

FAILED QUERIES

Baseline partitioned

benchmark query mean_duration std_dev

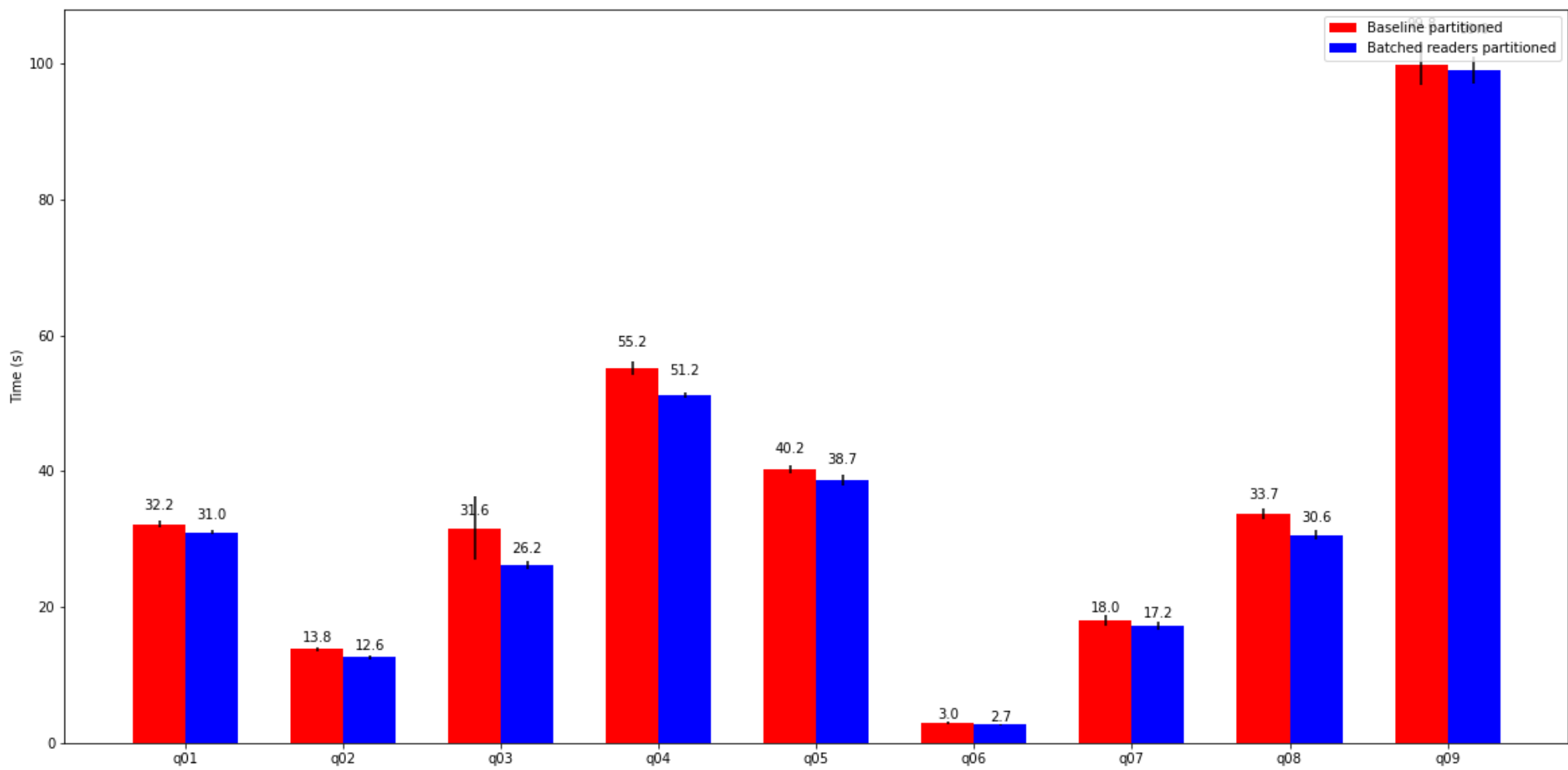
Batched readers partitioned

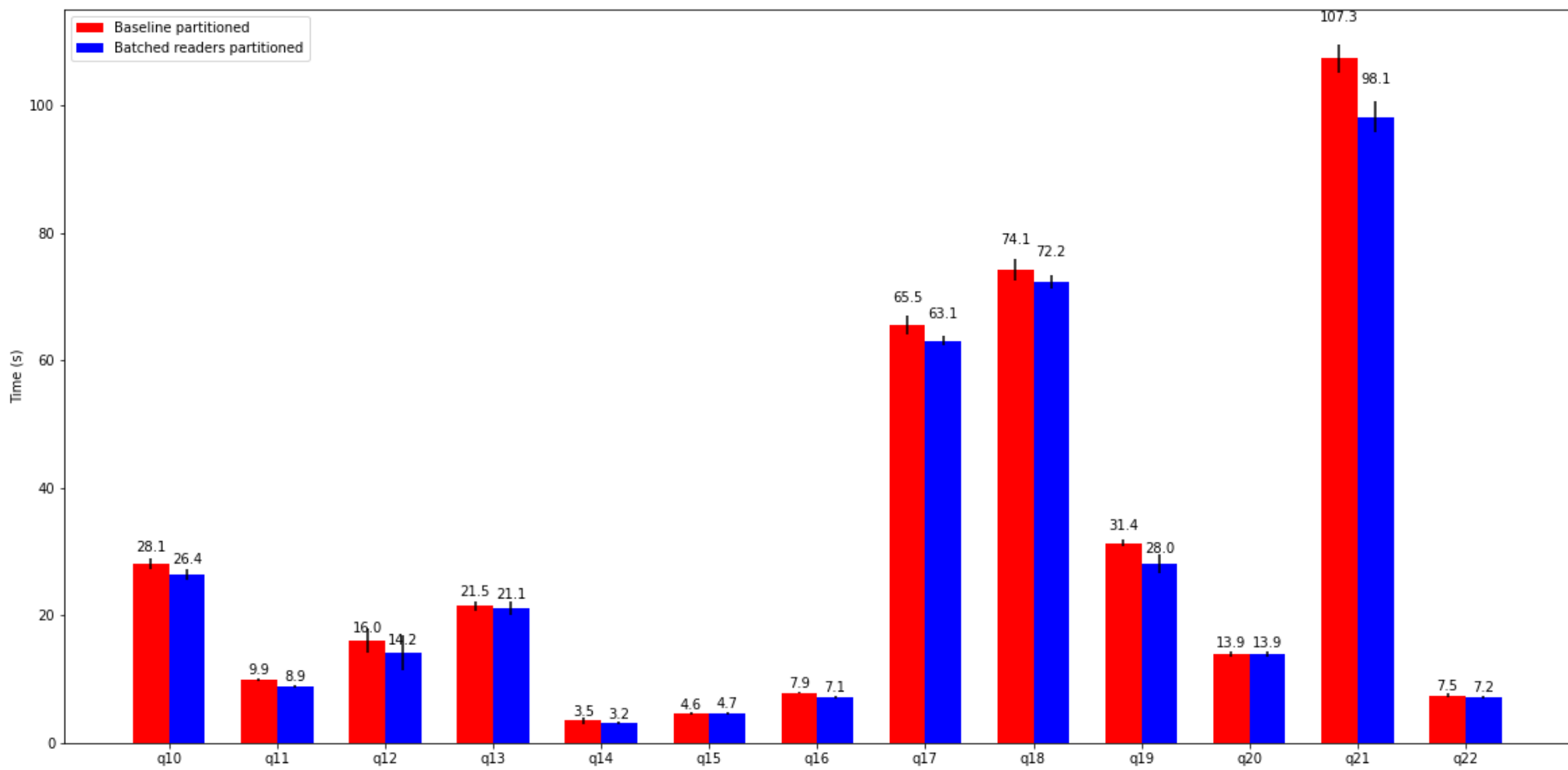
benchmark query mean_duration std_dev

SUMMARY

	label	TPCH wall time	TPC-DS wall time	TPCH CPU time	TPC-DS CPU time	TPCH physicalInputDataSize	TPC-DS physicalInputDataSize	TPCH peak memory	TPC-DS peak memory	TPCH planning time	TPC-DS planning time
0	Baseline partitioned	718.644833	1150.690667	83123.500000	130870.103333	1.287 TiB	1.181 TiB	1.248 TiB	1.007 TiB	5.696578	64.051018
1	Batched readers partitioned	677.096667	1037.637000	75583.200000	116987.498333	1.287 TiB	1.181 TiB	1.254 TiB	0.994 TiB	5.647632	64.870322

TPC-H Comparison (DURATION)

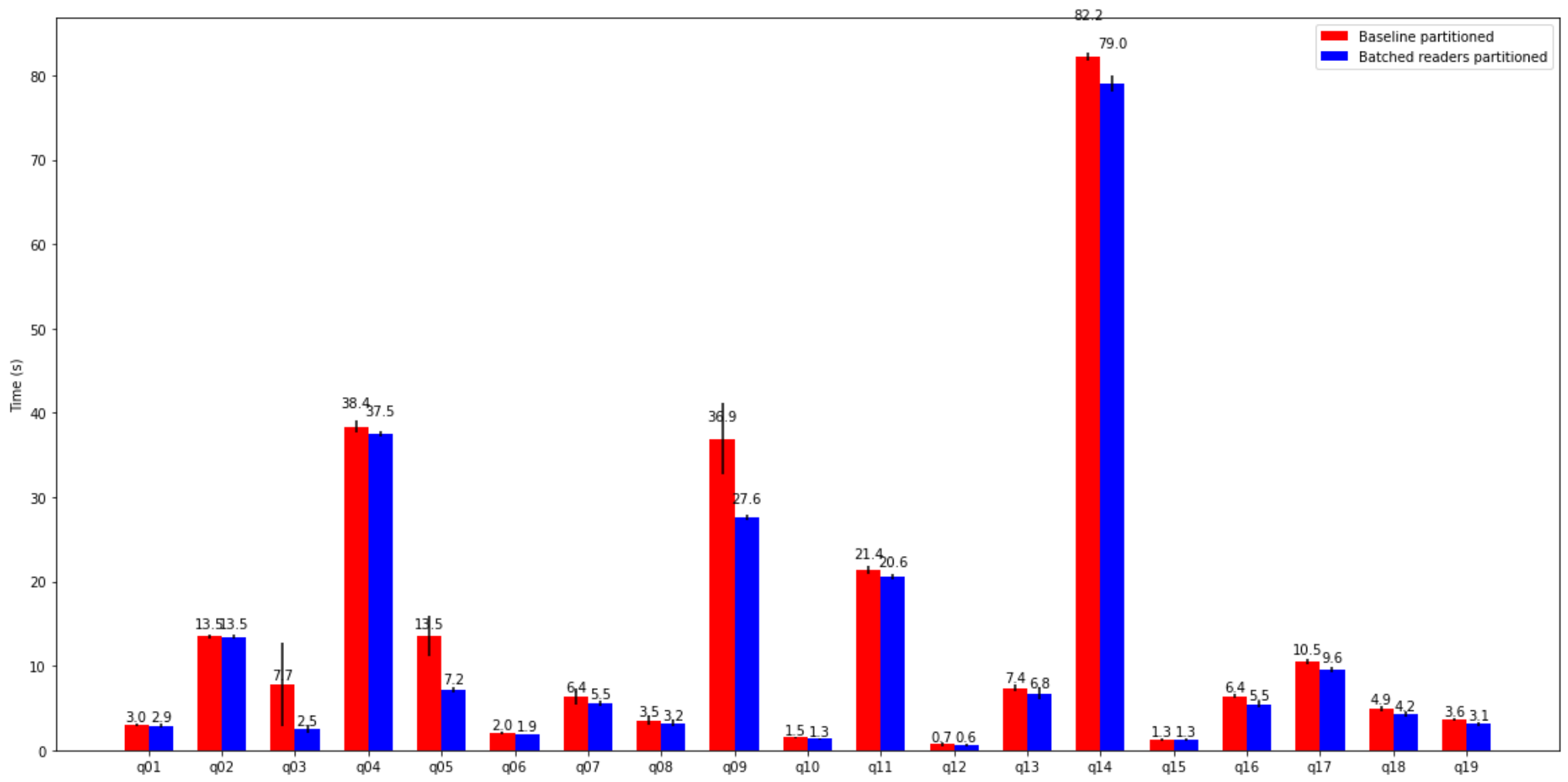


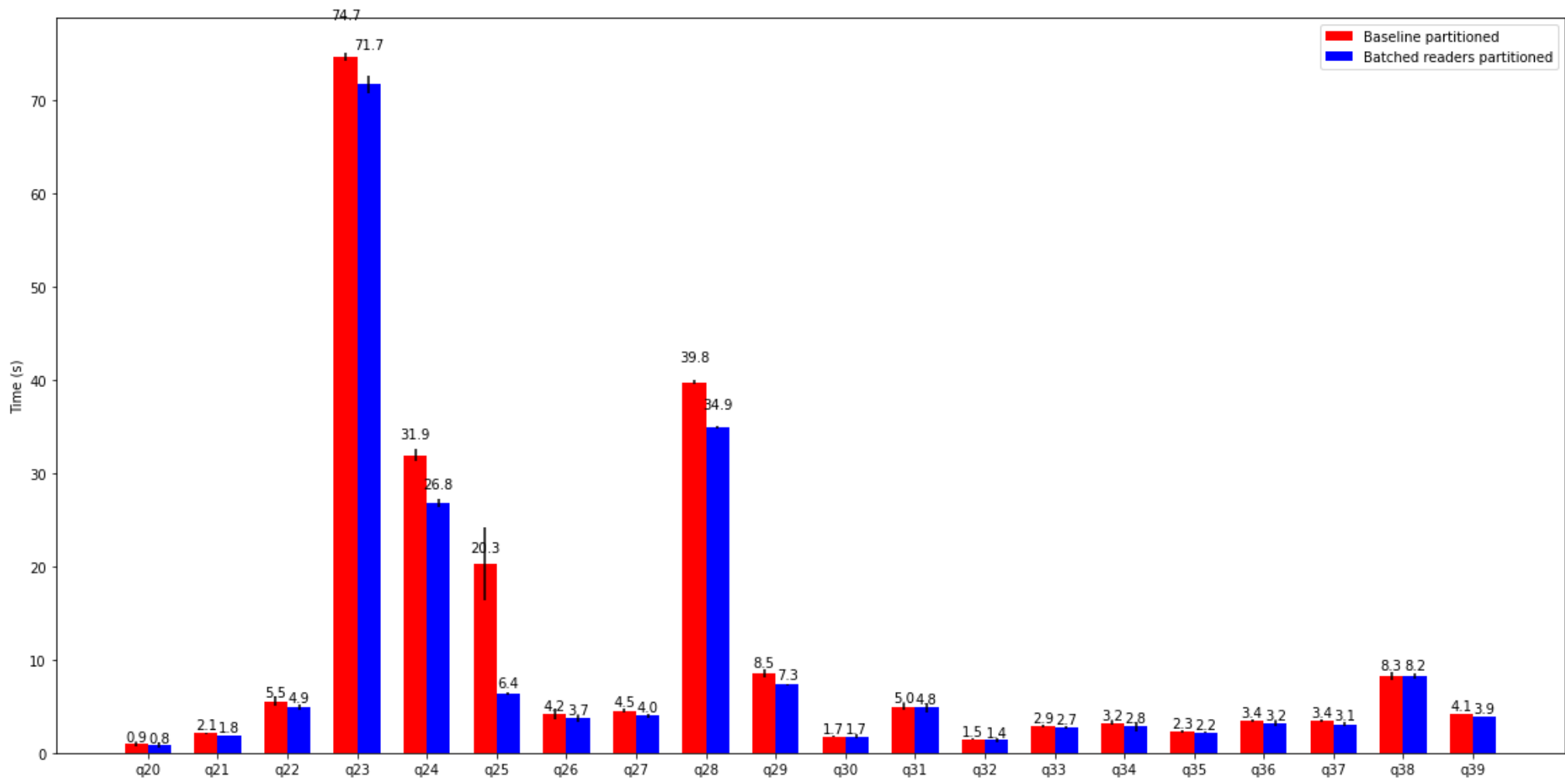


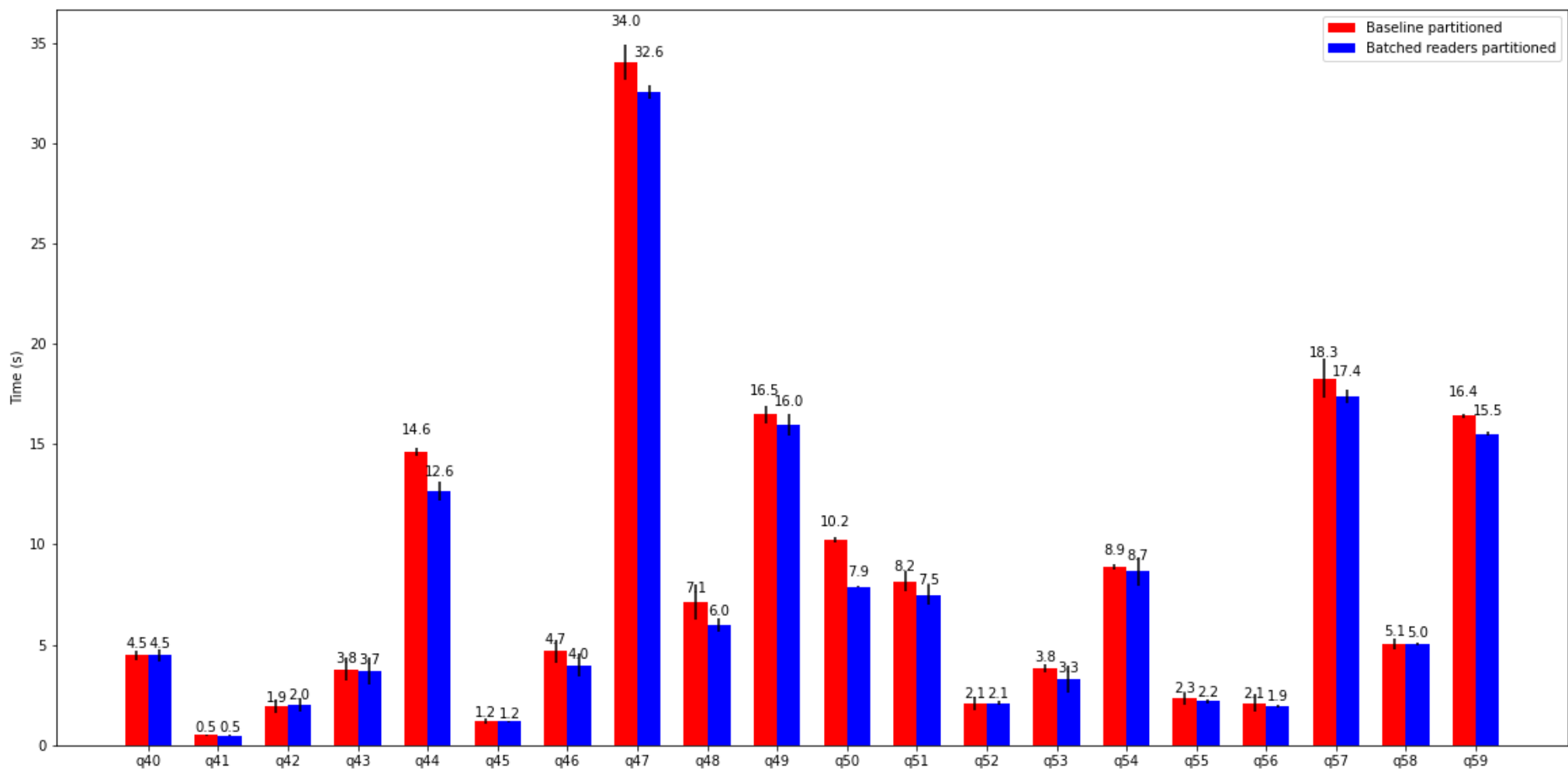
query	Baseline partitioned mean	Baseline partitioned std.dev	Batched readers partitioned mean	Batched readers partitioned std.dev
0 presto/tpch: q01	32.220667	0.459438	31.032333	0.349029
1 presto/tpch: q02	13.810333	0.280030	12.583667	0.342554
2 presto/tpch: q03	31.609167	4.706915	26.174833	0.596518
3 presto/tpch: q04	55.153667	1.062218	51.194833	0.488944
4 presto/tpch: q05	40.220500	0.632080	38.650500	0.738405
5 presto/tpch: q06	2.962833	0.173633	2.691000	0.102684
6 presto/tpch: q07	17.965000	0.789268	17.245833	0.543585
7 presto/tpch: q08	33.736667	0.786307	30.563833	0.707358
8 presto/tpch: q09	99.781333	3.017109	98.963167	1.976854

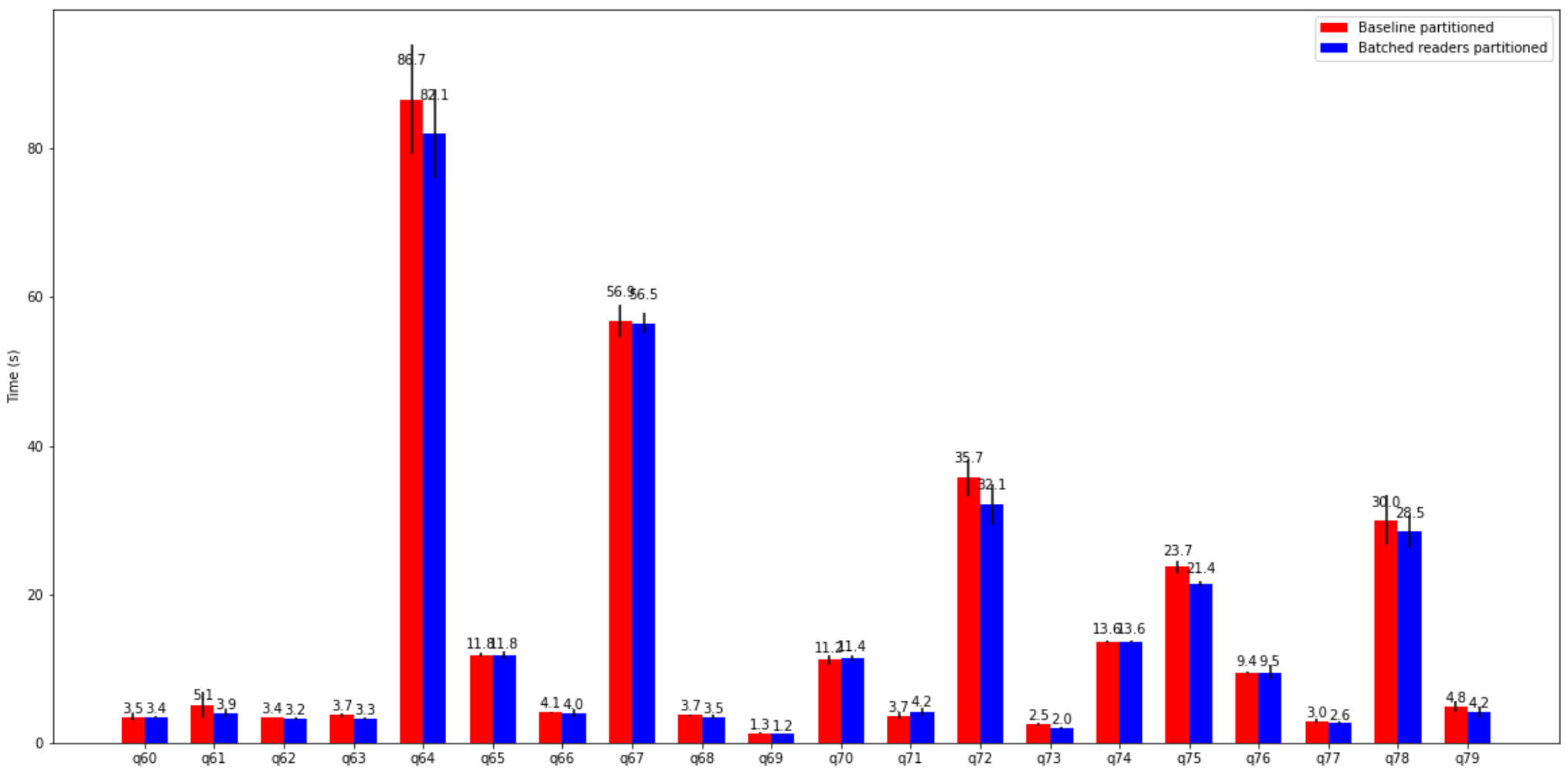
	query	Baseline partitioned mean	Baseline partitioned std.dev	Batched readers partitioned mean	Batched readers partitioned std.dev
9	presto/tpch: q10	28.058000	0.836139	26.364000	0.910420
10	presto/tpch: q11	9.912167	0.262547	8.854833	0.274337
11	presto/tpch: q12	16.021000	1.936455	14.197500	2.737026
12	presto/tpch: q13	21.488333	0.717033	21.054333	1.106529
13	presto/tpch: q14	3.517500	0.557818	3.184333	0.240470
14	presto/tpch: q15	4.623667	0.215115	4.704500	0.217499
15	presto/tpch: q16	7.886167	0.125206	7.142667	0.164322
16	presto/tpch: q17	65.453833	1.499225	63.067833	0.809181
17	presto/tpch: q18	74.144833	1.656718	72.187167	1.059767
18	presto/tpch: q19	31.359833	0.463127	28.011500	1.487123
19	presto/tpch: q20	13.936000	0.465400	13.887167	0.366166
20	presto/tpch: q21	107.323333	2.168123	98.146500	2.472958
21	presto/tpch: q22	7.460000	0.284891	7.194333	0.258904

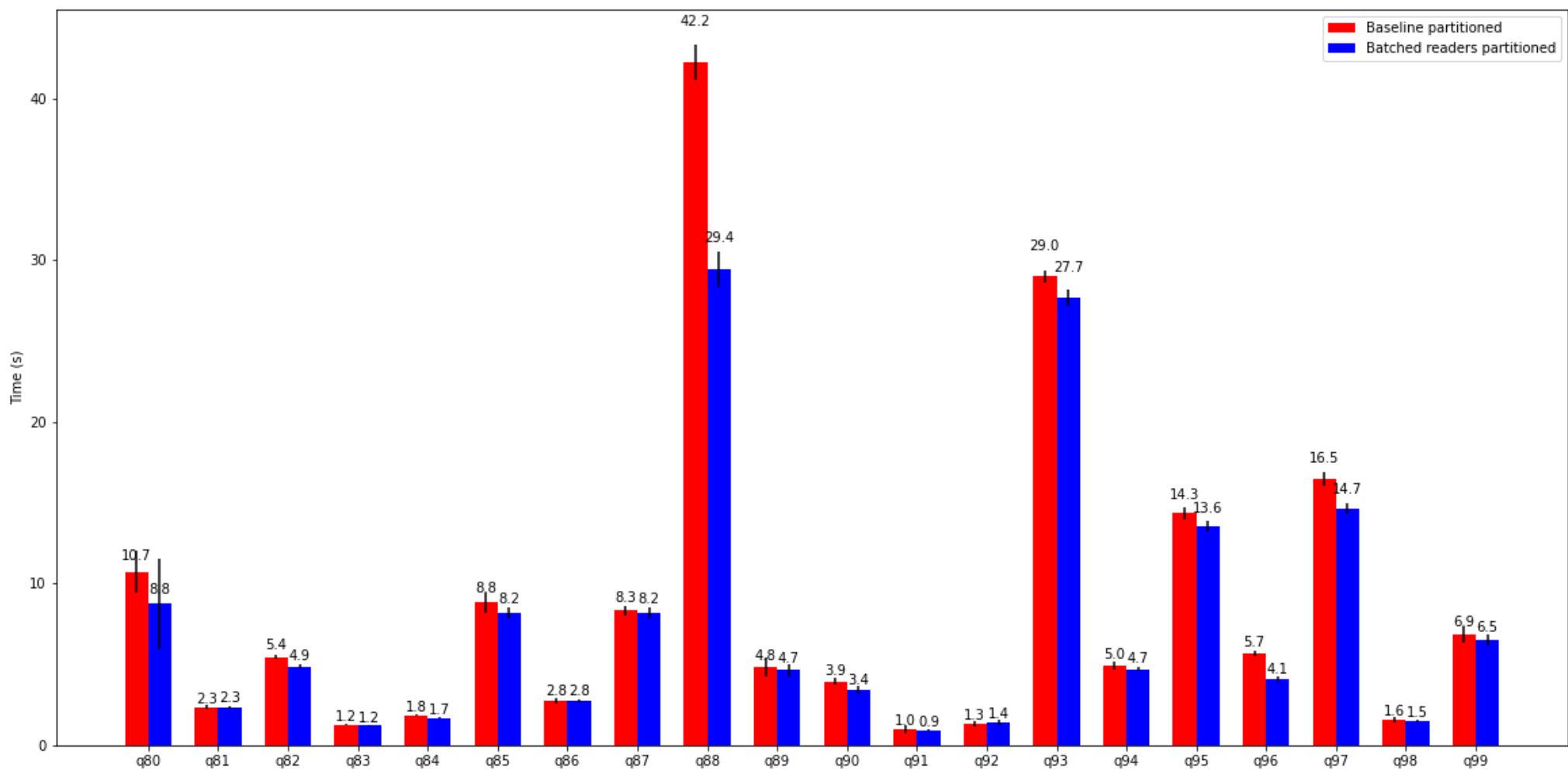
TPC-DS Comparison (DURATION)

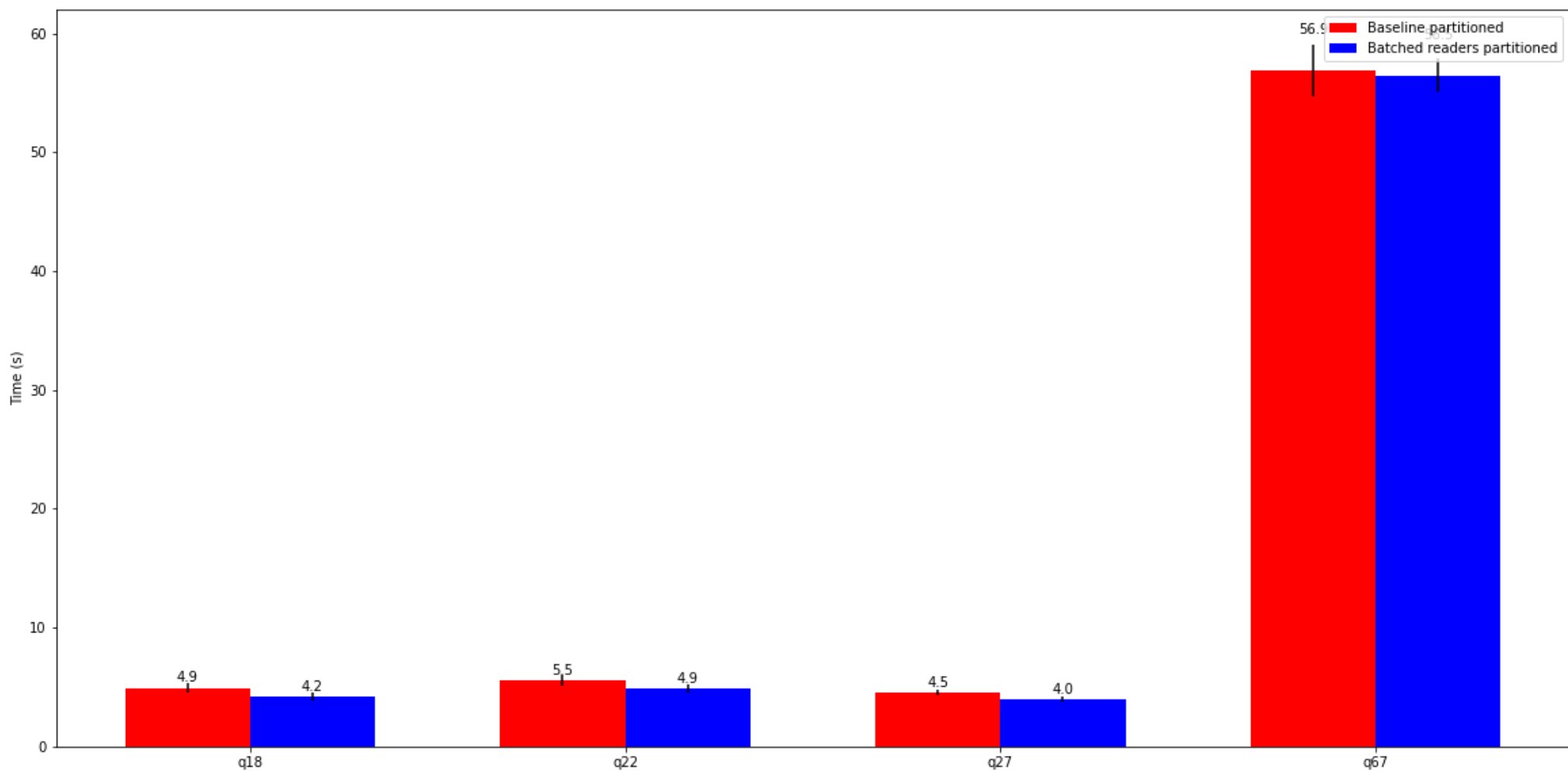












query	Baseline partitioned mean	Baseline partitioned std.dev	Batched readers partitioned mean	Batched readers partitioned std.dev
0 presto/tpcds: q01	2.993167	0.109531	2.911000	0.194540
1 presto/tpcds: q02	13.487000	0.228462	13.459833	0.188870
2 presto/tpcds: q03	7.747333	4.974502	2.516000	0.550094
3 presto/tpcds: q04	38.384000	0.660539	37.481500	0.313160
4 presto/tpcds: q05	13.495667	2.385943	7.210500	0.338302
5 presto/tpcds: q06	2.040333	0.141525	1.887333	0.036566
6 presto/tpcds: q07	6.383333	1.008824	5.545000	0.375841
7 presto/tpcds: q08	3.538833	0.570947	3.202333	0.411012
8 presto/tpcds: q09	36.918833	4.208265	27.649000	0.354961

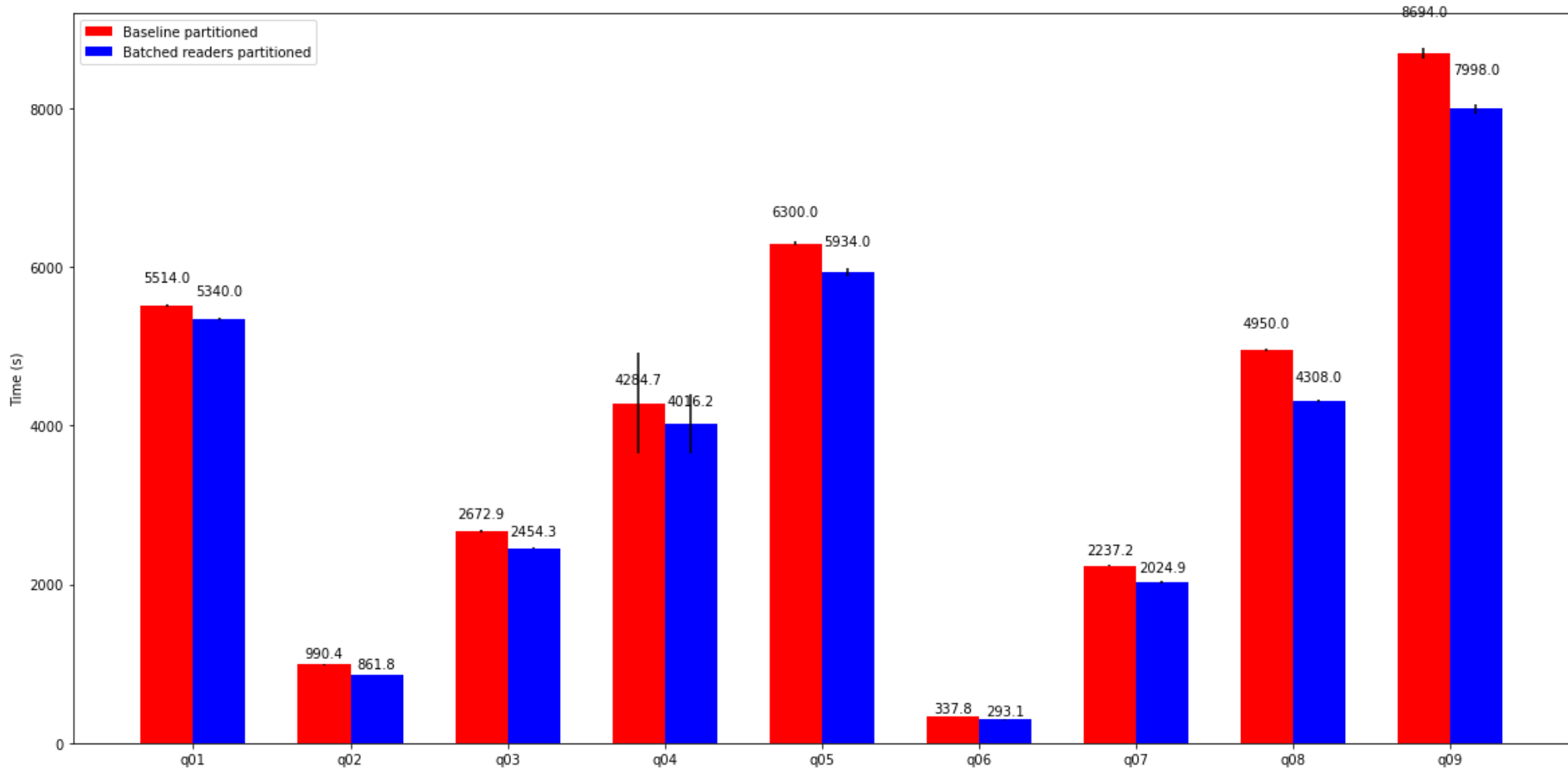
	query	Baseline partitioned mean	Baseline partitioned std.dev	Batched readers partitioned mean	Batched readers partitioned std.dev
9	presto/tpcds: q10	1.499000	0.142349	1.336667	0.093869
10	presto/tpcds: q11	21.406333	0.433174	20.552833	0.268448
11	presto/tpcds: q12	0.733333	0.242676	0.649667	0.181979
12	presto/tpcds: q13	7.364333	0.355110	6.755167	0.701668
13	presto/tpcds: q14	82.220333	0.486496	79.008667	0.924565
14	presto/tpcds: q15	1.291667	0.191843	1.266500	0.217212
15	presto/tpcds: q16	6.397167	0.270605	5.478667	0.412965
16	presto/tpcds: q17	10.523167	0.309848	9.608667	0.297872
17	presto/tpcds: q18	4.922000	0.369140	4.231000	0.348544
18	presto/tpcds: q19	3.566833	0.157083	3.122833	0.243381
19	presto/tpcds: q20	0.938333	0.253993	0.827333	0.270545
20	presto/tpcds: q21	2.131167	0.064241	1.838167	0.049004
21	presto/tpcds: q22	5.541667	0.462380	4.887000	0.341943
22	presto/tpcds: q23	74.681667	0.422598	71.736500	0.909541
23	presto/tpcds: q24	31.909333	0.657396	26.833667	0.417766
24	presto/tpcds: q25	20.271333	3.882315	6.389167	0.127965
25	presto/tpcds: q26	4.159833	0.537987	3.689333	0.335636
26	presto/tpcds: q27	4.490667	0.233885	3.976667	0.265503
27	presto/tpcds: q28	39.764667	0.233684	34.934000	0.139435
28	presto/tpcds: q29	8.488000	0.461764	7.321333	0.080029
29	presto/tpcds: q30	1.729333	0.060748	1.736000	0.211301
30	presto/tpcds: q31	4.956167	0.382716	4.846500	0.475641
31	presto/tpcds: q32	1.461500	0.061964	1.364000	0.234745
32	presto/tpcds: q33	2.918000	0.128599	2.744333	0.097592
33	presto/tpcds: q34	3.200167	0.251629	2.819000	0.475045
34	presto/tpcds: q35	2.292833	0.111829	2.192667	0.078973
35	presto/tpcds: q36	3.440333	0.150485	3.163167	0.353109
36	presto/tpcds: q37	3.415667	0.130402	3.086667	0.154295

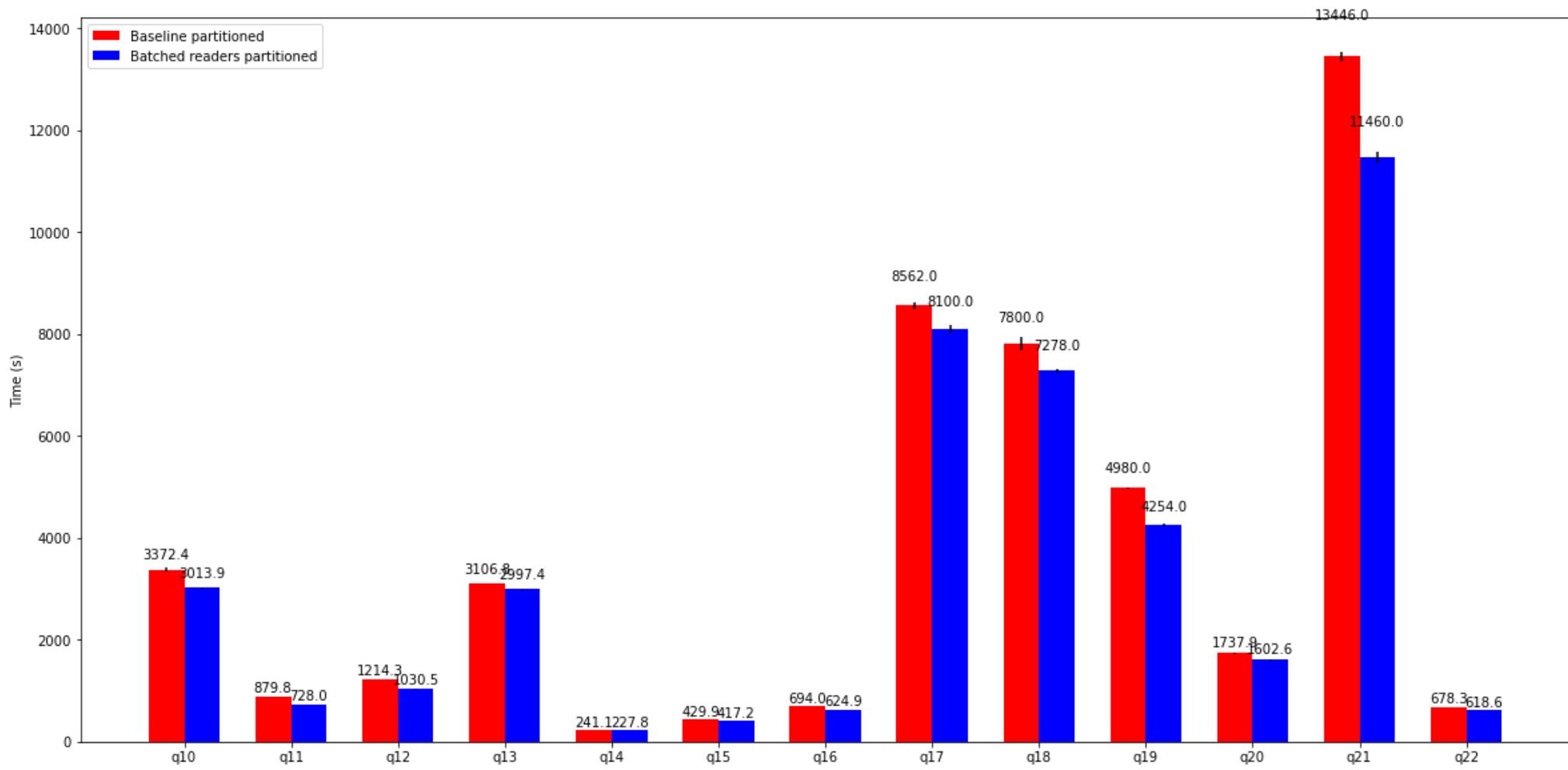
	query	Baseline partitioned mean	Baseline partitioned std.dev	Batched readers partitioned mean	Batched readers partitioned std.dev
37	presto/tpcds: q38	8.277833	0.403037	8.243333	0.287821
38	presto/tpcds: q39	4.147167	0.039214	3.865833	0.041087
39	presto/tpcds: q40	4.495000	0.244167	4.480667	0.307272
40	presto/tpcds: q41	0.503667	0.035730	0.479333	0.017716
41	presto/tpcds: q42	1.931167	0.329538	2.011833	0.319720
42	presto/tpcds: q43	3.788333	0.571536	3.700833	0.676469
43	presto/tpcds: q44	14.608333	0.192105	12.644667	0.481144
44	presto/tpcds: q45	1.210667	0.130928	1.168833	0.031833
45	presto/tpcds: q46	4.690833	0.561396	3.974333	0.577184
46	presto/tpcds: q47	34.022000	0.886463	32.553500	0.352790
47	presto/tpcds: q48	7.141500	0.870094	6.017333	0.333304
48	presto/tpcds: q49	16.480500	0.440565	15.956667	0.549824
49	presto/tpcds: q50	10.234167	0.167159	7.901667	0.057819
50	presto/tpcds: q51	8.164167	0.501981	7.476500	0.508557
51	presto/tpcds: q52	2.097167	0.327606	2.105667	0.121862
52	presto/tpcds: q53	3.816000	0.205963	3.319667	0.673404
53	presto/tpcds: q54	8.905333	0.144586	8.657833	0.719720
54	presto/tpcds: q55	2.335500	0.313679	2.192333	0.118167
55	presto/tpcds: q56	2.093333	0.426051	1.948167	0.076248
56	presto/tpcds: q57	18.292667	0.955890	17.389833	0.321982
57	presto/tpcds: q58	5.057333	0.252683	5.023333	0.061957
58	presto/tpcds: q59	16.434500	0.100516	15.511000	0.098145
59	presto/tpcds: q60	3.481000	0.474742	3.404000	0.206831
60	presto/tpcds: q61	5.132500	1.646829	3.918167	0.558320
61	presto/tpcds: q62	3.375667	0.041544	3.218833	0.180866
62	presto/tpcds: q63	3.696500	0.273629	3.277167	0.226725
63	presto/tpcds: q64	86.675833	7.350445	82.071000	6.052661
64	presto/tpcds: q65	11.773833	0.275296	11.790167	0.509195

	query	Baseline partitioned mean	Baseline partitioned std.dev	Batched readers partitioned mean	Batched readers partitioned std.dev
65	presto/tpcds: q66	4.100333	0.125235	3.961167	0.534173
66	presto/tpcds: q67	56.860500	2.176003	56.478167	1.386139
67	presto/tpcds: q68	3.710833	0.091866	3.455833	0.306650
68	presto/tpcds: q69	1.313667	0.121070	1.163333	0.081950
69	presto/tpcds: q70	11.162667	0.596326	11.370000	0.359689
70	presto/tpcds: q71	3.668833	0.382472	4.228500	0.546571
71	presto/tpcds: q72	35.653500	2.447970	32.111333	2.653397
72	presto/tpcds: q73	2.503333	0.208387	1.999833	0.145673
73	presto/tpcds: q74	13.645333	0.210024	13.592167	0.159288
74	presto/tpcds: q75	23.705667	0.829968	21.410000	0.297848
75	presto/tpcds: q76	9.435667	0.150517	9.494667	1.049745
76	presto/tpcds: q77	2.954667	0.202657	2.618667	0.170509
77	presto/tpcds: q78	29.954000	3.368995	28.484333	2.199473
78	presto/tpcds: q79	4.814000	0.750392	4.201500	0.697155
79	presto/tpcds: q80	10.723500	1.271138	8.752167	2.798568
80	presto/tpcds: q81	2.331167	0.122974	2.337167	0.110973
81	presto/tpcds: q82	5.442167	0.125862	4.866833	0.147702
82	presto/tpcds: q83	1.246667	0.037420	1.202333	0.018737
83	presto/tpcds: q84	1.844667	0.034892	1.680167	0.065509
84	presto/tpcds: q85	8.828167	0.620403	8.196833	0.329732
85	presto/tpcds: q86	2.759500	0.181466	2.750333	0.114252
86	presto/tpcds: q87	8.310167	0.269557	8.176000	0.302968
87	presto/tpcds: q88	42.228667	1.083707	29.428833	1.058357
88	presto/tpcds: q89	4.826667	0.615309	4.662667	0.377205
89	presto/tpcds: q90	3.944500	0.190815	3.391000	0.243946
90	presto/tpcds: q91	1.023000	0.251301	0.930667	0.020314
91	presto/tpcds: q92	1.322667	0.208187	1.420333	0.154576
92	presto/tpcds: q93	28.981167	0.395483	27.689000	0.476328

	query	Baseline partitioned mean	Baseline partitioned std.dev	Batched readers partitioned mean	Batched readers partitioned std.dev
93	presto/tpcds: q94	4.955500	0.252149	4.703667	0.103192
94	presto/tpcds: q95	14.331167	0.370445	13.550333	0.309472
95	presto/tpcds: q96	5.661833	0.138973	4.085500	0.198041
96	presto/tpcds: q97	16.451667	0.405005	14.653500	0.343095
97	presto/tpcds: q98	1.566000	0.197858	1.491833	0.090323
98	presto/tpcds: q99	6.863000	0.497491	6.537167	0.326543

TPC-H Comparison (CPU)

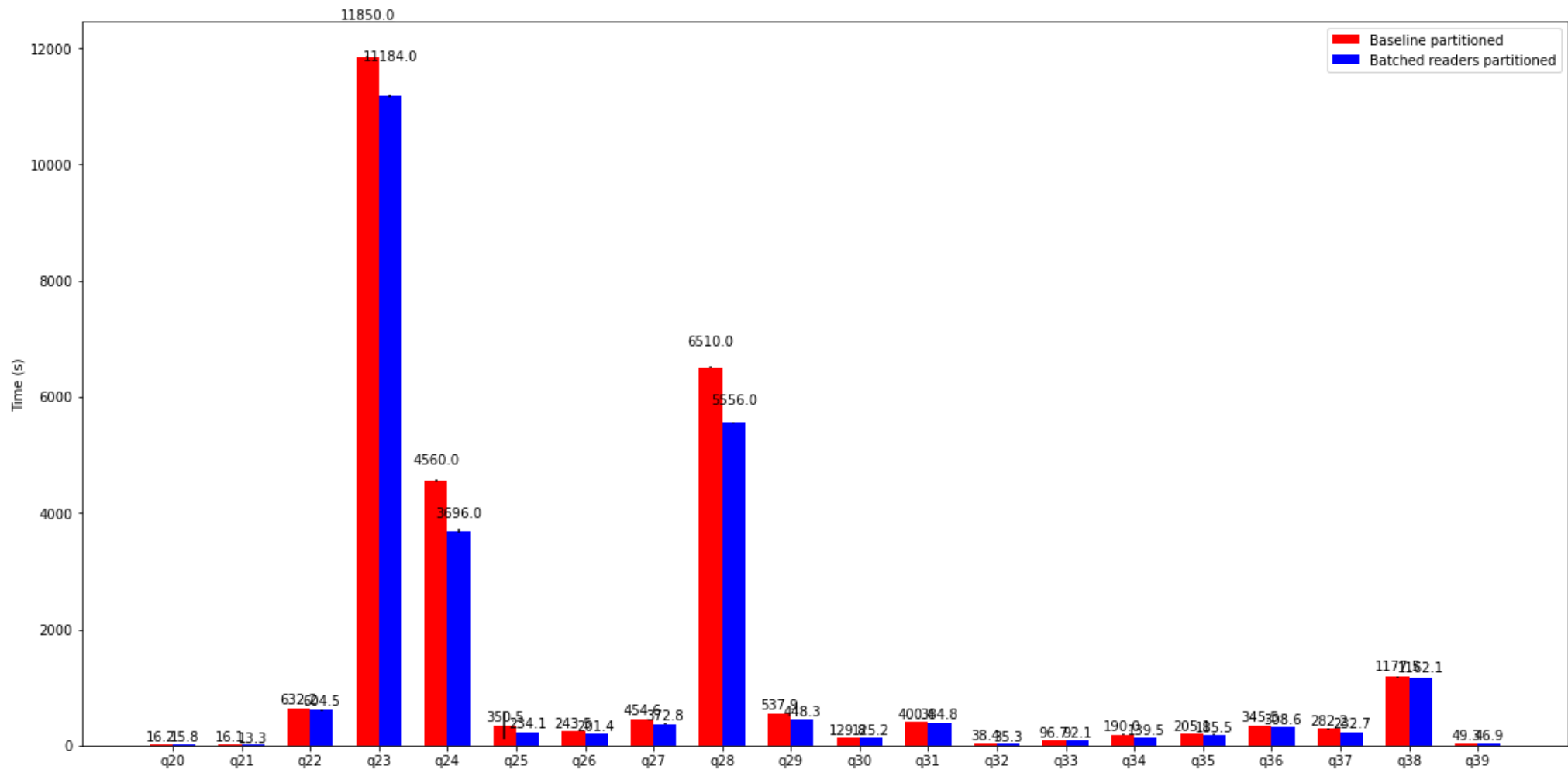


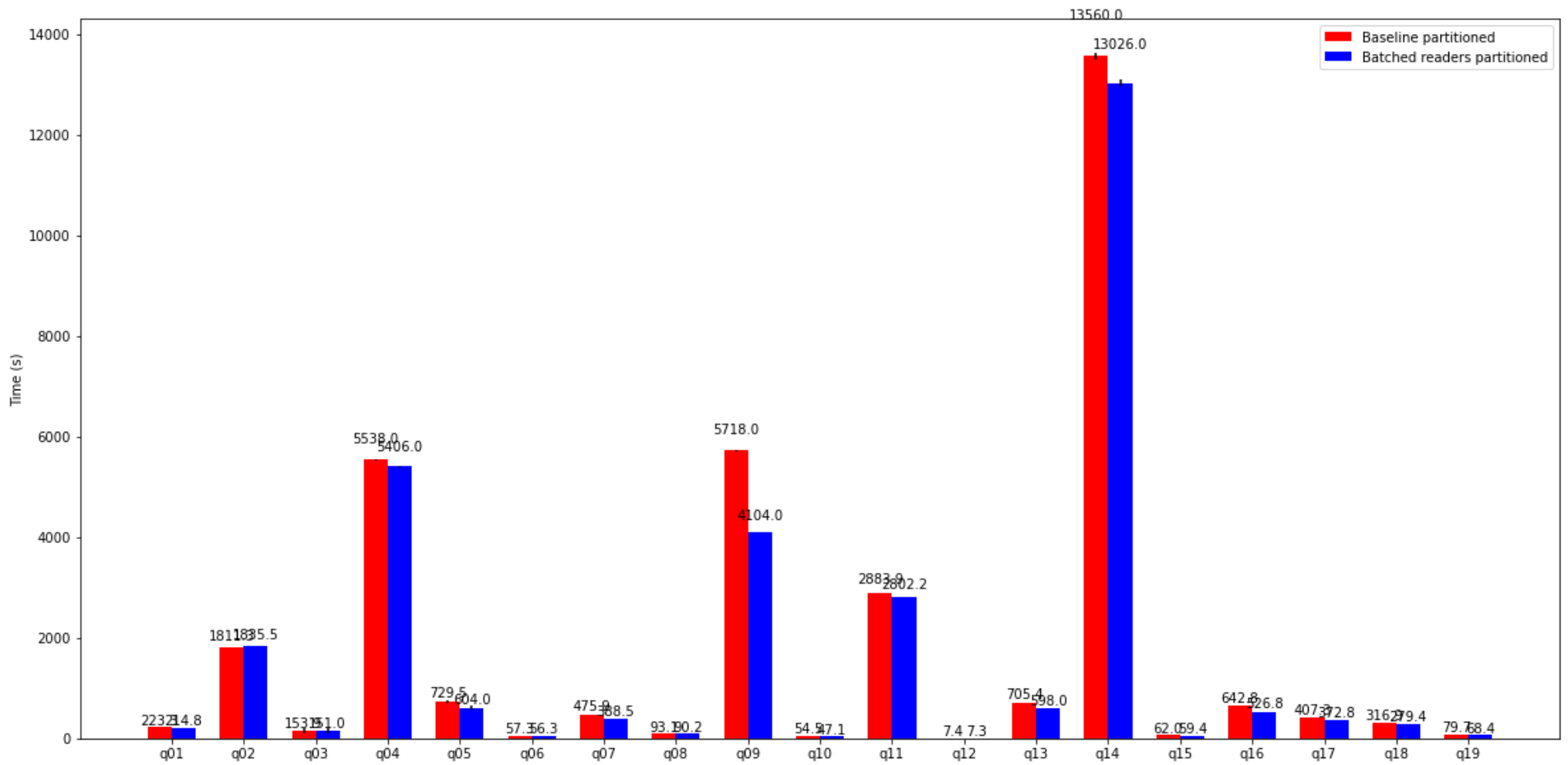


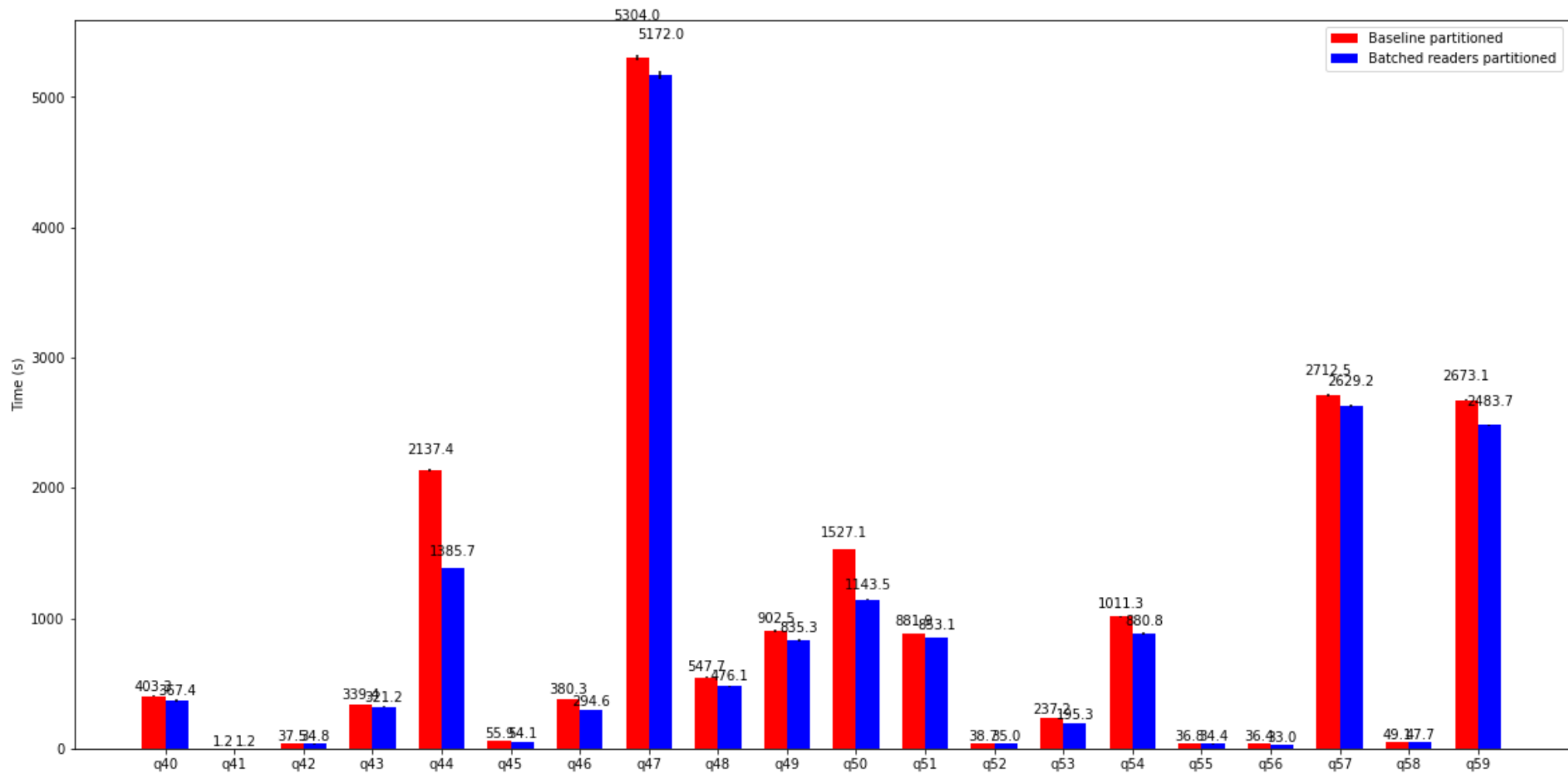
query	Baseline partitioned mean	Baseline partitioned std.dev	Batched readers partitioned mean	Batched readers partitioned std.dev
0 presto/tpch: q01	5514.0	14.696938	5340.0	18.590320
1 presto/tpch: q02	990.4	4.009988	861.8	4.219953
2 presto/tpch: q03	2672.9	18.318843	2454.3	5.171847
3 presto/tpch: q04	4284.7	633.425023	4016.2	372.240245
4 presto/tpch: q05	6300.0	22.768399	5934.0	47.849765
5 presto/tpch: q06	337.8	1.200000	293.1	0.501996
6 presto/tpch: q07	2237.2	9.507050	2024.9	11.246866
7 presto/tpch: q08	4950.0	19.718012	4308.0	18.590320
8 presto/tpch: q09	8694.0	67.349833	7998.0	62.006451

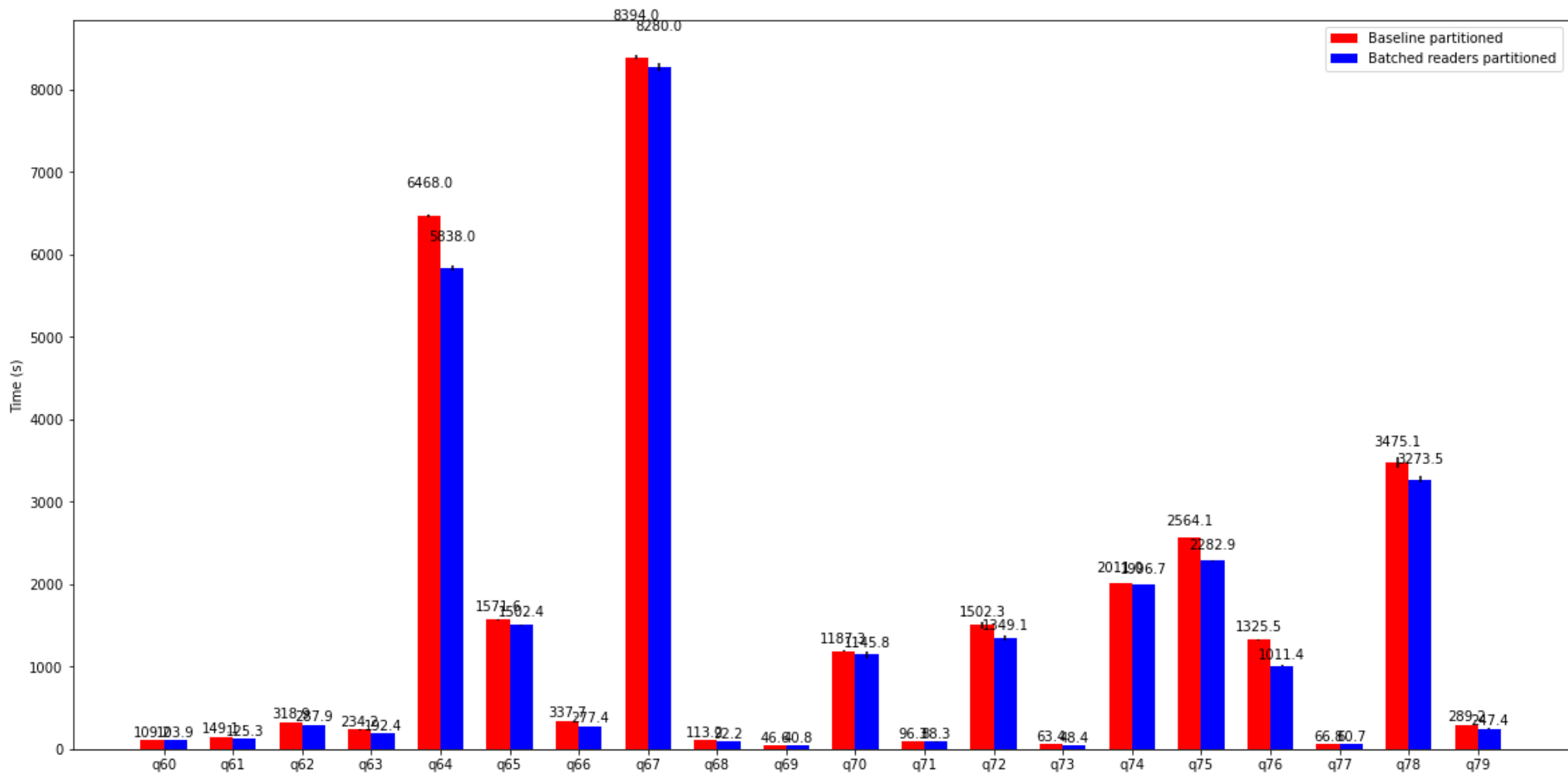
	query	Baseline partitioned mean	Baseline partitioned std.dev	Batched readers partitioned mean	Batched readers partitioned std.dev
9	presto/tpch: q10	3372.4	40.940347	3013.9	16.043316
10	presto/tpch: q11	879.8	1.766352	728.0	1.239355
11	presto/tpch: q12	1214.3	3.465833	1030.5	5.349766
12	presto/tpch: q13	3106.8	7.397297	2997.4	14.043931
13	presto/tpch: q14	241.1	1.628496	227.8	2.135416
14	presto/tpch: q15	429.9	1.056409	417.2	2.701111
15	presto/tpch: q16	694.0	2.507588	624.9	1.887856
16	presto/tpch: q17	8562.0	62.006451	8100.0	85.191549
17	presto/tpch: q18	7800.0	132.109046	7278.0	35.394915
18	presto/tpch: q19	4980.0	18.590320	4254.0	14.696938
19	presto/tpch: q20	1737.9	18.249274	1602.6	4.326662
20	presto/tpch: q21	13446.0	84.427484	11460.0	103.506522
21	presto/tpch: q22	678.3	1.686416	618.6	3.457166

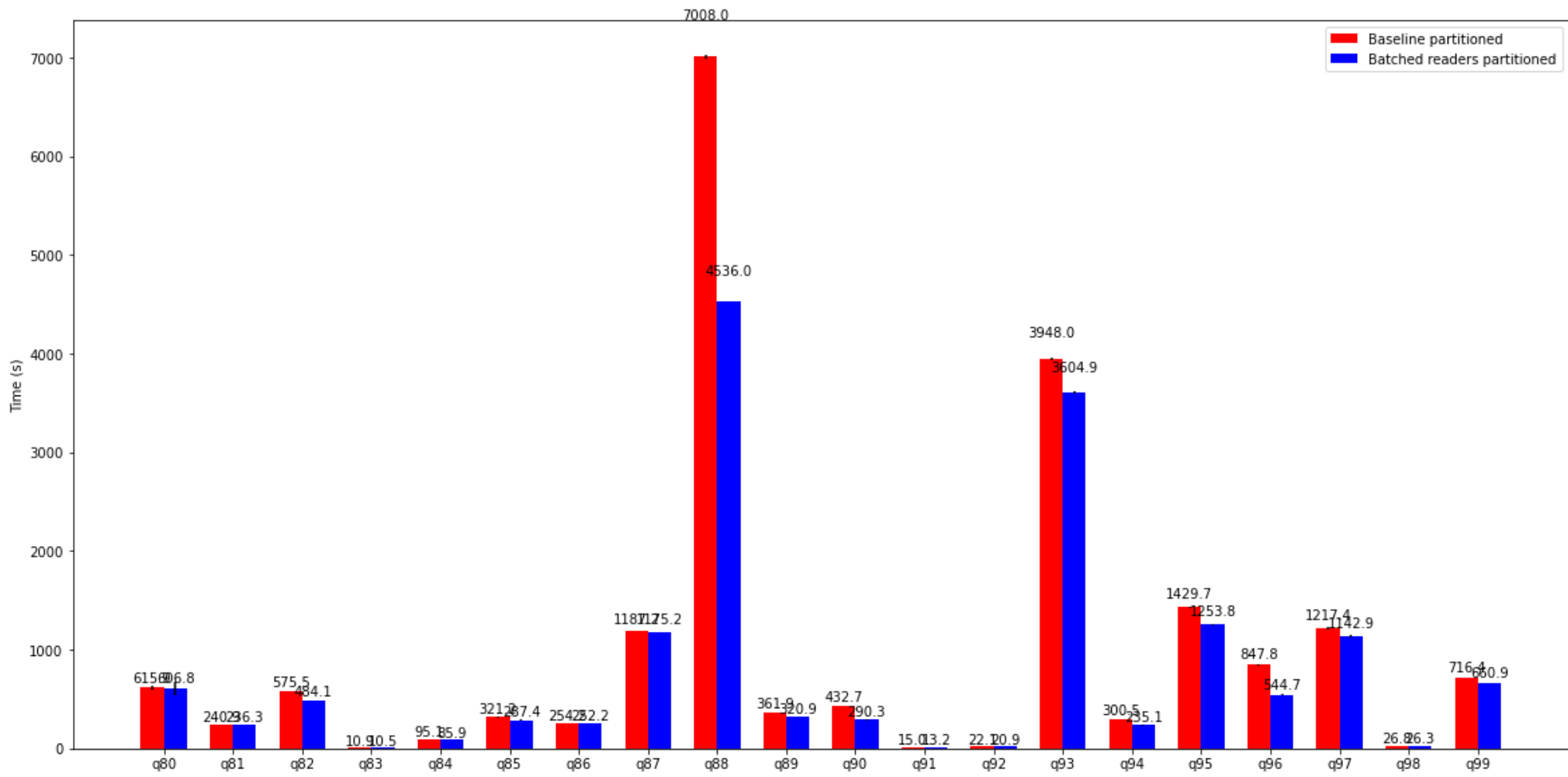
TPC-DS Comparison (CPU)

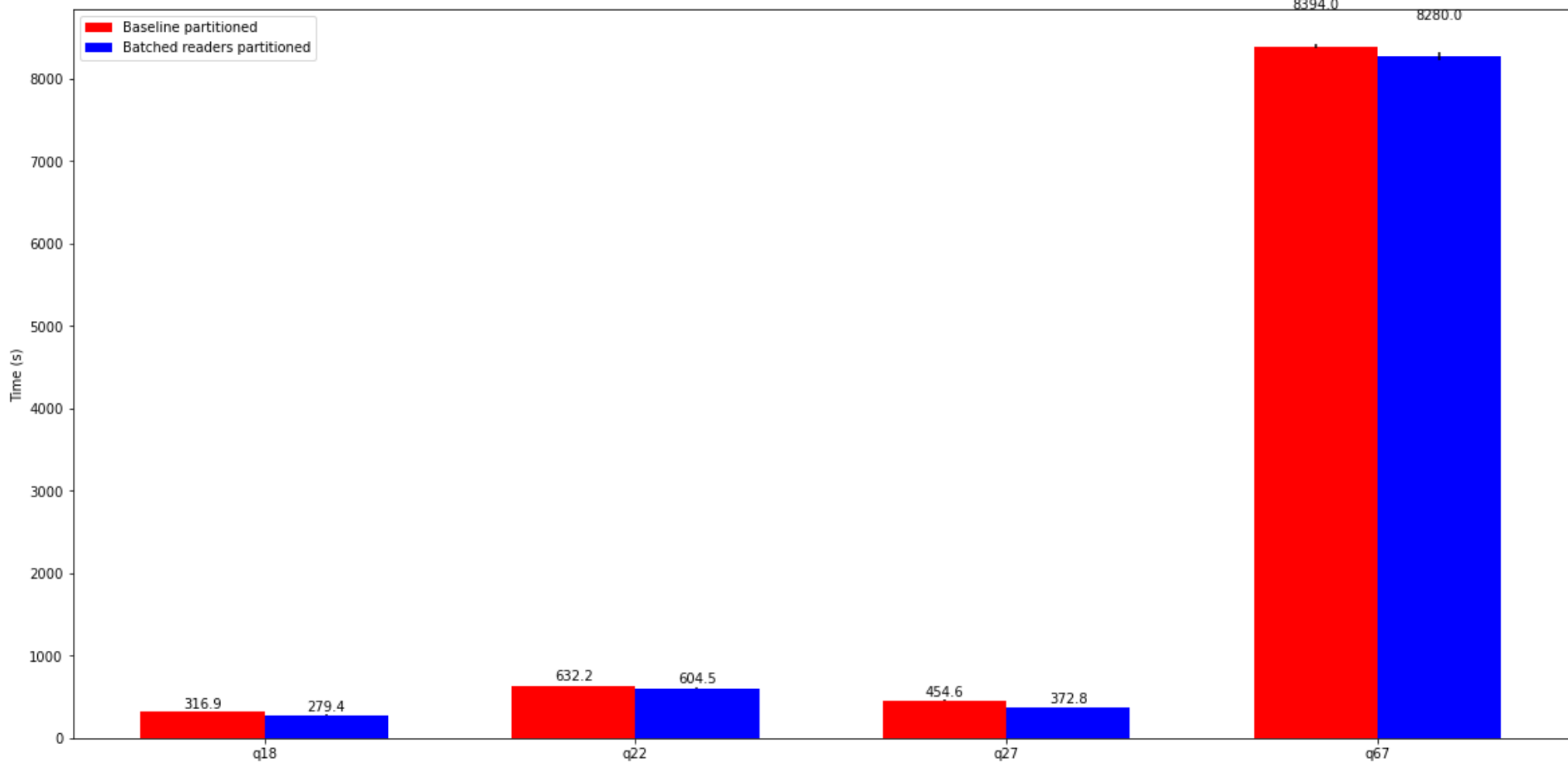












query	Baseline partitioned mean	Baseline partitioned std.dev	Batched readers partitioned mean	Batched readers partitioned std.dev
0 presto/tpcds: q01	223.300000	2.667583	214.800000	2.488373
1 presto/tpcds: q02	1811.300000	3.317228	1835.500000	2.973886
2 presto/tpcds: q03	153.900000	61.879463	151.000000	62.671333
3 presto/tpcds: q04	5538.000000	14.696938	5406.000000	14.696938
4 presto/tpcds: q05	729.500000	31.304632	604.000000	42.252385
5 presto/tpcds: q06	57.253333	0.159332	56.321667	0.597375
6 presto/tpcds: q07	475.900000	2.640455	388.500000	2.649528
7 presto/tpcds: q08	93.100000	1.100909	90.200000	1.501999

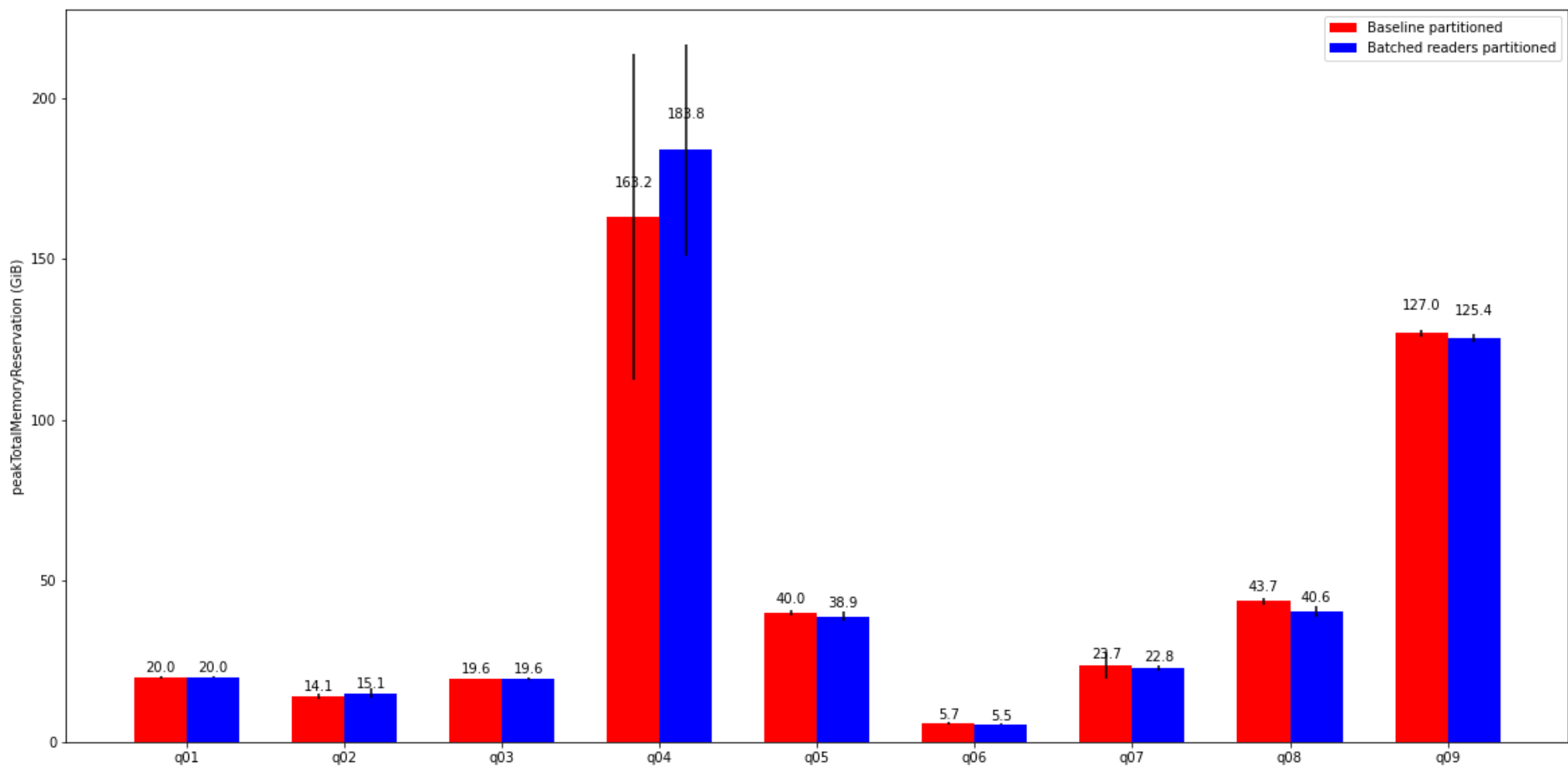
	query	Baseline partitioned mean	Baseline partitioned std.dev	Batched readers partitioned mean	Batched readers partitioned std.dev
8	presto/tpcds: q09	5718.000000	14.696938	4104.000000	0.000000
9	presto/tpcds: q10	54.536667	1.256577	47.070000	2.320784
10	presto/tpcds: q11	2883.900000	3.693779	2802.200000	5.813089
11	presto/tpcds: q12	7.413333	0.022509	7.283333	0.032660
12	presto/tpcds: q13	705.400000	4.098780	598.000000	3.027871
13	presto/tpcds: q14	13560.000000	58.787754	13026.000000	57.674951
14	presto/tpcds: q15	62.000000	0.309839	59.436667	0.057850
15	presto/tpcds: q16	642.800000	0.903327	526.800000	1.200000
16	presto/tpcds: q17	407.300000	3.317228	372.800000	2.201817
17	presto/tpcds: q18	316.900000	2.824889	279.400000	2.906544
18	presto/tpcds: q19	79.700000	1.389964	68.400000	0.379473
19	presto/tpcds: q20	16.155000	0.242714	15.796667	0.123882
20	presto/tpcds: q21	16.075000	0.065651	13.330000	0.104115
21	presto/tpcds: q22	632.200000	2.328948	604.500000	3.409985
22	presto/tpcds: q23	11850.000000	14.696938	11184.000000	29.393877
23	presto/tpcds: q24	4560.000000	18.590320	3696.000000	29.393877
24	presto/tpcds: q25	350.500000	238.651436	234.100000	0.451664
25	presto/tpcds: q26	243.500000	1.583667	201.400000	1.050714
26	presto/tpcds: q27	454.600000	5.911345	372.800000	1.117139
27	presto/tpcds: q28	6510.000000	14.696938	5556.000000	18.590320
28	presto/tpcds: q29	537.900000	0.501996	448.300000	0.589915
29	presto/tpcds: q30	129.800000	0.819756	125.200000	0.726636
30	presto/tpcds: q31	400.400000	1.884675	384.800000	5.624233
31	presto/tpcds: q32	38.423333	0.966347	35.270000	0.466776
32	presto/tpcds: q33	96.700000	0.589915	92.100000	0.501996
33	presto/tpcds: q34	190.000000	1.806654	139.500000	1.728583
34	presto/tpcds: q35	205.100000	1.913113	185.500000	6.182233
35	presto/tpcds: q36	345.500000	2.321207	308.600000	0.489898

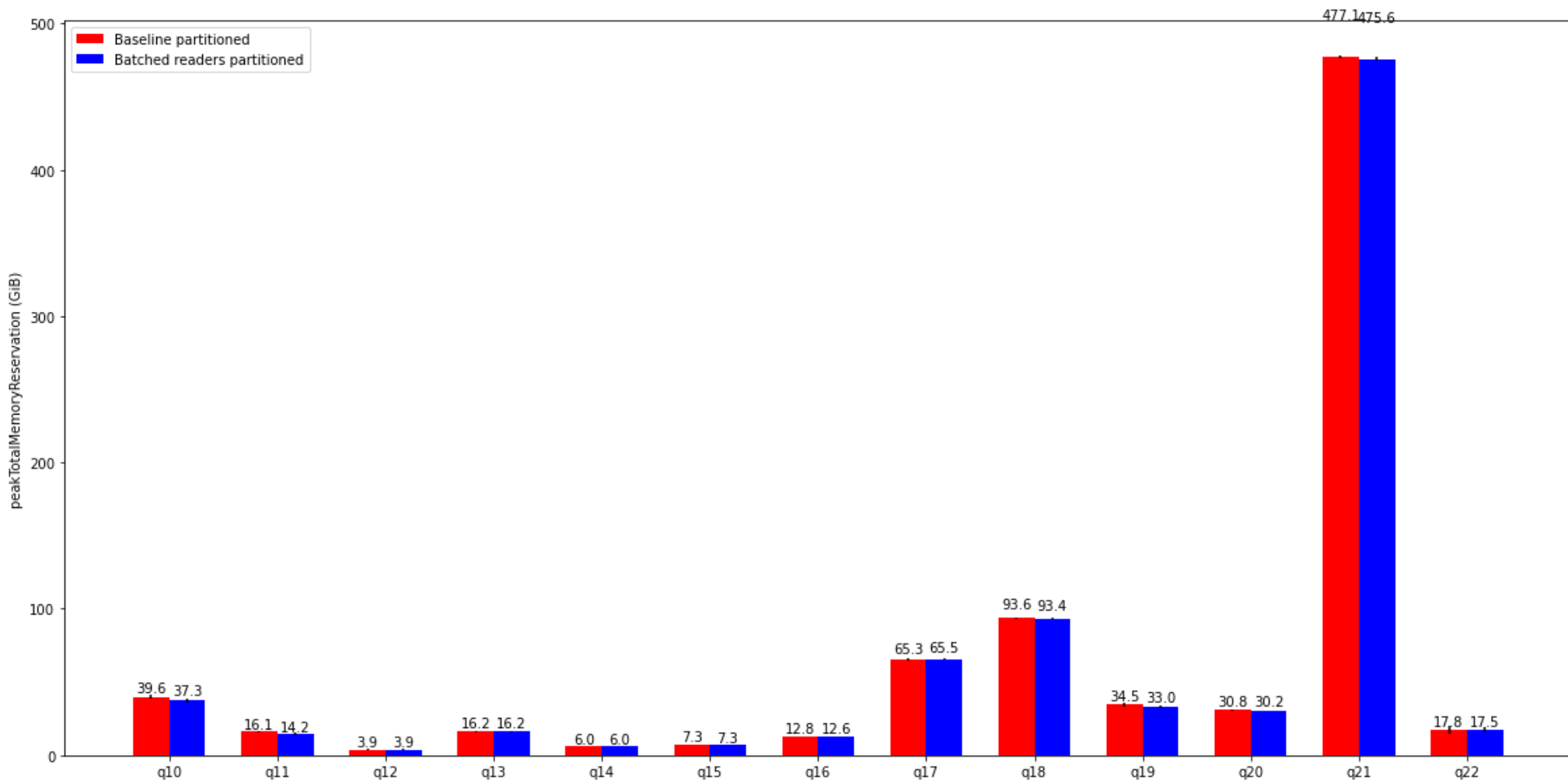
	query	Baseline partitioned mean	Baseline partitioned std.dev	Batched readers partitioned mean	Batched readers partitioned std.dev
36	presto/tpcds: q37	282.200000	0.619677	232.700000	0.244949
37	presto/tpcds: q38	1177.500000	3.100323	1162.100000	3.115766
38	presto/tpcds: q39	49.343333	0.343375	46.926667	0.311748
39	presto/tpcds: q40	403.300000	8.631802	367.400000	6.623594
40	presto/tpcds: q41	1.180000	0.006325	1.160000	0.010954
41	presto/tpcds: q42	37.543333	0.585992	34.783333	0.974385
42	presto/tpcds: q43	339.400000	1.402854	321.200000	1.350555
43	presto/tpcds: q44	2137.400000	10.130350	1385.700000	4.870729
44	presto/tpcds: q45	55.900000	0.276984	54.123333	0.242789
45	presto/tpcds: q46	380.300000	2.529031	294.600000	1.738965
46	presto/tpcds: q47	5304.000000	18.590320	5172.000000	29.393877
47	presto/tpcds: q48	547.700000	2.500400	476.100000	2.981946
48	presto/tpcds: q49	902.500000	10.634848	835.300000	9.905756
49	presto/tpcds: q50	1527.100000	2.258318	1143.500000	1.628496
50	presto/tpcds: q51	881.900000	0.701427	853.100000	0.883176
51	presto/tpcds: q52	38.710000	0.611163	35.041667	0.398869
52	presto/tpcds: q53	237.200000	0.979796	195.300000	0.629285
53	presto/tpcds: q54	1011.300000	9.507681	880.800000	6.997142
54	presto/tpcds: q55	36.828333	0.690258	34.361667	1.456701
55	presto/tpcds: q56	36.446667	0.455617	33.038333	0.187768
56	presto/tpcds: q57	2712.500000	11.259663	2629.200000	11.812536
57	presto/tpcds: q58	49.091667	0.557509	47.701667	0.814774
58	presto/tpcds: q59	2673.100000	4.745946	2483.700000	5.336291
59	presto/tpcds: q60	109.200000	1.003992	103.900000	1.100909
60	presto/tpcds: q61	149.100000	1.962651	125.300000	4.415880
61	presto/tpcds: q62	318.900000	1.962651	287.900000	2.289978
62	presto/tpcds: q63	234.200000	1.639512	192.400000	0.489898
63	presto/tpcds: q64	6468.000000	18.590320	5838.000000	27.099815

	query	Baseline partitioned mean	Baseline partitioned std.dev	Batched readers partitioned mean	Batched readers partitioned std.dev
64	presto/tpcds: q65	1571.600000	10.930325	1502.400000	8.085543
65	presto/tpcds: q66	337.700000	0.701427	277.400000	0.619677
66	presto/tpcds: q67	8394.000000	27.099815	8280.000000	45.536798
67	presto/tpcds: q68	113.200000	0.309839	92.200000	0.979796
68	presto/tpcds: q69	46.578333	0.723752	40.758333	0.397110
69	presto/tpcds: q70	1187.300000	9.905756	1145.800000	36.954675
70	presto/tpcds: q71	96.300000	2.268920	88.300000	3.706751
71	presto/tpcds: q72	1502.300000	36.647019	1349.100000	34.641882
72	presto/tpcds: q73	63.400000	0.619677	48.375000	0.566842
73	presto/tpcds: q74	2011.000000	5.239847	1996.700000	5.465162
74	presto/tpcds: q75	2564.100000	2.509980	2282.900000	3.465833
75	presto/tpcds: q76	1325.500000	3.229241	1011.400000	9.951080
76	presto/tpcds: q77	66.800000	0.619677	60.691667	0.467351
77	presto/tpcds: q78	3475.100000	66.033173	3273.500000	46.339918
78	presto/tpcds: q79	289.200000	1.200000	247.400000	2.727636
79	presto/tpcds: q80	615.900000	18.042949	606.800000	63.086988
80	presto/tpcds: q81	240.900000	1.056409	236.300000	0.883176
81	presto/tpcds: q82	575.500000	1.224745	484.100000	0.589915
82	presto/tpcds: q83	10.856667	0.286333	10.526667	0.255003
83	presto/tpcds: q84	95.100000	0.328634	85.900000	0.244949
84	presto/tpcds: q85	321.200000	5.507813	287.400000	4.191420
85	presto/tpcds: q86	254.200000	0.903327	252.200000	0.619677
86	presto/tpcds: q87	1187.200000	1.549193	1175.200000	1.639512
87	presto/tpcds: q88	7008.000000	18.590320	4536.000000	0.000000
88	presto/tpcds: q89	361.900000	1.224745	320.900000	1.489966
89	presto/tpcds: q90	432.700000	2.500400	290.300000	3.138790
90	presto/tpcds: q91	15.016667	1.792905	13.156667	1.038435
91	presto/tpcds: q92	22.098333	0.560836	20.906667	0.701104

	query	Baseline partitioned mean	Baseline partitioned std.dev	Batched readers partitioned mean	Batched readers partitioned std.dev
92	presto/tpcds: q93	3948.000000	18.590320	3604.900000	15.462859
93	presto/tpcds: q94	300.500000	0.883176	235.100000	0.701427
94	presto/tpcds: q95	1429.700000	3.745397	1253.800000	2.906544
95	presto/tpcds: q96	847.800000	2.839718	544.700000	3.338862
96	presto/tpcds: q97	1217.400000	10.217632	1142.900000	13.898345
97	presto/tpcds: q98	26.753333	0.213135	26.338333	0.447322
98	presto/tpcds: q99	716.400000	1.368211	660.900000	1.643168

TPC-H Comparison (Peak memory)

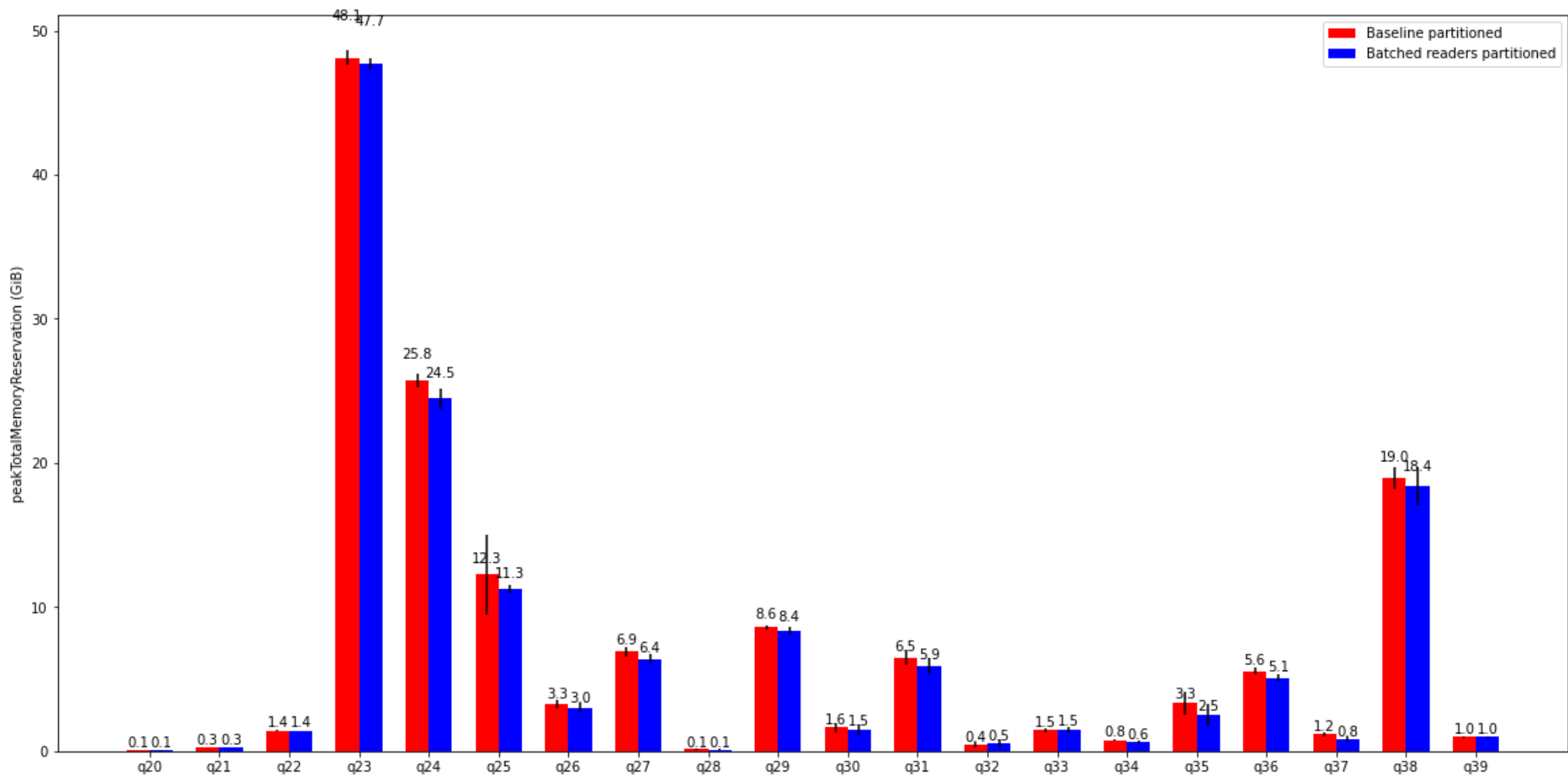


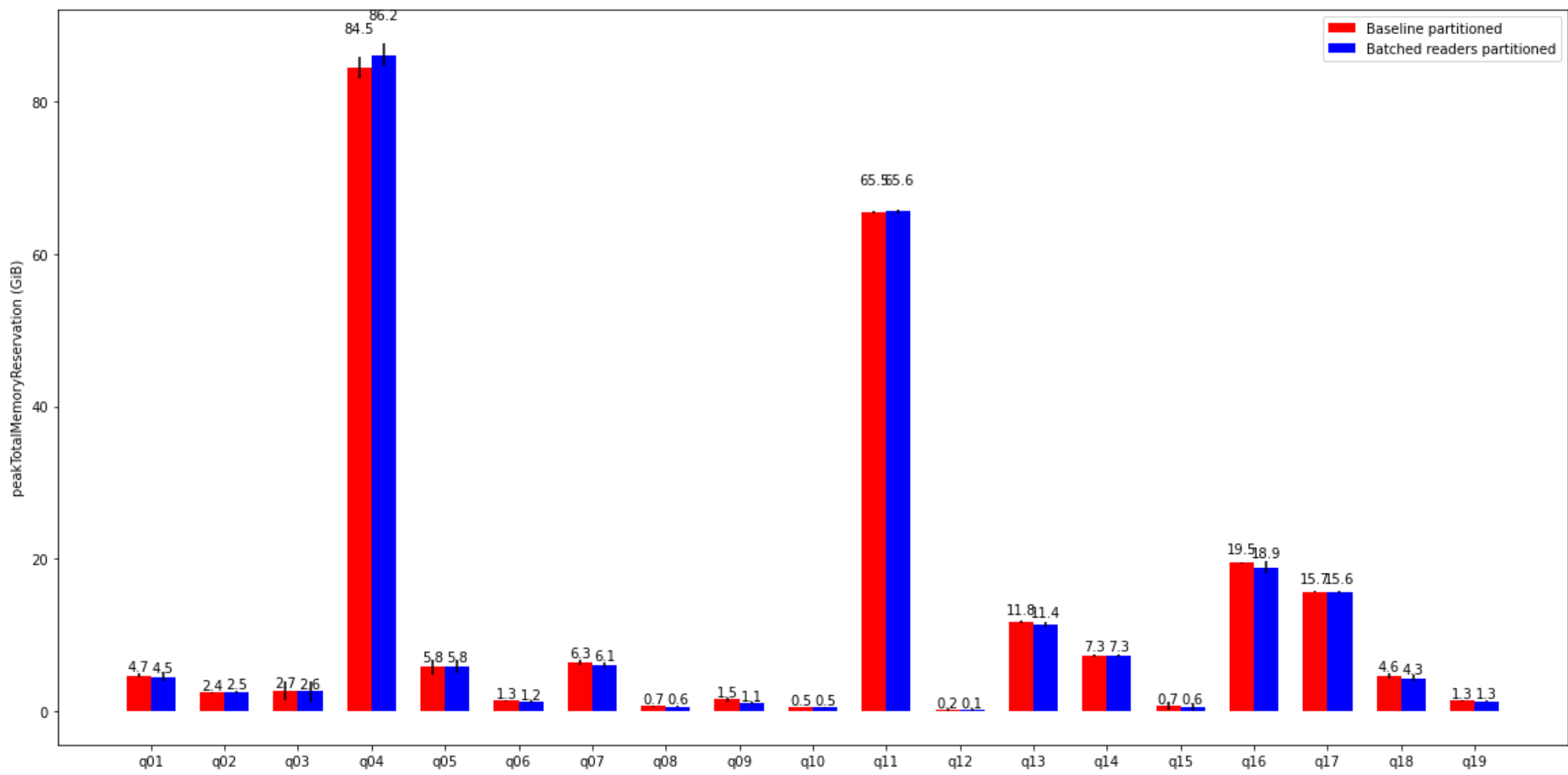


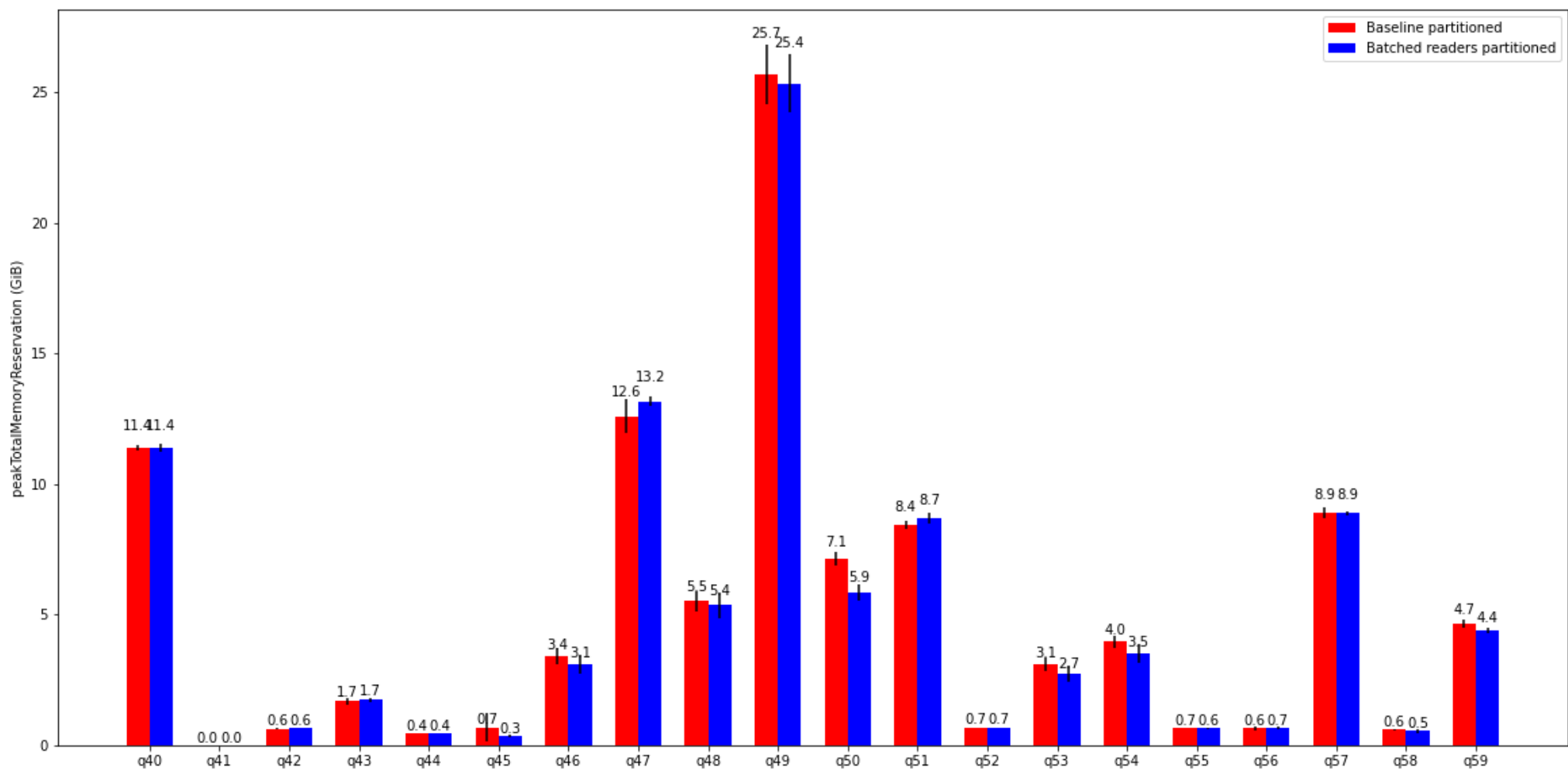
query	Baseline partitioned mean	Baseline partitioned std.dev	Batched readers partitioned mean	Batched readers partitioned std.dev
0 presto/tpch: q01	19.997 GiB	290.402 MiB	20.030 GiB	213.581 MiB
1 presto/tpch: q02	14.087 GiB	0.960 GiB	15.150 GiB	1.575 GiB
2 presto/tpch: q03	19.554 GiB	169.681 MiB	19.566 GiB	236.271 MiB
3 presto/tpch: q04	163.167 GiB	50.601 GiB	183.751 GiB	32.799 GiB
4 presto/tpch: q05	39.975 GiB	0.945 GiB	38.914 GiB	1.372 GiB
5 presto/tpch: q06	5.731 GiB	360.204 MiB	5.470 GiB	133.416 MiB
6 presto/tpch: q07	23.733 GiB	4.205 GiB	22.834 GiB	936.445 MiB
7 presto/tpch: q08	43.674 GiB	1.175 GiB	40.568 GiB	1.543 GiB

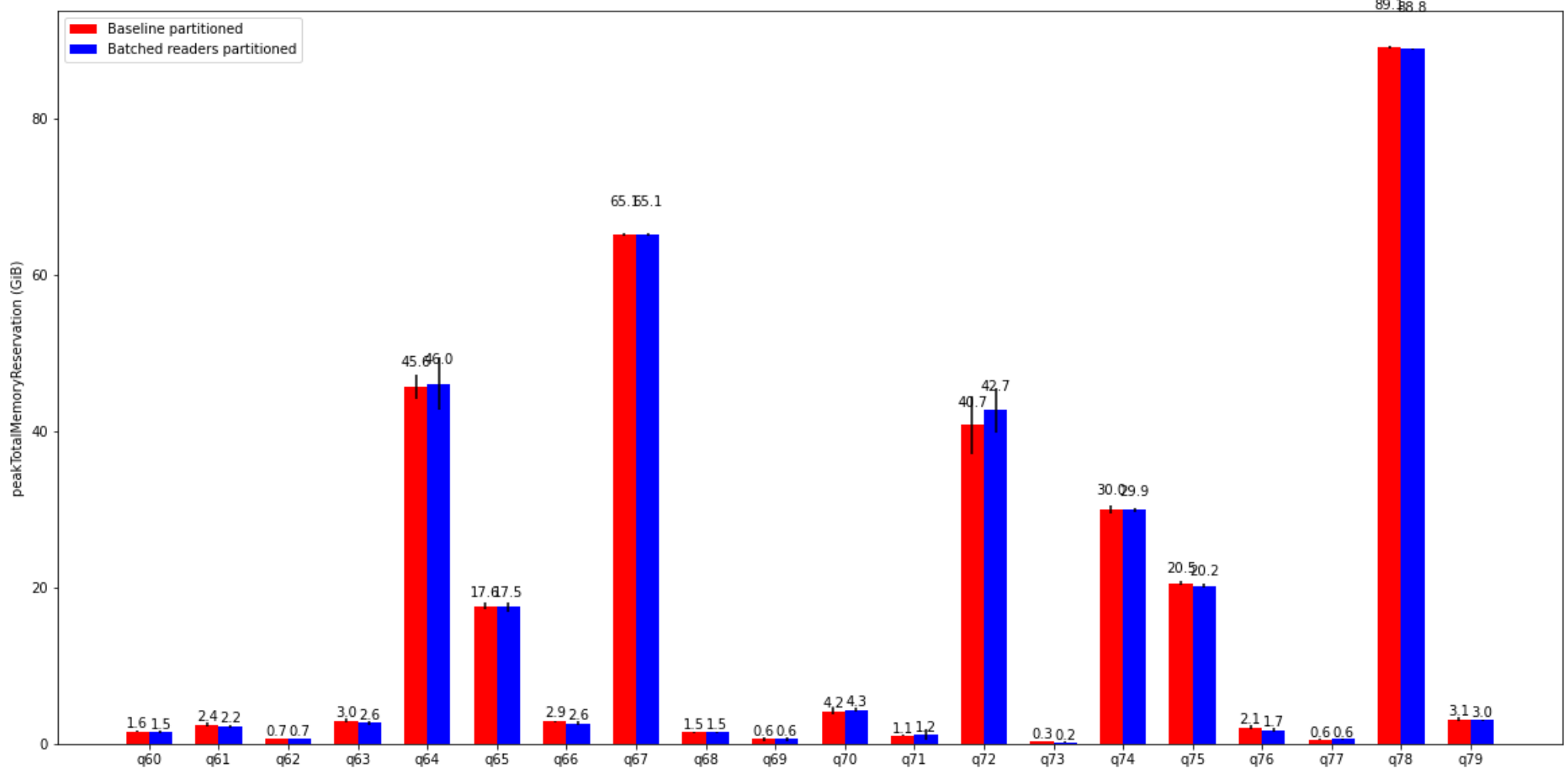
	query	Baseline partitioned mean	Baseline partitioned std.dev	Batched readers partitioned mean	Batched readers partitioned std.dev
8	presto/tpch: q09	126.953 GiB	1.156 GiB	125.424 GiB	1.256 GiB
9	presto/tpch: q10	39.620 GiB	1.413 GiB	37.319 GiB	1.584 GiB
10	presto/tpch: q11	16.059 GiB	572.353 MiB	14.203 GiB	923.564 MiB
11	presto/tpch: q12	3.922 GiB	333.121 MiB	3.860 GiB	167.864 MiB
12	presto/tpch: q13	16.170 GiB	305.339 MiB	16.231 GiB	338.591 MiB
13	presto/tpch: q14	6.008 GiB	26.874 MiB	6.001 GiB	31.301 MiB
14	presto/tpch: q15	7.344 GiB	103.908 MiB	7.270 GiB	103.182 MiB
15	presto/tpch: q16	12.823 GiB	171.953 MiB	12.648 GiB	189.437 MiB
16	presto/tpch: q17	65.293 GiB	819.309 MiB	65.504 GiB	451.852 MiB
17	presto/tpch: q18	93.616 GiB	748.884 MiB	93.443 GiB	345.711 MiB
18	presto/tpch: q19	34.488 GiB	1.298 GiB	33.009 GiB	1.030 GiB
19	presto/tpch: q20	30.814 GiB	368.715 MiB	30.210 GiB	382.966 MiB
20	presto/tpch: q21	477.089 GiB	907.348 MiB	475.611 GiB	1.339 GiB
21	presto/tpch: q22	17.772 GiB	2.757 GiB	17.502 GiB	1.976 GiB

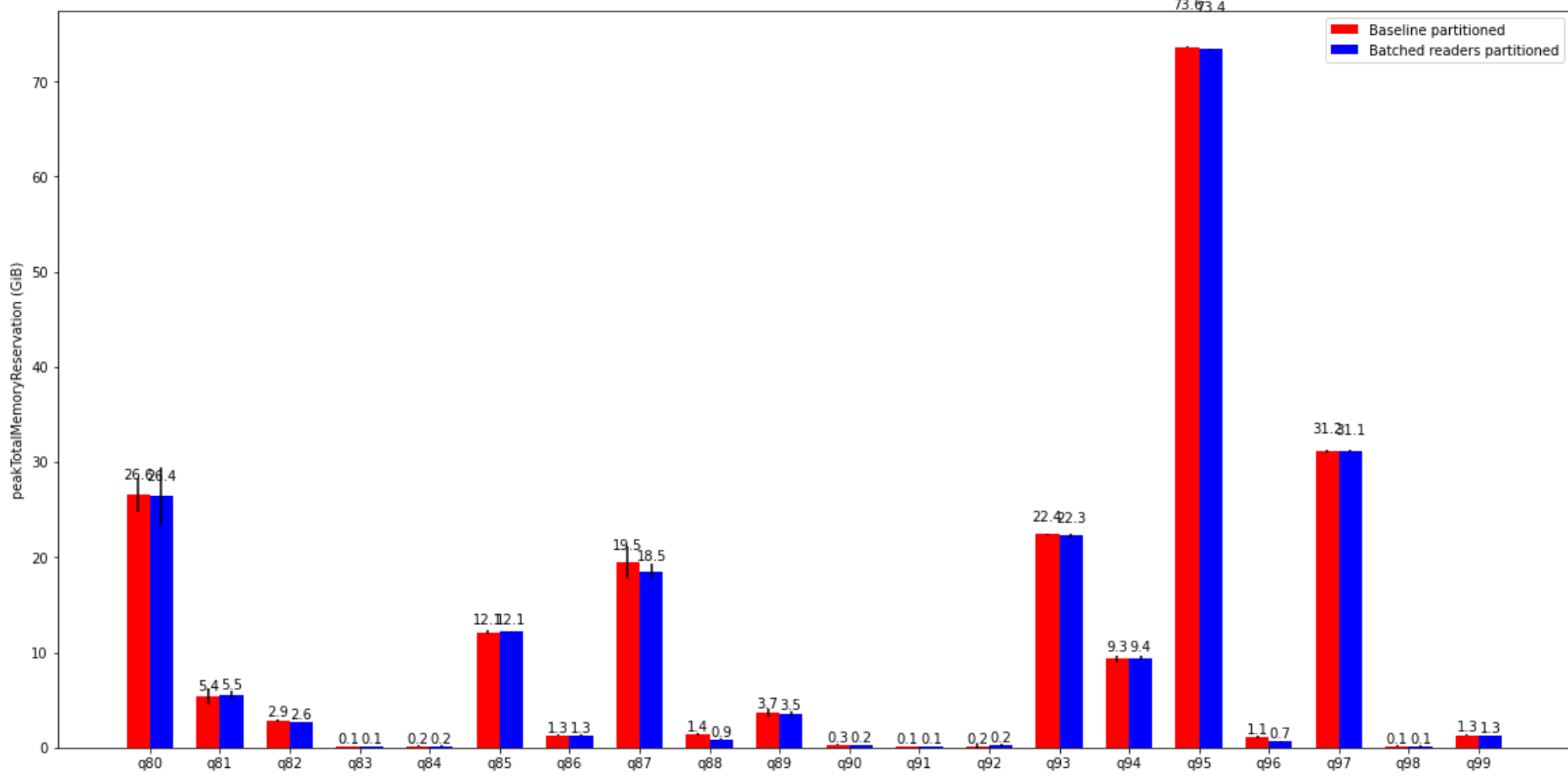
TPC-DS Comparison (Peak memory)

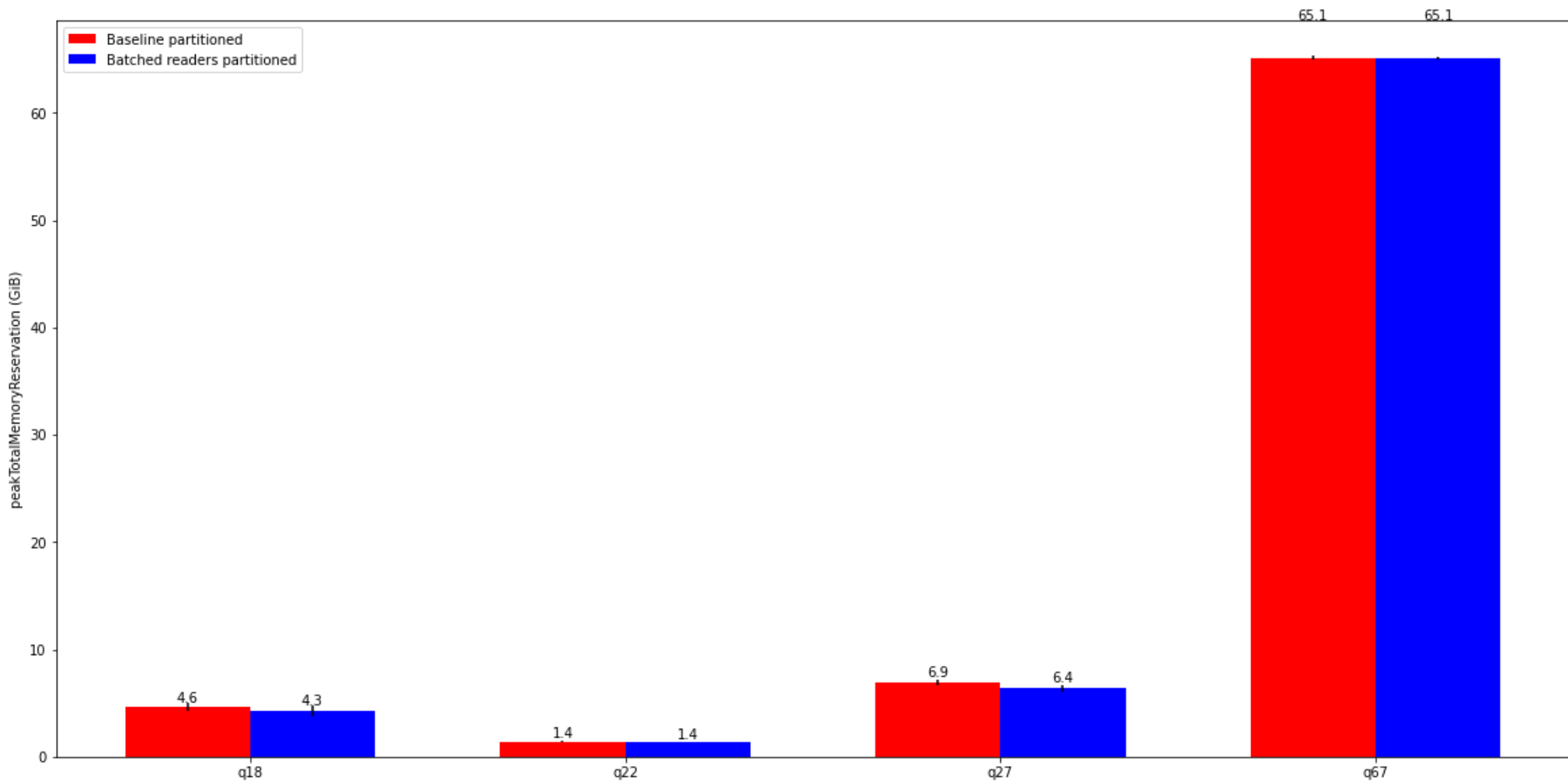












query	Baseline partitioned mean	Baseline partitioned std.dev	Batched readers partitioned mean	Batched readers partitioned std.dev
0 presto/tpcds: q01	4.683 GiB	194.231 MiB	4.503 GiB	624.473 MiB
1 presto/tpcds: q02	2.398 GiB	117.768 MiB	2.486 GiB	134.961 MiB
2 presto/tpcds: q03	2.651 GiB	1.227 GiB	2.558 GiB	1.262 GiB
3 presto/tpcds: q04	84.537 GiB	1.442 GiB	86.176 GiB	1.543 GiB
4 presto/tpcds: q05	5.812 GiB	1.003 GiB	5.808 GiB	0.923 GiB
5 presto/tpcds: q06	1.333 GiB	116.579 MiB	1.207 GiB	121.558 MiB
6 presto/tpcds: q07	6.341 GiB	419.083 MiB	6.059 GiB	397.589 MiB
7 presto/tpcds: q08	685.968 MiB	111.844 MiB	594.214 MiB	98.751 MiB

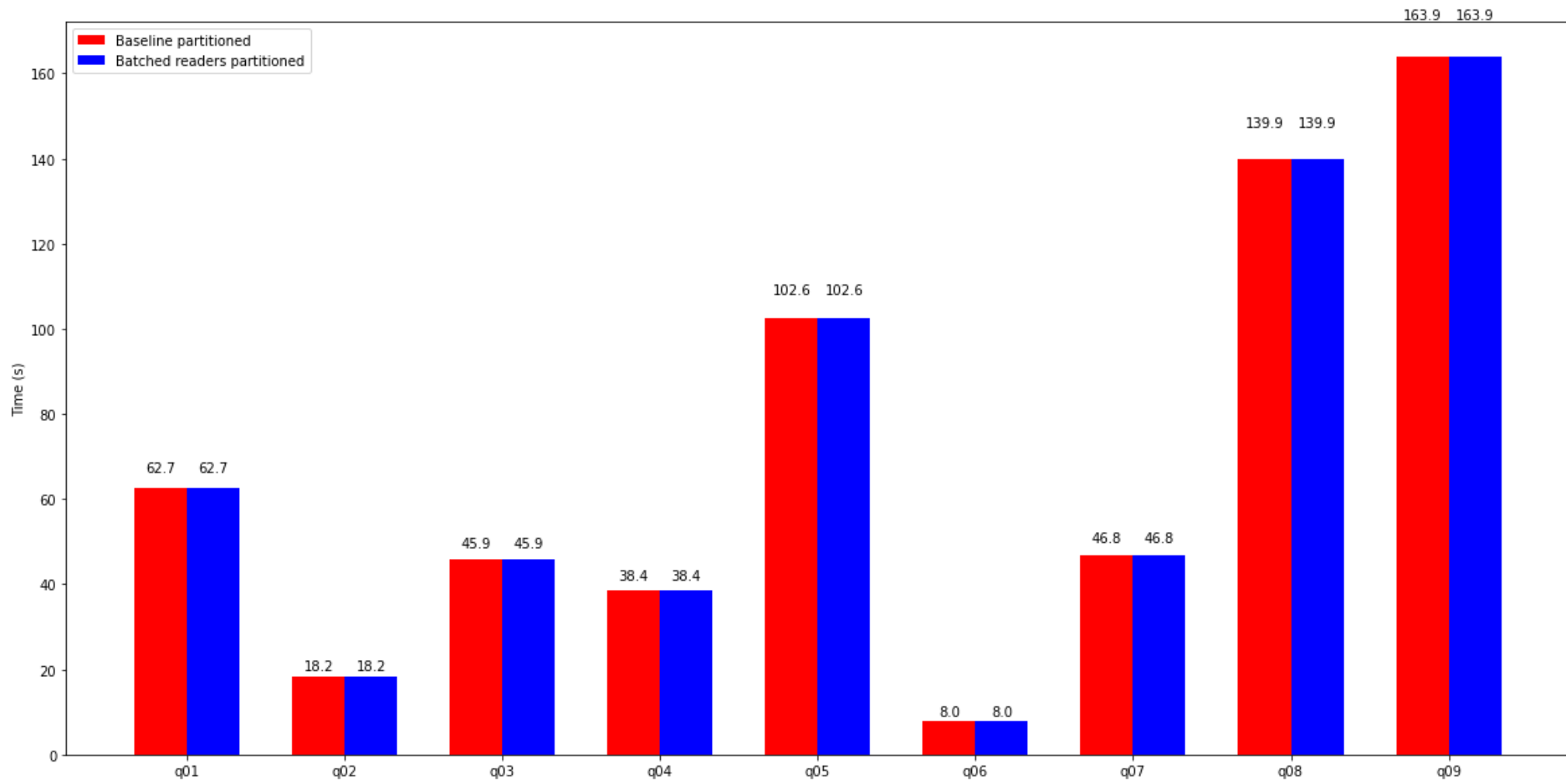
	query	Baseline partitioned mean	Baseline partitioned std.dev	Batched readers partitioned mean	Batched readers partitioned std.dev
8	presto/tpcds: q09	1.538 GiB	277.680 MiB	1.056 GiB	177.261 MiB
9	presto/tpcds: q10	534.258 MiB	70.869 MiB	484.366 MiB	94.745 MiB
10	presto/tpcds: q11	65.501 GiB	135.157 MiB	65.641 GiB	292.655 MiB
11	presto/tpcds: q12	156.475 MiB	148.423 MiB	149.401 MiB	185.835 MiB
12	presto/tpcds: q13	11.773 GiB	170.156 MiB	11.378 GiB	350.771 MiB
13	presto/tpcds: q14	7.260 GiB	143.074 MiB	7.266 GiB	152.769 MiB
14	presto/tpcds: q15	666.527 MiB	571.333 MiB	599.517 MiB	537.288 MiB
15	presto/tpcds: q16	19.467 GiB	114.968 MiB	18.864 GiB	861.411 MiB
16	presto/tpcds: q17	15.689 GiB	159.485 MiB	15.640 GiB	179.811 MiB
17	presto/tpcds: q18	4.643 GiB	331.058 MiB	4.297 GiB	490.297 MiB
18	presto/tpcds: q19	1.343 GiB	71.423 MiB	1.277 GiB	53.926 MiB
19	presto/tpcds: q20	67.361 MiB	36.960 MiB	60.179 MiB	42.352 MiB
20	presto/tpcds: q21	282.448 MiB	25.380 MiB	264.695 MiB	28.399 MiB
21	presto/tpcds: q22	1.408 GiB	30.321 MiB	1.396 GiB	25.294 MiB
22	presto/tpcds: q23	48.118 GiB	529.208 MiB	47.737 GiB	379.403 MiB
23	presto/tpcds: q24	25.755 GiB	481.433 MiB	24.484 GiB	707.680 MiB
24	presto/tpcds: q25	12.256 GiB	2.796 GiB	11.270 GiB	311.998 MiB
25	presto/tpcds: q26	3.273 GiB	311.273 MiB	3.026 GiB	332.394 MiB
26	presto/tpcds: q27	6.891 GiB	295.990 MiB	6.381 GiB	341.688 MiB
27	presto/tpcds: q28	126.506 MiB	4.091 MiB	124.281 MiB	4.409 MiB
28	presto/tpcds: q29	8.579 GiB	154.893 MiB	8.371 GiB	307.208 MiB
29	presto/tpcds: q30	1.626 GiB	347.035 MiB	1.492 GiB	360.289 MiB
30	presto/tpcds: q31	6.488 GiB	538.606 MiB	5.868 GiB	581.281 MiB
31	presto/tpcds: q32	447.972 MiB	162.346 MiB	559.690 MiB	279.015 MiB
32	presto/tpcds: q33	1.475 GiB	151.641 MiB	1.500 GiB	169.357 MiB
33	presto/tpcds: q34	784.593 MiB	70.239 MiB	652.847 MiB	99.141 MiB
34	presto/tpcds: q35	3.333 GiB	810.866 MiB	2.518 GiB	785.475 MiB
35	presto/tpcds: q36	5.555 GiB	266.013 MiB	5.089 GiB	206.113 MiB

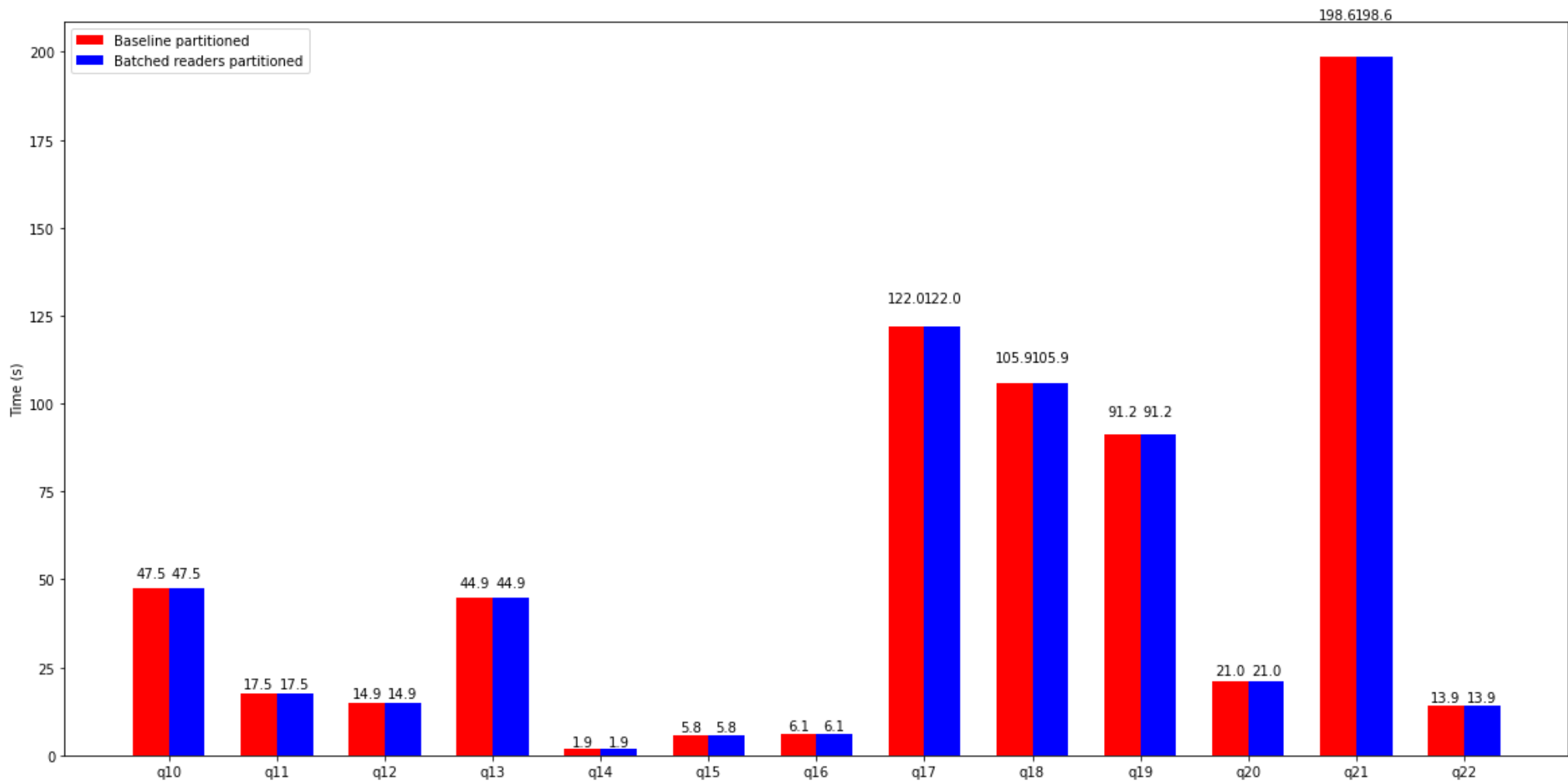
	query	Baseline partitioned mean	Baseline partitioned std.dev	Batched readers partitioned mean	Batched readers partitioned std.dev
36	presto/tpcds: q37	1.175 GiB	138.513 MiB	845.347 MiB	158.326 MiB
37	presto/tpcds: q38	18.967 GiB	805.500 MiB	18.356 GiB	1.313 GiB
38	presto/tpcds: q39	0.970 GiB	26.012 MiB	0.984 GiB	16.629 MiB
39	presto/tpcds: q40	11.381 GiB	93.932 MiB	11.383 GiB	173.539 MiB
40	presto/tpcds: q41	344.498 KiB	77.781 KiB	421.048 KiB	223.429 KiB
41	presto/tpcds: q42	651.040 MiB	12.736 MiB	653.995 MiB	1.119 MiB
42	presto/tpcds: q43	1.686 GiB	147.250 MiB	1.736 GiB	83.122 MiB
43	presto/tpcds: q44	450.084 MiB	114.793 KiB	450.093 MiB	193.716 KiB
44	presto/tpcds: q45	690.281 MiB	548.002 MiB	347.098 MiB	44.700 MiB
45	presto/tpcds: q46	3.395 GiB	327.967 MiB	3.091 GiB	375.917 MiB
46	presto/tpcds: q47	12.606 GiB	673.696 MiB	13.171 GiB	169.487 MiB
47	presto/tpcds: q48	5.522 GiB	392.821 MiB	5.360 GiB	495.160 MiB
48	presto/tpcds: q49	25.703 GiB	1.130 GiB	25.352 GiB	1.109 GiB
49	presto/tpcds: q50	7.134 GiB	280.244 MiB	5.852 GiB	313.052 MiB
50	presto/tpcds: q51	8.438 GiB	153.860 MiB	8.697 GiB	235.037 MiB
51	presto/tpcds: q52	680.814 MiB	2.089 MiB	675.389 MiB	7.810 MiB
52	presto/tpcds: q53	3.088 GiB	264.677 MiB	2.726 GiB	324.921 MiB
53	presto/tpcds: q54	3.962 GiB	220.977 MiB	3.518 GiB	383.619 MiB
54	presto/tpcds: q55	672.112 MiB	1.999 MiB	659.309 MiB	17.285 MiB
55	presto/tpcds: q56	652.951 MiB	83.042 MiB	666.469 MiB	48.820 MiB
56	presto/tpcds: q57	8.900 GiB	210.718 MiB	8.899 GiB	75.622 MiB
57	presto/tpcds: q58	608.104 MiB	43.996 MiB	552.144 MiB	65.780 MiB
58	presto/tpcds: q59	4.655 GiB	143.420 MiB	4.404 GiB	110.576 MiB
59	presto/tpcds: q60	1.594 GiB	78.639 MiB	1.505 GiB	192.035 MiB
60	presto/tpcds: q61	2.389 GiB	271.409 MiB	2.220 GiB	209.076 MiB
61	presto/tpcds: q62	721.357 MiB	26.050 MiB	705.025 MiB	19.320 MiB
62	presto/tpcds: q63	2.953 GiB	290.084 MiB	2.642 GiB	324.857 MiB
63	presto/tpcds: q64	45.609 GiB	1.512 GiB	46.023 GiB	3.356 GiB

	query	Baseline partitioned mean	Baseline partitioned std.dev	Batched readers partitioned mean	Batched readers partitioned std.dev
64	presto/tpcds: q65	17.621 GiB	401.316 MiB	17.483 GiB	563.946 MiB
65	presto/tpcds: q66	2.874 GiB	101.981 MiB	2.601 GiB	237.241 MiB
66	presto/tpcds: q67	65.139 GiB	205.987 MiB	65.107 GiB	178.872 MiB
67	presto/tpcds: q68	1.503 GiB	96.114 MiB	1.473 GiB	98.320 MiB
68	presto/tpcds: q69	614.975 MiB	248.507 MiB	633.084 MiB	242.191 MiB
69	presto/tpcds: q70	4.180 GiB	473.824 MiB	4.344 GiB	241.356 MiB
70	presto/tpcds: q71	1.054 GiB	83.859 MiB	1.163 GiB	655.404 MiB
71	presto/tpcds: q72	40.746 GiB	3.685 GiB	42.663 GiB	2.879 GiB
72	presto/tpcds: q73	263.218 MiB	15.048 MiB	227.757 MiB	14.254 MiB
73	presto/tpcds: q74	29.973 GiB	565.662 MiB	29.916 GiB	294.699 MiB
74	presto/tpcds: q75	20.493 GiB	270.756 MiB	20.197 GiB	252.975 MiB
75	presto/tpcds: q76	2.116 GiB	287.057 MiB	1.724 GiB	297.291 MiB
76	presto/tpcds: q77	575.271 MiB	87.877 MiB	583.236 MiB	71.322 MiB
77	presto/tpcds: q78	89.082 GiB	137.271 MiB	88.832 GiB	137.904 MiB
78	presto/tpcds: q79	3.127 GiB	206.384 MiB	2.989 GiB	140.047 MiB
79	presto/tpcds: q80	26.569 GiB	1.752 GiB	26.417 GiB	3.022 GiB
80	presto/tpcds: q81	5.381 GiB	930.905 MiB	5.530 GiB	459.942 MiB
81	presto/tpcds: q82	2.870 GiB	139.914 MiB	2.646 GiB	79.146 MiB
82	presto/tpcds: q83	96.983 MiB	7.185 MiB	99.619 MiB	8.030 MiB
83	presto/tpcds: q84	158.170 MiB	37.694 MiB	165.713 MiB	24.186 MiB
84	presto/tpcds: q85	12.130 GiB	166.000 MiB	12.148 GiB	143.537 MiB
85	presto/tpcds: q86	1.275 GiB	52.490 MiB	1.260 GiB	71.401 MiB
86	presto/tpcds: q87	19.530 GiB	1.711 GiB	18.502 GiB	815.334 MiB
87	presto/tpcds: q88	1.429 GiB	125.813 MiB	872.311 MiB	82.948 MiB
88	presto/tpcds: q89	3.675 GiB	384.812 MiB	3.501 GiB	287.868 MiB
89	presto/tpcds: q90	328.061 MiB	72.112 MiB	229.218 MiB	37.076 MiB
90	presto/tpcds: q91	108.257 MiB	42.121 MiB	93.409 MiB	5.656 MiB
91	presto/tpcds: q92	187.966 MiB	161.831 MiB	248.763 MiB	147.413 MiB

	query	Baseline partitioned mean	Baseline partitioned std.dev	Batched readers partitioned mean	Batched readers partitioned std.dev
92	presto/tpcds: q93	22.417 GiB	115.549 MiB	22.279 GiB	219.262 MiB
93	presto/tpcds: q94	9.337 GiB	331.780 MiB	9.435 GiB	264.263 MiB
94	presto/tpcds: q95	73.639 GiB	91.470 MiB	73.415 GiB	82.897 MiB
95	presto/tpcds: q96	1.083 GiB	107.706 MiB	676.182 MiB	84.604 MiB
96	presto/tpcds: q97	31.183 GiB	168.015 MiB	31.139 GiB	120.780 MiB
97	presto/tpcds: q98	136.290 MiB	64.264 MiB	134.861 MiB	94.921 MiB
98	presto/tpcds: q99	1.309 GiB	30.079 MiB	1.253 GiB	22.103 MiB

TPC-H Comparison (physicalInputDataSize)

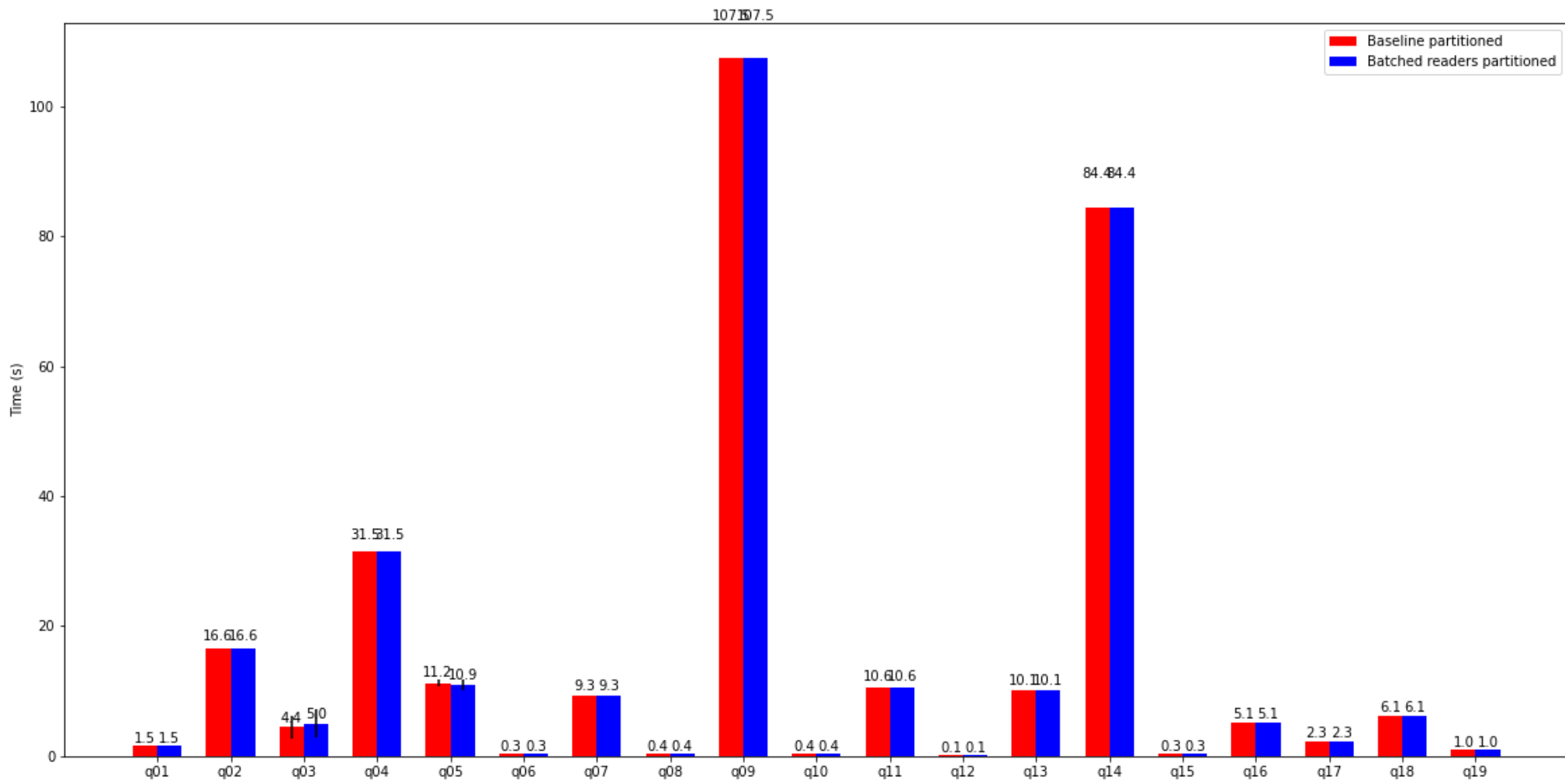


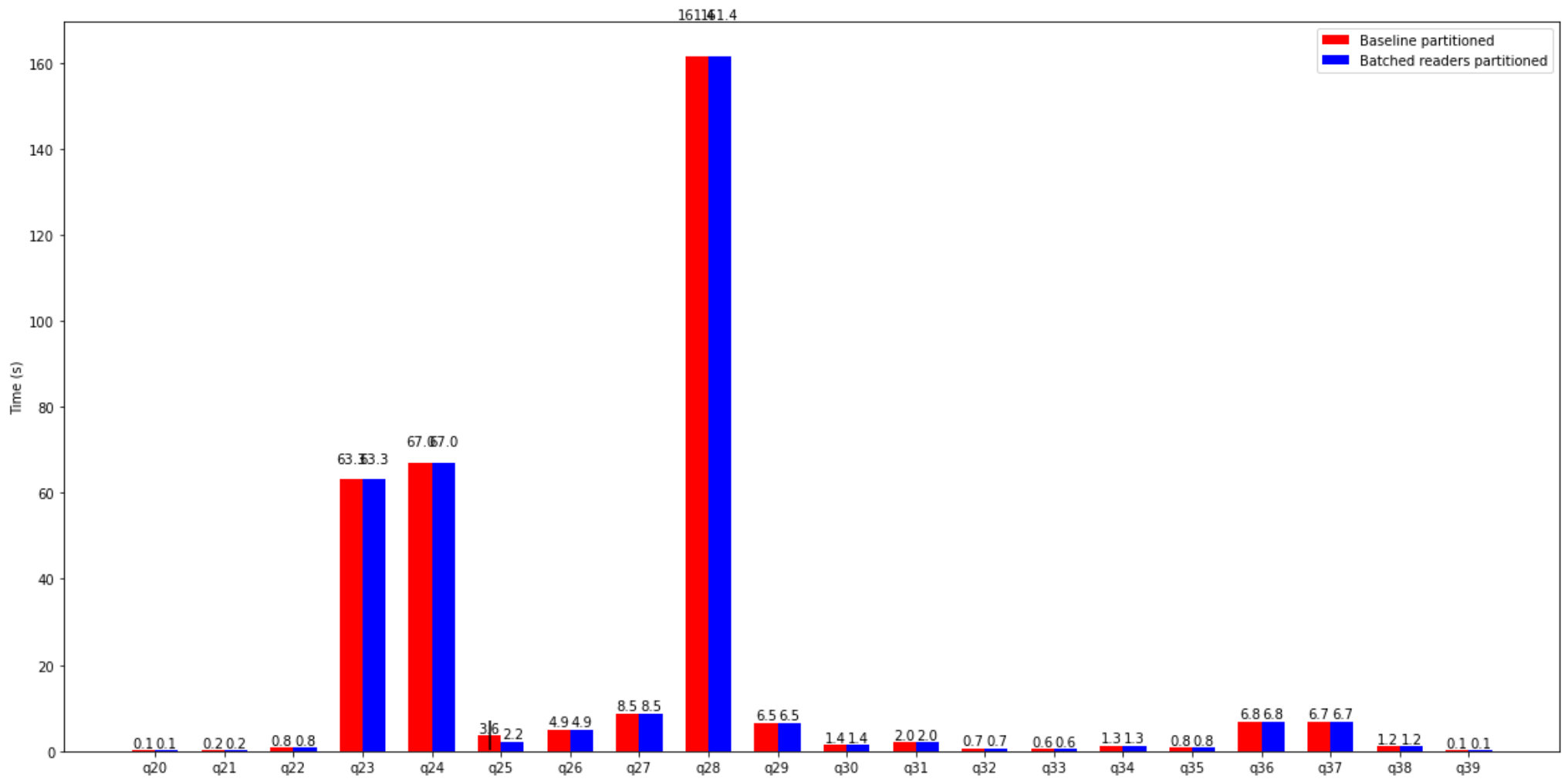


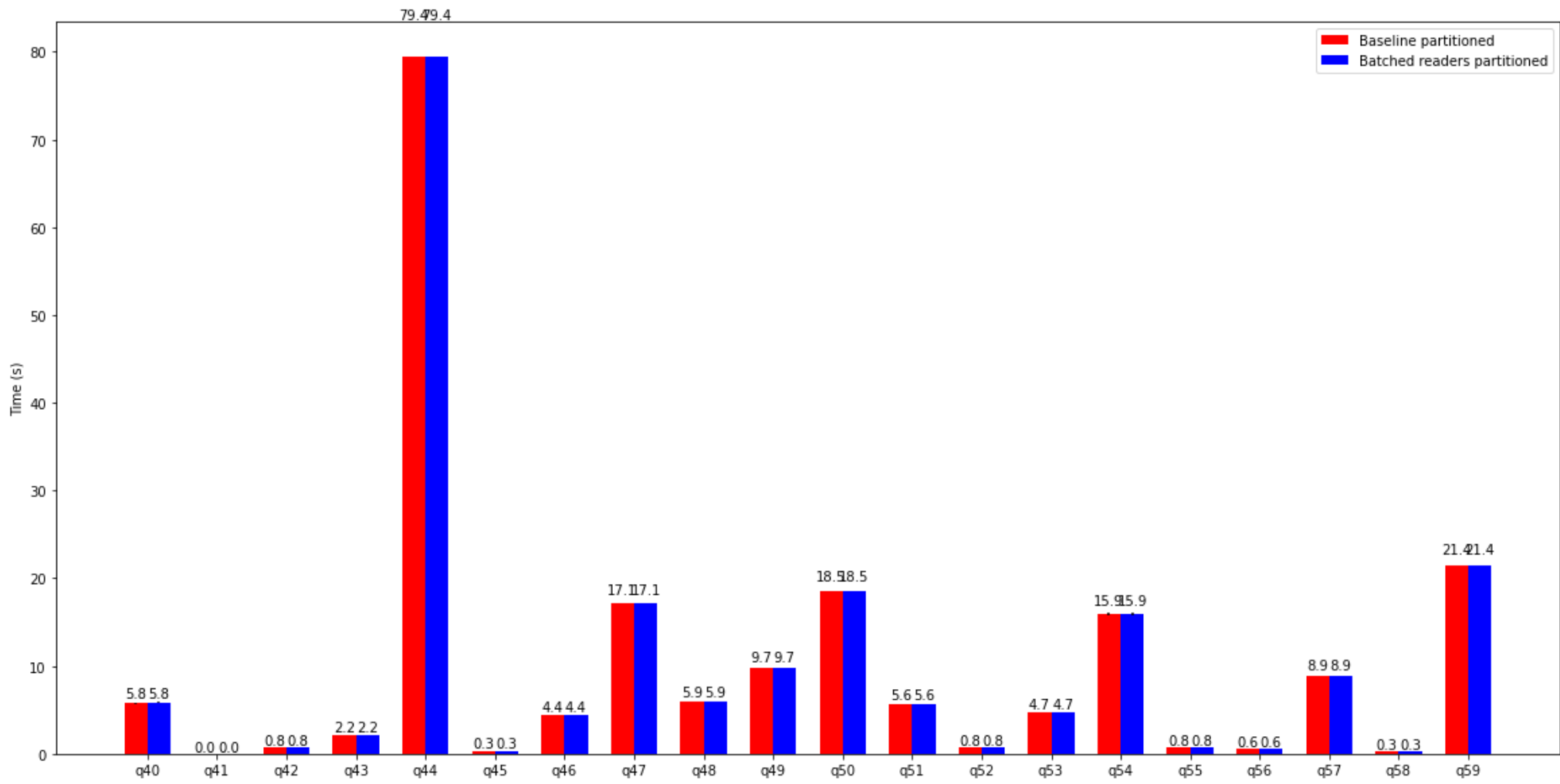
query	Baseline partitioned mean	Baseline partitioned std.dev	Batched readers partitioned mean	Batched readers partitioned std.dev
0 presto/tpch: q01	62.709 GiB	0	62.709 GiB	0
1 presto/tpch: q02	18.242 GiB	0	18.242 GiB	0
2 presto/tpch: q03	45.896 GiB	0	45.896 GiB	0
3 presto/tpch: q04	38.432 GiB	0	38.432 GiB	0
4 presto/tpch: q05	102.592 GiB	0	102.592 GiB	0
5 presto/tpch: q06	7.959 GiB	0	7.959 GiB	0
6 presto/tpch: q07	46.837 GiB	0	46.837 GiB	0
7 presto/tpch: q08	139.868 GiB	0	139.868 GiB	0

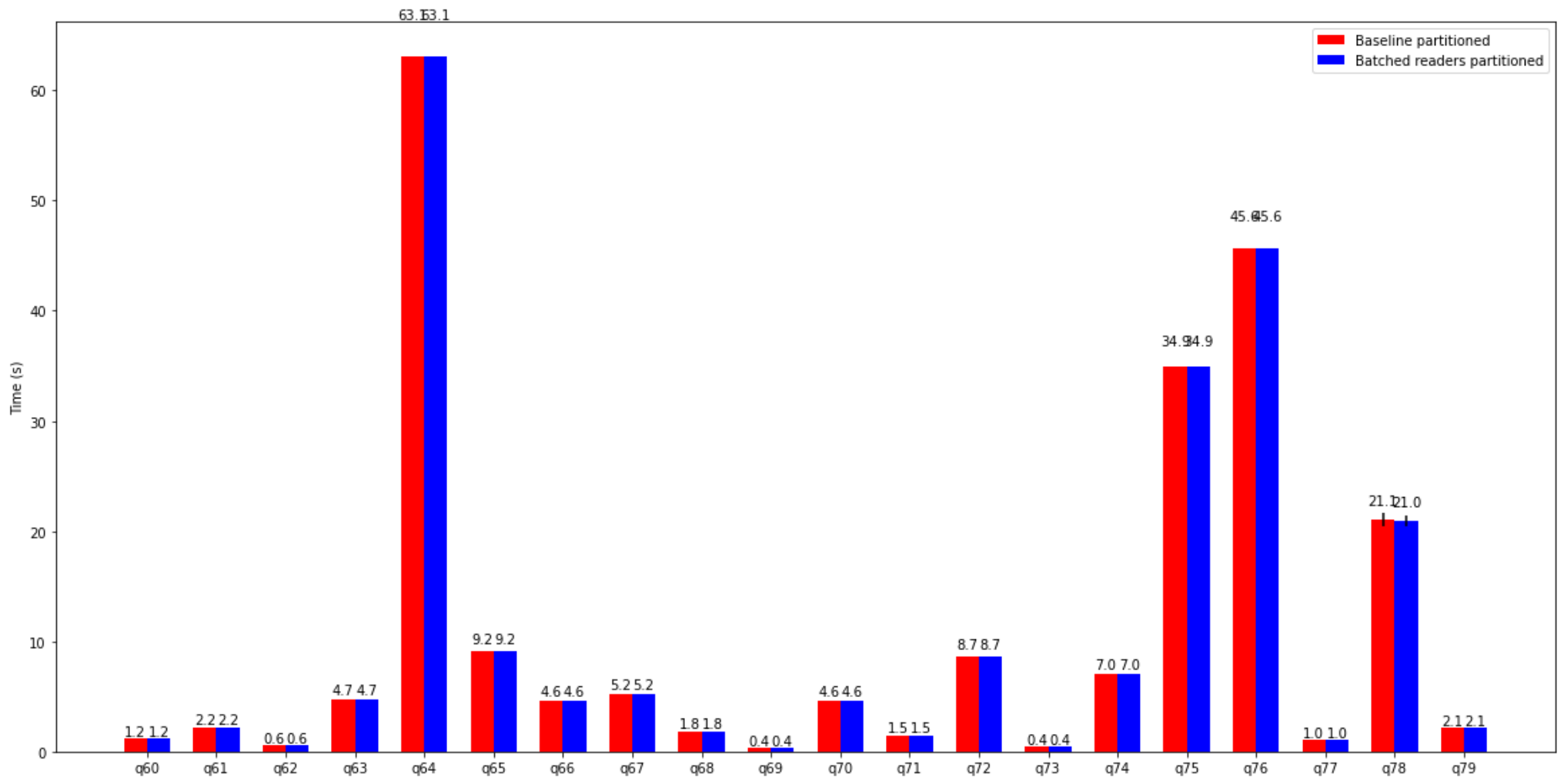
	query	Baseline partitioned mean	Baseline partitioned std.dev	Batched readers partitioned mean	Batched readers partitioned std.dev
8	presto/tpch: q09	163.910 GiB	0	163.910 GiB	0
9	presto/tpch: q10	47.541 GiB	0	47.541 GiB	0
10	presto/tpch: q11	17.532 GiB	0	17.532 GiB	0
11	presto/tpch: q12	14.862 GiB	0	14.862 GiB	0
12	presto/tpch: q13	44.859 GiB	0	44.859 GiB	0
13	presto/tpch: q14	1.895 GiB	0	1.895 GiB	0
14	presto/tpch: q15	5.815 GiB	0	5.815 GiB	0
15	presto/tpch: q16	6.083 GiB	0	6.083 GiB	0
16	presto/tpch: q17	122.027 GiB	0	122.027 GiB	0
17	presto/tpch: q18	105.851 GiB	0	105.851 GiB	0
18	presto/tpch: q19	91.246 GiB	0	91.246 GiB	0
19	presto/tpch: q20	21.045 GiB	0	21.045 GiB	0
20	presto/tpch: q21	198.571 GiB	0	198.571 GiB	0
21	presto/tpch: q22	13.934 GiB	0	13.934 GiB	0

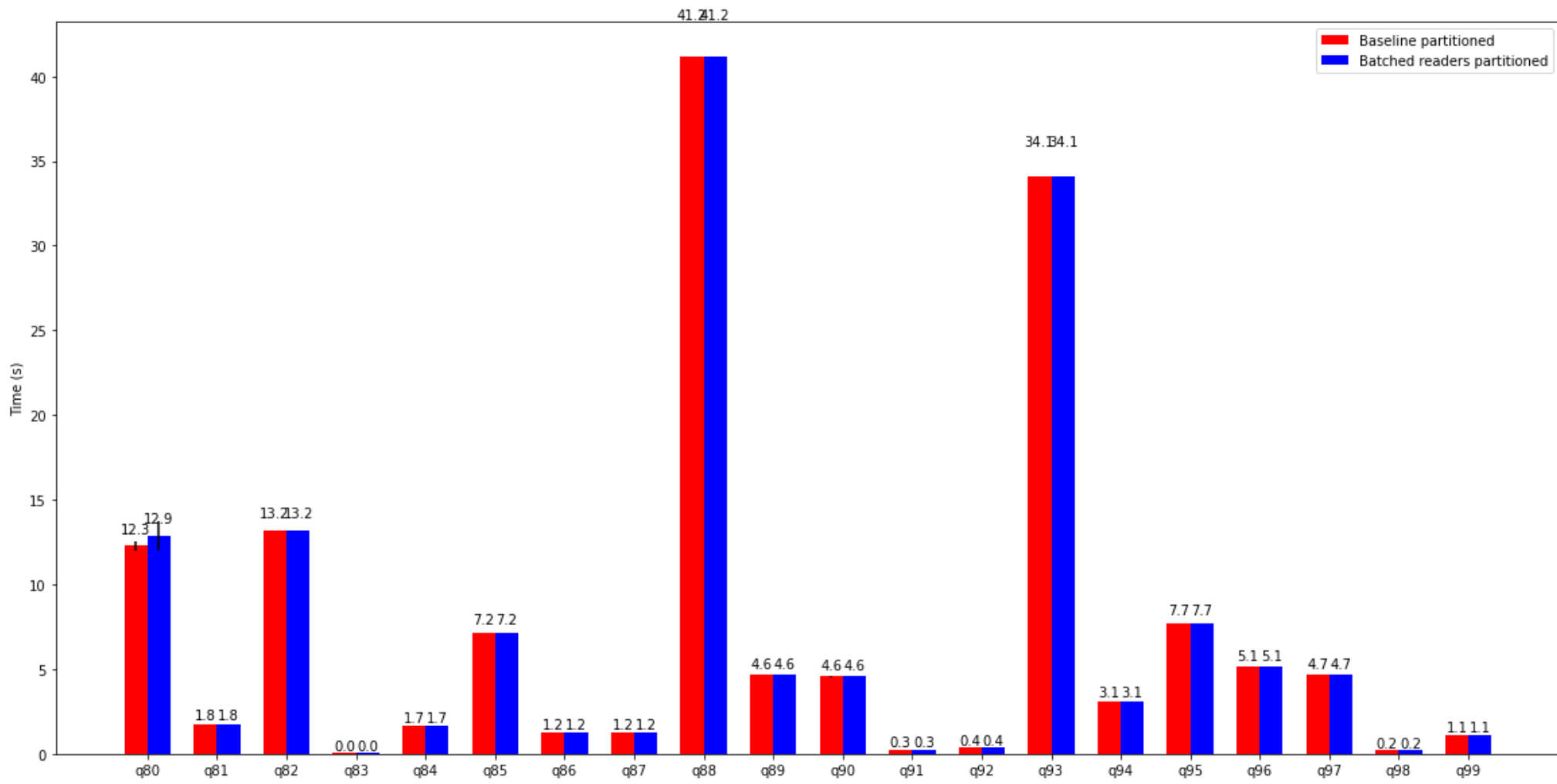
TPC-DS Comparison (physicalInputDataSize)

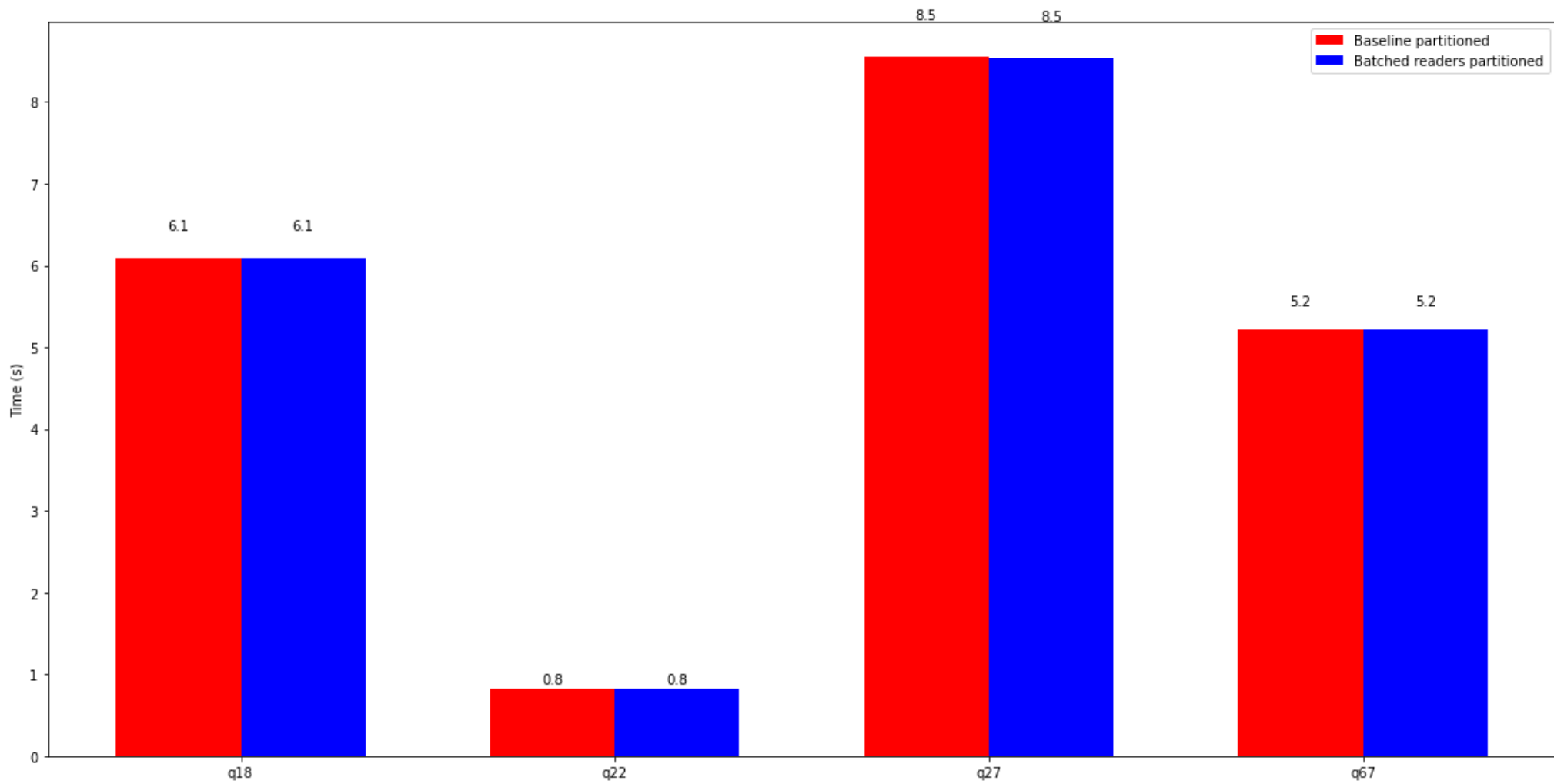












	query	Baseline partitioned mean	Baseline partitioned std.dev	Batched readers partitioned mean	Batched readers partitioned std.dev
0	presto/tpcds: q01	1.531 GiB	561.508 KiB	1.531 GiB	584.498 KiB
1	presto/tpcds: q02	16.581 GiB	0	16.581 GiB	0
2	presto/tpcds: q03	4.423 GiB	1.808 GiB	5.033 GiB	2.089 GiB
3	presto/tpcds: q04	31.461 GiB	0	31.461 GiB	0
4	presto/tpcds: q05	11.220 GiB	481.264 MiB	10.918 GiB	839.744 MiB
5	presto/tpcds: q06	322.023 MiB	0	322.023 MiB	0
6	presto/tpcds: q07	9.259 GiB	0	9.259 GiB	0
7	presto/tpcds: q08	446.768 MiB	0	446.768 MiB	0

	query	Baseline partitioned mean	Baseline partitioned std.dev	Batched readers partitioned mean	Batched readers partitioned std.dev
8	presto/tpcds: q09	107.451 GiB	0	107.451 GiB	0
9	presto/tpcds: q10	418.259 MiB	0	418.259 MiB	0
10	presto/tpcds: q11	10.582 GiB	0	10.582 GiB	0
11	presto/tpcds: q12	81.423 MiB	0	81.423 MiB	0
12	presto/tpcds: q13	10.121 GiB	0	10.118 GiB	4.222 MiB
13	presto/tpcds: q14	84.394 GiB	0	84.394 GiB	0
14	presto/tpcds: q15	356.767 MiB	0	356.767 MiB	0
15	presto/tpcds: q16	5.125 GiB	230.392 KiB	5.126 GiB	0
16	presto/tpcds: q17	2.303 GiB	0	2.303 GiB	0
17	presto/tpcds: q18	6.098 GiB	0	6.098 GiB	0
18	presto/tpcds: q19	1.032 GiB	0	1.032 GiB	0
19	presto/tpcds: q20	139.137 MiB	0	139.137 MiB	0
20	presto/tpcds: q21	159.914 MiB	0	159.914 MiB	0
21	presto/tpcds: q22	837.664 MiB	0	837.664 MiB	0
22	presto/tpcds: q23	63.282 GiB	0	63.282 GiB	0
23	presto/tpcds: q24	67.020 GiB	1.725 MiB	67.020 GiB	336.221 KiB
24	presto/tpcds: q25	3.601 GiB	3.398 GiB	2.214 GiB	0
25	presto/tpcds: q26	4.892 GiB	0	4.892 GiB	0
26	presto/tpcds: q27	8.547 GiB	3.183 MiB	8.541 GiB	210.885 KiB
27	presto/tpcds: q28	161.386 GiB	0	161.386 GiB	0
28	presto/tpcds: q29	6.505 GiB	0	6.505 GiB	0
29	presto/tpcds: q30	1.446 GiB	0	1.446 GiB	0
30	presto/tpcds: q31	2.000 GiB	0	2.000 GiB	0
31	presto/tpcds: q32	725.283 MiB	0	725.283 MiB	0
32	presto/tpcds: q33	629.912 MiB	0	629.912 MiB	0
33	presto/tpcds: q34	1.283 GiB	163.878 KiB	1.283 GiB	385.436 KiB
34	presto/tpcds: q35	782.270 MiB	0	782.270 MiB	0
35	presto/tpcds: q36	6.826 GiB	1.921 MiB	6.827 GiB	2.084 MiB

	query	Baseline partitioned mean	Baseline partitioned std.dev	Batched readers partitioned mean	Batched readers partitioned std.dev
36	presto/tpcds: q37	6.672 GiB	0	6.672 GiB	0
37	presto/tpcds: q38	1.250 GiB	0	1.250 GiB	0
38	presto/tpcds: q39	128.258 MiB	0	128.258 MiB	0
39	presto/tpcds: q40	5.755 GiB	86.549 MiB	5.816 GiB	81.528 MiB
40	presto/tpcds: q41	16.635 MiB	0	16.635 MiB	0
41	presto/tpcds: q42	784.476 MiB	0	784.476 MiB	0
42	presto/tpcds: q43	2.156 GiB	0	2.156 GiB	0
43	presto/tpcds: q44	79.429 GiB	0	79.429 GiB	0
44	presto/tpcds: q45	355.766 MiB	0	355.766 MiB	0
45	presto/tpcds: q46	4.385 GiB	88.323 KiB	4.385 GiB	0
46	presto/tpcds: q47	17.093 GiB	47.078 KiB	17.093 GiB	0
47	presto/tpcds: q48	5.935 GiB	0	5.935 GiB	0
48	presto/tpcds: q49	9.719 GiB	0	9.719 GiB	0
49	presto/tpcds: q50	18.482 GiB	0	18.482 GiB	0
50	presto/tpcds: q51	5.638 GiB	0	5.638 GiB	0
51	presto/tpcds: q52	784.476 MiB	0	784.476 MiB	0
52	presto/tpcds: q53	4.670 GiB	0	4.670 GiB	0
53	presto/tpcds: q54	15.945 GiB	171.524 MiB	15.906 GiB	107.785 MiB
54	presto/tpcds: q55	777.379 MiB	0	777.379 MiB	0
55	presto/tpcds: q56	603.600 MiB	0	603.600 MiB	0
56	presto/tpcds: q57	8.906 GiB	0	8.906 GiB	0
57	presto/tpcds: q58	291.104 MiB	0	291.104 MiB	0
58	presto/tpcds: q59	21.444 GiB	0	21.444 GiB	0
59	presto/tpcds: q60	1.169 GiB	0	1.169 GiB	0
60	presto/tpcds: q61	2.161 GiB	0	2.161 GiB	0
61	presto/tpcds: q62	614.828 MiB	0	614.828 MiB	0
62	presto/tpcds: q63	4.676 GiB	0	4.676 GiB	0
63	presto/tpcds: q64	63.061 GiB	271.453 KiB	63.061 GiB	187.089 KiB

	query	Baseline partitioned mean	Baseline partitioned std.dev	Batched readers partitioned mean	Batched readers partitioned std.dev
64	presto/tpcds: q65	9.154 GiB	0	9.154 GiB	0
65	presto/tpcds: q66	4.579 GiB	99.121 KiB	4.579 GiB	58.869 KiB
66	presto/tpcds: q67	5.215 GiB	0	5.215 GiB	0
67	presto/tpcds: q68	1.818 GiB	0	1.818 GiB	8.727 KiB
68	presto/tpcds: q69	363.969 MiB	0	363.969 MiB	0
69	presto/tpcds: q70	4.600 GiB	0.927 MiB	4.600 GiB	1.299 MiB
70	presto/tpcds: q71	1.455 GiB	893.874 KiB	1.455 GiB	1.121 MiB
71	presto/tpcds: q72	8.652 GiB	0	8.652 GiB	0
72	presto/tpcds: q73	440.993 MiB	71.321 KiB	440.986 MiB	89.305 KiB
73	presto/tpcds: q74	6.994 GiB	0	6.994 GiB	0
74	presto/tpcds: q75	34.889 GiB	0	34.889 GiB	0
75	presto/tpcds: q76	45.649 GiB	0	45.649 GiB	0
76	presto/tpcds: q77	1.014 GiB	0	1.014 GiB	0
77	presto/tpcds: q78	21.073 GiB	648.344 MiB	20.953 GiB	527.930 MiB
78	presto/tpcds: q79	2.122 GiB	35.309 KiB	2.122 GiB	30.110 KiB
79	presto/tpcds: q80	12.278 GiB	296.088 MiB	12.875 GiB	884.501 MiB
80	presto/tpcds: q81	1.767 GiB	0	1.767 GiB	0
81	presto/tpcds: q82	13.173 GiB	0	13.173 GiB	0
82	presto/tpcds: q83	41.252 MiB	0	41.252 MiB	0
83	presto/tpcds: q84	1.678 GiB	602.326 KiB	1.678 GiB	602.326 KiB
84	presto/tpcds: q85	7.154 GiB	18.443 KiB	7.154 GiB	35.449 KiB
85	presto/tpcds: q86	1.231 GiB	0	1.231 GiB	0
86	presto/tpcds: q87	1.250 GiB	0	1.250 GiB	0
87	presto/tpcds: q88	41.154 GiB	8.296 MiB	41.153 GiB	6.992 MiB
88	presto/tpcds: q89	4.645 GiB	0	4.645 GiB	0
89	presto/tpcds: q90	4.567 GiB	19.981 MiB	4.584 GiB	12.941 MiB
90	presto/tpcds: q91	266.936 MiB	0	266.936 MiB	0
91	presto/tpcds: q92	379.297 MiB	37.267 KiB	379.282 MiB	0

	query	Baseline partitioned mean	Baseline partitioned std.dev	Batched readers partitioned mean	Batched readers partitioned std.dev
92	presto/tpcds: q93	34.056 GiB	48.462 KiB	34.056 GiB	35.512 KiB
93	presto/tpcds: q94	3.057 GiB	1.033 KiB	3.057 GiB	0
94	presto/tpcds: q95	7.691 GiB	0	7.691 GiB	0
95	presto/tpcds: q96	5.142 GiB	5.489 MiB	5.140 GiB	6.779 MiB
96	presto/tpcds: q97	4.667 GiB	0	4.667 GiB	0
97	presto/tpcds: q98	244.988 MiB	0	244.988 MiB	0
98	presto/tpcds: q99	1.118 GiB	0	1.118 GiB	10.543 KiB