

FAILED QUERIES

Baseline partitioned parquet

benchmark query mean_duration std_dev

RLE join probe

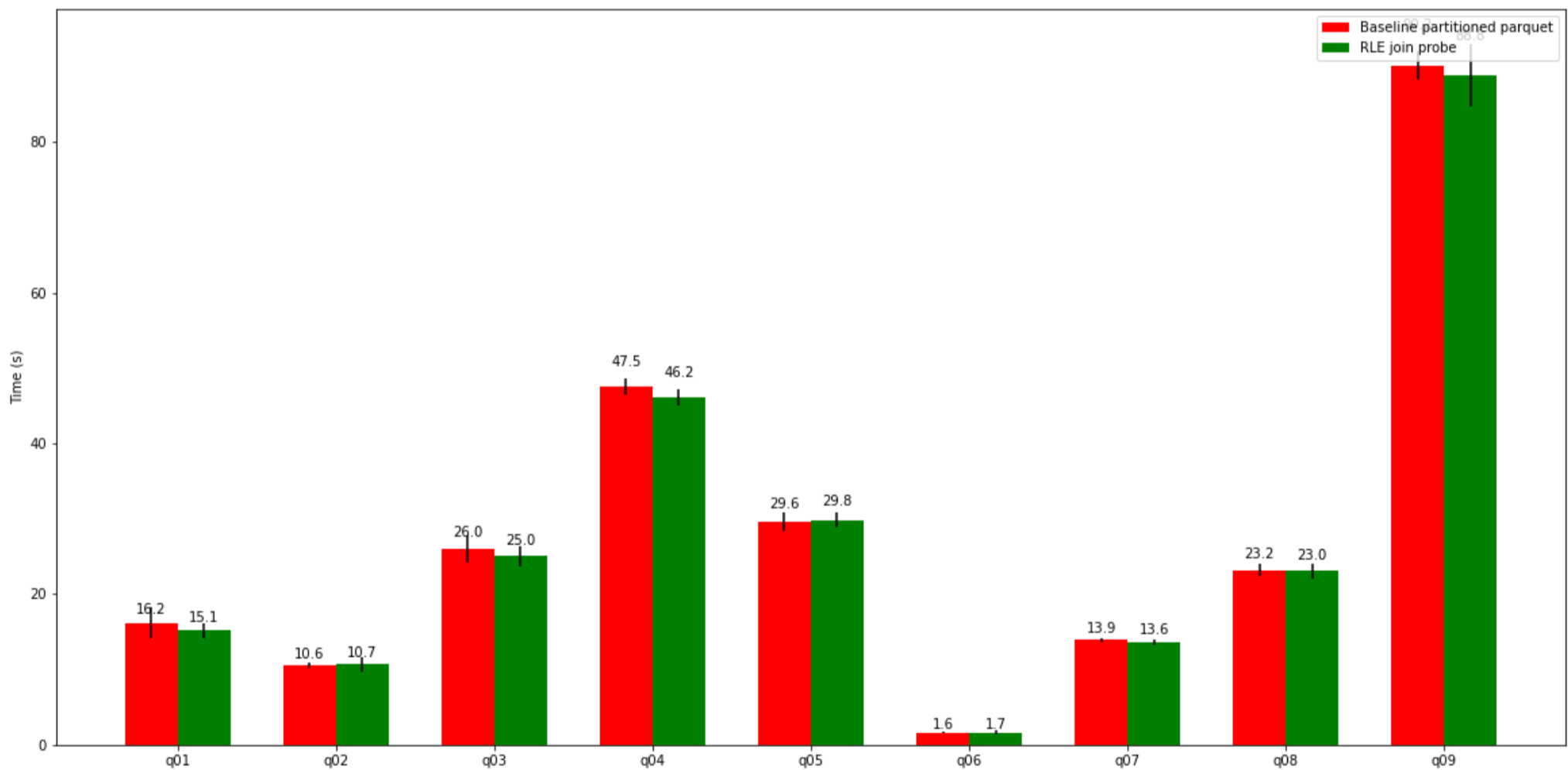
benchmark query mean_duration std_dev

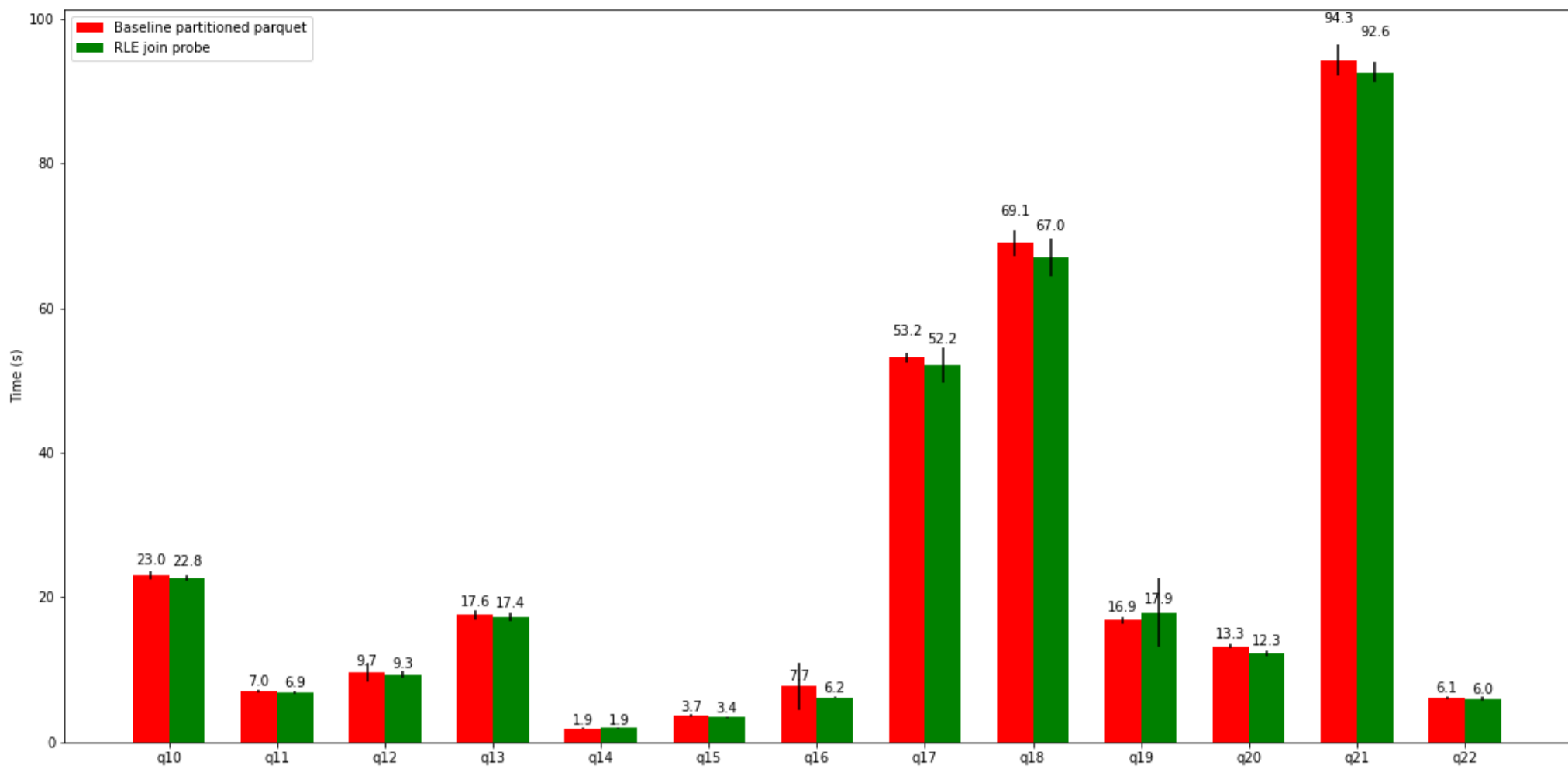
SUMMARY

	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 parquet	582.007667	901.357833	50290.700000	82597.377000	1.289 TiB	1.178 TiB	1.262 TiB	0.974 TiB	5.578585	60.676923
1	RLE join probe	569.832667	846.859167	47784.900000	79739.543167	1.289 TiB	1.180 TiB	1.179 TiB	0.949 TiB	5.733460	59.445193

Insert Comparison (DURATION)

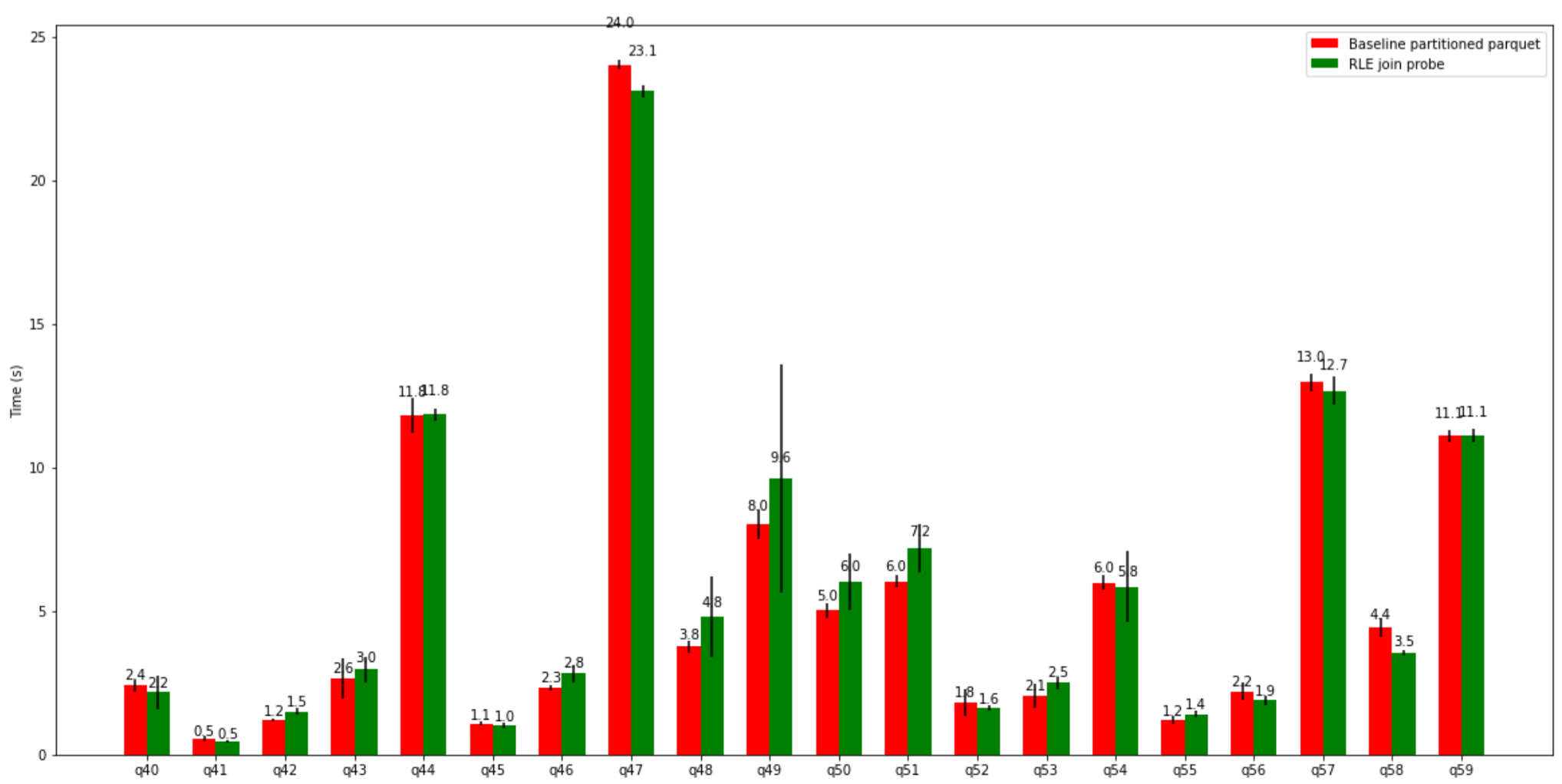
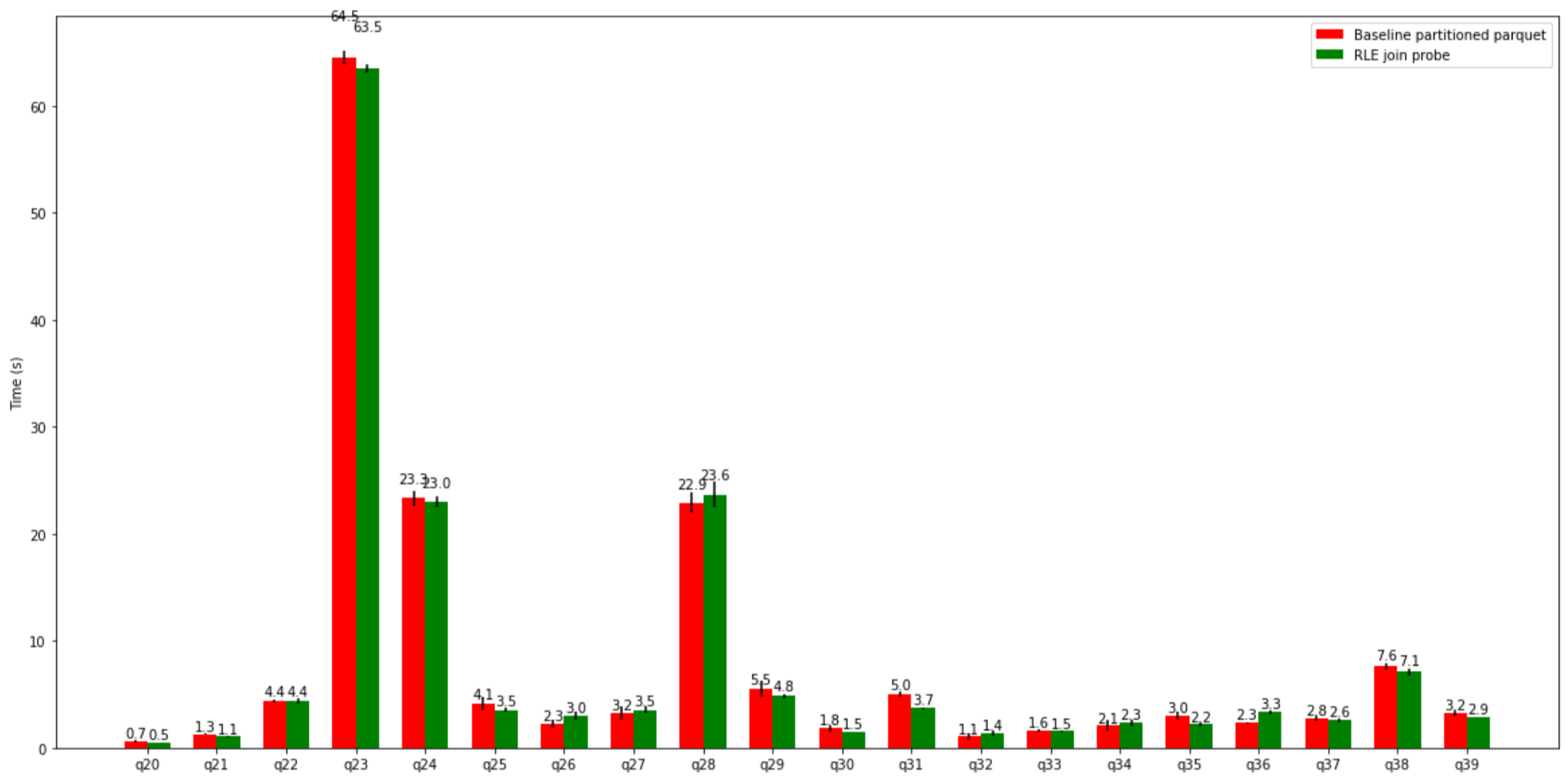
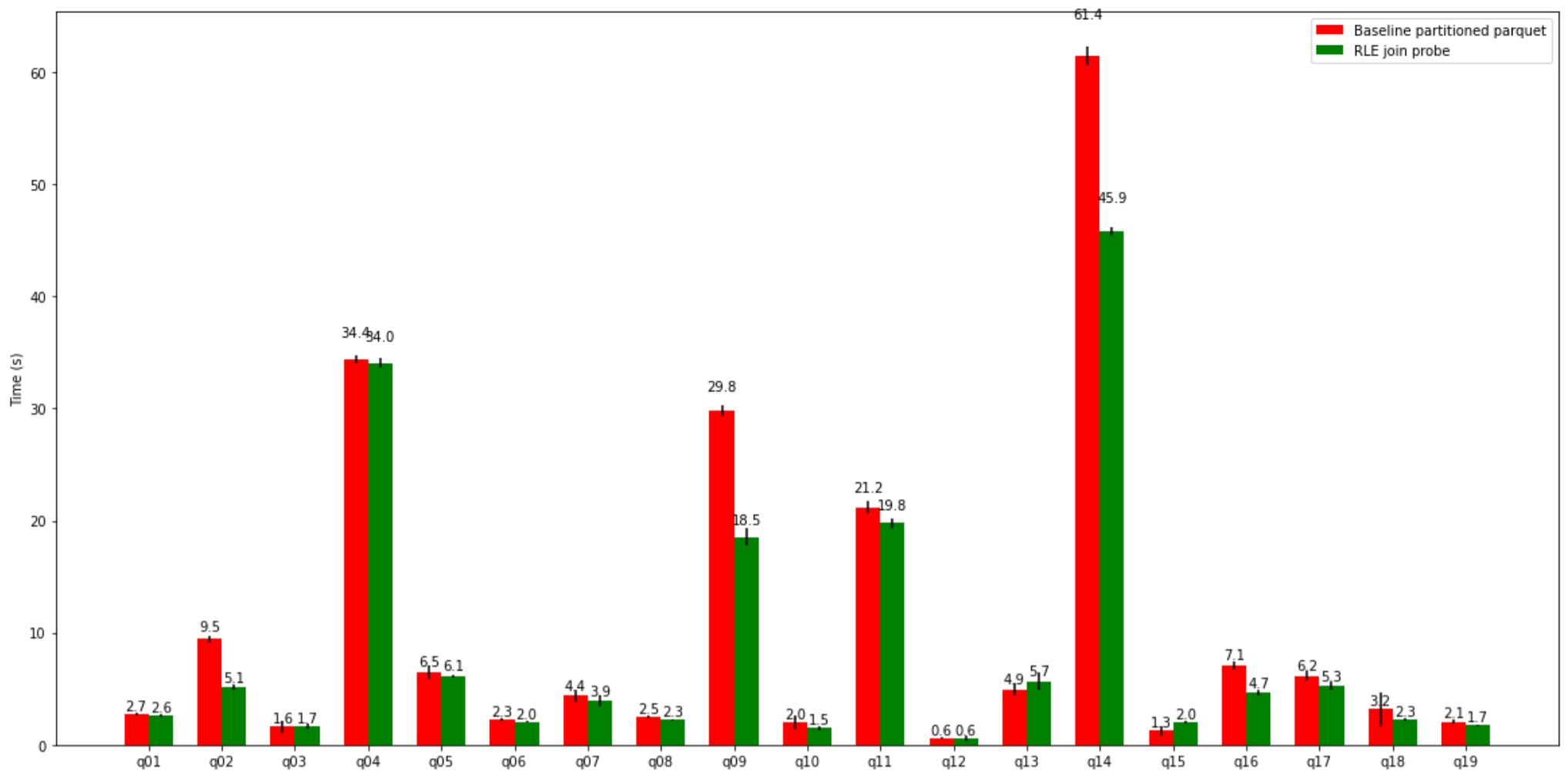
TPC-H Comparison (DURATION)

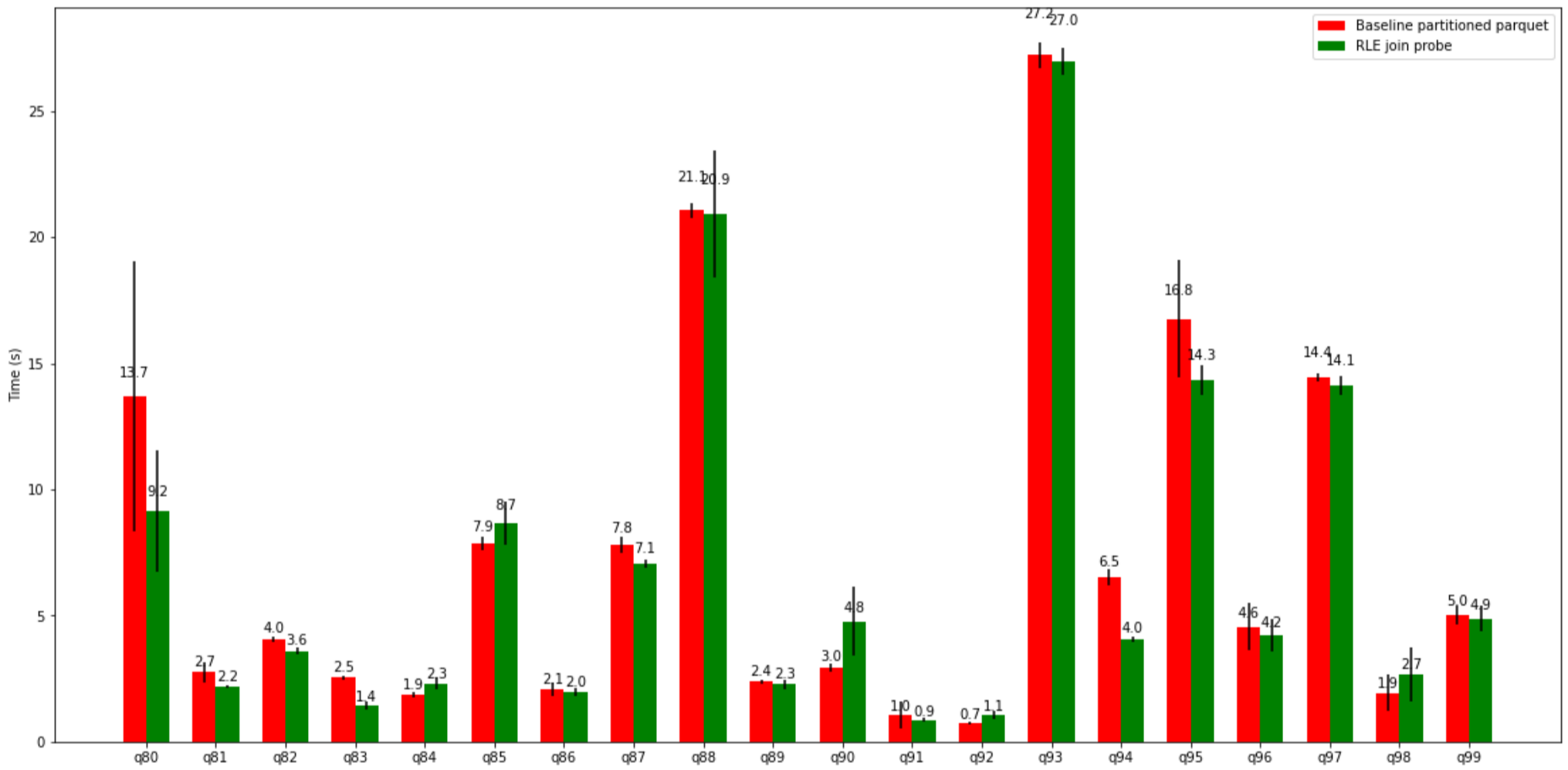
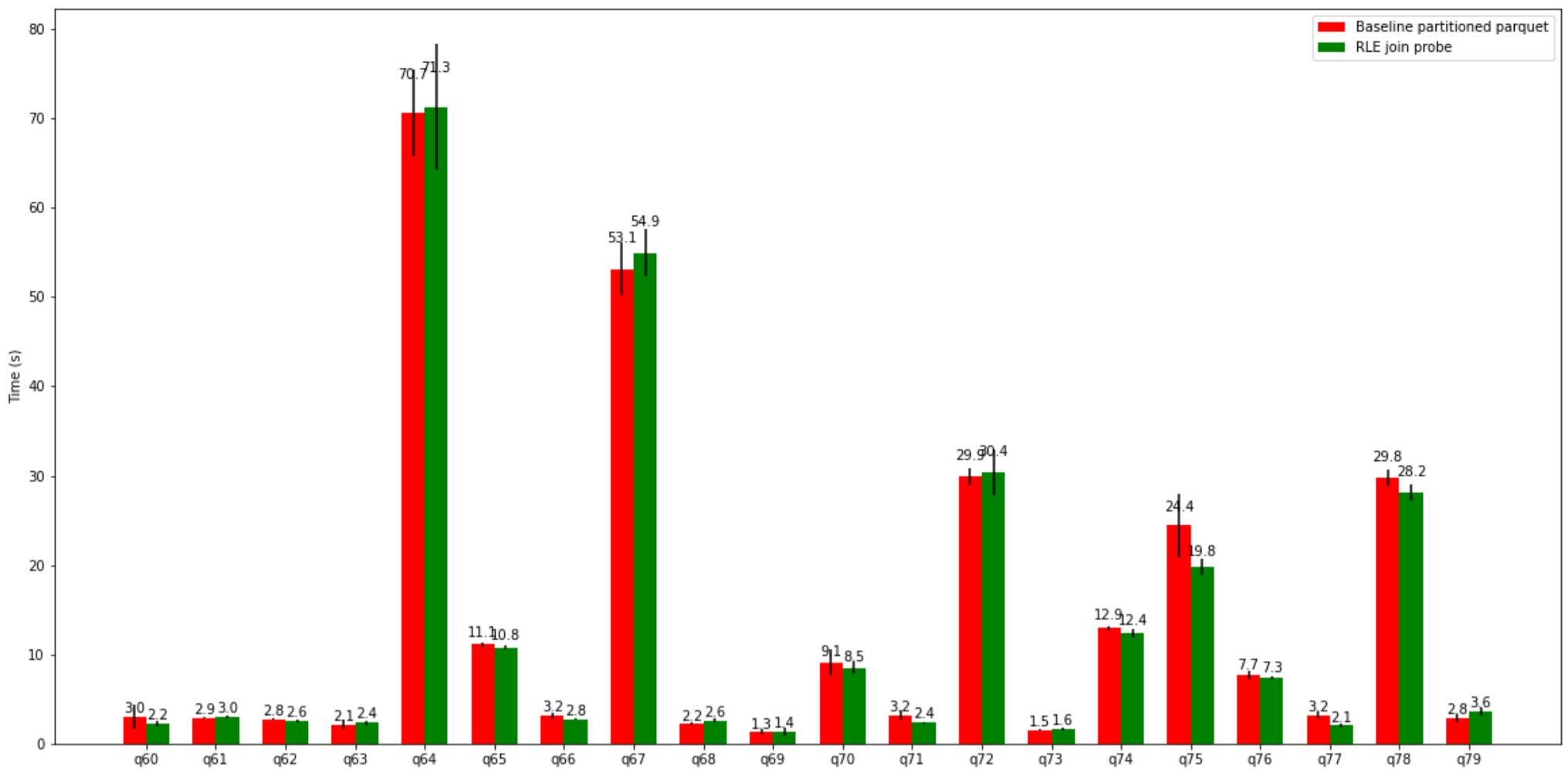




query	Baseline partitioned parquet mean	Baseline partitioned parquet std.dev	RLE join probe mean	RLE join probe std.dev
0 presto/tpch: q01	16.156667	2.050122	15.144167	0.997989
1 presto/tpch: q02	10.559167	0.293991	10.715000	1.010746
2 presto/tpch: q03	25.981667	1.766772	25.017667	1.335343
3 presto/tpch: q04	47.494333	1.104134	46.168000	1.078646
4 presto/tpch: q05	29.631500	1.287782	29.825500	1.019982
5 presto/tpch: q06	1.609833	0.086516	1.650833	0.209300
6 presto/tpch: q07	13.896667	0.257377	13.645333	0.365014
7 presto/tpch: q08	23.202167	0.869381	23.048500	1.037577
8 presto/tpch: q09	90.169333	1.922919	88.811500	4.161869
9 presto/tpch: q10	23.029333	0.548156	22.763833	0.356815
10 presto/tpch: q11	6.984667	0.188239	6.878333	0.209339
11 presto/tpch: q12	9.701500	1.307987	9.349000	0.410811
12 presto/tpch: q13	17.575833	0.648041	17.359167	0.564495
13 presto/tpch: q14	1.916000	0.060438	1.929667	0.092084
14 presto/tpch: q15	3.672167	0.135728	3.446833	0.076763
15 presto/tpch: q16	7.716000	3.272309	6.171500	0.142732
16 presto/tpch: q17	53.156833	0.702419	52.152500	2.455875
17 presto/tpch: q18	69.064167	1.770460	66.952667	2.598243
18 presto/tpch: q19	16.854167	0.458676	17.911333	4.700428
19 presto/tpch: q20	13.261500	0.341617	12.309667	0.349431
20 presto/tpch: q21	94.277500	2.170172	92.601667	1.393912
21 presto/tpch: q22	6.096667	0.264681	5.980000	0.260672

TPC-DS Comparison (DURATION)



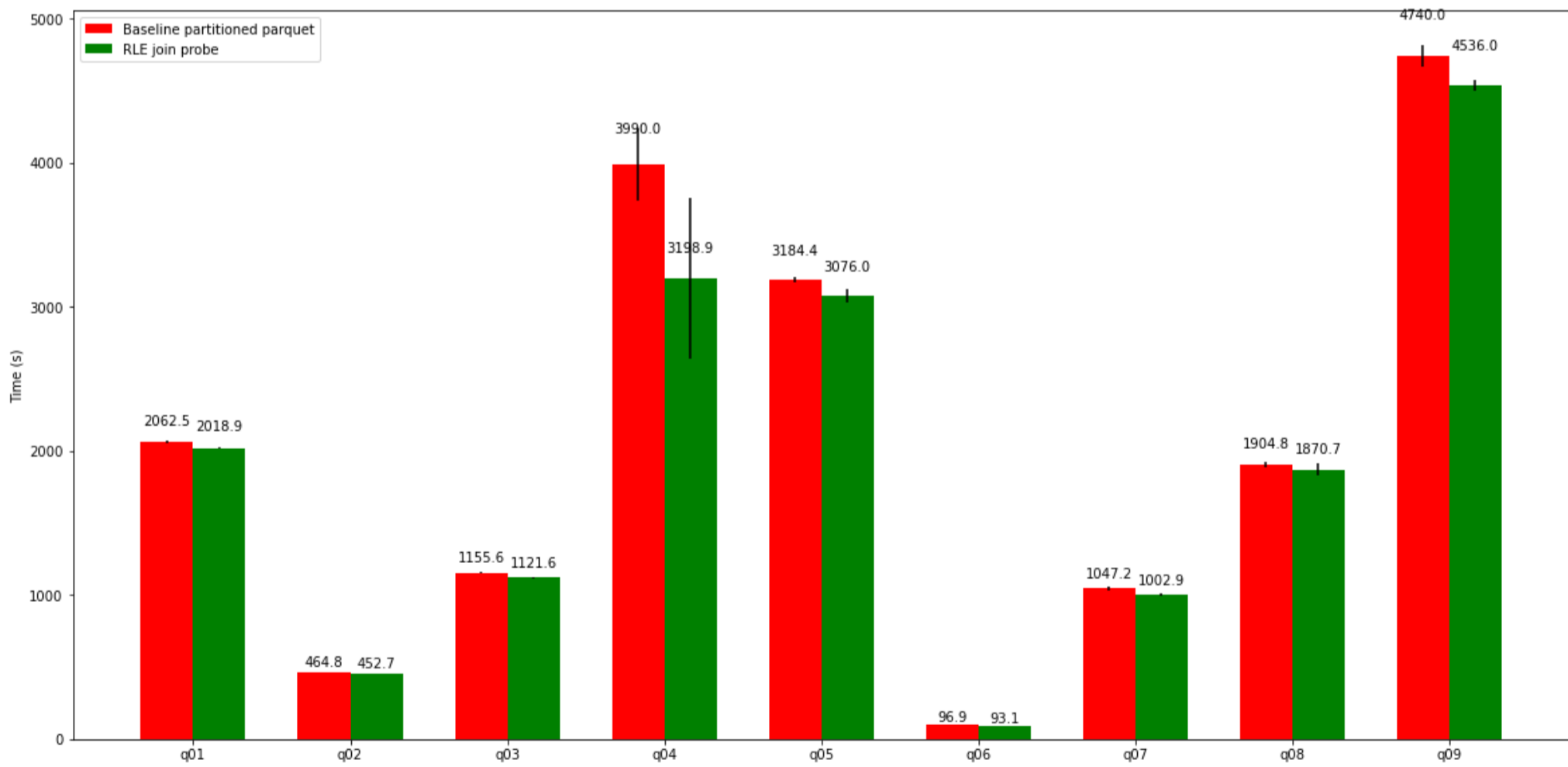


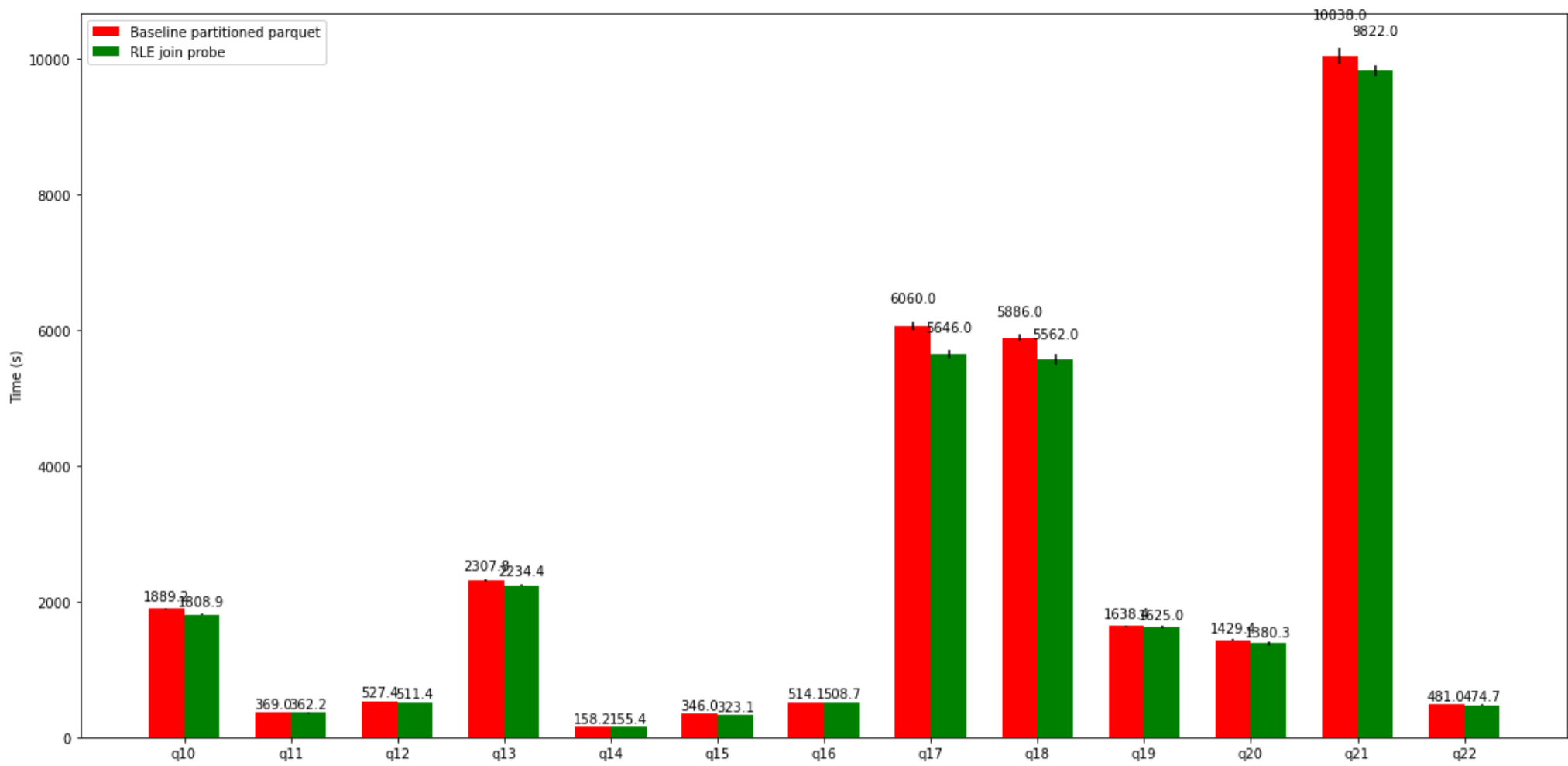
query	Baseline partitioned parquet mean	Baseline partitioned parquet std.dev	RLE join probe mean	RLE join probe std.dev
0 presto/tpcds: q01	2.749500	0.070265	2.595167	0.093553
1 presto/tpcds: q02	9.457000	0.286746	5.136167	0.205328
2 presto/tpcds: q03	1.630000	0.514893	1.692333	0.219383
3 presto/tpcds: q04	34.408333	0.374916	34.045000	0.402235
4 presto/tpcds: q05	6.508000	0.580663	6.125333	0.128834
5 presto/tpcds: q06	2.277167	0.145757	2.046333	0.082279
6 presto/tpcds: q07	4.369833	0.582532	3.925000	0.467438
7 presto/tpcds: q08	2.522167	0.133059	2.251667	0.066202
8 presto/tpcds: q09	29.822833	0.502737	18.540167	0.818601
9 presto/tpcds: q10	2.042667	0.602815	1.505833	0.187928
10 presto/tpcds: q11	21.200833	0.505213	19.783167	0.385993
11 presto/tpcds: q12	0.592333	0.066168	0.598000	0.230109
12 presto/tpcds: q13	4.943333	0.555985	5.669333	0.792407
13 presto/tpcds: q14	61.446667	0.831807	45.859000	0.359537
14 presto/tpcds: q15	1.275000	0.422468	1.989167	0.102757
15 presto/tpcds: q16	7.068500	0.310668	4.701333	0.246282
16 presto/tpcds: q17	6.161000	0.410962	5.269333	0.385632
17 presto/tpcds: q18	3.190167	1.532847	2.274000	0.083845
18 presto/tpcds: q19	2.078333	0.138611	1.736500	0.090184

	query	Baseline partitioned parquet mean	Baseline partitioned parquet std.dev	RLE join probe mean	RLE join probe std.dev
19	presto/tpcds: q20	0.661667	0.122060	0.511000	0.026503
20	presto/tpcds: q21	1.288667	0.033291	1.053167	0.053953
21	presto/tpcds: q22	4.424833	0.112743	4.378833	0.228580
22	presto/tpcds: q23	64.494167	0.609724	63.507833	0.389363
23	presto/tpcds: q24	23.318833	0.735003	22.971500	0.461688
24	presto/tpcds: q25	4.100500	0.639207	3.542833	0.197999
25	presto/tpcds: q26	2.268833	0.347985	2.994333	0.390326
26	presto/tpcds: q27	3.237000	0.634985	3.548333	0.322645
27	presto/tpcds: q28	22.888833	0.948245	23.633167	1.190922
28	presto/tpcds: q29	5.489167	0.740835	4.829833	0.166638
29	presto/tpcds: q30	1.832833	0.329447	1.504833	0.037253
30	presto/tpcds: q31	5.022833	0.266167	3.697167	0.044328
31	presto/tpcds: q32	1.078333	0.335026	1.369833	0.216995
32	presto/tpcds: q33	1.596000	0.103476	1.548833	0.106962
33	presto/tpcds: q34	2.061000	0.492526	2.307167	0.285542
34	presto/tpcds: q35	2.992333	0.321532	2.177000	0.202551
35	presto/tpcds: q36	2.328500	0.097011	3.324167	0.175348
36	presto/tpcds: q37	2.762833	0.264272	2.586333	0.166299
37	presto/tpcds: q38	7.587167	0.276408	7.091833	0.294759
38	presto/tpcds: q39	3.223833	0.214177	2.863000	0.054347
39	presto/tpcds: q40	2.398333	0.209852	2.162667	0.592448
40	presto/tpcds: q41	0.547000	0.080294	0.464833	0.053708
41	presto/tpcds: q42	1.194333	0.048817	1.498833	0.108689
42	presto/tpcds: q43	2.643500	0.690883	2.975167	0.444889
43	presto/tpcds: q44	11.810667	0.593564	11.841500	0.197513
44	presto/tpcds: q45	1.081333	0.082067	1.016667	0.076322
45	presto/tpcds: q46	2.319000	0.083716	2.826500	0.300379
46	presto/tpcds: q47	24.020167	0.161401	23.097333	0.212429
47	presto/tpcds: q48	3.754333	0.224972	4.817000	1.394685
48	presto/tpcds: q49	8.034000	0.503806	9.603000	3.967887
49	presto/tpcds: q50	5.014833	0.245497	6.014667	0.978480
50	presto/tpcds: q51	6.034333	0.194663	7.168167	0.834689
51	presto/tpcds: q52	1.817167	0.465097	1.624833	0.109478
52	presto/tpcds: q53	2.056000	0.425463	2.503333	0.218357
53	presto/tpcds: q54	5.980500	0.248031	5.842667	1.235450
54	presto/tpcds: q55	1.217500	0.147881	1.409000	0.100086
55	presto/tpcds: q56	2.199500	0.296439	1.891833	0.159303
56	presto/tpcds: q57	12.959500	0.297194	12.665667	0.477369
57	presto/tpcds: q58	4.420333	0.340833	3.539333	0.103390
58	presto/tpcds: q59	11.091500	0.217614	11.112833	0.242641
59	presto/tpcds: q60	3.019500	1.353913	2.210000	0.345345
60	presto/tpcds: q61	2.884833	0.099323	2.982333	0.153460
61	presto/tpcds: q62	2.754500	0.072495	2.587000	0.160363
62	presto/tpcds: q63	2.141167	0.490267	2.357833	0.198184
63	presto/tpcds: q64	70.663000	4.849164	71.290667	7.056320
64	presto/tpcds: q65	11.099333	0.254718	10.775500	0.253593
65	presto/tpcds: q66	3.180500	0.314586	2.754333	0.123912
66	presto/tpcds: q67	53.139333	2.944876	54.948000	2.668226
67	presto/tpcds: q68	2.195167	0.151852	2.577167	0.223428
68	presto/tpcds: q69	1.333167	0.289351	1.367167	0.479052
69	presto/tpcds: q70	9.073000	1.446609	8.513333	0.677443
70	presto/tpcds: q71	3.209167	0.555310	2.352667	0.083680
71	presto/tpcds: q72	29.930167	0.978280	30.390500	2.614417
72	presto/tpcds: q73	1.548833	0.074104	1.648333	0.110348
73	presto/tpcds: q74	12.943500	0.196431	12.380000	0.430842
74	presto/tpcds: q75	24.424333	3.556139	19.759167	0.898712
75	presto/tpcds: q76	7.672833	0.432474	7.332000	0.146339

	query	Baseline partitioned parquet mean	Baseline partitioned parquet std.dev	RLE join probe mean	RLE join probe std.dev
76	presto/tpcds: q77	3.205000	0.407864	2.053833	0.224508
77	presto/tpcds: q78	29.834167	0.918842	28.154000	0.906012
78	presto/tpcds: q79	2.781667	0.445758	3.637167	0.458951
79	presto/tpcds: q80	13.689333	5.333354	9.151333	2.424311
80	presto/tpcds: q81	2.749500	0.378464	2.188167	0.051137
81	presto/tpcds: q82	4.044667	0.100387	3.585500	0.141420
82	presto/tpcds: q83	2.539333	0.089518	1.436167	0.159679
83	presto/tpcds: q84	1.869000	0.127320	2.299167	0.238673
84	presto/tpcds: q85	7.874833	0.277245	8.652500	0.848400
85	presto/tpcds: q86	2.092500	0.260952	1.971500	0.135689
86	presto/tpcds: q87	7.804000	0.320150	7.051167	0.162591
87	presto/tpcds: q88	21.062000	0.284453	20.936000	2.513360
88	presto/tpcds: q89	2.390833	0.076324	2.268000	0.208839
89	presto/tpcds: q90	2.951167	0.167084	4.770167	1.359367
90	presto/tpcds: q91	1.048667	0.534035	0.868000	0.097806
91	presto/tpcds: q92	0.747000	0.064209	1.079000	0.163833
92	presto/tpcds: q93	27.217000	0.501056	26.980500	0.544768
93	presto/tpcds: q94	6.513833	0.305446	4.041667	0.111123
94	presto/tpcds: q95	16.754500	2.326040	14.338333	0.610100
95	presto/tpcds: q96	4.565500	0.934020	4.237167	0.650778
96	presto/tpcds: q97	14.435667	0.161131	14.130167	0.388172
97	presto/tpcds: q98	1.939167	0.704945	2.656667	1.081231
98	presto/tpcds: q99	5.040500	0.375791	4.887333	0.515416

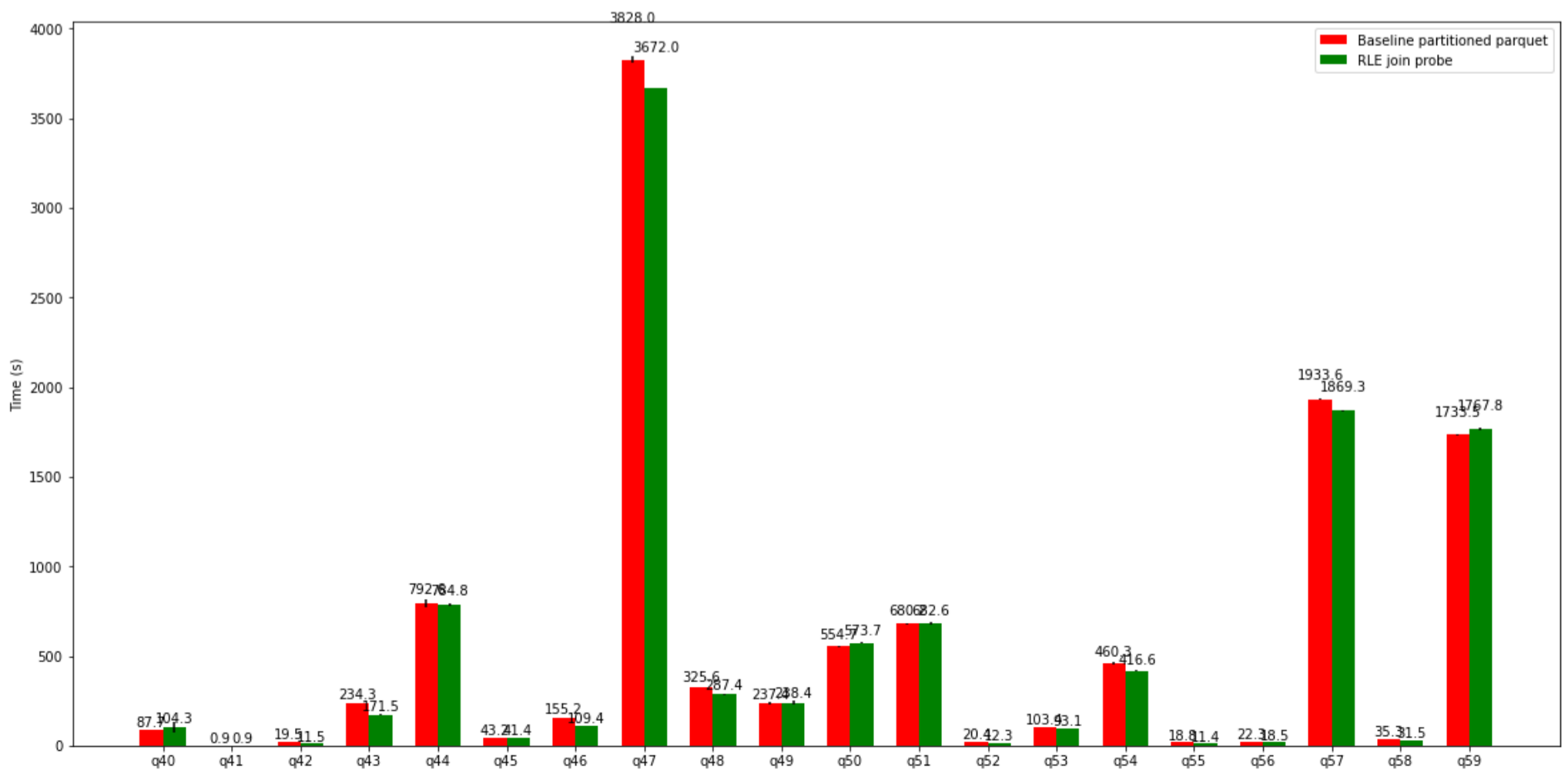
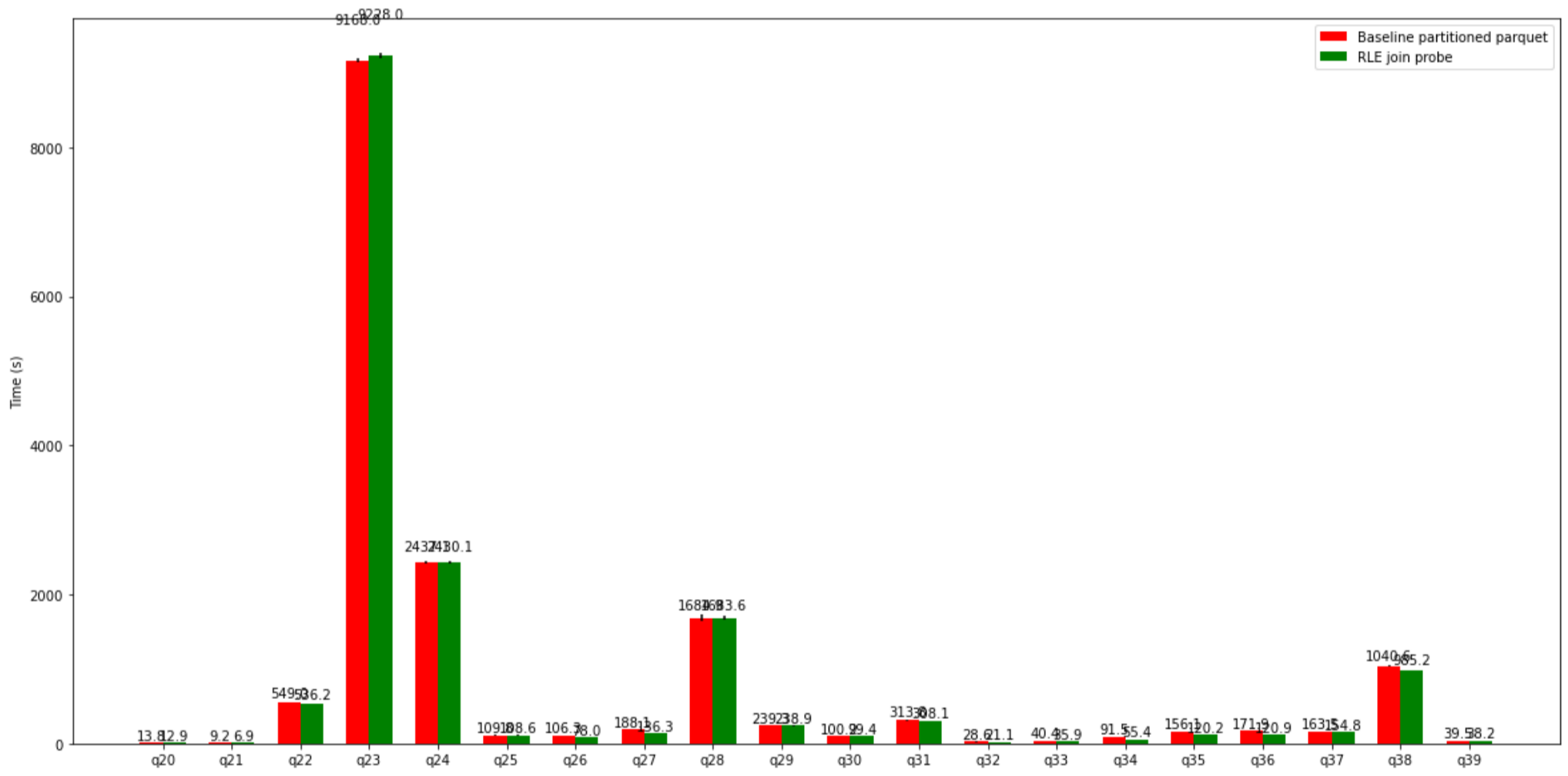
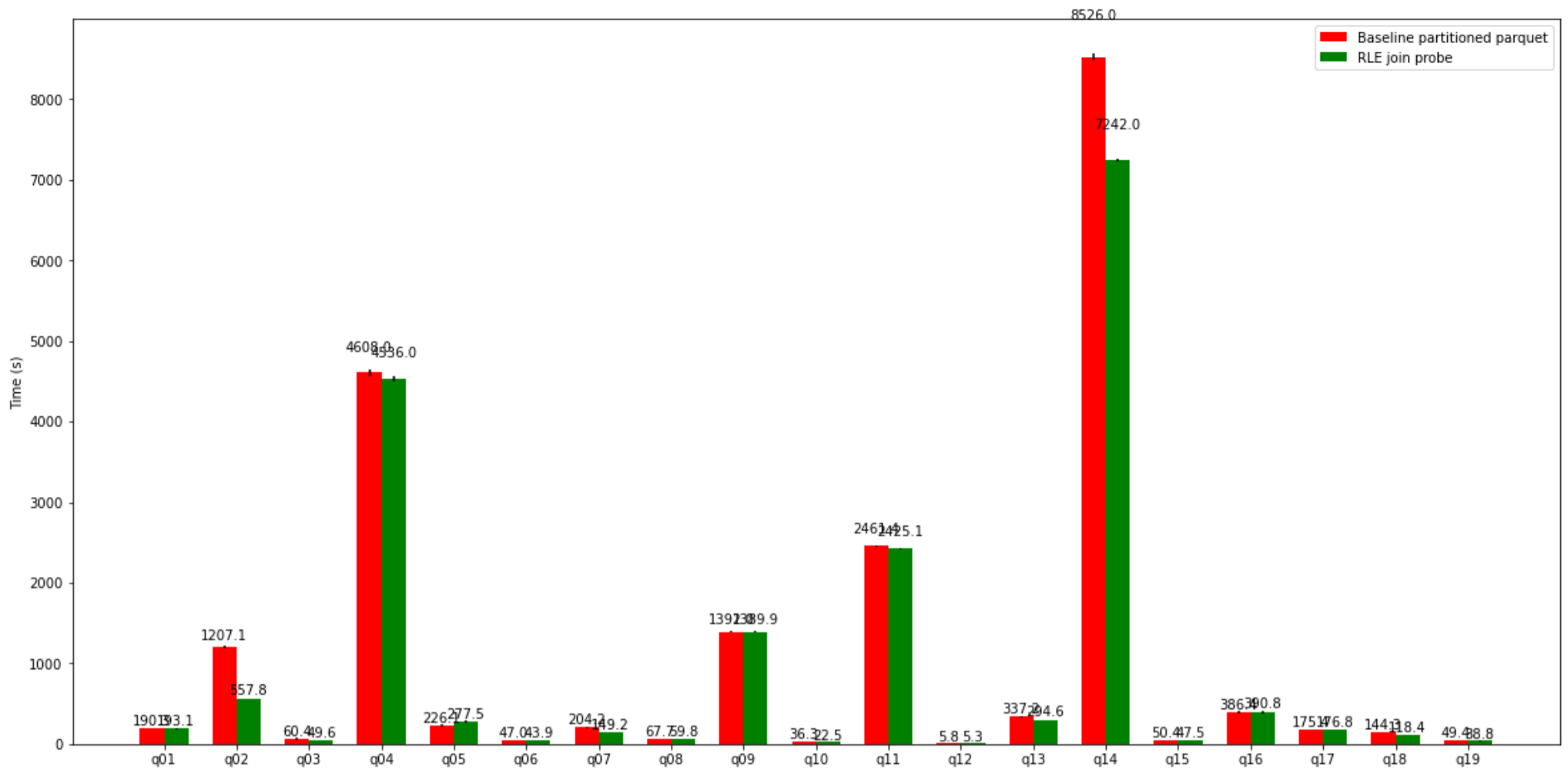
TPC-H Comparison (CPU)

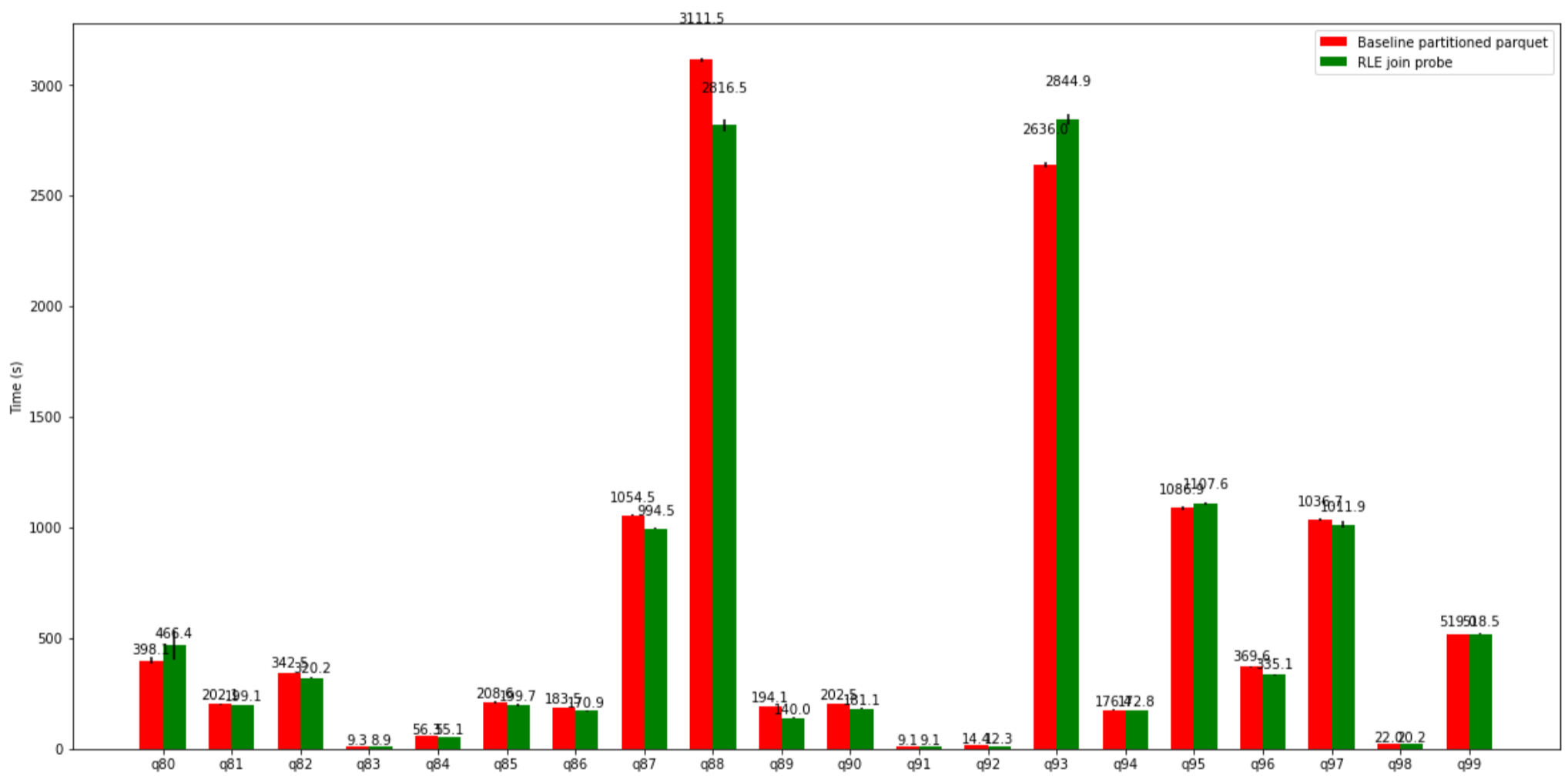
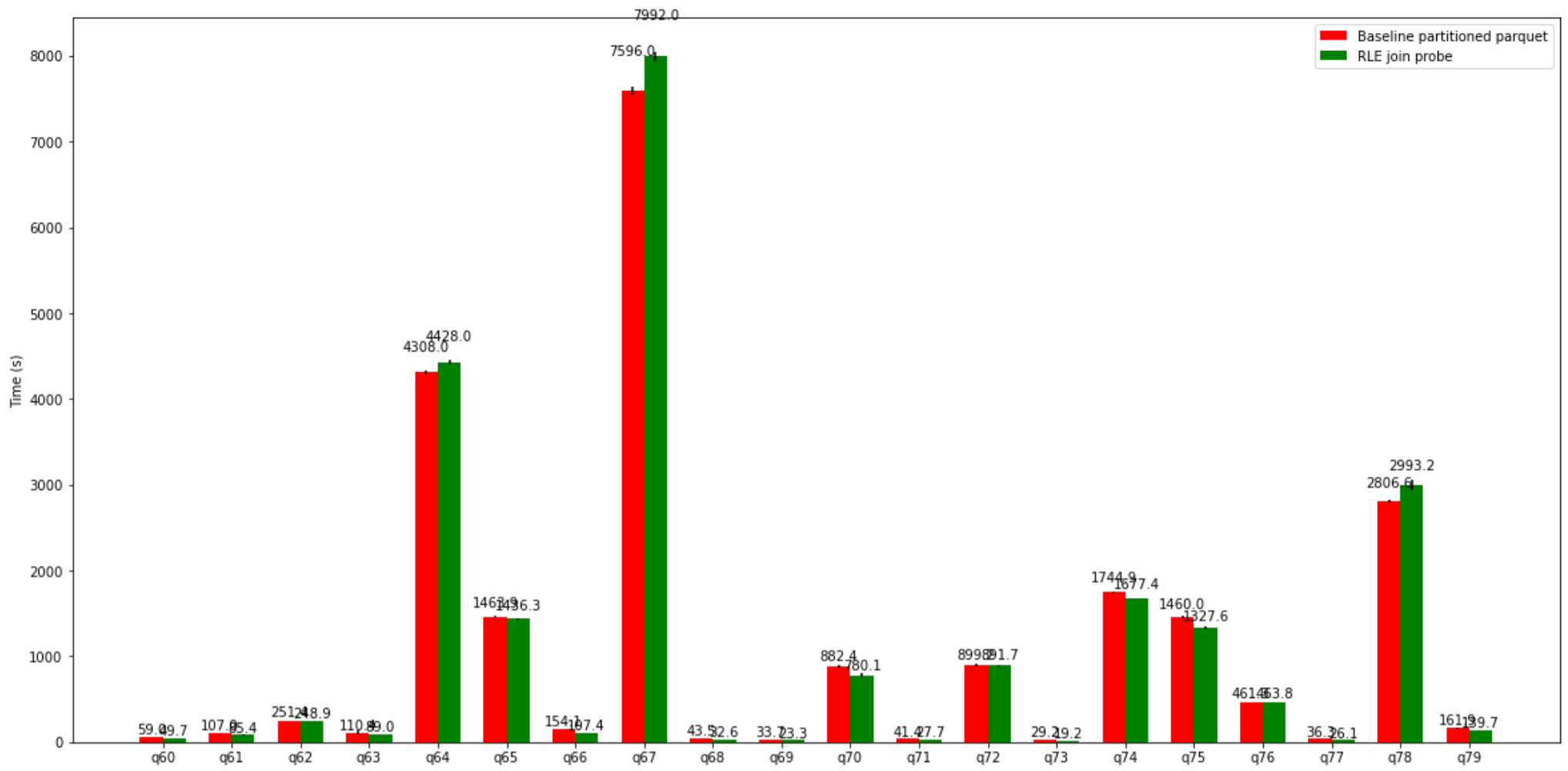




query	Baseline partitioned parquet mean	Baseline partitioned parquet std.dev	RLE join probe mean	RLE join probe std.dev
0 presto/tpch: q01	2062.5	7.774574	2018.9	5.331791
1 presto/tpch: q02	464.8	2.805708	452.7	2.756084
2 presto/tpch: q03	1155.6	3.698648	1121.6	6.019967
3 presto/tpch: q04	3990.0	249.847954	3198.9	558.902593
4 presto/tpch: q05	3184.4	19.566502	3076.0	50.147463
5 presto/tpch: q06	96.9	0.328634	93.1	0.589915
6 presto/tpch: q07	1047.2	14.242472	1002.9	9.665402
7 presto/tpch: q08	1904.8	19.048150	1870.7	43.008604
8 presto/tpch: q09	4740.0	74.361280	4536.0	39.436024
9 presto/tpch: q10	1889.2	14.507929	1808.9	15.551077
10 presto/tpch: q11	369.0	1.819890	362.2	3.429286
11 presto/tpch: q12	527.4	2.339231	511.4	2.831254
12 presto/tpch: q13	2307.8	14.282857	2234.4	10.075713
13 presto/tpch: q14	158.2	2.805708	155.4	1.517893
14 presto/tpch: q15	346.0	2.701111	323.1	3.431035
15 presto/tpch: q16	514.1	1.033441	508.7	1.224745
16 presto/tpch: q17	6060.0	54.199631	5646.0	52.990565
17 presto/tpch: q18	5886.0	49.622576	5562.0	74.651189
18 presto/tpch: q19	1638.4	6.379969	1625.0	13.061087
19 presto/tpch: q20	1429.4	8.091477	1380.3	22.516394
20 presto/tpch: q21	10038.0	114.786759	9822.0	76.931138
21 presto/tpch: q22	481.0	1.594992	474.7	4.448370

TPC-DS Comparison (CPU)



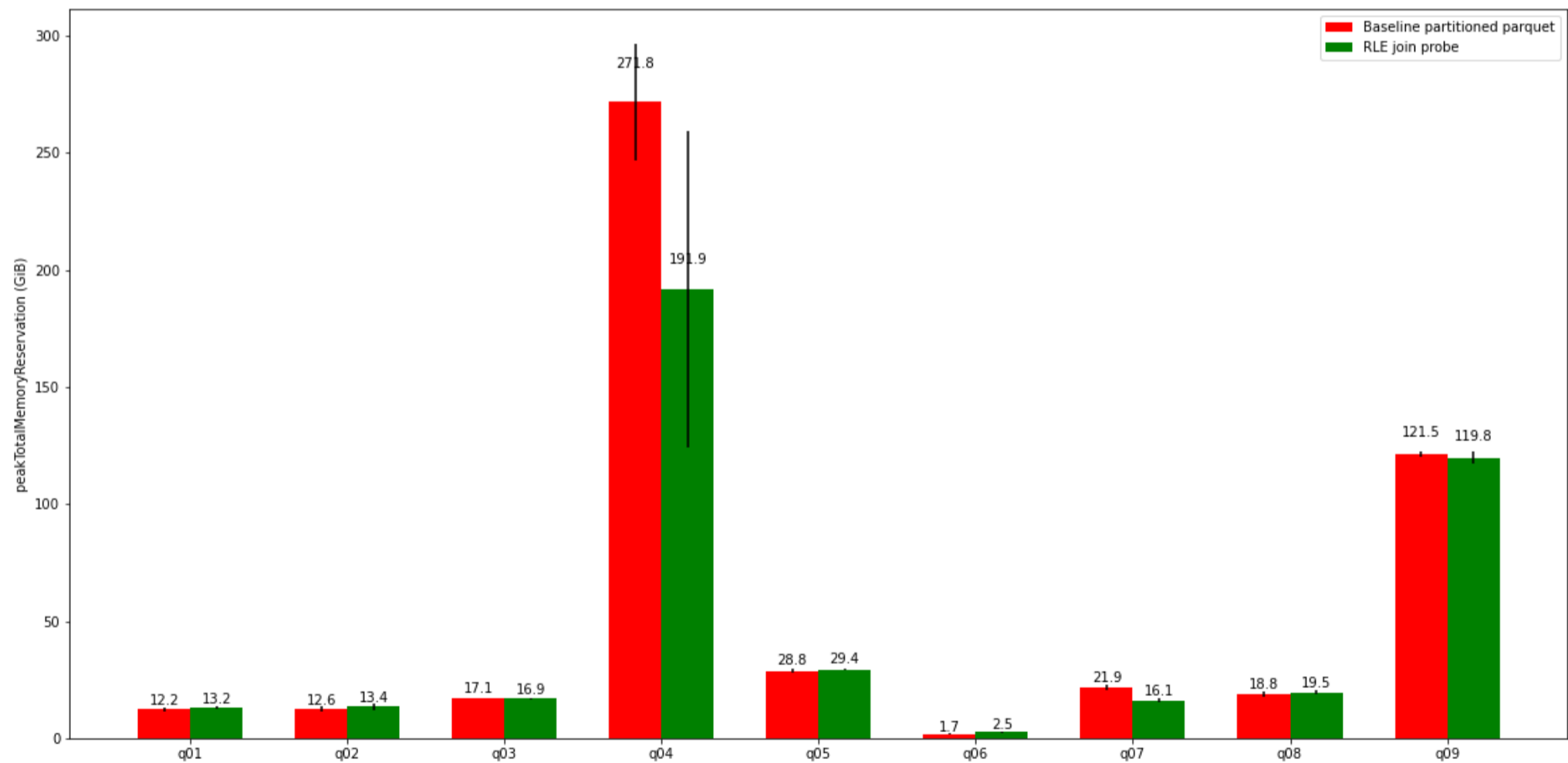


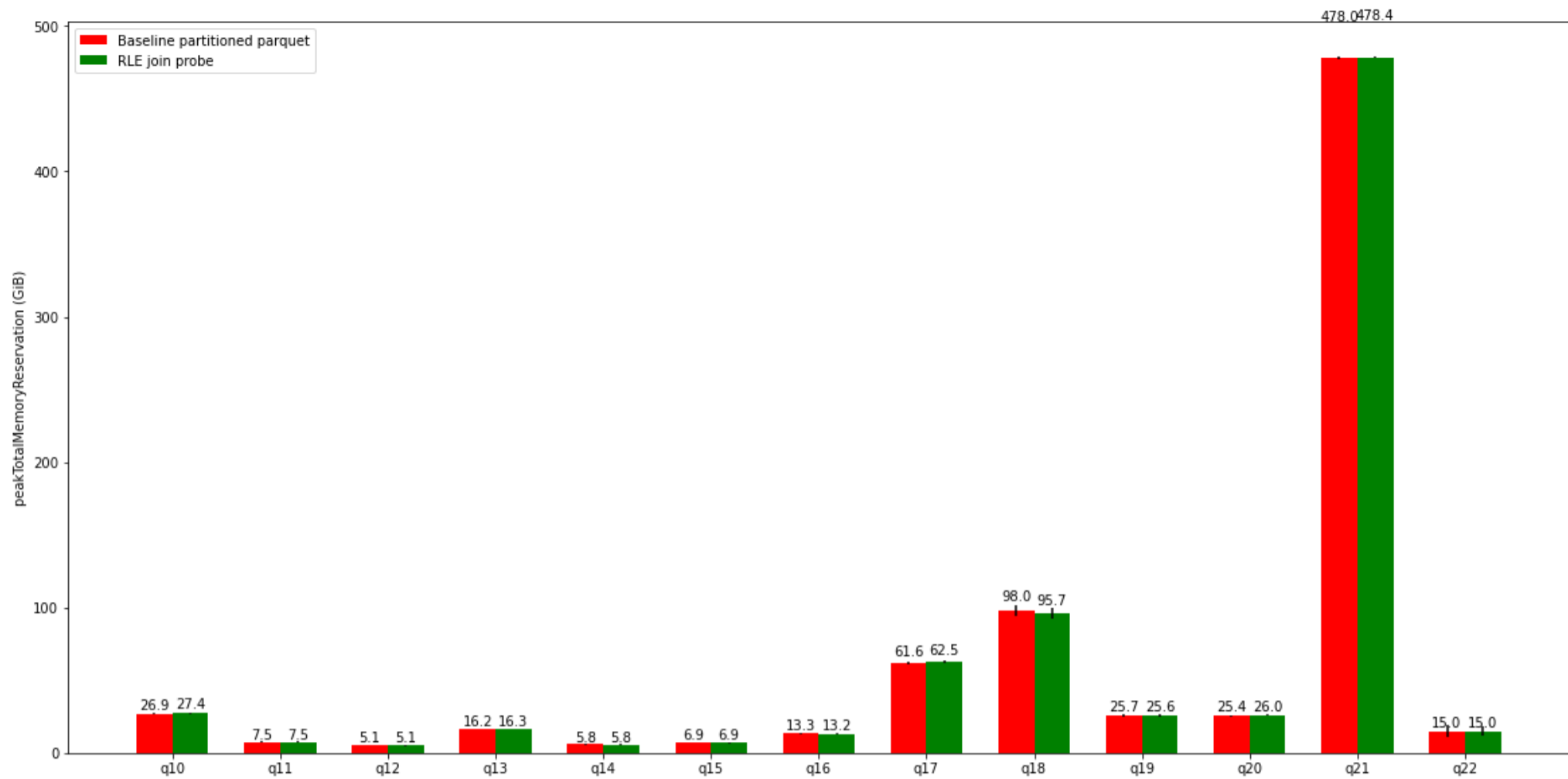
query	Baseline partitioned parquet mean	Baseline partitioned parquet std.dev	RLE join probe mean	RLE join probe std.dev
0 presto/tpcds: q01	190.300000	2.058155	193.100000	6.088350
1 presto/tpcds: q02	1207.100000	11.150426	557.800000	0.726636
2 presto/tpcds: q03	60.428333	18.912239	49.551667	0.958403
3 presto/tpcds: q04	4608.000000	39.436024	4536.000000	32.199379
4 presto/tpcds: q05	226.100000	21.691196	277.500000	19.240270
5 presto/tpcds: q06	47.031667	0.266865	43.923333	0.623014
6 presto/tpcds: q07	204.200000	2.266274	149.200000	2.297825
7 presto/tpcds: q08	67.700000	1.033441	59.841667	0.211510
8 presto/tpcds: q09	1392.000000	9.562426	1389.900000	7.227448
9 presto/tpcds: q10	36.308333	0.289787	22.525000	0.960849
10 presto/tpcds: q11	2461.400000	7.856717	2425.100000	10.566930
11 presto/tpcds: q12	5.773333	0.030111	5.306667	0.033267
12 presto/tpcds: q13	337.200000	7.027944	294.600000	7.767625
13 presto/tpcds: q14	8526.000000	42.085627	7242.000000	14.696938
14 presto/tpcds: q15	50.383333	0.293098	47.536667	0.082381
15 presto/tpcds: q16	386.400000	16.545211	390.800000	14.023409
16 presto/tpcds: q17	175.400000	3.826225	176.800000	6.103114
17 presto/tpcds: q18	144.300000	0.328634	118.400000	1.050714
18 presto/tpcds: q19	49.368333	1.183966	38.750000	1.409198

	query	Baseline partitioned parquet mean	Baseline partitioned parquet std.dev	RLE join probe mean	RLE join probe std.dev
19	presto/tpcds: q20	13.796667	0.058538	12.941667	0.059805
20	presto/tpcds: q21	9.198333	0.137901	6.911667	0.206244
21	presto/tpcds: q22	549.000000	1.697056	536.200000	1.922498
22	presto/tpcds: q23	9168.000000	18.590320	9228.000000	37.180640
23	presto/tpcds: q24	2437.100000	20.049040	2430.100000	14.382072
24	presto/tpcds: q25	109.800000	6.924738	108.600000	7.674373
25	presto/tpcds: q26	106.300000	1.033441	78.000000	1.003992
26	presto/tpcds: q27	188.100000	1.300769	136.300000	1.389964
27	presto/tpcds: q28	1684.900000	42.635337	1683.600000	30.659941
28	presto/tpcds: q29	239.300000	1.224745	238.900000	1.913113
29	presto/tpcds: q30	100.200000	0.379473	99.400000	1.050714
30	presto/tpcds: q31	313.800000	4.441621	308.100000	0.629285
31	presto/tpcds: q32	28.578333	9.716391	21.120000	0.721166
32	presto/tpcds: q33	40.396667	0.340568	35.901667	0.816270
33	presto/tpcds: q34	91.500000	0.501996	55.355000	0.692553
34	presto/tpcds: q35	156.100000	3.273530	120.200000	4.913654
35	presto/tpcds: q36	171.900000	0.734847	120.900000	1.809972
36	presto/tpcds: q37	163.500000	0.629285	154.800000	1.138420
37	presto/tpcds: q38	1040.600000	3.051557	985.200000	2.488373
38	presto/tpcds: q39	39.545000	0.627718	38.208333	0.445395
39	presto/tpcds: q40	87.700000	1.583667	104.300000	30.197152
40	presto/tpcds: q41	0.892000	0.014367	0.884833	0.007441
41	presto/tpcds: q42	19.495000	0.091597	11.533333	0.302765
42	presto/tpcds: q43	234.300000	1.300769	171.500000	1.672124
43	presto/tpcds: q44	792.600000	19.688779	784.800000	8.760822
44	presto/tpcds: q45	43.170000	1.214874	41.373333	0.556908
45	presto/tpcds: q46	155.200000	0.979796	109.400000	2.297825
46	presto/tpcds: q47	3828.000000	18.590320	3672.000000	0.000000
47	presto/tpcds: q48	325.600000	2.536139	287.400000	4.553680
48	presto/tpcds: q49	237.400000	7.557777	238.400000	9.041239
49	presto/tpcds: q50	554.700000	4.169892	573.700000	1.489966
50	presto/tpcds: q51	680.200000	2.779928	682.600000	6.185143
51	presto/tpcds: q52	20.443333	0.334644	12.260000	0.282064
52	presto/tpcds: q53	103.400000	0.619677	93.100000	1.164474
53	presto/tpcds: q54	460.300000	9.181503	416.600000	4.321111
54	presto/tpcds: q55	18.845000	0.067157	11.365000	0.219157
55	presto/tpcds: q56	22.275000	0.277759	18.536667	0.350866
56	presto/tpcds: q57	1933.600000	4.133763	1869.300000	4.944087
57	presto/tpcds: q58	35.338333	0.251190	31.473333	0.448806
58	presto/tpcds: q59	1733.500000	4.982770	1767.800000	5.559856
59	presto/tpcds: q60	59.018333	0.576382	49.730000	0.459913
60	presto/tpcds: q61	107.000000	0.309839	85.400000	8.969281
61	presto/tpcds: q62	251.400000	1.314534	248.900000	2.773446
62	presto/tpcds: q63	110.400000	25.579992	89.000000	1.296148
63	presto/tpcds: q64	4308.000000	18.590320	4428.000000	22.768399
64	presto/tpcds: q65	1463.900000	6.100164	1436.300000	7.143948
65	presto/tpcds: q66	154.100000	0.797496	107.400000	1.003992
66	presto/tpcds: q67	7596.000000	50.911688	7992.000000	50.911688
67	presto/tpcds: q68	43.455000	0.304023	32.633333	0.643294
68	presto/tpcds: q69	33.693333	0.661624	23.278333	0.331024
69	presto/tpcds: q70	882.400000	21.323790	780.100000	28.271187
70	presto/tpcds: q71	41.425000	2.438965	27.738333	1.327621
71	presto/tpcds: q72	899.200000	9.438644	891.700000	7.706361
72	presto/tpcds: q73	29.225000	0.054681	19.171667	0.391582
73	presto/tpcds: q74	1744.900000	9.489995	1677.400000	4.794997
74	presto/tpcds: q75	1460.000000	15.496580	1327.600000	17.886308
75	presto/tpcds: q76	461.300000	0.883176	463.800000	3.035787

query	Baseline partitioned parquet mean	Baseline partitioned parquet std.dev	RLE join probe mean	RLE join probe std.dev	
76	presto/tpcds: q77	36.318333	0.357291	26.075000	0.249540
77	presto/tpcds: q78	2806.600000	19.522295	2993.200000	61.907286
78	presto/tpcds: q79	161.900000	1.913113	139.700000	1.489966
79	presto/tpcds: q80	398.100000	13.591026	466.400000	66.168512
80	presto/tpcds: q81	202.100000	1.714643	199.100000	1.337161
81	presto/tpcds: q82	342.500000	1.100909	320.200000	1.179830
82	presto/tpcds: q83	9.348333	0.708955	8.908333	0.977720
83	presto/tpcds: q84	56.321667	0.216094	55.093333	0.345118
84	presto/tpcds: q85	208.600000	4.219953	199.700000	5.646592
85	presto/tpcds: q86	183.500000	0.451664	170.900000	0.451664
86	presto/tpcds: q87	1054.500000	1.925617	994.500000	2.362202
87	presto/tpcds: q88	3111.500000	8.360622	2816.500000	27.488689
88	presto/tpcds: q89	194.100000	0.328634	140.000000	1.884675
89	presto/tpcds: q90	202.500000	1.056409	181.100000	1.986957
90	presto/tpcds: q91	9.145000	0.800219	9.088333	0.871422
91	presto/tpcds: q92	14.386667	0.183703	12.258333	0.336298
92	presto/tpcds: q93	2636.000000	12.300244	2844.900000	24.056184
93	presto/tpcds: q94	176.400000	0.848528	172.800000	1.073313
94	presto/tpcds: q95	1086.900000	6.481666	1107.600000	5.891010
95	presto/tpcds: q96	369.600000	1.609969	335.100000	2.171635
96	presto/tpcds: q97	1036.700000	6.970509	1011.900000	15.681709
97	presto/tpcds: q98	21.973333	0.187901	20.168333	0.213768
98	presto/tpcds: q99	519.000000	0.929516	518.500000	2.949576

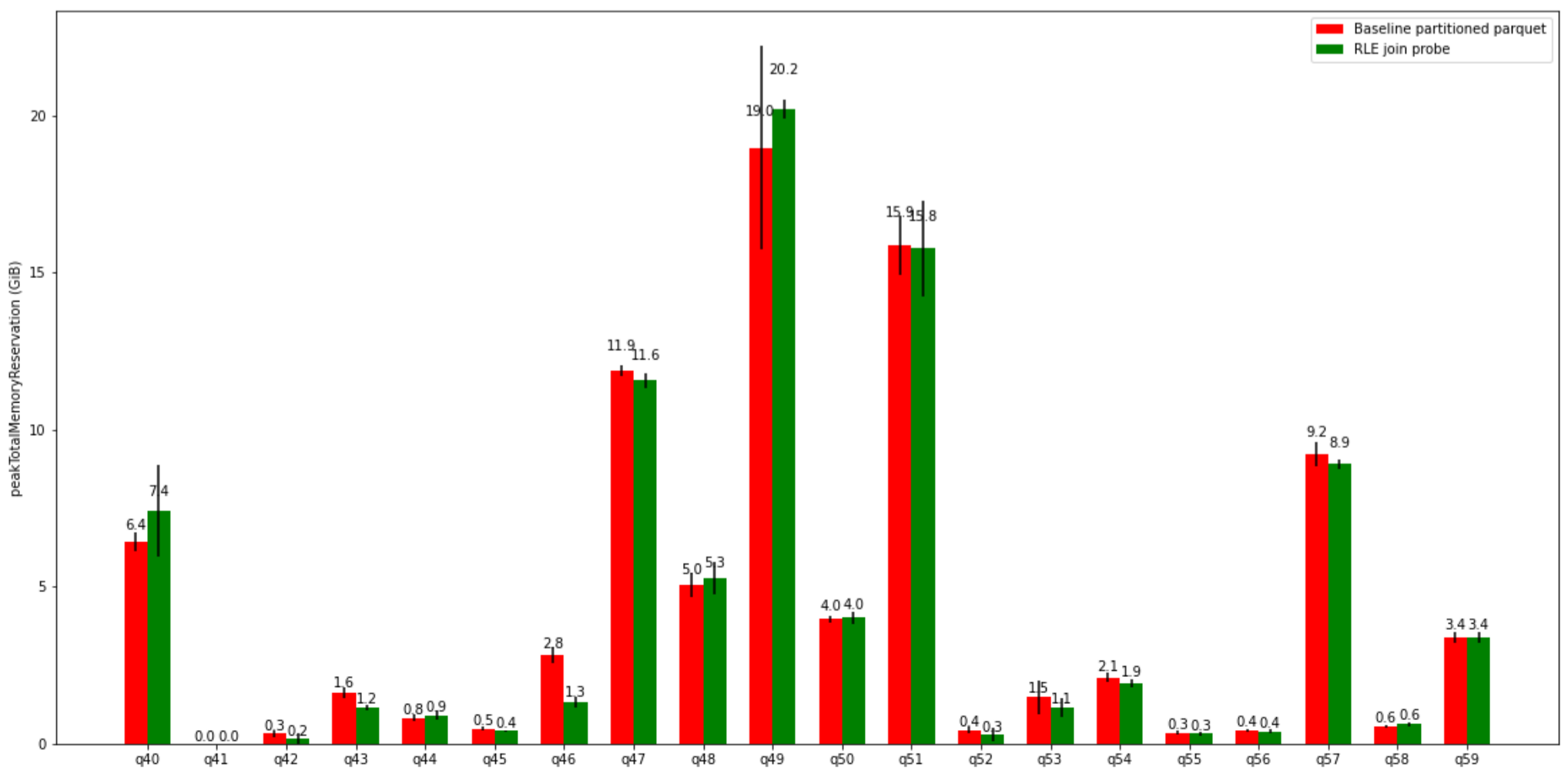
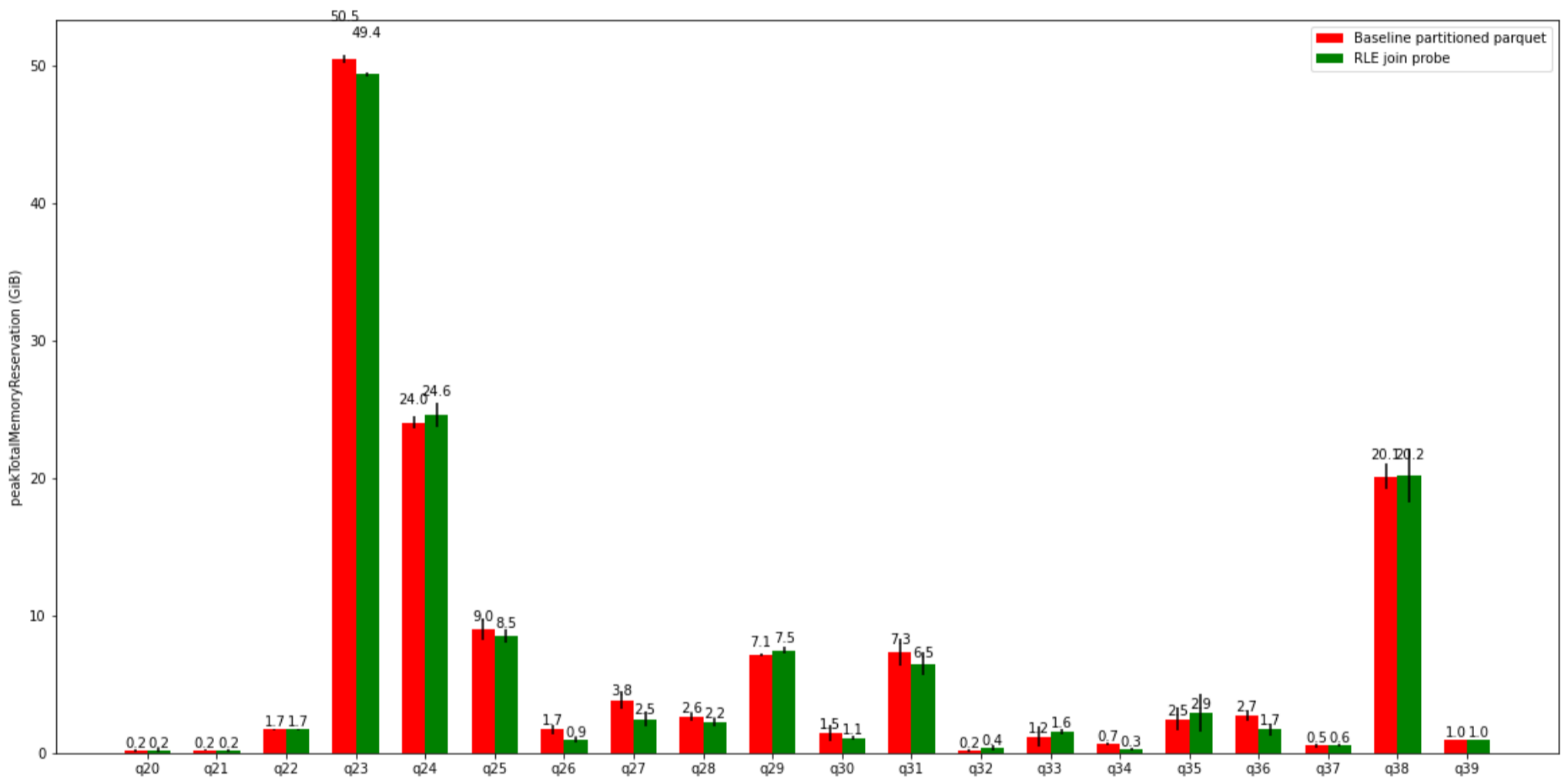
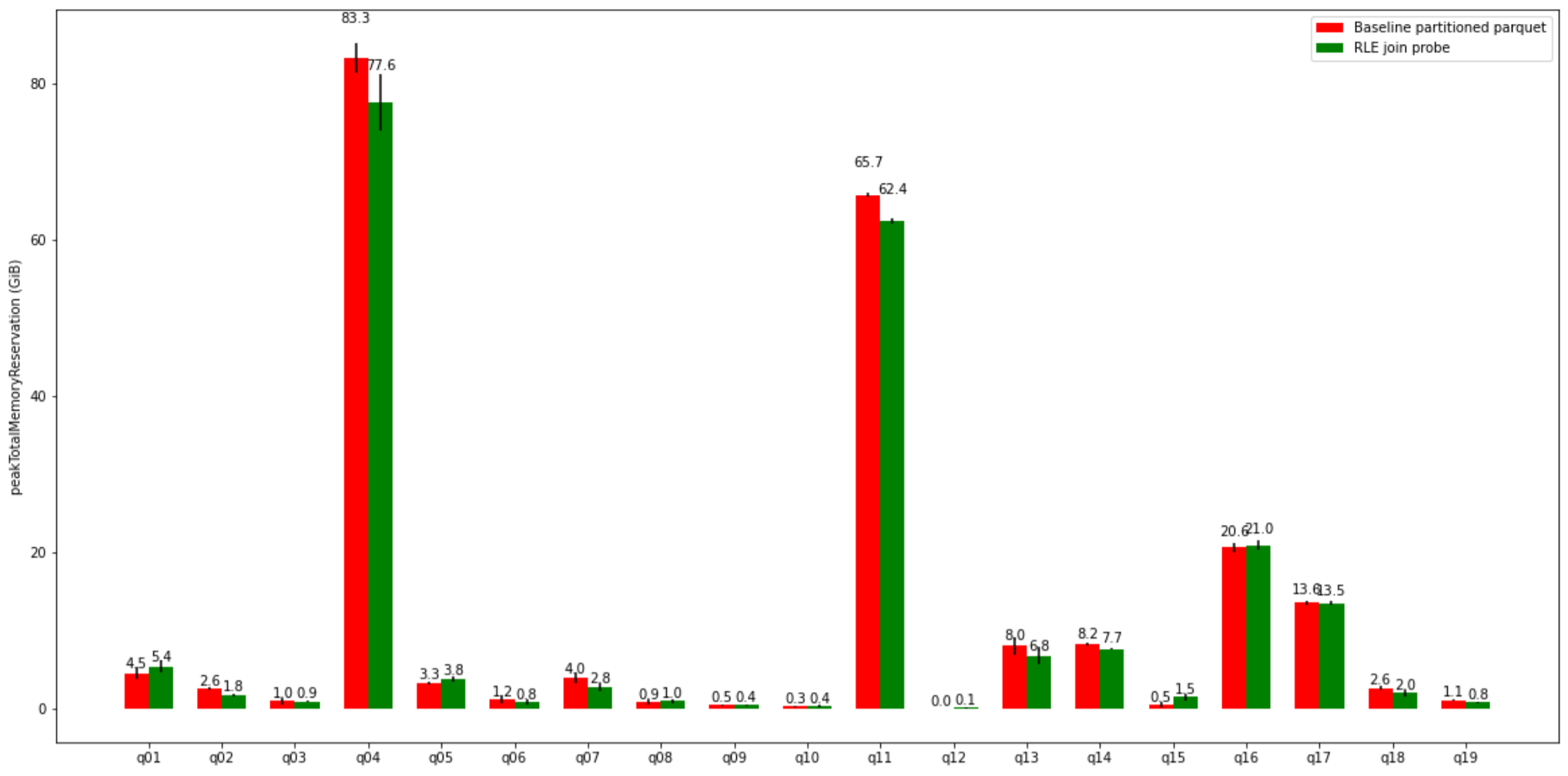
TPC-H Comparison (Peak memory)

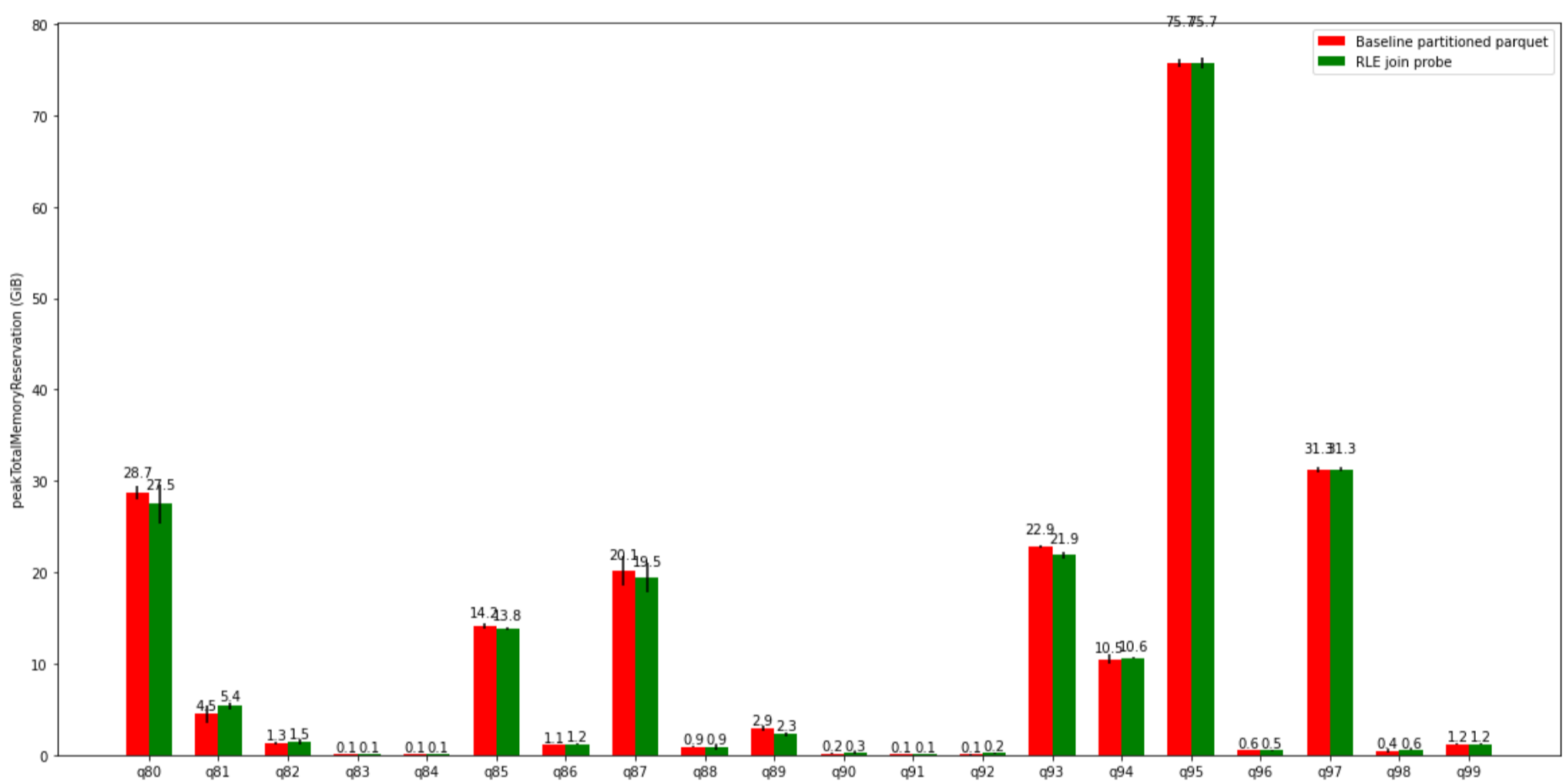
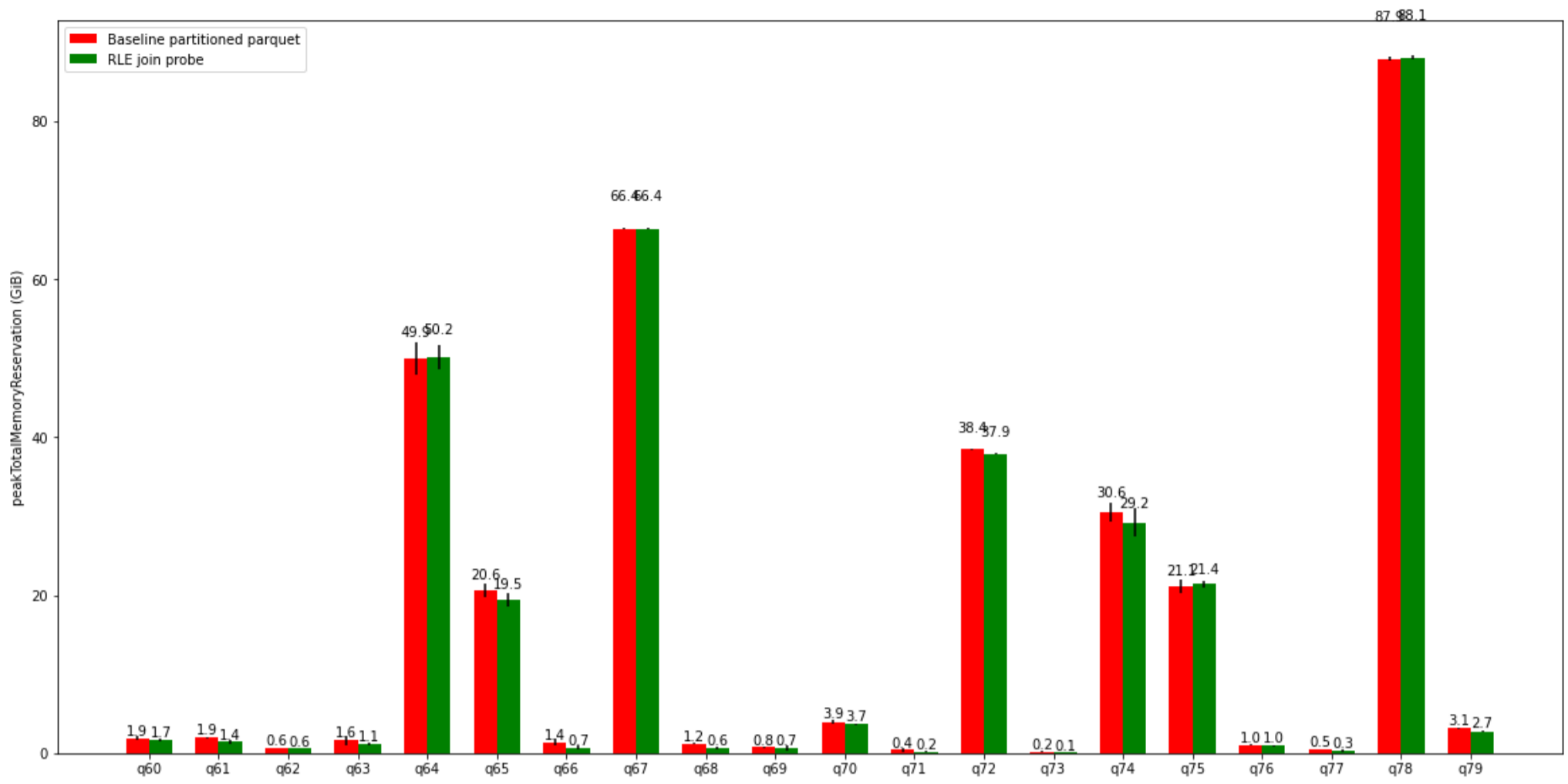




query	Baseline partitioned parquet mean	Baseline partitioned parquet std.dev	RLE join probe mean	RLE join probe std.dev
0 presto/tpch: q01	12.245 GiB	747.816 MiB	13.167 GiB	499.078 MiB
1 presto/tpch: q02	12.554 GiB	0.970 GiB	13.384 GiB	1.270 GiB
2 presto/tpch: q03	17.074 GiB	108.375 MiB	16.856 GiB	488.142 MiB
3 presto/tpch: q04	271.752 GiB	24.764 GiB	191.937 GiB	67.631 GiB
4 presto/tpch: q05	28.767 GiB	744.103 MiB	29.352 GiB	426.963 MiB
5 presto/tpch: q06	1.736 GiB	264.852 MiB	2.477 GiB	246.930 MiB
6 presto/tpch: q07	21.851 GiB	1.086 GiB	16.091 GiB	754.567 MiB
7 presto/tpch: q08	18.757 GiB	1.079 GiB	19.476 GiB	0.946 GiB
8 presto/tpch: q09	121.457 GiB	1.180 GiB	119.804 GiB	2.482 GiB
9 presto/tpch: q10	26.906 GiB	380.165 MiB	27.353 GiB	353.831 MiB
10 presto/tpch: q11	7.549 GiB	598.656 MiB	7.528 GiB	721.116 MiB
11 presto/tpch: q12	5.107 GiB	131.380 MiB	5.066 GiB	203.567 MiB
12 presto/tpch: q13	16.225 GiB	184.019 MiB	16.315 GiB	276.214 MiB
13 presto/tpch: q14	5.834 GiB	102.658 MiB	5.819 GiB	133.995 MiB
14 presto/tpch: q15	6.913 GiB	123.520 MiB	6.924 GiB	226.954 MiB
15 presto/tpch: q16	13.273 GiB	234.989 MiB	13.151 GiB	122.895 MiB
16 presto/tpch: q17	61.612 GiB	766.354 MiB	62.464 GiB	818.085 MiB
17 presto/tpch: q18	98.046 GiB	3.818 GiB	95.676 GiB	3.708 GiB
18 presto/tpch: q19	25.715 GiB	893.162 MiB	25.552 GiB	1.006 GiB
19 presto/tpch: q20	25.445 GiB	385.151 MiB	25.955 GiB	552.400 MiB
20 presto/tpch: q21	477.954 GiB	0.991 GiB	478.363 GiB	503.532 MiB
21 presto/tpch: q22	15.042 GiB	3.738 GiB	14.968 GiB	3.357 GiB

TPC-DS Comparison (Peak memory)





query	Baseline partitioned parquet mean	Baseline partitioned parquet std.dev	RLE join probe mean	RLE join probe std.dev
0 presto/tpcds: q01	4.545 GiB	780.780 MiB	5.401 GiB	762.428 MiB
1 presto/tpcds: q02	2.552 GiB	214.028 MiB	1.753 GiB	133.919 MiB
2 presto/tpcds: q03	0.980 GiB	431.621 MiB	0.920 GiB	86.149 MiB
3 presto/tpcds: q04	83.318 GiB	1.873 GiB	77.586 GiB	3.552 GiB
4 presto/tpcds: q05	3.284 GiB	193.338 MiB	3.809 GiB	427.024 MiB
5 presto/tpcds: q06	1.230 GiB	452.220 MiB	823.813 MiB	348.839 MiB
6 presto/tpcds: q07	4.013 GiB	685.628 MiB	2.830 GiB	539.525 MiB
7 presto/tpcds: q08	936.709 MiB	316.516 MiB	1.020 GiB	292.965 MiB
8 presto/tpcds: q09	501.915 MiB	58.020 MiB	457.118 MiB	41.553 MiB
9 presto/tpcds: q10	283.501 MiB	86.940 MiB	386.957 MiB	109.382 MiB
10 presto/tpcds: q11	65.720 GiB	279.404 MiB	62.356 GiB	343.214 MiB
11 presto/tpcds: q12	43.520 MiB	27.489 MiB	108.980 MiB	111.393 MiB
12 presto/tpcds: q13	8.049 GiB	1.054 GiB	6.764 GiB	1.122 GiB
13 presto/tpcds: q14	8.249 GiB	170.570 MiB	7.681 GiB	117.626 MiB
14 presto/tpcds: q15	470.931 MiB	342.039 MiB	1.522 GiB	434.095 MiB
15 presto/tpcds: q16	20.628 GiB	548.516 MiB	20.954 GiB	567.983 MiB
16 presto/tpcds: q17	13.592 GiB	246.493 MiB	13.535 GiB	313.173 MiB
17 presto/tpcds: q18	2.633 GiB	254.382 MiB	1.998 GiB	453.482 MiB

	query	Baseline partitioned parquet mean	Baseline partitioned parquet std.dev	RLE join probe mean	RLE join probe std.dev
18	presto/tpcds: q19	1.112 GiB	142.606 MiB	832.280 MiB	85.656 MiB
19	presto/tpcds: q20	158.893 MiB	112.438 MiB	225.142 MiB	171.874 MiB
20	presto/tpcds: q21	216.485 MiB	19.557 MiB	186.457 MiB	56.562 MiB
21	presto/tpcds: q22	1.702 GiB	24.070 MiB	1.718 GiB	50.039 MiB
22	presto/tpcds: q23	50.501 GiB	277.995 MiB	49.381 GiB	129.887 MiB
23	presto/tpcds: q24	24.028 GiB	432.639 MiB	24.561 GiB	916.712 MiB
24	presto/tpcds: q25	8.967 GiB	815.502 MiB	8.526 GiB	466.532 MiB
25	presto/tpcds: q26	1.725 GiB	364.702 MiB	0.943 GiB	178.261 MiB
26	presto/tpcds: q27	3.826 GiB	659.350 MiB	2.466 GiB	563.108 MiB
27	presto/tpcds: q28	2.600 GiB	301.489 MiB	2.239 GiB	281.052 MiB
28	presto/tpcds: q29	7.138 GiB	90.349 MiB	7.455 GiB	244.808 MiB
29	presto/tpcds: q30	1.463 GiB	608.824 MiB	1.095 GiB	173.193 MiB
30	presto/tpcds: q31	7.326 GiB	0.956 GiB	6.481 GiB	853.889 MiB
31	presto/tpcds: q32	158.215 MiB	108.536 MiB	409.237 MiB	208.797 MiB
32	presto/tpcds: q33	1.193 GiB	759.288 MiB	1.570 GiB	207.537 MiB
33	presto/tpcds: q34	692.176 MiB	87.662 MiB	304.849 MiB	110.328 MiB
34	presto/tpcds: q35	2.451 GiB	848.148 MiB	2.913 GiB	1.402 GiB
35	presto/tpcds: q36	2.739 GiB	412.685 MiB	1.721 GiB	433.468 MiB
36	presto/tpcds: q37	540.941 MiB	168.966 MiB	593.126 MiB	86.608 MiB
37	presto/tpcds: q38	20.130 GiB	0.950 GiB	20.189 GiB	2.000 GiB
38	presto/tpcds: q39	0.957 GiB	23.974 MiB	0.960 GiB	27.396 MiB
39	presto/tpcds: q40	6.425 GiB	293.215 MiB	7.424 GiB	1.465 GiB
40	presto/tpcds: q41	311.719 KiB	230.081 KiB	285.261 KiB	216.664 KiB
41	presto/tpcds: q42	330.396 MiB	111.918 MiB	177.074 MiB	175.902 MiB
42	presto/tpcds: q43	1.634 GiB	185.161 MiB	1.152 GiB	93.790 MiB
43	presto/tpcds: q44	847.508 MiB	107.884 MiB	931.358 MiB	147.251 MiB
44	presto/tpcds: q45	489.646 MiB	56.305 MiB	417.073 MiB	32.919 MiB
45	presto/tpcds: q46	2.823 GiB	265.984 MiB	1.328 GiB	171.843 MiB
46	presto/tpcds: q47	11.867 GiB	172.901 MiB	11.572 GiB	232.881 MiB
47	presto/tpcds: q48	5.046 GiB	387.450 MiB	5.268 GiB	524.686 MiB
48	presto/tpcds: q49	18.976 GiB	3.248 GiB	20.212 GiB	327.137 MiB
49	presto/tpcds: q50	3.978 GiB	114.198 MiB	4.010 GiB	192.913 MiB
50	presto/tpcds: q51	15.884 GiB	0.944 GiB	15.768 GiB	1.508 GiB
51	presto/tpcds: q52	449.945 MiB	95.070 MiB	287.350 MiB	214.507 MiB
52	presto/tpcds: q53	1.479 GiB	537.080 MiB	1.142 GiB	297.406 MiB
53	presto/tpcds: q54	2.112 GiB	145.013 MiB	1.943 GiB	130.666 MiB
54	presto/tpcds: q55	350.155 MiB	60.159 MiB	328.591 MiB	59.916 MiB
55	presto/tpcds: q56	447.004 MiB	38.364 MiB	405.868 MiB	49.955 MiB
56	presto/tpcds: q57	9.223 GiB	414.985 MiB	8.899 GiB	160.782 MiB
57	presto/tpcds: q58	572.576 MiB	48.217 MiB	640.794 MiB	58.220 MiB
58	presto/tpcds: q59	3.387 GiB	162.718 MiB	3.382 GiB	184.056 MiB
59	presto/tpcds: q60	1.886 GiB	271.252 MiB	1.663 GiB	152.225 MiB
60	presto/tpcds: q61	1.936 GiB	159.308 MiB	1.418 GiB	180.076 MiB
61	presto/tpcds: q62	635.875 MiB	16.065 MiB	626.640 MiB	37.067 MiB
62	presto/tpcds: q63	1.635 GiB	643.077 MiB	1.146 GiB	104.536 MiB
63	presto/tpcds: q64	49.877 GiB	2.030 GiB	50.160 GiB	1.533 GiB
64	presto/tpcds: q65	20.621 GiB	857.970 MiB	19.481 GiB	869.256 MiB
65	presto/tpcds: q66	1.413 GiB	419.533 MiB	737.105 MiB	206.201 MiB
66	presto/tpcds: q67	66.392 GiB	73.339 MiB	66.356 GiB	67.977 MiB
67	presto/tpcds: q68	1.200 GiB	72.311 MiB	662.103 MiB	113.933 MiB
68	presto/tpcds: q69	784.377 MiB	114.245 MiB	682.561 MiB	365.134 MiB
69	presto/tpcds: q70	3.938 GiB	296.163 MiB	3.691 GiB	96.082 MiB
70	presto/tpcds: q71	419.772 MiB	213.537 MiB	184.882 MiB	94.960 MiB
71	presto/tpcds: q72	38.434 GiB	154.468 MiB	37.900 GiB	135.317 MiB
72	presto/tpcds: q73	181.695 MiB	63.649 MiB	83.155 MiB	29.179 MiB
73	presto/tpcds: q74	30.567 GiB	1.194 GiB	29.208 GiB	1.865 GiB
74	presto/tpcds: q75	21.111 GiB	0.933 GiB	21.391 GiB	457.037 MiB

	query	Baseline partitioned parquet mean	Baseline partitioned parquet std.dev	RLE join probe mean	RLE join probe std.dev
75	presto/tpcds: q76	1.025 GiB	75.961 MiB	0.956 GiB	103.709 MiB
76	presto/tpcds: q77	470.728 MiB	58.219 MiB	352.028 MiB	145.138 MiB
77	presto/tpcds: q78	87.855 GiB	267.032 MiB	88.052 GiB	247.863 MiB
78	presto/tpcds: q79	3.123 GiB	64.399 MiB	2.734 GiB	83.907 MiB
79	presto/tpcds: q80	28.660 GiB	733.390 MiB	27.492 GiB	2.133 GiB
80	presto/tpcds: q81	4.489 GiB	0.966 GiB	5.402 GiB	373.771 MiB
81	presto/tpcds: q82	1.321 GiB	147.971 MiB	1.490 GiB	324.815 MiB
82	presto/tpcds: q83	148.535 MiB	31.859 MiB	109.648 MiB	18.482 MiB
83	presto/tpcds: q84	111.936 MiB	14.900 MiB	95.612 MiB	8.050 MiB
84	presto/tpcds: q85	14.168 GiB	318.304 MiB	13.817 GiB	215.631 MiB
85	presto/tpcds: q86	1.139 GiB	52.243 MiB	1.193 GiB	81.880 MiB
86	presto/tpcds: q87	20.139 GiB	1.593 GiB	19.454 GiB	1.655 GiB
87	presto/tpcds: q88	0.924 GiB	135.525 MiB	0.921 GiB	304.292 MiB
88	presto/tpcds: q89	2.866 GiB	291.103 MiB	2.278 GiB	228.905 MiB
89	presto/tpcds: q90	178.439 MiB	38.360 MiB	287.781 MiB	192.419 MiB
90	presto/tpcds: q91	144.124 MiB	23.011 MiB	150.747 MiB	35.760 MiB
91	presto/tpcds: q92	79.698 MiB	71.685 MiB	204.545 MiB	50.125 MiB
92	presto/tpcds: q93	22.869 GiB	168.931 MiB	21.897 GiB	352.491 MiB
93	presto/tpcds: q94	10.467 GiB	496.769 MiB	10.642 GiB	76.216 MiB
94	presto/tpcds: q95	75.726 GiB	431.558 MiB	75.702 GiB	620.437 MiB
95	presto/tpcds: q96	564.819 MiB	46.942 MiB	518.397 MiB	63.555 MiB
96	presto/tpcds: q97	31.252 GiB	269.115 MiB	31.276 GiB	236.655 MiB
97	presto/tpcds: q98	455.078 MiB	226.497 MiB	596.586 MiB	83.212 MiB
98	presto/tpcds: q99	1.204 GiB	83.112 MiB	1.164 GiB	77.629 MiB

TPC-H Comparison (physicalInputDataSize)

TPC-DS Comparison (physicalInputDataSize)