

Overall Times

	label	TPCH wall time	TPC-DS wall time	TPCH CPU time	TPC-DS CPU time	TPCH Network GB	TPC-DS Network GB	TPCH peak mem	TPC-DS peak mem	TPCH wall time % change	TPC-DS wall time % change	TPCH CPU time % change	TPC-DS CPU time % change	TPCH Network GB % change	TPC-DS Network GB % change	TPCH peak mem % change	TPC-DS peak mem % change
0	baseline unpart	747	1,761	95,183	229,728	2,351	3,898	2,072,617,819	1,124,989,571	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	adaptive PA unpart	725	1,718	91,735	223,699	2,351	3,899	2,062,639,552	1,107,165,842	-2.93	-2.43	-3.62	-2.62	0.02	0.03	-0.48	-1.58

FAILED QUERIES

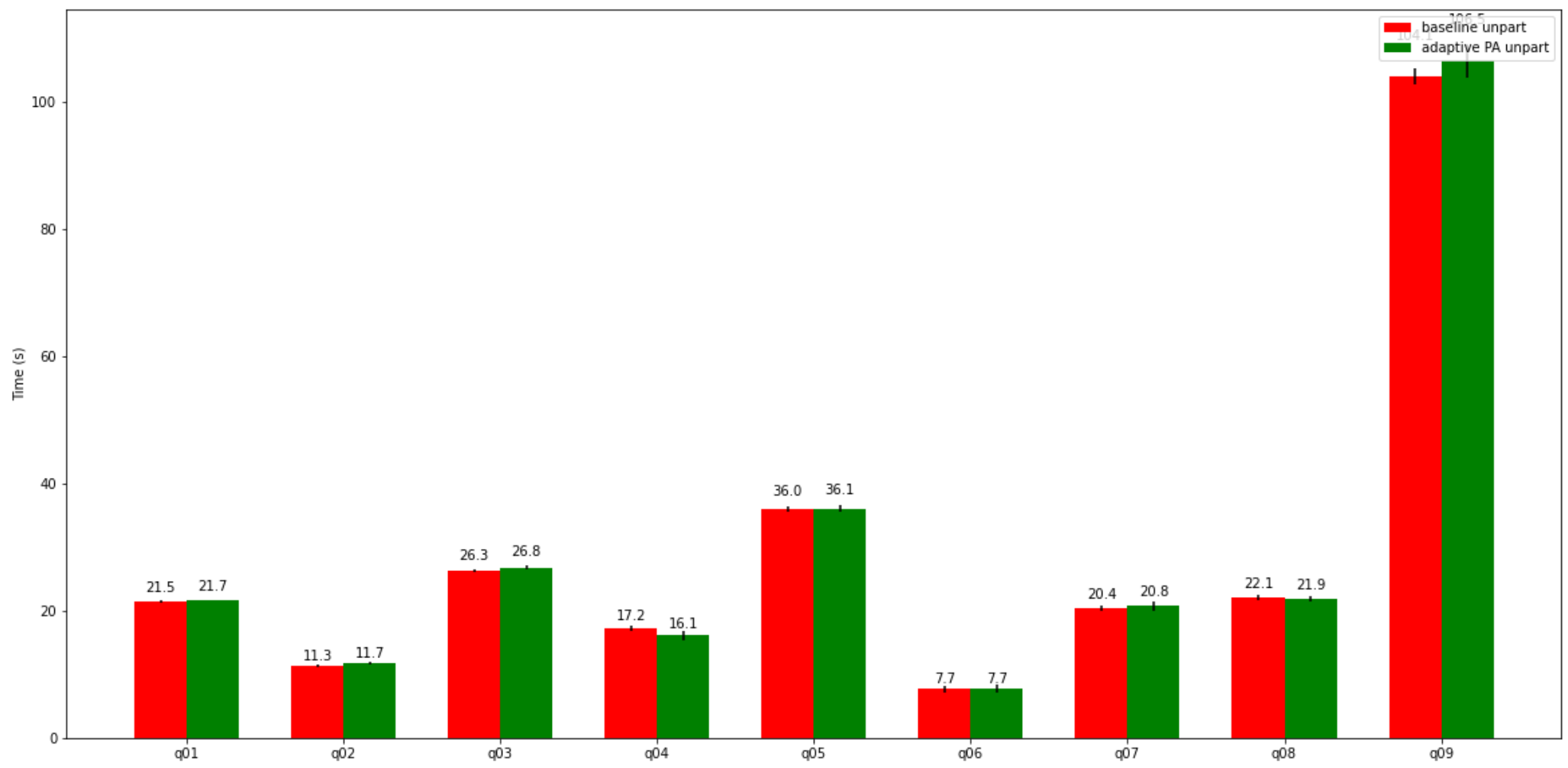
baseline unpart

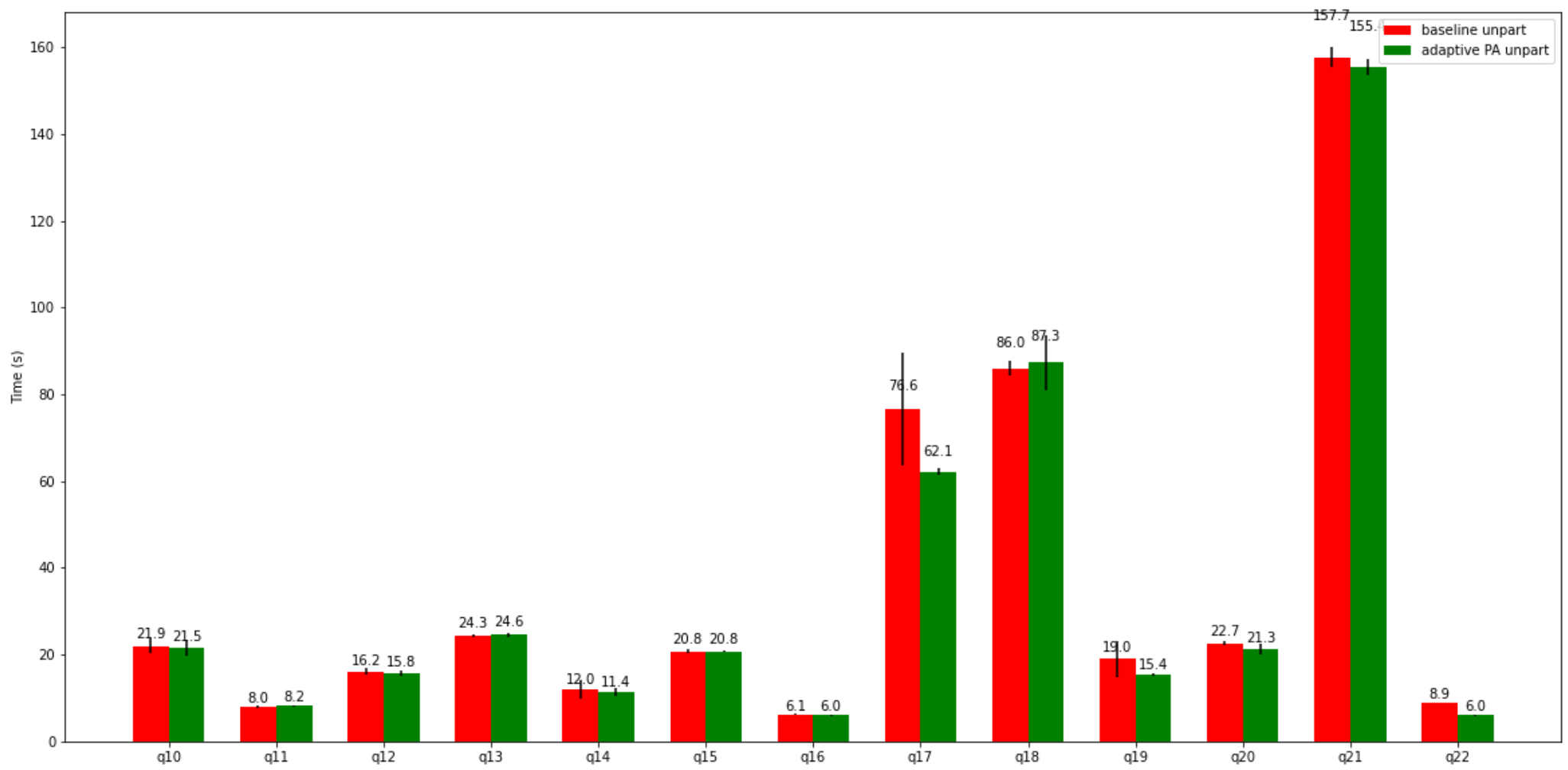
benchmark	query	mean_duration	std_dev
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adaptive PA unpart

benchmark	query	mean_duration	std_dev
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TPC-H Comparison (DURATION)





	query	baseline unpart mean	baseline unpart std.dev	adaptive PA unpart mean	adaptive PA unpart std.dev	% change	baseline unpart std.dev %	adaptive PA unpart std.dev %	p-value
21	presto/tpch: q22	8.93	0.13	6.04	0.10	-32.36	1.44	1.64	0.00000
18	presto/tpch: q19	19.01	4.22	15.37	0.20	-19.18	22.22	1.31	0.06088
16	presto/tpch: q17	76.60	13.11	62.11	0.77	-18.92	17.12	1.24	0.02221
3	presto/tpch: q04	17.25	0.33	16.11	0.80	-6.60	1.92	5.00	0.00944
19	presto/tpch: q20	22.66	0.58	21.29	1.18	-6.03	2.56	5.56	0.02952
13	presto/tpch: q14	11.97	2.06	11.36	0.94	-5.11	17.17	8.23	0.52190

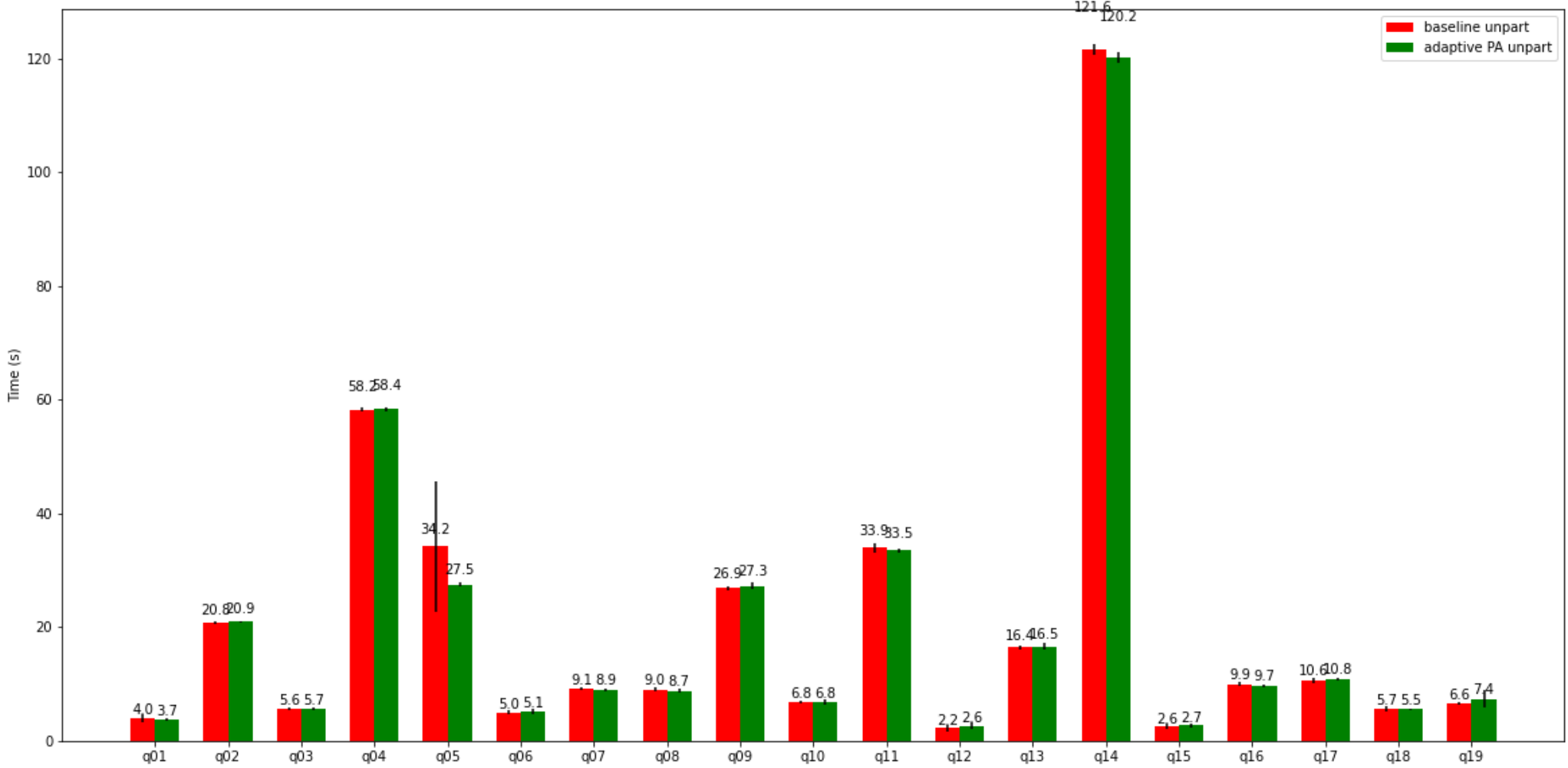
	query	baseline unpart mean	baseline unpart std.dev	adaptive PA unpart mean	adaptive PA unpart std.dev	% change	baseline unpart std.dev %	adaptive PA unpart std.dev %	p-value
9	presto/tpch: q10	21.95	1.64	21.46	1.83	-2.20	7.49	8.52	0.64080
15	presto/tpch: q16	6.13	0.14	6.00	0.12	-2.16	2.32	2.02	0.11243
11	presto/tpch: q12	16.16	0.86	15.82	0.61	-2.08	5.31	3.87	0.45317
20	presto/tpch: q21	157.71	2.34	155.40	1.77	-1.46	1.48	1.14	0.08252
7	presto/tpch: q08	22.10	0.43	21.90	0.35	-0.92	1.94	1.59	0.38953
14	presto/tpch: q15	20.79	0.58	20.79	0.21	0.04	2.78	1.02	0.97676
5	presto/tpch: q06	7.71	0.55	7.73	0.64	0.23	7.14	8.34	0.96027
4	presto/tpch: q05	35.98	0.41	36.09	0.47	0.30	1.13	1.30	0.68148
0	presto/tpch: q01	21.50	0.19	21.66	0.06	0.72	0.88	0.28	0.08625
12	presto/tpch: q13	24.34	0.43	24.55	0.40	0.88	1.76	1.63	0.39048
17	presto/tpch: q18	85.97	1.71	87.32	6.34	1.56	1.99	7.26	0.62765
2	presto/tpch: q03	26.33	0.26	26.77	0.30	1.66	0.98	1.12	0.02179
6	presto/tpch: q07	20.36	0.43	20.75	0.76	1.90	2.09	3.65	0.30107
8	presto/tpch: q09	104.13	1.32	106.54	2.59	2.32	1.27	2.43	0.06921
10	presto/tpch: q11	7.96	0.24	8.18	0.08	2.74	2.99	1.00	0.05968
1	presto/tpch: q02	11.29	0.25	11.70	0.22	3.61	2.19	1.86	0.01265

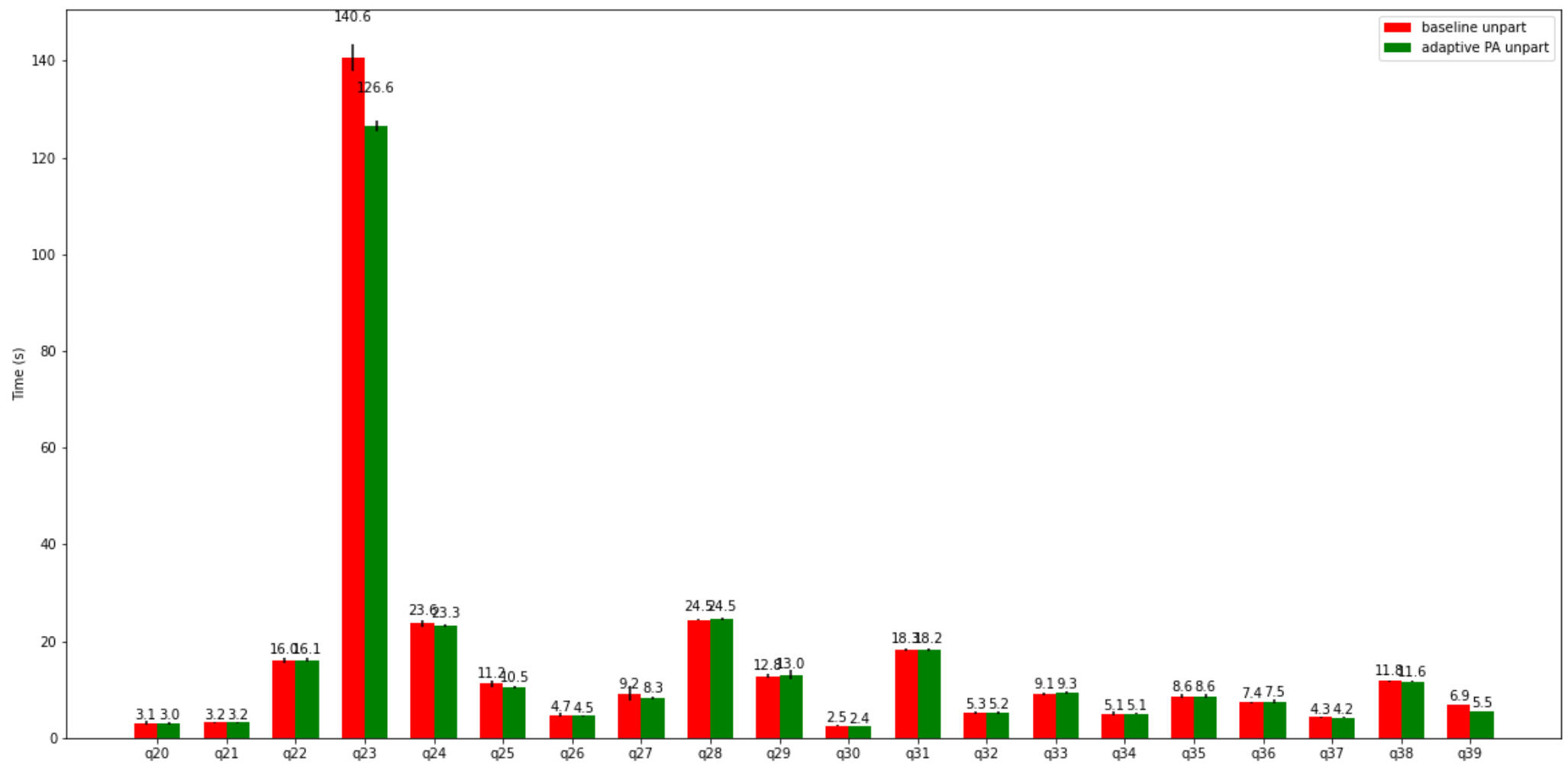
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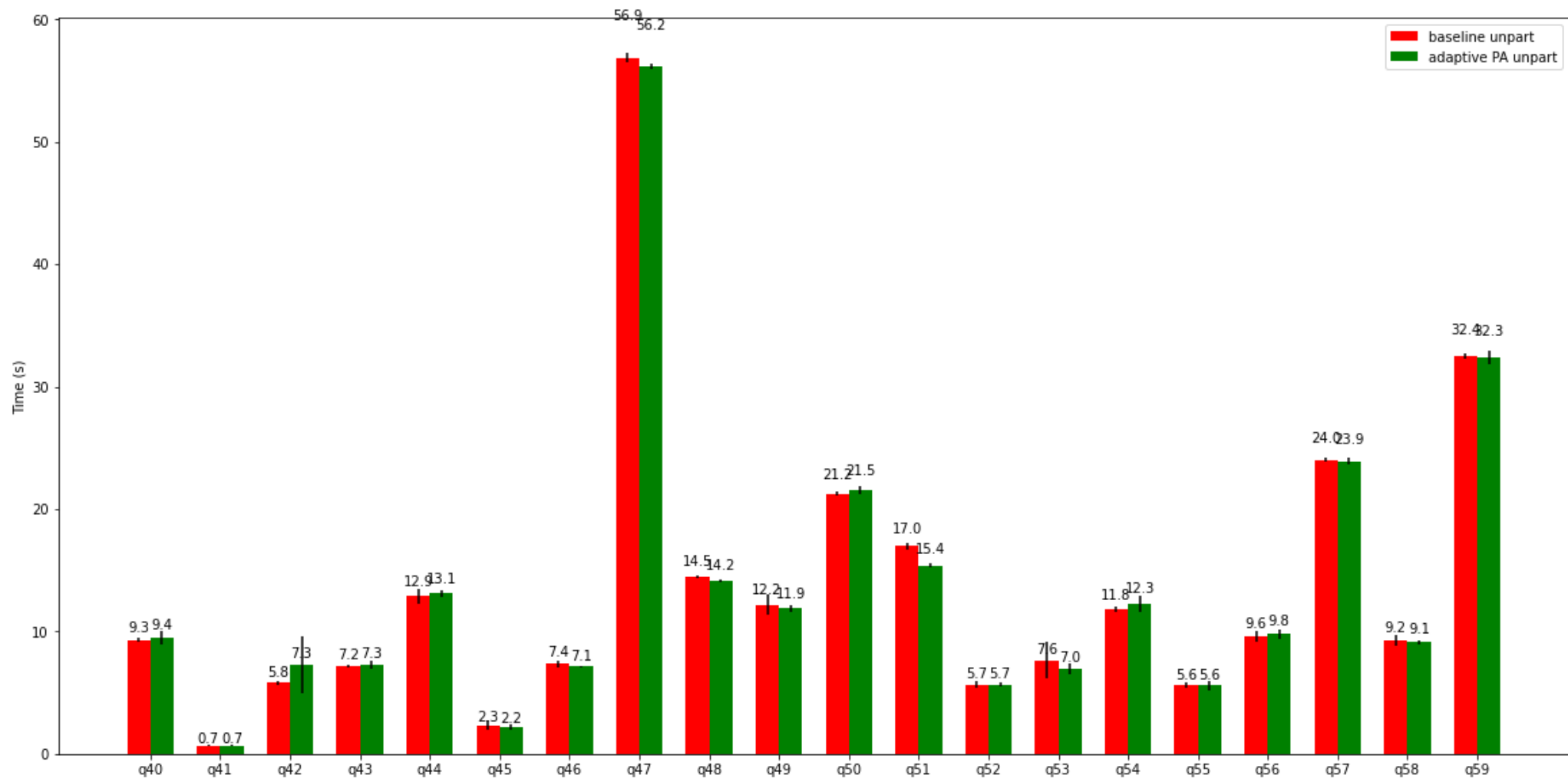
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mean     -4
std       9
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Name: % change, dtype: float64

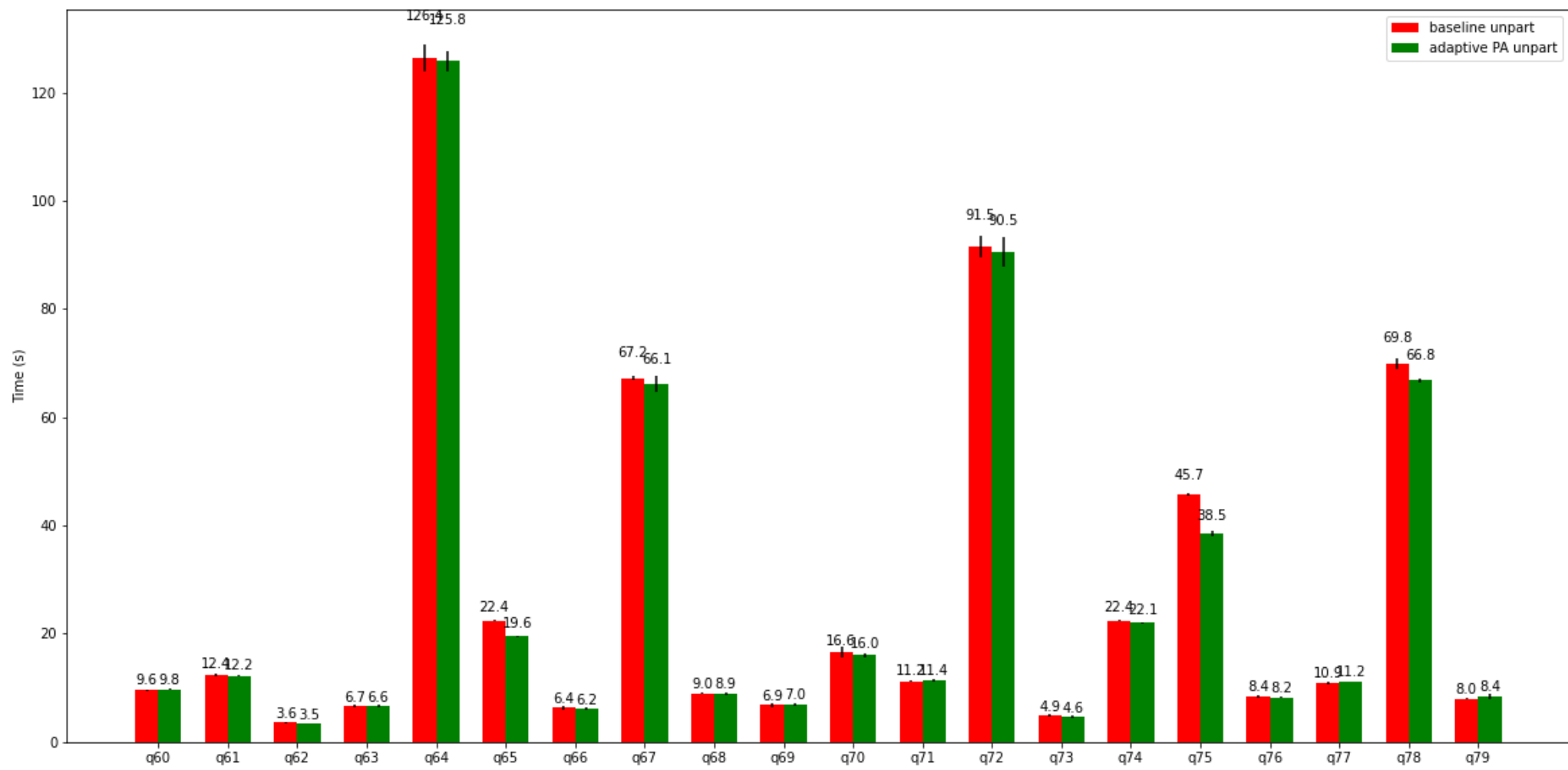
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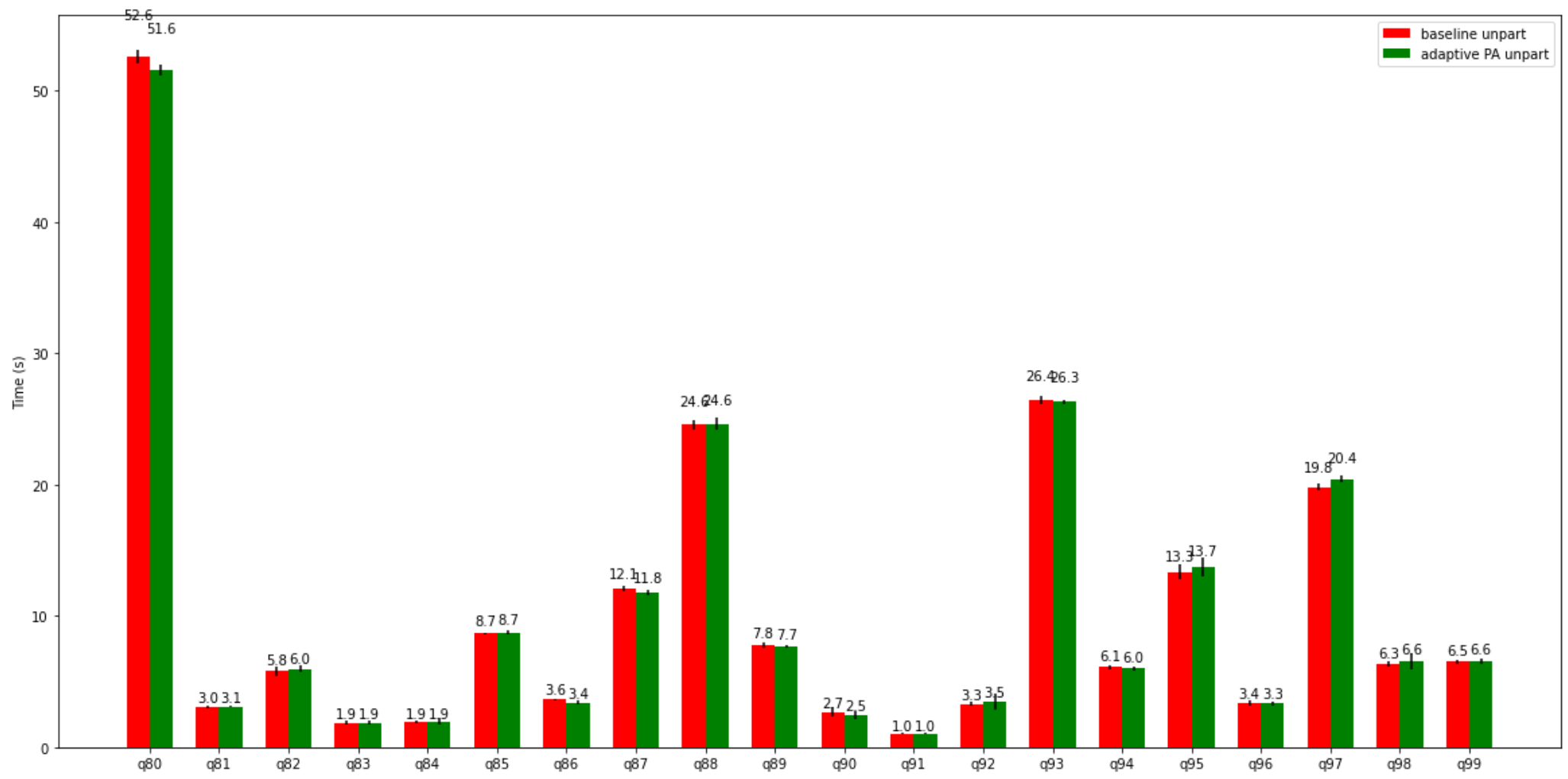
TPC-DS Comparison (DURATION)

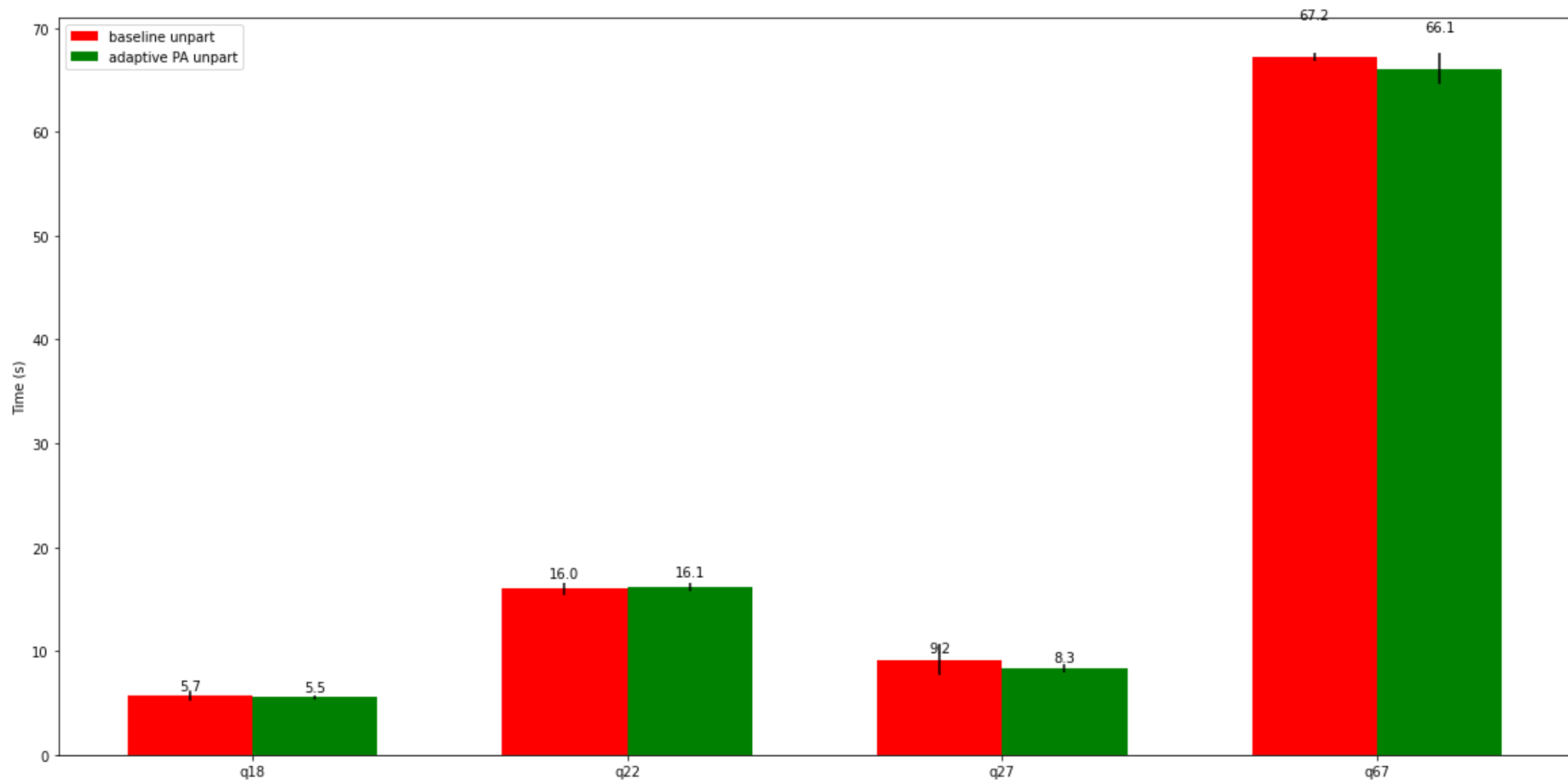












	query	baseline unpart mean	baseline unpart std.dev	adaptive PA unpart mean	adaptive PA unpart std.dev	% change	baseline unpart std.dev %	adaptive PA unpart std.dev %	p-value
38	presto/tpcds: q39	6.85	0.09	5.47	0.07	-20.17	1.26	1.22	0.00000
4	presto/tpcds: q05	34.21	11.46	27.49	0.42	-19.63	33.50	1.54	0.18193
74	presto/tpcds: q75	45.71	0.22	38.48	0.50	-15.83	0.48	1.29	0.00000
64	presto/tpcds: q65	22.42	0.15	19.57	0.17	-12.75	0.69	0.85	0.00000
22	presto/tpcds: q23	140.64	2.77	126.57	1.07	-10.01	1.97	0.85	0.00000

	query	baseline unpart mean	baseline unpart std.dev	adaptive PA unpart mean	adaptive PA unpart std.dev	% change	baseline unpart std.dev %	adaptive PA unpart std.dev %	p-value
50	presto/tpcds:q51	16.99	0.27	15.38	0.16	-9.51	1.56	1.02	0.00000
26	presto/tpcds:q27	9.15	1.54	8.33	0.34	-8.98	16.79	4.09	0.22968
52	presto/tpcds:q53	7.64	1.48	6.97	0.46	-8.82	19.36	6.60	0.31151
0	presto/tpcds:q01	4.05	0.69	3.70	0.21	-8.55	17.10	5.54	0.26729
89	presto/tpcds:q90	2.69	0.38	2.47	0.31	-8.01	13.97	12.41	0.30251
85	presto/tpcds:q86	3.63	0.08	3.40	0.14	-6.36	2.31	4.21	0.00673
72	presto/tpcds:q73	4.91	0.29	4.63	0.27	-5.77	5.96	5.84	0.11203
24	presto/tpcds:q25	11.16	0.78	10.54	0.22	-5.61	7.02	2.08	0.08881
44	presto/tpcds:q45	2.34	0.37	2.22	0.20	-5.32	15.74	9.19	0.48570
77	presto/tpcds:q78	69.80	0.98	66.77	0.31	-4.33	1.41	0.46	0.00003
61	presto/tpcds:q62	3.64	0.11	3.50	0.04	-4.00	2.97	1.19	0.01156
69	presto/tpcds:q70	16.63	1.02	16.04	0.31	-3.54	6.11	1.91	0.20418
25	presto/tpcds:q26	4.71	0.39	4.55	0.06	-3.36	8.33	1.40	0.35173
45	presto/tpcds:q46	7.36	0.30	7.11	0.07	-3.30	4.11	1.04	0.08515
7	presto/tpcds:q08	9.02	0.31	8.74	0.36	-3.12	3.47	4.11	0.17895
86	presto/tpcds:q87	12.10	0.21	11.76	0.18	-2.87	1.76	1.54	0.01227
75	presto/tpcds:q76	8.41	0.34	8.17	0.12	-2.86	4.05	1.52	0.13581
15	presto/tpcds:q16	9.92	0.38	9.66	0.18	-2.56	3.82	1.82	0.16743
48	presto/tpcds:q49	12.18	0.81	11.88	0.24	-2.47	6.65	2.03	0.40443

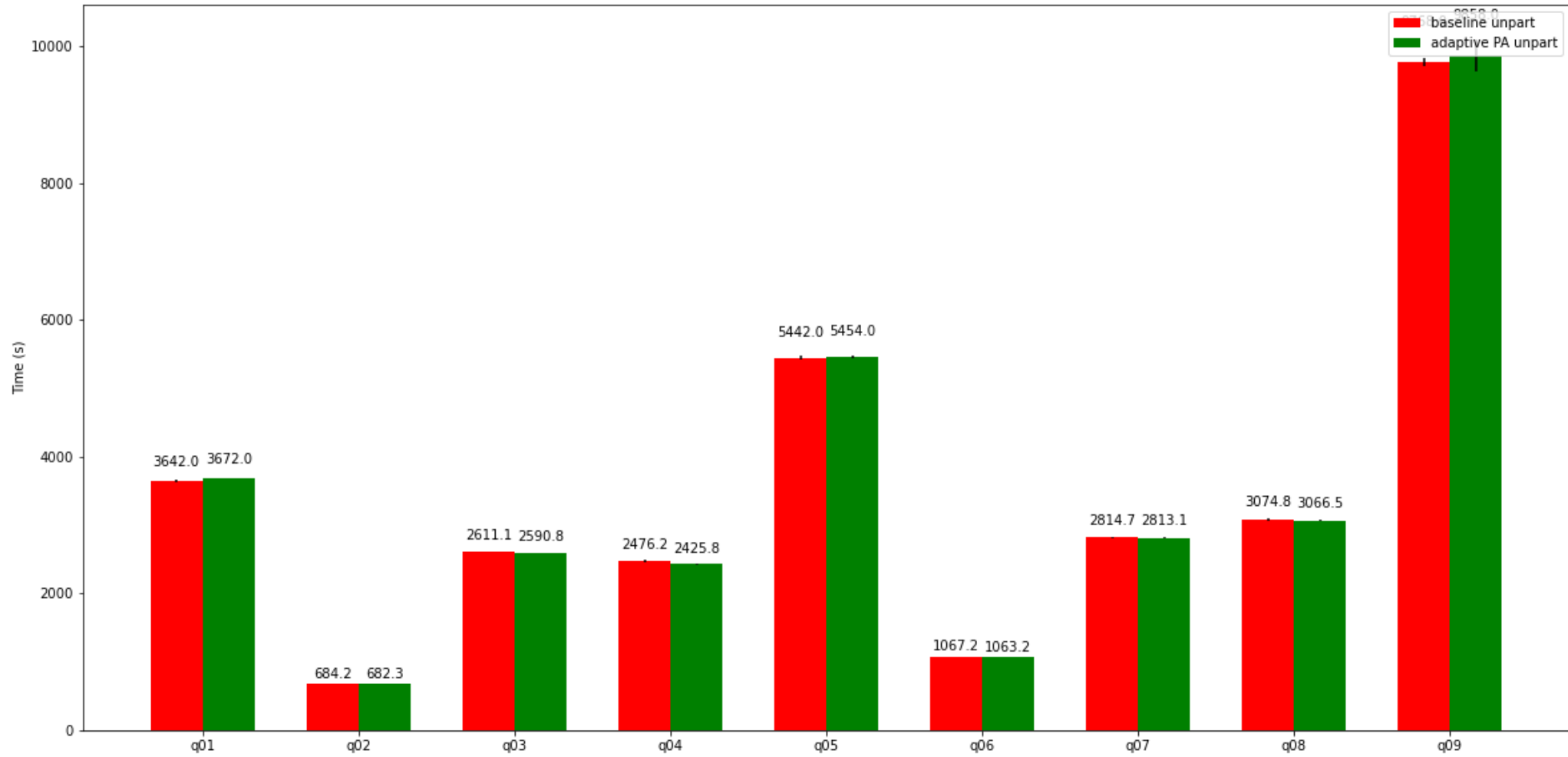
	query	baseline unpart mean	baseline unpart std.dev	adaptive PA unpart mean	adaptive PA unpart std.dev	% change	baseline unpart std.dev %	adaptive PA unpart std.dev %	p-value
31	presto/tpcds:q32	5.28	0.21	5.15	0.24	-2.45	4.07	4.74	0.35376
47	presto/tpcds:q48	14.46	0.16	14.15	0.11	-2.13	1.09	0.81	0.00303
17	presto/tpcds:q18	5.66	0.46	5.54	0.20	-2.10	8.14	3.63	0.57549
65	presto/tpcds:q66	6.36	0.42	6.23	0.20	-2.10	6.61	3.19	0.49827
37	presto/tpcds:q38	11.84	0.13	11.59	0.13	-2.09	1.06	1.09	0.00678
79	presto/tpcds:q80	52.59	0.52	51.59	0.43	-1.90	0.98	0.83	0.00445
90	presto/tpcds:q91	1.04	0.07	1.02	0.07	-1.79	6.36	6.76	0.64379
93	presto/tpcds:q94	6.09	0.15	5.99	0.19	-1.72	2.42	3.18	0.30988
66	presto/tpcds:q67	67.21	0.38	66.07	1.49	-1.70	0.57	2.26	0.10000
73	presto/tpcds:q74	22.45	0.07	22.07	0.13	-1.67	0.31	0.57	0.00008
23	presto/tpcds:q24	23.64	0.65	23.28	0.31	-1.52	2.73	1.33	0.24638
95	presto/tpcds:q96	3.39	0.21	3.35	0.16	-1.40	6.08	4.66	0.66244
6	presto/tpcds:q07	9.07	0.23	8.94	0.21	-1.38	2.53	2.36	0.34968
88	presto/tpcds:q89	7.81	0.22	7.70	0.09	-1.37	2.81	1.22	0.29663
10	presto/tpcds:q11	33.92	0.88	33.46	0.33	-1.34	2.60	0.99	0.26247
60	presto/tpcds:q61	12.40	0.35	12.25	0.14	-1.27	2.82	1.13	0.32946
36	presto/tpcds:q37	4.26	0.07	4.21	0.04	-1.27	1.71	1.04	0.15130
46	presto/tpcds:q47	56.88	0.39	56.19	0.22	-1.20	0.68	0.39	0.00381
13	presto/tpcds:q14	121.60	0.88	120.16	0.87	-1.19	0.72	0.72	0.01692

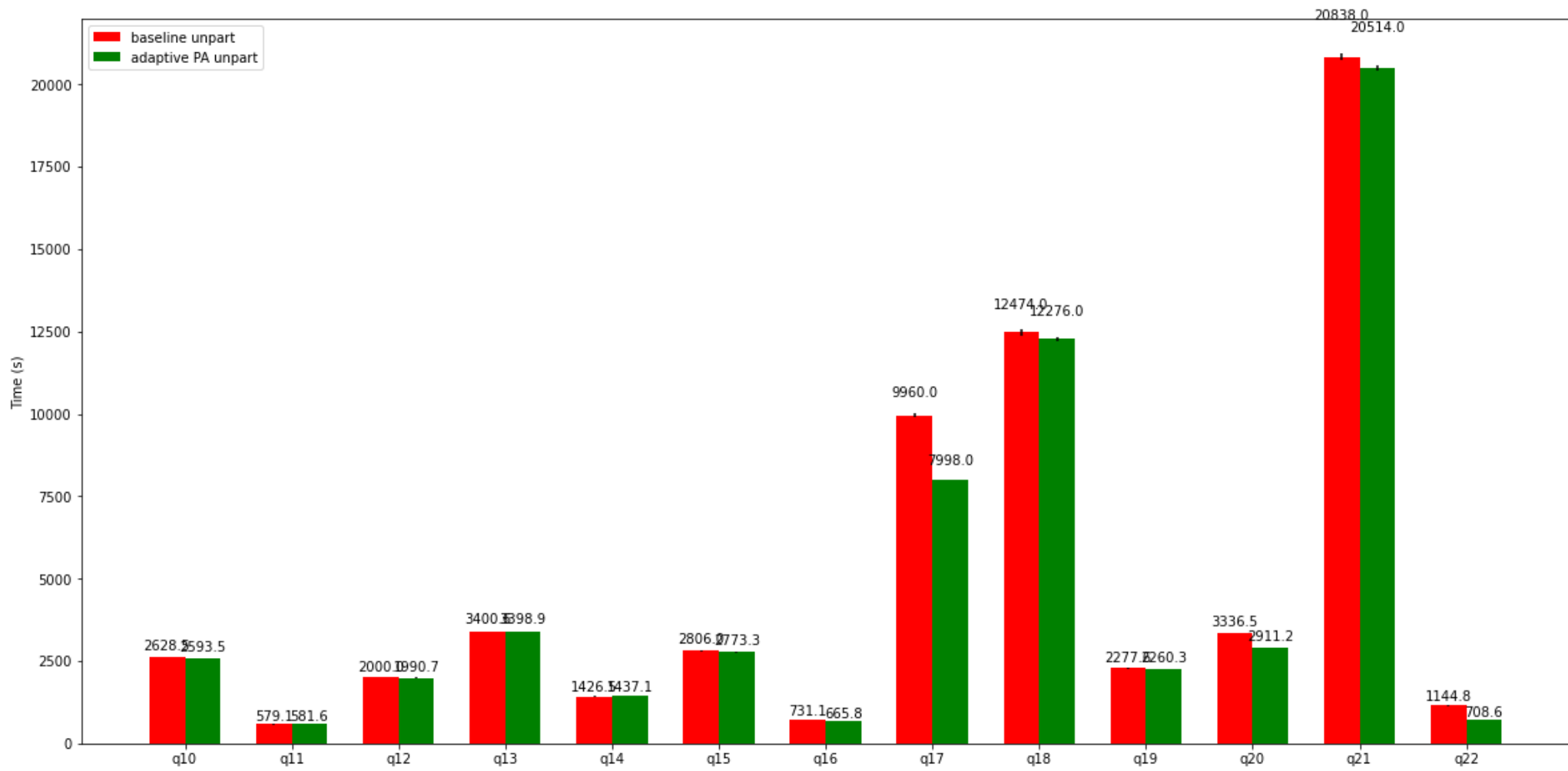
	query	baseline unpart mean	baseline unpart std.dev	adaptive PA unpart mean	adaptive PA unpart std.dev	% change	baseline unpart std.dev %	adaptive PA unpart std.dev %	p-value
62	presto/tpcds:q63	6.67	0.28	6.60	0.27	-1.13	4.16	4.02	0.64149
57	presto/tpcds:q58	9.23	0.45	9.13	0.19	-1.12	4.86	2.05	0.61310
67	presto/tpcds:q68	8.97	0.15	8.87	0.18	-1.09	1.69	2.07	0.33748
71	presto/tpcds:q72	91.47	2.03	90.52	2.66	-1.04	2.22	2.94	0.50323
29	presto/tpcds:q30	2.46	0.12	2.45	0.09	-0.61	4.98	3.68	0.81402
63	presto/tpcds:q64	126.40	2.43	125.76	1.78	-0.50	1.92	1.42	0.61551
92	presto/tpcds:q93	26.42	0.28	26.30	0.13	-0.45	1.08	0.51	0.37635
56	presto/tpcds:q57	24.01	0.15	23.91	0.30	-0.42	0.62	1.24	0.47229
82	presto/tpcds:q83	1.87	0.16	1.86	0.19	-0.42	8.61	9.98	0.93933
54	presto/tpcds:q55	5.60	0.24	5.59	0.41	-0.33	4.28	7.27	0.92464
19	presto/tpcds:q20	3.05	0.36	3.04	0.26	-0.31	11.81	8.39	0.95901
58	presto/tpcds:q59	32.45	0.22	32.35	0.56	-0.31	0.68	1.73	0.69398
30	presto/tpcds:q31	18.26	0.29	18.23	0.19	-0.20	1.57	1.05	0.79644
34	presto/tpcds:q35	8.59	0.41	8.57	0.42	-0.17	4.82	4.92	0.95168
51	presto/tpcds:q52	5.66	0.31	5.66	0.20	0.05	5.45	3.61	0.98453
9	presto/tpcds:q10	6.83	0.22	6.84	0.50	0.07	3.22	7.25	0.98360
33	presto/tpcds:q34	5.05	0.39	5.06	0.22	0.11	7.67	4.29	0.97640
3	presto/tpcds:q04	58.20	0.32	58.35	0.33	0.27	0.55	0.57	0.42838
87	presto/tpcds:q88	24.55	0.38	24.63	0.47	0.31	1.54	1.90	0.76260

	query	baseline unpart mean	baseline unpart std.dev	adaptive PA unpart mean	adaptive PA unpart std.dev	% change	baseline unpart std.dev %	adaptive PA unpart std.dev %	p-value
27	presto/tpcds:q28	24.45	0.20	24.55	0.24	0.41	0.83	0.98	0.45638
12	presto/tpcds:q13	16.44	0.31	16.55	0.59	0.64	1.88	3.57	0.70804
20	presto/tpcds:q21	3.21	0.11	3.23	0.11	0.66	3.37	3.25	0.73853
1	presto/tpcds:q02	20.76	0.23	20.91	0.19	0.73	1.10	0.90	0.23883
80	presto/tpcds:q81	3.04	0.14	3.07	0.06	0.77	4.47	1.91	0.70775
84	presto/tpcds:q85	8.66	0.09	8.73	0.16	0.86	1.03	1.86	0.34691
21	presto/tpcds:q22	15.99	0.59	16.15	0.36	0.96	3.72	2.24	0.60073
83	presto/tpcds:q84	1.93	0.12	1.95	0.26	1.01	6.01	13.14	0.86847
42	presto/tpcds:q43	7.20	0.11	7.28	0.30	1.08	1.46	4.17	0.56502
70	presto/tpcds:q71	11.25	0.14	11.39	0.13	1.27	1.22	1.15	0.09576
49	presto/tpcds:q50	21.22	0.17	21.50	0.33	1.32	0.81	1.52	0.09305
98	presto/tpcds:q99	6.49	0.15	6.58	0.22	1.36	2.27	3.27	0.42579
8	presto/tpcds:q09	26.88	0.35	27.25	0.56	1.40	1.29	2.07	0.19433
39	presto/tpcds:q40	9.31	0.13	9.45	0.55	1.53	1.43	5.86	0.55346
43	presto/tpcds:q44	12.91	0.61	13.11	0.27	1.57	4.76	2.06	0.47741
16	presto/tpcds:q17	10.63	0.39	10.81	0.24	1.67	3.66	2.21	0.36195
68	presto/tpcds:q69	6.86	0.40	6.98	0.23	1.75	5.87	3.27	0.54018
32	presto/tpcds:q33	9.09	0.31	9.25	0.26	1.79	3.42	2.86	0.35206
55	presto/tpcds:q56	9.61	0.47	9.78	0.42	1.80	4.87	4.26	0.51519

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max 26
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TPC-H Comparison (CPU)

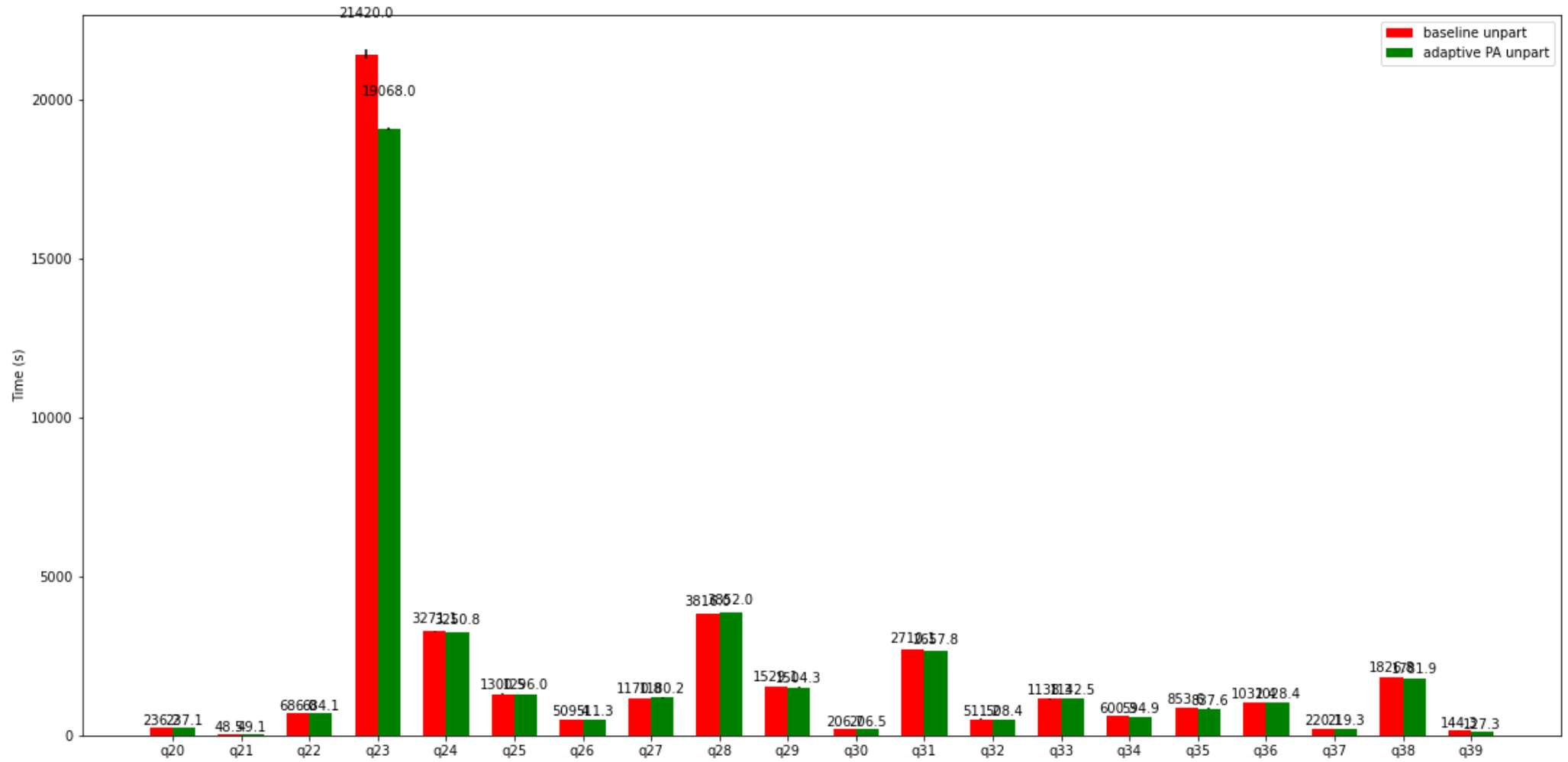


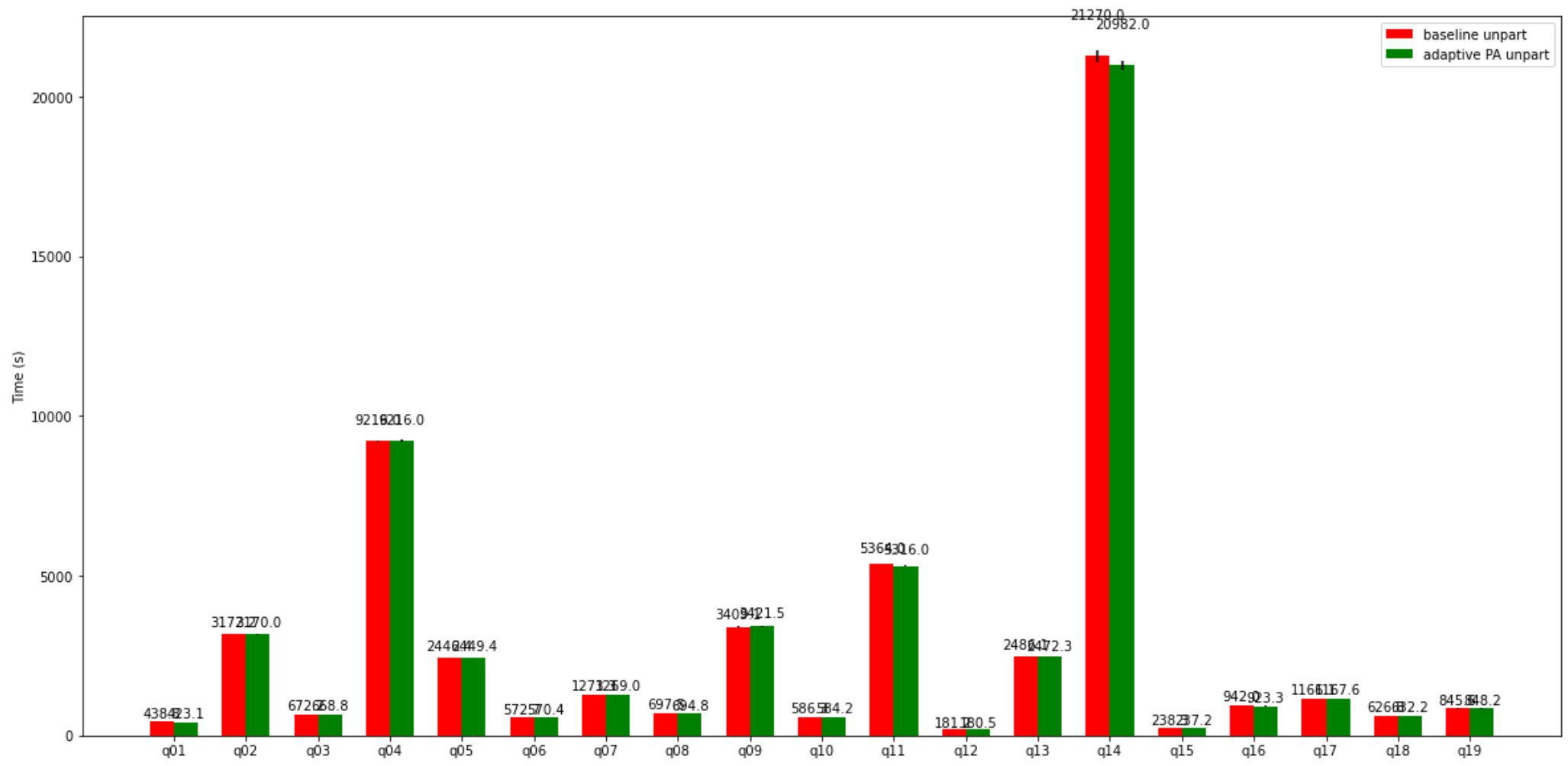


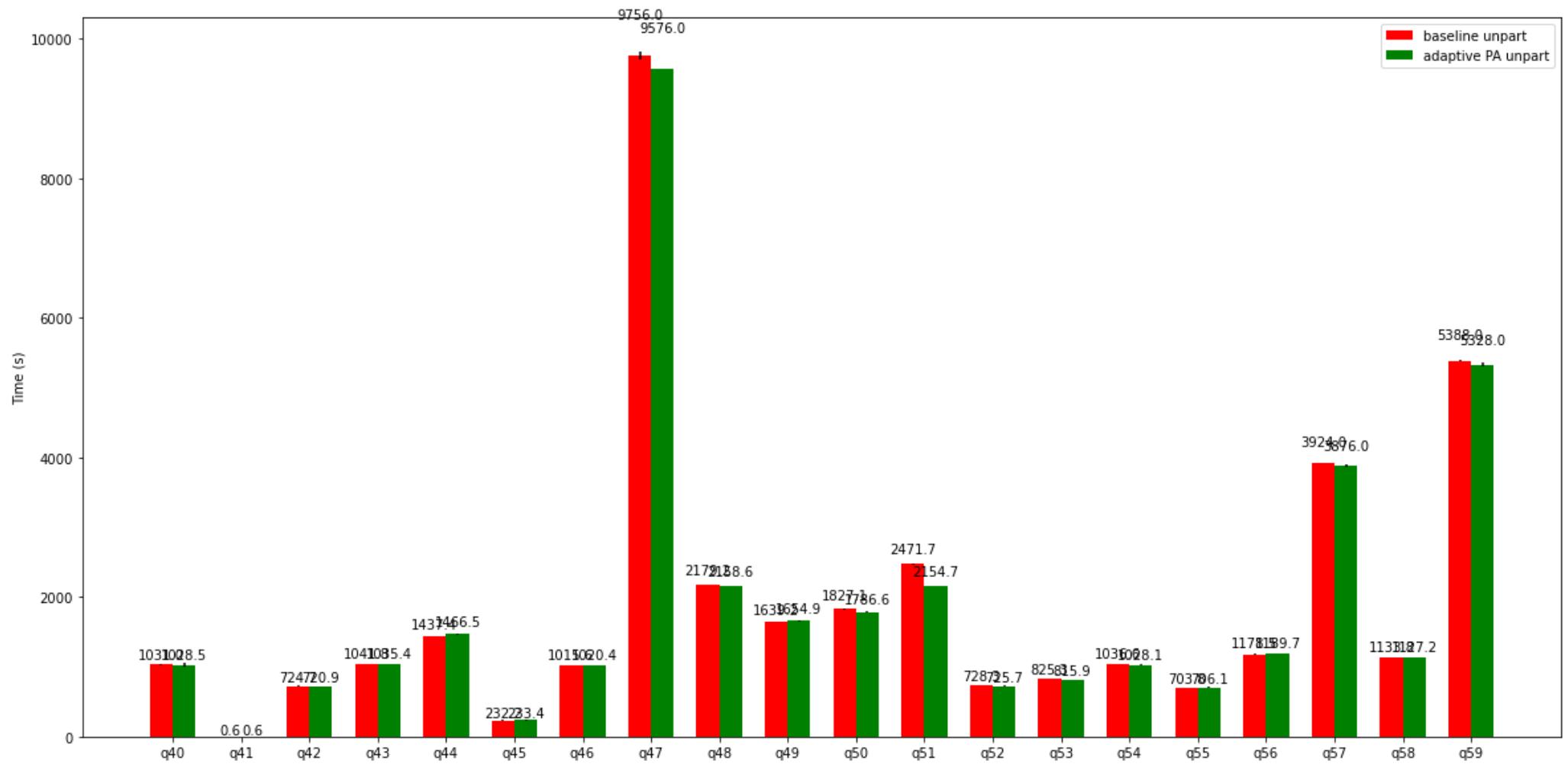
	query	baseline unpart mean	baseline unpart std.dev	adaptive PA unpart mean	adaptive PA unpart std.dev	% change	baseline unpart std.dev %	adaptive PA unpart std.dev %	p-value
21	presto/tpch: q22	1144.80	1.82	708.60	1.31	-38.10	0.16	0.19	0.00000
16	presto/tpch: q17	9960.00	58.79	7998.00	14.70	-19.70	0.59	0.18	0.00000
19	presto/tpch: q20	3336.50	5.47	2911.20	1.86	-12.75	0.16	0.06	0.00000
15	presto/tpch: q16	731.10	1.24	665.80	2.17	-8.93	0.17	0.33	0.00000
3	presto/tpch: q04	2476.20	20.99	2425.80	4.47	-2.04	0.85	0.18	0.00018
17	presto/tpch: q18	12474.00	103.71	12276.00	64.40	-1.59	0.83	0.52	0.00263

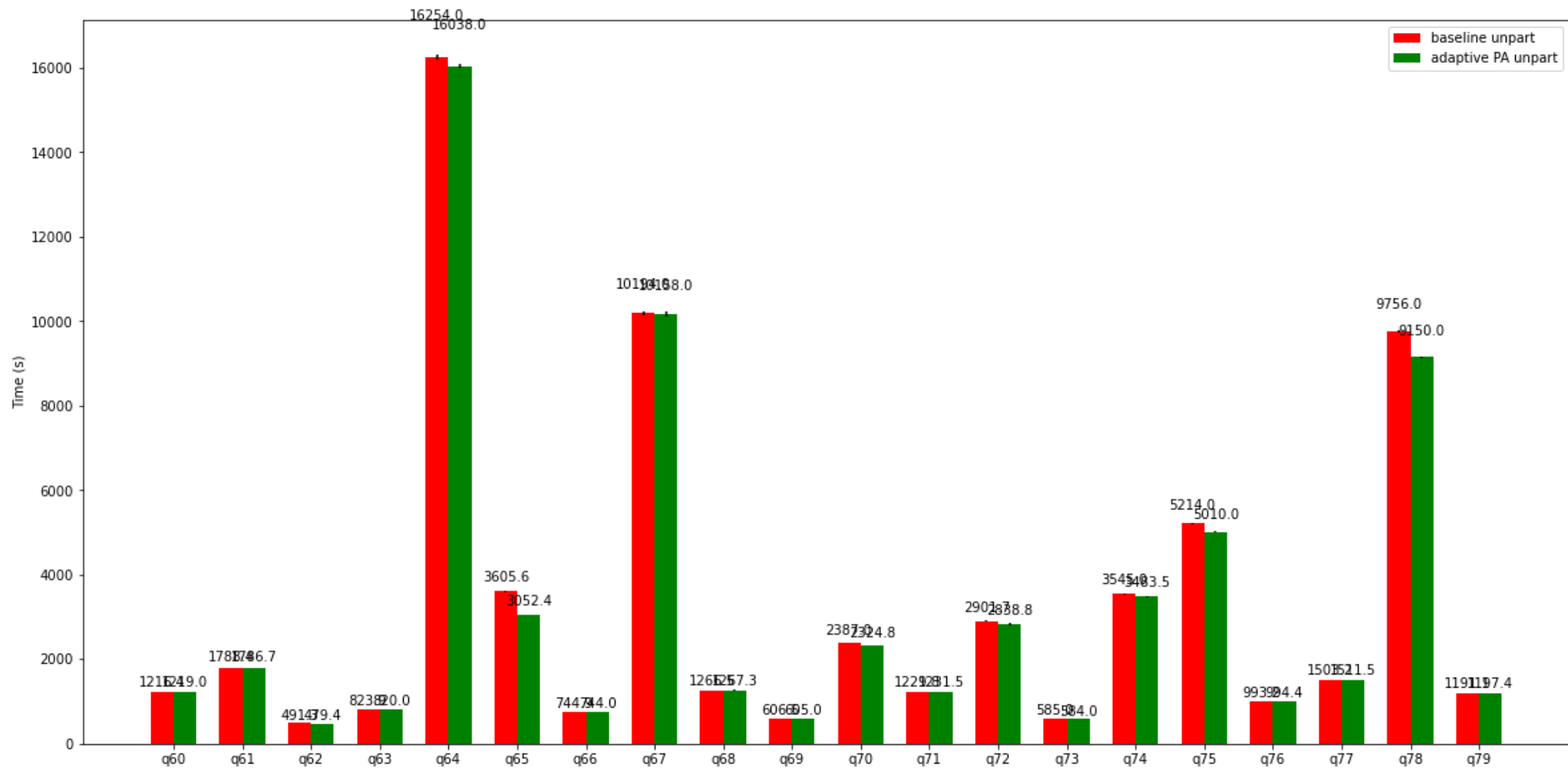
	query	baseline unpart mean	baseline unpart std.dev	adaptive PA unpart mean	adaptive PA unpart std.dev	% change	baseline unpart std.dev %	adaptive PA unpart std.dev %	p-value
20	presto/tpch: q21	20838.00	102.88	20514.00	80.23	-1.55	0.49	0.39	0.00012
9	presto/tpch: q10	2628.50	4.95	2593.50	1.64	-1.33	0.19	0.06	0.00000
14	presto/tpch: q15	2806.00	12.71	2773.30	14.84	-1.17	0.45	0.54	0.00215
2	presto/tpch: q03	2611.10	4.11	2590.80	4.21	-0.78	0.16	0.16	0.00001
18	presto/tpch: q19	2277.60	7.33	2260.30	5.43	-0.76	0.32	0.24	0.00091
11	presto/tpch: q12	2000.00	5.84	1990.70	5.04	-0.46	0.29	0.25	0.01444
5	presto/tpch: q06	1067.20	2.17	1063.20	1.82	-0.37	0.20	0.17	0.00612
1	presto/tpch: q02	684.20	0.73	682.30	3.07	-0.28	0.11	0.45	0.17084
7	presto/tpch: q08	3074.80	13.92	3066.50	3.25	-0.27	0.45	0.11	0.18525
6	presto/tpch: q07	2814.70	6.99	2813.10	6.27	-0.06	0.25	0.22	0.68519
12	presto/tpch: q13	3400.60	7.03	3398.90	5.60	-0.05	0.21	0.16	0.65309
4	presto/tpch: q05	5442.00	27.10	5454.00	19.72	0.22	0.50	0.36	0.40103
10	presto/tpch: q11	579.10	1.71	581.60	1.30	0.43	0.30	0.22	0.01728
13	presto/tpch: q14	1426.50	4.42	1437.10	8.14	0.74	0.31	0.57	0.01872
0	presto/tpch: q01	3642.00	14.70	3672.00	0.00	0.82	0.40	0.00	0.00054
8	presto/tpch: q09	9768.00	58.79	9858.00	237.07	0.92	0.60	2.40	0.38798
count	22								
mean	-4								
std	9								
min	-38								
25%	-2								
50%	-1								
75%	-0								
max	1								
Name: % change, dtype: float64									

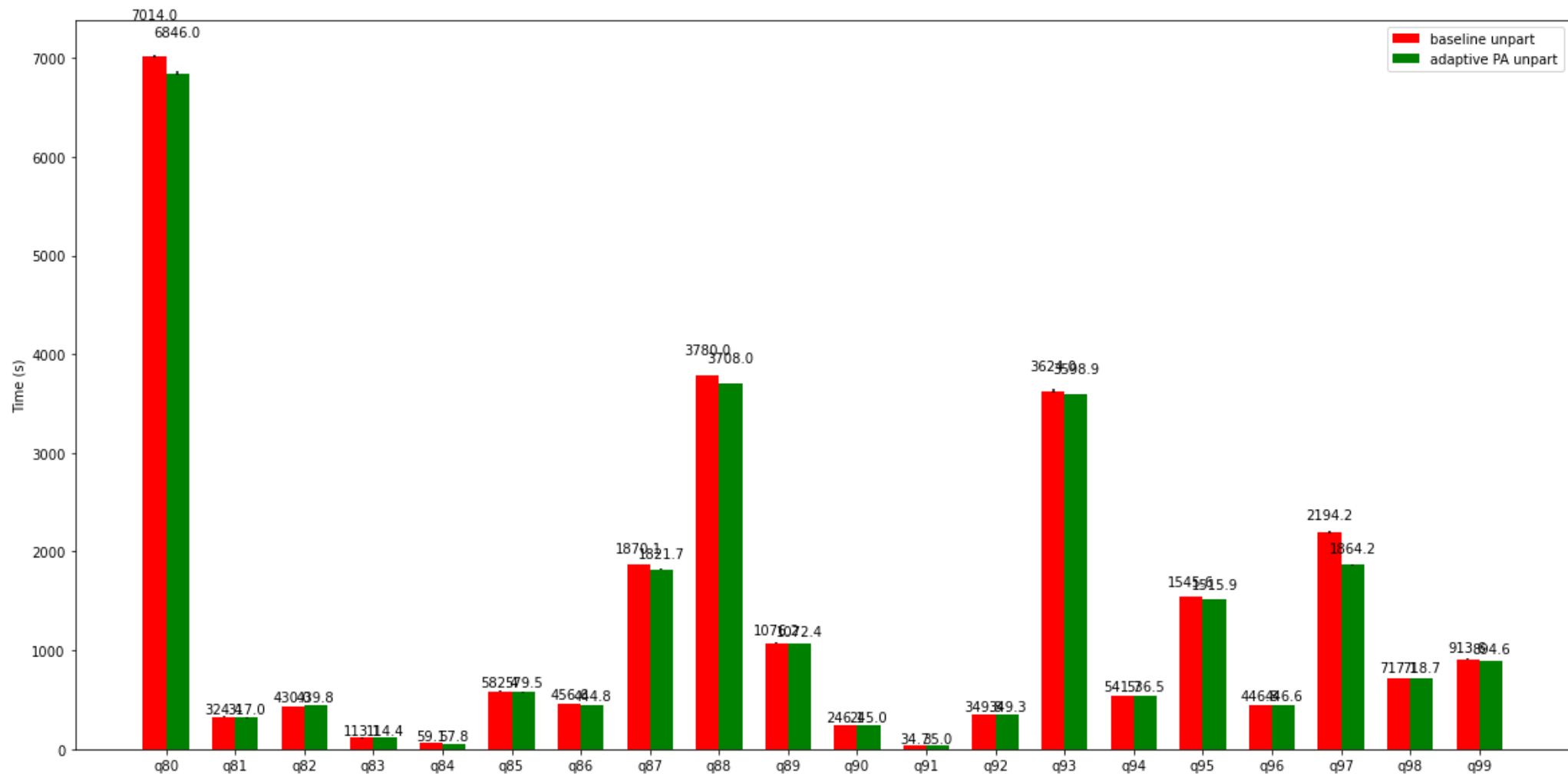
TPC-DS Comparison (CPU)

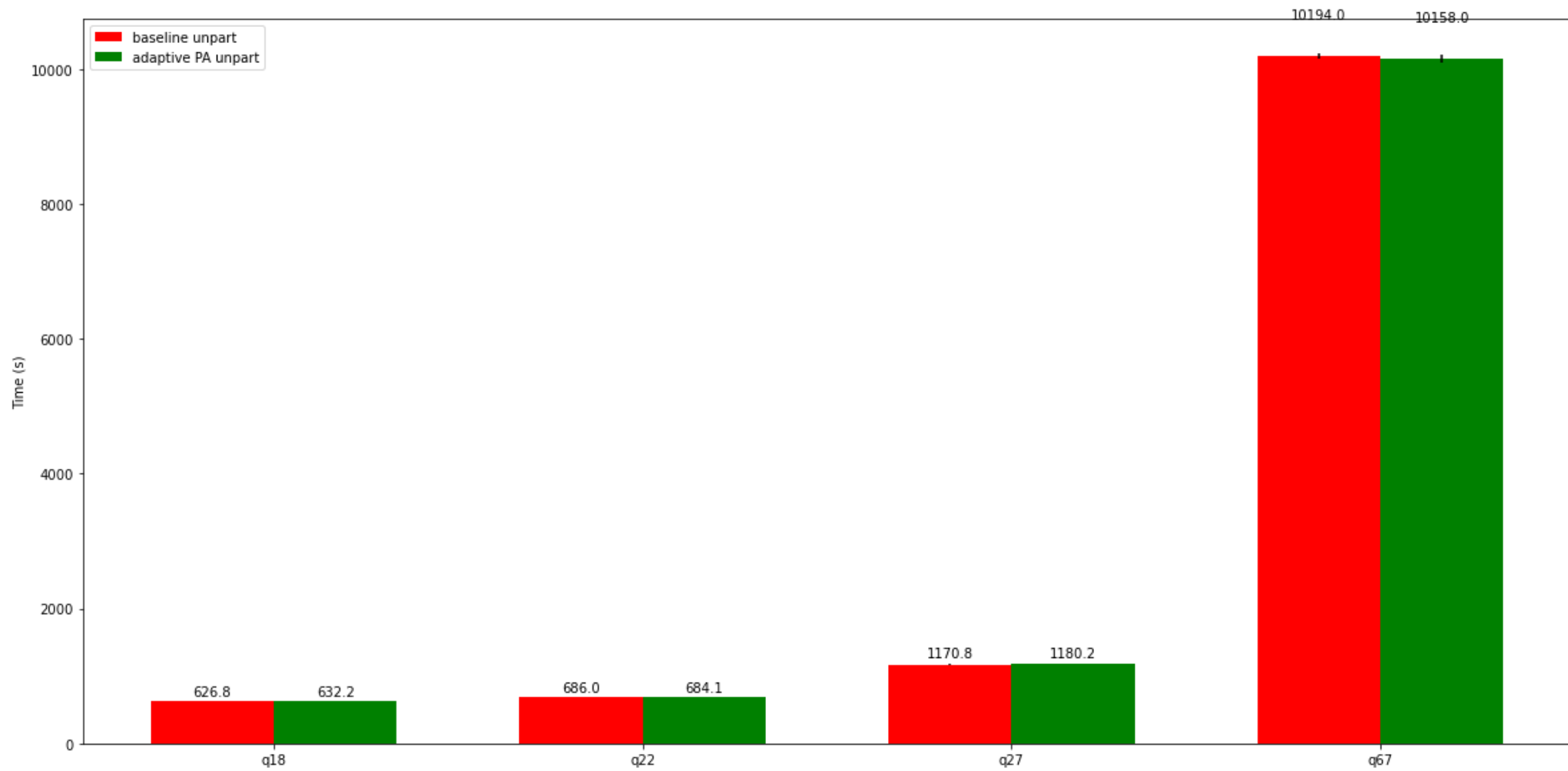












	query	baseline unpart mean	baseline unpart std.dev	adaptive PA unpart mean	adaptive PA unpart std.dev	% change	baseline unpart std.dev %	adaptive PA unpart std.dev %	p-value
64	presto/tpcds: q65	3605.60	14.92	3052.40	4.90	-15.34	0.41	0.16	0.00000
96	presto/tpcds: q97	2194.20	10.23	1864.20	8.30	-15.04	0.47	0.45	0.00000
50	presto/tpcds: q51	2471.70	9.39	2154.70	6.81	-12.83	0.38	0.32	0.00000
38	presto/tpcds: q39	144.30	1.60	127.30	0.96	-11.78	1.11	0.76	0.00000
22	presto/tpcds: q23	21420.00	154.42	19068.00	37.18	-10.98	0.72	0.19	0.00000
77	presto/tpcds: q78	9756.00	22.77	9150.00	14.70	-6.21	0.23	0.16	0.00000

	query	baseline unpart mean	baseline unpart std.dev	adaptive PA unpart mean	adaptive PA unpart std.dev	% change	baseline unpart std.dev %	adaptive PA unpart std.dev %	p-value
74	presto/tpcds:q75	5214.00	14.70	5010.00	14.70	-3.91	0.28	0.29	0.00000
0	presto/tpcds:q01	438.80	5.59	423.10	1.80	-3.58	1.27	0.42	0.00006
69	presto/tpcds:q70	2387.00	9.47	2324.80	10.88	-2.61	0.40	0.47	0.00000
86	presto/tpcds:q87	1870.10	5.90	1821.70	8.01	-2.59	0.32	0.44	0.00000
85	presto/tpcds:q86	456.60	3.54	444.80	2.67	-2.58	0.78	0.60	0.00007
37	presto/tpcds:q38	1826.80	7.61	1781.90	9.38	-2.46	0.42	0.53	0.00000
61	presto/tpcds:q62	491.30	1.22	479.40	1.31	-2.42	0.25	0.27	0.00000
79	presto/tpcds:q80	7014.00	14.70	6846.00	14.70	-2.40	0.21	0.21	0.00000
80	presto/tpcds:q81	324.40	7.80	317.00	9.67	-2.28	2.40	3.05	0.17534
49	presto/tpcds:q50	1827.10	2.77	1786.60	3.97	-2.22	0.15	0.22	0.00000
71	presto/tpcds:q72	2901.70	22.71	2838.80	26.20	-2.17	0.78	0.92	0.00125
83	presto/tpcds:q84	59.10	0.12	57.84	0.21	-2.13	0.20	0.37	0.00000
98	presto/tpcds:q99	913.60	1.45	894.60	2.24	-2.08	0.16	0.25	0.00000
15	presto/tpcds:q16	942.00	3.79	923.30	2.82	-1.99	0.40	0.31	0.00000
30	presto/tpcds:q31	2710.10	5.62	2657.80	6.92	-1.93	0.21	0.26	0.00000
94	presto/tpcds:q95	1545.60	2.52	1515.90	2.45	-1.92	0.16	0.16	0.00000
87	presto/tpcds:q88	3780.00	0.00	3708.00	0.00	-1.90	0.00	0.00	0.00000
34	presto/tpcds:q35	853.60	7.20	837.60	20.20	-1.87	0.84	2.41	0.09757
46	presto/tpcds:q47	9756.00	55.77	9576.00	0.00	-1.85	0.57	0.00	0.00001

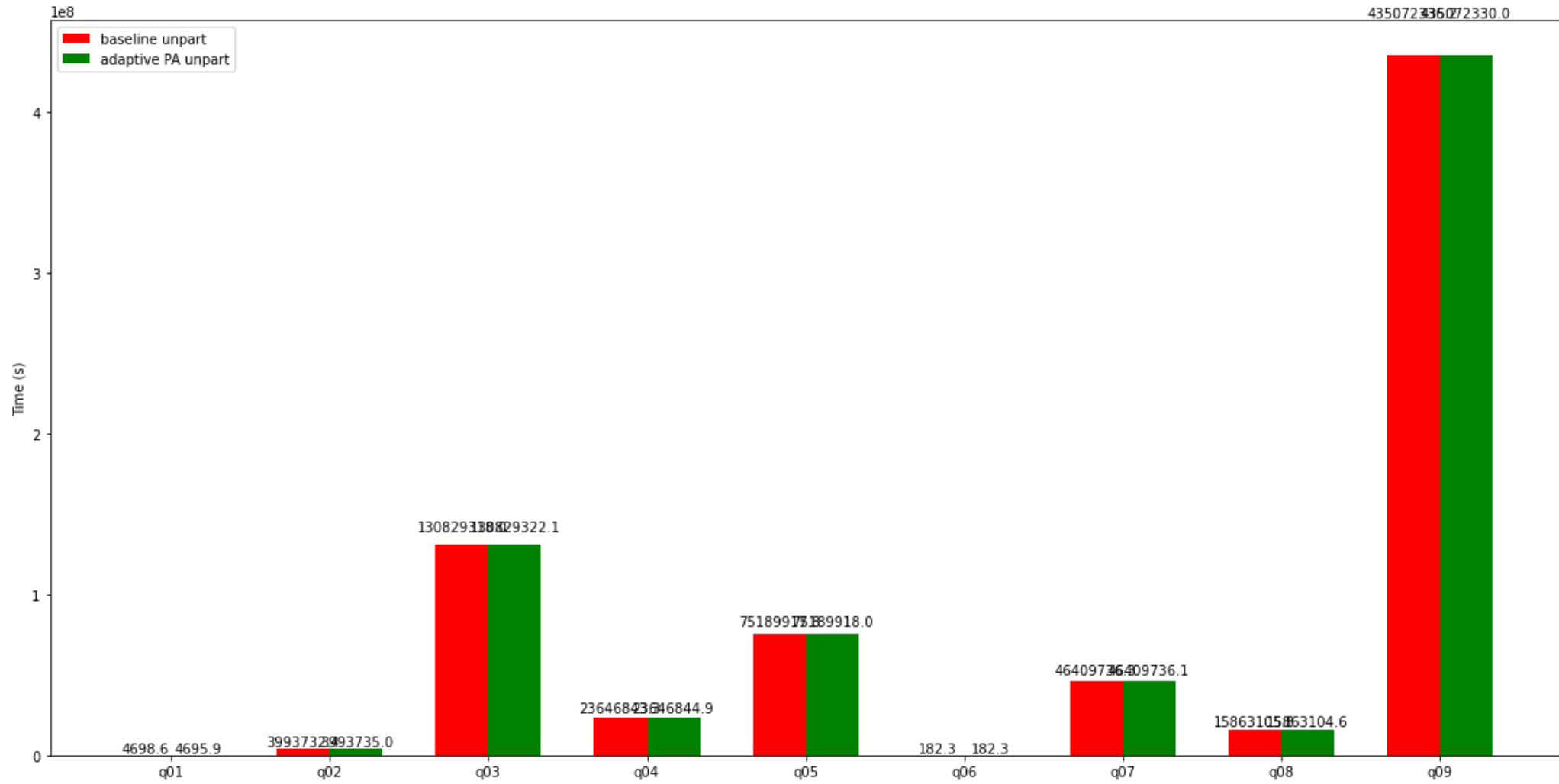
	query	baseline unpart mean	baseline unpart std.dev	adaptive PA unpart mean	adaptive PA unpart std.dev	% change	baseline unpart std.dev %	adaptive PA unpart std.dev %	p-value
73	presto/tpcds: q74	3545.00	8.50	3483.50	22.38	-1.73	0.24	0.64	0.00009
28	presto/tpcds: q29	1529.10	5.28	1504.30	9.33	-1.62	0.35	0.62	0.00021
13	presto/tpcds: q14	21270.00	182.74	20982.00	148.29	-1.35	0.86	0.71	0.01340
63	presto/tpcds: q64	16254.00	54.60	16038.00	44.09	-1.33	0.34	0.27	0.00002
56	presto/tpcds: q57	3924.00	0.00	3876.00	18.59	-1.22	0.00	0.48	0.00009
52	presto/tpcds: q53	825.30	0.83	815.90	0.96	-1.14	0.10	0.12	0.00000
58	presto/tpcds: q59	5388.00	18.59	5328.00	32.20	-1.11	0.35	0.60	0.00272
93	presto/tpcds: q94	541.70	0.59	536.50	0.45	-0.96	0.11	0.08	0.00000
47	presto/tpcds: q48	2179.20	3.33	2158.60	3.03	-0.95	0.15	0.14	0.00000
33	presto/tpcds: q34	600.30	0.50	594.90	0.83	-0.90	0.08	0.14	0.00000
10	presto/tpcds: q11	5364.00	0.00	5316.00	29.39	-0.89	0.00	0.55	0.00252
53	presto/tpcds: q54	1036.60	7.26	1028.10	5.76	-0.82	0.70	0.56	0.04845
92	presto/tpcds: q93	3624.00	18.59	3598.90	1.71	-0.69	0.51	0.05	0.00811
23	presto/tpcds: q24	3271.10	12.61	3250.80	10.73	-0.62	0.39	0.33	0.01326
42	presto/tpcds: q43	1041.80	5.71	1035.40	4.64	-0.61	0.55	0.45	0.05907
57	presto/tpcds: q58	1133.80	1.50	1127.20	2.00	-0.58	0.13	0.18	0.00007
12	presto/tpcds: q13	2486.10	5.76	2472.30	14.93	-0.56	0.23	0.60	0.06081
31	presto/tpcds: q32	511.20	2.28	508.40	1.40	-0.55	0.45	0.28	0.02815
41	presto/tpcds: q42	724.70	1.44	720.90	3.21	-0.52	0.20	0.45	0.02463

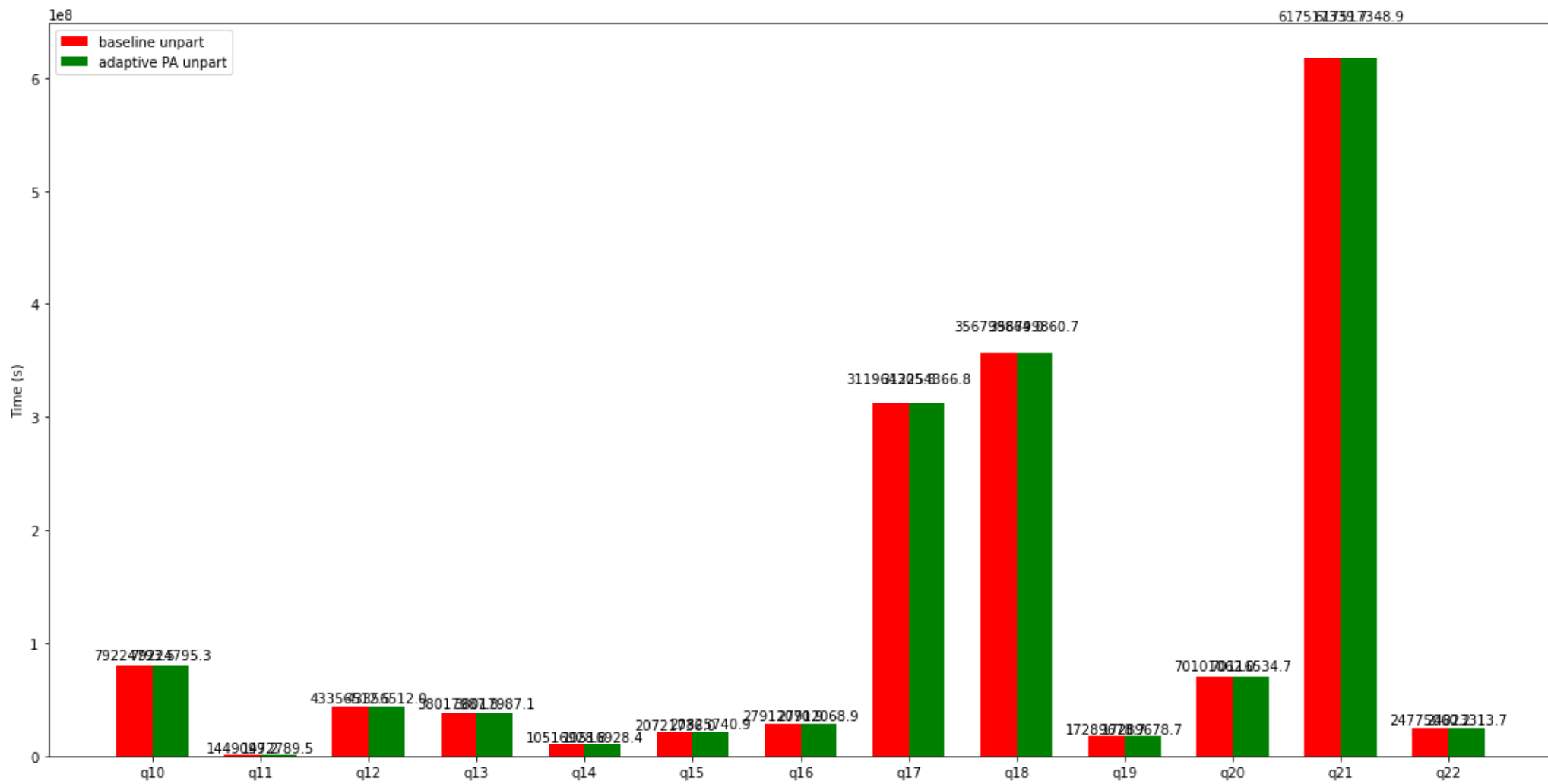
	query	baseline unpart mean	baseline unpart std.dev	adaptive PA unpart mean	adaptive PA unpart std.dev	% change	baseline unpart std.dev %	adaptive PA unpart std.dev %	p-value
2	presto/tpcds:q03	672.20	0.62	668.80	2.14	-0.51	0.09	0.32	0.00381
84	presto/tpcds:q85	582.40	5.66	579.50	5.75	-0.50	0.97	0.99	0.39930
62	presto/tpcds:q63	823.90	1.44	820.00	1.18	-0.47	0.17	0.14	0.00044
14	presto/tpcds:q15	238.30	0.59	237.20	0.31	-0.46	0.25	0.13	0.00235
89	presto/tpcds:q90	246.10	0.70	245.00	0.49	-0.45	0.29	0.20	0.01035
5	presto/tpcds:q06	572.70	0.50	570.40	0.73	-0.40	0.09	0.13	0.00008
35	presto/tpcds:q36	1032.40	0.62	1028.40	2.66	-0.39	0.06	0.26	0.00491
7	presto/tpcds:q08	697.50	0.63	694.80	2.79	-0.39	0.09	0.40	0.04325
11	presto/tpcds:q12	181.20	0.00	180.50	0.24	-0.39	0.00	0.14	0.00004
36	presto/tpcds:q37	220.10	0.24	219.30	0.33	-0.36	0.11	0.15	0.00074
9	presto/tpcds:q10	586.30	0.88	584.20	0.62	-0.36	0.15	0.11	0.00076
51	presto/tpcds:q52	728.30	0.59	725.70	0.99	-0.36	0.08	0.14	0.00025
66	presto/tpcds:q67	10194.00	42.09	10158.00	66.05	-0.35	0.41	0.65	0.28651
88	presto/tpcds:q89	1076.20	1.30	1072.40	1.81	-0.35	0.12	0.17	0.00187
24	presto/tpcds:q25	1300.50	8.70	1296.00	4.21	-0.35	0.67	0.32	0.28068
6	presto/tpcds:q07	1273.30	2.13	1269.00	2.49	-0.34	0.17	0.20	0.00921
21	presto/tpcds:q22	686.00	2.23	684.10	2.26	-0.28	0.33	0.33	0.17364
68	presto/tpcds:q69	606.50	1.16	605.00	0.98	-0.25	0.19	0.16	0.03641
39	presto/tpcds:q40	1031.00	8.87	1028.50	20.64	-0.24	0.86	2.01	0.79070

	query	baseline unpart mean	baseline unpart std.dev	adaptive PA unpart mean	adaptive PA unpart std.dev	% change	baseline unpart std.dev %	adaptive PA unpart std.dev %	p-value
72	presto/tpcds:q73	585.00	1.00	584.00	0.62	-0.17	0.17	0.11	0.06462
91	presto/tpcds:q92	349.80	0.38	349.30	0.59	-0.14	0.11	0.17	0.11139
65	presto/tpcds:q66	744.90	6.58	744.00	5.82	-0.12	0.88	0.78	0.80690
29	presto/tpcds:q30	206.70	5.59	206.50	8.86	-0.10	2.70	4.29	0.96362
60	presto/tpcds:q61	1788.40	5.61	1786.70	3.90	-0.10	0.31	0.22	0.55575
1	presto/tpcds:q02	3172.20	6.52	3170.00	15.39	-0.07	0.21	0.49	0.75382
95	presto/tpcds:q96	446.80	0.73	446.60	0.62	-0.04	0.16	0.14	0.61910
3	presto/tpcds:q04	9216.00	32.20	9216.00	39.44	0.00	0.35	0.43	1.00000
67	presto/tpcds:q68	1266.50	2.64	1267.30	2.69	0.06	0.21	0.21	0.61476
75	presto/tpcds:q76	993.20	3.41	994.40	2.00	0.12	0.34	0.20	0.47388
4	presto/tpcds:q05	2446.40	5.46	2449.40	4.94	0.12	0.22	0.20	0.34171
16	presto/tpcds:q17	1166.10	0.99	1167.60	2.04	0.13	0.08	0.18	0.13644
70	presto/tpcds:q71	1229.80	1.18	1231.50	2.86	0.14	0.10	0.23	0.20787
59	presto/tpcds:q60	1216.40	5.55	1219.00	3.59	0.21	0.46	0.29	0.35796
97	presto/tpcds:q98	717.10	1.67	718.70	1.03	0.22	0.23	0.14	0.07415
18	presto/tpcds:q19	845.60	5.85	848.20	8.17	0.31	0.69	0.96	0.54048
54	presto/tpcds:q55	703.80	1.26	706.10	0.88	0.33	0.18	0.13	0.00436
8	presto/tpcds:q09	3409.10	11.07	3421.50	13.17	0.36	0.32	0.38	0.10792
32	presto/tpcds:q33	1138.30	2.06	1142.50	3.07	0.37	0.18	0.27	0.01932

max 2
Name: % change, dtype: float64

TPC-H Comparison (Network)

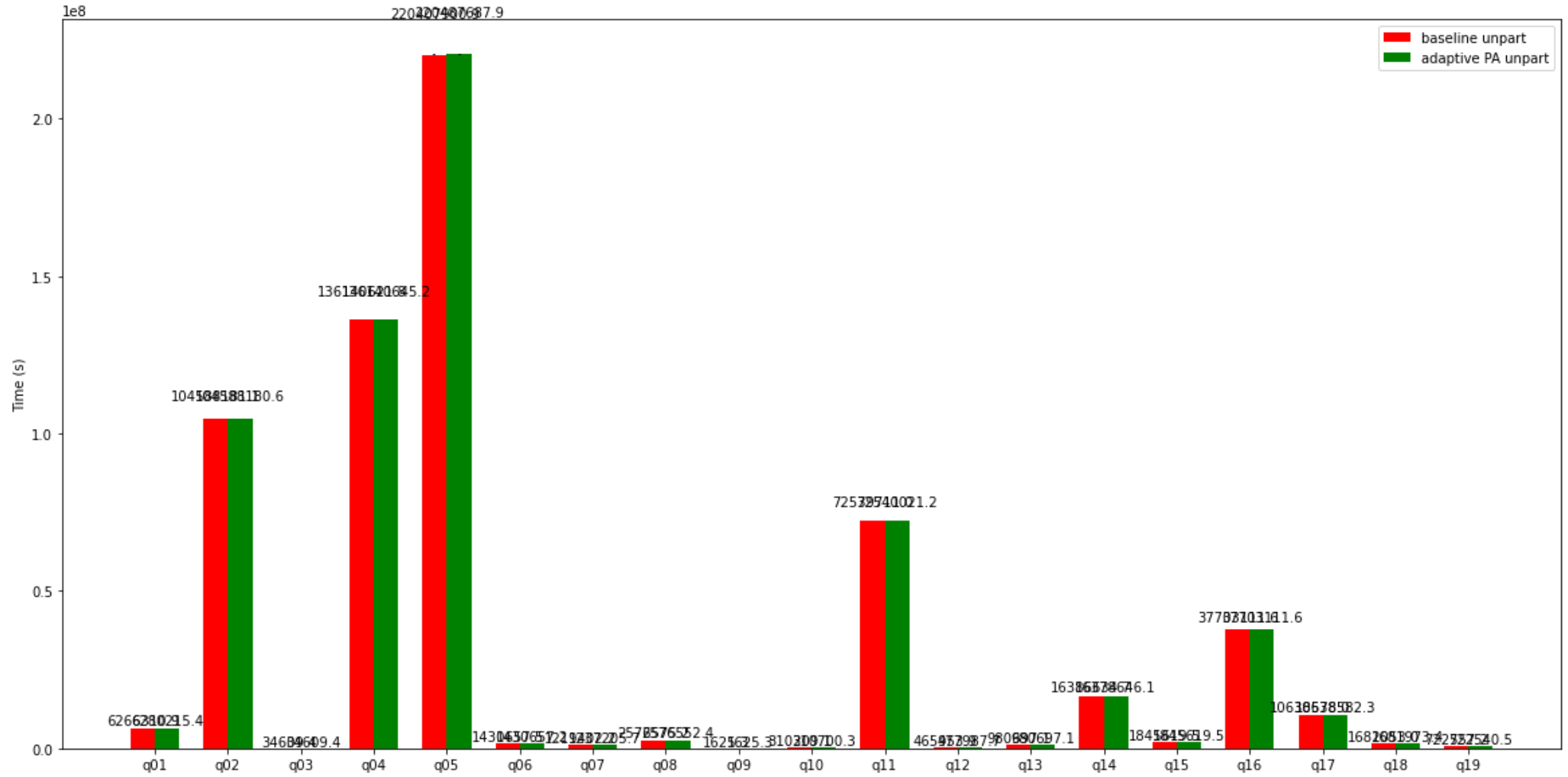




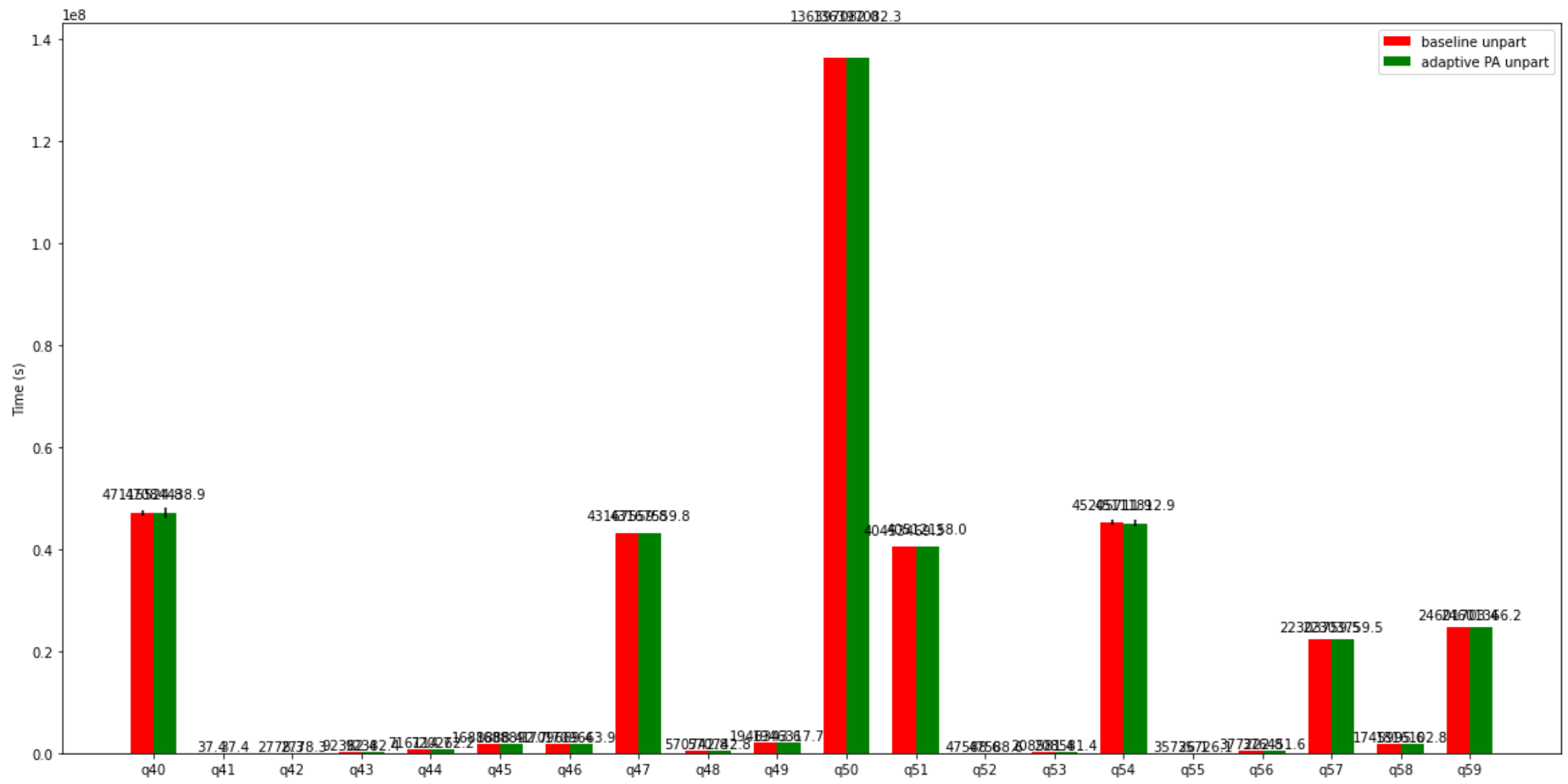
	query	baseline unpart mean	baseline unpart std.dev	adaptive PA unpart mean	adaptive PA unpart std.dev	% change	baseline unpart std.dev %	adaptive PA unpart std.dev %	p-value
0	presto/tpch: q01	4698.65	12.82	4695.90	15.57	-0.06	0.27	0.33	0.74613
7	presto/tpch: q08	15863105.78	2.72	15863104.59	4.06	-0.00	0.00	0.00	0.56397
15	presto/tpch: q16	27912070.95	2.97	27912068.91	3.03	-0.00	0.00	0.00	0.26807
13	presto/tpch: q14	10516928.78	2.23	10516928.41	2.84	-0.00	0.00	0.00	0.80586
12	presto/tpch: q13	38017987.77	1.03	38017987.12	1.13	-0.00	0.00	0.00	0.32047

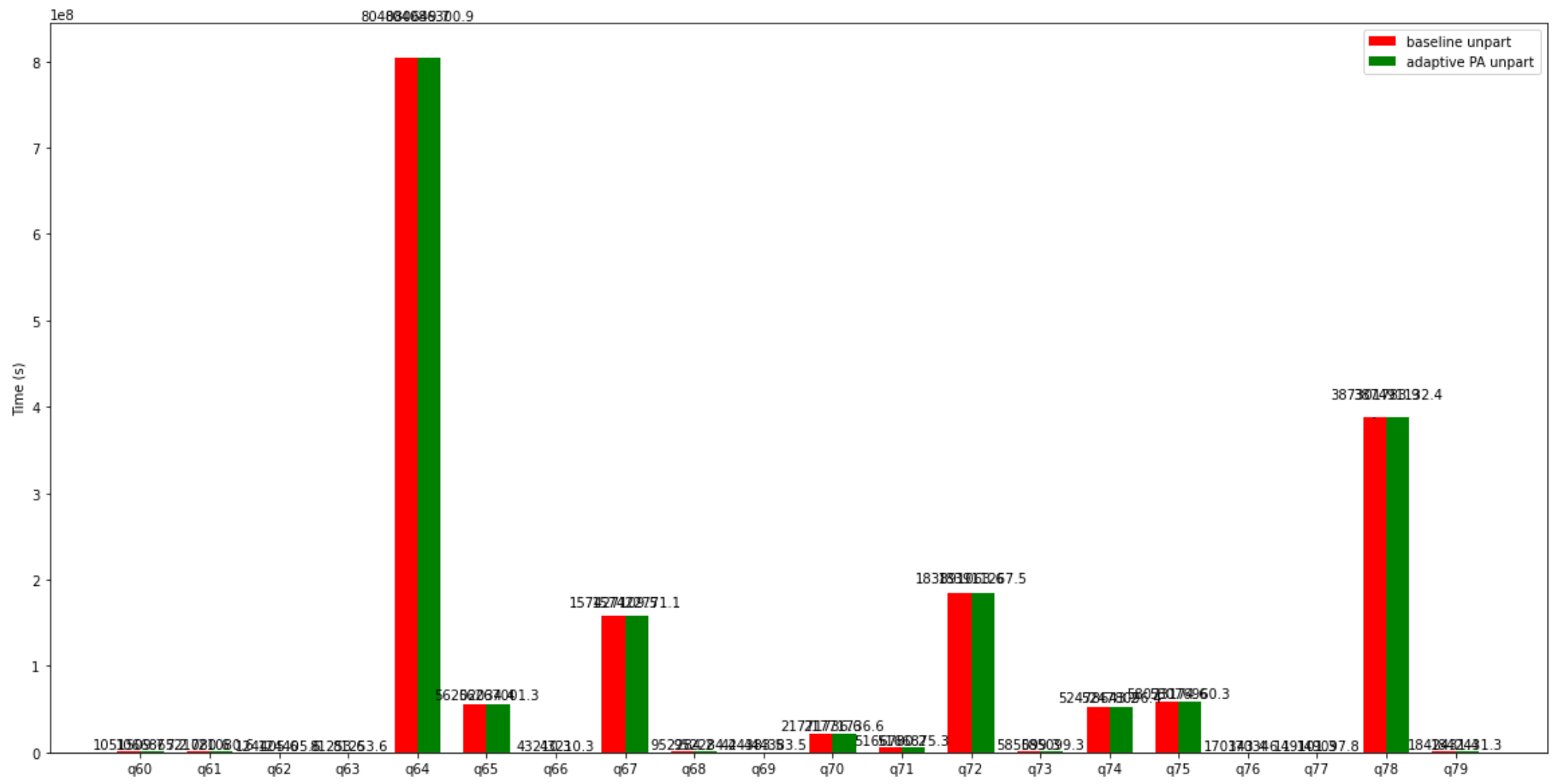
max 2
Name: % change, dtype: float64

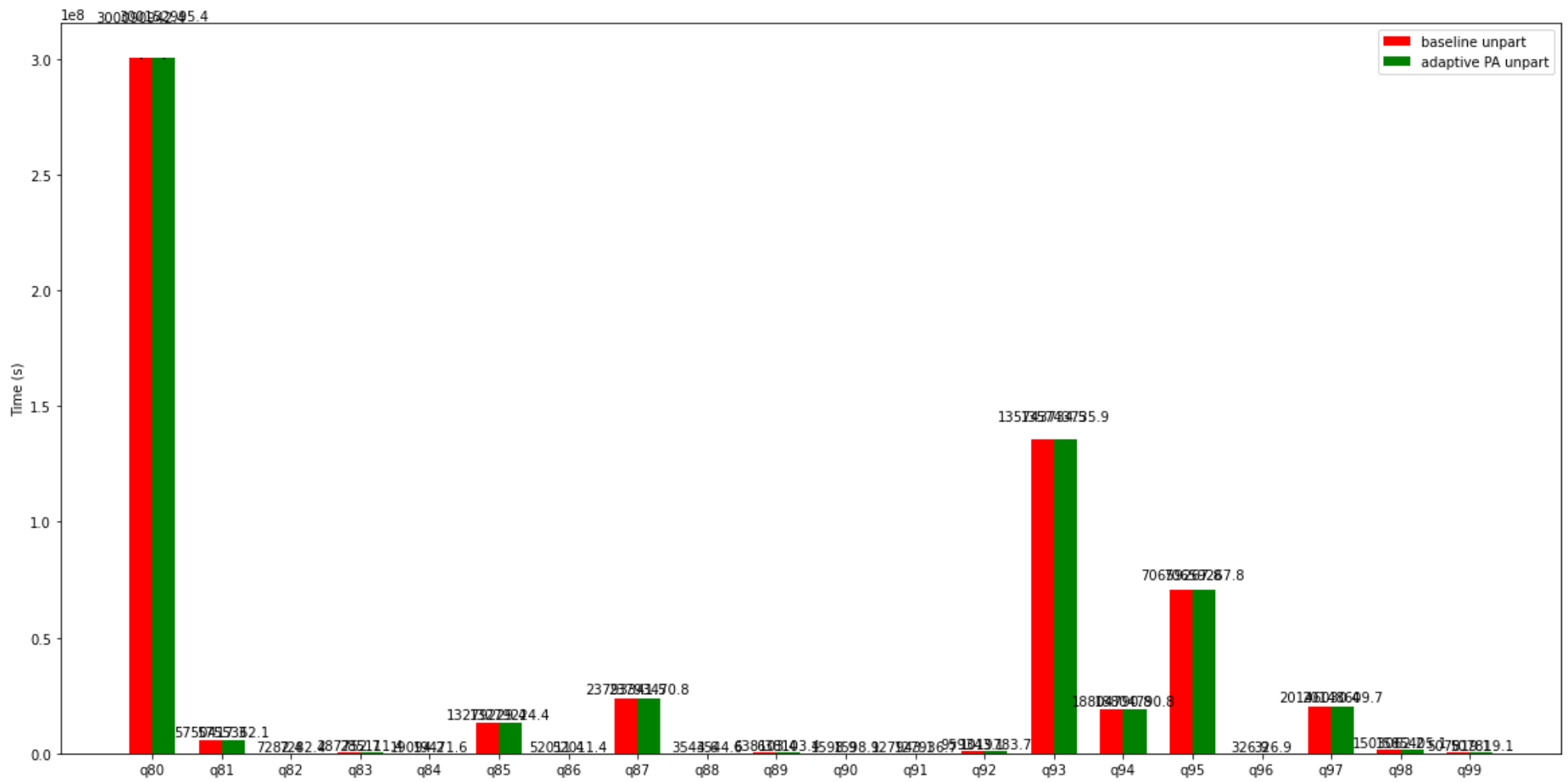
TPC-DS Comparison (Network)











	query	baseline unpart mean	baseline unpart std.dev	adaptive PA unpart mean	adaptive PA unpart std.dev	% change	baseline unpart std.dev %	adaptive PA unpart std.dev %	p-value
26	presto/tpcds: q27	128316.37	4738.38	126018.66	2821.31	-1.79	3.69	2.24	0.33151
82	presto/tpcds: q83	287752.72	2311.46	285111.37	892.91	-0.92	0.80	0.31	0.02599
53	presto/tpcds: q54	45205711.92	457208.37	45111812.91	673139.13	-0.21	1.01	1.49	0.78321
55	presto/tpcds: q56	377222.80	757.10	376451.56	828.29	-0.20	0.20	0.22	0.12319
39	presto/tpcds: q40	47115524.81	531995.45	47084438.90	1125761.24	-0.07	1.13	2.39	0.95244

	query	baseline unpart mean	baseline unpart std.dev	adaptive PA unpart mean	adaptive PA unpart std.dev	% change	baseline unpart std.dev %	adaptive PA unpart std.dev %	p-value
13	presto/tpcds:q14	16386634.71	4129.97	16378646.14	5029.29	-0.05	0.03	0.03	0.01319
90	presto/tpcds:q91	127943.05	5.46	127936.74	4.89	-0.00	0.00	0.00	0.06113
17	presto/tpcds:q18	1682053.02	147.30	1681973.43	169.42	-0.00	0.01	0.01	0.40552
66	presto/tpcds:q67	157427109.55	5340.58	157422771.11	7808.96	-0.00	0.00	0.00	0.28756
18	presto/tpcds:q19	722557.23	11.78	722540.49	67.85	-0.00	0.00	0.01	0.56471
76	presto/tpcds:q77	149101.29	3.41	149097.83	3.00	-0.00	0.00	0.00	0.09230
58	presto/tpcds:q59	24601703.44	308.02	24601366.23	462.68	-0.00	0.00	0.00	0.16810
48	presto/tpcds:q49	1946343.63	38.23	1946317.71	18.63	-0.00	0.00	0.00	0.16635
73	presto/tpcds:q74	52478643.21	920.39	52478096.41	505.51	-0.00	0.00	0.00	0.23096
7	presto/tpcds:q08	2576575.18	42.80	2576552.45	153.34	-0.00	0.00	0.01	0.73381
45	presto/tpcds:q46	1709669.37	6.71	1709663.92	3.53	-0.00	0.00	0.00	0.10848
38	presto/tpcds:q39	2357672.01	2.06	2357668.68	3.06	-0.00	0.00	0.00	0.05194
84	presto/tpcds:q85	13279229.45	4.02	13279224.36	5.63	-0.00	0.00	0.00	0.10181
24	presto/tpcds:q25	7658888.28	5.32	7658886.40	5.45	-0.00	0.00	0.00	0.55746
5	presto/tpcds:q06	1430657.52	1.52	1430657.19	2.08	-0.00	0.00	0.00	0.75990
78	presto/tpcds:q79	1842431.41	0.23	1842431.26	0.33	-0.00	0.00	0.00	0.38164
14	presto/tpcds:q15	1845619.55	105.34	1845619.46	158.44	-0.00	0.01	0.01	0.99911
72	presto/tpcds:q73	585099.28	0.01	585099.27	0.01	-0.00	0.00	0.00	0.23389
1	presto/tpcds:q02	104588181.10	1.12	104588180.55	1.08	-0.00	0.00	0.00	0.40622

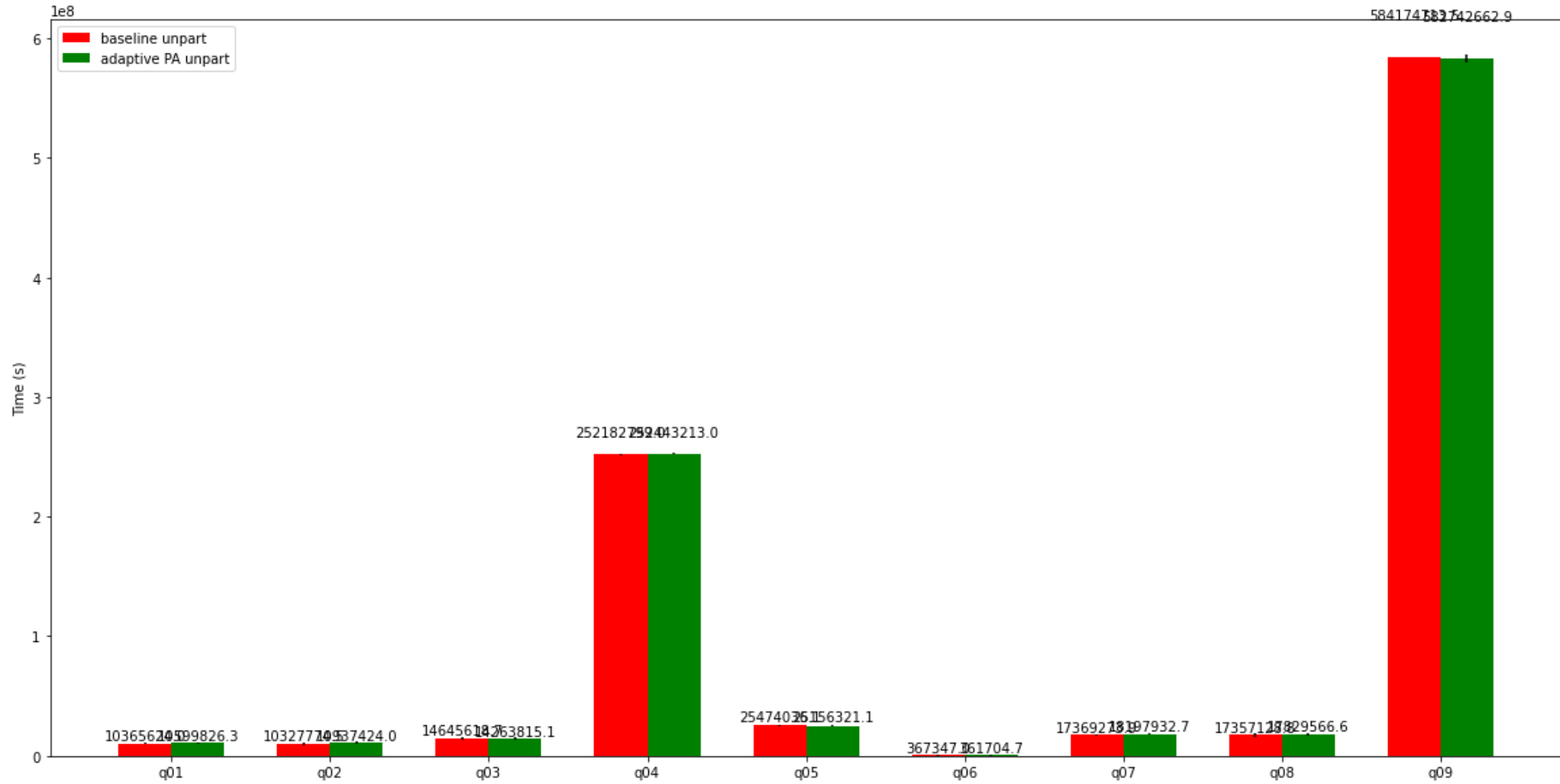
	query	baseline unpart mean	baseline unpart std.dev	adaptive PA unpart mean	adaptive PA unpart std.dev	% change	baseline unpart std.dev %	adaptive PA unpart std.dev %	p-value
42	presto/tpcds:q43	92382.40	0.00	92382.40	0.00	0.00	0.00	0.00	nan
61	presto/tpcds:q62	124405.62	0.00	124405.62	0.00	0.00	0.00	0.00	nan
46	presto/tpcds:q47	43167559.76	0.00	43167559.76	0.00	0.00	0.00	0.00	nan
41	presto/tpcds:q42	2778.25	0.00	2778.25	0.00	0.00	0.00	0.00	nan
47	presto/tpcds:q48	570742.83	0.00	570742.83	0.00	0.00	0.00	0.00	nan
40	presto/tpcds:q41	37.42	0.00	37.42	0.00	0.00	0.00	0.00	nan
60	presto/tpcds:q61	721080.55	0.00	721080.55	0.00	0.00	0.00	0.00	nan
51	presto/tpcds:q52	47588.59	0.00	47588.59	0.00	0.00	0.00	0.00	nan
52	presto/tpcds:q53	208581.40	0.00	208581.40	0.00	0.00	0.00	0.00	nan
54	presto/tpcds:q55	35726.13	0.00	35726.13	0.00	0.00	0.00	0.00	nan
62	presto/tpcds:q63	81253.60	0.00	81253.60	0.00	0.00	0.00	0.00	nan
65	presto/tpcds:q66	43210.33	0.00	43210.33	0.00	0.00	0.00	0.00	nan
98	presto/tpcds:q99	507819.09	0.00	507819.09	0.00	0.00	0.00	0.00	nan
35	presto/tpcds:q36	65153.53	0.00	65153.53	0.00	0.00	0.00	0.00	nan
2	presto/tpcds:q03	34609.43	0.00	34609.43	0.00	0.00	0.00	0.00	nan
95	presto/tpcds:q96	326.92	0.00	326.92	0.00	0.00	0.00	0.00	nan
94	presto/tpcds:q95	70659267.76	0.00	70659267.76	0.00	0.00	0.00	0.00	nan
93	presto/tpcds:q94	18804790.82	0.00	18804790.82	0.00	0.00	0.00	0.00	nan
8	presto/tpcds:q09	1625.35	0.00	1625.35	0.00	0.00	0.00	0.00	nan

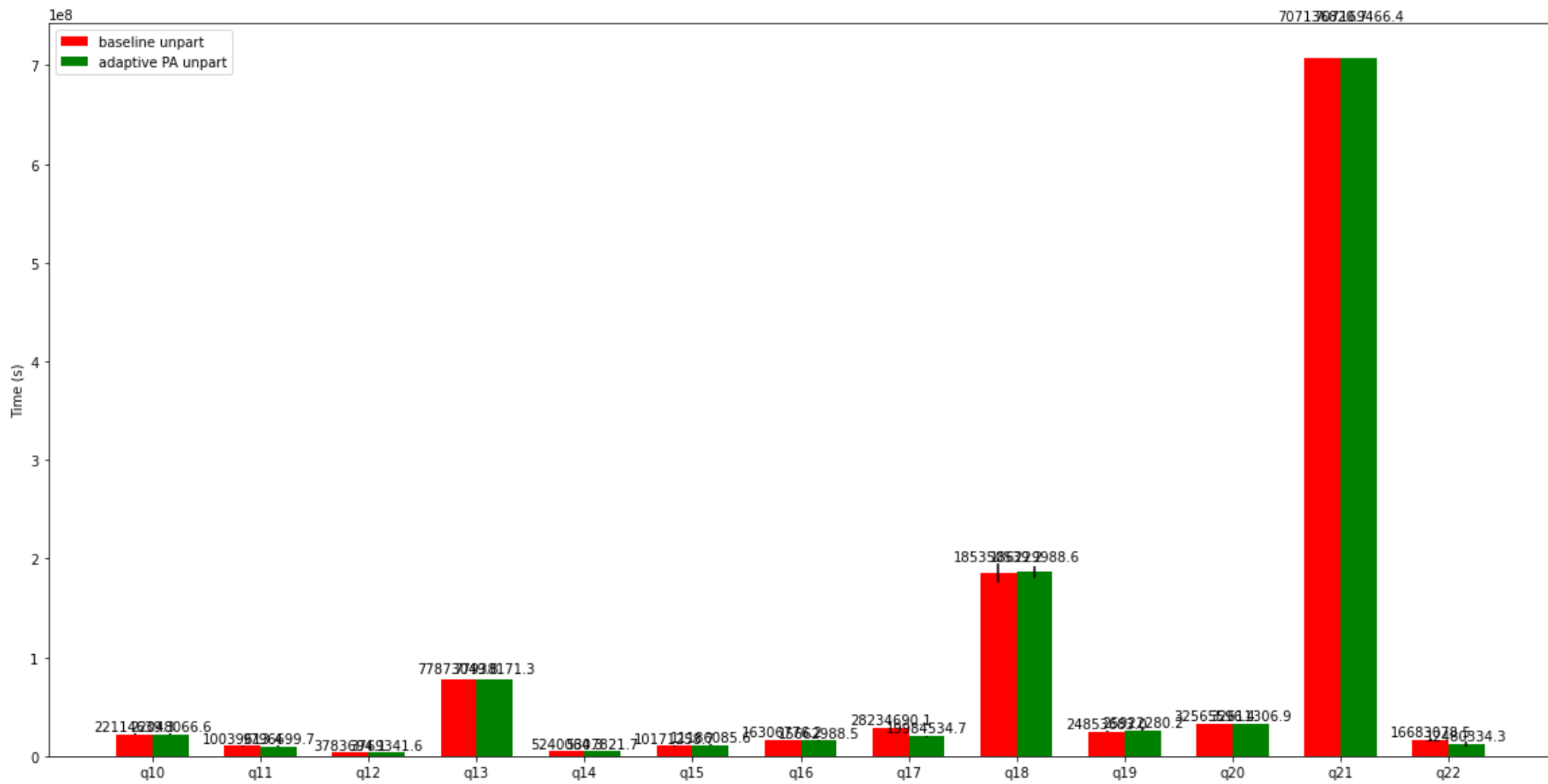
	query	baseline unpart mean	baseline unpart std.dev	adaptive PA unpart mean	adaptive PA unpart std.dev	% change	baseline unpart std.dev %	adaptive PA unpart std.dev %	p-value
89	presto/tpcds: q90	1598.93	0.00	1598.93	0.00	0.00	0.00	0.00	nan
88	presto/tpcds: q89	638103.41	0.00	638103.41	0.00	0.00	0.00	0.00	nan
12	presto/tpcds: q13	980697.07	0.00	980697.07	0.00	0.00	0.00	0.00	nan
15	presto/tpcds: q16	37703111.63	0.00	37703111.63	0.00	0.00	0.00	0.00	nan
87	presto/tpcds: q88	3544.58	0.00	3544.58	0.00	0.00	0.00	0.00	nan
85	presto/tpcds: q86	52011.43	0.00	52011.43	0.00	0.00	0.00	0.00	nan
20	presto/tpcds: q21	137212.56	0.00	137212.56	0.00	0.00	0.00	0.00	nan
21	presto/tpcds: q22	13408962.00	0.00	13408962.00	0.00	0.00	0.00	0.00	nan
81	presto/tpcds: q82	7282.41	0.00	7282.41	0.00	0.00	0.00	0.00	nan
27	presto/tpcds: q28	3181517.65	0.00	3181517.65	0.00	0.00	0.00	0.00	nan
69	presto/tpcds: q70	21771736.58	0.00	21771736.58	0.00	0.00	0.00	0.00	nan
68	presto/tpcds: q69	444383.50	0.00	444383.50	0.00	0.00	0.00	0.00	nan
36	presto/tpcds: q37	1471.84	0.00	1471.84	0.00	0.00	0.00	0.00	nan
56	presto/tpcds: q57	22303759.54	0.00	22303759.54	0.00	0.00	0.00	0.00	nan
49	presto/tpcds: q50	136397082.01	2.16	136397082.32	1.54	0.00	0.00	0.00	0.78385
33	presto/tpcds: q34	590700.37	0.00	590700.37	0.00	0.00	0.00	0.00	0.17395
92	presto/tpcds: q93	135743734.47	2.74	135743735.94	3.85	0.00	0.00	0.00	0.46374
28	presto/tpcds: q29	28116684.71	8.10	28116686.41	3.42	0.00	0.00	0.00	0.64579
67	presto/tpcds: q68	952284.17	0.30	952284.25	0.16	0.00	0.00	0.00	0.58244

	query	baseline unpart mean	baseline unpart std.dev	adaptive PA unpart mean	adaptive PA unpart std.dev	% change	baseline unpart std.dev %	adaptive PA unpart std.dev %	p-value
3	presto/tpcds:q04	136140621.84	602.56	136140645.18	946.58	0.00	0.00	0.00	0.96035
16	presto/tpcds:q17	10638578.04	11.35	10638582.26	13.43	0.00	0.00	0.00	0.56987
23	presto/tpcds:q24	33130726.07	64.35	33130757.32	28.38	0.00	0.00	0.00	0.30194
37	presto/tpcds:q38	23793343.63	113.76	23793373.10	99.73	0.00	0.00	0.00	0.64352
44	presto/tpcds:q45	1688888.38	1.95	1688892.73	5.19	0.00	0.00	0.00	0.08407
10	presto/tpcds:q11	72539711.03	403.61	72540021.23	305.48	0.00	0.00	0.00	0.16422
86	presto/tpcds:q87	23793341.50	217.05	23793470.78	186.19	0.00	0.00	0.00	0.29407
34	presto/tpcds:q35	3506425.81	587.37	3506449.21	1062.65	0.00	0.02	0.03	0.96328
63	presto/tpcds:q64	804080649.66	5135.87	804086300.89	17815.96	0.00	0.00	0.00	0.47251
75	presto/tpcds:q76	170343.43	6.62	170346.07	6.08	0.00	0.00	0.00	0.48846
32	presto/tpcds:q33	846435.62	294.64	846450.41	146.21	0.00	0.03	0.02	0.91445
70	presto/tpcds:q71	5166780.22	855.80	5166875.32	794.14	0.00	0.02	0.02	0.84585
29	presto/tpcds:q30	2964044.45	109.62	2964117.03	28.84	0.00	0.00	0.00	0.14784
74	presto/tpcds:q75	58073174.56	40.41	58076960.30	63.94	0.01	0.00	0.00	0.00000
71	presto/tpcds:q72	183891063.57	25374.26	183911267.53	12377.02	0.01	0.01	0.01	0.11015
96	presto/tpcds:q97	20146030.37	0.00	20148609.71	142.75	0.01	0.00	0.00	0.00000
30	presto/tpcds:q31	13764022.28	1171.20	13766405.17	1908.20	0.02	0.01	0.01	0.02618
79	presto/tpcds:q80	300090942.45	76264.09	300152995.38	153058.70	0.02	0.03	0.05	0.39496
22	presto/tpcds:q23	451958176.83	24.77	452077822.44	341.88	0.03	0.00	0.00	0.00000

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75% 0
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TPC-H Comparison (Peak memory)

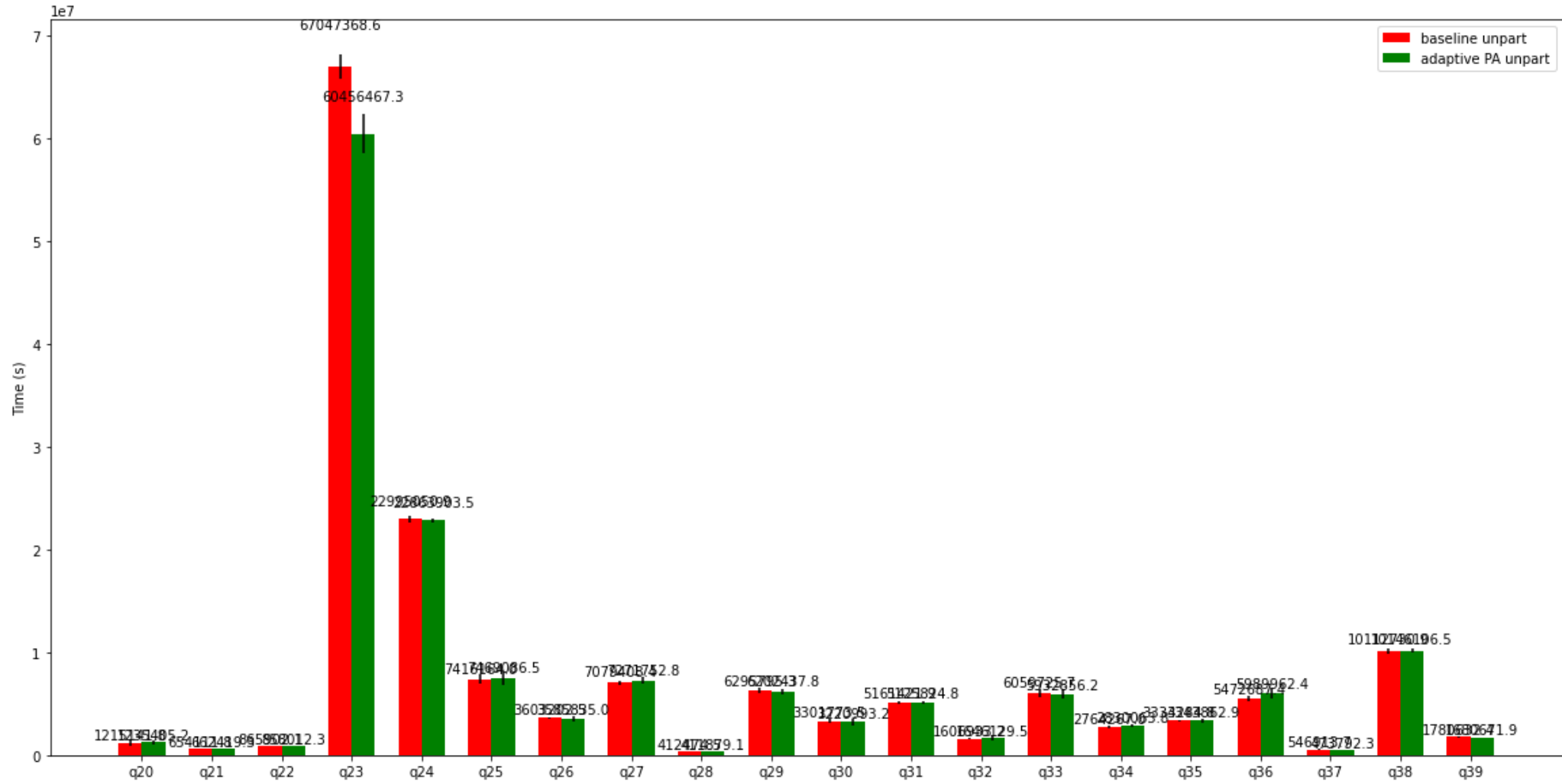


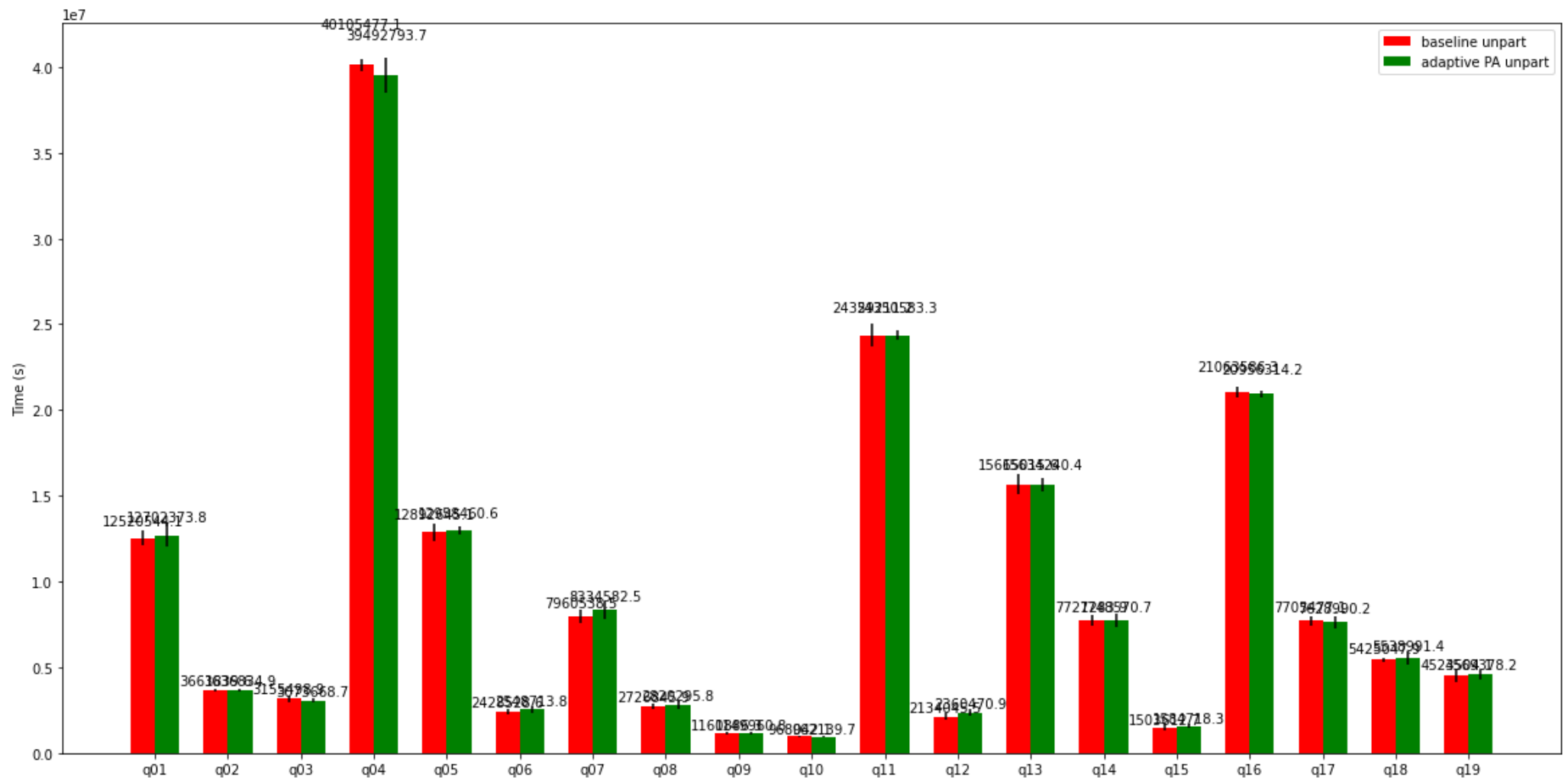


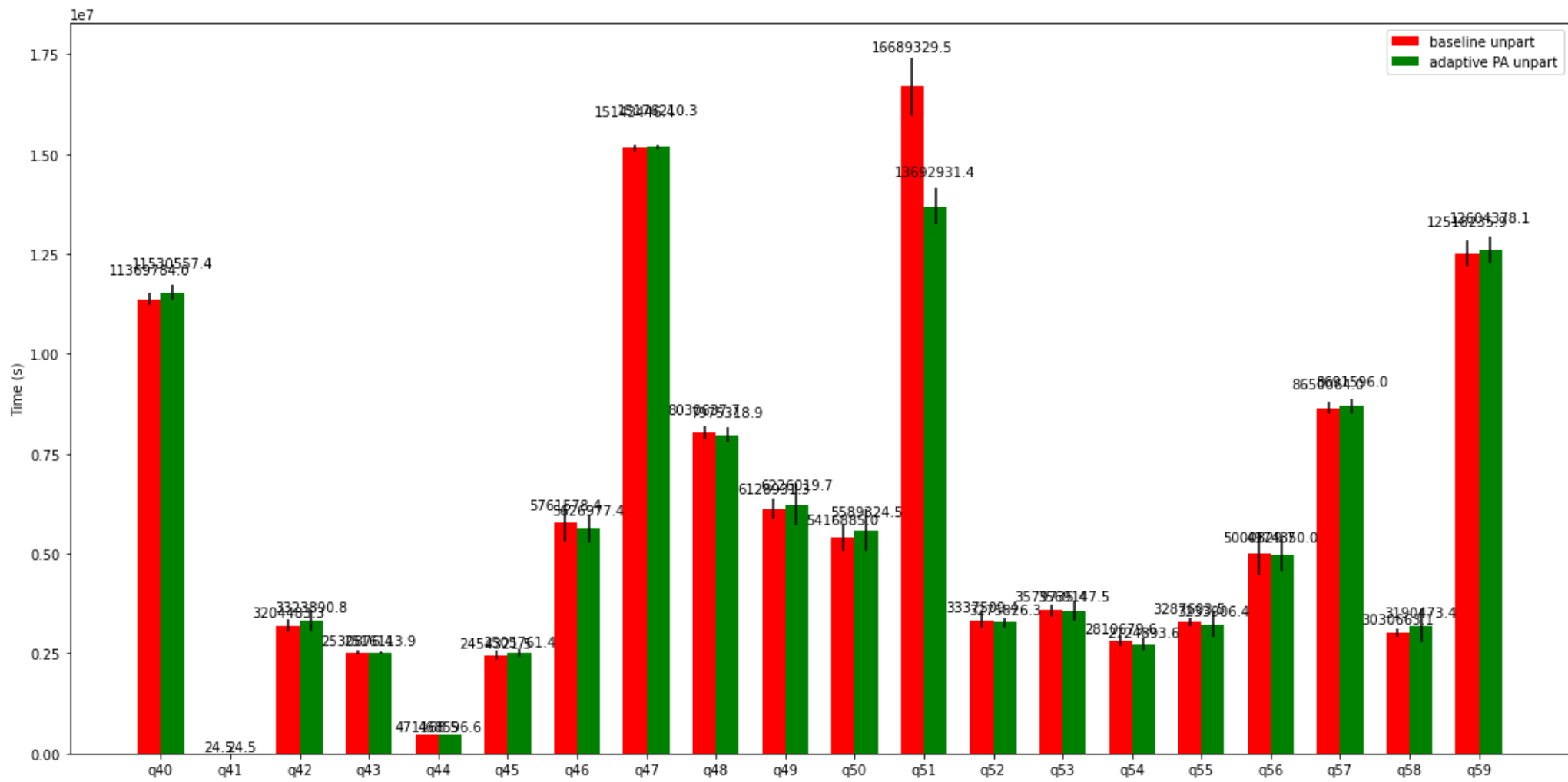
	query	baseline unpart mean	baseline unpart std.dev	adaptive PA unpart mean	adaptive PA unpart std.dev	% change	baseline unpart std.dev %	adaptive PA unpart std.dev %	p-value
16	presto/tpch: q17	28234690.14	629967.41	19984534.68	815329.38	-29.22	2.23	4.08	0.00000
21	presto/tpch: q22	16683078.53	1314441.60	12480334.28	2631887.02	-25.19	7.88	21.09	0.00573
15	presto/tpch: q16	16306776.22	158515.89	15662988.51	241497.81	-3.95	0.97	1.54	0.00028
2	presto/tpch: q03	14645618.66	924684.00	14263815.09	1105134.90	-2.61	6.31	7.75	0.53094
10	presto/tpch: q11	10039613.36	780164.36	9796699.66	596921.48	-2.42	7.77	6.09	0.55820

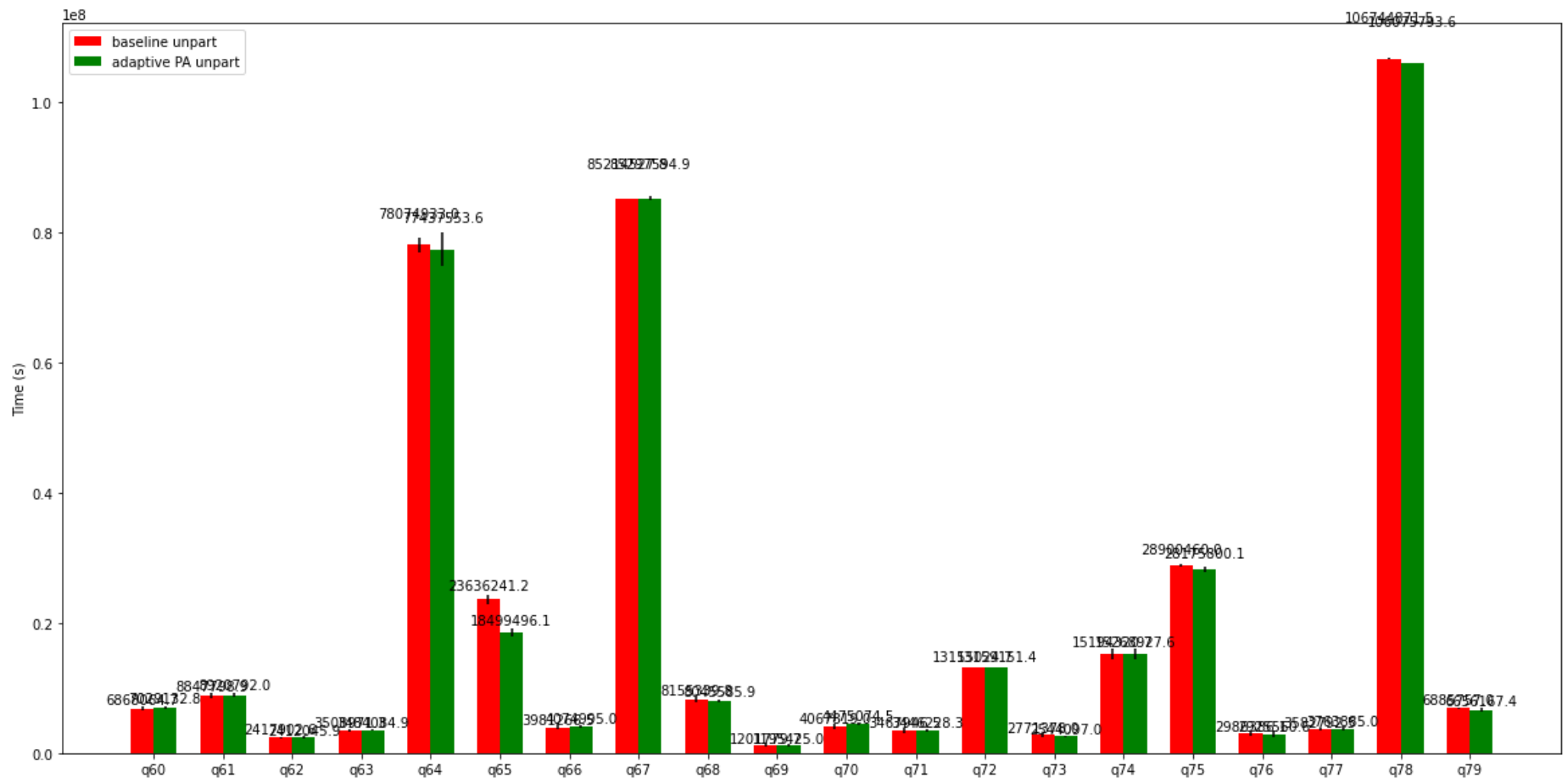
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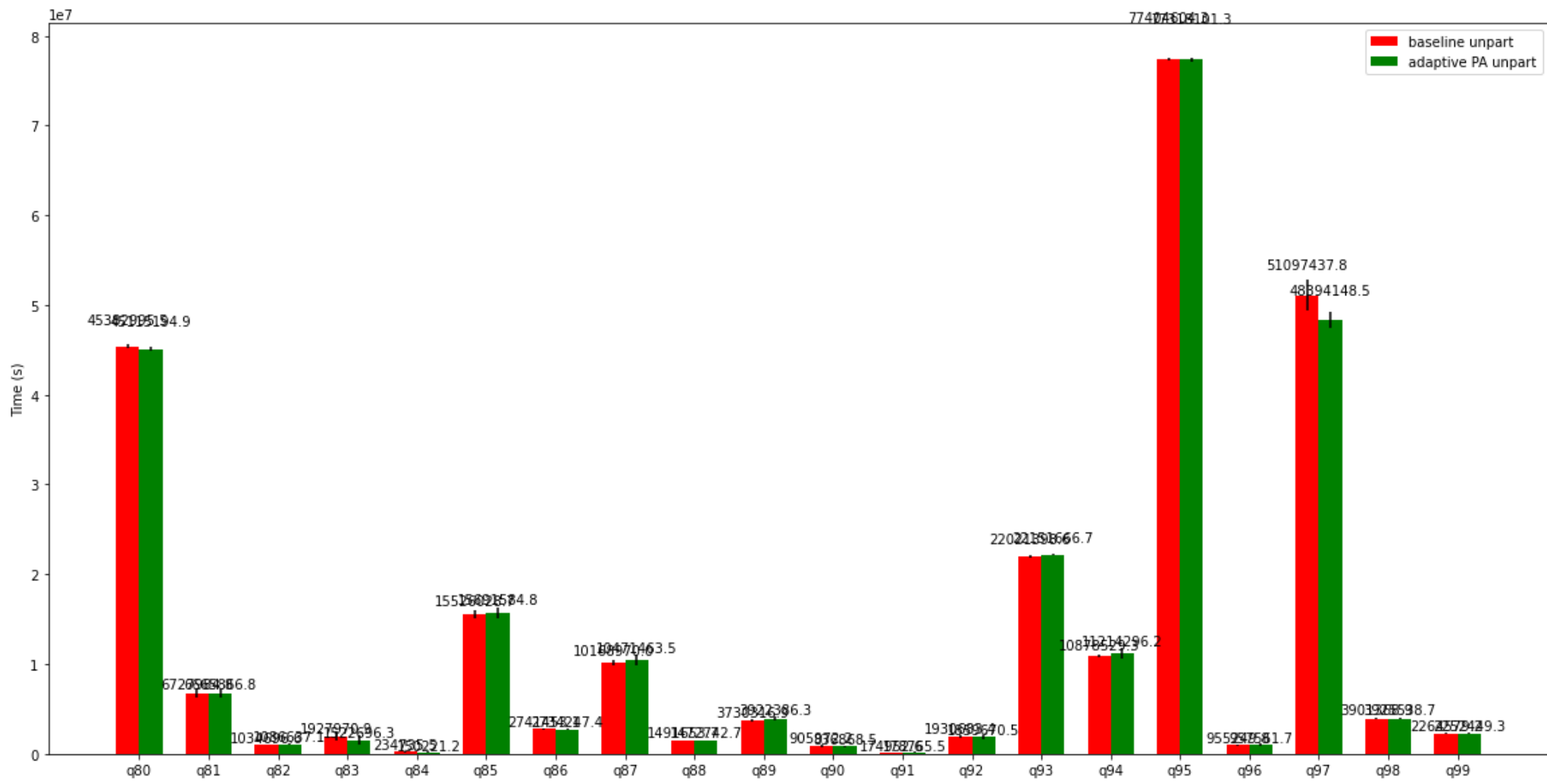
TPC-DS Comparison (Peak memory)

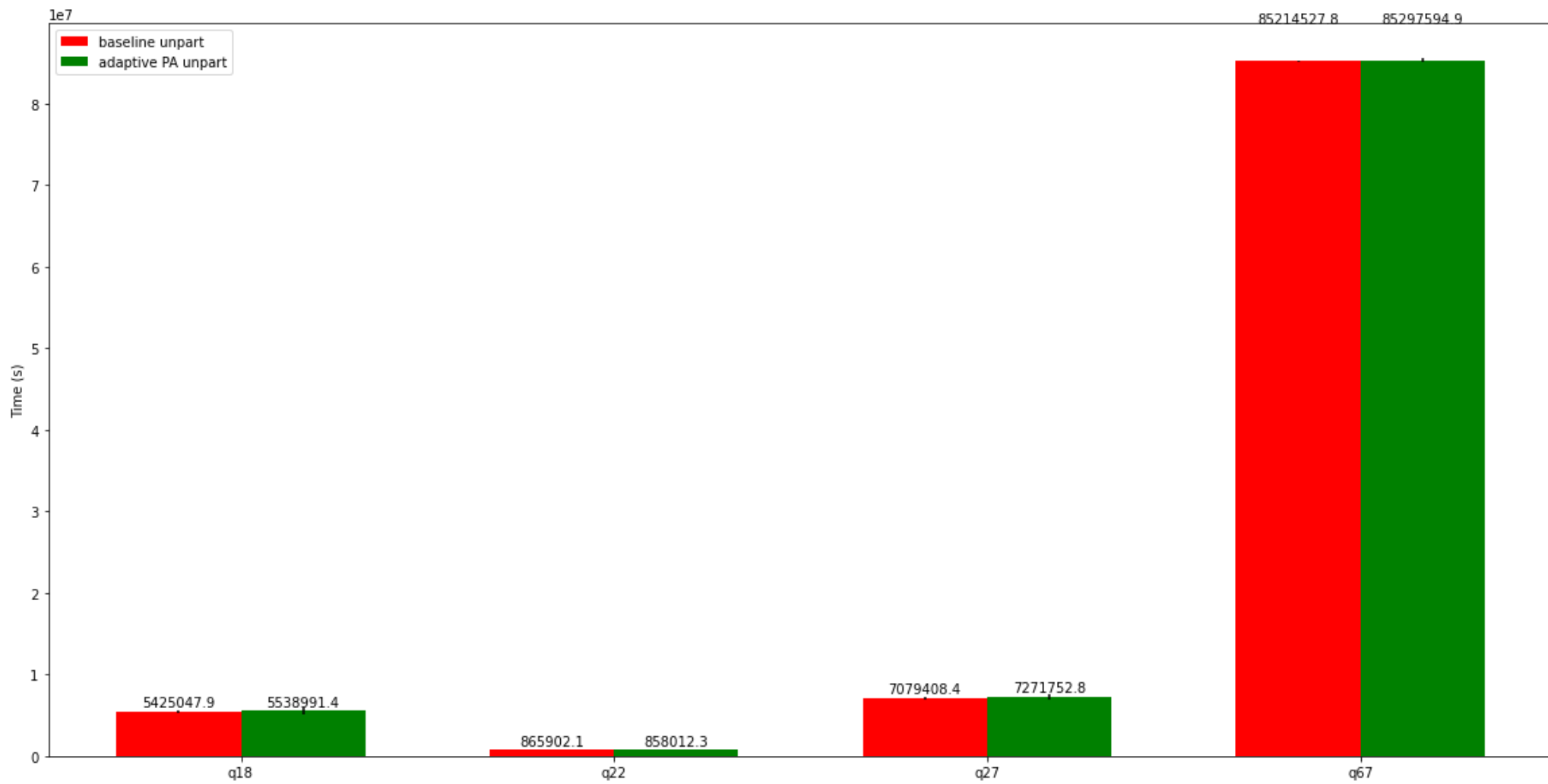












	query	baseline unpart mean	baseline unpart std.dev	adaptive PA unpart mean	adaptive PA unpart std.dev	% change	baseline unpart std.dev %	adaptive PA unpart std.dev %	p-value
83	presto/tpcds: q84	234735.46	101283.10	150221.25	57212.64	-36.00	43.15	38.09	0.10549
64	presto/tpcds: q65	23636241.23	738894.20	18499496.13	658577.94	-21.73	3.13	3.56	0.00000
82	presto/tpcds: q83	1927970.85	532362.04	1522696.28	574372.32	-21.02	27.61	37.72	0.23366
50	presto/tpcds: q51	16689329.54	719496.34	13692931.37	458296.81	-17.95	4.31	3.35	0.00001
36	presto/tpcds: q37	546913.72	97689.11	473792.27	30749.29	-13.37	17.86	6.49	0.11088

	query	baseline unpart mean	baseline unpart std.dev	adaptive PA unpart mean	adaptive PA unpart std.dev	% change	baseline unpart std.dev %	adaptive PA unpart std.dev %	p-value
22	presto/tpcds:q23	67047368.63	1149023.38	60456467.33	1918570.11	-9.83	1.71	3.17	0.00003
72	presto/tpcds:q73	2771377.97	263120.62	2544097.01	80760.47	-8.20	9.49	3.17	0.07066
89	presto/tpcds:q90	905972.20	171258.90	836868.52	103289.08	-7.63	18.90	12.34	0.41714
38	presto/tpcds:q39	1780632.38	54771.52	1680671.92	32250.80	-5.61	3.08	1.92	0.00320
96	presto/tpcds:q97	51097437.83	1698522.21	48394148.54	896195.09	-5.29	3.32	1.85	0.00625
91	presto/tpcds:q92	1930683.37	181946.28	1859670.48	205950.35	-3.68	9.42	11.07	0.54096
78	presto/tpcds:q79	6885756.97	130723.50	6656167.41	220077.25	-3.33	1.90	3.31	0.05271
53	presto/tpcds:q54	2810679.56	141556.76	2724893.59	152134.41	-3.05	5.04	5.58	0.33576
2	presto/tpcds:q03	3155498.90	163344.97	3073668.66	83989.98	-2.59	5.18	2.73	0.30074
74	presto/tpcds:q75	28900460.02	167575.92	28175800.15	450378.40	-2.51	0.58	1.60	0.00415
29	presto/tpcds:q30	3301773.55	226472.68	3220993.24	288342.86	-2.45	6.86	8.95	0.60123
45	presto/tpcds:q46	5761578.37	466255.78	5626977.44	362725.62	-2.34	8.09	6.45	0.58903
32	presto/tpcds:q33	6059725.71	424133.39	5932856.21	448171.01	-2.09	7.00	7.55	0.62543
75	presto/tpcds:q76	2986386.06	343339.73	2925560.57	441487.15	-2.04	11.50	15.09	0.79534
51	presto/tpcds:q52	3337509.40	171504.72	3275826.26	126591.34	-1.85	5.14	3.86	0.49464
54	presto/tpcds:q55	3287603.51	111268.03	3233906.40	314144.43	-1.63	3.38	9.71	0.70137
3	presto/tpcds:q04	40105477.13	319151.84	39492793.74	1030740.21	-1.53	0.80	2.61	0.19444
28	presto/tpcds:q29	6295795.32	242156.84	6202437.78	284903.08	-1.48	3.85	4.59	0.55446
67	presto/tpcds:q68	8155339.81	409152.78	8045585.87	265562.62	-1.35	5.02	3.30	0.59363

	query	baseline unpart mean	baseline unpart std.dev	adaptive PA unpart mean	adaptive PA unpart std.dev	% change	baseline unpart std.dev %	adaptive PA unpart std.dev %	p-value
87	presto/tpcds:q88	1491653.65	35322.02	1472742.74	36130.55	-1.27	2.37	2.45	0.38084
16	presto/tpcds:q17	7705477.08	252403.64	7628990.21	353378.01	-0.99	3.28	4.63	0.67531
8	presto/tpcds:q09	1160886.32	87954.46	1149960.80	93348.51	-0.94	7.58	8.12	0.83890
80	presto/tpcds:q81	6727984.80	440386.24	6665866.79	447769.33	-0.92	6.55	6.72	0.81347
21	presto/tpcds:q22	865902.08	7898.73	858012.32	4151.29	-0.91	0.91	0.48	0.05556
63	presto/tpcds:q64	78074932.97	1050784.12	77437553.62	2586594.72	-0.82	1.35	3.34	0.58832
62	presto/tpcds:q63	3508971.33	183667.28	3484084.85	119258.12	-0.71	5.23	3.42	0.78640
30	presto/tpcds:q31	5161421.93	124550.41	5125824.83	164644.16	-0.69	2.41	3.21	0.68170
47	presto/tpcds:q48	8030637.68	158832.83	7975318.85	186548.60	-0.69	1.98	2.34	0.59237
1	presto/tpcds:q02	3661839.65	48305.43	3636834.90	83930.81	-0.68	1.32	2.31	0.54126
77	presto/tpcds:q78	106744871.48	102586.41	106075793.59	25659.67	-0.63	0.10	0.02	0.00000
70	presto/tpcds:q71	3467946.47	410679.05	3446228.29	262978.67	-0.63	11.84	7.63	0.91529
9	presto/tpcds:q10	968042.10	42722.84	962139.68	31956.91	-0.61	4.41	3.32	0.79191
79	presto/tpcds:q80	45382995.46	199777.20	45115194.91	248737.21	-0.59	0.44	0.55	0.06682
42	presto/tpcds:q43	2530876.45	63776.99	2516113.86	48766.04	-0.58	2.52	1.94	0.66202
23	presto/tpcds:q24	22995050.89	357148.80	22863903.47	205539.64	-0.57	1.55	0.90	0.45369
43	presto/tpcds:q44	471168.52	5030.16	468596.65	540.33	-0.55	1.07	0.12	0.24143
98	presto/tpcds:q99	2264579.16	63457.51	2252449.29	102414.23	-0.54	2.80	4.55	0.81020
68	presto/tpcds:q69	1201779.68	191767.95	1195425.01	162728.88	-0.53	15.96	13.61	0.95187

	query	baseline unpart mean	baseline unpart std.dev	adaptive PA unpart mean	adaptive PA unpart std.dev	% change	baseline unpart std.dev %	adaptive PA unpart std.dev %	p-value
55	presto/tpcds:q56	5000829.73	535805.79	4974849.99	403343.23	-0.52	10.71	8.11	0.92628
15	presto/tpcds:q16	21063586.26	308948.72	20956314.19	190869.10	-0.51	1.47	0.91	0.48592
25	presto/tpcds:q26	3603202.46	117756.14	3585834.96	273301.06	-0.48	3.27	7.62	0.88917
52	presto/tpcds:q53	3579735.45	141407.33	3569147.50	242449.78	-0.30	3.95	6.79	0.92820
85	presto/tpcds:q86	2741453.06	84503.13	2734247.38	84909.23	-0.26	3.08	3.11	0.88579
61	presto/tpcds:q62	2417902.58	92779.55	2412045.95	156044.44	-0.24	3.84	6.47	0.93857
12	presto/tpcds:q13	15665015.57	586994.86	15634240.42	401307.80	-0.20	3.75	2.57	0.91767
27	presto/tpcds:q28	412474.49	6440.03	411879.14	3886.74	-0.14	1.56	0.94	0.85016
40	presto/tpcds:q41	24.51	0.02	24.48	0.08	-0.14	0.10	0.32	0.33415
94	presto/tpcds:q95	77404604.25	103543.92	77318101.31	202461.82	-0.11	0.13	0.26	0.37340
10	presto/tpcds:q11	24359211.21	640991.31	24350583.30	269789.82	-0.04	2.63	1.11	0.97635
71	presto/tpcds:q72	13155024.71	60961.86	13159151.35	57741.68	0.03	0.46	0.44	0.90656
66	presto/tpcds:q67	85214527.80	76685.83	85297594.94	259255.73	0.10	0.09	0.30	0.46904
46	presto/tpcds:q47	15143446.44	80526.65	15176210.28	64998.45	0.22	0.53	0.43	0.45598
95	presto/tpcds:q96	955249.82	52554.24	957561.65	141736.18	0.24	5.50	14.80	0.97085
34	presto/tpcds:q35	3334284.84	109659.49	3343862.95	222419.48	0.29	3.29	6.65	0.92649
37	presto/tpcds:q38	10112730.87	227832.62	10146106.53	198351.23	0.33	2.25	1.95	0.79217
13	presto/tpcds:q14	7721283.94	318449.20	7748570.74	402907.60	0.35	4.12	5.20	0.89903
56	presto/tpcds:q57	8650064.03	166051.89	8691595.99	192635.87	0.48	1.92	2.22	0.69756

	query	baseline unpart mean	baseline unpart std.dev	adaptive PA unpart mean	adaptive PA unpart std.dev	% change	baseline unpart std.dev %	adaptive PA unpart std.dev %	p-value
73	presto/tpcds:q74	15194320.72	801578.33	15268927.61	827874.83	0.49	5.28	5.42	0.87715
4	presto/tpcds:q05	12892645.13	503447.47	12958460.63	247587.55	0.51	3.90	1.91	0.77971
92	presto/tpcds:q93	22021398.63	163287.10	22151666.71	59840.02	0.59	0.74	0.27	0.09641
97	presto/tpcds:q98	3901368.87	94448.25	3925538.68	59832.54	0.62	2.42	1.52	0.60800
58	presto/tpcds:q59	12518235.89	332993.24	12604378.05	320844.31	0.69	2.66	2.55	0.65792
24	presto/tpcds:q25	7416164.04	453552.87	7469086.52	620234.11	0.71	6.12	8.30	0.86939
60	presto/tpcds:q61	8847798.93	375641.64	8920792.04	377256.32	0.82	4.25	4.23	0.74393
18	presto/tpcds:q19	4523504.14	400567.01	4569378.21	302229.50	1.01	8.86	6.61	0.82732
84	presto/tpcds:q85	15526028.74	427914.67	15691584.78	561374.74	1.07	2.76	3.58	0.57832
20	presto/tpcds:q21	654111.77	13337.04	662419.32	8673.76	1.27	2.04	1.31	0.22976
39	presto/tpcds:q40	11369783.98	153155.13	11530557.38	186537.02	1.41	1.35	1.62	0.13380
0	presto/tpcds:q01	12520544.07	429554.68	12702373.83	688613.88	1.45	3.43	5.42	0.59520
48	presto/tpcds:q49	6128931.25	240828.90	6226019.70	524782.56	1.58	3.93	8.43	0.68912
19	presto/tpcds:q20	1215141.79	279317.23	1235405.23	146888.12	1.67	22.99	11.89	0.87816
44	presto/tpcds:q45	2454321.48	119267.91	2505761.44	98173.53	2.10	4.86	3.92	0.43369
17	presto/tpcds:q18	5425047.91	117176.74	5538991.43	397309.53	2.10	2.16	7.17	0.51572
90	presto/tpcds:q91	174952.61	13013.65	178765.54	22722.11	2.18	7.44	12.71	0.72874
59	presto/tpcds:q60	6868064.69	262879.41	7029132.77	157049.35	2.35	3.83	2.23	0.22662
65	presto/tpcds:q66	3981266.52	270799.26	4074994.96	248788.29	2.35	6.80	6.11	0.54639


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