

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 part	812	1,111	108,909	128,022	2,645	2,017	2,145,563,371	1,254,241,988	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	adaptive PA part	780	1,092	101,696	126,127	2,652	2,023	2,135,735,086	1,231,809,112	-3.92	-1.72	-6.62	-1.48	0.23	0.32	-0.46	-1.79

FAILED QUERIES

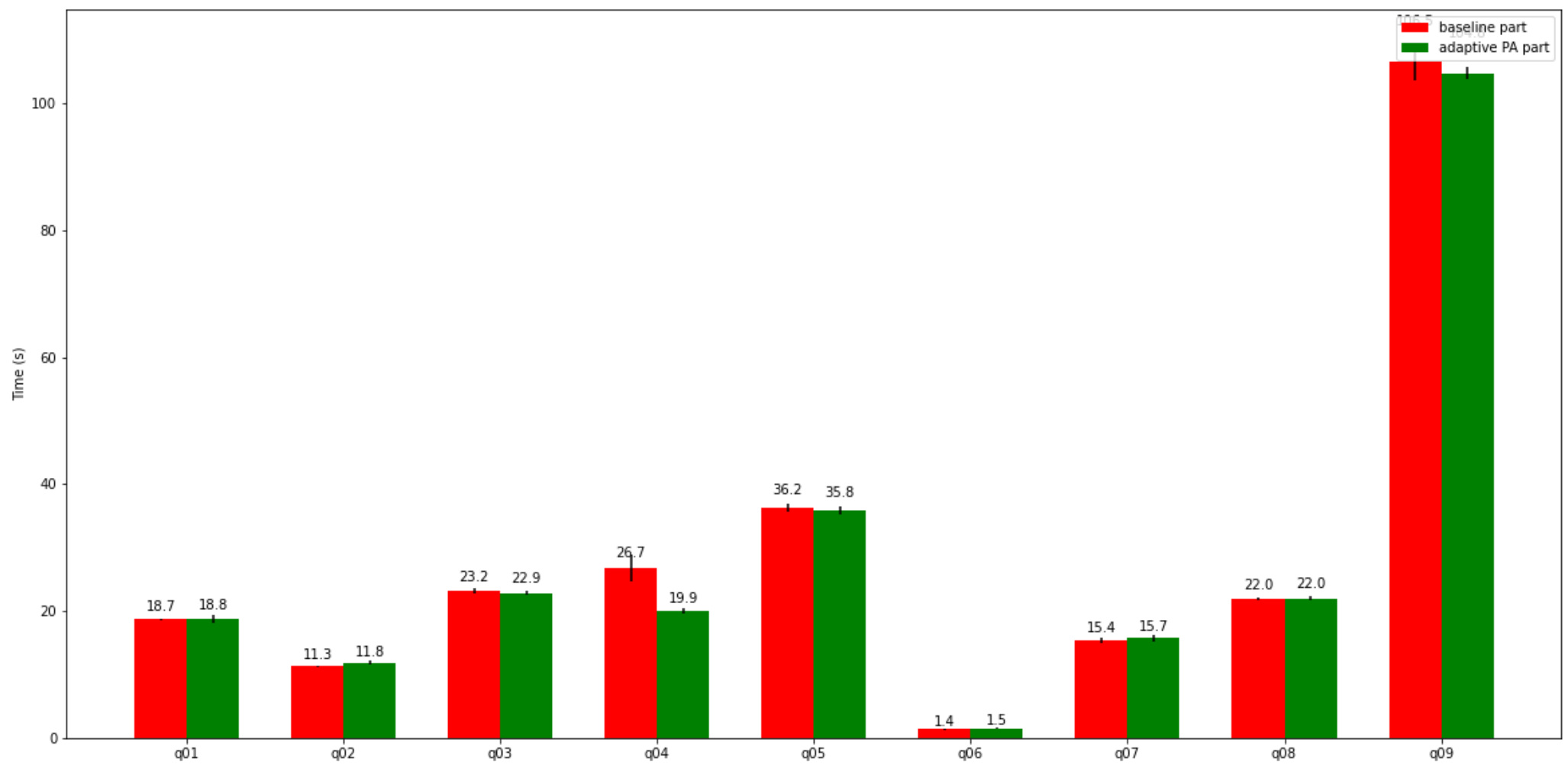
baseline part

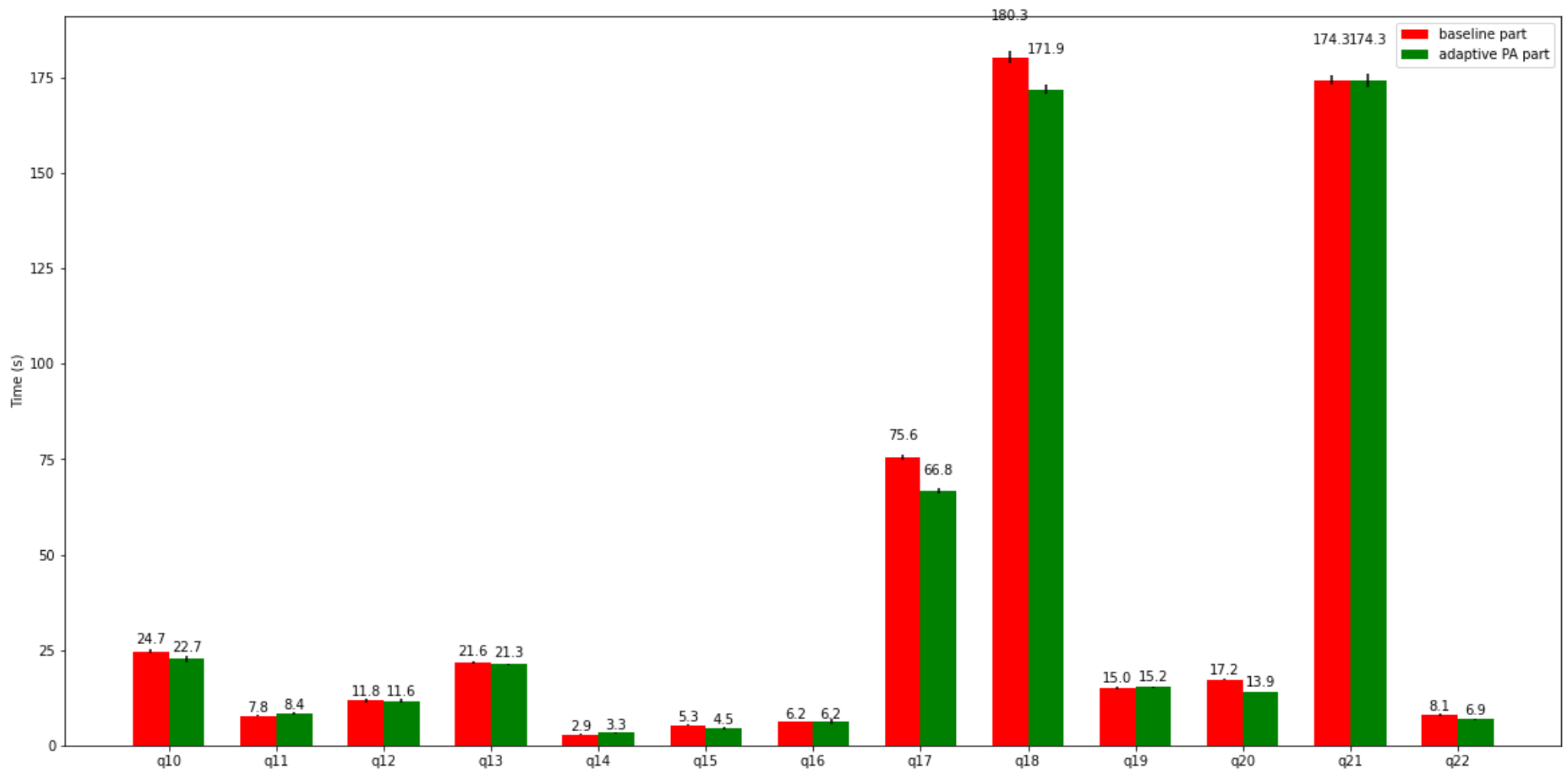
benchmark	query	mean_duration	std_dev
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adaptive PA part

benchmark	query	mean_duration	std_dev
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TPC-H Comparison (DURATION)

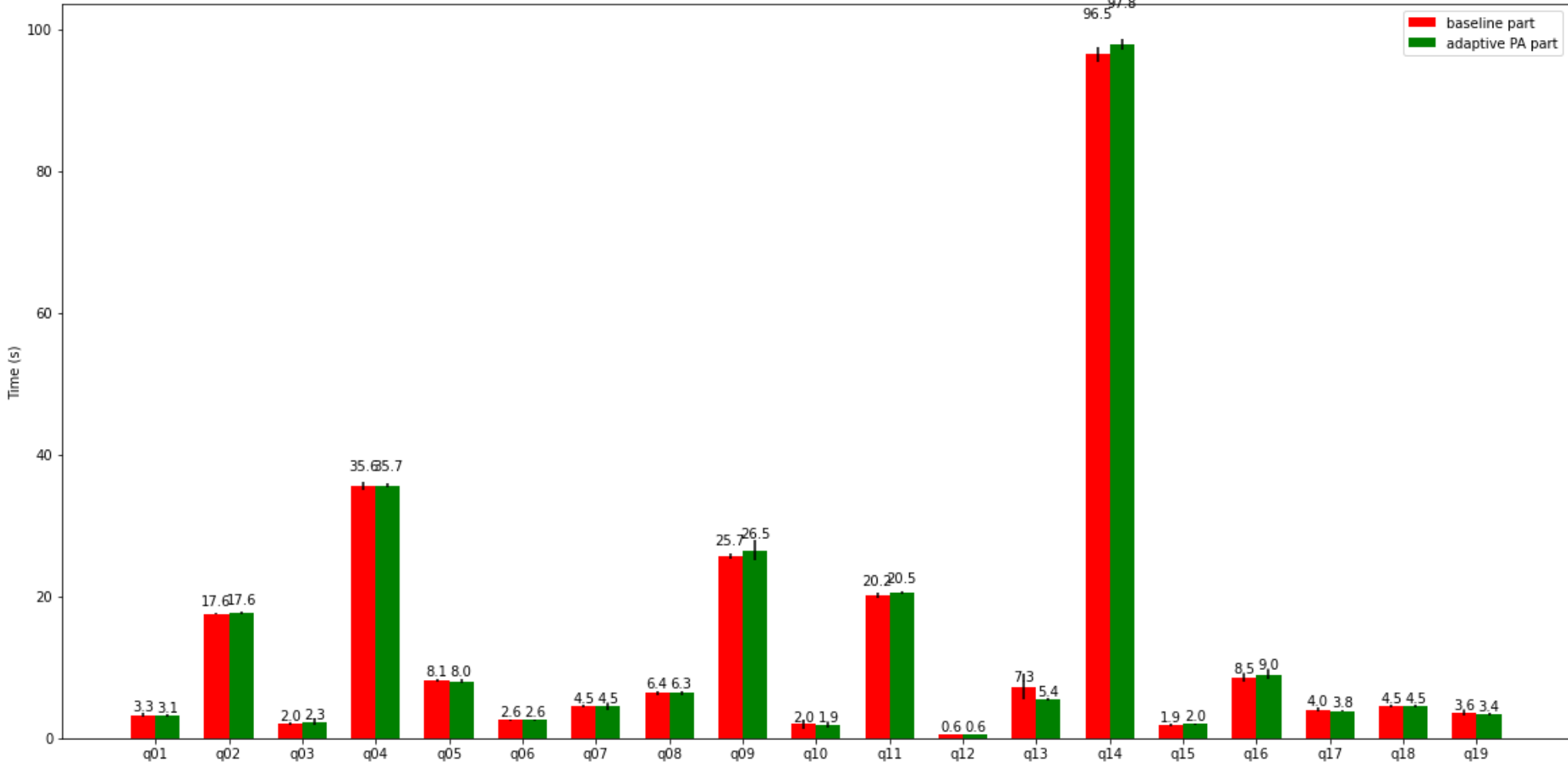


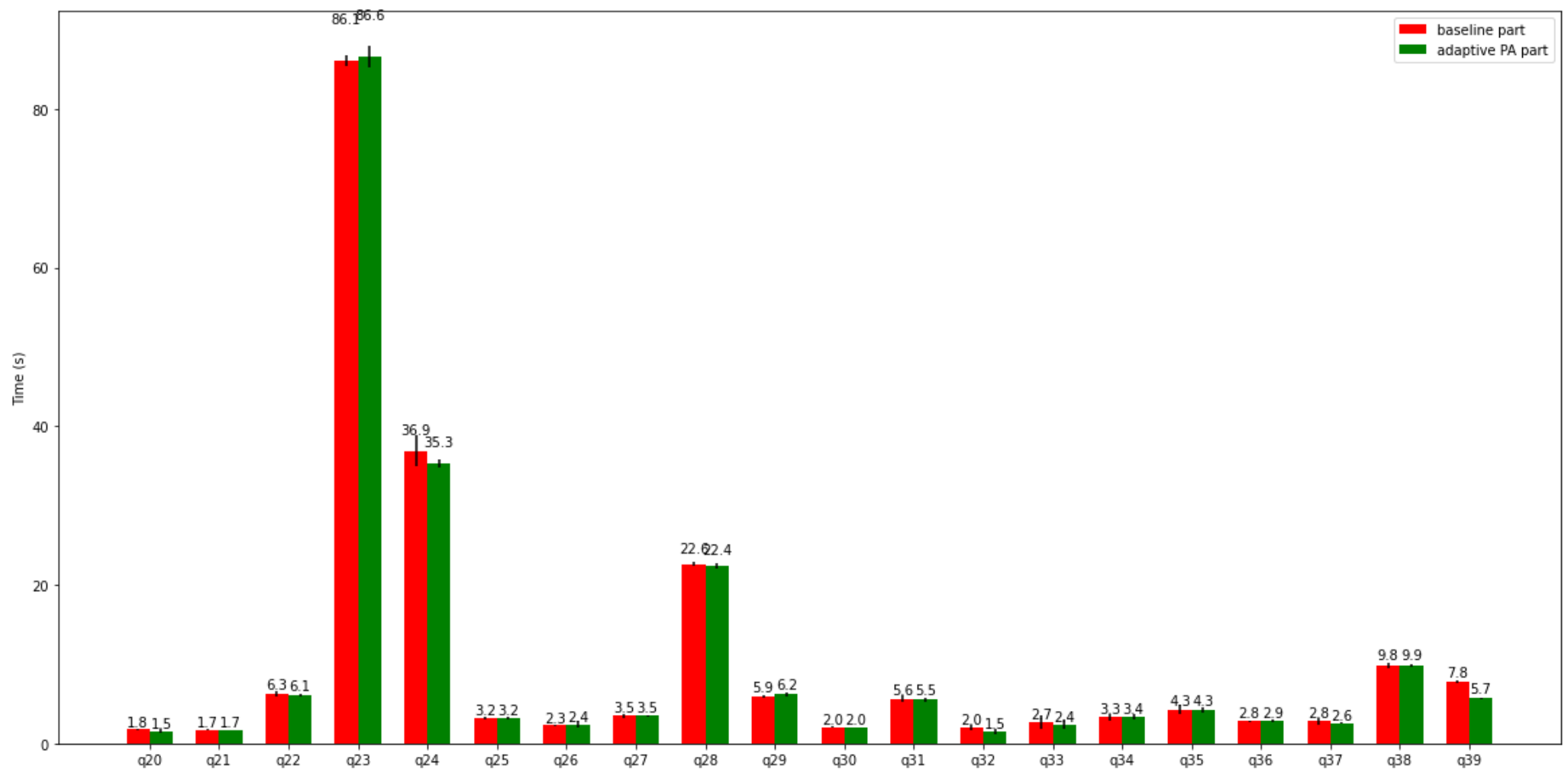


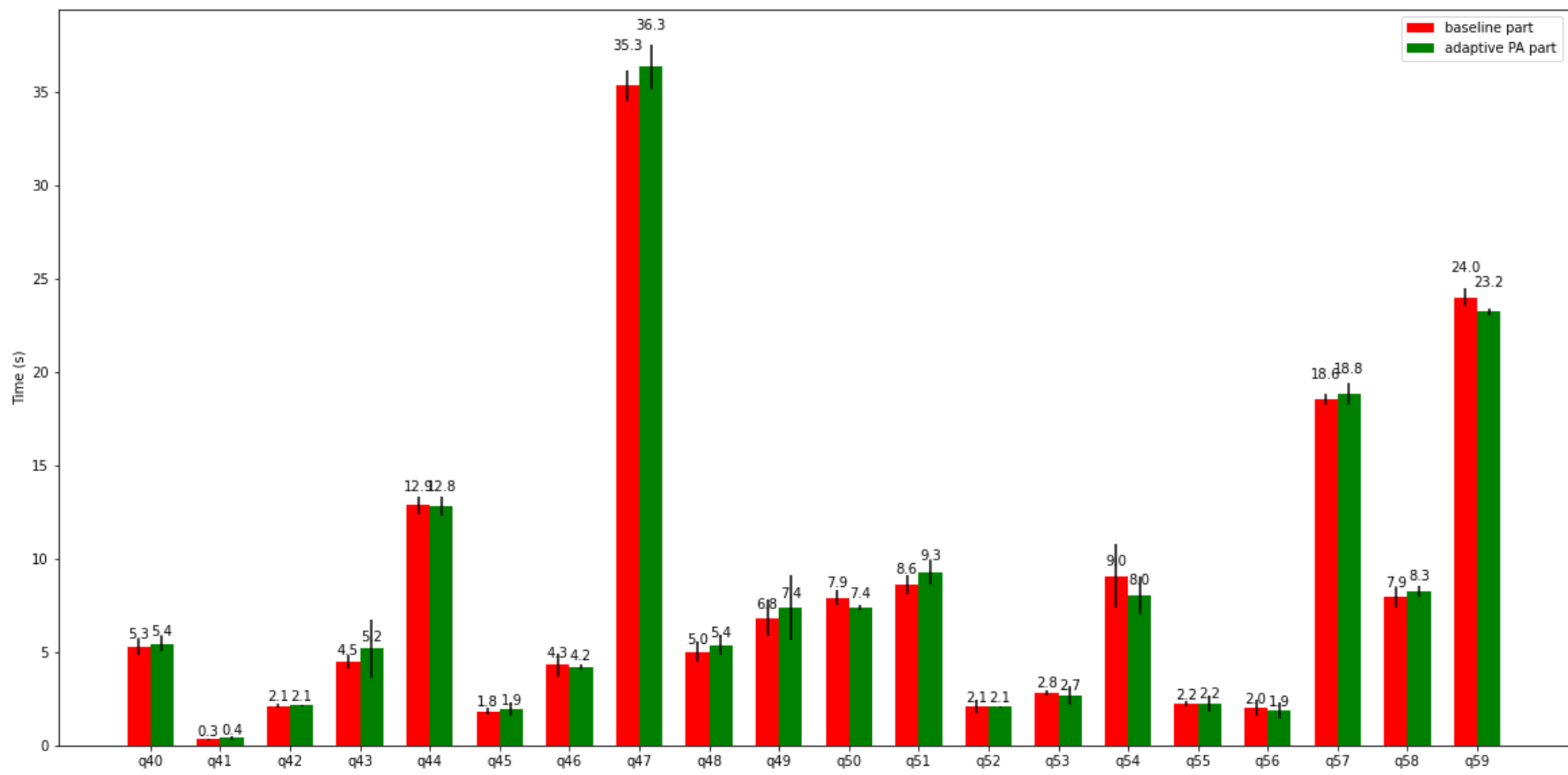
	query	baseline part mean	baseline part std.dev	adaptive PA part mean	adaptive PA part std.dev	% change	baseline part std.dev %	adaptive PA part std.dev %	p-value
3	presto/tpch: q04	26.74	2.07	19.94	0.40	-25.41	7.76	2.02	0.00001
19	presto/tpch: q20	17.22	0.16	13.92	0.08	-19.17	0.91	0.56	0.00000
21	presto/tpch: q22	8.07	0.44	6.87	0.22	-14.87	5.48	3.27	0.00014
14	presto/tpch: q15	5.29	0.14	4.52	0.48	-14.50	2.66	10.55	0.00362
16	presto/tpch: q17	75.64	0.71	66.79	0.73	-11.70	0.93	1.09	0.00000
9	presto/tpch: q10	24.69	0.48	22.68	0.82	-8.17	1.95	3.62	0.00041

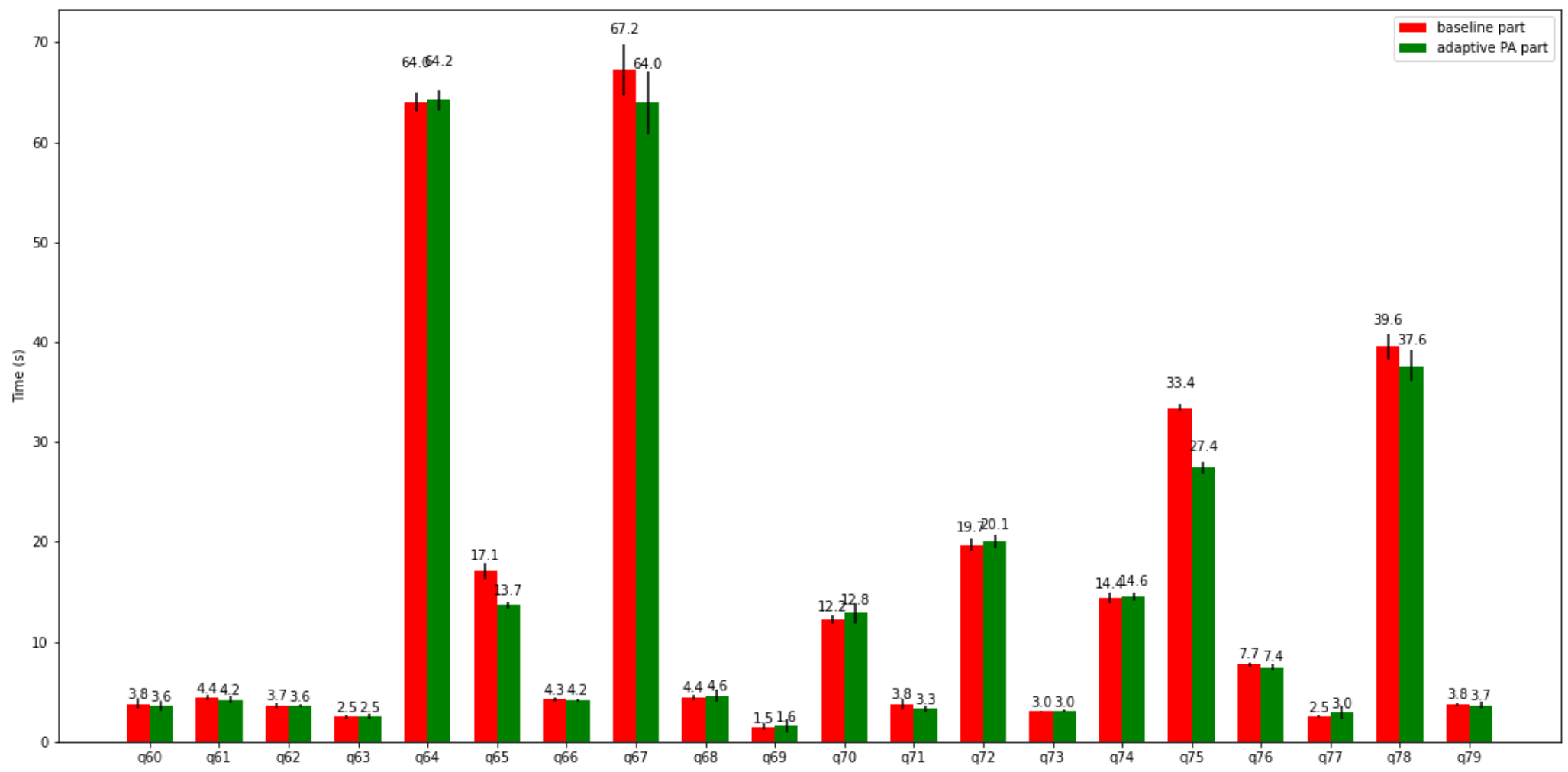
	query	baseline part mean	baseline part std.dev	adaptive PA part mean	adaptive PA part std.dev	% change	baseline part std.dev %	adaptive PA part std.dev %	p-value
17	presto/tpch: q18	180.32	1.62	171.91	1.15	-4.66	0.90	0.67	0.00000
12	presto/tpch: q13	21.64	0.32	21.29	0.24	-1.60	1.48	1.13	0.05973
8	presto/tpch: q09	106.53	2.83	104.83	1.05	-1.59	2.65	1.00	0.19769
11	presto/tpch: q12	11.77	0.50	11.59	0.51	-1.55	4.27	4.37	0.54400
2	presto/tpch: q03	23.17	0.35	22.86	0.32	-1.33	1.53	1.41	0.14752
4	presto/tpch: q05	36.24	0.65	35.84	0.68	-1.10	1.80	1.90	0.32406
15	presto/tpch: q16	6.17	0.05	6.15	0.65	-0.19	0.74	10.62	0.96654
20	presto/tpch: q21	174.33	1.16	174.30	1.70	-0.02	0.67	0.98	0.97028
7	presto/tpch: q08	21.95	0.19	22.02	0.37	0.32	0.87	1.66	0.68432
0	presto/tpch: q01	18.71	0.13	18.81	0.62	0.49	0.68	3.28	0.72631
18	presto/tpch: q19	14.97	0.27	15.23	0.20	1.74	1.79	1.32	0.08591
6	presto/tpch: q07	15.36	0.36	15.71	0.62	2.27	2.37	3.92	0.26076
1	presto/tpch: q02	11.33	0.09	11.85	0.36	4.56	0.81	3.04	0.00674
10	presto/tpch: q11	7.79	0.28	8.38	0.22	7.65	3.61	2.58	0.00210
5	presto/tpch: q06	1.40	0.07	1.54	0.16	10.24	5.18	10.35	0.07324
13	presto/tpch: q14	2.89	0.09	3.35	0.27	15.88	3.11	8.11	0.00282
count	22								
mean	-3								
std	10								
min	-25								
25%	-7								
50%	-1								
75%	1								
max	16								
Name: % change, dtype: float64									

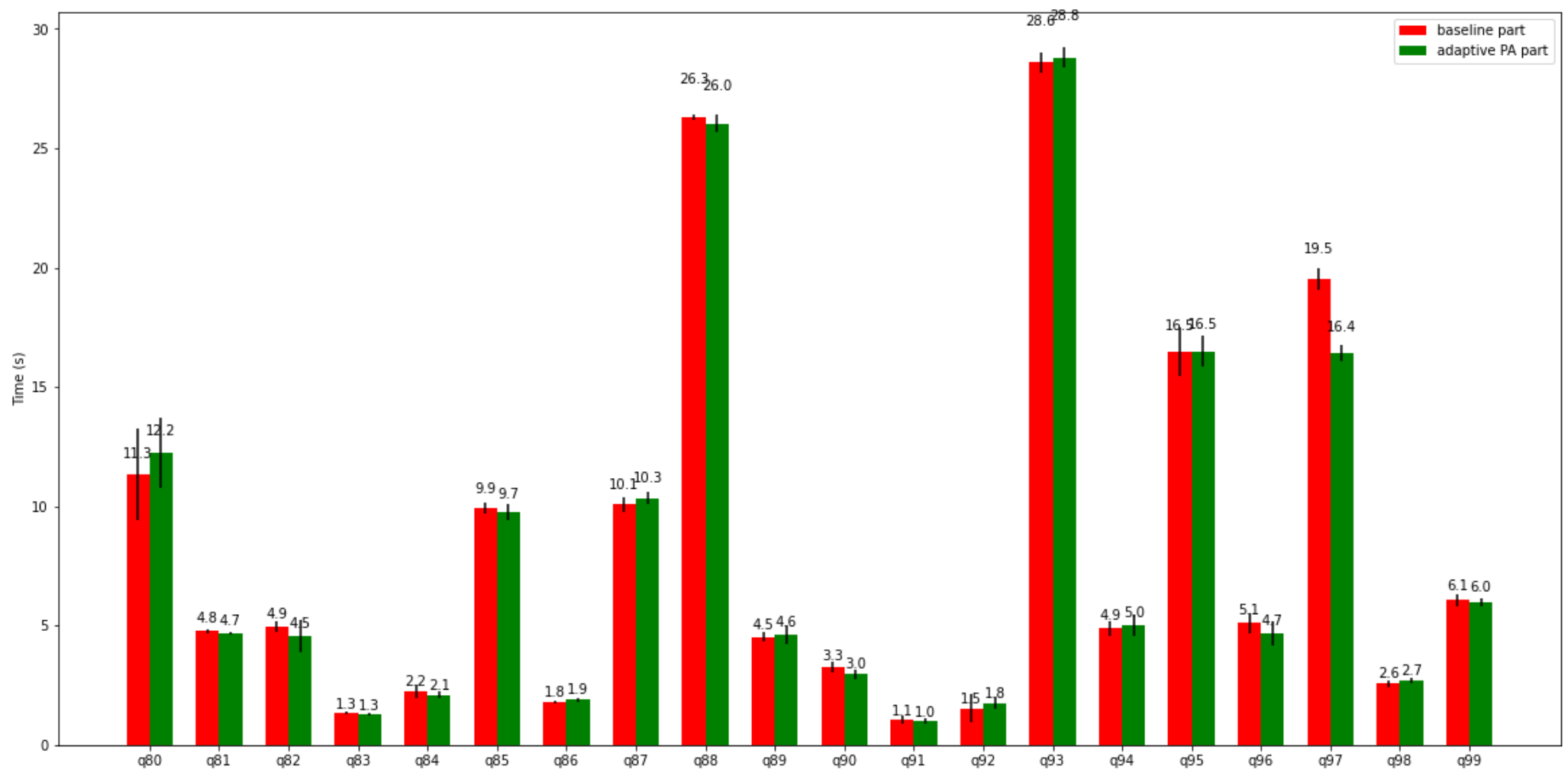
TPC-DS Comparison (DURATION)

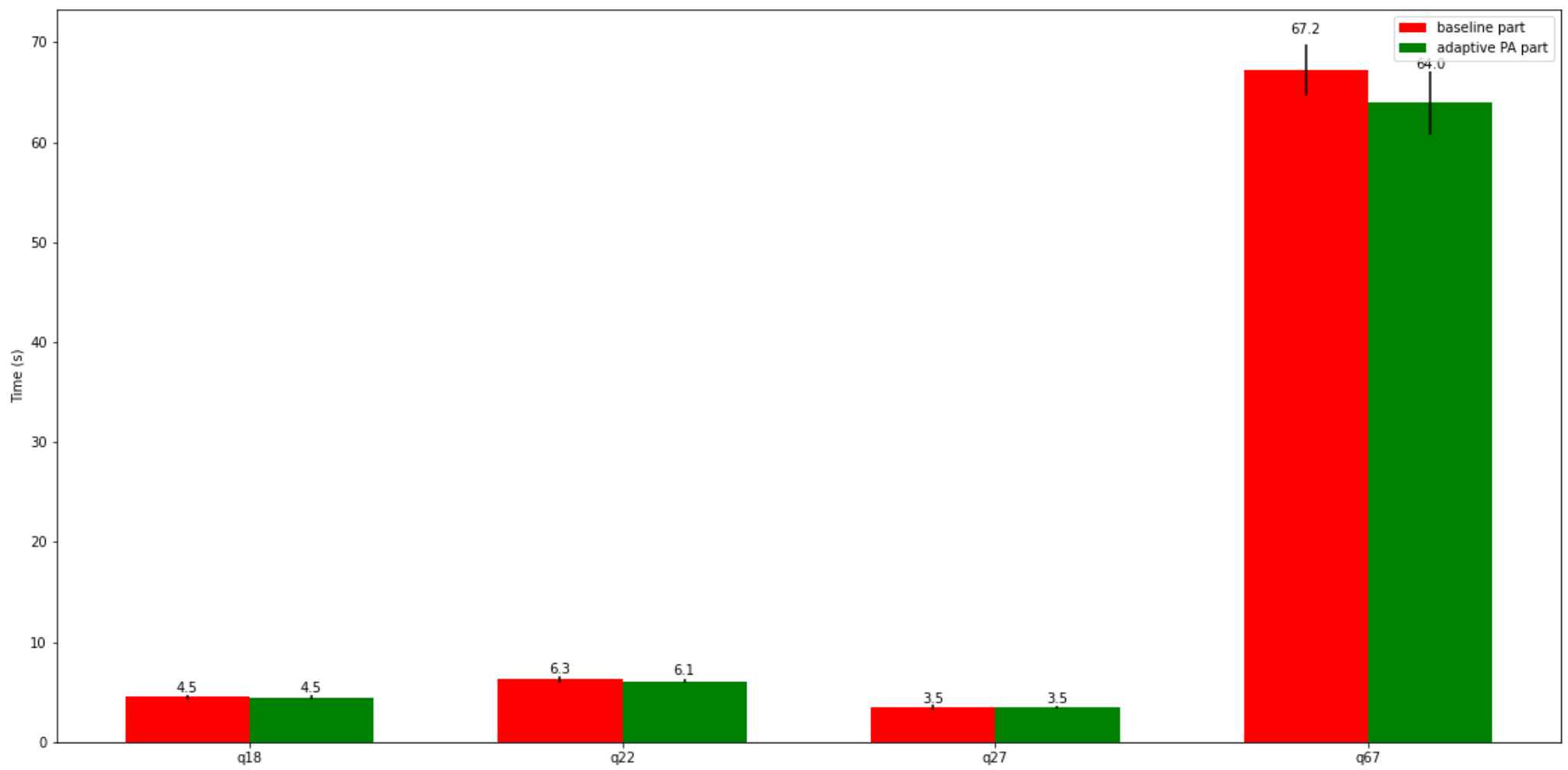












	query	baseline part mean	baseline part std.dev	adaptive PA part mean	adaptive PA part std.dev	% change	baseline part std.dev %	adaptive PA part std.dev %	p-value
38	presto/tpcds: q39	7.75	0.15	5.70	0.09	-26.43	1.95	1.52	0.00000
12	presto/tpcds: q13	7.29	1.72	5.41	0.20	-25.79	23.54	3.62	0.02366
31	presto/tpcds: q32	1.99	0.29	1.51	0.31	-23.97	14.64	20.47	0.02057
64	presto/tpcds: q65	17.07	0.80	13.67	0.34	-19.93	4.68	2.50	0.00000
74	presto/tpcds: q75	33.45	0.33	27.41	0.63	-18.04	0.98	2.29	0.00000
96	presto/tpcds: q97	19.53	0.47	16.40	0.34	-16.03	2.39	2.07	0.00000

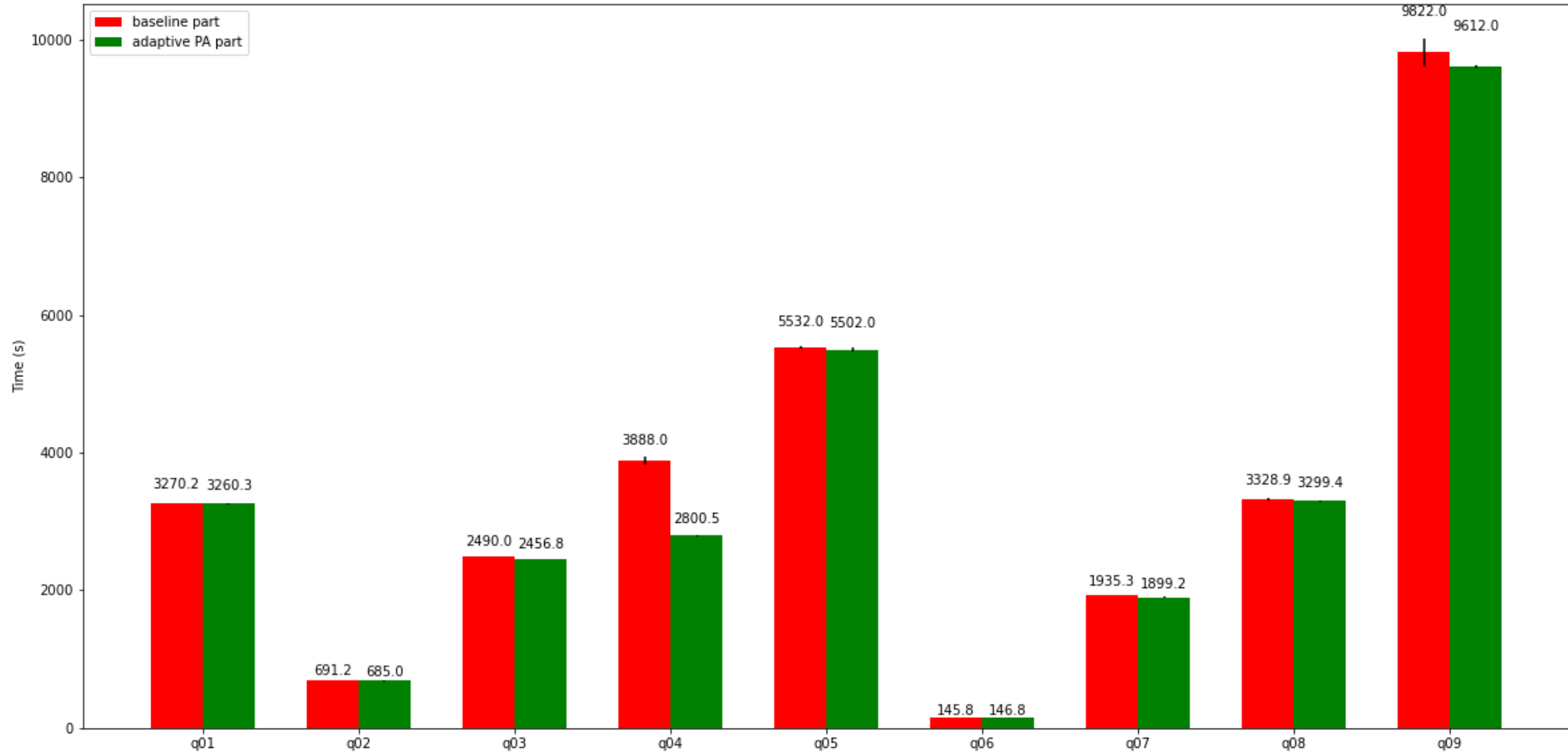
	query	baseline part mean	baseline part std.dev	adaptive PA part mean	adaptive PA part std.dev	% change	baseline part std.dev %	adaptive PA part std.dev %	p-value
19	presto/tpcds: q20	1.78	0.14	1.54	0.21	-13.07	8.03	13.50	0.04792
70	presto/tpcds: q71	3.77	0.56	3.29	0.36	-12.87	14.76	10.98	0.10336
53	presto/tpcds: q54	9.05	1.71	8.03	1.01	-11.23	18.85	12.58	0.23788
32	presto/tpcds: q33	2.73	0.87	2.43	0.62	-11.07	31.95	25.47	0.50432
89	presto/tpcds: q90	3.26	0.21	2.95	0.19	-9.49	6.56	6.45	0.02445
95	presto/tpcds: q96	5.10	0.42	4.67	0.52	-8.52	8.30	11.16	0.14370
36	presto/tpcds: q37	2.83	0.44	2.60	0.12	-8.31	15.59	4.79	0.23726
81	presto/tpcds: q82	4.95	0.23	4.55	0.68	-8.02	4.69	14.91	0.20527
55	presto/tpcds: q56	2.00	0.44	1.86	0.45	-6.75	22.18	24.17	0.61254
59	presto/tpcds: q60	3.81	0.51	3.55	0.48	-6.73	13.29	13.53	0.38930
49	presto/tpcds: q50	7.90	0.39	7.37	0.15	-6.69	4.96	2.02	0.01149
83	presto/tpcds: q84	2.24	0.29	2.10	0.16	-6.41	12.72	7.57	0.30640
90	presto/tpcds: q91	1.08	0.17	1.01	0.10	-5.67	15.37	9.84	0.45682
52	presto/tpcds: q53	2.83	0.13	2.67	0.52	-5.46	4.73	19.42	0.49697
18	presto/tpcds: q19	3.61	0.38	3.41	0.25	-5.42	10.66	7.22	0.31894
60	presto/tpcds: q61	4.38	0.27	4.17	0.33	-4.92	6.09	8.02	0.24497
77	presto/tpcds: q78	39.56	1.28	37.63	1.60	-4.89	3.24	4.25	0.04322
0	presto/tpcds: q01	3.28	0.23	3.12	0.21	-4.87	7.12	6.64	0.23836
66	presto/tpcds: q67	67.19	2.59	63.96	3.18	-4.81	3.85	4.97	0.08215

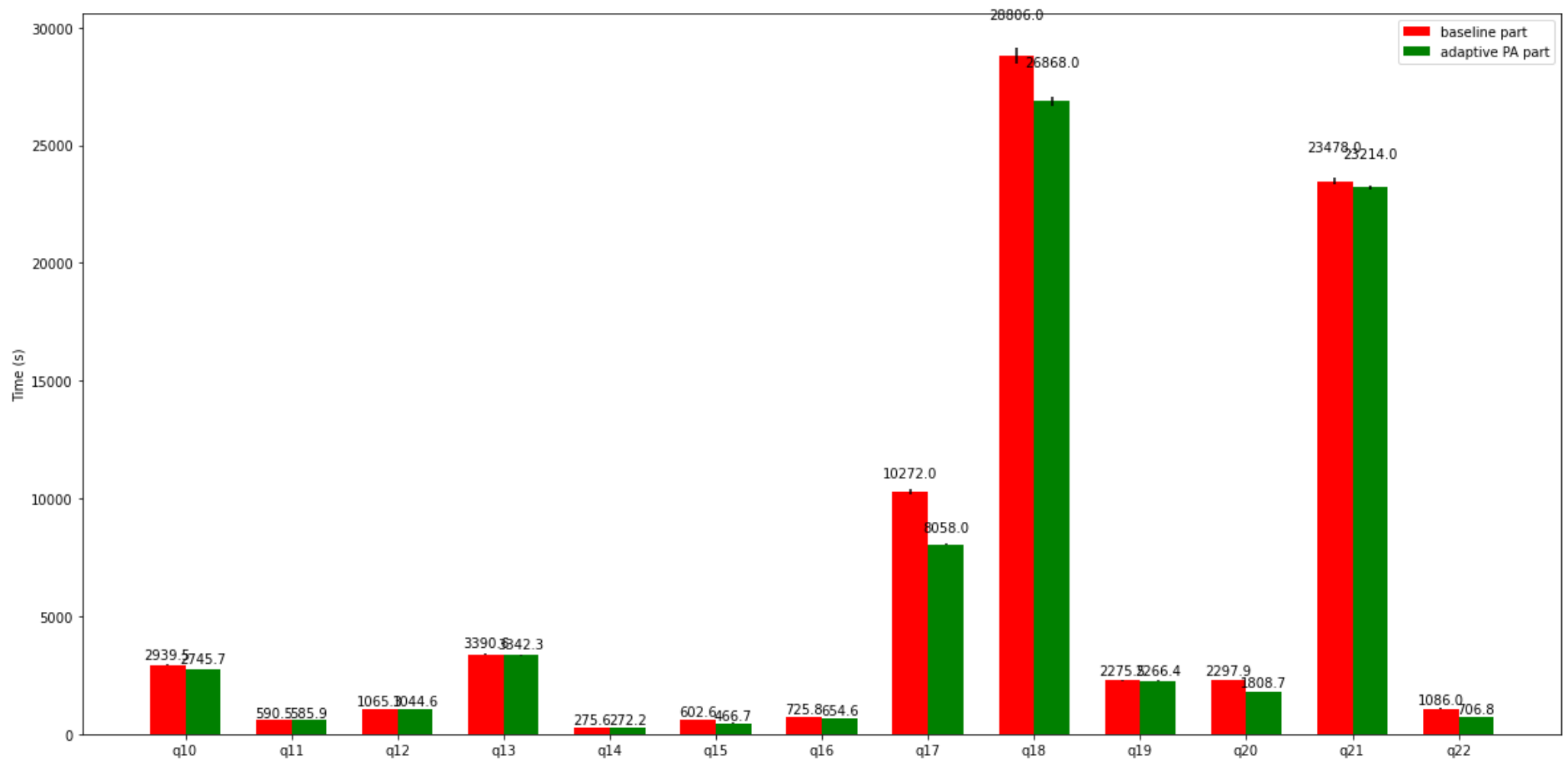
	query	baseline part mean	baseline part std.dev	adaptive PA part mean	adaptive PA part std.dev	% change	baseline part std.dev %	adaptive PA part std.dev %	p-value
16	presto/tpcds: q17	3.99	0.26	3.82	0.09	-4.32	6.41	2.35	0.15009
23	presto/tpcds: q24	36.88	1.98	35.30	0.52	-4.26	5.37	1.49	0.08943
75	presto/tpcds: q76	7.73	0.26	7.43	0.37	-3.88	3.36	4.96	0.13437
58	presto/tpcds: q59	23.98	0.48	23.21	0.18	-3.22	2.02	0.77	0.00430
61	presto/tpcds: q62	3.67	0.27	3.56	0.13	-2.99	7.32	3.66	0.38880
45	presto/tpcds: q46	4.31	0.61	4.18	0.14	-2.92	14.24	3.25	0.63420
9	presto/tpcds: q10	1.98	0.69	1.93	0.35	-2.79	34.58	18.31	0.86396
82	presto/tpcds: q83	1.34	0.06	1.30	0.05	-2.74	4.38	3.50	0.25466
78	presto/tpcds: q79	3.77	0.13	3.68	0.33	-2.57	3.39	8.91	0.51375
21	presto/tpcds: q22	6.26	0.31	6.10	0.18	-2.57	5.00	2.91	0.29940
24	presto/tpcds: q25	3.25	0.15	3.17	0.12	-2.53	4.52	3.83	0.31562
20	presto/tpcds: q21	1.75	0.02	1.70	0.02	-2.48	1.36	0.89	0.00368
80	presto/tpcds: q81	4.77	0.08	4.67	0.08	-2.11	1.58	1.64	0.04520
84	presto/tpcds: q85	9.93	0.25	9.74	0.34	-1.97	2.48	3.49	0.27876
30	presto/tpcds: q31	5.64	0.43	5.53	0.26	-1.92	7.62	4.70	0.60822
65	presto/tpcds: q66	4.26	0.18	4.18	0.14	-1.86	4.13	3.24	0.40314
29	presto/tpcds: q30	2.04	0.06	2.01	0.08	-1.53	2.88	3.75	0.44308
4	presto/tpcds: q05	8.13	0.17	8.01	0.33	-1.52	2.05	4.12	0.43110
98	presto/tpcds: q99	6.08	0.25	6.00	0.17	-1.40	4.13	2.88	0.50974

	query	baseline part mean	baseline part std.dev	adaptive PA part mean	adaptive PA part std.dev	% change	baseline part std.dev %	adaptive PA part std.dev %	p-value
87	presto/tpcds: q88	26.31	0.13	26.04	0.38	-1.02	0.49	1.45	0.12892
27	presto/tpcds: q28	22.63	0.20	22.44	0.33	-0.86	0.89	1.49	0.25081
7	presto/tpcds: q08	6.38	0.26	6.34	0.25	-0.60	4.10	3.95	0.80009
34	presto/tpcds: q35	4.28	0.63	4.26	0.31	-0.43	14.84	7.29	0.95056
17	presto/tpcds: q18	4.50	0.20	4.49	0.24	-0.32	4.47	5.34	0.91182
43	presto/tpcds: q44	12.85	0.45	12.82	0.53	-0.27	3.53	4.13	0.90587
26	presto/tpcds: q27	3.49	0.23	3.49	0.13	0.03	6.73	3.65	0.99167
94	presto/tpcds: q95	16.47	1.02	16.49	0.64	0.13	6.17	3.90	0.96490
41	presto/tpcds: q42	2.12	0.08	2.12	0.06	0.22	3.63	2.85	0.90929
1	presto/tpcds: q02	17.58	0.12	17.62	0.20	0.23	0.67	1.16	0.68908
72	presto/tpcds: q73	3.02	0.10	3.03	0.15	0.26	3.42	4.89	0.91748
3	presto/tpcds: q04	35.58	0.62	35.67	0.34	0.27	1.75	0.95	0.75067
5	presto/tpcds: q06	2.58	0.12	2.58	0.09	0.29	4.65	3.60	0.90604
37	presto/tpcds: q38	9.82	0.33	9.85	0.16	0.31	3.39	1.61	0.84252
63	presto/tpcds: q64	64.00	0.93	64.20	0.97	0.32	1.45	1.51	0.71908
51	presto/tpcds: q52	2.07	0.35	2.08	0.04	0.32	16.86	2.16	0.96387
6	presto/tpcds: q07	4.47	0.21	4.49	0.48	0.45	4.61	10.66	0.92692
22	presto/tpcds: q23	86.11	0.73	86.64	1.32	0.62	0.84	1.53	0.40628
92	presto/tpcds: q93	28.59	0.41	28.80	0.43	0.74	1.45	1.48	0.40697

	query	baseline part mean	baseline part std.dev	adaptive PA part mean	adaptive PA part std.dev	% change	baseline part std.dev %	adaptive PA part std.dev %	p-value
62	presto/tpcds:q63	2.49	0.24	2.51	0.26	0.82	9.61	10.25	0.88917
73	presto/tpcds:q74	14.41	0.54	14.56	0.40	1.06	3.74	2.72	0.58754
54	presto/tpcds:q55	2.20	0.14	2.23	0.43	1.10	6.29	19.51	0.89936
56	presto/tpcds:q57	18.55	0.28	18.79	0.58	1.30	1.51	3.08	0.37977
13	presto/tpcds:q14	96.45	1.03	97.82	0.79	1.42	1.07	0.80	0.02743
10	presto/tpcds:q11	20.21	0.36	20.54	0.23	1.64	1.78	1.12	0.08600
71	presto/tpcds:q72	19.69	0.64	20.06	0.65	1.87	3.27	3.26	0.34951
35	presto/tpcds:q36	2.82	0.06	2.88	0.14	2.23	2.25	4.78	0.33291
88	presto/tpcds:q89	4.52	0.20	4.63	0.38	2.48	4.42	8.27	0.53972
86	presto/tpcds:q87	10.09	0.31	10.35	0.25	2.55	3.03	2.44	0.14367
39	presto/tpcds:q40	5.30	0.43	5.44	0.42	2.59	8.09	7.73	0.58791
93	presto/tpcds:q94	4.87	0.29	5.01	0.43	2.81	5.92	8.53	0.52945
46	presto/tpcds:q47	35.32	0.85	36.33	1.18	2.88	2.41	3.24	0.11746
8	presto/tpcds:q09	25.74	0.40	26.50	1.42	2.92	1.56	5.36	0.24035
67	presto/tpcds:q68	4.45	0.30	4.59	0.59	3.14	6.65	12.76	0.61319
33	presto/tpcds:q34	3.31	0.45	3.42	0.31	3.38	13.75	9.15	0.63023
11	presto/tpcds:q12	0.56	0.03	0.58	0.04	3.47	5.21	6.67	0.34871
57	presto/tpcds:q58	7.93	0.55	8.26	0.29	4.15	6.92	3.57	0.22443
97	presto/tpcds:q98	2.57	0.15	2.70	0.11	5.05	5.88	4.16	0.12220

TPC-H Comparison (CPU)

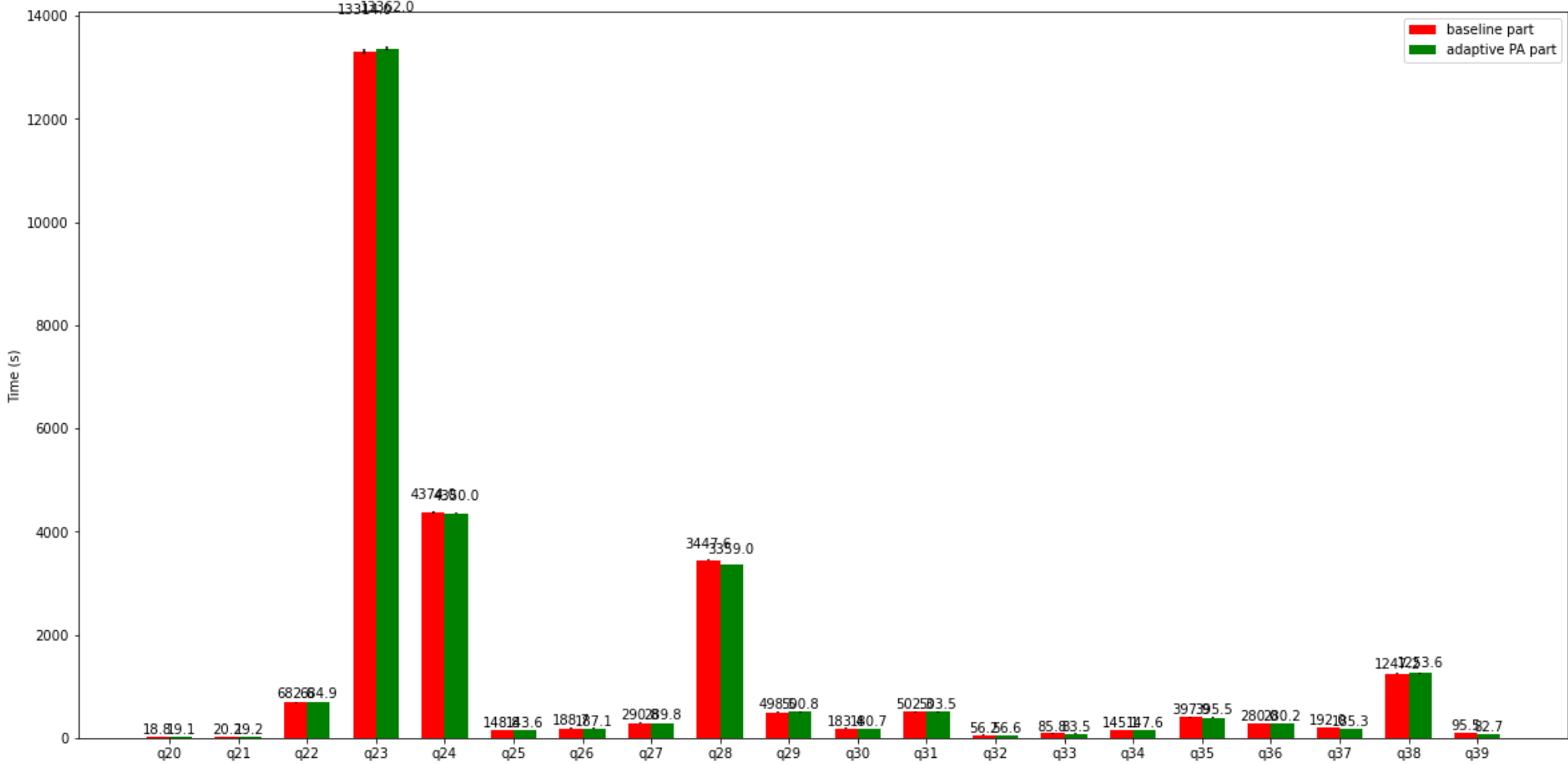


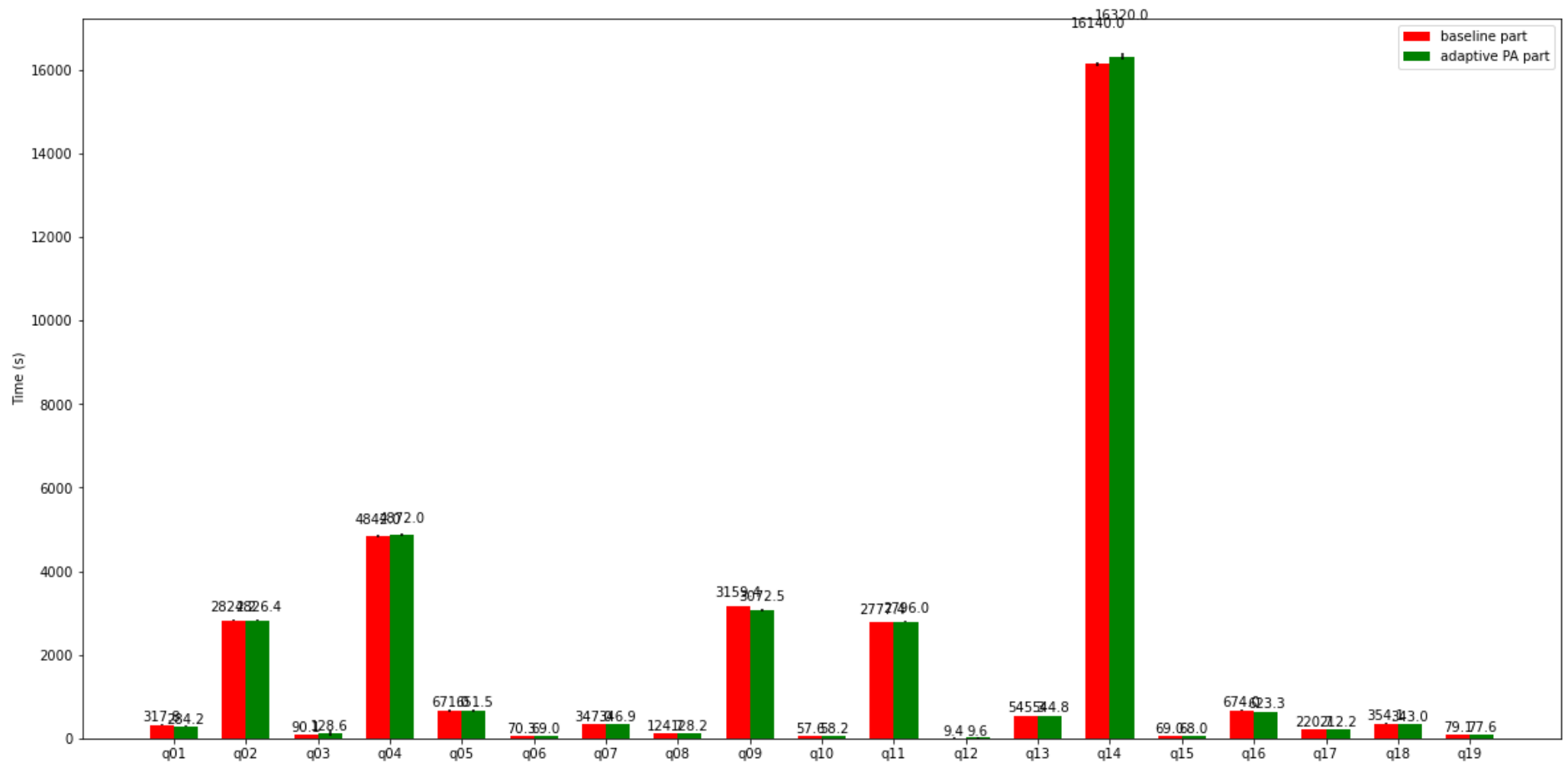


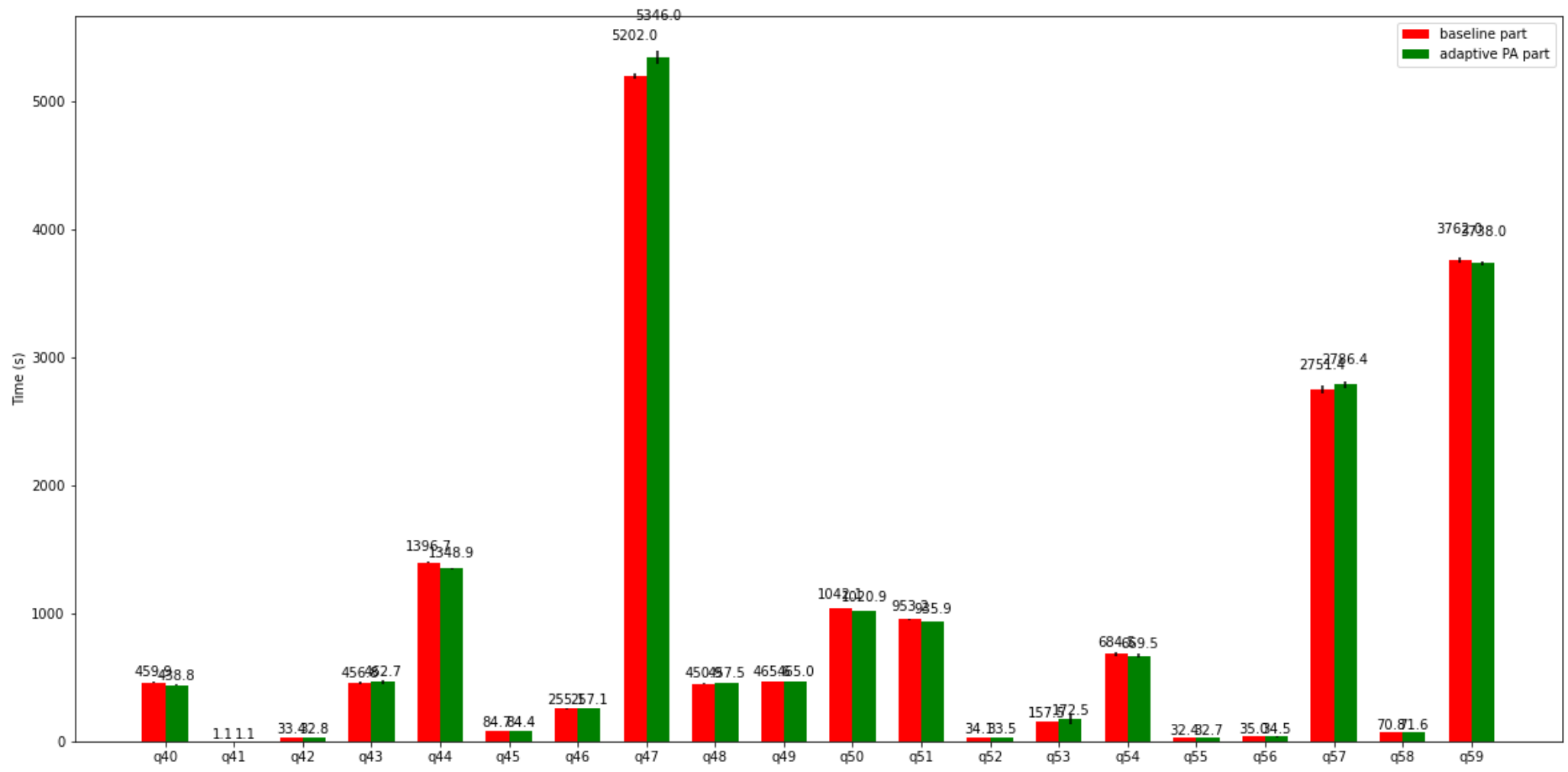
	query	baseline part mean	baseline part std.dev	adaptive PA part mean	adaptive PA part std.dev	% change	baseline part std.dev %	adaptive PA part std.dev %	p-value
21	presto/tpch: q22	1086.00	0.93	706.80	1.47	-34.92	0.09	0.21	0.00000
3	presto/tpch: q04	3888.00	55.77	2800.50	11.11	-27.97	1.43	0.40	0.00000
14	presto/tpch: q15	602.60	3.14	466.70	5.40	-22.55	0.52	1.16	0.00000
16	presto/tpch: q17	10272.00	119.76	8058.00	27.10	-21.55	1.17	0.34	0.00000
19	presto/tpch: q20	2297.90	2.06	1808.70	2.96	-21.29	0.09	0.16	0.00000
15	presto/tpch: q16	725.80	2.00	654.60	1.70	-9.81	0.28	0.26	0.00000

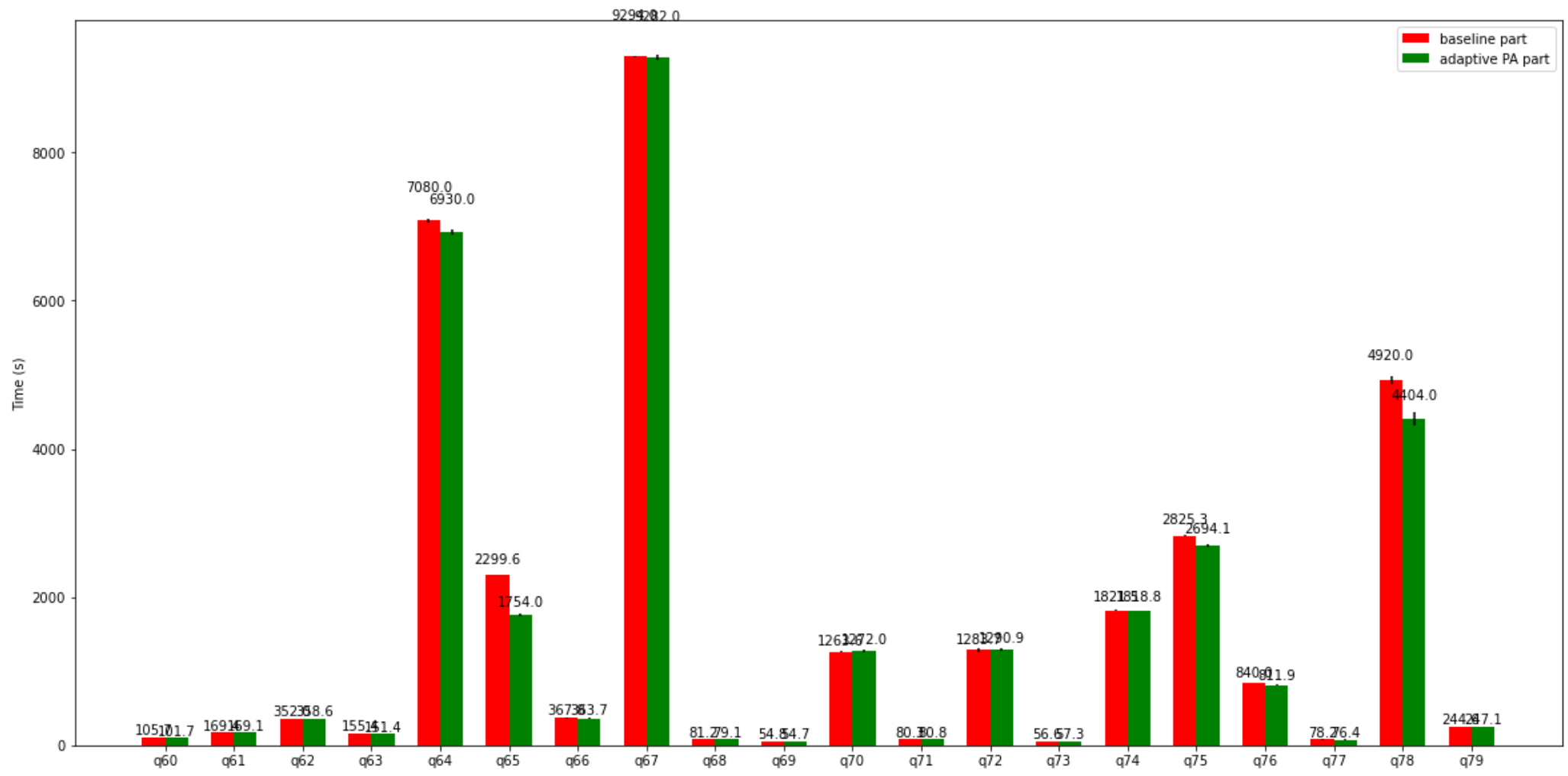
	query	baseline part mean	baseline part std.dev	adaptive PA part mean	adaptive PA part std.dev	% change	baseline part std.dev %	adaptive PA part std.dev %	p-value
17	presto/tpch: q18	28806.00	334.17	26868.00	216.80	-6.73	1.16	0.81	0.00000
9	presto/tpch: q10	2939.50	11.95	2745.70	10.11	-6.59	0.41	0.37	0.00000
8	presto/tpch: q09	9822.00	199.03	9612.00	22.77	-2.14	2.03	0.24	0.02800
11	presto/tpch: q12	1065.30	1.77	1044.60	1.65	-1.94	0.17	0.16	0.00000
6	presto/tpch: q07	1935.30	5.30	1899.20	8.71	-1.87	0.27	0.46	0.00001
12	presto/tpch: q13	3390.60	14.62	3342.30	20.37	-1.42	0.43	0.61	0.00082
2	presto/tpch: q03	2490.00	2.34	2456.80	3.30	-1.33	0.09	0.13	0.00000
13	presto/tpch: q14	275.60	1.40	272.20	1.81	-1.23	0.51	0.66	0.00453
20	presto/tpch: q21	23478.00	142.95	23214.00	92.25	-1.12	0.61	0.40	0.00348
1	presto/tpch: q02	691.20	2.74	685.00	4.94	-0.90	0.40	0.72	0.02278
7	presto/tpch: q08	3328.90	16.18	3299.40	5.51	-0.89	0.49	0.17	0.00175
10	presto/tpch: q11	590.50	3.86	585.90	1.93	-0.78	0.65	0.33	0.02592
4	presto/tpch: q05	5532.00	18.59	5502.00	27.10	-0.54	0.34	0.49	0.04933
18	presto/tpch: q19	2275.50	13.59	2266.40	9.22	-0.40	0.60	0.41	0.20447
0	presto/tpch: q01	3270.20	5.92	3260.30	2.77	-0.30	0.18	0.09	0.00406
5	presto/tpch: q06	145.80	0.54	146.80	0.31	0.69	0.37	0.21	0.00272
count	22								
mean	-8								
std	11								
min	-35								
25%	-9								
50%	-2								
75%	-1								
max	1								
Name: % change, dtype: float64									

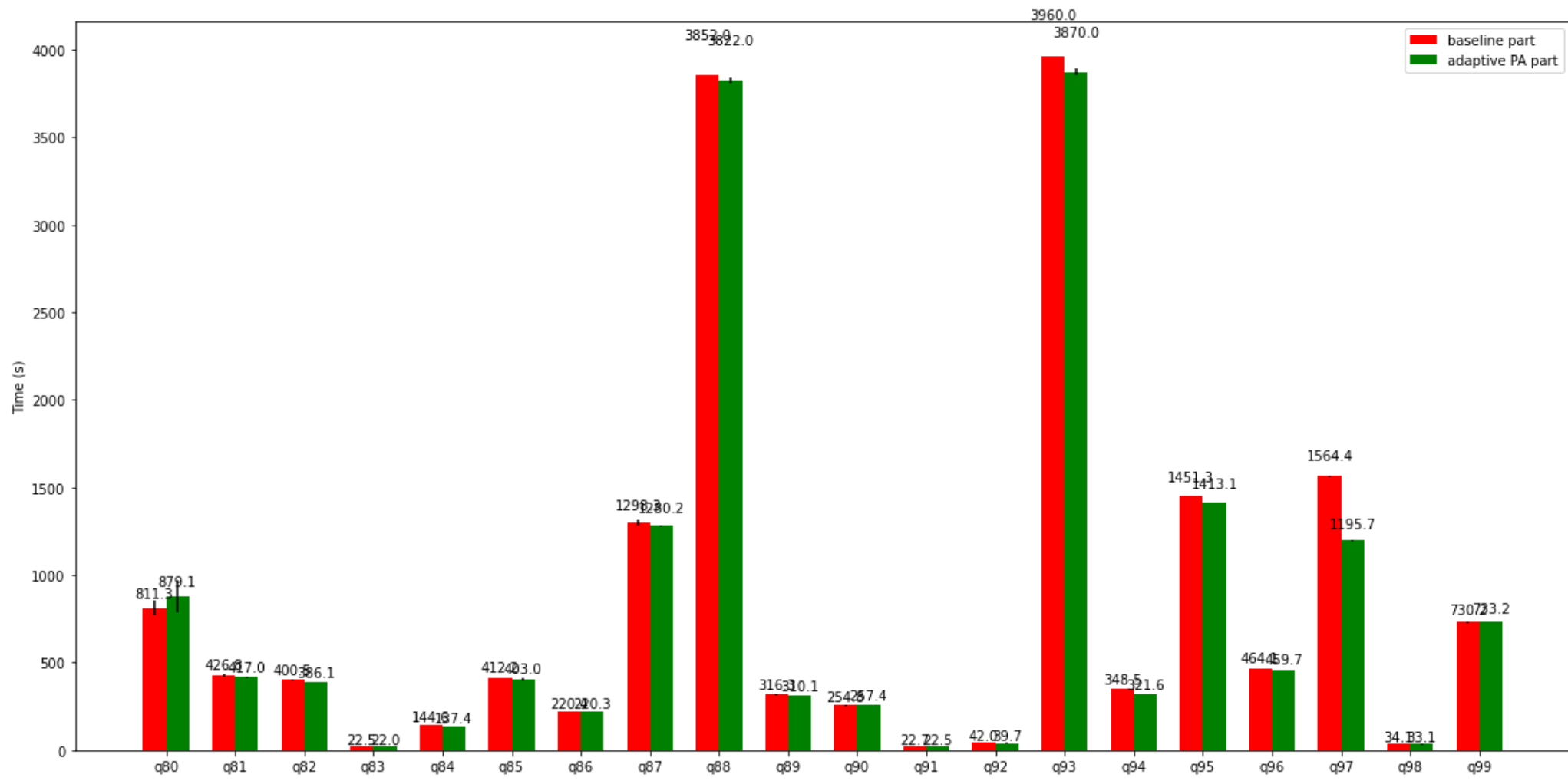
TPC-DS Comparison (CPU)

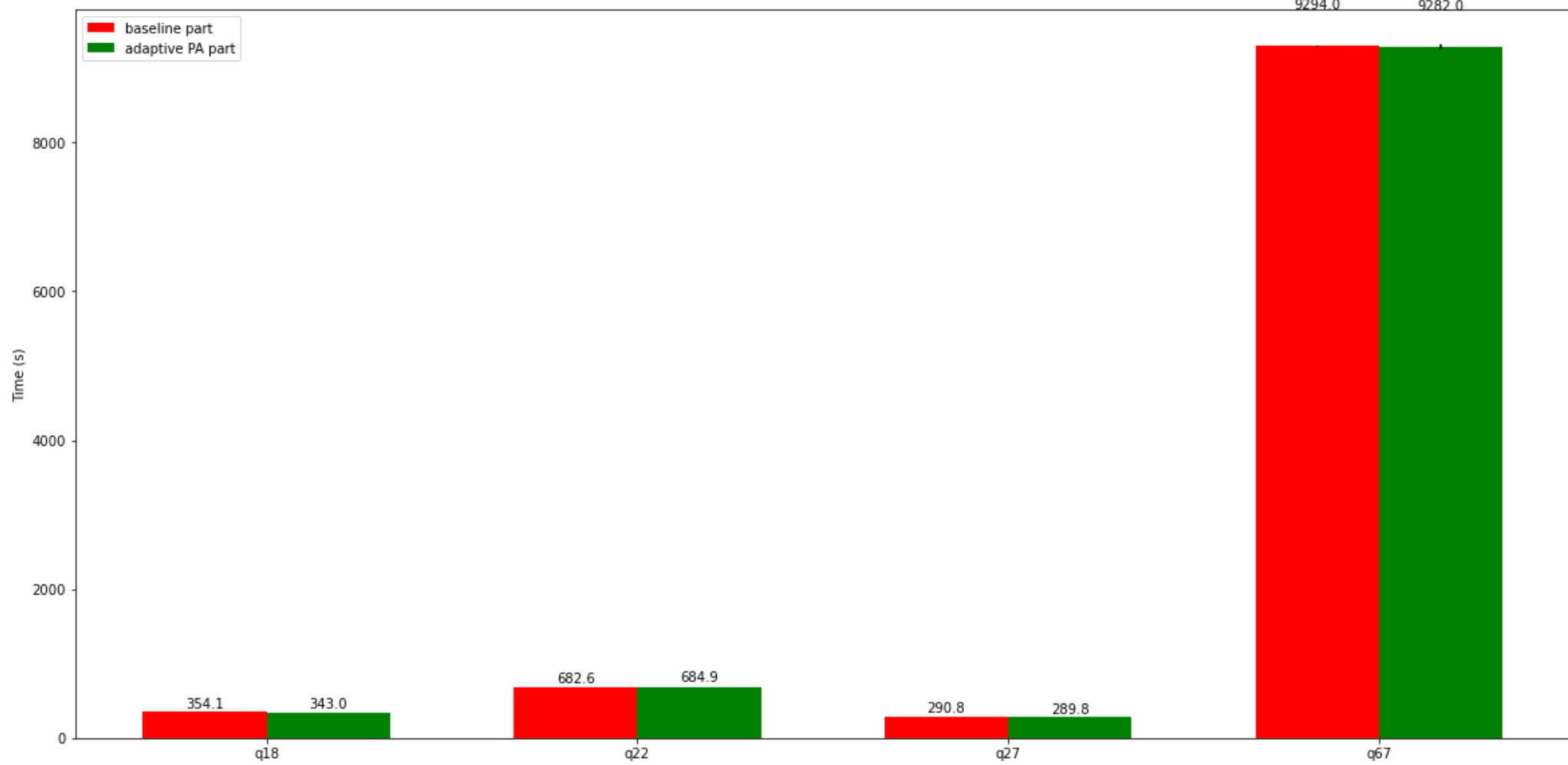












	query	baseline part mean	baseline part std.dev	adaptive PA part mean	adaptive PA part std.dev	% change	baseline part std.dev %	adaptive PA part std.dev %	p-value
64	presto/tpcds: q65	2299.60	5.66	1754.00	19.74	-23.73	0.25	1.13	0.00000
96	presto/tpcds: q97	1564.40	4.45	1195.70	5.40	-23.57	0.28	0.45	0.00000
38	presto/tpcds: q39	95.50	1.67	82.70	2.61	-13.40	1.75	3.16	0.00000
0	presto/tpcds: q01	317.80	11.37	284.20	13.17	-10.57	3.58	4.63	0.00080
77	presto/tpcds: q78	4920.00	54.20	4404.00	84.17	-10.49	1.10	1.91	0.00000
93	presto/tpcds: q94	348.50	0.59	321.60	0.38	-7.72	0.17	0.12	0.00000

	query	baseline part mean	baseline part std.dev	adaptive PA part mean	adaptive PA part std.dev	% change	baseline part std.dev %	adaptive PA part std.dev %	p-value
15	presto/tpcds: q16	674.00	1.68	623.30	1.28	-7.52	0.25	0.21	0.00000
91	presto/tpcds: q92	41.99	1.01	39.71	2.73	-5.44	2.41	6.86	0.08312
83	presto/tpcds: q84	144.60	1.47	137.40	0.66	-4.98	1.02	0.48	0.00000
20	presto/tpcds: q21	20.20	0.41	19.23	0.30	-4.78	2.04	1.56	0.00092
74	presto/tpcds: q75	2825.30	8.00	2694.10	16.36	-4.64	0.28	0.61	0.00000
39	presto/tpcds: q40	459.90	4.49	438.80	6.39	-4.59	0.98	1.46	0.00006
16	presto/tpcds: q17	220.70	0.80	212.20	0.62	-3.85	0.36	0.29	0.00000
59	presto/tpcds: q60	105.70	4.38	101.70	1.41	-3.78	4.15	1.38	0.05918
81	presto/tpcds: q82	400.50	1.12	386.10	0.63	-3.60	0.28	0.16	0.00000
24	presto/tpcds: q25	148.80	1.52	143.60	0.31	-3.49	1.02	0.22	0.00001
36	presto/tpcds: q37	192.00	0.38	185.30	0.70	-3.49	0.20	0.38	0.00000
43	presto/tpcds: q44	1396.70	3.07	1348.90	6.15	-3.42	0.22	0.46	0.00000
75	presto/tpcds: q76	840.00	2.52	811.90	5.01	-3.35	0.30	0.62	0.00000
17	presto/tpcds: q18	354.10	5.99	343.00	3.71	-3.13	1.69	1.08	0.00318
97	presto/tpcds: q98	34.12	0.72	33.12	0.60	-2.94	2.11	1.81	0.02560
4	presto/tpcds: q05	671.00	31.53	651.50	26.46	-2.91	4.70	4.06	0.27280
8	presto/tpcds: q09	3159.40	12.63	3072.50	26.68	-2.75	0.40	0.87	0.00003
32	presto/tpcds: q33	85.80	4.68	83.50	3.67	-2.68	5.45	4.39	0.36562
94	presto/tpcds: q95	1451.30	2.77	1413.10	2.09	-2.63	0.19	0.15	0.00000

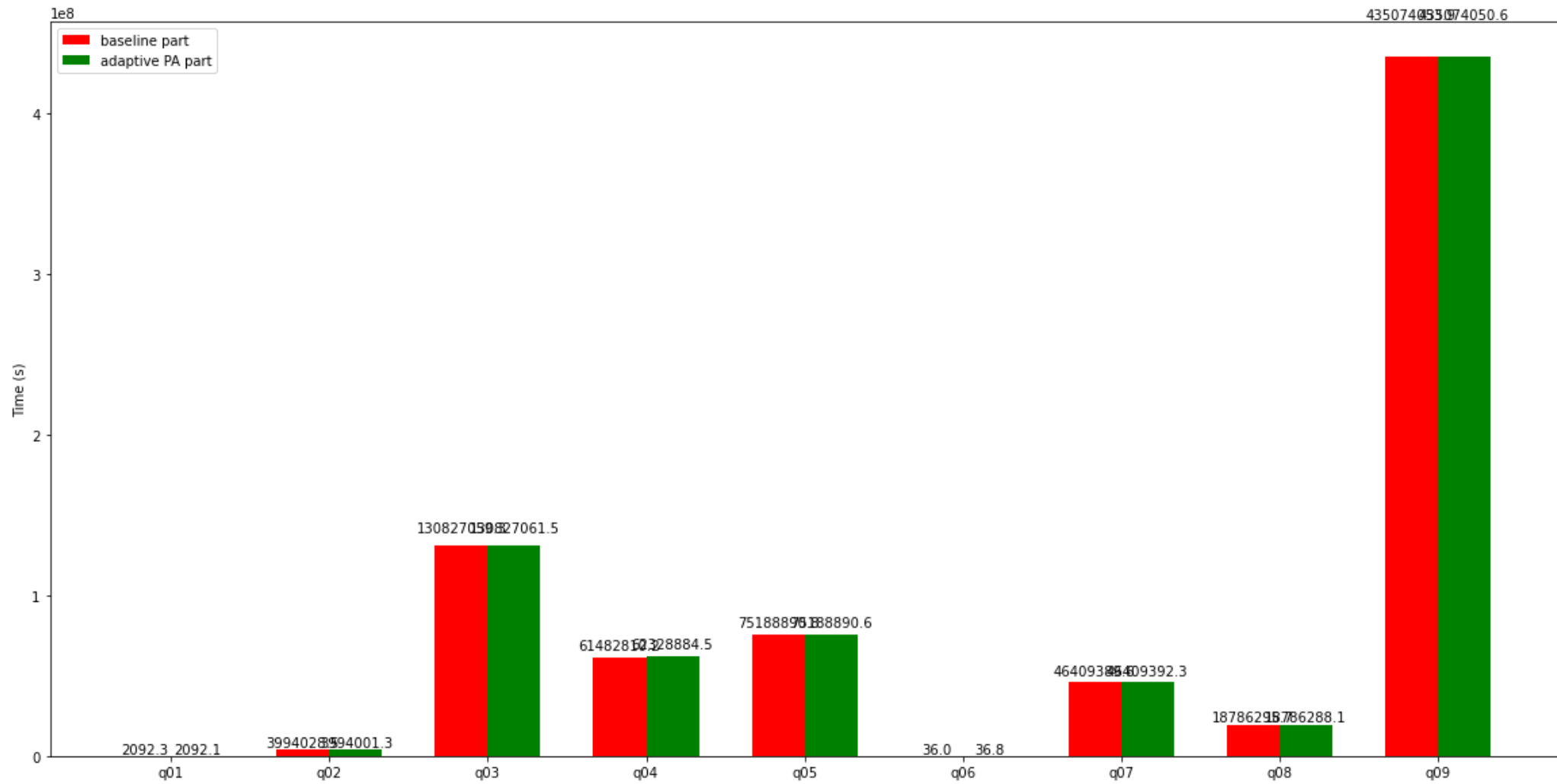
	query	baseline part mean	baseline part std.dev	adaptive PA part mean	adaptive PA part std.dev	% change	baseline part std.dev %	adaptive PA part std.dev %	p-value
67	presto/tpcds:q68	81.20	2.07	79.10	1.16	-2.59	2.55	1.47	0.05533
62	presto/tpcds:q63	155.40	0.38	151.40	0.31	-2.57	0.24	0.20	0.00000
27	presto/tpcds:q28	3447.60	3.78	3359.00	10.55	-2.57	0.11	0.31	0.00000
82	presto/tpcds:q83	22.51	0.74	21.99	0.83	-2.34	3.28	3.80	0.27396
76	presto/tpcds:q77	78.20	2.14	76.40	1.30	-2.30	2.73	1.70	0.10802
80	presto/tpcds:q81	426.80	7.18	417.00	3.29	-2.30	1.68	0.79	0.01244
92	presto/tpcds:q93	3960.00	0.00	3870.00	19.72	-2.27	0.00	0.51	0.00000
84	presto/tpcds:q85	412.20	2.31	403.00	4.73	-2.23	0.56	1.17	0.00162
53	presto/tpcds:q54	684.50	15.47	669.50	19.57	-2.19	2.26	2.92	0.17152
63	presto/tpcds:q64	7080.00	29.39	6930.00	37.76	-2.12	0.42	0.54	0.00002
49	presto/tpcds:q50	1042.10	1.58	1020.90	0.91	-2.03	0.15	0.09	0.00000
88	presto/tpcds:q89	316.30	1.28	310.10	0.88	-1.96	0.41	0.28	0.00000
51	presto/tpcds:q52	34.11	0.12	33.45	0.12	-1.93	0.35	0.37	0.00000
18	presto/tpcds:q19	79.10	4.82	77.60	3.19	-1.90	6.10	4.11	0.53933
5	presto/tpcds:q06	70.30	0.96	69.00	0.66	-1.85	1.37	0.95	0.02103
50	presto/tpcds:q51	953.20	4.30	935.90	4.61	-1.81	0.45	0.49	0.00005
41	presto/tpcds:q42	33.40	0.11	32.83	0.06	-1.71	0.34	0.19	0.00000
29	presto/tpcds:q30	183.40	5.98	180.70	7.27	-1.47	3.26	4.03	0.49859
14	presto/tpcds:q15	69.00	0.00	68.00	0.31	-1.45	0.00	0.46	0.00001

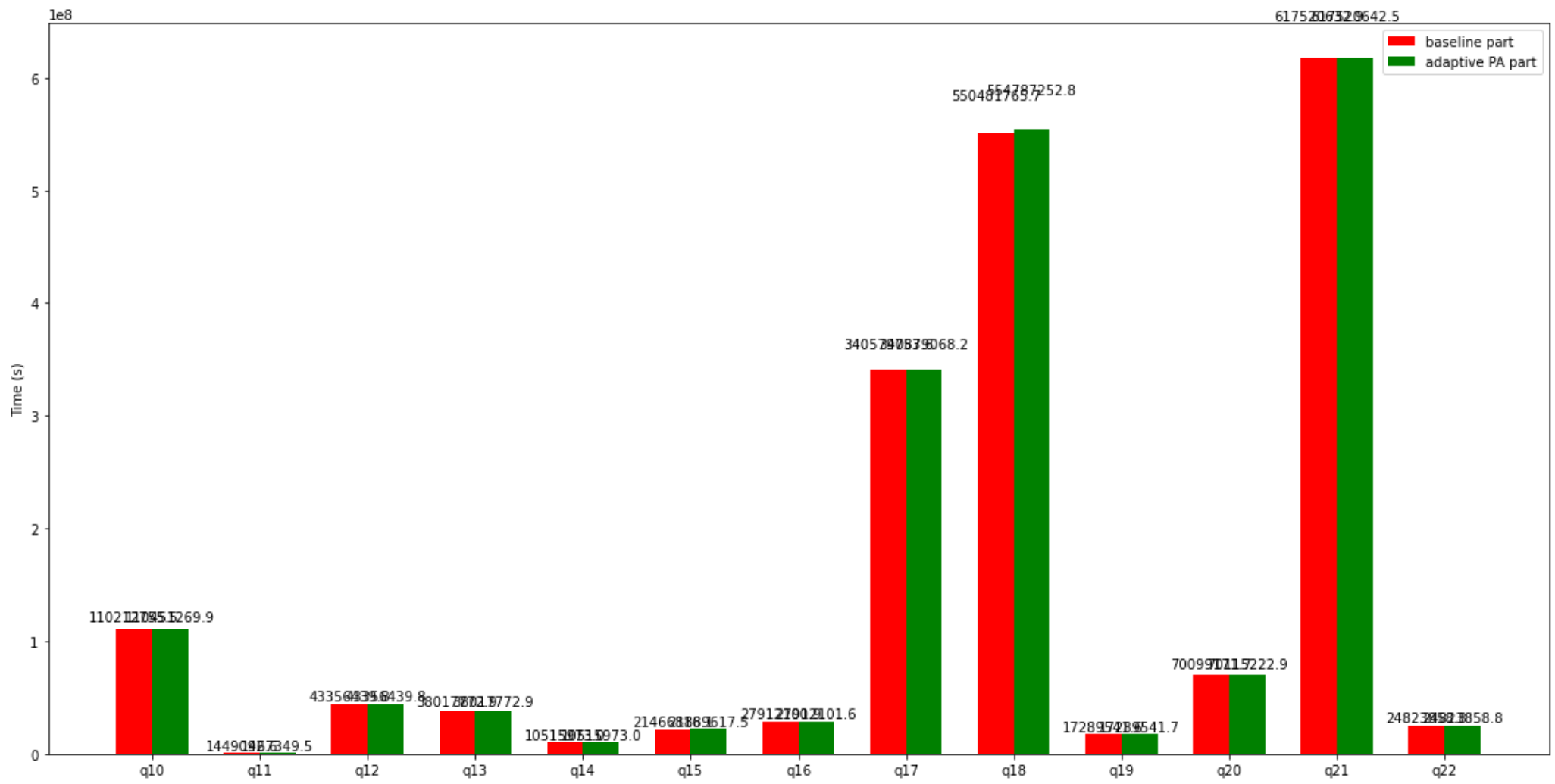
	query	baseline part mean	baseline part std.dev	adaptive PA part mean	adaptive PA part std.dev	% change	baseline part std.dev %	adaptive PA part std.dev %	p-value
86	presto/tpcds: q87	1298.30	12.51	1280.20	5.40	-1.39	0.96	0.42	0.00866
55	presto/tpcds: q56	34.95	0.29	34.52	0.67	-1.26	0.84	1.94	0.17081
65	presto/tpcds: q66	367.80	6.63	363.70	5.81	-1.11	1.80	1.60	0.28105
95	presto/tpcds: q96	464.10	0.63	459.70	0.59	-0.95	0.14	0.13	0.00000
90	presto/tpcds: q91	22.66	2.33	22.47	2.26	-0.85	10.29	10.08	0.88707
25	presto/tpcds: q26	188.70	2.03	187.10	2.90	-0.85	1.08	1.55	0.29454
40	presto/tpcds: q41	1.06	0.01	1.05	0.01	-0.79	1.03	0.72	0.15561
87	presto/tpcds: q88	3852.00	0.00	3822.00	14.70	-0.78	0.00	0.38	0.00054
58	presto/tpcds: q59	3762.00	19.72	3738.00	14.70	-0.64	0.52	0.39	0.03793
34	presto/tpcds: q35	397.90	14.34	395.50	3.93	-0.60	3.60	0.99	0.70083
23	presto/tpcds: q24	4374.00	19.72	4350.00	14.70	-0.55	0.45	0.34	0.03793
44	presto/tpcds: q45	84.70	0.24	84.40	1.30	-0.35	0.29	1.54	0.58972
26	presto/tpcds: q27	290.80	2.14	289.80	1.37	-0.34	0.73	0.47	0.35690
60	presto/tpcds: q61	169.40	1.68	169.10	0.96	-0.18	0.99	0.57	0.71249
68	presto/tpcds: q69	54.77	0.16	54.67	0.20	-0.18	0.29	0.37	0.38227
73	presto/tpcds: q74	1821.50	9.34	1818.80	3.39	-0.15	0.51	0.19	0.52056
66	presto/tpcds: q67	9294.00	14.70	9282.00	35.39	-0.13	0.16	0.38	0.46083
48	presto/tpcds: q49	465.60	2.37	465.00	2.18	-0.13	0.51	0.47	0.65783
12	presto/tpcds: q13	545.30	1.49	544.80	0.93	-0.09	0.27	0.17	0.50144

	query	baseline part mean	baseline part std.dev	adaptive PA part mean	adaptive PA part std.dev	% change	baseline part std.dev %	adaptive PA part std.dev %	p-value
85	presto/tpcds:q86	220.40	1.64	220.30	1.49	-0.05	0.74	0.68	0.91415
6	presto/tpcds:q07	347.00	1.81	346.90	1.54	-0.03	0.52	0.44	0.91980
35	presto/tpcds:q36	280.00	0.62	280.20	0.66	0.07	0.22	0.23	0.59947
1	presto/tpcds:q02	2824.20	13.23	2826.40	12.88	0.08	0.47	0.46	0.77637
30	presto/tpcds:q31	502.30	4.84	503.50	7.89	0.24	0.96	1.57	0.75732
21	presto/tpcds:q22	682.60	5.20	684.90	1.41	0.34	0.76	0.21	0.32014
22	presto/tpcds:q23	13314.00	52.99	13362.00	42.09	0.36	0.40	0.31	0.11294
98	presto/tpcds:q99	730.20	2.68	733.20	3.39	0.41	0.37	0.46	0.12027
28	presto/tpcds:q29	498.50	5.14	500.80	6.08	0.46	1.03	1.21	0.49529
37	presto/tpcds:q38	1247.20	16.57	1253.60	7.56	0.51	1.33	0.60	0.40942
71	presto/tpcds:q72	1283.70	29.81	1290.90	24.31	0.56	2.32	1.88	0.65644
31	presto/tpcds:q32	56.23	4.81	56.58	2.13	0.61	8.56	3.77	0.87680
3	presto/tpcds:q04	4842.00	19.72	4872.00	29.39	0.62	0.41	0.60	0.06462
70	presto/tpcds:q71	80.30	2.09	80.80	1.77	0.62	2.61	2.19	0.66425
69	presto/tpcds:q70	1263.60	13.42	1272.00	19.78	0.66	1.06	1.56	0.40947
10	presto/tpcds:q11	2777.40	3.22	2796.00	5.26	0.67	0.12	0.19	0.00002
54	presto/tpcds:q55	32.45	0.13	32.68	0.99	0.70	0.40	3.03	0.58747
45	presto/tpcds:q46	255.10	5.99	257.10	2.93	0.78	2.35	1.14	0.47967
89	presto/tpcds:q90	254.80	0.31	257.40	0.38	1.02	0.12	0.15	0.00000

max 43
Name: % change, dtype: float64

TPC-H Comparison (Network)





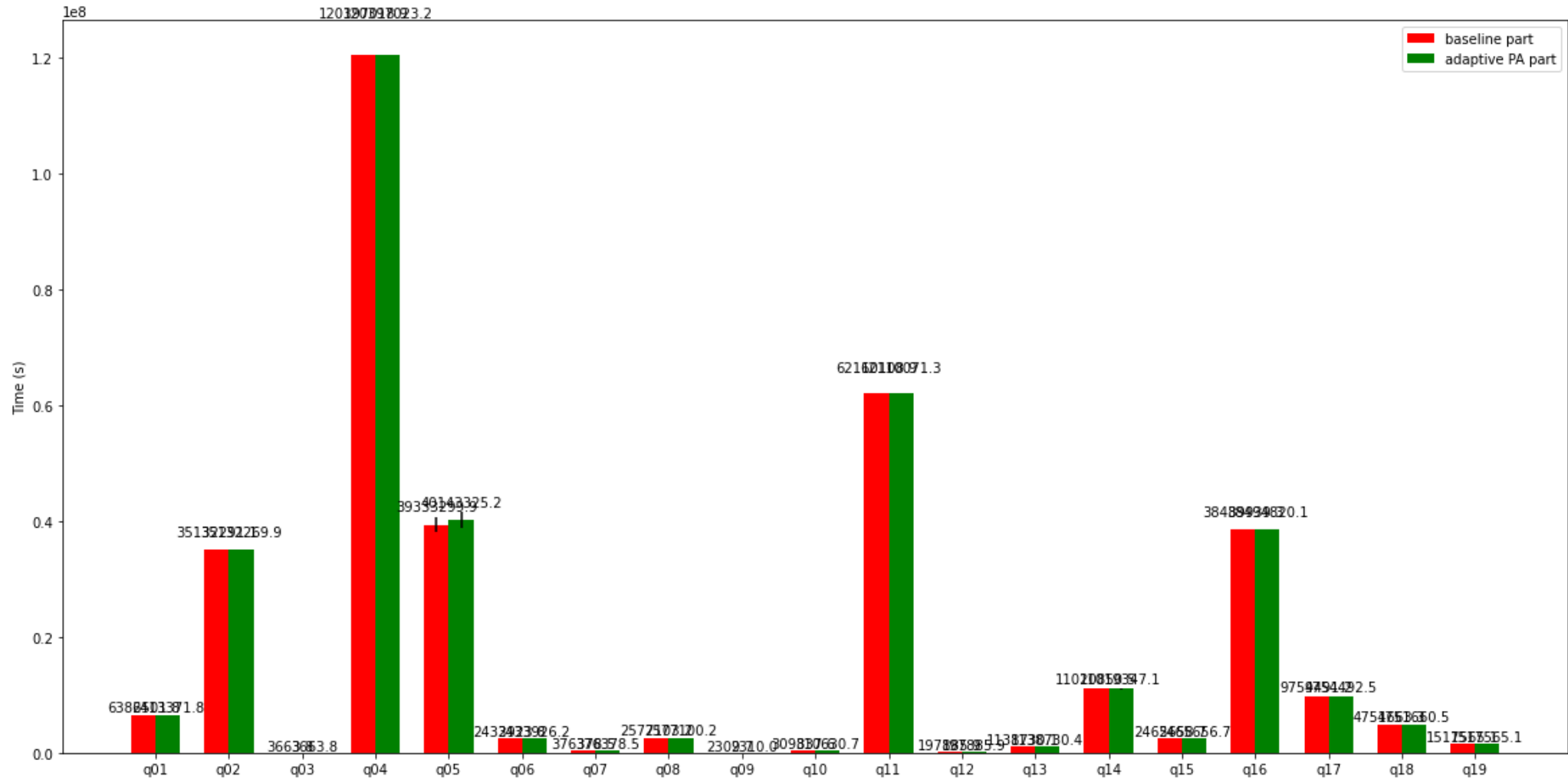
	query	baseline part mean	baseline part std.dev	adaptive PA part mean	adaptive PA part std.dev	% change	baseline part std.dev %	adaptive PA part std.dev %	p-value
0	presto/tpch: q01	2092.33	7.17	2092.11	5.88	-0.01	0.34	0.28	0.95483
1	presto/tpch: q02	3994028.54	27.51	3994001.29	34.64	-0.00	0.00	0.00	0.16224
7	presto/tpch: q08	18786295.75	6.68	18786288.11	8.07	-0.00	0.00	0.00	0.10476
8	presto/tpch: q09	435074053.93	8.81	435074050.63	4.05	-0.00	0.00	0.00	0.42420
4	presto/tpch: q05	75188890.79	7.30	75188890.59	7.82	-0.00	0.00	0.00	0.96481

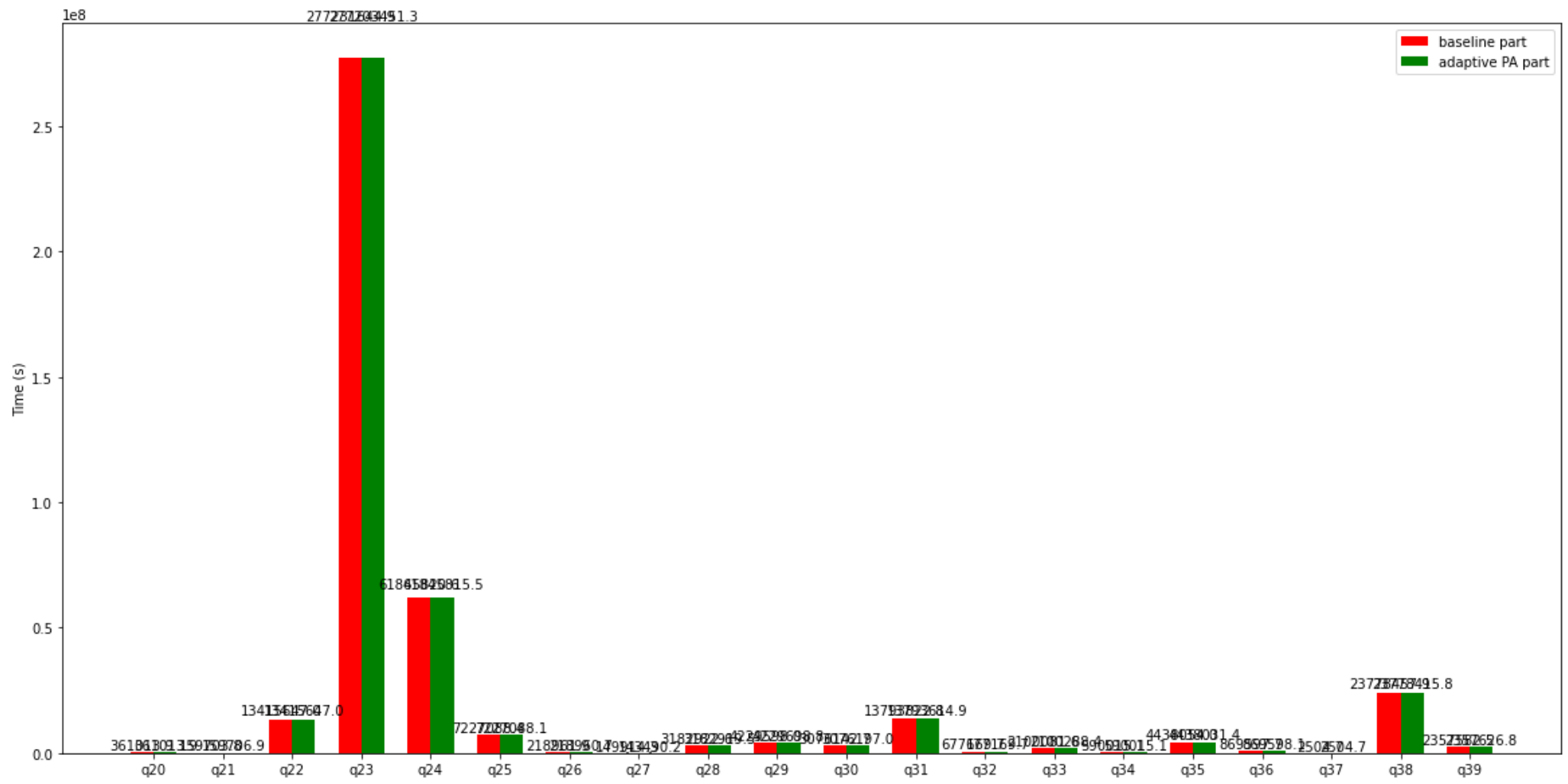
	query	baseline part mean	baseline part std.dev	adaptive PA part mean	adaptive PA part std.dev	% change	baseline part std.dev %	adaptive PA part std.dev %	p-value
13	presto/tpch: q14	10515972.95	0.00	10515972.95	0.00	0.00	0.00	0.00	nan
12	presto/tpch: q13	38017772.90	0.00	38017772.90	0.00	0.00	0.00	0.00	nan
11	presto/tpch: q12	43356439.80	0.00	43356439.80	0.00	0.00	0.00	0.00	nan
21	presto/tpch: q22	24823858.78	0.04	24823858.78	0.04	0.00	0.00	0.00	1.00000
18	presto/tpch: q19	17289541.58	0.00	17289541.70	0.27	0.00	0.00	0.00	0.34089
20	presto/tpch: q21	617520632.87	16.72	617520642.53	14.22	0.00	0.00	0.00	0.30594
2	presto/tpch: q03	130827059.31	3.57	130827061.50	7.73	0.00	0.00	0.00	0.54343
15	presto/tpch: q16	27912100.86	1.75	27912101.64	2.15	0.00	0.00	0.00	0.50414
6	presto/tpch: q07	46409389.57	5.13	46409392.35	4.87	0.00	0.00	0.00	0.35946
19	presto/tpch: q20	70099171.67	1.50	70115222.88	53.82	0.02	0.00	0.00	0.00000
16	presto/tpch: q17	340579753.60	3.63	340879068.17	719.79	0.09	0.00	0.00	0.00000
9	presto/tpch: q10	110212755.50	3229.48	110451269.91	1384.30	0.22	0.00	0.00	0.00000
17	presto/tpch: q18	550481765.67	7.28	554787252.82	4336.19	0.78	0.00	0.00	0.00000
10	presto/tpch: q11	1449092.60	0.05	1467349.53	6354.16	1.26	0.00	0.43	0.00004
3	presto/tpch: q04	61482810.16	2.47	62328884.51	567.46	1.38	0.00	0.00	0.00000
14	presto/tpch: q15	21466816.08	0.00	21889617.47	72.57	1.97	0.00	0.00	0.00000
5	presto/tpch: q06	36.04	1.41	36.79	0.30	2.10	3.91	0.82	0.22759

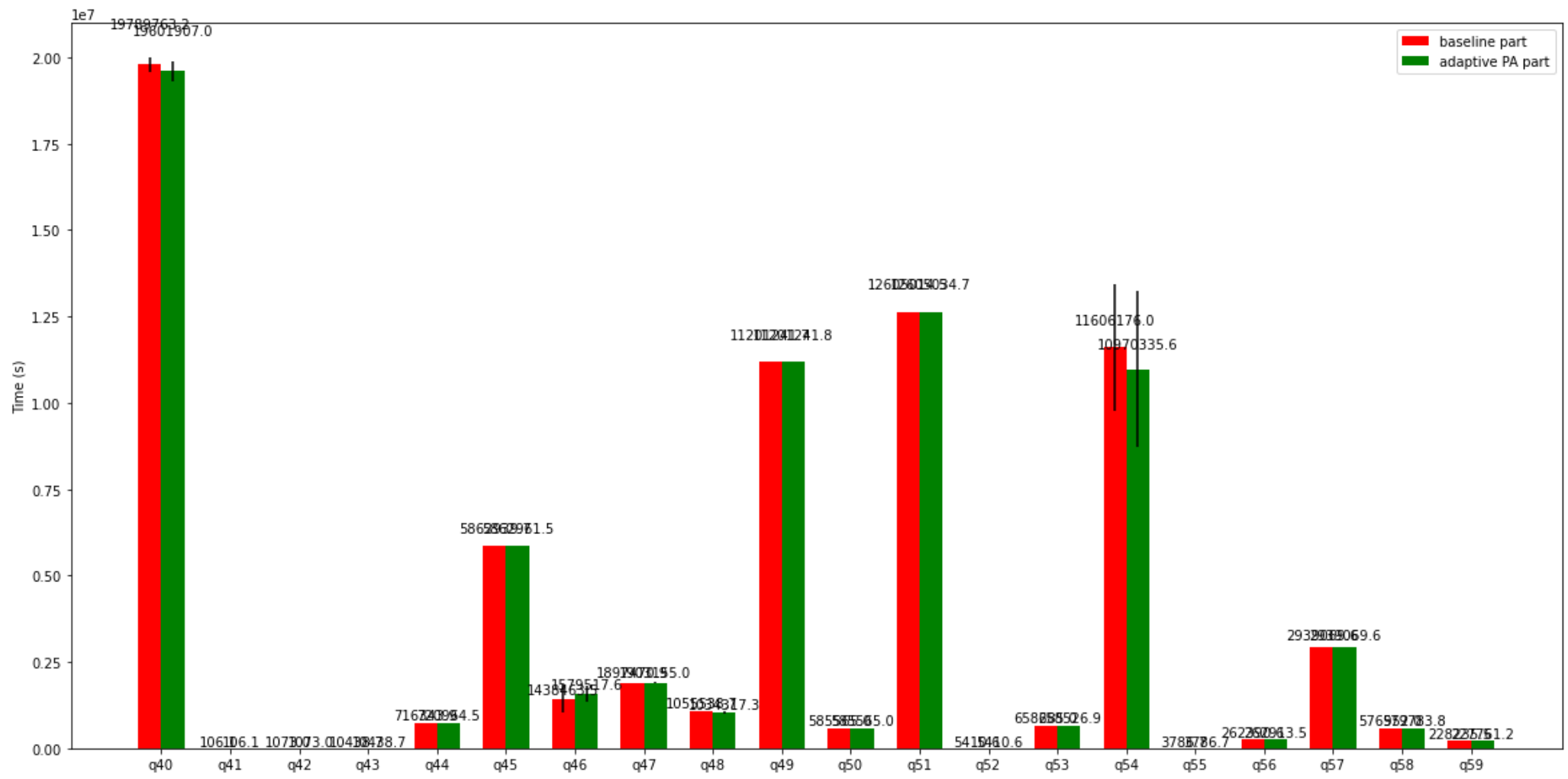
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std 1
min -0
25% 0
50% 0
75% 0

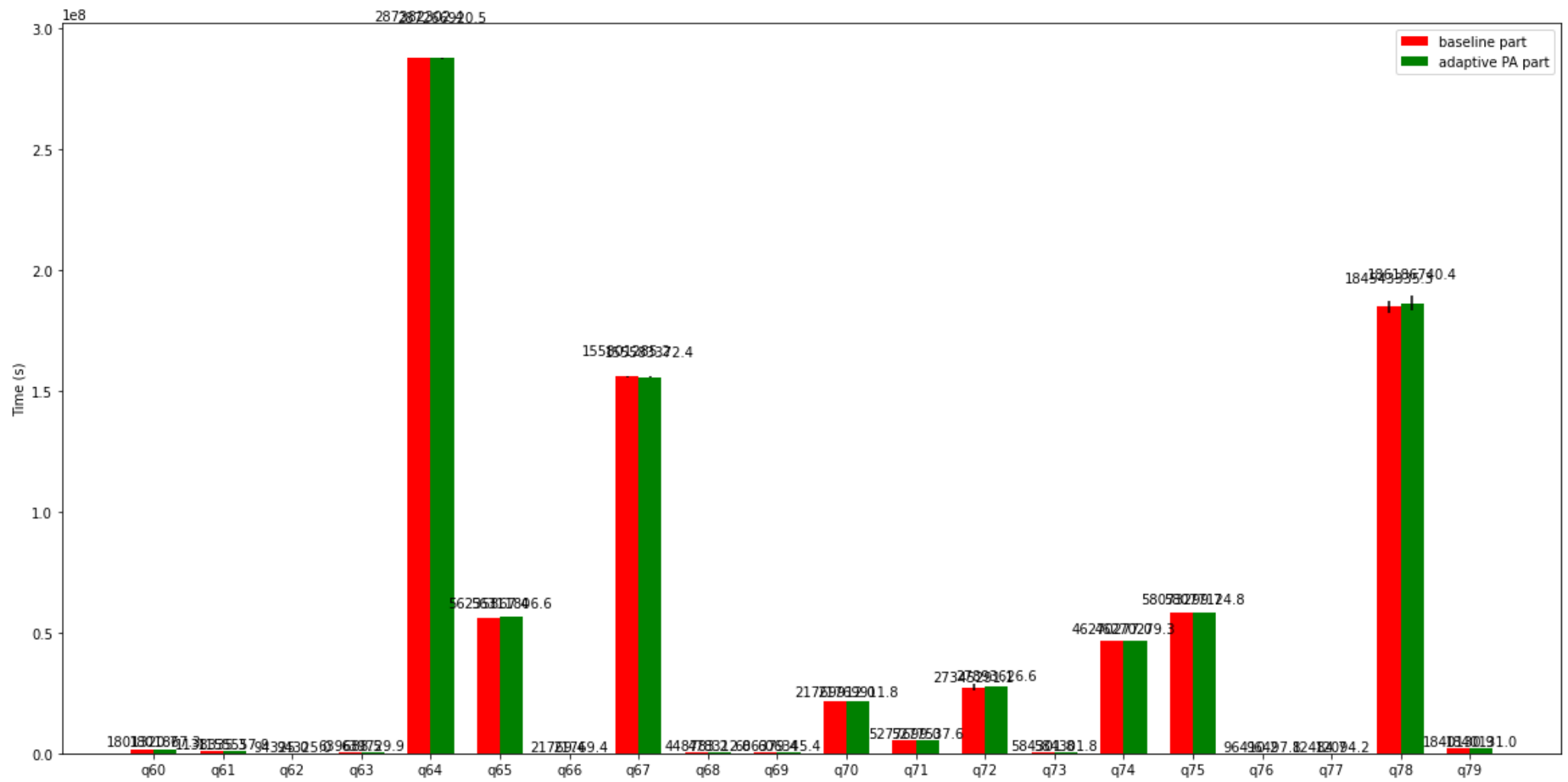
max 2
Name: % change, dtype: float64

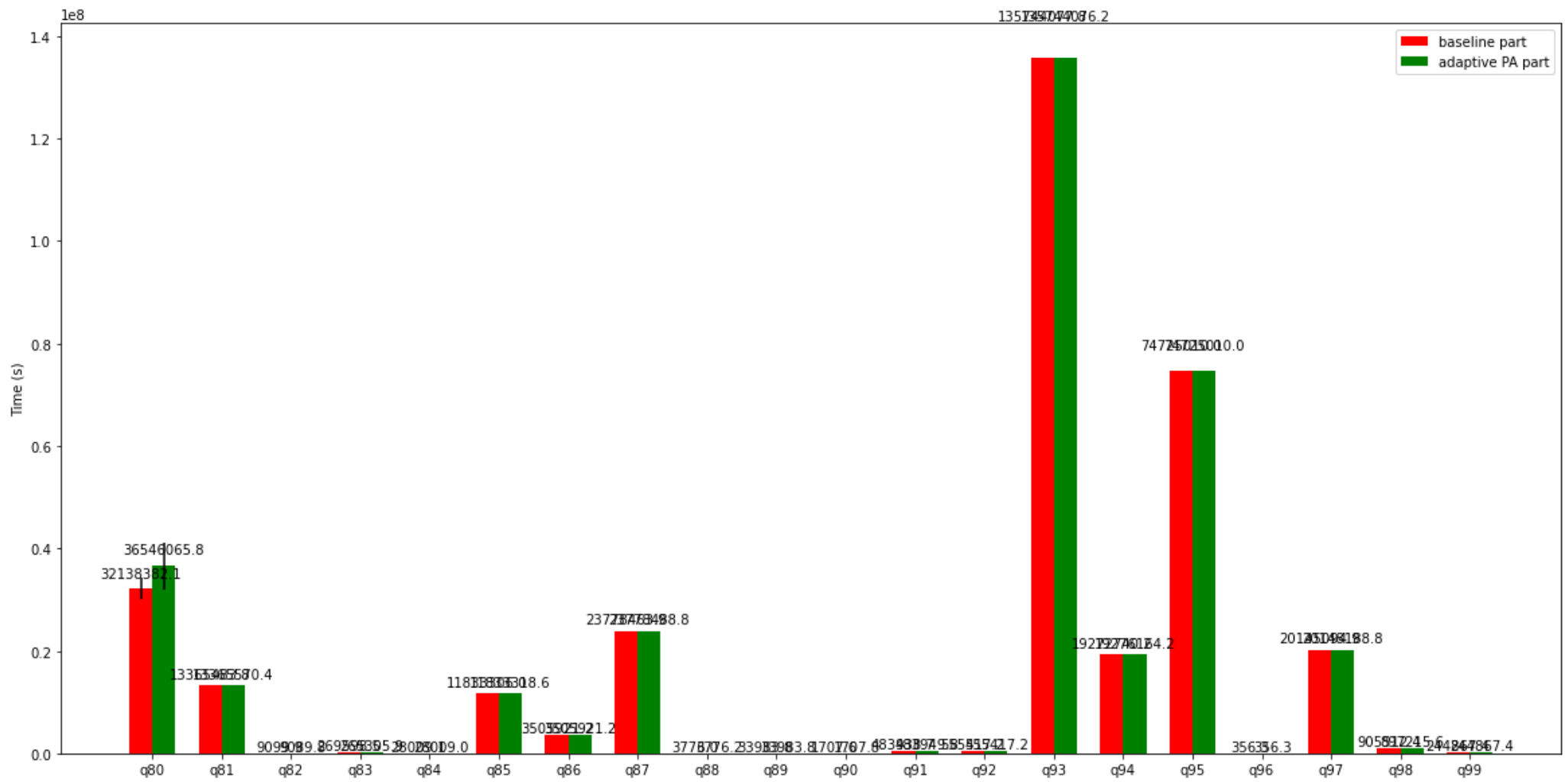
TPC-DS Comparison (Network)











	query	baseline part mean	baseline part std.dev	adaptive PA part mean	adaptive PA part std.dev	% change	baseline part std.dev %	adaptive PA part std.dev %	p-value
53	presto/tpcds: q54	11606176.01	1825356.40	10970335.63	2261443.34	-5.48	15.73	20.61	0.60373
26	presto/tpcds: q27	149914.34	22533.09	143490.22	18952.47	-4.29	15.03	13.21	0.60472
76	presto/tpcds: q77	12484.71	588.85	12094.21	599.24	-3.13	4.72	4.95	0.28143
47	presto/tpcds: q48	1055538.69	0.00	1034317.28	51981.63	-2.01	0.00	5.03	0.34089
82	presto/tpcds: q83	269598.45	5963.87	265305.92	2835.61	-1.59	2.21	1.07	0.14242

	query	baseline part mean	baseline part std.dev	adaptive PA part mean	adaptive PA part std.dev	% change	baseline part std.dev %	adaptive PA part std.dev %	p-value
39	presto/tpcds:q40	19789763.18	205779.60	19601906.98	297494.35	-0.95	1.04	1.52	0.23213
97	presto/tpcds:q98	905512.39	8913.38	897215.58	6025.03	-0.92	0.98	0.67	0.08821
58	presto/tpcds:q59	228235.50	344.72	227761.19	526.22	-0.21	0.15	0.23	0.09453
66	presto/tpcds:q67	155801285.24	161406.93	155583372.43	444241.66	-0.14	0.10	0.29	0.28513
81	presto/tpcds:q82	9099.90	8.38	9089.79	10.32	-0.11	0.09	0.11	0.09228
63	presto/tpcds:q64	287382302.38	97379.57	287266920.47	94139.12	-0.04	0.03	0.03	0.06348
13	presto/tpcds:q14	11020850.54	12366.56	11019347.10	24698.67	-0.01	0.11	0.22	0.89658
22	presto/tpcds:q23	277231644.90	24659.74	277203451.28	57751.30	-0.01	0.01	0.02	0.29721
68	presto/tpcds:q69	606379.40	812.50	606345.45	442.77	-0.01	0.13	0.07	0.93017
70	presto/tpcds:q71	5277698.97	133.07	5277537.62	296.86	-0.00	0.00	0.01	0.25231
95	presto/tpcds:q96	356.29	0.18	356.29	0.08	-0.00	0.05	0.02	0.92717
30	presto/tpcds:q31	13793822.82	562.09	13793614.86	488.17	-0.00	0.00	0.00	0.50938
25	presto/tpcds:q26	218961.89	0.00	218960.68	2.97	-0.00	0.00	0.00	0.34089
34	presto/tpcds:q35	4438054.03	144.01	4438031.42	370.96	-0.00	0.00	0.01	0.89209
37	presto/tpcds:q38	23778457.89	70.10	23778415.84	50.40	-0.00	0.00	0.00	0.26042
7	presto/tpcds:q08	2577103.18	12.10	2577100.19	20.73	-0.00	0.00	0.00	0.76668
27	presto/tpcds:q28	3182922.65	6.59	3182919.47	15.16	-0.00	0.00	0.00	0.64790
14	presto/tpcds:q15	2465658.67	6.39	2465656.67	1.62	-0.00	0.00	0.00	0.47389
83	presto/tpcds:q84	28009.05	0.00	28009.03	0.05	-0.00	0.00	0.00	0.34089

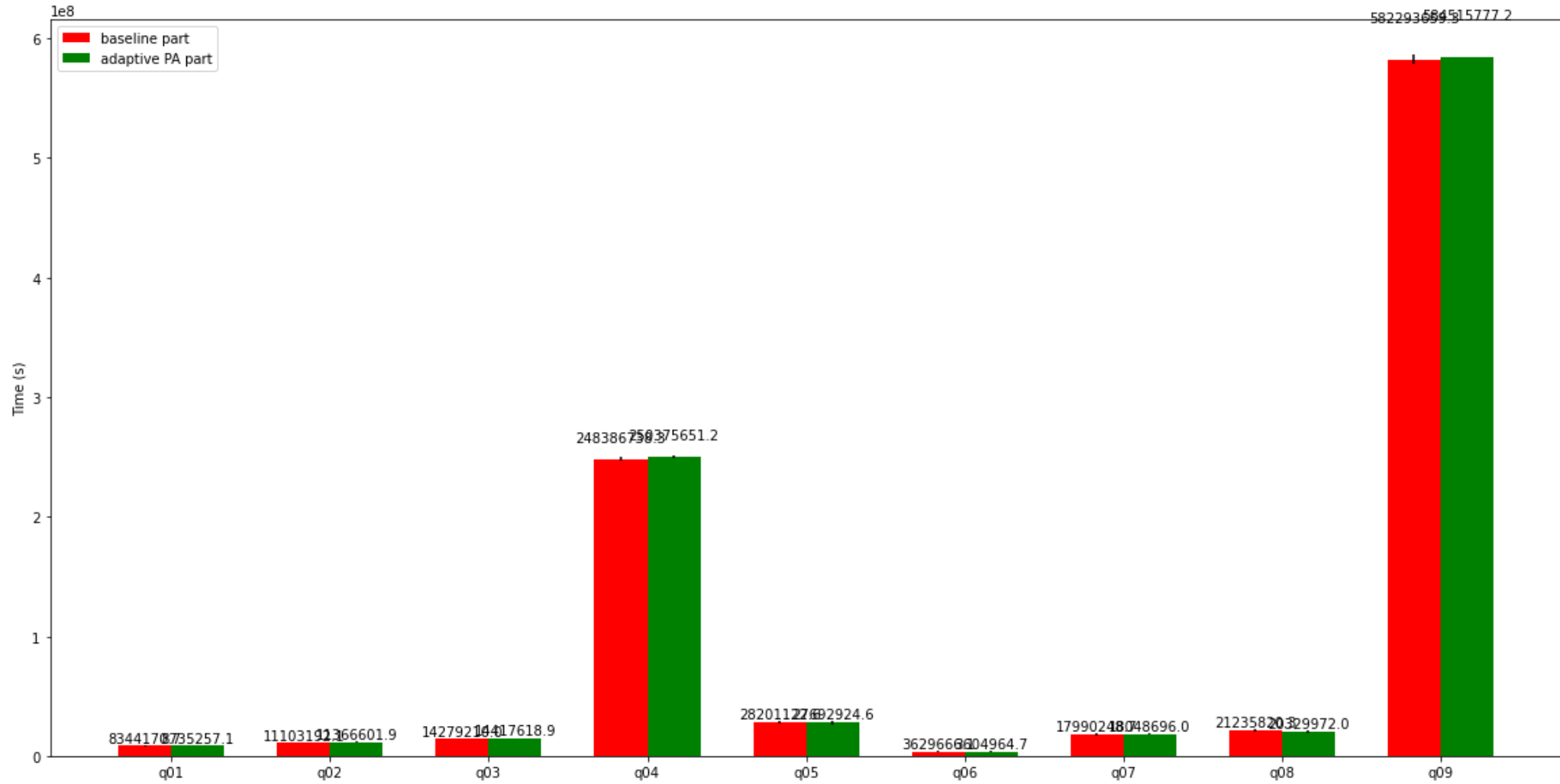
	query	baseline part mean	baseline part std.dev	adaptive PA part mean	adaptive PA part std.dev	% change	baseline part std.dev %	adaptive PA part std.dev %	p-value
10	presto/tpcds: q11	62110108.90	62.41	62110071.26	38.70	-0.00	0.00	0.00	0.23782
1	presto/tpcds: q02	35132291.09	81.81	35132269.85	103.67	-0.00	0.00	0.00	0.70196
17	presto/tpcds: q18	4751663.29	14.32	4751660.49	10.49	-0.00	0.00	0.00	0.70733
23	presto/tpcds: q24	61845820.65	29.88	61845815.51	22.78	-0.00	0.00	0.00	0.74493
24	presto/tpcds: q25	7227088.37	1.13	7227088.13	2.01	-0.00	0.00	0.00	0.80392
92	presto/tpcds: q93	135744077.75	9.72	135744076.17	10.62	-0.00	0.00	0.00	0.79269
69	presto/tpcds: q70	21769911.98	0.73	21769911.79	0.42	-0.00	0.00	0.00	0.58028
33	presto/tpcds: q34	590015.13	0.00	590015.13	0.00	-0.00	0.00	0.00	0.73417
51	presto/tpcds: q52	5410.64	0.00	5410.64	0.00	0.00	0.00	0.00	nan
49	presto/tpcds: q50	585565.04	0.00	585565.04	0.00	0.00	0.00	0.00	nan
65	presto/tpcds: q66	21769.45	0.00	21769.45	0.00	0.00	0.00	0.00	nan
56	presto/tpcds: q57	2939069.58	0.00	2939069.58	0.00	0.00	0.00	0.00	nan
61	presto/tpcds: q62	94325.05	0.00	94325.05	0.00	0.00	0.00	0.00	nan
88	presto/tpcds: q89	33983.81	0.00	33983.81	0.00	0.00	0.00	0.00	nan
91	presto/tpcds: q92	555417.19	0.00	555417.19	0.00	0.00	0.00	0.00	nan
94	presto/tpcds: q95	74725010.00	0.00	74725010.00	0.00	0.00	0.00	0.00	nan
54	presto/tpcds: q55	3786.73	0.00	3786.73	0.00	0.00	0.00	0.00	nan
42	presto/tpcds: q43	10438.68	0.00	10438.68	0.00	0.00	0.00	0.00	nan
98	presto/tpcds: q99	244867.35	0.00	244867.35	0.00	0.00	0.00	0.00	nan

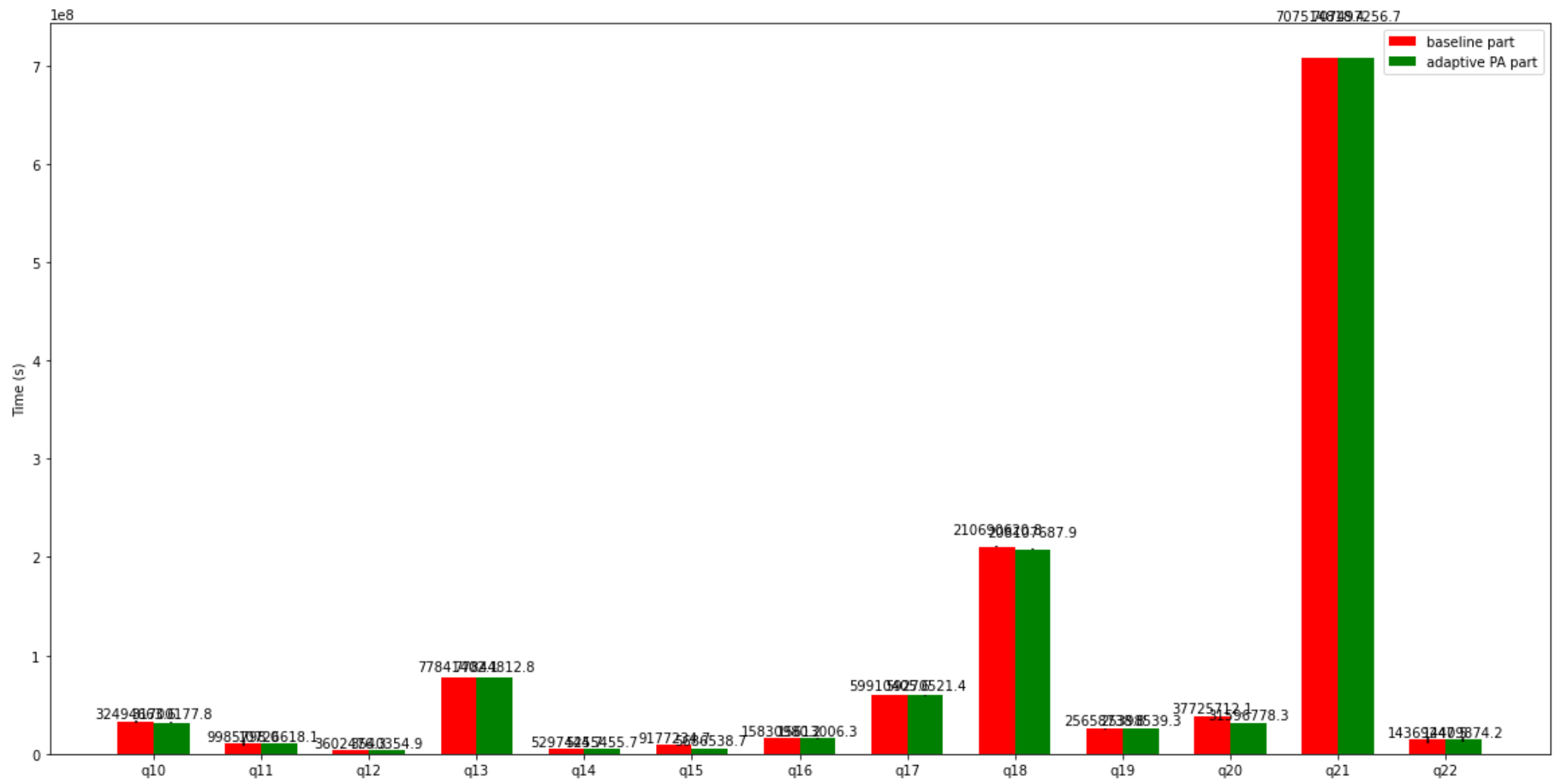
	query	baseline part mean	baseline part std.dev	adaptive PA part mean	adaptive PA part std.dev	% change	baseline part std.dev %	adaptive PA part std.dev %	p-value
6	presto/tpcds:q07	376378.55	0.00	376378.55	0.00	0.00	0.00	0.00	nan
41	presto/tpcds:q42	1072.95	0.00	1072.95	0.00	0.00	0.00	0.00	nan
19	presto/tpcds:q20	361013.94	0.00	361013.94	0.00	0.00	0.00	0.00	nan
21	presto/tpcds:q22	13415646.97	0.00	13415646.97	0.00	0.00	0.00	0.00	nan
2	presto/tpcds:q03	3663.83	0.00	3663.83	0.00	0.00	0.00	0.00	nan
18	presto/tpcds:q19	1517565.07	0.00	1517565.07	0.00	0.00	0.00	0.00	nan
11	presto/tpcds:q12	197885.88	0.00	197885.88	0.00	0.00	0.00	0.00	nan
36	presto/tpcds:q37	2504.65	0.00	2504.65	0.00	0.00	0.00	0.00	nan
31	presto/tpcds:q32	677169.73	0.00	677169.73	0.00	0.00	0.00	0.00	nan
40	presto/tpcds:q41	106.10	0.00	106.10	0.00	0.00	0.00	0.00	nan
48	presto/tpcds:q49	11201241.74	0.72	11201241.79	0.74	0.00	0.00	0.00	0.90181
72	presto/tpcds:q73	584301.76	0.02	584301.77	0.01	0.00	0.00	0.00	0.60213
85	presto/tpcds:q86	3505921.18	0.19	3505921.23	0.09	0.00	0.00	0.00	0.56023
3	presto/tpcds:q04	120397018.94	51.33	120397023.20	50.73	0.00	0.00	0.00	0.88810
73	presto/tpcds:q74	46270276.99	23.23	46270279.30	15.96	0.00	0.00	0.00	0.84489
78	presto/tpcds:q79	1840130.88	0.20	1840130.99	0.18	0.00	0.00	0.00	0.32365
16	presto/tpcds:q17	9754491.17	1.73	9754492.47	1.41	0.00	0.00	0.00	0.18532
12	presto/tpcds:q13	1138730.14	2.10	1138730.43	1.29	0.00	0.00	0.00	0.78213
35	presto/tpcds:q36	869597.74	37.80	869598.06	48.75	0.00	0.00	0.01	0.99000

	query	baseline part mean	baseline part std.dev	adaptive PA part mean	adaptive PA part std.dev	% change	baseline part std.dev %	adaptive PA part std.dev %	p-value
5	presto/tpcds:q06	2433923.78	7.48	2433926.21	14.40	0.00	0.00	0.00	0.72150
86	presto/tpcds:q87	23778463.90	68.81	23778488.79	96.95	0.00	0.00	0.00	0.61916
84	presto/tpcds:q85	11833306.00	58.49	11833318.59	13.32	0.00	0.00	0.00	0.61818
50	presto/tpcds:q51	12605014.46	153.64	12605034.72	91.72	0.00	0.00	0.00	0.78717
44	presto/tpcds:q45	5862939.67	17.88	5862961.48	23.53	0.00	0.00	0.00	0.10078
80	presto/tpcds:q81	13365483.80	81.48	13365570.37	89.56	0.00	0.00	0.00	0.11043
29	presto/tpcds:q30	3076142.71	71.54	3076197.00	46.85	0.00	0.00	0.00	0.15096
38	presto/tpcds:q39	2357582.51	6.93	2357626.77	9.04	0.00	0.00	0.00	0.00000
20	presto/tpcds:q21	159703.78	0.00	159706.95	0.00	0.00	0.00	0.00	0.00000
90	presto/tpcds:q91	483938.71	12.02	483949.84	16.68	0.00	0.00	0.00	0.21429
28	presto/tpcds:q29	4229598.00	5.85	4229698.84	101.89	0.00	0.00	0.00	0.03604
87	presto/tpcds:q88	3776.01	0.68	3776.18	0.84	0.00	0.02	0.02	0.72297
62	presto/tpcds:q63	639688.48	182.74	639729.93	108.73	0.01	0.03	0.02	0.64331
74	presto/tpcds:q75	58073299.73	160.48	58077124.76	194.96	0.01	0.00	0.00	0.00000
32	presto/tpcds:q33	2100081.61	470.16	2100288.42	760.10	0.01	0.02	0.04	0.58333
8	presto/tpcds:q09	2309.69	3.65	2309.95	2.14	0.01	0.16	0.09	0.88205
15	presto/tpcds:q16	38489939.29	0.77	38494820.09	3.13	0.01	0.00	0.00	0.00000
89	presto/tpcds:q90	1707.62	0.41	1707.84	0.14	0.01	0.02	0.01	0.24233
96	presto/tpcds:q97	20145094.95	0.00	20148188.77	37.49	0.02	0.00	0.00	0.00000

25% -0
50% 0
75% 0
max 14
Name: % change, dtype: float64

TPC-H Comparison (Peak memory)

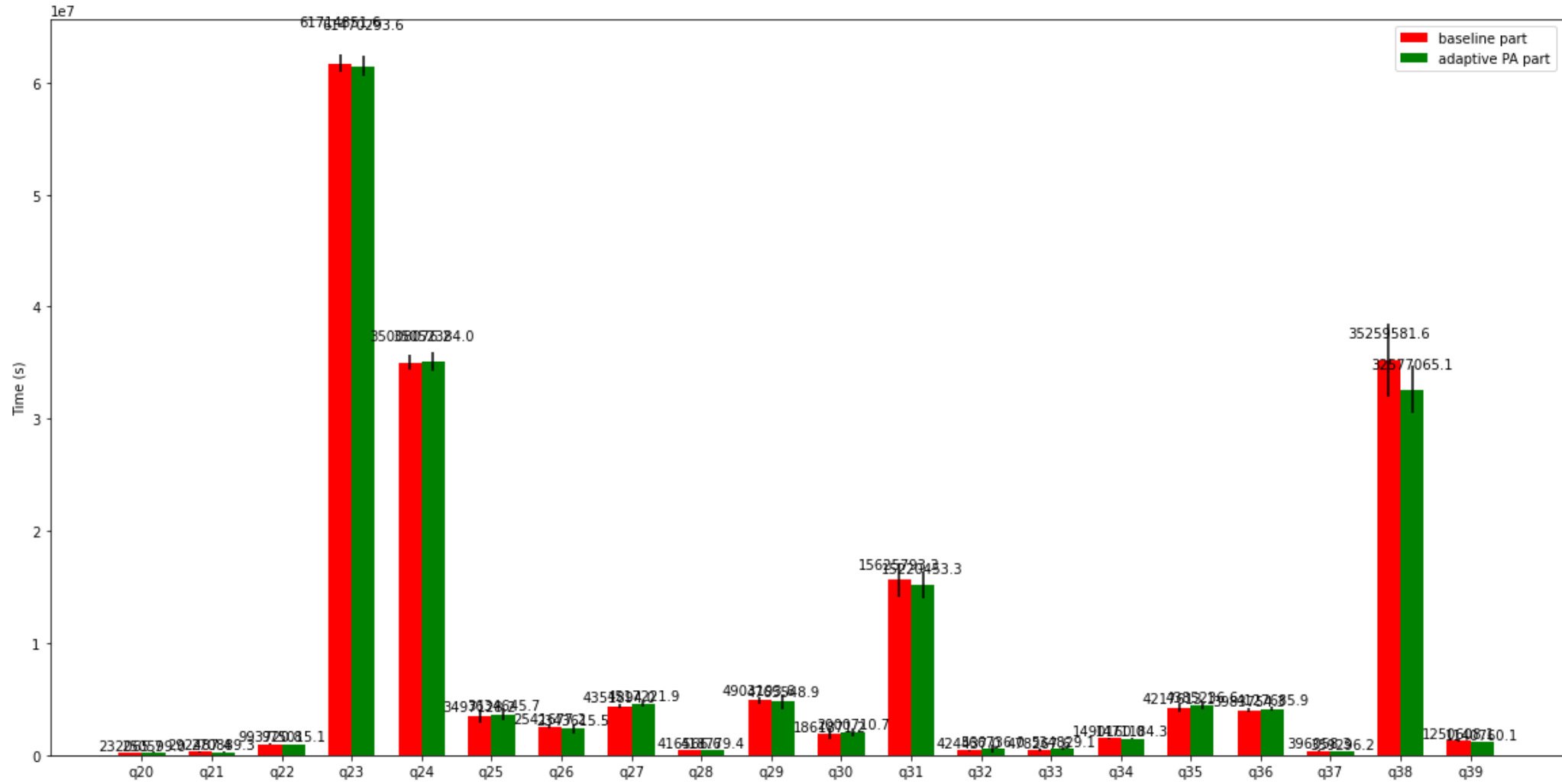


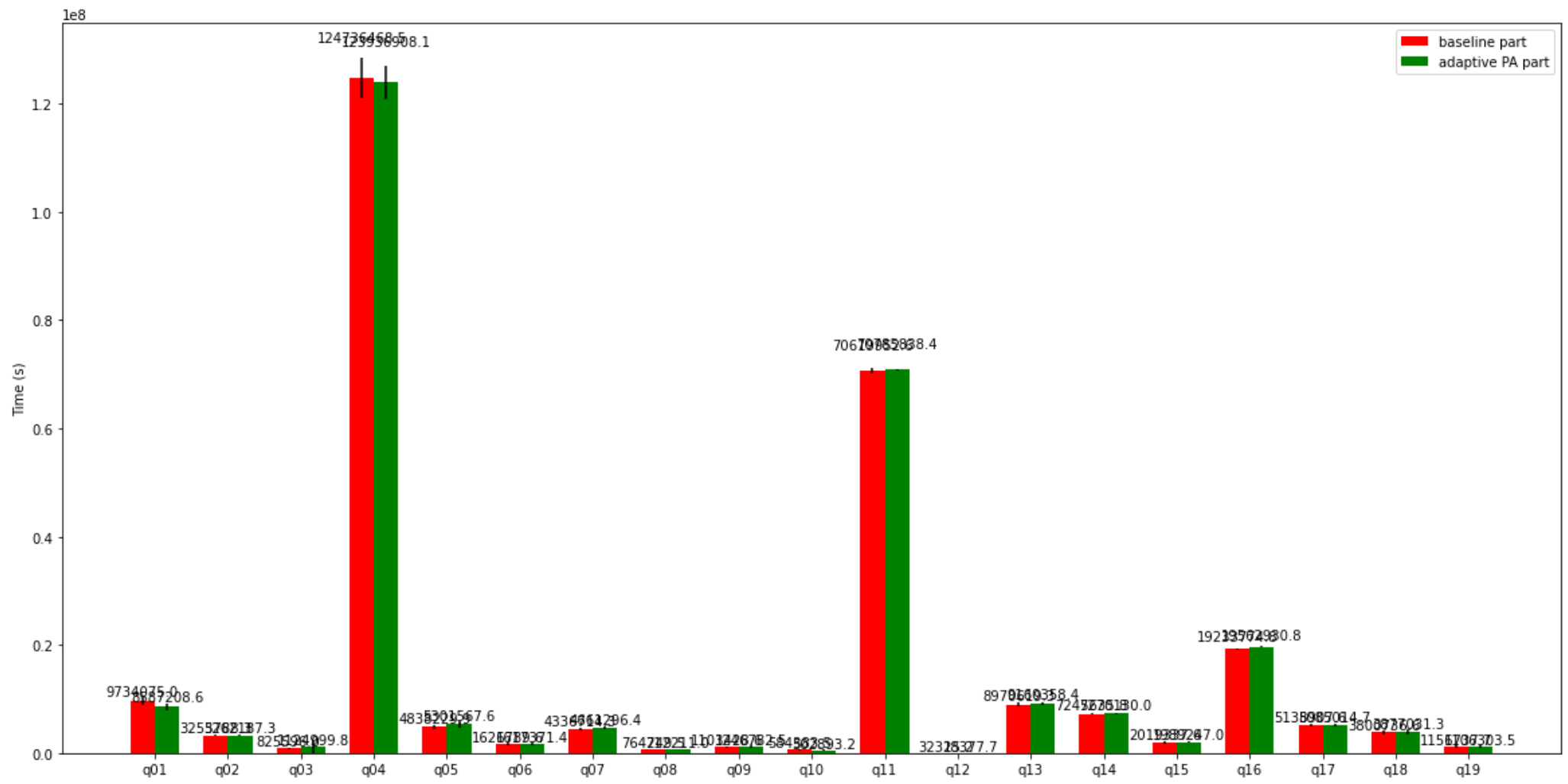


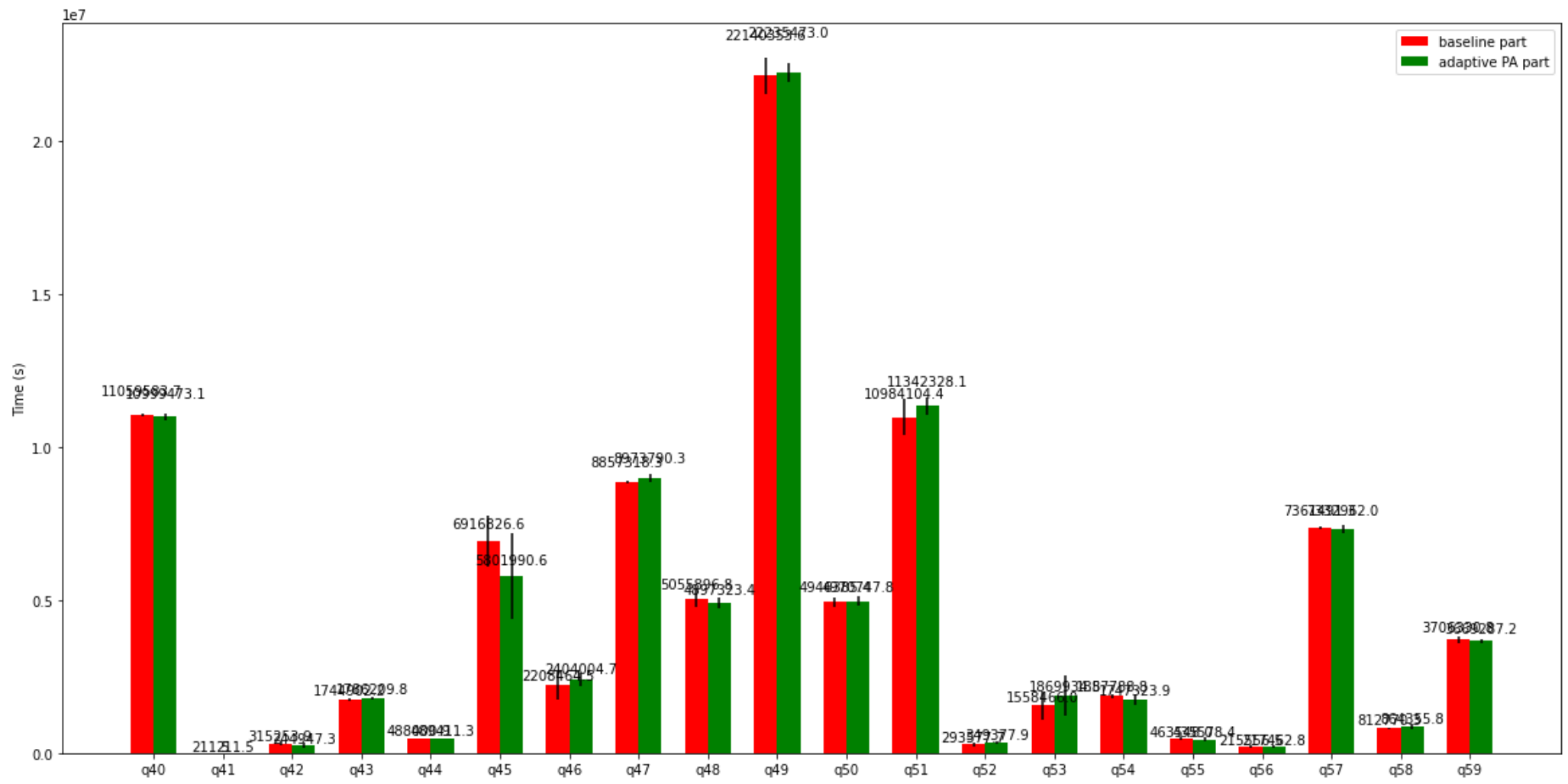
	query	baseline part mean	baseline part std.dev	adaptive PA part mean	adaptive PA part std.dev	% change	baseline part std.dev %	adaptive PA part std.dev %	p-value
14	presto/tpch: q15	9177234.71	152018.71	5686538.68	41091.46	-38.04	1.66	0.72	0.00000
19	presto/tpch: q20	37725712.14	228305.72	31596778.28	235844.02	-16.25	0.61	0.75	0.00000
7	presto/tpch: q08	21235820.27	1633369.91	20329971.98	1177897.61	-4.27	7.69	5.79	0.29634
9	presto/tpch: q10	32494663.62	1099915.68	31700177.82	531514.89	-2.44	3.38	1.68	0.14223
4	presto/tpch: q05	28201122.58	1200359.68	27692924.62	1302618.91	-1.80	4.26	4.70	0.49824

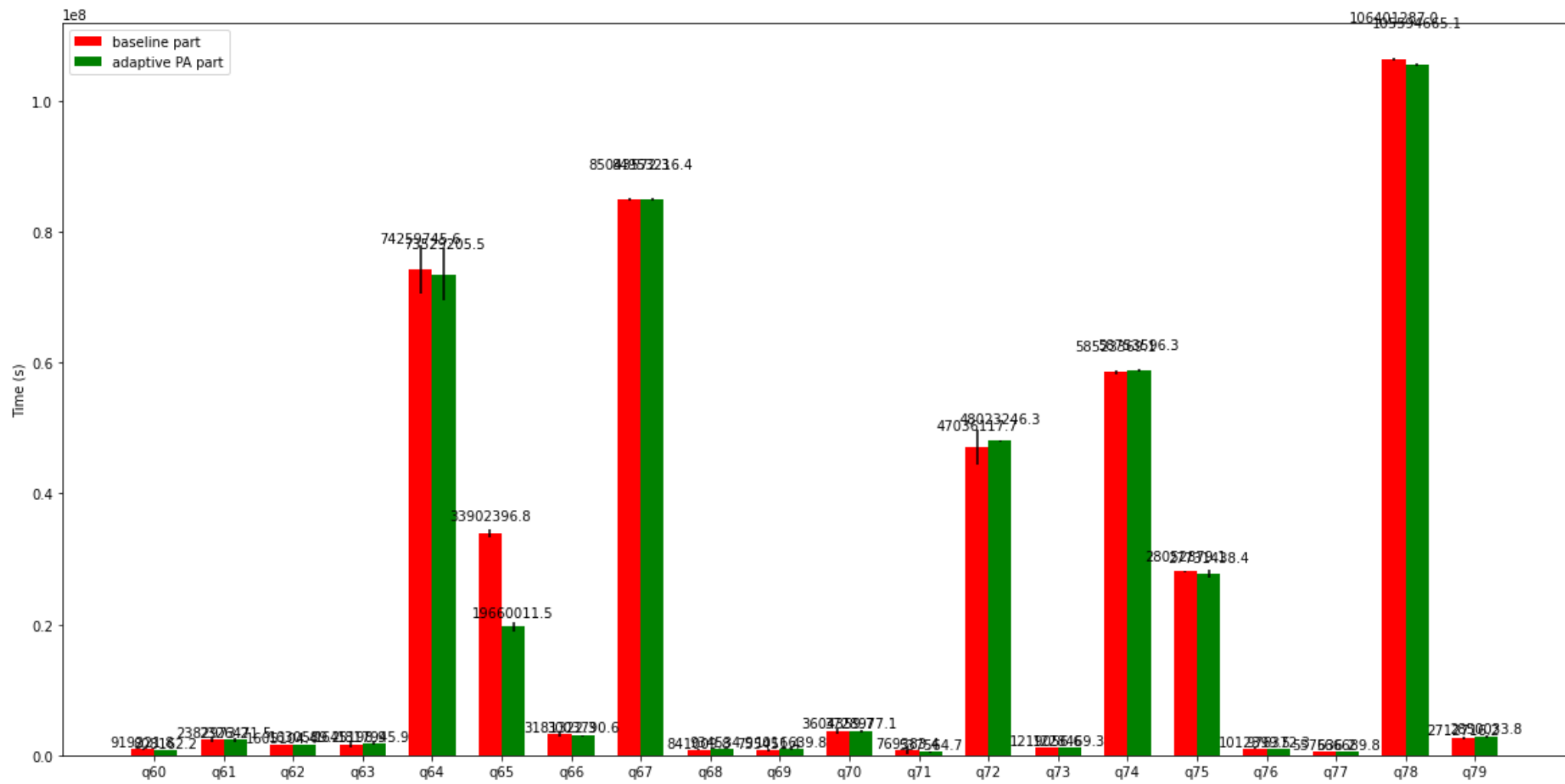
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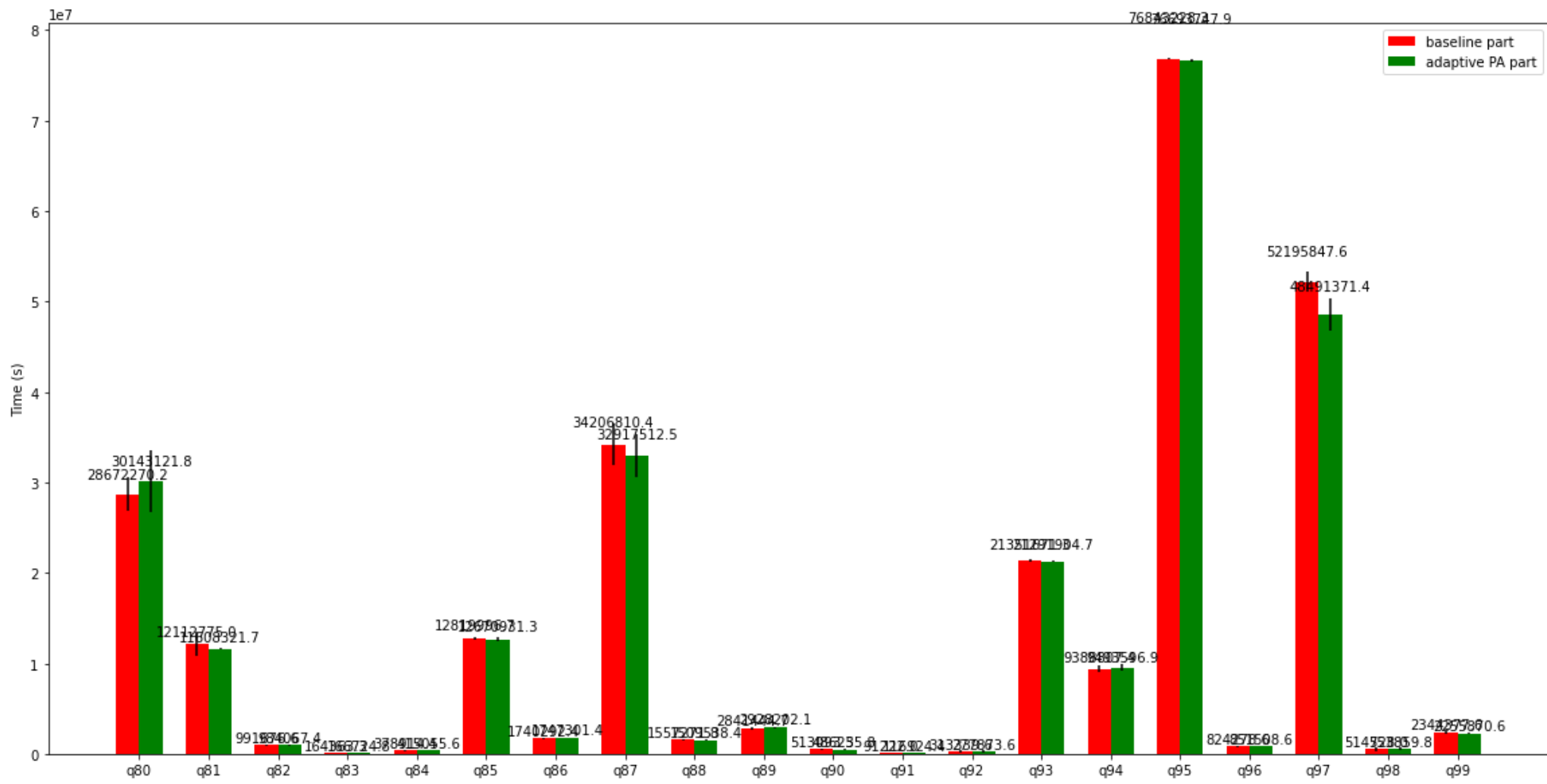
TPC-DS Comparison (Peak memory)

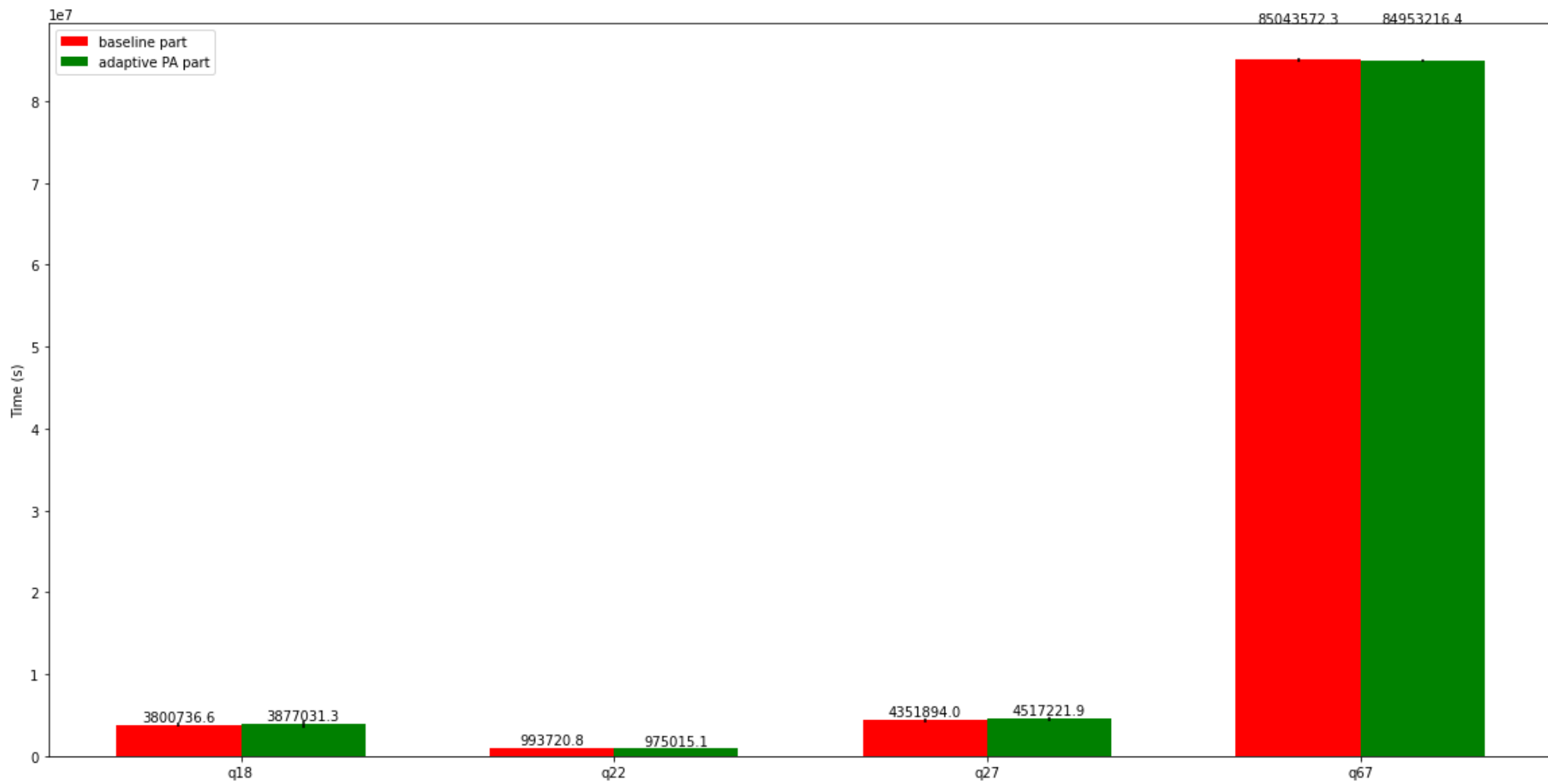












	query	baseline part mean	baseline part std.dev	adaptive PA part mean	adaptive PA part std.dev	% change	baseline part std.dev %	adaptive PA part std.dev %	p-value
64	presto/tpcds: q65	33902396.84	554095.64	19660011.49	732207.36	-42.01	1.63	3.72	0.00000
70	presto/tpcds: q71	769383.36	537013.03	537564.73	137851.71	-30.13	69.80	25.64	0.32988
41	presto/tpcds: q42	315253.95	70802.34	244947.28	78076.22	-22.30	22.46	31.87	0.13332
44	presto/tpcds: q45	6916826.55	844285.71	5801990.60	1406223.83	-16.12	12.21	24.24	0.12691
9	presto/tpcds: q10	584383.50	96094.17	502893.23	104408.66	-13.94	16.44	20.76	0.18982

	query	baseline part mean	baseline part std.dev	adaptive PA part mean	adaptive PA part std.dev	% change	baseline part std.dev %	adaptive PA part std.dev %	p-value
11	presto/tpcds:q12	32315.16	11439.38	28377.71	6561.26	-12.18	35.40	23.12	0.48135
59	presto/tpcds:q60	919221.83	83536.65	808162.25	71099.74	-12.08	9.09	8.80	0.03255
0	presto/tpcds:q01	9734074.99	782829.04	8587208.61	585765.73	-11.78	8.04	6.82	0.01658
91	presto/tpcds:q92	313339.62	144755.05	277873.59	190560.02	-11.32	46.20	68.58	0.72414
36	presto/tpcds:q37	396058.26	86113.07	359296.24	24673.25	-9.28	21.74	6.87	0.33848
38	presto/tpcds:q39	1250608.05	29445.66	1140760.14	10063.73	-8.78	2.35	0.88	0.00001
25	presto/tpcds:q26	2541677.19	175546.19	2343615.54	387619.11	-7.79	6.91	16.54	0.28080
37	presto/tpcds:q38	35259581.56	3264238.70	32577065.11	2111051.40	-7.61	9.26	6.48	0.12185
20	presto/tpcds:q21	292487.40	31385.92	270889.30	25069.38	-7.38	10.73	9.25	0.21720
96	presto/tpcds:q97	52195847.58	1095894.16	48491371.40	1778850.24	-7.10	2.10	3.67	0.00146
7	presto/tpcds:q08	764249.45	43156.21	712210.98	47353.20	-6.81	5.65	6.65	0.07468
54	presto/tpcds:q55	463547.99	37909.50	435578.36	69748.26	-6.03	8.18	16.01	0.40834
53	presto/tpcds:q54	1857788.76	75100.91	1747323.90	159272.86	-5.95	4.04	9.12	0.15540
65	presto/tpcds:q66	3181322.28	385457.55	3003790.56	103027.60	-5.58	12.12	3.43	0.30132
89	presto/tpcds:q90	513093.29	71562.26	486255.82	48068.74	-5.23	13.95	9.89	0.46334
18	presto/tpcds:q19	1156737.70	241566.57	1106303.48	265217.58	-4.36	20.88	23.97	0.73770
80	presto/tpcds:q81	12112774.95	1350210.78	11608321.65	62664.68	-4.16	11.15	0.54	0.38214
98	presto/tpcds:q99	2344377.58	85484.99	2255870.62	87808.18	-3.78	3.65	3.89	0.10731
86	presto/tpcds:q87	34206810.39	2285629.87	32917512.46	2376616.11	-3.77	6.68	7.22	0.36076

	query	baseline part mean	baseline part std.dev	adaptive PA part mean	adaptive PA part std.dev	% change	baseline part std.dev %	adaptive PA part std.dev %	p-value
75	presto/tpcds:q76	1012399.52	88865.58	976372.28	60079.31	-3.56	8.78	6.15	0.42987
47	presto/tpcds:q48	5055896.79	282987.94	4897323.37	185806.80	-3.14	5.60	3.79	0.27794
87	presto/tpcds:q88	1557271.84	86158.90	1509538.44	81402.99	-3.07	5.53	5.39	0.34719
28	presto/tpcds:q29	4903193.61	304270.84	4765548.92	643672.91	-2.81	6.21	13.51	0.64598
30	presto/tpcds:q31	15625793.34	1503391.86	15220453.32	1198148.94	-2.59	9.62	7.87	0.61675
60	presto/tpcds:q61	2382973.17	412578.77	2326471.49	362169.45	-2.37	17.31	15.57	0.80607
21	presto/tpcds:q22	993720.79	40714.42	975015.12	20183.99	-1.88	4.10	2.07	0.33709
14	presto/tpcds:q15	2019337.63	262242.02	1989247.02	170784.31	-1.49	12.99	8.59	0.81856
33	presto/tpcds:q34	1490159.97	55835.93	1471184.31	59187.02	-1.27	3.75	4.02	0.58045
84	presto/tpcds:q85	12819996.68	148449.39	12670931.30	206110.50	-1.16	1.16	1.63	0.18112
74	presto/tpcds:q75	28052879.07	154534.17	27731438.35	552497.52	-1.15	0.55	1.99	0.19993
16	presto/tpcds:q17	5138907.63	178831.47	5085014.74	215494.53	-1.05	3.48	4.24	0.64747
58	presto/tpcds:q59	3706330.80	113726.97	3669287.21	60661.40	-1.00	3.07	1.65	0.49751
63	presto/tpcds:q64	74259745.58	3803928.31	73529205.49	4103473.29	-0.98	5.12	5.58	0.75570
81	presto/tpcds:q82	991676.63	86188.79	984067.42	93194.14	-0.77	8.69	9.47	0.88618
77	presto/tpcds:q78	106401286.96	149859.35	105594665.08	185891.88	-0.76	0.14	0.18	0.00001
3	presto/tpcds:q04	124736468.49	3664786.45	123936908.06	3086764.81	-0.64	2.94	2.49	0.69134
5	presto/tpcds:q06	1626789.57	240301.05	1617371.44	250093.50	-0.58	14.77	15.46	0.94828
39	presto/tpcds:q40	11059583.72	55264.67	10999473.13	116036.32	-0.54	0.50	1.05	0.27863

	query	baseline part mean	baseline part std.dev	adaptive PA part mean	adaptive PA part std.dev	% change	baseline part std.dev %	adaptive PA part std.dev %	p-value
22	presto/tpcds:q23	61714851.60	791250.02	61470293.57	909370.87	-0.40	1.28	1.48	0.62996
56	presto/tpcds:q57	7361491.28	42421.32	7332962.02	126853.82	-0.39	0.58	1.73	0.61274
92	presto/tpcds:q93	21351671.34	138455.33	21291904.67	116238.38	-0.28	0.65	0.55	0.43689
94	presto/tpcds:q95	76843228.31	83466.09	76693747.94	167585.65	-0.19	0.11	0.22	0.07900
66	presto/tpcds:q67	85043572.31	222466.02	84953216.43	194415.96	-0.11	0.26	0.23	0.47104
40	presto/tpcds:q41	211.49	0.00	211.49	0.00	0.00	0.00	0.00	nan
23	presto/tpcds:q24	35008076.19	662595.21	35052384.02	843081.77	0.13	1.89	2.41	0.92138
1	presto/tpcds:q02	3255788.31	58526.53	3262187.33	126551.13	0.20	1.80	3.88	0.91272
10	presto/tpcds:q11	70619952.55	417099.35	70785838.42	192515.16	0.23	0.59	0.27	0.39718
43	presto/tpcds:q44	488000.89	640.73	489411.26	2451.36	0.29	0.13	0.50	0.20263
13	presto/tpcds:q14	7245635.77	108349.94	7270130.05	57431.67	0.34	1.50	0.79	0.63521
73	presto/tpcds:q74	58523369.13	246583.51	58753596.32	187619.49	0.39	0.42	0.32	0.09877
85	presto/tpcds:q86	1740292.36	80040.23	1747301.41	54997.47	0.40	4.60	3.15	0.86320
48	presto/tpcds:q49	22140353.64	579836.98	22235473.00	306510.01	0.43	2.62	1.38	0.72978
49	presto/tpcds:q50	4946385.37	149877.41	4970747.84	157106.35	0.49	3.03	3.16	0.78904
27	presto/tpcds:q28	416566.63	4648.63	418779.39	7533.80	0.53	1.12	1.80	0.55403
72	presto/tpcds:q73	1219056.58	18957.71	1228469.26	13846.57	0.77	1.56	1.13	0.34920
55	presto/tpcds:q56	215556.54	33739.43	217462.84	36905.19	0.88	15.65	16.97	0.92744
93	presto/tpcds:q94	9388807.43	375477.40	9493596.95	364575.14	1.12	4.00	3.84	0.63440

	query	baseline part mean	baseline part std.dev	adaptive PA part mean	adaptive PA part std.dev	% change	baseline part std.dev %	adaptive PA part std.dev %	p-value
46	presto/tpcds:q47	8857318.30	40207.17	8973790.31	127205.76	1.31	0.45	1.42	0.05818
82	presto/tpcds:q83	164363.26	12011.06	166724.79	23611.84	1.44	7.31	14.16	0.83154
61	presto/tpcds:q62	1605104.38	59782.73	1630589.21	17103.89	1.59	3.72	1.05	0.33909
76	presto/tpcds:q77	557636.19	48758.43	566689.83	78955.93	1.62	8.74	13.93	0.81595
15	presto/tpcds:q16	19233774.83	131266.34	19562930.76	138073.24	1.71	0.68	0.71	0.00174
17	presto/tpcds:q18	3800736.57	264424.21	3877031.25	439824.96	2.01	6.96	11.34	0.72332
71	presto/tpcds:q72	47036117.72	2675365.91	48023246.28	46543.62	2.10	5.69	0.10	0.38743
12	presto/tpcds:q13	8970619.25	358241.62	9160358.42	273538.70	2.12	3.99	2.99	0.32677
42	presto/tpcds:q43	1744902.18	40743.97	1786209.82	54970.20	2.37	2.34	3.08	0.17000
88	presto/tpcds:q89	2841444.71	124457.37	2928202.07	86145.28	3.05	4.38	2.94	0.19061
50	presto/tpcds:q51	10984104.38	601404.64	11342328.12	276001.45	3.26	5.48	2.43	0.21431
95	presto/tpcds:q96	824278.60	46391.00	851508.58	51967.59	3.30	5.63	6.10	0.36090
69	presto/tpcds:q70	3604359.74	403468.28	3728977.11	217933.94	3.46	11.19	5.84	0.52069
35	presto/tpcds:q36	3983754.33	191825.67	4127685.87	164077.84	3.61	4.82	3.98	0.19273
26	presto/tpcds:q27	4351893.99	189812.82	4517221.93	242761.58	3.80	4.36	5.37	0.21814
24	presto/tpcds:q25	3497128.17	600769.63	3634645.66	509647.21	3.93	17.18	14.02	0.67803
34	presto/tpcds:q35	4217613.14	379107.73	4385236.58	320871.37	3.97	8.99	7.32	0.42770
78	presto/tpcds:q79	2712716.22	227495.80	2850033.80	213000.72	5.06	8.39	7.47	0.30580
79	presto/tpcds:q80	28672270.16	1835530.70	30143121.77	3463192.63	5.13	6.40	11.49	0.37963


```
25%      -3
50%       0
75%       3
max       36
Name: % change, dtype: float64
```