

Out[9353]:

Show Code

FAILED QUERIES

semi before (unpart)

	benchmark	query	mean_duration	std_dev
0	presto/tpch	q15	32337.000000	51027.857098
1	presto/tpch	q20	1020.166667	1.169045
2	presto/tpch	q06	6386.666667	13147.554718

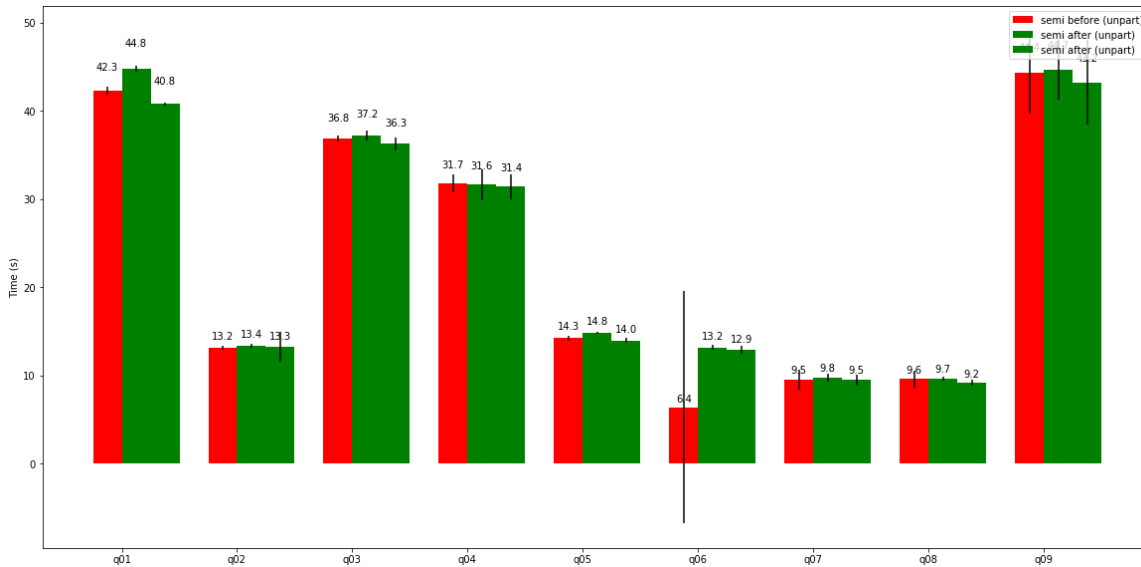
semi after (unpart)

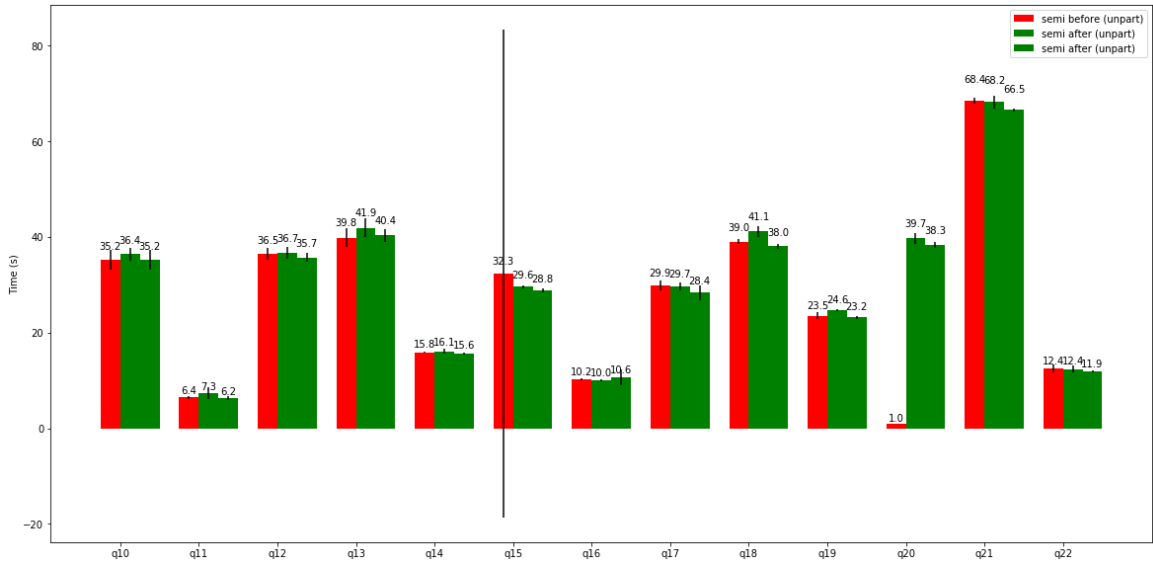
benchmark	query	mean_duration	std_dev
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semi after (unpart)

benchmark	query	mean_duration	std_dev
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TPC-H Comparison (DURATION)

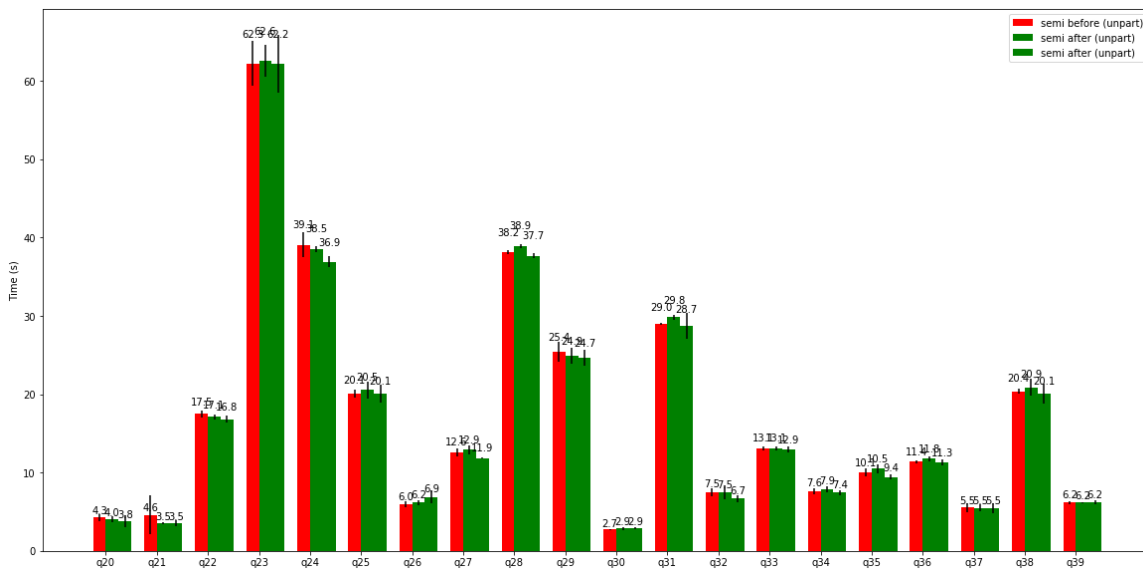
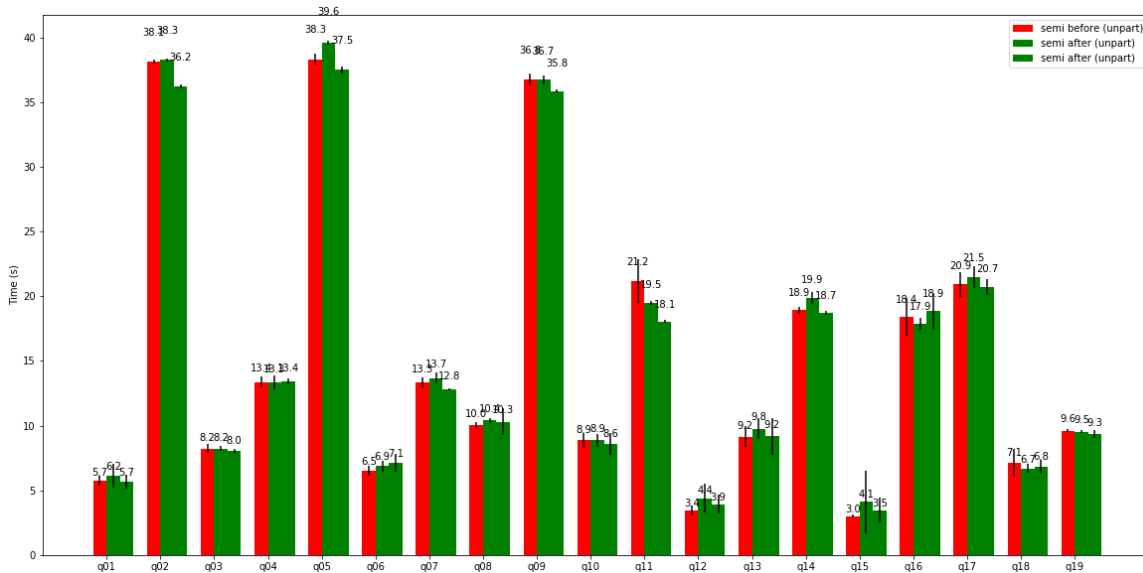


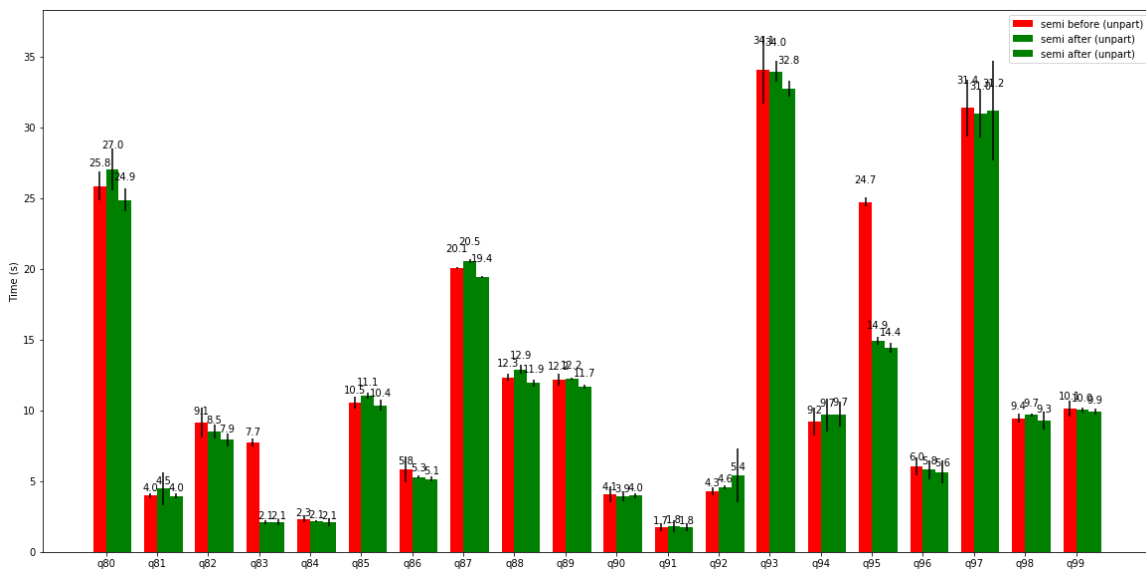
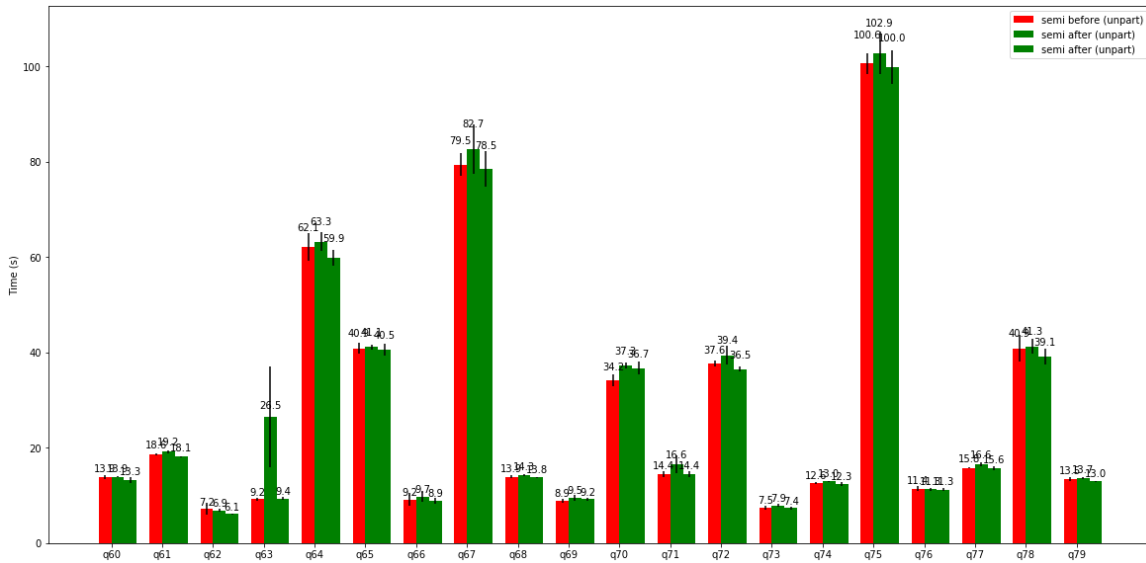
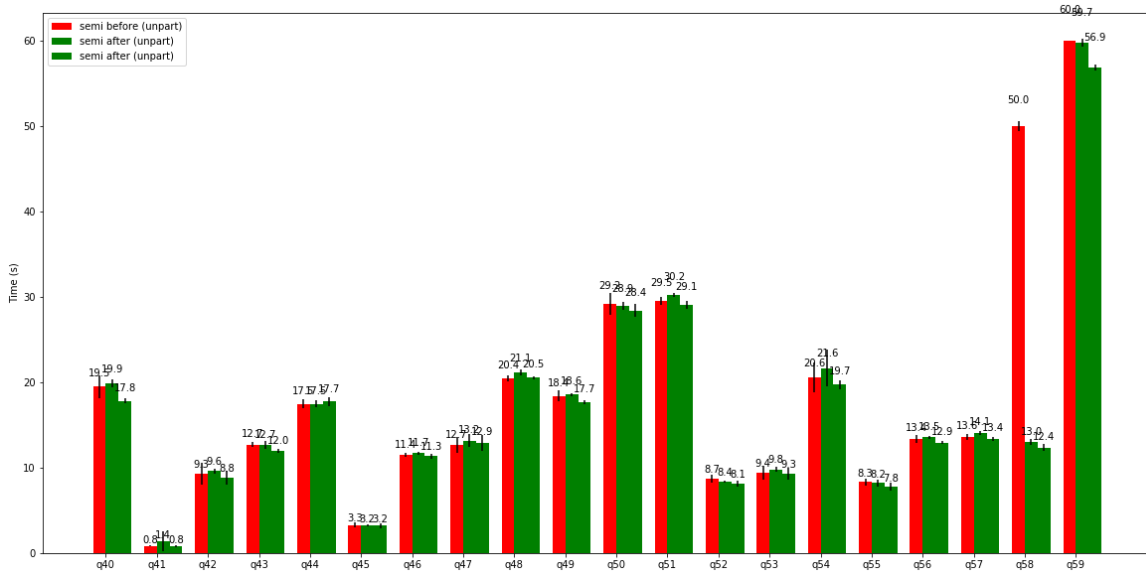


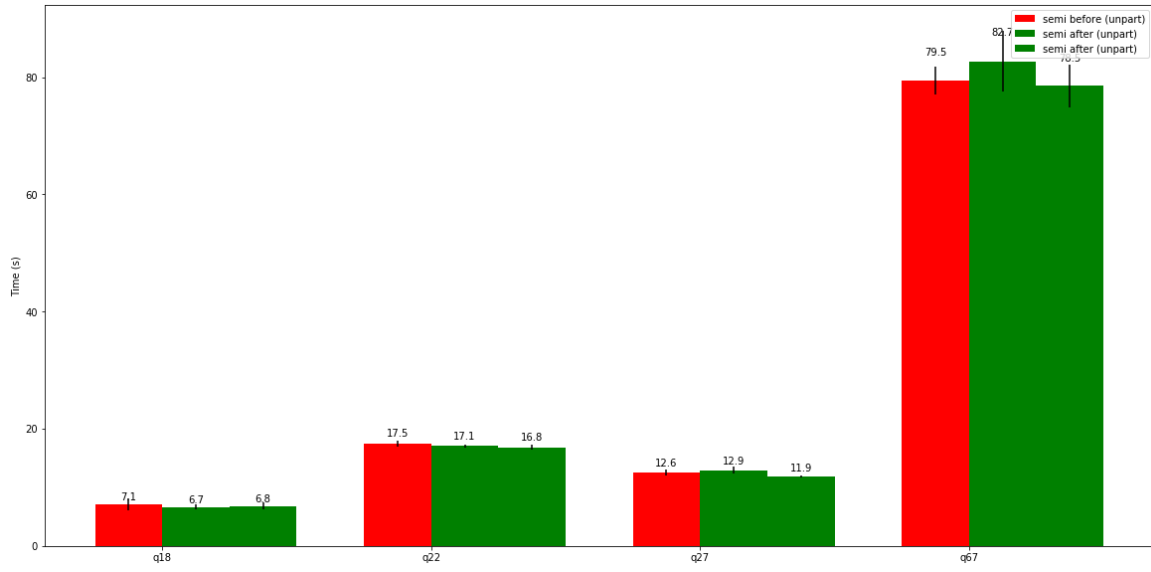
	query	semi before (unpart) mean	semi before (unpart) std.dev	semi after (unpart) mean	semi after (unpart) std.dev	semi after (unpart) mean	semi after (unpart) std.dev
0	presto/tpch: q01	42.273167	0.427987	40.797167	0.190325	40.797167	0.190325
1	presto/tpch: q02	13.167500	0.205217	13.256000	1.658124	13.256000	1.658124
2	presto/tpch: q03	36.819000	0.334804	36.290167	0.739458	36.290167	0.739458
3	presto/tpch: q04	31.740000	1.025184	31.386500	1.420427	31.386500	1.420427
4	presto/tpch: q05	14.260667	0.279403	13.957167	0.259896	13.957167	0.259896
5	presto/tpch: q06	6.386667	13.147555	12.891667	0.425623	12.891667	0.425623
6	presto/tpch: q07	9.527500	1.149913	9.499667	0.636947	9.499667	0.636947
7	presto/tpch: q08	9.603667	0.932774	9.154167	0.316032	9.154167	0.316032
8	presto/tpch: q09	44.365833	4.712047	43.247000	4.758174	43.247000	4.758174
9	presto/tpch: q10	35.202167	2.033215	35.236000	2.026019	35.236000	2.026019
10	presto/tpch: q11	6.427000	0.291457	6.234333	0.413803	6.234333	0.413803
11	presto/tpch: q12	36.492833	1.214165	35.741667	0.896423	35.741667	0.896423
12	presto/tpch: q13	39.846167	1.918890	40.351833	1.338278	40.351833	1.338278
13	presto/tpch: q14	15.841500	0.077709	15.632667	0.225051	15.632667	0.225051
14	presto/tpch: q15	32.337000	51.027857	28.803667	0.426794	28.803667	0.426794
15	presto/tpch: q16	10.239167	0.261940	10.598500	1.676149	10.598500	1.676149
16	presto/tpch: q17	29.880333	1.001454	28.391667	1.553850	28.391667	1.553850
17	presto/tpch: q18	39.036167	0.582238	38.029667	0.449511	38.029667	0.449511
18	presto/tpch: q19	23.516000	0.722481	23.217500	0.339011	23.217500	0.339011

	query	semi before (unpart) mean	semi before (unpart) std.dev	semi after (unpart) mean	semi after (unpart) std.dev	semi after (unpart) mean	semi after (unpart) std.dev
19	presto/tpch: q20	1.020167	0.001169	38.342167	0.574559	38.342167	0.574559
20	presto/tpch: q21	68.413167	0.588306	66.517833	0.393448	66.517833	0.393448
21	presto/tpch: q22	12.422833	0.840367	11.869167	0.140831	11.869167	0.140831

TPC-DS Comparison (DURATION)







	query	semi before (unpart) mean	semi before (unpart) std.dev	semi after (unpart) mean	semi after (unpart) std.dev	semi after (unpart) mean	semi after (unpart) std.dev
0	presto/tpcds: q01	5.723500	0.373468	5.663500	0.567846	5.663500	0.567846
1	presto/tpcds: q02	38.109500	0.152056	36.223833	0.153289	36.223833	0.153289
2	presto/tpcds: q03	8.223833	0.353835	8.048333	0.169149	8.048333	0.169149
3	presto/tpcds: q04	13.367667	0.398456	13.403167	0.222833	13.403167	0.222833
4	presto/tpcds: q05	38.320000	0.452065	37.490833	0.257858	37.490833	0.257858
5	presto/tpcds: q06	6.505833	0.393898	7.106167	0.677622	7.106167	0.677622
6	presto/tpcds: q07	13.317667	0.414869	12.808667	0.105602	12.808667	0.105602
7	presto/tpcds: q08	10.013667	0.238627	10.288333	1.035512	10.288333	1.035512
8	presto/tpcds: q09	36.761500	0.481461	35.835500	0.118593	35.835500	0.118593
9	presto/tpcds: q10	8.863000	0.554144	8.557000	0.847453	8.557000	0.847453
10	presto/tpcds: q11	21.163667	1.709463	18.055667	0.138027	18.055667	0.138027
11	presto/tpcds: q12	3.443000	0.398250	3.903833	0.727167	3.903833	0.727167
12	presto/tpcds: q13	9.154833	0.798062	9.174833	1.406119	9.174833	1.406119
13	presto/tpcds: q14	18.921500	0.283639	18.740167	0.158637	18.740167	0.158637
14	presto/tpcds: q15	3.015667	0.086398	3.463667	0.970396	3.463667	0.970396
15	presto/tpcds: q16	18.423333	1.472687	18.876667	1.380891	18.876667	1.380891
16	presto/tpcds: q17	20.928333	0.955339	20.684667	0.600668	20.684667	0.600668
17	presto/tpcds: q18	7.121667	1.038107	6.840000	0.529908	6.840000	0.529908
18	presto/tpcds: q19	9.616167	0.125008	9.345833	0.316464	9.345833	0.316464

	query	semi before (unpart) mean	semi before (unpart) std.dev	semi after (unpart) mean	semi after (unpart) std.dev	semi after (unpart) mean	semi after (unpart) std.dev
19	presto/tpcds: q20	4.252667	0.489713	3.789333	0.822267	3.789333	0.822267
20	presto/tpcds: q21	4.613667	2.502783	3.518167	0.418875	3.518167	0.418875
21	presto/tpcds: q22	17.492833	0.474656	16.835000	0.397967	16.835000	0.397967
22	presto/tpcds: q23	62.269500	2.830815	62.202167	3.685204	62.202167	3.685204
23	presto/tpcds: q24	39.107667	1.622230	36.942333	0.667197	36.942333	0.667197
24	presto/tpcds: q25	20.100000	0.552928	20.054500	1.157252	20.054500	1.157252
25	presto/tpcds: q26	5.952000	0.358664	6.898167	0.781480	6.898167	0.781480
26	presto/tpcds: q27	12.584833	0.530139	11.863833	0.101095	11.863833	0.101095
27	presto/tpcds: q28	38.155333	0.220024	37.706500	0.360715	37.706500	0.360715
28	presto/tpcds: q29	25.383833	1.265615	24.666667	1.056983	24.666667	1.056983
29	presto/tpcds: q30	2.712500	0.113690	2.907500	0.181963	2.907500	0.181963
30	presto/tpcds: q31	29.009500	0.098669	28.730833	1.704284	28.730833	1.704284
31	presto/tpcds: q32	7.534667	0.521203	6.698500	0.432467	6.698500	0.432467
32	presto/tpcds: q33	13.080833	0.264395	12.909667	0.391844	12.909667	0.391844
33	presto/tpcds: q34	7.615667	0.334101	7.419833	0.280322	7.419833	0.280322
34	presto/tpcds: q35	10.069667	0.513835	9.433000	0.295761	9.433000	0.295761
35	presto/tpcds: q36	11.383833	0.204855	11.301667	0.441777	11.301667	0.441777
36	presto/tpcds: q37	5.517333	0.543927	5.498000	0.648555	5.498000	0.648555
37	presto/tpcds: q38	20.383833	0.301982	20.066000	1.312763	20.066000	1.312763

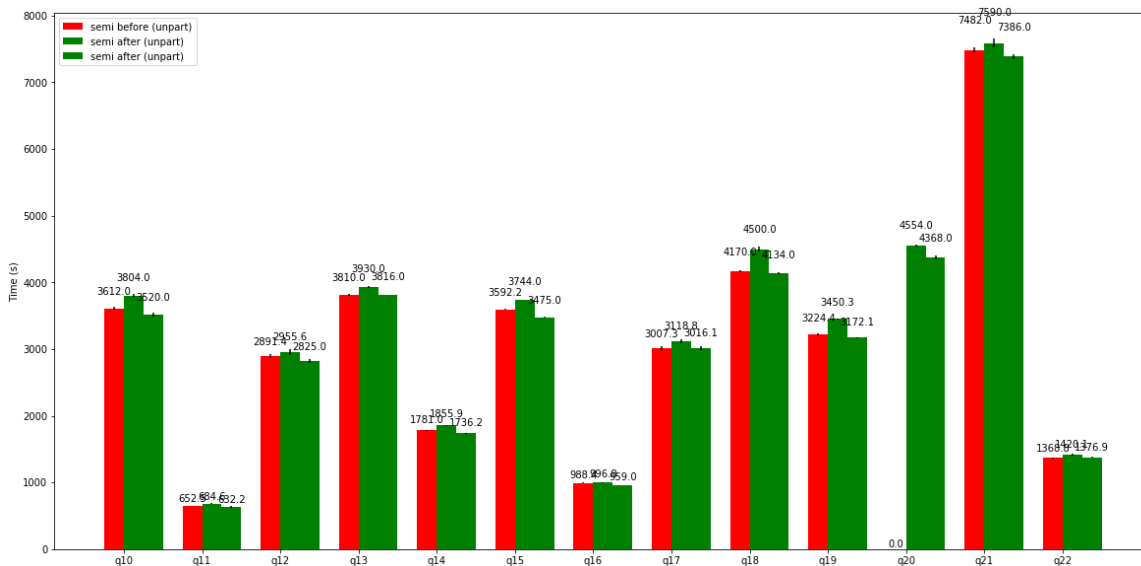
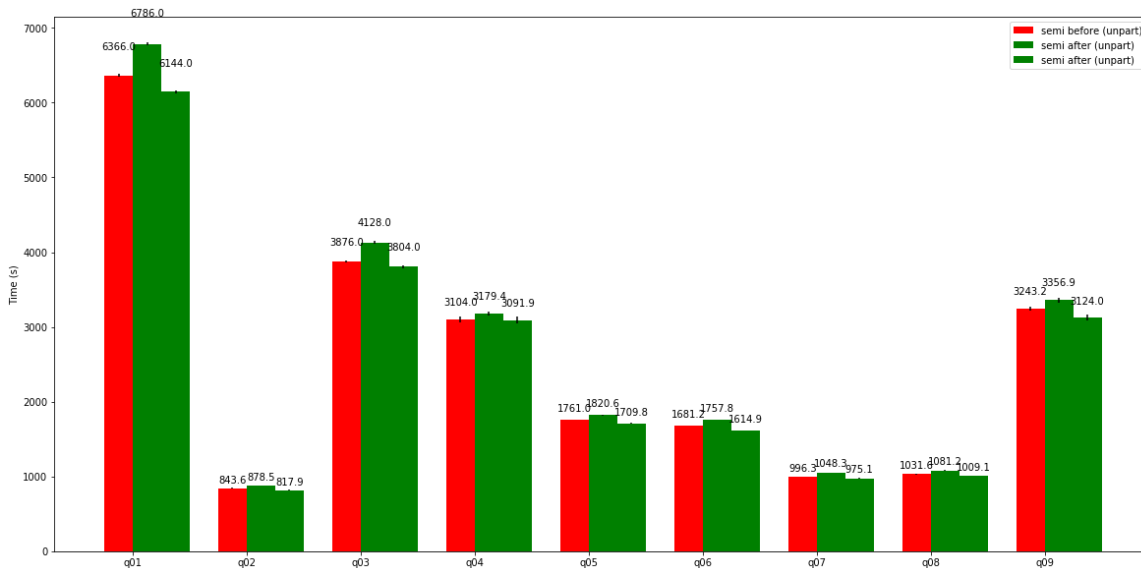
	query	semi before (unpart) mean	semi before (unpart) std.dev	semi after (unpart) mean	semi after (unpart) std.dev	semi after (unpart) mean	semi after (unpart) std.dev
38	presto/tpcds: q39	6.162333	0.162021	6.233333	0.283949	6.233333	0.283949
39	presto/tpcds: q40	19.462500	1.307942	17.802500	0.286147	17.802500	0.286147
40	presto/tpcds: q41	0.833000	0.082261	0.830000	0.105396	0.830000	0.105396
41	presto/tpcds: q42	9.283833	1.291819	8.786833	0.838789	8.786833	0.838789
42	presto/tpcds: q43	12.684667	0.314782	11.955667	0.245216	11.955667	0.245216
43	presto/tpcds: q44	17.452333	0.514408	17.743167	0.547435	17.743167	0.547435
44	presto/tpcds: q45	3.284167	0.338865	3.186167	0.324425	3.186167	0.324425
45	presto/tpcds: q46	11.450000	0.216518	11.324333	0.284847	11.324333	0.284847
46	presto/tpcds: q47	12.659333	0.903277	12.935500	0.925530	12.935500	0.925530
47	presto/tpcds: q48	20.392167	0.350925	20.525167	0.213056	20.525167	0.213056
48	presto/tpcds: q49	18.394333	0.623993	17.665500	0.217627	17.665500	0.217627
49	presto/tpcds: q50	29.183167	1.246774	28.406667	0.804874	28.406667	0.804874
50	presto/tpcds: q51	29.505000	0.452794	29.061167	0.439788	29.061167	0.439788
51	presto/tpcds: q52	8.742667	0.478575	8.132333	0.305026	8.132333	0.305026
52	presto/tpcds: q53	9.411000	0.830330	9.279000	0.647179	9.279000	0.647179
53	presto/tpcds: q54	20.579333	1.731394	19.694500	0.573043	19.694500	0.573043
54	presto/tpcds: q55	8.306167	0.437961	7.784333	0.442930	7.784333	0.442930
55	presto/tpcds: q56	13.364833	0.496253	12.921167	0.181971	12.921167	0.181971
56	presto/tpcds: q57	13.553333	0.350830	13.387500	0.249510	13.387500	0.249510

	query	semi before (unpart) mean	semi before (unpart) std.dev	semi after (unpart) mean	semi after (unpart) std.dev	semi after (unpart) mean	semi after (unpart) std.dev
57	presto/tpcds: q58	49.972000	0.553585	12.355833	0.420586	12.355833	0.420586
58	presto/tpcds: q59	59.995667	0.041572	56.870167	0.381134	56.870167	0.381134
59	presto/tpcds: q60	13.887667	0.451490	13.258000	0.578627	13.258000	0.578627
60	presto/tpcds: q61	18.618667	0.302536	18.123167	0.151636	18.123167	0.151636
61	presto/tpcds: q62	7.237667	1.215338	6.148167	0.107843	6.148167	0.107843
62	presto/tpcds: q63	9.198500	0.333638	9.390500	0.318031	9.390500	0.318031
63	presto/tpcds: q64	62.095667	2.898491	59.858000	1.610953	59.858000	1.610953
64	presto/tpcds: q65	40.865333	1.154212	40.512833	1.236480	40.512833	1.236480
65	presto/tpcds: q66	9.174667	1.316290	8.893000	0.650671	8.893000	0.650671
66	presto/tpcds: q67	79.460000	2.383092	78.526333	3.635204	78.526333	3.635204
67	presto/tpcds: q68	13.937333	0.296524	13.764667	0.148097	13.764667	0.148097
68	presto/tpcds: q69	8.900333	0.474507	9.207167	0.286155	9.207167	0.286155
69	presto/tpcds: q70	34.161667	1.264338	36.704333	1.367093	36.704333	1.367093
70	presto/tpcds: q71	14.401833	0.629511	14.391500	0.639721	14.391500	0.639721
71	presto/tpcds: q72	37.606167	0.637951	36.547667	0.504914	36.547667	0.504914
72	presto/tpcds: q73	7.477500	0.435258	7.368000	0.329612	7.368000	0.329612
73	presto/tpcds: q74	12.562333	0.171951	12.348667	0.372094	12.348667	0.372094
74	presto/tpcds: q75	100.612000	2.245861	99.964833	3.522840	99.964833	3.522840
75	presto/tpcds: q76	11.427000	0.559644	11.253833	0.319298	11.253833	0.319298

	query	semi before (unpart) mean	semi before (unpart) std.dev	semi after (unpart) mean	semi after (unpart) std.dev	semi after (unpart) mean	semi after (unpart) std.dev
76	presto/tpcds: q77	15.817167	0.174491	15.629167	0.400649	15.629167	0.400649
77	presto/tpcds: q78	40.891833	2.772192	39.141000	1.759119	39.141000	1.759119
78	presto/tpcds: q79	13.496167	0.437051	12.980833	0.135108	12.980833	0.135108
79	presto/tpcds: q80	25.848333	1.024290	24.879500	0.801448	24.879500	0.801448
80	presto/tpcds: q81	3.967500	0.168638	3.956833	0.166031	3.956833	0.166031
81	presto/tpcds: q82	9.145667	1.037236	7.912333	0.476355	7.912333	0.476355
82	presto/tpcds: q83	7.721833	0.286479	2.104500	0.236591	2.104500	0.236591
83	presto/tpcds: q84	2.331167	0.239138	2.108167	0.257090	2.108167	0.257090
84	presto/tpcds: q85	10.536000	0.410870	10.369500	0.406193	10.369500	0.406193
85	presto/tpcds: q86	5.817333	0.924903	5.144333	0.191261	5.144333	0.191261
86	presto/tpcds: q87	20.063333	0.099705	19.420333	0.073427	19.420333	0.073427
87	presto/tpcds: q88	12.339167	0.238458	11.941500	0.243983	11.941500	0.243983
88	presto/tpcds: q89	12.163667	0.445847	11.672667	0.140477	11.672667	0.140477
89	presto/tpcds: q90	4.076667	0.564981	3.979500	0.189756	3.979500	0.189756
90	presto/tpcds: q91	1.738500	0.262315	1.761500	0.296524	1.761500	0.296524
91	presto/tpcds: q92	4.290000	0.303973	5.374167	1.901172	5.374167	1.901172
92	presto/tpcds: q93	34.082167	2.378910	32.758833	0.570022	32.758833	0.570022
93	presto/tpcds: q94	9.201000	0.983490	9.737667	0.888296	9.737667	0.888296
94	presto/tpcds: q95	24.722000	0.311097	14.419000	0.348877	14.419000	0.348877

	query	semi before (unpart) mean	semi before (unpart) std.dev	semi after (unpart) mean	semi after (unpart) std.dev	semi after (unpart) mean	semi after (unpart) std.dev
95	presto/tpcds: q96	6.040667	0.640024	5.637333	0.805196	5.637333	0.805196
96	presto/tpcds: q97	31.380333	2.012125	31.197333	3.534138	31.197333	3.534138
97	presto/tpcds: q98	9.444667	0.320533	9.292000	0.618575	9.292000	0.618575
98	presto/tpcds: q99	10.119500	0.565699	9.898167	0.201165	9.898167	0.201165

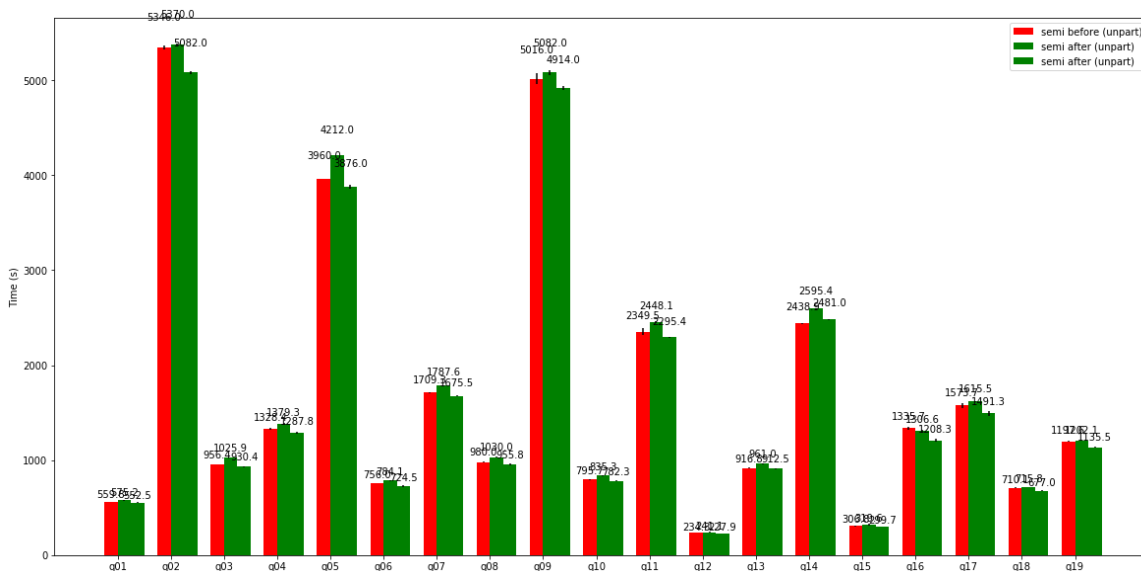
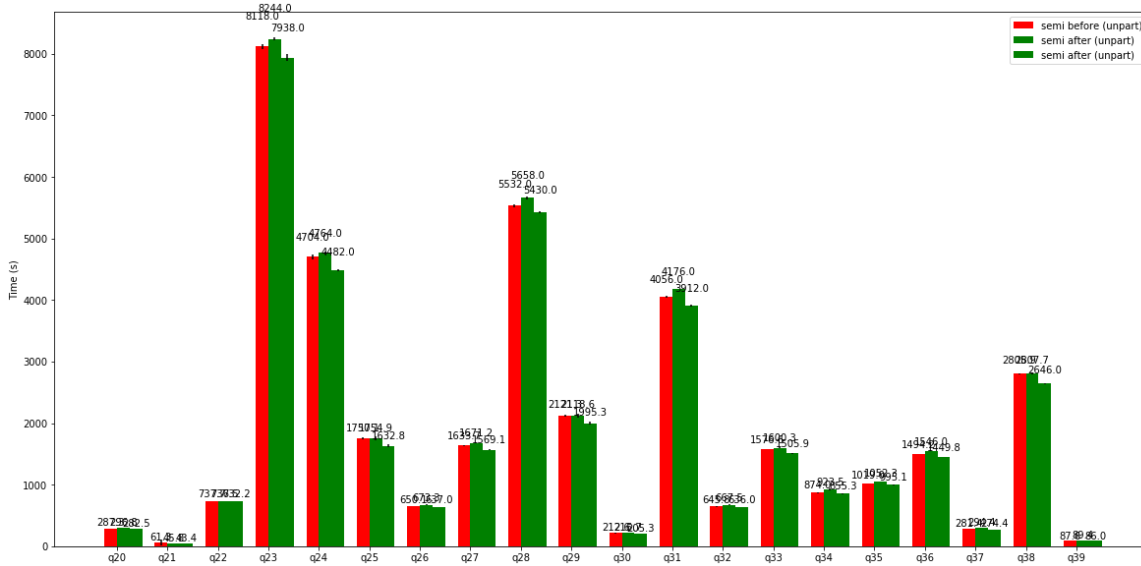
TPC-H Comparison (CPU)

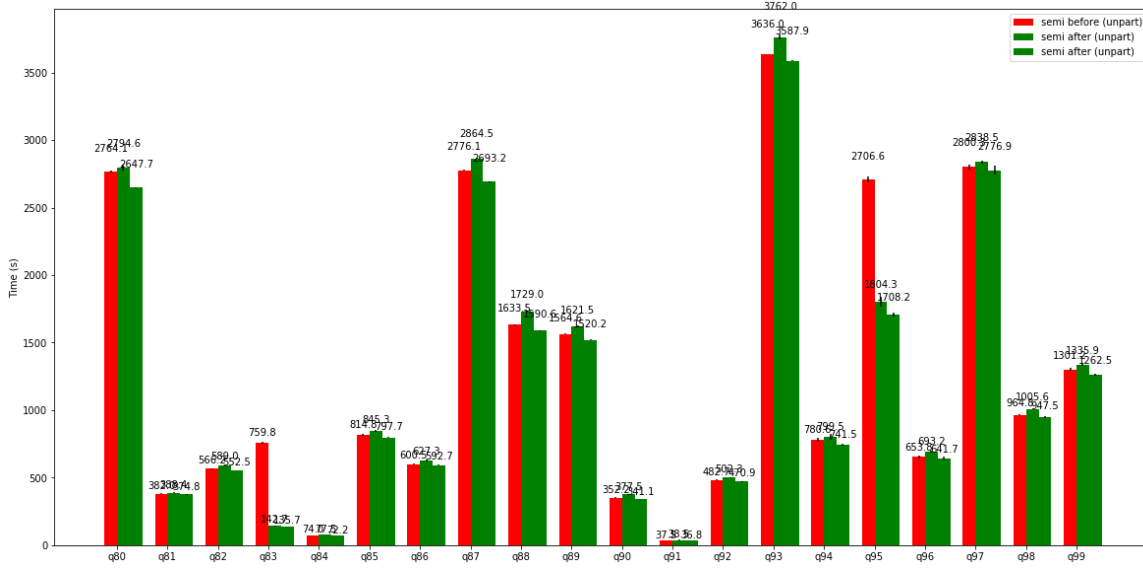
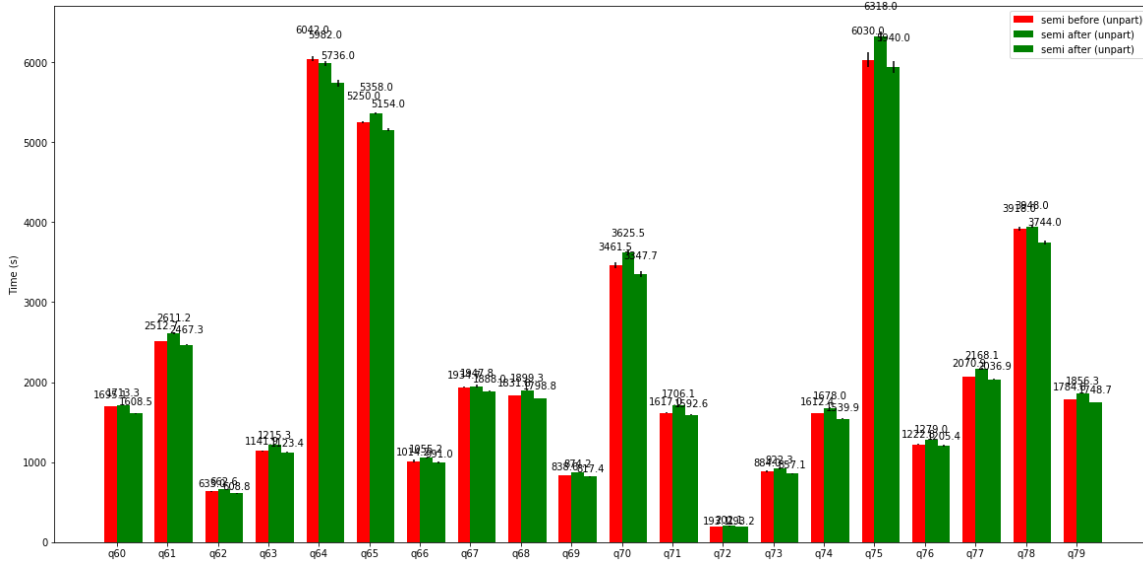
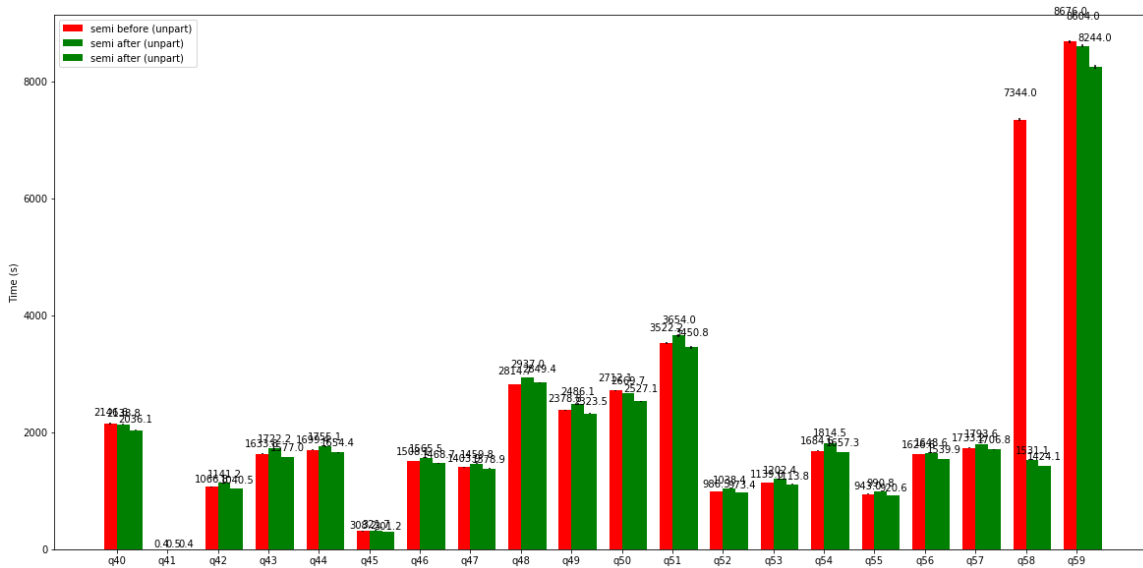


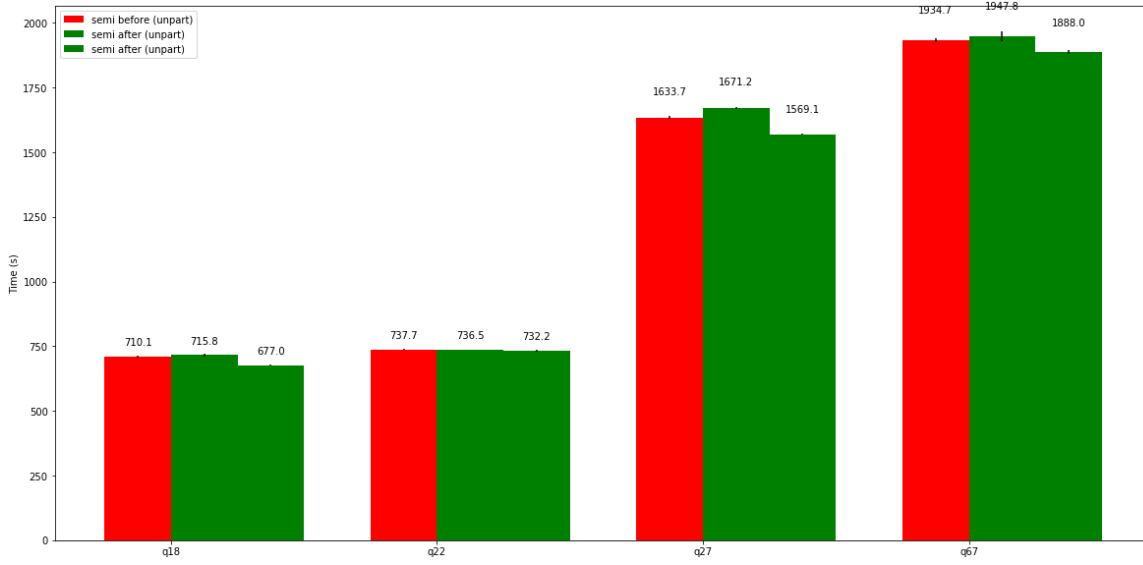
	query	semi before (unpart) mean	semi before (unpart) std.dev	semi after (unpart) mean	semi after (unpart) std.dev	semi after (unpart) mean	semi after (unpart) std.dev
0	presto/tpch: q01	6366.0	14.696938	6144.0	18.590320	6144.0	18.590320
1	presto/tpch: q02	843.6	10.712983	817.9	2.875413	817.9	2.875413
2	presto/tpch: q03	3876.0	18.590320	3804.0	18.590320	3804.0	18.590320
3	presto/tpch: q04	3104.0	40.304044	3091.9	48.157865	3091.9	48.157865
4	presto/tpch: q05	1761.0	4.104632	1709.8	3.532704	1709.8	3.532704
5	presto/tpch: q06	1681.2	0.000000	1614.9	3.654586	1614.9	3.654586
6	presto/tpch: q07	996.3	3.029851	975.1	6.205481	975.1	6.205481
7	presto/tpch: q08	1031.6	7.810762	1009.1	3.667697	1009.1	3.667697
8	presto/tpch: q09	3243.2	29.578641	3124.0	36.143049	3124.0	36.143049
9	presto/tpch: q10	3612.0	18.590320	3520.0	26.469907	3520.0	26.469907
10	presto/tpch: q11	652.5	2.204541	632.2	10.187051	632.2	10.187051
11	presto/tpch: q12	2891.4	31.859944	2825.0	31.895329	2825.0	31.895329
12	presto/tpch: q13	3810.0	14.696938	3816.0	0.000000	3816.0	0.000000
13	presto/tpch: q14	1781.0	3.512264	1736.2	2.359661	1736.2	2.359661
14	presto/tpch: q15	3592.2	7.636753	3475.0	5.494725	3475.0	5.494725
15	presto/tpch: q16	988.4	6.900435	959.0	4.081176	959.0	4.081176
16	presto/tpch: q17	3007.3	37.771259	3016.1	28.811040	3016.1	28.811040
17	presto/tpch: q18	4170.0	14.696938	4134.0	14.696938	4134.0	14.696938
18	presto/tpch: q19	3224.4	12.354756	3172.1	8.731323	3172.1	8.731323

	query	semi before (unpart) mean	semi before (unpart) std.dev	semi after (unpart) mean	semi after (unpart) std.dev	semi after (unpart) mean	semi after (unpart) std.dev
19	presto/tpch: q20	0.0	0.000000	4368.0	29.393877	4368.0	29.393877
20	presto/tpch: q21	7482.0	35.394915	7386.0	35.394915	7386.0	35.394915
21	presto/tpch: q22	1368.8	10.797778	1376.9	9.165806	1376.9	9.165806

TPC-DS Comparison (CPU)







	query	semi before (unpart) mean	semi before (unpart) std.dev	semi after (unpart) mean	semi after (unpart) std.dev	semi after (unpart) mean	semi : (unpa std.de
0	presto/tpcds: q01	559.800000	2.244994	552.500000	4.464527	552.500000	4.4645
1	presto/tpcds: q02	5346.000000	19.718012	5082.000000	14.696938	5082.000000	14.6969
2	presto/tpcds: q03	956.400000	2.814249	930.400000	3.750200	930.400000	3.7502
3	presto/tpcds: q04	1328.400000	8.785443	1287.800000	7.624172	1287.800000	7.6241
4	presto/tpcds: q05	3960.000000	0.000000	3876.000000	18.590320	3876.000000	18.5903
5	presto/tpcds: q06	756.000000	3.457166	724.500000	10.603207	724.500000	10.6032
6	presto/tpcds: q07	1709.300000	2.694439	1675.500000	2.300435	1675.500000	2.3004
7	presto/tpcds: q08	980.000000	5.899152	955.800000	10.879706	955.800000	10.8797
8	presto/tpcds: q09	5016.000000	54.199631	4914.000000	19.718012	4914.000000	19.7180
9	presto/tpcds: q10	795.700000	2.747362	782.300000	4.544447	782.300000	4.5444
10	presto/tpcds: q11	2349.500000	35.856548	2295.400000	5.611417	2295.400000	5.6114
11	presto/tpcds: q12	234.300000	1.553061	227.900000	2.321207	227.900000	2.3212
12	presto/tpcds: q13	916.800000	5.538231	912.500000	4.939231	912.500000	4.9392
13	presto/tpcds: q14	2438.900000	6.631742	2481.000000	3.286335	2481.000000	3.2863
14	presto/tpcds: q15	306.800000	4.045738	299.700000	4.404997	299.700000	4.4049
15	presto/tpcds: q16	1335.700000	14.124447	1208.300000	12.222438	1208.300000	12.2224
16	presto/tpcds: q17	1573.700000	21.272235	1491.300000	22.246168	1491.300000	22.2461
17	presto/tpcds: q18	710.100000	4.152590	677.000000	3.027871	677.000000	3.0278
18	presto/tpcds: q19	1197.600000	2.212691	1135.500000	2.069783	1135.500000	2.0697

	query	semi before (unpart) mean	semi before (unpart) std.dev	semi after (unpart) mean	semi after (unpart) std.dev	semi after (unpart) mean	semi after (unpart) std.dev
19	presto/tpcds: q20	287.300000	3.115766	282.500000	4.512649	282.500000	4.512649
20	presto/tpcds: q21	61.328333	43.444776	43.386667	0.422074	43.386667	0.422074
21	presto/tpcds: q22	737.700000	1.407125	732.200000	3.532704	732.200000	3.532704
22	presto/tpcds: q23	8118.000000	44.090815	7938.000000	54.596703	7938.000000	54.596703
23	presto/tpcds: q24	4704.000000	37.180640	4482.000000	19.718012	4482.000000	19.718012
24	presto/tpcds: q25	1750.100000	14.311813	1632.800000	23.848522	1632.800000	23.848522
25	presto/tpcds: q26	650.100000	2.703331	637.000000	1.239355	637.000000	1.239355
26	presto/tpcds: q27	1633.700000	5.438750	1569.100000	1.913113	1569.100000	1.913113
27	presto/tpcds: q28	5532.000000	18.590320	5430.000000	14.696938	5430.000000	14.696938
28	presto/tpcds: q29	2121.300000	11.774379	1995.300000	22.310805	1995.300000	22.310805
29	presto/tpcds: q30	212.600000	1.682855	205.300000	3.588314	205.300000	3.588314
30	presto/tpcds: q31	4056.000000	18.590320	3912.000000	18.590320	3912.000000	18.590320
31	presto/tpcds: q32	645.800000	2.536139	636.000000	5.393329	636.000000	5.393329
32	presto/tpcds: q33	1576.600000	4.809990	1505.900000	5.968920	1505.900000	5.968920
33	presto/tpcds: q34	874.000000	8.985321	855.300000	9.378060	855.300000	9.378060
34	presto/tpcds: q35	1019.000000	3.937512	995.100000	2.703331	995.100000	2.703331
35	presto/tpcds: q36	1494.200000	2.266274	1449.800000	5.015177	1449.800000	5.015177
36	presto/tpcds: q37	281.400000	2.112818	274.400000	1.639512	274.400000	1.639512
37	presto/tpcds: q38	2805.900000	8.423538	2646.000000	7.099296	2646.000000	7.099296

	query	semi before (unpart) mean	semi before (unpart) std.dev	semi after (unpart) mean	semi after (unpart) std.dev	semi after (unpart) mean	semi : (unpa std.de
38	presto/tpcds: q39	87.600000	0.929516	86.000000	0.979796	86.000000	0.9797
39	presto/tpcds: q40	2146.600000	12.410963	2036.100000	8.011741	2036.100000	8.0117
40	presto/tpcds: q41	0.431667	0.041712	0.438833	0.034266	0.438833	0.0342
41	presto/tpcds: q42	1066.800000	9.333810	1040.500000	6.158896	1040.500000	6.1588
42	presto/tpcds: q43	1633.800000	6.550725	1577.000000	4.642413	1577.000000	4.6424
43	presto/tpcds: q44	1699.400000	3.003997	1654.400000	6.114900	1654.400000	6.1149
44	presto/tpcds: q45	308.200000	2.066882	301.200000	4.903876	301.200000	4.9038
45	presto/tpcds: q46	1508.100000	1.407125	1468.700000	7.469136	1468.700000	7.4691
46	presto/tpcds: q47	1403.900000	5.956845	1378.900000	8.274056	1378.900000	8.2740
47	presto/tpcds: q48	2814.700000	3.317228	2849.400000	5.717342	2849.400000	5.7173
48	presto/tpcds: q49	2378.800000	7.345203	2323.500000	4.659184	2323.500000	4.6591
49	presto/tpcds: q50	2712.100000	11.924261	2527.100000	9.640539	2527.100000	9.6405
50	presto/tpcds: q51	3522.200000	22.148589	3450.800000	24.830626	3450.800000	24.830
51	presto/tpcds: q52	986.500000	4.350172	973.400000	1.639512	973.400000	1.6395
52	presto/tpcds: q53	1139.600000	1.117139	1113.800000	6.091305	1113.800000	6.0913
53	presto/tpcds: q54	1684.600000	8.592089	1657.300000	3.338862	1657.300000	3.3388
54	presto/tpcds: q55	943.000000	3.189984	920.600000	5.468455	920.600000	5.4684
55	presto/tpcds: q56	1626.600000	1.003992	1539.900000	4.958629	1539.900000	4.9586
56	presto/tpcds: q57	1733.200000	10.771072	1706.800000	10.348333	1706.800000	10.348

	query	semi before (unpart) mean	semi before (unpart) std.dev	semi after (unpart) mean	semi after (unpart) std.dev	semi after (unpart) mean	semi : (unpa std.de
57	presto/tpcds: q58	7344.000000	22.768399	1424.100000	7.147307	1424.100000	7.1473
58	presto/tpcds: q59	8676.000000	22.768399	8244.000000	32.199379	8244.000000	32.1994
59	presto/tpcds: q60	1695.100000	1.836301	1608.500000	2.557342	1608.500000	2.5573
60	presto/tpcds: q61	2512.700000	3.273530	2467.300000	4.300233	2467.300000	4.3002
61	presto/tpcds: q62	633.000000	9.091535	608.800000	6.623594	608.800000	6.6236
62	presto/tpcds: q63	1141.900000	4.383150	1123.400000	5.850128	1123.400000	5.8501
63	presto/tpcds: q64	6042.000000	35.394915	5736.000000	43.598165	5736.000000	43.5982
64	presto/tpcds: q65	5250.000000	14.696938	5154.000000	14.696938	5154.000000	14.6969
65	presto/tpcds: q66	1014.200000	14.986394	991.000000	12.457287	991.000000	12.4573
66	presto/tpcds: q67	1934.700000	7.643821	1888.000000	8.100370	1888.000000	8.1004
67	presto/tpcds: q68	1831.800000	2.308246	1798.800000	2.459268	1798.800000	2.4593
68	presto/tpcds: q69	838.600000	2.201817	817.400000	4.236980	817.400000	4.2369
69	presto/tpcds: q70	3461.500000	39.602576	3347.700000	33.455582	3347.700000	33.4556
70	presto/tpcds: q71	1617.000000	7.129656	1592.600000	2.419917	1592.600000	2.4199
71	presto/tpcds: q72	193.100000	1.489966	193.200000	3.756594	193.200000	3.7566
72	presto/tpcds: q73	884.000000	9.582484	857.100000	9.081630	857.100000	9.0816
73	presto/tpcds: q74	1612.400000	3.144519	1539.900000	5.764373	1539.900000	5.7644
74	presto/tpcds: q75	6030.000000	87.443696	5940.000000	75.514237	5940.000000	75.5142
75	presto/tpcds: q76	1222.800000	4.326662	1205.400000	6.315695	1205.400000	6.3157

	query	semi before (unpart) mean	semi before (unpart) std.dev	semi after (unpart) mean	semi after (unpart) std.dev	semi after (unpart) mean	semi after (unpart) std.dev
76	presto/tpcds: q77	2070.900000	2.858671	2036.900000	7.836070	2036.900000	7.836070
77	presto/tpcds: q78	3918.000000	27.099815	3744.000000	22.768399	3744.000000	22.768399
78	presto/tpcds: q79	1784.800000	2.931211	1748.700000	2.566710	1748.700000	2.566710
79	presto/tpcds: q80	2764.100000	8.026705	2647.700000	5.277499	2647.700000	5.277499
80	presto/tpcds: q81	382.000000	2.066882	374.800000	0.979796	374.800000	0.979796
81	presto/tpcds: q82	566.200000	3.807361	552.500000	2.092845	552.500000	2.092845
82	presto/tpcds: q83	759.800000	8.904830	135.700000	1.389964	135.700000	1.389964
83	presto/tpcds: q84	74.000000	0.309839	72.200000	0.309839	72.200000	0.309839
84	presto/tpcds: q85	814.800000	5.551216	797.700000	3.614969	797.700000	3.614969
85	presto/tpcds: q86	600.500000	5.980970	592.700000	2.258318	592.700000	2.258318
86	presto/tpcds: q87	2776.100000	2.500400	2693.200000	3.408225	2693.200000	3.408225
87	presto/tpcds: q88	1633.500000	4.135215	1590.600000	3.832493	1590.600000	3.832493
88	presto/tpcds: q89	1564.600000	3.027871	1520.200000	1.995996	1520.200000	1.995996
89	presto/tpcds: q90	352.200000	4.844791	341.100000	2.703331	341.100000	2.703331
90	presto/tpcds: q91	37.511667	0.841770	36.750000	0.611228	36.750000	0.611228
91	presto/tpcds: q92	482.700000	2.236962	470.900000	1.224745	470.900000	1.224745
92	presto/tpcds: q93	3636.000000	0.000000	3587.900000	4.745946	3587.900000	4.745946
93	presto/tpcds: q94	780.600000	15.888109	741.500000	6.707309	741.500000	6.707309
94	presto/tpcds: q95	2706.600000	21.566641	1708.200000	12.499600	1708.200000	12.499600

	query	semi before (unpart) mean	semi before (unpart) std.dev	semi after (unpart) mean	semi after (unpart) std.dev	semi after (unpart) mean	semi : (unpa std.de
95	presto/tpcds: q96	653.800000	9.965541	641.700000	11.087831	641.700000	11.087
96	presto/tpcds: q97	2800.300000	21.434085	2776.900000	34.493304	2776.900000	34.493
97	presto/tpcds: q98	964.800000	2.244994	947.500000	7.001428	947.500000	7.0014
98	presto/tpcds: q99	1301.200000	9.167770	1262.500000	9.337023	1262.500000	9.3370