

Out[71]: [Show Code](#)

## Overall Metric Sums

	label	TPCH wall time	TPC-DS wall time	TPCH CPU time	TPC-DS CPU time	TPCH peak memory	TPC-DS peak memory
0	master	610.132333	957.921500	60780.000000	102081.890000	1.228 TiB	0.969 TiB
1	homar_test_column_sizes	623.209667	925.046333	61558.900000	95957.246667	1.248 TiB	0.968 TiB

## Tags

Tag	Label	Color
0 homar_test_column_sizes_-oss-7_r6g_8xlarge-404-S-b9d4a0fd86_arm64-hive_sf1000_parquet_part-s1881	master	m
1 homar_test_column_sizes-oss-7_r6g_8xlarge-404-S-37e72246a6_arm64-hive_sf1000_parquet_part-s1876	homar_test_column_sizes	y

## FAILED QUERIES

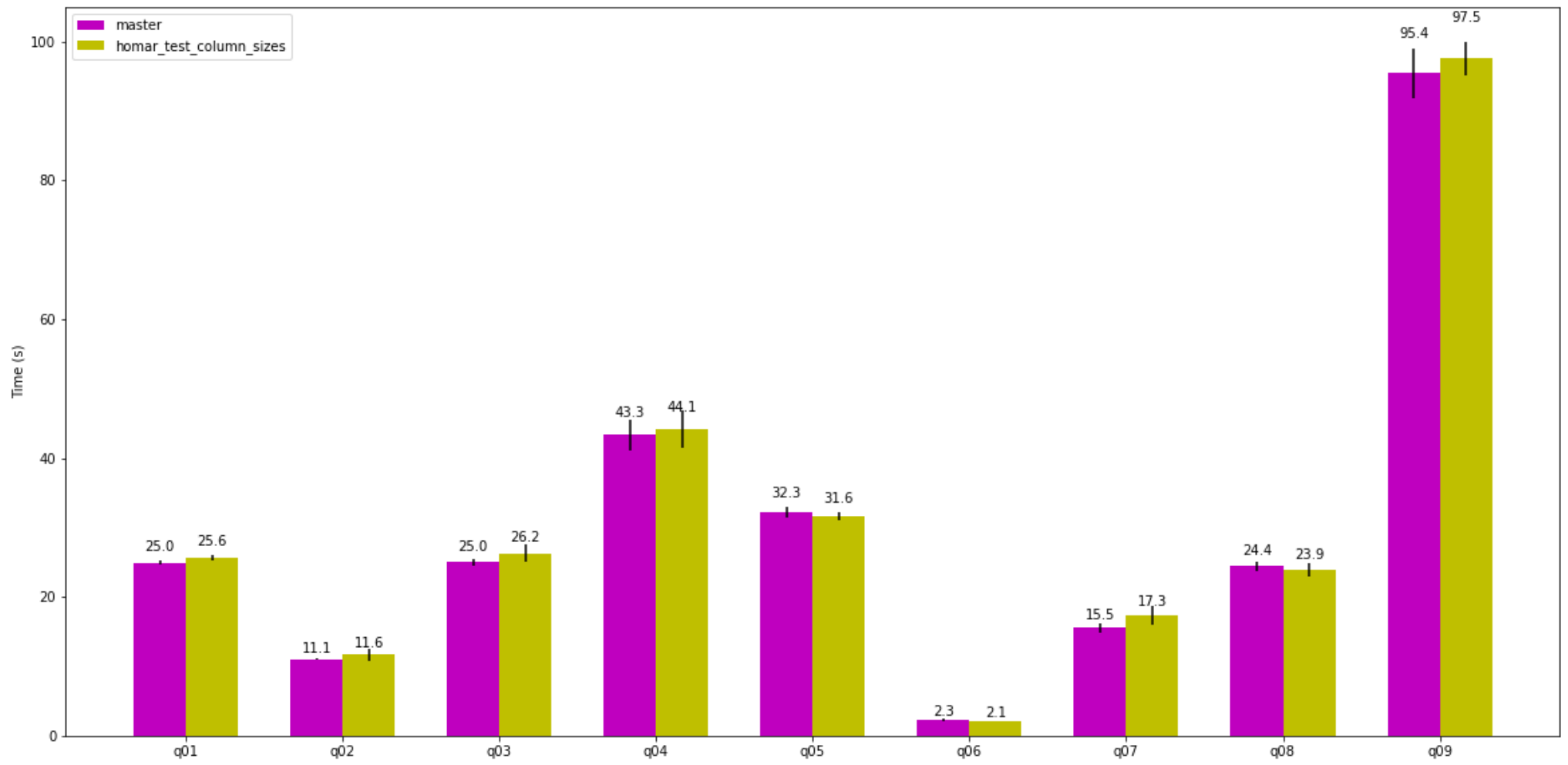
### master

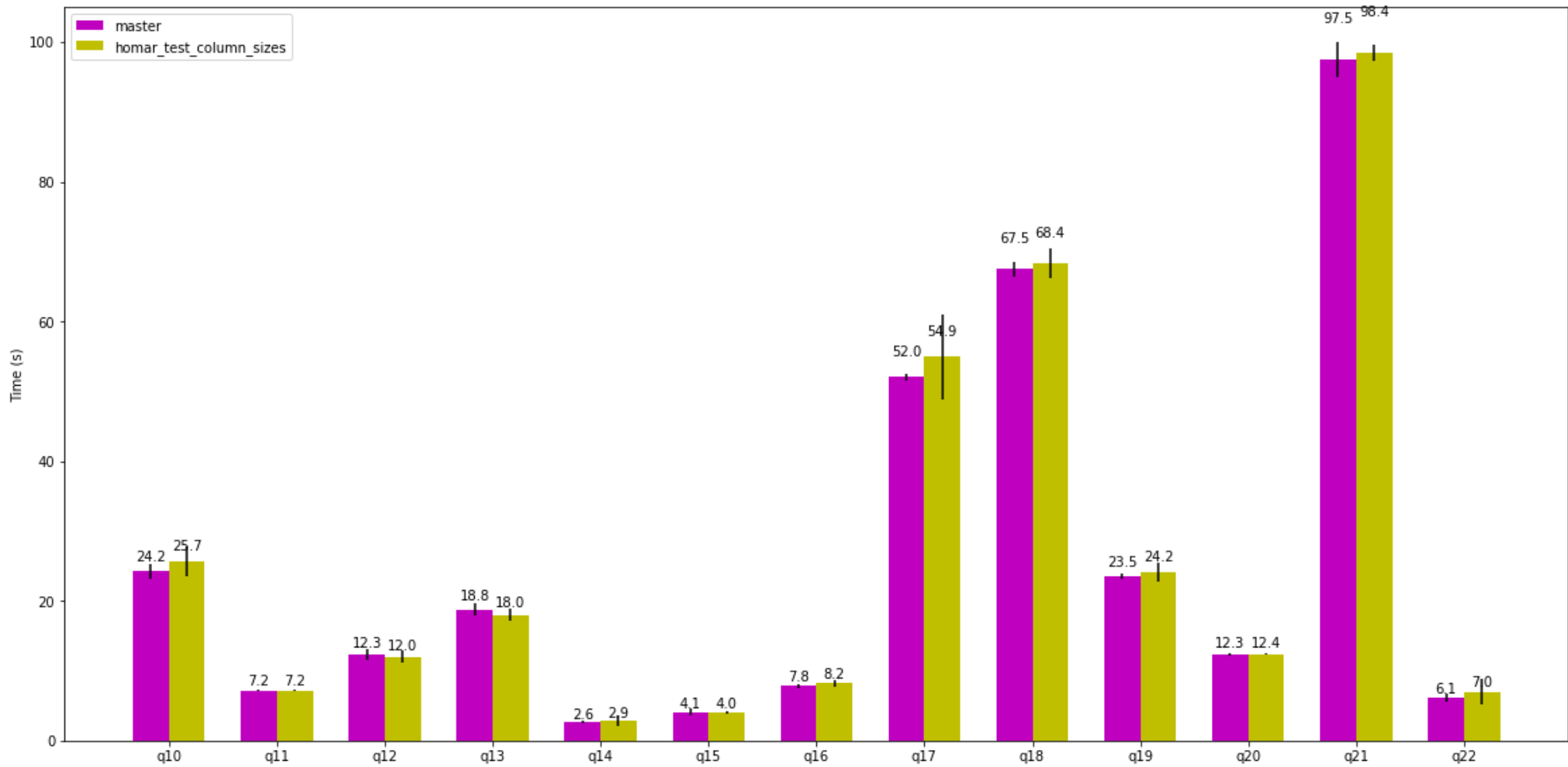
benchmark query mean\_duration std\_dev

### homar\_test\_column\_sizes

benchmark query mean\_duration std\_dev

## TPC-H Comparison (DURATION)

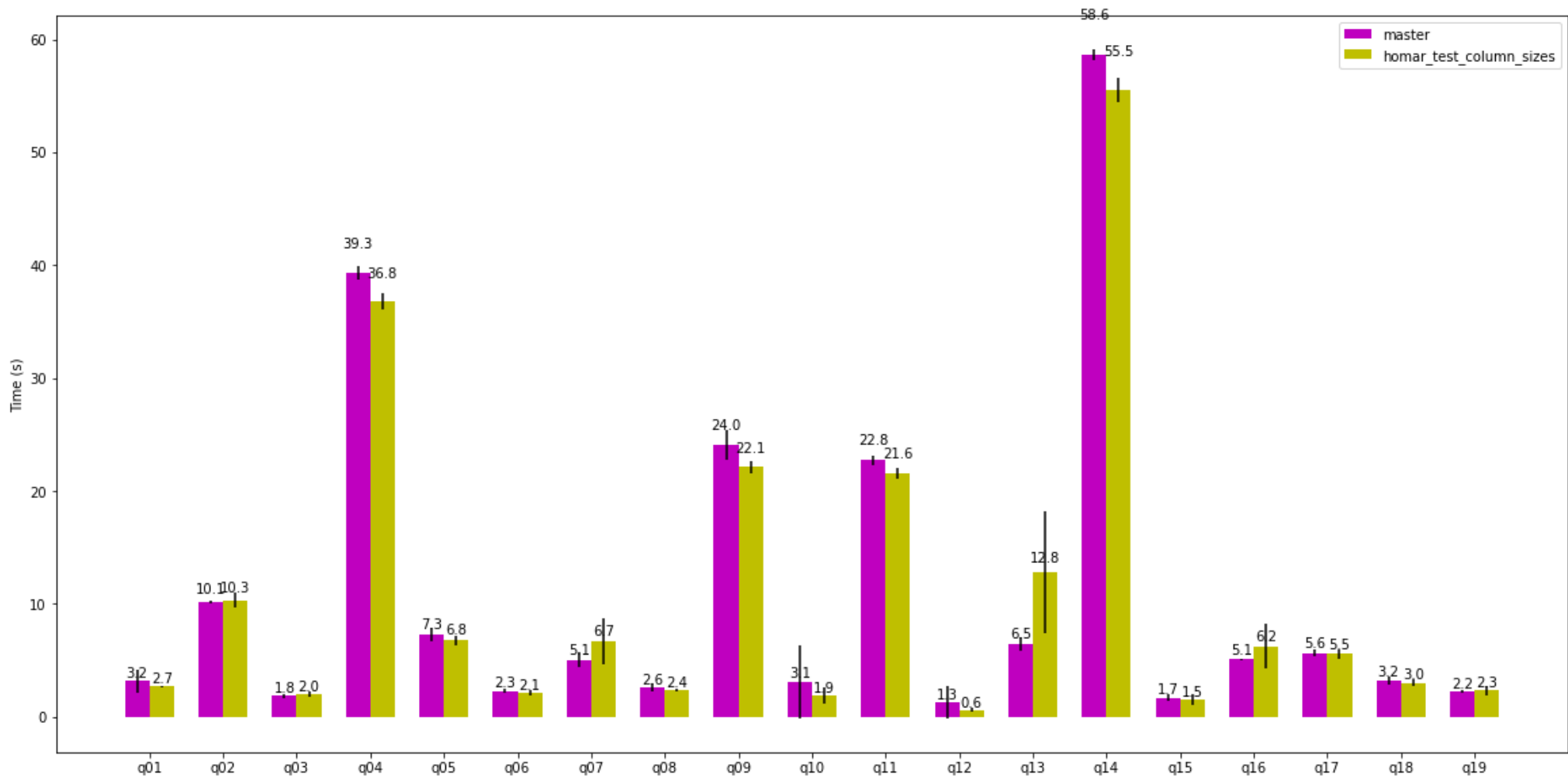


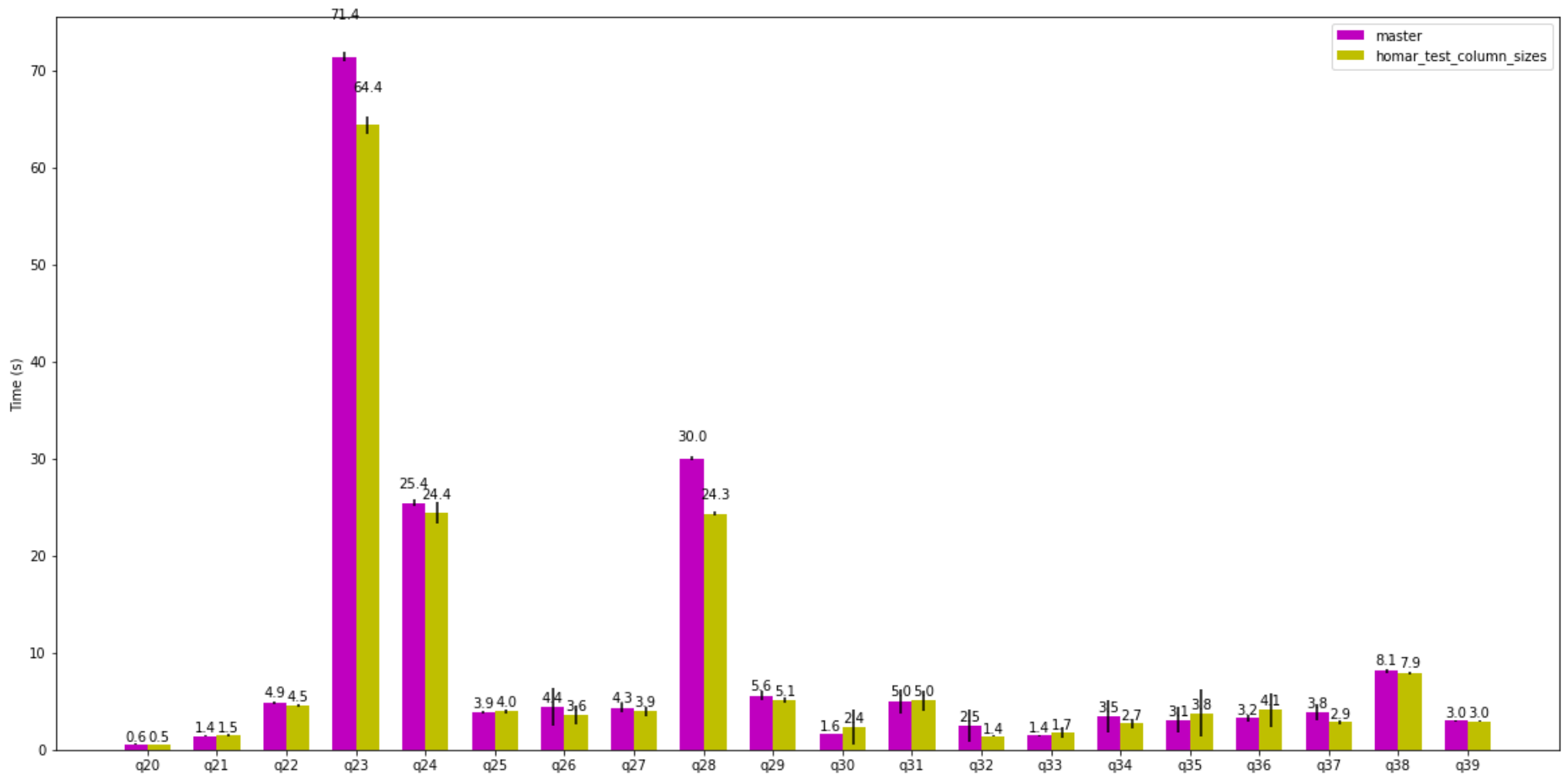


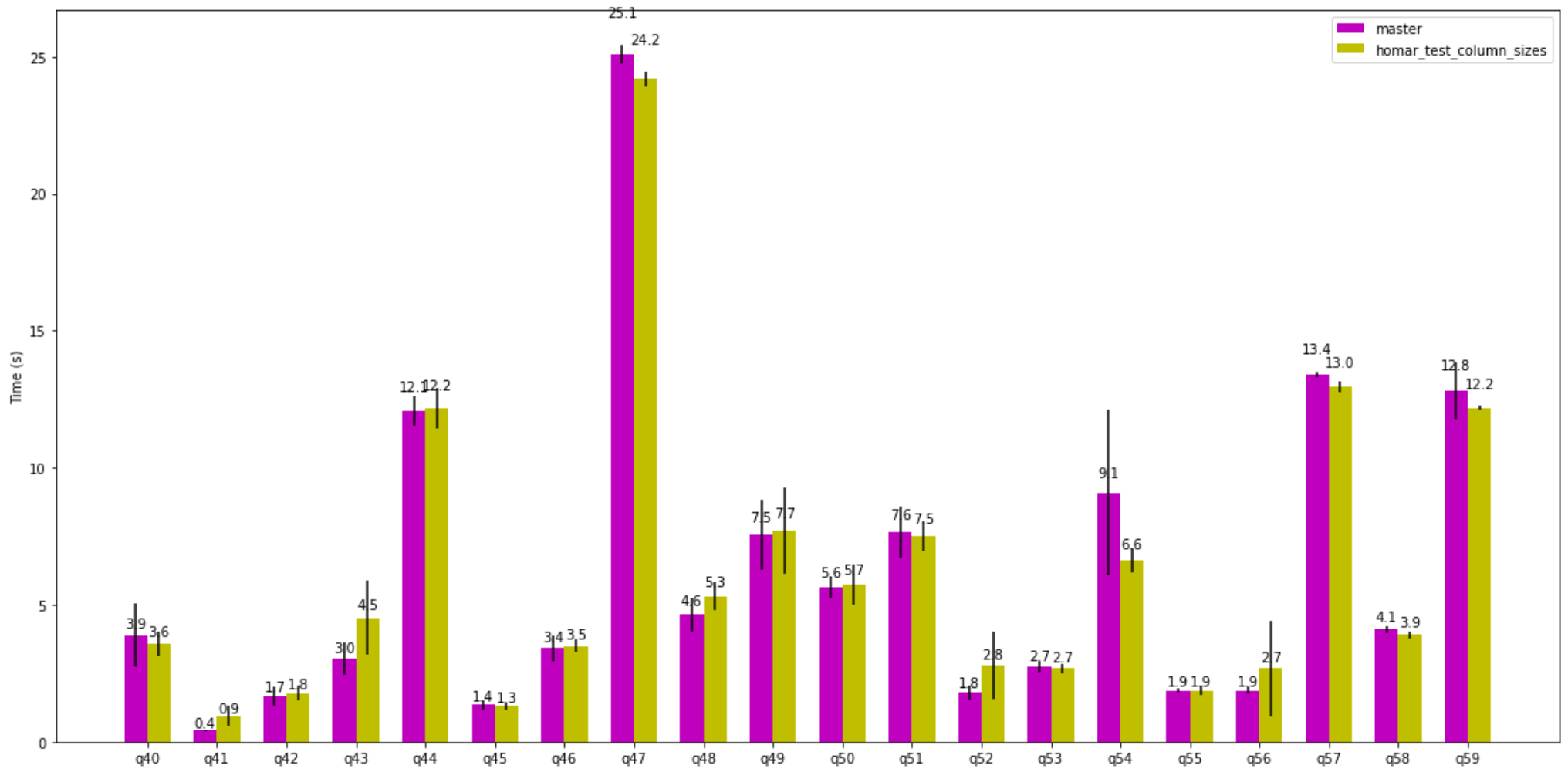
	query	master mean	master std.dev	homar_test_column_sizes mean	homar_test_column_sizes std.dev
0	presto/tpch: q01	24.951833	0.345639	25.609833	0.431632
1	presto/tpch: q02	11.054833	0.180759	11.648167	0.838129
2	presto/tpch: q03	24.986000	0.418760	26.246333	1.289918
3	presto/tpch: q04	43.297167	2.183231	44.086500	2.709160
4	presto/tpch: q05	32.254333	0.777492	31.581333	0.567018
5	presto/tpch: q06	2.313667	0.140662	2.083333	0.053399
6	presto/tpch: q07	15.503167	0.691946	17.349667	1.355123

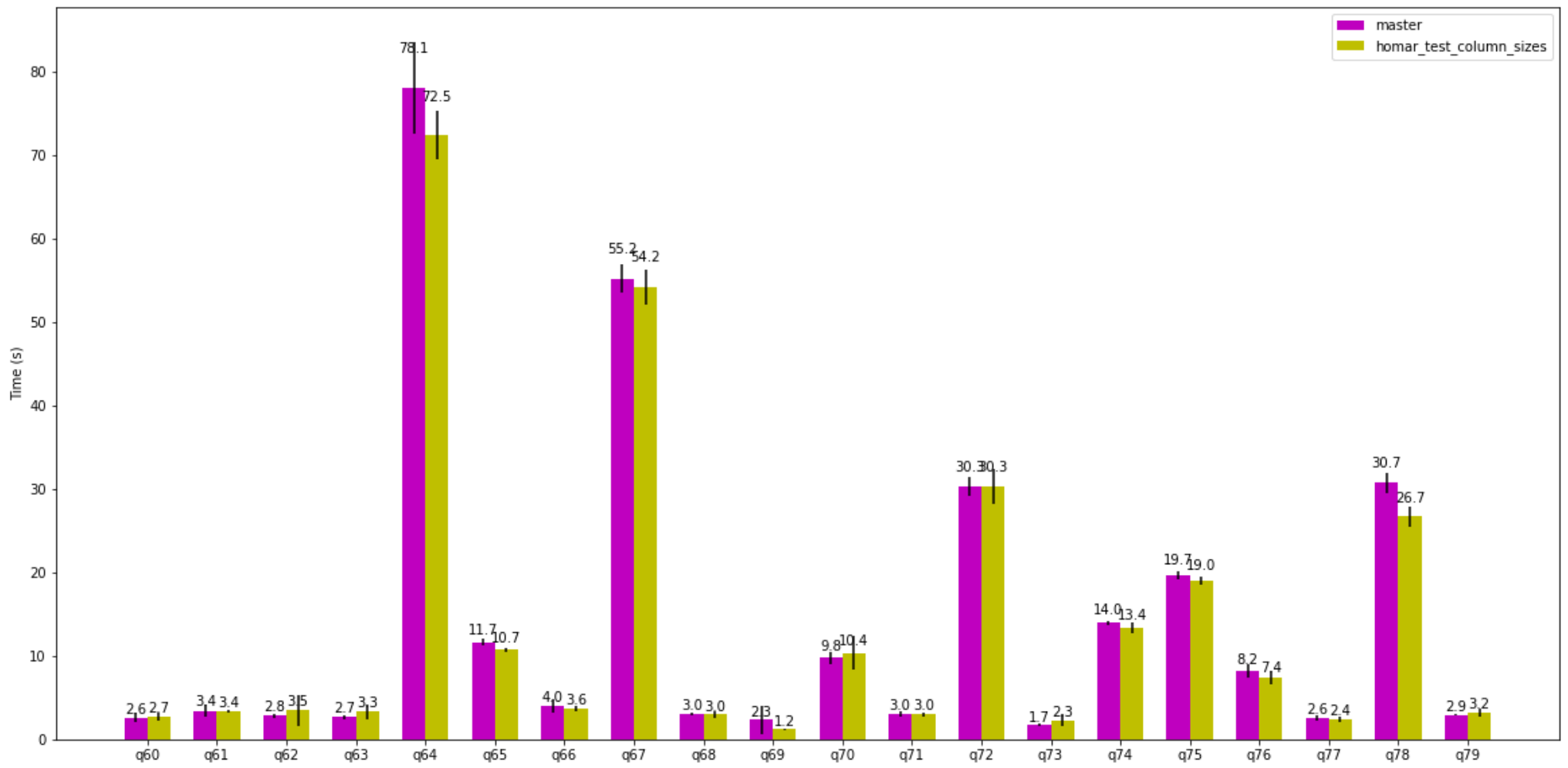
	query	master mean	master std.dev	homar_test_column_sizes mean	homar_test_column_sizes std.dev
7	presto/tpch: q08	24.379000	0.687137	23.920167	0.968640
8	presto/tpch: q09	95.416833	3.625791	97.525500	2.392026
9	presto/tpch: q10	24.207000	1.044264	25.702000	2.147047
10	presto/tpch: q11	7.196500	0.097178	7.181000	0.067637
11	presto/tpch: q12	12.326667	0.838804	12.017833	0.814351
12	presto/tpch: q13	18.775667	0.798481	17.974167	0.854207
13	presto/tpch: q14	2.633500	0.215825	2.861333	0.777029
14	presto/tpch: q15	4.068833	0.532772	4.000500	0.235097
15	presto/tpch: q16	7.787667	0.275320	8.175333	0.478453
16	presto/tpch: q17	52.036500	0.522855	54.921500	6.082160
17	presto/tpch: q18	67.538333	1.044966	68.368833	2.069176
18	presto/tpch: q19	23.496000	0.364637	24.178500	1.352340
19	presto/tpch: q20	12.310833	0.147666	12.406667	0.114673
20	presto/tpch: q21	97.459167	2.535049	98.419000	1.181197
21	presto/tpch: q22	6.138833	0.494205	6.952167	1.868324

## TPC-DS Comparison (DURATION)

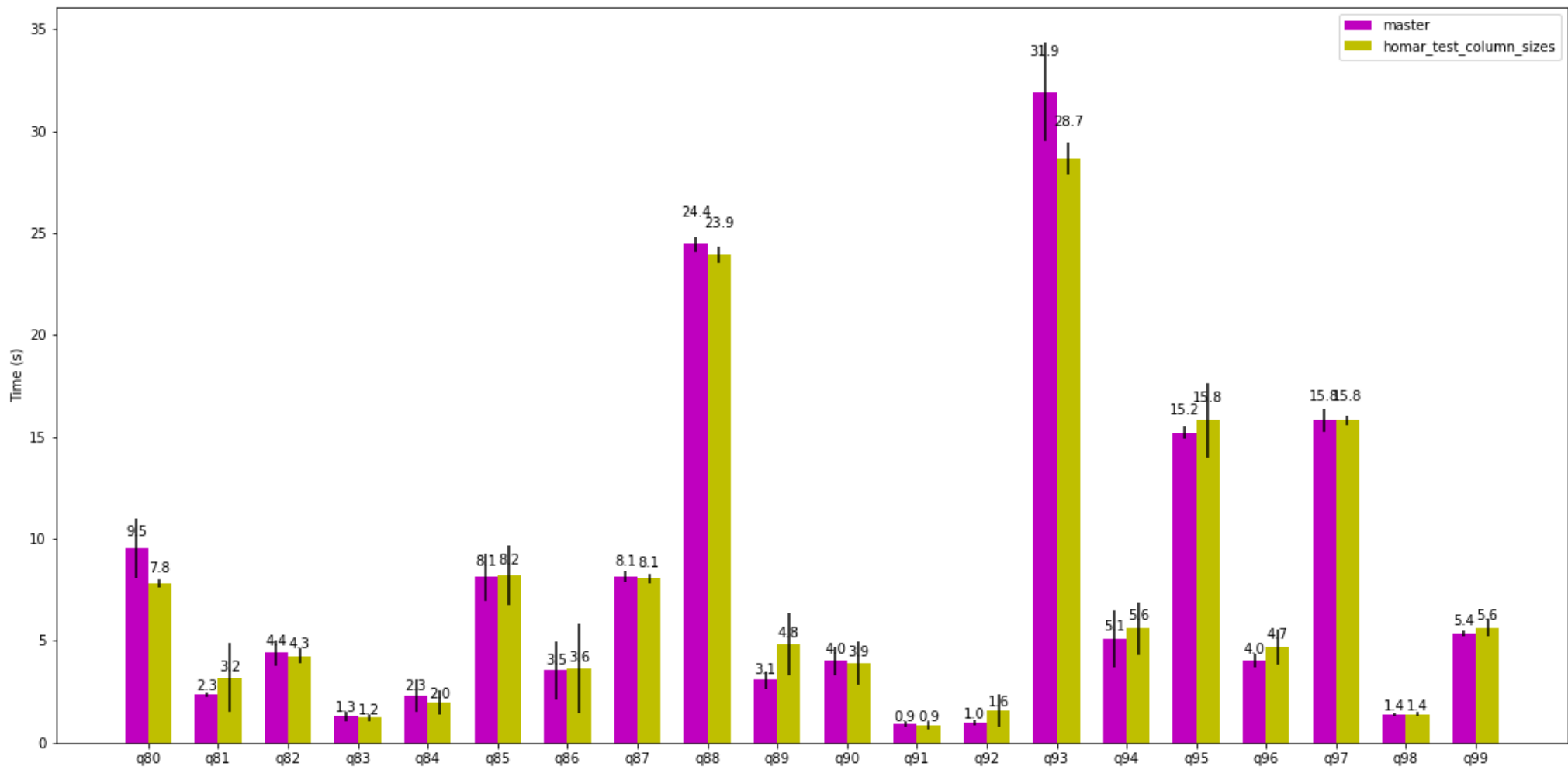












	query	master mean	master std.dev	homar_test_column_sizes mean	homar_test_column_sizes std.dev
0	presto/tpcds: q01	3.160667	1.017565	2.675333	0.073107
1	presto/tpcds: q02	10.145000	0.148184	10.304167	0.669834
2	presto/tpcds: q03	1.827333	0.151085	2.003167	0.250670
3	presto/tpcds: q04	39.328167	0.569253	36.766667	0.745882
4	presto/tpcds: q05	7.269667	0.623708	6.760833	0.440855
5	presto/tpcds: q06	2.297000	0.158298	2.085167	0.250477
6	presto/tpcds: q07	5.052167	0.635593	6.671833	2.008004

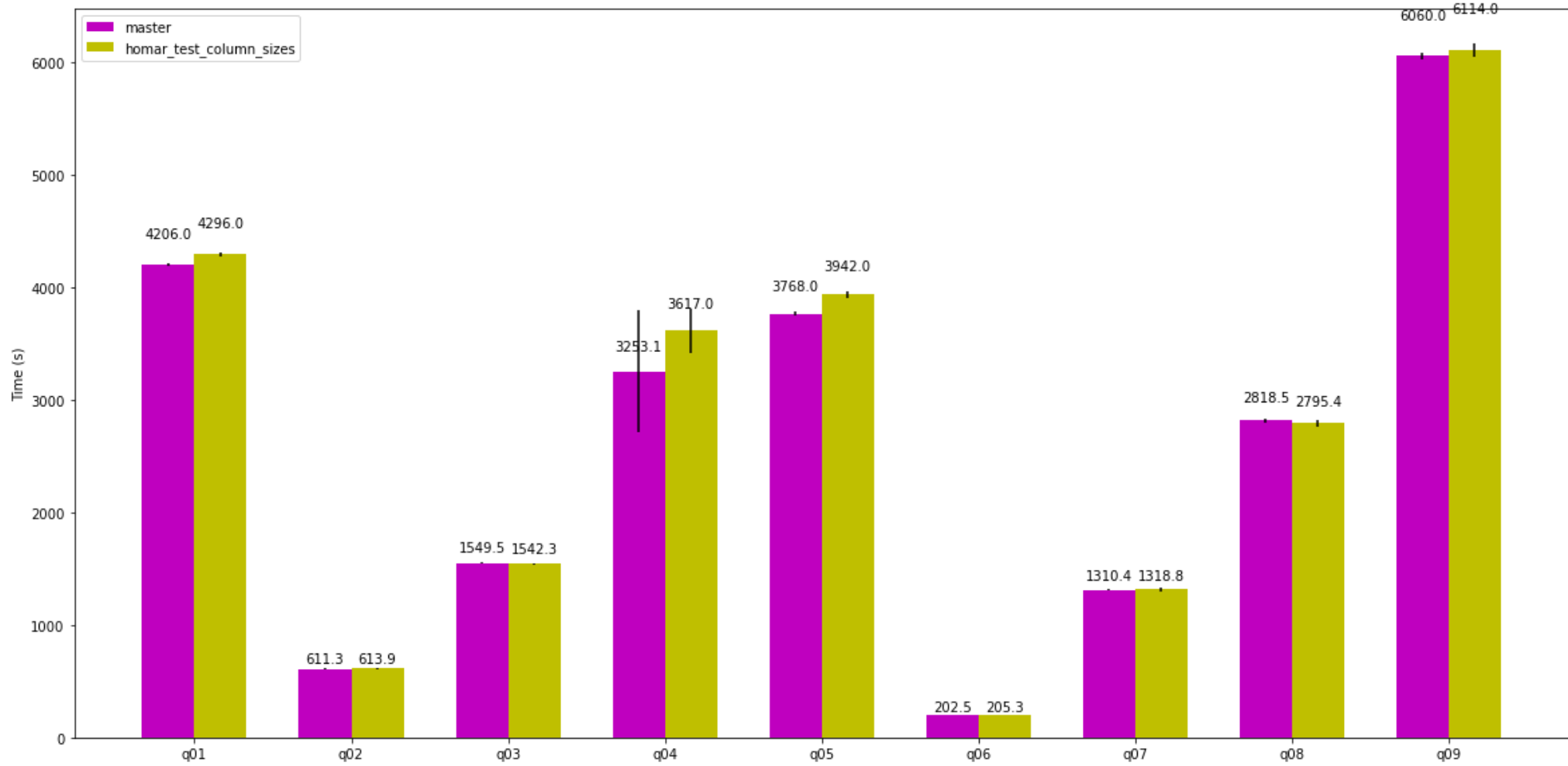
	query	master mean	master std.dev	homar_test_column_sizes mean	homar_test_column_sizes std.dev
7	presto/tpcds: q08	2.580667	0.348255	2.353167	0.074580
8	presto/tpcds: q09	24.047500	1.315384	22.115167	0.578488
9	presto/tpcds: q10	3.133000	3.236674	1.882667	0.741474
10	presto/tpcds: q11	22.751667	0.414760	21.579333	0.452664
11	presto/tpcds: q12	1.298167	1.461791	0.612333	0.214897
12	presto/tpcds: q13	6.464500	0.564260	12.803000	5.396748
13	presto/tpcds: q14	58.619833	0.499419	55.528333	1.110987
14	presto/tpcds: q15	1.703500	0.285785	1.514000	0.482329
15	presto/tpcds: q16	5.087667	0.069073	6.218333	1.990902
16	presto/tpcds: q17	5.635500	0.283409	5.549667	0.432260
17	presto/tpcds: q18	3.234667	0.376027	3.015500	0.282071
18	presto/tpcds: q19	2.197667	0.128674	2.324667	0.385577
19	presto/tpcds: q20	0.579667	0.041860	0.545833	0.019426
20	presto/tpcds: q21	1.424500	0.043224	1.512667	0.128864
21	presto/tpcds: q22	4.862333	0.102101	4.521667	0.146548
22	presto/tpcds: q23	71.449667	0.482626	64.387000	0.927393
23	presto/tpcds: q24	25.418333	0.339350	24.410667	1.081028
24	presto/tpcds: q25	3.893167	0.106165	3.978333	0.187012
25	presto/tpcds: q26	4.431667	1.890116	3.584000	0.938931
26	presto/tpcds: q27	4.325500	0.478324	3.940500	0.443471
27	presto/tpcds: q28	30.010333	0.223328	24.307333	0.227446
28	presto/tpcds: q29	5.574167	0.452419	5.091167	0.306286
29	presto/tpcds: q30	1.637833	0.053237	2.358000	1.796166
30	presto/tpcds: q31	4.989500	1.259758	5.045167	1.056105
31	presto/tpcds: q32	2.474833	1.675740	1.397833	0.070689
32	presto/tpcds: q33	1.442500	0.049074	1.714333	0.553164

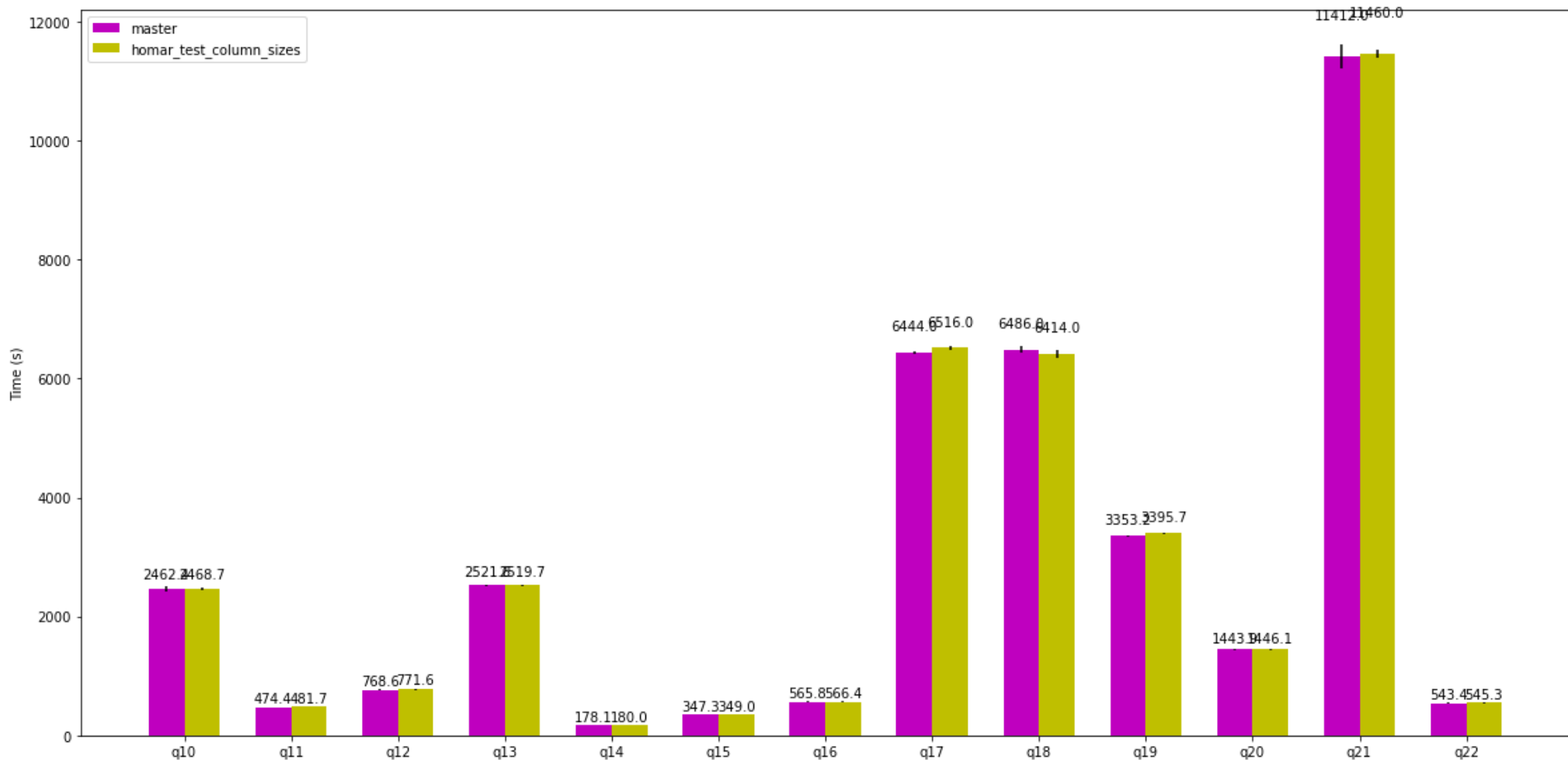
	query	master mean	master std.dev	homar_test_column_sizes mean	homar_test_column_sizes std.dev
33	presto/tpcds: q34	3.482833	1.669344	2.717500	0.454508
34	presto/tpcds: q35	3.087000	1.270374	3.776500	2.393735
35	presto/tpcds: q36	3.241000	0.365922	4.111833	1.721693
36	presto/tpcds: q37	3.815333	0.829874	2.862167	0.199182
37	presto/tpcds: q38	8.120833	0.184687	7.870333	0.148225
38	presto/tpcds: q39	2.978833	0.051460	2.952000	0.029079
39	presto/tpcds: q40	3.877500	1.158287	3.573000	0.456327
40	presto/tpcds: q41	0.420667	0.016585	0.939167	0.366472
41	presto/tpcds: q42	1.674167	0.349985	1.773000	0.257675
42	presto/tpcds: q43	3.026167	0.579510	4.515833	1.344369
43	presto/tpcds: q44	12.094000	0.540085	12.162500	0.731775
44	presto/tpcds: q45	1.356833	0.173623	1.295167	0.137950
45	presto/tpcds: q46	3.407167	0.447856	3.499000	0.225750
46	presto/tpcds: q47	25.091333	0.331146	24.186000	0.264264
47	presto/tpcds: q48	4.643000	0.605937	5.317500	0.516906
48	presto/tpcds: q49	7.544333	1.272318	7.691000	1.570942
49	presto/tpcds: q50	5.638667	0.371445	5.719500	0.729345
50	presto/tpcds: q51	7.644500	0.932283	7.495167	0.536721
51	presto/tpcds: q52	1.791500	0.263976	2.772000	1.232638
52	presto/tpcds: q53	2.743833	0.200934	2.676333	0.175616
53	presto/tpcds: q54	9.091333	3.024425	6.625333	0.456338
54	presto/tpcds: q55	1.876667	0.094001	1.877167	0.177376
55	presto/tpcds: q56	1.875833	0.112010	2.676167	1.757145
56	presto/tpcds: q57	13.409333	0.104295	12.950833	0.212238
57	presto/tpcds: q58	4.099333	0.136296	3.910167	0.115802
58	presto/tpcds: q59	12.824833	1.036005	12.178167	0.064824

	query	master mean	master std.dev	homar_test_column_sizes mean	homar_test_column_sizes std.dev
59	presto/tpcds: q60	2.628167	0.506796	2.720333	0.535735
60	presto/tpcds: q61	3.435833	0.712022	3.386833	0.177147
61	presto/tpcds: q62	2.840000	0.230700	3.473667	1.821168
62	presto/tpcds: q63	2.686833	0.217622	3.298667	0.907642
63	presto/tpcds: q64	78.099833	5.493847	72.490000	2.902063
64	presto/tpcds: q65	11.673333	0.392691	10.706833	0.262330
65	presto/tpcds: q66	3.952500	0.828347	3.650000	0.357287
66	presto/tpcds: q67	55.247167	1.709240	54.215000	2.041948
67	presto/tpcds: q68	3.035167	0.238845	2.958500	0.362348
68	presto/tpcds: q69	2.314000	1.694482	1.194833	0.080586
69	presto/tpcds: q70	9.752667	0.701806	10.373500	2.039893
70	presto/tpcds: q71	3.021000	0.258517	2.993000	0.203680
71	presto/tpcds: q72	30.288833	1.102275	30.319000	2.168738
72	presto/tpcds: q73	1.685167	0.177803	2.250667	0.731339
73	presto/tpcds: q74	13.974500	0.219666	13.391000	0.602846
74	presto/tpcds: q75	19.712500	0.474982	19.032333	0.502287
75	presto/tpcds: q76	8.229833	0.831911	7.411167	0.808050
76	presto/tpcds: q77	2.555667	0.323860	2.371000	0.288859
77	presto/tpcds: q78	30.745667	1.190410	26.707500	1.228381
78	presto/tpcds: q79	2.923833	0.096444	3.203667	0.511331
79	presto/tpcds: q80	9.520500	1.452279	7.835667	0.209643
80	presto/tpcds: q81	2.345000	0.083917	3.200833	1.678720
81	presto/tpcds: q82	4.399833	0.638151	4.255000	0.360831
82	presto/tpcds: q83	1.286833	0.211330	1.217000	0.145393
83	presto/tpcds: q84	2.311667	0.785930	1.977167	0.564734
84	presto/tpcds: q85	8.121500	1.166612	8.215333	1.445187

	query	master mean	master std.dev	homar_test_column_sizes mean	homar_test_column_sizes std.dev
<b>85</b>	presto/tpcds: q86	3.549667	1.430096	3.645000	2.194045
<b>86</b>	presto/tpcds: q87	8.149333	0.261492	8.056333	0.245151
<b>87</b>	presto/tpcds: q88	24.445000	0.363531	23.932333	0.404556
<b>88</b>	presto/tpcds: q89	3.074000	0.435218	4.819333	1.510974
<b>89</b>	presto/tpcds: q90	4.005667	0.697581	3.918500	1.048025
<b>90</b>	presto/tpcds: q91	0.888667	0.129641	0.865000	0.194066
<b>91</b>	presto/tpcds: q92	0.997833	0.129020	1.592667	0.809100
<b>92</b>	presto/tpcds: q93	31.932333	2.416781	28.662833	0.799164
<b>93</b>	presto/tpcds: q94	5.116167	1.381730	5.622667	1.296129
<b>94</b>	presto/tpcds: q95	15.204167	0.316287	15.812667	1.820085
<b>95</b>	presto/tpcds: q96	4.022833	0.353563	4.723000	0.865736
<b>96</b>	presto/tpcds: q97	15.816333	0.570164	15.824667	0.246597
<b>97</b>	presto/tpcds: q98	1.373000	0.064044	1.405500	0.106755
<b>98</b>	presto/tpcds: q99	5.353500	0.124811	5.636167	0.426074

## TPC-H Comparison (CPU)



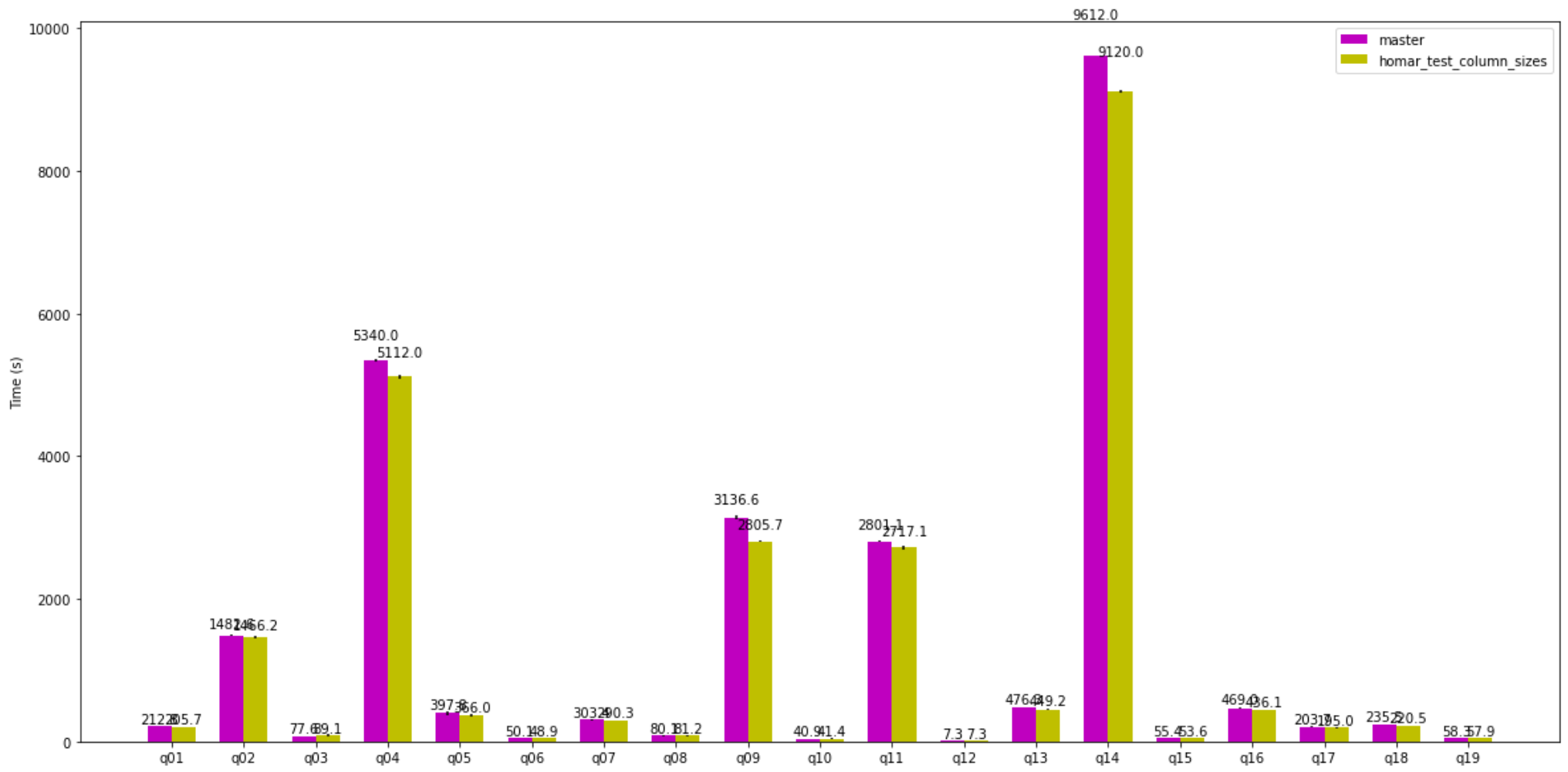


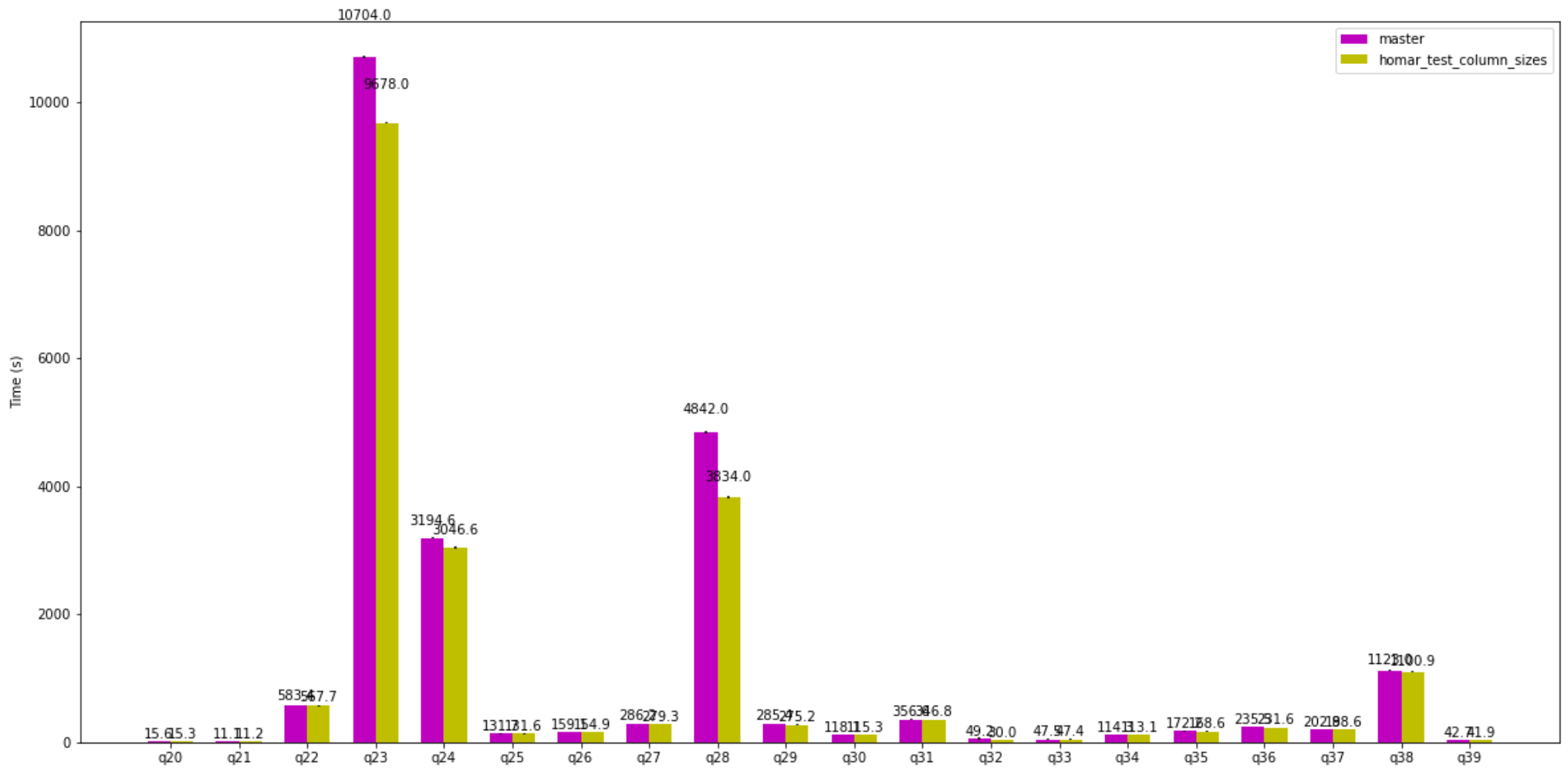
	query	master mean	master std.dev	homar_test_column_sizes mean	homar_test_column_sizes std.dev
0	presto/tpch: q01	4206.0	14.696938	4296.0	18.590320
1	presto/tpch: q02	611.3	0.961249	613.9	4.146806
2	presto/tpch: q03	1549.5	4.581266	1542.3	5.875713
3	presto/tpch: q04	3253.1	542.594091	3617.0	192.288408
4	presto/tpch: q05	3768.0	18.590320	3942.0	30.119761
5	presto/tpch: q06	202.5	0.328634	205.3	0.589915
6	presto/tpch: q07	1310.4	7.348469	1318.8	17.851387

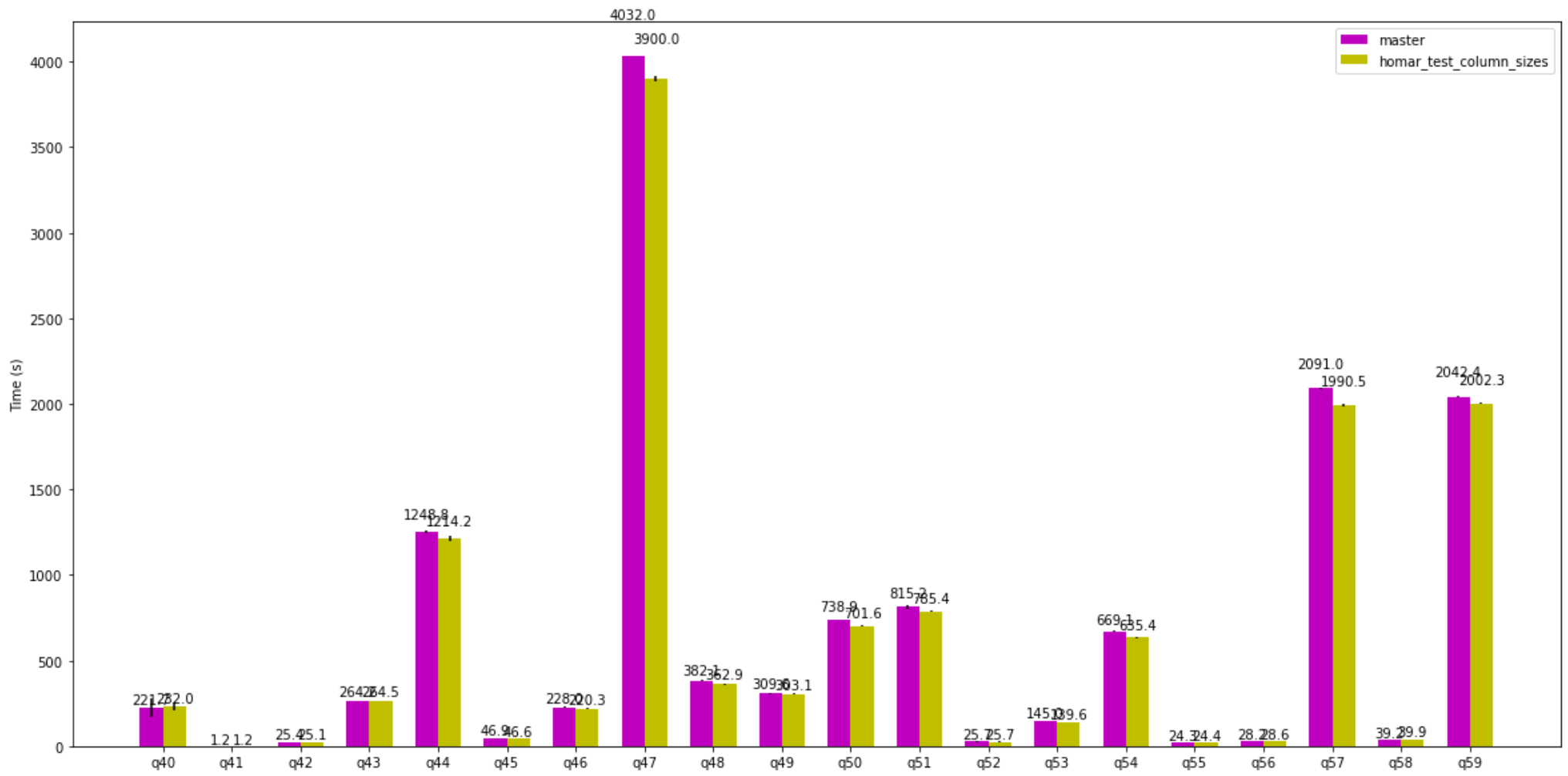
	query	master mean	master std.dev	homar_test_column_sizes mean	homar_test_column_sizes std.dev
7	presto/tpch: q08	2818.5	16.174424	2795.4	29.115769
8	presto/tpch: q09	6060.0	29.393877	6114.0	57.674951
9	presto/tpch: q10	2462.4	35.443702	2468.7	23.446876
10	presto/tpch: q11	474.4	0.619677	481.7	1.986957
11	presto/tpch: q12	768.6	1.138420	771.6	2.762607
12	presto/tpch: q13	2521.6	6.126663	2519.7	16.591926
13	presto/tpch: q14	178.1	1.836301	180.0	1.859032
14	presto/tpch: q15	347.3	2.126970	349.0	1.806654
15	presto/tpch: q16	565.8	2.212691	566.4	1.419859
16	presto/tpch: q17	6444.0	22.768399	6516.0	39.436024
17	presto/tpch: q18	6486.0	52.990565	6414.0	62.006451
18	presto/tpch: q19	3353.2	16.755656	3395.7	21.337572
19	presto/tpch: q20	1443.9	7.004855	1446.1	8.959241
20	presto/tpch: q21	11412.0	203.646753	11460.0	74.361280
21	presto/tpch: q22	543.4	1.959592	545.3	3.969383

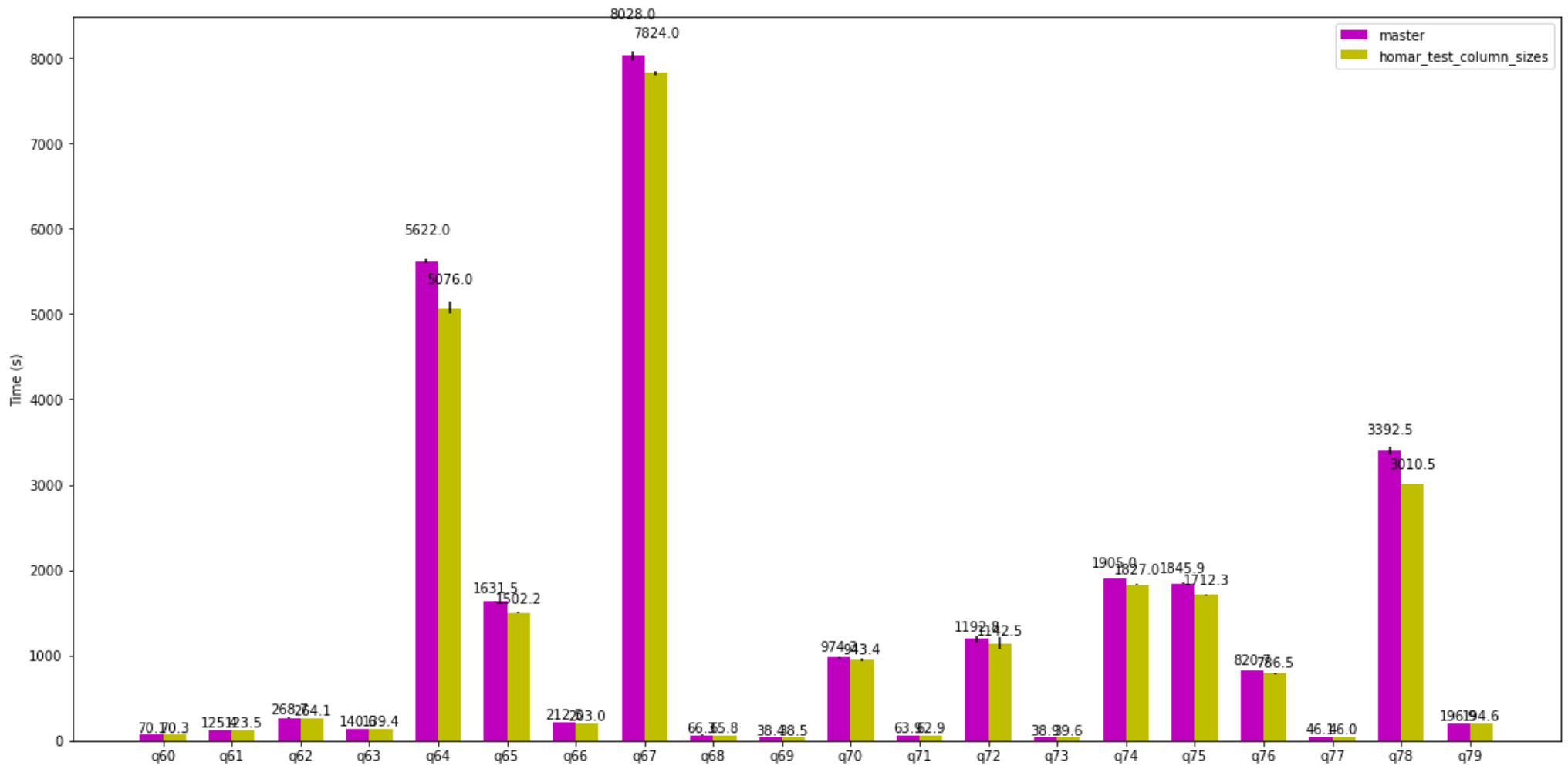
## TPC-DS Comparison (CPU)

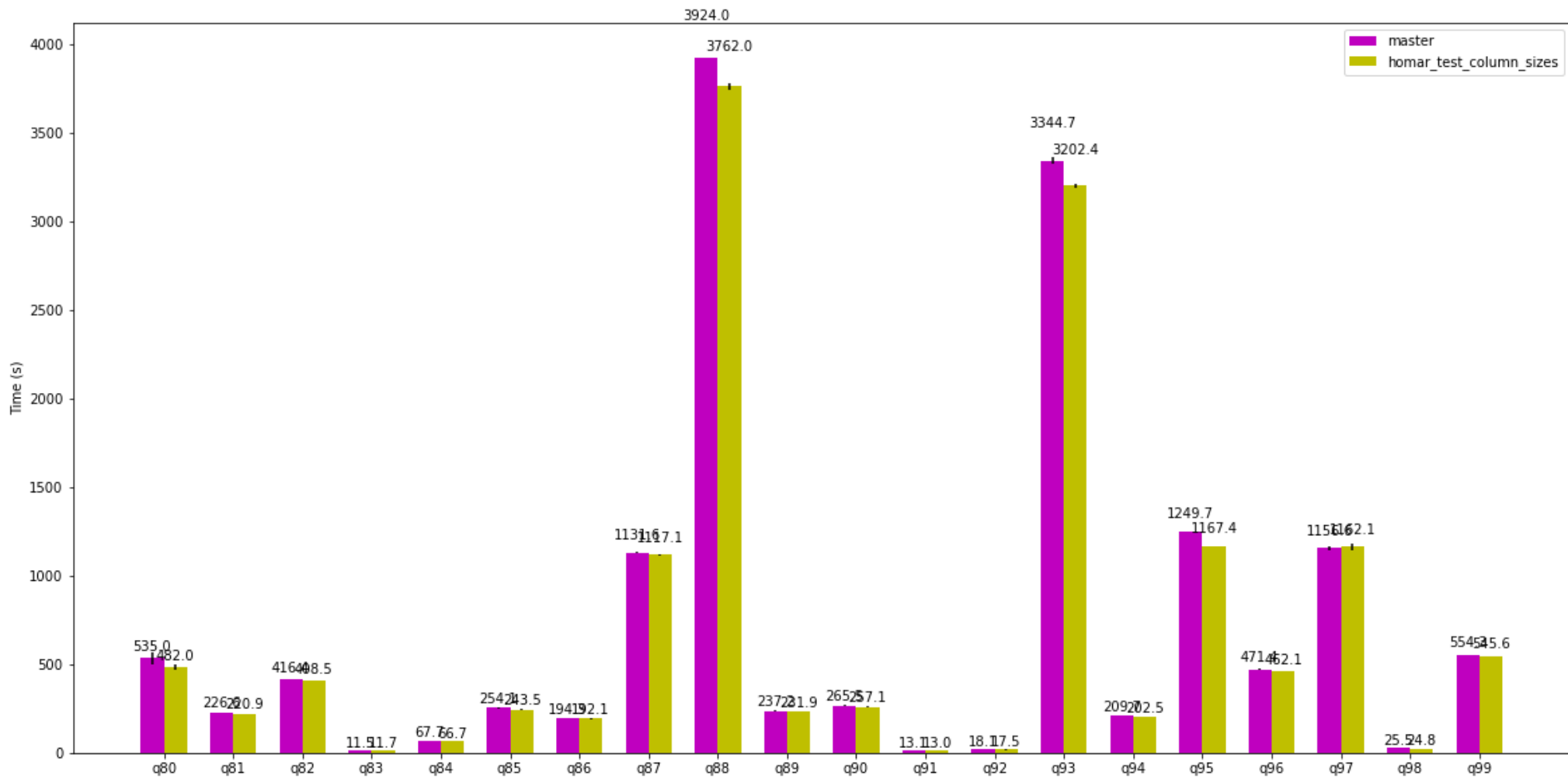












query	master mean	master std.dev	homar_test_column_sizes mean	homar_test_column_sizes std.dev
0 presto/tpcds: q01	212.800000	2.101428	205.700000	3.667697
1 presto/tpcds: q02	1482.600000	8.519155	1466.200000	15.034361
2 presto/tpcds: q03	77.600000	0.309839	89.100000	26.603083
3 presto/tpcds: q04	5340.000000	18.590320	5112.000000	32.199379
4 presto/tpcds: q05	397.800000	34.243131	366.000000	25.804186
5 presto/tpcds: q06	50.135000	0.347030	48.941667	0.179935
6 presto/tpcds: q07	303.400000	2.805708	290.300000	1.164474

	query	master mean	master std.dev	homar_test_column_sizes mean	homar_test_column_sizes std.dev
7	presto/tpcds: q08	80.100000	0.827043	81.200000	1.402854
8	presto/tpcds: q09	3136.600000	27.016439	2805.700000	11.972468
9	presto/tpcds: q10	40.890000	1.275492	41.405000	2.486884
10	presto/tpcds: q11	2801.100000	9.285473	2717.100000	22.372036
11	presto/tpcds: q12	7.255000	0.094181	7.251667	0.059133
12	presto/tpcds: q13	476.300000	5.181120	449.200000	1.995996
13	presto/tpcds: q14	9612.000000	0.000000	9120.000000	18.590320
14	presto/tpcds: q15	55.406667	0.450585	53.568333	0.245391
15	presto/tpcds: q16	469.000000	0.903327	436.100000	2.925064
16	presto/tpcds: q17	203.700000	9.484935	195.000000	4.409082
17	presto/tpcds: q18	235.500000	1.184905	220.500000	2.300435
18	presto/tpcds: q19	58.295000	0.761282	57.930000	1.345957
19	presto/tpcds: q20	15.626667	0.075277	15.266667	0.055737
20	presto/tpcds: q21	11.118333	0.094322	11.163333	0.176824
21	presto/tpcds: q22	583.400000	1.922498	567.700000	3.021920
22	presto/tpcds: q23	10704.000000	18.590320	9678.000000	14.696938
23	presto/tpcds: q24	3194.600000	13.821722	3046.600000	21.632198
24	presto/tpcds: q25	131.700000	8.807951	131.600000	10.811105
25	presto/tpcds: q26	159.100000	2.973886	154.900000	1.033441
26	presto/tpcds: q27	286.200000	4.647580	279.300000	1.244186
27	presto/tpcds: q28	4842.000000	30.119761	3834.000000	19.718012
28	presto/tpcds: q29	285.400000	1.725109	275.200000	0.619677
29	presto/tpcds: q30	118.100000	0.701427	115.300000	0.701427
30	presto/tpcds: q31	356.600000	3.826225	346.800000	4.069398
31	presto/tpcds: q32	49.201667	21.715064	29.980000	0.528545
32	presto/tpcds: q33	47.508333	0.238698	47.416667	0.237543

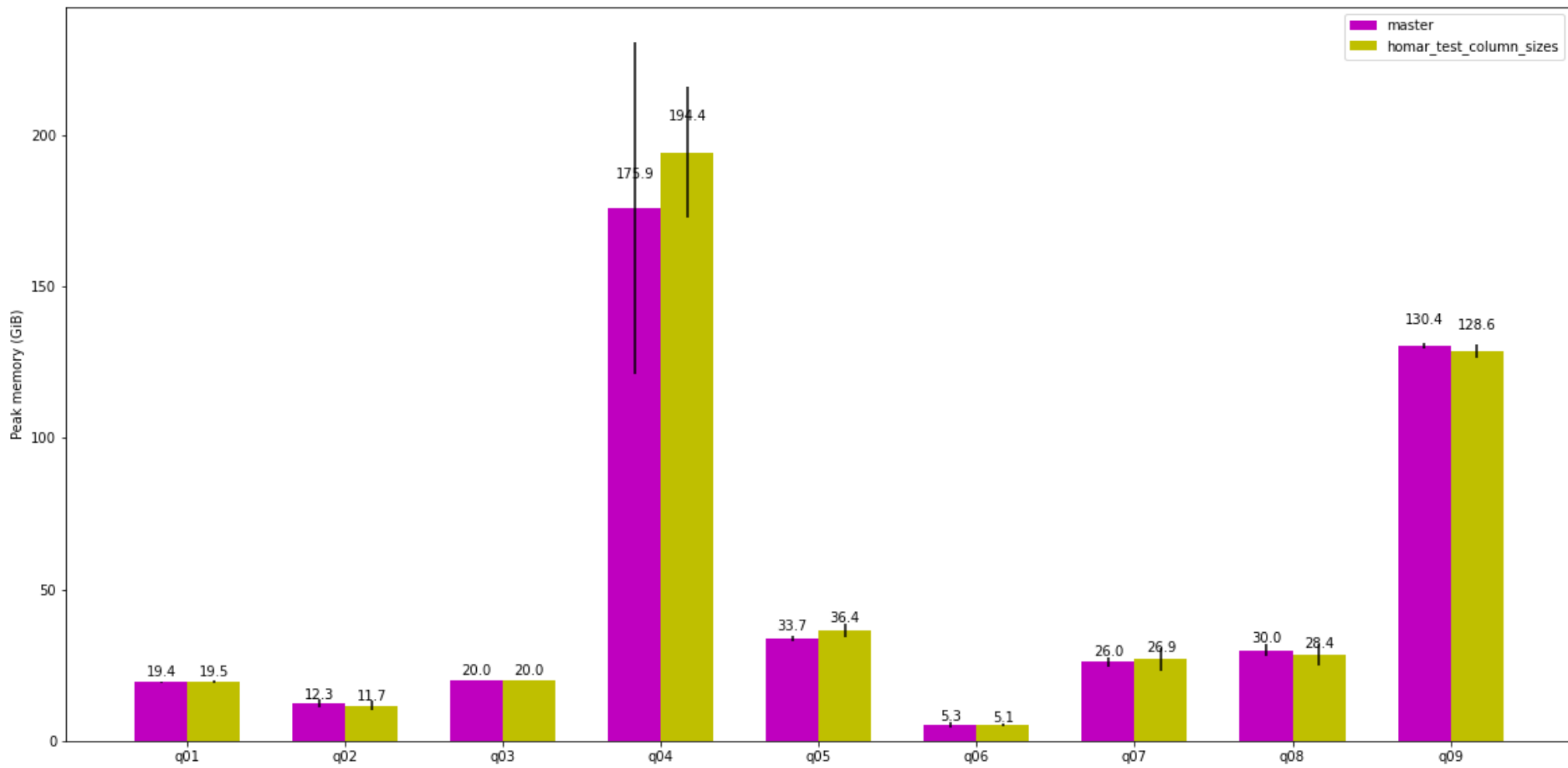
	query	master mean	master std.dev	homar_test_column_sizes mean	homar_test_column_sizes std.dev
33	presto/tpcds: q34	114.300000	1.643168	113.100000	0.827043
34	presto/tpcds: q35	172.200000	1.368211	168.600000	4.663046
35	presto/tpcds: q36	235.500000	1.244186	231.600000	1.003992
36	presto/tpcds: q37	202.800000	0.379473	198.600000	0.758947
37	presto/tpcds: q38	1123.000000	4.045738	1100.900000	3.444996
38	presto/tpcds: q39	42.690000	0.625140	41.871667	0.325602
39	presto/tpcds: q40	221.700000	54.449793	232.000000	24.903012
40	presto/tpcds: q41	1.195000	0.005477	1.210000	0.012649
41	presto/tpcds: q42	25.373333	0.301839	25.141667	0.227017
42	presto/tpcds: q43	264.200000	2.135416	264.500000	1.489966
43	presto/tpcds: q44	1248.800000	7.671245	1214.200000	16.708321
44	presto/tpcds: q45	46.886667	0.721656	46.581667	0.378968
45	presto/tpcds: q46	228.000000	2.244994	220.300000	1.489966
46	presto/tpcds: q47	4032.000000	0.000000	3900.000000	18.590320
47	presto/tpcds: q48	382.100000	5.465162	362.900000	2.442130
48	presto/tpcds: q49	309.600000	3.600000	303.100000	3.295451
49	presto/tpcds: q50	738.900000	1.457395	701.600000	2.201817
50	presto/tpcds: q51	815.200000	11.235658	785.400000	3.539491
51	presto/tpcds: q52	25.745000	0.188759	25.678333	0.299227
52	presto/tpcds: q53	145.000000	1.050714	139.600000	0.489898
53	presto/tpcds: q54	669.100000	3.069202	635.400000	3.351418
54	presto/tpcds: q55	24.256667	0.258741	24.428333	0.194156
55	presto/tpcds: q56	28.210000	0.186655	28.621667	0.339848
56	presto/tpcds: q57	2091.000000	2.244994	1990.500000	8.109994
57	presto/tpcds: q58	39.165000	0.599191	39.890000	0.630619
58	presto/tpcds: q59	2042.400000	2.459268	2002.300000	3.424033

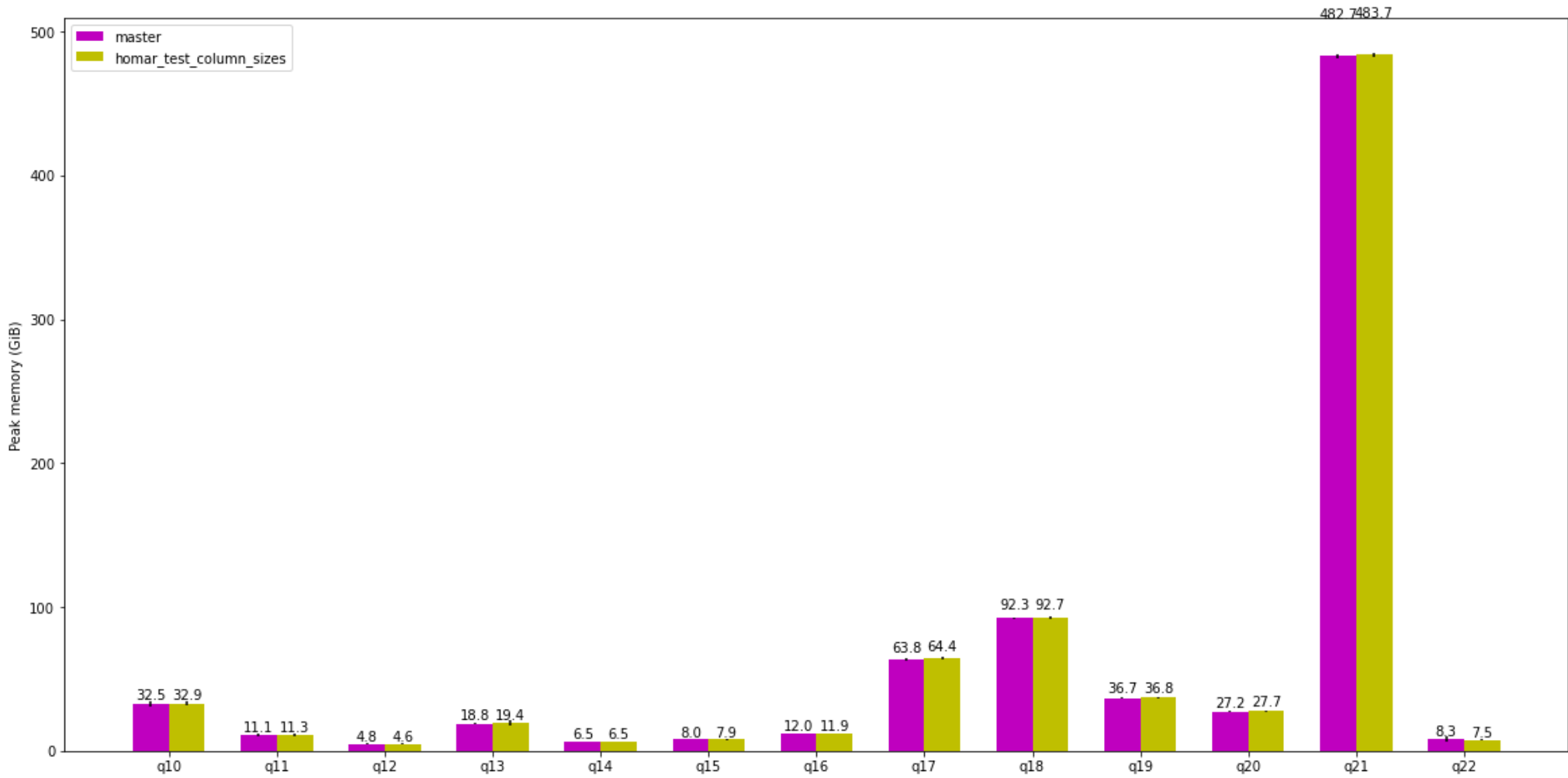
	query	master mean	master std.dev	homar_test_column_sizes mean	homar_test_column_sizes std.dev
59	presto/tpcds: q60	70.100000	0.244949	70.300000	0.701427
60	presto/tpcds: q61	125.400000	0.536656	123.500000	3.745397
61	presto/tpcds: q62	268.700000	6.297619	264.100000	4.684869
62	presto/tpcds: q63	140.600000	0.619677	139.400000	0.309839
63	presto/tpcds: q64	5622.000000	27.099815	5076.000000	64.398758
64	presto/tpcds: q65	1631.500000	8.463333	1502.200000	4.971921
65	presto/tpcds: q66	212.500000	3.465833	203.000000	0.489898
66	presto/tpcds: q67	8028.000000	50.911688	7824.000000	29.393877
67	presto/tpcds: q68	66.300000	1.244186	65.800000	1.239355
68	presto/tpcds: q69	38.356667	0.251370	38.493333	0.417548
69	presto/tpcds: q70	974.300000	8.531120	943.400000	15.823021
70	presto/tpcds: q71	63.900000	1.809972	62.900000	1.164474
71	presto/tpcds: q72	1192.800000	39.801307	1142.500000	70.645679
72	presto/tpcds: q73	38.933333	0.193046	39.555000	0.572669
73	presto/tpcds: q74	1905.000000	2.244994	1827.000000	8.818163
74	presto/tpcds: q75	1845.900000	7.857481	1712.300000	6.897826
75	presto/tpcds: q76	820.700000	3.206868	786.500000	7.154020
76	presto/tpcds: q77	46.098333	0.485815	45.951667	0.250792
77	presto/tpcds: q78	3392.500000	47.486377	3010.500000	3.346042
78	presto/tpcds: q79	196.900000	1.100909	194.600000	1.922498
79	presto/tpcds: q80	535.000000	35.560652	482.000000	13.601176
80	presto/tpcds: q81	226.600000	1.296148	220.900000	0.883176
81	presto/tpcds: q82	416.400000	1.003992	408.500000	0.451664
82	presto/tpcds: q83	11.525000	0.356300	11.655000	0.439898
83	presto/tpcds: q84	67.700000	0.244949	66.700000	0.451664
84	presto/tpcds: q85	254.100000	4.011484	243.500000	4.496665



	query	master mean	master std.dev	homar_test_column_sizes mean	homar_test_column_sizes std.dev
<b>85</b>	presto/tpcds: q86	194.300000	1.100909	192.100000	0.589915
<b>86</b>	presto/tpcds: q87	1131.600000	2.078461	1117.100000	2.126970
<b>87</b>	presto/tpcds: q88	3924.000000	0.000000	3762.000000	19.718012
<b>88</b>	presto/tpcds: q89	237.200000	0.819756	231.900000	0.629285
<b>89</b>	presto/tpcds: q90	265.500000	4.100244	257.100000	4.643705
<b>90</b>	presto/tpcds: q91	13.085000	1.317221	12.958333	1.483879
<b>91</b>	presto/tpcds: q92	18.095000	0.173868	17.483333	0.360592
<b>92</b>	presto/tpcds: q93	3344.700000	21.939827	3202.400000	11.773869
<b>93</b>	presto/tpcds: q94	209.700000	1.300769	202.500000	0.629285
<b>94</b>	presto/tpcds: q95	1249.700000	2.058155	1167.400000	1.501999
<b>95</b>	presto/tpcds: q96	471.400000	2.619924	462.100000	2.382436
<b>96</b>	presto/tpcds: q97	1156.600000	10.923736	1162.100000	17.370665
<b>97</b>	presto/tpcds: q98	25.538333	0.148515	24.803333	0.125645
<b>98</b>	presto/tpcds: q99	554.300000	1.164474	545.600000	0.619677

## TPC-H Comparison (peak Memory)

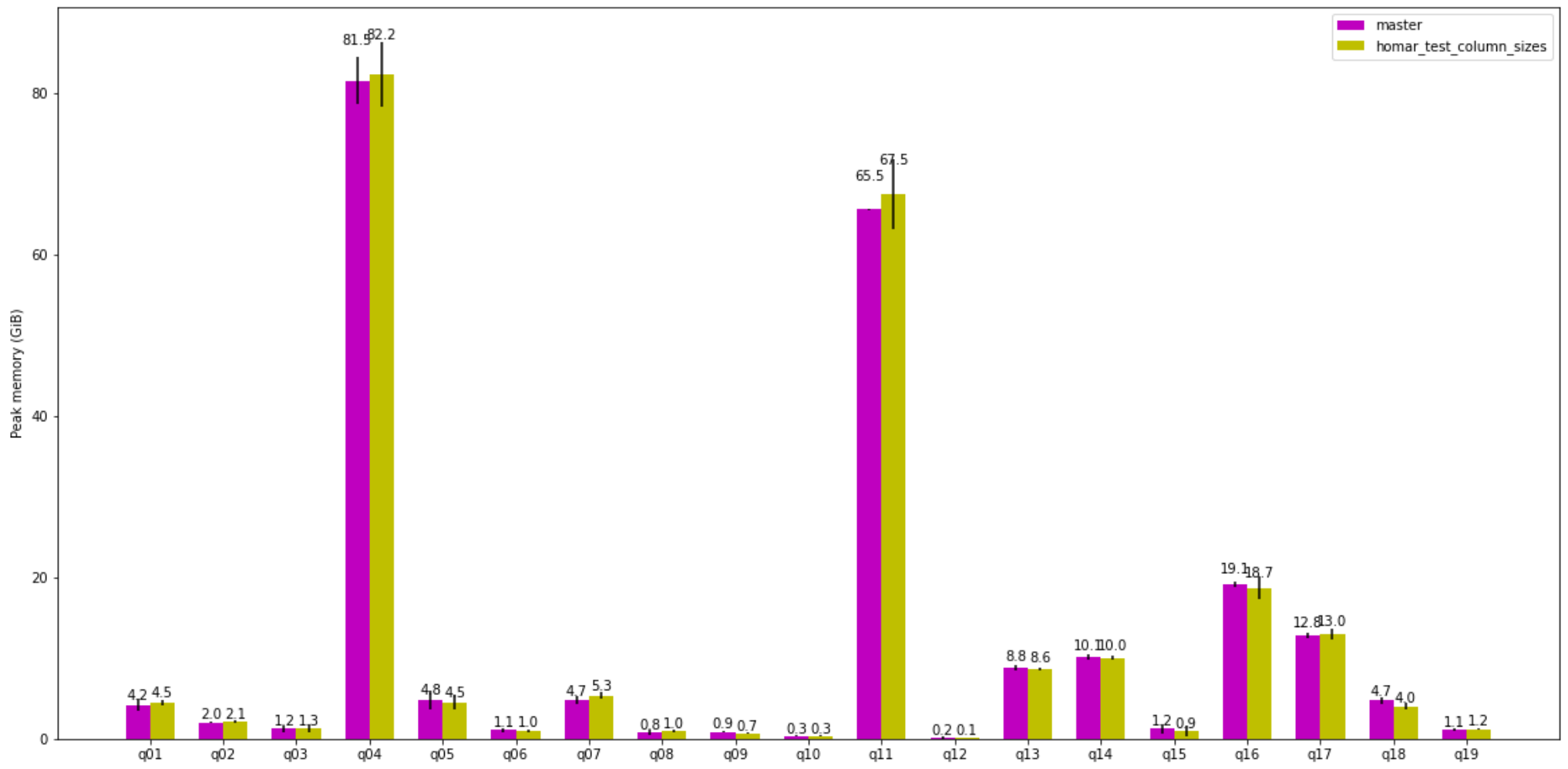


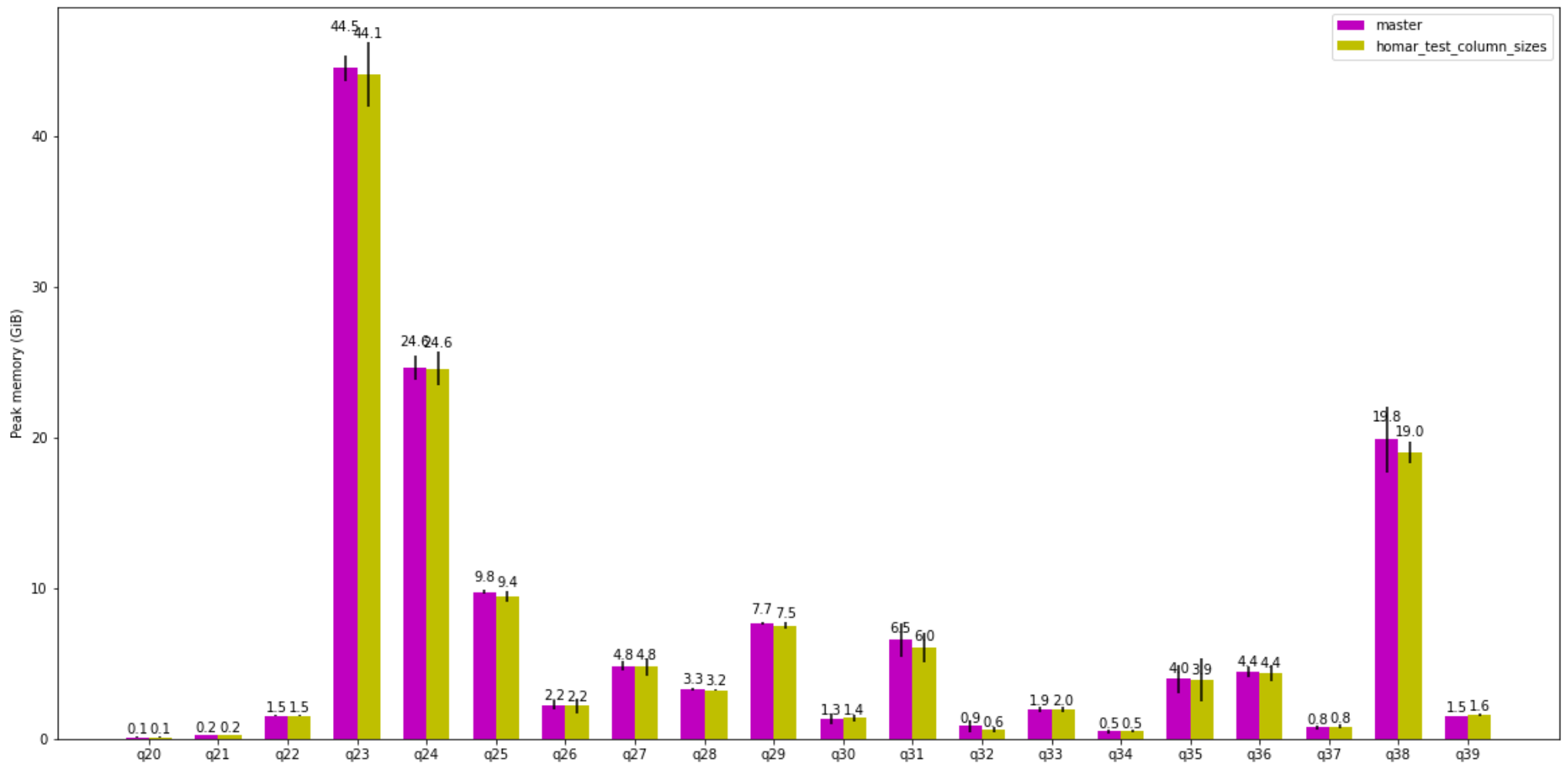


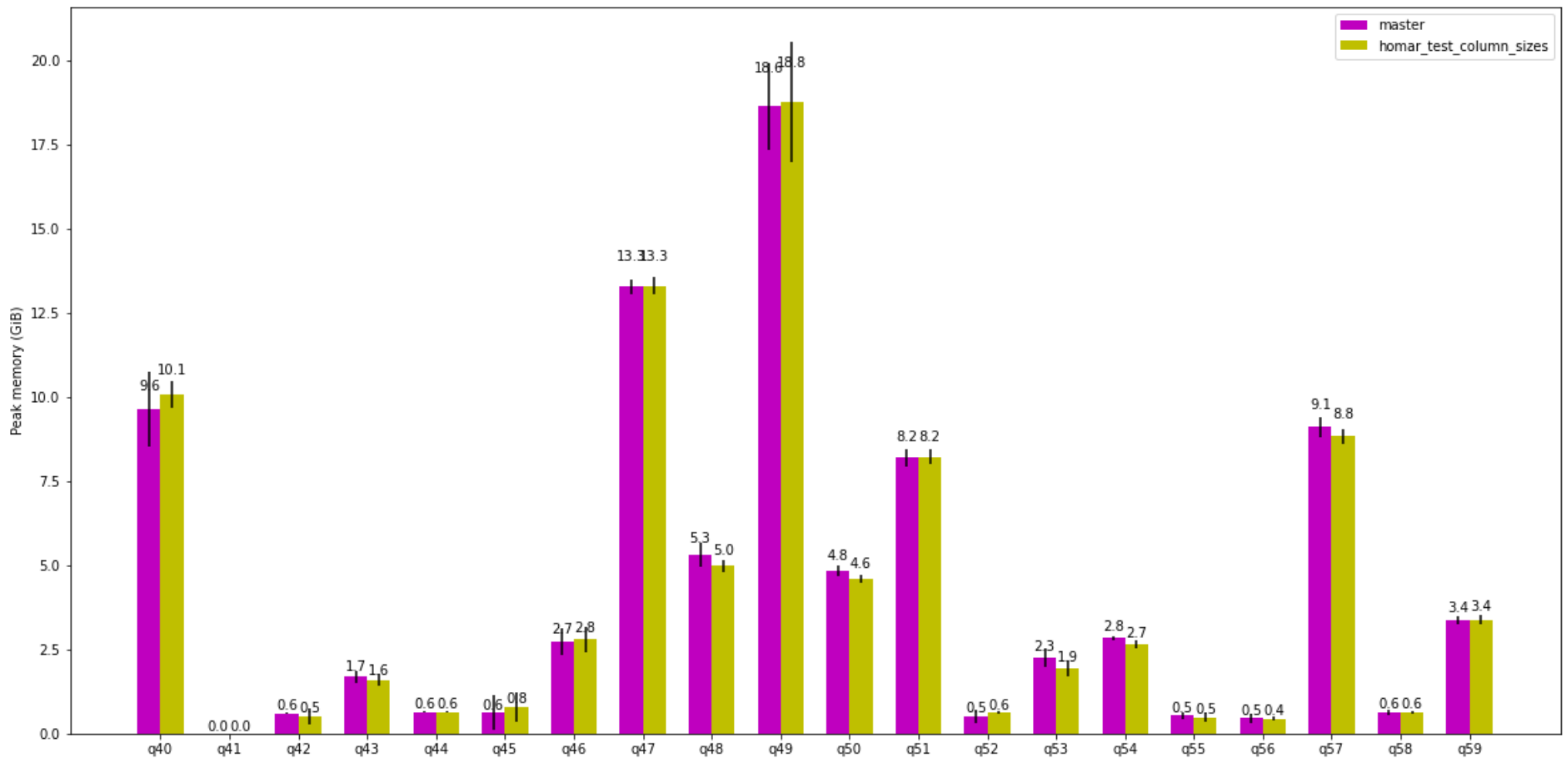
	query	master mean	master std.dev	homar_test_column_sizes mean	homar_test_column_sizes std.dev
0	presto/tpch: q01	19.422 GiB	289.199 MiB	19.524 GiB	340.484 MiB
1	presto/tpch: q02	12.336 GiB	1.360 GiB	11.703 GiB	1.465 GiB
2	presto/tpch: q03	19.972 GiB	206.566 MiB	19.985 GiB	98.175 MiB
3	presto/tpch: q04	175.854 GiB	54.861 GiB	194.383 GiB	21.765 GiB
4	presto/tpch: q05	33.706 GiB	930.387 MiB	36.411 GiB	2.052 GiB
5	presto/tpch: q06	5.307 GiB	742.272 MiB	5.121 GiB	414.404 MiB
6	presto/tpch: q07	26.010 GiB	1.669 GiB	26.921 GiB	3.626 GiB

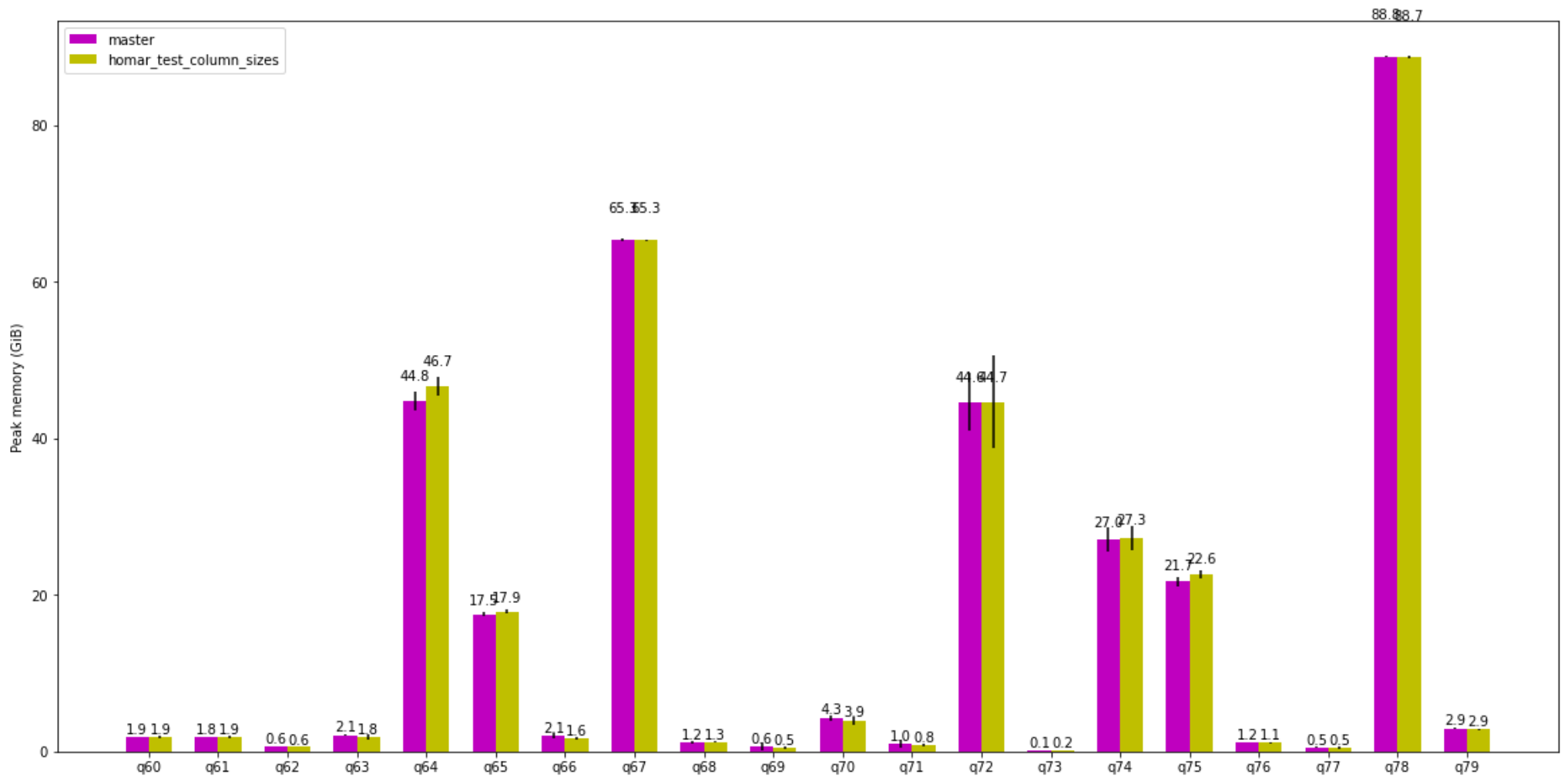
	query	master mean	master std.dev	homar_test_column_sizes mean	homar_test_column_sizes std.dev
7	presto/tpch: q08	29.979 GiB	2.094 GiB	28.380 GiB	3.417 GiB
8	presto/tpch: q09	130.397 GiB	930.395 MiB	128.639 GiB	2.333 GiB
9	presto/tpch: q10	32.456 GiB	1.600 GiB	32.888 GiB	1.297 GiB
10	presto/tpch: q11	11.078 GiB	563.978 MiB	11.283 GiB	832.641 MiB
11	presto/tpch: q12	4.814 GiB	344.245 MiB	4.581 GiB	397.068 MiB
12	presto/tpch: q13	18.756 GiB	543.619 MiB	19.446 GiB	1.760 GiB
13	presto/tpch: q14	6.532 GiB	98.509 MiB	6.476 GiB	168.685 MiB
14	presto/tpch: q15	7.958 GiB	38.628 MiB	7.925 GiB	169.447 MiB
15	presto/tpch: q16	12.019 GiB	112.797 MiB	11.926 GiB	93.043 MiB
16	presto/tpch: q17	63.780 GiB	1.010 GiB	64.373 GiB	779.805 MiB
17	presto/tpch: q18	92.260 GiB	274.820 MiB	92.669 GiB	0.956 GiB
18	presto/tpch: q19	36.728 GiB	353.737 MiB	36.847 GiB	533.069 MiB
19	presto/tpch: q20	27.227 GiB	489.552 MiB	27.696 GiB	313.975 MiB
20	presto/tpch: q21	482.718 GiB	1.670 GiB	483.712 GiB	1.217 GiB
21	presto/tpch: q22	8.267 GiB	1.475 GiB	7.542 GiB	295.581 MiB

## TPC-DS Comparison (peak Memory)

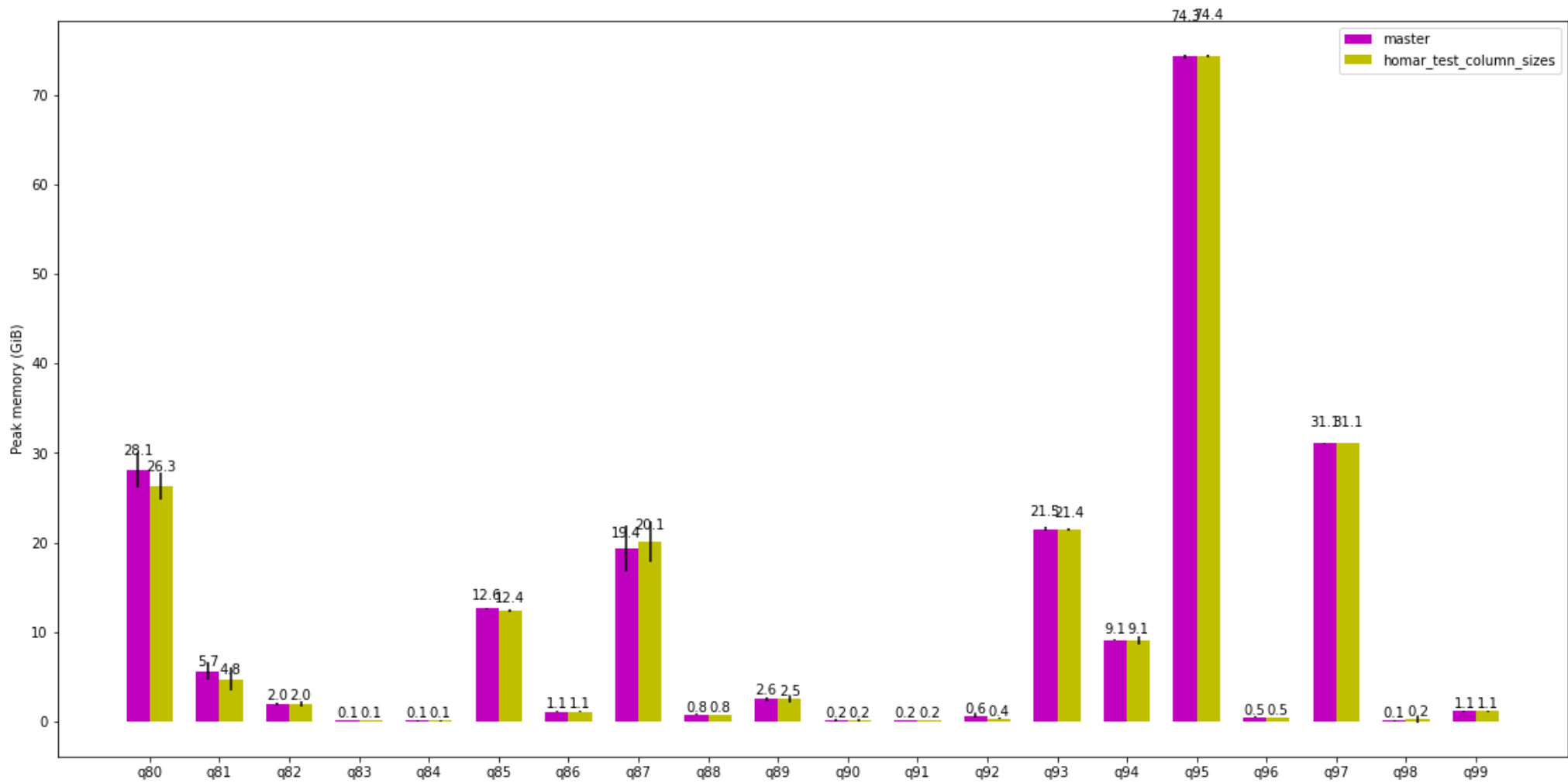












	query	master mean	master std.dev	homar_test_column_sizes mean	homar_test_column_sizes std.dev
0	presto/tpcds: q01	4.174 GiB	729.897 MiB	4.498 GiB	368.041 MiB
1	presto/tpcds: q02	1.982 GiB	88.091 MiB	2.095 GiB	178.866 MiB
2	presto/tpcds: q03	1.218 GiB	360.979 MiB	1.307 GiB	471.267 MiB
3	presto/tpcds: q04	81.471 GiB	2.943 GiB	82.222 GiB	4.027 GiB
4	presto/tpcds: q05	4.826 GiB	1.161 GiB	4.522 GiB	932.606 MiB
5	presto/tpcds: q06	1.090 GiB	222.698 MiB	1.012 GiB	186.819 MiB
6	presto/tpcds: q07	4.741 GiB	508.725 MiB	5.327 GiB	418.536 MiB

	query	master mean	master std.dev	homar_test_column_sizes mean	homar_test_column_sizes std.dev
7	presto/tpcds: q08	859.762 MiB	306.965 MiB	0.972 GiB	239.975 MiB
8	presto/tpcds: q09	893.727 MiB	118.740 MiB	693.573 MiB	96.460 MiB
9	presto/tpcds: q10	353.879 MiB	91.124 MiB	354.568 MiB	112.880 MiB
10	presto/tpcds: q11	65.527 GiB	127.076 MiB	67.469 GiB	4.370 GiB
11	presto/tpcds: q12	206.424 MiB	171.835 MiB	150.967 MiB	66.427 MiB
12	presto/tpcds: q13	8.779 GiB	405.203 MiB	8.628 GiB	139.122 MiB
13	presto/tpcds: q14	10.142 GiB	353.998 MiB	10.044 GiB	333.603 MiB
14	presto/tpcds: q15	1.248 GiB	611.124 MiB	0.943 GiB	695.902 MiB
15	presto/tpcds: q16	19.120 GiB	292.682 MiB	18.666 GiB	1.455 GiB
16	presto/tpcds: q17	12.762 GiB	385.604 MiB	12.969 GiB	604.864 MiB
17	presto/tpcds: q18	4.715 GiB	508.493 MiB	3.980 GiB	425.430 MiB
18	presto/tpcds: q19	1.139 GiB	114.639 MiB	1.166 GiB	91.926 MiB
19	presto/tpcds: q20	115.119 MiB	43.004 MiB	116.159 MiB	32.540 MiB
20	presto/tpcds: q21	255.291 MiB	17.374 MiB	250.655 MiB	19.877 MiB
21	presto/tpcds: q22	1.533 GiB	17.105 MiB	1.539 GiB	14.770 MiB
22	presto/tpcds: q23	44.512 GiB	851.191 MiB	44.089 GiB	2.129 GiB
23	presto/tpcds: q24	24.609 GiB	854.826 MiB	24.572 GiB	1.087 GiB
24	presto/tpcds: q25	9.754 GiB	172.284 MiB	9.441 GiB	324.686 MiB
25	presto/tpcds: q26	2.246 GiB	305.382 MiB	2.188 GiB	496.947 MiB
26	presto/tpcds: q27	4.843 GiB	313.027 MiB	4.788 GiB	590.360 MiB
27	presto/tpcds: q28	3.277 GiB	65.754 MiB	3.224 GiB	41.279 MiB
28	presto/tpcds: q29	7.702 GiB	91.360 MiB	7.505 GiB	232.502 MiB
29	presto/tpcds: q30	1.331 GiB	370.689 MiB	1.385 GiB	208.923 MiB
30	presto/tpcds: q31	6.546 GiB	1.087 GiB	6.047 GiB	0.996 GiB
31	presto/tpcds: q32	886.513 MiB	407.730 MiB	585.870 MiB	187.914 MiB
32	presto/tpcds: q33	1.949 GiB	142.842 MiB	1.976 GiB	181.178 MiB

	query	master mean	master std.dev	homar_test_column_sizes mean	homar_test_column_sizes std.dev
33	presto/tpcds: q34	484.844 MiB	111.400 MiB	527.767 MiB	53.077 MiB
34	presto/tpcds: q35	3.992 GiB	0.942 GiB	3.898 GiB	1.432 GiB
35	presto/tpcds: q36	4.443 GiB	351.553 MiB	4.355 GiB	557.657 MiB
36	presto/tpcds: q37	769.846 MiB	141.259 MiB	835.161 MiB	110.509 MiB
37	presto/tpcds: q38	19.846 GiB	2.158 GiB	18.979 GiB	755.150 MiB
38	presto/tpcds: q39	1.500 GiB	41.023 MiB	1.558 GiB	101.005 MiB
39	presto/tpcds: q40	9.635 GiB	1.125 GiB	10.078 GiB	399.453 MiB
40	presto/tpcds: q41	0.927 MiB	166.467 KiB	1.327 MiB	206.273 KiB
41	presto/tpcds: q42	621.629 MiB	37.875 MiB	522.621 MiB	231.724 MiB
42	presto/tpcds: q43	1.680 GiB	175.822 MiB	1.587 GiB	180.040 MiB
43	presto/tpcds: q44	651.961 MiB	20.161 MiB	650.153 MiB	16.121 MiB
44	presto/tpcds: q45	628.367 MiB	528.955 MiB	807.577 MiB	449.948 MiB
45	presto/tpcds: q46	2.741 GiB	398.885 MiB	2.790 GiB	381.467 MiB
46	presto/tpcds: q47	13.284 GiB	225.204 MiB	13.306 GiB	275.877 MiB
47	presto/tpcds: q48	5.305 GiB	358.607 MiB	4.979 GiB	174.412 MiB
48	presto/tpcds: q49	18.641 GiB	1.284 GiB	18.773 GiB	1.776 GiB
49	presto/tpcds: q50	4.818 GiB	160.179 MiB	4.588 GiB	119.521 MiB
50	presto/tpcds: q51	8.195 GiB	273.081 MiB	8.214 GiB	226.914 MiB
51	presto/tpcds: q52	520.661 MiB	186.705 MiB	629.596 MiB	45.476 MiB
52	presto/tpcds: q53	2.253 GiB	295.937 MiB	1.948 GiB	251.459 MiB
53	presto/tpcds: q54	2.840 GiB	60.731 MiB	2.656 GiB	111.856 MiB
54	presto/tpcds: q55	542.373 MiB	117.525 MiB	487.192 MiB	140.934 MiB
55	presto/tpcds: q56	465.988 MiB	139.288 MiB	444.218 MiB	57.541 MiB
56	presto/tpcds: q57	9.110 GiB	304.592 MiB	8.826 GiB	209.183 MiB
57	presto/tpcds: q58	636.730 MiB	93.181 MiB	639.800 MiB	57.290 MiB
58	presto/tpcds: q59	3.354 GiB	116.698 MiB	3.382 GiB	151.643 MiB

	query	master mean	master std.dev	homar_test_column_sizes mean	homar_test_column_sizes std.dev
59	presto/tpcds: q60	1.853 GiB	73.699 MiB	1.881 GiB	170.258 MiB
60	presto/tpcds: q61	1.821 GiB	47.251 MiB	1.891 GiB	139.344 MiB
61	presto/tpcds: q62	620.234 MiB	26.410 MiB	611.553 MiB	17.853 MiB
62	presto/tpcds: q63	2.096 GiB	114.785 MiB	1.840 GiB	300.386 MiB
63	presto/tpcds: q64	44.773 GiB	1.162 GiB	46.657 GiB	1.168 GiB
64	presto/tpcds: q65	17.512 GiB	267.601 MiB	17.861 GiB	274.581 MiB
65	presto/tpcds: q66	2.064 GiB	305.452 MiB	1.647 GiB	139.933 MiB
66	presto/tpcds: q67	65.300 GiB	186.754 MiB	65.320 GiB	84.557 MiB
67	presto/tpcds: q68	1.163 GiB	203.430 MiB	1.251 GiB	148.665 MiB
68	presto/tpcds: q69	647.913 MiB	475.898 MiB	530.633 MiB	223.474 MiB
69	presto/tpcds: q70	4.264 GiB	292.647 MiB	3.914 GiB	524.868 MiB
70	presto/tpcds: q71	1.031 GiB	522.536 MiB	818.747 MiB	218.323 MiB
71	presto/tpcds: q72	44.641 GiB	3.659 GiB	44.652 GiB	5.954 GiB
72	presto/tpcds: q73	146.333 MiB	40.387 MiB	154.393 MiB	18.448 MiB
73	presto/tpcds: q74	27.048 GiB	1.592 GiB	27.282 GiB	1.591 GiB
74	presto/tpcds: q75	21.714 GiB	604.080 MiB	22.633 GiB	486.815 MiB
75	presto/tpcds: q76	1.167 GiB	50.164 MiB	1.094 GiB	86.187 MiB
76	presto/tpcds: q77	551.202 MiB	83.375 MiB	501.122 MiB	97.702 MiB
77	presto/tpcds: q78	88.755 GiB	69.216 MiB	88.674 GiB	189.585 MiB
78	presto/tpcds: q79	2.913 GiB	89.898 MiB	2.855 GiB	113.977 MiB
79	presto/tpcds: q80	28.120 GiB	1.934 GiB	26.298 GiB	1.494 GiB
80	presto/tpcds: q81	5.652 GiB	1.034 GiB	4.759 GiB	1.270 GiB
81	presto/tpcds: q82	1.969 GiB	165.445 MiB	2.017 GiB	326.722 MiB
82	presto/tpcds: q83	105.204 MiB	13.926 MiB	105.620 MiB	14.432 MiB
83	presto/tpcds: q84	94.651 MiB	46.444 MiB	108.639 MiB	32.444 MiB
84	presto/tpcds: q85	12.625 GiB	95.311 MiB	12.409 GiB	145.148 MiB

	query	master mean	master std.dev	homar_test_column_sizes mean	homar_test_column_sizes std.dev
85	presto/tpcds: q86	1.120 GiB	35.763 MiB	1.112 GiB	90.682 MiB
86	presto/tpcds: q87	19.359 GiB	2.567 GiB	20.093 GiB	2.312 GiB
87	presto/tpcds: q88	829.732 MiB	102.842 MiB	784.671 MiB	65.740 MiB
88	presto/tpcds: q89	2.557 GiB	243.104 MiB	2.508 GiB	335.941 MiB
89	presto/tpcds: q90	200.577 MiB	131.442 MiB	191.854 MiB	127.534 MiB
90	presto/tpcds: q91	159.634 MiB	11.493 MiB	159.244 MiB	22.306 MiB
91	presto/tpcds: q92	661.702 MiB	230.312 MiB	385.715 MiB	110.047 MiB
92	presto/tpcds: q93	21.532 GiB	266.145 MiB	21.397 GiB	152.603 MiB
93	presto/tpcds: q94	9.113 GiB	57.994 MiB	9.080 GiB	420.659 MiB
94	presto/tpcds: q95	74.257 GiB	204.197 MiB	74.364 GiB	128.204 MiB
95	presto/tpcds: q96	513.741 MiB	46.107 MiB	505.549 MiB	43.738 MiB
96	presto/tpcds: q97	31.106 GiB	81.736 MiB	31.116 GiB	67.393 MiB
97	presto/tpcds: q98	96.008 MiB	26.695 MiB	242.562 MiB	402.603 MiB
98	presto/tpcds: q99	1.143 GiB	22.011 MiB	1.142 GiB	14.612 MiB