

## 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	556.611333	973.533333	58037.600000	105295.641667	1.172 TiB	0.949 TiB
1	partitioned-output-fixed-distribution	586.735333	1096.725833	65097.300000	115491.567000	1.174 TiB	0.971 TiB

## Tags

Tag	Label	Color
0 220824-oss-394-S-624fedb3cf-hive_sf1000_orc_part-s1212	master	m
1 partitioned-output-fixed-distribution-oss-394-S-2c1b7252a3-hive_sf1000_orc_part-s1226	partitioned-output-fixed-distribution	c

## FAILED QUERIES

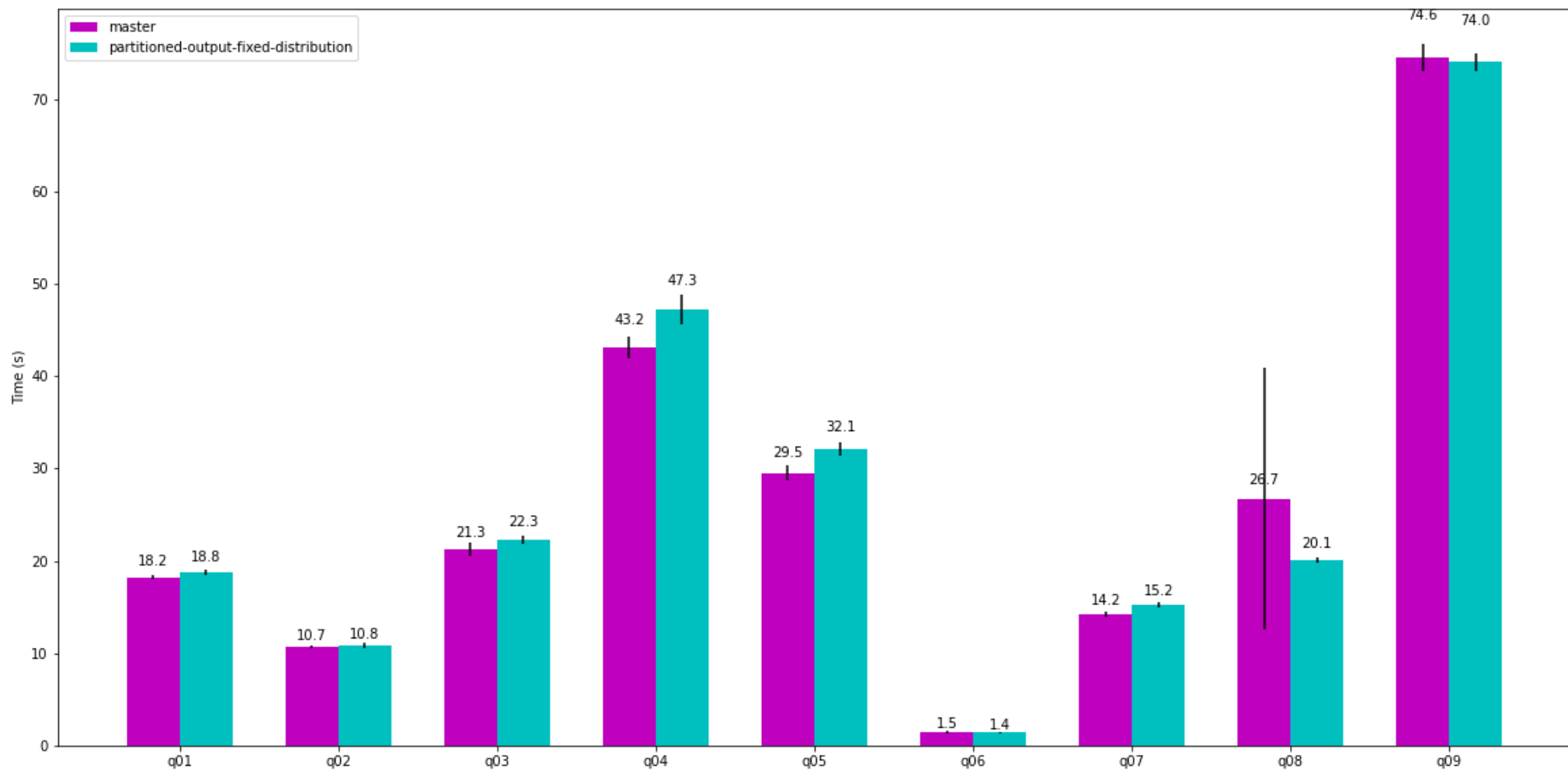
### master

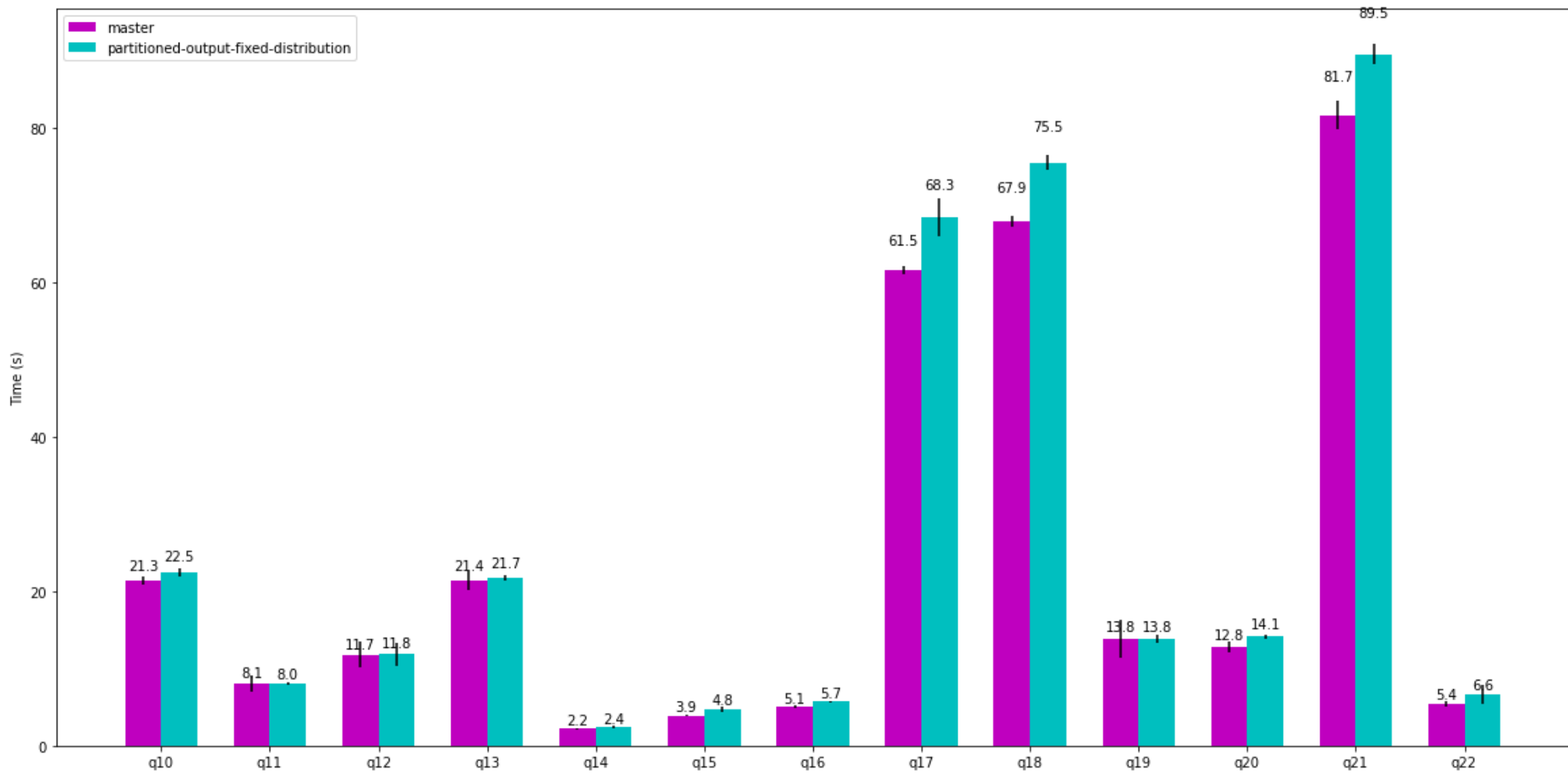
benchmark query mean\_duration std\_dev

### partitioned-output-fixed-distribution

benchmark query mean\_duration std\_dev

## TPC-H Comparison (DURATION)

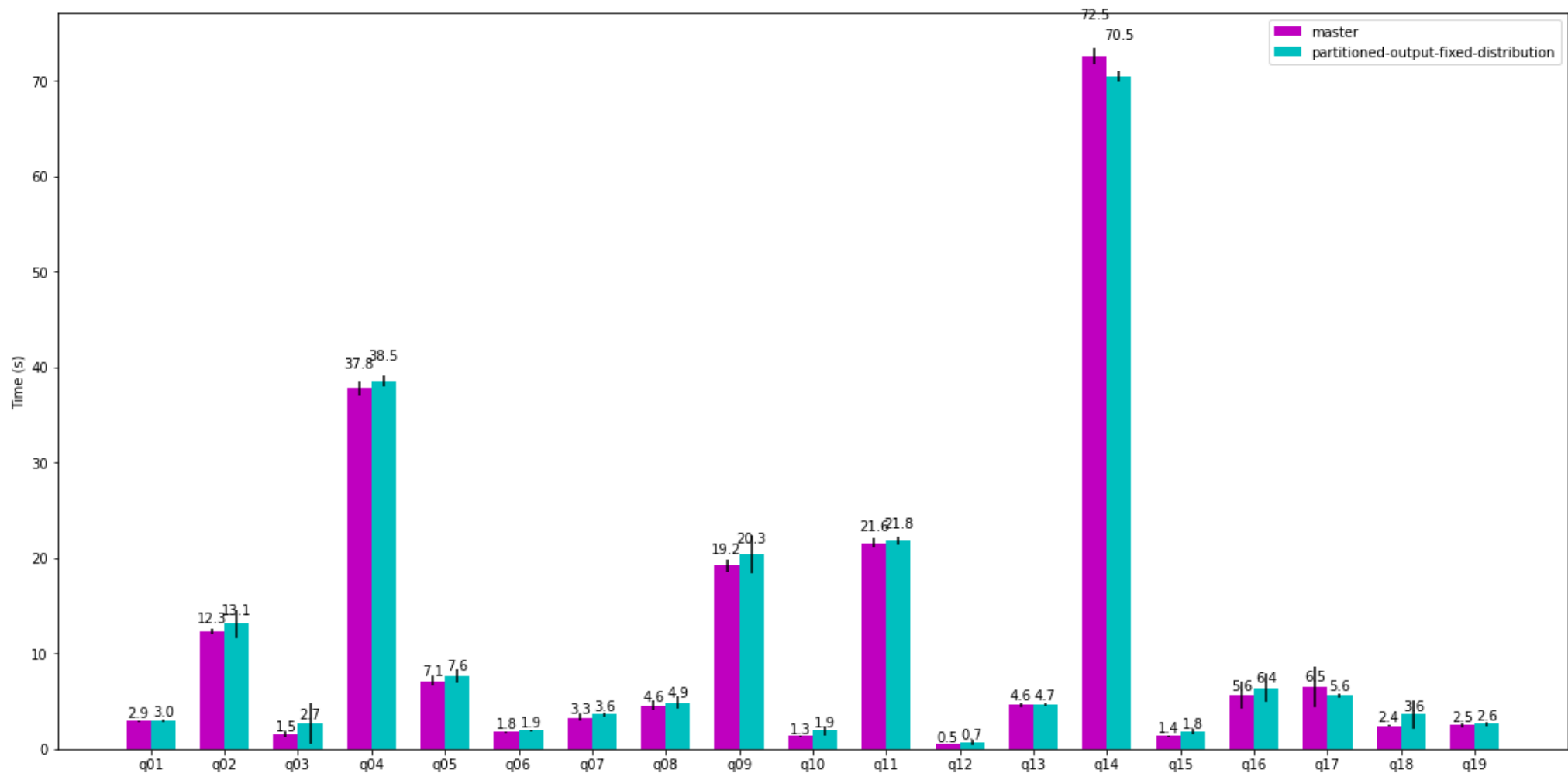


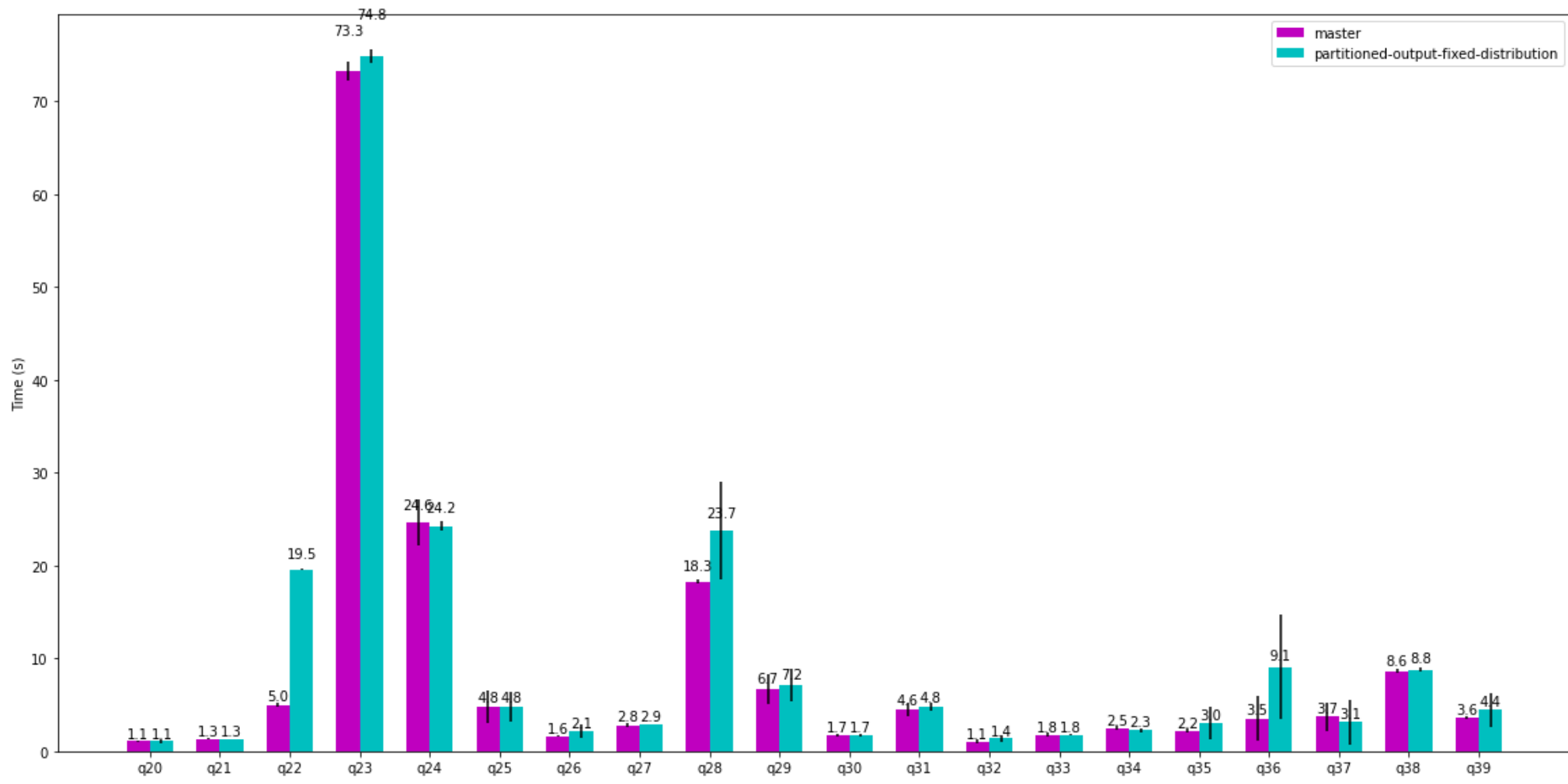


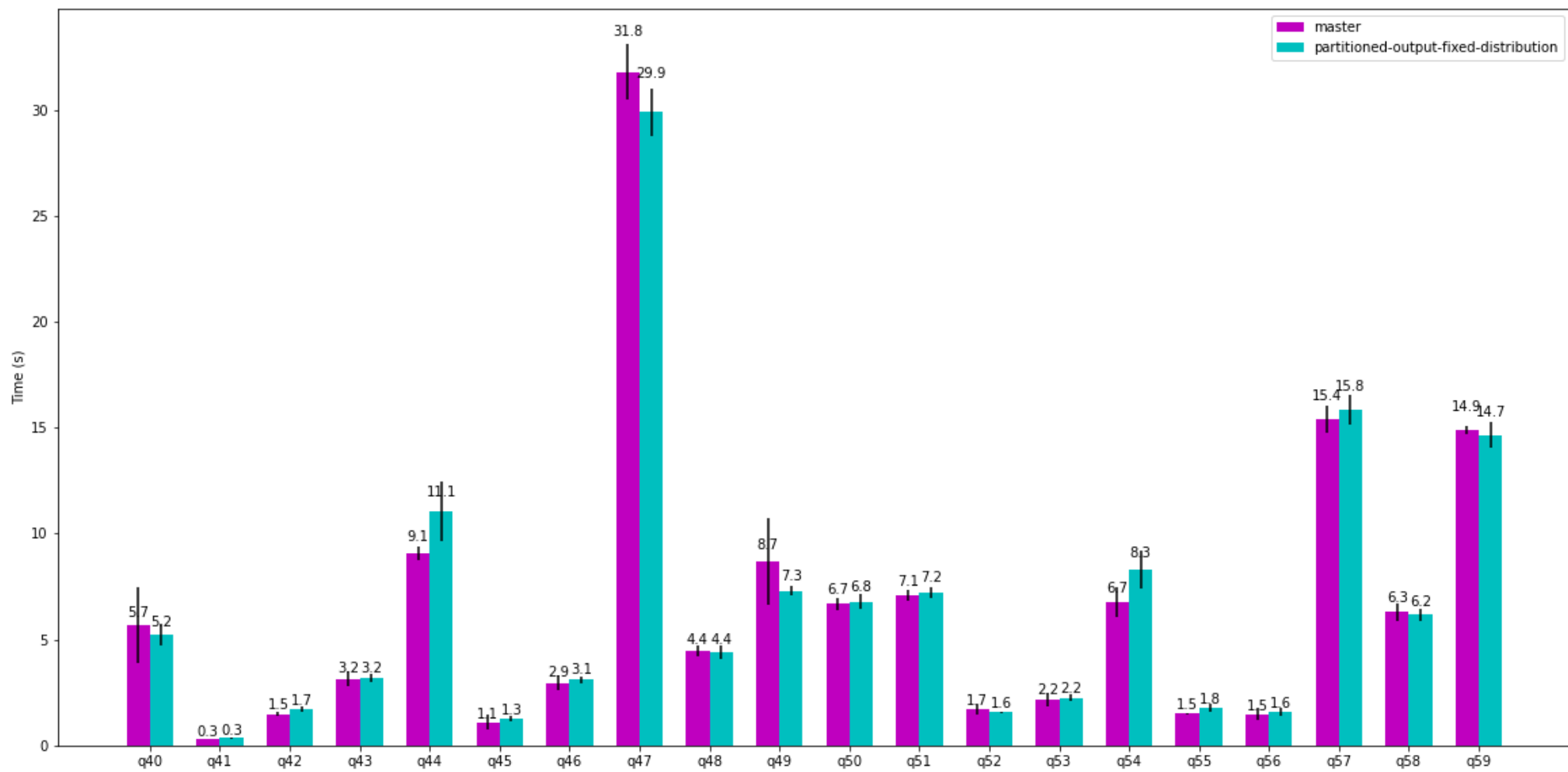
	query	master mean	master std.dev	partitioned-output-fixed-distribution mean	partitioned-output-fixed-distribution std.dev
0	presto/tpch: q01	18.244333	0.188265	18.750833	0.354105
1	presto/tpch: q02	10.664167	0.103588	10.784667	0.278131
2	presto/tpch: q03	21.258167	0.668290	22.297167	0.452421
3	presto/tpch: q04	43.150833	1.188985	47.270333	1.615972
4	presto/tpch: q05	29.512333	0.783587	32.089000	0.693842
5	presto/tpch: q06	1.479000	0.162445	1.411500	0.047732
6	presto/tpch: q07	14.221500	0.307576	15.206833	0.316114

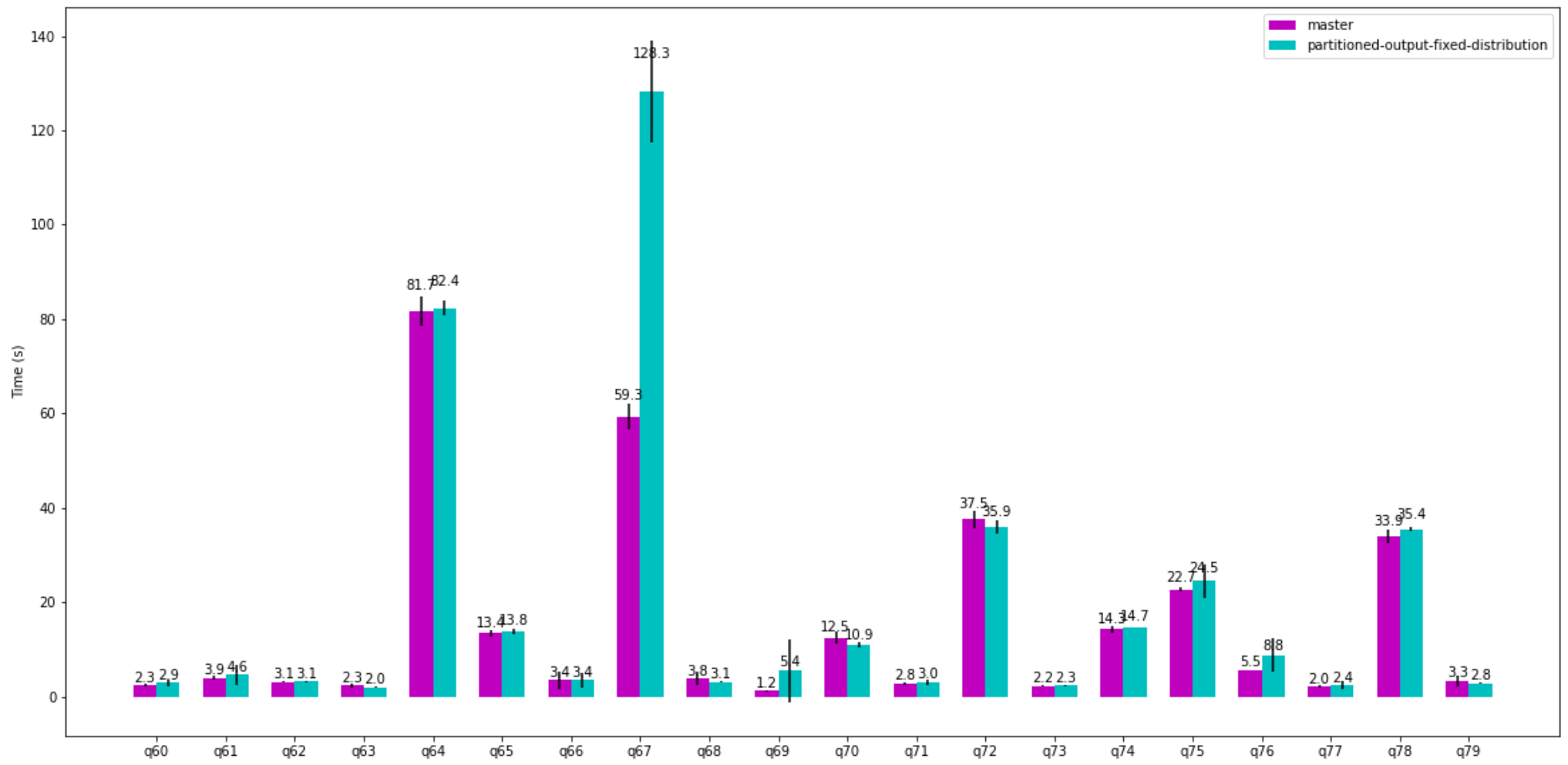
	<b>query</b>	<b>master mean</b>	<b>master std.dev</b>	<b>partitioned-output-fixed-distribution mean</b>	<b>partitioned-output-fixed-distribution std.dev</b>
<b>7</b>	presto/tpch: q08	26.729167	14.143993	20.057000	0.324125
<b>8</b>	presto/tpch: q09	74.559167	1.434220	74.025167	0.974359
<b>9</b>	presto/tpch: q10	21.315500	0.532772	22.464667	0.521199
<b>10</b>	presto/tpch: q11	8.067333	1.003265	8.006500	0.186505
<b>11</b>	presto/tpch: q12	11.726333	1.665819	11.816167	1.520459
<b>12</b>	presto/tpch: q13	21.370667	1.163474	21.689667	0.329685
<b>13</b>	presto/tpch: q14	2.225500	0.084647	2.433667	0.146675
<b>14</b>	presto/tpch: q15	3.884500	0.137318	4.780500	0.340552
<b>15</b>	presto/tpch: q16	5.050667	0.094722	5.704333	0.067802
<b>16</b>	presto/tpch: q17	61.538500	0.542979	68.343833	2.447304
<b>17</b>	presto/tpch: q18	67.947000	0.702141	75.508500	0.962871
<b>18</b>	presto/tpch: q19	13.782833	2.473111	13.833500	0.463189
<b>19</b>	presto/tpch: q20	12.810833	0.715091	14.124667	0.242108
<b>20</b>	presto/tpch: q21	81.662167	1.846542	89.515000	1.347452
<b>21</b>	presto/tpch: q22	5.410833	0.356967	6.621833	1.242316

## TPC-DS Comparison (DURATION)

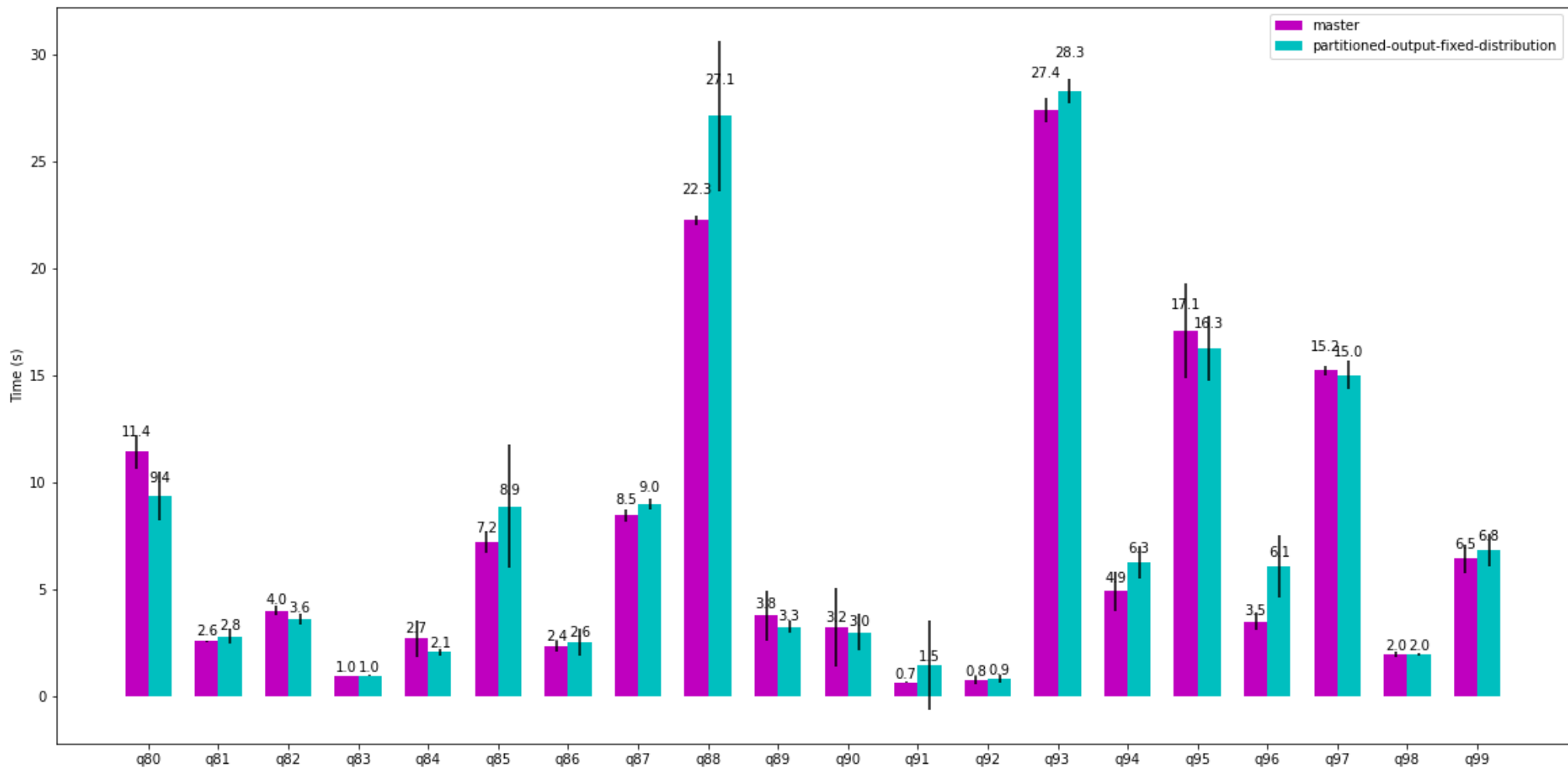












	query	master mean	master std.dev	partitioned-output-fixed-distribution mean	partitioned-output-fixed-distribution std.dev
0	presto/tpcds: q01	2.909667	0.083828	2.972667	0.167871
1	presto/tpcds: q02	12.337167	0.244145	13.098333	1.454072
2	presto/tpcds: q03	1.505333	0.248699	2.710500	2.108840
3	presto/tpcds: q04	37.773167	0.750757	38.509000	0.547212
4	presto/tpcds: q05	7.129333	0.453795	7.588667	0.731934
5	presto/tpcds: q06	1.772833	0.108790	1.887500	0.115722
6	presto/tpcds: q07	3.301167	0.313393	3.597000	0.222237

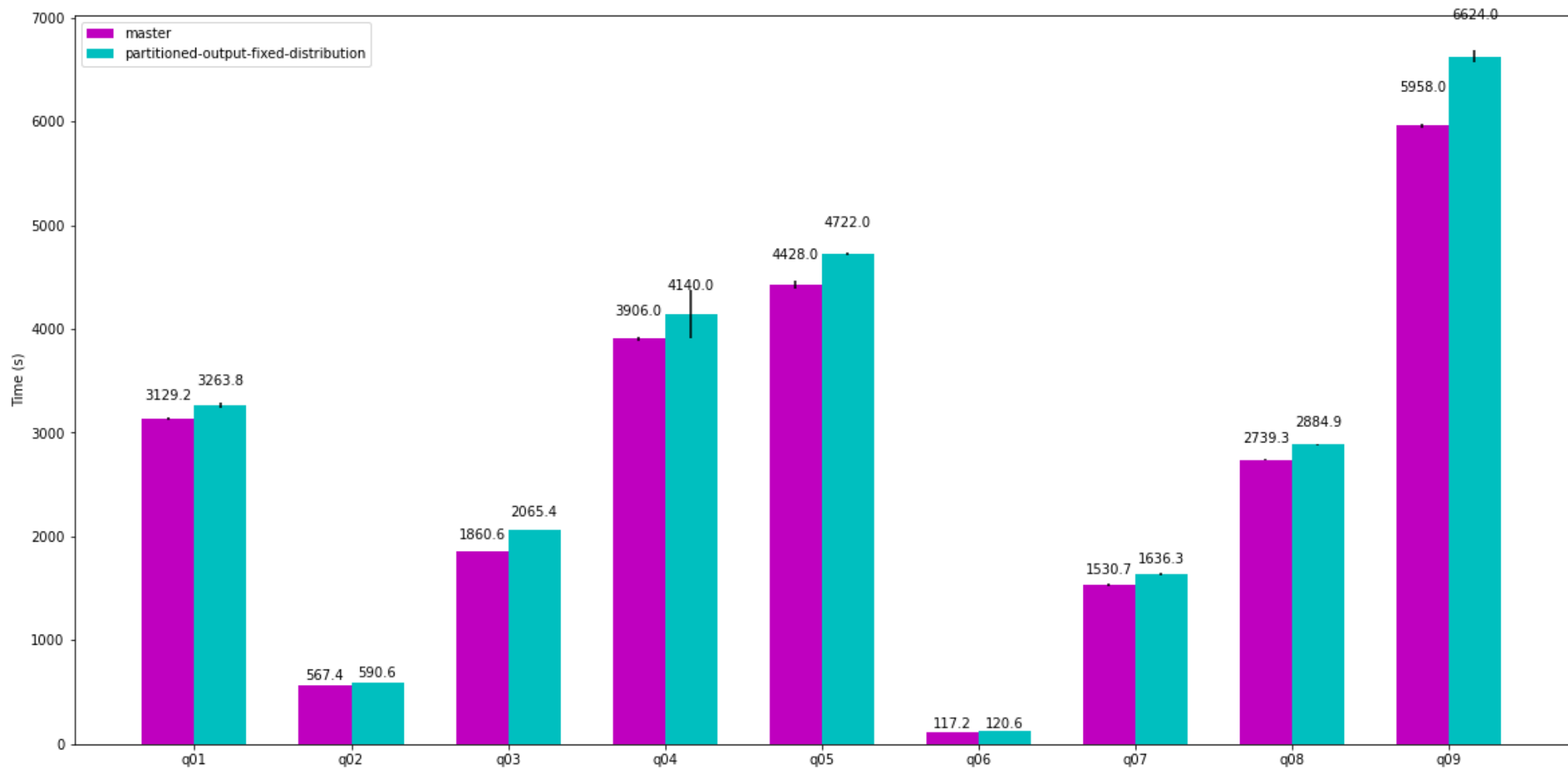
	query	master mean	master std.dev	partitioned-output-fixed-distribution mean	partitioned-output-fixed-distribution std.dev
7	presto/tpcds: q08	4.571000	0.525952	4.862333	0.662839
8	presto/tpcds: q09	19.201500	0.605708	20.336333	1.990694
9	presto/tpcds: q10	1.331167	0.053656	1.929000	0.495265
10	presto/tpcds: q11	21.554667	0.487323	21.829000	0.417856
11	presto/tpcds: q12	0.496500	0.022845	0.671000	0.285398
12	presto/tpcds: q13	4.613833	0.241733	4.658667	0.135696
13	presto/tpcds: q14	72.537333	0.862639	70.497667	0.571125
14	presto/tpcds: q15	1.353333	0.079442	1.838500	0.249441
15	presto/tpcds: q16	5.641833	1.356586	6.419833	1.513647
16	presto/tpcds: q17	6.512167	2.129762	5.586000	0.170490
17	presto/tpcds: q18	2.442333	0.074597	3.605000	1.534489
18	presto/tpcds: q19	2.487333	0.179500	2.615833	0.242815
19	presto/tpcds: q20	1.070833	0.058019	1.083500	0.249957
20	presto/tpcds: q21	1.336833	0.040524	1.324500	0.018317
21	presto/tpcds: q22	4.980667	0.187286	19.530000	0.073550
22	presto/tpcds: q23	73.257000	1.004189	74.841333	0.723794
23	presto/tpcds: q24	24.601333	2.453902	24.236667	0.519442
24	presto/tpcds: q25	4.802833	1.700033	4.770833	1.563970
25	presto/tpcds: q26	1.631167	0.106652	2.142167	0.767961
26	presto/tpcds: q27	2.796167	0.176108	2.882500	0.059443
27	presto/tpcds: q28	18.275333	0.236767	23.745833	5.307637
28	presto/tpcds: q29	6.723500	1.590821	7.154833	1.738446
29	presto/tpcds: q30	1.704167	0.147566	1.689667	0.114603
30	presto/tpcds: q31	4.551167	0.733165	4.787667	0.479908
31	presto/tpcds: q32	1.061833	0.281498	1.394000	0.382915
32	presto/tpcds: q33	1.793333	0.174009	1.755667	0.099745

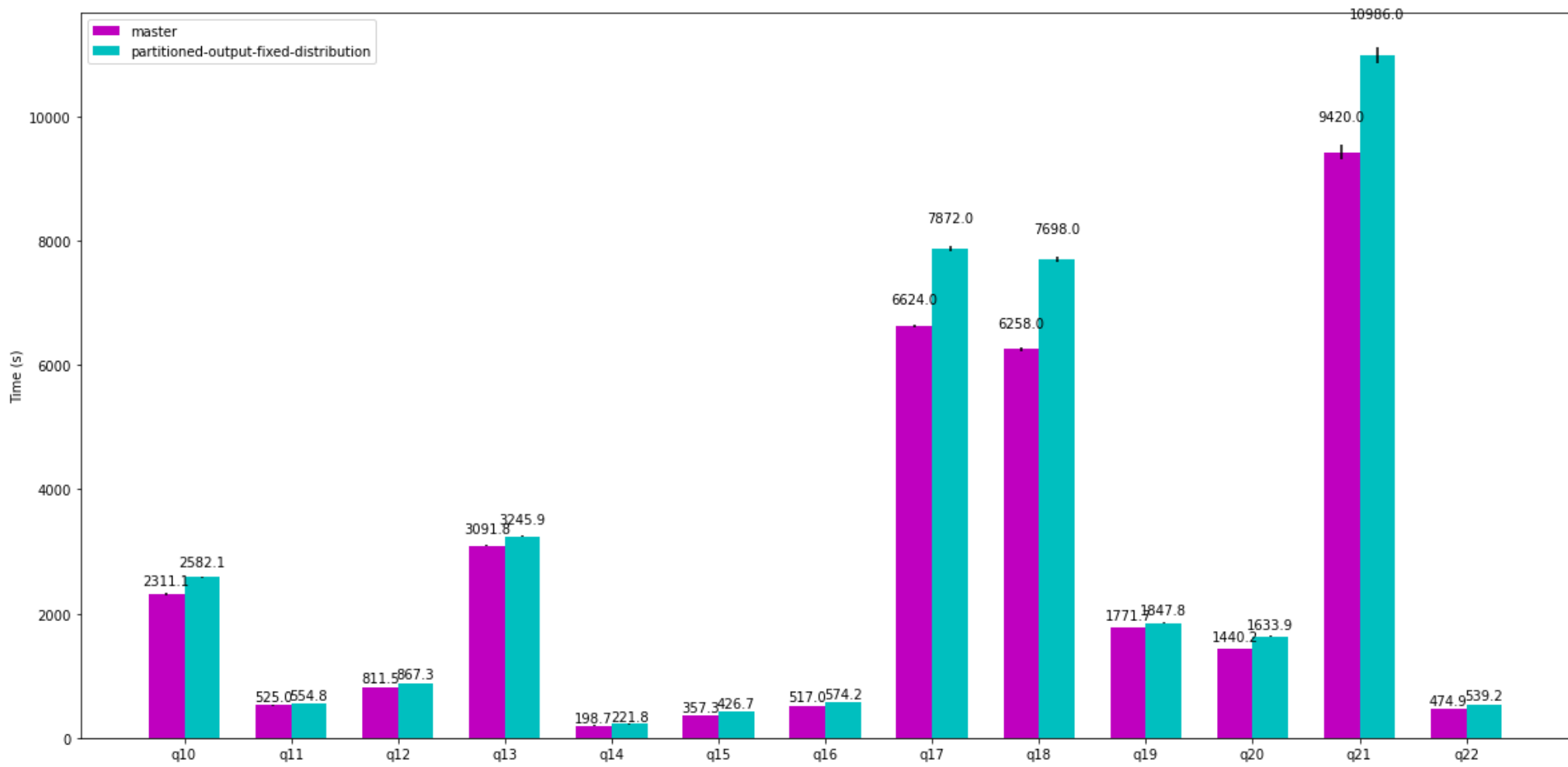
	query	master mean	master std.dev	partitioned-output-fixed-distribution mean	partitioned-output-fixed-distribution std.dev
33	presto/tpcds: q34	2.503500	0.211838	2.257333	0.252515
34	presto/tpcds: q35	2.209167	0.174759	3.035333	1.719060
35	presto/tpcds: q36	3.542667	2.448285	9.062333	5.608085
36	presto/tpcds: q37	3.699833	1.592498	3.121167	2.348585
37	presto/tpcds: q38	8.619833	0.211807	8.775833	0.225438
38	presto/tpcds: q39	3.595167	0.153523	4.430500	1.877216
39	presto/tpcds: q40	5.670667	1.775046	5.212667	0.511268
40	presto/tpcds: q41	0.301833	0.016068	0.343833	0.027228
41	presto/tpcds: q42	1.485833	0.113090	1.713167	0.138680
42	presto/tpcds: q43	3.153833	0.342267	3.170833	0.206409
43	presto/tpcds: q44	9.078667	0.306561	11.083333	1.404097
44	presto/tpcds: q45	1.103500	0.323899	1.257333	0.124941
45	presto/tpcds: q46	2.949333	0.335255	3.100667	0.165669
46	presto/tpcds: q47	31.796833	1.324484	29.910167	1.103014
47	presto/tpcds: q48	4.444833	0.251580	4.424000	0.315101
48	presto/tpcds: q49	8.684000	2.049412	7.310000	0.229651
49	presto/tpcds: q50	6.685000	0.276150	6.796833	0.350357
50	presto/tpcds: q51	7.084833	0.274223	7.220500	0.268382
51	presto/tpcds: q52	1.720500	0.279712	1.561833	0.050823
52	presto/tpcds: q53	2.157500	0.323178	2.244833	0.169316
53	presto/tpcds: q54	6.740333	0.704500	8.311833	0.911363
54	presto/tpcds: q55	1.501667	0.044711	1.773667	0.213056
55	presto/tpcds: q56	1.470167	0.282299	1.589333	0.188065
56	presto/tpcds: q57	15.392000	0.651928	15.840500	0.688259
57	presto/tpcds: q58	6.294167	0.420290	6.166500	0.287602
58	presto/tpcds: q59	14.888667	0.215604	14.657000	0.609526

	query	master mean	master std.dev	partitioned-output-fixed-distribution mean	partitioned-output-fixed-distribution std.dev
59	presto/tpcds: q60	2.332667	0.271428	2.885833	0.606936
60	presto/tpcds: q61	3.940000	0.393918	4.602833	2.076108
61	presto/tpcds: q62	3.117167	0.235266	3.140667	0.157281
62	presto/tpcds: q63	2.344000	0.378866	1.963667	0.167696
63	presto/tpcds: q64	81.680333	3.039788	82.364500	1.653258
64	presto/tpcds: q65	13.422000	0.650250	13.804667	0.513294
65	presto/tpcds: q66	3.428333	1.857856	3.438167	1.603728
66	presto/tpcds: q67	59.329167	2.766463	128.276833	10.769472
67	presto/tpcds: q68	3.787667	1.425686	3.128667	0.074245
68	presto/tpcds: q69	1.173667	0.060974	5.426167	6.719962
69	presto/tpcds: q70	12.500667	1.179888	10.898500	0.549798
70	presto/tpcds: q71	2.809667	0.291523	3.023667	0.503376
71	presto/tpcds: q72	37.547667	1.788050	35.902000	1.489925
72	presto/tpcds: q73	2.247833	0.044602	2.284500	0.111213
73	presto/tpcds: q74	14.274500	0.679247	14.706833	0.069205
74	presto/tpcds: q75	22.721667	0.351189	24.523167	3.511951
75	presto/tpcds: q76	5.534167	0.114241	8.777000	3.555077
76	presto/tpcds: q77	2.016000	0.286277	2.421000	0.960210
77	presto/tpcds: q78	33.929667	1.485555	35.433167	0.442542
78	presto/tpcds: q79	3.262167	1.057344	2.781333	0.162276
79	presto/tpcds: q80	11.450000	0.790176	9.396333	1.125835
80	presto/tpcds: q81	2.593167	0.043568	2.833833	0.358048
81	presto/tpcds: q82	4.018500	0.221670	3.611500	0.243805
82	presto/tpcds: q83	0.971500	0.014816	1.004000	0.026721
83	presto/tpcds: q84	2.717167	0.841192	2.096167	0.163655
84	presto/tpcds: q85	7.222000	0.519036	8.904500	2.857961

	query	master mean	master std.dev	partitioned-output-fixed-distribution mean	partitioned-output-fixed-distribution std.dev
<b>85</b>	presto/tpcds: q86	2.350833	0.257596	2.565500	0.645642
<b>86</b>	presto/tpcds: q87	8.485833	0.292577	8.994000	0.250835
<b>87</b>	presto/tpcds: q88	22.286833	0.219139	27.149167	3.503266
<b>88</b>	presto/tpcds: q89	3.798333	1.192702	3.282500	0.298783
<b>89</b>	presto/tpcds: q90	3.239500	1.846070	3.016167	0.862344
<b>90</b>	presto/tpcds: q91	0.685667	0.013721	1.463667	2.076400
<b>91</b>	presto/tpcds: q92	0.798333	0.182949	0.857667	0.199412
<b>92</b>	presto/tpcds: q93	27.438000	0.578165	28.324333	0.572033
<b>93</b>	presto/tpcds: q94	4.938333	0.937695	6.271000	0.760658
<b>94</b>	presto/tpcds: q95	17.111500	2.210739	16.264000	1.519736
<b>95</b>	presto/tpcds: q96	3.535000	0.395615	6.115000	1.470697
<b>96</b>	presto/tpcds: q97	15.242833	0.227635	15.048667	0.661957
<b>97</b>	presto/tpcds: q98	1.966167	0.116680	1.971667	0.055920
<b>98</b>	presto/tpcds: q99	6.452667	0.673580	6.849667	0.739716

## TPC-H Comparison (CPU)



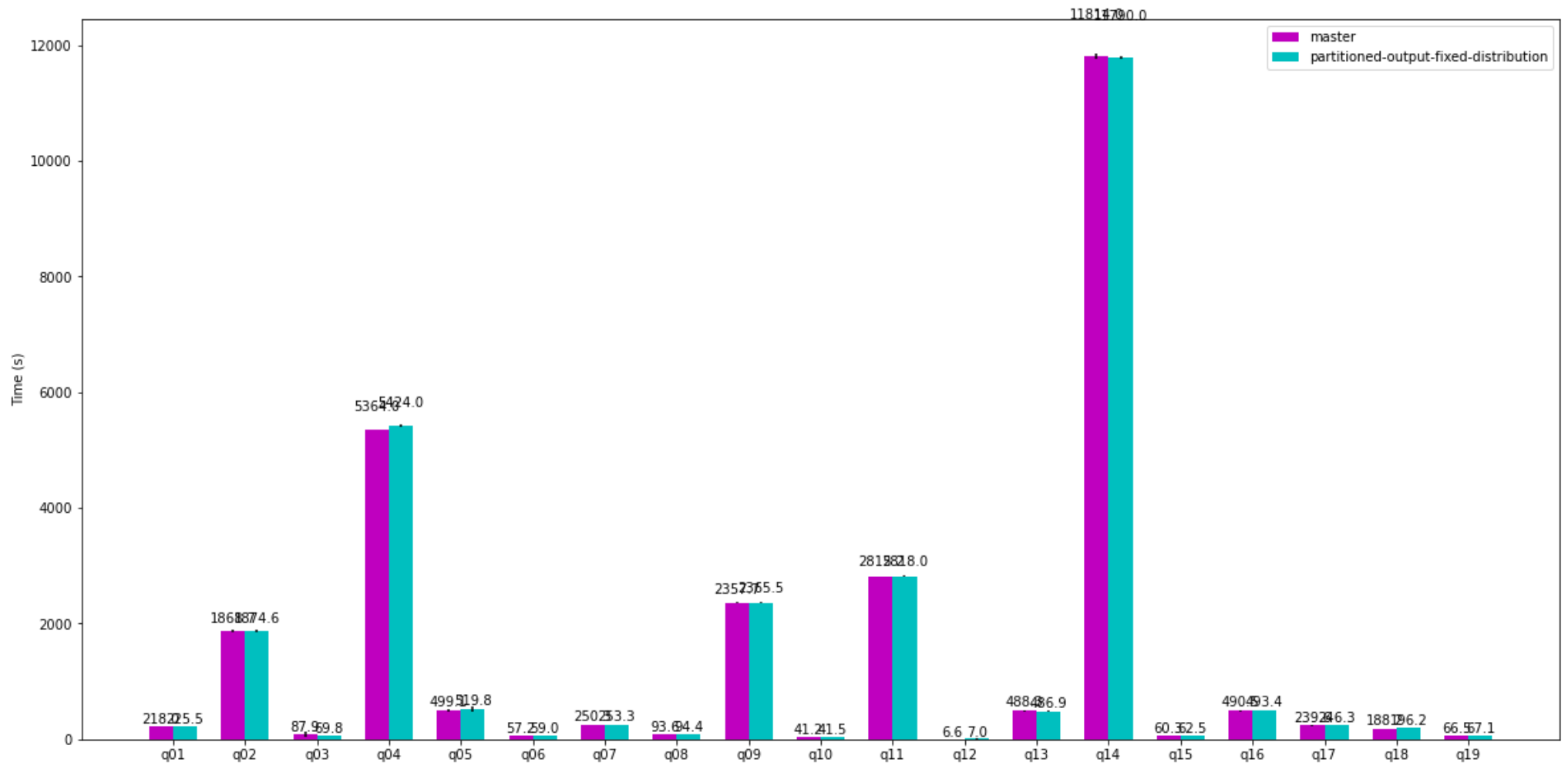


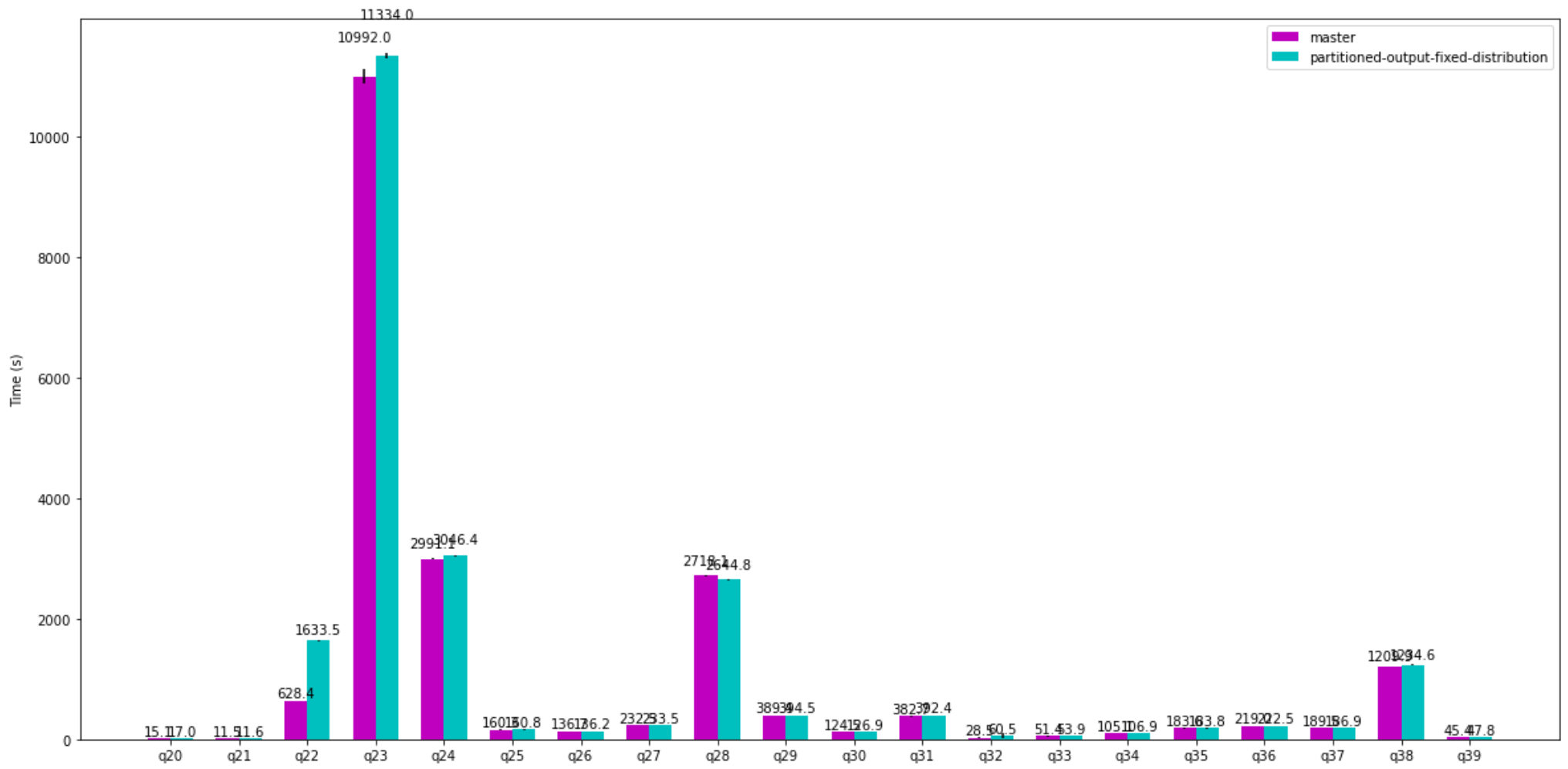
	query	master mean	master std.dev	partitioned-output-fixed-distribution mean	partitioned-output-fixed-distribution std.dev
0	presto/tpch: q01	3129.2	13.601176	3263.8	19.698528
1	presto/tpch: q02	567.4	1.639512	590.6	1.350555
2	presto/tpch: q03	1860.6	1.738965	2065.4	2.727636
3	presto/tpch: q04	3906.0	19.718012	4140.0	232.193023
4	presto/tpch: q05	4428.0	39.436024	4722.0	14.696938
5	presto/tpch: q06	117.2	0.309839	120.6	0.379473
6	presto/tpch: q07	1530.7	11.875858	1636.3	7.963667

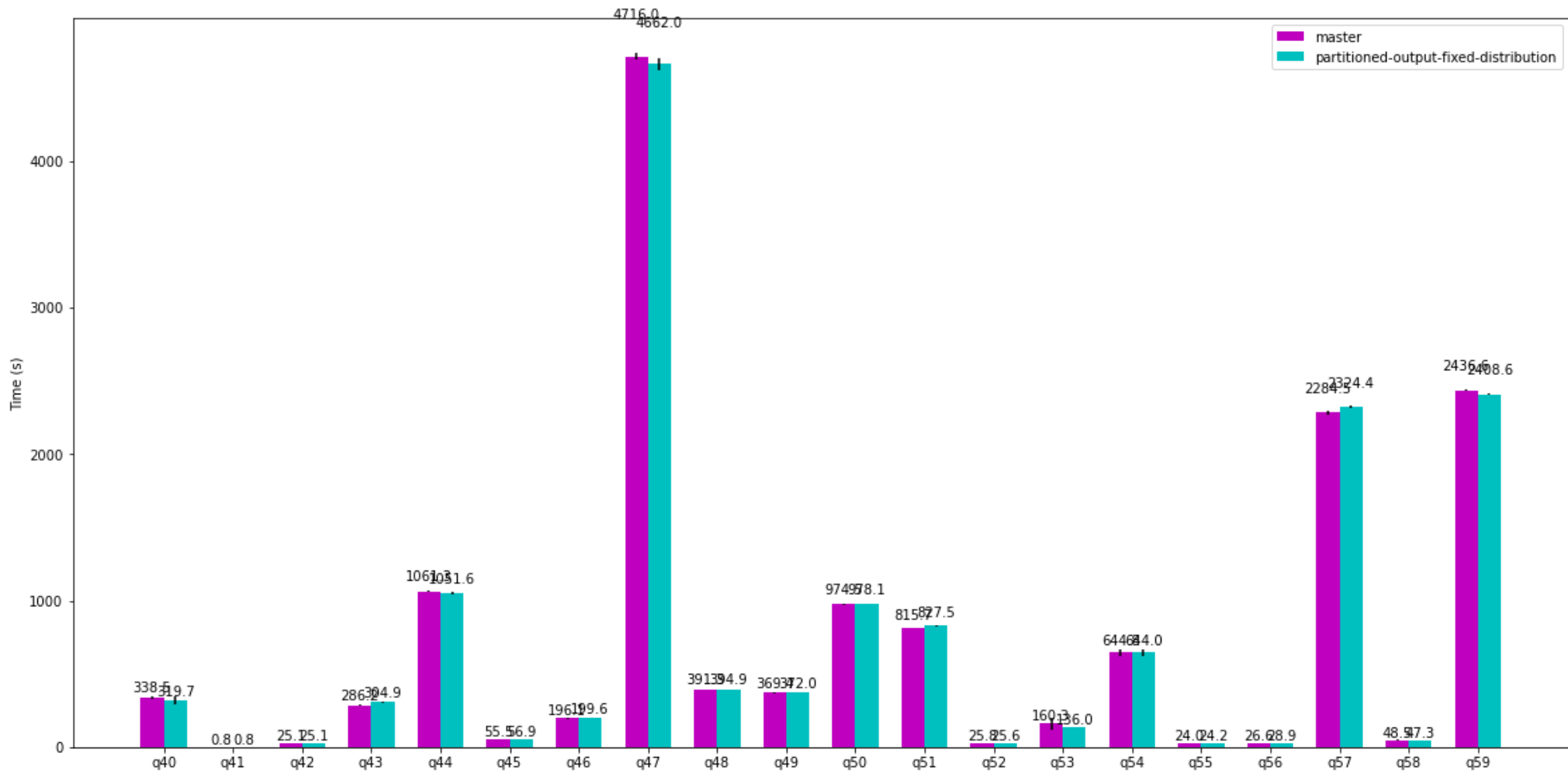
	query	master mean	master std.dev	partitioned-output-fixed-distribution mean	partitioned-output-fixed-distribution std.dev
7	presto/tpch: q08	2739.3	5.295659	2884.9	4.730750
8	presto/tpch: q09	5958.0	19.718012	6624.0	60.239522
9	presto/tpch: q10	2311.1	28.658193	2582.1	20.683037
10	presto/tpch: q11	525.0	4.069398	554.8	2.201817
11	presto/tpch: q12	811.5	2.756084	867.3	2.104281
12	presto/tpch: q13	3091.8	5.602856	3245.9	14.326898
13	presto/tpch: q14	198.7	1.033441	221.8	1.549193
14	presto/tpch: q15	357.3	0.501996	426.7	1.714643
15	presto/tpch: q16	517.0	0.903327	574.2	2.078461
16	presto/tpch: q17	6624.0	22.768399	7872.0	43.598165
17	presto/tpch: q18	6258.0	35.394915	7698.0	42.085627
18	presto/tpch: q19	1771.7	5.372150	1847.8	8.741625
19	presto/tpch: q20	1440.2	3.408225	1633.9	7.253964
20	presto/tpch: q21	9420.0	117.575508	10986.0	123.489271
21	presto/tpch: q22	474.9	0.985901	539.2	3.098387

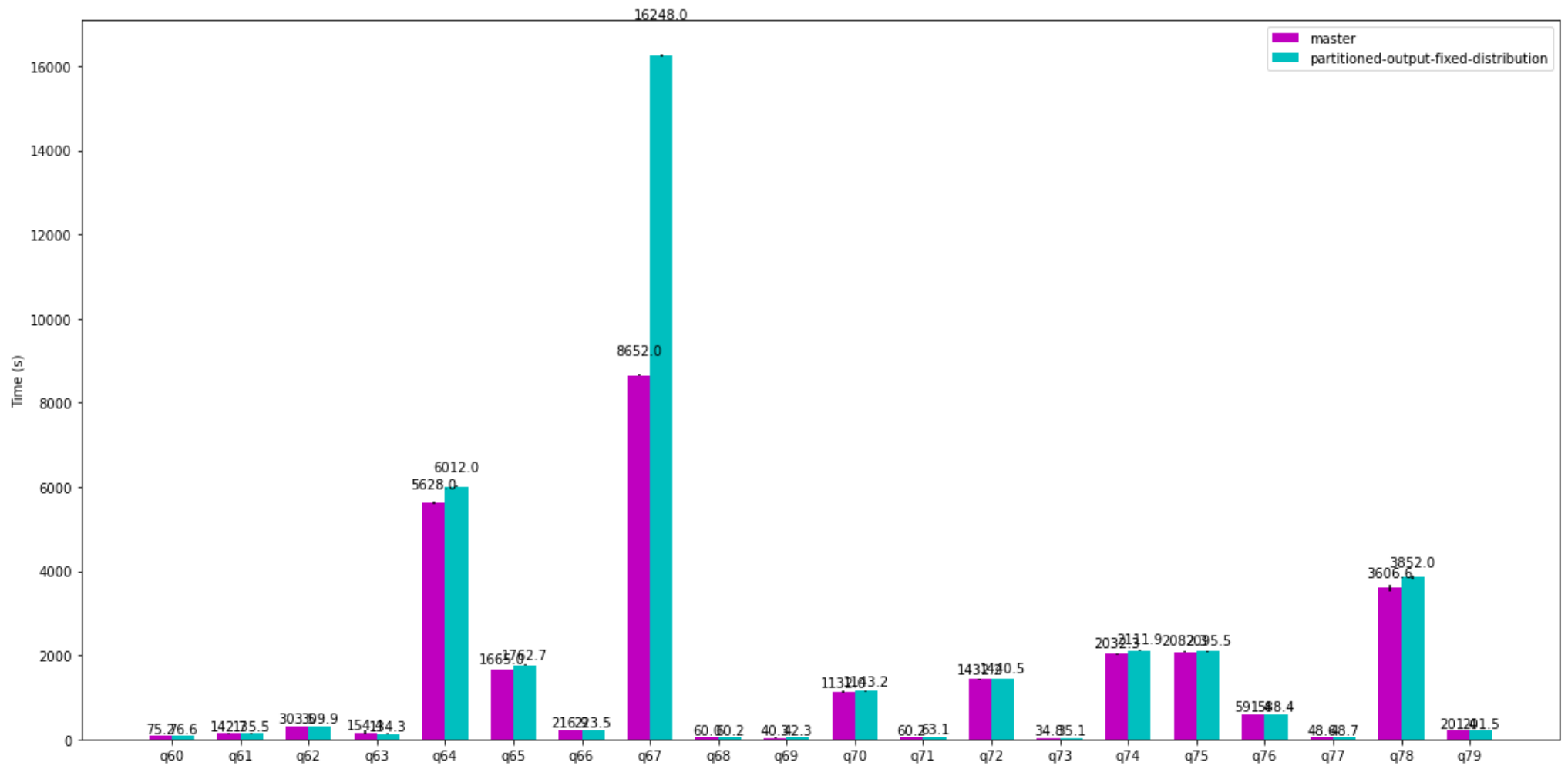
## TPC-DS Comparison (CPU)

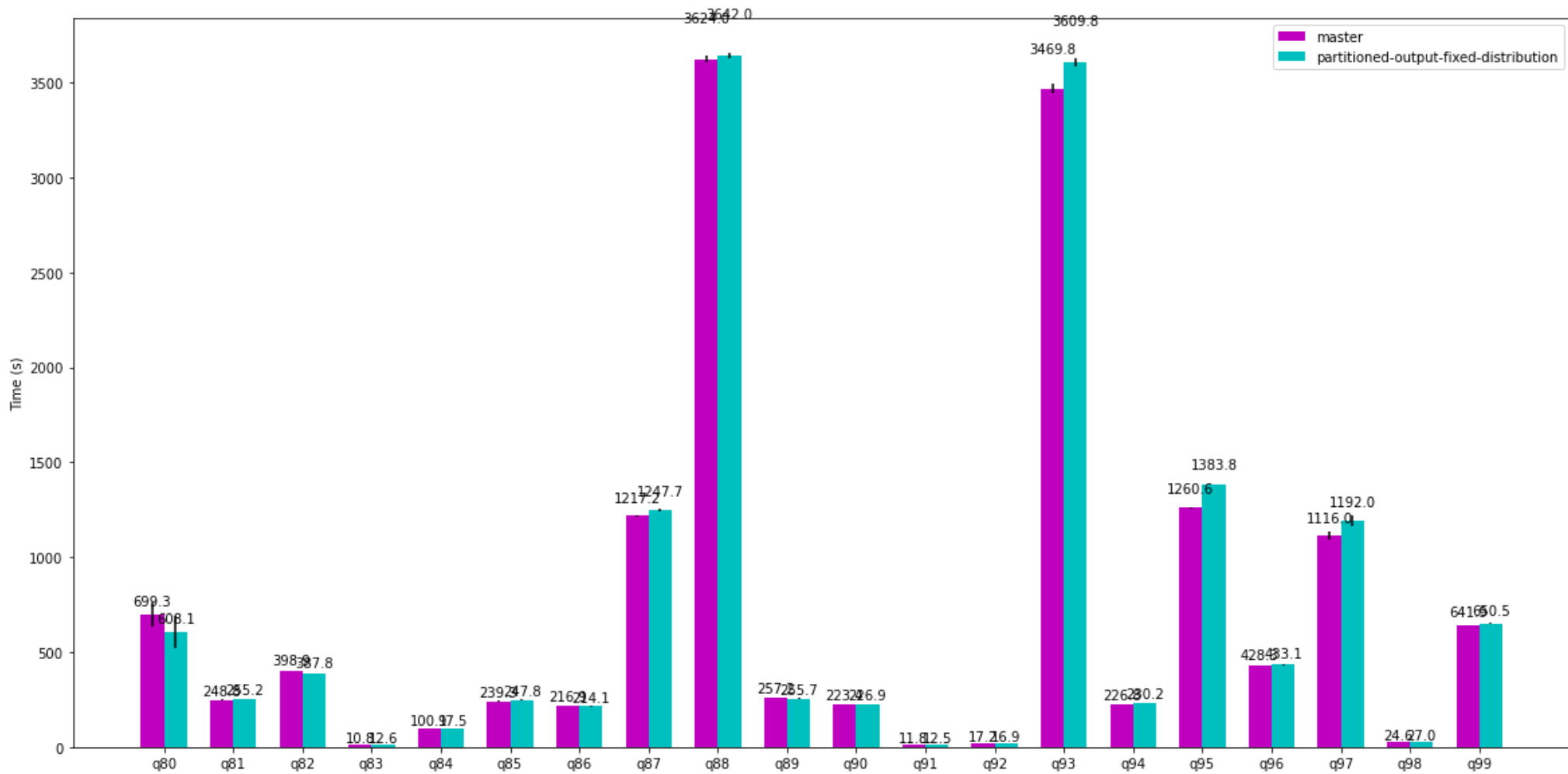












	query	master mean	master std.dev	partitioned-output-fixed-distribution mean	partitioned-output-fixed-distribution std.dev
0	presto/tpcds: q01	218.000000	1.846077	225.500000	3.069202
1	presto/tpcds: q02	1868.700000	21.428486	1874.600000	16.578540
2	presto/tpcds: q03	87.900000	40.712995	69.800000	0.309839
3	presto/tpcds: q04	5364.000000	0.000000	5424.000000	18.590320
4	presto/tpcds: q05	499.100000	27.302088	519.800000	38.275423
5	presto/tpcds: q06	57.186667	1.034981	58.978333	0.533870
6	presto/tpcds: q07	250.300000	1.100909	253.300000	1.537530

	query	master mean	master std.dev	partitioned-output-fixed-distribution mean	partitioned-output-fixed-distribution std.dev
7	presto/tpcds: q08	93.600000	2.736421	94.400000	1.296148
8	presto/tpcds: q09	2357.700000	12.635664	2365.500000	9.590620
9	presto/tpcds: q10	41.181667	0.632437	41.528333	0.951029
10	presto/tpcds: q11	2815.200000	6.177378	2818.000000	10.030354
11	presto/tpcds: q12	6.618333	0.048751	6.978333	0.124807
12	presto/tpcds: q13	488.300000	1.282186	486.900000	2.422396
13	presto/tpcds: q14	11814.000000	42.085627	11790.000000	19.718012
14	presto/tpcds: q15	60.345000	0.978238	62.500000	1.440833
15	presto/tpcds: q16	490.500000	3.902307	493.400000	5.611417
16	presto/tpcds: q17	239.600000	6.323290	246.300000	6.514906
17	presto/tpcds: q18	188.200000	0.726636	196.200000	0.536656
18	presto/tpcds: q19	66.500000	0.701427	67.100000	1.440833
19	presto/tpcds: q20	15.088333	0.159175	17.030000	0.311577
20	presto/tpcds: q21	11.530000	0.143944	11.618333	0.106474
21	presto/tpcds: q22	628.400000	3.471023	1633.500000	5.044998
22	presto/tpcds: q23	10992.000000	126.085685	11334.000000	42.085627
23	presto/tpcds: q24	2991.100000	16.328013	3046.400000	10.144555
24	presto/tpcds: q25	160.300000	9.692678	160.800000	3.619945
25	presto/tpcds: q26	136.700000	0.244949	136.200000	0.657267
26	presto/tpcds: q27	232.500000	0.328634	233.500000	0.701427
27	presto/tpcds: q28	2718.100000	12.316331	2644.800000	16.259889
28	presto/tpcds: q29	389.400000	1.779888	394.500000	1.728583
29	presto/tpcds: q30	124.500000	0.985901	126.900000	0.328634
30	presto/tpcds: q31	382.700000	5.595355	392.400000	3.129217
31	presto/tpcds: q32	28.511667	0.438243	60.508333	35.103710
32	presto/tpcds: q33	51.351667	1.253594	53.948333	0.532782

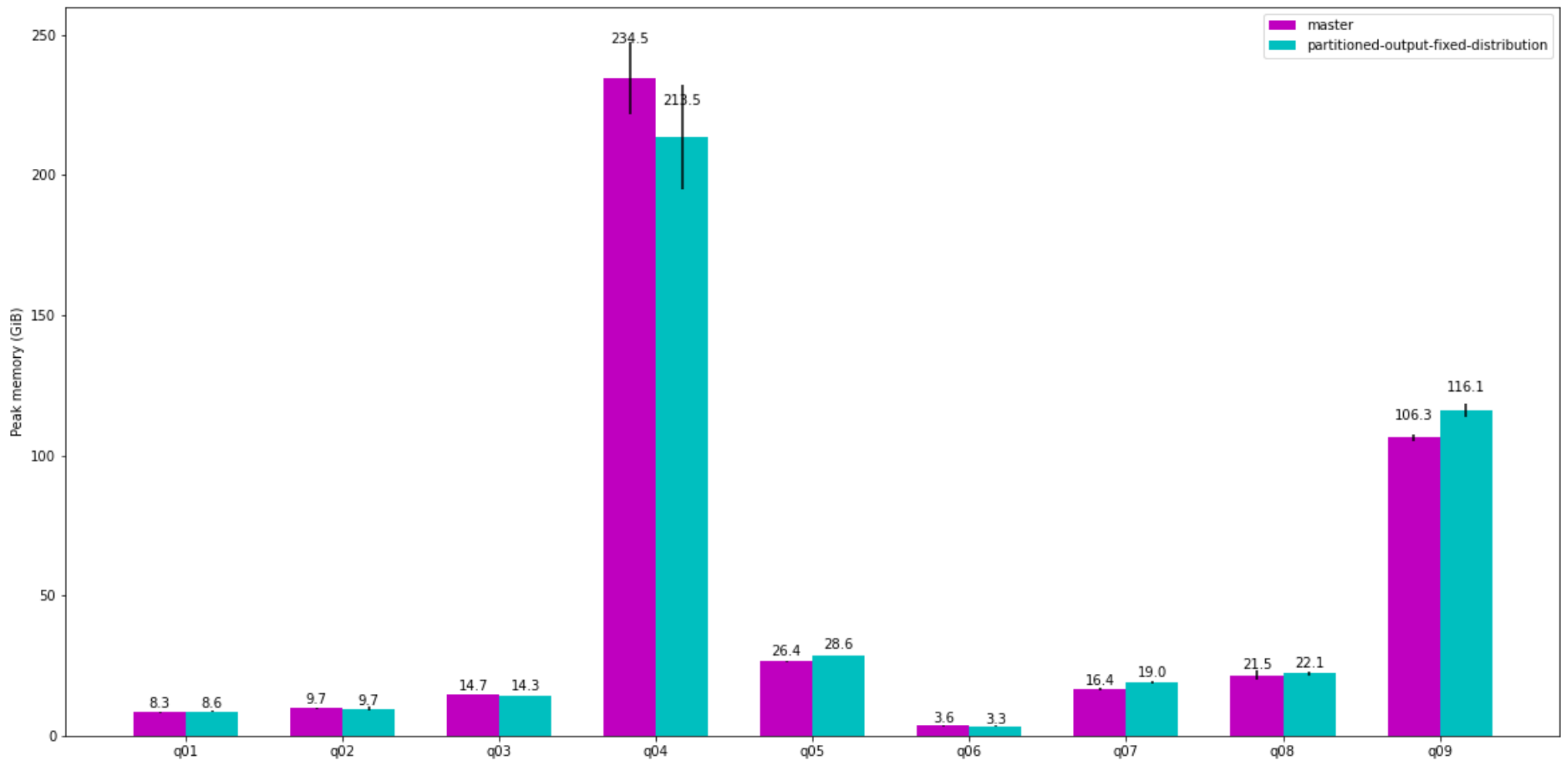
	query	master mean	master std.dev	partitioned-output-fixed-distribution mean	partitioned-output-fixed-distribution std.dev
33	presto/tpcds: q34	105.100000	0.244949	106.900000	0.589915
34	presto/tpcds: q35	183.600000	2.656313	183.800000	1.453272
35	presto/tpcds: q36	219.000000	0.379473	222.500000	0.244949
36	presto/tpcds: q37	189.500000	0.244949	186.900000	1.056409
37	presto/tpcds: q38	1209.900000	5.185750	1234.600000	5.624233
38	presto/tpcds: q39	45.400000	0.790873	47.808333	0.698668
39	presto/tpcds: q40	338.500000	7.113649	319.700000	24.120945
40	presto/tpcds: q41	0.765000	0.010954	0.778667	0.014841
41	presto/tpcds: q42	25.068333	0.093470	25.093333	0.186082
42	presto/tpcds: q43	286.200000	0.536656	304.900000	1.164474
43	presto/tpcds: q44	1061.300000	4.350172	1051.600000	6.379969
44	presto/tpcds: q45	55.511667	0.343943	56.888333	0.535216
45	presto/tpcds: q46	196.100000	1.440833	199.600000	1.639512
46	presto/tpcds: q47	4716.000000	22.768399	4662.000000	37.757119
47	presto/tpcds: q48	391.300000	0.883176	394.900000	0.797496
48	presto/tpcds: q49	369.400000	1.402854	372.000000	2.179908
49	presto/tpcds: q50	974.500000	3.161645	978.100000	0.797496
50	presto/tpcds: q51	815.700000	1.122497	827.500000	5.011587
51	presto/tpcds: q52	25.776667	0.195414	25.638333	0.313204
52	presto/tpcds: q53	160.300000	42.988510	136.000000	0.619677
53	presto/tpcds: q54	644.800000	22.129076	644.000000	19.014100
54	presto/tpcds: q55	24.035000	0.067750	24.163333	0.238132
55	presto/tpcds: q56	26.588333	0.237438	28.940000	0.193907
56	presto/tpcds: q57	2284.500000	13.078073	2324.400000	8.182909
57	presto/tpcds: q58	48.510000	1.380420	47.320000	0.809839
58	presto/tpcds: q59	2436.600000	4.033857	2408.600000	6.043840

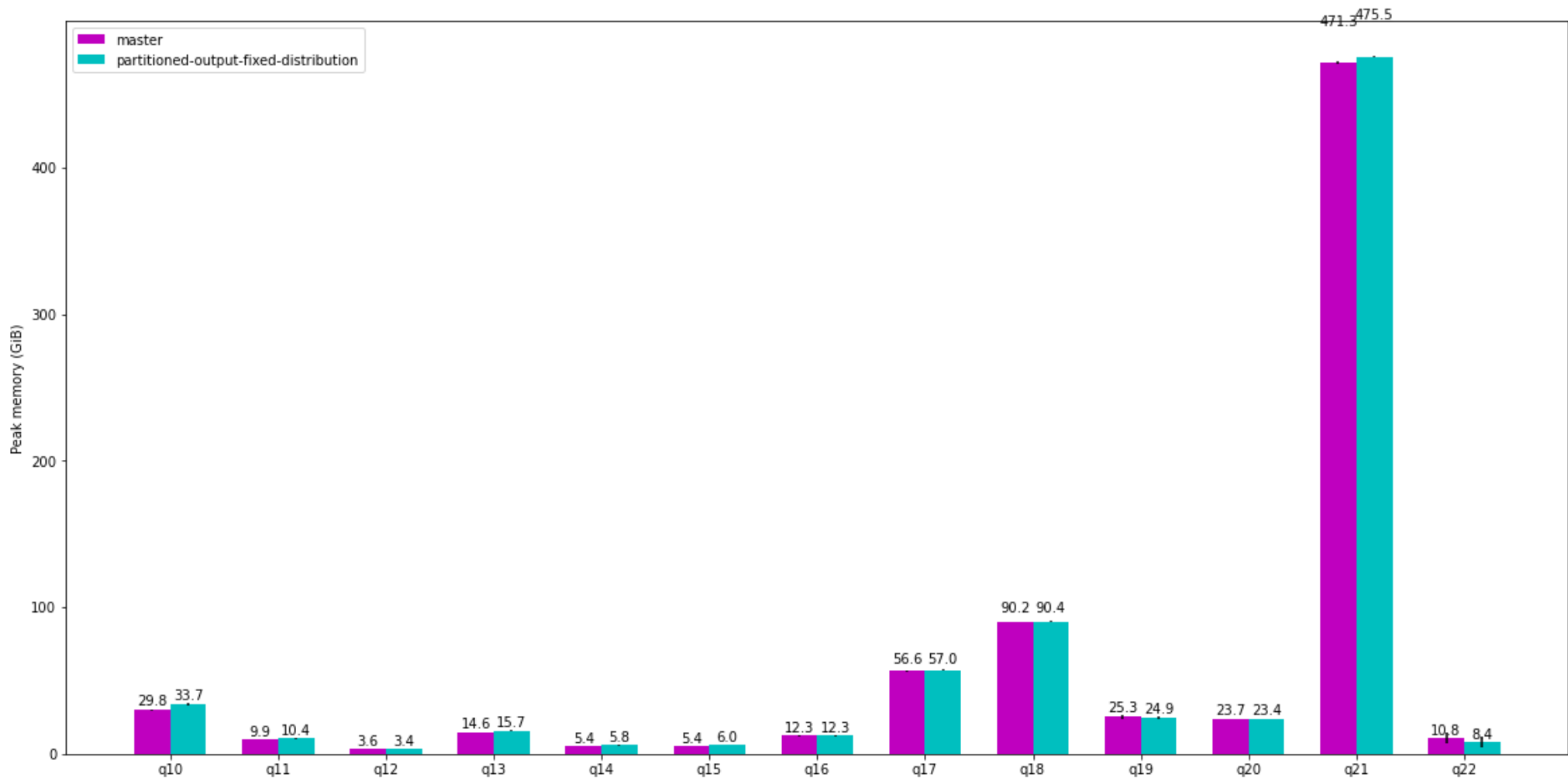
	query	master mean	master std.dev	partitioned-output-fixed-distribution mean	partitioned-output-fixed-distribution std.dev
59	presto/tpcds: q60	75.200000	1.050714	76.600000	0.979796
60	presto/tpcds: q61	142.700000	22.151027	135.500000	15.939762
61	presto/tpcds: q62	303.500000	1.583667	309.900000	3.693779
62	presto/tpcds: q63	154.400000	45.757098	134.300000	0.961249
63	presto/tpcds: q64	5628.000000	29.393877	6012.000000	22.768399
64	presto/tpcds: q65	1665.000000	10.039920	1762.700000	16.702934
65	presto/tpcds: q66	216.900000	0.501996	223.500000	1.122497
66	presto/tpcds: q67	8652.000000	18.590320	16248.000000	37.180640
67	presto/tpcds: q68	59.965000	0.376709	60.176667	0.331582
68	presto/tpcds: q69	40.301667	1.161747	42.331667	0.348334
69	presto/tpcds: q70	1132.000000	21.615550	1143.200000	12.861104
70	presto/tpcds: q71	60.198333	2.293586	63.100000	1.796664
71	presto/tpcds: q72	1432.200000	14.208730	1440.500000	7.123763
72	presto/tpcds: q73	34.786667	0.108382	35.101667	0.100482
73	presto/tpcds: q74	2032.300000	12.068306	2111.900000	6.522270
74	presto/tpcds: q75	2082.300000	7.267187	2095.500000	16.161064
75	presto/tpcds: q76	591.400000	0.726636	588.400000	3.344249
76	presto/tpcds: q77	48.563333	0.362418	48.710000	0.228035
77	presto/tpcds: q78	3606.600000	77.136762	3852.000000	39.436024
78	presto/tpcds: q79	201.400000	0.726636	201.500000	0.589915
79	presto/tpcds: q80	699.300000	62.456225	608.100000	84.857693
80	presto/tpcds: q81	248.800000	1.117139	255.200000	0.979796
81	presto/tpcds: q82	398.900000	0.701427	387.800000	0.619677
82	presto/tpcds: q83	10.790000	0.276261	12.560000	1.108224
83	presto/tpcds: q84	100.100000	0.701427	97.500000	0.827043
84	presto/tpcds: q85	239.300000	3.251461	247.800000	4.376300



	query	master mean	master std.dev	partitioned-output-fixed-distribution mean	partitioned-output-fixed-distribution std.dev
<b>85</b>	presto/tpcds: q86	216.900000	0.328634	214.100000	0.701427
<b>86</b>	presto/tpcds: q87	1217.200000	3.387034	1247.700000	4.870729
<b>87</b>	presto/tpcds: q88	3624.000000	18.590320	3642.000000	14.696938
<b>88</b>	presto/tpcds: q89	257.200000	0.489898	255.700000	0.883176
<b>89</b>	presto/tpcds: q90	223.400000	0.489898	226.900000	0.701427
<b>90</b>	presto/tpcds: q91	11.805000	0.808301	12.460000	0.930118
<b>91</b>	presto/tpcds: q92	17.163333	0.257112	16.943333	0.386713
<b>92</b>	presto/tpcds: q93	3469.800000	25.484113	3609.800000	20.928450
<b>93</b>	presto/tpcds: q94	226.800000	1.258571	230.200000	0.979796
<b>94</b>	presto/tpcds: q95	1260.600000	3.979950	1383.800000	2.449490
<b>95</b>	presto/tpcds: q96	428.300000	1.389964	433.100000	0.883176
<b>96</b>	presto/tpcds: q97	1116.000000	21.549942	1192.000000	25.576239
<b>97</b>	presto/tpcds: q98	24.600000	0.168404	26.963333	0.329343
<b>98</b>	presto/tpcds: q99	641.900000	0.701427	650.500000	1.583667

## TPC-H Comparison (peak Memory)

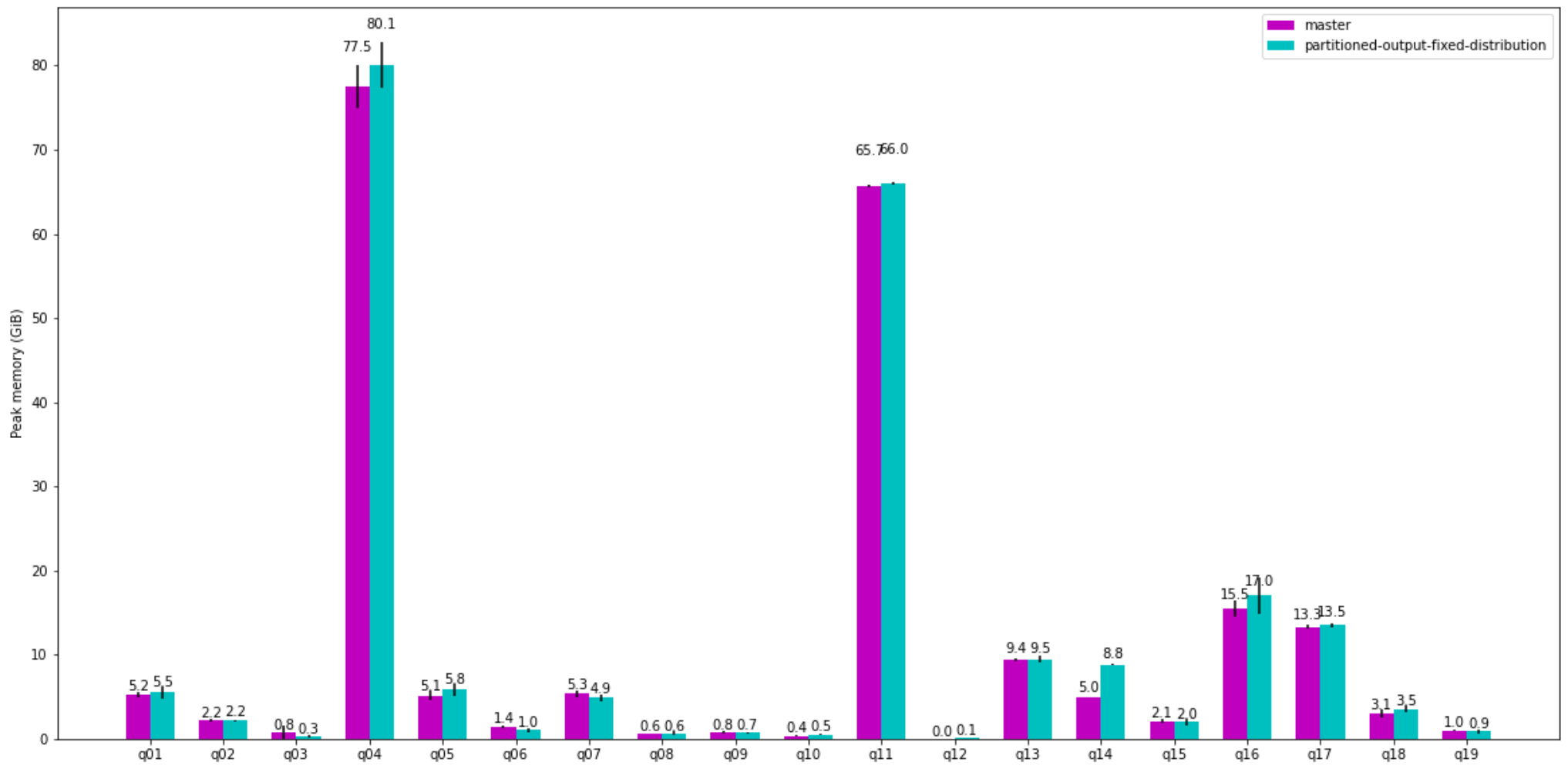


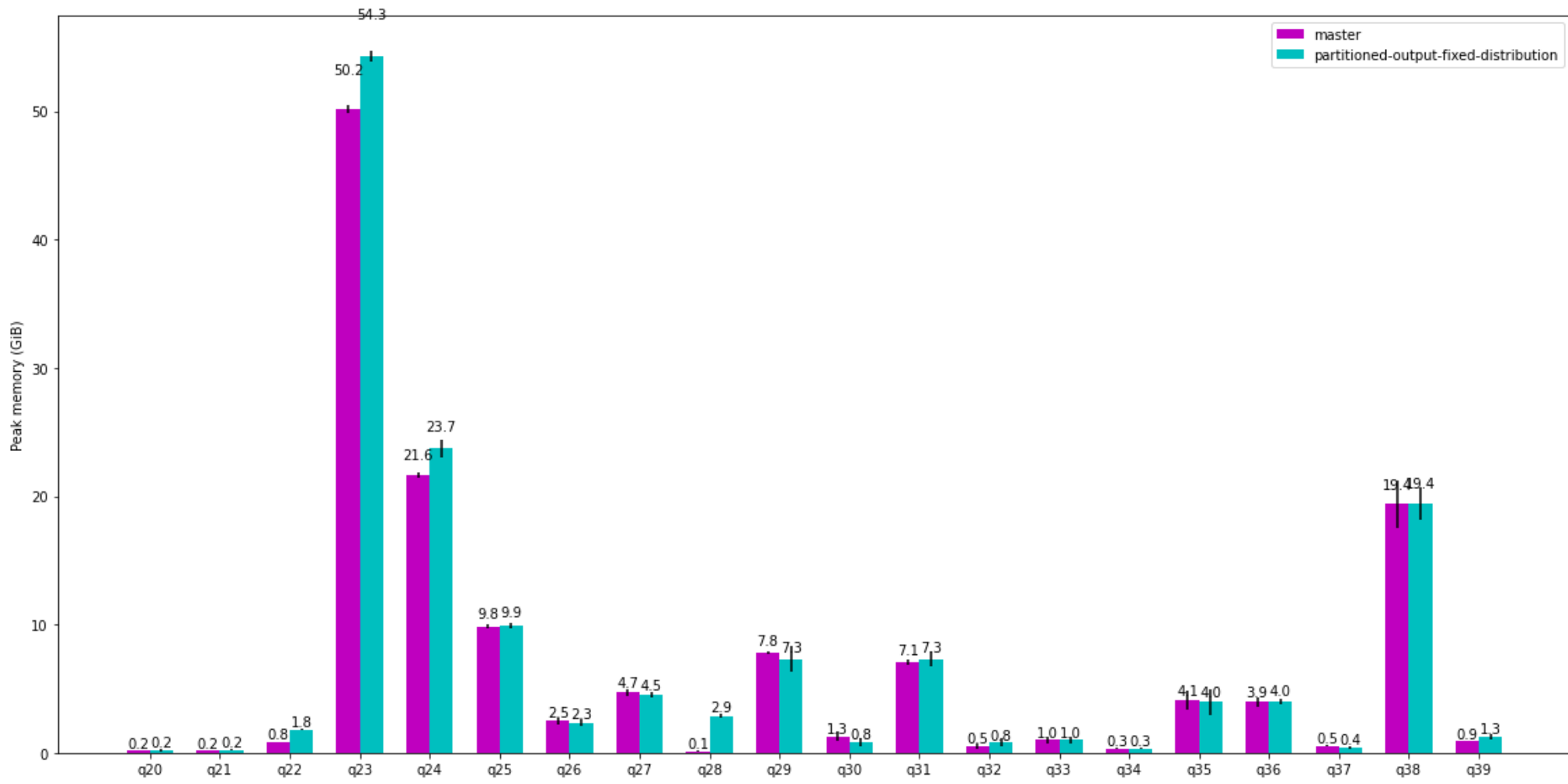


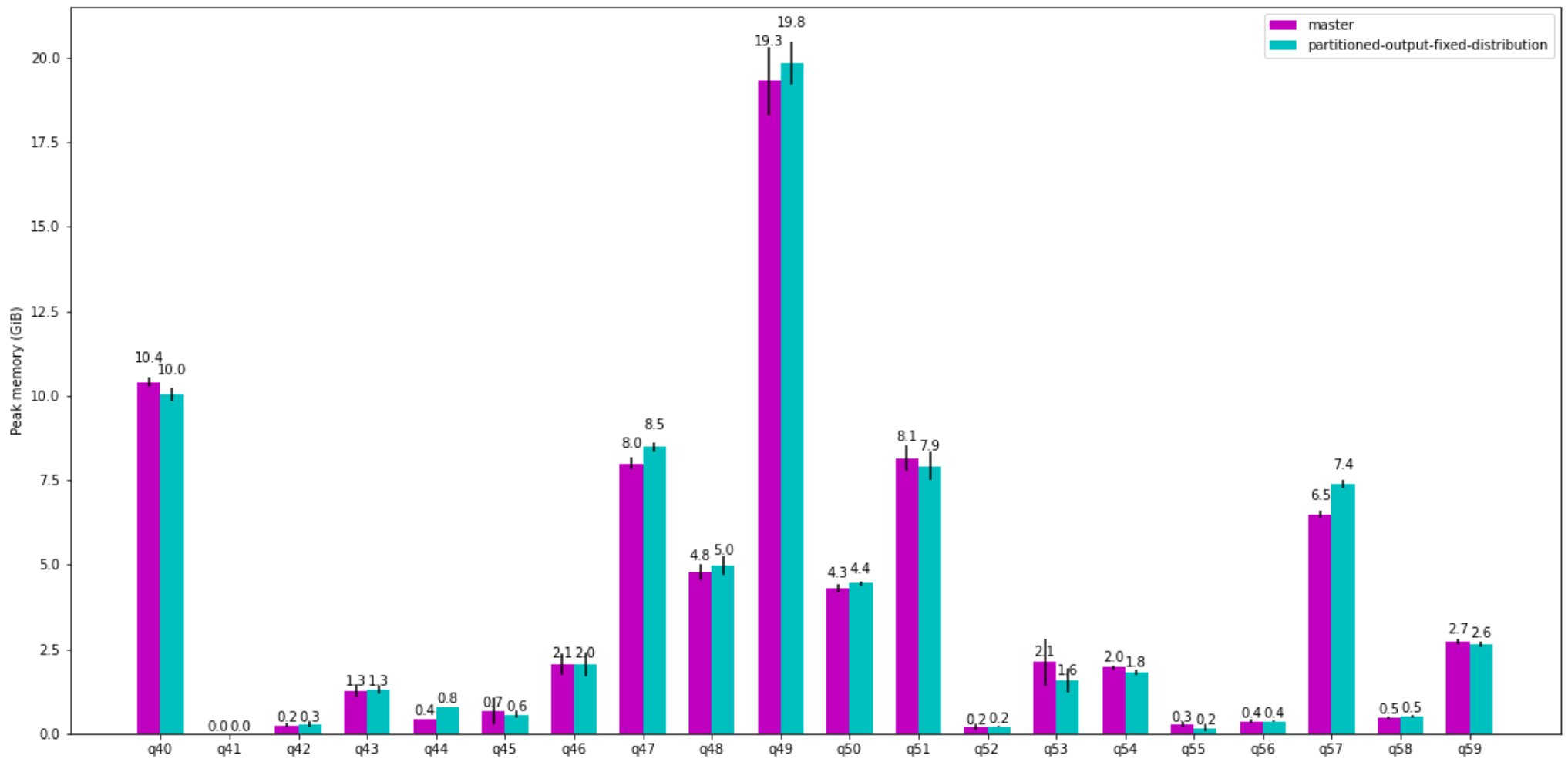
	query	master mean	master std.dev	partitioned-output-fixed-distribution mean	partitioned-output-fixed-distribution std.dev
0	presto/tpch: q01	8.348 GiB	240.354 MiB	8.630 GiB	271.827 MiB
1	presto/tpch: q02	9.706 GiB	458.384 MiB	9.671 GiB	593.336 MiB
2	presto/tpch: q03	14.690 GiB	60.996 MiB	14.303 GiB	98.200 MiB
3	presto/tpch: q04	234.494 GiB	12.926 GiB	213.529 GiB	18.580 GiB
4	presto/tpch: q05	26.444 GiB	297.197 MiB	28.649 GiB	159.275 MiB
5	presto/tpch: q06	3.583 GiB	185.385 MiB	3.265 GiB	242.389 MiB
6	presto/tpch: q07	16.447 GiB	473.186 MiB	19.043 GiB	622.055 MiB

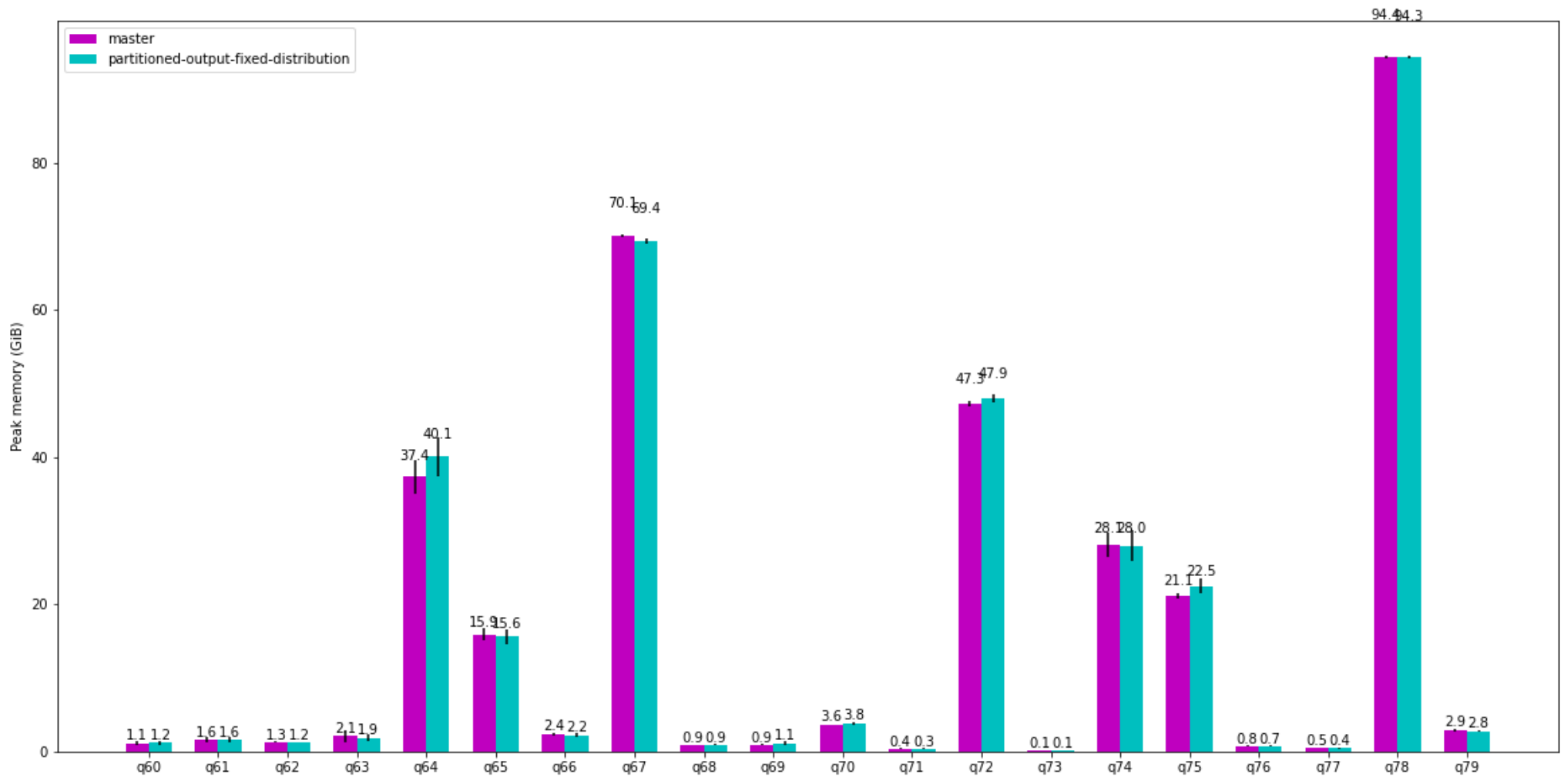
	query	master mean	master std.dev	partitioned-output-fixed-distribution mean	partitioned-output-fixed-distribution std.dev
7	presto/tpch: q08	21.529 GiB	1.630 GiB	22.142 GiB	690.419 MiB
8	presto/tpch: q09	106.275 GiB	1.298 GiB	116.083 GiB	2.529 GiB
9	presto/tpch: q10	29.847 GiB	590.756 MiB	33.691 GiB	901.756 MiB
10	presto/tpch: q11	9.911 GiB	432.635 MiB	10.413 GiB	236.012 MiB
11	presto/tpch: q12	3.610 GiB	188.242 MiB	3.441 GiB	256.309 MiB
12	presto/tpch: q13	14.631 GiB	91.982 MiB	15.692 GiB	658.951 MiB
13	presto/tpch: q14	5.436 GiB	64.221 MiB	5.813 GiB	80.098 MiB
14	presto/tpch: q15	5.429 GiB	7.388 MiB	6.048 GiB	50.142 MiB
15	presto/tpch: q16	12.312 GiB	286.860 MiB	12.301 GiB	269.287 MiB
16	presto/tpch: q17	56.612 GiB	521.721 MiB	57.033 GiB	425.632 MiB
17	presto/tpch: q18	90.169 GiB	155.271 MiB	90.367 GiB	74.722 MiB
18	presto/tpch: q19	25.270 GiB	1.231 GiB	24.860 GiB	882.510 MiB
19	presto/tpch: q20	23.739 GiB	286.142 MiB	23.394 GiB	124.951 MiB
20	presto/tpch: q21	471.277 GiB	0.941 GiB	475.507 GiB	612.378 MiB
21	presto/tpch: q22	10.770 GiB	3.432 GiB	8.359 GiB	3.838 GiB

## TPC-DS Comparison (peak Memory)

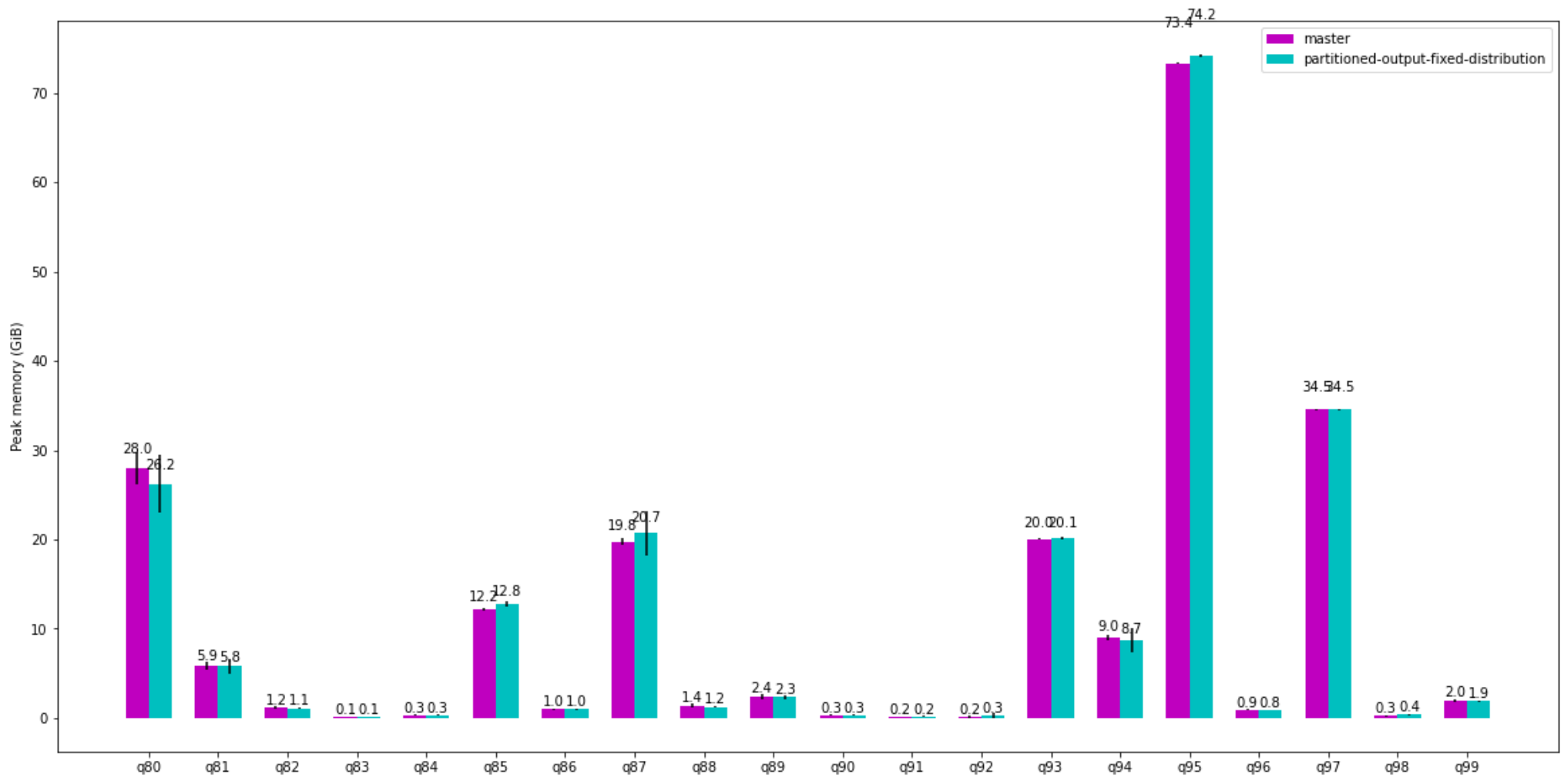












	query	master mean	master std.dev	partitioned-output-fixed-distribution mean	partitioned-output-fixed-distribution std.dev
0	presto/tpcds: q01	5.209 GiB	368.627 MiB	5.529 GiB	726.797 MiB
1	presto/tpcds: q02	2.165 GiB	188.097 MiB	2.188 GiB	73.251 MiB
2	presto/tpcds: q03	776.715 MiB	766.154 MiB	274.098 MiB	185.983 MiB
3	presto/tpcds: q04	77.533 GiB	2.524 GiB	80.064 GiB	2.712 GiB
4	presto/tpcds: q05	5.127 GiB	562.672 MiB	5.839 GiB	754.669 MiB
5	presto/tpcds: q06	1.419 GiB	211.599 MiB	1.014 GiB	231.194 MiB
6	presto/tpcds: q07	5.329 GiB	349.409 MiB	4.867 GiB	387.320 MiB

	query	master mean	master std.dev	partitioned-output-fixed-distribution mean	partitioned-output-fixed-distribution std.dev
7	presto/tpcds: q08	624.326 MiB	42.431 MiB	648.653 MiB	255.511 MiB
8	presto/tpcds: q09	789.681 MiB	124.830 MiB	753.270 MiB	95.586 MiB
9	presto/tpcds: q10	366.175 MiB	128.703 MiB	520.595 MiB	38.570 MiB
10	presto/tpcds: q11	65.681 GiB	117.933 MiB	65.973 GiB	207.539 MiB
11	presto/tpcds: q12	29.510 MiB	4.733 MiB	111.233 MiB	28.063 MiB
12	presto/tpcds: q13	9.408 GiB	222.698 MiB	9.467 GiB	360.140 MiB
13	presto/tpcds: q14	4.952 GiB	42.192 MiB	8.814 GiB	72.219 MiB
14	presto/tpcds: q15	2.101 GiB	281.685 MiB	1.983 GiB	371.039 MiB
15	presto/tpcds: q16	15.474 GiB	0.971 GiB	17.017 GiB	2.182 GiB
16	presto/tpcds: q17	13.279 GiB	220.260 MiB	13.494 GiB	288.395 MiB
17	presto/tpcds: q18	3.065 GiB	482.778 MiB	3.513 GiB	397.575 MiB
18	presto/tpcds: q19	1.001 GiB	75.489 MiB	903.875 MiB	220.338 MiB
19	presto/tpcds: q20	208.015 MiB	30.894 MiB	219.545 MiB	81.386 MiB
20	presto/tpcds: q21	187.975 MiB	22.258 MiB	217.884 MiB	35.976 MiB
21	presto/tpcds: q22	856.229 MiB	25.577 MiB	1.814 GiB	47.208 MiB
22	presto/tpcds: q23	50.218 GiB	325.869 MiB	54.286 GiB	434.676 MiB
23	presto/tpcds: q24	21.645 GiB	227.575 MiB	23.711 GiB	737.885 MiB
24	presto/tpcds: q25	9.834 GiB	160.504 MiB	9.917 GiB	245.007 MiB
25	presto/tpcds: q26	2.462 GiB	300.057 MiB	2.342 GiB	292.091 MiB
26	presto/tpcds: q27	4.683 GiB	273.131 MiB	4.530 GiB	220.156 MiB
27	presto/tpcds: q28	135.030 MiB	16.879 MiB	2.857 GiB	156.590 MiB
28	presto/tpcds: q29	7.837 GiB	121.401 MiB	7.317 GiB	1.013 GiB
29	presto/tpcds: q30	1.298 GiB	353.127 MiB	840.107 MiB	353.748 MiB
30	presto/tpcds: q31	7.088 GiB	197.442 MiB	7.319 GiB	570.092 MiB
31	presto/tpcds: q32	541.109 MiB	243.551 MiB	829.877 MiB	362.266 MiB
32	presto/tpcds: q33	0.994 GiB	290.911 MiB	1.005 GiB	285.832 MiB

	query	master mean	master std.dev	partitioned-output-fixed-distribution mean	partitioned-output-fixed-distribution std.dev
33	presto/tpcds: q34	355.551 MiB	68.719 MiB	329.590 MiB	62.289 MiB
34	presto/tpcds: q35	4.099 GiB	714.156 MiB	3.967 GiB	1.020 GiB
35	presto/tpcds: q36	3.947 GiB	377.896 MiB	4.034 GiB	208.365 MiB
36	presto/tpcds: q37	556.603 MiB	63.196 MiB	428.757 MiB	76.405 MiB
37	presto/tpcds: q38	19.395 GiB	1.878 GiB	19.445 GiB	1.271 GiB
38	presto/tpcds: q39	916.306 MiB	8.379 MiB	1.270 GiB	202.924 MiB
39	presto/tpcds: q40	10.397 GiB	144.467 MiB	10.025 GiB	194.990 MiB
40	presto/tpcds: q41	260.159 KiB	64.085 KiB	0.930 MiB	157.903 KiB
41	presto/tpcds: q42	251.457 MiB	44.100 MiB	266.142 MiB	81.961 MiB
42	presto/tpcds: q43	1.274 GiB	181.720 MiB	1.285 GiB	119.127 MiB
43	presto/tpcds: q44	451.160 MiB	815.698 KiB	801.146 MiB	18.770 MiB
44	presto/tpcds: q45	682.580 MiB	387.628 MiB	578.070 MiB	91.929 MiB
45	presto/tpcds: q46	2.053 GiB	321.932 MiB	2.047 GiB	350.304 MiB
46	presto/tpcds: q47	7.988 GiB	190.674 MiB	8.482 GiB	141.158 MiB
47	presto/tpcds: q48	4.793 GiB	243.766 MiB	4.979 GiB	281.867 MiB
48	presto/tpcds: q49	19.309 GiB	1.011 GiB	19.828 GiB	648.092 MiB
49	presto/tpcds: q50	4.306 GiB	120.052 MiB	4.441 GiB	63.715 MiB
50	presto/tpcds: q51	8.145 GiB	387.449 MiB	7.902 GiB	419.571 MiB
51	presto/tpcds: q52	196.493 MiB	92.882 MiB	205.099 MiB	28.349 MiB
52	presto/tpcds: q53	2.114 GiB	704.302 MiB	1.568 GiB	378.530 MiB
53	presto/tpcds: q54	1.959 GiB	54.695 MiB	1.806 GiB	88.354 MiB
54	presto/tpcds: q55	271.403 MiB	74.229 MiB	172.104 MiB	86.178 MiB
55	presto/tpcds: q56	364.403 MiB	65.828 MiB	366.048 MiB	28.895 MiB
56	presto/tpcds: q57	6.486 GiB	89.374 MiB	7.382 GiB	114.602 MiB
57	presto/tpcds: q58	489.488 MiB	47.892 MiB	521.890 MiB	44.715 MiB
58	presto/tpcds: q59	2.722 GiB	81.975 MiB	2.636 GiB	66.891 MiB

	query	master mean	master std.dev	partitioned-output-fixed-distribution mean	partitioned-output-fixed-distribution std.dev
59	presto/tpcds: q60	1.141 GiB	322.437 MiB	1.209 GiB	270.721 MiB
60	presto/tpcds: q61	1.581 GiB	381.734 MiB	1.588 GiB	341.261 MiB
61	presto/tpcds: q62	1.278 GiB	67.434 MiB	1.240 GiB	20.936 MiB
62	presto/tpcds: q63	2.066 GiB	814.455 MiB	1.870 GiB	385.177 MiB
63	presto/tpcds: q64	37.378 GiB	2.272 GiB	40.138 GiB	2.644 GiB
64	presto/tpcds: q65	15.873 GiB	843.328 MiB	15.624 GiB	0.989 GiB
65	presto/tpcds: q66	2.418 GiB	195.233 MiB	2.212 GiB	312.688 MiB
66	presto/tpcds: q67	70.100 GiB	120.169 MiB	69.397 GiB	324.088 MiB
67	presto/tpcds: q68	0.917 GiB	34.952 MiB	0.929 GiB	125.872 MiB
68	presto/tpcds: q69	929.361 MiB	120.393 MiB	1.148 GiB	230.364 MiB
69	presto/tpcds: q70	3.627 GiB	69.456 MiB	3.758 GiB	176.266 MiB
70	presto/tpcds: q71	397.906 MiB	152.729 MiB	356.933 MiB	90.666 MiB
71	presto/tpcds: q72	47.270 GiB	294.043 MiB	47.947 GiB	516.392 MiB
72	presto/tpcds: q73	132.557 MiB	44.735 MiB	129.443 MiB	15.365 MiB
73	presto/tpcds: q74	28.052 GiB	1.604 GiB	27.987 GiB	2.049 GiB
74	presto/tpcds: q75	21.139 GiB	377.147 MiB	22.498 GiB	0.992 GiB
75	presto/tpcds: q76	773.800 MiB	128.900 MiB	740.110 MiB	98.239 MiB
76	presto/tpcds: q77	503.394 MiB	59.920 MiB	455.901 MiB	48.095 MiB
77	presto/tpcds: q78	94.406 GiB	147.403 MiB	94.322 GiB	172.498 MiB
78	presto/tpcds: q79	2.886 GiB	178.747 MiB	2.775 GiB	80.420 MiB
79	presto/tpcds: q80	28.002 GiB	1.774 GiB	26.219 GiB	3.270 GiB
80	presto/tpcds: q81	5.868 GiB	522.982 MiB	5.784 GiB	881.771 MiB
81	presto/tpcds: q82	1.183 GiB	100.400 MiB	1.110 GiB	68.655 MiB
82	presto/tpcds: q83	107.365 MiB	13.104 MiB	115.223 MiB	14.049 MiB
83	presto/tpcds: q84	354.534 MiB	36.233 MiB	351.092 MiB	48.137 MiB
84	presto/tpcds: q85	12.190 GiB	91.497 MiB	12.781 GiB	264.120 MiB

	query	master mean	master std.dev	partitioned-output-fixed-distribution mean	partitioned-output-fixed-distribution std.dev
<b>85</b>	presto/tpcds: q86	0.965 GiB	45.058 MiB	0.966 GiB	61.043 MiB
<b>86</b>	presto/tpcds: q87	19.764 GiB	380.359 MiB	20.690 GiB	2.532 GiB
<b>87</b>	presto/tpcds: q88	1.390 GiB	187.843 MiB	1.222 GiB	80.639 MiB
<b>88</b>	presto/tpcds: q89	2.381 GiB	320.579 MiB	2.322 GiB	245.327 MiB
<b>89</b>	presto/tpcds: q90	342.249 MiB	51.215 MiB	353.458 MiB	43.356 MiB
<b>90</b>	presto/tpcds: q91	157.866 MiB	33.521 MiB	208.944 MiB	48.225 MiB
<b>91</b>	presto/tpcds: q92	161.516 MiB	190.722 MiB	340.187 MiB	312.711 MiB
<b>92</b>	presto/tpcds: q93	20.029 GiB	58.774 MiB	20.129 GiB	151.286 MiB
<b>93</b>	presto/tpcds: q94	9.048 GiB	315.992 MiB	8.707 GiB	1.307 GiB
<b>94</b>	presto/tpcds: q95	73.366 GiB	81.617 MiB	74.240 GiB	131.416 MiB
<b>95</b>	presto/tpcds: q96	0.925 GiB	100.003 MiB	870.341 MiB	37.206 MiB
<b>96</b>	presto/tpcds: q97	34.536 GiB	4.081 MiB	34.536 GiB	2.344 MiB
<b>97</b>	presto/tpcds: q98	282.658 MiB	68.389 MiB	373.553 MiB	113.873 MiB
<b>98</b>	presto/tpcds: q99	1.963 GiB	103.727 MiB	1.869 GiB	47.414 MiB