

Dataset : 2.5 milyon ADD, 10 milyon EXECUTE, 2.5 milyon DELETE

- Order-by-order: google::dense_hash_map
- Grouped-by-price: emhash7::HashMap

ADD RESULT		EXECUTE RESULT		DELETE RESULT		GLOBAL RESULT	
mean	61.86	mean	29.7	mean	29.05	mean	34.95
std	28708.78	std	85.25	std	87.12	std	11720.58
min	26	min	24	min	24	min	24
max	39983700	max	23332	max	23290	max	39983700
%1 quantile	27.0	%1 quantile	26.0	%1 quantile	25.0	%1 quantile	26.0
%25 quantile	28.0	%25 quantile	27.0	%25 quantile	26.0	%25 quantile	27.0
%50 quantile	28.0	%50 quantile	28.0	%50 quantile	27.0	%50 quantile	28.0
%75 quantile	29.0	%75 quantile	29.0	%75 quantile	28.0	%75 quantile	29.0
%99 quantile	51.0	%99 quantile	88.0	%99 quantile	87.0	%99 quantile	86.0
%99,9 quantile	134.0	%99,9 quantile	139.0	%99,9 quantile	217.0	%99,9 quantile	154.0

- Order-by-order: google::dense_hash_map
- Grouped-by-price: google::dense_hash_map

ADD RESULT		EXECUTE RESULT		DELETE RESULT		GLOBAL RESULT	
mean	61.72	mean	29.46	mean	29.98	mean	34.93
std	27106.32	std	83.02	std	48.99	std	11066.34
min	27	min	24	min	26	min	24
max	37031513	max	23622	max	18039	max	37031513
%1 quantile	28.0	%1 quantile	26.0	%1 quantile	27.0	%1 quantile	27.0
%25 quantile	29.0	%25 quantile	27.0	%25 quantile	28.0	%25 quantile	27.0
%50 quantile	29.0	%50 quantile	28.0	%50 quantile	29.0	%50 quantile	28.0
%75 quantile	30.0	%75 quantile	28.0	%75 quantile	29.0	%75 quantile	29.0
%99 quantile	51.0	%99 quantile	88.0	%99 quantile	88.0	%99 quantile	86.0
%99,9 quantile	134.0	%99,9 quantile	130.0	%99,9 quantile	105.0	%99,9 quantile	128.0

- Order-by-order: google::dense_hash_map
- Grouped-by-price: hrd7::hash_map

ADD RESULT		EXECUTE RESULT		DELETE RESULT		GLOBAL RESULT	
mean	62.86	mean	32.64	mean	32.31	mean	37.62
std	26630.37	std	102.38	std	65.14	std	10872.16
min	26	min	24	min	26	min	24
max	36283770	max	132920	max	20670	max	36283770
%1 quantile	28.0	%1 quantile	27.0	%1 quantile	28.0	%1 quantile	28.0
%25 quantile	29.0	%25 quantile	29.0	%25 quantile	29.0	%25 quantile	29.0
%50 quantile	30.0	%50 quantile	30.0	%50 quantile	30.0	%50 quantile	30.0
%75 quantile	31.0	%75 quantile	31.0	%75 quantile	31.0	%75 quantile	31.0
%99 quantile	50.0	%99 quantile	91.0	%99 quantile	90.0	%99 quantile	89.0
%99,9 quantile	126.0	%99,9 quantile	141.0	%99,9 quantile	137.0	%99,9 quantile	136.0

- Order-by-order: google::dense_hash_map
- Grouped-by-price: robin_hood::unordered_flat_map

ADD RESULT		EXECUTE RESULT		DELETE RESULT		GLOBAL RESULT	
mean	64.43	mean	42.06	mean	31.82	mean	44.08
std	26830.84	std	117.3	std	45.13	std	10954.08
min	27	min	33	min	25	min	25
max	36610965	max	30231	max	17985	max	36610965
%1 quantile	30.0	%1 quantile	37.0	%1 quantile	28.0	%1 quantile	30.0
%25 quantile	31.0	%25 quantile	38.0	%25 quantile	29.0	%25 quantile	32.0
%50 quantile	32.0	%50 quantile	39.0	%50 quantile	30.0	%50 quantile	38.0
%75 quantile	33.0	%75 quantile	40.0	%75 quantile	30.0	%75 quantile	40.0
%99 quantile	50.0	%99 quantile	98.0	%99 quantile	89.0	%99 quantile	94.0
%99,9 quantile	135.0	%99,9 quantile	161.0	%99,9 quantile	184.0	%99,9 quantile	158.0

- Order-by-order: google::dense_hash_map
- Grouped-by-price: ska::bytell_hash_map

ADD RESULT		EXECUTE RESULT		DELETE RESULT		GLOBAL RESULT	
mean	64.6	mean	32.37	mean	32.86	mean	37.82
std	27230.73	std	92.54	std	50.03	std	11117.18
min	27	min	25	min	26	min	25
max	37295528	max	26511	max	18340	max	37295528
%1 quantile	30.0	%1 quantile	28.0	%1 quantile	29.0	%1 quantile	29.0
%25 quantile	31.0	%25 quantile	29.0	%25 quantile	30.0	%25 quantile	30.0
%50 quantile	32.0	%50 quantile	30.0	%50 quantile	31.0	%50 quantile	31.0
%75 quantile	33.0	%75 quantile	31.0	%75 quantile	32.0	%75 quantile	32.0
%99 quantile	50.0	%99 quantile	91.0	%99 quantile	90.0	%99 quantile	89.0
%99,9 quantile	133.0	%99,9 quantile	137.0	%99,9 quantile	126.0	%99,9 quantile	135.0

- Order-by-order: google::dense_hash_map
- Grouped-by-price: ska::flat_hash_map

ADD RESULT		EXECUTE RESULT		DELETE RESULT		GLOBAL RESULT	
mean	65.18	mean	31.65	mean	32.91	mean	37.45
std	27973.66	std	73.0	std	144.85	std	11420.52
min	26	min	24	min	24	min	24
max	38144729	max	31277	max	21410	max	38144729
%1 quantile	28.0	%1 quantile	27.0	%1 quantile	28.0	%1 quantile	27.0
%25 quantile	30.0	%25 quantile	28.0	%25 quantile	29.0	%25 quantile	29.0
%50 quantile	31.0	%50 quantile	29.0	%50 quantile	30.0	%50 quantile	30.0
%75 quantile	32.0	%75 quantile	30.0	%75 quantile	31.0	%75 quantile	31.0
%99 quantile	50.0	%99 quantile	92.0	%99 quantile	91.0	%99 quantile	89.0
%99,9 quantile	160.0	%99,9 quantile	171.0	%99,9 quantile	154.0	%99,9 quantile	166.0

- Order-by-order: google::dense_hash_map
- Grouped-by-price: tsl::bhopscotch_map

ADD RESULT		EXECUTE RESULT		DELETE RESULT		GLOBAL RESULT	
mean	65.85	mean	31.15	mean	30.87	mean	36.89
std	26810.64	std	127.82	std	100.77	std	10945.98
min	29	min	24	min	24	min	24
max	36407858	max	156020	max	26925	max	36407858
%1 quantile	31.0	%1 quantile	27.0	%1 quantile	26.0	%1 quantile	27.0
%25 quantile	33.0	%25 quantile	28.0	%25 quantile	28.0	%25 quantile	28.0
%50 quantile	33.0	%50 quantile	29.0	%50 quantile	29.0	%50 quantile	29.0
%75 quantile	34.0	%75 quantile	30.0	%75 quantile	29.0	%75 quantile	31.0
%99 quantile	50.0	%99 quantile	90.0	%99 quantile	92.0	%99 quantile	89.0
%99,9 quantile	128.0	%99,9 quantile	160.0	%99,9 quantile	217.0	%99,9 quantile	165.0

- Order-by-order: google::dense_hash_map
- Grouped-by-price: tsl::hopscotch_map

ADD RESULT		EXECUTE RESULT		DELETE RESULT		GLOBAL RESULT	
mean	67.76	mean	31.48	mean	33.62	mean	37.88
std	27285.98	std	89.21	std	190.63	std	11139.97
min	29	min	24	min	25	min	24
max	37388057	max	28627	max	142619	max	37388057
%1 quantile	31.0	%1 quantile	27.0	%1 quantile	27.0	%1 quantile	27.0
%25 quantile	33.0	%25 quantile	28.0	%25 quantile	29.0	%25 quantile	28.0
%50 quantile	34.0	%50 quantile	29.0	%50 quantile	30.0	%50 quantile	29.0
%75 quantile	36.0	%75 quantile	30.0	%75 quantile	32.0	%75 quantile	34.0
%99 quantile	50.0	%99 quantile	90.0	%99 quantile	92.0	%99 quantile	89.0
%99,9 quantile	138.0	%99,9 quantile	132.0	%99,9 quantile	181.0	%99,9 quantile	137.0

- Order-by-order: google::dense_hash_map
- Grouped-by-price: tsl::robin_map

ADD RESULT		EXECUTE RESULT		DELETE RESULT		GLOBAL RESULT	
mean	65.56	mean	30.24	mean	29.73	mean	36.04
std	26876.71	std	76.41	std	64.14	std	10972.59
min	27	min	24	min	24	min	24
max	36393596	max	26367	max	20528	max	36393596
%1 quantile	30.0	%1 quantile	26.0	%1 quantile	26.0	%1 quantile	26.0
%25 quantile	31.0	%25 quantile	27.0	%25 quantile	27.0	%25 quantile	28.0
%50 quantile	33.0	%50 quantile	29.0	%50 quantile	28.0	%50 quantile	29.0
%75 quantile	34.0	%75 quantile	29.0	%75 quantile	29.0	%75 quantile	30.0
%99 quantile	48.0	%99 quantile	89.0	%99 quantile	87.0	%99 quantile	87.0
%99,9 quantile	139.0	%99,9 quantile	145.0	%99,9 quantile	155.0	%99,9 quantile	144.0

- Order-by-order: emhash7::HashMap
- Grouped-by-price: absl::flat_hash_map

ADD RESULT		EXECUTE RESULT		DELETE RESULT		GLOBAL RESULT	
mean	72.7	mean	36.92	mean	42.09	mean	43.74
std	19861.94	std	69.82	std	158.39	std	8109.07
min	39	min	27	min	32	min	27
max	27317652	max	27173	max	28873	max	27317652
%1 quantile	44.0	%1 quantile	31.0	%1 quantile	36.0	%1 quantile	32.0
%25 quantile	45.0	%25 quantile	33.0	%25 quantile	36.0	%25 quantile	33.0
%50 quantile	46.0	%50 quantile	34.0	%50 quantile	38.0	%50 quantile	36.0
%75 quantile	48.0	%75 quantile	37.0	%75 quantile	40.0	%75 quantile	42.0
%99 quantile	101.0	%99 quantile	95.0	%99 quantile	97.0	%99 quantile	97.0
%99,9 quantile	271.0	%99,9 quantile	285.0	%99,9 quantile	247.0	%99,9 quantile	280.0

- Order-by-order: emhash7::HashMap
- Grouped-by-price: emhash7::HashMap

ADD RESULT		EXECUTE RESULT		DELETE RESULT		GLOBAL RESULT	
mean	49.3	mean	28.18	mean	29.6	mean	31.94
std	18266.03	std	84.45	std	51.77	std	7457.43
min	23	min	21	min	23	min	21
max	24529299	max	26434	max	20845	max	24529299
%1 quantile	24.0	%1 quantile	23.0	%1 quantile	25.0	%1 quantile	23.0
%25 quantile	25.0	%25 quantile	24.0	%25 quantile	26.0	%25 quantile	25.0
%50 quantile	26.0	%50 quantile	26.0	%50 quantile	28.0	%50 quantile	26.0
%75 quantile	27.0	%75 quantile	27.0	%75 quantile	28.0	%75 quantile	28.0
%99 quantile	87.0	%99 quantile	88.0	%99 quantile	89.0	%99 quantile	88.0
%99,9 quantile	176.0	%99,9 quantile	186.0	%99,9 quantile	205.0	%99,9 quantile	187.0

- Order-by-order: emhash7::HashMap
- Grouped-by-price: google::dense_hash_map

ADD RESULT		EXECUTE RESULT		DELETE RESULT		GLOBAL RESULT	
mean	51.9	mean	26.79	mean	31.19	mean	31.7
std	20165.36	std	65.84	std	66.9	std	8232.7
min	24	min	21	min	26	min	21
max	27766170	max	26796	max	26121	max	27766170
%1 quantile	26.0	%1 quantile	23.0	%1 quantile	28.0	%1 quantile	24.0
%25 quantile	26.0	%25 quantile	24.0	%25 quantile	28.0	%25 quantile	25.0
%50 quantile	27.0	%50 quantile	25.0	%50 quantile	29.0	%50 quantile	26.0
%75 quantile	27.0	%75 quantile	26.0	%75 quantile	30.0	%75 quantile	27.0
%99 quantile	88.0	%99 quantile	87.0	%99 quantile	91.0	%99 quantile	88.0
%99,9 quantile	190.0	%99,9 quantile	158.0	%99,9 quantile	137.0	%99,9 quantile	154.0

- Order-by-order: emhash7::HashMap
- Grouped-by-price: hrd7::hash_map

ADD RESULT		EXECUTE RESULT		DELETE RESULT		GLOBAL RESULT	
mean	52.29	mean	31.32	mean	33.75	mean	35.22
std	18654.52	std	86.44	std	50.42	std	7616.03
min	24	min	23	min	26	min	23
max	25180324	max	49397	max	27546	max	25180324
%1 quantile	26.0	%1 quantile	26.0	%1 quantile	29.0	%1 quantile	26.0
%25 quantile	27.0	%25 quantile	28.0	%25 quantile	30.0	%25 quantile	28.0
%50 quantile	28.0	%50 quantile	29.0	%50 quantile	31.0	%50 quantile	29.0
%75 quantile	29.0	%75 quantile	30.0	%75 quantile	33.0	%75 quantile	31.0
%99 quantile	89.0	%99 quantile	89.0	%99 quantile	91.0	%99 quantile	89.0
%99,9 quantile	244.0	%99,9 quantile	124.0	%99,9 quantile	184.0	%99,9 quantile	144.0

- Order-by-order: emhash7::HashMap
- Grouped-by-price: robin_hood::unordered_flat_map

ADD RESULT		EXECUTE RESULT		DELETE RESULT		GLOBAL RESULT	
mean	52.55	mean	30.9	mean	35.57	mean	35.29
std	18278.22	std	69.46	std	90.72	std	7462.36
min	24	min	23	min	27	min	23
max	24333209	max	27998	max	20587	max	24333209
%1 quantile	26.0	%1 quantile	26.0	%1 quantile	30.0	%1 quantile	26.0
%25 quantile	27.0	%25 quantile	27.0	%25 quantile	32.0	%25 quantile	27.0
%50 quantile	27.0	%50 quantile	28.0	%50 quantile	33.0	%50 quantile	28.0
%75 quantile	29.0	%75 quantile	29.0	%75 quantile	34.0	%75 quantile	33.0
%99 quantile	89.0	%99 quantile	89.0	%99 quantile	92.0	%99 quantile	90.0
%99,9 quantile	316.0	%99,9 quantile	205.0	%99,9 quantile	222.0	%99,9 quantile	225.0

- Order-by-order: emhash7::HashMap
- Grouped-by-price: robin_hood::unordered_map

ADD RESULT		EXECUTE RESULT		DELETE RESULT		GLOBAL RESULT	
mean	52.06	mean	30.27	mean	36.46	mean	34.93
std	18520.3	std	66.93	std	164.83	std	7561.38
min	24	min	23	min	27	min	23
max	24295742	max	26330	max	22237	max	24295742
%1 quantile	26.0	%1 quantile	26.0	%1 quantile	30.0	%1 quantile	26.0
%25 quantile	27.0	%25 quantile	27.0	%25 quantile	32.0	%25 quantile	27.0
%50 quantile	27.0	%50 quantile	28.0	%50 quantile	33.0	%50 quantile	28.0
%75 quantile	28.0	%75 quantile	29.0	%75 quantile	34.0	%75 quantile	31.0
%99 quantile	89.0	%99 quantile	89.0	%99 quantile	93.0	%99 quantile	90.0
%99,9 quantile	218.0	%99,9 quantile	278.0	%99,9 quantile	214.0	%99,9 quantile	262.0

- Order-by-order: emhash7::HashMap
- Grouped-by-price: robin_hood::unordered_node_map

ADD RESULT		EXECUTE RESULT		DELETE RESULT		GLOBAL RESULT	
mean	57.28	mean	36.65	mean	39.34	mean	40.54
std	17934.24	std	92.49	std	81.25	std	7322.09
min	24	min	24	min	27	min	24
max	23855013	max	27448	max	27230	max	23855013
%1 quantile	29.0	%1 quantile	29.0	%1 quantile	32.0	%1 quantile	29.0
%25 quantile	31.0	%25 quantile	31.0	%25 quantile	33.0	%25 quantile	31.0
%50 quantile	33.0	%50 quantile	33.0	%50 quantile	35.0	%50 quantile	34.0
%75 quantile	39.0	%75 quantile	39.0	%75 quantile	42.0	%75 quantile	39.0
%99 quantile	90.0	%99 quantile	93.0	%99 quantile	98.0	%99 quantile	93.0
%99,9 quantile	228.0	%99,9 quantile	199.0	%99,9 quantile	236.0	%99,9 quantile	213.0

- Order-by-order: emhash7::HashMap
- Grouped-by-price: ska::bytell_hash_map

ADD RESULT		EXECUTE RESULT		DELETE RESULT		GLOBAL RESULT	
mean	51.45	mean	30.82	mean	34.16	mean	34.81
std	18353.9	std	81.29	std	49.0	std	7493.27
min	24	min	23	min	27	min	23
max	24581600	max	26160	max	18044	max	24581600
%1 quantile	26.0	%1 quantile	26.0	%1 quantile	30.0	%1 quantile	26.0
%25 quantile	27.0	%25 quantile	27.0	%25 quantile	31.0	%25 quantile	28.0
%50 quantile	28.0	%50 quantile	28.0	%50 quantile	32.0	%50 quantile	29.0
%75 quantile	29.0	%75 quantile	29.0	%75 quantile	33.0	%75 quantile	31.0
%99 quantile	89.0	%99 quantile	89.0	%99 quantile	92.0	%99 quantile	90.0
%99,9 quantile	284.0	%99,9 quantile	304.0	%99,9 quantile	208.0	%99,9 quantile	290.0

- Order-by-order: emhash7::HashMap
- Grouped-by-price: ska::flat_hash_map

ADD RESULT		EXECUTE RESULT		DELETE RESULT		GLOBAL RESULT	
mean	52.42	mean	30.65	mean	33.64	mean	34.77
std	18674.18	std	59.83	std	151.94	std	7624.11
min	23	min	22	min	24	min	22
max	24598197	max	20535	max	27328	max	24598197
%1 quantile	25.0	%1 quantile	25.0	%1 quantile	28.0	%1 quantile	25.0
%25 quantile	26.0	%25 quantile	28.0	%25 quantile	29.0	%25 quantile	27.0
%50 quantile	27.0	%50 quantile	28.0	%50 quantile	30.0	%50 quantile	28.0
%75 quantile	29.0	%75 quantile	29.0	%75 quantile	32.0	%75 quantile	30.0
%99 quantile	88.0	%99 quantile	88.0	%99 quantile	90.0	%99 quantile	89.0
%99,9 quantile	246.0	%99,9 quantile	294.0	%99,9 quantile	199.0	%99,9 quantile	280.0

- Order-by-order: emhash7::HashMap
- Grouped-by-price: tsl::bhopscotch_map

ADD RESULT		EXECUTE RESULT		DELETE RESULT		GLOBAL RESULT	
mean	51.91	mean	28.23	mean	30.77	mean	32.6
std	18502.18	std	94.66	std	69.31	std	7553.94
min	25	min	21	min	23	min	21
max	24846528	max	133182	max	18438	max	24846528
%1 quantile	26.0	%1 quantile	24.0	%1 quantile	26.0	%1 quantile	24.0
%25 quantile	27.0	%25 quantile	25.0	%25 quantile	27.0	%25 quantile	26.0
%50 quantile	28.0	%50 quantile	26.0	%50 quantile	28.0	%50 quantile	26.0
%75 quantile	29.0	%75 quantile	27.0	%75 quantile	30.0	%75 quantile	28.0
%99 quantile	89.0	%99 quantile	87.0	%99 quantile	89.0	%99 quantile	88.0
%99,9 quantile	300.0	%99,9 quantile	155.0	%99,9 quantile	278.0	%99,9 quantile	223.0

- Order-by-order: emhash7::HashMap
- Grouped-by-price: tsl::hopscotch_map

ADD RESULT		EXECUTE RESULT		DELETE RESULT		GLOBAL RESULT	
mean	51.6	mean	27.99	mean	30.71	mean	32.38
std	17891.86	std	94.1	std	70.51	std	7304.79
min	25	min	21	min	24	min	21
max	24084120	max	47424	max	23365	max	24084120
%1 quantile	26.0	%1 quantile	24.0	%1 quantile	26.0	%1 quantile	24.0
%25 quantile	27.0	%25 quantile	25.0	%25 quantile	28.0	%25 quantile	25.0
%50 quantile	28.0	%50 quantile	26.0	%50 quantile	28.0	%50 quantile	26.0
%75 quantile	29.0	%75 quantile	26.0	%75 quantile	29.0	%75 quantile	28.0
%99 quantile	89.0	%99 quantile	88.0	%99 quantile	89.0	%99 quantile	88.0
%99,9 quantile	237.0	%99,9 quantile	198.0	%99,9 quantile	307.0	%99,9 quantile	231.0

- Order-by-order: emhash7::HashMap
- Grouped-by-price: tsl::robin_map

ADD RESULT		EXECUTE RESULT		DELETE RESULT		GLOBAL RESULT	
mean	51.8	mean	28.16	mean	29.78	mean	32.37
std	18326.05	std	82.82	std	60.01	std	7481.93
min	24	min	21	min	24	min	21
max	24416013	max	26266	max	20169	max	24416013
%1 quantile	26.0	%1 quantile	23.0	%1 quantile	25.0	%1 quantile	23.0
%25 quantile	27.0	%25 quantile	25.0	%25 quantile	27.0	%25 quantile	26.0
%50 quantile	28.0	%50 quantile	27.0	%50 quantile	28.0	%50 quantile	27.0
%75 quantile	29.0	%75 quantile	27.0	%75 quantile	29.0	%75 quantile	28.0
%99 quantile	89.0	%99 quantile	88.0	%99 quantile	89.0	%99 quantile	88.0
%99,9 quantile	196.0	%99,9 quantile	211.0	%99,9 quantile	201.0	%99,9 quantile	207.0

- Order-by-order: emhash7::HashMap
- Grouped-by-price: tsl::sparse_map

ADD RESULT		EXECUTE RESULT		DELETE RESULT		GLOBAL RESULT	
mean	65.37	mean	36.54	mean	42.02	mean	42.26
std	17756.25	std	86.61	std	66.51	std	7249.36
min	36	min	28	min	34	min	28
max	23936008	max	32155	max	17926	max	23936008
%1 quantile	39.0	%1 quantile	31.0	%1 quantile	37.0	%1 quantile	32.0
%25 quantile	40.0	%25 quantile	33.0	%25 quantile	38.0	%25 quantile	34.0
%50 quantile	43.0	%50 quantile	35.0	%50 quantile	40.0	%50 quantile	36.0
%75 quantile	44.0	%75 quantile	36.0	%75 quantile	41.0	%75 quantile	41.0
%99 quantile	97.0	%99 quantile	94.0	%99 quantile	99.0	%99 quantile	96.0
%99,9 quantile	235.0	%99,9 quantile	232.0	%99,9 quantile	191.0	%99,9 quantile	227.0

- Order-by-order: tsl::bhopscotch_map
- Grouped-by-price: emhash7::HashMap

ADD RESULT		EXECUTE RESULT		DELETE RESULT		GLOBAL RESULT	
mean	62.35	mean	29.28	mean	30.21	mean	34.95
std	25655.97	std	87.74	std	53.38	std	10474.28
min	28	min	22	min	24	min	22
max	34974300	max	23488	max	18761	max	34974300
%1 quantile	30.0	%1 quantile	24.0	%1 quantile	26.0	%1 quantile	25.0
%25 quantile	31.0	%25 quantile	26.0	%25 quantile	27.0	%25 quantile	27.0
%50 quantile	32.0	%50 quantile	28.0	%50 quantile	29.0	%50 quantile	28.0
%75 quantile	32.0	%75 quantile	28.0	%75 quantile	30.0	%75 quantile	30.0
%99 quantile	57.0	%99 quantile	90.0	%99 quantile	91.0	%99 quantile	89.0
%99,9 quantile	176.0	%99,9 quantile	190.0	%99,9 quantile	185.0	%99,9 quantile	186.0

- Order-by-order: tsl::bhopscotch_map
- Grouped-by-price: google::dense_hash_map

ADD RESULT		EXECUTE RESULT		DELETE RESULT		GLOBAL RESULT	
mean	62.92	mean	27.85	mean	31.76	mean	34.35
std	25711.84	std	84.23	std	76.3	std	10497.09
min	29	min	23	min	26	min	23
max	34915696	max	24196	max	21100	max	34915696
%1 quantile	31.0	%1 quantile	24.0	%1 quantile	28.0	%1 quantile	25.0
%25 quantile	31.0	%25 quantile	25.0	%25 quantile	29.0	%25 quantile	25.0
%50 quantile	32.0	%50 quantile	26.0	%50 quantile	30.0	%50 quantile	26.0
%75 quantile	33.0	%75 quantile	26.0	%75 quantile	31.0	%75 quantile	30.0
%99 quantile	57.0	%99 quantile	89.0	%99 quantile	91.0	%99 quantile	88.0
%99,9 quantile	152.0	%99,9 quantile	232.0	%99,9 quantile	153.0	%99,9 quantile	214.0

- Order-by-order: tsl::bhopscotch_map
- Grouped-by-price: hrd7::hash_map

ADD RESULT		EXECUTE RESULT		DELETE RESULT		GLOBAL RESULT	
mean	65.48	mean	32.78	mean	35.65	mean	38.71
std	25636.91	std	90.53	std	76.73	std	10466.54
min	28	min	24	min	27	min	24
max	34935711	max	26522	max	23373	max	34935711
%1 quantile	32.0	%1 quantile	27.0	%1 quantile	31.0	%1 quantile	28.0
%25 quantile	33.0	%25 quantile	29.0	%25 quantile	32.0	%25 quantile	30.0
%50 quantile	34.0	%50 quantile	30.0	%50 quantile	33.0	%50 quantile	31.0
%75 quantile	37.0	%75 quantile	32.0	%75 quantile	35.0	%75 quantile	35.0
%99 quantile	63.0	%99 quantile	93.0	%99 quantile	96.0	%99 quantile	93.0
%99,9 quantile	223.0	%99,9 quantile	190.0	%99,9 quantile	205.0	%99,9 quantile	196.0

- Order-by-order: tsl::bhopscotch_map
- Grouped-by-price: robin_hood::unordered_flat_map

ADD RESULT		EXECUTE RESULT		DELETE RESULT		GLOBAL RESULT	
mean	64.72	mean	31.32	mean	34.91	mean	37.48
std	25619.19	std	83.83	std	139.1	std	10459.38
min	29	min	24	min	27	min	24
max	34939304	max	22687	max	122709	max	34939304
%1 quantile	32.0	%1 quantile	27.0	%1 quantile	30.0	%1 quantile	27.0
%25 quantile	32.0	%25 quantile	28.0	%25 quantile	31.0	%25 quantile	28.0
%50 quantile	33.0	%50 quantile	28.0	%50 quantile	32.0	%50 quantile	29.0
%75 quantile	35.0	%75 quantile	30.0	%75 quantile	33.0	%75 quantile	33.0
%99 quantile	59.0	%99 quantile	92.0	%99 quantile	95.0	%99 quantile	92.0
%99,9 quantile	193.0	%99,9 quantile	143.0	%99,9 quantile	178.0	%99,9 quantile	158.0

- Order-by-order: tsl::bhopscotch_map
- Grouped-by-price: robin_hood::unordered_map

ADD RESULT		EXECUTE RESULT		DELETE RESULT		GLOBAL RESULT	
mean	64.21	mean	31.07	mean	36.06	mean	37.43
std	25738.58	std	94.52	std	76.96	std	10508.07
min	29	min	24	min	29	min	24
max	35105310	max	26585	max	20012	max	35105310
%1 quantile	32.0	%1 quantile	27.0	%1 quantile	32.0	%1 quantile	27.0
%25 quantile	32.0	%25 quantile	28.0	%25 quantile	33.0	%25 quantile	28.0
%50 quantile	33.0	%50 quantile	28.0	%50 quantile	34.0	%50 quantile	30.0
%75 quantile	34.0	%75 quantile	30.0	%75 quantile	35.0	%75 quantile	33.0
%99 quantile	60.0	%99 quantile	93.0	%99 quantile	98.0	%99 quantile	93.0
%99,9 quantile	166.0	%99,9 quantile	242.0	%99,9 quantile	149.0	%99,9 quantile	223.0

- Order-by-order: tsl::bhopscotch_map
- Grouped-by-price: robin_hood::unordered_node_map

ADD RESULT		EXECUTE RESULT		DELETE RESULT		GLOBAL RESULT	
mean	68.91	mean	36.84	mean	37.89	mean	42.36
std	25814.31	std	94.24	std	60.28	std	10538.96
min	29	min	25	min	27	min	25
max	35152737	max	28441	max	18056	max	35152737
%1 quantile	33.0	%1 quantile	29.0	%1 quantile	32.0	%1 quantile	30.0
%25 quantile	35.0	%25 quantile	31.0	%25 quantile	33.0	%25 quantile	32.0
%50 quantile	36.0	%50 quantile	33.0	%50 quantile	34.0	%50 quantile	34.0
%75 quantile	42.0	%75 quantile	39.0	%75 quantile	40.0	%75 quantile	40.0
%99 quantile	61.0	%99 quantile	97.0	%99 quantile	97.0	%99 quantile	96.0
%99,9 quantile	169.0	%99,9 quantile	239.0	%99,9 quantile	135.0	%99,9 quantile	204.0

- Order-by-order: tsl::bhopscotch_map
- Grouped-by-price: ska::bytell_hash_map

ADD RESULT		EXECUTE RESULT		DELETE RESULT		GLOBAL RESULT	
mean	65.39	mean	31.74	mean	36.46	mean	38.13
std	25549.26	std	92.72	std	71.4	std	10430.76
min	29	min	24	min	28	min	24
max	34716696	max	77678	max	26634	max	34716696
%1 quantile	32.0	%1 quantile	27.0	%1 quantile	32.0	%1 quantile	28.0
%25 quantile	33.0	%25 quantile	28.0	%25 quantile	33.0	%25 quantile	29.0
%50 quantile	34.0	%50 quantile	29.0	%50 quantile	34.0	%50 quantile	30.0
%75 quantile	35.0	%75 quantile	30.0	%75 quantile	35.0	%75 quantile	34.0
%99 quantile	63.0	%99 quantile	93.0	%99 quantile	98.0	%99 quantile	93.0
%99,9 quantile	191.0	%99,9 quantile	145.0	%99,9 quantile	287.0	%99,9 quantile	189.0

- Order-by-order: tsl::bhopscotch_map
- Grouped-by-price: ska::flat_hash_map

ADD RESULT		EXECUTE RESULT		DELETE RESULT		GLOBAL RESULT	
mean	64.87	mean	31.09	mean	32.9	mean	37.02
std	25615.61	std	88.19	std	51.37	std	10457.81
min	29	min	23	min	25	min	23
max	34870806	max	31875	max	19878	max	34870806
%1 quantile	31.0	%1 quantile	25.0	%1 quantile	28.0	%1 quantile	27.0
%25 quantile	33.0	%25 quantile	28.0	%25 quantile	30.0	%25 quantile	28.0
%50 quantile	34.0	%50 quantile	28.0	%50 quantile	30.0	%50 quantile	29.0
%75 quantile	36.0	%75 quantile	30.0	%75 quantile	32.0	%75 quantile	33.0
%99 quantile	58.0	%99 quantile	92.0	%99 quantile	94.0	%99 quantile	91.0
%99,9 quantile	216.0	%99,9 quantile	162.0	%99,9 quantile	167.0	%99,9 quantile	170.0

- Order-by-order: tsl::bhopscotch_map
- Grouped-by-price: tsl::bhopscotch_map

ADD RESULT		EXECUTE RESULT		DELETE RESULT		GLOBAL RESULT	
mean	66.57	mean	29.23	mean	31.25	mean	35.79
std	25675.98	std	85.92	std	58.74	std	10482.45
min	31	min	22	min	25	min	22
max	34853197	max	25356	max	18045	max	34853197
%1 quantile	33.0	%1 quantile	24.0	%1 quantile	27.0	%1 quantile	25.0
%25 quantile	34.0	%25 quantile	26.0	%25 quantile	28.0	%25 quantile	27.0
%50 quantile	35.0	%50 quantile	27.0	%50 quantile	29.0	%50 quantile	28.0
%75 quantile	37.0	%75 quantile	28.0	%75 quantile	30.0	%75 quantile	32.0
%99 quantile	63.0	%99 quantile	90.0	%99 quantile	92.0	%99 quantile	90.0
%99,9 quantile	211.0	%99,9 quantile	185.0	%99,9 quantile	135.0	%99,9 quantile	184.0

- Order-by-order: tsl::bhopscotch_map
- Grouped-by-price: tsl::hopscotch_map

ADD RESULT		EXECUTE RESULT		DELETE RESULT		GLOBAL RESULT	
mean	68.78	mean	29.09	mean	31.49	mean	36.1
std	26726.92	std	100.77	std	60.58	std	10911.57
min	31	min	22	min	25	min	22
max	35156248	max	53397	max	18069	max	35156248
%1 quantile	34.0	%1 quantile	24.0	%1 quantile	28.0	%1 quantile	25.0
%25 quantile	35.0	%25 quantile	26.0	%25 quantile	28.0	%25 quantile	26.0
%50 quantile	36.0	%50 quantile	27.0	%50 quantile	29.0	%50 quantile	28.0
%75 quantile	37.0	%75 quantile	28.0	%75 quantile	30.0	%75 quantile	32.0
%99 quantile	65.0	%99 quantile	91.0	%99 quantile	92.0	%99 quantile	90.0
%99,9 quantile	259.0	%99,9 quantile	182.0	%99,9 quantile	136.0	%99,9 quantile	202.0

- Order-by-order: tsl::bhopscotch_map
- Grouped-by-price: tsl::robin_map

ADD RESULT		EXECUTE RESULT		DELETE RESULT		GLOBAL RESULT	
mean	64.08	mean	29.11	mean	32.04	mean	35.43
std	25846.1	std	84.11	std	80.89	std	10551.91
min	29	min	22	min	24	min	22
max	35175773	max	26192	max	26393	max	35175773
%1 quantile	31.0	%1 quantile	24.0	%1 quantile	28.0	%1 quantile	24.0
%25 quantile	32.0	%25 quantile	25.0	%25 quantile	29.0	%25 quantile	27.0
%50 quantile	33.0	%50 quantile	28.0	%50 quantile	30.0	%50 quantile	28.0
%75 quantile	34.0	%75 quantile	28.0	%75 quantile	31.0	%75 quantile	31.0
%99 quantile	57.0	%99 quantile	90.0	%99 quantile	93.0	%99 quantile	90.0
%99,9 quantile	153.0	%99,9 quantile	182.0	%99,9 quantile	185.0	%99,9 quantile	176.0

- Order-by-order: tsl::hopscotch_map
- Grouped-by-price: emhash7::HashMap

ADD RESULT		EXECUTE RESULT		DELETE RESULT		GLOBAL RESULT	
mean	63.16	mean	29.7	mean	30.22	mean	35.36
std	26819.22	std	69.97	std	47.65	std	10949.07
min	28	min	22	min	24	min	22
max	36855077	max	27964	max	18011	max	36855077
%1 quantile	30.0	%1 quantile	25.0	%1 quantile	26.0	%1 quantile	25.0
%25 quantile	30.0	%25 quantile	26.0	%25 quantile	27.0	%25 quantile	27.0
%50 quantile	31.0	%50 quantile	28.0	%50 quantile	29.0	%50 quantile	29.0
%75 quantile	32.0	%75 quantile	29.0	%75 quantile	29.0	%75 quantile	30.0
%99 quantile	56.0	%99 quantile	90.0	%99 quantile	92.0	%99 quantile	90.0
%99,9 quantile	163.0	%99,9 quantile	194.0	%99,9 quantile	264.0	%99,9 quantile	213.0

- Order-by-order: tsl::hopscotch_map
- Grouped-by-price: google::dense_hash_map

ADD RESULT		EXECUTE RESULT		DELETE RESULT		GLOBAL RESULT	
mean	63.02	mean	27.85	mean	32.08	mean	34.41
std	26271.5	std	82.02	std	60.76	std	10725.54
min	29	min	23	min	27	min	23
max	35805973	max	23326	max	18159	max	35805973
%1 quantile	31.0	%1 quantile	25.0	%1 quantile	28.0	%1 quantile	25.0
%25 quantile	31.0	%25 quantile	25.0	%25 quantile	29.0	%25 quantile	26.0
%50 quantile	32.0	%50 quantile	26.0	%50 quantile	30.0	%50 quantile	27.0
%75 quantile	33.0	%75 quantile	27.0	%75 quantile	31.0	%75 quantile	30.0
%99 quantile	56.0	%99 quantile	89.0	%99 quantile	91.0	%99 quantile	88.0
%99,9 quantile	149.0	%99,9 quantile	209.0	%99,9 quantile	188.0	%99,9 quantile	196.0

- Order-by-order: tsl::hopscotch_map
- Grouped-by-price: hrd7::hash_map

ADD RESULT		EXECUTE RESULT		DELETE RESULT		GLOBAL RESULT	
mean	65.91	mean	31.93	mean	34.18	mean	37.97
std	26104.98	std	79.44	std	57.01	std	10657.54
min	28	min	23	min	27	min	23
max	35570564	max	26329	max	26579	max	35570564
%1 quantile	31.0	%1 quantile	26.0	%1 quantile	30.0	%1 quantile	28.0
%25 quantile	33.0	%25 quantile	29.0	%25 quantile	31.0	%25 quantile	29.0
%50 quantile	34.0	%50 quantile	29.0	%50 quantile	32.0	%50 quantile	30.0
%75 quantile	36.0	%75 quantile	31.0	%75 quantile	33.0	%75 quantile	34.0
%99 quantile	57.0	%99 quantile	93.0	%99 quantile	95.0	%99 quantile	92.0
%99,9 quantile	211.0	%99,9 quantile	153.0	%99,9 quantile	211.0	%99,9 quantile	174.0

- Order-by-order: tsl::hopscotch_map
- Grouped-by-price: ska::unordered_map

ADD RESULT		EXECUTE RESULT		DELETE RESULT		GLOBAL RESULT	
mean	73.54	mean	36.44	mean	37.33	mean	42.77
std	26257.31	std	89.47	std	69.76	std	10719.8
min	32	min	23	min	26	min	23
max	35728467	max	27197	max	26109	max	35728467
%1 quantile	36.0	%1 quantile	28.0	%1 quantile	30.0	%1 quantile	29.0
%25 quantile	38.0	%25 quantile	30.0	%25 quantile	32.0	%25 quantile	31.0
%50 quantile	40.0	%50 quantile	32.0	%50 quantile	33.0	%50 quantile	35.0
%75 quantile	47.0	%75 quantile	39.0	%75 quantile	40.0	%75 quantile	40.0
%99 quantile	74.0	%99 quantile	96.0	%99 quantile	97.0	%99 quantile	96.0
%99,9 quantile	173.0	%99,9 quantile	202.0	%99,9 quantile	136.0	%99,9 quantile	179.0

- Order-by-order: tsl::hopscotch_map
- Grouped-by-price: tsl::bhopscotch_map

ADD RESULT		EXECUTE RESULT		DELETE RESULT		GLOBAL RESULT	
mean	69.08	mean	29.02	mean	32.88	mean	36.34
std	28200.03	std	80.43	std	94.18	std	11512.87
min	30	min	22	min	25	min	22
max	38712180	max	85894	max	26808	max	38712180
%1 quantile	33.0	%1 quantile	24.0	%1 quantile	28.0	%1 quantile	25.0
%25 quantile	34.0	%25 quantile	26.0	%25 quantile	29.0	%25 quantile	26.0
%50 quantile	36.0	%50 quantile	27.0	%50 quantile	30.0	%50 quantile	28.0
%75 quantile	37.0	%75 quantile	28.0	%75 quantile	32.0	%75 quantile	33.0
%99 quantile	57.0	%99 quantile	90.0	%99 quantile	93.0	%99 quantile	90.0
%99,9 quantile	133.0	%99,9 quantile	197.0	%99,9 quantile	184.0	%99,9 quantile	170.0

- Order-by-order: tsl::hopscotch_map
- Grouped-by-price: tsl::hopscotch_map

ADD RESULT		EXECUTE RESULT		DELETE RESULT		GLOBAL RESULT	
mean	68.37	mean	29.1	mean	31.8	mean	36.1
std	27034.05	std	72.94	std	58.65	std	11036.8
min	30	min	21	min	25	min	21
max	37273712	max	26172	max	26654	max	37273712
%1 quantile	33.0	%1 quantile	24.0	%1 quantile	28.0	%1 quantile	25.0
%25 quantile	34.0	%25 quantile	26.0	%25 quantile	28.0	%25 quantile	26.0
%50 quantile	36.0	%50 quantile	27.0	%50 quantile	29.0	%50 quantile	28.0
%75 quantile	37.0	%75 quantile	28.0	%75 quantile	30.0	%75 quantile	33.0
%99 quantile	59.0	%99 quantile	90.0	%99 quantile	93.0	%99 quantile	90.0
%99,9 quantile	141.0	%99,9 quantile	190.0	%99,9 quantile	157.0	%99,9 quantile	170.0

- Order-by-order: tsl::hopscotch_map
- Grouped-by-price: tsl::robin_map

ADD RESULT		EXECUTE RESULT		DELETE RESULT		GLOBAL RESULT	
mean	64.24	mean	29.52	mean	31.35	mean	35.61
std	25847.15	std	114.71	std	67.88	std	10552.51
min	29	min	22	min	24	min	22
max	35252869	max	153651	max	23595	max	35252869
%1 quantile	31.0	%1 quantile	24.0	%1 quantile	27.0	%1 quantile	24.0
%25 quantile	32.0	%25 quantile	25.0	%25 quantile	28.0	%25 quantile	27.0
%50 quantile	33.0	%50 quantile	28.0	%50 quantile	29.0	%50 quantile	28.0
%75 quantile	34.0	%75 quantile	28.0	%75 quantile	30.0	%75 quantile	31.0
%99 quantile	56.0	%99 quantile	89.0	%99 quantile	92.0	%99 quantile	89.0
%99,9 quantile	167.0	%99,9 quantile	198.0	%99,9 quantile	138.0	%99,9 quantile	182.0

- Order-by-order: tsl::robin_map
- Grouped-by-price: emhash7::HashMap

ADD RESULT		EXECUTE RESULT		DELETE RESULT		GLOBAL RESULT	
mean	71.11	mean	28.95	mean	30.79	mean	36.28
std	32285.13	std	380.85	std	76.14	std	13184.06
min	30	min	21	min	24	min	21
max	43957335	max	196940	max	27827	max	43957335
%1 quantile	32.0	%1 quantile	23.0	%1 quantile	27.0	%1 quantile	24.0
%25 quantile	32.0	%25 quantile	24.0	%25 quantile	28.0	%25 quantile	26.0
%50 quantile	33.0	%50 quantile	27.0	%50 quantile	28.0	%50 quantile	27.0
%75 quantile	33.0	%75 quantile	27.0	%75 quantile	29.0	%75 quantile	29.0
%99 quantile	60.0	%99 quantile	88.0	%99 quantile	91.0	%99 quantile	88.0
%99,9 quantile	147.0	%99,9 quantile	141.0	%99,9 quantile	280.0	%99,9 quantile	203.0

- Order-by-order: tsl::robin_map
- Grouped-by-price: google::dense_hash_map

ADD RESULT		EXECUTE RESULT		DELETE RESULT		GLOBAL RESULT	
mean	75.1	mean	28.01	mean	34.03	mean	36.86
std	33715.8	std	110.28	std	138.63	std	13764.84
min	32	min	22	min	27	min	22
max	45797056	max	29087	max	26363	max	45797056
%1 quantile	33.0	%1 quantile	24.0	%1 quantile	29.0	%1 quantile	24.0
%25 quantile	34.0	%25 quantile	25.0	%25 quantile	30.0	%25 quantile	25.0
%50 quantile	34.0	%50 quantile	26.0	%50 quantile	31.0	%50 quantile	26.0
%75 quantile	35.0	%75 quantile	26.0	%75 quantile	32.0	%75 quantile	32.0
%99 quantile	61.0	%99 quantile	89.0	%99 quantile	93.0	%99 quantile	89.0
%99,9 quantile	232.0	%99,9 quantile	221.0	%99,9 quantile	198.0	%99,9 quantile	218.0

- Order-by-order: tsl::robin_map
- Grouped-by-price: hrd7::hash_map

ADD RESULT		EXECUTE RESULT		DELETE RESULT		GLOBAL RESULT	
mean	72.96	mean	32.83	mean	33.7	mean	39.66
std	33415.24	std	88.26	std	61.36	std	13641.93
min	31	min	24	min	27	min	24
max	45862210	max	36295	max	26927	max	45862210
%1 quantile	33.0	%1 quantile	27.0	%1 quantile	29.0	%1 quantile	28.0
%25 quantile	33.0	%25 quantile	30.0	%25 quantile	30.0	%25 quantile	30.0
%50 quantile	33.0	%50 quantile	30.0	%50 quantile	31.0	%50 quantile	31.0
%75 quantile	34.0	%75 quantile	31.0	%75 quantile	32.0	%75 quantile	33.0
%99 quantile	68.0	%99 quantile	93.0	%99 quantile	92.0	%99 quantile	93.0
%99,9 quantile	168.0	%99,9 quantile	187.0	%99,9 quantile	152.0	%99,9 quantile	179.0

- Order-by-order: tsl::robin_map
- Grouped-by-price: tsl::bhopscotch_map

ADD RESULT		EXECUTE RESULT		DELETE RESULT		GLOBAL RESULT	
mean	72.19	mean	28.55	mean	32.16	mean	36.42
std	32184.92	std	77.75	std	85.42	std	13139.65
min	32	min	22	min	25	min	22
max	43836192	max	38864	max	27582	max	43836192
%1 quantile	33.0	%1 quantile	24.0	%1 quantile	28.0	%1 quantile	24.0
%25 quantile	33.0	%25 quantile	26.0	%25 quantile	29.0	%25 quantile	26.0
%50 quantile	34.0	%50 quantile	27.0	%50 quantile	30.0	%50 quantile	27.0
%75 quantile	34.0	%75 quantile	27.0	%75 quantile	31.0	%75 quantile	32.0
%99 quantile	61.0	%99 quantile	89.0	%99 quantile	92.0	%99 quantile	90.0
%99,9 quantile	232.0	%99,9 quantile	189.0	%99,9 quantile	170.0	%99,9 quantile	190.0

- Order-by-order: tsl::robin_map
- Grouped-by-price: tsl::hopscotch_map

ADD RESULT		EXECUTE RESULT		DELETE RESULT		GLOBAL RESULT	
mean	72.85	mean	28.9	mean	33.16	mean	36.93
std	32247.16	std	83.65	std	79.43	std	13165.07
min	32	min	22	min	26	min	22
max	43841005	max	23347	max	24319	max	43841005
%1 quantile	34.0	%1 quantile	24.0	%1 quantile	29.0	%1 quantile	25.0
%25 quantile	34.0	%25 quantile	26.0	%25 quantile	30.0	%25 quantile	26.0
%50 quantile	35.0	%50 quantile	27.0	%50 quantile	31.0	%50 quantile	28.0
%75 quantile	35.0	%75 quantile	28.0	%75 quantile	32.0	%75 quantile	32.0
%99 quantile	65.0	%99 quantile	90.0	%99 quantile	94.0	%99 quantile	90.0
%99,9 quantile	263.0	%99,9 quantile	188.0	%99,9 quantile	218.0	%99,9 quantile	206.0

- Order-by-order: tsl::robin_map
- Grouped-by-price: tsl::robin_map

ADD RESULT		EXECUTE RESULT		DELETE RESULT		GLOBAL RESULT	
mean	73.48	mean	27.74	mean	32.36	mean	36.14
std	32909.56	std	54.88	std	142.89	std	13435.48
min	32	min	22	min	24	min	22
max	43845526	max	25178	max	26422	max	43845526
%1 quantile	33.0	%1 quantile	23.0	%1 quantile	27.0	%1 quantile	24.0
%25 quantile	33.0	%25 quantile	24.0	%25 quantile	28.0	%25 quantile	26.0
%50 quantile	34.0	%50 quantile	27.0	%50 quantile	30.0	%50 quantile	27.0
%75 quantile	34.0	%75 quantile	27.0	%75 quantile	31.0	%75 quantile	30.0
%99 quantile	60.0	%99 quantile	88.0	%99 quantile	92.0	%99 quantile	89.0
%99,9 quantile	176.0	%99,9 quantile	145.0	%99,9 quantile	209.0	%99,9 quantile	165.0