

# YCSB 0.98.6.1 vs 0.98.7-SNAPSHOT (c220be9)

## Methodology

YCSB Client: [https://github.com/apurtell/ycsb/tree/new\\_hbase\\_client](https://github.com/apurtell/ycsb/tree/new_hbase_client)

All-localhost test cluster, 64-bit 7u67, CMS GC, ZK 1 GB heap, master 1 GB heap, regionserver 4 GB heap

1. Create table 'seed' with family 'u' compression SNAPPY

2. Load 1M records with YCSB

3. Create snapshot and disable 'seed'

For each workload:

4. Clone snapshot to new table 'test'

5. Run workload, 1M operations, 10 "YCSB threads"

6. Disable and drop table 'test'

## Workload A

		0.98.6.1	0.98.7 (c220be9)
[OVERALL]	RunTime(ms)	147895	141967
[OVERALL]	Throughput(ops/sec)	6761.5538051	7043.8904815908
[UPDATE]	Operations	500398	499656
[UPDATE]	AverageLatency(us)	1807.0370905	1746.086071217
[UPDATE]	MinLatency(us)	247	266
[UPDATE]	MaxLatency(us)	466476	511530
[UPDATE]	95thPercentileLatency(ms)	3	3
[UPDATE]	99thPercentileLatency(ms)	10	8
[READ]	Operations	499612	500354
[READ]	AverageLatency(us)	1090.8396516	1032.5452799418
[READ]	MinLatency(us)	249	231
[READ]	MaxLatency(us)	403409	406059
[READ]	95thPercentileLatency(ms)	2	1
[READ]	99thPercentileLatency(ms)	5	4

## Workload B

[OVERALL]	RunTime(ms)	143524	128304
[OVERALL]	Throughput(ops/sec)	6967.4758229	7793.9892754708
[UPDATE]	Operations	49684	49991
[UPDATE]	AverageLatency(us)	2425.0910353	2174.0613710468
[UPDATE]	MinLatency(us)	260	311
[UPDATE]	MaxLatency(us)	197582	185649
[UPDATE]	95thPercentileLatency(ms)	6	5
[UPDATE]	99thPercentileLatency(ms)	10	9
[READ]	Operations	950326	950019
[READ]	AverageLatency(us)	1351.2972759	1204.7296085657
[READ]	MinLatency(us)	204	203
[READ]	MaxLatency(us)	384196	429161
[READ]	95thPercentileLatency(ms)	3	2
[READ]	99thPercentileLatency(ms)	6	5

## Workload C

[OVERALL]	RunTime(ms)	100430	95587
[OVERALL]	Throughput(ops/sec)	9957.1841083	10461.673658552

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[READ]	Operations	1000000	1000000
[READ]	AverageLatency(us)	972.367792	922.503683
[READ]	MinLatency(us)	164	171
[READ]	MaxLatency(us)	443400	418954
[READ]	95thPercentileLatency(ms)	2	1
[READ]	99thPercentileLatency(ms)	5	4

## Workload D

[OVERALL]	RunTime(ms)	130792	124292
[OVERALL]	Throughput(ops/sec)	7645.7275674	8045.5701090979
[INSERT]	Operations	49864	49963
[INSERT]	AverageLatency(us)	2302.0706121	2183.894021576
[INSERT]	MinLatency(us)	381	342
[INSERT]	MaxLatency(us)	193926	140160
[INSERT]	95thPercentileLatency(ms)	5	4
[INSERT]	99thPercentileLatency(ms)	9	9
[READ]	Operations	950136	950037
[READ]	AverageLatency(us)	1220.6427048	1160.5607876325
[READ]	MinLatency(us)	193	181
[READ]	MaxLatency(us)	518456	367755
[READ]	95thPercentileLatency(ms)	2	2
[READ]	99thPercentileLatency(ms)	5	5

## Workload E

[OVERALL]	RunTime(ms)	631489	584437
[OVERALL]	Throughput(ops/sec)	1583.5588585	1711.0484106927
[INSERT]	Operations	49777	50572
[INSERT]	AverageLatency(us)	3476.8781164	3364.8334058372
[INSERT]	MinLatency(us)	485	508
[INSERT]	MaxLatency(us)	244104	1354836
[INSERT]	95thPercentileLatency(ms)	7	6
[INSERT]	99thPercentileLatency(ms)	13	12
[SCAN]	Operations	950223	949428
[SCAN]	AverageLatency(us)	6407.3740964	5921.7683447297
[SCAN]	MinLatency(us)	566	597
[SCAN]	MaxLatency(us)	508971	1544826
[SCAN]	95thPercentileLatency(ms)	12	10
[SCAN]	99thPercentileLatency(ms)	39	37

## Workload F

[OVERALL]	RunTime(ms)	243779	222109
[OVERALL]	Throughput(ops/sec)	4102.0760607	4502.2939187516
[UPDATE]	Operations	500337	500158
[UPDATE]	AverageLatency(us)	2127.2481827	1959.7615093631
[UPDATE]	MinLatency(us)	269	264
[UPDATE]	MaxLatency(us)	137137	118669

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[UPDATE]	95thPercentileLatency(ms)	5	4
[UPDATE]	99thPercentileLatency(ms)	8	8
[READ-MODIFY-WRITE]	Operations	500327	500148
[READ-MODIFY-WRITE]	AverageLatency(us)	3469.4956339	3166.0614098227
[READ-MODIFY-WRITE]	MinLatency(us)	622	591
[READ-MODIFY-WRITE]	MaxLatency(us)	645419	498190
[READ-MODIFY-WRITE]	95thPercentileLatency(ms)	7	6
[READ-MODIFY-WRITE]	99thPercentileLatency(ms)	12	11
[READ]	Operations	1000000	1000000
[READ]	AverageLatency(us)	1335.899734	1203.891134
[READ]	MinLatency(us)	254	222
[READ]	MaxLatency(us)	547020	411886
[READ]	95thPercentileLatency(ms)	2	2
[READ]	99thPercentileLatency(ms)	5	5