# **Ignite Performance -3Nodes**

## 1. 3 Nodes

• Hardware

• CPU: 32 Core

• Mem: 128G

• Test Configuration

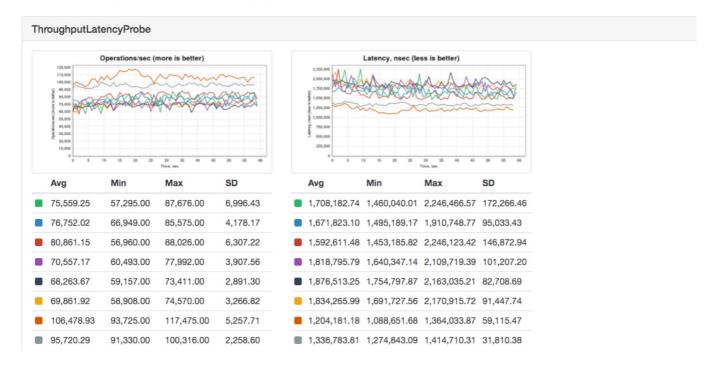
Thread: 128 BACKUP: 1

o JDK: 1.8

#### 1.1 Result Summary-TX:OPTIMISTIC/SERIALIZABLE

TransactionConcurrency	TransactionIsolation
OPTIMISTIC	SERIALIZABLE

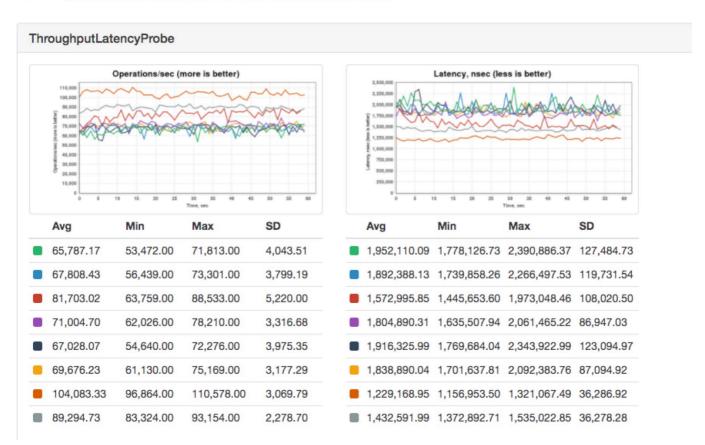
IgnitePutBenchmark	RELEASE-atomic-put-1-backup
IgnitePutGetBenchmark	RELEASE-atomic-put-get-1-backup
IgnitePutTxBenchmark	RELEASE-tx-put-1-backup
IgniteGetAndPutTxBenchmark	RELEASE-tx-getAndPut-1-backup
IgniteInvokeTxBenchmark	RELEASE-tx-invoke-1-backup
IgnitePutGetTxBenchmark	RELEASE-tx-put-get-1-backup
IgniteSqlQueryBenchmark	RELEASE-sql-query-1-backup
IgniteSqlQueryJoinBenchmark	RELEASE-sql-query-join-1-backup



#### 1.2 Result Summary-TX:OPTIMISTIC/REPEATABLE-READ

TransactionConcurrency	TransactionIsolation	
OPTIMISTIC	REPEATABLE-READ	

	IgnitePutBenchmark	RELEASE-atomic-put-1-backup
	IgnitePutGetBenchmark	RELEASE-atomic-put-get-1-backup
	IgnitePutTxBenchmark	RELEASE-tx-put-1-backup
	IgniteGetAndPutTxBenchmark	RELEASE-tx-getAndPut-1-backup
	IgniteInvokeTxBenchmark	RELEASE-tx-invoke-1-backup
	IgnitePutGetTxBenchmark	RELEASE-tx-put-get-1-backup
•	IgniteSqlQueryBenchmark	RELEASE-sql-query-1-backup
	IgniteSqlQueryJoinBenchmark	RELEASE-sql-query-join-1-backup



#### 1.3 Result Summary-TX:PESSIMISTIC/REPEATABLE-READ

TransactionConcurrency	TransactionIsolation	
PESSIMISTIC	REPEATABLE-READ	

	IgnitePutBenchmark	RELEASE-atomic-put-1-backup
	IgnitePutGetBenchmark	RELEASE-atomic-put-get-1-backup
	IgnitePutTxBenchmark	RELEASE-tx-put-1-backup
	IgniteGetAndPutTxBenchmark	RELEASE-tx-getAndPut-1-backup
	IgniteInvokeTxBenchmark	RELEASE-tx-invoke-1-backup
•	IgnitePutGetTxBenchmark	RELEASE-tx-put-get-1-backup
	IgniteSqlQueryBenchmark	RELEASE-sql-query-1-backup
	IgniteSqlQueryJoinBenchmark	RELEASE-sql-query-join-1-backup

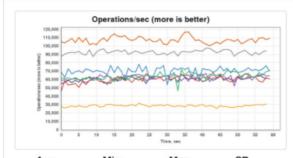
#### ThroughputLatencyProbe Operations/sec (more is better) Latency, nsec (less is better) 3,000,000 Avg Min Max SD Avg Min Max SD 65,482.85 51,950.00 71,389.00 4,339.84 **1**,962,105.90 1,793,377.66 2,466,775.41 140,109.60 68,353.27 51,814.00 75,222.00 3,733.21 1,878,805.18 1,702,005.13 2,467,759.97 113,212.73 58,167.95 24,421.00 64,676.00 5,864.25 **2**,239,403.28 1,973,228.02 5,235,344.28 427,158.61 61,760.32 49,000.00 68,356.00 3,349.84 2,077,346.78 1,871,761.56 2,608,547.43 120,964.36 58,126.61 46,040.00 62,531.00 2,843.44 **2**,209,937.08 2,046,337.31 2,779,451.23 123,082.84 4,572,286.60 4,177,708.36 5,369,232.47 220,368.02 28,064.54 24,575.00 30,622.00 1,218.07 97,733.32 90,839.00 113,807.00 4,859.35 **1**,311,510.51 1,123,761.77 1,408,015.56 61,846.79 90,109.67 82,906.00 95,471.00 2,439.94 **1,419,653.59 1,339,373.84 1,521,054.28 37,786.60**

### 1.4 Result Summary-TX:PESSIMISTIC/SERIALIZABLE

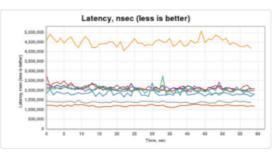
TransactionConcurrency	TransactionIsolation	
PESSIMISTIC	SERIALIZABLE	

Color	Benchmark	Configurations
•	IgnitePutBenchmark	RELEASE-atomic-put-1-backup
	IgnitePutGetBenchmark	RELEASE-atomic-put-get-1-backup
	IgnitePutTxBenchmark	RELEASE-tx-put-1-backup
	IgniteGetAndPutTxBenchmark	RELEASE-tx-getAndPut-1-backup
	IgniteInvokeTxBenchmark	RELEASE-tx-invoke-1-backup
•	IgnitePutGetTxBenchmark	RELEASE-tx-put-get-1-backup
•	IgniteSqlQueryBenchmark	RELEASE-sql-query-1-backup
	IgniteSqlQueryJoinBenchmark	RELEASE-sql-query-join-1-backup

#### Throughput Latency Probe



	Avg	Min	Max	SD
	64,052.12	46,838.00	71,805.00	4,070.93
	70,170.78	53,719.00	77,898.00	4,696.39
•	60,259.70	46,318.00	68,101.00	4,014.97
	62,047.32	51,964.00	67,193.00	3,013.63
	60,689.83	55,058.00	66,403.00	2,773.64
	28,584.03	25,237.00	31,662.00	1,246.21
	107,040.42	100,418.00	116,671.00	3,621.71
	92,543.58	87,278.00	97,616.00	2,421.15



Avg	Min	Max	SD
2,005,853.18	1,781,259.06	2,734,629.21	143,235.16
1,831,313.60	1,643,235.57	2,381,519.29	135,546.94
2,132,155.23	1,867,400.68	2,737,651.08	151,551.68
2,065,700.83	1,903,986.26	2,418,966.65	97,646.81
2,112,990.66	1,926,010.25	2,343,763.79	99,299.93
4,486,348.42	4,045,762.89	5,071,230.17	196,566.86
1,196,397.02	1,103,088.11	1,270,787.96	39,002.05
1,382,882.40	1,310,499.24	1,464,811.36	35,376.48