

Ignite Performance -4Nodes

1. 3 Nodes

- Hardware
 - CPU: 32 Core
 - Mem: 128G
- Test Configuration
 - Thread: 128
 - BACKUP: 1
 - JDK: 1.8

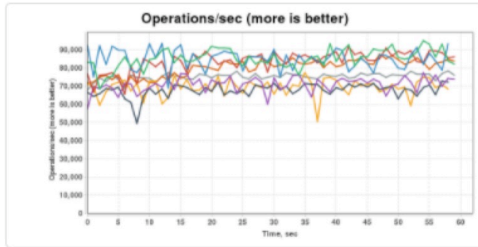
1.1 Result Summary-TX:OPTIMISTIC/SERIALIZABLE

TransactionConcurrency	TransactionIsolation
OPTIMISTIC	SERIALIZABLE

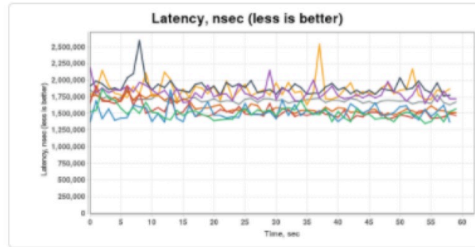
Result:

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

ThroughputLatencyProbe



	Avg	Min	Max	SD
■	85,297.43	68,488.00	95,040.00	5,145.37
■	84,901.31	68,961.00	93,542.00	5,442.43
■	83,712.65	65,608.00	91,801.00	5,560.33
■	70,921.12	57,539.00	77,401.00	4,051.04
■	67,745.41	49,309.00	72,675.00	3,608.16
■	69,373.73	50,372.00	77,425.00	4,734.84
■	80,195.72	69,884.00	87,504.00	4,589.02
■	75,230.33	67,854.00	78,451.00	1,959.72



	Avg	Min	Max	SD
■	1,505,124.45	1,346,781.73	1,866,339.79	95,392.96
■	1,513,374.90	1,366,526.20	1,855,535.72	100,434.52
■	1,534,594.89	1,394,697.55	1,919,134.24	111,047.09
■	1,808,672.25	1,652,729.80	2,191,504.98	107,641.09
■	1,894,916.02	1,762,008.20	2,595,030.37	118,610.69
■	1,853,649.30	1,626,675.67	2,540,125.67	145,349.61
■	1,599,477.80	1,461,581.98	1,829,564.53	94,830.48
■	1,700,670.52	1,630,547.32	1,857,487.62	44,634.49

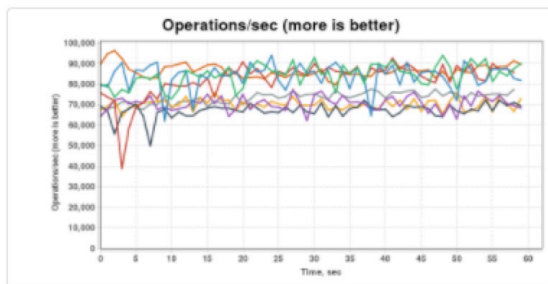
1.2 Result Summary-TX:OPTIMISTIC/REPEATABLE-READ

TransactionConcurrency	TransactionIsolation
OPTIMISTIC	REPEATABLE-READ

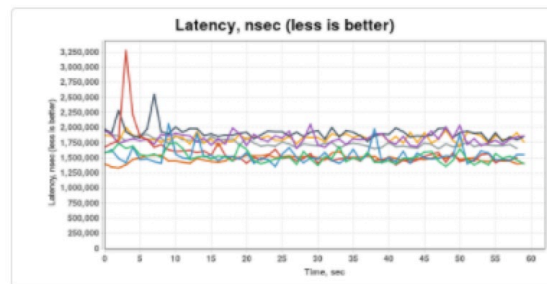
Result:

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

ThroughputLatencyProbe



	Avg	Min	Max	SD
■	84,552.10	73,003.00	93,997.00	5,312.25
■	83,909.48	62,073.00	94,105.00	6,190.02
■	82,338.90	38,810.00	92,744.00	8,557.59
■	70,598.20	62,187.00	77,293.00	3,446.28
■	67,144.83	50,118.00	72,278.00	3,435.51
■	70,112.28	64,216.00	75,769.00	2,603.26
■	86,437.58	79,683.00	96,328.00	3,137.97
■	73,385.31	64,183.00	77,507.00	2,882.45



	Avg	Min	Max	SD
■	1,518,126.51	1,359,407.53	1,751,974.60	98,206.64
■	1,533,270.45	1,359,116.63	2,060,535.61	134,423.91
■	1,579,471.45	1,380,476.82	3,272,023.61	262,270.46
■	1,815,398.23	1,654,744.13	2,057,434.53	90,528.09
■	1,912,885.83	1,769,598.99	2,551,714.46	113,921.10
■	1,826,563.09	1,687,894.17	1,996,608.57	65,700.26
■	1,480,896.09	1,328,138.15	1,604,071.77	53,707.92
■	1,745,504.28	1,649,653.08	1,958,931.61	69,993.24

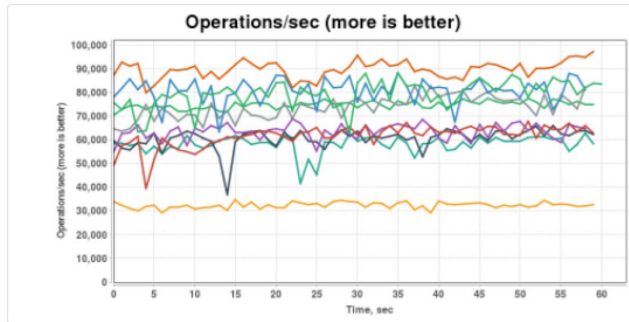
1.3 Result Summary-TX:PESSIMISTIC/REPEATABLE-READ

TransactionConcurrency	TransactionIsolation
PESSIMISTIC	REPEATABLE-READ

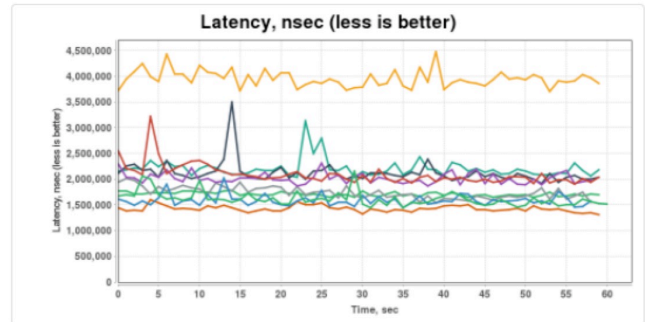
Result:

IgnitePutBenchmark	RELEASE-atomic-put-1-backup-PESSIMISTICREPEATABLE_READ
IgnitePutGetBenchmark	RELEASE-atomic-put-get-1-backup-PESSIMISTICREPEATABLE_READ
IgnitePutTxBenchmark	RELEASE-tx-put-1-backup-PESSIMISTICREPEATABLE_READ
IgniteGetAndPutTxBenchmark	RELEASE-tx-getAndPut-1-backup-PESSIMISTICREPEATABLE_READ
IgniteInvokeTxBenchmark	RELEASE-tx-invoke-1-backup-PESSIMISTICREPEATABLE_READ
IgnitePutGetTxBenchmark	RELEASE-tx-put-get-1-backup-PESSIMISTICREPEATABLE_READ
IgniteSqlQueryBenchmark	RELEASE-sql-query-1-backup-PESSIMISTICREPEATABLE_READ
IgnitePutValue8Benchmark	RELEASE-putvalue8-1-backup-PESSIMISTICREPEATABLE_READ
IgnitePutTxV8Benchmark	RELEASE-putvalue8TX-1-backup-PESSIMISTICREPEATABLE_READ
IgniteSqlQueryJoinBenchmark	RELEASE-sql-query-join-1-backup-PESSIMISTICREPEATABLE_READ

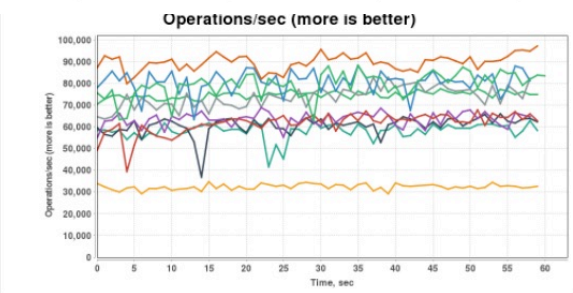
ThroughputLatencyProbe



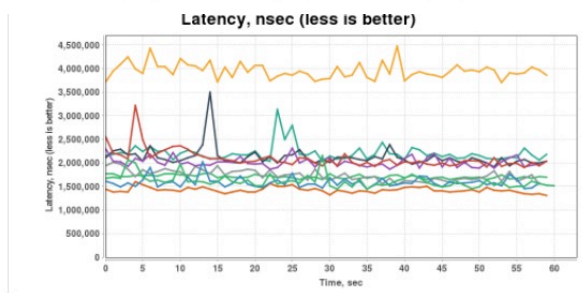
	Avg	Min	Max	SD
IgnitePutBenchmark	79,513.49	62,882.00	88,444.00	5,749.59
IgnitePutGetBenchmark	80,841.49	63,267.00	88,438.00	5,117.46
IgnitePutTxBenchmark	61,594.87	39,498.00	67,764.00	4,744.94
IgniteGetAndPutTxBenchmark	63,636.22	54,977.00	68,886.00	3,150.60
IgniteInvokeTxBenchmark	60,687.88	36,870.00	65,908.00	4,223.70
IgnitePutGetTxBenchmark	32,400.25	29,149.00	34,875.00	1,254.92



	Avg	Min	Max	SD
IgnitePutBenchmark	1,617,948.95	1,446,350.64	2,160,658.65	138,548.96
IgnitePutGetBenchmark	1,589,323.28	1,446,012.79	2,022,708.04	104,862.46
IgnitePutTxBenchmark	2,091,225.82	1,909,681.54	3,218,749.59	200,137.64
IgniteGetAndPutTxBenchmark	2,015,793.00	1,863,457.31	2,312,014.32	103,798.93
IgniteInvokeTxBenchmark	2,121,018.42	1,915,590.00	3,500,158.20	207,028.15
IgnitePutGetTxBenchmark	3,953,930.19	3,707,898.11	4,479,351.11	162,480.15



	Avg	Min	Max	SD
IgnitePutBenchmark	79,513.49	62,882.00	88,444.00	5,749.59
IgnitePutGetBenchmark	80,841.49	63,267.00	88,438.00	5,117.46
IgnitePutTxBenchmark	61,594.87	39,498.00	67,764.00	4,744.94
IgniteGetAndPutTxBenchmark	63,636.22	54,977.00	68,886.00	3,150.60
IgniteInvokeTxBenchmark	60,687.88	36,870.00	65,908.00	4,223.70
IgnitePutGetTxBenchmark	32,400.25	29,149.00	34,875.00	1,254.92
IgniteSqlQueryBenchmark	89,774.48	80,040.00	97,231.00	3,580.06
IgnitePutValue8Benchmark	73,809.78	63,682.00	82,794.00	4,763.57
IgnitePutTxV8Benchmark	58,216.38	41,552.00	62,824.00	3,663.80
IgniteSqlQueryJoinBenchmark	74,789.75	70,422.00	77,562.00	1,591.41



	Avg	Min	Max	SD
IgnitePutBenchmark	1,617,948.95	1,446,350.64	2,160,658.65	138,548.96
IgnitePutGetBenchmark	1,589,323.28	1,446,012.79	2,022,708.04	104,862.46
IgnitePutTxBenchmark	2,091,225.82	1,909,681.54	3,218,749.59	200,137.64
IgniteGetAndPutTxBenchmark	2,015,793.00	1,863,457.31	2,312,014.32	103,798.93
IgniteInvokeTxBenchmark	2,121,018.42	1,915,590.00	3,500,158.20	207,028.15
IgnitePutGetTxBenchmark	3,953,930.19	3,707,898.11	4,479,351.11	162,480.15
IgniteSqlQueryBenchmark	1,426,488.32	1,315,406.80	1,598,256.47	58,342.93
IgnitePutValue8Benchmark	1,740,160.06	1,544,240.57	2,009,351.54	113,161.85
IgnitePutTxV8Benchmark	2,207,202.93	2,036,237.29	3,134,914.23	173,026.23
IgniteSqlQueryJoinBenchmark	1,710,144.39	1,648,241.61	1,779,066.52	36,657.66

1.4 Result Summary-TX:PESSIMISTIC/SERIALIZABLE

TransactionConcurrency	TransactionIsolation
PESSIMISTIC	SERIALIZABLE

Result:

<div></div>	IgnitePutBenchmark	RELEASE-atomic-put-1-backup-PESSIMISTICSERIALIZABLE
<div></div>	IgnitePutGetBenchmark	RELEASE-atomic-put-get-1-backup-PESSIMISTICSERIALIZABLE
<div></div>	IgnitePutTxBenchmark	RELEASE-tx-put-1-backup-PESSIMISTICSERIALIZABLE
<div></div>	IgniteGetAndPutTxBenchmark	RELEASE-tx-getAndPut-1-backup-PESSIMISTICSERIALIZABLE
<div></div>	IgniteInvokeTxBenchmark	RELEASE-tx-invoke-1-backup-PESSIMISTICSERIALIZABLE
<div></div>	IgnitePutGetTxBenchmark	RELEASE-tx-put-get-1-backup-PESSIMISTICSERIALIZABLE
<div></div>	IgniteSqlQueryBenchmark	RELEASE-sql-query-1-backup-PESSIMISTICSERIALIZABLE
<div></div>	IgnitePutValue8Benchmark	RELEASE-putvalue8-1-backup-PESSIMISTICSERIALIZABLE
<div></div>	IgnitePutTxV8Benchmark	RELEASE-putvalue8TX-1-backup-PESSIMISTICSERIALIZABLE
<div></div>	IgniteSqlQueryJoinBenchmark	RELEASE-sql-query-join-1-backup-PESSIMISTICSERIALIZABLE

