

Ignite Performance -SingleNode

1. Single Node

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

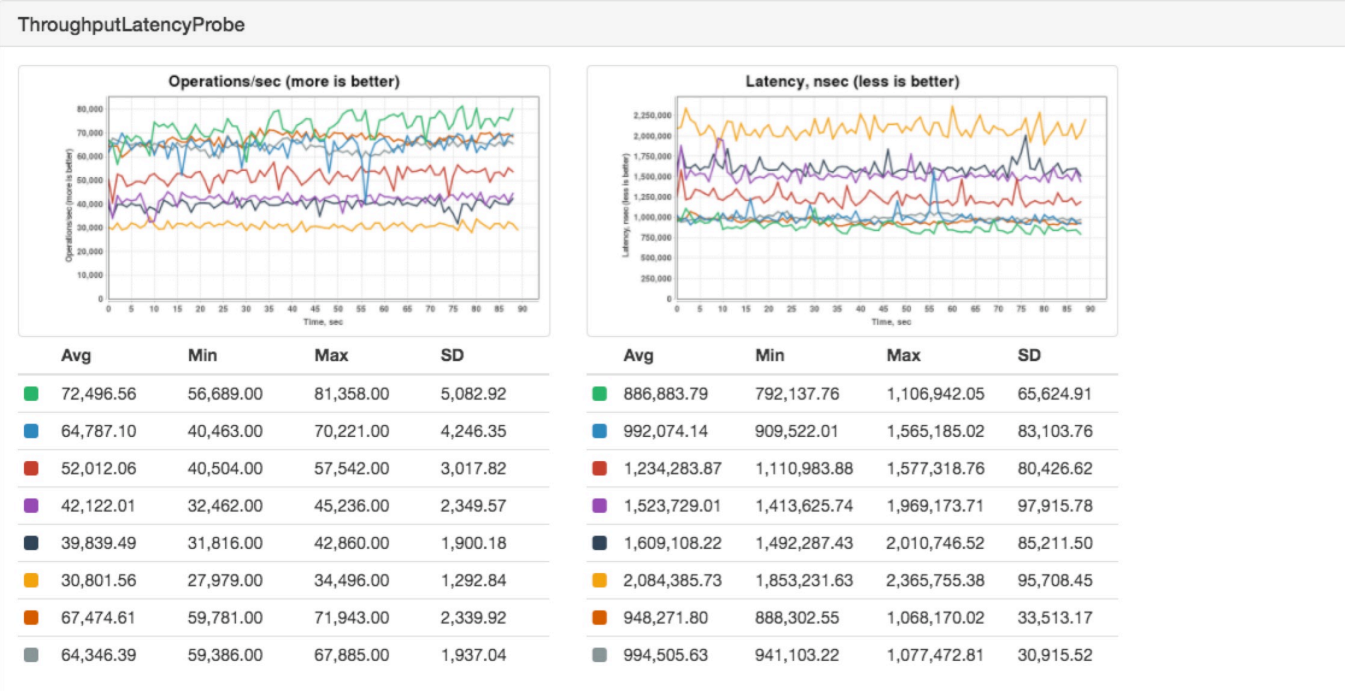
1.1 Result Summary-TX:OPTIMISTIC/SERIALIZABLE

result: results-20170821-101632/

TransactionConcurrency	TransactionIsolation
OPTIMISTIC	SERIALIZABLE

Result:

■	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

result: results-20170821-104719/

TransactionConcurrency	TransactionIsolation
OPTIMISTIC	REPEATABLE-READ

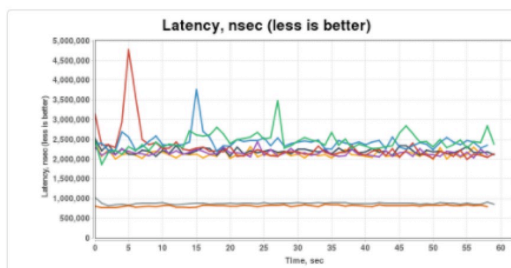
Result:

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

ThroughputLatencyProbe



	Avg	Min	Max	SD
■	52,746.25	36,991.00	68,443.00	4,509.89
■	53,100.03	33,644.00	57,744.00	3,507.50
■	56,905.17	26,866.00	64,331.00	6,399.09
■	59,382.15	52,299.00	63,033.00	2,146.00
■	58,122.38	50,226.00	61,662.00	2,056.41
■	60,443.93	52,216.00	64,425.00	2,387.95
■	157,289.90	149,945.00	167,462.00	4,297.61
■	145,698.65	123,386.00	155,157.00	3,976.75



	Avg	Min	Max	SD
■	2,445,384.04	1,868,560.25	3,473,471.99	224,491.51
■	2,423,897.88	2,192,778.39	3,753,285.96	207,847.31
■	2,292,583.22	1,988,725.65	4,775,727.97	414,428.06
■	2,156,968.45	2,029,431.47	2,444,893.29	80,601.99
■	2,203,069.85	2,074,786.28	2,518,759.75	80,597.55
■	2,119,473.58	1,986,212.52	2,427,945.90	86,550.37
■	813,437.39	763,351.27	852,738.64	22,151.91
■	878,211.81	823,917.04	1,025,712.28	25,171.62

1.3 Result Summary-TX:PESSIMISTIC/REPEATABLE-READ

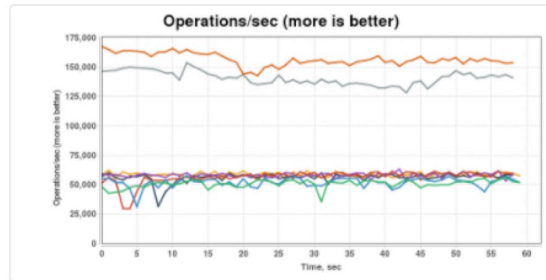
result: results-20170821-104719/

TransactionConcurrency	TransactionIsolation
PESSIMISTIC	REPEATABLE-READ

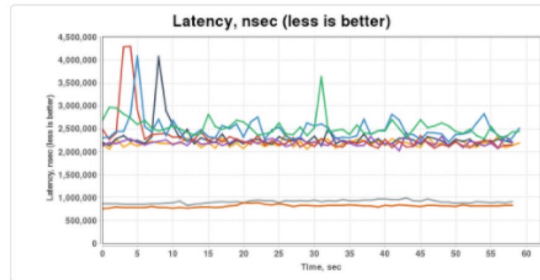
Result:

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

ThroughputLatencyProbe



	Avg	Min	Max	SD
■	50,712.60	35,436.00	55,759.00	3,436.28
■	51,897.10	31,066.00	57,540.00	4,210.96
■	56,439.98	29,758.00	61,203.00	5,874.69
■	58,162.44	52,917.00	63,092.00	1,897.70
■	56,154.41	31,362.00	59,908.00	4,236.92
■	58,574.50	53,385.00	62,112.00	1,948.57
■	156,624.20	142,779.00	167,573.00	5,306.83
■	140,714.24	128,353.00	153,390.00	5,609.85



	Avg	Min	Max	SD
■	2,536,964.01	2,284,498.50	3,640,015.34	207,674.13
■	2,485,436.22	2,211,958.59	4,097,696.88	264,092.39
■	2,306,982.91	2,088,163.32	4,303,418.07	398,498.04
■	2,201,373.59	2,028,305.90	2,417,373.46	70,394.47
■	2,297,787.68	2,134,174.96	4,077,466.39	265,299.01
■	2,185,765.76	2,058,211.33	2,396,817.92	73,519.15
■	817,226.14	758,520.12	894,217.32	28,121.77
■	909,982.57	833,693.37	996,037.51	36,308.57

1.3 Result Summary-TX:PESSIMISTIC/SERIALIZABLE

result: results-20170821-111035/

TransactionConcurrency	TransactionIsolation
PESSIMISTIC	SERIALIZABLE

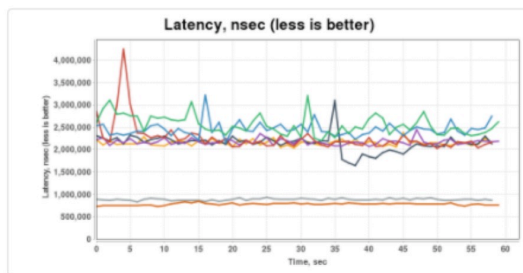
Result:

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

ThroughputLatencyProbe



	Avg	Min	Max	SD
■	50,407.08	39,767.00	58,106.00	4,062.73
■	52,415.41	46,758.00	58,723.00	2,382.64
■	57,319.78	30,184.00	63,225.00	5,808.46
■	58,929.20	53,710.00	61,662.00	1,735.15
■	60,205.66	42,266.00	77,592.00	5,346.71
■	59,572.42	53,689.00	62,844.00	1,739.39
■	163,540.90	151,429.00	175,292.00	4,792.30
■	144,403.75	137,351.00	152,793.00	3,238.95



	Avg	Min	Max	SD
■	2,554,137.38	2,200,877.30	3,209,620.55	218,904.76
■	2,454,852.62	2,156,602.15	3,219,151.68	157,877.95
■	2,258,869.84	2,023,652.59	4,252,325.92	328,930.82
■	2,173,787.94	2,072,341.88	2,446,402.42	67,797.13
■	2,141,222.19	1,647,976.52	3,105,608.98	196,741.95
■	2,150,424.06	2,035,939.45	2,383,502.89	64,306.57
■	782,301.05	729,523.89	845,036.31	23,121.92
■	885,865.87	836,917.66	930,431.07	19,780.35