

Ignite Performance -2Nodes

1. 2 Nodes

- 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

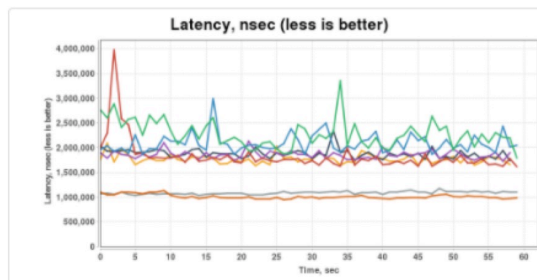
Result:

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
■	56,984.45	38,540.00	71,040.00	6,415.21
■	61,662.80	42,489.00	69,279.00	5,052.79
■	71,464.60	32,803.00	78,807.00	7,738.53
■	69,002.86	60,031.00	74,228.00	2,849.32
■	68,192.56	48,783.00	73,919.00	3,737.80
■	72,413.80	61,093.00	78,002.00	3,582.74
■	126,625.53	113,218.00	133,755.00	5,267.77
■	117,591.87	108,305.00	123,221.00	2,860.66



	Avg	Min	Max	SD
■	2,275,593.42	1,787,931.47	3,359,310.42	280,181.79
■	2,089,488.81	1,859,187.97	2,992,116.45	195,149.14
■	1,823,163.30	1,620,675.41	3,980,852.41	334,259.09
■	1,857,474.19	1,724,071.20	2,130,919.36	80,161.28
■	1,877,894.40	1,730,891.84	2,352,471.26	95,881.03
■	1,770,561.99	1,639,821.07	2,093,750.93	91,586.18
■	1,011,337.16	955,840.99	1,129,220.87	43,365.82
■	1,087,789.05	1,037,954.41	1,180,637.01	26,581.22

1.2 Result Summary-TX:OPTIMISTIC/REPEATABLE-READ

result: results-20170821-104719/

TransactionConcurrency	TransactionIsolation
OPTIMISTIC	REPEATABLE-READ

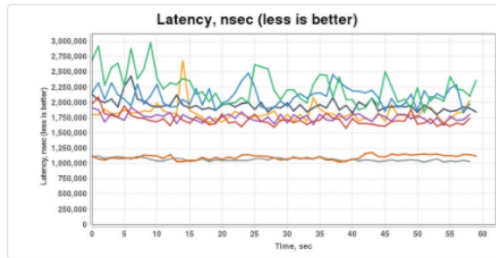
Result:

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
■	57,596.27	44,123.00	69,129.00	6,174.34
■	61,375.44	51,554.00	69,727.00	4,398.87
■	74,969.63	61,251.00	80,714.00	3,838.53
■	73,123.46	66,511.00	78,723.00	2,710.70
■	65,736.08	52,674.00	69,899.00	3,186.38
■	70,594.97	47,753.00	76,954.00	4,431.40
■	116,316.35	108,968.00	124,683.00	4,042.48
■	120,321.05	113,730.00	124,976.00	2,855.39



	Avg	Min	Max	SD
■	2,248,343.13	1,837,780.84	2,975,135.39	262,627.67
■	2,097,613.32	1,829,190.52	2,476,692.87	153,520.09
■	1,711,998.25	1,577,573.82	2,087,662.98	94,302.05
■	1,752,610.63	1,625,142.58	1,914,904.08	65,044.10
■	1,951,172.35	1,805,046.73	2,431,152.68	102,845.69
■	1,820,314.97	1,662,292.25	2,679,771.16	141,505.88
■	1,100,309.32	1,025,508.39	1,173,784.54	37,943.53
■	1,063,285.63	1,027,269.67	1,121,011.28	25,047.11

1.3 Result Summary-TX:PESSIMISTIC/REPEATABLE-READ

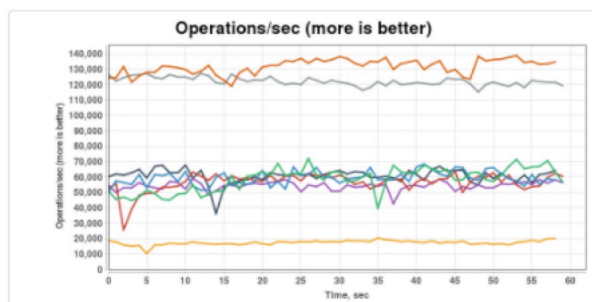
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TransactionConcurrency	TransactionIsolation
PESSIMISTIC	REPEATABLE-READ

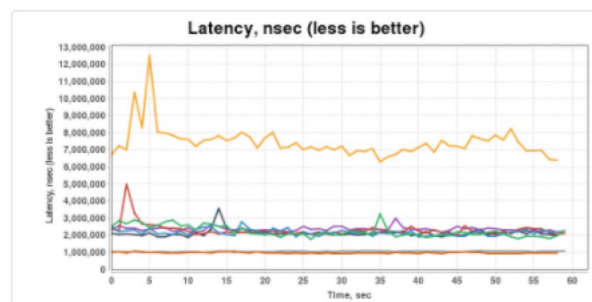
Result:

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
■	58,434.47	39,701.00	72,027.00	7,723.75
■	59,495.56	50,588.00	68,375.00	4,378.11
■	56,620.47	25,642.00	63,519.00	5,987.79
■	54,388.30	42,721.00	59,179.00	2,731.70
■	60,779.20	36,001.00	67,752.00	4,597.63
■	17,410.58	10,214.00	20,352.00	1,500.93
■	131,809.59	119,006.00	138,849.00	4,708.90
■	122,227.27	115,431.00	127,267.00	2,624.93



	Avg	Min	Max	SD
■	2,231,781.40	1,773,677.04	3,261,375.65	329,089.78
■	2,168,195.54	1,915,498.82	2,801,051.16	178,451.65
■	2,298,849.91	2,013,496.10	4,970,812.92	405,868.44
■	2,357,911.17	2,162,075.11	2,994,810.00	130,462.29
■	2,120,981.10	1,887,446.86	3,561,818.28	221,225.96
■	7,437,046.15	6,282,354.81	12,511,949.51	906,908.37
■	971,630.98	920,949.32	1,074,496.25	33,953.56
■	1,046,393.79	1,001,751.96	1,108,036.12	22,657.10

1.3 Result Summary-TX:PESSIMISTIC/SERIALIZABLE

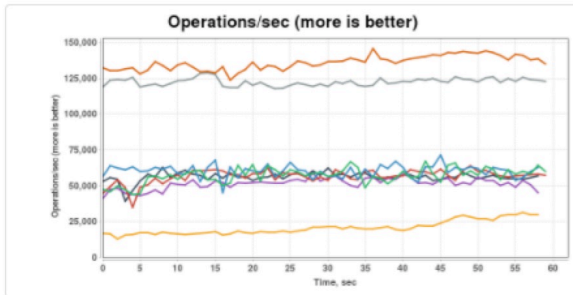
result: results-20170821-111035/

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
■	57,200.67	43,758.00	67,031.00	5,438.59
■	60,273.92	44,877.00	71,404.00	4,329.43
■	56,591.55	34,920.00	64,039.00	4,687.15
■	51,428.27	41,260.00	58,993.00	3,783.59
■	56,155.03	39,213.00	62,605.00	3,295.54
■	20,648.37	12,879.00	31,326.00	4,712.89
■	135,975.77	123,732.00	145,729.00	4,852.17
■	122,453.52	117,920.00	128,985.00	2,582.80



	Avg	Min	Max	SD
■	2,257,529.27	1,902,824.30	2,975,110.37	230,482.18
■	2,134,968.90	1,786,579.24	2,855,556.63	164,825.37
■	2,279,381.18	1,996,862.87	3,693,158.98	243,087.21
■	2,501,877.99	2,168,351.68	3,053,460.19	194,710.48
■	2,287,528.26	2,044,362.36	3,261,058.07	163,759.77
■	6,486,056.78	4,084,808.51	9,923,995.02	1,322,021.85
■	941,305.16	878,102.20	1,033,487.79	33,616.62
■	1,044,404.78	992,105.82	1,084,539.43	21,695.74