JDG - Overall

JDG 7.2: JDG 7.2.3.CR2
JDG 7.3: JDG 7.3.4.CR1
JDG 8.0: JDG 8.0.0.ER2

Library distributed

Non-TX reads 10 threads

Metric/Item	JDG 7.2 (/exec/552257)	JDG 7.3 (/exec/914505)	JDG 8.0 (/exec/934271)	Infinispan Master (/exec/940519)
BasicOperations.Get.ActualThroughput	81669.58	+2.35 %	+1.73 %	+2.56 %
BasicOperations.Get.ResponseTimeMean	974928.51	-2.38 %	-1.76 %	-2.54 %

Non-TX reads 100 threads

https://issues.jboss.org/browse/JDG-3144 - Performance Regression for Library Dist Reads 100 threads with RHEL7.5

Metric/Item	JDG 7.2 (/exec/552258)	JDG 7.3 (/exec/914506)	JDG 8.0 (/exec/934272)	Infinispan Master (/exec/940520)
BasicOperations.Get.ActualThroughput	108760.75	-5.58 %	-5.53 %	-5.94 %
BasicOperations.Get.ResponseTimeMean	7336146.15	+5.86 %	+5.74 %	+6.25 %

Non-TX writes 10 threads

Metric/Item	JDG 7.2 (/exec/552325)	JDG 7.3 (/exec/914519)	JDG 8.0 (/exec/934279)	Infinispan Master (/exec/940523)
BasicOperations.Put.ActualThroughput	20450.27	+7.25 %	+6.00 %	+6.34 %
BasicOperations.Put.ResponseTimeMean	3792041.03	-7.07 %	-6.04 %	-6.20 %

Non-TX writes 100 threads

Metric/Item	JDG 7.2 (/exec/552326)	JDG 7.3 (/exec/914520)	JDG 8.0 (/exec/934280)	Infinispan Master (/exec/940524)
BasicOperations.Put.ActualThroughput	25774.50	+4.24 %	+4.20 %	+4.33 %
BasicOperations.Put.ResponseTimeMean	30880304.68	-4.33 %	-4.16 %	-4.24 %

TX reads 10 threads

Metric/Item	JDG 7.2 (/exec/552259)	JDG 7.3 (/exec/914507)	JDG 8.0 (/exec/934273)	Infinispan Master (/exec/940521)
Transactional.Duration.ActualThroughput	76607.73	+2.54 %	+0.94 %	+3.67 %
Transactional.Duration.ResponseTimeMean	1034116.82	-2.54 %	-0.94 %	-3.68 %

TX reads 100 threads

Metric/Item	JDG 7.2 (/exec/552260)	JDG 7.3 (/exec/914508)	JDG 8.0 (/exec/934274)	Infinispan Master (/exec/940522)
Transactional.Duration.ActualThroughput	107735.23	-3.43 %	-2.23 %	-4.29 %
Transactional.Duration.ResponseTimeMean	7404855.23	+3.45 %	+2.16 %	+4.36 %

TX writes 10 threads

Metric/Item	JDG 7.2 (/exec/552327)	JDG 7.3 (/exec/914521)	JDG 8.0 (/exec/934281)	Infinispan Master (/exec/940525)
Transactional.Duration.ActualThroughput	15543.59	+1.78 %	+2.23 %	+2.50 %
Transactional.Duration.ResponseTimeMean	4992717.67	-1.44 %	-2.11 %	-2.22 %

TX writes 100 threads

Metric/Item	JDG 7.2 (/exec/552328)	JDG 7.3 (/exec/914522)	JDG 8.0 (/exec/934282)	Infinispan Master (/exec/940526)
Transactional.Duration.ActualThroughput	19831.00	-2.59 %	-2.79 %	-2.86 %
Transactional.Duration.ResponseTimeMean	40060496.54	+2.87 %	+3.00 %	+3.15 %

Library replicated

Non-TX reads 10 threads

https://issues.redhat.com/browse/ISPN-11065 - Library replicated reads performance degradation

Metric/Item	JDG 7.2 (/exec/552400)	JDG 7.3 (/exec/914525)	JDG 8.0 (/exec/934286)	Infinispan Master (/exec/940527)
BasicOperations.Get.ActualThroughput	29447198.75	+14.83 %	-62.15 %	+7.32 %
BasicOperations.Get.ResponseTimeMean	1227.82	-36.59 %	+381.66 %	-14.73 %

Non-TX reads 100 threads

https://issues.redhat.com/browse/ISPN-11065 - Library replicated reads performance degradation

Metric/Item	JDG 7.2 (/exec/552401)	JDG 7.3 (/exec/914526)	JDG 8.0 (/exec/934287)	Infinispan Master (/exec/940528)
BasicOperations.Get.ActualThroughput	30367615.62	+13.10 %	-63.66 %	+12.19 %
BasicOperations.Get.ResponseTimeMean	9849.44	-43.90 %	+489.80 %	-31.40 %

Non-TX writes 10 threads

Metric/Item	JDG 7.2 (/exec/552475)	JDG 7.3 (/exec/914529)	JDG 8.0 (/exec/934294)	Infinispan Master (/exec/940531)
BasicOperations.Put.ActualThroughput	5708.02	+12.53 %	+11.14 %	+12.94 %
BasicOperations.Put.ResponseTimeMean	13877615.18	-11.45 %	-10.36 %	-11.62 %

Non-TX writes 100 threads

Metric/Item	JDG 7.2 (/exec/552476)	JDG 7.3 (/exec/914530)	JDG 8.0 (/exec/934295)	Infinispan Master (/exec/940532)
BasicOperations.Put.ActualThroughput	5473.44	+14.34 %	+16.78 %	+15.26 %
BasicOperations.Put.ResponseTimeMean	145338097.21	-12.42 %	-14.31 %	-13.14 %

TX reads 10 threads

https://issues.redhat.com/browse/ISPN-11065 - Library replicated reads performance degradation

Metric/Item	JDG 7.2 (/exec/552402)	JDG 7.3 (/exec/914527)	JDG 8.0 (/exec/934288)	Infinispan Master (/exec/940529)
Transactional.Duration.ActualThroughput	3068162.32	-3.94 %	-11.52 %	-2.45 %
Transactional.Duration.ResponseTimeMean	23101.40	+3.63 %	+13.37 %	+1.85 %

TX reads 100 threads

https://issues.redhat.com/browse/ISPN-11065 - Library replicated reads performance degradation

Metric/Item	JDG 7.2 (/exec/552403)	JDG 7.3 (/exec/914528)	JDG 8.0 (/exec/934289)	Infinispan Master (/exec/940530)
Transactional.Duration.ActualThroughput	3009897.05	-4.15 %	-11.28 %	-1.79 %
Transactional.Duration.ResponseTimeMean	249941.38	+4.18 %	+13.08 %	+1.96 %

TX writes 10 threads

Metric/Item	JDG 7.2 (/exec/552477)	JDG 7.3 (/exec/914531)	JDG 8.0 (/exec/934296)	Infinispan Master (/exec/940533)
Transactional.Duration.ActualThroughput	5000.20	+6.34 %	+4.91 %	+5.60 %
Transactional.Duration.ResponseTimeMean	15854876.39	-6.13 %	-4.80 %	-5.41 %

TX writes 100 threads

Metric/Item	JDG 7.2 (/exec/552478)	JDG 7.3 (/exec/914532)	JDG 8.0 (/exec/934297)	Infinispan Master (/exec/940534)
Transactional.Duration.ActualThroughput	5572.26	+0.76 %	+1.97 %	-0.22 %
Transactional.Duration.ResponseTimeMean	143025064.22	-1.10 %	-2.01 %	+0.05 %

Client/server

HotRod dist reads 10 threads

Our base is jdg723cr2, the regression was introduced in jdg732cr1

JDG 8.0 is missing or wrong because of JDG-3373

Metric/Item	JDG 7.2 (/exec/552622)	JDG 7.3 (/exec/915050)	JDG 8.0 (/exec/934321)	Infinispan Master (/exec/940429)
BasicOperations.Get.ActualThroughput	81128.22	-6.78 %	-7.08 %	-13.49 %
BasicOperations.Get.ResponseTimeMean	980743.93	+7.26 %	+7.66 %	+15.67 %

HotRod dist reads 100 threads

JDG 8.0 is missing or wrong because of JDG-3373

Metric/Item	JDG 7.2 (/exec/552530)	JDG 7.3 (/exec/914976)	Infinispan Master (/exec/940424)
BasicOperations.Get.ActualThroughput	89625.82	+1.28 %	-9.16 %
BasicOperations.Get.ResponseTimeMean	8891199.95	-1.38 %	+10.13 %

HotRod dist writes 10 threads

Metric/Item	JDG 7.2 (/exec/552575)	JDG 7.3 (/exec/915025)	JDG 8.0 (/exec/934309)	Infinispan Master (/exec/937676)
BasicOperations.Put.ActualThroughput	18527.67	+16.05 %	+7.54 %	+16.61 %
BasicOperations.Put.ResponseTimeMean	4188396.97	-13.87 %	-7.43 %	-14.61 %

HotRod dist writes 100 threads

Metric/Item	JDG 7.2 (/exec/552576)	JDG 7.3 (/exec/915026)	JDG 8.0 (/exec/934310)	Infinispan Master (/exec/937677)
BasicOperations.Put.ActualThroughput	23308.18	+10.81 %	-0.40 %	+13.17 %
BasicOperations.Put.ResponseTimeMean	34092381.39	-9.77 %	+0.37 %	-11.72 %

HotRod repl reads 10 threads

Our base is jdg723cr2, the regression was introduced in jdg732cr1

JDG 8.0 is missing or wrong because of JDG-3373

Metric/Item	JDG 7.2 (/exec/552622)	JDG 7.3 (/exec/915050)	JDG 8.0 (/exec/934321)	Infinispan Master (/exec/940429)
BasicOperations.Get.ActualThroughput	81128.22	-6.78 %	-7.08 %	-13.49 %
BasicOperations.Get.ResponseTimeMean	980743.93	+7.26 %	+7.66 %	+15.67 %

HotRod repl reads 100 threads

JDG 8.0 is missing or wrong because of JDG-3373

Metric/Item	JDG 7.2 (/exec/552623)	JDG 7.3 (/exec/915051)	JDG 8.0 (/exec/934322)	Infinispan Master (/exec/940430)
BasicOperations.Get.ActualThroughput	89973.86	+2.35 %	+2.09 %	-8.87 %
BasicOperations.Get.ResponseTimeMean	8857571.28	-2.30 %	-2.14 %	+9.74 %

HotRod repl writes 10 threads

Metric/Item	JDG 7.2 (/exec/552657)	JDG 7.3 (/exec/915079)	JDG 8.0 (/exec/934327)	Infinispan Master (/exec/940433)
BasicOperations.Put.ActualThroughput	4716.68	+31.96 %	+43.92 %	+36.78 %
BasicOperations.Put.ResponseTimeMean	16804713.39	-24.35 %	-30.77 %	-27.22 %

HotRod repl writes 100 threads

Metric/Item	JDG 7.2 (/exec/552658)	JDG 7.3 (/exec/915080)	JDG 8.0 (/exec/934328)	Infinispan Master (/exec/940434)
BasicOperations.Put.ActualThroughput	5240.61	+20.39 %	+21.63 %	+21.25 %
BasicOperations.Put.ResponseTimeMean	151941160.15	-16.97 %	-17.79 %	-17.55 %

Memcached dist reads 10 threads

Metric/Item	JDG 7.2 (/exec/552687)	JDG 7.3 (/exec/915097)	JDG 8.0 (/exec/934331)	Infinispan Master (/exec/940437)
BasicOperations.Get.ActualThroughput	34992.48	+3.33 %	+2.93 %	+1.69 %
BasicOperations.Get.ResponseTimeMean	2279596.08	-3.27 %	-2.87 %	-1.72 %

Memcached dist reads 100 threads

Metric/Item	JDG 7.2 (/exec/552688)	JDG 7.3 (/exec/915098)	JDG 8.0 (/exec/934332)	Infinispan Master (/exec/940438)
BasicOperations.Get.ActualThroughput	49789.75	+2.14 %	+2.16 %	+2.68 %
BasicOperations.Get.ResponseTimeMean	16022451.27	-2.11 %	-2.17 %	-2.51 %

Memcached dist writes 10 threads

Metric/Item	JDG 7.2 (/exec/552719)	JDG 7.3 (/exec/915102)	JDG 8.0 (/exec/934339)	Infinispan Master (/exec/940439)
BasicOperations.Put.ActualThroughput	10514.20	+4.57 %	+3.63 %	+5.92 %
BasicOperations.Put.ResponseTimeMean	7475530.70	-4.53 %	-3.62 %	-5.73 %

Memcached dist writes 100 threads

Metric/Item	JDG 7.2 (/exec/552720)	JDG 7.3 (/exec/915103)	JDG 8.0 (/exec/934340)	Infinispan Master (/exec/940440)
BasicOperations.Put.ActualThroughput	10958.63	+3.14 %	+4.22 %	+3.31 %
BasicOperations.Put.ResponseTimeMean	72726433.87	-3.07 %	-4.04 %	-3.22 %

Rest dist reads 10 threads

Metric/Item	JDG 7.2 (/exec/552734)	JDG 7.3 (/exec/915188)	JDG 8.0 (/exec/934347)	Infinispan Master (/exec/940441)
BasicOperations.Get.ActualThroughput	27336.92	+4.57 %	+10.38 %	+10.50 %
BasicOperations.Get.ResponseTimeMean	2918688.01	-4.42 %	-9.47 %	-9.57 %

Rest dist reads 100 threads

Metric/Item	JDG 7.2 (/exec/552735)	JDG 7.3 (/exec/915189)	JDG 8.0 (/exec/934348)	Infinispan Master (/exec/940442)
BasicOperations.Get.ActualThroughput	42048.41	+5.81 %	+26.09 %	+26.11 %
BasicOperations.Get.ResponseTimeMean	18722868.71	-4.30 %	-19.84 %	-19.87 %

Rest dist writes 10 threads

Metric/Item	JDG 7.2 (/exec/552770)	JDG 7.3 (/exec/915107)	JDG 8.0 (/exec/934355)	Infinispan Master (/exec/940443)
BasicOperations.Put.ActualThroughput	8371.52	+16.21 %	+41.26 %	+40.94 %
BasicOperations.Put.ResponseTimeMean	9380489.97	-13.85 %	-29.46 %	-29.25 %

Rest dist writes 100 threads

Metric/Item	JDG 7.2 (/exec/552771)	JDG 7.3 (/exec/915108)	JDG 8.0 (/exec/934356)	Infinispan Master (/exec/940444)
BasicOperations.Put.ActualThroughput	9034.01	+17.68 %	+78.15 %	+79.58 %
BasicOperations.Put.ResponseTimeMean	87935275.02	-14.91 %	-43.91 %	-44.48 %

TX HotRod dist reads 10 threads

The values are random because the transactions are sent to a random server. If the message reach the primary owner the value reported will be good otherwise bad. Basically each day you will see a new value that could be good or bad

Metric/Item	JDG 7.3 (/exec/930682)	JDG 8.0 (/exec/934300)	Infinispan Master (/exec/940425)
Transactional.Duration.ActualThroughput	4714.89	+161.59 %	+129.64 %
Transactional.Duration.ResponseTimeMean	16932933.71	-72.72 %	-68.63 %

TX HotRod dist reads 30 threads

The values are random because the transactions are sent to a random server. If the message reach the primary owner the value reported will be good otherwise bad. Basically each day you will see a new value that could be good or bad

Metric/Item	JDG 7.3 (/exec/930683)	JDG 8.0 (/exec/934301)	Infinispan Master (/exec/940426)
Transactional.Duration.ActualThroughput	7815.93	+81.50 %	+69.48 %
Transactional.Duration.ResponseTimeMean	30658723.54	-53.05 %	-52.32 %

TX HotRod repl reads 10 threads

The values are random because the transactions are sent to a random server. If the message reach the primary owner the value reported will be good otherwise bad. Basically each day you will see a new value that could be good or bad

Metric/Item	JDG 8.0 (/exec/934325)	Infinispan Master (/exec/940431)
Transactional.Duration.ActualThroughput	14488.80	-24.23 %
Transactional.Duration.ResponseTimeMean	5501929.06	+0.25 %

TX HotRod repl reads 30 threads

The values are random because the transactions are sent to a random server. If the message reach the primary owner the value reported will be good otherwise bad. Basically each day you will see a new value that could be good or bad

Metric/Item	JDG 7.3 (/exec/930687)	JDG 8.0 (/exec/934326)	Infinispan Master (/exec/940432)
Transactional.Duration.ActualThroughput	7530.72	+117.11 %	+70.18 %
Transactional.Duration.ResponseTimeMean	31816795.04	-53.97 %	-53.79 %

TX HotRod dist writes 10 threads

The values are random because the transactions are sent to a random server. If the message reach the primary owner the value reported will be good otherwise bad. Basically each day you will see a new value that could be good or bad

Metric/Item	JDG 7.3 (/exec/930684)	JDG 8.0 (/exec/934317)	Infinispan Master (/exec/940427)
Transactional.Duration.ActualThroughput	1793.38	+19.21 %	-77.48 %
Transactional.Duration.ResponseTimeMean	44413120.24	-16.08 %	+270.31 %

TX HotRod dist writes 30 threads

The values are random because the transactions are sent to a random server. If the message reach the primary owner the value reported will be good otherwise bad. Basically each day you will see a new value that could be good or bad

Metric/Item	JDG 7.3 (/exec/930685)	JDG 8.0 (/exec/934318)	Infinispan Master (/exec/940428)
Transactional.Duration.ActualThroughput	2179.85	+16.88 %	-63.70 %
Transactional.Duration.ResponseTimeMean	109748594.43	-14.40 %	+149.73 %

TX HotRod repl writes 10 threads

The values are random because the transactions are sent to a random server. If the message reach the primary owner the value reported will be good otherwise bad. Basically each day you will see a new value that could be good or bad

Metric/Item	JDG 7.3 (/exec/930688)	JDG 8.0 (/exec/934329)	Infinispan Master (/exec/940435)
Transactional.Duration.ActualThroughput	1355.62	-49.72 %	-71.82 %
Transactional.Duration.ResponseTimeMean	58835000.66	+82.48 %	+223.53 %

TX HotRod repl writes 30 threads

The values are random because the transactions are sent to a random server. If the message reach the primary owner the value reported will be good otherwise bad. Basically each day you will see a new value that could be good or bad

Metric/Item	JDG 7.3 (/exec/930689)	JDG 8.0 (/exec/934330)	Infinispan Master (/exec/940436)
Transactional.Duration.ActualThroughput	1632.92	-44.72 %	-65.36 %
Transactional.Duration.ResponseTimeMean	146484832.58	+46.51 %	+163.07 %