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.ER1

Library distributed

Non-TX reads 10 threads

Metric/Item	JDG 7.2 (/exec/552257)	JDG 7.3 (/exec/914505)	JDG 8.0 (/exec/926948)	Infinispan Master (/exec/933870)
BasicOperations.Get.ActualThroughput	81669.58	+2.35 %	+2.11 %	+2.54 %
BasicOperations.Get.ResponseTimeMean	974928.51	-2.38 %	-2.10 %	-2.52 %

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/926949)	Infinispan Master (/exec/933871)
BasicOperations.Get.ActualThroughput	108760.75	-5.58 %	-5.95 %	-5.86 %
BasicOperations.Get.ResponseTimeMean	7336146.15	+5.86 %	+6.15 %	+6.12 %

Non-TX writes 10 threads

Metric/Item	JDG 7.2 (/exec/552325)	JDG 7.3 (/exec/914519)	JDG 8.0 (/exec/926952)	Infinispan Master (/exec/933887)
BasicOperations.Put.ActualThroughput	20450.27	+7.25 %	+6.02 %	+5.72 %
BasicOperations.Put.ResponseTimeMean	3792041.03	-7.07 %	-5.79 %	-6.10 %

Non-TX writes 100 threads

Metric/Item	JDG 7.2 (/exec/552326)	JDG 7.3 (/exec/914520)	JDG 8.0 (/exec/926953)	Infinispan Master (/exec/933888)
BasicOperations.Put.ActualThroughput	25774.50	+4.24 %	+3.87 %	+3.20 %
BasicOperations.Put.ResponseTimeMean	30880304.68	-4.33 %	-3.82 %	-3.37 %

TX reads 10 threads

Metric/Item	JDG 7.2 (/exec/552259)	JDG 7.3 (/exec/914507)	JDG 8.0 (/exec/926950)	Infinispan Master (/exec/933872)
Transactional.Duration.ActualThroughput	76607.73	+2.54 %	+1.77 %	+1.80 %
Transactional.Duration.ResponseTimeMean	1034116.82	-2.54 %	-1.81 %	-1.84 %

TX reads 100 threads

Metric/Item	JDG 7.2 (/exec/552260)	JDG 7.3 (/exec/914508)	JDG 8.0 (/exec/926951)	Infinispan Master (/exec/933873)
Transactional.Duration.ActualThroughput	107735.23	-3.43 %	-3.49 %	-3.09 %
Transactional.Duration.ResponseTimeMean	7404855.23	+3.45 %	+3.49 %	+3.00 %

TX writes 10 threads

Metric/Item	JDG 7.2 (/exec/552327)	JDG 7.3 (/exec/914521)	JDG 8.0 (/exec/926954)	Infinispan Master (/exec/933889)
Transactional.Duration.ActualThroughput	15543.59	+1.78 %	+2.98 %	+1.80 %
Transactional.Duration.ResponseTimeMean	4992717.67	-1.44 %	-2.77 %	-1.39 %

TX writes 100 threads

Metric/Item	JDG 7.2 (/exec/552328)	JDG 7.3 (/exec/914522)	JDG 8.0 (/exec/926955)	Infinispan Master (/exec/933890)
Transactional.Duration.ActualThroughput	19831.00	-2.59 %	-2.50 %	-3.74 %
Transactional.Duration.ResponseTimeMean	40060496.54	+2.87 %	+2.72 %	+4.02 %

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/926956)	Infinispan Master (/exec/933906)
BasicOperations.Get.ActualThroughput	29447198.75	+14.83 %	+0.61 %	-62.65 %
BasicOperations.Get.ResponseTimeMean	1227.82	-36.59 %	+4.75 %	+390.70 %

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/926957)	Infinispan Master (/exec/933907)
BasicOperations.Get.ActualThroughput	30367615.62	+13.10 %	+4.21 %	-64.65 %
BasicOperations.Get.ResponseTimeMean	9849.44	-43.90 %	-4.47 %	+508.31 %

Non-TX writes 10 threads

Metric/Item	JDG 7.2 (/exec/552475)	JDG 7.3 (/exec/914529)	JDG 8.0 (/exec/926967)	Infinispan Master (/exec/933929)
BasicOperations.Put.ActualThroughput	5708.02	+12.53 %	+13.35 %	+12.75 %
BasicOperations.Put.ResponseTimeMean	13877615.18	-11.45 %	-12.07 %	-11.52 %

Non-TX writes 100 threads

Metric/Item	JDG 7.2 (/exec/552476)	JDG 7.3 (/exec/914530)	JDG 8.0 (/exec/926968)	Infinispan Master (/exec/933930)
BasicOperations.Put.ActualThroughput	5473.44	+14.34 %	+16.65 %	+15.90 %
BasicOperations.Put.ResponseTimeMean	145338097.21	-12.42 %	-14.28 %	-13.64 %

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/926958)	Infinispan Master (/exec/933908)
Transactional.Duration.ActualThroughput	3068162.32	-3.94 %	-2.45 %	-13.56 %
Transactional.Duration.ResponseTimeMean	23101.40	+3.63 %	+1.76 %	+16.42 %

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/926959)	Infinispan Master (/exec/933909)
Transactional.Duration.ActualThroughput	3009897.05	-4.15 %	-2.08 %	-12.09 %
Transactional.Duration.ResponseTimeMean	249941.38	+4.18 %	+1.61 %	+14.10 %

TX writes 10 threads

Metric/Item	JDG 7.2 (/exec/552477)	JDG 7.3 (/exec/914531)	JDG 8.0 (/exec/926969)	Infinispan Master (/exec/933931)
Transactional.Duration.ActualThroughput	5000.20	+6.34 %	+3.75 %	+4.41 %
Transactional.Duration.ResponseTimeMean	15854876.39	-6.13 %	-3.90 %	-4.29 %

TX writes 100 threads

Metric/Item	JDG 7.2 (/exec/552478)	JDG 7.3 (/exec/914532)	JDG 8.0 (/exec/926970)	Infinispan Master (/exec/933932)
Transactional.Duration.ActualThroughput	5572.26	+0.76 %	+2.84 %	+0.34 %
Transactional.Duration.ResponseTimeMean	143025064.22	-1.10 %	-2.92 %	-0.46 %

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/927332)	Infinispan Master (/exec/931654)
BasicOperations.Get.ActualThroughput	81128.22	-6.78 %	-6.05 %	-6.66 %
BasicOperations.Get.ResponseTimeMean	980743.93	+7.26 %	+6.36 %	+7.13 %

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/933944)
BasicOperations.Get.ActualThroughput	89625.82	+1.28 %	-9.31 %
BasicOperations.Get.ResponseTimeMean	8891199.95	-1.38 %	+10.27 %

HotRod dist writes 10 threads

Metric/Item	JDG 7.2 (/exec/552575)	JDG 7.3 (/exec/915025)	JDG 8.0 (/exec/927316)	Infinispan Master (/exec/933971)
BasicOperations.Put.ActualThroughput	18527.67	+16.05 %	-6.04 %	+8.48 %
BasicOperations.Put.ResponseTimeMean	4188396.97	-13.87 %	+6.70 %	-7.66 %

HotRod dist writes 100 threads

Metric/Item	JDG 7.2 (/exec/552576)	JDG 7.3 (/exec/915026)	JDG 8.0 (/exec/927317)	Infinispan Master (/exec/933972)
BasicOperations.Put.ActualThroughput	23308.18	+10.81 %	-15.92 %	-1.51 %
BasicOperations.Put.ResponseTimeMean	34092381.39	-9.77 %	+19.04 %	+1.58 %

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/927332)	Infinispan Master (/exec/931654)
BasicOperations.Get.ActualThroughput	81128.22	-6.78 %	-6.05 %	-6.66 %
BasicOperations.Get.ResponseTimeMean	980743.93	+7.26 %	+6.36 %	+7.13 %

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/927333)	Infinispan Master (/exec/931655)
BasicOperations.Get.ActualThroughput	89973.86	+2.35 %	+2.21 %	+2.14 %
BasicOperations.Get.ResponseTimeMean	8857571.28	-2.30 %	-2.23 %	-2.13 %

HotRod repl writes 10 threads

Metric/Item	JDG 7.2 (/exec/552657)	JDG 7.3 (/exec/915079)	JDG 8.0 (/exec/927322)	Infinispan Master (/exec/934012)
BasicOperations.Put.ActualThroughput	4716.68	+31.96 %	+32.50 %	+48.07 %
BasicOperations.Put.ResponseTimeMean	16804713.39	-24.35 %	-24.69 %	-32.71 %

HotRod repl writes 100 threads

Metric/Item	JDG 7.2 (/exec/552658)	JDG 7.3 (/exec/915080)	JDG 8.0 (/exec/927323)	Infinispan Master (/exec/934013)
BasicOperations.Put.ActualThroughput	5240.61	+20.39 %	+21.96 %	+20.92 %
BasicOperations.Put.ResponseTimeMean	151941160.15	-16.97 %	-18.06 %	-17.35 %

Memcached dist reads 10 threads

Metric/Item	JDG 7.2 (/exec/552687)	JDG 7.3 (/exec/915097)	JDG 8.0 (/exec/927324)	Infinispan Master (/exec/934033)
BasicOperations.Get.ActualThroughput	34992.48	+3.33 %	+3.28 %	+2.10 %
BasicOperations.Get.ResponseTimeMean	2279596.08	-3.27 %	-3.19 %	-2.09 %

Memcached dist reads 100 threads

Metric/Item	JDG 7.2 (/exec/552688)	JDG 7.3 (/exec/915098)	JDG 8.0 (/exec/927325)	Infinispan Master (/exec/934034)
BasicOperations.Get.ActualThroughput	49789.75	+2.14 %	+2.32 %	+2.39 %
BasicOperations.Get.ResponseTimeMean	16022451.27	-2.11 %	-2.30 %	-2.39 %

Memcached dist writes 10 threads

Metric/Item	JDG 7.2 (/exec/552719)	JDG 7.3 (/exec/915102)	JDG 8.0 (/exec/927326)	Infinispan Master (/exec/934044)
BasicOperations.Put.ActualThroughput	10514.20	+4.57 %	+6.25 %	+7.00 %
BasicOperations.Put.ResponseTimeMean	7475530.70	-4.53 %	-6.01 %	-6.70 %

Memcached dist writes 100 threads

Metric/Item	JDG 7.2 (/exec/552720)	JDG 7.3 (/exec/915103)	JDG 8.0 (/exec/927327)	Infinispan Master (/exec/934045)
BasicOperations.Put.ActualThroughput	10958.63	+3.14 %	+2.57 %	+2.66 %
BasicOperations.Put.ResponseTimeMean	72726433.87	-3.07 %	-2.62 %	-2.72 %

Rest dist reads 10 threads

Metric/Item	JDG 7.2 (/exec/552734)	JDG 7.3 (/exec/915188)	JDG 8.0 (/exec/927328)	Infinispan Master (/exec/934055)
BasicOperations.Get.ActualThroughput	27336.92	+4.57 %	+12.00 %	+10.73 %
BasicOperations.Get.ResponseTimeMean	2918688.01	-4.42 %	-10.74 %	-9.69 %

Rest dist reads 100 threads

Metric/Item	JDG 7.2 (/exec/552735)	JDG 7.3 (/exec/915189)	JDG 8.0 (/exec/927329)	Infinispan Master (/exec/934056)
BasicOperations.Get.ActualThroughput	42048.41	+5.81 %	+26.24 %	+25.89 %
BasicOperations.Get.ResponseTimeMean	18722868.71	-4.30 %	-19.99 %	-19.87 %

Rest dist writes 10 threads

Metric/Item	JDG 7.2 (/exec/552770)	JDG 7.3 (/exec/915107)	JDG 8.0 (/exec/927330)	Infinispan Master (/exec/934067)
BasicOperations.Put.ActualThroughput	8371.52	+16.21 %	+43.11 %	+42.55 %
BasicOperations.Put.ResponseTimeMean	9380489.97	-13.85 %	-30.39 %	-30.07 %

Rest dist writes 100 threads

Metric/Item	JDG 7.2 (/exec/552771)	JDG 7.3 (/exec/915108)	JDG 8.0 (/exec/927331)	Infinispan Master (/exec/934068)
BasicOperations.Put.ActualThroughput	9034.01	+17.68 %	+78.85 %	+78.42 %
BasicOperations.Put.ResponseTimeMean	87935275.02	-14.91 %	-44.11 %	-43.97 %

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/930589)	Infinispan Master (/exec/933960)
Transactional.Duration.ActualThroughput	-64.61 %	13323.39	-5.53 %
Transactional.Duration.ResponseTimeMean	+230.51 %	5123341.82	-2.28 %

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/930590)	Infinispan Master (/exec/933961)
Transactional.Duration.ActualThroughput	-38.54 %	12717.98	+6.67 %
Transactional.Duration.ResponseTimeMean	+104.63 %	14982869.19	-4.90 %

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/930593)	Infinispan Master (/exec/934001)
Transactional.Duration.ActualThroughput	12801.27	-26.88 %
Transactional.Duration.ResponseTimeMean	5047540.83	+40.06 %

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/930594)	Infinispan Master (/exec/934002)
Transactional.Duration.ActualThroughput	-45.23 %	13748.90	-11.84 %
Transactional.Duration.ResponseTimeMean	+111.84 %	15019371.62	-5.25 %

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/930591)	Infinispan Master (/exec/933979)
Transactional.Duration.ActualThroughput	-16.32 %	2143.22	+3.53 %
Transactional.Duration.ResponseTimeMean	+19.51 %	37163651.85	-3.43 %

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/930592)	Infinispan Master (/exec/933980)
Transactional.Duration.ActualThroughput	-16.64 %	2614.85	+0.99 %
Transactional.Duration.ResponseTimeMean	+19.89 %	91541914.89	-0.99 %

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/930595)	Infinispan Master (/exec/934022)
Transactional.Duration.ActualThroughput	+109.67 %	646.53	-46.12 %
Transactional.Duration.ResponseTimeMean	-47.98 %	113107036.18	+80.68 %

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/930596)	Infinispan Master (/exec/934023)
Transactional.Duration.ActualThroughput	+64.08 %	995.23	-13.87 %
Transactional.Duration.ResponseTimeMean	-33.10 %	218958002.98	+16.80 %