

Dissertation Testing - JZMQ

JZMQ - EpsilonGC - SingleThread

JZMQ Test 1

Date	18/03/2020
Library	JZMQ
Message Volume	100
Message Byte Size	10000
GC used	EpsilonGC
MultiThreaded	NO
Completed	YES
CPU Producer	16958 adowling 20 0 14.3g 148656 13656 S 86.7 1.9 0:02.61 java 16958 adowling 20 0 14.3g 148656 13656 S 0.3 1.9 0:02.62 java 16958 adowling 20 0 14.3g 300628 14220 S 104.0 3.8 0:05.75 java 16958 adowling 20 0 14.5g 545984 14504 S 175.7 6.8 0:11.04 java
CPU Consumer	15229 adowling 20 0 14.6g 572108 15232 S 37.9 7.1 0:12.32 java 15229 adowling 20 0 14.6g 566216 15232 S 0.7 7.1 0:12.34 java 15229 adowling 20 0 14.6g 566216 15232 S 0.3 7.1 0:12.35 java 15229 adowling 20 0 14.6g 566216 15232 S 0.7 7.1 0:12.37 java

JZMQ Test 2

Date	18/03/2020
Library	JZMQ
Message Volume	100
Message Byte Size	100000
GC used	EpsilonGC
MultiThreaded	NO
Completed	YES
CPU Producer	17144 adowling 20 0 14.2g 80576 12992 S 23.9 1.0 0:00.72 java

	17144 adowling 20 0 14.3g 148592 13620 S 50.2 1.9 0:02.23 java 17144 adowling 20 0 14.3g 162708 13884 S 10.6 2.0 0:02.55 java 17144 adowling 20 0 14.5g 461312 14480 S 185.1 5.8 0:08.14 java 17144 adowling 20 0 14.6g 668620 15388 S 115.0 8.3 0:11.60 java
CPU Consumer	15229 adowling 20 0 14.6g 566216 15232 S 0.3 7.1 0:12.81 java 15229 adowling 20 0 14.6g 566216 15232 S 0.7 7.1 0:12.83 java 15229 adowling 20 0 14.6g 575032 15304 S 8.6 7.2 0:13.09 java 15229 adowling 20 0 14.6g 610588 15400 S 16.3 7.6 0:13.58 java 15229 adowling 20 0 14.6g 610588 15400 S 0.3 7.6 0:13.59 java

JZMQ Test 3

Date	18/03/2020
Library	JZMQ
Message Volume	100
Message Byte Size	1000000
GC used	EpsilonGC
MultiThreaded	NO
Completed	YES
CPU Producer	17258 adowling 20 0 14.3g 146936 13684 S 75.1 1.8 0:02.26 java 17258 adowling 20 0 14.5g 420720 14496 S 169.9 5.3 0:07.39 java 17258 adowling 20 0 14.6g 991.9m 15324 S 133.7 12.7 0:11.40 java
CPU Consumer	15229 adowling 20 0 14.6g 610592 15400 S 0.7 7.6 0:13.81 java 15229 adowling 20 0 14.6g 610592 15400 S 0.3 7.6 0:13.82 java 15229 adowling 20 0 14.6g 610592 15400 S 0.3 7.6 0:13.83 java 15229 adowling 20 0 14.6g 610592 15400 S 0.7 7.6 0:13.85 java 15229 adowling 20 0 14.6g 904780 15408 S 48.5 11.3 0:15.31 java 15229 adowling 20 0 14.6g 991.7m 15420 S 13.2 12.7 0:15.71 java 15229 adowling 20 0 14.6g 991.7m 15420 S 0.3 12.7 0:15.72 java

JZMQ Test 4

Date	16/03/2020
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Library	JZMQ
Message Volume	1000
Message Byte Size	10000
GC used	EpsilonGC
MultiThreaded	NO
Completed	YES
CPU Producer	17351 adowling 20 0 14.3g 128016 13320 S 56.8 1.6 0:01.71 java 17351 adowling 20 0 14.3g 163556 13548 S 24.3 2.0 0:02.44 java 17351 adowling 20 0 14.3g 233692 13904 S 43.0 2.9 0:03.74 java 17351 adowling 20 0 14.5g 530104 14472 S 182.1 6.6 0:09.22 java 17351 adowling 20 0 14.6g 592644 15340 S 76.7 7.4 0:11.52 java 17351 adowling 20 0 14.6g 619144 15356 S 41.2 7.7 0:12.76 java 17351 adowling 20 0 14.6g 650532 15368 S 39.5 8.1 0:13.95 java 17351 adowling 20 0 14.6g 673828 15368 S 21.3 8.4 0:14.59 java
CPU Consumer	15229 adowling 20 0 14.6g 991.7m 15420 S 0.3 12.7 0:15.88 java 15229 adowling 20 0 14.6g 991.7m 15420 S 0.3 12.7 0:15.89 java 15229 adowling 20 0 14.6g 991.7m 15420 S 0.7 12.7 0:15.91 java 15229 adowling 20 0 14.6g 991.7m 15420 S 0.3 12.7 0:15.92 java 15229 adowling 20 0 14.6g 1.0g 15420 S 30.9 12.8 0:16.85 java 15229 adowling 20 0 14.6g 1.0g 15420 S 31.3 13.0 0:17.79 java 15229 adowling 20 0 14.6g 1.0g 15420 S 18.9 13.1 0:18.36 java 15229 adowling 20 0 14.6g 1.0g 15428 S 19.2 13.3 0:18.94 java 15229 adowling 20 0 14.6g 1.0g 15428 S 15.7 13.4 0:19.41 java 15229 adowling 20 0 14.6g 1.0g 15428 S 0.3 13.4 0:19.42 java 15229 adowling 20 0 14.6g 1.0g 15428 S 0.7 13.4 0:19.44 java

JZMQ Test 5

Date	18/03/2020
Library	JZMQ
Message Volume	1000
Message Byte Size	100000
GC used	EpsilonGC
MultiThreaded	NO
Completed	YES
CPU Producer	17465 adowling 20 0 14.3g 132524 13312 S 68.2 1.7 0:02.06 java 17465 adowling 20 0 14.3g 166752 13544 S 23.3 2.1 0:02.76 java 17465 adowling 20 0 14.3g 231324 13964 S 43.9 2.9 0:04.08 java

	17465 adowling 20 0 14.5g 523500 14528 S 176.1 6.5 0:09.38 java 17465 adowling 20 0 14.6g 720040 15340 S 87.4 9.0 0:12.01 java 17465 adowling 20 0 14.6g 899108 15368 S 52.2 11.2 0:13.58 java 17465 adowling 20 0 14.6g 1.0g 15380 S 46.8 13.5 0:14.99 java 17465 adowling 20 0 14.6g 1.2g 15380 S 31.6 15.7 0:15.94 java 17465 adowling 20 0 14.6g 1.4g 15388 S 32.0 18.1 0:16.90 java
CPU Consumer	15229 adowling 20 0 14.6g 1.0g 15428 S 0.3 13.4 0:19.64 java 15229 adowling 20 0 14.6g 1.0g 15428 S 0.3 13.4 0:19.65 java 15229 adowling 20 0 14.6g 1.0g 15428 S 0.7 13.4 0:19.67 java 15229 adowling 20 0 14.6g 1.0g 15428 S 0.3 13.4 0:19.68 java 15229 adowling 20 0 14.6g 1.1g 15428 S 20.9 14.1 0:20.31 java 15229 adowling 20 0 14.6g 1.2g 15428 S 29.9 15.2 0:21.21 java 15229 adowling 20 0 14.6g 1.2g 15428 S 27.2 16.3 0:22.03 java 15229 adowling 20 0 14.6g 1.3g 15428 S 19.9 17.4 0:22.63 java 15229 adowling 20 0 14.6g 1.4g 15428 S 19.6 18.5 0:23.22 java 15229 adowling 20 0 14.6g 1.4g 15428 S 2.0 18.6 0:23.28 java 15229 adowling 20 0 14.6g 1.4g 15428 S 0.7 18.6 0:23.30 java 15229 adowling 20 0 14.6g 1.4g 15428 S 0.3 18.6 0:23.31 java

JZMQ Test 6

Date	18/03/2020
Library	JZMQ
Message Volume	1000
Message Byte Size	1000000
GC used	EpsilonGC
MultiThreaded	NO
Completed	YES
Error on Producer	2020-03-18 14:23:52.745 INFO 17565 --- [main] c.m.spring.producer.jzmq.JZMQPublisher : Sending JZMQ Message 960 Java HotSpot(TM) 64-Bit Server VM warning: INFO: os::commit_memory(0x000000006c8000000, 134217728, 0) failed; error='Not enough space' (errno=12)
CPU Producer	17565 adowling 20 0 14.3g 149800 13664 S 71.1 1.9 0:02.14 java 17565 adowling 20 0 14.3g 360892 14268 S 136.1 4.5 0:06.25 java 17565 adowling 20 0 14.6g 845252 15312 S 149.7 10.6 0:10.74 java 17565 adowling 20 0 14.6g 1.7g 15356 S 68.8 22.7 0:12.81 java 17565 adowling 20 0 14.6g 2.6g 15384 S 80.4 34.3 0:15.23 java 17565 adowling 20 0 14.6g 3.6g 15384 S 68.8 46.5 0:17.30 java 17565 adowling 20 0 14.6g 4.4g 15396 S 76.7 58.1 0:19.61 java 17565 adowling 20 0 14.6g 5.3g 15396 S 64.8 69.5 0:21.56 java 17565 adowling 20 0 14.6g 6.2g 15396 S 64.1 81.5 0:23.49 java 17565 adowling 20 0 14.6g 7.0g 15396 S 73.1 91.3 0:25.69 java

CPU Consumer	15229	adowling	20	0	14.6g	1.4g	15428	S	0.3	18.6	0:23.48	java
	15229	adowling	20	0	14.6g	1.4g	15428	S	0.3	18.6	0:23.49	java
	15229	adowling	20	0	14.6g	1.4g	15428	S	1.0	18.6	0:23.52	java
	15229	adowling	20	0	14.6g	1.5g	15428	S	9.9	19.9	0:23.82	java
	15229	adowling	20	0	14.6g	2.0g	15428	S	55.8	26.7	0:25.50	java
	15229	adowling	20	0	14.6g	2.5g	15428	S	46.8	32.8	0:26.91	java
	15229	adowling	20	0	14.6g	3.0g	15428	S	60.0	39.6	0:28.71	java
	15229	adowling	20	0	14.6g	3.5g	15428	S	51.2	45.8	0:30.25	java
	15229	adowling	20	0	14.6g	4.0g	15428	S	46.2	52.0	0:31.64	java
	15229	adowling	20	0	14.6g	4.5g	15428	S	49.2	58.5	0:33.12	java
	15229	adowling	20	0	14.6g	4.9g	15428	S	42.5	64.0	0:34.40	java
	15229	adowling	20	0	14.6g	5.1g	15428	S	19.6	66.6	0:34.99	java
	15229	adowling	20	0	14.6g	5.1g	15428	S	0.3	66.6	0:35.00	java
	15229	adowling	20	0	14.6g	5.1g	15428	S	0.7	66.6	0:35.02	java
	15229	adowling	20	0	14.6g	5.1g	15428	S	0.3	66.6	0:35.03	java
	15229	adowling	20	0	14.6g	5.1g	15428	S	0.7	66.6	0:35.05	java
	15229	adowling	20	0	14.6g	5.1g	15428	S	0.3	66.6	0:35.06	java

JZMQ - EpsilonGC - MultiThread

JZMQ Test 1

Date	18/03/2020
Library	JZMQ
Message Volume	100
Message Byte Size	10000
GC used	EpsilonGC
MultiThreaded	YES
Completed	YES
CPU Producer	17830 adowling 20 0 14.3g 166208 13600 S 90.1 2.1 0:02.72 java 17830 adowling 20 0 14.3g 248620 14020 S 69.1 3.1 0:04.80 java 17830 adowling 20 0 14.5g 519648 14492 S 173.0 6.5 0:09.99 java
CPU Consumer	15275 adowling 20 0 14.6g 549936 15196 S 0.3 6.9 0:10.38 java 15275 adowling 20 0 14.6g 549936 15196 S 0.3 6.9 0:10.39 java 15275 adowling 20 0 14.6g 549936 15196 S 0.3 6.9 0:10.40 java 15275 adowling 20 0 14.6g 549936 15196 S 0.3 6.9 0:10.41 java 15275 adowling 20 0 14.6g 549936 15196 S 0.3 6.9 0:10.42 java 15275 adowling 20 0 14.6g 549936 15196 S 0.7 6.9 0:10.44 java 15275 adowling 20 0 14.6g 565036 15240 S 40.5 7.1 0:11.66 java 15275 adowling 20 0 14.6g 565036 15240 S 0.3 7.1 0:11.67 java

JZMQ Test 2

Date	18/03/2020
Library	JZMQ
Message Volume	100
Message Byte Size	100000
GC used	EpsilonGC
MultiThreaded	YES
Completed	YES
CPU Producer	17930 adowling 20 0 14.3g 135420 13432 S 60.9 1.7 0:01.84 java 17930 adowling 20 0 14.3g 148428 13660 S 7.6 1.9 0:02.07 java 17930 adowling 20 0 14.3g 229988 13992 S 51.0 2.9 0:03.60 java 17930 adowling 20 0 14.5g 533564 14496 S 186.8 6.7 0:09.24 java
CPU Consumer	15275 adowling 20 0 14.6g 565036 15240 S 0.3 7.1 0:11.86 java 15275 adowling 20 0 14.6g 565036 15240 S 0.3 7.1 0:11.87 java 15275 adowling 20 0 14.6g 565036 15240 S 0.3 7.1 0:11.88 java 15275 adowling 20 0 14.6g 565036 15240 S 0.3 7.1 0:11.89 java 15275 adowling 20 0 14.6g 575456 15240 S 7.6 7.2 0:12.12 java 15275 adowling 20 0 14.6g 609396 15408 S 16.3 7.6 0:12.61 java

JZMQ Test 3

Date	18/03/2020
Library	JZMQ
Message Volume	100
Message Byte Size	1000000
GC used	EpsilonGC
MultiThreaded	YES
Completed	YES
CPU Producer	18060 adowling 20 0 14.3g 182332 13580 S 100.7 2.3 0:03.03 java 18060 adowling 20 0 14.3g 323652 14232 S 105.3 4.0 0:06.20 java 18060 adowling 20 0 14.6g 646904 15328 S 169.4 8.1 0:11.30 java
CPU Consumer	15275 adowling 20 0 14.6g 609396 15408 S 0.3 7.6 0:12.95 java

	15275 adowling 20 0 14.6g 609396 15408 S 0.3 7.6 0:12.96 java
	15275 adowling 20 0 14.6g 609396 15408 S 0.3 7.6 0:12.97 java
	15275 adowling 20 0 14.6g 609396 15408 S 0.3 7.6 0:12.98 java
	15275 adowling 20 0 14.6g 609396 15408 S 0.7 7.6 0:13.00 java
	15275 adowling 20 0 14.6g 992.7m 15416 S 62.8 12.7 0:14.89 java
	15275 adowling 20 0 14.6g 988.1m 15416 S 0.3 12.6 0:14.90 java
	15275 adowling 20 0 14.6g 988.1m 15416 S 0.3 12.6 0:14.91 java

JZMQ Test 4

Date	18/03/2020
Library	JZMQ
Message Volume	1000
Message Byte Size	10000
GC used	EpsilonGC
MultiThreaded	YES
Completed	YES
CPU Producer	18174 adowling 20 0 14.3g 156988 13616 S 76.7 2.0 0:02.31 java 18174 adowling 20 0 14.3g 156988 13616 S 0.7 2.0 0:02.33 java 18174 adowling 20 0 14.3g 349884 14248 S 131.1 4.4 0:06.29 java 18174 adowling 20 0 14.6g 571344 15300 S 156.0 7.1 0:10.97 java 18174 adowling 20 0 14.6g 598432 15356 S 42.2 7.5 0:12.24 java 18174 adowling 20 0 14.6g 626648 15380 S 44.2 7.8 0:13.57 java 18174 adowling 20 0 14.6g 650584 15384 S 30.2 8.1 0:14.48 java 18174 adowling 20 0 14.6g 677428 15392 S 22.6 8.5 0:15.16 java
CPU Consumer	15275 adowling 20 0 14.6g 988.1m 15416 S 0.3 12.6 0:15.16 java 15275 adowling 20 0 14.6g 988.1m 15416 S 0.7 12.6 0:15.18 java 15275 adowling 20 0 14.6g 988.1m 15416 S 0.3 12.6 0:15.19 java 15275 adowling 20 0 14.6g 990.1m 15416 S 4.3 12.7 0:15.32 java 15275 adowling 20 0 14.6g 1.0g 15416 S 37.5 12.8 0:16.45 java 15275 adowling 20 0 14.6g 1.0g 15416 S 25.6 13.0 0:17.22 java 15275 adowling 20 0 14.6g 1.0g 15424 S 21.3 13.2 0:17.86 java 15275 adowling 20 0 14.6g 1.0g 15424 S 17.6 13.3 0:18.39 java 15275 adowling 20 0 14.6g 1.0g 15424 S 9.0 13.4 0:18.66 java 15275 adowling 20 0 14.6g 1.0g 15424 S 0.3 13.4 0:18.67 java 15275 adowling 20 0 14.6g 1.0g 15424 S 0.3 13.4 0:18.68 java 15275 adowling 20 0 14.6g 1.0g 15424 S 0.3 13.4 0:18.69 java

JZMQ Test 5

Date	18/03/2020
Library	JZMQ
Message Volume	1000
Message Byte Size	100000
GC used	EpsilonGC
MultiThreaded	YES
Completed	YES
CPU Producer	18286 adowling 20 0 14.3g 162432 13660 S 76.1 2.0 0:02.29 java 18286 adowling 20 0 14.3g 315876 14228 S 109.0 3.9 0:05.57 java 18286 adowling 20 0 14.6g 595652 15292 S 170.0 7.4 0:10.67 java 18286 adowling 20 0 14.6g 772516 15352 S 51.2 9.6 0:12.21 java 18286 adowling 20 0 14.6g 937352 15372 S 49.8 11.7 0:13.71 java 18286 adowling 20 0 14.6g 1.1g 15388 S 42.5 13.9 0:14.99 java 18286 adowling 20 0 14.6g 1.2g 15388 S 33.1 16.0 0:15.99 java 18286 adowling 20 0 14.6g 1.4g 15500 S 49.7 18.2 0:17.48 java
CPU Consumer	15275 adowling 20 0 14.6g 1.0g 15424 S 0.3 13.4 0:18.91 java 15275 adowling 20 0 14.6g 1.0g 15424 S 0.7 13.4 0:18.93 java 15275 adowling 20 0 14.6g 1.0g 15424 S 0.3 13.4 0:18.94 java 15275 adowling 20 0 14.6g 1.0g 15424 S 2.3 13.4 0:19.01 java 15275 adowling 20 0 14.6g 1.1g 15424 S 27.6 14.5 0:19.84 java 15275 adowling 20 0 14.6g 1.2g 15424 S 30.6 15.5 0:20.76 java 15275 adowling 20 0 14.6g 1.3g 15424 S 28.1 16.6 0:21.61 java 15275 adowling 20 0 14.6g 1.3g 15424 S 23.9 17.6 0:22.33 java 15275 adowling 20 0 14.6g 1.4g 15424 S 21.9 18.6 0:22.99 java 15275 adowling 20 0 14.6g 1.4g 15424 S 0.3 18.6 0:23.00 java 15275 adowling 20 0 14.6g 1.4g 15424 S 0.3 18.6 0:23.01 java

JZMQ Test 6

Date	18/03/2020
Library	JZMQ
Message Volume	1000
Message Byte Size	1000000
GC used	EpsilonGC
MultiThreaded	YES

Completed	YES
Error on Producer	2020-03-18 14:37:43.501 INFO 18388 --- [main] c.m.spring.producer.jzmq.JZMQPublisher : Sending JZMQ Message 961 Java HotSpot(TM) 64-Bit Server VM warning: INFO: os::commit_memory(0x000000006c800000, 134217728, 0) failed; error='Not enough space' (errno=12)
CPU Producer	18388 adowling 20 0 14.3g 127760 13452 S 58.8 1.6 0:01.77 java 18388 adowling 20 0 14.3g 147216 13692 S 14.3 1.8 0:02.20 java 18388 adowling 20 0 14.3g 227100 14040 S 42.9 2.8 0:03.50 java 18388 adowling 20 0 14.5g 522660 14524 S 181.4 6.5 0:08.96 java 18388 adowling 20 0 14.6g 1.2g 15352 S 112.0 16.1 0:12.33 java 18388 adowling 20 0 14.6g 2.1g 15376 S 69.4 27.1 0:14.42 java 18388 adowling 20 0 14.6g 3.0g 15384 S 74.8 38.7 0:16.67 java 18388 adowling 20 0 14.6g 3.9g 15404 S 77.0 50.9 0:18.98 java 18388 adowling 20 0 14.6g 4.7g 15416 S 69.4 62.1 0:21.07 java 18388 adowling 20 0 14.6g 5.7g 15416 S 62.8 74.5 0:22.96 java 18388 adowling 20 0 14.6g 6.6g 15416 S 66.8 86.4 0:24.97 java 18388 adowling 20 0 14.4g 7.3g 12948 S 64.8 95.4 0:26.92 java
CPU Consumer	15275 adowling 20 0 14.6g 1.4g 15424 S 0.3 18.6 0:23.17 java 15275 adowling 20 0 14.6g 1.4g 15424 S 0.3 18.6 0:23.18 java 15275 adowling 20 0 14.6g 1.4g 15424 S 0.3 18.6 0:23.19 java 15275 adowling 20 0 14.6g 1.4g 15424 S 0.3 18.6 0:23.20 java 15275 adowling 20 0 14.6g 1.4g 15424 S 0.3 18.6 0:23.21 java 15275 adowling 20 0 14.6g 1.4g 15424 S 0.3 18.6 0:23.22 java 15275 adowling 20 0 14.6g 1.8g 15424 S 38.1 23.5 0:24.37 java 15275 adowling 20 0 14.6g 2.3g 15424 S 46.3 29.5 0:25.76 java 15275 adowling 20 0 14.6g 2.7g 15424 S 60.1 35.9 0:27.57 java 15275 adowling 20 0 14.6g 3.2g 15424 S 54.5 42.5 0:29.21 java 15275 adowling 20 0 14.6g 3.7g 15424 S 46.7 48.6 0:30.62 java 15275 adowling 20 0 14.6g 4.2g 15424 S 53.2 55.4 0:32.22 java 15275 adowling 20 0 14.6g 4.7g 15424 S 50.8 61.9 0:33.75 java 15275 adowling 20 0 14.6g 5.1g 15424 S 37.9 66.6 0:34.89 java 15275 adowling 20 0 14.6g 5.1g 15424 S 0.3 66.6 0:34.90 java 15275 adowling 20 0 14.6g 5.1g 15424 S 0.3 66.6 0:34.91 java

JZMQ - G1GC - SingleThread

JZMQ Test 1

Date	18/03/2020
Library	JZMQ
Message Volume	100
Message Byte Size	10000

GC used	G1GC
MultiThreaded	NO
Completed	YES
CPU Producer	19092 adowling 20 0 15.0g 102360 13644 S 37.7 1.3 0:01.14 java 19092 adowling 20 0 15.0g 115776 14112 S 47.2 1.4 0:02.56 java 19092 adowling 20 0 15.0g 117592 14348 S 6.0 1.5 0:02.74 java 19092 adowling 20 0 15.0g 207080 15020 S 179.4 2.6 0:08.14 java 19092 adowling 20 0 15.0g 278120 15840 S 130.2 3.5 0:12.06 java
CPU Consumer	15312 adowling 20 0 15.0g 251988 15584 S 0.3 3.1 0:12.61 java 15312 adowling 20 0 15.0g 251988 15584 S 0.7 3.1 0:12.63 java 15312 adowling 20 0 15.0g 251988 15584 S 0.3 3.1 0:12.64 java 15312 adowling 20 0 15.0g 251988 15584 S 0.7 3.1 0:12.66 java 15312 adowling 20 0 15.0g 254732 15768 S 37.2 3.2 0:13.78 java 15312 adowling 20 0 15.0g 255380 15784 S 5.6 3.2 0:13.95 java 15312 adowling 20 0 15.0g 255380 15784 S 0.7 3.2 0:13.97 java 15312 adowling 20 0 15.0g 255380 15784 S 0.3 3.2 0:13.98 java

JZMQ Test 2

Date	18/03/2020
Library	JZMQ
Message Volume	100
Message Byte Size	100000
GC used	G1GC
MultiThreaded	NO
Completed	YES
CPU Producer	19212 adowling 20 0 15.0g 116448 14068 S 72.4 1.5 0:02.18 java 19212 adowling 20 0 15.0g 116448 14068 S 0.7 1.5 0:02.20 java 19212 adowling 20 0 15.0g 164476 14672 S 83.4 2.1 0:04.71 java 19212 adowling 20 0 15.0g 256148 15836 S 178.4 3.2 0:10.08 java
CPU Consumer	15312 adowling 20 0 15.0g 255380 15784 S 0.3 3.2 0:14.24 java 15312 adowling 20 0 15.0g 255380 15784 S 0.3 3.2 0:14.25 java 15312 adowling 20 0 15.0g 255380 15784 S 0.3 3.2 0:14.26 java 15312 adowling 20 0 15.0g 255380 15784 S 0.3 3.2 0:14.27 java 15312 adowling 20 0 15.0g 256392 15852 S 4.3 3.2 0:14.40 java 15312 adowling 20 0 15.0g 265528 15948 S 19.9 3.3 0:15.00 java 15312 adowling 20 0 15.0g 265528 15948 S 0.3 3.3 0:15.01 java 15312 adowling 20 0 15.0g 265528 15948 S 0.7 3.3 0:15.03 java 15312 adowling 20 0 15.0g 265528 15948 S 0.3 3.3 0:15.04 java 15312 adowling 20 0 15.0g 265540 15948 S 0.3 3.3 0:15.05 java

	15312 adowling 20 0 15.0g 265540 15948 S 0.3 3.3 0:15.06 java
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JZMQ Test 3

Date	18/03/2020
Library	JZMQ
Message Volume	100
Message Byte Size	1000000
GC used	G1GC
MultiThreaded	NO
Completed	YES
CPU Producer	19315 adowling 20 0 15.0g 134248 14132 S 78.4 1.7 0:02.36 java 19315 adowling 20 0 15.0g 127776 14132 S 0.3 1.6 0:02.37 java 19315 adowling 20 0 15.0g 205408 14796 S 148.2 2.6 0:06.83 java 19315 adowling 20 0 15.0g 448408 15848 S 148.5 5.6 0:11.30 java
CPU Consumer	15312 adowling 20 0 15.0g 265576 15948 S 0.3 3.3 0:15.23 java 15312 adowling 20 0 15.0g 265804 15948 S 0.3 3.3 0:15.24 java 15312 adowling 20 0 15.0g 265804 15948 S 0.3 3.3 0:15.25 java 15312 adowling 20 0 15.0g 265804 15948 S 0.3 3.3 0:15.26 java 15312 adowling 20 0 15.0g 266660 15948 S 0.3 3.3 0:15.27 java 15312 adowling 20 0 15.0g 630516 15968 S 62.1 7.9 0:17.14 java 15312 adowling 20 0 15.0g 630516 15968 S 0.7 7.9 0:17.16 java 15312 adowling 20 0 15.0g 630520 15968 S 0.3 7.9 0:17.17 java 15312 adowling 20 0 15.0g 630520 15968 S 0.3 7.9 0:17.18 java

JZMQ Test 4

Date	18/03/2020
Library	JZMQ
Message Volume	1000
Message Byte Size	10000
GC used	G1GC
MultiThreaded	NO
Completed	YES

CPU Producer	19414 adowling 20 0 14.8g 31708 11036 S 3.0 0.4 0:00.09 java 19414 adowling 20 0 15.0g 116796 14072 S 72.4 1.5 0:02.27 java 19414 adowling 20 0 15.0g 228224 15008 S 179.1 2.8 0:07.66 java 19414 adowling 20 0 15.0g 280020 15828 S 113.6 3.5 0:11.08 java 19414 adowling 20 0 15.0g 285924 15872 S 46.2 3.6 0:12.47 java 19414 adowling 20 0 15.0g 300772 15904 S 43.9 3.8 0:13.79 java 19414 adowling 20 0 15.0g 325832 15904 S 25.2 4.1 0:14.55 java 19414 adowling 20 0 15.0g 357476 15980 S 29.3 4.5 0:15.43 java
CPU Consumer	15312 adowling 20 0 15.0g 630736 15968 S 0.3 7.9 0:17.38 java 15312 adowling 20 0 15.0g 630776 15968 S 0.3 7.9 0:17.39 java 15312 adowling 20 0 15.0g 630776 15968 S 0.7 7.9 0:17.41 java 15312 adowling 20 0 15.0g 635076 15968 S 6.6 7.9 0:17.61 java 15312 adowling 20 0 15.0g 648824 15968 S 40.2 8.1 0:18.82 java 15312 adowling 20 0 15.0g 663600 15968 S 25.2 8.3 0:19.58 java 15312 adowling 20 0 15.0g 676076 15976 S 23.3 8.4 0:20.28 java 15312 adowling 20 0 15.0g 690856 15976 S 18.9 8.6 0:20.85 java 15312 adowling 20 0 15.0g 686560 15976 S 8.3 8.6 0:21.10 java 15312 adowling 20 0 15.0g 686560 15976 S 0.3 8.6 0:21.11 java 15312 adowling 20 0 15.0g 686560 15976 S 0.3 8.6 0:21.12 java

JZMQ Test 5

Date	18/03/2020
Library	JZMQ
Message Volume	1000
Message Byte Size	100000
GC used	G1GC
MultiThreaded	NO
Completed	YES
CPU Producer	19527 adowling 20 0 15.0g 116280 14056 S 72.8 1.5 0:02.20 java 19527 adowling 20 0 15.0g 183864 14756 S 149.2 2.3 0:06.69 java 19527 adowling 20 0 15.0g 262068 15852 S 146.8 3.3 0:11.11 java 19527 adowling 20 0 15.0g 423616 15884 S 47.2 5.3 0:12.53 java 19527 adowling 20 0 15.0g 460840 15916 S 42.7 5.8 0:13.81 java 19527 adowling 20 0 15.0g 498836 15916 S 31.9 6.2 0:14.77 java 19527 adowling 20 0 15.0g 501076 15916 S 26.2 6.3 0:15.56 java
CPU Consumer	15312 adowling 20 0 15.0g 686560 15976 S 0.3 8.6 0:21.30 java 15312 adowling 20 0 15.0g 686560 15976 S 0.3 8.6 0:21.31 java 15312 adowling 20 0 15.0g 686560 15976 S 0.3 8.6 0:21.32 java 15312 adowling 20 0 15.0g 686560 15976 S 0.7 8.6 0:21.34 java 15312 adowling 20 0 15.0g 686560 15976 S 0.3 8.6 0:21.35 java 15312 adowling 20 0 15.0g 762536 15976 S 25.9 9.5 0:22.13 java 15312 adowling 20 0 15.0g 855376 15976 S 30.6 10.7 0:23.05 java

	15312 adowling 20 0 15.0g 947924 15976 S 28.9 11.8 0:23.92 java
	15312 adowling 20 0 15.0g 977.8m 15976 S 17.9 12.5 0:24.46 java
	15312 adowling 20 0 15.0g 977.8m 15976 S 14.3 12.5 0:24.89 java
	15312 adowling 20 0 15.0g 977.8m 15976 S 0.3 12.5 0:24.90 java

JZMQ Test 6

Date	18/03/2020
Library	JZMQ
Message Volume	1000
Message Byte Size	1000000
GC used	G1GC
MultiThreaded	NO
Completed	YES
CPU Producer	19677 adowling 20 0 15.0g 129008 14124 S 84.7 1.6 0:02.55 java 19677 adowling 20 0 15.0g 129040 14132 S 2.7 1.6 0:02.63 java 19677 adowling 20 0 15.0g 146368 14552 S 63.6 1.8 0:04.55 java 19677 adowling 20 0 15.0g 259348 15564 S 181.7 3.2 0:10.00 java 19677 adowling 20 0 15.0g 850260 15864 S 107.6 10.6 0:13.24 java 19677 adowling 20 0 15.0g 1.3g 15948 S 68.4 17.4 0:15.30 java 19677 adowling 20 0 15.0g 1.4g 15980 S 68.9 18.2 0:17.38 java 19677 adowling 20 0 15.0g 1.4g 15992 S 64.1 18.1 0:19.31 java 19677 adowling 20 0 15.0g 1.4g 15992 S 48.5 18.1 0:20.77 java 19677 adowling 20 0 15.0g 1.4g 16000 S 50.8 18.1 0:22.30 java
CPU Consumer	15312 adowling 20 0 15.0g 977.9m 15976 S 0.3 12.5 0:25.22 java 15312 adowling 20 0 15.0g 977.9m 15976 S 0.3 12.5 0:25.23 java 15312 adowling 20 0 15.0g 977.9m 15976 S 0.3 12.5 0:25.24 java 15312 adowling 20 0 15.0g 977.9m 15976 S 0.7 12.5 0:25.26 java 15312 adowling 20 0 15.0g 1.0g 15976 S 37.5 13.1 0:26.39 java 15312 adowling 20 0 15.0g 1.1g 15976 S 40.5 14.7 0:27.61 java 15312 adowling 20 0 15.0g 1.2g 15976 S 48.8 15.6 0:29.08 java 15312 adowling 20 0 15.0g 1.2g 15976 S 41.5 15.6 0:30.33 java 15312 adowling 20 0 15.0g 1.2g 15976 S 38.2 15.6 0:31.48 java 15312 adowling 20 0 15.0g 1.2g 15976 S 38.9 15.7 0:32.65 java 15312 adowling 20 0 15.0g 1.2g 15992 S 23.9 15.8 0:33.37 java 15312 adowling 20 0 15.0g 1.2g 15992 S 0.3 15.8 0:33.38 java 15312 adowling 20 0 15.0g 1.2g 15992 S 0.3 15.8 0:33.39 java 15312 adowling 20 0 15.0g 1.2g 15992 S 0.3 15.8 0:33.40 java

JZMQ - G1GC - MultiThread

JZMQ Test 1

Date	18/03/2020
Library	JZMQ
Message Volume	100
Message Byte Size	10000
GC used	G1GC
MultiThreaded	YES
Completed	YES
CPU Producer	19915 adowling 20 0 15.0g 125580 14096 S 82.1 1.6 0:02.47 java 19915 adowling 20 0 15.0g 125580 14096 S 0.3 1.6 0:02.48 java 19915 adowling 20 0 15.0g 171260 14640 S 81.8 2.1 0:04.95 java 19915 adowling 20 0 15.0g 270032 15764 S 175.0 3.4 0:10.20 java
CPU Consumer	15426 adowling 20 0 15.0g 265876 15576 S 0.3 3.3 0:10.02 java 15426 adowling 20 0 15.0g 265876 15576 S 0.3 3.3 0:10.03 java 15426 adowling 20 0 15.0g 265876 15576 S 0.3 3.3 0:10.04 java 15426 adowling 20 0 15.0g 265876 15576 S 0.7 3.3 0:10.06 java 15426 adowling 20 0 15.0g 269160 15756 S 44.5 3.4 0:11.40 java

JZMQ Test 2

Date	18/03/2020
Library	JZMQ
Message Volume	100
Message Byte Size	100000
GC used	G1GC
MultiThreaded	YES
Completed	YES
CPU Producer	20104 adowling 20 0 15.0g 121116 13928 S 74.4 1.5 0:02.24 java 20104 adowling 20 0 15.0g 135072 14140 S 28.3 1.7 0:03.09 java 20104 adowling 20 0 15.0g 145888 14516 S 59.6 1.8 0:04.89 java 20104 adowling 20 0 15.0g 242648 15044 S 185.1 3.0 0:10.48 java

CPU Consumer	15426 adowling 20 0 15.0g 269172 15756 S 0.3 3.4 0:11.97 java 15426 adowling 20 0 15.0g 269172 15756 S 0.3 3.4 0:11.98 java 15426 adowling 20 0 15.0g 269172 15756 S 0.3 3.4 0:11.99 java 15426 adowling 20 0 15.0g 269172 15756 S 0.3 3.4 0:12.00 java 15426 adowling 20 0 15.0g 269172 15756 S 0.3 3.4 0:12.01 java 15426 adowling 20 0 15.0g 270592 15924 S 23.9 3.4 0:12.73 java
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JZMQ Test 3

Date	18/03/2020
Library	JZMQ
Message Volume	100
Message Byte Size	1000000
GC used	G1GC
MultiThreaded	YES
Completed	YES
CPU Producer	20219 adowling 20 0 15.0g 125528 14100 S 85.4 1.6 0:02.57 java 20219 adowling 20 0 15.0g 184660 14576 S 88.4 2.3 0:05.24 java 20219 adowling 20 0 15.0g 265816 15820 S 183.4 3.3 0:10.78 java
CPU Consumer	15426 adowling 20 0 15.0g 270596 15924 S 0.3 3.4 0:12.99 java 15426 adowling 20 0 15.0g 270596 15924 S 0.3 3.4 0:13.00 java 15426 adowling 20 0 15.0g 270596 15924 S 0.7 3.4 0:13.02 java 15426 adowling 20 0 15.0g 270596 15924 S 0.3 3.4 0:13.03 java 15426 adowling 20 0 15.0g 366596 15924 S 13.3 4.6 0:13.43 java 15426 adowling 20 0 15.0g 494372 15924 S 39.5 6.2 0:14.62 java 15426 adowling 20 0 15.0g 494372 15924 S 0.3 6.2 0:14.63 java

JZMQ Test 4

Date	18/03/2020
Library	JZMQ
Message Volume	1000
Message Byte Size	10000
GC used	G1GC

MultiThreaded	YES
Completed	YES
CPU Producer	20311 adowling 20 0 15.0g 124816 14052 S 79.4 1.6 0:02.39 java 20311 adowling 20 0 15.0g 172080 14632 S 104.0 2.1 0:05.53 java 20311 adowling 20 0 15.0g 259924 15816 S 176.7 3.2 0:10.85 java 20311 adowling 20 0 15.0g 273576 15864 S 49.7 3.4 0:12.34 java 20311 adowling 20 0 15.0g 271828 15892 S 48.2 3.4 0:13.79 java 20311 adowling 20 0 15.0g 272972 15904 S 33.6 3.4 0:14.80 java 20311 adowling 20 0 15.0g 286616 15904 S 22.3 3.6 0:15.47 java
CPU Consumer	15426 adowling 20 0 15.0g 494388 15924 S 0.3 6.2 0:14.86 java 15426 adowling 20 0 15.0g 494388 15924 S 0.3 6.2 0:14.87 java 15426 adowling 20 0 15.0g 494388 15924 S 0.3 6.2 0:14.88 java 15426 adowling 20 0 15.0g 494664 15924 S 8.6 6.2 0:15.14 java 15426 adowling 20 0 15.0g 497228 15924 S 38.9 6.2 0:16.31 java 15426 adowling 20 0 15.0g 497796 15924 S 27.2 6.2 0:17.13 java 15426 adowling 20 0 15.0g 498028 15932 S 20.9 6.2 0:17.76 java 15426 adowling 20 0 15.0g 498388 15932 S 16.9 6.2 0:18.27 java 15426 adowling 20 0 15.0g 498640 15932 S 11.7 6.2 0:18.62 java 15426 adowling 20 0 15.0g 498640 15932 S 0.3 6.2 0:18.63 java 15426 adowling 20 0 15.0g 498640 15932 S 0.3 6.2 0:18.64 java 15426 adowling 20 0 15.0g 498640 15932 S 0.3 6.2 0:18.65 java 15426 adowling 20 0 15.0g 498640 15932 S 0.7 6.2 0:18.67 java

JZMQ Test 5

Date	18/03/2020
Library	JZMQ
Message Volume	1000
Message Byte Size	100000
GC used	G1GC
MultiThreaded	YES
Completed	YES
CPU Producer	20416 adowling 20 0 15.0g 133884 14076 S 93.7 1.7 0:02.82 java 20416 adowling 20 0 15.0g 124460 14076 S 0.3 1.6 0:02.83 java 20416 adowling 20 0 15.0g 185188 14768 S 150.7 2.3 0:07.38 java 20416 adowling 20 0 15.0g 270116 15840 S 151.5 3.4 0:11.94 java 20416 adowling 20 0 15.0g 299468 15892 S 46.2 3.7 0:13.33 java 20416 adowling 20 0 15.0g 337284 15904 S 44.7 4.2 0:14.67 java 20416 adowling 20 0 15.0g 395592 15920 S 36.5 4.9 0:15.77 java 20416 adowling 20 0 15.0g 457464 15920 S 26.2 5.7 0:16.56 java
CPU Consumer	15426 adowling 20 0 15.0g 498640 15932 S 0.3 6.2 0:18.81 java 15426 adowling 20 0 15.0g 498640 15932 S 0.3 6.2 0:18.82 java

	15426 adowling 20 0 15.0g 498640 15932 S 0.3 6.2 0:18.83 java
	15426 adowling 20 0 15.0g 498640 15932 S 0.3 6.2 0:18.84 java
	15426 adowling 20 0 15.0g 498640 15932 S 4.0 6.2 0:18.96 java
	15426 adowling 20 0 15.0g 523428 15932 S 28.8 6.5 0:19.83 java
	15426 adowling 20 0 15.0g 523812 15932 S 28.7 6.5 0:20.69 java
	15426 adowling 20 0 15.0g 542620 15932 S 24.8 6.8 0:21.44 java
	15426 adowling 20 0 15.0g 552908 15932 S 15.6 6.9 0:21.91 java

JZMQ Test 6

Date	18/03/2020
Library	JZMQ
Message Volume	1000
Message Byte Size	1000000
GC used	G1GC
MultiThreaded	YES
Completed	YES
CPU Producer	20518 adowling 20 0 15.0g 37400 12640 S 6.3 0.5 0:00.19 java 20518 adowling 20 0 15.0g 119204 14116 S 67.8 1.5 0:02.23 java 20518 adowling 20 0 15.0g 225456 14924 S 185.4 2.8 0:07.83 java 20518 adowling 20 0 15.0g 534512 15848 S 135.2 6.7 0:11.90 java 20518 adowling 20 0 15.0g 798156 15896 S 63.5 10.0 0:13.81 java 20518 adowling 20 0 15.0g 1.3g 15976 S 70.7 17.1 0:15.93 java 20518 adowling 20 0 15.0g 1.3g 15988 S 65.4 17.2 0:17.90 java 20518 adowling 20 0 15.0g 1.3g 15992 S 54.2 17.2 0:19.53 java 20518 adowling 20 0 15.0g 1.3g 15992 S 50.2 17.2 0:21.04 java 20518 adowling 20 0 15.0g 1.3g 16068 S 63.1 17.2 0:22.94 java
CPU Consumer	15426 adowling 20 0 15.0g 569324 15932 S 0.3 7.1 0:22.41 java 15426 adowling 20 0 15.0g 569324 15932 S 0.7 7.1 0:22.43 java 15426 adowling 20 0 15.0g 569324 15932 S 0.3 7.1 0:22.44 java 15426 adowling 20 0 15.0g 569468 15932 S 9.6 7.1 0:22.73 java 15426 adowling 20 0 15.0g 684188 15932 S 42.0 8.5 0:23.99 java 15426 adowling 20 0 15.0g 1.1g 15932 S 55.5 13.8 0:25.66 java 15426 adowling 20 0 15.0g 1.4g 15936 S 55.8 18.4 0:27.34 java 15426 adowling 20 0 15.0g 1.4g 15936 S 45.2 18.4 0:28.70 java 15426 adowling 20 0 15.0g 1.4g 15936 S 43.9 18.3 0:30.02 java 15426 adowling 20 0 15.0g 1.4g 15936 S 47.5 18.4 0:31.45 java 15426 adowling 20 0 15.0g 1.4g 15960 S 6.6 18.4 0:31.65 java 15426 adowling 20 0 15.0g 1.4g 15960 S 0.3 18.4 0:31.66 java

