Dissertation Testing - JEROMQ

JEROMQ - EpsilonGC - SingleThread

JEROMQ Test 1

Date	18/03/2020
Library	JEROMQ
Message Volume	100
Message Byte Size	10000
GC used	EpsilonGC
MultiThreaded	NO
Completed	YES
CPU Producer	10234 adowling 20 0 14.3g 157268 13660 S 88.7 2.0 0:02.67 java 10234 adowling 20 0 14.4g 272392 14140 S 76.8 3.4 0:04.99 java 10234 adowling 20 0 14.5g 552948 14524 S 182.1 6.9 0:10.47 java 10234 adowling 20 0 14.5g 652752 14628 S 106.7 8.2 0:13.67 java
CPU Consumer	14919 adowling 20 0 14.3g 156836 13648 S 79.7 2.0 0:02.40 java 14919 adowling 20 0 14.3g 279216 14136 S 80.4 3.5 0:04.82 java 14919 adowling 20 0 14.5g 558476 14512 S 179.1 7.0 0:10.21 java 14919 adowling 20 0 14.5g 590716 14520 S 29.0 7.4 0:11.08 java 14919 adowling 20 0 14.5g 581608 14520 S 2.3 7.3 0:11.15 java

JEROMQ Test 2

Date	18/03/2020
Library	JEROMQ
Message Volume	100
Message Byte Size	100000
GC used	EpsilonGC
MultiThreaded	NO
Completed	YES

CPU Producer	10924 adowling 20 0 14.2g 35448 12536 S 13.0 0.4 0:00.39 java 10924 adowling 20 0 14.3g 168988 13644 S 73.3 2.1 0:02.59 java 10924 adowling 20 0 14.3g 444936 14296 S 177.2 5.6 0:07.96 java 10924 adowling 20 0 14.5g 676528 14572 S 136.0 8.4 0:12.04 java
CPU Consumer	14944 adowling 20 0 14.2g 94848 13152 S 37.9 1.2 0:01.14 java 14944 adowling 20 0 14.3g 181432 13644 S 60.8 2.3 0:02.97 java 14944 adowling 20 0 14.3g 187724 13912 S 16.9 2.3 0:03.48 java 14944 adowling 20 0 14.5g 441604 14500 S 185.8 5.5 0:09.09 java 14944 adowling 20 0 14.5g 592964 14512 S 116.3 7.4 0:12.58 java 14944 adowling 20 0 14.5g 578388 14512 S 2.3 7.2 0:12.65 java 14944 adowling 20 0 14.5g 578448 14512 S 1.7 7.2 0:12.70 java 14944 adowling 20 0 14.5g 580600 14512 S 3.0 7.2 0:12.79 java 14944 adowling 20 0 14.5g 580948 14512 S 1.7 7.3 0:12.84 java 14944 adowling 20 0 14.5g 580952 14512 S 1.0 7.3 0:12.87 java 14944 adowling 20 0 14.5g 588852 14512 S 8.3 7.4 0:13.12 java 14944 adowling 20 0 14.5g 635644 14540 S 43.5 7.9 0:14.43 java 14944 adowling 20 0 14.5g 635660 14540 S 1.3 7.9 0:14.47 java 14944 adowling 20 0 14.5g 635780 14540 S 2.0 7.9 0:14.53 java

JEROMQ Test 3

Date	18/03/2020
Library	JEROMQ
Message Volume	100
Message Byte Size	1000000
GC used	EpsilonGC
MultiThreaded	NO
Completed	YES
CPU Producer	11065 adowling 20 0 14.2g 91748 13060 S 27.2 1.1 0:00.82 java 11065 adowling 20 0 14.3g 162216 13644 S 47.0 2.0 0:02.23 java 11065 adowling 20 0 14.3g 162216 13644 S 0.3 2.0 0:02.24 java 11065 adowling 20 0 14.3g 299368 14184 S 77.1 3.7 0:04.56 java 11065 adowling 20 0 14.5g 636972 14480 S 186.7 8.0 0:10.18 java 11065 adowling 20 0 14.5g 1.1g 14576 S 122.3 14.0 0:13.85 java
CPU Consumer	14944 adowling 20 0 14.5g 640128 14540 S 0.7 8.0 0:15.41 java 14944 adowling 20 0 14.5g 640128 14540 S 0.7 8.0 0:15.43 java 14944 adowling 20 0 14.5g 640128 14540 S 0.7 8.0 0:15.45 java 14944 adowling 20 0 14.5g 640132 14540 S 1.0 8.0 0:15.48 java 14944 adowling 20 0 14.5g 640136 14540 S 1.3 8.0 0:15.52 java 14944 adowling 20 0 14.5g 640136 14540 S 0.3 8.0 0:15.53 java 14944 adowling 20 0 14.5g 640136 14540 S 0.7 8.0 0:15.55 java

```
14944 adowling  20   0   14.5g 642184  14540 S   1.0  8.0   0:15.58 java
14944 adowling  20   0   14.5g 642184  14540 S   0.7  8.0   0:15.60 java
14944 adowling  20   0   14.5g 642184  14540 S   0.7  8.0   0:15.62 java
14944 adowling  20   0   14.5g 789076  14632 S   27.9 9.9   0:16.46 java
14944 adowling  20   0   14.5g   1.0g  14632 S   46.2 13.1  0:17.85 java
14944 adowling  20   0   14.5g   1.0g  14632 S   0.3 13.1   0:17.86 java
14944 adowling  20   0   14.5g   1.0g  14632 S   0.7 13.1   0:17.88 java
14944 adowling  20   0   14.5g   1.0g  14644 S   3.0 13.1   0:17.97 java
```

JEROMQ Test 4

Date	16/03/2020
Library	JEROMQ
Message Volume	1000
Message Byte Size	10000
GC used	EpsilonGC
MultiThreaded	NO
Completed	YES
| CPU Producer | ```
11401 adowling  20   0   14.3g 166228  13616 S   79.7  2.1   0:02.40 java
11401 adowling  20   0   14.3g 163036  13616 S   0.3   2.0   0:02.41 java
11401 adowling  20   0   14.3g 363312  14248 S   121.2 4.5   0:06.07 java
11401 adowling  20   0   14.5g 643612  14572 S   174.4 8.0   0:11.32 java
11401 adowling  20   0   14.5g 667332  14624 S   47.8  8.3   0:12.76 java
11401 adowling  20   0   14.5g 688108  14640 S   47.7  8.6   0:14.19 java
11401 adowling  20   0   14.5g 713908  14652 S   45.5  8.9   0:15.56 java
11401 adowling  20   0   14.5g 738700  14656 S   19.3  9.2   0:16.14 java
``` |
| CPU Consumer | ```
14944 adowling  20   0   14.5g  4.8g  14712 S   0.7  63.3   0:40.18 java
14944 adowling  20   0   14.5g  4.8g  14712 S   0.3  63.3   0:40.19 java
14944 adowling  20   0   14.5g  4.8g  14712 S   0.7  63.3   0:40.21 java
14944 adowling  20   0   14.5g  4.8g  14712 S   0.7  63.3   0:40.23 java
14944 adowling  20   0   14.5g  4.8g  14712 S   0.3  63.3   0:40.24 java
14944 adowling  20   0   14.5g  4.8g  14712 S   0.7  63.3   0:40.26 java
14944 adowling  20   0   14.5g  4.8g  14712 S   15.6 63.4   0:40.73 java
14944 adowling  20   0   14.5g  4.9g  14712 S   22.7 63.5   0:41.41 java
14944 adowling  20   0   14.5g  4.9g  14712 S   18.6 63.7   0:41.97 java
14944 adowling  20   0   14.5g  4.9g  14712 S   21.9 63.9   0:42.63 java
14944 adowling  20   0   14.5g  4.9g  14712 S   13.0 64.0   0:43.02 java
14944 adowling  20   0   14.5g  4.9g  14712 S   6.3  64.1   0:43.21 java
14944 adowling  20   0   14.5g  4.9g  14712 S   0.7  64.1   0:43.23 java
14944 adowling  20   0   14.5g  4.9g  14712 S   0.7  64.1   0:43.25 java
14944 adowling  20   0   14.5g  4.9g  14712 S   0.3  64.1   0:43.26 java
14944 adowling  20   0   14.5g  4.9g  14712 S   0.7  64.1   0:43.28 java
``` |


JEROMQ Test 5

Date	18/03/2020
Library	JEROMQ
Message Volume	1000
Message Byte Size	100000
GC used	EpsilonGC
MultiThreaded	NO
Completed	YES
CPU Producer	11537 adowling 20 0 14.3g 159260 13644 S 74.8 2.0 0:02.25 java 11537 adowling 20 0 14.3g 290844 14168 S 78.7 3.6 0:04.62 java 11537 adowling 20 0 14.5g 604472 14488 S 184.8 7.5 0:10.20 java 11537 adowling 20 0 14.5g 765412 14632 S 79.7 9.6 0:12.60 java 11537 adowling 20 0 14.5g 912312 14656 S 51.2 11.4 0:14.14 java 11537 adowling 20 0 14.5g 1.0g 14668 S 48.0 13.4 0:15.58 java 11537 adowling 20 0 14.5g 1.2g 14668 S 32.6 15.4 0:16.56 java
CPU Consumer	14944 adowling 20 0 14.5g 4.9g 14712 S 0.3 64.1 0:44.10 java 14944 adowling 20 0 14.5g 4.9g 14712 S 0.7 64.1 0:44.12 java 14944 adowling 20 0 14.5g 4.9g 14712 S 0.3 64.1 0:44.13 java 14944 adowling 20 0 14.5g 4.9g 14712 S 0.3 64.1 0:44.14 java 14944 adowling 20 0 14.5g 4.9g 14712 S 0.7 64.1 0:44.16 java 14944 adowling 20 0 14.5g 4.9g 14712 S 6.6 64.3 0:44.36 java 14944 adowling 20 0 14.5g 5.0g 14712 S 17.5 65.4 0:44.89 java 14944 adowling 20 0 14.5g 5.1g 14712 S 32.9 66.7 0:45.88 java 14944 adowling 20 0 14.5g 5.2g 14712 S 32.2 67.7 0:46.85 java 14944 adowling 20 0 14.5g 5.3g 14712 S 24.6 68.9 0:47.59 java 14944 adowling 20 0 14.5g 5.3g 14712 S 10.3 69.5 0:47.90 java 14944 adowling 20 0 14.5g 5.3g 14712 S 0.3 69.5 0:47.91 java 14944 adowling 20 0 14.5g 5.3g 14712 S 1.0 69.5 0:47.94 java 14944 adowling 20 0 14.5g 5.3g 14712 S 0.3 69.5 0:47.95 java

JEROMQ Test 6

Date	18/03/2020
Library	JEROMQ

Message Volume	1000
Message Byte Size	1000000
GC used	EpsilonGC
MultiThreaded	NO
Completed	YES
CPU Producer	11214 adowling 20 0 14.2g 84884 12968 S 24.9 1.1 0:00.75 java 11214 adowling 20 0 14.3g 177168 13672 S 62.1 2.2 0:02.62 java 11214 adowling 20 0 14.3g 171848 13848 S 1.7 2.1 0:02.67 java 11214 adowling 20 0 14.5g 487308 14500 S 186.0 6.1 0:08.27 java 11214 adowling 20 0 14.5g 982.7m 14600 S 140.5 12.6 0:12.50 java 11214 adowling 20 0 14.5g 1.6g 14644 S 79.7 20.9 0:14.90 java 11214 adowling 20 0 14.5g 2.2g 14652 S 89.7 28.7 0:17.60 java 11214 adowling 20 0 14.5g 2.8g 14664 S 79.4 36.9 0:19.99 java 11214 adowling 20 0 14.5g 3.4g 14664 S 95.3 44.8 0:22.86 java 11214 adowling 20 0 14.5g 4.0g 14676 S 86.4 52.8 0:25.46 java 11214 adowling 20 0 14.5g 4.6g 14676 S 87.7 60.5 0:28.10 java 11214 adowling 20 0 14.5g 5.3g 14676 S 76.8 68.7 0:30.42 java 11214 adowling 20 0 14.5g 5.9g 14676 S 74.5 77.1 0:32.67 java 11214 adowling 20 0 14.5g 6.5g 14688 S 84.1 85.3 0:35.21 java
CPU Consumer	14944 adowling 20 0 14.5g 1.0g 14668 S 0.3 13.1 0:19.14 java 14944 adowling 20 0 14.5g 1.0g 14668 S 1.0 13.1 0:19.17 java 14944 adowling 20 0 14.5g 1.0g 14668 S 0.3 13.1 0:19.18 java 14944 adowling 20 0 14.5g 1.0g 14668 S 0.7 13.1 0:19.20 java 14944 adowling 20 0 14.5g 1.0g 14668 S 0.7 13.1 0:19.22 java 14944 adowling 20 0 14.5g 1.0g 14668 S 2.3 13.2 0:19.29 java 14944 adowling 20 0 14.5g 1.4g 14680 S 94.0 18.8 0:22.13 java 14944 adowling 20 0 14.5g 1.8g 14680 S 77.0 23.9 0:24.44 java 14944 adowling 20 0 14.5g 2.2g 14680 S 71.4 28.9 0:26.59 java 14944 adowling 20 0 14.5g 2.6g 14680 S 67.9 33.9 0:28.64 java 14944 adowling 20 0 14.5g 3.0g 14680 S 61.5 38.9 0:30.49 java 14944 adowling 20 0 14.5g 3.3g 14680 S 56.5 43.8 0:32.19 java 14944 adowling 20 0 14.5g 3.7g 14680 S 59.5 48.7 0:33.98 java 14944 adowling 20 0 14.5g 4.1g 14688 S 62.5 54.0 0:35.86 java 14944 adowling 20 0 14.5g 4.5g 14688 S 59.3 59.0 0:37.65 java 14944 adowling 20 0 14.5g 4.8g 14688 S 51.7 63.2 0:39.20 java 14944 adowling 20 0 14.5g 4.8g 14688 S 0.3 63.2 0:39.21 java 14944 adowling 20 0 14.5g 4.8g 14688 S 0.7 63.2 0:39.23 java 14944 adowling 20 0 14.5g 4.8g 14688 S 0.7 63.2 0:39.25 java

JEROMQ - EpsilonGC - MultiThread

JEROMQ Test 1

Date	18/03/2020

Library	JEROMQ
Message Volume	100
Message Byte Size	10000
GC used	EpsilonGC
MultiThreaded	YES
Completed	YES
CPU Producer	11856 adowling 20 0 14.3g 163400 13432 S 76.4 2.0 0:02.30 java 11856 adowling 20 0 14.3g 172852 13664 S 7.3 2.2 0:02.52 java 11856 adowling 20 0 14.3g 255900 14020 S 54.2 3.2 0:04.15 java 11856 adowling 20 0 14.5g 559996 14488 S 180.7 7.0 0:09.59 java
CPU Consumer	14978 adowling 20 0 14.3g 164992 13840 S 17.6 2.1 0:02.75 java 14978 adowling 20 0 14.5g 442668 14492 S 188.0 5.5 0:08.41 java 14978 adowling 20 0 14.5g 580980 14524 S 82.3 7.3 0:10.88 java 14978 adowling 20 0 14.5g 576388 14524 S 1.7 7.2 0:10.93 java 14978 adowling 20 0 14.5g 576444 14524 S 1.7 7.2 0:10.98 java 14978 adowling 20 0 14.5g 576520 14524 S 2.0 7.2 0:11.04 java 14978 adowling 20 0 14.5g 576868 14524 S 1.3 7.2 0:11.08 java 14978 adowling 20 0 14.5g 576876 14524 S 2.0 7.2 0:11.14 java 14978 adowling 20 0 14.5g 576964 14524 S 1.0 7.2 0:11.17 java 14978 adowling 20 0 14.5g 592944 14544 S 37.9 7.4 0:12.31 java 14978 adowling 20 0 14.5g 595084 14544 S 3.0 7.4 0:12.40 java 14978 adowling 20 0 14.5g 595184 14544 S 1.7 7.4 0:12.45 java 14978 adowling 20 0 14.5g 595184 14544 S 1.0 7.4 0:12.48 java 14978 adowling 20 0 14.5g 595184 14544 S 0.7 7.4 0:12.50 java

JEROMQ Test 2

Date	18/03/2020
Library	JEROMQ
Message Volume	100
Message Byte Size	100000
GC used	EpsilonGC
MultiThreaded	YES
Completed	YES
CPU Producer	12013 adowling 20 0 14.3g 164680 13608 S 79.1 2.1 0:02.39 java 12013 adowling 20 0 14.3g 395632 14276 S 144.9 4.9 0:06.75 java 12013 adowling 20 0 14.5g 674208 14576 S 162.5 8.4 0:11.64 java

CPU Consumer	14978 adowling 20 0 14.5g 599560 14544 S 6.7 7.5 0:13.55 **java** 14978 adowling 20 0 14.5g 599560 14544 S 0.3 7.5 0:13.56 **java** 14978 adowling 20 0 14.5g 599560 14544 S 1.0 7.5 0:13.59 **java** 14978 adowling 20 0 14.5g 599560 14544 S 0.7 7.5 0:13.61 **java** 14978 adowling 20 0 14.5g 601616 14544 S 0.7 7.5 0:13.63 **java** 14978 adowling 20 0 14.5g 601652 14568 S 2.6 7.5 0:13.71 **java** 14978 adowling 20 0 14.5g 637560 14664 S 22.6 8.0 0:14.39 **java** 14978 adowling 20 0 14.5g 643884 14664 S 4.0 8.0 0:14.51 **java** 14978 adowling 20 0 14.5g 643888 14664 S 1.0 8.0 0:14.54 **java** 14978 adowling 20 0 14.5g 643888 14664 S 0.3 8.0 0:14.55 **java** 14978 adowling 20 0 14.5g 645964 14676 S 1.7 8.1 0:14.60 **java**

JEROMQ Test 3

Date	18/03/2020
Library	JEROMQ
Message Volume	100
Message Byte Size	1000000
GC used	EpsilonGC
MultiThreaded	YES
Completed	YES
CPU Producer	12113 adowling 20 0 14.3g 158076 13652 S 73.1 2.0 0:02.20 **java** 12113 adowling 20 0 14.3g 441960 14336 S 155.3 5.5 0:06.89 **java** 12113 adowling 20 0 14.5g 901696 14604 S 156.7 11.3 0:11.59 **java**
CPU Consumer	14978 adowling 20 0 14.5g 651312 14692 S 0.7 8.1 0:15.25 **java** 14978 adowling 20 0 14.5g 651312 14692 S 0.7 8.1 0:15.27 **java** 14978 adowling 20 0 14.5g 651312 14692 S 0.3 8.1 0:15.28 **java** 14978 adowling 20 0 14.5g 651320 14692 S 1.0 8.1 0:15.31 **java** 14978 adowling 20 0 14.5g 646076 14692 S 0.7 8.1 0:15.33 **java** 14978 adowling 20 0 14.5g 1.0g 14692 S 59.5 12.8 0:17.12 **java** 14978 adowling 20 0 14.5g 1.0g 14692 S 7.3 13.2 0:17.34 **java** 14978 adowling 20 0 14.5g 1.0g 14692 S 0.3 13.2 0:17.35 **java** 14978 adowling 20 0 14.5g 1.0g 14692 S 1.7 13.2 0:17.40 **java**

JEROMQ Test 4

Date	18/03/2020
Library	JEROMQ
Message Volume	1000
Message Byte Size	10000
GC used	EpsilonGC
MultiThreaded	YES
Completed	YES
CPU Producer	12207 adowling 20 0 14.3g 171844 13692 S 76.4 2.1 0:02.30 java 12207 adowling 20 0 14.3g 368824 14256 S 122.6 4.6 0:05.99 java 12207 adowling 20 0 14.5g 649452 14608 S 167.8 8.1 0:11.04 java 12207 adowling 20 0 14.5g 675256 14636 S 50.8 8.4 0:12.57 java 12207 adowling 20 0 14.5g 699312 14680 S 50.5 8.7 0:14.09 java 12207 adowling 20 0 14.5g 723104 14692 S 43.9 9.0 0:15.41 java 12207 adowling 20 0 14.5g 745808 14692 S 19.9 9.3 0:16.01 java
CPU Consumer	14978 adowling 20 0 14.5g 1.0g 14692 S 0.7 13.2 0:17.74 java 14978 adowling 20 0 14.5g 1.0g 14692 S 1.3 13.2 0:17.78 java 14978 adowling 20 0 14.5g 1.0g 14692 S 0.7 13.2 0:17.80 java 14978 adowling 20 0 14.5g 1.0g 14712 S 1.7 13.2 0:17.85 java 14978 adowling 20 0 14.5g 1.0g 14712 S 1.0 13.2 0:17.88 java 14978 adowling 20 0 14.5g 1.0g 14712 S 31.9 13.3 0:18.84 java 14978 adowling 20 0 14.5g 1.0g 14716 S 38.2 13.5 0:19.99 java 14978 adowling 20 0 14.5g 1.0g 14716 S 19.6 13.6 0:20.58 java 14978 adowling 20 0 14.5g 1.1g 14716 S 22.6 13.8 0:21.26 java 14978 adowling 20 0 14.5g 1.1g 14724 S 27.6 13.9 0:22.09 java 14978 adowling 20 0 14.5g 1.1g 14724 S 5.0 14.0 0:22.24 java 14978 adowling 20 0 14.5g 1.1g 14724 S 1.0 14.0 0:22.27 java 14978 adowling 20 0 14.5g 1.1g 14724 S 0.7 14.0 0:22.29 java 14978 adowling 20 0 14.5g 1.1g 14724 S 0.3 14.0 0:22.30 java 14978 adowling 20 0 14.5g 1.1g 14728 S 0.7 14.0 0:22.32 java

JEROMQ Test 5

Date	18/03/2020
Library	JEROMQ
Message Volume	1000
Message Byte Size	100000
GC used	EpsilonGC
MultiThreaded	YES

Completed	YES
CPU Producer	12324 adowling 20 0 14.3g 168192 13644 S 78.7 2.1 0:02.37 java 12324 adowling 20 0 14.3g 164080 13644 S 0.3 2.0 0:02.38 java 12324 adowling 20 0 14.3g 410608 14292 S 144.2 5.1 0:06.72 java 12324 adowling 20 0 14.5g 683168 14616 S 145.5 8.5 0:11.10 java 12324 adowling 20 0 14.5g 838152 14660 S 49.8 10.5 0:12.60 java 12324 adowling 20 0 14.5g 989612 14668 S 53.5 12.4 0:14.21 java 12324 adowling 20 0 14.5g 1.1g 14680 S 47.5 14.3 0:15.64 java 12324 adowling 20 0 14.5g 1.3g 14680 S 26.2 16.4 0:16.43 java
CPU Consumer	14978 adowling 20 0 14.5g 1.1g 14728 S 0.7 14.0 0:22.69 java 14978 adowling 20 0 14.5g 1.1g 14728 S 0.7 14.0 0:22.71 java 14978 adowling 20 0 14.5g 1.1g 14728 S 0.3 14.0 0:22.72 java 14978 adowling 20 0 14.5g 1.1g 14728 S 0.3 14.0 0:22.73 java 14978 adowling 20 0 14.5g 1.1g 14728 S 3.3 14.1 0:22.83 java 14978 adowling 20 0 14.5g 1.2g 14728 S 26.6 15.2 0:23.63 java 14978 adowling 20 0 14.5g 1.2g 14728 S 28.9 16.3 0:24.50 java 14978 adowling 20 0 14.5g 1.3g 14728 S 29.6 17.5 0:25.39 java 14978 adowling 20 0 14.5g 1.4g 14728 S 19.3 18.7 0:25.97 java 14978 adowling 20 0 14.5g 1.5g 14728 S 13.0 19.4 0:26.36 java 14978 adowling 20 0 14.5g 1.5g 14728 S 0.3 19.4 0:26.37 java 14978 adowling 20 0 14.5g 1.5g 14728 S 0.7 19.4 0:26.39 java 14978 adowling 20 0 14.5g 1.5g 14728 S 0.3 19.4 0:26.40 java

JEROMQ Test 6

Date	18/03/2020
Library	JEROMQ
Message Volume	1000
Message Byte Size	1000000
GC used	EpsilonGC
MultiThreaded	YES
Completed	YES
CPU Producer	12439 adowling 20 0 14.3g 178584 13552 S 90.4 2.2 0:02.72 java 12439 adowling 20 0 14.3g 363616 14260 S 125.2 4.5 0:06.49 java 12439 adowling 20 0 14.5g 771740 14580 S 162.5 9.6 0:11.38 java 12439 adowling 20 0 14.5g 1.5g 14624 S 78.0 19.8 0:13.72 java 12439 adowling 20 0 14.5g 2.3g 14648 S 76.4 29.7 0:16.02 java 12439 adowling 20 0 14.5g 3.1g 14648 S 71.4 40.1 0:18.17 java 12439 adowling 20 0 14.5g 3.9g 14660 S 70.4 50.9 0:20.29 java 12439 adowling 20 0 14.5g 4.7g 14660 S 70.8 61.9 0:22.42 java 12439 adowling 20 0 14.5g 5.5g 14660 S 62.8 72.1 0:24.31 java 12439 adowling 20 0 14.5g 6.3g 14664 S 66.4 83.1 0:26.31 java

CPU Consumer	14978 adowling 20 0 14.5g 1.5g 14728 S 0.7 19.4 0:26.82 java 14978 adowling 20 0 14.5g 1.5g 14728 S 0.7 19.4 0:26.84 java 14978 adowling 20 0 14.5g 1.5g 14728 S 0.3 19.4 0:26.85 java 14978 adowling 20 0 14.5g 1.5g 14728 S 0.7 19.4 0:26.87 java 14978 adowling 20 0 14.5g 1.5g 14728 S 0.7 19.4 0:26.89 java 14978 adowling 20 0 14.5g 1.5g 14728 S 9.0 19.4 0:27.16 java 14978 adowling 20 0 14.5g 1.5g 14728 S 4.3 19.9 0:27.29 java 14978 adowling 20 0 14.5g 2.0g 14728 S 49.5 26.3 0:28.78 java 14978 adowling 20 0 14.5g 2.5g 14728 S 53.5 32.6 0:30.39 java 14978 adowling 20 0 14.5g 3.0g 14728 S 66.1 39.1 0:32.38 java 14978 adowling 20 0 14.5g 3.5g 14728 S 56.0 45.8 0:34.06 java 14978 adowling 20 0 14.5g 4.0g 14728 S 51.2 52.6 0:35.60 java 14978 adowling 20 0 14.5g 4.5g 14728 S 55.3 59.1 0:37.27 java 14978 adowling 20 0 14.5g 5.0g 14728 S 50.0 65.9 0:38.77 java 14978 adowling 20 0 14.5g 5.3g 14748 S 34.2 69.5 0:39.80 java 14978 adowling 20 0 14.5g 5.3g 14748 S 0.7 69.5 0:39.82 java

JEROMQ - G1GC - SingleThread

JEROMQ Test 1

Date	18/03/2020
Library	JEROMQ
Message Volume	100
Message Byte Size	10000
GC used	G1GC
MultiThreaded	NO
Completed	YES
CPU Producer	12686 adowling 20 0 15.0g 105316 13732 S 45.2 1.3 0:01.37 java 12686 adowling 20 0 15.0g 118092 14112 S 40.0 1.5 0:02.57 java 12686 adowling 20 0 15.0g 124956 14416 S 25.2 1.6 0:03.33 java 12686 adowling 20 0 15.0g 251760 15000 S 187.4 3.1 0:08.97 java
CPU Consumer	15021 adowling 20 0 15.0g 252900 15020 S 6.7 3.2 0:11.22 java 15021 adowling 20 0 15.0g 252964 15020 S 1.3 3.2 0:11.26 java 15021 adowling 20 0 15.0g 253056 15020 S 2.0 3.2 0:11.32 java 15021 adowling 20 0 15.0g 253408 15020 S 1.7 3.2 0:11.37 java 15021 adowling 20 0 15.0g 253424 15020 S 1.7 3.2 0:11.42 java 15021 adowling 20 0 15.0g 253504 15020 S 1.7 3.2 0:11.47 java

```
15021 adowling  20   0   15.0g 253520  15020 S   0.7 3.2  0:11.49 java
15021 adowling  20   0   15.0g 253632  15020 S   1.7 3.2  0:11.54 java
15021 adowling  20   0   15.0g 260292  15036 S  45.8 3.2  0:12.92 java
15021 adowling  20   0   15.0g 260424  15036 S   3.0 3.3  0:13.01 java
15021 adowling  20   0   15.0g 260428  15036 S   0.7 3.3  0:13.03 java
15021 adowling  20   0   15.0g 260432  15036 S   0.7 3.3  0:13.05 java
15021 adowling  20   0   15.0g 260524  15036 S   2.0 3.3  0:13.11 java
```

JEROMQ Test 2

Date	18/03/2020
Library	JEROMQ
Message Volume	100
Message Byte Size	100000
GC used	G1GC
MultiThreaded	NO
Completed	YES
CPU Producer	12800 adowling 20 0 14.8g 33276 11152 S 4.0 0.4 0:00.12 java 12800 adowling 20 0 15.0g 122368 14144 S 77.7 1.5 0:02.45 java 12800 adowling 20 0 15.0g 122368 14144 S 0.3 1.5 0:02.46 java 12800 adowling 20 0 15.0g 224264 15012 S 178.1 2.8 0:07.82 java 12800 adowling 20 0 15.0g 290408 15148 S 132.6 3.6 0:11.81 java
CPU Consumer	15021 adowling 20 0 15.0g 260708 15036 S 0.7 3.3 0:13.77 java 15021 adowling 20 0 15.0g 260712 15036 S 0.7 3.3 0:13.79 java 15021 adowling 20 0 15.0g 260712 15036 S 0.7 3.3 0:13.81 java 15021 adowling 20 0 15.0g 260712 15036 S 1.0 3.3 0:13.84 java 15021 adowling 20 0 15.0g 260724 15036 S 2.0 3.3 0:13.90 java 15021 adowling 20 0 15.0g 274096 15132 S 26.6 3.4 0:14.70 java 15021 adowling 20 0 15.0g 274096 15132 S 0.7 3.4 0:14.72 java

JEROMQ Test 3

Date	18/03/2020
Library	JEROMQ
Message Volume	100
Message Byte Size	1000000

GC used	G1GC
MultiThreaded	NO
Completed	YES
CPU Producer	12897 adowling 20 0 14.6g 26972 8980 S 2.0 0.3 0:00.06 **java** 12897 adowling 20 0 15.0g 117308 14164 S 77.0 1.5 0:02.37 **java** 12897 adowling 20 0 15.0g 204260 14908 S 171.5 2.6 0:07.55 **java** 12897 adowling 20 0 15.0g 486916 15132 S 150.8 6.1 0:12.09 **java**
CPU Consumer	15021 adowling 20 0 15.0g 274132 15136 S 1.0 3.4 0:15.22 **java** 15021 adowling 20 0 15.0g 274148 15148 S 1.7 3.4 0:15.27 **java** 15021 adowling 20 0 15.0g 274148 15148 S 0.7 3.4 0:15.29 **java** 15021 adowling 20 0 15.0g 274148 15148 S 0.7 3.4 0:15.31 **java** 15021 adowling 20 0 15.0g 274148 15148 S 1.0 3.4 0:15.34 **java** 15021 adowling 20 0 15.0g 593776 15192 S 56.1 7.4 0:17.03 **java** 15021 adowling 20 0 15.0g 620412 15192 S 2.3 7.7 0:17.10 **java**

JEROMQ Test 4

Date	18/03/2020
Library	JEROMQ
Message Volume	1000
Message Byte Size	10000
GC used	G1GC
MultiThreaded	NO
Completed	YES
CPU Producer	13011 adowling 20 0 15.0g 128052 14088 S 83.7 1.6 0:02.52 **java** 13011 adowling 20 0 15.0g 123712 14088 S 0.3 1.5 0:02.53 **java** 13011 adowling 20 0 15.0g 180768 14784 S 119.2 2.3 0:06.13 **java** 13011 adowling 20 0 15.0g 294032 15080 S 168.0 3.7 0:11.17 **java** 13011 adowling 20 0 15.0g 297320 15112 S 46.8 3.7 0:12.58 **java** 13011 adowling 20 0 15.0g 307184 15128 S 44.2 3.8 0:13.91 **java** 13011 adowling 20 0 15.0g 341868 15140 S 50.2 4.3 0:15.42 **java** 13011 adowling 20 0 15.0g 364880 15140 S 26.9 4.6 0:16.23 **java**
CPU Consumer	15021 adowling 20 0 15.0g 622472 15200 S 0.3 7.8 0:17.82 **java** 15021 adowling 20 0 15.0g 622472 15200 S 0.7 7.8 0:17.84 **java** 15021 adowling 20 0 15.0g 622472 15200 S 1.0 7.8 0:17.87 **java** 15021 adowling 20 0 15.0g 622472 15200 S 0.3 7.8 0:17.88 **java** 15021 adowling 20 0 15.0g 622472 15200 S 0.7 7.8 0:17.90 **java** 15021 adowling 20 0 15.0g 622472 15200 S 1.0 7.8 0:17.93 **java** 15021 adowling 20 0 15.0g 630828 15200 S 23.3 7.9 0:18.63 **java**

```
15021 adowling  20   0   15.0g 643292 15204 S  34.9  8.0   0:19.68 java
15021 adowling  20   0   15.0g 655844 15204 S  24.9  8.2   0:20.43 java
15021 adowling  20   0   15.0g 668312 15212 S  26.9  8.3   0:21.24 java
15021 adowling  20   0   15.0g 678700 15212 S  24.6  8.5   0:21.98 java
15021 adowling  20   0   15.0g 682956 15212 S   8.6  8.5   0:22.24 java
15021 adowling  20   0   15.0g 682956 15212 S   0.7  8.5   0:22.26 java
15021 adowling  20   0   15.0g 682960 15212 S   1.0  8.5   0:22.29 java
15021 adowling  20   0   15.0g 682960 15212 S   0.7  8.5   0:22.31 java
```

JEROMQ Test 5

Date	18/03/2020
Library	JEROMQ
Message Volume	1000
Message Byte Size	100000
GC used	G1GC
MultiThreaded	NO
Completed	YES
CPU Producer	13126 adowling 20 0 15.0g 110060 13792 S 54.2 1.4 0:01.63 java 13126 adowling 20 0 15.0g 119576 14128 S 29.9 1.5 0:02.53 java 13126 adowling 20 0 15.0g 119576 14128 S 0.3 1.5 0:02.54 java 13126 adowling 20 0 15.0g 203024 14904 S 171.4 2.5 0:07.70 java 13126 adowling 20 0 15.0g 312032 15120 S 134.6 3.9 0:11.75 java 13126 adowling 20 0 15.0g 444164 15176 S 51.5 5.5 0:13.30 java 13126 adowling 20 0 15.0g 452152 15184 S 48.5 5.6 0:14.76 java 13126 adowling 20 0 15.0g 466752 15196 S 45.8 5.8 0:16.14 java 13126 adowling 20 0 15.0g 467072 15196 S 23.6 5.8 0:16.85 java
CPU Consumer	15021 adowling 20 0 15.0g 685048 15236 S 0.3 8.6 0:22.83 java 15021 adowling 20 0 15.0g 685048 15236 S 0.3 8.6 0:22.84 java 15021 adowling 20 0 15.0g 685048 15236 S 1.0 8.6 0:22.87 java 15021 adowling 20 0 15.0g 685048 15236 S 0.3 8.6 0:22.88 java 15021 adowling 20 0 15.0g 685048 15236 S 1.0 8.6 0:22.91 java 15021 adowling 20 0 15.0g 734476 15236 S 22.5 9.2 0:23.59 java 15021 adowling 20 0 15.0g 814596 15236 S 23.6 10.2 0:24.30 java 15021 adowling 20 0 15.0g 903044 15236 S 32.1 11.3 0:25.27 java 15021 adowling 20 0 15.0g 997404 15236 S 22.0 12.5 0:25.93 java 15021 adowling 20 0 15.0g 997444 15236 S 20.3 12.5 0:26.54 java 15021 adowling 20 0 15.0g 997448 15236 S 3.0 12.5 0:26.63 java 15021 adowling 20 0 15.0g 997448 15236 S 0.7 12.5 0:26.65 java

JEROMQ Test 6

Date	18/03/2020
Library	JEROMQ
Message Volume	1000
Message Byte Size	1000000
GC used	G1GC
MultiThreaded	YES
Completed	YES
CPU Producer	13258 adowling 20 0 15.0g 128360 14128 S 84.1 1.6 0:02.53 java 13258 adowling 20 0 15.0g 128360 14128 S 0.3 1.6 0:02.54 java 13258 adowling 20 0 15.0g 140544 14500 S 43.5 1.8 0:03.85 java 13258 adowling 20 0 15.0g 240904 15036 S 177.1 3.0 0:09.18 java 13258 adowling 20 0 15.0g 612724 15156 S 128.6 7.7 0:13.05 java 13258 adowling 20 0 15.0g 1.2g 15264 S 76.4 15.3 0:15.35 java 13258 adowling 20 0 15.0g 1.2g 15280 S 66.1 15.4 0:17.34 java 13258 adowling 20 0 15.0g 1.2g 15292 S 64.5 15.5 0:19.28 java 13258 adowling 20 0 15.0g 1.2g 15292 S 60.1 15.5 0:21.09 java 13258 adowling 20 0 15.0g 1.2g 15292 S 46.8 15.5 0:22.50 java 13258 adowling 20 0 15.0g 1.2g 15304 S 53.5 15.5 0:24.11 java
CPU Consumer	15021 adowling 20 0 15.0g 997456 15236 S 0.7 12.5 0:27.10 java 15021 adowling 20 0 15.0g 997456 15236 S 0.7 12.5 0:27.12 java 15021 adowling 20 0 15.0g 997456 15236 S 0.3 12.5 0:27.13 java 15021 adowling 20 0 15.0g 997456 15236 S 1.0 12.5 0:27.16 java 15021 adowling 20 0 15.0g 997456 15236 S 0.7 12.5 0:27.18 java 15021 adowling 20 0 15.0g 997484 15236 S 27.6 12.5 0:28.01 java 15021 adowling 20 0 15.0g 1.1g 15240 S 46.5 14.6 0:29.41 java 15021 adowling 20 0 15.0g 1.2g 15240 S 49.8 15.4 0:30.91 java 15021 adowling 20 0 15.0g 1.2g 15248 S 50.8 15.6 0:32.44 java 15021 adowling 20 0 15.0g 1.2g 15248 S 39.2 15.7 0:33.62 java 15021 adowling 20 0 15.0g 1.2g 15248 S 43.5 15.8 0:34.93 java 15021 adowling 20 0 15.0g 1.2g 15268 S 45.2 15.9 0:36.29 java 15021 adowling 20 0 15.0g 1.2g 15268 S 2.7 15.9 0:36.37 java 15021 adowling 20 0 15.0g 1.2g 15268 S 0.7 15.9 0:36.39 java

JEROMQ - G1GC - MultiThread

JEROMQ Test 1

Date	18/03/2020

Library	JEROMQ
Message Volume	100
Message Byte Size	10000
GC used	G1GC
MultiThreaded	YES
Completed	YES
CPU Producer	13498 adowling 20 0 15.0g 108464 13732 S 39.2 1.4 0:01.18 java 13498 adowling 20 0 15.0g 141440 14112 S 60.7 1.8 0:03.00 java 13498 adowling 20 0 15.0g 244480 14776 S 155.8 3.1 0:07.69 java 13498 adowling 20 0 15.0g 334332 15152 S 153.5 4.2 0:12.31 java
CPU Consumer	15079 adowling 20 0 15.0g 281976 15028 S 0.7 3.5 0:11.62 java 15079 adowling 20 0 15.0g 281980 15028 S 1.0 3.5 0:11.65 java 15079 adowling 20 0 15.0g 281996 15028 S 0.7 3.5 0:11.67 java 15079 adowling 20 0 15.0g 282000 15028 S 0.7 3.5 0:11.69 java 15079 adowling 20 0 15.0g 282000 15028 S 0.7 3.5 0:11.71 java 15079 adowling 20 0 15.0g 284132 15028 S 18.9 3.5 0:12.28 java 15079 adowling 20 0 15.0g 285640 15036 S 24.6 3.6 0:13.02 java 15079 adowling 20 0 15.0g 285640 15036 S 1.0 3.6 0:13.05 java

JEROMQ Test 2

Date	18/03/2020
Library	JEROMQ
Message Volume	100
Message Byte Size	100000
GC used	G1GC
MultiThreaded	YES
Completed	YES
CPU Producer	13597 adowling 20 0 15.0g 128440 13956 S 71.4 1.6 0:02.15 java 13597 adowling 20 0 15.0g 132352 14168 S 12.6 1.7 0:02.53 java 13597 adowling 20 0 15.0g 145384 14460 S 33.6 1.8 0:03.54 java 13597 adowling 20 0 15.0g 228560 15064 S 188.0 2.9 0:09.20 java 13597 adowling 20 0 15.0g 310452 15176 S 115.9 3.9 0:12.69 java
CPU Consumer	13498 adowling 20 0 15.0g 108464 13732 S 39.2 1.4 0:01.18 java 13498 adowling 20 0 15.0g 141440 14112 S 60.7 1.8 0:03.00 java 13498 adowling 20 0 15.0g 244480 14776 S 155.8 3.1 0:07.69 java

	13498 adowling 20 0 15.0g 334332 15152 S 153.5 4.2 0:12.31 **java**

JEROMQ Test 3

Date	18/03/2020
Library	JEROMQ
Message Volume	100
Message Byte Size	1000000
GC used	G1GC
MultiThreaded	YES
Completed	YES
CPU Producer	13692 adowling 20 0 15.0g 136848 14096 S 90.4 1.7 0:02.72 **java** 13692 adowling 20 0 15.0g 128508 14096 S 0.3 1.6 0:02.73 **java** 13692 adowling 20 0 15.0g 190368 14748 S 109.6 2.4 0:06.04 **java** 13692 adowling 20 0 15.0g 372432 15120 S 181.7 4.7 0:11.51 **java**
CPU Consumer	13597 adowling 20 0 15.0g 128440 13956 S 71.4 1.6 0:02.15 **java** 13597 adowling 20 0 15.0g 132352 14168 S 12.6 1.7 0:02.53 **java** 13597 adowling 20 0 15.0g 145384 14460 S 33.6 1.8 0:03.54 **java** 13597 adowling 20 0 15.0g 228560 15064 S 188.0 2.9 0:09.20 **java** 13597 adowling 20 0 15.0g 310452 15176 S 115.9 3.9 0:12.69 **java**

JEROMQ Test 4

Date	18/03/2020
Library	JEROMQ
Message Volume	1000
Message Byte Size	10000
GC used	G1GC
MultiThreaded	YES
Completed	YES
CPU Producer	13789 adowling 20 0 15.0g 107076 13732 S 46.2 1.3 0:01.39 **java** 13789 adowling 20 0 15.0g 133268 14076 S 49.2 1.7 0:02.87 **java**

	13789 adowling 20 0 15.0g 128956 14460 S 29.6 1.6 0:03.76 **java** 13789 adowling 20 0 15.0g 269272 15052 S 191.4 3.4 0:09.52 **java** 13789 adowling 20 0 15.0g 352084 15112 S 101.0 4.4 0:12.56 **java** 13789 adowling 20 0 15.0g 371312 15168 S 55.1 4.6 0:14.22 **java** 13789 adowling 20 0 15.0g 395500 15180 S 44.9 4.9 0:15.57 **java** 13789 adowling 20 0 15.0g 420496 15180 S 36.9 5.3 0:16.68 **java** 13789 adowling 20 0 15.0g 443496 15192 S 26.6 5.5 0:17.48 **java**
CPU Consumer	15079 adowling 20 0 15.0g 622568 15240 S 0.3 7.8 0:18.08 **java** 15079 adowling 20 0 15.0g 622568 15240 S 1.0 7.8 0:18.11 **java** 15079 adowling 20 0 15.0g 622568 15240 S 2.7 7.8 0:18.19 **java** 15079 adowling 20 0 15.0g 622568 15240 S 1.0 7.8 0:18.22 **java** 15079 adowling 20 0 15.0g 622568 15240 S 0.3 7.8 0:18.23 **java** 15079 adowling 20 0 15.0g 622584 15240 S 6.3 7.8 0:18.42 **java** 15079 adowling 20 0 15.0g 623164 15240 S 42.2 7.8 0:19.69 **java** 15079 adowling 20 0 15.0g 623364 15240 S 27.9 7.8 0:20.53 **java** 15079 adowling 20 0 15.0g 623612 15248 S 26.2 7.8 0:21.32 **java** 15079 adowling 20 0 15.0g 623976 15248 S 22.2 7.8 0:21.99 **java** 15079 adowling 20 0 15.0g 624296 15248 S 22.9 7.8 0:22.68 **java**

JEROMQ Test 5

Date	18/03/2020
Library	JEROMQ
Message Volume	1000
Message Byte Size	100000
GC used	G1GC
MultiThreaded	YES
Completed	YES
CPU Producer	13889 adowling 20 0 15.0g 133952 14148 S 105.0 1.7 0:03.16 **java** 13889 adowling 20 0 15.0g 190556 14756 S 153.5 2.4 0:07.78 **java** 13889 adowling 20 0 15.0g 275076 15164 S 138.9 3.4 0:11.96 **java** 13889 adowling 20 0 15.0g 442616 15212 S 63.8 5.5 0:13.88 **java** 13889 adowling 20 0 15.0g 474940 15216 S 44.9 5.9 0:15.23 **java** 13889 adowling 20 0 15.0g 511656 15228 S 49.5 6.4 0:16.72 **java** 13889 adowling 20 0 15.0g 643364 15228 S 31.6 8.0 0:17.67 **java**
CPU Consumer	15079 adowling 20 0 15.0g 624300 15248 S 0.7 7.8 0:23.03 **java** 15079 adowling 20 0 15.0g 624300 15248 S 0.7 7.8 0:23.05 **java** 15079 adowling 20 0 15.0g 624300 15248 S 0.7 7.8 0:23.07 **java** 15079 adowling 20 0 15.0g 624300 15248 S 0.7 7.8 0:23.09 **java** 15079 adowling 20 0 15.0g 624304 15248 S 5.3 7.8 0:23.25 **java** 15079 adowling 20 0 15.0g 624552 15248 S 31.9 7.8 0:24.21 **java** 15079 adowling 20 0 15.0g 643384 15248 S 31.6 8.0 0:25.16 **java** 15079 adowling 20 0 15.0g 655424 15248 S 29.9 8.2 0:26.06 **java**

	15079 adowling 20 0 15.0g 655696 15248 S 17.6 8.2 0:26.59 **java**
	15079 adowling 20 0 15.0g 655744 15248 S 18.9 8.2 0:27.16 **java**

JEROMQ Test 6

Date	18/03/2020
Library	JEROMQ
Message Volume	1000
Message Byte Size	1000000
GC used	G1GC
MultiThreaded	YES
Completed	YES
CPU Producer	13990 adowling 20 0 15.0g 118712 14136 S 77.4 1.5 0:02.33 **java** 13990 adowling 20 0 15.0g 162264 14576 S 70.3 2.0 0:04.46 **java** 13990 adowling 20 0 15.0g 311304 15012 S 191.3 3.9 0:10.20 **java** 13990 adowling 20 0 15.0g 740472 15160 S 90.7 9.2 0:12.93 **java** 13990 adowling 20 0 15.0g 1.1g 15188 S 73.8 14.7 0:15.15 **java** 13990 adowling 20 0 15.0g 1.2g 15260 S 68.1 15.4 0:17.20 **java** 13990 adowling 20 0 15.0g 1.2g 15284 S 62.5 15.4 0:19.08 **java** 13990 adowling 20 0 15.0g 1.2g 15284 S 55.8 15.4 0:20.76 **java** 13990 adowling 20 0 15.0g 1.2g 15288 S 50.8 15.5 0:22.29 **java**
CPU Consumer	13889 adowling 20 0 15.0g 133952 14148 S 105.0 1.7 0:03.16 **java** 13889 adowling 20 0 15.0g 190556 14756 S 153.5 2.4 0:07.78 **java** 13889 adowling 20 0 15.0g 275076 15164 S 138.9 3.4 0:11.96 **java** 13889 adowling 20 0 15.0g 442616 15212 S 63.8 5.5 0:13.88 **java** 13889 adowling 20 0 15.0g 474940 15216 S 44.9 5.9 0:15.23 **java** 13889 adowling 20 0 15.0g 511656 15228 S 49.5 6.4 0:16.72 **java** 13889 adowling 20 0 15.0g 643364 15228 S 31.6 8.0 0:17.67 **java**