Dissertation Testing - RABBITMQ CLIENT

RABBITMQ CLIENT - EpsilonGC - SingleThread

RABBITMQ CLIENT Test 1

Date	17/03/2020
Library	RABBITMQ CLIENT
Message Volume	100
Message Byte Size	10000
GC used	EpsilonGC
MultiThreaded	NO
Completed	YES
CPU Producer	21964 adowling 20 0 14.5g 580424 14516 S 174.2 7.2 0:11.60 **java** 21964 adowling 20 0 14.5g 676232 14608 S 106.3 8.4 0:14.79 **java** 21964 adowling 20 0 14.5g 676192 14608 S 3.0 8.4 0:14.88 **java**
CPU Consumer	15528 adowling 20 0 14.5g 605452 14512 S 0.3 7.6 0:11.62 **java** 15528 adowling 20 0 14.5g 621816 14536 S 39.9 7.8 0:12.82 **java** 15528 adowling 20 0 14.5g 621860 14536 S 1.0 7.8 0:12.85 **java**

RABBITMQ CLIENT Test 2

Date	17/03/2020
Library	RABBITMQ CLIENT
Message Volume	100
Message Byte Size	100000
GC used	EpsilonGC
MultiThreaded	NO
Completed	YES

CPU Producer	22086 adowling 20 0 14.2g 79356 12580 S 16.3 1.0 0:00.49 **java** 22086 adowling 20 0 14.3g 178224 13688 S 66.8 2.2 0:02.50 **java** 22086 adowling 20 0 14.4g 461568 14496 S 182.4 5.8 0:07.99 **java** 22086 adowling 20 0 14.5g 718032 14596 S 138.5 9.0 0:12.16 **java** 22086 adowling 20 0 14.5g 744616 14596 S 39.2 9.3 0:13.34 **java** 22086 adowling 20 0 14.5g 744616 14596 S 0.3 9.3 0:13.35 **java**
CPU Consumer	15528 adowling 20 0 14.5g 621860 14536 S 0.3 7.8 0:12.96 **java** 15528 adowling 20 0 14.5g 696828 14632 S 27.9 8.7 0:13.80 **java**

RABBITMQ CLIENT Test 3

Date	17/03/2020
Library	RABBITMQ CLIENT
Message Volume	100
Message Byte Size	1000000
GC used	EpsilonGC
MultiThreaded	NO
Completed	YES
CPU Producer	22240 adowling 20 0 14.3g 159128 13652 S 77.2 2.0 0:02.33 **java** 22240 adowling 20 0 14.3g 159128 13652 S 0.3 2.0 0:02.34 **java** 22240 adowling 20 0 14.3g 211428 13996 S 30.9 2.6 0:03.27 **java** 22240 adowling 20 0 14.5g 516164 14500 S 183.3 6.4 0:08.77 **java** 22240 adowling 20 0 14.5g 1.1g 14612 S 142.2 13.9 0:13.05 **java** 22240 adowling 20 0 14.5g 1.3g 14612 S 56.8 17.4 0:14.76 **java** 22240 adowling 20 0 14.5g 1.3g 14612 S 0.3 17.4 0:14.77 **java**
CPU Consumer	15528 adowling 20 0 14.5g 696860 14632 S 0.3 8.7 0:13.98 **java** 15528 adowling 20 0 14.5g 696860 14632 S 0.3 8.7 0:13.99 **java** 15528 adowling 20 0 14.5g 906384 14632 S 20.6 11.3 0:14.61 **java** 15528 adowling 20 0 14.5g 1.4g 14636 S 68.1 18.8 0:16.66 **java** 15528 adowling 20 0 14.5g 1.4g 14636 S 0.3 18.8 0:16.67 **java**

RABBITMQ CLIENT Test 4

Date	16/03/2020

Library	RABBITMQ CLIENT
Message Volume	1000
Message Byte Size	10000
GC used	EpsilonGC
MultiThreaded	NO
Completed	YES
CPU Producer	22354 adowling 20 0 14.3g 171340 13592 S 80.1 2.1 0:02.41 java 22354 adowling 20 0 14.3g 169316 13592 S 0.3 2.1 0:02.42 java 22354 adowling 20 0 14.3g 425140 14260 S 160.8 5.3 0:07.26 java 22354 adowling 20 0 14.5g 654184 14572 S 157.8 8.2 0:12.01 java 22354 adowling 20 0 14.5g 681388 14604 S 48.5 8.5 0:13.47 java 22354 adowling 20 0 14.5g 704764 14640 S 44.9 8.8 0:14.82 java 22354 adowling 20 0 14.5g 728108 14656 S 29.6 9.1 0:15.71 java 22354 adowling 20 0 14.5g 750976 14656 S 23.3 9.4 0:16.41 java 22354 adowling 20 0 14.5g 799096 14672 S 46.5 10.0 0:17.81 java 22354 adowling 20 0 14.5g 779128 14672 S 0.7 9.7 0:17.83 java 22354 adowling 20 0 14.5g 779128 14672 S 0.3 9.7 0:17.84 java
CPU Consumer	15528 adowling 20 0 14.5g 1.4g 14636 S 0.3 18.8 0:16.75 java 15528 adowling 20 0 14.5g 1.4g 14636 S 1.3 18.7 0:16.79 java 15528 adowling 20 0 14.5g 1.4g 14636 S 44.9 18.9 0:18.14 java 15528 adowling 20 0 14.5g 1.5g 14636 S 27.6 19.2 0:18.97 java 15528 adowling 20 0 14.5g 1.5g 14636 S 26.3 19.4 0:19.76 java 15528 adowling 20 0 14.5g 1.5g 14644 S 24.3 19.7 0:20.49 java 15528 adowling 20 0 14.5g 1.5g 14644 S 20.9 19.8 0:21.12 java

RABBITMQ CLIENT Test 5

Date	17/03/2020
Library	RABBITMQ CLIENT
Message Volume	1000
Message Byte Size	100000
GC used	EpsilonGC
MultiThreaded	NO
Completed	YES
CPU Producer	22466 adowling 20 0 14.3g 179796 13492 S 84.7 2.2 0:02.55 java 22466 adowling 20 0 14.3g 176524 13492 S 0.3 2.2 0:02.56 java

	22466 adowling 20 0 14.3g 435716 14320 S 149.3 5.4 0:07.07 **java** 22466 adowling 20 0 14.5g 701948 14580 S 148.5 8.8 0:11.54 **java** 22466 adowling 20 0 14.5g 880420 14624 S 46.2 11.0 0:12.93 **java** 22466 adowling 20 0 14.5g 1.0g 14640 S 48.3 13.3 0:14.38 **java** 22466 adowling 20 0 14.5g 1.2g 14652 S 37.5 15.6 0:15.51 **java** 22466 adowling 20 0 14.5g 1.4g 14652 S 26.9 17.9 0:16.32 **java** 22466 adowling 20 0 14.5g 1.5g 14660 S 53.2 19.6 0:17.92 **java** 22466 adowling 20 0 14.5g 1.5g 14660 S 0.3 19.4 0:17.93 **java**
CPU Consumer	15528 adowling 20 0 14.5g 1.5g 14644 S 0.3 19.9 0:21.22 **java** 15528 adowling 20 0 14.5g 1.5g 14644 S 0.3 19.9 0:21.23 **java** 15528 adowling 20 0 14.5g 1.6g 14644 S 24.8 21.2 0:21.98 **java** 15528 adowling 20 0 14.5g 1.8g 14644 S 31.9 23.1 0:22.94 **java** 15528 adowling 20 0 14.5g 1.9g 14644 S 33.6 25.0 0:23.95 **java** 15528 adowling 20 0 14.5g 2.1g 14644 S 25.9 26.9 0:24.73 **java** 15528 adowling 20 0 14.5g 2.2g 14644 S 26.6 28.7 0:25.53 **java** 15528 adowling 20 0 14.5g 2.2g 14644 S 2.3 28.9 0:25.60 **java**

RABBITMQ CLIENT Test 6

Date	17/03/2020
Library	RABBITMQ CLIENT
Message Volume	1000
Message Byte Size	1000000
GC used	EpsilonGC
MultiThreaded	NO
Completed	YES
Error on Producer & Consumer	Java HotSpot(TM) 64-Bit Server VM warning: INFO: os::commit_memory(0x00000004c8000000, 134217728, 0) failed; error='Not enough space' (errno=12) #
CPU Producer	22580 adowling 20 0 14.2g 38844 12560 S 13.3 0.5 0:00.40 **java** 22580 adowling 20 0 14.3g 159796 13620 S 65.4 2.0 0:02.37 **java** 22580 adowling 20 0 14.3g 158672 13620 S 0.3 2.0 0:02.38 **java** 22580 adowling 20 0 14.5g 462692 14476 S 181.3 5.8 0:07.82 **java** 22580 adowling 20 0 14.5g 1.0g 14580 S 133.9 13.0 0:11.85 **java** 22580 adowling 20 0 14.5g 1.8g 14620 S 70.8 24.0 0:13.98 **java** 22580 adowling 20 0 14.5g 2.7g 14636 S 84.1 35.4 0:16.51 **java** 22580 adowling 20 0 14.5g 3.6g 14640 S 67.0 47.1 0:18.52 **java** 22580 adowling 20 0 14.5g 4.5g 14652 S 68.4 58.3 0:20.58 **java** 22580 adowling 20 0 14.5g 5.3g 14652 S 63.1 69.2 0:22.48 **java** 22580 adowling 20 0 14.5g 6.1g 14652 S 59.1 80.2 0:24.26 **java**

	22580 adowling 20 0 14.5g 6.9g 14652 S 61.8 90.9 0:26.12 **java**
CPU Consumer	15528 adowling 20 0 14.5g 2.2g 14644 S 0.3 28.9 0:25.68 **java** 15528 adowling 20 0 14.5g 2.2g 14644 S 0.7 28.9 0:25.70 **java** 15528 adowling 20 0 14.5g 2.7g 14644 S 43.2 35.6 0:27.00 **java** 15528 adowling 20 0 14.5g 3.6g 14644 S 73.8 47.2 0:29.22 **java** 15528 adowling 20 0 14.5g 4.5g 14644 S 80.1 59.4 0:31.63 **java** 15528 adowling 20 0 14.5g 5.4g 14644 S 85.0 71.0 0:34.19 **java** 15528 adowling 20 0 14.5g 6.1g 14644 S 100.7 80.1 0:37.21 **java** 15528 adowling 20 0 14.5g 6.8g 14644 S 107.0 88.6 0:40.44 **java** 15528 adowling 20 0 14.4g 7.3g 2656 S 89.2 95.2 0:43.17 **java**

RABBITMQ CLIENT - EpsilonGC - MultiThread

RABBITMQ CLIENT Test 1

Date	17/03/2020
Library	RABBITMQ CLIENT
Message Volume	100
Message Byte Size	10000
GC used	EpsilonGC
MultiThreaded	YES
Completed	YES
CPU Producer	22759 adowling 20 0 14.3g 139948 13436 S 68.4 1.7 0:02.06 **java** 22759 adowling 20 0 14.3g 155060 13696 S 12.3 1.9 0:02.43 **java** 22759 adowling 20 0 14.3g 207932 13960 S 29.9 2.6 0:03.33 **java** 22759 adowling 20 0 14.5g 501676 14508 S 183.7 6.3 0:08.86 **java** 22759 adowling 20 0 14.5g 663656 14616 S 120.3 8.3 0:12.48 **java** 22759 adowling 20 0 14.5g 657668 14616 S 14.3 8.2 0:12.91 **java** 22759 adowling 20 0 14.5g 657668 14616 S 0.3 8.2 0:12.92 **java**
CPU Consumer	15573 adowling 20 0 14.5g 1.6g 14576 S 0.3 20.9 0:15.98 **java** 15573 adowling 20 0 14.5g 1.6g 14576 S 17.9 21.0 0:16.52 **java** 15573 adowling 20 0 14.5g 1.6g 14576 S 0.3 21.0 0:16.53 **java**

RABBITMQ CLIENT Test 2

Date	17/03/2020
Library	RABBITMQ CLIENT
Message Volume	100
Message Byte Size	100000
GC used	EpsilonGC
MultiThreaded	YES
Completed	YES
CPU Producer	22872 adowling 20 0 14.3g 161796 13612 S 80.7 2.0 0:02.43 **java** 22872 adowling 20 0 14.3g 161828 13640 S 1.0 2.0 0:02.46 **java** 22872 adowling 20 0 14.3g 268232 14004 S 60.5 3.3 0:04.28 **java** 22872 adowling 20 0 14.5g 600028 14480 S 186.4 7.5 0:09.91 **java** 22872 adowling 20 0 14.5g 757192 14584 S 105.3 9.5 0:13.07 **java** 22872 adowling 20 0 14.5g 741256 14584 S 0.7 9.3 0:13.09 **java** 22872 adowling 20 0 14.5g 741516 14584 S 0.3 9.3 0:13.10 **java**
CPU Consumer	15573 adowling 20 0 14.5g 1.6g 14576 S 0.3 21.0 0:16.64 **java** 15573 adowling 20 0 14.5g 1.7g 14584 S 24.6 21.9 0:17.38 **java** 15573 adowling 20 0 14.5g 1.7g 14584 S 0.3 21.9 0:17.39 **java**

RABBITMQ CLIENT Test 3

Date	17/03/2020
Library	RABBITMQ CLIENT
Message Volume	100
Message Byte Size	1000000
GC used	EpsilonGC
MultiThreaded	YES
Completed	YES
CPU Producer	22980 adowling 20 0 14.3g 157624 13656 S 76.1 2.0 0:02.29 **java** 22980 adowling 20 0 14.3g 428924 14304 S 157.0 5.4 0:07.03 **java** 22980 adowling 20 0 14.5g 843944 14568 S 160.1 10.5 0:11.85 **java** 22980 adowling 20 0 14.5g 1.3g 14584 S 85.0 17.5 0:14.41 **java** 22980 adowling 20 0 14.5g 1.3g 14584 S 0.7 17.5 0:14.43 **java** 22980 adowling 20 0 14.5g 1.3g 14584 S 0.3 17.5 0:14.44 **java**
CPU Consumer	15573 adowling 20 0 14.5g 1.7g 14584 S 0.3 21.9 0:17.51 **java**

15573 adowling 20 0 14.5g 1.7g 14584 S 0.3 21.9 0:17.52 **java** 15573 adowling 20 0 14.5g 1.7g 14584 S 0.3 21.9 0:17.53 **java** 15573 adowling 20 0 14.5g 1.8g 14584 S 9.3 23.1 0:17.81 **java** 15573 adowling 20 0 14.5g 2.4g 14672 S 73.4 31.9 0:20.02 **java**	

RABBITMQ CLIENT Test 4

Date	17/03/2020
Library	RABBITMQ CLIENT
Message Volume	1000
Message Byte Size	10000
GC used	EpsilonGC
MultiThreaded	YES
Completed	YES
CPU Producer	23065 adowling 20 0 14.3g 166144 13680 S 0.3 2.1 0:02.40 **java** 23065 adowling 20 0 14.3g 355868 14224 S 117.9 4.4 0:05.95 **java** 23065 adowling 20 0 14.5g 646492 14600 S 168.4 8.1 0:11.02 **java** 23065 adowling 20 0 14.5g 673640 14652 S 44.0 8.4 0:12.34 **java** 23065 adowling 20 0 14.5g 697588 14668 S 41.9 8.7 0:13.60 **java** 23065 adowling 20 0 14.5g 722964 14680 S 34.2 9.0 0:14.63 **java** 23065 adowling 20 0 14.5g 749796 14680 S 21.3 9.4 0:15.27 **java** 23065 adowling 20 0 14.5g 796684 14688 S 44.5 9.9 0:16.61 **java** 23065 adowling 20 0 14.5g 796684 14688 S 0.3 9.9 0:16.62 **java**
CPU Consumer	15573 adowling 20 0 14.5g 2.4g 14672 S 0.3 31.9 0:20.10 **java** 15573 adowling 20 0 14.5g 2.4g 14672 S 10.7 31.9 0:20.42 **java** 15573 adowling 20 0 14.5g 2.5g 14672 S 35.5 32.2 0:21.49 **java** 15573 adowling 20 0 14.5g 2.5g 14672 S 23.6 32.4 0:22.20 **java** 15573 adowling 20 0 14.5g 2.5g 14680 S 18.9 32.6 0:22.77 **java** 15573 adowling 20 0 14.5g 2.5g 14680 S 31.9 32.9 0:23.73 **java** 15573 adowling 20 0 14.5g 2.5g 14680 S 17.9 33.0 0:24.27 **java**

RABBITMQ CLIENT Test 5

Date	17/03/2020

Library	RABBITMQ CLIENT
Message Volume	1000
Message Byte Size	100000
GC used	EpsilonGC
MultiThreaded	YES
Completed	YES
CPU Producer	23159 adowling 20 0 14.3g 175144 13908 S 181.2 2.2 0:02.58 java 23159 adowling 20 0 14.5g 518484 14484 S 188.0 6.5 0:08.24 java 23159 adowling 20 0 14.5g 734296 14588 S 114.7 9.2 0:11.68 java 23159 adowling 20 0 14.5g 920408 14644 S 51.5 11.5 0:13.23 java 23159 adowling 20 0 14.5g 1.1g 14660 S 41.5 13.8 0:14.48 java 23159 adowling 20 0 14.5g 1.2g 14660 S 31.6 16.1 0:15.43 java 23159 adowling 20 0 14.5g 1.4g 14668 S 35.2 18.4 0:16.49 java 23159 adowling 20 0 14.5g 1.5g 14668 S 42.2 19.2 0:17.76 java 23159 adowling 20 0 14.5g 1.5g 14668 S 0.3 19.2 0:17.77 java
CPU Consumer	15573 adowling 20 0 14.5g 2.6g 14680 S 11.0 33.9 0:24.66 java 15573 adowling 20 0 14.5g 2.7g 14680 S 33.0 35.8 0:25.65 java 15573 adowling 20 0 14.5g 2.9g 14680 S 29.2 37.7 0:26.53 java 15573 adowling 20 0 14.5g 3.0g 14680 S 23.6 39.6 0:27.24 java 15573 adowling 20 0 14.5g 3.2g 14680 S 23.6 41.5 0:27.95 java 15573 adowling 20 0 14.5g 3.2g 14680 S 6.6 42.1 0:28.15 java 15573 adowling 20 0 14.5g 3.2g 14680 S 0.3 42.1 0:28.16 java

RABBITMQ CLIENT Test 6

Date	17/03/2020
Library	RABBITMQ CLIENT
Message Volume	1000
Message Byte Size	1000000
GC used	EpsilonGC
MultiThreaded	YES
Completed	YES
Error on Producer & Consumer	Java HotSpot(TM) 64-Bit Server VM warning: INFO: os::commit_memory(0x00000006c8000000, 134217728, 0) failed; error='Not enough space' (errno=12)

CPU Producer	23317 adowling 20 0 14.3g 179756 13624 S 85.7 2.2 0:02.58 java 23317 adowling 20 0 14.3g 303852 14104 S 81.4 3.8 0:05.03 java 23317 adowling 20 0 14.5g 594520 14492 S 166.8 7.4 0:10.05 java 23317 adowling 20 0 14.5g 654988 14496 S 36.9 8.2 0:11.16 java 23374 adowling 20 0 14.2g 26536 12180 S 5.0 0.3 0:00.15 java 23374 adowling 20 0 14.3g 166460 13684 S 68.8 2.1 0:02.22 java 23374 adowling 20 0 14.4g 458588 14496 S 178.1 5.7 0:07.58 java 23374 adowling 20 0 14.5g 994.5m 14596 S 144.0 12.7 0:11.90 java 23374 adowling 20 0 14.5g 1.8g 14600 S 71.8 23.8 0:14.06 java 23374 adowling 20 0 14.5g 2.6g 14640 S 73.4 34.6 0:16.27 java 23374 adowling 20 0 14.5g 3.5g 14660 S 79.1 45.7 0:18.65 java 23374 adowling 20 0 14.5g 4.3g 14672 S 70.4 56.9 0:20.77 java 23374 adowling 20 0 14.5g 5.2g 14672 S 68.4 68.7 0:22.83 java 23374 adowling 20 0 14.5g 6.2g 14672 S 64.5 81.4 0:24.77 java 23374 adowling 20 0 14.5g 7.1g 14672 S 64.8 92.7 0:26.72 java
CPU Consumer	15573 adowling 20 0 14.5g 3.2g 14680 S 0.3 42.1 0:28.34 java 15573 adowling 20 0 14.5g 3.8g 14680 S 47.2 49.2 0:29.76 java 15573 adowling 20 0 14.5g 4.7g 14680 S 84.1 61.0 0:32.29 java 15573 adowling 20 0 14.5g 5.5g 14680 S 75.0 72.4 0:34.54 java 15573 adowling 20 0 14.5g 6.4g 14680 S 76.7 84.2 0:36.85 java 15573 adowling 20 0 14.5g 7.2g 14680 S 87.1 94.6 0:39.48 java

RABBITMQ CLIENT - G1GC - SingleThread

RABBITMQ CLIENT Test 1

Date	17/03/2020
Library	RABBITMQ CLIENT
Message Volume	100
Message Byte Size	10000
GC used	G1GC
MultiThreaded	NO
Completed	YES
CPU Producer	23543 adowling 20 0 14.2g 97436 13224 S 40.5 1.2 0:01.22 java 23543 adowling 20 0 14.3g 154424 13700 S 48.2 1.9 0:02.67 java 23543 adowling 20 0 14.3g 162152 13928 S 5.6 2.0 0:02.84 java 23543 adowling 20 0 14.3g 462860 14408 S 176.7 5.8 0:08.16 java

	23543 adowling 20 0 14.5g 642068 14604 S 138.9 8.0 0:12.34 **java** 23543 adowling 20 0 14.5g 658004 14608 S 33.3 8.2 0:13.34 **java** 23543 adowling 20 0 14.5g 658004 14608 S 0.3 8.2 0:13.35 **java**
CPU Consumer	15632 adowling 20 0 15.0g 1.7g 15176 S 0.3 22.4 0:19.03 **java** 15632 adowling 20 0 15.0g 1.7g 15176 S 0.7 22.4 0:19.05 **java** 15632 adowling 20 0 15.0g 1.7g 15264 S 23.6 22.4 0:19.76 **java**

RABBITMQ CLIENT Test 2

Date	17/03/2020
Library	RABBITMQ CLIENT
Message Volume	100
Message Byte Size	100000
GC used	G1GC
MultiThreaded	NO
Completed	YES
CPU Producer	23859 adowling 20 0 14.3g 142076 13456 S 72.1 1.8 0:02.17 **java** 23859 adowling 20 0 14.3g 156728 13656 S 12.7 2.0 0:02.55 **java** 23859 adowling 20 0 14.3g 233488 13964 S 42.4 2.9 0:03.83 **java** 23859 adowling 20 0 14.5g 522900 14484 S 181.7 6.5 0:09.28 **java** 23859 adowling 20 0 14.5g 728496 14604 S 114.9 9.1 0:12.75 **java** 23859 adowling 20 0 14.5g 733508 14604 S 46.5 9.2 0:14.15 **java** 23859 adowling 20 0 14.5g 733508 14604 S 0.3 9.2 0:14.16 **java**
CPU Consumer	15632 adowling 20 0 15.0g 1.7g 15264 S 0.3 22.4 0:20.32 **java** 15632 adowling 20 0 15.0g 1.7g 15264 S 0.3 22.4 0:20.33 **java** 15632 adowling 20 0 15.0g 1.7g 15268 S 20.3 22.4 0:20.94 **java**

RABBITMQ CLIENT Test 3

Date	17/03/2020
Library	RABBITMQ CLIENT
Message Volume	100
Message Byte Size	1000000

GC used	G1GC
MultiThreaded	NO
Completed	YES
CPU Producer	23957 adowling 20 0 14.3g 183960 13900 S 181.2 2.3 0:02.92 java 23957 adowling 20 0 14.5g 508340 14480 S 182.4 6.3 0:08.41 java 23957 adowling 20 0 14.5g 1.1g 14596 S 126.3 14.3 0:12.20 java 23957 adowling 20 0 14.5g 1.3g 14612 S 71.4 17.4 0:14.35 java 23957 adowling 20 0 14.5g 1.3g 14612 S 0.3 17.4 0:14.36 java 23957 adowling 20 0 14.5g 1.3g 14612 S 0.3 17.4 0:14.37 java
CPU Consumer	15632 adowling 20 0 15.0g 1.7g 15268 S 25.6 22.5 0:21.84 java 15632 adowling 20 0 15.0g 2.0g 15268 S 49.5 25.8 0:23.33 java

RABBITMQ CLIENT Test 4

Date	17/03/2020
Library	RABBITMQ CLIENT
Message Volume	1000
Message Byte Size	10000
GC used	G1GC
MultiThreaded	NO
Completed	YES
CPU Producer	24050 adowling 20 0 14.3g 339608 14112 S 193.8 4.2 0:06.08 java 24050 adowling 20 0 14.5g 648780 14500 S 175.7 8.1 0:11.37 java 24050 adowling 20 0 14.5g 683112 14616 S 51.2 8.5 0:12.91 java 24050 adowling 20 0 14.5g 707152 14636 S 44.0 8.8 0:14.23 java 24050 adowling 20 0 14.5g 734960 14648 S 34.2 9.2 0:15.26 java 24050 adowling 20 0 14.5g 759736 14648 S 20.6 9.5 0:15.88 java 24050 adowling 20 0 14.5g 781316 14656 S 29.2 9.8 0:16.76 java 24050 adowling 20 0 14.5g 781316 14656 S 0.3 9.8 0:16.77 java
CPU Consumer	15632 adowling 20 0 15.0g 2.0g 15268 S 0.3 25.8 0:23.50 java 15632 adowling 20 0 15.0g 2.0g 15268 S 2.7 25.8 0:23.58 java 15632 adowling 20 0 15.0g 2.0g 15268 S 28.5 26.1 0:24.44 java 15632 adowling 20 0 15.0g 2.0g 15276 S 20.3 26.2 0:25.05 java 15632 adowling 20 0 15.0g 2.0g 15276 S 30.8 26.2 0:25.98 java 15632 adowling 20 0 15.0g 2.0g 15276 S 25.6 26.2 0:26.75 java

| | 15632 adowling 20   0   15.0g   2.0g 15276 S   8.3 26.2   0:27.00 java |
| | |

RABBITMQ CLIENT Test 5

Date	17/03/2020
Library	RABBITMQ CLIENT
Message Volume	1000
Message Byte Size	100000
GC used	G1GC
MultiThreaded	NO
Completed	YES
CPU Producer	24158 adowling 20 0 14.3g 431748 14320 S 157.1 5.4 0:07.33 java 24158 adowling 20 0 14.5g 696904 14592 S 155.8 8.7 0:12.02 java 24158 adowling 20 0 14.5g 862880 14620 S 45.5 10.8 0:13.39 java 24158 adowling 20 0 14.5g 1.0g 14656 S 52.5 12.9 0:14.97 java 24158 adowling 20 0 14.5g 1.2g 14668 S 44.2 15.1 0:16.30 java 24158 adowling 20 0 14.5g 1.3g 14668 S 31.2 17.2 0:17.24 java 24158 adowling 20 0 14.5g 1.5g 14668 S 51.5 19.2 0:18.79 java 24158 adowling 20 0 14.5g 1.5g 14668 S 0.3 19.2 0:18.80 java
CPU Consumer	15632 adowling 20 0 15.0g 2.0g 15276 S 0.3 26.2 0:27.24 java 15632 adowling 20 0 15.0g 2.0g 15276 S 7.6 26.2 0:27.47 java 15632 adowling 20 0 15.0g 2.0g 15276 S 38.9 26.7 0:28.64 java 15632 adowling 20 0 15.0g 2.0g 15276 S 24.6 26.7 0:29.38 java 15632 adowling 20 0 15.0g 2.0g 15276 S 24.9 26.8 0:30.13 java 15632 adowling 20 0 15.0g 2.0g 15276 S 21.9 26.8 0:30.79 java 15632 adowling 20 0 15.0g 2.0g 15276 S 27.9 26.8 0:31.63 java

RABBITMQ CLIENT Test 6

Date	17/03/2020
Library	RABBITMQ CLIENT
Message Volume	1000
Message Byte Size	1000000
GC used	G1GC

MultiThreaded	NO
Completed	YES
CPU Producer	24266 adowling 20 0 14.3g 253136 13968 S 193.8 3.2 0:03.75 **java** 24266 adowling 20 0 14.5g 594016 14500 S 187.4 7.4 0:09.39 **java** 24266 adowling 20 0 14.5g 1.3g 14596 S 95.0 17.3 0:12.25 java 24266 adowling 20 0 14.5g 2.1g 14620 S 68.1 27.9 0:14.30 **java** 24266 adowling 20 0 14.5g 2.9g 14632 S 72.8 38.4 0:16.49 **java** 24266 adowling 20 0 14.5g 3.7g 14652 S 68.1 48.7 0:18.54 **java** 24266 adowling 20 0 14.5g 4.5g 14664 S 73.1 59.1 0:20.74 **java** 24266 adowling 20 0 14.5g 5.3g 14664 S 65.7 70.0 0:22.71 **java** 24266 adowling 20 0 14.5g 6.2g 14664 S 62.3 81.5 0:24.59 **java** 24266 adowling 20 0 14.5g 7.1g 14664 S 62.5 92.3 0:26.47 **java**
CPU Consumer	15632 adowling 20 0 15.0g 2.0g 15276 S 0.3 26.8 0:31.80 **java** 15632 adowling 20 0 15.0g 2.0g 15276 S 64.8 26.8 0:33.75 **java** 15632 adowling 20 0 15.0g 2.0g 15276 S 55.8 26.8 0:35.43 **java** 15632 adowling 20 0 15.0g 2.0g 15276 S 44.5 26.8 0:36.77 **java** 15632 adowling 20 0 15.0g 2.1g 15276 S 55.8 27.0 0:38.45 **java** 15632 adowling 20 0 15.0g 2.1g 15276 S 49.2 27.0 0:39.93 **java** 15632 adowling 20 0 15.0g 2.1g 15276 S 51.3 27.0 0:41.47 **java** 15632 adowling 20 0 15.0g 2.1g 15292 S 52.6 27.0 0:43.06 **java** 15632 adowling 20 0 15.0g 2.1g 15292 S 42.9 27.0 0:44.35 **java** 15632 adowling 20 0 15.0g 2.1g 15292 S 7.3 27.0 0:44.57 **java** 15632 adowling 20 0 15.0g 2.1g 15292 S 0.7 27.0 0:44.59 **java**

RABBITMQ CLIENT - G1GC - MultiThread

RABBITMQ CLIENT Test 1

Date	17/03/2020
Library	RABBITMQ CLIENT
Message Volume	100
Message Byte Size	10000
GC used	G1GC
MultiThreaded	YES
Completed	YES
CPU Producer	24424 adowling 20 0 14.3g 154160 13684 S 85.1 1.9 0:02.57 **java** 24424 adowling 20 0 14.3g 152760 13688 S 0.3 1.9 0:02.58 **java** 24424 adowling 20 0 14.3g 292344 14216 S 84.7 3.7 0:05.13 **java**

	24424 adowling 20 0 14.5g 603572 14504 S 182.1 7.5 0:10.61 **java** 24424 adowling 20 0 14.5g 664888 14600 S 81.1 8.3 0:13.05 **java** 24424 adowling 20 0 14.5g 657792 14600 S 0.3 8.2 0:13.06 **java**
CPU Consumer	15679 adowling 20 0 15.0g 270288 15040 S 0.7 3.4 0:12.68 **java** 15679 adowling 20 0 15.0g 270288 15040 S 0.3 3.4 0:12.69 **java** 15679 adowling 20 0 15.0g 274060 15060 S 41.9 3.4 0:13.95 **java**

RABBITMQ CLIENT Test 2

Date	17/03/2020
Library	RABBITMQ CLIENT
Message Volume	100
Message Byte Size	100000
GC used	G1GC
MultiThreaded	YES
Completed	YES
CPU Producer	24541 adowling 20 0 14.3g 403352 14308 S 137.5 5.0 0:06.43 java 24541 adowling 20 0 14.5g 675164 14612 S 156.1 8.4 0:11.13 java 24541 adowling 20 0 14.5g 745888 14628 S 60.1 9.3 0:12.94 java 24541 adowling 20 0 14.5g 745888 14628 S 0.3 9.3 0:12.95 java 24541 adowling 20 0 14.5g 745888 14628 S 0.3 9.3 0:12.96 java
CPU Consumer	15679 adowling 20 0 15.0g 263828 15156 S 17.6 3.3 0:14.62 **java** 15679 adowling 20 0 15.0g 274392 15156 S 7.3 3.4 0:14.84 **java** 15679 adowling 20 0 15.0g 274392 15156 S 0.3 3.4 0:14.85 **java**

RABBITMQ CLIENT Test 3

Date	17/03/2020
Library	RABBITMQ CLIENT
Message Volume	100
Message Byte Size	1000000
GC used	G1GC
MultiThreaded	YES

Completed	YES
CPU Producer	24636 adowling 20 0 14.3g 428576 14276 S 149.2 5.4 0:06.81 java 24636 adowling 20 0 14.5g 920384 14576 S 150.2 11.5 0:11.33 java 24636 adowling 20 0 14.5g 1.3g 14596 S 67.4 17.6 0:13.36 java 24636 adowling 20 0 14.5g 1.3g 14596 S 0.3 17.4 0:13.37 java
CPU Consumer	15679 adowling 20 0 15.0g 274416 15156 S 6.2 3.4 0:14.96 java 15679 adowling 20 0 15.0g 395488 15156 S 18.3 4.9 0:15.51 java 15679 adowling 20 0 15.0g 575220 15172 S 50.5 7.2 0:17.03 java 15679 adowling 20 0 15.0g 575220 15172 S 0.3 7.2 0:17.04 java 15679 adowling 20 0 15.0g 575220 15172 S 0.3 7.2 0:17.05 java 15679 adowling 20 0 15.0g 575220 15172 S 0.3 7.2 0:17.06 java

RABBITMQ CLIENT Test 4

Date	17/03/2020
Library	RABBITMQ CLIENT
Message Volume	1000
Message Byte Size	10000
GC used	G1GC
MultiThreaded	YES
Completed	YES
CPU Producer	24746 adowling 20 0 14.3g 171712 13676 S 87.4 2.1 0:02.63 java 24636 adowling 20 0 14.5g 1.3g 14596 S 0.3 17.4 0:13.46 java 24746 adowling 20 0 14.3g 171740 13676 S 2.0 2.1 0:02.69 java 24746 adowling 20 0 14.3g 265776 14112 S 60.9 3.3 0:04.53 java 24746 adowling 20 0 14.5g 556388 14556 S 179.4 6.9 0:09.93 java 24746 adowling 20 0 14.5g 656956 14608 S 93.0 8.2 0:12.73 java 24746 adowling 20 0 14.5g 676860 14664 S 37.9 8.5 0:13.87 java 24636 adowling 20 0 14.5g 1.3g 14596 S 0.3 17.4 0:13.47 java 24746 adowling 20 0 14.5g 703000 14676 S 49.2 8.8 0:15.35 java 24636 adowling 20 0 14.5g 1.3g 14596 S 0.3 17.4 0:13.48 java 24746 adowling 20 0 14.5g 727860 14676 S 22.0 9.1 0:16.01 java 24746 adowling 20 0 14.5g 752840 14684 S 28.2 9.4 0:16.86 java 24746 adowling 20 0 14.5g 776568 14684 S 28.9 9.7 0:17.73 java 24636 adowling 20 0 14.5g 1.3g 14596 S 0.3 17.4 0:13.49 java
CPU Consumer	15679 adowling 20 0 15.0g 575220 15172 S 0.3 7.2 0:17.17 java 15679 adowling 20 0 15.0g 575220 15172 S 0.3 7.2 0:17.18 java 15679 adowling 20 0 15.0g 575220 15172 S 0.3 7.2 0:17.19 java 15679 adowling 20 0 15.0g 583844 15172 S 10.3 7.3 0:17.50 java

	15679 adowling 20 0 15.0g 604752 15180 S 52.0 7.6 0:19.06 **java** 15679 adowling 20 0 15.0g 605072 15180 S 25.6 7.6 0:19.83 **java** 15679 adowling 20 0 15.0g 606328 15188 S 32.1 7.6 0:20.80 **java** 15679 adowling 20 0 15.0g 607120 15188 S 26.9 7.6 0:21.61 **java** 15679 adowling 20 0 15.0g 608652 15188 S 17.9 7.6 0:22.15 **java** 15679 adowling 20 0 15.0g 603284 15188 S 0.3 7.5 0:22.16 **java**

RABBITMQ CLIENT Test 5

Date	17/03/2020
Library	RABBITMQ CLIENT
Message Volume	1000
Message Byte Size	100000
GC used	G1GC
MultiThreaded	YES
Completed	YES
CPU Producer	24861 adowling 20 0 15.0g 143948 14484 S 49.3 1.8 0:04.09 **java** 24861 adowling 20 0 15.0g 261364 15000 S 182.4 3.3 0:09.58 **java** 24861 adowling 20 0 15.0g 312228 15176 S 85.4 3.9 0:12.15 **java** 24861 adowling 20 0 15.0g 420760 15188 S 45.2 5.3 0:13.51 **java** 24861 adowling 20 0 15.0g 562440 15204 S 47.5 7.0 0:14.94 **java** 24861 adowling 20 0 15.0g 577060 15204 S 25.0 7.2 0:15.69 **java** 24861 adowling 20 0 15.0g 577432 15204 S 29.2 7.2 0:16.57 **java** 24861 adowling 20 0 15.0g 598812 15204 S 39.2 7.5 0:17.75 **java** 24861 adowling 20 0 15.0g 593776 15204 S 0.3 7.4 0:17.76 **java**
CPU Consumer	15679 adowling 20 0 15.0g 603284 15188 S 0.3 7.5 0:22.29 **java** 15679 adowling 20 0 15.0g 603512 15188 S 29.2 7.5 0:23.17 **java** 15679 adowling 20 0 15.0g 683896 15200 S 33.6 8.5 0:24.18 **java** 15679 adowling 20 0 15.0g 686852 15200 S 28.9 8.6 0:25.05 **java** 15679 adowling 20 0 15.0g 703504 15200 S 22.6 8.8 0:25.73 **java** 15679 adowling 20 0 15.0g 767020 15200 S 24.3 9.6 0:26.46 **java** 15679 adowling 20 0 15.0g 767020 15200 S 2.3 9.6 0:26.53 **java**

RABBITMQ CLIENT Test 6

Date	17/03/2020
Library	RABBITMQ CLIENT

Message Volume	1000
Message Byte Size	1000000
GC used	G1GC
MultiThreaded	YES
Completed	YES
CPU Producer	24960 adowling 20 0 15.0g 199544 14840 S 158.9 2.5 0:07.21 **java** 24960 adowling 20 0 15.0g 515640 15124 S 155.3 6.4 0:11.87 **java** 24960 adowling 20 0 15.0g 1.0g 15136 S 66.8 13.2 0:13.88 **java** 24960 adowling 20 0 15.0g 1.3g 15240 S 66.8 17.0 0:15.89 **java** 24960 adowling 20 0 15.0g 1.3g 15260 S 57.1 17.1 0:17.61 **java** 24960 adowling 20 0 15.0g 1.3g 15272 S 55.5 17.1 0:19.28 **java** 24960 adowling 20 0 15.0g 1.3g 15272 S 45.8 17.1 0:20.66 **java** 24960 adowling 20 0 15.0g 1.3g 15272 S 52.5 17.1 0:22.24 **java** 24960 adowling 20 0 15.0g 1.3g 15280 S 62.5 17.1 0:24.12 **java** 24960 adowling 20 0 15.0g 1.3g 15280 S 10.3 17.2 0:24.43 **java** 24960 adowling 20 0 15.0g 1.3g 15280 S 0.3 17.2 0:24.44 **java**
CPU Consumer	15679 adowling 20 0 15.0g 761084 15200 S 12.3 9.5 0:27.00 **java** 15679 adowling 20 0 15.0g 1.2g 15204 S 66.7 15.4 0:29.00 **java** 15679 adowling 20 0 15.0g 1.2g 15276 S 55.8 15.5 0:30.68 **java** 15679 adowling 20 0 15.0g 1.2g 15276 S 69.2 15.9 0:32.77 **java** 15679 adowling 20 0 15.0g 1.2g 15276 S 62.0 16.2 0:34.63 **java** 15679 adowling 20 0 15.0g 1.2g 15276 S 54.2 16.3 0:36.26 **java** 15679 adowling 20 0 15.0g 1.3g 15276 S 59.8 16.4 0:38.06 **java** 15679 adowling 20 0 15.0g 1.3g 15296 S 60.8 16.6 0:39.89 **java**