

Network Performance Tests

ZEROMQ

<http://wiki.zeromq.org/results:perf-howto>

Latency:

Producer:

- `cd /home/adowling/zeromq-4.1.4`
- `./local_lat tcp://eth0:5563 10000 100`
- `./local_lat tcp://eth0:5563 10000 1000`
- `./local_lat tcp://eth0:5563 10000 10000`
- `./local_lat tcp://eth0:5563 100000 100`
- `./local_lat tcp://eth0:5563 100000 1000`
- `./local_lat tcp://eth0:5563 100000 10000`
- `./local_lat tcp://eth0:5563 1000000 100`
- `./local_lat tcp://eth0:5563 1000000 1000`
- `./local_lat tcp://eth0:5563 1000000 10000`

Consumer:

- `cd /home/adowling/zeromq-4.1.4`
- `./remote_lat tcp://10.91.130.125:5563 10000 100`
- `./remote_lat tcp://10.91.130.125:5563 10000 1000`
- `./remote_lat tcp://10.91.130.125:5563 10000 10000`
- `./remote_lat tcp://10.91.130.125:5563 100000 100`
- `./remote_lat tcp://10.91.130.125:5563 100000 1000`
- `./remote_lat tcp://10.91.130.125:5563 100000 10000`
- `./remote_lat tcp://10.91.130.125:5563 1000000 100`
- `./remote_lat tcp://10.91.130.125:5563 1000000 1000`
- `./remote_lat tcp://10.91.130.125:5563 1000000 10000`

Result (100 / 10000):

```
[[adowling@or21-adowling-2 zeromq-4.1.4]$ ./remote_lat tcp://10.91.130.125:5563 10000 100
message size: 10000 [B]
roundtrip count: 100
average latency: 917.050 [us]
[adowling@or21-adowling-2 zeromq-4.1.4]$ █
```

message size: 10000 [B]
roundtrip count: 100
average latency: 917.050 [us]

Result (1000 / 10000):

```
[adowling@or21-adowling-2 zeromq-4.1.4]$ ./remote_lat tcp://10.91.130.125:5563 10000 1000
message size: 10000 [B]
roundtrip count: 1000
average latency: 857.154 [us]
[adowling@or21-adowling-2 zeromq-4.1.4]$ █
```

message size: 10000 [B]
roundtrip count: 1000
average latency: 857.154 [us]

Result (10000 / 10000):

```
[adowling@or21-adowling-2 zeromq-4.1.4]$ ./remote_lat tcp://10.91.130.125:5563 10000 10000
message size: 10000 [B]
roundtrip count: 10000
average latency: 835.648 [us]
[adowling@or21-adowling-2 zeromq-4.1.4]$ █
```

message size: 10000 [B]
roundtrip count: 10000
average latency: 835.648 [us]

Result (100 / 100000):

```
[adowling@or21-adowling-2 zeromq-4.1.4]$ ./remote_lat tcp://10.91.130.125:5563 100000 100
message size: 100000 [B]
roundtrip count: 100
average latency: 2194.870 [us]
[adowling@or21-adowling-2 zeromq-4.1.4]$ █
```

message size: 100000 [B]
roundtrip count: 100
average latency: 2194.870 [us]

Result (1000 / 100000):

```
[adowling@or21-adowling-2 zeromq-4.1.4]$ ./remote_lat tcp://10.91.130.125:5563 100000 1000
message size: 100000 [B]
roundtrip count: 1000
average latency: 2016.457 [us]
[adowling@or21-adowling-2 zeromq-4.1.4]$ █
```

message size: 100000 [B]
roundtrip count: 1000
average latency: 2016.457 [us]

Result (10000 / 100000):

```
[[adowling@or21-adowling-2 zeromq-4.1.4]$ ./remote_lat tcp://10.91.130.125:5563 100000 10000
message size: 100000 [B]
roundtrip count: 10000
average latency: 1979.389 [us]
```

message size: 100000 [B]
roundtrip count: 10000
average latency: 1979.389 [us]

Result (100 / 1000000):

```
[[adowling@or21-adowling-2 zeromq-4.1.4]$ ./remote_lat tcp://10.91.130.125:5563 1000000 100
message size: 1000000 [B]
roundtrip count: 100
average latency: 6078.500 [us]
[adowling@or21-adowling-2 zeromq-4.1.4]$
```

message size: 1000000 [B]
roundtrip count: 100
average latency: 6078.500 [us]

Result (1000 / 1000000):

```
[[adowling@or21-adowling-2 zeromq-4.1.4]$ ./remote_lat tcp://10.91.130.125:5563 1000000 1000
message size: 1000000 [B]
roundtrip count: 1000
average latency: 5388.148 [us]
[adowling@or21-adowling-2 zeromq-4.1.4]$
```

message size: 1000000 [B]
roundtrip count: 1000
average latency: 5388.148 [us]

Result (10000 / 1000000):

```
[adowling@or21-adowling-2 zeromq-4.1.4]$ ./remote_lat tcp://10.91.130.125:5563 1000000 10000
message size: 1000000 [B]
roundtrip count: 10000
average latency: 5370.752 [us]
```

message size: 1000000 [B]
roundtrip count: 10000
average latency: 5370.752 [us]

Throughput:

Producer:

- `cd /home/adowling/zeromq-4.1.4`
- `./local_thr tcp://eth0:5563 10000 100`
- `./local_thr tcp://eth0:5563 10000 1000`
- `./local_thr tcp://eth0:5563 10000 10000`
- `./local_thr tcp://eth0:5563 100000 100`
- `./local_thr tcp://eth0:5563 100000 1000`
- `./local_thr tcp://eth0:5563 100000 10000`
- `./local_thr tcp://eth0:5563 1000000 100`
- `./local_thr tcp://eth0:5563 1000000 1000`
- `./local_thr tcp://eth0:5563 1000000 10000`

Consumer:

- `cd /home/adowling/zeromq-4.1.4`
- `./remote_thr tcp://10.91.130.125:5563 10000 100`
- `./remote_thr tcp://10.91.130.125:5563 10000 1000`
- `./remote_thr tcp://10.91.130.125:5563 10000 10000`
- `./remote_thr tcp://10.91.130.125:5563 100000 100`
- `./remote_thr tcp://10.91.130.125:5563 100000 1000`
- `./remote_thr tcp://10.91.130.125:5563 100000 10000`
- `./remote_thr tcp://10.91.130.125:5563 1000000 100`
- `./remote_thr tcp://10.91.130.125:5563 1000000 1000`
- `./remote_thr tcp://10.91.130.125:5563 1000000 10000`

Result (100):

```
[adowling@or21-adowling-1 zeromq-4.1.4]$ ./local_thr tcp://eth0:5563 10000 100
message size: 10000 [B]
message count: 100
mean throughput: 4842 [msg/s]
mean throughput: 387.360 [Mb/s]
[adowling@or21-adowling-1 zeromq-4.1.4]$
```

message size: 10000 [B]
message count: 100
mean throughput: 4842 [msg/s]
mean throughput: 387.360 [Mb/s]

Result (1000):

```
[[adowling@or21-adowling-1 zeromq-4.1.4]$ ./local_thr tcp://eth0:5563 10000 1000
message size: 10000 [B]
message count: 1000
mean throughput: 8319 [msg/s]
mean throughput: 665.520 [Mb/s]
[adowling@or21-adowling-1 zeromq-4.1.4]$
```

message size: 10000 [B]
message count: 1000
mean throughput: 8319 [msg/s]
mean throughput: 665.520 [Mb/s]

Result (10000):

```
[[adowling@or21-adowling-1 zeromq-4.1.4]$ ./local_thr tcp://eth0:5563 10000 10000
message size: 10000 [B]
message count: 10000
mean throughput: 19996 [msg/s]
mean throughput: 1599.680 [Mb/s]
[adowling@or21-adowling-1 zeromq-4.1.4]$
```

message size: 10000 [B]
message count: 10000
mean throughput: 19996 [msg/s]
mean throughput: 1599.680 [Mb/s]

Result (100 / 100000):

```
[[adowling@or21-adowling-1 zeromq-4.1.4]$ ./local_thr tcp://eth0:5563 100000 100
message size: 100000 [B]
message count: 100
mean throughput: 1129 [msg/s]
mean throughput: 903.200 [Mb/s]
[adowling@or21-adowling-1 zeromq-4.1.4]$
```

message size: 100000 [B]
message count: 100
mean throughput: 1129 [msg/s]
mean throughput: 903.200 [Mb/s]

Result (1000 / 100000):

```
[adowling@or21-adowling-1 zeromq-4.1.4]$ ./local_thr tcp://eth0:5563 100000 1000
message size: 100000 [B]
message count: 1000
mean throughput: 1973 [msg/s]
mean throughput: 1578.400 [Mb/s]
[adowling@or21-adowling-1 zeromq-4.1.4]$ █
```

message size: 100000 [B]
message count: 1000
mean throughput: 1973 [msg/s]
mean throughput: 1578.400 [Mb/s]

Result (10000 / 100000):

```
[adowling@or21-adowling-1 zeromq-4.1.4]$ ./local_thr tcp://eth0:5563 100000 10000
message size: 100000 [B]
message count: 10000
mean throughput: 1821 [msg/s]
mean throughput: 1456.800 [Mb/s]
[adowling@or21-adowling-1 zeromq-4.1.4]$ █
```

message size: 100000 [B]
message count: 10000
mean throughput: 1821 [msg/s]
mean throughput: 1456.800 [Mb/s]

Result (100 / 1000000):

```
[adowling@or21-adowling-1 zeromq-4.1.4]$ ./local_thr tcp://eth0:5563 1000000 100
message size: 1000000 [B]
message count: 100
mean throughput: 218 [msg/s]
mean throughput: 1744.000 [Mb/s]
[adowling@or21-adowling-1 zeromq-4.1.4]$ █
```

message size: 1000000 [B]
message count: 100
mean throughput: 218 [msg/s]
mean throughput: 1744.000 [Mb/s]

Result (1000 / 1000000):

```
[adowling@or21-adowling-1 zeromq-4.1.4]$ ./local_thr tcp://eth0:5563 1000000 1000
message size: 1000000 [B]
message count: 1000
mean throughput: 215 [msg/s]
mean throughput: 1720.000 [Mb/s]
█
```

message size: 1000000 [B]
message count: 1000
mean throughput: 215 [msg/s]
mean throughput: 1720.000 [Mb/s]

Result (10000 / 1000000):

```
[[adowling@or21-adowling-1 zeromq-4.1.4]$ ./local_thr tcp://eth0:5563 1000000 10000  
message size: 1000000 [B]  
message count: 10000  
mean throughput: 218 [msg/s]  
mean throughput: 1744.000 [Mb/s]
```

message size: 1000000 [B]
message count: 10000
mean throughput: 218 [msg/s]
mean throughput: 1744.000 [Mb/s]

RABBITMQ

<https://github.com/rabbitmq/rabbitmq-perf-test>
<https://rabbitmq.github.io/rabbitmq-perf-test/stable/htmlsingle/>

Throughput / Latency

Result (100 / 10000):

```
[adowling@or21-adowling-3 rabbitmq-perf-test-2.12.0.RC1]$ bin/runjava com.rabbitmq.perf.PerfTest -x 1 -y 1 -u  
"throughput-test-1" --id "test 1" -s 10000 -C 100  
id: test 1, starting consumer #0  
id: test 1, starting consumer #0, channel #0  
id: test 1, starting producer #0  
id: test 1, starting producer #0, channel #0  
test stopped (Producer reached message limit)  
id: test 1, sending rate avg: 370 msg/s  
id: test 1, receiving rate avg: 370 msg/s
```

```
[adowling@or21-adowling-3 rabbitmq-perf-test-2.12.0.RC1]
id: test 1, starting consumer #0
id: test 1, starting consumer #0, channel #0
id: test 1, starting producer #0
id: test 1, starting producer #0, channel #0
test stopped (Producer reached message limit)
id: test 1, sending rate avg: 370 msg/s
id: test 1, receiving rate avg: 370 msg/s
```

Result (1000 / 10000):

```
[adowling@or21-adowling-3 rabbitmq-perf-test-2.12.0.RC1]$ bin/runjava com.rabbitmq.perf.PerfTest -x 1 -y 1 -u
"throughput-test-1" --id "test 1" -s 10000 -C 1000
id: test 1, starting consumer #0
id: test 1, starting consumer #0, channel #0
id: test 1, starting producer #0
id: test 1, starting producer #0, channel #0
test stopped (Producer reached message limit)
id: test 1, sending rate avg: 2531 msg/s
id: test 1, receiving rate avg: 1288 msg/s
```

```
[adowling@or21-adowling-3 rabbitmq-perf-test-2.12.0.RC1]$ bi
id: test 1, starting consumer #0
id: test 1, starting consumer #0, channel #0
id: test 1, starting producer #0
id: test 1, starting producer #0, channel #0
test stopped (Producer reached message limit)
id: test 1, sending rate avg: 2531 msg/s
id: test 1, receiving rate avg: 1288 msg/s
```

Result (10000 / 10000):

```
[adowling@or21-adowling-3 rabbitmq-perf-test-2.12.0.RC1]$ bin/runjava com.rabbitmq.perf.PerfTest -x 1 -y 1 -u
"throughput-test-1" --id "test 1" -s 10000 -C 10000
id: test 1, starting consumer #0
id: test 1, starting consumer #0, channel #0
id: test 1, starting producer #0
id: test 1, starting producer #0, channel #0
id: test 1, time: 1.001s, sent: 5286 msg/s, received: 3957 msg/s, min/median/75th/95th/99th consumer latency:
25242/169446/204215/252833/278436 µs
test stopped (Producer reached message limit)
id: test 1, sending rate avg: 5130 msg/s
id: test 1, receiving rate avg: 5130 msg/s
```

```
[adowling@or21-adowling-3 rabbitmq-perf-test-2.12.0.RC1]$ bin/runjava com.rabbitmq.perf.PerfTest -x 1 -y 1 -u "throughput-test-1" --id "test 1" -s 10000 -C 10000
id: test 1, starting consumer #0
id: test 1, starting consumer #0, channel #0
id: test 1, starting producer #0
id: test 1, starting producer #0, channel #0
id: test 1, time: 1.001s, sent: 5286 msg/s, received: 3957 msg/s, min/median/75th/95th/99th consumer latency: 25242/169446/204215/252833/278436 µs
test stopped (Producer reached message limit)
id: test 1, sending rate avg: 5130 msg/s
id: test 1, receiving rate avg: 5130 msg/s
```

Result (100 / 100000):

```
[adowling@or21-adowling-3 rabbitmq-perf-test-2.12.0.RC1]$ bin/runjava com.rabbitmq.perf.PerfTest -x 1 -y 1 -u
"throughput-test-1" --id "test 1" -s 100000 -C 100
```


id: test 1, starting consumer #0
id: test 1, starting consumer #0, channel #0
id: test 1, starting producer #0
id: test 1, starting producer #0, channel #0
test stopped (Producer reached message limit)
id: test 1, sending rate avg: 330 msg/s
id: test 1, receiving rate avg: 330 msg/s

```
[adowling@or21-adowling-3 rabbitmq-perf-test-2.12.0.RC1]$ bin/runjava com.rabbitmq.perf.PerfTest -x 1 -y 1 -u  
id: test 1, starting consumer #0  
id: test 1, starting consumer #0, channel #0  
id: test 1, starting producer #0  
id: test 1, starting producer #0, channel #0  
test stopped (Producer reached message limit)  
id: test 1, sending rate avg: 330 msg/s  
id: test 1, receiving rate avg: 330 msg/s  
[adowling@or21-adowling-3 rabbitmq-perf-test-2.12.0.RC1]$
```

Result (1000 / 100000):

```
[adowling@or21-adowling-3 rabbitmq-perf-test-2.12.0.RC1]$ bin/runjava com.rabbitmq.perf.PerfTest -x 1 -y 1 -u  
"throughput-test-1" --id "test 1" -s 100000 -C 1000  
id: test 1, starting consumer #0  
id: test 1, starting consumer #0, channel #0  
id: test 1, starting producer #0  
id: test 1, starting producer #0, channel #0  
test stopped (Producer reached message limit)  
id: test 1, sending rate avg: 1675 msg/s  
id: test 1, receiving rate avg: 1675 msg/s
```

```
[adowling@or21-adowling-3 rabbitmq-perf-test-2.12.0.RC1]$ bin/runjava com.rabbitmq.perf.PerfTest -x 1 -y 1 -u  
id: test 1, starting consumer #0  
id: test 1, starting consumer #0, channel #0  
id: test 1, starting producer #0  
id: test 1, starting producer #0, channel #0  
test stopped (Producer reached message limit)  
id: test 1, sending rate avg: 1675 msg/s  
id: test 1, receiving rate avg: 1675 msg/s
```

Result (10000 / 100000):

```
[adowling@or21-adowling-3 rabbitmq-perf-test-2.12.0.RC1]$ bin/runjava com.rabbitmq.perf.PerfTest -x 1 -y 1 -u  
"throughput-test-1" --id "test 1" -s 100000 -C 10000  
id: test 1, starting consumer #0  
id: test 1, starting consumer #0, channel #0  
id: test 1, starting producer #0  
id: test 1, starting producer #0, channel #0  
id: test 1, time: 1.000s, sent: 2471 msg/s, received: 2304 msg/s, min/median/75th/95th/99th consumer latency:  
4983/38666/52890/73369/84096 µs  
id: test 1, time: 2.000s, sent: 3254 msg/s, received: 3326 msg/s, min/median/75th/95th/99th consumer latency:  
10121/31769/68624/111898/123271 µs
```

id: test 1, time: 3.007s, sent: 4030 msg/s, received: 3886 msg/s, min/median/75th/95th/99th consumer latency:
7450/33925/50778/73636/85044 µs
test stopped (Producer reached message limit)
id: test 1, sending rate avg: 3232 msg/s
id: test 1, receiving rate avg: 3232 msg/s

```
[[adowling@or21-adowling-3 rabbitmq-perf-test-2.12.0.RC1]$ bin/runjava com.rabbitmq.perf.PerfTest -x 1 -y 1 -u "throughput-test-1" --id "test 1" -s
id: test 1, starting consumer #0
id: test 1, starting consumer #0, channel #0
id: test 1, starting producer #0
id: test 1, starting producer #0, channel #0
id: test 1, time: 1.000s, sent: 2471 msg/s, received: 2304 msg/s, min/median/75th/95th/99th consumer latency: 4983/38666/52890/73369/84096 µs
id: test 1, time: 2.000s, sent: 3254 msg/s, received: 3326 msg/s, min/median/75th/95th/99th consumer latency: 10121/31769/68624/111898/123271 µs
id: test 1, time: 3.007s, sent: 4030 msg/s, received: 3886 msg/s, min/median/75th/95th/99th consumer latency: 7450/33925/50778/73636/85044 µs
test stopped (Producer reached message limit)
id: test 1, sending rate avg: 3232 msg/s
id: test 1, receiving rate avg: 3232 msg/s
```

Result (100 / 1000000):

```
[adowling@or21-adowling-3 rabbitmq-perf-test-2.12.0.RC1]$ bin/runjava com.rabbitmq.perf.PerfTest -x 1 -y 1 -u
"throughput-test-1" --id "test 1" -s 1000000 -C 100
id: test 1, starting consumer #0
id: test 1, starting consumer #0, channel #0
id: test 1, starting producer #0
id: test 1, starting producer #0, channel #0
test stopped (Producer reached message limit)
id: test 1, sending rate avg: 203 msg/s
id: test 1, receiving rate avg: 167 msg/s
```

```
[[adowling@or21-adowling-3 rabbitmq-perf-test-2.12.0.RC1]$ bin/runj
id: test 1, starting consumer #0
id: test 1, starting consumer #0, channel #0
id: test 1, starting producer #0
id: test 1, starting producer #0, channel #0
test stopped (Producer reached message limit)
id: test 1, sending rate avg: 203 msg/s
id: test 1, receiving rate avg: 167 msg/s
```

Result (1000 / 1000000):

```
[adowling@or21-adowling-3 rabbitmq-perf-test-2.12.0.RC1]$ bin/runjava com.rabbitmq.perf.PerfTest -x 1 -y 1 -u
"throughput-test-1" --id "test 1" -s 1000000 -C 1000
id: test 1, starting consumer #0
id: test 1, starting consumer #0, channel #0
id: test 1, starting producer #0
id: test 1, starting producer #0, channel #0
id: test 1, time: 1.001s, sent: 370 msg/s, received: 305 msg/s, min/median/75th/95th/99th consumer latency:
13183/72706/132331/145480/153060 µs
id: test 1, time: 2.001s, sent: 516 msg/s, received: 412 msg/s, min/median/75th/95th/99th consumer latency:
103567/214226/295278/335737/339147 µs
test stopped (Producer reached message limit)
id: test 1, sending rate avg: 425 msg/s
id: test 1, receiving rate avg: 353 msg/s
```

```
[adowling@or21-adowling-3 rabbitmq-perf-test-2.12.0.RC1]$ bin/runjava com.rabbitmq.perf.PerfTest -x 1 -y 1 -u "throughput-test-1" --id "test 1" -s 1
id: test 1, starting consumer #0
id: test 1, starting consumer #0, channel #0
id: test 1, starting producer #0
id: test 1, starting producer #0, channel #0
id: test 1, time: 1.001s, sent: 370 msg/s, received: 305 msg/s, min/median/75th/95th/99th consumer latency: 13183/72706/132331/145480/153060 µs
id: test 1, time: 2.001s, sent: 516 msg/s, received: 412 msg/s, min/median/75th/95th/99th consumer latency: 103567/214226/295278/335737/339147 µs
test stopped (Producer reached message limit)
id: test 1, sending rate avg: 425 msg/s
id: test 1, receiving rate avg: 353 msg/s
[adowling@or21-adowling-3 rabbitmq-perf-test-2.12.0.RC1]$
```

Result (10000 / 1000000):

```
[adowling@or21-adowling-3 rabbitmq-perf-test-2.12.0.RC1]$ bin/runjava com.rabbitmq.perf.PerfTest -x 1 -y 1 -u "throughput-test-1" --id "test 1" -s 1000000 -C 10000
id: test 1, starting consumer #0
id: test 1, starting consumer #0, channel #0
id: test 1, starting producer #0
id: test 1, starting producer #0, channel #0
id: test 1, time: 1.000s, sent: 384 msg/s, received: 315 msg/s, min/median/75th/95th/99th consumer latency: 25248/94825/103210/116072/120839 µs
id: test 1, time: 2.000s, sent: 533 msg/s, received: 391 msg/s, min/median/75th/95th/99th consumer latency: 114066/359347/387447/404989/425141 µs
id: test 1, time: 3.000s, sent: 714 msg/s, received: 404 msg/s, min/median/75th/95th/99th consumer latency: 401594/442783/607783/706175/719199 µs
id: test 1, time: 4.184s, sent: 391 msg/s, received: 314 msg/s, min/median/75th/95th/99th consumer latency: 714915/854979/988468/1072680/1126111 µs
id: test 1, time: 5.185s, sent: 476 msg/s, received: 308 msg/s, min/median/75th/95th/99th consumer latency: 1459259/1742948/1831619/1885682/1911279 µs
id: test 1, time: 6.185s, sent: 614 msg/s, received: 477 msg/s, min/median/75th/95th/99th consumer latency: 1414988/1966709/2018638/2041351/2054543 µs
id: test 1, time: 7.189s, sent: 603 msg/s, received: 459 msg/s, min/median/75th/95th/99th consumer latency: 1493949/1616456/1691998/1704974/1712070 µs
id: test 1, time: 8.193s, sent: 594 msg/s, received: 421 msg/s, min/median/75th/95th/99th consumer latency: 1709984/1967343/2033726/2070343/2077262 µs
id: test 1, time: 9.198s, sent: 599 msg/s, received: 451 msg/s, min/median/75th/95th/99th consumer latency: 2067279/2206155/2267641/2315350/2337068 µs
id: test 1, time: 10.200s, sent: 514 msg/s, received: 435 msg/s, min/median/75th/95th/99th consumer latency: 2339196/2434182/2462409/2507159/2559178 µs
id: test 1, time: 11.204s, sent: 587 msg/s, received: 459 msg/s, min/median/75th/95th/99th consumer latency: 2567117/2724522/2792303/2828990/2838727 µs
id: test 1, time: 12.204s, sent: 549 msg/s, received: 418 msg/s, min/median/75th/95th/99th consumer latency: 2836708/2983661/3087828/3110986/3137761 µs
id: test 1, time: 13.204s, sent: 529 msg/s, received: 438 msg/s, min/median/75th/95th/99th consumer latency: 3147886/3282370/3320046/3367969/3379834 µs
id: test 1, time: 14.212s, sent: 427 msg/s, received: 347 msg/s, min/median/75th/95th/99th consumer latency: 3361060/3414407/3522286/3637359/3645791 µs
id: test 1, time: 15.222s, sent: 486 msg/s, received: 436 msg/s, min/median/75th/95th/99th consumer latency: 3621665/3819533/3849406/3875991/3890629 µs
id: test 1, time: 16.222s, sent: 408 msg/s, received: 305 msg/s, min/median/75th/95th/99th consumer latency: 3942784/4293511/4315624/4331597/4343223 µs
id: test 1, time: 17.222s, sent: 494 msg/s, received: 396 msg/s, min/median/75th/95th/99th consumer latency: 4402058/4590277/4624657/4651851/4667926 µs
id: test 1, time: 18.222s, sent: 492 msg/s, received: 434 msg/s, min/median/75th/95th/99th consumer latency: 4672438/4774412/4806623/4833590/4844209 µs
id: test 1, time: 19.224s, sent: 434 msg/s, received: 434 msg/s, min/median/75th/95th/99th consumer latency: 4714902/4763952/4773709/4797172/4803911 µs
```

test stopped (Producer reached message limit)

id: test 1, sending rate avg: 511 msg/s

id: test 1, receiving rate avg: 396 msg/s

```
[[adowling@or21-adowling-3 rabbitmq-perf-test-2.12.0.RC1]$ bin/runjava com.rabbitmq.perf.PerfTest -x 1 -y 1 -u "throughput-test-1" --id "test 1" -s 1000000 -C 1000
id: test 1, starting consumer #0
id: test 1, starting consumer #0, channel #0
id: test 1, starting producer #0
id: test 1, starting producer #0, channel #0
id: test 1, time: 1.000s, sent: 384 msg/s, received: 315 msg/s, min/median/75th/95th/99th consumer latency: 25248/94825/103210/116072/120839 µs
id: test 1, time: 2.000s, sent: 533 msg/s, received: 391 msg/s, min/median/75th/95th/99th consumer latency: 114066/359347/387447/404989/425141 µs
id: test 1, time: 3.000s, sent: 714 msg/s, received: 404 msg/s, min/median/75th/95th/99th consumer latency: 401594/442783/607783/706175/719199 µs
id: test 1, time: 4.184s, sent: 391 msg/s, received: 314 msg/s, min/median/75th/95th/99th consumer latency: 714915/854979/988468/1072680/1126111 µs
id: test 1, time: 5.185s, sent: 476 msg/s, received: 308 msg/s, min/median/75th/95th/99th consumer latency: 1459259/1742948/1831619/1885682/1911279 µs
id: test 1, time: 6.185s, sent: 614 msg/s, received: 477 msg/s, min/median/75th/95th/99th consumer latency: 1414988/1966709/2018638/2041351/2054543 µs
id: test 1, time: 7.189s, sent: 603 msg/s, received: 459 msg/s, min/median/75th/95th/99th consumer latency: 1493949/1616456/1691998/1704974/1712070 µs
id: test 1, time: 8.193s, sent: 594 msg/s, received: 421 msg/s, min/median/75th/95th/99th consumer latency: 1709984/1967943/2033726/2070343/2077262 µs
id: test 1, time: 9.198s, sent: 599 msg/s, received: 451 msg/s, min/median/75th/95th/99th consumer latency: 2067270/2206155/2267641/2315350/2337068 µs
id: test 1, time: 10.200s, sent: 514 msg/s, received: 435 msg/s, min/median/75th/95th/99th consumer latency: 2339196/2434182/2462409/2507159/2559178 µs
id: test 1, time: 11.204s, sent: 587 msg/s, received: 459 msg/s, min/median/75th/95th/99th consumer latency: 2567117/2724522/2792303/2828998/2838727 µs
id: test 1, time: 12.204s, sent: 549 msg/s, received: 418 msg/s, min/median/75th/95th/99th consumer latency: 2836708/2983661/3087828/3110986/3137761 µs
id: test 1, time: 13.204s, sent: 529 msg/s, received: 438 msg/s, min/median/75th/95th/99th consumer latency: 3147886/3282370/3320046/3367969/3379834 µs
id: test 1, time: 14.212s, sent: 427 msg/s, received: 347 msg/s, min/median/75th/95th/99th consumer latency: 3361060/3414407/3522286/3637359/3645791 µs
id: test 1, time: 15.222s, sent: 486 msg/s, received: 436 msg/s, min/median/75th/95th/99th consumer latency: 3621665/3819533/3849406/3875991/3890629 µs
id: test 1, time: 16.222s, sent: 408 msg/s, received: 305 msg/s, min/median/75th/95th/99th consumer latency: 3942784/4293511/4315624/4331597/4343223 µs
id: test 1, time: 17.222s, sent: 494 msg/s, received: 396 msg/s, min/median/75th/95th/99th consumer latency: 4402058/4590277/4624657/4651851/4667926 µs
id: test 1, time: 18.222s, sent: 492 msg/s, received: 434 msg/s, min/median/75th/95th/99th consumer latency: 4672438/4774412/4806623/4833590/4844209 µs
id: test 1, time: 19.224s, sent: 434 msg/s, received: 434 msg/s, min/median/75th/95th/99th consumer latency: 4714902/4763952/4773709/4797172/4803911 µs
test stopped (Producer reached message limit)
id: test 1, sending rate avg: 511 msg/s
id: test 1, receiving rate avg: 396 msg/s
[adowling@or21-adowling-3 rabbitmq-perf-test-2.12.0.RC1]$ █
```