7th June 2019

**Test Overview:**

Test 1: Throughput test. 1 pub, 1 sub. LatencyCount of 1. numIter of 500,000.

Test 2: Throughput test. 1 pub, 1 sub. LatencyCount of 10,000. numIter of 500,000.

Test 3: Throughput test. 1 pub, 5 sub. LatencyCount of 10,000. numIter of 500,000.

Test 4: Throughput test. 1 pub, 10 sub. LatencyCount of 10,000. numIter of 500,000.

**Commands:**

Test 1 Publisher

perftest\_java.bat -pub -dataLen 4096 -numSubscribers 1 -domain 1 -latencyCount 1 -numIter 500000

Test 1 Subscriber

perftest\_java.bat -sub -dataLen 4096 -domain 1 -fileName sub1.csv

Test 2 Publisher

perftest\_java.bat -pub -dataLen 4096 -numSubscribers 1 -domain 1 -latencyCount 10000 -numIter 500000

Test 2 Subscriber

perftest\_java.bat -sub -dataLen 4096 -domain 1 -fileName sub1.csv

Test 3 Publisher

perftest\_java.bat -pub -dataLen 4096 -numSubscribers 5 -domain 1 -latencyCount 10000 -numIter 500000

Test 3 Subscribers

perftest\_java.bat -sub -dataLen 4096 -domain 1 -fileName sub1.csv -sidMultiSubTest 1

perftest\_java.bat -sub -dataLen 4096 -domain 1 -fileName sub2.csv -sidMultiSubTest 2

perftest\_java.bat -sub -dataLen 4096 -domain 1 -fileName sub3.csv -sidMultiSubTest 3

perftest\_java.bat -sub -dataLen 4096 -domain 1 -fileName sub4.csv -sidMultiSubTest 4

perftest\_java.bat -sub -dataLen 4096 -domain 1 -fileName sub5.csv -sidMultiSubTest 5

Test 4 Publisher

perftest\_java.bat -pub -dataLen 4096 -numSubscribers 10 -domain 1 -latencyCount 10000 -numIter 500000

Test 4 Subscribers

perftest\_java.bat -sub -dataLen 4096 -domain 1 -fileName sub1.csv -sidMultiSubTest 1

perftest\_java.bat -sub -dataLen 4096 -domain 1 -fileName sub2.csv -sidMultiSubTest 2

perftest\_java.bat -sub -dataLen 4096 -domain 1 -fileName sub3.csv -sidMultiSubTest 3

perftest\_java.bat -sub -dataLen 4096 -domain 1 -fileName sub4.csv -sidMultiSubTest 4

perftest\_java.bat -sub -dataLen 4096 -domain 1 -fileName sub5.csv -sidMultiSubTest 5

perftest\_java.bat -sub -dataLen 4096 -domain 1 -fileName sub6.csv -sidMultiSubTest 6

perftest\_java.bat -sub -dataLen 4096 -domain 1 -fileName sub7.csv -sidMultiSubTest 7

perftest\_java.bat -sub -dataLen 4096 -domain 1 -fileName sub8.csv -sidMultiSubTest 8

perftest\_java.bat -sub -dataLen 4096 -domain 1 -fileName sub9.csv -sidMultiSubTest 9

perftest\_java.bat -sub -dataLen 4096 -domain 1 -fileName sub10.csv -sidMultiSubTest 10

**Results Tables:**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  |  | Throughput (Mbps) |  |  | Latency (us) |  |
| Test | Minimum | Maximum | Average | Minimum | Maximum | Average |
| 1 | 0 | 13.7 | 4.7 | 1270 | 551,762,058 | 280,545,192 |
| 2 | 1061 | 1150.2 | 1108.1 | 139 | 1602 | 673.5 |

Test 3:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| One-way Latency (us) |  |  | Throughput (Mbps) |  |  |
| Average | Average | Average | Average | Average | Average |
| Pub 1 | Sub 1 | Sub 2 | Sub 3 | Sub 4 | Sub 5 |
| 1658.3 | 269.5 | 268.3 | 273.5 | 276.8 | 268.3 |

Test 4:

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  | Throughput (Mbps) |  |  |  |  |  | One-way Latency (us) |
| Sub 1 | Sub 2 | Sub 3 | Sub 4 | Sub 5 | Sub 6 | Sub 7 | Sub 8 | Sub 9 | Sub 10 | Pub 1 |
| Avg | Avg | Avg | Avg | Avg | Avg | Avg | Avg | Avg | Avg | Avg |
| 131.6 | 132.3 | 132.3 | 132.5 | 131.4 | 132.3 | 132.3 | 131.5 | 131.6 | 132.4 | 3674.9 |