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5th June 2019

# Test Overview:

Set 1: Best Effort

Test 1: 1 Pub 1 Sub LatencyCount 1 numIter 500,000

Test 2: 1 Pub 1 Sub LatencyCount 10,000 numIter 500,000

Test 3: 1 Pub 5 Sub LatencyCount 10,000 numIter 500,000

Test 4: 1 Pub 10 Sub LatencyCount 10,000 numIter 500,000

Set 2: Best Effort + Multicast

Test 5: 1 Pub 1 Sub LatencyCount 10,000 numIter 500,000

Test 6: 1 Pub 5 Sub LatencyCount 10,000 numIter 500,000

Test 7: 1 Pub 10 Sub LatencyCount 10,000 numIter 500,000

Set 3: Reliability + Multicast

Test 8: 1 Pub 1 Sub LatencyCount 10,000 numIter 500,000

Test 9: 1 Pub 5 Sub LatencyCount 10,000 numIter 500,000

Test 10: 1 Pub 10 Sub LatencyCount 10,000 numIter 500,000

# Commands:

Test 1 Publisher

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

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 -bestEffort

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 -bestEffort

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 -bestEffort

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

Test 5 Publisher

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

Test 5 Subscriber

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

Test 6 Publisher

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

Test 6 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 7 Publisher

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

Test 7 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

Test 8 Publisher

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

Test 8 Subscriber

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

Test 9 Publisher

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

Test 9 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 10 Publisher

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

Test 10 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 Table:

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Test | Latency (us) |  |  |  |  | Throughput (Mbps) |  |  |  |  |  |
|  | Pub 1 | Sub 1 | Sub 2 | Sub 3 | Sub 4 | Sub 5 | Sub 6 | Sub 7 | Sub 8 | Sub 9 | Sub 10 |
| 1.1 | 3,225,837 | 785.2 | - | - | - | - | - | - | - | - | - |
| 1.2 | 3,521,216 | 780.4 | - | - | - | - | - | - | - | - | - |
| 1.3 | 3,215,740 | 725.8 | - | - | - | - | - | - | - | - | - |
| 2.1 | 7,001 | 1448.5 | - | - | - | - | - | - | - | - | - |
| 2.2 | 1,210,309 | 1108 | - | - | - | - | - | - | - | - | - |
| 2.3 | 1,031,420 | 1333.7 | - | - | - | - | - | - | - | - | - |
| 3.1 | 226 | 189.9 | 190.5 | 189.5 | 189.1 | 190.2 | - | - | - | - | - |
| 3.2 | 387 | 205.6 | 205.0 | 203.1 | 205.1 | 204.9 | - | - | - | - | - |
| 3.3 | 384 | 190.5 | 190.7 | 191.0 | 190.4 | 190.7 | - | - | - | - | - |
| 4.1 | 1470 | 59.7 | 59.6 | 59.6 | 59.5 | 59.6 | 59.5 | 59.6 | 59.6 | 59.6 | 59.5 |
| 4.2 | 471 | 57.3 | 57.3 | 57.3 | 57.2 | 57.4 | 57.4 | 57.3 | 57.3 | 57.3 | 57.1 |
| 4.3 | 451 | 58.3 | 58.3 | 58.3 | 58.3 | 58.4 | 58.4 | 58.2 | 58.3 | 58.2 | 58.2 |
| 5.1 | - | 1592.6 | - | - | - | - | - | - | - | - | - |
| 5.2 | - | 1892.1 | - | - | - | - | - | - | - | - | - |
| 5.3 | - | 1900.1 | - | - | - | - | - | - | - | - | - |
| 6.1 | 419 | 183.0 | 183.7 | 182.9 | 182.9 | 181.8 | - | - | - | - | - |
| 6.2 | 1728 | 209.9 | 209.8 | 209.8 | 209.7 | 209.5 | - | - | - | - | - |
| 6.3 | 309 | 214.9 | 214.9 | 213.0 | 213.1 | 213.3 | - | - | - | - | - |
| 7.1 | 3460 | 26.3 | 26.3 | 26.4 | 26.3 | 26.3 | 26.3 | 26.4 | 26.3 | 26.3 | 26.4 |
| 7.2 | 5787.5 | 25.6 | 25.6 | 25.6 | 25.6 | 25.6 | 25.6 | 25.6 | 25.6 | 25.6 | 25.6 |
| 7.3 | 821.9 | 29.7 | 29.7 | 29.7 | 29.7 | 29.7 | 29.7 | 29.7 | 29.7 | 29.7 | 29.6 |
| 8.1 | 1235 | 35.8 | - | - | - | - | - | - | - | - | - |
| 8.2 | 958 | 31.5 | - | - | - | - | - | - | - | - | - |
| 8.3 | 812 | 33.2 | - | - | - | - | - | - | - | - | - |
| 9.1 | 695 | 34.7 | 34.7 | 34.7 | 34.7 | 34.7 | - | - | - | - | - |
| 9.2 | 1151 | 32.0 | 32.0 | 32.0 | 32.0 | 32.0 | - | - | - | - | - |
| 9.3 | 1093 | 33.6 | 33.6 | 33.6 | 33.6 | 33.6 | - | - | - | - | - |
| 10.1 | 2352 | 27.2 | 27.2 | 27.1 | 27.1 | 27.2 | 27.2 | 27.2 | 27.2 | 27.2 | 27.1 |
| 10.2 | 959 | 27.3 | 27.3 | 27.3 | 27.3 | 27.3 | 27.3 | 27.3 | 27.3 | 27.3 | 27.2 |
| 10.3 | 2228 | 28.9 | 28.9 | 28.9 | 28.9 | 28.9 | 28.9 | 28.9 | 28.9 | 28.9 | 28.9 |