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11th July 2019

# Test Overview:

Test 1.1: LatencyCount 10,000; numIter 10,000,000; bestEffort; multicast; 1 pub; 1 sub; 512 bytes

Test 1.2: LatencyCount 10,000; numIter 10,000,000; bestEffort; unicast; 1pub; 1sub; 512 bytes

Test 1.3: LatencyCount 10,000; numIter 10,000,000; reliability; multicast; 1 pub; 1 sub; 512 bytes

Test 1.4: LatencyCount 10,000; numIter 10,000,000; reliability; unicast; 1 pub; 1 sub; 512 bytes

Test 1.5: LatencyCount 10,000; numIter 10,000,000; bestEffort; multicast; 1 pub; 5 sub; 512 bytes

Test 1.6: LatencyCount 10,000; numIter 10,000,000; bestEffort; unicast; 1 pub; 5 sub; 512 bytes

Test 1.7: LatencyCount 10,000; numIter 10,000,000; reliability; multicast; 1 pub; 5 sub; 512 bytes

Test 1.8: LatencyCount 10,000; numIter 10,000,000; reliability; unicast; 1 pub; 5 sub; 512 bytes

Test 1.9: LatencyCount 10,000; numIter 10,000,000; bestEffort; multicast; 1 pub; 10 sub; 512 bytes

Test 1.10: LatencyCount 10,000; numIter 10,000,000; bestEffort; unicast; 1 pub; 10 sub; 512 bytes

Test 1.11: LatencyCount 10,000; numIter 10,000,000; reliability; multicast; 1 pub; 10 sub; 512 bytes

Test 1.12: LatencyCount 10,000; numIter 10,000,000; reliability; unicast; 1 pub; 10 sub; 512 bytes

Test 2.1: LatencyCount 10,000; numIter 10,000,000; bestEffort; multicast; 1 pub; 1 sub; 512 bytes

Test 2.2: LatencyCount 10,000; numIter 10,000,000; bestEffort; unicast; 1pub; 1sub; 512 bytes

Test 2.3: LatencyCount 10,000; numIter 10,000,000; reliability; multicast; 1 pub; 1 sub; 512 bytes

Test 2.4: LatencyCount 10,000; numIter 10,000,000; reliability; unicast; 1 pub; 1 sub; 512 bytes

Test 2.5: LatencyCount 10,000; numIter 10,000,000; bestEffort; multicast; 1 pub; 5 sub; 512 bytes

Test 2.6: LatencyCount 10,000; numIter 10,000,000; bestEffort; unicast; 1 pub; 5 sub; 512 bytes

Test 2.7: LatencyCount 10,000; numIter 10,000,000; reliability; multicast; 1 pub; 5 sub; 512 bytes

Test 2.8: LatencyCount 10,000; numIter 10,000,000; reliability; unicast; 1 pub; 5 sub; 512 bytes

Test 2.9: LatencyCount 10,000; numIter 10,000,000; bestEffort; multicast; 1 pub; 10 sub; 512 bytes

Test 2.10: LatencyCount 10,000; numIter 10,000,000; bestEffort; unicast; 1 pub; 10 sub; 512 bytes

Test 2.11: LatencyCount 10,000; numIter 10,000,000; reliability; multicast; 1 pub; 10 sub; 512 bytes

Test 2.12: LatencyCount 10,000; numIter 10,000,000; reliability; unicast; 1 pub; 10 sub; 512 bytes

Test 3.1: LatencyCount 10,000; numIter 10,000,000; bestEffort; multicast; 1 pub; 1 sub; 512 bytes

Test 3.2: LatencyCount 10,000; numIter 10,000,000; bestEffort; unicast; 1pub; 1sub; 512 bytes

Test 3.3: LatencyCount 10,000; numIter 10,000,000; reliability; multicast; 1 pub; 1 sub; 512 bytes

Test 3.4: LatencyCount 10,000; numIter 10,000,000; reliability; unicast; 1 pub; 1 sub; 512 bytes

Test 3.5: LatencyCount 10,000; numIter 10,000,000; bestEffort; multicast; 1 pub; 5 sub; 512 bytes

Test 3.6: LatencyCount 10,000; numIter 10,000,000; bestEffort; unicast; 1 pub; 5 sub; 512 bytes

Test 3.7: LatencyCount 10,000; numIter 10,000,000; reliability; multicast; 1 pub; 5 sub; 512 bytes

Test 3.8: LatencyCount 10,000; numIter 10,000,000; reliability; unicast; 1 pub; 5 sub; 512 bytes

Test 3.9: LatencyCount 10,000; numIter 10,000,000; bestEffort; multicast; 1 pub; 10 sub; 512 bytes

Test 3.10: LatencyCount 10,000; numIter 10,000,000; bestEffort; unicast; 1 pub; 10 sub; 512 bytes

Test 3.11: LatencyCount 10,000; numIter 10,000,000; reliability; multicast; 1 pub; 10 sub; 512 bytes

Test 3.12: LatencyCount 10,000; numIter 10,000,000; reliability; unicast; 1 pub; 10 sub; 512 bytes

# Commands:

Test 1 Publisher

perftest\_java.bat -pub -dataLen 4096 -numSubscribers 1 -domain 1 -executionTime 10

Test 1 Subscriber

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

Test 1 Publisher

perftest\_java.bat -pub -dataLen 4096 -numSubscribers 1 -domain 1 -executionTime 10

Test 1 Subscriber

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

perftest\_java.bat -pub -dataLen 4096 -numSubscribers 1 -domain 1 -executionTime 10

Test 1 Subscriber

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

# Analysis:

Test 1:

# Results Table:

See corresponding excel sheets. One is for all best effort experiments while the other is for all reliability tests.