

Scenario:
ndnputchunks/ndncatchunks
File size: 1 MB
Chunk size: 8 KB
Number of chunks: 132

Bandwidth					
No traffic control	Bandwidth: 5 Mbit/s	Bandwidth: 1 Mbit/s	Bandwidth: 0.5 Mbit/s	Bandwidth: 0.1 Mbit/s	
Time elapsed: 120.565 milliseconds Total # of segments received: 132 Total size: 1048.58kB Goodput: 69.577361 Mbit/s Total # of lost/retransmitted segments: 0 (caused 0 window decreases) Packet loss rate: 0% Total # of received congestion marks: 2 RTT min/avg/max = 2.090/10.049/20.796 ms	Time elapsed: 1783.03 milliseconds Total # of segments received: 132 Total size: 1048.58kB Goodput: 4.704685 Mbit/s Total # of lost/retransmitted segments: 0 (caused 0 window decreases) Packet loss rate: 0% Total # of received congestion marks: 10 RTT min/avg/max = 9.807/66.546/149.749 ms	Time elapsed: 9121.09 milliseconds Total # of segments received: 132 Total size: 1048.58kB Goodput: 919.693691 kbit/s Total # of lost/retransmitted segments: 5 (caused 2 window decreases) Packet loss rate: 3.67647% Total # of received congestion marks: 32 RTT min/avg/max = 37.955/261.619/429.045 ms	Time elapsed: 19592.3 milliseconds Total # of segments received: 132 Total size: 1048.58kB Goodput: 428.157470 kbit/s Total # of lost/retransmitted segments: 32 (caused 17 window decreases) Packet loss rate: 19.6319% Total # of received congestion marks: 0 RTT min/avg/max = 82.601/404.902/468.038 ms	FAILED Stop & Wait: Time elapsed: 86163.4 milliseconds Total # of segments received: 132 Total size: 1048.58kB Goodput: 97.356993 kbit/s	

Latency (absolute)					
10 ms	50 ms	100 ms	500 ms	1000 ms	2000 ms
Time elapsed: 192.569 milliseconds Total # of segments received: 132 Total size: 1048.58kB Goodput: 43.561547 Mbit/s Total # of lost/retransmitted segments: 0 (caused 0 window decreases) Packet loss rate: 0% Total # of received congestion marks: 1 RTT min/avg/max = 11.995/18.689/30.992 ms	Time elapsed: 779.083 milliseconds Total # of segments received: 132 Total size: 1048.58kB Goodput: 10.767278 Mbit/s Total # of lost/retransmitted segments: 0 (caused 0 window decreases) Packet loss rate: 0% Total # of received congestion marks: 2 RTT min/avg/max = 51.678/60.228/68.929 ms	Time elapsed: 1216.07 milliseconds Total # of segments received: 132 Total size: 1048.58kB Goodput: 6.898156 Mbit/s Total # of lost/retransmitted segments: 0 (caused 0 window decreases) Packet loss rate: 0% Total # of received congestion marks: 1 RTT min/avg/max = 102.787/110.137/119.476 ms	Time elapsed: 7699.43 milliseconds Total # of segments received: 132 Total size: 1048.58kB Goodput: 1.089510 Mbit/s Total # of lost/retransmitted segments: 0 (caused 0 window decreases) Packet loss rate: 0% Total # of received congestion marks: 5 RTT min/avg/max = 504.232/514.157/523.380 ms	Time elapsed: 19267.1 milliseconds Total # of segments received: 132 Total size: 1048.58kB Goodput: 435.384347 kbit/s Total # of lost/retransmitted segments: 3 (caused 1 window decreases) Packet loss rate: 2.23881% Total # of received congestion marks: 2 RTT min/avg/max = 1007.161/1013.685/1017.883 ms	Time elapsed: 38188.3 milliseconds Total # of segments received: 132 Total size: 1048.58kB Goodput: 219.664225 kbit/s Total # of lost/retransmitted segments: 8 (caused 2 window decreases) Packet loss rate: 5.7554% Total # of received congestion marks: 2 RTT min/avg/max = 2004.320/2010.051/2013.558 ms

Latency (variation)					
10 ms (- + 1 ms) [correlation value: 25%]	50 ms (- + 1 ms) [correlation value: 25%]	100 ms (- + 1 ms) [correlation value: 25%]	500 ms (- + 1 ms) [correlation value: 25%]	1000 ms (- + 1 ms) [correlation value: 25%]	2000 ms (- + 1 ms) [correlation value: 25%]
Time elapsed: 748.369 milliseconds Total # of segments received: 132 Total size: 1048.58kB Goodput: 11.209194 Mbit/s Total # of lost/retransmitted segments: 35 (caused 1 window decreases) Packet loss rate: 21.0843% Total # of received congestion marks: 0 RTT min/avg/max = 13.737/27.907/49.956 ms	Time elapsed: 1523.64 milliseconds Total # of segments received: 132 Total size: 1048.58kB Goodput: 5.505632 Mbit/s Total # of lost/retransmitted segments: 94 (caused 1 window decreases) Packet loss rate: 41.7778% Total # of received congestion marks: 0 RTT min/avg/max = 42.747/64.558/80.292 ms	Time elapsed: 1652.31 milliseconds Total # of segments received: 132 Total size: 1048.58kB Goodput: 5.076905 Mbit/s Total # of lost/retransmitted segments: 87 (caused 2 window decreases) Packet loss rate: 39.9083% Total # of received congestion marks: 0 RTT min/avg/max = 105.988/117.020/134.245 ms	Time elapsed: 5715.89 milliseconds Total # of segments received: 132 Total size: 1048.58kB Goodput: 1.467594 Mbit/s Total # of lost/retransmitted segments: 31 (caused 2 window decreases) Packet loss rate: 19.1358% Total # of received congestion marks: 0 RTT min/avg/max = 475.788/519.730/545.375 ms	Time elapsed: 17234.9 milliseconds Total # of segments received: 132 Total size: 1048.58kB Goodput: 486.721972 kbit/s Total # of lost/retransmitted segments: 3 (caused 1 window decreases) Packet loss rate: 2.23881% Total # of received congestion marks: 0 RTT min/avg/max = 1000.749/1014.747/1030.603 ms	Time elapsed: 34308.2 milliseconds Total # of segments received: 132 Total size: 1048.58kB Goodput: 244.507546 kbit/s Total # of lost/retransmitted segments: 7 (caused 2 window decreases) Packet loss rate: 5.07246% Total # of received congestion marks: 0 RTT min/avg/max = 1991.404/2014.509/2036.930 ms
500 ms (- + 100 ms)					
FAILED (-r 3)					
Unlimited Retries: Time elapsed: 6073.7 milliseconds Total # of segments received: 132 Total size: 1048.58kB Goodput: 1.381137 Mbit/s Total # of lost/retransmitted segments: 27 (caused 1 window decreases) Packet loss rate: 17.0886% Total # of received congestion marks: 0 RTT min/avg/max = 429.948/609.167/766.771 ms					

Packet Loss Ratio					
0.1%	0.5%	1%	5%	10%	20%
Time elapsed: 273.737 milliseconds Total # of segments received: 132 Total size: 1048.58kB Goodput: 30.644808 Mbit/s Total # of lost/retransmitted segments: 5 (caused 1 window decreases) Packet loss rate: 3.67647% Total # of received congestion marks: 1 RTT min/avg/max = 3.403/12.484/24.980 ms	Time elapsed: 311.822 milliseconds Total # of segments received: 132 Total size: 1048.58kB Goodput: 26.901880 Mbit/s Total # of lost/retransmitted segments: 7 (caused 1 window decreases) Packet loss rate: 5.07246% Total # of received congestion marks: 1 RTT min/avg/max = 2.194/8.842/18.993 ms	Time elapsed: 287.691 milliseconds Total # of segments received: 132 Total size: 1048.58kB Goodput: 29.158425 Mbit/s Total # of lost/retransmitted segments: 10 (caused 1 window decreases) Packet loss rate: 7.0922% Total # of received congestion marks: 0 RTT min/avg/max = 2.006/28.147/54.573 ms	Time elapsed: 1079.41 milliseconds Total # of segments received: 132 Total size: 1048.58kB Goodput: 7.771456 Mbit/s Total # of lost/retransmitted segments: 52 (caused 1 window decreases) Packet loss rate: 28.4153% Total # of received congestion marks: 0 RTT min/avg/max = 2.897/10.839/23.563 ms	Unlimited Retries: ----- Time elapsed: 16866.9 milliseconds Total # of segments received: 132 Total size: 1048.58kB Goodput: 497.341605 kbit/s Total # of lost/retransmitted segments: 120 (caused 19 window decreases) Packet loss rate: 47.8088% Total # of received congestion marks: 0 RTT min/avg/max = 1.321/2.902/9.439 ms TCP Tunnel: ----- Time elapsed: 1590.94 milliseconds Total # of segments received: 132 Total size: 1048.58kB Goodput: 5.272731 Mbit/s Total # of lost/retransmitted segments: 36 (caused 2 window decreases) Packet loss rate: 21.5569% Total # of received congestion marks: 8 RTT min/avg/max =	FAILED (-r 10) Unlimited Retries: ----- Time elapsed: 63214.3 milliseconds Total # of segments received: 132 Total size: 1048.58kB Goodput: 132.701177 kbit/s Total # of lost/retransmitted segments: 342 (caused 32 window decreases) Packet loss rate: 72.3044% Total # of received congestion marks: 0 RTT min/avg/max = 1.538/3.435/11.189 ms TCP Tunnel: ----- Time elapsed: 25513.1 milliseconds Total # of segments received: 132 Total size: 1048.58kB Goodput: 328.795722 kbit/s Total # of lost/retransmitted segments: 54 (caused 6 window decreases) Packet loss rate: 29.1892% Total # of received congestion marks: 9 RTT min/avg/max = 2.666/383.900/2799.962 ms