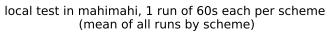
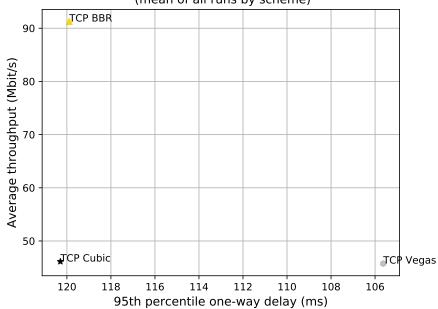
## Pantheon Report

Generated at 2025-04-17 16:21:47 (UTC).

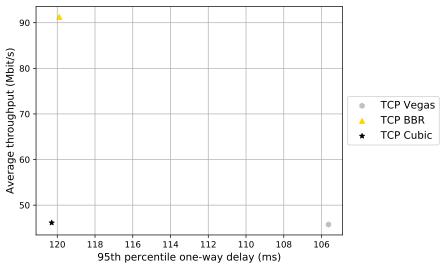
Tested in mahimahi: mm-delay 100 mm-link 1mbps.trace 1mbps.trace Repeated the test of 3 congestion control schemes once. Each test lasted for 60 seconds running 1 flow. System info: Linux 5.15.0-67-generic net.core.default\_qdisc = fq net.core.rmem\_default = 212992  $net.core.rmem_max = 212992$ net.core.wmem\_default = 212992  $net.core.wmem_max = 212992$  $net.ipv4.tcp\_rmem = 4096 131072 6291456$  $net.ipv4.tcp\_wmem = 4096 16384 4194304$ Git summary: branch: master @ 23e738ce5acae1d36e321886cd613b0b9401ac11 third\_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519 third\_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9 third\_party/genericCC @ d0153f8e594aa89e93b032143cedbdfe58e562f4 third\_party/indigo @ 463d89b09699a57bfdfbae351646df6a60040b90 third\_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf third\_party/pantheon-tunnel @ f866d3f58d27afd942717625ee3a354cc2e802bd M src/packet/Makefile.am M src/util/Makefile.am third\_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1 M receiver/src/buffer.h M receiver/src/core.cpp M sender/src/buffer.h M sender/src/core.cpp third\_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab third\_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42 third\_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2 third\_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26 third\_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494 third\_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4

third\_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851









		mean avg tput (Mbit/s)	mean 95th-%ile delay (ms)	mean loss rate (%)
scheme	# runs	flow 1	flow 1	flow 1
TCP BBR	1	91.26	119.89	1.02
TCP Cubic	1	46.14	120.30	0.26
TCP Vegas	1	45.75	105.63	0.34

## Run 1: Statistics of TCP BBR

Start at: 2025-04-17 16:18:58 End at: 2025-04-17 16:19:58

# Below is generated by plot.py at 2025-04-17 16:21:20

# Datalink statistics
-- Total of 1 flow:

Average capacity: 720.01 Mbit/s

Average throughput: 91.26 Mbit/s (12.7% utilization) 95th percentile per-packet one-way delay: 119.893 ms

Loss rate: 1.02%

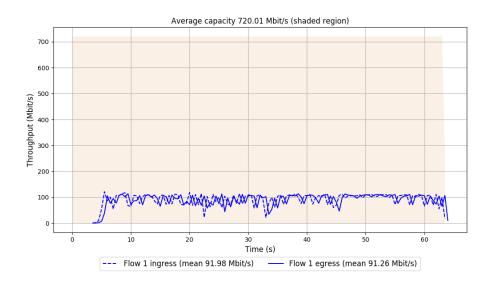
-- Flow 1:

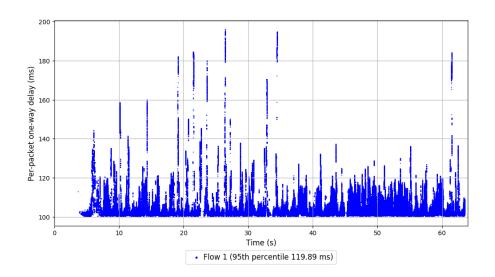
Average throughput: 91.26 Mbit/s

95th percentile per-packet one-way delay: 119.893 ms

Loss rate: 1.02%

Run 1: Report of TCP BBR — Data Link





## Run 1: Statistics of TCP Cubic

Start at: 2025-04-17 16:17:25 End at: 2025-04-17 16:18:25

# Below is generated by plot.py at 2025-04-17 16:21:33

# Datalink statistics
-- Total of 1 flow:

Average capacity: 720.01 Mbit/s

Average throughput: 46.14 Mbit/s (6.4% utilization) 95th percentile per-packet one-way delay: 120.296 ms

Loss rate: 0.26%

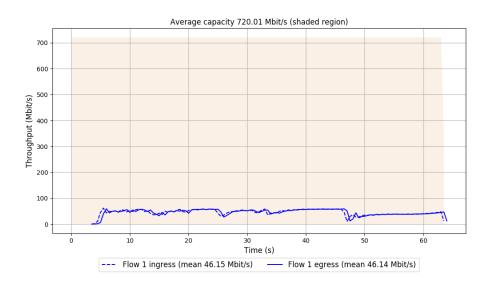
-- Flow 1:

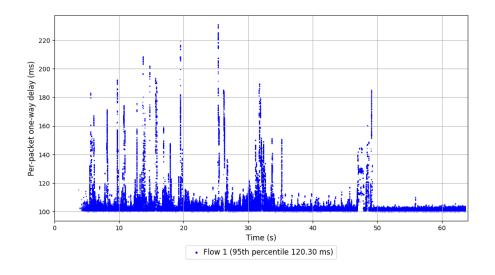
Average throughput: 46.14 Mbit/s

95th percentile per-packet one-way delay: 120.296 ms

Loss rate: 0.26%

Run 1: Report of TCP Cubic — Data Link





## Run 1: Statistics of TCP Vegas

Start at: 2025-04-17 16:15:47 End at: 2025-04-17 16:16:47

# Below is generated by plot.py at 2025-04-17 16:21:46

# Datalink statistics
-- Total of 1 flow:

Average capacity: 720.01 Mbit/s

Average throughput: 45.75 Mbit/s (6.4% utilization) 95th percentile per-packet one-way delay: 105.631 ms

Loss rate: 0.34%

-- Flow 1:

Average throughput: 45.75 Mbit/s

95th percentile per-packet one-way delay: 105.631 ms

Loss rate: 0.34%

Run 1: Report of TCP Vegas — Data Link

