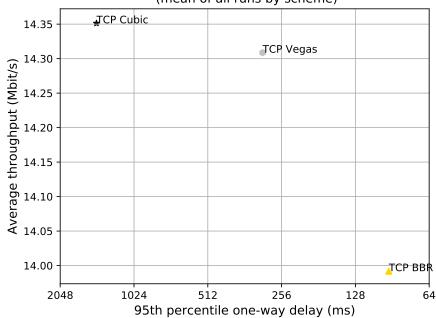
Pantheon Report

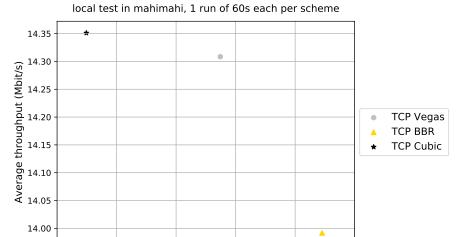
Generated at 2025-04-17 02:15:34 (UTC).

Tested in mahimahi: mm-delay 5 mm-link 50mbps.trace 50mbps.trace Repeated the test of 3 congestion control schemes once. Each test lasted for 60 seconds running 1 flow. System info: Linux 5.4.0-212-generic net.core.default_qdisc = fq_codel 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

local test in mahimahi, 1 run of 60s each per scheme (mean of all runs by scheme)





95th percentile one-way delay (ms)

		mean avg tput (Mbit/s)	mean 95th-%ile delay (ms)	mean loss rate (%)
scheme	# runs	flow 1	flow 1	flow 1
TCP BBR	1	13.99	93.53	0.00
TCP Cubic	1	14.35	1456.58	1.26
TCP Vegas	1	14.31	305.96	0.18

Run 1: Statistics of TCP BBR

Start at: 2025-04-17 02:12:28 End at: 2025-04-17 02:13:28

Below is generated by plot.py at 2025-04-17 02:15:33

Datalink statistics
-- Total of 1 flow:

Average capacity: 14.41 Mbit/s

Average throughput: 13.99 Mbit/s (97.1% utilization) 95th percentile per-packet one-way delay: 93.527 ms

Loss rate: 0.00%

-- Flow 1:

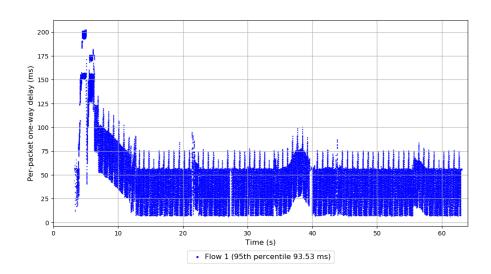
Average throughput: 13.99 Mbit/s

95th percentile per-packet one-way delay: 93.527 ms

Loss rate: 0.00%

Run 1: Report of TCP BBR — Data Link





Run 1: Statistics of TCP Cubic

Start at: 2025-04-17 02:11:24 End at: 2025-04-17 02:12:24

Below is generated by plot.py at 2025-04-17 02:15:33

Datalink statistics
-- Total of 1 flow:

Average capacity: 14.41 Mbit/s

Average throughput: 14.35 Mbit/s (99.6% utilization) 95th percentile per-packet one-way delay: 1456.583 ms

Loss rate: 1.26%

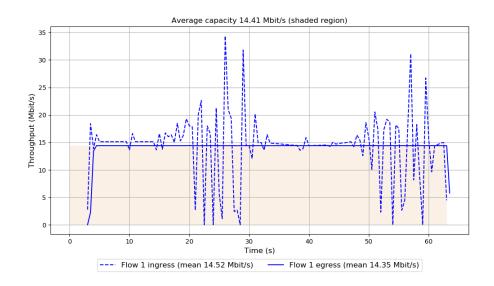
-- Flow 1:

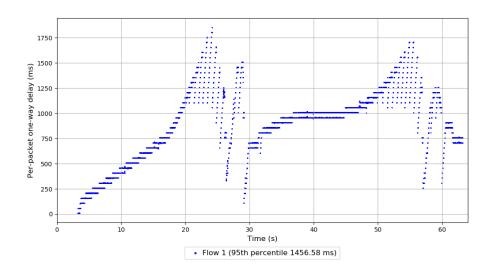
Average throughput: 14.35 Mbit/s

95th percentile per-packet one-way delay: 1456.583 ms

Loss rate: 1.26%

Run 1: Report of TCP Cubic — Data Link





Run 1: Statistics of TCP Vegas

Start at: 2025-04-17 02:13:33 End at: 2025-04-17 02:14:33

Below is generated by plot.py at 2025-04-17 02:15:33

Datalink statistics
-- Total of 1 flow:

Average capacity: 14.41 Mbit/s

Average throughput: 14.31 Mbit/s (99.3% utilization) 95th percentile per-packet one-way delay: 305.964 ms

Loss rate: 0.18%

-- Flow 1:

Average throughput: 14.31 Mbit/s

95th percentile per-packet one-way delay: 305.964 ms

Loss rate: 0.18%

Run 1: Report of TCP Vegas — Data Link

