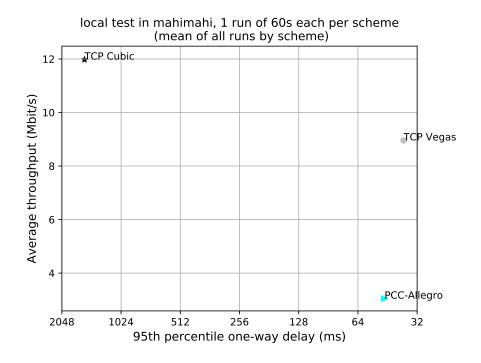
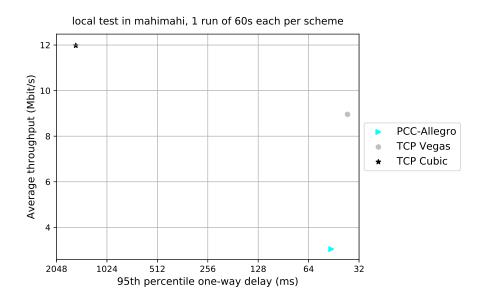
## Pantheon Report

Generated at 2025-04-18 01:01:45 (UTC). Tested in mahimahi: mm-link 1mbps.trace 1mbps.trace mm-delay 10 Repeated the test of 3 congestion control schemes once. Each test lasted for 60 seconds running 1 flow. System info: Linux 5.4.0-84-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 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 M src/ScreamClient M src/ScreamServer third\_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26 M src/examples/cellsim.cc M src/examples/sproutbt2.cc M src/network/sproutconn.cc third\_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494 M src/verus.hpp M tools/plot.py 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 Cubic	1	11.98	1571.16	2.57
PCC-Allegro	1	3.04	46.91	0.02
TCP Vegas	1	8.96	37.51	0.02

## Run 1: Statistics of TCP Cubic

Start at: 2025-04-18 00:47:39 End at: 2025-04-18 00:48:39

# Below is generated by plot.py at 2025-04-18 01:01:43

# Datalink statistics
-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 11.98 Mbit/s (99.8% utilization) 95th percentile per-packet one-way delay: 1571.163 ms

Loss rate: 2.57%

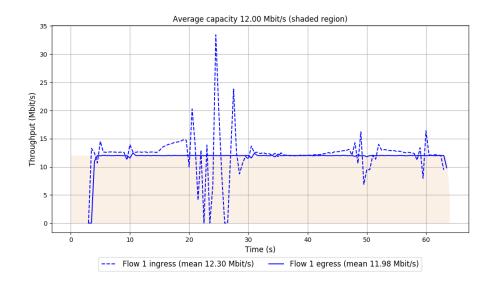
-- Flow 1:

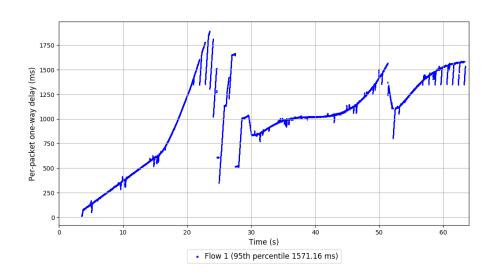
Average throughput: 11.98 Mbit/s

95th percentile per-packet one-way delay: 1571.163 ms

Loss rate: 2.57%

Run 1: Report of TCP Cubic — Data Link





## Run 1: Statistics of PCC-Allegro

Start at: 2025-04-18 00:46:33 End at: 2025-04-18 00:47:33

# Below is generated by plot.py at 2025-04-18 01:01:43

# Datalink statistics
-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 3.04 Mbit/s (25.4% utilization) 95th percentile per-packet one-way delay: 46.905 ms

Loss rate: 0.02%

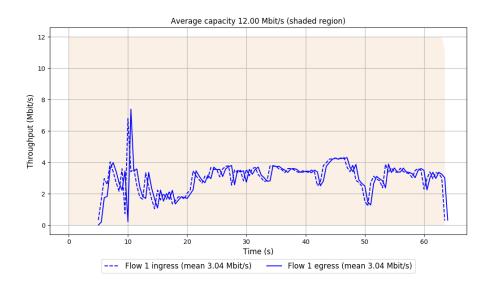
-- Flow 1:

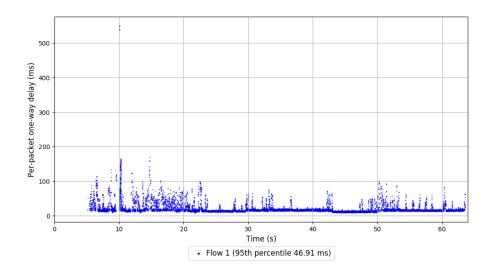
Average throughput: 3.04 Mbit/s

95th percentile per-packet one-way delay: 46.905 ms

Loss rate: 0.02%

Run 1: Report of PCC-Allegro — Data Link





## Run 1: Statistics of TCP Vegas

Start at: 2025-04-18 00:48:46 End at: 2025-04-18 00:49:46

# Below is generated by plot.py at 2025-04-18 01:01:43

# Datalink statistics
-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 8.96 Mbit/s (74.7% utilization) 95th percentile per-packet one-way delay: 37.511 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 8.96 Mbit/s

95th percentile per-packet one-way delay: 37.511 ms

Loss rate: 0.02%

Run 1: Report of TCP Vegas — Data Link

