

Pantheon Report

Generated at 2025-04-16 17:17:05 (UTC).

Tested in mahimahi: mm-delay 5 mm-link 50mbps.trace 50mbps.trace
--uplink-queue=droptail --downlink-queue=droptail --uplink-queue-args=packets=500
--downlink-queue-args=packets=500

Repeated the test of 1 congestion control schemes once.

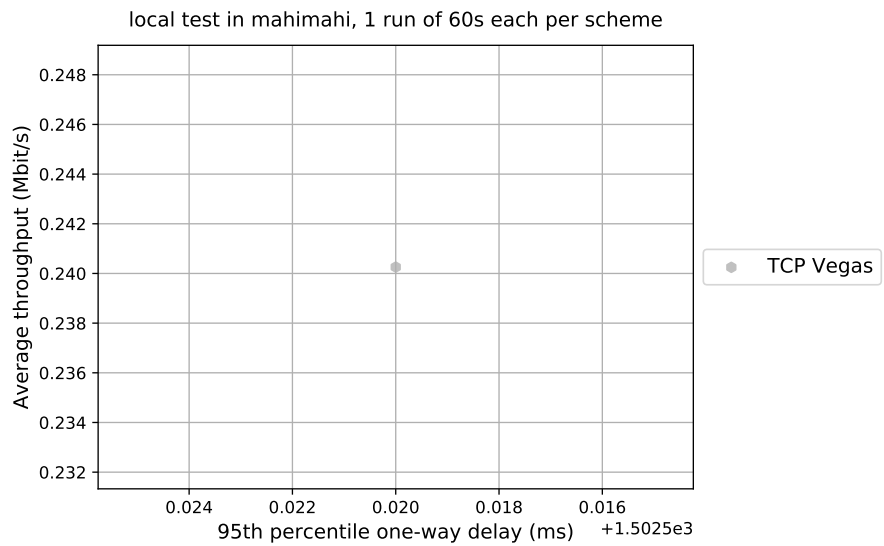
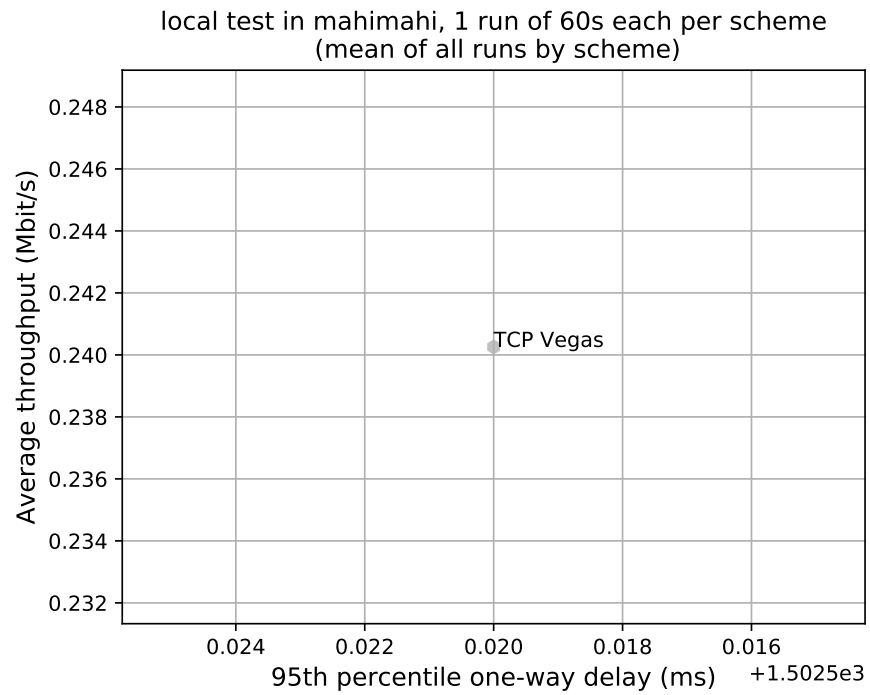
Each test lasted for 60 seconds running 1 flow.

System info:

Linux 5.15.0-136-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: main @ 60c3c83191be2ef60b728c50a40f9f013de92c77
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 463d89b09699a57bfdfbae351646df6a60040b90
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ f866d3f58d27afd942717625ee3a354cc2e802bd
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
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



| scheme | # runs | mean avg tput (Mbit/s) flow 1 | mean 95th-%ile delay (ms) flow 1 | mean loss rate (%) flow 1 |
|-----------|--------|----------------------------------|-------------------------------------|------------------------------|
| TCP Vegas | 1 | 0.24 | 1502.52 | 0.34 |

Run 1: Statistics of TCP Vegas

Start at: 2025-04-16 17:13:52

End at: 2025-04-16 17:14:52

Below is generated by plot.py at 2025-04-16 17:17:05

Datalink statistics

-- Total of 1 flow:

Average capacity: 34.11 Mbit/s

Average throughput: 0.24 Mbit/s (0.7% utilization)

95th percentile per-packet one-way delay: 1502.520 ms

Loss rate: 0.34%

-- Flow 1:

Average throughput: 0.24 Mbit/s

95th percentile per-packet one-way delay: 1502.520 ms

Loss rate: 0.34%

Run 1: Report of TCP Vegas — Data Link

