## Pantheon Report

Generated at 2025-04-25 08:04:52 (UTC).

Tested in mahimahi: mm-link Verizon-LTE-driving.up Verizon-LTE-driving.down Repeated the test of 3 congestion control schemes once.

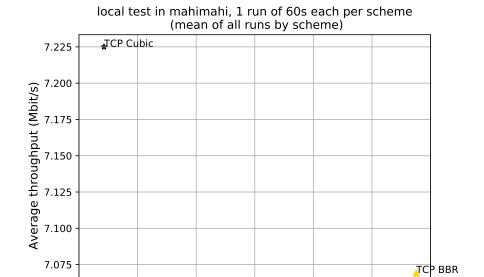
Each test lasted for 60 seconds running 1 flow.

#### System info:

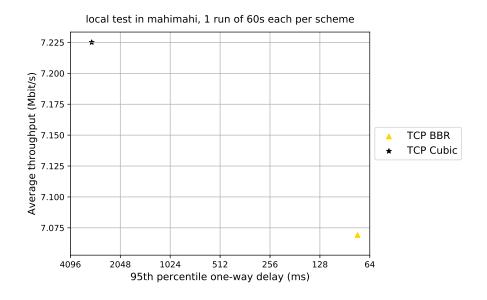
Linux 5.4.0-84-generic
net.core.default\_qdisc = fq\_codel
net.core.rmem\_default = 212992
net.core.rmem\_max = 212992
net.core.wmem\_default = 212992
net.core.wmem\_max = 212992
net.ipv4.tcp\_rmem = 4096 131072 6291456
net.ipv4.tcp\_wmem = 4096 16384 4194304

#### 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
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



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	7.07	75.86	0.08
TCP Cubic	1	7.23	3046.52	3.85
TCP Vegas	0	N/A	N/A	N/A

### Run 1: Statistics of TCP BBR

Start at: 2025-04-25 08:00:24 End at: 2025-04-25 08:01:24

# Below is generated by plot.py at 2025-04-25 08:04:46

# Datalink statistics
-- Total of 1 flow:

Average capacity: 7.23 Mbit/s

Average throughput: 7.07 Mbit/s (97.8% utilization) 95th percentile per-packet one-way delay: 75.860 ms

Loss rate: 0.08%

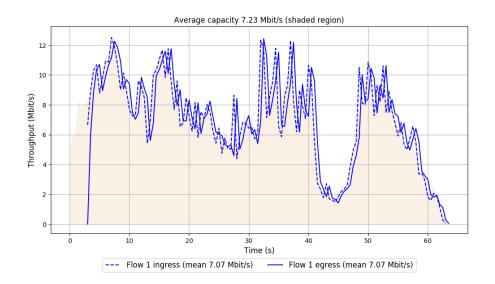
-- Flow 1:

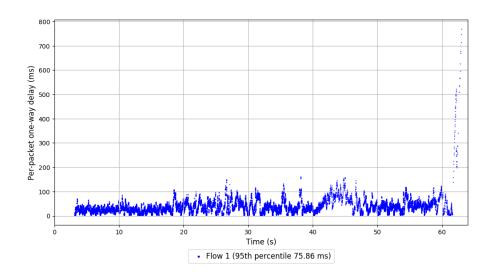
Average throughput: 7.07 Mbit/s

95th percentile per-packet one-way delay: 75.860 ms

Loss rate: 0.08%

Run 1: Report of TCP BBR — Data Link





### Run 1: Statistics of TCP Cubic

Start at: 2025-04-25 07:59:13 End at: 2025-04-25 08:00:13

# Below is generated by plot.py at 2025-04-25 08:04:47

# Datalink statistics
-- Total of 1 flow:

Average capacity: 7.23 Mbit/s

Average throughput: 7.23 Mbit/s (100.0% utilization) 95th percentile per-packet one-way delay: 3046.516 ms

Loss rate: 3.85%

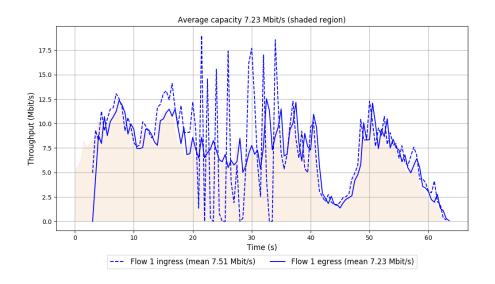
-- Flow 1:

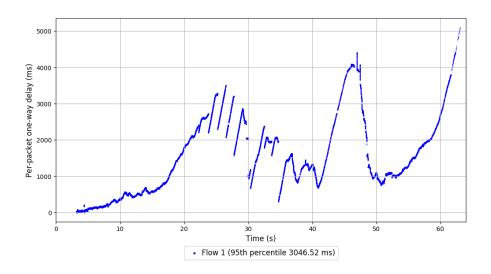
Average throughput: 7.23 Mbit/s

95th percentile per-packet one-way delay: 3046.516 ms

Loss rate: 3.85%

Run 1: Report of TCP Cubic — Data Link





Run 1: Statistics of TCP Vegas

Start at: 2025-04-25 08:01:34 End at: 2025-04-25 08:02:34

# Run 1: Report of TCP Vegas — Data Link

Figure is missing

Figure is missing