

## Pantheon Report

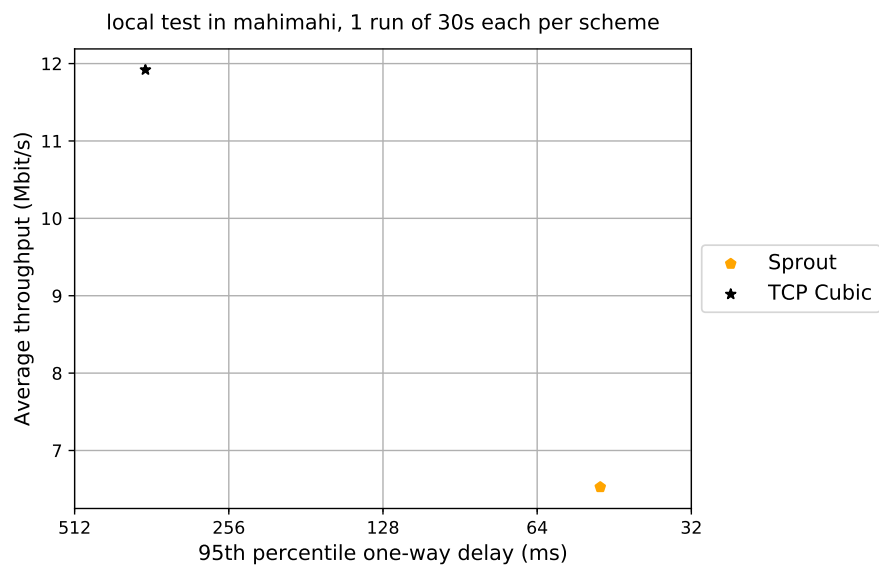
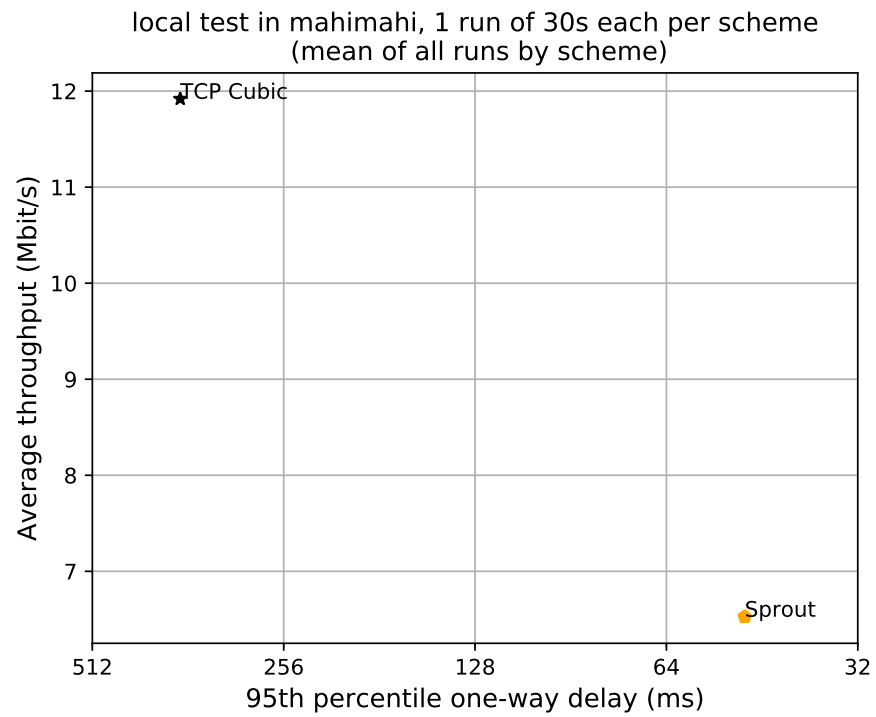
Generated at 2025-04-17 17:40:52 (UTC).  
Tested in mahimahi: mm-link 12mbps.trace 12mbps.trace  
Repeated the test of 2 congestion control schemes once.  
Each test lasted for 30 seconds running 1 flow.

### System info:

Linux 5.4.0-150-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 @ 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  
M src/examples/cellsim.cc  
M src/examples/sproutbt2.cc  
M src/network/sproutconn.cc  
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 Cubic	1	11.92	372.39	1.42
Sprout	1	6.53	48.19	0.00

Run 1: Statistics of TCP Cubic

Start at: 2025-04-17 17:38:45

End at: 2025-04-17 17:39:15

# Below is generated by plot.py at 2025-04-17 17:40:40

# Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 11.92 Mbit/s (99.3% utilization)

95th percentile per-packet one-way delay: 372.393 ms

Loss rate: 1.42%

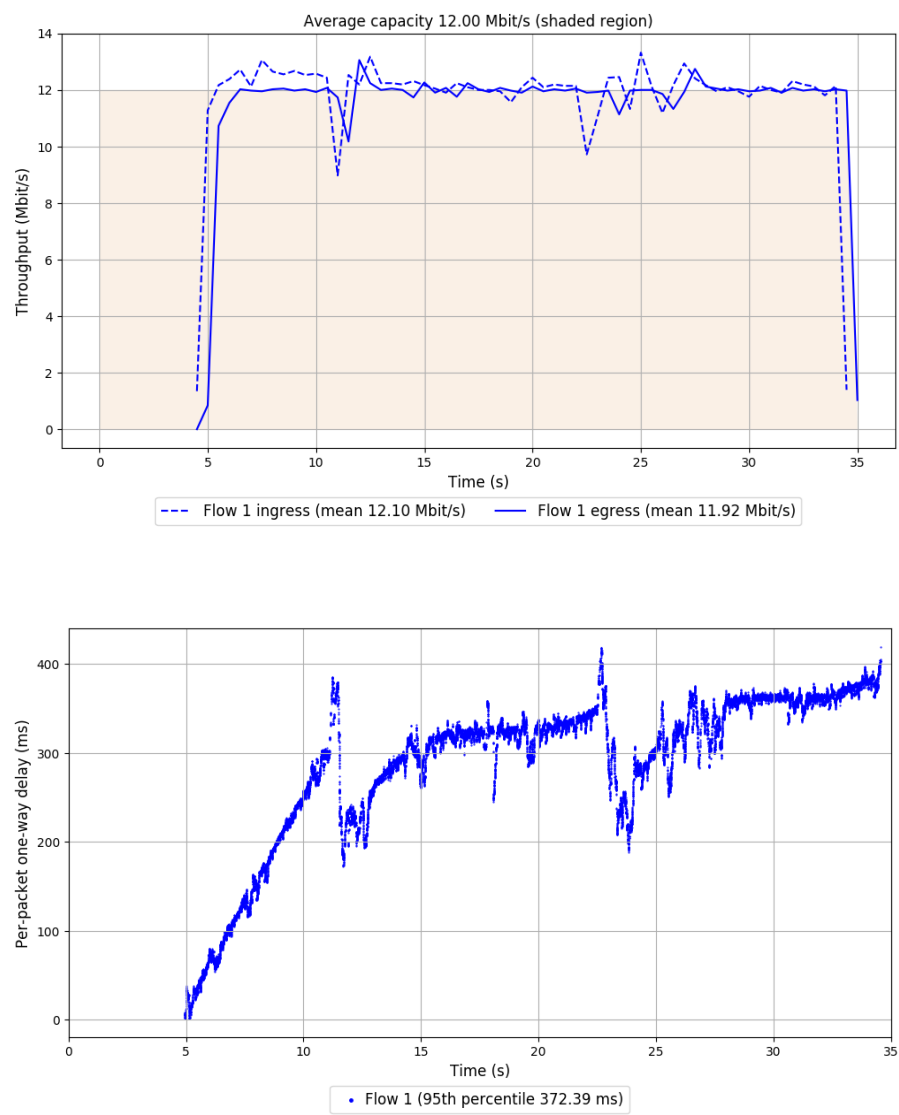
-- Flow 1:

Average throughput: 11.92 Mbit/s

95th percentile per-packet one-way delay: 372.393 ms

Loss rate: 1.42%

Run 1: Report of TCP Cubic — Data Link



Run 1: Statistics of Sprout

Start at: 2025-04-17 17:39:29

End at: 2025-04-17 17:39:59

# Below is generated by plot.py at 2025-04-17 17:40:40

# Datalink statistics

-- Total of 1 flow:

Average capacity: 12.00 Mbit/s

Average throughput: 6.53 Mbit/s (54.4% utilization)

95th percentile per-packet one-way delay: 48.192 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 6.53 Mbit/s

95th percentile per-packet one-way delay: 48.192 ms

Loss rate: 0.00%

Run 1: Report of Sprout — Data Link

