

Pantheon Report

Generated at 2025-04-16 02:45:58 (UTC).

Tested in mahimahi: mm-link 48mbps.trace 48mbps.trace mm-delay 5

Repeated the test of 3 congestion control schemes once.

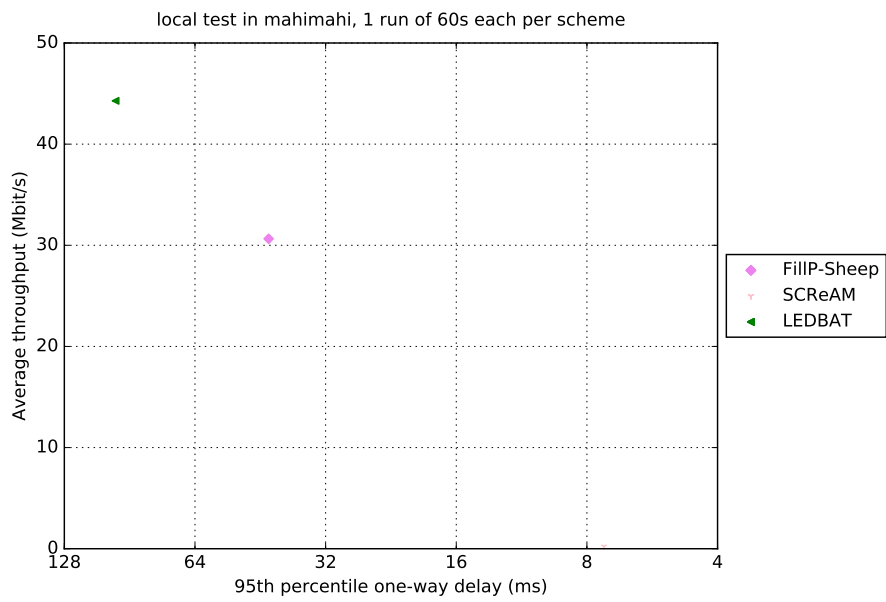
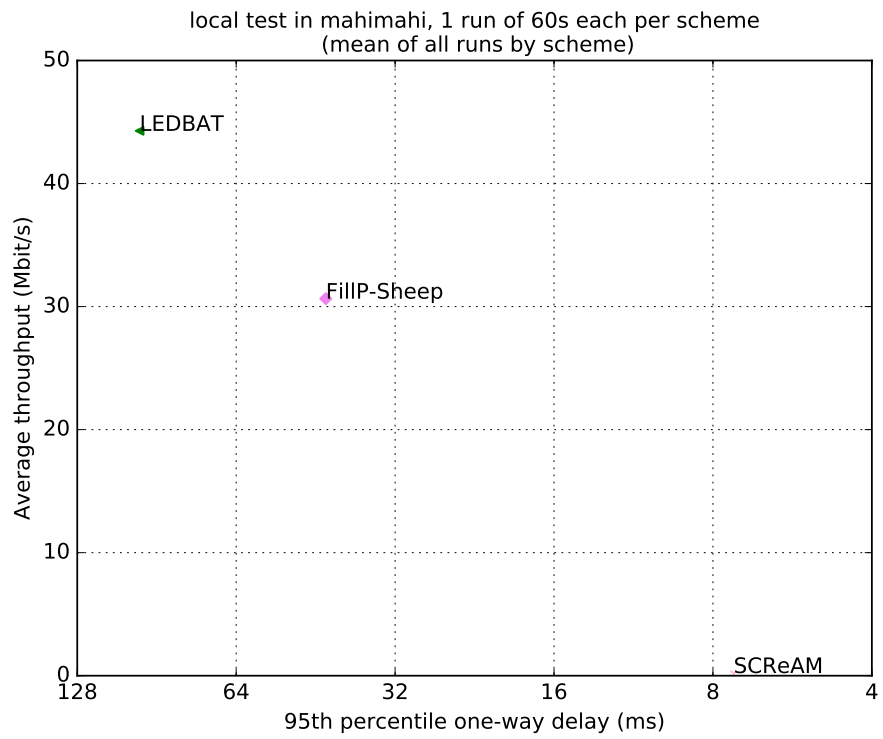
Each test lasted for 60 seconds running 1 flow.

System info:

```
Linux 4.15.0-112-generic
net.core.default_qdisc = pfifo_fast
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 @ d0153f8e594aa89e93b032143cedbdfef58e562f4
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
FillP-Sheep	1	30.64	43.29	3.71
LEDBAT	1	44.28	97.54	0.17
SCReAM	1	0.22	7.31	0.00

Run 1: Statistics of FillP-Sheep

Start at: 2025-04-16 02:42:00

End at: 2025-04-16 02:43:00

Below is generated by plot.py at 2025-04-16 02:45:49

Datalink statistics

-- Total of 1 flow:

Average capacity: 48.00 Mbit/s

Average throughput: 30.64 Mbit/s (63.8% utilization)

95th percentile per-packet one-way delay: 43.293 ms

Loss rate: 3.71%

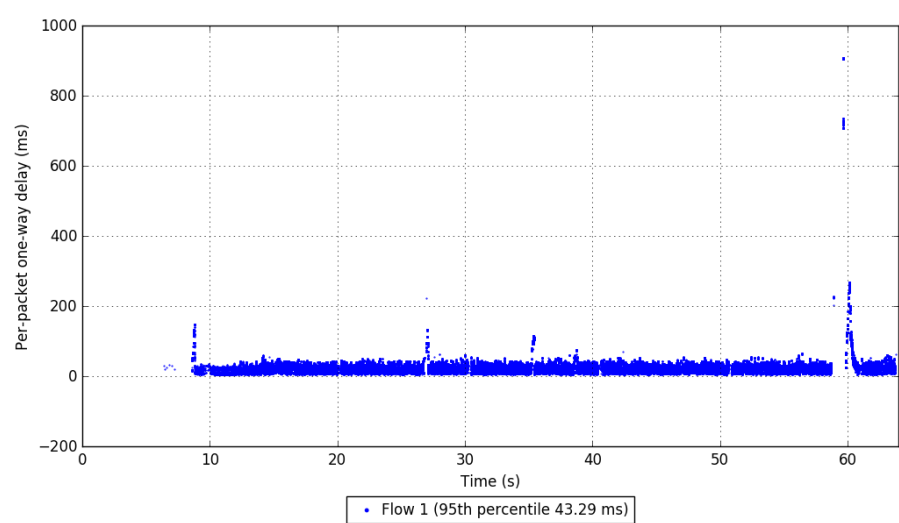
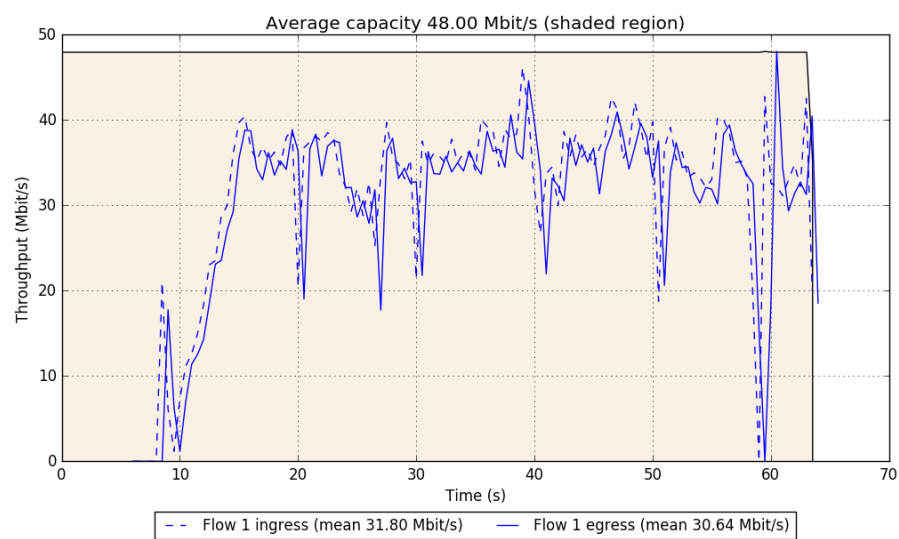
-- Flow 1:

Average throughput: 30.64 Mbit/s

95th percentile per-packet one-way delay: 43.293 ms

Loss rate: 3.71%

Run 1: Report of FillP-Sheep — Data Link



Run 1: Statistics of LEDBAT

Start at: 2025-04-16 02:43:09

End at: 2025-04-16 02:44:09

Below is generated by plot.py at 2025-04-16 02:45:55

Datalink statistics

-- Total of 1 flow:

Average capacity: 48.00 Mbit/s

Average throughput: 44.28 Mbit/s (92.2% utilization)

95th percentile per-packet one-way delay: 97.537 ms

Loss rate: 0.17%

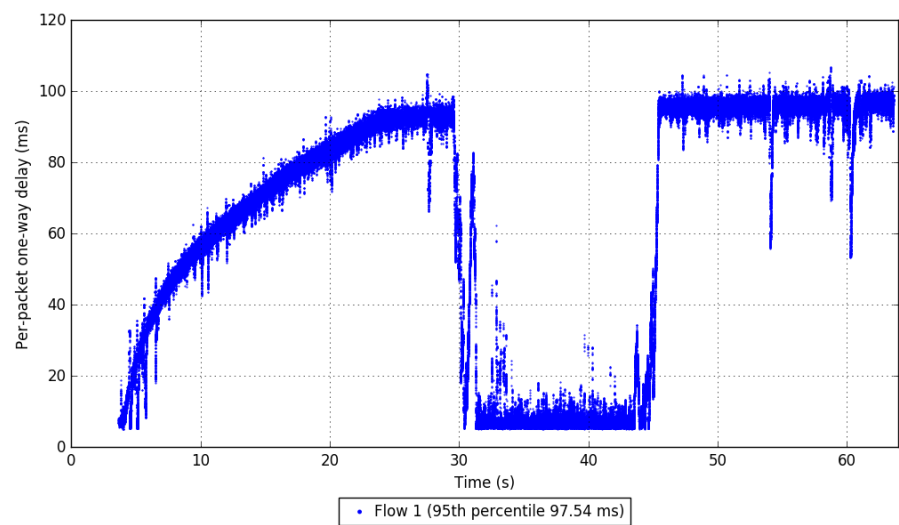
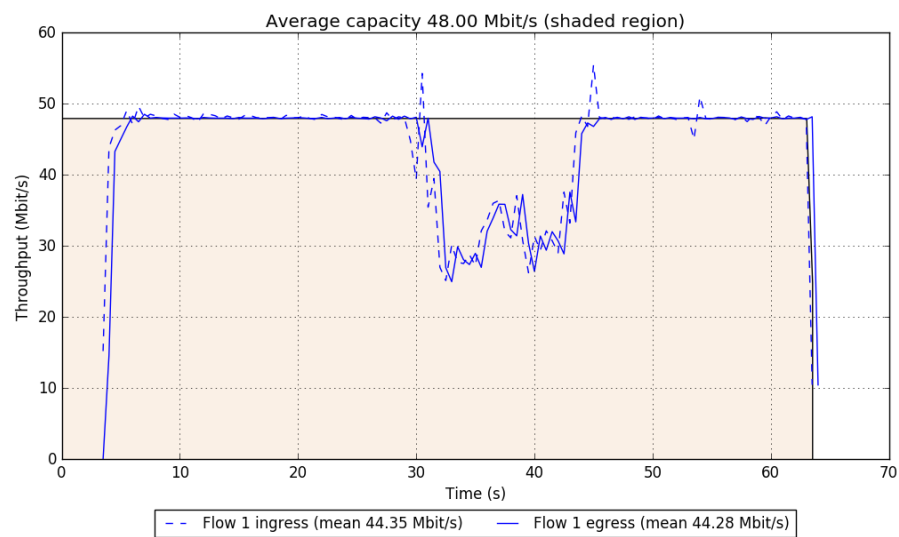
-- Flow 1:

Average throughput: 44.28 Mbit/s

95th percentile per-packet one-way delay: 97.537 ms

Loss rate: 0.17%

Run 1: Report of LEDBAT — Data Link



Run 1: Statistics of SCReAM

Start at: 2025-04-16 02:40:53

End at: 2025-04-16 02:41:53

Below is generated by plot.py at 2025-04-16 02:45:56

Datalink statistics

-- Total of 1 flow:

Average capacity: 48.00 Mbit/s

Average throughput: 0.22 Mbit/s (0.5% utilization)

95th percentile per-packet one-way delay: 7.309 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 7.309 ms

Loss rate: 0.00%

Run 1: Report of SReAM — Data Link

