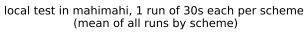
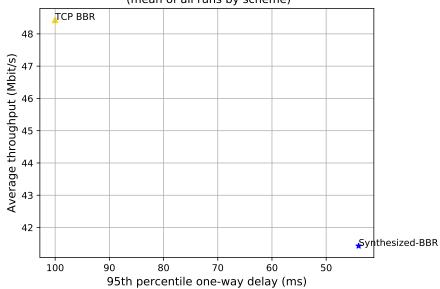
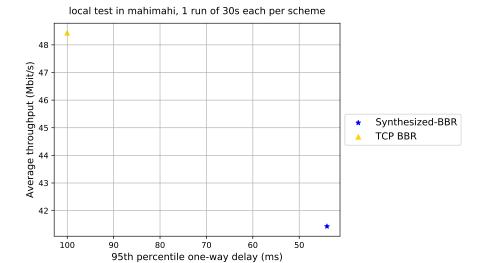
## Pantheon Report

Generated at 2019-10-04 23:40:55 (UTC).

Tested in mahimahi: mm-link 50mbps.trace 50mbps.trace mm-delay 30 Repeated the test of 2 congestion control schemes once. Each test lasted for 30 seconds running 1 flow. System info: Linux 4.15.0-65-generic net.core.default\_qdisc = fq net.core.rmem\_default = 212992  $net.core.rmem_max = 212992$ net.core.wmem\_default = 212992  $net.core.wmem_max = 212992$  $net.ipv4.tcp\_rmem = 4096 87380 6291456$ net.ipv4.tcp\_wmem = 4096 16384 4194304 Git summary: branch: master @ 6d946435a37de6b2be4a6283acf8ae600c6dfe23 third\_party/aurora @ f3e943d61015b39960854ba6391797e0c7984d74 third\_party/aurora-model @ e292c316c23fb837255c4e142e40590d154bbe95 third\_party/eagle-v1 @ c68d985e042be5c30704c0aee48c363861951a95 third\_party/eagle-v2 @ c8a1737b3c84d7d49eada5b8785045d272a70120 third\_party/eagle-v3 @ 27045f2c9e7b63716dab4980f0a45a660dff3d51 third\_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519 third\_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9 third\_party/genericCC @ d0153f8e594aa89e93b032143cedbdfe58e562f4 third\_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d 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/synthesizedBBR @ 27045f2c9e7b63716dab4980f0a45a660dff3d51 M sender-receiver/sender-receiver/sender\_receiver/envs/sender\_receiver\_env.py 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 BBR	1	48.43	100.02	0.32
Synthesized-BBR	1	41.43	44.01	0.10

## Run 1: Statistics of TCP BBR

Start at: 2019-10-04 23:39:11 End at: 2019-10-04 23:39:41

# Below is generated by plot.py at 2019-10-04 23:40:53

# Datalink statistics
-- Total of 1 flow:

Average capacity: 50.00 Mbit/s

Average throughput: 48.43 Mbit/s (96.9% utilization) 95th percentile per-packet one-way delay: 100.018 ms

Loss rate: 0.32%

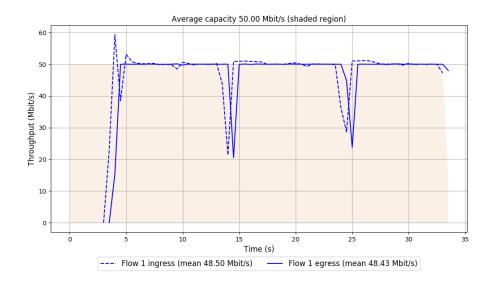
-- Flow 1:

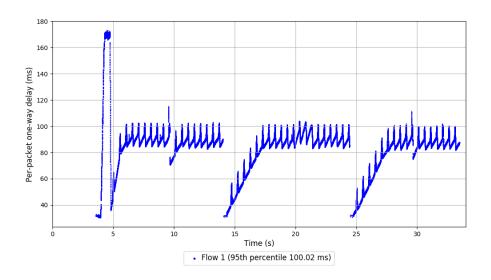
Average throughput: 48.43 Mbit/s

95th percentile per-packet one-way delay: 100.018 ms

Loss rate: 0.32%

Run 1: Report of TCP BBR — Data Link





## Run 1: Statistics of Synthesized-BBR

Start at: 2019-10-04 23:39:47 End at: 2019-10-04 23:40:17

# Below is generated by plot.py at 2019-10-04 23:40:54

# Datalink statistics
-- Total of 1 flow:

Average capacity: 50.00 Mbit/s

Average throughput: 41.43~Mbit/s (82.9% utilization) 95th percentile per-packet one-way delay: 44.010~ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 41.43 Mbit/s

95th percentile per-packet one-way delay: 44.010 ms

Loss rate: 0.10%

Run 1: Report of Synthesized-BBR — Data Link

