Pantheon Report

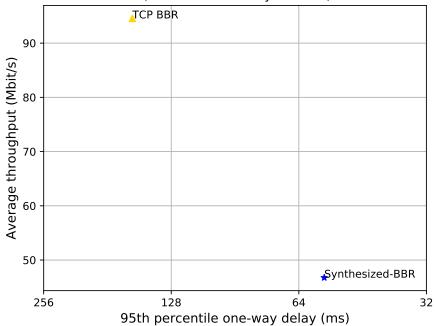
Generated at 2019-10-04 22:42:49 (UTC).

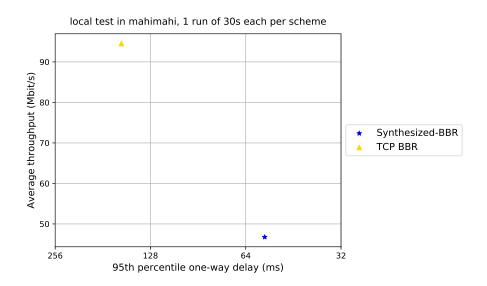
Tested in mahimahi: mm-delay 50 mm-link 100mbps.trace 100mbps.trace Repeated the test of 2 congestion control schemes once. Each test lasted for 30 seconds running 1 flow. System info: Linux 4.15.0-65-generic net.core.default_qdisc = fq net.core.rmem_default = 212992 $net.core.rmem_max = 212992$ net.core.wmem_default = 212992 $net.core.wmem_max = 212992$ $net.ipv4.tcp_rmem = 4096 87380 6291456$ $net.ipv4.tcp_wmem = 4096 16384 4194304$ Git summary: branch: master @ 7029f0665defeeee2c08da9f338d38b5ad69bab8 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

third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494

M src/verus.hpp
M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851

local test in mahimahi, 1 run of 30s each per scheme (mean of all runs by scheme)





		mean avg tput (Mbit/s)	mean 95th-%ile delay (ms)	mean loss rate (%)
scheme	# runs	flow 1	flow 1	flow 1
TCP BBR	1	94.55	158.11	0.49
Synthesized-BBR	1	46.75	55.74	0.79

Run 1: Statistics of TCP BBR

Start at: 2019-10-04 22:40:28 End at: 2019-10-04 22:40:58

Below is generated by plot.py at 2019-10-04 22:42:47

Datalink statistics
-- Total of 1 flow:

Average capacity: 100.00 Mbit/s

Average throughput: 94.55 Mbit/s (94.6% utilization) 95th percentile per-packet one-way delay: 158.113 ms

Loss rate: 0.49%

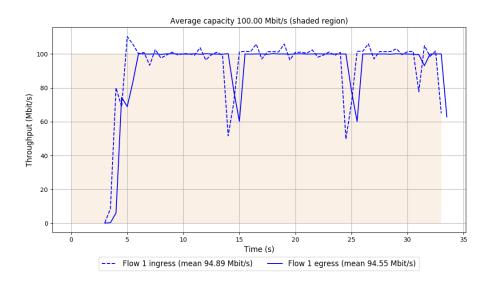
-- Flow 1:

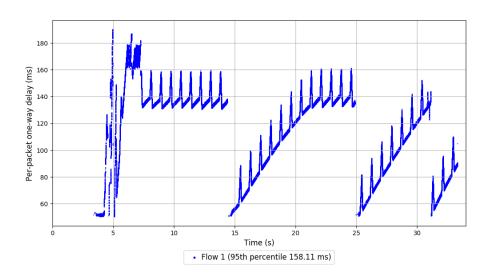
Average throughput: 94.55 Mbit/s

95th percentile per-packet one-way delay: 158.113 ms

Loss rate: 0.49%

Run 1: Report of TCP BBR — Data Link





Run 1: Statistics of Synthesized-BBR

Start at: 2019-10-04 22:41:07 End at: 2019-10-04 22:41:37

Below is generated by plot.py at 2019-10-04 22:42:47

Datalink statistics
-- Total of 1 flow:

Average capacity: 100.00 Mbit/s

Average throughput: 46.75~Mbit/s (46.8%~utilization) 95th percentile per-packet one-way delay: 55.743~ms

Loss rate: 0.79%

-- Flow 1:

Average throughput: 46.75 Mbit/s

95th percentile per-packet one-way delay: 55.743 ms

Loss rate: 0.79%

Run 1: Report of Synthesized-BBR — Data Link

