Pantheon Report

Tested in mahimahi: mm-link Verizon-LTE-short.up Verizon-LTE-short.down

Generated at 2019-08-01 01:13:47 (UTC).

Repeated the test of 2 congestion control schemes once. Each test lasted for 30 seconds running 1 flow. System info: Linux 4.15.0-55-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 @ 06ce04185daf9181a3dae6ba62a1200f4436193e third_party/aurora @ f3e943d61015b39960854ba6391797e0c7984d74 third_party/aurora-model @ e292c316c23fb837255c4e142e40590d154bbe95 third_party/eagle @ f66d3a824f0abdd3b1d0afc0cc323607b2c38eca M sender-receiver/sender-receiver/sender_receiver/envs/example-xentropy.py third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519 third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9 third_party/genericCC @ d0153f8e594aa89e93b032143cedbdfe58e562f4 third_party/gold @ e47bed6d7495aa223eec8de2c7a43035967074ef M environment/__pycache__/datagram_pb2.cpython-36.opt-1.pyc M environment/_pycache__/datagram_pb2.cpython-36.pyc M environment/_pycache__/environment.cpython-36.opt-1.pyc M environment/_pycache__/helpers.cpython-36.opt-1.pyc M environment/__pycache__/helpers.cpython-36.pyc M environment/__pycache__/mahimahi.cpython-36.opt-1.pyc M environment/__pycache__/project_root.cpython-36.opt-1.pyc M environment/__pycache__/project_root.cpython-36.pyc M environment/__pycache__/receiver.cpython-36.opt-1.pyc M environment/__pycache__/receiver.cpython-36.pyc M environment/logs.txt M model third_party/goldLSTM @ 6b512ee75b163fd680d7bf3cde4cf6d6aa7102c4 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

 $\label{third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42 third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2 \\$

M src/ScreamClient

M src/ScreamServer

third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26

M src/examples/cellsim.cc

M src/examples/sproutbt2.cc

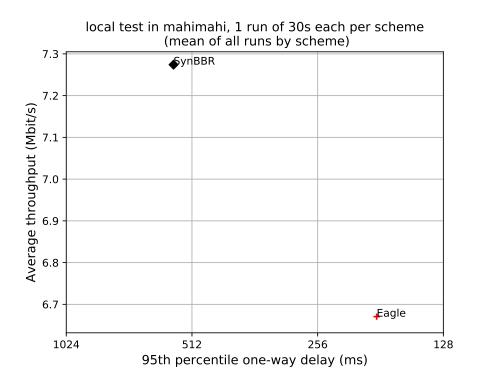
M src/network/sproutconn.cc

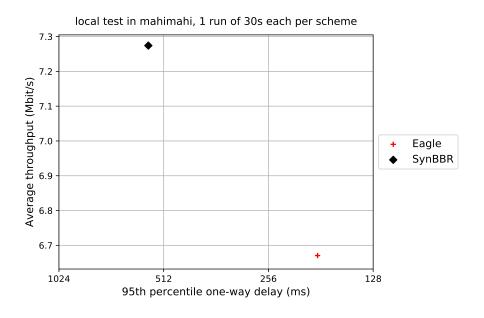
 $\label{third_party/synthesizedBBR @ f66d3a824f0abdd3b1d0afc0cc323607b2c38ecathird_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494$

M src/verus.hpp

M tools/plot.py

 $\label{third_party/vivace} \ @ \ 2baf86211435ae071a32f96b7d8c504587f5d7f4third_party/webrtc \ @ \ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851third_party/webrtc \ @ \ 3f0cc2a9061a41b6f9dde473570d143a1fa2851third_party/webrtc \ @ \ 3$





		mean avg tput (Mbit/s)	mean 95th-%ile delay (ms)	mean loss rate (%)
scheme	# runs	flow 1	flow 1	flow 1
Eagle	1	6.67	184.94	0.07
SynBBR	1	7.27	566.67	0.14

Run 1: Statistics of Eagle

Start at: 2019-08-01 01:12:10 End at: 2019-08-01 01:12:40

Below is generated by plot.py at 2019-08-01 01:13:46

Datalink statistics
-- Total of 1 flow:

Average capacity: 7.52 Mbit/s

Average throughput: 6.67 Mbit/s (88.7% utilization) 95th percentile per-packet one-way delay: 184.940 ms

Loss rate: 0.07%

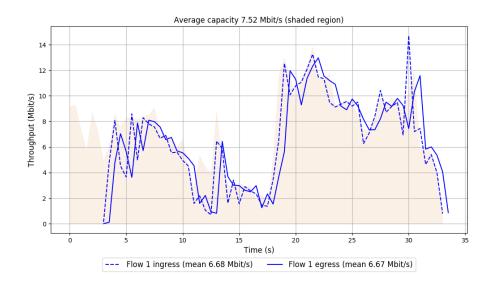
-- Flow 1:

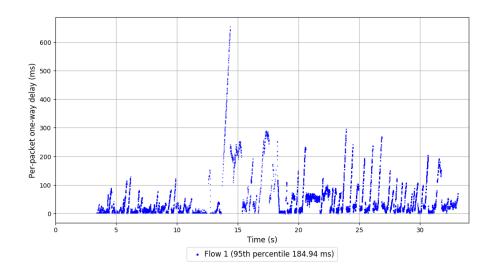
Average throughput: 6.67 Mbit/s

95th percentile per-packet one-way delay: 184.940 ms

Loss rate: 0.07%

Run 1: Report of Eagle — Data Link





Run 1: Statistics of SynBBR

Start at: 2019-08-01 01:12:44 End at: 2019-08-01 01:13:14

Below is generated by plot.py at 2019-08-01 01:13:46

Datalink statistics
-- Total of 1 flow:

Average capacity: 7.52 Mbit/s

Average throughput: 7.27 Mbit/s (96.8% utilization) 95th percentile per-packet one-way delay: 566.669 ms

Loss rate: 0.14%

-- Flow 1:

Average throughput: 7.27 Mbit/s

95th percentile per-packet one-way delay: 566.669 ms

Loss rate: 0.14%

Run 1: Report of SynBBR — Data Link

