Pantheon Report

Tested in mahimahi: mm-delay 40 mm-link 120mbps.trace 120mbps.trace

Generated at 2019-07-30 20:30:09 (UTC).

Repeated the test of 1 congestion control schemes once.

Each test lasted for 30 seconds running 3 flows with 10-second interval between two flows. System info: Linux 4.15.0-54-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 @ f46b7ef5c2843f550a5ff7b9b593aeec48a7c712 third_party/aurora @ f3e943d61015b39960854ba6391797e0c7984d74 third_party/aurora-model @ e292c316c23fb837255c4e142e40590d154bbe95 third_party/eagle @ ce4c8d9511b8dfde83c08384f81b2617bfb10438 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

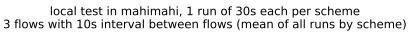
M src/network/sproutconn.cc

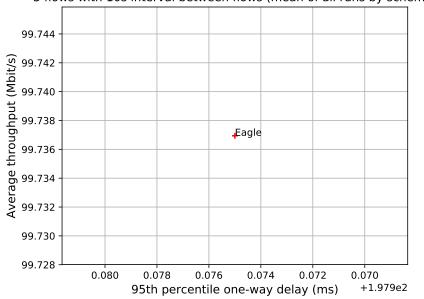
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494

M src/verus.hpp

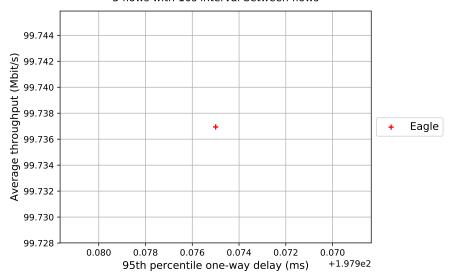
M tools/plot.py

third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851





local test in mahimahi, 1 run of 30s each per scheme 3 flows with 10s interval between flows



		mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
scheme	# runs	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
Eagle	1	99.01	0.66	0.97	197.92	281.19	132.68	0.81	0.10	1.58

Run 1: Statistics of Eagle

Start at: 2019-07-30 20:29:03 End at: 2019-07-30 20:29:33

Below is generated by plot.py at 2019-07-30 20:30:08

Datalink statistics
-- Total of 3 flows:

Average capacity: 120.00 Mbit/s

Average throughput: 99.74 Mbit/s (83.1% utilization) 95th percentile per-packet one-way delay: 197.975 ms

Loss rate: 0.81%

-- Flow 1:

Average throughput: 99.01 Mbit/s

95th percentile per-packet one-way delay: 197.916 ms

Loss rate: 0.81%

-- Flow 2:

Average throughput: 0.66 Mbit/s

95th percentile per-packet one-way delay: 281.190 ms

Loss rate: 0.10%

-- Flow 3:

Average throughput: 0.97 Mbit/s

95th percentile per-packet one-way delay: 132.681 ms

Loss rate: 1.58%

Run 1: Report of Eagle — Data Link

