## Pantheon Report

Generated at 2019-07-31 04:54:30 (UTC).

```
Tested in mahimahi: mm-delay 60 mm-link 50mbps.trace 20mbps.trace
   Repeated the test of 1 congestion control schemes twice.
   Each test lasted for 30 seconds running 1 flow.
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 @ 09cd7bfd2995c2619b3228745151dfde95d35ab0
third_party/aurora @ f3e943d61015b39960854ba6391797e0c7984d74
third_party/aurora-model @ e292c316c23fb837255c4e142e40590d154bbe95
third_party/eagle @ f66d3a824f0abdd3b1d0afc0cc323607b2c38eca
D sender-receiver/sender-receiver/sender_receiver/envs/model-xentropy.pt
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

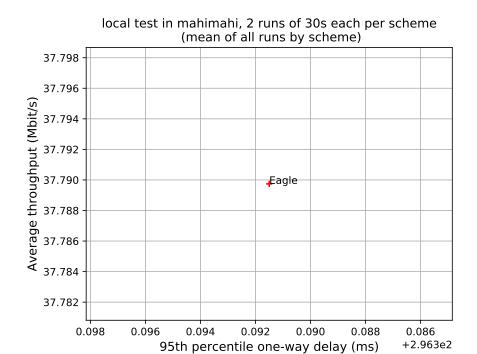
M src/network/sproutconn.cc

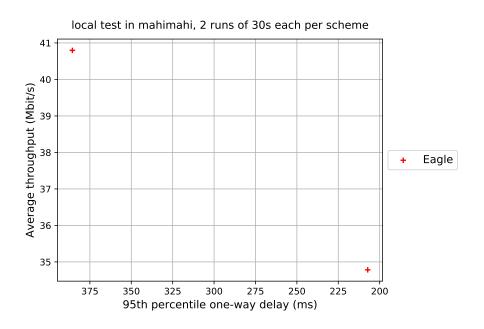
third\_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494

M src/verus.hpp

M tools/plot.py

third\_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third\_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851





		mean avg tput (Mbit/s)	mean 95th-%ile delay (ms)	mean loss rate $(\%)$
$_{\rm scheme}$	# runs	flow 1	flow 1	flow 1
Eagle	2	37.79	296.39	0.37

## Run 1: Statistics of Eagle

Start at: 2019-07-31 04:52:58 End at: 2019-07-31 04:53:28

# Below is generated by plot.py at 2019-07-31 04:54:27

# Datalink statistics
-- Total of 1 flow:

Average capacity: 50.00 Mbit/s

Average throughput: 40.80~Mbit/s (81.6% utilization) 95th percentile per-packet one-way delay: 385.566~ms

Loss rate: 0.30%

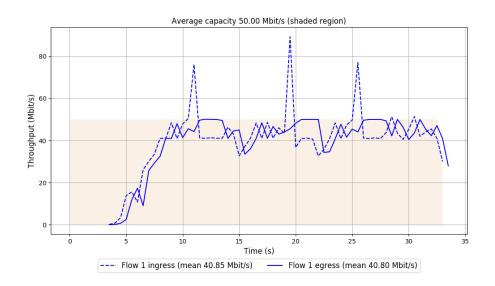
-- Flow 1:

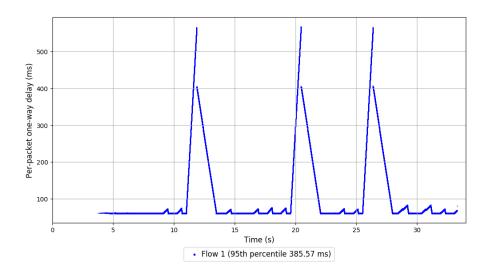
Average throughput: 40.80 Mbit/s

95th percentile per-packet one-way delay: 385.566 ms

Loss rate: 0.30%

Run 1: Report of Eagle — Data Link





## Run 2: Statistics of Eagle

Start at: 2019-07-31 04:53:36 End at: 2019-07-31 04:54:06

# Below is generated by plot.py at 2019-07-31 04:54:29

# Datalink statistics
-- Total of 1 flow:

Average capacity: 50.00 Mbit/s

Average throughput: 34.78 Mbit/s (69.6% utilization) 95th percentile per-packet one-way delay: 207.217 ms

Loss rate: 0.44%

-- Flow 1:

Average throughput: 34.78 Mbit/s

95th percentile per-packet one-way delay: 207.217 ms

Loss rate: 0.44%

Run 2: Report of Eagle — Data Link

