

Pantheon Report

Generated at 2019-07-30 20:39:11 (UTC).

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

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.

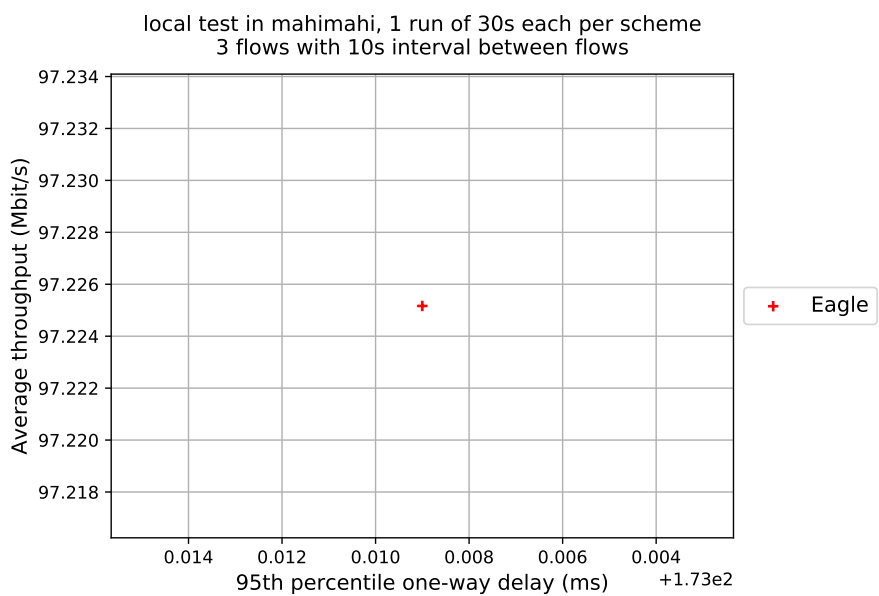
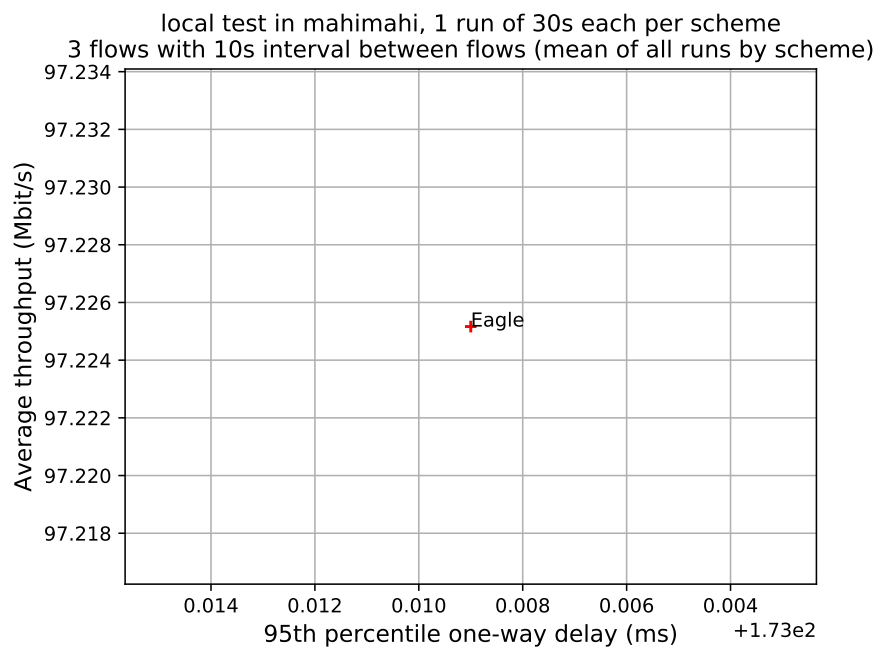
System info:

```
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 @ 6905a2d4a9d5da38e519e0cf640e482f4bc05c0f
third_party/aurora @ f3e943d61015b39960854ba6391797e0c7984d74
third_party/aurora-model @ e292c316c23fb837255c4e142e40590d154bbe95
third_party/eagle @ ce4c8d9511b8dfde83c08384f81b2617bfb10438
  M sender-receiver/sender-receiver/sender_receiver/envs/example-xentropy.py
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf5e58e562f4
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 @ 2601c92e4aa9d58d38dc4dfe0ecd90c077e64d
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-quick @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11fff1964974e1da3bdb2
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
```



scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
Eagle	1	77.47	6.54	49.32	169.85	172.20	183.35	0.12	1.02	1.25

Run 1: Statistics of Eagle

Start at: 2019-07-30 20:37:56

End at: 2019-07-30 20:38:26

Below is generated by plot.py at 2019-07-30 20:39:10

Datalink statistics

-- Total of 3 flows:

Average capacity: 120.00 Mbit/s

Average throughput: 97.23 Mbit/s (81.0% utilization)

95th percentile per-packet one-way delay: 173.009 ms

Loss rate: 0.34%

-- Flow 1:

Average throughput: 77.47 Mbit/s

95th percentile per-packet one-way delay: 169.852 ms

Loss rate: 0.12%

-- Flow 2:

Average throughput: 6.54 Mbit/s

95th percentile per-packet one-way delay: 172.200 ms

Loss rate: 1.02%

-- Flow 3:

Average throughput: 49.32 Mbit/s

95th percentile per-packet one-way delay: 183.350 ms

Loss rate: 1.25%

Run 1: Report of Eagle — Data Link

