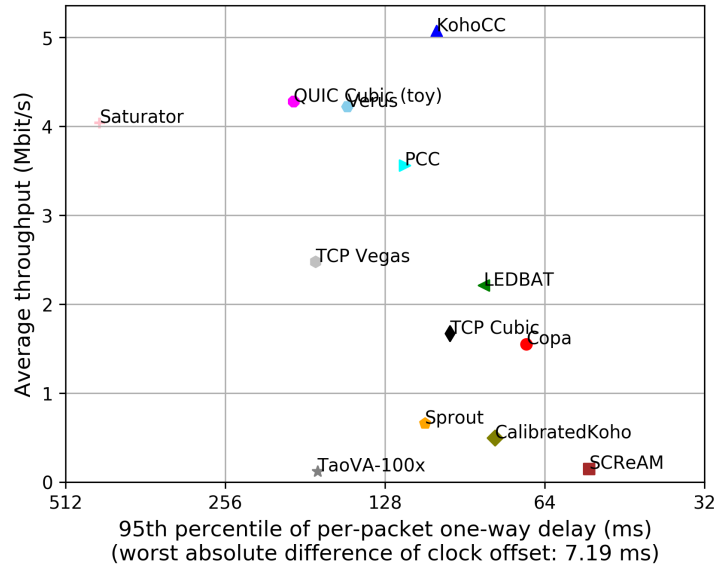


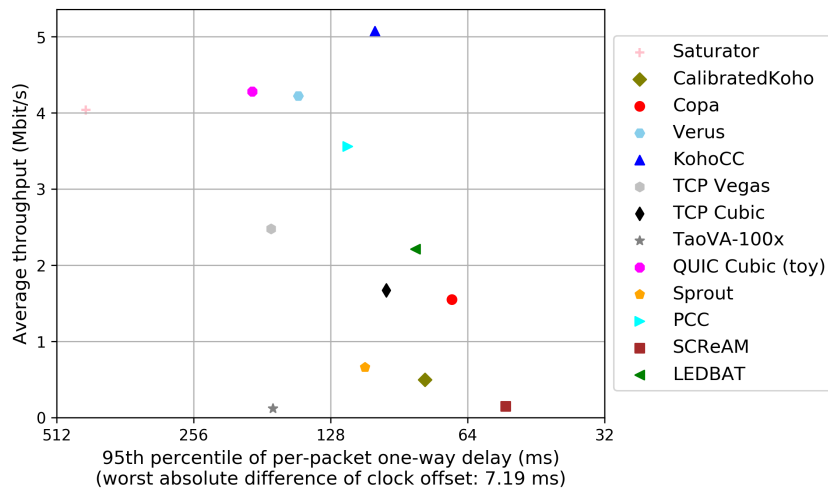
Pantheon Summary (Generated at Sun, 11 Jun 2017 01:02:35 +0000 with
pantheon version e44e21ab50520045378f626dc5b5e21d0473d7b8)
Repeated the test of 14 congestion control schemes once.
Each test lasted for 30 seconds running 1 flow.
Data path **from** AWS India 2 Ethernet **to** Nepal Ethernet.
NTP offset measured against nets.org.sg.

```
git branch: master @ e44e21ab50520045378f626dc5b5e21d0473d7b8
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/genericCC @ dae96123232f1bcb37725348fa2378691ce26725
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
  M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-stimuli @ fc73a85ca16c34366d1888dc8a0d0d88d4ebf2a7
third_party/pantheon-tunnel @ 4893799ab83a43fa2d3236507d168f461e1243ed
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/proto-quick @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eae30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
  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/webrtc @ a488197ddd041ace68a42849b2540ad834825f42
```

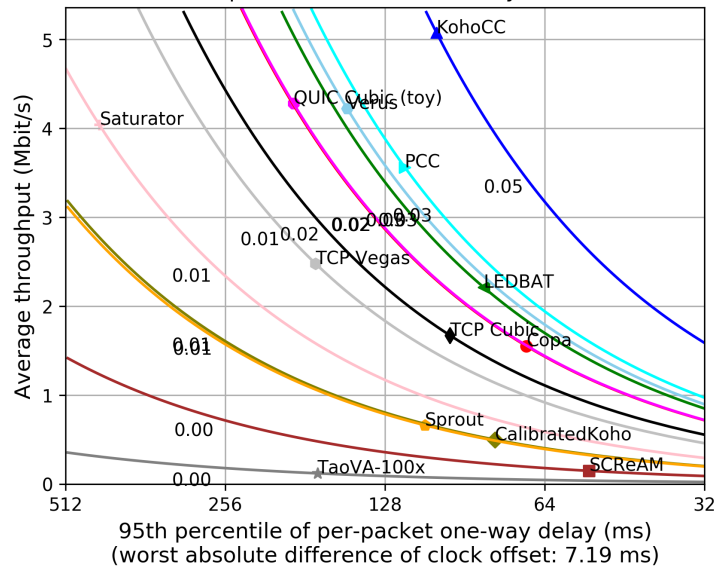
test from AWS India 2 Ethernet to Nepal Ethernet, run 1 of 30s each per scheme
mean of all runs by scheme



test from AWS India 2 Ethernet to Nepal Ethernet, run 1 of 30s each per scheme



test from AWS India 2 Ethernet to Nepal Ethernet, run 1 of 30s each per scheme
 mean power scores of all runs by scheme



Run 1: Statistics of CalibratedKoho

Start at: Sun, 11 Jun 2017 00:29:05 +0000

End at: Sun, 11 Jun 2017 00:29:35 +0000

Local clock offset: 2.888 ms

Remote clock offset: 3.854 ms

Below is generated by plot.py at Sun, 11 Jun 2017 01:02:23 +0000

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.50 Mbit/s

95th percentile per-packet one-way delay: 79.458 ms

Loss rate: 0.00%

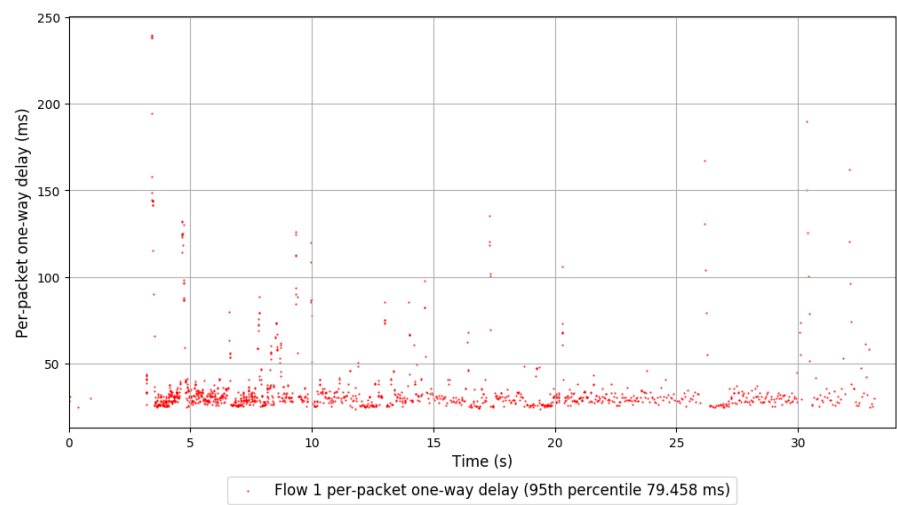
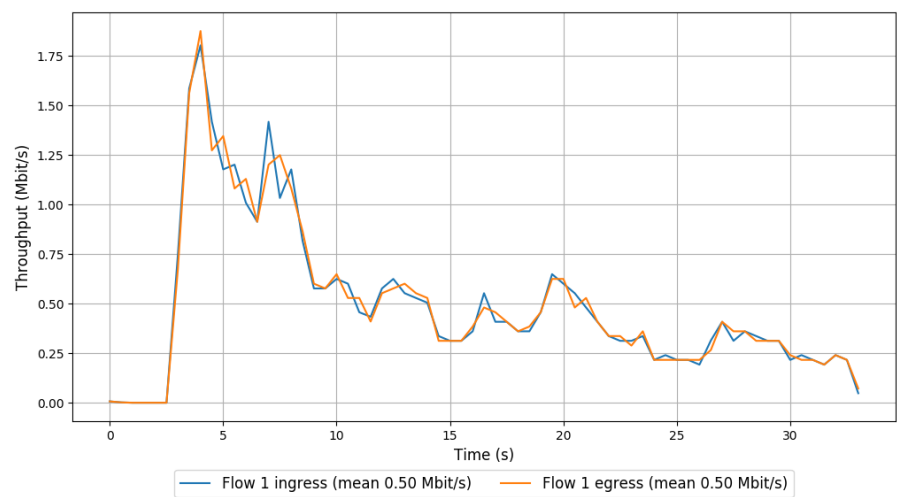
-- Flow 1:

Average throughput: 0.50 Mbit/s

95th percentile per-packet one-way delay: 79.458 ms

Loss rate: 0.00%

Run 1: Report of CalibratedKoho — Data Link



Run 1: Statistics of Copa

Start at: Sun, 11 Jun 2017 00:39:31 +0000

End at: Sun, 11 Jun 2017 00:40:01 +0000

Local clock offset: 1.126 ms

Remote clock offset: 5.037 ms

Below is generated by plot.py at Sun, 11 Jun 2017 01:02:24 +0000

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.55 Mbit/s

95th percentile per-packet one-way delay: 69.306 ms

Loss rate: 0.52%

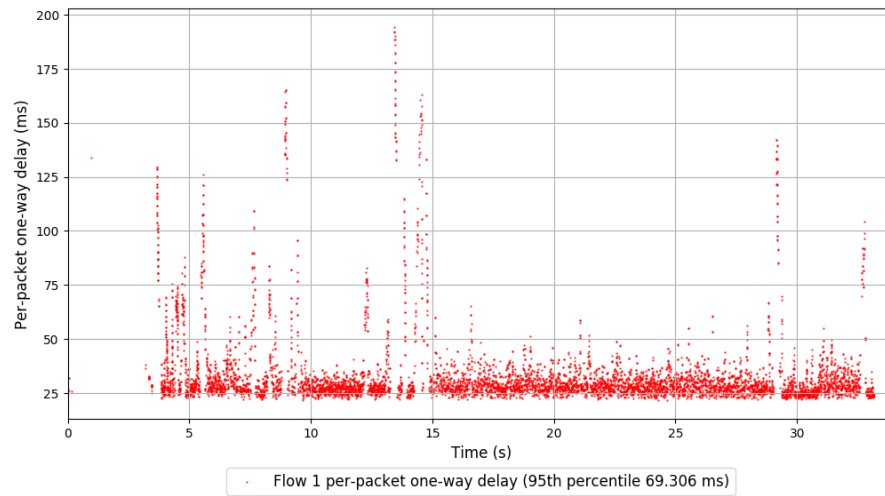
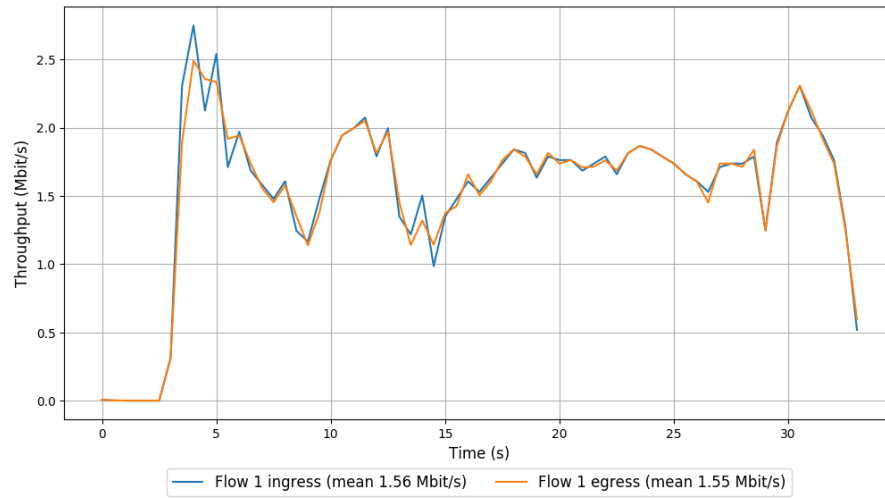
-- Flow 1:

Average throughput: 1.55 Mbit/s

95th percentile per-packet one-way delay: 69.306 ms

Loss rate: 0.52%

Run 1: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: Sun, 11 Jun 2017 00:27:46 +0000

End at: Sun, 11 Jun 2017 00:28:16 +0000

Local clock offset: 0.223 ms

Remote clock offset: 5.904 ms

Below is generated by plot.py at Sun, 11 Jun 2017 01:02:24 +0000

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.67 Mbit/s

95th percentile per-packet one-way delay: 96.622 ms

Loss rate: 2.80%

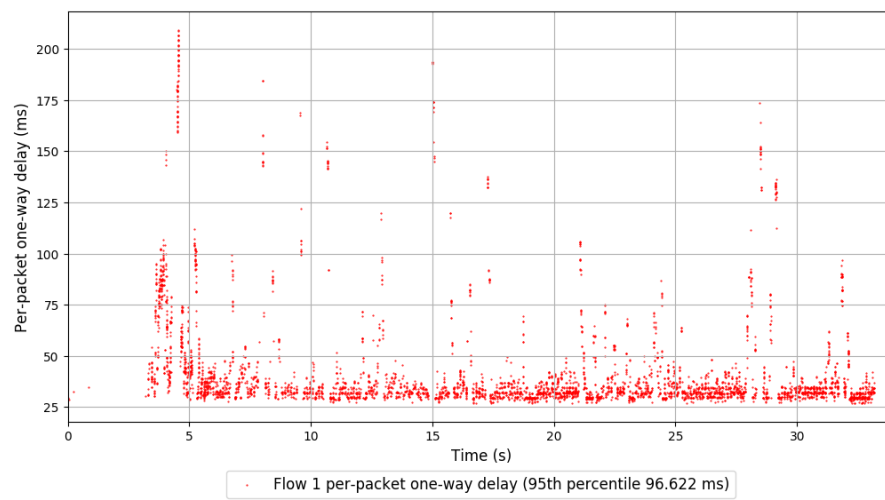
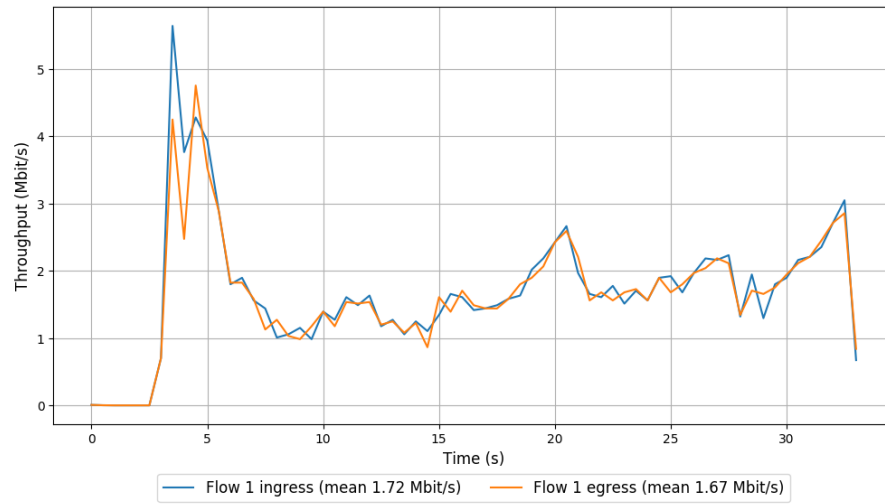
-- Flow 1:

Average throughput: 1.67 Mbit/s

95th percentile per-packet one-way delay: 96.622 ms

Loss rate: 2.80%

Run 1: Report of TCP Cubic — Data Link



Run 1: Statistics of KohoCC

Start at: Sun, 11 Jun 2017 00:26:26 +0000

End at: Sun, 11 Jun 2017 00:26:56 +0000

Local clock offset: 1.707 ms

Remote clock offset: 3.937 ms

Below is generated by plot.py at Sun, 11 Jun 2017 01:02:26 +0000

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.08 Mbit/s

95th percentile per-packet one-way delay: 102.358 ms

Loss rate: 3.70%

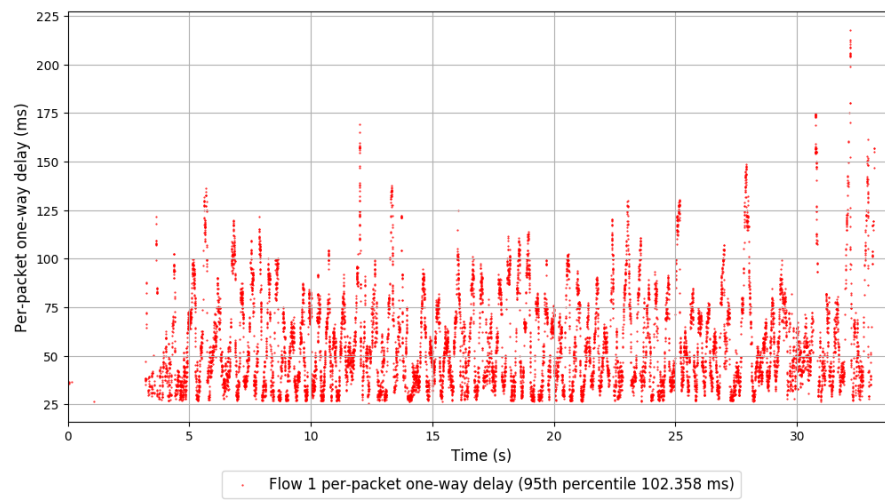
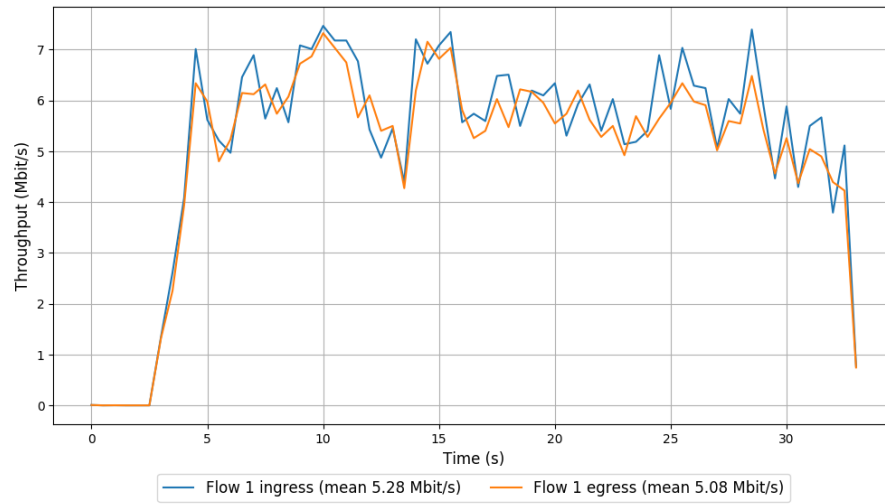
-- Flow 1:

Average throughput: 5.08 Mbit/s

95th percentile per-packet one-way delay: 102.358 ms

Loss rate: 3.70%

Run 1: Report of KohoCC — Data Link



Run 1: Statistics of LEDBAT

Start at: Sun, 11 Jun 2017 00:38:17 +0000

End at: Sun, 11 Jun 2017 00:38:48 +0000

Local clock offset: 1.242 ms

Remote clock offset: 6.207 ms

Below is generated by plot.py at Sun, 11 Jun 2017 01:02:26 +0000

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.21 Mbit/s

95th percentile per-packet one-way delay: 83.379 ms

Loss rate: 0.76%

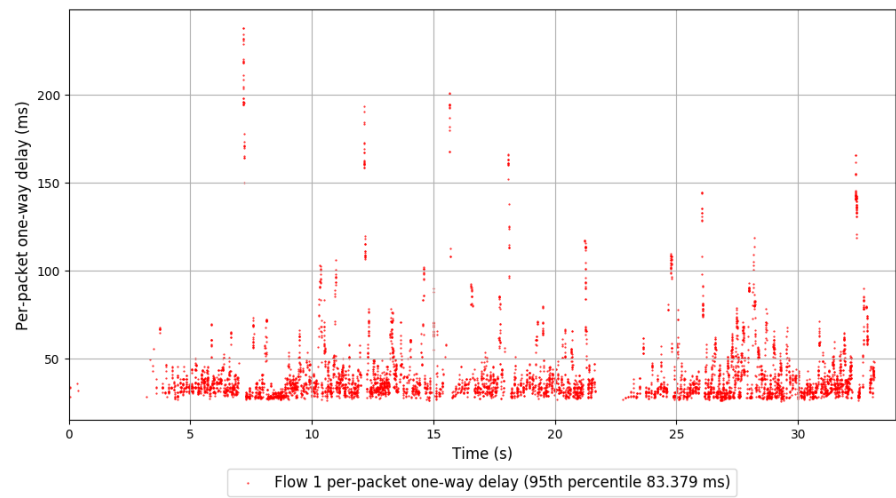
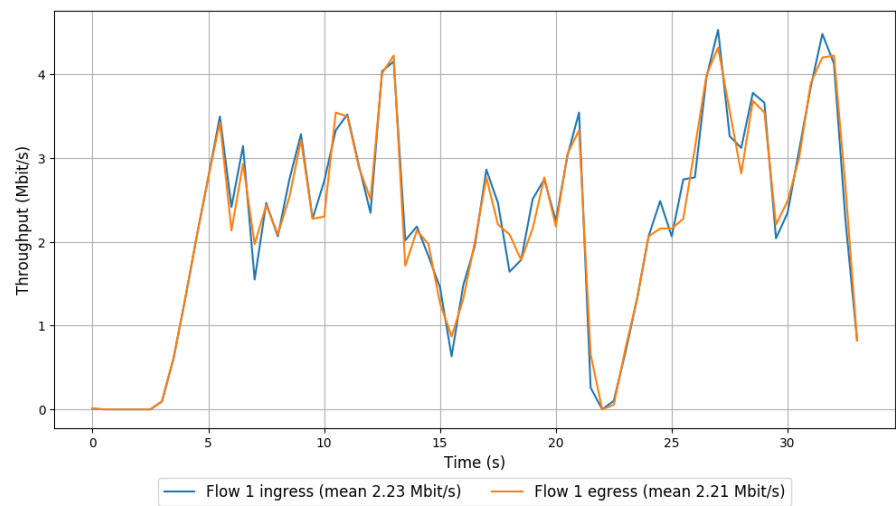
-- Flow 1:

Average throughput: 2.21 Mbit/s

95th percentile per-packet one-way delay: 83.379 ms

Loss rate: 0.76%

Run 1: Report of LEDBAT — Data Link



Run 1: Statistics of PCC

Start at: Sun, 11 Jun 2017 00:30:23 +0000

End at: Sun, 11 Jun 2017 00:30:53 +0000

Local clock offset: 1.166 ms

Remote clock offset: 4.962 ms

Below is generated by plot.py at Sun, 11 Jun 2017 01:02:27 +0000

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.56 Mbit/s

95th percentile per-packet one-way delay: 117.432 ms

Loss rate: 2.76%

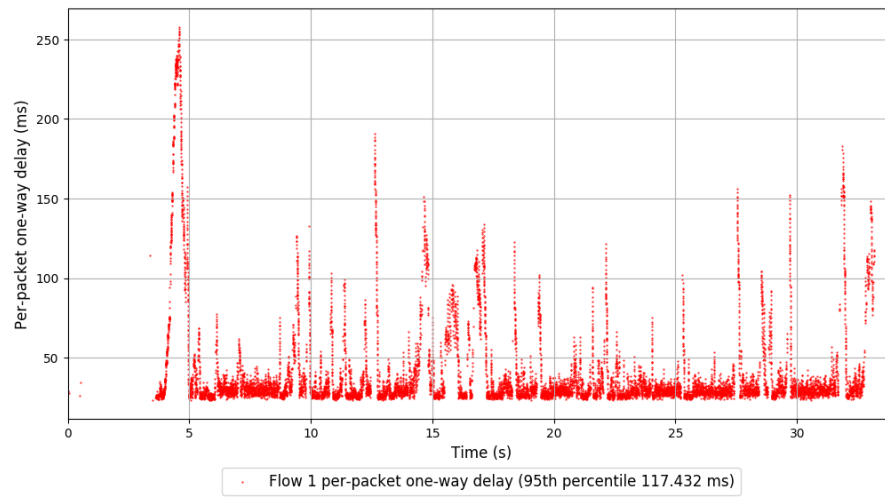
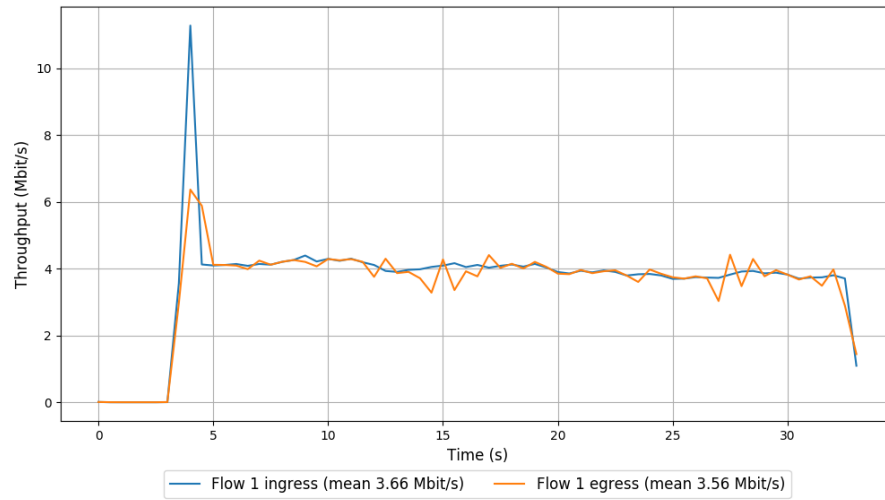
-- Flow 1:

Average throughput: 3.56 Mbit/s

95th percentile per-packet one-way delay: 117.432 ms

Loss rate: 2.76%

Run 1: Report of PCC — Data Link



Run 1: Statistics of QUIC Cubic (toy)

Start at: Sun, 11 Jun 2017 00:32:57 +0000

End at: Sun, 11 Jun 2017 00:33:27 +0000

Local clock offset: -0.973 ms

Remote clock offset: 4.678 ms

Below is generated by plot.py at Sun, 11 Jun 2017 01:02:28 +0000

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.28 Mbit/s

95th percentile per-packet one-way delay: 190.567 ms

Loss rate: 1.38%

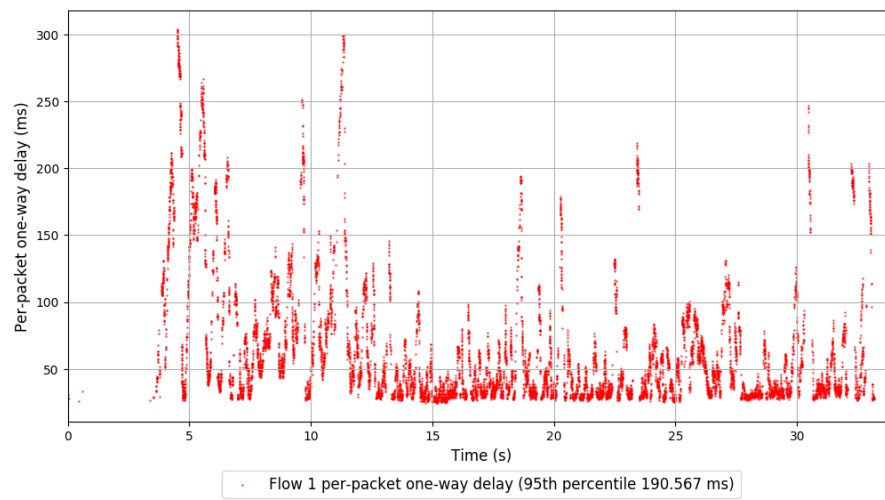
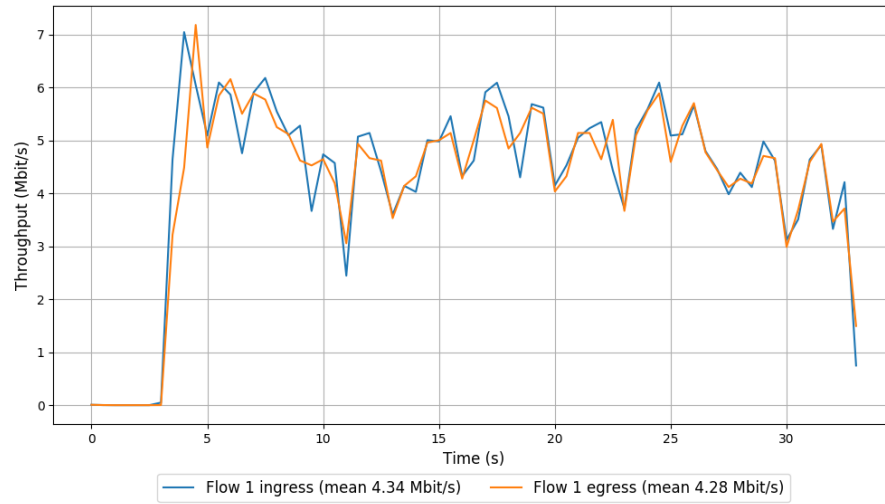
-- Flow 1:

Average throughput: 4.28 Mbit/s

95th percentile per-packet one-way delay: 190.567 ms

Loss rate: 1.38%

Run 1: Report of QUIC Cubic (toy) — Data Link



Run 1: Statistics of Saturator

Start at: Sun, 11 Jun 2017 00:42:37 +0000

End at: Sun, 11 Jun 2017 00:43:07 +0000

Local clock offset: 0.426 ms

Remote clock offset: 3.87 ms

Below is generated by plot.py at Sun, 11 Jun 2017 01:02:29 +0000

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.04 Mbit/s

95th percentile per-packet one-way delay: 442.180 ms

Loss rate: 24.64%

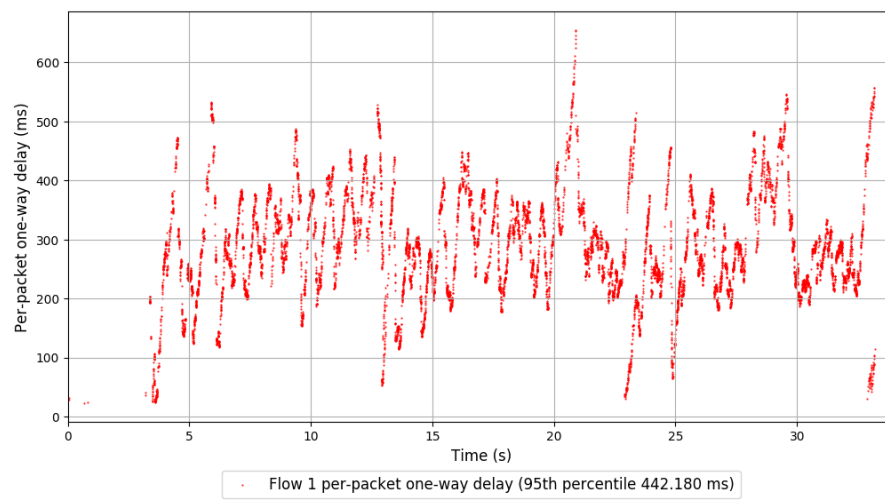
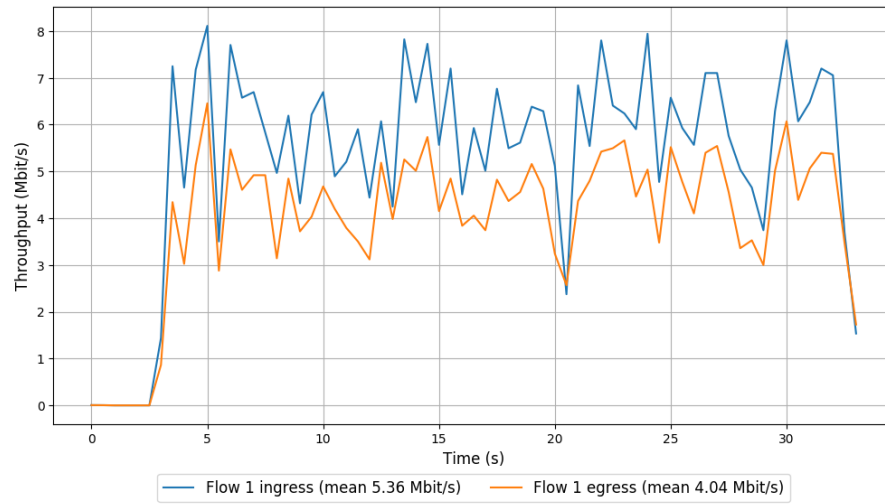
-- Flow 1:

Average throughput: 4.04 Mbit/s

95th percentile per-packet one-way delay: 442.180 ms

Loss rate: 24.64%

Run 1: Report of Saturator — Data Link



Run 1: Statistics of SCReAM

Start at: Sun, 11 Jun 2017 00:34:16 +0000

End at: Sun, 11 Jun 2017 00:34:46 +0000

Local clock offset: 2.785 ms

Remote clock offset: 7.001 ms

Below is generated by plot.py at Sun, 11 Jun 2017 01:02:29 +0000

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.15 Mbit/s

95th percentile per-packet one-way delay: 52.828 ms

Loss rate: 0.22%

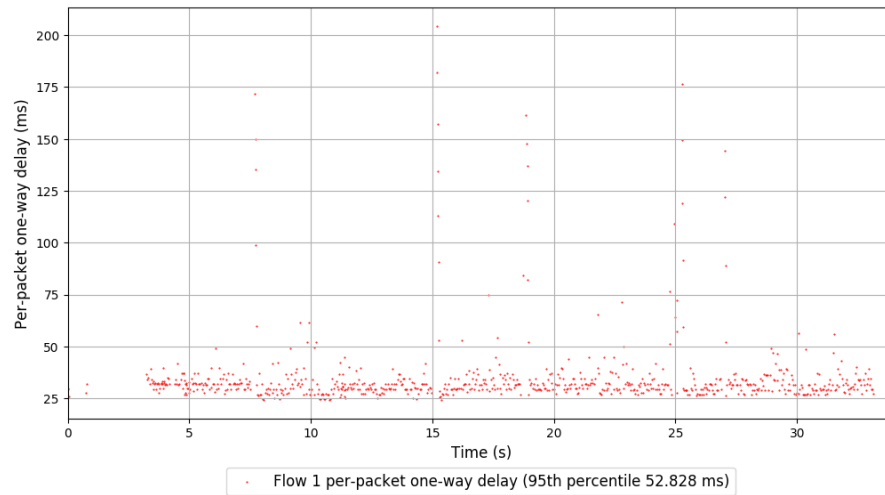
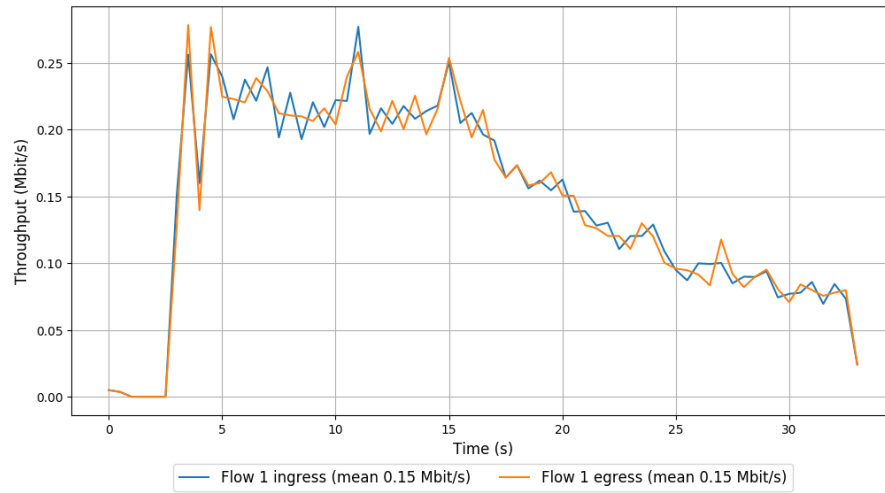
-- Flow 1:

Average throughput: 0.15 Mbit/s

95th percentile per-packet one-way delay: 52.828 ms

Loss rate: 0.22%

Run 1: Report of SReAM — Data Link



Run 1: Statistics of Sprout

Start at: Sun, 11 Jun 2017 00:25:08 +0000

End at: Sun, 11 Jun 2017 00:25:38 +0000

Local clock offset: 1.7 ms

Remote clock offset: 3.707 ms

Below is generated by plot.py at Sun, 11 Jun 2017 01:02:30 +0000

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.66 Mbit/s

95th percentile per-packet one-way delay: 107.742 ms

Loss rate: 1.03%

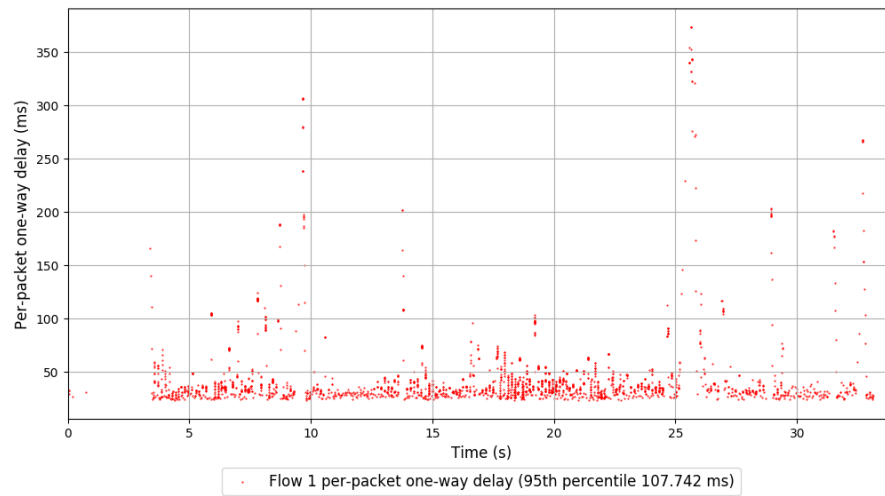
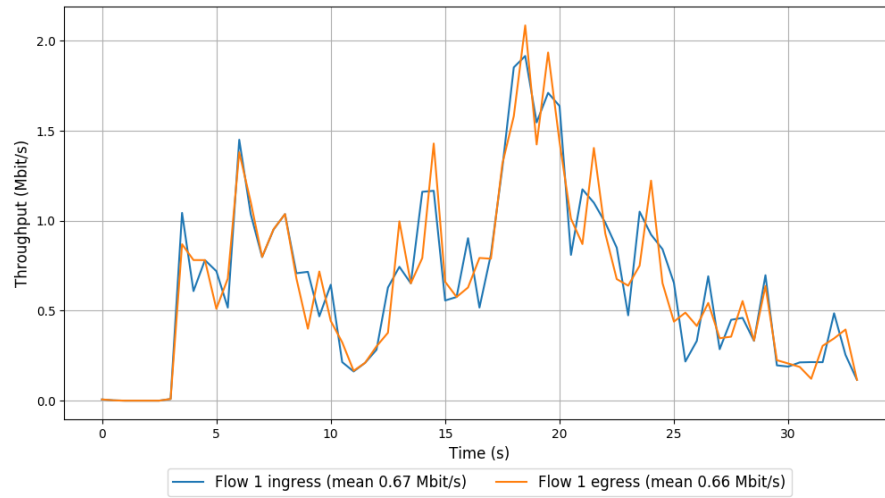
-- Flow 1:

Average throughput: 0.66 Mbit/s

95th percentile per-packet one-way delay: 107.742 ms

Loss rate: 1.03%

Run 1: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

Start at: Sun, 11 Jun 2017 00:31:43 +0000

End at: Sun, 11 Jun 2017 00:32:13 +0000

Local clock offset: -1.215 ms

Remote clock offset: 5.975 ms

Below is generated by plot.py at Sun, 11 Jun 2017 01:02:30 +0000

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.12 Mbit/s

95th percentile per-packet one-way delay: 171.661 ms

Loss rate: 36.57%

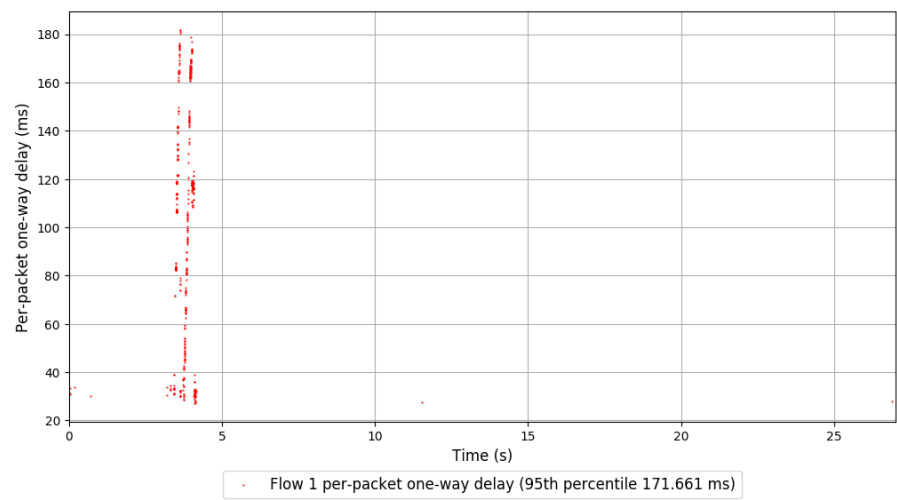
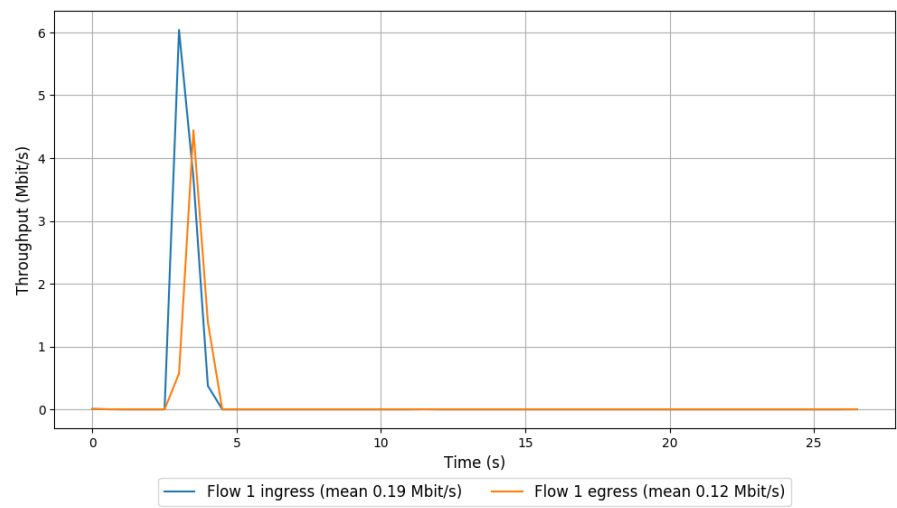
-- Flow 1:

Average throughput: 0.12 Mbit/s

95th percentile per-packet one-way delay: 171.661 ms

Loss rate: 36.57%

Run 1: Report of TaoVA-100x — Data Link



Run 1: Statistics of TCP Vegas

Start at: Sun, 11 Jun 2017 00:36:54 +0000

End at: Sun, 11 Jun 2017 00:37:24 +0000

Local clock offset: -0.977 ms

Remote clock offset: 4.714 ms

Below is generated by plot.py at Sun, 11 Jun 2017 01:02:31 +0000

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.48 Mbit/s

95th percentile per-packet one-way delay: 173.066 ms

Loss rate: 0.68%

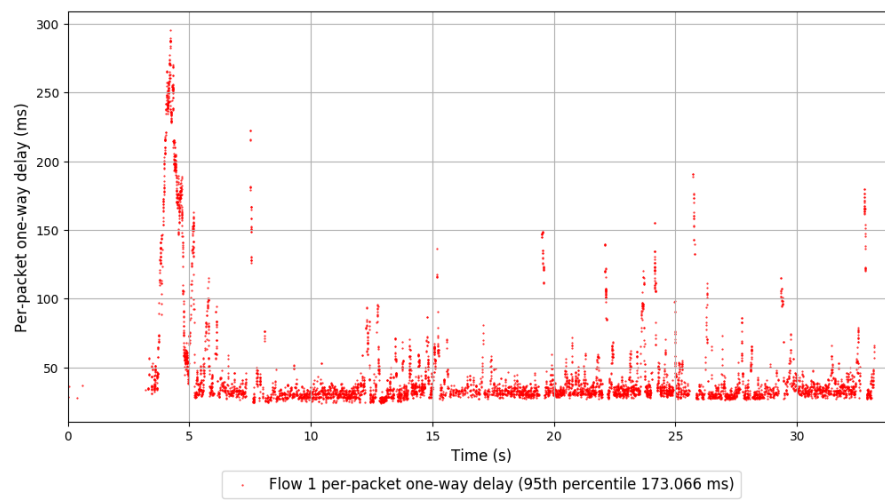
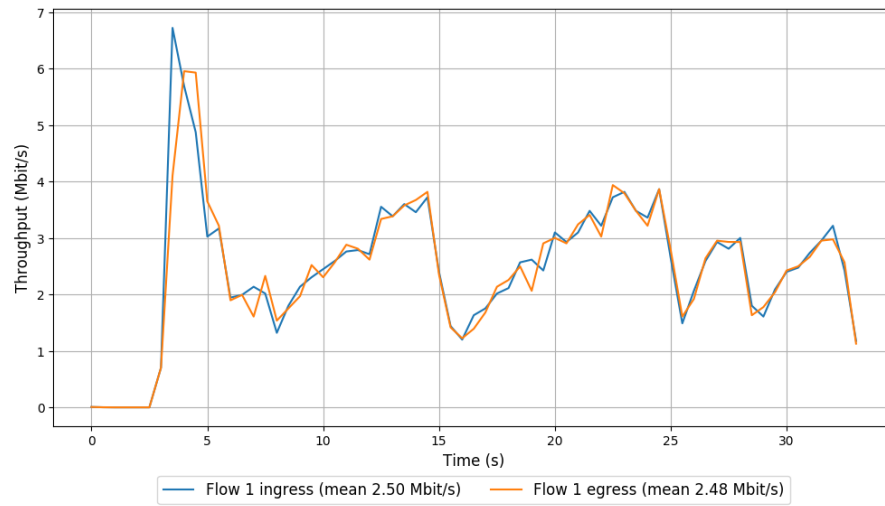
-- Flow 1:

Average throughput: 2.48 Mbit/s

95th percentile per-packet one-way delay: 173.066 ms

Loss rate: 0.68%

Run 1: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: Sun, 11 Jun 2017 00:35:35 +0000

End at: Sun, 11 Jun 2017 00:36:05 +0000

Local clock offset: 1.039 ms

Remote clock offset: 5.441 ms

Below is generated by plot.py at Sun, 11 Jun 2017 01:02:32 +0000

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.23 Mbit/s

95th percentile per-packet one-way delay: 150.932 ms

Loss rate: 5.88%

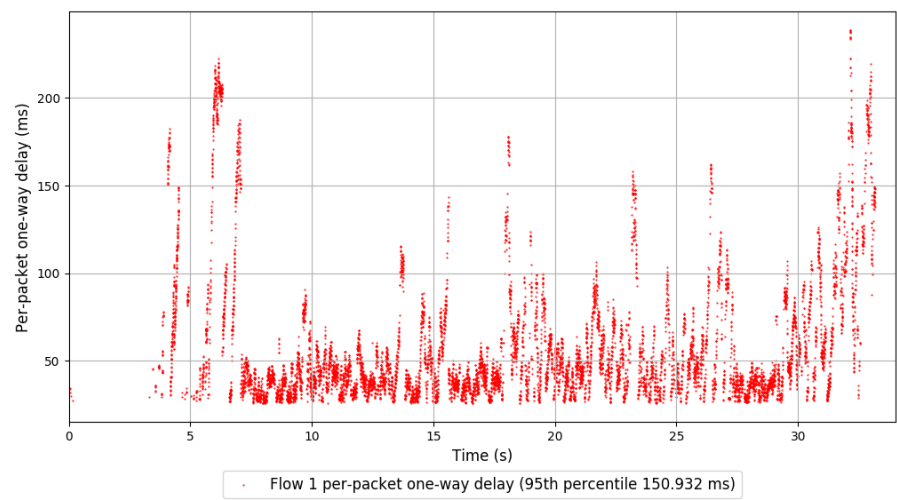
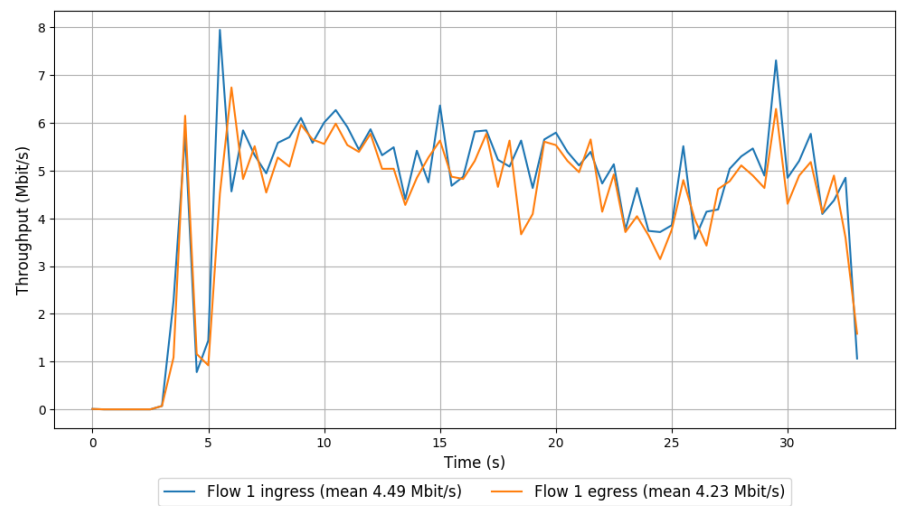
-- Flow 1:

Average throughput: 4.23 Mbit/s

95th percentile per-packet one-way delay: 150.932 ms

Loss rate: 5.88%

Run 1: Report of Verus — Data Link



Run 1: Statistics of WebRTC media

Start at: Sun, 11 Jun 2017 00:40:50 +0000

End at: Sun, 11 Jun 2017 00:41:20 +0000

Local clock offset: -0.784 ms

Remote clock offset: 4.075 ms

Run 1: Report of WebRTC media — Data Link

Figure is missing

Figure is missing