

Pantheon Summary (Generated at Sat, 01 Jul 2017 16:26:47 +0000 with pantheon version 55ce618ef3153403f57ca06ffe894ed6887bd36f)

Repeated the test of 15 congestion control schemes 10 times.

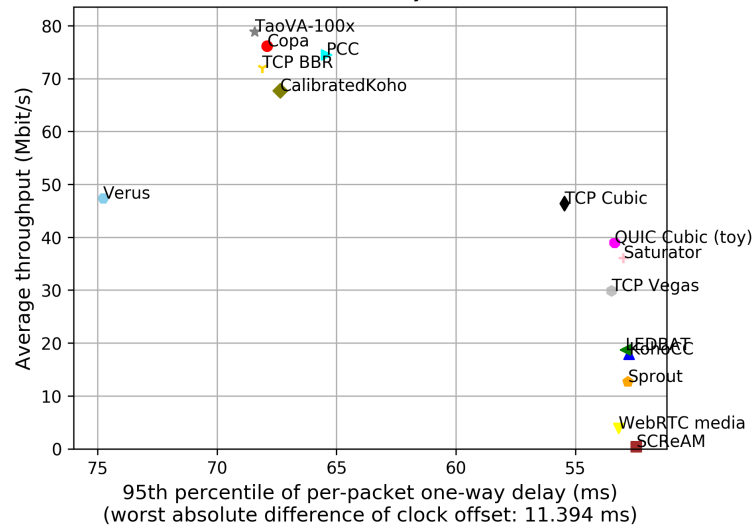
Each test lasted for 30 seconds running 3 flows with 10-second interval between two flows.

Data path **from** Colombia Ethernet **to** AWS Brazil 2 Ethernet.

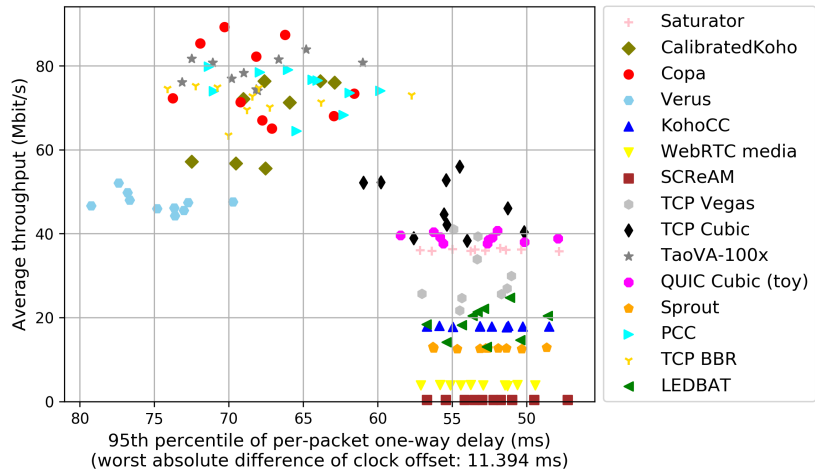
NTP offset measured against gps.ntp.br.

```
git branch: master @ 55ce618ef3153403f57ca06ffe894ed6887bd36f
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 @ c792f8e8e0704b1646a0e024766675d8e9a835f1
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-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eaeab30b267cde681
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
```

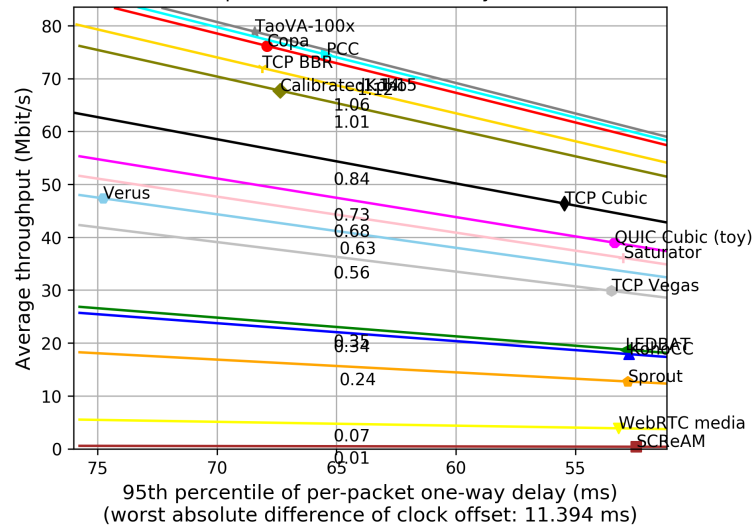
test from Colombia Ethernet to AWS Brazil 2 Ethernet, 10 runs of 30s each per scheme
mean of all runs by scheme



test from Colombia Ethernet to AWS Brazil 2 Ethernet, 10 runs of 30s each per scheme



test from Colombia Ethernet to AWS Brazil 2 Ethernet, 10 runs of 30s each per scheme
 mean power scores of all runs by scheme



Run 1: Statistics of TCP BBR

Start at: Sat, 01 Jul 2017 12:26:32 +0000

End at: Sat, 01 Jul 2017 12:27:02 +0000

Local clock offset: 0.471 ms

Remote clock offset: -8.944 ms

Below is generated by plot.py at Sat, 01 Jul 2017 16:16:27 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 73.06 Mbit/s

95th percentile per-packet one-way delay: 57.732 ms

Loss rate: 10.29%

-- Flow 1:

Average throughput: 51.25 Mbit/s

95th percentile per-packet one-way delay: 57.748 ms

Loss rate: 9.92%

-- Flow 2:

Average throughput: 18.03 Mbit/s

95th percentile per-packet one-way delay: 57.665 ms

Loss rate: 10.73%

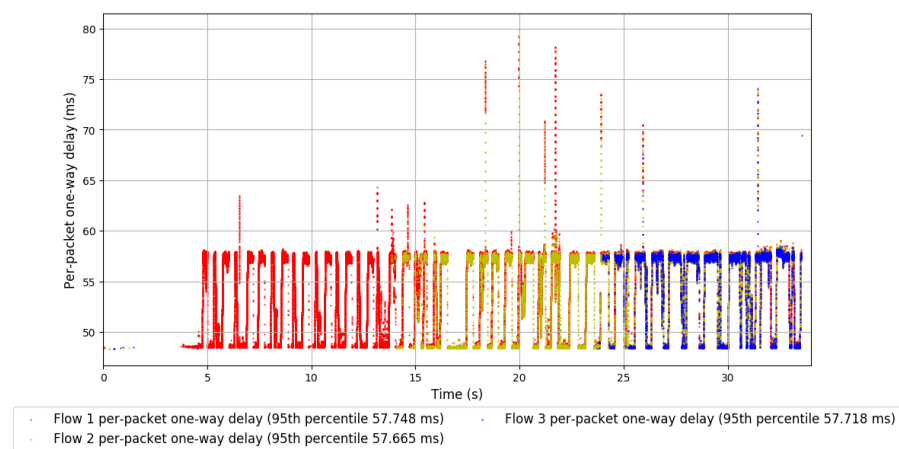
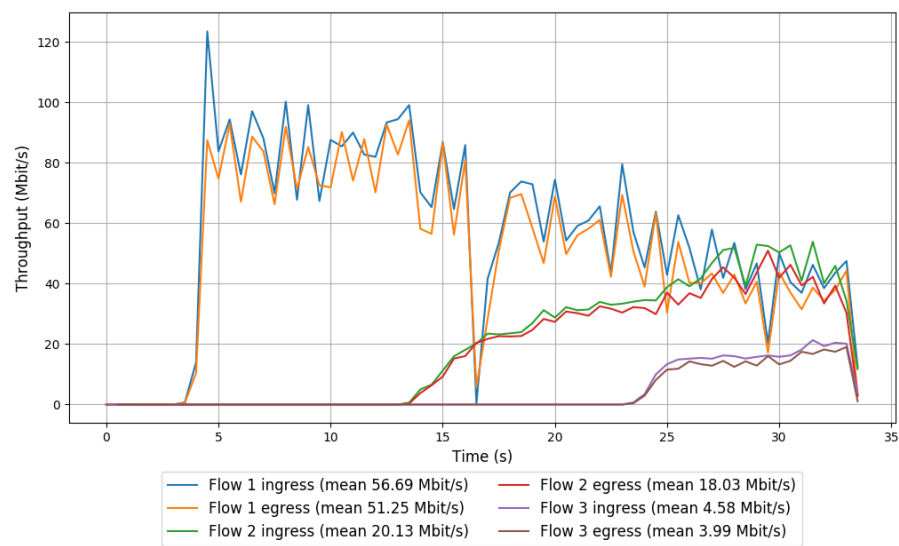
-- Flow 3:

Average throughput: 3.99 Mbit/s

95th percentile per-packet one-way delay: 57.718 ms

Loss rate: 13.11%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: Sat, 01 Jul 2017 12:45:15 +0000

End at: Sat, 01 Jul 2017 12:45:45 +0000

Local clock offset: 0.434 ms

Remote clock offset: -7.337 ms

Below is generated by plot.py at Sat, 01 Jul 2017 16:16:27 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 74.80 Mbit/s

95th percentile per-packet one-way delay: 67.992 ms

Loss rate: 11.10%

-- Flow 1:

Average throughput: 43.49 Mbit/s

95th percentile per-packet one-way delay: 67.724 ms

Loss rate: 10.76%

-- Flow 2:

Average throughput: 18.99 Mbit/s

95th percentile per-packet one-way delay: 68.060 ms

Loss rate: 13.78%

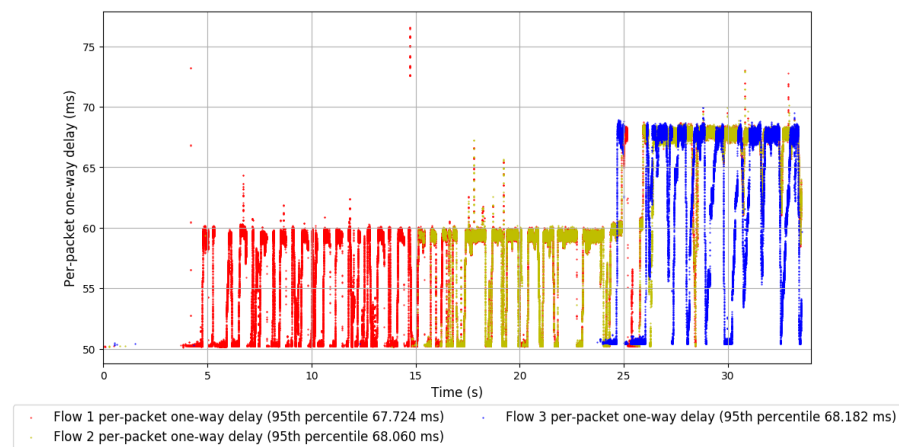
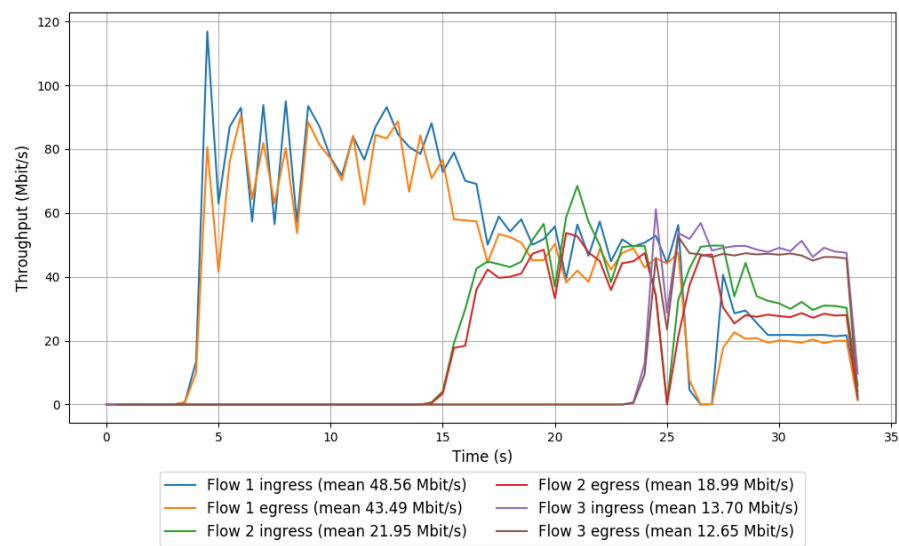
-- Flow 3:

Average throughput: 12.65 Mbit/s

95th percentile per-packet one-way delay: 68.182 ms

Loss rate: 8.02%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: Sat, 01 Jul 2017 13:03:59 +0000

End at: Sat, 01 Jul 2017 13:04:29 +0000

Local clock offset: 0.27 ms

Remote clock offset: -4.477 ms

Below is generated by plot.py at Sat, 01 Jul 2017 16:16:38 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 74.96 Mbit/s

95th percentile per-packet one-way delay: 70.779 ms

Loss rate: 10.70%

-- Flow 1:

Average throughput: 44.64 Mbit/s

95th percentile per-packet one-way delay: 70.803 ms

Loss rate: 10.98%

-- Flow 2:

Average throughput: 17.61 Mbit/s

95th percentile per-packet one-way delay: 70.002 ms

Loss rate: 11.41%

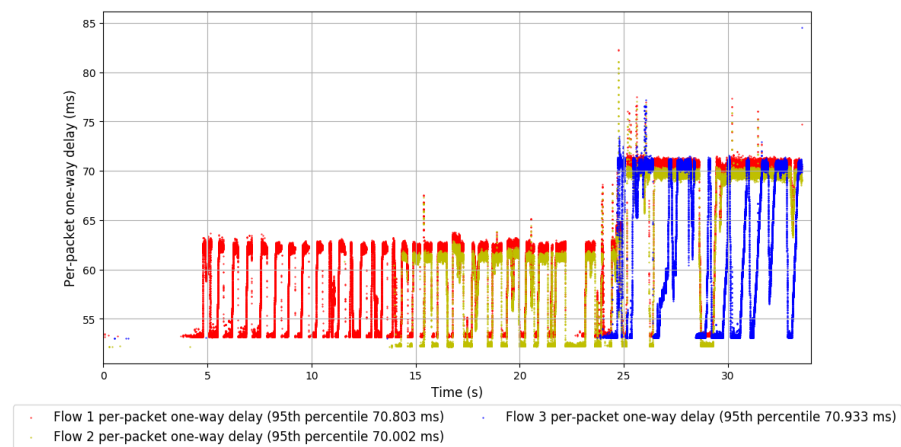
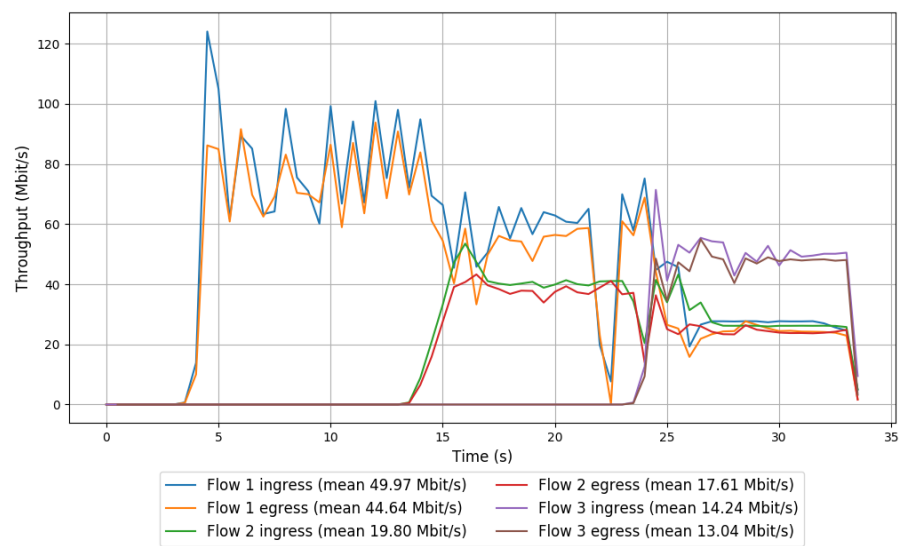
-- Flow 3:

Average throughput: 13.04 Mbit/s

95th percentile per-packet one-way delay: 70.933 ms

Loss rate: 8.70%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: Sat, 01 Jul 2017 13:22:37 +0000

End at: Sat, 01 Jul 2017 13:23:07 +0000

Local clock offset: 0.198 ms

Remote clock offset: -3.634 ms

Below is generated by plot.py at Sat, 01 Jul 2017 16:16:39 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 75.27 Mbit/s

95th percentile per-packet one-way delay: 72.223 ms

Loss rate: 13.26%

-- Flow 1:

Average throughput: 43.88 Mbit/s

95th percentile per-packet one-way delay: 72.075 ms

Loss rate: 14.04%

-- Flow 2:

Average throughput: 26.52 Mbit/s

95th percentile per-packet one-way delay: 72.346 ms

Loss rate: 9.09%

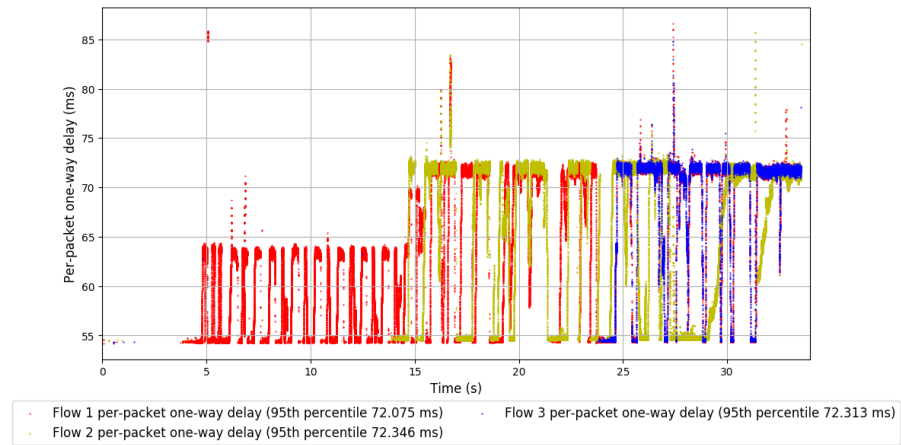
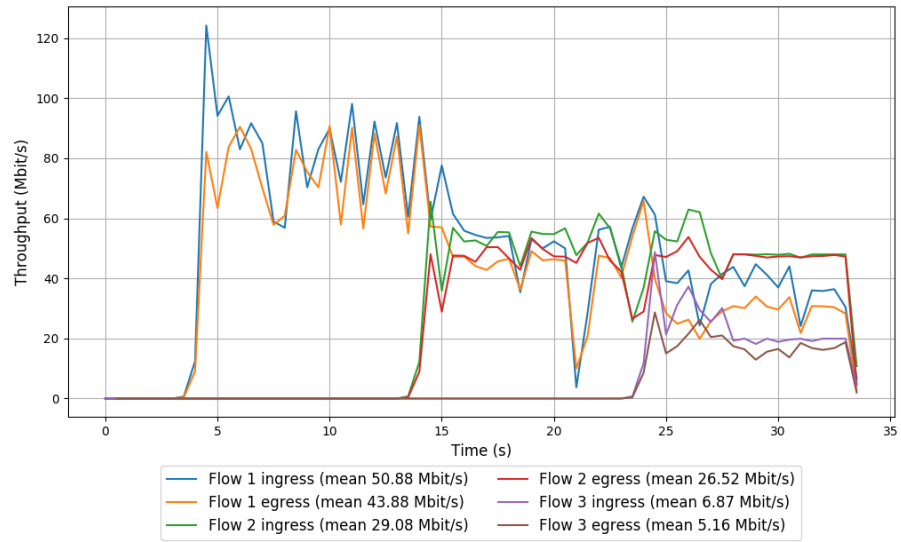
-- Flow 3:

Average throughput: 5.16 Mbit/s

95th percentile per-packet one-way delay: 72.313 ms

Loss rate: 25.12%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: Sat, 01 Jul 2017 13:41:16 +0000

End at: Sat, 01 Jul 2017 13:41:46 +0000

Local clock offset: 0.209 ms

Remote clock offset: -1.903 ms

Below is generated by plot.py at Sat, 01 Jul 2017 16:16:50 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 74.59 Mbit/s

95th percentile per-packet one-way delay: 74.135 ms

Loss rate: 9.03%

-- Flow 1:

Average throughput: 49.13 Mbit/s

95th percentile per-packet one-way delay: 73.439 ms

Loss rate: 8.04%

-- Flow 2:

Average throughput: 22.55 Mbit/s

95th percentile per-packet one-way delay: 74.412 ms

Loss rate: 10.27%

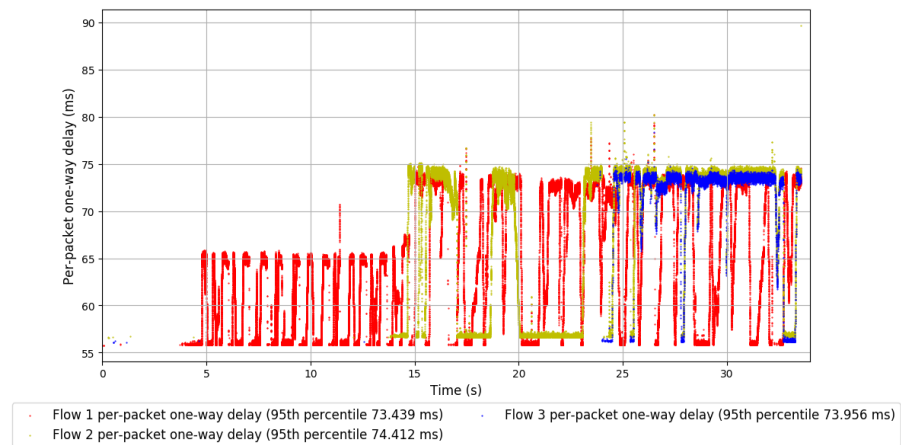
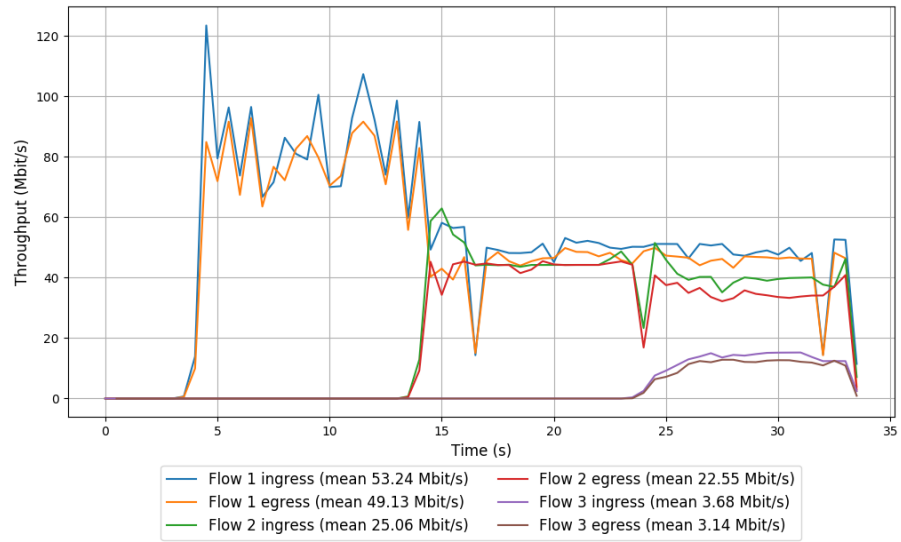
-- Flow 3:

Average throughput: 3.14 Mbit/s

95th percentile per-packet one-way delay: 73.956 ms

Loss rate: 15.10%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: Sat, 01 Jul 2017 13:59:40 +0000

End at: Sat, 01 Jul 2017 14:00:10 +0000

Local clock offset: 0.177 ms

Remote clock offset: -3.407 ms

Below is generated by plot.py at Sat, 01 Jul 2017 16:16:51 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 71.40 Mbit/s

95th percentile per-packet one-way delay: 63.804 ms

Loss rate: 12.10%

-- Flow 1:

Average throughput: 43.41 Mbit/s

95th percentile per-packet one-way delay: 63.747 ms

Loss rate: 10.64%

-- Flow 2:

Average throughput: 21.95 Mbit/s

95th percentile per-packet one-way delay: 63.860 ms

Loss rate: 14.19%

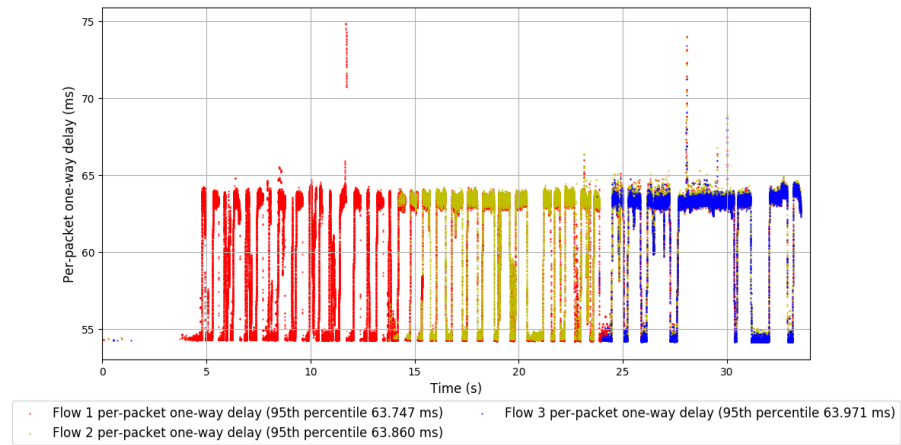
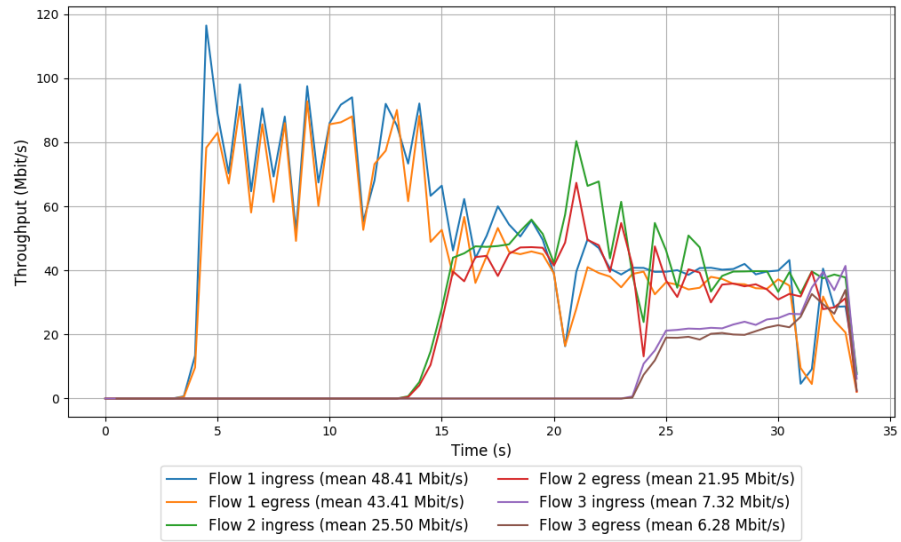
-- Flow 3:

Average throughput: 6.28 Mbit/s

95th percentile per-packet one-way delay: 63.971 ms

Loss rate: 14.49%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: Sat, 01 Jul 2017 14:18:25 +0000

End at: Sat, 01 Jul 2017 14:18:55 +0000

Local clock offset: 0.152 ms

Remote clock offset: -7.494 ms

Below is generated by plot.py at Sat, 01 Jul 2017 16:17:02 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 72.80 Mbit/s

95th percentile per-packet one-way delay: 68.422 ms

Loss rate: 7.81%

-- Flow 1:

Average throughput: 48.04 Mbit/s

95th percentile per-packet one-way delay: 68.525 ms

Loss rate: 7.86%

-- Flow 2:

Average throughput: 21.98 Mbit/s

95th percentile per-packet one-way delay: 67.779 ms

Loss rate: 7.47%

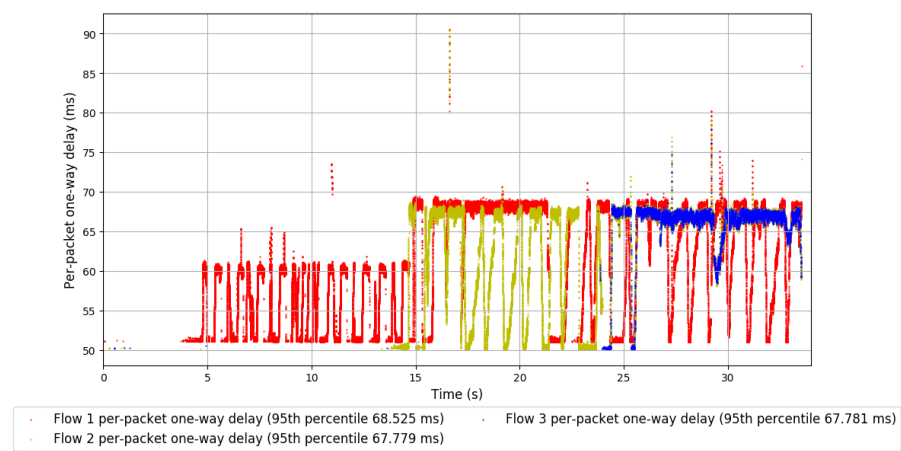
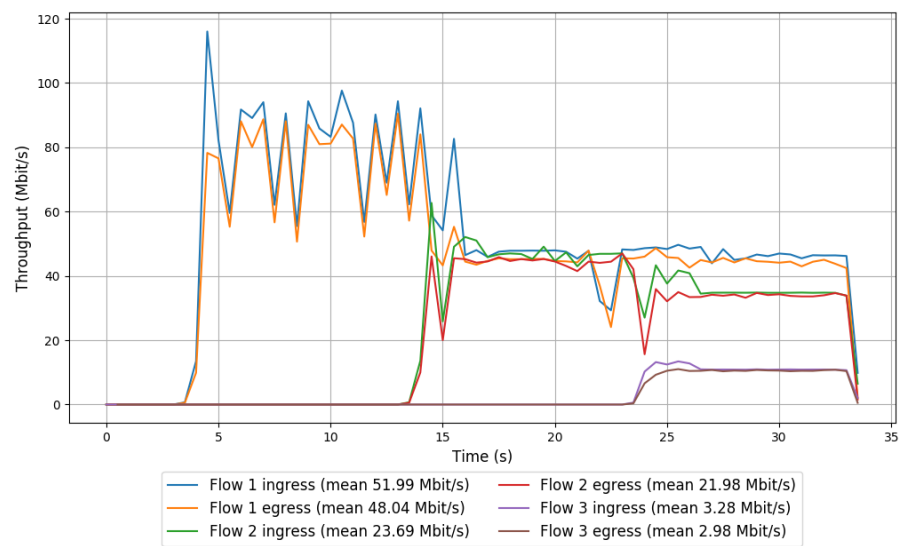
-- Flow 3:

Average throughput: 2.98 Mbit/s

95th percentile per-packet one-way delay: 67.781 ms

Loss rate: 9.45%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: Sat, 01 Jul 2017 14:36:55 +0000

End at: Sat, 01 Jul 2017 14:37:25 +0000

Local clock offset: 0.157 ms

Remote clock offset: -6.496 ms

Below is generated by plot.py at Sat, 01 Jul 2017 16:17:02 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 69.57 Mbit/s

95th percentile per-packet one-way delay: 68.784 ms

Loss rate: 9.87%

-- Flow 1:

Average throughput: 39.68 Mbit/s

95th percentile per-packet one-way delay: 65.400 ms

Loss rate: 9.67%

-- Flow 2:

Average throughput: 18.80 Mbit/s

95th percentile per-packet one-way delay: 69.464 ms

Loss rate: 11.73%

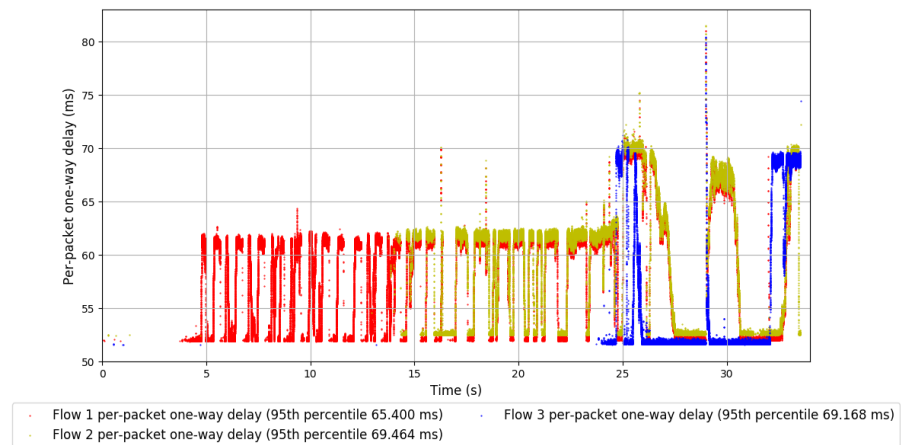
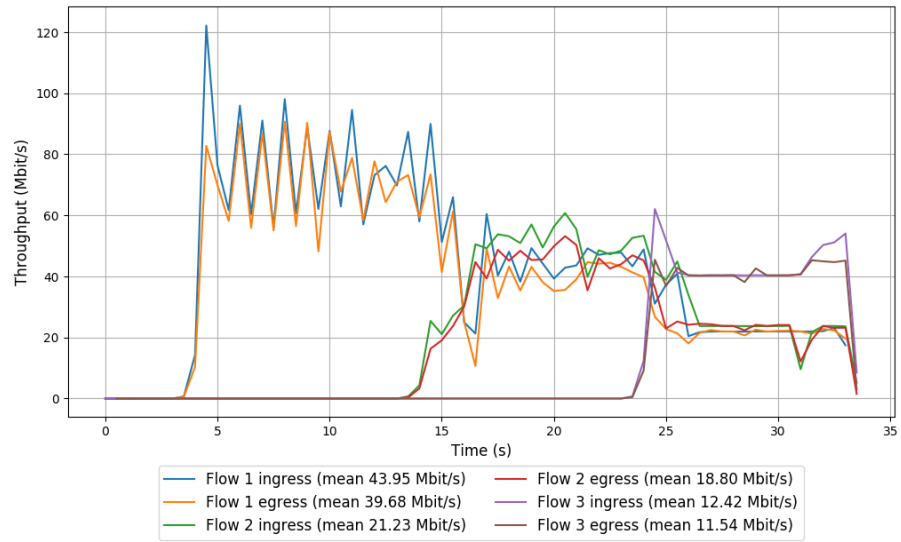
-- Flow 3:

Average throughput: 11.54 Mbit/s

95th percentile per-packet one-way delay: 69.168 ms

Loss rate: 7.40%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: Sat, 01 Jul 2017 14:55:26 +0000

End at: Sat, 01 Jul 2017 14:55:56 +0000

Local clock offset: 0.134 ms

Remote clock offset: -5.217 ms

Below is generated by plot.py at Sat, 01 Jul 2017 16:17:12 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 63.51 Mbit/s

95th percentile per-packet one-way delay: 70.028 ms

Loss rate: 9.39%

-- Flow 1:

Average throughput: 38.90 Mbit/s

95th percentile per-packet one-way delay: 69.700 ms

Loss rate: 9.03%

-- Flow 2:

Average throughput: 13.12 Mbit/s

95th percentile per-packet one-way delay: 70.425 ms

Loss rate: 12.09%

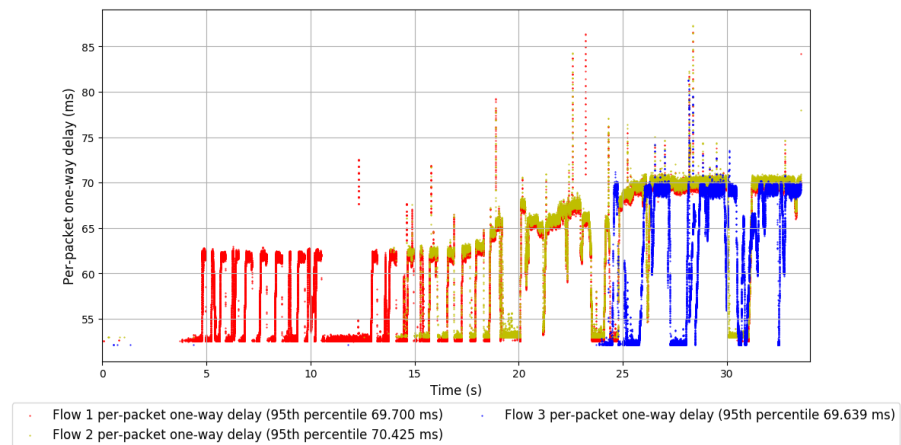
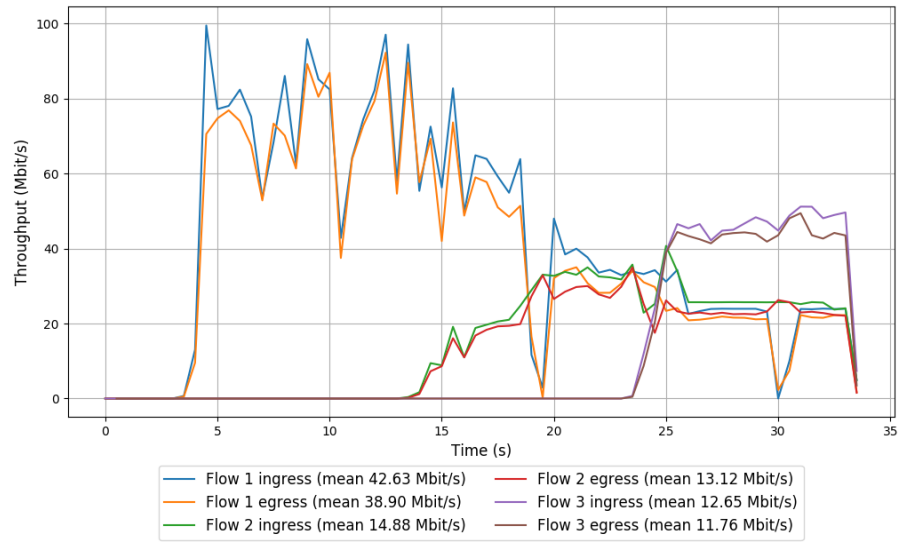
-- Flow 3:

Average throughput: 11.76 Mbit/s

95th percentile per-packet one-way delay: 69.639 ms

Loss rate: 7.41%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: Sat, 01 Jul 2017 15:13:48 +0000

End at: Sat, 01 Jul 2017 15:14:18 +0000

Local clock offset: 0.043 ms

Remote clock offset: -7.664 ms

Below is generated by plot.py at Sat, 01 Jul 2017 16:17:13 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 70.15 Mbit/s

95th percentile per-packet one-way delay: 67.260 ms

Loss rate: 10.64%

-- Flow 1:

Average throughput: 44.78 Mbit/s

95th percentile per-packet one-way delay: 66.947 ms

Loss rate: 8.63%

-- Flow 2:

Average throughput: 19.45 Mbit/s

95th percentile per-packet one-way delay: 67.388 ms

Loss rate: 12.32%

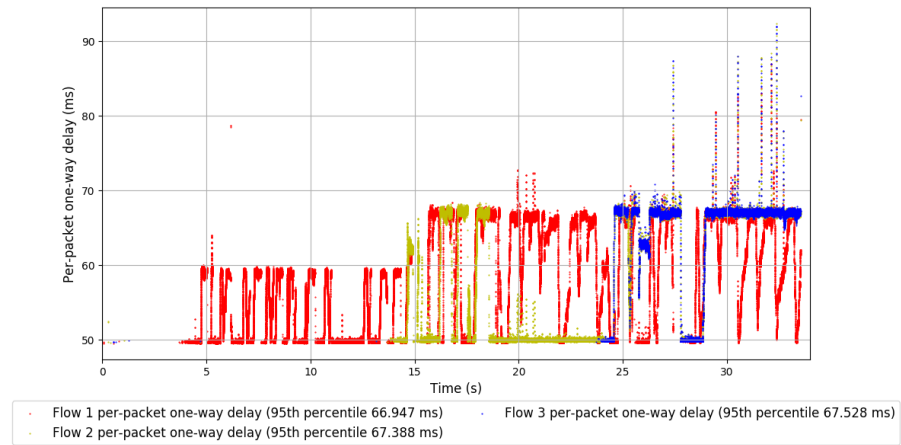
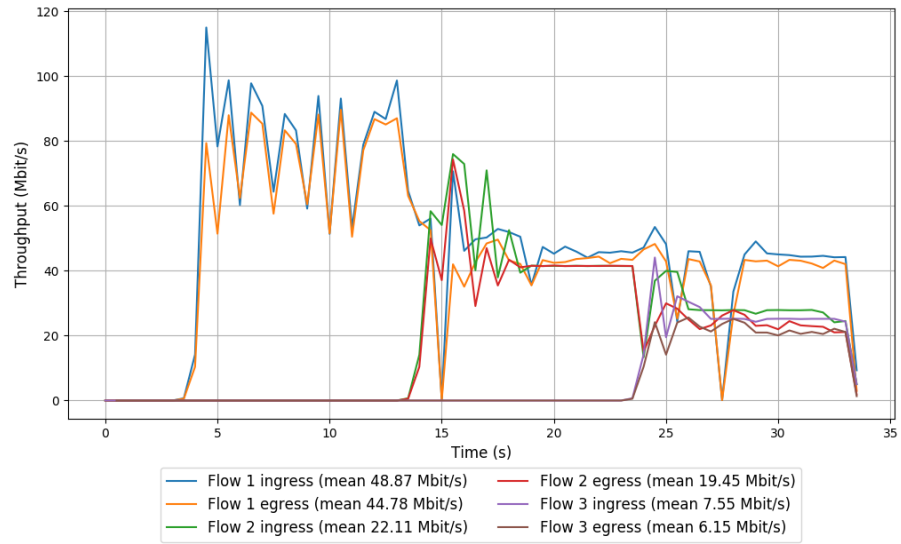
-- Flow 3:

Average throughput: 6.15 Mbit/s

95th percentile per-packet one-way delay: 67.528 ms

Loss rate: 18.85%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of CalibratedKoho

Start at: Sat, 01 Jul 2017 12:15:25 +0000

End at: Sat, 01 Jul 2017 12:15:55 +0000

Local clock offset: 0.537 ms

Remote clock offset: -10.857 ms

Below is generated by plot.py at Sat, 01 Jul 2017 16:17:24 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 76.39 Mbit/s

95th percentile per-packet one-way delay: 63.849 ms

Loss rate: 2.73%

-- Flow 1:

Average throughput: 51.72 Mbit/s

95th percentile per-packet one-way delay: 62.878 ms

Loss rate: 2.90%

-- Flow 2:

Average throughput: 24.24 Mbit/s

95th percentile per-packet one-way delay: 64.783 ms

Loss rate: 2.34%

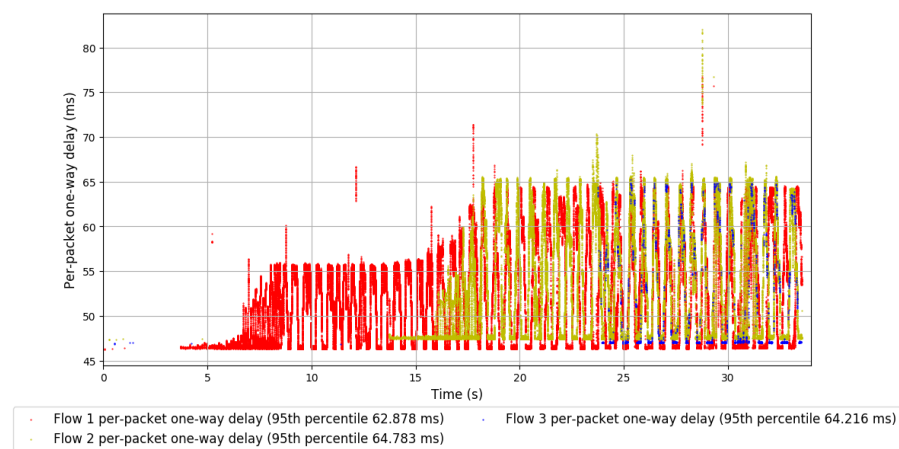
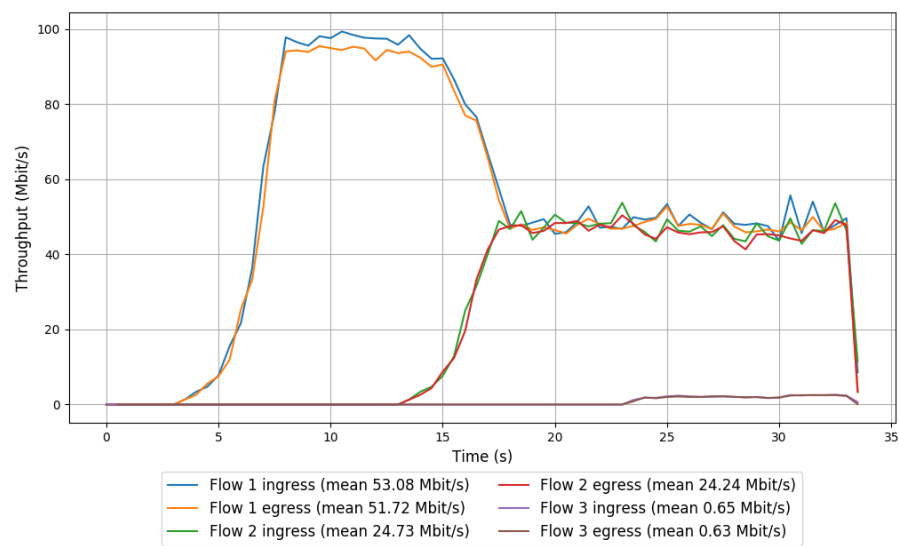
-- Flow 3:

Average throughput: 0.63 Mbit/s

95th percentile per-packet one-way delay: 64.216 ms

Loss rate: 4.01%

Run 1: Report of CalibratedKoho — Data Link



Run 2: Statistics of CalibratedKoho

Start at: Sat, 01 Jul 2017 12:34:05 +0000

End at: Sat, 01 Jul 2017 12:34:35 +0000

Local clock offset: 0.491 ms

Remote clock offset: -8.169 ms

Below is generated by plot.py at Sat, 01 Jul 2017 16:17:26 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 76.08 Mbit/s

95th percentile per-packet one-way delay: 62.905 ms

Loss rate: 3.23%

-- Flow 1:

Average throughput: 64.99 Mbit/s

95th percentile per-packet one-way delay: 60.659 ms

Loss rate: 3.26%

-- Flow 2:

Average throughput: 0.70 Mbit/s

95th percentile per-packet one-way delay: 63.026 ms

Loss rate: 5.66%

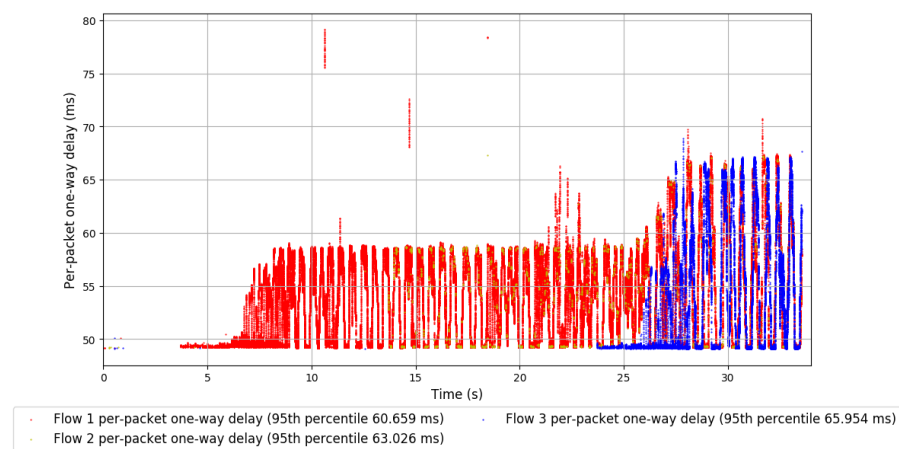
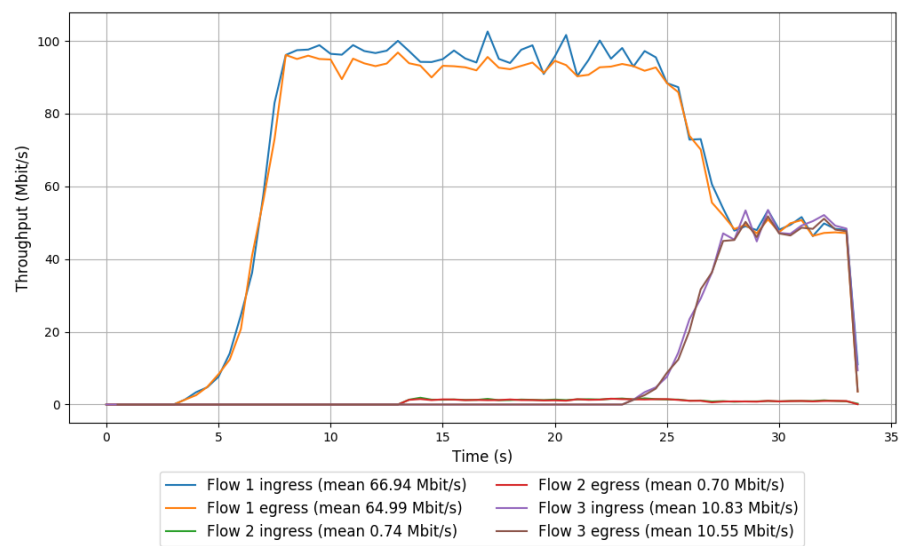
-- Flow 3:

Average throughput: 10.55 Mbit/s

95th percentile per-packet one-way delay: 65.954 ms

Loss rate: 2.84%

Run 2: Report of CalibratedKoho — Data Link



Run 3: Statistics of CalibratedKoho

Start at: Sat, 01 Jul 2017 12:52:53 +0000

End at: Sat, 01 Jul 2017 12:53:23 +0000

Local clock offset: 0.375 ms

Remote clock offset: -6.205 ms

Below is generated by plot.py at Sat, 01 Jul 2017 16:17:33 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 55.54 Mbit/s

95th percentile per-packet one-way delay: 67.552 ms

Loss rate: 3.14%

-- Flow 1:

Average throughput: 0.02 Mbit/s

95th percentile per-packet one-way delay: 4461.539 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 43.04 Mbit/s

95th percentile per-packet one-way delay: 66.386 ms

Loss rate: 3.29%

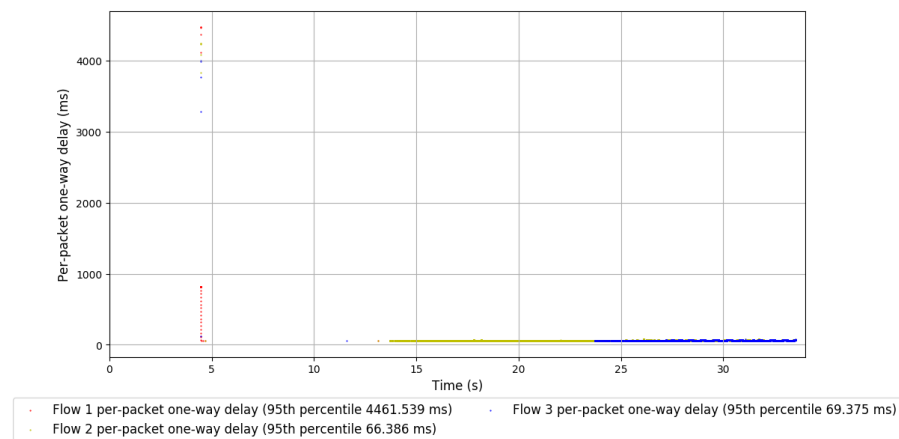
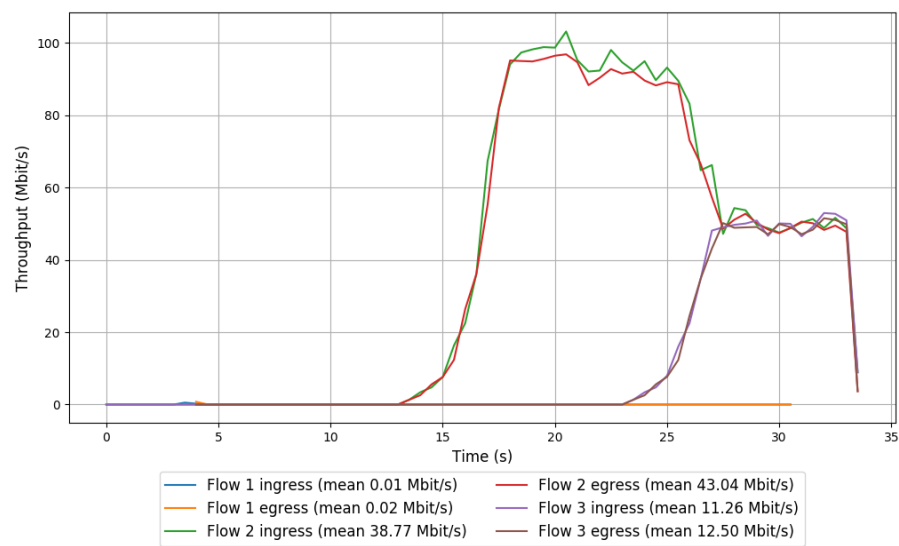
-- Flow 3:

Average throughput: 12.50 Mbit/s

95th percentile per-packet one-way delay: 69.375 ms

Loss rate: 2.64%

Run 3: Report of CalibratedKoho — Data Link



Run 4: Statistics of CalibratedKoho

Start at: Sat, 01 Jul 2017 13:11:28 +0000

End at: Sat, 01 Jul 2017 13:11:58 +0000

Local clock offset: 0.299 ms

Remote clock offset: -4.008 ms

Below is generated by plot.py at Sat, 01 Jul 2017 16:17:33 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 56.80 Mbit/s

95th percentile per-packet one-way delay: 69.540 ms

Loss rate: 3.04%

-- Flow 1:

Average throughput: 0.02 Mbit/s

95th percentile per-packet one-way delay: 5841.411 ms

Loss rate: 32.99%

-- Flow 2:

Average throughput: 44.59 Mbit/s

95th percentile per-packet one-way delay: 66.669 ms

Loss rate: 3.14%

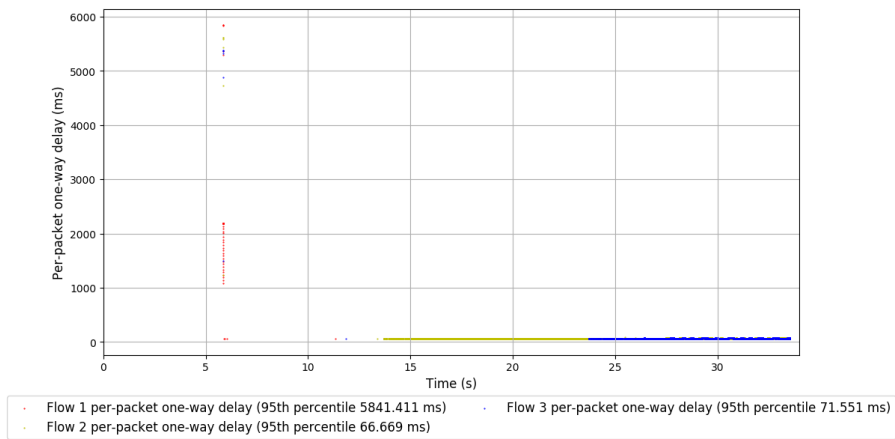
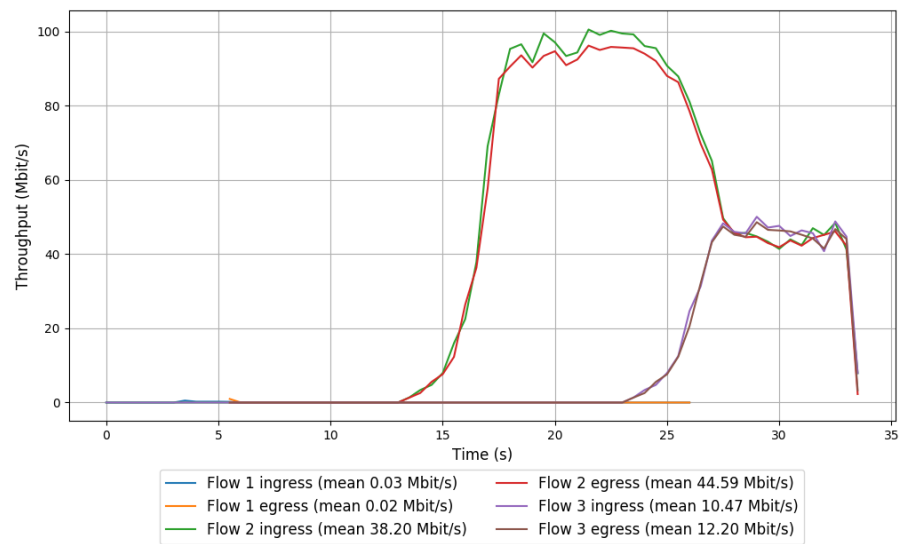
-- Flow 3:

Average throughput: 12.20 Mbit/s

95th percentile per-packet one-way delay: 71.551 ms

Loss rate: 2.60%

Run 4: Report of CalibratedKoho — Data Link



Run 5: Statistics of CalibratedKoho

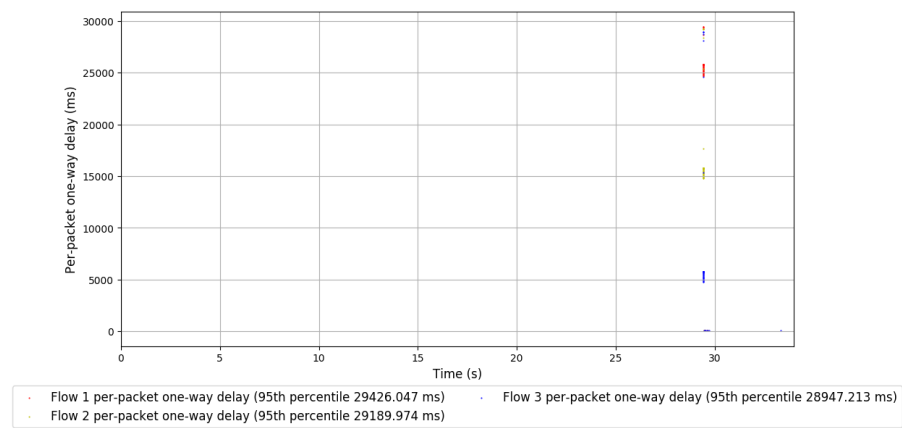
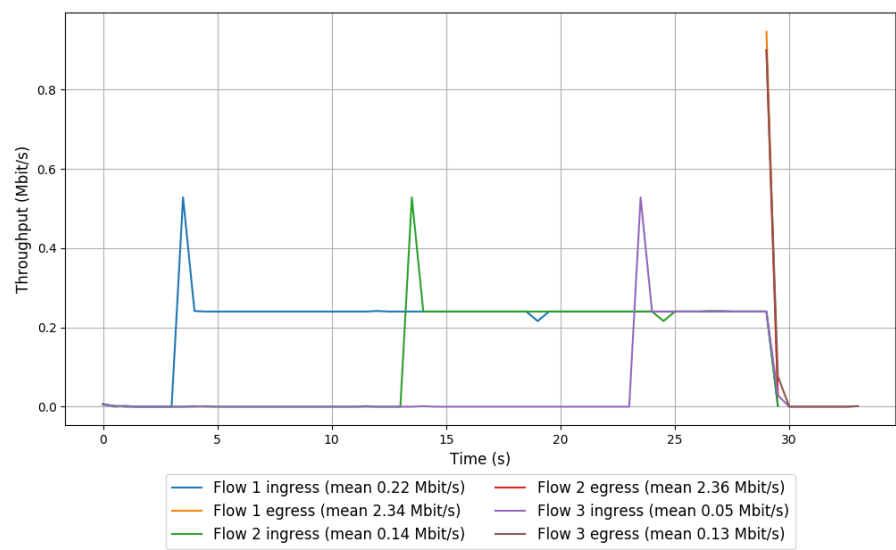
Start at: Sat, 01 Jul 2017 13:30:15 +0000

End at: Sat, 01 Jul 2017 13:30:45 +0000

Local clock offset: 0.261 ms

Remote clock offset: -2.8 ms

Run 5: Report of CalibratedKoho — Data Link



Run 6: Statistics of CalibratedKoho

Start at: Sat, 01 Jul 2017 13:48:45 +0000

End at: Sat, 01 Jul 2017 13:49:15 +0000

Local clock offset: 0.136 ms

Remote clock offset: -1.209 ms

Below is generated by plot.py at Sat, 01 Jul 2017 16:17:39 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 57.22 Mbit/s

95th percentile per-packet one-way delay: 72.502 ms

Loss rate: 2.96%

-- Flow 1:

Average throughput: 0.02 Mbit/s

95th percentile per-packet one-way delay: 6610.341 ms

Loss rate: 46.99%

-- Flow 2:

Average throughput: 44.63 Mbit/s

95th percentile per-packet one-way delay: 71.810 ms

Loss rate: 3.03%

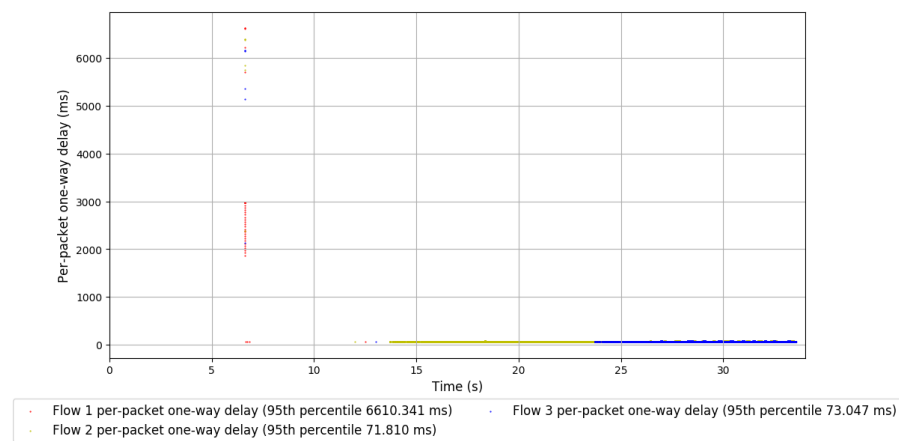
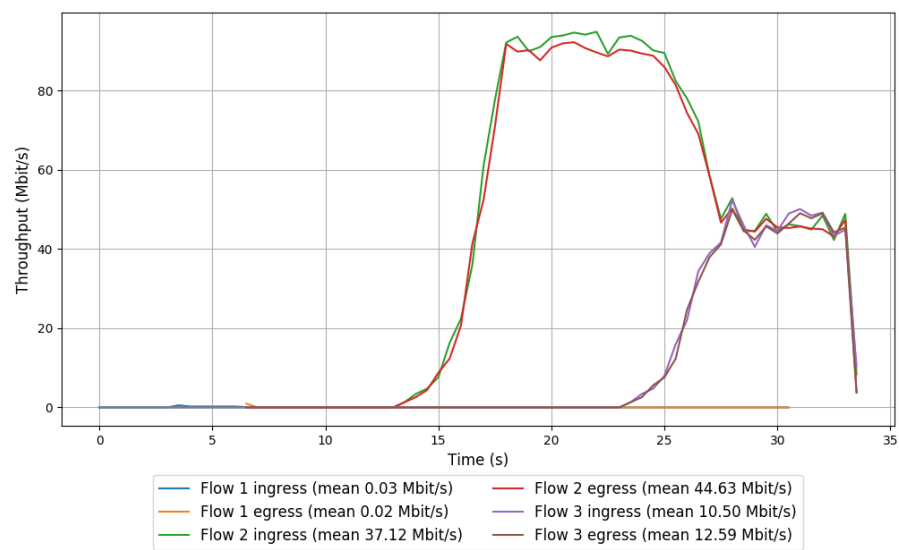
-- Flow 3:

Average throughput: 12.59 Mbit/s

95th percentile per-packet one-way delay: 73.047 ms

Loss rate: 2.61%

Run 6: Report of CalibratedKoho — Data Link



Run 7: Statistics of CalibratedKoho

Start at: Sat, 01 Jul 2017 14:07:15 +0000

End at: Sat, 01 Jul 2017 14:07:45 +0000

Local clock offset: 0.2 ms

Remote clock offset: -5.829 ms

Below is generated by plot.py at Sat, 01 Jul 2017 16:17:44 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 71.33 Mbit/s

95th percentile per-packet one-way delay: 65.923 ms

Loss rate: 2.91%

-- Flow 1:

Average throughput: 60.85 Mbit/s

95th percentile per-packet one-way delay: 63.897 ms

Loss rate: 2.95%

-- Flow 2:

Average throughput: 1.06 Mbit/s

95th percentile per-packet one-way delay: 67.223 ms

Loss rate: 3.29%

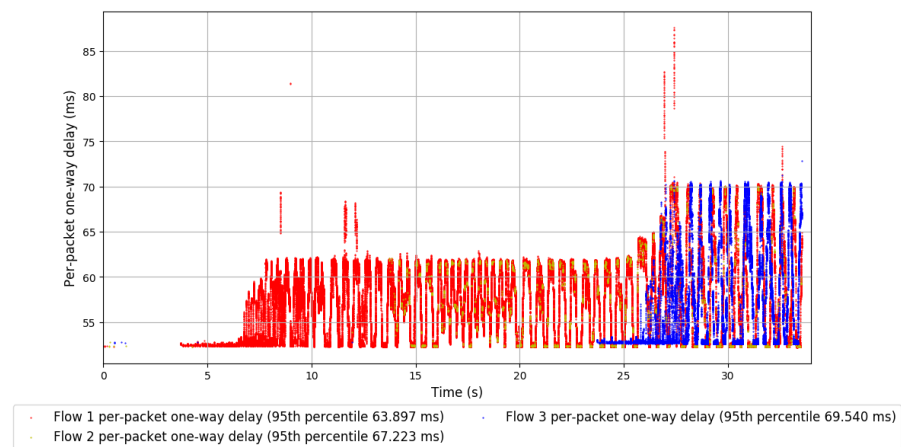
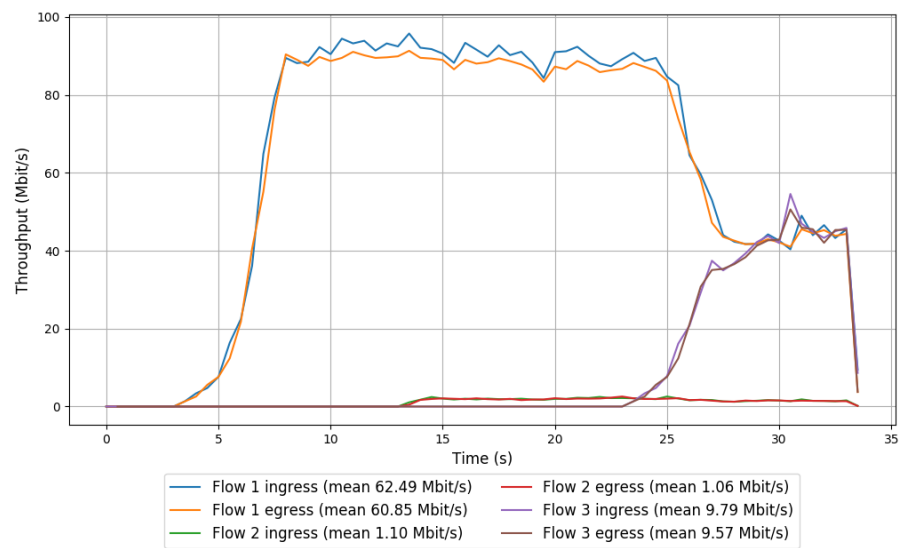
-- Flow 3:

Average throughput: 9.57 Mbit/s

95th percentile per-packet one-way delay: 69.540 ms

Loss rate: 2.64%

Run 7: Report of CalibratedKoho — Data Link



Run 8: Statistics of CalibratedKoho

Start at: Sat, 01 Jul 2017 14:25:54 +0000

End at: Sat, 01 Jul 2017 14:26:24 +0000

Local clock offset: 0.158 ms

Remote clock offset: -7.336 ms

Below is generated by plot.py at Sat, 01 Jul 2017 16:17:50 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 76.37 Mbit/s

95th percentile per-packet one-way delay: 67.606 ms

Loss rate: 2.62%

-- Flow 1:

Average throughput: 51.42 Mbit/s

95th percentile per-packet one-way delay: 67.336 ms

Loss rate: 2.74%

-- Flow 2:

Average throughput: 24.45 Mbit/s

95th percentile per-packet one-way delay: 67.938 ms

Loss rate: 2.30%

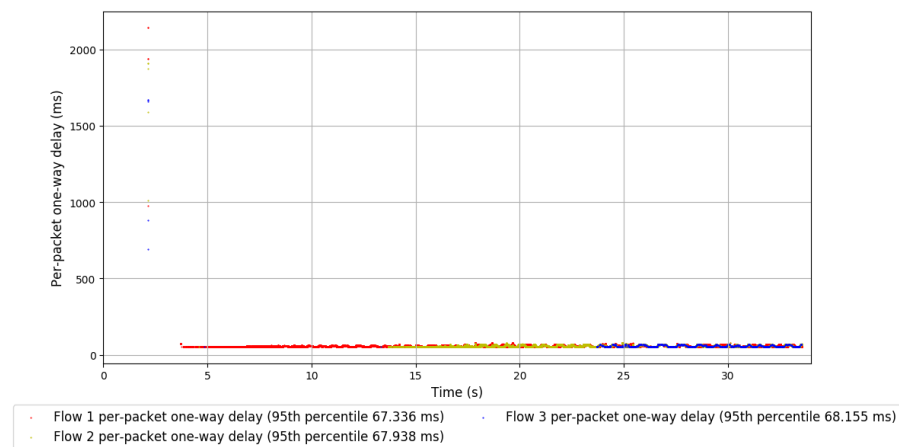
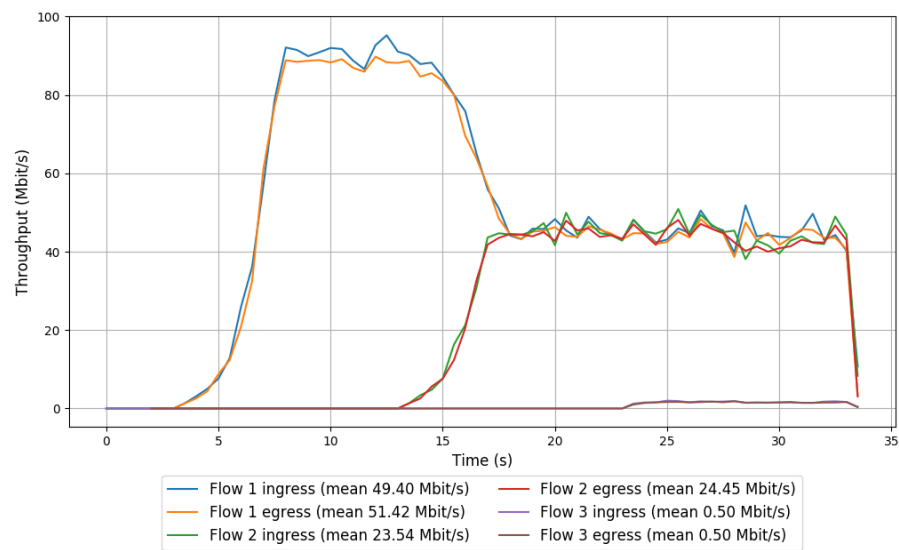
-- Flow 3:

Average throughput: 0.50 Mbit/s

95th percentile per-packet one-way delay: 68.155 ms

Loss rate: 5.79%

Run 8: Report of CalibratedKoho — Data Link



Run 9: Statistics of CalibratedKoho

Start at: Sat, 01 Jul 2017 14:44:26 +0000

End at: Sat, 01 Jul 2017 14:44:56 +0000

Local clock offset: 0.139 ms

Remote clock offset: -5.407 ms

Below is generated by plot.py at Sat, 01 Jul 2017 16:17:57 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 72.10 Mbit/s

95th percentile per-packet one-way delay: 69.019 ms

Loss rate: 2.18%

-- Flow 1:

Average throughput: 48.31 Mbit/s

95th percentile per-packet one-way delay: 68.902 ms

Loss rate: 2.37%

-- Flow 2:

Average throughput: 23.33 Mbit/s

95th percentile per-packet one-way delay: 69.126 ms

Loss rate: 1.78%

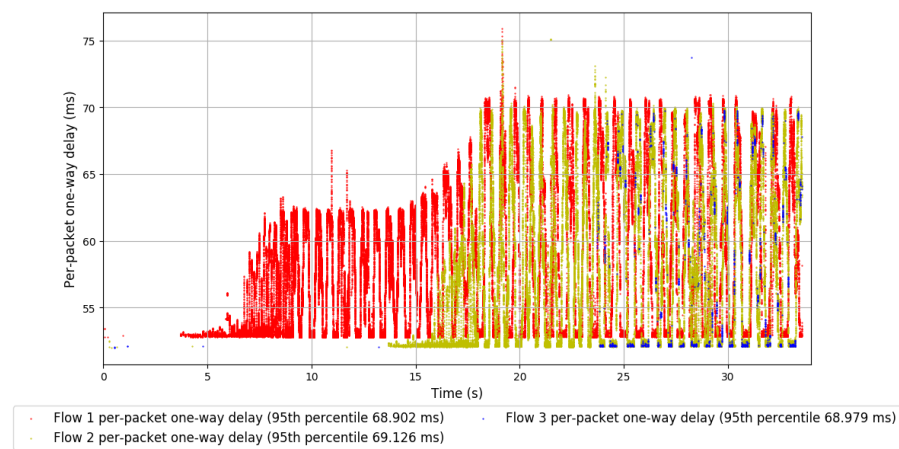
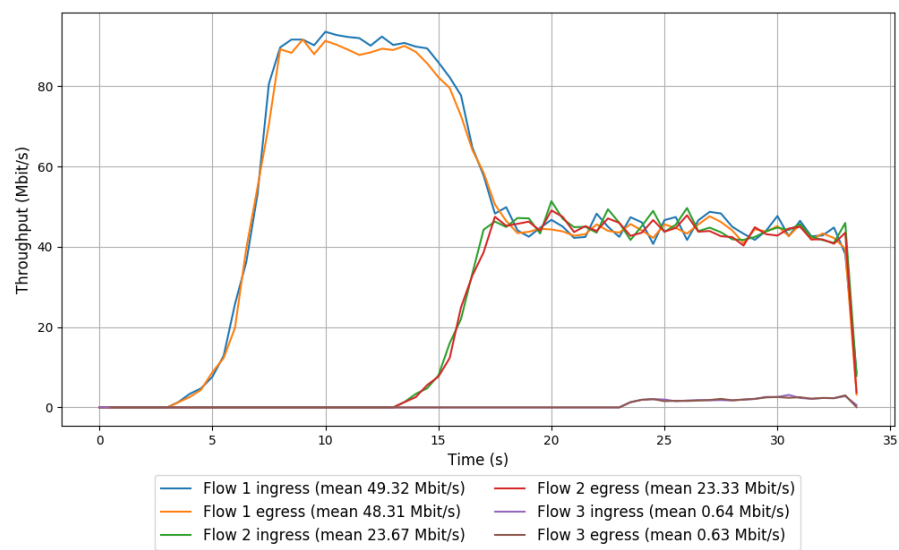
-- Flow 3:

Average throughput: 0.63 Mbit/s

95th percentile per-packet one-way delay: 68.979 ms

Loss rate: 2.64%

Run 9: Report of CalibratedKoho — Data Link



Run 10: Statistics of CalibratedKoho

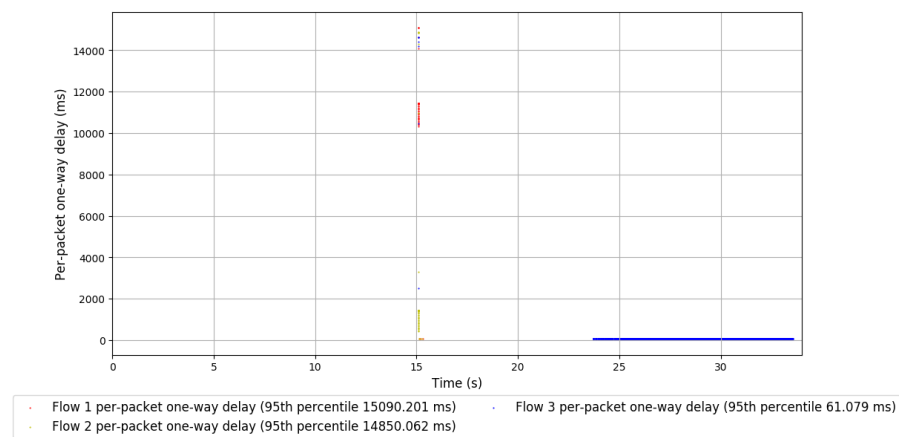
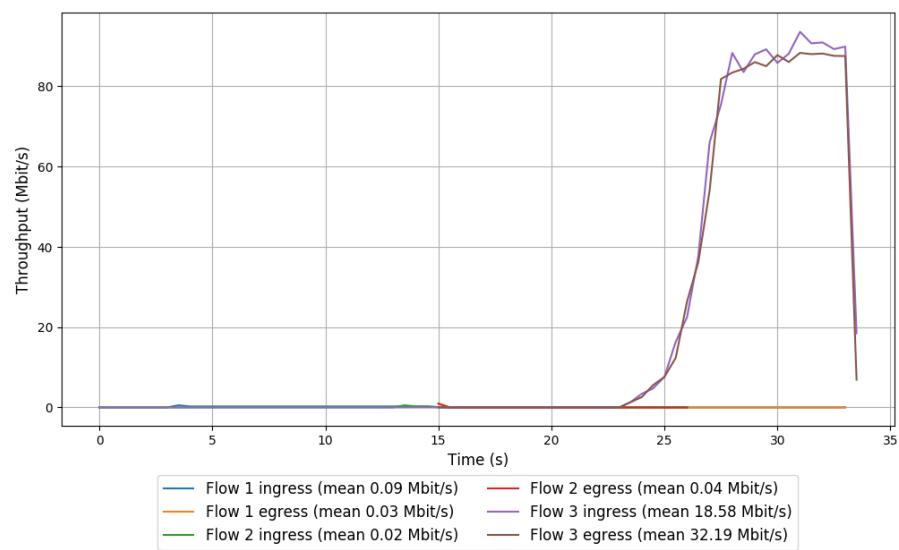
Start at: Sat, 01 Jul 2017 15:02:55 +0000

End at: Sat, 01 Jul 2017 15:03:25 +0000

Local clock offset: 0.177 ms

Remote clock offset: -6.148 ms

Run 10: Report of CalibratedKoho — Data Link



Run 1: Statistics of Copa

Start at: Sat, 01 Jul 2017 12:29:02 +0000

End at: Sat, 01 Jul 2017 12:29:32 +0000

Local clock offset: 0.452 ms

Remote clock offset: -9.231 ms

Below is generated by plot.py at Sat, 01 Jul 2017 16:18:15 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.44 Mbit/s

95th percentile per-packet one-way delay: 66.227 ms

Loss rate: 10.19%

-- Flow 1:

Average throughput: 54.35 Mbit/s

95th percentile per-packet one-way delay: 66.270 ms

Loss rate: 6.94%

-- Flow 2:

Average throughput: 26.62 Mbit/s

95th percentile per-packet one-way delay: 66.190 ms

Loss rate: 13.03%

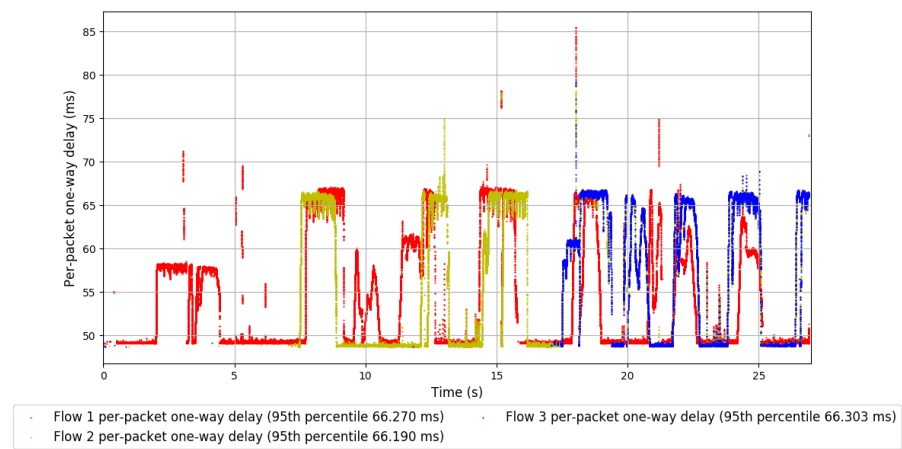
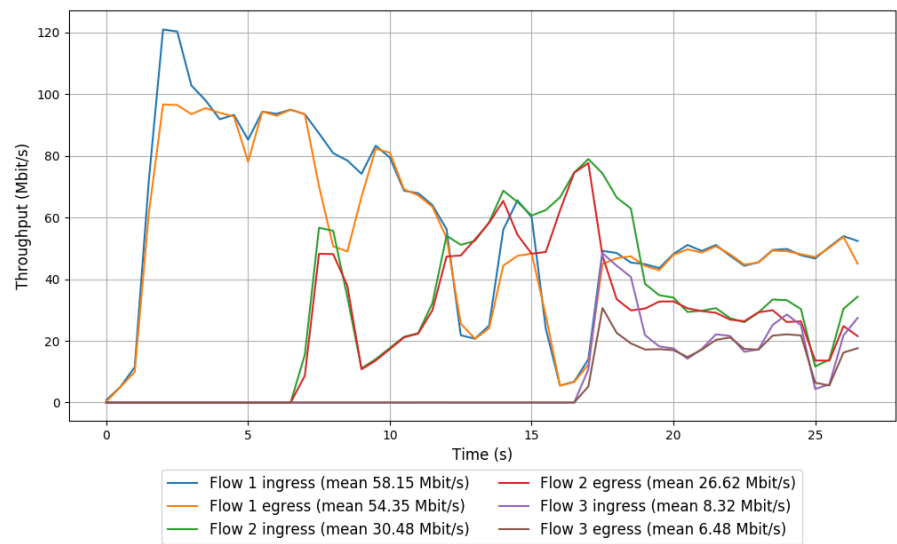
-- Flow 3:

Average throughput: 6.48 Mbit/s

95th percentile per-packet one-way delay: 66.303 ms

Loss rate: 22.43%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: Sat, 01 Jul 2017 12:47:46 +0000

End at: Sat, 01 Jul 2017 12:48:16 +0000

Local clock offset: 0.357 ms

Remote clock offset: -7.291 ms

Below is generated by plot.py at Sat, 01 Jul 2017 16:18:15 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 82.27 Mbit/s

95th percentile per-packet one-way delay: 68.173 ms

Loss rate: 10.09%

-- Flow 1:

Average throughput: 44.60 Mbit/s

95th percentile per-packet one-way delay: 68.211 ms

Loss rate: 8.38%

-- Flow 2:

Average throughput: 25.92 Mbit/s

95th percentile per-packet one-way delay: 68.212 ms

Loss rate: 11.46%

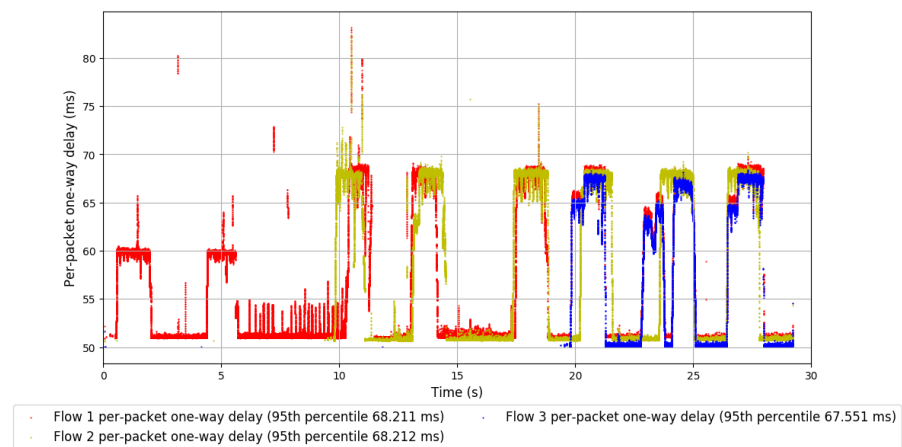
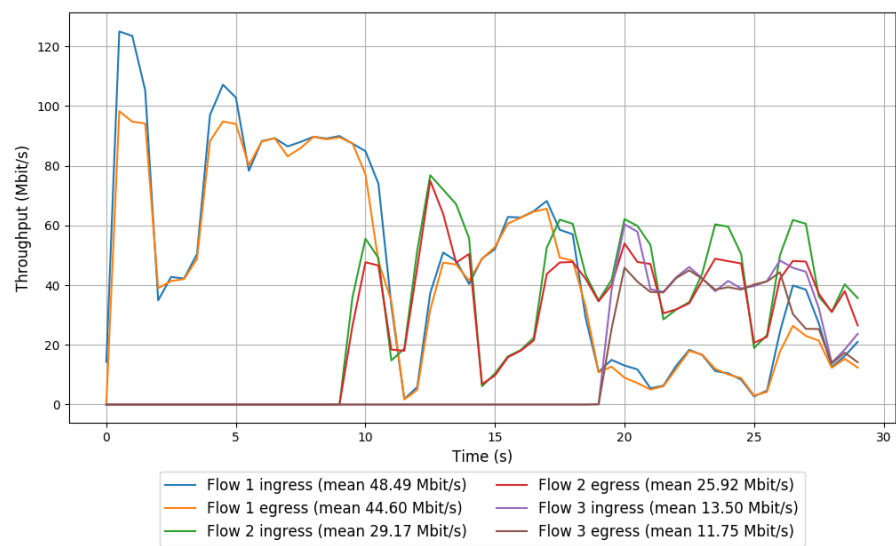
-- Flow 3:

Average throughput: 11.75 Mbit/s

95th percentile per-packet one-way delay: 67.551 ms

Loss rate: 13.29%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: Sat, 01 Jul 2017 13:06:29 +0000

End at: Sat, 01 Jul 2017 13:06:59 +0000

Local clock offset: 0.319 ms

Remote clock offset: -4.137 ms

Below is generated by plot.py at Sat, 01 Jul 2017 16:18:35 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.28 Mbit/s

95th percentile per-packet one-way delay: 70.299 ms

Loss rate: 4.07%

-- Flow 1:

Average throughput: 55.20 Mbit/s

95th percentile per-packet one-way delay: 70.290 ms

Loss rate: 4.01%

-- Flow 2:

Average throughput: 24.66 Mbit/s

95th percentile per-packet one-way delay: 70.350 ms

Loss rate: 2.92%

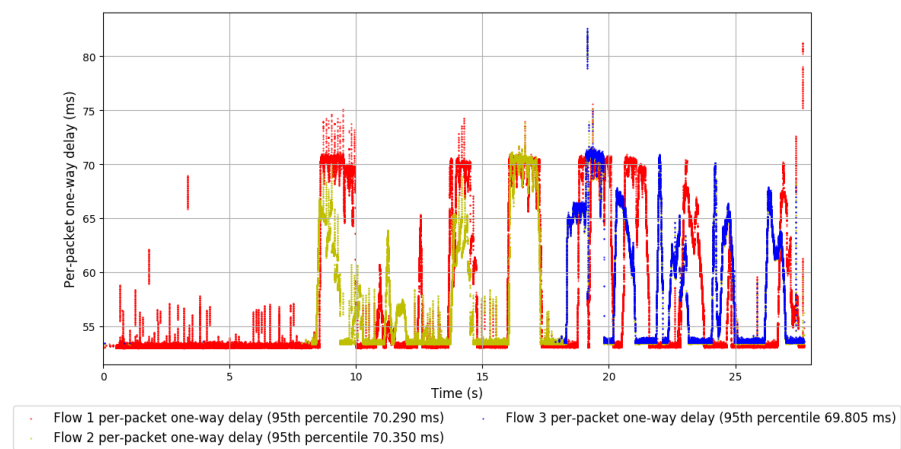
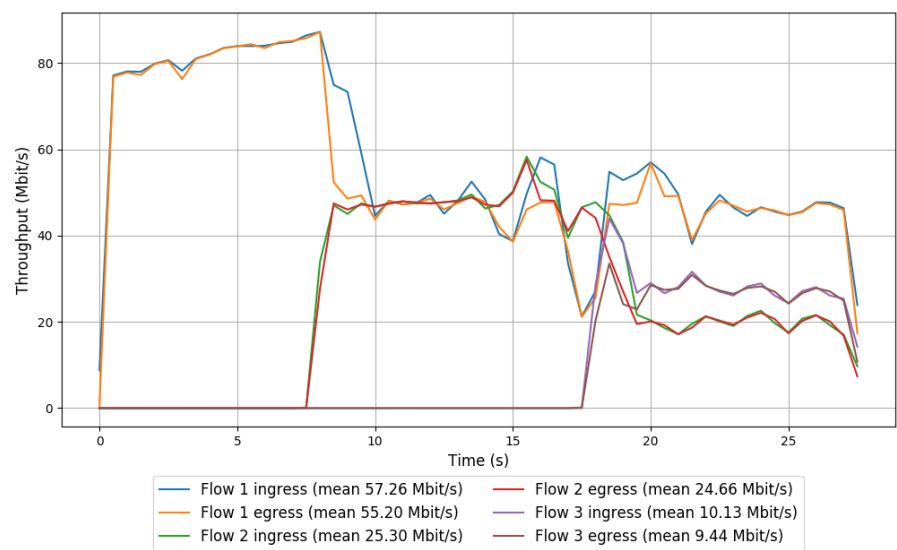
-- Flow 3:

Average throughput: 9.44 Mbit/s

95th percentile per-packet one-way delay: 69.805 ms

Loss rate: 7.27%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: Sat, 01 Jul 2017 13:25:08 +0000

End at: Sat, 01 Jul 2017 13:25:38 +0000

Local clock offset: 0.219 ms

Remote clock offset: -3.681 ms

Below is generated by plot.py at Sat, 01 Jul 2017 16:18:35 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.39 Mbit/s

95th percentile per-packet one-way delay: 71.932 ms

Loss rate: 7.95%

-- Flow 1:

Average throughput: 52.99 Mbit/s

95th percentile per-packet one-way delay: 72.031 ms

Loss rate: 7.22%

-- Flow 2:

Average throughput: 32.40 Mbit/s

95th percentile per-packet one-way delay: 71.253 ms

Loss rate: 9.11%

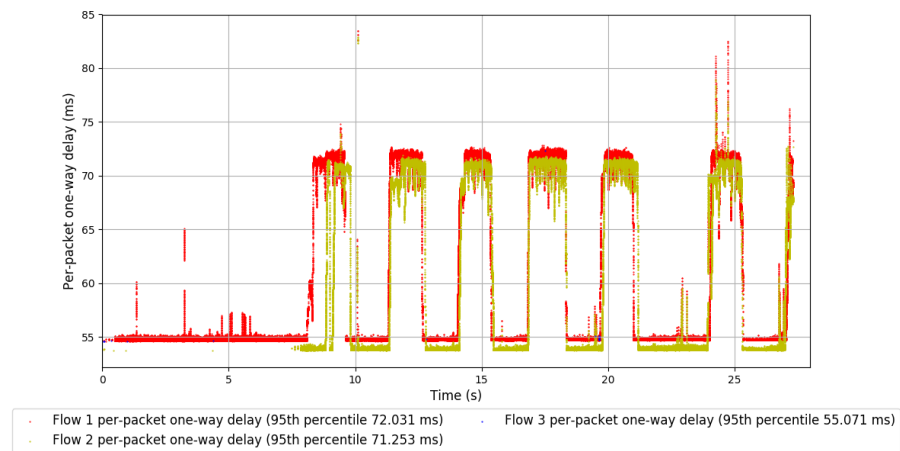
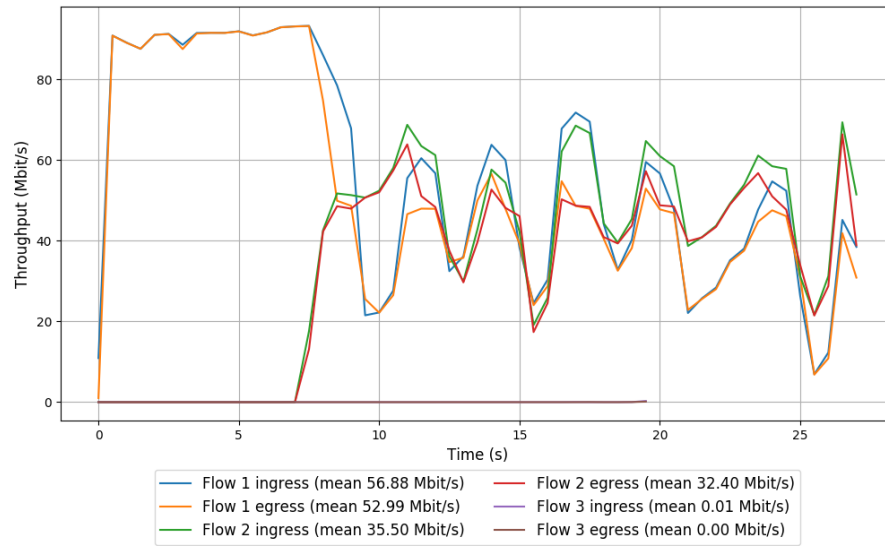
-- Flow 3:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 55.071 ms

Loss rate: 45.24%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: Sat, 01 Jul 2017 13:43:48 +0000

End at: Sat, 01 Jul 2017 13:44:18 +0000

Local clock offset: 0.241 ms

Remote clock offset: -1.522 ms

Below is generated by plot.py at Sat, 01 Jul 2017 16:18:54 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 72.33 Mbit/s

95th percentile per-packet one-way delay: 73.768 ms

Loss rate: 9.98%

-- Flow 1:

Average throughput: 49.14 Mbit/s

95th percentile per-packet one-way delay: 73.516 ms

Loss rate: 5.13%

-- Flow 2:

Average throughput: 19.39 Mbit/s

95th percentile per-packet one-way delay: 73.979 ms

Loss rate: 16.16%

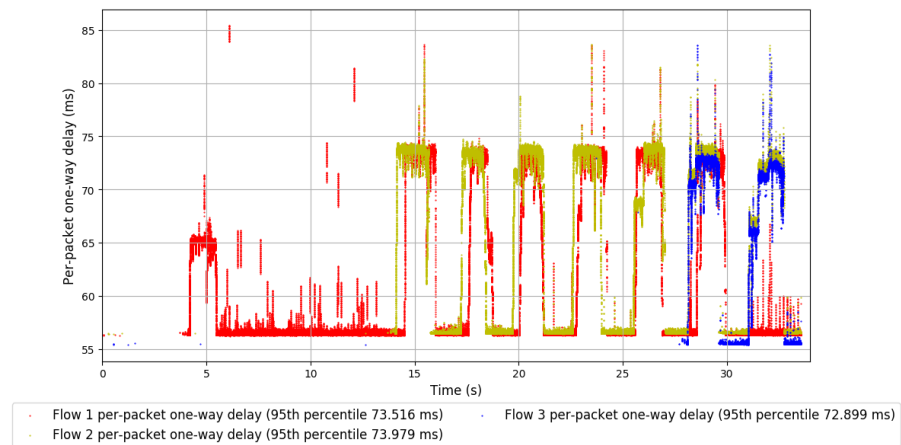
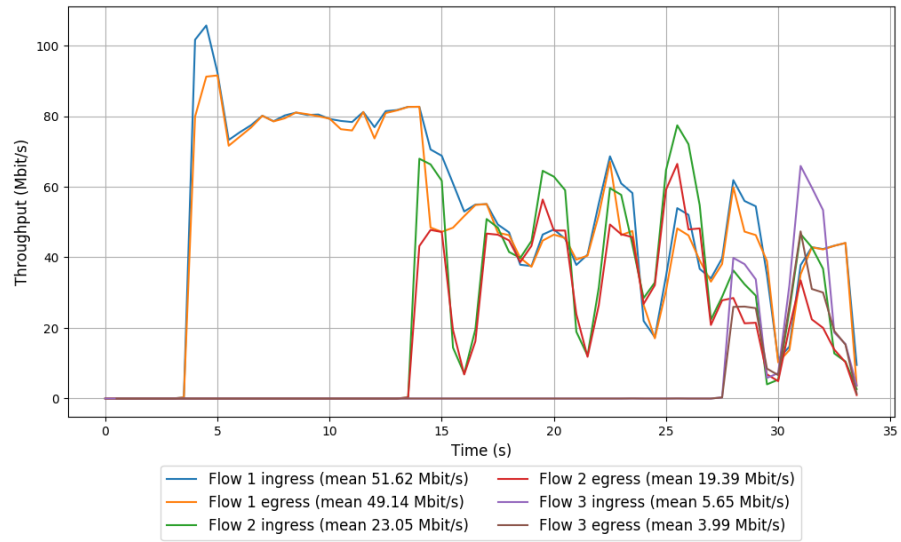
-- Flow 3:

Average throughput: 3.99 Mbit/s

95th percentile per-packet one-way delay: 72.899 ms

Loss rate: 29.55%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: Sat, 01 Jul 2017 14:02:17 +0000

End at: Sat, 01 Jul 2017 14:02:47 +0000

Local clock offset: 0.168 ms

Remote clock offset: -4.213 ms

Below is generated by plot.py at Sat, 01 Jul 2017 16:18:54 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 68.03 Mbit/s

95th percentile per-packet one-way delay: 62.956 ms

Loss rate: 6.60%

-- Flow 1:

Average throughput: 39.73 Mbit/s

95th percentile per-packet one-way delay: 62.685 ms

Loss rate: 4.56%

-- Flow 2:

Average throughput: 13.91 Mbit/s

95th percentile per-packet one-way delay: 62.874 ms

Loss rate: 10.59%

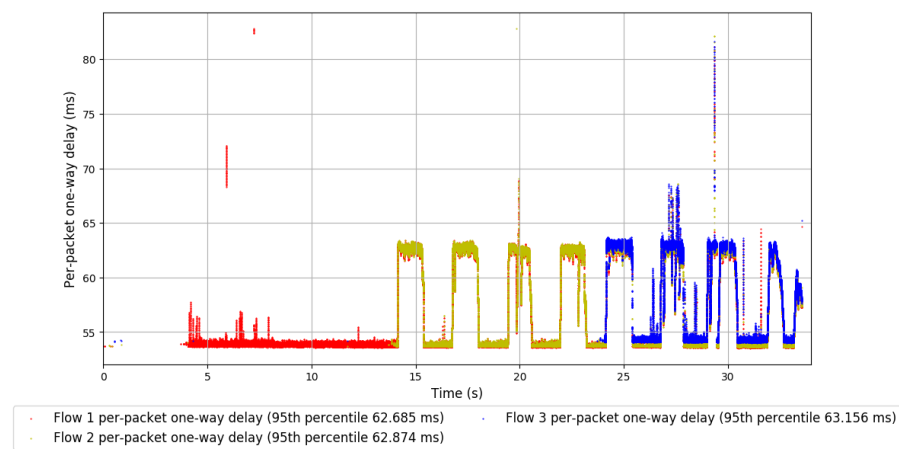
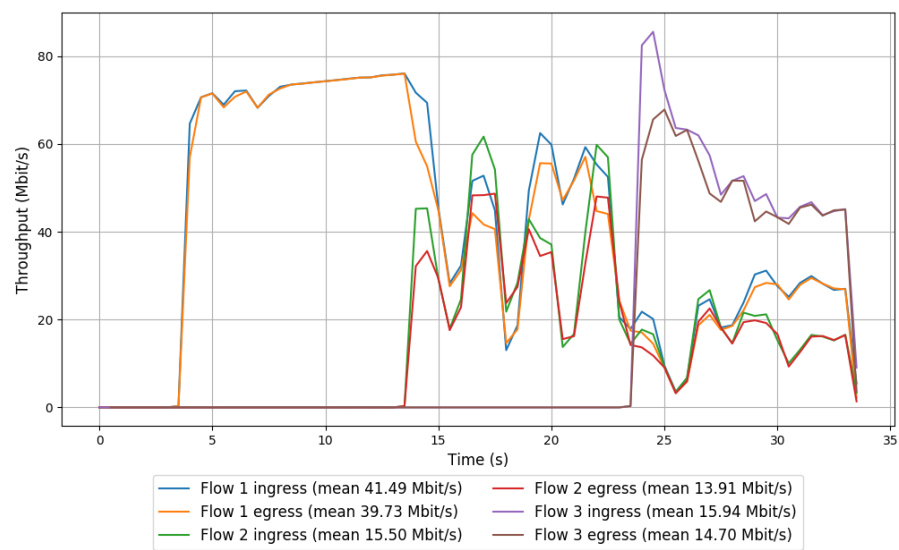
-- Flow 3:

Average throughput: 14.70 Mbit/s

95th percentile per-packet one-way delay: 63.156 ms

Loss rate: 8.08%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: Sat, 01 Jul 2017 14:20:56 +0000

End at: Sat, 01 Jul 2017 14:21:26 +0000

Local clock offset: 0.146 ms

Remote clock offset: -7.559 ms

Below is generated by plot.py at Sat, 01 Jul 2017 16:19:10 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 67.06 Mbit/s

95th percentile per-packet one-way delay: 67.748 ms

Loss rate: 8.33%

-- Flow 1:

Average throughput: 45.99 Mbit/s

95th percentile per-packet one-way delay: 67.630 ms

Loss rate: 3.96%

-- Flow 2:

Average throughput: 15.92 Mbit/s

95th percentile per-packet one-way delay: 67.828 ms

Loss rate: 13.49%

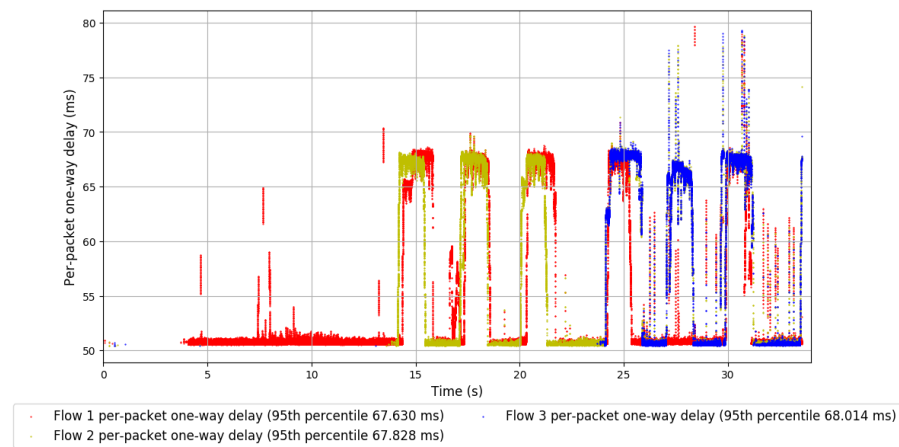
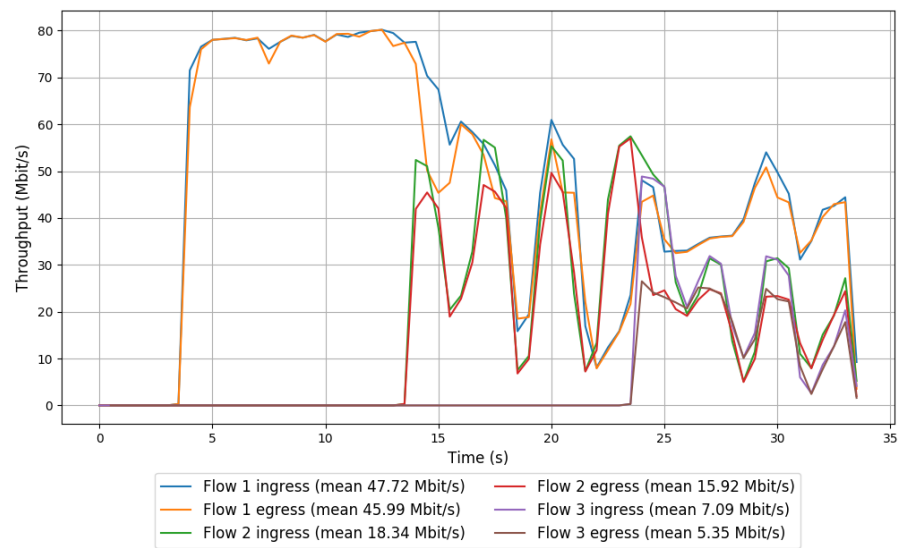
-- Flow 3:

Average throughput: 5.35 Mbit/s

95th percentile per-packet one-way delay: 68.014 ms

Loss rate: 24.81%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: Sat, 01 Jul 2017 14:39:26 +0000

End at: Sat, 01 Jul 2017 14:39:56 +0000

Local clock offset: 0.063 ms

Remote clock offset: -5.619 ms

Below is generated by plot.py at Sat, 01 Jul 2017 16:19:13 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 71.36 Mbit/s

95th percentile per-packet one-way delay: 69.223 ms

Loss rate: 6.57%

-- Flow 1:

Average throughput: 42.43 Mbit/s

95th percentile per-packet one-way delay: 65.747 ms

Loss rate: 4.17%

-- Flow 2:

Average throughput: 17.94 Mbit/s

95th percentile per-packet one-way delay: 69.014 ms

Loss rate: 9.66%

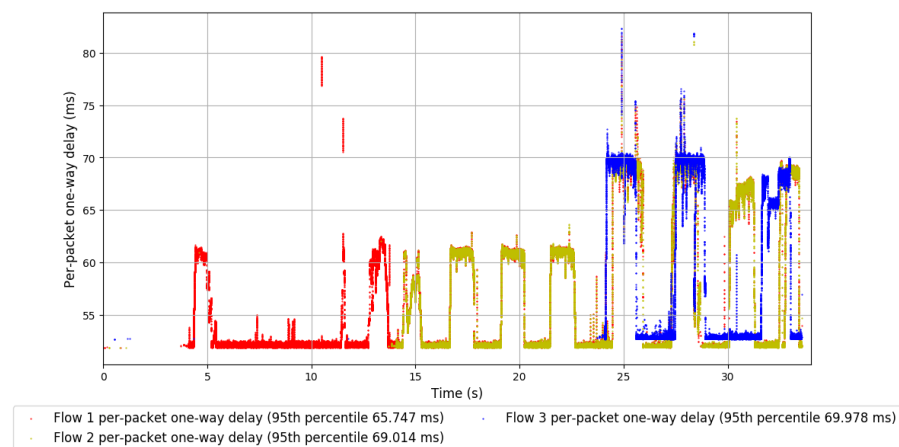
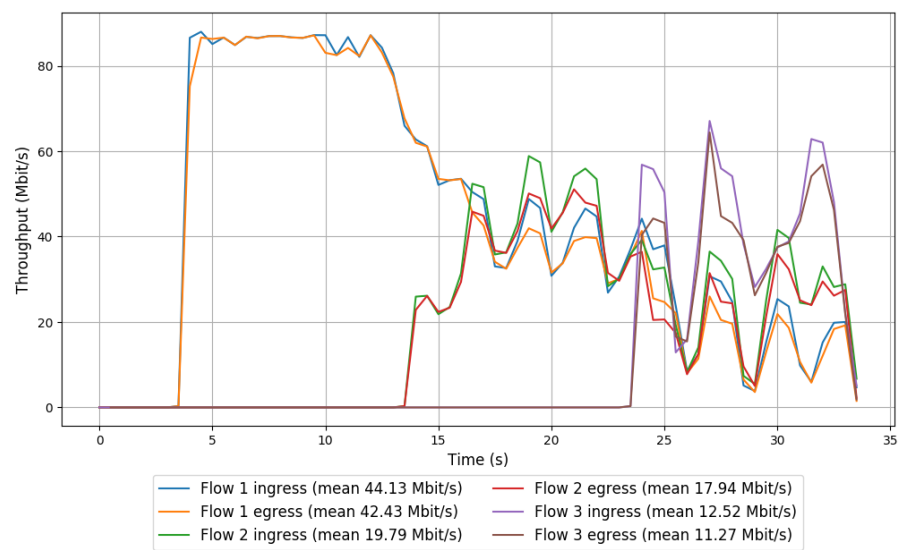
-- Flow 3:

Average throughput: 11.27 Mbit/s

95th percentile per-packet one-way delay: 69.978 ms

Loss rate: 10.24%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: Sat, 01 Jul 2017 14:57:57 +0000

End at: Sat, 01 Jul 2017 14:58:27 +0000

Local clock offset: 0.121 ms

Remote clock offset: -5.653 ms

Below is generated by plot.py at Sat, 01 Jul 2017 16:19:29 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 73.42 Mbit/s

95th percentile per-packet one-way delay: 61.578 ms

Loss rate: 5.62%

-- Flow 1:

Average throughput: 46.05 Mbit/s

95th percentile per-packet one-way delay: 61.234 ms

Loss rate: 3.39%

-- Flow 2:

Average throughput: 27.37 Mbit/s

95th percentile per-packet one-way delay: 61.766 ms

Loss rate: 9.14%

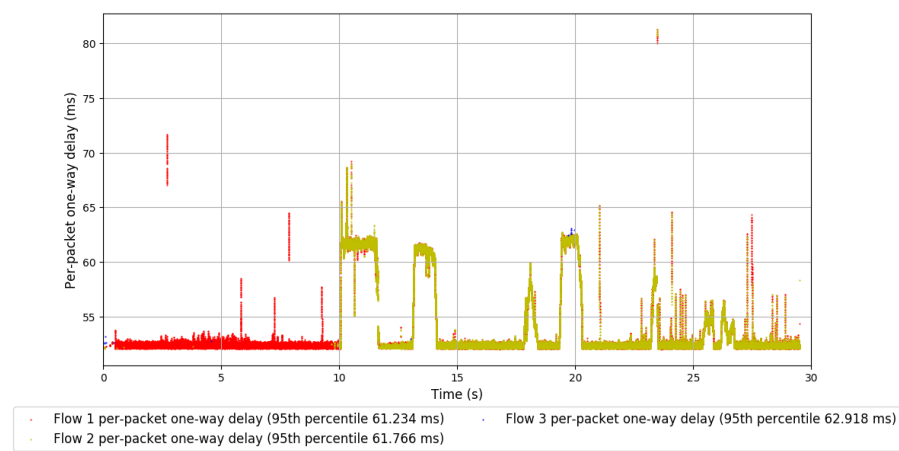
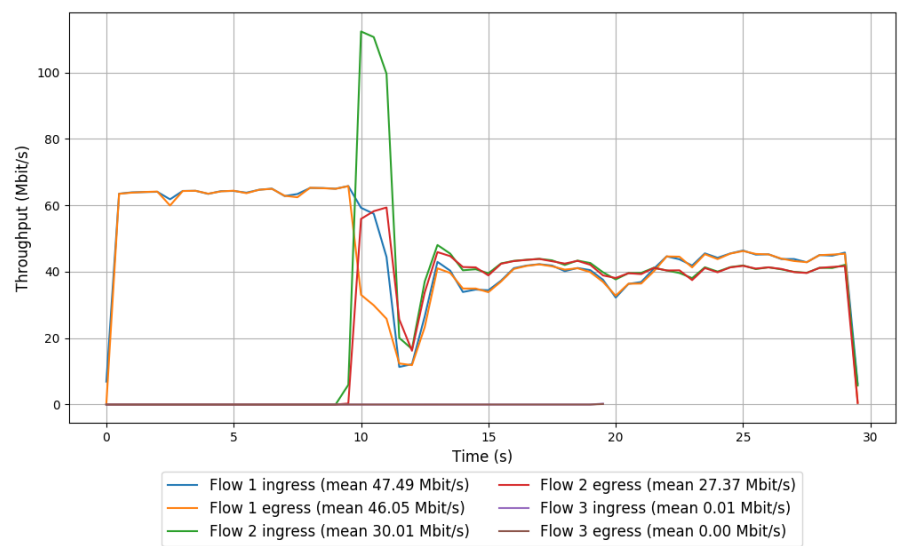
-- Flow 3:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 62.918 ms

Loss rate: 39.81%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: Sat, 01 Jul 2017 15:16:25 +0000

End at: Sat, 01 Jul 2017 15:16:55 +0000

Local clock offset: -0.02 ms

Remote clock offset: -7.353 ms

Below is generated by plot.py at Sat, 01 Jul 2017 16:19:31 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 65.11 Mbit/s

95th percentile per-packet one-way delay: 67.123 ms

Loss rate: 10.35%

-- Flow 1:

Average throughput: 35.98 Mbit/s

95th percentile per-packet one-way delay: 65.950 ms

Loss rate: 12.36%

-- Flow 2:

Average throughput: 18.27 Mbit/s

95th percentile per-packet one-way delay: 67.162 ms

Loss rate: 9.42%

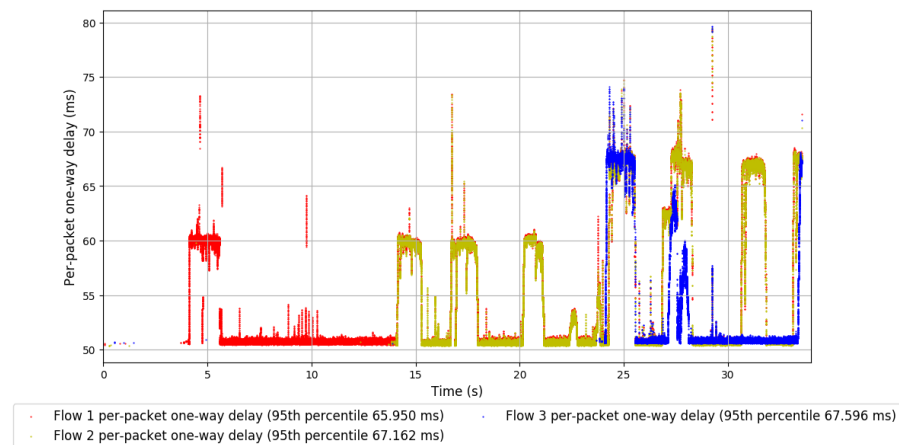
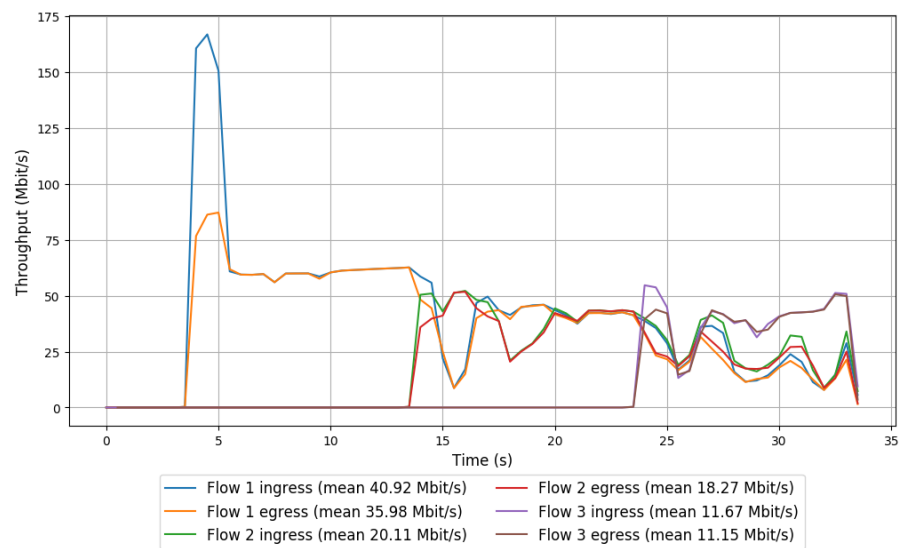
-- Flow 3:

Average throughput: 11.15 Mbit/s

95th percentile per-packet one-way delay: 67.596 ms

Loss rate: 4.79%

Run 10: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: Sat, 01 Jul 2017 12:27:49 +0000

End at: Sat, 01 Jul 2017 12:28:19 +0000

Local clock offset: 0.409 ms

Remote clock offset: -8.991 ms

Below is generated by plot.py at Sat, 01 Jul 2017 16:19:35 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 40.41 Mbit/s

95th percentile per-packet one-way delay: 50.164 ms

Loss rate: 1.49%

-- Flow 1:

Average throughput: 18.26 Mbit/s

95th percentile per-packet one-way delay: 50.060 ms

Loss rate: 1.21%

-- Flow 2:

Average throughput: 9.13 Mbit/s

95th percentile per-packet one-way delay: 50.309 ms

Loss rate: 1.49%

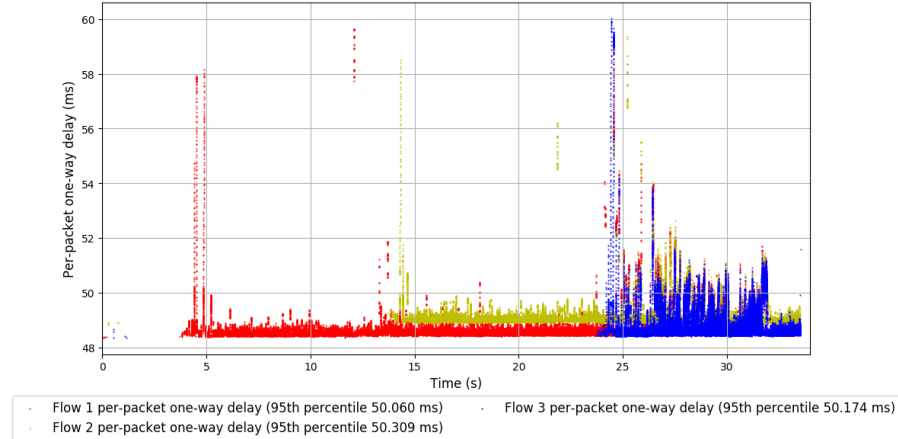
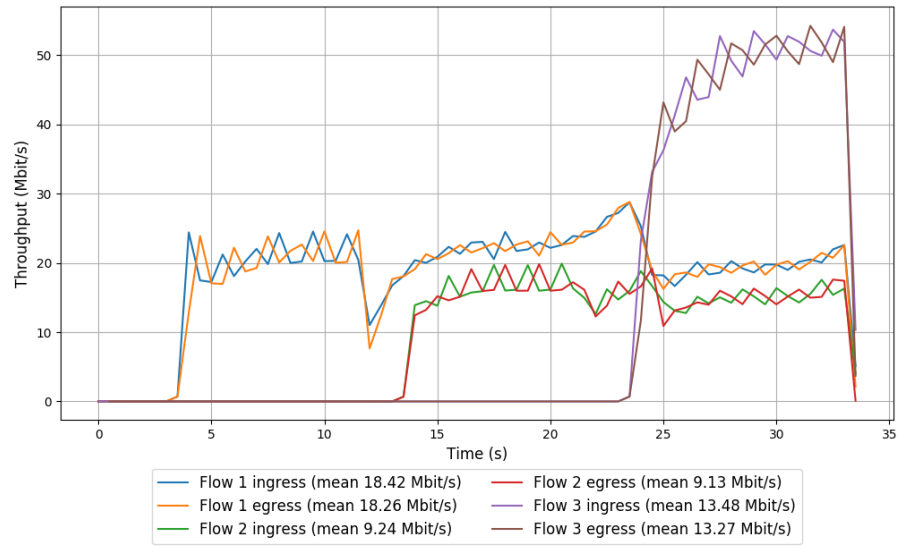
-- Flow 3:

Average throughput: 13.27 Mbit/s

95th percentile per-packet one-way delay: 50.174 ms

Loss rate: 1.89%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: Sat, 01 Jul 2017 12:46:32 +0000

End at: Sat, 01 Jul 2017 12:47:02 +0000

Local clock offset: 0.44 ms

Remote clock offset: -7.301 ms

Below is generated by plot.py at Sat, 01 Jul 2017 16:19:39 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 52.75 Mbit/s

95th percentile per-packet one-way delay: 55.411 ms

Loss rate: 1.43%

-- Flow 1:

Average throughput: 25.42 Mbit/s

95th percentile per-packet one-way delay: 55.148 ms

Loss rate: 0.80%

-- Flow 2:

Average throughput: 19.13 Mbit/s

95th percentile per-packet one-way delay: 57.135 ms

Loss rate: 1.74%

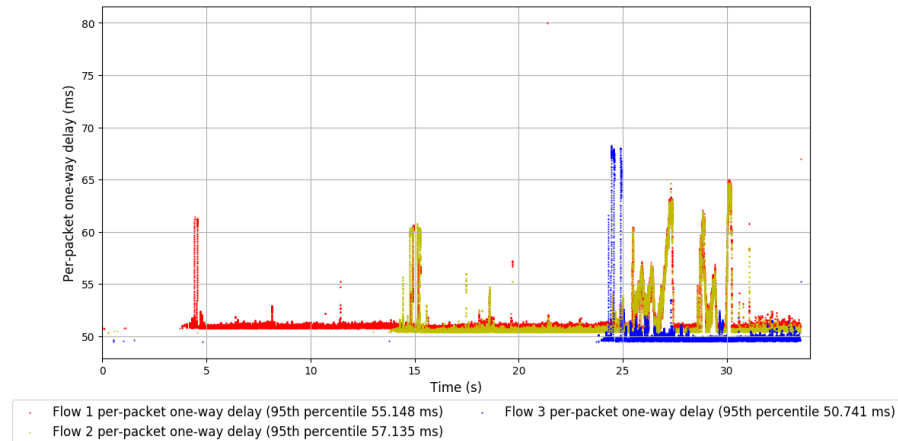
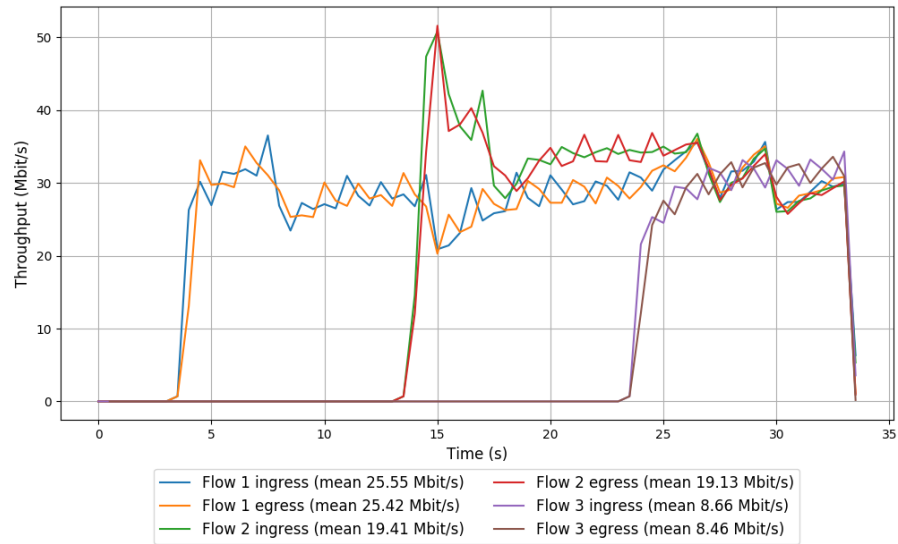
-- Flow 3:

Average throughput: 8.46 Mbit/s

95th percentile per-packet one-way delay: 50.741 ms

Loss rate: 2.61%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: Sat, 01 Jul 2017 13:05:17 +0000

End at: Sat, 01 Jul 2017 13:05:47 +0000

Local clock offset: 0.278 ms

Remote clock offset: -4.515 ms

Below is generated by plot.py at Sat, 01 Jul 2017 16:19:43 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 38.37 Mbit/s

95th percentile per-packet one-way delay: 54.011 ms

Loss rate: 1.72%

-- Flow 1:

Average throughput: 12.77 Mbit/s

95th percentile per-packet one-way delay: 54.024 ms

Loss rate: 1.36%

-- Flow 2:

Average throughput: 17.63 Mbit/s

95th percentile per-packet one-way delay: 53.965 ms

Loss rate: 1.55%

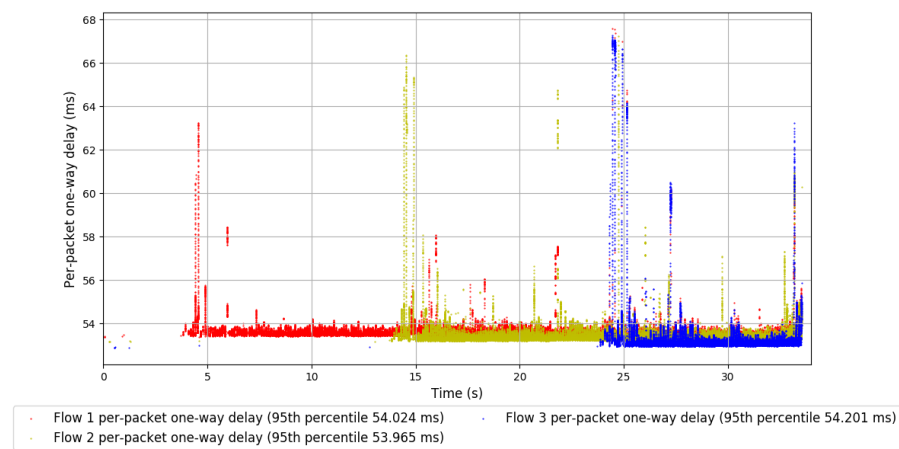
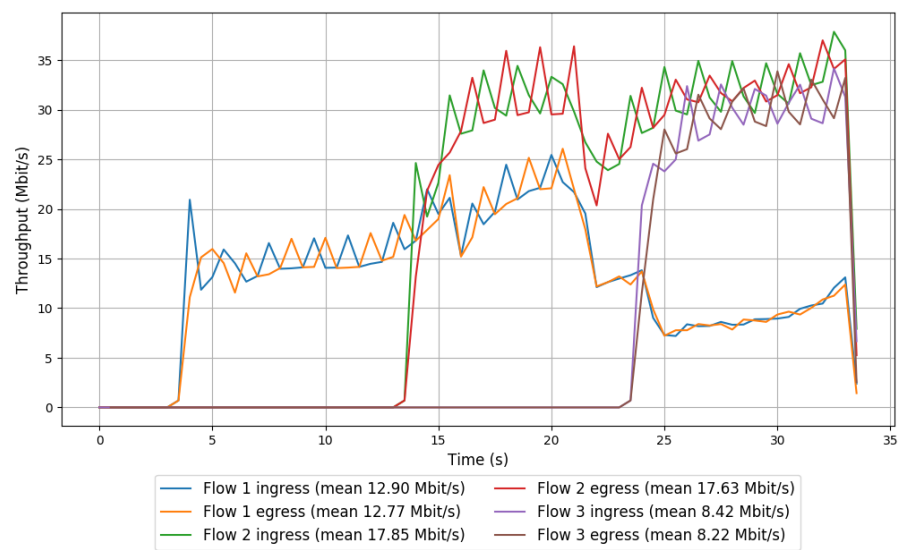
-- Flow 3:

Average throughput: 8.22 Mbit/s

95th percentile per-packet one-way delay: 54.201 ms

Loss rate: 2.66%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: Sat, 01 Jul 2017 13:23:55 +0000

End at: Sat, 01 Jul 2017 13:24:25 +0000

Local clock offset: 0.267 ms

Remote clock offset: -3.496 ms

Below is generated by plot.py at Sat, 01 Jul 2017 16:19:47 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 42.19 Mbit/s

95th percentile per-packet one-way delay: 55.360 ms

Loss rate: 1.27%

-- Flow 1:

Average throughput: 18.18 Mbit/s

95th percentile per-packet one-way delay: 55.494 ms

Loss rate: 0.96%

-- Flow 2:

Average throughput: 15.96 Mbit/s

95th percentile per-packet one-way delay: 54.671 ms

Loss rate: 1.20%

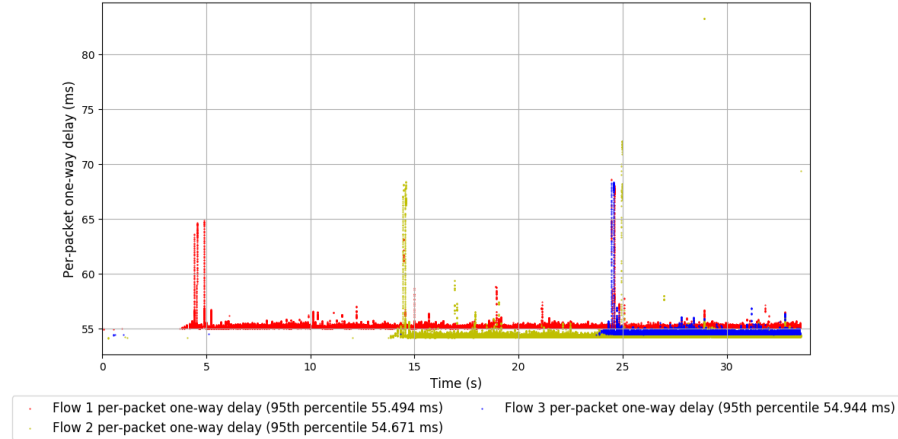
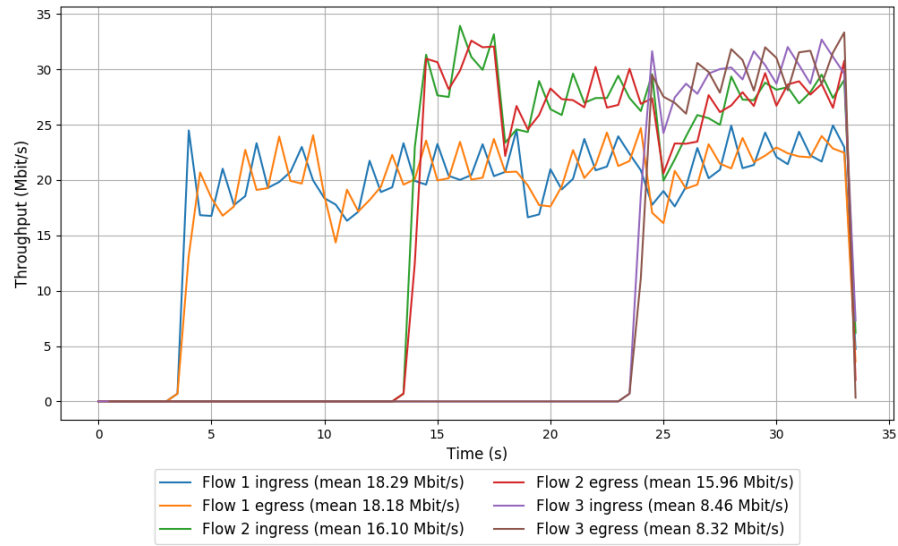
-- Flow 3:

Average throughput: 8.32 Mbit/s

95th percentile per-packet one-way delay: 54.944 ms

Loss rate: 2.08%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: Sat, 01 Jul 2017 13:42:34 +0000

End at: Sat, 01 Jul 2017 13:43:04 +0000

Local clock offset: 0.23 ms

Remote clock offset: -2.176 ms

Below is generated by plot.py at Sat, 01 Jul 2017 16:19:51 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 52.22 Mbit/s

95th percentile per-packet one-way delay: 60.973 ms

Loss rate: 0.88%

-- Flow 1:

Average throughput: 30.81 Mbit/s

95th percentile per-packet one-way delay: 63.783 ms

Loss rate: 0.73%

-- Flow 2:

Average throughput: 15.36 Mbit/s

95th percentile per-packet one-way delay: 56.561 ms

Loss rate: 0.71%

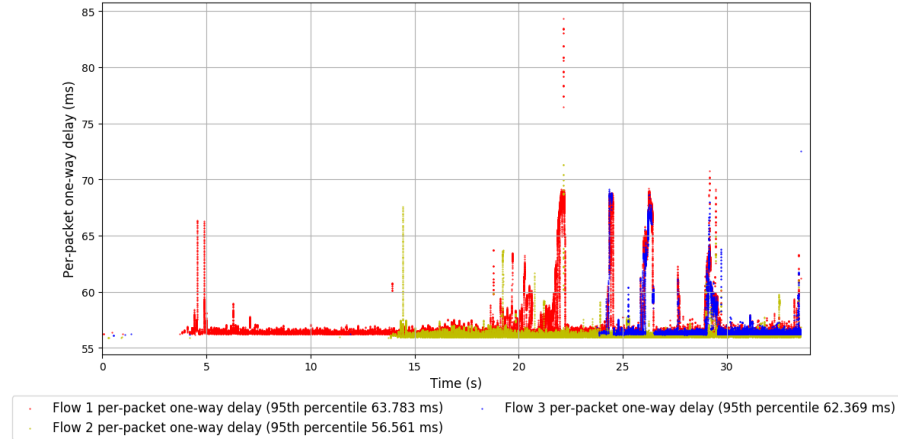
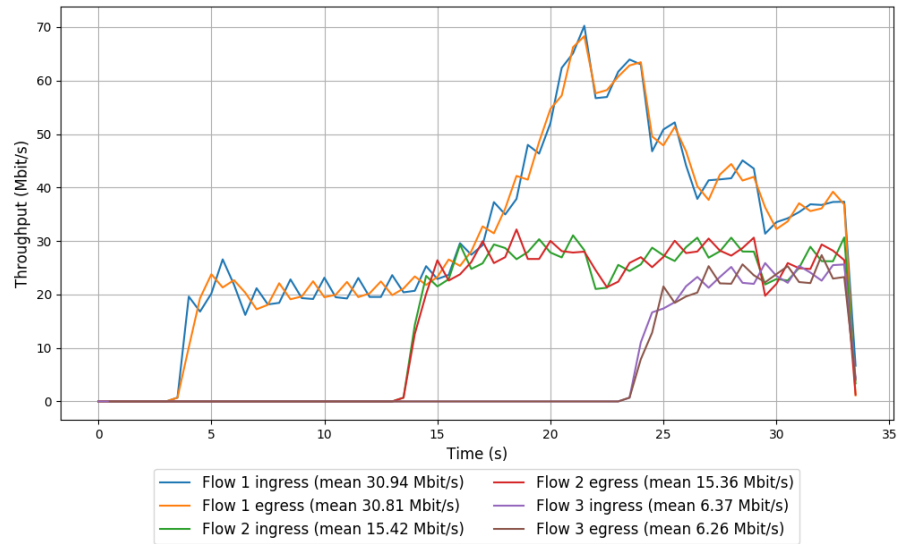
-- Flow 3:

Average throughput: 6.26 Mbit/s

95th percentile per-packet one-way delay: 62.369 ms

Loss rate: 2.05%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: Sat, 01 Jul 2017 14:01:04 +0000

End at: Sat, 01 Jul 2017 14:01:34 +0000

Local clock offset: 0.196 ms

Remote clock offset: -4.014 ms

Below is generated by plot.py at Sat, 01 Jul 2017 16:19:54 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 44.65 Mbit/s

95th percentile per-packet one-way delay: 55.545 ms

Loss rate: 1.40%

-- Flow 1:

Average throughput: 23.14 Mbit/s

95th percentile per-packet one-way delay: 55.256 ms

Loss rate: 0.83%

-- Flow 2:

Average throughput: 14.70 Mbit/s

95th percentile per-packet one-way delay: 55.231 ms

Loss rate: 1.43%

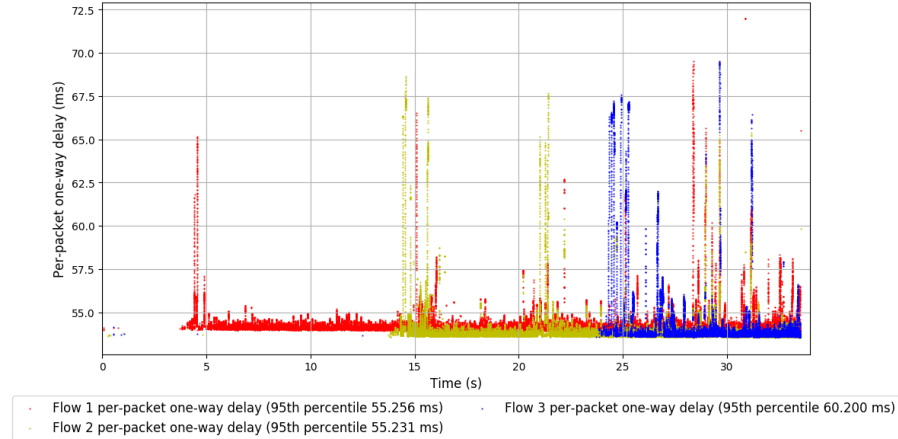
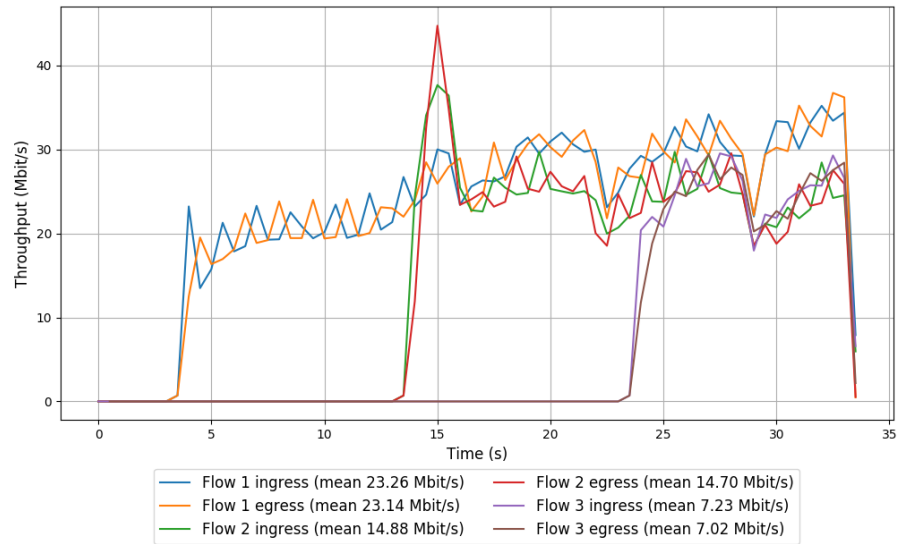
-- Flow 3:

Average throughput: 7.02 Mbit/s

95th percentile per-packet one-way delay: 60.200 ms

Loss rate: 3.18%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: Sat, 01 Jul 2017 14:19:42 +0000

End at: Sat, 01 Jul 2017 14:20:12 +0000

Local clock offset: 0.189 ms

Remote clock offset: -7.416 ms

Below is generated by plot.py at Sat, 01 Jul 2017 16:19:59 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 46.03 Mbit/s

95th percentile per-packet one-way delay: 51.277 ms

Loss rate: 1.31%

-- Flow 1:

Average throughput: 18.53 Mbit/s

95th percentile per-packet one-way delay: 51.173 ms

Loss rate: 0.55%

-- Flow 2:

Average throughput: 19.79 Mbit/s

95th percentile per-packet one-way delay: 51.266 ms

Loss rate: 1.64%

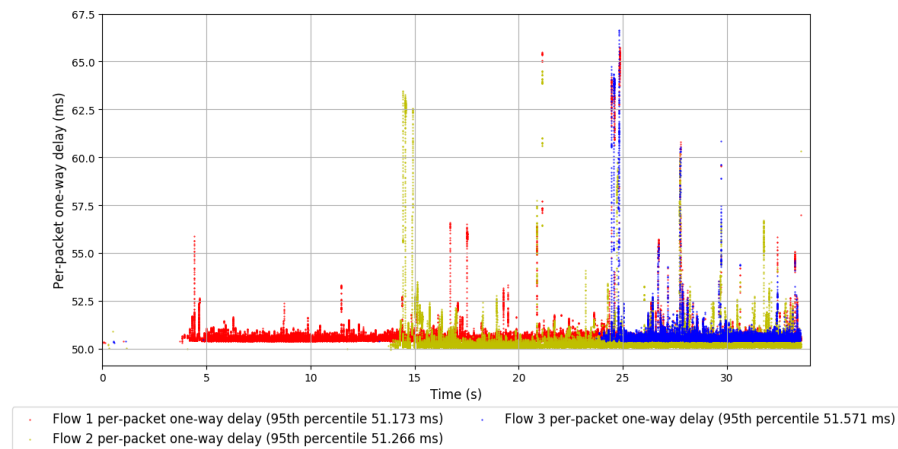
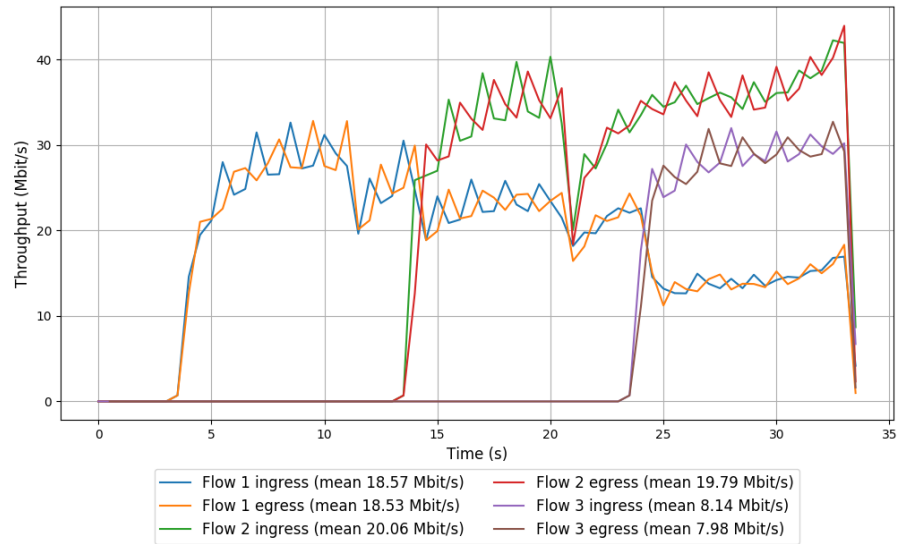
-- Flow 3:

Average throughput: 7.98 Mbit/s

95th percentile per-packet one-way delay: 51.571 ms

Loss rate: 2.28%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: Sat, 01 Jul 2017 14:38:12 +0000

End at: Sat, 01 Jul 2017 14:38:42 +0000

Local clock offset: 0.127 ms

Remote clock offset: -6.199 ms

Below is generated by plot.py at Sat, 01 Jul 2017 16:20:03 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 52.23 Mbit/s

95th percentile per-packet one-way delay: 59.792 ms

Loss rate: 1.27%

-- Flow 1:

Average throughput: 19.91 Mbit/s

95th percentile per-packet one-way delay: 59.414 ms

Loss rate: 0.44%

-- Flow 2:

Average throughput: 20.40 Mbit/s

95th percentile per-packet one-way delay: 60.477 ms

Loss rate: 1.72%

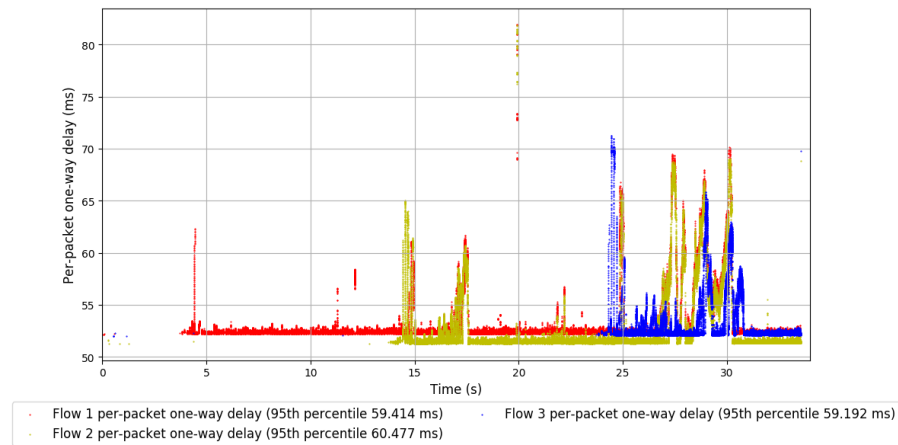
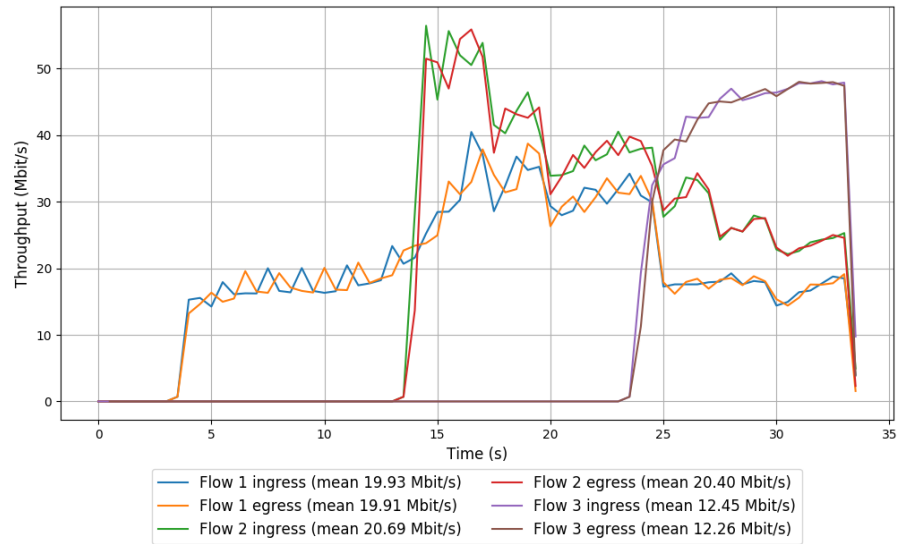
-- Flow 3:

Average throughput: 12.26 Mbit/s

95th percentile per-packet one-way delay: 59.192 ms

Loss rate: 1.85%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: Sat, 01 Jul 2017 14:56:42 +0000

End at: Sat, 01 Jul 2017 14:57:12 +0000

Local clock offset: 0.115 ms

Remote clock offset: -5.134 ms

Below is generated by plot.py at Sat, 01 Jul 2017 16:20:09 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 56.00 Mbit/s

95th percentile per-packet one-way delay: 54.511 ms

Loss rate: 1.31%

-- Flow 1:

Average throughput: 34.34 Mbit/s

95th percentile per-packet one-way delay: 53.268 ms

Loss rate: 0.98%

-- Flow 2:

Average throughput: 13.83 Mbit/s

95th percentile per-packet one-way delay: 57.859 ms

Loss rate: 1.33%

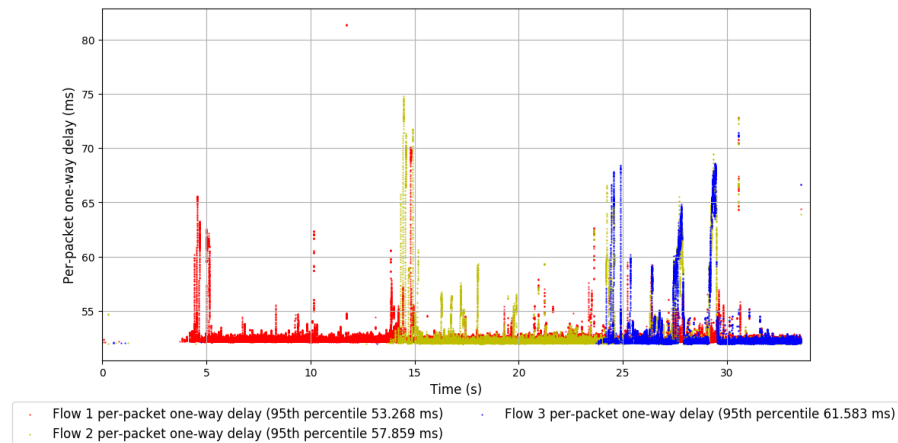
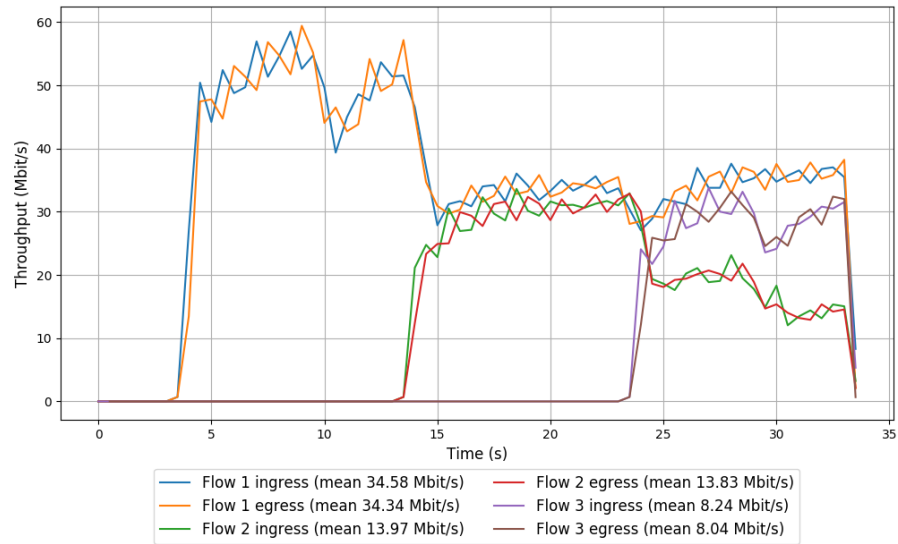
-- Flow 3:

Average throughput: 8.04 Mbit/s

95th percentile per-packet one-way delay: 61.583 ms

Loss rate: 2.66%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: Sat, 01 Jul 2017 15:15:12 +0000

End at: Sat, 01 Jul 2017 15:15:42 +0000

Local clock offset: 0.048 ms

Remote clock offset: -7.731 ms

Below is generated by plot.py at Sat, 01 Jul 2017 16:20:10 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 38.90 Mbit/s

95th percentile per-packet one-way delay: 57.598 ms

Loss rate: 1.18%

-- Flow 1:

Average throughput: 14.50 Mbit/s

95th percentile per-packet one-way delay: 56.415 ms

Loss rate: 0.52%

-- Flow 2:

Average throughput: 17.26 Mbit/s

95th percentile per-packet one-way delay: 59.512 ms

Loss rate: 1.26%

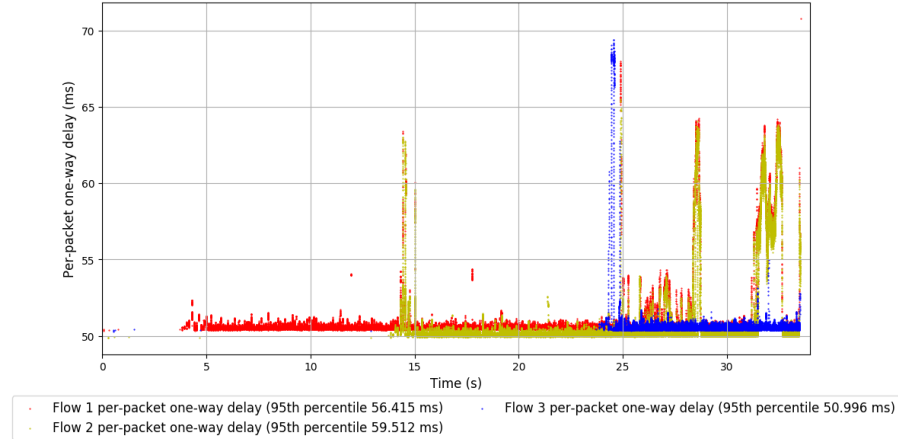
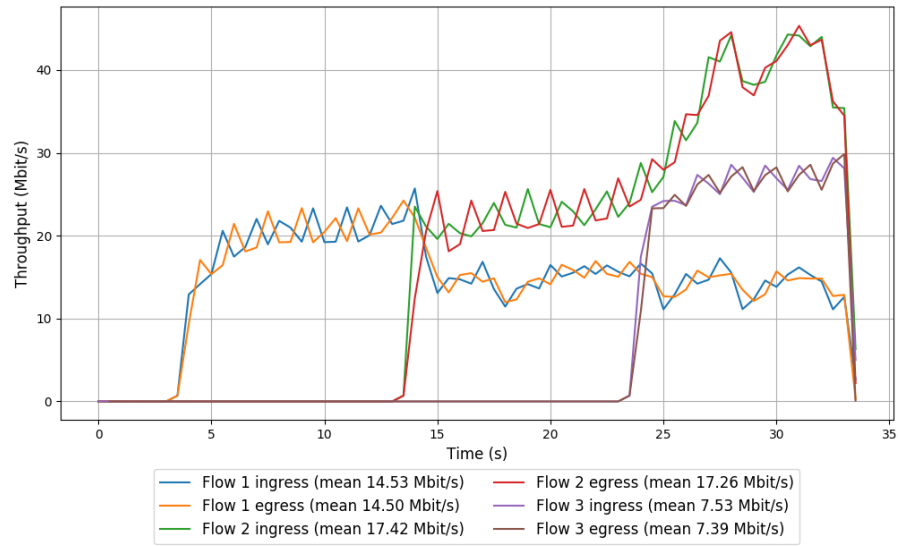
-- Flow 3:

Average throughput: 7.39 Mbit/s

95th percentile per-packet one-way delay: 50.996 ms

Loss rate: 2.26%

Run 10: Report of TCP Cubic — Data Link



Run 1: Statistics of KohoCC

Start at: Sat, 01 Jul 2017 12:23:01 +0000

End at: Sat, 01 Jul 2017 12:23:31 +0000

Local clock offset: 0.473 ms

Remote clock offset: -9.716 ms

Below is generated by plot.py at Sat, 01 Jul 2017 16:20:12 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 17.87 Mbit/s

95th percentile per-packet one-way delay: 48.494 ms

Loss rate: 0.76%

-- Flow 1:

Average throughput: 9.02 Mbit/s

95th percentile per-packet one-way delay: 48.652 ms

Loss rate: 0.64%

-- Flow 2:

Average throughput: 6.00 Mbit/s

95th percentile per-packet one-way delay: 48.341 ms

Loss rate: 0.72%

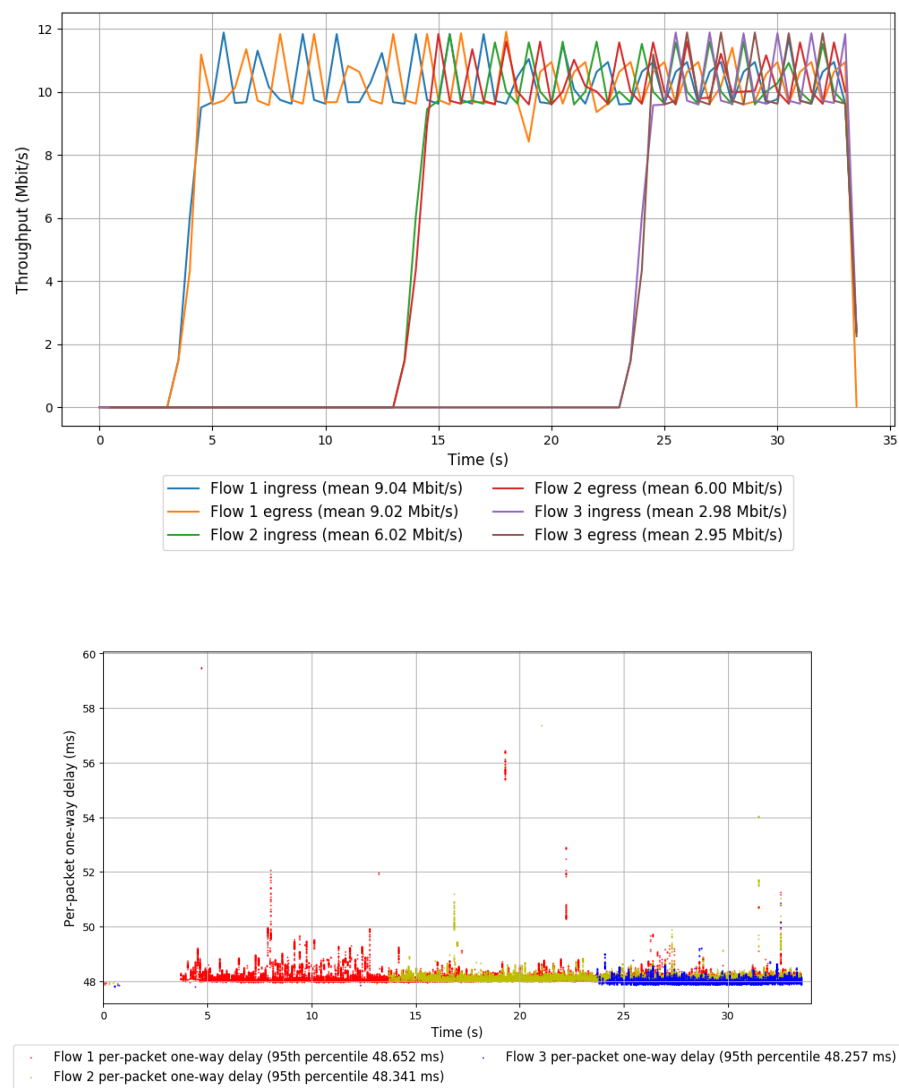
-- Flow 3:

Average throughput: 2.95 Mbit/s

95th percentile per-packet one-way delay: 48.257 ms

Loss rate: 1.22%

Run 1: Report of KohoCC — Data Link



Run 2: Statistics of KohoCC

Start at: Sat, 01 Jul 2017 12:41:44 +0000

End at: Sat, 01 Jul 2017 12:42:14 +0000

Local clock offset: 0.446 ms

Remote clock offset: -7.742 ms

Below is generated by plot.py at Sat, 01 Jul 2017 16:20:14 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 17.86 Mbit/s

95th percentile per-packet one-way delay: 50.276 ms

Loss rate: 0.64%

-- Flow 1:

Average throughput: 9.05 Mbit/s

95th percentile per-packet one-way delay: 50.314 ms

Loss rate: 0.40%

-- Flow 2:

Average throughput: 6.00 Mbit/s

95th percentile per-packet one-way delay: 49.942 ms

Loss rate: 0.60%

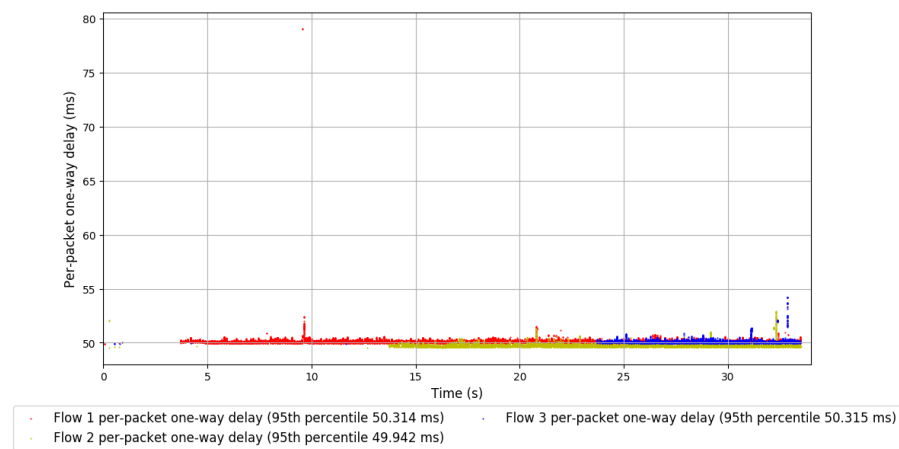
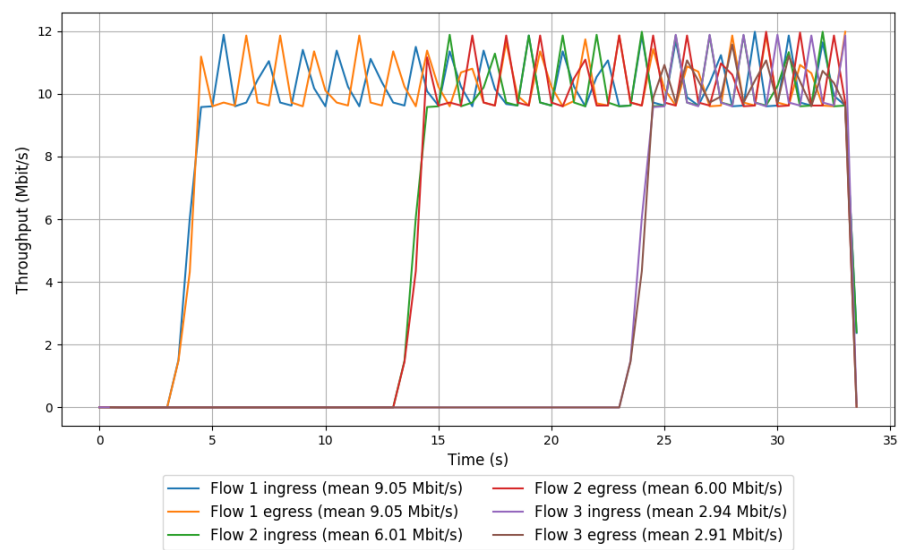
-- Flow 3:

Average throughput: 2.91 Mbit/s

95th percentile per-packet one-way delay: 50.315 ms

Loss rate: 1.50%

Run 2: Report of KohoCC — Data Link



Run 3: Statistics of KohoCC

Start at: Sat, 01 Jul 2017 13:00:28 +0000

End at: Sat, 01 Jul 2017 13:00:58 +0000

Local clock offset: 0.351 ms

Remote clock offset: -5.069 ms

Below is generated by plot.py at Sat, 01 Jul 2017 16:20:16 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 17.92 Mbit/s

95th percentile per-packet one-way delay: 53.132 ms

Loss rate: 0.77%

-- Flow 1:

Average throughput: 9.09 Mbit/s

95th percentile per-packet one-way delay: 53.381 ms

Loss rate: 0.73%

-- Flow 2:

Average throughput: 5.96 Mbit/s

95th percentile per-packet one-way delay: 52.612 ms

Loss rate: 0.60%

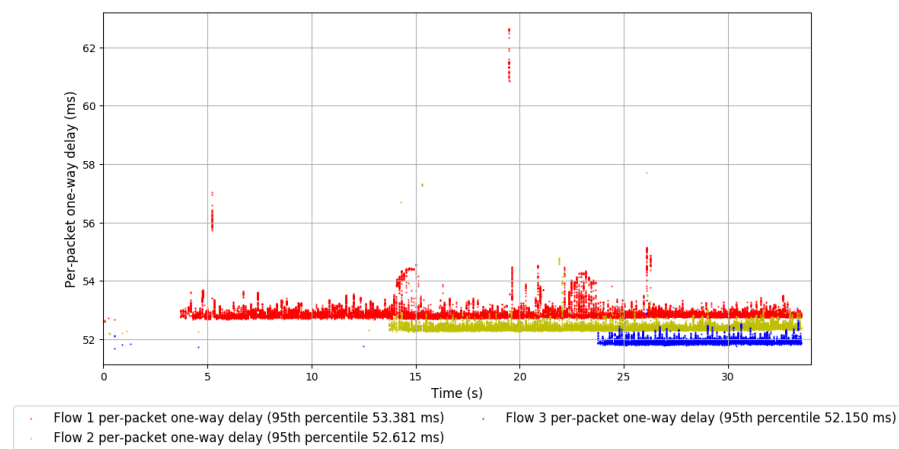
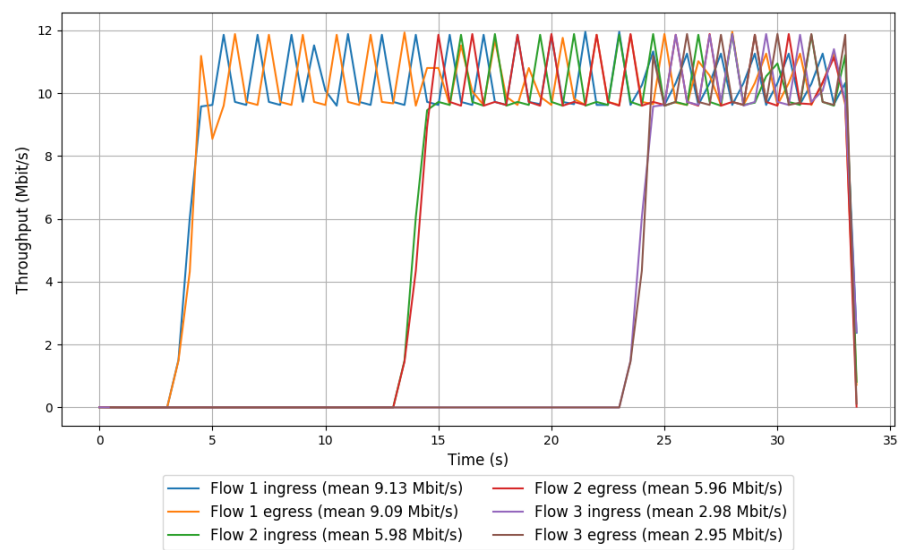
-- Flow 3:

Average throughput: 2.95 Mbit/s

95th percentile per-packet one-way delay: 52.150 ms

Loss rate: 1.22%

Run 3: Report of KohoCC — Data Link



Run 4: Statistics of KohoCC

Start at: Sat, 01 Jul 2017 13:19:05 +0000

End at: Sat, 01 Jul 2017 13:19:35 +0000

Local clock offset: 0.194 ms

Remote clock offset: -3.767 ms

Below is generated by plot.py at Sat, 01 Jul 2017 16:20:18 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 17.82 Mbit/s

95th percentile per-packet one-way delay: 54.968 ms

Loss rate: 0.61%

-- Flow 1:

Average throughput: 9.01 Mbit/s

95th percentile per-packet one-way delay: 55.034 ms

Loss rate: 0.40%

-- Flow 2:

Average throughput: 6.03 Mbit/s

95th percentile per-packet one-way delay: 54.827 ms

Loss rate: 0.59%

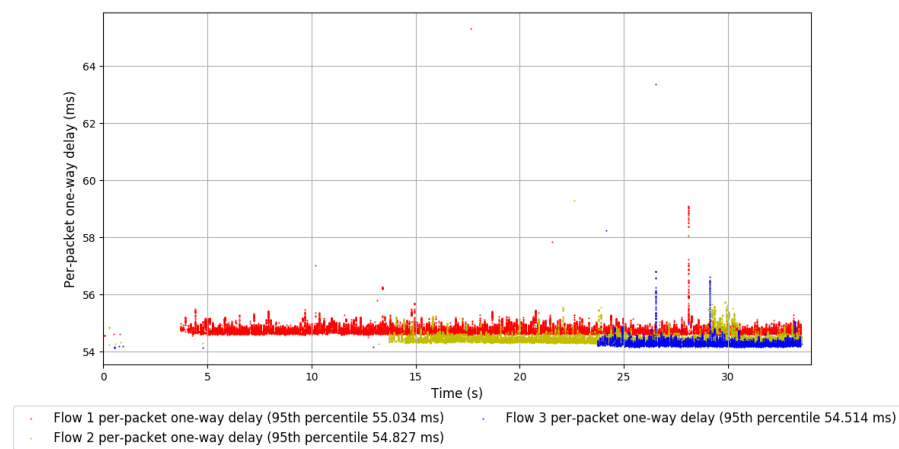
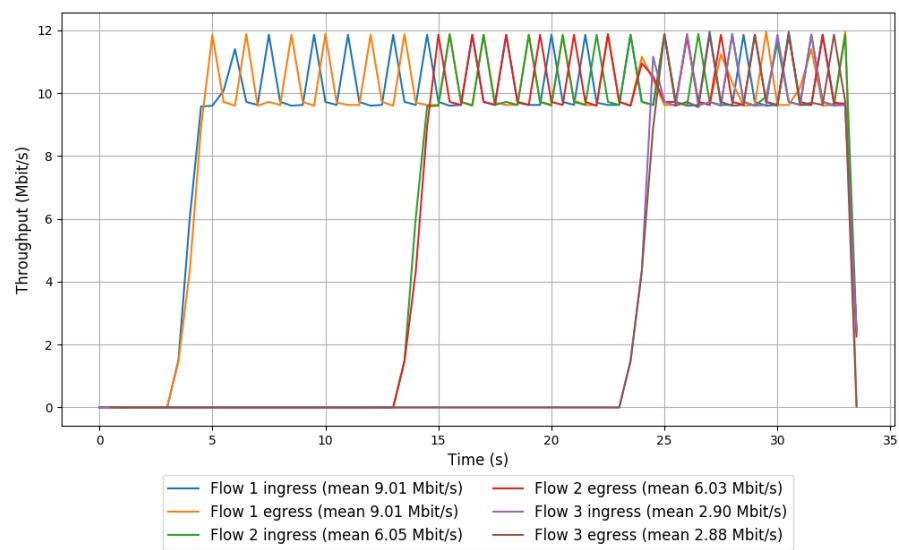
-- Flow 3:

Average throughput: 2.88 Mbit/s

95th percentile per-packet one-way delay: 54.514 ms

Loss rate: 1.29%

Run 4: Report of KohoCC — Data Link



Run 5: Statistics of KohoCC

Start at: Sat, 01 Jul 2017 13:37:45 +0000

End at: Sat, 01 Jul 2017 13:38:15 +0000

Local clock offset: 0.178 ms

Remote clock offset: -1.978 ms

Below is generated by plot.py at Sat, 01 Jul 2017 16:20:20 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 17.92 Mbit/s

95th percentile per-packet one-way delay: 56.704 ms

Loss rate: 0.66%

-- Flow 1:

Average throughput: 9.10 Mbit/s

95th percentile per-packet one-way delay: 57.119 ms

Loss rate: 0.51%

-- Flow 2:

Average throughput: 6.00 Mbit/s

95th percentile per-packet one-way delay: 56.268 ms

Loss rate: 0.60%

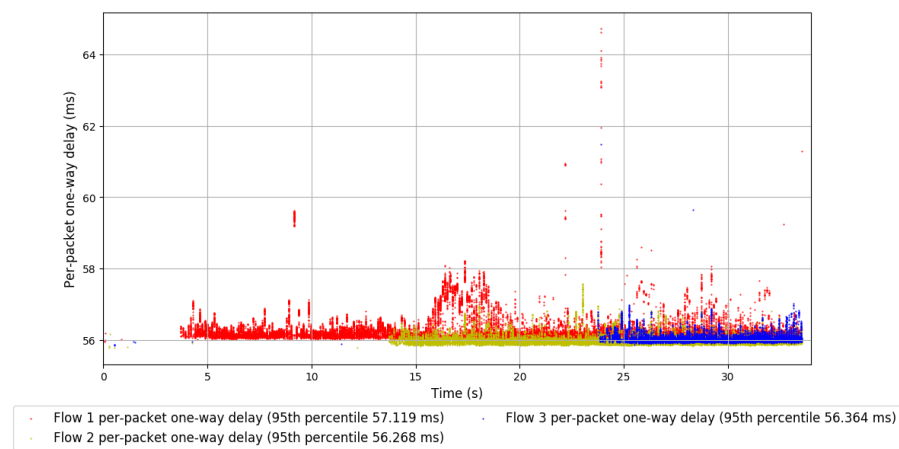
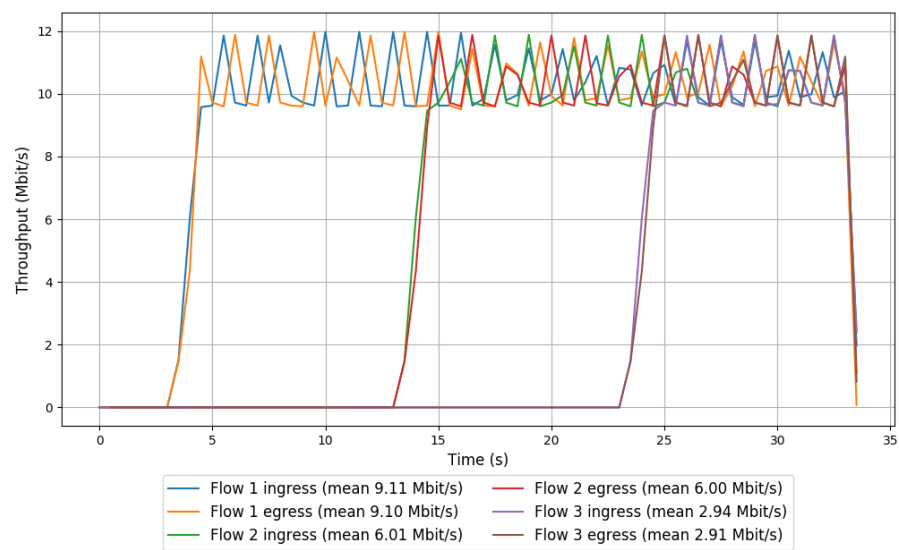
-- Flow 3:

Average throughput: 2.91 Mbit/s

95th percentile per-packet one-way delay: 56.364 ms

Loss rate: 1.23%

Run 5: Report of KohoCC — Data Link



Run 6: Statistics of KohoCC

Start at: Sat, 01 Jul 2017 13:56:10 +0000

End at: Sat, 01 Jul 2017 13:56:40 +0000

Local clock offset: 0.178 ms

Remote clock offset: -2.733 ms

Below is generated by plot.py at Sat, 01 Jul 2017 16:20:22 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 18.01 Mbit/s

95th percentile per-packet one-way delay: 55.870 ms

Loss rate: 0.68%

-- Flow 1:

Average throughput: 9.16 Mbit/s

95th percentile per-packet one-way delay: 55.724 ms

Loss rate: 0.57%

-- Flow 2:

Average throughput: 6.03 Mbit/s

95th percentile per-packet one-way delay: 55.941 ms

Loss rate: 0.59%

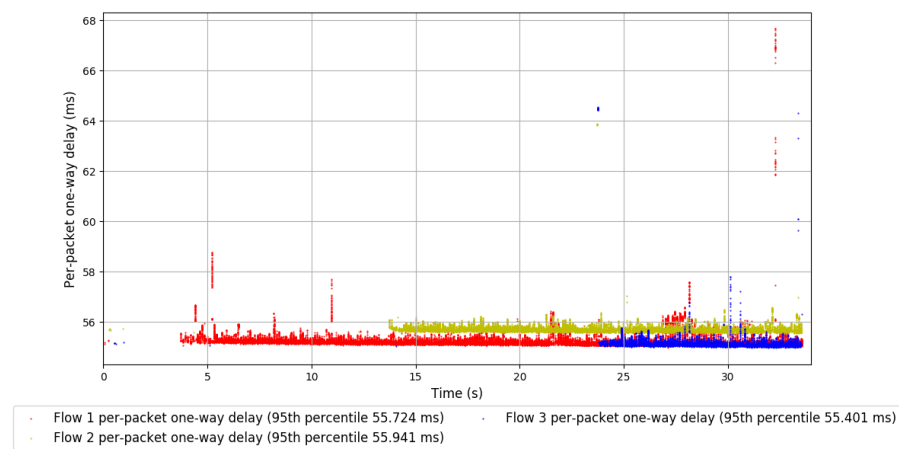
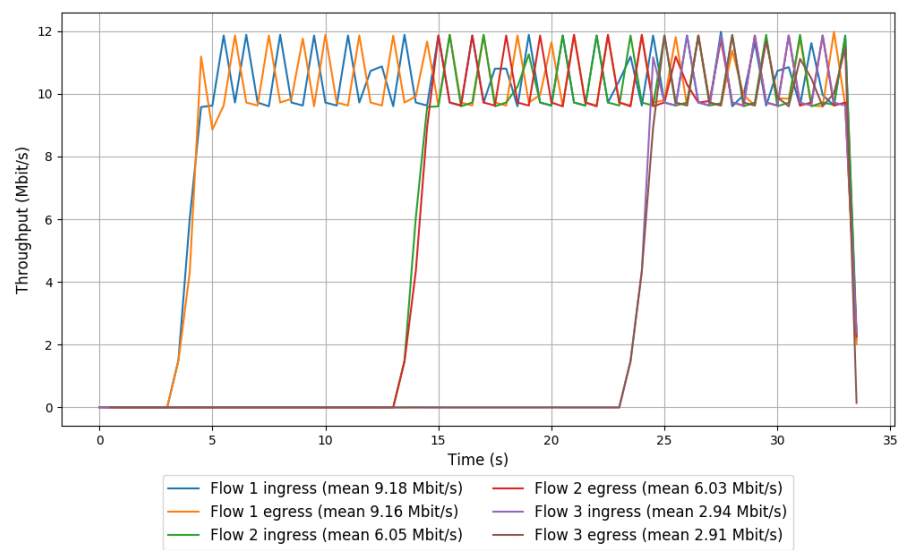
-- Flow 3:

Average throughput: 2.91 Mbit/s

95th percentile per-packet one-way delay: 55.401 ms

Loss rate: 1.22%

Run 6: Report of KohoCC — Data Link



Run 7: Statistics of KohoCC

Start at: Sat, 01 Jul 2017 14:14:53 +0000

End at: Sat, 01 Jul 2017 14:15:23 +0000

Local clock offset: 0.156 ms

Remote clock offset: -6.421 ms

Below is generated by plot.py at Sat, 01 Jul 2017 16:20:24 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 18.02 Mbit/s

95th percentile per-packet one-way delay: 51.243 ms

Loss rate: 0.64%

-- Flow 1:

Average throughput: 9.12 Mbit/s

95th percentile per-packet one-way delay: 51.300 ms

Loss rate: 0.39%

-- Flow 2:

Average throughput: 6.05 Mbit/s

95th percentile per-packet one-way delay: 50.814 ms

Loss rate: 0.74%

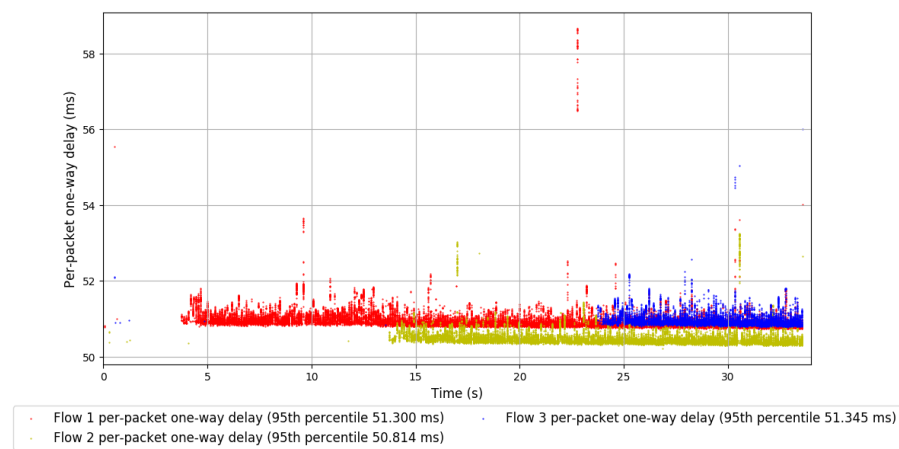
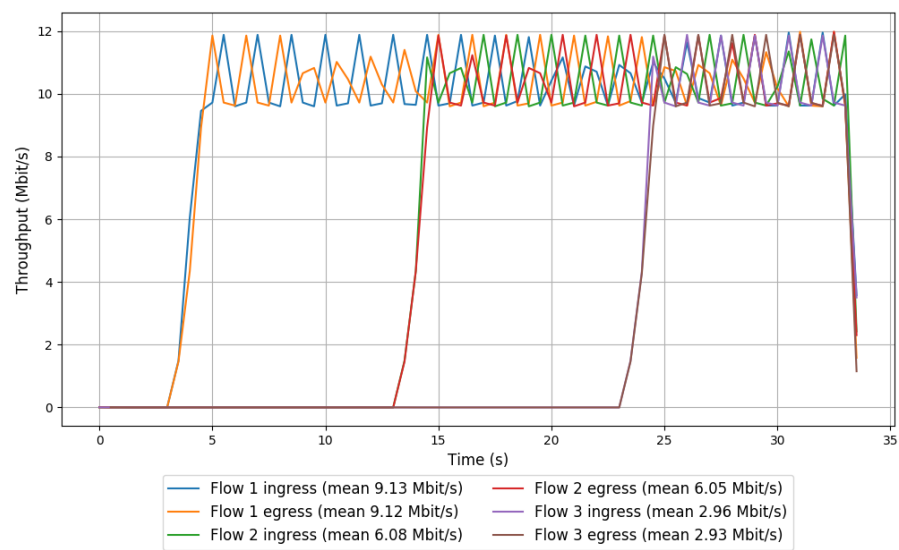
-- Flow 3:

Average throughput: 2.93 Mbit/s

95th percentile per-packet one-way delay: 51.345 ms

Loss rate: 1.21%

Run 7: Report of KohoCC — Data Link



Run 8: Statistics of KohoCC

Start at: Sat, 01 Jul 2017 14:33:25 +0000

End at: Sat, 01 Jul 2017 14:33:55 +0000

Local clock offset: 0.149 ms

Remote clock offset: -6.254 ms

Below is generated by plot.py at Sat, 01 Jul 2017 16:20:26 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 17.85 Mbit/s

95th percentile per-packet one-way delay: 52.347 ms

Loss rate: 0.68%

-- Flow 1:

Average throughput: 9.00 Mbit/s

95th percentile per-packet one-way delay: 52.392 ms

Loss rate: 0.40%

-- Flow 2:

Average throughput: 6.02 Mbit/s

95th percentile per-packet one-way delay: 51.957 ms

Loss rate: 0.83%

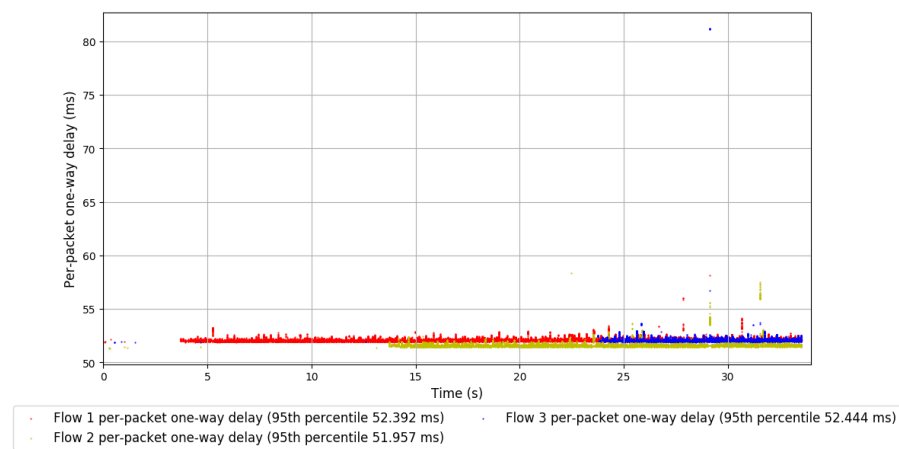
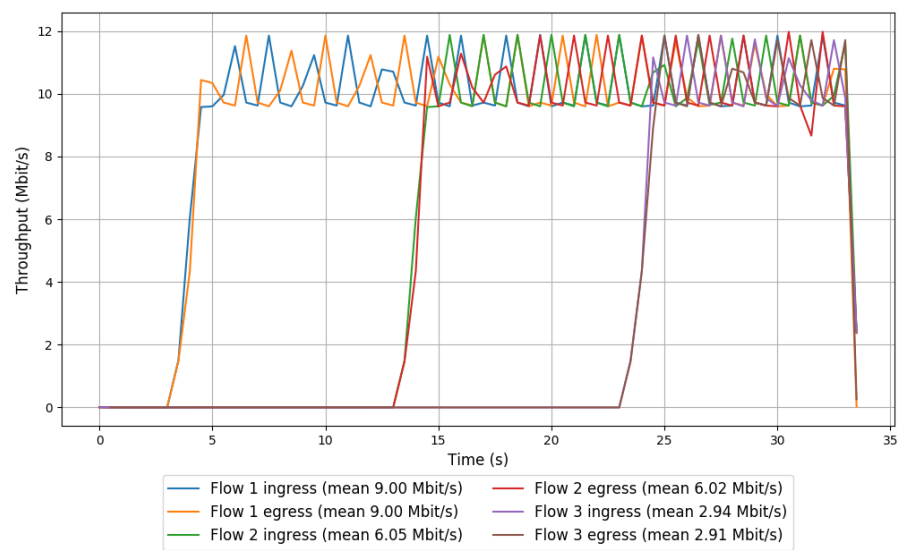
-- Flow 3:

Average throughput: 2.91 Mbit/s

95th percentile per-packet one-way delay: 52.444 ms

Loss rate: 1.23%

Run 8: Report of KohoCC — Data Link



Run 9: Statistics of KohoCC

Start at: Sat, 01 Jul 2017 14:51:55 +0000

End at: Sat, 01 Jul 2017 14:52:25 +0000

Local clock offset: 0.061 ms

Remote clock offset: -5.272 ms

Below is generated by plot.py at Sat, 01 Jul 2017 16:20:28 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 17.97 Mbit/s

95th percentile per-packet one-way delay: 53.136 ms

Loss rate: 0.60%

-- Flow 1:

Average throughput: 9.11 Mbit/s

95th percentile per-packet one-way delay: 53.062 ms

Loss rate: 0.39%

-- Flow 2:

Average throughput: 5.99 Mbit/s

95th percentile per-packet one-way delay: 53.231 ms

Loss rate: 0.60%

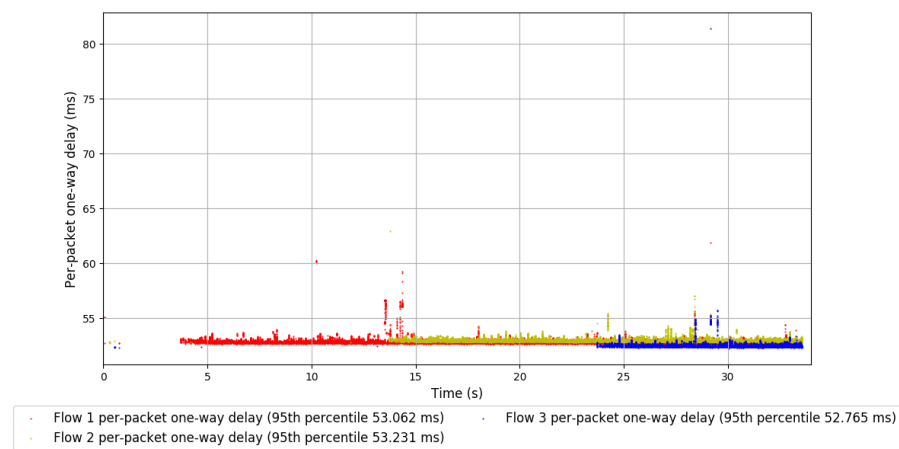
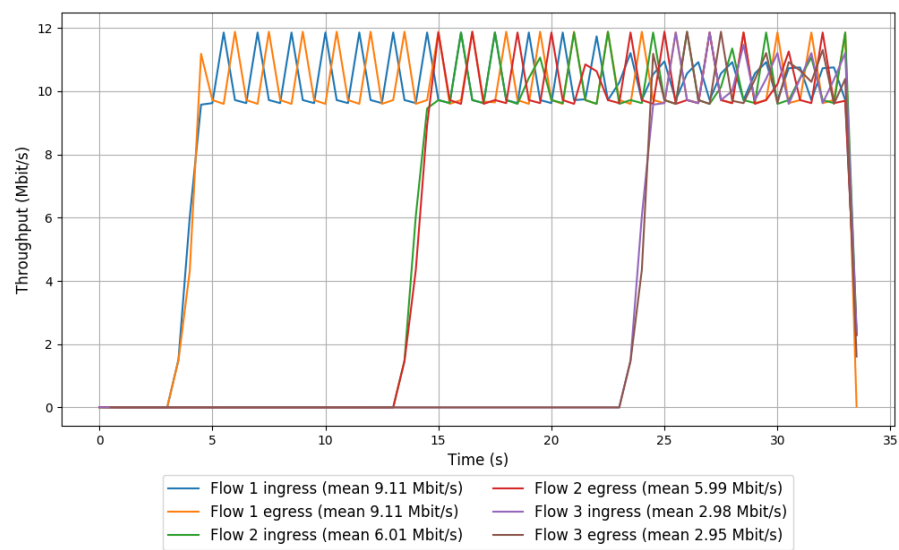
-- Flow 3:

Average throughput: 2.95 Mbit/s

95th percentile per-packet one-way delay: 52.765 ms

Loss rate: 1.23%

Run 9: Report of KohoCC — Data Link



Run 10: Statistics of KohoCC

Start at: Sat, 01 Jul 2017 15:10:16 +0000

End at: Sat, 01 Jul 2017 15:10:46 +0000

Local clock offset: 0.096 ms

Remote clock offset: -7.798 ms

Below is generated by plot.py at Sat, 01 Jul 2017 16:20:30 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 17.72 Mbit/s

95th percentile per-packet one-way delay: 51.347 ms

Loss rate: 0.62%

-- Flow 1:

Average throughput: 8.93 Mbit/s

95th percentile per-packet one-way delay: 51.383 ms

Loss rate: 0.40%

-- Flow 2:

Average throughput: 5.97 Mbit/s

95th percentile per-packet one-way delay: 51.351 ms

Loss rate: 0.63%

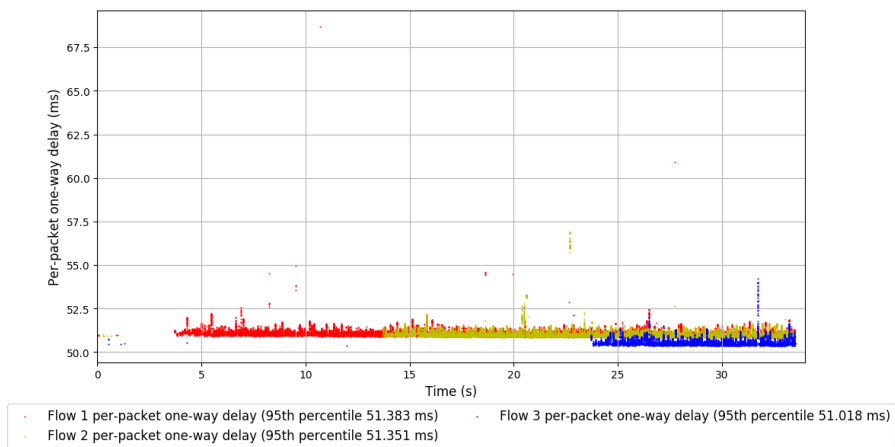
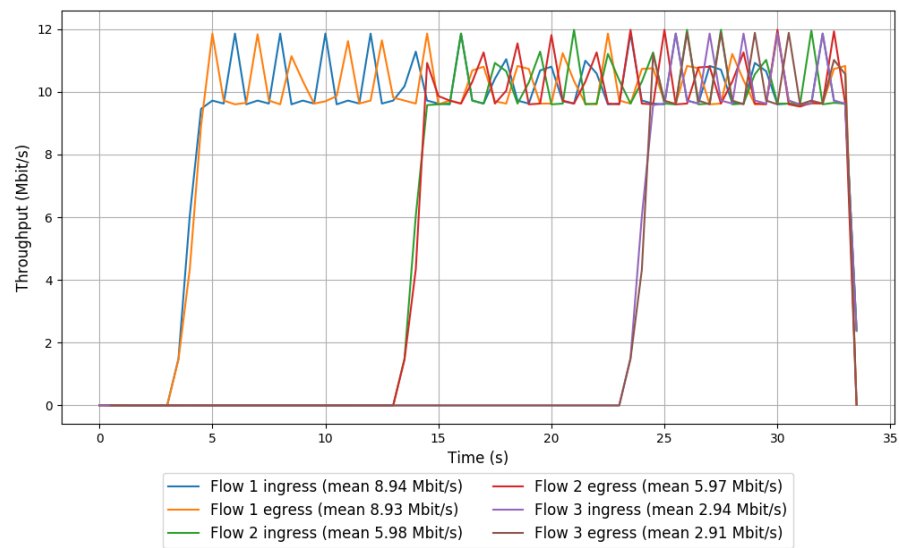
-- Flow 3:

Average throughput: 2.91 Mbit/s

95th percentile per-packet one-way delay: 51.018 ms

Loss rate: 1.23%

Run 10: Report of KohoCC — Data Link



Run 1: Statistics of LEDBAT

Start at: Sat, 01 Jul 2017 12:24:12 +0000

End at: Sat, 01 Jul 2017 12:24:42 +0000

Local clock offset: 0.496 ms

Remote clock offset: -9.408 ms

Below is generated by plot.py at Sat, 01 Jul 2017 16:20:32 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 20.44 Mbit/s

95th percentile per-packet one-way delay: 48.594 ms

Loss rate: 1.03%

-- Flow 1:

Average throughput: 12.13 Mbit/s

95th percentile per-packet one-way delay: 48.529 ms

Loss rate: 0.70%

-- Flow 2:

Average throughput: 6.89 Mbit/s

95th percentile per-packet one-way delay: 48.587 ms

Loss rate: 1.40%

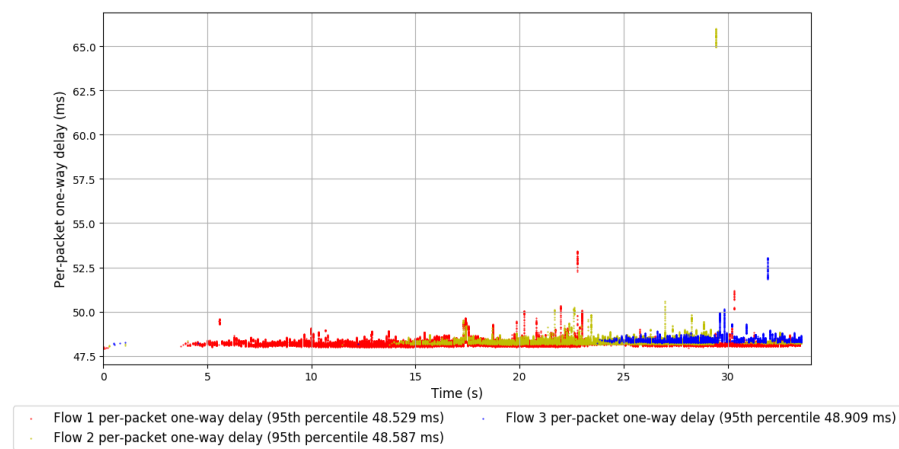
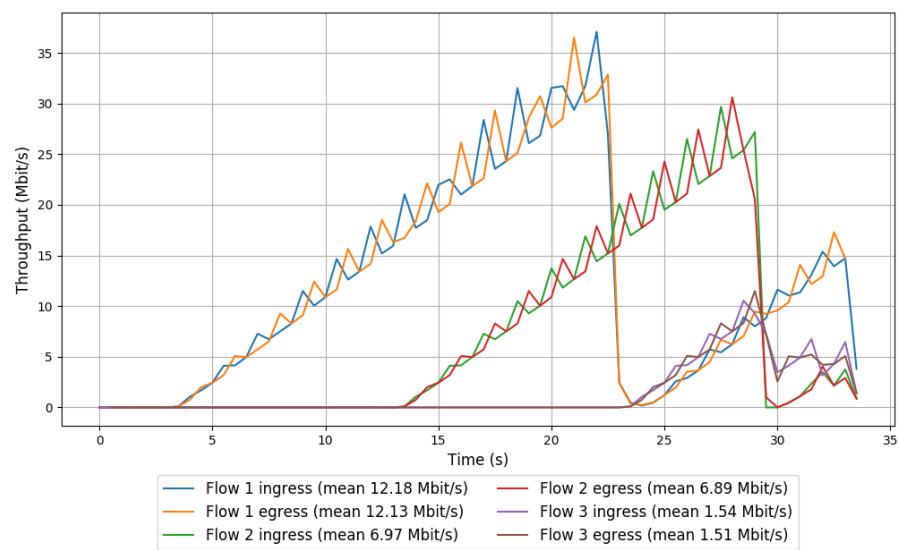
-- Flow 3:

Average throughput: 1.51 Mbit/s

95th percentile per-packet one-way delay: 48.909 ms

Loss rate: 1.94%

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: Sat, 01 Jul 2017 12:42:55 +0000

End at: Sat, 01 Jul 2017 12:43:25 +0000

Local clock offset: 0.375 ms

Remote clock offset: -7.894 ms

Below is generated by plot.py at Sat, 01 Jul 2017 16:20:33 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 14.67 Mbit/s

95th percentile per-packet one-way delay: 50.435 ms

Loss rate: 1.58%

-- Flow 1:

Average throughput: 7.12 Mbit/s

95th percentile per-packet one-way delay: 50.542 ms

Loss rate: 1.16%

-- Flow 2:

Average throughput: 5.05 Mbit/s

95th percentile per-packet one-way delay: 49.866 ms

Loss rate: 1.78%

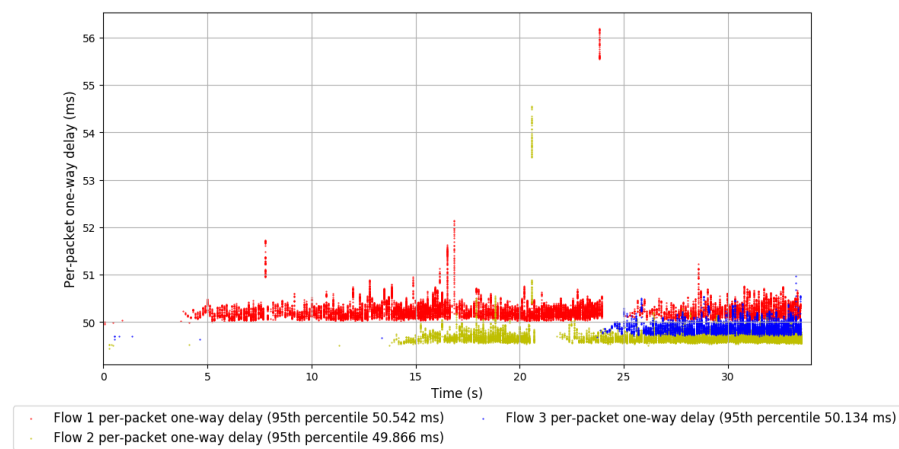
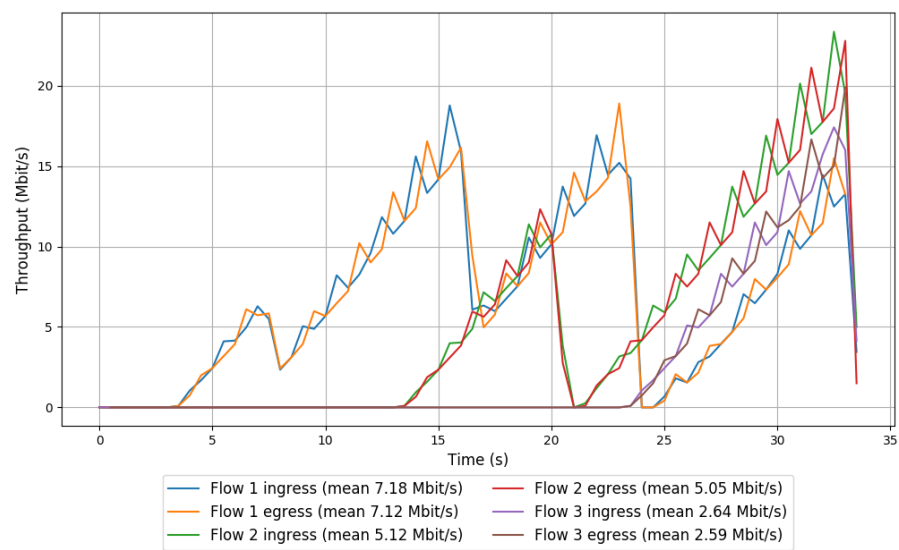
-- Flow 3:

Average throughput: 2.59 Mbit/s

95th percentile per-packet one-way delay: 50.134 ms

Loss rate: 2.36%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: Sat, 01 Jul 2017 13:01:39 +0000

End at: Sat, 01 Jul 2017 13:02:09 +0000

Local clock offset: 0.303 ms

Remote clock offset: -5.128 ms

Below is generated by plot.py at Sat, 01 Jul 2017 16:20:35 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 21.36 Mbit/s

95th percentile per-packet one-way delay: 53.310 ms

Loss rate: 0.67%

-- Flow 1:

Average throughput: 13.65 Mbit/s

95th percentile per-packet one-way delay: 53.231 ms

Loss rate: 0.39%

-- Flow 2:

Average throughput: 5.27 Mbit/s

95th percentile per-packet one-way delay: 53.411 ms

Loss rate: 0.84%

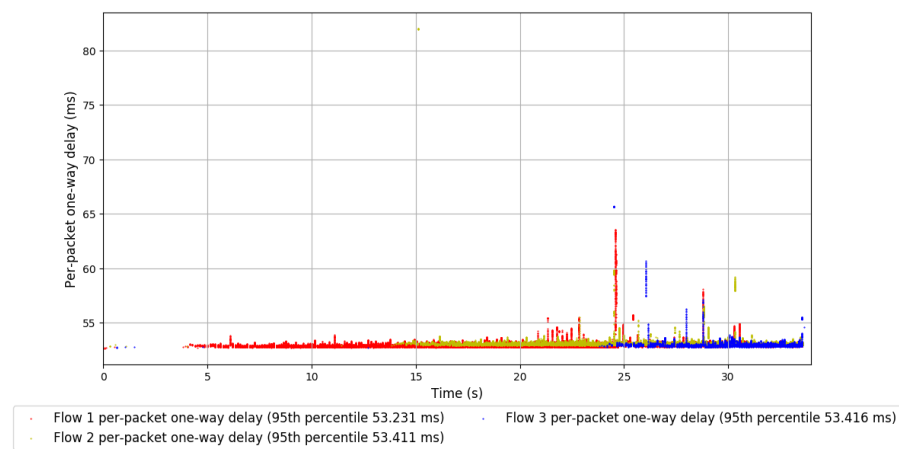
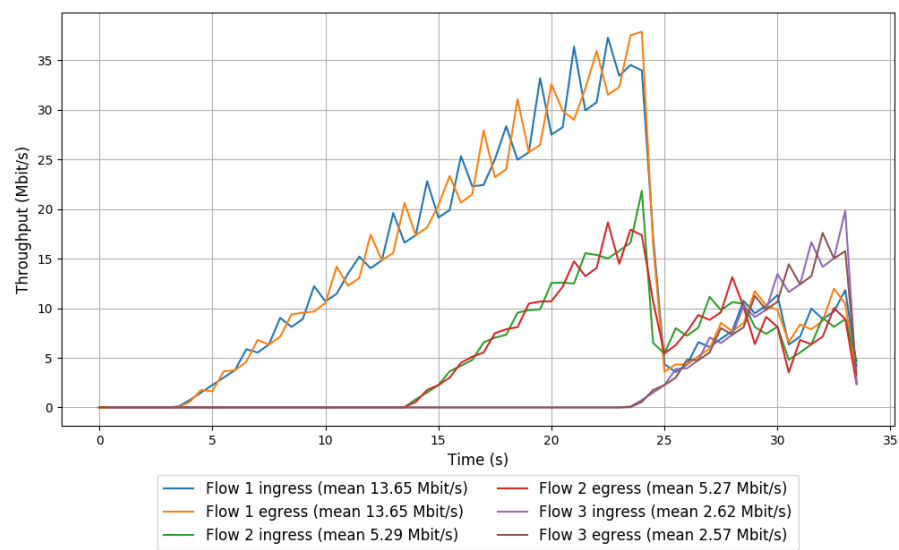
-- Flow 3:

Average throughput: 2.57 Mbit/s

95th percentile per-packet one-way delay: 53.416 ms

Loss rate: 1.83%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: Sat, 01 Jul 2017 13:20:17 +0000

End at: Sat, 01 Jul 2017 13:20:47 +0000

Local clock offset: 0.225 ms

Remote clock offset: -3.418 ms

Below is generated by plot.py at Sat, 01 Jul 2017 16:20:37 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 18.26 Mbit/s

95th percentile per-packet one-way delay: 54.348 ms

Loss rate: 1.30%

-- Flow 1:

Average throughput: 6.65 Mbit/s

95th percentile per-packet one-way delay: 54.484 ms

Loss rate: 0.89%

-- Flow 2:

Average throughput: 9.13 Mbit/s

95th percentile per-packet one-way delay: 54.095 ms

Loss rate: 1.30%

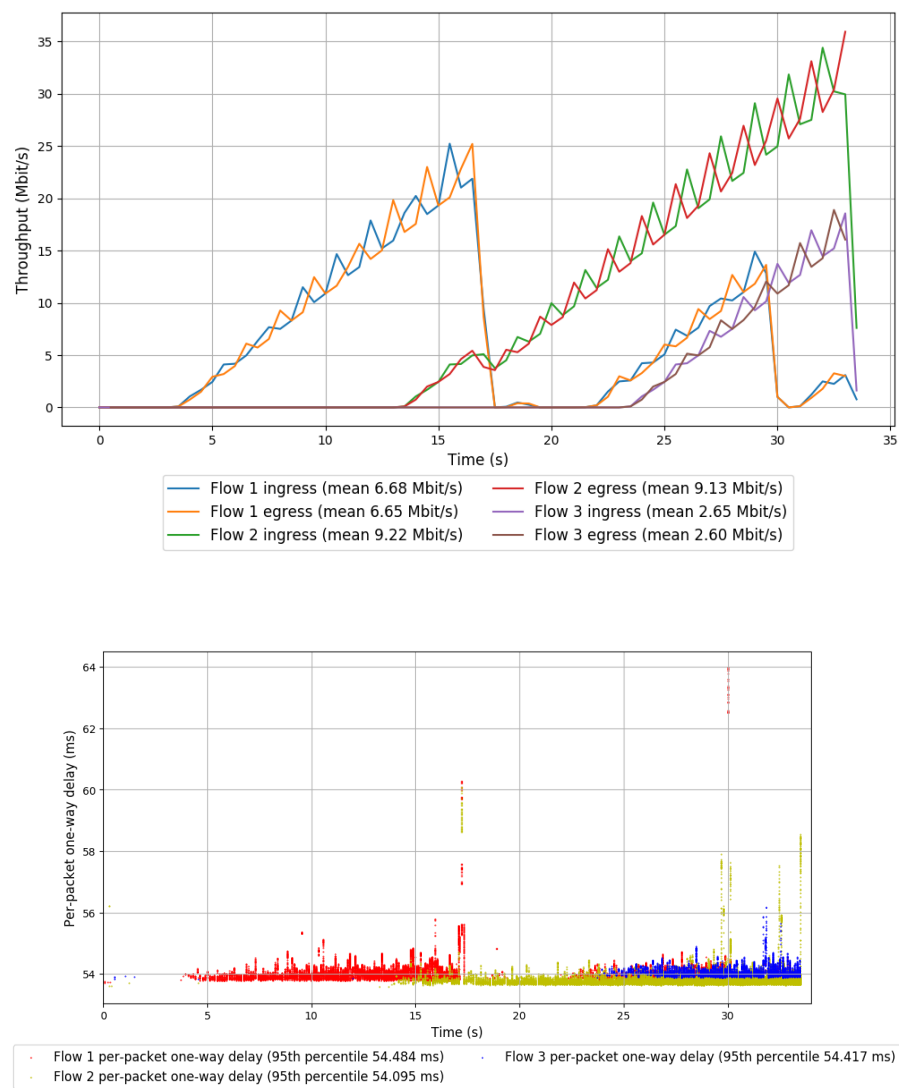
-- Flow 3:

Average throughput: 2.60 Mbit/s

95th percentile per-packet one-way delay: 54.417 ms

Loss rate: 2.36%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: Sat, 01 Jul 2017 13:38:56 +0000

End at: Sat, 01 Jul 2017 13:39:26 +0000

Local clock offset: 0.181 ms

Remote clock offset: -1.883 ms

Below is generated by plot.py at Sat, 01 Jul 2017 16:20:41 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 18.35 Mbit/s

95th percentile per-packet one-way delay: 56.728 ms

Loss rate: 1.05%

-- Flow 1:

Average throughput: 10.99 Mbit/s

95th percentile per-packet one-way delay: 56.834 ms

Loss rate: 0.69%

-- Flow 2:

Average throughput: 4.86 Mbit/s

95th percentile per-packet one-way delay: 56.384 ms

Loss rate: 1.17%

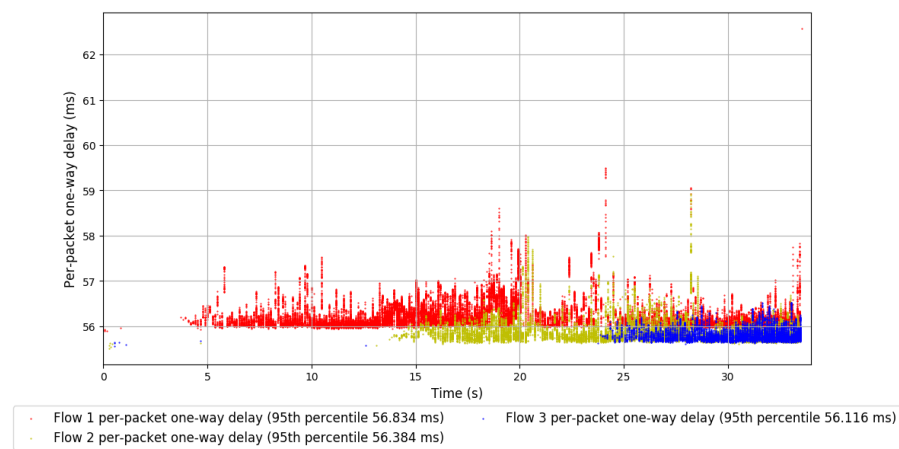
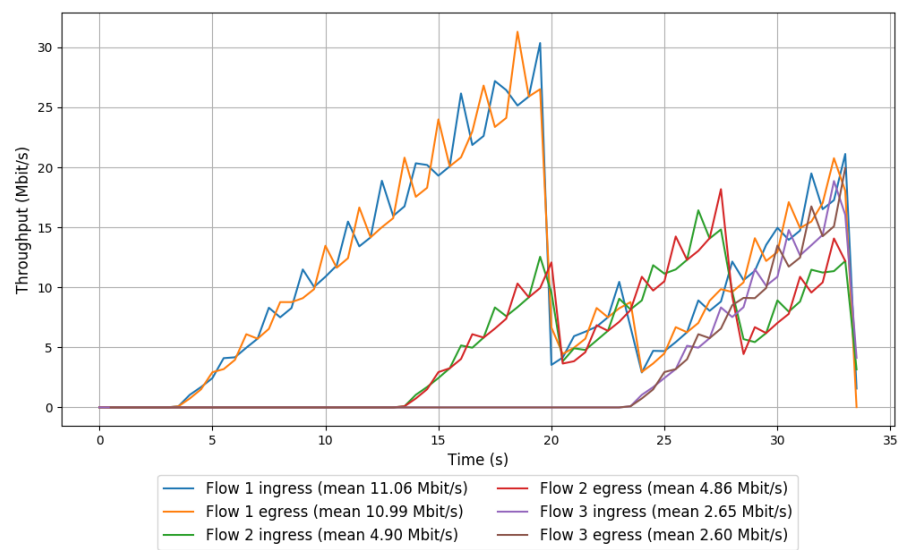
-- Flow 3:

Average throughput: 2.60 Mbit/s

95th percentile per-packet one-way delay: 56.116 ms

Loss rate: 2.35%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: Sat, 01 Jul 2017 13:57:21 +0000

End at: Sat, 01 Jul 2017 13:57:51 +0000

Local clock offset: 0.222 ms

Remote clock offset: -3.147 ms

Below is generated by plot.py at Sat, 01 Jul 2017 16:20:41 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 14.14 Mbit/s

95th percentile per-packet one-way delay: 55.378 ms

Loss rate: 1.61%

-- Flow 1:

Average throughput: 5.62 Mbit/s

95th percentile per-packet one-way delay: 55.481 ms

Loss rate: 1.69%

-- Flow 2:

Average throughput: 6.11 Mbit/s

95th percentile per-packet one-way delay: 55.381 ms

Loss rate: 1.22%

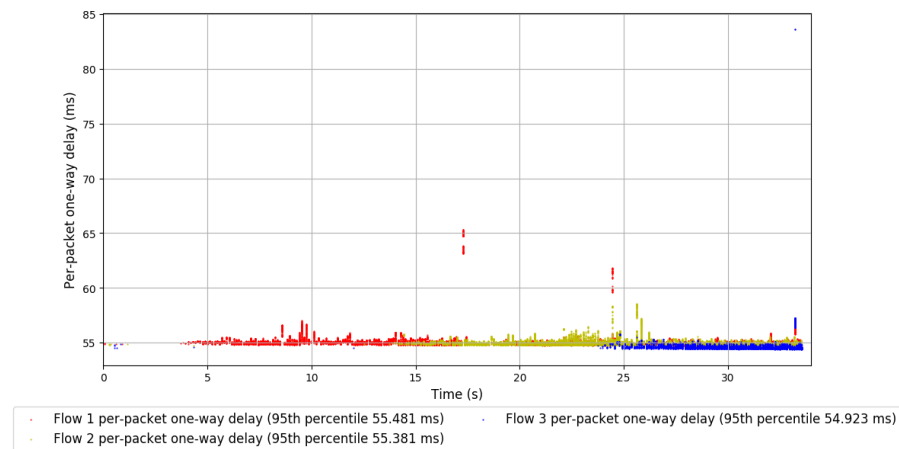
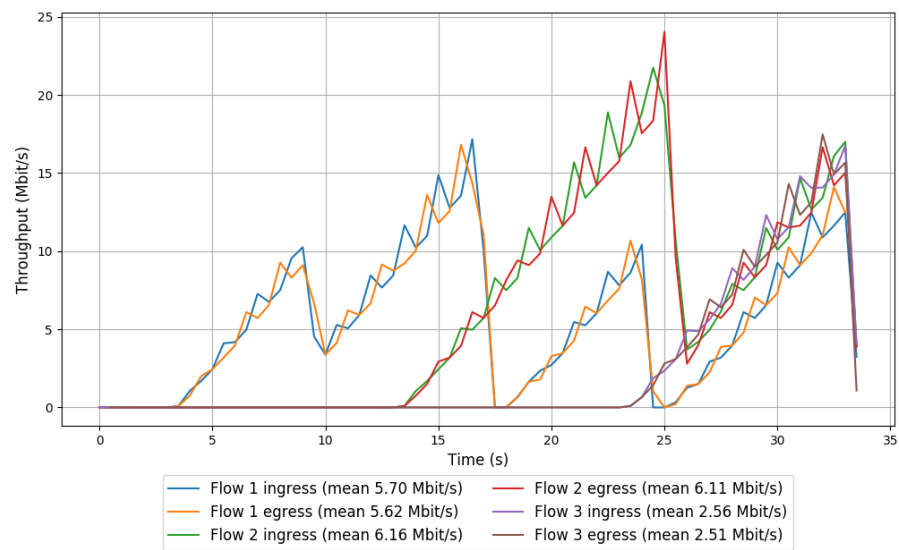
-- Flow 3:

Average throughput: 2.51 Mbit/s

95th percentile per-packet one-way delay: 54.923 ms

Loss rate: 2.39%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: Sat, 01 Jul 2017 14:16:04 +0000

End at: Sat, 01 Jul 2017 14:16:34 +0000

Local clock offset: 0.093 ms

Remote clock offset: -7.256 ms

Below is generated by plot.py at Sat, 01 Jul 2017 16:20:45 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 22.12 Mbit/s

95th percentile per-packet one-way delay: 52.863 ms

Loss rate: 1.34%

-- Flow 1:

Average throughput: 10.82 Mbit/s

95th percentile per-packet one-way delay: 52.346 ms

Loss rate: 1.29%

-- Flow 2:

Average throughput: 8.91 Mbit/s

95th percentile per-packet one-way delay: 53.570 ms

Loss rate: 1.35%

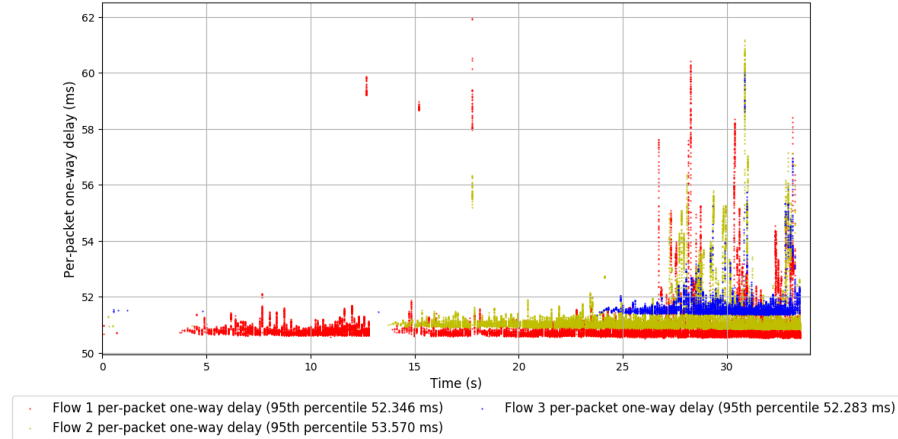
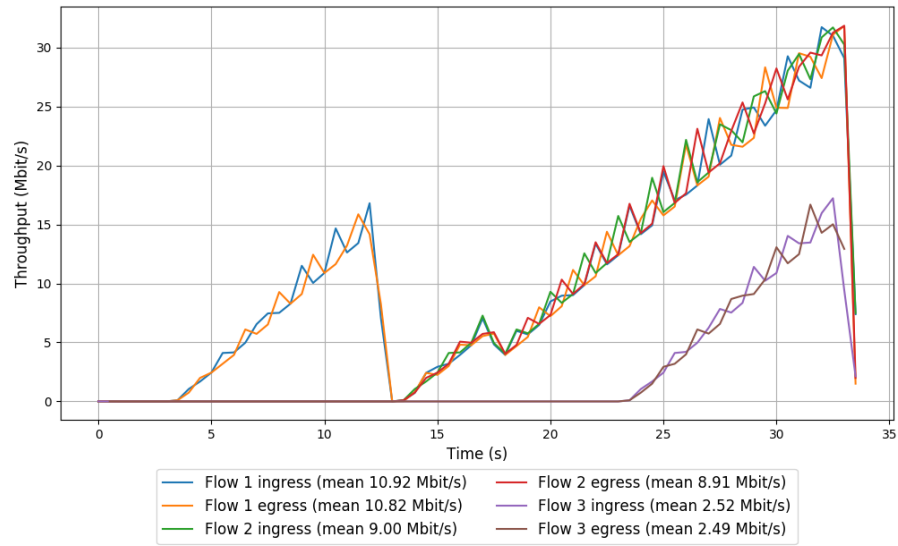
-- Flow 3:

Average throughput: 2.49 Mbit/s

95th percentile per-packet one-way delay: 52.283 ms

Loss rate: 1.52%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: Sat, 01 Jul 2017 14:34:36 +0000

End at: Sat, 01 Jul 2017 14:35:06 +0000

Local clock offset: 0.127 ms

Remote clock offset: -6.403 ms

Below is generated by plot.py at Sat, 01 Jul 2017 16:20:45 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 13.00 Mbit/s

95th percentile per-packet one-way delay: 52.687 ms

Loss rate: 1.11%

-- Flow 1:

Average throughput: 7.01 Mbit/s

95th percentile per-packet one-way delay: 52.092 ms

Loss rate: 0.73%

-- Flow 2:

Average throughput: 5.10 Mbit/s

95th percentile per-packet one-way delay: 52.937 ms

Loss rate: 1.25%

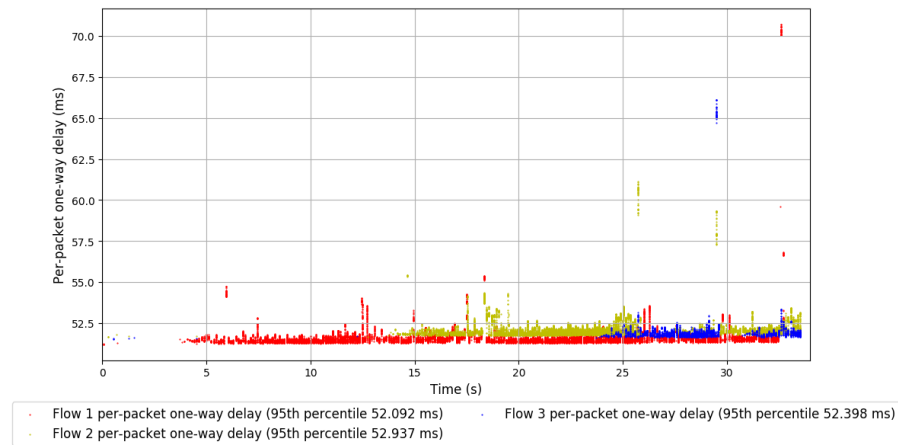
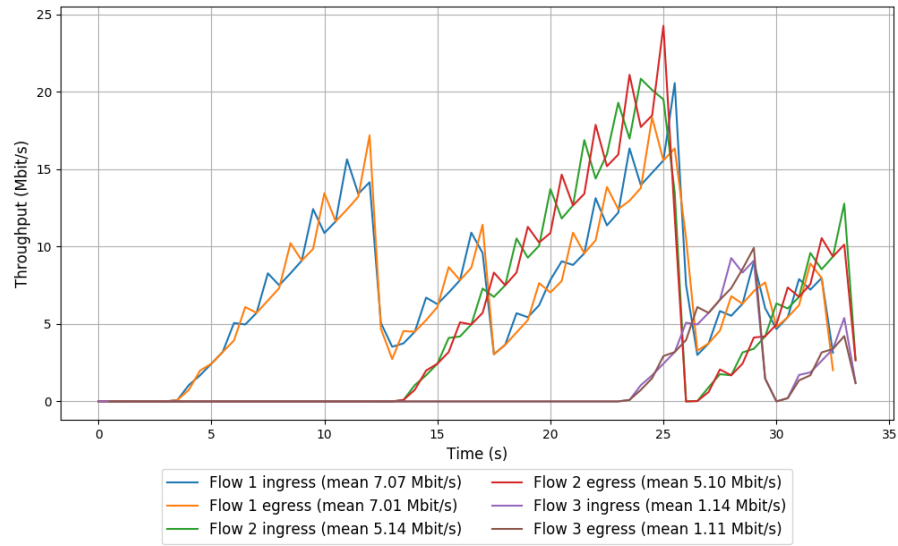
-- Flow 3:

Average throughput: 1.11 Mbit/s

95th percentile per-packet one-way delay: 52.398 ms

Loss rate: 2.80%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: Sat, 01 Jul 2017 14:53:06 +0000

End at: Sat, 01 Jul 2017 14:53:36 +0000

Local clock offset: 0.103 ms

Remote clock offset: -5.67 ms

Below is generated by plot.py at Sat, 01 Jul 2017 16:20:47 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 20.42 Mbit/s

95th percentile per-packet one-way delay: 53.646 ms

Loss rate: 0.82%

-- Flow 1:

Average throughput: 12.01 Mbit/s

95th percentile per-packet one-way delay: 53.714 ms

Loss rate: 0.60%

-- Flow 2:

Average throughput: 6.51 Mbit/s

95th percentile per-packet one-way delay: 53.495 ms

Loss rate: 0.88%

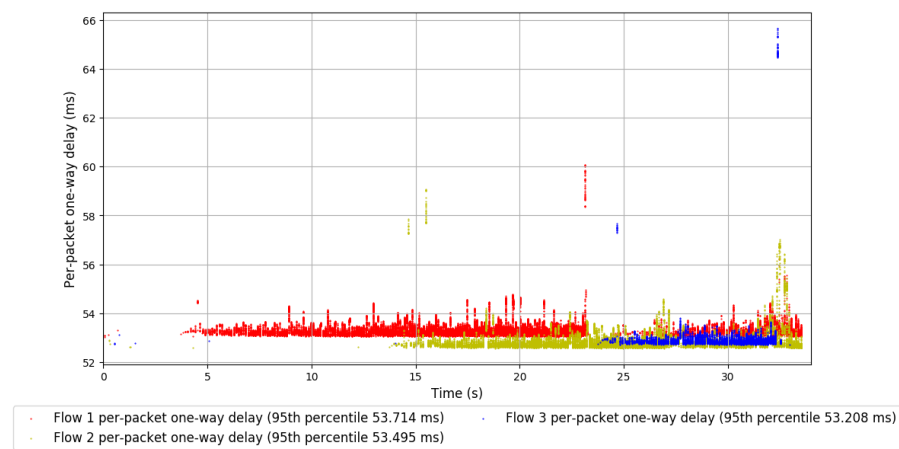
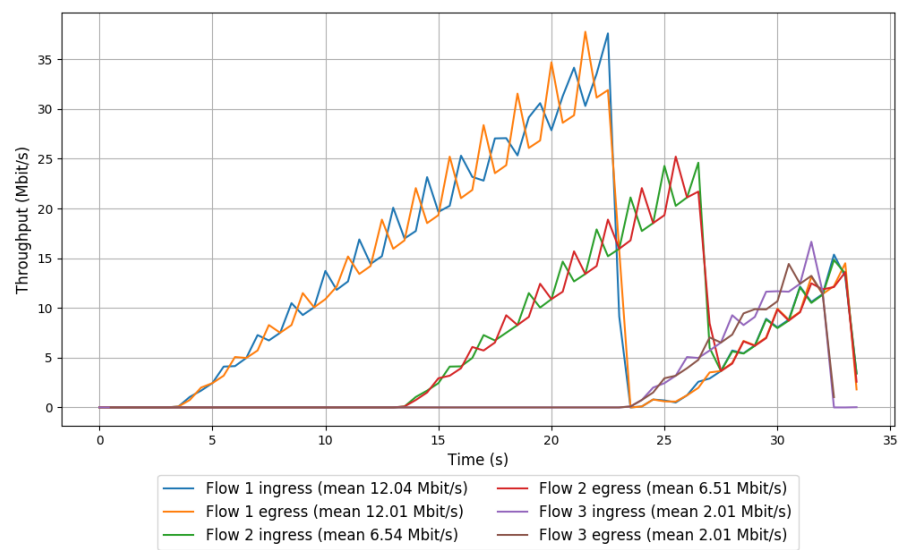
-- Flow 3:

Average throughput: 2.01 Mbit/s

95th percentile per-packet one-way delay: 53.208 ms

Loss rate: 1.94%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: Sat, 01 Jul 2017 15:11:27 +0000

End at: Sat, 01 Jul 2017 15:11:57 +0000

Local clock offset: 0.053 ms

Remote clock offset: -7.86 ms

Below is generated by plot.py at Sat, 01 Jul 2017 16:20:49 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 24.73 Mbit/s

95th percentile per-packet one-way delay: 51.131 ms

Loss rate: 0.94%

-- Flow 1:

Average throughput: 13.05 Mbit/s

95th percentile per-packet one-way delay: 50.752 ms

Loss rate: 0.57%

-- Flow 2:

Average throughput: 10.69 Mbit/s

95th percentile per-packet one-way delay: 51.437 ms

Loss rate: 1.15%

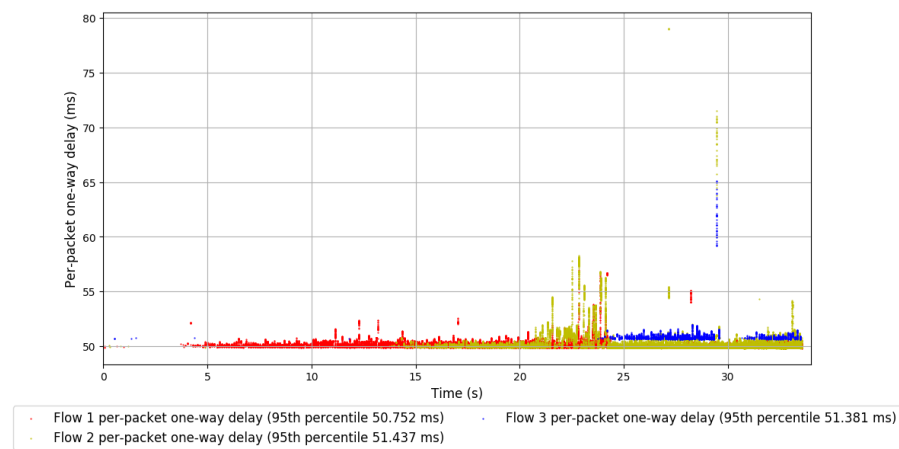
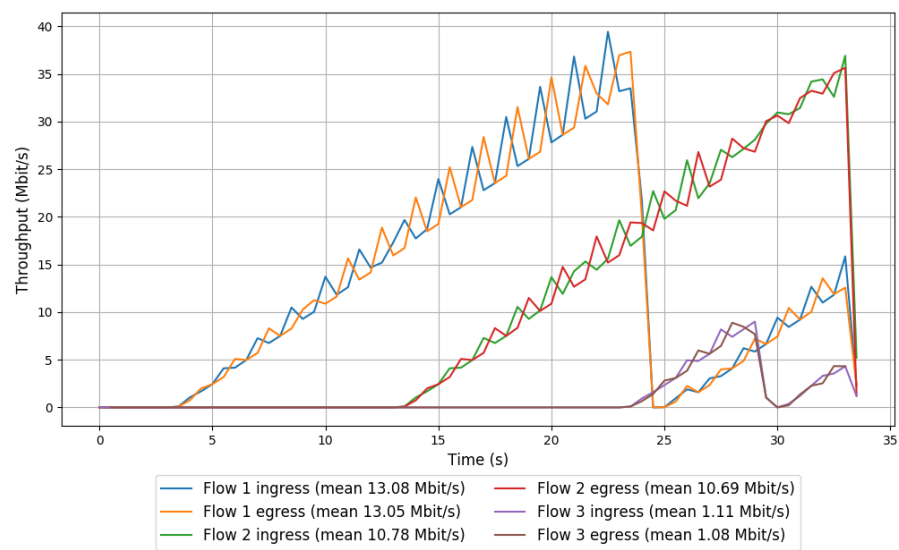
-- Flow 3:

Average throughput: 1.08 Mbit/s

95th percentile per-packet one-way delay: 51.381 ms

Loss rate: 3.41%

Run 10: Report of LEDBAT — Data Link



Run 1: Statistics of PCC

Start at: Sat, 01 Jul 2017 12:12:56 +0000

End at: Sat, 01 Jul 2017 12:13:26 +0000

Local clock offset: 0.525 ms

Remote clock offset: -10.803 ms

Below is generated by plot.py at Sat, 01 Jul 2017 16:21:00 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 76.70 Mbit/s

95th percentile per-packet one-way delay: 64.379 ms

Loss rate: 7.96%

-- Flow 1:

Average throughput: 50.12 Mbit/s

95th percentile per-packet one-way delay: 64.235 ms

Loss rate: 8.48%

-- Flow 2:

Average throughput: 25.75 Mbit/s

95th percentile per-packet one-way delay: 64.471 ms

Loss rate: 6.33%

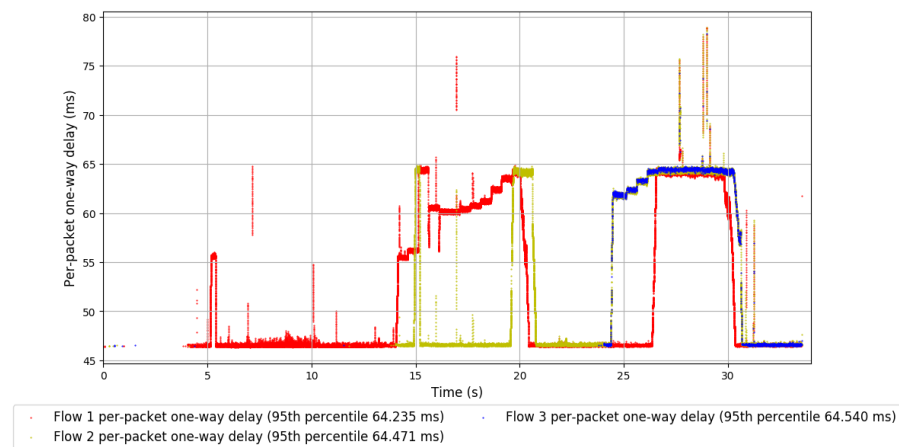
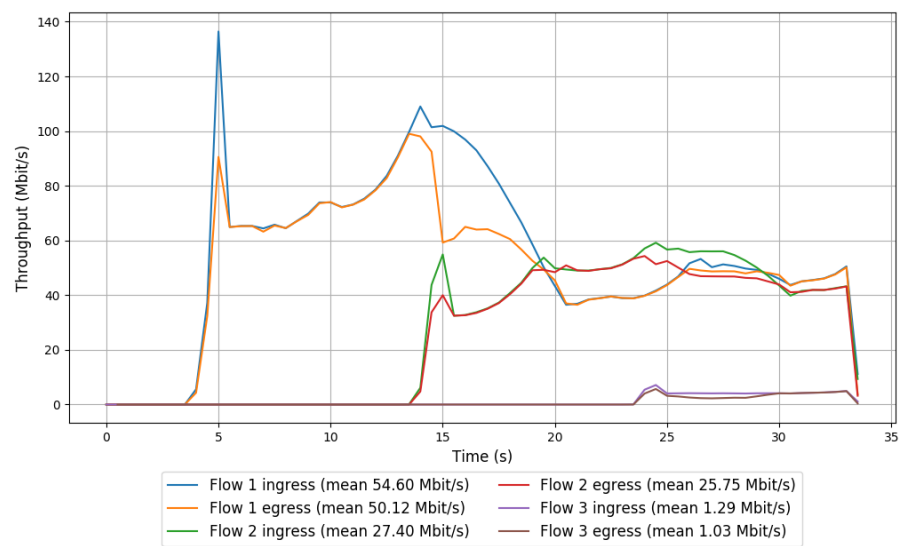
-- Flow 3:

Average throughput: 1.03 Mbit/s

95th percentile per-packet one-way delay: 64.540 ms

Loss rate: 20.39%

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: Sat, 01 Jul 2017 12:31:37 +0000

End at: Sat, 01 Jul 2017 12:32:07 +0000

Local clock offset: 0.493 ms

Remote clock offset: -8.238 ms

Below is generated by plot.py at Sat, 01 Jul 2017 16:21:02 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 79.09 Mbit/s

95th percentile per-packet one-way delay: 66.037 ms

Loss rate: 10.08%

-- Flow 1:

Average throughput: 64.94 Mbit/s

95th percentile per-packet one-way delay: 65.302 ms

Loss rate: 9.79%

-- Flow 2:

Average throughput: 3.90 Mbit/s

95th percentile per-packet one-way delay: 67.192 ms

Loss rate: 23.74%

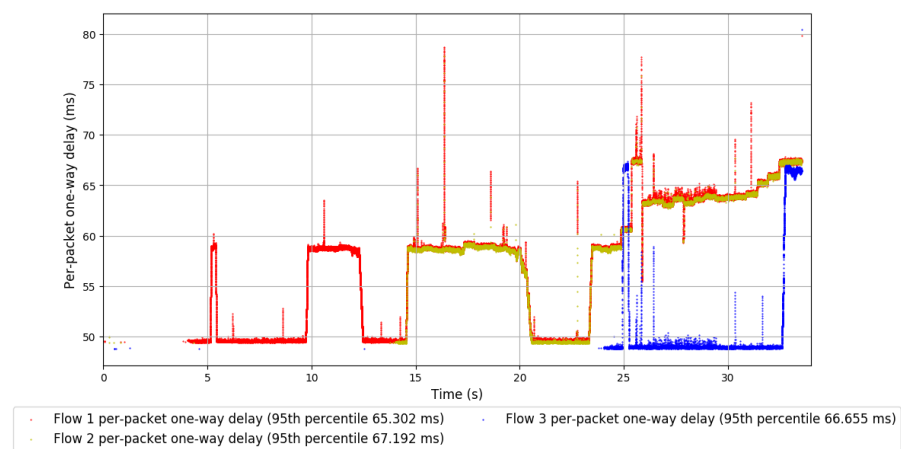
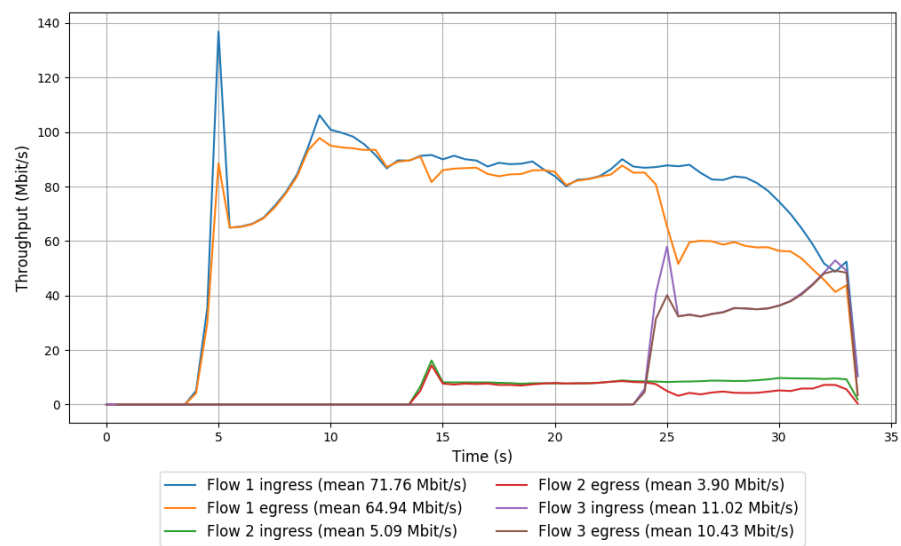
-- Flow 3:

Average throughput: 10.43 Mbit/s

95th percentile per-packet one-way delay: 66.655 ms

Loss rate: 5.64%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: Sat, 01 Jul 2017 12:50:25 +0000

End at: Sat, 01 Jul 2017 12:50:55 +0000

Local clock offset: 0.343 ms

Remote clock offset: -6.275 ms

Below is generated by plot.py at Sat, 01 Jul 2017 16:21:13 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 78.47 Mbit/s

95th percentile per-packet one-way delay: 67.919 ms

Loss rate: 7.23%

-- Flow 1:

Average throughput: 66.29 Mbit/s

95th percentile per-packet one-way delay: 68.054 ms

Loss rate: 7.46%

-- Flow 2:

Average throughput: 1.12 Mbit/s

95th percentile per-packet one-way delay: 68.544 ms

Loss rate: 18.86%

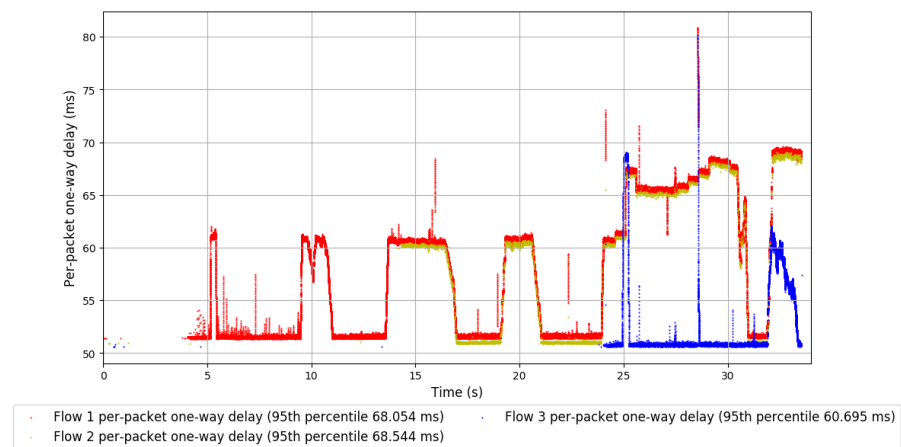
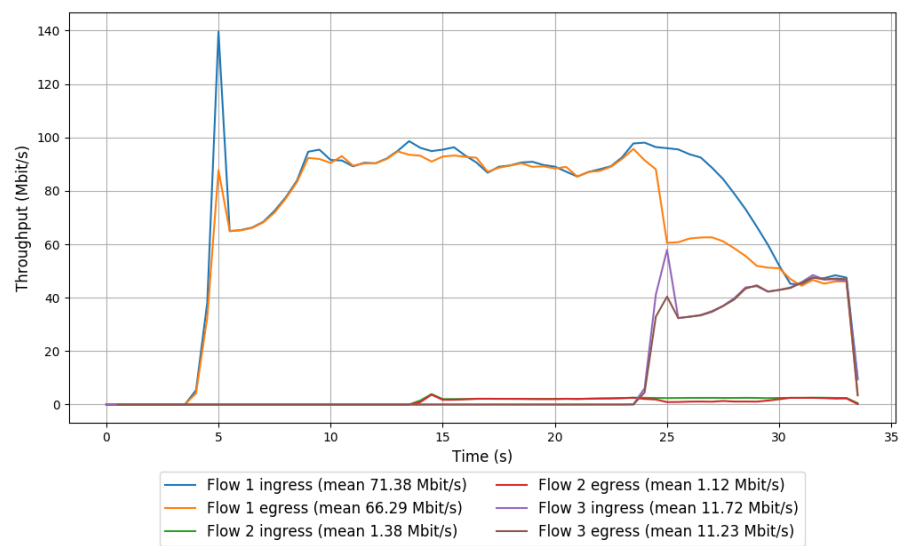
-- Flow 3:

Average throughput: 11.23 Mbit/s

95th percentile per-packet one-way delay: 60.695 ms

Loss rate: 4.46%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: Sat, 01 Jul 2017 13:09:00 +0000

End at: Sat, 01 Jul 2017 13:09:30 +0000

Local clock offset: 0.314 ms

Remote clock offset: -4.141 ms

Below is generated by plot.py at Sat, 01 Jul 2017 16:21:15 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 79.86 Mbit/s

95th percentile per-packet one-way delay: 71.356 ms

Loss rate: 10.73%

-- Flow 1:

Average throughput: 54.33 Mbit/s

95th percentile per-packet one-way delay: 71.256 ms

Loss rate: 13.24%

-- Flow 2:

Average throughput: 23.50 Mbit/s

95th percentile per-packet one-way delay: 71.459 ms

Loss rate: 4.47%

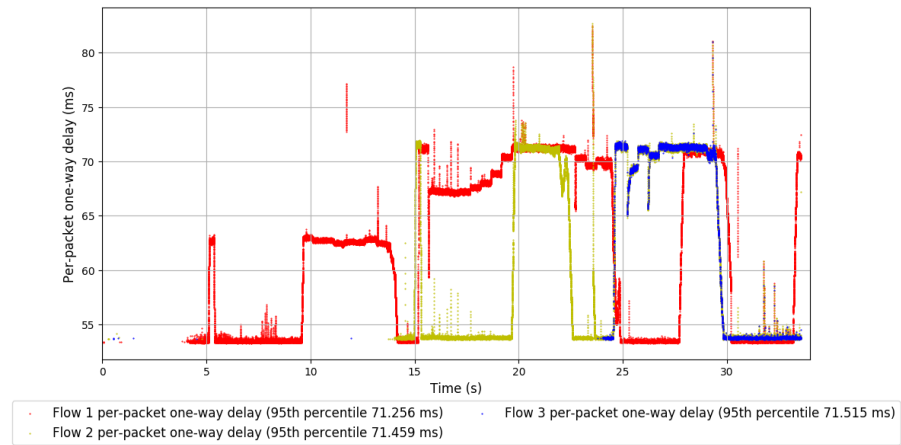
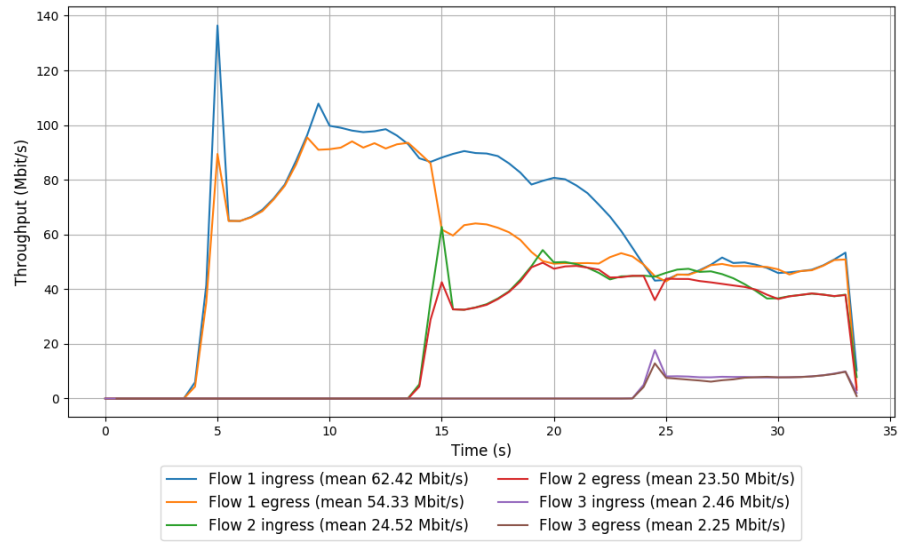
-- Flow 3:

Average throughput: 2.25 Mbit/s

95th percentile per-packet one-way delay: 71.515 ms

Loss rate: 9.02%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: Sat, 01 Jul 2017 13:27:47 +0000

End at: Sat, 01 Jul 2017 13:28:17 +0000

Local clock offset: 0.208 ms

Remote clock offset: -3.022 ms

Below is generated by plot.py at Sat, 01 Jul 2017 16:21:26 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 76.53 Mbit/s

95th percentile per-packet one-way delay: 64.042 ms

Loss rate: 4.58%

-- Flow 1:

Average throughput: 65.90 Mbit/s

95th percentile per-packet one-way delay: 63.762 ms

Loss rate: 4.56%

-- Flow 2:

Average throughput: 9.52 Mbit/s

95th percentile per-packet one-way delay: 64.222 ms

Loss rate: 4.76%

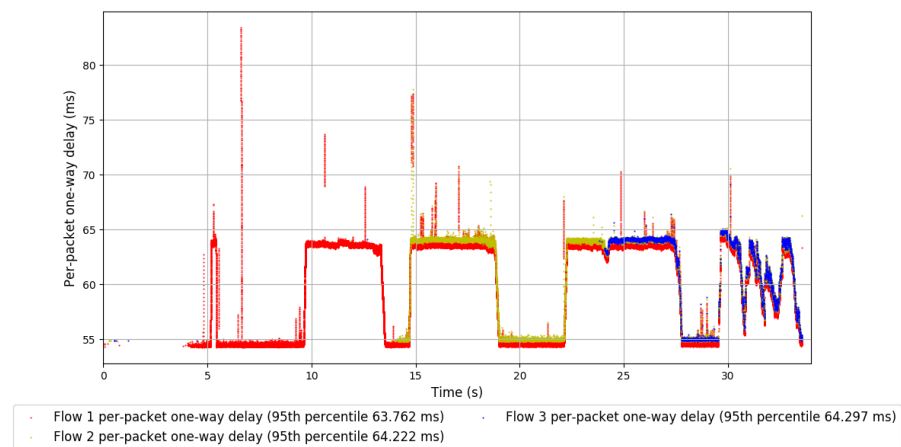
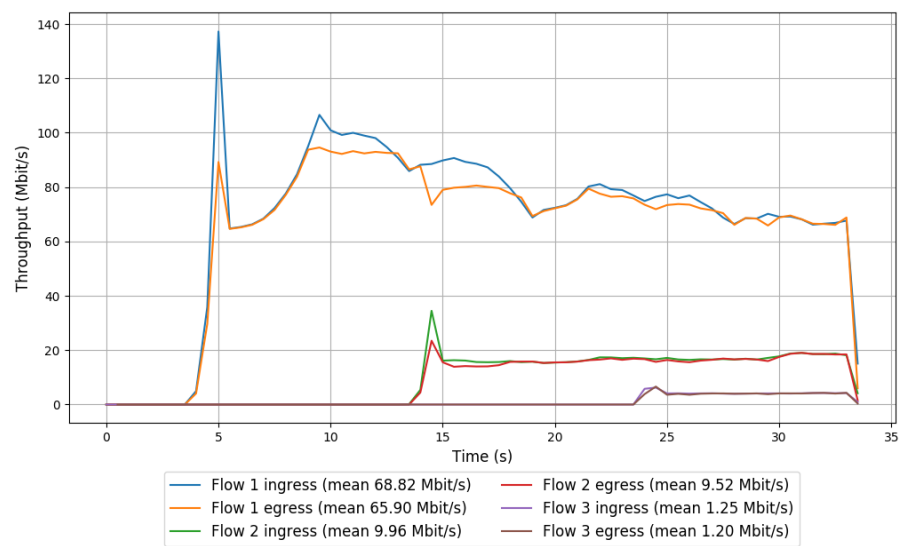
-- Flow 3:

Average throughput: 1.20 Mbit/s

95th percentile per-packet one-way delay: 64.297 ms

Loss rate: 4.42%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: Sat, 01 Jul 2017 13:46:19 +0000

End at: Sat, 01 Jul 2017 13:46:49 +0000

Local clock offset: 0.142 ms

Remote clock offset: -1.253 ms

Below is generated by plot.py at Sat, 01 Jul 2017 16:21:26 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 64.46 Mbit/s

95th percentile per-packet one-way delay: 65.470 ms

Loss rate: 2.95%

-- Flow 1:

Average throughput: 61.49 Mbit/s

95th percentile per-packet one-way delay: 65.395 ms

Loss rate: 2.81%

-- Flow 2:

Average throughput: 2.42 Mbit/s

95th percentile per-packet one-way delay: 66.043 ms

Loss rate: 5.66%

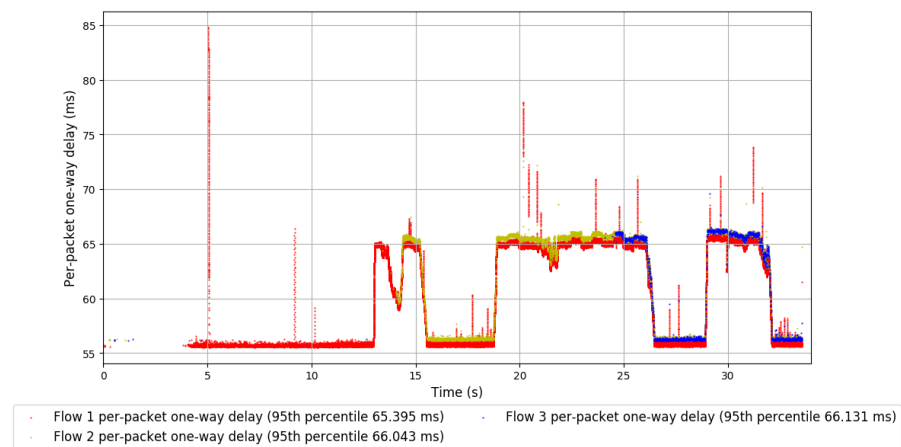
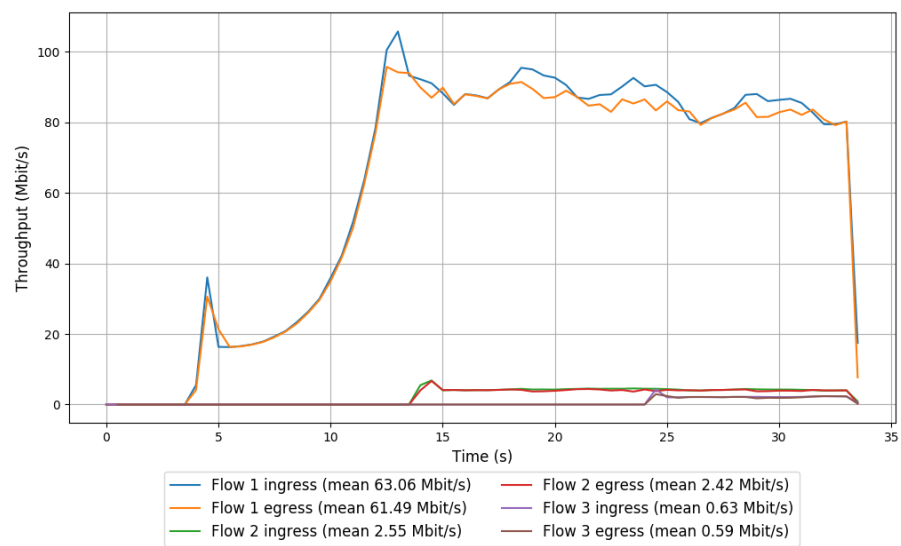
-- Flow 3:

Average throughput: 0.59 Mbit/s

95th percentile per-packet one-way delay: 66.131 ms

Loss rate: 6.23%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: Sat, 01 Jul 2017 14:04:48 +0000

End at: Sat, 01 Jul 2017 14:05:18 +0000

Local clock offset: 0.196 ms

Remote clock offset: -4.7 ms

Below is generated by plot.py at Sat, 01 Jul 2017 16:21:38 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 73.99 Mbit/s

95th percentile per-packet one-way delay: 71.017 ms

Loss rate: 8.70%

-- Flow 1:

Average throughput: 48.39 Mbit/s

95th percentile per-packet one-way delay: 71.202 ms

Loss rate: 11.60%

-- Flow 2:

Average throughput: 23.46 Mbit/s

95th percentile per-packet one-way delay: 69.615 ms

Loss rate: 2.24%

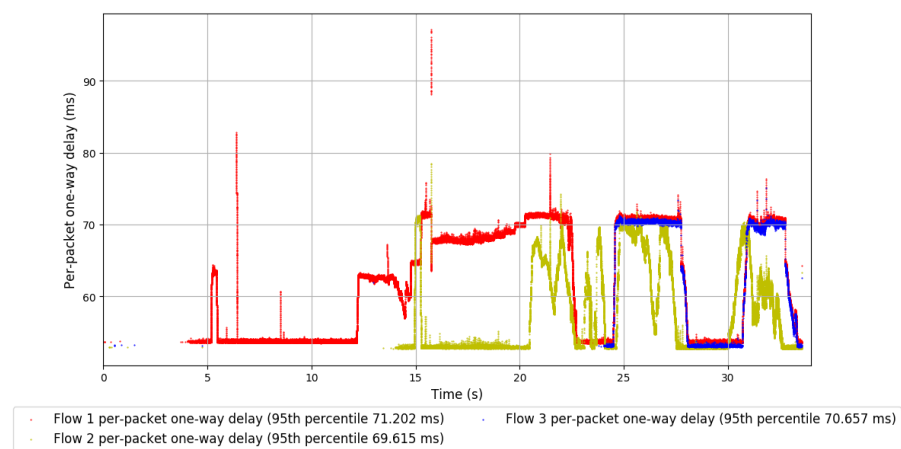
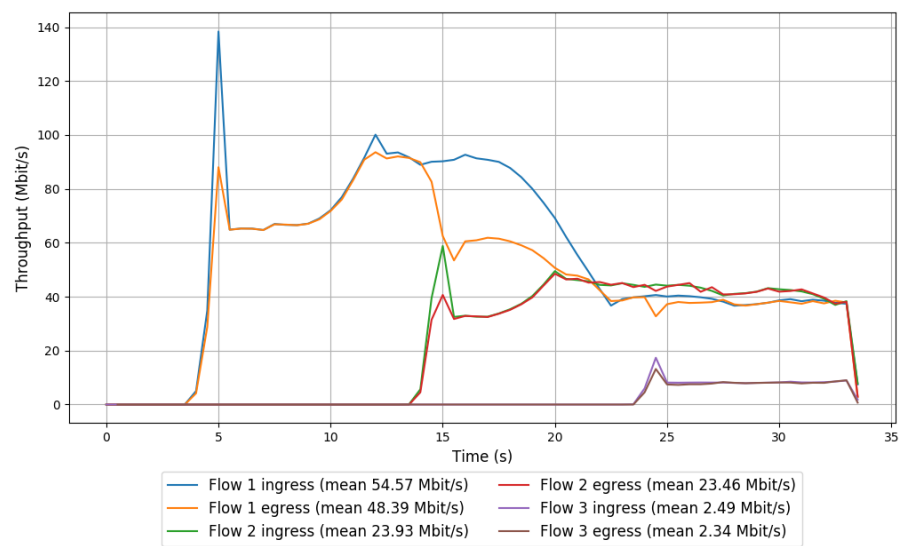
-- Flow 3:

Average throughput: 2.34 Mbit/s

95th percentile per-packet one-way delay: 70.657 ms

Loss rate: 6.54%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: Sat, 01 Jul 2017 14:23:27 +0000

End at: Sat, 01 Jul 2017 14:23:57 +0000

Local clock offset: 0.167 ms

Remote clock offset: -7.243 ms

Below is generated by plot.py at Sat, 01 Jul 2017 16:21:38 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 74.07 Mbit/s

95th percentile per-packet one-way delay: 59.845 ms

Loss rate: 3.82%

-- Flow 1:

Average throughput: 66.43 Mbit/s

95th percentile per-packet one-way delay: 59.240 ms

Loss rate: 3.72%

-- Flow 2:

Average throughput: 7.02 Mbit/s

95th percentile per-packet one-way delay: 60.247 ms

Loss rate: 4.40%

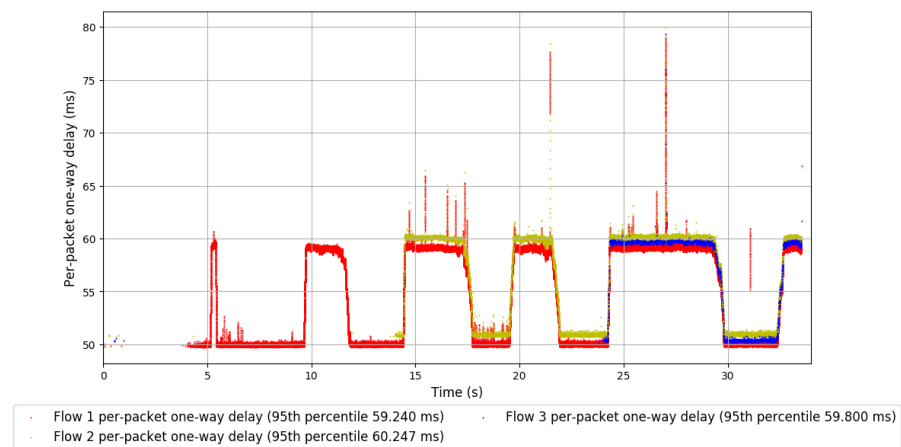
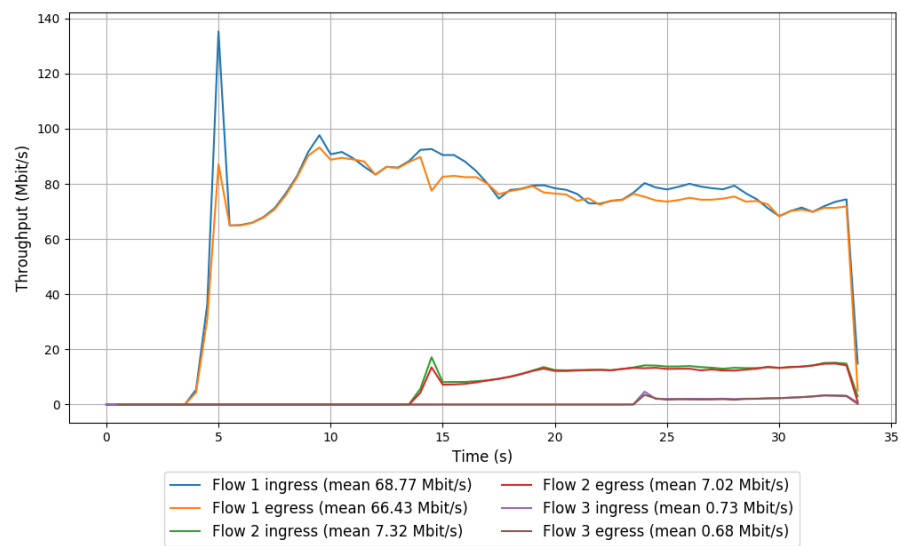
-- Flow 3:

Average throughput: 0.68 Mbit/s

95th percentile per-packet one-way delay: 59.800 ms

Loss rate: 7.08%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: Sat, 01 Jul 2017 14:41:58 +0000

End at: Sat, 01 Jul 2017 14:42:28 +0000

Local clock offset: 0.142 ms

Remote clock offset: -5.448 ms

Below is generated by plot.py at Sat, 01 Jul 2017 16:21:49 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 73.58 Mbit/s

95th percentile per-packet one-way delay: 61.888 ms

Loss rate: 4.26%

-- Flow 1:

Average throughput: 70.37 Mbit/s

95th percentile per-packet one-way delay: 61.892 ms

Loss rate: 4.13%

-- Flow 2:

Average throughput: 2.65 Mbit/s

95th percentile per-packet one-way delay: 61.540 ms

Loss rate: 6.36%

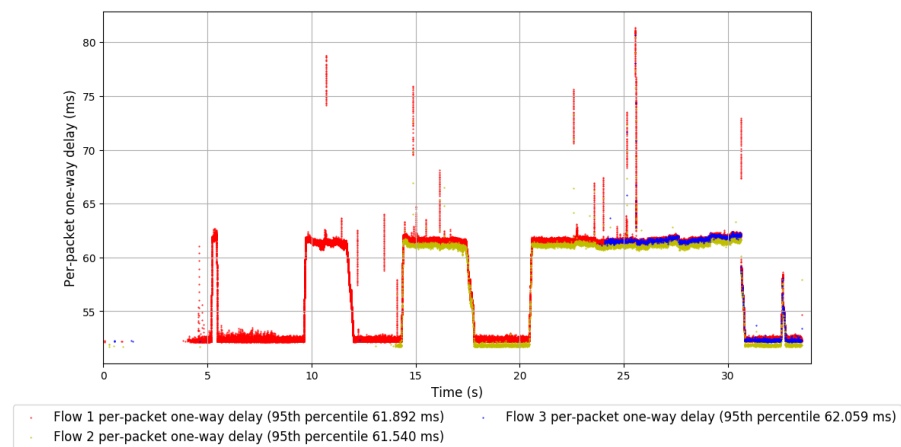
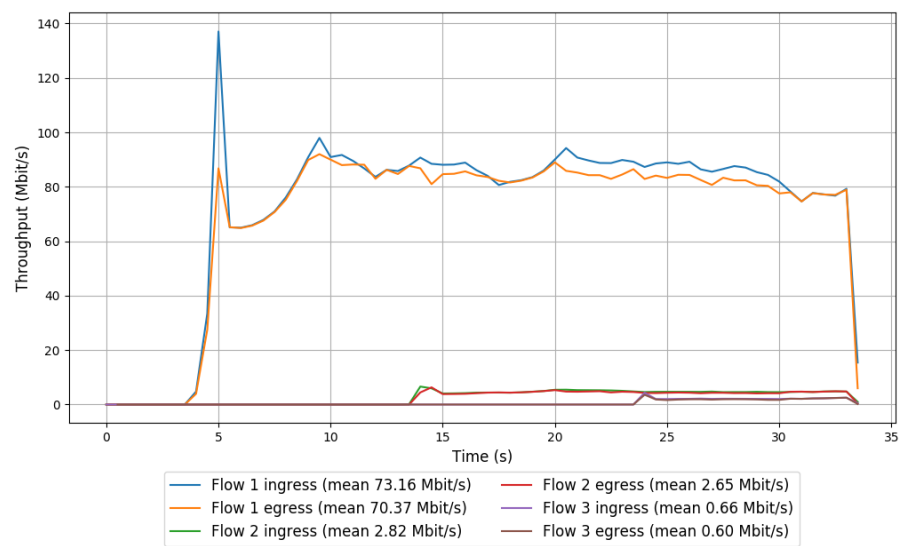
-- Flow 3:

Average throughput: 0.60 Mbit/s

95th percentile per-packet one-way delay: 62.059 ms

Loss rate: 8.99%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: Sat, 01 Jul 2017 15:00:29 +0000

End at: Sat, 01 Jul 2017 15:00:59 +0000

Local clock offset: 0.154 ms

Remote clock offset: -6.058 ms

Below is generated by plot.py at Sat, 01 Jul 2017 16:21:50 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 68.34 Mbit/s

95th percentile per-packet one-way delay: 62.295 ms

Loss rate: 5.75%

-- Flow 1:

Average throughput: 59.00 Mbit/s

95th percentile per-packet one-way delay: 62.393 ms

Loss rate: 5.52%

-- Flow 2:

Average throughput: 4.66 Mbit/s

95th percentile per-packet one-way delay: 62.140 ms

Loss rate: 5.98%

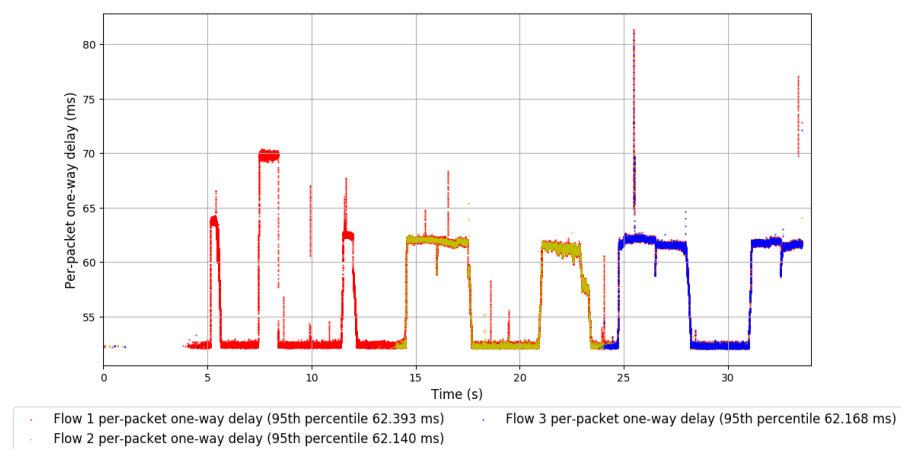
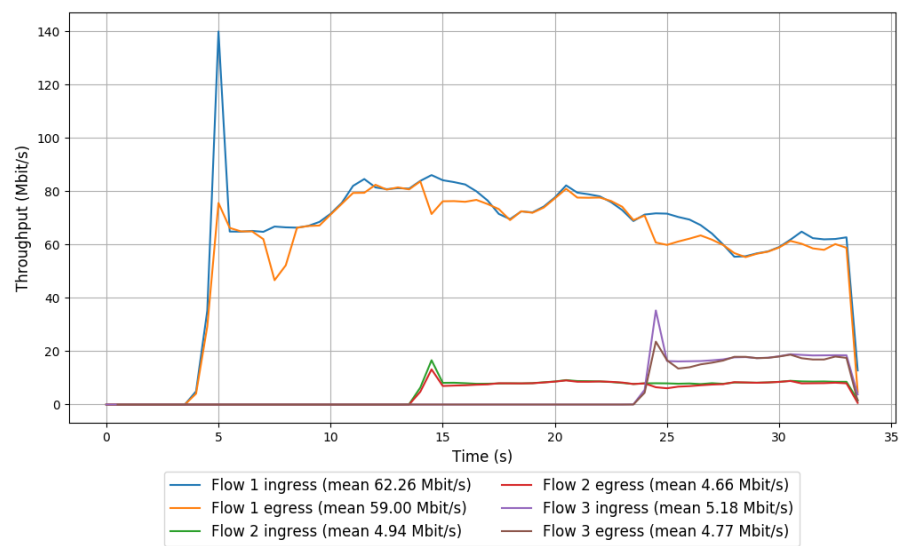
-- Flow 3:

Average throughput: 4.77 Mbit/s

95th percentile per-packet one-way delay: 62.168 ms

Loss rate: 8.26%

Run 10: Report of PCC — Data Link



Run 1: Statistics of QUIC Cubic (toy)

Start at: Sat, 01 Jul 2017 12:19:15 +0000

End at: Sat, 01 Jul 2017 12:19:45 +0000

Local clock offset: 0.512 ms

Remote clock offset: -10.086 ms

Below is generated by plot.py at Sat, 01 Jul 2017 16:21:57 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 38.87 Mbit/s

95th percentile per-packet one-way delay: 47.904 ms

Loss rate: 1.32%

-- Flow 1:

Average throughput: 16.66 Mbit/s

95th percentile per-packet one-way delay: 47.006 ms

Loss rate: 0.43%

-- Flow 2:

Average throughput: 15.79 Mbit/s

95th percentile per-packet one-way delay: 47.916 ms

Loss rate: 0.00%

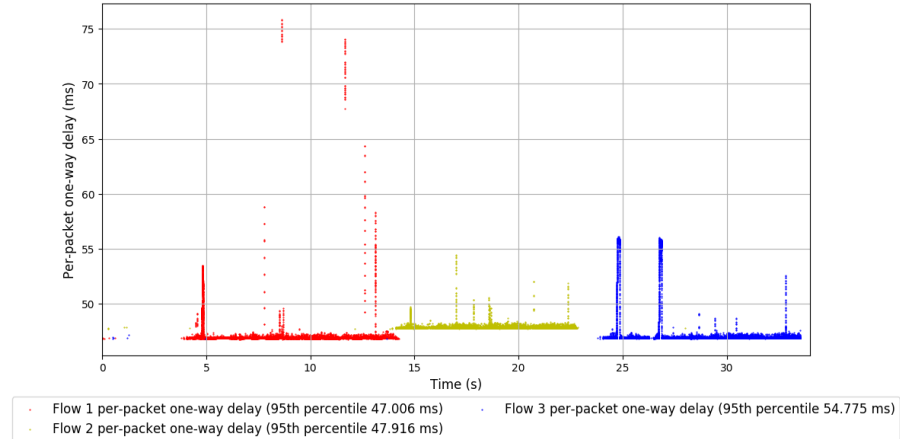
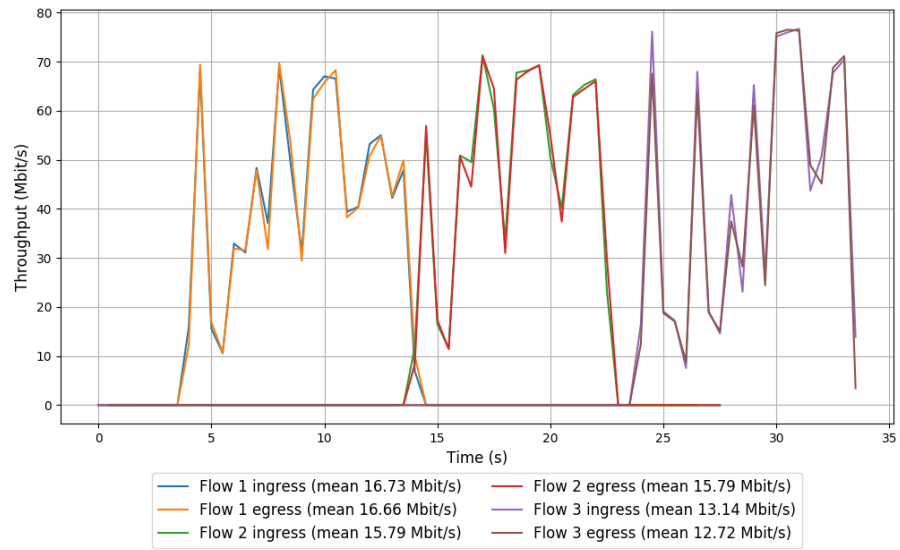
-- Flow 3:

Average throughput: 12.72 Mbit/s

95th percentile per-packet one-way delay: 54.775 ms

Loss rate: 3.56%

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



Run 2: Statistics of QUIC Cubic (toy)

Start at: Sat, 01 Jul 2017 12:38:01 +0000

End at: Sat, 01 Jul 2017 12:38:31 +0000

Local clock offset: 0.46 ms

Remote clock offset: -8.182 ms

Below is generated by plot.py at Sat, 01 Jul 2017 16:21:57 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 37.96 Mbit/s

95th percentile per-packet one-way delay: 50.151 ms

Loss rate: 1.21%

-- Flow 1:

Average throughput: 13.86 Mbit/s

95th percentile per-packet one-way delay: 49.411 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 14.03 Mbit/s

95th percentile per-packet one-way delay: 50.163 ms

Loss rate: 0.03%

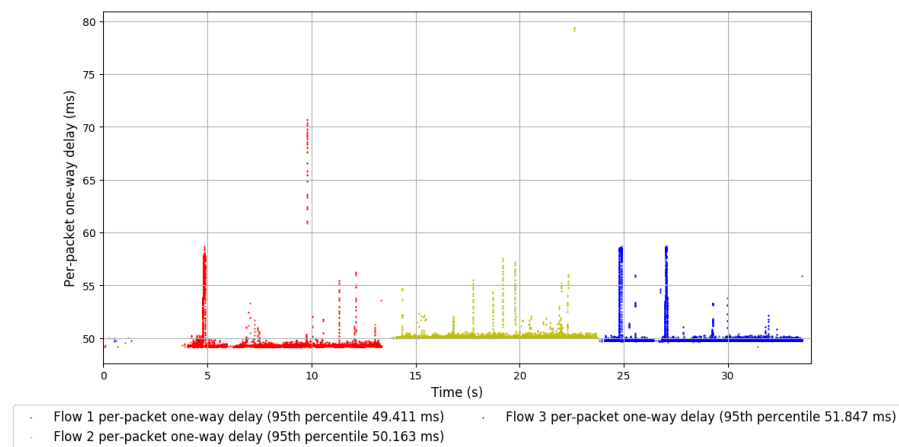
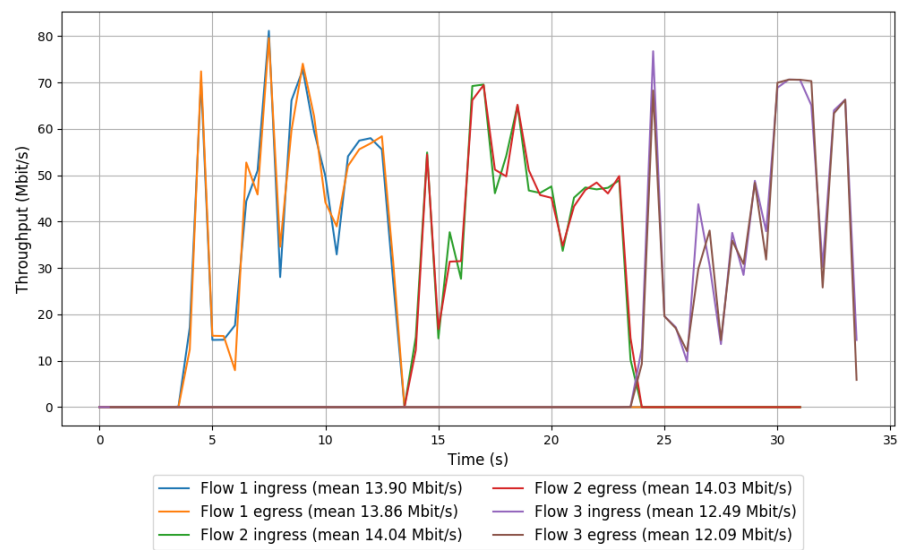
-- Flow 3:

Average throughput: 12.09 Mbit/s

95th percentile per-packet one-way delay: 51.847 ms

Loss rate: 3.47%

Run 2: Report of QUIC Cubic (toy) — Data Link



Run 3: Statistics of QUIC Cubic (toy)

Start at: Sat, 01 Jul 2017 12:56:38 +0000

End at: Sat, 01 Jul 2017 12:57:08 +0000

Local clock offset: 0.4 ms

Remote clock offset: -6.101 ms

Below is generated by plot.py at Sat, 01 Jul 2017 16:22:04 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 37.67 Mbit/s

95th percentile per-packet one-way delay: 52.625 ms

Loss rate: 0.87%

-- Flow 1:

Average throughput: 13.88 Mbit/s

95th percentile per-packet one-way delay: 52.166 ms

Loss rate: 0.33%

-- Flow 2:

Average throughput: 14.20 Mbit/s

95th percentile per-packet one-way delay: 51.773 ms

Loss rate: 0.00%

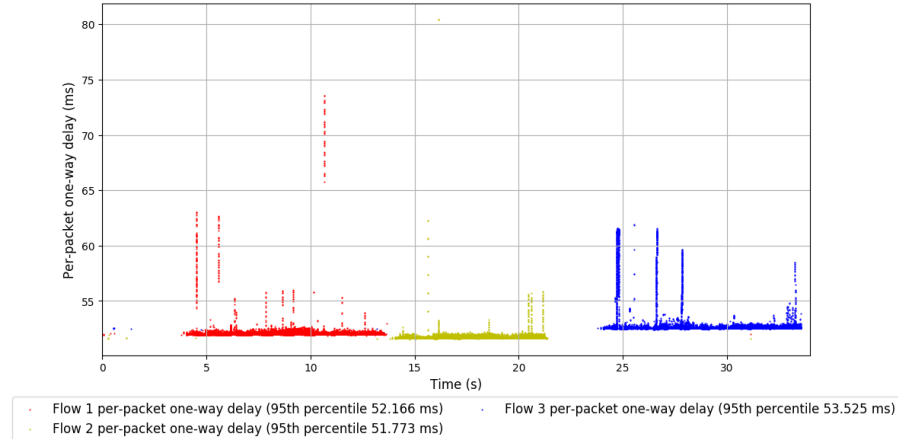
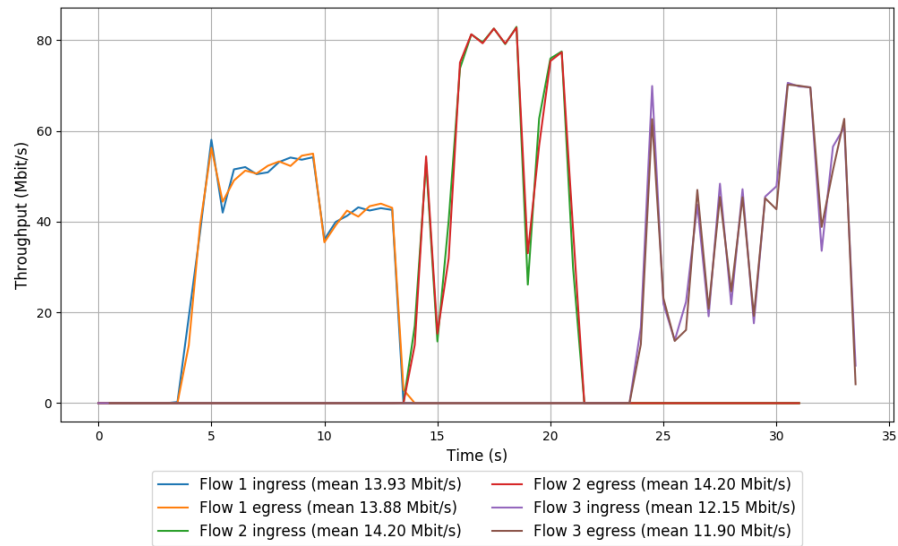
-- Flow 3:

Average throughput: 11.90 Mbit/s

95th percentile per-packet one-way delay: 53.525 ms

Loss rate: 2.40%

Run 3: Report of QUIC Cubic (toy) — Data Link



Run 4: Statistics of QUIC Cubic (toy)

Start at: Sat, 01 Jul 2017 13:15:14 +0000

End at: Sat, 01 Jul 2017 13:15:44 +0000

Local clock offset: 0.279 ms

Remote clock offset: -3.88 ms

Below is generated by plot.py at Sat, 01 Jul 2017 16:22:04 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 37.63 Mbit/s

95th percentile per-packet one-way delay: 55.606 ms

Loss rate: 2.25%

-- Flow 1:

Average throughput: 13.96 Mbit/s

95th percentile per-packet one-way delay: 53.792 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 16.08 Mbit/s

95th percentile per-packet one-way delay: 63.213 ms

Loss rate: 3.48%

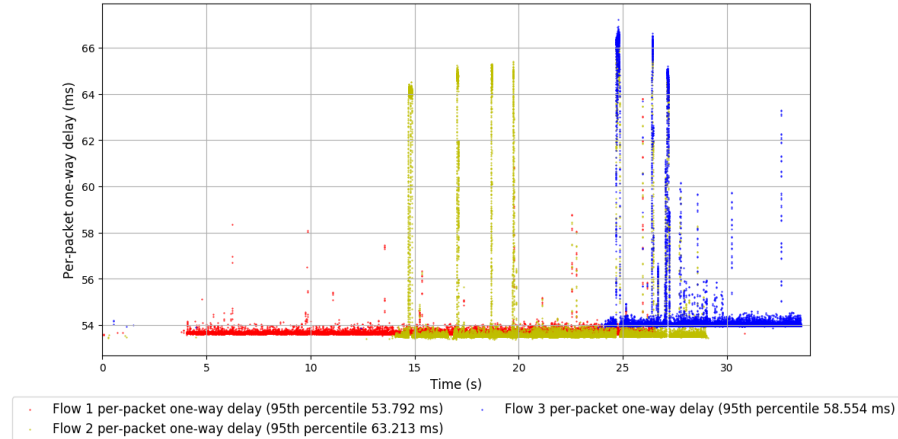
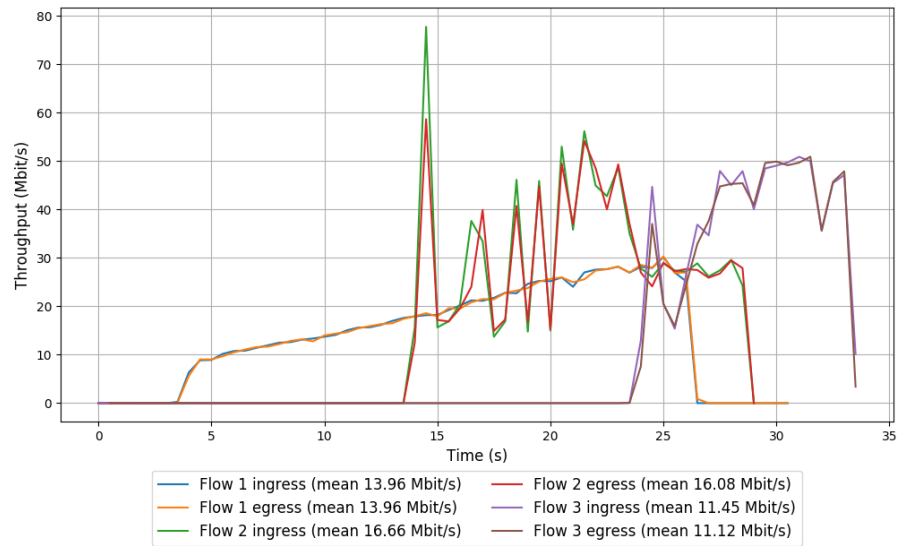
-- Flow 3:

Average throughput: 11.12 Mbit/s

95th percentile per-packet one-way delay: 58.554 ms

Loss rate: 3.26%

Run 4: Report of QUIC Cubic (toy) — Data Link



Run 5: Statistics of QUIC Cubic (toy)

Start at: Sat, 01 Jul 2017 13:34:02 +0000

End at: Sat, 01 Jul 2017 13:34:32 +0000

Local clock offset: 0.249 ms

Remote clock offset: -2.408 ms

Below is generated by plot.py at Sat, 01 Jul 2017 16:22:11 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 39.18 Mbit/s

95th percentile per-packet one-way delay: 55.822 ms

Loss rate: 2.18%

-- Flow 1:

Average throughput: 16.95 Mbit/s

95th percentile per-packet one-way delay: 58.271 ms

Loss rate: 1.59%

-- Flow 2:

Average throughput: 16.35 Mbit/s

95th percentile per-packet one-way delay: 54.915 ms

Loss rate: 1.29%

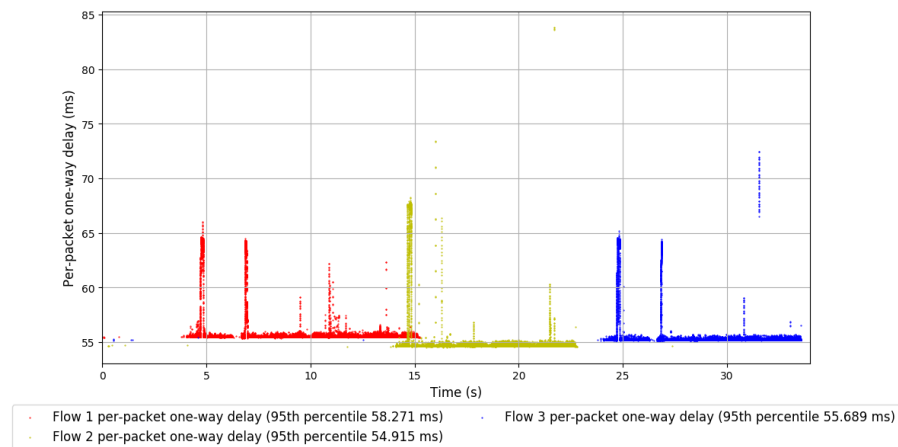
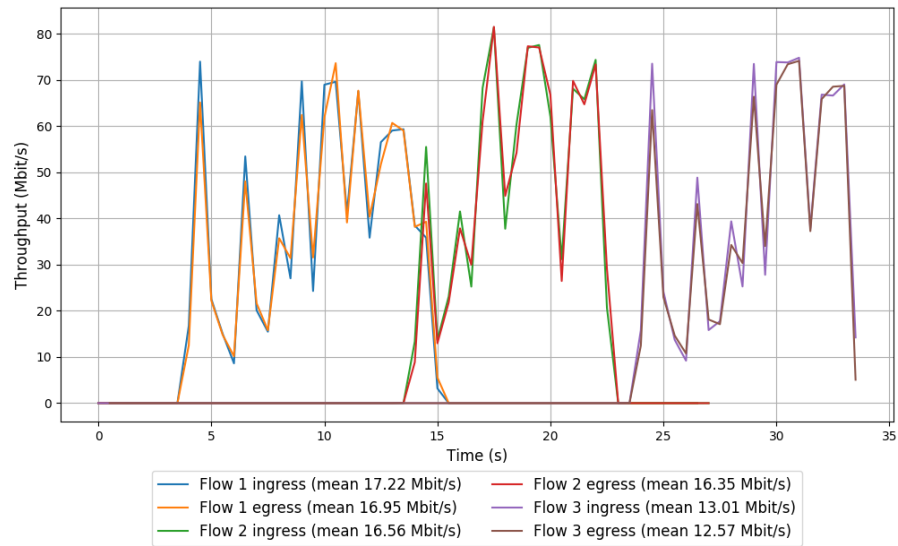
-- Flow 3:

Average throughput: 12.57 Mbit/s

95th percentile per-packet one-way delay: 55.689 ms

Loss rate: 3.74%

Run 5: Report of QUIC Cubic (toy) — Data Link



Run 6: Statistics of QUIC Cubic (toy)

Start at: Sat, 01 Jul 2017 13:52:30 +0000

End at: Sat, 01 Jul 2017 13:53:00 +0000

Local clock offset: 0.227 ms

Remote clock offset: -2.233 ms

Below is generated by plot.py at Sat, 01 Jul 2017 16:22:11 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 40.37 Mbit/s

95th percentile per-packet one-way delay: 56.256 ms

Loss rate: 1.14%

-- Flow 1:

Average throughput: 16.21 Mbit/s

95th percentile per-packet one-way delay: 56.348 ms

Loss rate: 0.37%

-- Flow 2:

Average throughput: 16.08 Mbit/s

95th percentile per-packet one-way delay: 56.282 ms

Loss rate: 1.80%

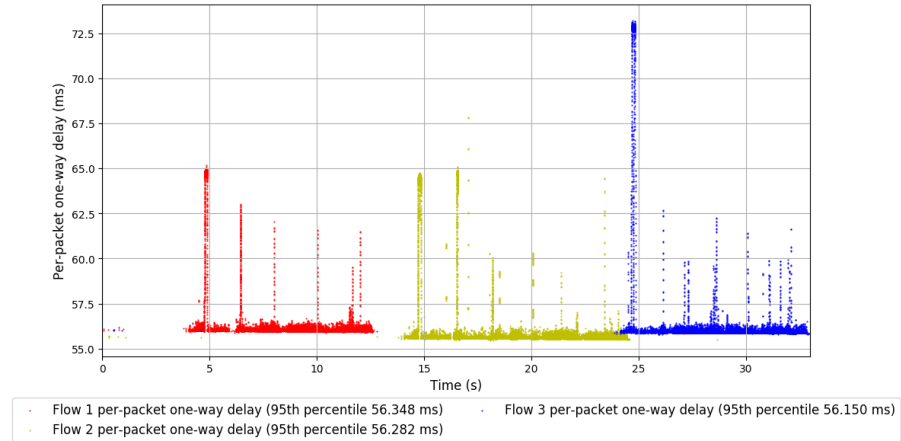
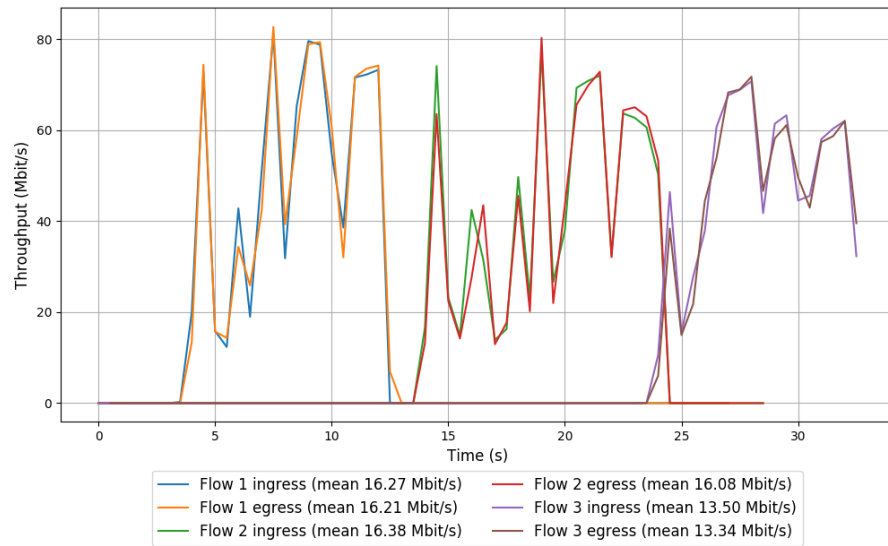
-- Flow 3:

Average throughput: 13.34 Mbit/s

95th percentile per-packet one-way delay: 56.150 ms

Loss rate: 1.22%

Run 6: Report of QUIC Cubic (toy) — Data Link



Run 7: Statistics of QUIC Cubic (toy)

Start at: Sat, 01 Jul 2017 14:11:09 +0000

End at: Sat, 01 Jul 2017 14:11:39 +0000

Local clock offset: 0.166 ms

Remote clock offset: -5.932 ms

Below is generated by plot.py at Sat, 01 Jul 2017 16:22:18 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 39.14 Mbit/s

95th percentile per-packet one-way delay: 52.309 ms

Loss rate: 1.44%

-- Flow 1:

Average throughput: 16.26 Mbit/s

95th percentile per-packet one-way delay: 52.230 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 15.08 Mbit/s

95th percentile per-packet one-way delay: 51.292 ms

Loss rate: 0.40%

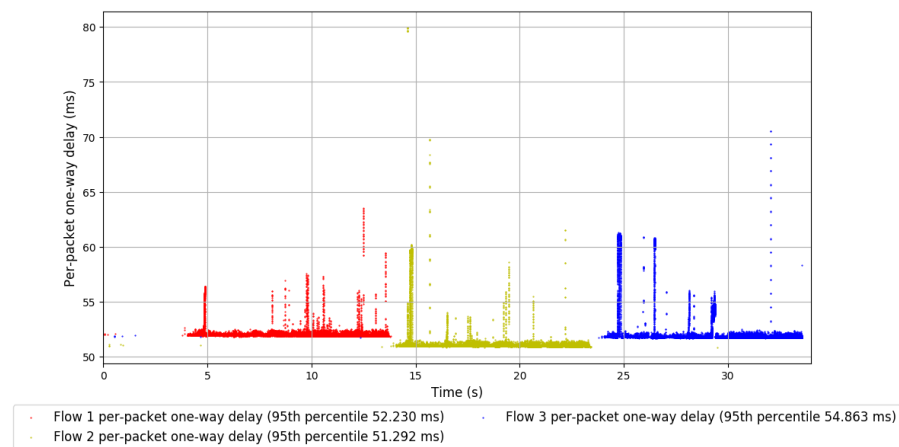
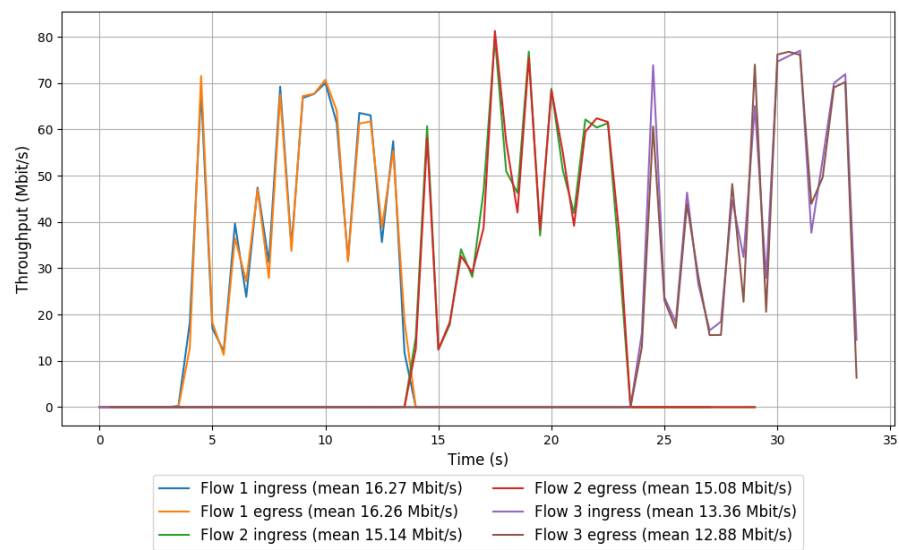
-- Flow 3:

Average throughput: 12.88 Mbit/s

95th percentile per-packet one-way delay: 54.863 ms

Loss rate: 3.88%

Run 7: Report of QUIC Cubic (toy) — Data Link



Run 8: Statistics of QUIC Cubic (toy)

Start at: Sat, 01 Jul 2017 14:29:42 +0000

End at: Sat, 01 Jul 2017 14:30:12 +0000

Local clock offset: 0.155 ms

Remote clock offset: -6.811 ms

Below is generated by plot.py at Sat, 01 Jul 2017 16:22:18 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 38.52 Mbit/s

95th percentile per-packet one-way delay: 52.567 ms

Loss rate: 2.07%

-- Flow 1:

Average throughput: 16.69 Mbit/s

95th percentile per-packet one-way delay: 59.300 ms

Loss rate: 1.80%

-- Flow 2:

Average throughput: 14.54 Mbit/s

95th percentile per-packet one-way delay: 51.109 ms

Loss rate: 1.06%

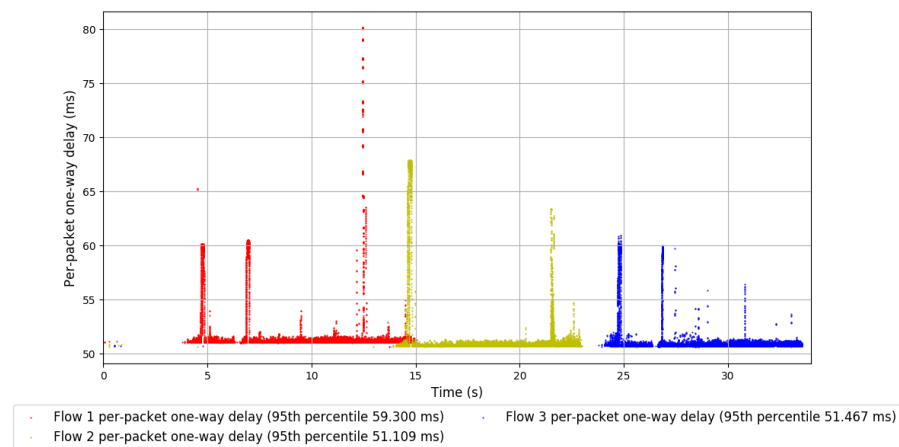
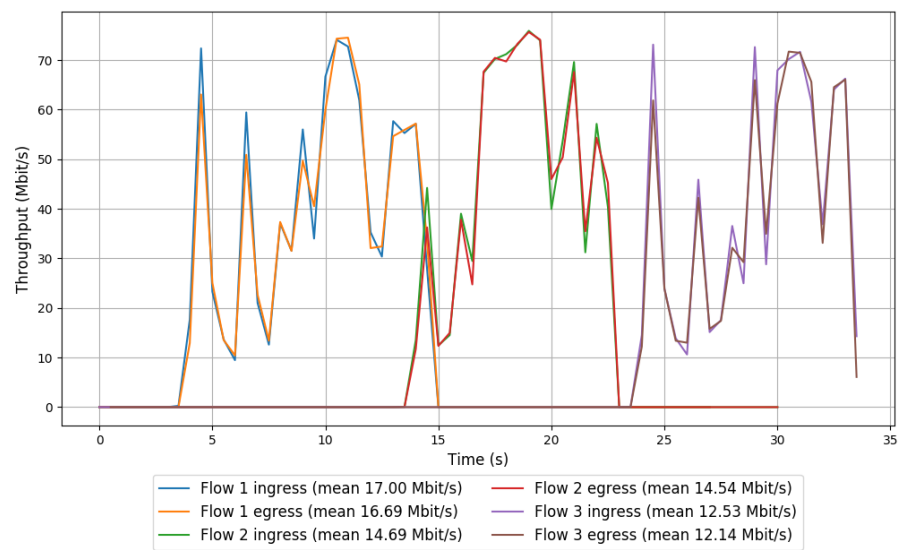
-- Flow 3:

Average throughput: 12.14 Mbit/s

95th percentile per-packet one-way delay: 51.467 ms

Loss rate: 3.44%

Run 8: Report of QUIC Cubic (toy) — Data Link



Run 9: Statistics of QUIC Cubic (toy)

Start at: Sat, 01 Jul 2017 14:48:14 +0000

End at: Sat, 01 Jul 2017 14:48:44 +0000

Local clock offset: 0.112 ms

Remote clock offset: -5.128 ms

Below is generated by plot.py at Sat, 01 Jul 2017 16:22:26 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 39.60 Mbit/s

95th percentile per-packet one-way delay: 58.470 ms

Loss rate: 0.66%

-- Flow 1:

Average throughput: 14.63 Mbit/s

95th percentile per-packet one-way delay: 53.632 ms

Loss rate: 0.52%

-- Flow 2:

Average throughput: 14.87 Mbit/s

95th percentile per-packet one-way delay: 60.801 ms

Loss rate: 0.69%

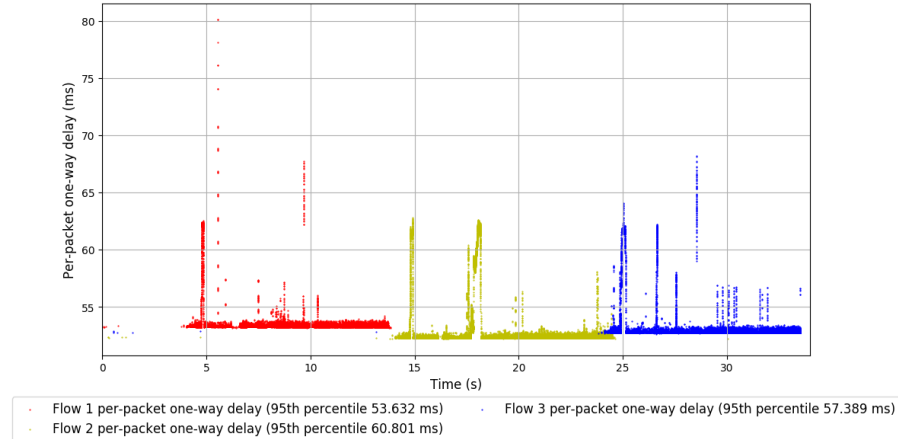
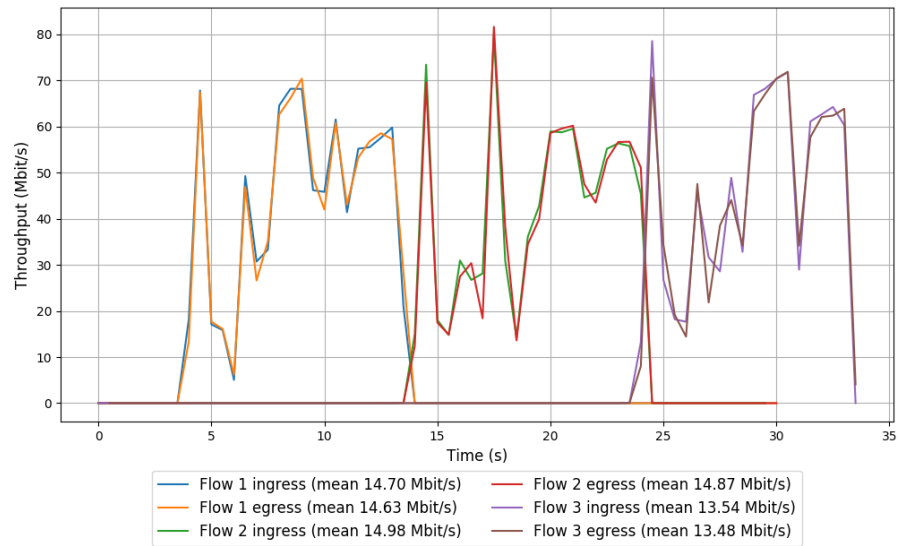
-- Flow 3:

Average throughput: 13.48 Mbit/s

95th percentile per-packet one-way delay: 57.389 ms

Loss rate: 0.75%

Run 9: Report of QUIC Cubic (toy) — Data Link



Run 10: Statistics of QUIC Cubic (toy)

Start at: Sat, 01 Jul 2017 15:06:35 +0000

End at: Sat, 01 Jul 2017 15:07:05 +0000

Local clock offset: 0.05 ms

Remote clock offset: -6.912 ms

Below is generated by plot.py at Sat, 01 Jul 2017 16:22:26 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 40.69 Mbit/s

95th percentile per-packet one-way delay: 51.972 ms

Loss rate: 1.70%

-- Flow 1:

Average throughput: 16.90 Mbit/s

95th percentile per-packet one-way delay: 51.417 ms

Loss rate: 0.24%

-- Flow 2:

Average throughput: 15.27 Mbit/s

95th percentile per-packet one-way delay: 60.361 ms

Loss rate: 3.34%

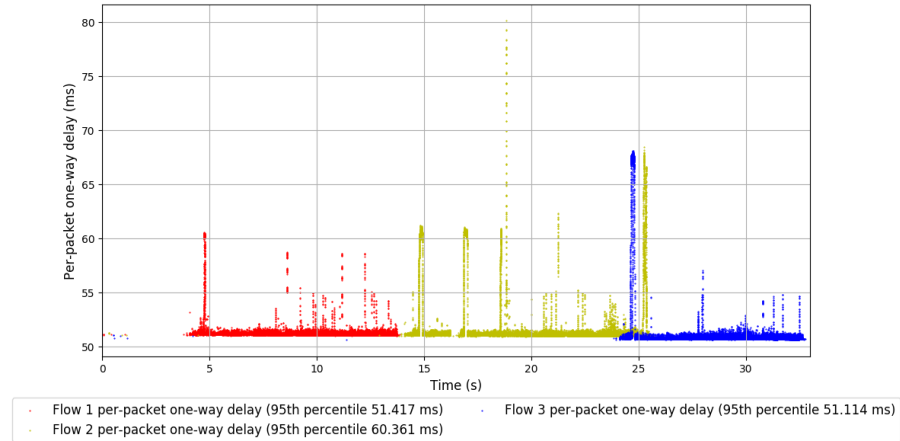
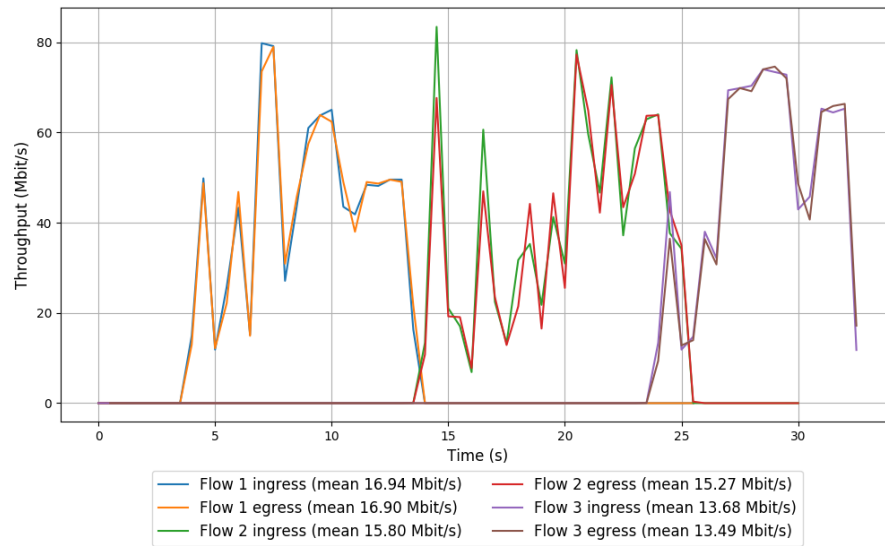
-- Flow 3:

Average throughput: 13.49 Mbit/s

95th percentile per-packet one-way delay: 51.114 ms

Loss rate: 1.38%

Run 10: Report of QUIC Cubic (toy) — Data Link



Run 1: Statistics of Saturator

Start at: Sat, 01 Jul 2017 12:14:11 +0000

End at: Sat, 01 Jul 2017 12:14:41 +0000

Local clock offset: 0.525 ms

Remote clock offset: -10.693 ms

Below is generated by plot.py at Sat, 01 Jul 2017 16:22:32 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 35.80 Mbit/s

95th percentile per-packet one-way delay: 47.829 ms

Loss rate: 1.02%

-- Flow 1:

Average throughput: 17.96 Mbit/s

95th percentile per-packet one-way delay: 47.845 ms

Loss rate: 1.19%

-- Flow 2:

Average throughput: 12.02 Mbit/s

95th percentile per-packet one-way delay: 47.943 ms

Loss rate: 0.68%

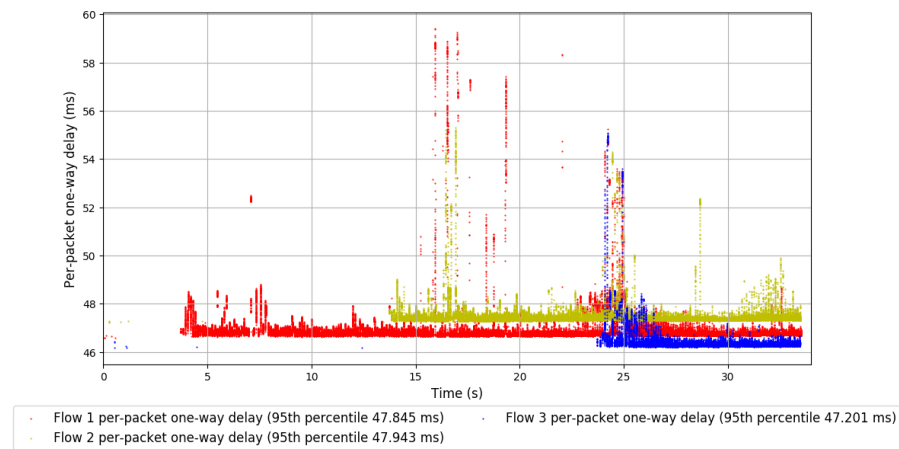
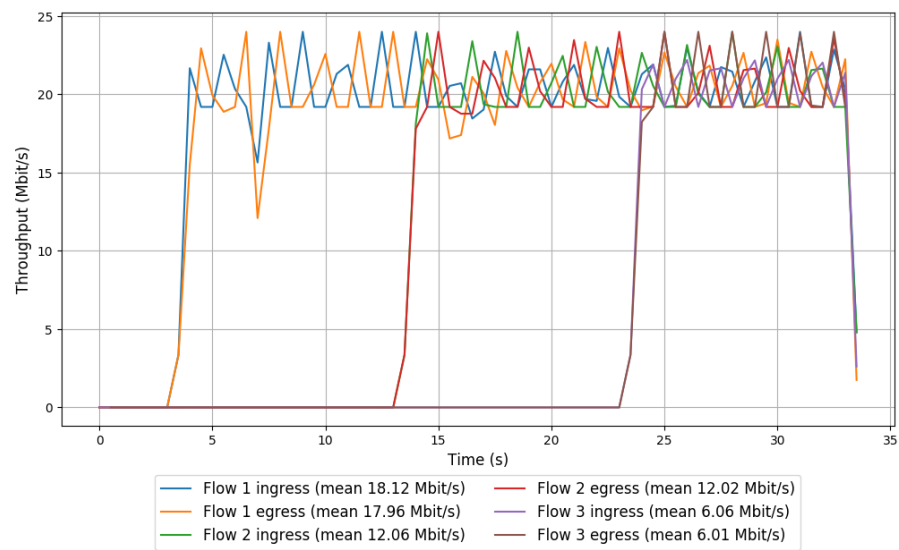
-- Flow 3:

Average throughput: 6.01 Mbit/s

95th percentile per-packet one-way delay: 47.201 ms

Loss rate: 1.20%

Run 1: Report of Saturator — Data Link



Run 2: Statistics of Saturator

Start at: Sat, 01 Jul 2017 12:32:52 +0000

End at: Sat, 01 Jul 2017 12:33:22 +0000

Local clock offset: 0.492 ms

Remote clock offset: -8.248 ms

Below is generated by plot.py at Sat, 01 Jul 2017 16:22:32 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 36.19 Mbit/s

95th percentile per-packet one-way delay: 50.363 ms

Loss rate: 0.91%

-- Flow 1:

Average throughput: 18.22 Mbit/s

95th percentile per-packet one-way delay: 50.650 ms

Loss rate: 0.93%

-- Flow 2:

Average throughput: 12.15 Mbit/s

95th percentile per-packet one-way delay: 49.344 ms

Loss rate: 0.74%

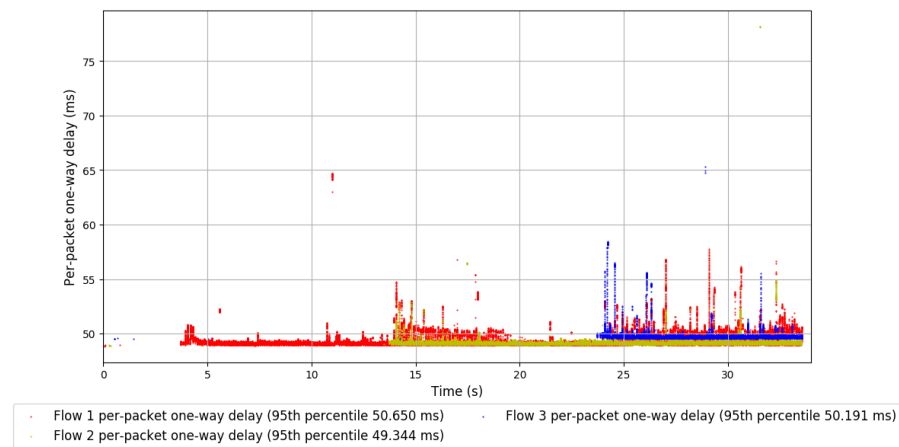
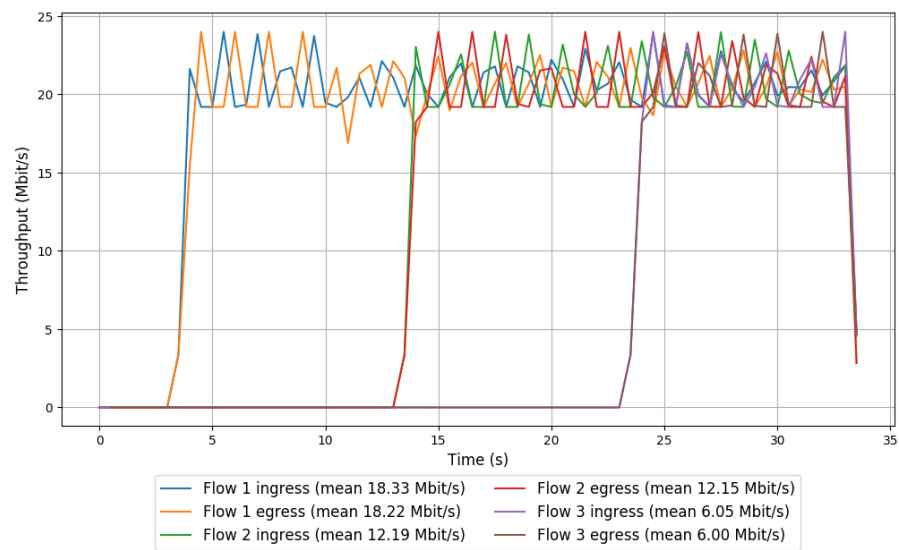
-- Flow 3:

Average throughput: 6.00 Mbit/s

95th percentile per-packet one-way delay: 50.191 ms

Loss rate: 1.19%

Run 2: Report of Saturator — Data Link



Run 3: Statistics of Saturator

Start at: Sat, 01 Jul 2017 12:51:40 +0000

End at: Sat, 01 Jul 2017 12:52:10 +0000

Local clock offset: 0.31 ms

Remote clock offset: -7.05 ms

Below is generated by plot.py at Sat, 01 Jul 2017 16:22:38 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 36.56 Mbit/s

95th percentile per-packet one-way delay: 51.784 ms

Loss rate: 0.64%

-- Flow 1:

Average throughput: 18.38 Mbit/s

95th percentile per-packet one-way delay: 51.627 ms

Loss rate: 0.51%

-- Flow 2:

Average throughput: 12.30 Mbit/s

95th percentile per-packet one-way delay: 51.790 ms

Loss rate: 0.56%

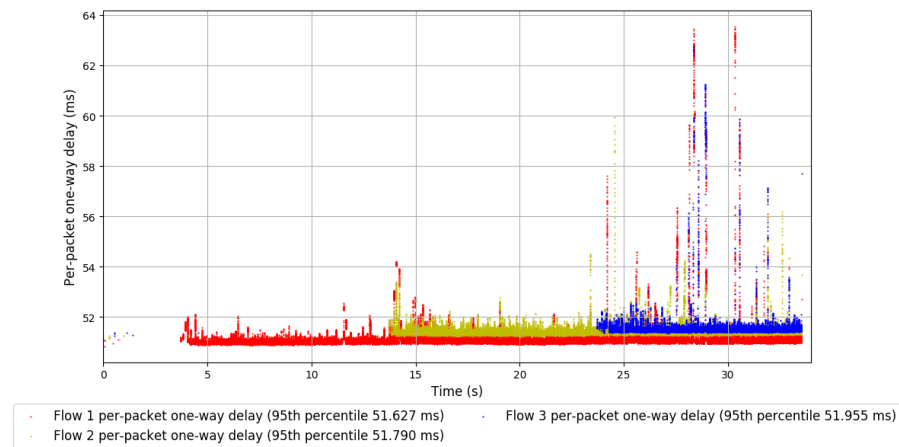
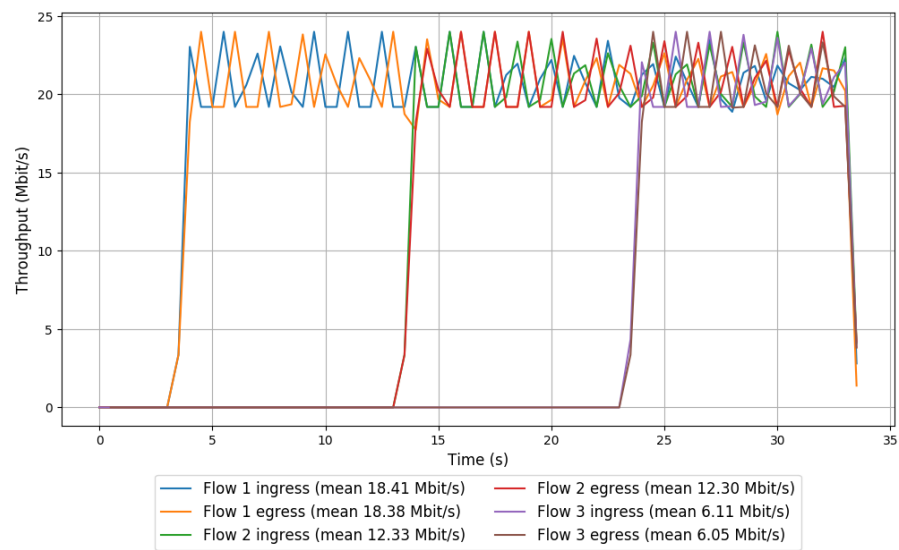
-- Flow 3:

Average throughput: 6.05 Mbit/s

95th percentile per-packet one-way delay: 51.955 ms

Loss rate: 1.19%

Run 3: Report of Saturator — Data Link



Run 4: Statistics of Saturator

Start at: Sat, 01 Jul 2017 13:10:15 +0000

End at: Sat, 01 Jul 2017 13:10:45 +0000

Local clock offset: 0.264 ms

Remote clock offset: -4.066 ms

Below is generated by plot.py at Sat, 01 Jul 2017 16:22:38 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 36.30 Mbit/s

95th percentile per-packet one-way delay: 54.980 ms

Loss rate: 0.70%

-- Flow 1:

Average throughput: 18.30 Mbit/s

95th percentile per-packet one-way delay: 55.131 ms

Loss rate: 0.46%

-- Flow 2:

Average throughput: 12.14 Mbit/s

95th percentile per-packet one-way delay: 54.529 ms

Loss rate: 0.74%

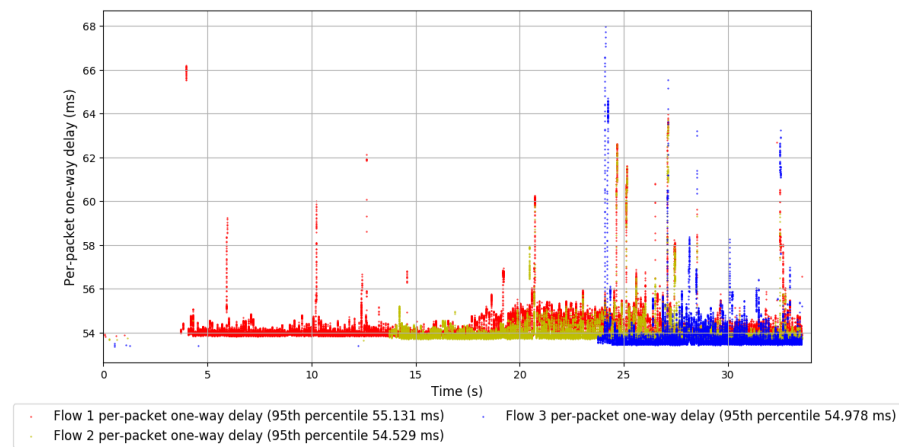
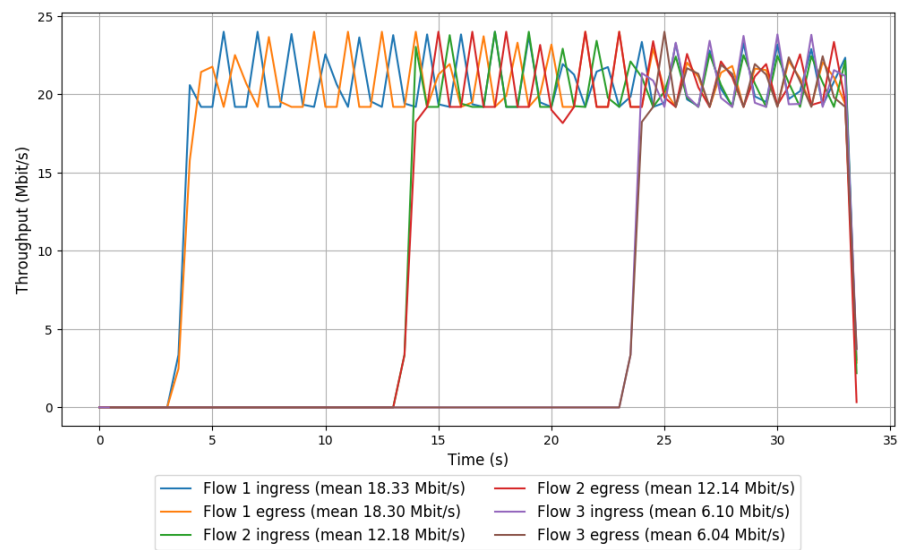
-- Flow 3:

Average throughput: 6.04 Mbit/s

95th percentile per-packet one-way delay: 54.978 ms

Loss rate: 1.35%

Run 4: Report of Saturator — Data Link



Run 5: Statistics of Saturator

Start at: Sat, 01 Jul 2017 13:29:02 +0000

End at: Sat, 01 Jul 2017 13:29:32 +0000

Local clock offset: 0.269 ms

Remote clock offset: -2.749 ms

Below is generated by plot.py at Sat, 01 Jul 2017 16:22:45 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 35.84 Mbit/s

95th percentile per-packet one-way delay: 56.370 ms

Loss rate: 1.13%

-- Flow 1:

Average throughput: 17.96 Mbit/s

95th percentile per-packet one-way delay: 56.409 ms

Loss rate: 1.11%

-- Flow 2:

Average throughput: 12.26 Mbit/s

95th percentile per-packet one-way delay: 56.486 ms

Loss rate: 0.76%

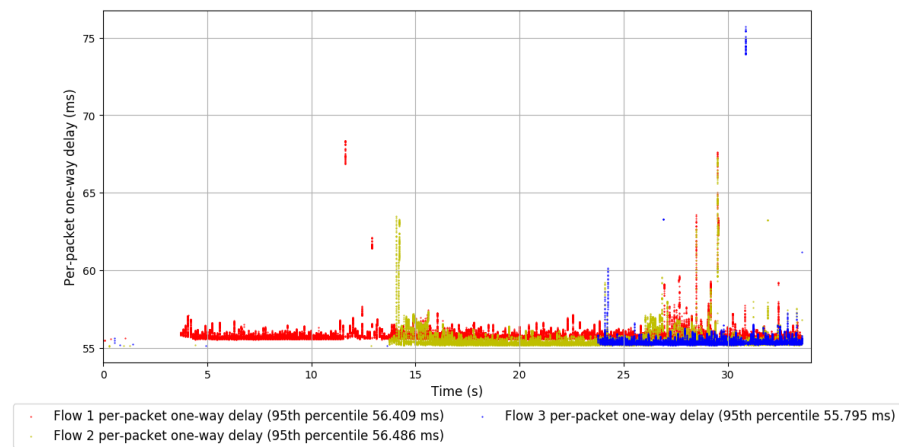
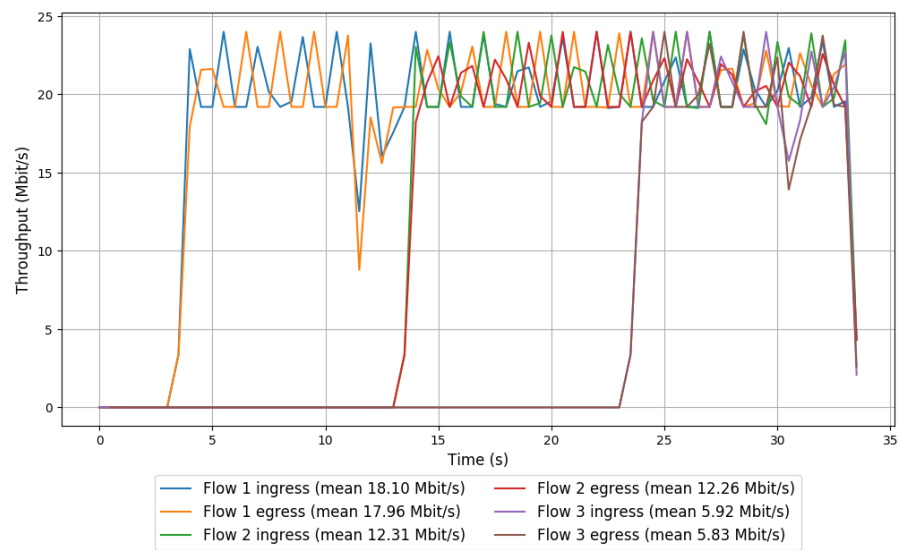
-- Flow 3:

Average throughput: 5.83 Mbit/s

95th percentile per-packet one-way delay: 55.795 ms

Loss rate: 1.97%

Run 5: Report of Saturator — Data Link



Run 6: Statistics of Saturator

Start at: Sat, 01 Jul 2017 13:47:32 +0000

End at: Sat, 01 Jul 2017 13:48:02 +0000

Local clock offset: 0.236 ms

Remote clock offset: -1.59 ms

Below is generated by plot.py at Sat, 01 Jul 2017 16:22:45 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 36.07 Mbit/s

95th percentile per-packet one-way delay: 57.153 ms

Loss rate: 0.82%

-- Flow 1:

Average throughput: 18.16 Mbit/s

95th percentile per-packet one-way delay: 57.196 ms

Loss rate: 0.60%

-- Flow 2:

Average throughput: 12.18 Mbit/s

95th percentile per-packet one-way delay: 56.994 ms

Loss rate: 0.63%

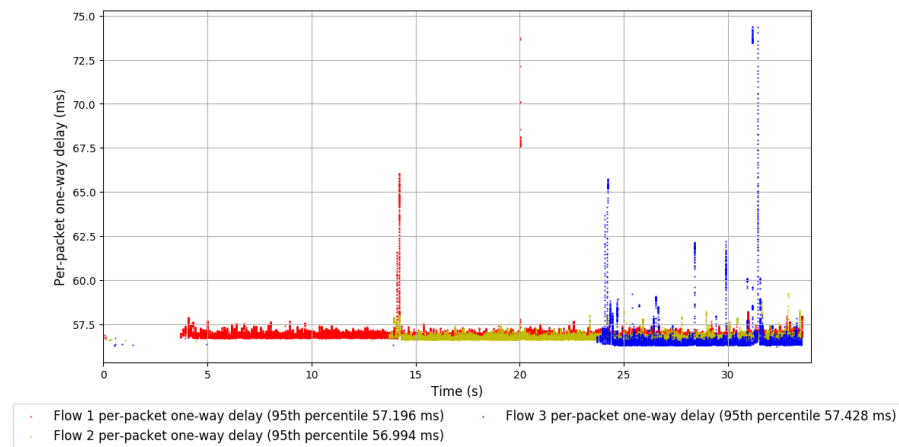
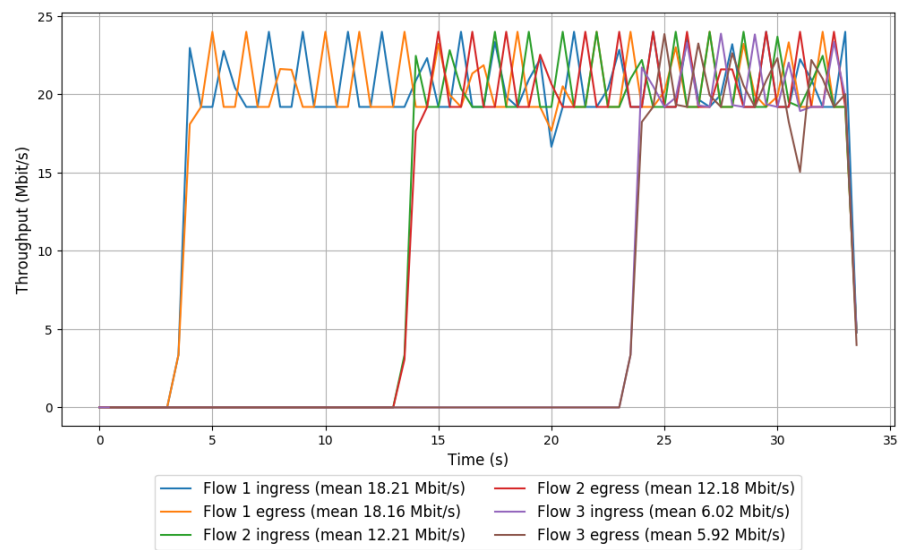
-- Flow 3:

Average throughput: 5.92 Mbit/s

95th percentile per-packet one-way delay: 57.428 ms

Loss rate: 1.93%

Run 6: Report of Saturator — Data Link



Run 7: Statistics of Saturator

Start at: Sat, 01 Jul 2017 14:06:02 +0000

End at: Sat, 01 Jul 2017 14:06:32 +0000

Local clock offset: 0.148 ms

Remote clock offset: -5.078 ms

Below is generated by plot.py at Sat, 01 Jul 2017 16:22:51 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 35.84 Mbit/s

95th percentile per-packet one-way delay: 53.751 ms

Loss rate: 1.10%

-- Flow 1:

Average throughput: 18.07 Mbit/s

95th percentile per-packet one-way delay: 53.553 ms

Loss rate: 0.93%

-- Flow 2:

Average throughput: 12.02 Mbit/s

95th percentile per-packet one-way delay: 53.668 ms

Loss rate: 0.95%

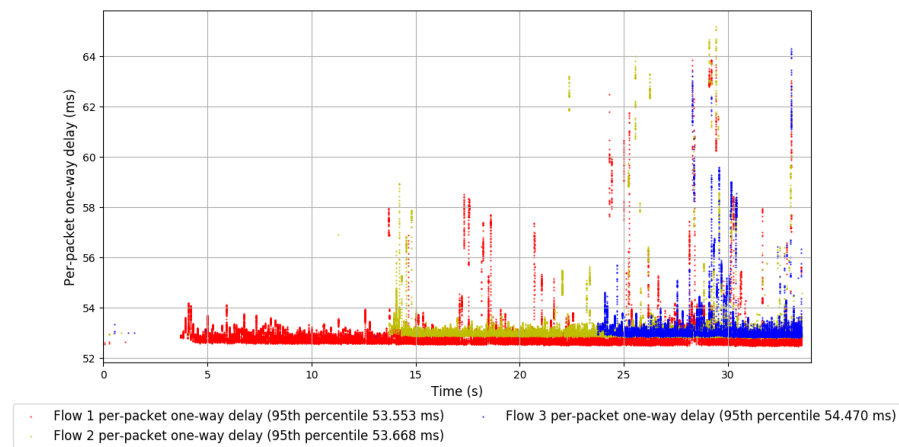
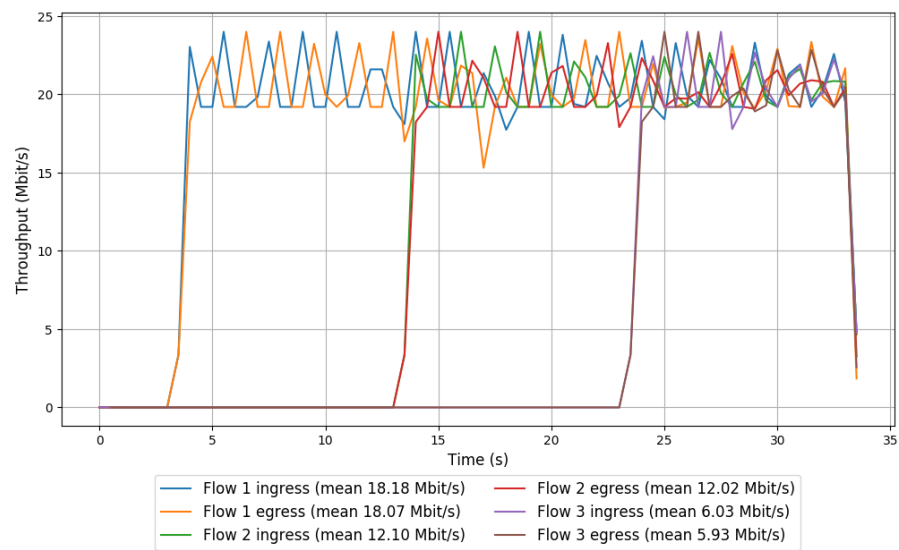
-- Flow 3:

Average throughput: 5.93 Mbit/s

95th percentile per-packet one-way delay: 54.470 ms

Loss rate: 1.91%

Run 7: Report of Saturator — Data Link



Run 8: Statistics of Saturator

Start at: Sat, 01 Jul 2017 14:24:41 +0000

End at: Sat, 01 Jul 2017 14:25:11 +0000

Local clock offset: 0.091 ms

Remote clock offset: -7.28 ms

Below is generated by plot.py at Sat, 01 Jul 2017 16:22:51 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 36.10 Mbit/s

95th percentile per-packet one-way delay: 51.386 ms

Loss rate: 0.86%

-- Flow 1:

Average throughput: 18.21 Mbit/s

95th percentile per-packet one-way delay: 51.613 ms

Loss rate: 0.84%

-- Flow 2:

Average throughput: 12.16 Mbit/s

95th percentile per-packet one-way delay: 50.859 ms

Loss rate: 0.71%

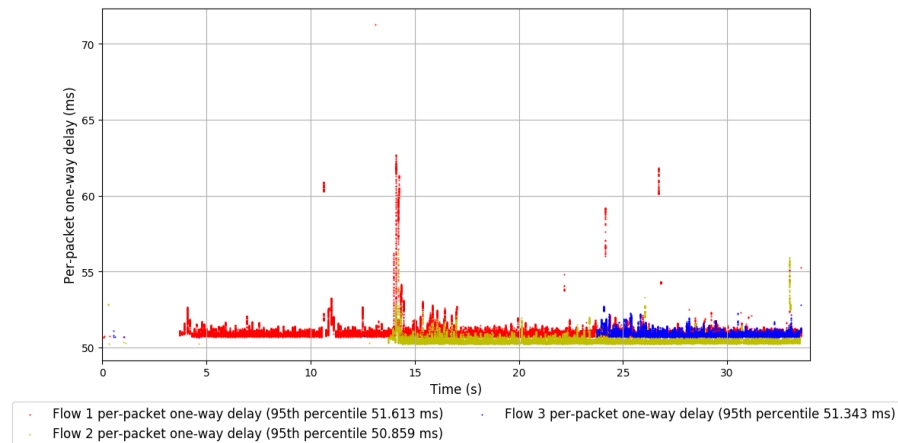
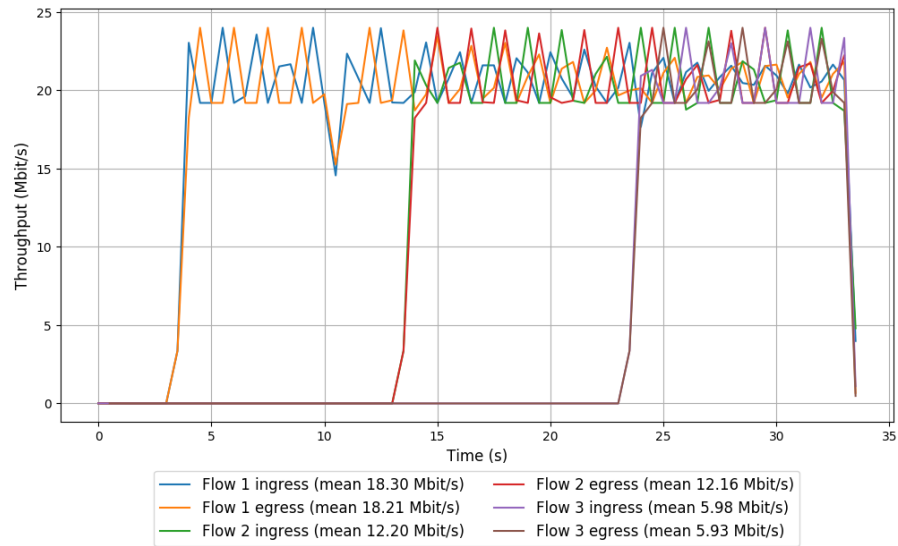
-- Flow 3:

Average throughput: 5.93 Mbit/s

95th percentile per-packet one-way delay: 51.343 ms

Loss rate: 1.20%

Run 8: Report of Saturator — Data Link



Run 9: Statistics of Saturator

Start at: Sat, 01 Jul 2017 14:43:13 +0000

End at: Sat, 01 Jul 2017 14:43:43 +0000

Local clock offset: 0.046 ms

Remote clock offset: -5.36 ms

Below is generated by plot.py at Sat, 01 Jul 2017 16:22:57 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 36.23 Mbit/s

95th percentile per-packet one-way delay: 53.476 ms

Loss rate: 0.76%

-- Flow 1:

Average throughput: 18.24 Mbit/s

95th percentile per-packet one-way delay: 53.681 ms

Loss rate: 0.73%

-- Flow 2:

Average throughput: 12.17 Mbit/s

95th percentile per-packet one-way delay: 52.920 ms

Loss rate: 0.61%

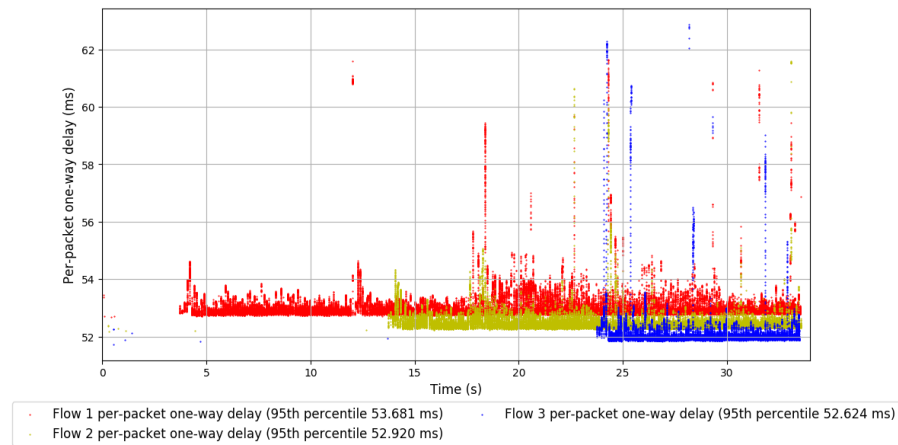
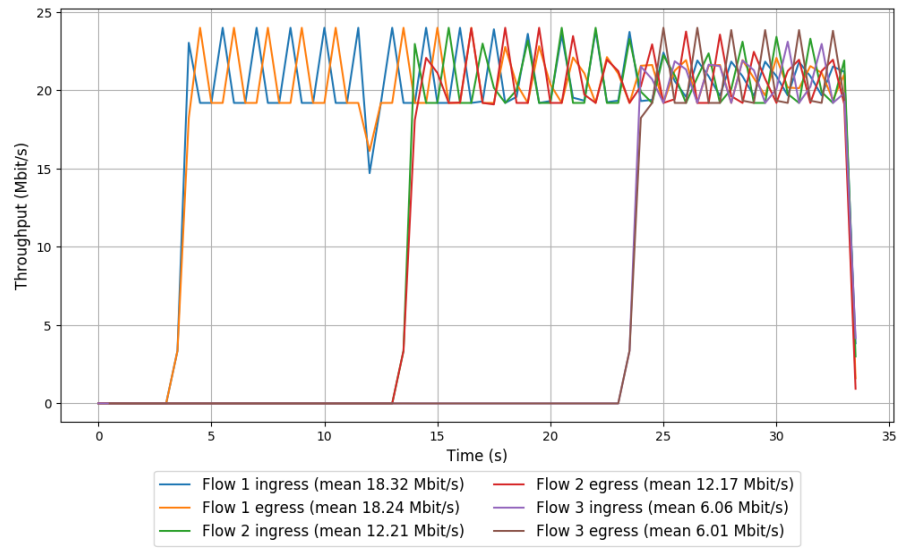
-- Flow 3:

Average throughput: 6.01 Mbit/s

95th percentile per-packet one-way delay: 52.624 ms

Loss rate: 1.20%

Run 9: Report of Saturator — Data Link



Run 10: Statistics of Saturator

Start at: Sat, 01 Jul 2017 15:01:42 +0000

End at: Sat, 01 Jul 2017 15:02:12 +0000

Local clock offset: 0.158 ms

Remote clock offset: -6.035 ms

Below is generated by plot.py at Sat, 01 Jul 2017 16:22:57 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 35.98 Mbit/s

95th percentile per-packet one-way delay: 52.790 ms

Loss rate: 0.85%

-- Flow 1:

Average throughput: 18.25 Mbit/s

95th percentile per-packet one-way delay: 52.609 ms

Loss rate: 0.57%

-- Flow 2:

Average throughput: 11.95 Mbit/s

95th percentile per-packet one-way delay: 52.906 ms

Loss rate: 0.90%

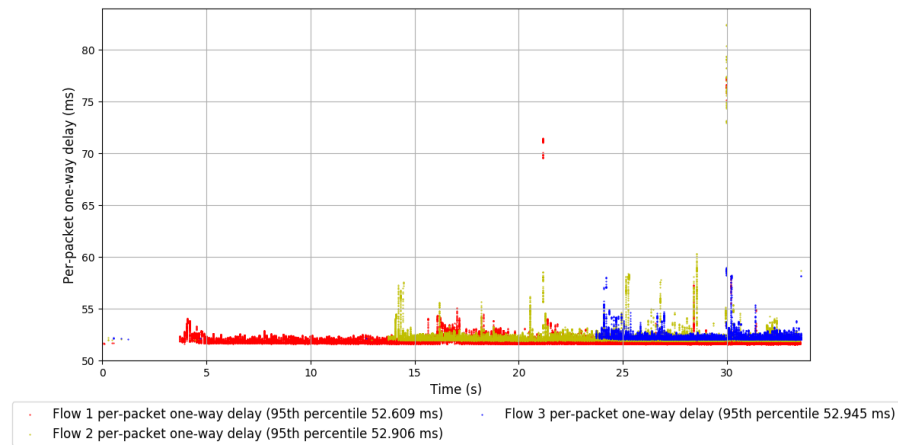
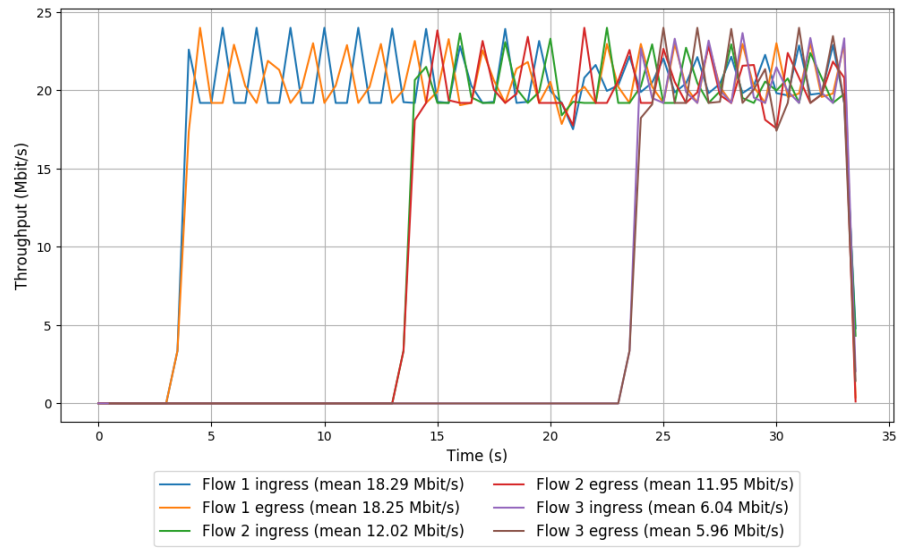
-- Flow 3:

Average throughput: 5.96 Mbit/s

95th percentile per-packet one-way delay: 52.945 ms

Loss rate: 1.64%

Run 10: Report of Saturator — Data Link



Run 1: Statistics of SCReAM

Start at: Sat, 01 Jul 2017 12:16:43 +0000

End at: Sat, 01 Jul 2017 12:17:13 +0000

Local clock offset: 0.491 ms

Remote clock offset: -10.391 ms

Below is generated by plot.py at Sat, 01 Jul 2017 16:22:59 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 47.262 ms

Loss rate: 0.59%

-- Flow 1:

Average throughput: 0.19 Mbit/s

95th percentile per-packet one-way delay: 46.716 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 0.13 Mbit/s

95th percentile per-packet one-way delay: 47.296 ms

Loss rate: 0.63%

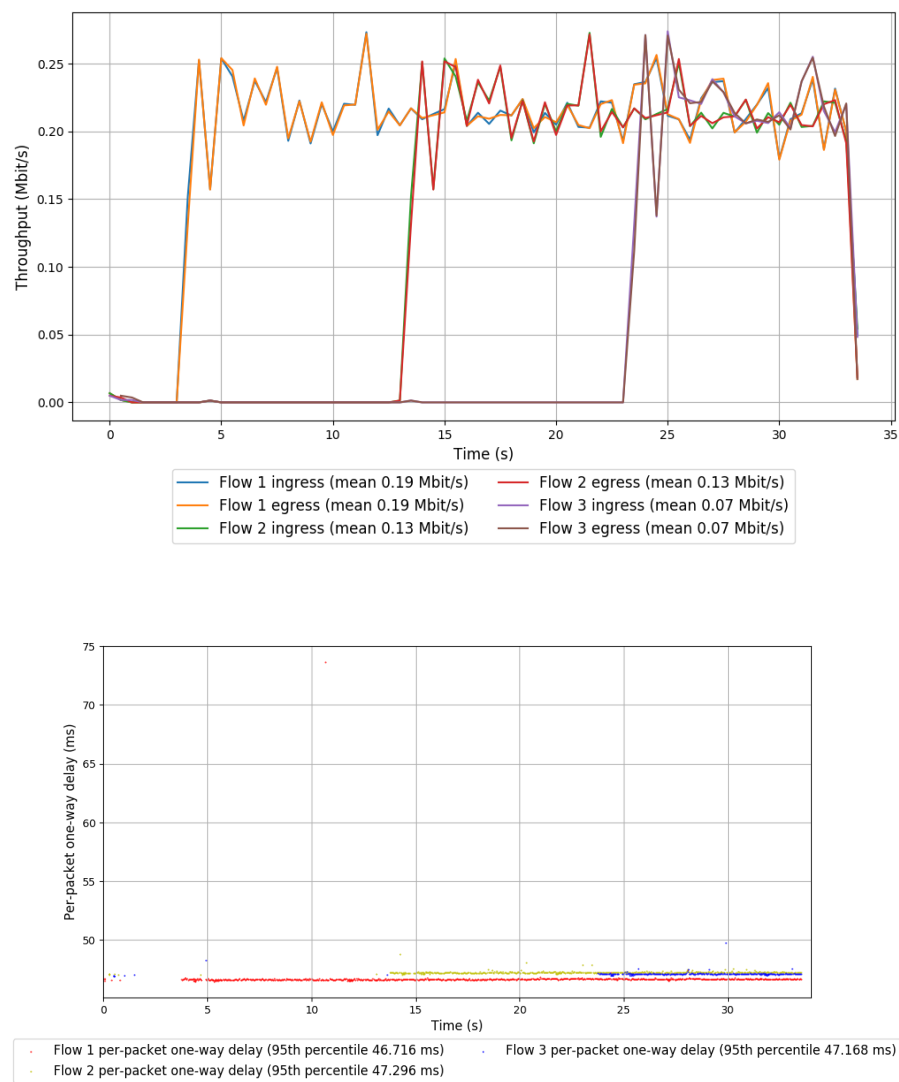
-- Flow 3:

Average throughput: 0.07 Mbit/s

95th percentile per-packet one-way delay: 47.168 ms

Loss rate: 1.10%

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SCReAM

Start at: Sat, 01 Jul 2017 12:35:23 +0000

End at: Sat, 01 Jul 2017 12:35:53 +0000

Local clock offset: 0.436 ms

Remote clock offset: -8.342 ms

Below is generated by plot.py at Sat, 01 Jul 2017 16:22:59 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 49.508 ms

Loss rate: 0.53%

-- Flow 1:

Average throughput: 0.19 Mbit/s

95th percentile per-packet one-way delay: 49.522 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 0.13 Mbit/s

95th percentile per-packet one-way delay: 49.036 ms

Loss rate: 0.63%

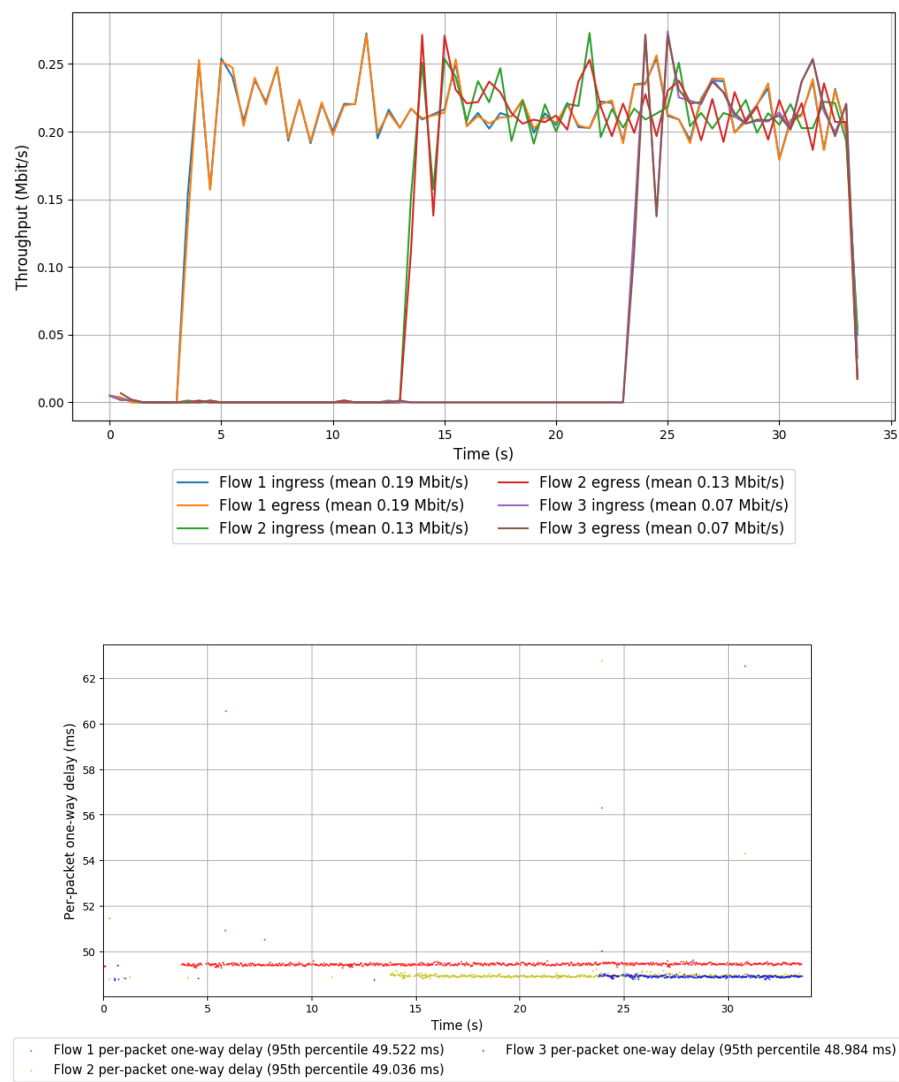
-- Flow 3:

Average throughput: 0.07 Mbit/s

95th percentile per-packet one-way delay: 48.984 ms

Loss rate: 0.75%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: Sat, 01 Jul 2017 12:54:08 +0000

End at: Sat, 01 Jul 2017 12:54:38 +0000

Local clock offset: 0.385 ms

Remote clock offset: -6.395 ms

Below is generated by plot.py at Sat, 01 Jul 2017 16:23:00 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 52.221 ms

Loss rate: 0.59%

-- Flow 1:

Average throughput: 0.19 Mbit/s

95th percentile per-packet one-way delay: 51.785 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 0.13 Mbit/s

95th percentile per-packet one-way delay: 52.246 ms

Loss rate: 0.63%

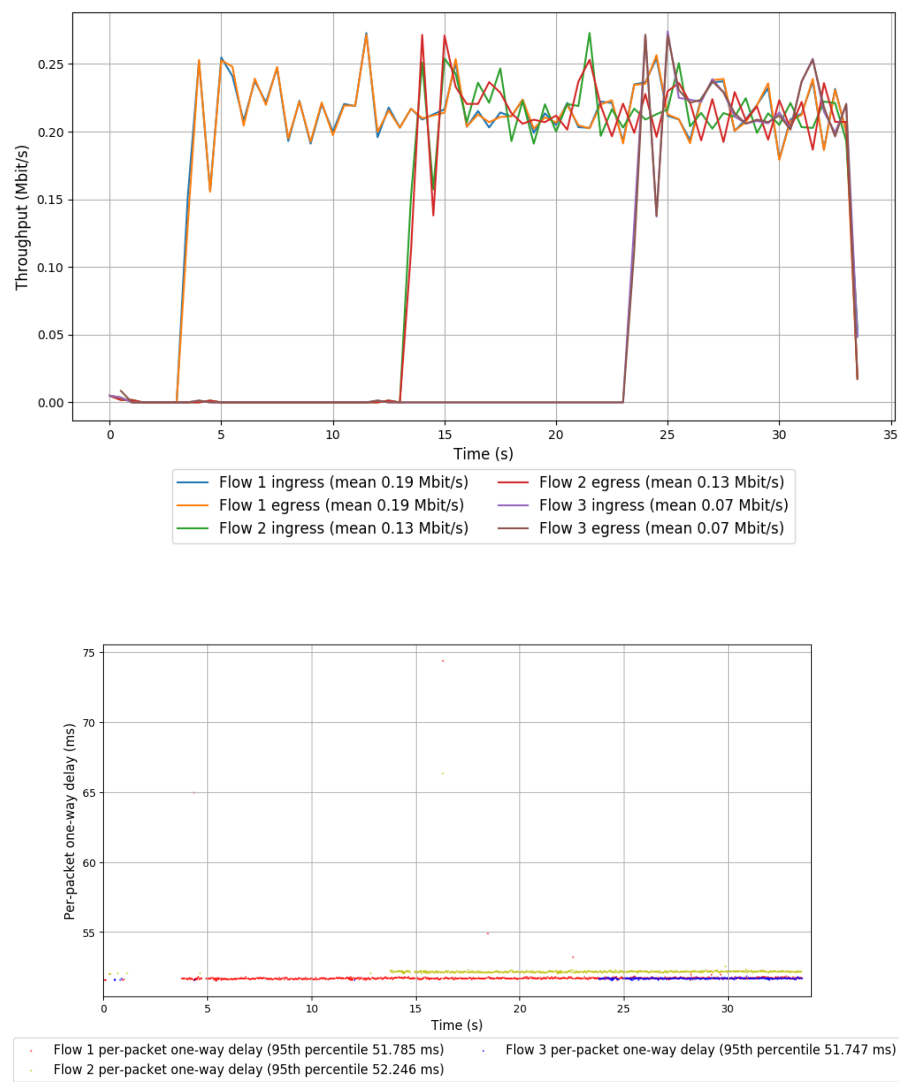
-- Flow 3:

Average throughput: 0.07 Mbit/s

95th percentile per-packet one-way delay: 51.747 ms

Loss rate: 1.10%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: Sat, 01 Jul 2017 13:12:43 +0000

End at: Sat, 01 Jul 2017 13:13:13 +0000

Local clock offset: 0.237 ms

Remote clock offset: -3.885 ms

Below is generated by plot.py at Sat, 01 Jul 2017 16:23:00 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 54.160 ms

Loss rate: 0.59%

-- Flow 1:

Average throughput: 0.19 Mbit/s

95th percentile per-packet one-way delay: 54.183 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 0.13 Mbit/s

95th percentile per-packet one-way delay: 53.201 ms

Loss rate: 0.63%

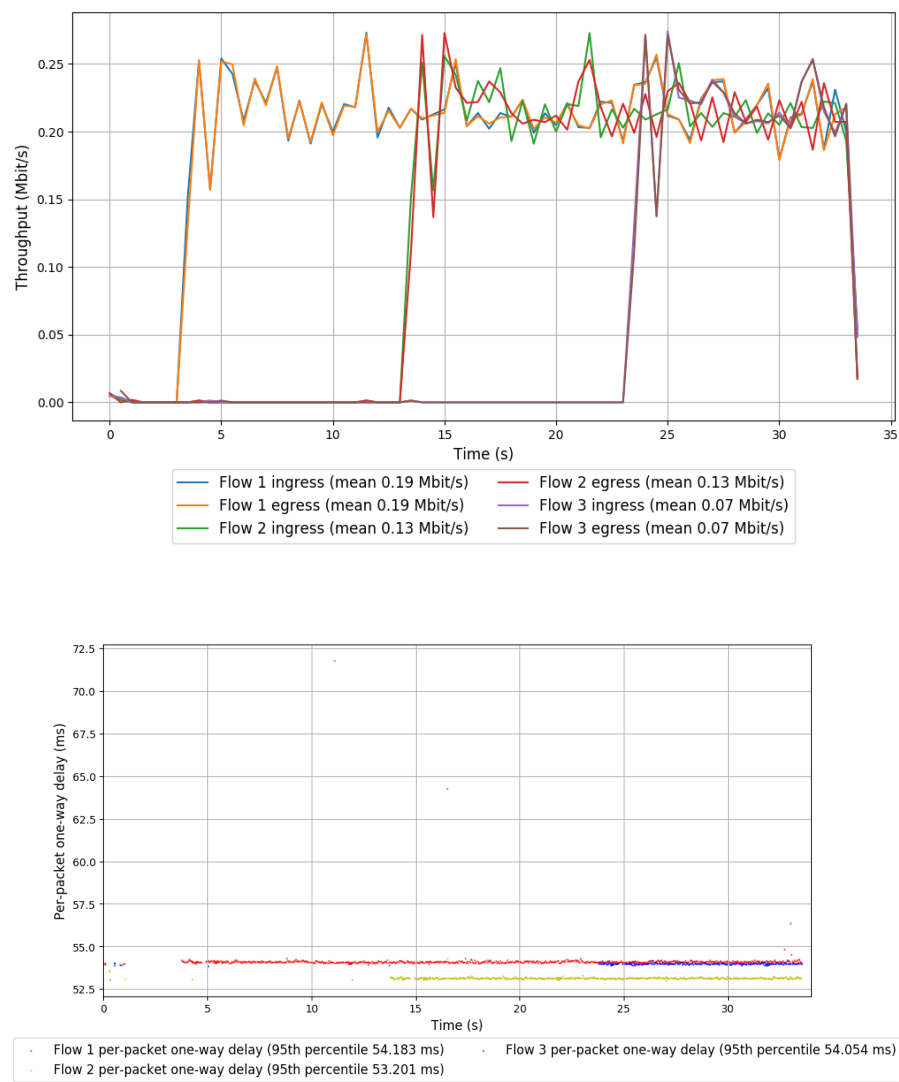
-- Flow 3:

Average throughput: 0.07 Mbit/s

95th percentile per-packet one-way delay: 54.054 ms

Loss rate: 1.10%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: Sat, 01 Jul 2017 13:31:23 +0000

End at: Sat, 01 Jul 2017 13:31:53 +0000

Local clock offset: 0.264 ms

Remote clock offset: -2.739 ms

Below is generated by plot.py at Sat, 01 Jul 2017 16:23:01 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 55.434 ms

Loss rate: 0.53%

-- Flow 1:

Average throughput: 0.19 Mbit/s

95th percentile per-packet one-way delay: 55.128 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 0.13 Mbit/s

95th percentile per-packet one-way delay: 55.471 ms

Loss rate: 0.63%

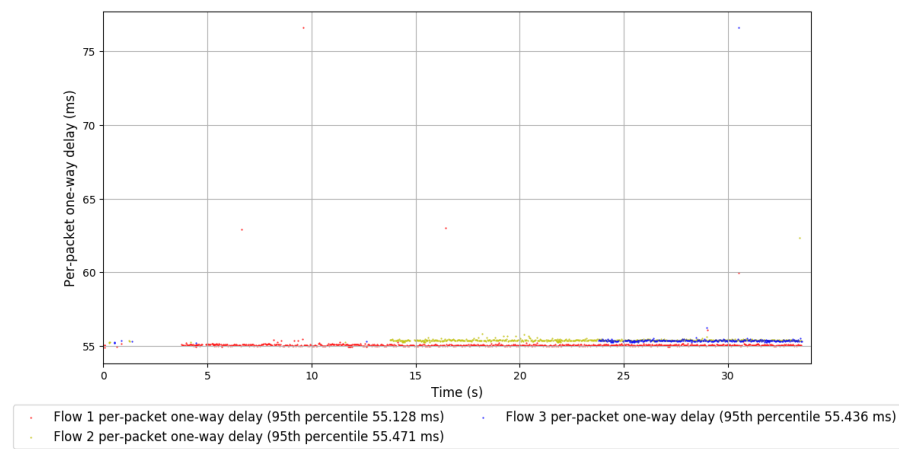
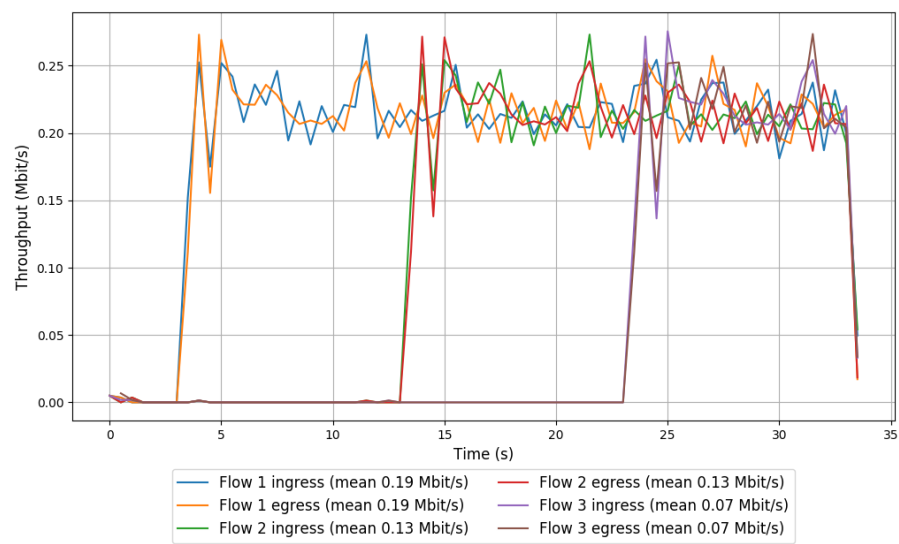
-- Flow 3:

Average throughput: 0.07 Mbit/s

95th percentile per-packet one-way delay: 55.436 ms

Loss rate: 0.76%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: Sat, 01 Jul 2017 13:50:00 +0000

End at: Sat, 01 Jul 2017 13:50:30 +0000

Local clock offset: 0.165 ms

Remote clock offset: -1.293 ms

Below is generated by plot.py at Sat, 01 Jul 2017 16:23:02 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 56.709 ms

Loss rate: 0.59%

-- Flow 1:

Average throughput: 0.19 Mbit/s

95th percentile per-packet one-way delay: 56.493 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 0.13 Mbit/s

95th percentile per-packet one-way delay: 56.787 ms

Loss rate: 0.63%

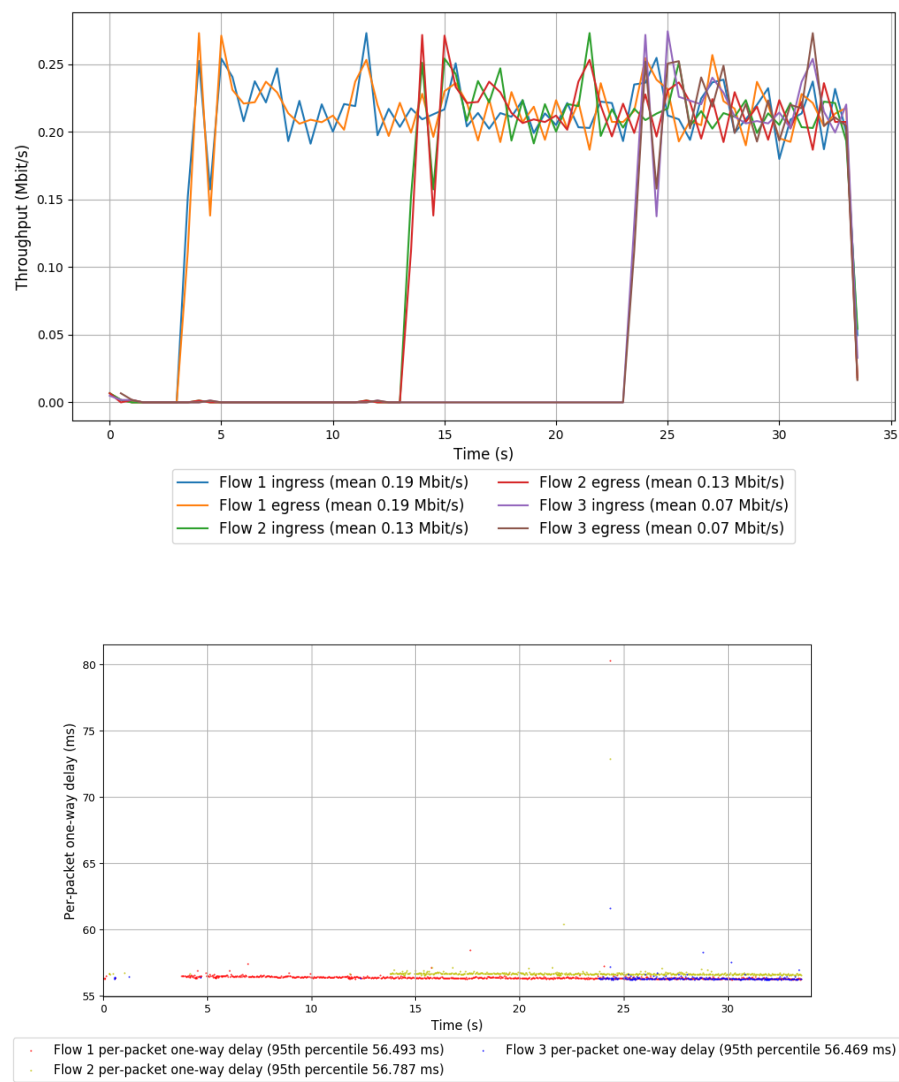
-- Flow 3:

Average throughput: 0.07 Mbit/s

95th percentile per-packet one-way delay: 56.469 ms

Loss rate: 1.15%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: Sat, 01 Jul 2017 14:08:32 +0000

End at: Sat, 01 Jul 2017 14:09:02 +0000

Local clock offset: 0.195 ms

Remote clock offset: -5.454 ms

Below is generated by plot.py at Sat, 01 Jul 2017 16:23:03 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 52.993 ms

Loss rate: 0.53%

-- Flow 1:

Average throughput: 0.19 Mbit/s

95th percentile per-packet one-way delay: 53.024 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 0.13 Mbit/s

95th percentile per-packet one-way delay: 52.686 ms

Loss rate: 0.63%

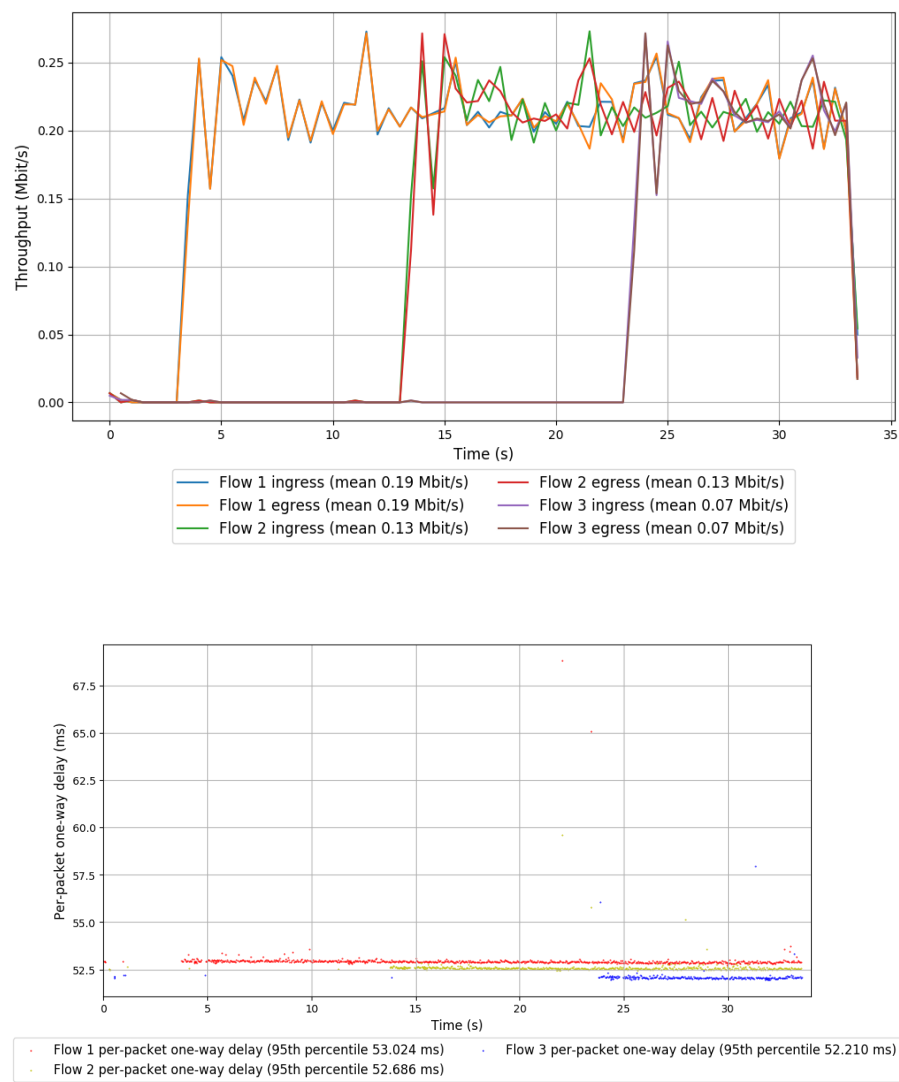
-- Flow 3:

Average throughput: 0.07 Mbit/s

95th percentile per-packet one-way delay: 52.210 ms

Loss rate: 0.75%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: Sat, 01 Jul 2017 14:27:11 +0000

End at: Sat, 01 Jul 2017 14:27:41 +0000

Local clock offset: 0.161 ms

Remote clock offset: -7.141 ms

Below is generated by plot.py at Sat, 01 Jul 2017 16:23:03 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 50.990 ms

Loss rate: 0.59%

-- Flow 1:

Average throughput: 0.19 Mbit/s

95th percentile per-packet one-way delay: 50.767 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 0.13 Mbit/s

95th percentile per-packet one-way delay: 51.048 ms

Loss rate: 0.63%

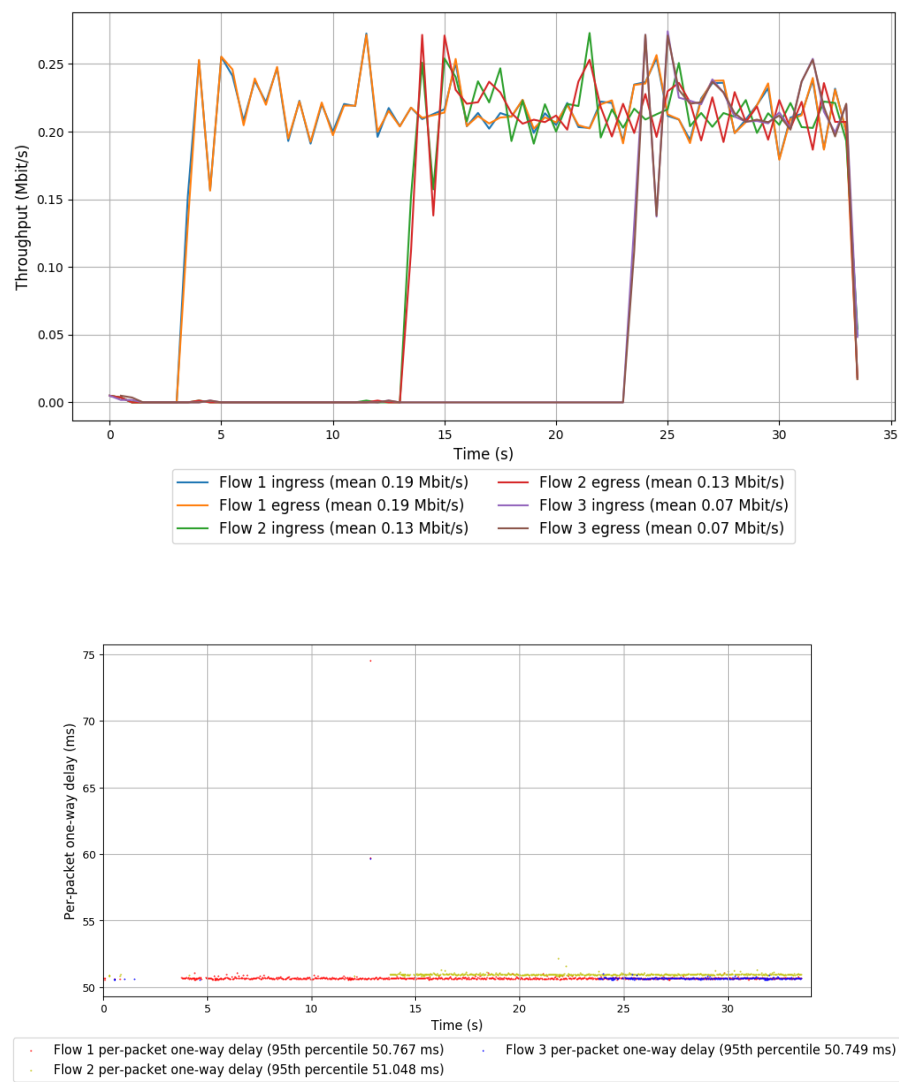
-- Flow 3:

Average throughput: 0.07 Mbit/s

95th percentile per-packet one-way delay: 50.749 ms

Loss rate: 1.10%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: Sat, 01 Jul 2017 14:45:43 +0000

End at: Sat, 01 Jul 2017 14:46:13 +0000

Local clock offset: 0.149 ms

Remote clock offset: -4.807 ms

Below is generated by plot.py at Sat, 01 Jul 2017 16:23:04 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 53.488 ms

Loss rate: 0.59%

-- Flow 1:

Average throughput: 0.19 Mbit/s

95th percentile per-packet one-way delay: 53.526 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 0.13 Mbit/s

95th percentile per-packet one-way delay: 52.854 ms

Loss rate: 0.63%

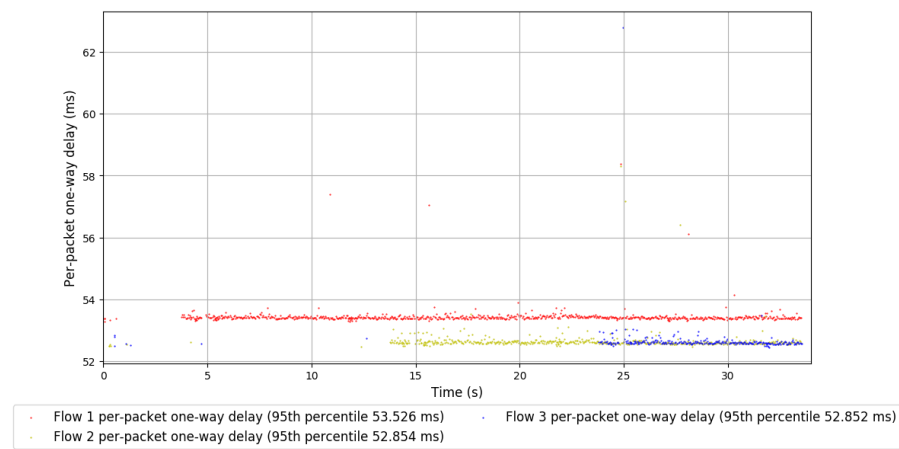
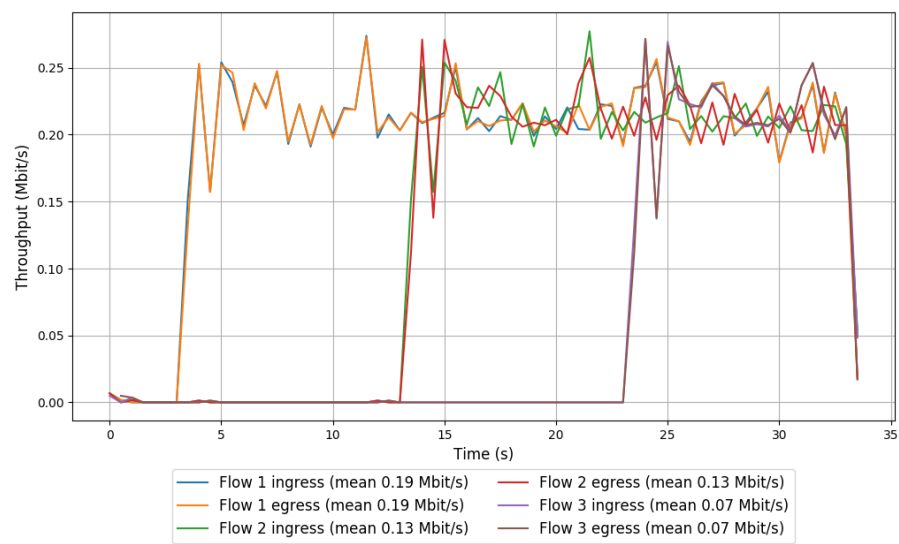
-- Flow 3:

Average throughput: 0.07 Mbit/s

95th percentile per-packet one-way delay: 52.852 ms

Loss rate: 1.10%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SCReAM

Start at: Sat, 01 Jul 2017 15:04:06 +0000

End at: Sat, 01 Jul 2017 15:04:36 +0000

Local clock offset: 0.136 ms

Remote clock offset: -6.457 ms

Below is generated by plot.py at Sat, 01 Jul 2017 16:23:05 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 51.755 ms

Loss rate: 0.59%

-- Flow 1:

Average throughput: 0.19 Mbit/s

95th percentile per-packet one-way delay: 50.927 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 0.13 Mbit/s

95th percentile per-packet one-way delay: 51.338 ms

Loss rate: 0.63%

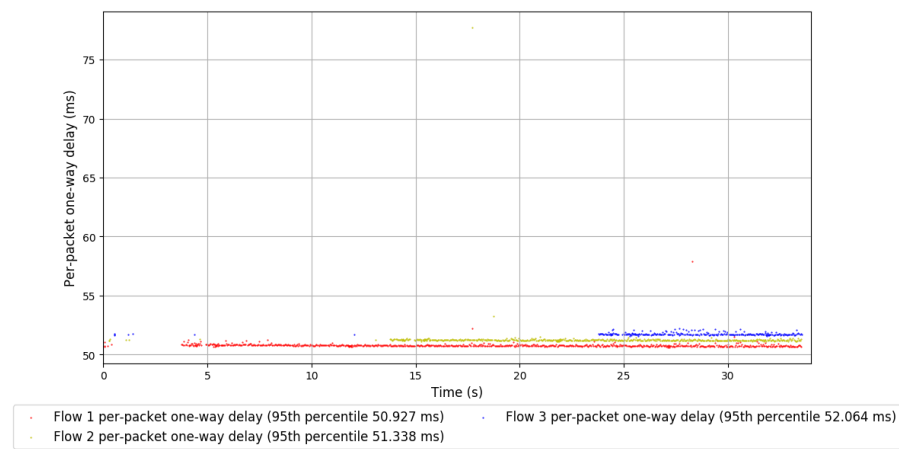
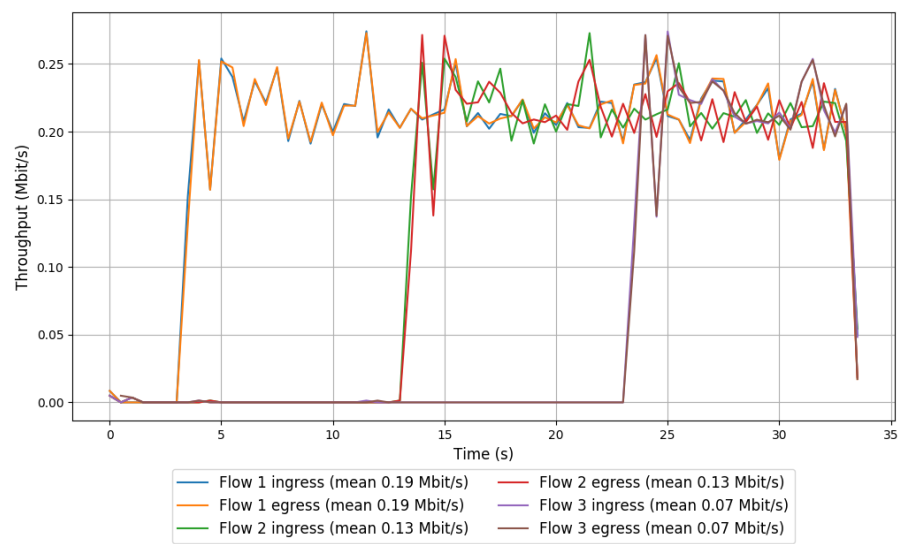
-- Flow 3:

Average throughput: 0.07 Mbit/s

95th percentile per-packet one-way delay: 52.064 ms

Loss rate: 1.10%

Run 10: Report of SReAM — Data Link



Run 1: Statistics of Sprout

Start at: Sat, 01 Jul 2017 12:20:27 +0000

End at: Sat, 01 Jul 2017 12:20:57 +0000

Local clock offset: 0.42 ms

Remote clock offset: -10.135 ms

Below is generated by plot.py at Sat, 01 Jul 2017 16:23:07 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 12.91 Mbit/s

95th percentile per-packet one-way delay: 48.666 ms

Loss rate: 0.68%

-- Flow 1:

Average throughput: 6.70 Mbit/s

95th percentile per-packet one-way delay: 48.202 ms

Loss rate: 0.44%

-- Flow 2:

Average throughput: 4.22 Mbit/s

95th percentile per-packet one-way delay: 48.772 ms

Loss rate: 0.74%

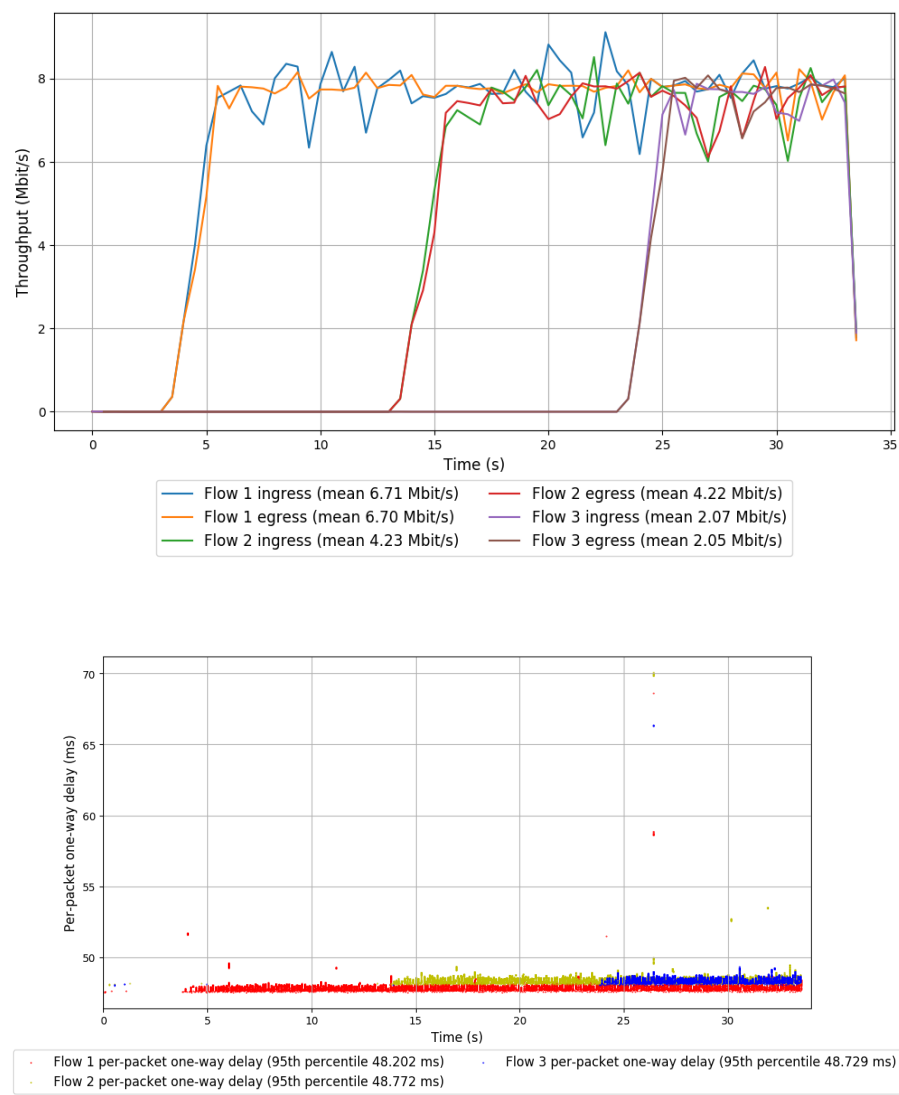
-- Flow 3:

Average throughput: 2.05 Mbit/s

95th percentile per-packet one-way delay: 48.729 ms

Loss rate: 1.38%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: Sat, 01 Jul 2017 12:39:13 +0000

End at: Sat, 01 Jul 2017 12:39:43 +0000

Local clock offset: 0.443 ms

Remote clock offset: -8.085 ms

Below is generated by plot.py at Sat, 01 Jul 2017 16:23:08 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 12.57 Mbit/s

95th percentile per-packet one-way delay: 50.349 ms

Loss rate: 0.62%

-- Flow 1:

Average throughput: 6.43 Mbit/s

95th percentile per-packet one-way delay: 50.476 ms

Loss rate: 0.36%

-- Flow 2:

Average throughput: 4.28 Mbit/s

95th percentile per-packet one-way delay: 49.548 ms

Loss rate: 0.59%

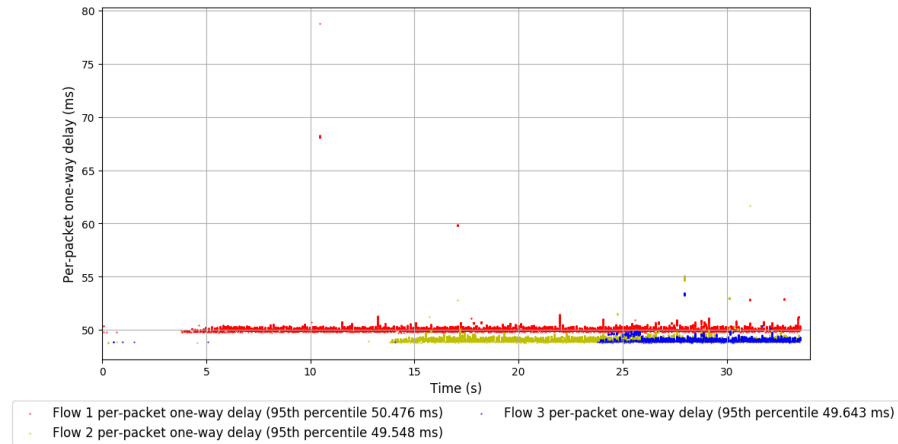
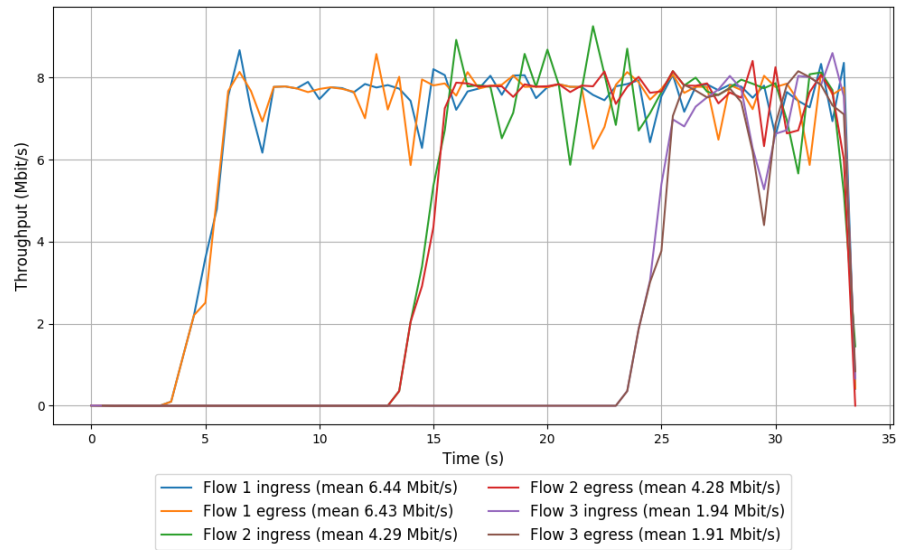
-- Flow 3:

Average throughput: 1.91 Mbit/s

95th percentile per-packet one-way delay: 49.643 ms

Loss rate: 1.54%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: Sat, 01 Jul 2017 12:57:50 +0000

End at: Sat, 01 Jul 2017 12:58:20 +0000

Local clock offset: 0.279 ms

Remote clock offset: -5.921 ms

Below is generated by plot.py at Sat, 01 Jul 2017 16:23:10 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 12.72 Mbit/s

95th percentile per-packet one-way delay: 52.750 ms

Loss rate: 0.61%

-- Flow 1:

Average throughput: 6.44 Mbit/s

95th percentile per-packet one-way delay: 52.473 ms

Loss rate: 0.40%

-- Flow 2:

Average throughput: 4.25 Mbit/s

95th percentile per-packet one-way delay: 52.889 ms

Loss rate: 0.60%

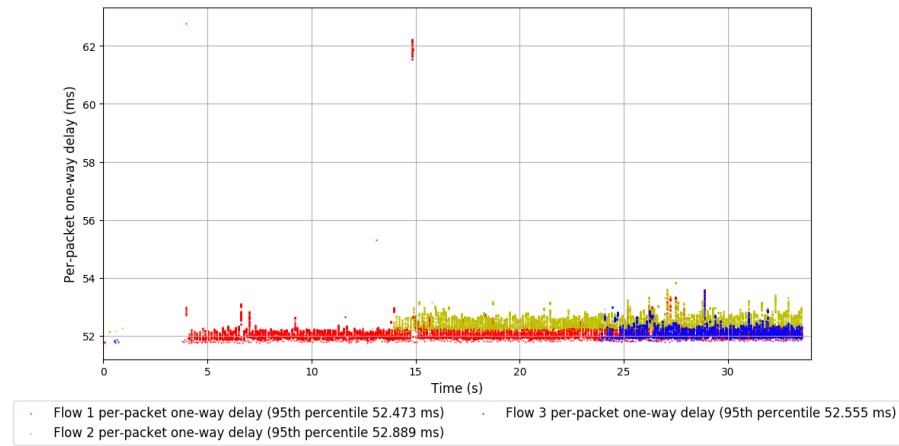
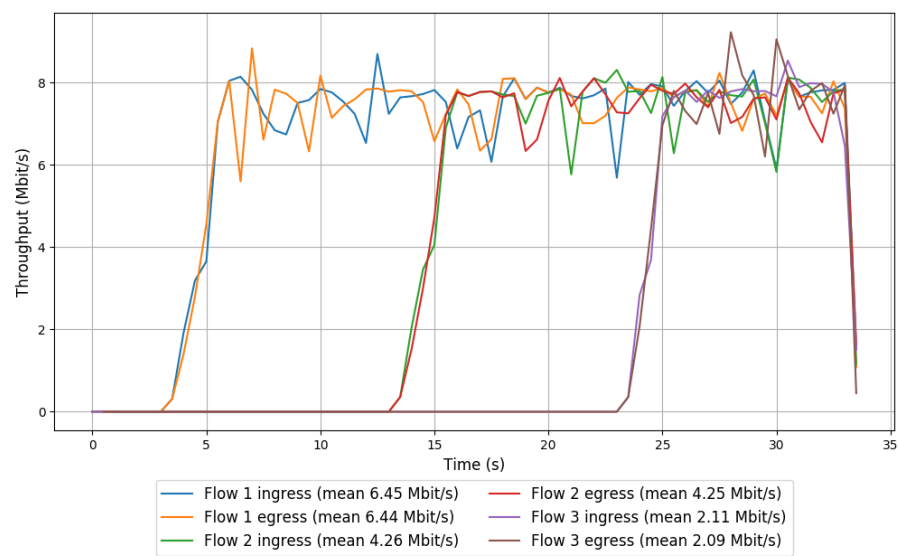
-- Flow 3:

Average throughput: 2.09 Mbit/s

95th percentile per-packet one-way delay: 52.555 ms

Loss rate: 1.26%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: Sat, 01 Jul 2017 13:16:26 +0000

End at: Sat, 01 Jul 2017 13:16:56 +0000

Local clock offset: 0.236 ms

Remote clock offset: -3.695 ms

Below is generated by plot.py at Sat, 01 Jul 2017 16:23:11 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 12.50 Mbit/s

95th percentile per-packet one-way delay: 54.674 ms

Loss rate: 0.85%

-- Flow 1:

Average throughput: 6.47 Mbit/s

95th percentile per-packet one-way delay: 54.253 ms

Loss rate: 0.45%

-- Flow 2:

Average throughput: 4.17 Mbit/s

95th percentile per-packet one-way delay: 54.632 ms

Loss rate: 0.66%

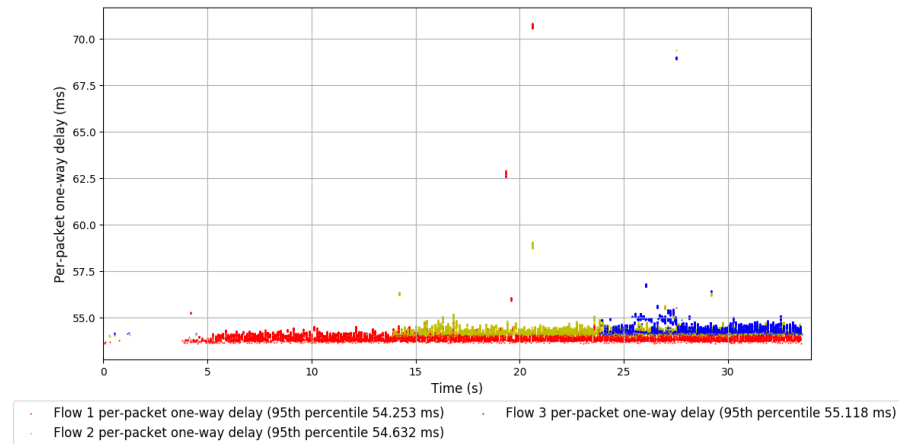
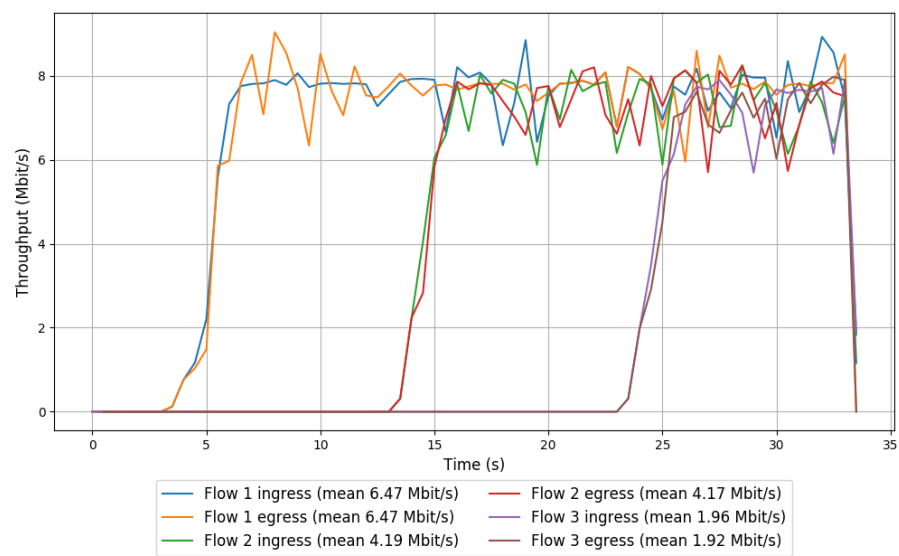
-- Flow 3:

Average throughput: 1.92 Mbit/s

95th percentile per-packet one-way delay: 55.118 ms

Loss rate: 2.62%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: Sat, 01 Jul 2017 13:35:14 +0000

End at: Sat, 01 Jul 2017 13:35:44 +0000

Local clock offset: 0.254 ms

Remote clock offset: -2.465 ms

Below is generated by plot.py at Sat, 01 Jul 2017 16:23:13 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 13.03 Mbit/s

95th percentile per-packet one-way delay: 56.291 ms

Loss rate: 0.52%

-- Flow 1:

Average throughput: 6.69 Mbit/s

95th percentile per-packet one-way delay: 55.951 ms

Loss rate: 0.42%

-- Flow 2:

Average throughput: 4.32 Mbit/s

95th percentile per-packet one-way delay: 56.402 ms

Loss rate: 0.48%

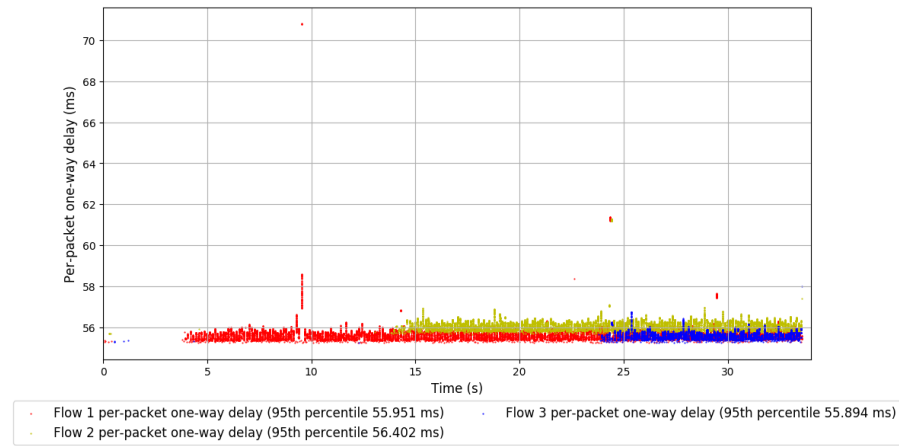
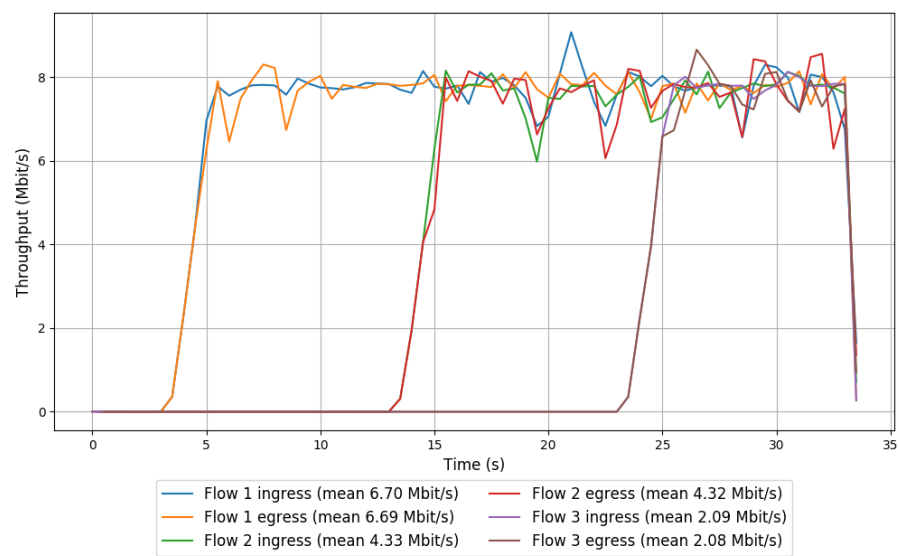
-- Flow 3:

Average throughput: 2.08 Mbit/s

95th percentile per-packet one-way delay: 55.894 ms

Loss rate: 0.90%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: Sat, 01 Jul 2017 13:53:42 +0000

End at: Sat, 01 Jul 2017 13:54:12 +0000

Local clock offset: 0.212 ms

Remote clock offset: -2.568 ms

Below is generated by plot.py at Sat, 01 Jul 2017 16:23:14 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 12.71 Mbit/s

95th percentile per-packet one-way delay: 56.247 ms

Loss rate: 0.75%

-- Flow 1:

Average throughput: 6.61 Mbit/s

95th percentile per-packet one-way delay: 55.960 ms

Loss rate: 0.47%

-- Flow 2:

Average throughput: 4.19 Mbit/s

95th percentile per-packet one-way delay: 56.435 ms

Loss rate: 0.76%

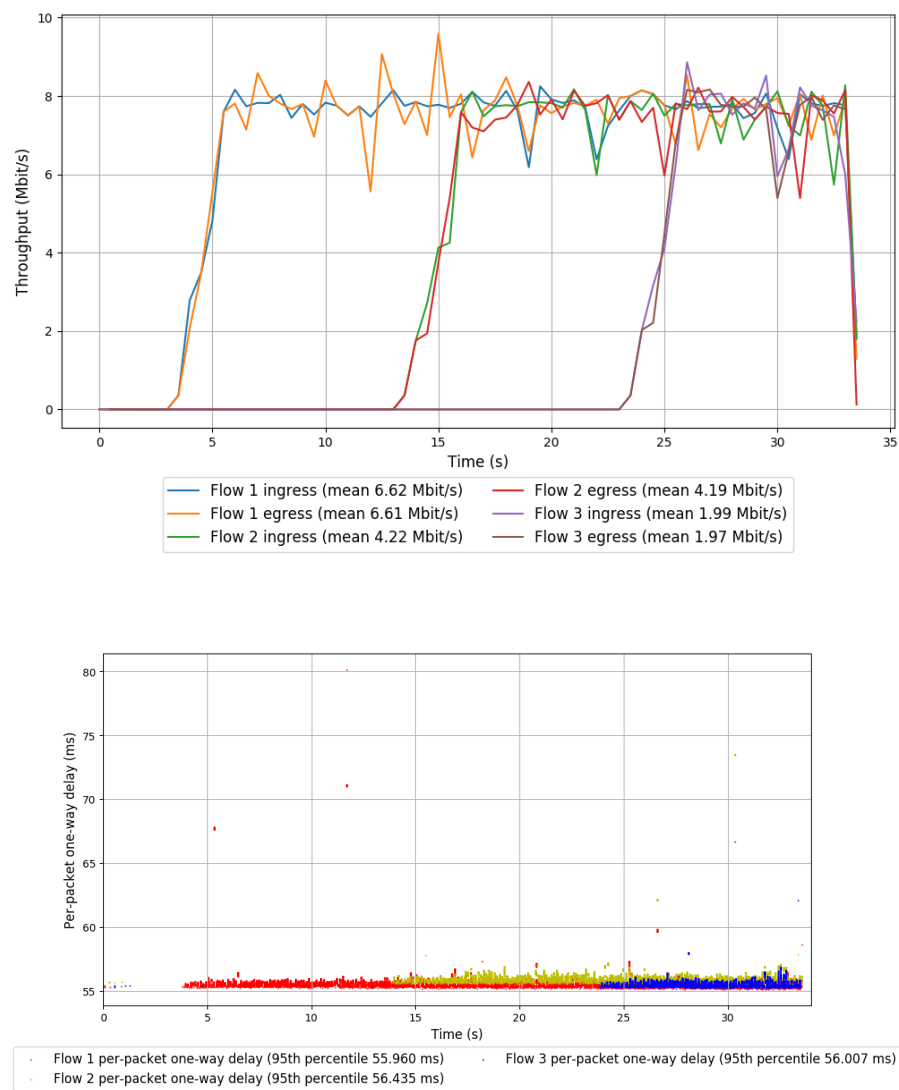
-- Flow 3:

Average throughput: 1.97 Mbit/s

95th percentile per-packet one-way delay: 56.007 ms

Loss rate: 1.69%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: Sat, 01 Jul 2017 14:12:22 +0000

End at: Sat, 01 Jul 2017 14:12:52 +0000

Local clock offset: 0.147 ms

Remote clock offset: -6.227 ms

Below is generated by plot.py at Sat, 01 Jul 2017 16:23:16 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 12.69 Mbit/s

95th percentile per-packet one-way delay: 52.623 ms

Loss rate: 0.60%

-- Flow 1:

Average throughput: 6.41 Mbit/s

95th percentile per-packet one-way delay: 52.710 ms

Loss rate: 0.33%

-- Flow 2:

Average throughput: 4.38 Mbit/s

95th percentile per-packet one-way delay: 51.939 ms

Loss rate: 0.62%

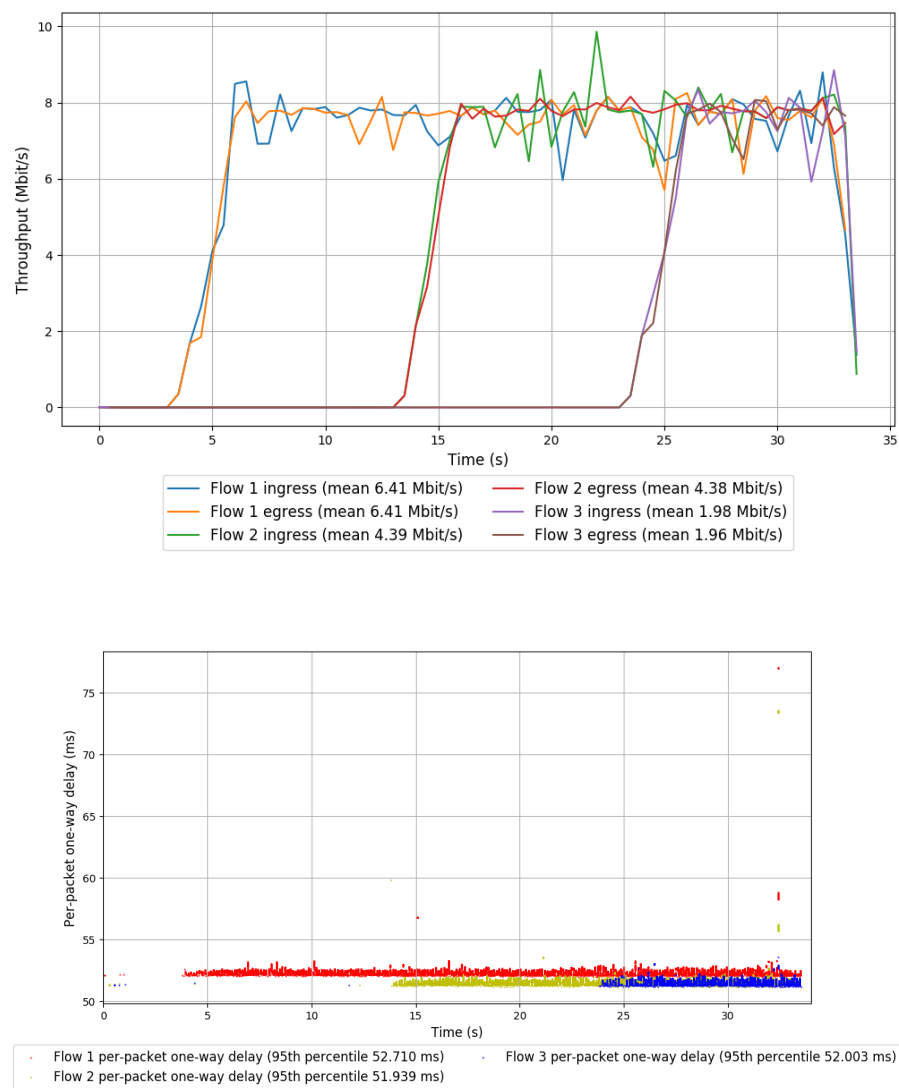
-- Flow 3:

Average throughput: 1.96 Mbit/s

95th percentile per-packet one-way delay: 52.003 ms

Loss rate: 1.46%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: Sat, 01 Jul 2017 14:30:54 +0000

End at: Sat, 01 Jul 2017 14:31:24 +0000

Local clock offset: 0.07 ms

Remote clock offset: -6.937 ms

Below is generated by plot.py at Sat, 01 Jul 2017 16:23:17 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 12.73 Mbit/s

95th percentile per-packet one-way delay: 51.917 ms

Loss rate: 0.79%

-- Flow 1:

Average throughput: 6.60 Mbit/s

95th percentile per-packet one-way delay: 51.822 ms

Loss rate: 0.58%

-- Flow 2:

Average throughput: 4.27 Mbit/s

95th percentile per-packet one-way delay: 51.866 ms

Loss rate: 0.73%

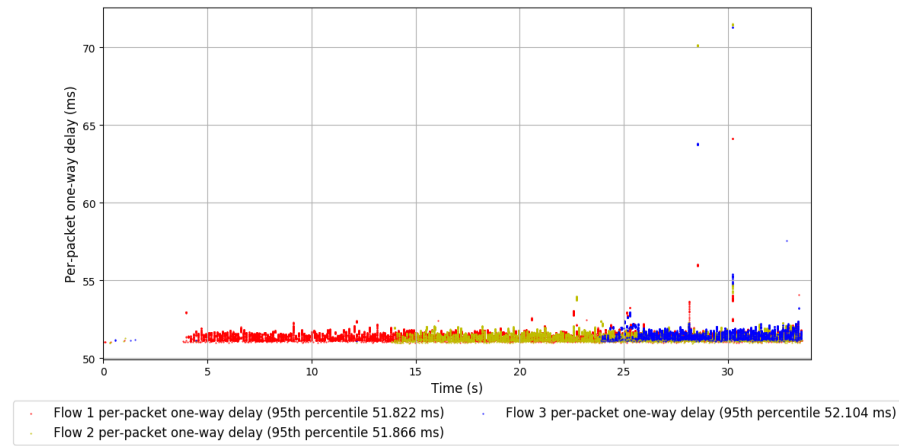
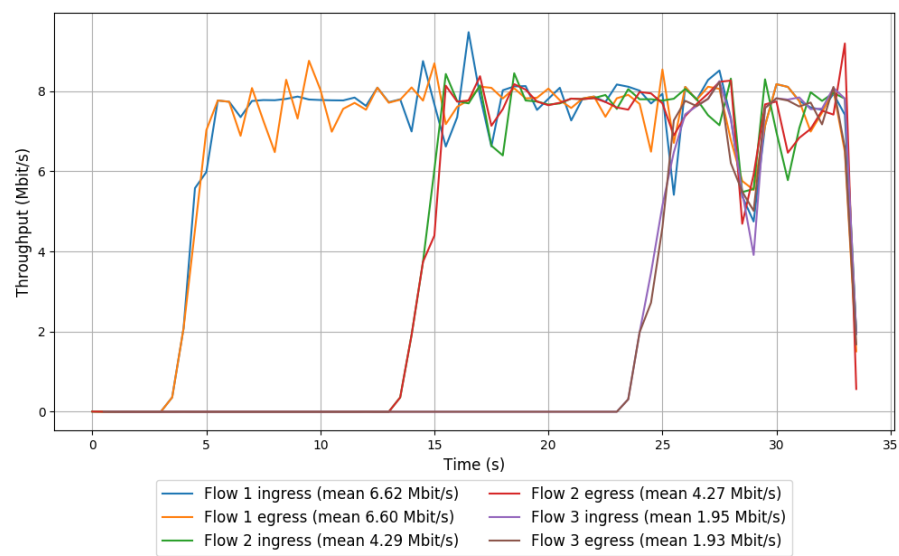
-- Flow 3:

Average throughput: 1.93 Mbit/s

95th percentile per-packet one-way delay: 52.104 ms

Loss rate: 1.64%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: Sat, 01 Jul 2017 14:49:26 +0000

End at: Sat, 01 Jul 2017 14:49:56 +0000

Local clock offset: 0.062 ms

Remote clock offset: -5.494 ms

Below is generated by plot.py at Sat, 01 Jul 2017 16:23:19 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 12.61 Mbit/s

95th percentile per-packet one-way delay: 53.145 ms

Loss rate: 0.70%

-- Flow 1:

Average throughput: 6.39 Mbit/s

95th percentile per-packet one-way delay: 53.114 ms

Loss rate: 0.46%

-- Flow 2:

Average throughput: 4.28 Mbit/s

95th percentile per-packet one-way delay: 53.209 ms

Loss rate: 0.72%

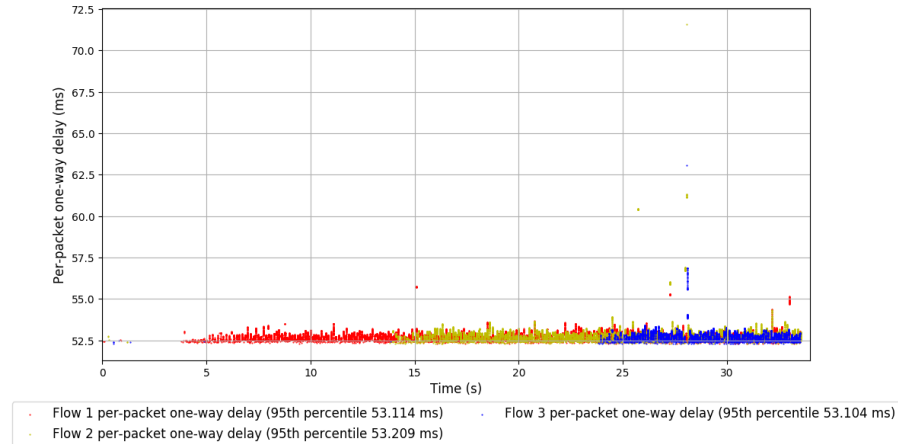
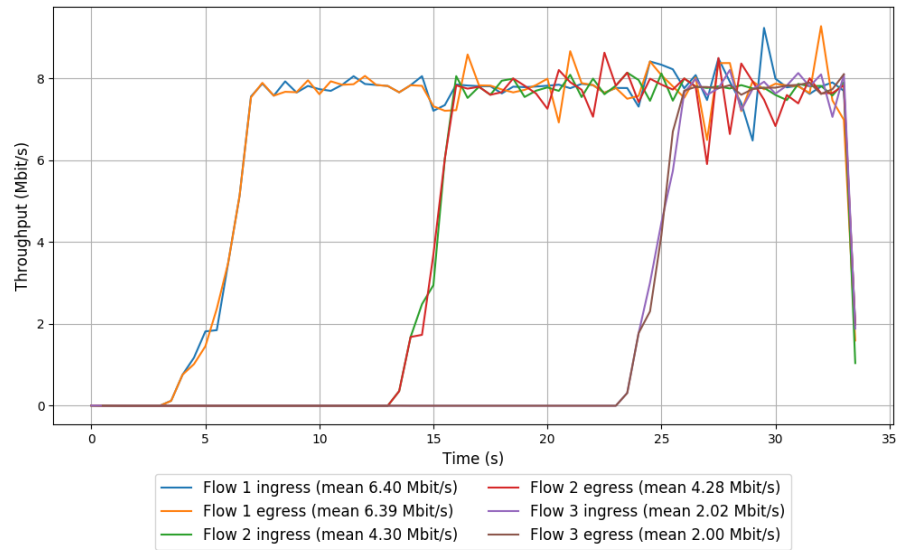
-- Flow 3:

Average throughput: 2.00 Mbit/s

95th percentile per-packet one-way delay: 53.104 ms

Loss rate: 1.41%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: Sat, 01 Jul 2017 15:07:48 +0000

End at: Sat, 01 Jul 2017 15:08:18 +0000

Local clock offset: 0.094 ms

Remote clock offset: -7.139 ms

Below is generated by plot.py at Sat, 01 Jul 2017 16:23:20 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 12.73 Mbit/s

95th percentile per-packet one-way delay: 51.371 ms

Loss rate: 0.73%

-- Flow 1:

Average throughput: 6.26 Mbit/s

95th percentile per-packet one-way delay: 51.303 ms

Loss rate: 0.52%

-- Flow 2:

Average throughput: 4.42 Mbit/s

95th percentile per-packet one-way delay: 50.741 ms

Loss rate: 0.66%

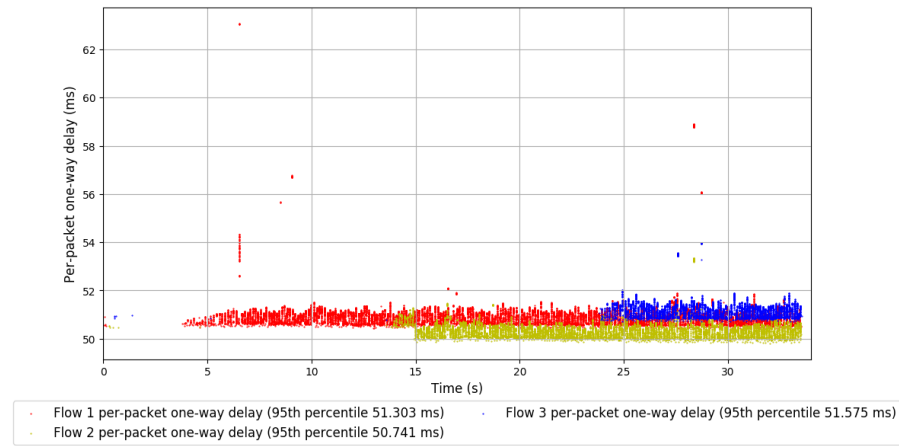
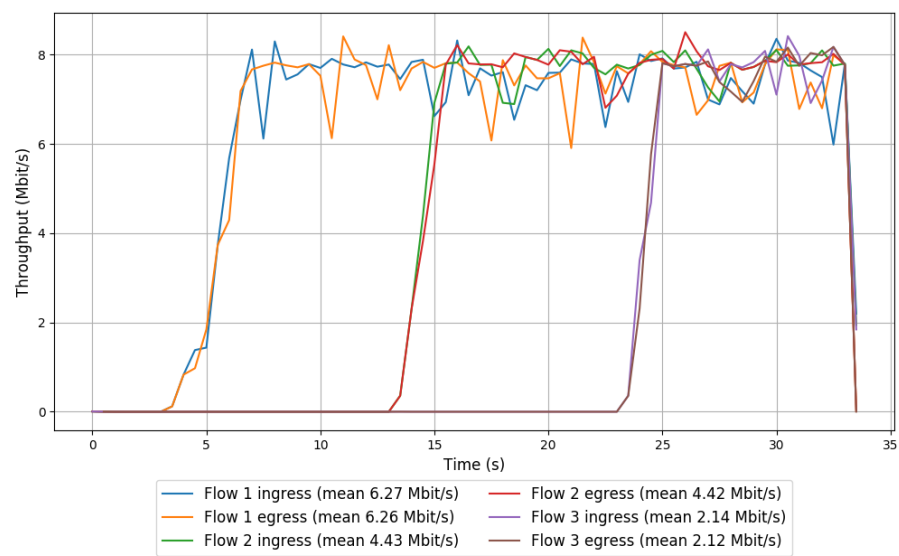
-- Flow 3:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 51.575 ms

Loss rate: 1.50%

Run 10: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

Start at: Sat, 01 Jul 2017 12:17:52 +0000

End at: Sat, 01 Jul 2017 12:18:22 +0000

Local clock offset: 0.499 ms

Remote clock offset: -10.831 ms

Below is generated by plot.py at Sat, 01 Jul 2017 16:23:42 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 83.98 Mbit/s

95th percentile per-packet one-way delay: 64.815 ms

Loss rate: 21.19%

-- Flow 1:

Average throughput: 55.93 Mbit/s

95th percentile per-packet one-way delay: 64.500 ms

Loss rate: 18.12%

-- Flow 2:

Average throughput: 28.26 Mbit/s

95th percentile per-packet one-way delay: 65.022 ms

Loss rate: 26.66%

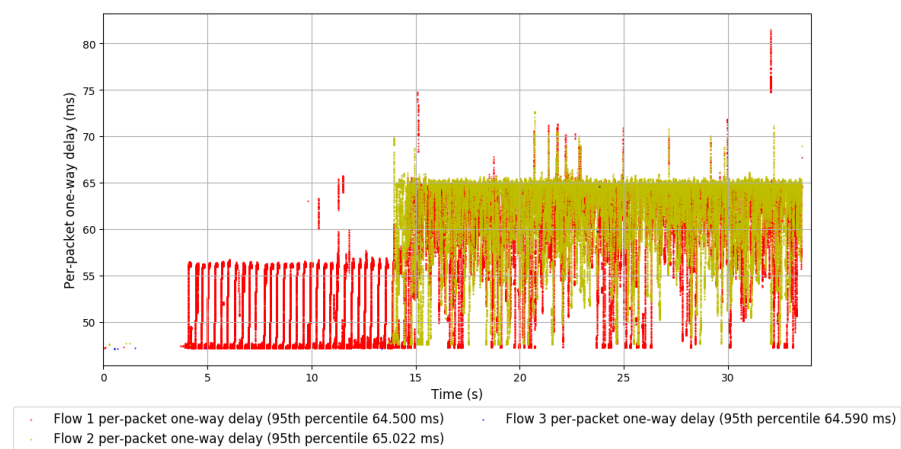
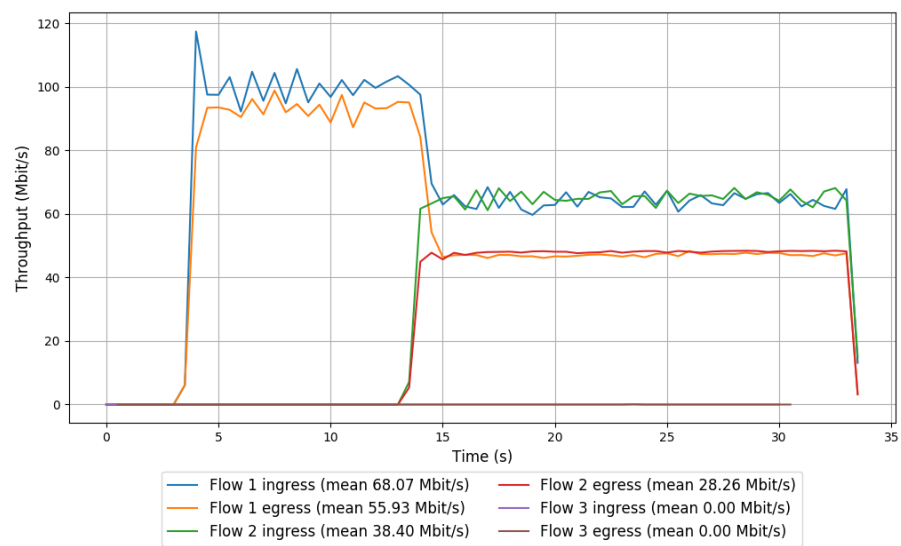
-- Flow 3:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 64.590 ms

Loss rate: 30.90%

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



Run 2: Statistics of TaoVA-100x

Start at: Sat, 01 Jul 2017 12:36:32 +0000

End at: Sat, 01 Jul 2017 12:37:02 +0000

Local clock offset: 0.453 ms

Remote clock offset: -8.254 ms

Below is generated by plot.py at Sat, 01 Jul 2017 16:23:43 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 81.55 Mbit/s

95th percentile per-packet one-way delay: 66.652 ms

Loss rate: 15.63%

-- Flow 1:

Average throughput: 68.03 Mbit/s

95th percentile per-packet one-way delay: 66.345 ms

Loss rate: 12.79%

-- Flow 2:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 58.602 ms

Loss rate: 28.70%

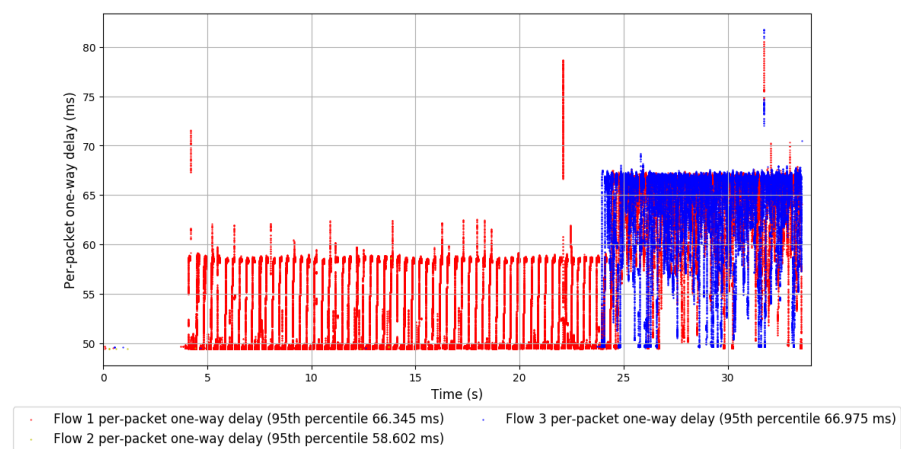
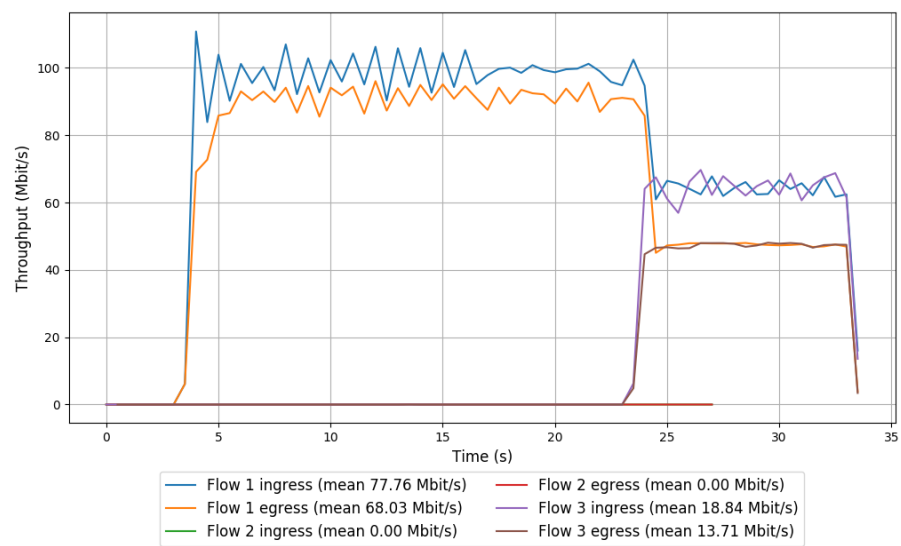
-- Flow 3:

Average throughput: 13.71 Mbit/s

95th percentile per-packet one-way delay: 66.975 ms

Loss rate: 27.49%

Run 2: Report of TaoVA-100x — Data Link



Run 3: Statistics of TaoVA-100x

Start at: Sat, 01 Jul 2017 12:55:16 +0000

End at: Sat, 01 Jul 2017 12:55:46 +0000

Local clock offset: 0.379 ms

Remote clock offset: -6.481 ms

Below is generated by plot.py at Sat, 01 Jul 2017 16:24:04 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 80.78 Mbit/s

95th percentile per-packet one-way delay: 61.016 ms

Loss rate: 10.17%

-- Flow 1:

Average throughput: 77.53 Mbit/s

95th percentile per-packet one-way delay: 61.014 ms

Loss rate: 9.92%

-- Flow 2:

Average throughput: 2.35 Mbit/s

95th percentile per-packet one-way delay: 61.095 ms

Loss rate: 14.04%

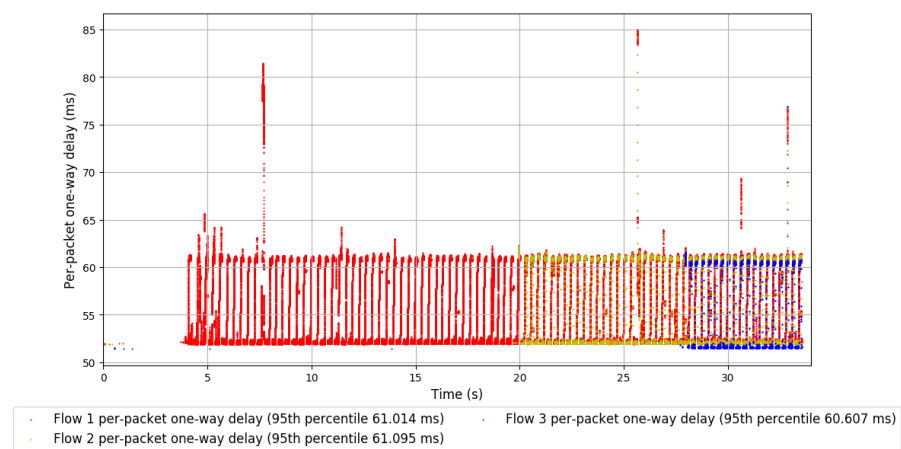
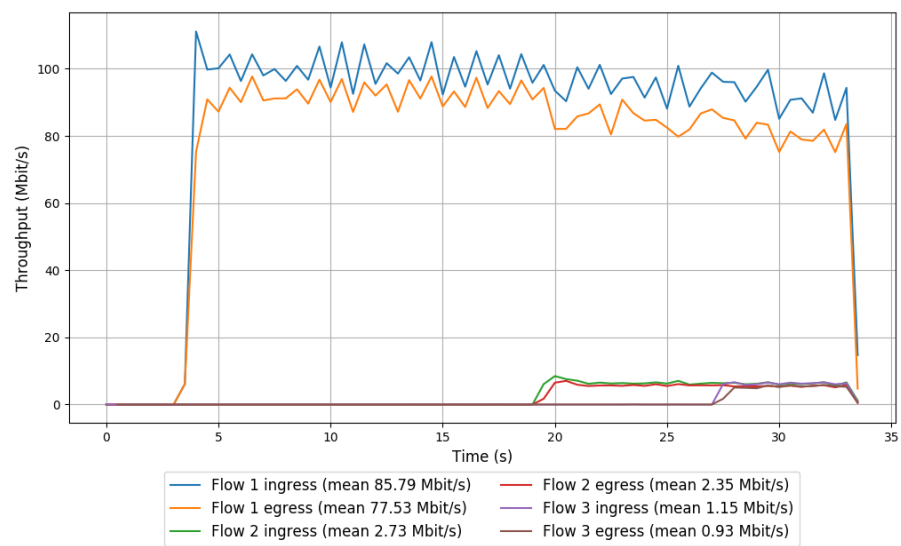
-- Flow 3:

Average throughput: 0.93 Mbit/s

95th percentile per-packet one-way delay: 60.607 ms

Loss rate: 19.72%

Run 3: Report of TaoVA-100x — Data Link



Run 4: Statistics of TaoVA-100x

Start at: Sat, 01 Jul 2017 13:13:51 +0000

End at: Sat, 01 Jul 2017 13:14:21 +0000

Local clock offset: 0.286 ms

Remote clock offset: -4.13 ms

Below is generated by plot.py at Sat, 01 Jul 2017 16:24:05 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 80.77 Mbit/s

95th percentile per-packet one-way delay: 71.076 ms

Loss rate: 20.68%

-- Flow 1:

Average throughput: 53.91 Mbit/s

95th percentile per-packet one-way delay: 70.798 ms

Loss rate: 18.71%

-- Flow 2:

Average throughput: 25.61 Mbit/s

95th percentile per-packet one-way delay: 71.282 ms

Loss rate: 24.79%

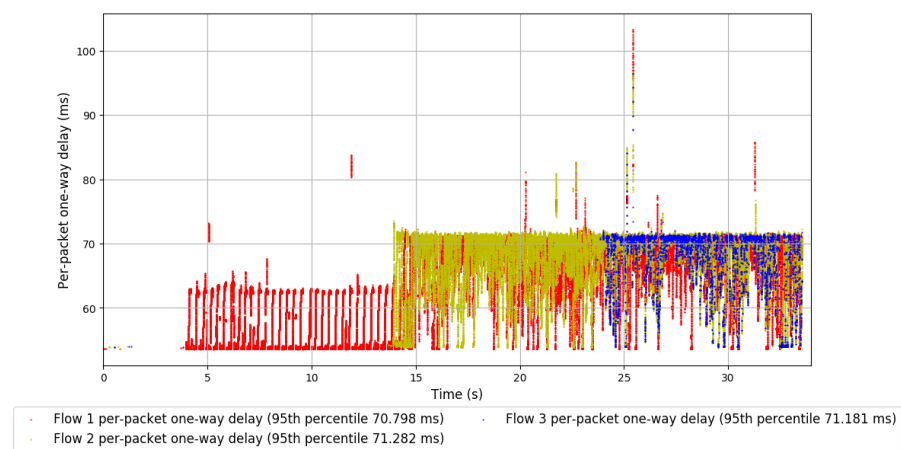
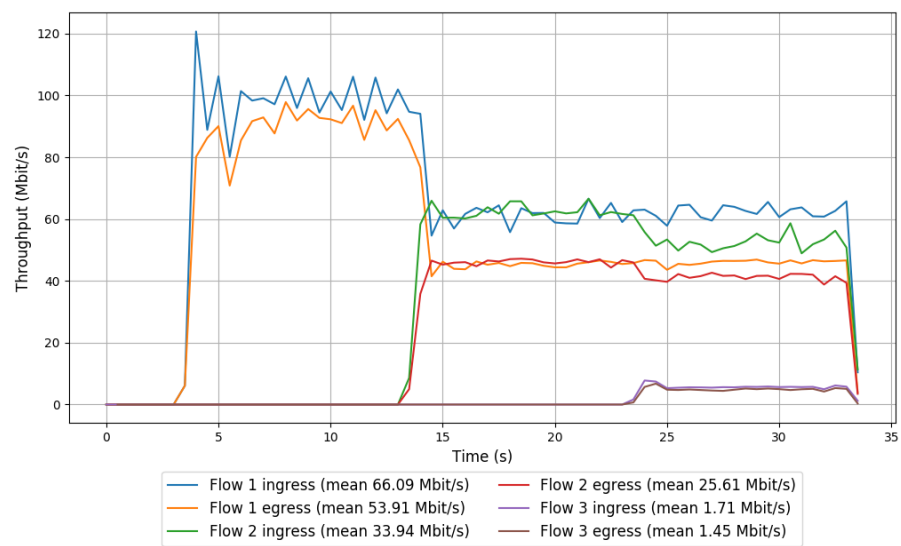
-- Flow 3:

Average throughput: 1.45 Mbit/s

95th percentile per-packet one-way delay: 71.181 ms

Loss rate: 15.51%

Run 4: Report of TaoVA-100x — Data Link



Run 5: Statistics of TaoVA-100x

Start at: Sat, 01 Jul 2017 13:32:32 +0000

End at: Sat, 01 Jul 2017 13:33:02 +0000

Local clock offset: 0.214 ms

Remote clock offset: -2.72 ms

Below is generated by plot.py at Sat, 01 Jul 2017 16:24:27 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 81.76 Mbit/s

95th percentile per-packet one-way delay: 72.486 ms

Loss rate: 19.50%

-- Flow 1:

Average throughput: 52.89 Mbit/s

95th percentile per-packet one-way delay: 72.582 ms

Loss rate: 15.18%

-- Flow 2:

Average throughput: 27.67 Mbit/s

95th percentile per-packet one-way delay: 71.911 ms

Loss rate: 26.72%

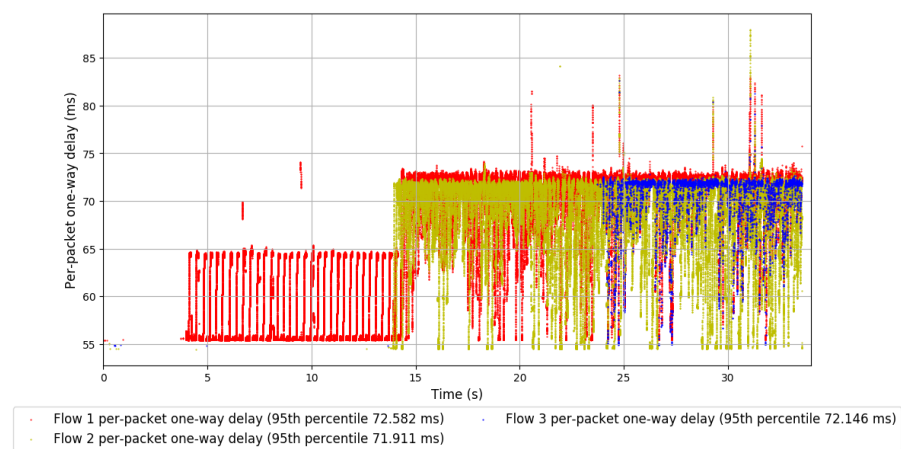
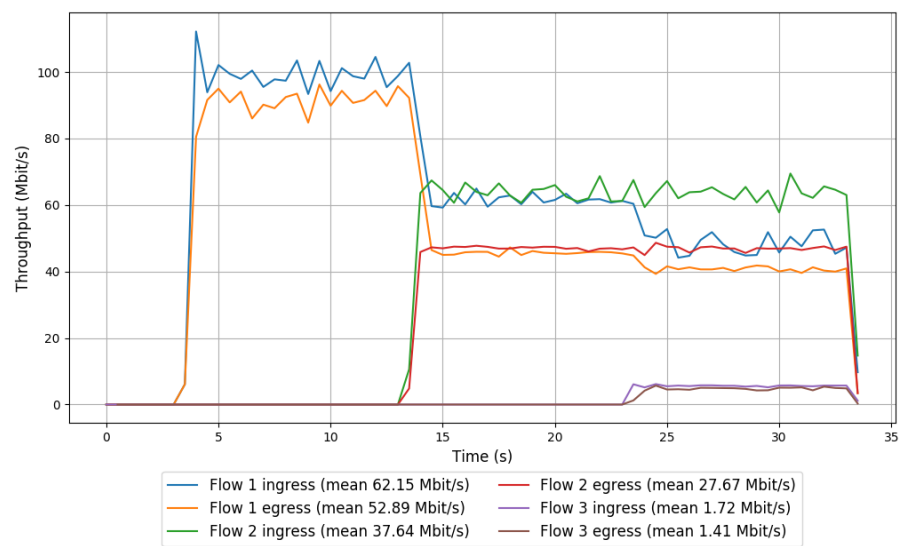
-- Flow 3:

Average throughput: 1.41 Mbit/s

95th percentile per-packet one-way delay: 72.146 ms

Loss rate: 18.48%

Run 5: Report of TaoVA-100x — Data Link



Run 6: Statistics of TaoVA-100x

Start at: Sat, 01 Jul 2017 13:51:08 +0000

End at: Sat, 01 Jul 2017 13:51:38 +0000

Local clock offset: 0.204 ms

Remote clock offset: -1.787 ms

Below is generated by plot.py at Sat, 01 Jul 2017 16:24:27 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 76.12 Mbit/s

95th percentile per-packet one-way delay: 73.152 ms

Loss rate: 16.02%

-- Flow 1:

Average throughput: 37.69 Mbit/s

95th percentile per-packet one-way delay: 65.136 ms

Loss rate: 10.26%

-- Flow 2:

Average throughput: 32.13 Mbit/s

95th percentile per-packet one-way delay: 73.048 ms

Loss rate: 16.60%

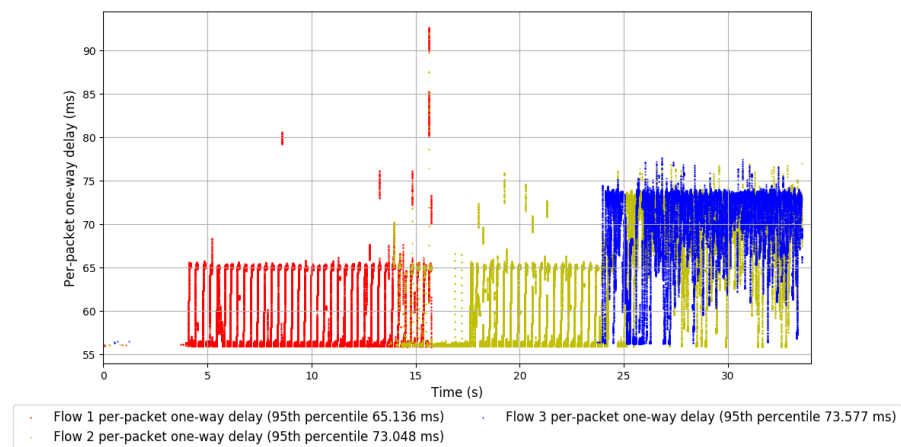
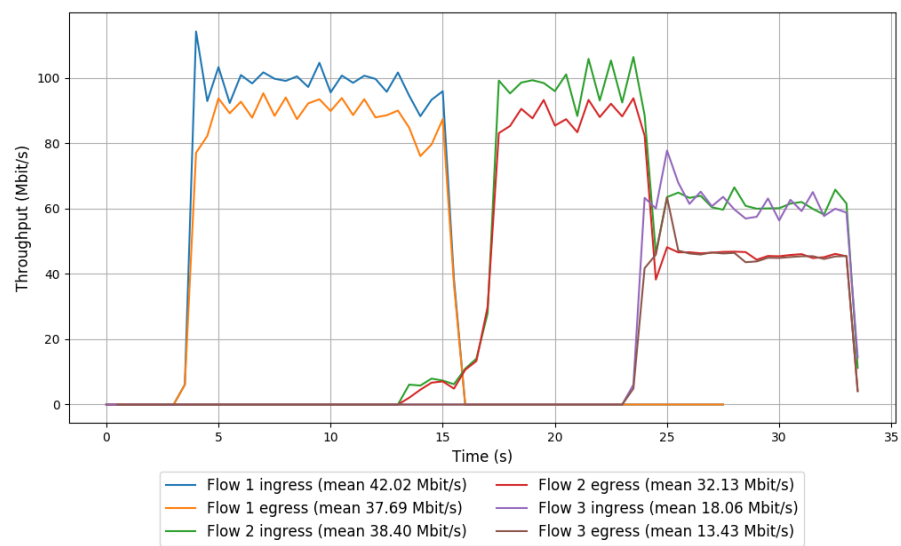
-- Flow 3:

Average throughput: 13.43 Mbit/s

95th percentile per-packet one-way delay: 73.577 ms

Loss rate: 25.91%

Run 6: Report of TaoVA-100x — Data Link



Run 7: Statistics of TaoVA-100x

Start at: Sat, 01 Jul 2017 14:09:41 +0000

End at: Sat, 01 Jul 2017 14:10:11 +0000

Local clock offset: 0.169 ms

Remote clock offset: -5.498 ms

Below is generated by plot.py at Sat, 01 Jul 2017 16:24:46 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 78.34 Mbit/s

95th percentile per-packet one-way delay: 69.008 ms

Loss rate: 14.44%

-- Flow 1:

Average throughput: 62.34 Mbit/s

95th percentile per-packet one-way delay: 68.986 ms

Loss rate: 11.26%

-- Flow 2:

Average throughput: 2.96 Mbit/s

95th percentile per-packet one-way delay: 69.190 ms

Loss rate: 15.33%

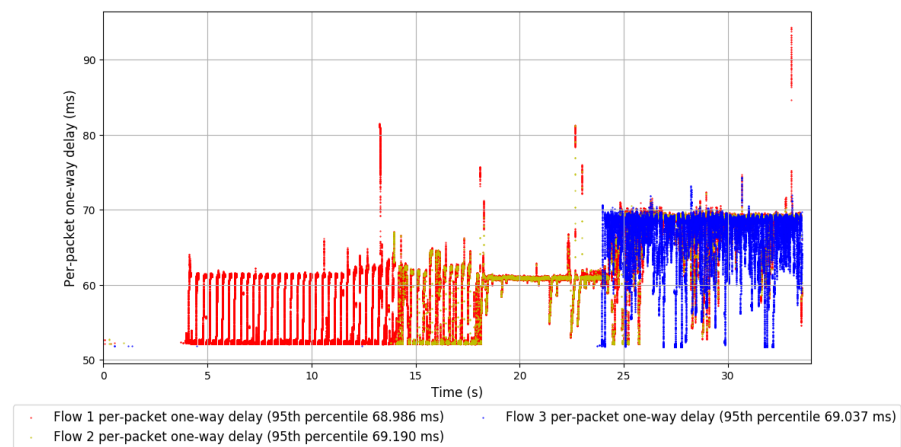
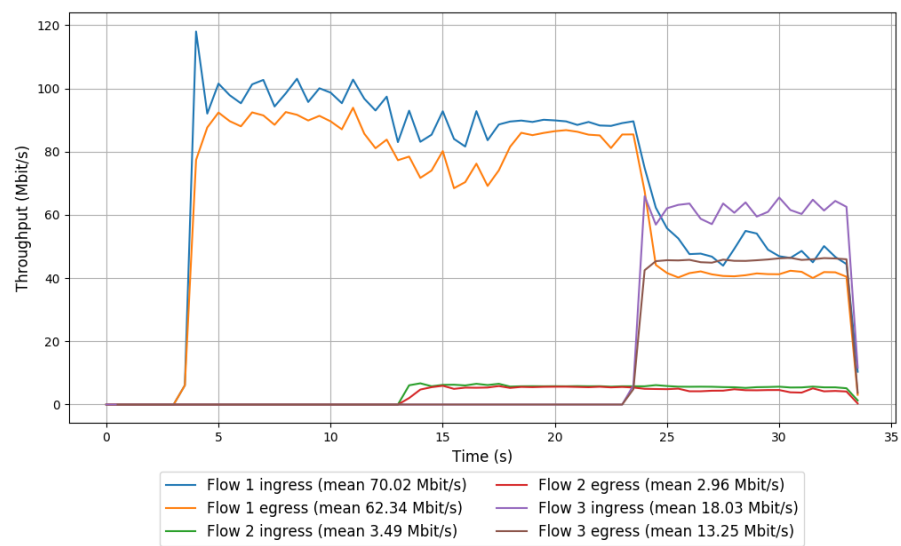
-- Flow 3:

Average throughput: 13.25 Mbit/s

95th percentile per-packet one-way delay: 69.037 ms

Loss rate: 26.78%

Run 7: Report of TaoVA-100x — Data Link



Run 8: Statistics of TaoVA-100x

Start at: Sat, 01 Jul 2017 14:28:20 +0000

End at: Sat, 01 Jul 2017 14:28:50 +0000

Local clock offset: 0.128 ms

Remote clock offset: -7.244 ms

Below is generated by plot.py at Sat, 01 Jul 2017 16:24:49 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 74.40 Mbit/s

95th percentile per-packet one-way delay: 68.160 ms

Loss rate: 15.90%

-- Flow 1:

Average throughput: 61.91 Mbit/s

95th percentile per-packet one-way delay: 66.887 ms

Loss rate: 14.12%

-- Flow 2:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 66.358 ms

Loss rate: 32.39%

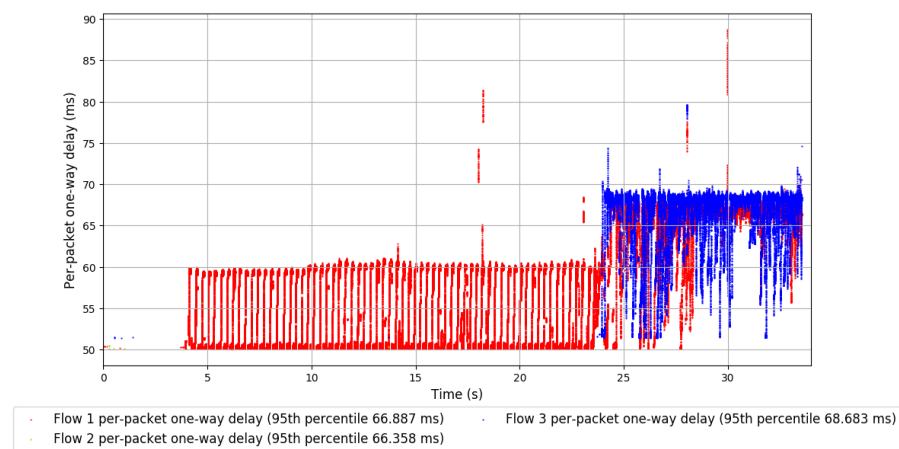
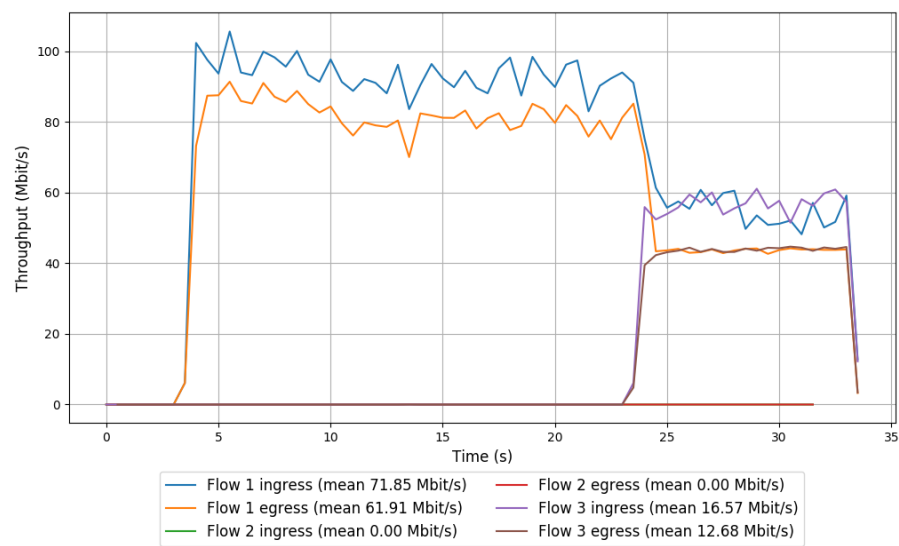
-- Flow 3:

Average throughput: 12.68 Mbit/s

95th percentile per-packet one-way delay: 68.683 ms

Loss rate: 23.76%

Run 8: Report of TaoVA-100x — Data Link



Run 9: Statistics of TaoVA-100x

Start at: Sat, 01 Jul 2017 14:46:52 +0000

End at: Sat, 01 Jul 2017 14:47:22 +0000

Local clock offset: 0.111 ms

Remote clock offset: -5.414 ms

Below is generated by plot.py at Sat, 01 Jul 2017 16:25:08 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 77.00 Mbit/s

95th percentile per-packet one-way delay: 69.826 ms

Loss rate: 17.03%

-- Flow 1:

Average throughput: 50.45 Mbit/s

95th percentile per-packet one-way delay: 69.874 ms

Loss rate: 14.70%

-- Flow 2:

Average throughput: 25.71 Mbit/s

95th percentile per-packet one-way delay: 69.220 ms

Loss rate: 21.00%

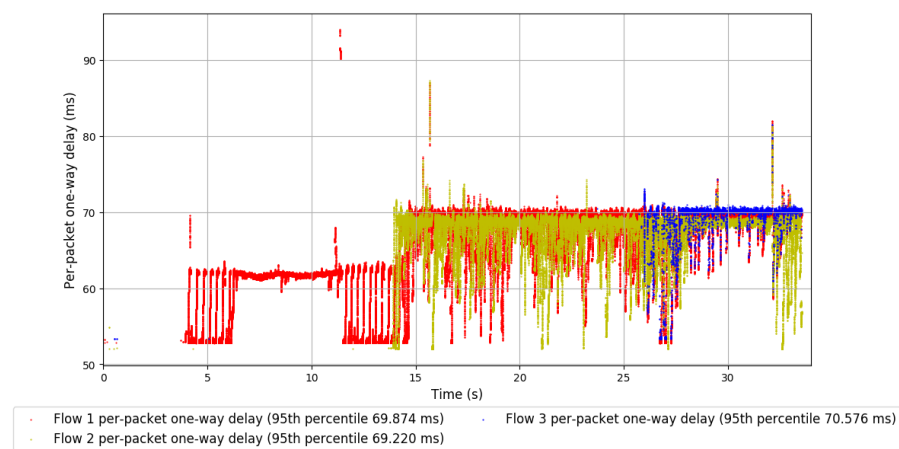
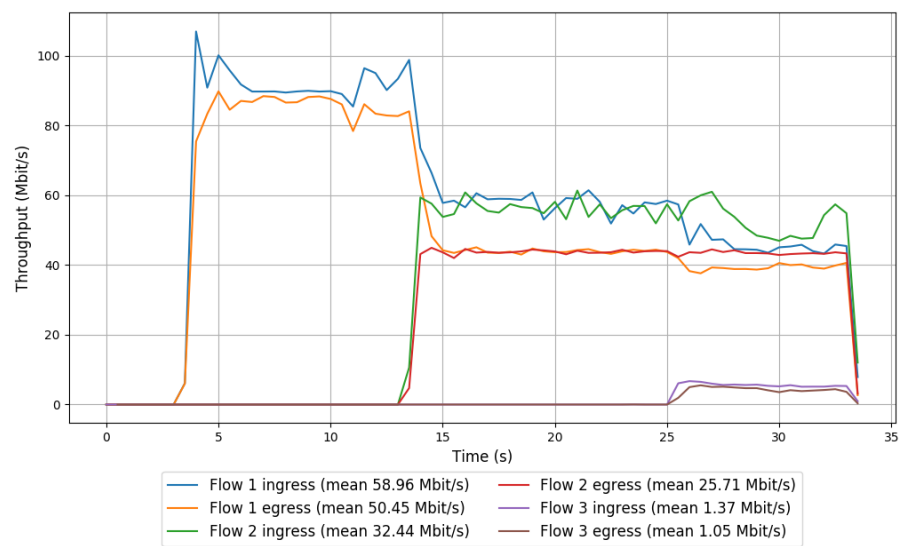
-- Flow 3:

Average throughput: 1.05 Mbit/s

95th percentile per-packet one-way delay: 70.576 ms

Loss rate: 24.16%

Run 9: Report of TaoVA-100x — Data Link



Run 10: Statistics of TaoVA-100x

Start at: Sat, 01 Jul 2017 15:05:15 +0000

End at: Sat, 01 Jul 2017 15:05:45 +0000

Local clock offset: 0.108 ms

Remote clock offset: -6.989 ms

Below is generated by plot.py at Sat, 01 Jul 2017 16:25:10 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 74.09 Mbit/s

95th percentile per-packet one-way delay: 68.080 ms

Loss rate: 13.47%

-- Flow 1:

Average throughput: 59.20 Mbit/s

95th percentile per-packet one-way delay: 67.710 ms

Loss rate: 10.74%

-- Flow 2:

Average throughput: 2.52 Mbit/s

95th percentile per-packet one-way delay: 67.967 ms

Loss rate: 18.61%

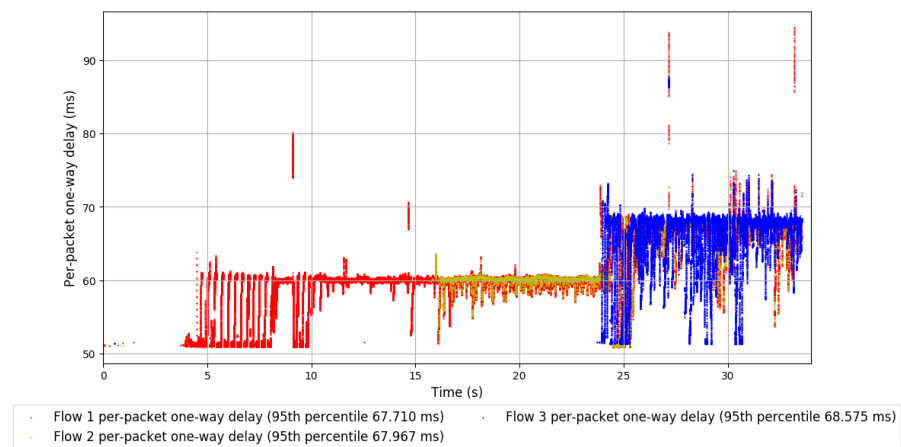
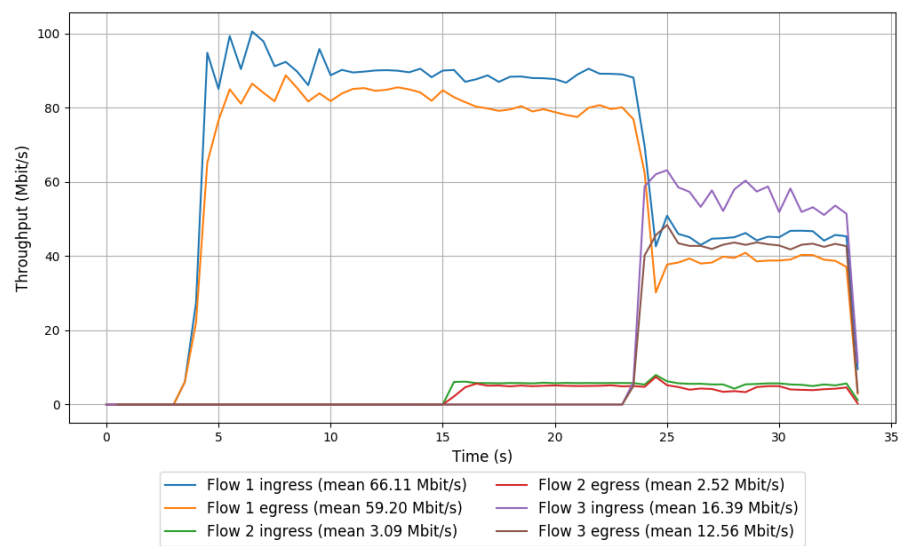
-- Flow 3:

Average throughput: 12.56 Mbit/s

95th percentile per-packet one-way delay: 68.575 ms

Loss rate: 23.63%

Run 10: Report of TaoVA-100x — Data Link



Run 1: Statistics of TCP Vegas

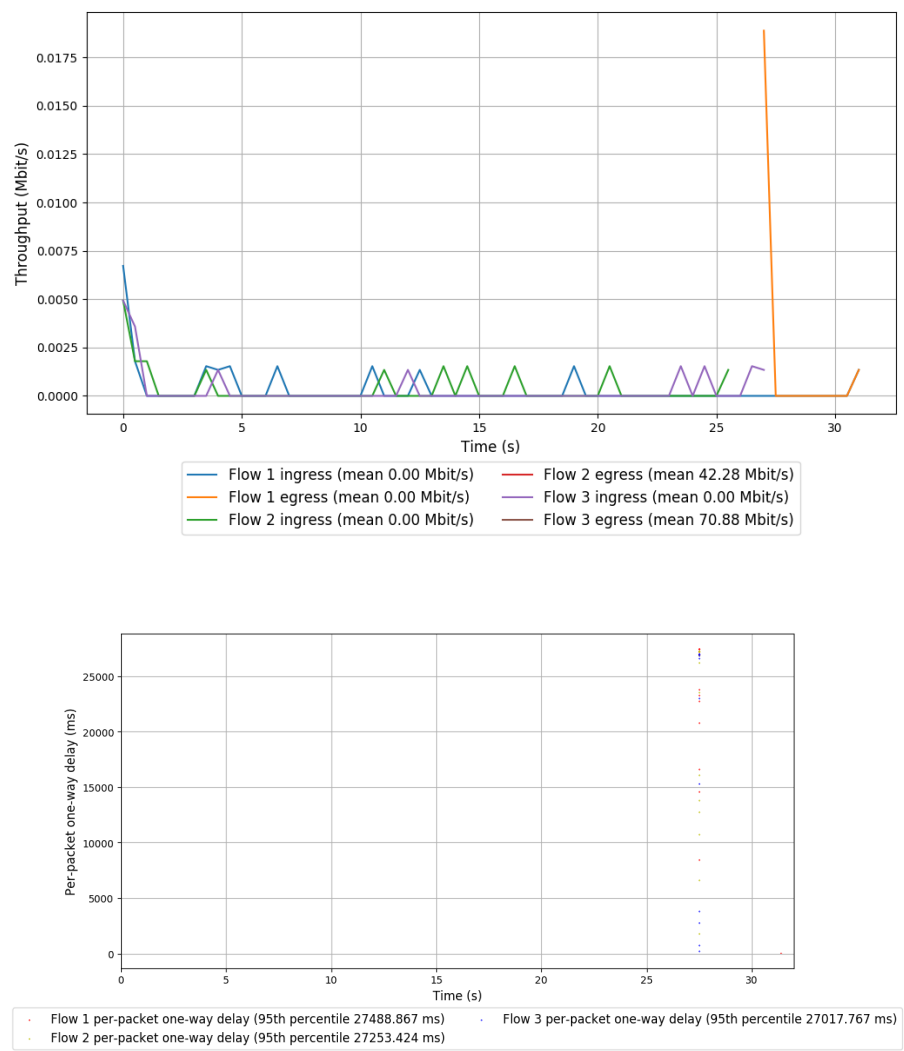
Start at: Sat, 01 Jul 2017 12:30:29 +0000

End at: Sat, 01 Jul 2017 12:30:59 +0000

Local clock offset: 0.481 ms

Remote clock offset: -8.721 ms

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: Sat, 01 Jul 2017 12:49:14 +0000

End at: Sat, 01 Jul 2017 12:49:44 +0000

Local clock offset: 0.39 ms

Remote clock offset: -6.941 ms

Below is generated by plot.py at Sat, 01 Jul 2017 16:25:14 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 25.58 Mbit/s

95th percentile per-packet one-way delay: 51.710 ms

Loss rate: 1.49%

-- Flow 1:

Average throughput: 9.87 Mbit/s

95th percentile per-packet one-way delay: 51.095 ms

Loss rate: 1.31%

-- Flow 2:

Average throughput: 8.06 Mbit/s

95th percentile per-packet one-way delay: 50.512 ms

Loss rate: 0.98%

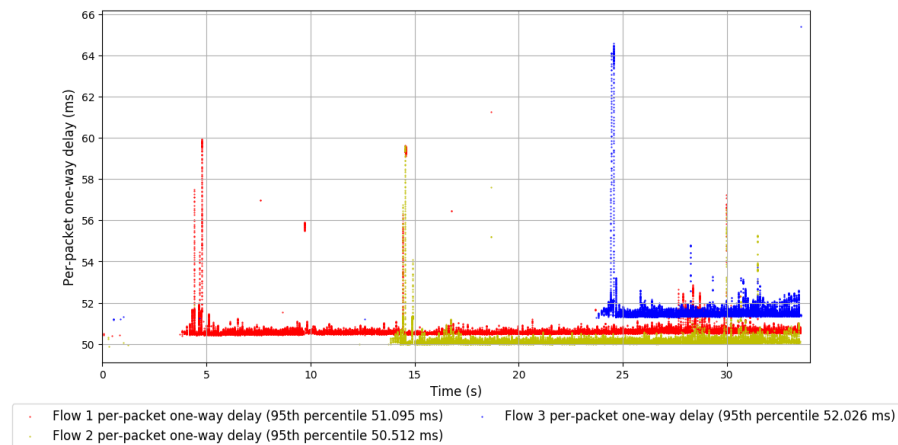
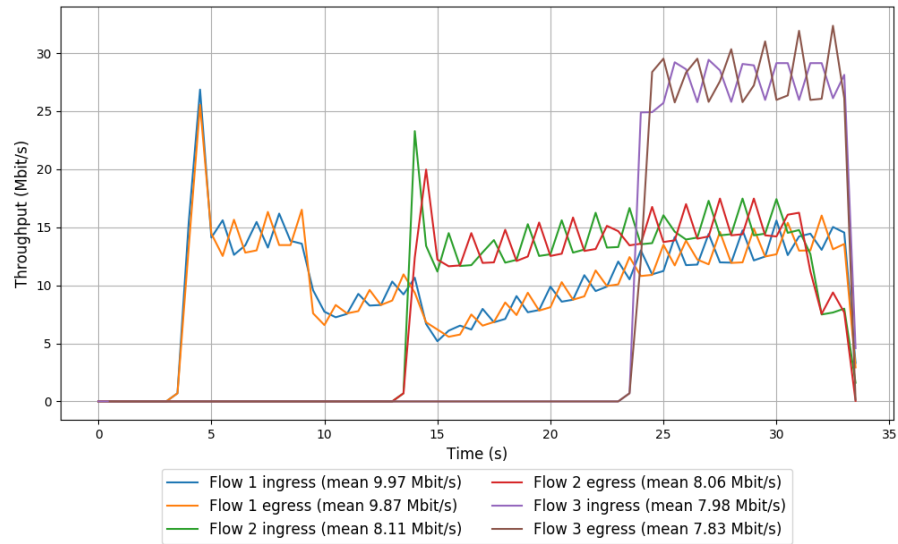
-- Flow 3:

Average throughput: 7.83 Mbit/s

95th percentile per-packet one-way delay: 52.026 ms

Loss rate: 2.25%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: Sat, 01 Jul 2017 13:07:49 +0000

End at: Sat, 01 Jul 2017 13:08:19 +0000

Local clock offset: 0.327 ms

Remote clock offset: -4.261 ms

Below is generated by plot.py at Sat, 01 Jul 2017 16:25:14 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 21.69 Mbit/s

95th percentile per-packet one-way delay: 54.505 ms

Loss rate: 1.76%

-- Flow 1:

Average throughput: 8.49 Mbit/s

95th percentile per-packet one-way delay: 54.178 ms

Loss rate: 0.75%

-- Flow 2:

Average throughput: 7.00 Mbit/s

95th percentile per-packet one-way delay: 54.657 ms

Loss rate: 1.16%

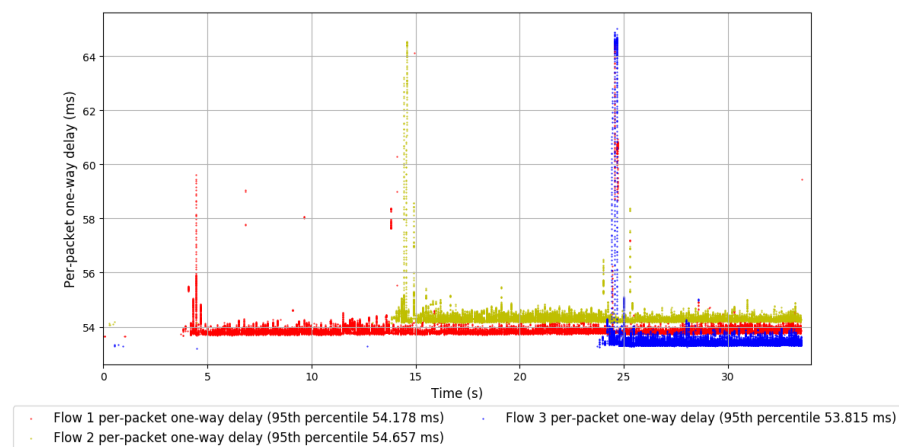
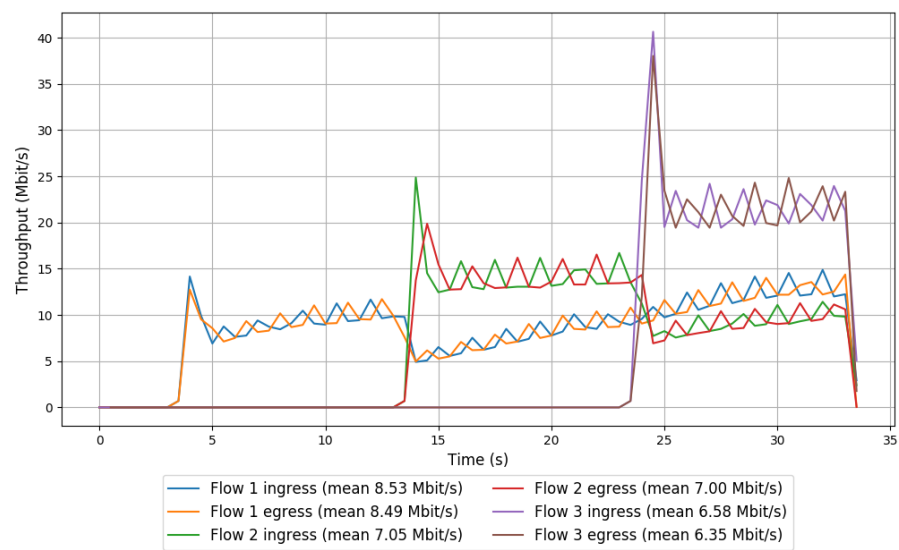
-- Flow 3:

Average throughput: 6.35 Mbit/s

95th percentile per-packet one-way delay: 53.815 ms

Loss rate: 3.75%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: Sat, 01 Jul 2017 13:26:34 +0000

End at: Sat, 01 Jul 2017 13:27:04 +0000

Local clock offset: 0.149 ms

Remote clock offset: -3.186 ms

Below is generated by plot.py at Sat, 01 Jul 2017 16:25:21 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 41.05 Mbit/s

95th percentile per-packet one-way delay: 54.906 ms

Loss rate: 0.99%

-- Flow 1:

Average throughput: 19.40 Mbit/s

95th percentile per-packet one-way delay: 54.967 ms

Loss rate: 0.55%

-- Flow 2:

Average throughput: 16.26 Mbit/s

95th percentile per-packet one-way delay: 54.780 ms

Loss rate: 1.01%

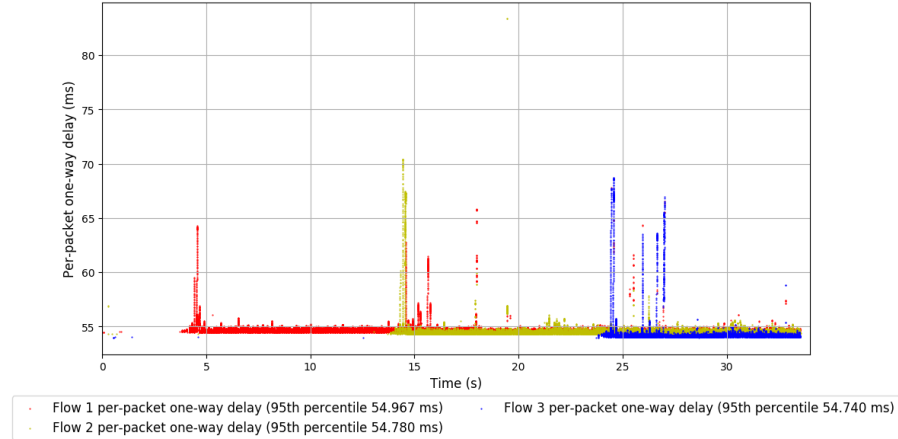
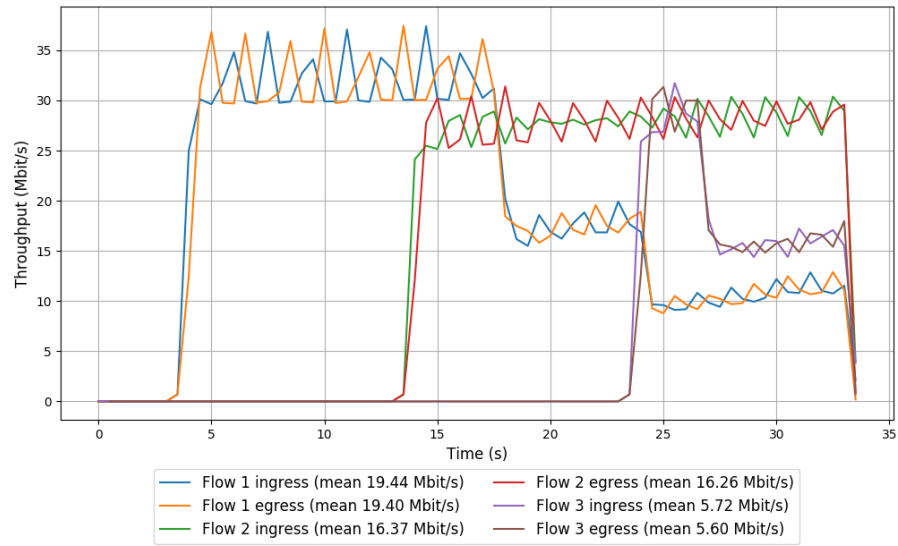
-- Flow 3:

Average throughput: 5.60 Mbit/s

95th percentile per-packet one-way delay: 54.740 ms

Loss rate: 2.48%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: Sat, 01 Jul 2017 13:45:08 +0000

End at: Sat, 01 Jul 2017 13:45:38 +0000

Local clock offset: 0.175 ms

Remote clock offset: -1.815 ms

Below is generated by plot.py at Sat, 01 Jul 2017 16:25:21 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 25.67 Mbit/s

95th percentile per-packet one-way delay: 57.042 ms

Loss rate: 1.61%

-- Flow 1:

Average throughput: 7.66 Mbit/s

95th percentile per-packet one-way delay: 56.957 ms

Loss rate: 0.60%

-- Flow 2:

Average throughput: 10.90 Mbit/s

95th percentile per-packet one-way delay: 57.282 ms

Loss rate: 2.09%

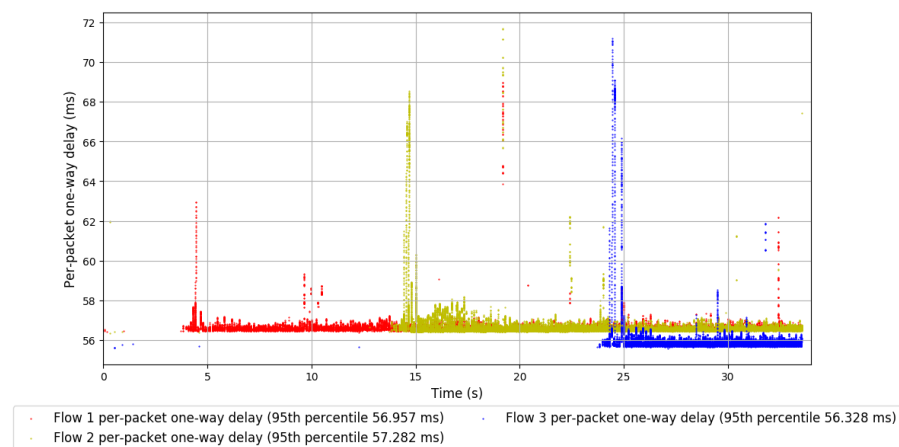
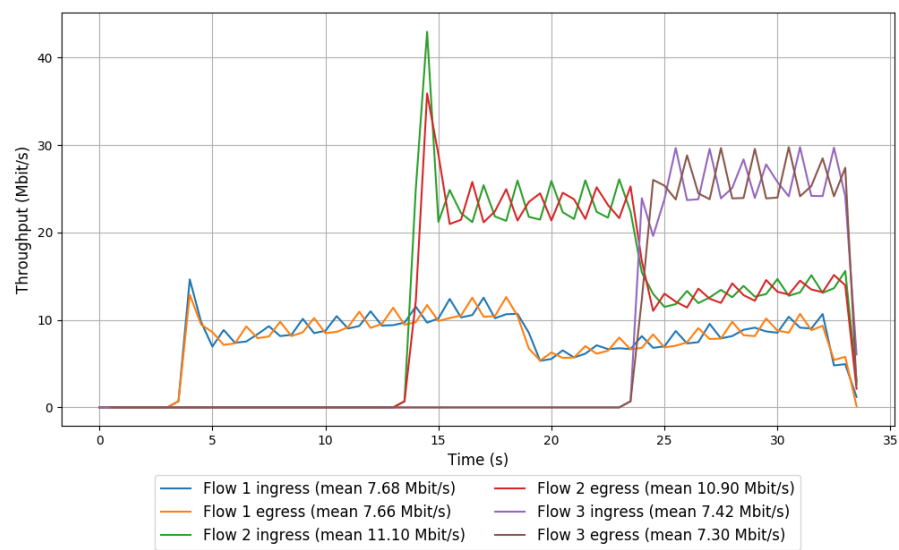
-- Flow 3:

Average throughput: 7.30 Mbit/s

95th percentile per-packet one-way delay: 56.328 ms

Loss rate: 1.96%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: Sat, 01 Jul 2017 14:03:36 +0000

End at: Sat, 01 Jul 2017 14:04:06 +0000

Local clock offset: 0.143 ms

Remote clock offset: -4.533 ms

Below is generated by plot.py at Sat, 01 Jul 2017 16:25:23 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 24.67 Mbit/s

95th percentile per-packet one-way delay: 54.357 ms

Loss rate: 1.40%

-- Flow 1:

Average throughput: 12.77 Mbit/s

95th percentile per-packet one-way delay: 54.426 ms

Loss rate: 0.72%

-- Flow 2:

Average throughput: 6.75 Mbit/s

95th percentile per-packet one-way delay: 53.492 ms

Loss rate: 1.62%

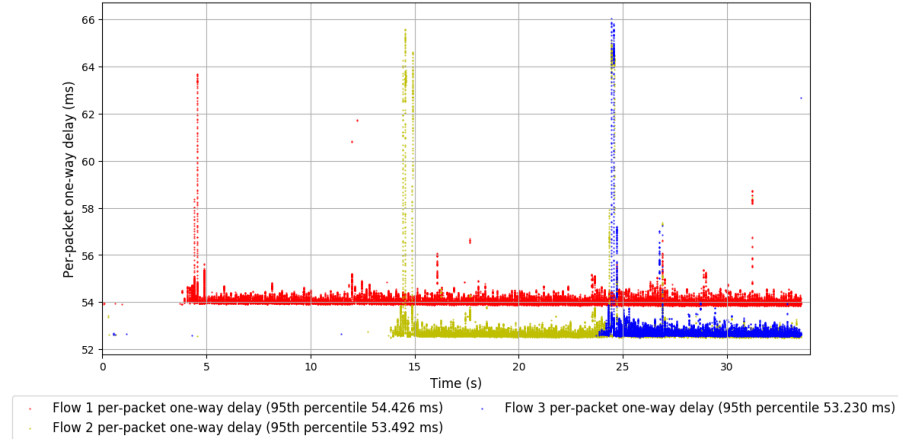
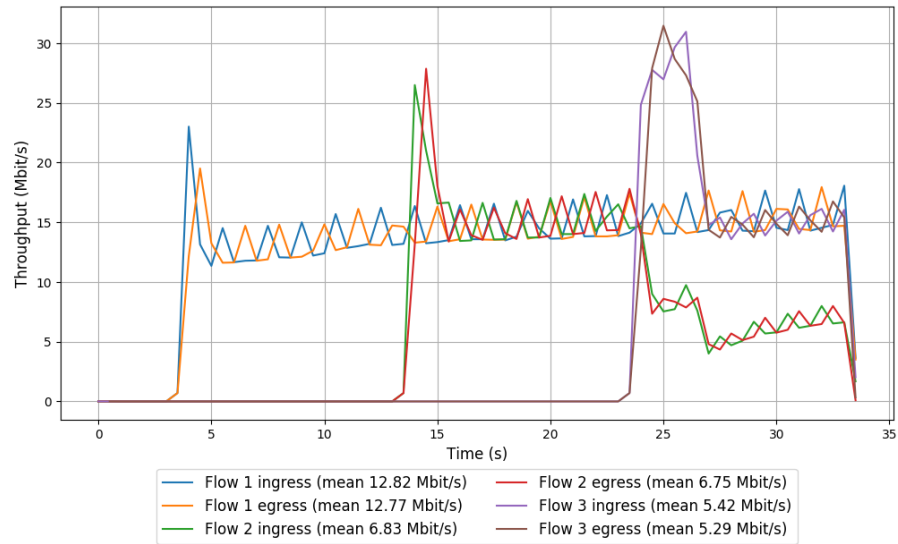
-- Flow 3:

Average throughput: 5.29 Mbit/s

95th percentile per-packet one-way delay: 53.230 ms

Loss rate: 2.72%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: Sat, 01 Jul 2017 14:22:15 +0000

End at: Sat, 01 Jul 2017 14:22:45 +0000

Local clock offset: 0.17 ms

Remote clock offset: -7.328 ms

Below is generated by plot.py at Sat, 01 Jul 2017 16:25:26 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 29.91 Mbit/s

95th percentile per-packet one-way delay: 51.040 ms

Loss rate: 1.56%

-- Flow 1:

Average throughput: 15.59 Mbit/s

95th percentile per-packet one-way delay: 50.661 ms

Loss rate: 1.49%

-- Flow 2:

Average throughput: 9.05 Mbit/s

95th percentile per-packet one-way delay: 51.207 ms

Loss rate: 1.30%

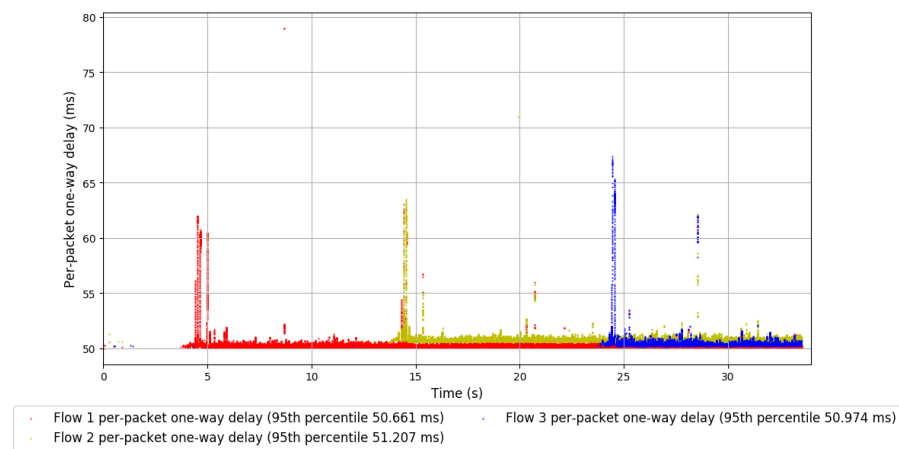
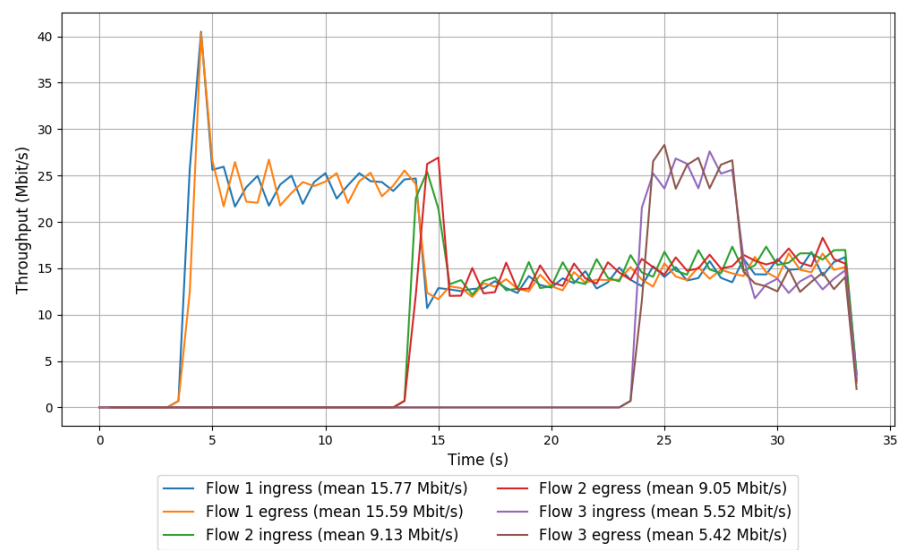
-- Flow 3:

Average throughput: 5.42 Mbit/s

95th percentile per-packet one-way delay: 50.974 ms

Loss rate: 2.20%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: Sat, 01 Jul 2017 14:40:46 +0000

End at: Sat, 01 Jul 2017 14:41:16 +0000

Local clock offset: 0.039 ms

Remote clock offset: -5.347 ms

Below is generated by plot.py at Sat, 01 Jul 2017 16:25:29 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 33.92 Mbit/s

95th percentile per-packet one-way delay: 53.340 ms

Loss rate: 1.35%

-- Flow 1:

Average throughput: 20.48 Mbit/s

95th percentile per-packet one-way delay: 52.754 ms

Loss rate: 0.98%

-- Flow 2:

Average throughput: 8.98 Mbit/s

95th percentile per-packet one-way delay: 53.751 ms

Loss rate: 1.42%

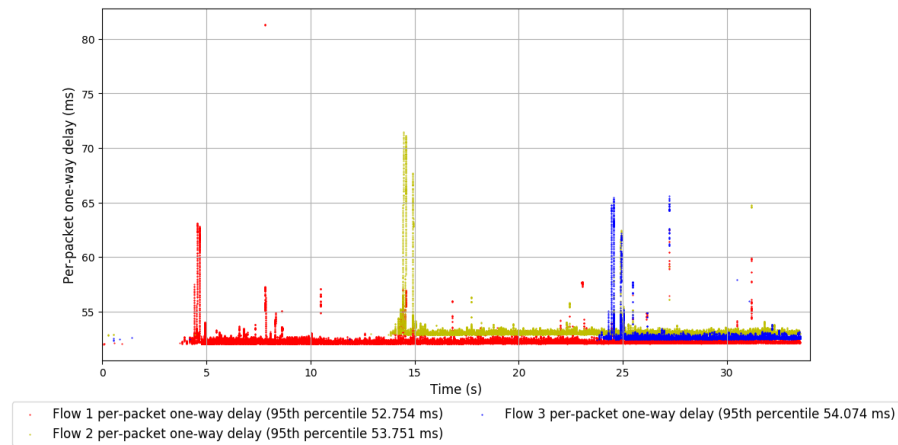
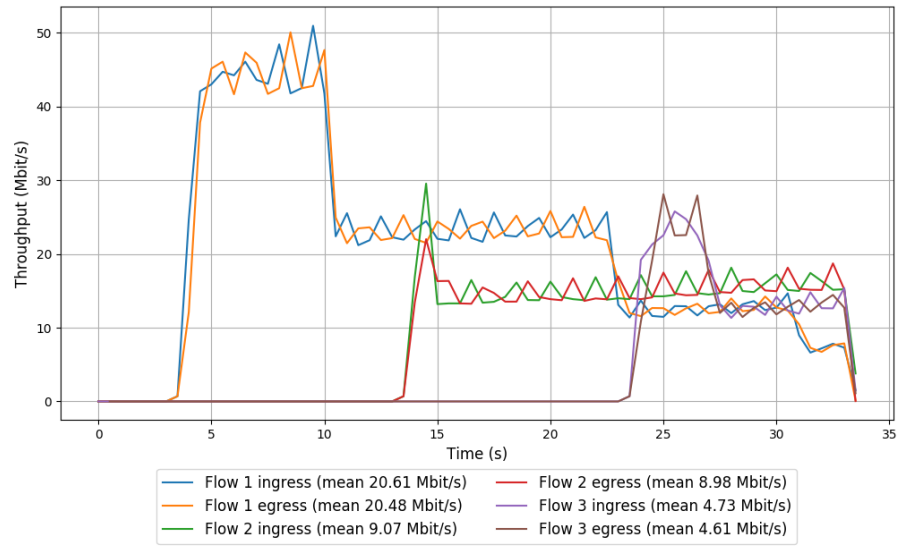
-- Flow 3:

Average throughput: 4.61 Mbit/s

95th percentile per-packet one-way delay: 54.074 ms

Loss rate: 2.81%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: Sat, 01 Jul 2017 14:59:16 +0000

End at: Sat, 01 Jul 2017 14:59:46 +0000

Local clock offset: 0.143 ms

Remote clock offset: -5.264 ms

Below is generated by plot.py at Sat, 01 Jul 2017 16:25:33 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 39.38 Mbit/s

95th percentile per-packet one-way delay: 53.284 ms

Loss rate: 1.30%

-- Flow 1:

Average throughput: 18.82 Mbit/s

95th percentile per-packet one-way delay: 53.021 ms

Loss rate: 1.17%

-- Flow 2:

Average throughput: 16.45 Mbit/s

95th percentile per-packet one-way delay: 53.272 ms

Loss rate: 1.11%

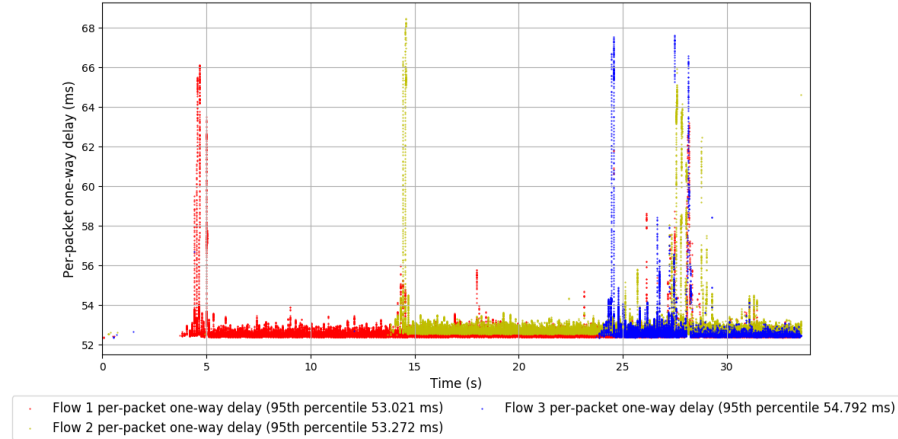
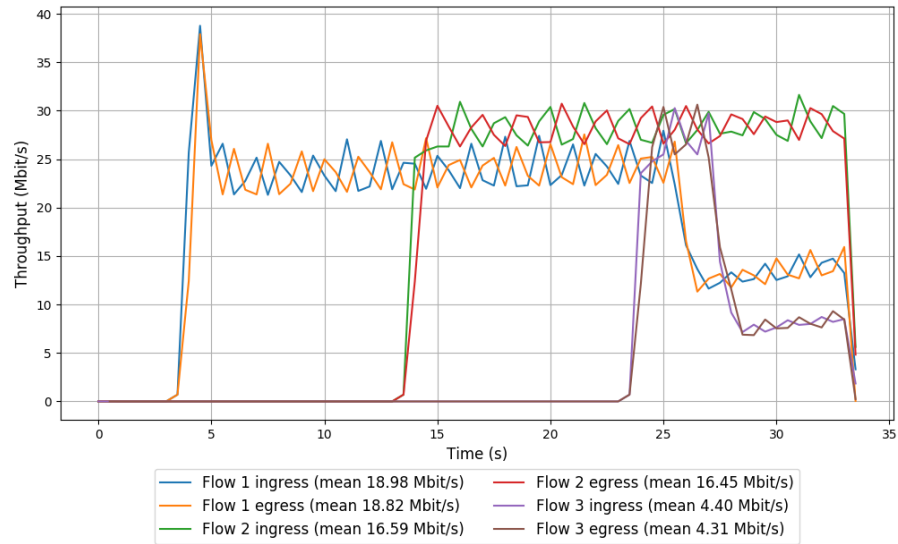
-- Flow 3:

Average throughput: 4.31 Mbit/s

95th percentile per-packet one-way delay: 54.792 ms

Loss rate: 2.57%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: Sat, 01 Jul 2017 15:17:44 +0000

End at: Sat, 01 Jul 2017 15:18:14 +0000

Local clock offset: 0.05 ms

Remote clock offset: -7.462 ms

Below is generated by plot.py at Sat, 01 Jul 2017 16:25:34 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 26.95 Mbit/s

95th percentile per-packet one-way delay: 51.313 ms

Loss rate: 1.84%

-- Flow 1:

Average throughput: 15.32 Mbit/s

95th percentile per-packet one-way delay: 50.663 ms

Loss rate: 1.68%

-- Flow 2:

Average throughput: 7.51 Mbit/s

95th percentile per-packet one-way delay: 51.398 ms

Loss rate: 1.46%

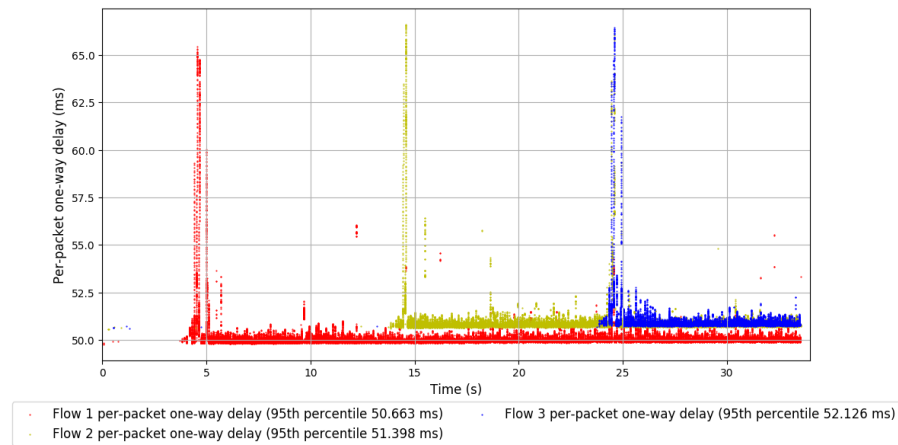
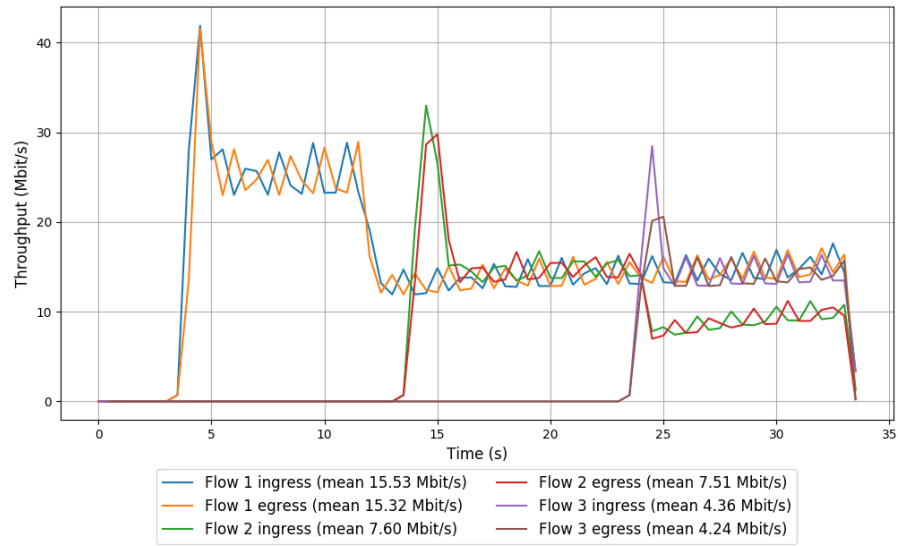
-- Flow 3:

Average throughput: 4.24 Mbit/s

95th percentile per-packet one-way delay: 52.126 ms

Loss rate: 3.08%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: Sat, 01 Jul 2017 12:21:37 +0000

End at: Sat, 01 Jul 2017 12:22:07 +0000

Local clock offset: 0.485 ms

Remote clock offset: -10.178 ms

Below is generated by plot.py at Sat, 01 Jul 2017 16:25:47 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 47.64 Mbit/s

95th percentile per-packet one-way delay: 69.718 ms

Loss rate: 82.72%

-- Flow 1:

Average throughput: 43.46 Mbit/s

95th percentile per-packet one-way delay: 69.748 ms

Loss rate: 83.05%

-- Flow 2:

Average throughput: 4.29 Mbit/s

95th percentile per-packet one-way delay: 69.471 ms

Loss rate: 78.95%

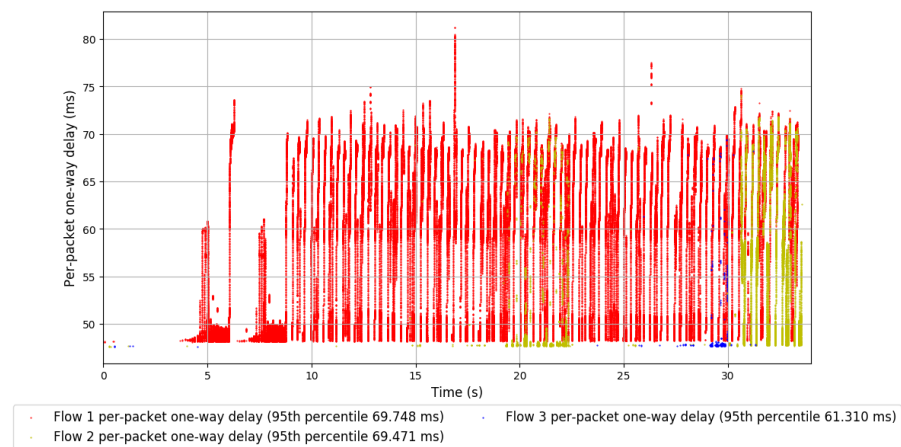
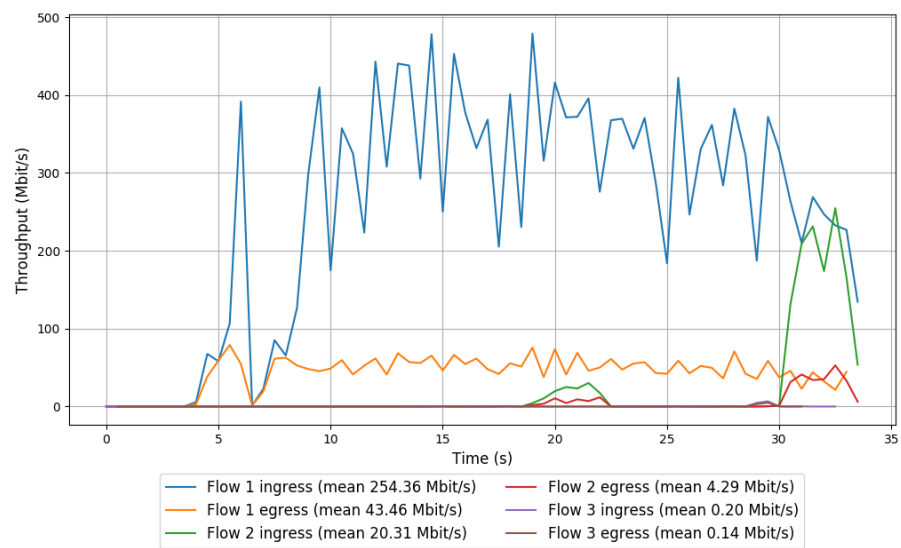
-- Flow 3:

Average throughput: 0.14 Mbit/s

95th percentile per-packet one-way delay: 61.310 ms

Loss rate: 30.74%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: Sat, 01 Jul 2017 12:40:23 +0000

End at: Sat, 01 Jul 2017 12:40:53 +0000

Local clock offset: 0.434 ms

Remote clock offset: -7.902 ms

Below is generated by plot.py at Sat, 01 Jul 2017 16:25:47 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 44.26 Mbit/s

95th percentile per-packet one-way delay: 73.630 ms

Loss rate: 79.66%

-- Flow 1:

Average throughput: 39.12 Mbit/s

95th percentile per-packet one-way delay: 72.221 ms

Loss rate: 80.43%

-- Flow 2:

Average throughput: 0.14 Mbit/s

95th percentile per-packet one-way delay: 67.248 ms

Loss rate: 45.07%

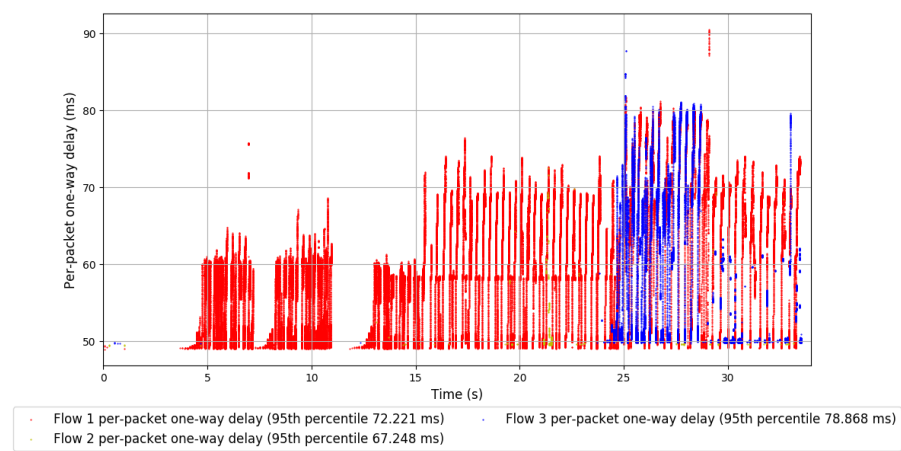
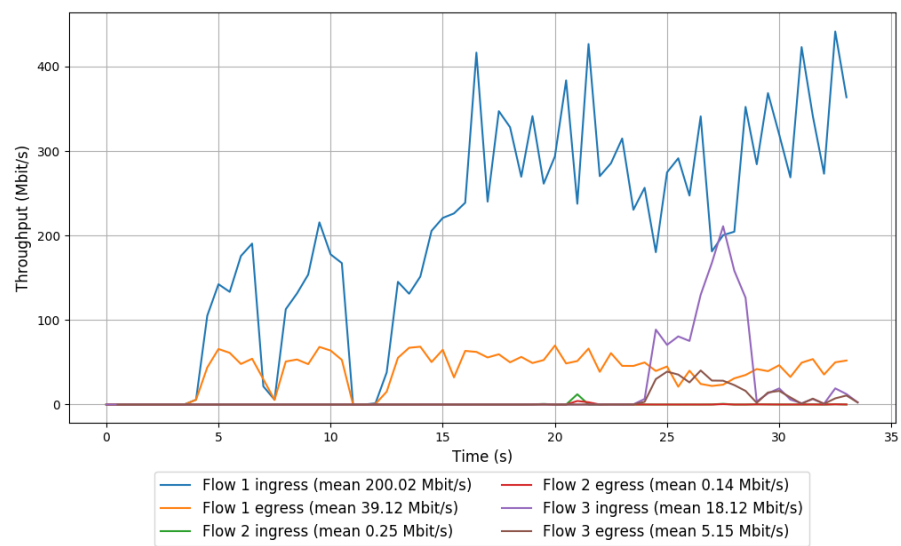
-- Flow 3:

Average throughput: 5.15 Mbit/s

95th percentile per-packet one-way delay: 78.868 ms

Loss rate: 71.65%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: Sat, 01 Jul 2017 12:58:59 +0000

End at: Sat, 01 Jul 2017 12:59:29 +0000

Local clock offset: 0.291 ms

Remote clock offset: -5.521 ms

Below is generated by plot.py at Sat, 01 Jul 2017 16:25:58 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 48.02 Mbit/s

95th percentile per-packet one-way delay: 76.661 ms

Loss rate: 81.83%

-- Flow 1:

Average throughput: 36.22 Mbit/s

95th percentile per-packet one-way delay: 77.252 ms

Loss rate: 84.74%

-- Flow 2:

Average throughput: 9.51 Mbit/s

95th percentile per-packet one-way delay: 74.458 ms

Loss rate: 46.12%

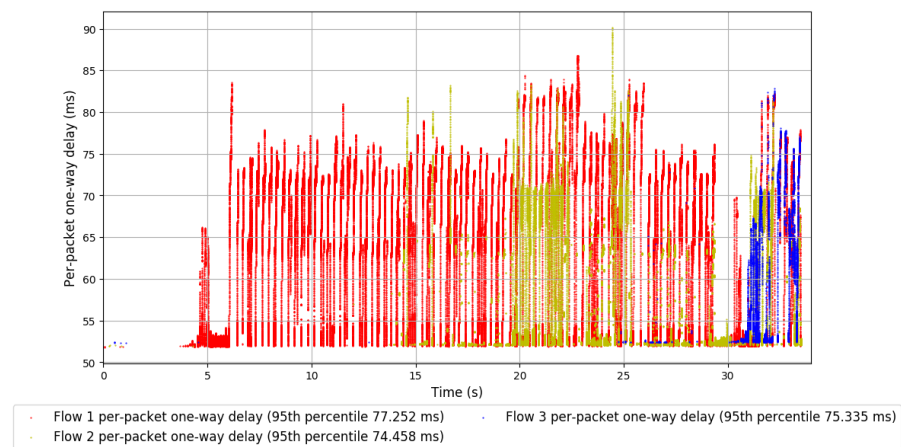
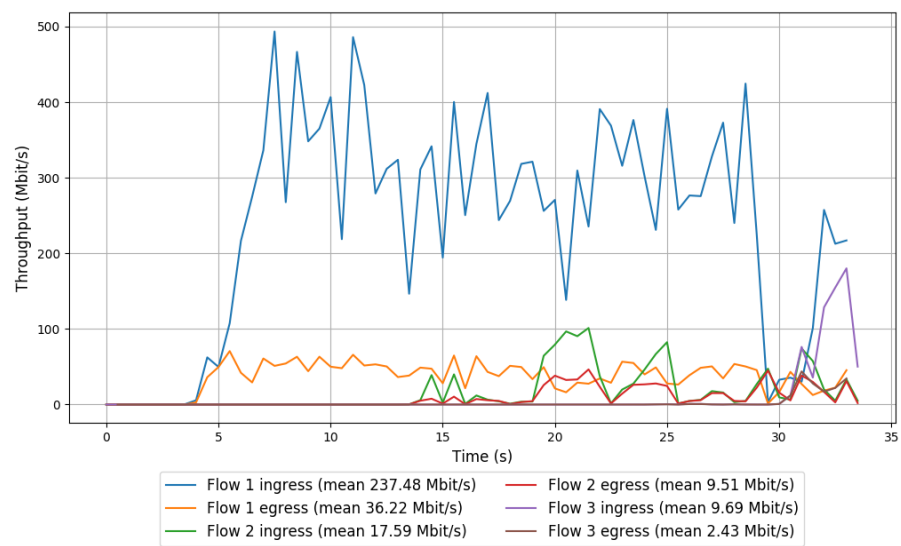
-- Flow 3:

Average throughput: 2.43 Mbit/s

95th percentile per-packet one-way delay: 75.335 ms

Loss rate: 75.06%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: Sat, 01 Jul 2017 13:17:36 +0000

End at: Sat, 01 Jul 2017 13:18:06 +0000

Local clock offset: 0.289 ms

Remote clock offset: -3.98 ms

Below is generated by plot.py at Sat, 01 Jul 2017 16:26:01 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 49.79 Mbit/s

95th percentile per-packet one-way delay: 76.815 ms

Loss rate: 82.01%

-- Flow 1:

Average throughput: 35.63 Mbit/s

95th percentile per-packet one-way delay: 77.036 ms

Loss rate: 82.22%

-- Flow 2:

Average throughput: 14.78 Mbit/s

95th percentile per-packet one-way delay: 76.057 ms

Loss rate: 81.58%

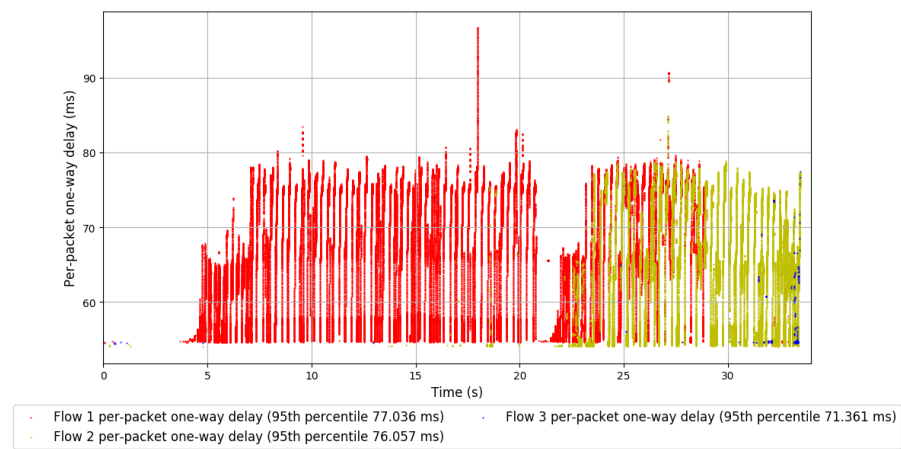
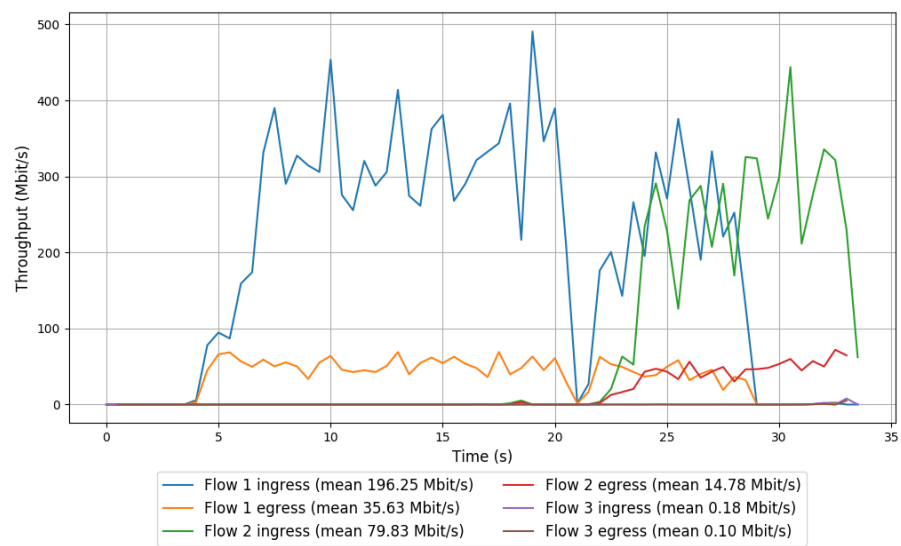
-- Flow 3:

Average throughput: 0.10 Mbit/s

95th percentile per-packet one-way delay: 71.361 ms

Loss rate: 43.58%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: Sat, 01 Jul 2017 13:36:24 +0000

End at: Sat, 01 Jul 2017 13:36:54 +0000

Local clock offset: 0.231 ms

Remote clock offset: -2.235 ms

Below is generated by plot.py at Sat, 01 Jul 2017 16:26:12 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 52.11 Mbit/s

95th percentile per-packet one-way delay: 77.392 ms

Loss rate: 70.72%

-- Flow 1:

Average throughput: 40.80 Mbit/s

95th percentile per-packet one-way delay: 77.687 ms

Loss rate: 74.17%

-- Flow 2:

Average throughput: 9.85 Mbit/s

95th percentile per-packet one-way delay: 70.545 ms

Loss rate: 44.64%

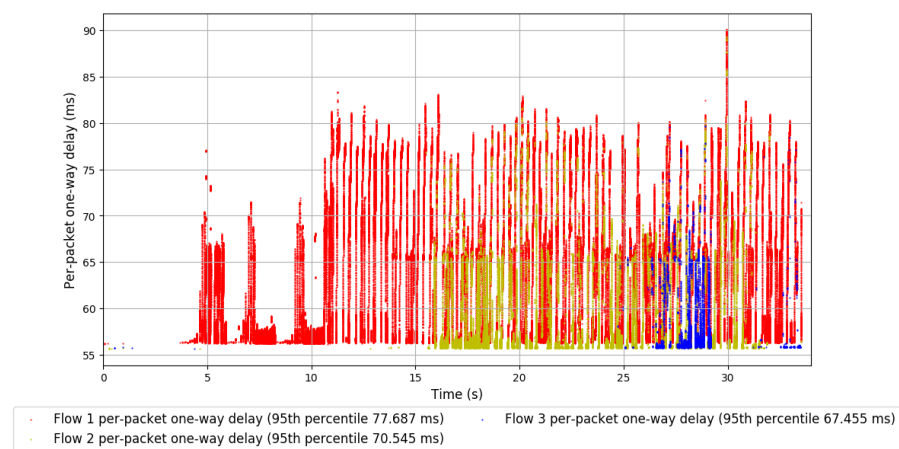
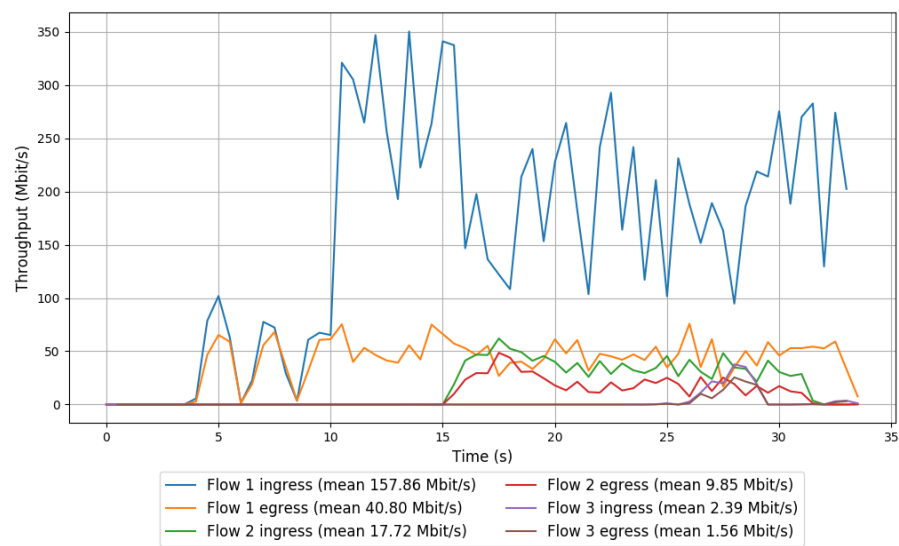
-- Flow 3:

Average throughput: 1.56 Mbit/s

95th percentile per-packet one-way delay: 67.455 ms

Loss rate: 34.82%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: Sat, 01 Jul 2017 13:54:52 +0000

End at: Sat, 01 Jul 2017 13:55:22 +0000

Local clock offset: 0.209 ms

Remote clock offset: -2.418 ms

Below is generated by plot.py at Sat, 01 Jul 2017 16:26:12 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 46.69 Mbit/s

95th percentile per-packet one-way delay: 79.247 ms

Loss rate: 63.50%

-- Flow 1:

Average throughput: 28.62 Mbit/s

95th percentile per-packet one-way delay: 80.608 ms

Loss rate: 71.93%

-- Flow 2:

Average throughput: 15.72 Mbit/s

95th percentile per-packet one-way delay: 73.657 ms

Loss rate: 28.76%

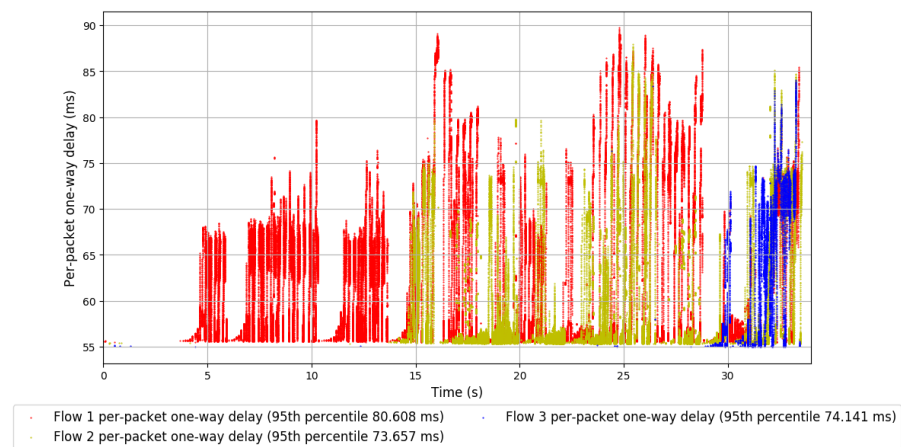
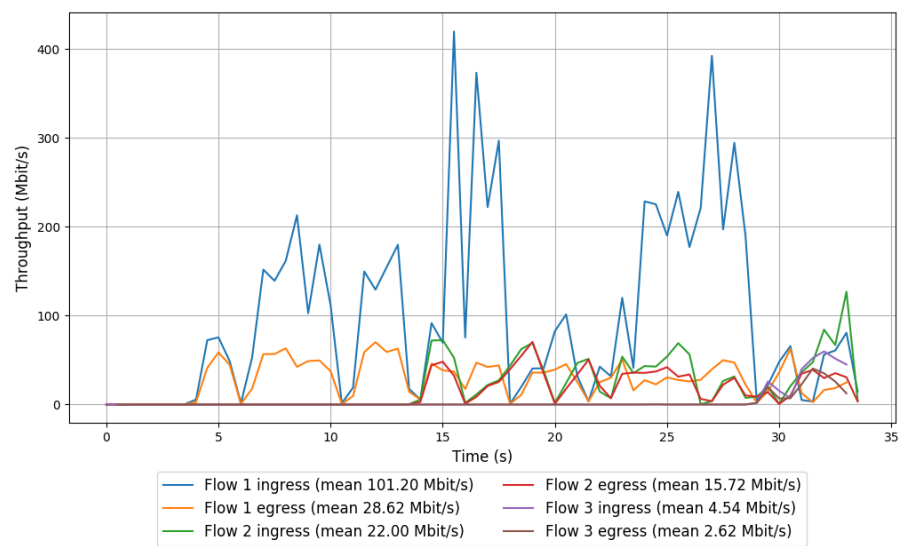
-- Flow 3:

Average throughput: 2.62 Mbit/s

95th percentile per-packet one-way delay: 74.141 ms

Loss rate: 42.42%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: Sat, 01 Jul 2017 14:13:31 +0000

End at: Sat, 01 Jul 2017 14:14:01 +0000

Local clock offset: 0.184 ms

Remote clock offset: -6.23 ms

Below is generated by plot.py at Sat, 01 Jul 2017 16:26:24 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 47.44 Mbit/s

95th percentile per-packet one-way delay: 72.744 ms

Loss rate: 78.66%

-- Flow 1:

Average throughput: 43.14 Mbit/s

95th percentile per-packet one-way delay: 72.498 ms

Loss rate: 79.19%

-- Flow 2:

Average throughput: 3.11 Mbit/s

95th percentile per-packet one-way delay: 74.010 ms

Loss rate: 75.63%

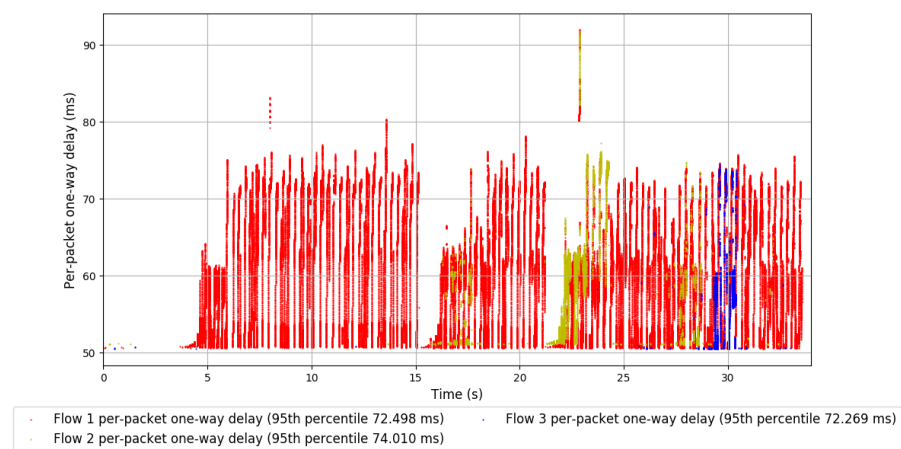
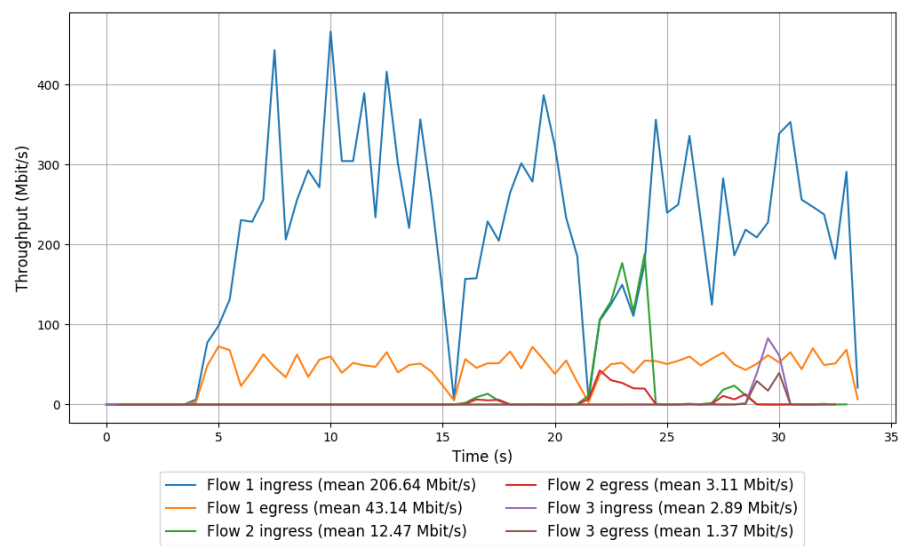
-- Flow 3:

Average throughput: 1.37 Mbit/s

95th percentile per-packet one-way delay: 72.269 ms

Loss rate: 52.77%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: Sat, 01 Jul 2017 14:32:04 +0000

End at: Sat, 01 Jul 2017 14:32:34 +0000

Local clock offset: 0.161 ms

Remote clock offset: -6.905 ms

Below is generated by plot.py at Sat, 01 Jul 2017 16:26:24 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 45.98 Mbit/s

95th percentile per-packet one-way delay: 74.827 ms

Loss rate: 78.92%

-- Flow 1:

Average throughput: 37.08 Mbit/s

95th percentile per-packet one-way delay: 74.065 ms

Loss rate: 77.73%

-- Flow 2:

Average throughput: 9.10 Mbit/s

95th percentile per-packet one-way delay: 76.026 ms

Loss rate: 82.80%

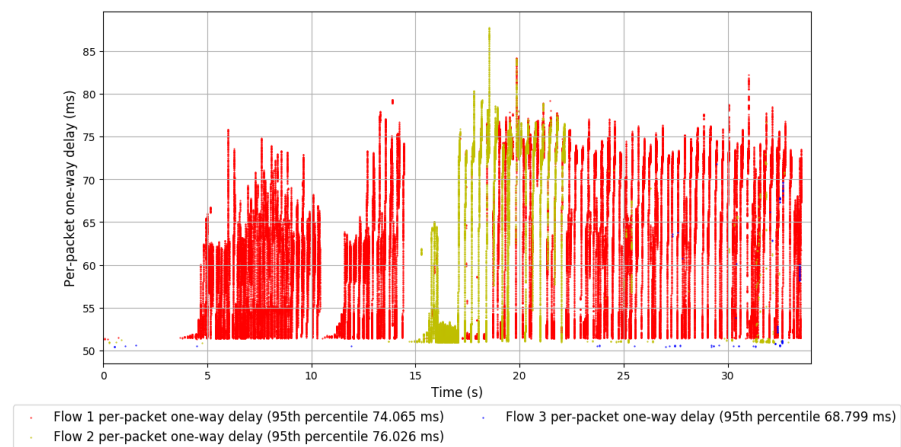
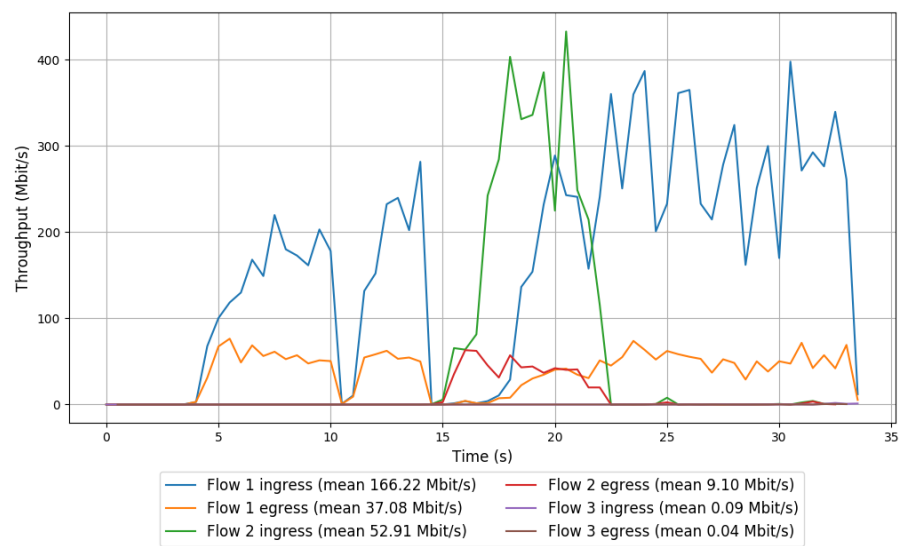
-- Flow 3:

Average throughput: 0.04 Mbit/s

95th percentile per-packet one-way delay: 68.799 ms

Loss rate: 61.50%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: Sat, 01 Jul 2017 14:50:36 +0000

End at: Sat, 01 Jul 2017 14:51:06 +0000

Local clock offset: 0.149 ms

Remote clock offset: -5.368 ms

Below is generated by plot.py at Sat, 01 Jul 2017 16:26:34 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 46.12 Mbit/s

95th percentile per-packet one-way delay: 73.657 ms

Loss rate: 71.33%

-- Flow 1:

Average throughput: 43.73 Mbit/s

95th percentile per-packet one-way delay: 73.729 ms

Loss rate: 72.26%

-- Flow 2:

Average throughput: 2.45 Mbit/s

95th percentile per-packet one-way delay: 62.725 ms

Loss rate: 24.39%

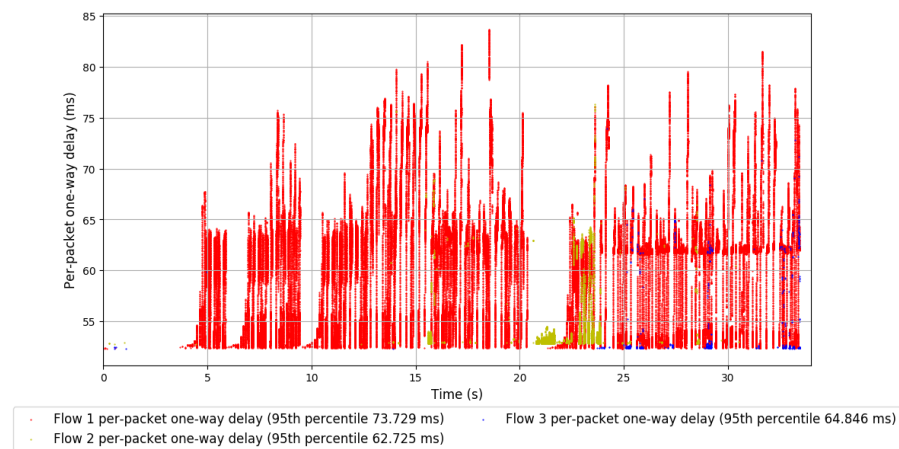
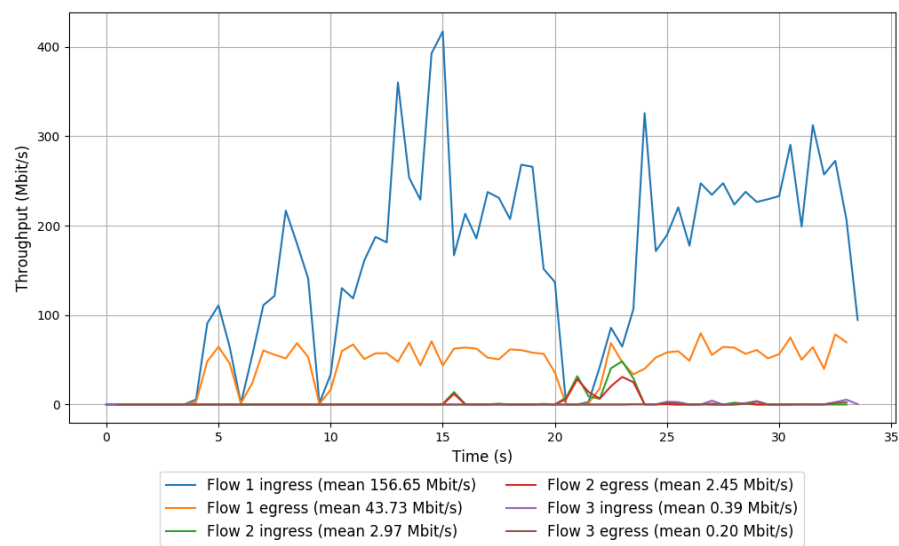
-- Flow 3:

Average throughput: 0.20 Mbit/s

95th percentile per-packet one-way delay: 64.846 ms

Loss rate: 48.66%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: Sat, 01 Jul 2017 15:08:57 +0000

End at: Sat, 01 Jul 2017 15:09:27 +0000

Local clock offset: 0.034 ms

Remote clock offset: -7.472 ms

Below is generated by plot.py at Sat, 01 Jul 2017 16:26:35 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 45.55 Mbit/s

95th percentile per-packet one-way delay: 73.028 ms

Loss rate: 70.90%

-- Flow 1:

Average throughput: 42.12 Mbit/s

95th percentile per-packet one-way delay: 73.097 ms

Loss rate: 71.91%

-- Flow 2:

Average throughput: 2.37 Mbit/s

95th percentile per-packet one-way delay: 68.902 ms

Loss rate: 51.60%

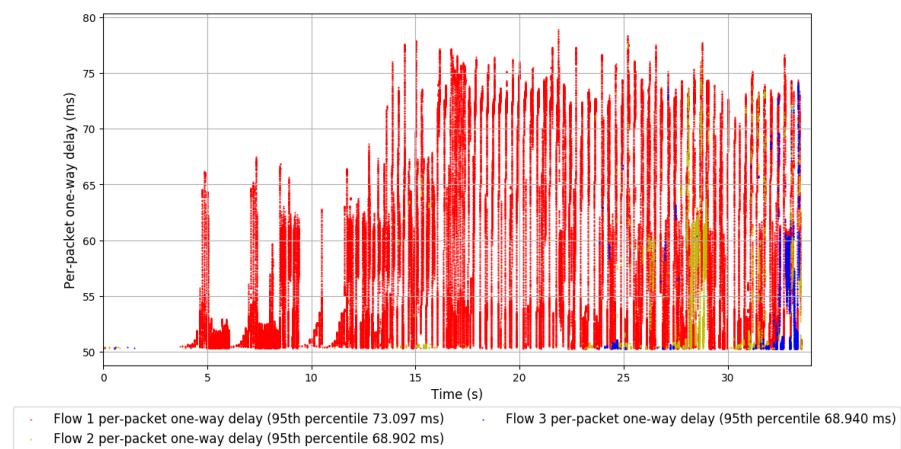
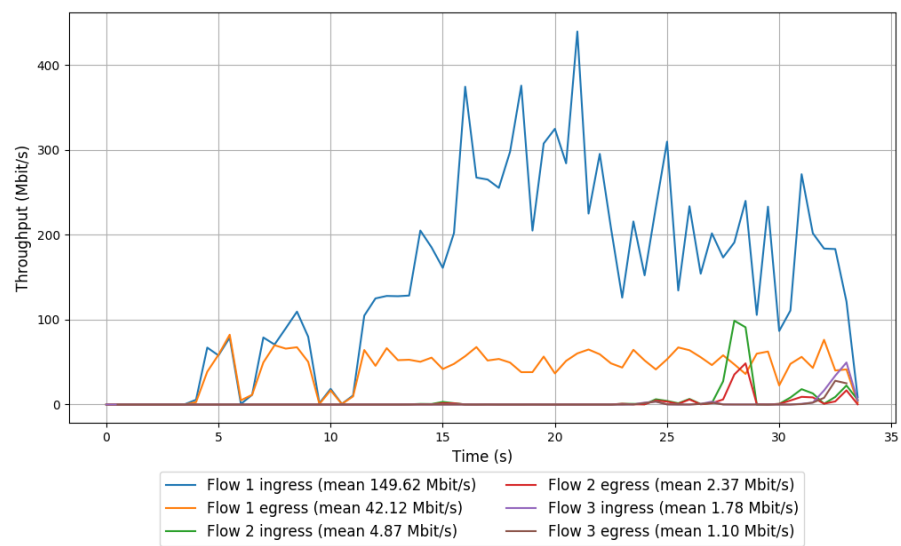
-- Flow 3:

Average throughput: 1.10 Mbit/s

95th percentile per-packet one-way delay: 68.940 ms

Loss rate: 38.72%

Run 10: Report of Verus — Data Link



Run 1: Statistics of WebRTC media

Start at: Sat, 01 Jul 2017 12:25:23 +0000

End at: Sat, 01 Jul 2017 12:25:53 +0000

Local clock offset: 0.504 ms

Remote clock offset: -9.333 ms

Below is generated by plot.py at Sat, 01 Jul 2017 16:26:36 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.85 Mbit/s

95th percentile per-packet one-way delay: 49.420 ms

Loss rate: 0.79%

-- Flow 1:

Average throughput: 2.11 Mbit/s

95th percentile per-packet one-way delay: 49.057 ms

Loss rate: 0.40%

-- Flow 2:

Average throughput: 1.30 Mbit/s

95th percentile per-packet one-way delay: 49.602 ms

Loss rate: 1.07%

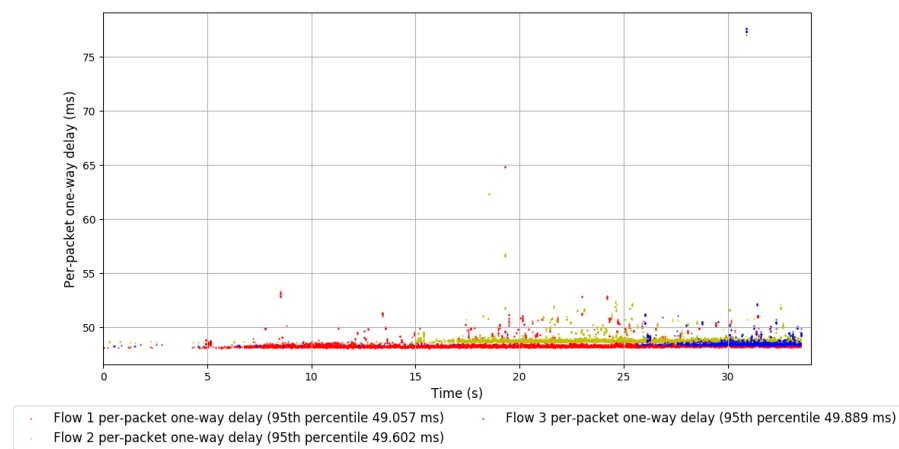
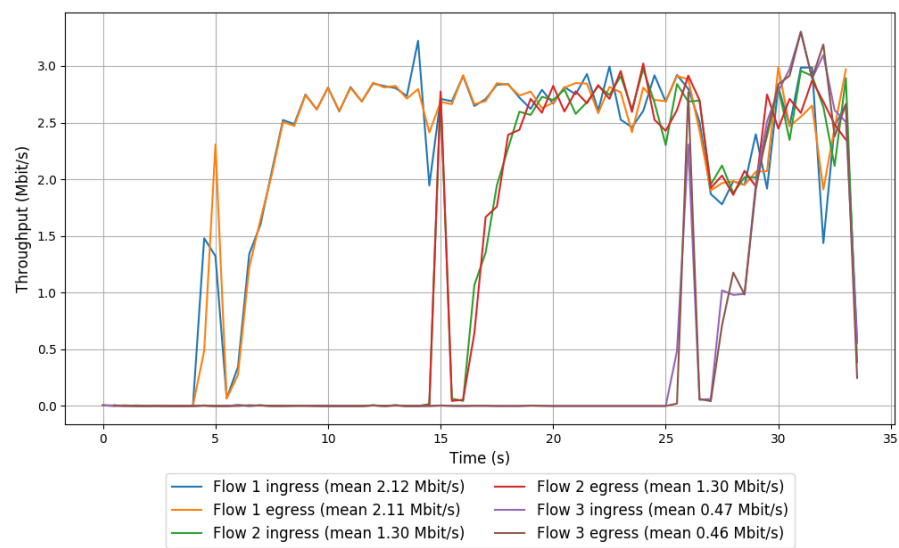
-- Flow 3:

Average throughput: 0.46 Mbit/s

95th percentile per-packet one-way delay: 49.889 ms

Loss rate: 1.80%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: Sat, 01 Jul 2017 12:44:06 +0000

End at: Sat, 01 Jul 2017 12:44:36 +0000

Local clock offset: 0.444 ms

Remote clock offset: -7.569 ms

Below is generated by plot.py at Sat, 01 Jul 2017 16:26:37 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.69 Mbit/s

95th percentile per-packet one-way delay: 51.302 ms

Loss rate: 0.55%

-- Flow 1:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 50.490 ms

Loss rate: 0.40%

-- Flow 2:

Average throughput: 1.30 Mbit/s

95th percentile per-packet one-way delay: 51.862 ms

Loss rate: 0.44%

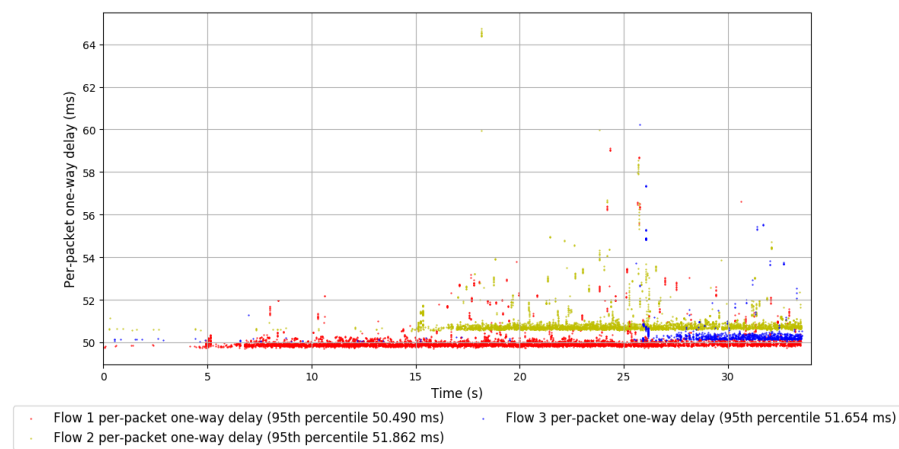
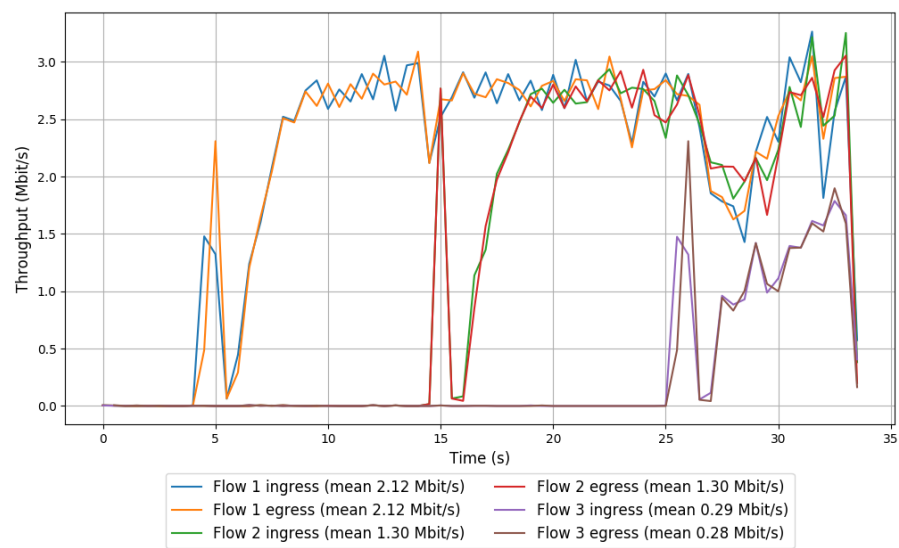
-- Flow 3:

Average throughput: 0.28 Mbit/s

95th percentile per-packet one-way delay: 51.654 ms

Loss rate: 2.12%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: Sat, 01 Jul 2017 13:02:50 +0000

End at: Sat, 01 Jul 2017 13:03:20 +0000

Local clock offset: 0.302 ms

Remote clock offset: -5.034 ms

Below is generated by plot.py at Sat, 01 Jul 2017 16:26:38 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.89 Mbit/s

95th percentile per-packet one-way delay: 54.423 ms

Loss rate: 0.81%

-- Flow 1:

Average throughput: 2.10 Mbit/s

95th percentile per-packet one-way delay: 53.799 ms

Loss rate: 0.32%

-- Flow 2:

Average throughput: 1.32 Mbit/s

95th percentile per-packet one-way delay: 54.965 ms

Loss rate: 1.16%

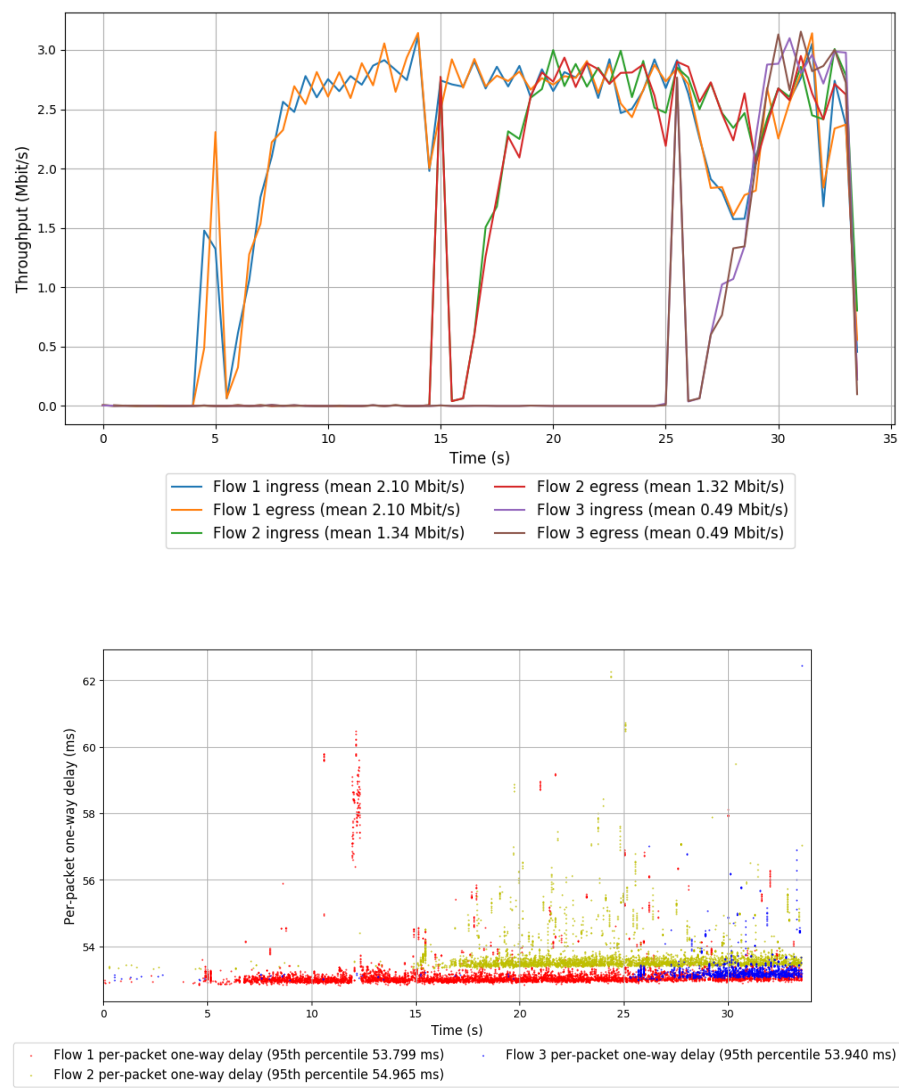
-- Flow 3:

Average throughput: 0.49 Mbit/s

95th percentile per-packet one-way delay: 53.940 ms

Loss rate: 1.96%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: Sat, 01 Jul 2017 13:21:28 +0000

End at: Sat, 01 Jul 2017 13:21:58 +0000

Local clock offset: 0.171 ms

Remote clock offset: -3.919 ms

Below is generated by plot.py at Sat, 01 Jul 2017 16:26:39 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.87 Mbit/s

95th percentile per-packet one-way delay: 55.123 ms

Loss rate: 0.82%

-- Flow 1:

Average throughput: 2.10 Mbit/s

95th percentile per-packet one-way delay: 55.228 ms

Loss rate: 0.37%

-- Flow 2:

Average throughput: 1.29 Mbit/s

95th percentile per-packet one-way delay: 54.923 ms

Loss rate: 0.87%

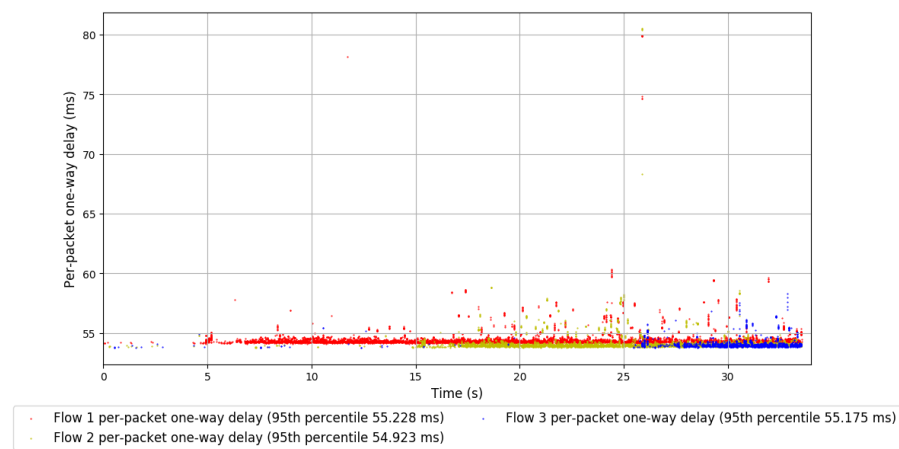
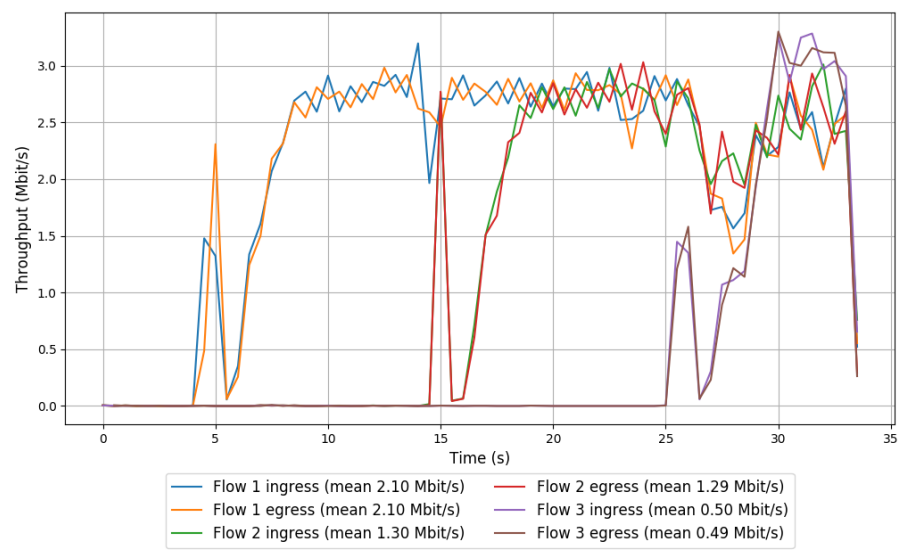
-- Flow 3:

Average throughput: 0.49 Mbit/s

95th percentile per-packet one-way delay: 55.175 ms

Loss rate: 2.59%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: Sat, 01 Jul 2017 13:40:07 +0000

End at: Sat, 01 Jul 2017 13:40:37 +0000

Local clock offset: 0.239 ms

Remote clock offset: -2.192 ms

Below is generated by plot.py at Sat, 01 Jul 2017 16:26:39 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.88 Mbit/s

95th percentile per-packet one-way delay: 57.114 ms

Loss rate: 0.58%

-- Flow 1:

Average throughput: 2.14 Mbit/s

95th percentile per-packet one-way delay: 57.548 ms

Loss rate: 0.33%

-- Flow 2:

Average throughput: 1.31 Mbit/s

95th percentile per-packet one-way delay: 56.684 ms

Loss rate: 0.46%

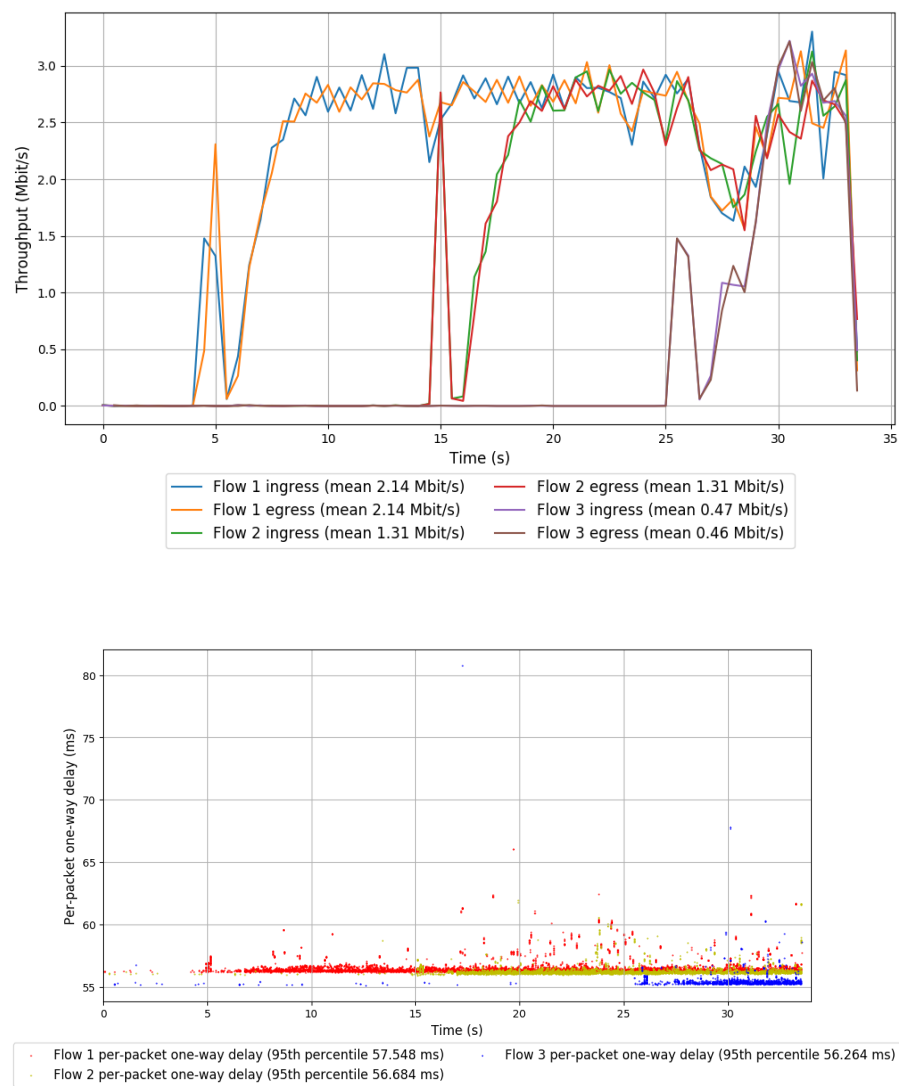
-- Flow 3:

Average throughput: 0.46 Mbit/s

95th percentile per-packet one-way delay: 56.264 ms

Loss rate: 2.04%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: Sat, 01 Jul 2017 13:58:31 +0000

End at: Sat, 01 Jul 2017 13:59:01 +0000

Local clock offset: 0.209 ms

Remote clock offset: -3.167 ms

Below is generated by plot.py at Sat, 01 Jul 2017 16:26:41 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.92 Mbit/s

95th percentile per-packet one-way delay: 55.815 ms

Loss rate: 0.84%

-- Flow 1:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 55.683 ms

Loss rate: 0.49%

-- Flow 2:

Average throughput: 1.34 Mbit/s

95th percentile per-packet one-way delay: 55.885 ms

Loss rate: 0.92%

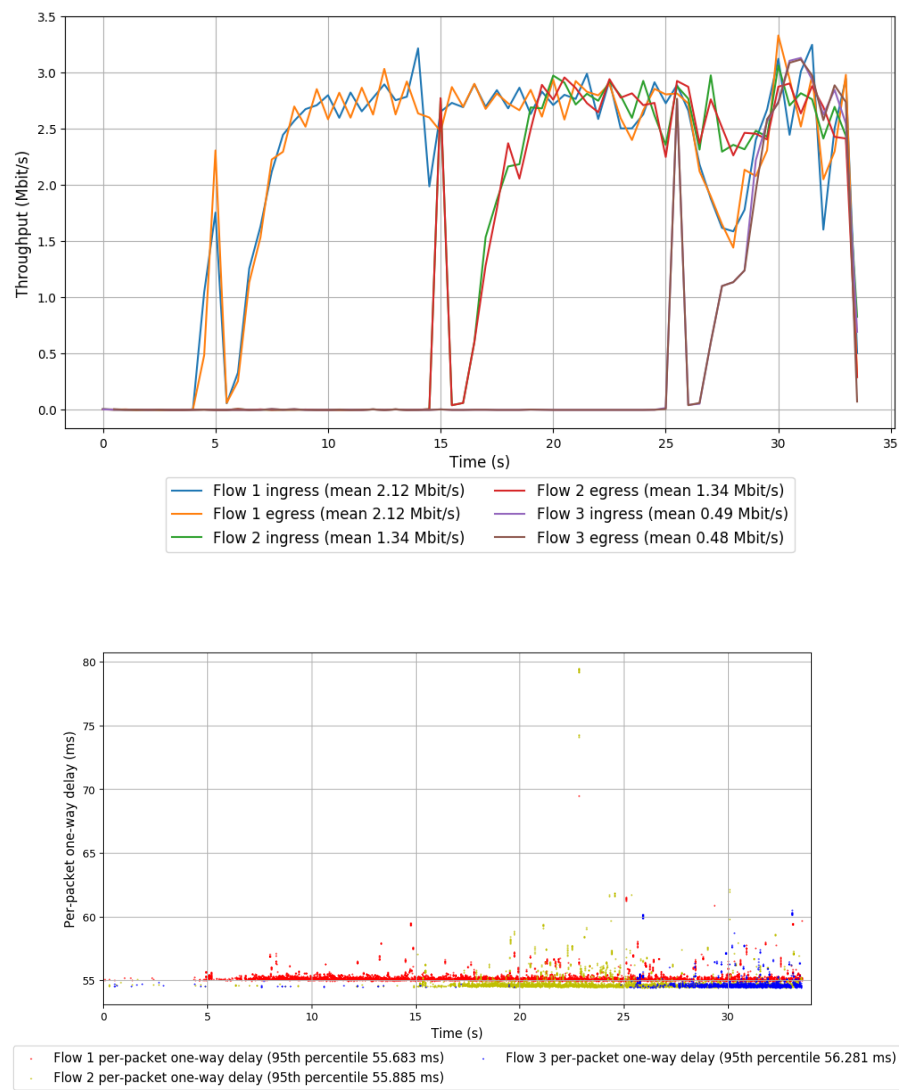
-- Flow 3:

Average throughput: 0.48 Mbit/s

95th percentile per-packet one-way delay: 56.281 ms

Loss rate: 2.14%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: Sat, 01 Jul 2017 14:17:16 +0000

End at: Sat, 01 Jul 2017 14:17:46 +0000

Local clock offset: 0.088 ms

Remote clock offset: -7.366 ms

Below is generated by plot.py at Sat, 01 Jul 2017 16:26:42 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.86 Mbit/s

95th percentile per-packet one-way delay: 51.469 ms

Loss rate: 0.74%

-- Flow 1:

Average throughput: 2.13 Mbit/s

95th percentile per-packet one-way delay: 50.841 ms

Loss rate: 0.47%

-- Flow 2:

Average throughput: 1.29 Mbit/s

95th percentile per-packet one-way delay: 51.770 ms

Loss rate: 0.63%

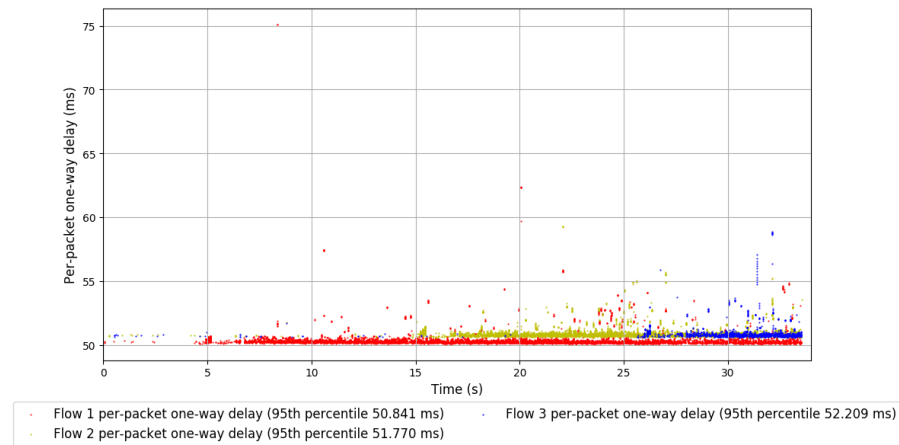
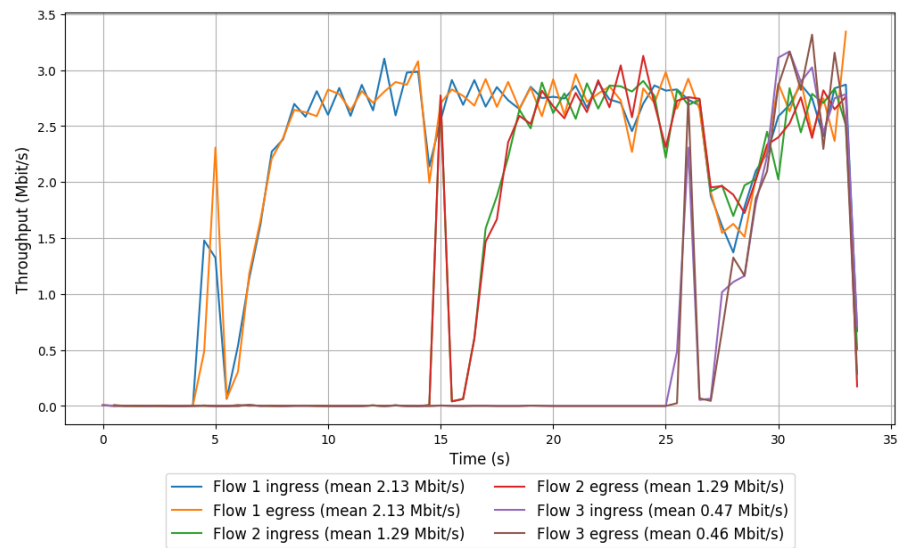
-- Flow 3:

Average throughput: 0.46 Mbit/s

95th percentile per-packet one-way delay: 52.209 ms

Loss rate: 2.28%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: Sat, 01 Jul 2017 14:35:46 +0000

End at: Sat, 01 Jul 2017 14:36:16 +0000

Local clock offset: 0.079 ms

Remote clock offset: -6.592 ms

Below is generated by plot.py at Sat, 01 Jul 2017 16:26:43 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.89 Mbit/s

95th percentile per-packet one-way delay: 52.925 ms

Loss rate: 0.71%

-- Flow 1:

Average throughput: 2.11 Mbit/s

95th percentile per-packet one-way delay: 52.711 ms

Loss rate: 0.57%

-- Flow 2:

Average throughput: 1.32 Mbit/s

95th percentile per-packet one-way delay: 53.051 ms

Loss rate: 0.61%

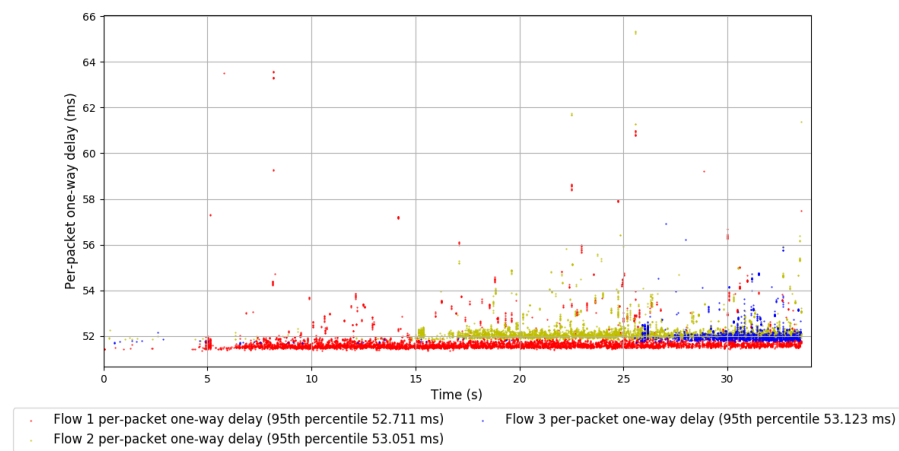
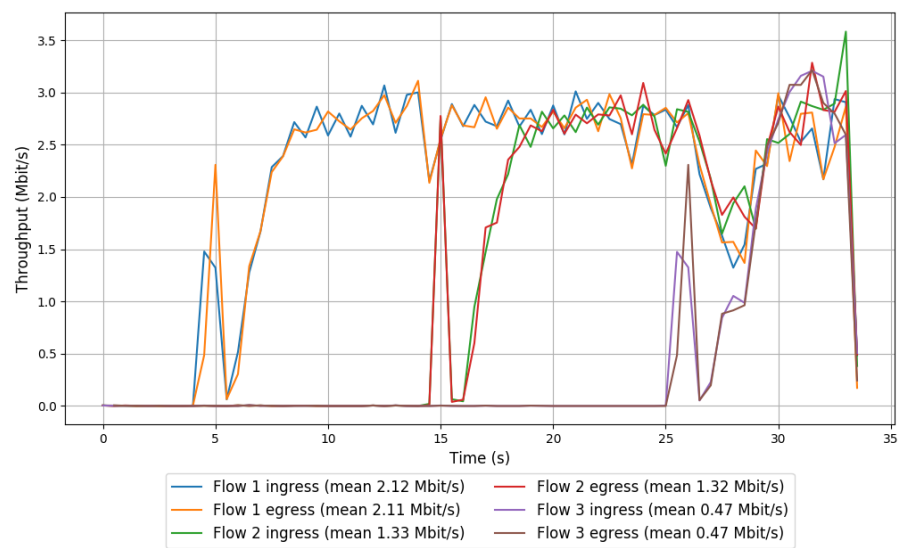
-- Flow 3:

Average throughput: 0.47 Mbit/s

95th percentile per-packet one-way delay: 53.123 ms

Loss rate: 1.62%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: Sat, 01 Jul 2017 14:54:17 +0000

End at: Sat, 01 Jul 2017 14:54:47 +0000

Local clock offset: 0.101 ms

Remote clock offset: -5.49 ms

Below is generated by plot.py at Sat, 01 Jul 2017 16:26:44 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.92 Mbit/s

95th percentile per-packet one-way delay: 53.752 ms

Loss rate: 0.86%

-- Flow 1:

Average throughput: 2.14 Mbit/s

95th percentile per-packet one-way delay: 53.482 ms

Loss rate: 0.29%

-- Flow 2:

Average throughput: 1.31 Mbit/s

95th percentile per-packet one-way delay: 54.172 ms

Loss rate: 1.34%

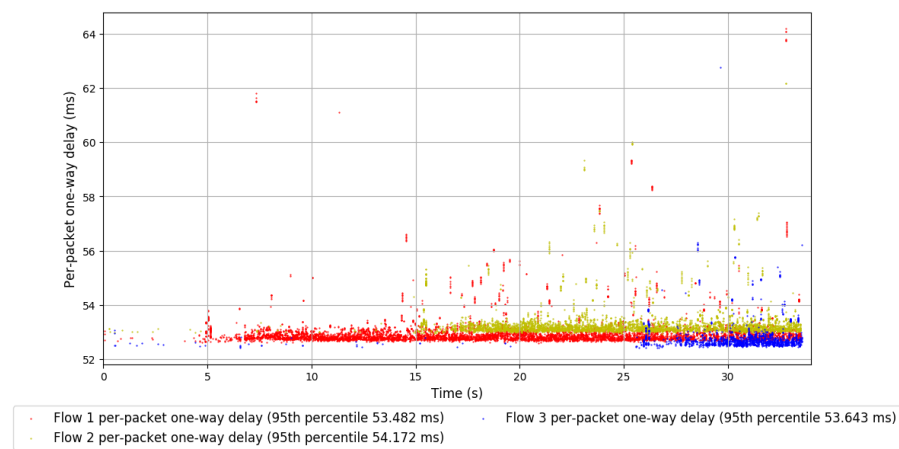
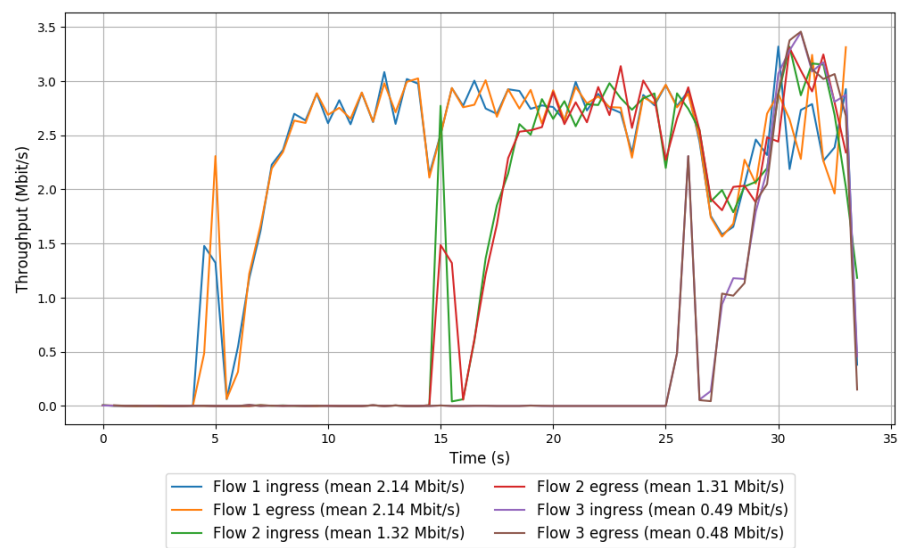
-- Flow 3:

Average throughput: 0.48 Mbit/s

95th percentile per-packet one-way delay: 53.643 ms

Loss rate: 2.11%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: Sat, 01 Jul 2017 15:12:39 +0000

End at: Sat, 01 Jul 2017 15:13:09 +0000

Local clock offset: 0.079 ms

Remote clock offset: -8.089 ms

Below is generated by plot.py at Sat, 01 Jul 2017 16:26:44 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.99 Mbit/s

95th percentile per-packet one-way delay: 50.625 ms

Loss rate: 0.71%

-- Flow 1:

Average throughput: 2.18 Mbit/s

95th percentile per-packet one-way delay: 50.295 ms

Loss rate: 0.63%

-- Flow 2:

Average throughput: 1.32 Mbit/s

95th percentile per-packet one-way delay: 50.712 ms

Loss rate: 0.43%

-- Flow 3:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 50.761 ms

Loss rate: 1.82%

Run 10: Report of WebRTC media — Data Link

