

**Pantheon Summary** (Generated at Wed, 05 Jul 2017 05:09:36 +0000 with pantheon version afeabcbf9f0bccb7f5555428c3b5bcceec857e76)

Repeated the test of 15 congestion control schemes 10 times.

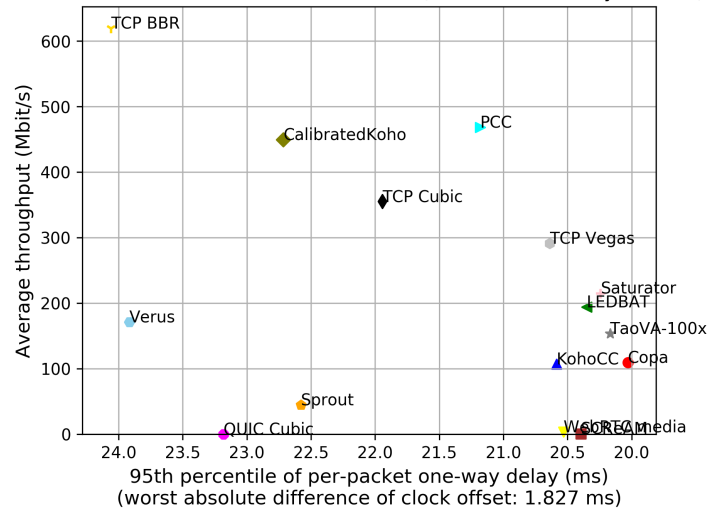
Each test lasted for 30 seconds running 3 flows with 10-second interval between two flows.

Data path **from** AWS California 1 Ethernet **to** Stanford Ethernet.

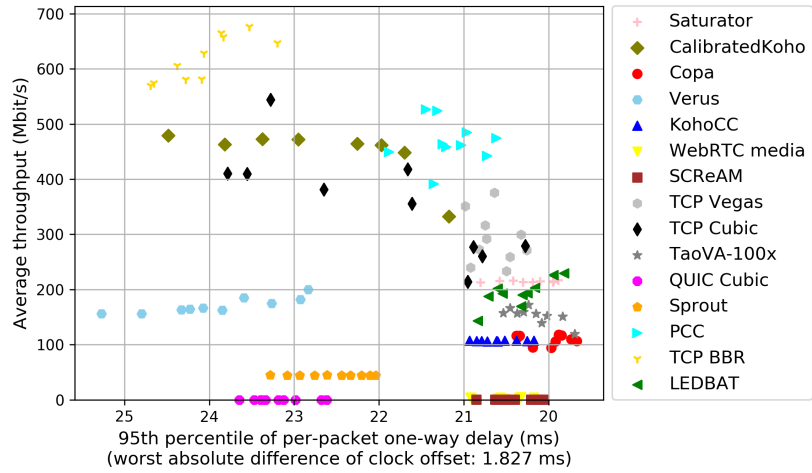
NTP offset measured against time.stanford.edu.

```
git branch: master @ afeabcbf9f0bccb7f5555428c3b5bcceec857e76
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 AWS California 1 Ethernet to Stanford Ethernet, 10 runs of 30s each per scheme  
3 flows with 10s interval between flows (mean of all runs by scheme)

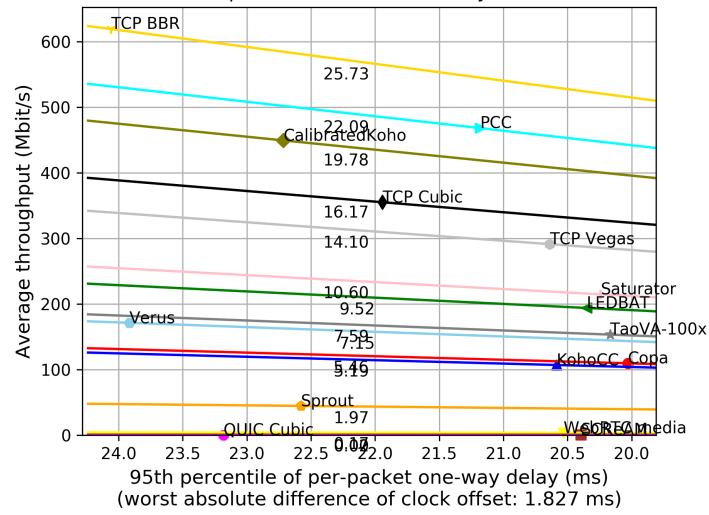


test from AWS California 1 Ethernet to Stanford Ethernet, 10 runs of 30s each per scheme  
3 flows with 10s interval between flows





test from AWS California 1 Ethernet to Stanford Ethernet, 10 runs of 30s each per scheme  
 3 flows with 10s interval between flows  
 mean power scores of all runs by scheme



Run 1: Statistics of TCP BBR

Start at: Tue, 04 Jul 2017 18:49:24 +0000

End at: Tue, 04 Jul 2017 18:49:54 +0000

Local clock offset: 0.512 ms

Remote clock offset: -0.827 ms

# Below is generated by plot.py at Wed, 05 Jul 2017 04:30:29 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 676.99 Mbit/s

95th percentile per-packet one-way delay: 23.529 ms

Loss rate: 1.91%

-- Flow 1:

Average throughput: 387.66 Mbit/s

95th percentile per-packet one-way delay: 23.376 ms

Loss rate: 3.08%

-- Flow 2:

Average throughput: 203.69 Mbit/s

95th percentile per-packet one-way delay: 23.547 ms

Loss rate: 0.33%

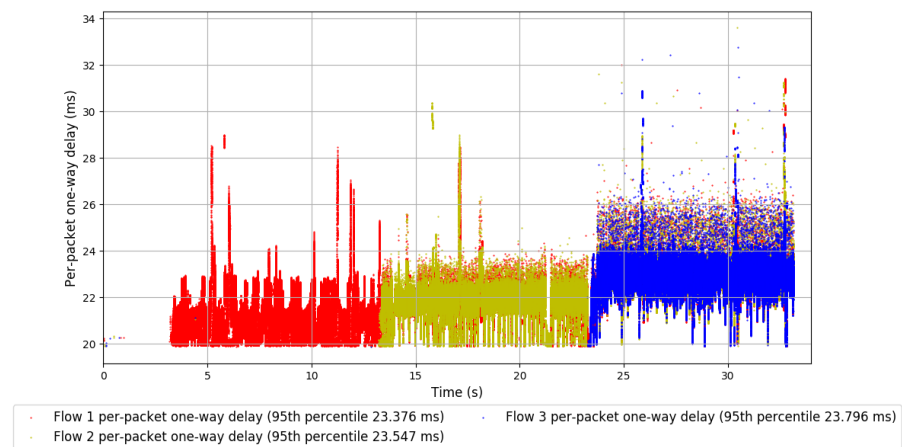
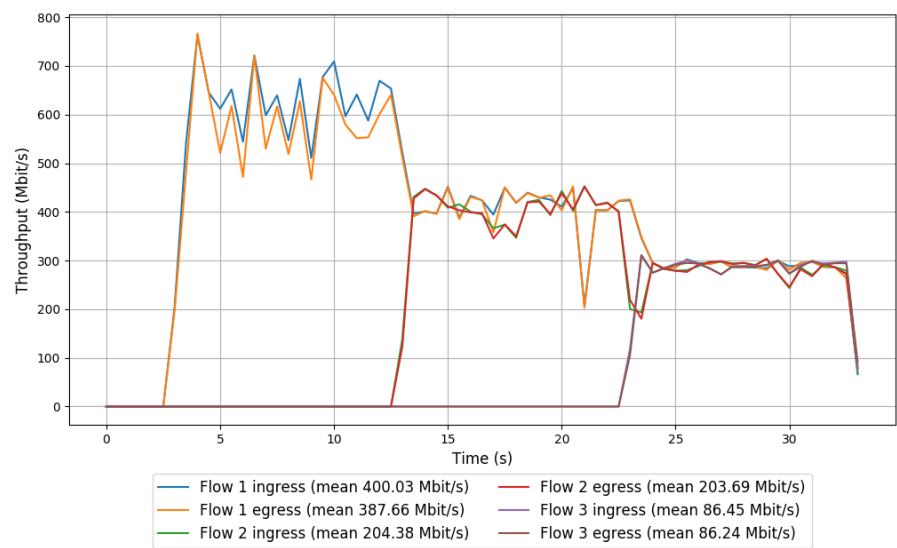
-- Flow 3:

Average throughput: 86.24 Mbit/s

95th percentile per-packet one-way delay: 23.796 ms

Loss rate: 0.24%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: Tue, 04 Jul 2017 19:10:22 +0000

End at: Tue, 04 Jul 2017 19:10:52 +0000

Local clock offset: 0.256 ms

Remote clock offset: -1.048 ms

# Below is generated by plot.py at Wed, 05 Jul 2017 04:30:35 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 665.31 Mbit/s

95th percentile per-packet one-way delay: 23.861 ms

Loss rate: 1.23%

-- Flow 1:

Average throughput: 383.75 Mbit/s

95th percentile per-packet one-way delay: 23.562 ms

Loss rate: 2.03%

-- Flow 2:

Average throughput: 199.40 Mbit/s

95th percentile per-packet one-way delay: 23.935 ms

Loss rate: 0.13%

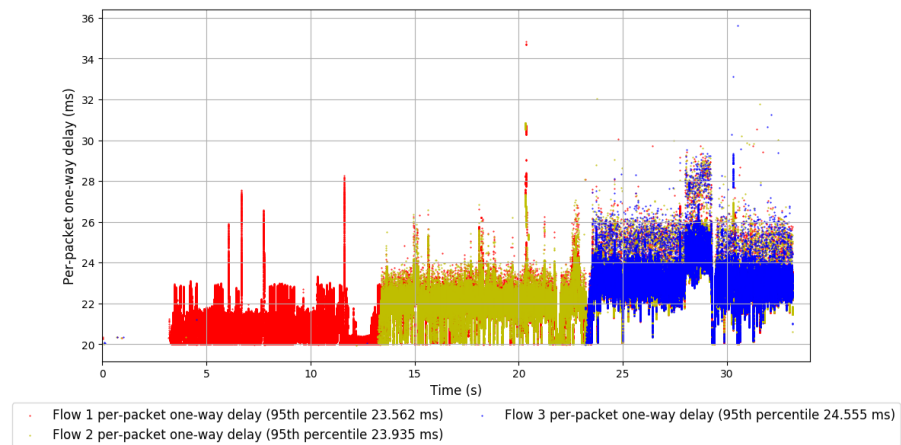
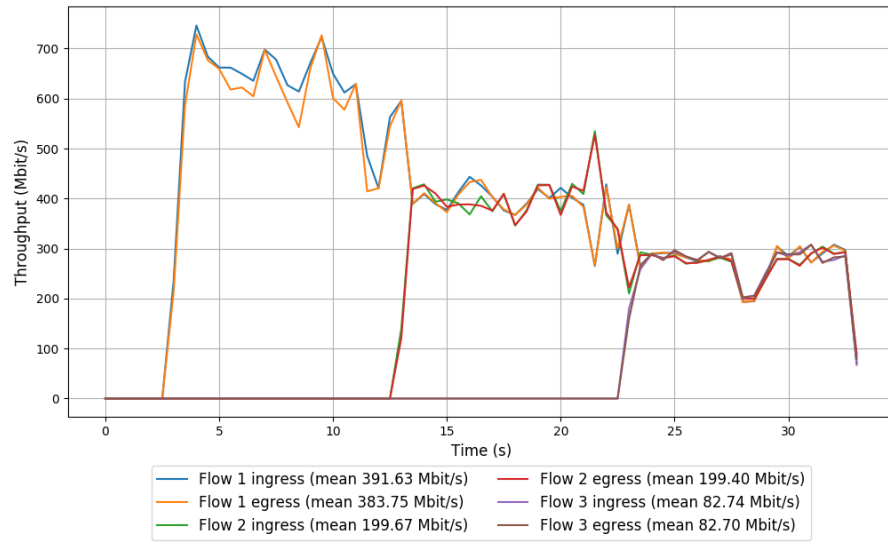
-- Flow 3:

Average throughput: 82.70 Mbit/s

95th percentile per-packet one-way delay: 24.555 ms

Loss rate: 0.04%

## Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: Tue, 04 Jul 2017 19:31:11 +0000

End at: Tue, 04 Jul 2017 19:31:41 +0000

Local clock offset: 0.092 ms

Remote clock offset: -1.379 ms

# Below is generated by plot.py at Wed, 05 Jul 2017 04:31:54 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 574.40 Mbit/s

95th percentile per-packet one-way delay: 24.656 ms

Loss rate: 0.69%

-- Flow 1:

Average throughput: 329.71 Mbit/s

95th percentile per-packet one-way delay: 24.467 ms

Loss rate: 1.14%

-- Flow 2:

Average throughput: 174.51 Mbit/s

95th percentile per-packet one-way delay: 24.700 ms

Loss rate: 0.10%

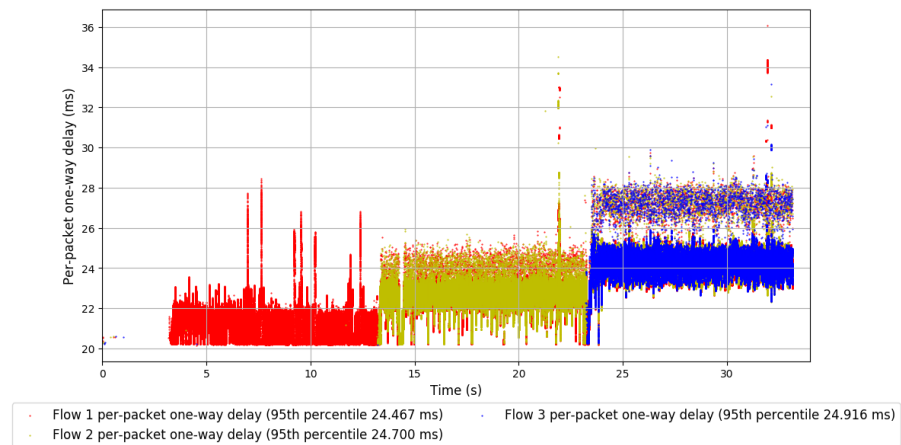
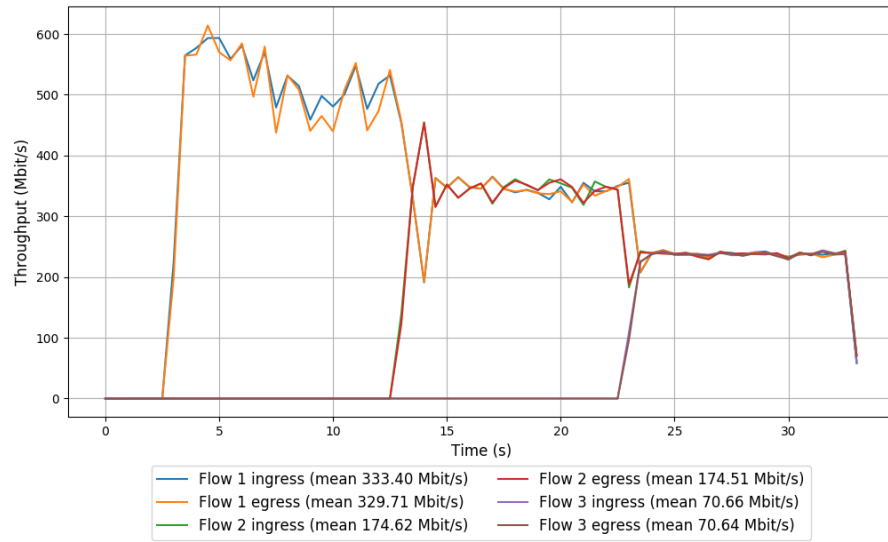
-- Flow 3:

Average throughput: 70.64 Mbit/s

95th percentile per-packet one-way delay: 24.916 ms

Loss rate: 0.07%

### Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: Tue, 04 Jul 2017 19:52:10 +0000

End at: Tue, 04 Jul 2017 19:52:40 +0000

Local clock offset: 0.03 ms

Remote clock offset: -1.174 ms

# Below is generated by plot.py at Wed, 05 Jul 2017 04:31:57 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 569.74 Mbit/s

95th percentile per-packet one-way delay: 24.694 ms

Loss rate: 0.17%

-- Flow 1:

Average throughput: 338.46 Mbit/s

95th percentile per-packet one-way delay: 24.479 ms

Loss rate: 0.29%

-- Flow 2:

Average throughput: 164.65 Mbit/s

95th percentile per-packet one-way delay: 24.729 ms

Loss rate: 0.00%

-- Flow 3:

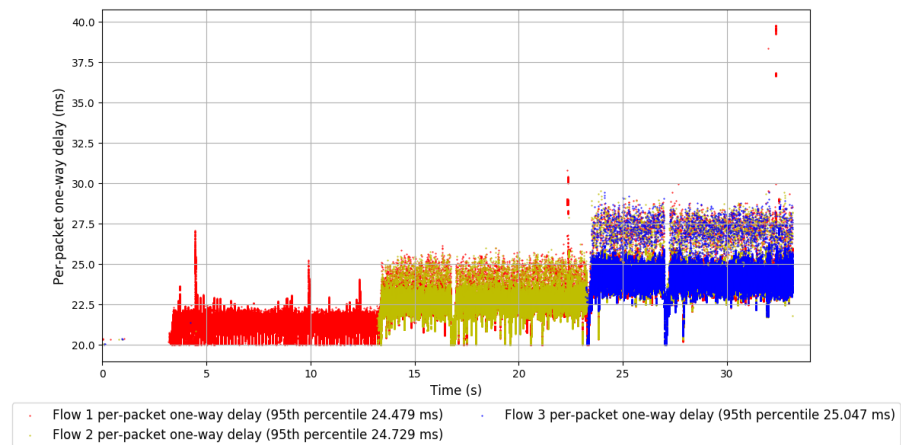
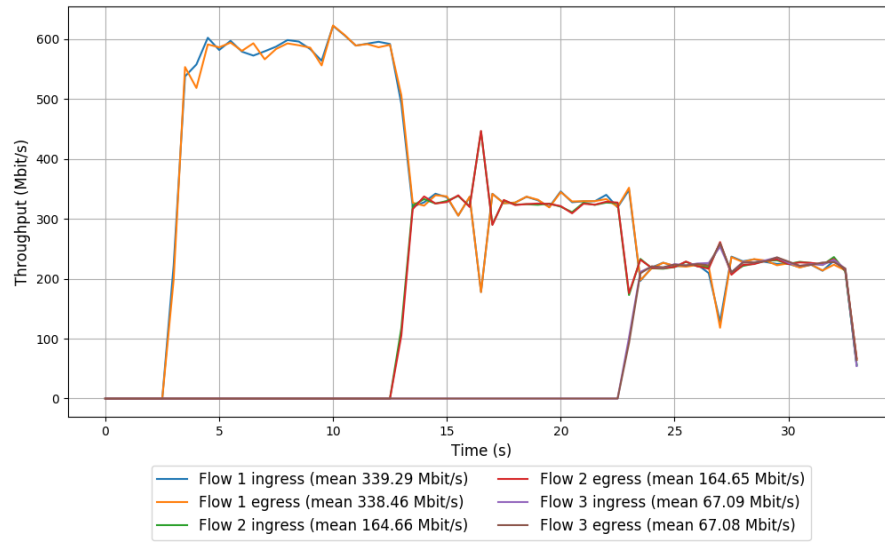
Average throughput: 67.08 Mbit/s

95th percentile per-packet one-way delay: 25.047 ms

Loss rate: 0.02%



# Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: Tue, 04 Jul 2017 20:12:53 +0000

End at: Tue, 04 Jul 2017 20:13:23 +0000

Local clock offset: 0.062 ms

Remote clock offset: -1.008 ms

# Below is generated by plot.py at Wed, 05 Jul 2017 04:33:15 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 580.73 Mbit/s

95th percentile per-packet one-way delay: 24.277 ms

Loss rate: 0.35%

-- Flow 1:

Average throughput: 340.19 Mbit/s

95th percentile per-packet one-way delay: 24.098 ms

Loss rate: 0.58%

-- Flow 2:

Average throughput: 171.34 Mbit/s

95th percentile per-packet one-way delay: 24.323 ms

Loss rate: 0.02%

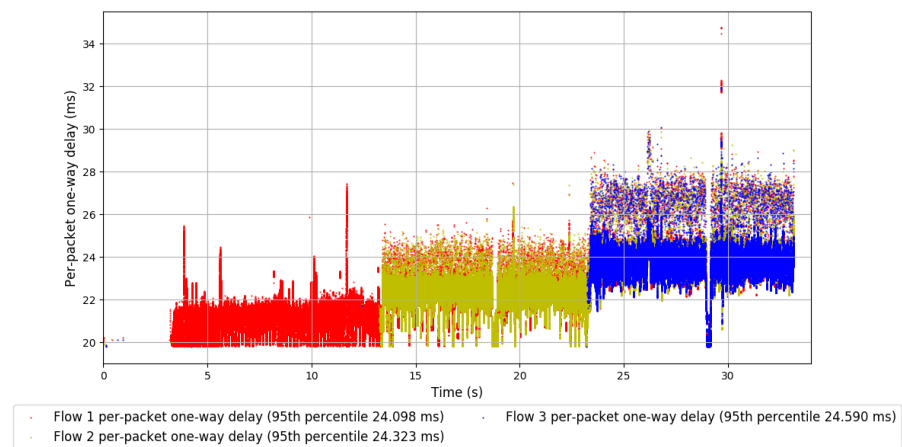
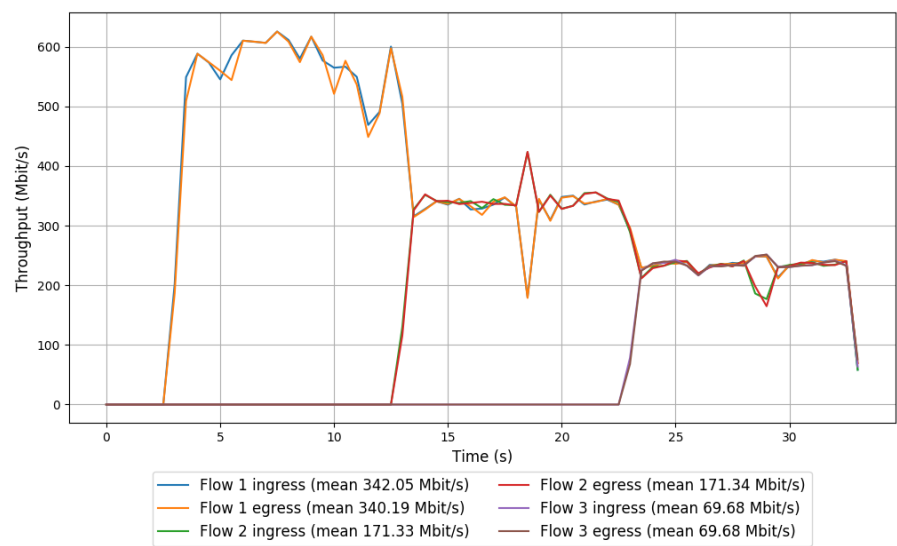
-- Flow 3:

Average throughput: 69.68 Mbit/s

95th percentile per-packet one-way delay: 24.590 ms

Loss rate: 0.03%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: Tue, 04 Jul 2017 20:33:49 +0000

End at: Tue, 04 Jul 2017 20:34:19 +0000

Local clock offset: -0.045 ms

Remote clock offset: -0.903 ms

# Below is generated by plot.py at Wed, 05 Jul 2017 04:33:21 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 581.80 Mbit/s

95th percentile per-packet one-way delay: 24.091 ms

Loss rate: 0.27%

-- Flow 1:

Average throughput: 347.54 Mbit/s

95th percentile per-packet one-way delay: 23.862 ms

Loss rate: 0.43%

-- Flow 2:

Average throughput: 165.35 Mbit/s

95th percentile per-packet one-way delay: 24.156 ms

Loss rate: 0.00%

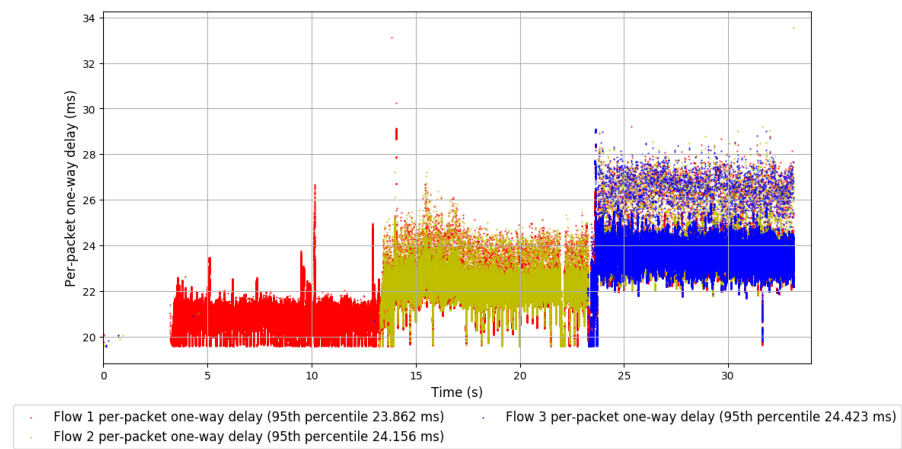
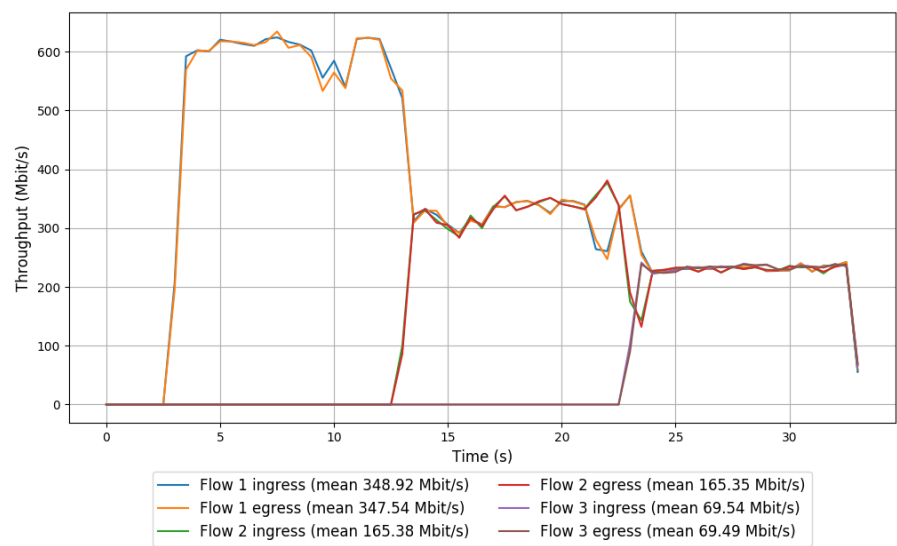
-- Flow 3:

Average throughput: 69.49 Mbit/s

95th percentile per-packet one-way delay: 24.423 ms

Loss rate: 0.11%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: Tue, 04 Jul 2017 20:54:42 +0000

End at: Tue, 04 Jul 2017 20:55:12 +0000

Local clock offset: -0.007 ms

Remote clock offset: -1.001 ms

# Below is generated by plot.py at Wed, 05 Jul 2017 04:34:48 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 658.44 Mbit/s

95th percentile per-packet one-way delay: 23.835 ms

Loss rate: 1.63%

-- Flow 1:

Average throughput: 385.76 Mbit/s

95th percentile per-packet one-way delay: 23.516 ms

Loss rate: 2.49%

-- Flow 2:

Average throughput: 194.23 Mbit/s

95th percentile per-packet one-way delay: 23.930 ms

Loss rate: 0.40%

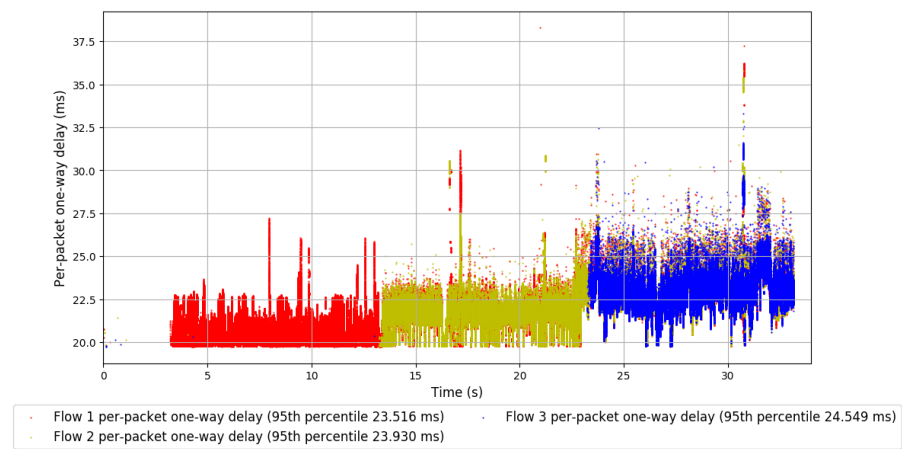
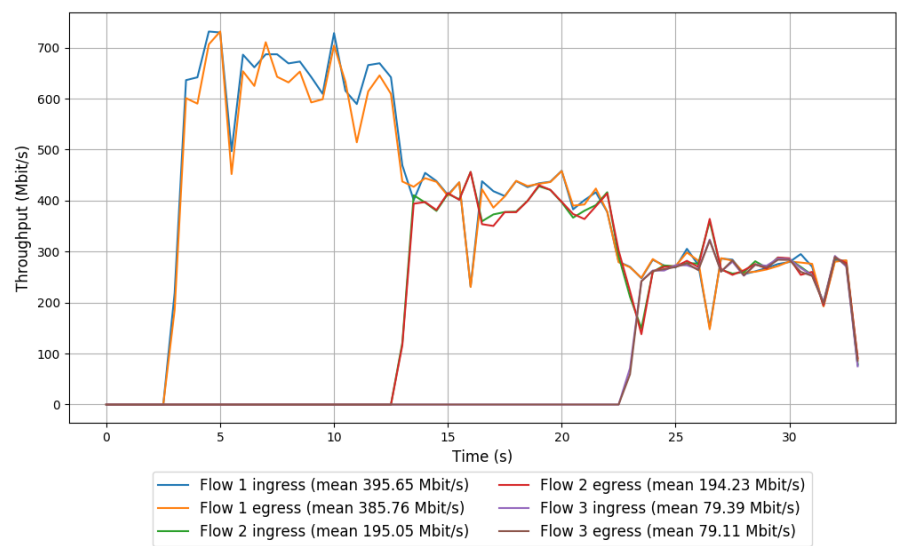
-- Flow 3:

Average throughput: 79.11 Mbit/s

95th percentile per-packet one-way delay: 24.549 ms

Loss rate: 0.35%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: Tue, 04 Jul 2017 21:15:12 +0000

End at: Tue, 04 Jul 2017 21:15:42 +0000

Local clock offset: -0.151 ms

Remote clock offset: -1.021 ms

# Below is generated by plot.py at Wed, 05 Jul 2017 04:34:57 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 647.51 Mbit/s

95th percentile per-packet one-way delay: 23.200 ms

Loss rate: 0.55%

-- Flow 1:

Average throughput: 342.72 Mbit/s

95th percentile per-packet one-way delay: 23.062 ms

Loss rate: 0.87%

-- Flow 2:

Average throughput: 215.95 Mbit/s

95th percentile per-packet one-way delay: 23.208 ms

Loss rate: 0.23%

-- Flow 3:

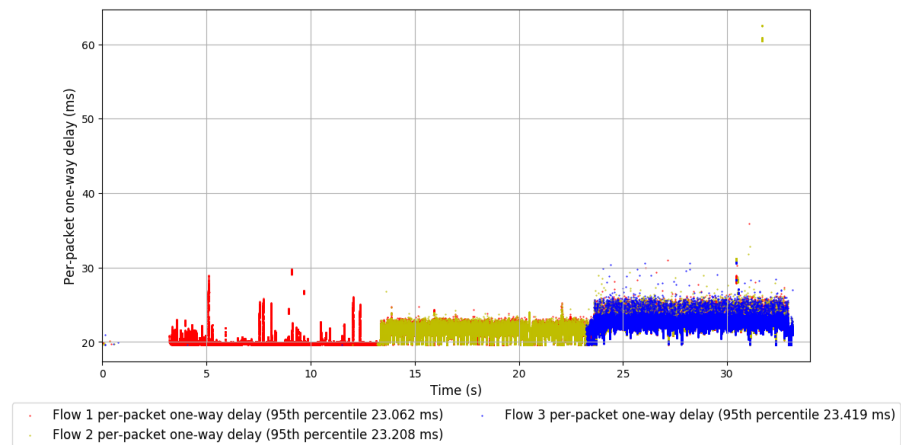
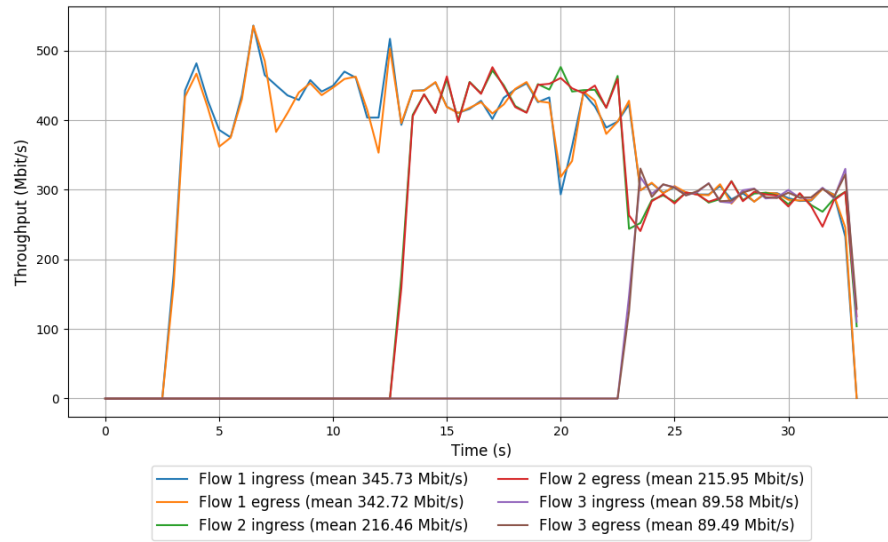
Average throughput: 89.49 Mbit/s

95th percentile per-packet one-way delay: 23.419 ms

Loss rate: 0.09%



# Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: Tue, 04 Jul 2017 21:36:03 +0000

End at: Tue, 04 Jul 2017 21:36:33 +0000

Local clock offset: -0.025 ms

Remote clock offset: -1.557 ms

# Below is generated by plot.py at Wed, 05 Jul 2017 04:36:19 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 628.69 Mbit/s

95th percentile per-packet one-way delay: 24.067 ms

Loss rate: 0.83%

-- Flow 1:

Average throughput: 339.69 Mbit/s

95th percentile per-packet one-way delay: 23.794 ms

Loss rate: 1.48%

-- Flow 2:

Average throughput: 205.79 Mbit/s

95th percentile per-packet one-way delay: 24.057 ms

Loss rate: 0.08%

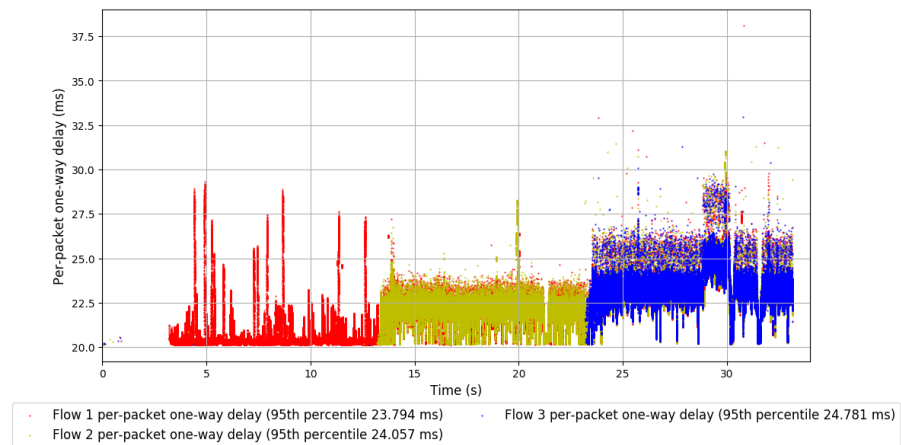
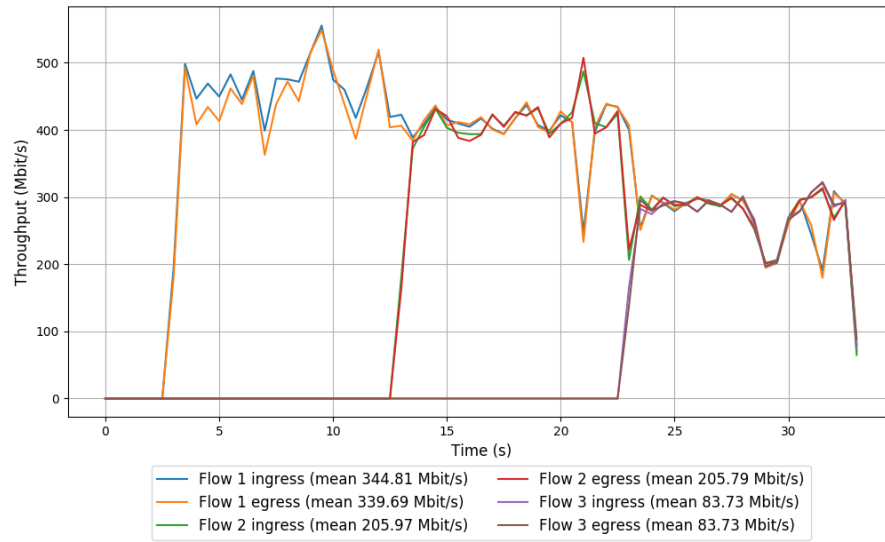
-- Flow 3:

Average throughput: 83.73 Mbit/s

95th percentile per-packet one-way delay: 24.781 ms

Loss rate: 0.00%

# Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: Tue, 04 Jul 2017 21:56:46 +0000

End at: Tue, 04 Jul 2017 21:57:16 +0000

Local clock offset: -0.073 ms

Remote clock offset: -1.793 ms

# Below is generated by plot.py at Wed, 05 Jul 2017 04:36:25 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 605.95 Mbit/s

95th percentile per-packet one-way delay: 24.380 ms

Loss rate: 1.21%

-- Flow 1:

Average throughput: 321.56 Mbit/s

95th percentile per-packet one-way delay: 24.112 ms

Loss rate: 1.93%

-- Flow 2:

Average throughput: 201.75 Mbit/s

95th percentile per-packet one-way delay: 24.347 ms

Loss rate: 0.41%

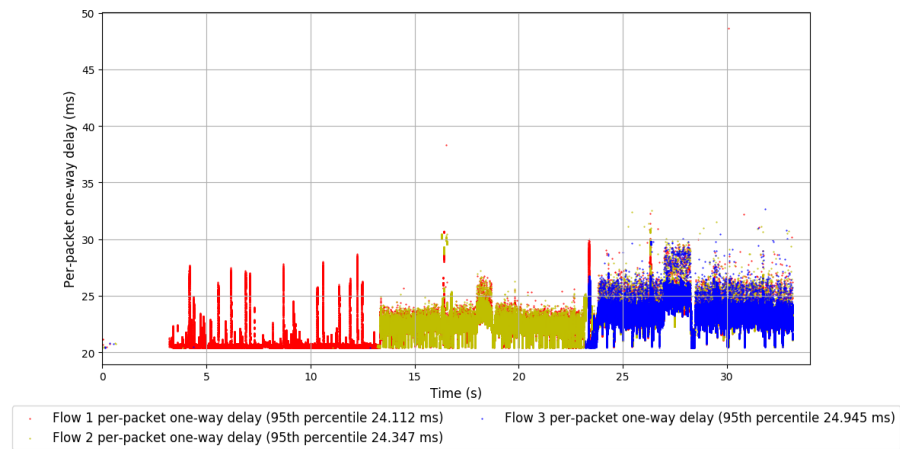
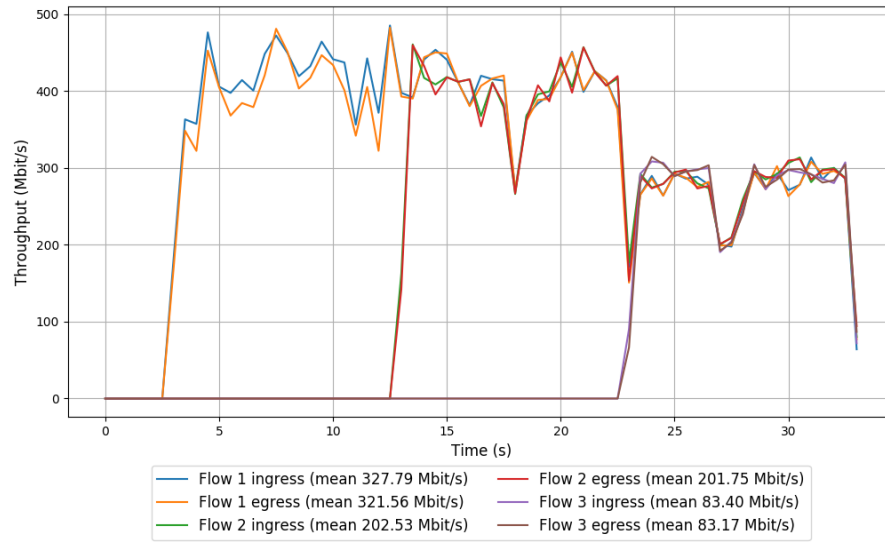
-- Flow 3:

Average throughput: 83.17 Mbit/s

95th percentile per-packet one-way delay: 24.945 ms

Loss rate: 0.30%

# Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of CalibratedKoho

Start at: Tue, 04 Jul 2017 18:54:06 +0000

End at: Tue, 04 Jul 2017 18:54:36 +0000

Local clock offset: 0.431 ms

Remote clock offset: -0.784 ms

# Below is generated by plot.py at Wed, 05 Jul 2017 04:37:22 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 464.15 Mbit/s

95th percentile per-packet one-way delay: 22.255 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 286.30 Mbit/s

95th percentile per-packet one-way delay: 21.871 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 103.50 Mbit/s

95th percentile per-packet one-way delay: 21.951 ms

Loss rate: 0.00%

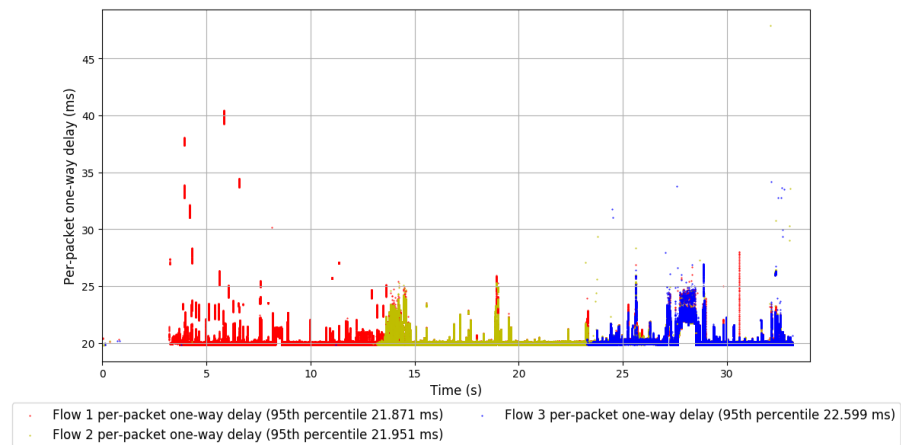
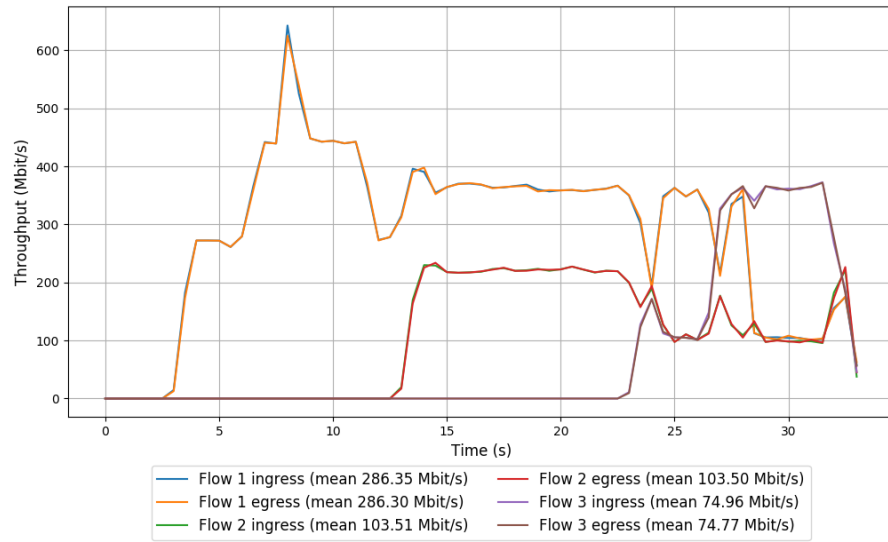
-- Flow 3:

Average throughput: 74.77 Mbit/s

95th percentile per-packet one-way delay: 22.599 ms

Loss rate: 0.25%

# Run 1: Report of CalibratedKoho — Data Link



Run 2: Statistics of CalibratedKoho

Start at: Tue, 04 Jul 2017 19:15:06 +0000

End at: Tue, 04 Jul 2017 19:15:36 +0000

Local clock offset: 0.21 ms

Remote clock offset: -1.138 ms

# Below is generated by plot.py at Wed, 05 Jul 2017 04:37:32 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 461.58 Mbit/s

95th percentile per-packet one-way delay: 21.973 ms

Loss rate: 0.15%

-- Flow 1:

Average throughput: 268.43 Mbit/s

95th percentile per-packet one-way delay: 21.889 ms

Loss rate: 0.21%

-- Flow 2:

Average throughput: 137.88 Mbit/s

95th percentile per-packet one-way delay: 22.342 ms

Loss rate: 0.03%

-- Flow 3:

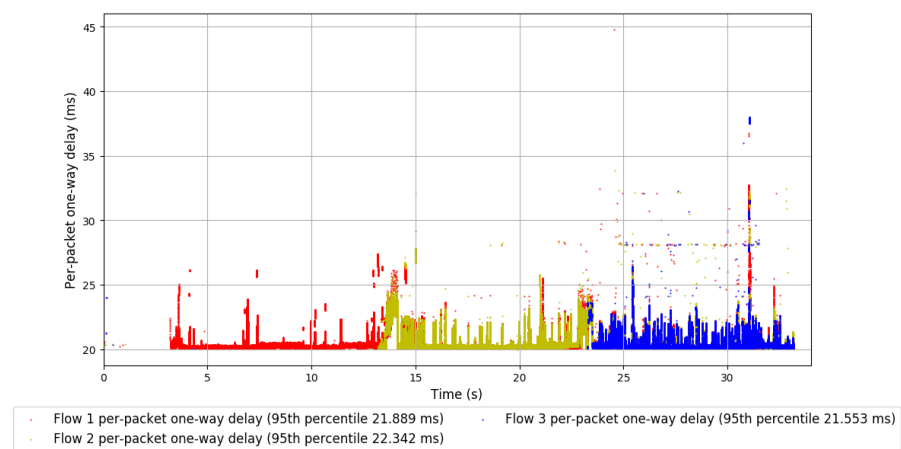
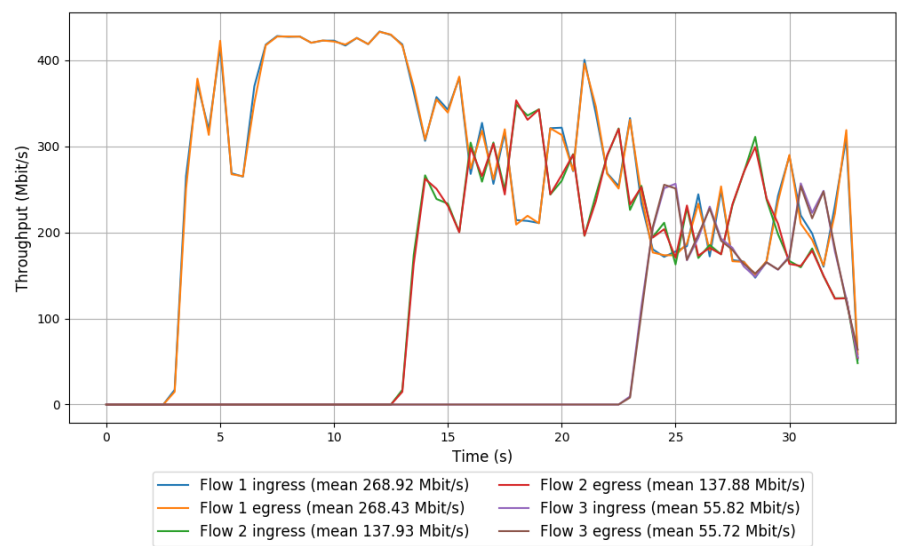
Average throughput: 55.72 Mbit/s

95th percentile per-packet one-way delay: 21.553 ms

Loss rate: 0.18%



Run 2: Report of CalibratedKoho — Data Link



Run 3: Statistics of CalibratedKoho

Start at: Tue, 04 Jul 2017 19:35:48 +0000

End at: Tue, 04 Jul 2017 19:36:18 +0000

Local clock offset: 0.154 ms

Remote clock offset: -1.359 ms

# Below is generated by plot.py at Wed, 05 Jul 2017 04:38:29 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 479.27 Mbit/s

95th percentile per-packet one-way delay: 24.484 ms

Loss rate: 0.21%

-- Flow 1:

Average throughput: 261.74 Mbit/s

95th percentile per-packet one-way delay: 24.244 ms

Loss rate: 0.19%

-- Flow 2:

Average throughput: 157.20 Mbit/s

95th percentile per-packet one-way delay: 24.494 ms

Loss rate: 0.27%

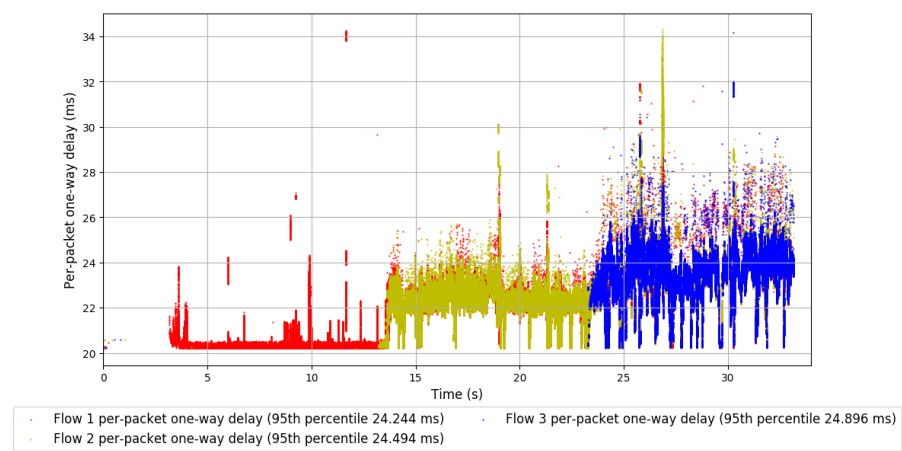
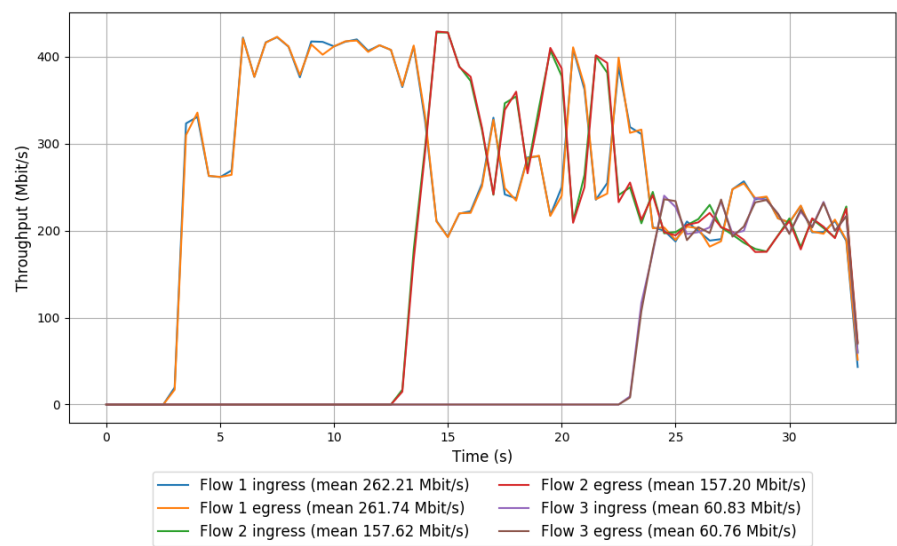
-- Flow 3:

Average throughput: 60.76 Mbit/s

95th percentile per-packet one-way delay: 24.896 ms

Loss rate: 0.11%

Run 3: Report of CalibratedKoho — Data Link



Run 4: Statistics of CalibratedKoho

Start at: Tue, 04 Jul 2017 19:56:31 +0000

End at: Tue, 04 Jul 2017 19:57:01 +0000

Local clock offset: 0.107 ms

Remote clock offset: -1.11 ms

# Below is generated by plot.py at Wed, 05 Jul 2017 04:38:41 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 463.01 Mbit/s

95th percentile per-packet one-way delay: 23.818 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 251.68 Mbit/s

95th percentile per-packet one-way delay: 23.541 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 148.49 Mbit/s

95th percentile per-packet one-way delay: 23.877 ms

Loss rate: 0.22%

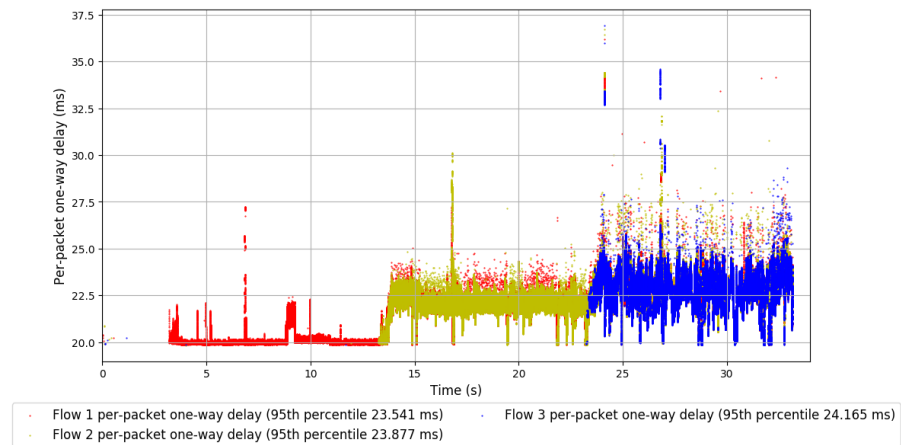
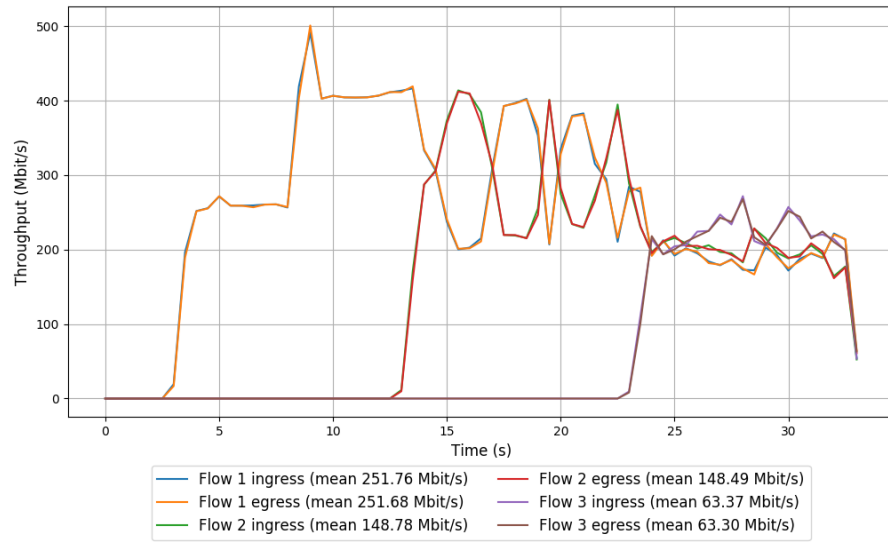
-- Flow 3:

Average throughput: 63.30 Mbit/s

95th percentile per-packet one-way delay: 24.165 ms

Loss rate: 0.10%

# Run 4: Report of CalibratedKoho — Data Link



Run 5: Statistics of CalibratedKoho

Start at: Tue, 04 Jul 2017 20:17:29 +0000

End at: Tue, 04 Jul 2017 20:17:59 +0000

Local clock offset: 0.054 ms

Remote clock offset: -1.06 ms

# Below is generated by plot.py at Wed, 05 Jul 2017 04:39:35 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 472.79 Mbit/s

95th percentile per-packet one-way delay: 23.373 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 262.16 Mbit/s

95th percentile per-packet one-way delay: 23.063 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 154.86 Mbit/s

95th percentile per-packet one-way delay: 23.393 ms

Loss rate: 0.05%

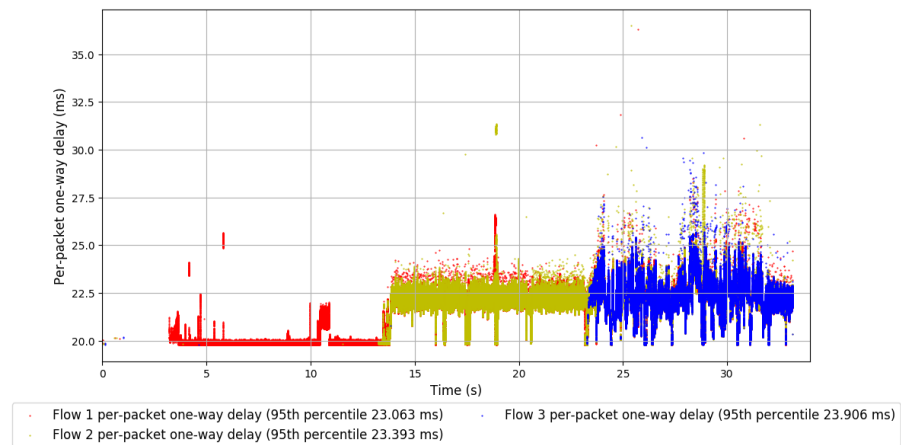
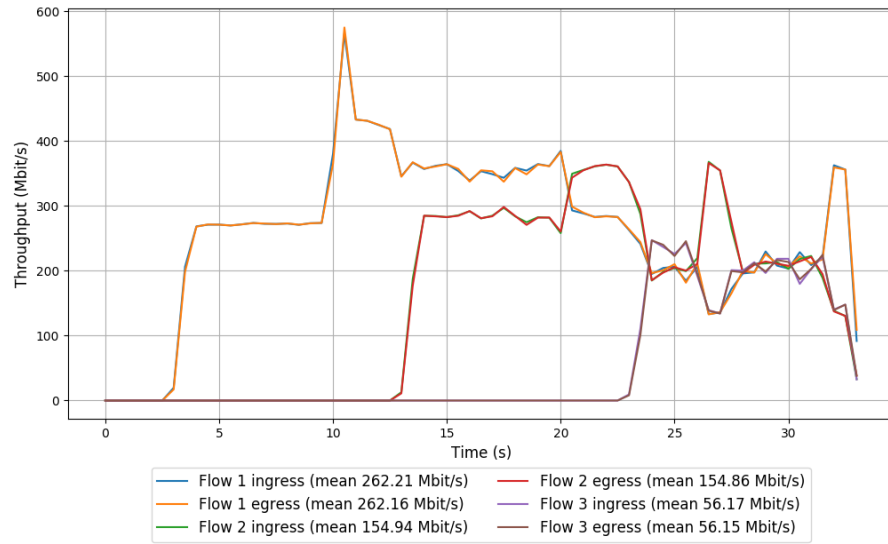
-- Flow 3:

Average throughput: 56.15 Mbit/s

95th percentile per-packet one-way delay: 23.906 ms

Loss rate: 0.03%

## Run 5: Report of CalibratedKoho — Data Link



Run 6: Statistics of CalibratedKoho

Start at: Tue, 04 Jul 2017 20:38:21 +0000

End at: Tue, 04 Jul 2017 20:38:51 +0000

Local clock offset: 0.049 ms

Remote clock offset: -0.8 ms

# Below is generated by plot.py at Wed, 05 Jul 2017 04:39:48 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 472.38 Mbit/s

95th percentile per-packet one-way delay: 22.951 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 252.15 Mbit/s

95th percentile per-packet one-way delay: 22.660 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 156.78 Mbit/s

95th percentile per-packet one-way delay: 22.971 ms

Loss rate: 0.07%

-- Flow 3:

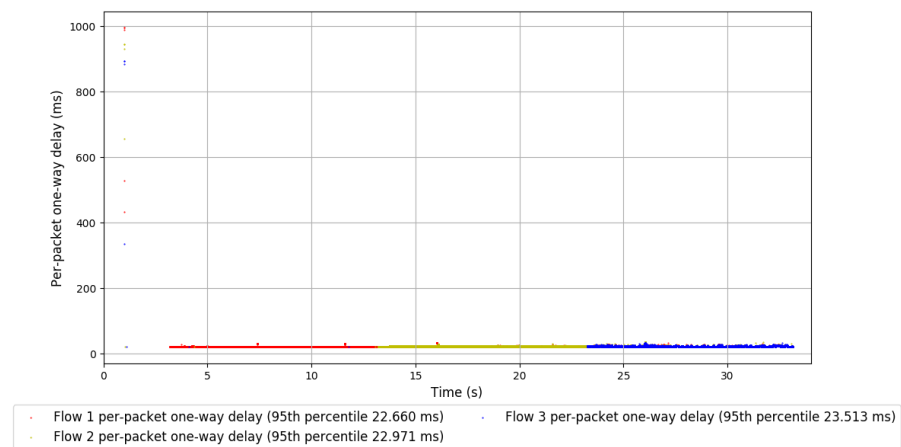
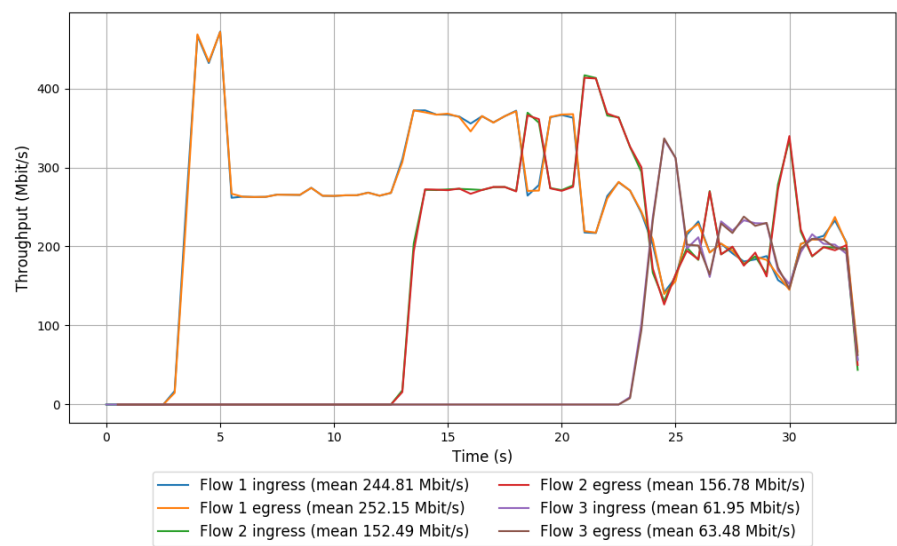
Average throughput: 63.48 Mbit/s

95th percentile per-packet one-way delay: 23.513 ms

Loss rate: 0.23%



Run 6: Report of CalibratedKoho — Data Link



Run 7: Statistics of CalibratedKoho

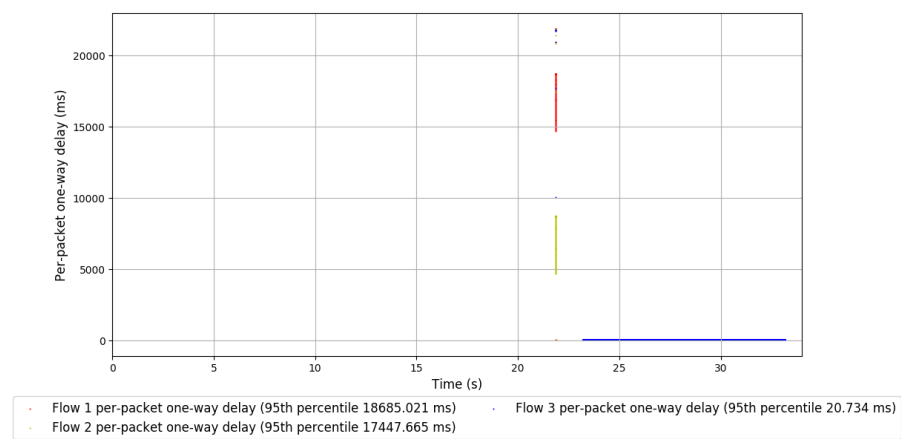
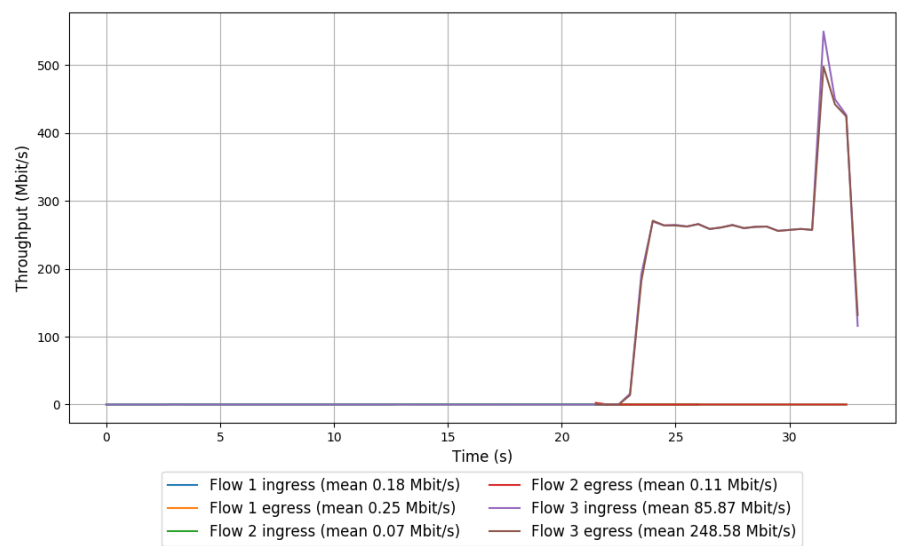
Start at: Tue, 04 Jul 2017 20:59:24 +0000

End at: Tue, 04 Jul 2017 20:59:54 +0000

Local clock offset: -0.041 ms

Remote clock offset: -1.018 ms

Run 7: Report of CalibratedKoho — Data Link



Run 8: Statistics of CalibratedKoho

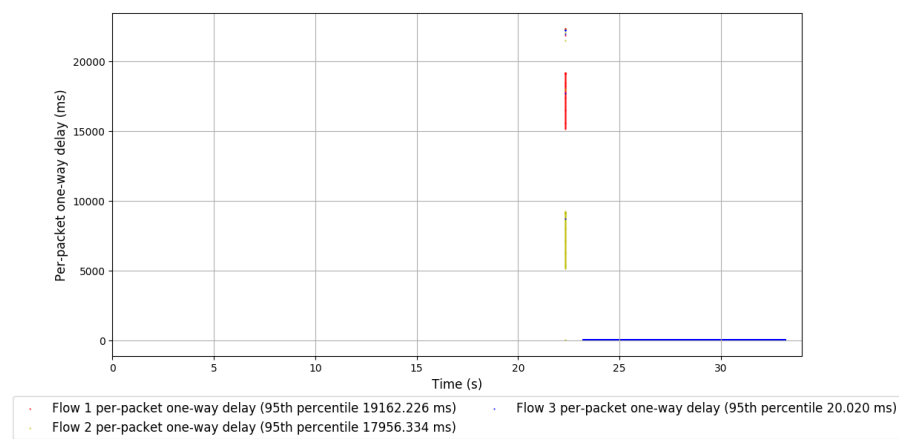
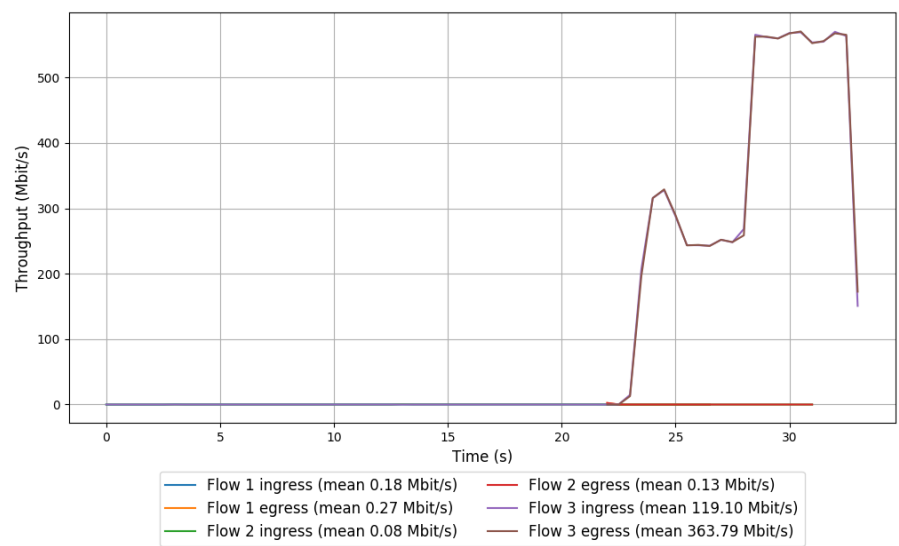
Start at: Tue, 04 Jul 2017 21:19:53 +0000

End at: Tue, 04 Jul 2017 21:20:23 +0000

Local clock offset: -0.064 ms

Remote clock offset: -1.031 ms

Run 8: Report of CalibratedKoho — Data Link



Run 9: Statistics of CalibratedKoho

Start at: Tue, 04 Jul 2017 21:40:43 +0000

End at: Tue, 04 Jul 2017 21:41:13 +0000

Local clock offset: -0.03 ms

Remote clock offset: -1.544 ms

# Below is generated by plot.py at Wed, 05 Jul 2017 04:40:27 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 332.41 Mbit/s

95th percentile per-packet one-way delay: 21.176 ms

Loss rate: 0.25%

-- Flow 1:

Average throughput: 0.02 Mbit/s

95th percentile per-packet one-way delay: 4627.758 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 261.29 Mbit/s

95th percentile per-packet one-way delay: 21.108 ms

Loss rate: 0.29%

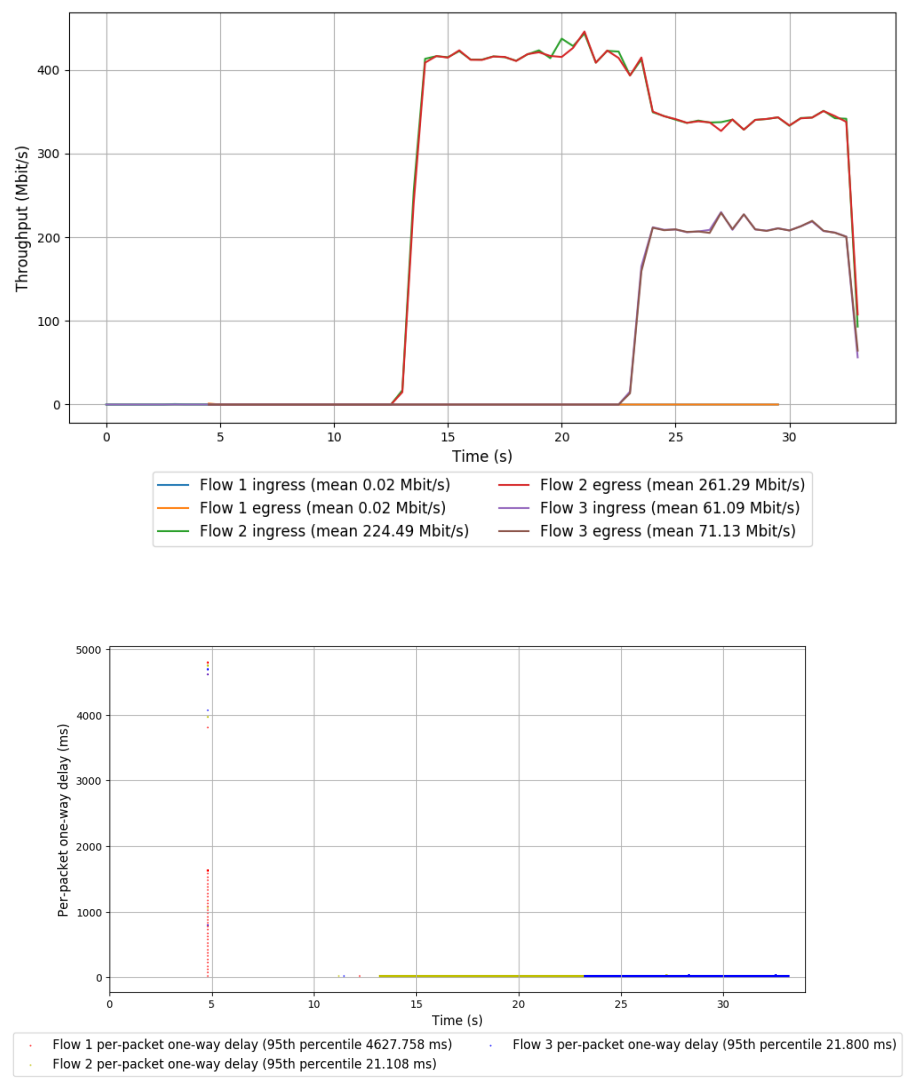
-- Flow 3:

Average throughput: 71.13 Mbit/s

95th percentile per-packet one-way delay: 21.800 ms

Loss rate: 0.09%

Run 9: Report of CalibratedKoho — Data Link



Run 10: Statistics of CalibratedKoho

Start at: Tue, 04 Jul 2017 22:01:25 +0000

End at: Tue, 04 Jul 2017 22:01:55 +0000

Local clock offset: 0.008 ms

Remote clock offset: -1.647 ms

# Below is generated by plot.py at Wed, 05 Jul 2017 04:41:11 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 448.13 Mbit/s

95th percentile per-packet one-way delay: 21.699 ms

Loss rate: 0.16%

-- Flow 1:

Average throughput: 277.13 Mbit/s

95th percentile per-packet one-way delay: 21.477 ms

Loss rate: 0.21%

-- Flow 2:

Average throughput: 123.08 Mbit/s

95th percentile per-packet one-way delay: 21.942 ms

Loss rate: 0.09%

-- Flow 3:

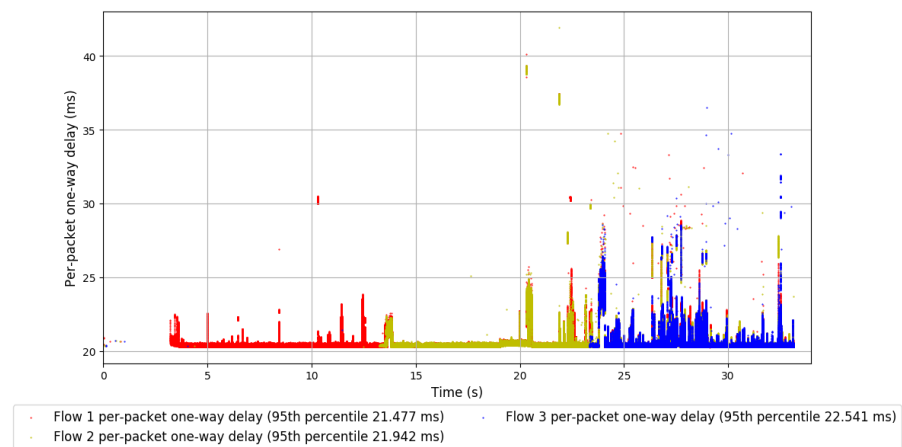
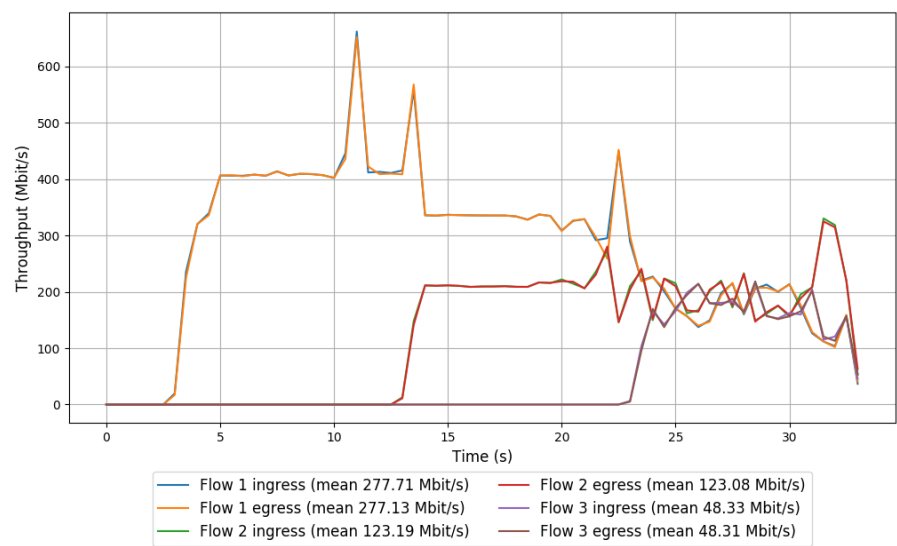
Average throughput: 48.31 Mbit/s

95th percentile per-packet one-way delay: 22.541 ms

Loss rate: 0.08%



Run 10: Report of CalibratedKoho — Data Link



Run 1: Statistics of Copa

Start at: Tue, 04 Jul 2017 18:57:01 +0000

End at: Tue, 04 Jul 2017 18:57:31 +0000

Local clock offset: 0.413 ms

Remote clock offset: -0.818 ms

# Below is generated by plot.py at Wed, 05 Jul 2017 04:41:11 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 94.53 Mbit/s

95th percentile per-packet one-way delay: 19.970 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 73.86 Mbit/s

95th percentile per-packet one-way delay: 19.969 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 20.188 ms

Loss rate: 0.00%

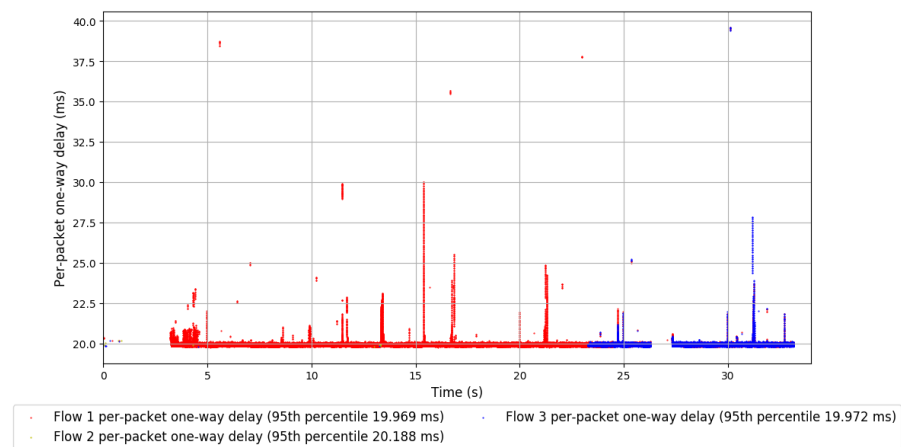
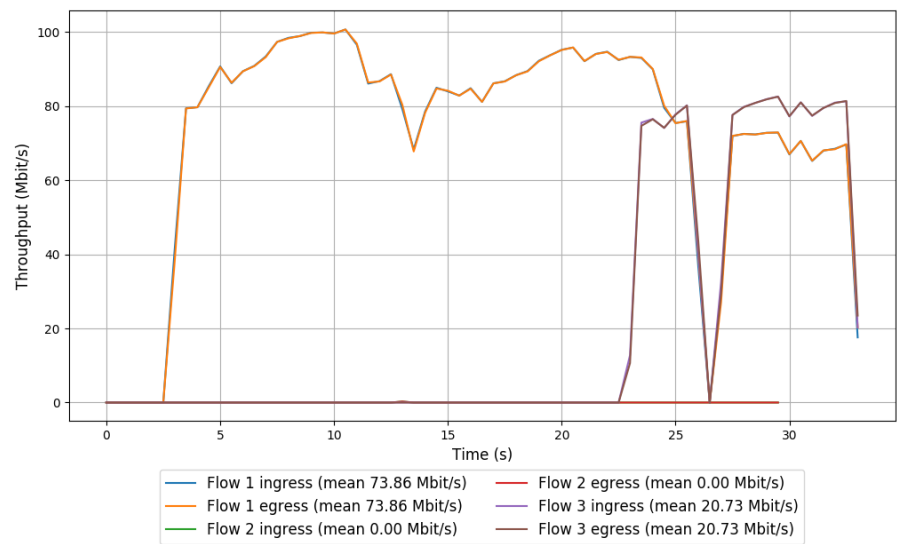
-- Flow 3:

Average throughput: 20.73 Mbit/s

95th percentile per-packet one-way delay: 19.972 ms

Loss rate: 0.00%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: Tue, 04 Jul 2017 19:18:02 +0000

End at: Tue, 04 Jul 2017 19:18:32 +0000

Local clock offset: 0.258 ms

Remote clock offset: -1.185 ms

# Below is generated by plot.py at Wed, 05 Jul 2017 04:41:21 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.28 Mbit/s

95th percentile per-packet one-way delay: 20.186 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 72.62 Mbit/s

95th percentile per-packet one-way delay: 20.189 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 20.558 ms

Loss rate: 0.00%

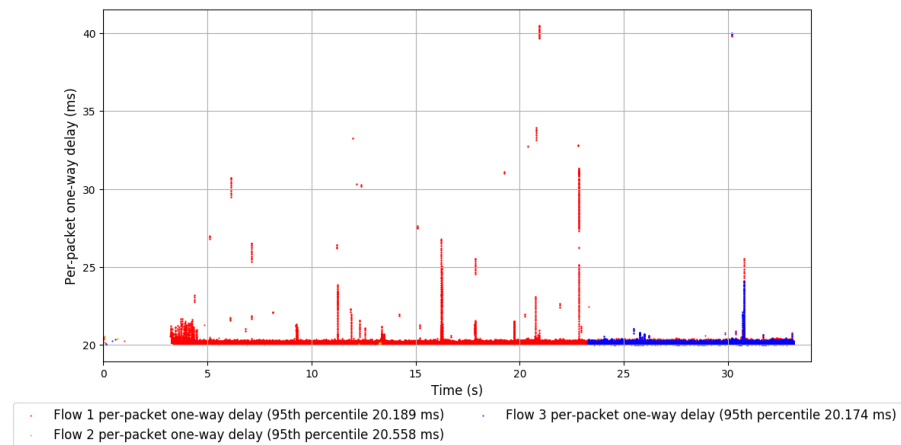
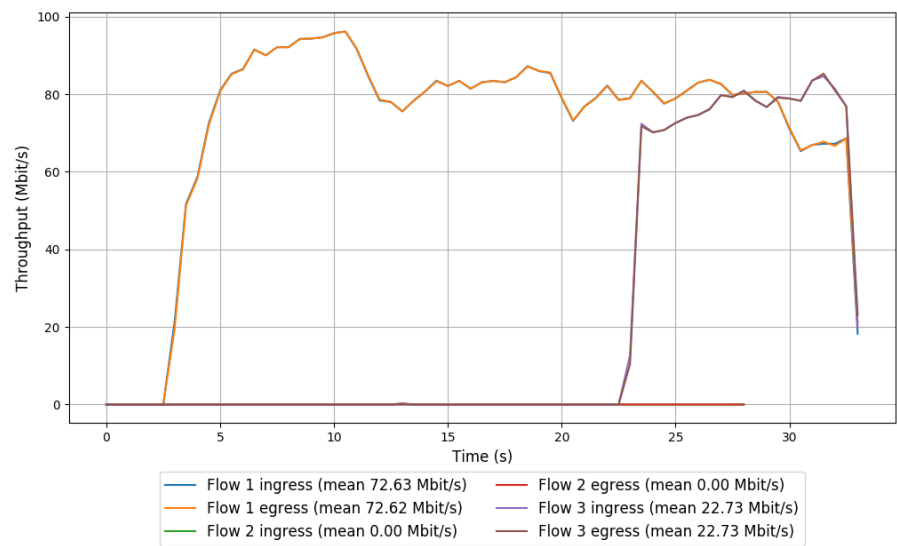
-- Flow 3:

Average throughput: 22.73 Mbit/s

95th percentile per-packet one-way delay: 20.174 ms

Loss rate: 0.00%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: Tue, 04 Jul 2017 19:38:44 +0000

End at: Tue, 04 Jul 2017 19:39:14 +0000

Local clock offset: 0.138 ms

Remote clock offset: -1.463 ms

# Below is generated by plot.py at Wed, 05 Jul 2017 04:41:47 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 116.51 Mbit/s

95th percentile per-packet one-way delay: 20.341 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 65.46 Mbit/s

95th percentile per-packet one-way delay: 20.351 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 36.62 Mbit/s

95th percentile per-packet one-way delay: 20.328 ms

Loss rate: 0.00%

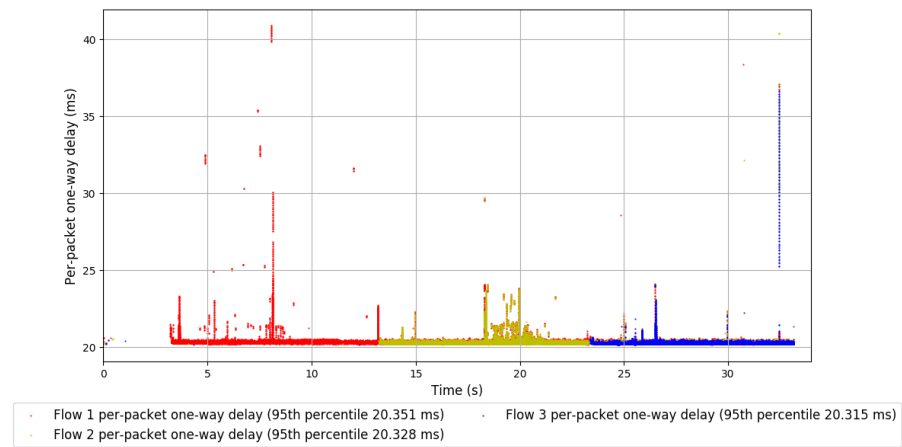
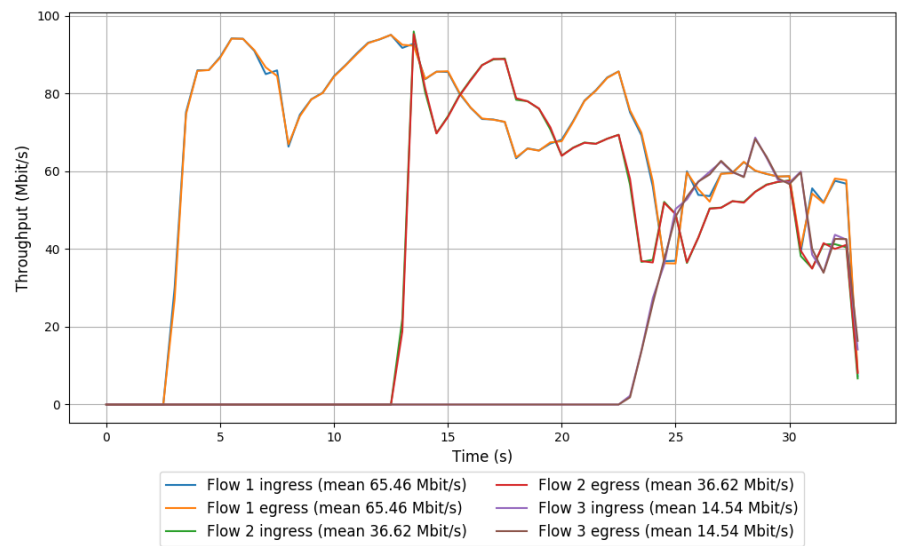
-- Flow 3:

Average throughput: 14.54 Mbit/s

95th percentile per-packet one-way delay: 20.315 ms

Loss rate: 0.00%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: Tue, 04 Jul 2017 19:59:27 +0000

End at: Tue, 04 Jul 2017 19:59:57 +0000

Local clock offset: 0.103 ms

Remote clock offset: -1.104 ms

# Below is generated by plot.py at Wed, 05 Jul 2017 04:41:52 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 117.87 Mbit/s

95th percentile per-packet one-way delay: 19.881 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 64.98 Mbit/s

95th percentile per-packet one-way delay: 19.879 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 37.90 Mbit/s

95th percentile per-packet one-way delay: 19.874 ms

Loss rate: 0.00%

-- Flow 3:

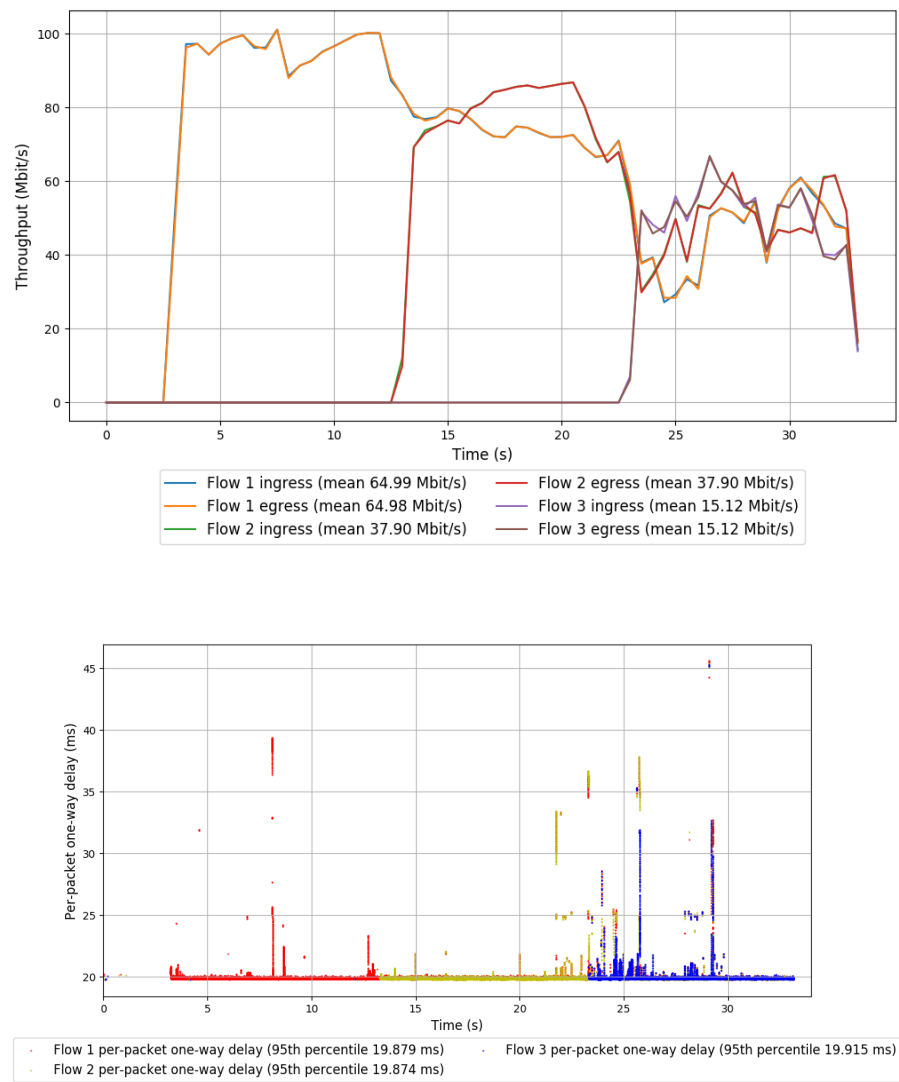
Average throughput: 15.12 Mbit/s

95th percentile per-packet one-way delay: 19.915 ms

Loss rate: 0.00%



Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: Tue, 04 Jul 2017 20:20:25 +0000

End at: Tue, 04 Jul 2017 20:20:55 +0000

Local clock offset: -0.016 ms

Remote clock offset: -0.949 ms

# Below is generated by plot.py at Wed, 05 Jul 2017 04:42:23 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 116.78 Mbit/s

95th percentile per-packet one-way delay: 19.849 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 65.97 Mbit/s

95th percentile per-packet one-way delay: 19.858 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 38.24 Mbit/s

95th percentile per-packet one-way delay: 19.832 ms

Loss rate: 0.01%

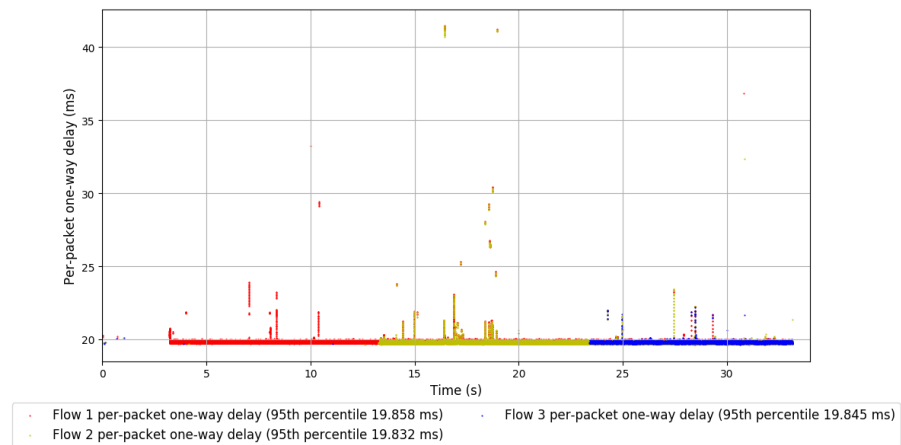
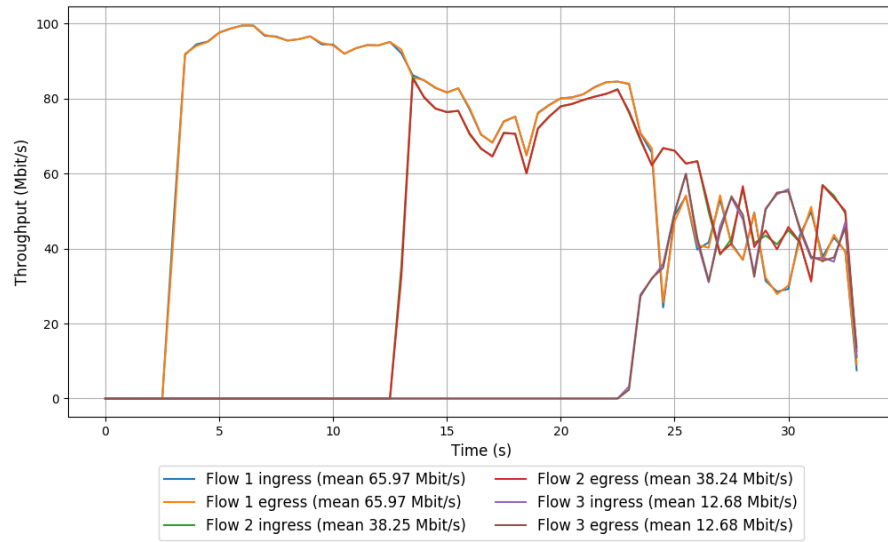
-- Flow 3:

Average throughput: 12.68 Mbit/s

95th percentile per-packet one-way delay: 19.845 ms

Loss rate: 0.00%

## Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: Tue, 04 Jul 2017 20:41:17 +0000

End at: Tue, 04 Jul 2017 20:41:47 +0000

Local clock offset: 0.077 ms

Remote clock offset: -0.771 ms

# Below is generated by plot.py at Wed, 05 Jul 2017 04:42:23 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 106.47 Mbit/s

95th percentile per-packet one-way delay: 19.669 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 60.99 Mbit/s

95th percentile per-packet one-way delay: 19.639 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 34.41 Mbit/s

95th percentile per-packet one-way delay: 19.693 ms

Loss rate: 0.00%

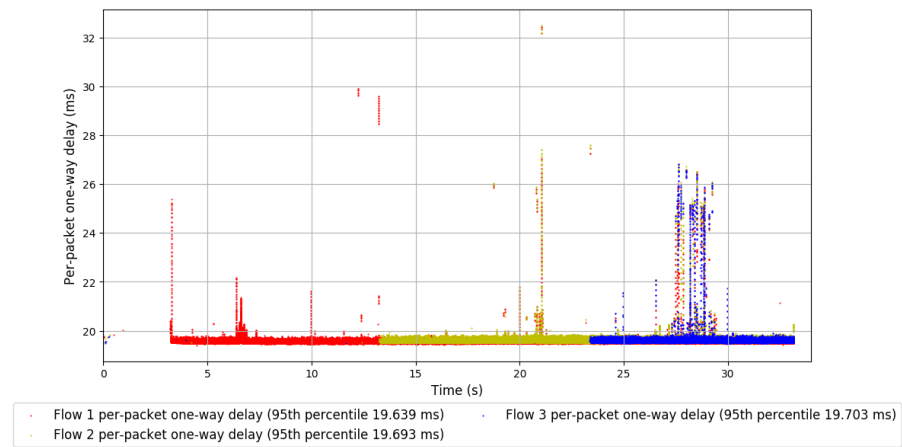
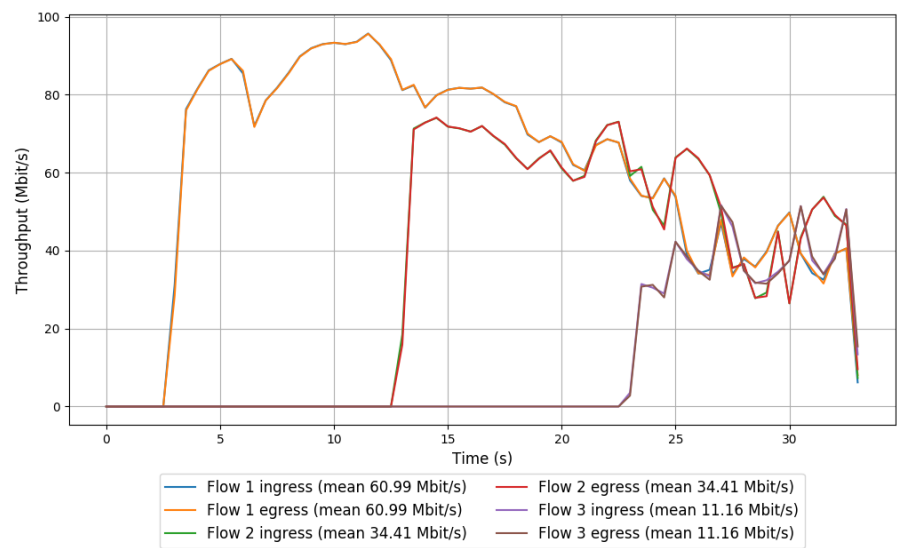
-- Flow 3:

Average throughput: 11.16 Mbit/s

95th percentile per-packet one-way delay: 19.703 ms

Loss rate: 0.00%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: Tue, 04 Jul 2017 21:01:52 +0000

End at: Tue, 04 Jul 2017 21:02:22 +0000

Local clock offset: -0.086 ms

Remote clock offset: -0.932 ms

# Below is generated by plot.py at Wed, 05 Jul 2017 04:42:50 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 109.59 Mbit/s

95th percentile per-packet one-way delay: 19.736 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 59.17 Mbit/s

95th percentile per-packet one-way delay: 19.735 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 36.97 Mbit/s

95th percentile per-packet one-way delay: 19.736 ms

Loss rate: 0.00%

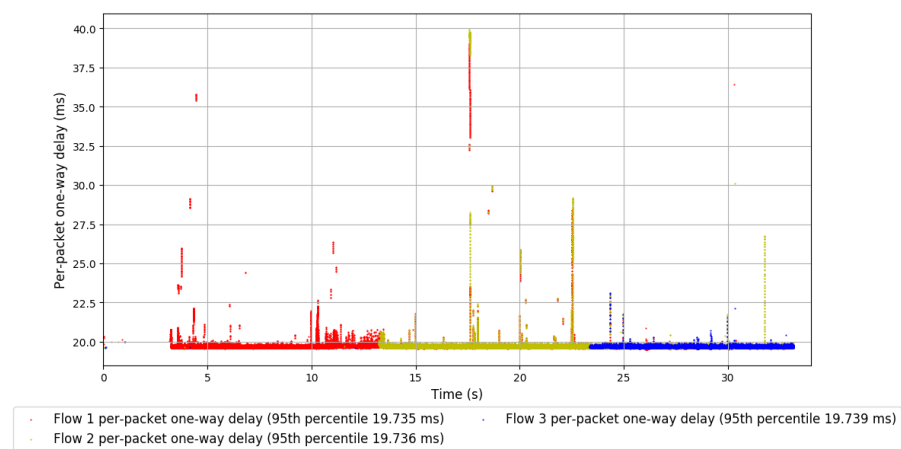
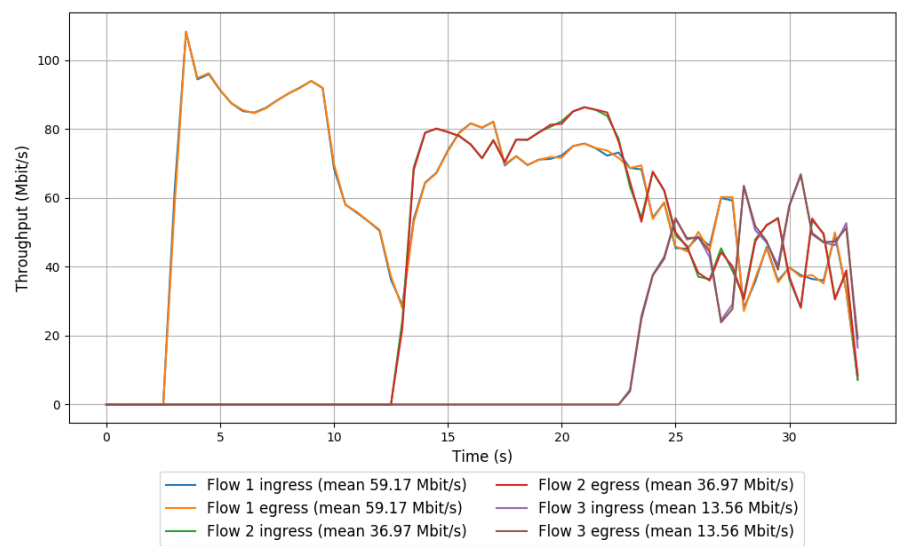
-- Flow 3:

Average throughput: 13.56 Mbit/s

95th percentile per-packet one-way delay: 19.739 ms

Loss rate: 0.00%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: Tue, 04 Jul 2017 21:22:23 +0000

End at: Tue, 04 Jul 2017 21:22:53 +0000

Local clock offset: -0.068 ms

Remote clock offset: -1.146 ms

# Below is generated by plot.py at Wed, 05 Jul 2017 04:42:53 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 106.17 Mbit/s

95th percentile per-packet one-way delay: 19.920 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 58.10 Mbit/s

95th percentile per-packet one-way delay: 19.926 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 35.44 Mbit/s

95th percentile per-packet one-way delay: 19.905 ms

Loss rate: 0.01%

-- Flow 3:

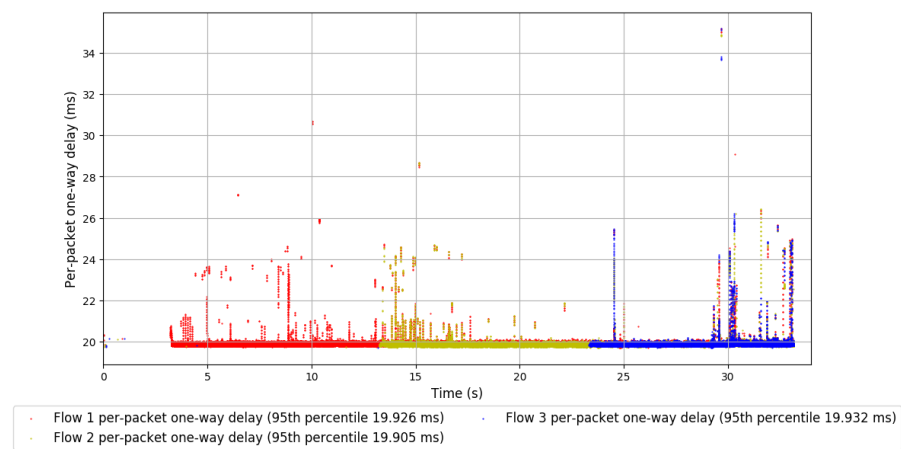
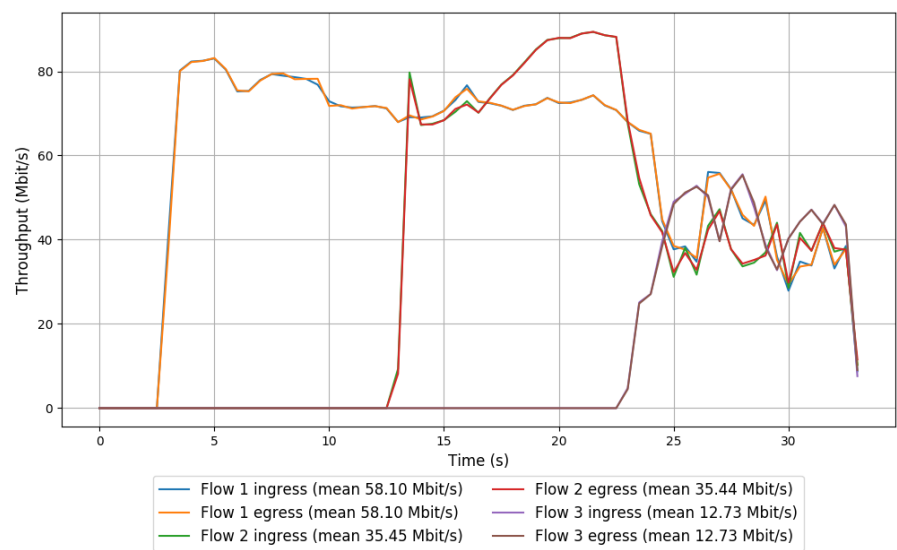
Average throughput: 12.73 Mbit/s

95th percentile per-packet one-way delay: 19.932 ms

Loss rate: 0.00%



Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: Tue, 04 Jul 2017 21:43:26 +0000

End at: Tue, 04 Jul 2017 21:43:56 +0000

Local clock offset: -0.07 ms

Remote clock offset: -1.639 ms

# Below is generated by plot.py at Wed, 05 Jul 2017 04:43:20 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 116.45 Mbit/s

95th percentile per-packet one-way delay: 20.379 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 64.27 Mbit/s

95th percentile per-packet one-way delay: 20.381 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 36.93 Mbit/s

95th percentile per-packet one-way delay: 20.376 ms

Loss rate: 0.00%

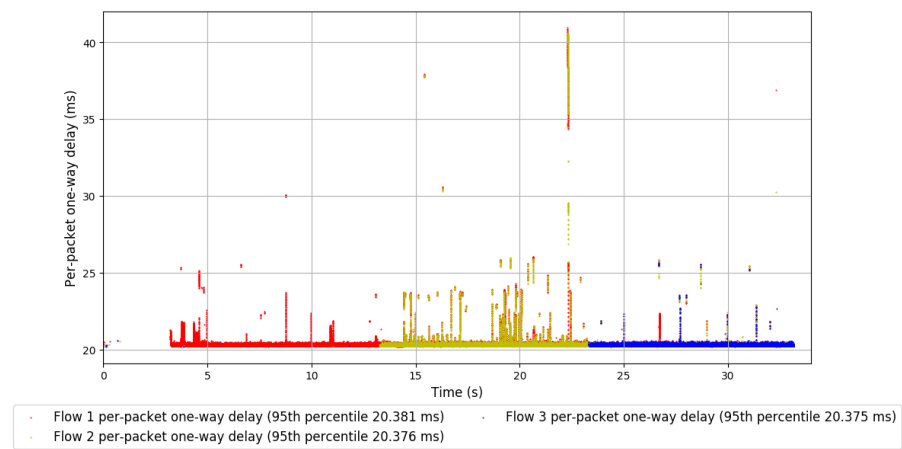
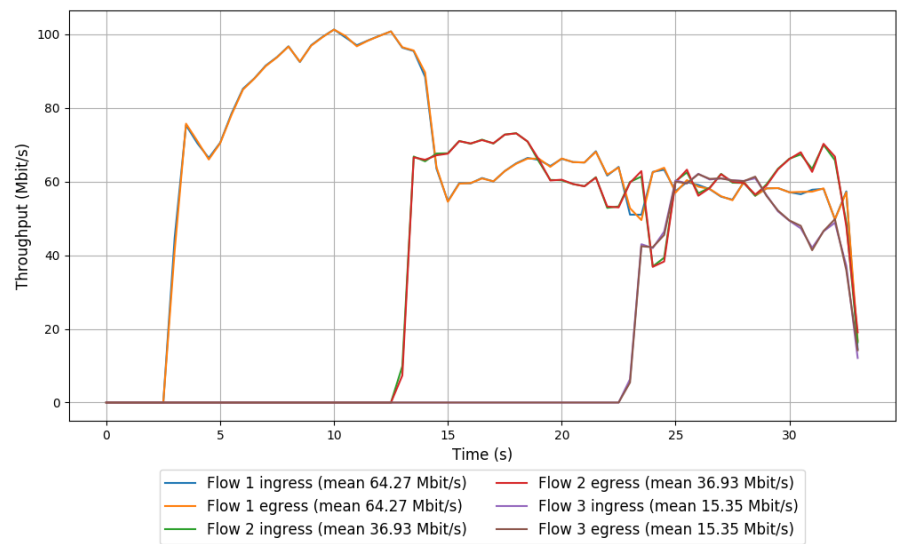
-- Flow 3:

Average throughput: 15.35 Mbit/s

95th percentile per-packet one-way delay: 20.375 ms

Loss rate: 0.00%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: Tue, 04 Jul 2017 22:04:19 +0000

End at: Tue, 04 Jul 2017 22:04:49 +0000

Local clock offset: -0.011 ms

Remote clock offset: -1.576 ms

# Below is generated by plot.py at Wed, 05 Jul 2017 04:43:25 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 113.96 Mbit/s

95th percentile per-packet one-way delay: 20.363 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 70.65 Mbit/s

95th percentile per-packet one-way delay: 20.357 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 43.38 Mbit/s

95th percentile per-packet one-way delay: 20.372 ms

Loss rate: 0.00%

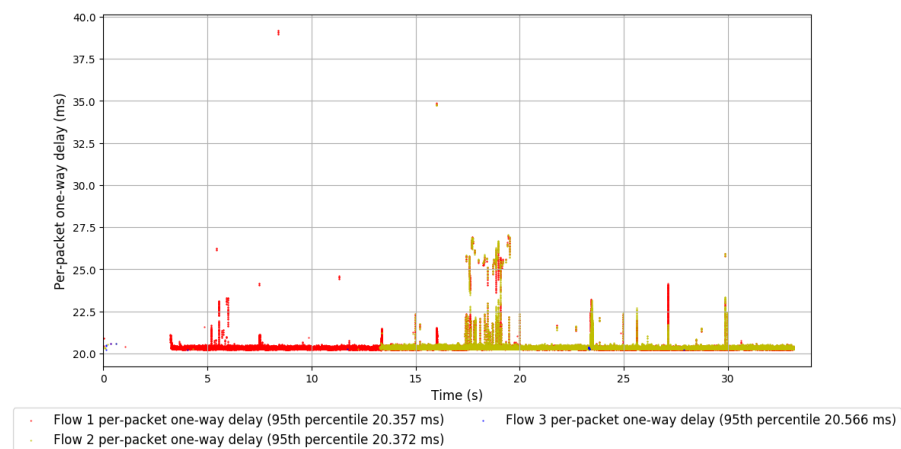
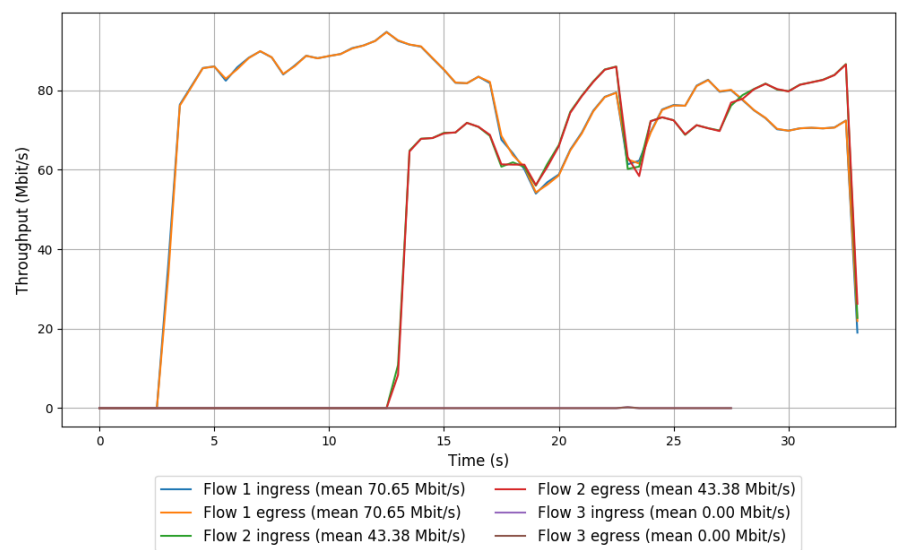
-- Flow 3:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 20.566 ms

Loss rate: 0.00%

Run 10: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: Tue, 04 Jul 2017 18:47:51 +0000

End at: Tue, 04 Jul 2017 18:48:21 +0000

Local clock offset: 0.434 ms

Remote clock offset: -0.846 ms

# Below is generated by plot.py at Wed, 05 Jul 2017 04:44:18 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 409.47 Mbit/s

95th percentile per-packet one-way delay: 23.554 ms

Loss rate: 0.14%

-- Flow 1:

Average throughput: 176.20 Mbit/s

95th percentile per-packet one-way delay: 23.483 ms

Loss rate: 0.24%

-- Flow 2:

Average throughput: 134.82 Mbit/s

95th percentile per-packet one-way delay: 23.523 ms

Loss rate: 0.08%

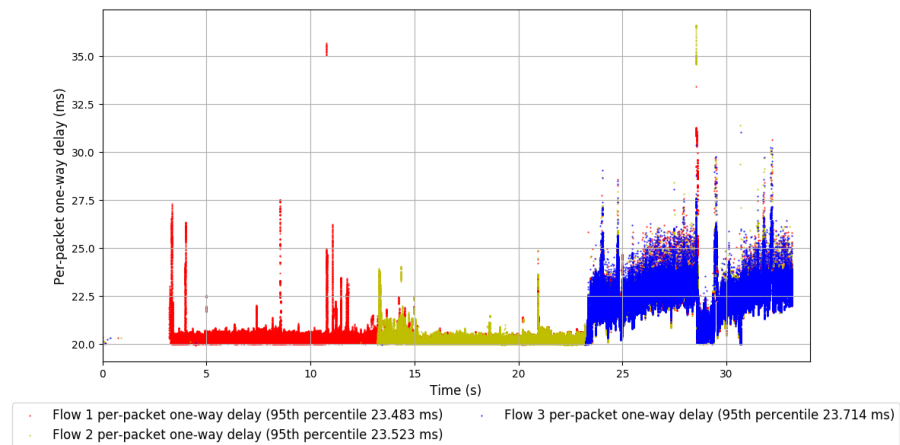
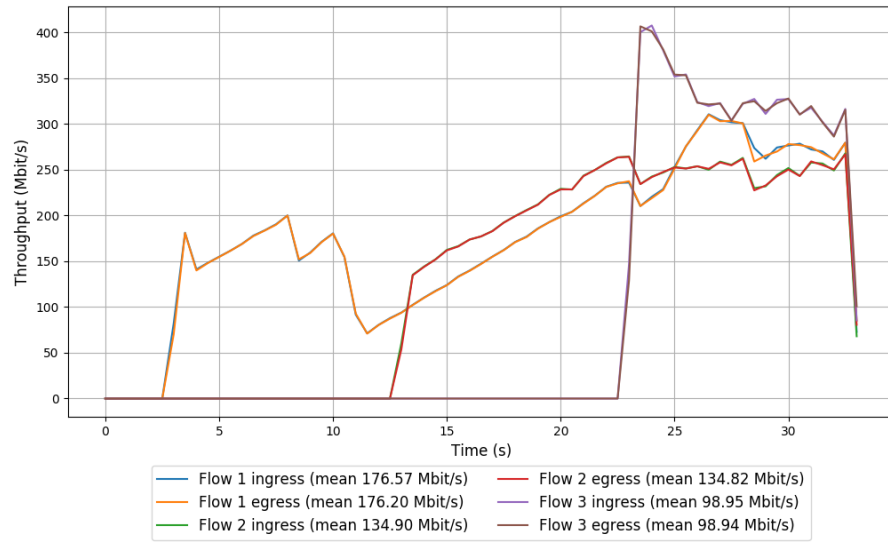
-- Flow 3:

Average throughput: 98.94 Mbit/s

95th percentile per-packet one-way delay: 23.714 ms

Loss rate: 0.04%

# Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: Tue, 04 Jul 2017 19:08:58 +0000

End at: Tue, 04 Jul 2017 19:09:28 +0000

Local clock offset: 0.244 ms

Remote clock offset: -0.924 ms

# Below is generated by plot.py at Wed, 05 Jul 2017 04:44:18 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 260.22 Mbit/s

95th percentile per-packet one-way delay: 20.783 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 121.15 Mbit/s

95th percentile per-packet one-way delay: 20.730 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 85.54 Mbit/s

95th percentile per-packet one-way delay: 20.655 ms

Loss rate: 0.05%

-- Flow 3:

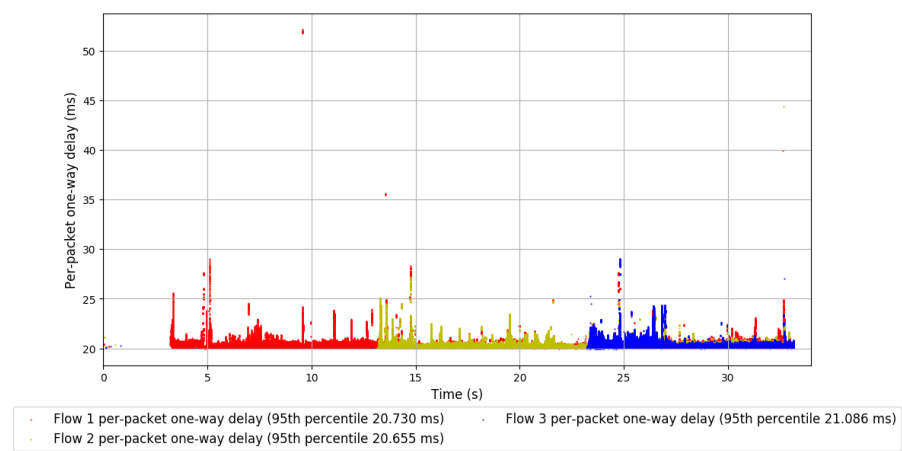
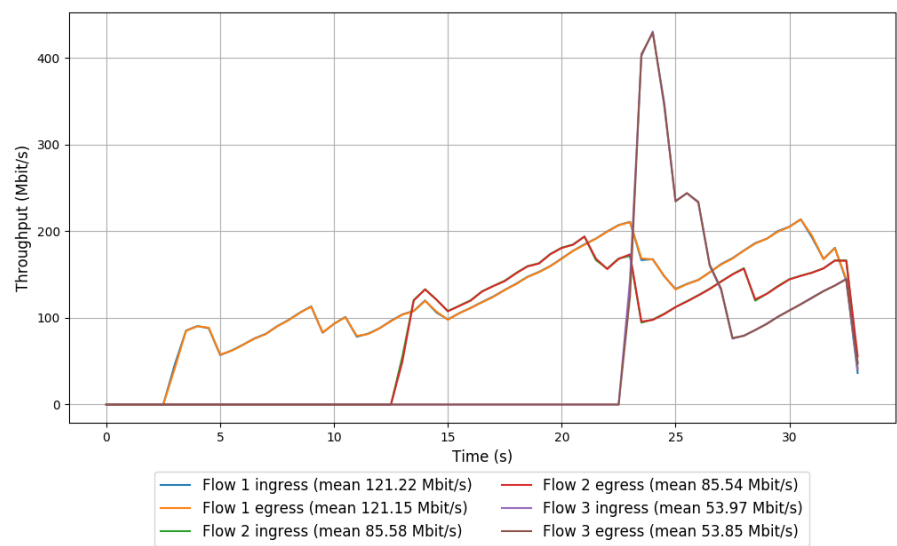
Average throughput: 53.85 Mbit/s

95th percentile per-packet one-way delay: 21.086 ms

Loss rate: 0.21%



Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: Tue, 04 Jul 2017 19:29:48 +0000

End at: Tue, 04 Jul 2017 19:30:18 +0000

Local clock offset: 0.108 ms

Remote clock offset: -1.293 ms

# Below is generated by plot.py at Wed, 05 Jul 2017 04:44:31 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 214.07 Mbit/s

95th percentile per-packet one-way delay: 20.956 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 97.04 Mbit/s

95th percentile per-packet one-way delay: 20.860 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 78.89 Mbit/s

95th percentile per-packet one-way delay: 21.140 ms

Loss rate: 0.05%

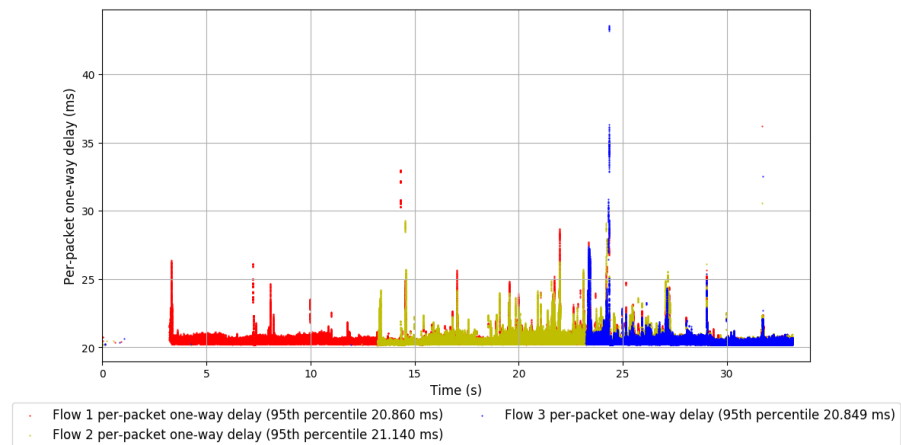
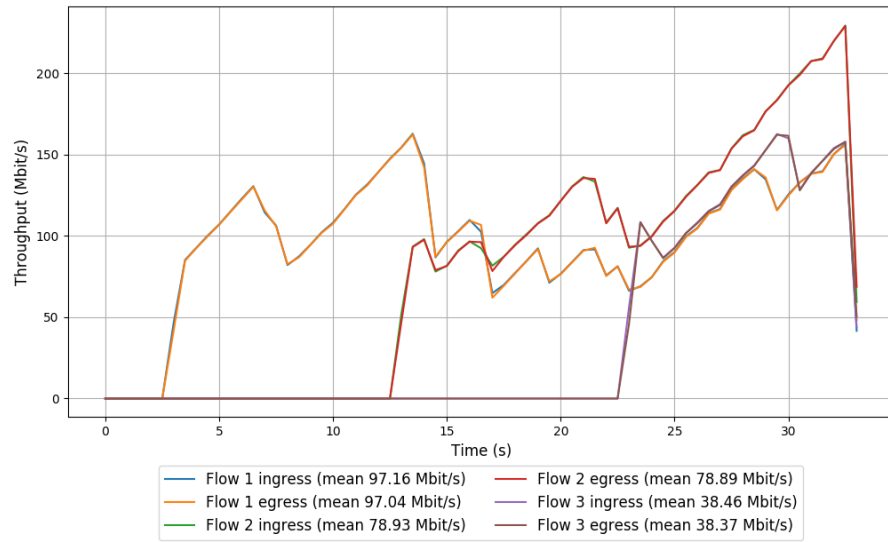
-- Flow 3:

Average throughput: 38.37 Mbit/s

95th percentile per-packet one-way delay: 20.849 ms

Loss rate: 0.27%

### Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: Tue, 04 Jul 2017 19:50:44 +0000

End at: Tue, 04 Jul 2017 19:51:14 +0000

Local clock offset: 0.026 ms

Remote clock offset: -1.166 ms

# Below is generated by plot.py at Wed, 05 Jul 2017 04:44:56 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 276.90 Mbit/s

95th percentile per-packet one-way delay: 20.888 ms

Loss rate: 0.13%

-- Flow 1:

Average throughput: 118.16 Mbit/s

95th percentile per-packet one-way delay: 20.802 ms

Loss rate: 0.14%

-- Flow 2:

Average throughput: 89.80 Mbit/s

95th percentile per-packet one-way delay: 20.902 ms

Loss rate: 0.13%

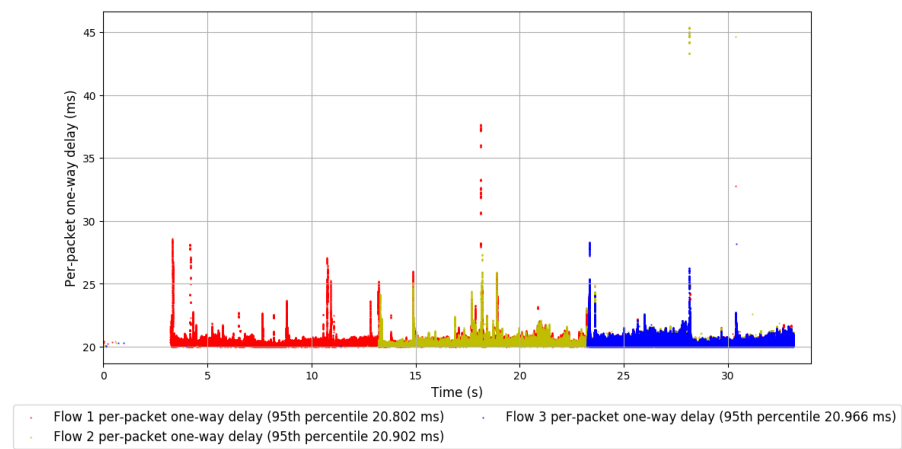
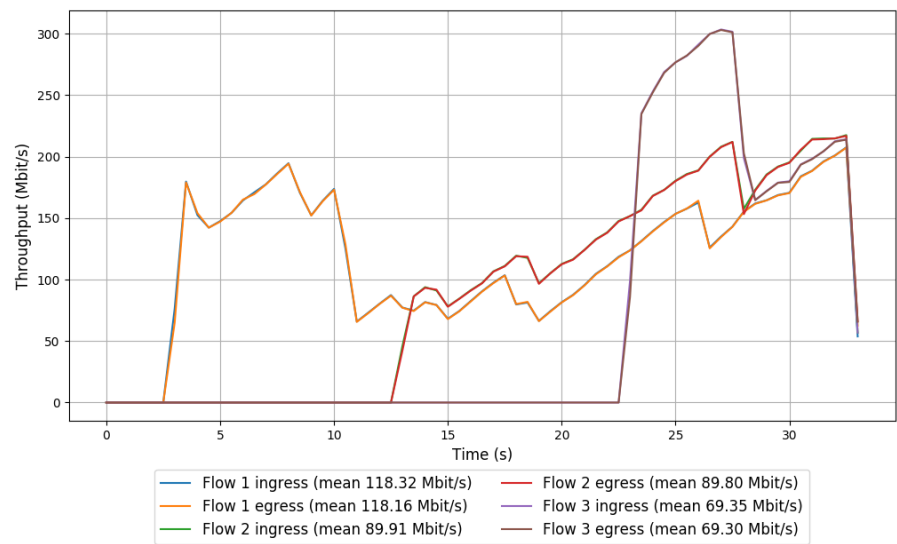
-- Flow 3:

Average throughput: 69.30 Mbit/s

95th percentile per-packet one-way delay: 20.966 ms

Loss rate: 0.13%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: Tue, 04 Jul 2017 20:11:20 +0000

End at: Tue, 04 Jul 2017 20:11:50 +0000

Local clock offset: -0.012 ms

Remote clock offset: -1.055 ms

# Below is generated by plot.py at Wed, 05 Jul 2017 04:45:25 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 410.04 Mbit/s

95th percentile per-packet one-way delay: 23.783 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 175.35 Mbit/s

95th percentile per-packet one-way delay: 23.713 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 156.26 Mbit/s

95th percentile per-packet one-way delay: 23.739 ms

Loss rate: 0.10%

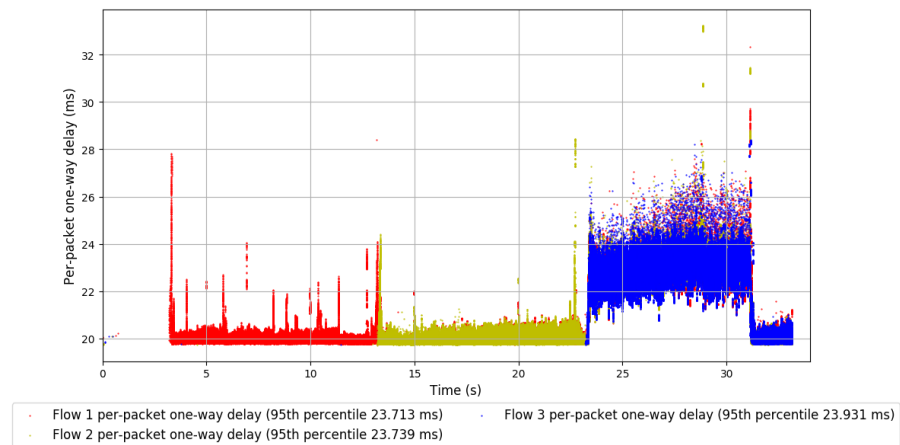
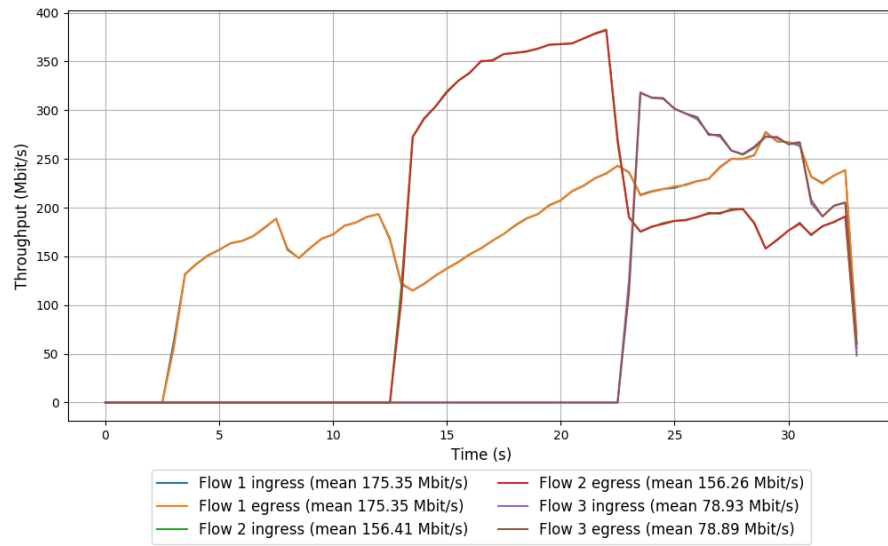
-- Flow 3:

Average throughput: 78.89 Mbit/s

95th percentile per-packet one-way delay: 23.931 ms

Loss rate: 0.04%

## Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: Tue, 04 Jul 2017 20:32:18 +0000

End at: Tue, 04 Jul 2017 20:32:48 +0000

Local clock offset: 0.039 ms

Remote clock offset: -0.815 ms

# Below is generated by plot.py at Wed, 05 Jul 2017 04:45:51 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 381.26 Mbit/s

95th percentile per-packet one-way delay: 22.650 ms

Loss rate: 0.18%

-- Flow 1:

Average throughput: 154.28 Mbit/s

95th percentile per-packet one-way delay: 22.159 ms

Loss rate: 0.16%

-- Flow 2:

Average throughput: 150.19 Mbit/s

95th percentile per-packet one-way delay: 22.367 ms

Loss rate: 0.16%

-- Flow 3:

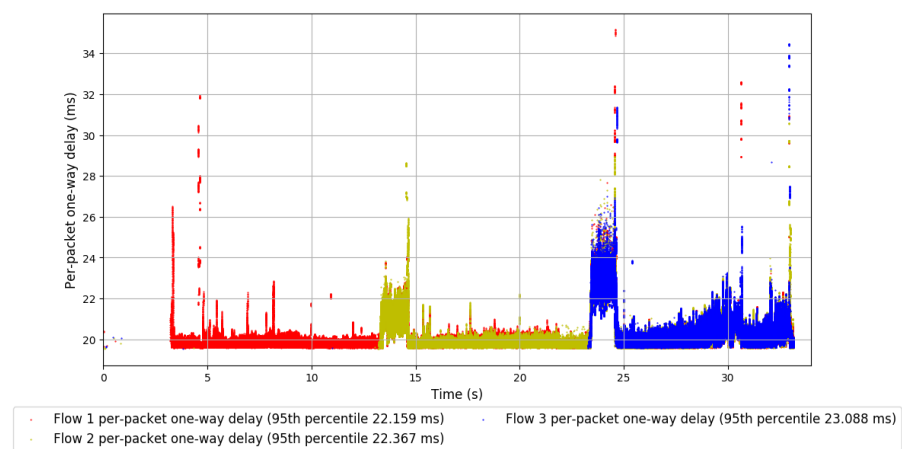
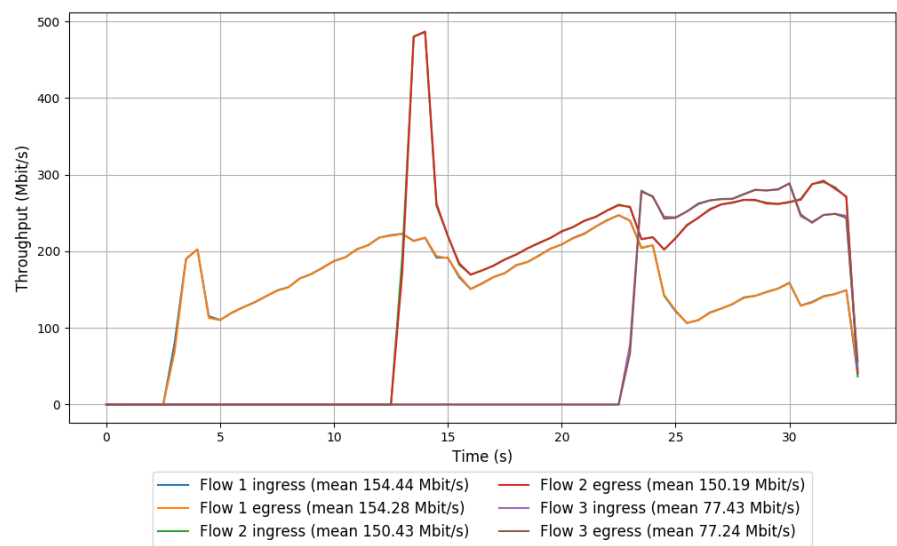
Average throughput: 77.24 Mbit/s

95th percentile per-packet one-way delay: 23.088 ms

Loss rate: 0.24%



Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: Tue, 04 Jul 2017 20:53:08 +0000

End at: Tue, 04 Jul 2017 20:53:38 +0000

Local clock offset: 0.056 ms

Remote clock offset: -0.976 ms

# Below is generated by plot.py at Wed, 05 Jul 2017 04:46:28 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 418.08 Mbit/s

95th percentile per-packet one-way delay: 21.660 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 182.87 Mbit/s

95th percentile per-packet one-way delay: 21.320 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 152.92 Mbit/s

95th percentile per-packet one-way delay: 21.563 ms

Loss rate: 0.08%

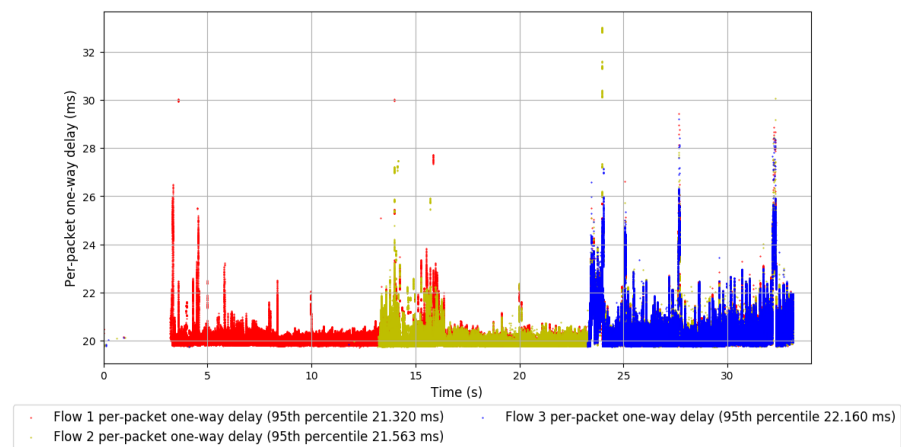
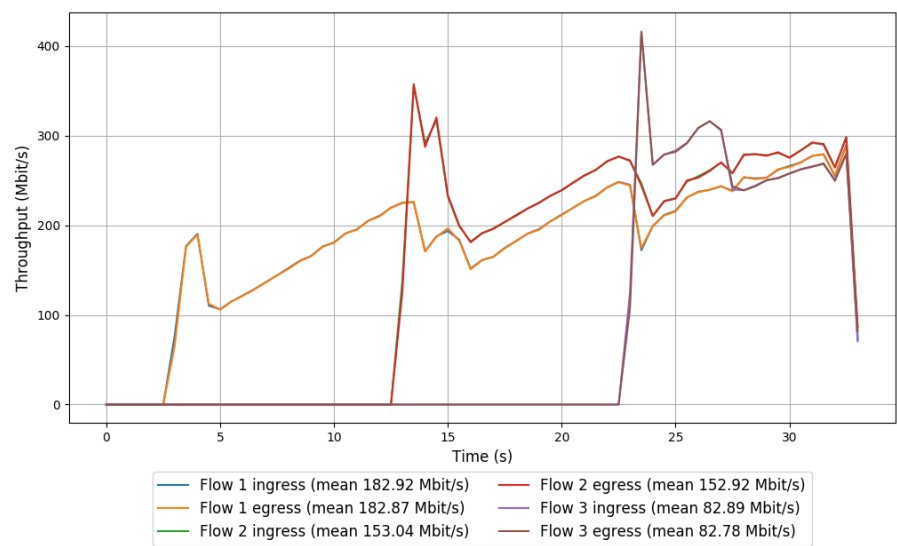
-- Flow 3:

Average throughput: 82.78 Mbit/s

95th percentile per-packet one-way delay: 22.160 ms

Loss rate: 0.14%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: Tue, 04 Jul 2017 21:13:46 +0000

End at: Tue, 04 Jul 2017 21:14:16 +0000

Local clock offset: -0.138 ms

Remote clock offset: -1.067 ms

# Below is generated by plot.py at Wed, 05 Jul 2017 04:46:36 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 279.24 Mbit/s

95th percentile per-packet one-way delay: 20.276 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 134.70 Mbit/s

95th percentile per-packet one-way delay: 20.251 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 100.39 Mbit/s

95th percentile per-packet one-way delay: 20.350 ms

Loss rate: 0.15%

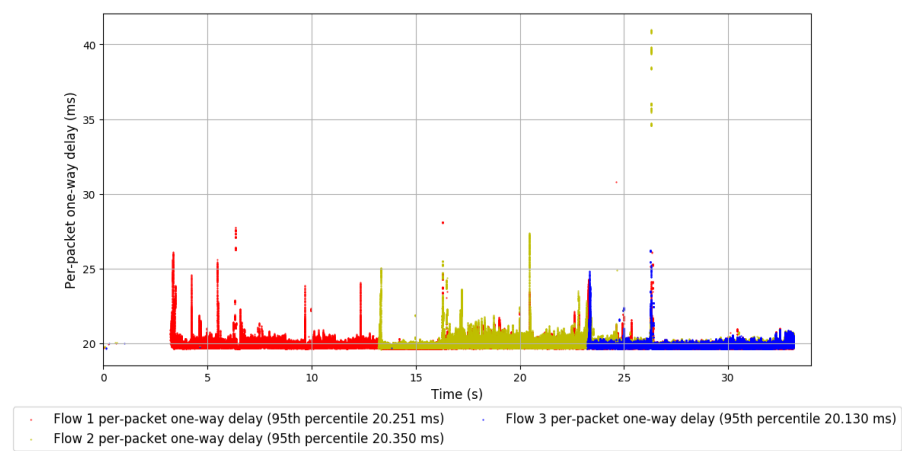
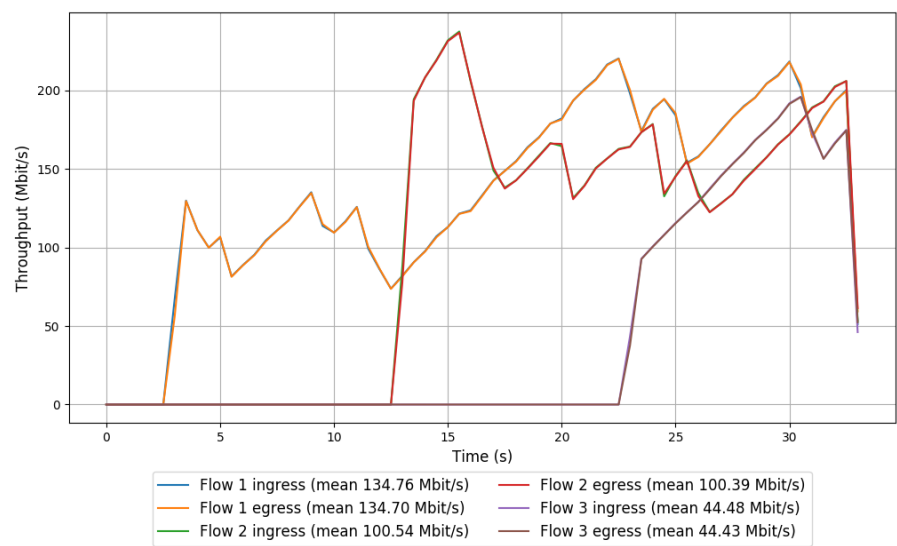
-- Flow 3:

Average throughput: 44.43 Mbit/s

95th percentile per-packet one-way delay: 20.130 ms

Loss rate: 0.11%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: Tue, 04 Jul 2017 21:34:23 +0000

End at: Tue, 04 Jul 2017 21:34:53 +0000

Local clock offset: -0.041 ms

Remote clock offset: -1.541 ms

# Below is generated by plot.py at Wed, 05 Jul 2017 04:47:49 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 544.52 Mbit/s

95th percentile per-packet one-way delay: 23.279 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 283.54 Mbit/s

95th percentile per-packet one-way delay: 23.004 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 185.09 Mbit/s

95th percentile per-packet one-way delay: 23.224 ms

Loss rate: 0.01%

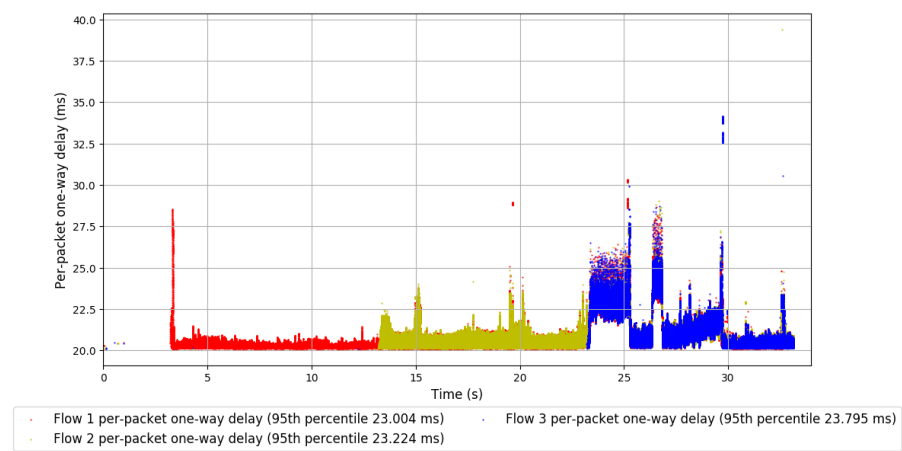
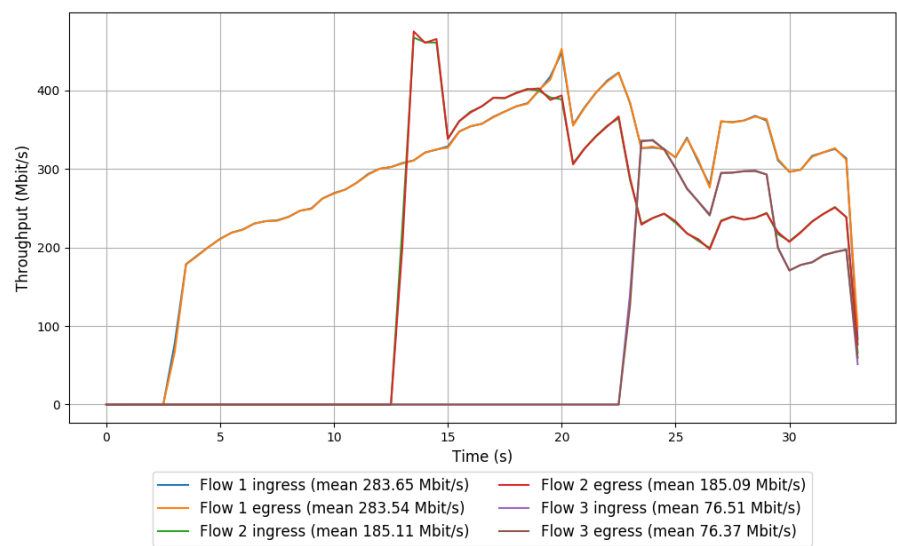
-- Flow 3:

Average throughput: 76.37 Mbit/s

95th percentile per-packet one-way delay: 23.795 ms

Loss rate: 0.23%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: Tue, 04 Jul 2017 21:55:16 +0000

End at: Tue, 04 Jul 2017 21:55:46 +0000

Local clock offset: 0.024 ms

Remote clock offset: -1.803 ms

# Below is generated by plot.py at Wed, 05 Jul 2017 04:47:49 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 355.62 Mbit/s

95th percentile per-packet one-way delay: 21.611 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 163.29 Mbit/s

95th percentile per-packet one-way delay: 21.399 ms

Loss rate: 0.09%

-- Flow 2:

Average throughput: 78.00 Mbit/s

95th percentile per-packet one-way delay: 21.439 ms

Loss rate: 0.10%

-- Flow 3:

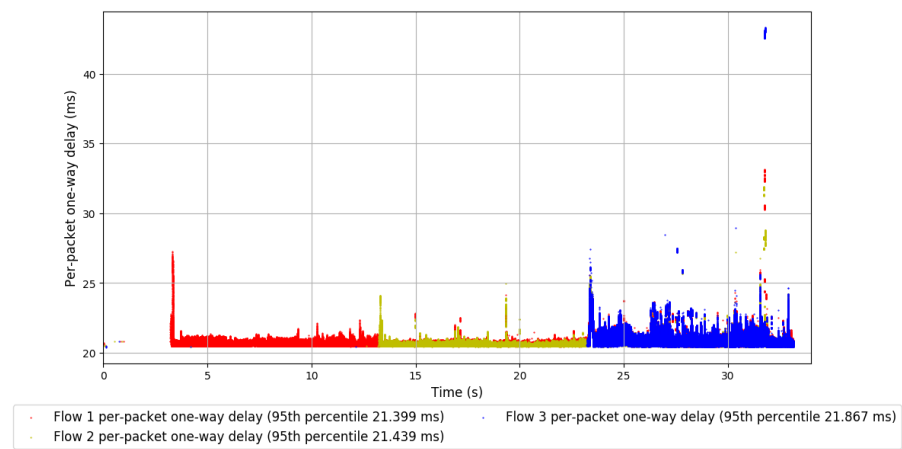
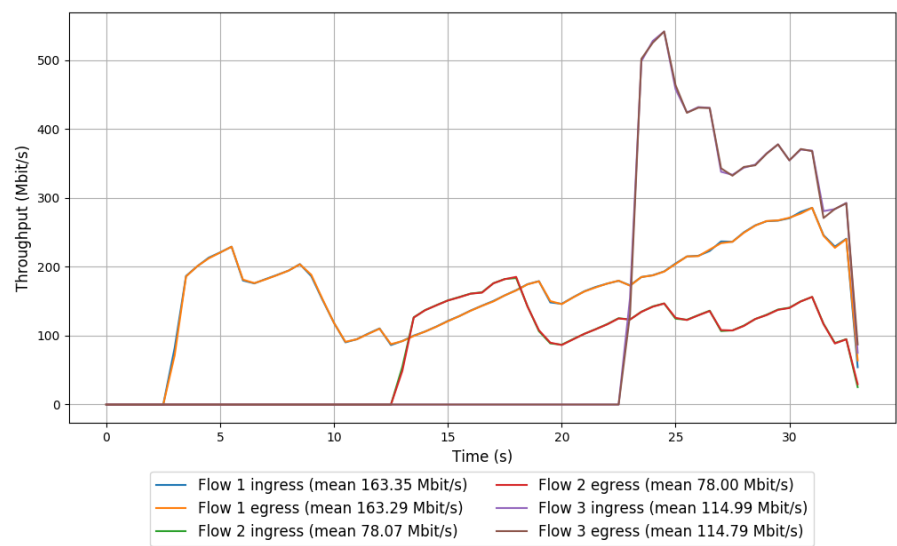
Average throughput: 114.79 Mbit/s

95th percentile per-packet one-way delay: 21.867 ms

Loss rate: 0.18%



Run 10: Report of TCP Cubic — Data Link



Run 1: Statistics of KohoCC

Start at: Tue, 04 Jul 2017 18:46:33 +0000

End at: Tue, 04 Jul 2017 18:47:03 +0000

Local clock offset: 0.55 ms

Remote clock offset: -0.882 ms

# Below is generated by plot.py at Wed, 05 Jul 2017 04:47:49 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 107.05 Mbit/s

95th percentile per-packet one-way delay: 20.518 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 53.68 Mbit/s

95th percentile per-packet one-way delay: 20.521 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 35.73 Mbit/s

95th percentile per-packet one-way delay: 20.560 ms

Loss rate: 0.00%

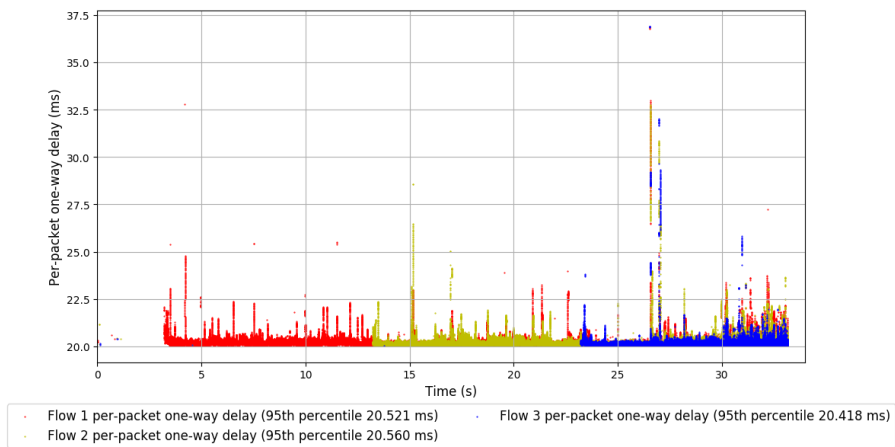
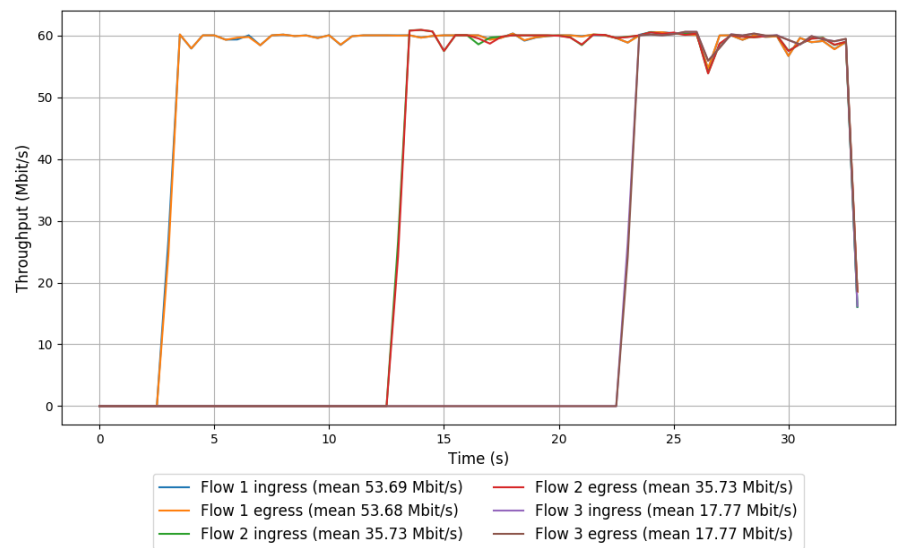
-- Flow 3:

Average throughput: 17.77 Mbit/s

95th percentile per-packet one-way delay: 20.418 ms

Loss rate: 0.00%

Run 1: Report of KohoCC — Data Link



Run 2: Statistics of KohoCC

Start at: Tue, 04 Jul 2017 19:07:39 +0000

End at: Tue, 04 Jul 2017 19:08:09 +0000

Local clock offset: 0.346 ms

Remote clock offset: -1.01 ms

# Below is generated by plot.py at Wed, 05 Jul 2017 04:47:58 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 106.58 Mbit/s

95th percentile per-packet one-way delay: 20.614 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 53.46 Mbit/s

95th percentile per-packet one-way delay: 20.628 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 35.66 Mbit/s

95th percentile per-packet one-way delay: 20.485 ms

Loss rate: 0.00%

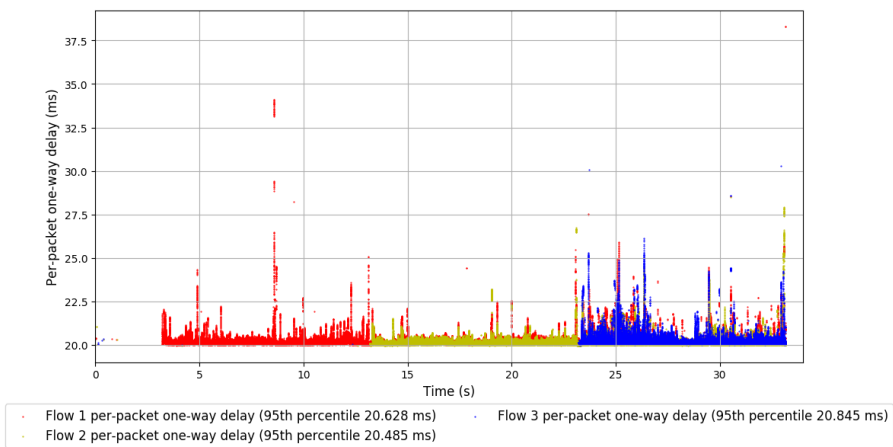
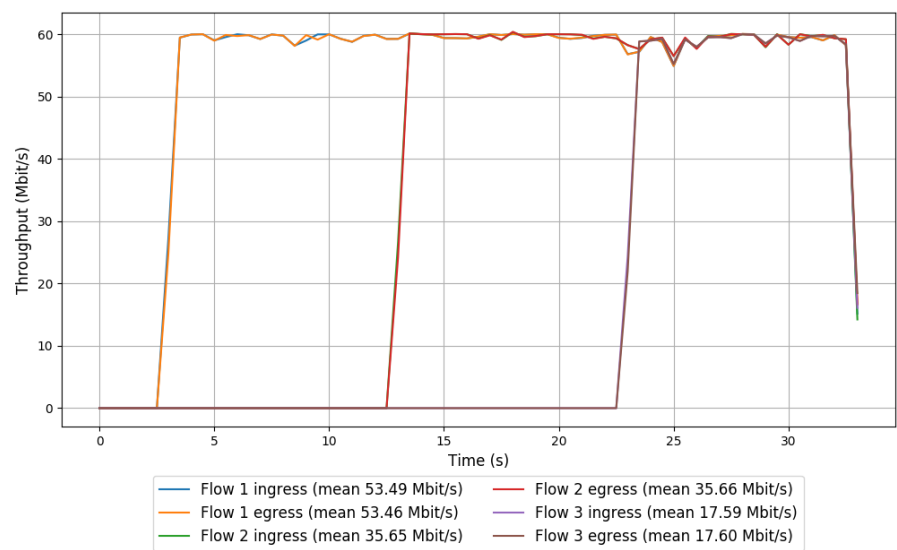
-- Flow 3:

Average throughput: 17.60 Mbit/s

95th percentile per-packet one-way delay: 20.845 ms

Loss rate: 0.00%

Run 2: Report of KohoCC — Data Link



Run 3: Statistics of KohoCC

Start at: Tue, 04 Jul 2017 19:28:30 +0000

End at: Tue, 04 Jul 2017 19:29:00 +0000

Local clock offset: 0.112 ms

Remote clock offset: -1.377 ms

# Below is generated by plot.py at Wed, 05 Jul 2017 04:48:05 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 106.62 Mbit/s

95th percentile per-packet one-way delay: 20.849 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 53.42 Mbit/s

95th percentile per-packet one-way delay: 20.878 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 35.52 Mbit/s

95th percentile per-packet one-way delay: 20.979 ms

Loss rate: 0.00%

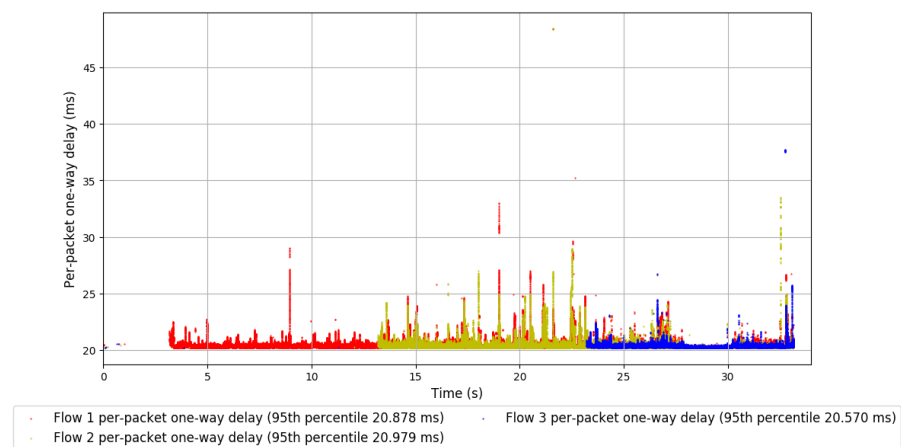
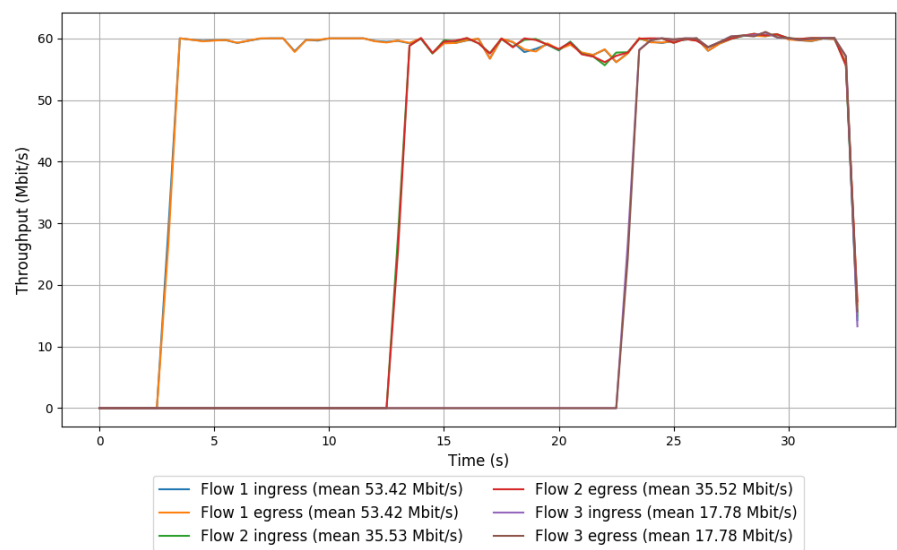
-- Flow 3:

Average throughput: 17.78 Mbit/s

95th percentile per-packet one-way delay: 20.570 ms

Loss rate: 0.00%

Run 3: Report of KohoCC — Data Link



Run 4: Statistics of KohoCC

Start at: Tue, 04 Jul 2017 19:49:26 +0000

End at: Tue, 04 Jul 2017 19:49:56 +0000

Local clock offset: 0.119 ms

Remote clock offset: -1.188 ms

# Below is generated by plot.py at Wed, 05 Jul 2017 04:48:14 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 107.46 Mbit/s

95th percentile per-packet one-way delay: 20.380 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 53.88 Mbit/s

95th percentile per-packet one-way delay: 20.387 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 35.82 Mbit/s

95th percentile per-packet one-way delay: 20.399 ms

Loss rate: 0.00%

-- Flow 3:

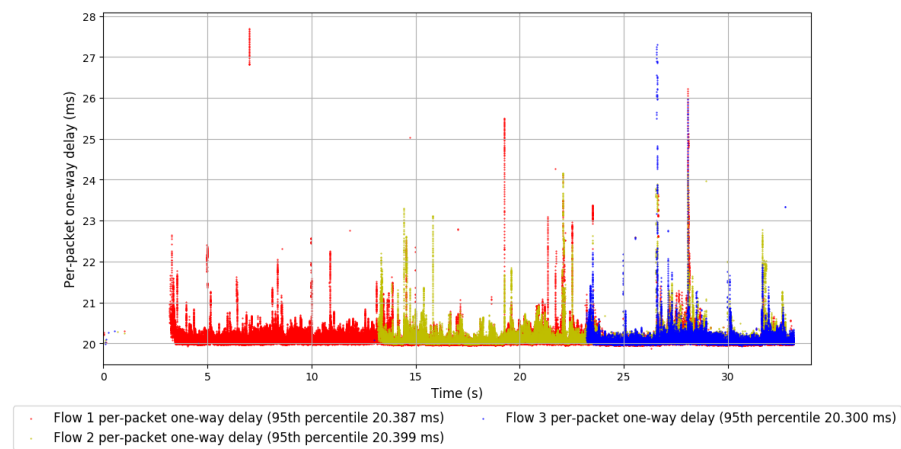
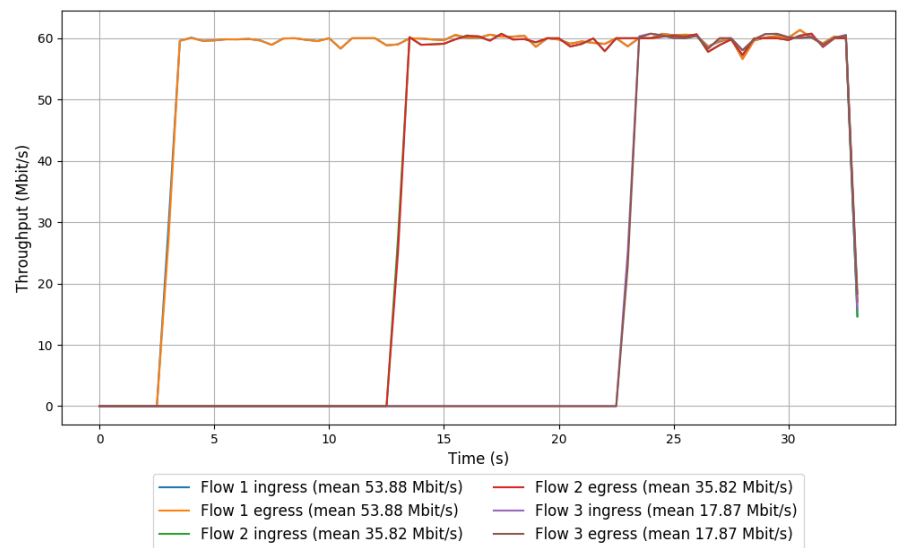
Average throughput: 17.87 Mbit/s

95th percentile per-packet one-way delay: 20.300 ms

Loss rate: 0.00%



Run 4: Report of KohoCC — Data Link



Run 5: Statistics of KohoCC

Start at: Tue, 04 Jul 2017 20:10:02 +0000

End at: Tue, 04 Jul 2017 20:10:32 +0000

Local clock offset: 0.068 ms

Remote clock offset: -1.031 ms

# Below is generated by plot.py at Wed, 05 Jul 2017 04:48:22 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 107.29 Mbit/s

95th percentile per-packet one-way delay: 20.175 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 53.72 Mbit/s

95th percentile per-packet one-way delay: 20.221 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 35.82 Mbit/s

95th percentile per-packet one-way delay: 20.132 ms

Loss rate: 0.01%

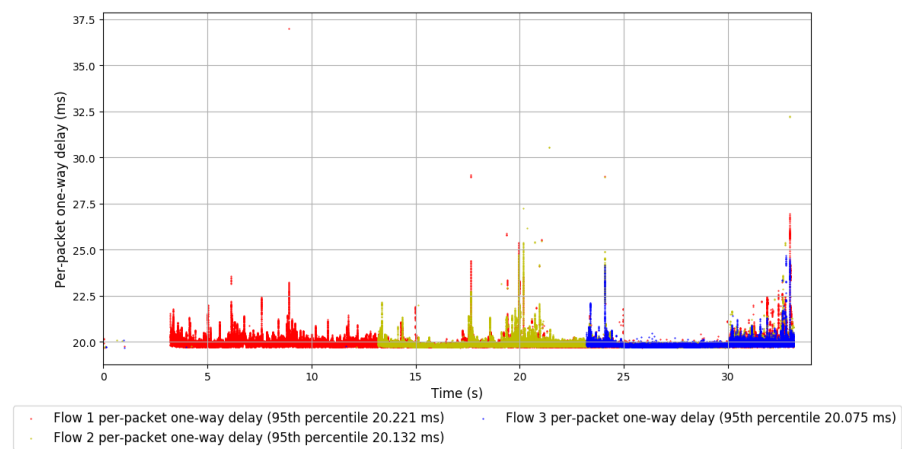
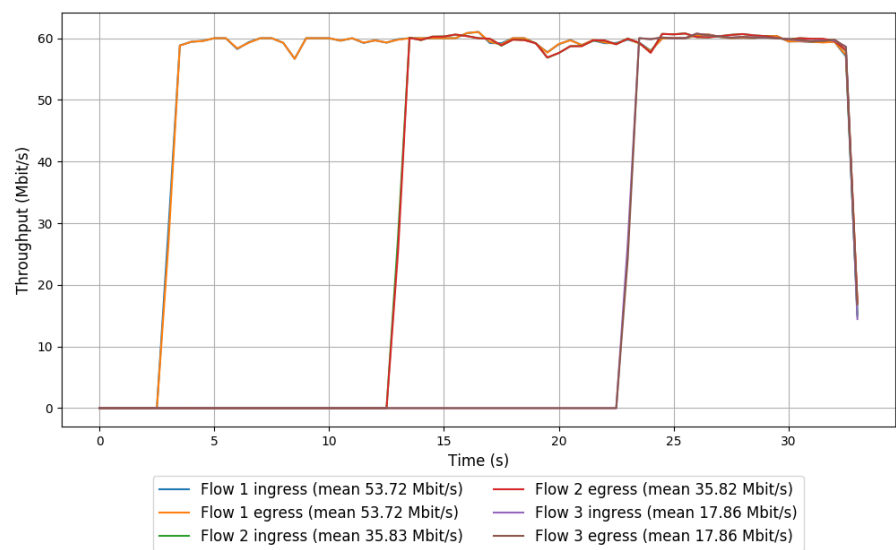
-- Flow 3:

Average throughput: 17.86 Mbit/s

95th percentile per-packet one-way delay: 20.075 ms

Loss rate: 0.00%

Run 5: Report of KohoCC — Data Link



Run 6: Statistics of KohoCC

Start at: Tue, 04 Jul 2017 20:30:59 +0000

End at: Tue, 04 Jul 2017 20:31:29 +0000

Local clock offset: 0.046 ms

Remote clock offset: -0.941 ms

# Below is generated by plot.py at Wed, 05 Jul 2017 04:48:30 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 106.87 Mbit/s

95th percentile per-packet one-way delay: 20.256 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 53.57 Mbit/s

95th percentile per-packet one-way delay: 20.237 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 35.68 Mbit/s

95th percentile per-packet one-way delay: 20.285 ms

Loss rate: 0.00%

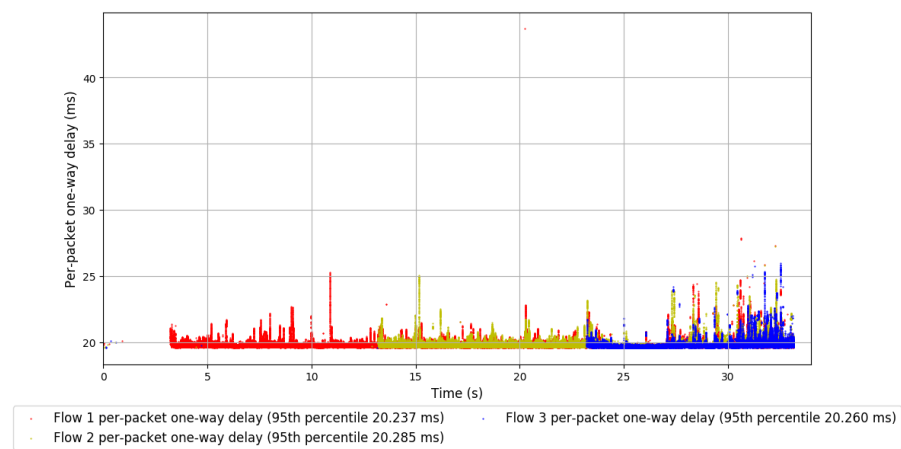
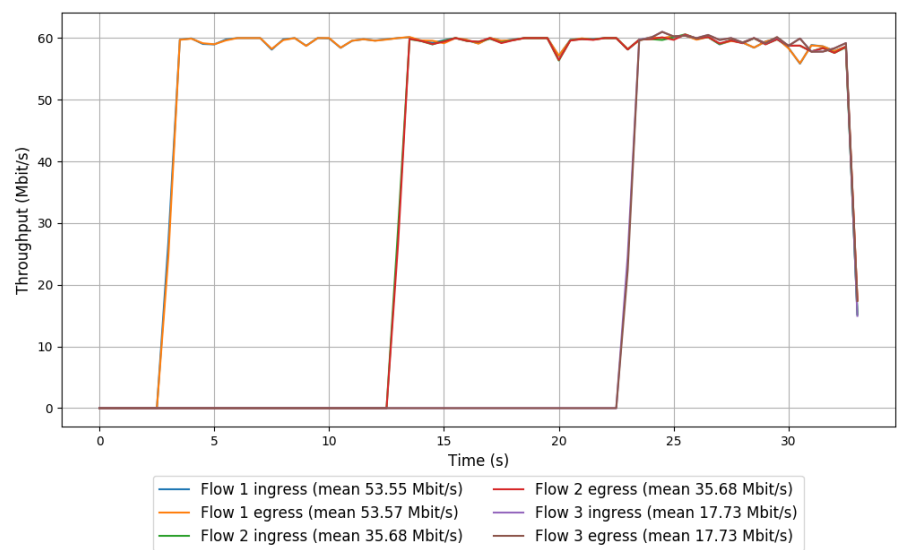
-- Flow 3:

Average throughput: 17.73 Mbit/s

95th percentile per-packet one-way delay: 20.260 ms

Loss rate: 0.00%

Run 6: Report of KohoCC — Data Link



Run 7: Statistics of KohoCC

Start at: Tue, 04 Jul 2017 20:51:50 +0000

End at: Tue, 04 Jul 2017 20:52:20 +0000

Local clock offset: 0.015 ms

Remote clock offset: -1.035 ms

# Below is generated by plot.py at Wed, 05 Jul 2017 04:48:38 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 105.90 Mbit/s

95th percentile per-packet one-way delay: 20.725 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 53.13 Mbit/s

95th percentile per-packet one-way delay: 20.728 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 35.31 Mbit/s

95th percentile per-packet one-way delay: 20.733 ms

Loss rate: 0.00%

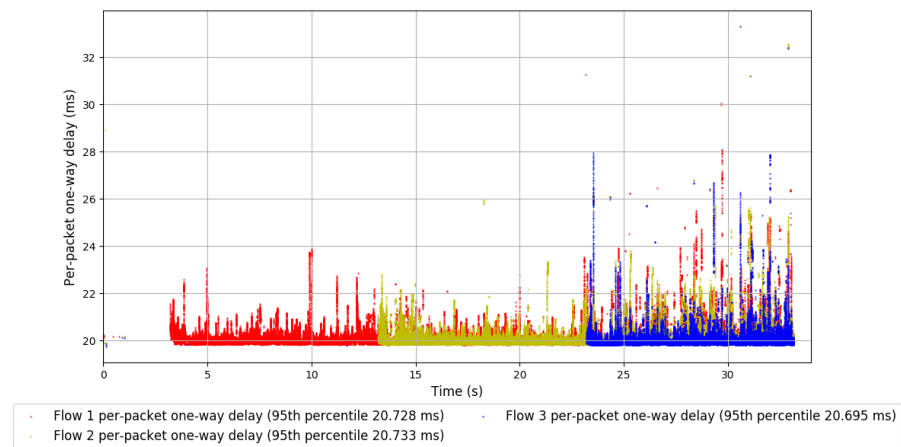
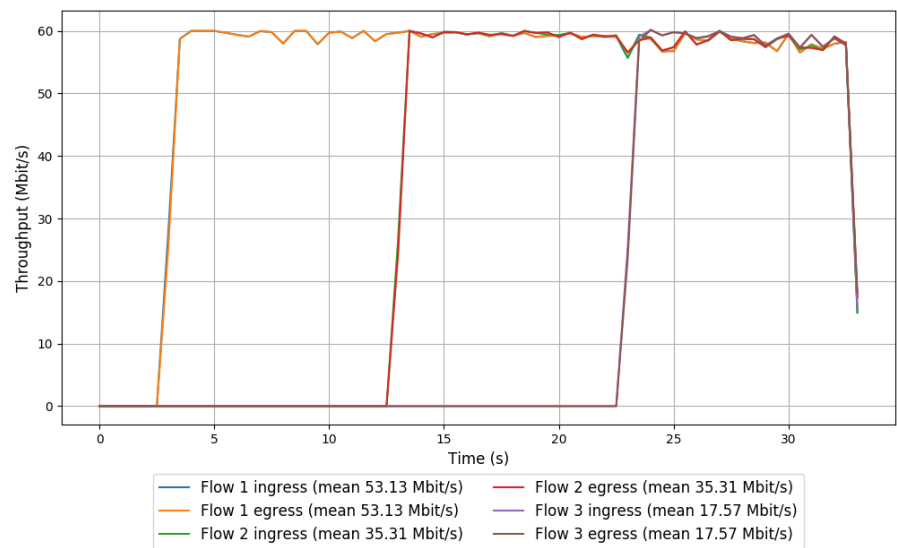
-- Flow 3:

Average throughput: 17.57 Mbit/s

95th percentile per-packet one-way delay: 20.695 ms

Loss rate: 0.00%

Run 7: Report of KohoCC — Data Link



Run 8: Statistics of KohoCC

Start at: Tue, 04 Jul 2017 21:12:28 +0000

End at: Tue, 04 Jul 2017 21:12:58 +0000

Local clock offset: -0.057 ms

Remote clock offset: -1.092 ms

# Below is generated by plot.py at Wed, 05 Jul 2017 04:48:46 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 105.87 Mbit/s

95th percentile per-packet one-way delay: 20.604 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 53.27 Mbit/s

95th percentile per-packet one-way delay: 20.486 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 35.27 Mbit/s

95th percentile per-packet one-way delay: 20.781 ms

Loss rate: 0.00%

-- Flow 3:

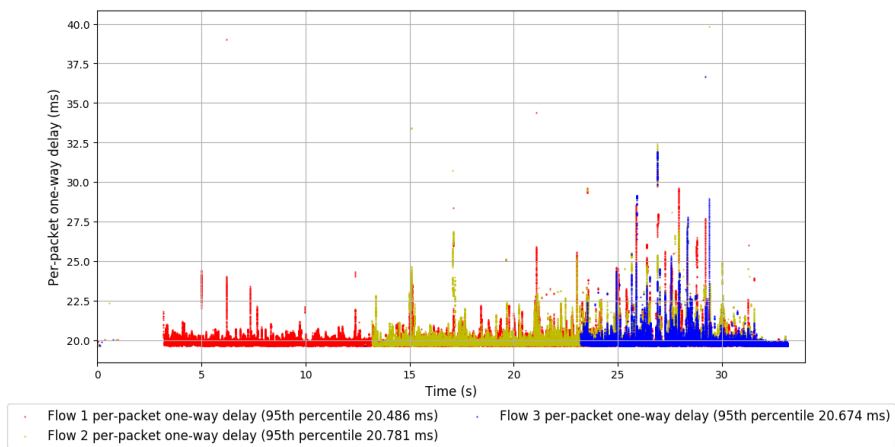
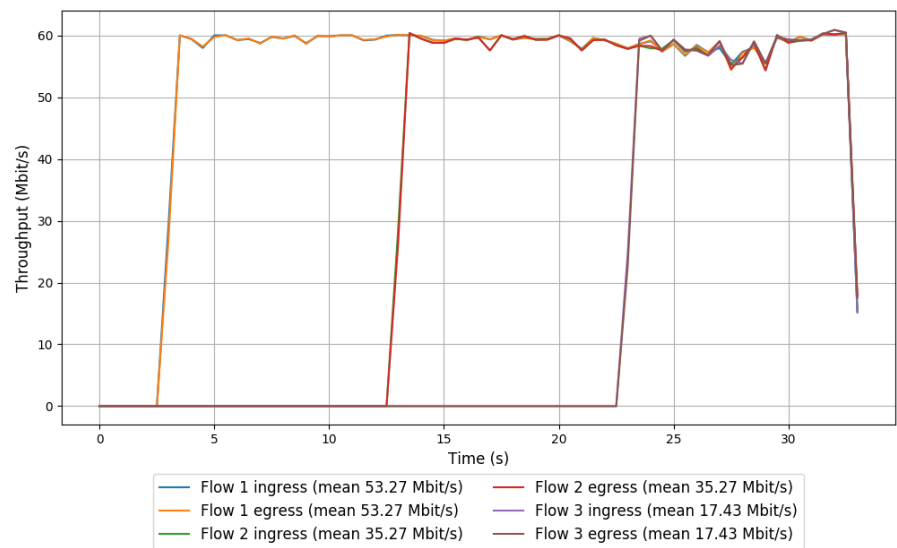
Average throughput: 17.43 Mbit/s

95th percentile per-packet one-way delay: 20.674 ms

Loss rate: 0.01%



Run 8: Report of KohoCC — Data Link



Run 9: Statistics of KohoCC

Start at: Tue, 04 Jul 2017 21:33:05 +0000

End at: Tue, 04 Jul 2017 21:33:35 +0000

Local clock offset: -0.138 ms

Remote clock offset: -1.493 ms

# Below is generated by plot.py at Wed, 05 Jul 2017 04:48:54 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 106.45 Mbit/s

95th percentile per-packet one-way delay: 20.793 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 53.50 Mbit/s

95th percentile per-packet one-way delay: 20.678 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 35.47 Mbit/s

95th percentile per-packet one-way delay: 20.928 ms

Loss rate: 0.00%

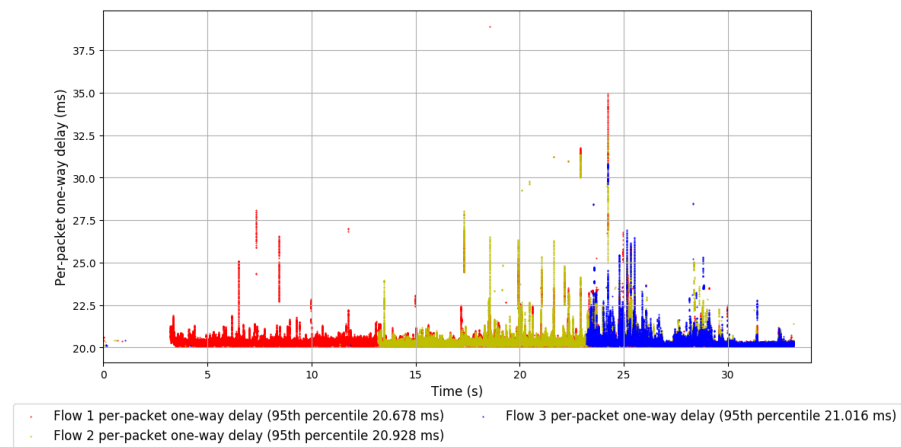
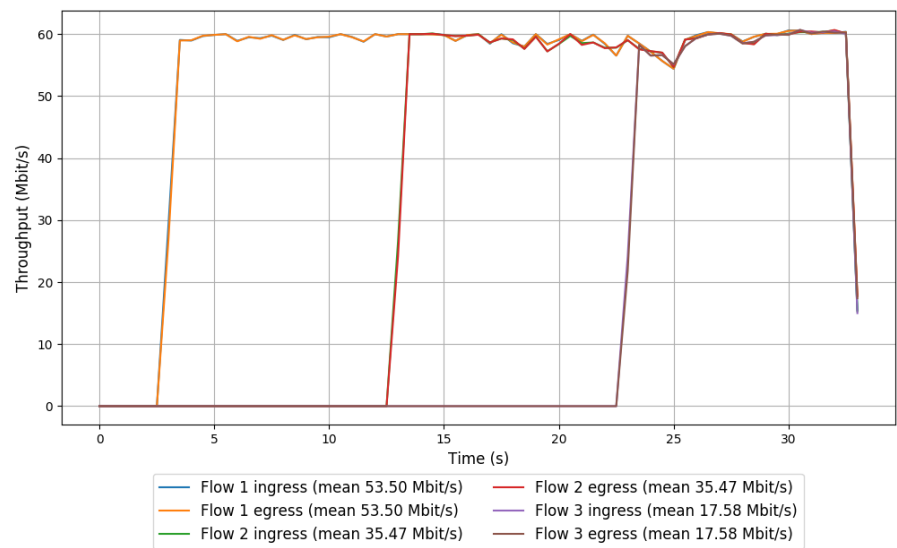
-- Flow 3:

Average throughput: 17.58 Mbit/s

95th percentile per-packet one-way delay: 21.016 ms

Loss rate: 0.00%

Run 9: Report of KohoCC — Data Link



Run 10: Statistics of KohoCC

Start at: Tue, 04 Jul 2017 21:53:58 +0000

End at: Tue, 04 Jul 2017 21:54:28 +0000

Local clock offset: 0.019 ms

Remote clock offset: -1.795 ms

# Below is generated by plot.py at Wed, 05 Jul 2017 04:49:03 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 107.33 Mbit/s

95th percentile per-packet one-way delay: 20.933 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 53.70 Mbit/s

95th percentile per-packet one-way delay: 21.015 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 35.83 Mbit/s

95th percentile per-packet one-way delay: 20.860 ms

Loss rate: 0.00%

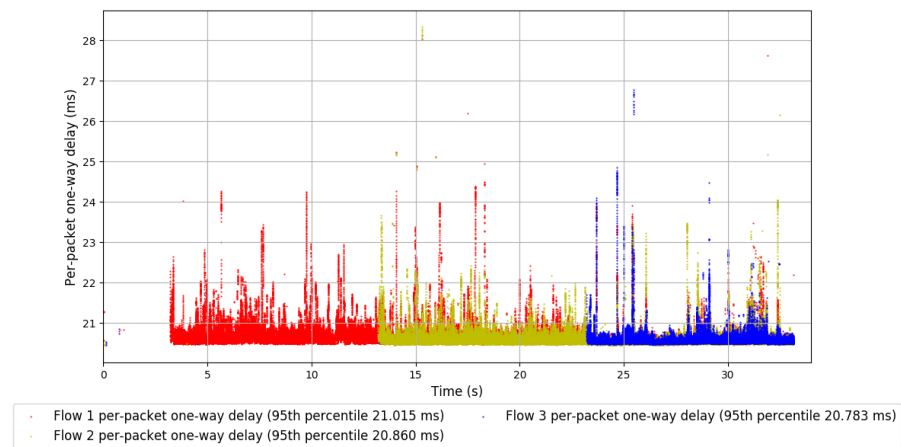
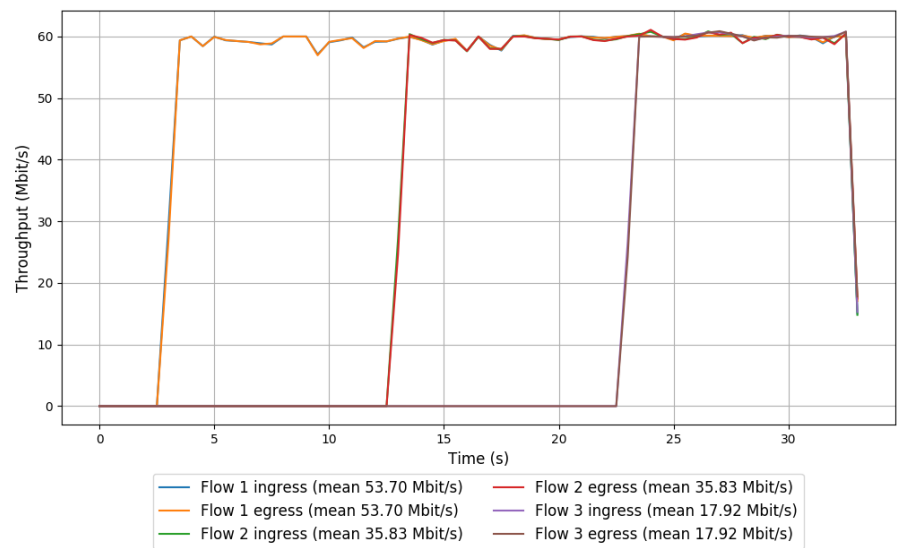
-- Flow 3:

Average throughput: 17.92 Mbit/s

95th percentile per-packet one-way delay: 20.783 ms

Loss rate: 0.01%

Run 10: Report of KohoCC — Data Link



Run 1: Statistics of LEDBAT

Start at: Tue, 04 Jul 2017 18:37:23 +0000

End at: Tue, 04 Jul 2017 18:37:53 +0000

Local clock offset: 0.492 ms

Remote clock offset: -0.904 ms

# Below is generated by plot.py at Wed, 05 Jul 2017 04:49:20 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 192.87 Mbit/s

95th percentile per-packet one-way delay: 20.543 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 88.69 Mbit/s

95th percentile per-packet one-way delay: 20.678 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 73.28 Mbit/s

95th percentile per-packet one-way delay: 20.437 ms

Loss rate: 0.03%

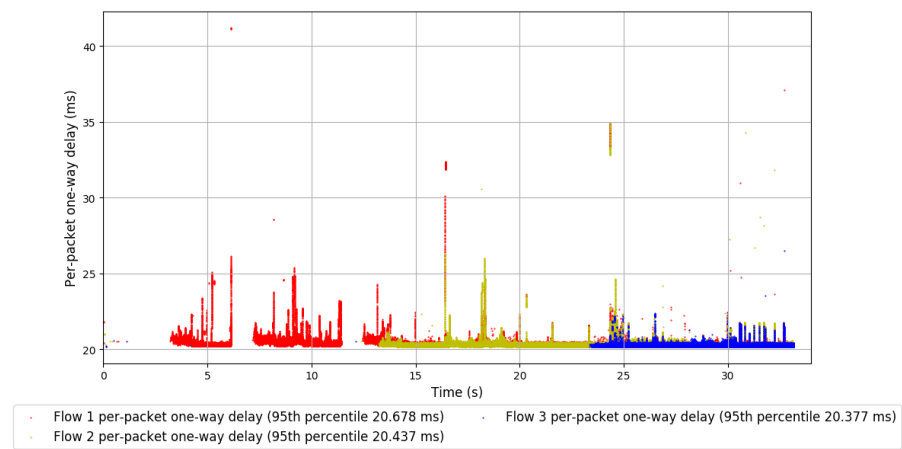
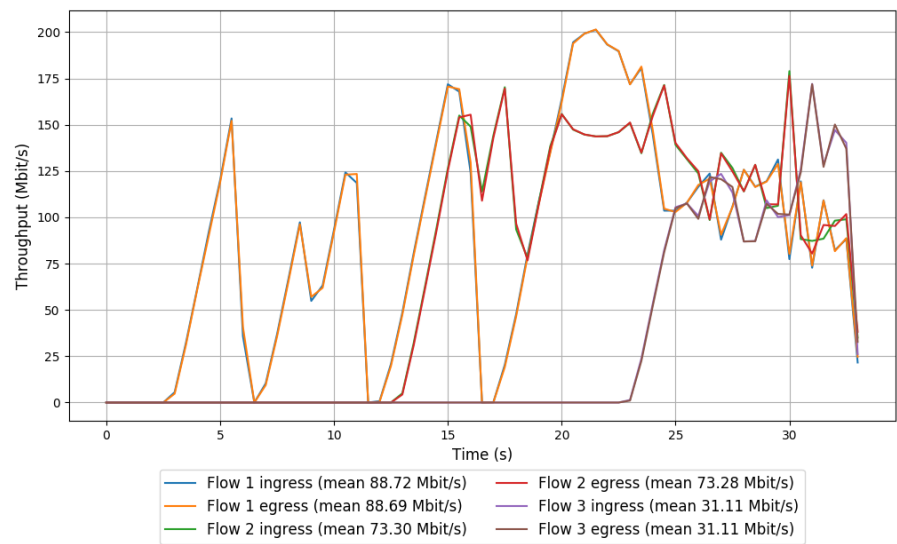
-- Flow 3:

Average throughput: 31.11 Mbit/s

95th percentile per-packet one-way delay: 20.377 ms

Loss rate: 0.00%

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: Tue, 04 Jul 2017 18:58:21 +0000

End at: Tue, 04 Jul 2017 18:58:51 +0000

Local clock offset: 0.4 ms

Remote clock offset: -0.835 ms

# Below is generated by plot.py at Wed, 05 Jul 2017 04:49:31 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 190.29 Mbit/s

95th percentile per-packet one-way delay: 20.308 ms

Loss rate: 0.14%

-- Flow 1:

Average throughput: 98.74 Mbit/s

95th percentile per-packet one-way delay: 20.320 ms

Loss rate: 0.15%

-- Flow 2:

Average throughput: 64.85 Mbit/s

95th percentile per-packet one-way delay: 20.255 ms

Loss rate: 0.15%

-- Flow 3:

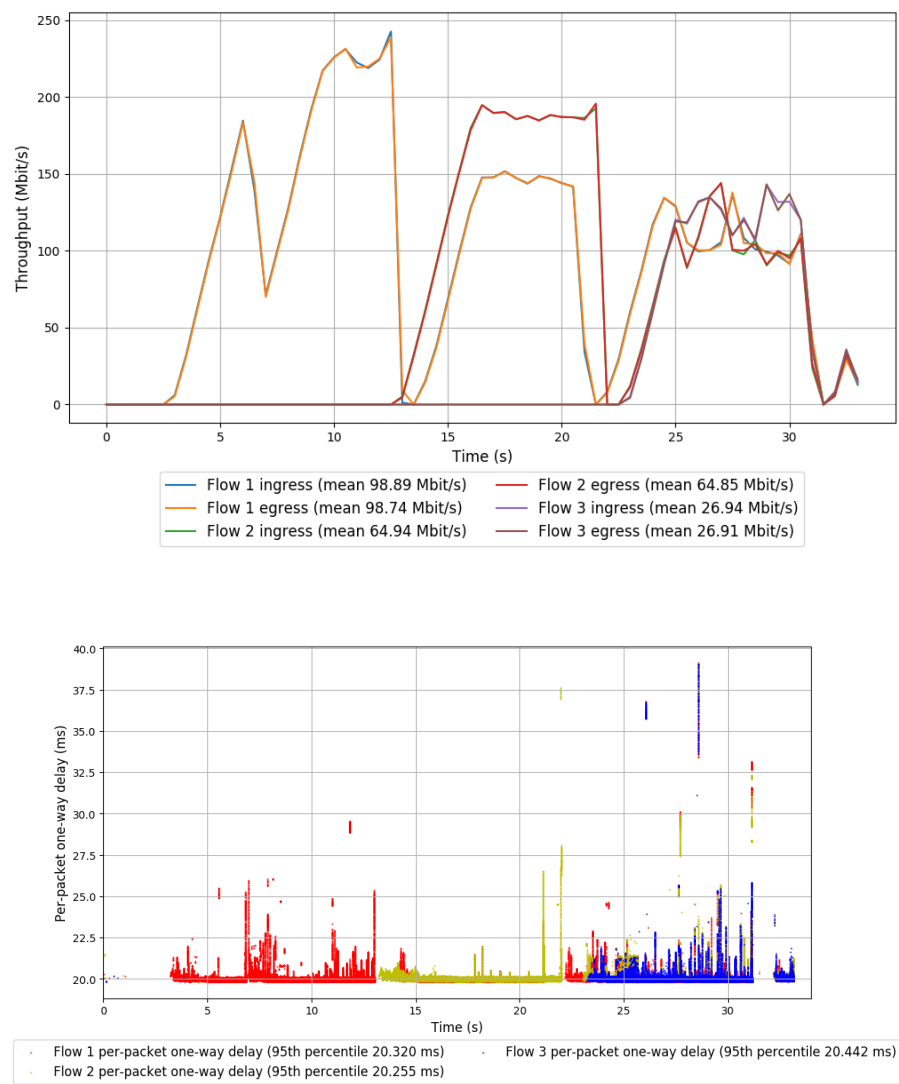
Average throughput: 26.91 Mbit/s

95th percentile per-packet one-way delay: 20.442 ms

Loss rate: 0.09%



Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: Tue, 04 Jul 2017 19:19:21 +0000

End at: Tue, 04 Jul 2017 19:19:51 +0000

Local clock offset: 0.269 ms

Remote clock offset: -1.208 ms

# Below is generated by plot.py at Wed, 05 Jul 2017 04:49:43 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 142.95 Mbit/s

95th percentile per-packet one-way delay: 20.837 ms

Loss rate: 0.16%

-- Flow 1:

Average throughput: 74.11 Mbit/s

95th percentile per-packet one-way delay: 20.901 ms

Loss rate: 0.15%

-- Flow 2:

Average throughput: 40.40 Mbit/s

95th percentile per-packet one-way delay: 20.784 ms

Loss rate: 0.20%

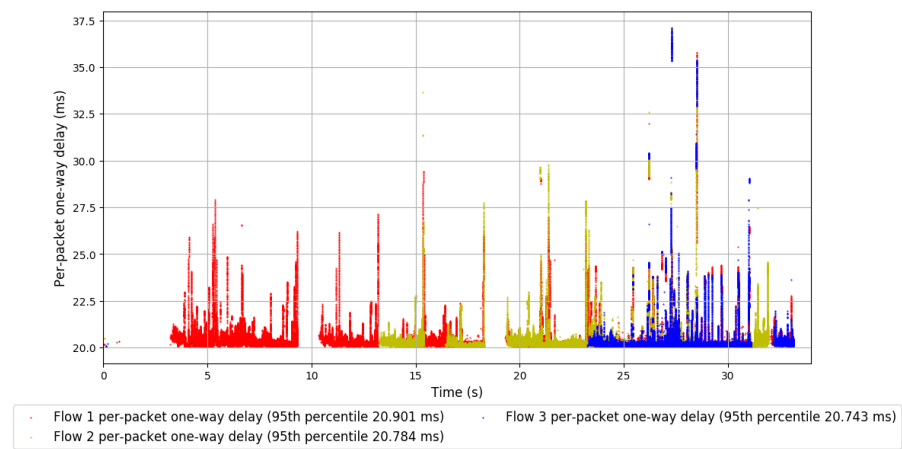
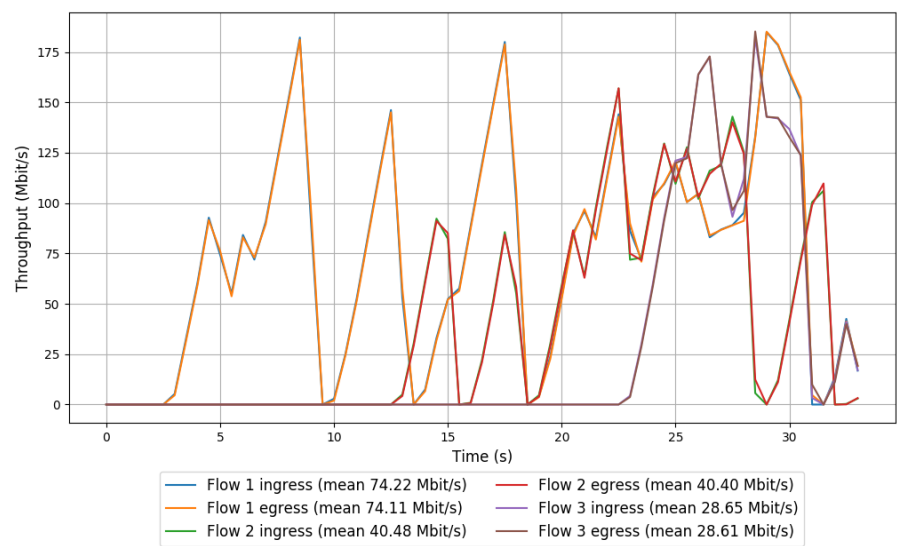
-- Flow 3:

Average throughput: 28.61 Mbit/s

95th percentile per-packet one-way delay: 20.743 ms

Loss rate: 0.14%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: Tue, 04 Jul 2017 19:40:06 +0000

End at: Tue, 04 Jul 2017 19:40:36 +0000

Local clock offset: 0.126 ms

Remote clock offset: -1.478 ms

# Below is generated by plot.py at Wed, 05 Jul 2017 04:49:58 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 187.94 Mbit/s

95th percentile per-packet one-way delay: 20.710 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 94.67 Mbit/s

95th percentile per-packet one-way delay: 20.802 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 71.62 Mbit/s

95th percentile per-packet one-way delay: 20.651 ms

Loss rate: 0.02%

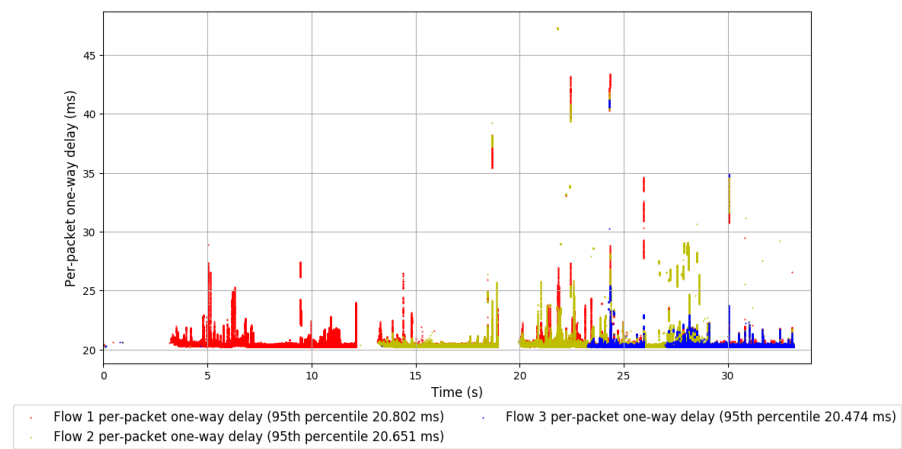
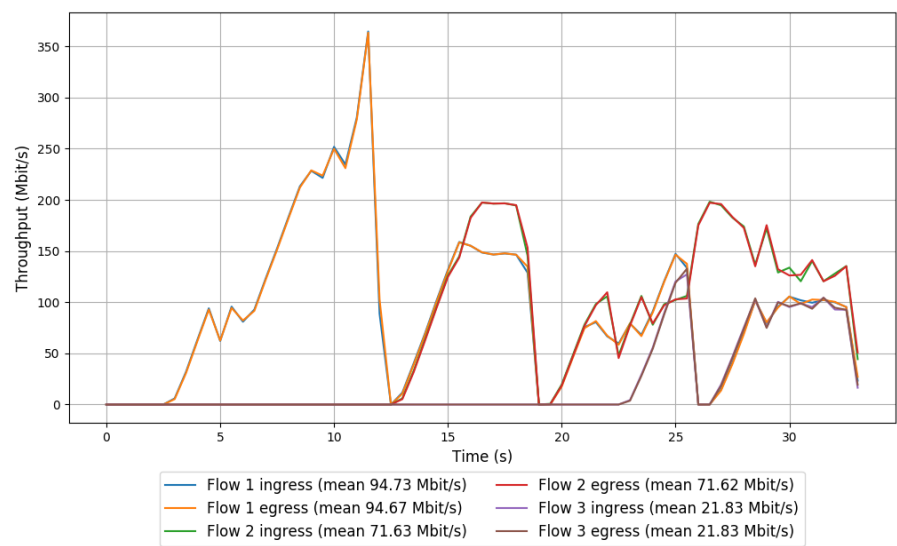
-- Flow 3:

Average throughput: 21.83 Mbit/s

95th percentile per-packet one-way delay: 20.474 ms

Loss rate: 0.00%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: Tue, 04 Jul 2017 20:00:49 +0000

End at: Tue, 04 Jul 2017 20:01:19 +0000

Local clock offset: 0.101 ms

Remote clock offset: -0.997 ms

# Below is generated by plot.py at Wed, 05 Jul 2017 04:50:09 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 169.34 Mbit/s

95th percentile per-packet one-way delay: 20.328 ms

Loss rate: 0.15%

-- Flow 1:

Average throughput: 82.09 Mbit/s

95th percentile per-packet one-way delay: 20.351 ms

Loss rate: 0.23%

-- Flow 2:

Average throughput: 57.52 Mbit/s

95th percentile per-packet one-way delay: 20.381 ms

Loss rate: 0.08%

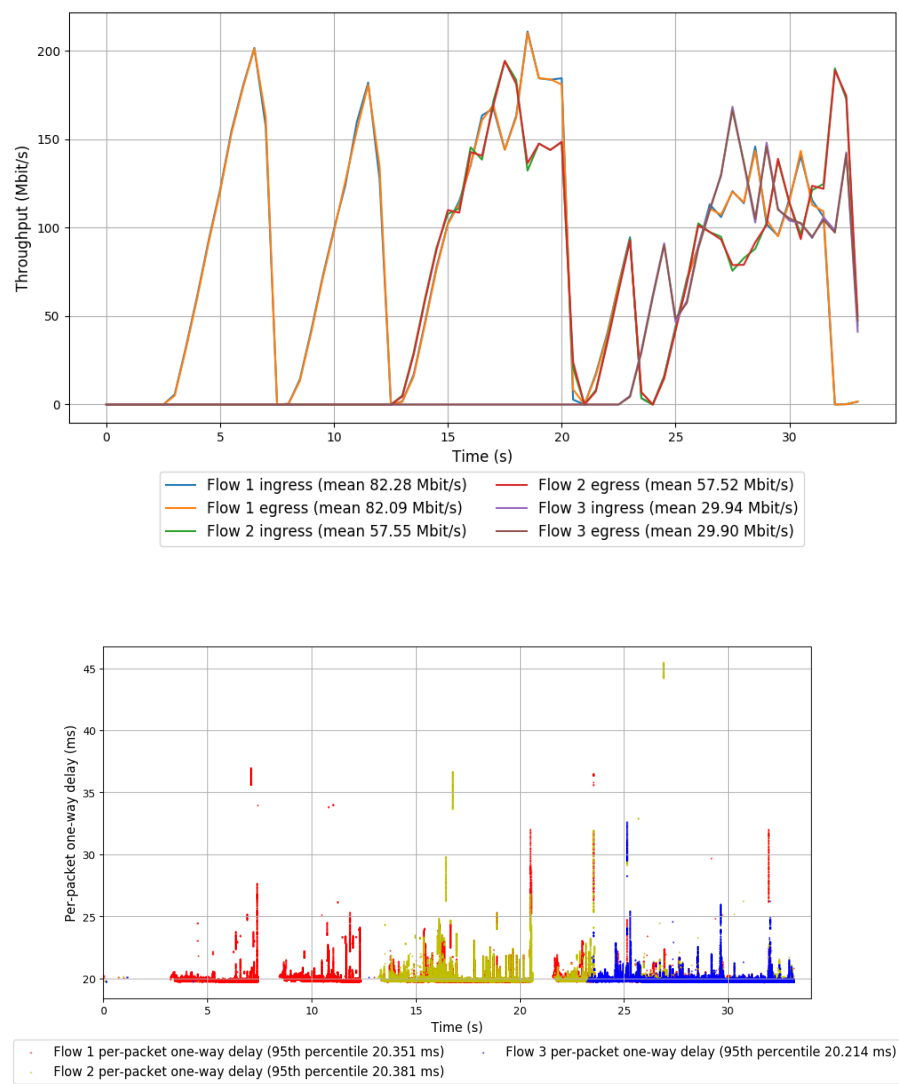
-- Flow 3:

Average throughput: 29.90 Mbit/s

95th percentile per-packet one-way delay: 20.214 ms

Loss rate: 0.10%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: Tue, 04 Jul 2017 20:21:47 +0000

End at: Tue, 04 Jul 2017 20:22:17 +0000

Local clock offset: 0.046 ms

Remote clock offset: -0.996 ms

# Below is generated by plot.py at Wed, 05 Jul 2017 04:50:27 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 202.94 Mbit/s

95th percentile per-packet one-way delay: 20.163 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 130.92 Mbit/s

95th percentile per-packet one-way delay: 20.136 ms

Loss rate: 0.09%

-- Flow 2:

Average throughput: 52.55 Mbit/s

95th percentile per-packet one-way delay: 20.158 ms

Loss rate: 0.15%

-- Flow 3:

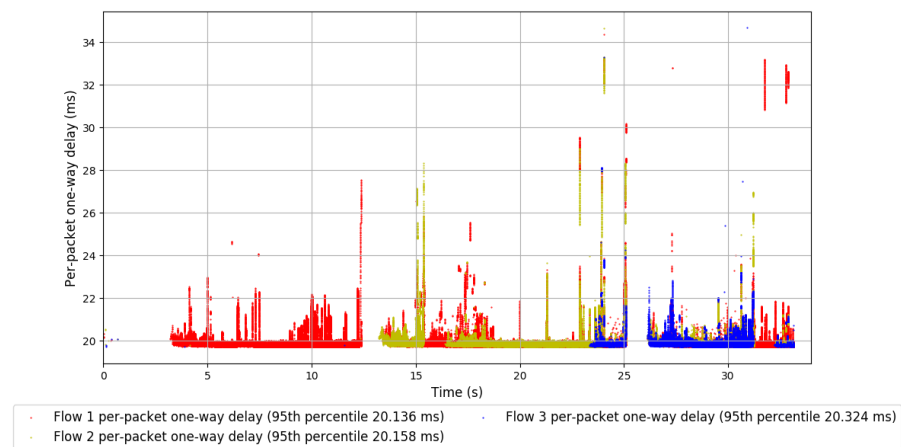
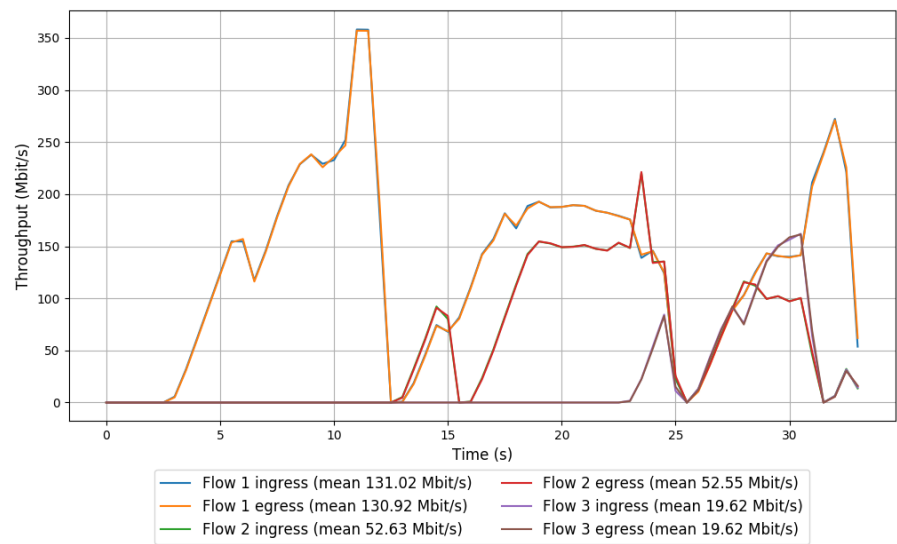
Average throughput: 19.62 Mbit/s

95th percentile per-packet one-way delay: 20.324 ms

Loss rate: 0.05%



Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: Tue, 04 Jul 2017 20:42:38 +0000

End at: Tue, 04 Jul 2017 20:43:08 +0000

Local clock offset: -0.027 ms

Remote clock offset: -0.737 ms

# Below is generated by plot.py at Wed, 05 Jul 2017 04:50:42 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 229.53 Mbit/s

95th percentile per-packet one-way delay: 19.819 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 133.71 Mbit/s

95th percentile per-packet one-way delay: 19.792 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 76.31 Mbit/s

95th percentile per-packet one-way delay: 19.812 ms

Loss rate: 0.04%

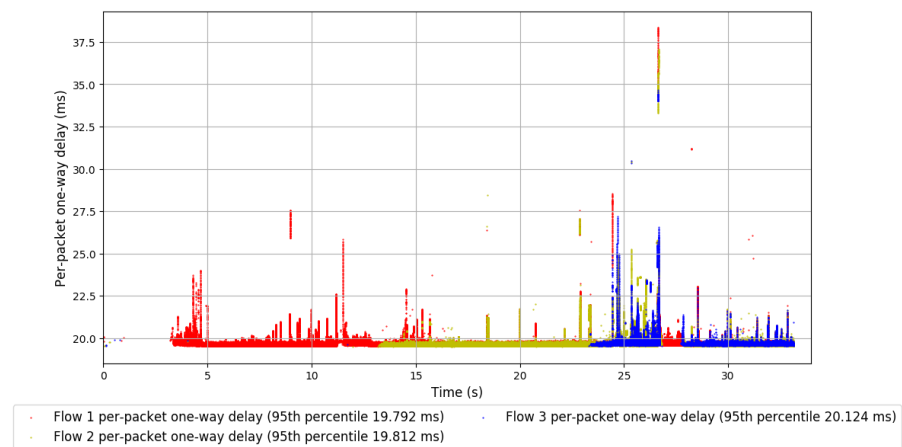
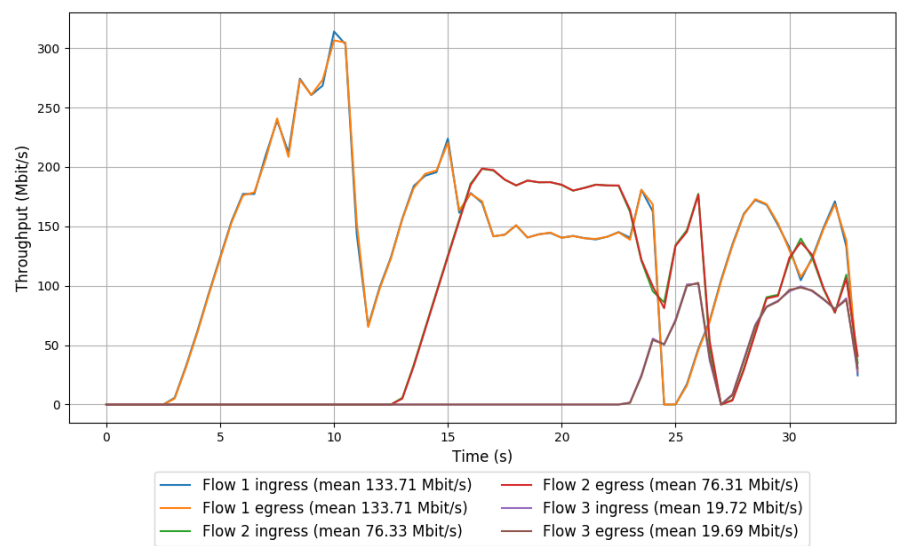
-- Flow 3:

Average throughput: 19.69 Mbit/s

95th percentile per-packet one-way delay: 20.124 ms

Loss rate: 0.15%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: Tue, 04 Jul 2017 21:03:14 +0000

End at: Tue, 04 Jul 2017 21:03:44 +0000

Local clock offset: 0.013 ms

Remote clock offset: -0.926 ms

# Below is generated by plot.py at Wed, 05 Jul 2017 04:51:01 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 226.35 Mbit/s

95th percentile per-packet one-way delay: 19.946 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 106.10 Mbit/s

95th percentile per-packet one-way delay: 20.032 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 91.19 Mbit/s

95th percentile per-packet one-way delay: 19.842 ms

Loss rate: 0.00%

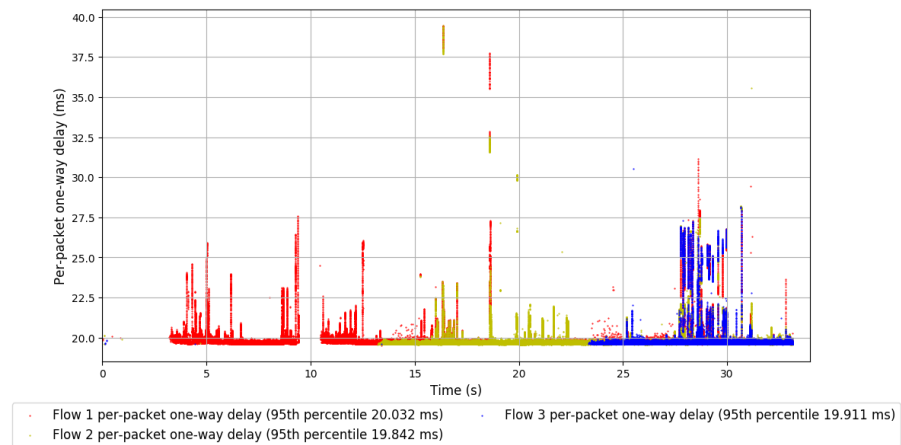
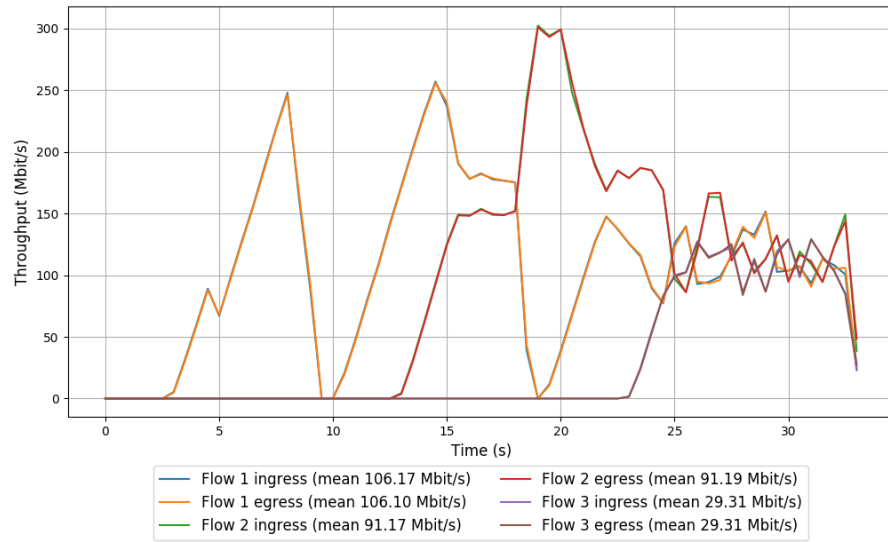
-- Flow 3:

Average throughput: 29.31 Mbit/s

95th percentile per-packet one-way delay: 19.911 ms

Loss rate: 0.00%

## Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: Tue, 04 Jul 2017 21:23:45 +0000

End at: Tue, 04 Jul 2017 21:24:15 +0000

Local clock offset: -0.16 ms

Remote clock offset: -1.246 ms

# Below is generated by plot.py at Wed, 05 Jul 2017 04:51:11 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 193.30 Mbit/s

95th percentile per-packet one-way delay: 20.252 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 104.99 Mbit/s

95th percentile per-packet one-way delay: 20.262 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 53.88 Mbit/s

95th percentile per-packet one-way delay: 20.186 ms

Loss rate: 0.16%

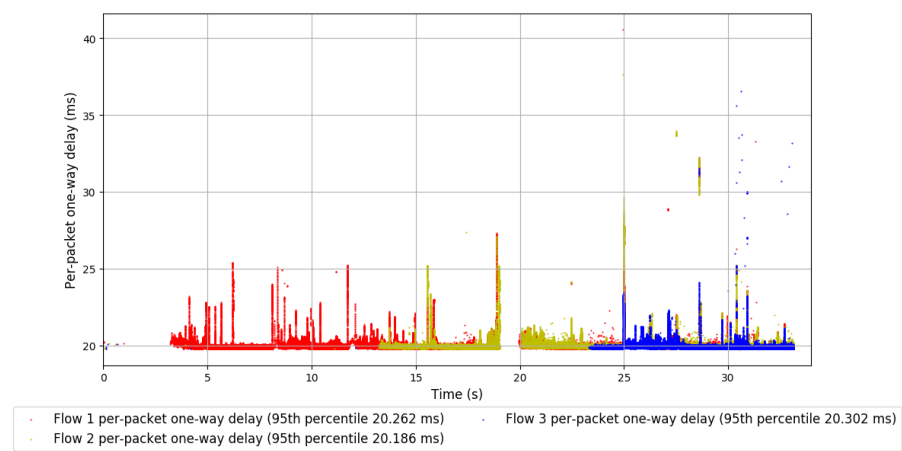
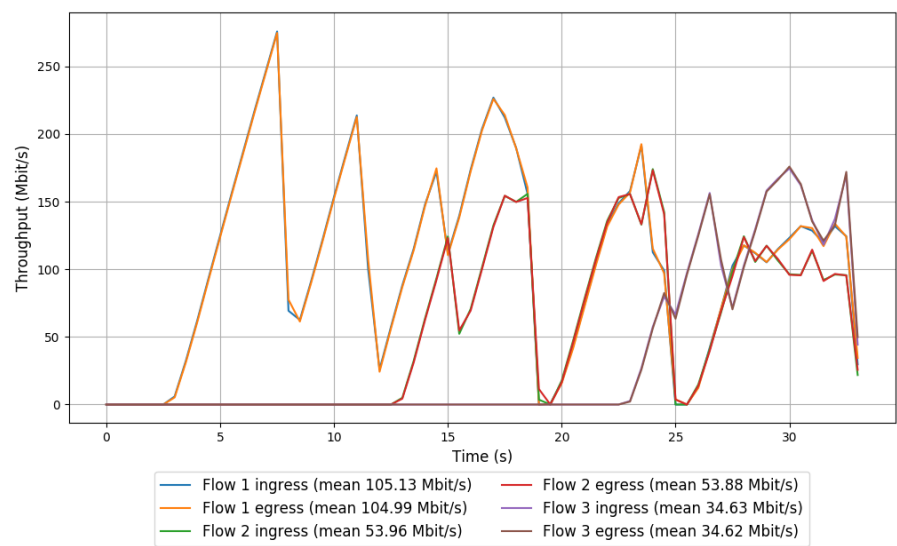
-- Flow 3:

Average throughput: 34.62 Mbit/s

95th percentile per-packet one-way delay: 20.302 ms

Loss rate: 0.03%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: Tue, 04 Jul 2017 21:44:48 +0000

End at: Tue, 04 Jul 2017 21:45:18 +0000

Local clock offset: 0.0 ms

Remote clock offset: -1.646 ms

# Below is generated by plot.py at Wed, 05 Jul 2017 04:51:32 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 201.54 Mbit/s

95th percentile per-packet one-way delay: 20.602 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 114.49 Mbit/s

95th percentile per-packet one-way delay: 20.601 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 54.08 Mbit/s

95th percentile per-packet one-way delay: 20.747 ms

Loss rate: 0.10%

-- Flow 3:

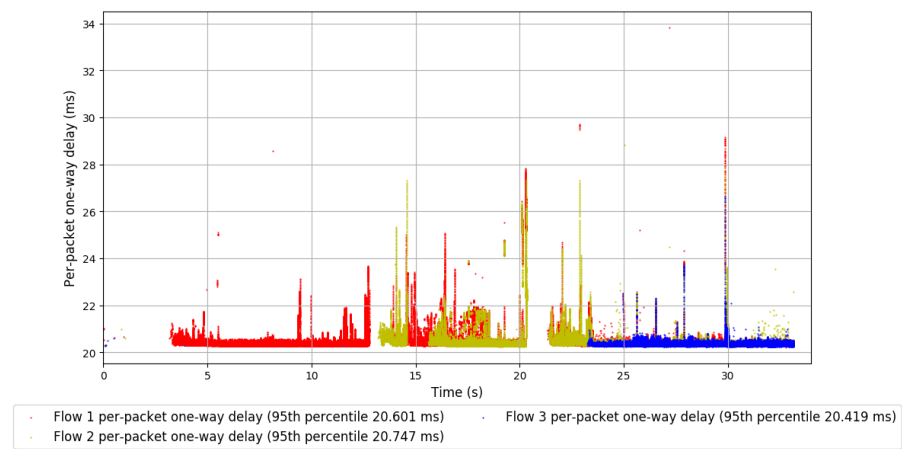
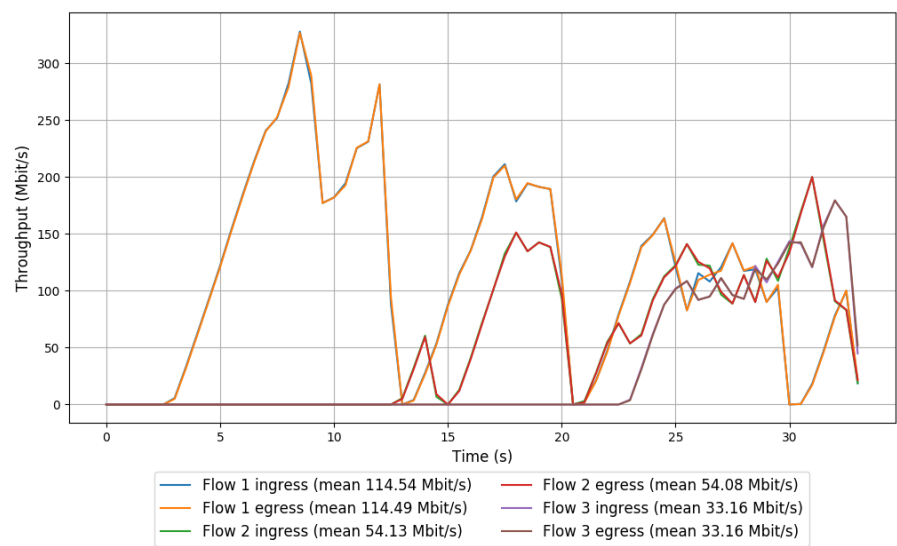
Average throughput: 33.16 Mbit/s

95th percentile per-packet one-way delay: 20.419 ms

Loss rate: 0.00%



Run 10: Report of LEDBAT — Data Link



Run 1: Statistics of PCC

Start at: Tue, 04 Jul 2017 18:41:20 +0000

End at: Tue, 04 Jul 2017 18:41:50 +0000

Local clock offset: 0.577 ms

Remote clock offset: -1.024 ms

# Below is generated by plot.py at Wed, 05 Jul 2017 04:52:02 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 391.45 Mbit/s

95th percentile per-packet one-way delay: 21.355 ms

Loss rate: 0.29%

-- Flow 1:

Average throughput: 313.50 Mbit/s

95th percentile per-packet one-way delay: 21.430 ms

Loss rate: 0.36%

-- Flow 2:

Average throughput: 45.31 Mbit/s

95th percentile per-packet one-way delay: 20.435 ms

Loss rate: 0.00%

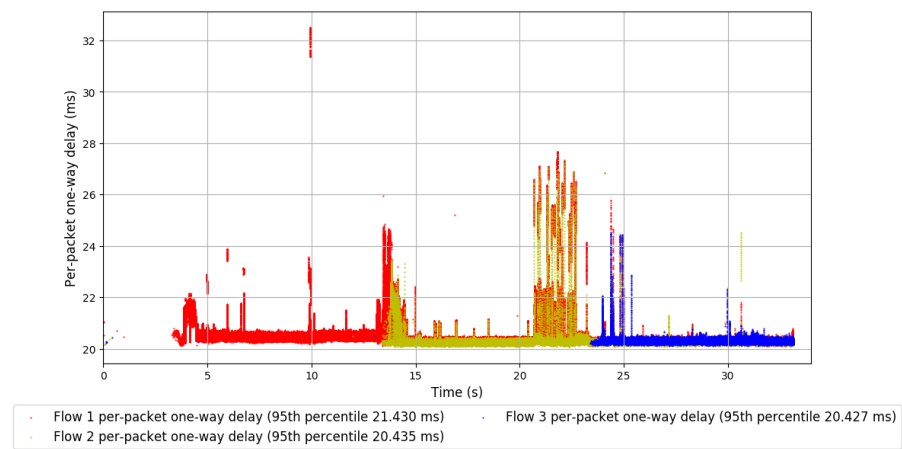
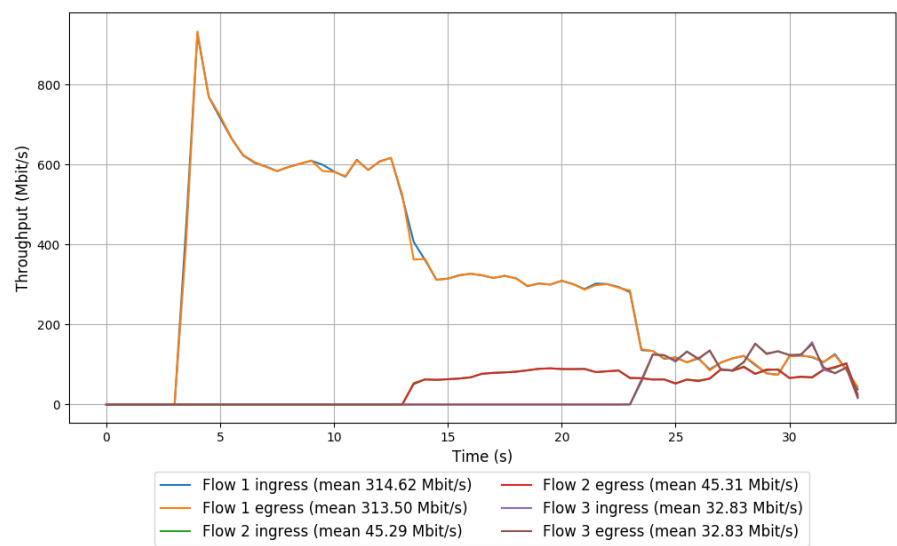
-- Flow 3:

Average throughput: 32.83 Mbit/s

95th percentile per-packet one-way delay: 20.427 ms

Loss rate: 0.00%

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: Tue, 04 Jul 2017 19:02:21 +0000

End at: Tue, 04 Jul 2017 19:02:51 +0000

Local clock offset: 0.273 ms

Remote clock offset: -0.888 ms

# Below is generated by plot.py at Wed, 05 Jul 2017 04:52:39 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 485.00 Mbit/s

95th percentile per-packet one-way delay: 20.966 ms

Loss rate: 0.49%

-- Flow 1:

Average throughput: 316.16 Mbit/s

95th percentile per-packet one-way delay: 20.966 ms

Loss rate: 0.37%

-- Flow 2:

Average throughput: 132.24 Mbit/s

95th percentile per-packet one-way delay: 21.126 ms

Loss rate: 0.90%

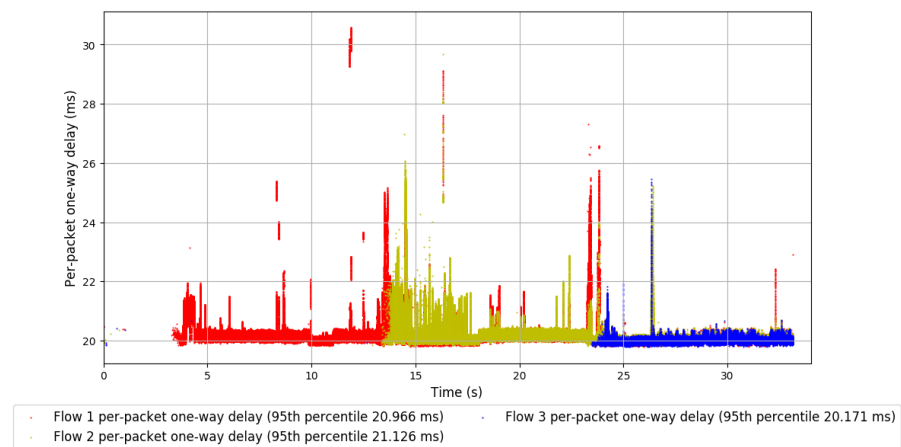
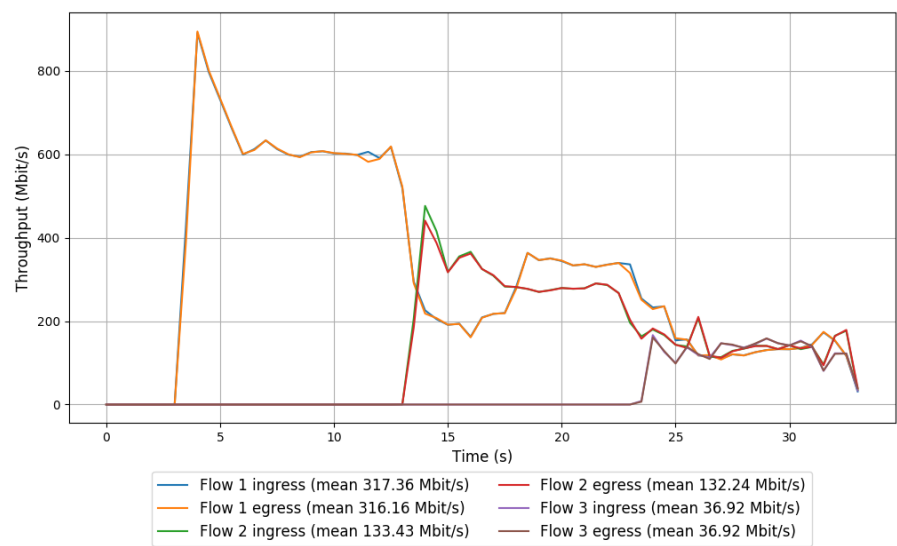
-- Flow 3:

Average throughput: 36.92 Mbit/s

95th percentile per-packet one-way delay: 20.171 ms

Loss rate: 0.00%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: Tue, 04 Jul 2017 19:23:15 +0000

End at: Tue, 04 Jul 2017 19:23:45 +0000

Local clock offset: 0.221 ms

Remote clock offset: -1.229 ms

# Below is generated by plot.py at Wed, 05 Jul 2017 04:53:10 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 458.87 Mbit/s

95th percentile per-packet one-way delay: 21.211 ms

Loss rate: 1.22%

-- Flow 1:

Average throughput: 341.96 Mbit/s

95th percentile per-packet one-way delay: 21.377 ms

Loss rate: 1.59%

-- Flow 2:

Average throughput: 74.29 Mbit/s

95th percentile per-packet one-way delay: 20.728 ms

Loss rate: 0.14%

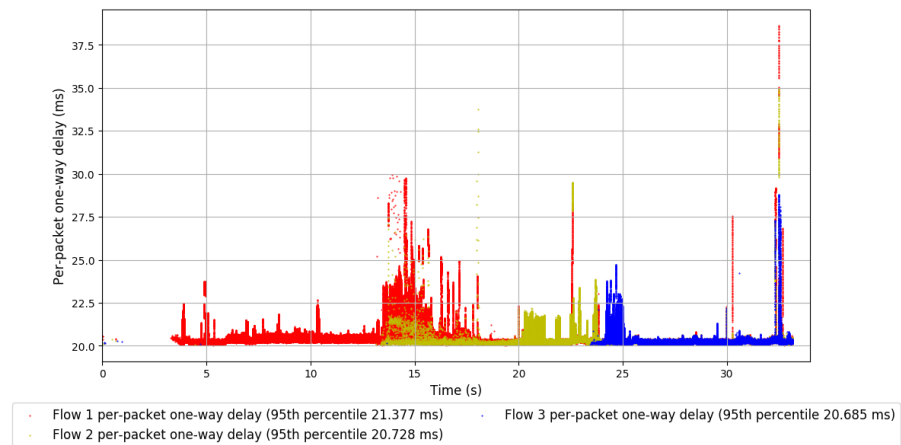
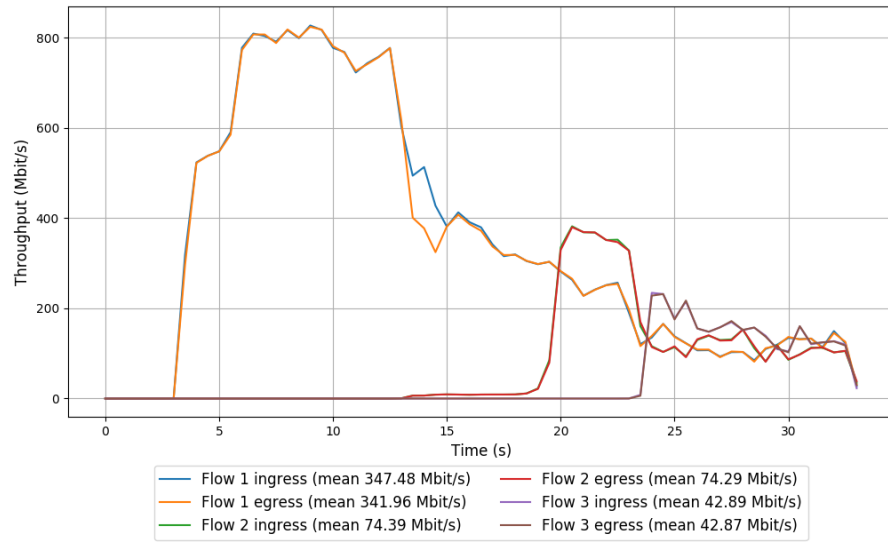
-- Flow 3:

Average throughput: 42.87 Mbit/s

95th percentile per-packet one-way delay: 20.685 ms

Loss rate: 0.05%

### Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: Tue, 04 Jul 2017 19:44:05 +0000

End at: Tue, 04 Jul 2017 19:44:35 +0000

Local clock offset: 0.029 ms

Remote clock offset: -1.36 ms

# Below is generated by plot.py at Wed, 05 Jul 2017 04:53:52 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 526.84 Mbit/s

95th percentile per-packet one-way delay: 21.447 ms

Loss rate: 0.35%

-- Flow 1:

Average throughput: 353.83 Mbit/s

95th percentile per-packet one-way delay: 21.458 ms

Loss rate: 0.43%

-- Flow 2:

Average throughput: 130.06 Mbit/s

95th percentile per-packet one-way delay: 21.138 ms

Loss rate: 0.02%

-- Flow 3:

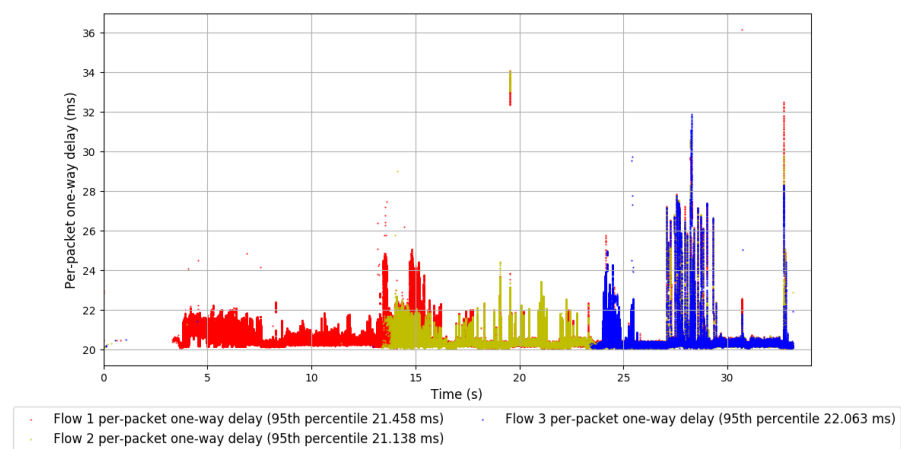
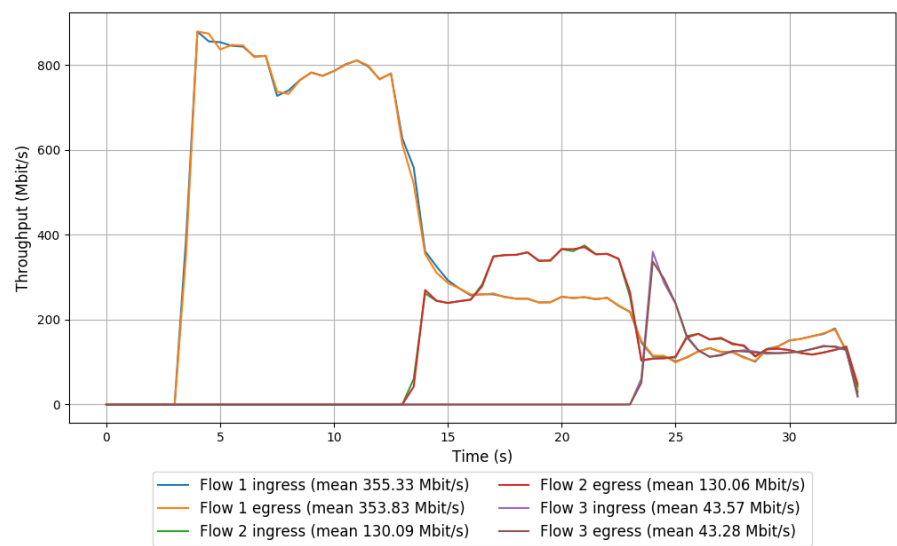
Average throughput: 43.28 Mbit/s

95th percentile per-packet one-way delay: 22.063 ms

Loss rate: 0.66%



Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: Tue, 04 Jul 2017 20:04:46 +0000

End at: Tue, 04 Jul 2017 20:05:16 +0000

Local clock offset: -0.003 ms

Remote clock offset: -0.861 ms

# Below is generated by plot.py at Wed, 05 Jul 2017 04:54:21 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 463.94 Mbit/s

95th percentile per-packet one-way delay: 21.250 ms

Loss rate: 0.25%

-- Flow 1:

Average throughput: 282.57 Mbit/s

95th percentile per-packet one-way delay: 21.065 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 125.70 Mbit/s

95th percentile per-packet one-way delay: 21.806 ms

Loss rate: 0.77%

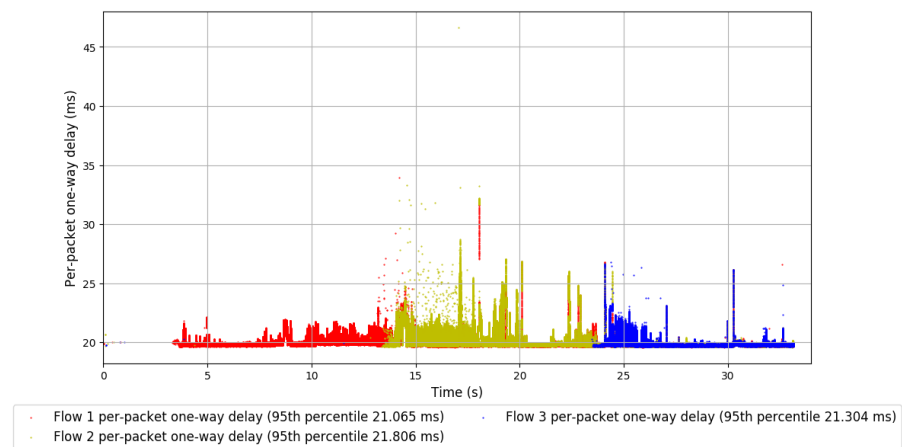
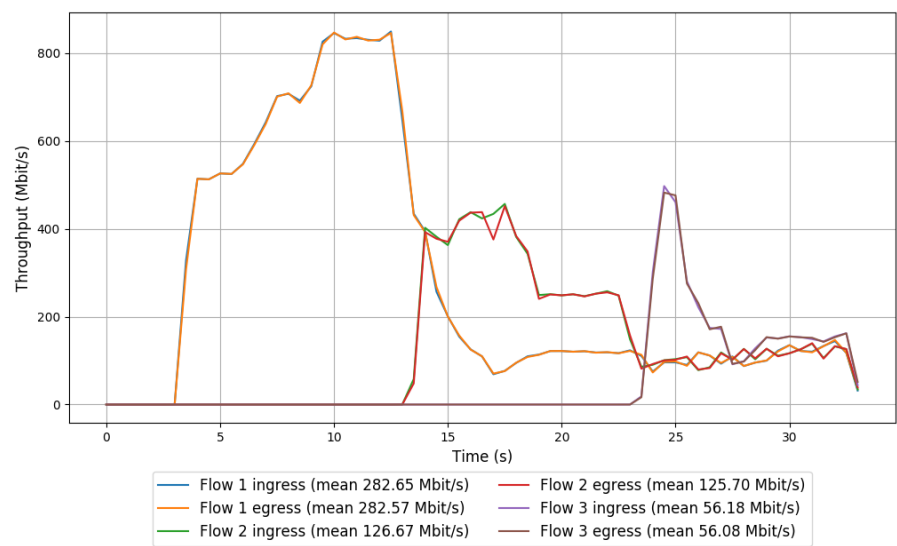
-- Flow 3:

Average throughput: 56.08 Mbit/s

95th percentile per-packet one-way delay: 21.304 ms

Loss rate: 0.18%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: Tue, 04 Jul 2017 20:25:45 +0000

End at: Tue, 04 Jul 2017 20:26:15 +0000

Local clock offset: 0.058 ms

Remote clock offset: -0.999 ms

# Below is generated by plot.py at Wed, 05 Jul 2017 04:54:56 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 442.46 Mbit/s

95th percentile per-packet one-way delay: 20.730 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 318.91 Mbit/s

95th percentile per-packet one-way delay: 20.825 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 90.00 Mbit/s

95th percentile per-packet one-way delay: 20.002 ms

Loss rate: 0.01%

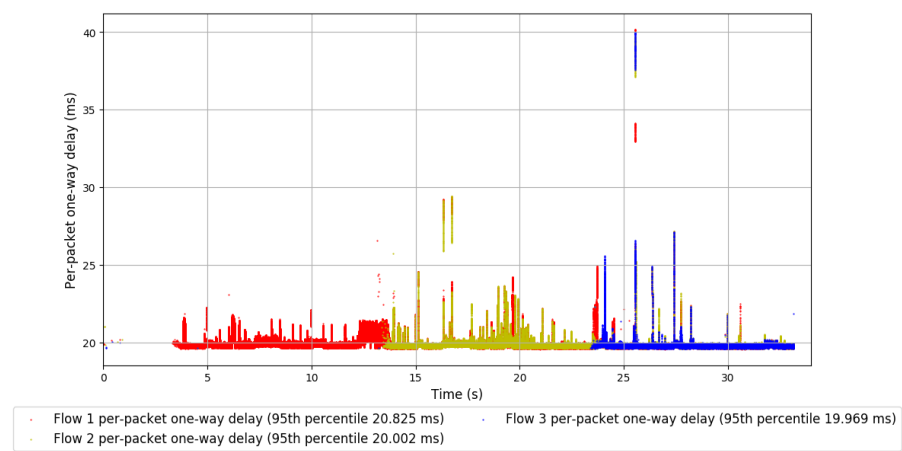
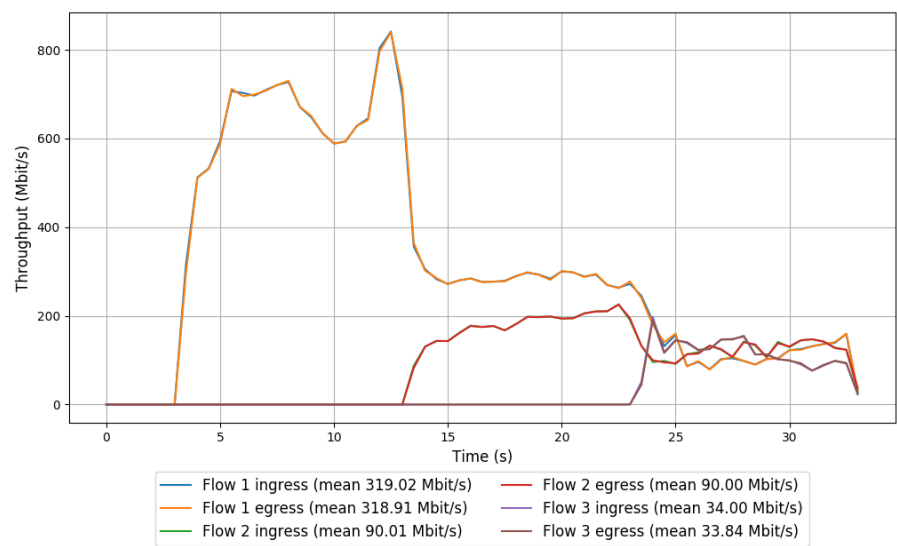
-- Flow 3:

Average throughput: 33.84 Mbit/s

95th percentile per-packet one-way delay: 19.969 ms

Loss rate: 0.46%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: Tue, 04 Jul 2017 20:46:38 +0000

End at: Tue, 04 Jul 2017 20:47:08 +0000

Local clock offset: 0.012 ms

Remote clock offset: -0.892 ms

# Below is generated by plot.py at Wed, 05 Jul 2017 04:55:30 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 474.71 Mbit/s

95th percentile per-packet one-way delay: 20.621 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 327.36 Mbit/s

95th percentile per-packet one-way delay: 20.700 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 112.86 Mbit/s

95th percentile per-packet one-way delay: 20.136 ms

Loss rate: 0.04%

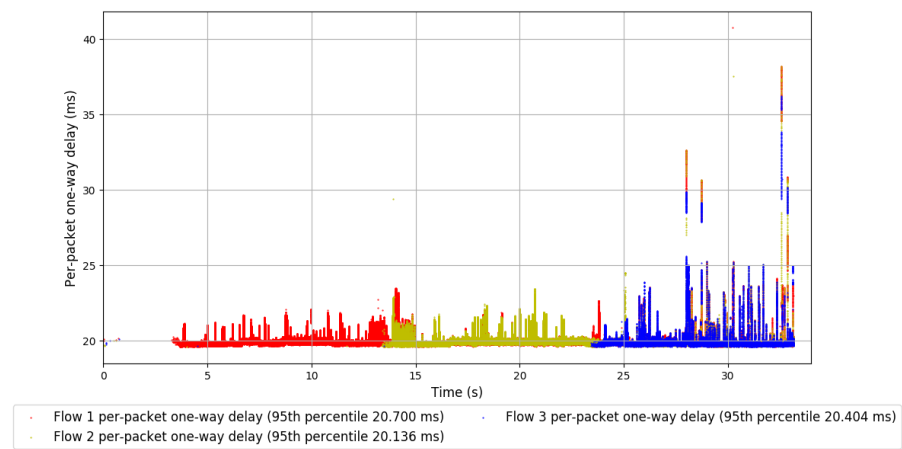
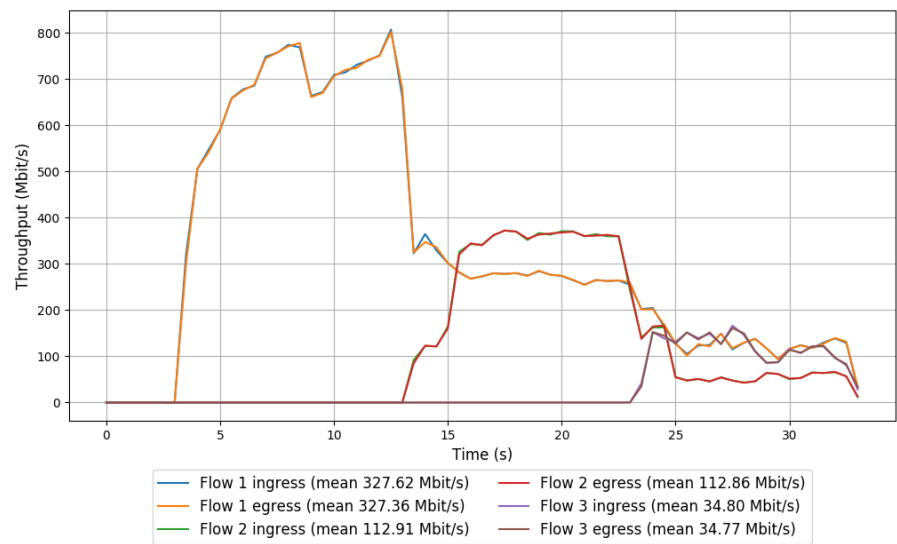
-- Flow 3:

Average throughput: 34.77 Mbit/s

95th percentile per-packet one-way delay: 20.404 ms

Loss rate: 0.09%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: Tue, 04 Jul 2017 21:07:14 +0000

End at: Tue, 04 Jul 2017 21:07:44 +0000

Local clock offset: -0.013 ms

Remote clock offset: -1.047 ms

# Below is generated by plot.py at Wed, 05 Jul 2017 04:56:04 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 461.68 Mbit/s

95th percentile per-packet one-way delay: 21.032 ms

Loss rate: 0.33%

-- Flow 1:

Average throughput: 330.57 Mbit/s

95th percentile per-packet one-way delay: 21.036 ms

Loss rate: 0.40%

-- Flow 2:

Average throughput: 92.77 Mbit/s

95th percentile per-packet one-way delay: 21.023 ms

Loss rate: 0.18%

-- Flow 3:

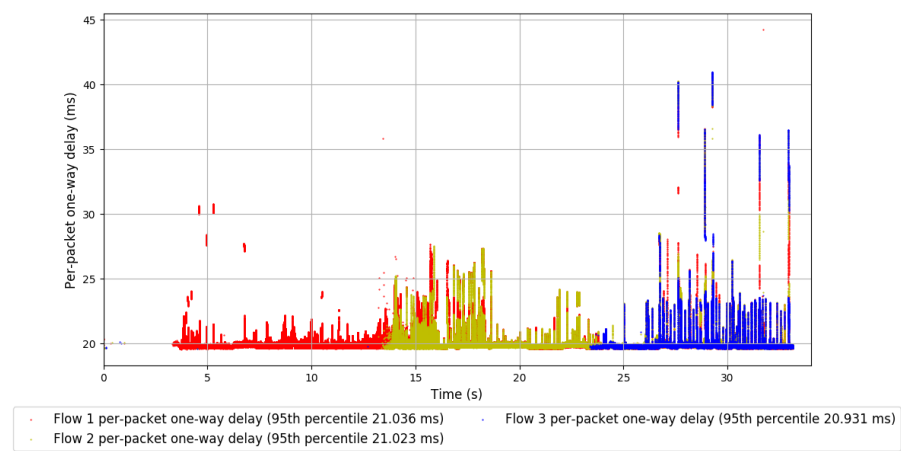
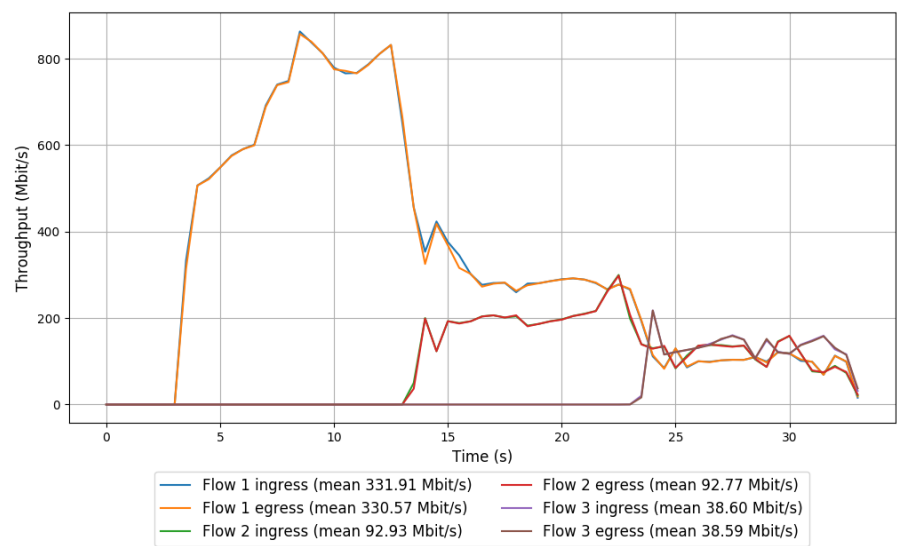
Average throughput: 38.59 Mbit/s

95th percentile per-packet one-way delay: 20.931 ms

Loss rate: 0.01%



Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: Tue, 04 Jul 2017 21:27:42 +0000

End at: Tue, 04 Jul 2017 21:28:12 +0000

Local clock offset: -0.058 ms

Remote clock offset: -1.278 ms

# Below is generated by plot.py at Wed, 05 Jul 2017 04:56:44 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 524.37 Mbit/s

95th percentile per-packet one-way delay: 21.313 ms

Loss rate: 0.34%

-- Flow 1:

Average throughput: 352.25 Mbit/s

95th percentile per-packet one-way delay: 21.449 ms

Loss rate: 0.44%

-- Flow 2:

Average throughput: 139.49 Mbit/s

95th percentile per-packet one-way delay: 20.901 ms

Loss rate: 0.06%

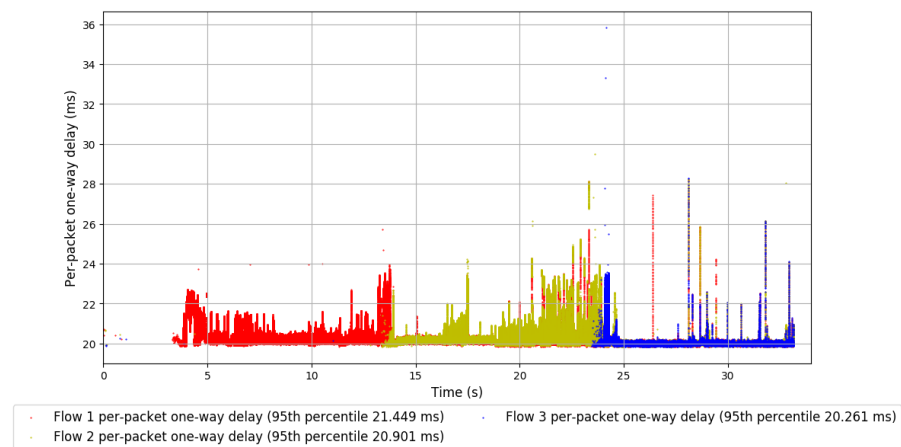
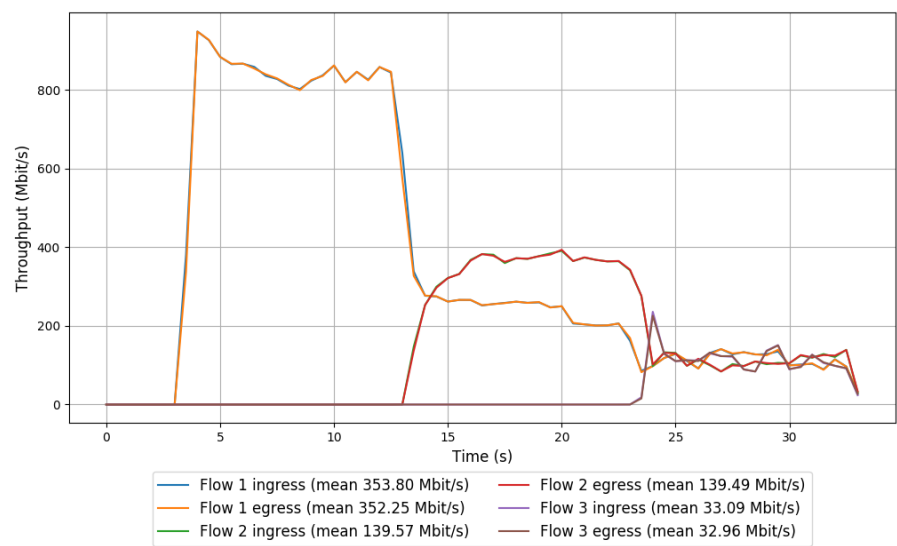
-- Flow 3:

Average throughput: 32.96 Mbit/s

95th percentile per-packet one-way delay: 20.261 ms

Loss rate: 0.40%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: Tue, 04 Jul 2017 21:48:45 +0000

End at: Tue, 04 Jul 2017 21:49:15 +0000

Local clock offset: 0.005 ms

Remote clock offset: -1.566 ms

# Below is generated by plot.py at Wed, 05 Jul 2017 04:57:19 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 449.91 Mbit/s

95th percentile per-packet one-way delay: 21.885 ms

Loss rate: 0.34%

-- Flow 1:

Average throughput: 289.69 Mbit/s

95th percentile per-packet one-way delay: 22.001 ms

Loss rate: 0.49%

-- Flow 2:

Average throughput: 121.91 Mbit/s

95th percentile per-packet one-way delay: 21.137 ms

Loss rate: 0.06%

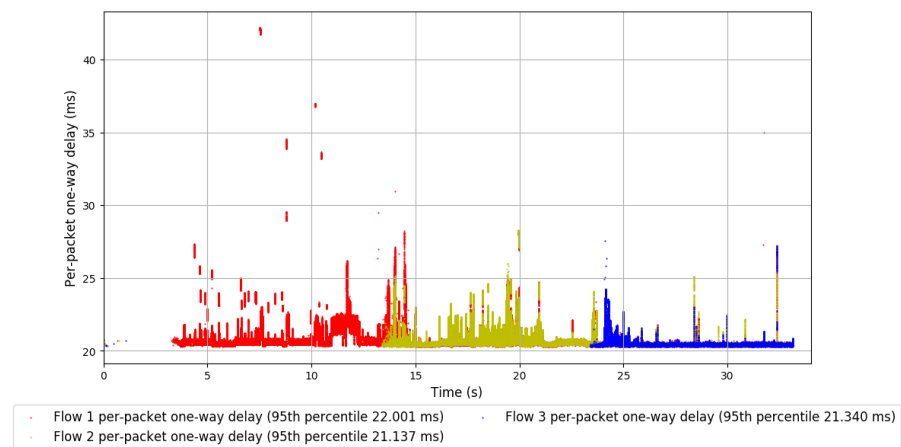
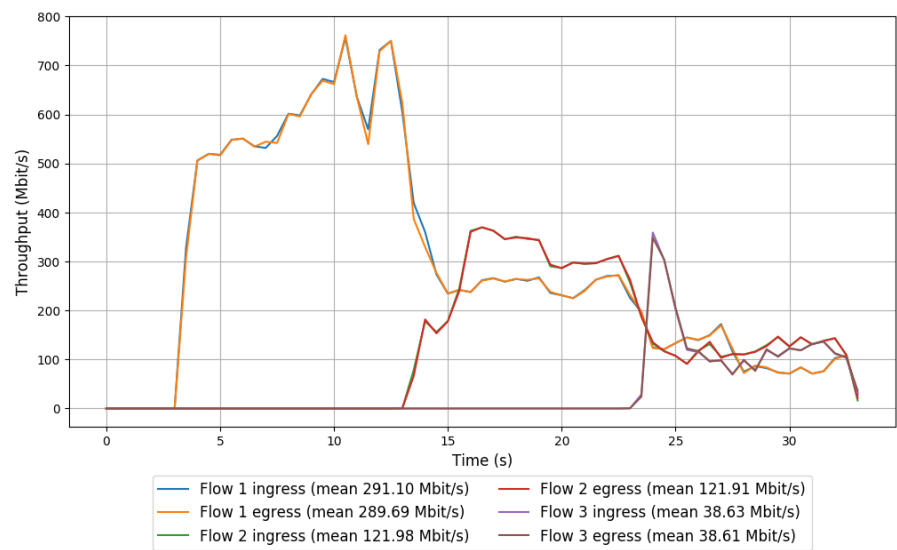
-- Flow 3:

Average throughput: 38.61 Mbit/s

95th percentile per-packet one-way delay: 21.340 ms

Loss rate: 0.11%

Run 10: Report of PCC — Data Link



Run 1: Statistics of QUIC Cubic

Start at: Tue, 04 Jul 2017 18:40:10 +0000

End at: Tue, 04 Jul 2017 18:40:40 +0000

Local clock offset: 0.466 ms

Remote clock offset: -0.985 ms

# Below is generated by plot.py at Wed, 05 Jul 2017 04:57:19 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 23.392 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 20.587 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 23.114 ms

Loss rate: 0.00%

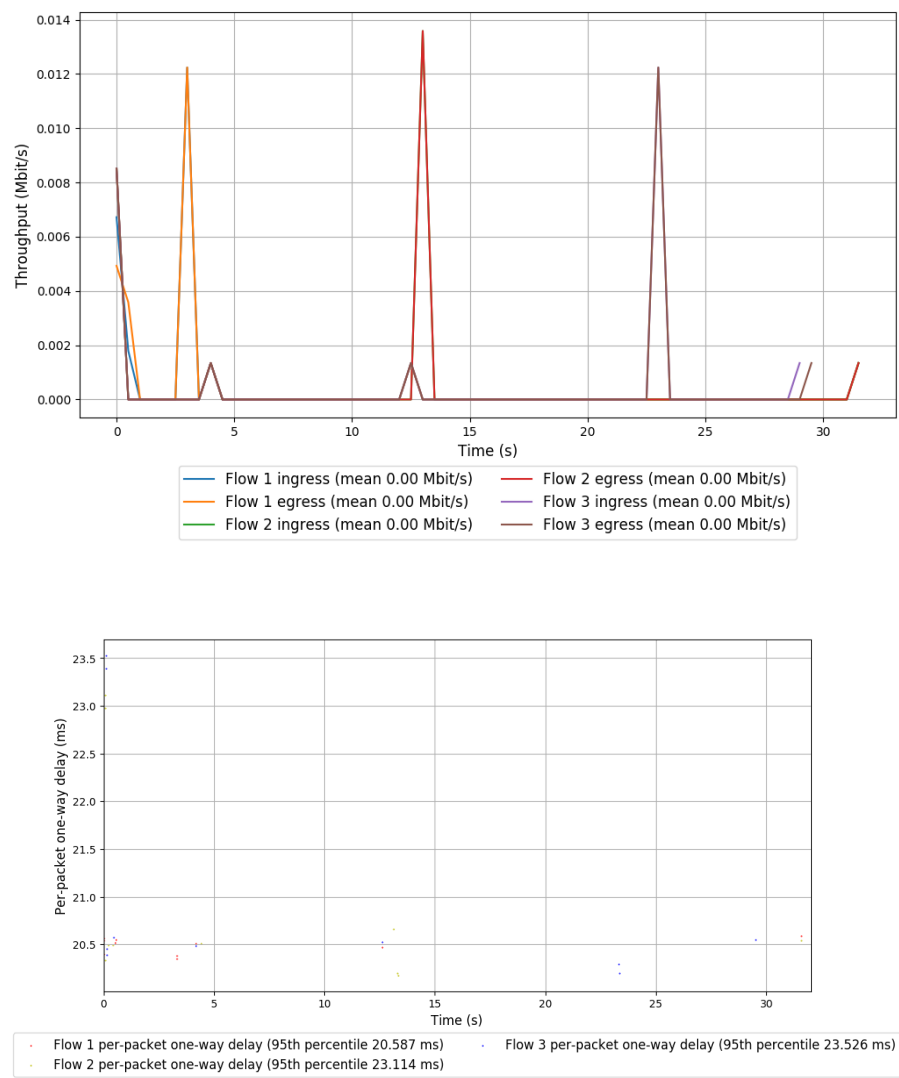
-- Flow 3:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 23.526 ms

Loss rate: 0.00%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: Tue, 04 Jul 2017 19:01:11 +0000

End at: Tue, 04 Jul 2017 19:01:41 +0000

Local clock offset: 0.316 ms

Remote clock offset: -0.857 ms

# Below is generated by plot.py at Wed, 05 Jul 2017 04:57:19 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 23.125 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 20.353 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 23.261 ms

Loss rate: 0.00%

-- Flow 3:

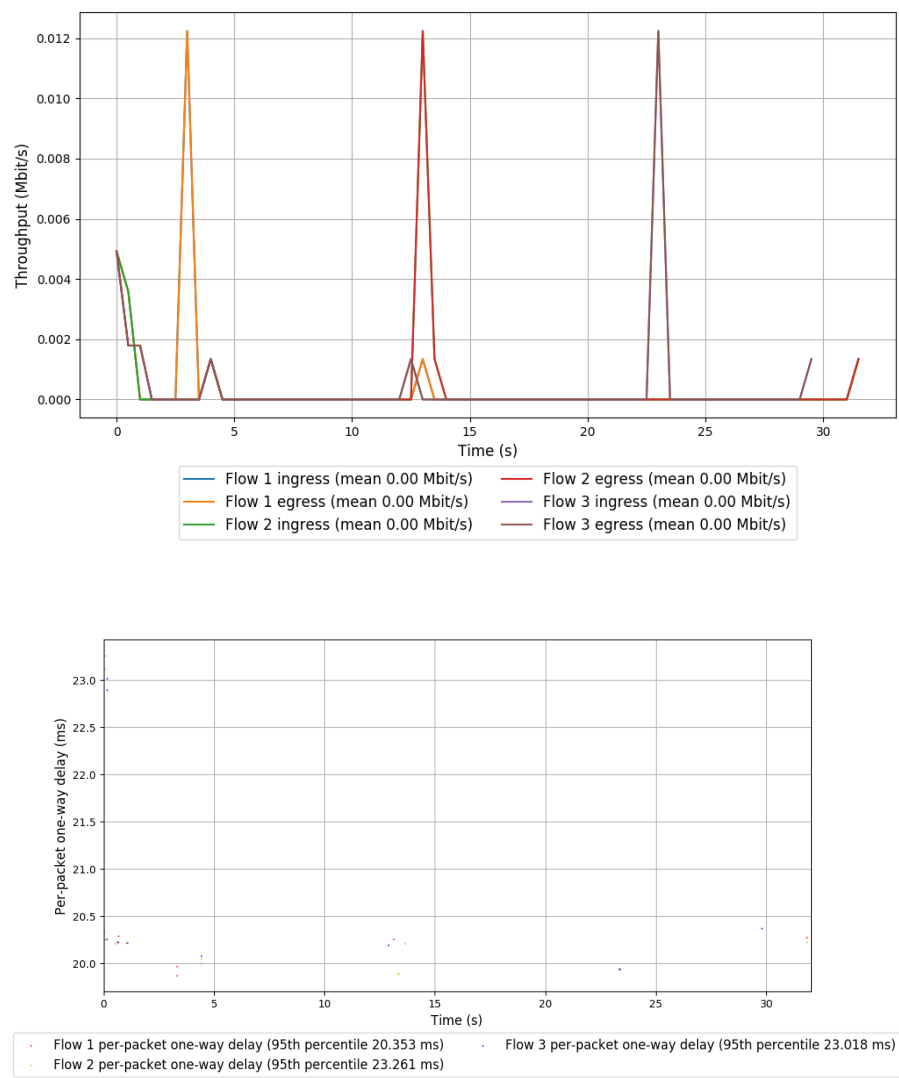
Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 23.018 ms

Loss rate: 0.00%



Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: Tue, 04 Jul 2017 19:22:05 +0000

End at: Tue, 04 Jul 2017 19:22:35 +0000

Local clock offset: 0.145 ms

Remote clock offset: -1.258 ms

# Below is generated by plot.py at Wed, 05 Jul 2017 04:57:19 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 23.395 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 20.680 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 20.901 ms

Loss rate: 0.00%

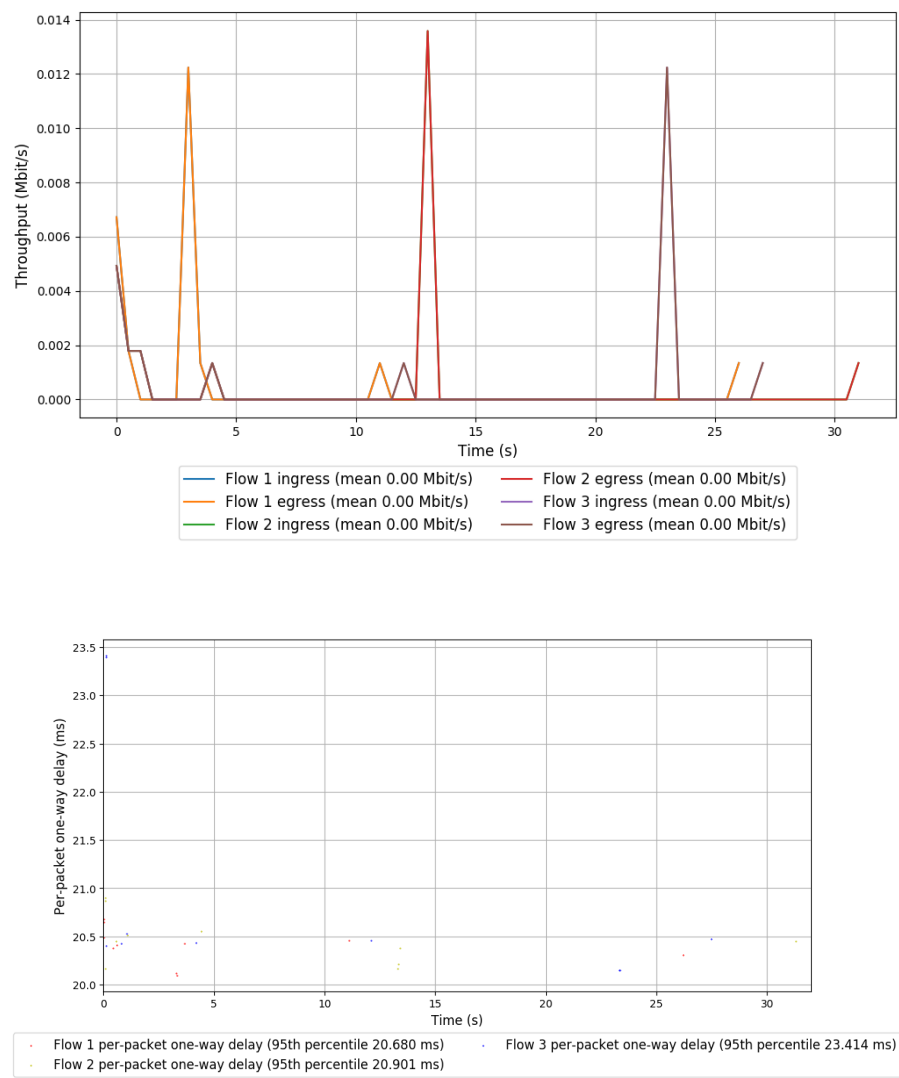
-- Flow 3:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 23.414 ms

Loss rate: 0.00%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: Tue, 04 Jul 2017 19:42:55 +0000

End at: Tue, 04 Jul 2017 19:43:25 +0000

Local clock offset: 0.059 ms

Remote clock offset: -1.36 ms

# Below is generated by plot.py at Wed, 05 Jul 2017 04:57:19 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 23.645 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 20.500 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 23.668 ms

Loss rate: 0.00%

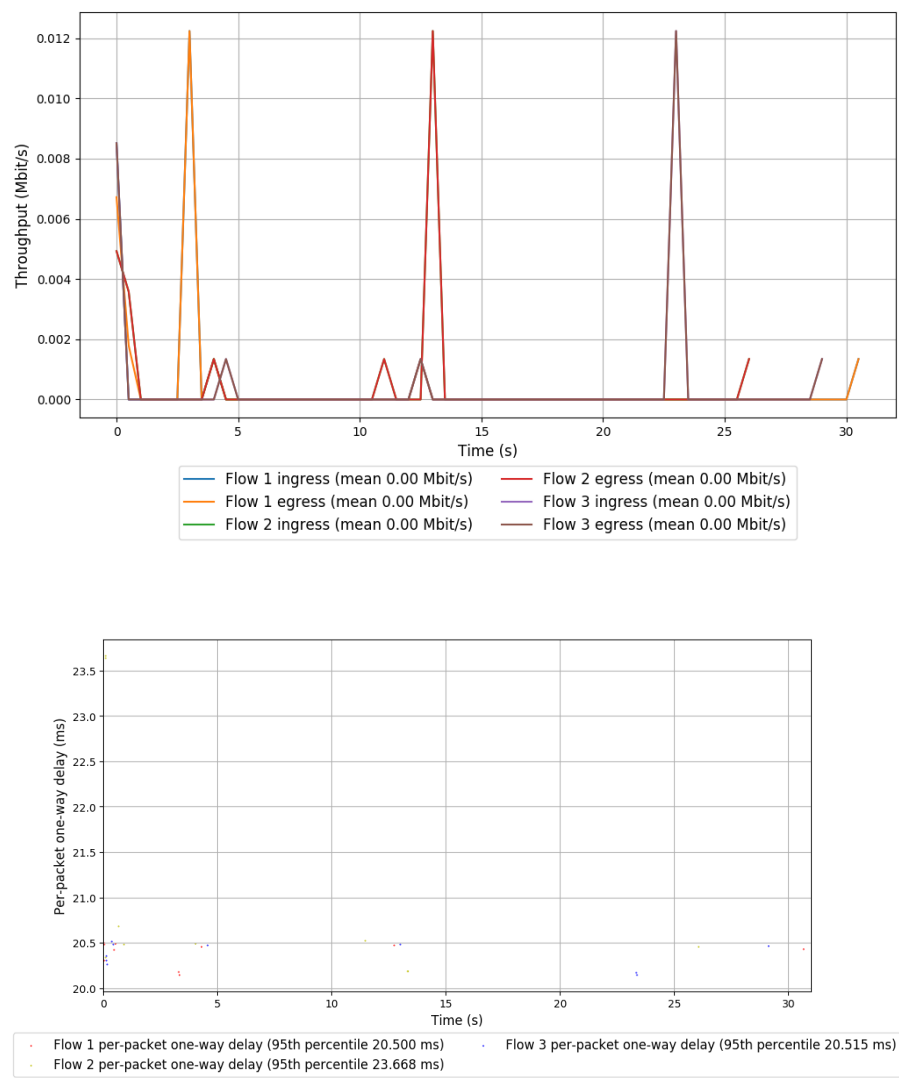
-- Flow 3:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 20.515 ms

Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: Tue, 04 Jul 2017 20:03:35 +0000

End at: Tue, 04 Jul 2017 20:04:05 +0000

Local clock offset: 0.068 ms

Remote clock offset: -0.981 ms

# Below is generated by plot.py at Wed, 05 Jul 2017 04:57:19 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 22.985 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 20.175 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 23.008 ms

Loss rate: 0.00%

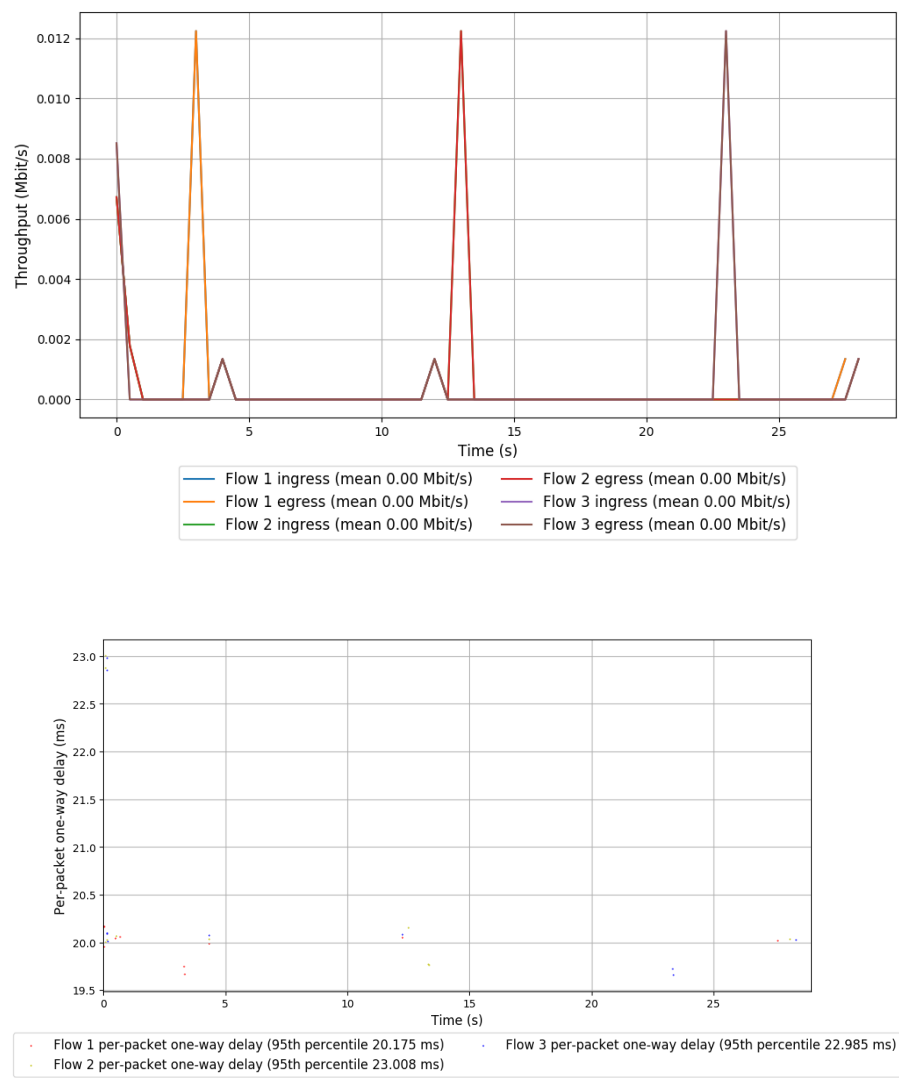
-- Flow 3:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 22.985 ms

Loss rate: 0.00%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: Tue, 04 Jul 2017 20:24:35 +0000

End at: Tue, 04 Jul 2017 20:25:05 +0000

Local clock offset: 0.034 ms

Remote clock offset: -0.936 ms

# Below is generated by plot.py at Wed, 05 Jul 2017 04:57:19 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 22.680 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 20.343 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 20.495 ms

Loss rate: 0.00%

-- Flow 3:

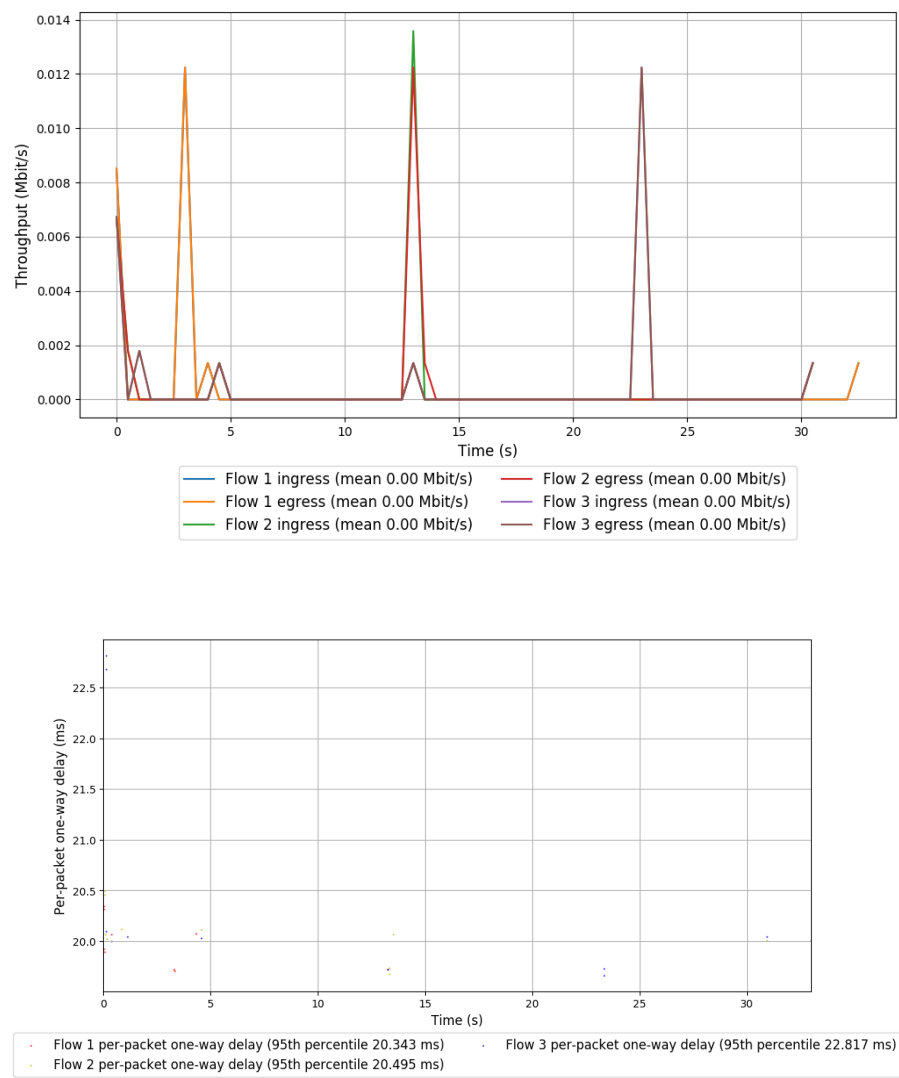
Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 22.817 ms

Loss rate: 0.00%



Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: Tue, 04 Jul 2017 20:45:28 +0000

End at: Tue, 04 Jul 2017 20:45:58 +0000

Local clock offset: -0.022 ms

Remote clock offset: -0.819 ms

# Below is generated by plot.py at Wed, 05 Jul 2017 04:57:19 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 22.617 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 20.412 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 20.467 ms

Loss rate: 0.00%

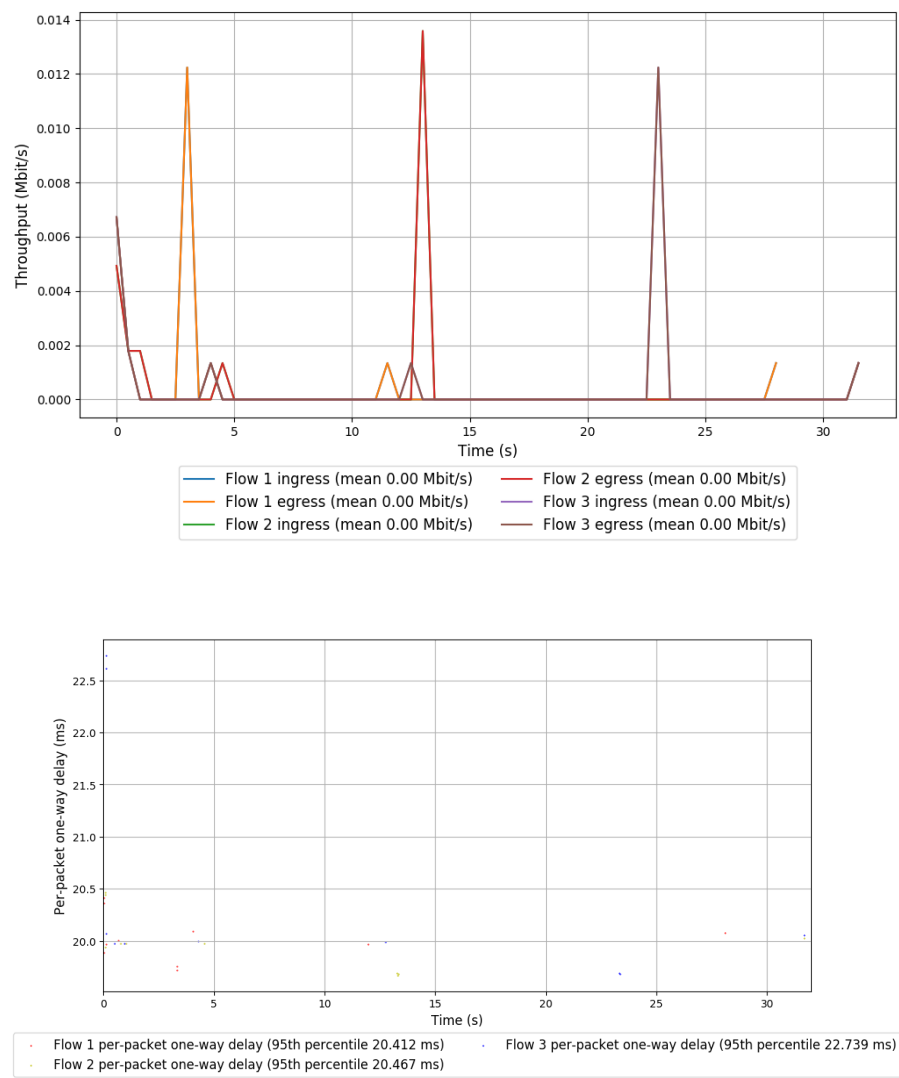
-- Flow 3:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 22.739 ms

Loss rate: 0.00%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: Tue, 04 Jul 2017 21:06:04 +0000

End at: Tue, 04 Jul 2017 21:06:34 +0000

Local clock offset: -0.098 ms

Remote clock offset: -1.007 ms

# Below is generated by plot.py at Wed, 05 Jul 2017 04:57:19 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 23.184 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 22.107 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 20.410 ms

Loss rate: 0.00%

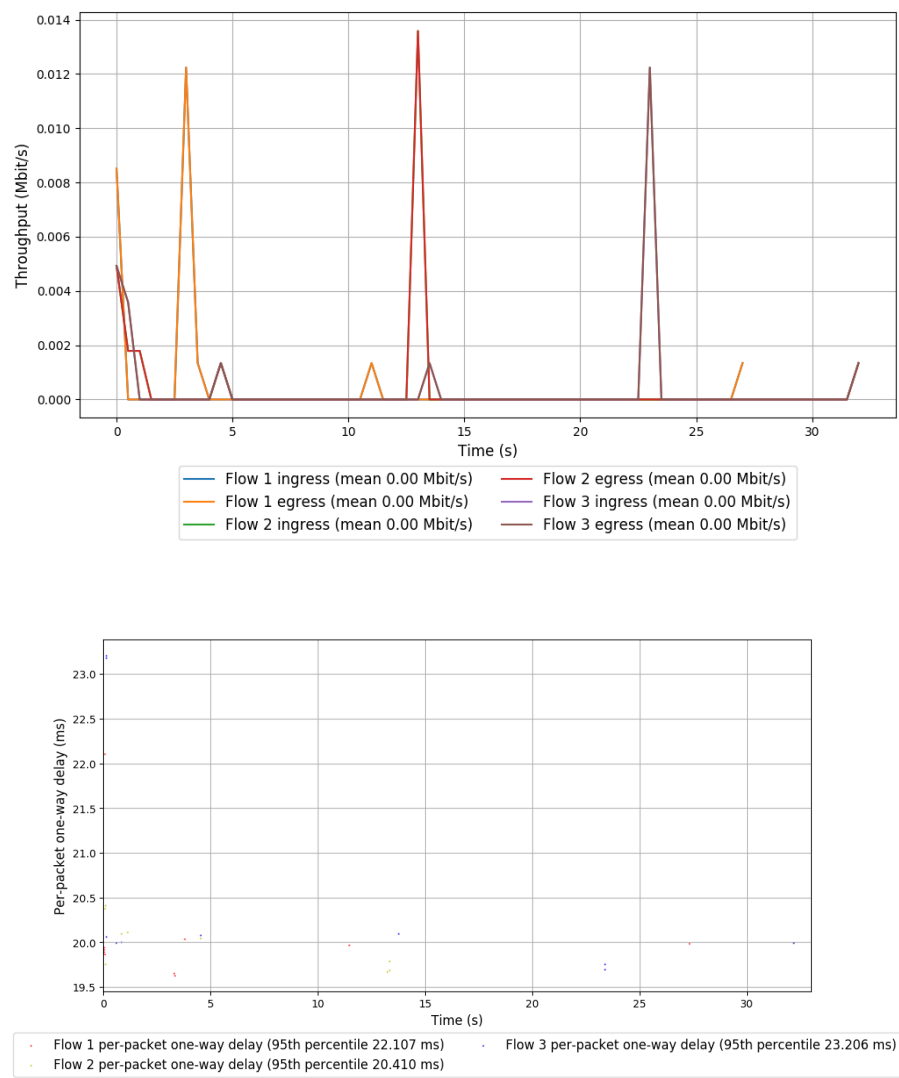
-- Flow 3:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 23.206 ms

Loss rate: 0.00%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: Tue, 04 Jul 2017 21:26:32 +0000

End at: Tue, 04 Jul 2017 21:27:02 +0000

Local clock offset: -0.166 ms

Remote clock offset: -1.228 ms

# Below is generated by plot.py at Wed, 05 Jul 2017 04:57:19 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 23.336 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 20.273 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 23.401 ms

Loss rate: 0.00%

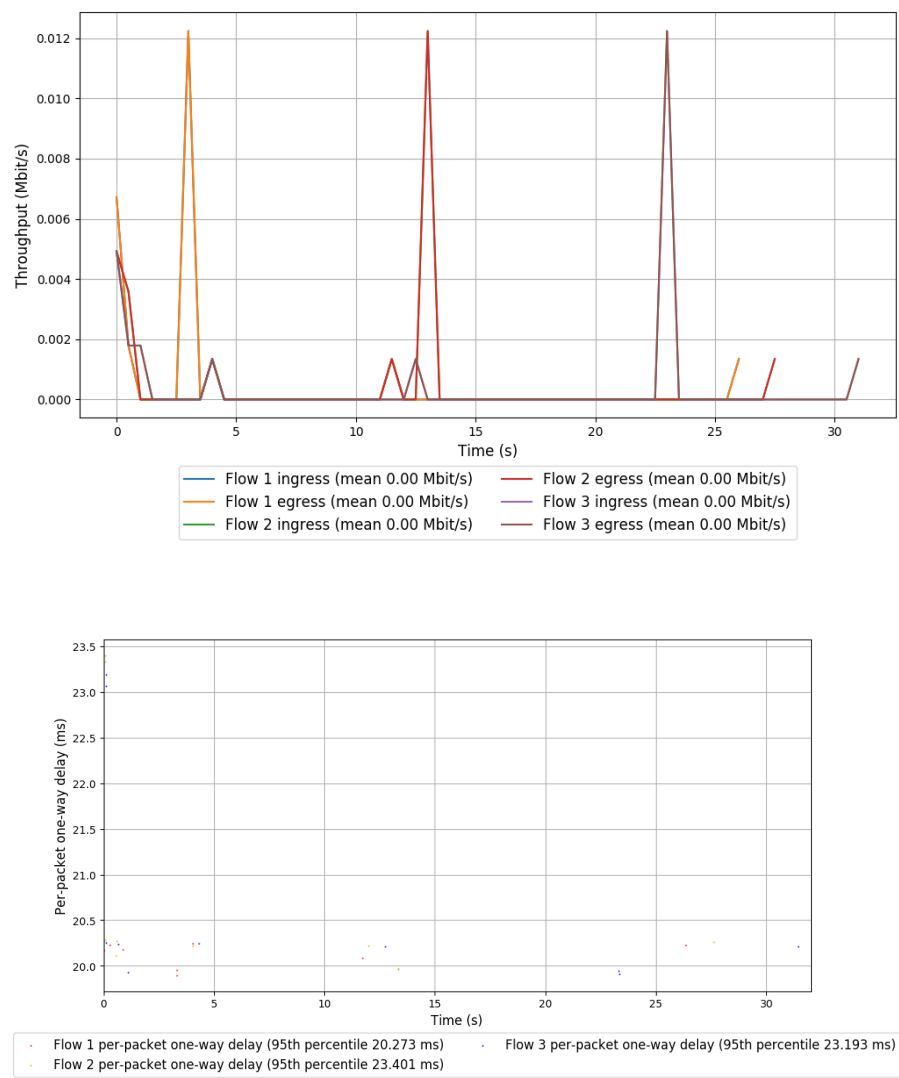
-- Flow 3:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 23.193 ms

Loss rate: 0.00%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: Tue, 04 Jul 2017 21:47:35 +0000

End at: Tue, 04 Jul 2017 21:48:05 +0000

Local clock offset: 0.023 ms

Remote clock offset: -1.631 ms

# Below is generated by plot.py at Wed, 05 Jul 2017 04:57:19 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 23.471 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 20.721 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 23.584 ms

Loss rate: 0.00%

-- Flow 3:

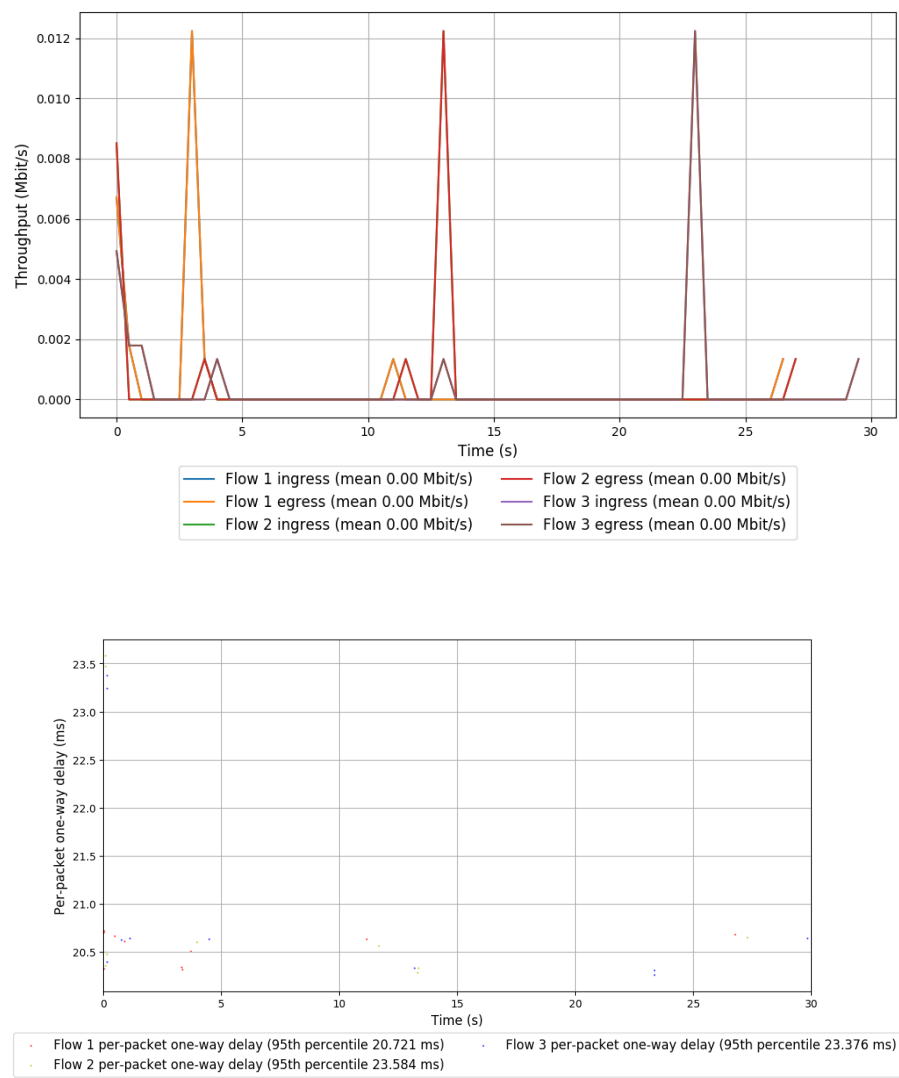
Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 23.376 ms

Loss rate: 0.00%



Run 10: Report of QUIC Cubic — Data Link



Run 1: Statistics of Saturator

Start at: Tue, 04 Jul 2017 18:52:40 +0000

End at: Tue, 04 Jul 2017 18:53:10 +0000

Local clock offset: 0.38 ms

Remote clock offset: -0.666 ms

# Below is generated by plot.py at Wed, 05 Jul 2017 04:57:30 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 213.42 Mbit/s

95th percentile per-packet one-way delay: 20.188 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 107.12 Mbit/s

95th percentile per-packet one-way delay: 20.203 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 71.12 Mbit/s

95th percentile per-packet one-way delay: 20.097 ms

Loss rate: 0.02%

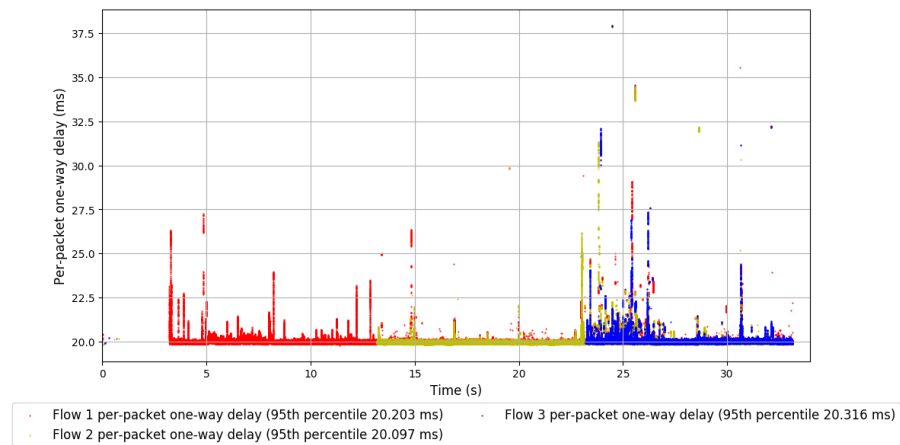
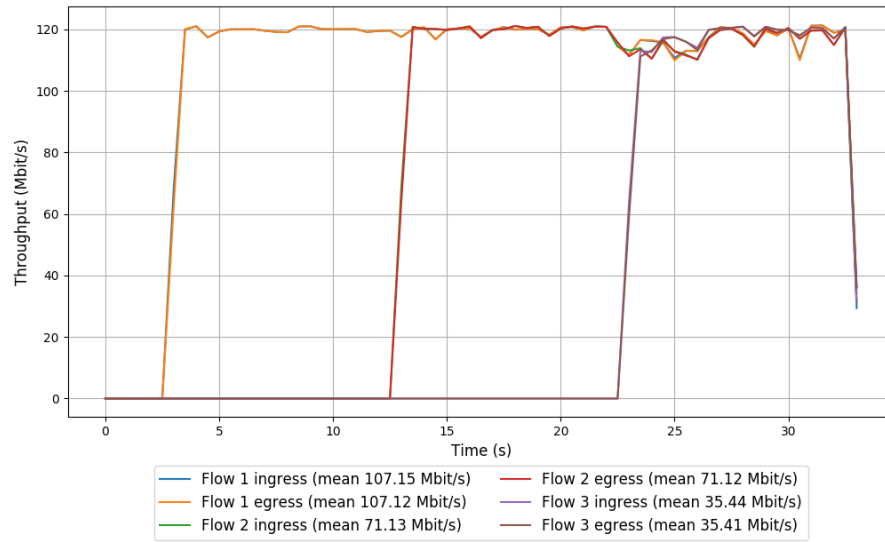
-- Flow 3:

Average throughput: 35.41 Mbit/s

95th percentile per-packet one-way delay: 20.316 ms

Loss rate: 0.11%

# Run 1: Report of Saturator — Data Link



Run 2: Statistics of Saturator

Start at: Tue, 04 Jul 2017 19:13:40 +0000

End at: Tue, 04 Jul 2017 19:14:10 +0000

Local clock offset: 0.228 ms

Remote clock offset: -1.043 ms

# Below is generated by plot.py at Wed, 05 Jul 2017 04:57:50 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 213.57 Mbit/s

95th percentile per-packet one-way delay: 20.303 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 107.37 Mbit/s

95th percentile per-packet one-way delay: 20.338 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 71.31 Mbit/s

95th percentile per-packet one-way delay: 20.254 ms

Loss rate: 0.02%

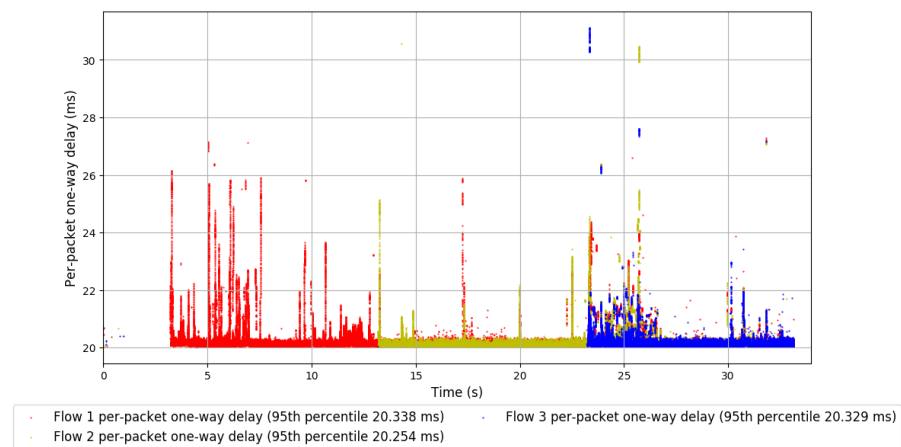
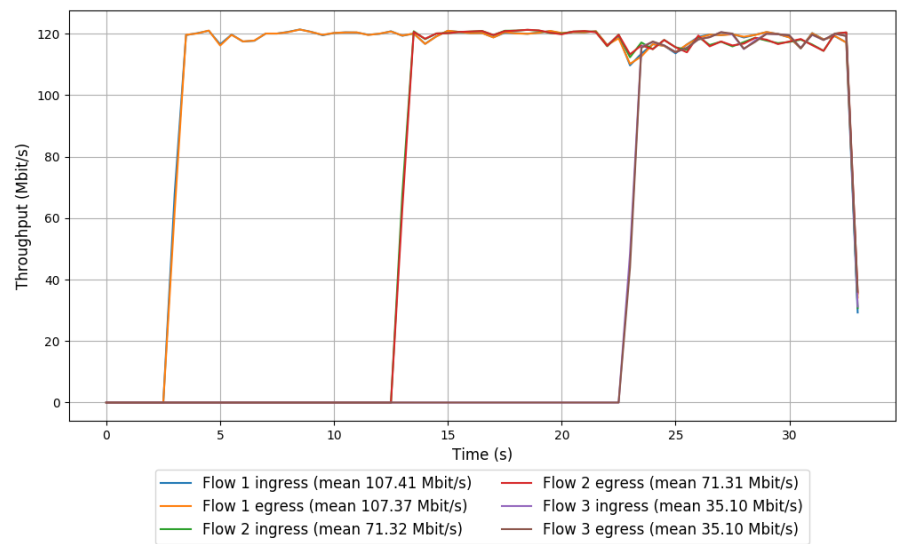
-- Flow 3:

Average throughput: 35.10 Mbit/s

95th percentile per-packet one-way delay: 20.329 ms

Loss rate: 0.00%

Run 2: Report of Saturator — Data Link



Run 3: Statistics of Saturator

Start at: Tue, 04 Jul 2017 19:34:22 +0000

End at: Tue, 04 Jul 2017 19:34:52 +0000

Local clock offset: 0.063 ms

Remote clock offset: -1.454 ms

# Below is generated by plot.py at Wed, 05 Jul 2017 04:58:02 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 212.54 Mbit/s

95th percentile per-packet one-way delay: 20.804 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 106.40 Mbit/s

95th percentile per-packet one-way delay: 20.958 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 71.21 Mbit/s

95th percentile per-packet one-way delay: 20.671 ms

Loss rate: 0.10%

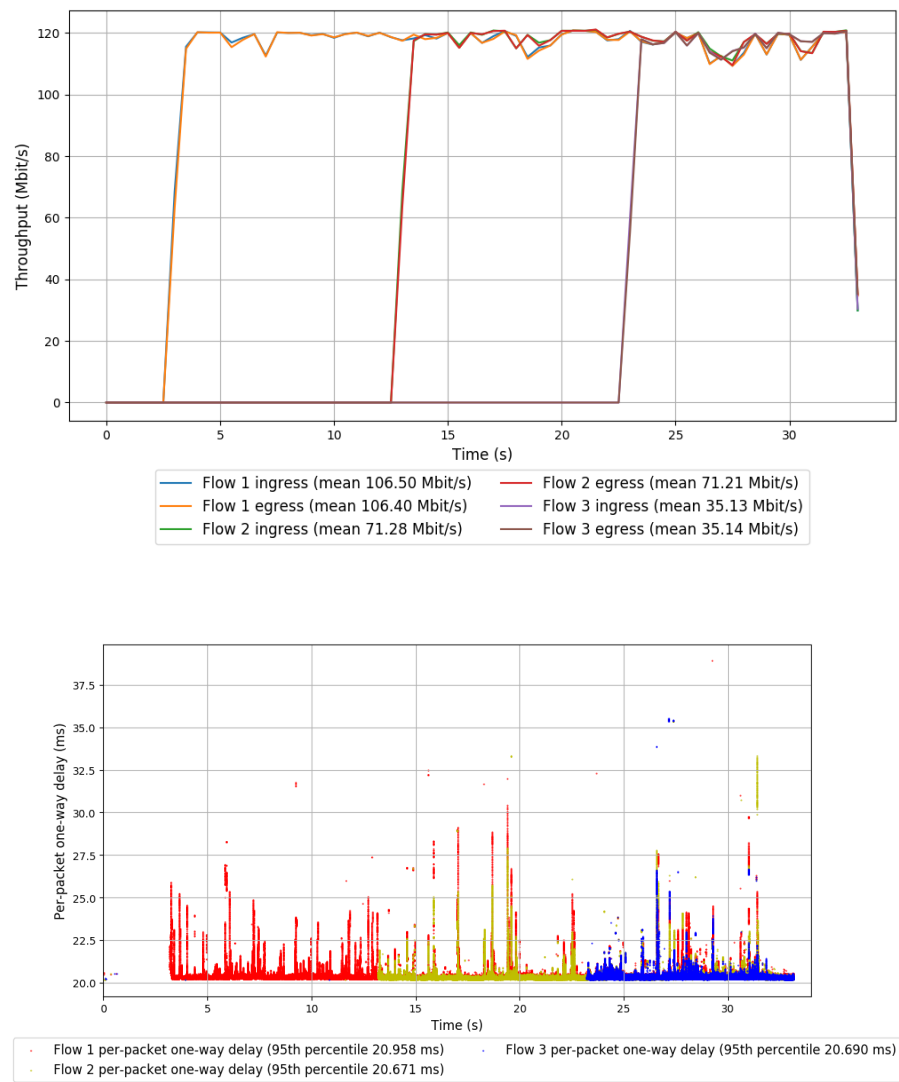
-- Flow 3:

Average throughput: 35.14 Mbit/s

95th percentile per-packet one-way delay: 20.690 ms

Loss rate: 0.02%

Run 3: Report of Saturator — Data Link



Run 4: Statistics of Saturator

Start at: Tue, 04 Jul 2017 19:55:21 +0000

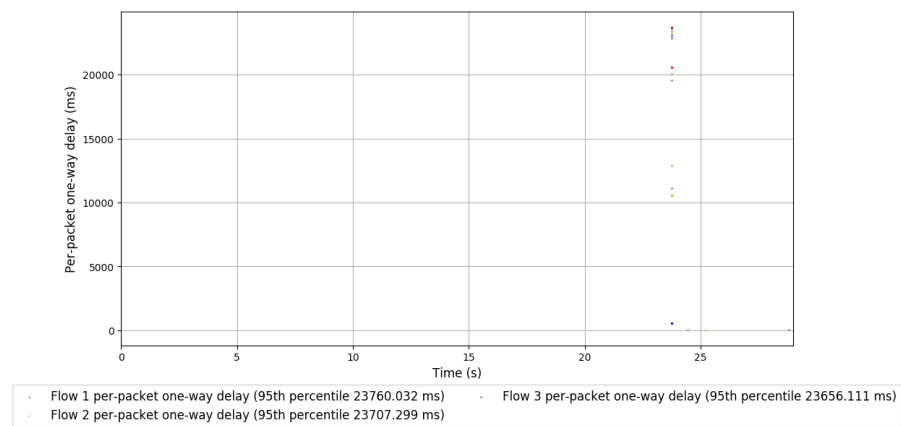
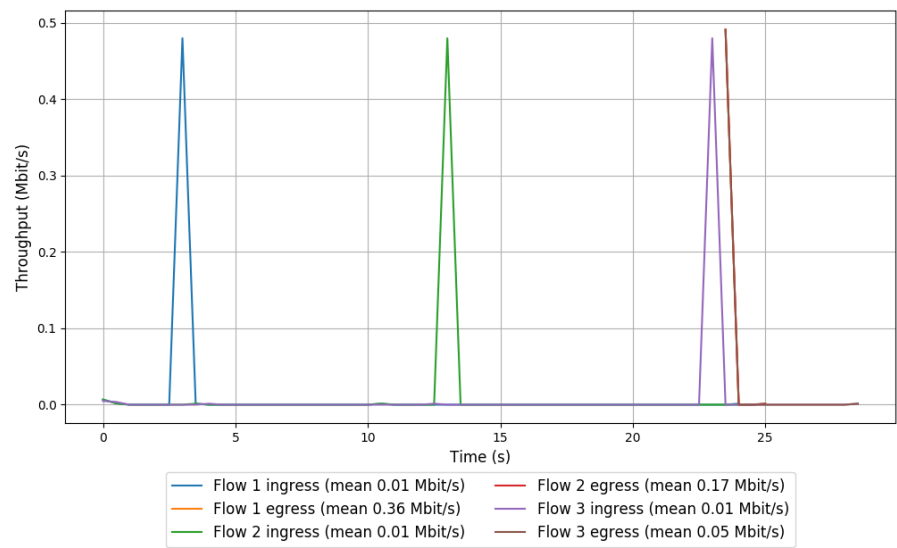
End at: Tue, 04 Jul 2017 19:55:51 +0000

Local clock offset: 0.017 ms

Remote clock offset: -1.181 ms



Run 4: Report of Saturator — Data Link



Run 5: Statistics of Saturator

Start at: Tue, 04 Jul 2017 20:16:03 +0000

End at: Tue, 04 Jul 2017 20:16:33 +0000

Local clock offset: -0.017 ms

Remote clock offset: -1.083 ms

# Below is generated by plot.py at Wed, 05 Jul 2017 04:58:22 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 215.00 Mbit/s

95th percentile per-packet one-way delay: 20.102 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 107.62 Mbit/s

95th percentile per-packet one-way delay: 20.155 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 71.64 Mbit/s

95th percentile per-packet one-way delay: 20.074 ms

Loss rate: 0.04%

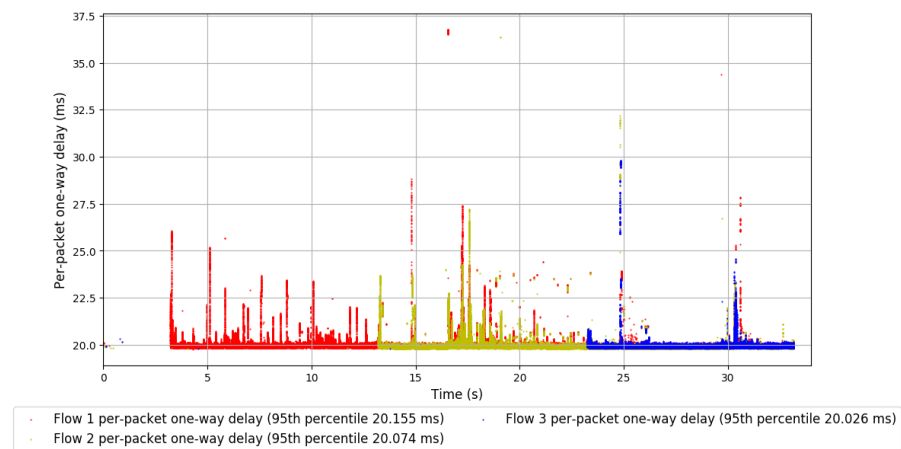
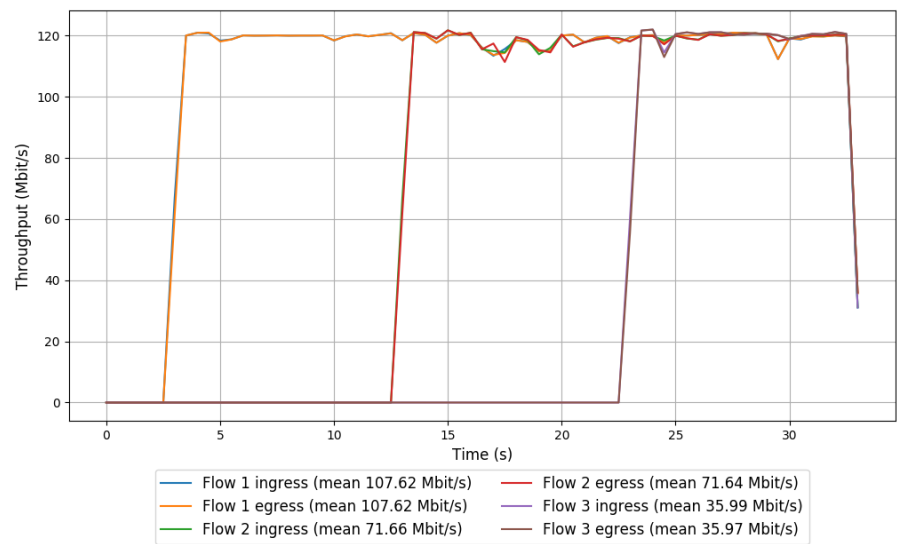
-- Flow 3:

Average throughput: 35.97 Mbit/s

95th percentile per-packet one-way delay: 20.026 ms

Loss rate: 0.06%

Run 5: Report of Saturator — Data Link



Run 6: Statistics of Saturator

Start at: Tue, 04 Jul 2017 20:36:56 +0000

End at: Tue, 04 Jul 2017 20:37:26 +0000

Local clock offset: -0.047 ms

Remote clock offset: -0.814 ms

# Below is generated by plot.py at Wed, 05 Jul 2017 04:58:33 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 213.46 Mbit/s

95th percentile per-packet one-way delay: 19.951 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 106.92 Mbit/s

95th percentile per-packet one-way delay: 19.888 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 71.03 Mbit/s

95th percentile per-packet one-way delay: 20.149 ms

Loss rate: 0.18%

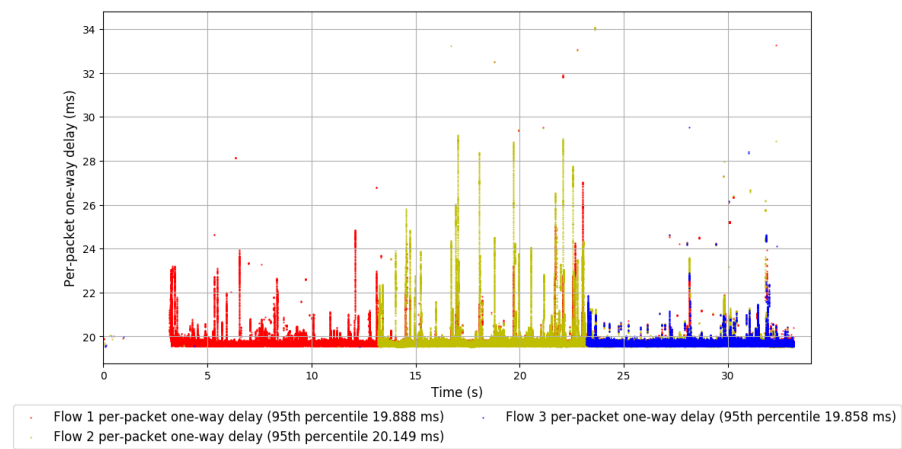
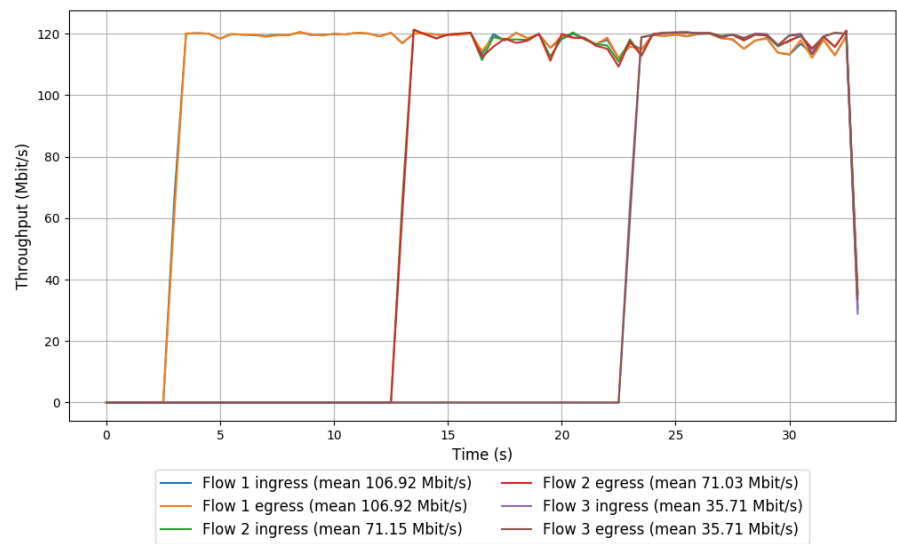
-- Flow 3:

Average throughput: 35.71 Mbit/s

95th percentile per-packet one-way delay: 19.858 ms

Loss rate: 0.00%

Run 6: Report of Saturator — Data Link



Run 7: Statistics of Saturator

Start at: Tue, 04 Jul 2017 20:57:58 +0000

End at: Tue, 04 Jul 2017 20:58:28 +0000

Local clock offset: 0.078 ms

Remote clock offset: -1.033 ms

# Below is generated by plot.py at Wed, 05 Jul 2017 04:58:52 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 214.56 Mbit/s

95th percentile per-packet one-way delay: 19.940 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 107.21 Mbit/s

95th percentile per-packet one-way delay: 19.977 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 71.73 Mbit/s

95th percentile per-packet one-way delay: 19.910 ms

Loss rate: 0.06%

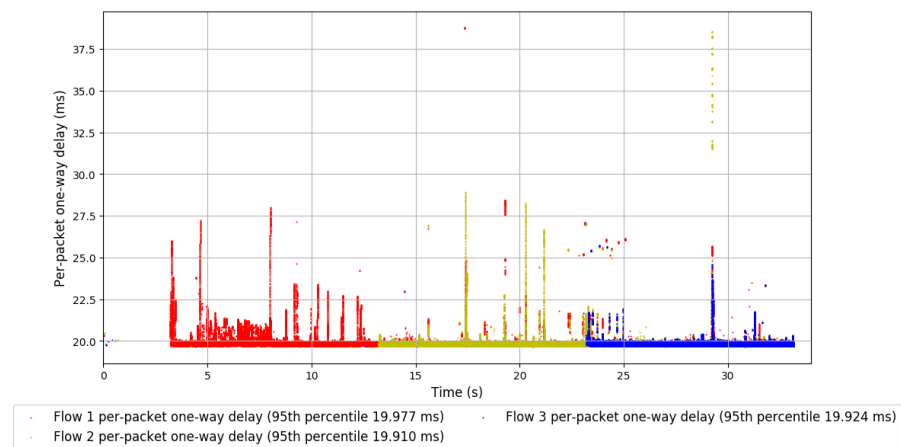
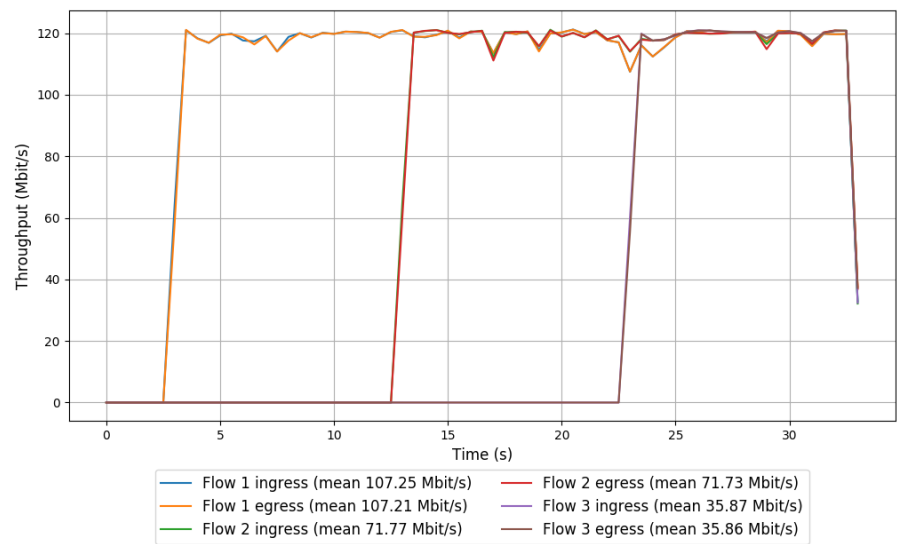
-- Flow 3:

Average throughput: 35.86 Mbit/s

95th percentile per-packet one-way delay: 19.924 ms

Loss rate: 0.00%

Run 7: Report of Saturator — Data Link



Run 8: Statistics of Saturator

Start at: Tue, 04 Jul 2017 21:18:27 +0000

End at: Tue, 04 Jul 2017 21:18:57 +0000

Local clock offset: -0.146 ms

Remote clock offset: -1.092 ms

# Below is generated by plot.py at Wed, 05 Jul 2017 04:59:05 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 216.33 Mbit/s

95th percentile per-packet one-way delay: 19.886 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 108.52 Mbit/s

95th percentile per-packet one-way delay: 19.912 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 72.15 Mbit/s

95th percentile per-packet one-way delay: 19.867 ms

Loss rate: 0.00%

-- Flow 3:

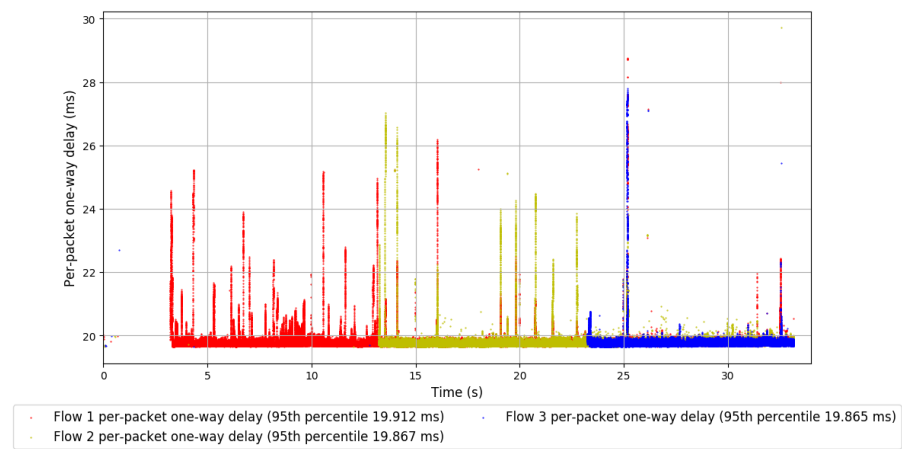
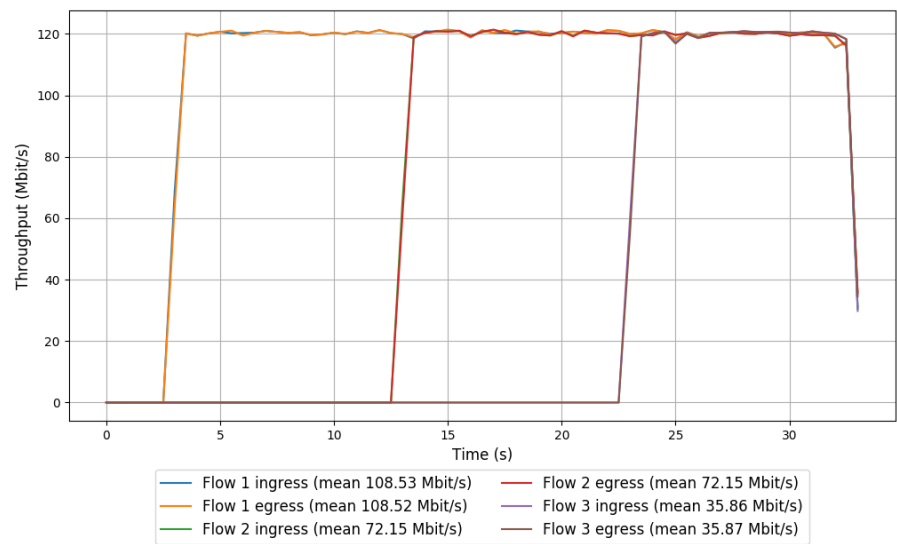
Average throughput: 35.87 Mbit/s

95th percentile per-packet one-way delay: 19.865 ms

Loss rate: 0.01%



Run 8: Report of Saturator — Data Link



Run 9: Statistics of Saturator

Start at: Tue, 04 Jul 2017 21:39:17 +0000

End at: Tue, 04 Jul 2017 21:39:47 +0000

Local clock offset: -0.018 ms

Remote clock offset: -1.53 ms

# Below is generated by plot.py at Wed, 05 Jul 2017 04:59:23 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 215.98 Mbit/s

95th percentile per-packet one-way delay: 20.420 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 108.03 Mbit/s

95th percentile per-packet one-way delay: 20.545 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 72.15 Mbit/s

95th percentile per-packet one-way delay: 20.373 ms

Loss rate: 0.00%

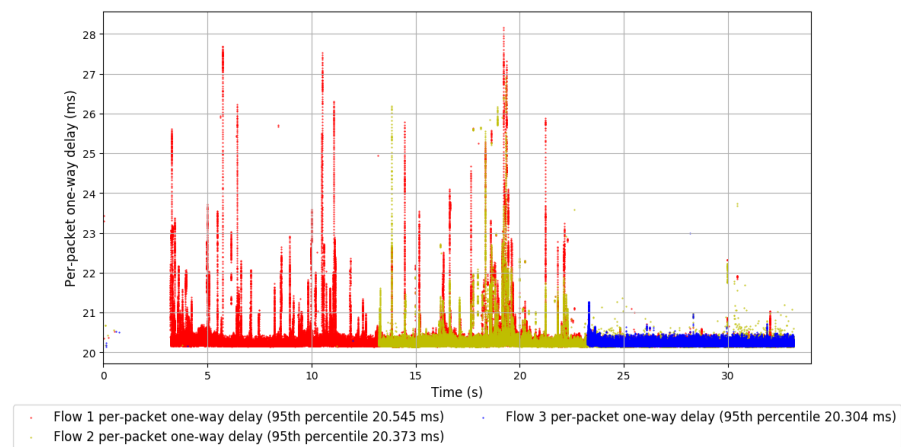
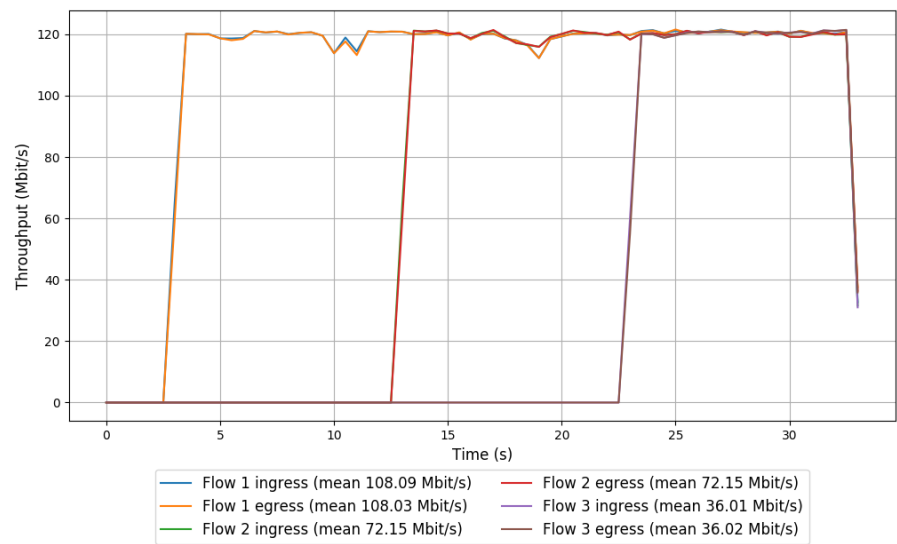
-- Flow 3:

Average throughput: 36.02 Mbit/s

95th percentile per-packet one-way delay: 20.304 ms

Loss rate: 0.00%

Run 9: Report of Saturator — Data Link



Run 10: Statistics of Saturator

Start at: Tue, 04 Jul 2017 21:59:59 +0000

End at: Tue, 04 Jul 2017 22:00:29 +0000

Local clock offset: 0.015 ms

Remote clock offset: -1.721 ms

# Below is generated by plot.py at Wed, 05 Jul 2017 04:59:45 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 215.66 Mbit/s

95th percentile per-packet one-way delay: 20.578 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 107.63 Mbit/s

95th percentile per-packet one-way delay: 20.655 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 72.40 Mbit/s

95th percentile per-packet one-way delay: 20.550 ms

Loss rate: 0.01%

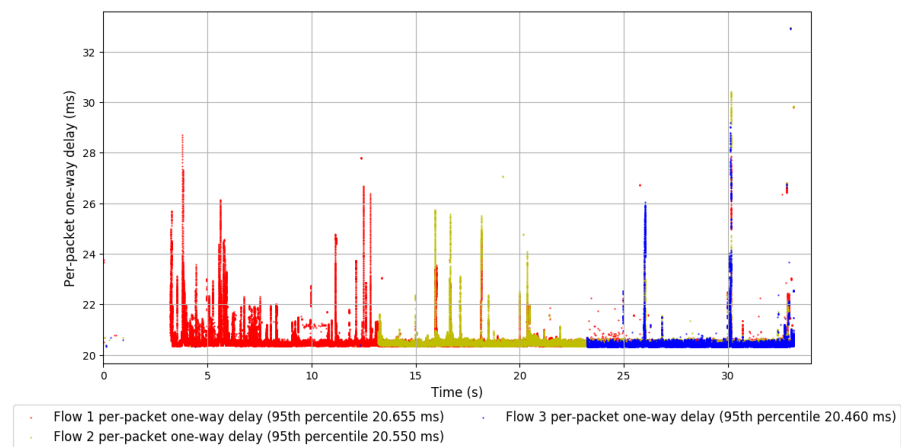
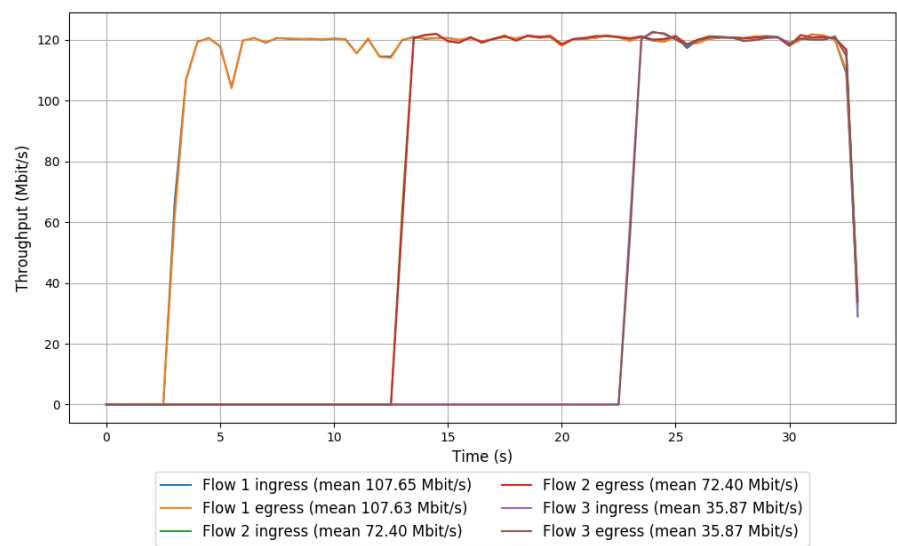
-- Flow 3:

Average throughput: 35.87 Mbit/s

95th percentile per-packet one-way delay: 20.460 ms

Loss rate: 0.01%

Run 10: Report of Saturator — Data Link



Run 1: Statistics of SCReAM

Start at: Tue, 04 Jul 2017 18:44:12 +0000

End at: Tue, 04 Jul 2017 18:44:42 +0000

Local clock offset: 0.538 ms

Remote clock offset: -0.939 ms

# Below is generated by plot.py at Wed, 05 Jul 2017 04:59:45 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 20.595 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.20 Mbit/s

95th percentile per-packet one-way delay: 20.596 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.13 Mbit/s

95th percentile per-packet one-way delay: 20.596 ms

Loss rate: 0.00%

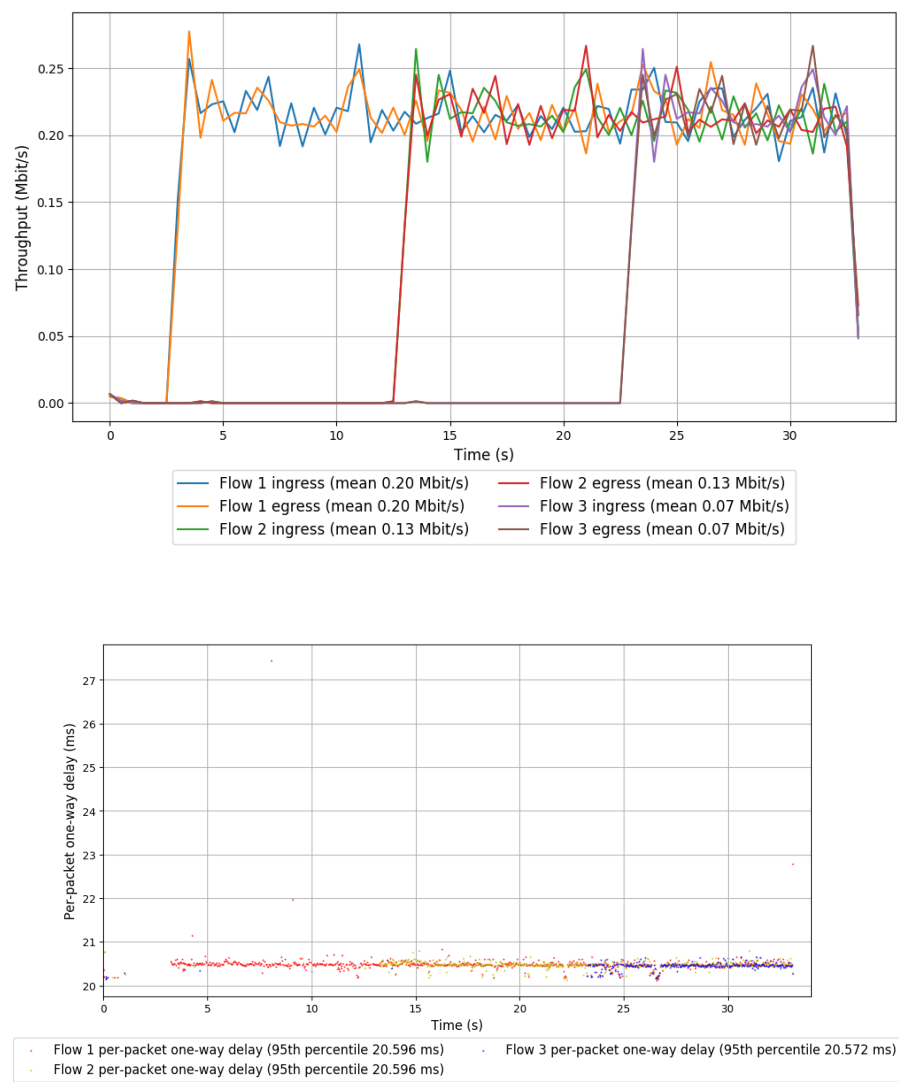
-- Flow 3:

Average throughput: 0.07 Mbit/s

95th percentile per-packet one-way delay: 20.572 ms

Loss rate: 0.00%

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SCReAM

Start at: Tue, 04 Jul 2017 19:05:19 +0000

End at: Tue, 04 Jul 2017 19:05:49 +0000

Local clock offset: 0.344 ms

Remote clock offset: -0.948 ms

# Below is generated by plot.py at Wed, 05 Jul 2017 04:59:45 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 20.402 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.20 Mbit/s

95th percentile per-packet one-way delay: 20.412 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.13 Mbit/s

95th percentile per-packet one-way delay: 20.388 ms

Loss rate: 0.00%

-- Flow 3:

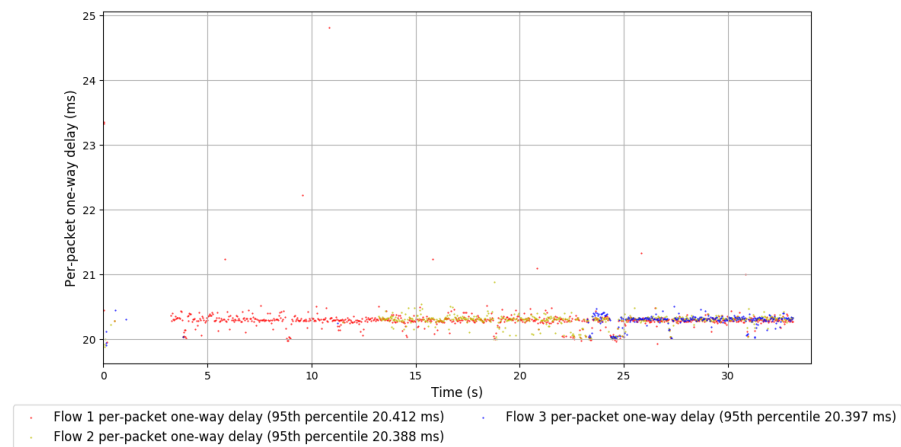
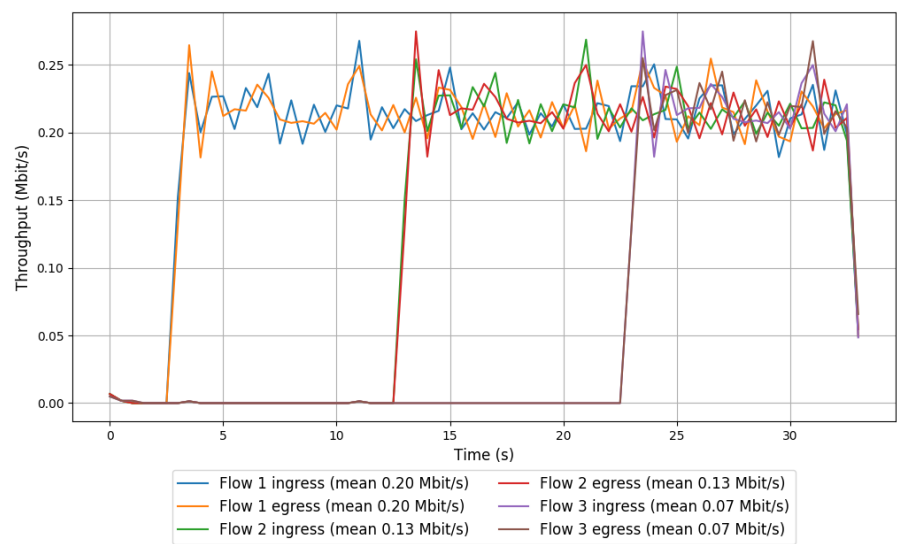
Average throughput: 0.07 Mbit/s

95th percentile per-packet one-way delay: 20.397 ms

Loss rate: 0.00%



Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: Tue, 04 Jul 2017 19:26:09 +0000

End at: Tue, 04 Jul 2017 19:26:39 +0000

Local clock offset: 0.118 ms

Remote clock offset: -1.318 ms

# Below is generated by plot.py at Wed, 05 Jul 2017 04:59:45 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 20.633 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.20 Mbit/s

95th percentile per-packet one-way delay: 20.628 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.13 Mbit/s

95th percentile per-packet one-way delay: 20.625 ms

Loss rate: 0.00%

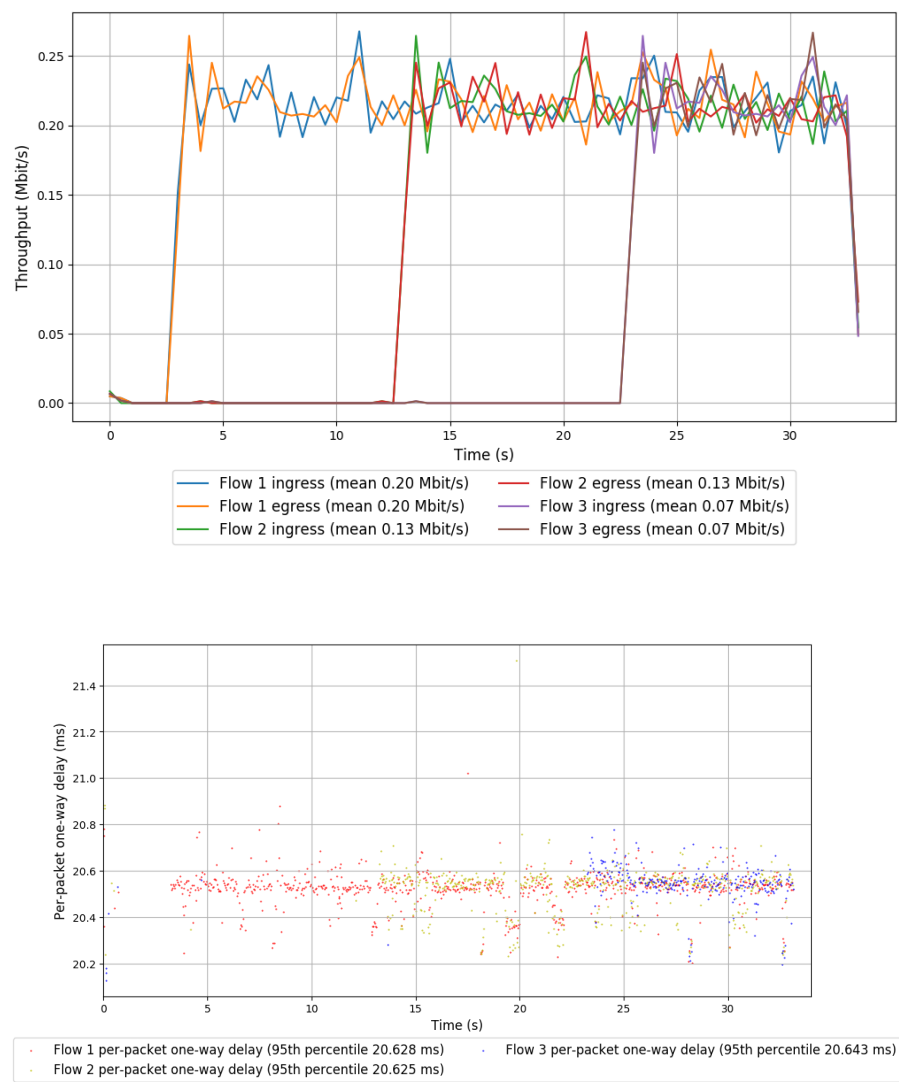
-- Flow 3:

Average throughput: 0.07 Mbit/s

95th percentile per-packet one-way delay: 20.643 ms

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: Tue, 04 Jul 2017 19:47:05 +0000

End at: Tue, 04 Jul 2017 19:47:35 +0000

Local clock offset: 0.14 ms

Remote clock offset: -1.29 ms

# Below is generated by plot.py at Wed, 05 Jul 2017 04:59:45 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 20.473 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.20 Mbit/s

95th percentile per-packet one-way delay: 20.489 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.13 Mbit/s

95th percentile per-packet one-way delay: 20.427 ms

Loss rate: 0.00%

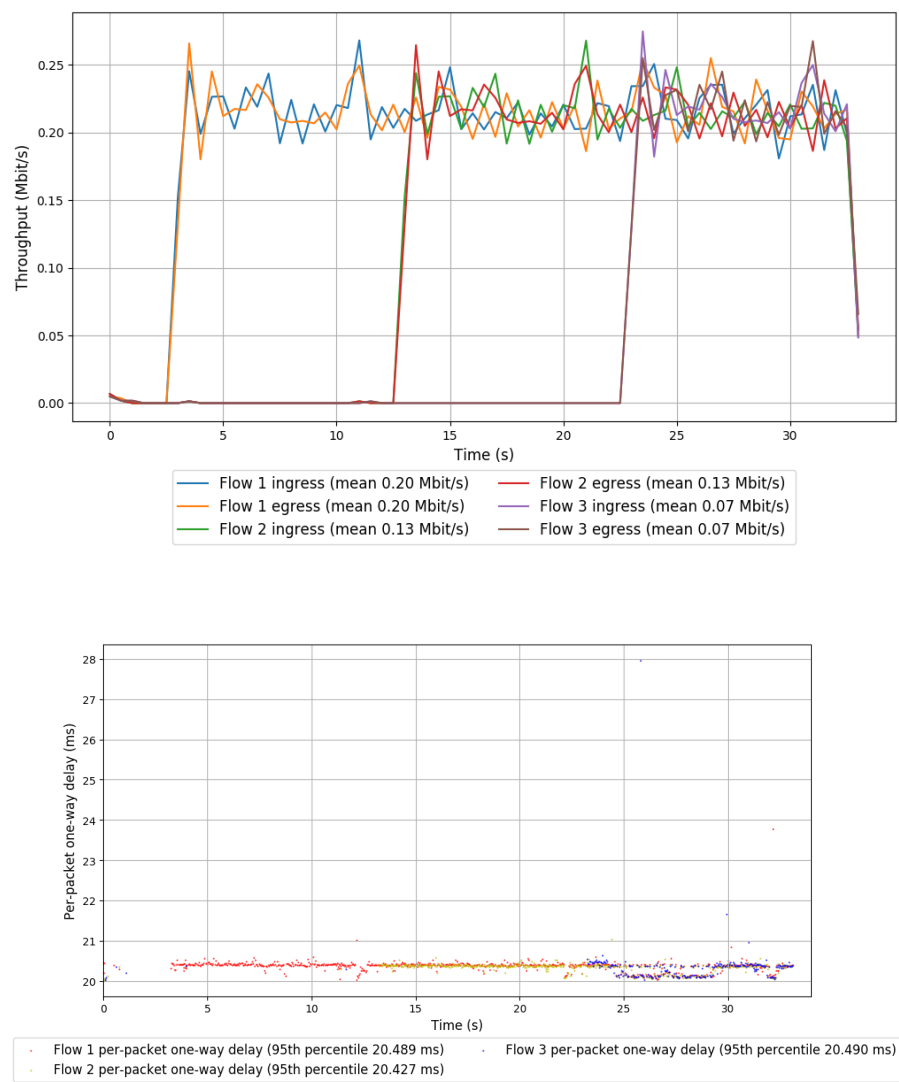
-- Flow 3:

Average throughput: 0.07 Mbit/s

95th percentile per-packet one-way delay: 20.490 ms

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: Tue, 04 Jul 2017 20:07:41 +0000

End at: Tue, 04 Jul 2017 20:08:11 +0000

Local clock offset: -0.025 ms

Remote clock offset: -0.917 ms

# Below is generated by plot.py at Wed, 05 Jul 2017 04:59:45 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 20.098 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.20 Mbit/s

95th percentile per-packet one-way delay: 20.096 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.13 Mbit/s

95th percentile per-packet one-way delay: 20.068 ms

Loss rate: 0.00%

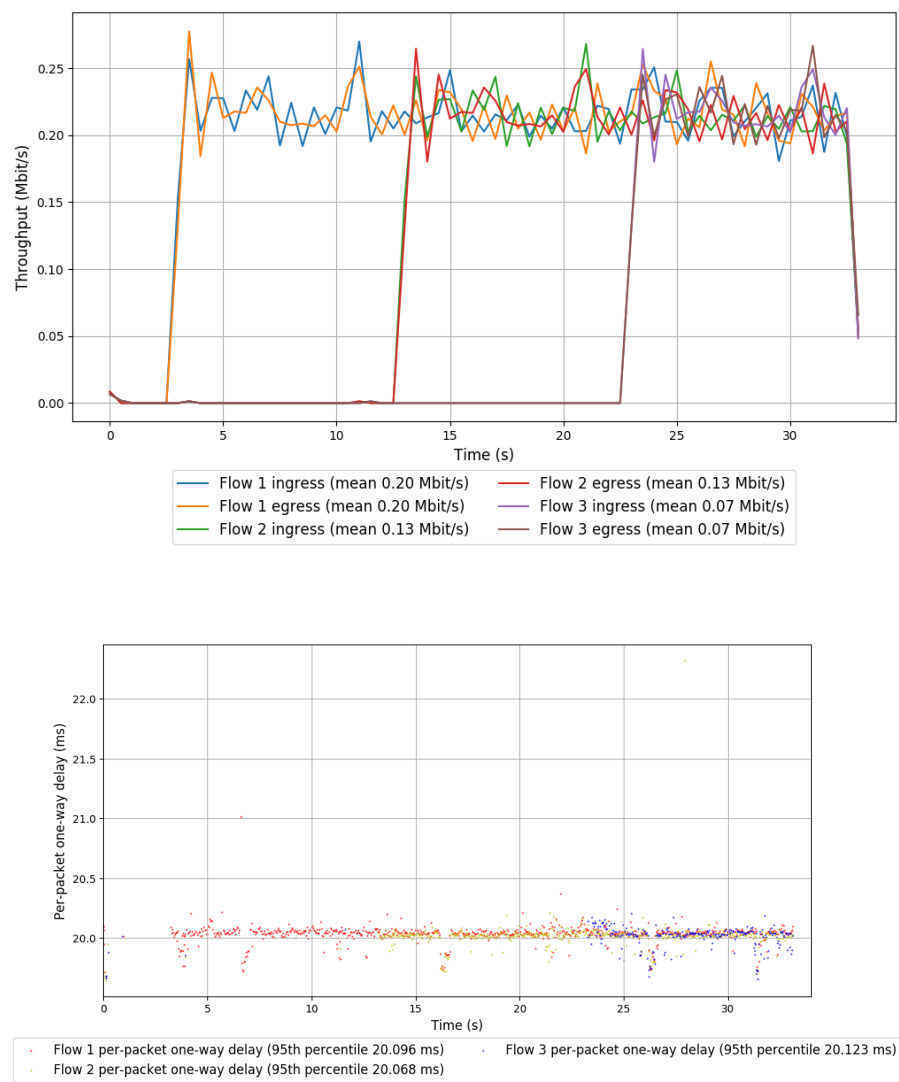
-- Flow 3:

Average throughput: 0.07 Mbit/s

95th percentile per-packet one-way delay: 20.123 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: Tue, 04 Jul 2017 20:28:38 +0000

End at: Tue, 04 Jul 2017 20:29:08 +0000

Local clock offset: -0.041 ms

Remote clock offset: -0.922 ms

# Below is generated by plot.py at Wed, 05 Jul 2017 04:59:45 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 20.055 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.20 Mbit/s

95th percentile per-packet one-way delay: 20.059 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.13 Mbit/s

95th percentile per-packet one-way delay: 20.037 ms

Loss rate: 0.00%

-- Flow 3:

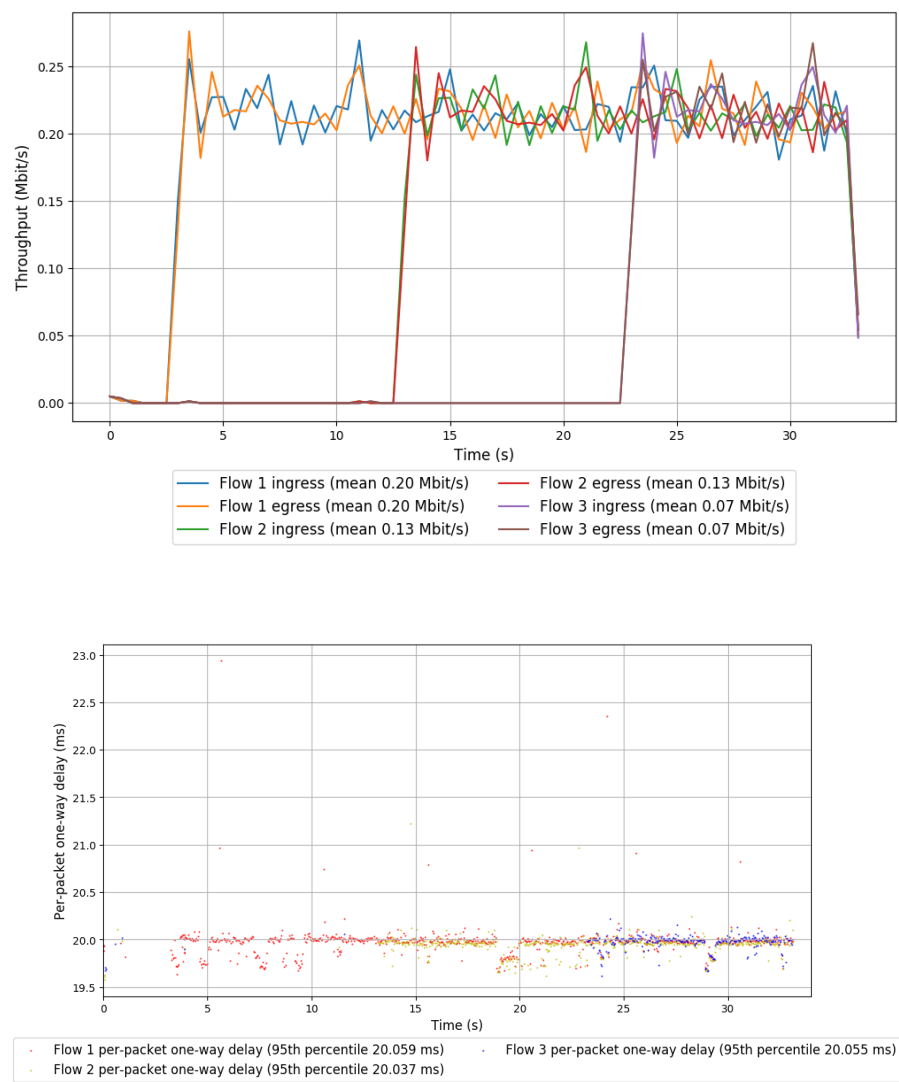
Average throughput: 0.07 Mbit/s

95th percentile per-packet one-way delay: 20.055 ms

Loss rate: 0.00%



Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: Tue, 04 Jul 2017 20:49:30 +0000

End at: Tue, 04 Jul 2017 20:50:00 +0000

Local clock offset: 0.019 ms

Remote clock offset: -0.97 ms

# Below is generated by plot.py at Wed, 05 Jul 2017 04:59:45 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 20.209 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.20 Mbit/s

95th percentile per-packet one-way delay: 20.220 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.13 Mbit/s

95th percentile per-packet one-way delay: 20.201 ms

Loss rate: 0.00%

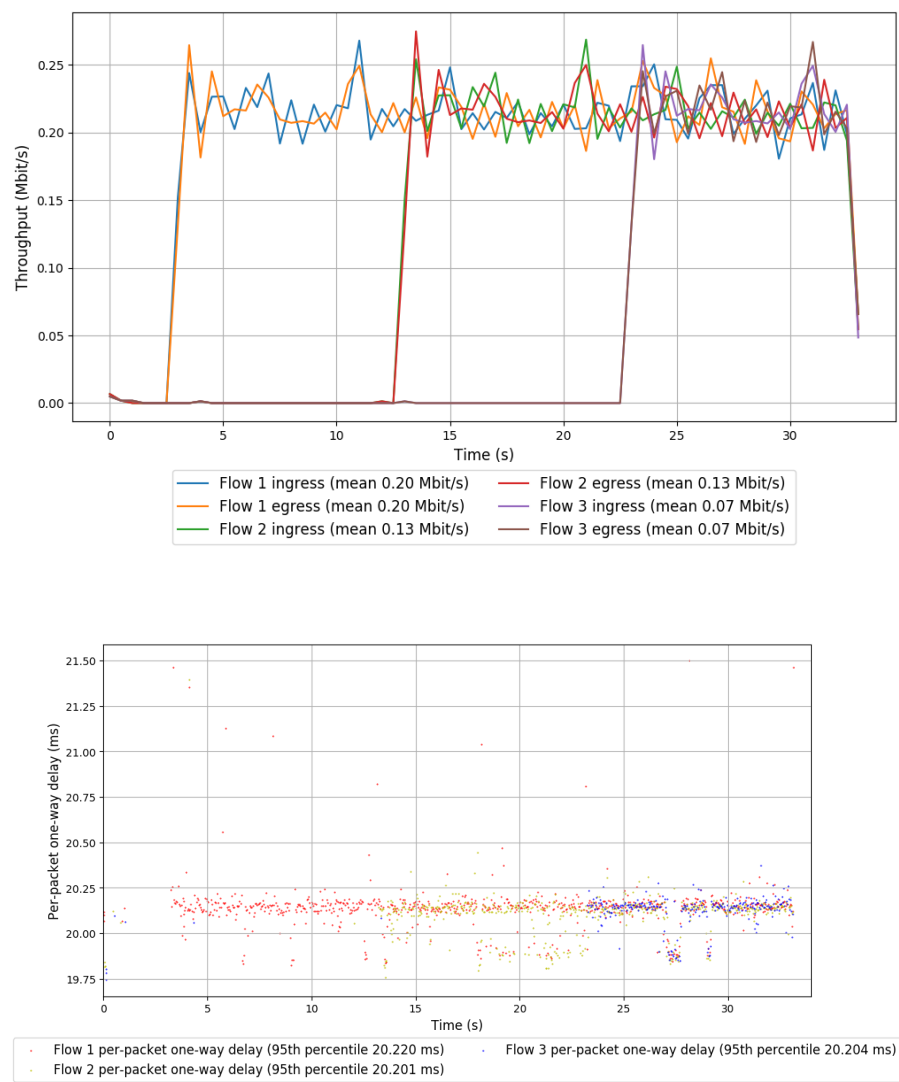
-- Flow 3:

Average throughput: 0.07 Mbit/s

95th percentile per-packet one-way delay: 20.204 ms

Loss rate: 0.00%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: Tue, 04 Jul 2017 21:10:07 +0000

End at: Tue, 04 Jul 2017 21:10:37 +0000

Local clock offset: -0.062 ms

Remote clock offset: -1.097 ms

# Below is generated by plot.py at Wed, 05 Jul 2017 04:59:45 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 20.140 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.20 Mbit/s

95th percentile per-packet one-way delay: 20.149 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.13 Mbit/s

95th percentile per-packet one-way delay: 20.122 ms

Loss rate: 0.00%

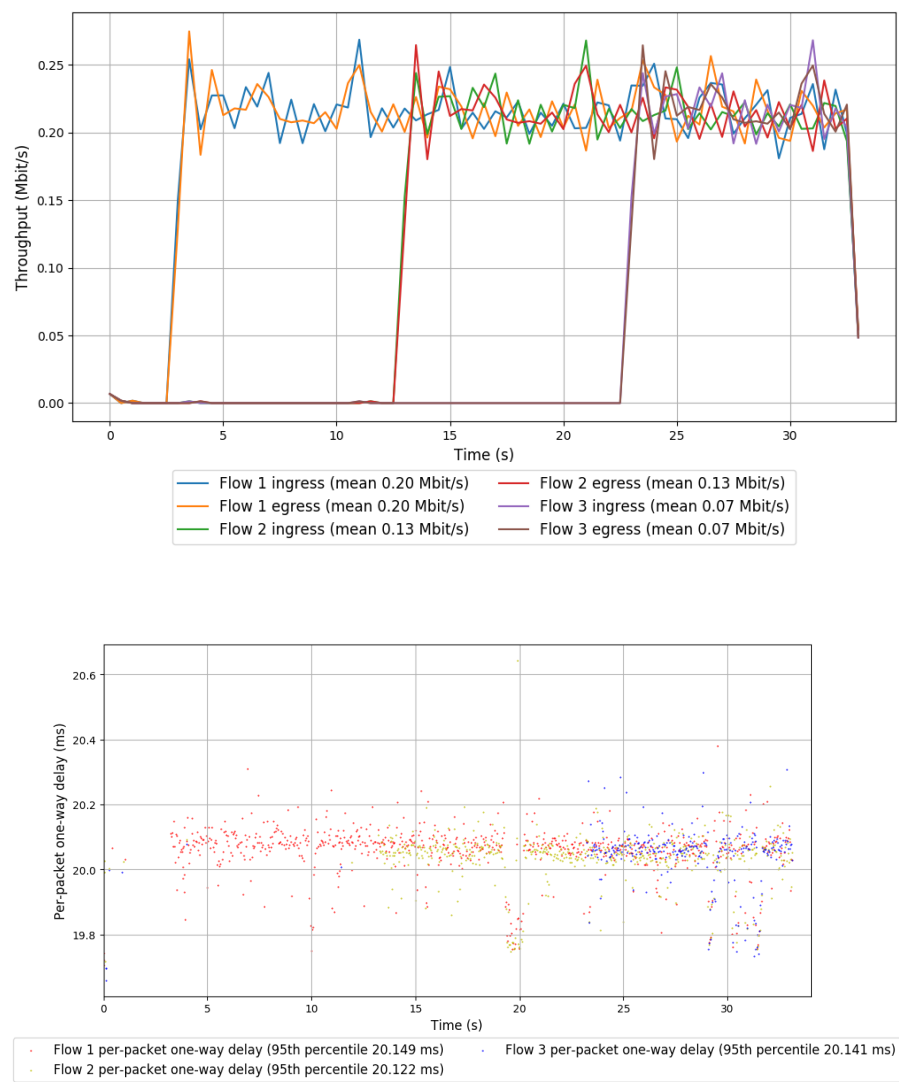
-- Flow 3:

Average throughput: 0.07 Mbit/s

95th percentile per-packet one-way delay: 20.141 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: Tue, 04 Jul 2017 21:30:44 +0000

End at: Tue, 04 Jul 2017 21:31:14 +0000

Local clock offset: -0.133 ms

Remote clock offset: -1.449 ms

# Below is generated by plot.py at Wed, 05 Jul 2017 04:59:45 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 20.511 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.20 Mbit/s

95th percentile per-packet one-way delay: 20.465 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.13 Mbit/s

95th percentile per-packet one-way delay: 20.527 ms

Loss rate: 0.00%

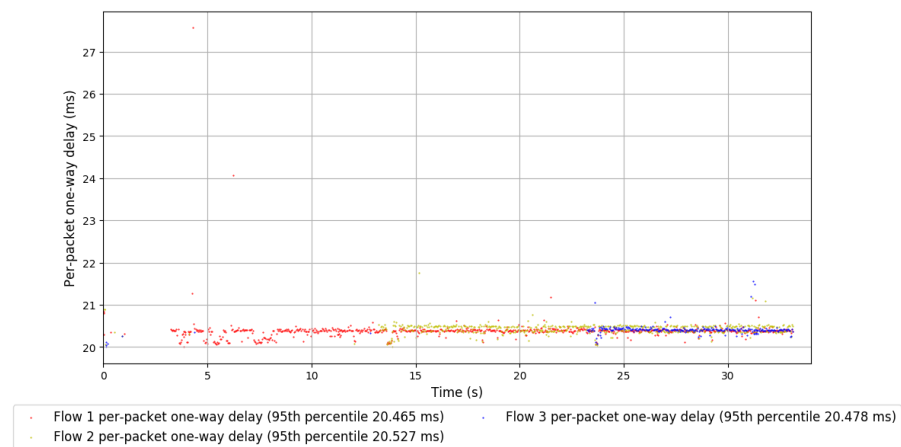
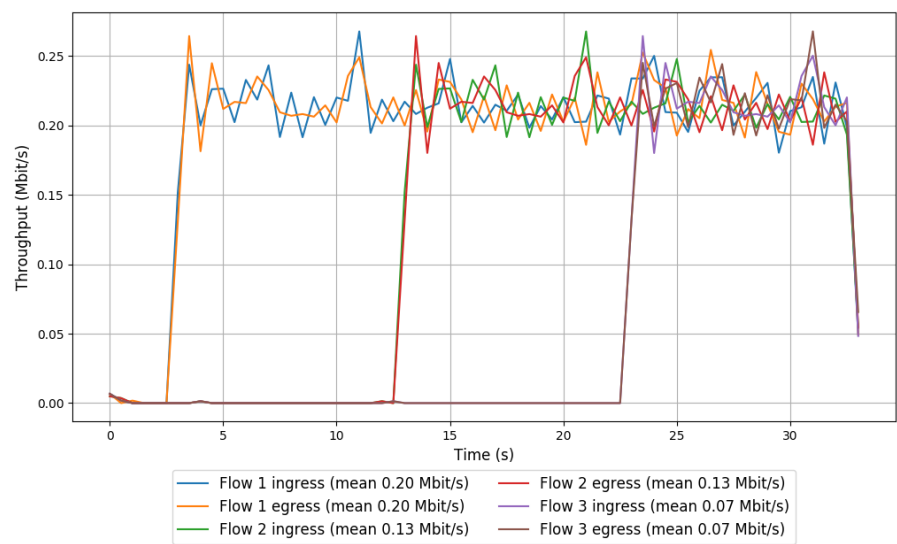
-- Flow 3:

Average throughput: 0.07 Mbit/s

95th percentile per-packet one-way delay: 20.478 ms

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: Tue, 04 Jul 2017 21:51:37 +0000

End at: Tue, 04 Jul 2017 21:52:07 +0000

Local clock offset: -0.054 ms

Remote clock offset: -1.694 ms

# Below is generated by plot.py at Wed, 05 Jul 2017 04:59:45 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 20.852 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.20 Mbit/s

95th percentile per-packet one-way delay: 20.871 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.13 Mbit/s

95th percentile per-packet one-way delay: 20.823 ms

Loss rate: 0.00%

-- Flow 3:

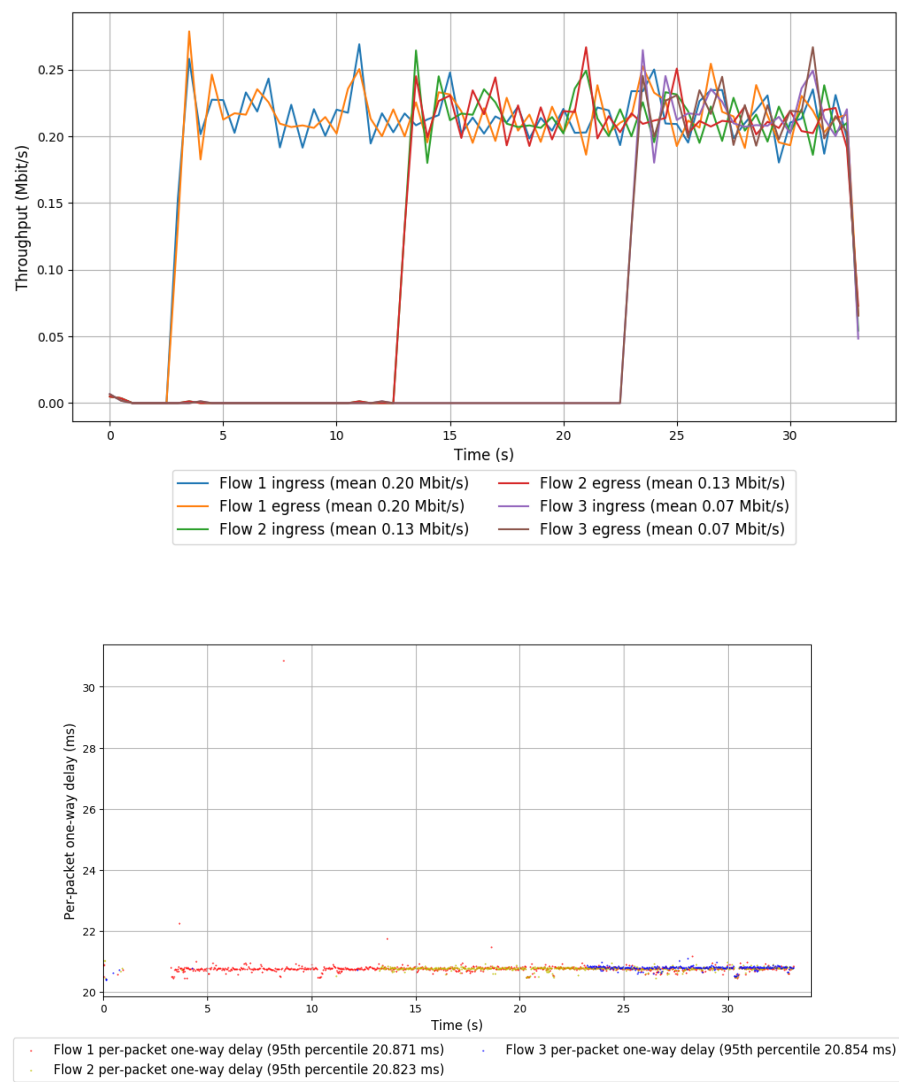
Average throughput: 0.07 Mbit/s

95th percentile per-packet one-way delay: 20.854 ms

Loss rate: 0.00%



Run 10: Report of SReAM — Data Link



Run 1: Statistics of Sprout

Start at: Tue, 04 Jul 2017 18:55:50 +0000

End at: Tue, 04 Jul 2017 18:56:20 +0000

Local clock offset: 0.435 ms

Remote clock offset: -0.804 ms

# Below is generated by plot.py at Wed, 05 Jul 2017 04:59:45 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 44.33 Mbit/s

95th percentile per-packet one-way delay: 22.107 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 22.35 Mbit/s

95th percentile per-packet one-way delay: 22.316 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 14.80 Mbit/s

95th percentile per-packet one-way delay: 21.671 ms

Loss rate: 0.00%

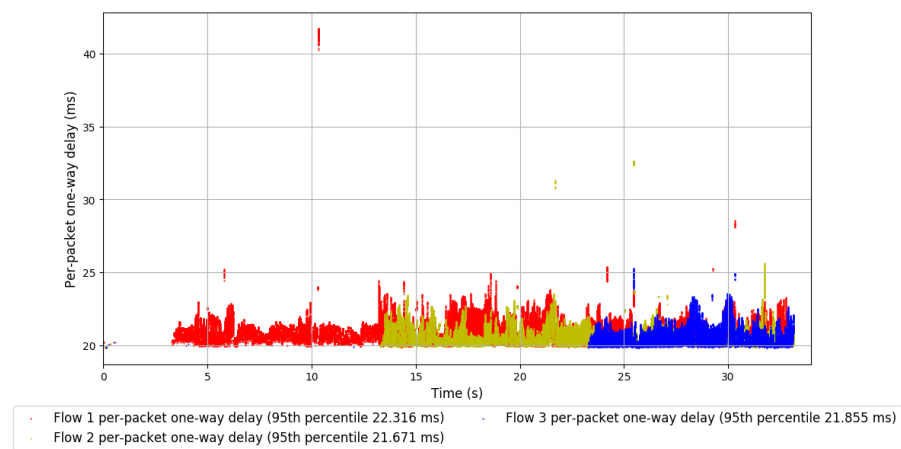
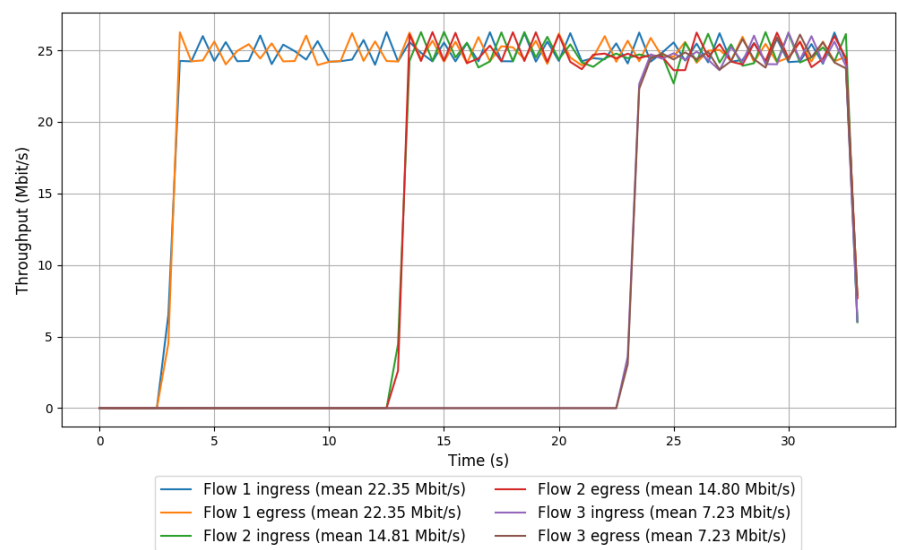
-- Flow 3:

Average throughput: 7.23 Mbit/s

95th percentile per-packet one-way delay: 21.855 ms

Loss rate: 0.00%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: Tue, 04 Jul 2017 19:16:50 +0000

End at: Tue, 04 Jul 2017 19:17:20 +0000

Local clock offset: 0.19 ms

Remote clock offset: -1.097 ms

# Below is generated by plot.py at Wed, 05 Jul 2017 04:59:50 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 44.36 Mbit/s

95th percentile per-packet one-way delay: 23.082 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 22.31 Mbit/s

95th percentile per-packet one-way delay: 23.377 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 14.83 Mbit/s

95th percentile per-packet one-way delay: 22.842 ms

Loss rate: 0.02%

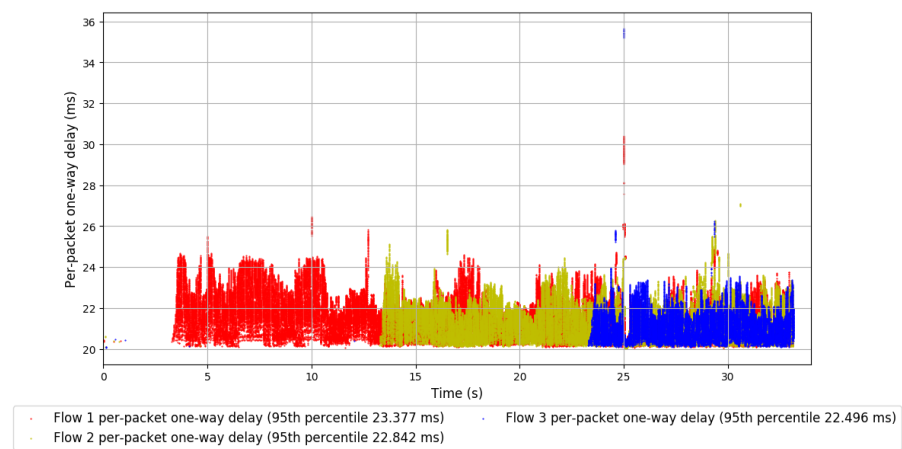
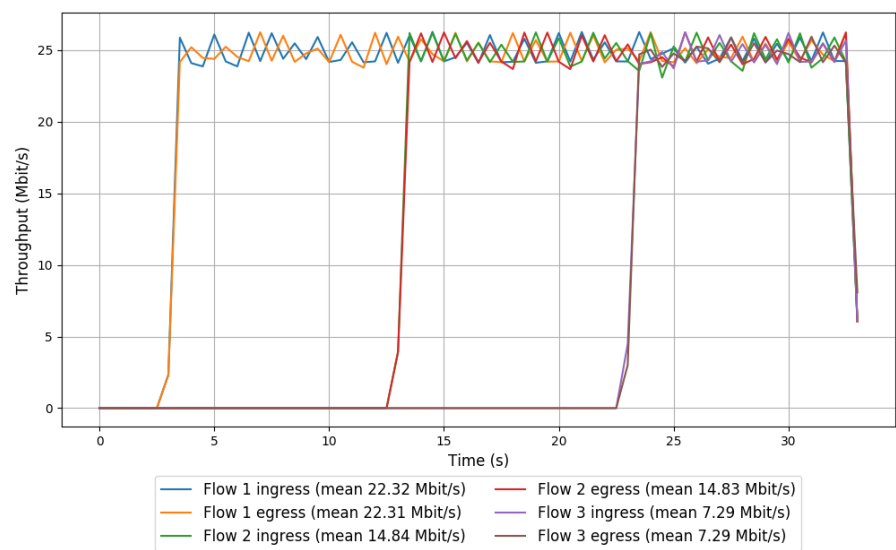
-- Flow 3:

Average throughput: 7.29 Mbit/s

95th percentile per-packet one-way delay: 22.496 ms

Loss rate: 0.01%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: Tue, 04 Jul 2017 19:37:32 +0000

End at: Tue, 04 Jul 2017 19:38:02 +0000

Local clock offset: 0.146 ms

Remote clock offset: -1.458 ms

# Below is generated by plot.py at Wed, 05 Jul 2017 04:59:53 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 44.52 Mbit/s

95th percentile per-packet one-way delay: 23.282 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 22.41 Mbit/s

95th percentile per-packet one-way delay: 23.456 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 14.84 Mbit/s

95th percentile per-packet one-way delay: 23.193 ms

Loss rate: 0.00%

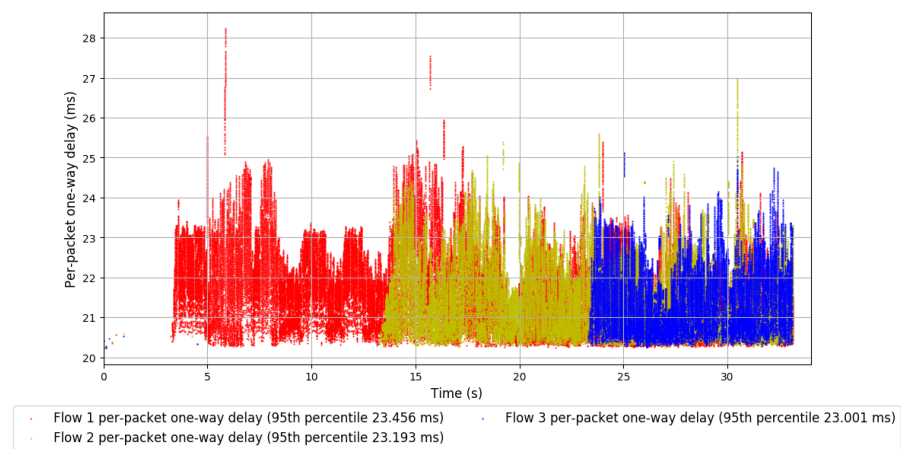
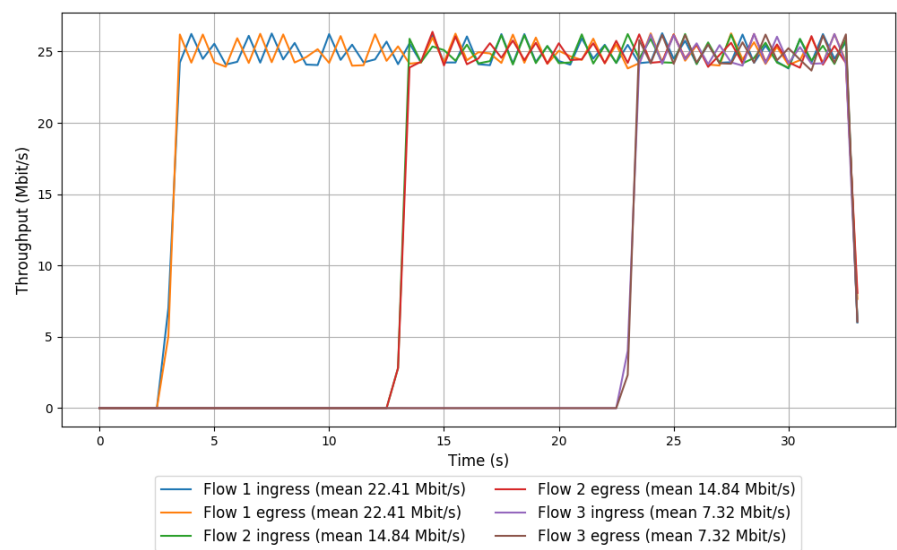
-- Flow 3:

Average throughput: 7.32 Mbit/s

95th percentile per-packet one-way delay: 23.001 ms

Loss rate: 0.00%

Run 3: Report of Sprout — Data Link



#### Run 4: Statistics of Sprout

Start at: Tue, 04 Jul 2017 19:58:15 +0000

End at: Tue, 04 Jul 2017 19:58:45 +0000

Local clock offset: -0.006 ms

Remote clock offset: -1.042 ms

# Below is generated by plot.py at Wed, 05 Jul 2017 04:59:57 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 44.39 Mbit/s

95th percentile per-packet one-way delay: 22.338 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 22.36 Mbit/s

95th percentile per-packet one-way delay: 22.537 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 14.91 Mbit/s

95th percentile per-packet one-way delay: 22.264 ms

Loss rate: 0.00%

-- Flow 3:

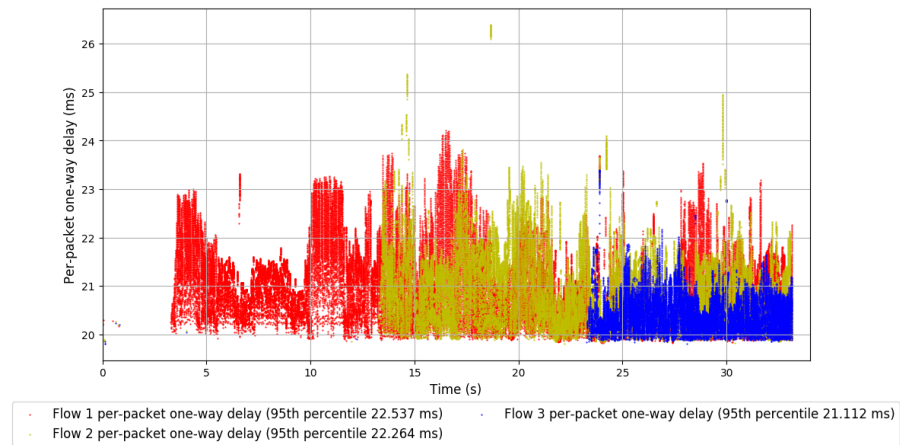
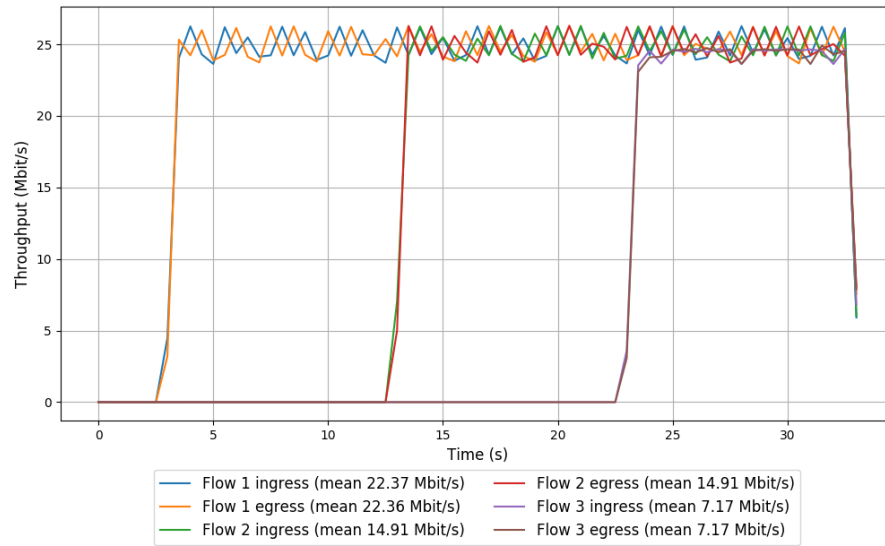
Average throughput: 7.17 Mbit/s

95th percentile per-packet one-way delay: 21.112 ms

Loss rate: 0.00%



# Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: Tue, 04 Jul 2017 20:19:13 +0000

End at: Tue, 04 Jul 2017 20:19:43 +0000

Local clock offset: -0.022 ms

Remote clock offset: -1.096 ms

# Below is generated by plot.py at Wed, 05 Jul 2017 05:00:01 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 44.54 Mbit/s

95th percentile per-packet one-way delay: 22.611 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 22.38 Mbit/s

95th percentile per-packet one-way delay: 23.126 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 14.87 Mbit/s

95th percentile per-packet one-way delay: 22.138 ms

Loss rate: 0.01%

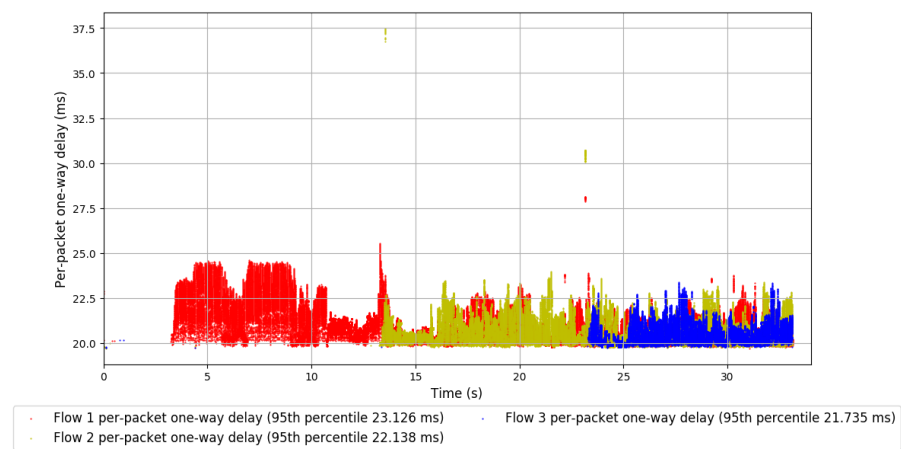
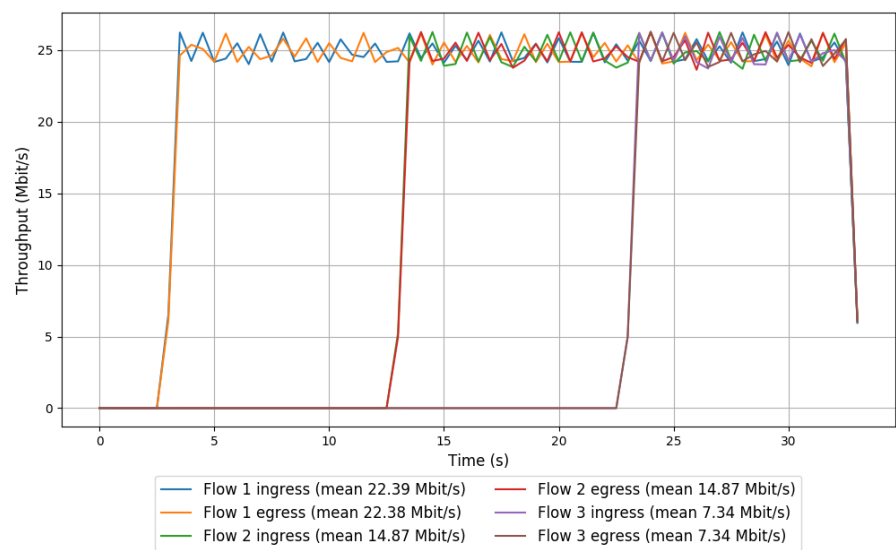
-- Flow 3:

Average throughput: 7.34 Mbit/s

95th percentile per-packet one-way delay: 21.735 ms

Loss rate: 0.00%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: Tue, 04 Jul 2017 20:40:05 +0000

End at: Tue, 04 Jul 2017 20:40:35 +0000

Local clock offset: -0.009 ms

Remote clock offset: -0.808 ms

# Below is generated by plot.py at Wed, 05 Jul 2017 05:00:05 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 44.35 Mbit/s

95th percentile per-packet one-way delay: 22.037 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 22.32 Mbit/s

95th percentile per-packet one-way delay: 22.051 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 14.79 Mbit/s

95th percentile per-packet one-way delay: 22.156 ms

Loss rate: 0.00%

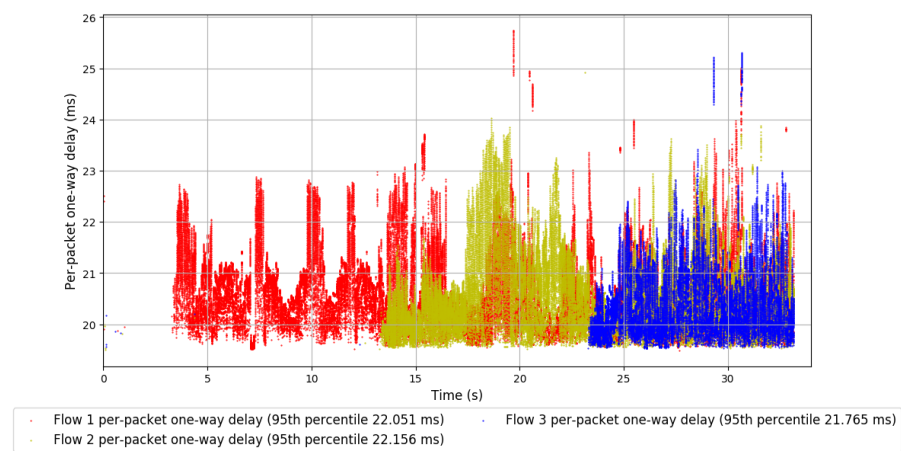
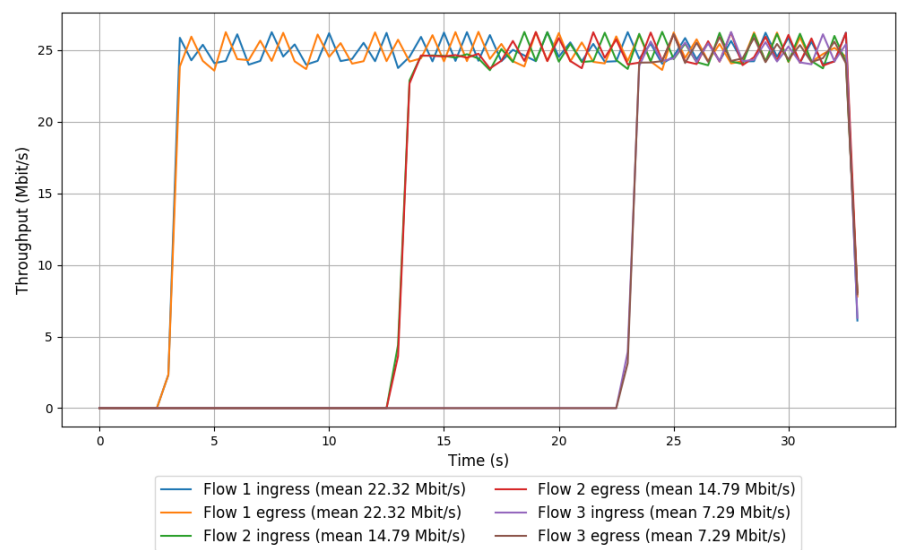
-- Flow 3:

Average throughput: 7.29 Mbit/s

95th percentile per-packet one-way delay: 21.765 ms

Loss rate: 0.00%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: Tue, 04 Jul 2017 21:00:41 +0000

End at: Tue, 04 Jul 2017 21:01:11 +0000

Local clock offset: 0.037 ms

Remote clock offset: -1.01 ms

# Below is generated by plot.py at Wed, 05 Jul 2017 05:00:08 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 44.20 Mbit/s

95th percentile per-packet one-way delay: 22.207 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 22.27 Mbit/s

95th percentile per-packet one-way delay: 22.566 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 14.62 Mbit/s

95th percentile per-packet one-way delay: 21.610 ms

Loss rate: 0.00%

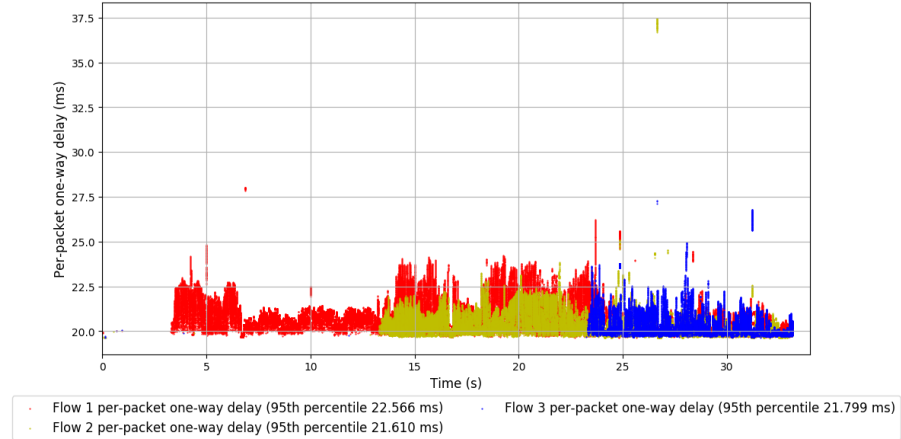
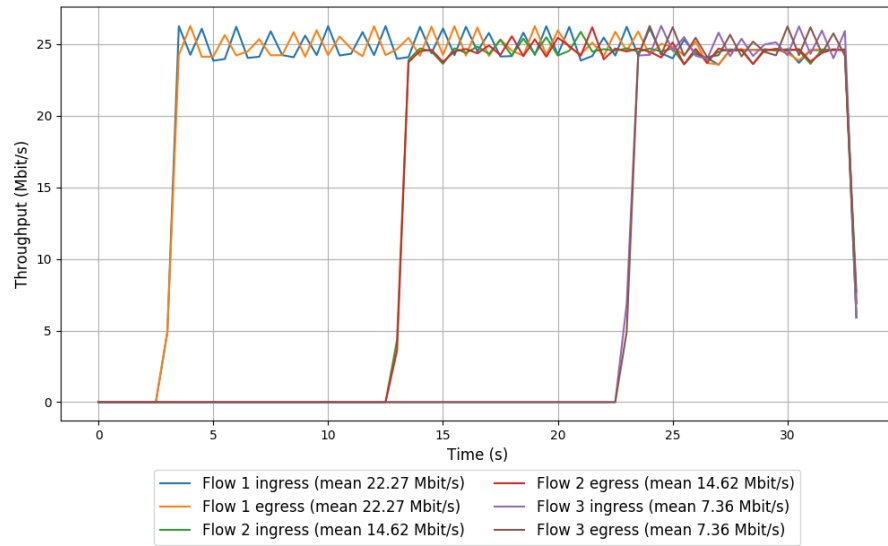
-- Flow 3:

Average throughput: 7.36 Mbit/s

95th percentile per-packet one-way delay: 21.799 ms

Loss rate: 0.00%

## Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: Tue, 04 Jul 2017 21:21:12 +0000

End at: Tue, 04 Jul 2017 21:21:42 +0000

Local clock offset: -0.073 ms

Remote clock offset: -1.126 ms

# Below is generated by plot.py at Wed, 05 Jul 2017 05:00:12 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 44.26 Mbit/s

95th percentile per-packet one-way delay: 22.441 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 22.29 Mbit/s

95th percentile per-packet one-way delay: 22.644 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 14.87 Mbit/s

95th percentile per-packet one-way delay: 22.370 ms

Loss rate: 0.00%

-- Flow 3:

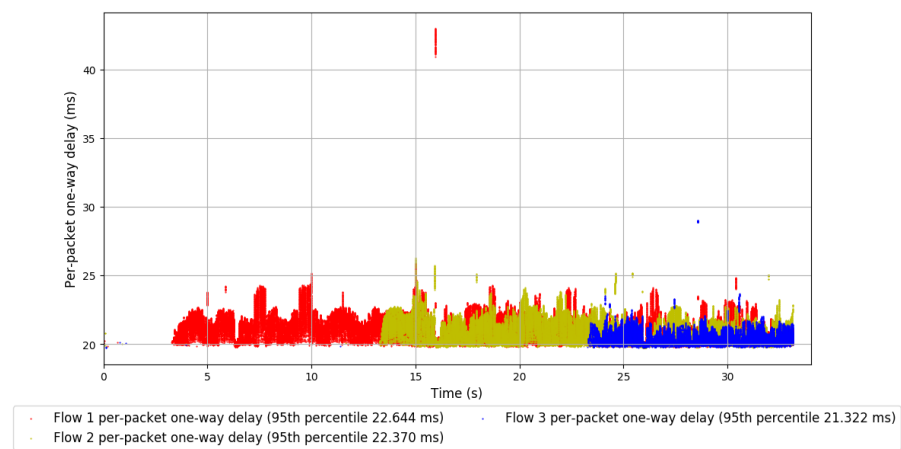
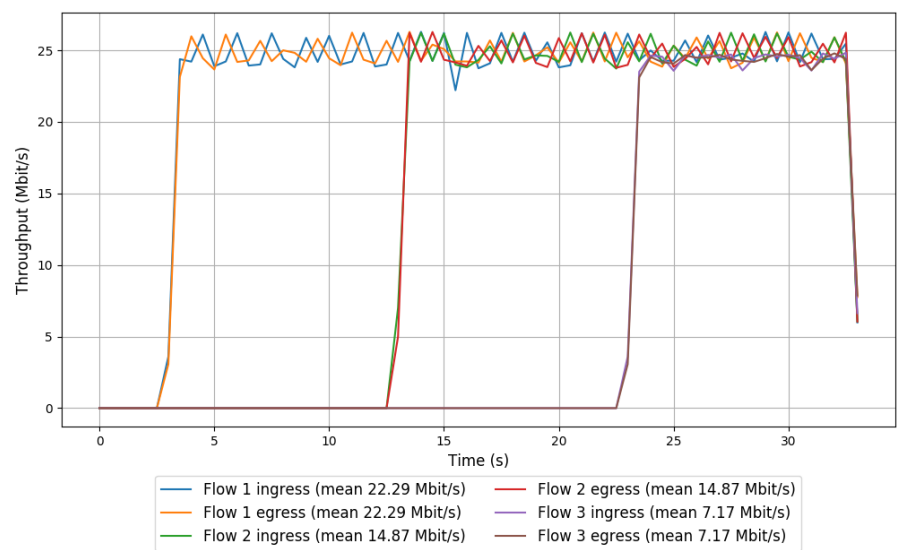
Average throughput: 7.17 Mbit/s

95th percentile per-packet one-way delay: 21.322 ms

Loss rate: 0.00%



Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: Tue, 04 Jul 2017 21:42:14 +0000

End at: Tue, 04 Jul 2017 21:42:44 +0000

Local clock offset: -0.097 ms

Remote clock offset: -1.509 ms

# Below is generated by plot.py at Wed, 05 Jul 2017 05:00:16 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 44.42 Mbit/s

95th percentile per-packet one-way delay: 22.759 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 22.32 Mbit/s

95th percentile per-packet one-way delay: 22.569 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 14.84 Mbit/s

95th percentile per-packet one-way delay: 23.232 ms

Loss rate: 0.00%

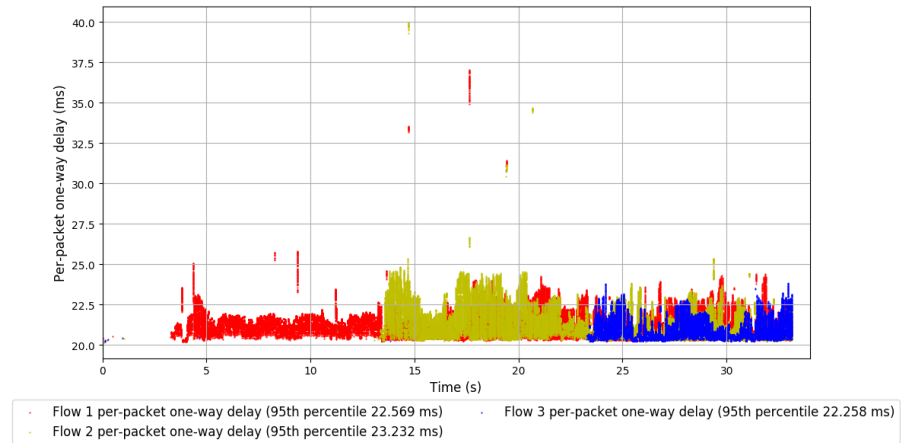
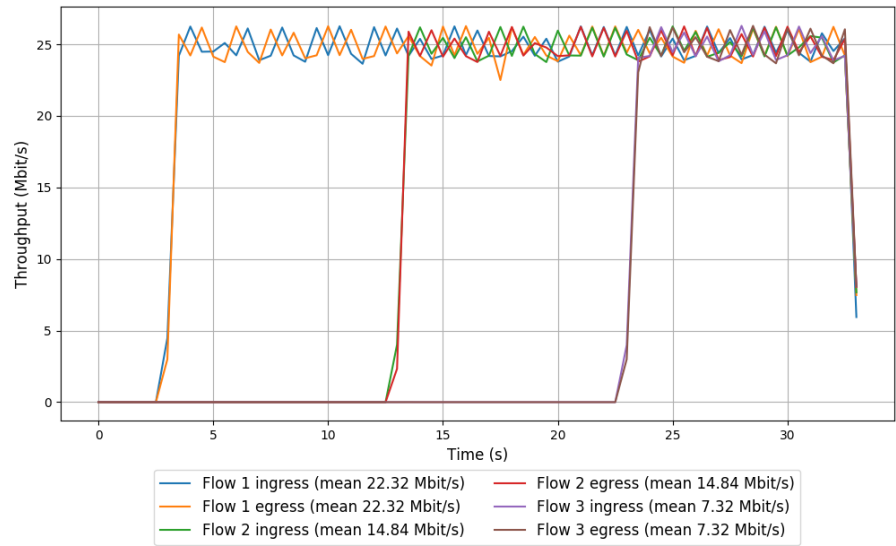
-- Flow 3:

Average throughput: 7.32 Mbit/s

95th percentile per-packet one-way delay: 22.258 ms

Loss rate: 0.00%

## Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: Tue, 04 Jul 2017 22:03:08 +0000

End at: Tue, 04 Jul 2017 22:03:38 +0000

Local clock offset: -0.066 ms

Remote clock offset: -1.573 ms

# Below is generated by plot.py at Wed, 05 Jul 2017 05:00:20 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 44.34 Mbit/s

95th percentile per-packet one-way delay: 22.933 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 22.31 Mbit/s

95th percentile per-packet one-way delay: 23.036 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 14.80 Mbit/s

95th percentile per-packet one-way delay: 22.752 ms

Loss rate: 0.00%

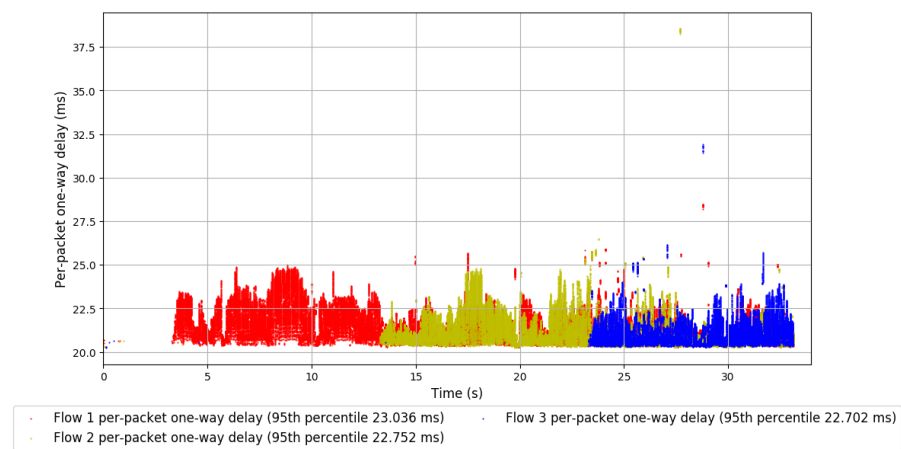
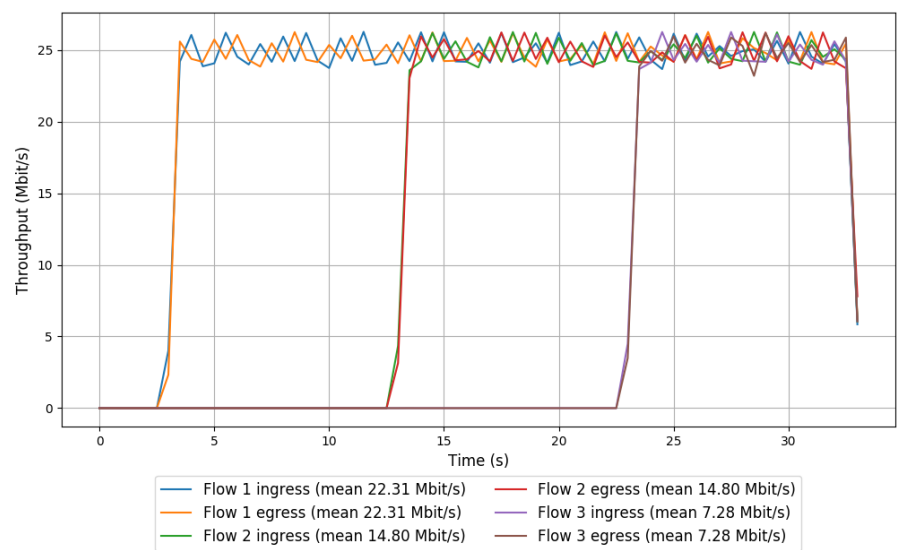
-- Flow 3:

Average throughput: 7.28 Mbit/s

95th percentile per-packet one-way delay: 22.702 ms

Loss rate: 0.00%

Run 10: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

Start at: Tue, 04 Jul 2017 18:51:15 +0000

End at: Tue, 04 Jul 2017 18:51:45 +0000

Local clock offset: 0.472 ms

Remote clock offset: -0.679 ms

# Below is generated by plot.py at Wed, 05 Jul 2017 05:00:45 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 139.45 Mbit/s

95th percentile per-packet one-way delay: 20.082 ms

Loss rate: 0.14%

-- Flow 1:

Average throughput: 97.56 Mbit/s

95th percentile per-packet one-way delay: 20.085 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 39.05 Mbit/s

95th percentile per-packet one-way delay: 20.053 ms

Loss rate: 0.17%

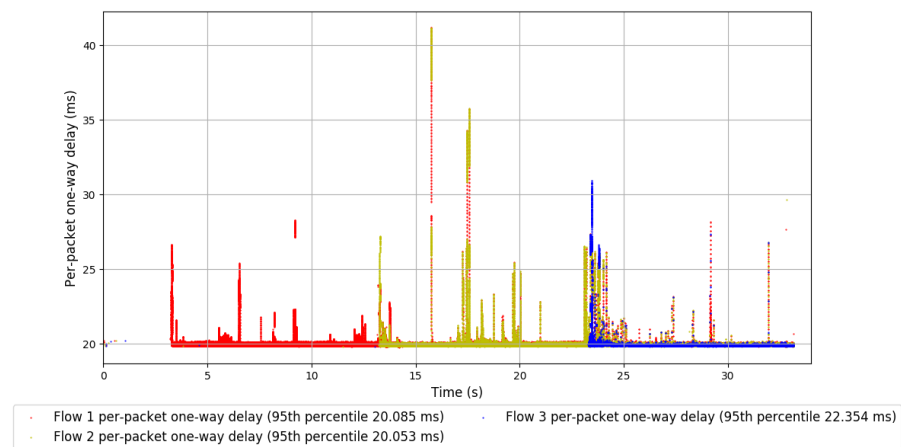
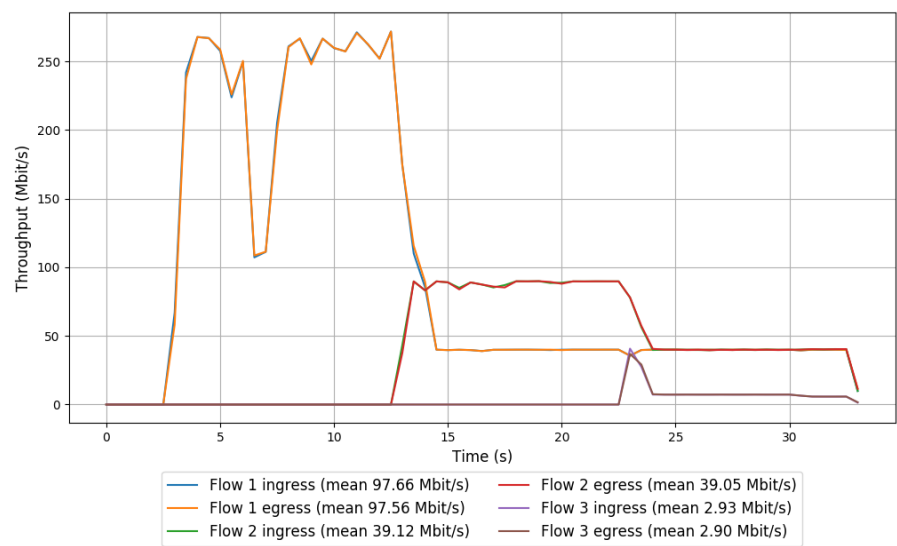
-- Flow 3:

Average throughput: 2.90 Mbit/s

95th percentile per-packet one-way delay: 22.354 ms

Loss rate: 0.81%

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



Run 2: Statistics of TaoVA-100x

Start at: Tue, 04 Jul 2017 19:12:13 +0000

End at: Tue, 04 Jul 2017 19:12:43 +0000

Local clock offset: 0.239 ms

Remote clock offset: -1.084 ms

# Below is generated by plot.py at Wed, 05 Jul 2017 05:01:03 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 172.03 Mbit/s

95th percentile per-packet one-way delay: 20.237 ms

Loss rate: 0.11%

-- Flow 1:

Average throughput: 112.39 Mbit/s

95th percentile per-packet one-way delay: 20.228 ms

Loss rate: 0.12%

-- Flow 2:

Average throughput: 54.96 Mbit/s

95th percentile per-packet one-way delay: 20.288 ms

Loss rate: 0.09%

-- Flow 3:

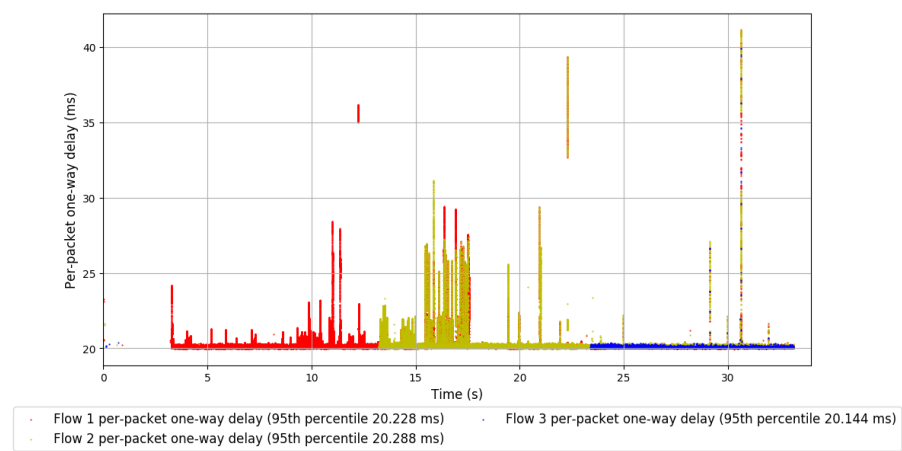
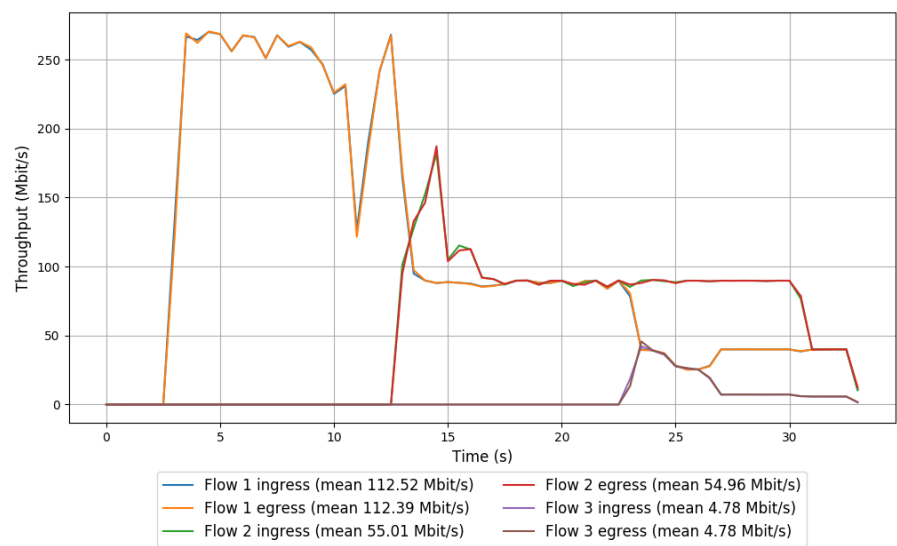
Average throughput: 4.78 Mbit/s

95th percentile per-packet one-way delay: 20.144 ms

Loss rate: 0.00%



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



Run 3: Statistics of TaoVA-100x

Start at: Tue, 04 Jul 2017 19:32:54 +0000

End at: Tue, 04 Jul 2017 19:33:24 +0000

Local clock offset: 0.158 ms

Remote clock offset: -1.438 ms

# Below is generated by plot.py at Wed, 05 Jul 2017 05:01:30 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 166.59 Mbit/s

95th percentile per-packet one-way delay: 20.456 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 91.33 Mbit/s

95th percentile per-packet one-way delay: 20.576 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 53.64 Mbit/s

95th percentile per-packet one-way delay: 20.357 ms

Loss rate: 0.00%

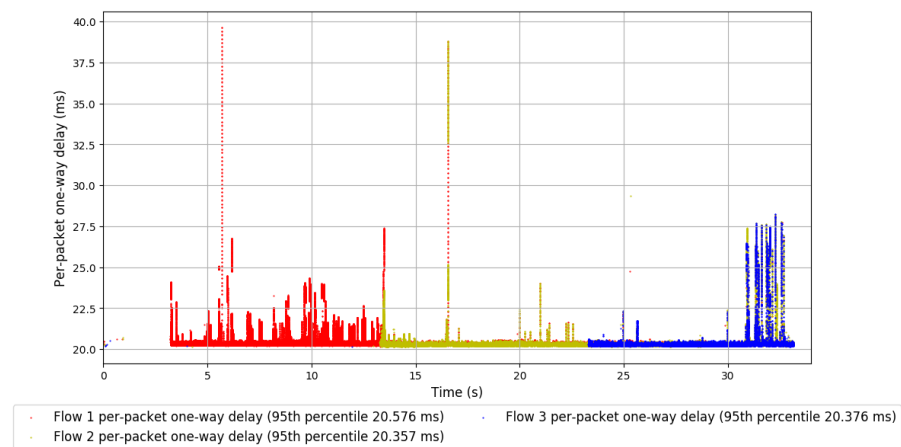
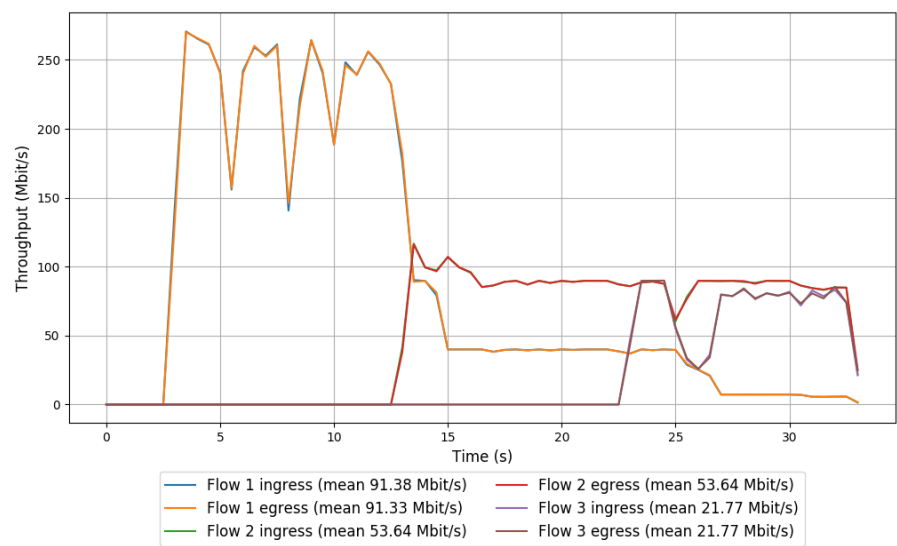
-- Flow 3:

Average throughput: 21.77 Mbit/s

95th percentile per-packet one-way delay: 20.376 ms

Loss rate: 0.00%

Run 3: Report of TaoVA-100x — Data Link



Run 4: Statistics of TaoVA-100x

Start at: Tue, 04 Jul 2017 19:53:54 +0000

End at: Tue, 04 Jul 2017 19:54:24 +0000

Local clock offset: 0.118 ms

Remote clock offset: -1.222 ms

# Below is generated by plot.py at Wed, 05 Jul 2017 05:01:45 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 155.94 Mbit/s

95th percentile per-packet one-way delay: 20.149 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 90.88 Mbit/s

95th percentile per-packet one-way delay: 20.270 ms

Loss rate: 0.17%

-- Flow 2:

Average throughput: 39.56 Mbit/s

95th percentile per-packet one-way delay: 20.088 ms

Loss rate: 0.11%

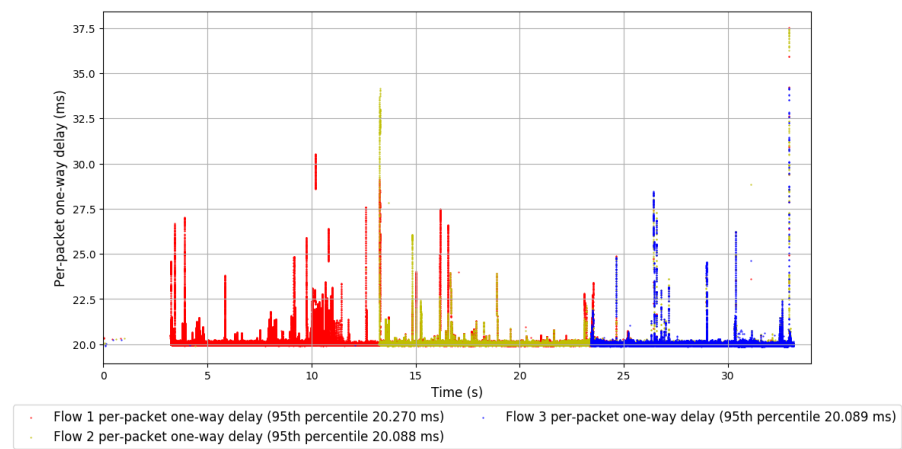
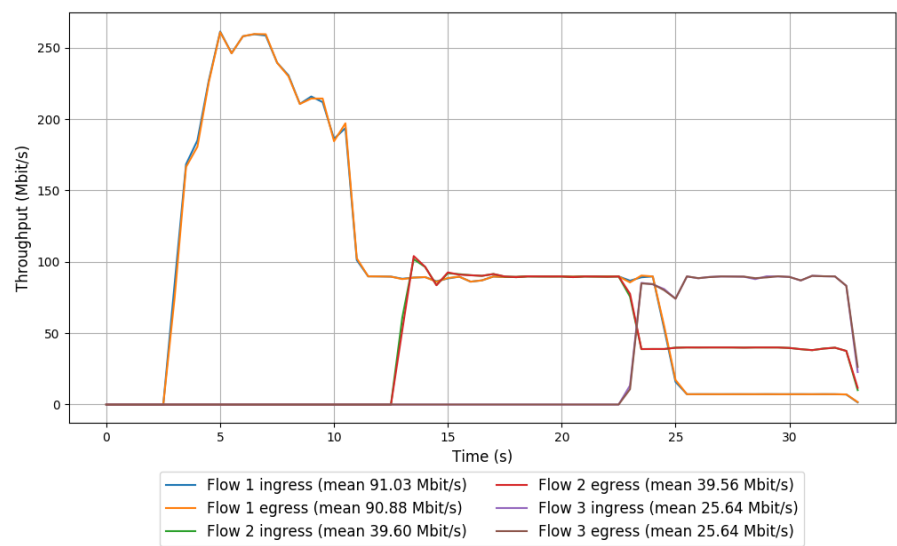
-- Flow 3:

Average throughput: 25.64 Mbit/s

95th percentile per-packet one-way delay: 20.089 ms

Loss rate: 0.00%

Run 4: Report of TaoVA-100x — Data Link



Run 5: Statistics of TaoVA-100x

Start at: Tue, 04 Jul 2017 20:14:37 +0000

End at: Tue, 04 Jul 2017 20:15:07 +0000

Local clock offset: -0.02 ms

Remote clock offset: -1.131 ms

# Below is generated by plot.py at Wed, 05 Jul 2017 05:02:18 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 152.55 Mbit/s

95th percentile per-packet one-way delay: 20.020 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 91.73 Mbit/s

95th percentile per-packet one-way delay: 20.026 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 45.31 Mbit/s

95th percentile per-packet one-way delay: 19.992 ms

Loss rate: 0.00%

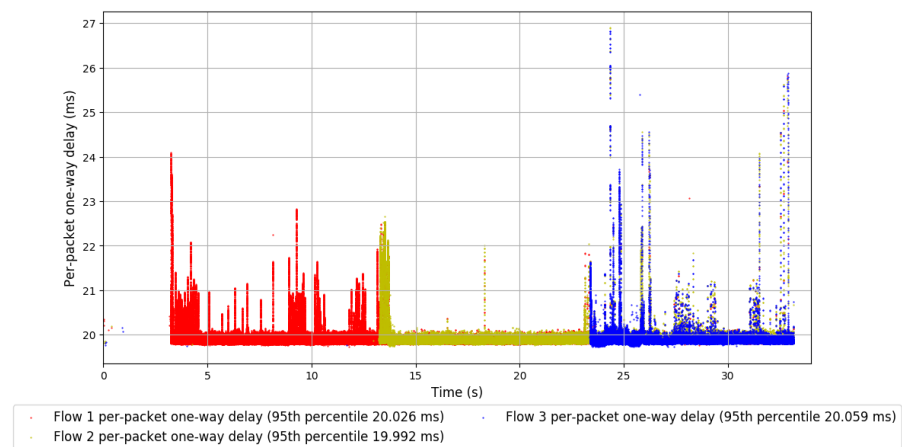
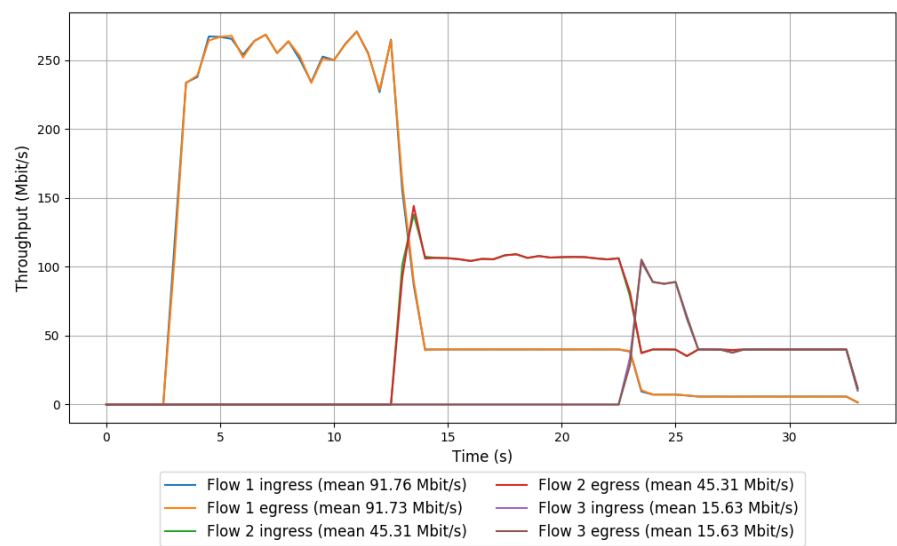
-- Flow 3:

Average throughput: 15.63 Mbit/s

95th percentile per-packet one-way delay: 20.059 ms

Loss rate: 0.00%

Run 5: Report of TaoVA-100x — Data Link



Run 6: Statistics of TaoVA-100x

Start at: Tue, 04 Jul 2017 20:35:33 +0000

End at: Tue, 04 Jul 2017 20:36:03 +0000

Local clock offset: 0.034 ms

Remote clock offset: -0.841 ms

# Below is generated by plot.py at Wed, 05 Jul 2017 05:02:20 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 119.69 Mbit/s

95th percentile per-packet one-way delay: 19.694 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 64.95 Mbit/s

95th percentile per-packet one-way delay: 19.677 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 36.23 Mbit/s

95th percentile per-packet one-way delay: 19.691 ms

Loss rate: 0.00%

-- Flow 3:

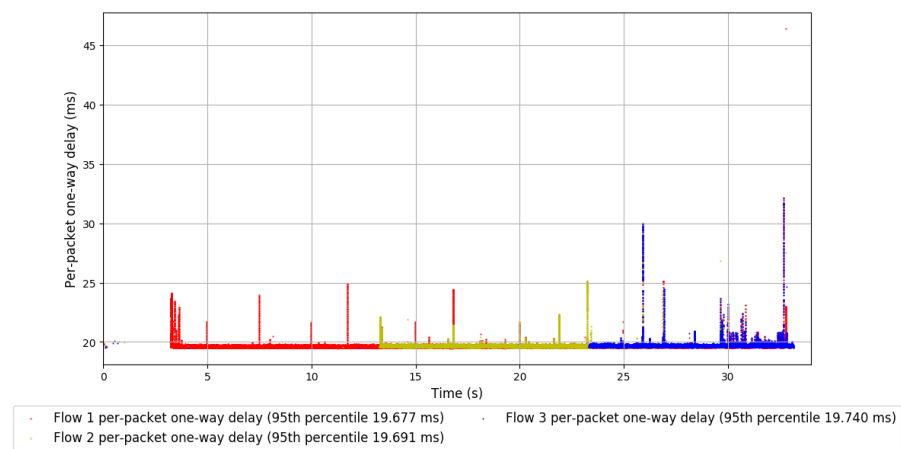
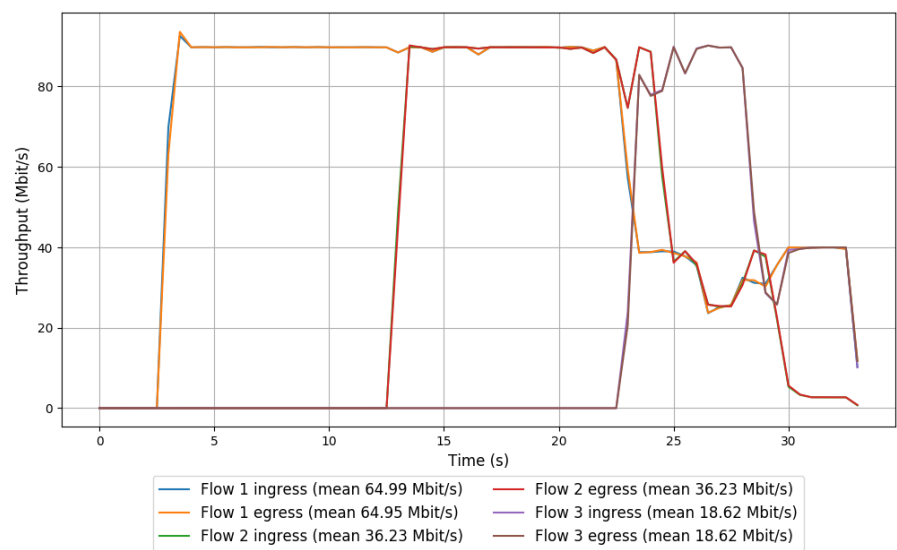
Average throughput: 18.62 Mbit/s

95th percentile per-packet one-way delay: 19.740 ms

Loss rate: 0.01%



Run 6: Report of TaoVA-100x — Data Link



Run 7: Statistics of TaoVA-100x

Start at: Tue, 04 Jul 2017 20:56:32 +0000

End at: Tue, 04 Jul 2017 20:57:02 +0000

Local clock offset: 0.074 ms

Remote clock offset: -1.044 ms

# Below is generated by plot.py at Wed, 05 Jul 2017 05:03:02 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 159.04 Mbit/s

95th percentile per-packet one-way delay: 20.298 ms

Loss rate: 0.13%

-- Flow 1:

Average throughput: 120.88 Mbit/s

95th percentile per-packet one-way delay: 20.373 ms

Loss rate: 0.14%

-- Flow 2:

Average throughput: 29.15 Mbit/s

95th percentile per-packet one-way delay: 20.150 ms

Loss rate: 0.13%

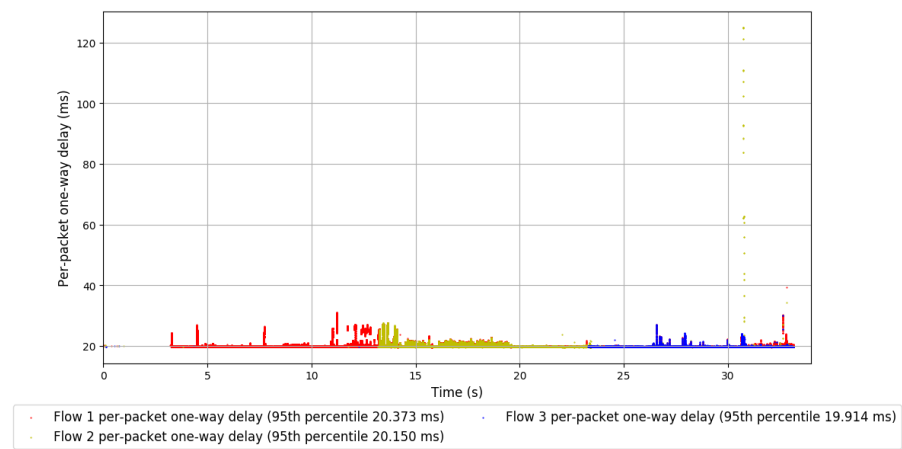
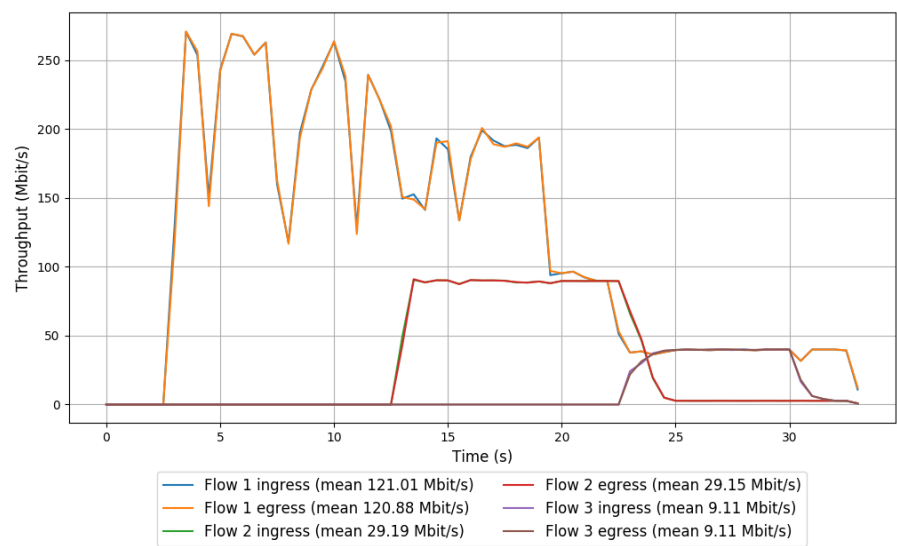
-- Flow 3:

Average throughput: 9.11 Mbit/s

95th percentile per-packet one-way delay: 19.914 ms

Loss rate: 0.00%

Run 7: Report of TaoVA-100x — Data Link



Run 8: Statistics of TaoVA-100x

Start at: Tue, 04 Jul 2017 21:17:01 +0000

End at: Tue, 04 Jul 2017 21:17:31 +0000

Local clock offset: -0.158 ms

Remote clock offset: -1.008 ms

# Below is generated by plot.py at Wed, 05 Jul 2017 05:03:02 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 151.18 Mbit/s

95th percentile per-packet one-way delay: 19.837 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 109.60 Mbit/s

95th percentile per-packet one-way delay: 19.878 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 29.37 Mbit/s

95th percentile per-packet one-way delay: 19.766 ms

Loss rate: 0.00%

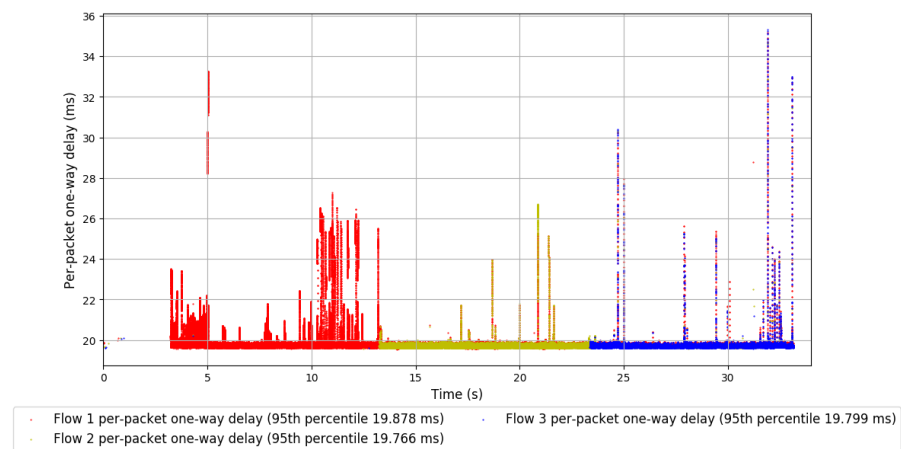
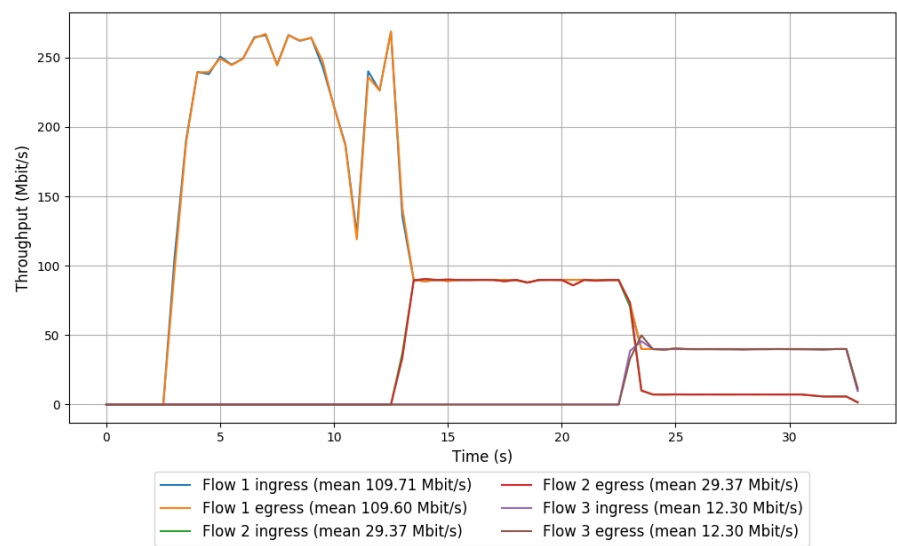
-- Flow 3:

Average throughput: 12.30 Mbit/s

95th percentile per-packet one-way delay: 19.799 ms

Loss rate: 0.00%

Run 8: Report of TaoVA-100x — Data Link



Run 9: Statistics of TaoVA-100x

Start at: Tue, 04 Jul 2017 21:37:51 +0000

End at: Tue, 04 Jul 2017 21:38:21 +0000

Local clock offset: -0.117 ms

Remote clock offset: -1.509 ms

# Below is generated by plot.py at Wed, 05 Jul 2017 05:03:40 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 156.80 Mbit/s

95th percentile per-packet one-way delay: 20.374 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 102.96 Mbit/s

95th percentile per-packet one-way delay: 20.374 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 40.42 Mbit/s

95th percentile per-packet one-way delay: 20.403 ms

Loss rate: 0.03%

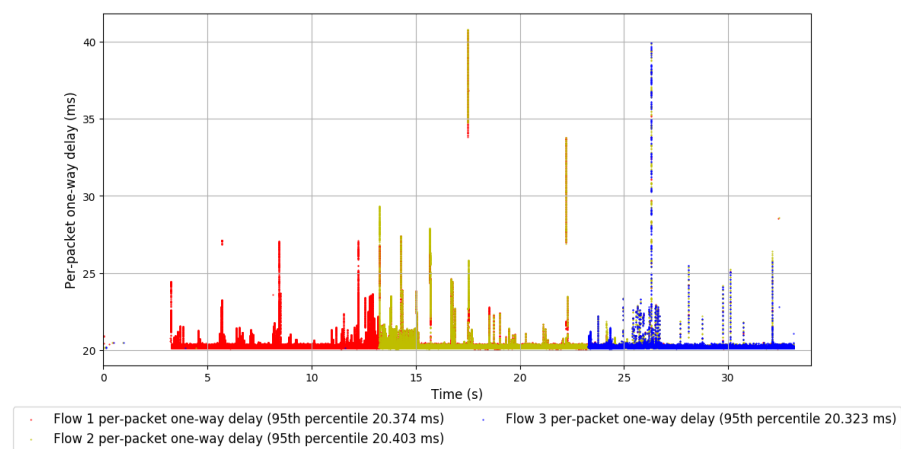
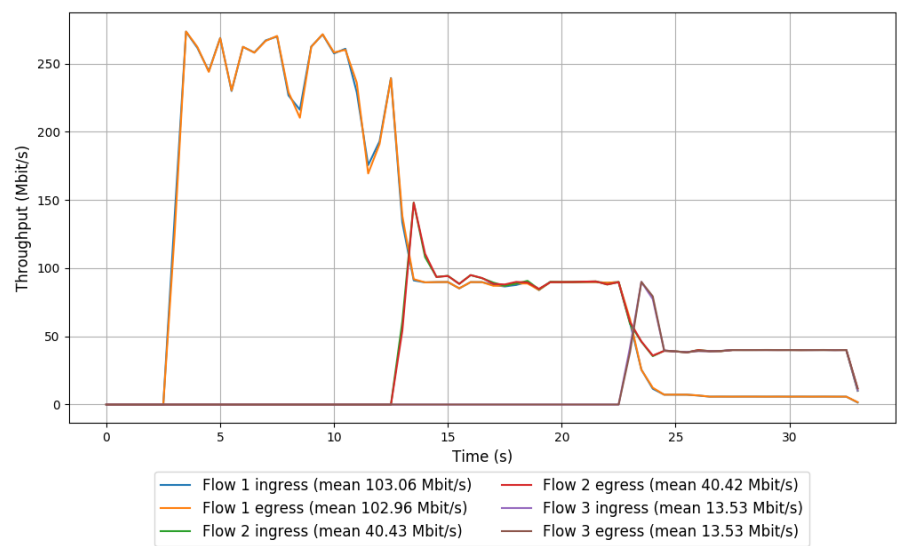
-- Flow 3:

Average throughput: 13.53 Mbit/s

95th percentile per-packet one-way delay: 20.323 ms

Loss rate: 0.00%

Run 9: Report of TaoVA-100x — Data Link



Run 10: Statistics of TaoVA-100x

Start at: Tue, 04 Jul 2017 21:58:33 +0000

End at: Tue, 04 Jul 2017 21:59:03 +0000

Local clock offset: 0.002 ms

Remote clock offset: -1.624 ms

# Below is generated by plot.py at Wed, 05 Jul 2017 05:03:46 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 157.45 Mbit/s

95th percentile per-packet one-way delay: 20.536 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 115.57 Mbit/s

95th percentile per-packet one-way delay: 20.518 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 39.03 Mbit/s

95th percentile per-packet one-way delay: 20.654 ms

Loss rate: 0.01%

-- Flow 3:

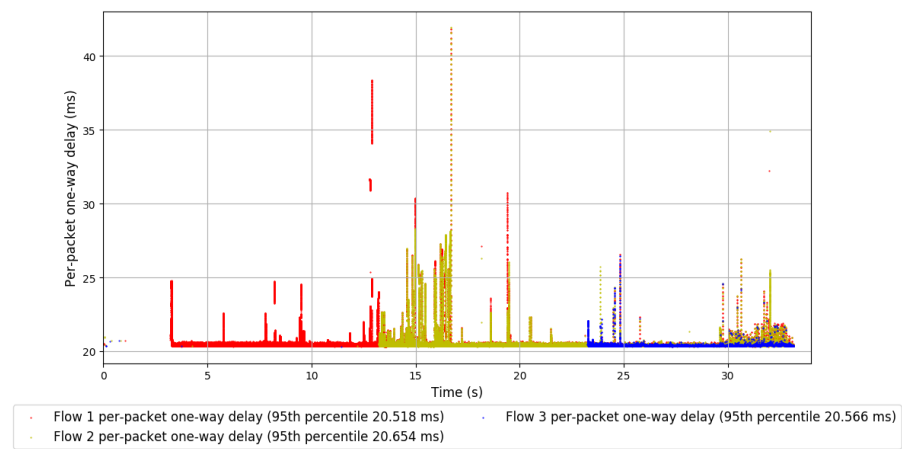
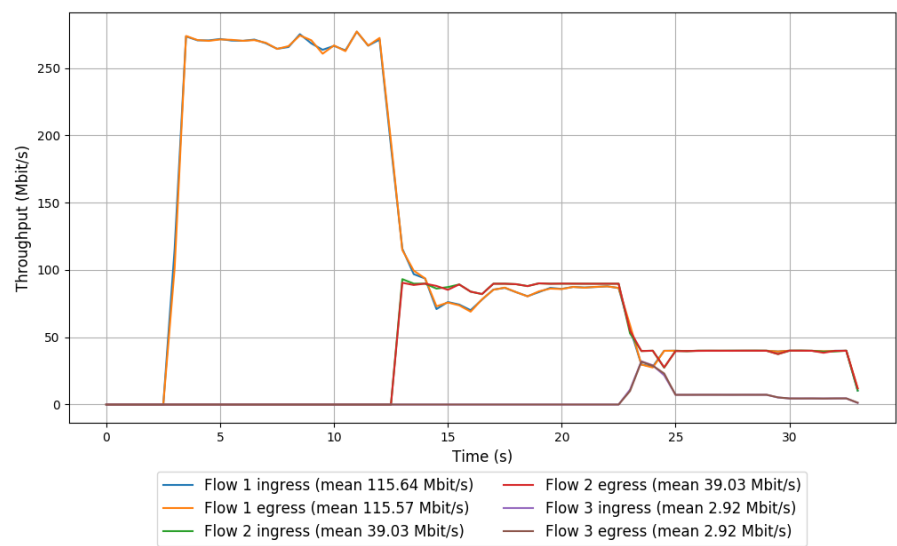
Average throughput: 2.92 Mbit/s

95th percentile per-packet one-way delay: 20.566 ms

Loss rate: 0.01%



Run 10: Report of TaoVA-100x — Data Link



Run 1: Statistics of TCP Vegas

Start at: Tue, 04 Jul 2017 18:42:46 +0000

End at: Tue, 04 Jul 2017 18:43:16 +0000

Local clock offset: 0.55 ms

Remote clock offset: -0.941 ms

# Below is generated by plot.py at Wed, 05 Jul 2017 05:04:21 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 291.80 Mbit/s

95th percentile per-packet one-way delay: 20.731 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 136.86 Mbit/s

95th percentile per-packet one-way delay: 20.743 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 95.40 Mbit/s

95th percentile per-packet one-way delay: 20.698 ms

Loss rate: 0.09%

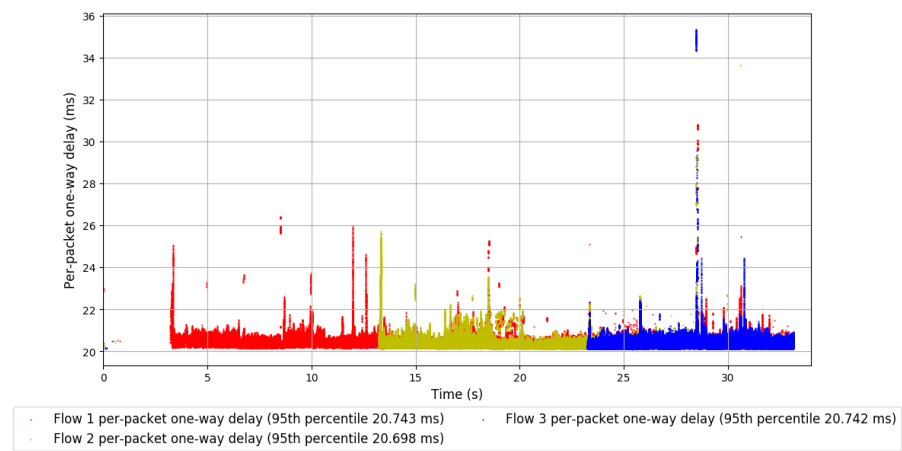
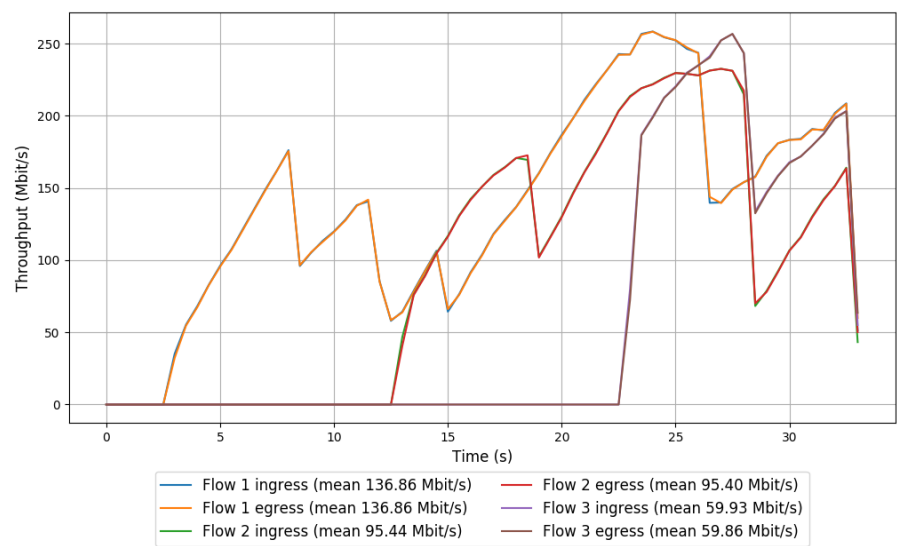
-- Flow 3:

Average throughput: 59.86 Mbit/s

95th percentile per-packet one-way delay: 20.742 ms

Loss rate: 0.16%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: Tue, 04 Jul 2017 19:03:51 +0000

End at: Tue, 04 Jul 2017 19:04:21 +0000

Local clock offset: 0.377 ms

Remote clock offset: -0.893 ms

# Below is generated by plot.py at Wed, 05 Jul 2017 05:04:31 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 316.25 Mbit/s

95th percentile per-packet one-way delay: 20.747 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 168.64 Mbit/s

95th percentile per-packet one-way delay: 20.693 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 89.33 Mbit/s

95th percentile per-packet one-way delay: 20.731 ms

Loss rate: 0.17%

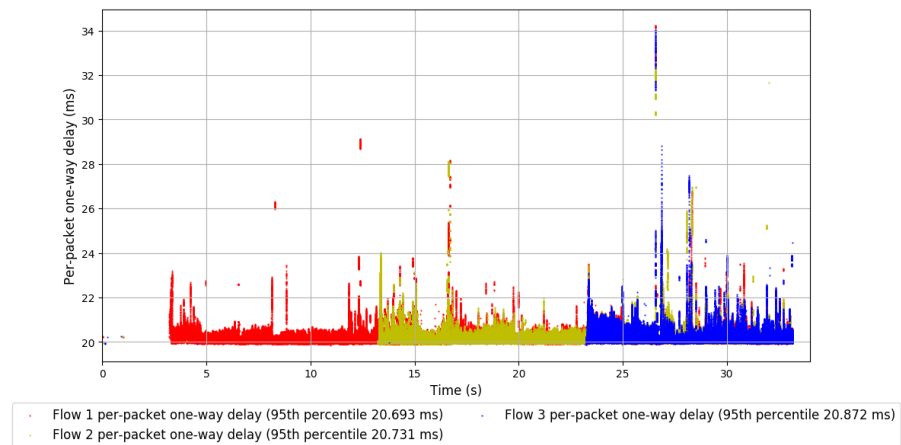
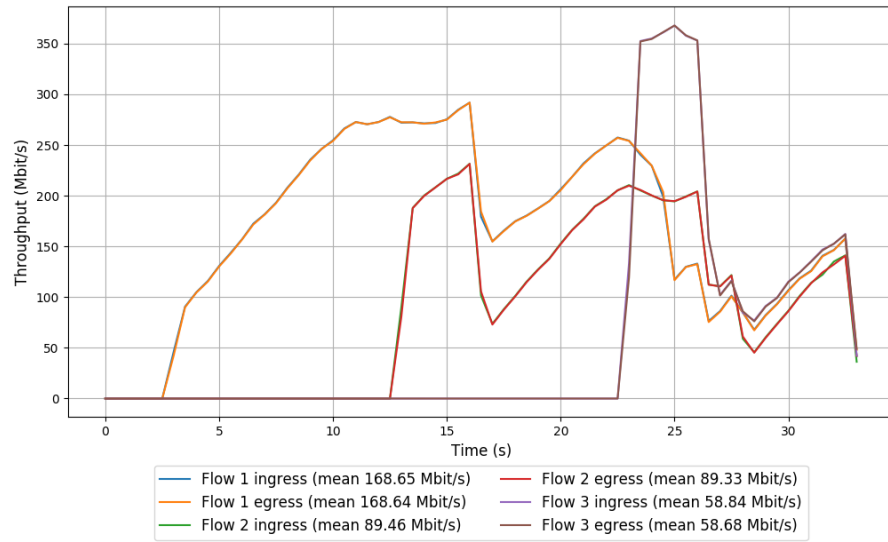
-- Flow 3:

Average throughput: 58.68 Mbit/s

95th percentile per-packet one-way delay: 20.872 ms

Loss rate: 0.26%

## Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: Tue, 04 Jul 2017 19:24:44 +0000

End at: Tue, 04 Jul 2017 19:25:14 +0000

Local clock offset: 0.196 ms

Remote clock offset: -1.241 ms

# Below is generated by plot.py at Wed, 05 Jul 2017 05:04:56 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 272.36 Mbit/s

95th percentile per-packet one-way delay: 20.820 ms

Loss rate: 0.11%

-- Flow 1:

Average throughput: 137.00 Mbit/s

95th percentile per-packet one-way delay: 20.768 ms

Loss rate: 0.11%

-- Flow 2:

Average throughput: 85.52 Mbit/s

95th percentile per-packet one-way delay: 21.013 ms

Loss rate: 0.18%

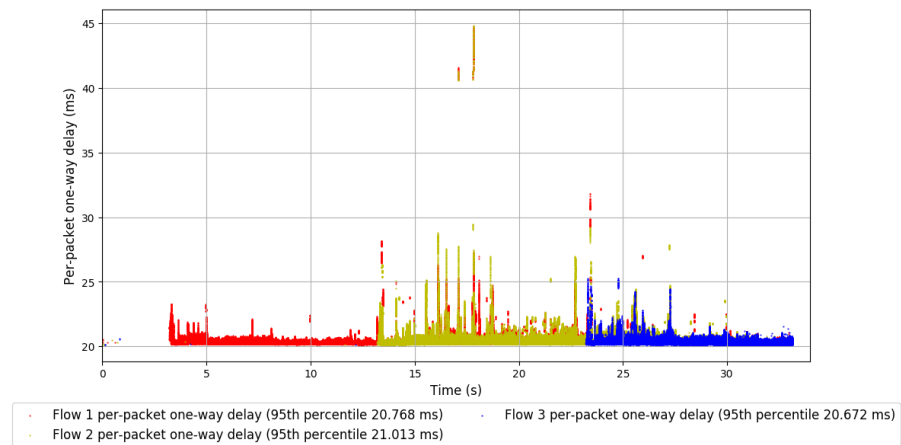
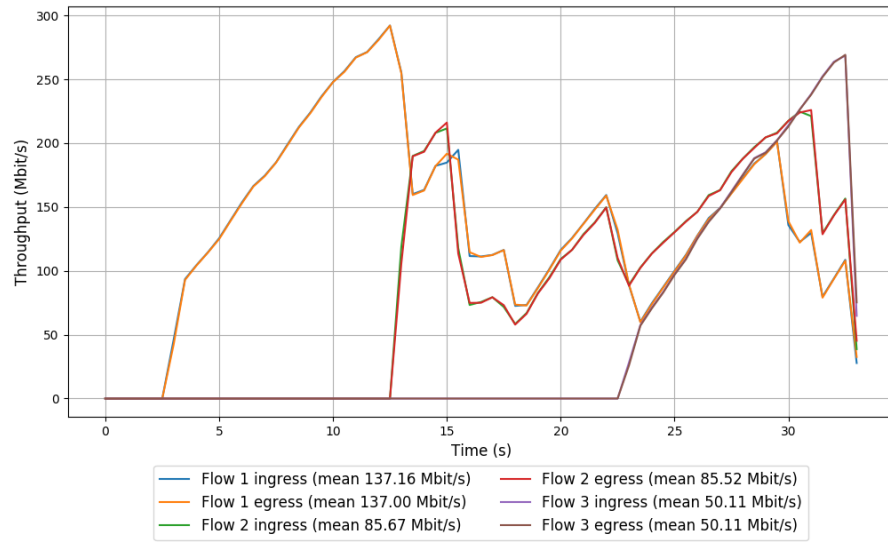
-- Flow 3:

Average throughput: 50.11 Mbit/s

95th percentile per-packet one-way delay: 20.672 ms

Loss rate: 0.01%

### Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: Tue, 04 Jul 2017 19:45:36 +0000

End at: Tue, 04 Jul 2017 19:46:06 +0000

Local clock offset: 0.053 ms

Remote clock offset: -1.273 ms

# Below is generated by plot.py at Wed, 05 Jul 2017 05:05:19 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 351.44 Mbit/s

95th percentile per-packet one-way delay: 20.982 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 146.70 Mbit/s

95th percentile per-packet one-way delay: 20.773 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 120.53 Mbit/s

95th percentile per-packet one-way delay: 20.939 ms

Loss rate: 0.11%

-- Flow 3:

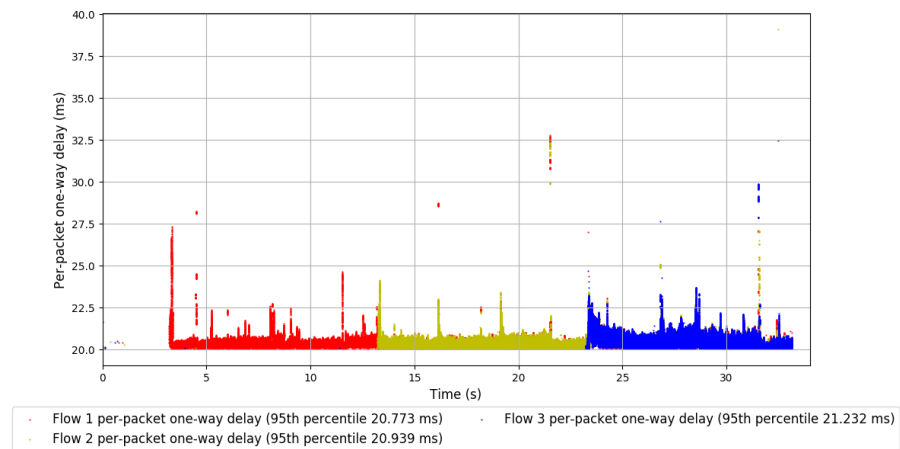
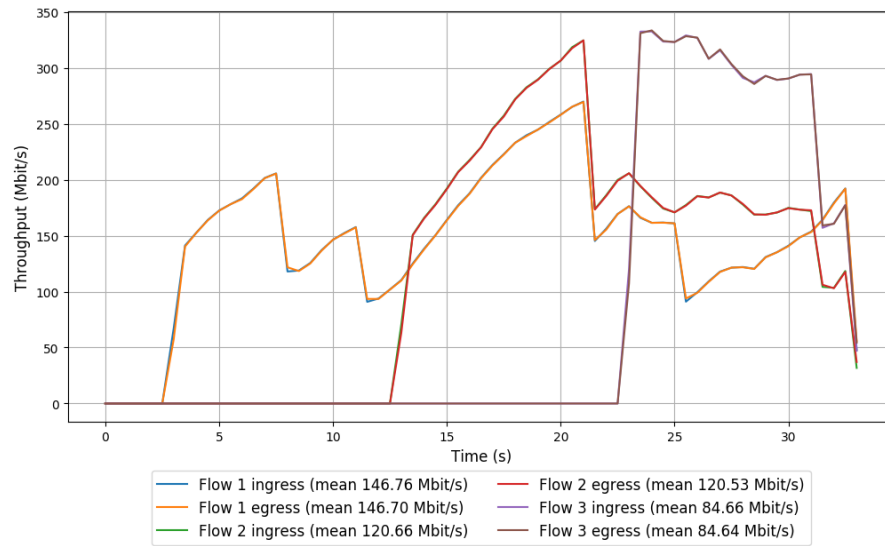
Average throughput: 84.64 Mbit/s

95th percentile per-packet one-way delay: 21.232 ms

Loss rate: 0.06%



# Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: Tue, 04 Jul 2017 20:06:15 +0000

End at: Tue, 04 Jul 2017 20:06:45 +0000

Local clock offset: 0.081 ms

Remote clock offset: -0.959 ms

# Below is generated by plot.py at Wed, 05 Jul 2017 05:05:41 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 299.69 Mbit/s

95th percentile per-packet one-way delay: 20.326 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 155.82 Mbit/s

95th percentile per-packet one-way delay: 20.332 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 104.48 Mbit/s

95th percentile per-packet one-way delay: 20.322 ms

Loss rate: 0.06%

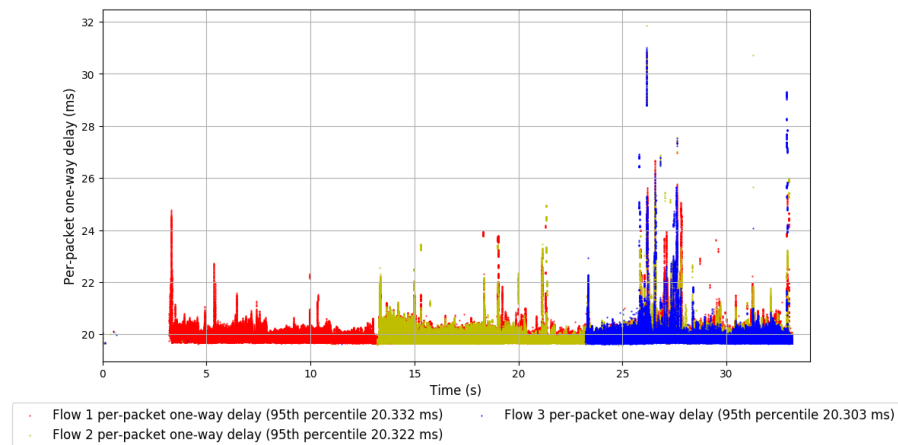
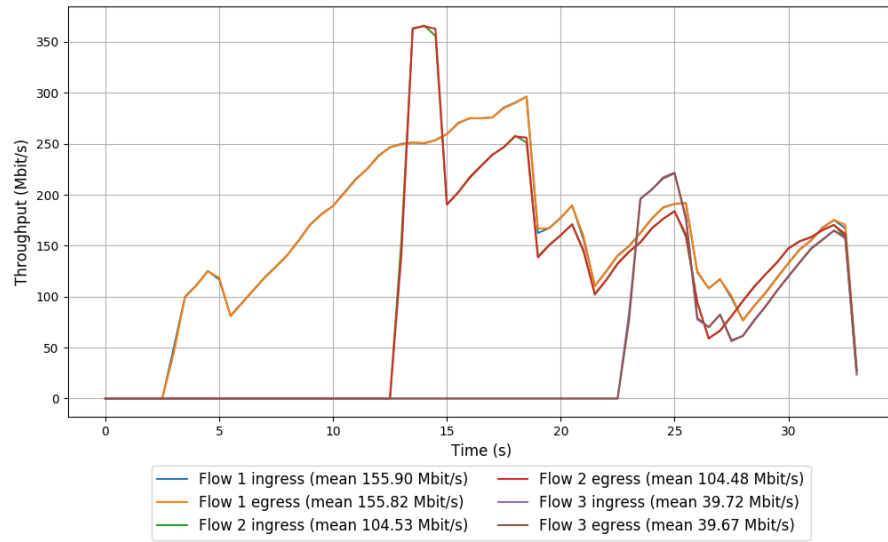
-- Flow 3:

Average throughput: 39.67 Mbit/s

95th percentile per-packet one-way delay: 20.303 ms

Loss rate: 0.14%

## Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: Tue, 04 Jul 2017 20:27:13 +0000

End at: Tue, 04 Jul 2017 20:27:43 +0000

Local clock offset: 0.045 ms

Remote clock offset: -0.996 ms

# Below is generated by plot.py at Wed, 05 Jul 2017 05:05:58 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 271.31 Mbit/s

95th percentile per-packet one-way delay: 20.258 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 155.41 Mbit/s

95th percentile per-packet one-way delay: 20.249 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 74.26 Mbit/s

95th percentile per-packet one-way delay: 20.260 ms

Loss rate: 0.03%

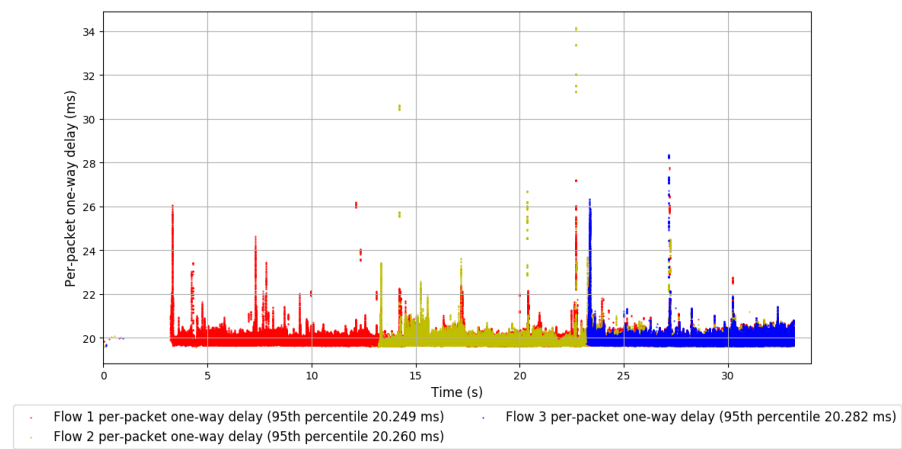
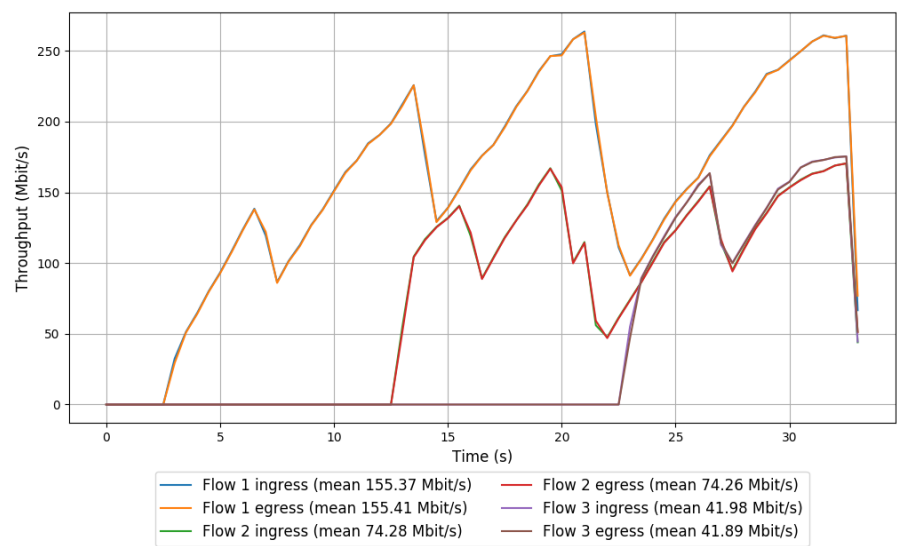
-- Flow 3:

Average throughput: 41.89 Mbit/s

95th percentile per-packet one-way delay: 20.282 ms

Loss rate: 0.21%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: Tue, 04 Jul 2017 20:48:07 +0000

End at: Tue, 04 Jul 2017 20:48:37 +0000

Local clock offset: 0.092 ms

Remote clock offset: -0.987 ms

# Below is generated by plot.py at Wed, 05 Jul 2017 05:06:16 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 233.09 Mbit/s

95th percentile per-packet one-way delay: 20.496 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 113.66 Mbit/s

95th percentile per-packet one-way delay: 20.548 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 73.00 Mbit/s

95th percentile per-packet one-way delay: 20.626 ms

Loss rate: 0.14%

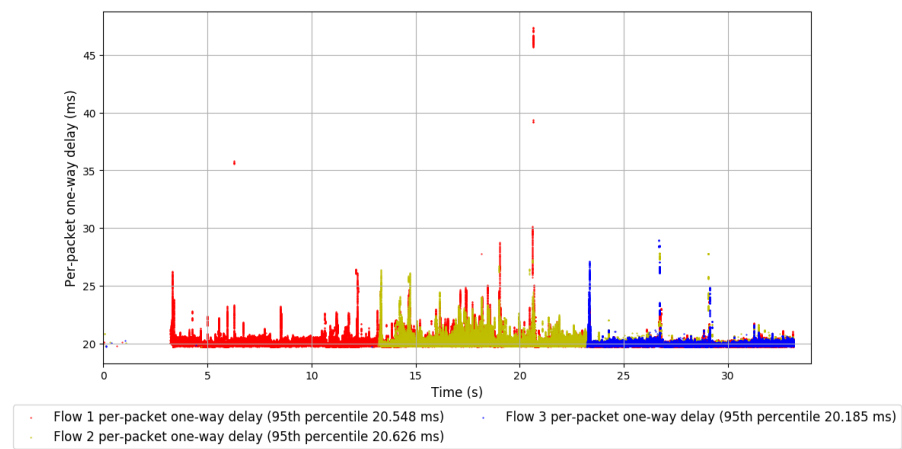
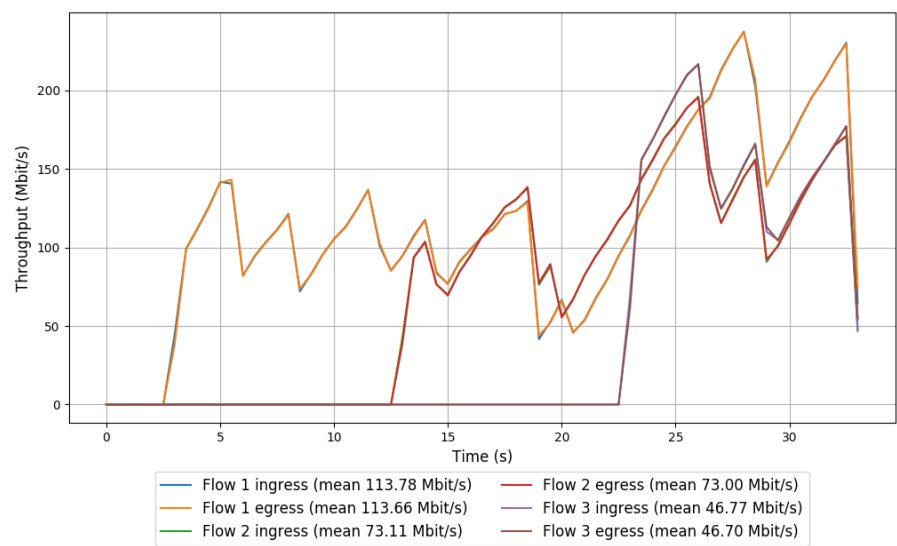
-- Flow 3:

Average throughput: 46.70 Mbit/s

95th percentile per-packet one-way delay: 20.185 ms

Loss rate: 0.14%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: Tue, 04 Jul 2017 21:08:43 +0000

End at: Tue, 04 Jul 2017 21:09:13 +0000

Local clock offset: -0.116 ms

Remote clock offset: -1.043 ms

# Below is generated by plot.py at Wed, 05 Jul 2017 05:06:35 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 259.29 Mbit/s

95th percentile per-packet one-way delay: 20.458 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 117.16 Mbit/s

95th percentile per-packet one-way delay: 20.434 ms

Loss rate: 0.14%

-- Flow 2:

Average throughput: 95.52 Mbit/s

95th percentile per-packet one-way delay: 20.542 ms

Loss rate: 0.07%

-- Flow 3:

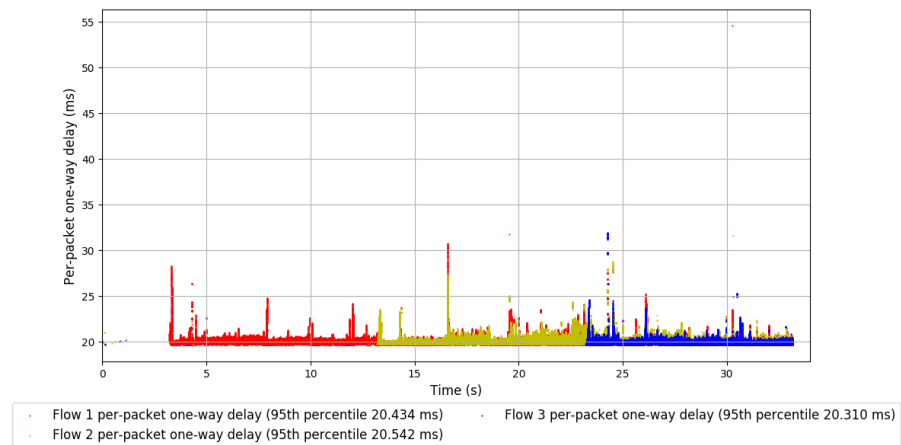
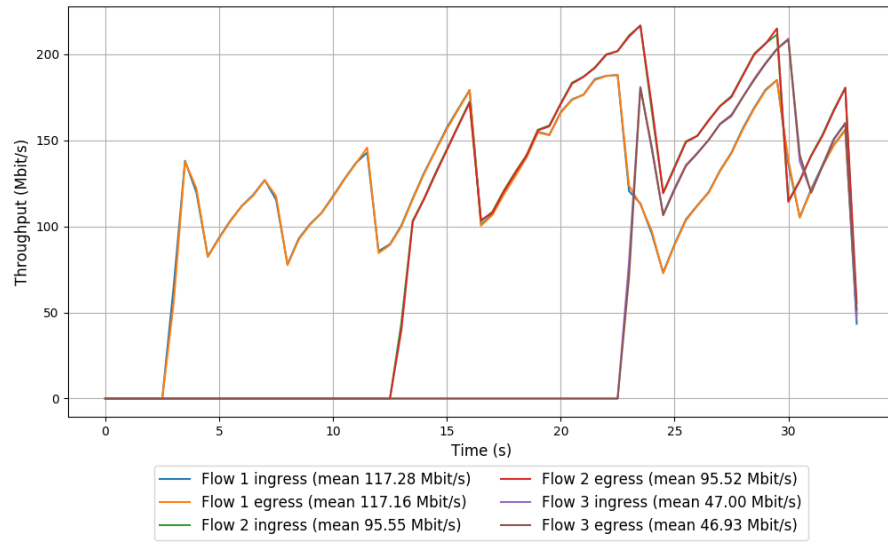
Average throughput: 46.93 Mbit/s

95th percentile per-packet one-way delay: 20.310 ms

Loss rate: 0.15%



## Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: Tue, 04 Jul 2017 21:29:13 +0000

End at: Tue, 04 Jul 2017 21:29:43 +0000

Local clock offset: -0.141 ms

Remote clock offset: -1.403 ms

# Below is generated by plot.py at Wed, 05 Jul 2017 05:07:16 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 375.55 Mbit/s

95th percentile per-packet one-way delay: 20.639 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 192.60 Mbit/s

95th percentile per-packet one-way delay: 20.553 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 133.78 Mbit/s

95th percentile per-packet one-way delay: 20.637 ms

Loss rate: 0.08%

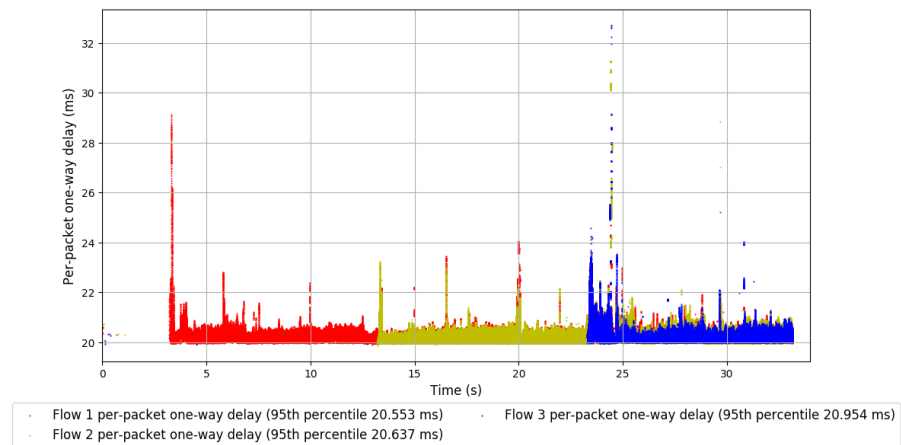
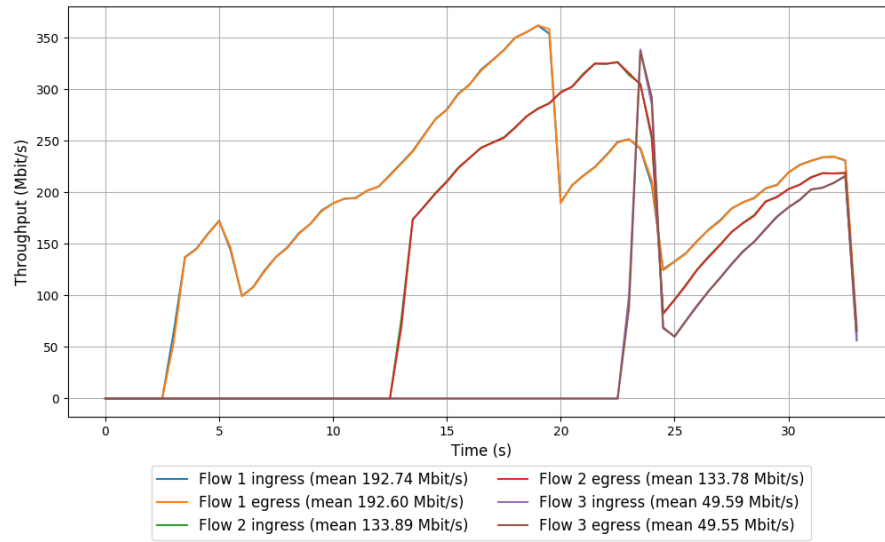
-- Flow 3:

Average throughput: 49.55 Mbit/s

95th percentile per-packet one-way delay: 20.954 ms

Loss rate: 0.10%

# Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: Tue, 04 Jul 2017 21:50:13 +0000

End at: Tue, 04 Jul 2017 21:50:43 +0000

Local clock offset: -0.063 ms

Remote clock offset: -1.698 ms

# Below is generated by plot.py at Wed, 05 Jul 2017 05:07:16 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 239.78 Mbit/s

95th percentile per-packet one-way delay: 20.922 ms

Loss rate: 0.14%

-- Flow 1:

Average throughput: 125.23 Mbit/s

95th percentile per-packet one-way delay: 20.940 ms

Loss rate: 0.14%

-- Flow 2:

Average throughput: 80.60 Mbit/s

95th percentile per-packet one-way delay: 20.860 ms

Loss rate: 0.15%

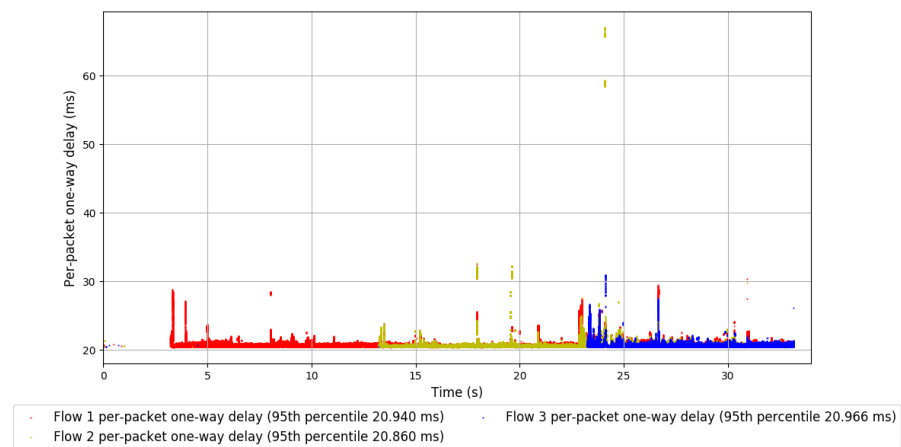
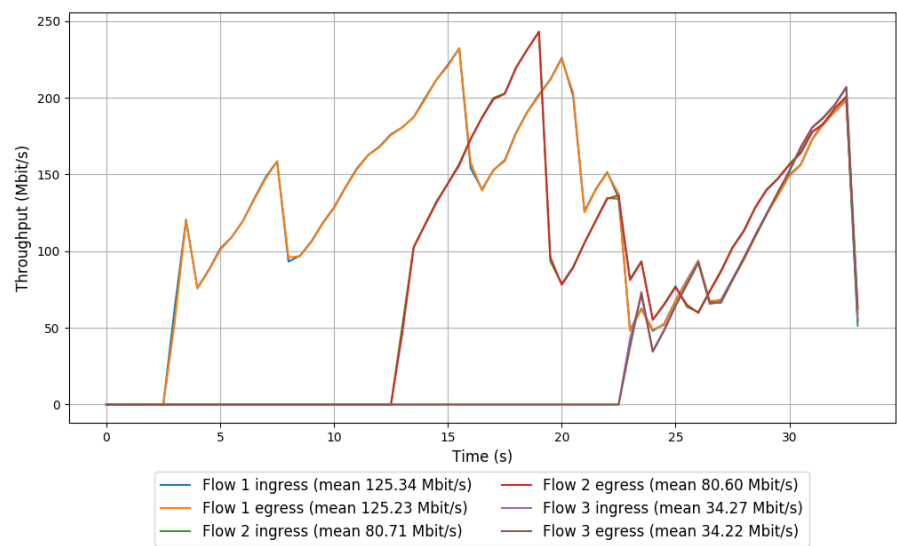
-- Flow 3:

Average throughput: 34.22 Mbit/s

95th percentile per-packet one-way delay: 20.966 ms

Loss rate: 0.15%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: Tue, 04 Jul 2017 18:38:47 +0000

End at: Tue, 04 Jul 2017 18:39:17 +0000

Local clock offset: 0.562 ms

Remote clock offset: -0.907 ms

# Below is generated by plot.py at Wed, 05 Jul 2017 05:07:34 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 156.44 Mbit/s

95th percentile per-packet one-way delay: 24.798 ms

Loss rate: 15.71%

-- Flow 1:

Average throughput: 100.23 Mbit/s

95th percentile per-packet one-way delay: 24.675 ms

Loss rate: 15.31%

-- Flow 2:

Average throughput: 44.56 Mbit/s

95th percentile per-packet one-way delay: 24.739 ms

Loss rate: 15.47%

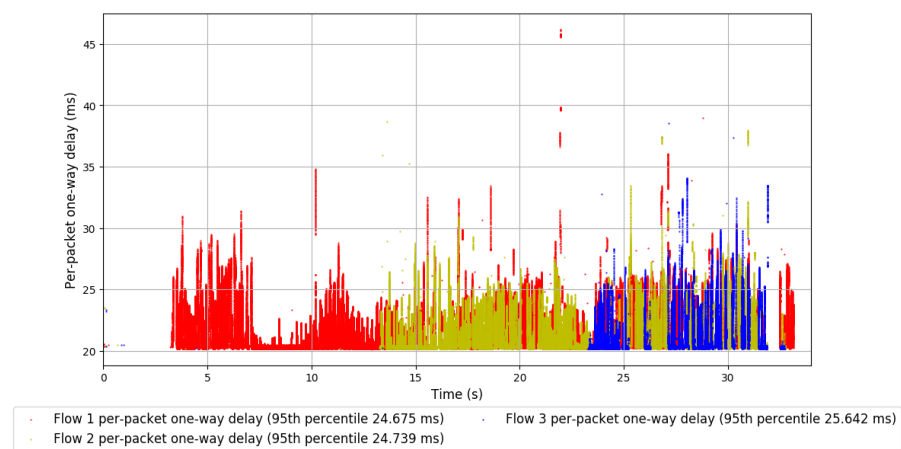
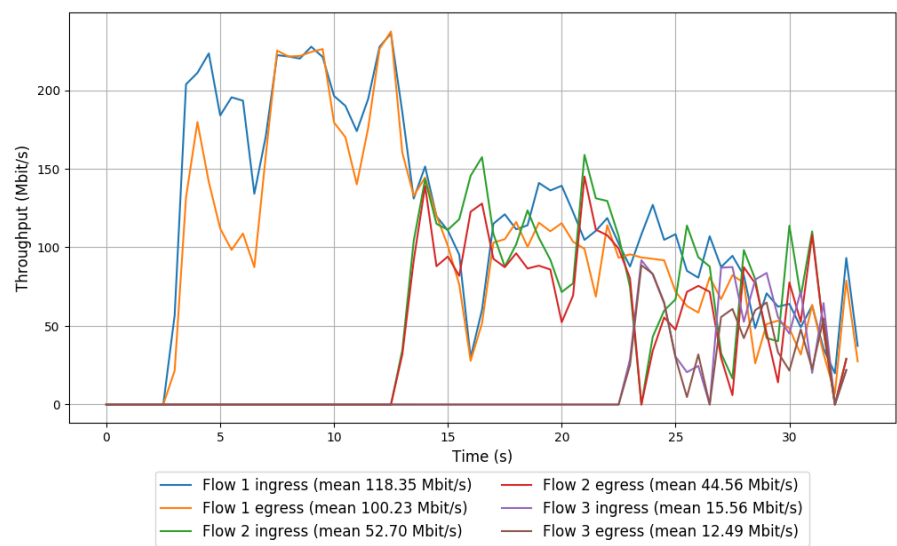
-- Flow 3:

Average throughput: 12.49 Mbit/s

95th percentile per-packet one-way delay: 25.642 ms

Loss rate: 19.69%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: Tue, 04 Jul 2017 18:59:46 +0000

End at: Tue, 04 Jul 2017 19:00:16 +0000

Local clock offset: 0.41 ms

Remote clock offset: -0.762 ms

# Below is generated by plot.py at Wed, 05 Jul 2017 05:07:44 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 199.62 Mbit/s

95th percentile per-packet one-way delay: 22.835 ms

Loss rate: 2.84%

-- Flow 1:

Average throughput: 120.76 Mbit/s

95th percentile per-packet one-way delay: 22.445 ms

Loss rate: 2.17%

-- Flow 2:

Average throughput: 55.37 Mbit/s

95th percentile per-packet one-way delay: 23.396 ms

Loss rate: 4.30%

-- Flow 3:

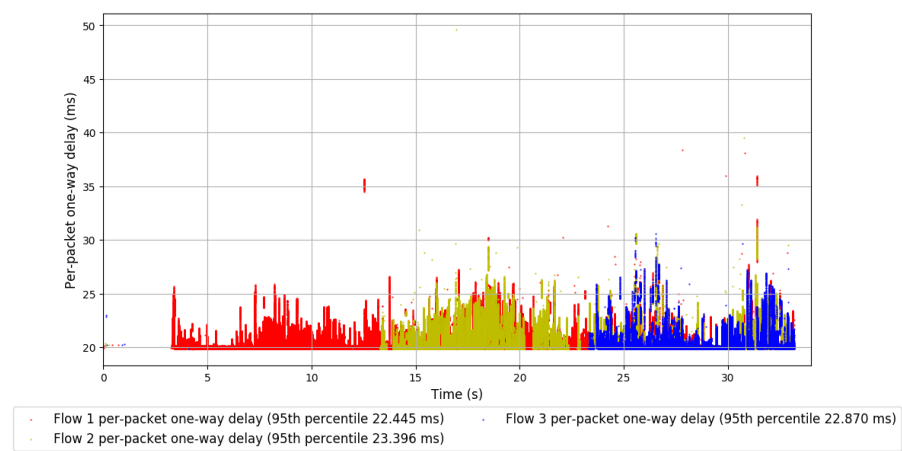
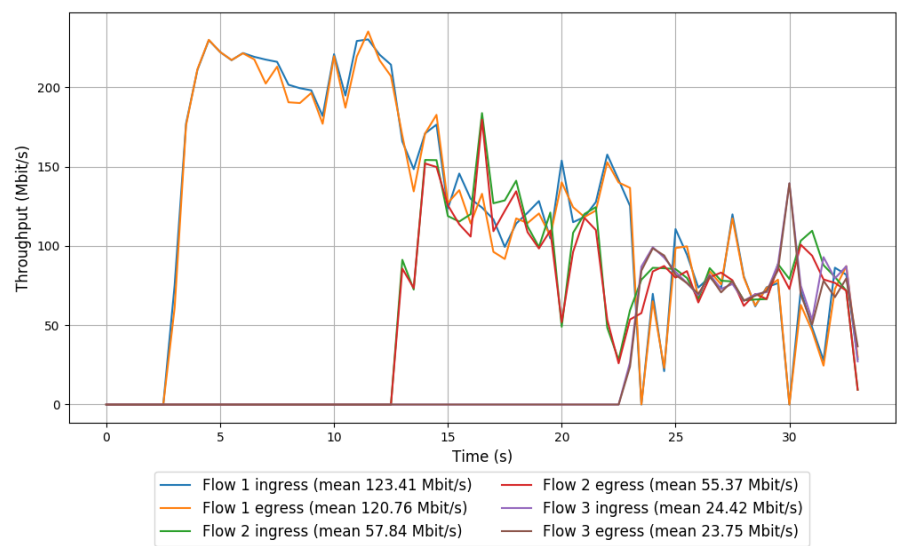
Average throughput: 23.75 Mbit/s

95th percentile per-packet one-way delay: 22.870 ms

Loss rate: 2.73%



Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: Tue, 04 Jul 2017 19:20:42 +0000

End at: Tue, 04 Jul 2017 19:21:12 +0000

Local clock offset: 0.24 ms

Remote clock offset: -1.228 ms

# Below is generated by plot.py at Wed, 05 Jul 2017 05:07:59 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 164.30 Mbit/s

95th percentile per-packet one-way delay: 24.228 ms

Loss rate: 9.60%

-- Flow 1:

Average throughput: 111.50 Mbit/s

95th percentile per-packet one-way delay: 24.170 ms

Loss rate: 8.89%

-- Flow 2:

Average throughput: 29.60 Mbit/s

95th percentile per-packet one-way delay: 24.702 ms

Loss rate: 14.36%

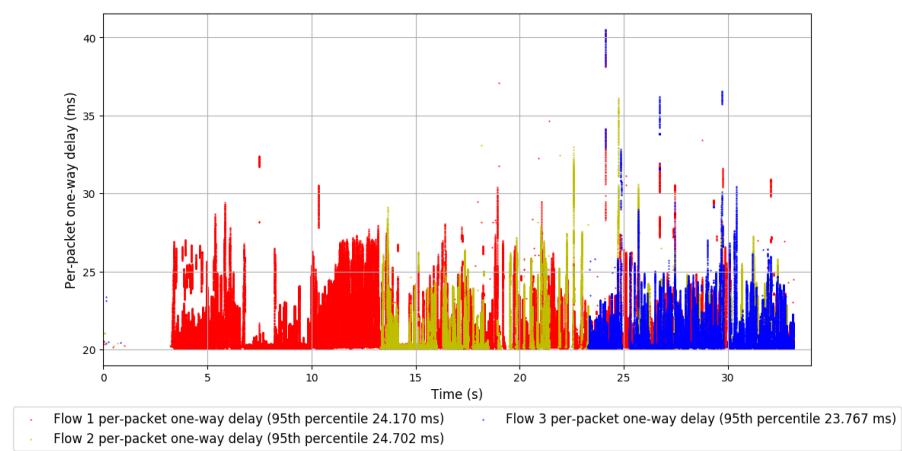
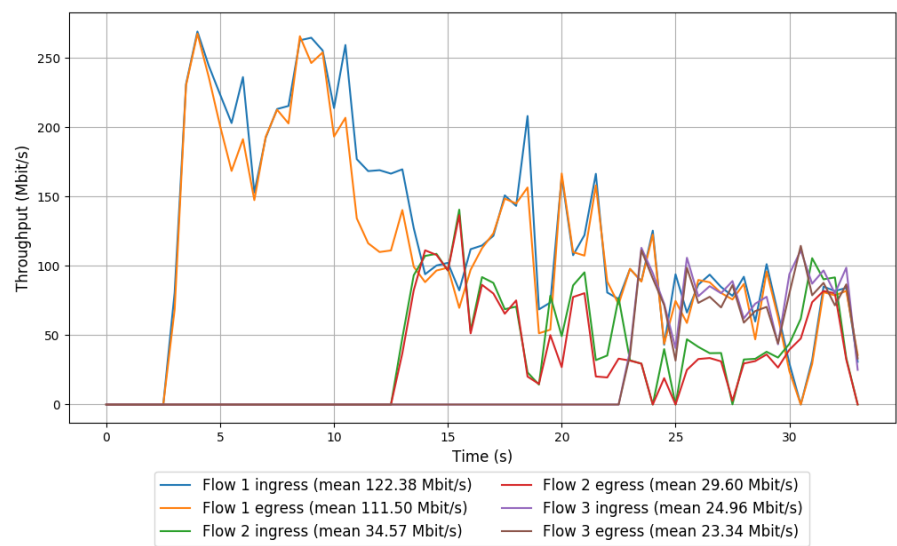
-- Flow 3:

Average throughput: 23.34 Mbit/s

95th percentile per-packet one-way delay: 23.767 ms

Loss rate: 6.50%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: Tue, 04 Jul 2017 19:41:31 +0000

End at: Tue, 04 Jul 2017 19:42:01 +0000

Local clock offset: 0.105 ms

Remote clock offset: -1.443 ms

# Below is generated by plot.py at Wed, 05 Jul 2017 05:08:11 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 185.11 Mbit/s

95th percentile per-packet one-way delay: 23.594 ms

Loss rate: 6.06%

-- Flow 1:

Average throughput: 116.79 Mbit/s

95th percentile per-packet one-way delay: 23.506 ms

Loss rate: 6.77%

-- Flow 2:

Average throughput: 48.68 Mbit/s

95th percentile per-packet one-way delay: 23.436 ms

Loss rate: 4.46%

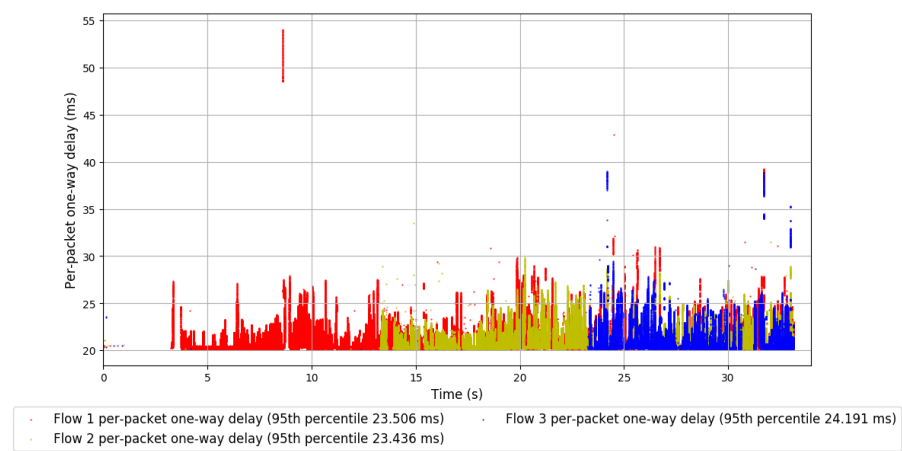
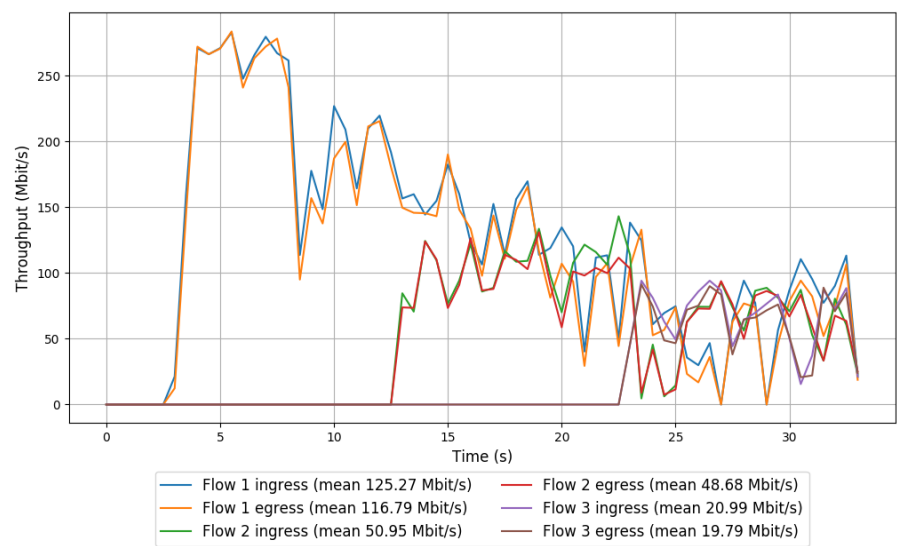
-- Flow 3:

Average throughput: 19.79 Mbit/s

95th percentile per-packet one-way delay: 24.191 ms

Loss rate: 5.72%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: Tue, 04 Jul 2017 20:02:12 +0000

End at: Tue, 04 Jul 2017 20:02:42 +0000

Local clock offset: 0.008 ms

Remote clock offset: -0.975 ms

# Below is generated by plot.py at Wed, 05 Jul 2017 05:08:26 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 181.94 Mbit/s

95th percentile per-packet one-way delay: 22.926 ms

Loss rate: 4.68%

-- Flow 1:

Average throughput: 104.25 Mbit/s

95th percentile per-packet one-way delay: 23.500 ms

Loss rate: 6.64%

-- Flow 2:

Average throughput: 59.46 Mbit/s

95th percentile per-packet one-way delay: 22.266 ms

Loss rate: 1.76%

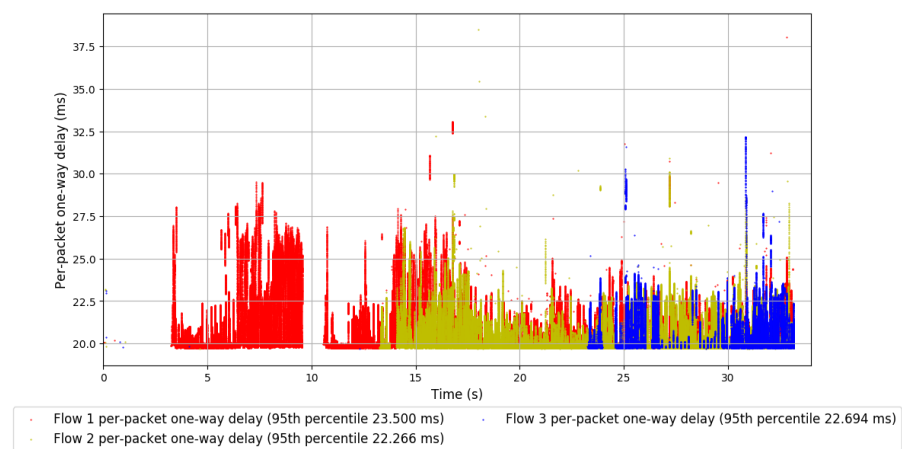
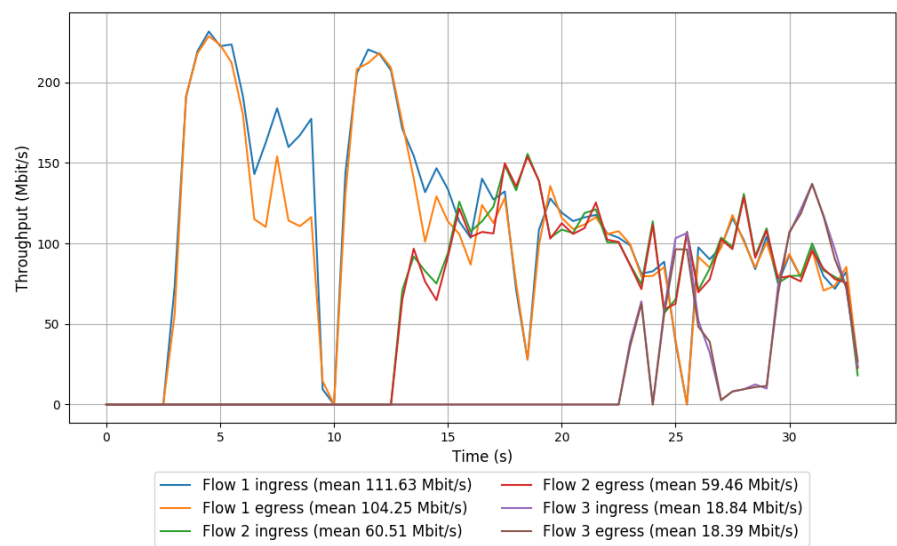
-- Flow 3:

Average throughput: 18.39 Mbit/s

95th percentile per-packet one-way delay: 22.694 ms

Loss rate: 2.42%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: Tue, 04 Jul 2017 20:23:13 +0000

End at: Tue, 04 Jul 2017 20:23:43 +0000

Local clock offset: 0.041 ms

Remote clock offset: -0.921 ms

# Below is generated by plot.py at Wed, 05 Jul 2017 05:08:37 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 162.95 Mbit/s

95th percentile per-packet one-way delay: 24.328 ms

Loss rate: 11.02%

-- Flow 1:

Average throughput: 96.83 Mbit/s

95th percentile per-packet one-way delay: 24.392 ms

Loss rate: 10.86%

-- Flow 2:

Average throughput: 46.67 Mbit/s

95th percentile per-packet one-way delay: 24.203 ms

Loss rate: 11.55%

-- Flow 3:

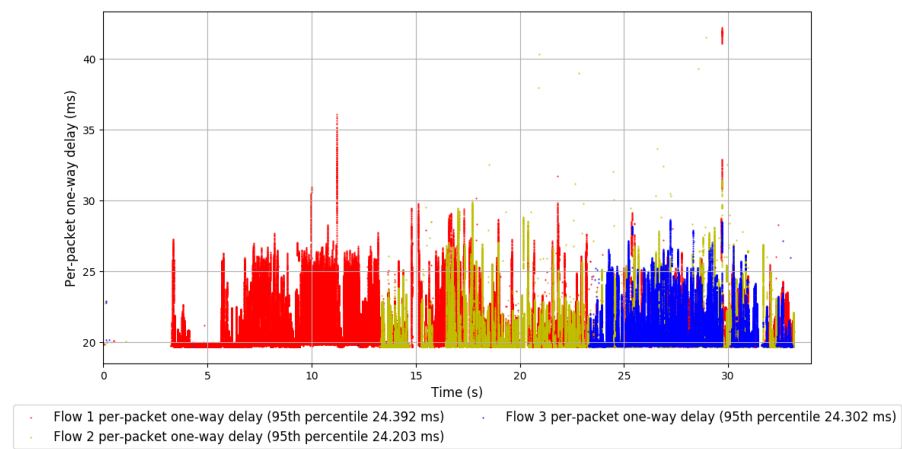
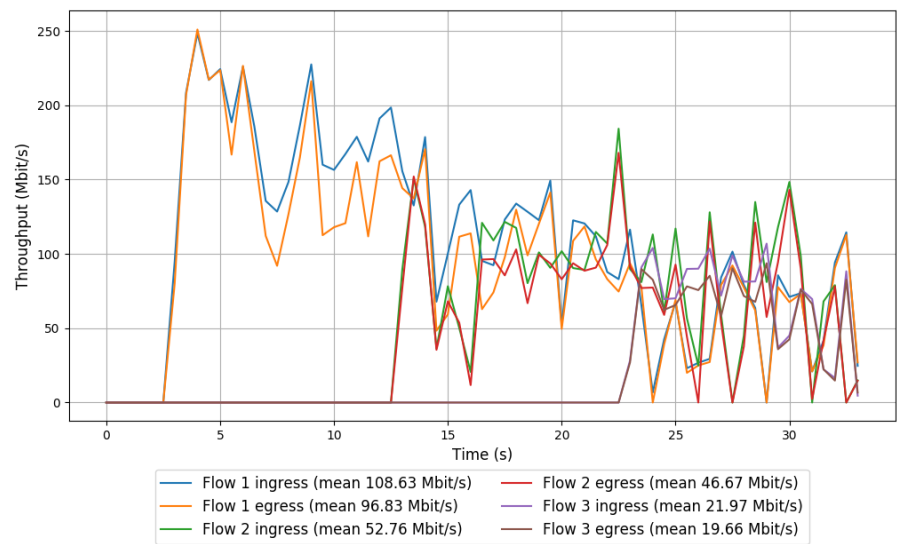
Average throughput: 19.66 Mbit/s

95th percentile per-packet one-way delay: 24.302 ms

Loss rate: 10.49%



Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: Tue, 04 Jul 2017 20:44:05 +0000

End at: Tue, 04 Jul 2017 20:44:35 +0000

Local clock offset: 0.1 ms

Remote clock offset: -0.859 ms

# Below is generated by plot.py at Wed, 05 Jul 2017 05:08:51 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 162.26 Mbit/s

95th percentile per-packet one-way delay: 23.849 ms

Loss rate: 12.41%

-- Flow 1:

Average throughput: 98.83 Mbit/s

95th percentile per-packet one-way delay: 24.538 ms

Loss rate: 16.58%

-- Flow 2:

Average throughput: 48.18 Mbit/s

95th percentile per-packet one-way delay: 23.402 ms

Loss rate: 6.40%

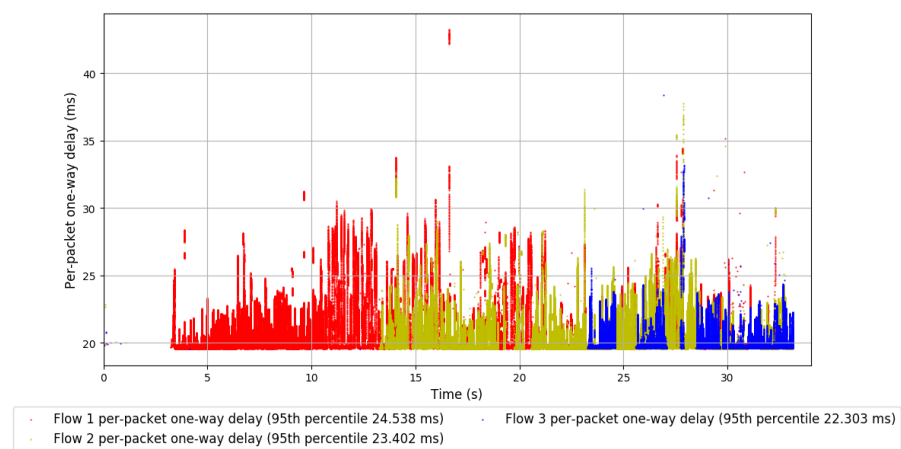
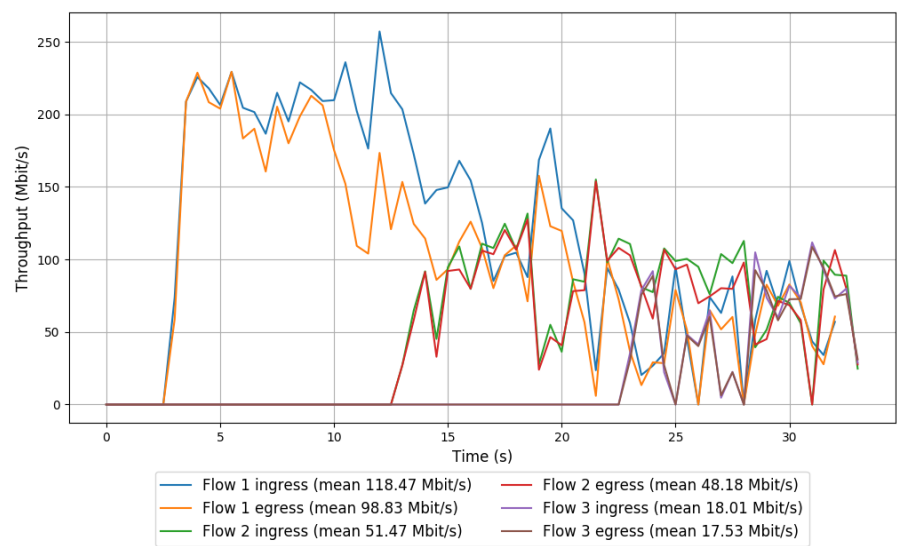
-- Flow 3:

Average throughput: 17.53 Mbit/s

95th percentile per-packet one-way delay: 22.303 ms

Loss rate: 2.71%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: Tue, 04 Jul 2017 21:04:41 +0000

End at: Tue, 04 Jul 2017 21:05:11 +0000

Local clock offset: -0.089 ms

Remote clock offset: -0.965 ms

# Below is generated by plot.py at Wed, 05 Jul 2017 05:09:03 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 174.95 Mbit/s

95th percentile per-packet one-way delay: 23.265 ms

Loss rate: 7.11%

-- Flow 1:

Average throughput: 95.92 Mbit/s

95th percentile per-packet one-way delay: 23.508 ms

Loss rate: 9.35%

-- Flow 2:

Average throughput: 59.65 Mbit/s

95th percentile per-packet one-way delay: 22.886 ms

Loss rate: 3.94%

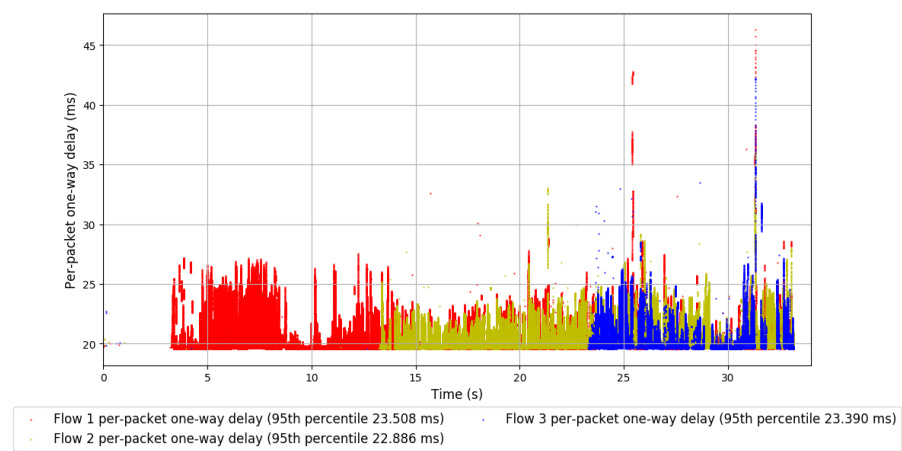
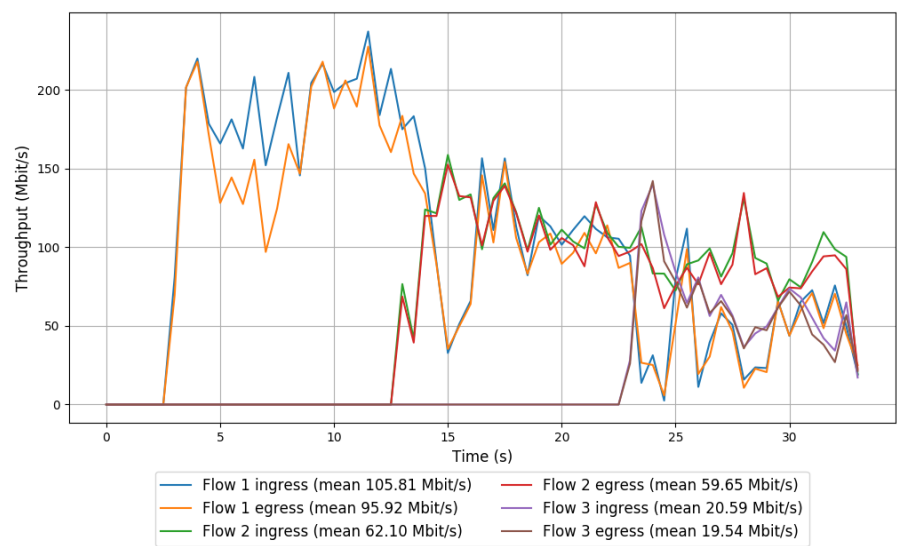
-- Flow 3:

Average throughput: 19.54 Mbit/s

95th percentile per-packet one-way delay: 23.390 ms

Loss rate: 5.14%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: Tue, 04 Jul 2017 21:25:09 +0000

End at: Tue, 04 Jul 2017 21:25:39 +0000

Local clock offset: -0.091 ms

Remote clock offset: -1.296 ms

# Below is generated by plot.py at Wed, 05 Jul 2017 05:09:17 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 166.70 Mbit/s

95th percentile per-packet one-way delay: 24.072 ms

Loss rate: 12.12%

-- Flow 1:

Average throughput: 109.31 Mbit/s

95th percentile per-packet one-way delay: 24.101 ms

Loss rate: 12.43%

-- Flow 2:

Average throughput: 45.45 Mbit/s

95th percentile per-packet one-way delay: 23.494 ms

Loss rate: 9.07%

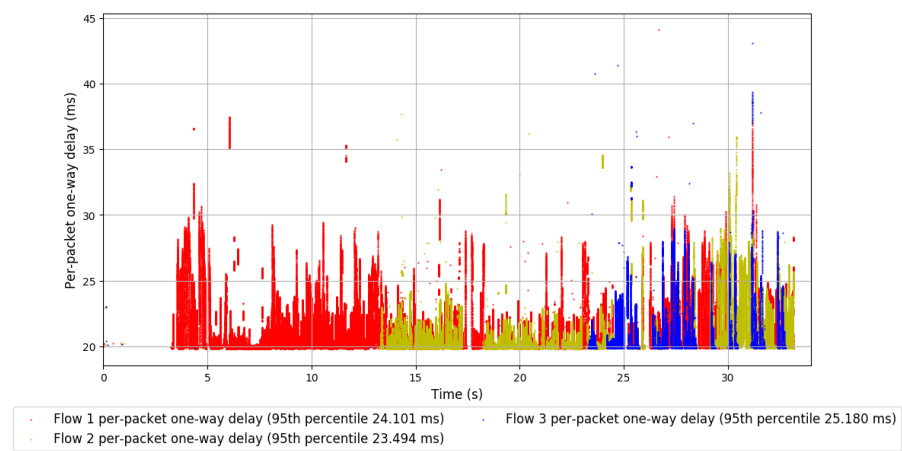
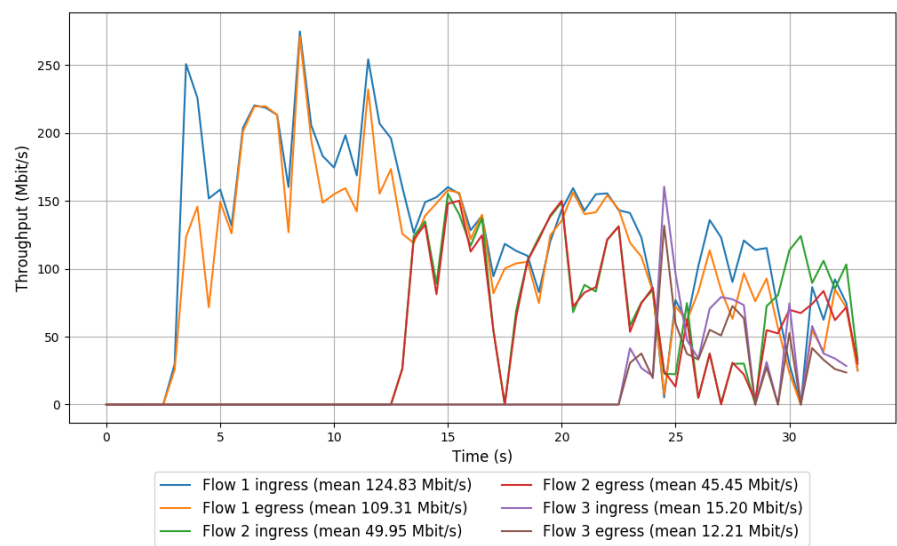
-- Flow 3:

Average throughput: 12.21 Mbit/s

95th percentile per-packet one-way delay: 25.180 ms

Loss rate: 19.69%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: Tue, 04 Jul 2017 21:46:13 +0000

End at: Tue, 04 Jul 2017 21:46:43 +0000

Local clock offset: 0.05 ms

Remote clock offset: -1.5 ms

# Below is generated by plot.py at Wed, 05 Jul 2017 05:09:32 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 156.36 Mbit/s

95th percentile per-packet one-way delay: 25.270 ms

Loss rate: 14.07%

-- Flow 1:

Average throughput: 94.08 Mbit/s

95th percentile per-packet one-way delay: 25.296 ms

Loss rate: 16.24%

-- Flow 2:

Average throughput: 43.01 Mbit/s

95th percentile per-packet one-way delay: 25.724 ms

Loss rate: 12.85%

-- Flow 3:

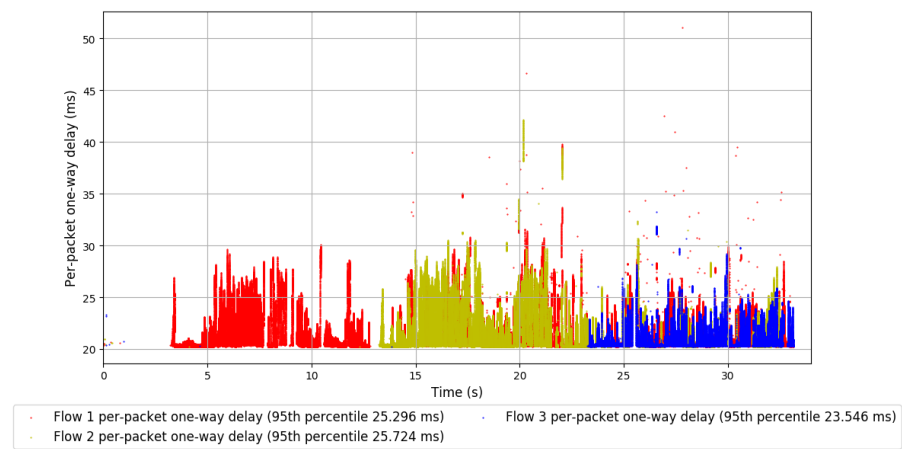
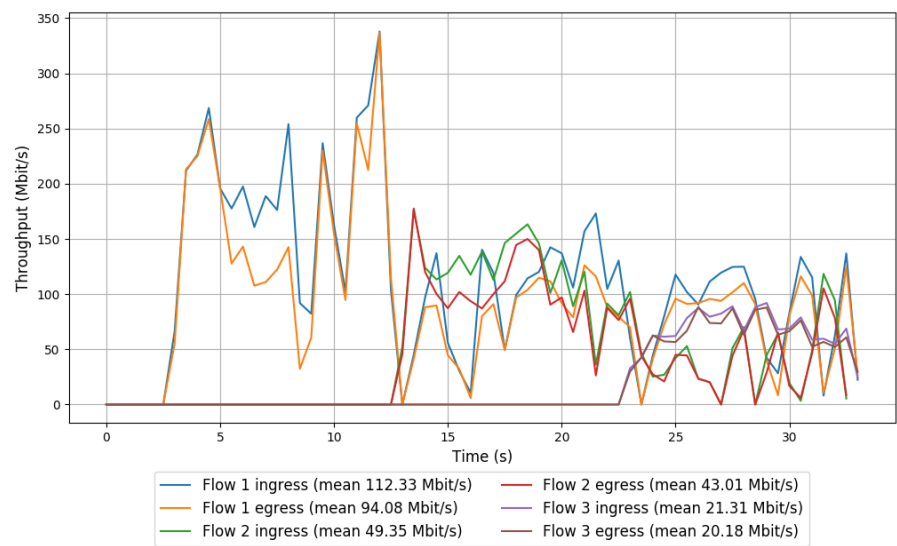
Average throughput: 20.18 Mbit/s

95th percentile per-packet one-way delay: 23.546 ms

Loss rate: 5.32%



Run 10: Report of Verus — Data Link



Run 1: Statistics of WebRTC media

Start at: Tue, 04 Jul 2017 18:45:22 +0000

End at: Tue, 04 Jul 2017 18:45:52 +0000

Local clock offset: 0.447 ms

Remote clock offset: -0.912 ms

# Below is generated by plot.py at Wed, 05 Jul 2017 05:09:32 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 4.08 Mbit/s

95th percentile per-packet one-way delay: 20.568 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.75 Mbit/s

95th percentile per-packet one-way delay: 20.635 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.71 Mbit/s

95th percentile per-packet one-way delay: 20.553 ms

Loss rate: 0.00%

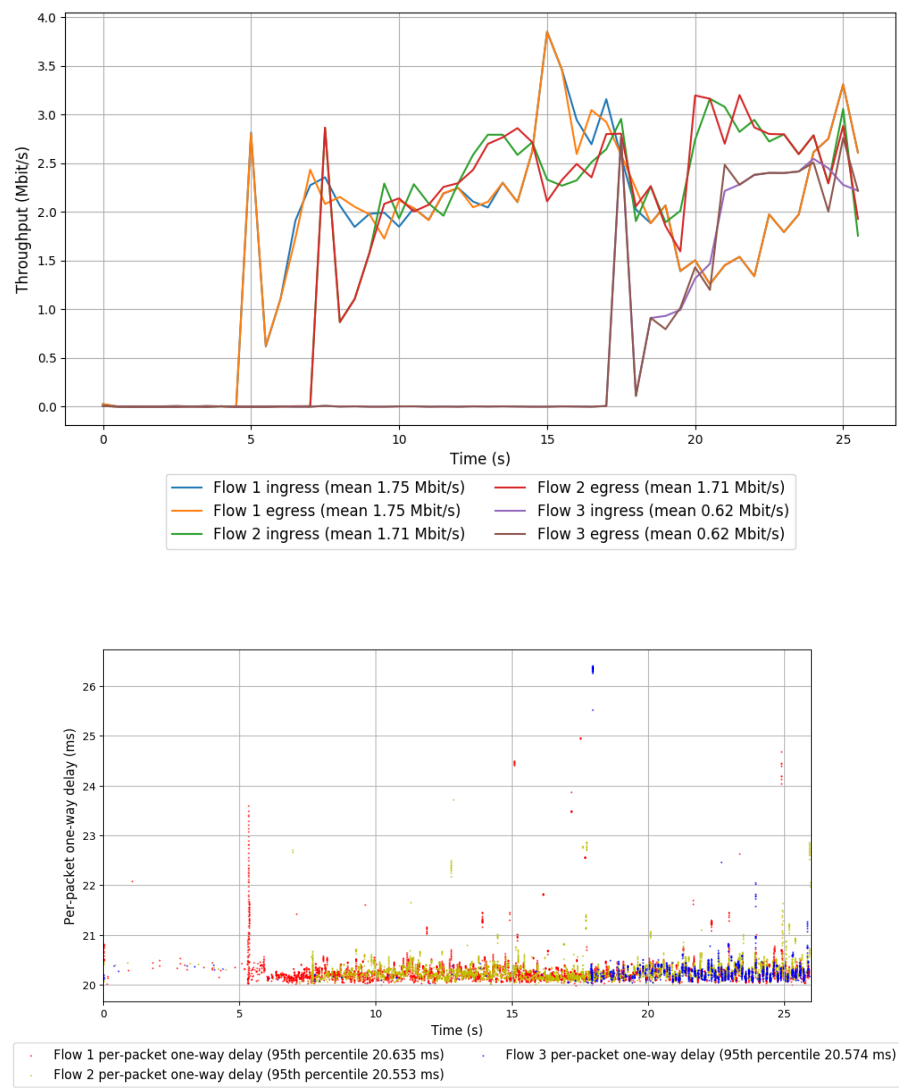
-- Flow 3:

Average throughput: 0.62 Mbit/s

95th percentile per-packet one-way delay: 20.574 ms

Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: Tue, 04 Jul 2017 19:06:29 +0000

End at: Tue, 04 Jul 2017 19:06:59 +0000

Local clock offset: 0.356 ms

Remote clock offset: -0.987 ms

# Below is generated by plot.py at Wed, 05 Jul 2017 05:09:32 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 2.57 Mbit/s

95th percentile per-packet one-way delay: 20.521 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 21.751 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.80 Mbit/s

95th percentile per-packet one-way delay: 20.446 ms

Loss rate: 0.00%

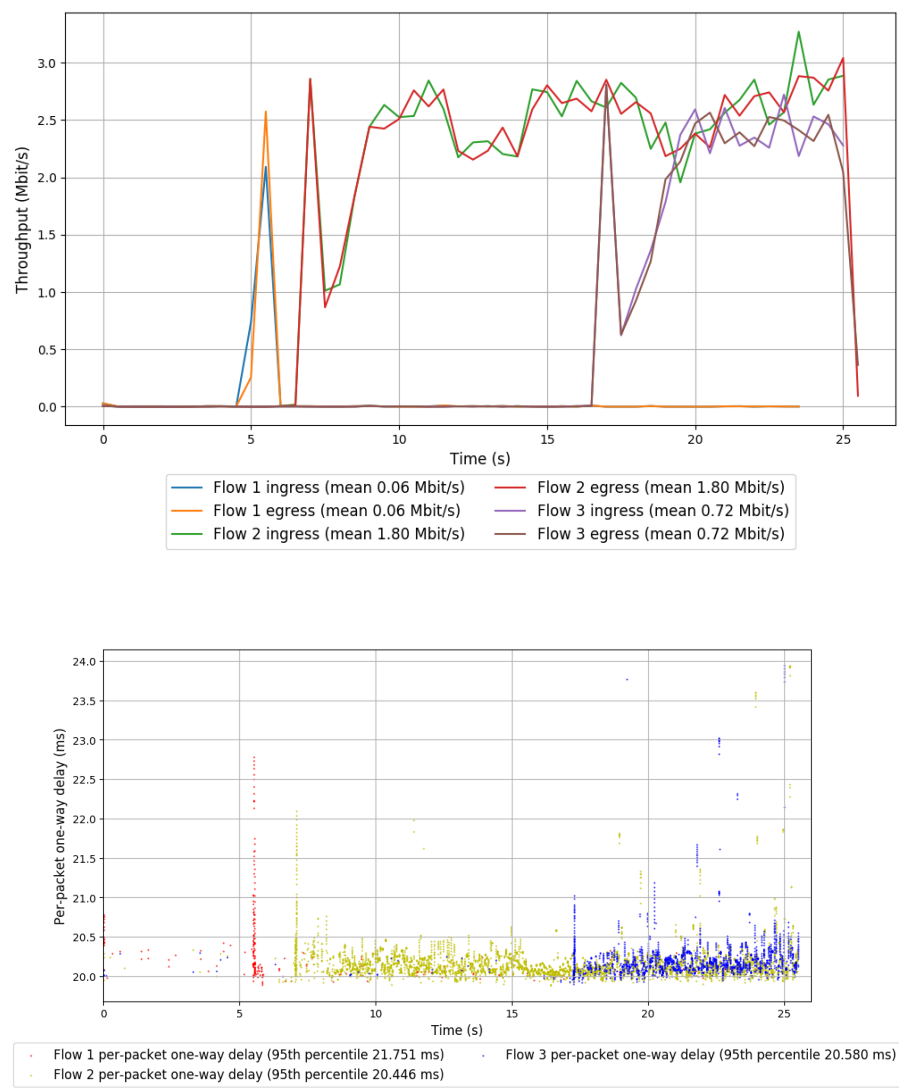
-- Flow 3:

Average throughput: 0.72 Mbit/s

95th percentile per-packet one-way delay: 20.580 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: Tue, 04 Jul 2017 19:27:20 +0000

End at: Tue, 04 Jul 2017 19:27:50 +0000

Local clock offset: 0.189 ms

Remote clock offset: -1.301 ms

# Below is generated by plot.py at Wed, 05 Jul 2017 05:09:32 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 4.14 Mbit/s

95th percentile per-packet one-way delay: 20.911 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.88 Mbit/s

95th percentile per-packet one-way delay: 20.909 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.64 Mbit/s

95th percentile per-packet one-way delay: 20.823 ms

Loss rate: 0.00%

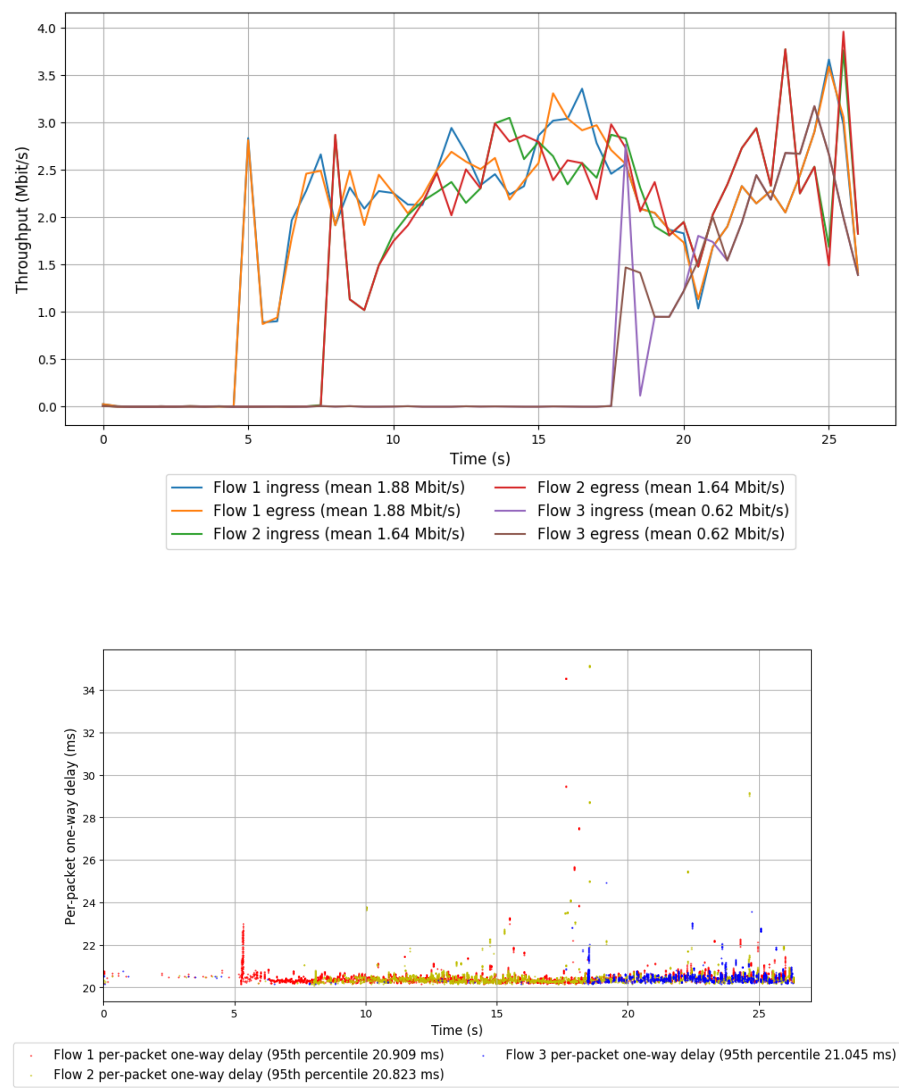
-- Flow 3:

Average throughput: 0.62 Mbit/s

95th percentile per-packet one-way delay: 21.045 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: Tue, 04 Jul 2017 19:48:16 +0000

End at: Tue, 04 Jul 2017 19:48:46 +0000

Local clock offset: 0.138 ms

Remote clock offset: -1.258 ms

# Below is generated by plot.py at Wed, 05 Jul 2017 05:09:32 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 1.92 Mbit/s

95th percentile per-packet one-way delay: 20.593 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 21.749 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.32 Mbit/s

95th percentile per-packet one-way delay: 20.542 ms

Loss rate: 0.00%

-- Flow 3:

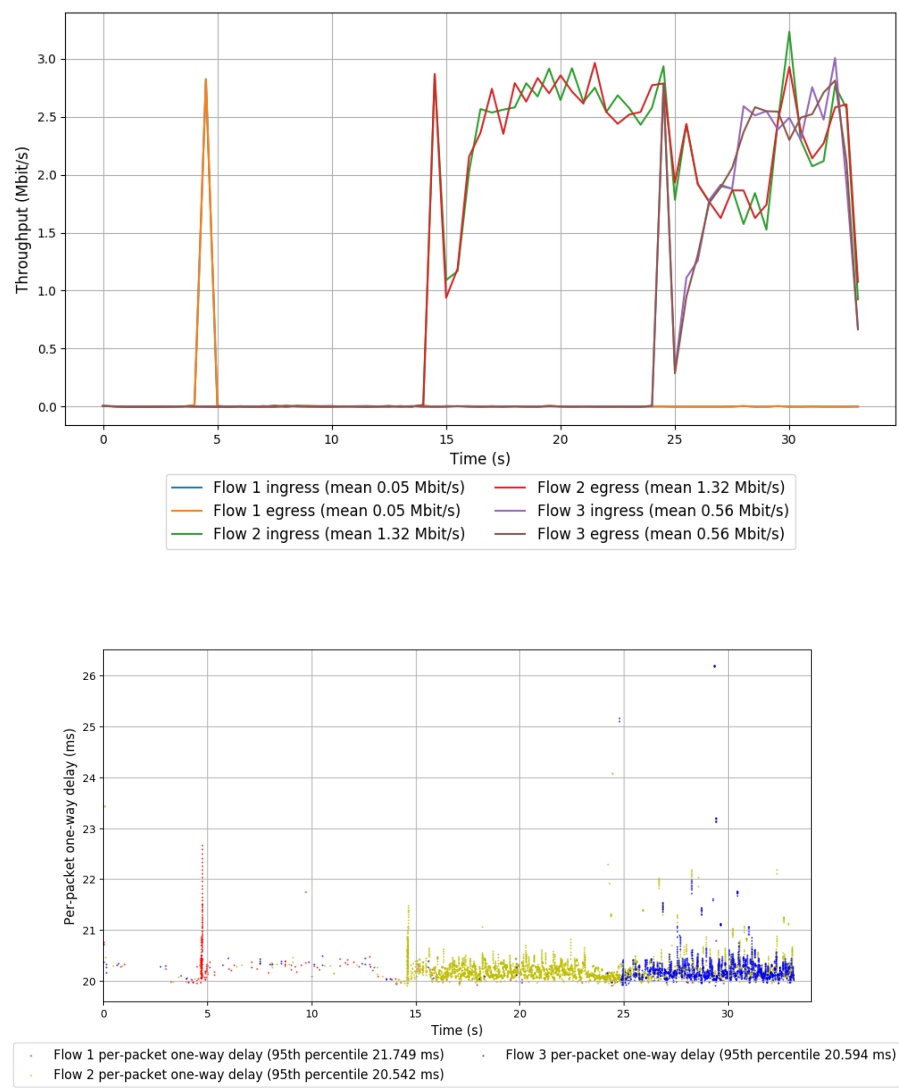
Average throughput: 0.56 Mbit/s

95th percentile per-packet one-way delay: 20.594 ms

Loss rate: 0.00%



Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: Tue, 04 Jul 2017 20:08:52 +0000

End at: Tue, 04 Jul 2017 20:09:22 +0000

Local clock offset: -0.032 ms

Remote clock offset: -0.921 ms

# Below is generated by plot.py at Wed, 05 Jul 2017 05:09:32 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 1.97 Mbit/s

95th percentile per-packet one-way delay: 20.349 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 20.951 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.37 Mbit/s

95th percentile per-packet one-way delay: 20.236 ms

Loss rate: 0.00%

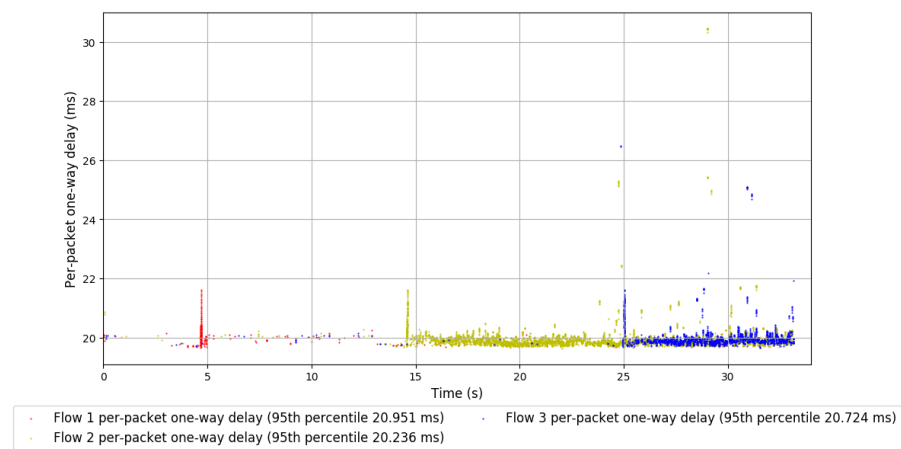
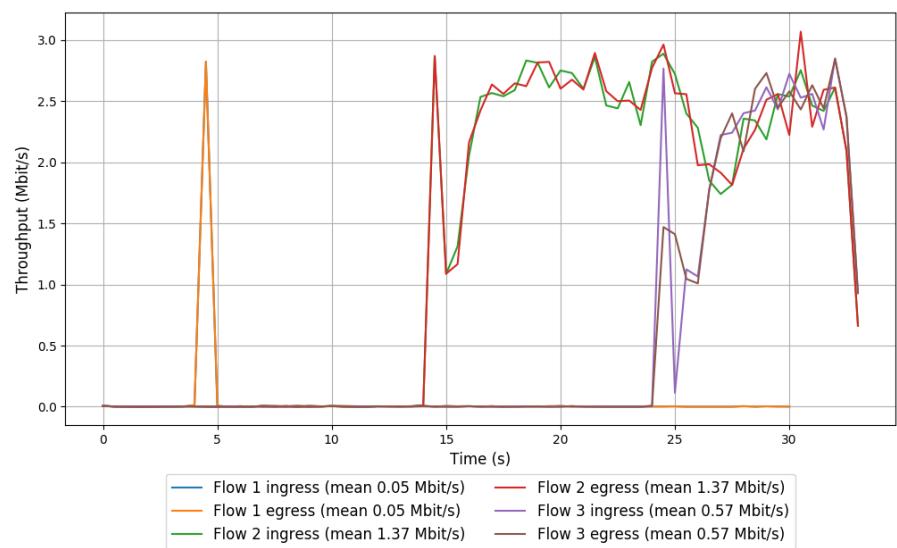
-- Flow 3:

Average throughput: 0.57 Mbit/s

95th percentile per-packet one-way delay: 20.724 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: Tue, 04 Jul 2017 20:29:49 +0000

End at: Tue, 04 Jul 2017 20:30:19 +0000

Local clock offset: -0.041 ms

Remote clock offset: -0.965 ms

# Below is generated by plot.py at Wed, 05 Jul 2017 05:09:32 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 4.23 Mbit/s

95th percentile per-packet one-way delay: 20.177 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.91 Mbit/s

95th percentile per-packet one-way delay: 20.157 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.73 Mbit/s

95th percentile per-packet one-way delay: 20.092 ms

Loss rate: 0.00%

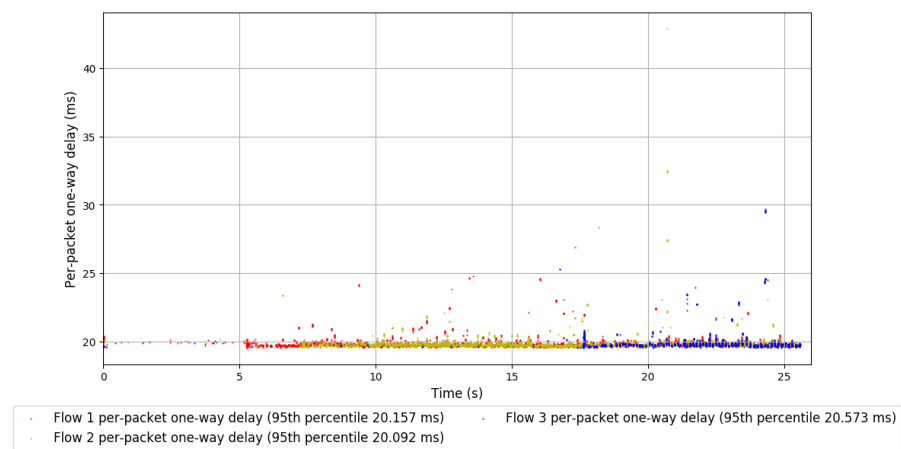
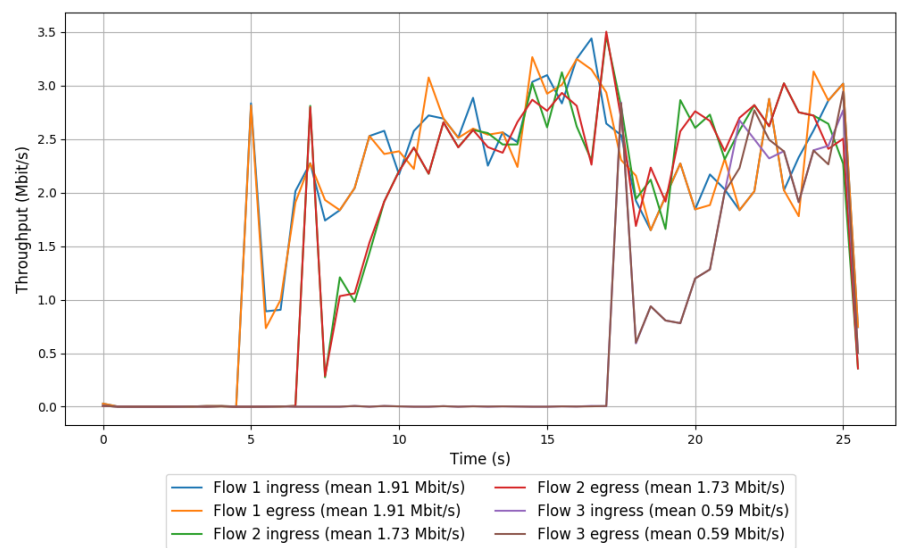
-- Flow 3:

Average throughput: 0.59 Mbit/s

95th percentile per-packet one-way delay: 20.573 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: Tue, 04 Jul 2017 20:50:40 +0000

End at: Tue, 04 Jul 2017 20:51:10 +0000

Local clock offset: 0.036 ms

Remote clock offset: -0.996 ms

# Below is generated by plot.py at Wed, 05 Jul 2017 05:09:32 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 4.26 Mbit/s

95th percentile per-packet one-way delay: 20.347 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 1.93 Mbit/s

95th percentile per-packet one-way delay: 20.309 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.69 Mbit/s

95th percentile per-packet one-way delay: 20.265 ms

Loss rate: 0.00%

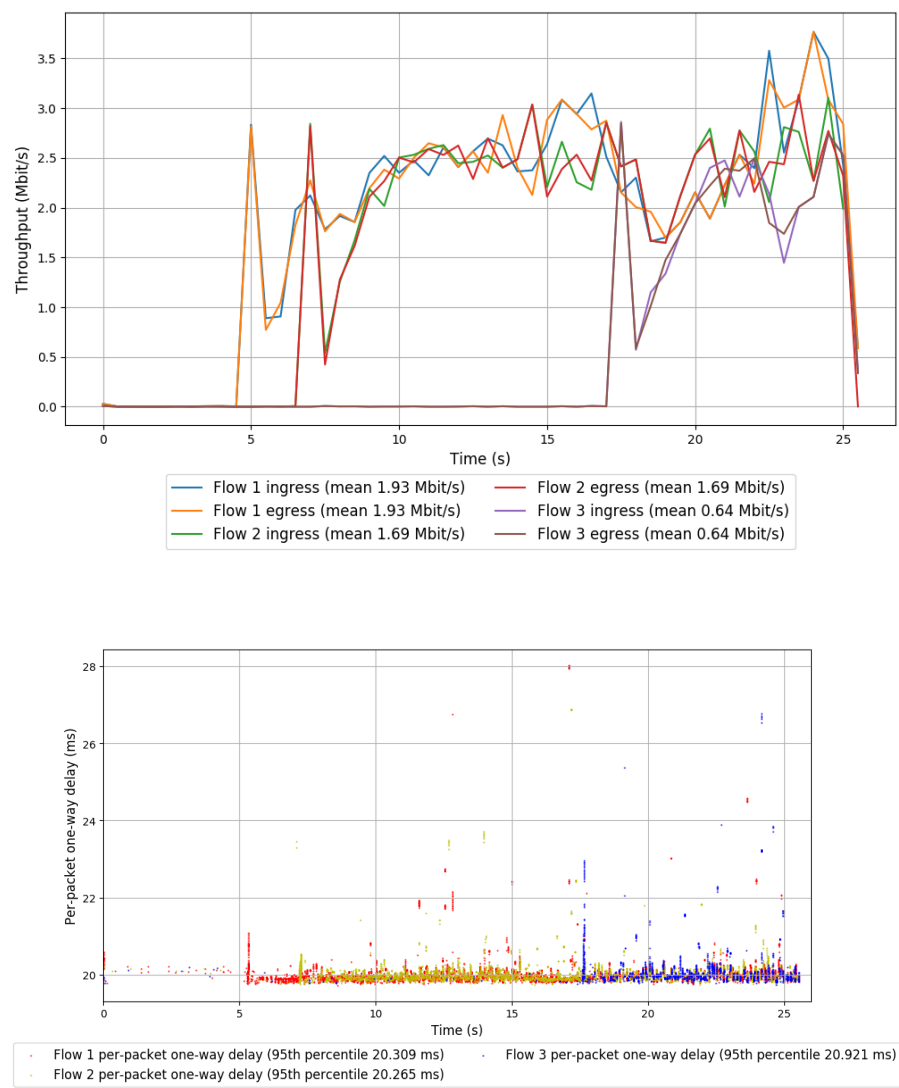
-- Flow 3:

Average throughput: 0.64 Mbit/s

95th percentile per-packet one-way delay: 20.921 ms

Loss rate: 0.06%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: Tue, 04 Jul 2017 21:11:17 +0000

End at: Tue, 04 Jul 2017 21:11:47 +0000

Local clock offset: -0.035 ms

Remote clock offset: -1.11 ms

# Below is generated by plot.py at Wed, 05 Jul 2017 05:09:32 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 4.63 Mbit/s

95th percentile per-packet one-way delay: 20.325 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.22 Mbit/s

95th percentile per-packet one-way delay: 20.292 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.81 Mbit/s

95th percentile per-packet one-way delay: 20.258 ms

Loss rate: 0.00%

-- Flow 3:

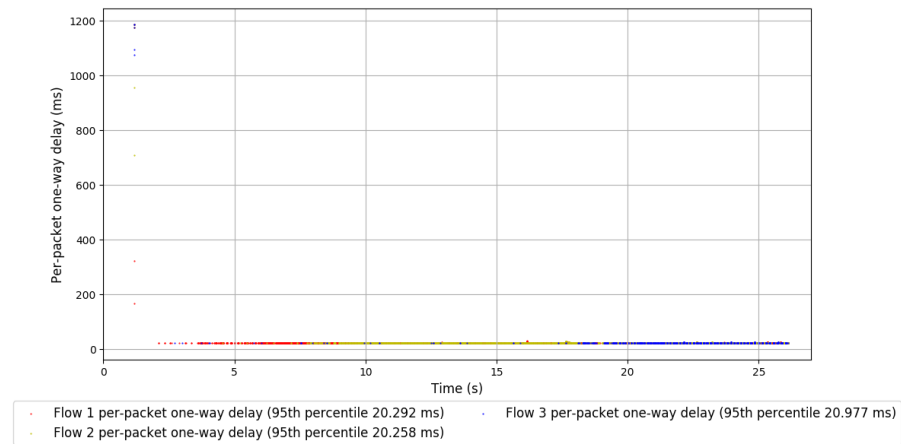
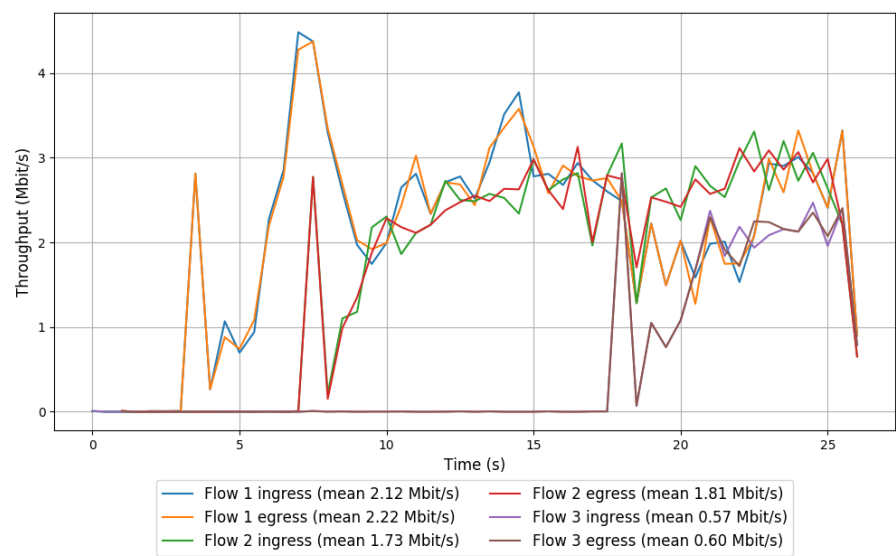
Average throughput: 0.60 Mbit/s

95th percentile per-packet one-way delay: 20.977 ms

Loss rate: 0.00%



Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: Tue, 04 Jul 2017 21:31:54 +0000

End at: Tue, 04 Jul 2017 21:32:24 +0000

Local clock offset: -0.137 ms

Remote clock offset: -1.411 ms

# Below is generated by plot.py at Wed, 05 Jul 2017 05:09:33 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 2.00 Mbit/s

95th percentile per-packet one-way delay: 20.597 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 20.918 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.41 Mbit/s

95th percentile per-packet one-way delay: 20.597 ms

Loss rate: 0.00%

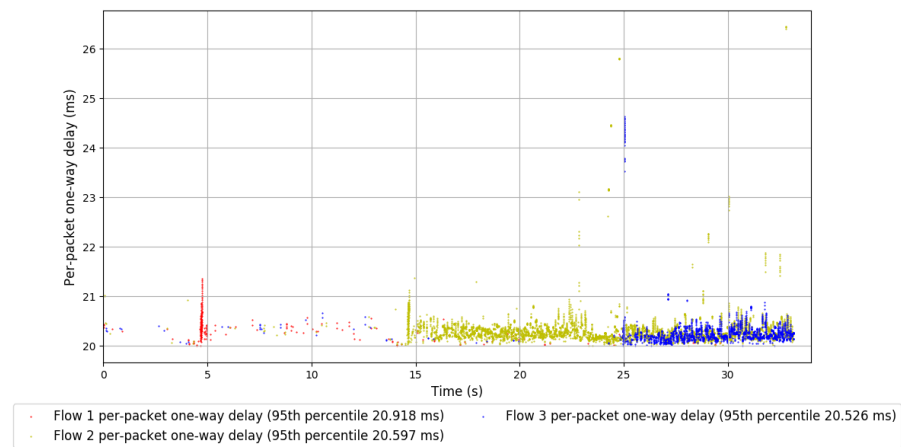
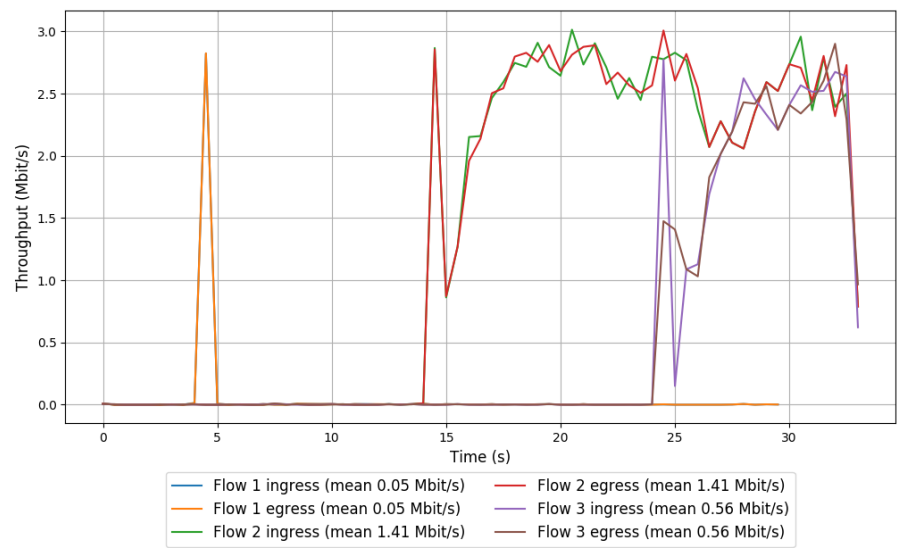
-- Flow 3:

Average throughput: 0.56 Mbit/s

95th percentile per-packet one-way delay: 20.526 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: Tue, 04 Jul 2017 21:52:47 +0000

End at: Tue, 04 Jul 2017 21:53:17 +0000

Local clock offset: 0.036 ms

Remote clock offset: -1.652 ms

# Below is generated by plot.py at Wed, 05 Jul 2017 05:09:33 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 4.14 Mbit/s

95th percentile per-packet one-way delay: 20.926 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.87 Mbit/s

95th percentile per-packet one-way delay: 20.926 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.64 Mbit/s

95th percentile per-packet one-way delay: 20.916 ms

Loss rate: 0.00%

-- Flow 3:

Average throughput: 0.63 Mbit/s

95th percentile per-packet one-way delay: 20.943 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

