

## Pantheon Report

Generated at 2018-04-17 22:27:27 (UTC).

Data path: AWS California 2 Ethernet (*local*) → Mexico Ethernet (*remote*).

Repeated the test of 16 congestion control schemes 10 times.

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

Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo\_fast**).

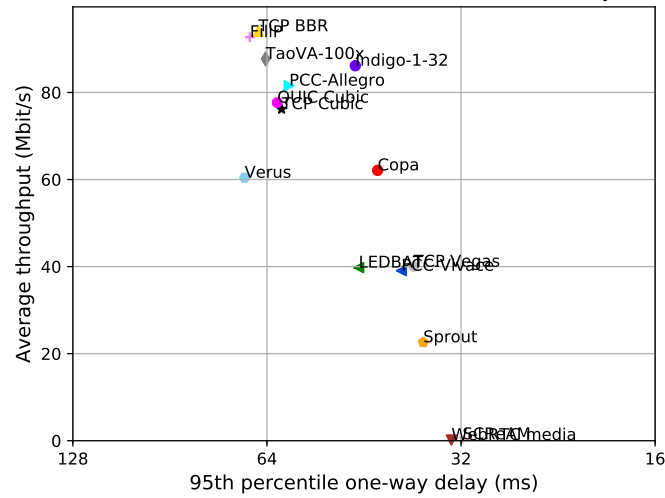
NTP offsets were measured against `time.stanford.edu` and have been applied to correct the timestamps in logs.

Git summary:

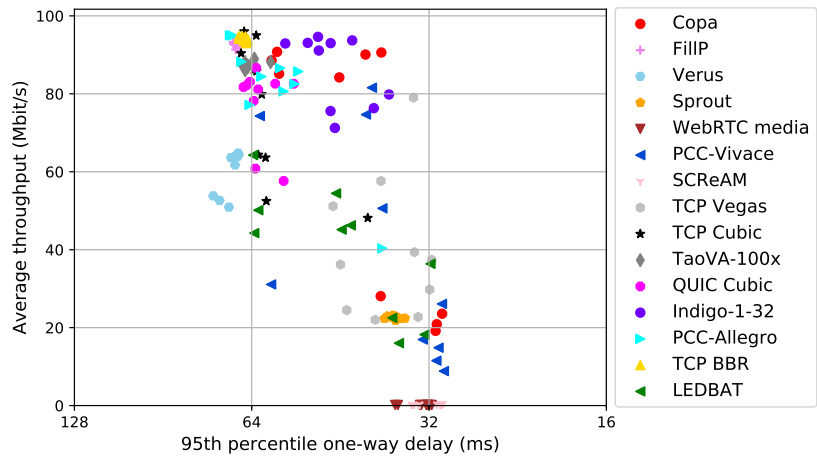
```
branch: master @ b3d6e7098641364fd3a292656a51aa81e316d0b4
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ 11f8c46a2bf1dc797253db7e8ca04076272b2a44
third_party/genericCC @ d223989828276fa83a807da6e0341dc0c7b89aec
third_party/indigo @ a9b2060d39e4da2e8987e893e3eca2a6c7cd0ab9
third_party/indigo-1-layer-128-unit @ 3ae9e4ef4230db7484501f82ce8b377695f2f66d
third_party/indigo-1-layer-32-unit @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/indigo-1-layer-32-unit-no-calib @ 1f3a7f75b41135ed5b540c0fd3505939528e2a5f
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
  M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ fb1053193c2861da659ba9013db26744ccfcf993
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
  M receiver/src/buffer.h
  M receiver/src/core.cpp
  M sender/src/buffer.h
  M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quick @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eaaeb30b267cde681
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/vivace @ 7a4ba531e75b4a6f66f5c4580192120401784ce3
```

third\_party/webrtc @ f271183af822eee5d0031620f4bebf38aedc5581

test from AWS California 2 Ethernet to Mexico 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 2 Ethernet to Mexico Ethernet, 10 runs of 30s each per scheme  
3 flows with 10s interval between flows



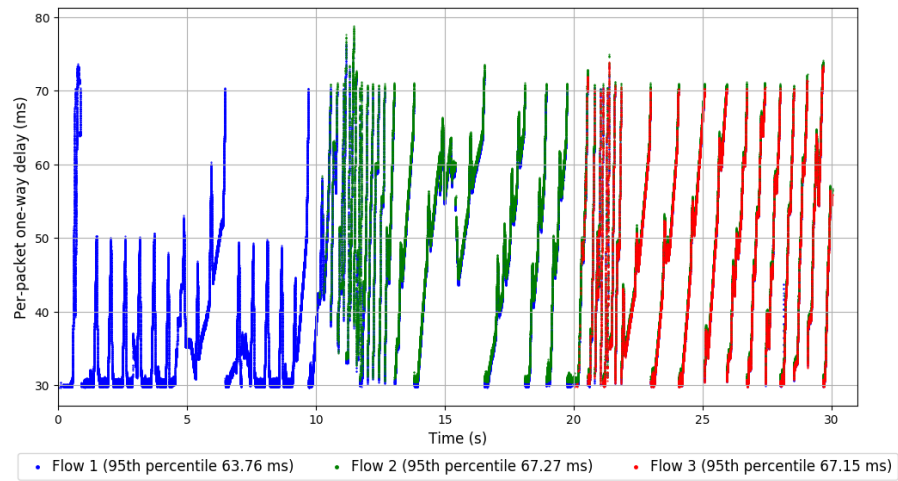
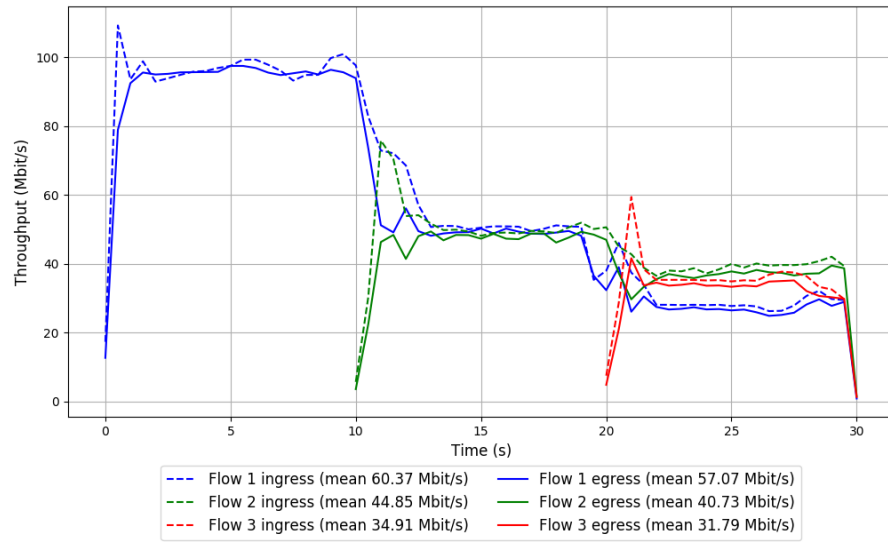


Run 1: Statistics of TCP BBR

Start at: 2018-04-17 17:38:51  
End at: 2018-04-17 17:39:21  
Local clock offset: 2.104 ms  
Remote clock offset: -2.233 ms

# Below is generated by plot.py at 2018-04-17 22:07:01  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 94.75 Mbit/s  
95th percentile per-packet one-way delay: 65.587 ms  
Loss rate: 6.88%  
-- Flow 1:  
Average throughput: 57.07 Mbit/s  
95th percentile per-packet one-way delay: 63.762 ms  
Loss rate: 5.42%  
-- Flow 2:  
Average throughput: 40.73 Mbit/s  
95th percentile per-packet one-way delay: 67.265 ms  
Loss rate: 9.12%  
-- Flow 3:  
Average throughput: 31.79 Mbit/s  
95th percentile per-packet one-way delay: 67.149 ms  
Loss rate: 8.71%

# Run 1: Report of TCP BBR — Data Link

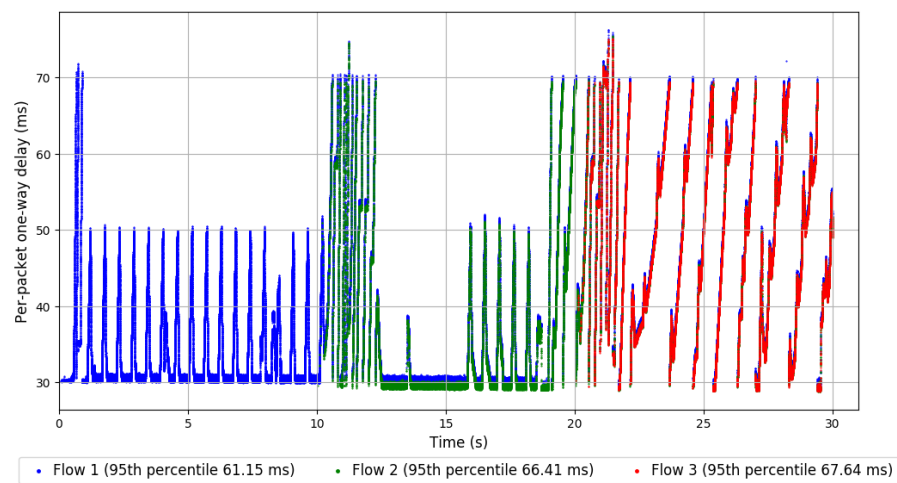
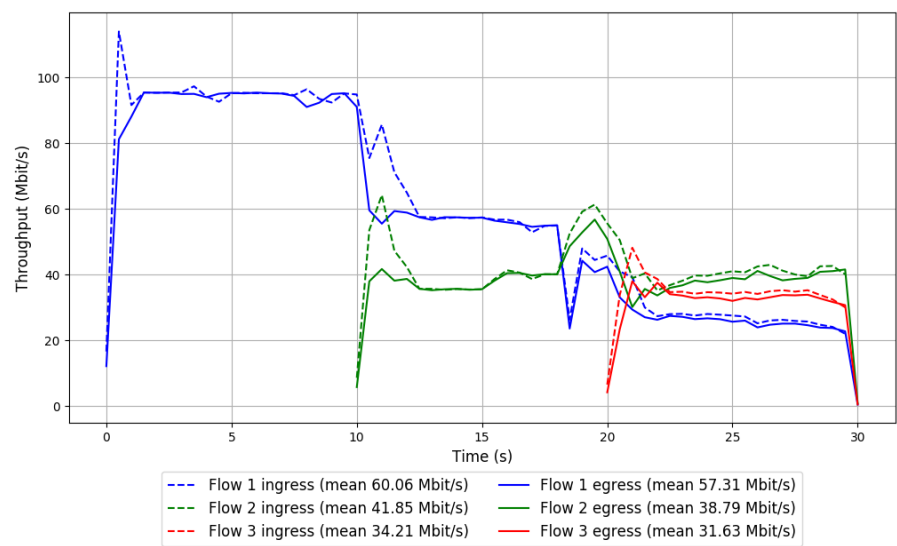


Run 2: Statistics of TCP BBR

Start at: 2018-04-17 18:03:06  
End at: 2018-04-17 18:03:36  
Local clock offset: 4.032 ms  
Remote clock offset: -2.072 ms

# Below is generated by plot.py at 2018-04-17 22:07:01  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.66 Mbit/s  
95th percentile per-packet one-way delay: 65.108 ms  
Loss rate: 5.60%  
-- Flow 1:  
Average throughput: 57.31 Mbit/s  
95th percentile per-packet one-way delay: 61.153 ms  
Loss rate: 4.52%  
-- Flow 2:  
Average throughput: 38.79 Mbit/s  
95th percentile per-packet one-way delay: 66.405 ms  
Loss rate: 7.22%  
-- Flow 3:  
Average throughput: 31.63 Mbit/s  
95th percentile per-packet one-way delay: 67.636 ms  
Loss rate: 7.37%

Run 2: Report of TCP BBR — Data Link

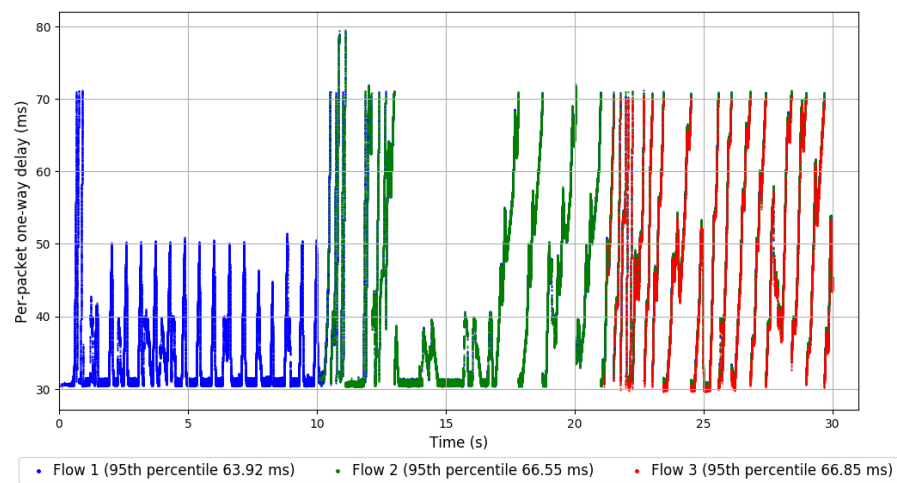
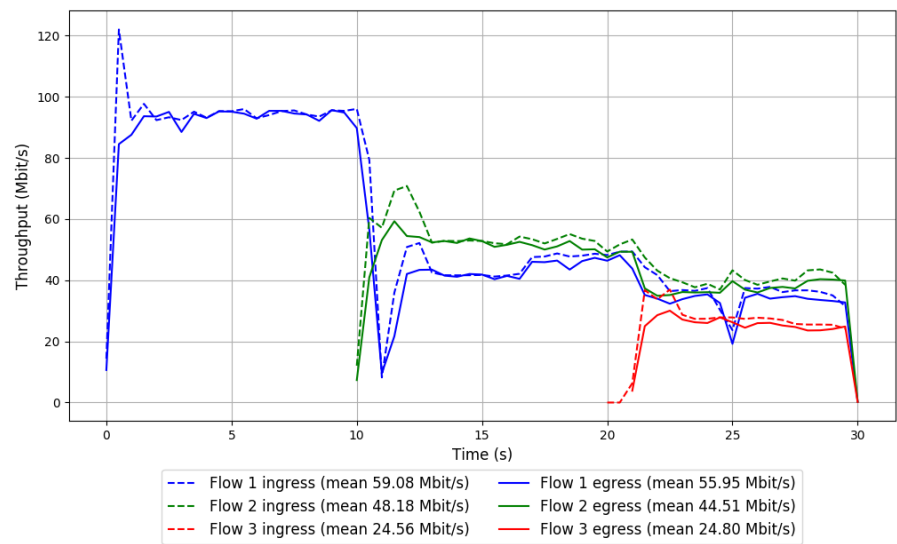


Run 3: Statistics of TCP BBR

Start at: 2018-04-17 18:26:59  
End at: 2018-04-17 18:27:29  
Local clock offset: 6.553 ms  
Remote clock offset: 11.085 ms

# Below is generated by plot.py at 2018-04-17 22:07:01  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.00 Mbit/s  
95th percentile per-packet one-way delay: 65.401 ms  
Loss rate: 6.33%  
-- Flow 1:  
Average throughput: 55.95 Mbit/s  
95th percentile per-packet one-way delay: 63.923 ms  
Loss rate: 5.25%  
-- Flow 2:  
Average throughput: 44.51 Mbit/s  
95th percentile per-packet one-way delay: 66.546 ms  
Loss rate: 7.57%  
-- Flow 3:  
Average throughput: 24.80 Mbit/s  
95th percentile per-packet one-way delay: 66.846 ms  
Loss rate: 9.23%

Run 3: Report of TCP BBR — Data Link

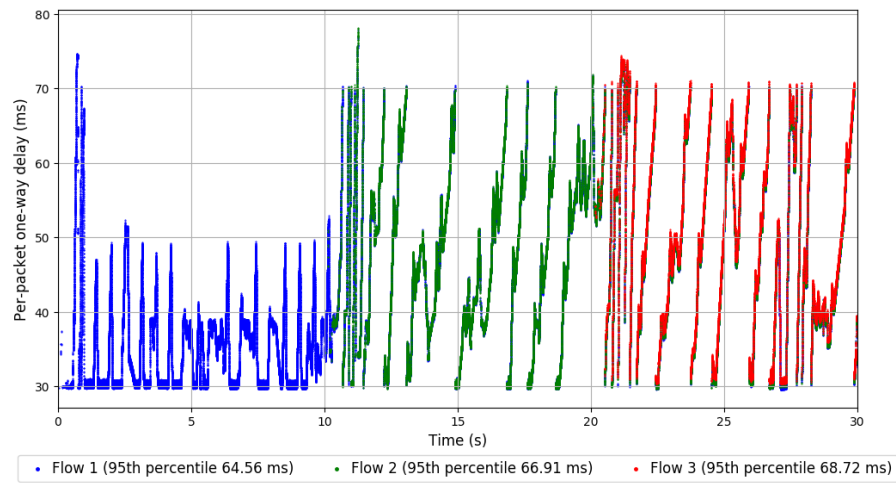
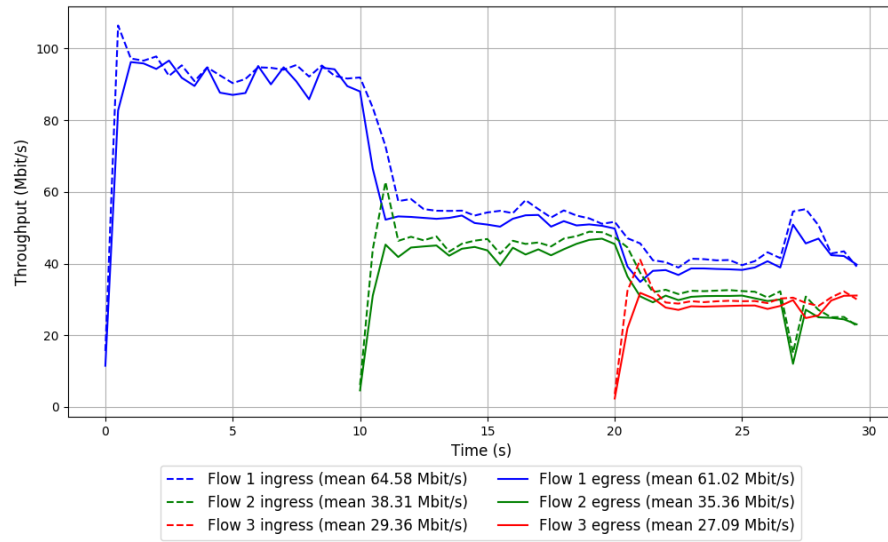


Run 4: Statistics of TCP BBR

Start at: 2018-04-17 18:51:08  
End at: 2018-04-17 18:51:38  
Local clock offset: -0.089 ms  
Remote clock offset: 14.387 ms

# Below is generated by plot.py at 2018-04-17 22:07:01  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.54 Mbit/s  
95th percentile per-packet one-way delay: 66.035 ms  
Loss rate: 6.29%  
-- Flow 1:  
Average throughput: 61.02 Mbit/s  
95th percentile per-packet one-way delay: 64.564 ms  
Loss rate: 5.48%  
-- Flow 2:  
Average throughput: 35.36 Mbit/s  
95th percentile per-packet one-way delay: 66.914 ms  
Loss rate: 7.67%  
-- Flow 3:  
Average throughput: 27.09 Mbit/s  
95th percentile per-packet one-way delay: 68.723 ms  
Loss rate: 7.99%

# Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-04-17 19:15:32

End at: 2018-04-17 19:16:02

Local clock offset: 0.224 ms

Remote clock offset: 6.846 ms

# Below is generated by plot.py at 2018-04-17 22:07:01

# Datalink statistics

-- Total of 3 flows:

Average throughput: 94.10 Mbit/s

95th percentile per-packet one-way delay: 66.279 ms

Loss rate: 5.90%

-- Flow 1:

Average throughput: 60.08 Mbit/s

95th percentile per-packet one-way delay: 65.079 ms

Loss rate: 4.93%

-- Flow 2:

Average throughput: 30.59 Mbit/s

95th percentile per-packet one-way delay: 67.313 ms

Loss rate: 7.01%

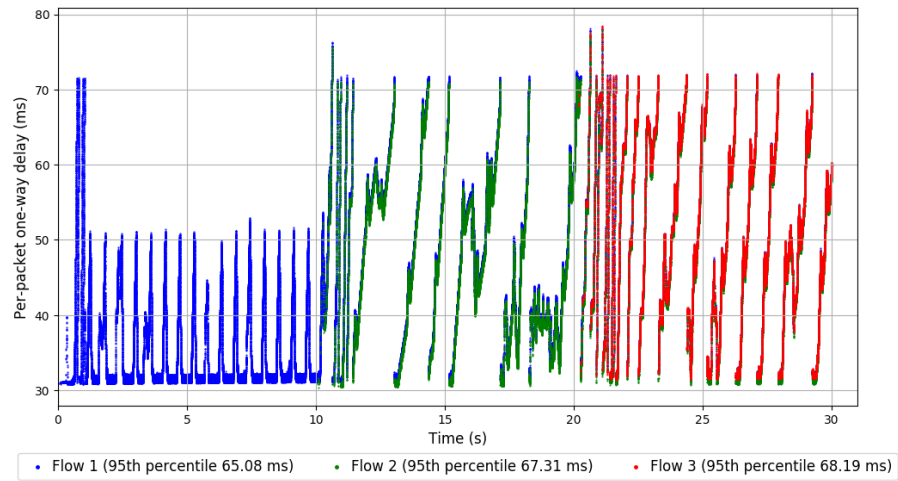
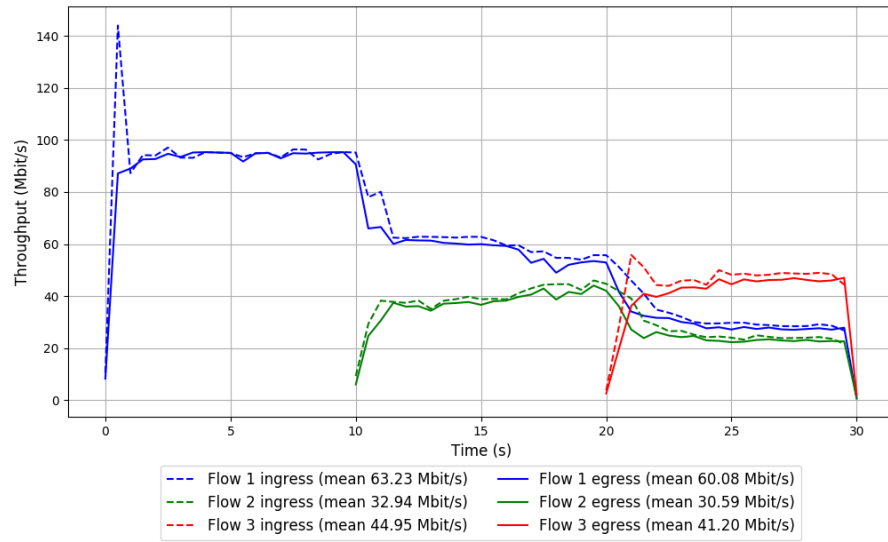
-- Flow 3:

Average throughput: 41.20 Mbit/s

95th percentile per-packet one-way delay: 68.190 ms

Loss rate: 8.41%

# Run 5: Report of TCP BBR — Data Link

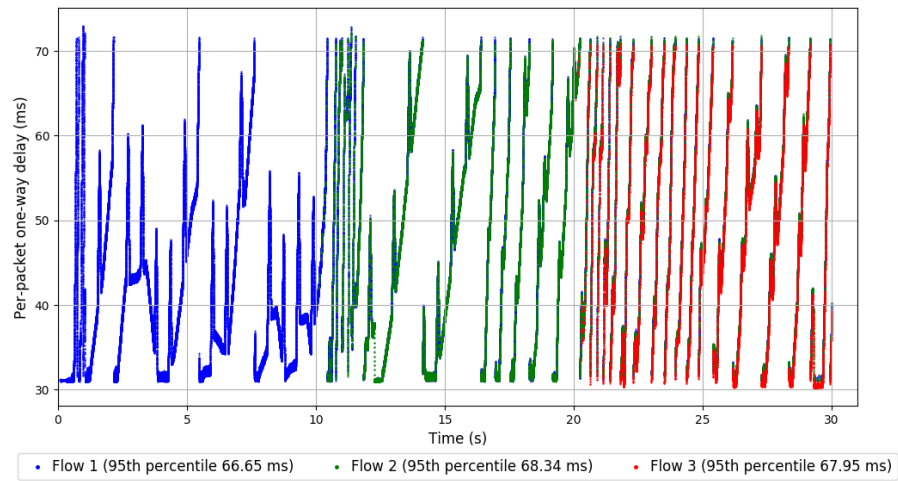
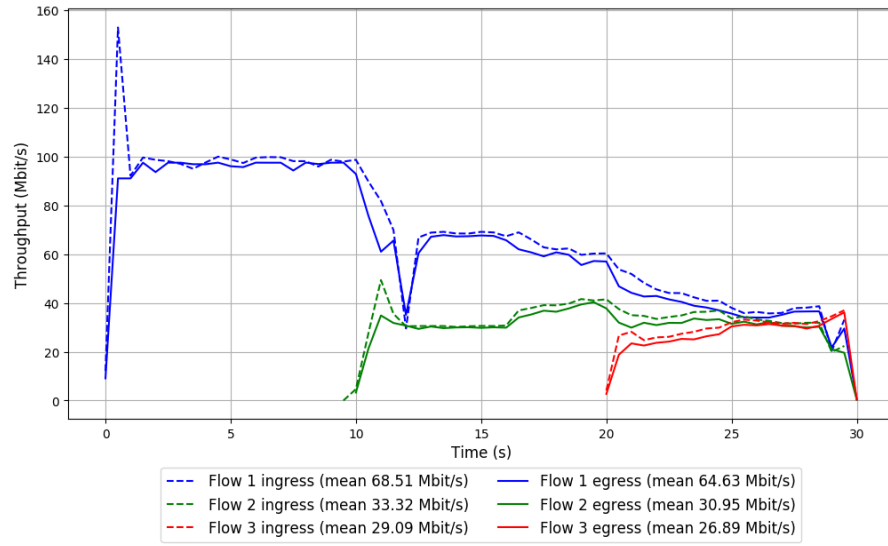


Run 6: Statistics of TCP BBR

Start at: 2018-04-17 19:41:12  
End at: 2018-04-17 19:41:42  
Local clock offset: 0.689 ms  
Remote clock offset: -9.153 ms

# Below is generated by plot.py at 2018-04-17 22:07:01  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 94.15 Mbit/s  
95th percentile per-packet one-way delay: 67.321 ms  
Loss rate: 6.18%  
-- Flow 1:  
Average throughput: 64.63 Mbit/s  
95th percentile per-packet one-way delay: 66.651 ms  
Loss rate: 5.64%  
-- Flow 2:  
Average throughput: 30.95 Mbit/s  
95th percentile per-packet one-way delay: 68.337 ms  
Loss rate: 7.14%  
-- Flow 3:  
Average throughput: 26.89 Mbit/s  
95th percentile per-packet one-way delay: 67.949 ms  
Loss rate: 7.81%

# Run 6: Report of TCP BBR — Data Link

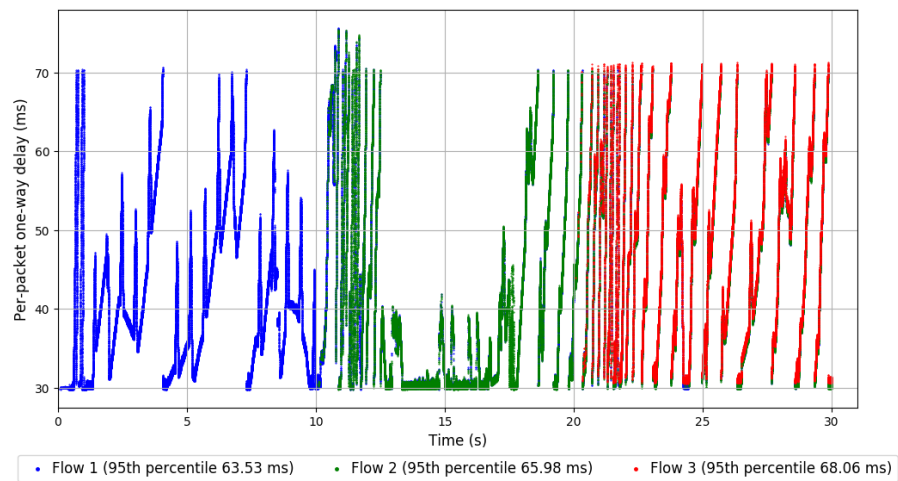
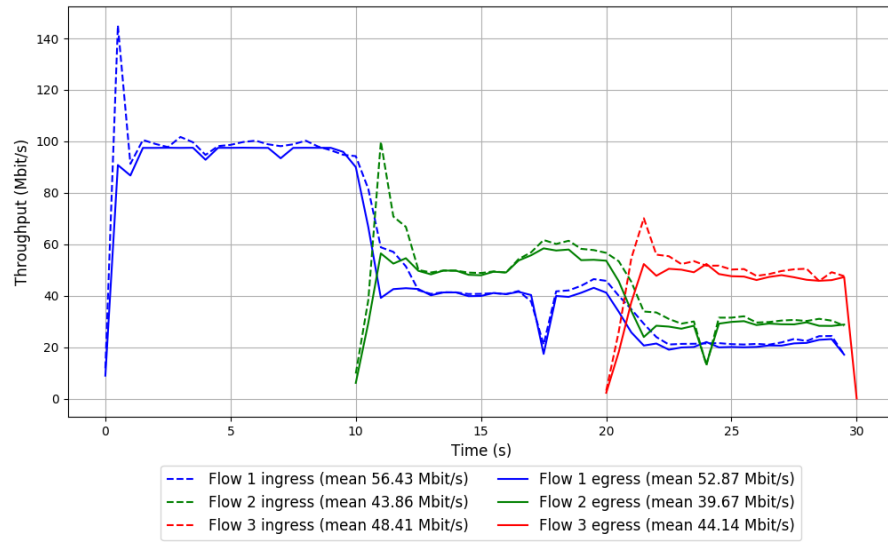


Run 7: Statistics of TCP BBR

Start at: 2018-04-17 20:09:50  
End at: 2018-04-17 20:10:20  
Local clock offset: -0.298 ms  
Remote clock offset: -10.409 ms

# Below is generated by plot.py at 2018-04-17 22:07:02  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.68 Mbit/s  
95th percentile per-packet one-way delay: 65.562 ms  
Loss rate: 7.66%  
-- Flow 1:  
Average throughput: 52.87 Mbit/s  
95th percentile per-packet one-way delay: 63.532 ms  
Loss rate: 6.30%  
-- Flow 2:  
Average throughput: 39.67 Mbit/s  
95th percentile per-packet one-way delay: 65.981 ms  
Loss rate: 9.55%  
-- Flow 3:  
Average throughput: 44.14 Mbit/s  
95th percentile per-packet one-way delay: 68.060 ms  
Loss rate: 8.96%

## Run 7: Report of TCP BBR — Data Link

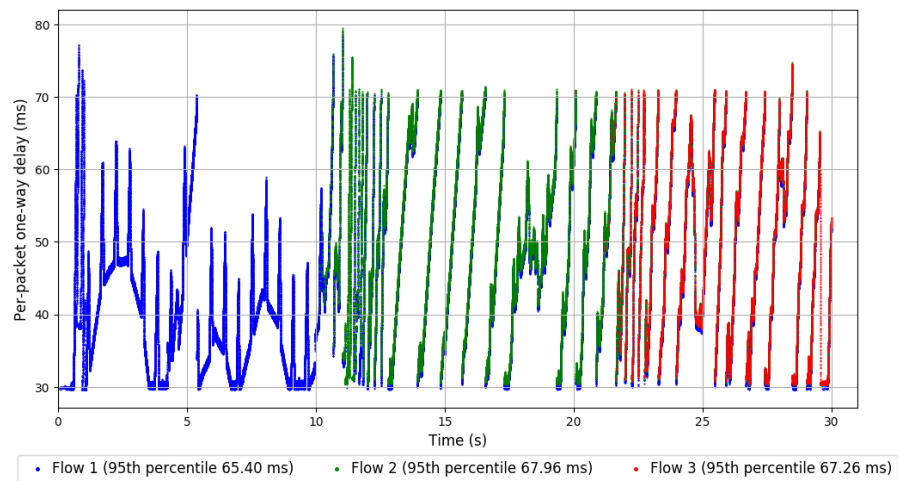
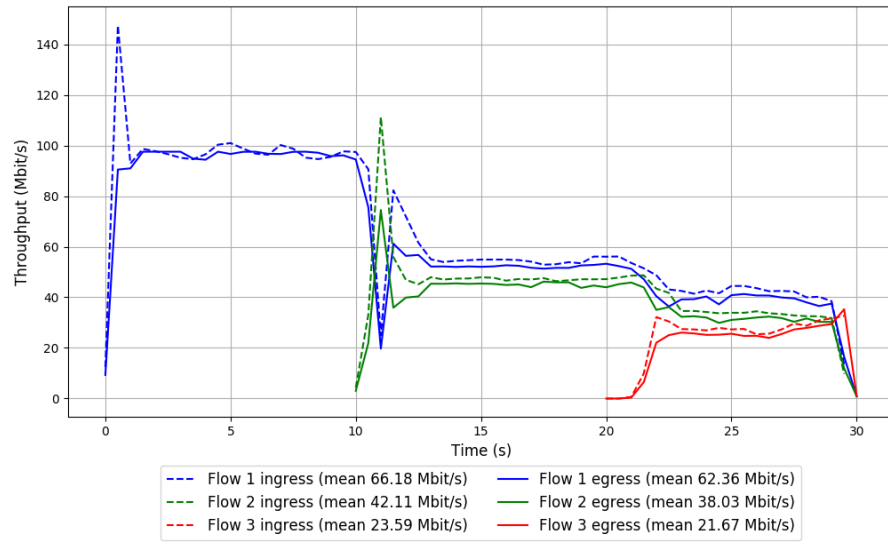


Run 8: Statistics of TCP BBR

Start at: 2018-04-17 20:38:31  
End at: 2018-04-17 20:39:01  
Local clock offset: -0.269 ms  
Remote clock offset: -2.121 ms

# Below is generated by plot.py at 2018-04-17 22:07:03  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 94.87 Mbit/s  
95th percentile per-packet one-way delay: 66.452 ms  
Loss rate: 6.98%  
-- Flow 1:  
Average throughput: 62.36 Mbit/s  
95th percentile per-packet one-way delay: 65.397 ms  
Loss rate: 5.71%  
-- Flow 2:  
Average throughput: 38.03 Mbit/s  
95th percentile per-packet one-way delay: 67.958 ms  
Loss rate: 9.63%  
-- Flow 3:  
Average throughput: 21.67 Mbit/s  
95th percentile per-packet one-way delay: 67.257 ms  
Loss rate: 8.33%

# Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-04-17 21:06:38

End at: 2018-04-17 21:07:08

Local clock offset: 0.13 ms

Remote clock offset: 4.44 ms

# Below is generated by plot.py at 2018-04-17 22:08:25

# Datalink statistics

-- Total of 3 flows:

Average throughput: 94.81 Mbit/s

95th percentile per-packet one-way delay: 67.308 ms

Loss rate: 8.83%

-- Flow 1:

Average throughput: 59.25 Mbit/s

95th percentile per-packet one-way delay: 66.107 ms

Loss rate: 7.11%

-- Flow 2:

Average throughput: 36.16 Mbit/s

95th percentile per-packet one-way delay: 68.475 ms

Loss rate: 10.64%

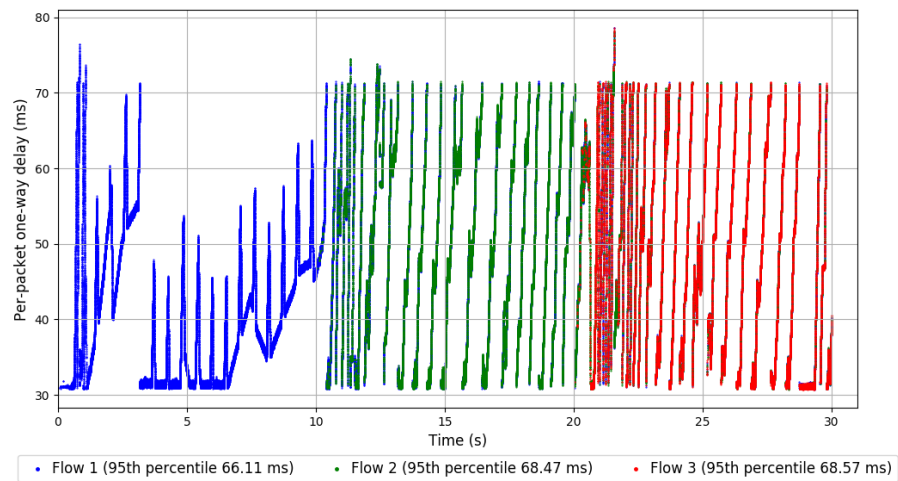
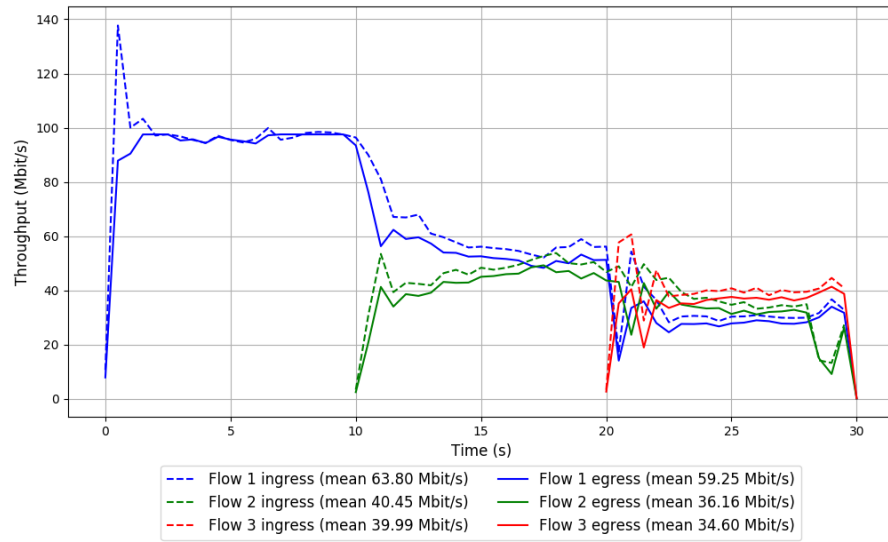
-- Flow 3:

Average throughput: 34.60 Mbit/s

95th percentile per-packet one-way delay: 68.570 ms

Loss rate: 13.44%

# Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-04-17 21:33:30

End at: 2018-04-17 21:34:00

Local clock offset: -0.113 ms

Remote clock offset: 1.863 ms

# Below is generated by plot.py at 2018-04-17 22:08:25

# Datalink statistics

-- Total of 3 flows:

Average throughput: 94.06 Mbit/s

95th percentile per-packet one-way delay: 65.019 ms

Loss rate: 6.88%

-- Flow 1:

Average throughput: 50.38 Mbit/s

95th percentile per-packet one-way delay: 62.911 ms

Loss rate: 4.73%

-- Flow 2:

Average throughput: 48.89 Mbit/s

95th percentile per-packet one-way delay: 65.952 ms

Loss rate: 9.87%

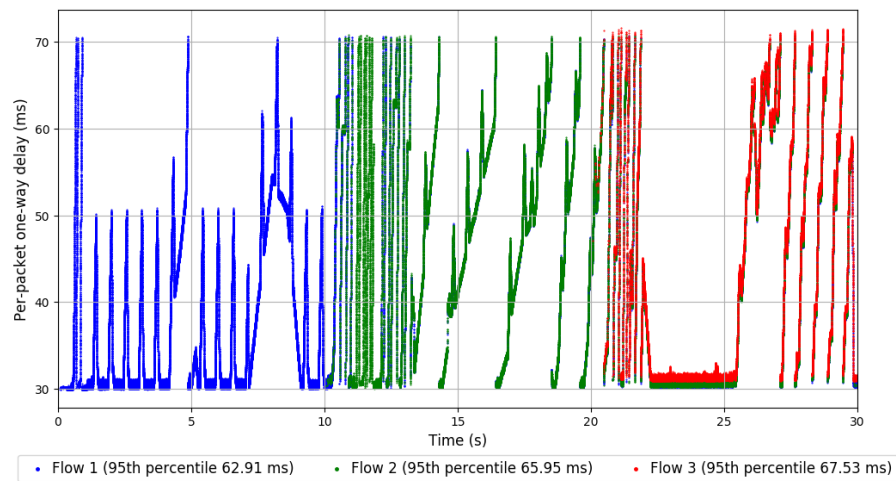
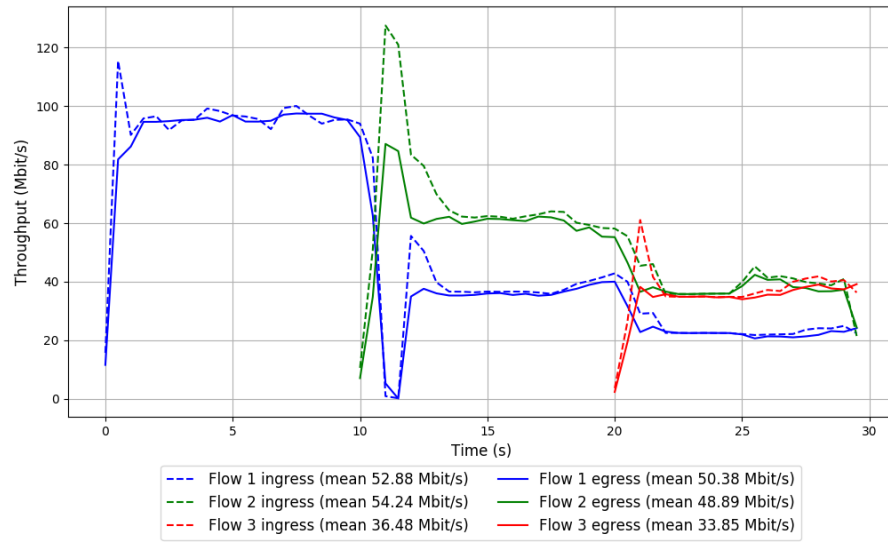
-- Flow 3:

Average throughput: 33.85 Mbit/s

95th percentile per-packet one-way delay: 67.534 ms

Loss rate: 7.37%

# Run 10: Report of TCP BBR — Data Link

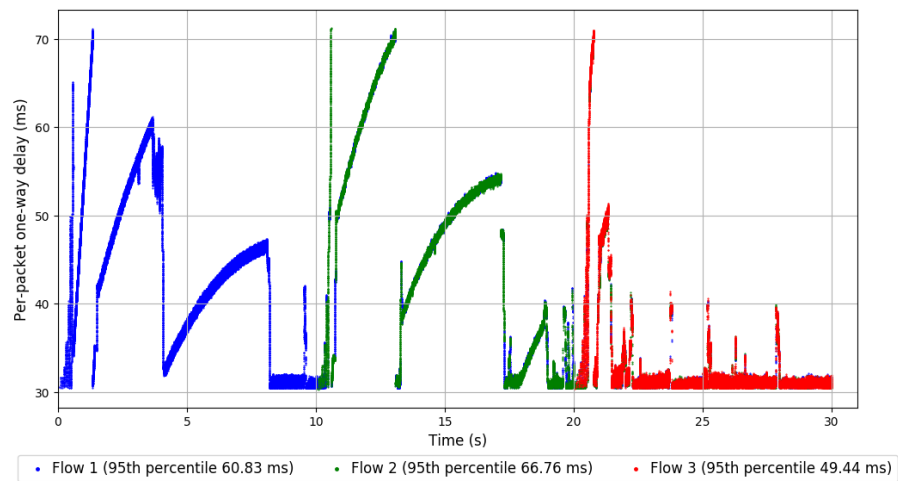
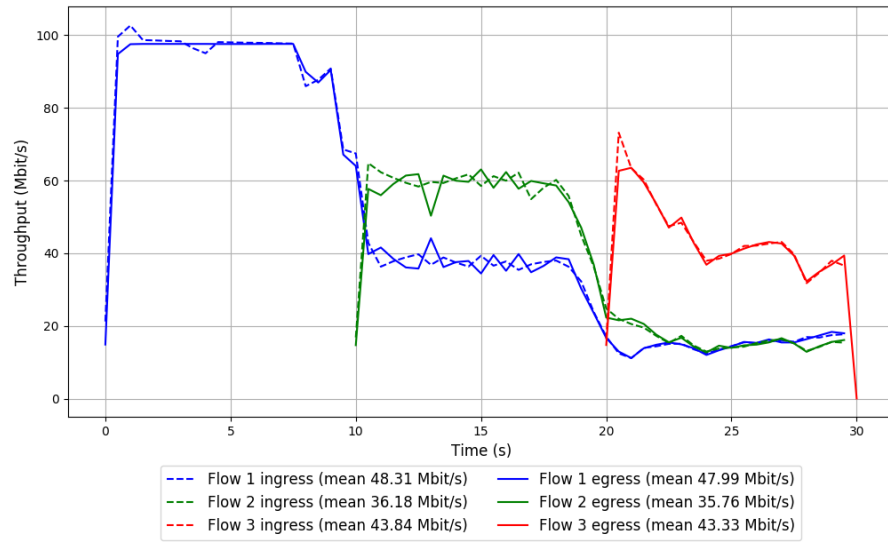


Run 1: Statistics of TCP Cubic

Start at: 2018-04-17 17:44:41  
End at: 2018-04-17 17:45:11  
Local clock offset: 2.272 ms  
Remote clock offset: -2.336 ms

# Below is generated by plot.py at 2018-04-17 22:08:25  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 86.16 Mbit/s  
95th percentile per-packet one-way delay: 63.464 ms  
Loss rate: 0.89%  
-- Flow 1:  
Average throughput: 47.99 Mbit/s  
95th percentile per-packet one-way delay: 60.830 ms  
Loss rate: 0.67%  
-- Flow 2:  
Average throughput: 35.76 Mbit/s  
95th percentile per-packet one-way delay: 66.764 ms  
Loss rate: 1.16%  
-- Flow 3:  
Average throughput: 43.33 Mbit/s  
95th percentile per-packet one-way delay: 49.436 ms  
Loss rate: 1.17%

# Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-04-17 18:08:45

End at: 2018-04-17 18:09:15

Local clock offset: 4.997 ms

Remote clock offset: 4.428 ms

# Below is generated by plot.py at 2018-04-17 22:08:25

# Datalink statistics

-- Total of 3 flows:

Average throughput: 63.64 Mbit/s

95th percentile per-packet one-way delay: 60.635 ms

Loss rate: 0.86%

-- Flow 1:

Average throughput: 24.44 Mbit/s

95th percentile per-packet one-way delay: 51.618 ms

Loss rate: 0.58%

-- Flow 2:

Average throughput: 39.37 Mbit/s

95th percentile per-packet one-way delay: 60.645 ms

Loss rate: 0.90%

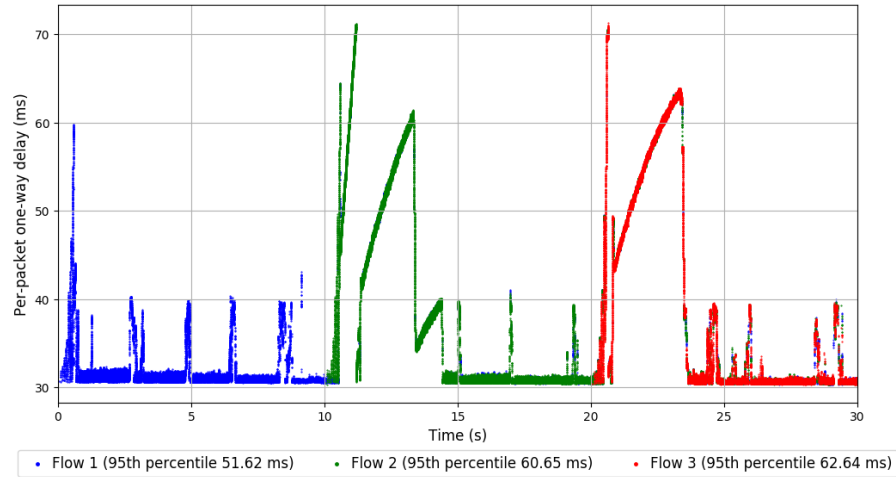
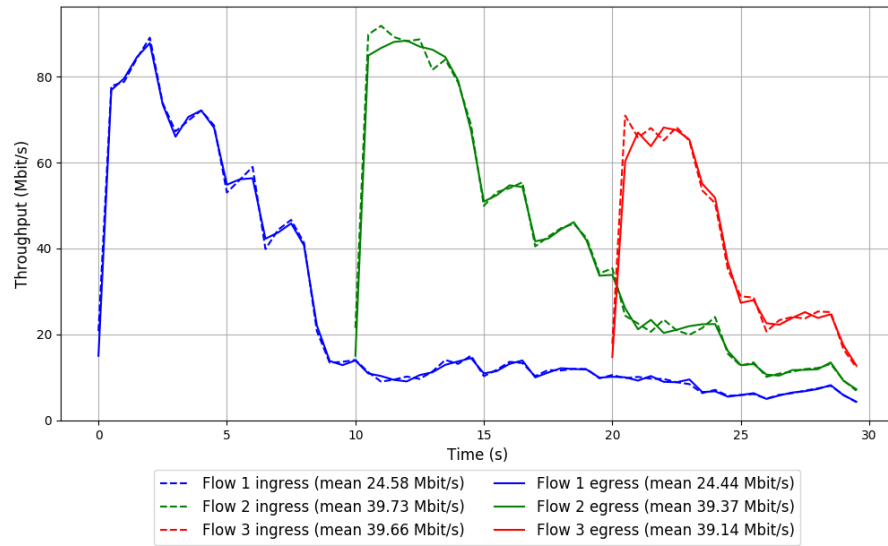
-- Flow 3:

Average throughput: 39.14 Mbit/s

95th percentile per-packet one-way delay: 62.642 ms

Loss rate: 1.31%

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

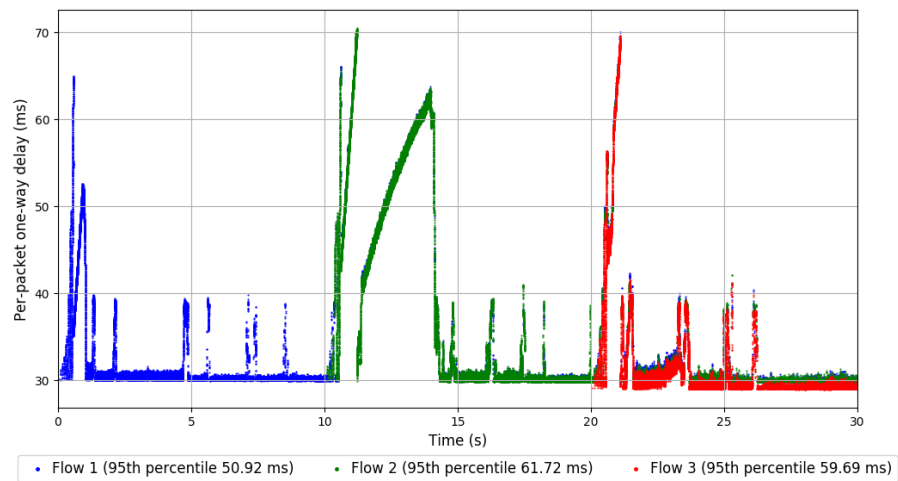
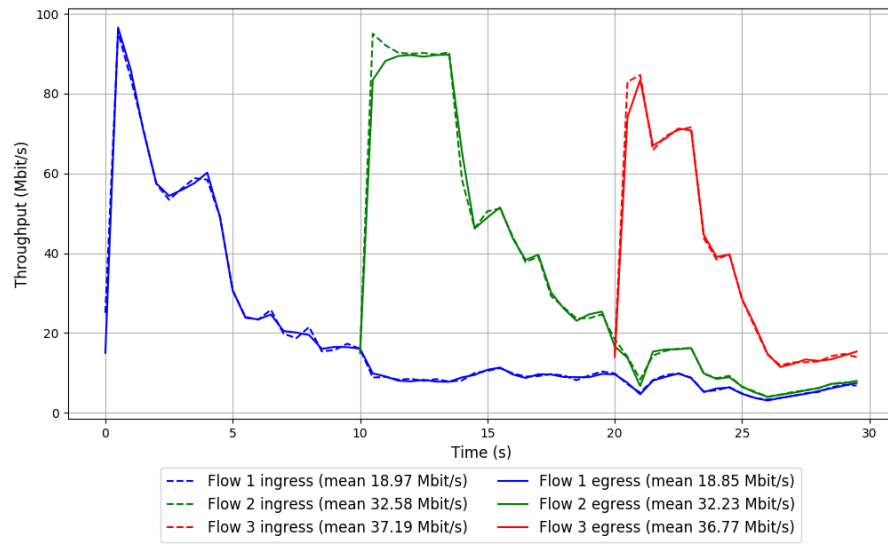


Run 3: Statistics of TCP Cubic

Start at: 2018-04-17 18:32:50  
End at: 2018-04-17 18:33:20  
Local clock offset: 5.505 ms  
Remote clock offset: 12.074 ms

# Below is generated by plot.py at 2018-04-17 22:08:25  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 52.49 Mbit/s  
95th percentile per-packet one-way delay: 60.441 ms  
Loss rate: 0.94%  
-- Flow 1:  
Average throughput: 18.85 Mbit/s  
95th percentile per-packet one-way delay: 50.923 ms  
Loss rate: 0.66%  
-- Flow 2:  
Average throughput: 32.23 Mbit/s  
95th percentile per-packet one-way delay: 61.721 ms  
Loss rate: 1.07%  
-- Flow 3:  
Average throughput: 36.77 Mbit/s  
95th percentile per-packet one-way delay: 59.689 ms  
Loss rate: 1.13%

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

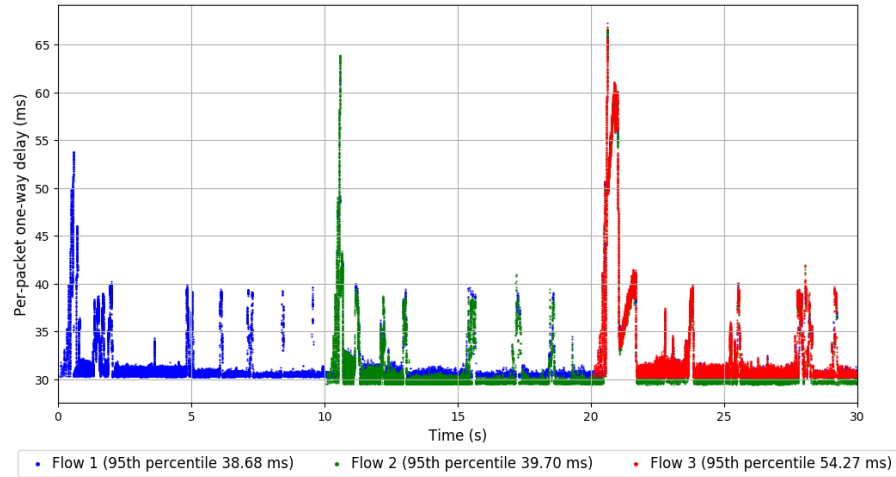
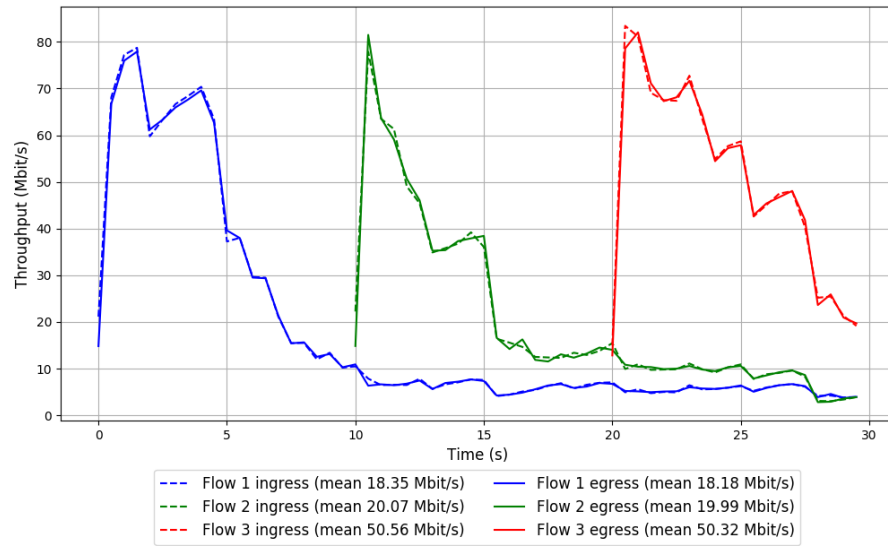


Run 4: Statistics of TCP Cubic

Start at: 2018-04-17 18:57:04  
End at: 2018-04-17 18:57:34  
Local clock offset: -0.547 ms  
Remote clock offset: 14.991 ms

# Below is generated by plot.py at 2018-04-17 22:08:25  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 48.15 Mbit/s  
95th percentile per-packet one-way delay: 40.664 ms  
Loss rate: 0.62%  
-- Flow 1:  
Average throughput: 18.18 Mbit/s  
95th percentile per-packet one-way delay: 38.677 ms  
Loss rate: 0.92%  
-- Flow 2:  
Average throughput: 19.99 Mbit/s  
95th percentile per-packet one-way delay: 39.700 ms  
Loss rate: 0.38%  
-- Flow 3:  
Average throughput: 50.32 Mbit/s  
95th percentile per-packet one-way delay: 54.266 ms  
Loss rate: 0.49%

#### Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-04-17 19:21:07

End at: 2018-04-17 19:21:37

Local clock offset: 0.503 ms

Remote clock offset: 0.979 ms

# Below is generated by plot.py at 2018-04-17 22:08:25

# Datalink statistics

-- Total of 3 flows:

Average throughput: 64.36 Mbit/s

95th percentile per-packet one-way delay: 62.375 ms

Loss rate: 0.73%

-- Flow 1:

Average throughput: 36.73 Mbit/s

95th percentile per-packet one-way delay: 59.220 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 26.05 Mbit/s

95th percentile per-packet one-way delay: 63.511 ms

Loss rate: 1.03%

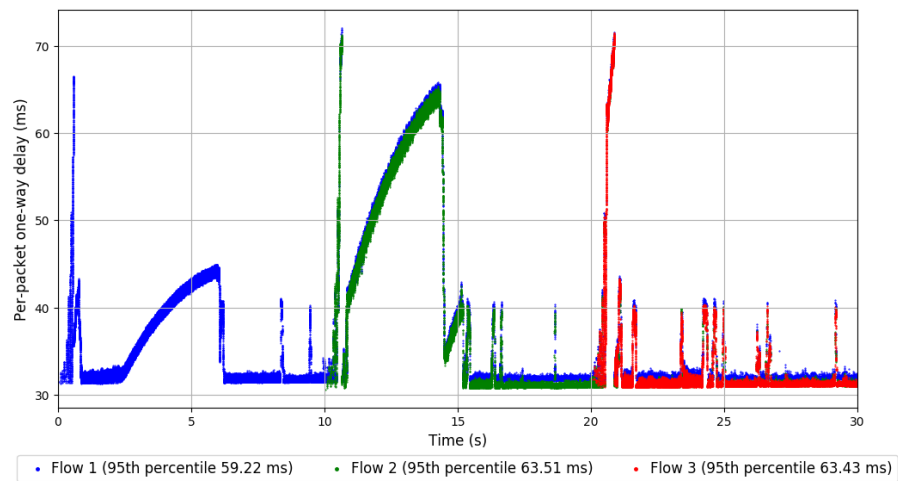
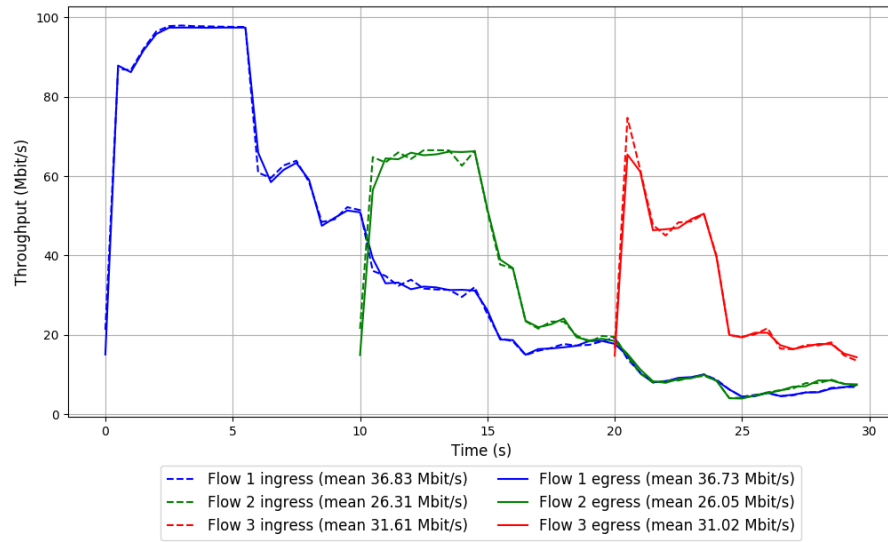
-- Flow 3:

Average throughput: 31.02 Mbit/s

95th percentile per-packet one-way delay: 63.430 ms

Loss rate: 1.86%

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

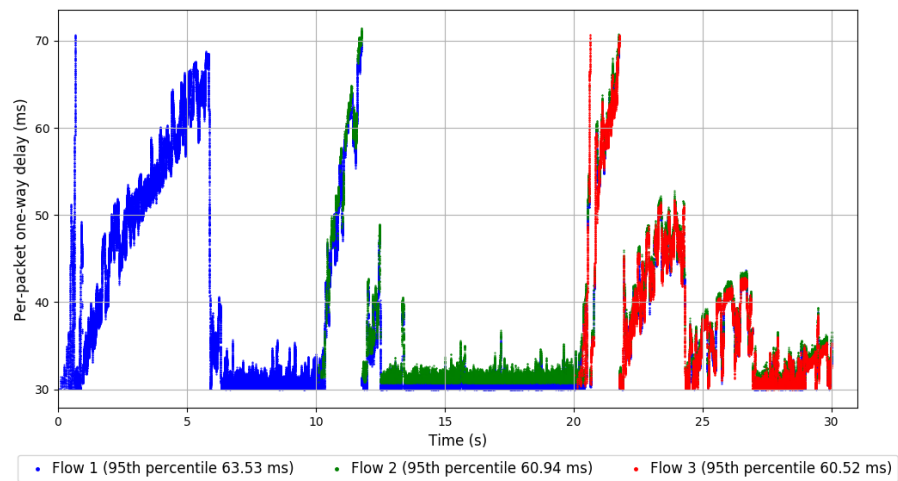
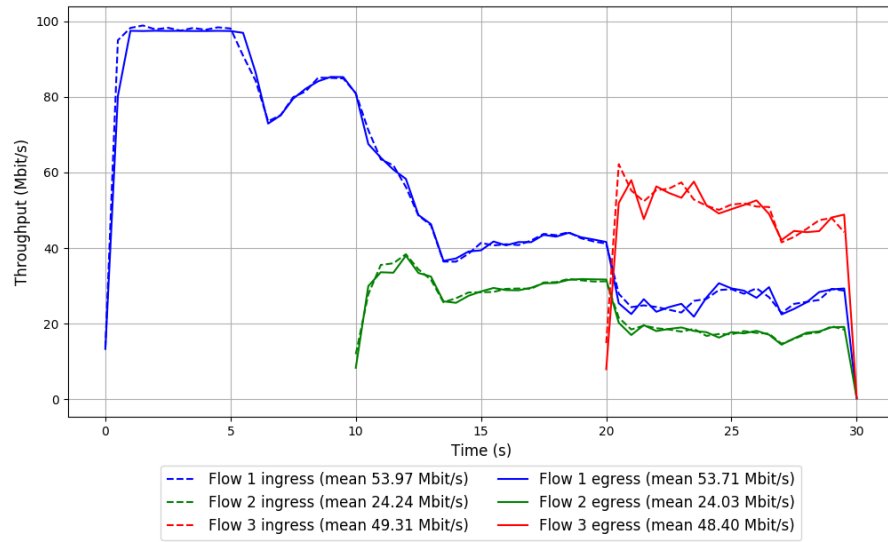


Run 6: Statistics of TCP Cubic

Start at: 2018-04-17 19:48:54  
End at: 2018-04-17 19:49:24  
Local clock offset: 0.211 ms  
Remote clock offset: -9.055 ms

# Below is generated by plot.py at 2018-04-17 22:08:25  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 85.79 Mbit/s  
95th percentile per-packet one-way delay: 62.807 ms  
Loss rate: 0.80%  
-- Flow 1:  
Average throughput: 53.71 Mbit/s  
95th percentile per-packet one-way delay: 63.535 ms  
Loss rate: 0.48%  
-- Flow 2:  
Average throughput: 24.03 Mbit/s  
95th percentile per-packet one-way delay: 60.938 ms  
Loss rate: 0.84%  
-- Flow 3:  
Average throughput: 48.40 Mbit/s  
95th percentile per-packet one-way delay: 60.521 ms  
Loss rate: 1.81%

## Run 6: Report of TCP Cubic — Data Link

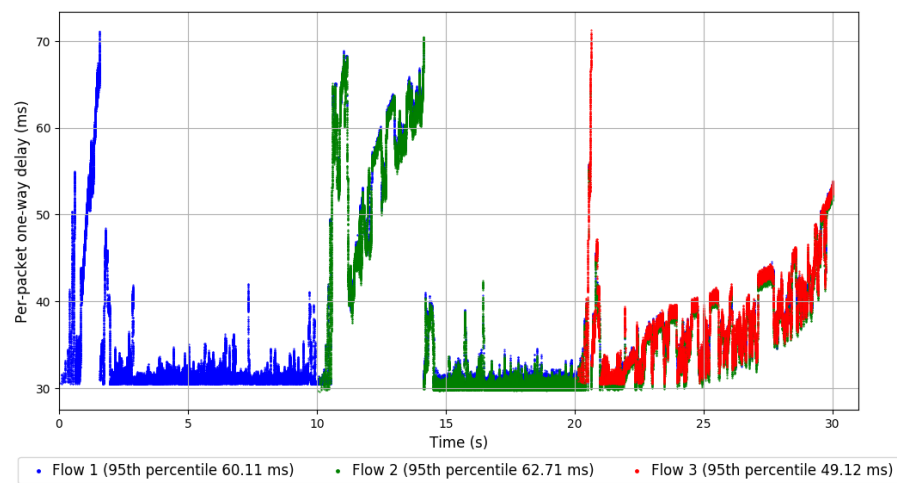
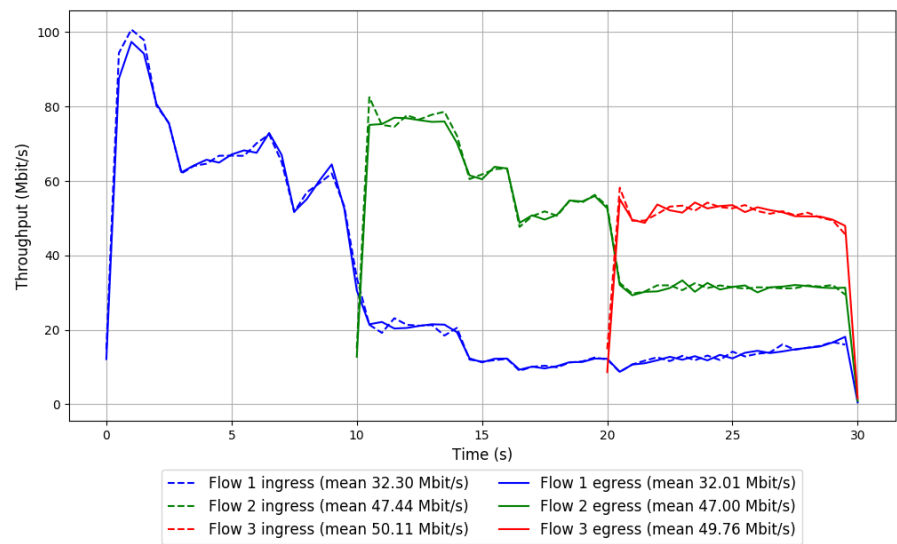


Run 7: Statistics of TCP Cubic

Start at: 2018-04-17 20:17:53  
End at: 2018-04-17 20:18:23  
Local clock offset: -0.289 ms  
Remote clock offset: -11.784 ms

# Below is generated by plot.py at 2018-04-17 22:09:04  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 79.86 Mbit/s  
95th percentile per-packet one-way delay: 61.540 ms  
Loss rate: 0.76%  
-- Flow 1:  
Average throughput: 32.01 Mbit/s  
95th percentile per-packet one-way delay: 60.111 ms  
Loss rate: 0.81%  
-- Flow 2:  
Average throughput: 47.00 Mbit/s  
95th percentile per-packet one-way delay: 62.711 ms  
Loss rate: 0.83%  
-- Flow 3:  
Average throughput: 49.76 Mbit/s  
95th percentile per-packet one-way delay: 49.125 ms  
Loss rate: 0.52%

Run 7: Report of TCP Cubic — Data Link

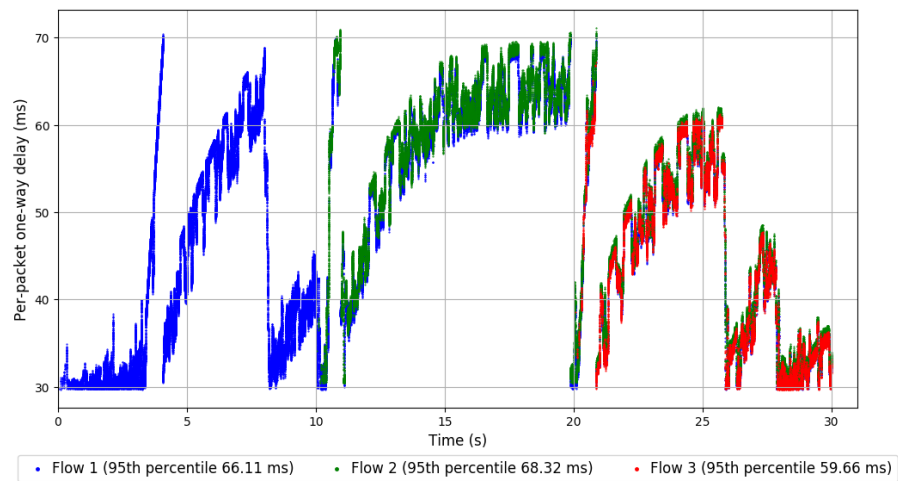
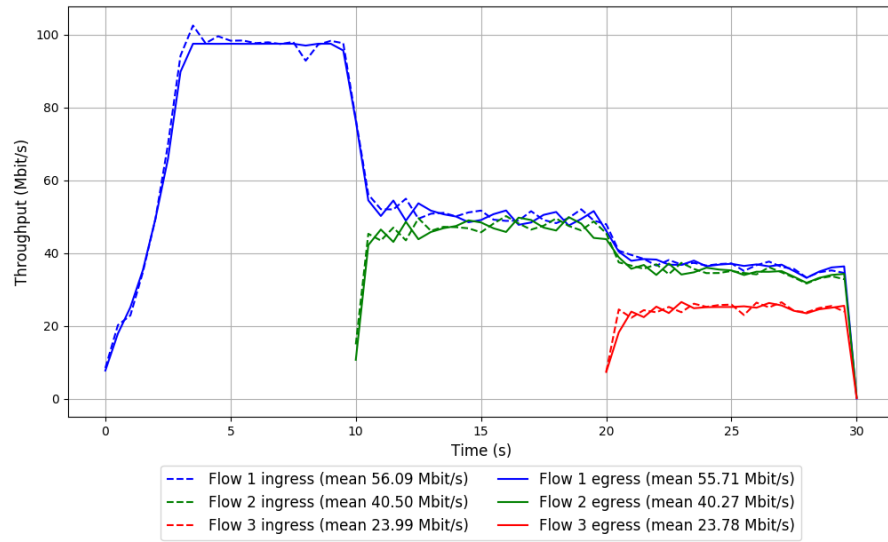


Run 8: Statistics of TCP Cubic

Start at: 2018-04-17 20:46:19  
End at: 2018-04-17 20:46:49  
Local clock offset: -0.337 ms  
Remote clock offset: -1.524 ms

# Below is generated by plot.py at 2018-04-17 22:09:16  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 90.40 Mbit/s  
95th percentile per-packet one-way delay: 66.720 ms  
Loss rate: 0.68%  
-- Flow 1:  
Average throughput: 55.71 Mbit/s  
95th percentile per-packet one-way delay: 66.109 ms  
Loss rate: 0.68%  
-- Flow 2:  
Average throughput: 40.27 Mbit/s  
95th percentile per-packet one-way delay: 68.317 ms  
Loss rate: 0.58%  
-- Flow 3:  
Average throughput: 23.78 Mbit/s  
95th percentile per-packet one-way delay: 59.657 ms  
Loss rate: 0.95%

# Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-04-17 21:14:20

End at: 2018-04-17 21:14:50

Local clock offset: 0.227 ms

Remote clock offset: 5.806 ms

# Below is generated by plot.py at 2018-04-17 22:09:30

# Datalink statistics

-- Total of 3 flows:

Average throughput: 96.00 Mbit/s

95th percentile per-packet one-way delay: 65.920 ms

Loss rate: 0.84%

-- Flow 1:

Average throughput: 78.83 Mbit/s

95th percentile per-packet one-way delay: 65.683 ms

Loss rate: 0.80%

-- Flow 2:

Average throughput: 20.13 Mbit/s

95th percentile per-packet one-way delay: 66.253 ms

Loss rate: 0.93%

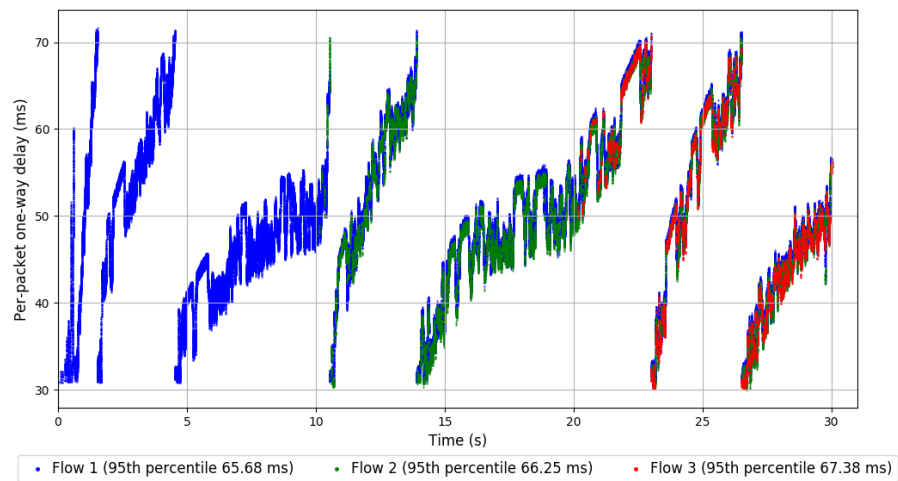
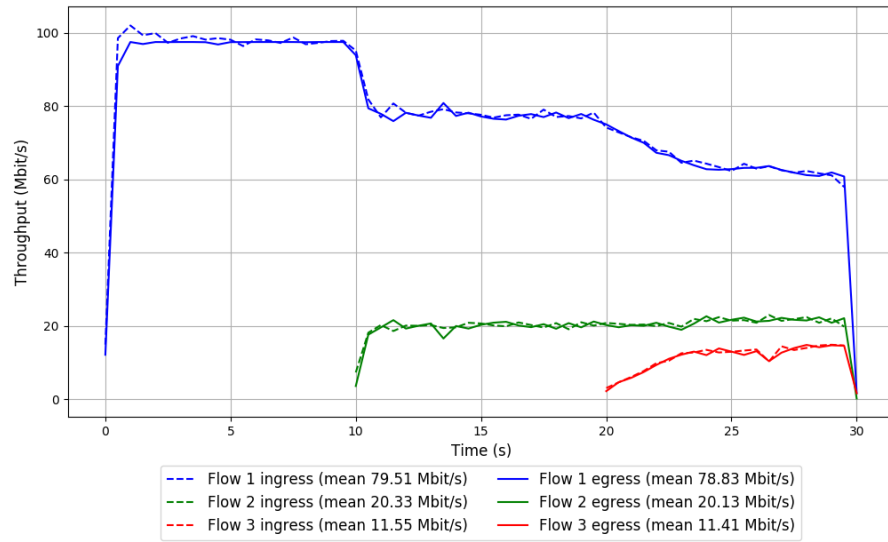
-- Flow 3:

Average throughput: 11.41 Mbit/s

95th percentile per-packet one-way delay: 67.381 ms

Loss rate: 1.21%

# Run 9: Report of TCP Cubic — Data Link

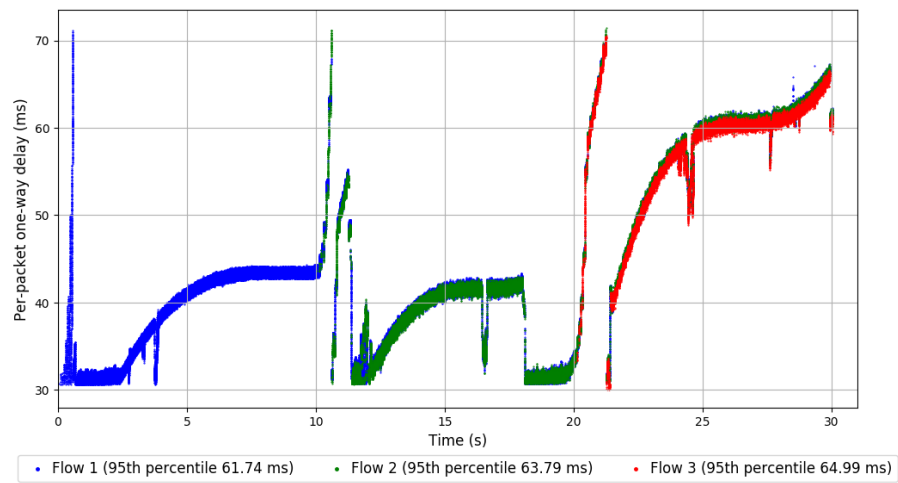
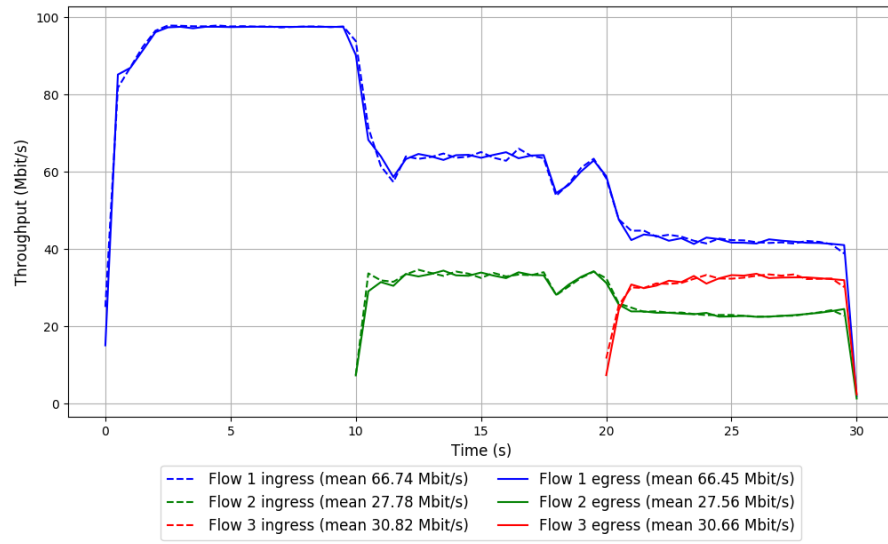


Run 10: Statistics of TCP Cubic

Start at: 2018-04-17 21:39:22  
End at: 2018-04-17 21:39:52  
Local clock offset: -0.286 ms  
Remote clock offset: -0.677 ms

# Below is generated by plot.py at 2018-04-17 22:09:33  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 94.99 Mbit/s  
95th percentile per-packet one-way delay: 62.882 ms  
Loss rate: 0.42%  
-- Flow 1:  
Average throughput: 66.45 Mbit/s  
95th percentile per-packet one-way delay: 61.745 ms  
Loss rate: 0.37%  
-- Flow 2:  
Average throughput: 27.56 Mbit/s  
95th percentile per-packet one-way delay: 63.793 ms  
Loss rate: 0.70%  
-- Flow 3:  
Average throughput: 30.66 Mbit/s  
95th percentile per-packet one-way delay: 64.991 ms  
Loss rate: 0.25%

# Run 10: Report of TCP Cubic — Data Link

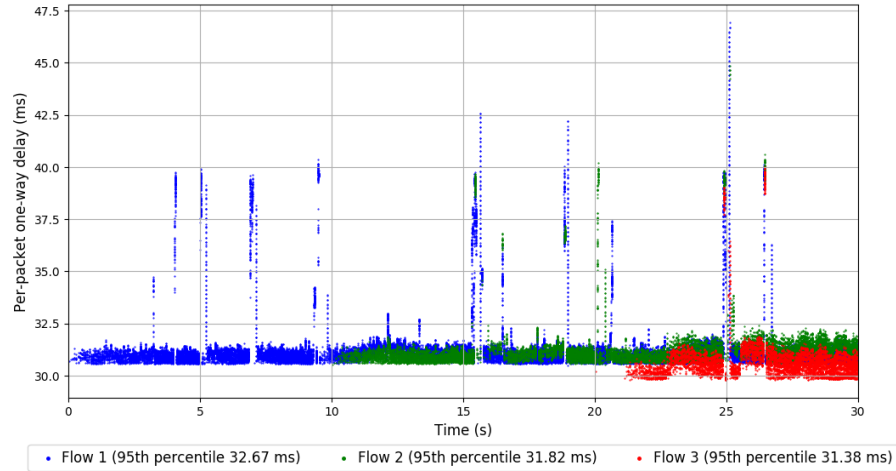
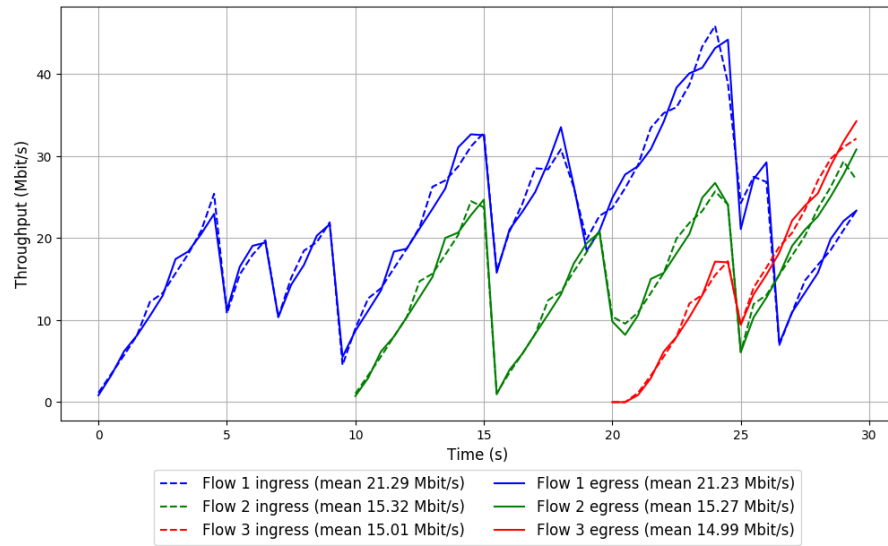


```
Run 1: Statistics of LEDBAT

Start at: 2018-04-17 17:41:53
End at: 2018-04-17 17:42:23
Local clock offset: 2.111 ms
Remote clock offset: -2.234 ms

# Below is generated by plot.py at 2018-04-17 22:09:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 36.37 Mbit/s
95th percentile per-packet one-way delay: 31.823 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 21.23 Mbit/s
95th percentile per-packet one-way delay: 32.670 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 15.27 Mbit/s
95th percentile per-packet one-way delay: 31.816 ms
Loss rate: 0.31%
-- Flow 3:
Average throughput: 14.99 Mbit/s
95th percentile per-packet one-way delay: 31.384 ms
Loss rate: 0.08%
```

# Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2018-04-17 18:06:00

End at: 2018-04-17 18:06:30

Local clock offset: 4.558 ms

Remote clock offset: 1.621 ms

# Below is generated by plot.py at 2018-04-17 22:09:33

# Datalink statistics

-- Total of 3 flows:

Average throughput: 46.25 Mbit/s

95th percentile per-packet one-way delay: 43.460 ms

Loss rate: 0.19%

-- Flow 1:

Average throughput: 23.96 Mbit/s

95th percentile per-packet one-way delay: 39.311 ms

Loss rate: 0.24%

-- Flow 2:

Average throughput: 24.24 Mbit/s

95th percentile per-packet one-way delay: 44.150 ms

Loss rate: 0.14%

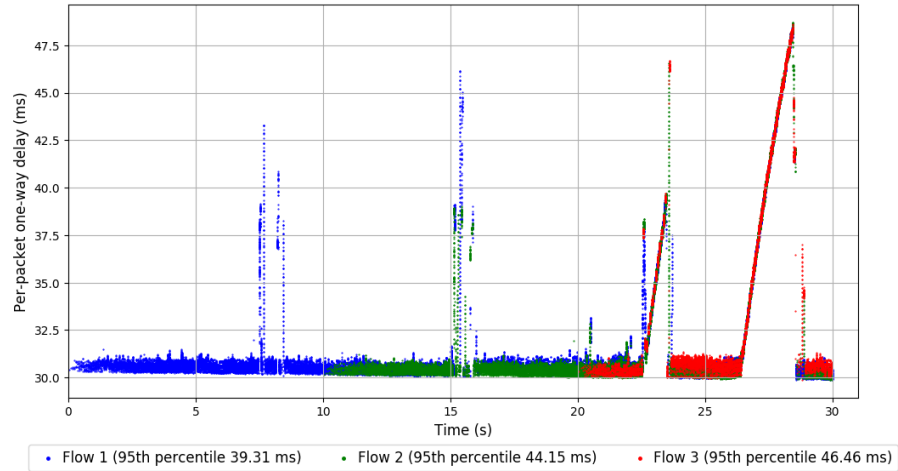
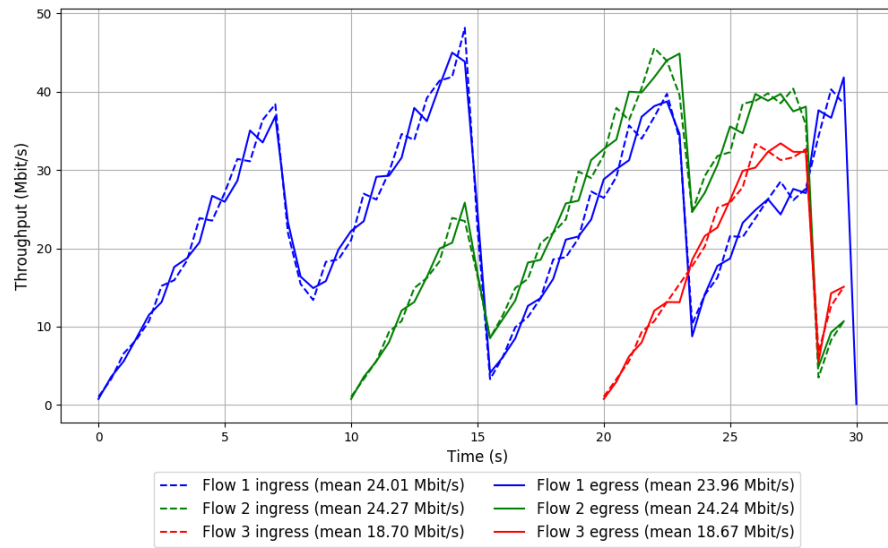
-- Flow 3:

Average throughput: 18.67 Mbit/s

95th percentile per-packet one-way delay: 46.460 ms

Loss rate: 0.15%

## Run 2: Report of LEDBAT — Data Link

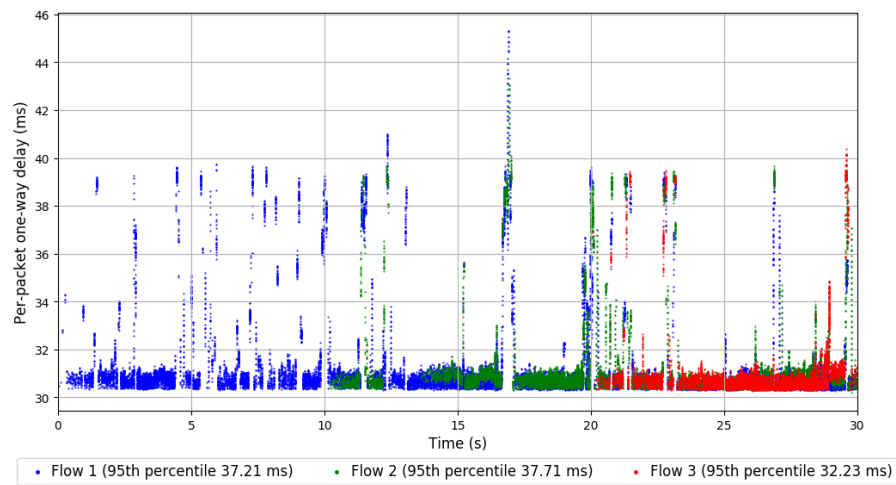
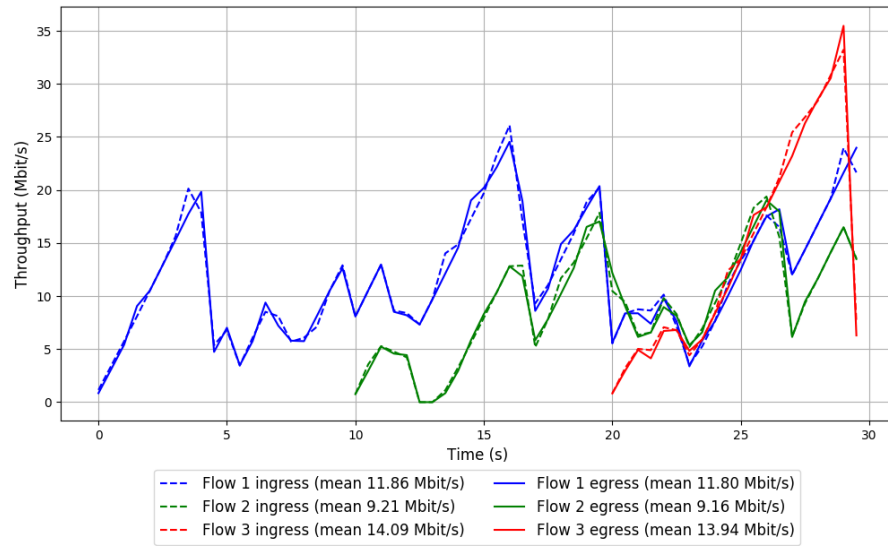


Run 3: Statistics of LEDBAT

Start at: 2018-04-17 18:30:01  
End at: 2018-04-17 18:30:31  
Local clock offset: 6.72 ms  
Remote clock offset: 11.572 ms

# Below is generated by plot.py at 2018-04-17 22:09:33  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 22.51 Mbit/s  
95th percentile per-packet one-way delay: 36.946 ms  
Loss rate: 0.64%  
-- Flow 1:  
Average throughput: 11.80 Mbit/s  
95th percentile per-packet one-way delay: 37.208 ms  
Loss rate: 0.46%  
-- Flow 2:  
Average throughput: 9.16 Mbit/s  
95th percentile per-packet one-way delay: 37.710 ms  
Loss rate: 0.57%  
-- Flow 3:  
Average throughput: 13.94 Mbit/s  
95th percentile per-packet one-way delay: 32.232 ms  
Loss rate: 1.17%

### Run 3: Report of LEDBAT — Data Link

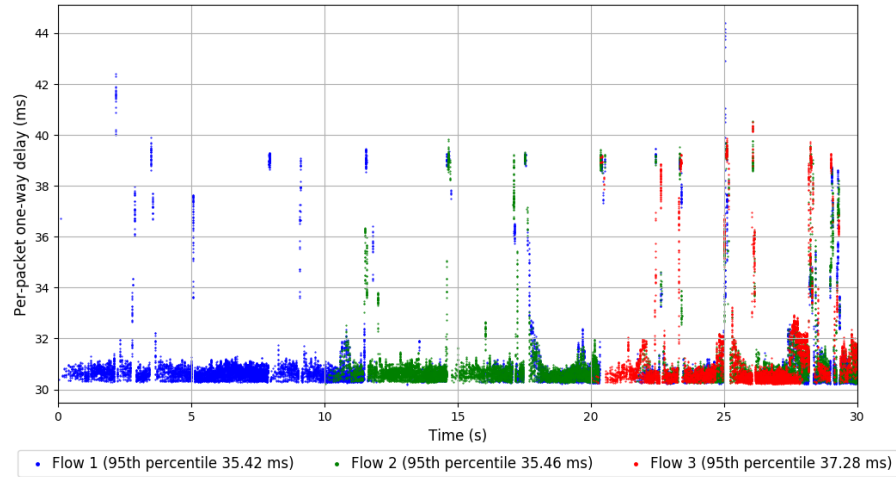
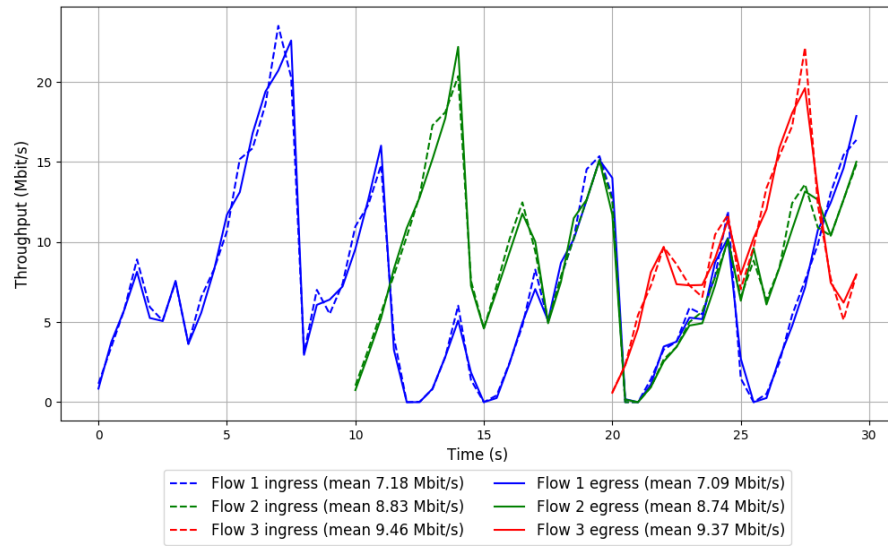


Run 4: Statistics of LEDBAT

Start at: 2018-04-17 18:54:18  
End at: 2018-04-17 18:54:48  
Local clock offset: -0.326 ms  
Remote clock offset: 14.711 ms

```
# Below is generated by plot.py at 2018-04-17 22:09:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 16.01 Mbit/s
95th percentile per-packet one-way delay: 35.998 ms
Loss rate: 1.12%
-- Flow 1:
Average throughput: 7.09 Mbit/s
95th percentile per-packet one-way delay: 35.425 ms
Loss rate: 1.30%
-- Flow 2:
Average throughput: 8.74 Mbit/s
95th percentile per-packet one-way delay: 35.461 ms
Loss rate: 1.03%
-- Flow 3:
Average throughput: 9.37 Mbit/s
95th percentile per-packet one-way delay: 37.277 ms
Loss rate: 0.91%
```

# Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-04-17 19:18:23

End at: 2018-04-17 19:18:53

Local clock offset: 0.417 ms

Remote clock offset: 3.109 ms

# Below is generated by plot.py at 2018-04-17 22:09:33

# Datalink statistics

-- Total of 3 flows:

Average throughput: 44.26 Mbit/s

95th percentile per-packet one-way delay: 63.372 ms

Loss rate: 0.17%

-- Flow 1:

Average throughput: 18.16 Mbit/s

95th percentile per-packet one-way delay: 61.782 ms

Loss rate: 0.31%

-- Flow 2:

Average throughput: 32.13 Mbit/s

95th percentile per-packet one-way delay: 63.534 ms

Loss rate: 0.06%

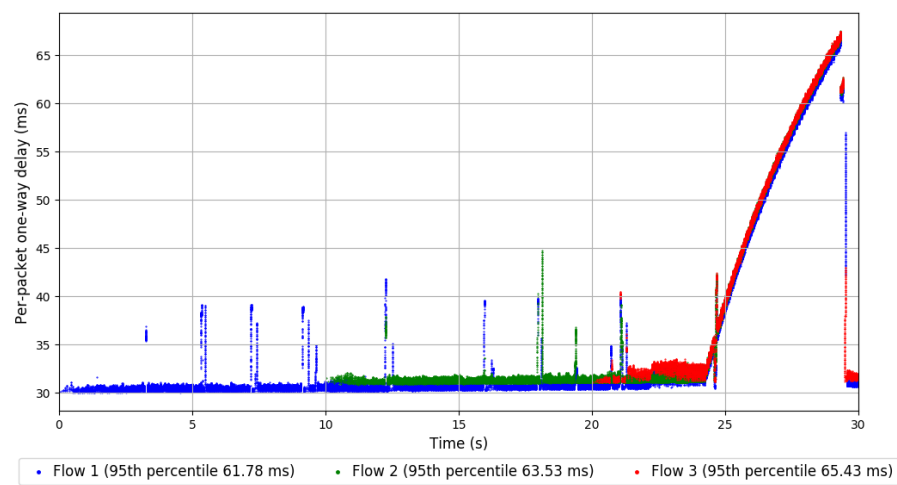
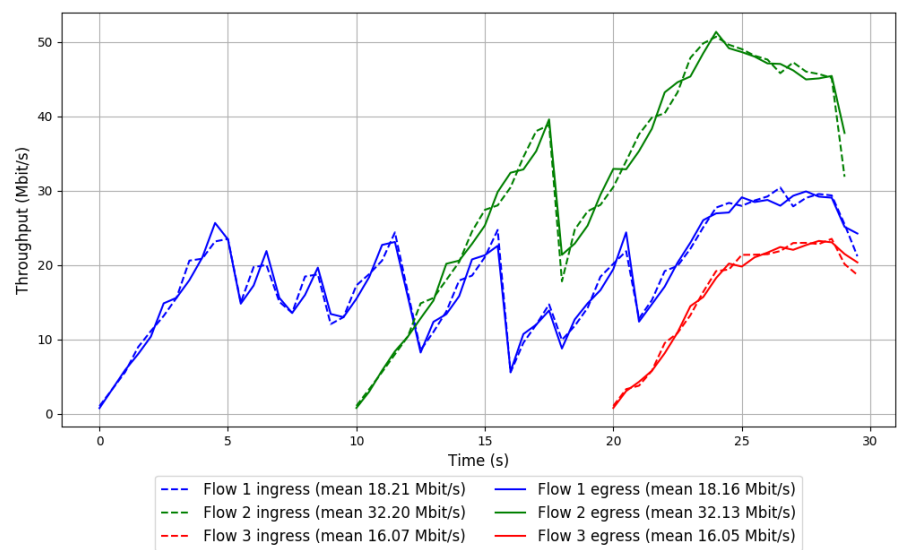
-- Flow 3:

Average throughput: 16.05 Mbit/s

95th percentile per-packet one-way delay: 65.433 ms

Loss rate: 0.10%

Run 5: Report of LEDBAT — Data Link

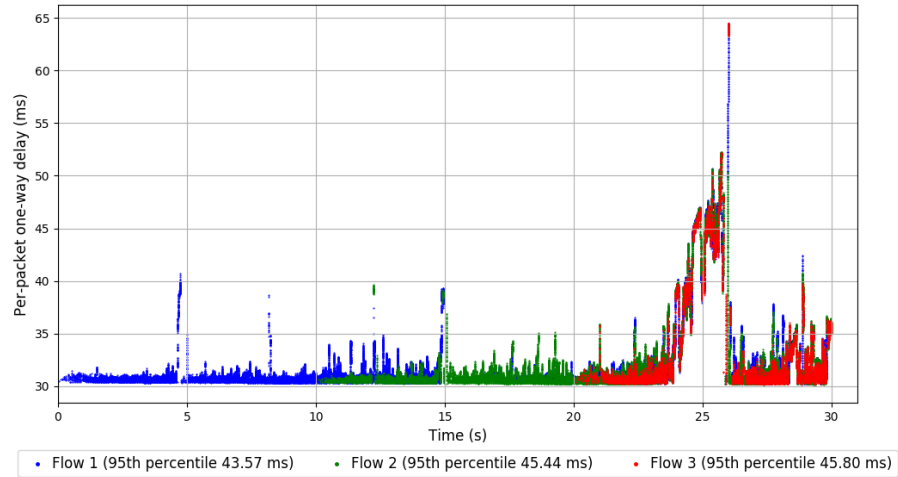
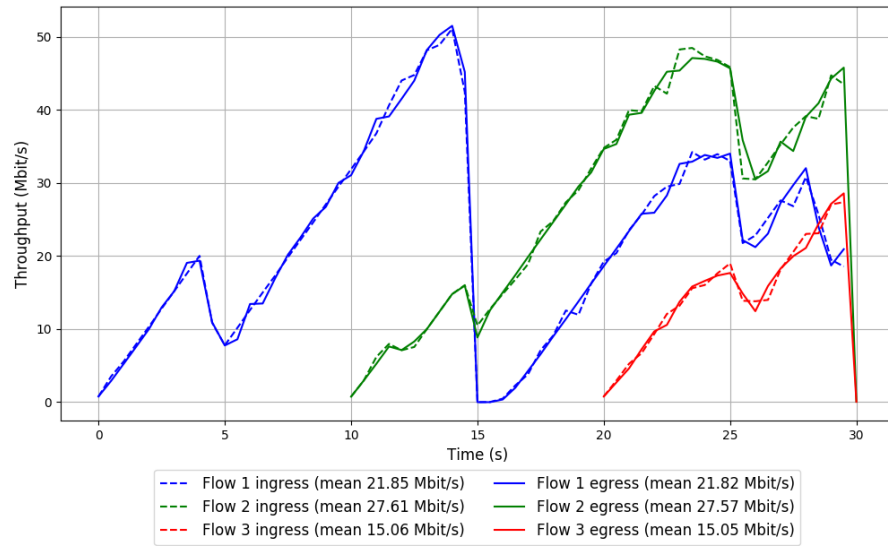


Run 6: Statistics of LEDBAT

Start at: 2018-04-17 19:45:24  
End at: 2018-04-17 19:45:54  
Local clock offset: 0.4 ms  
Remote clock offset: -10.307 ms

# Below is generated by plot.py at 2018-04-17 22:09:36  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 45.16 Mbit/s  
95th percentile per-packet one-way delay: 45.036 ms  
Loss rate: 0.10%  
-- Flow 1:  
Average throughput: 21.82 Mbit/s  
95th percentile per-packet one-way delay: 43.572 ms  
Loss rate: 0.11%  
-- Flow 2:  
Average throughput: 27.57 Mbit/s  
95th percentile per-packet one-way delay: 45.443 ms  
Loss rate: 0.11%  
-- Flow 3:  
Average throughput: 15.05 Mbit/s  
95th percentile per-packet one-way delay: 45.795 ms  
Loss rate: 0.02%

## Run 6: Report of LEDBAT — Data Link

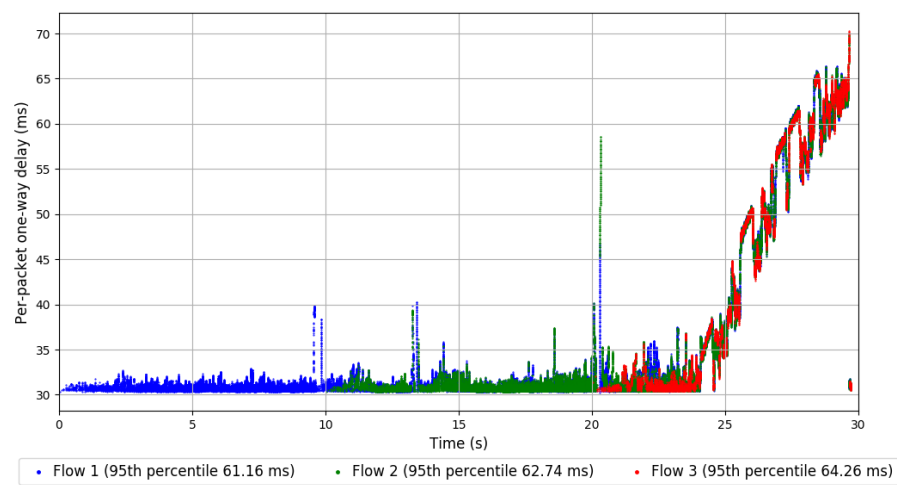
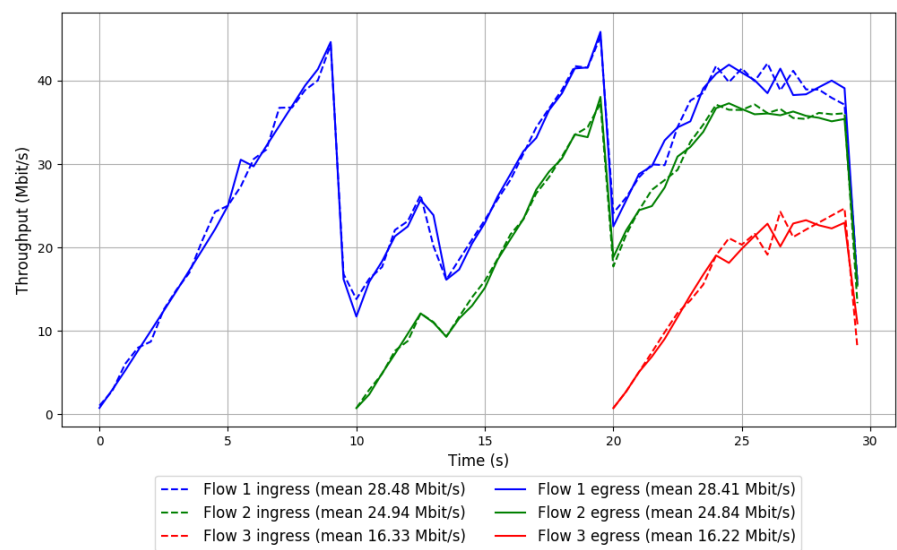


Run 7: Statistics of LEDBAT

Start at: 2018-04-17 20:14:23  
End at: 2018-04-17 20:14:53  
Local clock offset: -0.393 ms  
Remote clock offset: -10.716 ms

# Below is generated by plot.py at 2018-04-17 22:09:47  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 50.14 Mbit/s  
95th percentile per-packet one-way delay: 62.372 ms  
Loss rate: 0.32%  
-- Flow 1:  
Average throughput: 28.41 Mbit/s  
95th percentile per-packet one-way delay: 61.155 ms  
Loss rate: 0.22%  
-- Flow 2:  
Average throughput: 24.84 Mbit/s  
95th percentile per-packet one-way delay: 62.741 ms  
Loss rate: 0.38%  
-- Flow 3:  
Average throughput: 16.22 Mbit/s  
95th percentile per-packet one-way delay: 64.261 ms  
Loss rate: 0.66%

Run 7: Report of LEDBAT — Data Link

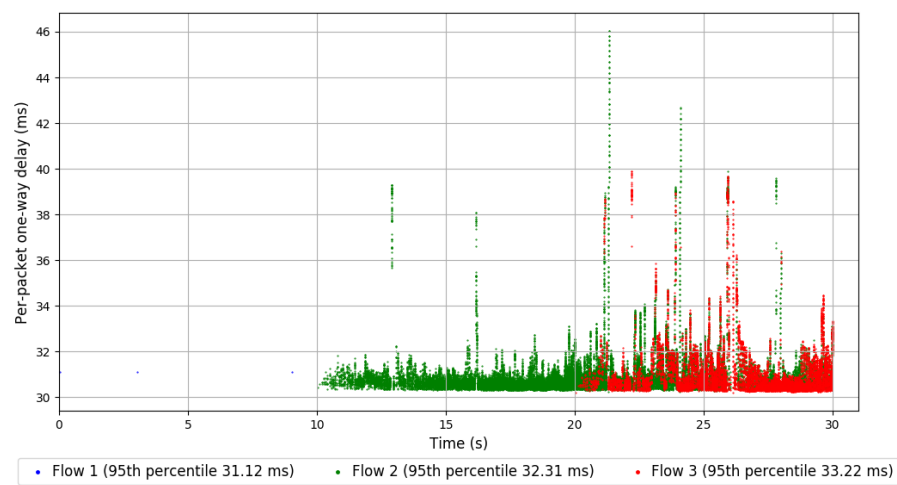
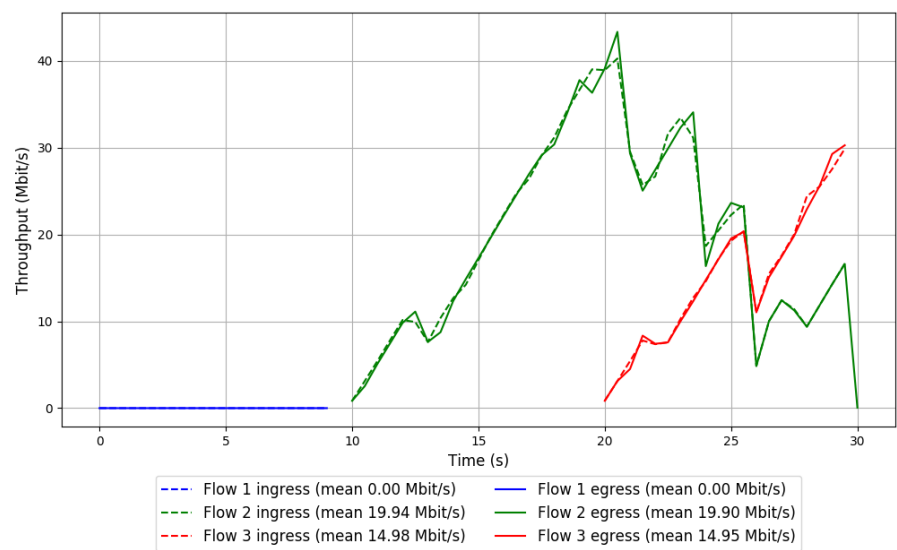


Run 8: Statistics of LEDBAT

Start at: 2018-04-17 20:42:56  
End at: 2018-04-17 20:43:26  
Local clock offset: -0.377 ms  
Remote clock offset: -1.172 ms

```
# Below is generated by plot.py at 2018-04-17 22:09:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 18.21 Mbit/s
95th percentile per-packet one-way delay: 32.571 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 31.119 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 19.90 Mbit/s
95th percentile per-packet one-way delay: 32.310 ms
Loss rate: 0.18%
-- Flow 3:
Average throughput: 14.95 Mbit/s
95th percentile per-packet one-way delay: 33.220 ms
Loss rate: 0.24%
```

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-04-17 21:10:44

End at: 2018-04-17 21:11:14

Local clock offset: 0.19 ms

Remote clock offset: 4.773 ms

# Below is generated by plot.py at 2018-04-17 22:10:02

# Datalink statistics

-- Total of 3 flows:

Average throughput: 54.45 Mbit/s

95th percentile per-packet one-way delay: 46.028 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 35.72 Mbit/s

95th percentile per-packet one-way delay: 44.387 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 21.69 Mbit/s

95th percentile per-packet one-way delay: 47.945 ms

Loss rate: 0.09%

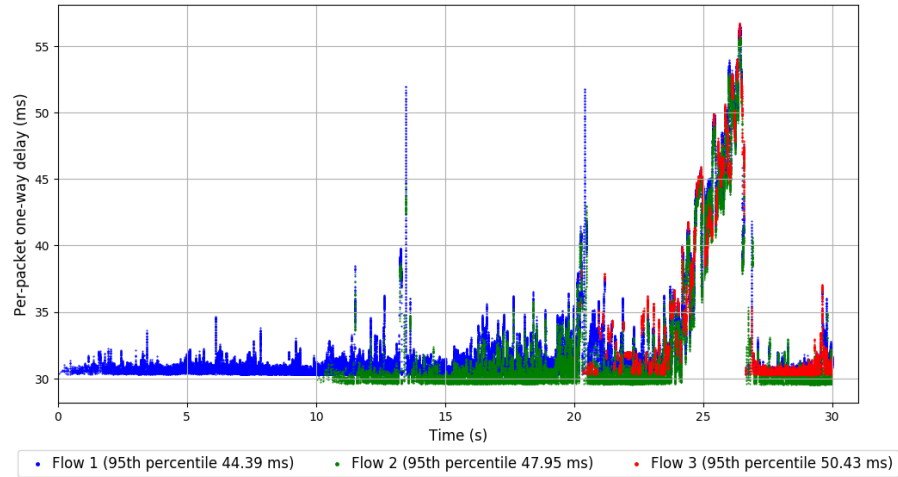
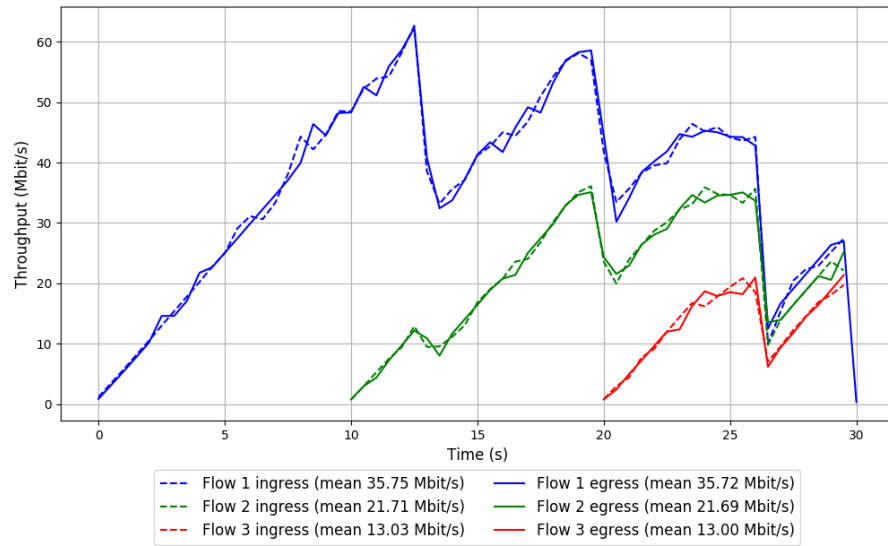
-- Flow 3:

Average throughput: 13.00 Mbit/s

95th percentile per-packet one-way delay: 50.433 ms

Loss rate: 0.28%

## Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-04-17 21:36:31

End at: 2018-04-17 21:37:01

Local clock offset: -0.213 ms

Remote clock offset: 0.834 ms

# Below is generated by plot.py at 2018-04-17 22:10:14

# Datalink statistics

-- Total of 3 flows:

Average throughput: 64.28 Mbit/s

95th percentile per-packet one-way delay: 63.648 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 35.25 Mbit/s

95th percentile per-packet one-way delay: 56.408 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 36.55 Mbit/s

95th percentile per-packet one-way delay: 65.078 ms

Loss rate: 0.07%

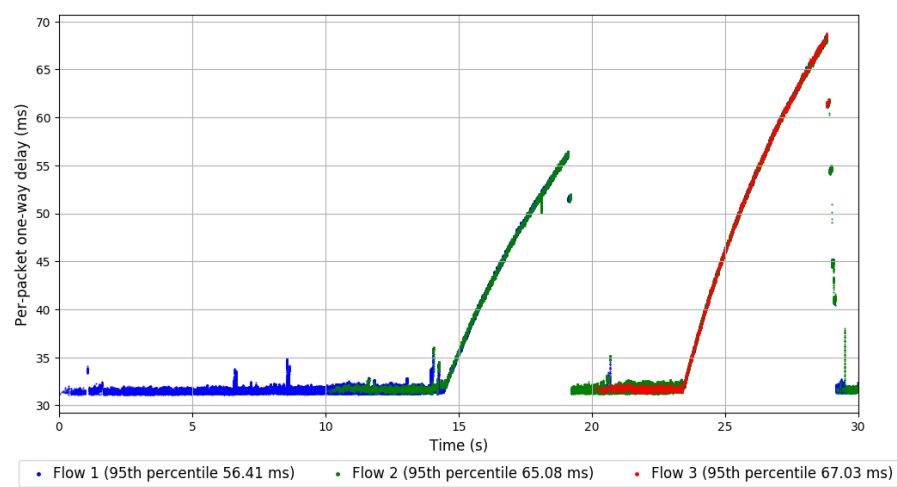
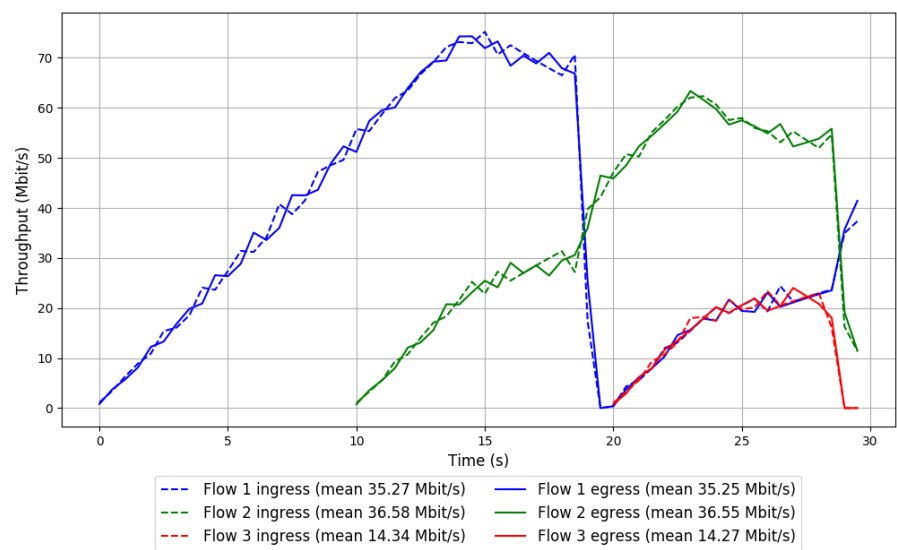
-- Flow 3:

Average throughput: 14.27 Mbit/s

95th percentile per-packet one-way delay: 67.033 ms

Loss rate: 0.49%

Run 10: Report of LEDBAT — Data Link

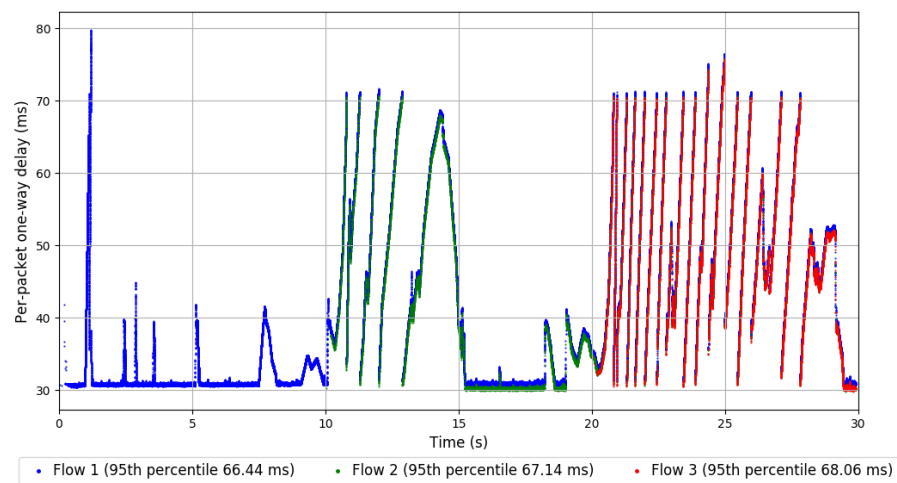
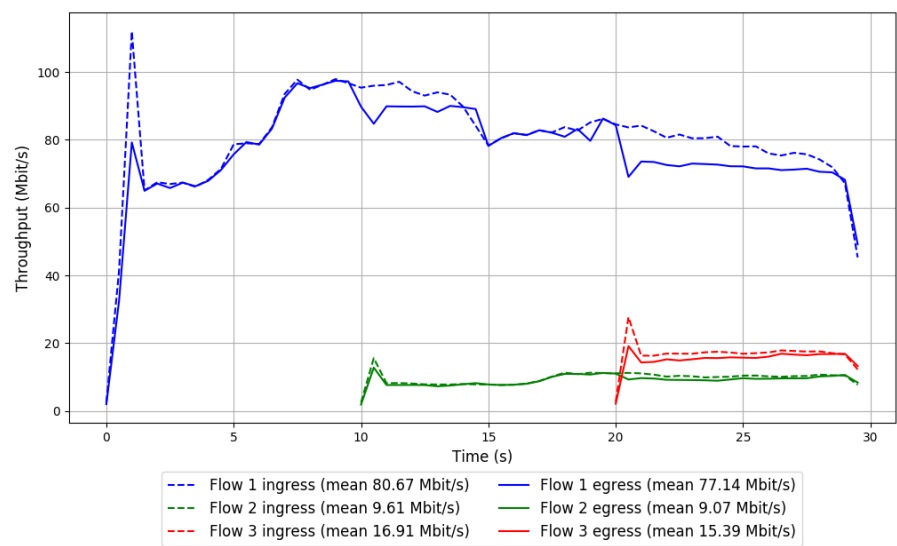


Run 1: Statistics of PCC-Allegro

Start at: 2018-04-17 17:25:34  
End at: 2018-04-17 17:26:04  
Local clock offset: 1.281 ms  
Remote clock offset: -2.451 ms

# Below is generated by plot.py at 2018-04-17 22:10:53  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 88.25 Mbit/s  
95th percentile per-packet one-way delay: 66.639 ms  
Loss rate: 4.75%  
-- Flow 1:  
Average throughput: 77.14 Mbit/s  
95th percentile per-packet one-way delay: 66.436 ms  
Loss rate: 4.39%  
-- Flow 2:  
Average throughput: 9.07 Mbit/s  
95th percentile per-packet one-way delay: 67.140 ms  
Loss rate: 5.58%  
-- Flow 3:  
Average throughput: 15.39 Mbit/s  
95th percentile per-packet one-way delay: 68.059 ms  
Loss rate: 9.03%

Run 1: Report of PCC-Allegro — Data Link

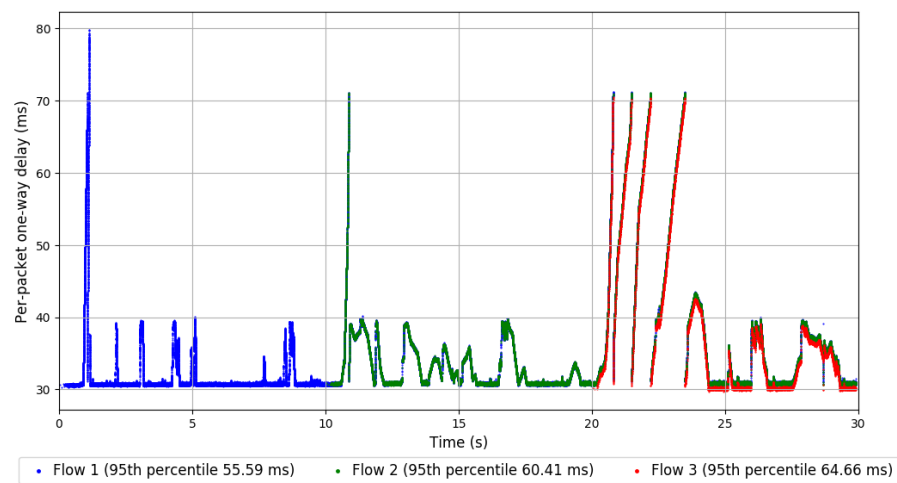
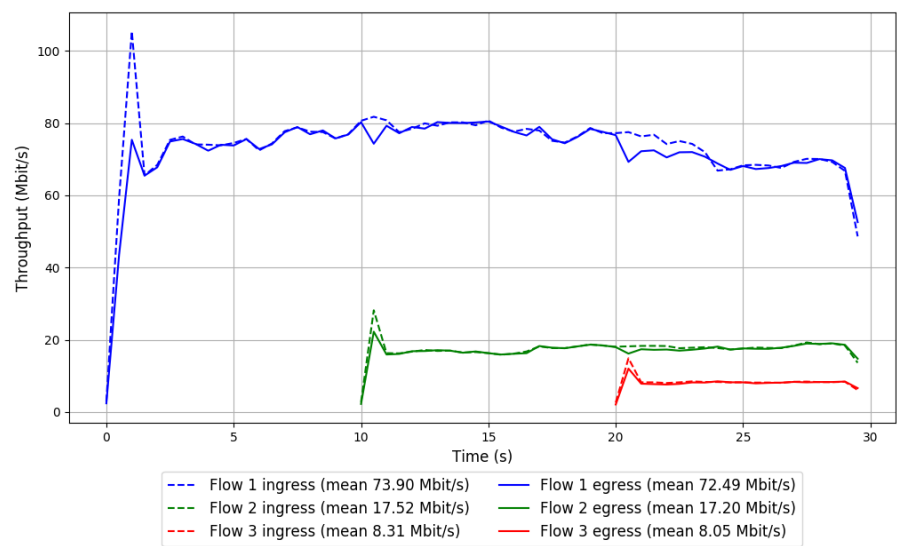


Run 2: Statistics of PCC-Allegro

Start at: 2018-04-17 17:50:12  
End at: 2018-04-17 17:50:42  
Local clock offset: 2.323 ms  
Remote clock offset: -2.469 ms

# Below is generated by plot.py at 2018-04-17 22:10:55  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 86.58 Mbit/s  
95th percentile per-packet one-way delay: 57.285 ms  
Loss rate: 1.93%  
-- Flow 1:  
Average throughput: 72.49 Mbit/s  
95th percentile per-packet one-way delay: 55.585 ms  
Loss rate: 1.90%  
-- Flow 2:  
Average throughput: 17.20 Mbit/s  
95th percentile per-packet one-way delay: 60.412 ms  
Loss rate: 1.85%  
-- Flow 3:  
Average throughput: 8.05 Mbit/s  
95th percentile per-packet one-way delay: 64.664 ms  
Loss rate: 3.19%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2018-04-17 18:14:06

End at: 2018-04-17 18:14:36

Local clock offset: 5.594 ms

Remote clock offset: 7.389 ms

# Below is generated by plot.py at 2018-04-17 22:10:56

# Datalink statistics

-- Total of 3 flows:

Average throughput: 85.74 Mbit/s

95th percentile per-packet one-way delay: 53.352 ms

Loss rate: 2.29%

-- Flow 1:

Average throughput: 77.39 Mbit/s

95th percentile per-packet one-way delay: 52.225 ms

Loss rate: 2.28%

-- Flow 2:

Average throughput: 8.54 Mbit/s

95th percentile per-packet one-way delay: 54.883 ms

Loss rate: 1.73%

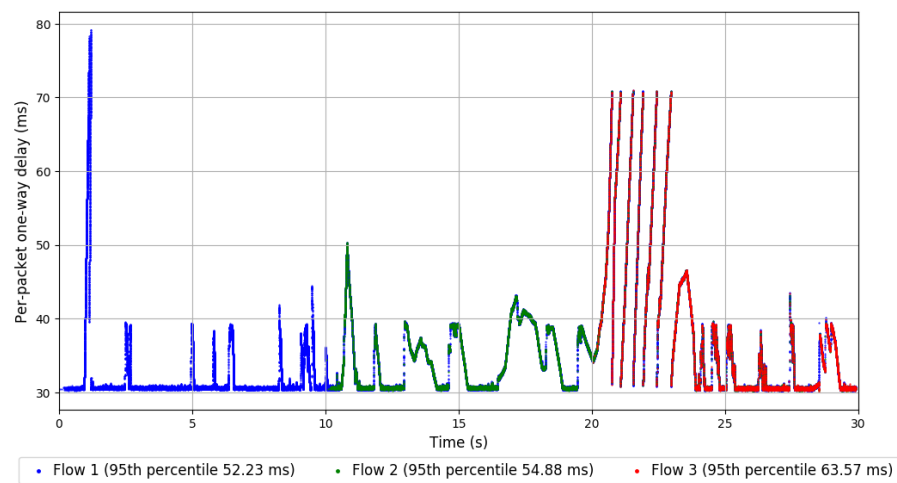
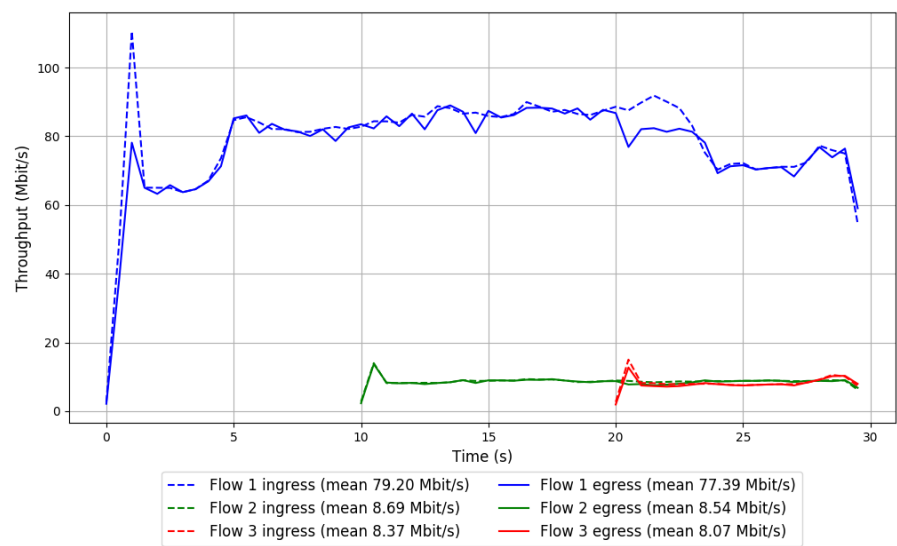
-- Flow 3:

Average throughput: 8.07 Mbit/s

95th percentile per-packet one-way delay: 63.570 ms

Loss rate: 3.69%

Run 3: Report of PCC-Allegro — Data Link

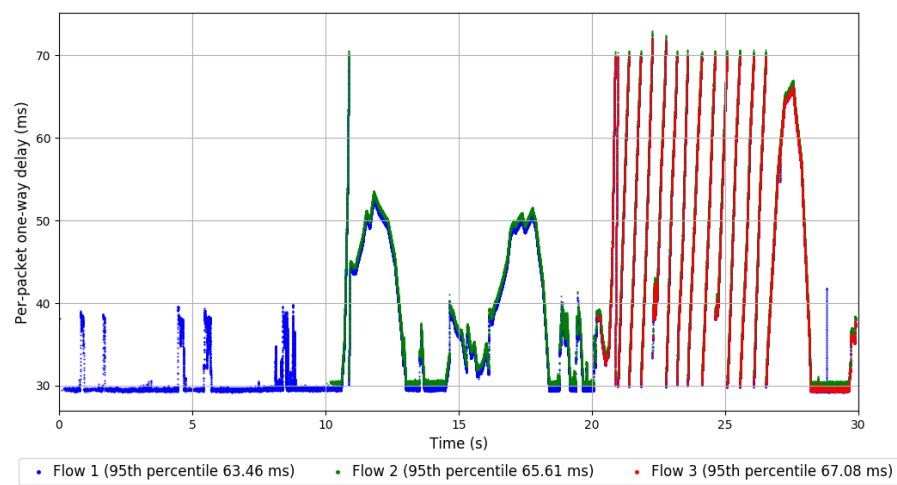
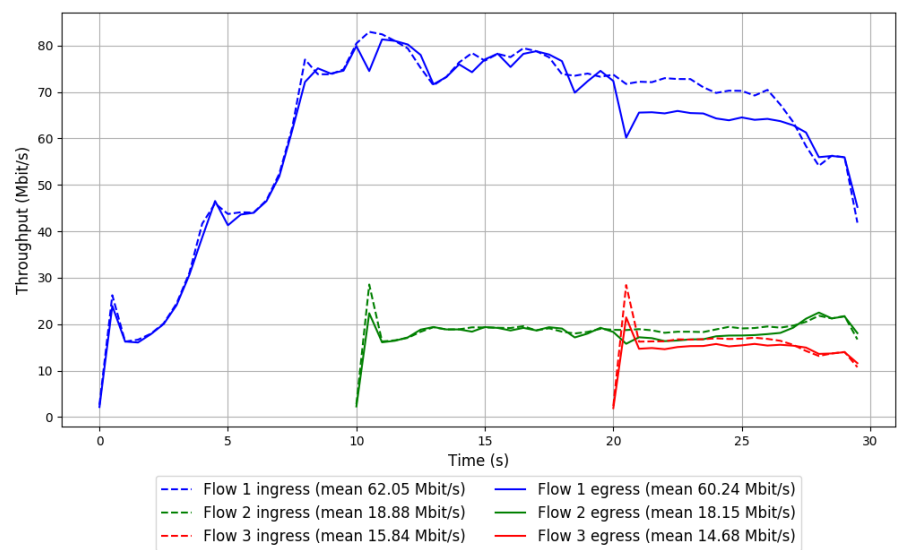


Run 4: Statistics of PCC-Allegro

Start at: 2018-04-17 18:38:20  
End at: 2018-04-17 18:38:50  
Local clock offset: 2.723 ms  
Remote clock offset: 12.837 ms

# Below is generated by plot.py at 2018-04-17 22:10:56  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 77.16 Mbit/s  
95th percentile per-packet one-way delay: 64.551 ms  
Loss rate: 3.35%  
-- Flow 1:  
Average throughput: 60.24 Mbit/s  
95th percentile per-packet one-way delay: 63.463 ms  
Loss rate: 2.92%  
-- Flow 2:  
Average throughput: 18.15 Mbit/s  
95th percentile per-packet one-way delay: 65.607 ms  
Loss rate: 3.86%  
-- Flow 3:  
Average throughput: 14.68 Mbit/s  
95th percentile per-packet one-way delay: 67.082 ms  
Loss rate: 7.27%

Run 4: Report of PCC-Allegro — Data Link

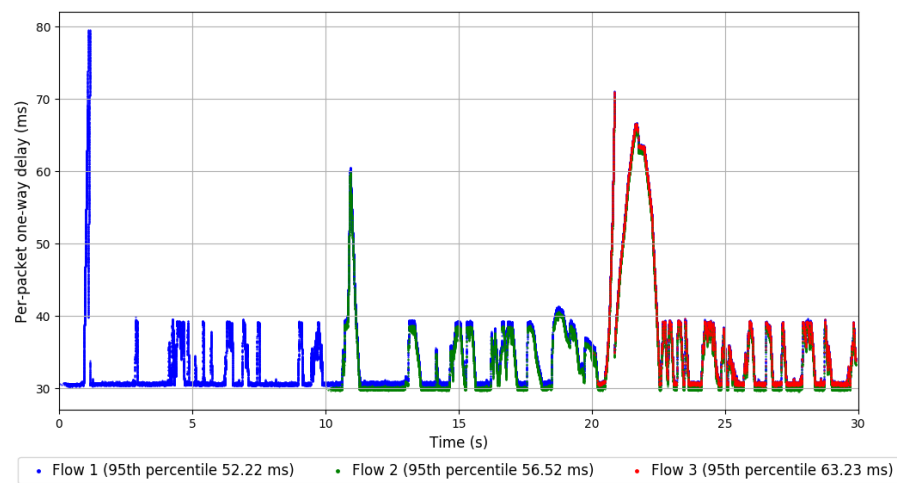
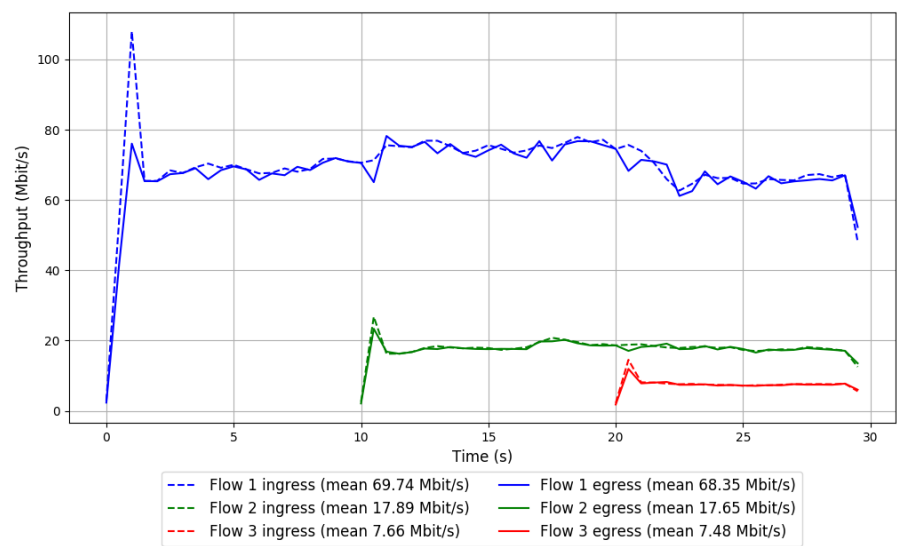


Run 5: Statistics of PCC-Allegro

Start at: 2018-04-17 19:02:33  
End at: 2018-04-17 19:03:03  
Local clock offset: -0.945 ms  
Remote clock offset: 15.646 ms

# Below is generated by plot.py at 2018-04-17 22:10:57  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 82.55 Mbit/s  
95th percentile per-packet one-way delay: 54.142 ms  
Loss rate: 1.90%  
-- Flow 1:  
Average throughput: 68.35 Mbit/s  
95th percentile per-packet one-way delay: 52.220 ms  
Loss rate: 1.99%  
-- Flow 2:  
Average throughput: 17.65 Mbit/s  
95th percentile per-packet one-way delay: 56.523 ms  
Loss rate: 1.31%  
-- Flow 3:  
Average throughput: 7.48 Mbit/s  
95th percentile per-packet one-way delay: 63.226 ms  
Loss rate: 2.40%

Run 5: Report of PCC-Allegro — Data Link

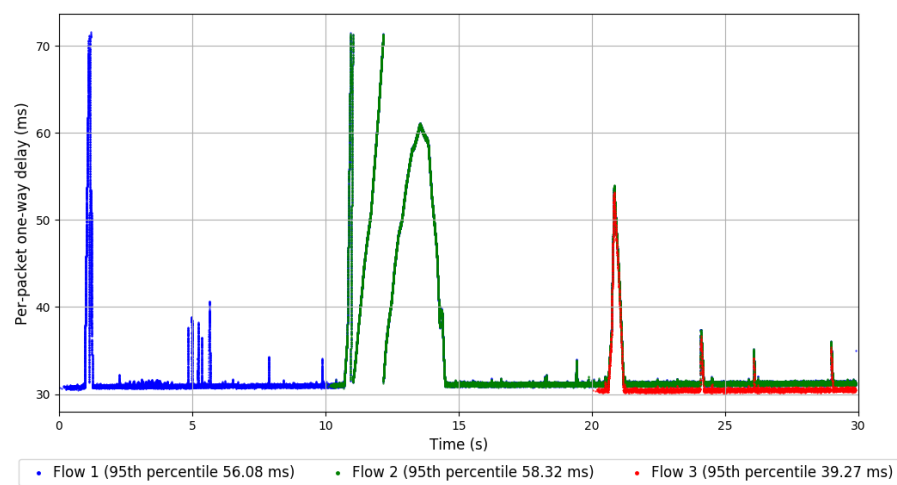
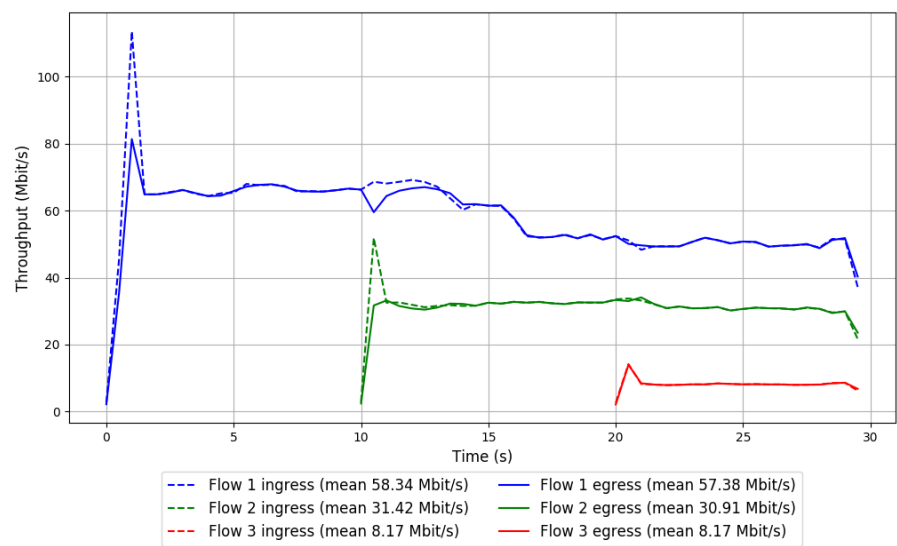


Run 6: Statistics of PCC-Allegro

Start at: 2018-04-17 19:26:36  
End at: 2018-04-17 19:27:06  
Local clock offset: 0.779 ms  
Remote clock offset: -3.368 ms

# Below is generated by plot.py at 2018-04-17 22:11:06  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 80.63 Mbit/s  
95th percentile per-packet one-way delay: 56.522 ms  
Loss rate: 1.58%  
-- Flow 1:  
Average throughput: 57.38 Mbit/s  
95th percentile per-packet one-way delay: 56.083 ms  
Loss rate: 1.63%  
-- Flow 2:  
Average throughput: 30.91 Mbit/s  
95th percentile per-packet one-way delay: 58.320 ms  
Loss rate: 1.63%  
-- Flow 3:  
Average throughput: 8.17 Mbit/s  
95th percentile per-packet one-way delay: 39.272 ms  
Loss rate: 0.00%

Run 6: Report of PCC-Allegro — Data Link

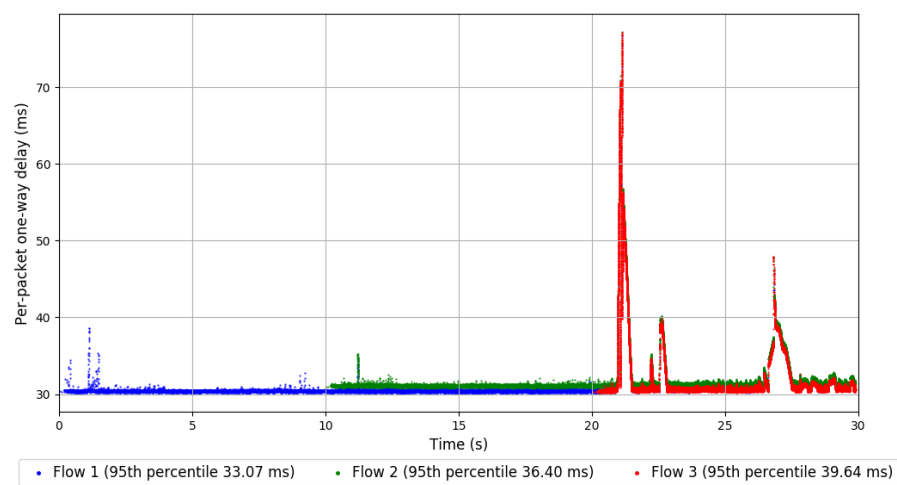
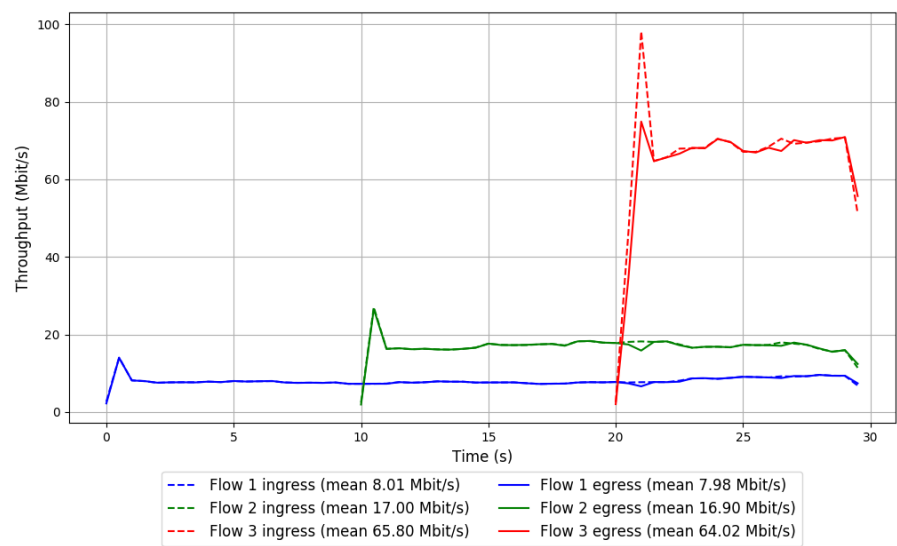


Run 7: Statistics of PCC-Allegro

Start at: 2018-04-17 19:55:05  
End at: 2018-04-17 19:55:35  
Local clock offset: -0.073 ms  
Remote clock offset: -8.501 ms

# Below is generated by plot.py at 2018-04-17 22:11:06  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 40.33 Mbit/s  
95th percentile per-packet one-way delay: 38.412 ms  
Loss rate: 1.66%  
-- Flow 1:  
Average throughput: 7.98 Mbit/s  
95th percentile per-packet one-way delay: 33.070 ms  
Loss rate: 0.38%  
-- Flow 2:  
Average throughput: 16.90 Mbit/s  
95th percentile per-packet one-way delay: 36.397 ms  
Loss rate: 0.58%  
-- Flow 3:  
Average throughput: 64.02 Mbit/s  
95th percentile per-packet one-way delay: 39.641 ms  
Loss rate: 2.70%

Run 7: Report of PCC-Allegro — Data Link

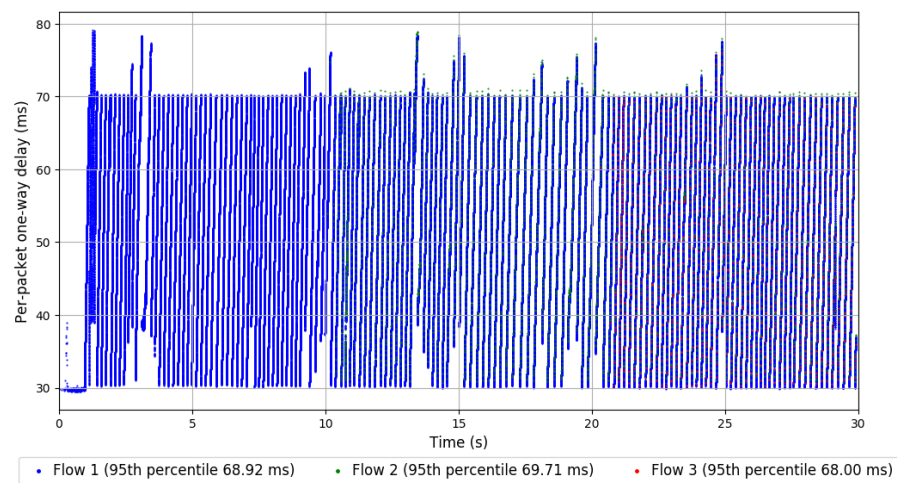
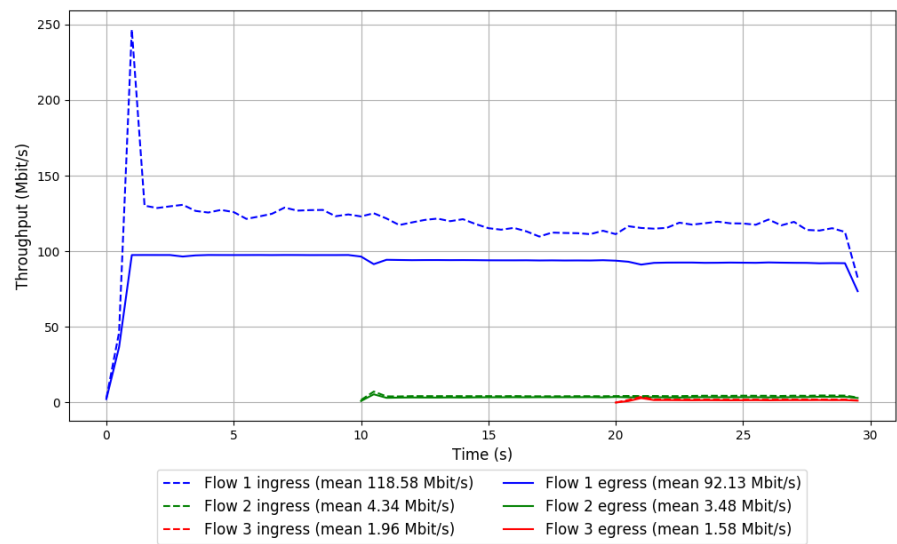


Run 8: Statistics of PCC-Allegro

Start at: 2018-04-17 20:23:50  
End at: 2018-04-17 20:24:20  
Local clock offset: -0.301 ms  
Remote clock offset: -6.944 ms

```
# Below is generated by plot.py at 2018-04-17 22:11:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.95 Mbit/s
95th percentile per-packet one-way delay: 68.930 ms
Loss rate: 22.23%
-- Flow 1:
Average throughput: 92.13 Mbit/s
95th percentile per-packet one-way delay: 68.916 ms
Loss rate: 22.29%
-- Flow 2:
Average throughput: 3.48 Mbit/s
95th percentile per-packet one-way delay: 69.708 ms
Loss rate: 19.79%
-- Flow 3:
Average throughput: 1.58 Mbit/s
95th percentile per-packet one-way delay: 68.001 ms
Loss rate: 21.63%
```

Run 8: Report of PCC-Allegro — Data Link

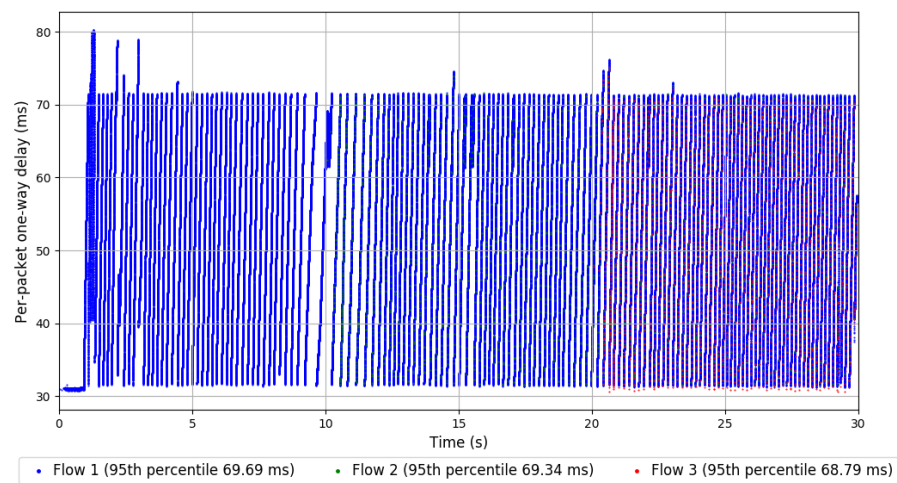
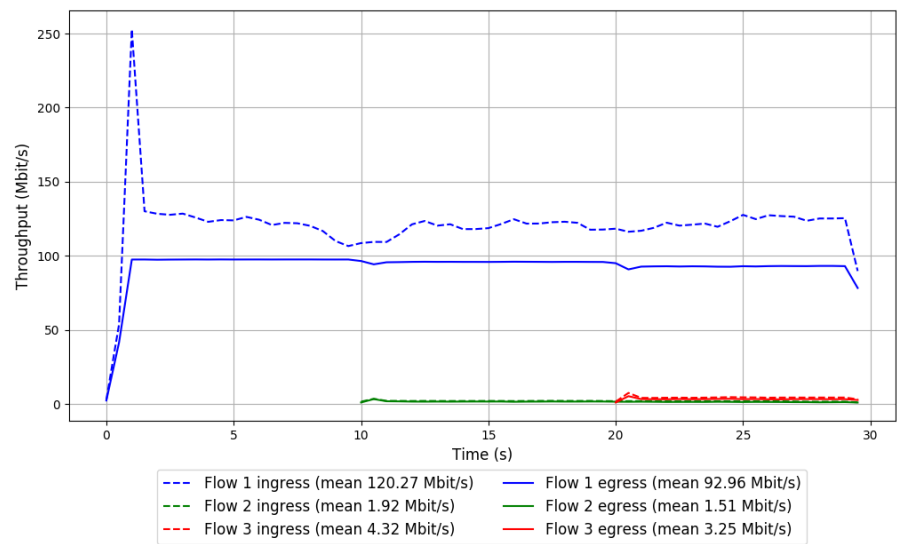


Run 9: Statistics of PCC-Allegro

Start at: 2018-04-17 20:52:38  
End at: 2018-04-17 20:53:08  
Local clock offset: -0.123 ms  
Remote clock offset: -0.887 ms

# Below is generated by plot.py at 2018-04-17 22:12:27  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 95.04 Mbit/s  
95th percentile per-packet one-way delay: 69.674 ms  
Loss rate: 22.65%  
-- Flow 1:  
Average throughput: 92.96 Mbit/s  
95th percentile per-packet one-way delay: 69.689 ms  
Loss rate: 22.64%  
-- Flow 2:  
Average throughput: 1.51 Mbit/s  
95th percentile per-packet one-way delay: 69.343 ms  
Loss rate: 21.45%  
-- Flow 3:  
Average throughput: 3.25 Mbit/s  
95th percentile per-packet one-way delay: 68.792 ms  
Loss rate: 24.75%

Run 9: Report of PCC-Allegro — Data Link



Run 10: Statistics of PCC-Allegro

Start at: 2018-04-17 21:20:06

End at: 2018-04-17 21:20:36

Local clock offset: 0.207 ms

Remote clock offset: 6.598 ms

# Below is generated by plot.py at 2018-04-17 22:12:27

# Datalink statistics

-- Total of 3 flows:

Average throughput: 84.42 Mbit/s

95th percentile per-packet one-way delay: 61.638 ms

Loss rate: 1.92%

-- Flow 1:

Average throughput: 62.56 Mbit/s

95th percentile per-packet one-way delay: 61.411 ms

Loss rate: 1.89%

-- Flow 2:

Average throughput: 30.53 Mbit/s

95th percentile per-packet one-way delay: 61.855 ms

Loss rate: 2.09%

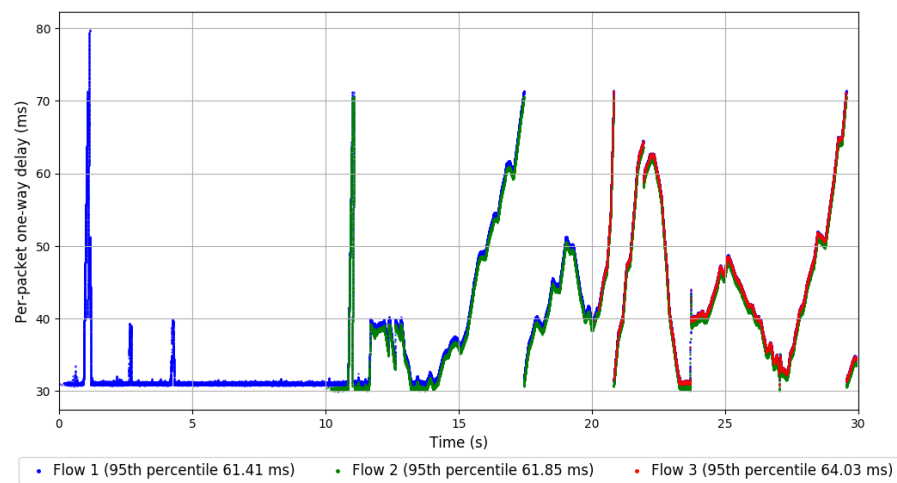
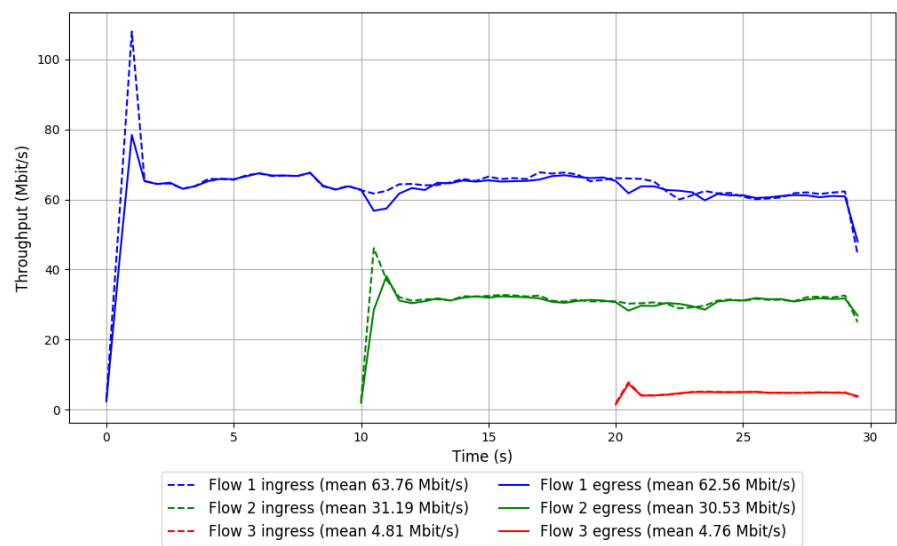
-- Flow 3:

Average throughput: 4.76 Mbit/s

95th percentile per-packet one-way delay: 64.034 ms

Loss rate: 1.13%

Run 10: Report of PCC-Allegro — Data Link

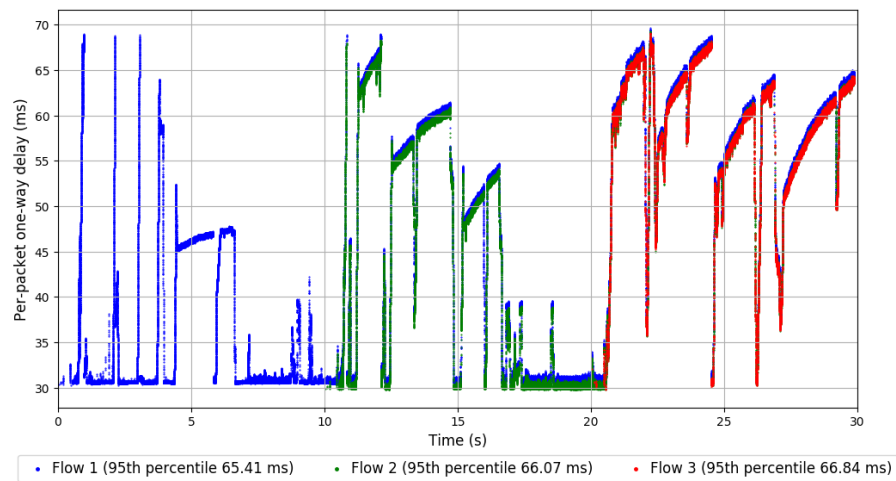
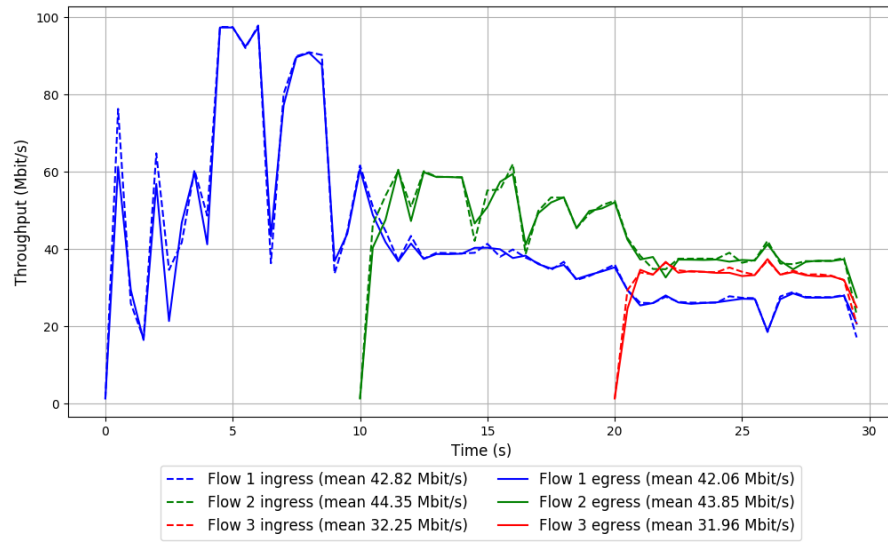


Run 1: Statistics of QUIC Cubic

Start at: 2018-04-17 17:43:14  
End at: 2018-04-17 17:43:44  
Local clock offset: 2.151 ms  
Remote clock offset: -2.299 ms

# Below is generated by plot.py at 2018-04-17 22:12:27  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 81.73 Mbit/s  
95th percentile per-packet one-way delay: 66.088 ms  
Loss rate: 1.28%  
-- Flow 1:  
Average throughput: 42.06 Mbit/s  
95th percentile per-packet one-way delay: 65.412 ms  
Loss rate: 1.66%  
-- Flow 2:  
Average throughput: 43.85 Mbit/s  
95th percentile per-packet one-way delay: 66.066 ms  
Loss rate: 0.96%  
-- Flow 3:  
Average throughput: 31.96 Mbit/s  
95th percentile per-packet one-way delay: 66.840 ms  
Loss rate: 0.60%

## Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-04-17 18:07:21

End at: 2018-04-17 18:07:51

Local clock offset: 4.813 ms

Remote clock offset: 3.302 ms

# Below is generated by plot.py at 2018-04-17 22:12:27

# Datalink statistics

-- Total of 3 flows:

Average throughput: 81.15 Mbit/s

95th percentile per-packet one-way delay: 62.408 ms

Loss rate: 1.04%

-- Flow 1:

Average throughput: 55.83 Mbit/s

95th percentile per-packet one-way delay: 62.827 ms

Loss rate: 0.97%

-- Flow 2:

Average throughput: 23.71 Mbit/s

95th percentile per-packet one-way delay: 61.889 ms

Loss rate: 1.47%

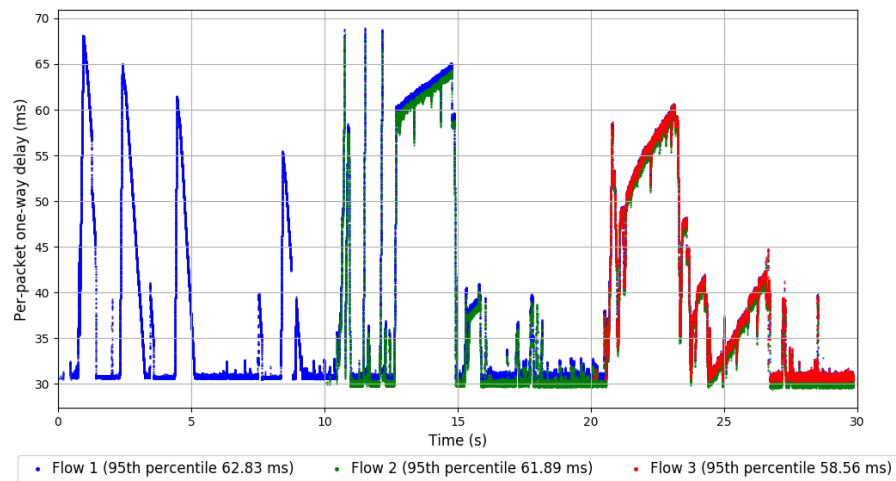
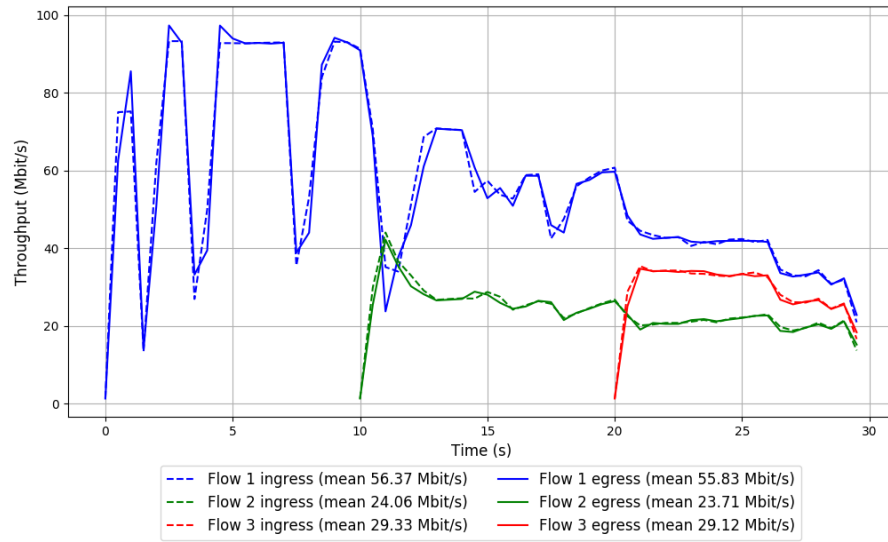
-- Flow 3:

Average throughput: 29.12 Mbit/s

95th percentile per-packet one-way delay: 58.558 ms

Loss rate: 0.73%

## Run 2: Report of QUIC Cubic — Data Link

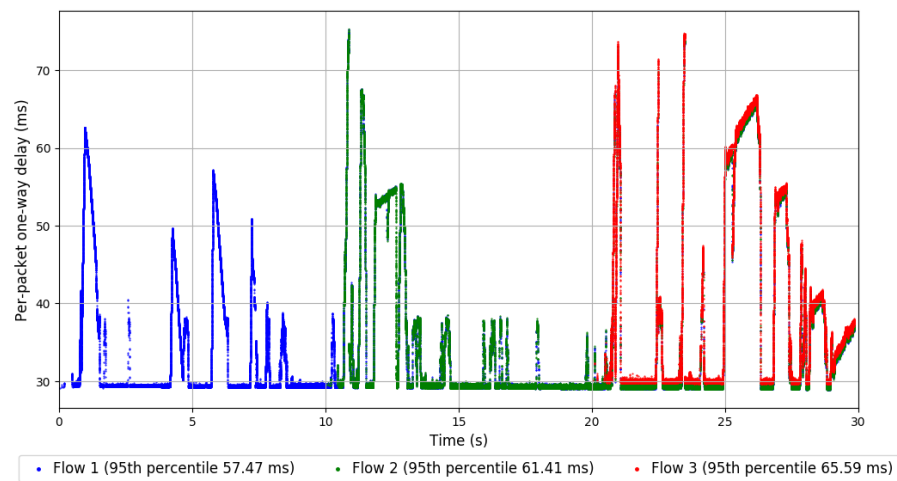
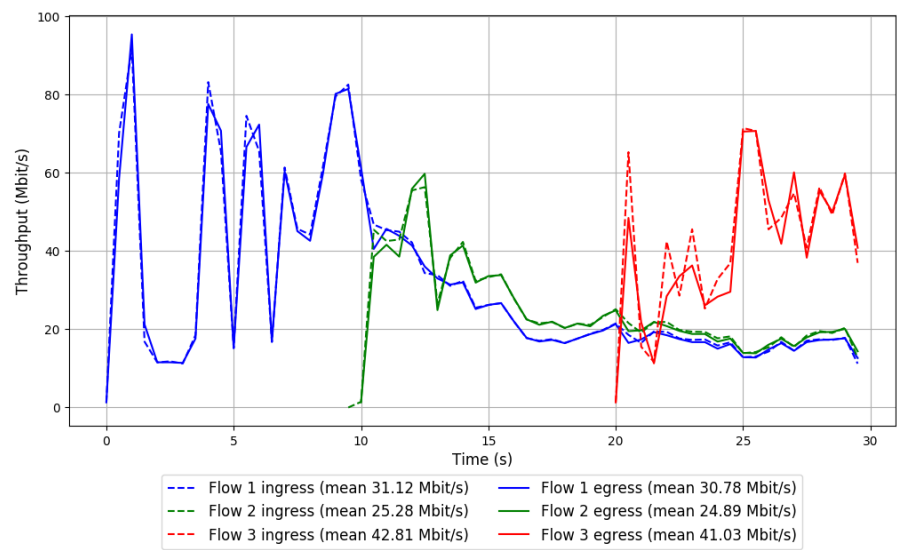


Run 3: Statistics of QUIC Cubic

Start at: 2018-04-17 18:31:25  
End at: 2018-04-17 18:31:55  
Local clock offset: 6.531 ms  
Remote clock offset: 11.904 ms

# Below is generated by plot.py at 2018-04-17 22:12:27  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 60.82 Mbit/s  
95th percentile per-packet one-way delay: 63.087 ms  
Loss rate: 1.89%  
-- Flow 1:  
Average throughput: 30.78 Mbit/s  
95th percentile per-packet one-way delay: 57.474 ms  
Loss rate: 1.10%  
-- Flow 2:  
Average throughput: 24.89 Mbit/s  
95th percentile per-packet one-way delay: 61.407 ms  
Loss rate: 1.54%  
-- Flow 3:  
Average throughput: 41.03 Mbit/s  
95th percentile per-packet one-way delay: 65.591 ms  
Loss rate: 4.08%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-04-17 18:55:39

End at: 2018-04-17 18:56:09

Local clock offset: -0.476 ms

Remote clock offset: 14.89 ms

# Below is generated by plot.py at 2018-04-17 22:12:27

# Datalink statistics

-- Total of 3 flows:

Average throughput: 57.65 Mbit/s

95th percentile per-packet one-way delay: 56.492 ms

Loss rate: 2.22%

-- Flow 1:

Average throughput: 30.95 Mbit/s

95th percentile per-packet one-way delay: 49.361 ms

Loss rate: 2.44%

-- Flow 2:

Average throughput: 34.24 Mbit/s

95th percentile per-packet one-way delay: 60.506 ms

Loss rate: 2.16%

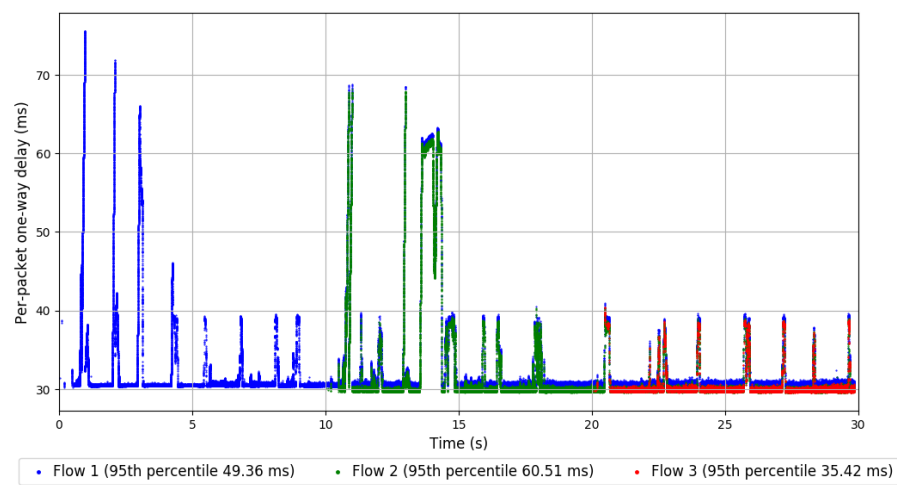
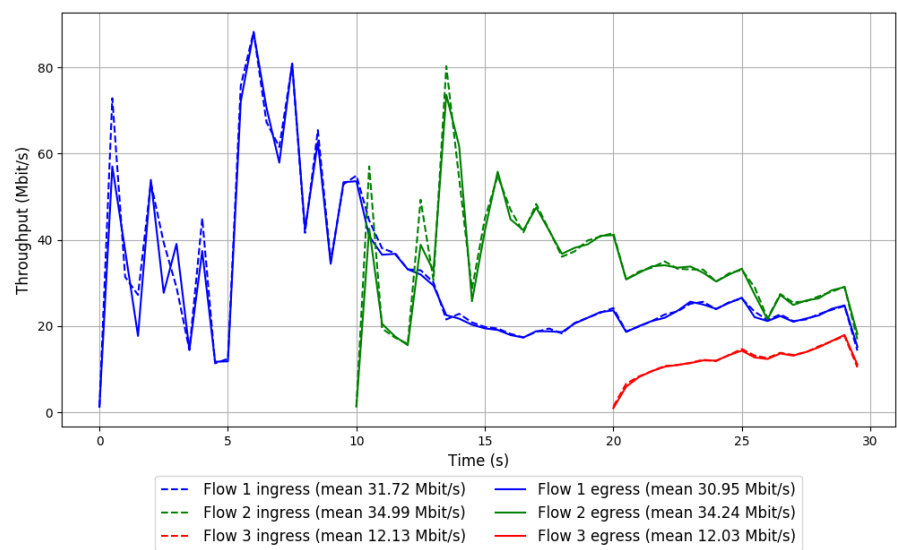
-- Flow 3:

Average throughput: 12.03 Mbit/s

95th percentile per-packet one-way delay: 35.418 ms

Loss rate: 0.86%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-04-17 19:19:44

End at: 2018-04-17 19:20:14

Local clock offset: 0.565 ms

Remote clock offset: 1.709 ms

# Below is generated by plot.py at 2018-04-17 22:12:36

# Datalink statistics

-- Total of 3 flows:

Average throughput: 82.59 Mbit/s

95th percentile per-packet one-way delay: 54.296 ms

Loss rate: 1.02%

-- Flow 1:

Average throughput: 50.02 Mbit/s

95th percentile per-packet one-way delay: 52.798 ms

Loss rate: 1.00%

-- Flow 2:

Average throughput: 27.08 Mbit/s

95th percentile per-packet one-way delay: 54.787 ms

Loss rate: 0.76%

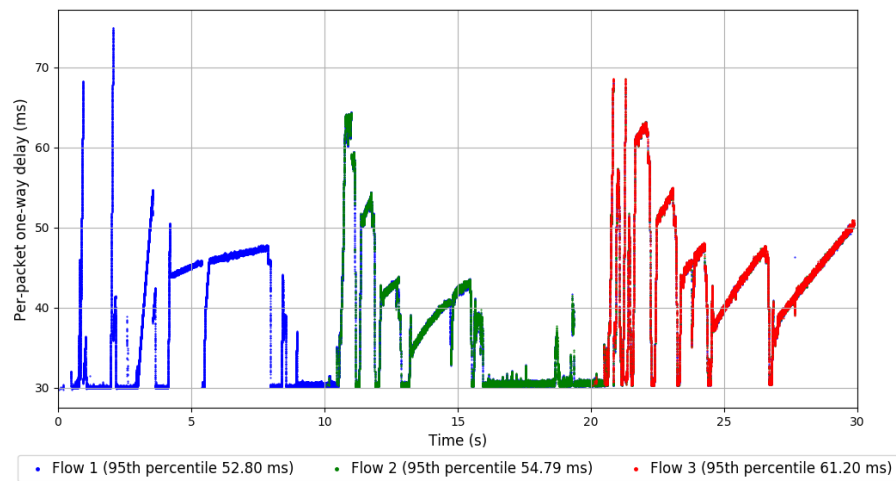
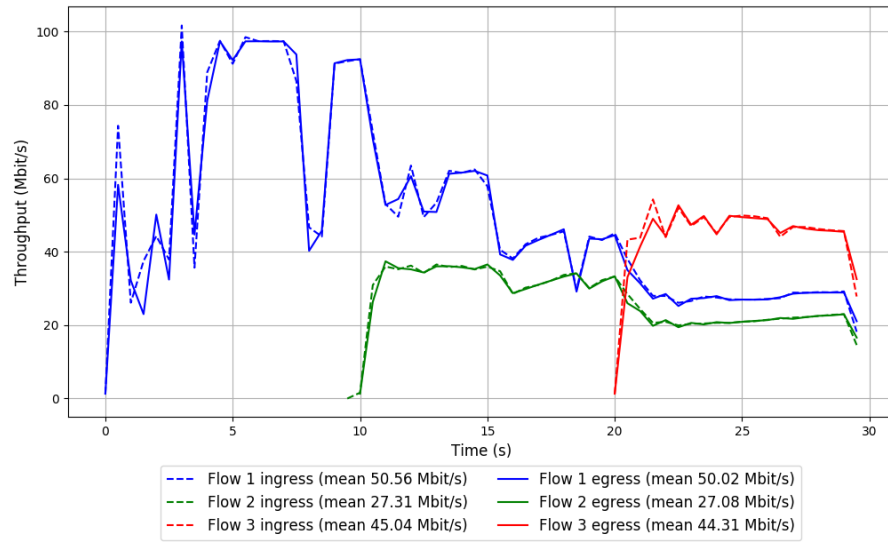
-- Flow 3:

Average throughput: 44.31 Mbit/s

95th percentile per-packet one-way delay: 61.203 ms

Loss rate: 1.41%

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

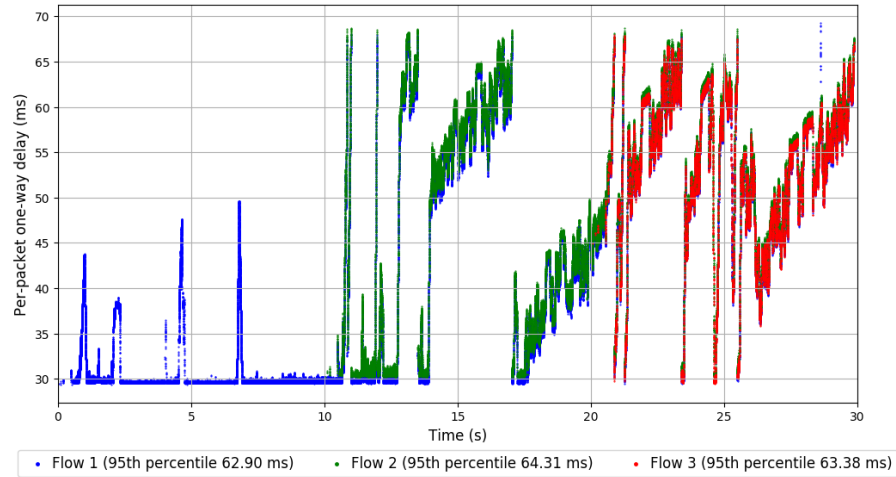
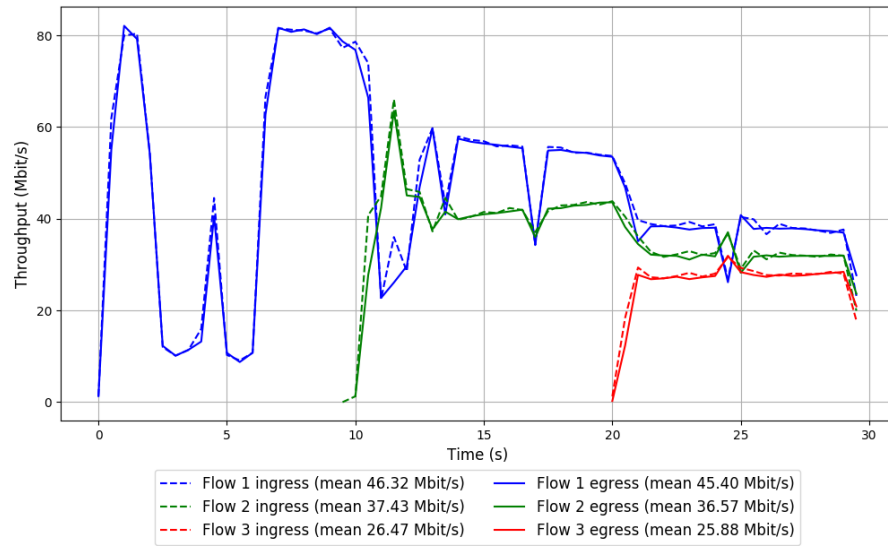


Run 6: Statistics of QUIC Cubic

Start at: 2018-04-17 19:47:06  
End at: 2018-04-17 19:47:36  
Local clock offset: 0.337 ms  
Remote clock offset: -9.836 ms

# Below is generated by plot.py at 2018-04-17 22:13:26  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 78.21 Mbit/s  
95th percentile per-packet one-way delay: 63.511 ms  
Loss rate: 1.96%  
-- Flow 1:  
Average throughput: 45.40 Mbit/s  
95th percentile per-packet one-way delay: 62.897 ms  
Loss rate: 1.86%  
-- Flow 2:  
Average throughput: 36.57 Mbit/s  
95th percentile per-packet one-way delay: 64.309 ms  
Loss rate: 2.12%  
-- Flow 3:  
Average throughput: 25.88 Mbit/s  
95th percentile per-packet one-way delay: 63.376 ms  
Loss rate: 2.02%

## Run 6: Report of QUIC Cubic — Data Link

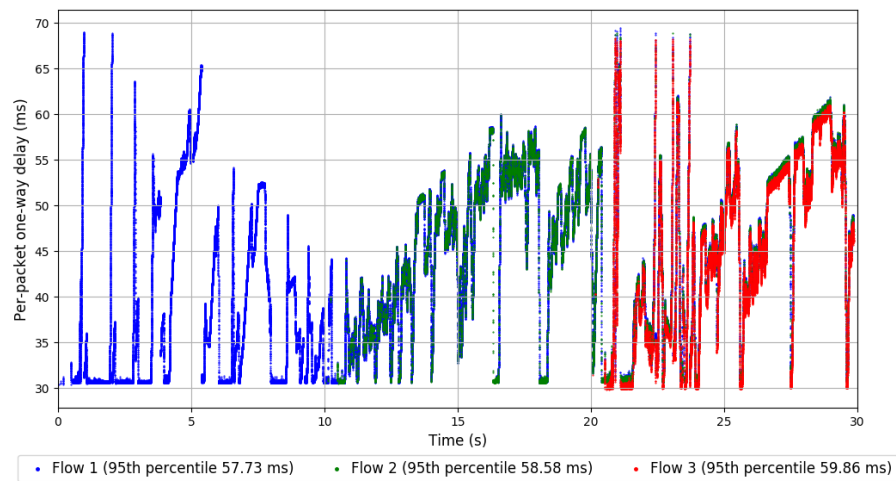
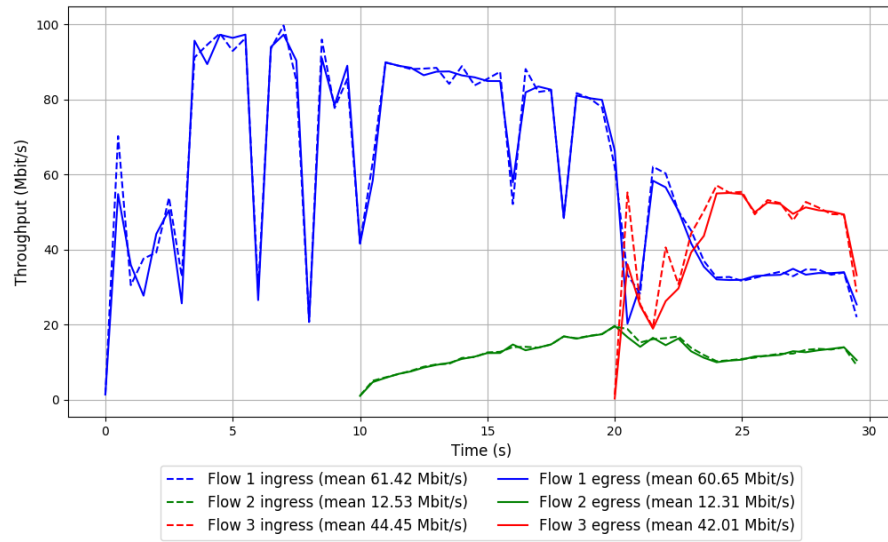


Run 7: Statistics of QUIC Cubic

Start at: 2018-04-17 20:16:02  
End at: 2018-04-17 20:16:32  
Local clock offset: -0.384 ms  
Remote clock offset: -11.437 ms

# Below is generated by plot.py at 2018-04-17 22:13:37  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 82.60 Mbit/s  
95th percentile per-packet one-way delay: 58.392 ms  
Loss rate: 1.96%  
-- Flow 1:  
Average throughput: 60.65 Mbit/s  
95th percentile per-packet one-way delay: 57.730 ms  
Loss rate: 1.20%  
-- Flow 2:  
Average throughput: 12.31 Mbit/s  
95th percentile per-packet one-way delay: 58.580 ms  
Loss rate: 1.65%  
-- Flow 3:  
Average throughput: 42.01 Mbit/s  
95th percentile per-packet one-way delay: 59.857 ms  
Loss rate: 5.34%

## Run 7: Report of QUIC Cubic — Data Link

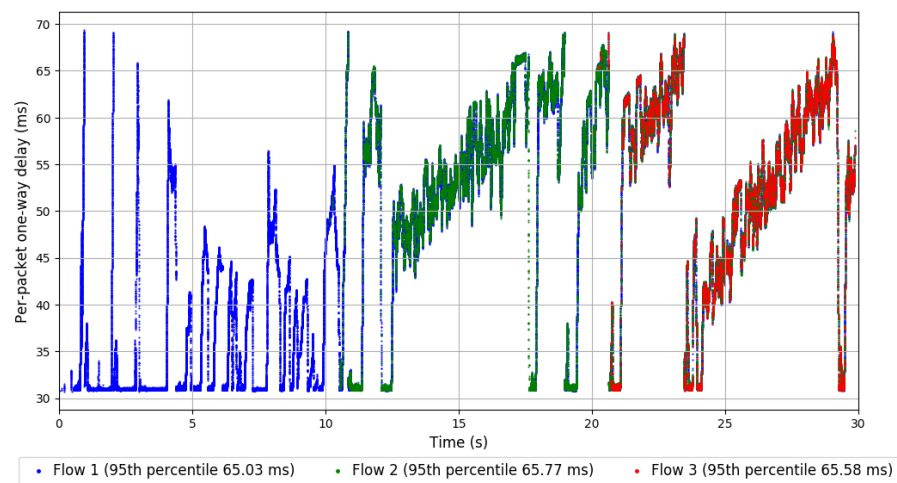
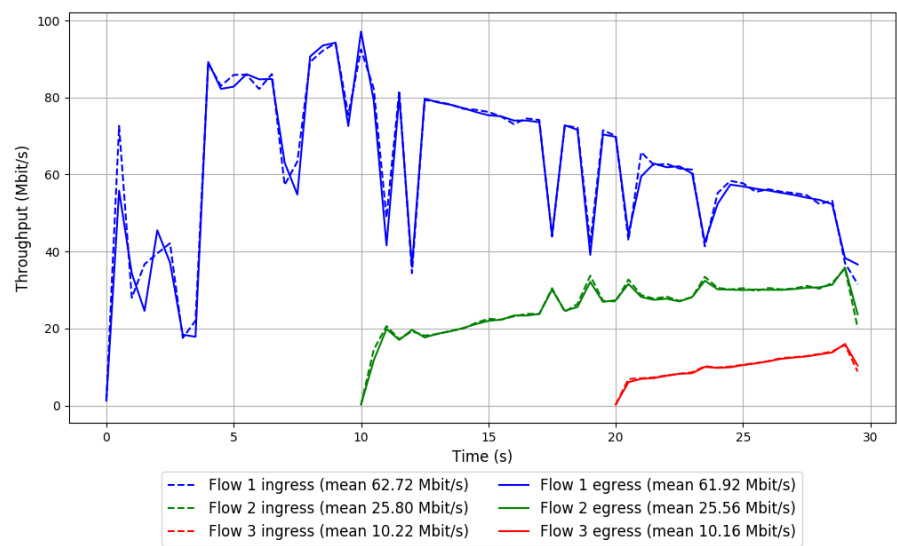


Run 8: Statistics of QUIC Cubic

Start at: 2018-04-17 20:44:20  
End at: 2018-04-17 20:44:50  
Local clock offset: -0.321 ms  
Remote clock offset: -1.181 ms

# Below is generated by plot.py at 2018-04-17 22:13:40  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 82.20 Mbit/s  
95th percentile per-packet one-way delay: 65.259 ms  
Loss rate: 1.10%  
-- Flow 1:  
Average throughput: 61.92 Mbit/s  
95th percentile per-packet one-way delay: 65.030 ms  
Loss rate: 1.19%  
-- Flow 2:  
Average throughput: 25.56 Mbit/s  
95th percentile per-packet one-way delay: 65.772 ms  
Loss rate: 0.89%  
-- Flow 3:  
Average throughput: 10.16 Mbit/s  
95th percentile per-packet one-way delay: 65.582 ms  
Loss rate: 0.54%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-04-17 21:12:28

End at: 2018-04-17 21:12:58

Local clock offset: 0.202 ms

Remote clock offset: 5.078 ms

# Below is generated by plot.py at 2018-04-17 22:13:54

# Datalink statistics

-- Total of 3 flows:

Average throughput: 83.10 Mbit/s

95th percentile per-packet one-way delay: 64.468 ms

Loss rate: 1.58%

-- Flow 1:

Average throughput: 60.18 Mbit/s

95th percentile per-packet one-way delay: 64.617 ms

Loss rate: 1.54%

-- Flow 2:

Average throughput: 21.46 Mbit/s

95th percentile per-packet one-way delay: 64.118 ms

Loss rate: 1.55%

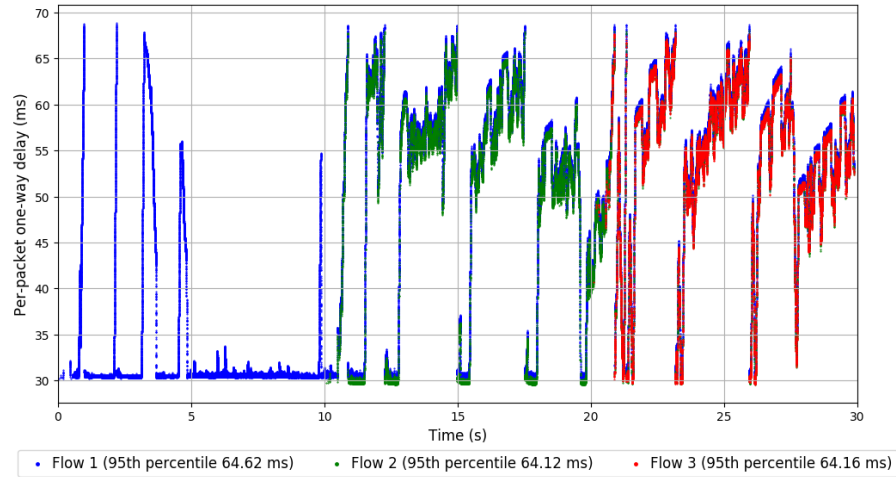
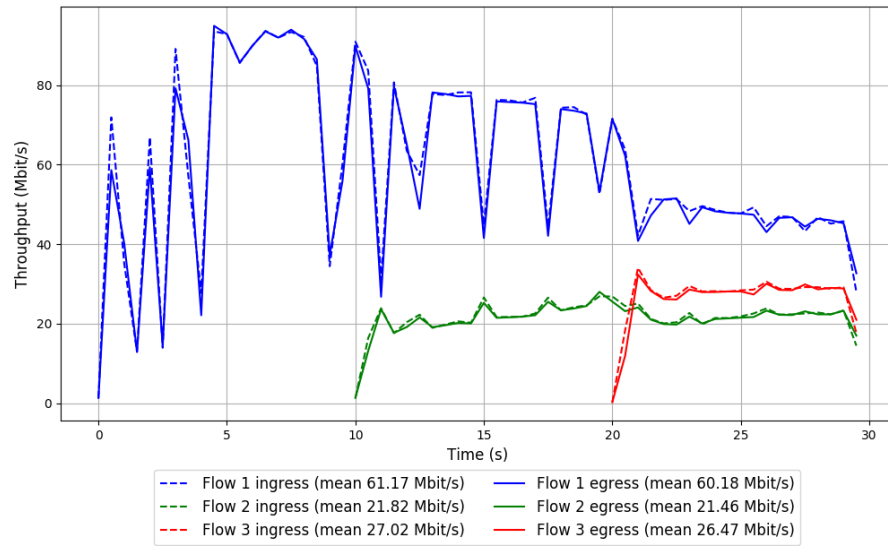
-- Flow 3:

Average throughput: 26.47 Mbit/s

95th percentile per-packet one-way delay: 64.158 ms

Loss rate: 1.92%

### Run 9: Report of QUIC Cubic — Data Link

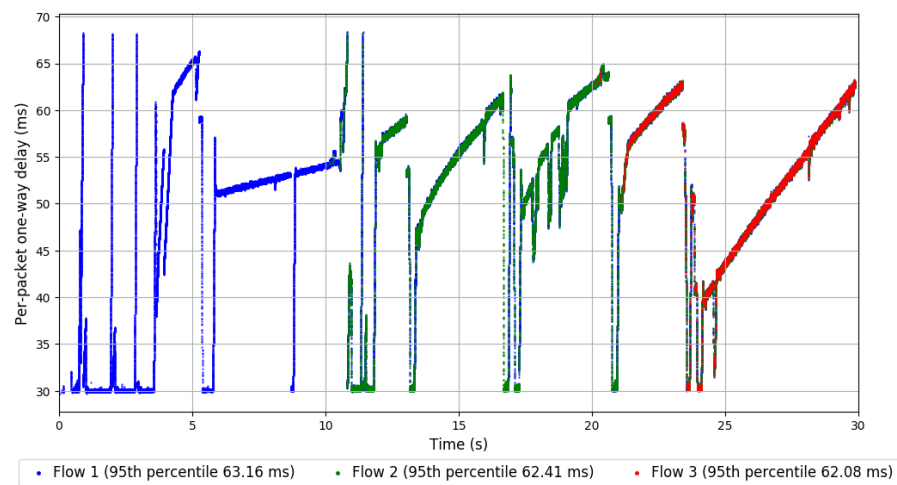
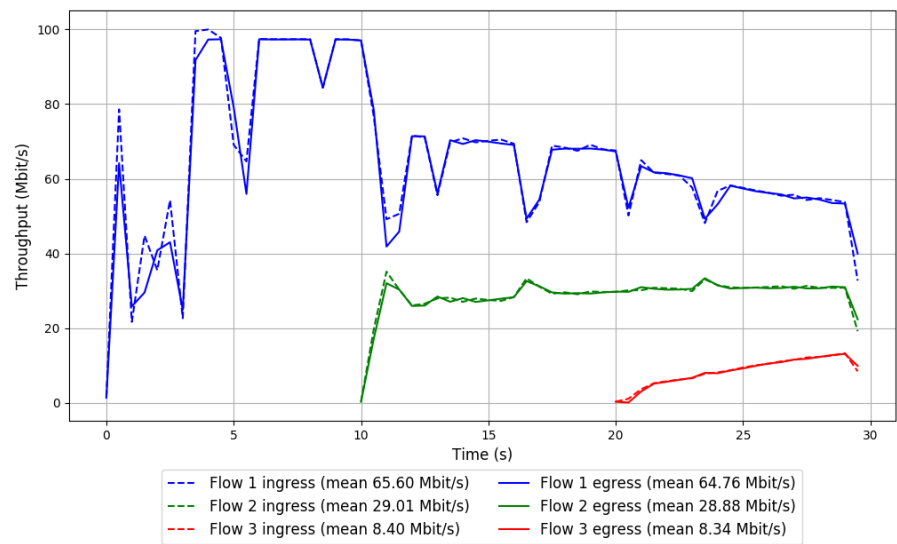


Run 10: Statistics of QUIC Cubic

Start at: 2018-04-17 21:37:56  
End at: 2018-04-17 21:38:26  
Local clock offset: -0.307 ms  
Remote clock offset: -0.252 ms

# Below is generated by plot.py at 2018-04-17 22:13:58  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 86.65 Mbit/s  
95th percentile per-packet one-way delay: 62.874 ms  
Loss rate: 0.99%  
-- Flow 1:  
Average throughput: 64.76 Mbit/s  
95th percentile per-packet one-way delay: 63.160 ms  
Loss rate: 1.17%  
-- Flow 2:  
Average throughput: 28.88 Mbit/s  
95th percentile per-packet one-way delay: 62.415 ms  
Loss rate: 0.41%  
-- Flow 3:  
Average throughput: 8.34 Mbit/s  
95th percentile per-packet one-way delay: 62.078 ms  
Loss rate: 0.76%

Run 10: Report of QUIC Cubic — Data Link

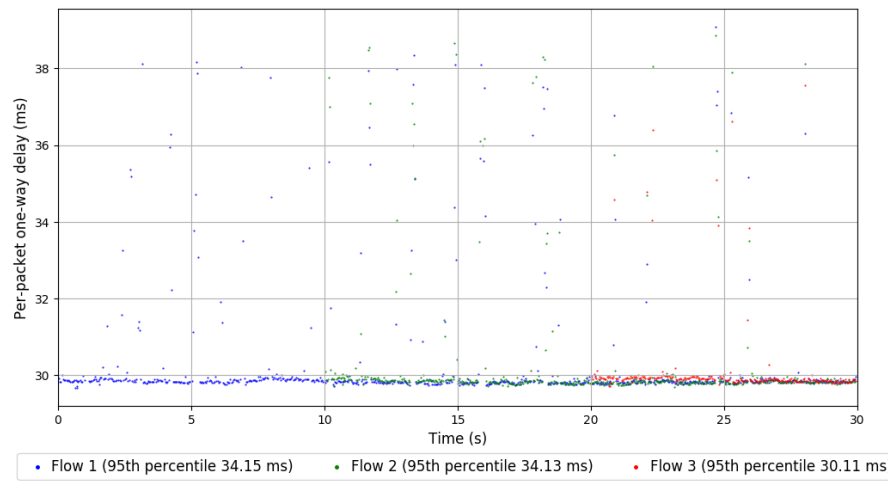
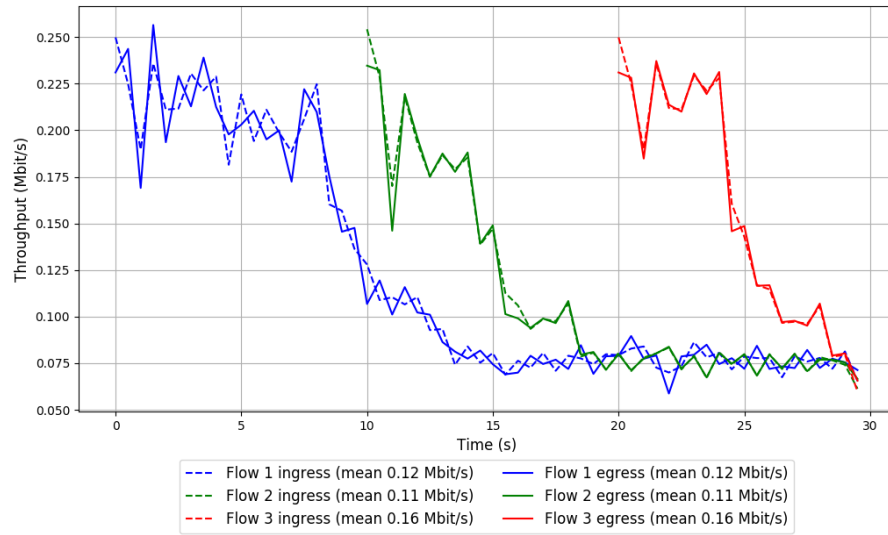


Run 1: Statistics of SCReAM

Start at: 2018-04-17 17:29:55  
End at: 2018-04-17 17:30:25  
Local clock offset: 1.673 ms  
Remote clock offset: -2.383 ms

# Below is generated by plot.py at 2018-04-17 22:13:58  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.25 Mbit/s  
95th percentile per-packet one-way delay: 33.948 ms  
Loss rate: 0.62%  
-- Flow 1:  
Average throughput: 0.12 Mbit/s  
95th percentile per-packet one-way delay: 34.146 ms  
Loss rate: 0.51%  
-- Flow 2:  
Average throughput: 0.11 Mbit/s  
95th percentile per-packet one-way delay: 34.134 ms  
Loss rate: 0.92%  
-- Flow 3:  
Average throughput: 0.16 Mbit/s  
95th percentile per-packet one-way delay: 30.109 ms  
Loss rate: 0.47%

## Run 1: Report of SReAM — Data Link

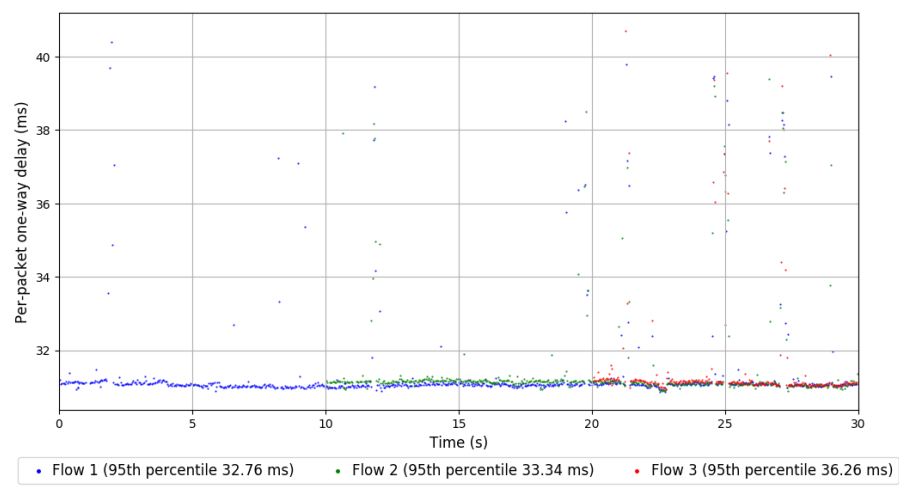
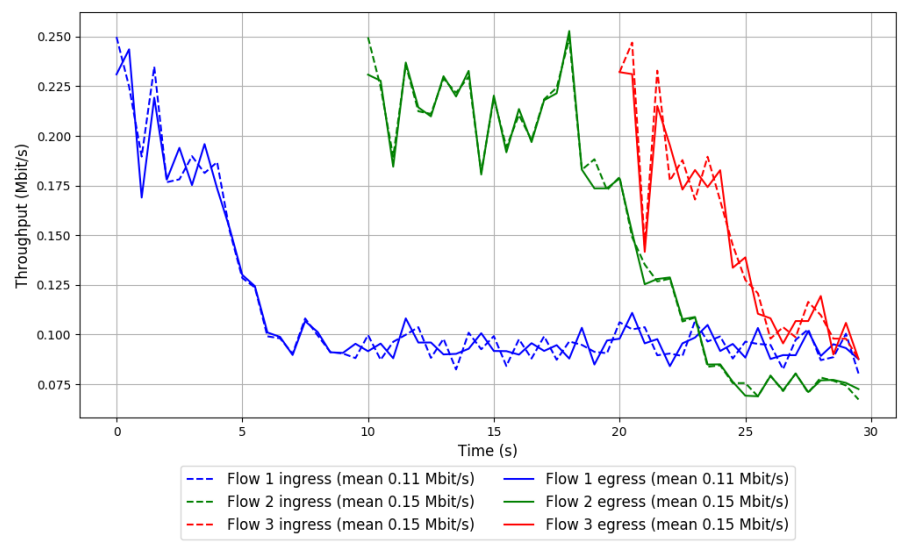


Run 2: Statistics of SCReAM

Start at: 2018-04-17 17:54:25  
End at: 2018-04-17 17:54:55  
Local clock offset: 2.535 ms  
Remote clock offset: -2.074 ms

# Below is generated by plot.py at 2018-04-17 22:13:58  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.26 Mbit/s  
95th percentile per-packet one-way delay: 33.335 ms  
Loss rate: 0.45%  
-- Flow 1:  
Average throughput: 0.11 Mbit/s  
95th percentile per-packet one-way delay: 32.763 ms  
Loss rate: 0.28%  
-- Flow 2:  
Average throughput: 0.15 Mbit/s  
95th percentile per-packet one-way delay: 33.335 ms  
Loss rate: 0.54%  
-- Flow 3:  
Average throughput: 0.15 Mbit/s  
95th percentile per-packet one-way delay: 36.262 ms  
Loss rate: 0.65%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-04-17 18:18:09

End at: 2018-04-17 18:18:39

Local clock offset: 5.957 ms

Remote clock offset: 8.863 ms

# Below is generated by plot.py at 2018-04-17 22:13:58

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 30.583 ms

Loss rate: 0.67%

-- Flow 1:

Average throughput: 0.09 Mbit/s

95th percentile per-packet one-way delay: 30.663 ms

Loss rate: 0.44%

-- Flow 2:

Average throughput: 0.10 Mbit/s

95th percentile per-packet one-way delay: 30.677 ms

Loss rate: 1.06%

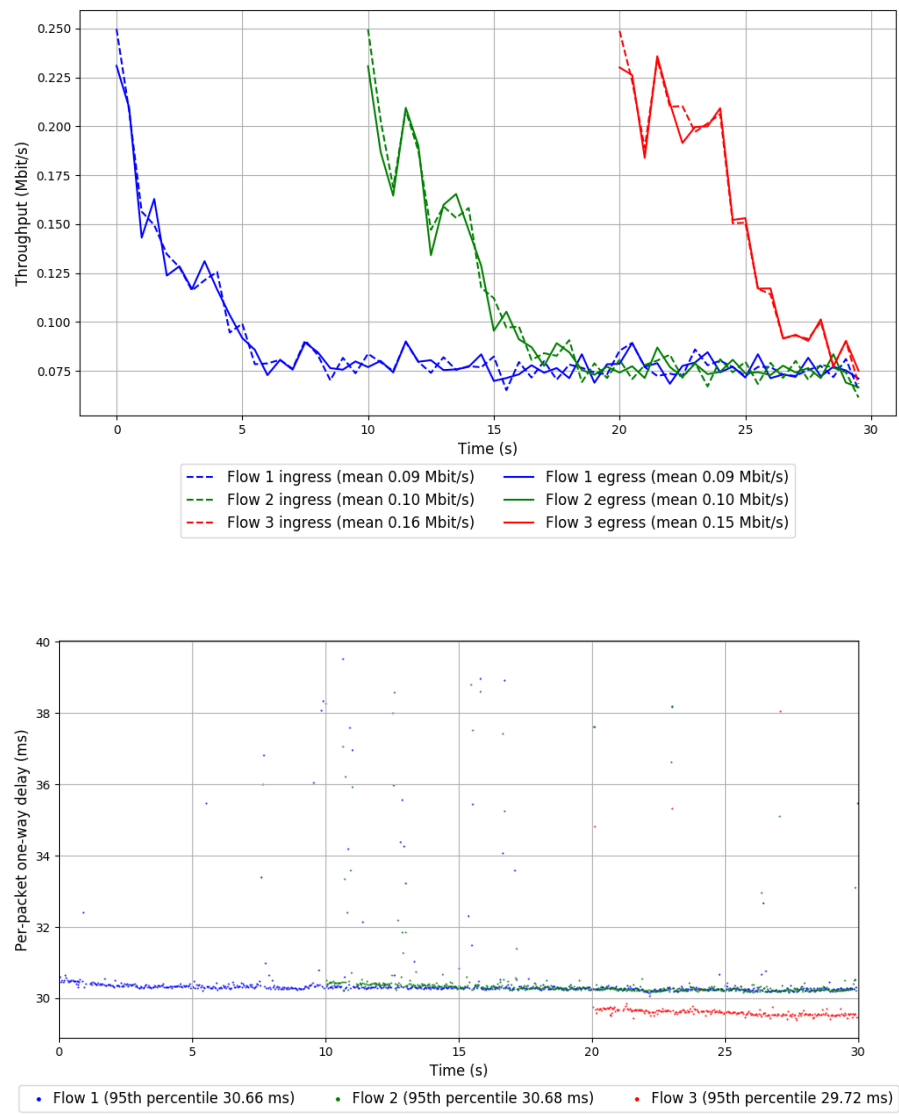
-- Flow 3:

Average throughput: 0.15 Mbit/s

95th percentile per-packet one-way delay: 29.723 ms

Loss rate: 0.57%

Run 3: Report of SReAM — Data Link

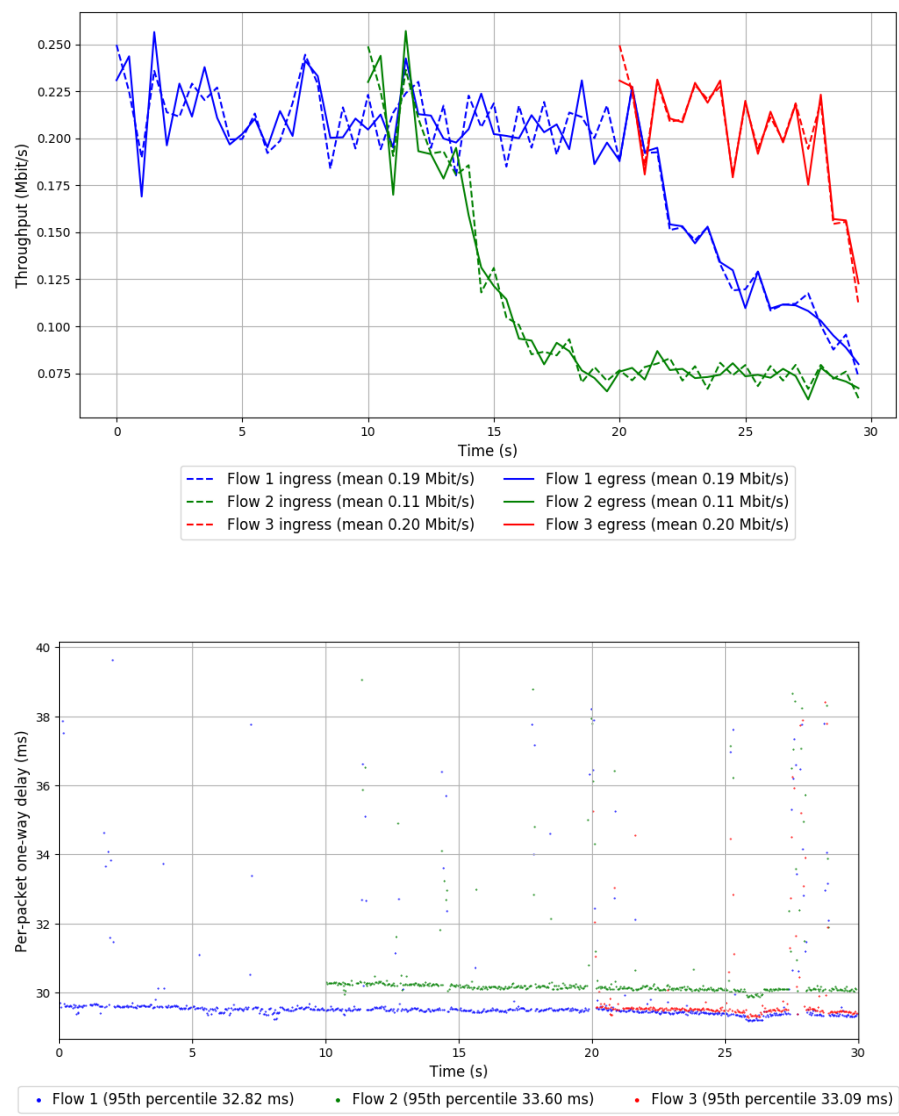


Run 4: Statistics of SCReAM

Start at: 2018-04-17 18:42:34  
End at: 2018-04-17 18:43:04  
Local clock offset: 1.434 ms  
Remote clock offset: 13.349 ms

# Below is generated by plot.py at 2018-04-17 22:13:58  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.33 Mbit/s  
95th percentile per-packet one-way delay: 33.176 ms  
Loss rate: 0.47%  
-- Flow 1:  
Average throughput: 0.19 Mbit/s  
95th percentile per-packet one-way delay: 32.819 ms  
Loss rate: 0.23%  
-- Flow 2:  
Average throughput: 0.11 Mbit/s  
95th percentile per-packet one-way delay: 33.598 ms  
Loss rate: 1.12%  
-- Flow 3:  
Average throughput: 0.20 Mbit/s  
95th percentile per-packet one-way delay: 33.092 ms  
Loss rate: 0.45%

Run 4: Report of SReAM — Data Link

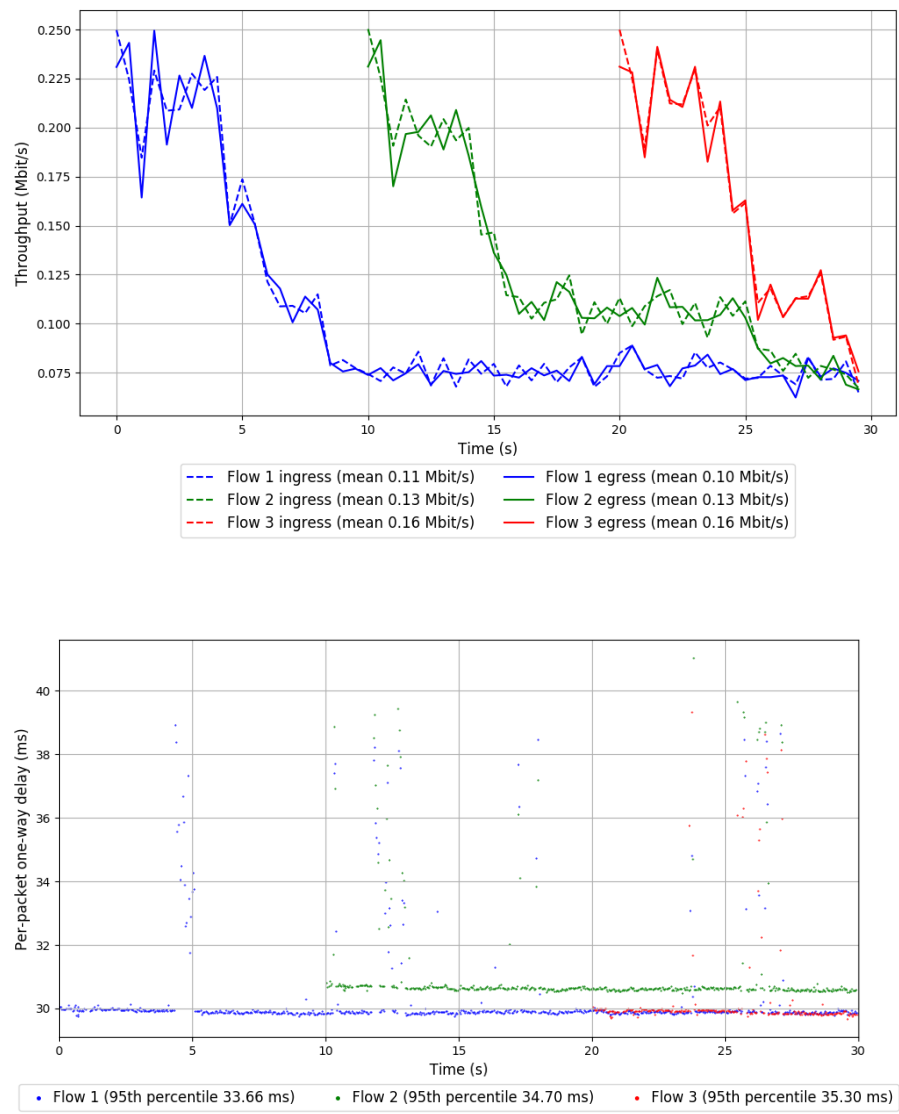


Run 5: Statistics of SCReAM

Start at: 2018-04-17 19:06:41  
End at: 2018-04-17 19:07:11  
Local clock offset: -0.782 ms  
Remote clock offset: 16.094 ms

# Below is generated by plot.py at 2018-04-17 22:13:58  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.24 Mbit/s  
95th percentile per-packet one-way delay: 34.253 ms  
Loss rate: 0.76%  
-- Flow 1:  
Average throughput: 0.10 Mbit/s  
95th percentile per-packet one-way delay: 33.664 ms  
Loss rate: 0.75%  
-- Flow 2:  
Average throughput: 0.13 Mbit/s  
95th percentile per-packet one-way delay: 34.699 ms  
Loss rate: 0.69%  
-- Flow 3:  
Average throughput: 0.16 Mbit/s  
95th percentile per-packet one-way delay: 35.304 ms  
Loss rate: 0.88%

Run 5: Report of SReAM — Data Link

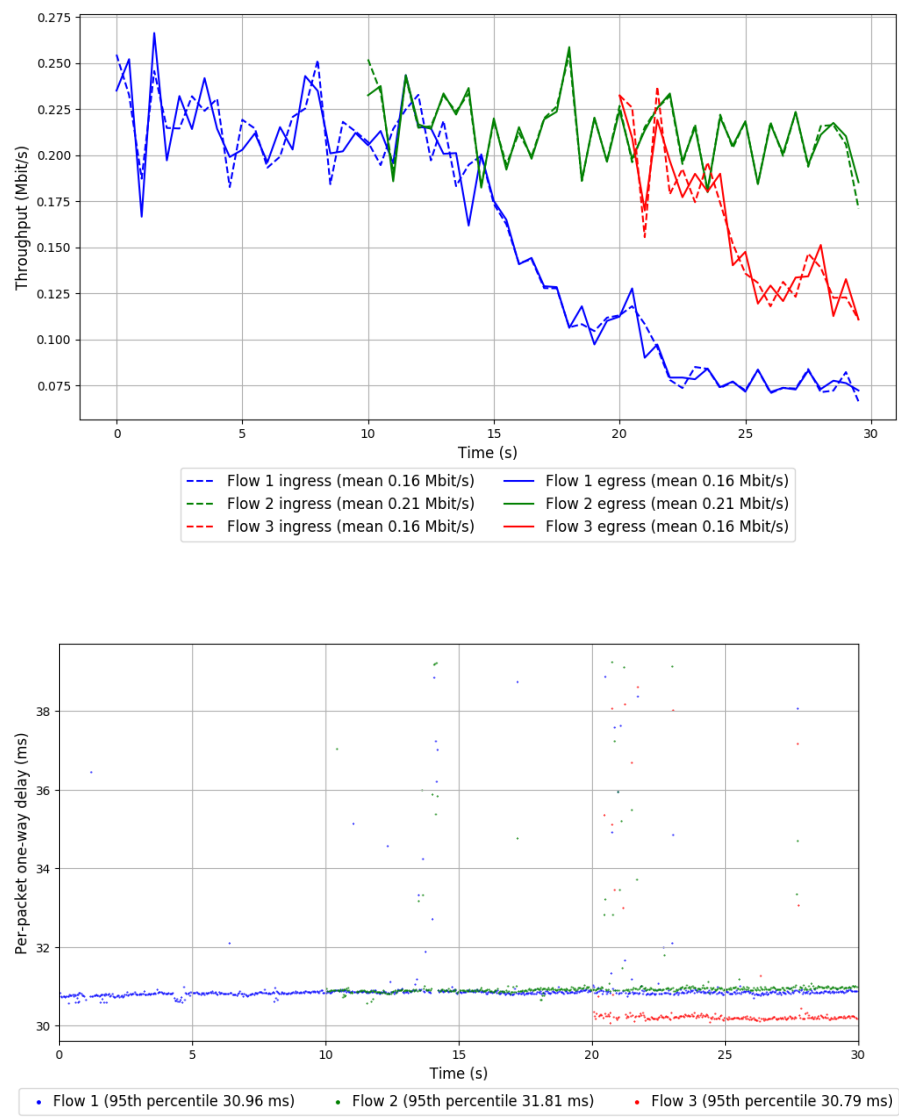


Run 6: Statistics of SCReAM

Start at: 2018-04-17 19:31:01  
End at: 2018-04-17 19:31:31  
Local clock offset: 0.851 ms  
Remote clock offset: -5.691 ms

# Below is generated by plot.py at 2018-04-17 22:13:58  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.35 Mbit/s  
95th percentile per-packet one-way delay: 31.033 ms  
Loss rate: 0.13%  
-- Flow 1:  
Average throughput: 0.16 Mbit/s  
95th percentile per-packet one-way delay: 30.965 ms  
Loss rate: 0.28%  
-- Flow 2:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 31.806 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.16 Mbit/s  
95th percentile per-packet one-way delay: 30.794 ms  
Loss rate: 0.06%

Run 6: Report of SReAM — Data Link

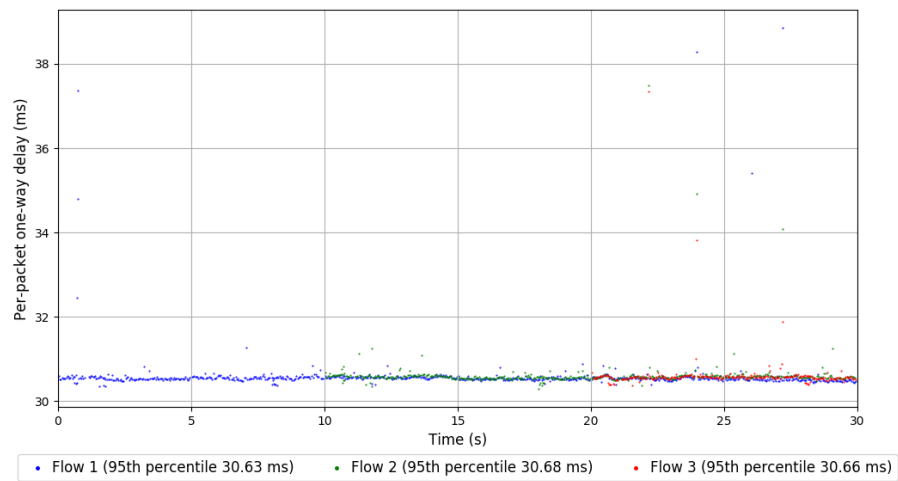
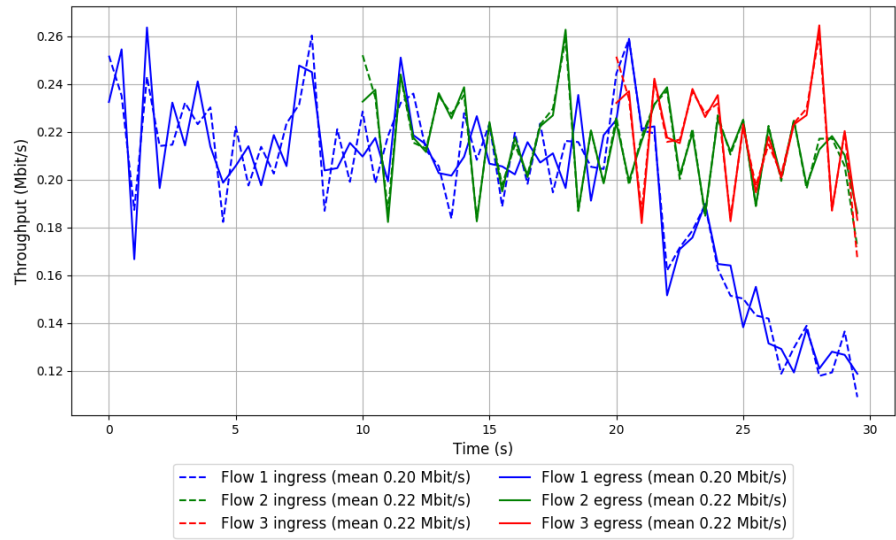


Run 7: Statistics of SReAM

Start at: 2018-04-17 19:59:26  
End at: 2018-04-17 19:59:56  
Local clock offset: -0.098 ms  
Remote clock offset: -9.236 ms

# Below is generated by plot.py at 2018-04-17 22:13:58  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.41 Mbit/s  
95th percentile per-packet one-way delay: 30.645 ms  
Loss rate: 0.06%  
-- Flow 1:  
Average throughput: 0.20 Mbit/s  
95th percentile per-packet one-way delay: 30.626 ms  
Loss rate: 0.12%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 30.676 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 30.656 ms  
Loss rate: 0.00%

## Run 7: Report of SReAM — Data Link

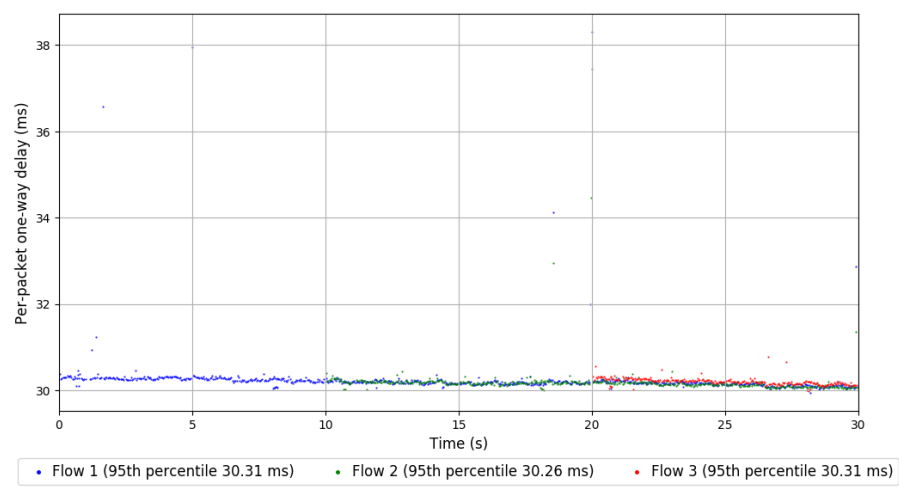
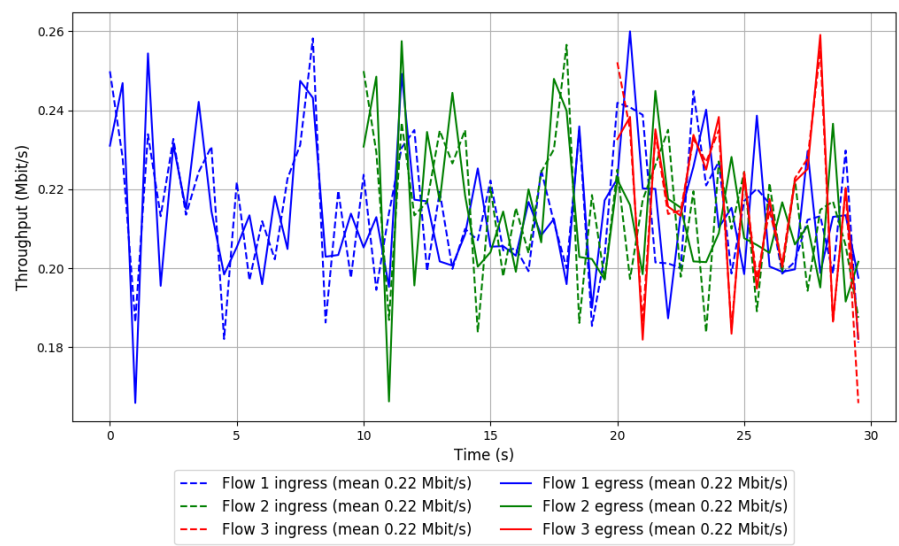


Run 8: Statistics of SReAM

Start at: 2018-04-17 20:28:20  
End at: 2018-04-17 20:28:50  
Local clock offset: -0.285 ms  
Remote clock offset: -4.015 ms

# Below is generated by plot.py at 2018-04-17 22:13:58  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 30.303 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 30.312 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 30.259 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 30.307 ms  
Loss rate: 0.00%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SReAM

Start at: 2018-04-17 20:57:20

End at: 2018-04-17 20:57:50

Local clock offset: 0.025 ms

Remote clock offset: 1.145 ms

# Below is generated by plot.py at 2018-04-17 22:13:58

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 30.456 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 29.804 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 30.508 ms

Loss rate: 0.00%

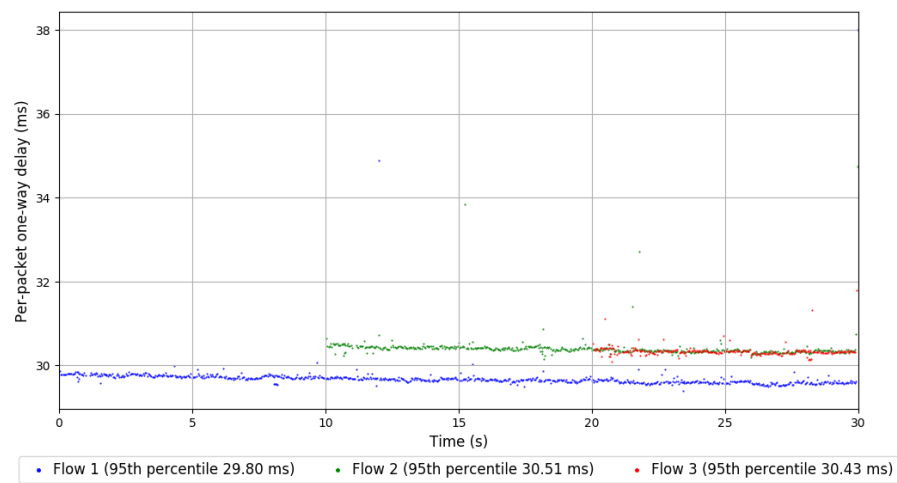
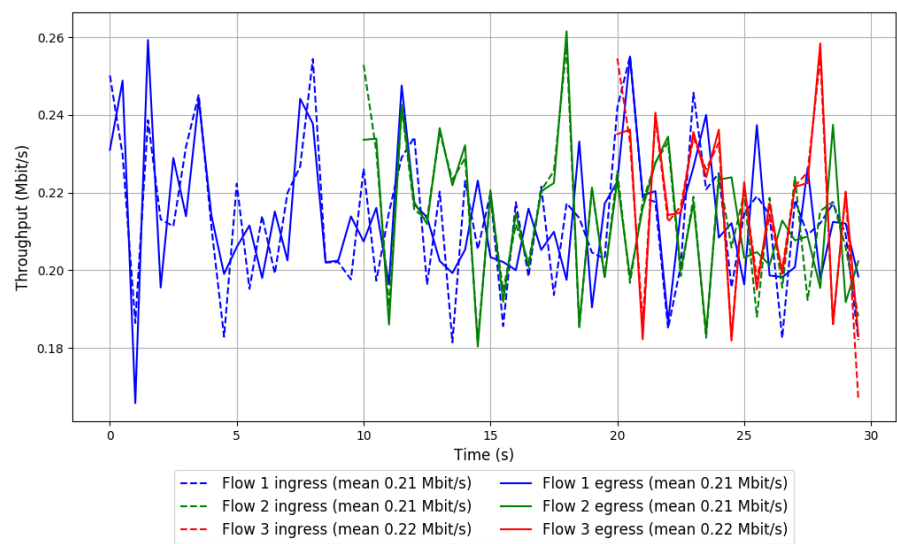
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 30.426 ms

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-04-17 21:24:33

End at: 2018-04-17 21:25:03

Local clock offset: 0.004 ms

Remote clock offset: 6.626 ms

# Below is generated by plot.py at 2018-04-17 22:13:58

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.34 Mbit/s

95th percentile per-packet one-way delay: 30.597 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 0.13 Mbit/s

95th percentile per-packet one-way delay: 30.617 ms

Loss rate: 0.21%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 29.923 ms

Loss rate: 0.00%

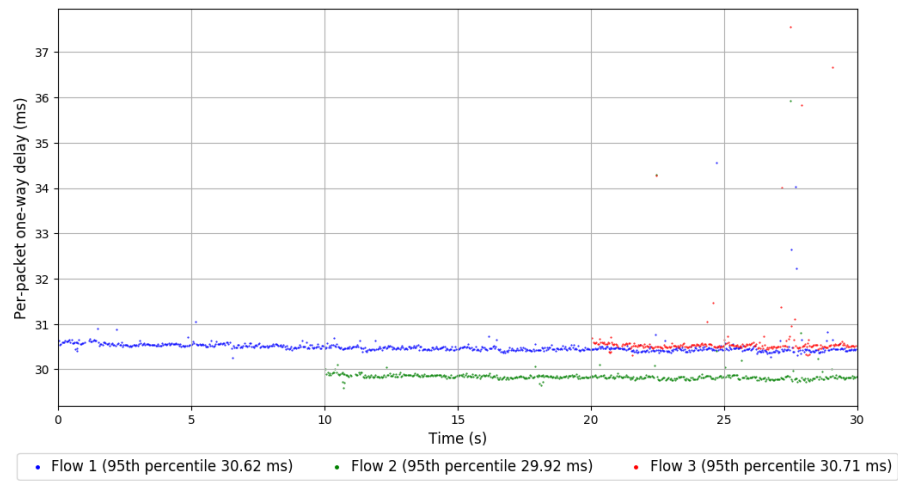
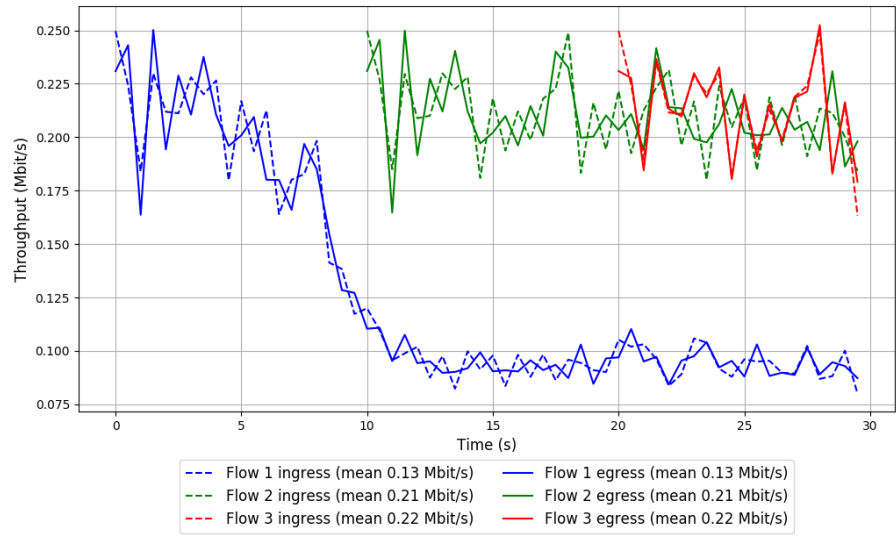
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 30.706 ms

Loss rate: 0.00%

## Run 10: Report of SReAM — Data Link

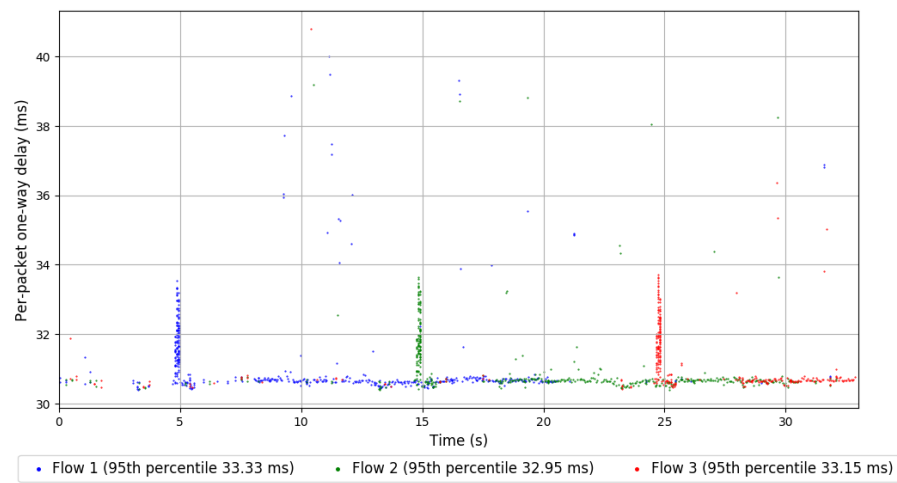
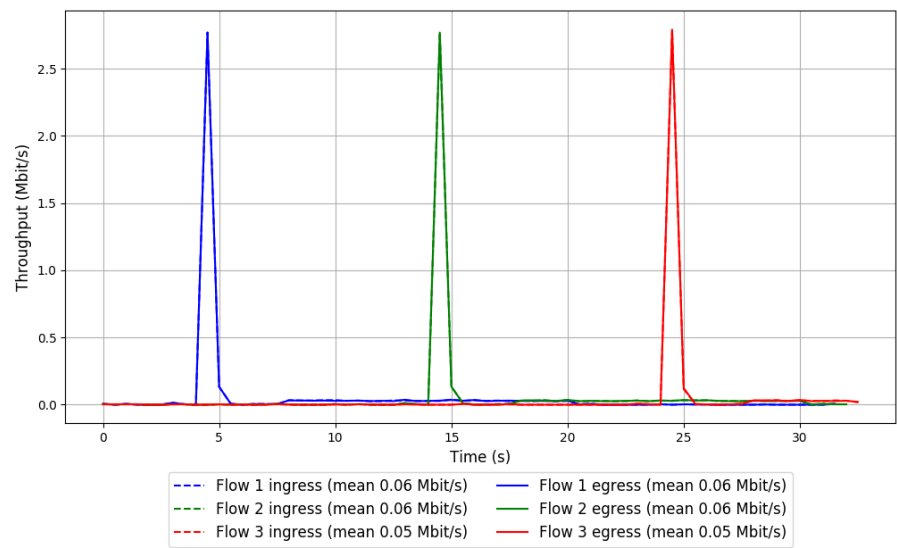


Run 1: Statistics of WebRTC media

Start at: 2018-04-17 17:26:57  
End at: 2018-04-17 17:27:27  
Local clock offset: 1.321 ms  
Remote clock offset: -2.465 ms

# Below is generated by plot.py at 2018-04-17 22:13:58  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.16 Mbit/s  
95th percentile per-packet one-way delay: 33.155 ms  
Loss rate: 0.13%  
-- Flow 1:  
Average throughput: 0.06 Mbit/s  
95th percentile per-packet one-way delay: 33.326 ms  
Loss rate: 0.25%  
-- Flow 2:  
Average throughput: 0.06 Mbit/s  
95th percentile per-packet one-way delay: 32.947 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 33.149 ms  
Loss rate: 0.13%

Run 1: Report of WebRTC media — Data Link

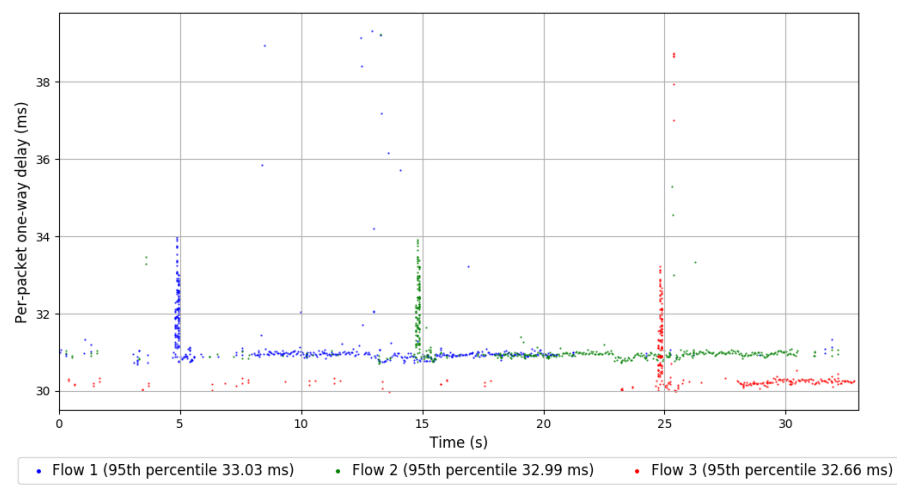
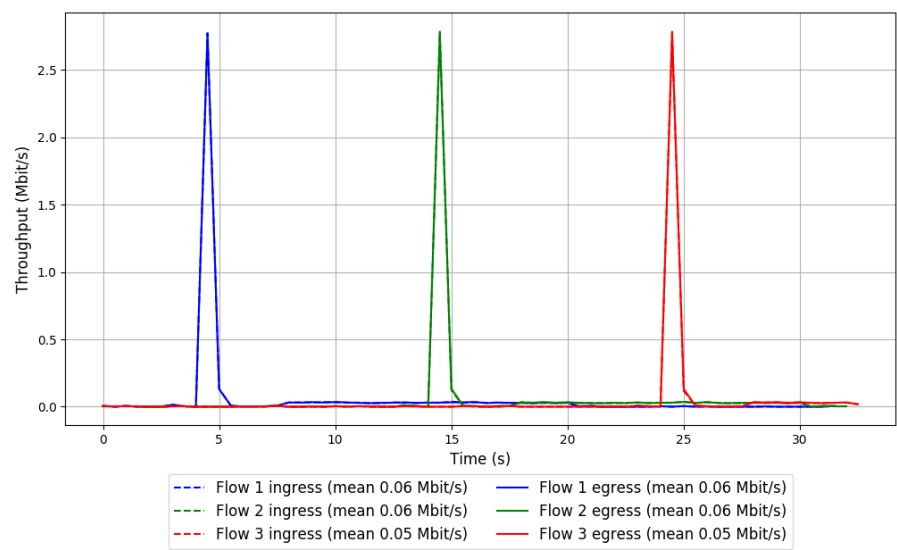


Run 2: Statistics of WebRTC media

Start at: 2018-04-17 17:51:40  
End at: 2018-04-17 17:52:10  
Local clock offset: 2.449 ms  
Remote clock offset: -2.067 ms

# Below is generated by plot.py at 2018-04-17 22:13:58  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.16 Mbit/s  
95th percentile per-packet one-way delay: 32.980 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 0.06 Mbit/s  
95th percentile per-packet one-way delay: 33.034 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.06 Mbit/s  
95th percentile per-packet one-way delay: 32.994 ms  
Loss rate: 0.04%  
-- Flow 3:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 32.665 ms  
Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-04-17 18:15:30

End at: 2018-04-17 18:16:00

Local clock offset: 5.611 ms

Remote clock offset: 7.985 ms

# Below is generated by plot.py at 2018-04-17 22:13:58

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.16 Mbit/s

95th percentile per-packet one-way delay: 32.277 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 32.368 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 32.161 ms

Loss rate: 0.00%

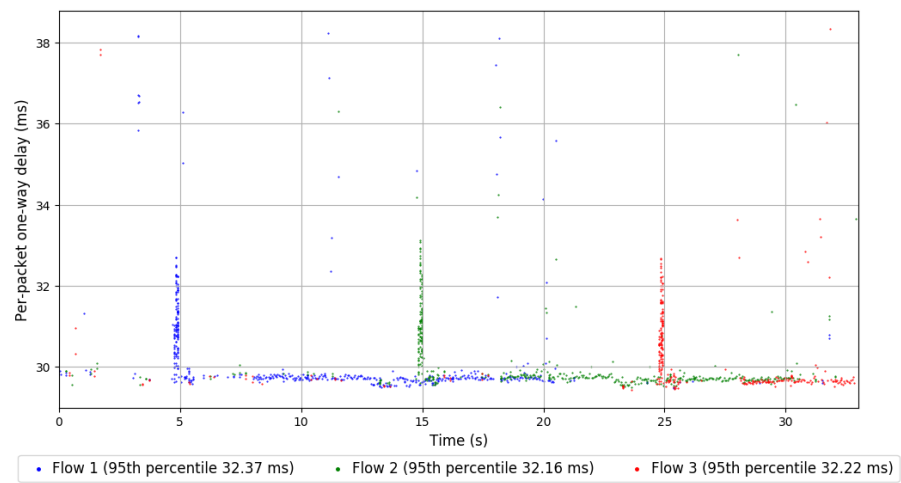
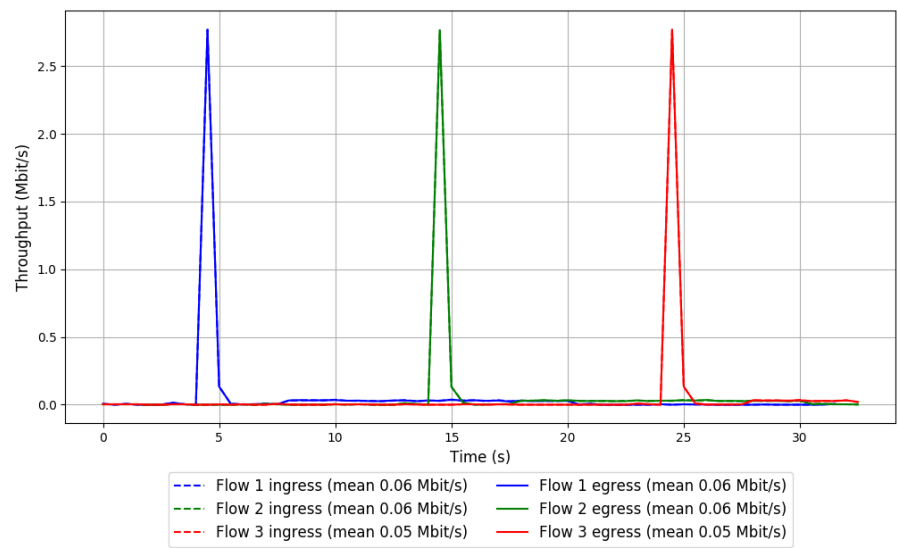
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 32.224 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link

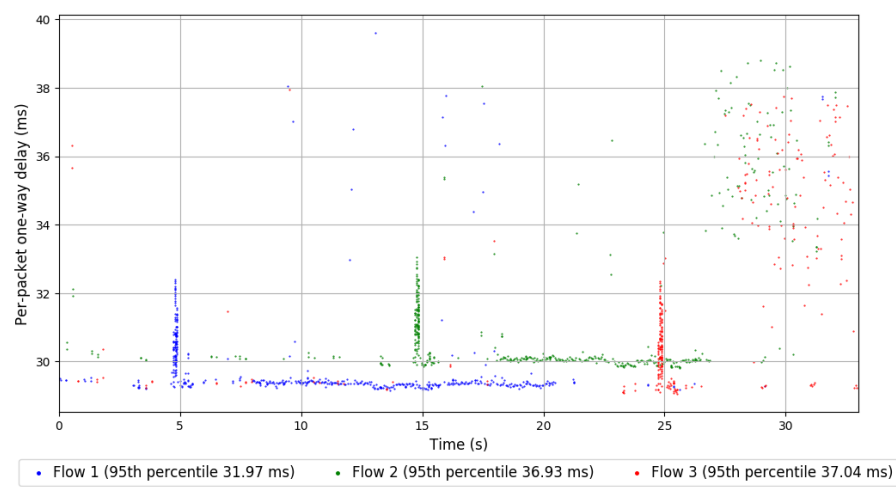
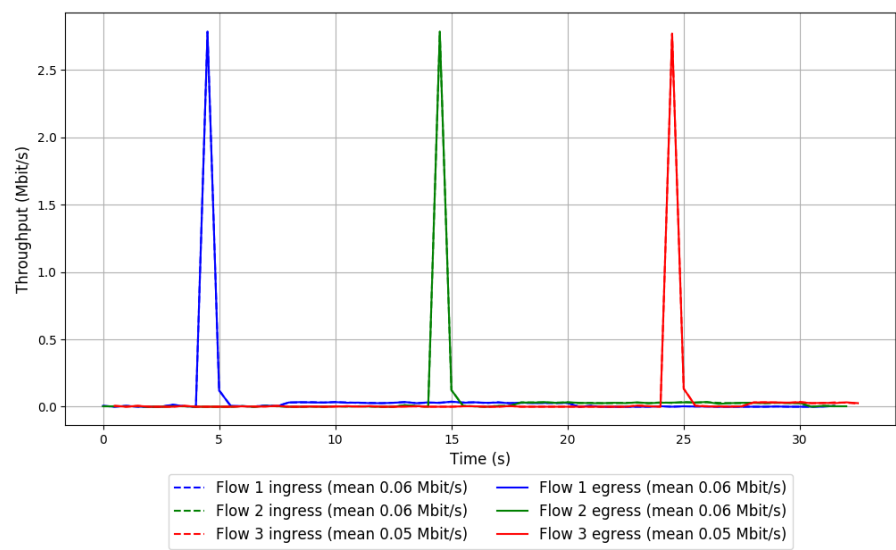


Run 4: Statistics of WebRTC media

Start at: 2018-04-17 18:39:48  
End at: 2018-04-17 18:40:18  
Local clock offset: 2.192 ms  
Remote clock offset: 12.982 ms

# Below is generated by plot.py at 2018-04-17 22:13:58  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.16 Mbit/s  
95th percentile per-packet one-way delay: 36.525 ms  
Loss rate: 0.10%  
-- Flow 1:  
Average throughput: 0.06 Mbit/s  
95th percentile per-packet one-way delay: 31.969 ms  
Loss rate: 0.07%  
-- Flow 2:  
Average throughput: 0.06 Mbit/s  
95th percentile per-packet one-way delay: 36.926 ms  
Loss rate: 0.21%  
-- Flow 3:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 37.043 ms  
Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link

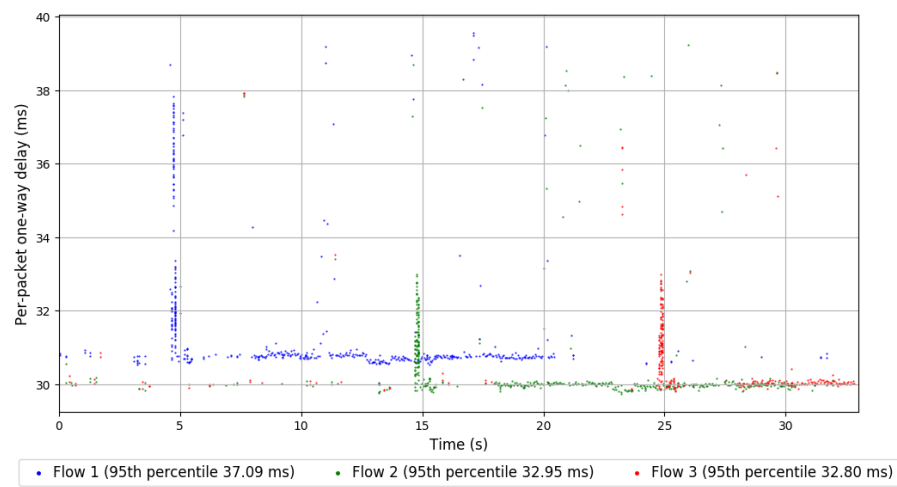
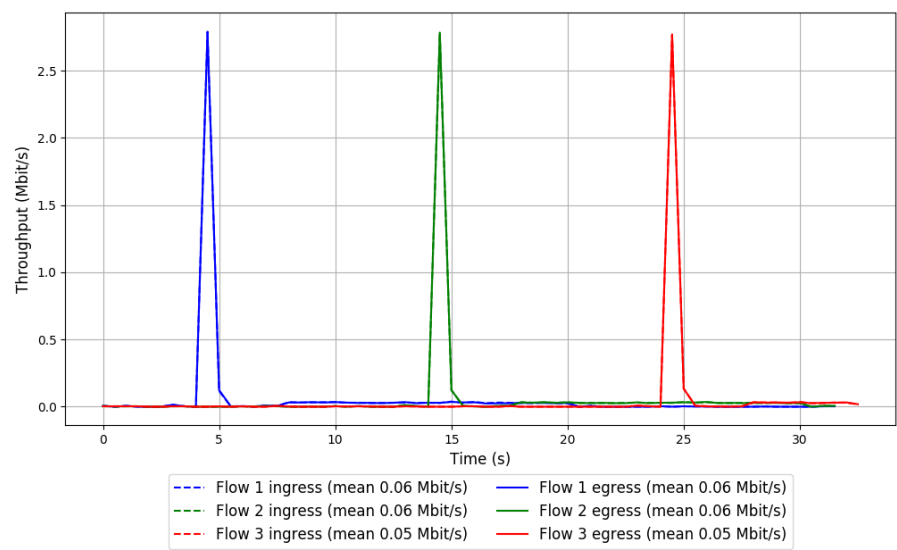


Run 5: Statistics of WebRTC media

Start at: 2018-04-17 19:03:58  
End at: 2018-04-17 19:04:28  
Local clock offset: -0.954 ms  
Remote clock offset: 16.243 ms

# Below is generated by plot.py at 2018-04-17 22:13:58  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.16 Mbit/s  
95th percentile per-packet one-way delay: 36.144 ms  
Loss rate: 0.13%  
-- Flow 1:  
Average throughput: 0.06 Mbit/s  
95th percentile per-packet one-way delay: 37.085 ms  
Loss rate: 0.36%  
-- Flow 2:  
Average throughput: 0.06 Mbit/s  
95th percentile per-packet one-way delay: 32.951 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 32.797 ms  
Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

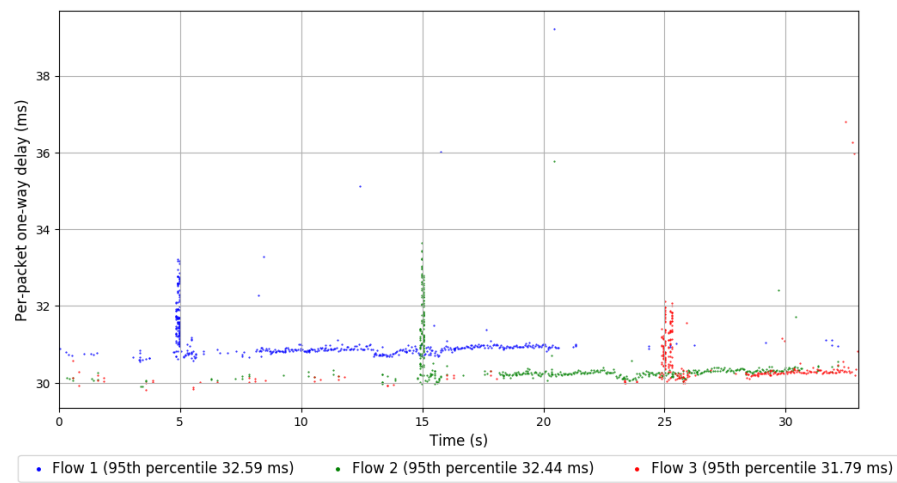
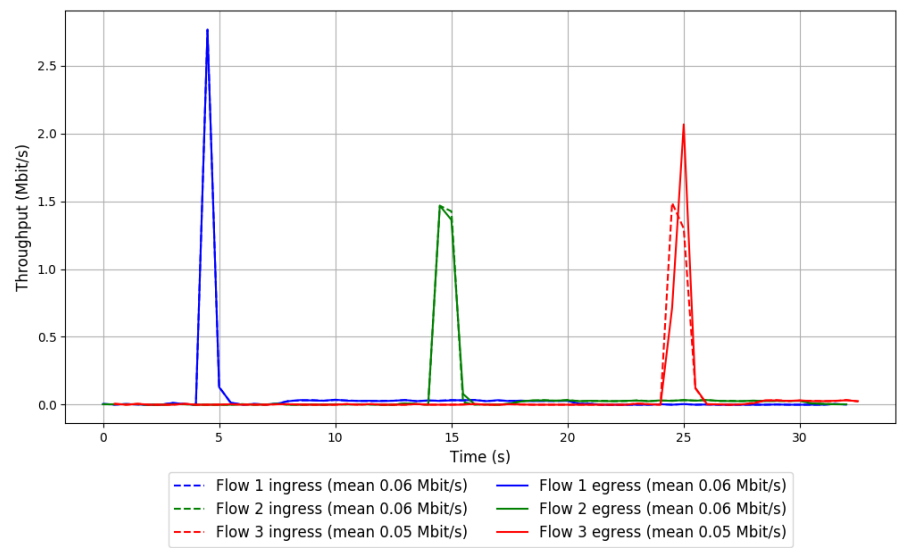


Run 6: Statistics of WebRTC media

Start at: 2018-04-17 19:28:15  
End at: 2018-04-17 19:28:45  
Local clock offset: 0.694 ms  
Remote clock offset: -4.335 ms

# Below is generated by plot.py at 2018-04-17 22:13:58  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.16 Mbit/s  
95th percentile per-packet one-way delay: 32.332 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.06 Mbit/s  
95th percentile per-packet one-way delay: 32.588 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.06 Mbit/s  
95th percentile per-packet one-way delay: 32.442 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 31.785 ms  
Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link

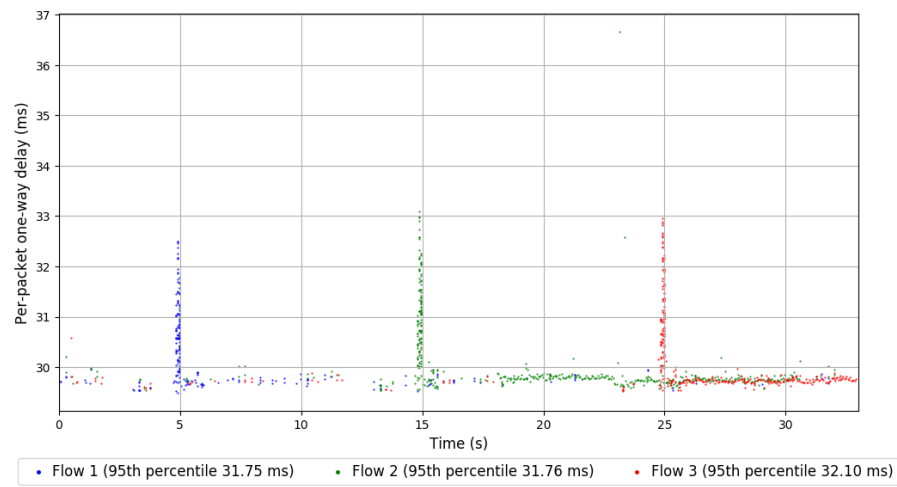
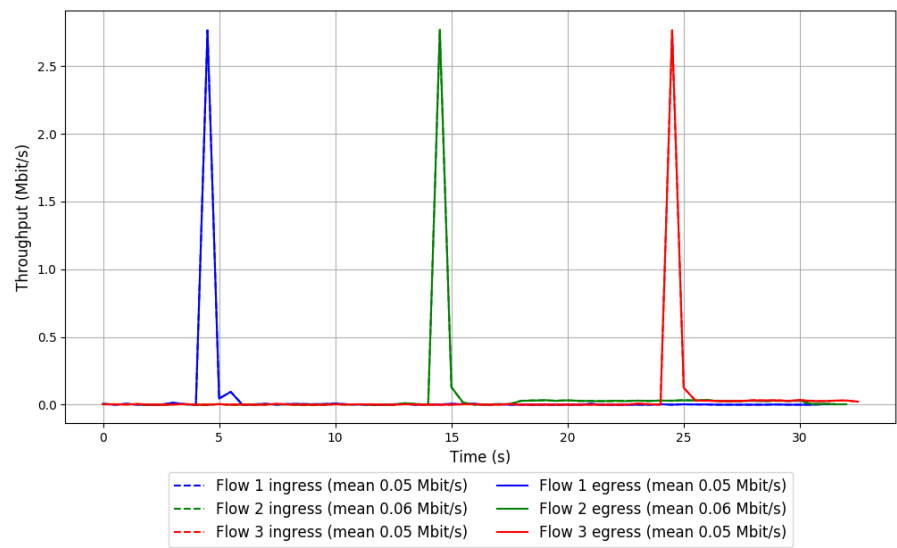


Run 7: Statistics of WebRTC media

Start at: 2018-04-17 19:56:39  
End at: 2018-04-17 19:57:09  
Local clock offset: -0.1 ms  
Remote clock offset: -9.064 ms

# Below is generated by plot.py at 2018-04-17 22:13:58  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.15 Mbit/s  
95th percentile per-packet one-way delay: 31.930 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 31.750 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.06 Mbit/s  
95th percentile per-packet one-way delay: 31.760 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 32.097 ms  
Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link

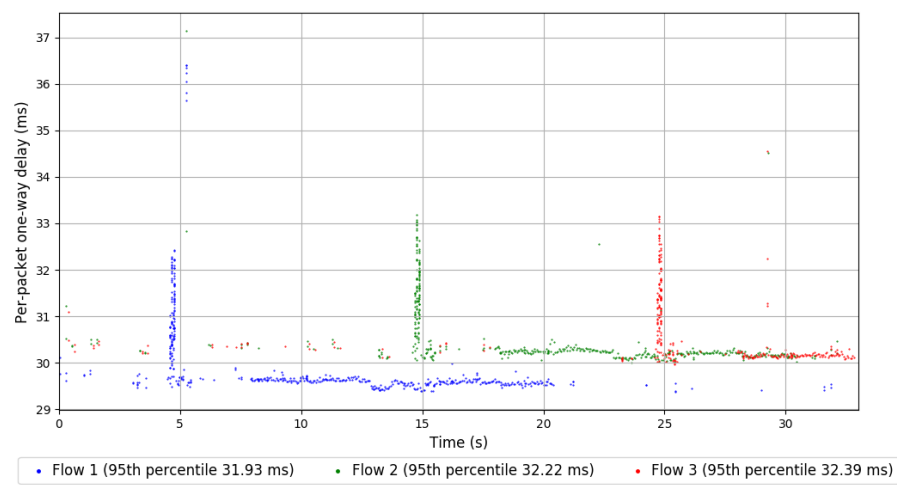
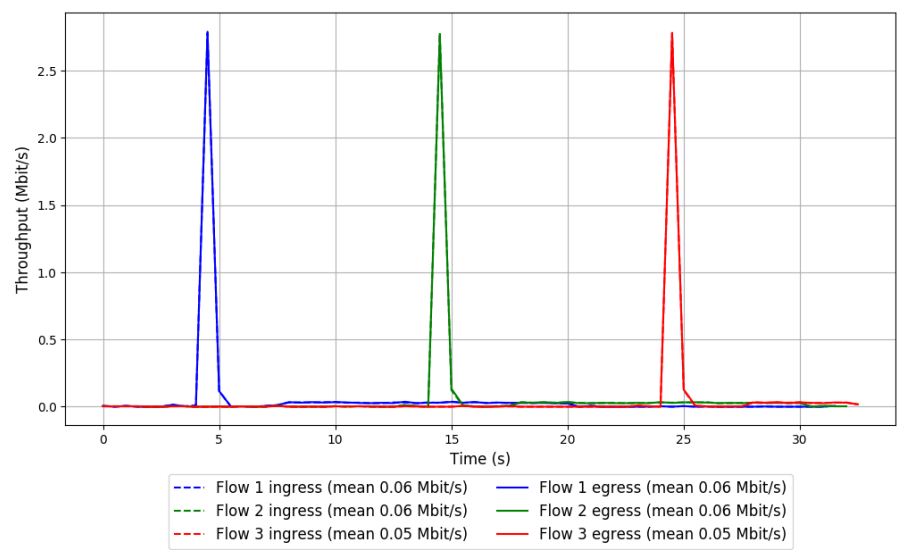


Run 8: Statistics of WebRTC media

Start at: 2018-04-17 20:25:36  
End at: 2018-04-17 20:26:06  
Local clock offset: -0.224 ms  
Remote clock offset: -5.798 ms

# Below is generated by plot.py at 2018-04-17 22:13:58  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.16 Mbit/s  
95th percentile per-packet one-way delay: 32.207 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.06 Mbit/s  
95th percentile per-packet one-way delay: 31.927 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.06 Mbit/s  
95th percentile per-packet one-way delay: 32.224 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 32.393 ms  
Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link

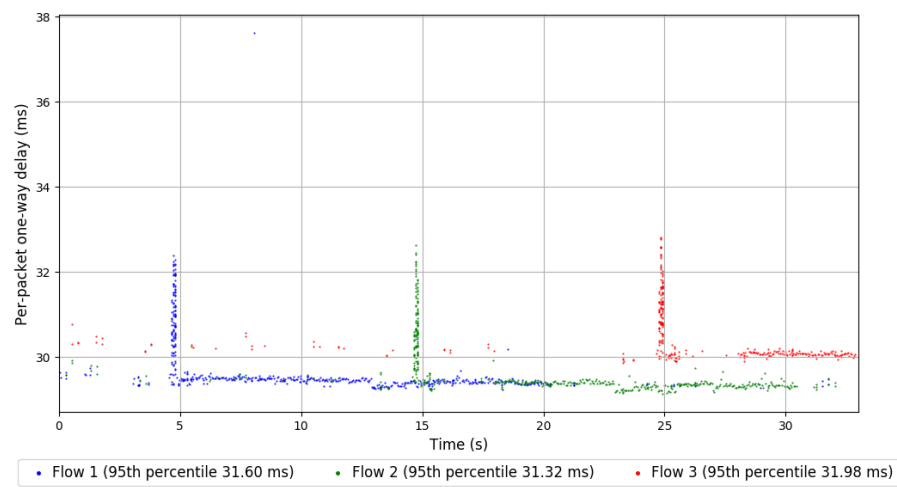
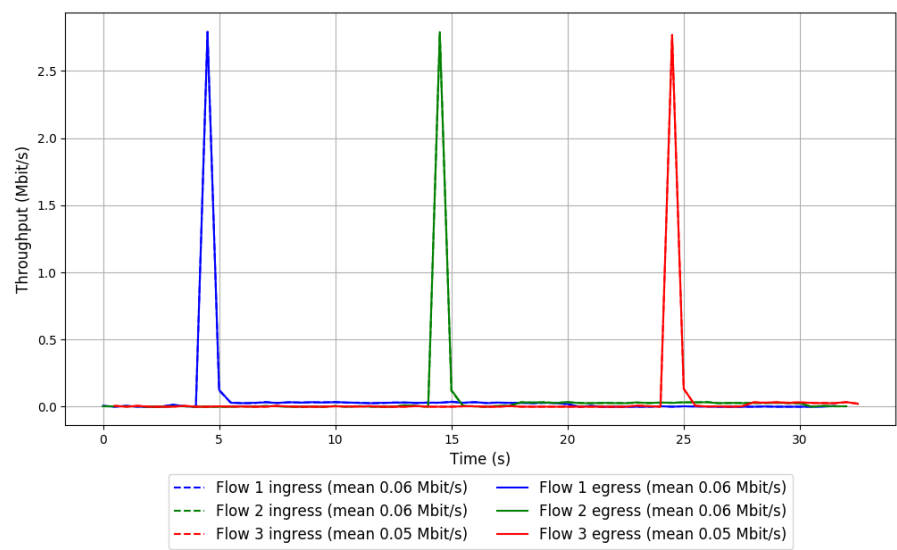


Run 9: Statistics of WebRTC media

Start at: 2018-04-17 20:54:24  
End at: 2018-04-17 20:54:54  
Local clock offset: -0.04 ms  
Remote clock offset: -0.439 ms

# Below is generated by plot.py at 2018-04-17 22:13:58  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.17 Mbit/s  
95th percentile per-packet one-way delay: 31.662 ms  
Loss rate: 0.02%  
-- Flow 1:  
Average throughput: 0.06 Mbit/s  
95th percentile per-packet one-way delay: 31.597 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.06 Mbit/s  
95th percentile per-packet one-way delay: 31.317 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 31.982 ms  
Loss rate: 0.08%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-04-17 21:21:50

End at: 2018-04-17 21:22:20

Local clock offset: 0.216 ms

Remote clock offset: 6.34 ms

# Below is generated by plot.py at 2018-04-17 22:13:58

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.16 Mbit/s

95th percentile per-packet one-way delay: 31.994 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 31.319 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 32.038 ms

Loss rate: 0.00%

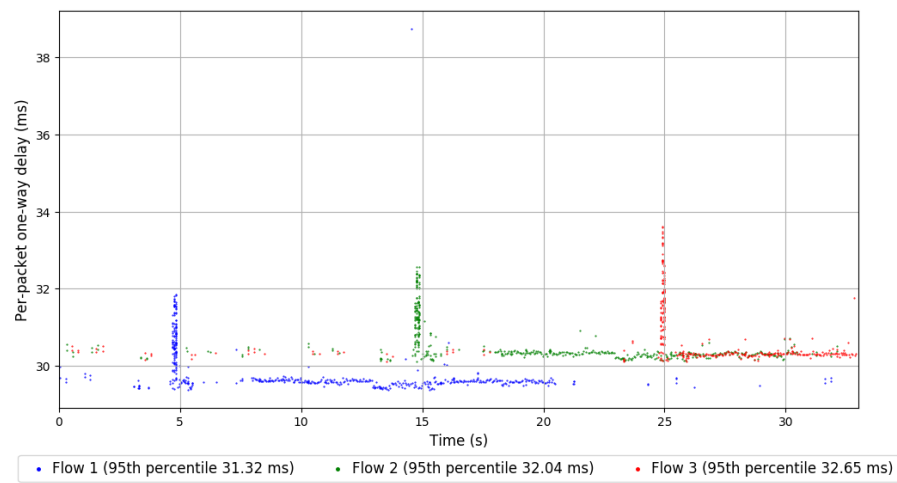
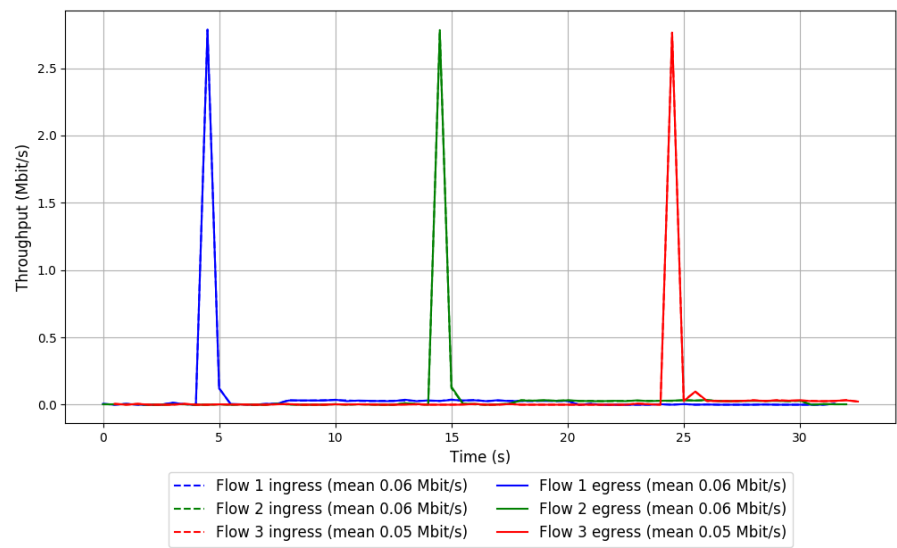
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 32.651 ms

Loss rate: 0.04%

Run 10: Report of WebRTC media — Data Link

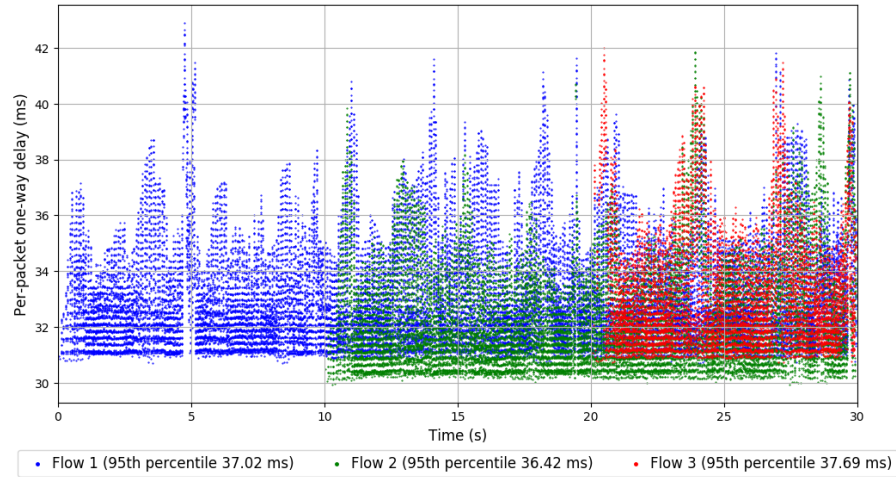
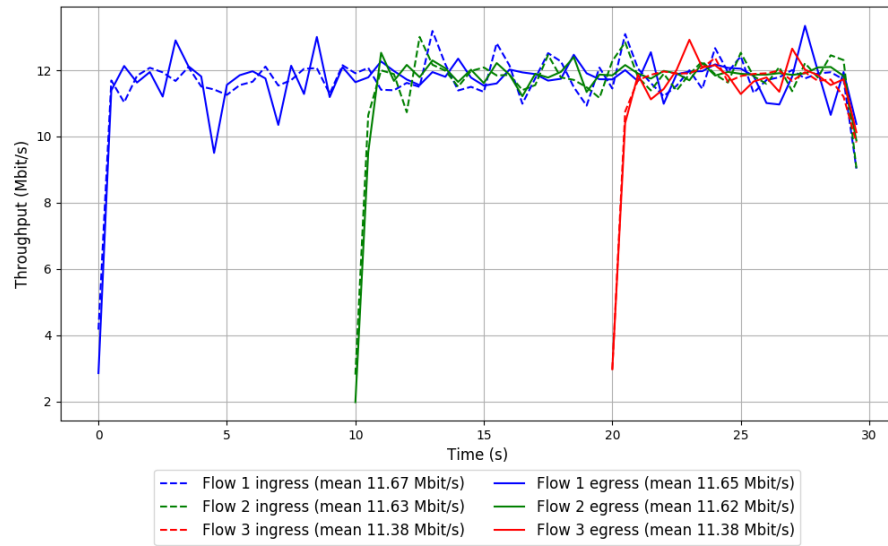


Run 1: Statistics of Sprout

Start at: 2018-04-17 17:47:31  
End at: 2018-04-17 17:48:01  
Local clock offset: 2.364 ms  
Remote clock offset: -1.944 ms

# Below is generated by plot.py at 2018-04-17 22:13:58  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 23.14 Mbit/s  
95th percentile per-packet one-way delay: 36.969 ms  
Loss rate: 0.08%  
-- Flow 1:  
Average throughput: 11.65 Mbit/s  
95th percentile per-packet one-way delay: 37.017 ms  
Loss rate: 0.13%  
-- Flow 2:  
Average throughput: 11.62 Mbit/s  
95th percentile per-packet one-way delay: 36.420 ms  
Loss rate: 0.05%  
-- Flow 3:  
Average throughput: 11.38 Mbit/s  
95th percentile per-packet one-way delay: 37.686 ms  
Loss rate: 0.00%

## Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-04-17 18:11:29

End at: 2018-04-17 18:11:59

Local clock offset: 5.313 ms

Remote clock offset: 6.479 ms

# Below is generated by plot.py at 2018-04-17 22:13:58

# Datalink statistics

-- Total of 3 flows:

Average throughput: 22.95 Mbit/s

95th percentile per-packet one-way delay: 37.692 ms

Loss rate: 0.65%

-- Flow 1:

Average throughput: 11.58 Mbit/s

95th percentile per-packet one-way delay: 37.667 ms

Loss rate: 0.69%

-- Flow 2:

Average throughput: 11.46 Mbit/s

95th percentile per-packet one-way delay: 37.897 ms

Loss rate: 0.62%

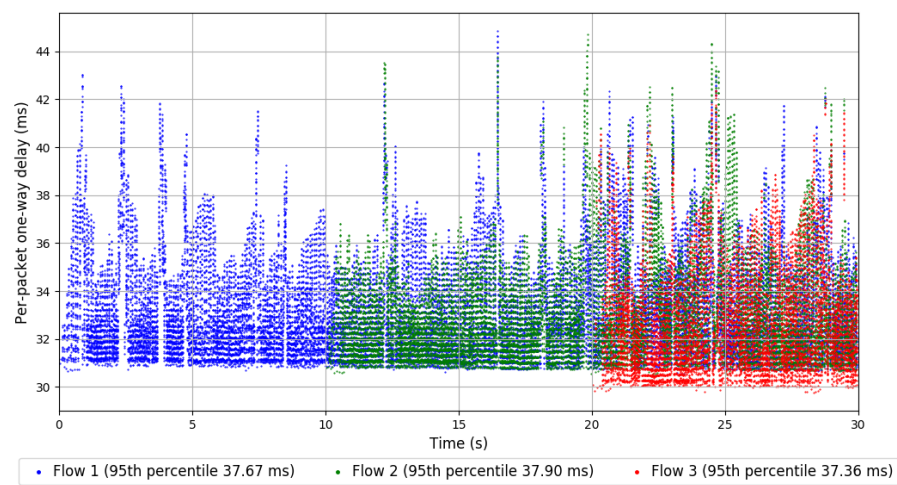
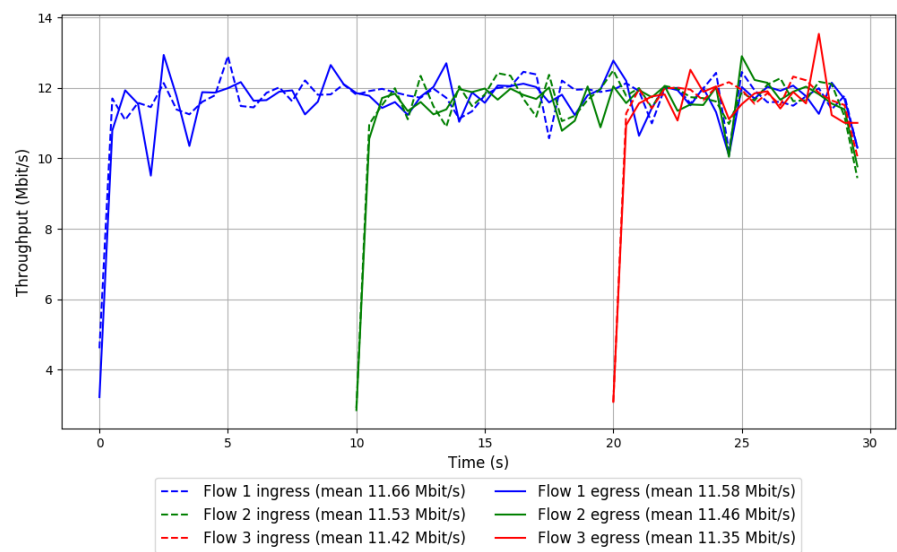
-- Flow 3:

Average throughput: 11.35 Mbit/s

95th percentile per-packet one-way delay: 37.364 ms

Loss rate: 0.56%

Run 2: Report of Sprout — Data Link

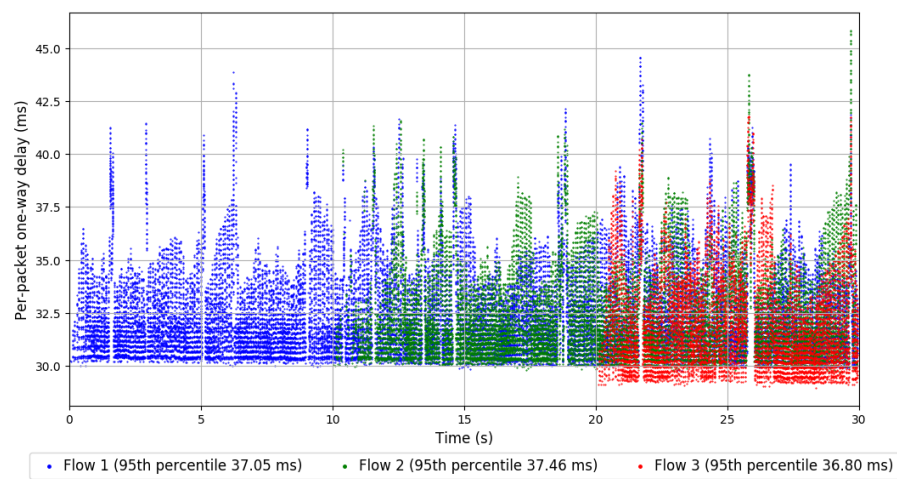
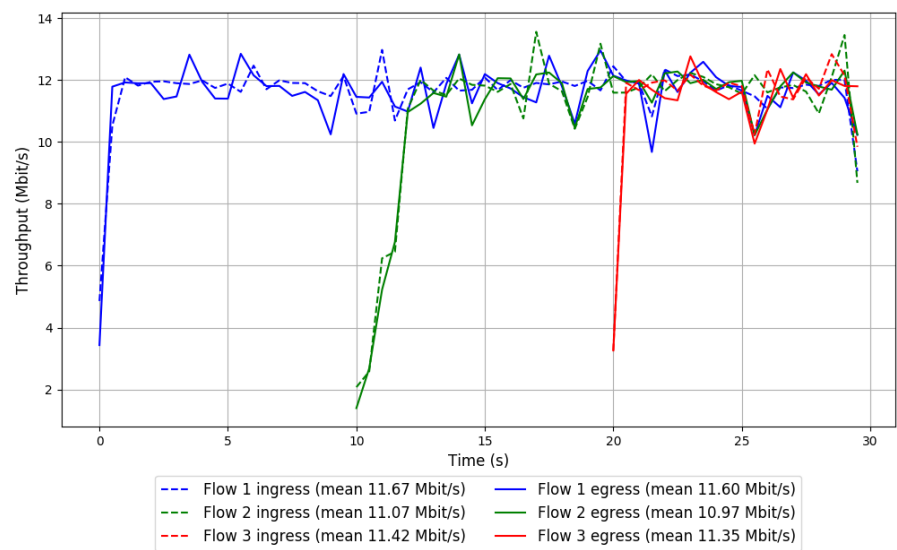


### Run 3: Statistics of Sprout

Start at: 2018-04-17 18:35:41  
End at: 2018-04-17 18:36:11  
Local clock offset: 3.843 ms  
Remote clock offset: 12.524 ms

```
# Below is generated by plot.py at 2018-04-17 22:13:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 22.64 Mbit/s
95th percentile per-packet one-way delay: 37.140 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 11.60 Mbit/s
95th percentile per-packet one-way delay: 37.045 ms
Loss rate: 0.58%
-- Flow 2:
Average throughput: 10.97 Mbit/s
95th percentile per-packet one-way delay: 37.462 ms
Loss rate: 0.85%
-- Flow 3:
Average throughput: 11.35 Mbit/s
95th percentile per-packet one-way delay: 36.803 ms
Loss rate: 0.55%
```

Run 3: Report of Sprout — Data Link

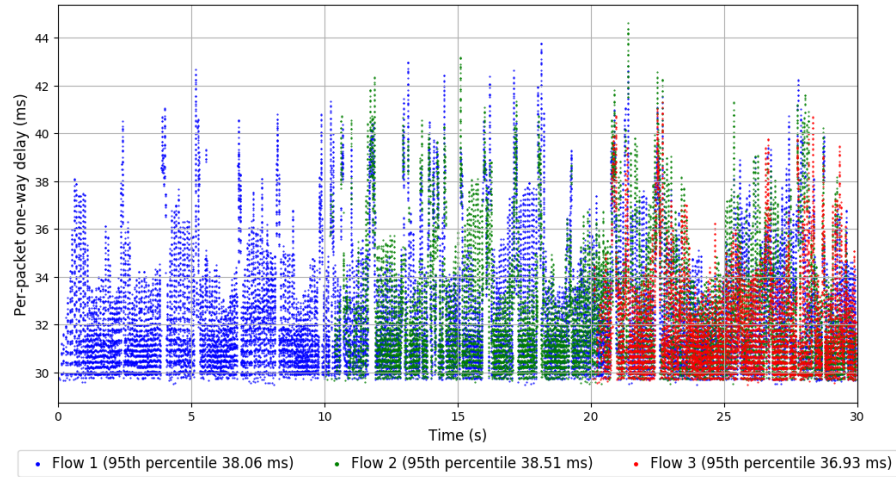
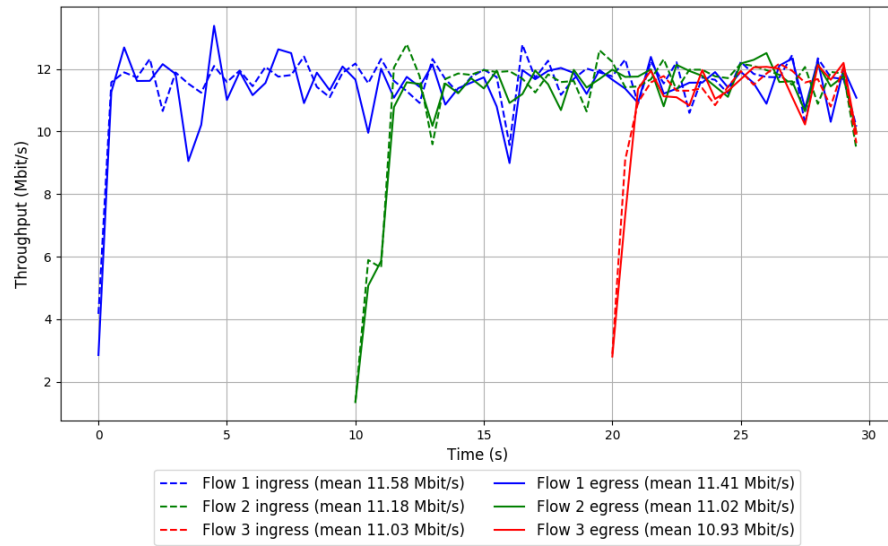


#### Run 4: Statistics of Sprout

Start at: 2018-04-17 18:59:53  
End at: 2018-04-17 19:00:23  
Local clock offset: -0.815 ms  
Remote clock offset: 15.45 ms

```
# Below is generated by plot.py at 2018-04-17 22:13:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 22.34 Mbit/s
95th percentile per-packet one-way delay: 38.107 ms
Loss rate: 1.38%
-- Flow 1:
Average throughput: 11.41 Mbit/s
95th percentile per-packet one-way delay: 38.060 ms
Loss rate: 1.48%
-- Flow 2:
Average throughput: 11.02 Mbit/s
95th percentile per-packet one-way delay: 38.511 ms
Loss rate: 1.50%
-- Flow 3:
Average throughput: 10.93 Mbit/s
95th percentile per-packet one-way delay: 36.933 ms
Loss rate: 0.85%
```

#### Run 4: Report of Sprout — Data Link

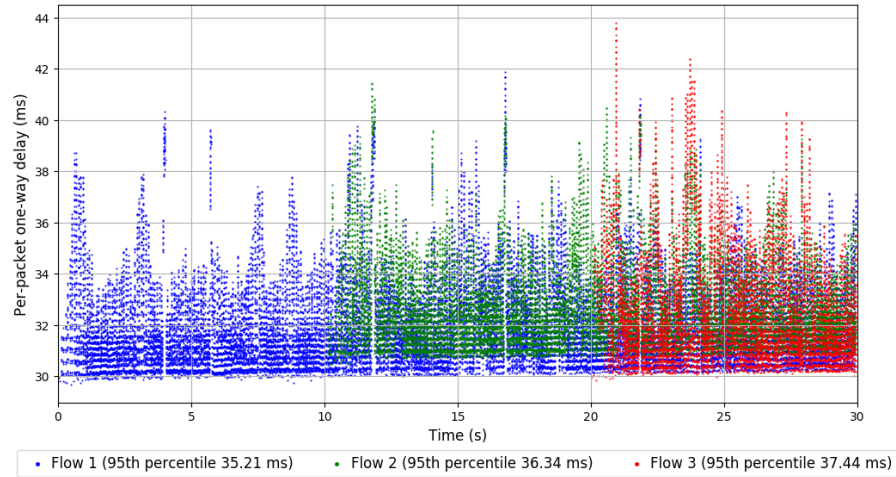
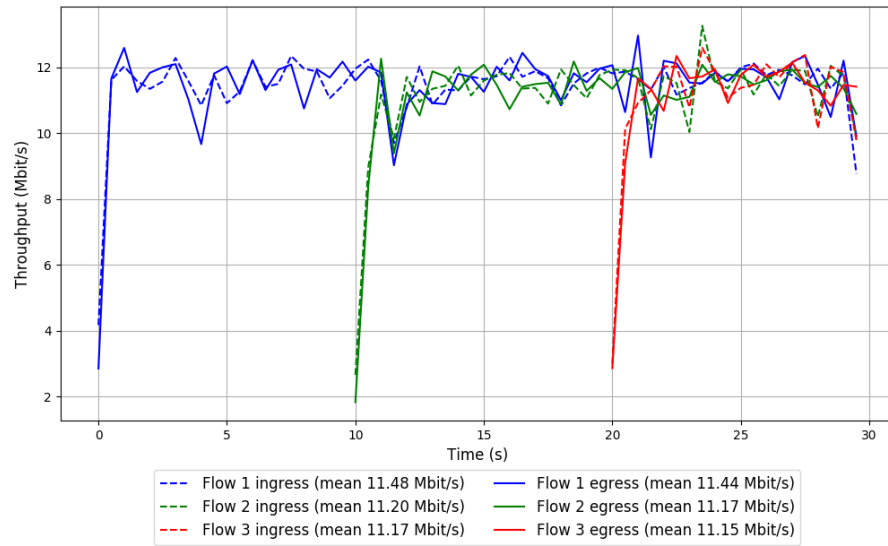


Run 5: Statistics of Sprout

Start at: 2018-04-17 19:23:54  
End at: 2018-04-17 19:24:24  
Local clock offset: 0.726 ms  
Remote clock offset: -1.828 ms

```
# Below is generated by plot.py at 2018-04-17 22:13:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 22.55 Mbit/s
95th percentile per-packet one-way delay: 36.064 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 11.44 Mbit/s
95th percentile per-packet one-way delay: 35.207 ms
Loss rate: 0.32%
-- Flow 2:
Average throughput: 11.17 Mbit/s
95th percentile per-packet one-way delay: 36.341 ms
Loss rate: 0.25%
-- Flow 3:
Average throughput: 11.15 Mbit/s
95th percentile per-packet one-way delay: 37.440 ms
Loss rate: 0.15%
```

## Run 5: Report of Sprout — Data Link

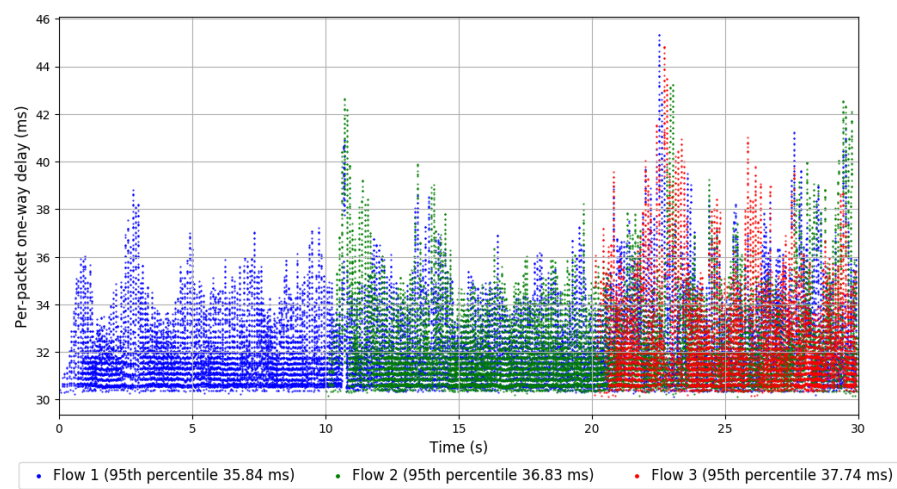
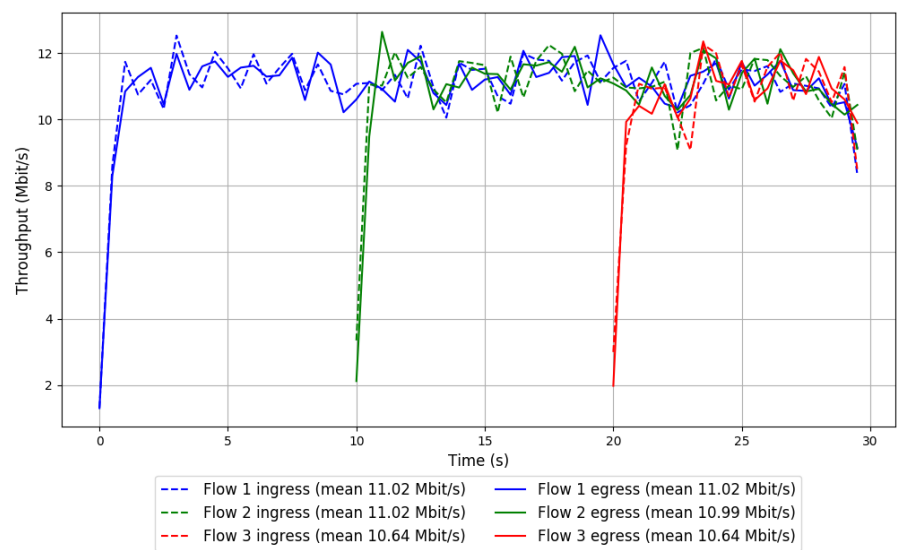


Run 6: Statistics of Sprout

Start at: 2018-04-17 19:52:19  
End at: 2018-04-17 19:52:49  
Local clock offset: 0.084 ms  
Remote clock offset: -9.11 ms

# Below is generated by plot.py at 2018-04-17 22:13:58  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 21.83 Mbit/s  
95th percentile per-packet one-way delay: 36.486 ms  
Loss rate: 0.10%  
-- Flow 1:  
Average throughput: 11.02 Mbit/s  
95th percentile per-packet one-way delay: 35.841 ms  
Loss rate: 0.06%  
-- Flow 2:  
Average throughput: 10.99 Mbit/s  
95th percentile per-packet one-way delay: 36.825 ms  
Loss rate: 0.22%  
-- Flow 3:  
Average throughput: 10.64 Mbit/s  
95th percentile per-packet one-way delay: 37.739 ms  
Loss rate: 0.00%

Run 6: Report of Sprout — Data Link

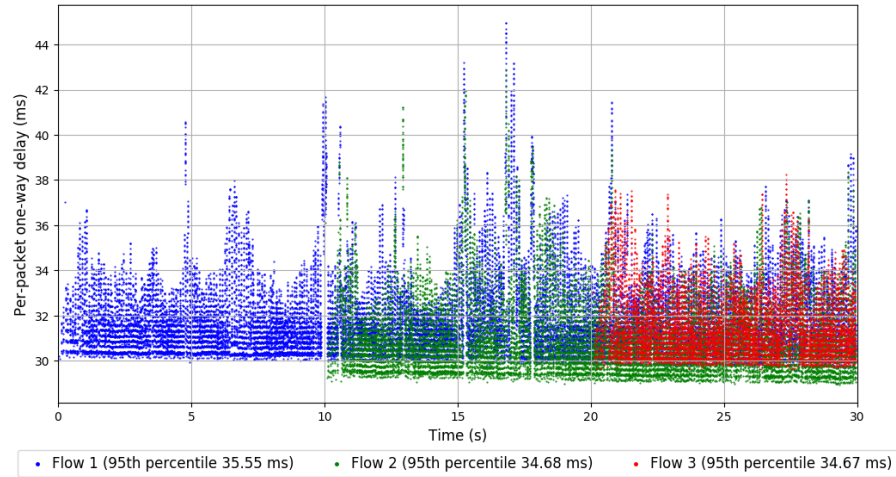
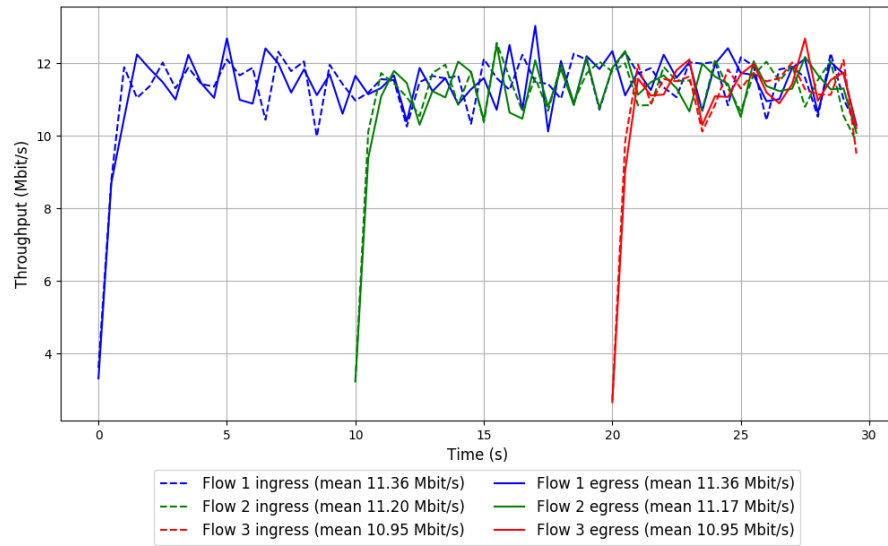


Run 7: Statistics of Sprout

Start at: 2018-04-17 20:21:07  
End at: 2018-04-17 20:21:37  
Local clock offset: -0.296 ms  
Remote clock offset: -9.413 ms

# Below is generated by plot.py at 2018-04-17 22:13:58  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 22.40 Mbit/s  
95th percentile per-packet one-way delay: 35.145 ms  
Loss rate: 0.13%  
-- Flow 1:  
Average throughput: 11.36 Mbit/s  
95th percentile per-packet one-way delay: 35.546 ms  
Loss rate: 0.06%  
-- Flow 2:  
Average throughput: 11.17 Mbit/s  
95th percentile per-packet one-way delay: 34.682 ms  
Loss rate: 0.31%  
-- Flow 3:  
Average throughput: 10.95 Mbit/s  
95th percentile per-packet one-way delay: 34.668 ms  
Loss rate: 0.00%

## Run 7: Report of Sprout — Data Link

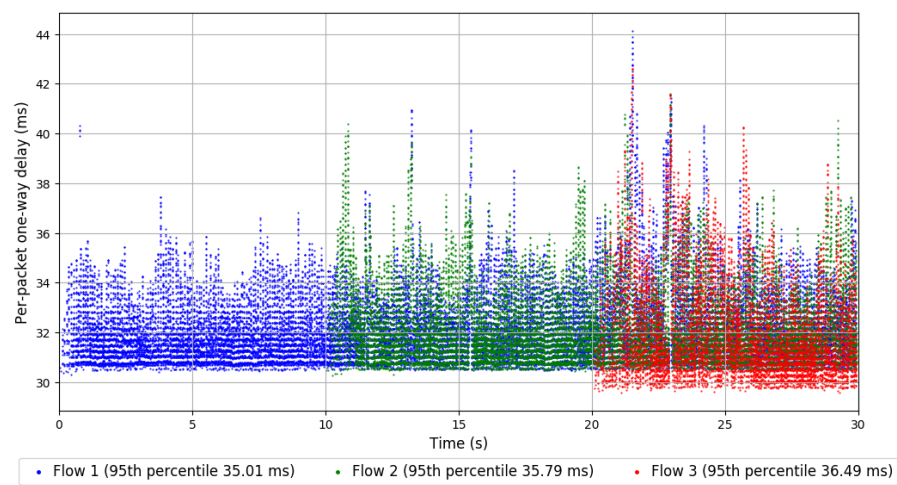
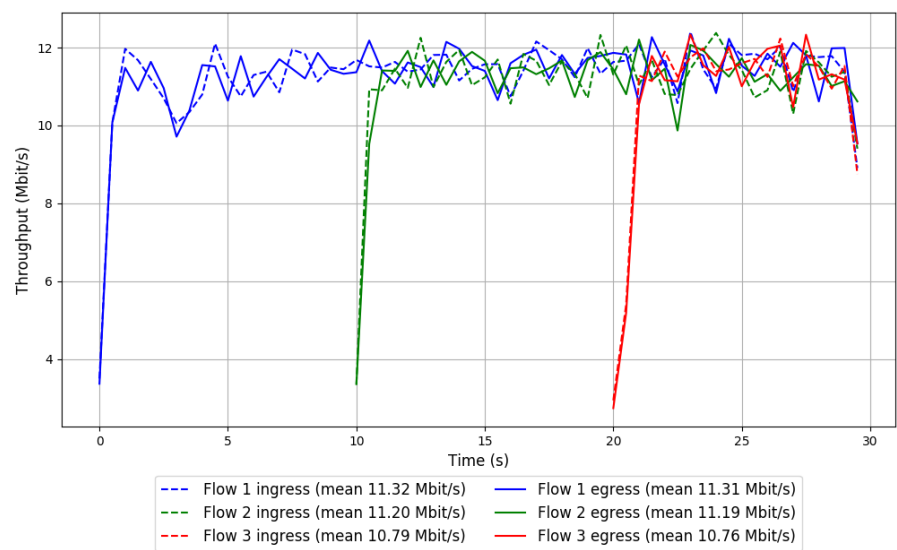


Run 8: Statistics of Sprout

Start at: 2018-04-17 20:49:54  
End at: 2018-04-17 20:50:24  
Local clock offset: -0.263 ms  
Remote clock offset: -1.401 ms

```
# Below is generated by plot.py at 2018-04-17 22:13:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 22.30 Mbit/s
95th percentile per-packet one-way delay: 35.547 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 11.31 Mbit/s
95th percentile per-packet one-way delay: 35.006 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 11.19 Mbit/s
95th percentile per-packet one-way delay: 35.792 ms
Loss rate: 0.13%
-- Flow 3:
Average throughput: 10.76 Mbit/s
95th percentile per-packet one-way delay: 36.486 ms
Loss rate: 0.21%
```

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-04-17 21:17:24

End at: 2018-04-17 21:17:54

Local clock offset: 0.136 ms

Remote clock offset: 5.786 ms

# Below is generated by plot.py at 2018-04-17 22:14:00

# Datalink statistics

-- Total of 3 flows:

Average throughput: 22.90 Mbit/s

95th percentile per-packet one-way delay: 36.453 ms

Loss rate: 0.19%

-- Flow 1:

Average throughput: 11.48 Mbit/s

95th percentile per-packet one-way delay: 36.276 ms

Loss rate: 0.14%

-- Flow 2:

Average throughput: 11.53 Mbit/s

95th percentile per-packet one-way delay: 36.166 ms

Loss rate: 0.16%

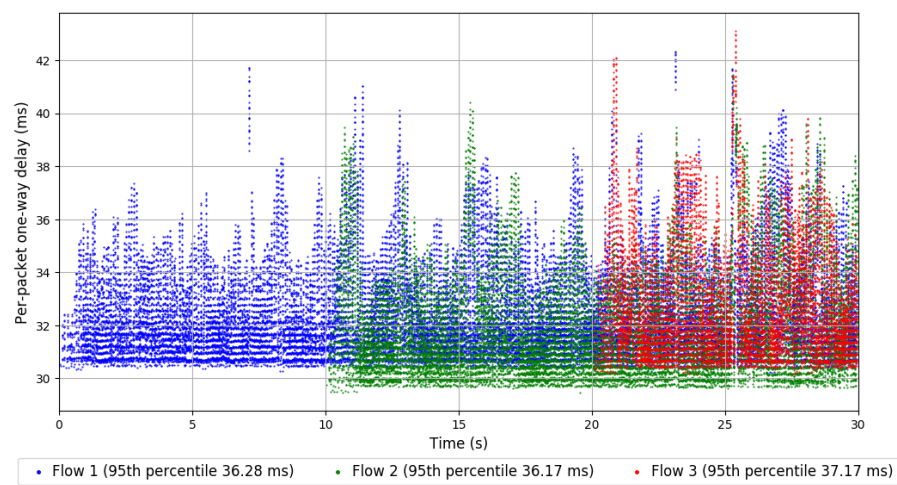
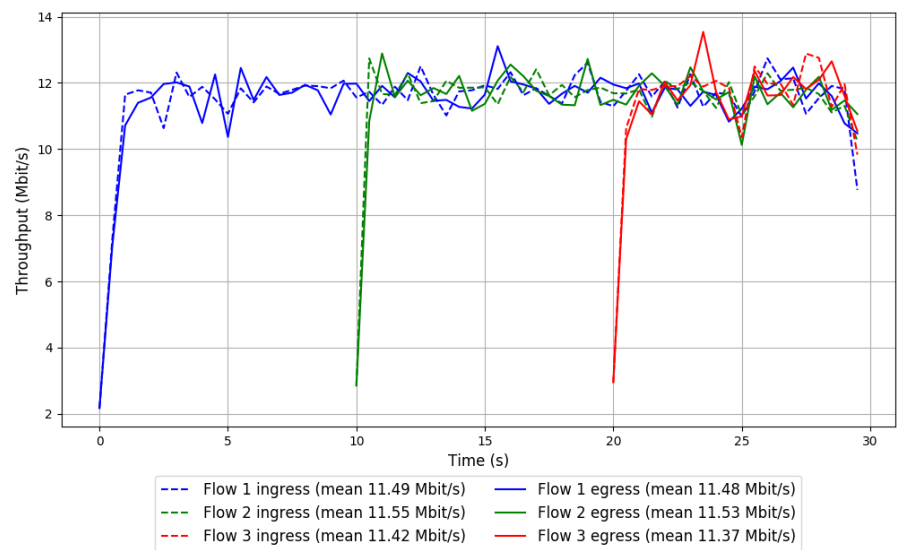
-- Flow 3:

Average throughput: 11.37 Mbit/s

95th percentile per-packet one-way delay: 37.171 ms

Loss rate: 0.44%

Run 9: Report of Sprout — Data Link

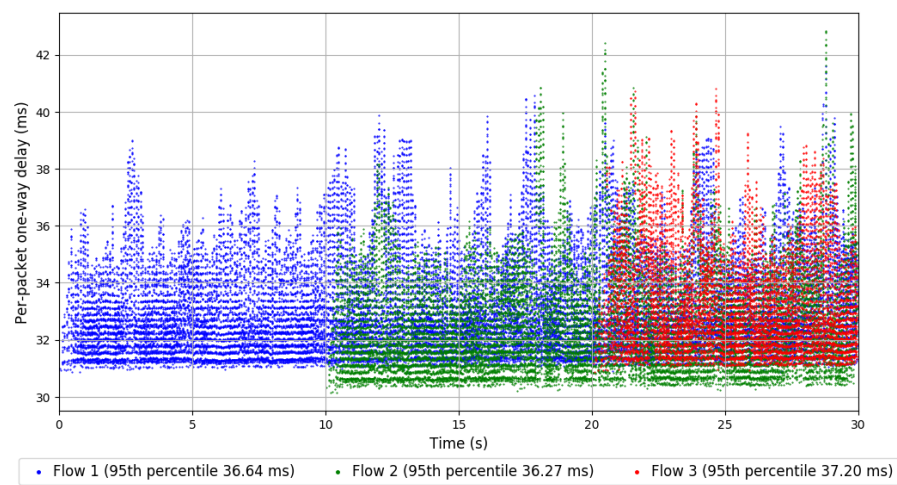
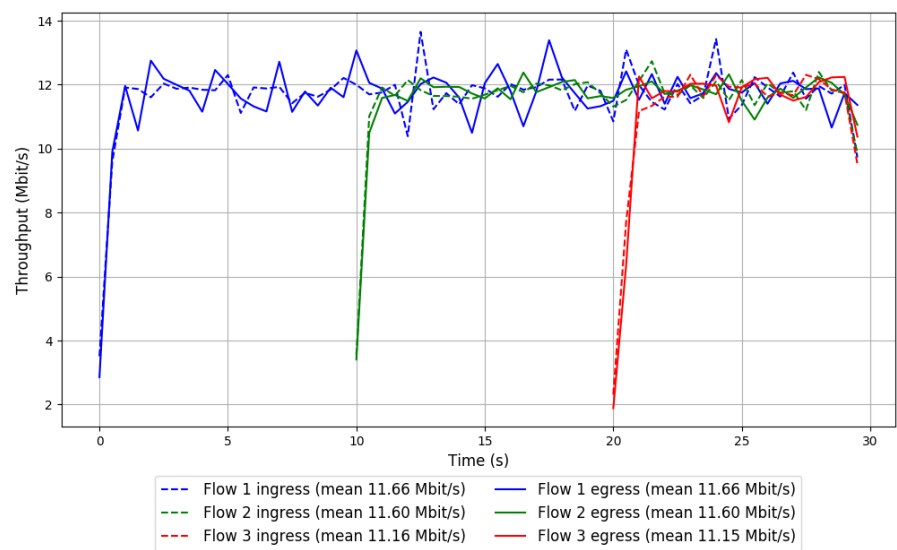


Run 10: Statistics of Sprout

Start at: 2018-04-17 21:42:17  
End at: 2018-04-17 21:42:47  
Local clock offset: -0.311 ms  
Remote clock offset: -1.016 ms

```
# Below is generated by plot.py at 2018-04-17 22:14:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 23.06 Mbit/s
95th percentile per-packet one-way delay: 36.666 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 11.66 Mbit/s
95th percentile per-packet one-way delay: 36.643 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 11.60 Mbit/s
95th percentile per-packet one-way delay: 36.271 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 11.15 Mbit/s
95th percentile per-packet one-way delay: 37.198 ms
Loss rate: 0.00%
```

Run 10: Report of Sprout — Data Link

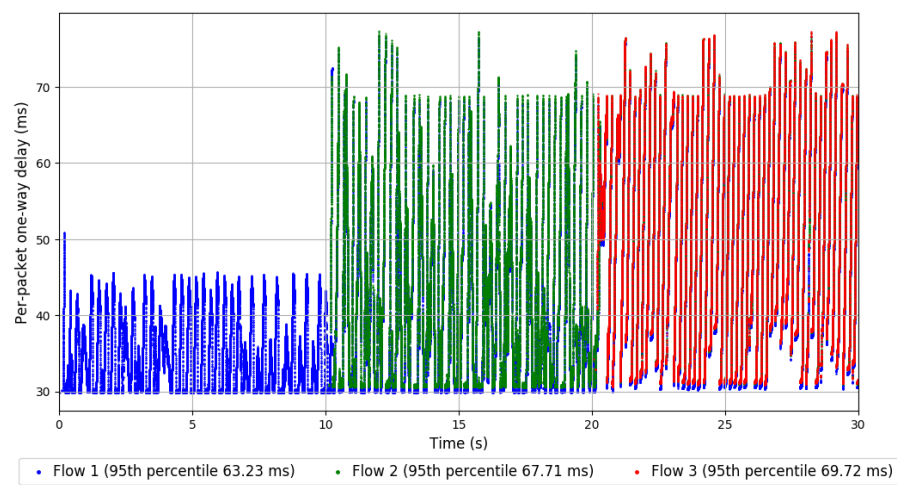
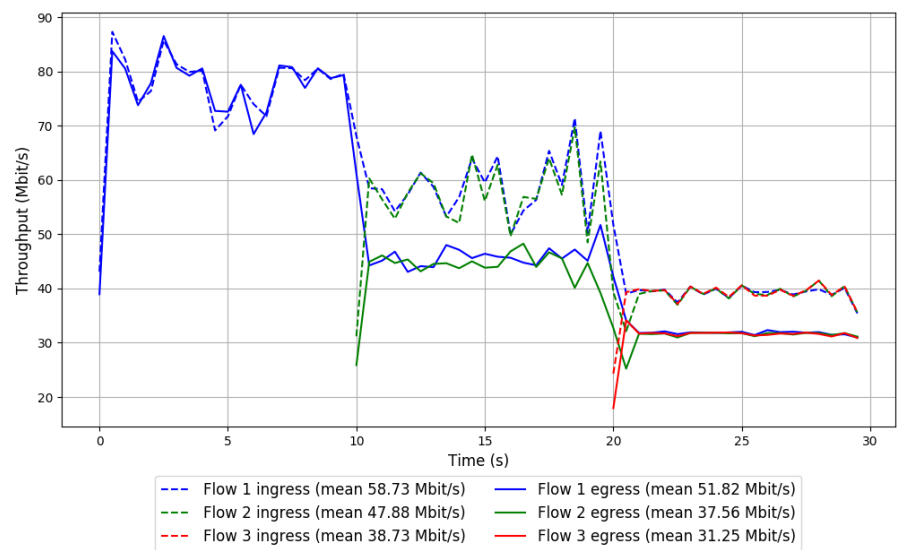


Run 1: Statistics of TaoVA-100x

Start at: 2018-04-17 17:40:19  
End at: 2018-04-17 17:40:49  
Local clock offset: 2.038 ms  
Remote clock offset: -2.259 ms

# Below is generated by plot.py at 2018-04-17 22:16:10  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 87.18 Mbit/s  
95th percentile per-packet one-way delay: 66.302 ms  
Loss rate: 15.74%  
-- Flow 1:  
Average throughput: 51.82 Mbit/s  
95th percentile per-packet one-way delay: 63.230 ms  
Loss rate: 11.78%  
-- Flow 2:  
Average throughput: 37.56 Mbit/s  
95th percentile per-packet one-way delay: 67.708 ms  
Loss rate: 21.59%  
-- Flow 3:  
Average throughput: 31.25 Mbit/s  
95th percentile per-packet one-way delay: 69.720 ms  
Loss rate: 19.36%

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



Run 2: Statistics of TaoVA-100x

Start at: 2018-04-17 18:04:32

End at: 2018-04-17 18:05:02

Local clock offset: 4.328 ms

Remote clock offset: 0.286 ms

# Below is generated by plot.py at 2018-04-17 22:16:16

# Datalink statistics

-- Total of 3 flows:

Average throughput: 86.81 Mbit/s

95th percentile per-packet one-way delay: 65.043 ms

Loss rate: 15.65%

-- Flow 1:

Average throughput: 50.87 Mbit/s

95th percentile per-packet one-way delay: 63.057 ms

Loss rate: 11.79%

-- Flow 2:

Average throughput: 38.54 Mbit/s

95th percentile per-packet one-way delay: 65.748 ms

Loss rate: 21.00%

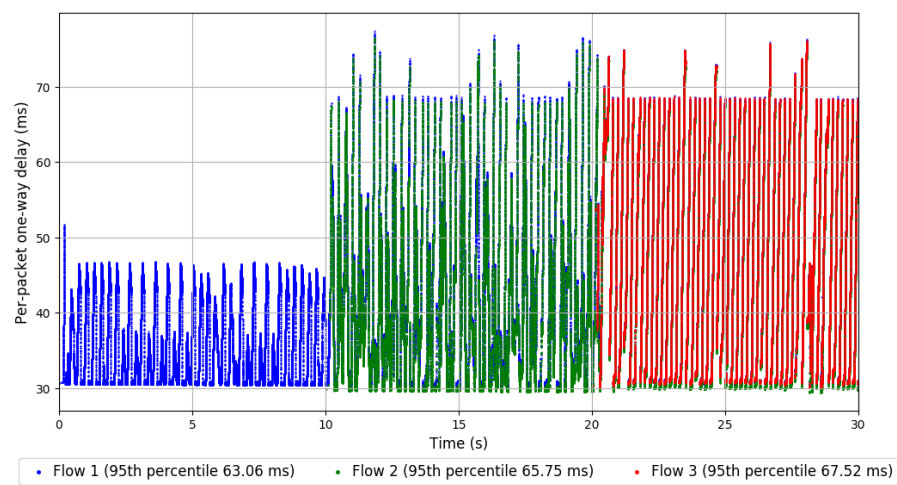
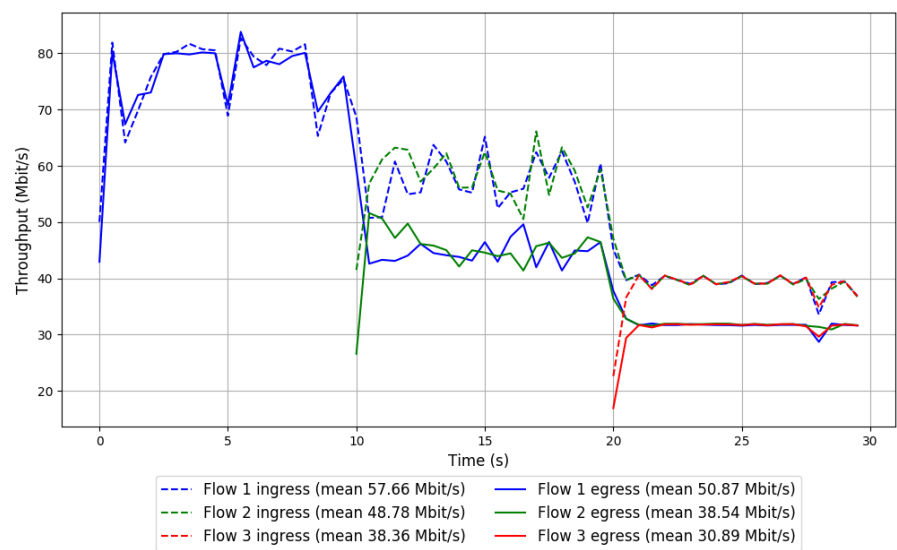
-- Flow 3:

Average throughput: 30.89 Mbit/s

95th percentile per-packet one-way delay: 67.519 ms

Loss rate: 19.48%

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

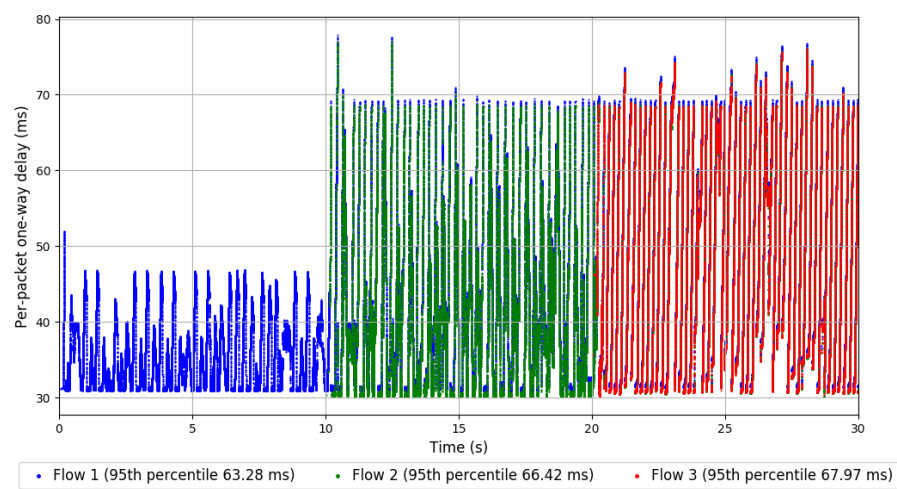
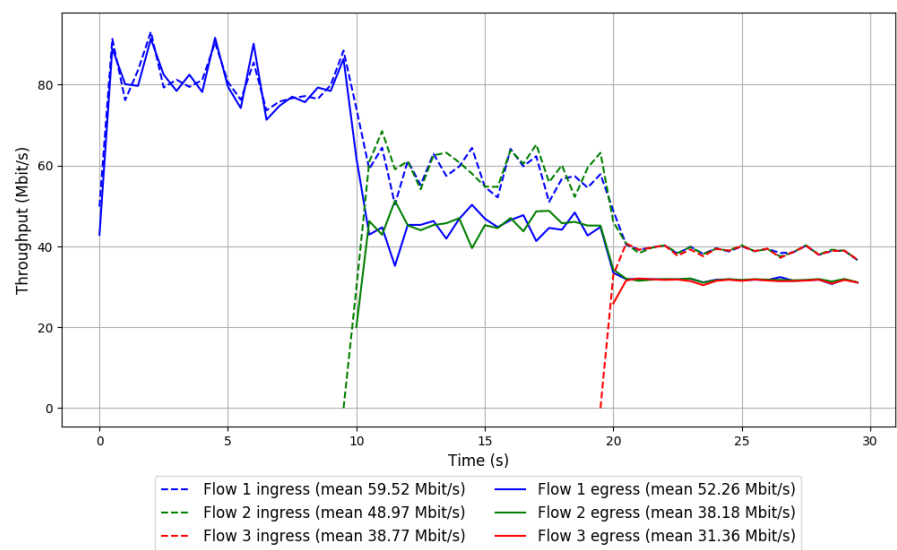


Run 3: Statistics of TaoVA-100x

Start at: 2018-04-17 18:28:26  
End at: 2018-04-17 18:28:56  
Local clock offset: 6.511 ms  
Remote clock offset: 11.788 ms

# Below is generated by plot.py at 2018-04-17 22:16:27  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 88.13 Mbit/s  
95th percentile per-packet one-way delay: 65.714 ms  
Loss rate: 16.11%  
-- Flow 1:  
Average throughput: 52.26 Mbit/s  
95th percentile per-packet one-way delay: 63.281 ms  
Loss rate: 12.20%  
-- Flow 2:  
Average throughput: 38.18 Mbit/s  
95th percentile per-packet one-way delay: 66.415 ms  
Loss rate: 22.03%  
-- Flow 3:  
Average throughput: 31.36 Mbit/s  
95th percentile per-packet one-way delay: 67.965 ms  
Loss rate: 19.14%

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

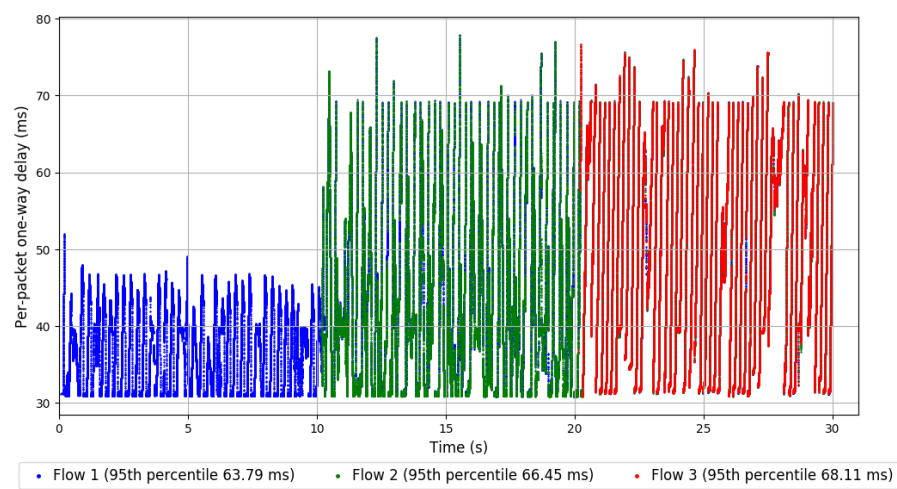
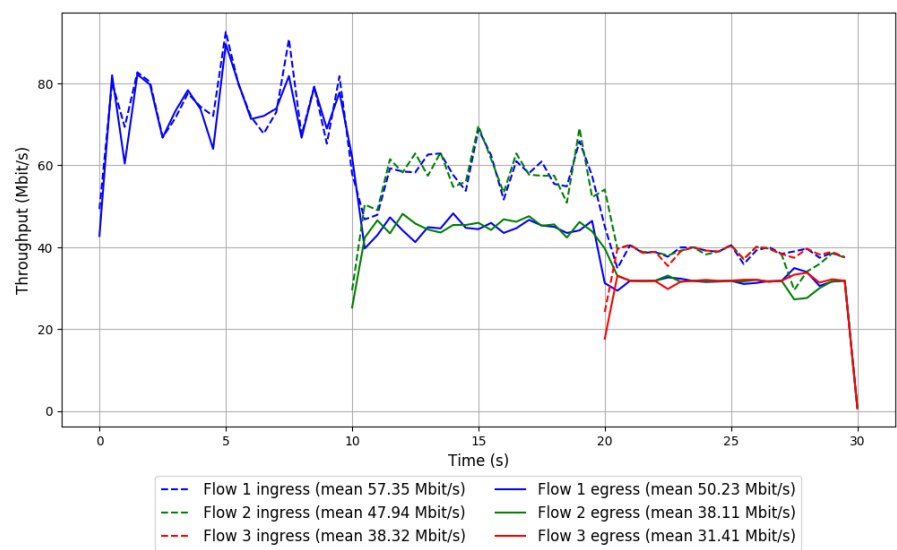


Run 4: Statistics of TaoVA-100x

Start at: 2018-04-17 18:52:37  
End at: 2018-04-17 18:53:07  
Local clock offset: -0.27 ms  
Remote clock offset: 15.002 ms

# Below is generated by plot.py at 2018-04-17 22:16:27  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 86.04 Mbit/s  
95th percentile per-packet one-way delay: 65.641 ms  
Loss rate: 15.59%  
-- Flow 1:  
Average throughput: 50.23 Mbit/s  
95th percentile per-packet one-way delay: 63.792 ms  
Loss rate: 12.36%  
-- Flow 2:  
Average throughput: 38.11 Mbit/s  
95th percentile per-packet one-way delay: 66.455 ms  
Loss rate: 20.48%  
-- Flow 3:  
Average throughput: 31.41 Mbit/s  
95th percentile per-packet one-way delay: 68.113 ms  
Loss rate: 17.88%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-04-17 19:16:56

End at: 2018-04-17 19:17:27

Local clock offset: 0.306 ms

Remote clock offset: 5.614 ms

# Below is generated by plot.py at 2018-04-17 22:16:28

# Datalink statistics

-- Total of 3 flows:

Average throughput: 87.19 Mbit/s

95th percentile per-packet one-way delay: 65.514 ms

Loss rate: 16.51%

-- Flow 1:

Average throughput: 51.59 Mbit/s

95th percentile per-packet one-way delay: 62.876 ms

Loss rate: 12.47%

-- Flow 2:

Average throughput: 39.07 Mbit/s

95th percentile per-packet one-way delay: 66.723 ms

Loss rate: 22.10%

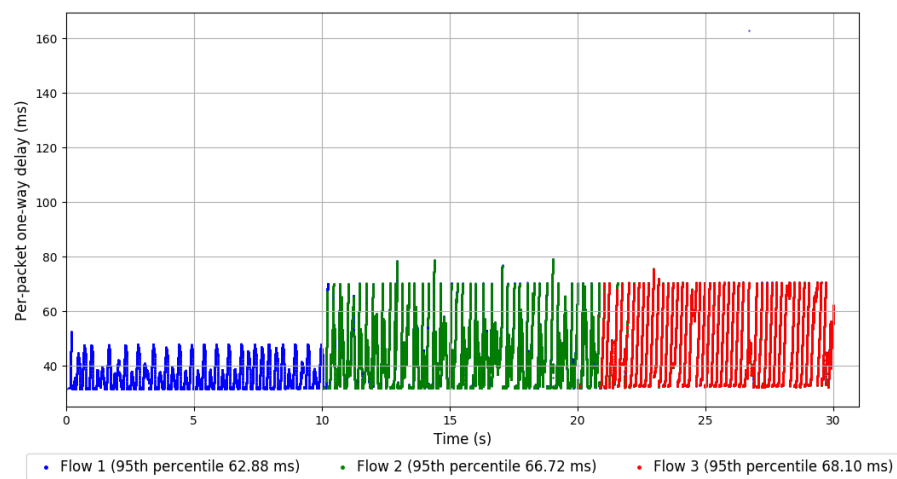
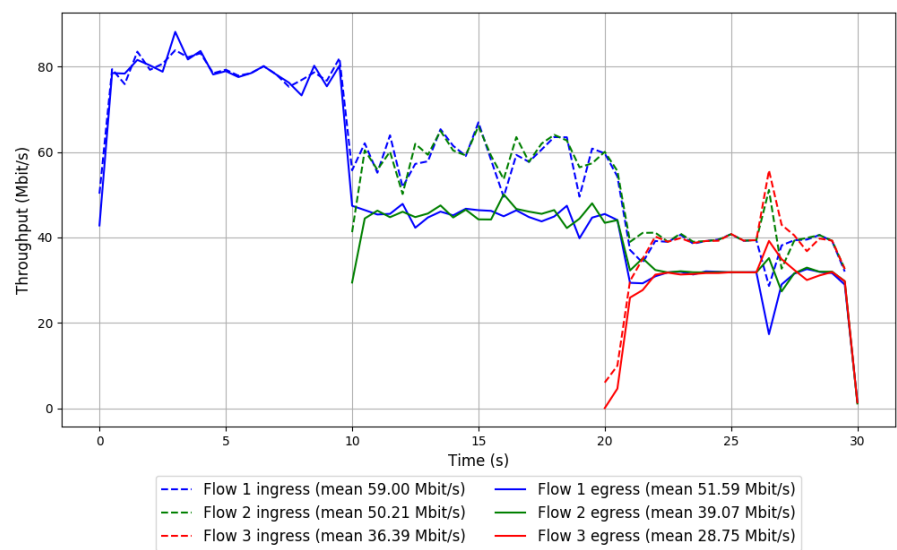
-- Flow 3:

Average throughput: 28.75 Mbit/s

95th percentile per-packet one-way delay: 68.099 ms

Loss rate: 20.76%

Run 5: Report of TaoVA-100x — Data Link

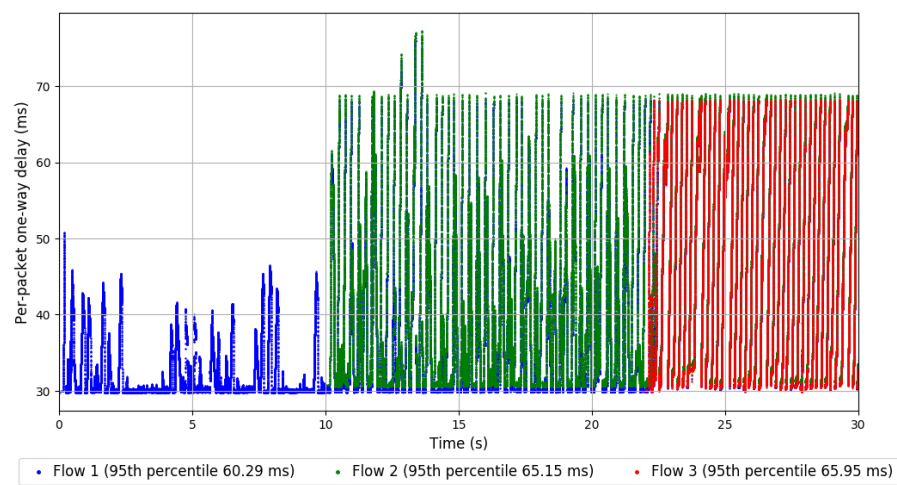
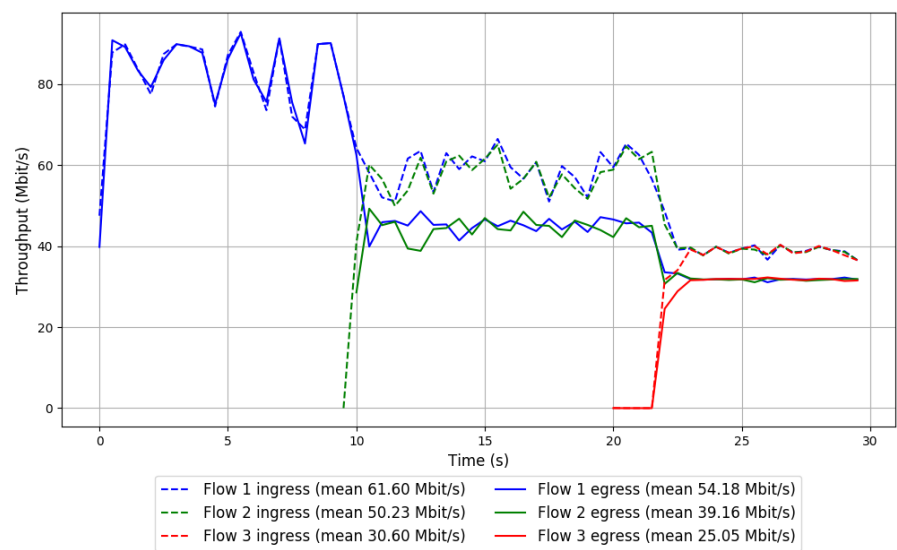


Run 6: Statistics of TaoVA-100x

Start at: 2018-04-17 19:43:08  
End at: 2018-04-17 19:43:38  
Local clock offset: 0.597 ms  
Remote clock offset: -10.061 ms

# Below is generated by plot.py at 2018-04-17 22:16:33  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 88.59 Mbit/s  
95th percentile per-packet one-way delay: 63.438 ms  
Loss rate: 15.80%  
-- Flow 1:  
Average throughput: 54.18 Mbit/s  
95th percentile per-packet one-way delay: 60.292 ms  
Loss rate: 12.03%  
-- Flow 2:  
Average throughput: 39.16 Mbit/s  
95th percentile per-packet one-way delay: 65.149 ms  
Loss rate: 22.03%  
-- Flow 3:  
Average throughput: 25.05 Mbit/s  
95th percentile per-packet one-way delay: 65.953 ms  
Loss rate: 18.11%

Run 6: Report of TaoVA-100x — Data Link

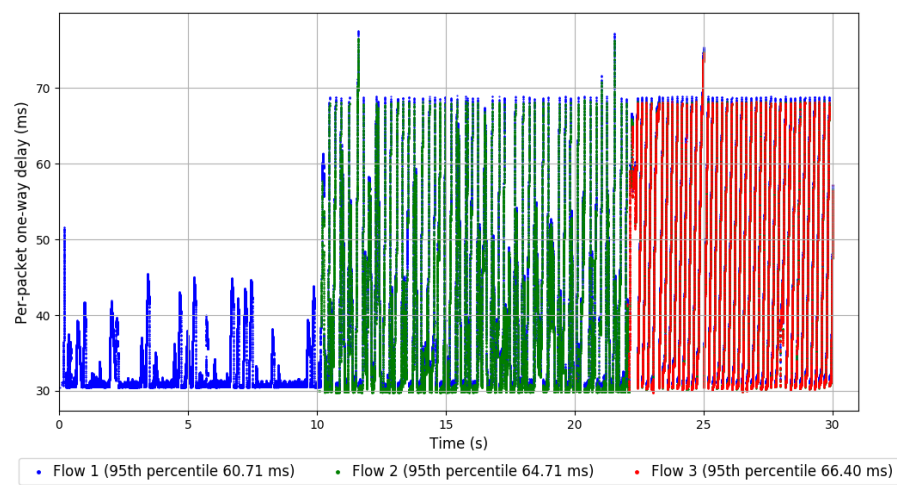
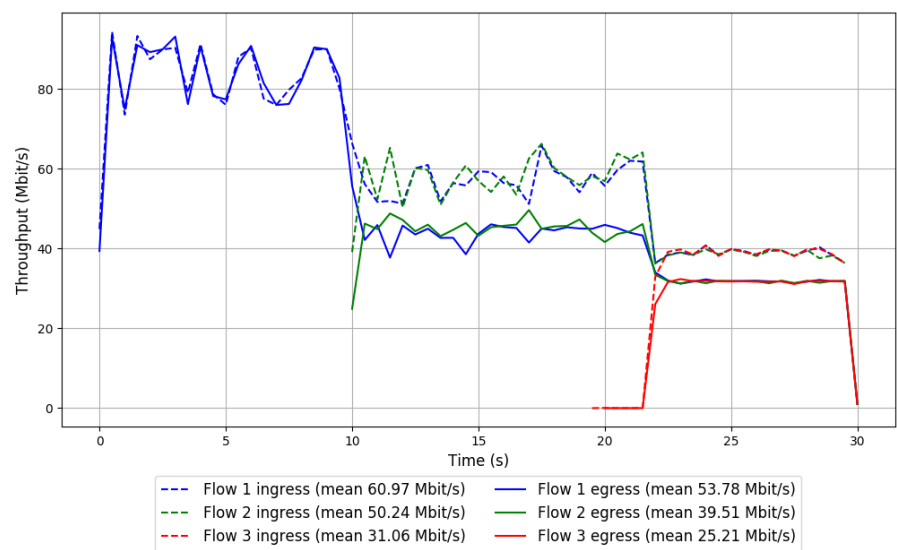


Run 7: Statistics of TaoVA-100x

Start at: 2018-04-17 20:11:56  
End at: 2018-04-17 20:12:26  
Local clock offset: -0.304 ms  
Remote clock offset: -10.807 ms

# Below is generated by plot.py at 2018-04-17 22:16:35  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 88.50 Mbit/s  
95th percentile per-packet one-way delay: 63.521 ms  
Loss rate: 15.45%  
-- Flow 1:  
Average throughput: 53.78 Mbit/s  
95th percentile per-packet one-way delay: 60.710 ms  
Loss rate: 11.72%  
-- Flow 2:  
Average throughput: 39.51 Mbit/s  
95th percentile per-packet one-way delay: 64.711 ms  
Loss rate: 21.25%  
-- Flow 3:  
Average throughput: 25.21 Mbit/s  
95th percentile per-packet one-way delay: 66.400 ms  
Loss rate: 18.64%

Run 7: Report of TaoVA-100x — Data Link

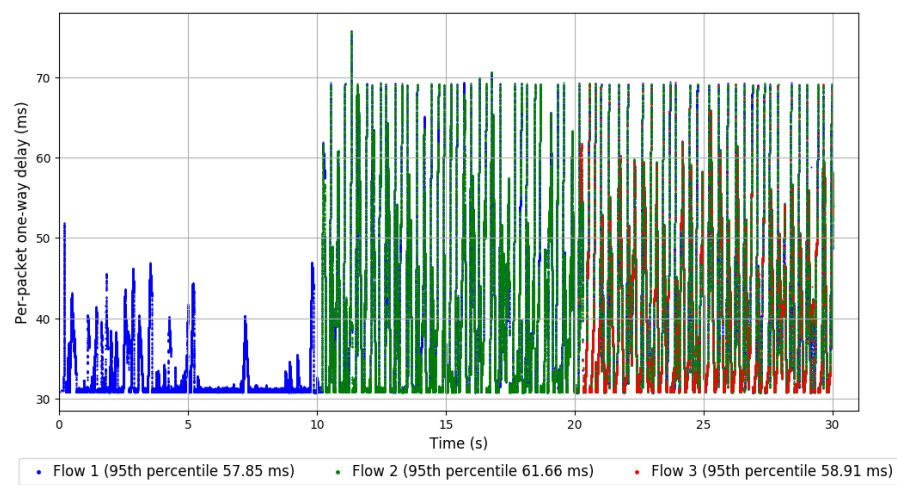
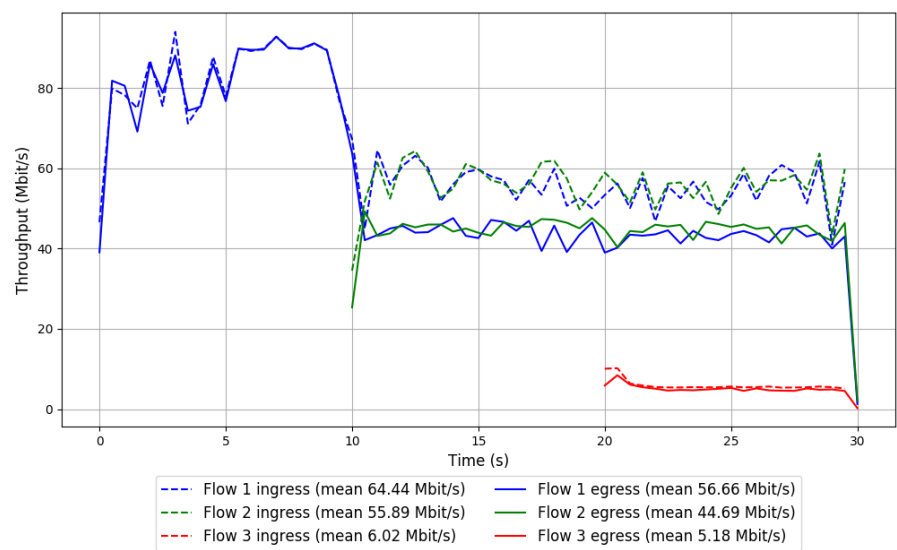


Run 8: Statistics of TaoVA-100x

Start at: 2018-04-17 20:40:34  
End at: 2018-04-17 20:41:04  
Local clock offset: -0.346 ms  
Remote clock offset: -1.522 ms

# Below is generated by plot.py at 2018-04-17 22:16:35  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 88.15 Mbit/s  
95th percentile per-packet one-way delay: 59.460 ms  
Loss rate: 14.89%  
-- Flow 1:  
Average throughput: 56.66 Mbit/s  
95th percentile per-packet one-way delay: 57.854 ms  
Loss rate: 12.00%  
-- Flow 2:  
Average throughput: 44.69 Mbit/s  
95th percentile per-packet one-way delay: 61.661 ms  
Loss rate: 19.95%  
-- Flow 3:  
Average throughput: 5.18 Mbit/s  
95th percentile per-packet one-way delay: 58.912 ms  
Loss rate: 13.69%

Run 8: Report of TaoVA-100x — Data Link



Run 9: Statistics of TaoVA-100x

Start at: 2018-04-17 21:08:33

End at: 2018-04-17 21:09:03

Local clock offset: 0.162 ms

Remote clock offset: 4.44 ms

# Below is generated by plot.py at 2018-04-17 22:18:51

# Datalink statistics

-- Total of 3 flows:

Average throughput: 89.05 Mbit/s

95th percentile per-packet one-way delay: 63.333 ms

Loss rate: 15.21%

-- Flow 1:

Average throughput: 53.26 Mbit/s

95th percentile per-packet one-way delay: 60.862 ms

Loss rate: 11.23%

-- Flow 2:

Average throughput: 38.04 Mbit/s

95th percentile per-packet one-way delay: 64.594 ms

Loss rate: 21.40%

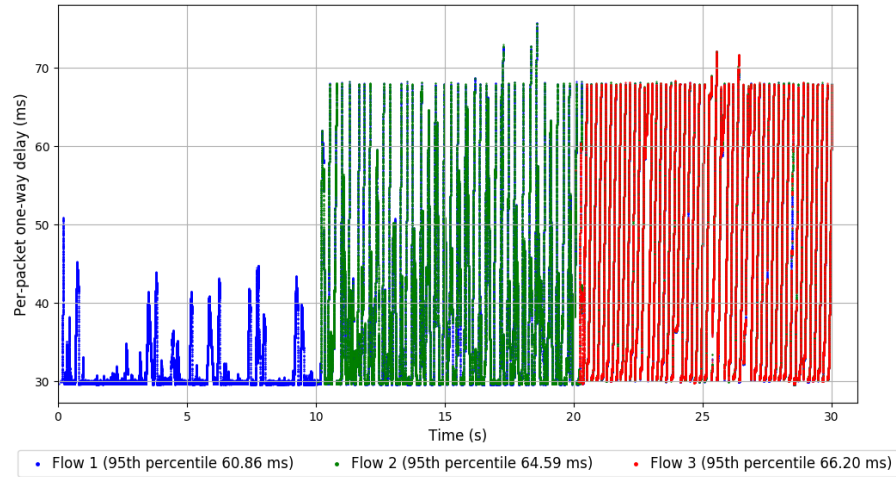
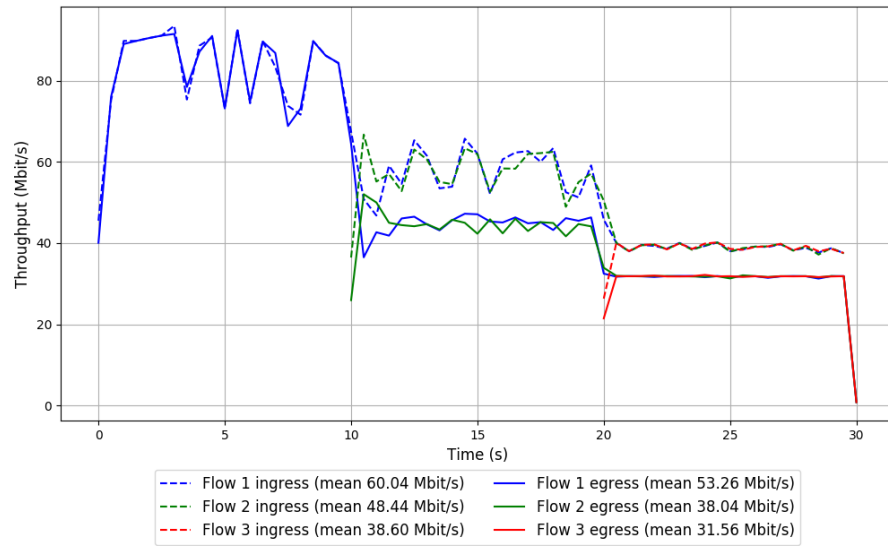
-- Flow 3:

Average throughput: 31.56 Mbit/s

95th percentile per-packet one-way delay: 66.200 ms

Loss rate: 18.30%

# Run 9: Report of TaoVA-100x — Data Link

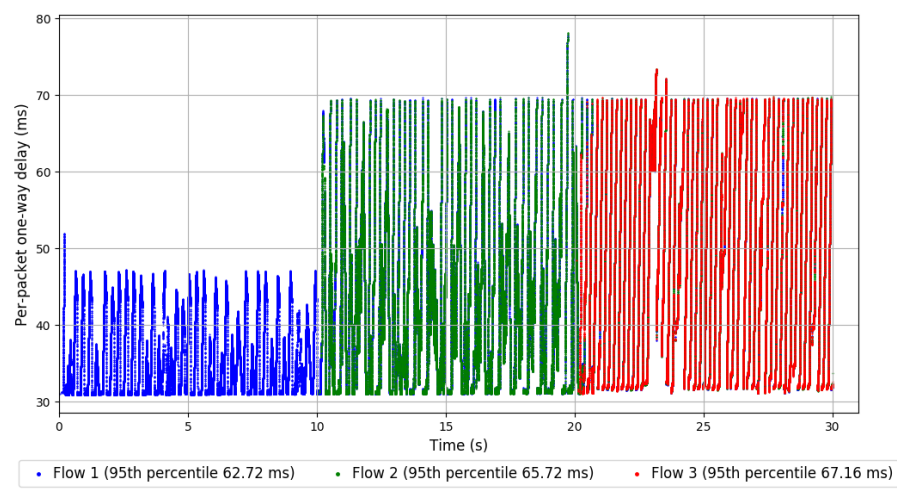
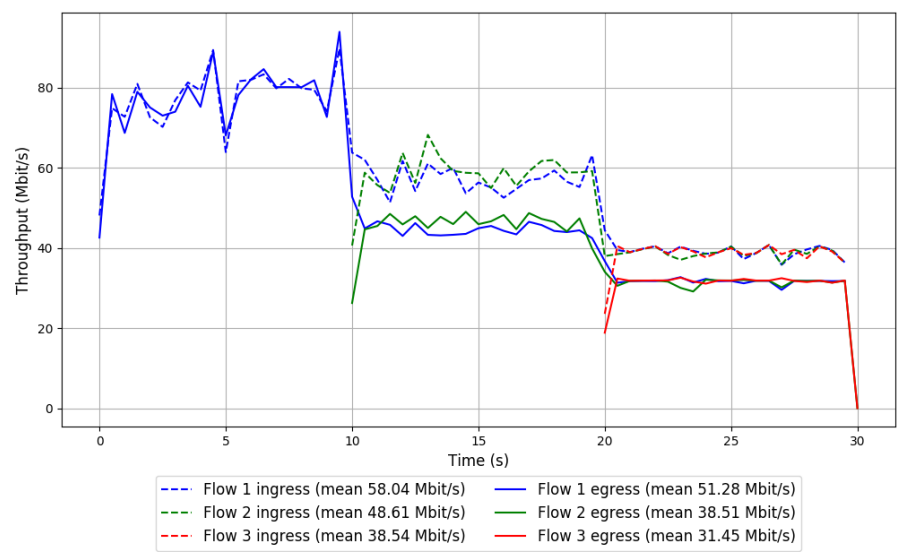


```
Run 10: Statistics of TaoVA-100x

Start at: 2018-04-17 21:34:57
End at: 2018-04-17 21:35:27
Local clock offset: -0.171 ms
Remote clock offset: 1.393 ms

# Below is generated by plot.py at 2018-04-17 22:18:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.33 Mbit/s
95th percentile per-packet one-way delay: 65.045 ms
Loss rate: 15.37%
-- Flow 1:
Average throughput: 51.28 Mbit/s
95th percentile per-packet one-way delay: 62.716 ms
Loss rate: 11.66%
-- Flow 2:
Average throughput: 38.51 Mbit/s
95th percentile per-packet one-way delay: 65.722 ms
Loss rate: 20.78%
-- Flow 3:
Average throughput: 31.45 Mbit/s
95th percentile per-packet one-way delay: 67.160 ms
Loss rate: 18.54%
```

Run 10: Report of TaoVA-100x — Data Link

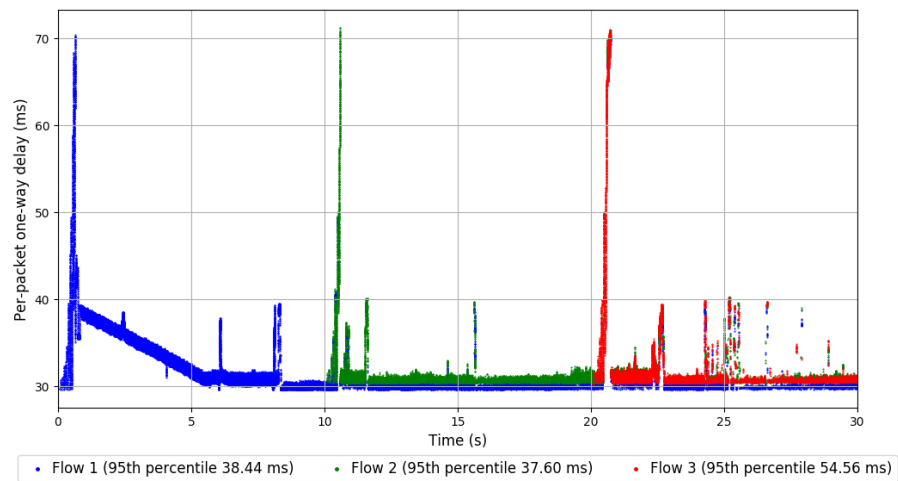
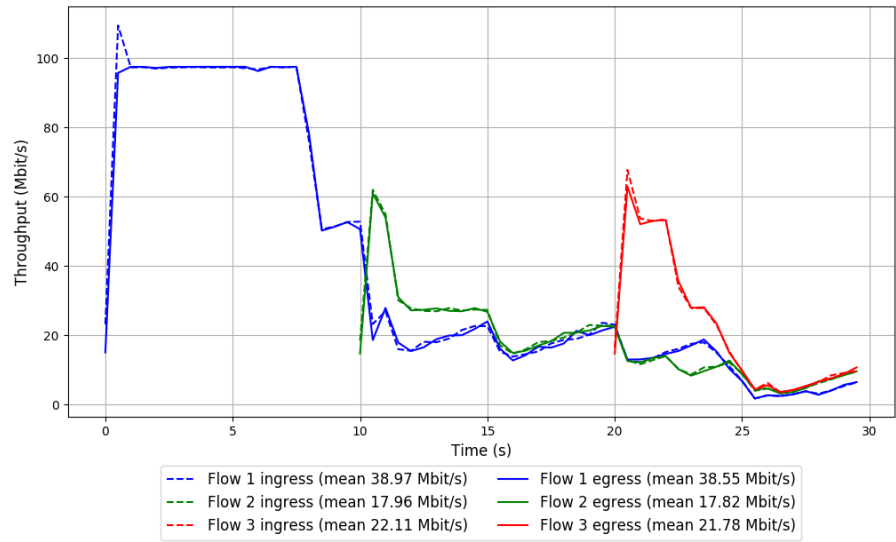


Run 1: Statistics of TCP Vegas

Start at: 2018-04-17 17:46:07  
End at: 2018-04-17 17:46:37  
Local clock offset: 2.33 ms  
Remote clock offset: -2.396 ms

# Below is generated by plot.py at 2018-04-17 22:18:55  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 57.63 Mbit/s  
95th percentile per-packet one-way delay: 38.612 ms  
Loss rate: 1.11%  
-- Flow 1:  
Average throughput: 38.55 Mbit/s  
95th percentile per-packet one-way delay: 38.439 ms  
Loss rate: 1.10%  
-- Flow 2:  
Average throughput: 17.82 Mbit/s  
95th percentile per-packet one-way delay: 37.596 ms  
Loss rate: 0.92%  
-- Flow 3:  
Average throughput: 21.78 Mbit/s  
95th percentile per-packet one-way delay: 54.558 ms  
Loss rate: 1.49%

# Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-04-17 18:10:08

End at: 2018-04-17 18:10:38

Local clock offset: 5.156 ms

Remote clock offset: 5.109 ms

# Below is generated by plot.py at 2018-04-17 22:18:55

# Datalink statistics

-- Total of 3 flows:

Average throughput: 36.19 Mbit/s

95th percentile per-packet one-way delay: 45.235 ms

Loss rate: 1.53%

-- Flow 1:

Average throughput: 12.91 Mbit/s

95th percentile per-packet one-way delay: 45.447 ms

Loss rate: 1.60%

-- Flow 2:

Average throughput: 21.67 Mbit/s

95th percentile per-packet one-way delay: 44.381 ms

Loss rate: 0.31%

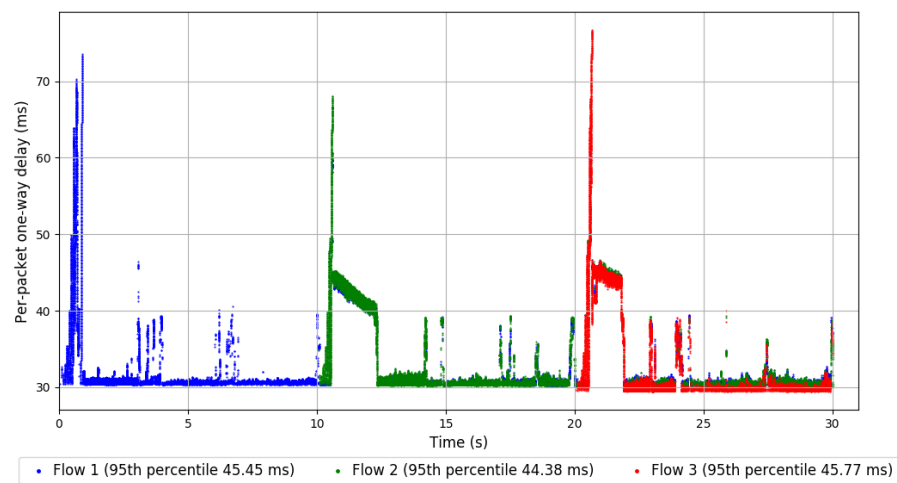
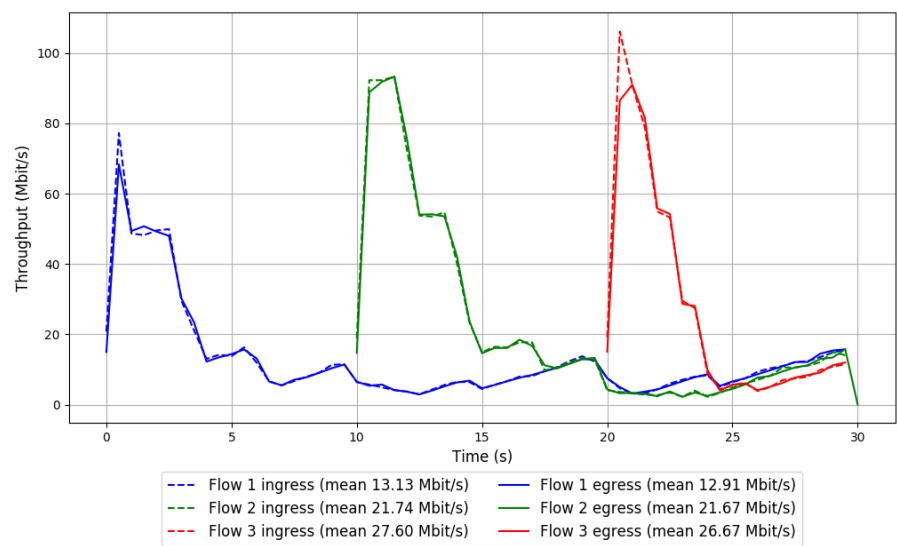
-- Flow 3:

Average throughput: 26.67 Mbit/s

95th percentile per-packet one-way delay: 45.766 ms

Loss rate: 3.34%

Run 2: Report of TCP Vegas — Data Link

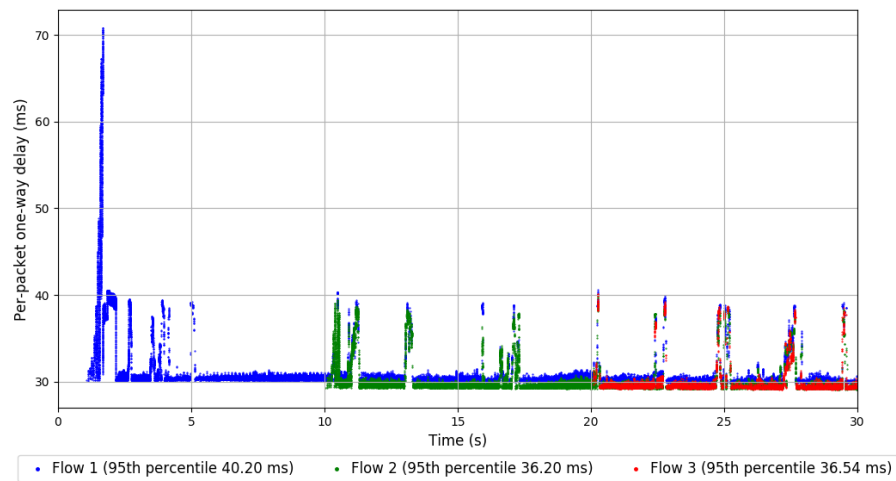
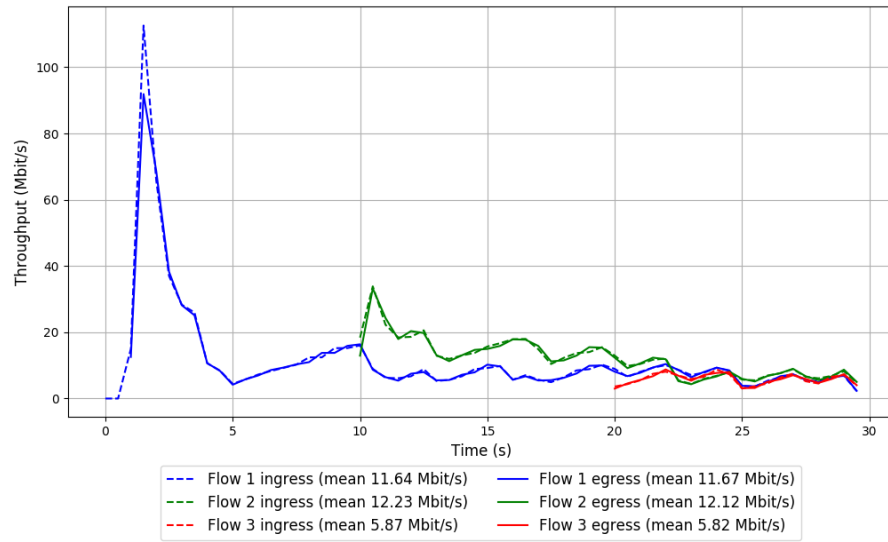


Run 3: Statistics of TCP Vegas

Start at: 2018-04-17 18:34:18  
End at: 2018-04-17 18:34:48  
Local clock offset: 4.51 ms  
Remote clock offset: 12.233 ms

# Below is generated by plot.py at 2018-04-17 22:18:55  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 22.01 Mbit/s  
95th percentile per-packet one-way delay: 39.500 ms  
Loss rate: 2.13%  
-- Flow 1:  
Average throughput: 11.67 Mbit/s  
95th percentile per-packet one-way delay: 40.199 ms  
Loss rate: 3.20%  
-- Flow 2:  
Average throughput: 12.12 Mbit/s  
95th percentile per-packet one-way delay: 36.199 ms  
Loss rate: 0.90%  
-- Flow 3:  
Average throughput: 5.82 Mbit/s  
95th percentile per-packet one-way delay: 36.539 ms  
Loss rate: 0.88%

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

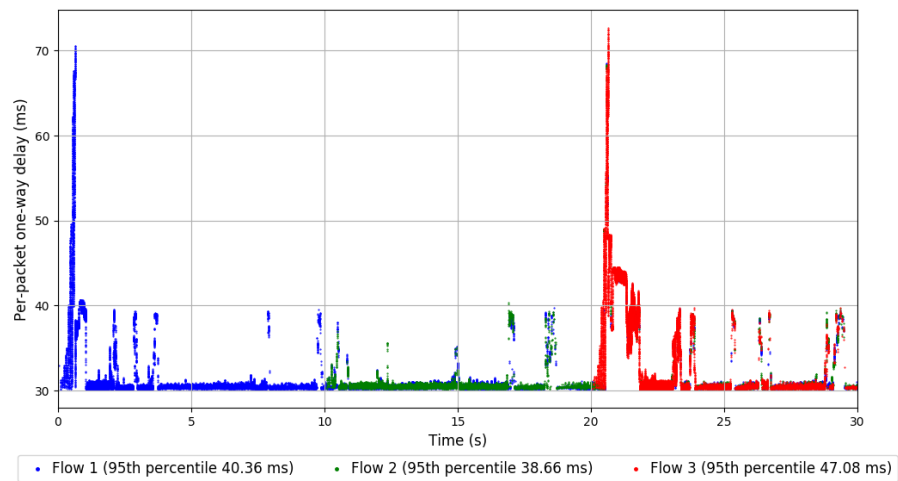
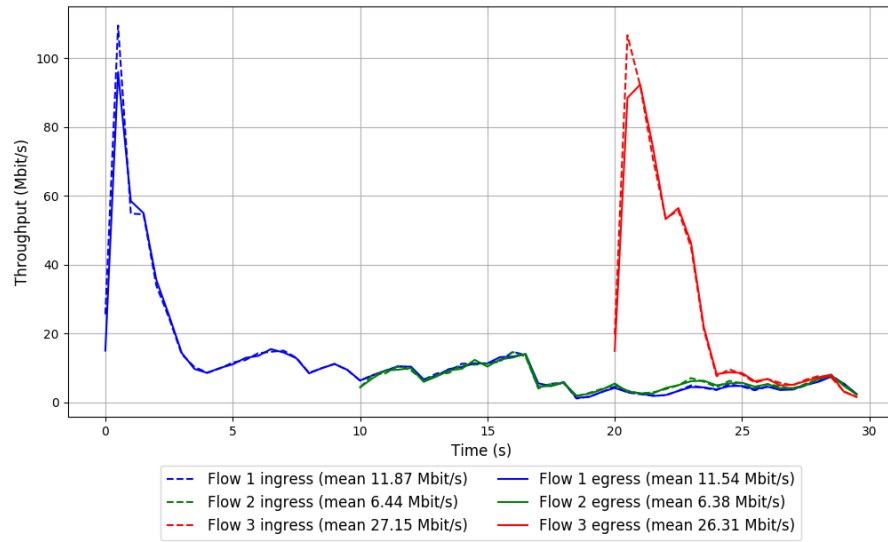


Run 4: Statistics of TCP Vegas

Start at: 2018-04-17 18:58:32  
End at: 2018-04-17 18:59:02  
Local clock offset: -0.741 ms  
Remote clock offset: 15.672 ms

# Below is generated by plot.py at 2018-04-17 22:18:55  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 24.50 Mbit/s  
95th percentile per-packet one-way delay: 44.142 ms  
Loss rate: 2.54%  
-- Flow 1:  
Average throughput: 11.54 Mbit/s  
95th percentile per-packet one-way delay: 40.359 ms  
Loss rate: 2.72%  
-- Flow 2:  
Average throughput: 6.38 Mbit/s  
95th percentile per-packet one-way delay: 38.657 ms  
Loss rate: 0.89%  
-- Flow 3:  
Average throughput: 26.31 Mbit/s  
95th percentile per-packet one-way delay: 47.079 ms  
Loss rate: 3.08%

#### Run 4: Report of TCP Vegas — Data Link

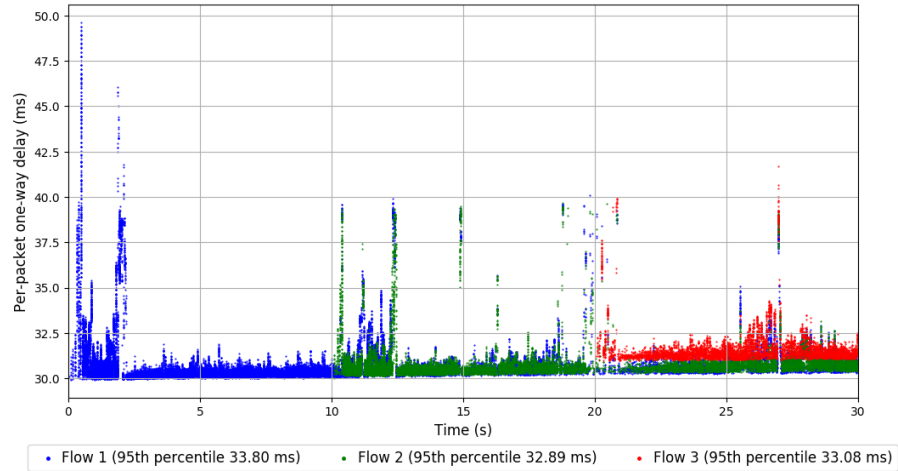
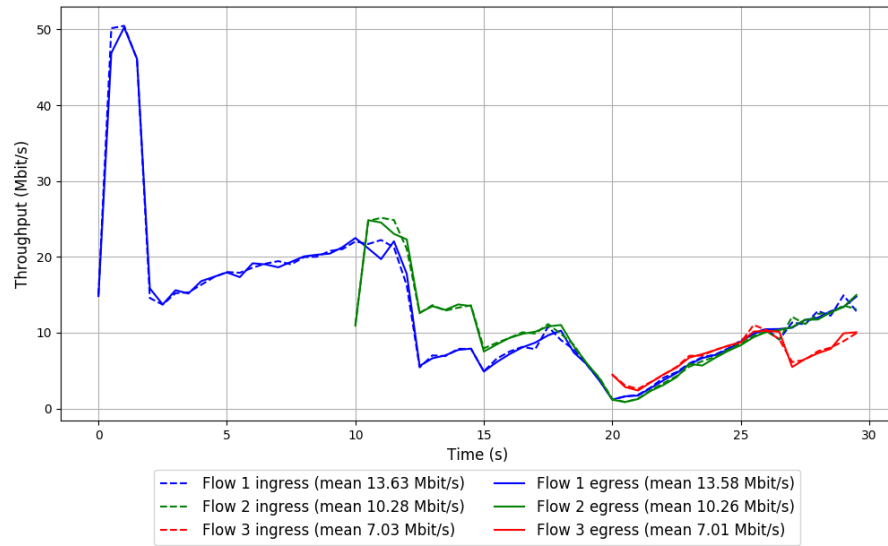


Run 5: Statistics of TCP Vegas

Start at: 2018-04-17 19:22:28  
End at: 2018-04-17 19:22:58  
Local clock offset: 0.652 ms  
Remote clock offset: -0.664 ms

# Below is generated by plot.py at 2018-04-17 22:18:55  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 22.74 Mbit/s  
95th percentile per-packet one-way delay: 33.401 ms  
Loss rate: 0.29%  
-- Flow 1:  
Average throughput: 13.58 Mbit/s  
95th percentile per-packet one-way delay: 33.796 ms  
Loss rate: 0.33%  
-- Flow 2:  
Average throughput: 10.26 Mbit/s  
95th percentile per-packet one-way delay: 32.888 ms  
Loss rate: 0.23%  
-- Flow 3:  
Average throughput: 7.01 Mbit/s  
95th percentile per-packet one-way delay: 33.075 ms  
Loss rate: 0.26%

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

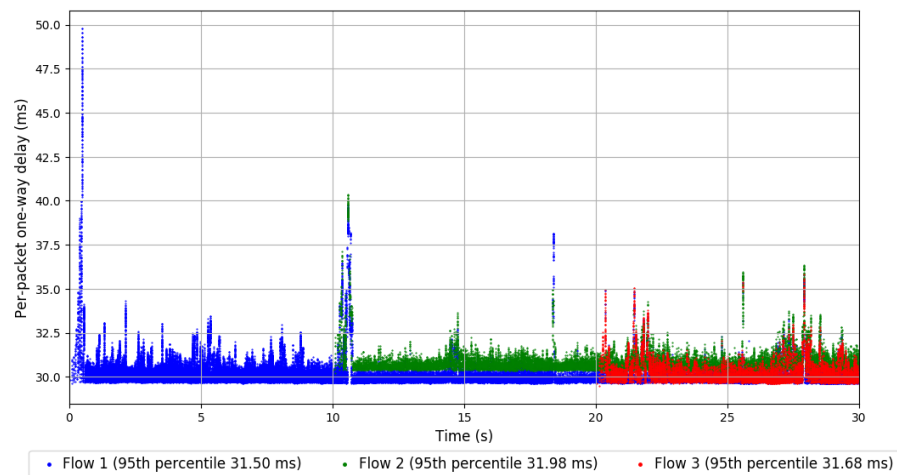
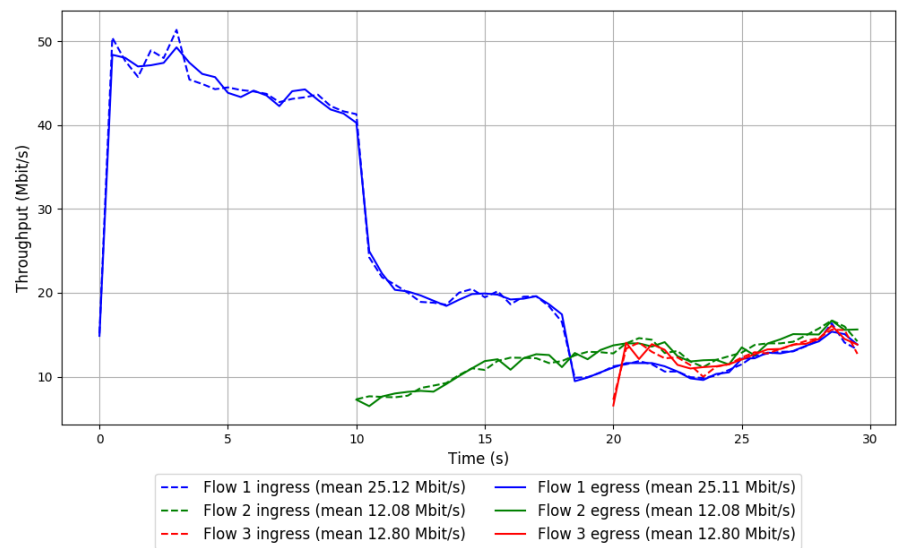


Run 6: Statistics of TCP Vegas

Start at: 2018-04-17 19:50:46  
End at: 2018-04-17 19:51:16  
Local clock offset: 0.154 ms  
Remote clock offset: -9.191 ms

# Below is generated by plot.py at 2018-04-17 22:18:55  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 37.38 Mbit/s  
95th percentile per-packet one-way delay: 31.657 ms  
Loss rate: 0.05%  
-- Flow 1:  
Average throughput: 25.11 Mbit/s  
95th percentile per-packet one-way delay: 31.503 ms  
Loss rate: 0.06%  
-- Flow 2:  
Average throughput: 12.08 Mbit/s  
95th percentile per-packet one-way delay: 31.977 ms  
Loss rate: 0.05%  
-- Flow 3:  
Average throughput: 12.80 Mbit/s  
95th percentile per-packet one-way delay: 31.683 ms  
Loss rate: 0.00%

Run 6: Report of TCP Vegas — Data Link

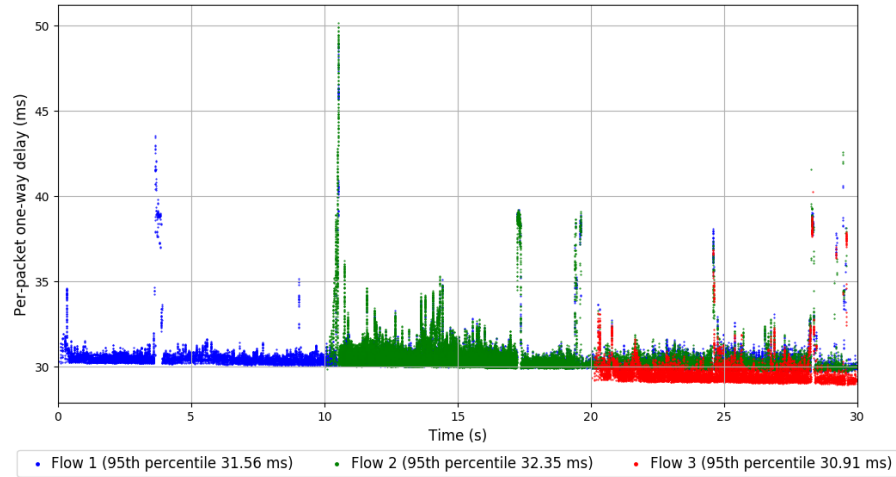
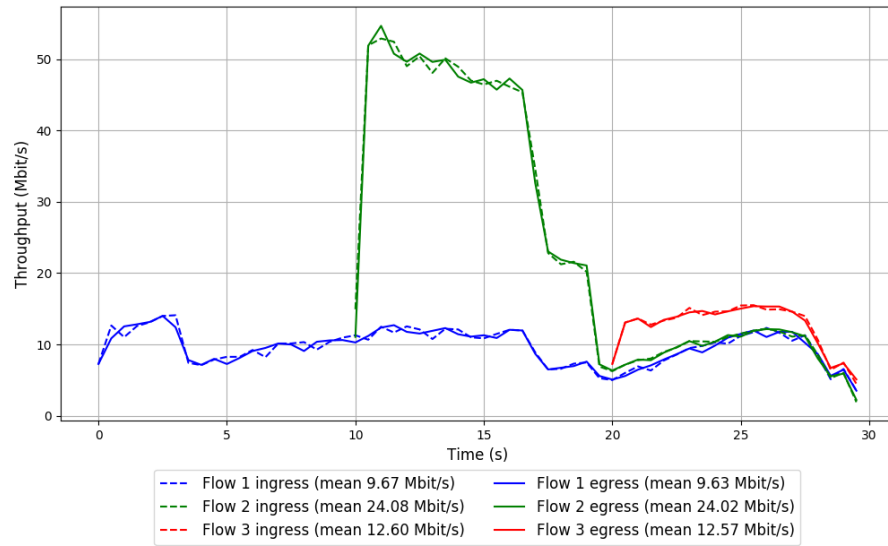


Run 7: Statistics of TCP Vegas

Start at: 2018-04-17 20:19:38  
End at: 2018-04-17 20:20:08  
Local clock offset: -0.26 ms  
Remote clock offset: -10.858 ms

# Below is generated by plot.py at 2018-04-17 22:18:55  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 29.78 Mbit/s  
95th percentile per-packet one-way delay: 31.920 ms  
Loss rate: 0.30%  
-- Flow 1:  
Average throughput: 9.63 Mbit/s  
95th percentile per-packet one-way delay: 31.562 ms  
Loss rate: 0.38%  
-- Flow 2:  
Average throughput: 24.02 Mbit/s  
95th percentile per-packet one-way delay: 32.354 ms  
Loss rate: 0.27%  
-- Flow 3:  
Average throughput: 12.57 Mbit/s  
95th percentile per-packet one-way delay: 30.905 ms  
Loss rate: 0.26%

# Run 7: Report of TCP Vegas — Data Link

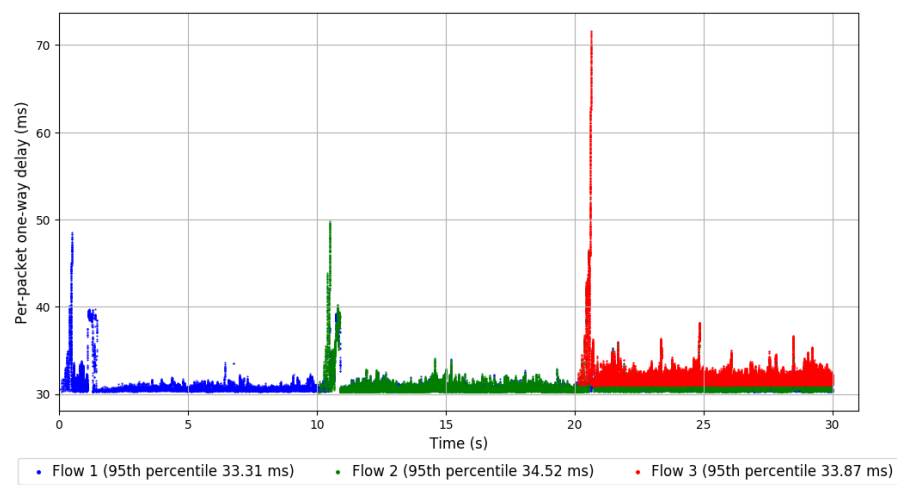
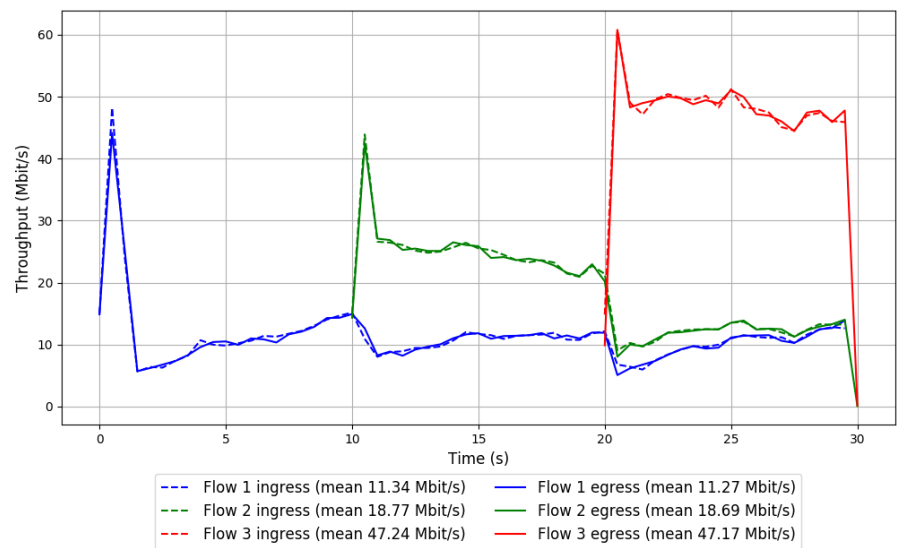


Run 8: Statistics of TCP Vegas

Start at: 2018-04-17 20:48:19  
End at: 2018-04-17 20:48:49  
Local clock offset: -0.394 ms  
Remote clock offset: -1.002 ms

```
# Below is generated by plot.py at 2018-04-17 22:18:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 39.38 Mbit/s
95th percentile per-packet one-way delay: 33.878 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 11.27 Mbit/s
95th percentile per-packet one-way delay: 33.308 ms
Loss rate: 0.59%
-- Flow 2:
Average throughput: 18.69 Mbit/s
95th percentile per-packet one-way delay: 34.517 ms
Loss rate: 0.43%
-- Flow 3:
Average throughput: 47.17 Mbit/s
95th percentile per-packet one-way delay: 33.866 ms
Loss rate: 0.15%
```

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-04-17 21:15:57

End at: 2018-04-17 21:16:27

Local clock offset: 0.2 ms

Remote clock offset: 5.565 ms

# Below is generated by plot.py at 2018-04-17 22:18:55

# Datalink statistics

-- Total of 3 flows:

Average throughput: 51.17 Mbit/s

95th percentile per-packet one-way delay: 46.568 ms

Loss rate: 1.02%

-- Flow 1:

Average throughput: 14.37 Mbit/s

95th percentile per-packet one-way delay: 39.999 ms

Loss rate: 0.18%

-- Flow 2:

Average throughput: 39.48 Mbit/s

95th percentile per-packet one-way delay: 47.214 ms

Loss rate: 1.23%

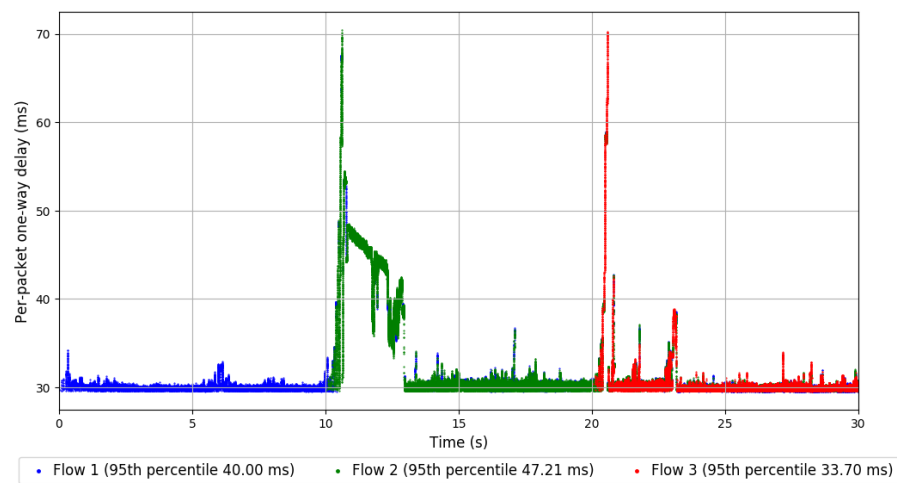
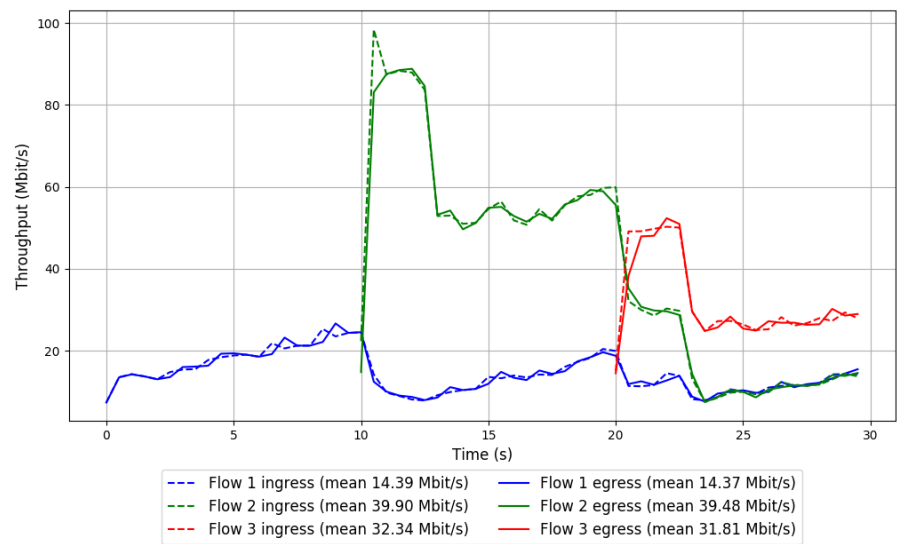
-- Flow 3:

Average throughput: 31.81 Mbit/s

95th percentile per-packet one-way delay: 33.701 ms

Loss rate: 1.63%

Run 9: Report of TCP Vegas — Data Link

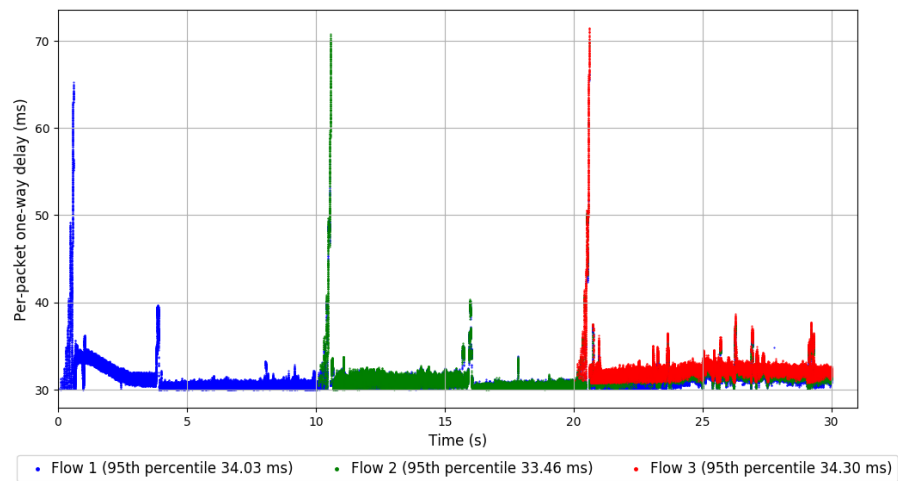
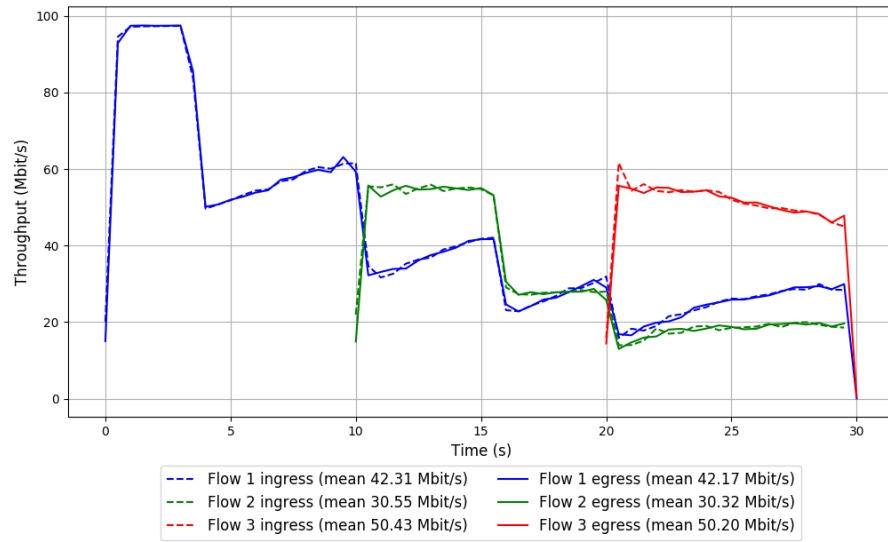


Run 10: Statistics of TCP Vegas

Start at: 2018-04-17 21:40:50  
End at: 2018-04-17 21:41:20  
Local clock offset: -0.291 ms  
Remote clock offset: -0.981 ms

# Below is generated by plot.py at 2018-04-17 22:18:55  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 79.03 Mbit/s  
95th percentile per-packet one-way delay: 34.001 ms  
Loss rate: 0.44%  
-- Flow 1:  
Average throughput: 42.17 Mbit/s  
95th percentile per-packet one-way delay: 34.034 ms  
Loss rate: 0.31%  
-- Flow 2:  
Average throughput: 30.32 Mbit/s  
95th percentile per-packet one-way delay: 33.461 ms  
Loss rate: 0.73%  
-- Flow 3:  
Average throughput: 50.20 Mbit/s  
95th percentile per-packet one-way delay: 34.304 ms  
Loss rate: 0.44%

# Run 10: Report of TCP Vegas — Data Link

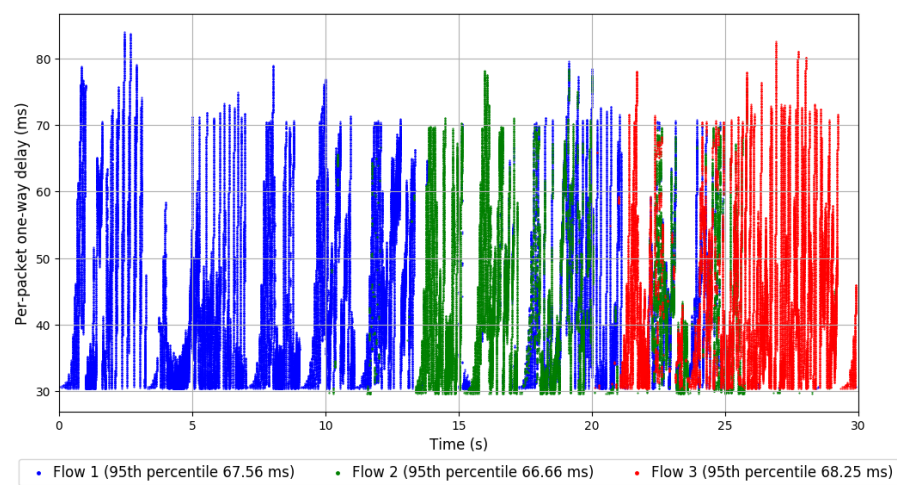
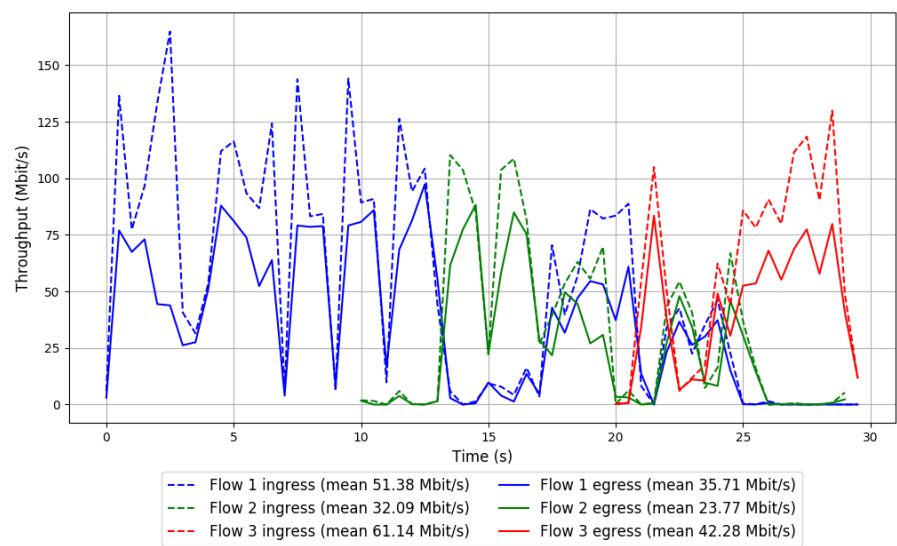


Run 1: Statistics of Verus

Start at: 2018-04-17 17:34:22  
End at: 2018-04-17 17:34:52  
Local clock offset: 1.915 ms  
Remote clock offset: -2.291 ms

# Below is generated by plot.py at 2018-04-17 22:18:55  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 64.78 Mbit/s  
95th percentile per-packet one-way delay: 67.449 ms  
Loss rate: 29.61%  
-- Flow 1:  
Average throughput: 35.71 Mbit/s  
95th percentile per-packet one-way delay: 67.558 ms  
Loss rate: 30.50%  
-- Flow 2:  
Average throughput: 23.77 Mbit/s  
95th percentile per-packet one-way delay: 66.660 ms  
Loss rate: 26.30%  
-- Flow 3:  
Average throughput: 42.28 Mbit/s  
95th percentile per-packet one-way delay: 68.248 ms  
Loss rate: 30.73%

Run 1: Report of Verus — Data Link

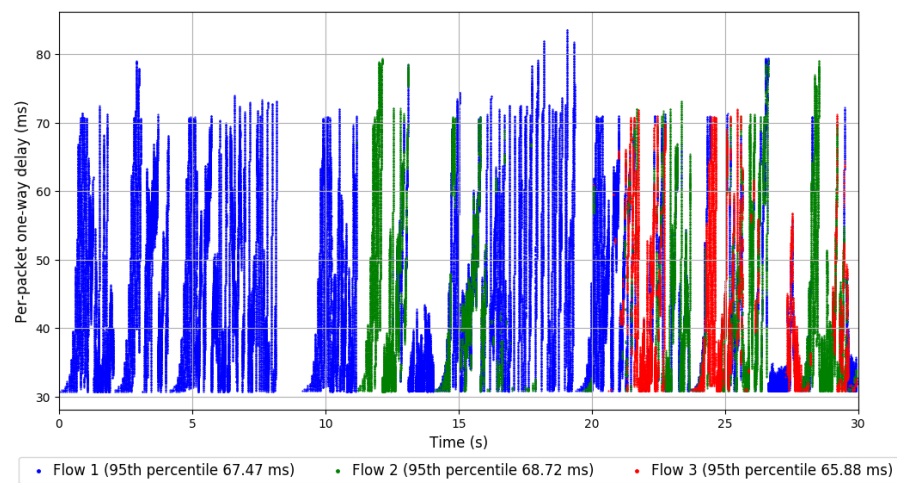
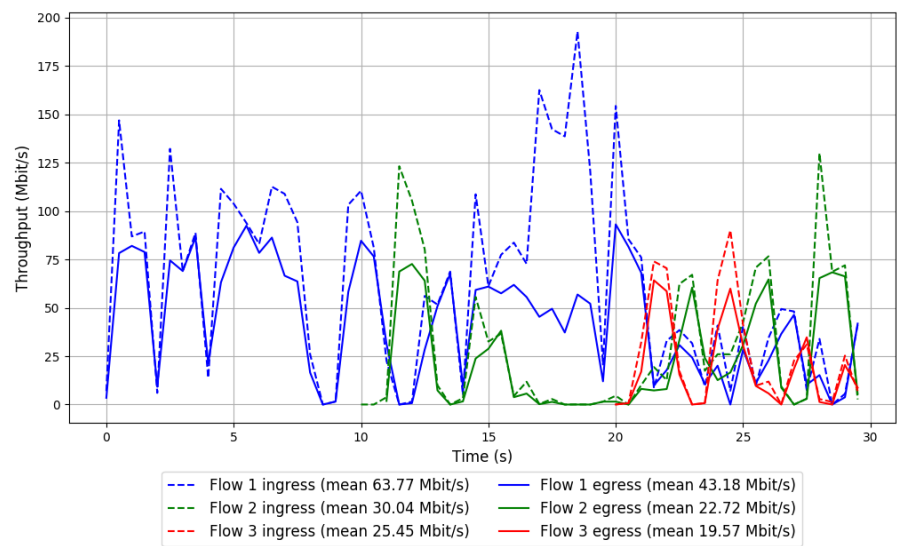


Run 2: Statistics of Verus

Start at: 2018-04-17 17:58:46  
End at: 2018-04-17 17:59:16  
Local clock offset: 3.014 ms  
Remote clock offset: -2.804 ms

# Below is generated by plot.py at 2018-04-17 22:18:55  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 63.95 Mbit/s  
95th percentile per-packet one-way delay: 67.618 ms  
Loss rate: 30.58%  
-- Flow 1:  
Average throughput: 43.18 Mbit/s  
95th percentile per-packet one-way delay: 67.472 ms  
Loss rate: 32.28%  
-- Flow 2:  
Average throughput: 22.72 Mbit/s  
95th percentile per-packet one-way delay: 68.719 ms  
Loss rate: 28.21%  
-- Flow 3:  
Average throughput: 19.57 Mbit/s  
95th percentile per-packet one-way delay: 65.884 ms  
Loss rate: 23.34%

Run 2: Report of Verus — Data Link

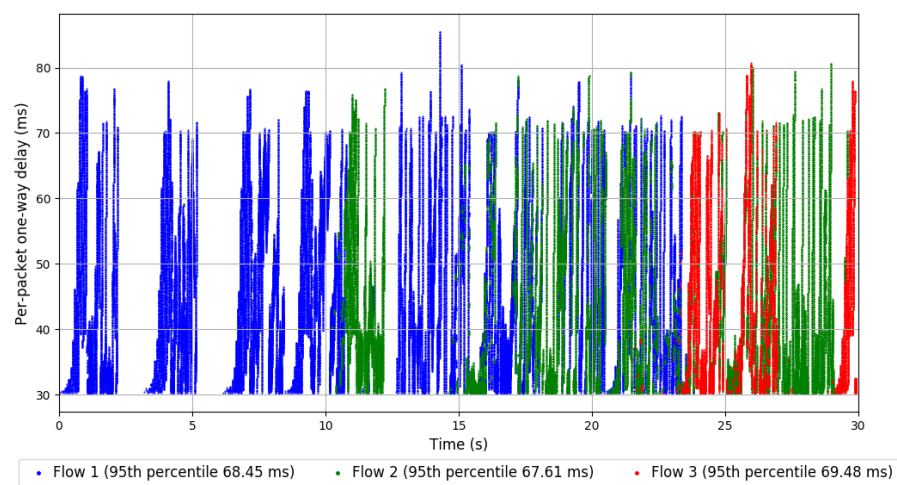
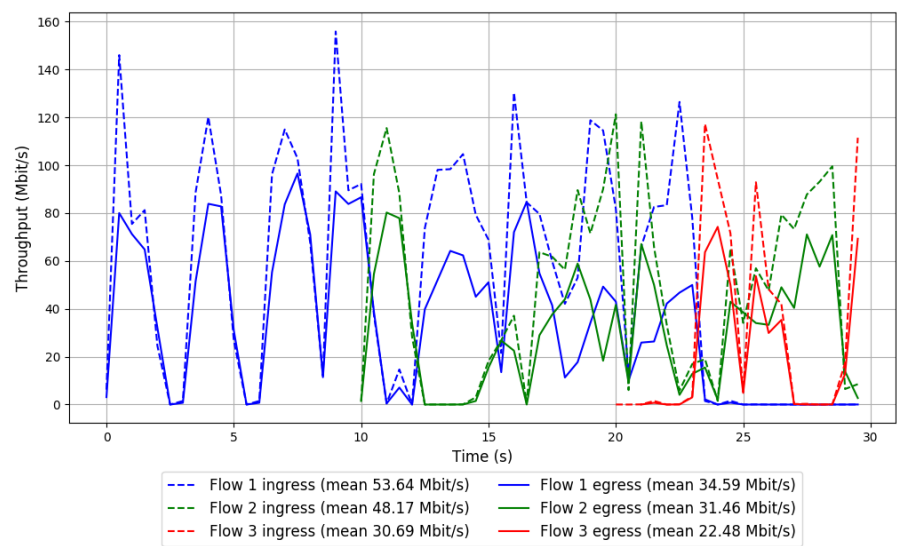


Run 3: Statistics of Verus

Start at: 2018-04-17 18:22:38  
End at: 2018-04-17 18:23:08  
Local clock offset: 6.257 ms  
Remote clock offset: 10.759 ms

```
# Below is generated by plot.py at 2018-04-17 22:18:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 61.75 Mbit/s
95th percentile per-packet one-way delay: 68.310 ms
Loss rate: 35.23%
-- Flow 1:
Average throughput: 34.59 Mbit/s
95th percentile per-packet one-way delay: 68.454 ms
Loss rate: 35.52%
-- Flow 2:
Average throughput: 31.46 Mbit/s
95th percentile per-packet one-way delay: 67.607 ms
Loss rate: 35.02%
-- Flow 3:
Average throughput: 22.48 Mbit/s
95th percentile per-packet one-way delay: 69.481 ms
Loss rate: 34.34%
```

Run 3: Report of Verus — Data Link

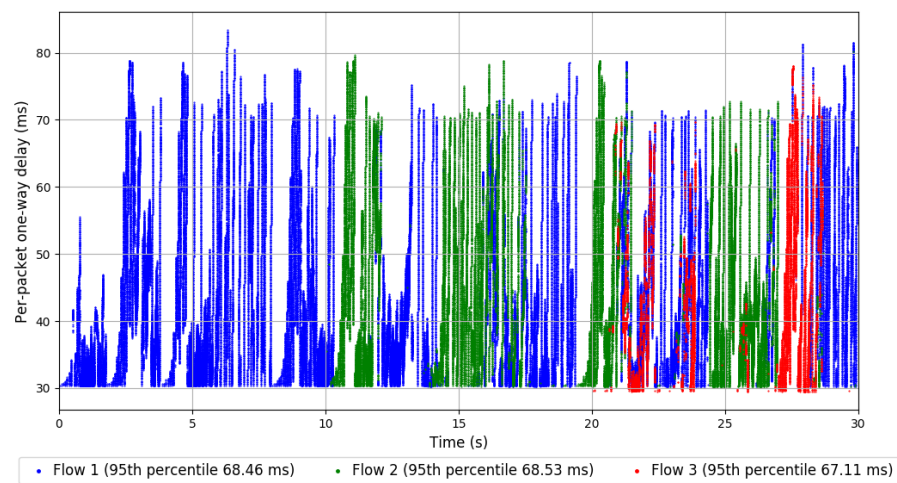
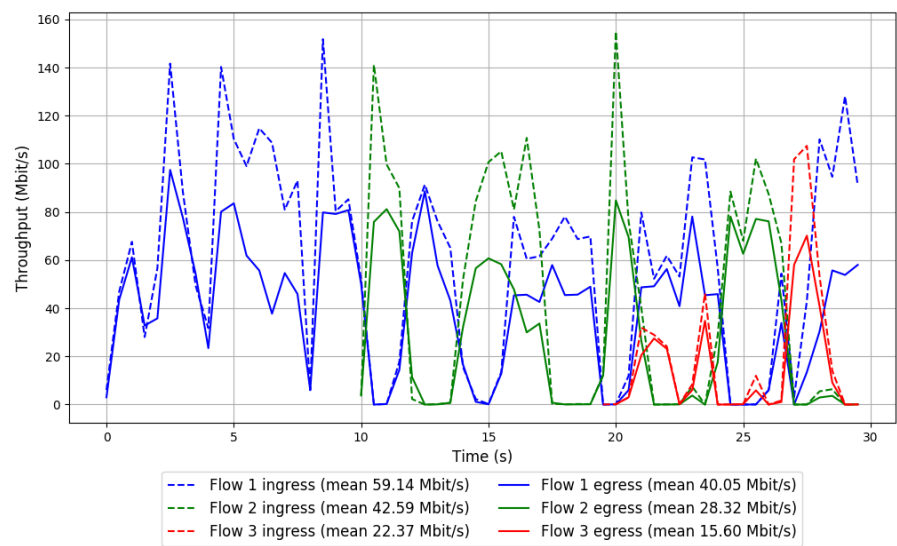


Run 4: Statistics of Verus

Start at: 2018-04-17 18:46:53  
End at: 2018-04-17 18:47:23  
Local clock offset: 0.563 ms  
Remote clock offset: 13.935 ms

# Below is generated by plot.py at 2018-04-17 22:18:55  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 63.86 Mbit/s  
95th percentile per-packet one-way delay: 68.385 ms  
Loss rate: 32.48%  
-- Flow 1:  
Average throughput: 40.05 Mbit/s  
95th percentile per-packet one-way delay: 68.459 ms  
Loss rate: 32.20%  
-- Flow 2:  
Average throughput: 28.32 Mbit/s  
95th percentile per-packet one-way delay: 68.535 ms  
Loss rate: 33.53%  
-- Flow 3:  
Average throughput: 15.60 Mbit/s  
95th percentile per-packet one-way delay: 67.110 ms  
Loss rate: 30.73%

Run 4: Report of Verus — Data Link

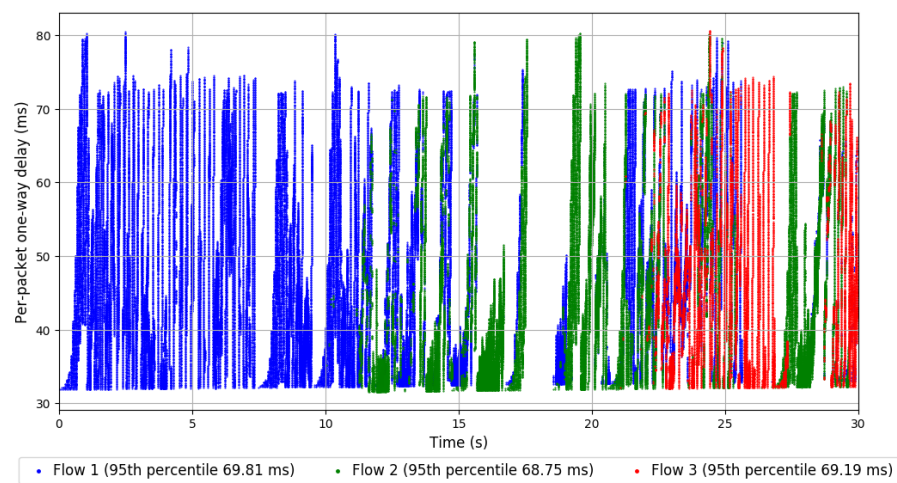
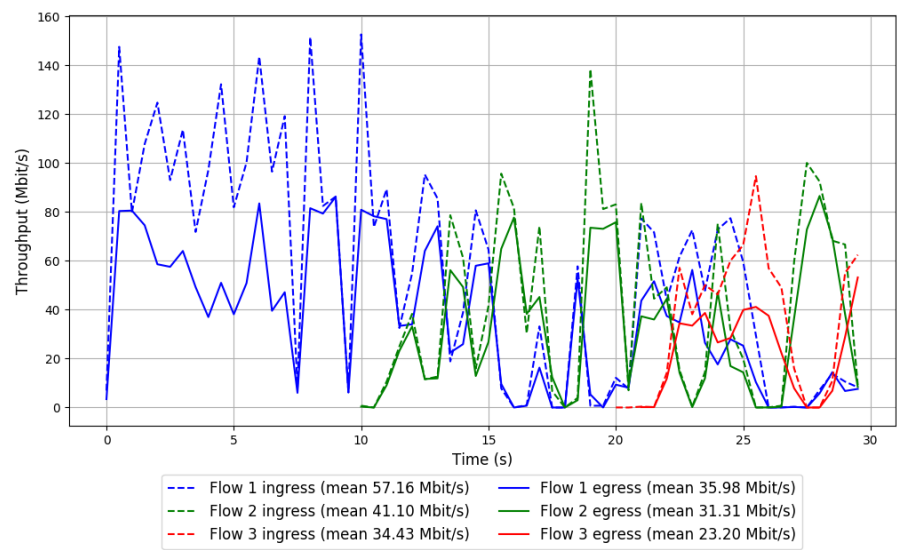


Run 5: Statistics of Verus

Start at: 2018-04-17 19:11:04  
End at: 2018-04-17 19:11:34  
Local clock offset: -0.094 ms  
Remote clock offset: 16.153 ms

# Below is generated by plot.py at 2018-04-17 22:18:55  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 63.61 Mbit/s  
95th percentile per-packet one-way delay: 69.418 ms  
Loss rate: 33.49%  
-- Flow 1:  
Average throughput: 35.98 Mbit/s  
95th percentile per-packet one-way delay: 69.813 ms  
Loss rate: 36.99%  
-- Flow 2:  
Average throughput: 31.31 Mbit/s  
95th percentile per-packet one-way delay: 68.752 ms  
Loss rate: 23.75%  
-- Flow 3:  
Average throughput: 23.20 Mbit/s  
95th percentile per-packet one-way delay: 69.186 ms  
Loss rate: 39.31%

Run 5: Report of Verus — Data Link

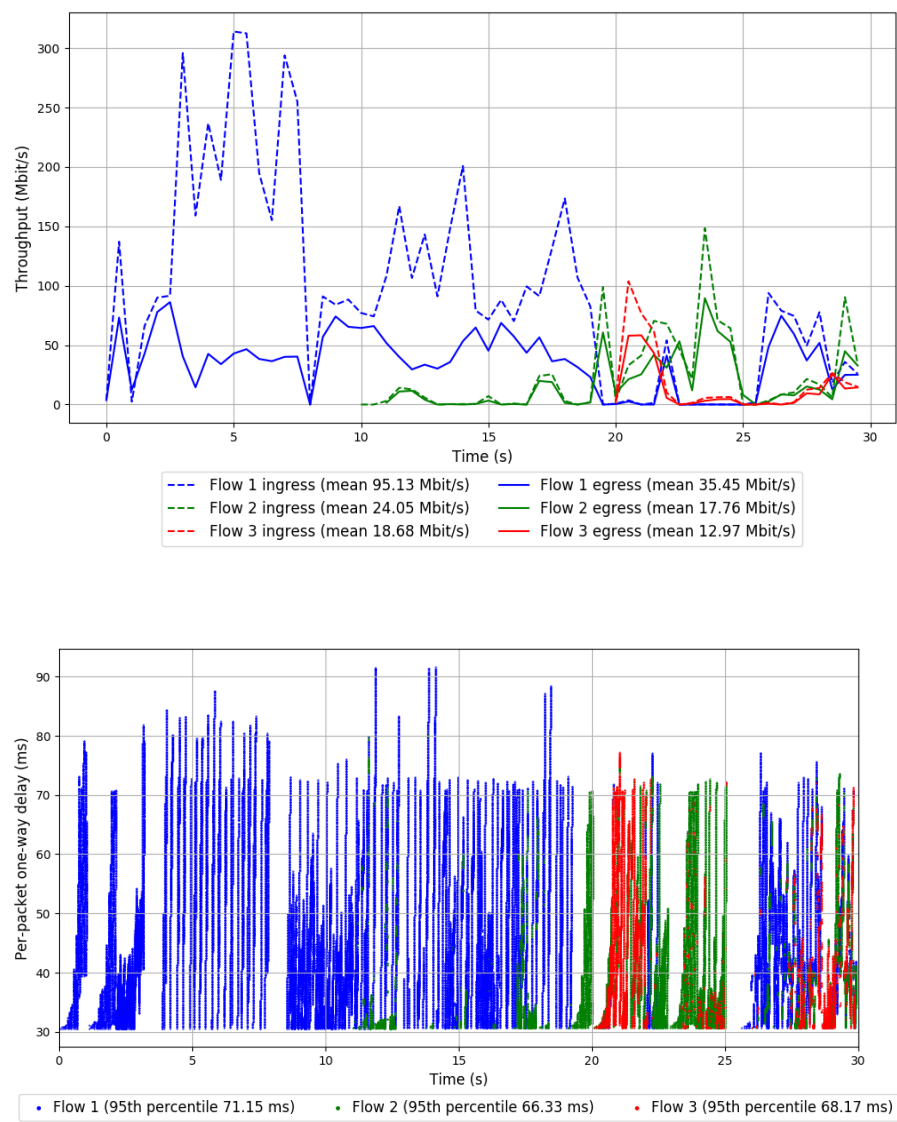


Run 6: Statistics of Verus

Start at: 2018-04-17 19:35:54  
End at: 2018-04-17 19:36:24  
Local clock offset: 0.876 ms  
Remote clock offset: -7.797 ms

# Below is generated by plot.py at 2018-04-17 22:19:19  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 50.92 Mbit/s  
95th percentile per-packet one-way delay: 69.968 ms  
Loss rate: 56.57%  
-- Flow 1:  
Average throughput: 35.45 Mbit/s  
95th percentile per-packet one-way delay: 71.153 ms  
Loss rate: 62.73%  
-- Flow 2:  
Average throughput: 17.76 Mbit/s  
95th percentile per-packet one-way delay: 66.335 ms  
Loss rate: 29.85%  
-- Flow 3:  
Average throughput: 12.97 Mbit/s  
95th percentile per-packet one-way delay: 68.175 ms  
Loss rate: 30.58%

Run 6: Report of Verus — Data Link

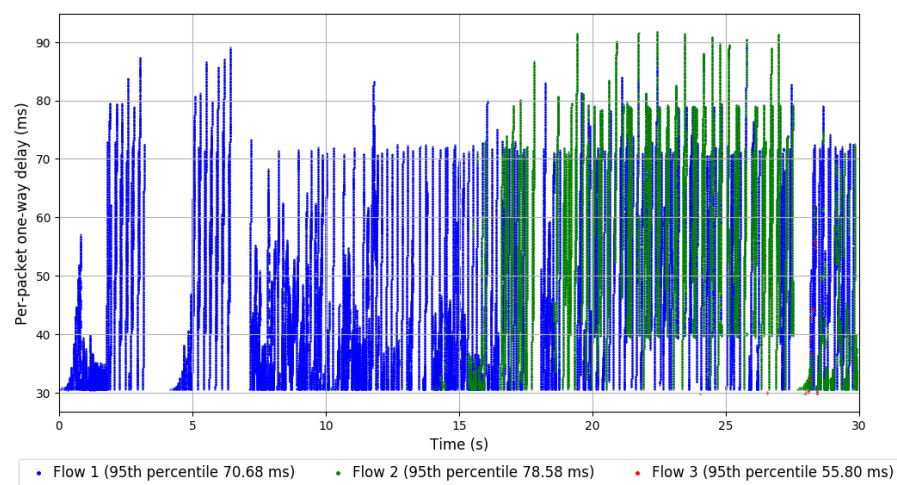
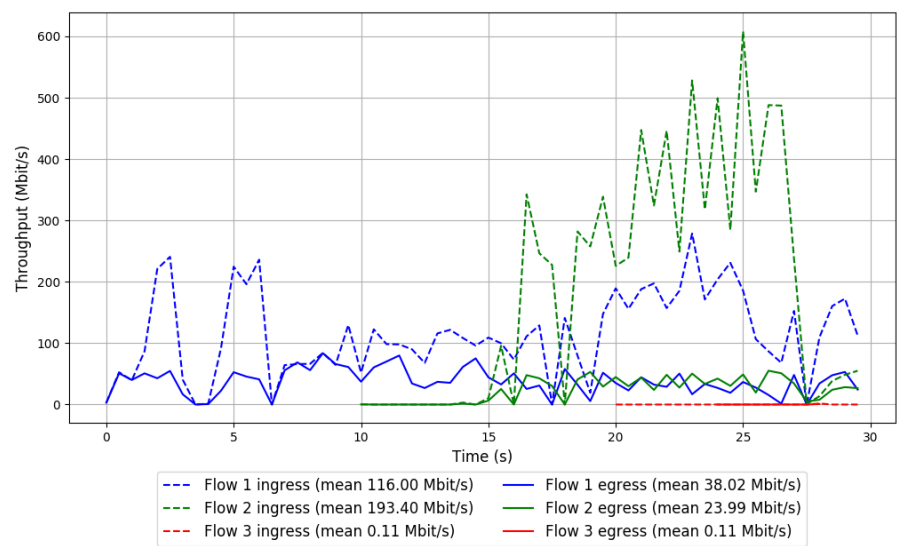


Run 7: Statistics of Verus

Start at: 2018-04-17 20:04:17  
End at: 2018-04-17 20:04:47  
Local clock offset: -0.185 ms  
Remote clock offset: -9.599 ms

# Below is generated by plot.py at 2018-04-17 22:19:57  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 53.82 Mbit/s  
95th percentile per-packet one-way delay: 74.393 ms  
Loss rate: 77.96%  
-- Flow 1:  
Average throughput: 38.02 Mbit/s  
95th percentile per-packet one-way delay: 70.682 ms  
Loss rate: 67.22%  
-- Flow 2:  
Average throughput: 23.99 Mbit/s  
95th percentile per-packet one-way delay: 78.585 ms  
Loss rate: 87.60%  
-- Flow 3:  
Average throughput: 0.11 Mbit/s  
95th percentile per-packet one-way delay: 55.804 ms  
Loss rate: 56.38%

Run 7: Report of Verus — Data Link

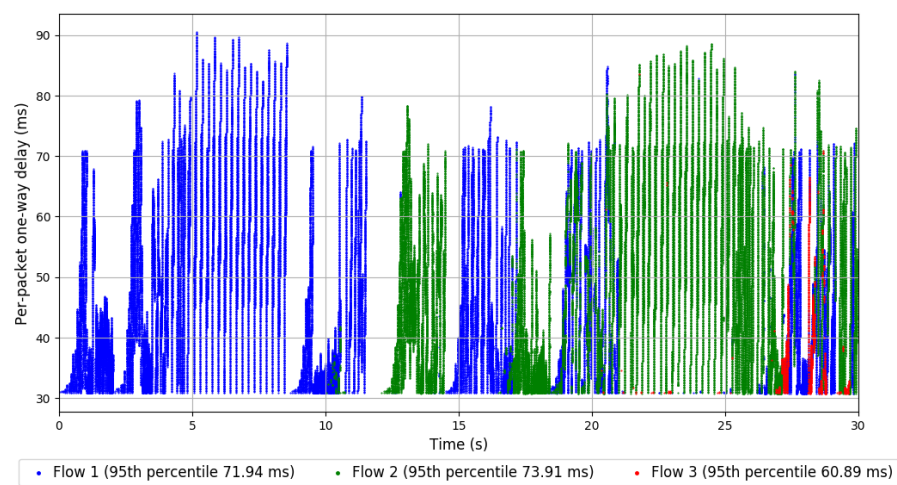
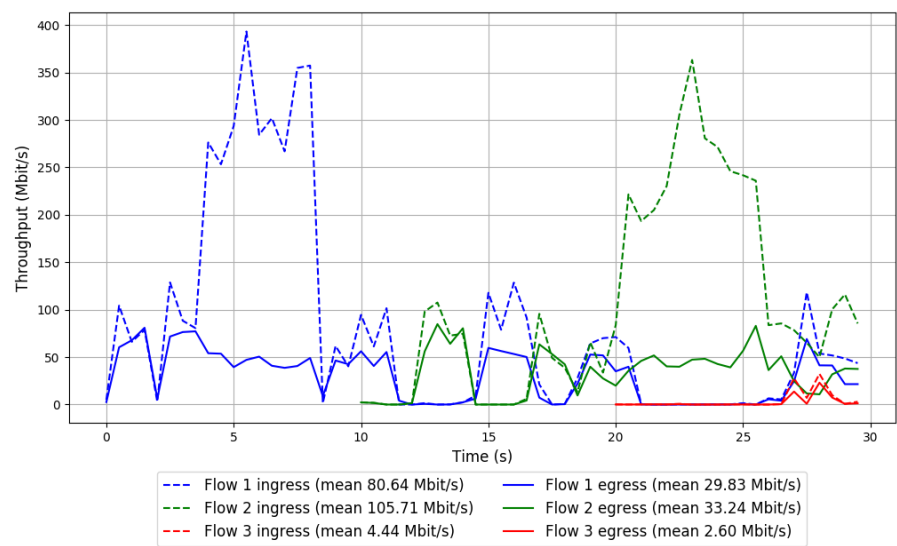


Run 8: Statistics of Verus

Start at: 2018-04-17 20:33:11  
End at: 2018-04-17 20:33:41  
Local clock offset: -0.288 ms  
Remote clock offset: -2.569 ms

# Below is generated by plot.py at 2018-04-17 22:19:57  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 52.65 Mbit/s  
95th percentile per-packet one-way delay: 72.581 ms  
Loss rate: 65.36%  
-- Flow 1:  
Average throughput: 29.83 Mbit/s  
95th percentile per-packet one-way delay: 71.940 ms  
Loss rate: 62.99%  
-- Flow 2:  
Average throughput: 33.24 Mbit/s  
95th percentile per-packet one-way delay: 73.906 ms  
Loss rate: 68.52%  
-- Flow 3:  
Average throughput: 2.60 Mbit/s  
95th percentile per-packet one-way delay: 60.894 ms  
Loss rate: 41.94%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-04-17 21:02:03

End at: 2018-04-17 21:02:33

Local clock offset: -0.016 ms

Remote clock offset: 2.778 ms

# Below is generated by plot.py at 2018-04-17 22:19:57

# Datalink statistics

-- Total of 3 flows:

Average throughput: 64.33 Mbit/s

95th percentile per-packet one-way delay: 67.375 ms

Loss rate: 35.79%

-- Flow 1:

Average throughput: 39.50 Mbit/s

95th percentile per-packet one-way delay: 67.460 ms

Loss rate: 37.60%

-- Flow 2:

Average throughput: 25.49 Mbit/s

95th percentile per-packet one-way delay: 67.302 ms

Loss rate: 28.26%

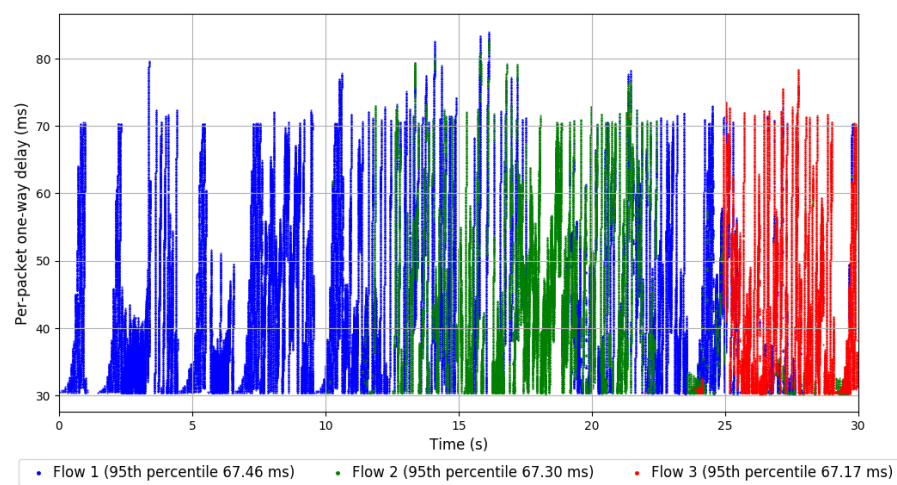
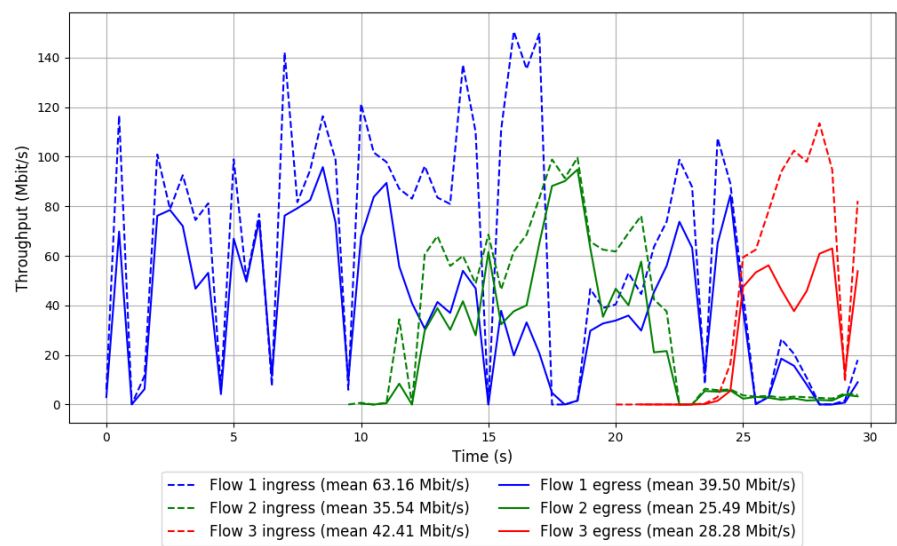
-- Flow 3:

Average throughput: 28.28 Mbit/s

95th percentile per-packet one-way delay: 67.166 ms

Loss rate: 40.51%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-04-17 21:29:11

End at: 2018-04-17 21:29:41

Local clock offset: -0.014 ms

Remote clock offset: 4.914 ms

# Below is generated by plot.py at 2018-04-17 22:19:57

# Datalink statistics

-- Total of 3 flows:

Average throughput: 64.39 Mbit/s

95th percentile per-packet one-way delay: 67.733 ms

Loss rate: 41.86%

-- Flow 1:

Average throughput: 41.17 Mbit/s

95th percentile per-packet one-way delay: 67.686 ms

Loss rate: 39.95%

-- Flow 2:

Average throughput: 28.98 Mbit/s

95th percentile per-packet one-way delay: 67.968 ms

Loss rate: 48.06%

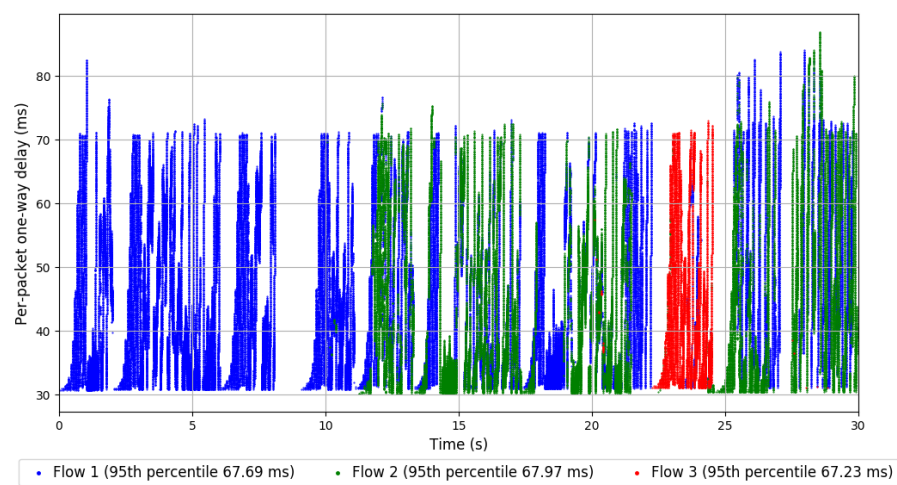
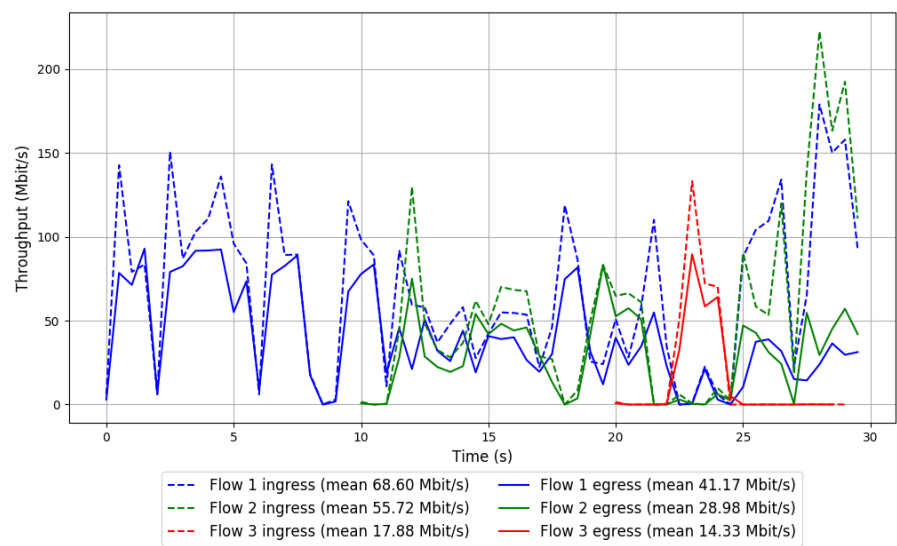
-- Flow 3:

Average throughput: 14.33 Mbit/s

95th percentile per-packet one-way delay: 67.235 ms

Loss rate: 23.70%

Run 10: Report of Verus — Data Link

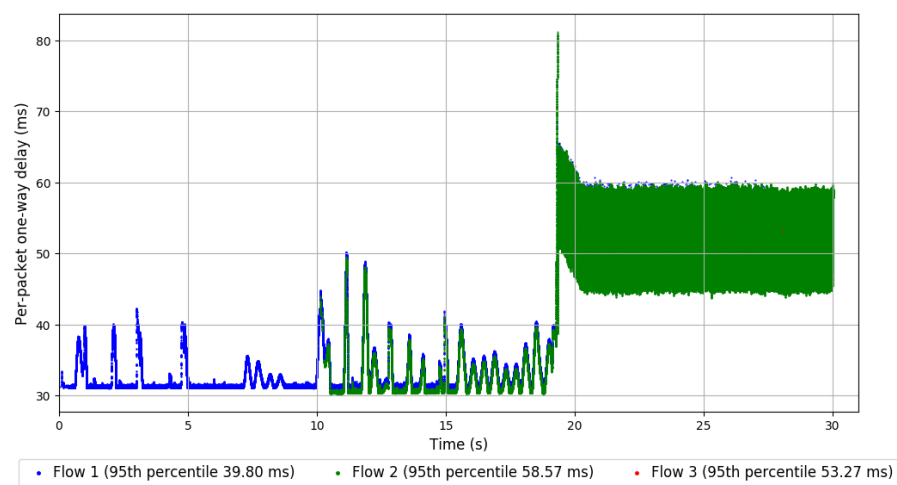
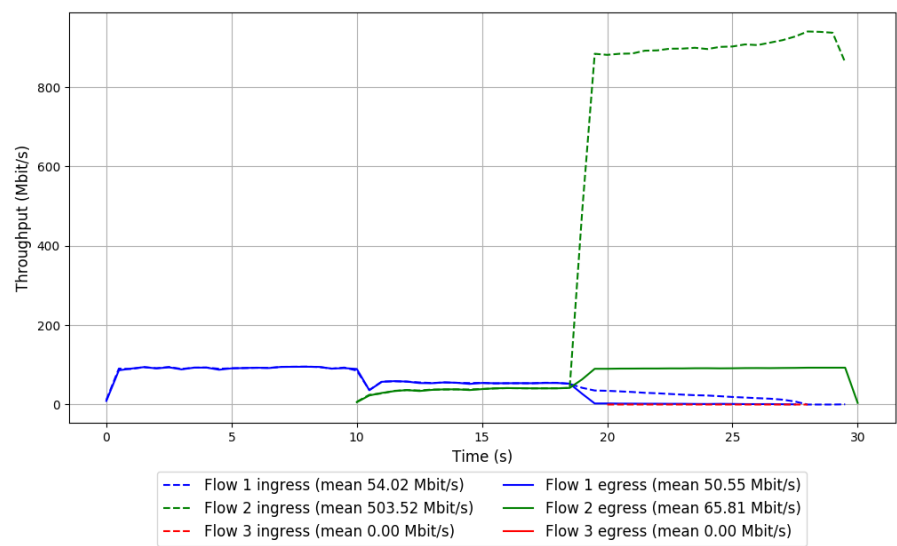


Run 1: Statistics of Copa

Start at: 2018-04-17 17:32:44  
End at: 2018-04-17 17:33:14  
Local clock offset: 1.75 ms  
Remote clock offset: -1.775 ms

# Below is generated by plot.py at 2018-04-17 22:24:04  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 90.77 Mbit/s  
95th percentile per-packet one-way delay: 57.966 ms  
Loss rate: 76.64%  
-- Flow 1:  
Average throughput: 50.55 Mbit/s  
95th percentile per-packet one-way delay: 39.799 ms  
Loss rate: 12.41%  
-- Flow 2:  
Average throughput: 65.81 Mbit/s  
95th percentile per-packet one-way delay: 58.570 ms  
Loss rate: 86.92%  
-- Flow 3:  
Average throughput: 0.00 Mbit/s  
95th percentile per-packet one-way delay: 53.266 ms  
Loss rate: 80.00%

Run 1: Report of Copa — Data Link

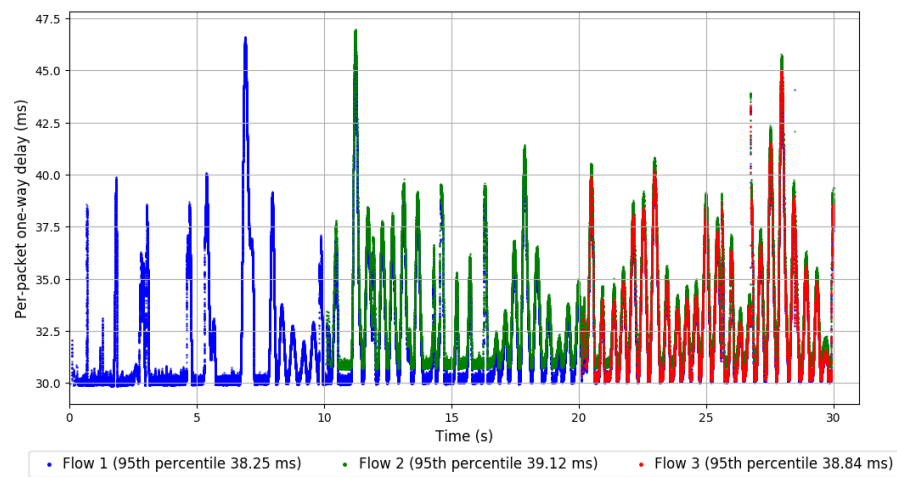
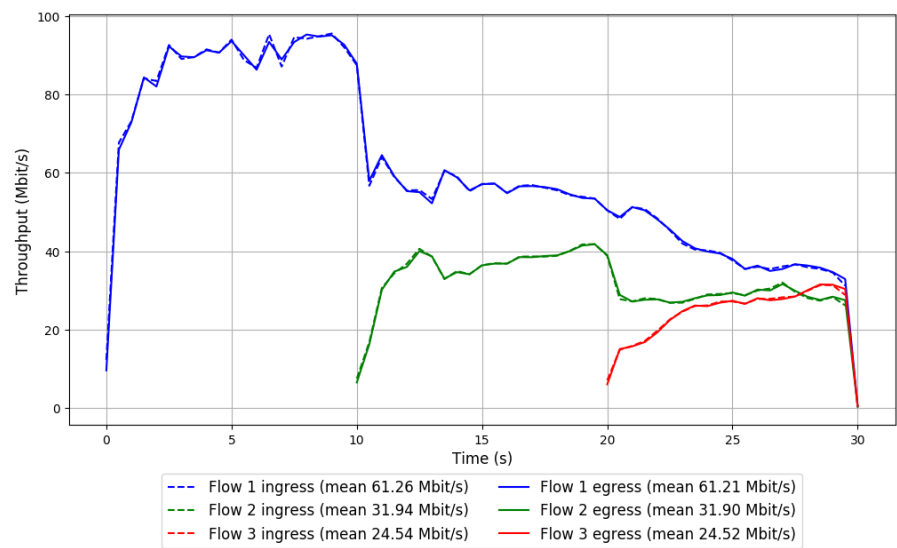


Run 2: Statistics of Copa

Start at: 2018-04-17 17:57:12  
End at: 2018-04-17 17:57:42  
Local clock offset: 2.641 ms  
Remote clock offset: -2.755 ms

# Below is generated by plot.py at 2018-04-17 22:24:04  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 90.60 Mbit/s  
95th percentile per-packet one-way delay: 38.554 ms  
Loss rate: 0.06%  
-- Flow 1:  
Average throughput: 61.21 Mbit/s  
95th percentile per-packet one-way delay: 38.248 ms  
Loss rate: 0.06%  
-- Flow 2:  
Average throughput: 31.90 Mbit/s  
95th percentile per-packet one-way delay: 39.124 ms  
Loss rate: 0.09%  
-- Flow 3:  
Average throughput: 24.52 Mbit/s  
95th percentile per-packet one-way delay: 38.839 ms  
Loss rate: 0.05%

Run 2: Report of Copa — Data Link

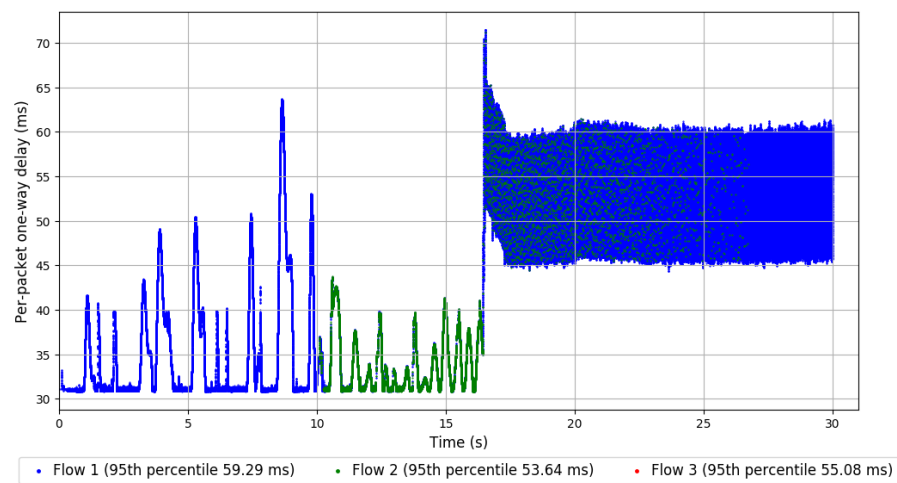
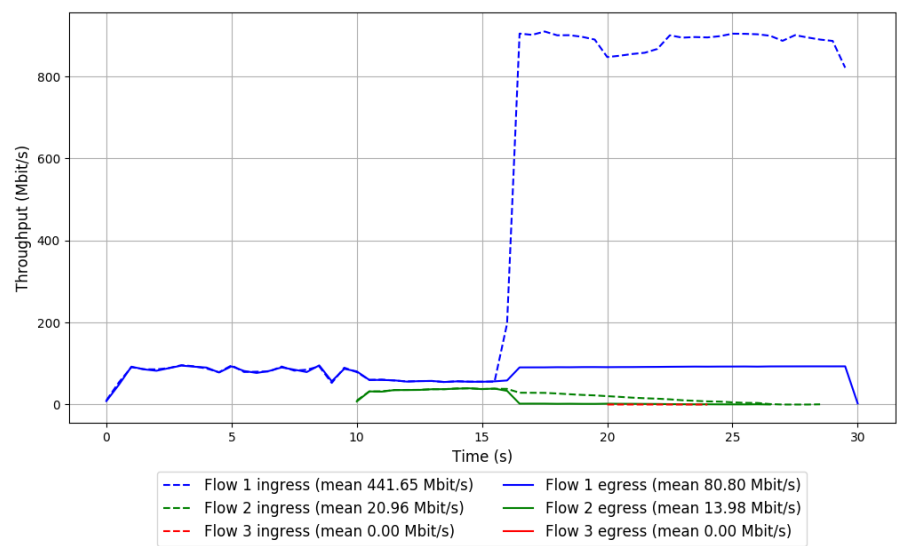


Run 3: Statistics of Copa

Start at: 2018-04-17 18:20:54  
End at: 2018-04-17 18:21:24  
Local clock offset: 6.124 ms  
Remote clock offset: 10.221 ms

# Below is generated by plot.py at 2018-04-17 22:24:40  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 88.59 Mbit/s  
95th percentile per-packet one-way delay: 59.217 ms  
Loss rate: 80.50%  
-- Flow 1:  
Average throughput: 80.80 Mbit/s  
95th percentile per-packet one-way delay: 59.288 ms  
Loss rate: 81.69%  
-- Flow 2:  
Average throughput: 13.98 Mbit/s  
95th percentile per-packet one-way delay: 53.640 ms  
Loss rate: 40.15%  
-- Flow 3:  
Average throughput: 0.00 Mbit/s  
95th percentile per-packet one-way delay: 55.083 ms  
Loss rate: 66.67%

Run 3: Report of Copa — Data Link

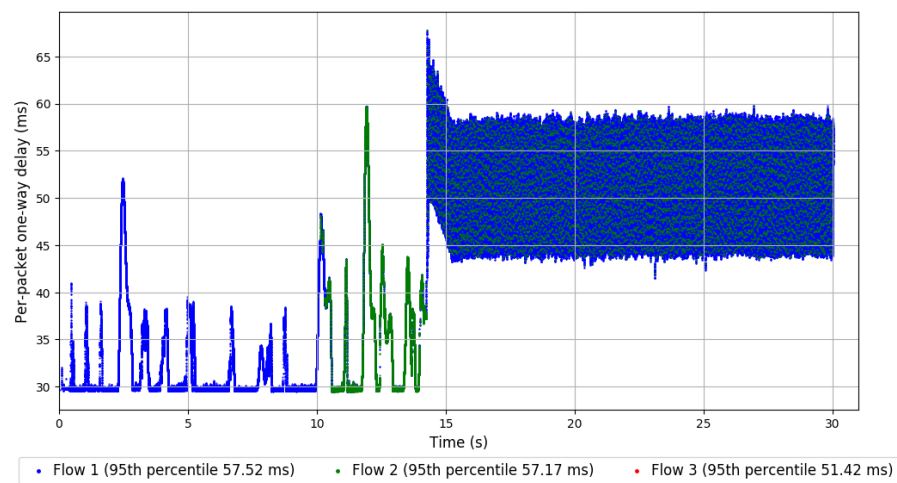
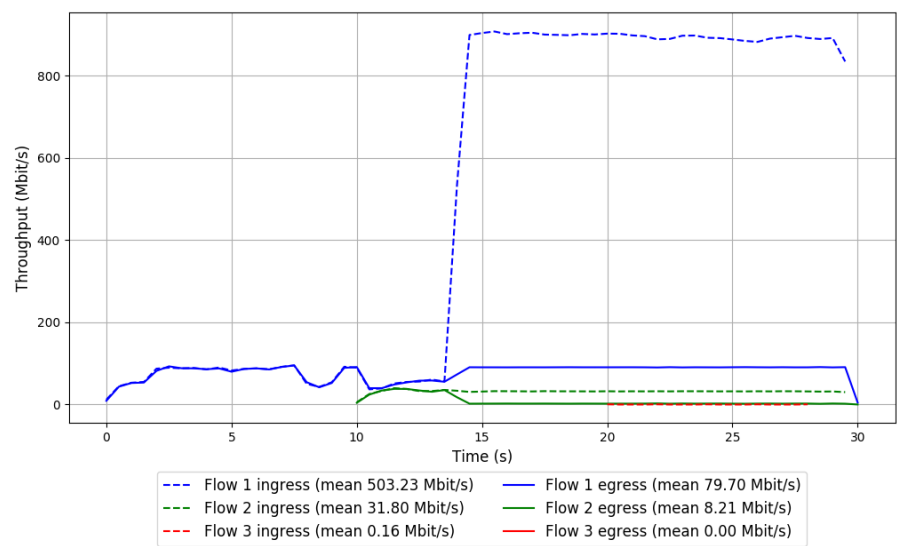


Run 4: Statistics of Copa

Start at: 2018-04-17 18:45:16  
End at: 2018-04-17 18:45:46  
Local clock offset: 0.764 ms  
Remote clock offset: 13.611 ms

```
# Below is generated by plot.py at 2018-04-17 22:25:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.16 Mbit/s
95th percentile per-packet one-way delay: 57.503 ms
Loss rate: 83.75%
-- Flow 1:
Average throughput: 79.70 Mbit/s
95th percentile per-packet one-way delay: 57.515 ms
Loss rate: 84.15%
-- Flow 2:
Average throughput: 8.21 Mbit/s
95th percentile per-packet one-way delay: 57.167 ms
Loss rate: 74.14%
-- Flow 3:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 51.421 ms
Loss rate: 99.92%
```

Run 4: Report of Copa — Data Link

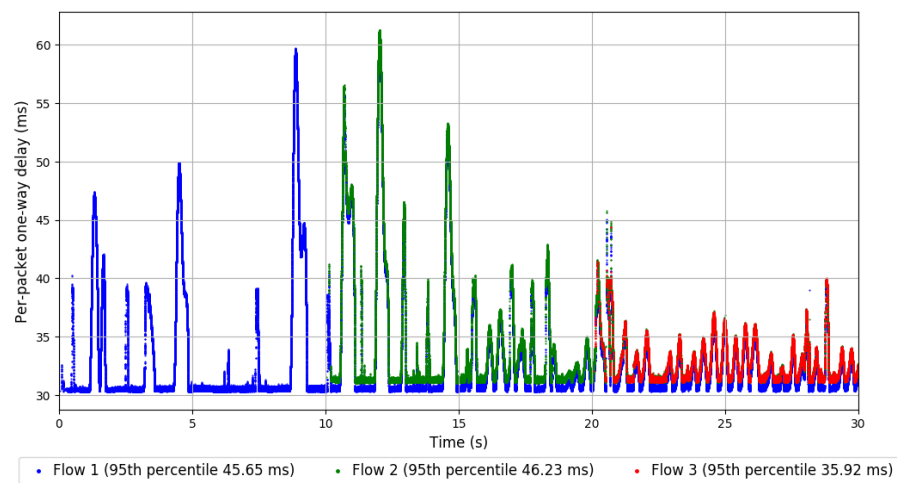
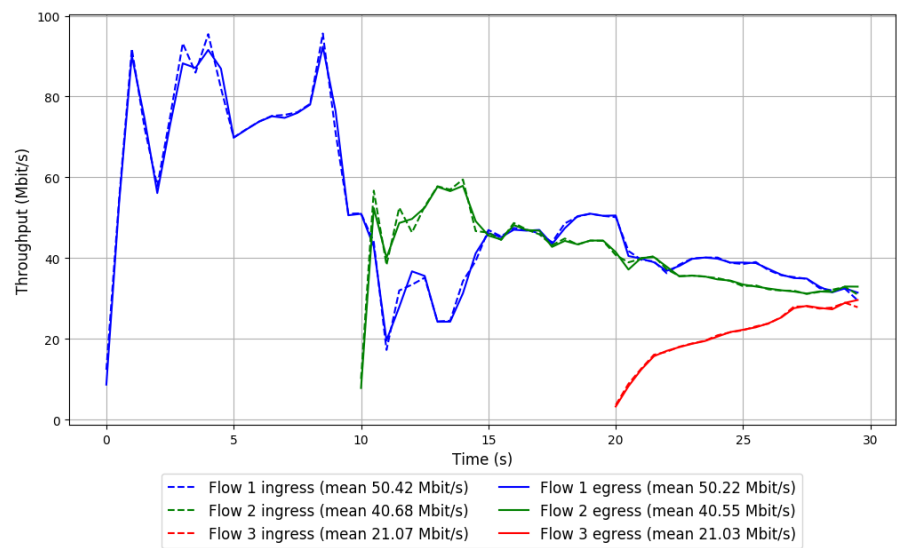


Run 5: Statistics of Copa

Start at: 2018-04-17 19:09:29  
End at: 2018-04-17 19:09:59  
Local clock offset: -0.406 ms  
Remote clock offset: 16.885 ms

```
# Below is generated by plot.py at 2018-04-17 22:25:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 84.21 Mbit/s
95th percentile per-packet one-way delay: 45.443 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 50.22 Mbit/s
95th percentile per-packet one-way delay: 45.651 ms
Loss rate: 0.39%
-- Flow 2:
Average throughput: 40.55 Mbit/s
95th percentile per-packet one-way delay: 46.232 ms
Loss rate: 0.32%
-- Flow 3:
Average throughput: 21.03 Mbit/s
95th percentile per-packet one-way delay: 35.916 ms
Loss rate: 0.17%
```

Run 5: Report of Copa — Data Link

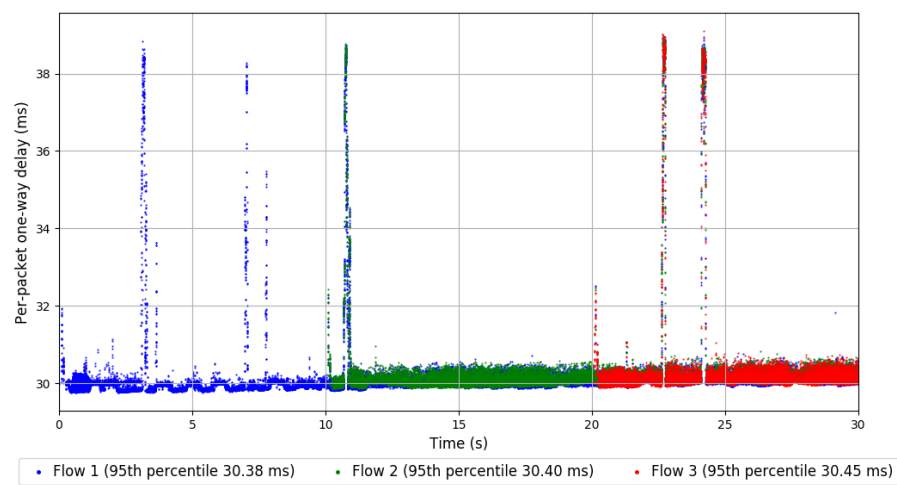
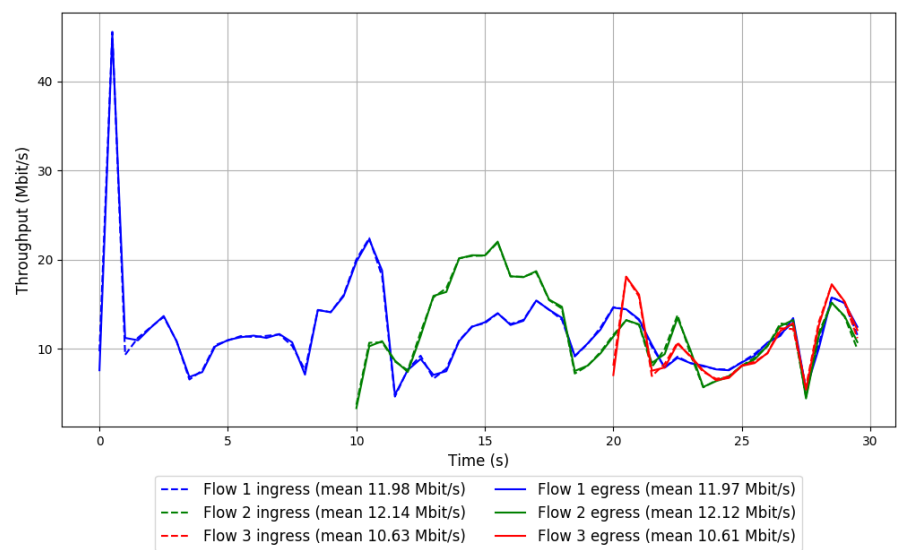


Run 6: Statistics of Copa

Start at: 2018-04-17 19:34:19  
End at: 2018-04-17 19:34:49  
Local clock offset: 0.901 ms  
Remote clock offset: -7.168 ms

# Below is generated by plot.py at 2018-04-17 22:25:57  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 23.57 Mbit/s  
95th percentile per-packet one-way delay: 30.403 ms  
Loss rate: 0.10%  
-- Flow 1:  
Average throughput: 11.97 Mbit/s  
95th percentile per-packet one-way delay: 30.376 ms  
Loss rate: 0.07%  
-- Flow 2:  
Average throughput: 12.12 Mbit/s  
95th percentile per-packet one-way delay: 30.400 ms  
Loss rate: 0.10%  
-- Flow 3:  
Average throughput: 10.61 Mbit/s  
95th percentile per-packet one-way delay: 30.448 ms  
Loss rate: 0.17%

Run 6: Report of Copa — Data Link

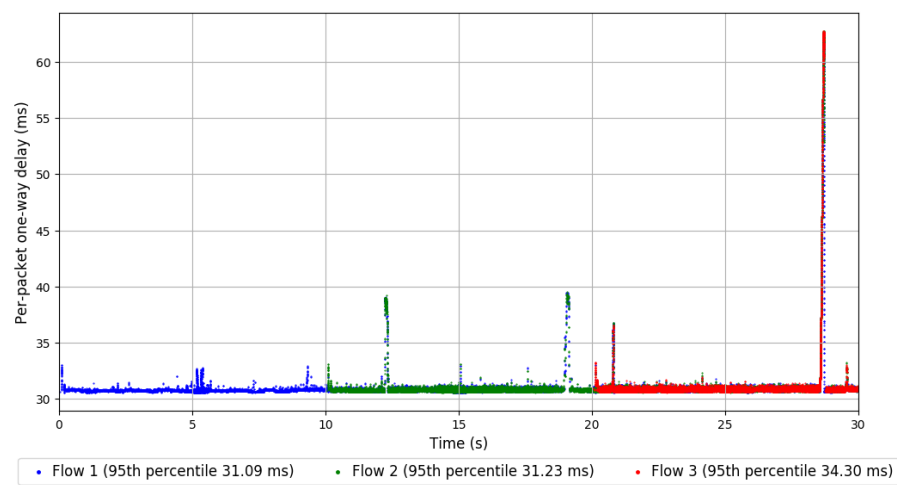
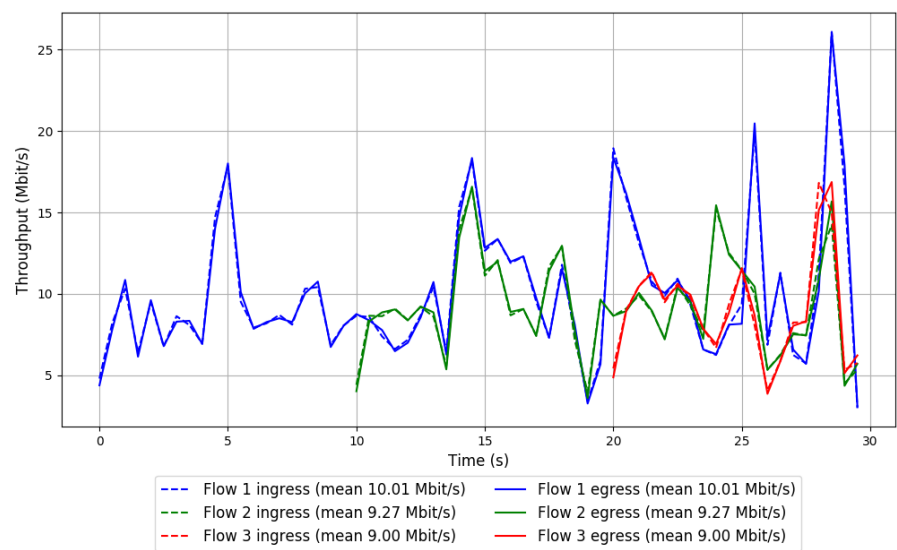


Run 7: Statistics of Copa

Start at: 2018-04-17 20:02:47  
End at: 2018-04-17 20:03:17  
Local clock offset: -0.173 ms  
Remote clock offset: -9.392 ms

# Below is generated by plot.py at 2018-04-17 22:25:57  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 19.17 Mbit/s  
95th percentile per-packet one-way delay: 31.188 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 10.01 Mbit/s  
95th percentile per-packet one-way delay: 31.091 ms  
Loss rate: 0.02%  
-- Flow 2:  
Average throughput: 9.27 Mbit/s  
95th percentile per-packet one-way delay: 31.228 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 9.00 Mbit/s  
95th percentile per-packet one-way delay: 34.295 ms  
Loss rate: 0.00%

Run 7: Report of Copa — Data Link

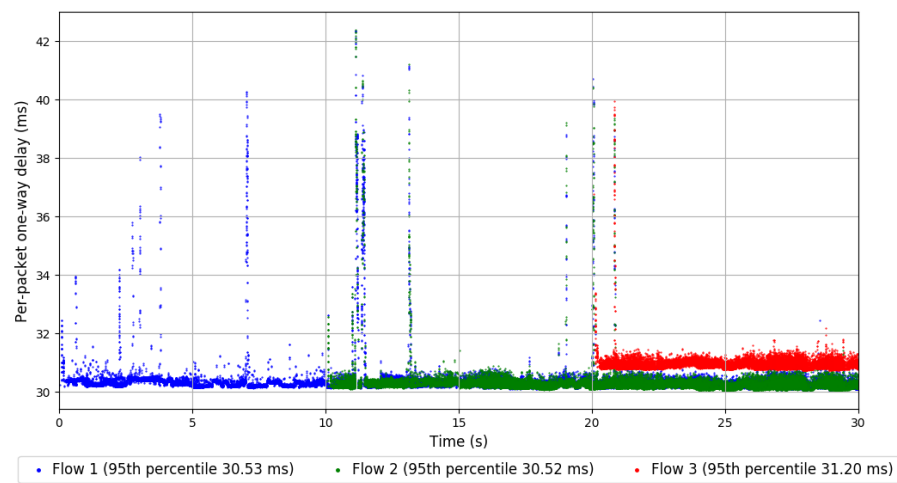
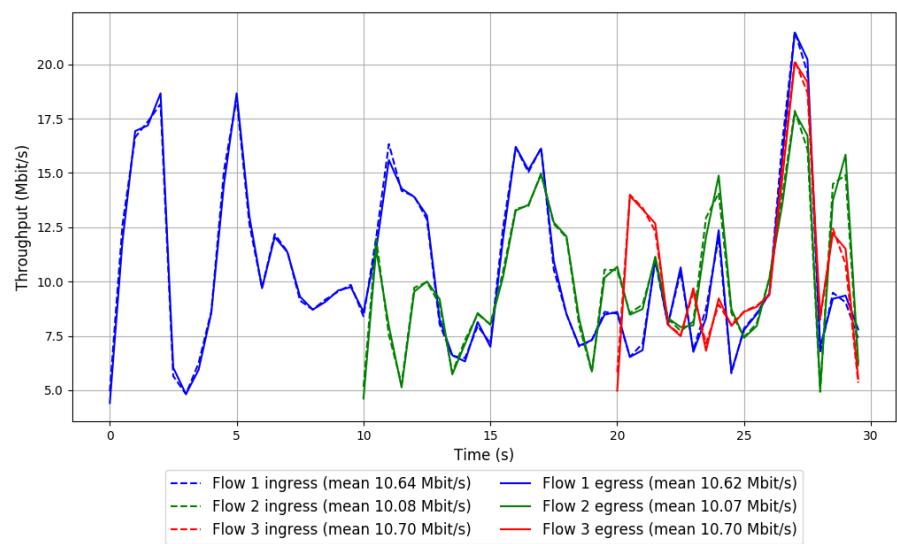


Run 8: Statistics of Copa

Start at: 2018-04-17 20:31:37  
End at: 2018-04-17 20:32:07  
Local clock offset: -0.233 ms  
Remote clock offset: -2.894 ms

# Below is generated by plot.py at 2018-04-17 22:25:57  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 20.87 Mbit/s  
95th percentile per-packet one-way delay: 31.047 ms  
Loss rate: 0.15%  
-- Flow 1:  
Average throughput: 10.62 Mbit/s  
95th percentile per-packet one-way delay: 30.533 ms  
Loss rate: 0.19%  
-- Flow 2:  
Average throughput: 10.07 Mbit/s  
95th percentile per-packet one-way delay: 30.518 ms  
Loss rate: 0.14%  
-- Flow 3:  
Average throughput: 10.70 Mbit/s  
95th percentile per-packet one-way delay: 31.195 ms  
Loss rate: 0.04%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-04-17 21:00:25

End at: 2018-04-17 21:00:55

Local clock offset: 0.073 ms

Remote clock offset: 2.313 ms

# Below is generated by plot.py at 2018-04-17 22:25:57

# Datalink statistics

-- Total of 3 flows:

Average throughput: 28.08 Mbit/s

95th percentile per-packet one-way delay: 38.654 ms

Loss rate: 0.57%

-- Flow 1:

Average throughput: 14.45 Mbit/s

95th percentile per-packet one-way delay: 38.063 ms

Loss rate: 0.59%

-- Flow 2:

Average throughput: 15.03 Mbit/s

95th percentile per-packet one-way delay: 47.295 ms

Loss rate: 0.73%

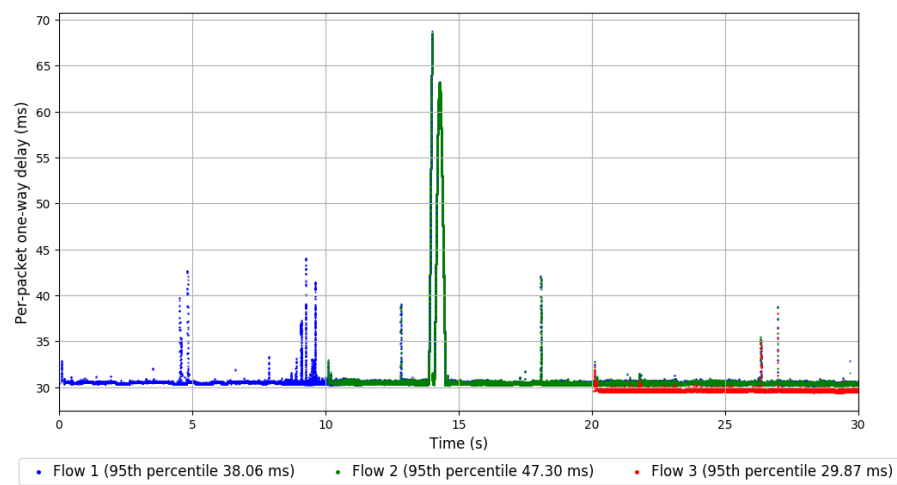
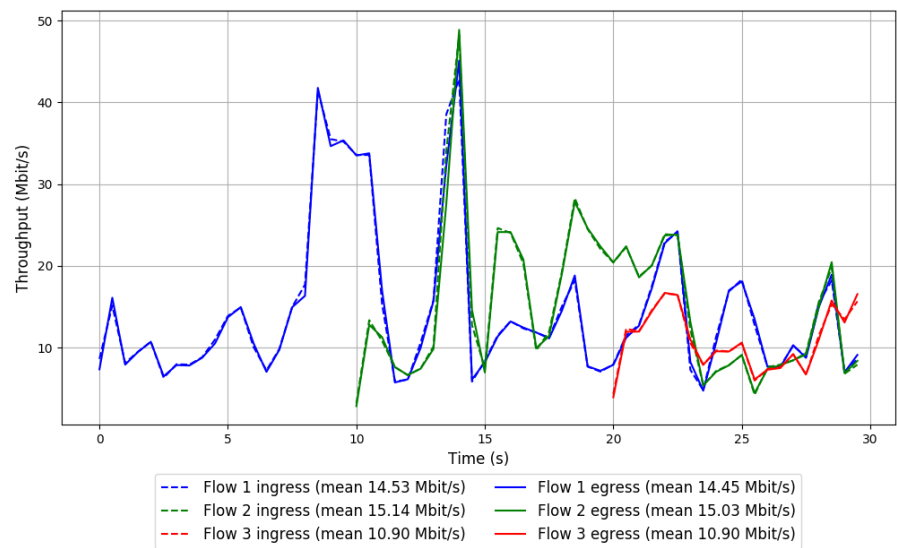
-- Flow 3:

Average throughput: 10.90 Mbit/s

95th percentile per-packet one-way delay: 29.872 ms

Loss rate: 0.00%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-04-17 21:27:32

End at: 2018-04-17 21:28:02

Local clock offset: -0.053 ms

Remote clock offset: 6.585 ms

# Below is generated by plot.py at 2018-04-17 22:25:57

# Datalink statistics

-- Total of 3 flows:

Average throughput: 90.08 Mbit/s

95th percentile per-packet one-way delay: 41.027 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 62.57 Mbit/s

95th percentile per-packet one-way delay: 42.521 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 30.29 Mbit/s

95th percentile per-packet one-way delay: 39.961 ms

Loss rate: 0.00%

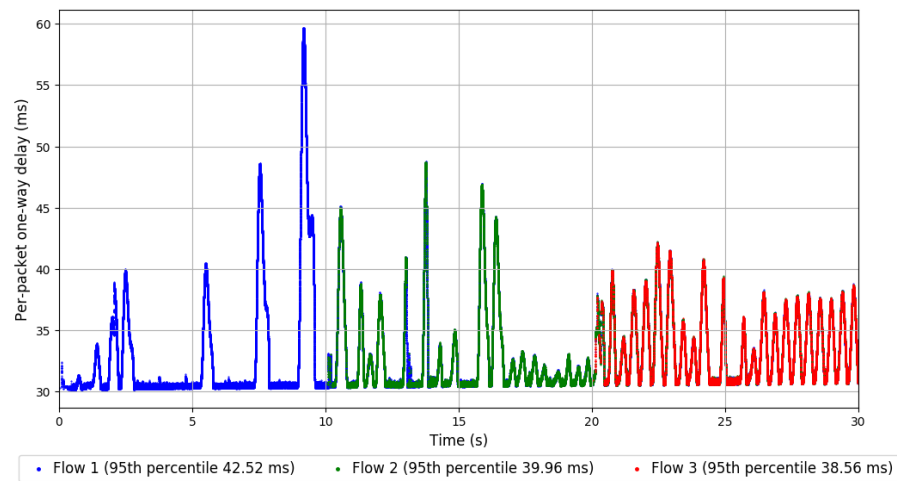
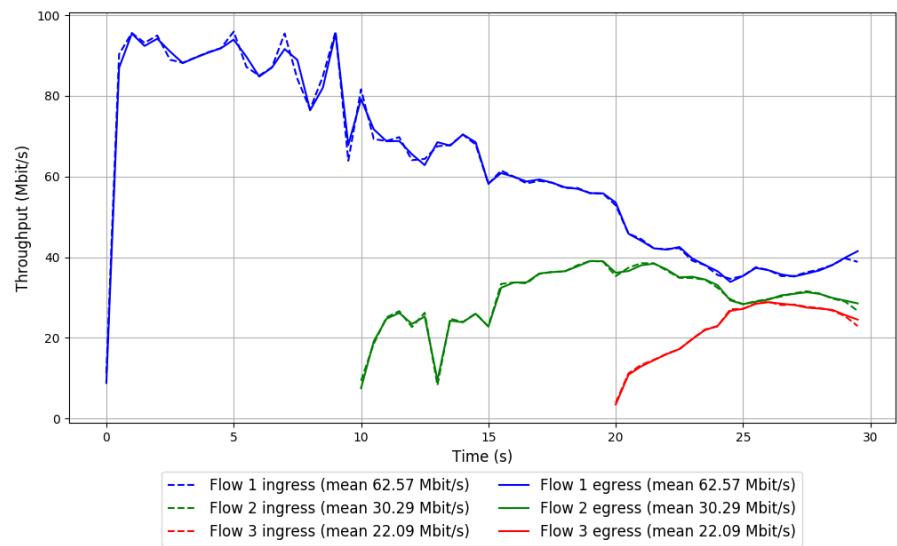
-- Flow 3:

Average throughput: 22.09 Mbit/s

95th percentile per-packet one-way delay: 38.565 ms

Loss rate: 0.01%

Run 10: Report of Copa — Data Link

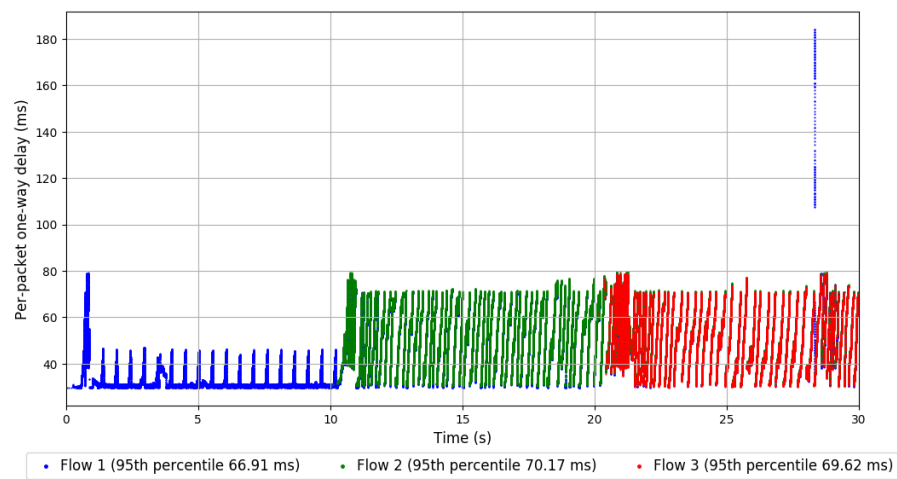
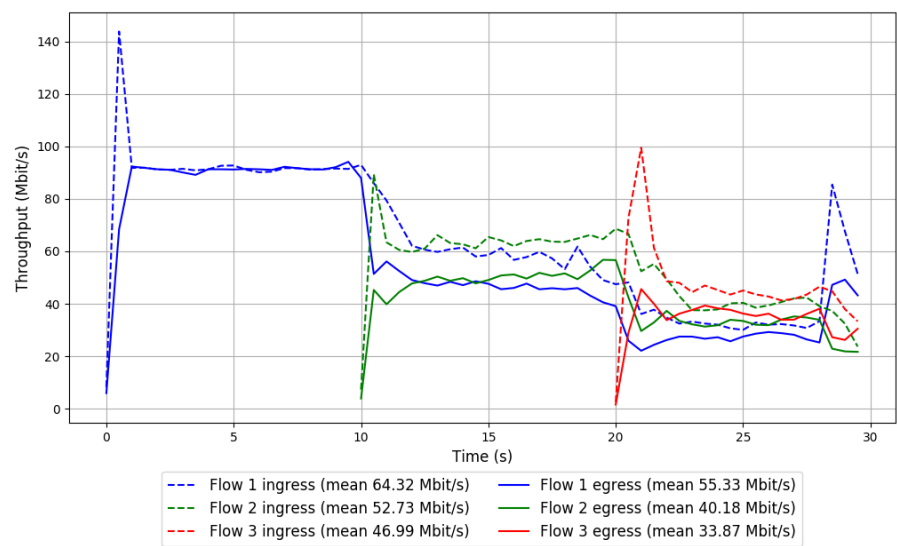


Run 1: Statistics of FillP

Start at: 2018-04-17 17:37:24  
End at: 2018-04-17 17:37:54  
Local clock offset: 2.018 ms  
Remote clock offset: -2.274 ms

# Below is generated by plot.py at 2018-04-17 22:25:57  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.32 Mbit/s  
95th percentile per-packet one-way delay: 68.713 ms  
Loss rate: 18.80%  
-- Flow 1:  
Average throughput: 55.33 Mbit/s  
95th percentile per-packet one-way delay: 66.913 ms  
Loss rate: 13.91%  
-- Flow 2:  
Average throughput: 40.18 Mbit/s  
95th percentile per-packet one-way delay: 70.165 ms  
Loss rate: 23.71%  
-- Flow 3:  
Average throughput: 33.87 Mbit/s  
95th percentile per-packet one-way delay: 69.622 ms  
Loss rate: 27.89%

Run 1: Report of FillP — Data Link

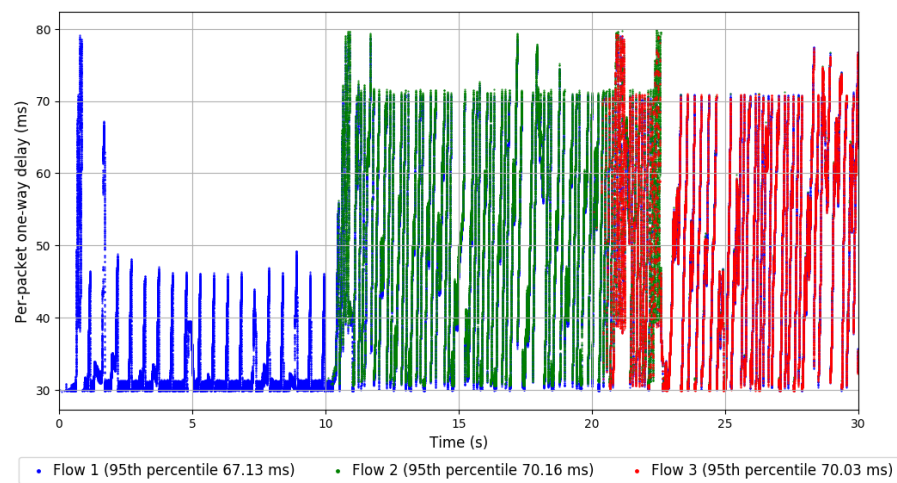
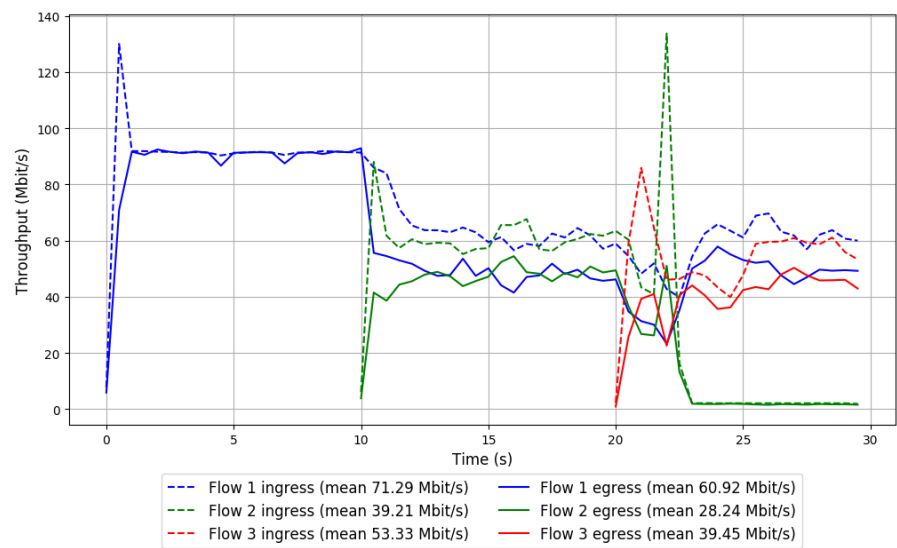


Run 2: Statistics of FillP

Start at: 2018-04-17 18:01:39  
End at: 2018-04-17 18:02:09  
Local clock offset: 3.834 ms  
Remote clock offset: -2.998 ms

# Below is generated by plot.py at 2018-04-17 22:25:57  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 92.76 Mbit/s  
95th percentile per-packet one-way delay: 68.632 ms  
Loss rate: 19.37%  
-- Flow 1:  
Average throughput: 60.92 Mbit/s  
95th percentile per-packet one-way delay: 67.133 ms  
Loss rate: 14.53%  
-- Flow 2:  
Average throughput: 28.24 Mbit/s  
95th percentile per-packet one-way delay: 70.163 ms  
Loss rate: 27.97%  
-- Flow 3:  
Average throughput: 39.45 Mbit/s  
95th percentile per-packet one-way delay: 70.027 ms  
Loss rate: 26.16%

Run 2: Report of FillP — Data Link

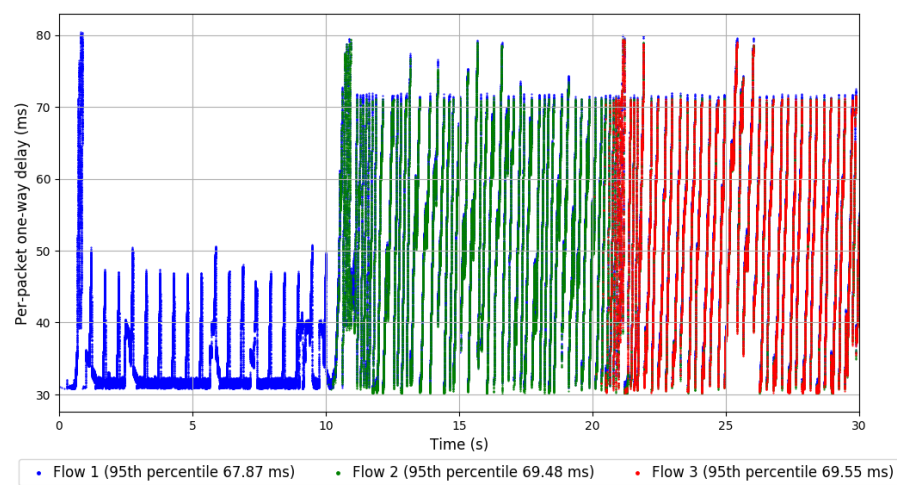
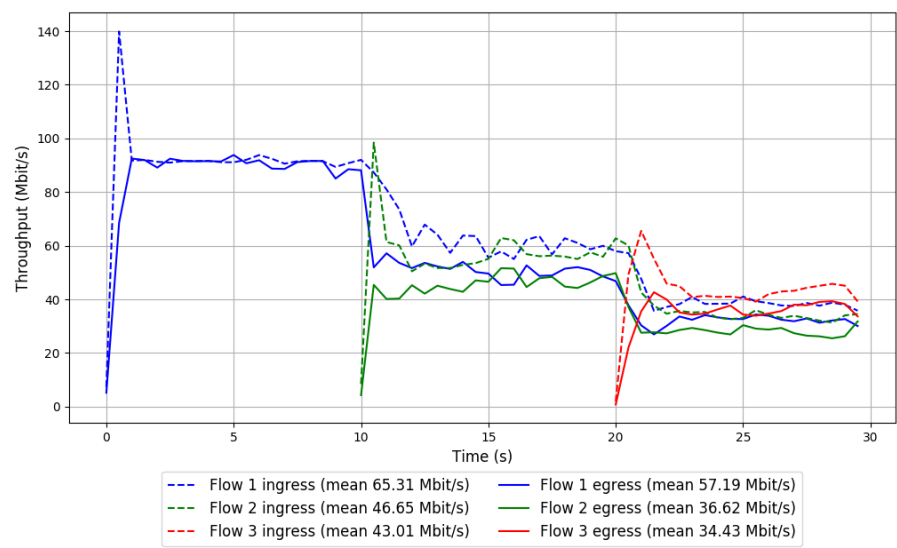


Run 3: Statistics of FillP

Start at: 2018-04-17 18:25:34  
End at: 2018-04-17 18:26:04  
Local clock offset: 6.425 ms  
Remote clock offset: 11.255 ms

# Below is generated by plot.py at 2018-04-17 22:25:57  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 92.99 Mbit/s  
95th percentile per-packet one-way delay: 68.751 ms  
Loss rate: 15.88%  
-- Flow 1:  
Average throughput: 57.19 Mbit/s  
95th percentile per-packet one-way delay: 67.874 ms  
Loss rate: 12.36%  
-- Flow 2:  
Average throughput: 36.62 Mbit/s  
95th percentile per-packet one-way delay: 69.476 ms  
Loss rate: 21.40%  
-- Flow 3:  
Average throughput: 34.43 Mbit/s  
95th percentile per-packet one-way delay: 69.551 ms  
Loss rate: 19.96%

Run 3: Report of FillP — Data Link

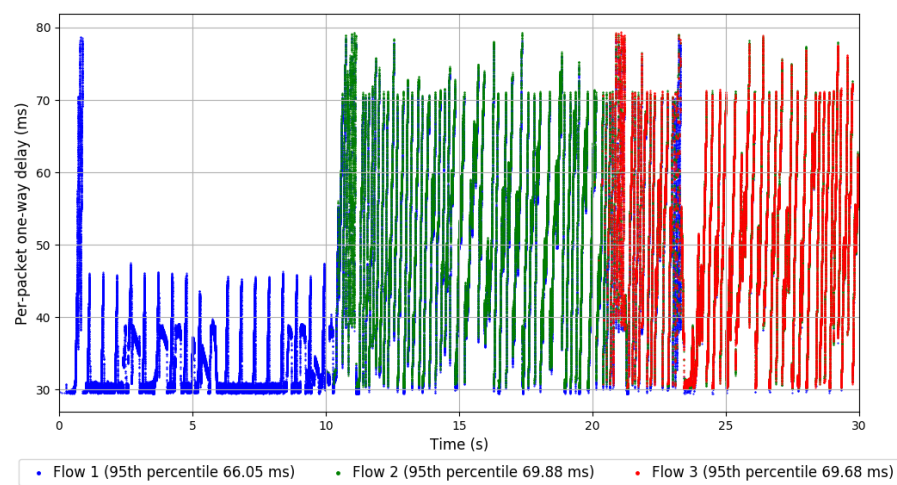
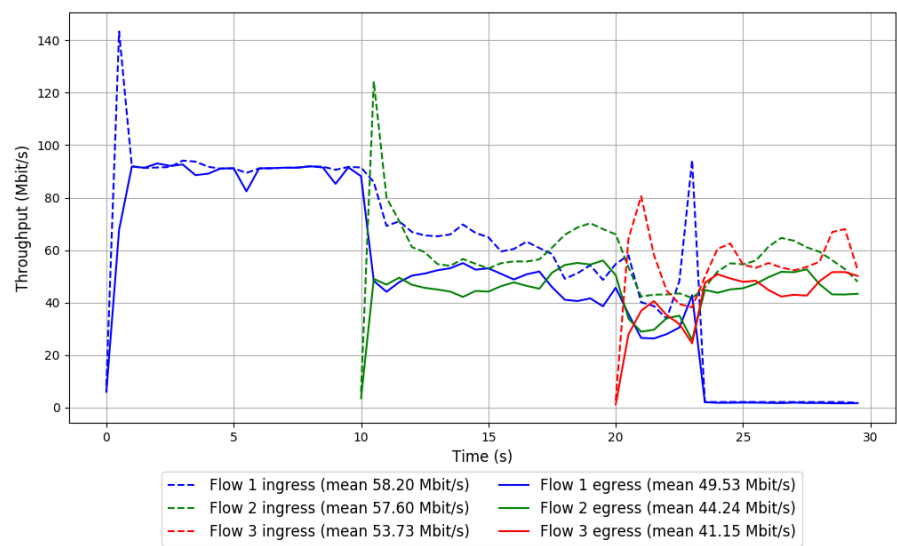


Run 4: Statistics of FillP

Start at: 2018-04-17 18:49:43  
End at: 2018-04-17 18:50:13  
Local clock offset: 0.165 ms  
Remote clock offset: 14.158 ms

# Below is generated by plot.py at 2018-04-17 22:25:57  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 92.60 Mbit/s  
95th percentile per-packet one-way delay: 68.431 ms  
Loss rate: 18.94%  
-- Flow 1:  
Average throughput: 49.53 Mbit/s  
95th percentile per-packet one-way delay: 66.049 ms  
Loss rate: 14.83%  
-- Flow 2:  
Average throughput: 44.24 Mbit/s  
95th percentile per-packet one-way delay: 69.884 ms  
Loss rate: 23.10%  
-- Flow 3:  
Average throughput: 41.15 Mbit/s  
95th percentile per-packet one-way delay: 69.677 ms  
Loss rate: 23.42%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-04-17 19:14:07

End at: 2018-04-17 19:14:37

Local clock offset: 0.219 ms

Remote clock offset: 9.146 ms

# Below is generated by plot.py at 2018-04-17 22:25:57

# Datalink statistics

-- Total of 3 flows:

Average throughput: 91.34 Mbit/s

95th percentile per-packet one-way delay: 68.152 ms

Loss rate: 17.65%

-- Flow 1:

Average throughput: 47.34 Mbit/s

95th percentile per-packet one-way delay: 66.763 ms

Loss rate: 14.58%

-- Flow 2:

Average throughput: 29.95 Mbit/s

95th percentile per-packet one-way delay: 71.104 ms

Loss rate: 28.79%

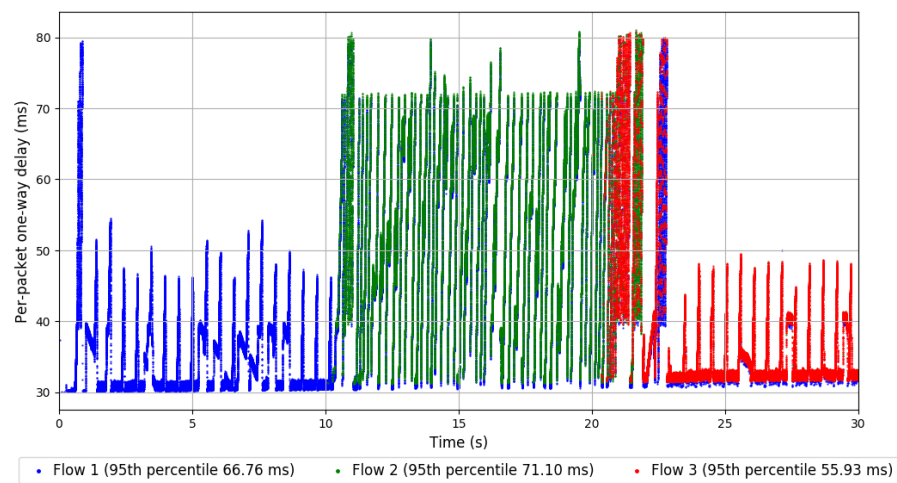
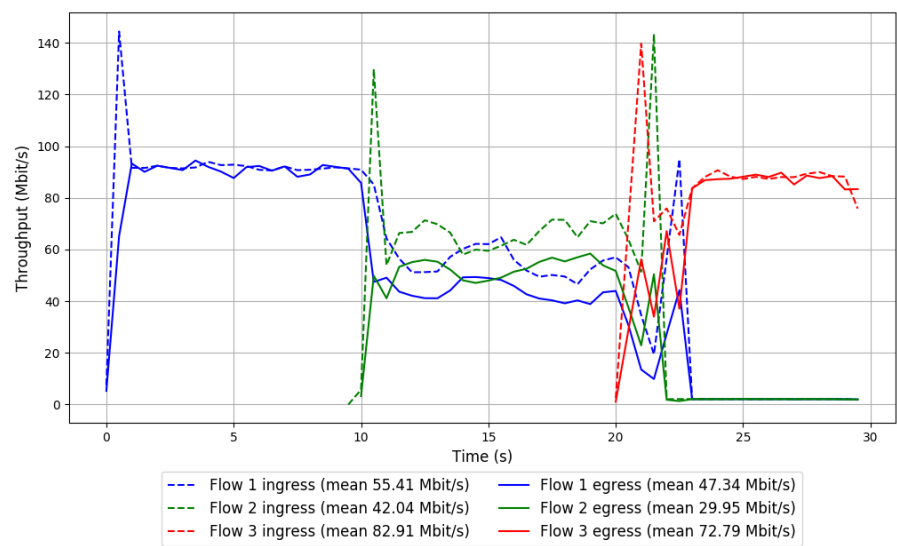
-- Flow 3:

Average throughput: 72.79 Mbit/s

95th percentile per-packet one-way delay: 55.929 ms

Loss rate: 12.48%

Run 5: Report of FillP — Data Link

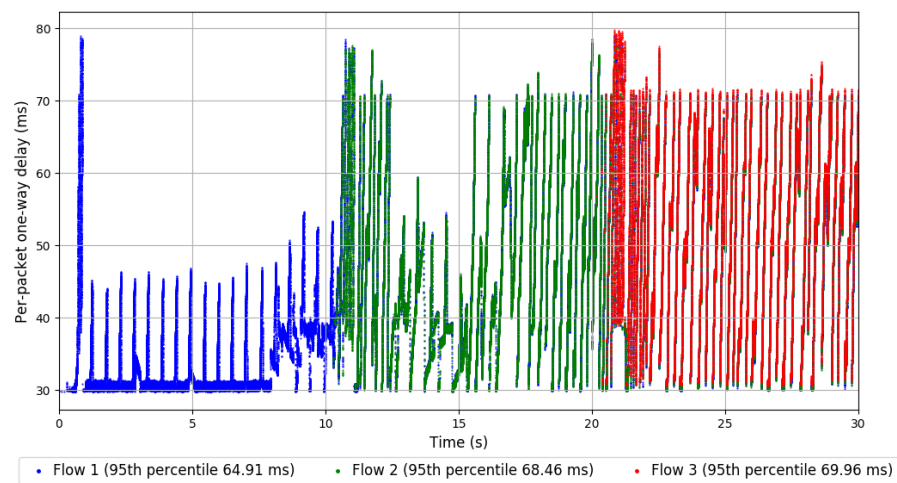
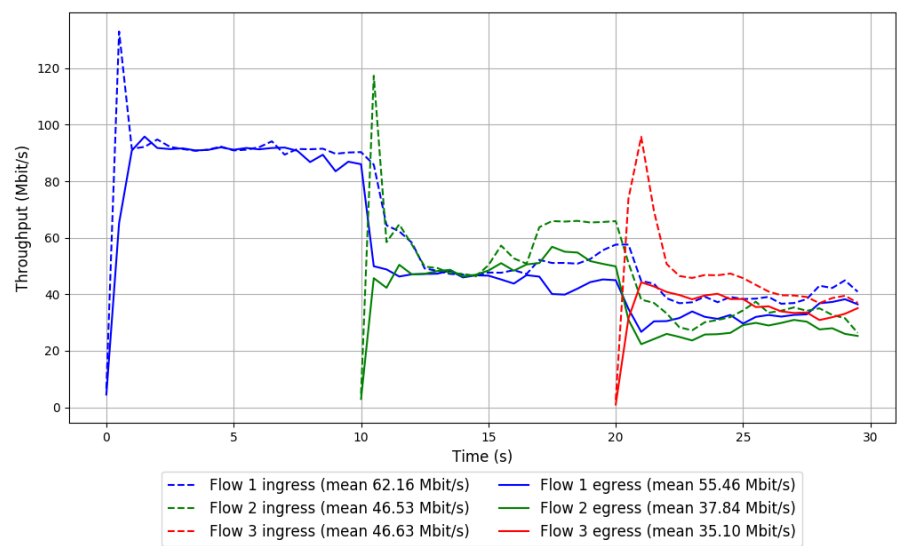


Run 6: Statistics of FillP

Start at: 2018-04-17 19:39:30  
End at: 2018-04-17 19:40:00  
Local clock offset: 0.925 ms  
Remote clock offset: -8.934 ms

# Below is generated by plot.py at 2018-04-17 22:25:57  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 92.28 Mbit/s  
95th percentile per-packet one-way delay: 67.371 ms  
Loss rate: 14.93%  
-- Flow 1:  
Average throughput: 55.46 Mbit/s  
95th percentile per-packet one-way delay: 64.905 ms  
Loss rate: 10.69%  
-- Flow 2:  
Average throughput: 37.84 Mbit/s  
95th percentile per-packet one-way delay: 68.460 ms  
Loss rate: 18.59%  
-- Flow 3:  
Average throughput: 35.10 Mbit/s  
95th percentile per-packet one-way delay: 69.963 ms  
Loss rate: 24.65%

Run 6: Report of FillP — Data Link

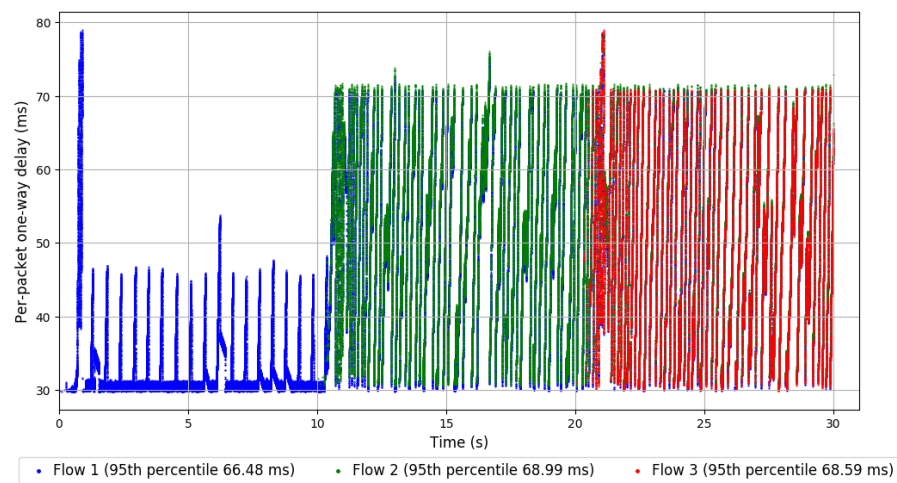
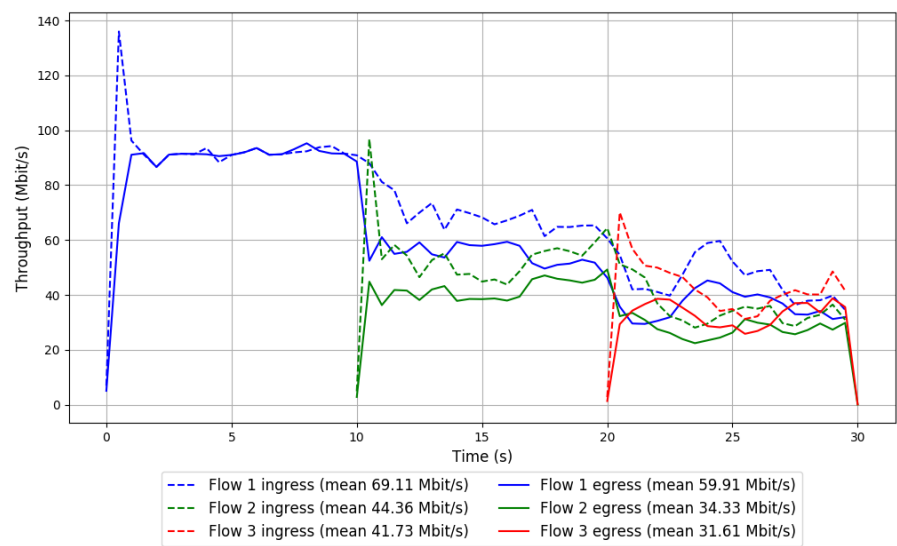


Run 7: Statistics of FillP

Start at: 2018-04-17 20:08:06  
End at: 2018-04-17 20:08:36  
Local clock offset: -0.369 ms  
Remote clock offset: -10.227 ms

# Below is generated by plot.py at 2018-04-17 22:25:57  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.26 Mbit/s  
95th percentile per-packet one-way delay: 67.684 ms  
Loss rate: 16.96%  
-- Flow 1:  
Average throughput: 59.91 Mbit/s  
95th percentile per-packet one-way delay: 66.480 ms  
Loss rate: 13.21%  
-- Flow 2:  
Average throughput: 34.33 Mbit/s  
95th percentile per-packet one-way delay: 68.987 ms  
Loss rate: 22.45%  
-- Flow 3:  
Average throughput: 31.61 Mbit/s  
95th percentile per-packet one-way delay: 68.586 ms  
Loss rate: 24.00%

Run 7: Report of FillP — Data Link

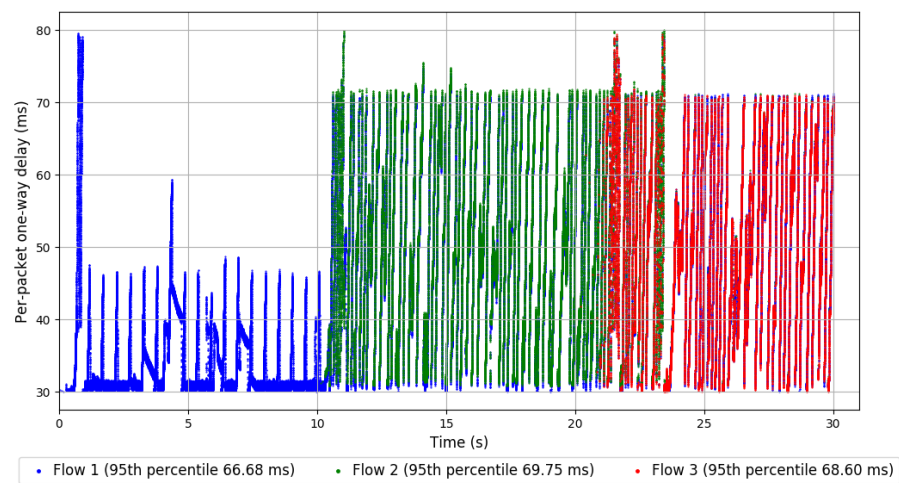
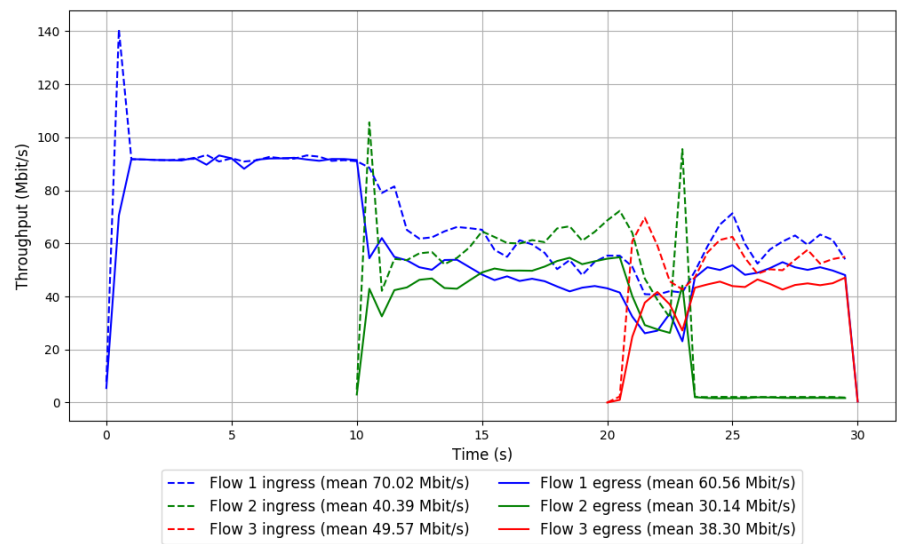


Run 8: Statistics of FillP

Start at: 2018-04-17 20:36:46  
End at: 2018-04-17 20:37:16  
Local clock offset: -0.215 ms  
Remote clock offset: -1.867 ms

# Below is generated by plot.py at 2018-04-17 22:25:57  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.12 Mbit/s  
95th percentile per-packet one-way delay: 67.956 ms  
Loss rate: 17.76%  
-- Flow 1:  
Average throughput: 60.56 Mbit/s  
95th percentile per-packet one-way delay: 66.684 ms  
Loss rate: 13.43%  
-- Flow 2:  
Average throughput: 30.14 Mbit/s  
95th percentile per-packet one-way delay: 69.749 ms  
Loss rate: 25.35%  
-- Flow 3:  
Average throughput: 38.30 Mbit/s  
95th percentile per-packet one-way delay: 68.602 ms  
Loss rate: 23.79%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-04-17 21:05:03

End at: 2018-04-17 21:05:33

Local clock offset: 0.135 ms

Remote clock offset: 3.62 ms

# Below is generated by plot.py at 2018-04-17 22:25:57

# Datalink statistics

-- Total of 3 flows:

Average throughput: 92.42 Mbit/s

95th percentile per-packet one-way delay: 66.814 ms

Loss rate: 14.59%

-- Flow 1:

Average throughput: 50.60 Mbit/s

95th percentile per-packet one-way delay: 64.975 ms

Loss rate: 11.71%

-- Flow 2:

Average throughput: 39.81 Mbit/s

95th percentile per-packet one-way delay: 68.025 ms

Loss rate: 18.33%

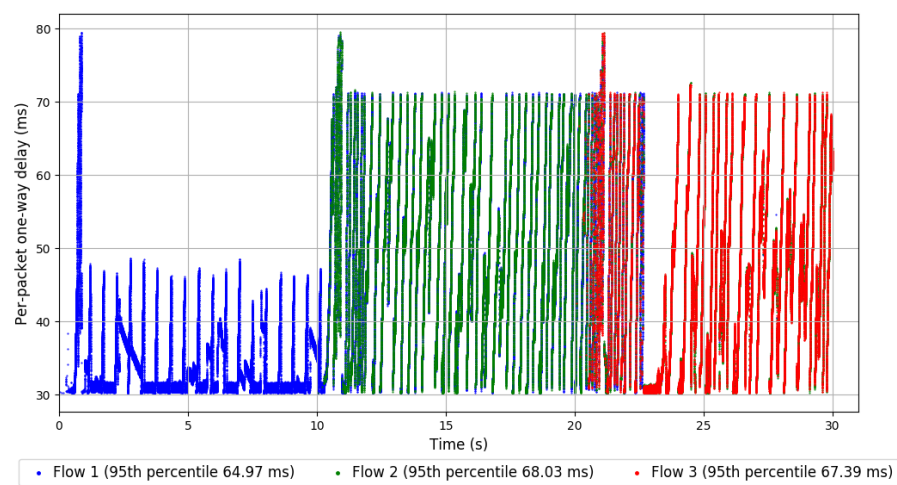
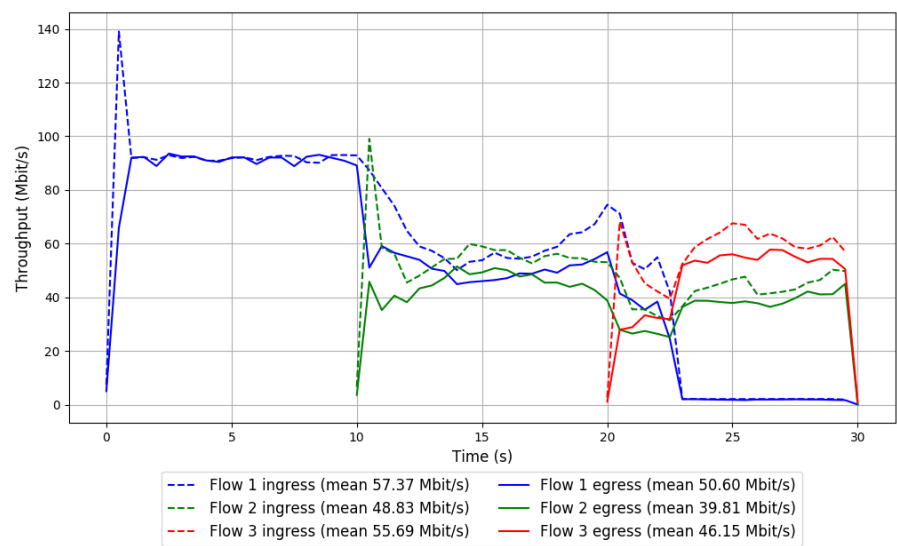
-- Flow 3:

Average throughput: 46.15 Mbit/s

95th percentile per-packet one-way delay: 67.393 ms

Loss rate: 16.96%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-04-17 21:32:06

End at: 2018-04-17 21:32:36

Local clock offset: -0.096 ms

Remote clock offset: 2.993 ms

# Below is generated by plot.py at 2018-04-17 22:25:57

# Datalink statistics

-- Total of 3 flows:

Average throughput: 92.98 Mbit/s

95th percentile per-packet one-way delay: 67.784 ms

Loss rate: 18.20%

-- Flow 1:

Average throughput: 51.89 Mbit/s

95th percentile per-packet one-way delay: 66.434 ms

Loss rate: 14.53%

-- Flow 2:

Average throughput: 42.17 Mbit/s

95th percentile per-packet one-way delay: 68.669 ms

Loss rate: 22.13%

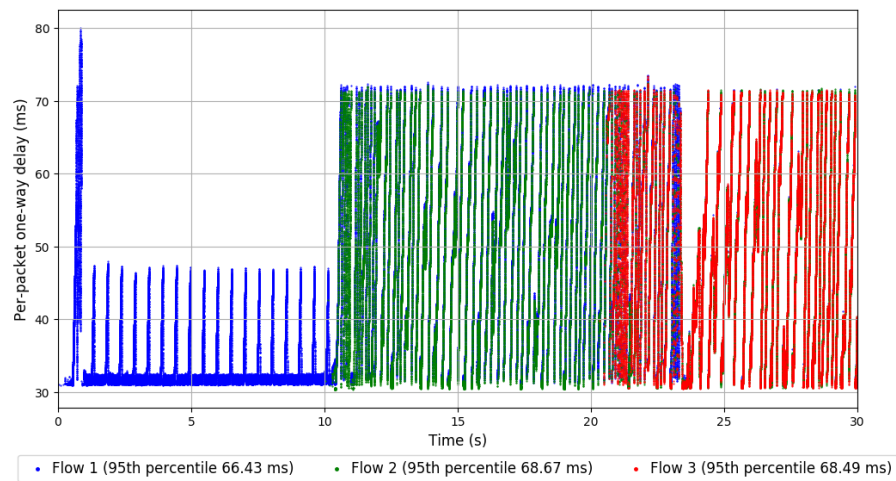
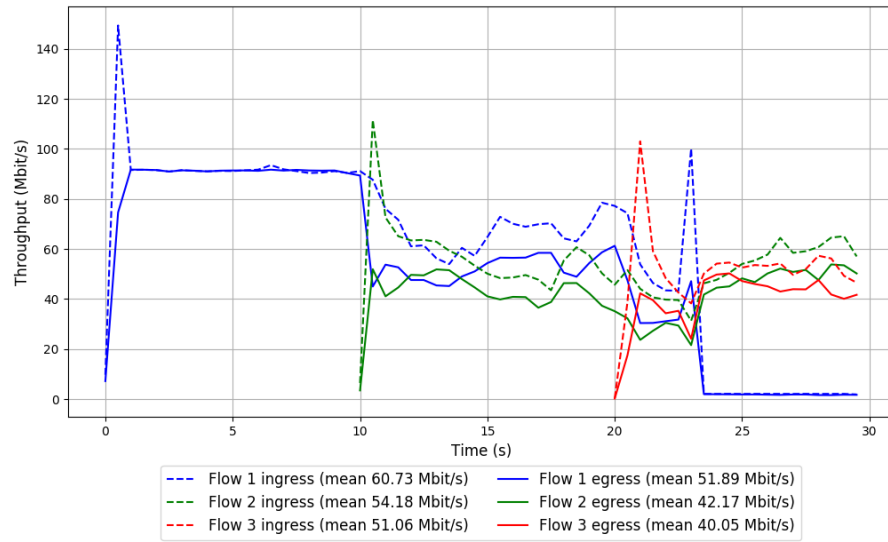
-- Flow 3:

Average throughput: 40.05 Mbit/s

95th percentile per-packet one-way delay: 68.486 ms

Loss rate: 22.98%

# Run 10: Report of FillP — Data Link

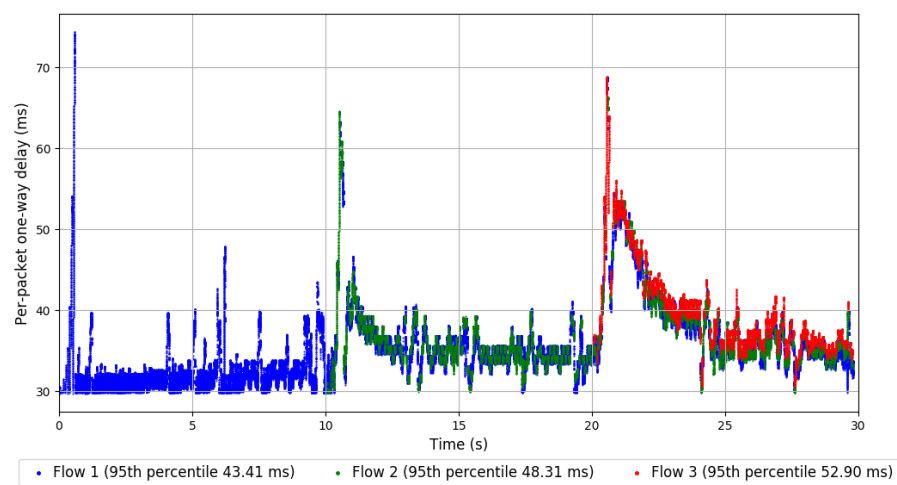
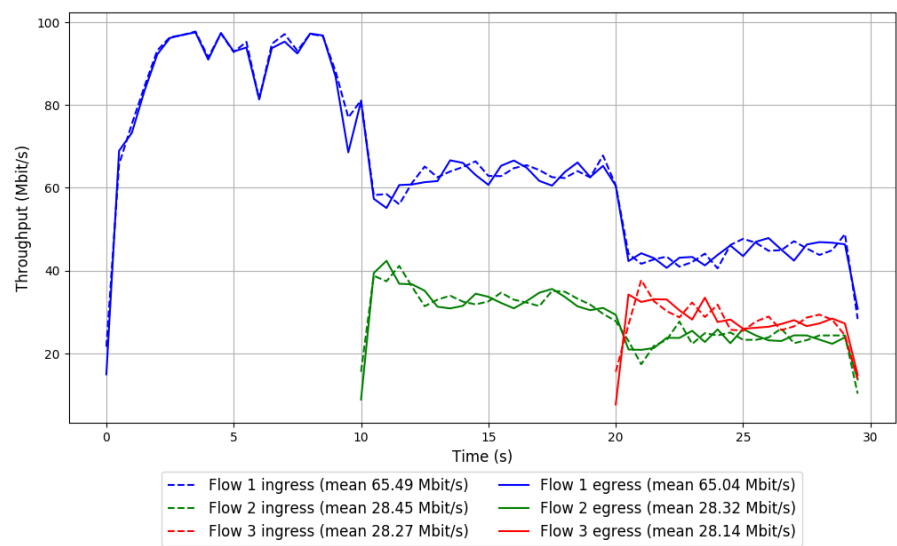


Run 1: Statistics of Indigo-1-32

Start at: 2018-04-17 17:31:13  
End at: 2018-04-17 17:31:43  
Local clock offset: 1.74 ms  
Remote clock offset: -2.328 ms

# Below is generated by plot.py at 2018-04-17 22:25:57  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.01 Mbit/s  
95th percentile per-packet one-way delay: 47.010 ms  
Loss rate: 0.61%  
-- Flow 1:  
Average throughput: 65.04 Mbit/s  
95th percentile per-packet one-way delay: 43.408 ms  
Loss rate: 0.68%  
-- Flow 2:  
Average throughput: 28.32 Mbit/s  
95th percentile per-packet one-way delay: 48.313 ms  
Loss rate: 0.44%  
-- Flow 3:  
Average throughput: 28.14 Mbit/s  
95th percentile per-packet one-way delay: 52.896 ms  
Loss rate: 0.47%

Run 1: Report of Indigo-1-32 — Data Link

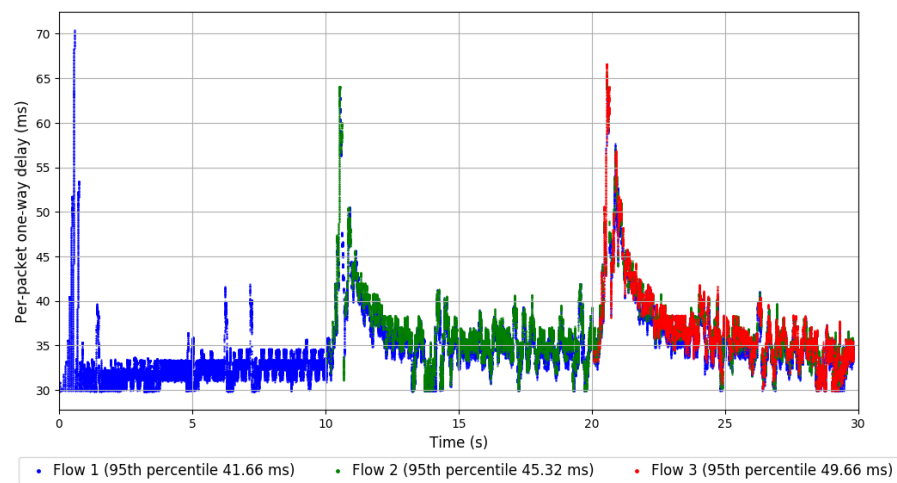
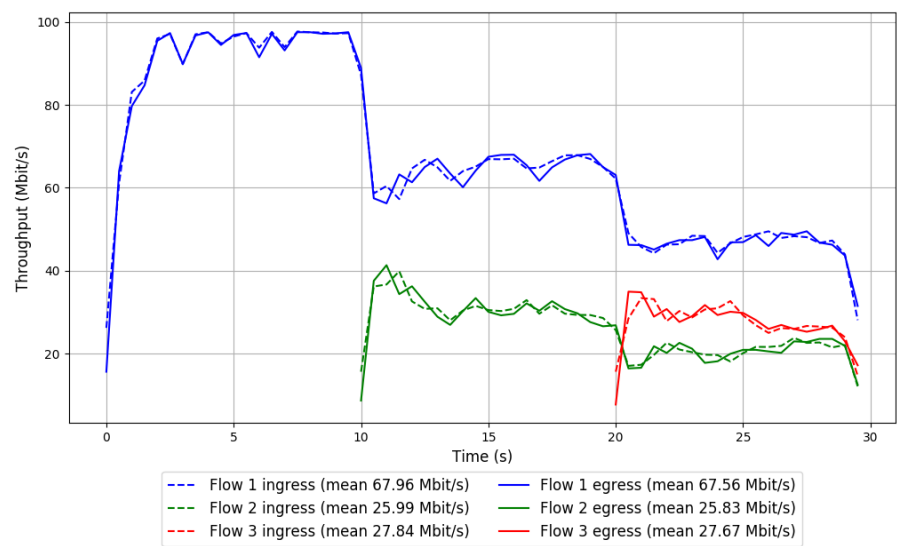


Run 2: Statistics of Indigo-1-32

Start at: 2018-04-17 17:55:43  
End at: 2018-04-17 17:56:13  
Local clock offset: 2.455 ms  
Remote clock offset: -2.618 ms

# Below is generated by plot.py at 2018-04-17 22:25:57  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.72 Mbit/s  
95th percentile per-packet one-way delay: 43.210 ms  
Loss rate: 0.59%  
-- Flow 1:  
Average throughput: 67.56 Mbit/s  
95th percentile per-packet one-way delay: 41.665 ms  
Loss rate: 0.58%  
-- Flow 2:  
Average throughput: 25.83 Mbit/s  
95th percentile per-packet one-way delay: 45.321 ms  
Loss rate: 0.62%  
-- Flow 3:  
Average throughput: 27.67 Mbit/s  
95th percentile per-packet one-way delay: 49.664 ms  
Loss rate: 0.61%

Run 2: Report of Indigo-1-32 — Data Link



Run 3: Statistics of Indigo-1-32

Start at: 2018-04-17 18:19:27

End at: 2018-04-17 18:19:57

Local clock offset: 5.992 ms

Remote clock offset: 9.268 ms

# Below is generated by plot.py at 2018-04-17 22:25:57

# Datalink statistics

-- Total of 3 flows:

Average throughput: 93.08 Mbit/s

95th percentile per-packet one-way delay: 51.422 ms

Loss rate: 1.86%

-- Flow 1:

Average throughput: 64.46 Mbit/s

95th percentile per-packet one-way delay: 47.667 ms

Loss rate: 1.15%

-- Flow 2:

Average throughput: 29.99 Mbit/s

95th percentile per-packet one-way delay: 52.970 ms

Loss rate: 1.87%

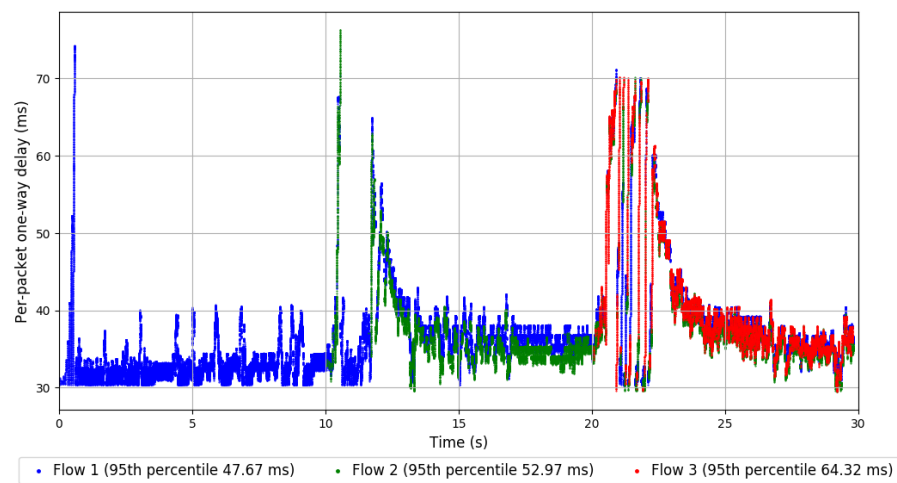
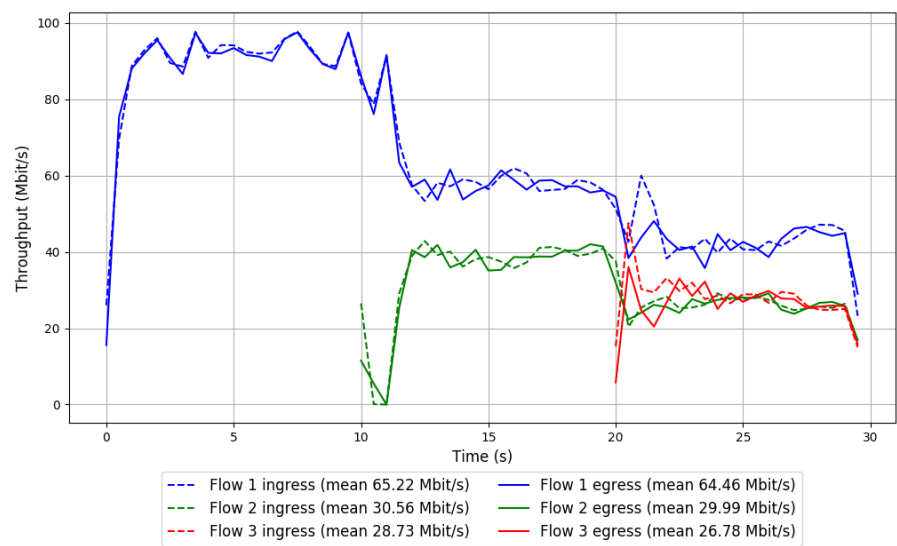
-- Flow 3:

Average throughput: 26.78 Mbit/s

95th percentile per-packet one-way delay: 64.319 ms

Loss rate: 6.74%

Run 3: Report of Indigo-1-32 — Data Link

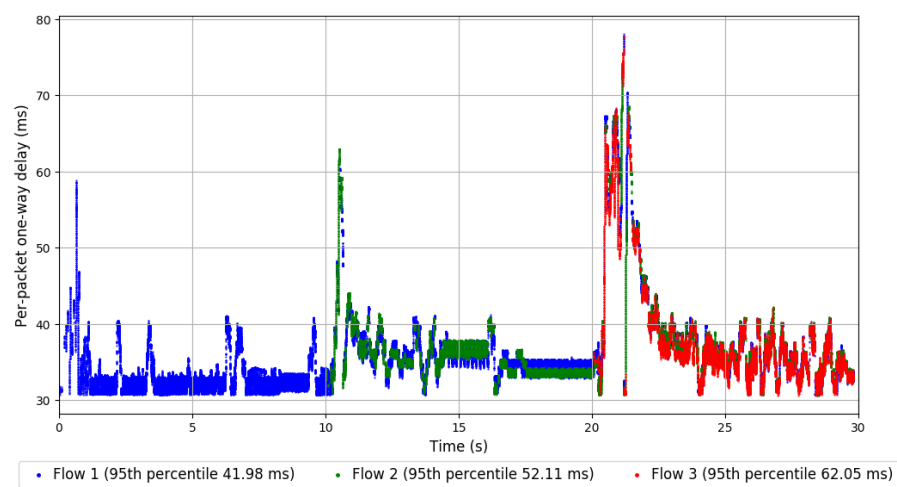
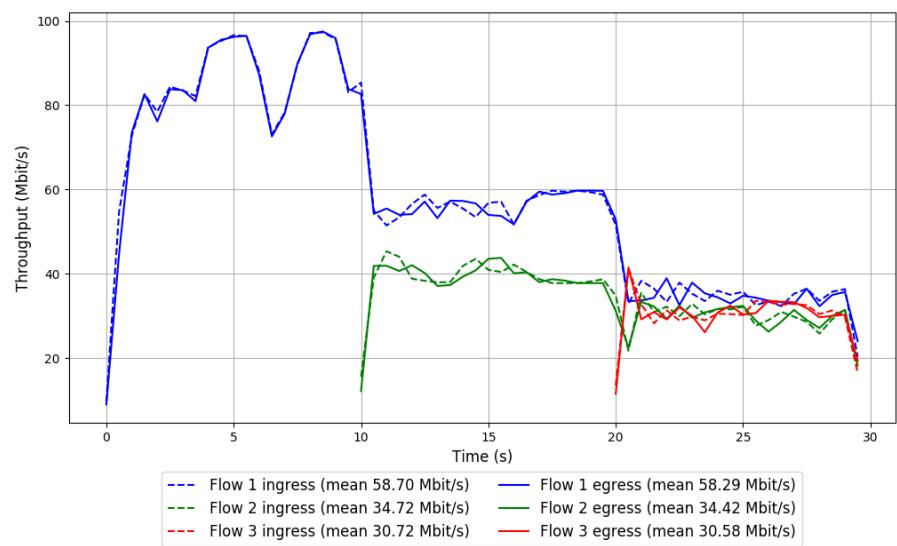


Run 4: Statistics of Indigo-1-32

Start at: 2018-04-17 18:43:51  
End at: 2018-04-17 18:44:21  
Local clock offset: 1.126 ms  
Remote clock offset: 14.032 ms

# Below is generated by plot.py at 2018-04-17 22:25:57  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 91.11 Mbit/s  
95th percentile per-packet one-way delay: 49.239 ms  
Loss rate: 0.71%  
-- Flow 1:  
Average throughput: 58.29 Mbit/s  
95th percentile per-packet one-way delay: 41.980 ms  
Loss rate: 0.69%  
-- Flow 2:  
Average throughput: 34.42 Mbit/s  
95th percentile per-packet one-way delay: 52.109 ms  
Loss rate: 0.86%  
-- Flow 3:  
Average throughput: 30.58 Mbit/s  
95th percentile per-packet one-way delay: 62.052 ms  
Loss rate: 0.48%

Run 4: Report of Indigo-1-32 — Data Link

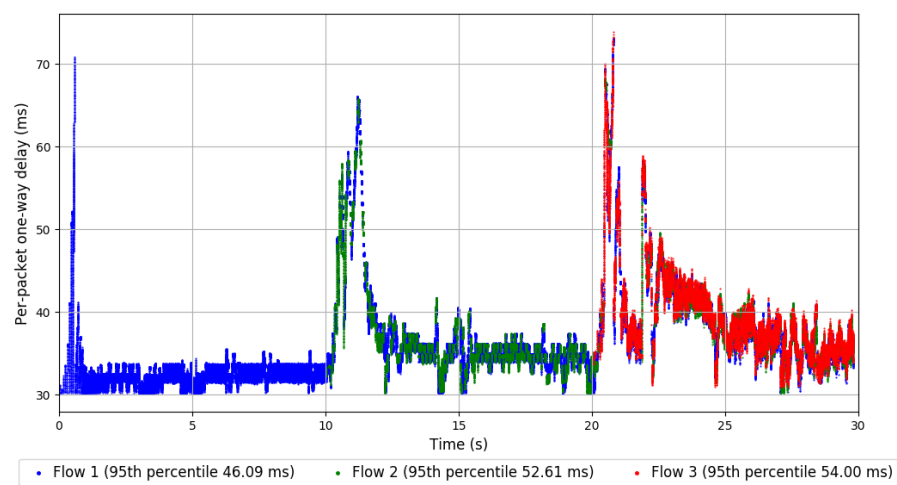
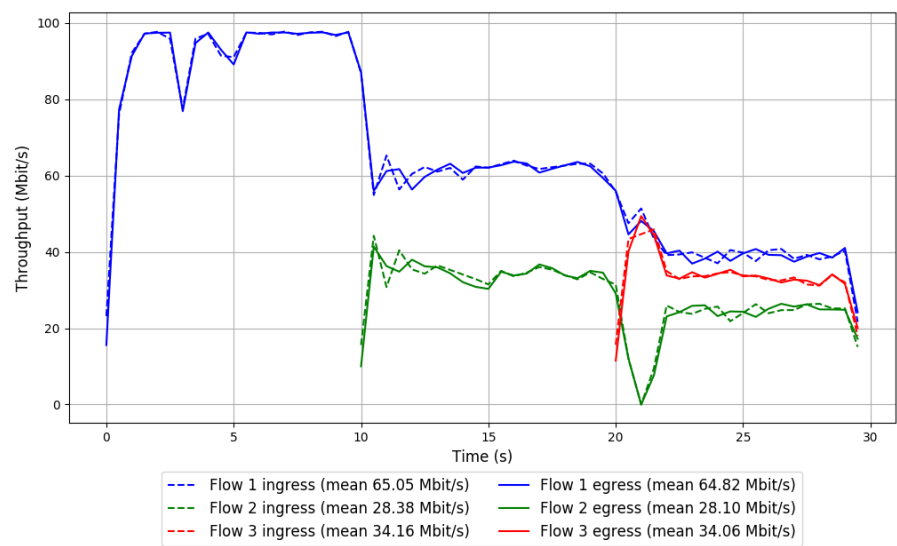


Run 5: Statistics of Indigo-1-32

Start at: 2018-04-17 19:07:58  
End at: 2018-04-17 19:08:28  
Local clock offset: -0.563 ms  
Remote clock offset: 16.687 ms

# Below is generated by plot.py at 2018-04-17 22:26:14  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 94.62 Mbit/s  
95th percentile per-packet one-way delay: 49.387 ms  
Loss rate: 0.46%  
-- Flow 1:  
Average throughput: 64.82 Mbit/s  
95th percentile per-packet one-way delay: 46.091 ms  
Loss rate: 0.34%  
-- Flow 2:  
Average throughput: 28.10 Mbit/s  
95th percentile per-packet one-way delay: 52.611 ms  
Loss rate: 0.96%  
-- Flow 3:  
Average throughput: 34.06 Mbit/s  
95th percentile per-packet one-way delay: 54.004 ms  
Loss rate: 0.29%

Run 5: Report of Indigo-1-32 — Data Link

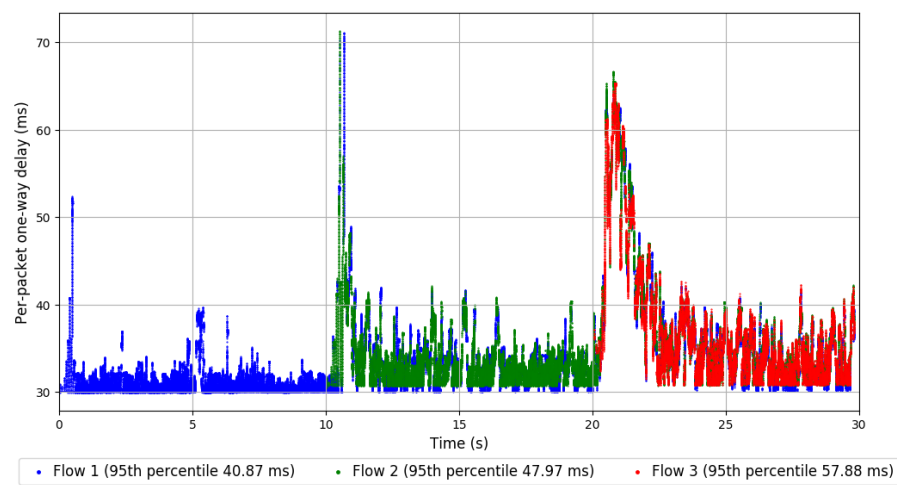
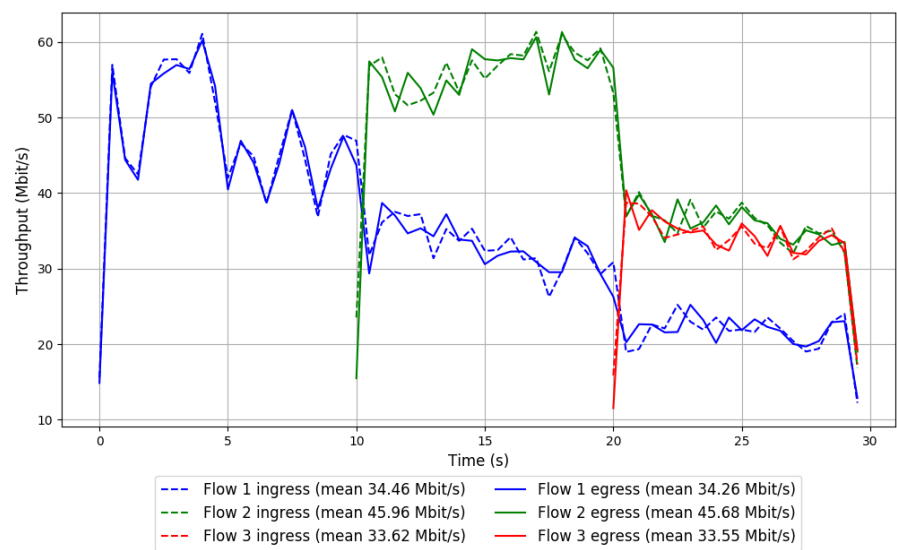


Run 6: Statistics of Indigo-1-32

Start at: 2018-04-17 19:32:20  
End at: 2018-04-17 19:32:50  
Local clock offset: 0.908 ms  
Remote clock offset: -6.238 ms

# Below is generated by plot.py at 2018-04-17 22:26:14  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 75.58 Mbit/s  
95th percentile per-packet one-way delay: 47.031 ms  
Loss rate: 0.49%  
-- Flow 1:  
Average throughput: 34.26 Mbit/s  
95th percentile per-packet one-way delay: 40.868 ms  
Loss rate: 0.53%  
-- Flow 2:  
Average throughput: 45.68 Mbit/s  
95th percentile per-packet one-way delay: 47.973 ms  
Loss rate: 0.56%  
-- Flow 3:  
Average throughput: 33.55 Mbit/s  
95th percentile per-packet one-way delay: 57.880 ms  
Loss rate: 0.18%

Run 6: Report of Indigo-1-32 — Data Link

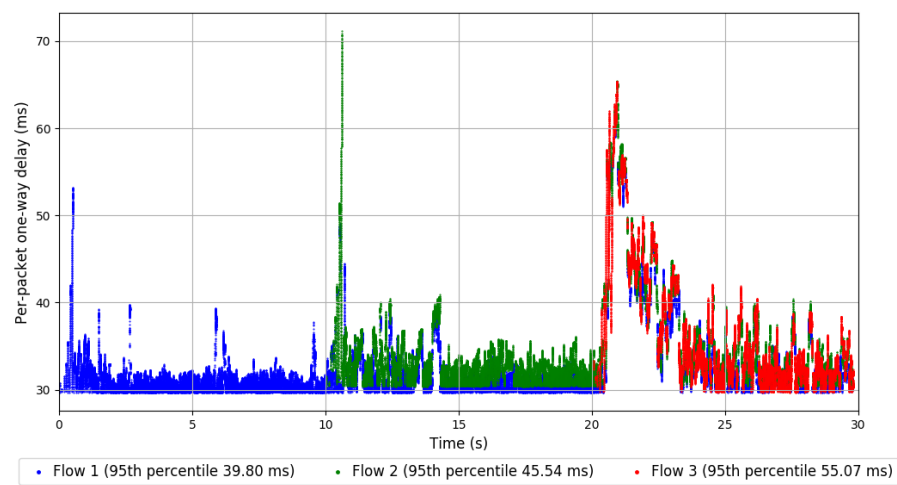
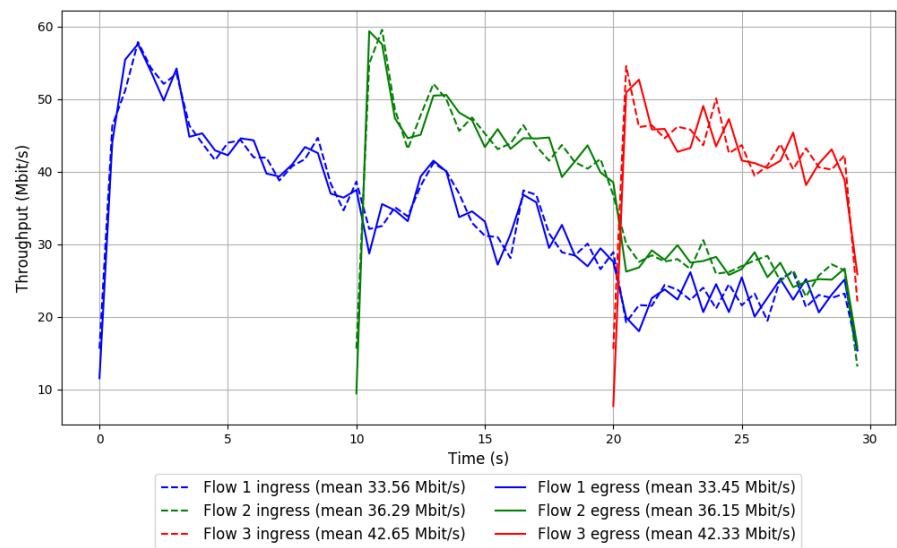


Run 7: Statistics of Indigo-1-32

Start at: 2018-04-17 20:00:45  
End at: 2018-04-17 20:01:15  
Local clock offset: -0.113 ms  
Remote clock offset: -9.355 ms

# Below is generated by plot.py at 2018-04-17 22:26:23  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 71.25 Mbit/s  
95th percentile per-packet one-way delay: 46.233 ms  
Loss rate: 0.42%  
-- Flow 1:  
Average throughput: 33.45 Mbit/s  
95th percentile per-packet one-way delay: 39.804 ms  
Loss rate: 0.32%  
-- Flow 2:  
Average throughput: 36.15 Mbit/s  
95th percentile per-packet one-way delay: 45.543 ms  
Loss rate: 0.36%  
-- Flow 3:  
Average throughput: 42.33 Mbit/s  
95th percentile per-packet one-way delay: 55.073 ms  
Loss rate: 0.74%

Run 7: Report of Indigo-1-32 — Data Link

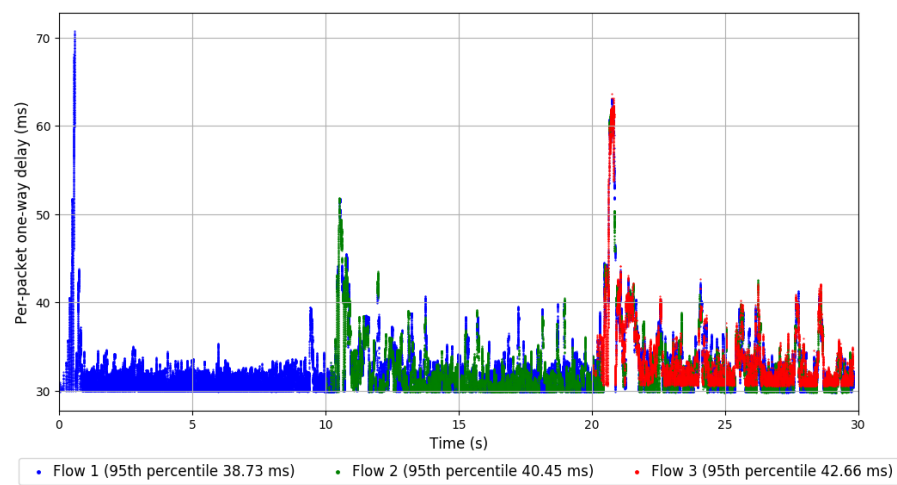
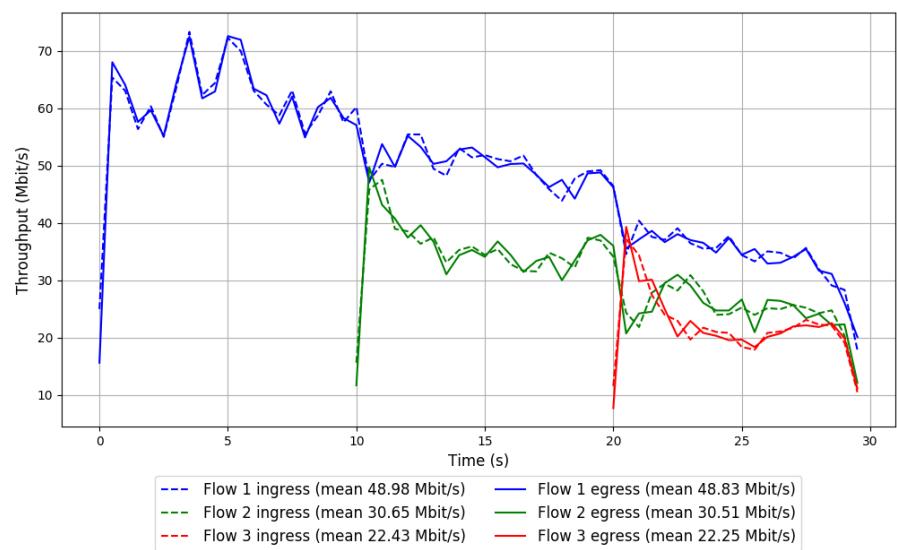


Run 8: Statistics of Indigo-1-32

Start at: 2018-04-17 20:29:39  
End at: 2018-04-17 20:30:09  
Local clock offset: -0.188 ms  
Remote clock offset: -3.577 ms

# Below is generated by plot.py at 2018-04-17 22:26:40  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 76.31 Mbit/s  
95th percentile per-packet one-way delay: 39.711 ms  
Loss rate: 0.39%  
-- Flow 1:  
Average throughput: 48.83 Mbit/s  
95th percentile per-packet one-way delay: 38.732 ms  
Loss rate: 0.30%  
-- Flow 2:  
Average throughput: 30.51 Mbit/s  
95th percentile per-packet one-way delay: 40.453 ms  
Loss rate: 0.46%  
-- Flow 3:  
Average throughput: 22.25 Mbit/s  
95th percentile per-packet one-way delay: 42.658 ms  
Loss rate: 0.81%

Run 8: Report of Indigo-1-32 — Data Link



Run 9: Statistics of Indigo-1-32

Start at: 2018-04-17 20:58:38

End at: 2018-04-17 20:59:08

Local clock offset: 0.031 ms

Remote clock offset: 1.606 ms

# Below is generated by plot.py at 2018-04-17 22:26:51

# Datalink statistics

-- Total of 3 flows:

Average throughput: 79.84 Mbit/s

95th percentile per-packet one-way delay: 37.421 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 54.59 Mbit/s

95th percentile per-packet one-way delay: 36.334 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 19.72 Mbit/s

95th percentile per-packet one-way delay: 38.616 ms

Loss rate: 0.03%

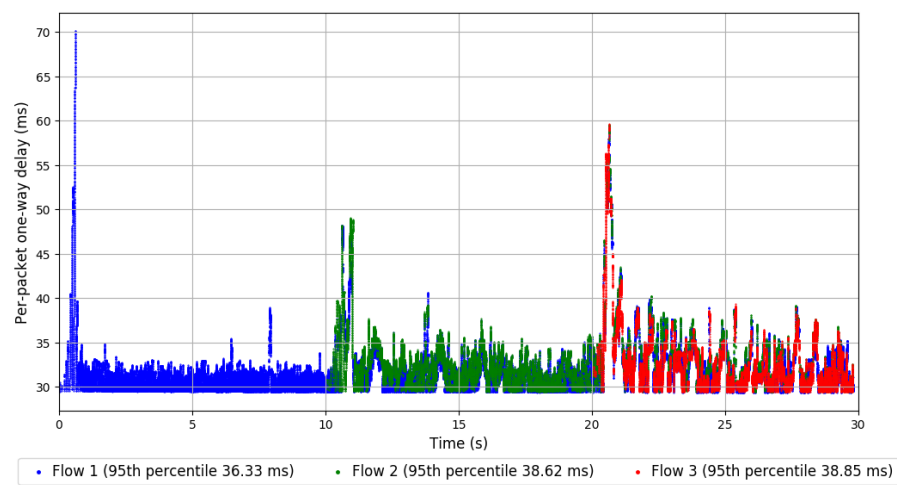
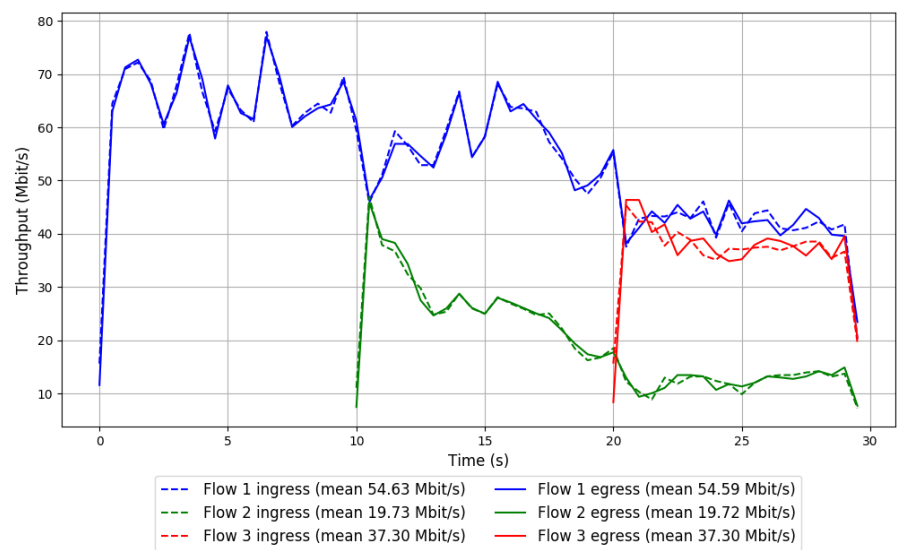
-- Flow 3:

Average throughput: 37.30 Mbit/s

95th percentile per-packet one-way delay: 38.847 ms

Loss rate: 0.00%

Run 9: Report of Indigo-1-32 — Data Link



Run 10: Statistics of Indigo-1-32

Start at: 2018-04-17 21:25:52

End at: 2018-04-17 21:26:22

Local clock offset: 0.061 ms

Remote clock offset: 6.815 ms

# Below is generated by plot.py at 2018-04-17 22:27:20

# Datalink statistics

-- Total of 3 flows:

Average throughput: 92.93 Mbit/s

95th percentile per-packet one-way delay: 56.131 ms

Loss rate: 1.21%

-- Flow 1:

Average throughput: 59.34 Mbit/s

95th percentile per-packet one-way delay: 54.312 ms

Loss rate: 0.93%

-- Flow 2:

Average throughput: 38.48 Mbit/s

95th percentile per-packet one-way delay: 57.624 ms

Loss rate: 2.00%

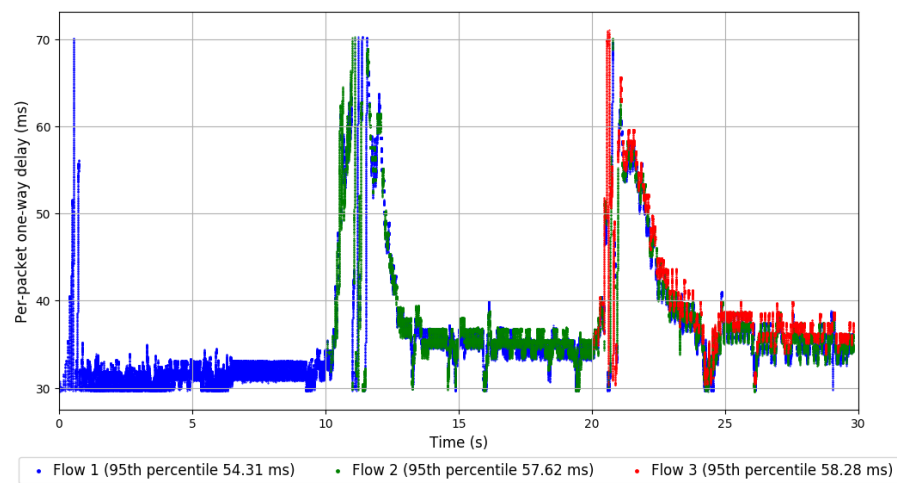
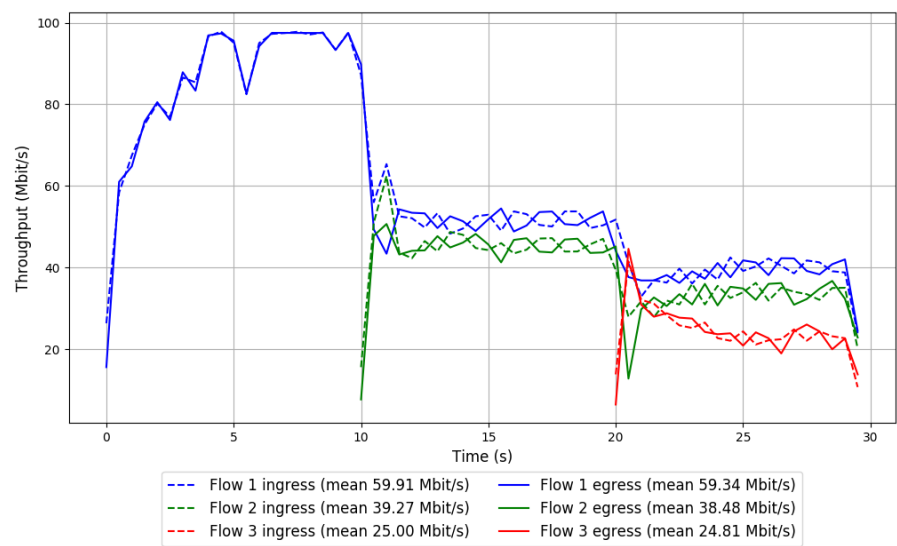
-- Flow 3:

Average throughput: 24.81 Mbit/s

95th percentile per-packet one-way delay: 58.284 ms

Loss rate: 0.73%

Run 10: Report of Indigo-1-32 — Data Link

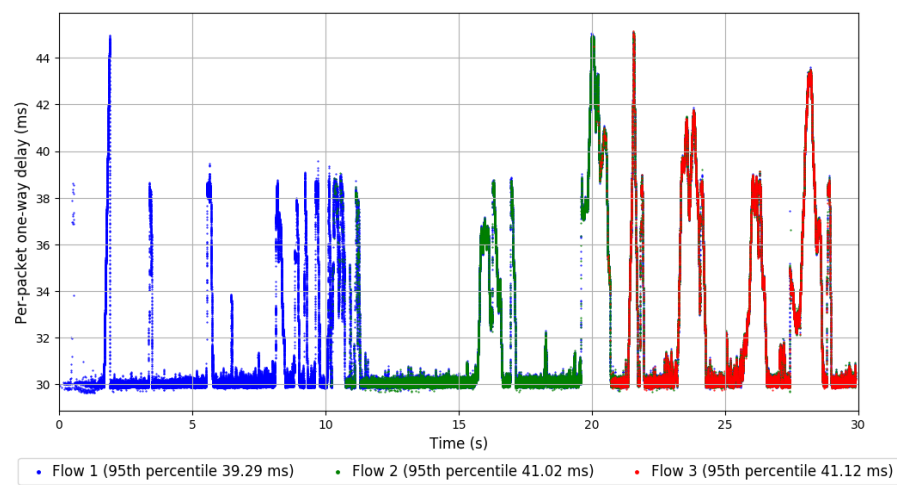
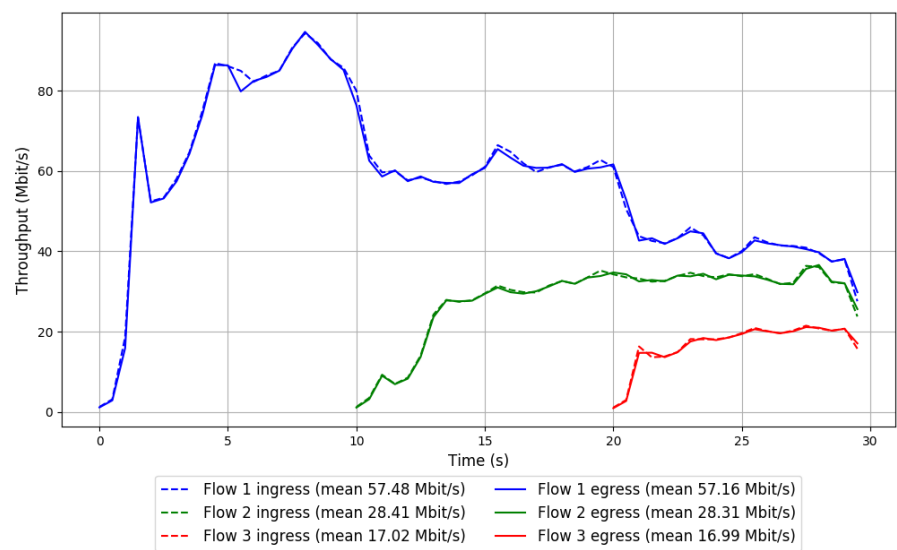


Run 1: Statistics of PCC-Vivace

Start at: 2018-04-17 17:28:16  
End at: 2018-04-17 17:28:46  
Local clock offset: 1.448 ms  
Remote clock offset: -2.489 ms

# Below is generated by plot.py at 2018-04-17 22:27:22  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 81.57 Mbit/s  
95th percentile per-packet one-way delay: 40.005 ms  
Loss rate: 0.50%  
-- Flow 1:  
Average throughput: 57.16 Mbit/s  
95th percentile per-packet one-way delay: 39.291 ms  
Loss rate: 0.57%  
-- Flow 2:  
Average throughput: 28.31 Mbit/s  
95th percentile per-packet one-way delay: 41.017 ms  
Loss rate: 0.36%  
-- Flow 3:  
Average throughput: 16.99 Mbit/s  
95th percentile per-packet one-way delay: 41.116 ms  
Loss rate: 0.34%

Run 1: Report of PCC-Vivace — Data Link

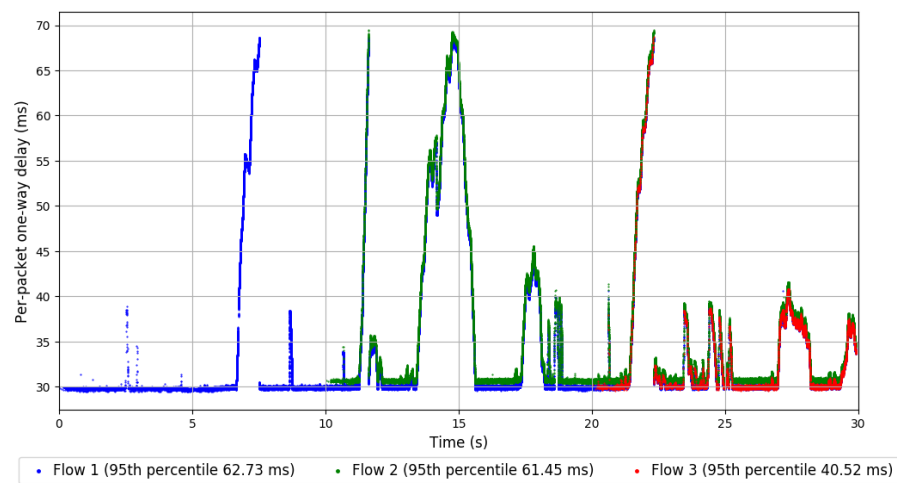
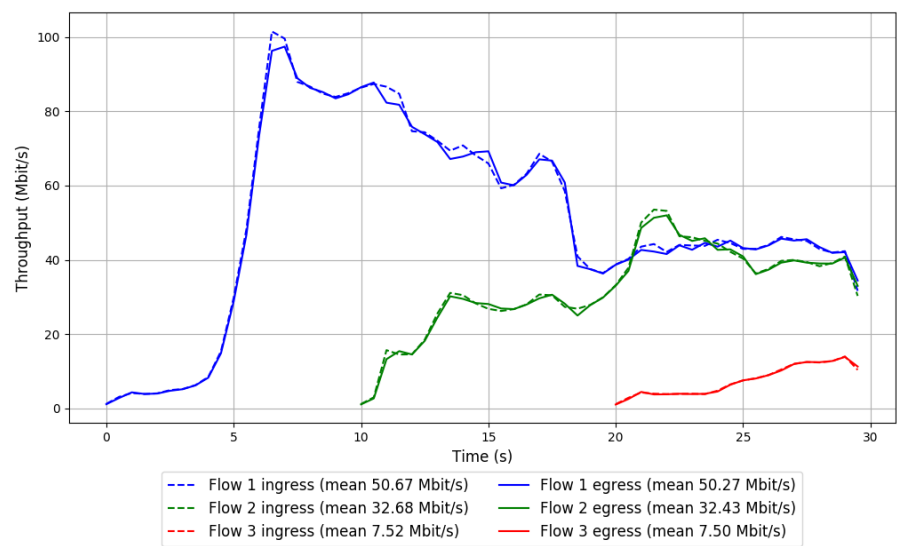


Run 2: Statistics of PCC-Vivace

Start at: 2018-04-17 17:52:57  
End at: 2018-04-17 17:53:27  
Local clock offset: 2.491 ms  
Remote clock offset: -2.581 ms

# Below is generated by plot.py at 2018-04-17 22:27:22  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 74.31 Mbit/s  
95th percentile per-packet one-way delay: 62.010 ms  
Loss rate: 0.75%  
-- Flow 1:  
Average throughput: 50.27 Mbit/s  
95th percentile per-packet one-way delay: 62.731 ms  
Loss rate: 0.78%  
-- Flow 2:  
Average throughput: 32.43 Mbit/s  
95th percentile per-packet one-way delay: 61.451 ms  
Loss rate: 0.73%  
-- Flow 3:  
Average throughput: 7.50 Mbit/s  
95th percentile per-packet one-way delay: 40.516 ms  
Loss rate: 0.22%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2018-04-17 18:16:48

End at: 2018-04-17 18:17:18

Local clock offset: 5.826 ms

Remote clock offset: 8.524 ms

# Below is generated by plot.py at 2018-04-17 22:27:22

# Datalink statistics

-- Total of 3 flows:

Average throughput: 31.09 Mbit/s

95th percentile per-packet one-way delay: 59.325 ms

Loss rate: 0.87%

-- Flow 1:

Average throughput: 11.02 Mbit/s

95th percentile per-packet one-way delay: 51.762 ms

Loss rate: 0.95%

-- Flow 2:

Average throughput: 27.37 Mbit/s

95th percentile per-packet one-way delay: 60.196 ms

Loss rate: 0.83%

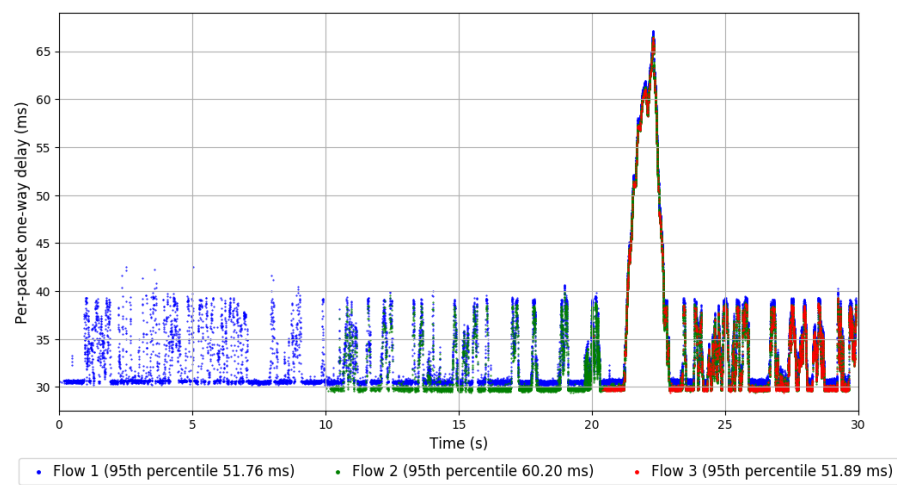
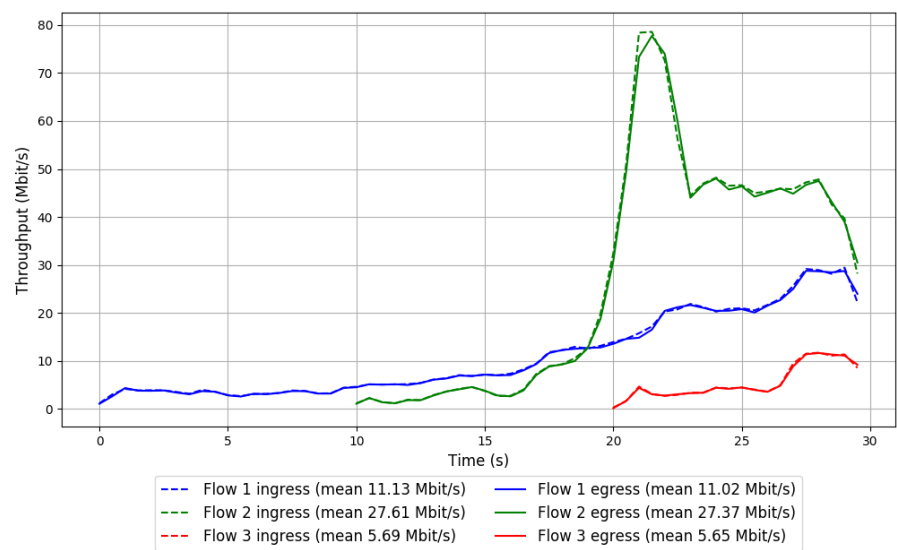
-- Flow 3:

Average throughput: 5.65 Mbit/s

95th percentile per-packet one-way delay: 51.890 ms

Loss rate: 0.76%

Run 3: Report of PCC-Vivace — Data Link

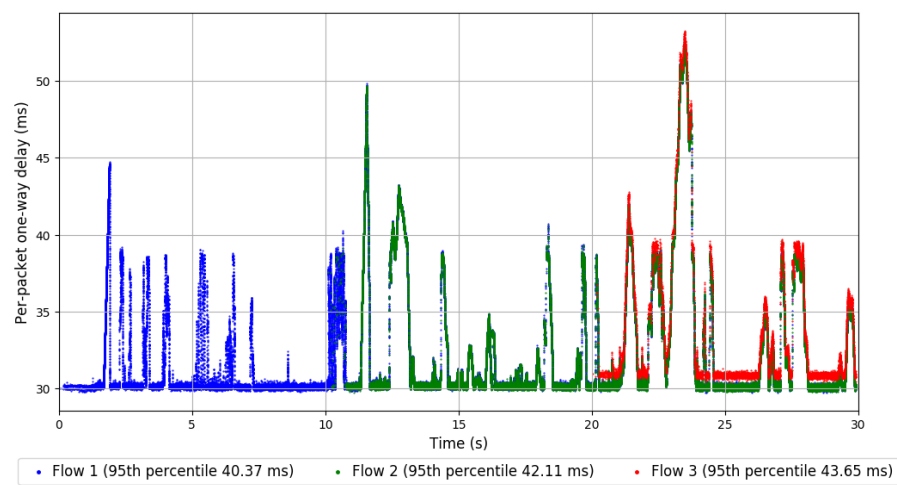
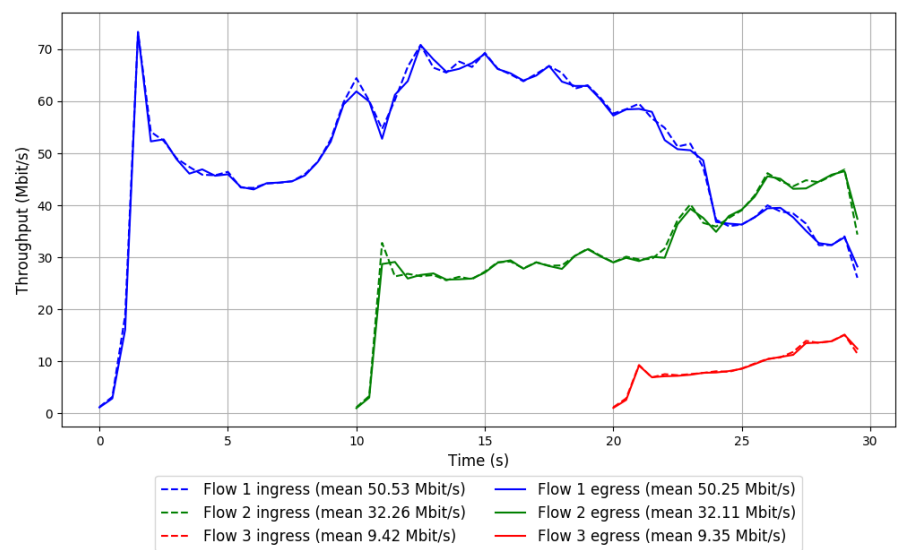


Run 4: Statistics of PCC-Vivace

Start at: 2018-04-17 18:41:06  
End at: 2018-04-17 18:41:36  
Local clock offset: 1.745 ms  
Remote clock offset: 13.689 ms

# Below is generated by plot.py at 2018-04-17 22:27:25  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 74.68 Mbit/s  
95th percentile per-packet one-way delay: 40.949 ms  
Loss rate: 0.53%  
-- Flow 1:  
Average throughput: 50.25 Mbit/s  
95th percentile per-packet one-way delay: 40.371 ms  
Loss rate: 0.54%  
-- Flow 2:  
Average throughput: 32.11 Mbit/s  
95th percentile per-packet one-way delay: 42.114 ms  
Loss rate: 0.47%  
-- Flow 3:  
Average throughput: 9.35 Mbit/s  
95th percentile per-packet one-way delay: 43.654 ms  
Loss rate: 0.77%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2018-04-17 19:05:16

End at: 2018-04-17 19:05:46

Local clock offset: -1.048 ms

Remote clock offset: 15.91 ms

# Below is generated by plot.py at 2018-04-17 22:27:25

# Datalink statistics

-- Total of 3 flows:

Average throughput: 50.62 Mbit/s

95th percentile per-packet one-way delay: 38.400 ms

Loss rate: 0.73%

-- Flow 1:

Average throughput: 40.26 Mbit/s

95th percentile per-packet one-way delay: 38.409 ms

Loss rate: 0.71%

-- Flow 2:

Average throughput: 13.64 Mbit/s

95th percentile per-packet one-way delay: 38.346 ms

Loss rate: 0.77%

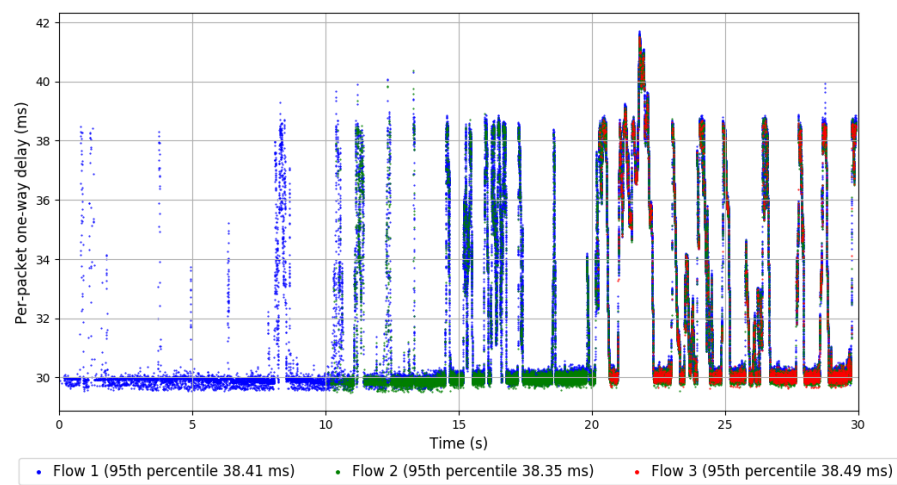
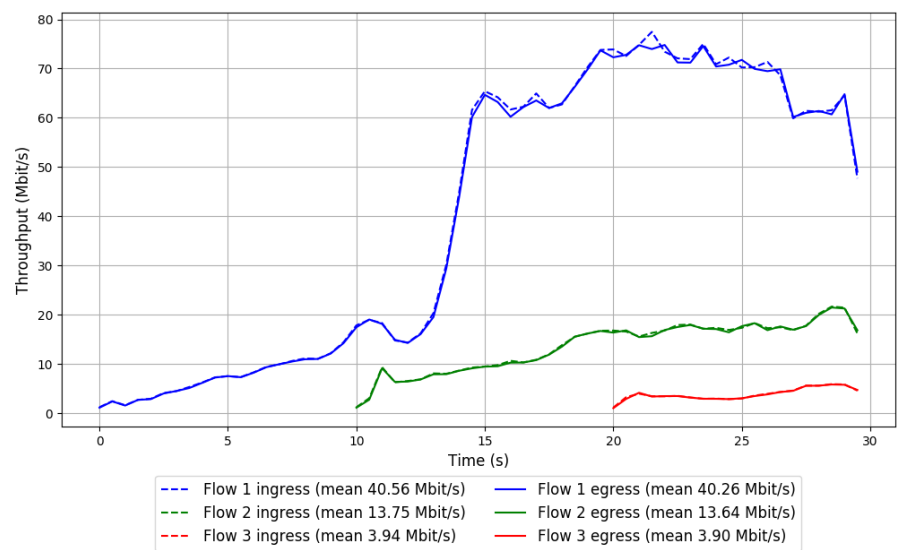
-- Flow 3:

Average throughput: 3.90 Mbit/s

95th percentile per-packet one-way delay: 38.488 ms

Loss rate: 0.90%

Run 5: Report of PCC-Vivace — Data Link

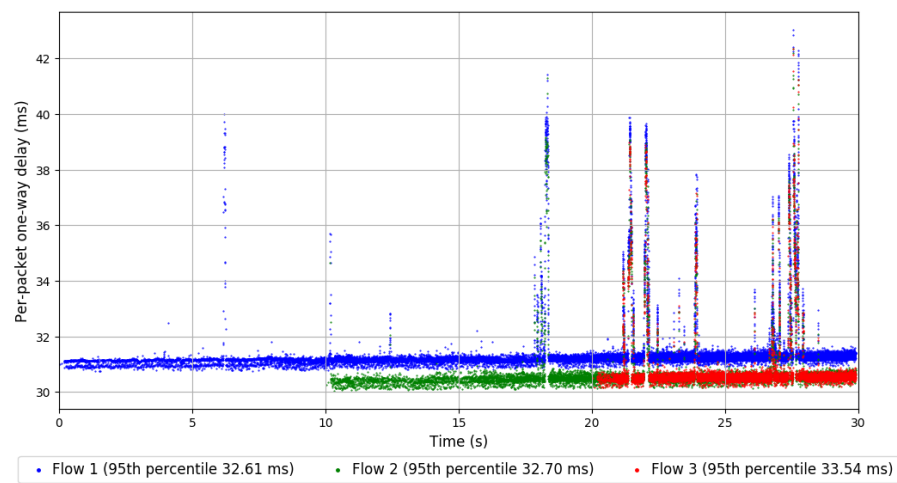
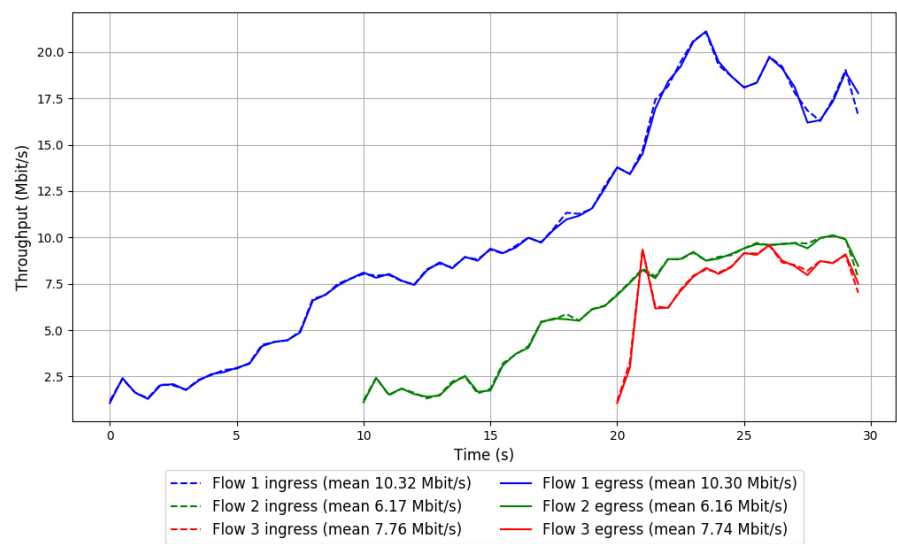


Run 6: Statistics of PCC-Vivace

Start at: 2018-04-17 19:29:33  
End at: 2018-04-17 19:30:03  
Local clock offset: 0.808 ms  
Remote clock offset: -4.723 ms

# Below is generated by plot.py at 2018-04-17 22:27:25  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 16.95 Mbit/s  
95th percentile per-packet one-way delay: 32.794 ms  
Loss rate: 0.21%  
-- Flow 1:  
Average throughput: 10.30 Mbit/s  
95th percentile per-packet one-way delay: 32.612 ms  
Loss rate: 0.20%  
-- Flow 2:  
Average throughput: 6.16 Mbit/s  
95th percentile per-packet one-way delay: 32.704 ms  
Loss rate: 0.24%  
-- Flow 3:  
Average throughput: 7.74 Mbit/s  
95th percentile per-packet one-way delay: 33.542 ms  
Loss rate: 0.23%

Run 6: Report of PCC-Vivace — Data Link

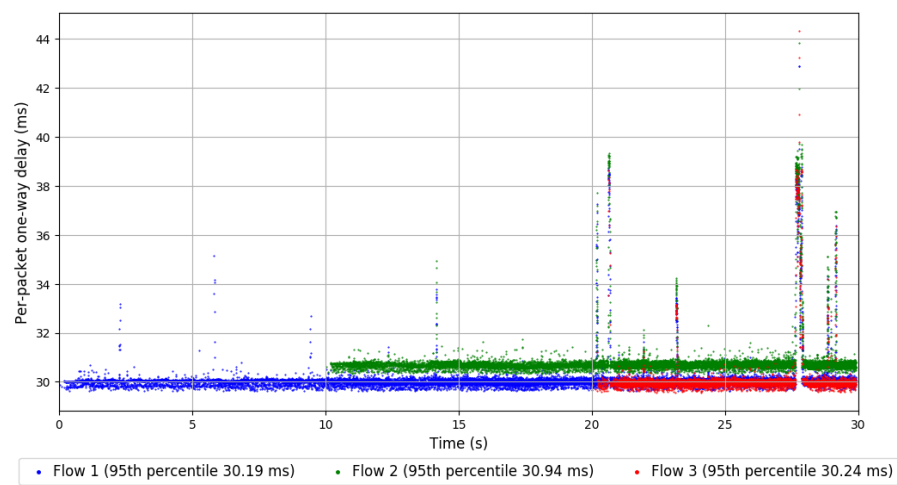
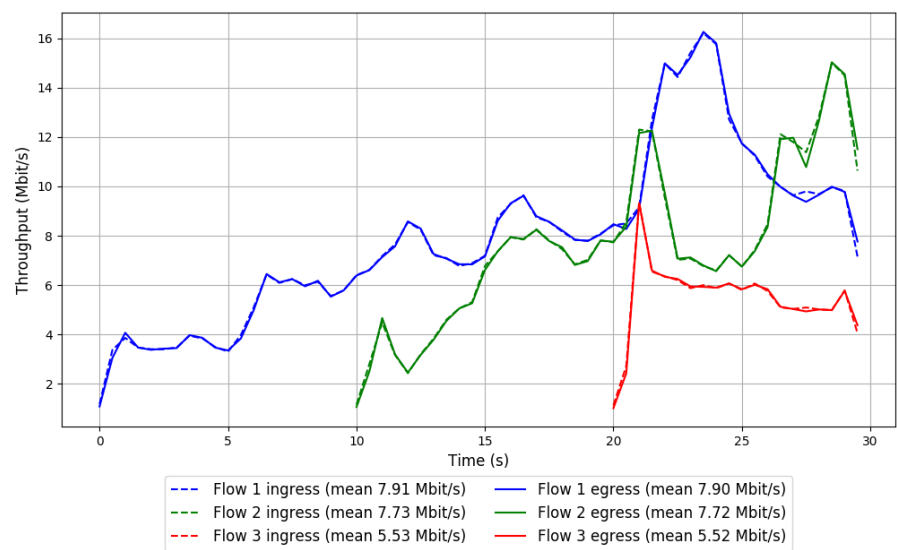


Run 7: Statistics of PCC-Vivace

Start at: 2018-04-17 19:57:57  
End at: 2018-04-17 19:58:27  
Local clock offset: -0.168 ms  
Remote clock offset: -9.092 ms

# Below is generated by plot.py at 2018-04-17 22:27:25  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 14.85 Mbit/s  
95th percentile per-packet one-way delay: 30.834 ms  
Loss rate: 0.14%  
-- Flow 1:  
Average throughput: 7.90 Mbit/s  
95th percentile per-packet one-way delay: 30.190 ms  
Loss rate: 0.13%  
-- Flow 2:  
Average throughput: 7.72 Mbit/s  
95th percentile per-packet one-way delay: 30.940 ms  
Loss rate: 0.17%  
-- Flow 3:  
Average throughput: 5.52 Mbit/s  
95th percentile per-packet one-way delay: 30.244 ms  
Loss rate: 0.15%

Run 7: Report of PCC-Vivace — Data Link

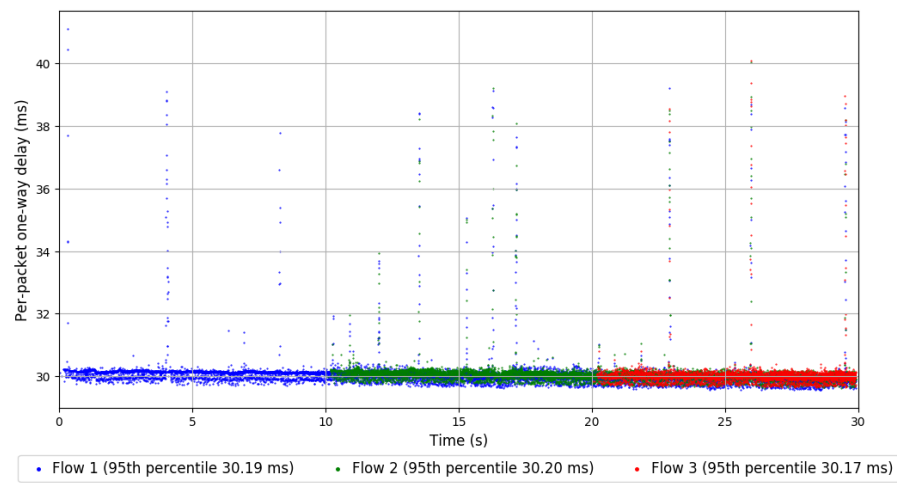
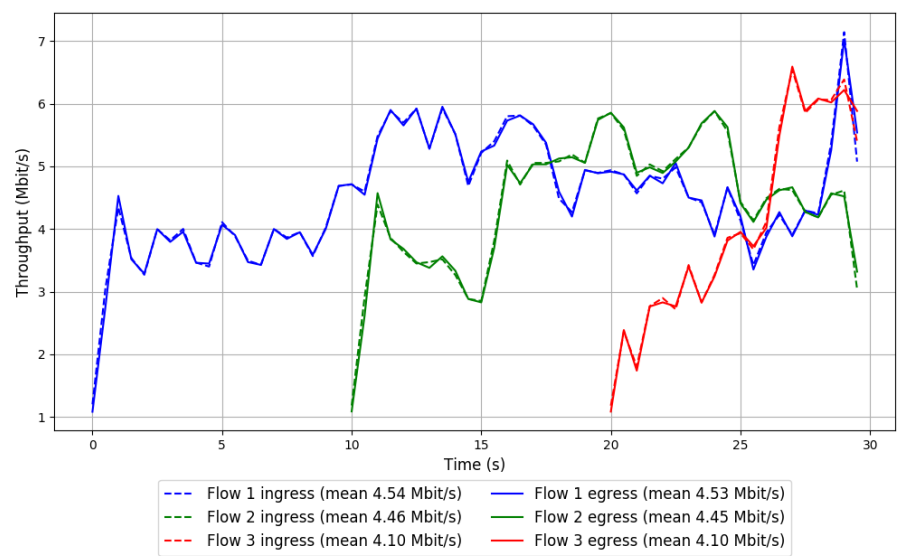


Run 8: Statistics of PCC-Vivace

Start at: 2018-04-17 20:26:55  
End at: 2018-04-17 20:27:25  
Local clock offset: -0.192 ms  
Remote clock offset: -4.701 ms

# Below is generated by plot.py at 2018-04-17 22:27:25  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 8.84 Mbit/s  
95th percentile per-packet one-way delay: 30.194 ms  
Loss rate: 0.08%  
-- Flow 1:  
Average throughput: 4.53 Mbit/s  
95th percentile per-packet one-way delay: 30.192 ms  
Loss rate: 0.07%  
-- Flow 2:  
Average throughput: 4.45 Mbit/s  
95th percentile per-packet one-way delay: 30.204 ms  
Loss rate: 0.09%  
-- Flow 3:  
Average throughput: 4.10 Mbit/s  
95th percentile per-packet one-way delay: 30.170 ms  
Loss rate: 0.06%

Run 8: Report of PCC-Vivace — Data Link



Run 9: Statistics of PCC-Vivace

Start at: 2018-04-17 20:55:48

End at: 2018-04-17 20:56:18

Local clock offset: -0.043 ms

Remote clock offset: 0.281 ms

# Below is generated by plot.py at 2018-04-17 22:27:25

# Datalink statistics

-- Total of 3 flows:

Average throughput: 26.08 Mbit/s

95th percentile per-packet one-way delay: 30.421 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 8.19 Mbit/s

95th percentile per-packet one-way delay: 30.457 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 17.70 Mbit/s

95th percentile per-packet one-way delay: 29.684 ms

Loss rate: 0.00%

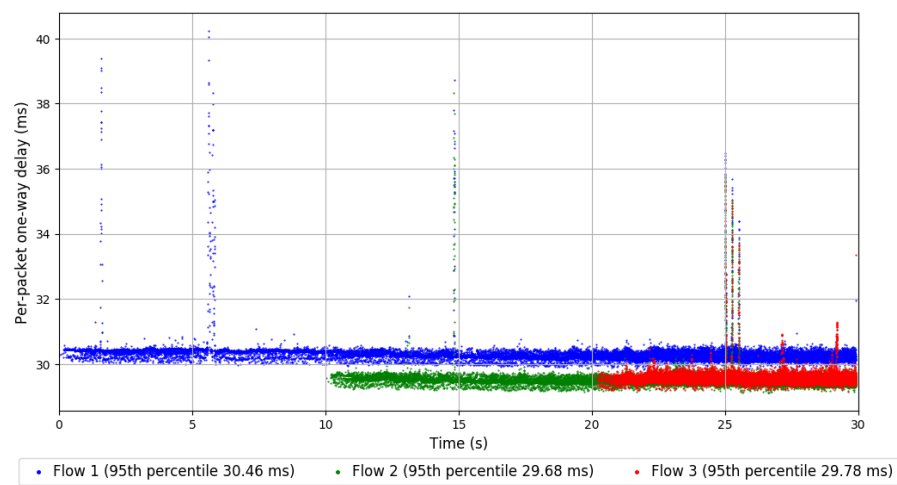
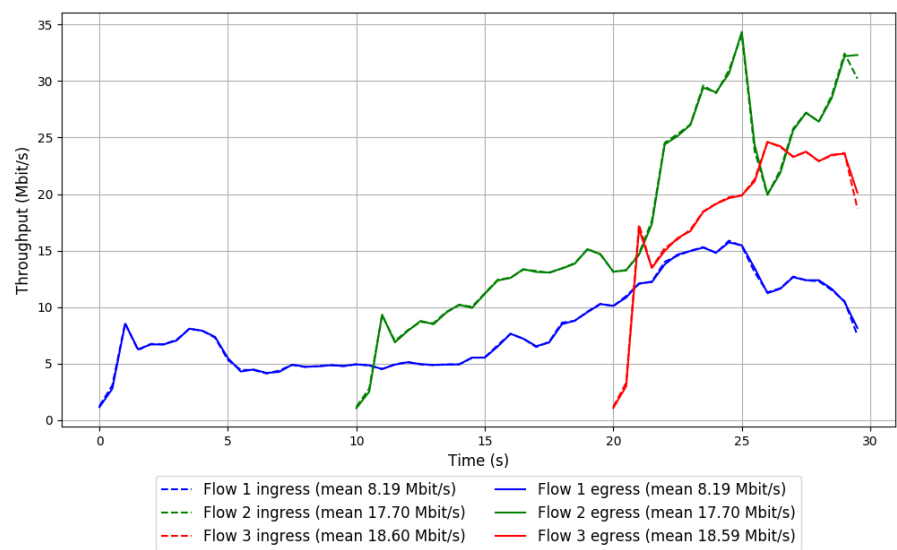
-- Flow 3:

Average throughput: 18.59 Mbit/s

95th percentile per-packet one-way delay: 29.780 ms

Loss rate: 0.00%

Run 9: Report of PCC-Vivace — Data Link



Run 10: Statistics of PCC-Vivace

Start at: 2018-04-17 21:23:08

End at: 2018-04-17 21:23:38

Local clock offset: 0.167 ms

Remote clock offset: 7.001 ms

# Below is generated by plot.py at 2018-04-17 22:27:25

# Datalink statistics

-- Total of 3 flows:

Average throughput: 11.53 Mbit/s

95th percentile per-packet one-way delay: 31.093 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 5.77 Mbit/s

95th percentile per-packet one-way delay: 31.088 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 5.66 Mbit/s

95th percentile per-packet one-way delay: 31.106 ms

Loss rate: 0.00%

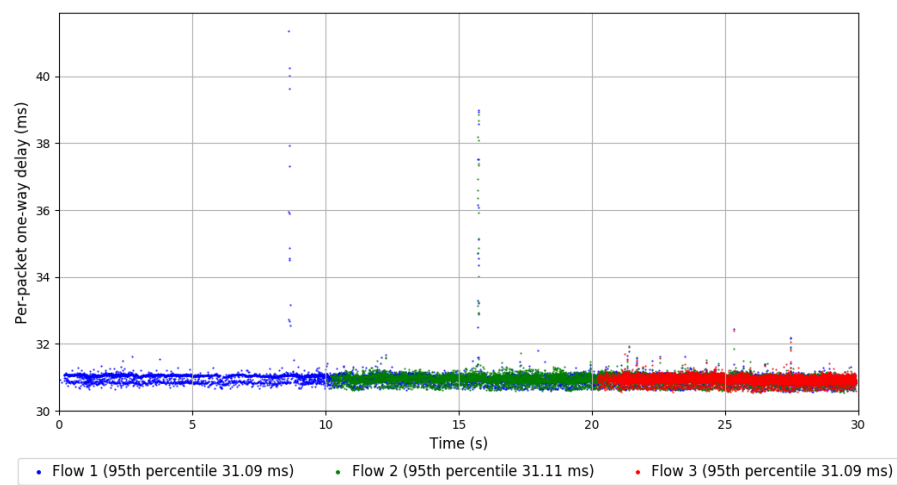
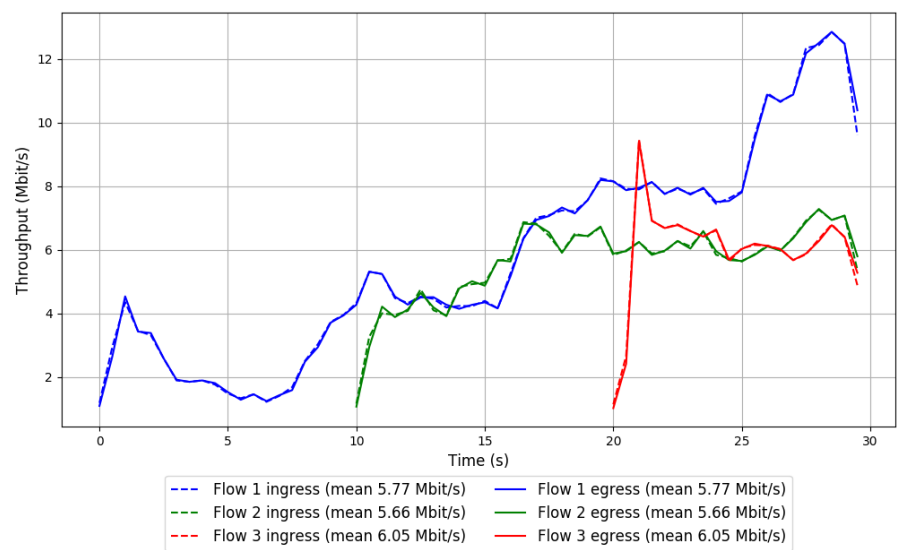
-- Flow 3:

Average throughput: 6.05 Mbit/s

95th percentile per-packet one-way delay: 31.085 ms

Loss rate: 0.00%

Run 10: Report of PCC-Vivace — Data Link



Run 1: Statistics of PCC-Expr

Start at: 2018-04-17 17:48:53

End at: 2018-04-17 17:49:23

Local clock offset: 2.319 ms

Remote clock offset: -1.986 ms

Run 1: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 2: Statistics of PCC-Expr

Start at: 2018-04-17 18:12:48

End at: 2018-04-17 18:13:18

Local clock offset: 5.449 ms

Remote clock offset: 6.669 ms

Run 2: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 3: Statistics of PCC-Expr

Start at: 2018-04-17 18:37:01

End at: 2018-04-17 18:37:31

Local clock offset: 3.313 ms

Remote clock offset: 12.672 ms

Run 3: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 4: Statistics of PCC-Expr

Start at: 2018-04-17 19:01:15

End at: 2018-04-17 19:01:45

Local clock offset: -0.819 ms

Remote clock offset: 15.904 ms

Run 4: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 5: Statistics of PCC-Expr

Start at: 2018-04-17 19:25:17

End at: 2018-04-17 19:25:47

Local clock offset: 0.701 ms

Remote clock offset: -2.494 ms

Run 5: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 6: Statistics of PCC-Expr

Start at: 2018-04-17 19:53:46

End at: 2018-04-17 19:54:16

Local clock offset: -0.052 ms

Remote clock offset: -8.996 ms

Run 6: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 7: Statistics of PCC-Expr

Start at: 2018-04-17 20:22:31

End at: 2018-04-17 20:23:01

Local clock offset: -0.235 ms

Remote clock offset: -8.104 ms

Run 7: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 8: Statistics of PCC-Expr

Start at: 2018-04-17 20:51:20

End at: 2018-04-17 20:51:51

Local clock offset: -0.282 ms

Remote clock offset: -0.923 ms

Run 8: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 9: Statistics of PCC-Expr

Start at: 2018-04-17 21:18:47

End at: 2018-04-17 21:19:17

Local clock offset: 0.208 ms

Remote clock offset: 5.99 ms

Run 9: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 10: Statistics of PCC-Expr

Start at: 2018-04-17 21:43:37

End at: 2018-04-17 21:44:07

Local clock offset: -0.334 ms

Remote clock offset: -1.727 ms

Run 10: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing