

## Pantheon Report

Generated at 2018-04-17 22:04:58 (UTC).

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

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**).

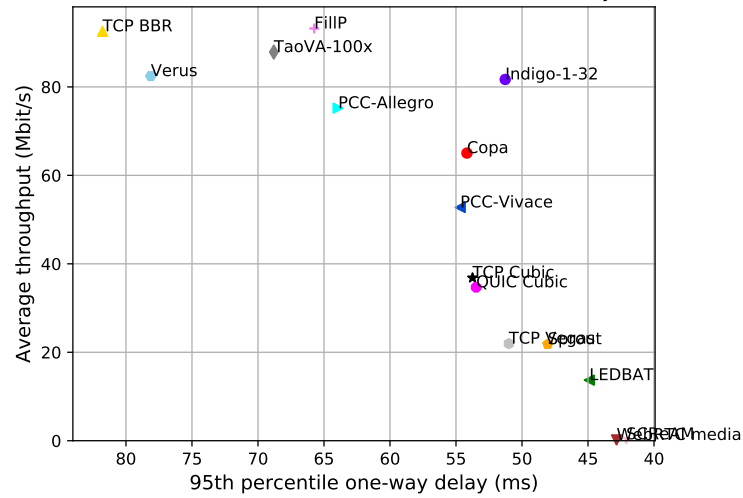
NTP offsets were measured against `time.stanford.edu` and have been applied to correct the timestamps in logs.

Git summary:

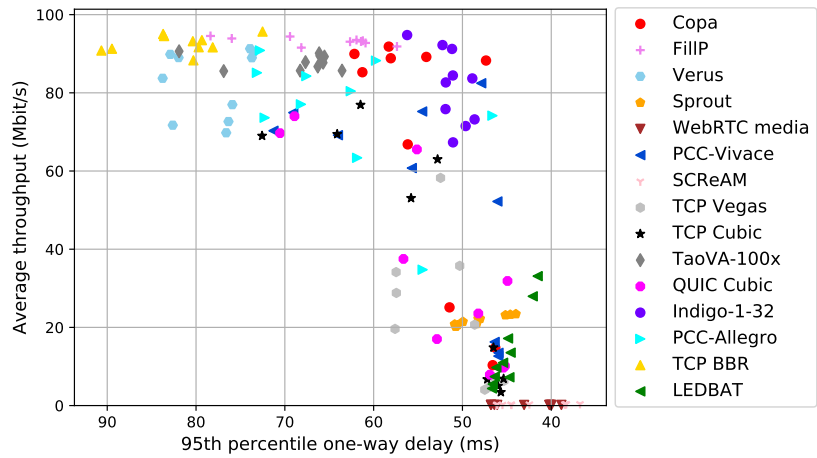
```
branch: master @ b3d6e7098641364fd3a292656a51aa81e316d0b4
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ 11f8c46a2bf1dc797253db7e8ca04076272b2a44
third_party/genericCC @ d223989828276fa83a807da6e0341dc0c7b89aec
third_party/indigo @ 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 Mexico Ethernet to AWS California 2 Ethernet, 10 runs of 30s each per scheme  
3 flows with 10s interval between flows (mean of all runs by scheme)



test from Mexico Ethernet to AWS California 2 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 13:15:37

End at: 2018-04-17 13:16:07

Local clock offset: -0.289 ms

Remote clock offset: -1.54 ms

# Below is generated by plot.py at 2018-04-17 21:48:08

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.05 Mbit/s

95th percentile per-packet one-way delay: 83.703 ms

Loss rate: 0.63%

-- Flow 1:

Average throughput: 55.52 Mbit/s

95th percentile per-packet one-way delay: 82.977 ms

Loss rate: 0.42%

-- Flow 2:

Average throughput: 36.09 Mbit/s

95th percentile per-packet one-way delay: 85.581 ms

Loss rate: 0.69%

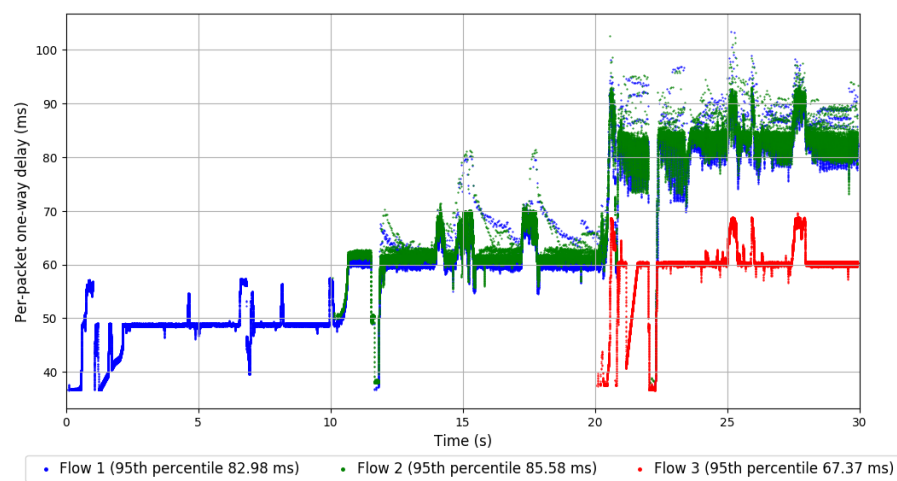
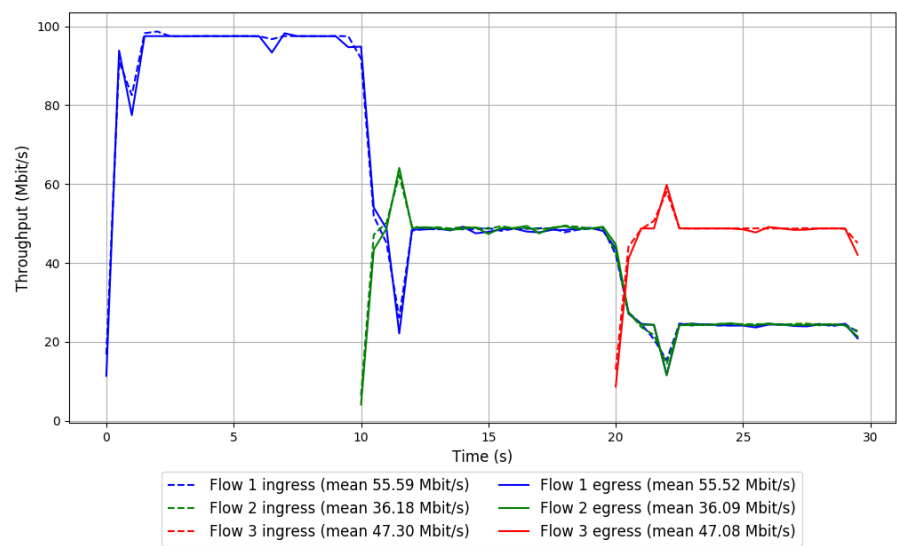
-- Flow 3:

Average throughput: 47.08 Mbit/s

95th percentile per-packet one-way delay: 67.370 ms

Loss rate: 1.26%

Run 1: Report of TCP BBR — Data Link

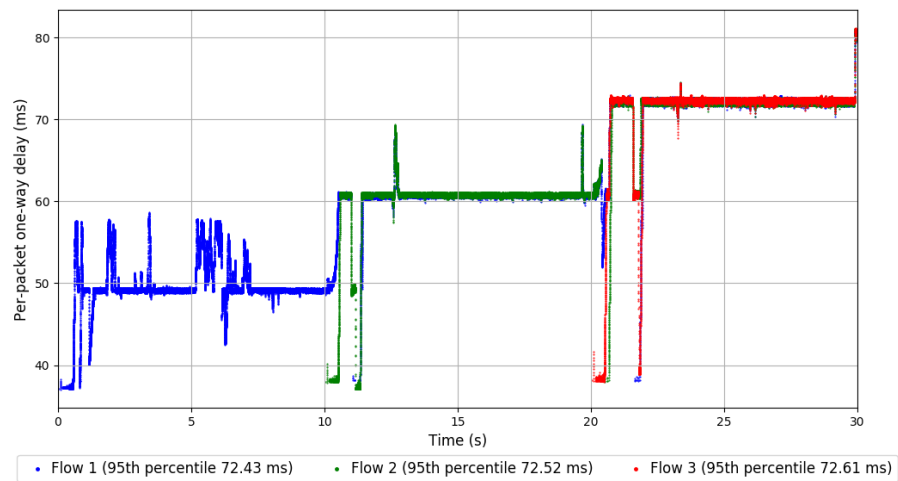
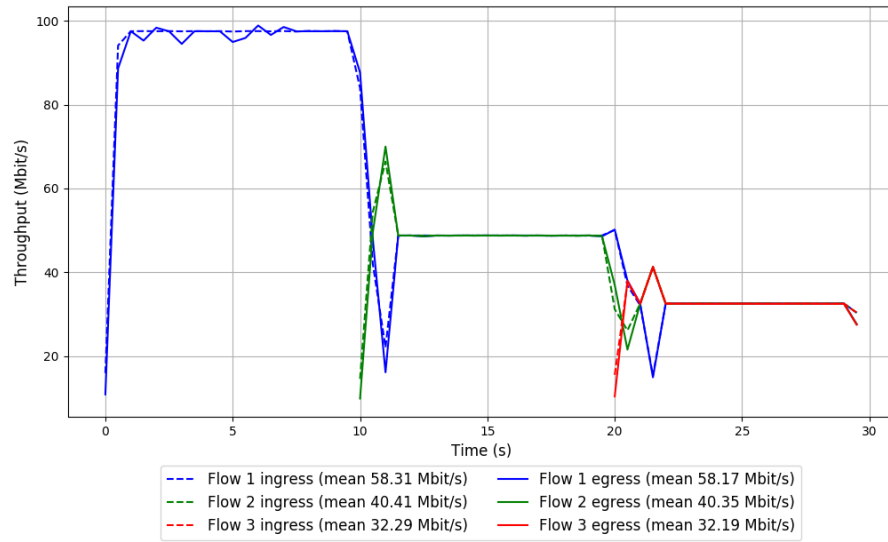


Run 2: Statistics of TCP BBR

Start at: 2018-04-17 13:39:36  
End at: 2018-04-17 13:40:06  
Local clock offset: 2.714 ms  
Remote clock offset: -2.384 ms

# Below is generated by plot.py at 2018-04-17 21:48:08  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 95.67 Mbit/s  
95th percentile per-packet one-way delay: 72.509 ms  
Loss rate: 0.54%  
-- Flow 1:  
Average throughput: 58.17 Mbit/s  
95th percentile per-packet one-way delay: 72.427 ms  
Loss rate: 0.46%  
-- Flow 2:  
Average throughput: 40.35 Mbit/s  
95th percentile per-packet one-way delay: 72.515 ms  
Loss rate: 0.48%  
-- Flow 3:  
Average throughput: 32.19 Mbit/s  
95th percentile per-packet one-way delay: 72.607 ms  
Loss rate: 1.17%

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

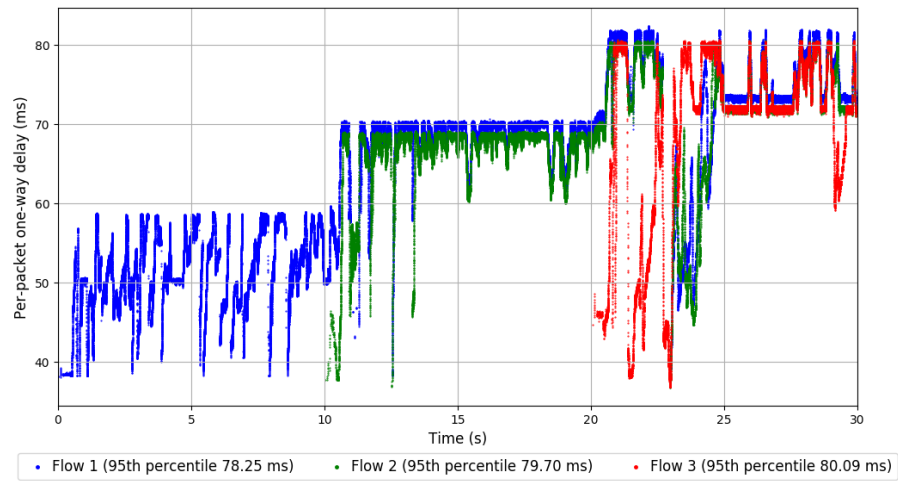
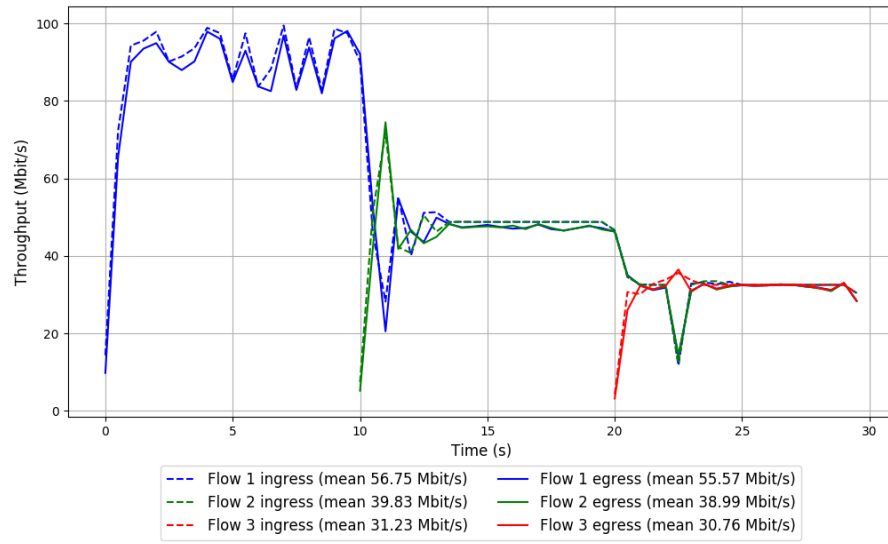


Run 3: Statistics of TCP BBR

Start at: 2018-04-17 14:03:11  
End at: 2018-04-17 14:03:41  
Local clock offset: 6.177 ms  
Remote clock offset: -2.463 ms

# Below is generated by plot.py at 2018-04-17 21:48:08  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 91.67 Mbit/s  
95th percentile per-packet one-way delay: 79.702 ms  
Loss rate: 2.33%  
-- Flow 1:  
Average throughput: 55.57 Mbit/s  
95th percentile per-packet one-way delay: 78.251 ms  
Loss rate: 2.29%  
-- Flow 2:  
Average throughput: 38.99 Mbit/s  
95th percentile per-packet one-way delay: 79.700 ms  
Loss rate: 2.44%  
-- Flow 3:  
Average throughput: 30.76 Mbit/s  
95th percentile per-packet one-way delay: 80.095 ms  
Loss rate: 2.24%

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

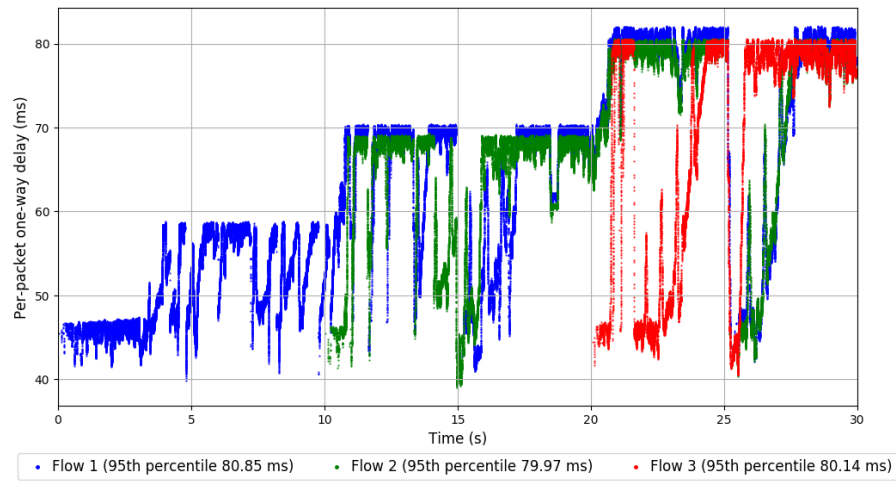
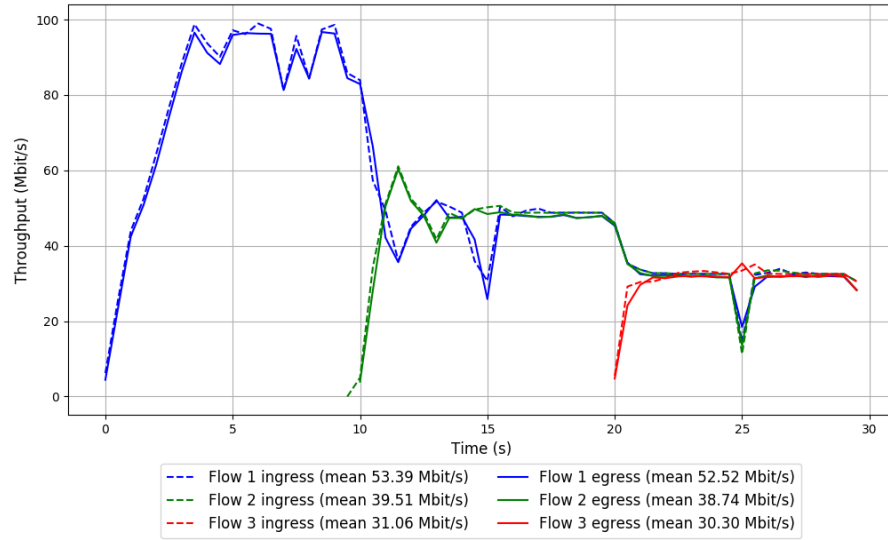


Run 4: Statistics of TCP BBR

Start at: 2018-04-17 14:30:25  
End at: 2018-04-17 14:30:55  
Local clock offset: 11.815 ms  
Remote clock offset: -1.139 ms

# Below is generated by plot.py at 2018-04-17 21:48:08  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 88.32 Mbit/s  
95th percentile per-packet one-way delay: 80.296 ms  
Loss rate: 2.18%  
-- Flow 1:  
Average throughput: 52.52 Mbit/s  
95th percentile per-packet one-way delay: 80.850 ms  
Loss rate: 1.93%  
-- Flow 2:  
Average throughput: 38.74 Mbit/s  
95th percentile per-packet one-way delay: 79.975 ms  
Loss rate: 2.32%  
-- Flow 3:  
Average throughput: 30.30 Mbit/s  
95th percentile per-packet one-way delay: 80.140 ms  
Loss rate: 3.16%

# Run 4: Report of TCP BBR — Data Link





Run 5: Statistics of TCP BBR

Start at: 2018-04-17 14:58:15

End at: 2018-04-17 14:58:45

Local clock offset: -0.284 ms

Remote clock offset: 0.262 ms

# Below is generated by plot.py at 2018-04-17 21:48:08

# Datalink statistics

-- Total of 3 flows:

Average throughput: 93.48 Mbit/s

95th percentile per-packet one-way delay: 79.340 ms

Loss rate: 1.09%

-- Flow 1:

Average throughput: 56.85 Mbit/s

95th percentile per-packet one-way delay: 78.447 ms

Loss rate: 0.96%

-- Flow 2:

Average throughput: 39.75 Mbit/s

95th percentile per-packet one-way delay: 79.980 ms

Loss rate: 1.16%

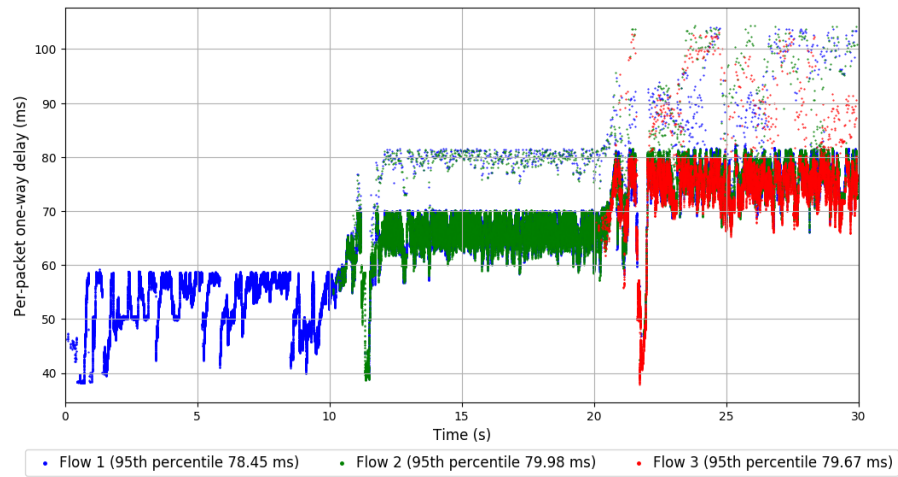
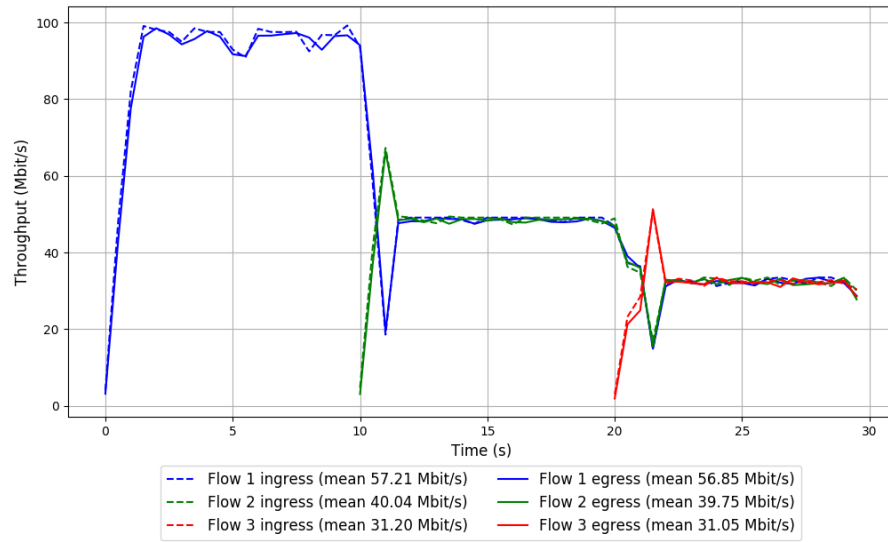
-- Flow 3:

Average throughput: 31.05 Mbit/s

95th percentile per-packet one-way delay: 79.672 ms

Loss rate: 1.70%

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

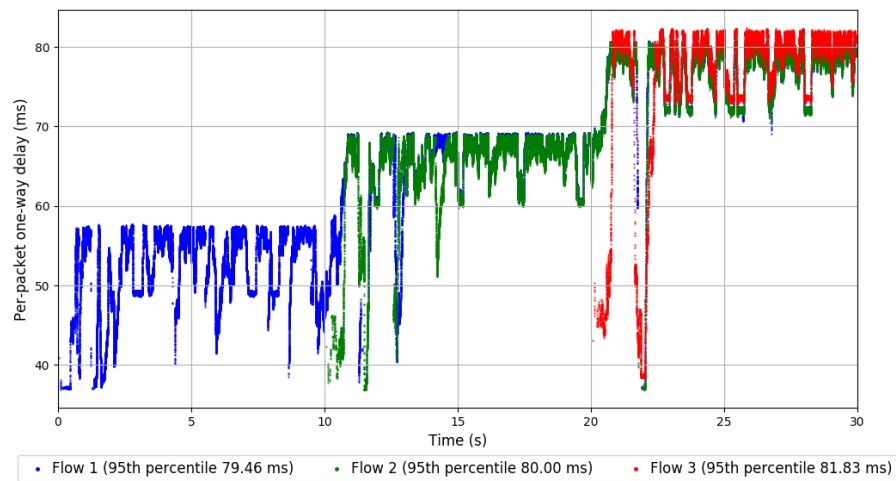
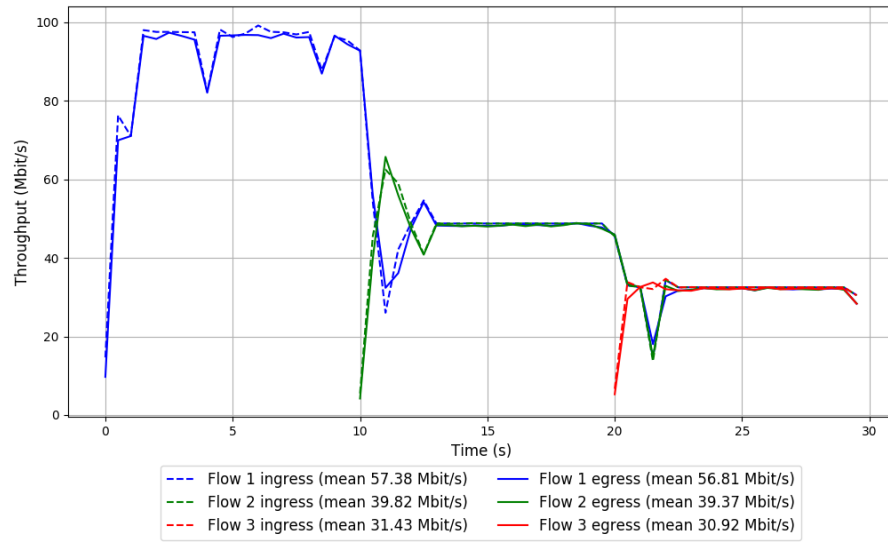


Run 6: Statistics of TCP BBR

Start at: 2018-04-17 15:26:20  
End at: 2018-04-17 15:26:50  
Local clock offset: -1.844 ms  
Remote clock offset: -5.494 ms

# Below is generated by plot.py at 2018-04-17 21:48:08  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.21 Mbit/s  
95th percentile per-packet one-way delay: 80.357 ms  
Loss rate: 1.42%  
-- Flow 1:  
Average throughput: 56.81 Mbit/s  
95th percentile per-packet one-way delay: 79.462 ms  
Loss rate: 1.23%  
-- Flow 2:  
Average throughput: 39.37 Mbit/s  
95th percentile per-packet one-way delay: 80.002 ms  
Loss rate: 1.49%  
-- Flow 3:  
Average throughput: 30.92 Mbit/s  
95th percentile per-packet one-way delay: 81.826 ms  
Loss rate: 2.36%

# Run 6: Report of TCP BBR — Data Link

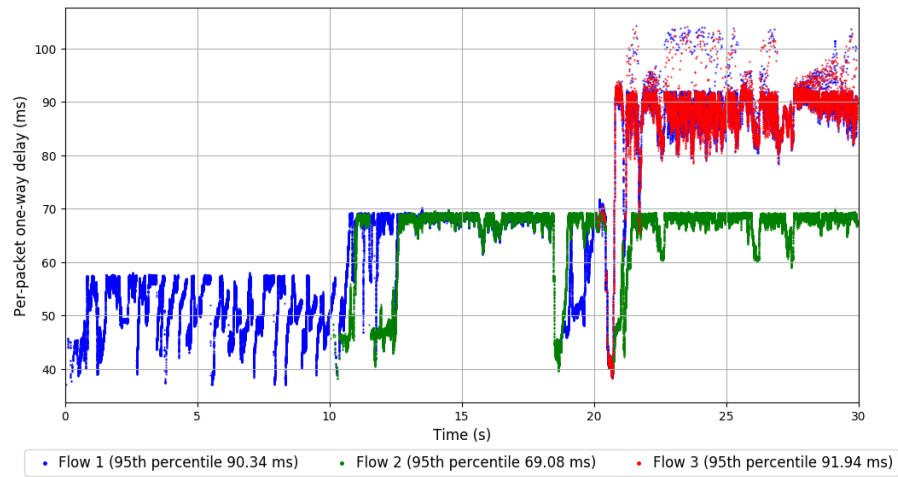
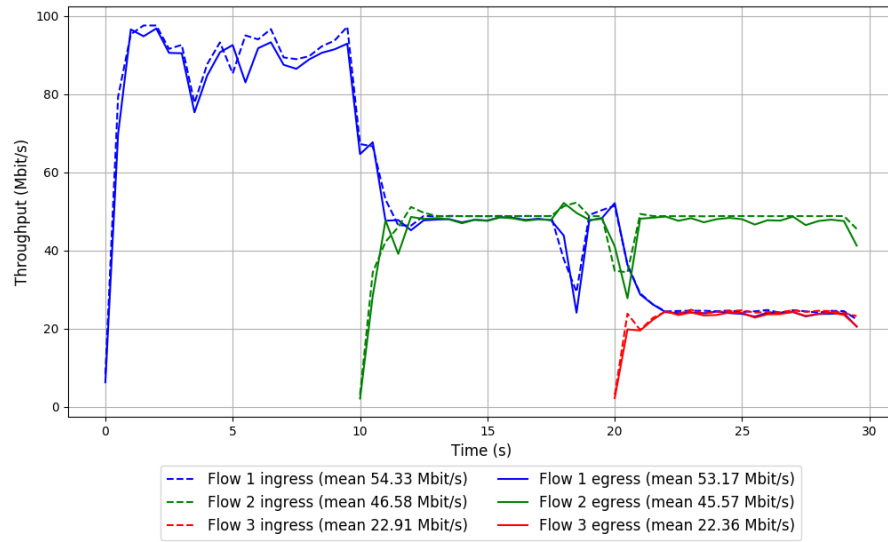


Run 7: Statistics of TCP BBR

Start at: 2018-04-17 15:53:52  
End at: 2018-04-17 15:54:22  
Local clock offset: -0.522 ms  
Remote clock offset: -6.759 ms

# Below is generated by plot.py at 2018-04-17 21:48:08  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 90.82 Mbit/s  
95th percentile per-packet one-way delay: 90.656 ms  
Loss rate: 2.55%  
-- Flow 1:  
Average throughput: 53.17 Mbit/s  
95th percentile per-packet one-way delay: 90.344 ms  
Loss rate: 2.41%  
-- Flow 2:  
Average throughput: 45.57 Mbit/s  
95th percentile per-packet one-way delay: 69.078 ms  
Loss rate: 2.54%  
-- Flow 3:  
Average throughput: 22.36 Mbit/s  
95th percentile per-packet one-way delay: 91.939 ms  
Loss rate: 3.63%

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

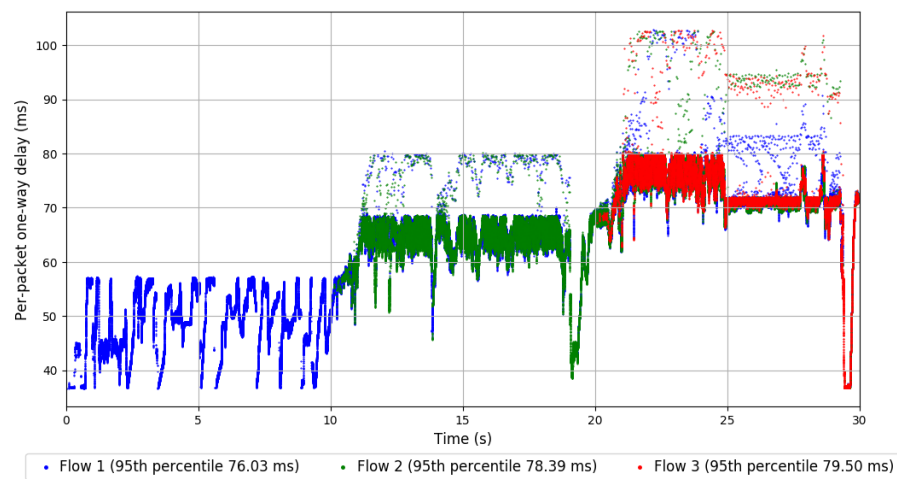
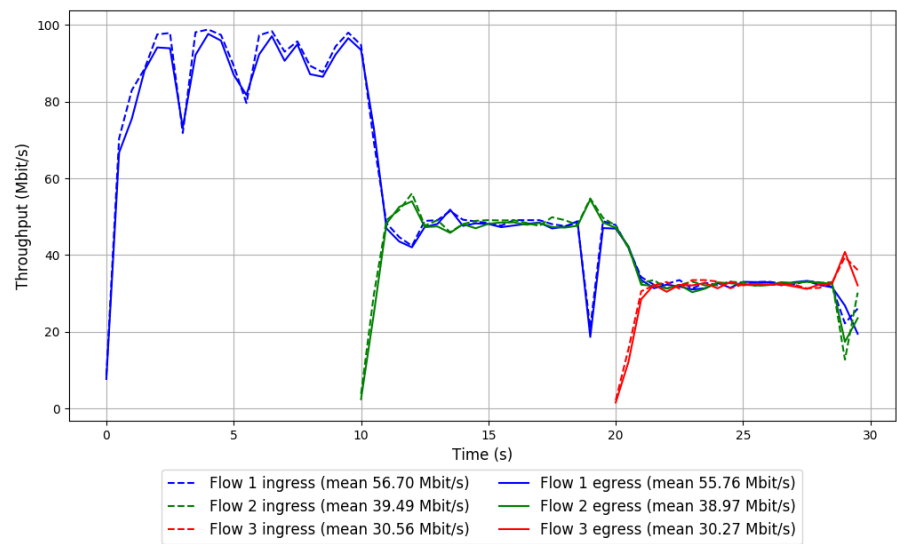


Run 8: Statistics of TCP BBR

Start at: 2018-04-17 16:22:42  
End at: 2018-04-17 16:23:12  
Local clock offset: -0.128 ms  
Remote clock offset: -5.053 ms

# Below is generated by plot.py at 2018-04-17 21:48:08  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 91.64 Mbit/s  
95th percentile per-packet one-way delay: 78.124 ms  
Loss rate: 1.91%  
-- Flow 1:  
Average throughput: 55.76 Mbit/s  
95th percentile per-packet one-way delay: 76.031 ms  
Loss rate: 1.94%  
-- Flow 2:  
Average throughput: 38.97 Mbit/s  
95th percentile per-packet one-way delay: 78.388 ms  
Loss rate: 1.80%  
-- Flow 3:  
Average throughput: 30.27 Mbit/s  
95th percentile per-packet one-way delay: 79.495 ms  
Loss rate: 2.08%

Run 8: Report of TCP BBR — Data Link



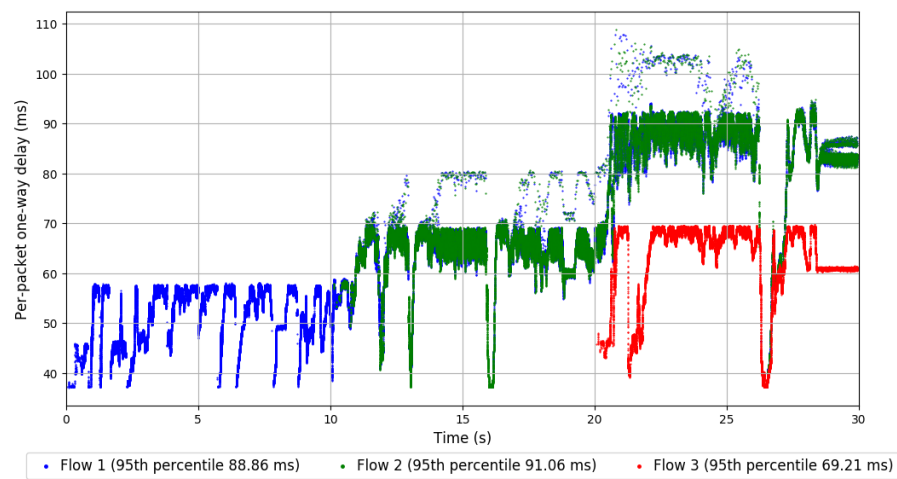
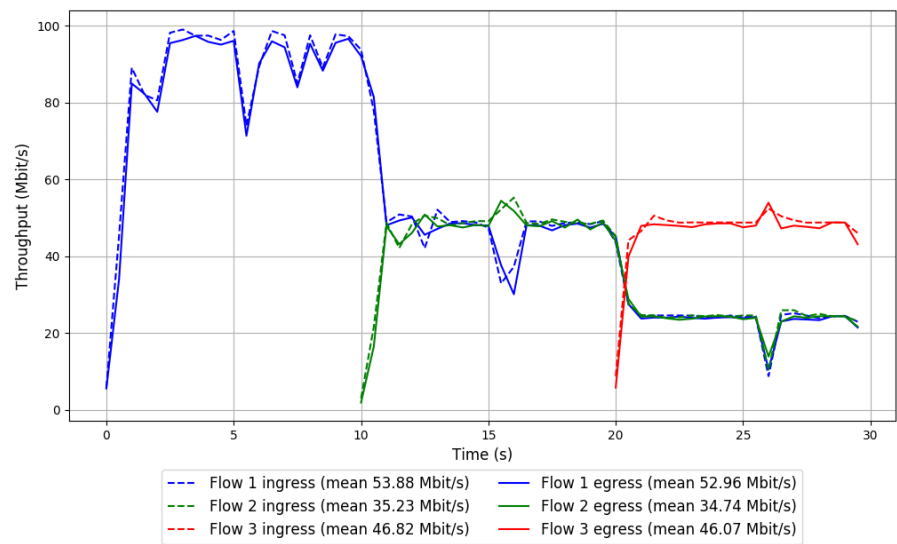


Run 9: Statistics of TCP BBR

Start at: 2018-04-17 16:48:04  
End at: 2018-04-17 16:48:34  
Local clock offset: -0.134 ms  
Remote clock offset: -1.614 ms

# Below is generated by plot.py at 2018-04-17 21:49:33  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 91.28 Mbit/s  
95th percentile per-packet one-way delay: 89.471 ms  
Loss rate: 2.00%  
-- Flow 1:  
Average throughput: 52.96 Mbit/s  
95th percentile per-packet one-way delay: 88.863 ms  
Loss rate: 1.92%  
-- Flow 2:  
Average throughput: 34.74 Mbit/s  
95th percentile per-packet one-way delay: 91.055 ms  
Loss rate: 1.89%  
-- Flow 3:  
Average throughput: 46.07 Mbit/s  
95th percentile per-packet one-way delay: 69.212 ms  
Loss rate: 2.45%

Run 9: Report of TCP BBR — Data Link

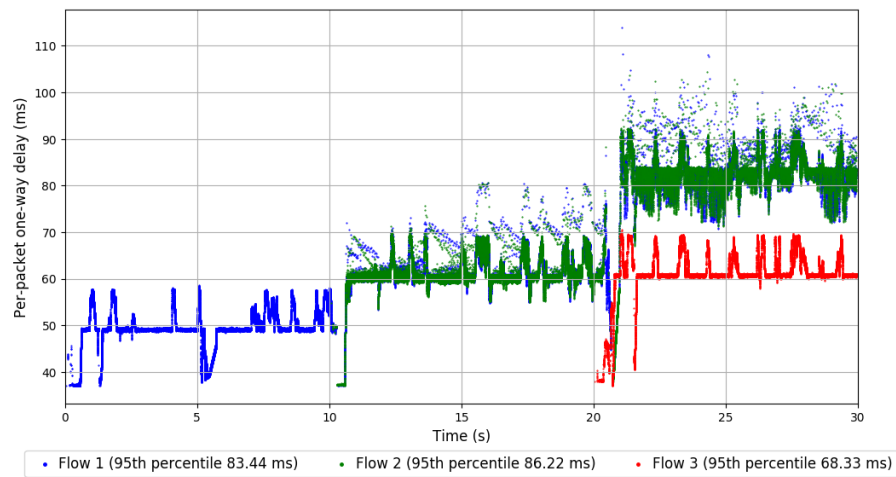
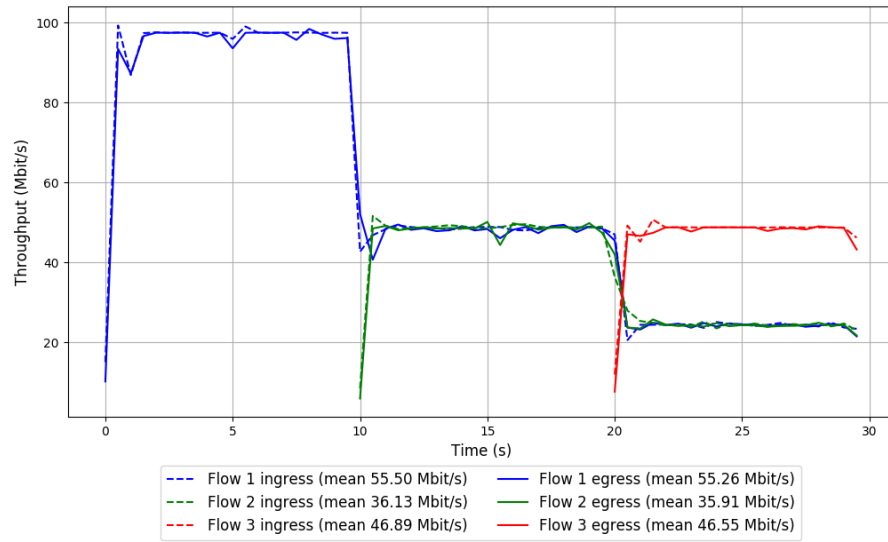


Run 10: Statistics of TCP BBR

Start at: 2018-04-17 17:12:45  
End at: 2018-04-17 17:13:15  
Local clock offset: 0.917 ms  
Remote clock offset: -2.659 ms

# Below is generated by plot.py at 2018-04-17 21:49:39  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 94.53 Mbit/s  
95th percentile per-packet one-way delay: 83.599 ms  
Loss rate: 0.94%  
-- Flow 1:  
Average throughput: 55.26 Mbit/s  
95th percentile per-packet one-way delay: 83.436 ms  
Loss rate: 0.73%  
-- Flow 2:  
Average throughput: 35.91 Mbit/s  
95th percentile per-packet one-way delay: 86.223 ms  
Loss rate: 1.04%  
-- Flow 3:  
Average throughput: 46.55 Mbit/s  
95th percentile per-packet one-way delay: 68.335 ms  
Loss rate: 1.51%

# Run 10: Report of TCP BBR — Data Link

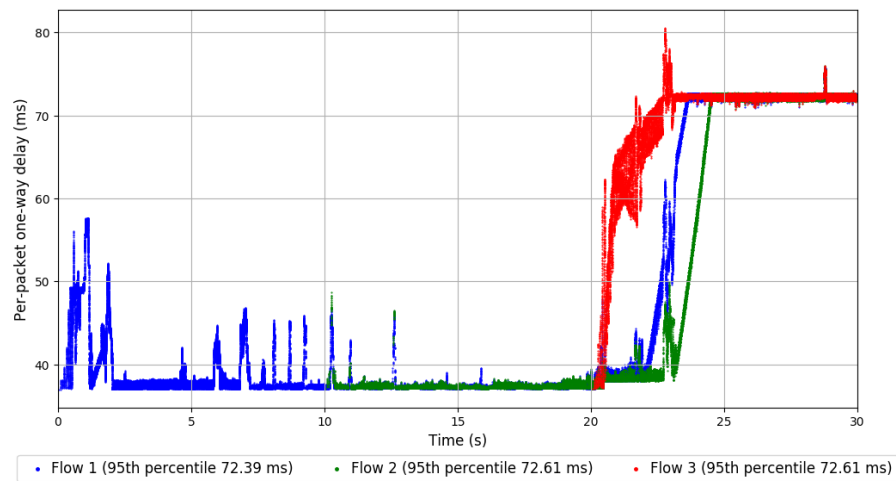
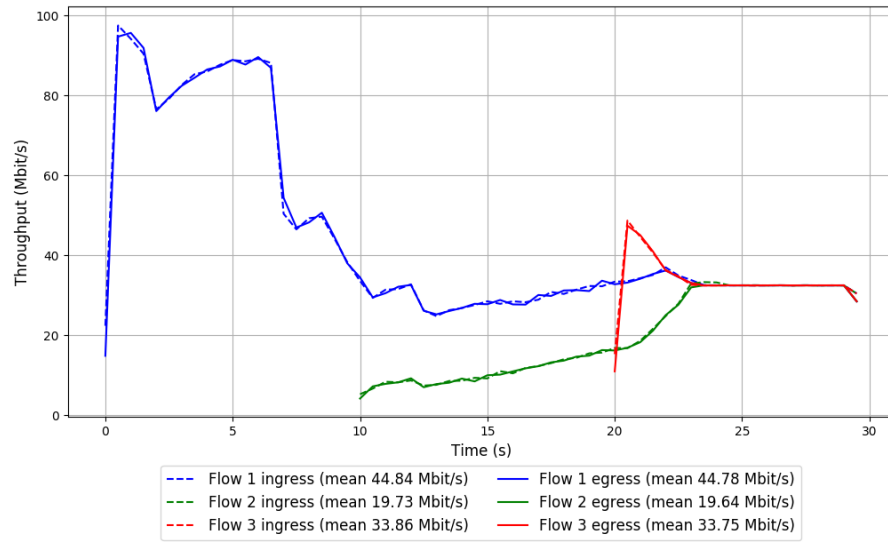


Run 1: Statistics of TCP Cubic

Start at: 2018-04-17 13:08:12  
End at: 2018-04-17 13:08:42  
Local clock offset: 0.099 ms  
Remote clock offset: -2.171 ms

# Below is generated by plot.py at 2018-04-17 21:49:39  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 69.00 Mbit/s  
95th percentile per-packet one-way delay: 72.562 ms  
Loss rate: 0.55%  
-- Flow 1:  
Average throughput: 44.78 Mbit/s  
95th percentile per-packet one-way delay: 72.395 ms  
Loss rate: 0.35%  
-- Flow 2:  
Average throughput: 19.64 Mbit/s  
95th percentile per-packet one-way delay: 72.612 ms  
Loss rate: 0.88%  
-- Flow 3:  
Average throughput: 33.75 Mbit/s  
95th percentile per-packet one-way delay: 72.614 ms  
Loss rate: 0.99%

# Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-04-17 13:32:34

End at: 2018-04-17 13:33:04

Local clock offset: 1.831 ms

Remote clock offset: -1.49 ms

# Below is generated by plot.py at 2018-04-17 21:49:39

# Datalink statistics

-- Total of 3 flows:

Average throughput: 53.07 Mbit/s

95th percentile per-packet one-way delay: 55.786 ms

Loss rate: 0.56%

-- Flow 1:

Average throughput: 20.12 Mbit/s

95th percentile per-packet one-way delay: 47.154 ms

Loss rate: 0.48%

-- Flow 2:

Average throughput: 22.95 Mbit/s

95th percentile per-packet one-way delay: 44.617 ms

Loss rate: 0.45%

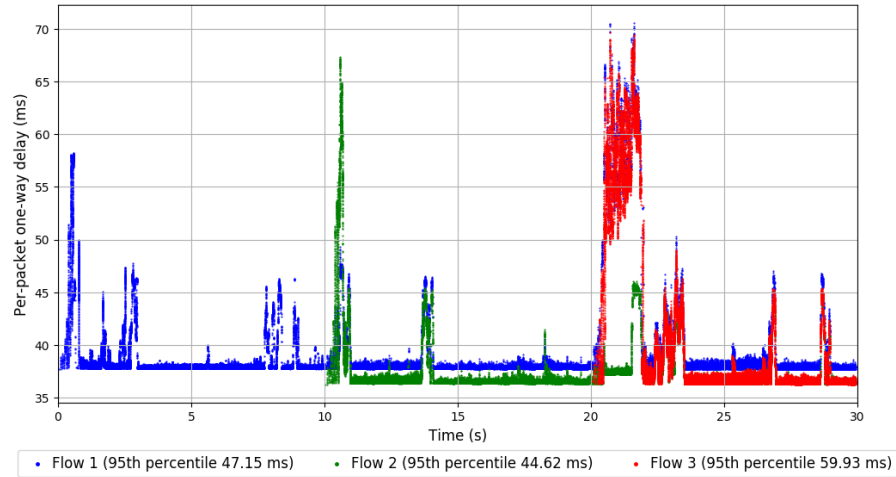
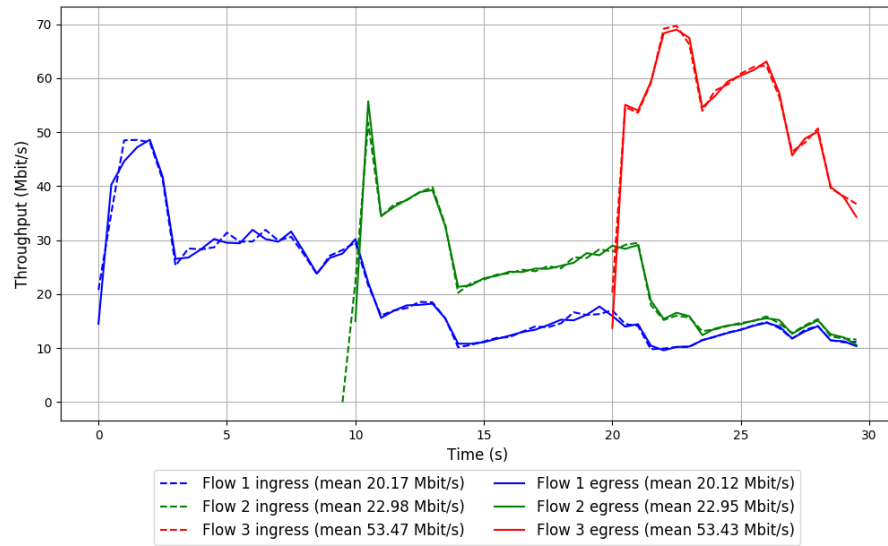
-- Flow 3:

Average throughput: 53.43 Mbit/s

95th percentile per-packet one-way delay: 59.932 ms

Loss rate: 0.75%

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



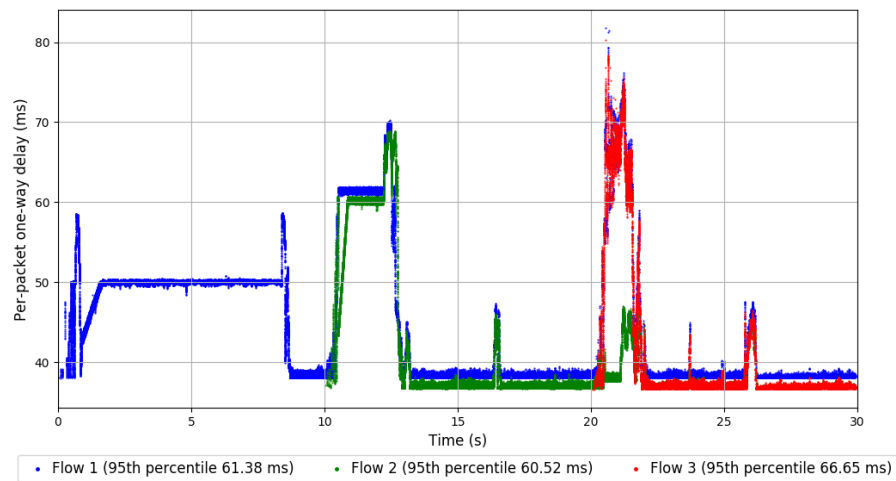
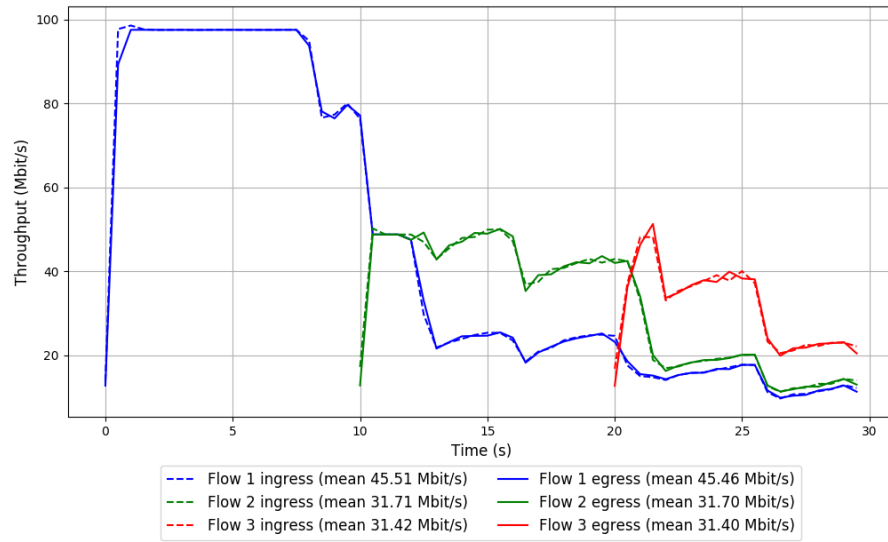


Run 3: Statistics of TCP Cubic

Start at: 2018-04-17 13:56:05  
End at: 2018-04-17 13:56:35  
Local clock offset: 3.523 ms  
Remote clock offset: -1.984 ms

# Below is generated by plot.py at 2018-04-17 21:49:39  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 76.92 Mbit/s  
95th percentile per-packet one-way delay: 61.477 ms  
Loss rate: 0.37%  
-- Flow 1:  
Average throughput: 45.46 Mbit/s  
95th percentile per-packet one-way delay: 61.384 ms  
Loss rate: 0.30%  
-- Flow 2:  
Average throughput: 31.70 Mbit/s  
95th percentile per-packet one-way delay: 60.518 ms  
Loss rate: 0.36%  
-- Flow 3:  
Average throughput: 31.40 Mbit/s  
95th percentile per-packet one-way delay: 66.648 ms  
Loss rate: 0.73%

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

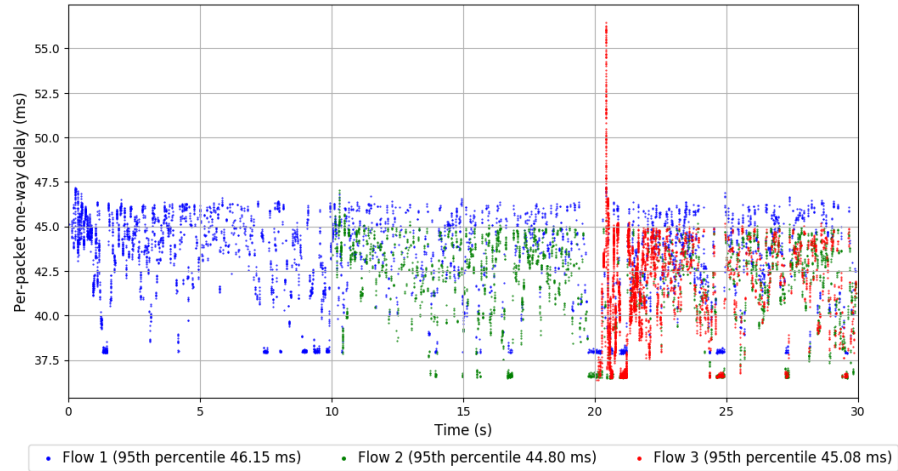
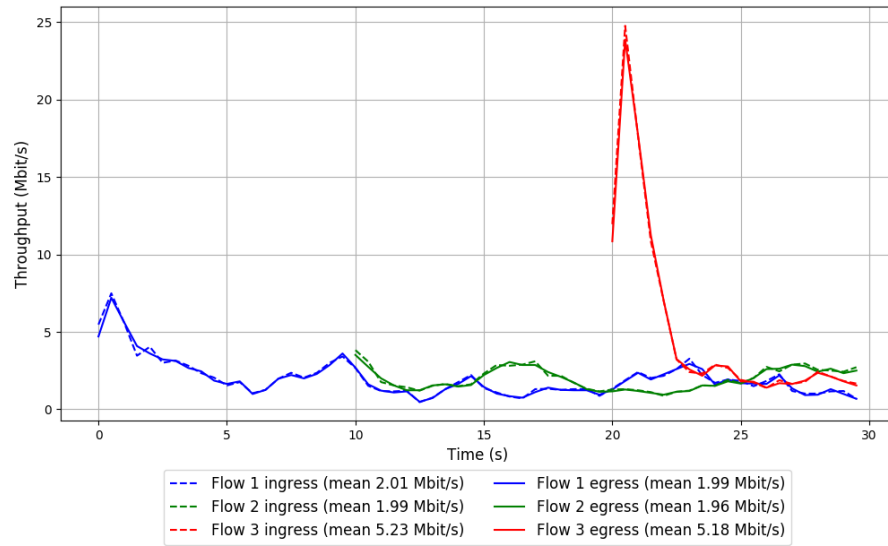


Run 4: Statistics of TCP Cubic

Start at: 2018-04-17 14:21:07  
End at: 2018-04-17 14:21:37  
Local clock offset: 10.471 ms  
Remote clock offset: -0.965 ms

# Below is generated by plot.py at 2018-04-17 21:49:39  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 5.00 Mbit/s  
95th percentile per-packet one-way delay: 45.996 ms  
Loss rate: 1.68%  
-- Flow 1:  
Average throughput: 1.99 Mbit/s  
95th percentile per-packet one-way delay: 46.148 ms  
Loss rate: 1.47%  
-- Flow 2:  
Average throughput: 1.96 Mbit/s  
95th percentile per-packet one-way delay: 44.800 ms  
Loss rate: 2.00%  
-- Flow 3:  
Average throughput: 5.18 Mbit/s  
95th percentile per-packet one-way delay: 45.080 ms  
Loss rate: 1.69%

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

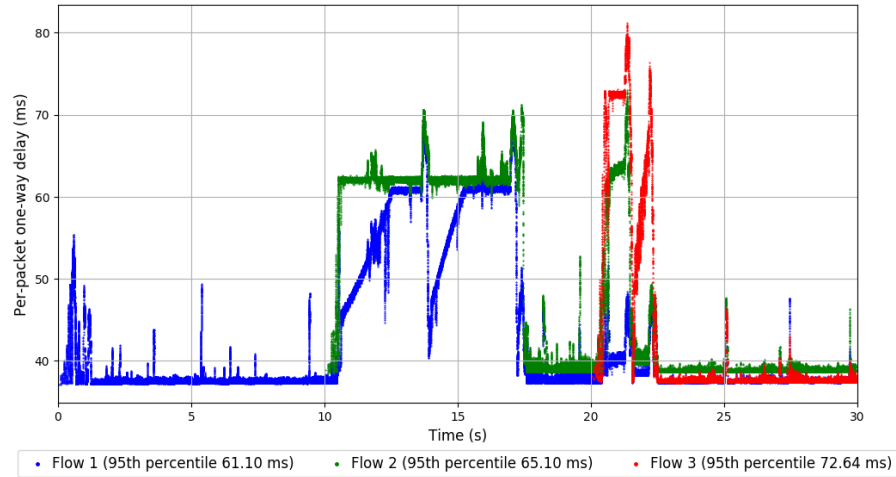
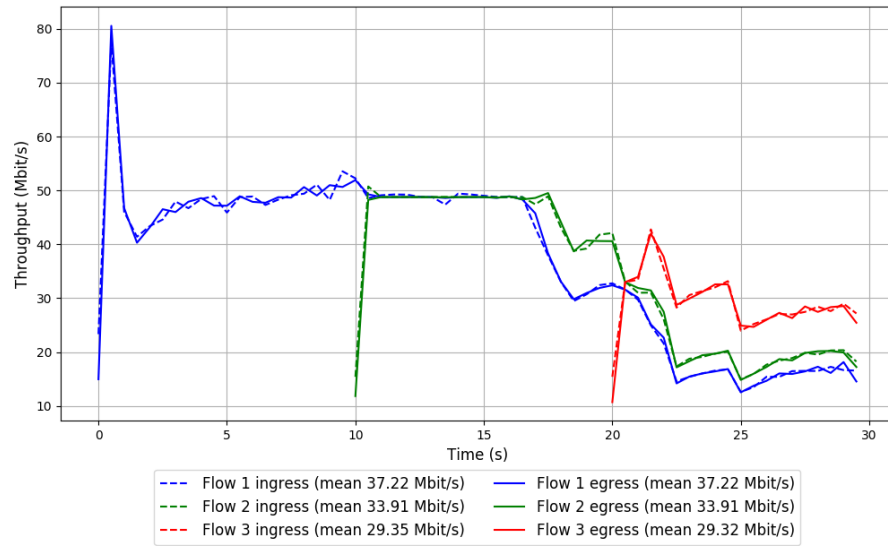


Run 5: Statistics of TCP Cubic

Start at: 2018-04-17 14:50:15  
End at: 2018-04-17 14:50:45  
Local clock offset: 1.223 ms  
Remote clock offset: -0.486 ms

# Below is generated by plot.py at 2018-04-17 21:49:39  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 69.45 Mbit/s  
95th percentile per-packet one-way delay: 64.104 ms  
Loss rate: 0.34%  
-- Flow 1:  
Average throughput: 37.22 Mbit/s  
95th percentile per-packet one-way delay: 61.098 ms  
Loss rate: 0.24%  
-- Flow 2:  
Average throughput: 33.91 Mbit/s  
95th percentile per-packet one-way delay: 65.102 ms  
Loss rate: 0.31%  
-- Flow 3:  
Average throughput: 29.32 Mbit/s  
95th percentile per-packet one-way delay: 72.645 ms  
Loss rate: 0.79%

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

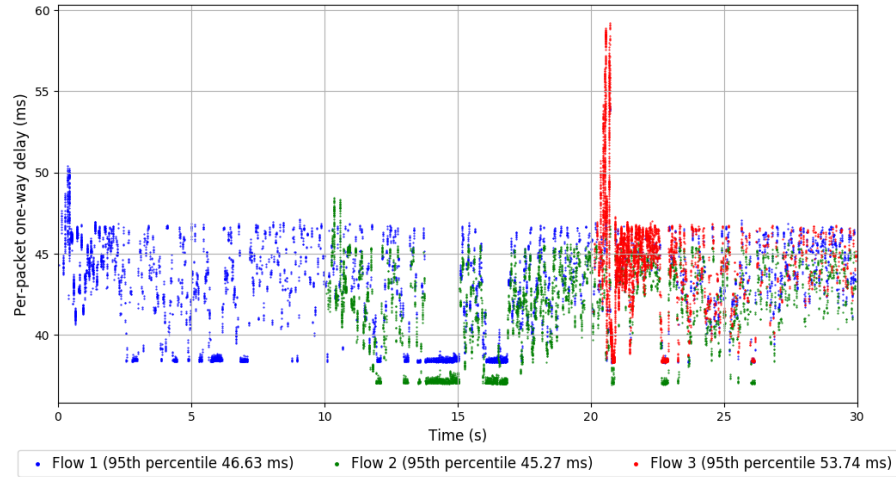
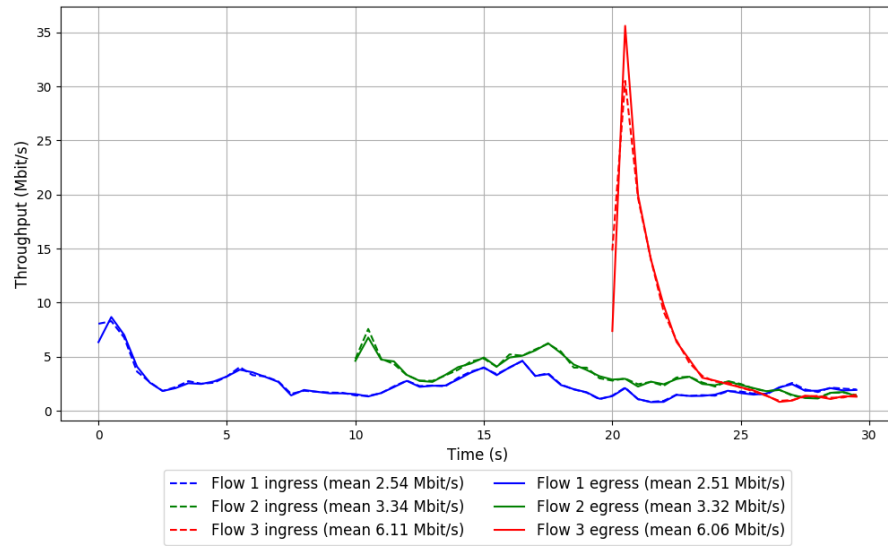


Run 6: Statistics of TCP Cubic

Start at: 2018-04-17 15:17:50  
End at: 2018-04-17 15:18:20  
Local clock offset: -1.358 ms  
Remote clock offset: -3.167 ms

# Below is generated by plot.py at 2018-04-17 21:49:39  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 6.72 Mbit/s  
95th percentile per-packet one-way delay: 47.204 ms  
Loss rate: 1.26%  
-- Flow 1:  
Average throughput: 2.51 Mbit/s  
95th percentile per-packet one-way delay: 46.634 ms  
Loss rate: 1.41%  
-- Flow 2:  
Average throughput: 3.32 Mbit/s  
95th percentile per-packet one-way delay: 45.271 ms  
Loss rate: 0.94%  
-- Flow 3:  
Average throughput: 6.06 Mbit/s  
95th percentile per-packet one-way delay: 53.738 ms  
Loss rate: 1.42%

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



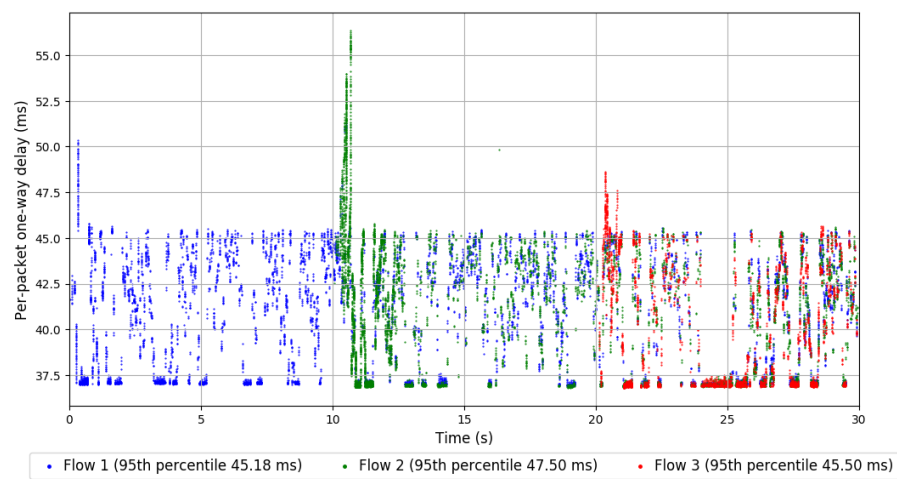
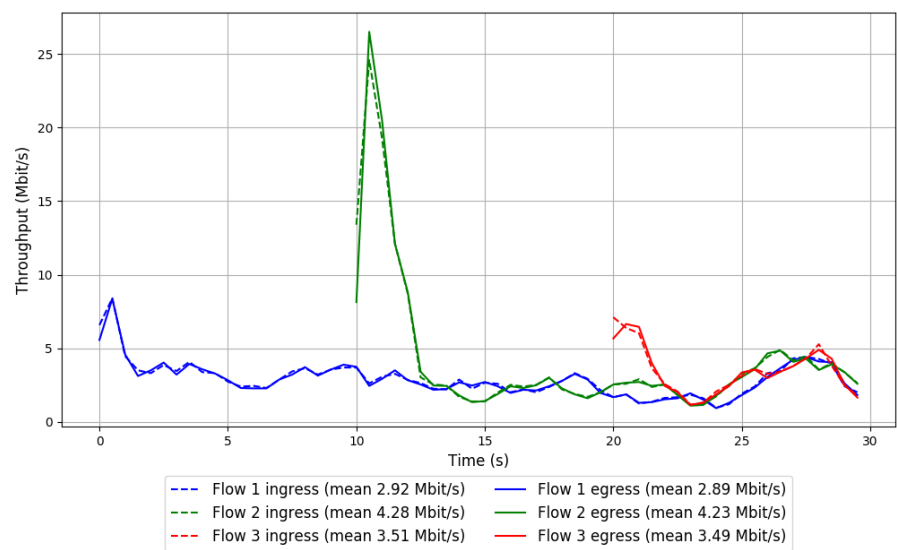


Run 7: Statistics of TCP Cubic

Start at: 2018-04-17 15:45:14  
End at: 2018-04-17 15:45:44  
Local clock offset: -1.514 ms  
Remote clock offset: -8.149 ms

# Below is generated by plot.py at 2018-04-17 21:49:39  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 6.85 Mbit/s  
95th percentile per-packet one-way delay: 45.368 ms  
Loss rate: 1.43%  
-- Flow 1:  
Average throughput: 2.89 Mbit/s  
95th percentile per-packet one-way delay: 45.183 ms  
Loss rate: 1.34%  
-- Flow 2:  
Average throughput: 4.23 Mbit/s  
95th percentile per-packet one-way delay: 47.504 ms  
Loss rate: 1.53%  
-- Flow 3:  
Average throughput: 3.49 Mbit/s  
95th percentile per-packet one-way delay: 45.499 ms  
Loss rate: 1.38%

Run 7: Report of TCP Cubic — Data Link

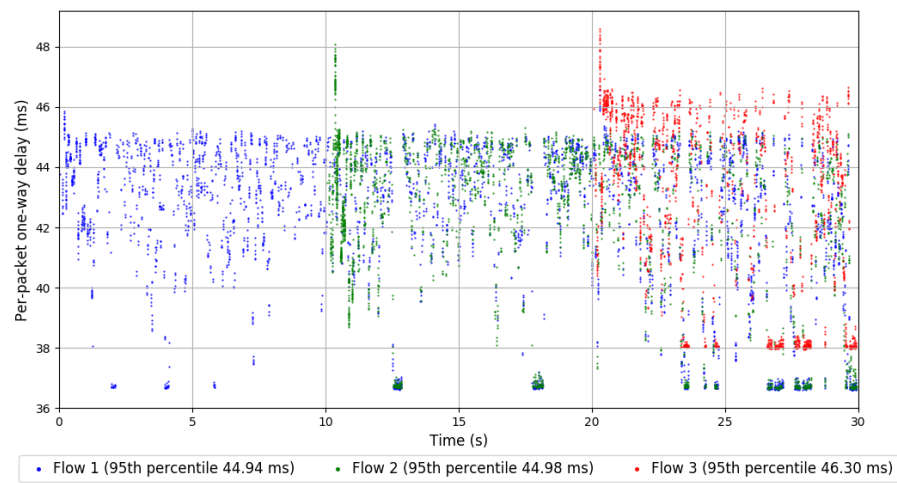
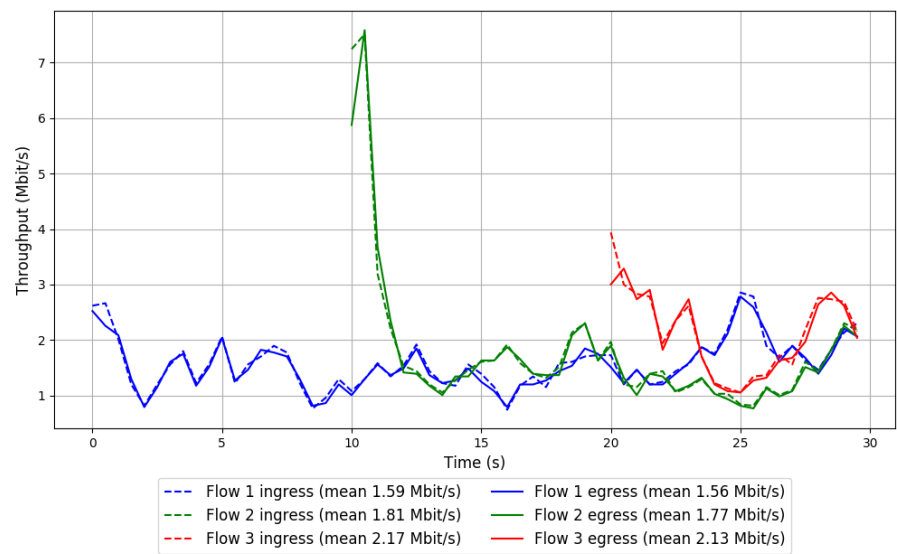


Run 8: Statistics of TCP Cubic

Start at: 2018-04-17 16:14:27  
End at: 2018-04-17 16:14:57  
Local clock offset: -0.5 ms  
Remote clock offset: -6.244 ms

# Below is generated by plot.py at 2018-04-17 21:49:39  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 3.44 Mbit/s  
95th percentile per-packet one-way delay: 45.674 ms  
Loss rate: 2.29%  
-- Flow 1:  
Average throughput: 1.56 Mbit/s  
95th percentile per-packet one-way delay: 44.940 ms  
Loss rate: 2.02%  
-- Flow 2:  
Average throughput: 1.77 Mbit/s  
95th percentile per-packet one-way delay: 44.985 ms  
Loss rate: 2.36%  
-- Flow 3:  
Average throughput: 2.13 Mbit/s  
95th percentile per-packet one-way delay: 46.299 ms  
Loss rate: 2.78%

Run 8: Report of TCP Cubic — Data Link

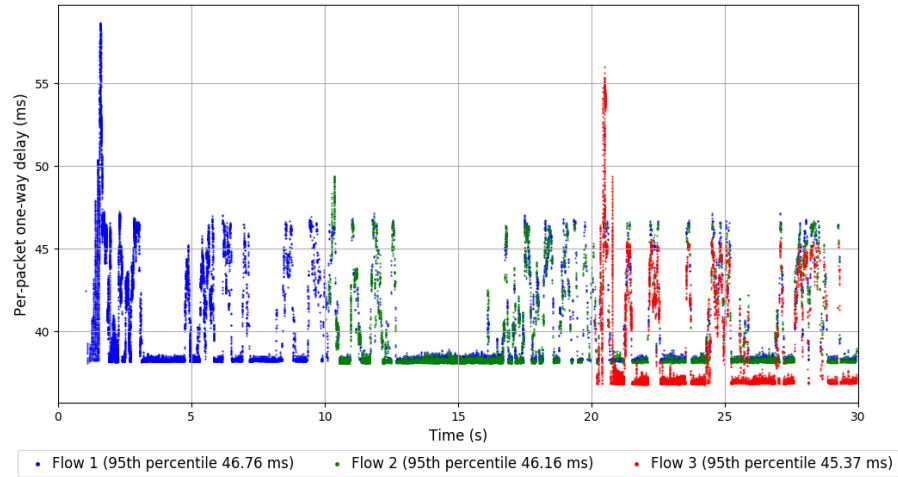
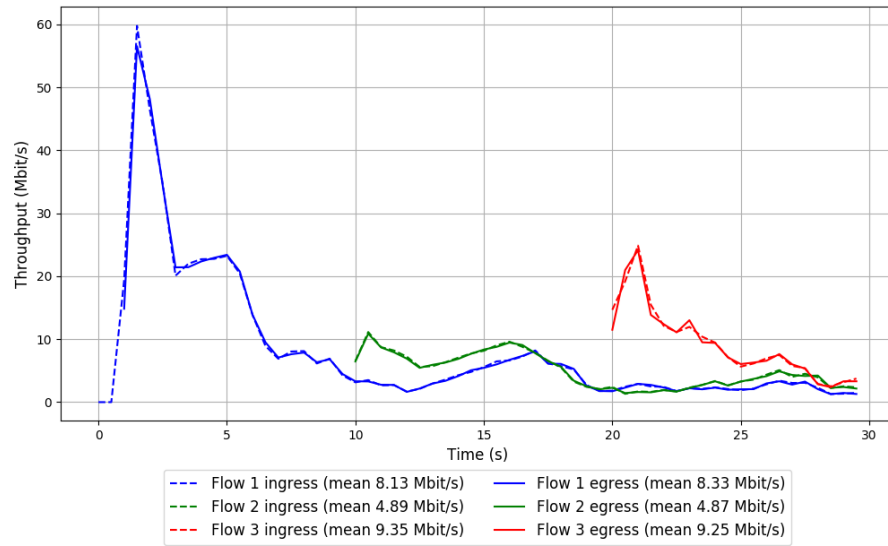


Run 9: Statistics of TCP Cubic

Start at: 2018-04-17 16:40:19  
End at: 2018-04-17 16:40:49  
Local clock offset: -0.052 ms  
Remote clock offset: -1.755 ms

# Below is generated by plot.py at 2018-04-17 21:49:39  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 14.84 Mbit/s  
95th percentile per-packet one-way delay: 46.504 ms  
Loss rate: 1.24%  
-- Flow 1:  
Average throughput: 8.33 Mbit/s  
95th percentile per-packet one-way delay: 46.755 ms  
Loss rate: 1.17%  
-- Flow 2:  
Average throughput: 4.87 Mbit/s  
95th percentile per-packet one-way delay: 46.161 ms  
Loss rate: 0.85%  
-- Flow 3:  
Average throughput: 9.25 Mbit/s  
95th percentile per-packet one-way delay: 45.371 ms  
Loss rate: 1.82%

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

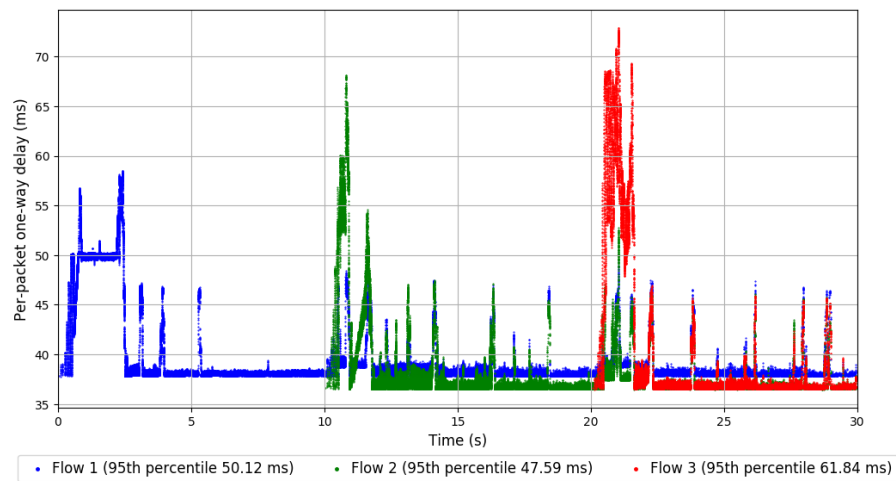
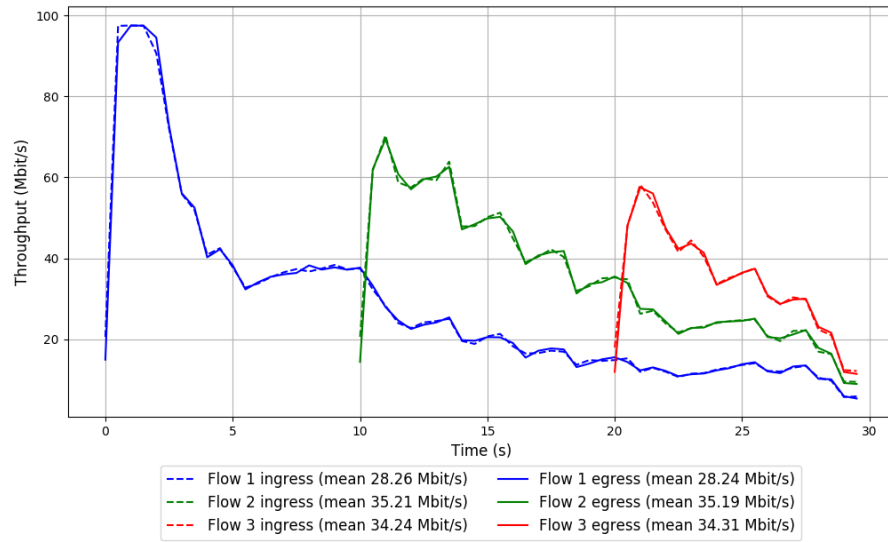


Run 10: Statistics of TCP Cubic

Start at: 2018-04-17 17:05:44  
End at: 2018-04-17 17:06:14  
Local clock offset: 0.708 ms  
Remote clock offset: -2.077 ms

# Below is generated by plot.py at 2018-04-17 21:49:39  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 62.99 Mbit/s  
95th percentile per-packet one-way delay: 52.801 ms  
Loss rate: 0.36%  
-- Flow 1:  
Average throughput: 28.24 Mbit/s  
95th percentile per-packet one-way delay: 50.123 ms  
Loss rate: 0.28%  
-- Flow 2:  
Average throughput: 35.19 Mbit/s  
95th percentile per-packet one-way delay: 47.593 ms  
Loss rate: 0.39%  
-- Flow 3:  
Average throughput: 34.31 Mbit/s  
95th percentile per-packet one-way delay: 61.836 ms  
Loss rate: 0.47%

# Run 10: Report of TCP Cubic — Data Link



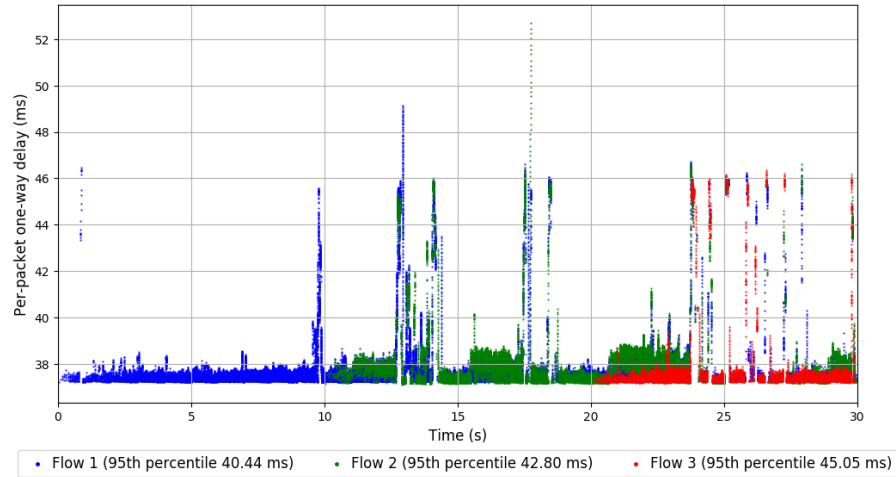
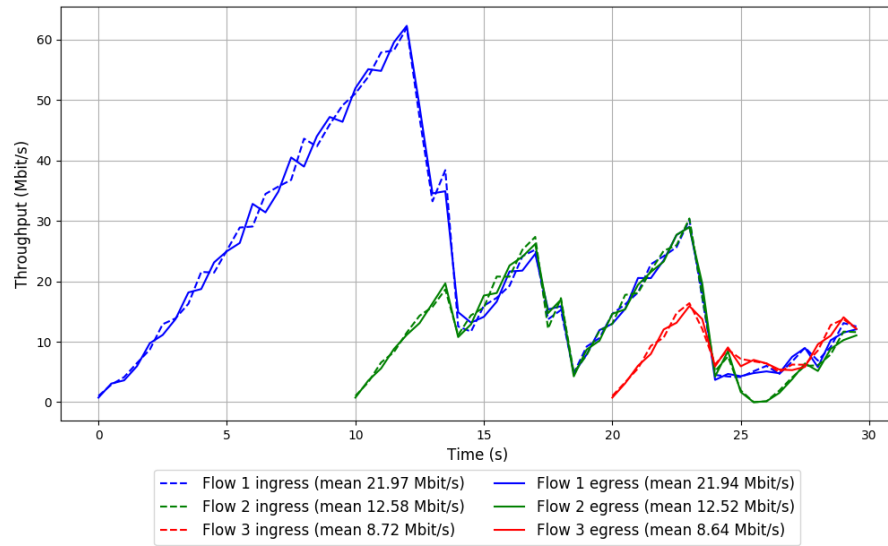


```
Run 1: Statistics of LEDBAT

Start at: 2018-04-17 13:11:13
End at: 2018-04-17 13:11:43
Local clock offset: 0.002 ms
Remote clock offset: -2.094 ms

# Below is generated by plot.py at 2018-04-17 21:49:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 33.11 Mbit/s
95th percentile per-packet one-way delay: 41.533 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 21.94 Mbit/s
95th percentile per-packet one-way delay: 40.444 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 12.52 Mbit/s
95th percentile per-packet one-way delay: 42.799 ms
Loss rate: 0.81%
-- Flow 3:
Average throughput: 8.64 Mbit/s
95th percentile per-packet one-way delay: 45.054 ms
Loss rate: 1.53%
```

## Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2018-04-17 13:35:21

End at: 2018-04-17 13:35:51

Local clock offset: 2.298 ms

Remote clock offset: -1.7 ms

# Below is generated by plot.py at 2018-04-17 21:49:39

# Datalink statistics

-- Total of 3 flows:

Average throughput: 13.53 Mbit/s

95th percentile per-packet one-way delay: 44.578 ms

Loss rate: 1.53%

-- Flow 1:

Average throughput: 5.86 Mbit/s

95th percentile per-packet one-way delay: 44.560 ms

Loss rate: 1.27%

-- Flow 2:

Average throughput: 8.20 Mbit/s

95th percentile per-packet one-way delay: 45.114 ms

Loss rate: 1.50%

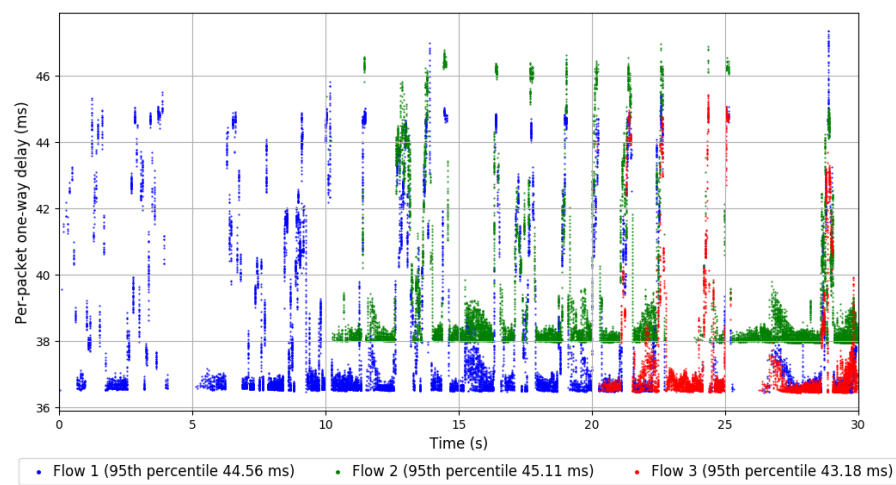
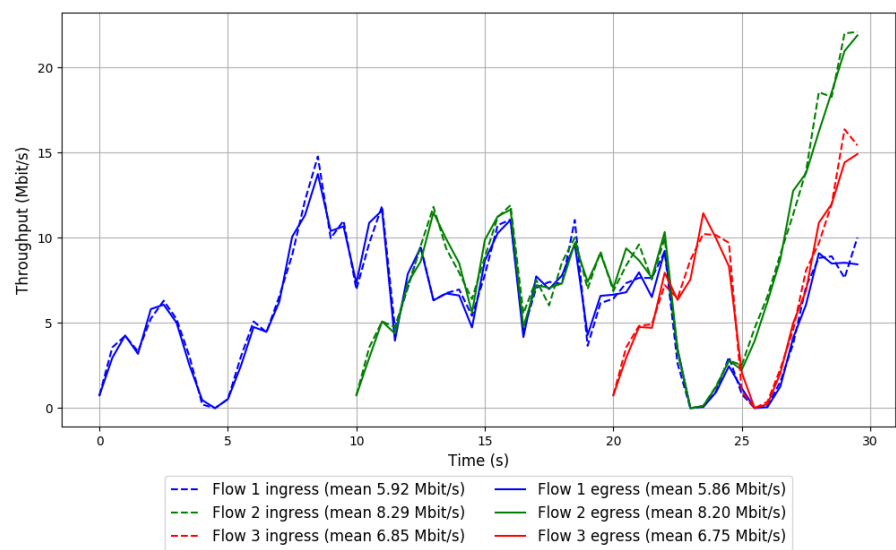
-- Flow 3:

Average throughput: 6.75 Mbit/s

95th percentile per-packet one-way delay: 43.182 ms

Loss rate: 2.29%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-04-17 13:58:53

End at: 2018-04-17 13:59:23

Local clock offset: 4.039 ms

Remote clock offset: -1.98 ms

# Below is generated by plot.py at 2018-04-17 21:49:39

# Datalink statistics

-- Total of 3 flows:

Average throughput: 10.96 Mbit/s

95th percentile per-packet one-way delay: 45.424 ms

Loss rate: 1.20%

-- Flow 1:

Average throughput: 4.58 Mbit/s

95th percentile per-packet one-way delay: 45.724 ms

Loss rate: 1.15%

-- Flow 2:

Average throughput: 7.27 Mbit/s

95th percentile per-packet one-way delay: 44.234 ms

Loss rate: 0.89%

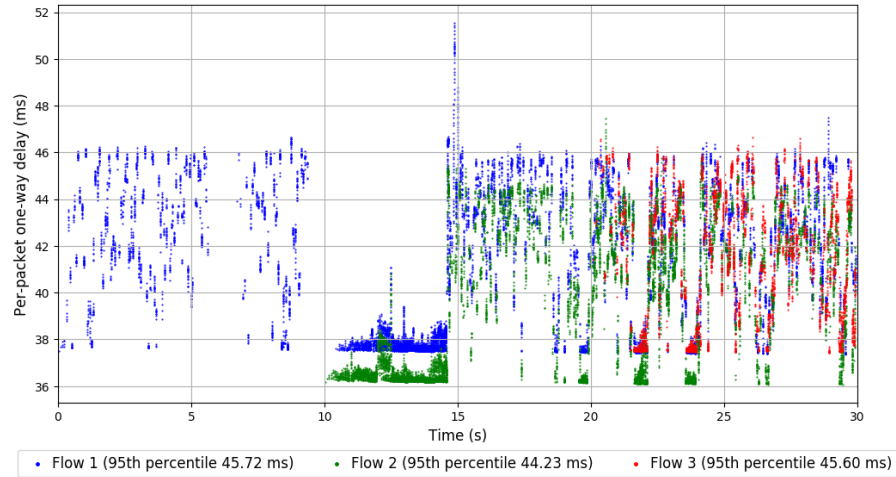
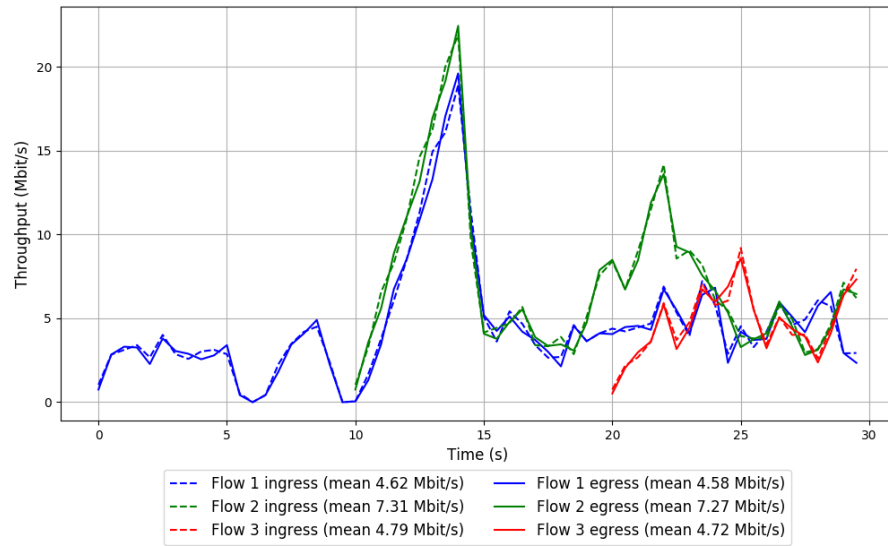
-- Flow 3:

Average throughput: 4.72 Mbit/s

95th percentile per-packet one-way delay: 45.598 ms

Loss rate: 2.24%

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

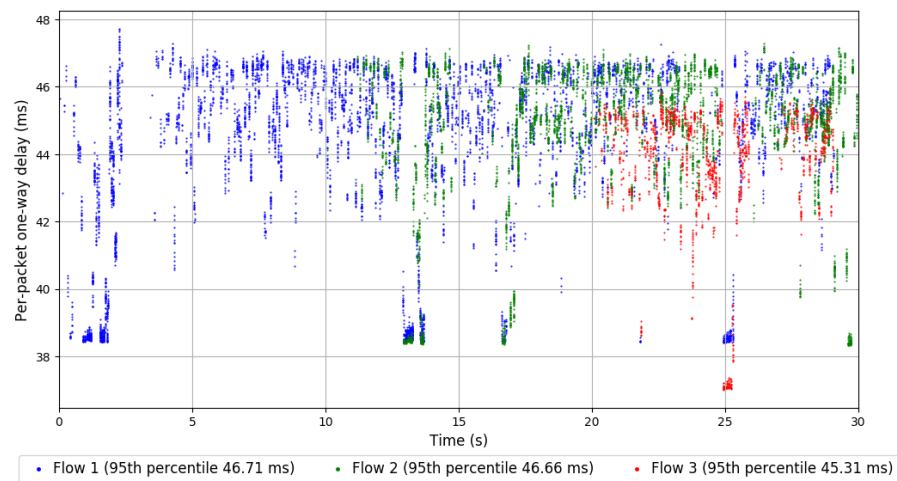
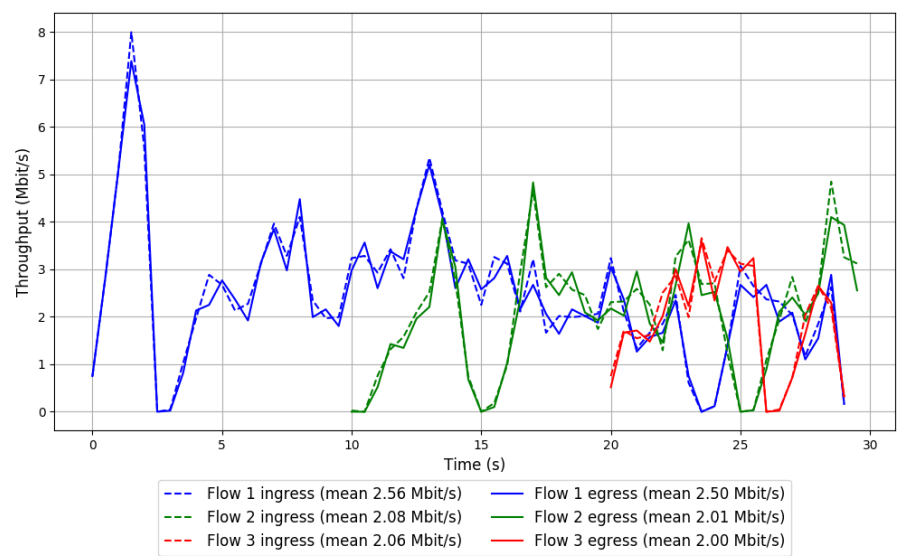


Run 4: Statistics of LEDBAT

Start at: 2018-04-17 14:24:26  
End at: 2018-04-17 14:24:56  
Local clock offset: 11.085 ms  
Remote clock offset: -1.256 ms

# Below is generated by plot.py at 2018-04-17 21:49:39  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 4.37 Mbit/s  
95th percentile per-packet one-way delay: 46.674 ms  
Loss rate: 2.70%  
-- Flow 1:  
Average throughput: 2.50 Mbit/s  
95th percentile per-packet one-way delay: 46.712 ms  
Loss rate: 2.30%  
-- Flow 2:  
Average throughput: 2.01 Mbit/s  
95th percentile per-packet one-way delay: 46.660 ms  
Loss rate: 3.36%  
-- Flow 3:  
Average throughput: 2.00 Mbit/s  
95th percentile per-packet one-way delay: 45.313 ms  
Loss rate: 2.86%

Run 4: Report of LEDBAT — Data Link





Run 5: Statistics of LEDBAT

Start at: 2018-04-17 14:53:08

End at: 2018-04-17 14:53:38

Local clock offset: 0.62 ms

Remote clock offset: 0.074 ms

# Below is generated by plot.py at 2018-04-17 21:49:39

# Datalink statistics

-- Total of 3 flows:

Average throughput: 9.73 Mbit/s

95th percentile per-packet one-way delay: 46.186 ms

Loss rate: 1.18%

-- Flow 1:

Average throughput: 5.17 Mbit/s

95th percentile per-packet one-way delay: 45.118 ms

Loss rate: 1.12%

-- Flow 2:

Average throughput: 4.47 Mbit/s

95th percentile per-packet one-way delay: 46.442 ms

Loss rate: 1.26%

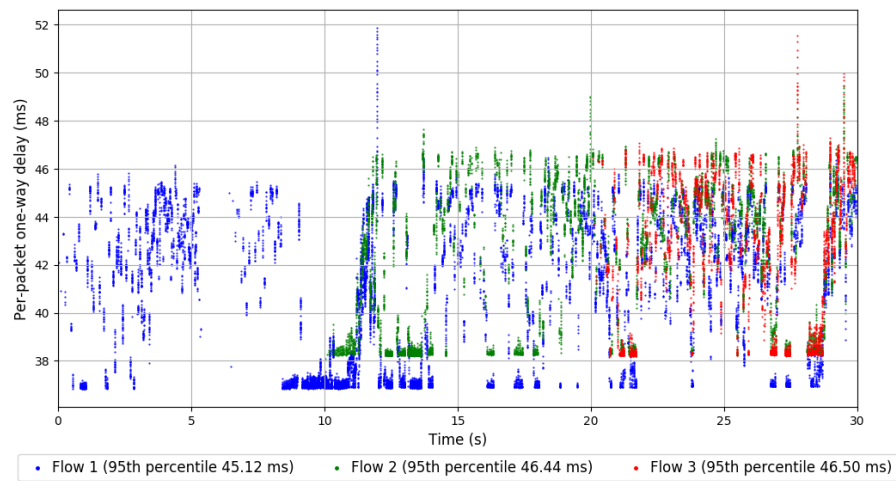
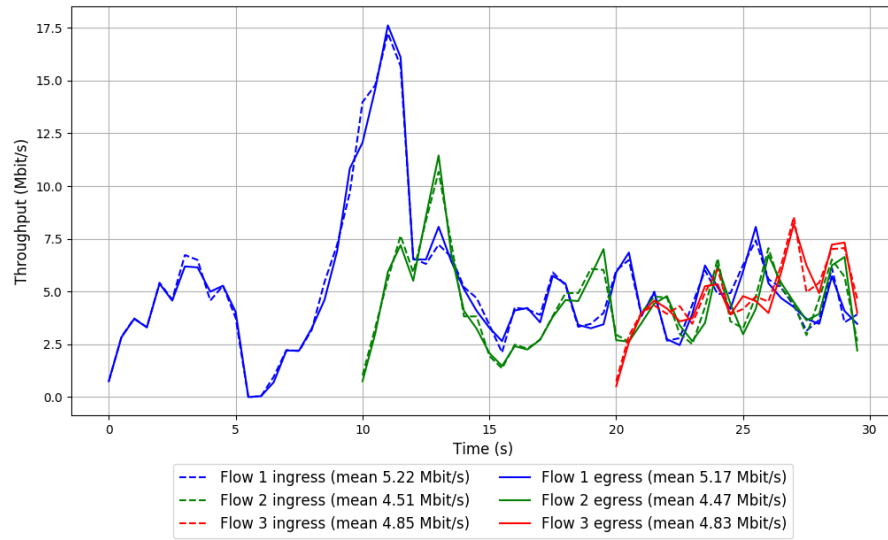
-- Flow 3:

Average throughput: 4.83 Mbit/s

95th percentile per-packet one-way delay: 46.498 ms

Loss rate: 1.22%

## Run 5: Report of LEDBAT — Data Link

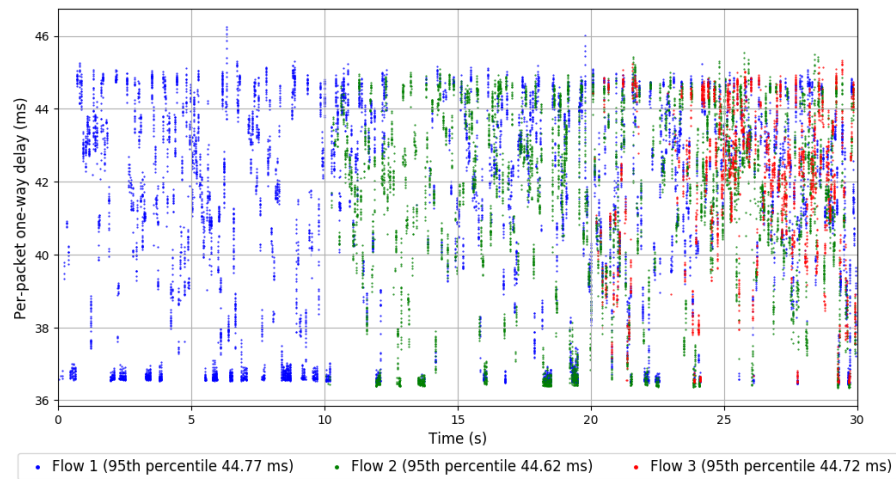
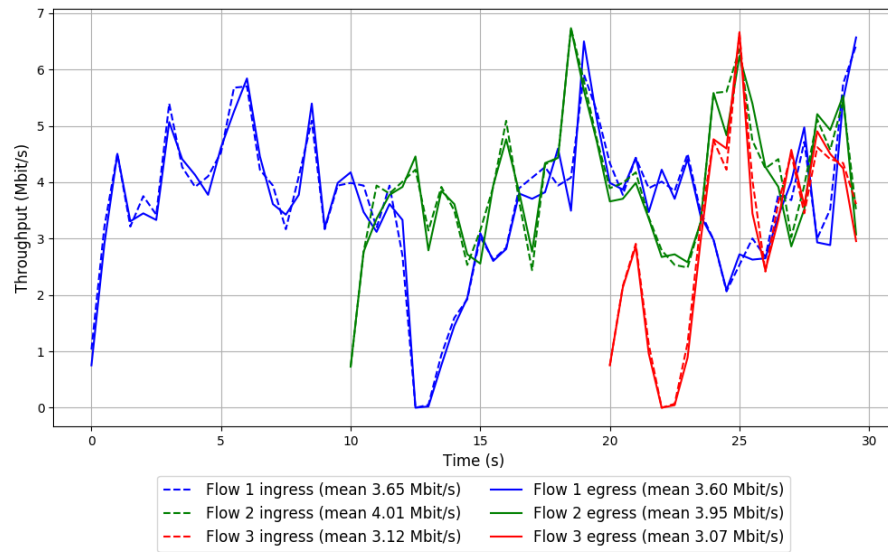


Run 6: Statistics of LEDBAT

Start at: 2018-04-17 15:21:09  
End at: 2018-04-17 15:21:39  
Local clock offset: -1.507 ms  
Remote clock offset: -3.736 ms

```
# Below is generated by plot.py at 2018-04-17 21:49:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 7.24 Mbit/s
95th percentile per-packet one-way delay: 44.714 ms
Loss rate: 1.79%
-- Flow 1:
Average throughput: 3.60 Mbit/s
95th percentile per-packet one-way delay: 44.768 ms
Loss rate: 1.61%
-- Flow 2:
Average throughput: 3.95 Mbit/s
95th percentile per-packet one-way delay: 44.621 ms
Loss rate: 1.82%
-- Flow 3:
Average throughput: 3.07 Mbit/s
95th percentile per-packet one-way delay: 44.715 ms
Loss rate: 2.34%
```

## Run 6: Report of LEDBAT — Data Link

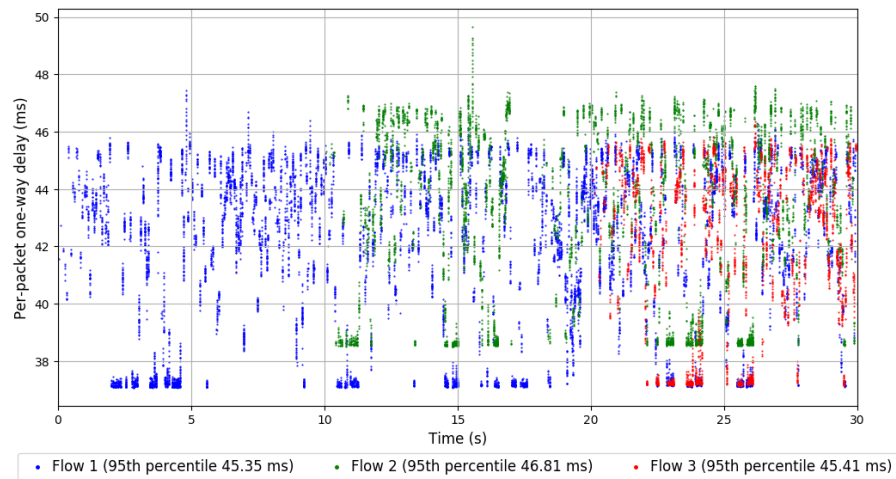
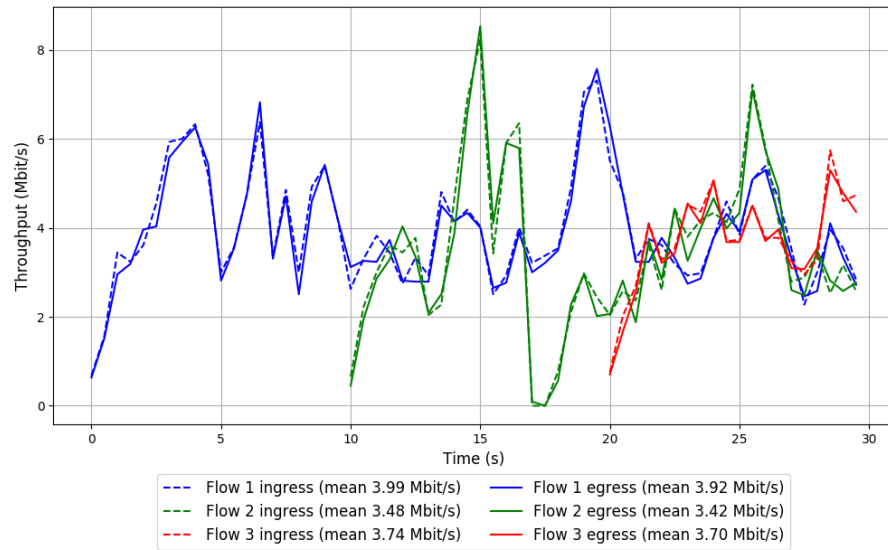


Run 7: Statistics of LEDBAT

Start at: 2018-04-17 15:48:35  
End at: 2018-04-17 15:49:05  
Local clock offset: -0.996 ms  
Remote clock offset: -7.614 ms

# Below is generated by plot.py at 2018-04-17 21:49:39  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 7.41 Mbit/s  
95th percentile per-packet one-way delay: 46.368 ms  
Loss rate: 1.95%  
-- Flow 1:  
Average throughput: 3.92 Mbit/s  
95th percentile per-packet one-way delay: 45.352 ms  
Loss rate: 1.99%  
-- Flow 2:  
Average throughput: 3.42 Mbit/s  
95th percentile per-packet one-way delay: 46.809 ms  
Loss rate: 1.95%  
-- Flow 3:  
Average throughput: 3.70 Mbit/s  
95th percentile per-packet one-way delay: 45.410 ms  
Loss rate: 1.83%

## Run 7: Report of LEDBAT — Data Link

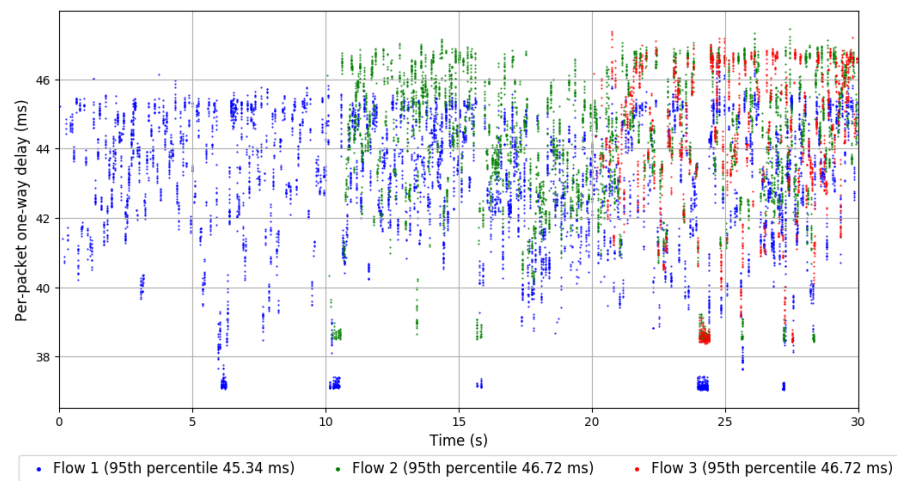
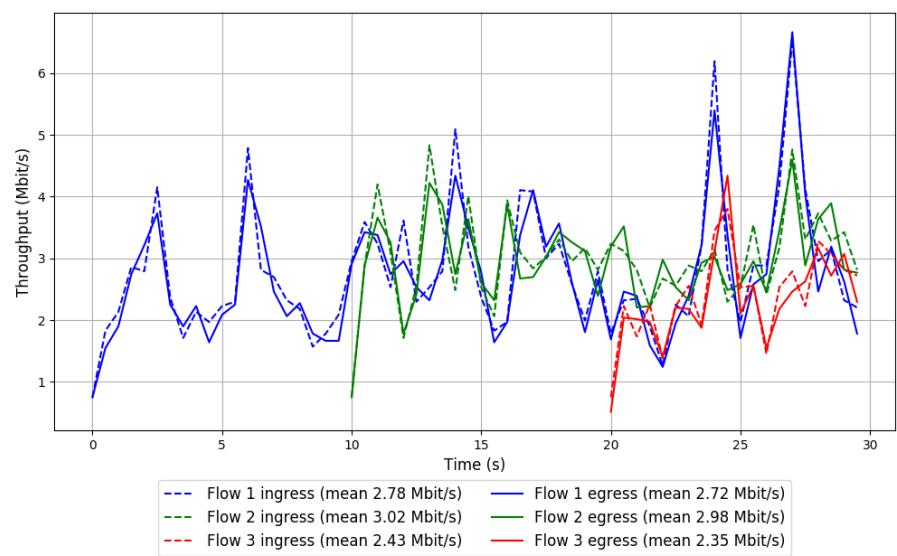


Run 8: Statistics of LEDBAT

Start at: 2018-04-17 16:18:09  
End at: 2018-04-17 16:18:39  
Local clock offset: -0.214 ms  
Remote clock offset: -6.795 ms

# Below is generated by plot.py at 2018-04-17 21:49:39  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 5.47 Mbit/s  
95th percentile per-packet one-way delay: 46.591 ms  
Loss rate: 2.45%  
-- Flow 1:  
Average throughput: 2.72 Mbit/s  
95th percentile per-packet one-way delay: 45.336 ms  
Loss rate: 2.36%  
-- Flow 2:  
Average throughput: 2.98 Mbit/s  
95th percentile per-packet one-way delay: 46.716 ms  
Loss rate: 2.01%  
-- Flow 3:  
Average throughput: 2.35 Mbit/s  
95th percentile per-packet one-way delay: 46.721 ms  
Loss rate: 3.89%

Run 8: Report of LEDBAT — Data Link



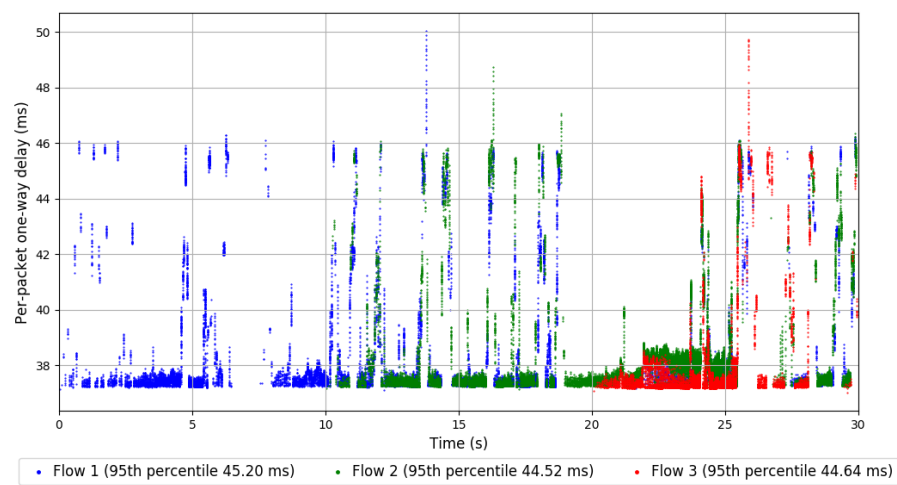
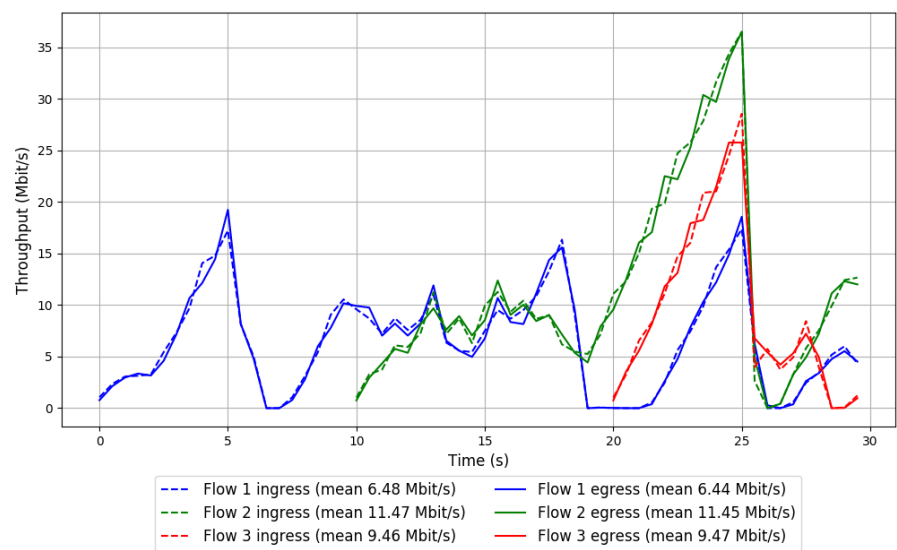


Run 9: Statistics of LEDBAT

Start at: 2018-04-17 16:43:25  
End at: 2018-04-17 16:43:55  
Local clock offset: -0.112 ms  
Remote clock offset: -2.006 ms

# Below is generated by plot.py at 2018-04-17 21:49:41  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 17.17 Mbit/s  
95th percentile per-packet one-way delay: 44.868 ms  
Loss rate: 0.63%  
-- Flow 1:  
Average throughput: 6.44 Mbit/s  
95th percentile per-packet one-way delay: 45.203 ms  
Loss rate: 0.85%  
-- Flow 2:  
Average throughput: 11.45 Mbit/s  
95th percentile per-packet one-way delay: 44.516 ms  
Loss rate: 0.46%  
-- Flow 3:  
Average throughput: 9.47 Mbit/s  
95th percentile per-packet one-way delay: 44.636 ms  
Loss rate: 0.59%

Run 9: Report of LEDBAT — Data Link

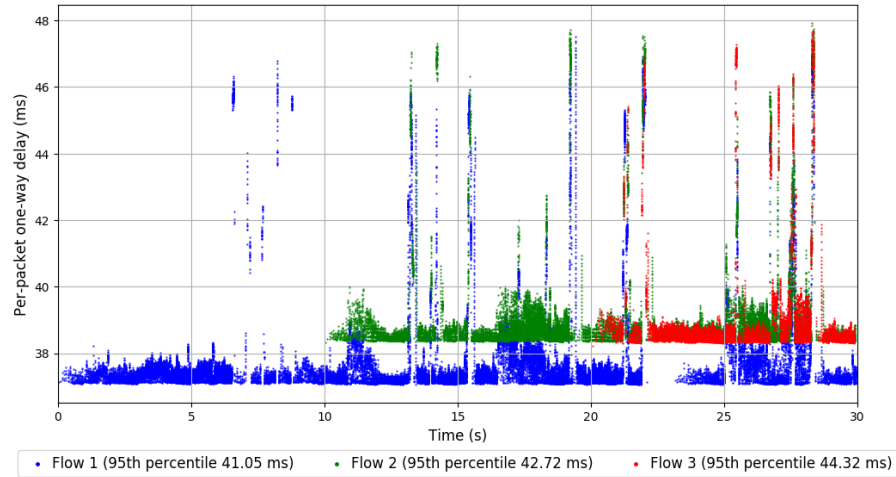
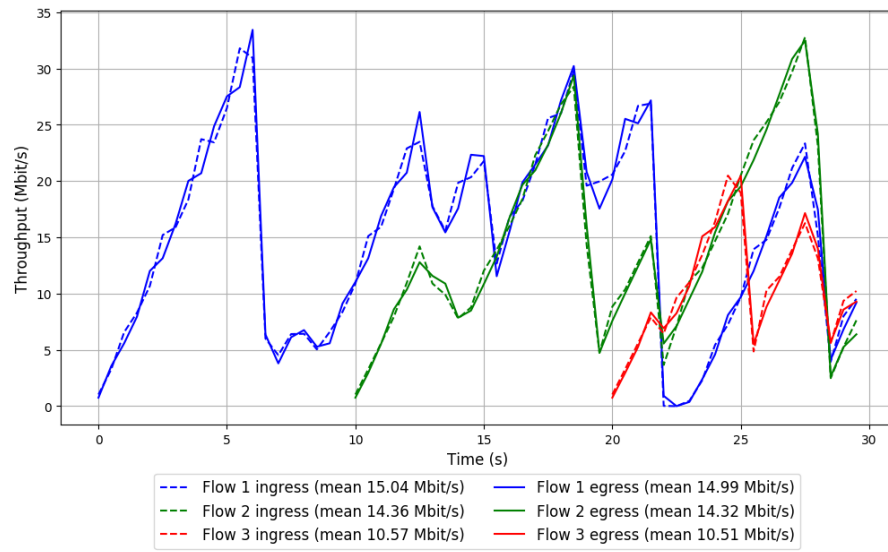


Run 10: Statistics of LEDBAT

Start at: 2018-04-17 17:08:33  
End at: 2018-04-17 17:09:03  
Local clock offset: 0.864 ms  
Remote clock offset: -2.556 ms

# Below is generated by plot.py at 2018-04-17 21:49:52  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 27.95 Mbit/s  
95th percentile per-packet one-way delay: 42.090 ms  
Loss rate: 0.67%  
-- Flow 1:  
Average throughput: 14.99 Mbit/s  
95th percentile per-packet one-way delay: 41.052 ms  
Loss rate: 0.58%  
-- Flow 2:  
Average throughput: 14.32 Mbit/s  
95th percentile per-packet one-way delay: 42.723 ms  
Loss rate: 0.58%  
-- Flow 3:  
Average throughput: 10.51 Mbit/s  
95th percentile per-packet one-way delay: 44.316 ms  
Loss rate: 1.29%

# Run 10: Report of LEDBAT — Data Link

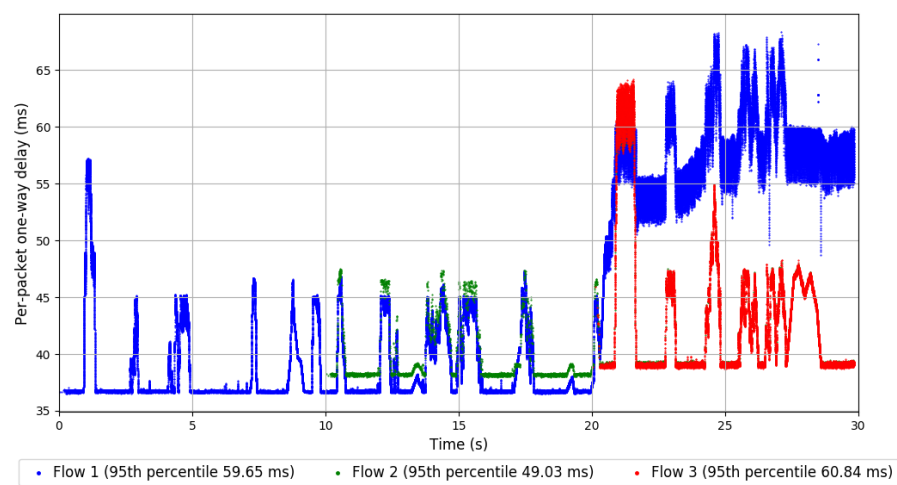
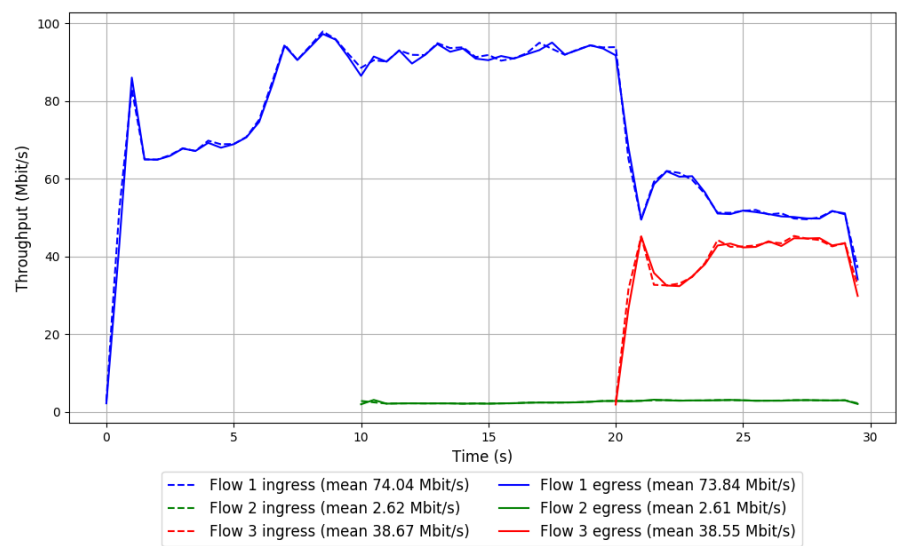


```
Run 1: Statistics of PCC-Allegro

Start at: 2018-04-17 13:24:12
End at: 2018-04-17 13:24:42
Local clock offset: -0.27 ms
Remote clock offset: -1.707 ms

# Below is generated by plot.py at 2018-04-17 21:50:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 88.24 Mbit/s
95th percentile per-packet one-way delay: 59.735 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 73.84 Mbit/s
95th percentile per-packet one-way delay: 59.654 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 2.61 Mbit/s
95th percentile per-packet one-way delay: 49.035 ms
Loss rate: 0.70%
-- Flow 3:
Average throughput: 38.55 Mbit/s
95th percentile per-packet one-way delay: 60.839 ms
Loss rate: 1.01%
```

Run 1: Report of PCC-Allegro — Data Link

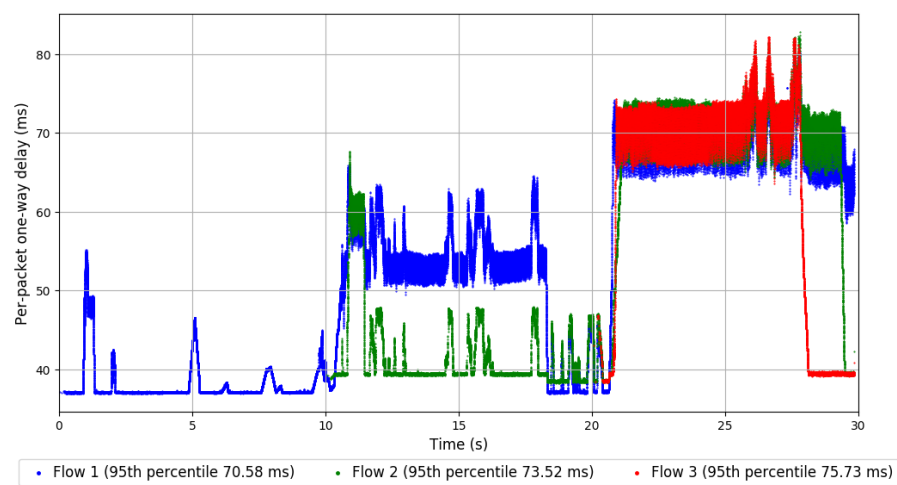
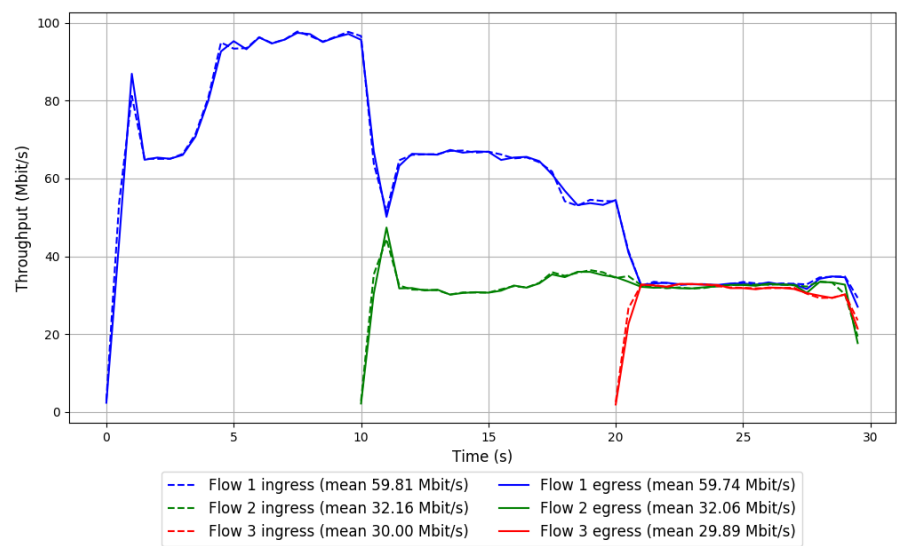


Run 2: Statistics of PCC-Allegro

Start at: 2018-04-17 13:48:02  
End at: 2018-04-17 13:48:32  
Local clock offset: 3.237 ms  
Remote clock offset: -2.462 ms

# Below is generated by plot.py at 2018-04-17 21:50:55  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 90.85 Mbit/s  
95th percentile per-packet one-way delay: 72.808 ms  
Loss rate: 0.51%  
-- Flow 1:  
Average throughput: 59.74 Mbit/s  
95th percentile per-packet one-way delay: 70.583 ms  
Loss rate: 0.37%  
-- Flow 2:  
Average throughput: 32.06 Mbit/s  
95th percentile per-packet one-way delay: 73.518 ms  
Loss rate: 0.62%  
-- Flow 3:  
Average throughput: 29.89 Mbit/s  
95th percentile per-packet one-way delay: 75.731 ms  
Loss rate: 1.09%

Run 2: Report of PCC-Allegro — Data Link



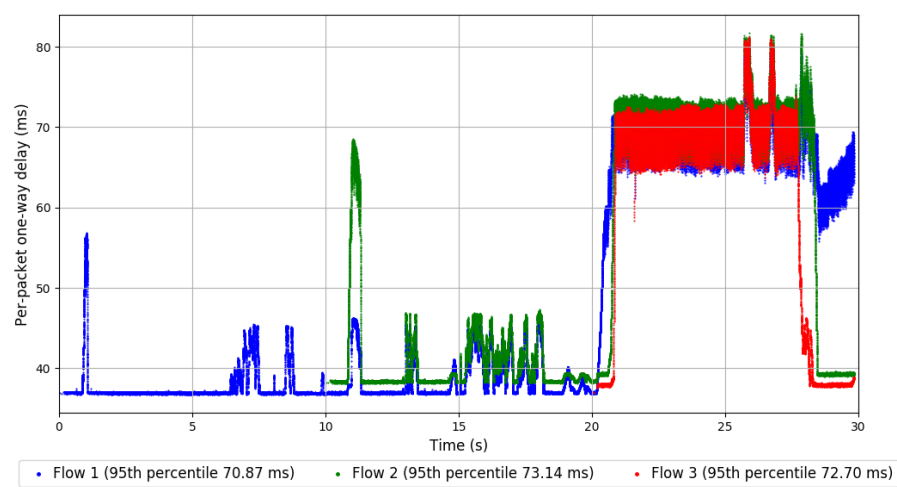
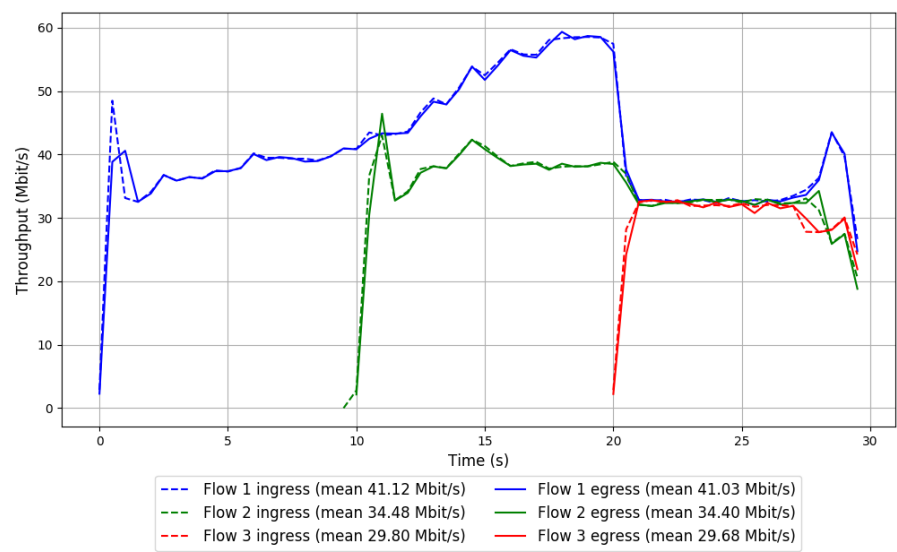


Run 3: Statistics of PCC-Allegro

Start at: 2018-04-17 14:12:39  
End at: 2018-04-17 14:13:09  
Local clock offset: 9.062 ms  
Remote clock offset: -1.566 ms

# Below is generated by plot.py at 2018-04-17 21:50:55  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 73.63 Mbit/s  
95th percentile per-packet one-way delay: 72.274 ms  
Loss rate: 0.59%  
-- Flow 1:  
Average throughput: 41.03 Mbit/s  
95th percentile per-packet one-way delay: 70.869 ms  
Loss rate: 0.48%  
-- Flow 2:  
Average throughput: 34.40 Mbit/s  
95th percentile per-packet one-way delay: 73.143 ms  
Loss rate: 0.57%  
-- Flow 3:  
Average throughput: 29.68 Mbit/s  
95th percentile per-packet one-way delay: 72.698 ms  
Loss rate: 1.05%

Run 3: Report of PCC-Allegro — Data Link

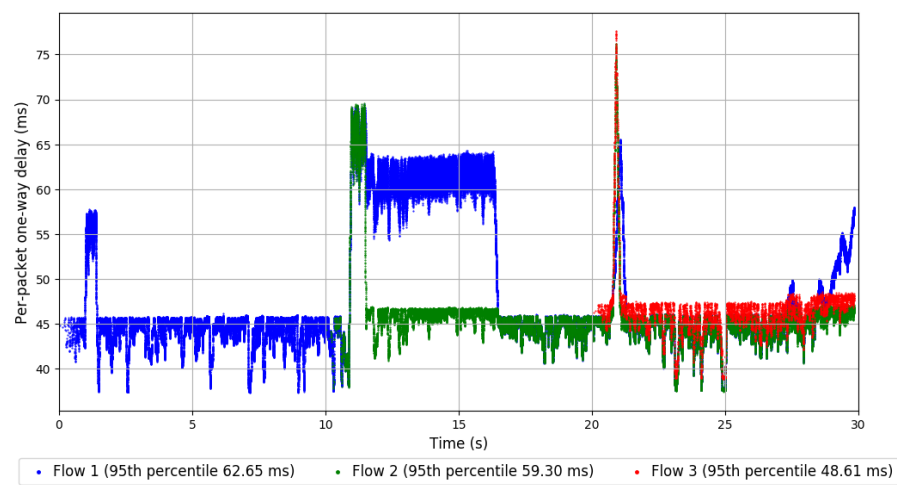
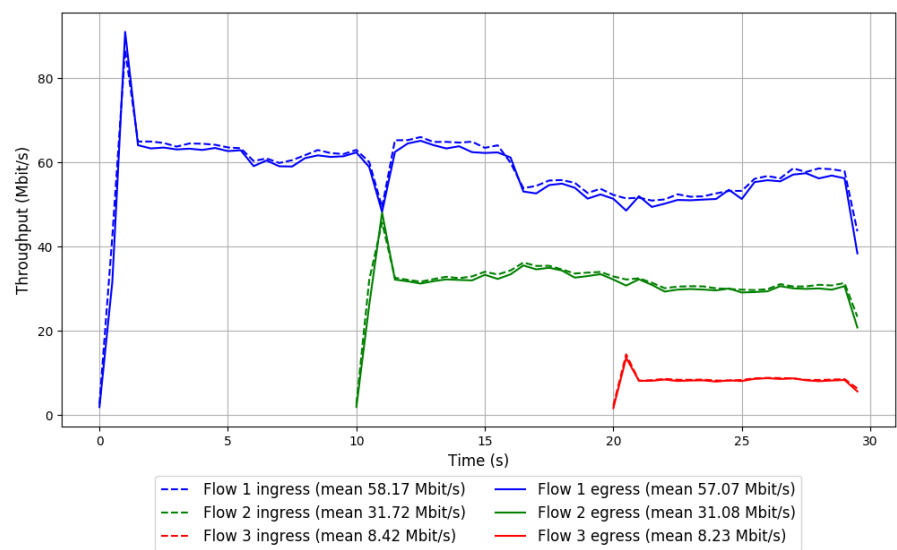


Run 4: Statistics of PCC-Allegro

Start at: 2018-04-17 14:41:26  
End at: 2018-04-17 14:41:56  
Local clock offset: 4.463 ms  
Remote clock offset: -0.808 ms

# Below is generated by plot.py at 2018-04-17 21:50:55  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 80.42 Mbit/s  
95th percentile per-packet one-way delay: 62.576 ms  
Loss rate: 2.22%  
-- Flow 1:  
Average throughput: 57.07 Mbit/s  
95th percentile per-packet one-way delay: 62.648 ms  
Loss rate: 2.13%  
-- Flow 2:  
Average throughput: 31.08 Mbit/s  
95th percentile per-packet one-way delay: 59.296 ms  
Loss rate: 2.38%  
-- Flow 3:  
Average throughput: 8.23 Mbit/s  
95th percentile per-packet one-way delay: 48.606 ms  
Loss rate: 2.95%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2018-04-17 15:08:14

End at: 2018-04-17 15:08:44

Local clock offset: -1.313 ms

Remote clock offset: 0.097 ms

# Below is generated by plot.py at 2018-04-17 21:50:55

# Datalink statistics

-- Total of 3 flows:

Average throughput: 84.28 Mbit/s

95th percentile per-packet one-way delay: 67.578 ms

Loss rate: 1.36%

-- Flow 1:

Average throughput: 57.80 Mbit/s

95th percentile per-packet one-way delay: 67.662 ms

Loss rate: 1.29%

-- Flow 2:

Average throughput: 36.03 Mbit/s

95th percentile per-packet one-way delay: 66.135 ms

Loss rate: 1.46%

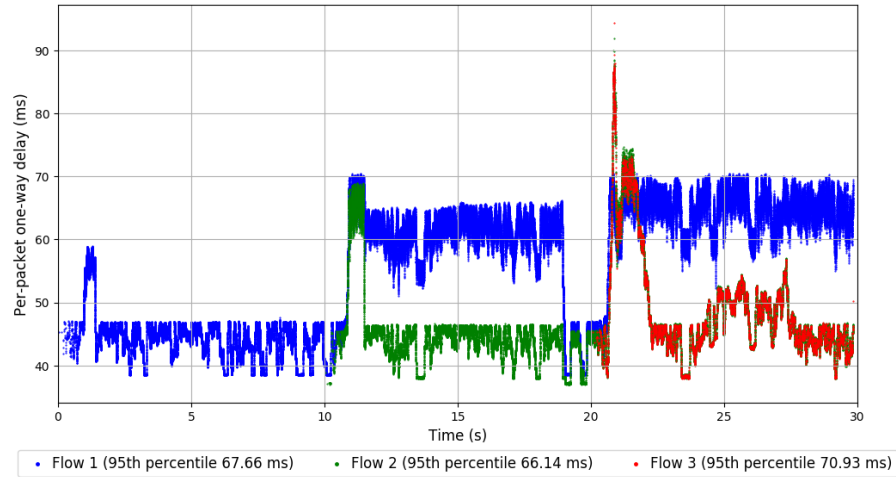
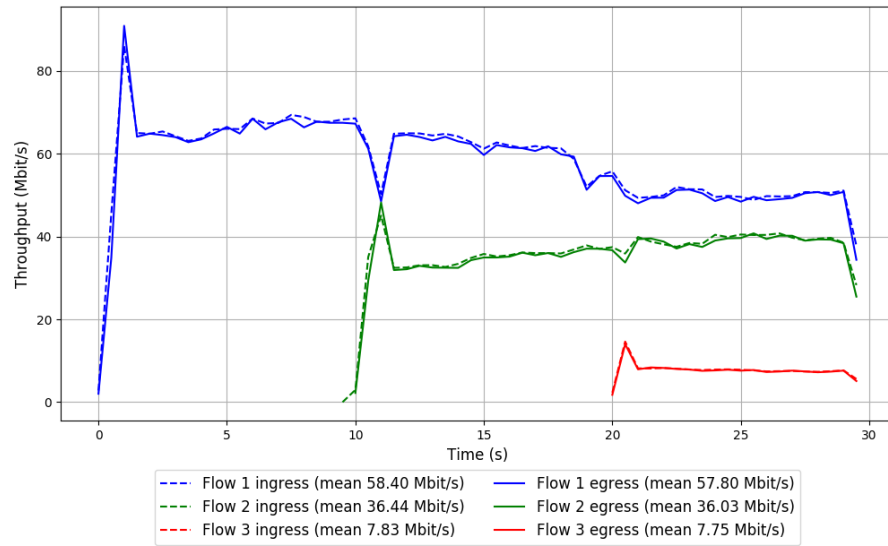
-- Flow 3:

Average throughput: 7.75 Mbit/s

95th percentile per-packet one-way delay: 70.926 ms

Loss rate: 1.79%

## Run 5: Report of PCC-Allegro — Data Link

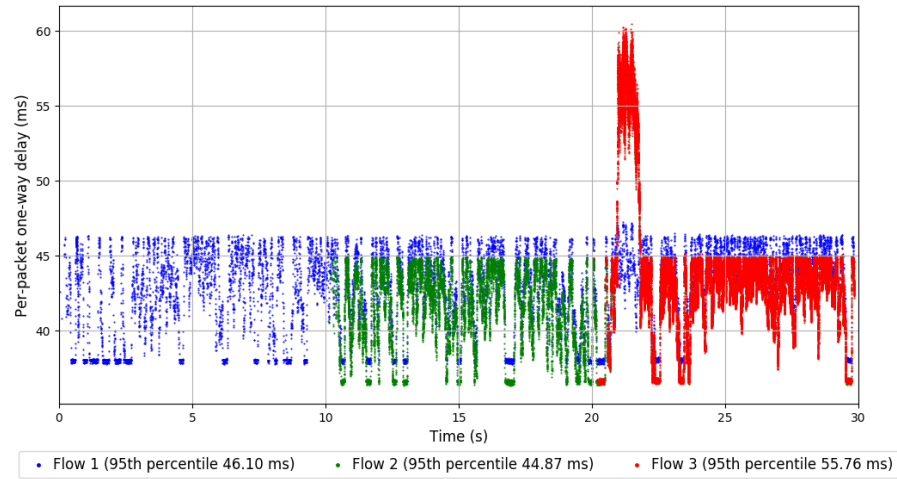
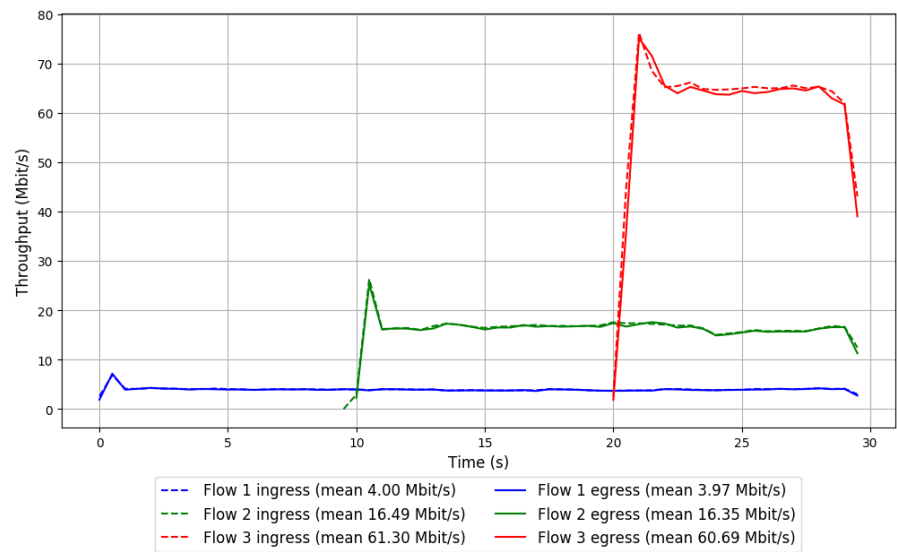


Run 6: Statistics of PCC-Allegro

Start at: 2018-04-17 15:36:25  
End at: 2018-04-17 15:36:55  
Local clock offset: -2.642 ms  
Remote clock offset: -6.817 ms

# Below is generated by plot.py at 2018-04-17 21:50:55  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 34.76 Mbit/s  
95th percentile per-packet one-way delay: 54.483 ms  
Loss rate: 1.50%  
-- Flow 1:  
Average throughput: 3.97 Mbit/s  
95th percentile per-packet one-way delay: 46.101 ms  
Loss rate: 1.05%  
-- Flow 2:  
Average throughput: 16.35 Mbit/s  
95th percentile per-packet one-way delay: 44.866 ms  
Loss rate: 1.19%  
-- Flow 3:  
Average throughput: 60.69 Mbit/s  
95th percentile per-packet one-way delay: 55.761 ms  
Loss rate: 1.75%

Run 6: Report of PCC-Allegro — Data Link



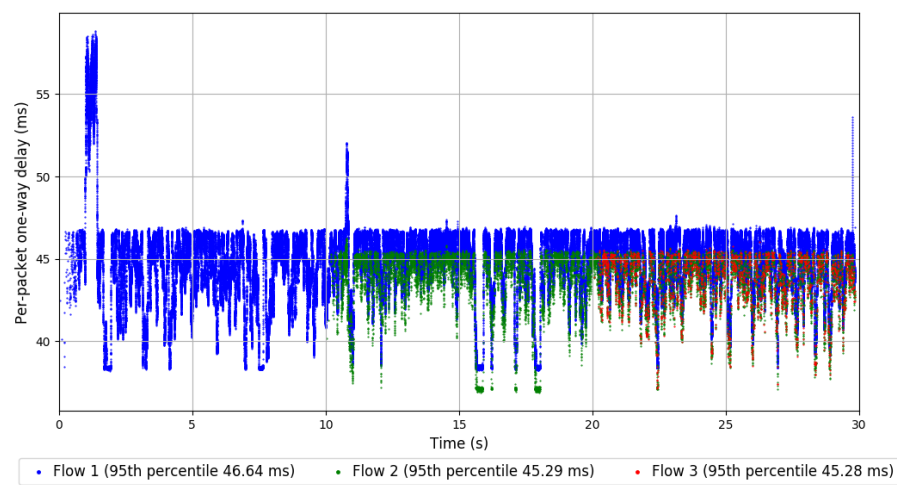
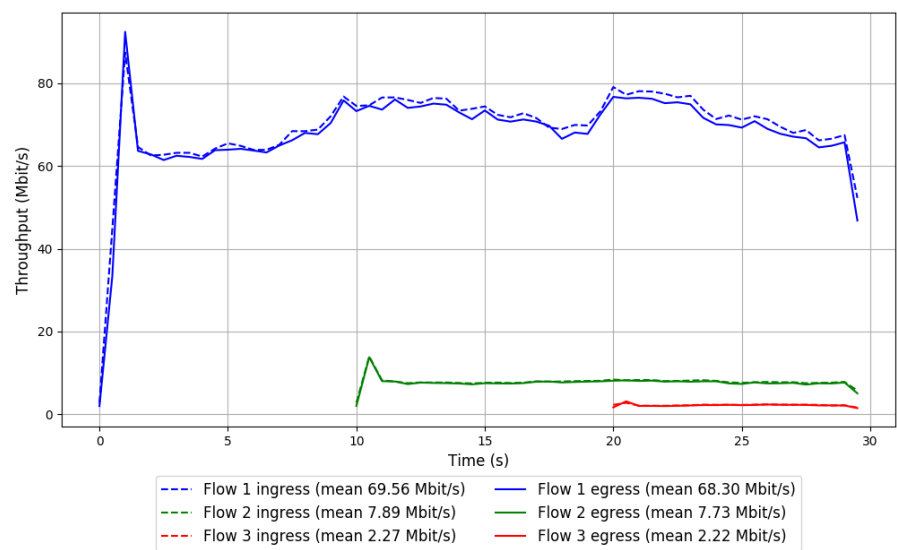


Run 7: Statistics of PCC-Allegro

Start at: 2018-04-17 16:04:54  
End at: 2018-04-17 16:05:24  
Local clock offset: -0.316 ms  
Remote clock offset: -6.396 ms

# Below is generated by plot.py at 2018-04-17 21:50:55  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 74.16 Mbit/s  
95th percentile per-packet one-way delay: 46.622 ms  
Loss rate: 2.09%  
-- Flow 1:  
Average throughput: 68.30 Mbit/s  
95th percentile per-packet one-way delay: 46.637 ms  
Loss rate: 2.05%  
-- Flow 2:  
Average throughput: 7.73 Mbit/s  
95th percentile per-packet one-way delay: 45.286 ms  
Loss rate: 2.47%  
-- Flow 3:  
Average throughput: 2.22 Mbit/s  
95th percentile per-packet one-way delay: 45.285 ms  
Loss rate: 3.01%

Run 7: Report of PCC-Allegro — Data Link

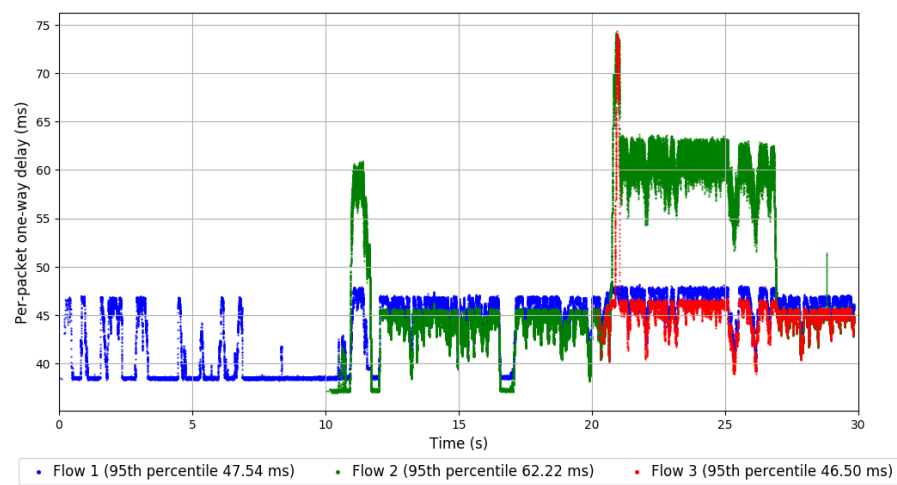
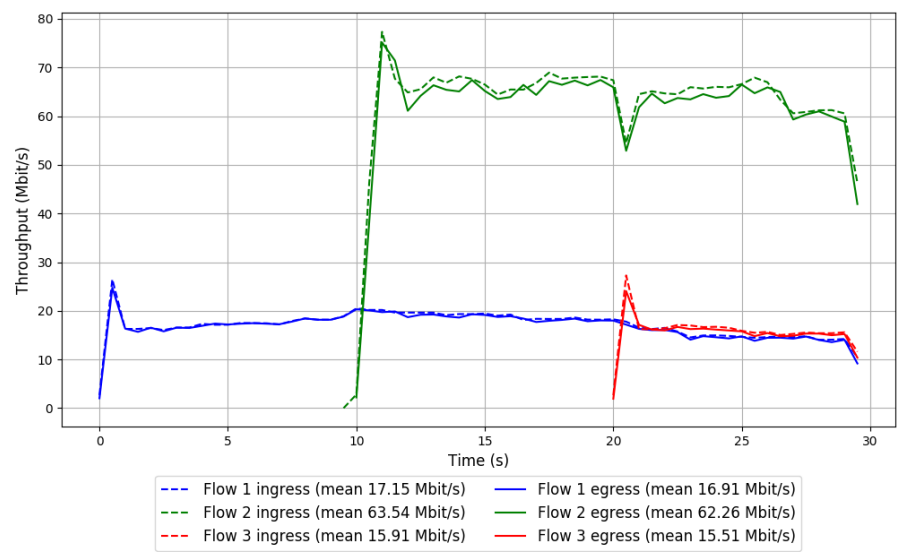


Run 8: Statistics of PCC-Allegro

Start at: 2018-04-17 16:31:54  
End at: 2018-04-17 16:32:24  
Local clock offset: -0.028 ms  
Remote clock offset: -3.182 ms

# Below is generated by plot.py at 2018-04-17 21:50:57  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 63.38 Mbit/s  
95th percentile per-packet one-way delay: 61.859 ms  
Loss rate: 2.21%  
-- Flow 1:  
Average throughput: 16.91 Mbit/s  
95th percentile per-packet one-way delay: 47.539 ms  
Loss rate: 1.59%  
-- Flow 2:  
Average throughput: 62.26 Mbit/s  
95th percentile per-packet one-way delay: 62.218 ms  
Loss rate: 2.33%  
-- Flow 3:  
Average throughput: 15.51 Mbit/s  
95th percentile per-packet one-way delay: 46.504 ms  
Loss rate: 3.24%

Run 8: Report of PCC-Allegro — Data Link

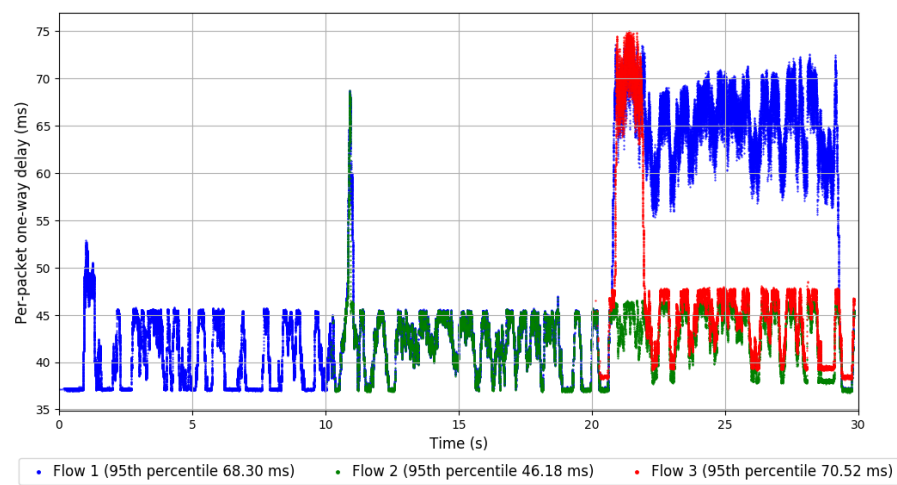
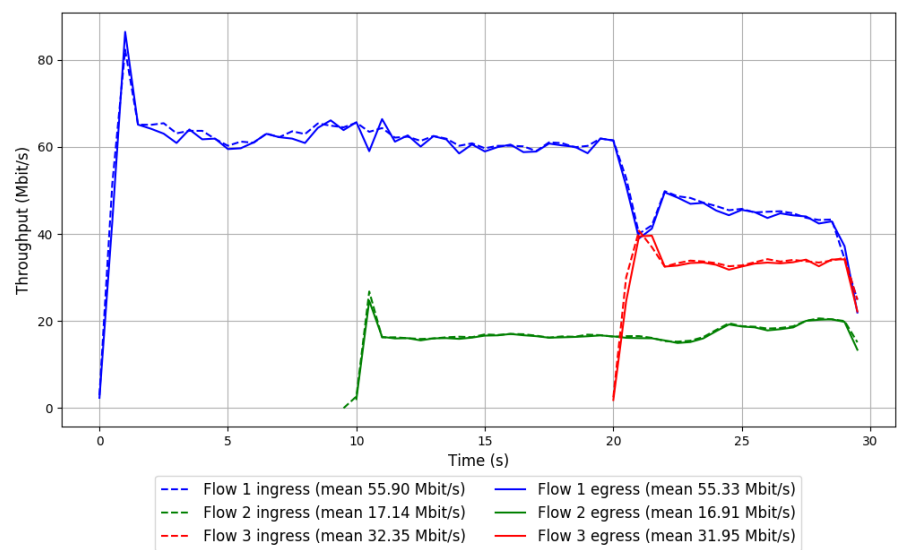


Run 9: Statistics of PCC-Allegro

Start at: 2018-04-17 16:57:23  
End at: 2018-04-17 16:57:53  
Local clock offset: 0.511 ms  
Remote clock offset: -1.857 ms

# Below is generated by plot.py at 2018-04-17 21:51:31  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 77.06 Mbit/s  
95th percentile per-packet one-way delay: 68.189 ms  
Loss rate: 1.40%  
-- Flow 1:  
Average throughput: 55.33 Mbit/s  
95th percentile per-packet one-way delay: 68.301 ms  
Loss rate: 1.23%  
-- Flow 2:  
Average throughput: 16.91 Mbit/s  
95th percentile per-packet one-way delay: 46.177 ms  
Loss rate: 1.64%  
-- Flow 3:  
Average throughput: 31.95 Mbit/s  
95th percentile per-packet one-way delay: 70.519 ms  
Loss rate: 2.01%

Run 9: Report of PCC-Allegro — Data Link

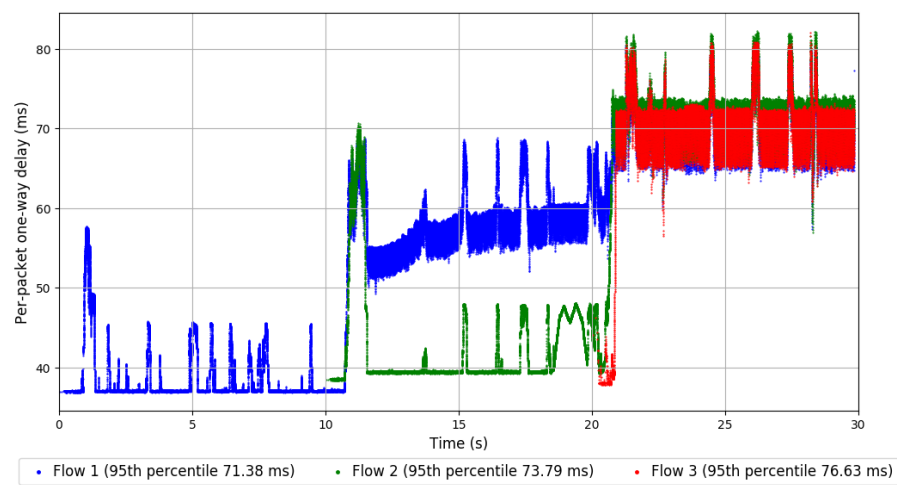
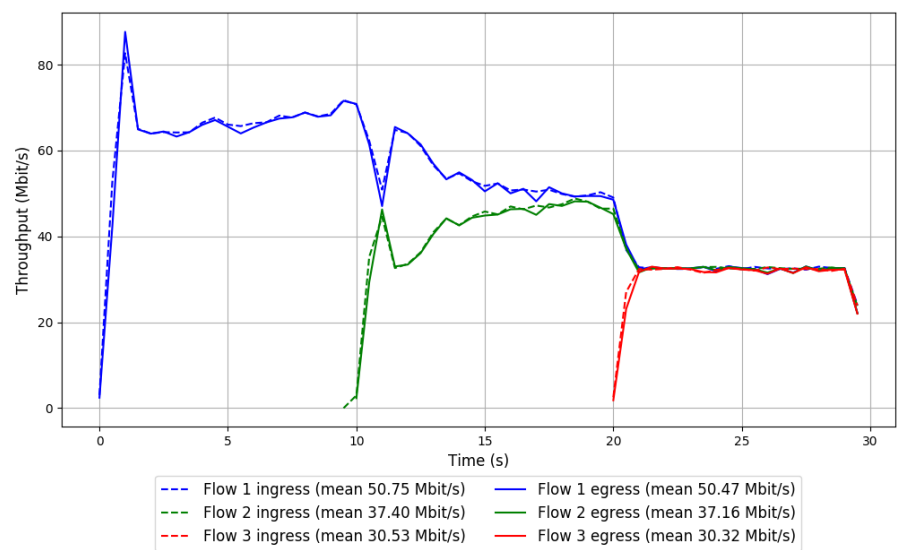


Run 10: Statistics of PCC-Allegro

Start at: 2018-04-17 17:21:32  
End at: 2018-04-17 17:22:02  
Local clock offset: 0.9 ms  
Remote clock offset: -2.615 ms

# Below is generated by plot.py at 2018-04-17 21:52:22  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 85.13 Mbit/s  
95th percentile per-packet one-way delay: 73.143 ms  
Loss rate: 0.95%  
-- Flow 1:  
Average throughput: 50.47 Mbit/s  
95th percentile per-packet one-way delay: 71.382 ms  
Loss rate: 0.79%  
-- Flow 2:  
Average throughput: 37.16 Mbit/s  
95th percentile per-packet one-way delay: 73.790 ms  
Loss rate: 1.03%  
-- Flow 3:  
Average throughput: 30.32 Mbit/s  
95th percentile per-packet one-way delay: 76.627 ms  
Loss rate: 1.56%

Run 10: Report of PCC-Allegro — Data Link



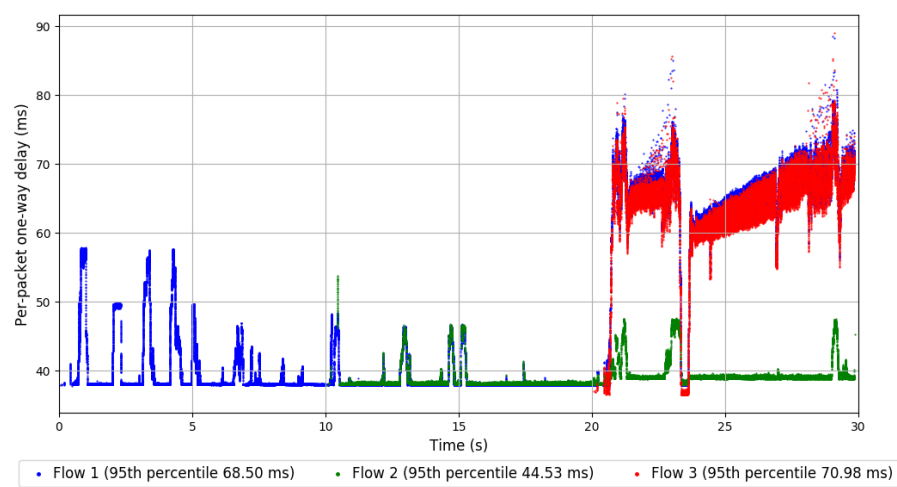
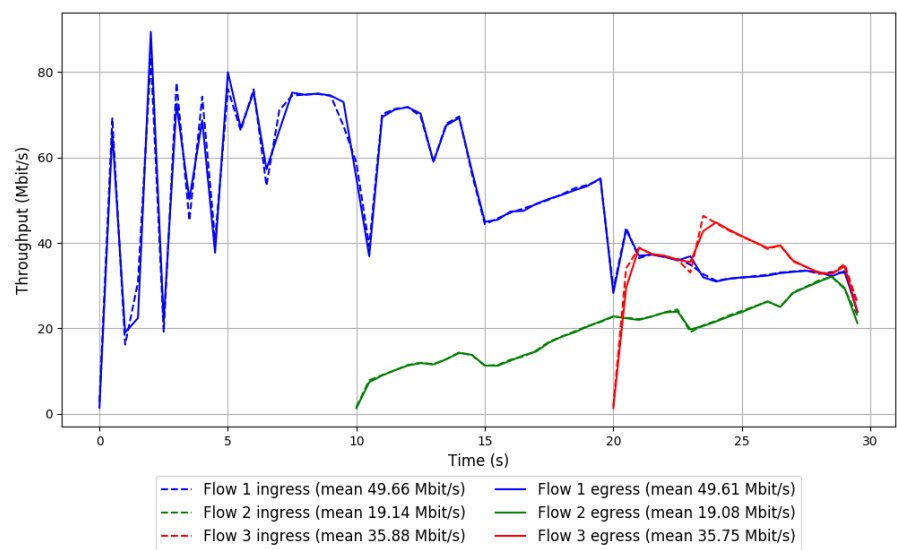


Run 1: Statistics of QUIC Cubic

Start at: 2018-04-17 13:22:49  
End at: 2018-04-17 13:23:19  
Local clock offset: -0.527 ms  
Remote clock offset: -1.352 ms

# Below is generated by plot.py at 2018-04-17 21:52:22  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 74.02 Mbit/s  
95th percentile per-packet one-way delay: 68.915 ms  
Loss rate: 0.52%  
-- Flow 1:  
Average throughput: 49.61 Mbit/s  
95th percentile per-packet one-way delay: 68.497 ms  
Loss rate: 0.36%  
-- Flow 2:  
Average throughput: 19.08 Mbit/s  
95th percentile per-packet one-way delay: 44.529 ms  
Loss rate: 0.64%  
-- Flow 3:  
Average throughput: 35.75 Mbit/s  
95th percentile per-packet one-way delay: 70.978 ms  
Loss rate: 1.03%

Run 1: Report of QUIC Cubic — Data Link

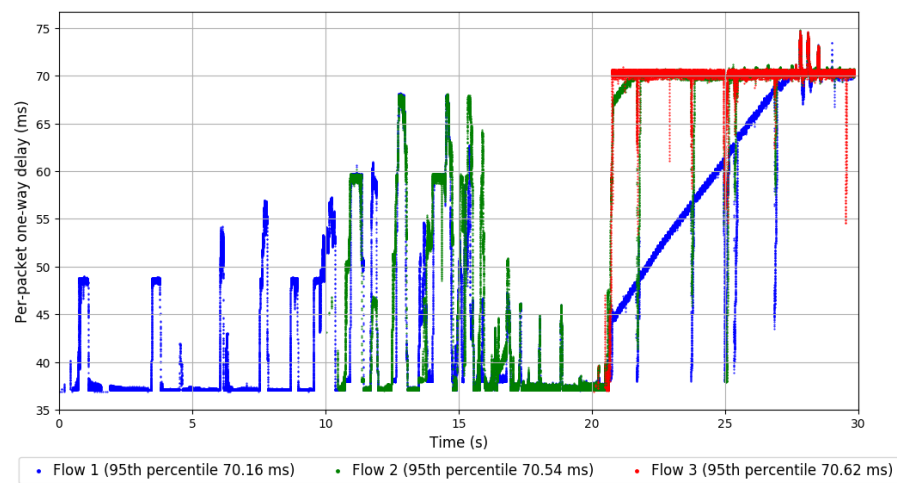
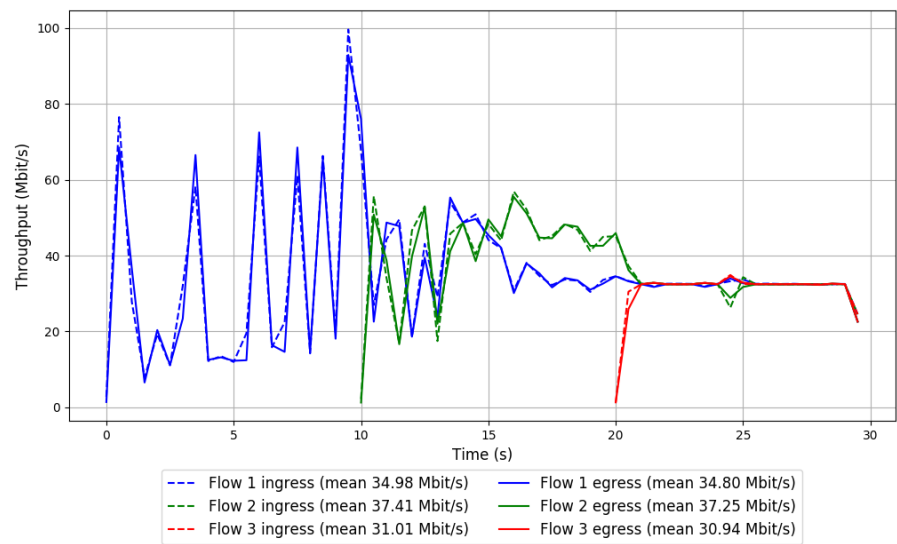


Run 2: Statistics of QUIC Cubic

Start at: 2018-04-17 13:46:33  
End at: 2018-04-17 13:47:03  
Local clock offset: 3.133 ms  
Remote clock offset: -2.471 ms

# Below is generated by plot.py at 2018-04-17 21:52:22  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 69.69 Mbit/s  
95th percentile per-packet one-way delay: 70.538 ms  
Loss rate: 0.84%  
-- Flow 1:  
Average throughput: 34.80 Mbit/s  
95th percentile per-packet one-way delay: 70.160 ms  
Loss rate: 0.73%  
-- Flow 2:  
Average throughput: 37.25 Mbit/s  
95th percentile per-packet one-way delay: 70.537 ms  
Loss rate: 0.88%  
-- Flow 3:  
Average throughput: 30.94 Mbit/s  
95th percentile per-packet one-way delay: 70.623 ms  
Loss rate: 1.07%

Run 2: Report of QUIC Cubic — Data Link

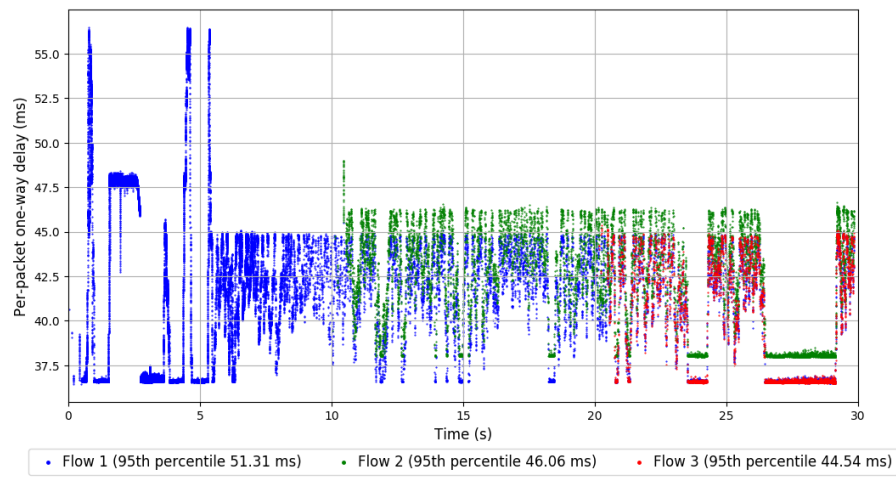
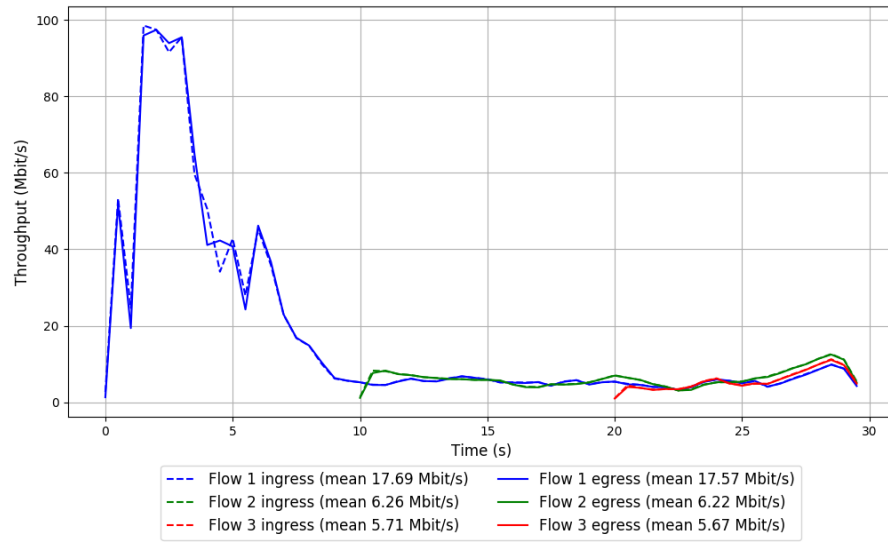


Run 3: Statistics of QUIC Cubic

Start at: 2018-04-17 14:11:13  
End at: 2018-04-17 14:11:43  
Local clock offset: 8.693 ms  
Remote clock offset: -1.292 ms

# Below is generated by plot.py at 2018-04-17 21:52:22  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 23.56 Mbit/s  
95th percentile per-packet one-way delay: 48.214 ms  
Loss rate: 0.97%  
-- Flow 1:  
Average throughput: 17.57 Mbit/s  
95th percentile per-packet one-way delay: 51.307 ms  
Loss rate: 0.91%  
-- Flow 2:  
Average throughput: 6.22 Mbit/s  
95th percentile per-packet one-way delay: 46.062 ms  
Loss rate: 1.01%  
-- Flow 3:  
Average throughput: 5.67 Mbit/s  
95th percentile per-packet one-way delay: 44.542 ms  
Loss rate: 1.51%

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

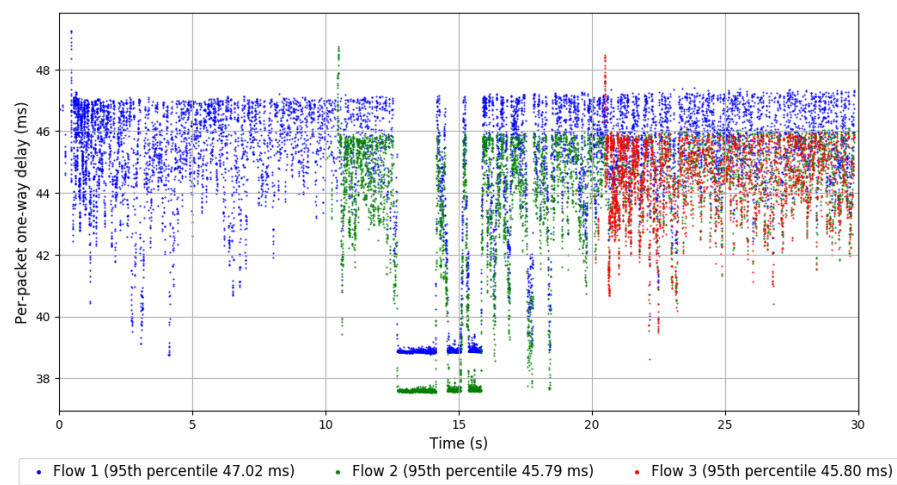
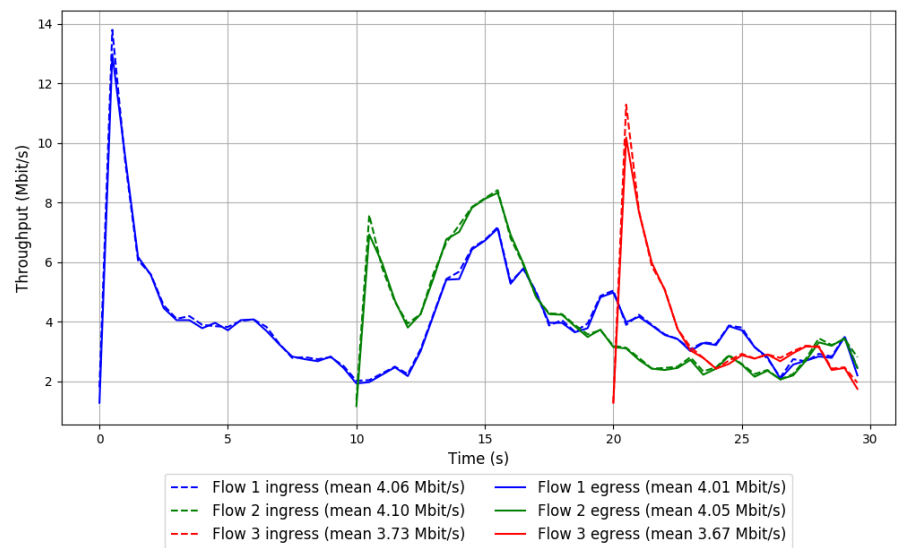


Run 4: Statistics of QUIC Cubic

Start at: 2018-04-17 14:40:01  
End at: 2018-04-17 14:40:31  
Local clock offset: 5.169 ms  
Remote clock offset: -0.852 ms

# Below is generated by plot.py at 2018-04-17 21:52:22  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 7.90 Mbit/s  
95th percentile per-packet one-way delay: 46.919 ms  
Loss rate: 1.68%  
-- Flow 1:  
Average throughput: 4.01 Mbit/s  
95th percentile per-packet one-way delay: 47.023 ms  
Loss rate: 1.55%  
-- Flow 2:  
Average throughput: 4.05 Mbit/s  
95th percentile per-packet one-way delay: 45.794 ms  
Loss rate: 1.51%  
-- Flow 3:  
Average throughput: 3.67 Mbit/s  
95th percentile per-packet one-way delay: 45.801 ms  
Loss rate: 2.49%

Run 4: Report of QUIC Cubic — Data Link





Run 5: Statistics of QUIC Cubic

Start at: 2018-04-17 15:06:48

End at: 2018-04-17 15:07:18

Local clock offset: -1.515 ms

Remote clock offset: 0.545 ms

# Below is generated by plot.py at 2018-04-17 21:52:22

# Datalink statistics

-- Total of 3 flows:

Average throughput: 17.02 Mbit/s

95th percentile per-packet one-way delay: 52.870 ms

Loss rate: 0.98%

-- Flow 1:

Average throughput: 6.40 Mbit/s

95th percentile per-packet one-way delay: 44.709 ms

Loss rate: 0.93%

-- Flow 2:

Average throughput: 13.05 Mbit/s

95th percentile per-packet one-way delay: 55.800 ms

Loss rate: 0.92%

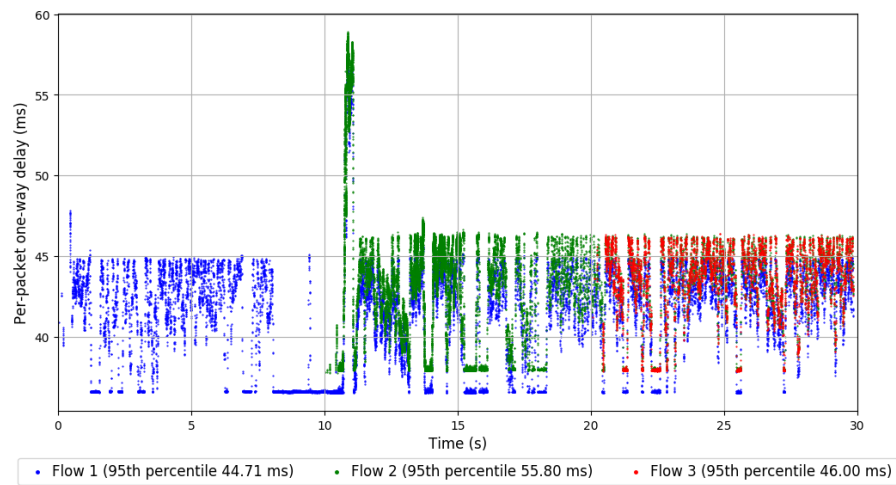
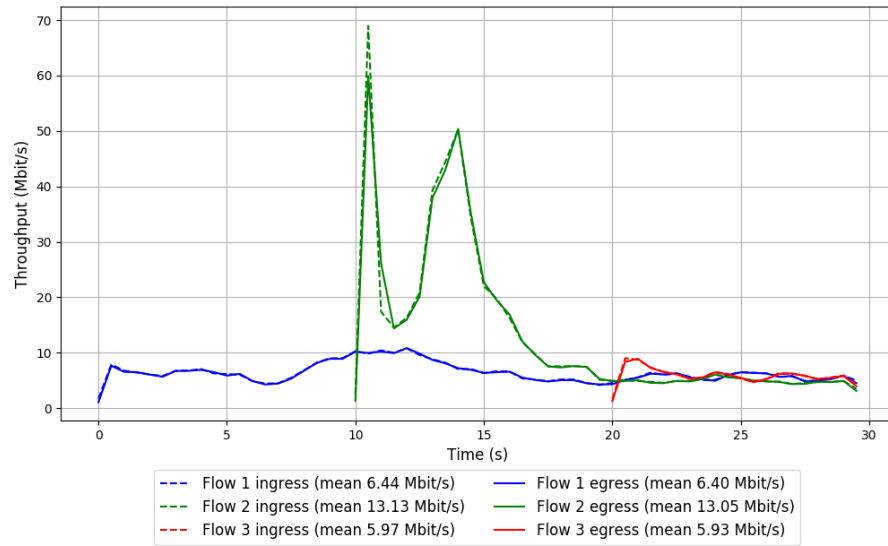
-- Flow 3:

Average throughput: 5.93 Mbit/s

95th percentile per-packet one-way delay: 46.003 ms

Loss rate: 1.38%

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

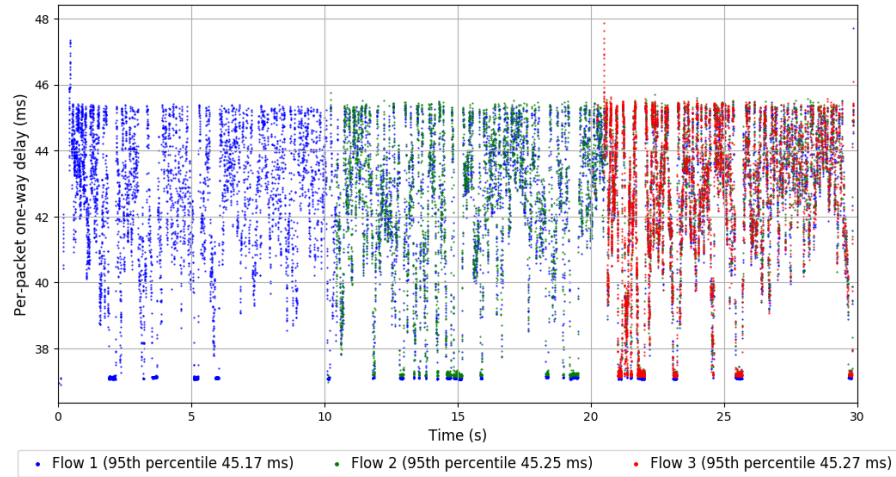
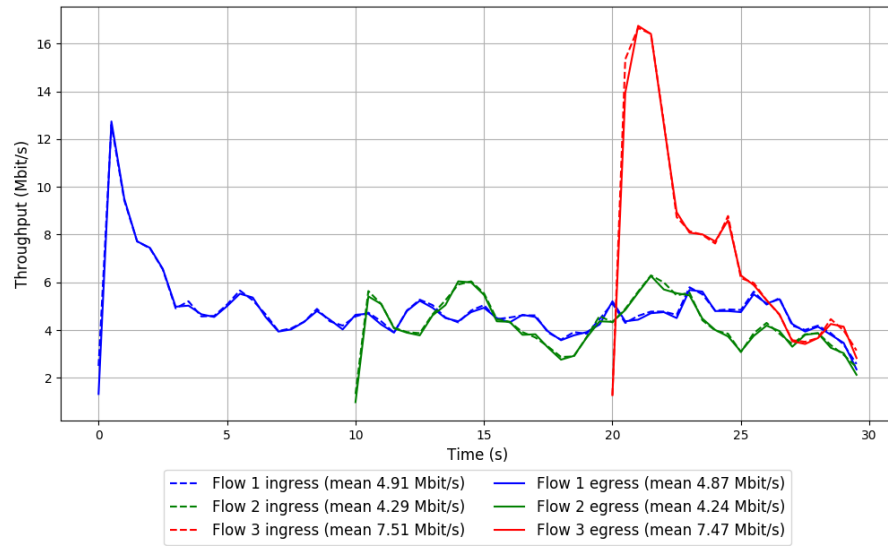


Run 6: Statistics of QUIC Cubic

Start at: 2018-04-17 15:35:03  
End at: 2018-04-17 15:35:33  
Local clock offset: -2.441 ms  
Remote clock offset: -7.089 ms

# Below is generated by plot.py at 2018-04-17 21:52:22  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 10.14 Mbit/s  
95th percentile per-packet one-way delay: 45.215 ms  
Loss rate: 1.20%  
-- Flow 1:  
Average throughput: 4.87 Mbit/s  
95th percentile per-packet one-way delay: 45.171 ms  
Loss rate: 1.08%  
-- Flow 2:  
Average throughput: 4.24 Mbit/s  
95th percentile per-packet one-way delay: 45.251 ms  
Loss rate: 1.41%  
-- Flow 3:  
Average throughput: 7.47 Mbit/s  
95th percentile per-packet one-way delay: 45.270 ms  
Loss rate: 1.21%

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

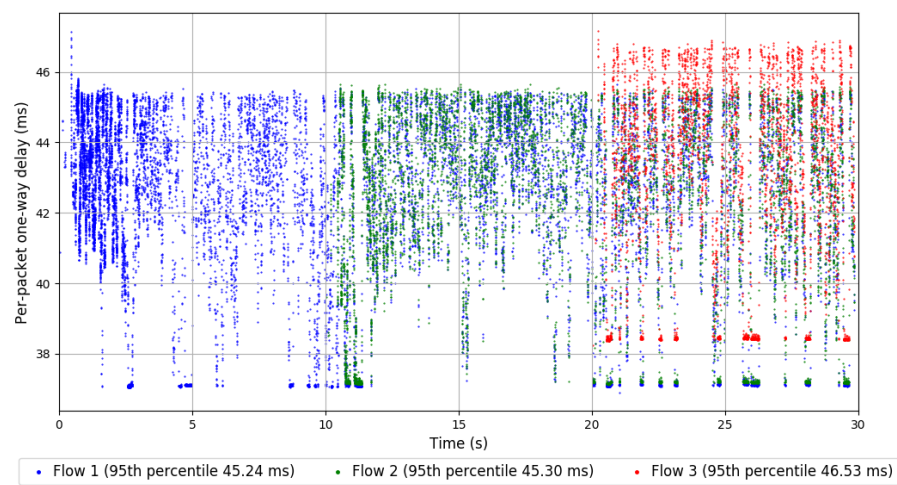
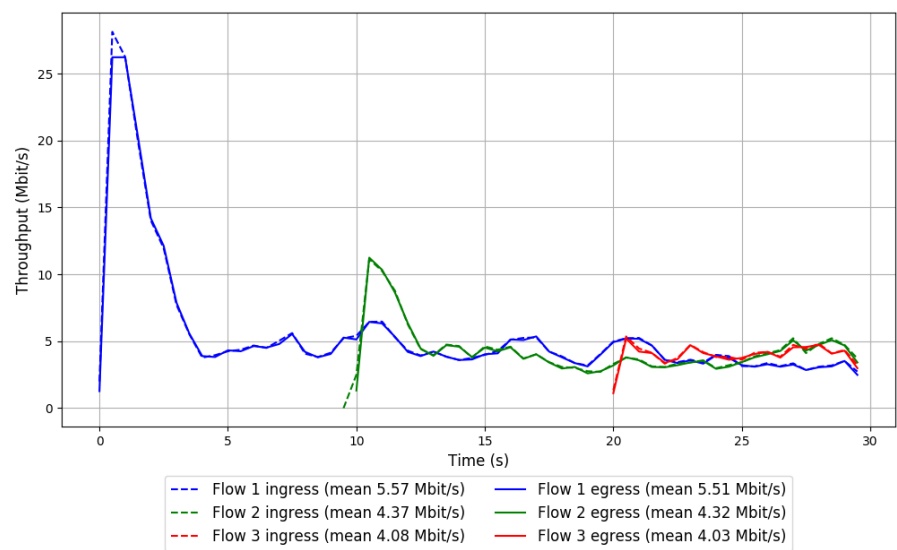


Run 7: Statistics of QUIC Cubic

Start at: 2018-04-17 16:03:30  
End at: 2018-04-17 16:04:00  
Local clock offset: -0.314 ms  
Remote clock offset: -6.361 ms

# Below is generated by plot.py at 2018-04-17 21:52:22  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 9.70 Mbit/s  
95th percentile per-packet one-way delay: 45.378 ms  
Loss rate: 1.42%  
-- Flow 1:  
Average throughput: 5.51 Mbit/s  
95th percentile per-packet one-way delay: 45.236 ms  
Loss rate: 1.25%  
-- Flow 2:  
Average throughput: 4.32 Mbit/s  
95th percentile per-packet one-way delay: 45.296 ms  
Loss rate: 1.60%  
-- Flow 3:  
Average throughput: 4.03 Mbit/s  
95th percentile per-packet one-way delay: 46.528 ms  
Loss rate: 1.72%

Run 7: Report of QUIC Cubic — Data Link

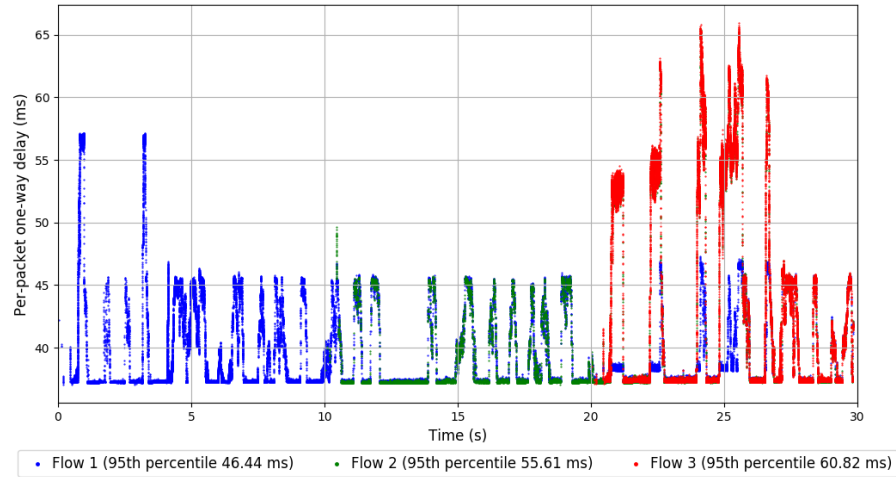
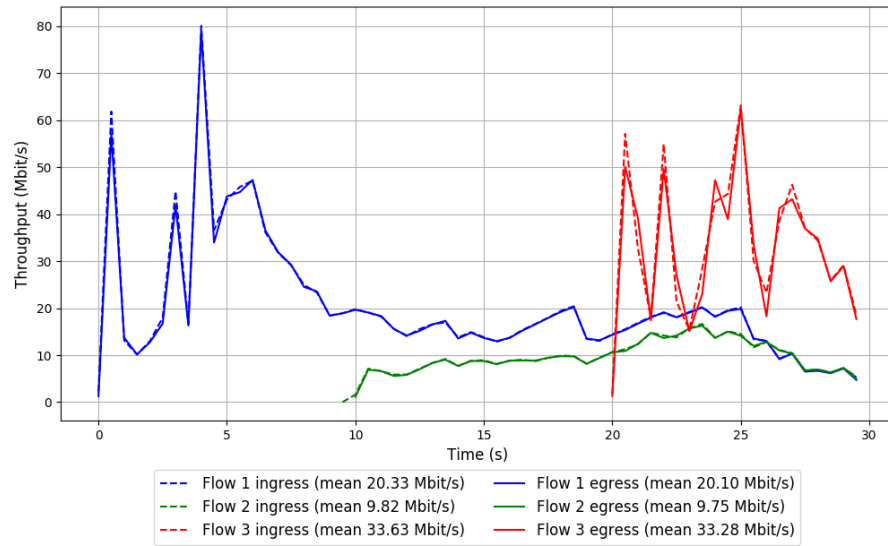


Run 8: Statistics of QUIC Cubic

Start at: 2018-04-17 16:30:30  
End at: 2018-04-17 16:31:00  
Local clock offset: 0.007 ms  
Remote clock offset: -3.459 ms

# Below is generated by plot.py at 2018-04-17 21:52:22  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 37.51 Mbit/s  
95th percentile per-packet one-way delay: 56.643 ms  
Loss rate: 1.41%  
-- Flow 1:  
Average throughput: 20.10 Mbit/s  
95th percentile per-packet one-way delay: 46.441 ms  
Loss rate: 1.38%  
-- Flow 2:  
Average throughput: 9.75 Mbit/s  
95th percentile per-packet one-way delay: 55.610 ms  
Loss rate: 0.99%  
-- Flow 3:  
Average throughput: 33.28 Mbit/s  
95th percentile per-packet one-way delay: 60.821 ms  
Loss rate: 1.72%

## Run 8: Report of QUIC Cubic — Data Link



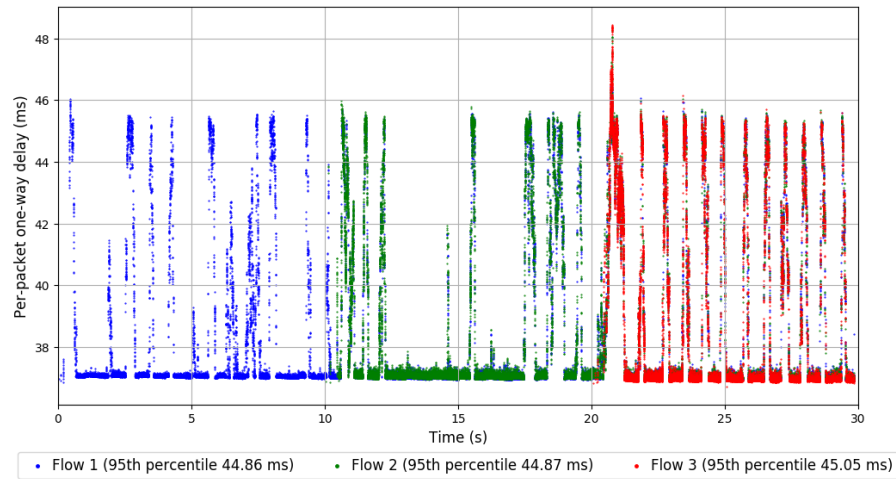
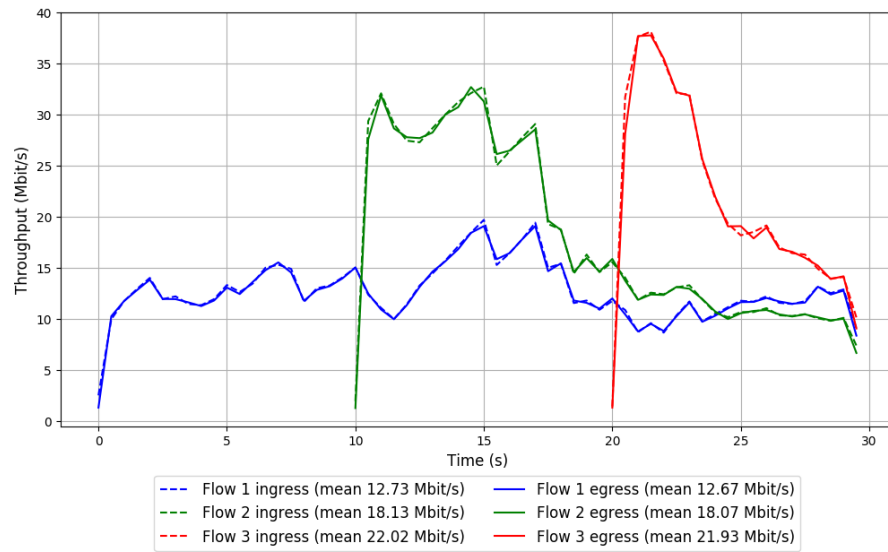


Run 9: Statistics of QUIC Cubic

Start at: 2018-04-17 16:55:57  
End at: 2018-04-17 16:56:27  
Local clock offset: 0.448 ms  
Remote clock offset: -1.582 ms

# Below is generated by plot.py at 2018-04-17 21:52:22  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 31.87 Mbit/s  
95th percentile per-packet one-way delay: 44.927 ms  
Loss rate: 0.78%  
-- Flow 1:  
Average throughput: 12.67 Mbit/s  
95th percentile per-packet one-way delay: 44.856 ms  
Loss rate: 0.69%  
-- Flow 2:  
Average throughput: 18.07 Mbit/s  
95th percentile per-packet one-way delay: 44.870 ms  
Loss rate: 0.69%  
-- Flow 3:  
Average throughput: 21.93 Mbit/s  
95th percentile per-packet one-way delay: 45.051 ms  
Loss rate: 1.10%

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

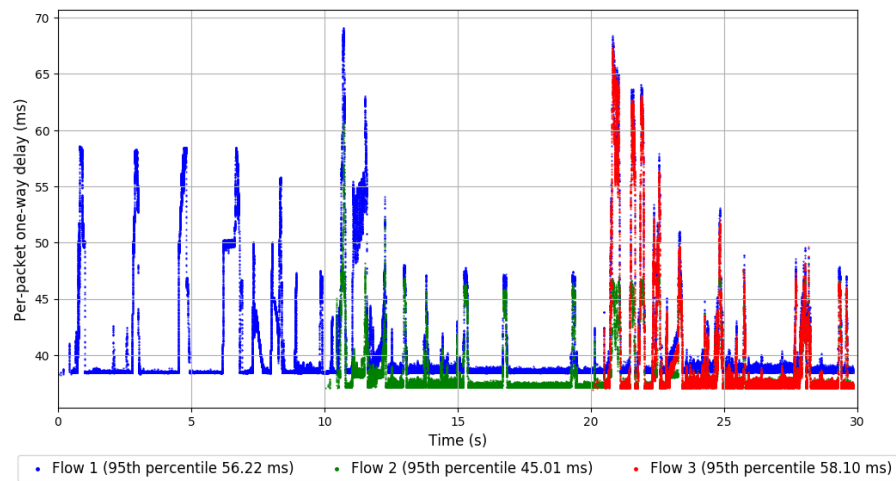
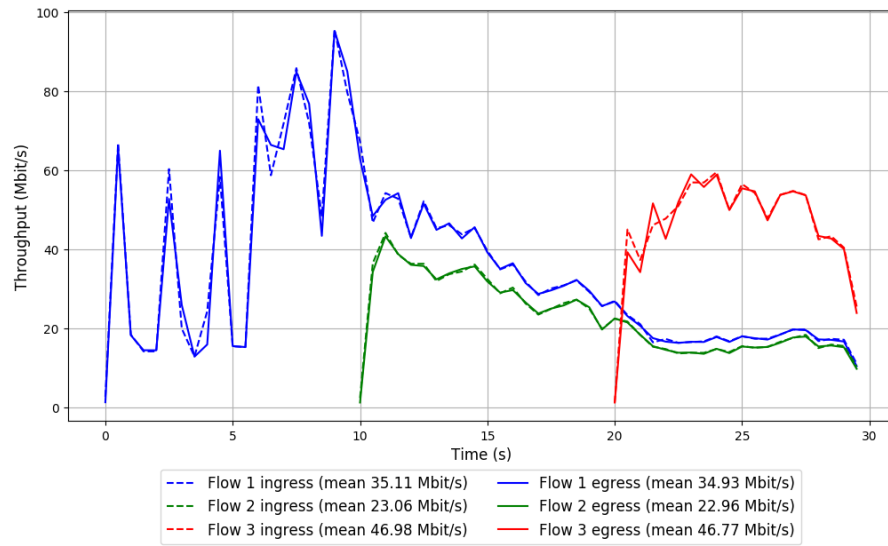


Run 10: Statistics of QUIC Cubic

Start at: 2018-04-17 17:20:07  
End at: 2018-04-17 17:20:37  
Local clock offset: 0.931 ms  
Remote clock offset: -2.653 ms

# Below is generated by plot.py at 2018-04-17 21:52:40  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 65.52 Mbit/s  
95th percentile per-packet one-way delay: 55.128 ms  
Loss rate: 0.83%  
-- Flow 1:  
Average throughput: 34.93 Mbit/s  
95th percentile per-packet one-way delay: 56.223 ms  
Loss rate: 0.74%  
-- Flow 2:  
Average throughput: 22.96 Mbit/s  
95th percentile per-packet one-way delay: 45.012 ms  
Loss rate: 0.74%  
-- Flow 3:  
Average throughput: 46.77 Mbit/s  
95th percentile per-packet one-way delay: 58.097 ms  
Loss rate: 1.11%

# Run 10: Report of QUIC Cubic — Data Link

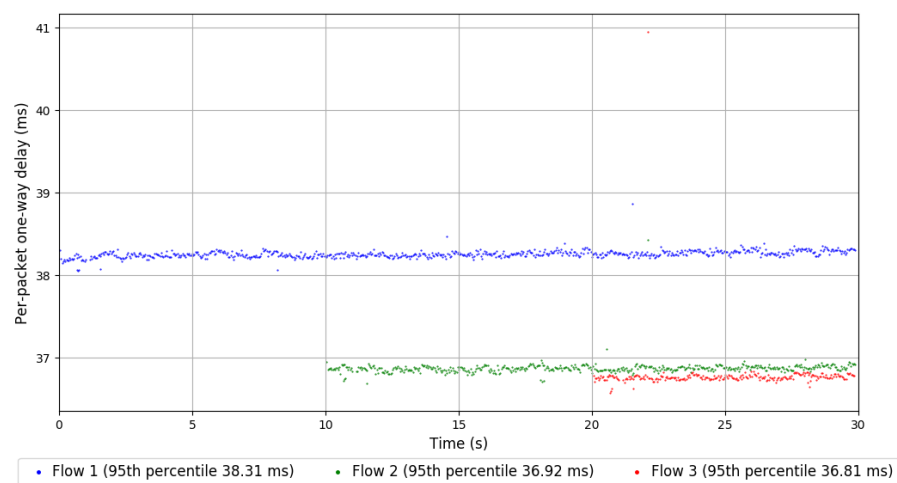
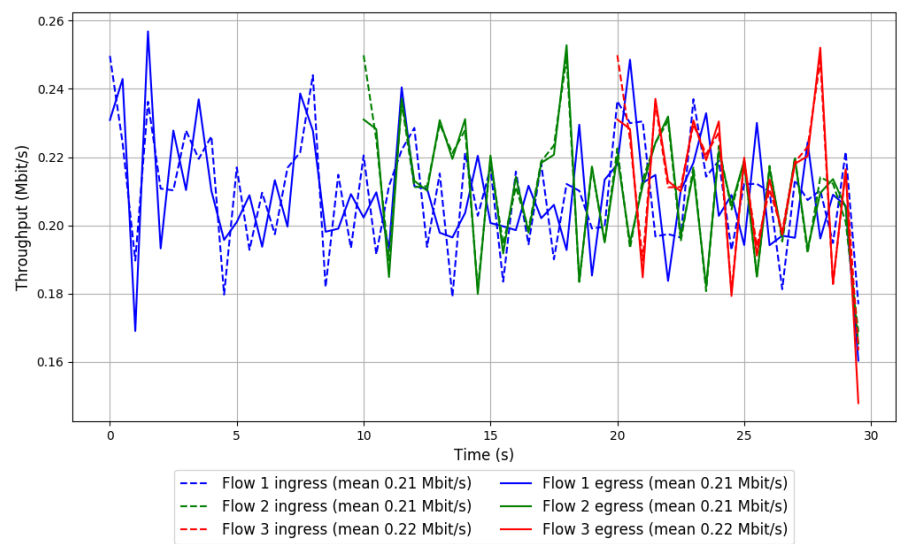


Run 1: Statistics of SReAM

Start at: 2018-04-17 13:04:07  
End at: 2018-04-17 13:04:37  
Local clock offset: 0.499 ms  
Remote clock offset: -1.797 ms

# Below is generated by plot.py at 2018-04-17 21:52:40  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.42 Mbit/s  
95th percentile per-packet one-way delay: 38.305 ms  
Loss rate: 0.32%  
-- Flow 1:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 38.314 ms  
Loss rate: 0.26%  
-- Flow 2:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 36.916 ms  
Loss rate: 0.20%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 36.811 ms  
Loss rate: 0.74%

Run 1: Report of SReAM — Data Link

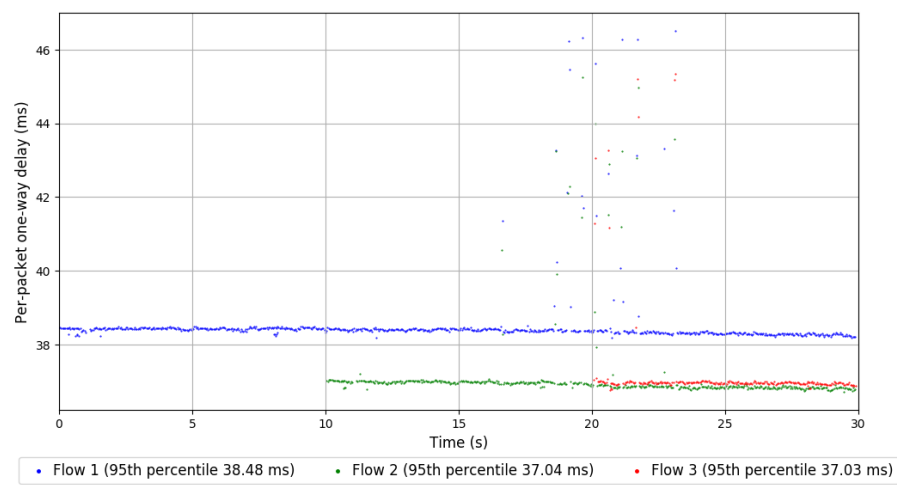
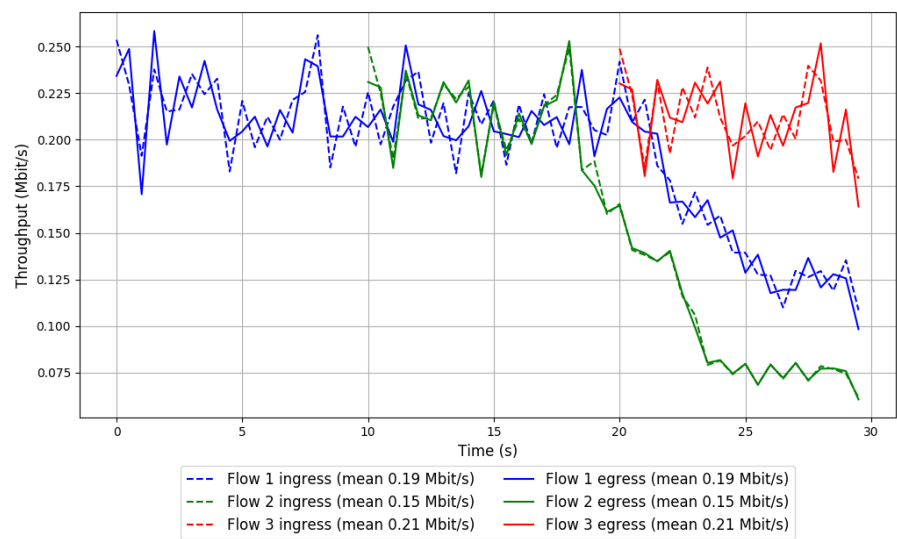


Run 2: Statistics of SCReAM

Start at: 2018-04-17 13:28:10  
End at: 2018-04-17 13:28:40  
Local clock offset: 1.039 ms  
Remote clock offset: -1.649 ms

# Below is generated by plot.py at 2018-04-17 21:52:40  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.37 Mbit/s  
95th percentile per-packet one-way delay: 38.470 ms  
Loss rate: 0.38%  
-- Flow 1:  
Average throughput: 0.19 Mbit/s  
95th percentile per-packet one-way delay: 38.481 ms  
Loss rate: 0.33%  
-- Flow 2:  
Average throughput: 0.15 Mbit/s  
95th percentile per-packet one-way delay: 37.042 ms  
Loss rate: 0.49%  
-- Flow 3:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 37.027 ms  
Loss rate: 0.35%

Run 2: Report of SReAM — Data Link





Run 3: Statistics of SReAM

Start at: 2018-04-17 13:52:00

End at: 2018-04-17 13:52:30

Local clock offset: 3.409 ms

Remote clock offset: -2.03 ms

# Below is generated by plot.py at 2018-04-17 21:52:40

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 36.761 ms

Loss rate: 0.26%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 36.761 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 36.748 ms

Loss rate: 0.21%

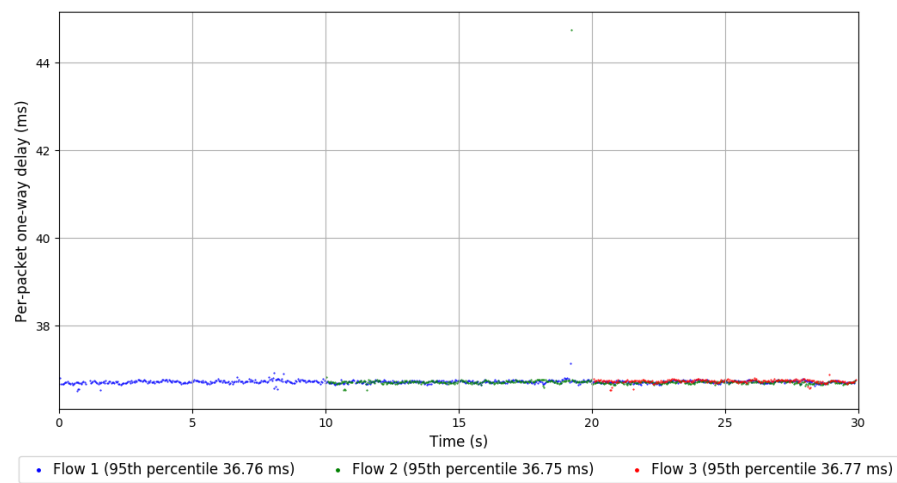
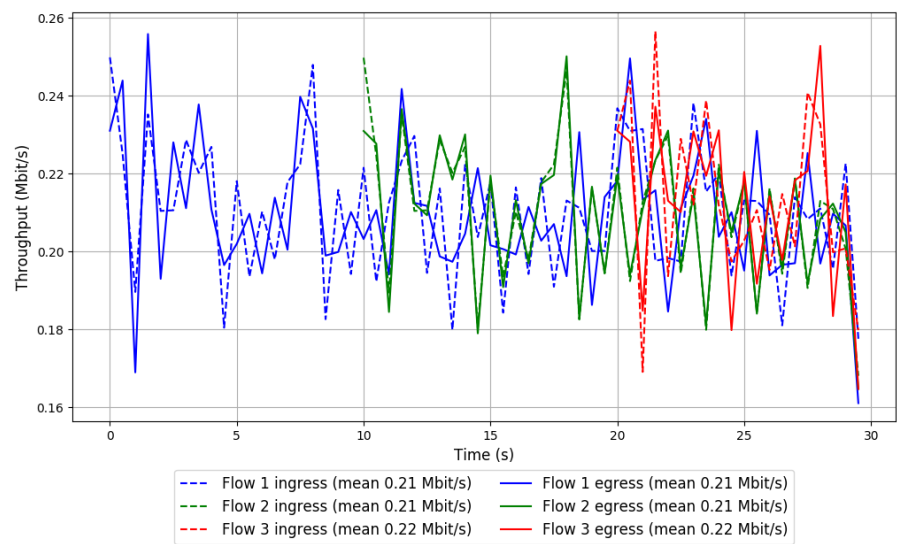
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 36.772 ms

Loss rate: 0.35%

Run 3: Report of SReAM — Data Link

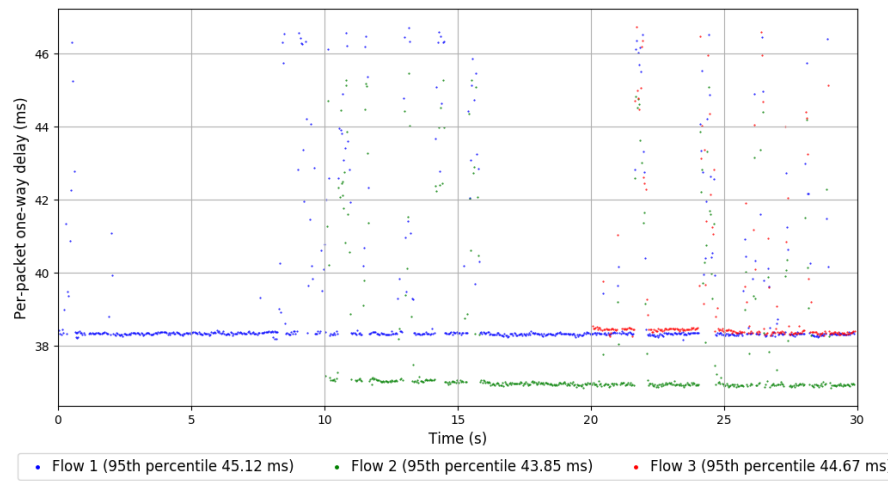
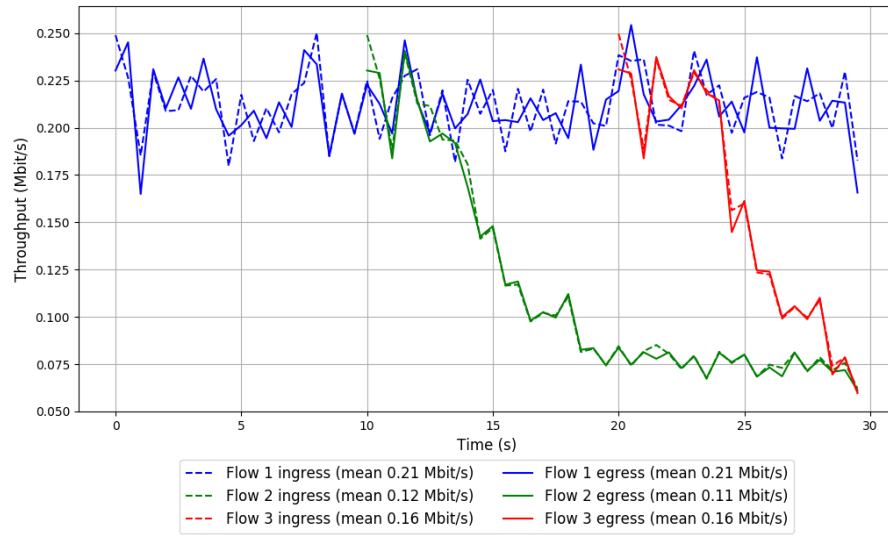


Run 4: Statistics of SCReAM

Start at: 2018-04-17 14:16:41  
End at: 2018-04-17 14:17:11  
Local clock offset: 9.837 ms  
Remote clock offset: -1.518 ms

# Below is generated by plot.py at 2018-04-17 21:52:40  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.34 Mbit/s  
95th percentile per-packet one-way delay: 44.519 ms  
Loss rate: 0.59%  
-- Flow 1:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 45.125 ms  
Loss rate: 0.26%  
-- Flow 2:  
Average throughput: 0.11 Mbit/s  
95th percentile per-packet one-way delay: 43.848 ms  
Loss rate: 1.29%  
-- Flow 3:  
Average throughput: 0.16 Mbit/s  
95th percentile per-packet one-way delay: 44.672 ms  
Loss rate: 0.90%

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



Run 5: Statistics of SReAM

Start at: 2018-04-17 14:45:56

End at: 2018-04-17 14:46:26

Local clock offset: 2.507 ms

Remote clock offset: -0.13 ms

# Below is generated by plot.py at 2018-04-17 21:52:40

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.36 Mbit/s

95th percentile per-packet one-way delay: 42.465 ms

Loss rate: 0.45%

-- Flow 1:

Average throughput: 0.14 Mbit/s

95th percentile per-packet one-way delay: 41.548 ms

Loss rate: 0.54%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 43.628 ms

Loss rate: 0.20%

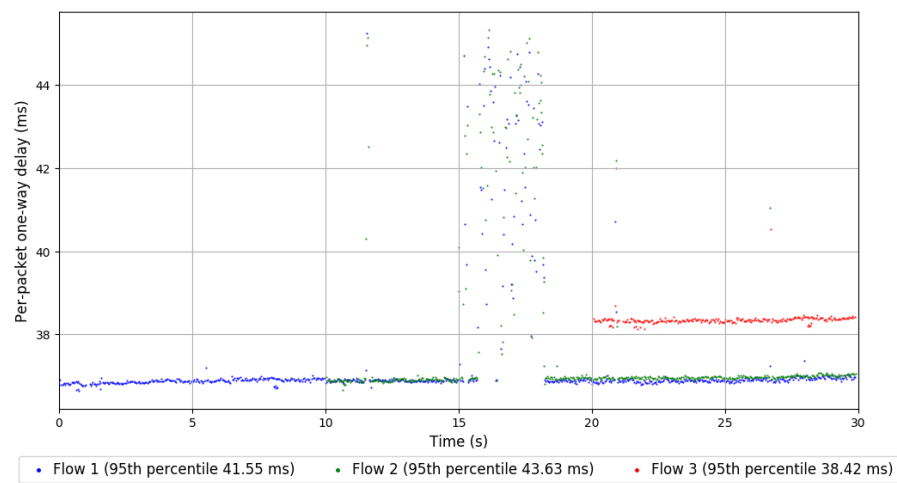
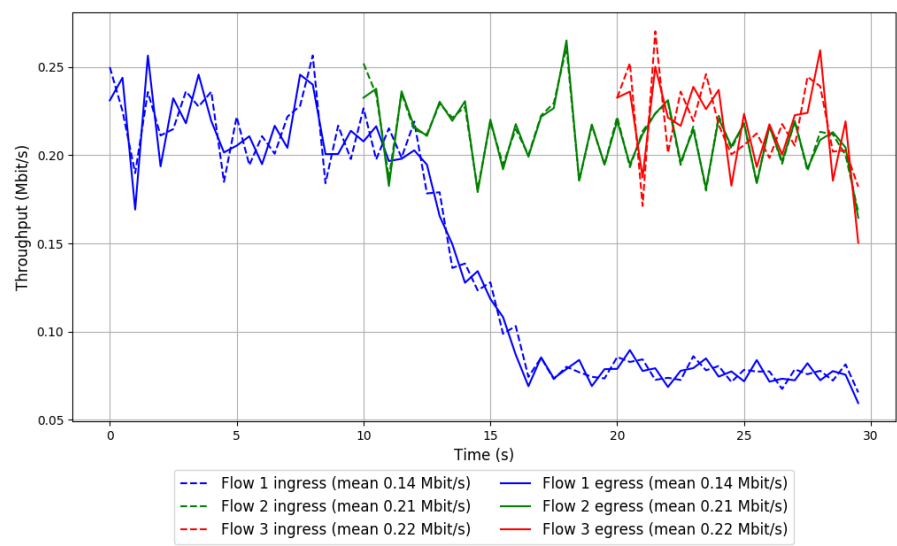
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 38.419 ms

Loss rate: 0.73%

Run 5: Report of SReAM — Data Link

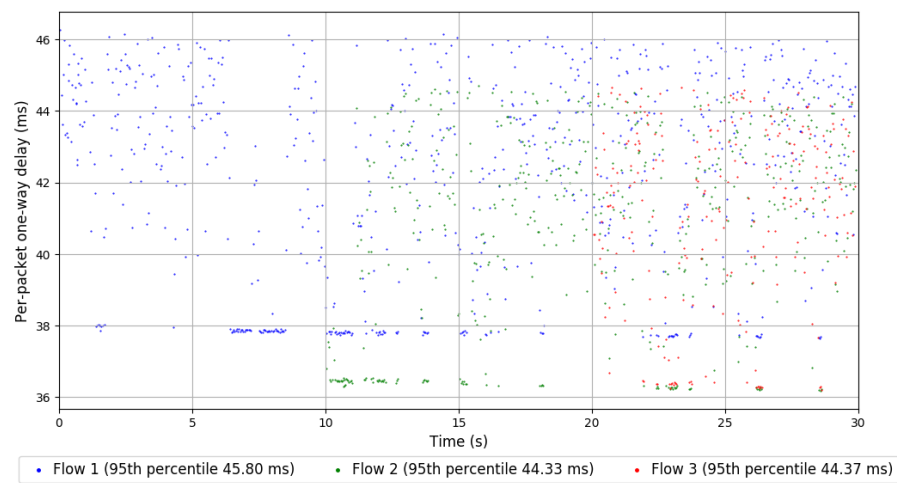
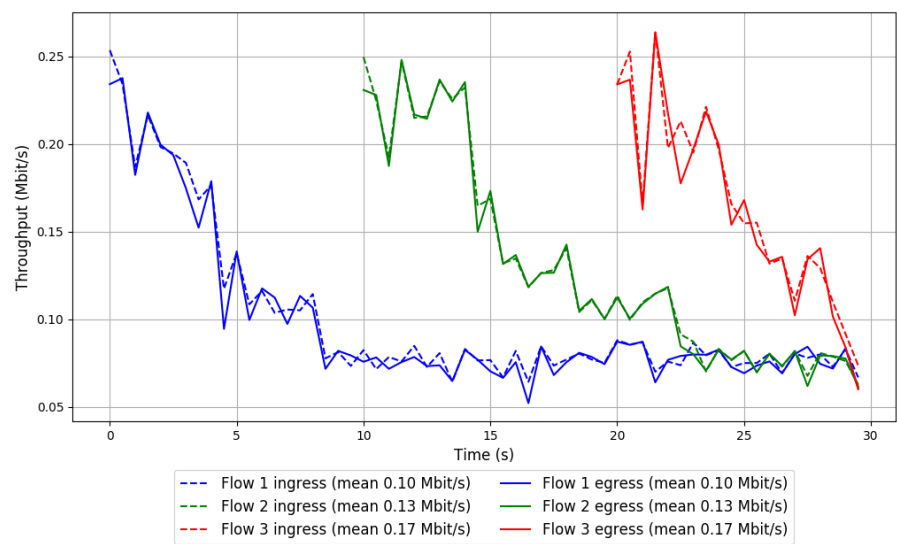


Run 6: Statistics of SCReAM

Start at: 2018-04-17 15:12:41  
End at: 2018-04-17 15:13:11  
Local clock offset: -1.221 ms  
Remote clock offset: -0.122 ms

# Below is generated by plot.py at 2018-04-17 21:52:40  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.24 Mbit/s  
95th percentile per-packet one-way delay: 45.495 ms  
Loss rate: 1.82%  
-- Flow 1:  
Average throughput: 0.10 Mbit/s  
95th percentile per-packet one-way delay: 45.802 ms  
Loss rate: 2.48%  
-- Flow 2:  
Average throughput: 0.13 Mbit/s  
95th percentile per-packet one-way delay: 44.328 ms  
Loss rate: 0.85%  
-- Flow 3:  
Average throughput: 0.17 Mbit/s  
95th percentile per-packet one-way delay: 44.370 ms  
Loss rate: 2.13%

Run 6: Report of SCRaM — Data Link



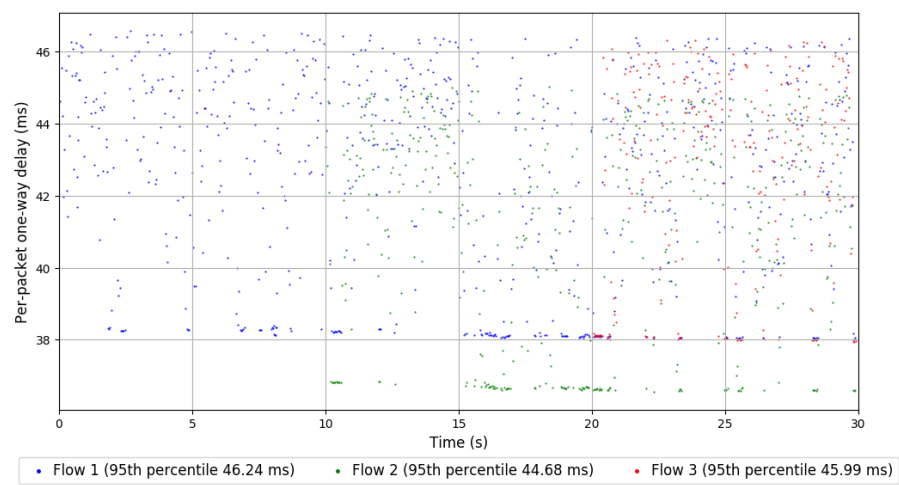
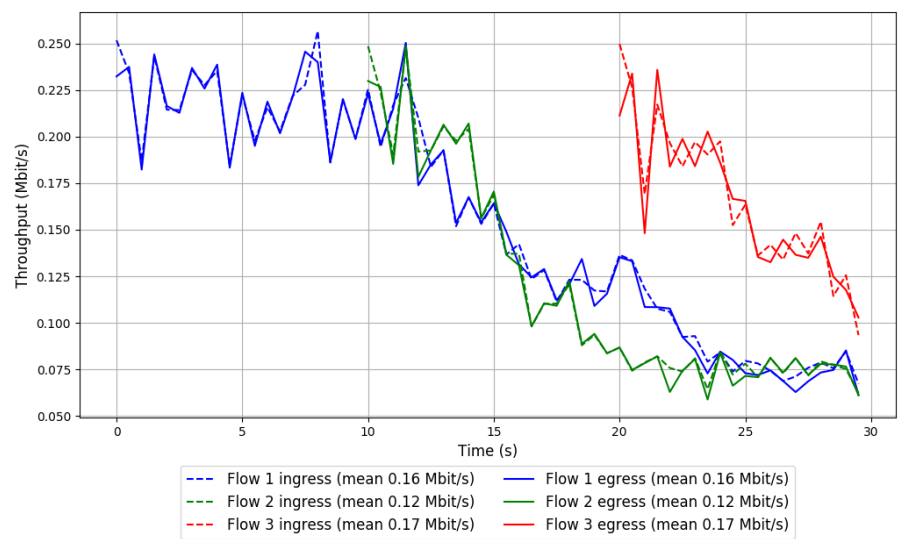


Run 7: Statistics of SCReAM

Start at: 2018-04-17 15:40:34  
End at: 2018-04-17 15:41:04  
Local clock offset: -2.842 ms  
Remote clock offset: -7.689 ms

# Below is generated by plot.py at 2018-04-17 21:52:40  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.29 Mbit/s  
95th percentile per-packet one-way delay: 46.053 ms  
Loss rate: 1.08%  
-- Flow 1:  
Average throughput: 0.16 Mbit/s  
95th percentile per-packet one-way delay: 46.239 ms  
Loss rate: 0.91%  
-- Flow 2:  
Average throughput: 0.12 Mbit/s  
95th percentile per-packet one-way delay: 44.676 ms  
Loss rate: 1.38%  
-- Flow 3:  
Average throughput: 0.17 Mbit/s  
95th percentile per-packet one-way delay: 45.990 ms  
Loss rate: 1.11%

Run 7: Report of SReAM — Data Link

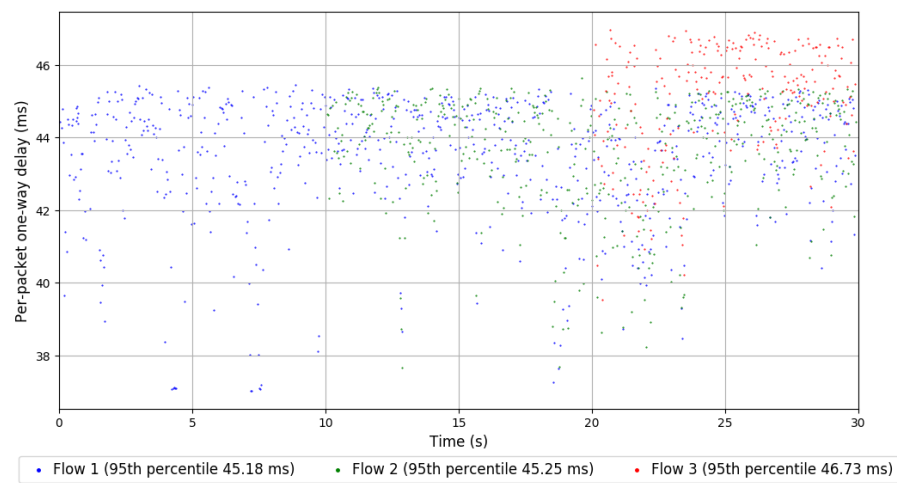
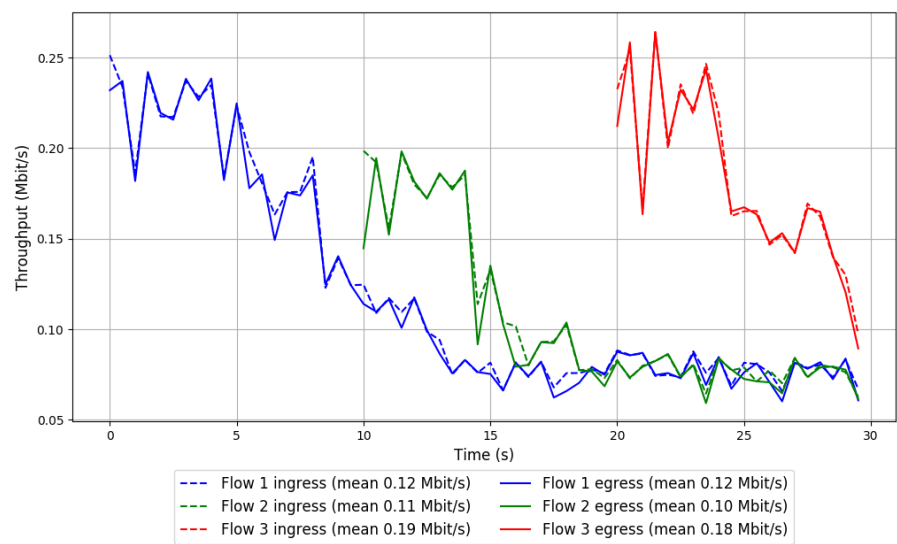


Run 8: Statistics of SCReAM

Start at: 2018-04-17 16:09:19  
End at: 2018-04-17 16:09:49  
Local clock offset: -0.419 ms  
Remote clock offset: -6.484 ms

# Below is generated by plot.py at 2018-04-17 21:52:40  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.25 Mbit/s  
95th percentile per-packet one-way delay: 46.159 ms  
Loss rate: 2.01%  
-- Flow 1:  
Average throughput: 0.12 Mbit/s  
95th percentile per-packet one-way delay: 45.180 ms  
Loss rate: 1.88%  
-- Flow 2:  
Average throughput: 0.10 Mbit/s  
95th percentile per-packet one-way delay: 45.250 ms  
Loss rate: 2.92%  
-- Flow 3:  
Average throughput: 0.18 Mbit/s  
95th percentile per-packet one-way delay: 46.726 ms  
Loss rate: 1.23%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SReAM

Start at: 2018-04-17 16:36:01

End at: 2018-04-17 16:36:31

Local clock offset: -0.017 ms

Remote clock offset: -2.24 ms

# Below is generated by plot.py at 2018-04-17 21:52:40

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.23 Mbit/s

95th percentile per-packet one-way delay: 44.487 ms

Loss rate: 0.70%

-- Flow 1:

Average throughput: 0.10 Mbit/s

95th percentile per-packet one-way delay: 44.076 ms

Loss rate: 0.58%

-- Flow 2:

Average throughput: 0.12 Mbit/s

95th percentile per-packet one-way delay: 45.441 ms

Loss rate: 0.66%

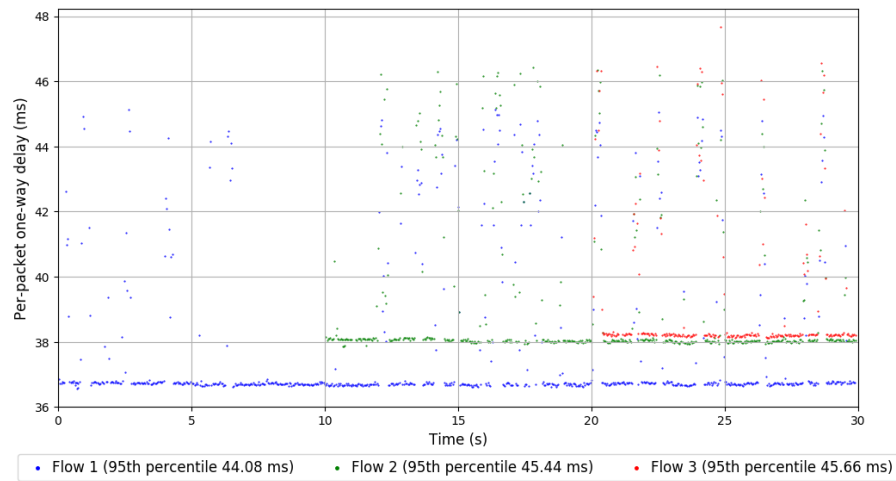
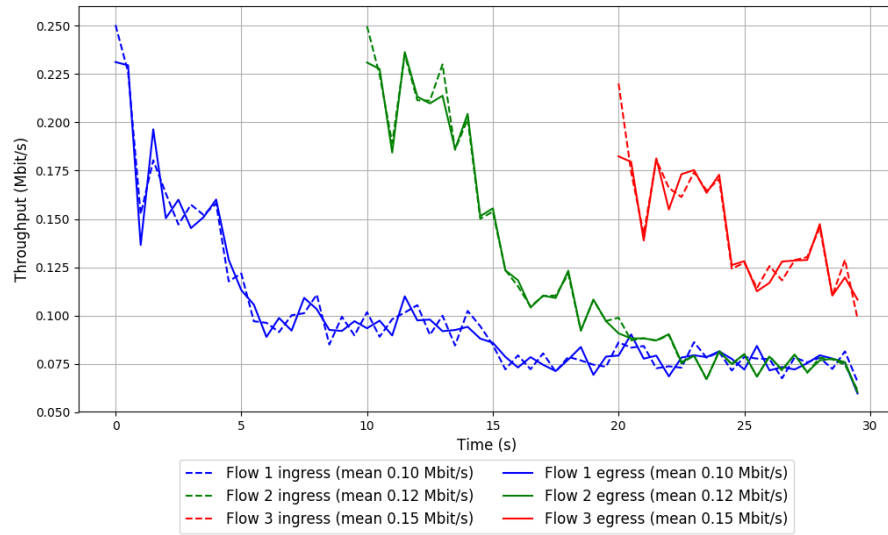
-- Flow 3:

Average throughput: 0.15 Mbit/s

95th percentile per-packet one-way delay: 45.663 ms

Loss rate: 1.00%

## Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-04-17 17:01:27

End at: 2018-04-17 17:01:57

Local clock offset: 0.593 ms

Remote clock offset: -2.3 ms

# Below is generated by plot.py at 2018-04-17 21:52:40

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.32 Mbit/s

95th percentile per-packet one-way delay: 38.398 ms

Loss rate: 0.38%

-- Flow 1:

Average throughput: 0.11 Mbit/s

95th percentile per-packet one-way delay: 37.029 ms

Loss rate: 0.61%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 37.090 ms

Loss rate: 0.20%

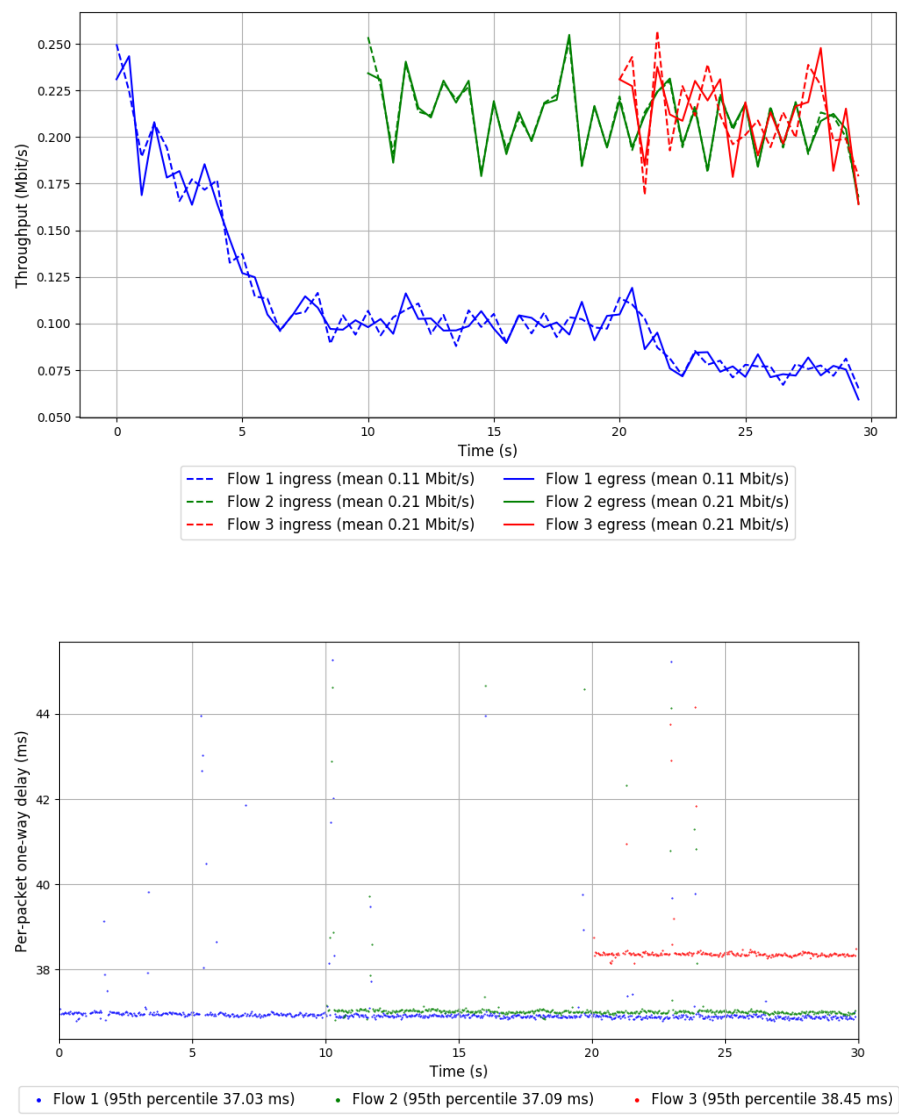
-- Flow 3:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 38.454 ms

Loss rate: 0.35%

Run 10: Report of SCReAM — Data Link



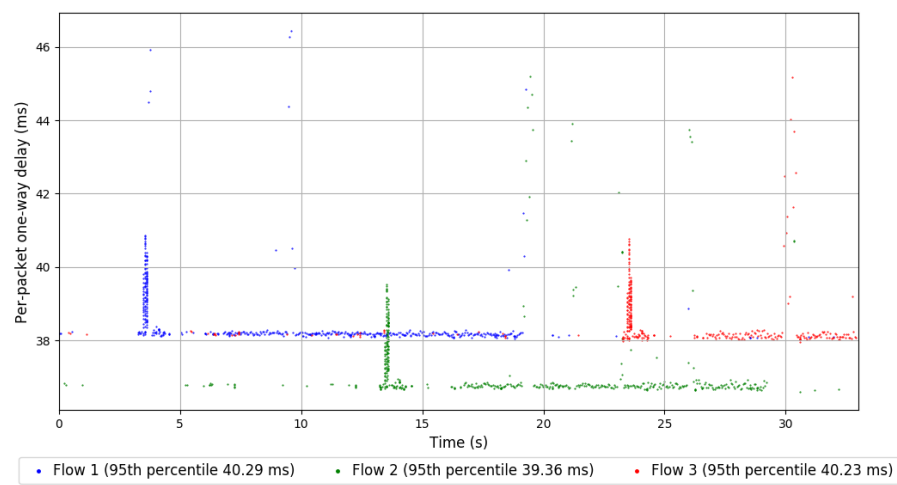
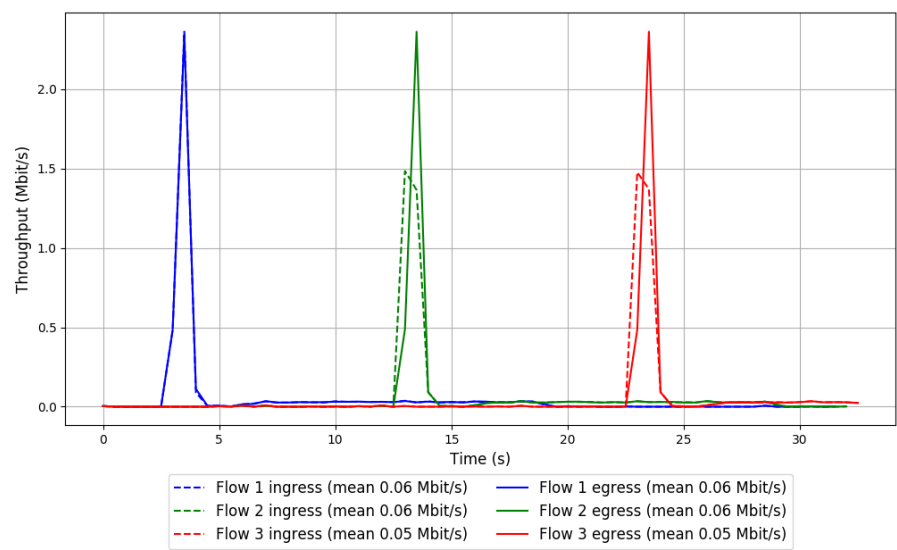


Run 1: Statistics of WebRTC media

Start at: 2018-04-17 13:26:52  
End at: 2018-04-17 13:27:22  
Local clock offset: 0.602 ms  
Remote clock offset: -1.671 ms

# Below is generated by plot.py at 2018-04-17 21:52:40  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.16 Mbit/s  
95th percentile per-packet one-way delay: 40.176 ms  
Loss rate: 0.02%  
-- Flow 1:  
Average throughput: 0.06 Mbit/s  
95th percentile per-packet one-way delay: 40.286 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.06 Mbit/s  
95th percentile per-packet one-way delay: 39.359 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 40.235 ms  
Loss rate: 0.08%

Run 1: Report of WebRTC media — Data Link

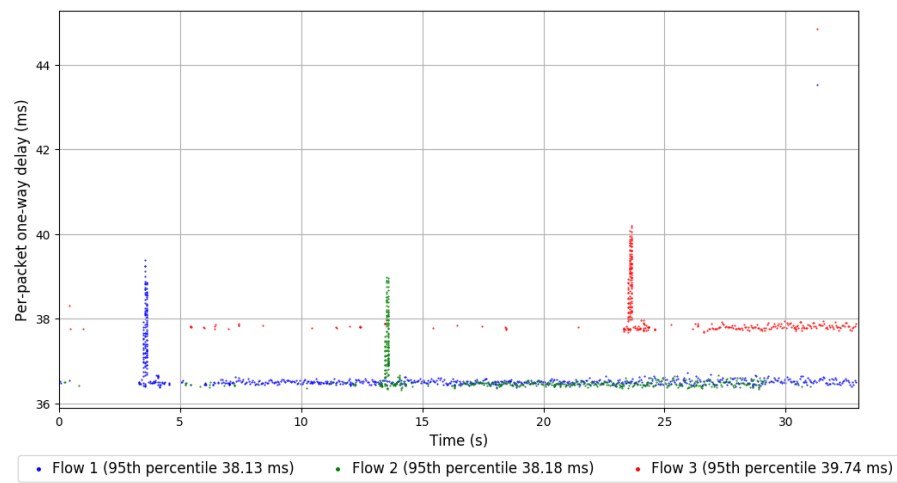
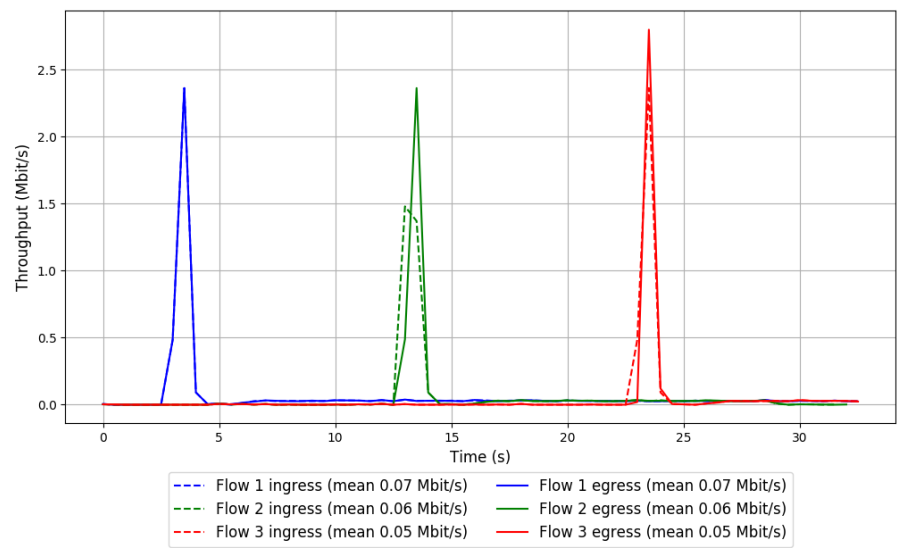


Run 2: Statistics of WebRTC media

Start at: 2018-04-17 13:50:41  
End at: 2018-04-17 13:51:11  
Local clock offset: 3.265 ms  
Remote clock offset: -2.005 ms

# Below is generated by plot.py at 2018-04-17 21:52:40  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.18 Mbit/s  
95th percentile per-packet one-way delay: 38.860 ms  
Loss rate: 0.09%  
-- Flow 1:  
Average throughput: 0.07 Mbit/s  
95th percentile per-packet one-way delay: 38.132 ms  
Loss rate: 0.12%  
-- Flow 2:  
Average throughput: 0.06 Mbit/s  
95th percentile per-packet one-way delay: 38.180 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 39.740 ms  
Loss rate: 0.16%

Run 2: Report of WebRTC media — Data Link

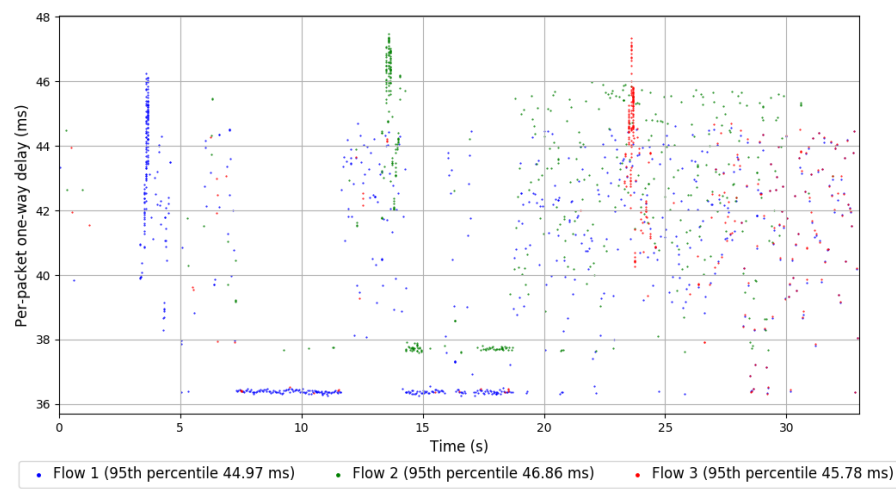
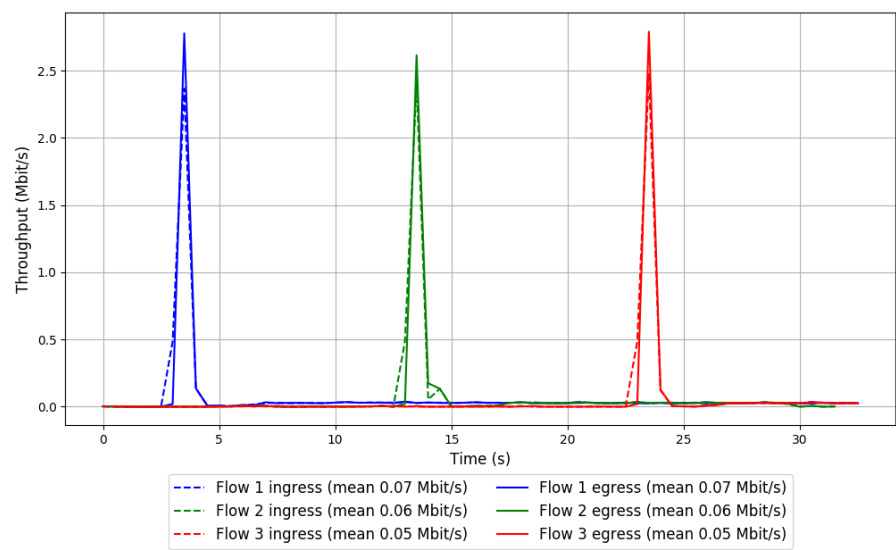


Run 3: Statistics of WebRTC media

Start at: 2018-04-17 14:15:22  
End at: 2018-04-17 14:15:52  
Local clock offset: 9.55 ms  
Remote clock offset: -1.084 ms

# Below is generated by plot.py at 2018-04-17 21:52:40  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.18 Mbit/s  
95th percentile per-packet one-way delay: 46.087 ms  
Loss rate: 3.29%  
-- Flow 1:  
Average throughput: 0.07 Mbit/s  
95th percentile per-packet one-way delay: 44.970 ms  
Loss rate: 1.74%  
-- Flow 2:  
Average throughput: 0.06 Mbit/s  
95th percentile per-packet one-way delay: 46.857 ms  
Loss rate: 3.96%  
-- Flow 3:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 45.781 ms  
Loss rate: 4.54%

Run 3: Report of WebRTC media — Data Link

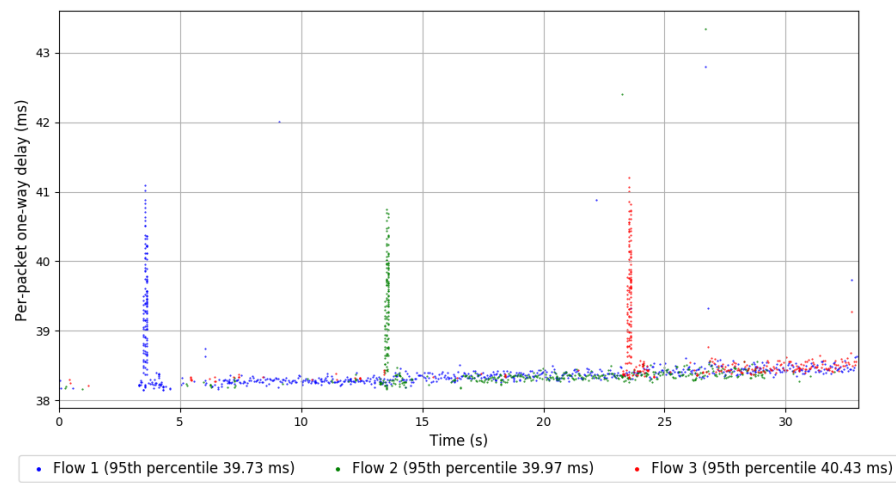
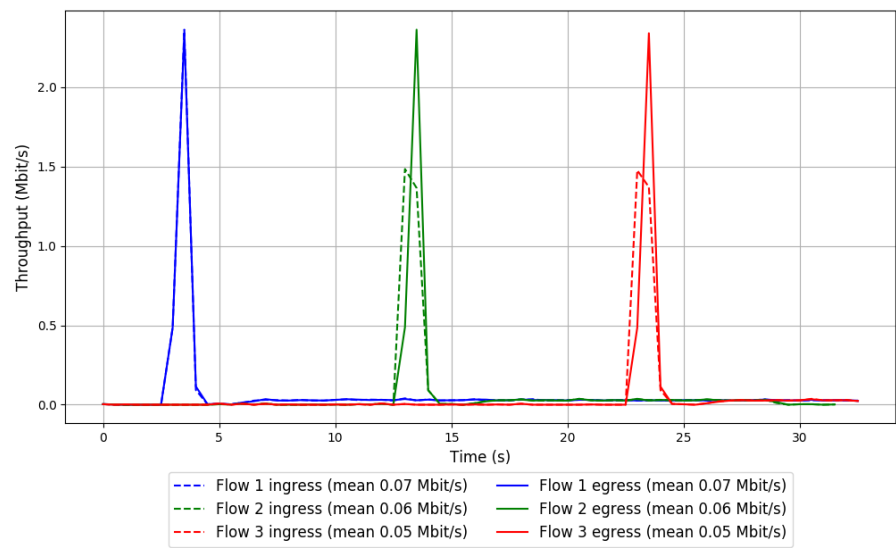


Run 4: Statistics of WebRTC media

Start at: 2018-04-17 14:44:38  
End at: 2018-04-17 14:45:08  
Local clock offset: 3.055 ms  
Remote clock offset: -0.251 ms

```
# Below is generated by plot.py at 2018-04-17 21:52:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 40.051 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 0.07 Mbit/s
95th percentile per-packet one-way delay: 39.731 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 39.972 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 40.434 ms
Loss rate: 0.08%
```

Run 4: Report of WebRTC media — Data Link





Run 5: Statistics of WebRTC media

Start at: 2018-04-17 15:11:22

End at: 2018-04-17 15:11:52

Local clock offset: -1.236 ms

Remote clock offset: 0.174 ms

# Below is generated by plot.py at 2018-04-17 21:52:40

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 46.405 ms

Loss rate: 1.43%

-- Flow 1:

Average throughput: 0.07 Mbit/s

95th percentile per-packet one-way delay: 46.588 ms

Loss rate: 2.16%

-- Flow 2:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 46.260 ms

Loss rate: 1.66%

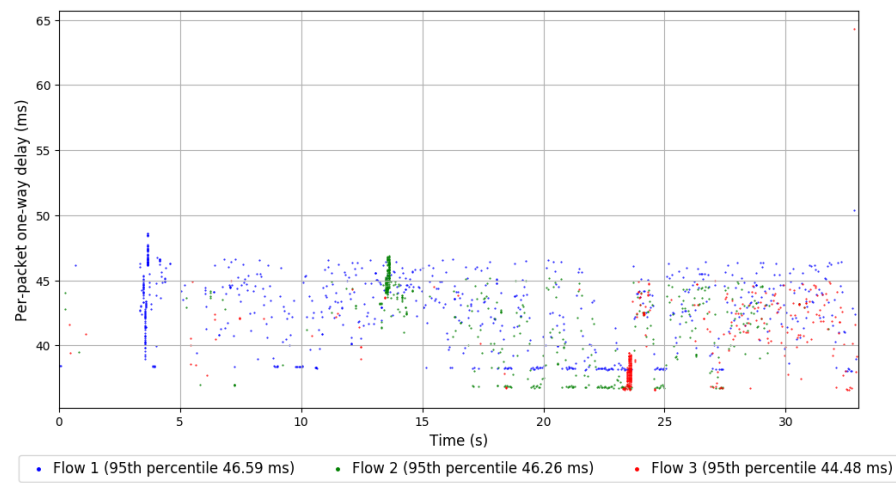
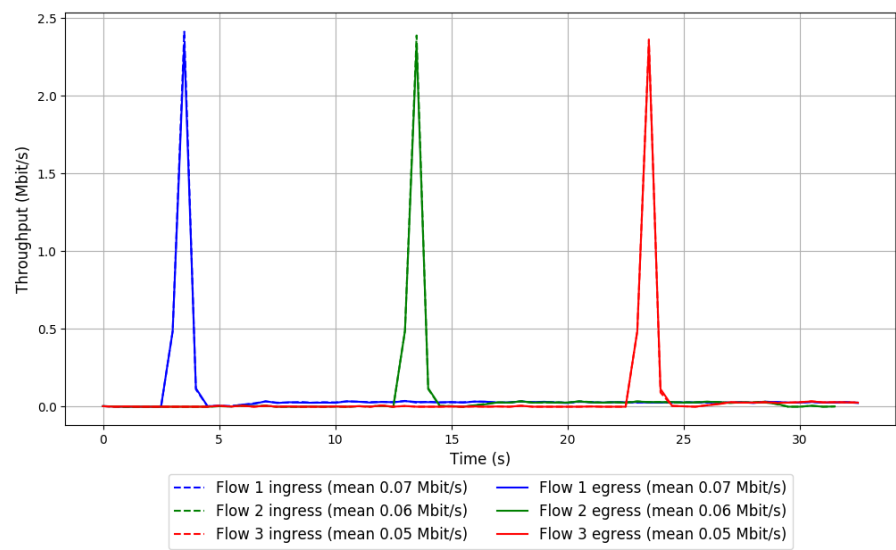
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 44.477 ms

Loss rate: 0.20%

Run 5: Report of WebRTC media — Data Link

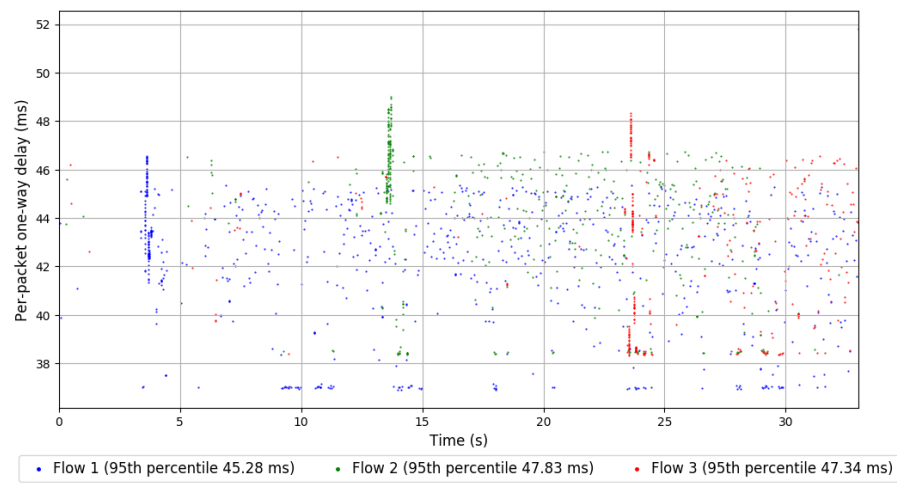
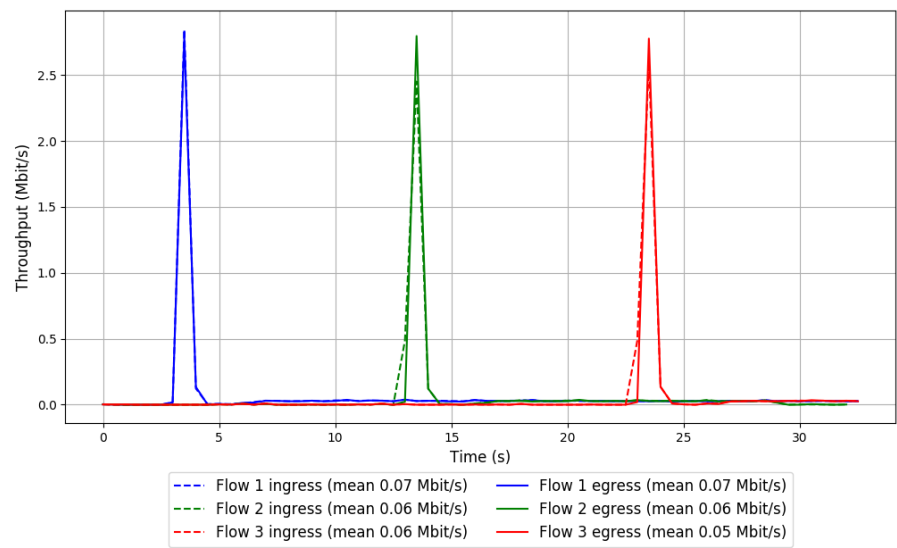


Run 6: Statistics of WebRTC media

Start at: 2018-04-17 15:39:15  
End at: 2018-04-17 15:39:45  
Local clock offset: -2.758 ms  
Remote clock offset: -7.564 ms

# Below is generated by plot.py at 2018-04-17 21:52:40  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.17 Mbit/s  
95th percentile per-packet one-way delay: 46.797 ms  
Loss rate: 4.23%  
-- Flow 1:  
Average throughput: 0.07 Mbit/s  
95th percentile per-packet one-way delay: 45.281 ms  
Loss rate: 1.70%  
-- Flow 2:  
Average throughput: 0.06 Mbit/s  
95th percentile per-packet one-way delay: 47.832 ms  
Loss rate: 3.56%  
-- Flow 3:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 47.344 ms  
Loss rate: 8.09%

Run 6: Report of WebRTC media — Data Link

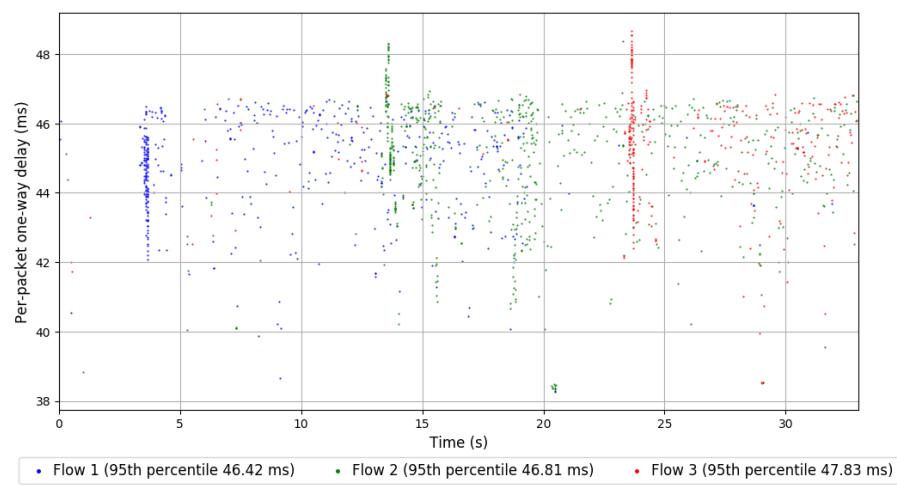
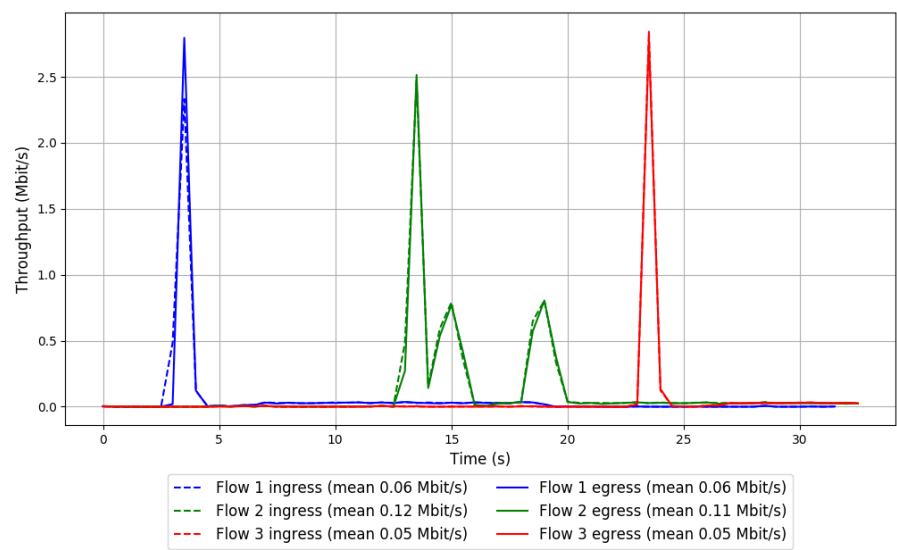


Run 7: Statistics of WebRTC media

Start at: 2018-04-17 16:07:55  
End at: 2018-04-17 16:08:25  
Local clock offset: -0.437 ms  
Remote clock offset: -6.498 ms

# Below is generated by plot.py at 2018-04-17 21:52:40  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 46.770 ms  
Loss rate: 2.64%  
-- Flow 1:  
Average throughput: 0.06 Mbit/s  
95th percentile per-packet one-way delay: 46.422 ms  
Loss rate: 0.53%  
-- Flow 2:  
Average throughput: 0.11 Mbit/s  
95th percentile per-packet one-way delay: 46.815 ms  
Loss rate: 4.04%  
-- Flow 3:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 47.826 ms  
Loss rate: 1.84%

Run 7: Report of WebRTC media — Data Link

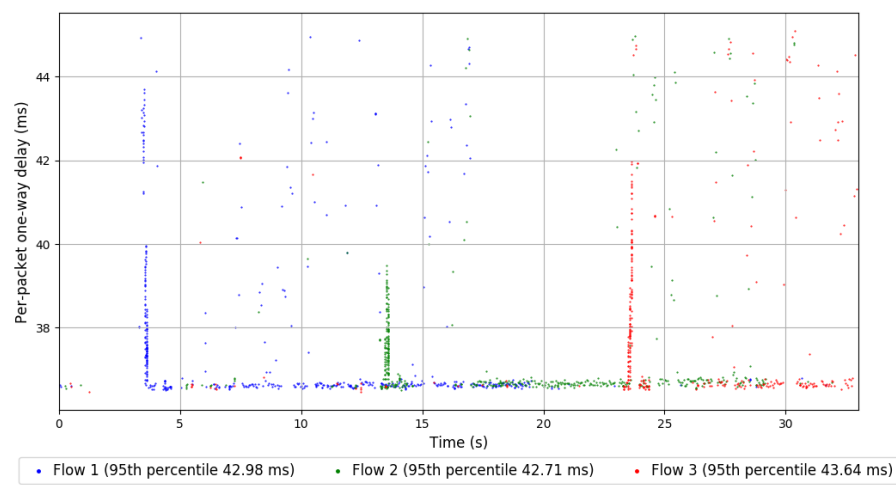
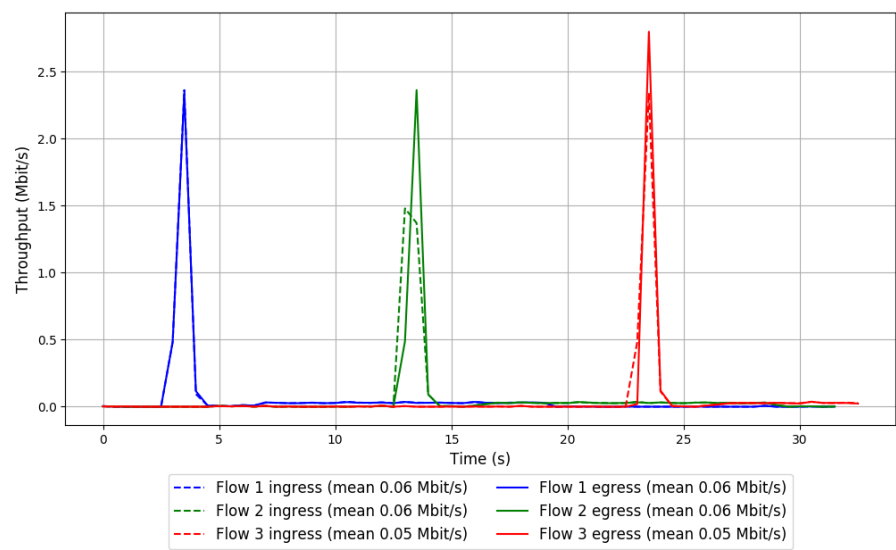


Run 8: Statistics of WebRTC media

Start at: 2018-04-17 16:34:42  
End at: 2018-04-17 16:35:12  
Local clock offset: -0.009 ms  
Remote clock offset: -2.377 ms

# Below is generated by plot.py at 2018-04-17 21:52:40  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.16 Mbit/s  
95th percentile per-packet one-way delay: 43.057 ms  
Loss rate: 0.24%  
-- Flow 1:  
Average throughput: 0.06 Mbit/s  
95th percentile per-packet one-way delay: 42.975 ms  
Loss rate: 0.41%  
-- Flow 2:  
Average throughput: 0.06 Mbit/s  
95th percentile per-packet one-way delay: 42.707 ms  
Loss rate: 0.07%  
-- Flow 3:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 43.644 ms  
Loss rate: 0.23%

Run 8: Report of WebRTC media — Data Link



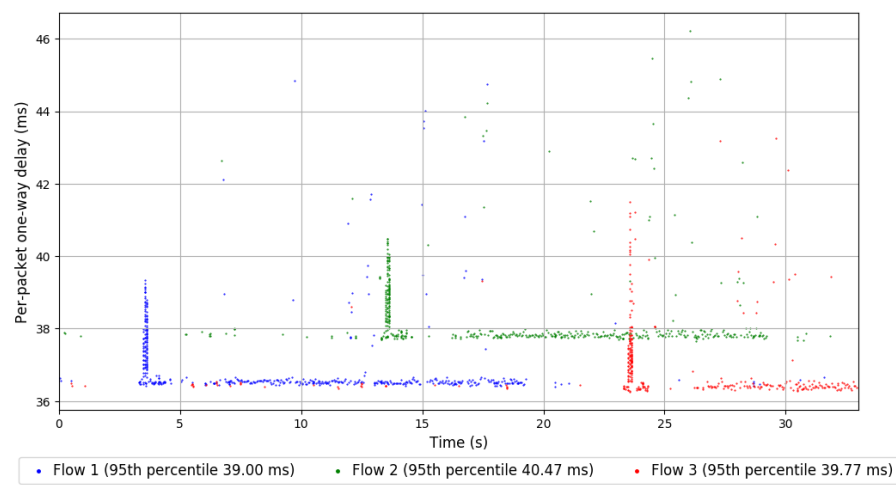
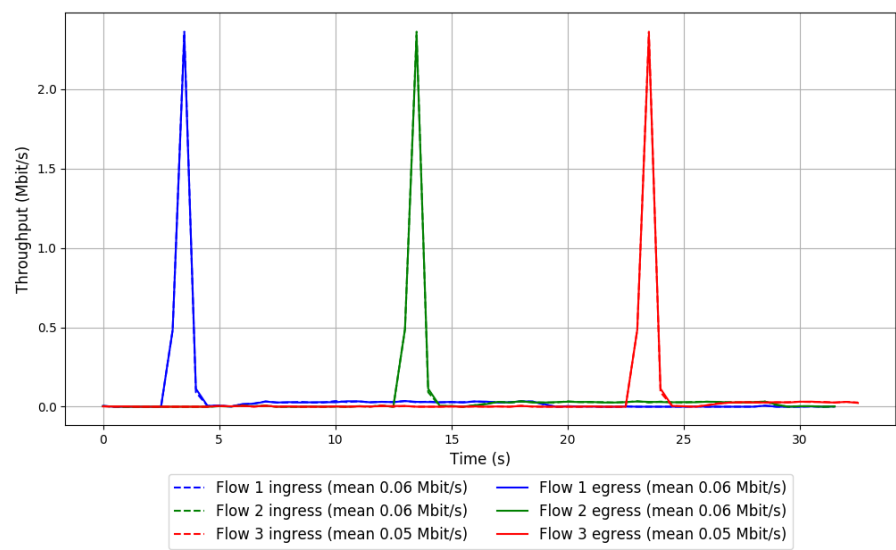


Run 9: Statistics of WebRTC media

Start at: 2018-04-17 17:00:08  
End at: 2018-04-17 17:00:38  
Local clock offset: 0.626 ms  
Remote clock offset: -1.695 ms

# Below is generated by plot.py at 2018-04-17 21:52:40  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.16 Mbit/s  
95th percentile per-packet one-way delay: 39.970 ms  
Loss rate: 0.05%  
-- Flow 1:  
Average throughput: 0.06 Mbit/s  
95th percentile per-packet one-way delay: 38.996 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.06 Mbit/s  
95th percentile per-packet one-way delay: 40.473 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 39.765 ms  
Loss rate: 0.16%

Run 9: Report of WebRTC media — Data Link

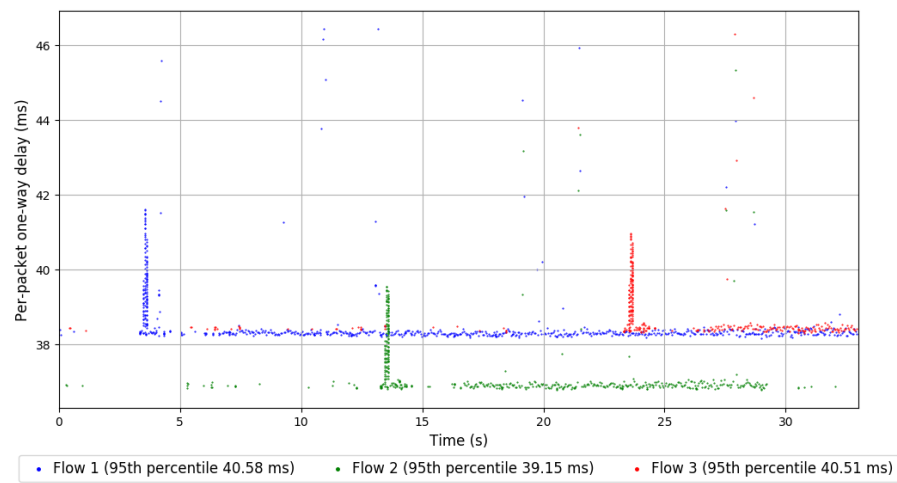
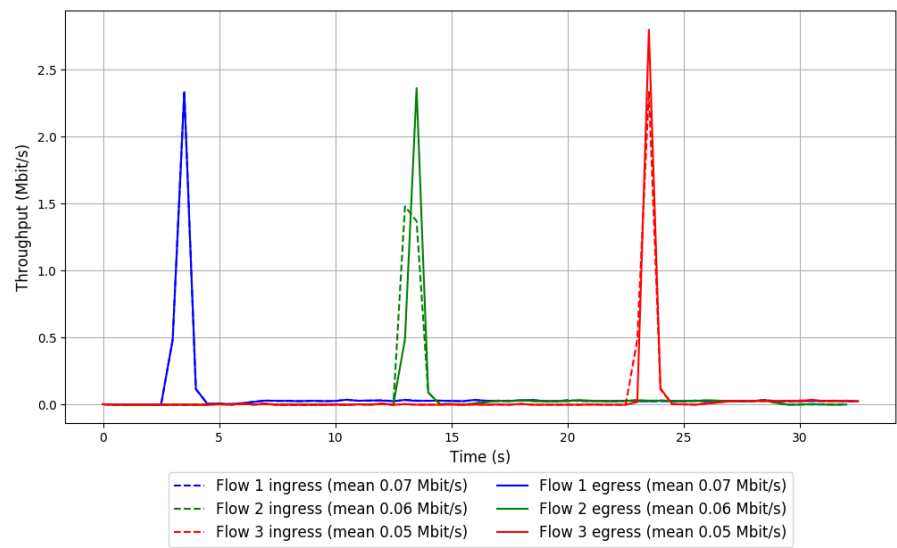


Run 10: Statistics of WebRTC media

Start at: 2018-04-17 17:24:15  
End at: 2018-04-17 17:24:45  
Local clock offset: 1.137 ms  
Remote clock offset: -2.554 ms

# Below is generated by plot.py at 2018-04-17 21:52:40  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.18 Mbit/s  
95th percentile per-packet one-way delay: 40.219 ms  
Loss rate: 0.15%  
-- Flow 1:  
Average throughput: 0.07 Mbit/s  
95th percentile per-packet one-way delay: 40.577 ms  
Loss rate: 0.27%  
-- Flow 2:  
Average throughput: 0.06 Mbit/s  
95th percentile per-packet one-way delay: 39.149 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 40.506 ms  
Loss rate: 0.16%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2018-04-17 13:14:17

End at: 2018-04-17 13:14:47

Local clock offset: -0.142 ms

Remote clock offset: -1.5 ms

# Below is generated by plot.py at 2018-04-17 21:52:40

# Datalink statistics

-- Total of 3 flows:

Average throughput: 23.42 Mbit/s

95th percentile per-packet one-way delay: 43.986 ms

Loss rate: 0.51%

-- Flow 1:

Average throughput: 11.82 Mbit/s

95th percentile per-packet one-way delay: 43.601 ms

Loss rate: 0.29%

-- Flow 2:

Average throughput: 11.77 Mbit/s

95th percentile per-packet one-way delay: 43.673 ms

Loss rate: 0.69%

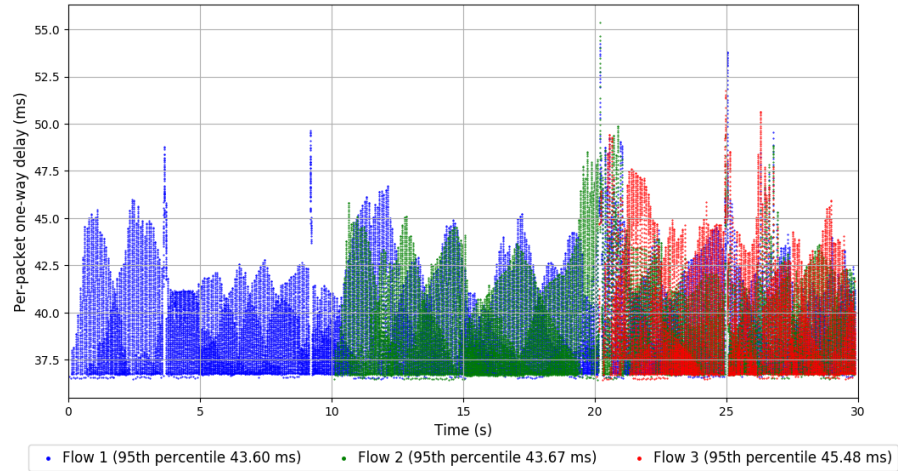
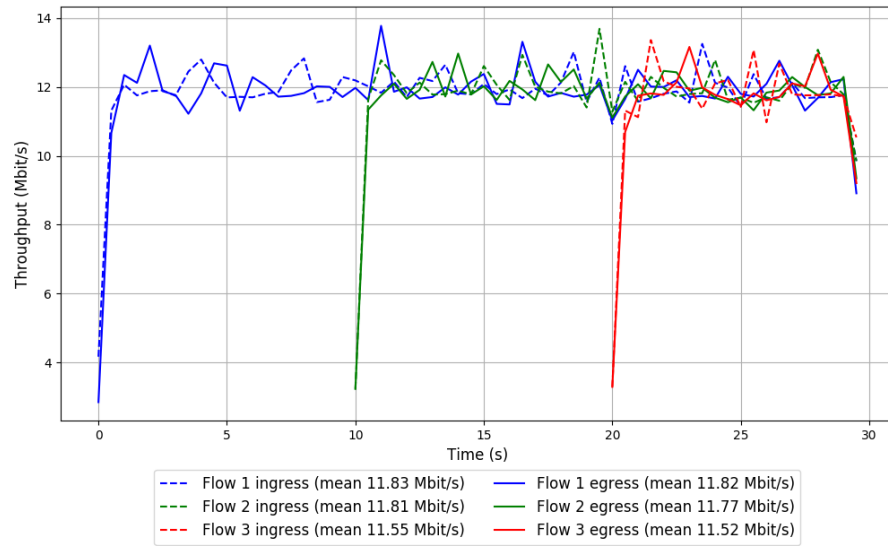
-- Flow 3:

Average throughput: 11.52 Mbit/s

95th percentile per-packet one-way delay: 45.480 ms

Loss rate: 0.81%

## Run 1: Report of Sprout — Data Link

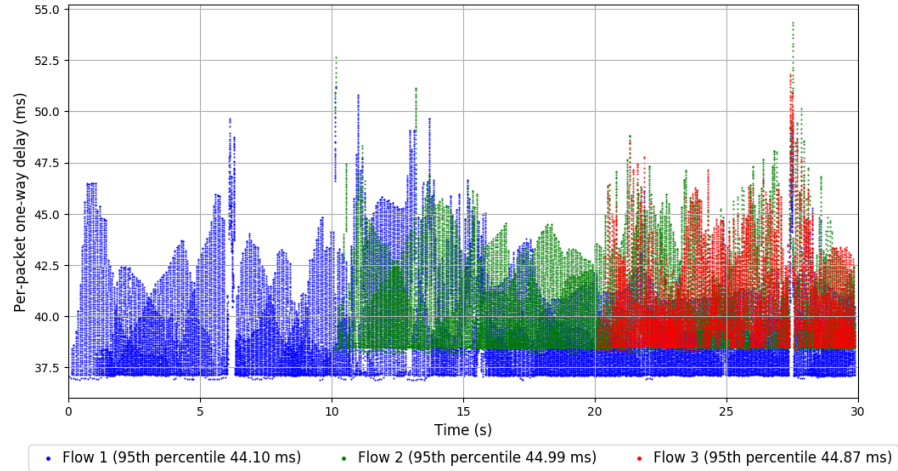
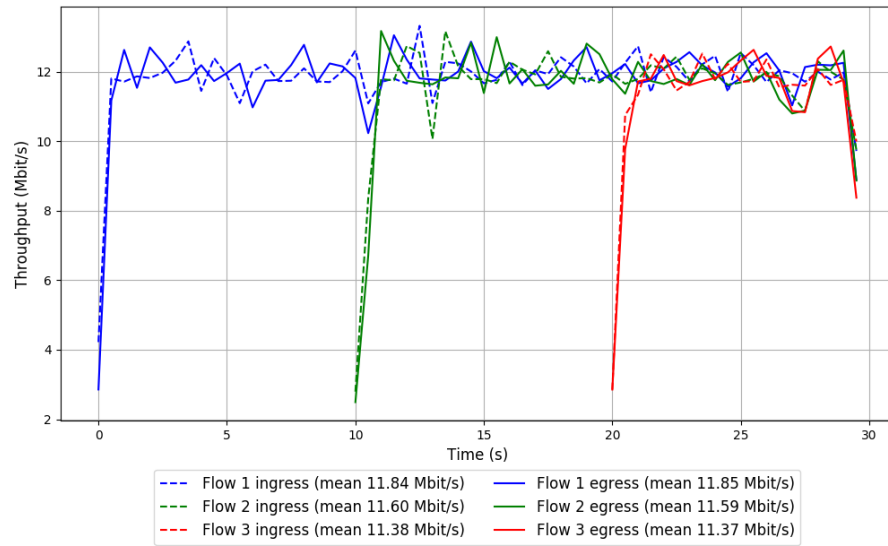


Run 2: Statistics of Sprout

Start at: 2018-04-17 13:38:17  
End at: 2018-04-17 13:38:47  
Local clock offset: 2.607 ms  
Remote clock offset: -2.319 ms

# Below is generated by plot.py at 2018-04-17 21:52:40  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 23.28 Mbit/s  
95th percentile per-packet one-way delay: 44.618 ms  
Loss rate: 0.38%  
-- Flow 1:  
Average throughput: 11.85 Mbit/s  
95th percentile per-packet one-way delay: 44.097 ms  
Loss rate: 0.19%  
-- Flow 2:  
Average throughput: 11.59 Mbit/s  
95th percentile per-packet one-way delay: 44.990 ms  
Loss rate: 0.37%  
-- Flow 3:  
Average throughput: 11.37 Mbit/s  
95th percentile per-packet one-way delay: 44.872 ms  
Loss rate: 0.99%

## Run 2: Report of Sprout — Data Link



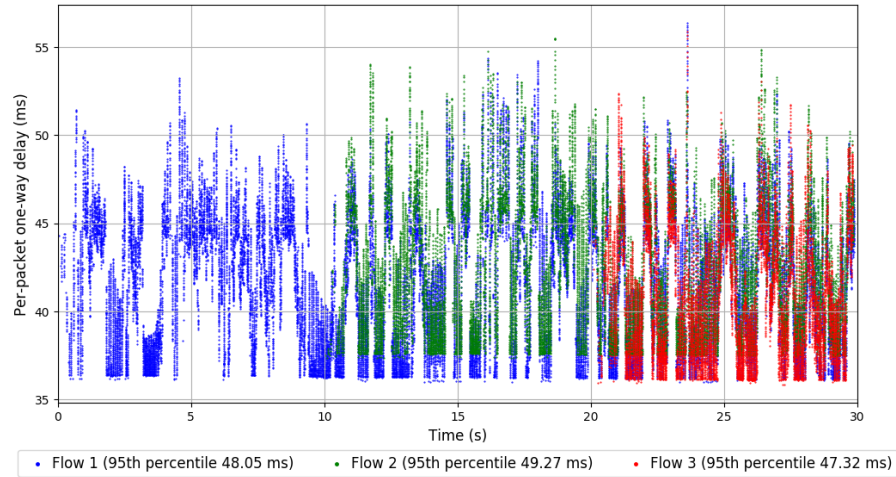
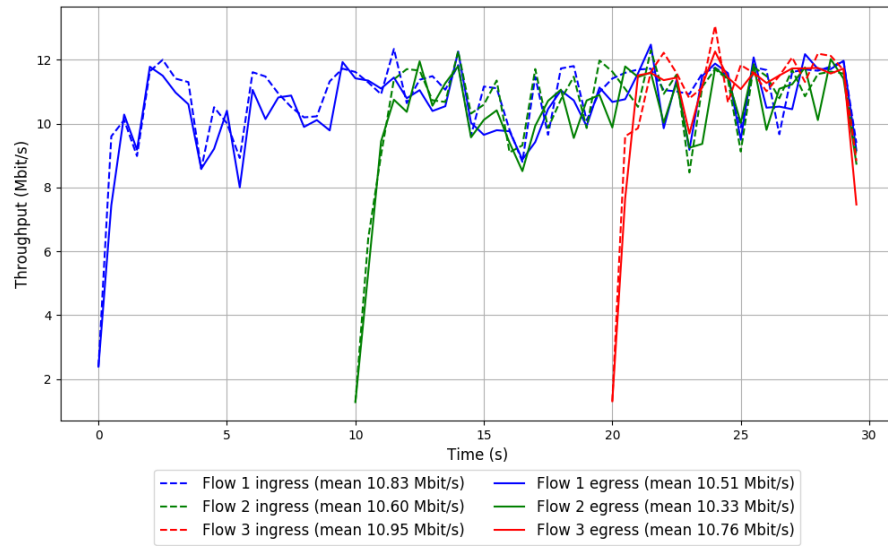


### Run 3: Statistics of Sprout

Start at: 2018-04-17 14:01:49  
End at: 2018-04-17 14:02:19  
Local clock offset: 5.586 ms  
Remote clock offset: -1.908 ms

```
# Below is generated by plot.py at 2018-04-17 21:52:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 20.91 Mbit/s
95th percentile per-packet one-way delay: 48.400 ms
Loss rate: 2.96%
-- Flow 1:
Average throughput: 10.51 Mbit/s
95th percentile per-packet one-way delay: 48.047 ms
Loss rate: 3.22%
-- Flow 2:
Average throughput: 10.33 Mbit/s
95th percentile per-packet one-way delay: 49.267 ms
Loss rate: 2.88%
-- Flow 3:
Average throughput: 10.76 Mbit/s
95th percentile per-packet one-way delay: 47.319 ms
Loss rate: 2.36%
```

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

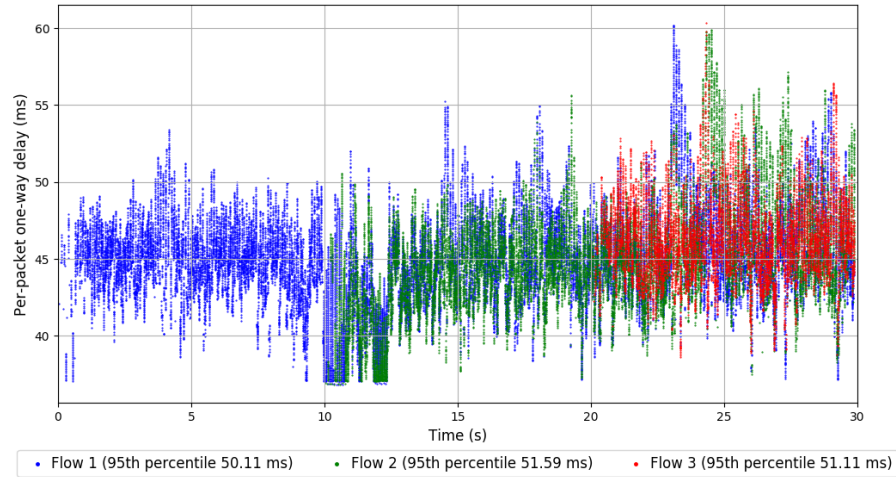
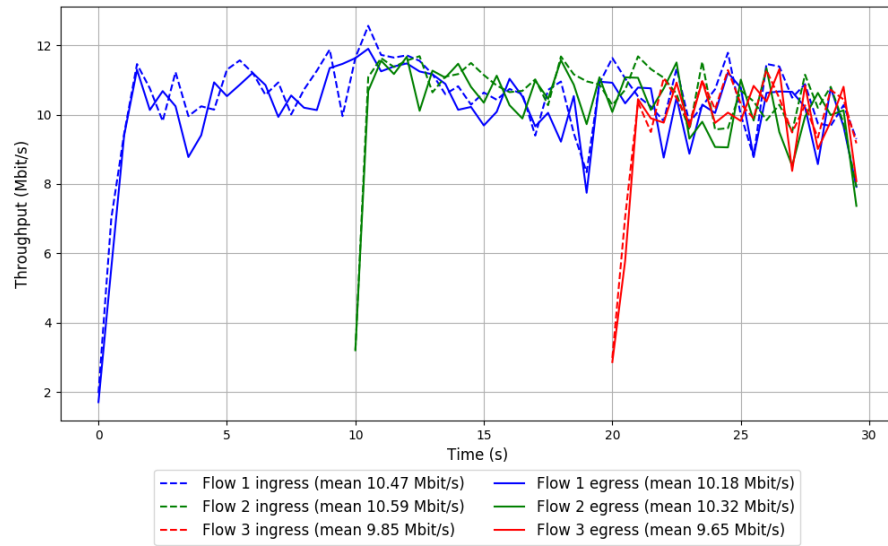


#### Run 4: Statistics of Sprout

Start at: 2018-04-17 14:28:56  
End at: 2018-04-17 14:29:26  
Local clock offset: 11.672 ms  
Remote clock offset: -1.158 ms

```
# Below is generated by plot.py at 2018-04-17 21:52:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 20.21 Mbit/s
95th percentile per-packet one-way delay: 50.756 ms
Loss rate: 2.91%
-- Flow 1:
Average throughput: 10.18 Mbit/s
95th percentile per-packet one-way delay: 50.109 ms
Loss rate: 3.08%
-- Flow 2:
Average throughput: 10.32 Mbit/s
95th percentile per-packet one-way delay: 51.593 ms
Loss rate: 2.68%
-- Flow 3:
Average throughput: 9.65 Mbit/s
95th percentile per-packet one-way delay: 51.107 ms
Loss rate: 2.87%
```

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

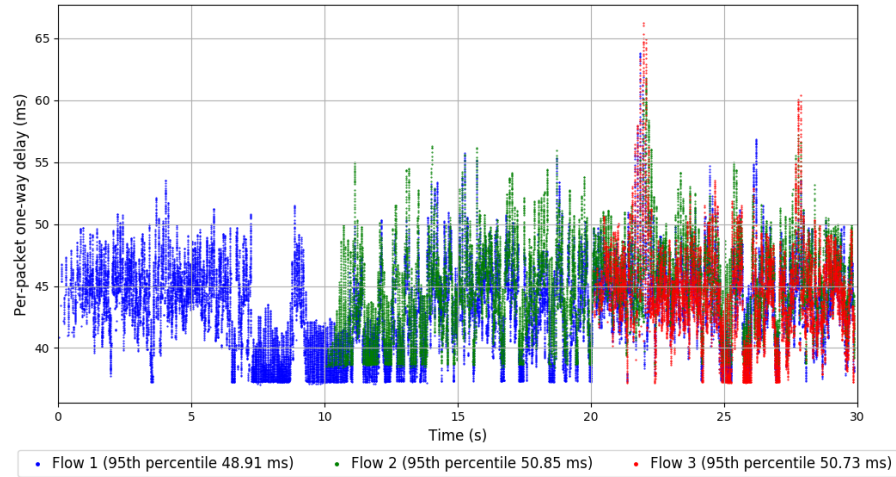
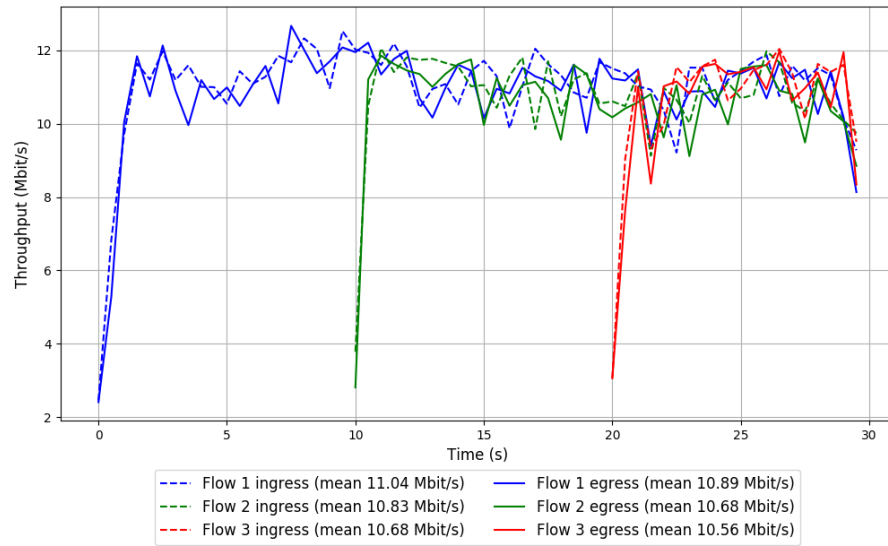


#### Run 5: Statistics of Sprout

Start at: 2018-04-17 14:56:51  
End at: 2018-04-17 14:57:21  
Local clock offset: -0.179 ms  
Remote clock offset: -0.214 ms

```
# Below is generated by plot.py at 2018-04-17 21:52:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 21.46 Mbit/s
95th percentile per-packet one-way delay: 49.946 ms
Loss rate: 1.69%
-- Flow 1:
Average throughput: 10.89 Mbit/s
95th percentile per-packet one-way delay: 48.910 ms
Loss rate: 1.60%
-- Flow 2:
Average throughput: 10.68 Mbit/s
95th percentile per-packet one-way delay: 50.855 ms
Loss rate: 1.72%
-- Flow 3:
Average throughput: 10.56 Mbit/s
95th percentile per-packet one-way delay: 50.732 ms
Loss rate: 1.90%
```

## Run 5: Report of Sprout — Data Link

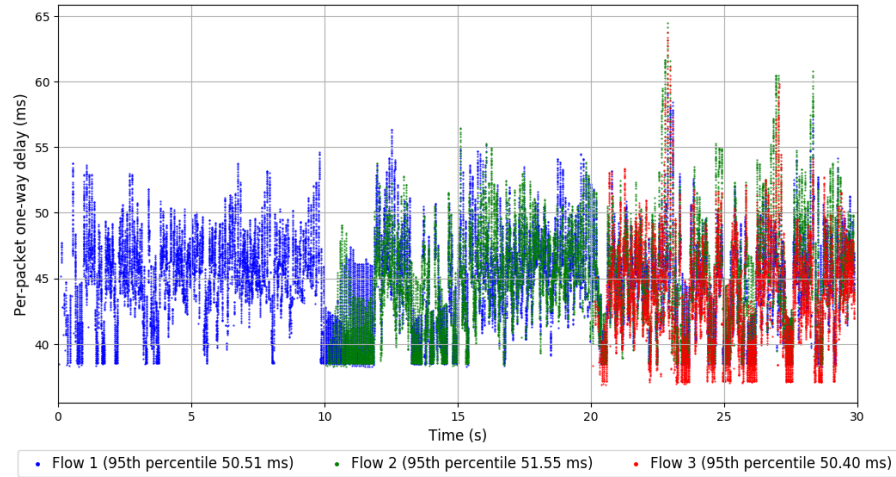
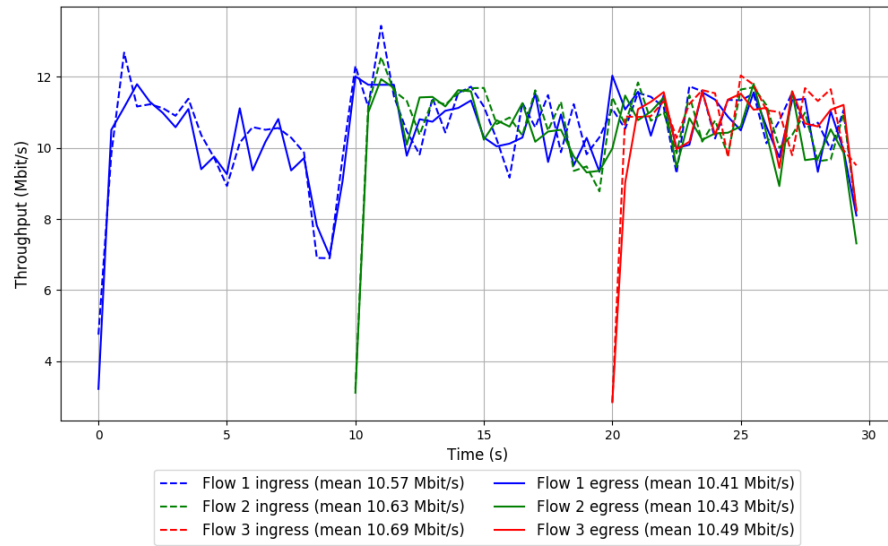


Run 6: Statistics of Sprout

Start at: 2018-04-17 15:24:56  
End at: 2018-04-17 15:25:26  
Local clock offset: -1.746 ms  
Remote clock offset: -5.323 ms

# Below is generated by plot.py at 2018-04-17 21:52:44  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 20.79 Mbit/s  
95th percentile per-packet one-way delay: 50.877 ms  
Loss rate: 1.95%  
-- Flow 1:  
Average throughput: 10.41 Mbit/s  
95th percentile per-packet one-way delay: 50.512 ms  
Loss rate: 1.69%  
-- Flow 2:  
Average throughput: 10.43 Mbit/s  
95th percentile per-packet one-way delay: 51.550 ms  
Loss rate: 2.09%  
-- Flow 3:  
Average throughput: 10.49 Mbit/s  
95th percentile per-packet one-way delay: 50.400 ms  
Loss rate: 2.45%

## Run 6: Report of Sprout — Data Link



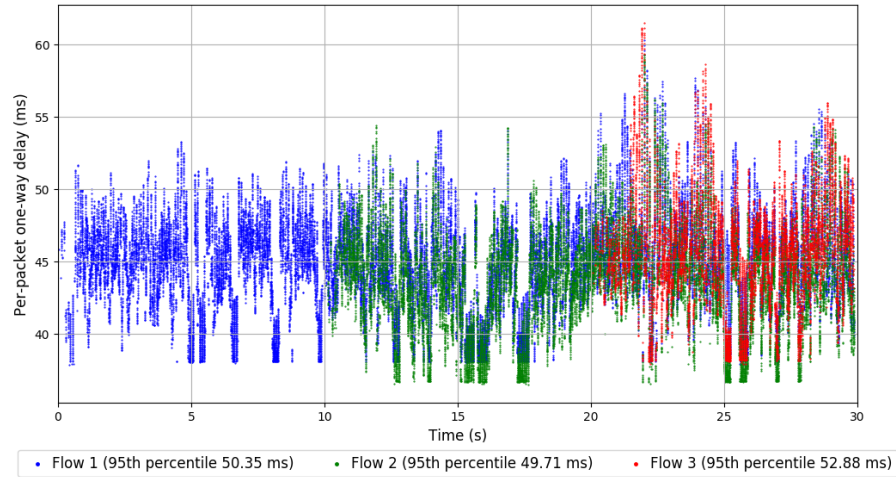
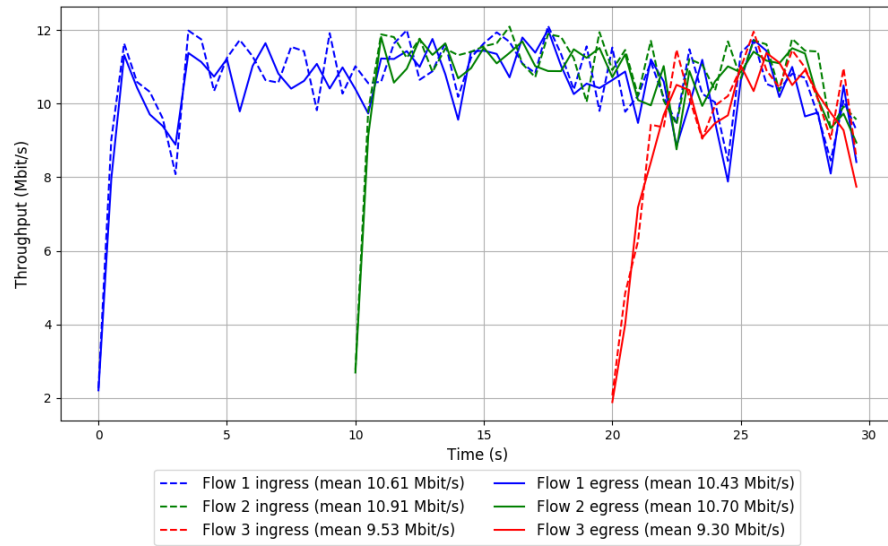


Run 7: Statistics of Sprout

Start at: 2018-04-17 15:52:27  
End at: 2018-04-17 15:52:57  
Local clock offset: -0.616 ms  
Remote clock offset: -6.477 ms

# Below is generated by plot.py at 2018-04-17 21:52:45  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 20.59 Mbit/s  
95th percentile per-packet one-way delay: 50.561 ms  
Loss rate: 2.22%  
-- Flow 1:  
Average throughput: 10.43 Mbit/s  
95th percentile per-packet one-way delay: 50.354 ms  
Loss rate: 1.92%  
-- Flow 2:  
Average throughput: 10.70 Mbit/s  
95th percentile per-packet one-way delay: 49.712 ms  
Loss rate: 2.35%  
-- Flow 3:  
Average throughput: 9.30 Mbit/s  
95th percentile per-packet one-way delay: 52.875 ms  
Loss rate: 2.94%

## Run 7: Report of Sprout — Data Link

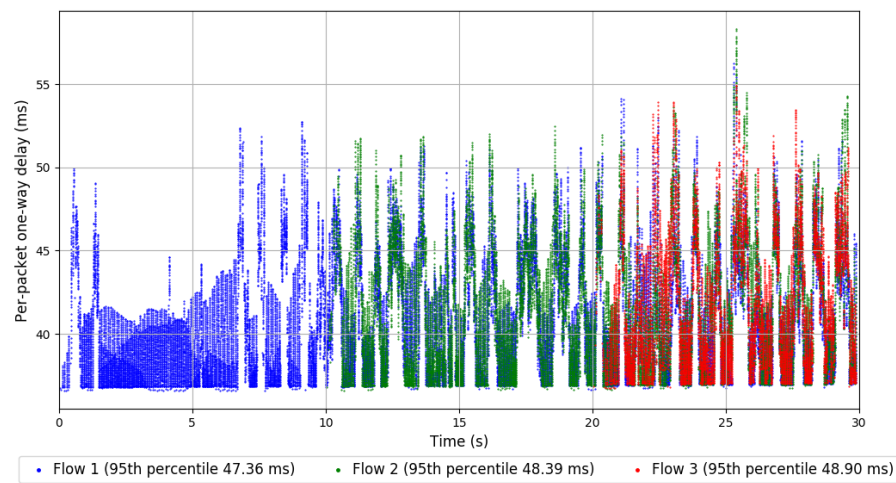
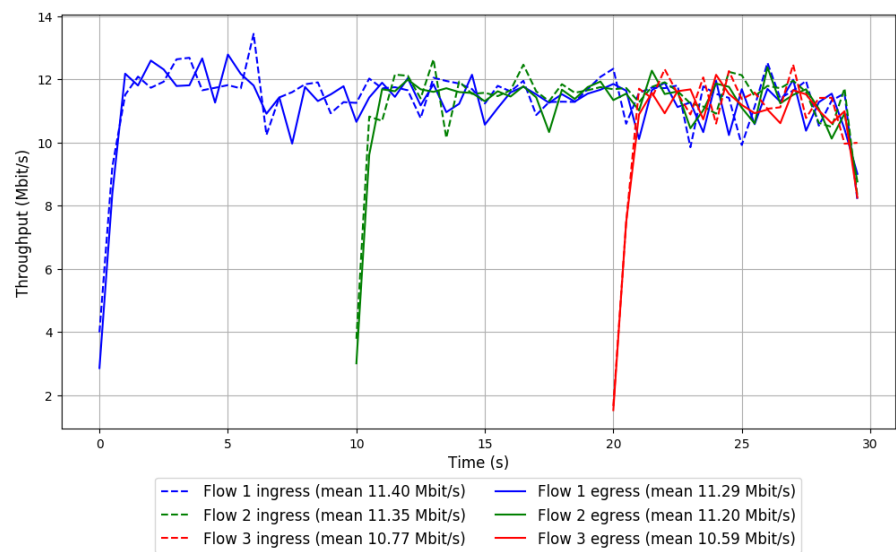


Run 8: Statistics of Sprout

Start at: 2018-04-17 16:21:20  
End at: 2018-04-17 16:21:50  
Local clock offset: -0.089 ms  
Remote clock offset: -5.684 ms

```
# Below is generated by plot.py at 2018-04-17 21:52:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 22.22 Mbit/s
95th percentile per-packet one-way delay: 48.014 ms
Loss rate: 1.49%
-- Flow 1:
Average throughput: 11.29 Mbit/s
95th percentile per-packet one-way delay: 47.362 ms
Loss rate: 1.18%
-- Flow 2:
Average throughput: 11.20 Mbit/s
95th percentile per-packet one-way delay: 48.389 ms
Loss rate: 1.52%
-- Flow 3:
Average throughput: 10.59 Mbit/s
95th percentile per-packet one-way delay: 48.904 ms
Loss rate: 2.42%
```

Run 8: Report of Sprout — Data Link

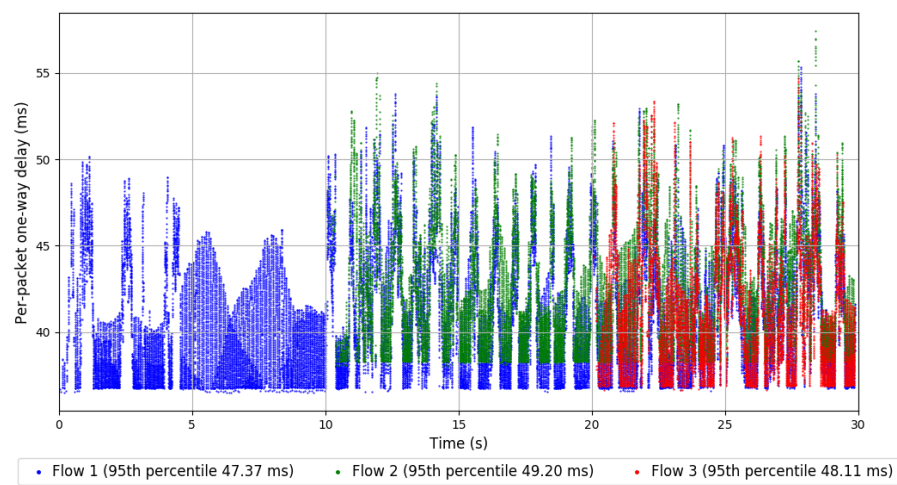
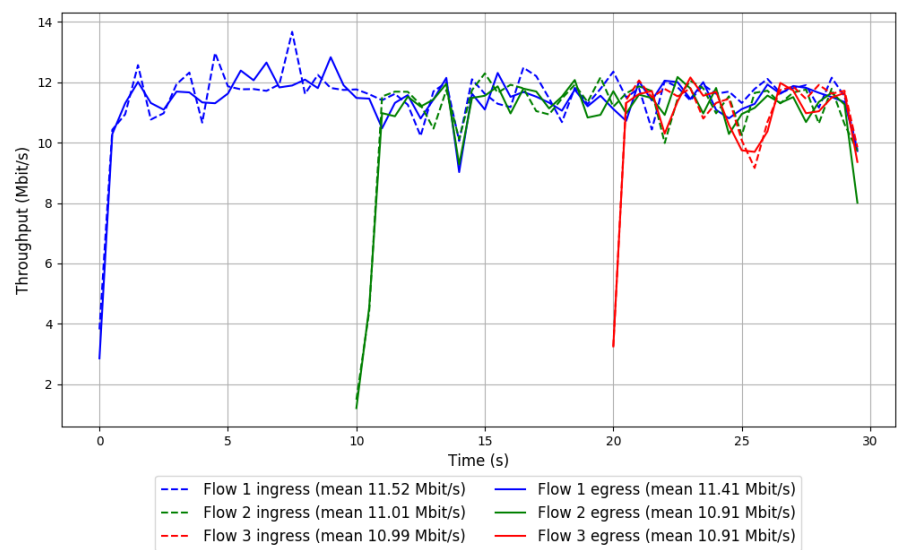


Run 9: Statistics of Sprout

Start at: 2018-04-17 16:46:41  
End at: 2018-04-17 16:47:11  
Local clock offset: -0.132 ms  
Remote clock offset: -1.281 ms

# Below is generated by plot.py at 2018-04-17 21:52:48  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 22.24 Mbit/s  
95th percentile per-packet one-way delay: 48.223 ms  
Loss rate: 1.30%  
-- Flow 1:  
Average throughput: 11.41 Mbit/s  
95th percentile per-packet one-way delay: 47.371 ms  
Loss rate: 1.16%  
-- Flow 2:  
Average throughput: 10.91 Mbit/s  
95th percentile per-packet one-way delay: 49.205 ms  
Loss rate: 1.37%  
-- Flow 3:  
Average throughput: 10.91 Mbit/s  
95th percentile per-packet one-way delay: 48.114 ms  
Loss rate: 1.58%

Run 9: Report of Sprout — Data Link

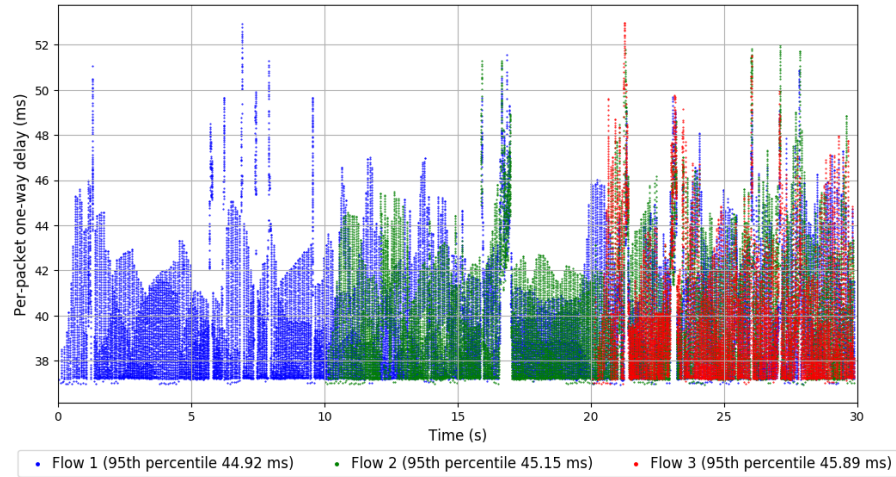
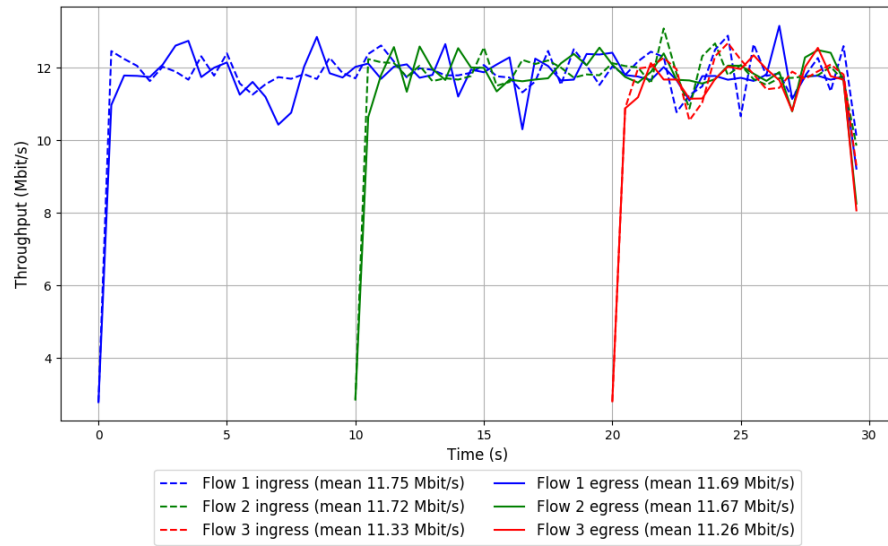


Run 10: Statistics of Sprout

Start at: 2018-04-17 17:11:25  
End at: 2018-04-17 17:11:55  
Local clock offset: 0.919 ms  
Remote clock offset: -2.669 ms

```
# Below is generated by plot.py at 2018-04-17 21:52:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 23.14 Mbit/s
95th percentile per-packet one-way delay: 45.158 ms
Loss rate: 0.82%
-- Flow 1:
Average throughput: 11.69 Mbit/s
95th percentile per-packet one-way delay: 44.916 ms
Loss rate: 0.79%
-- Flow 2:
Average throughput: 11.67 Mbit/s
95th percentile per-packet one-way delay: 45.150 ms
Loss rate: 0.62%
-- Flow 3:
Average throughput: 11.26 Mbit/s
95th percentile per-packet one-way delay: 45.886 ms
Loss rate: 1.30%
```

## Run 10: Report of Sprout — Data Link



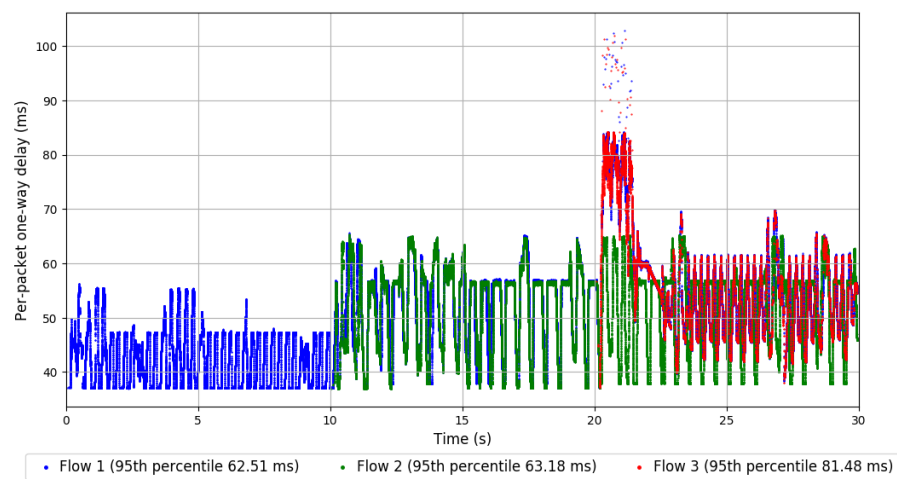
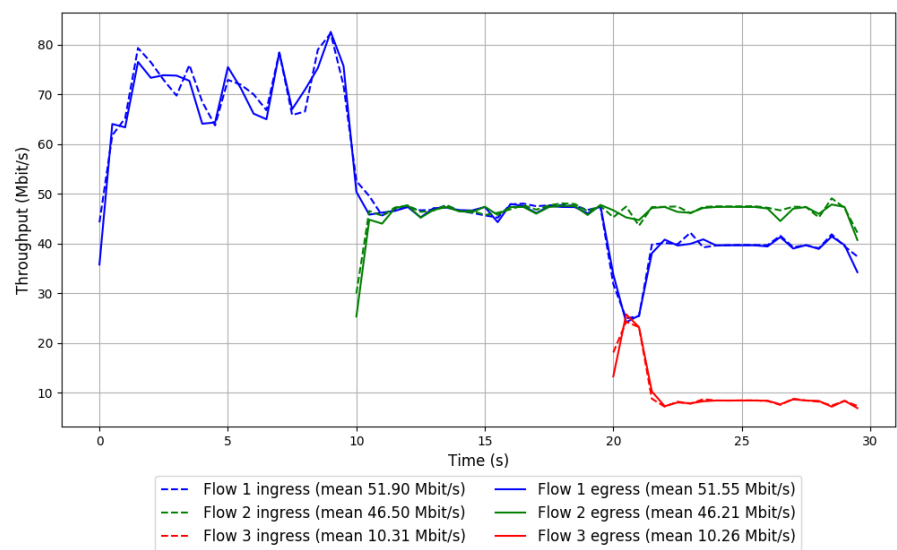


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-04-17 13:12:37
End at: 2018-04-17 13:13:07
Local clock offset: -0.18 ms
Remote clock offset: -2.075 ms

# Below is generated by plot.py at 2018-04-17 21:54:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.68 Mbit/s
95th percentile per-packet one-way delay: 63.557 ms
Loss rate: 0.92%
-- Flow 1:
Average throughput: 51.55 Mbit/s
95th percentile per-packet one-way delay: 62.513 ms
Loss rate: 0.89%
-- Flow 2:
Average throughput: 46.21 Mbit/s
95th percentile per-packet one-way delay: 63.179 ms
Loss rate: 0.93%
-- Flow 3:
Average throughput: 10.26 Mbit/s
95th percentile per-packet one-way delay: 81.480 ms
Loss rate: 1.34%
```

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

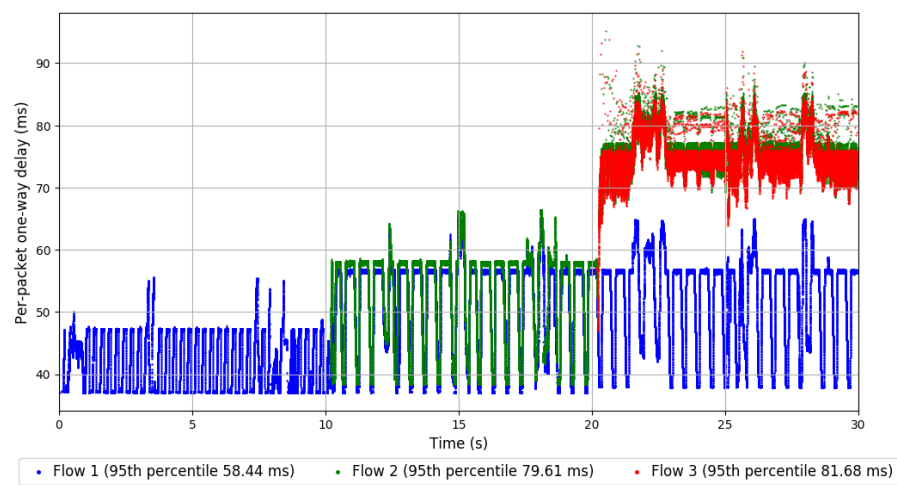
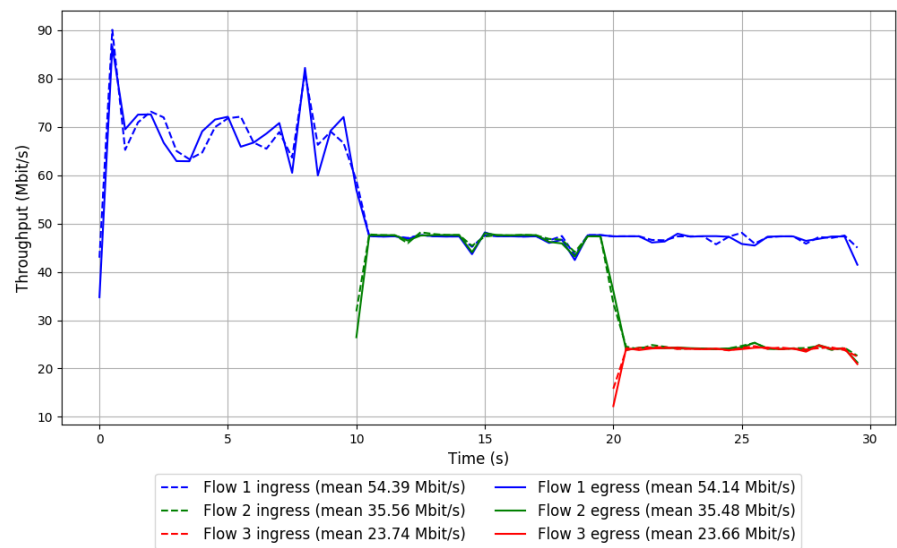


Run 2: Statistics of TaoVA-100x

Start at: 2018-04-17 13:36:45  
End at: 2018-04-17 13:37:15  
Local clock offset: 2.452 ms  
Remote clock offset: -2.283 ms

# Below is generated by plot.py at 2018-04-17 21:55:05  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 85.56 Mbit/s  
95th percentile per-packet one-way delay: 76.883 ms  
Loss rate: 0.71%  
-- Flow 1:  
Average throughput: 54.14 Mbit/s  
95th percentile per-packet one-way delay: 58.435 ms  
Loss rate: 0.67%  
-- Flow 2:  
Average throughput: 35.48 Mbit/s  
95th percentile per-packet one-way delay: 79.611 ms  
Loss rate: 0.65%  
-- Flow 3:  
Average throughput: 23.66 Mbit/s  
95th percentile per-packet one-way delay: 81.678 ms  
Loss rate: 1.21%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-04-17 14:00:12

End at: 2018-04-17 14:00:42

Local clock offset: 4.837 ms

Remote clock offset: -2.43 ms

# Below is generated by plot.py at 2018-04-17 21:55:11

# Datalink statistics

-- Total of 3 flows:

Average throughput: 87.72 Mbit/s

95th percentile per-packet one-way delay: 65.686 ms

Loss rate: 2.84%

-- Flow 1:

Average throughput: 44.90 Mbit/s

95th percentile per-packet one-way delay: 64.233 ms

Loss rate: 2.10%

-- Flow 2:

Average throughput: 45.12 Mbit/s

95th percentile per-packet one-way delay: 65.589 ms

Loss rate: 3.28%

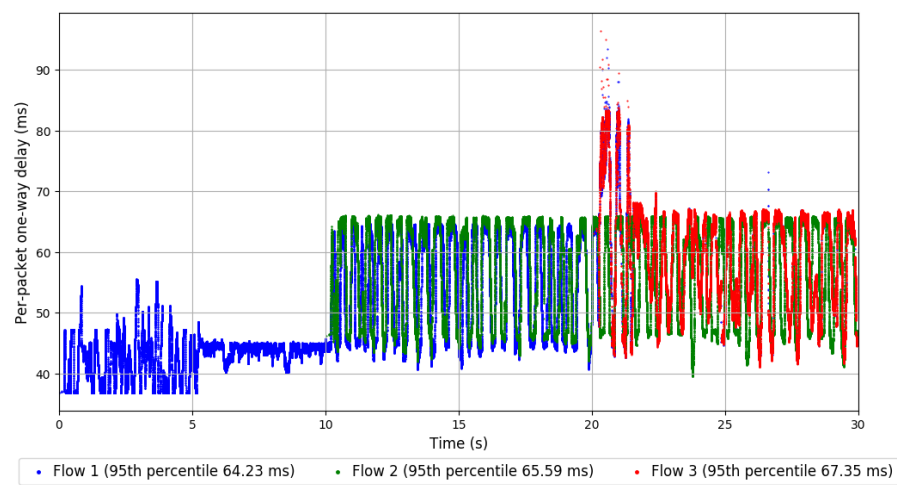
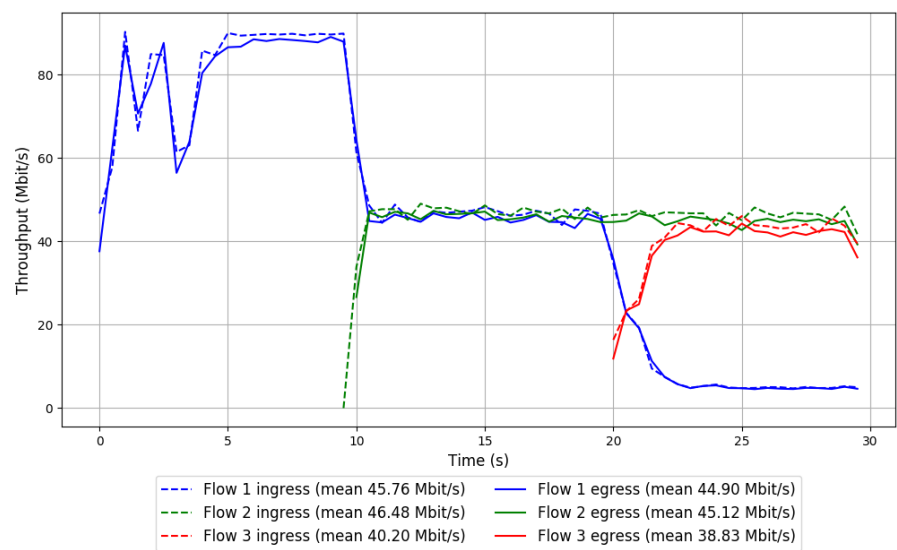
-- Flow 3:

Average throughput: 38.83 Mbit/s

95th percentile per-packet one-way delay: 67.351 ms

Loss rate: 4.33%

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

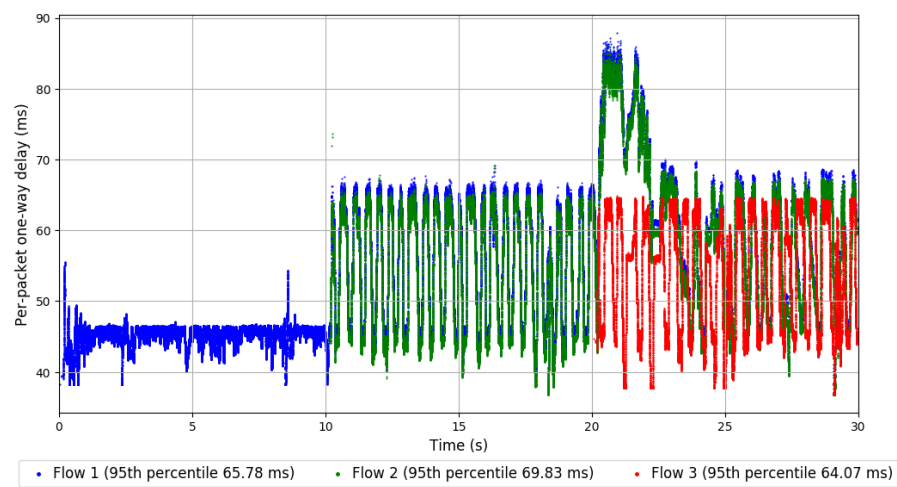
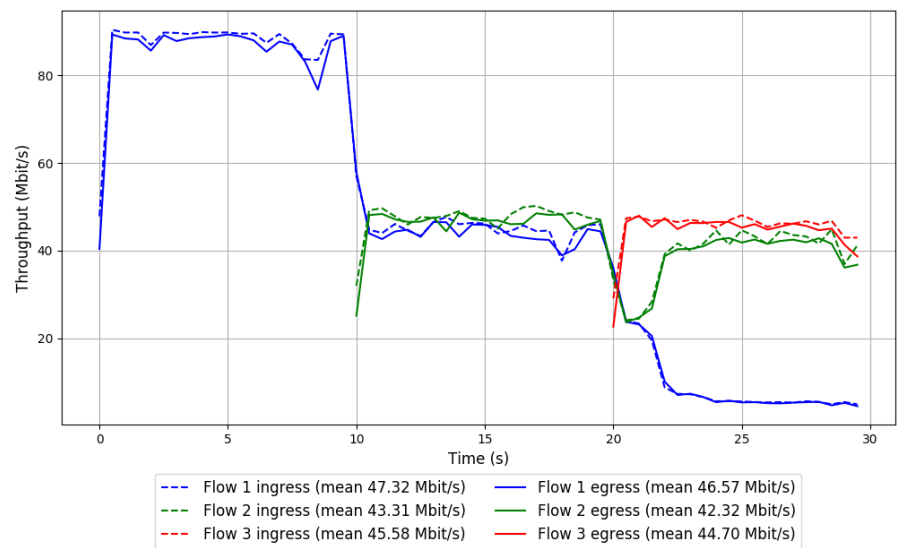


Run 4: Statistics of TaoVA-100x

Start at: 2018-04-17 14:25:47  
End at: 2018-04-17 14:26:17  
Local clock offset: 11.163 ms  
Remote clock offset: -1.198 ms

# Below is generated by plot.py at 2018-04-17 21:55:12  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 89.49 Mbit/s  
95th percentile per-packet one-way delay: 66.065 ms  
Loss rate: 2.24%  
-- Flow 1:  
Average throughput: 46.57 Mbit/s  
95th percentile per-packet one-way delay: 65.776 ms  
Loss rate: 1.82%  
-- Flow 2:  
Average throughput: 42.32 Mbit/s  
95th percentile per-packet one-way delay: 69.831 ms  
Loss rate: 2.67%  
-- Flow 3:  
Average throughput: 44.70 Mbit/s  
95th percentile per-packet one-way delay: 64.071 ms  
Loss rate: 2.72%

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



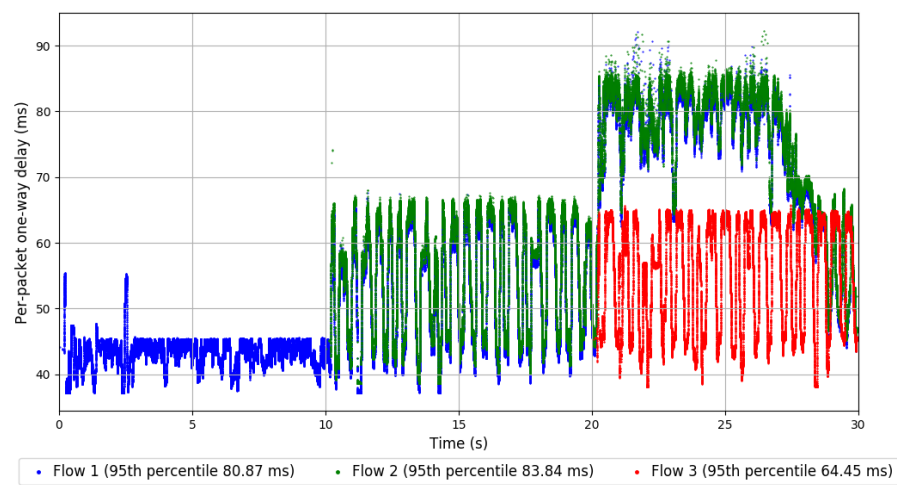
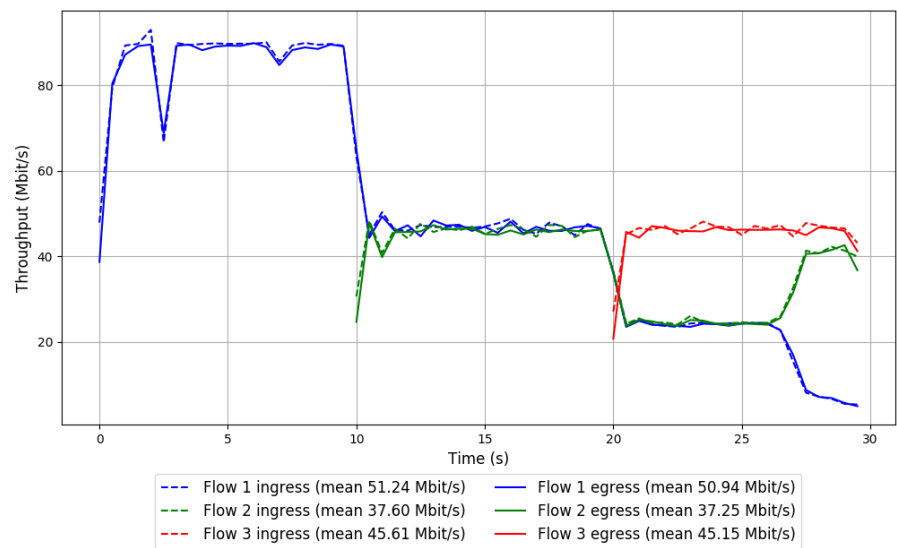


Run 5: Statistics of TaoVA-100x

Start at: 2018-04-17 14:54:28  
End at: 2018-04-17 14:54:58  
Local clock offset: 0.293 ms  
Remote clock offset: -0.319 ms

# Below is generated by plot.py at 2018-04-17 21:55:16  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 90.63 Mbit/s  
95th percentile per-packet one-way delay: 81.905 ms  
Loss rate: 1.11%  
-- Flow 1:  
Average throughput: 50.94 Mbit/s  
95th percentile per-packet one-way delay: 80.870 ms  
Loss rate: 0.83%  
-- Flow 2:  
Average throughput: 37.25 Mbit/s  
95th percentile per-packet one-way delay: 83.836 ms  
Loss rate: 1.28%  
-- Flow 3:  
Average throughput: 45.15 Mbit/s  
95th percentile per-packet one-way delay: 64.446 ms  
Loss rate: 1.76%

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

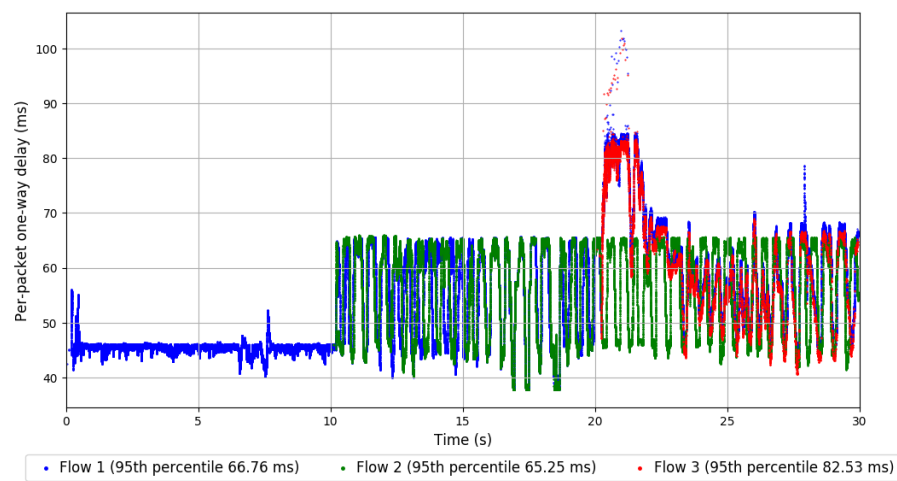
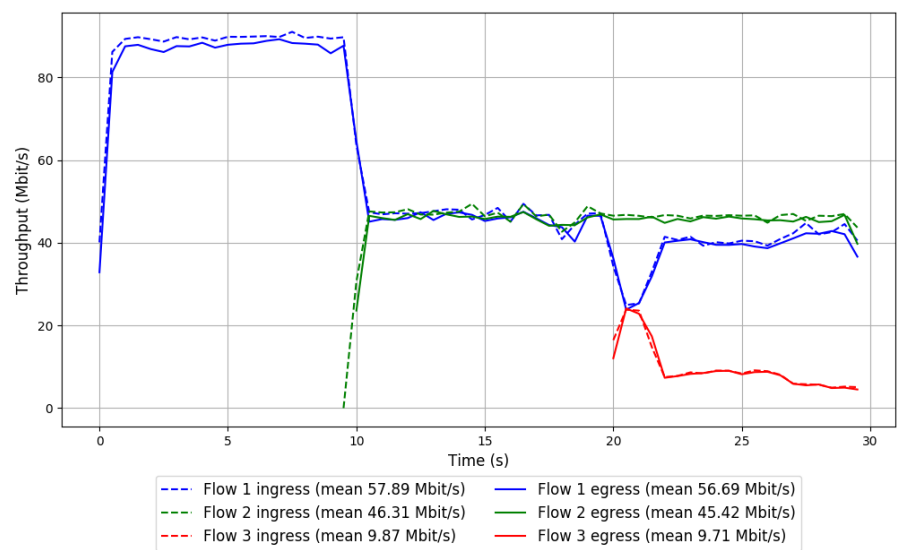


Run 6: Statistics of TaoVA-100x

Start at: 2018-04-17 15:22:33  
End at: 2018-04-17 15:23:03  
Local clock offset: -1.565 ms  
Remote clock offset: -4.174 ms

# Below is generated by plot.py at 2018-04-17 21:55:18  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 90.12 Mbit/s  
95th percentile per-packet one-way delay: 66.133 ms  
Loss rate: 2.31%  
-- Flow 1:  
Average throughput: 56.69 Mbit/s  
95th percentile per-packet one-way delay: 66.758 ms  
Loss rate: 2.31%  
-- Flow 2:  
Average throughput: 45.42 Mbit/s  
95th percentile per-packet one-way delay: 65.247 ms  
Loss rate: 2.30%  
-- Flow 3:  
Average throughput: 9.71 Mbit/s  
95th percentile per-packet one-way delay: 82.527 ms  
Loss rate: 2.46%

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

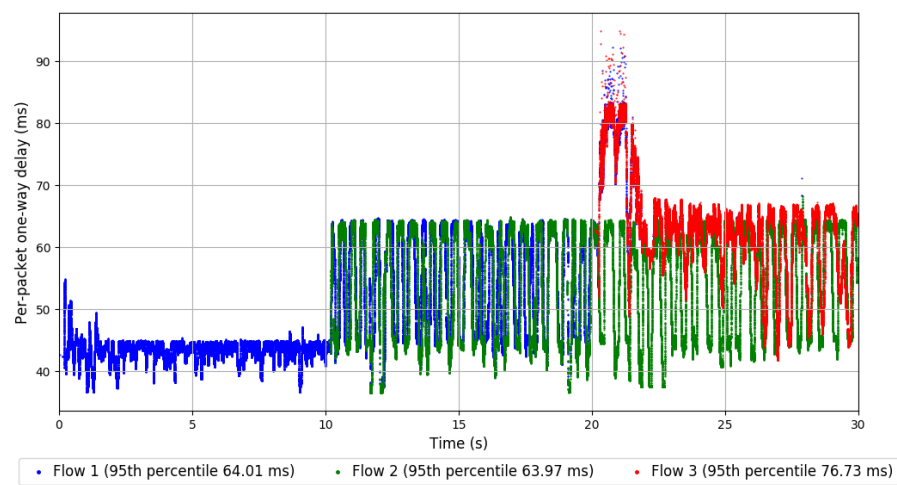
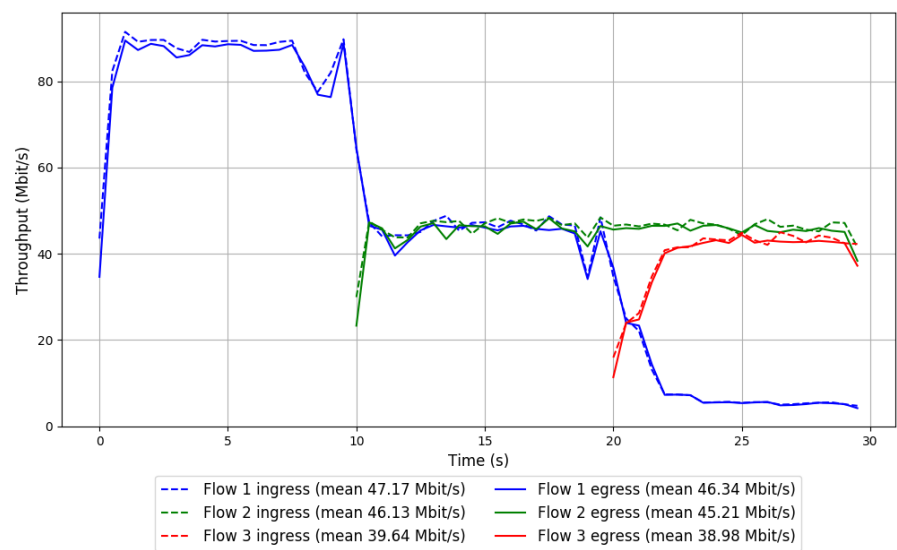


Run 7: Statistics of TaoVA-100x

Start at: 2018-04-17 15:49:58  
End at: 2018-04-17 15:50:28  
Local clock offset: -0.813 ms  
Remote clock offset: -6.803 ms

# Below is generated by plot.py at 2018-04-17 21:55:18  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 89.27 Mbit/s  
95th percentile per-packet one-way delay: 65.538 ms  
Loss rate: 2.21%  
-- Flow 1:  
Average throughput: 46.34 Mbit/s  
95th percentile per-packet one-way delay: 64.013 ms  
Loss rate: 1.99%  
-- Flow 2:  
Average throughput: 45.21 Mbit/s  
95th percentile per-packet one-way delay: 63.965 ms  
Loss rate: 2.37%  
-- Flow 3:  
Average throughput: 38.98 Mbit/s  
95th percentile per-packet one-way delay: 76.735 ms  
Loss rate: 2.59%

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

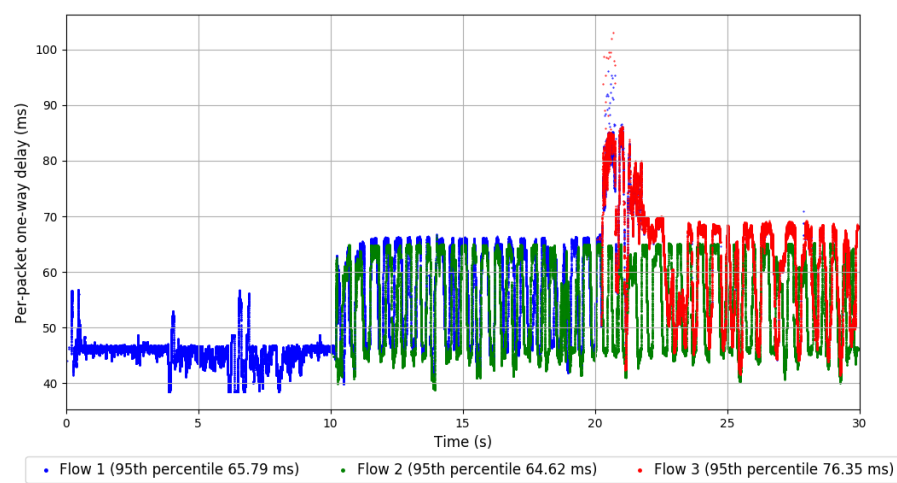
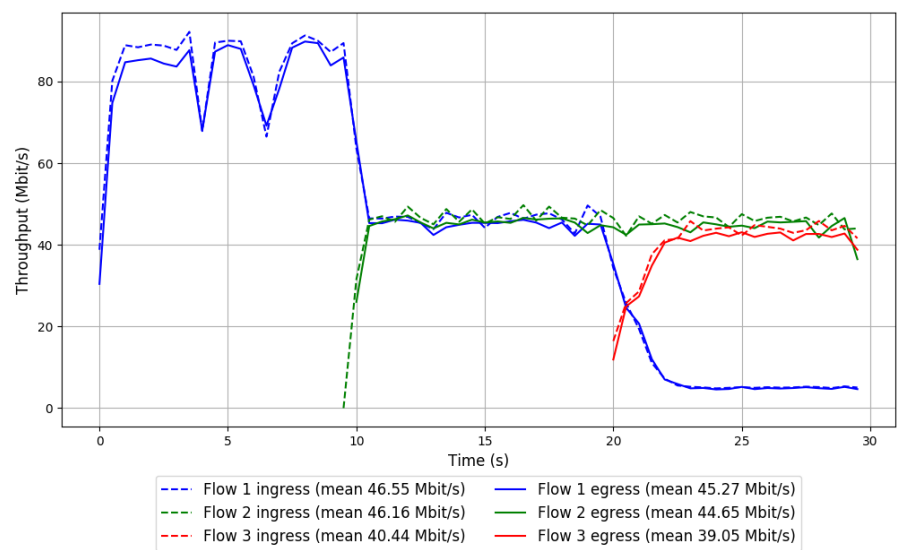


Run 8: Statistics of TaoVA-100x

Start at: 2018-04-17 16:19:32  
End at: 2018-04-17 16:20:02  
Local clock offset: -0.159 ms  
Remote clock offset: -6.852 ms

# Below is generated by plot.py at 2018-04-17 21:55:21  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 87.86 Mbit/s  
95th percentile per-packet one-way delay: 67.673 ms  
Loss rate: 3.43%  
-- Flow 1:  
Average throughput: 45.27 Mbit/s  
95th percentile per-packet one-way delay: 65.787 ms  
Loss rate: 3.00%  
-- Flow 2:  
Average throughput: 44.65 Mbit/s  
95th percentile per-packet one-way delay: 64.617 ms  
Loss rate: 3.63%  
-- Flow 3:  
Average throughput: 39.05 Mbit/s  
95th percentile per-packet one-way delay: 76.354 ms  
Loss rate: 4.47%

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





Run 9: Statistics of TaoVA-100x

Start at: 2018-04-17 16:44:48

End at: 2018-04-17 16:45:18

Local clock offset: -0.222 ms

Remote clock offset: -1.79 ms

# Below is generated by plot.py at 2018-04-17 21:57:23

# Datalink statistics

-- Total of 3 flows:

Average throughput: 86.72 Mbit/s

95th percentile per-packet one-way delay: 66.288 ms

Loss rate: 1.84%

-- Flow 1:

Average throughput: 43.97 Mbit/s

95th percentile per-packet one-way delay: 64.354 ms

Loss rate: 1.37%

-- Flow 2:

Average throughput: 45.39 Mbit/s

95th percentile per-packet one-way delay: 65.688 ms

Loss rate: 2.14%

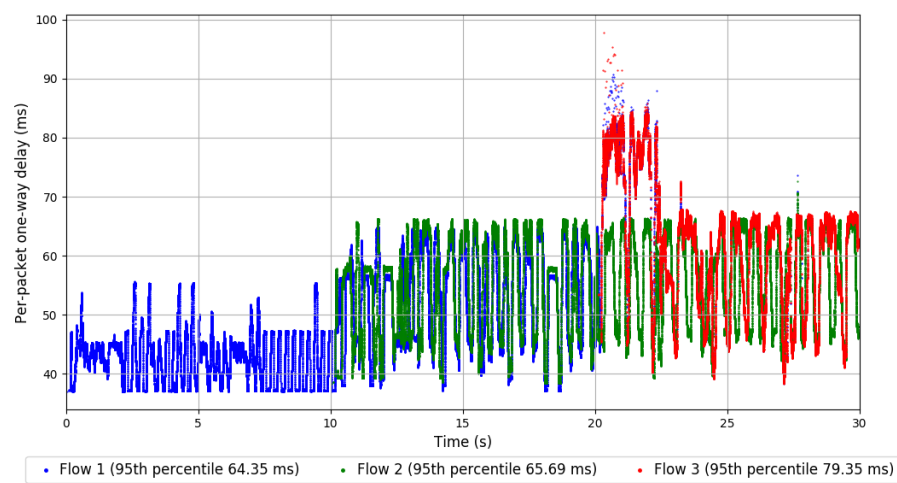
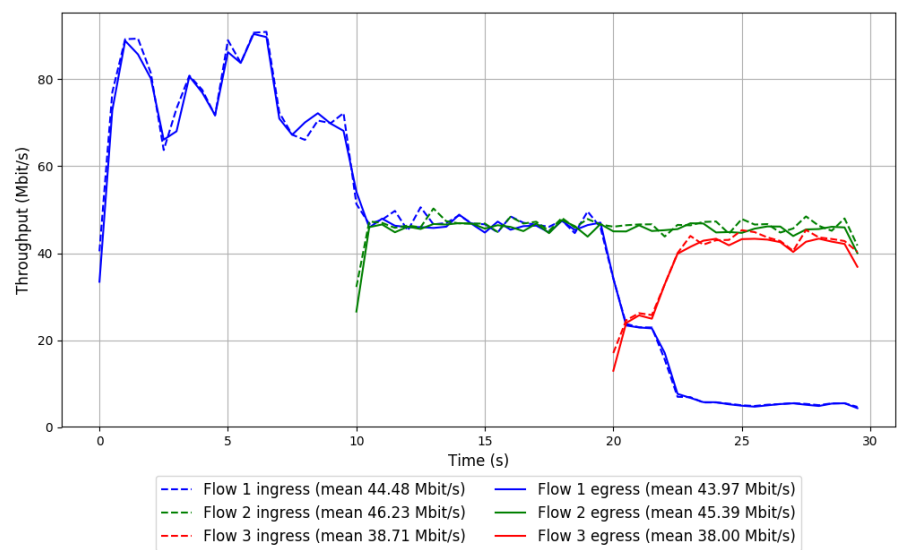
-- Flow 3:

Average throughput: 38.00 Mbit/s

95th percentile per-packet one-way delay: 79.352 ms

Loss rate: 2.72%

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

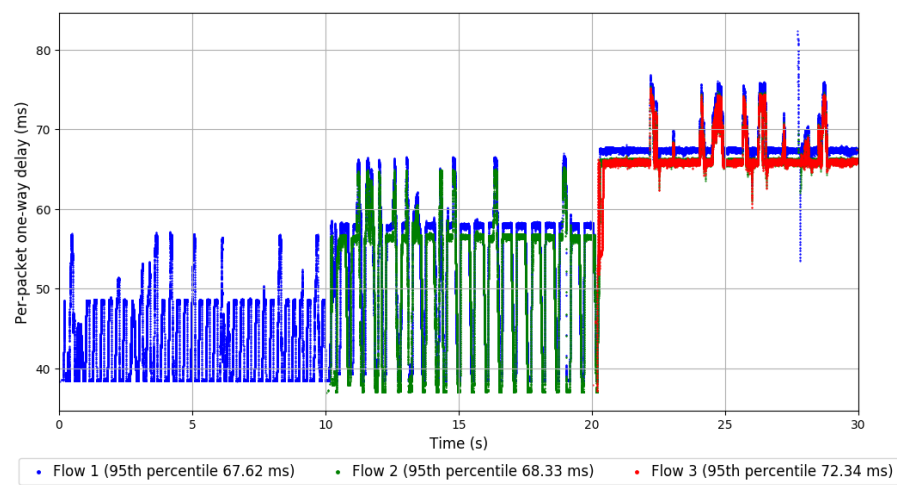
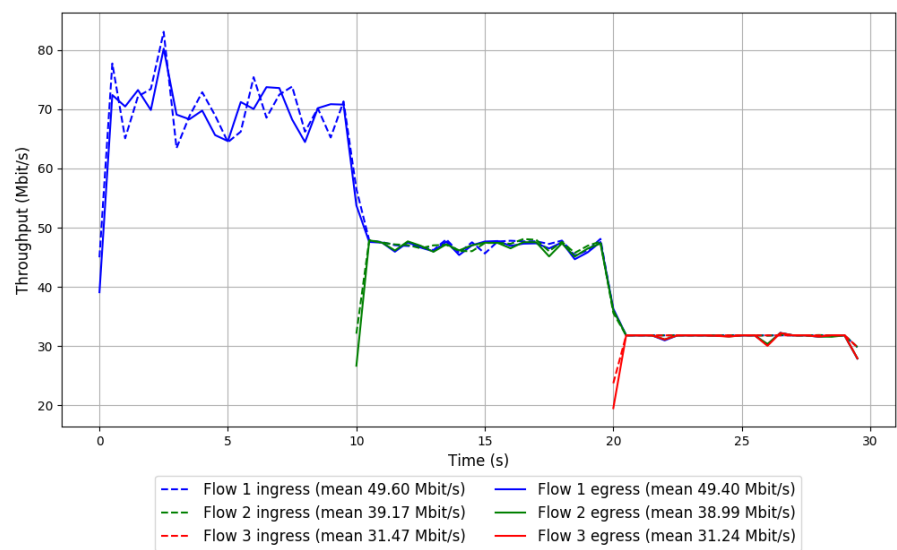


Run 10: Statistics of TaoVA-100x

Start at: 2018-04-17 17:09:54  
End at: 2018-04-17 17:10:24  
Local clock offset: 0.77 ms  
Remote clock offset: -2.659 ms

# Below is generated by plot.py at 2018-04-17 21:57:35  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 85.68 Mbit/s  
95th percentile per-packet one-way delay: 68.271 ms  
Loss rate: 0.82%  
-- Flow 1:  
Average throughput: 49.40 Mbit/s  
95th percentile per-packet one-way delay: 67.623 ms  
Loss rate: 0.67%  
-- Flow 2:  
Average throughput: 38.99 Mbit/s  
95th percentile per-packet one-way delay: 68.328 ms  
Loss rate: 0.86%  
-- Flow 3:  
Average throughput: 31.24 Mbit/s  
95th percentile per-packet one-way delay: 72.337 ms  
Loss rate: 1.38%

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

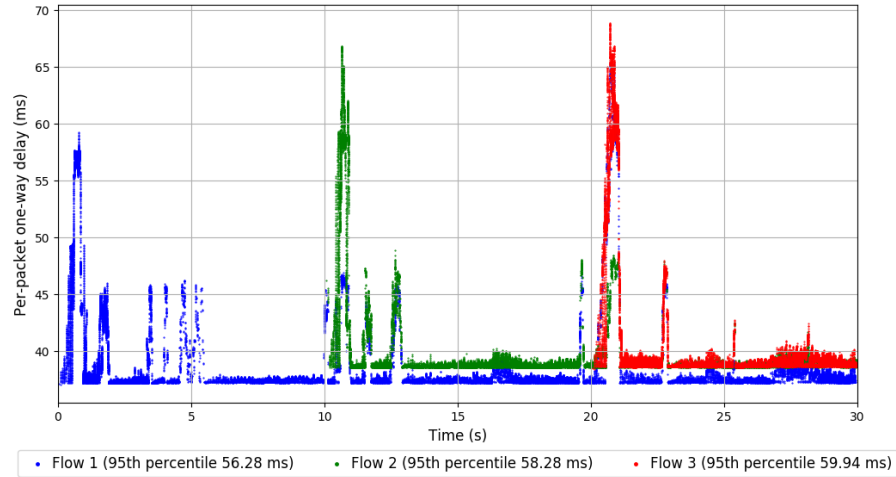
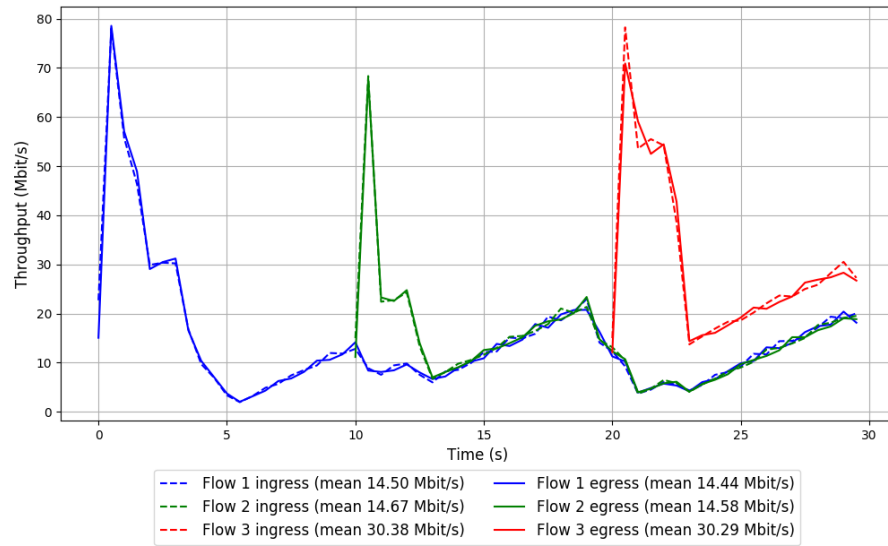


Run 1: Statistics of TCP Vegas

Start at: 2018-04-17 13:20:03  
End at: 2018-04-17 13:20:33  
Local clock offset: -0.336 ms  
Remote clock offset: -1.848 ms

# Below is generated by plot.py at 2018-04-17 21:57:35  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 34.14 Mbit/s  
95th percentile per-packet one-way delay: 57.467 ms  
Loss rate: 0.83%  
-- Flow 1:  
Average throughput: 14.44 Mbit/s  
95th percentile per-packet one-way delay: 56.282 ms  
Loss rate: 0.63%  
-- Flow 2:  
Average throughput: 14.58 Mbit/s  
95th percentile per-packet one-way delay: 58.283 ms  
Loss rate: 0.96%  
-- Flow 3:  
Average throughput: 30.29 Mbit/s  
95th percentile per-packet one-way delay: 59.935 ms  
Loss rate: 1.00%

# Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-04-17 13:43:49

End at: 2018-04-17 13:44:19

Local clock offset: 2.98 ms

Remote clock offset: -1.98 ms

# Below is generated by plot.py at 2018-04-17 21:57:35

# Datalink statistics

-- Total of 3 flows:

Average throughput: 58.24 Mbit/s

95th percentile per-packet one-way delay: 52.467 ms

Loss rate: 0.32%

-- Flow 1:

Average throughput: 21.14 Mbit/s

95th percentile per-packet one-way delay: 49.842 ms

Loss rate: 0.50%

-- Flow 2:

Average throughput: 32.96 Mbit/s

95th percentile per-packet one-way delay: 54.498 ms

Loss rate: 0.17%

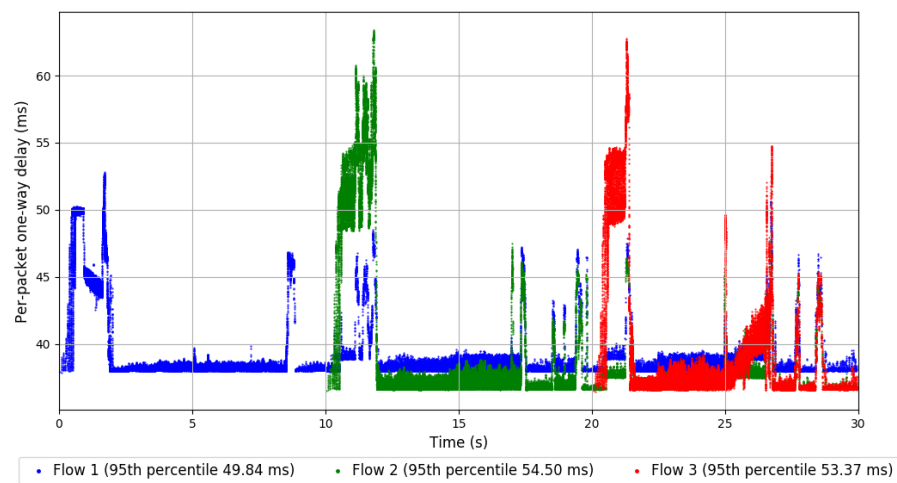
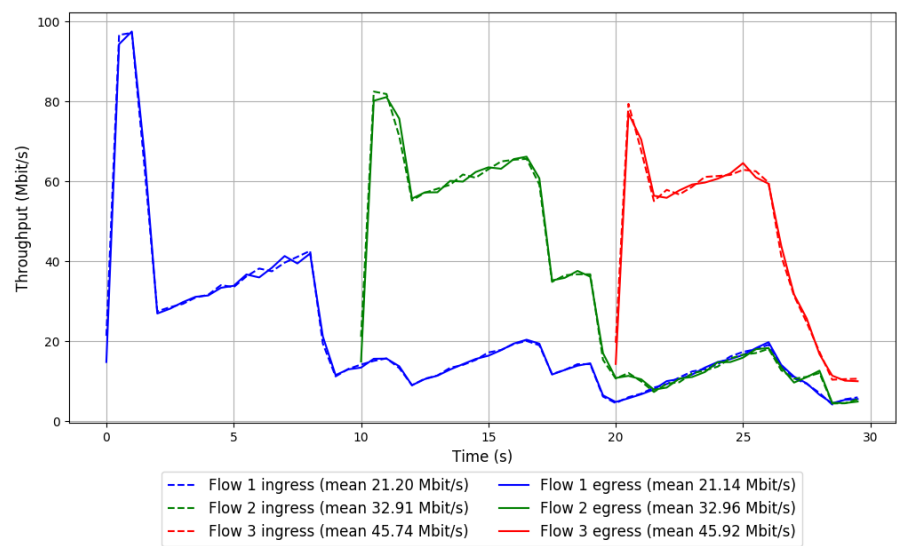
-- Flow 3:

Average throughput: 45.92 Mbit/s

95th percentile per-packet one-way delay: 53.371 ms

Loss rate: 0.27%

Run 2: Report of TCP Vegas — Data Link



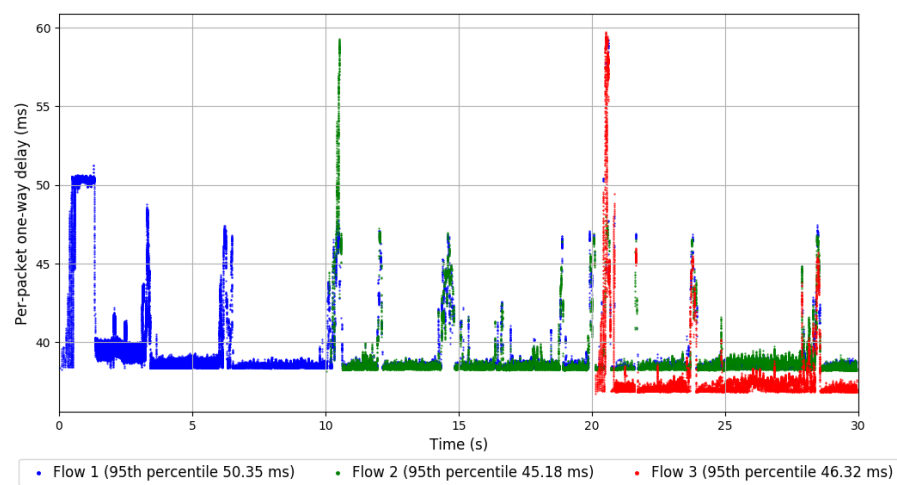
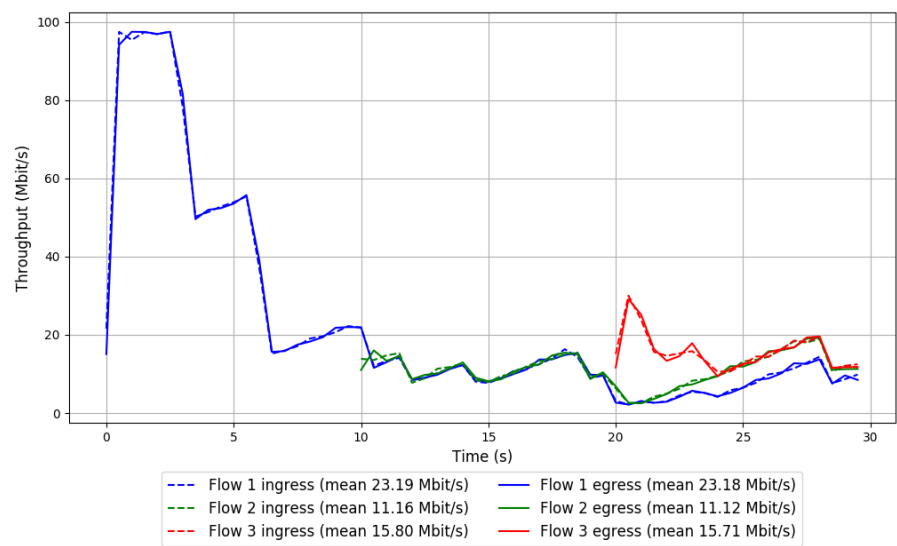


Run 3: Statistics of TCP Vegas

Start at: 2018-04-17 14:08:18  
End at: 2018-04-17 14:08:48  
Local clock offset: 7.905 ms  
Remote clock offset: -1.948 ms

# Below is generated by plot.py at 2018-04-17 21:57:35  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 35.75 Mbit/s  
95th percentile per-packet one-way delay: 50.308 ms  
Loss rate: 0.52%  
-- Flow 1:  
Average throughput: 23.18 Mbit/s  
95th percentile per-packet one-way delay: 50.348 ms  
Loss rate: 0.29%  
-- Flow 2:  
Average throughput: 11.12 Mbit/s  
95th percentile per-packet one-way delay: 45.179 ms  
Loss rate: 0.67%  
-- Flow 3:  
Average throughput: 15.71 Mbit/s  
95th percentile per-packet one-way delay: 46.320 ms  
Loss rate: 1.36%

Run 3: Report of TCP Vegas — Data Link

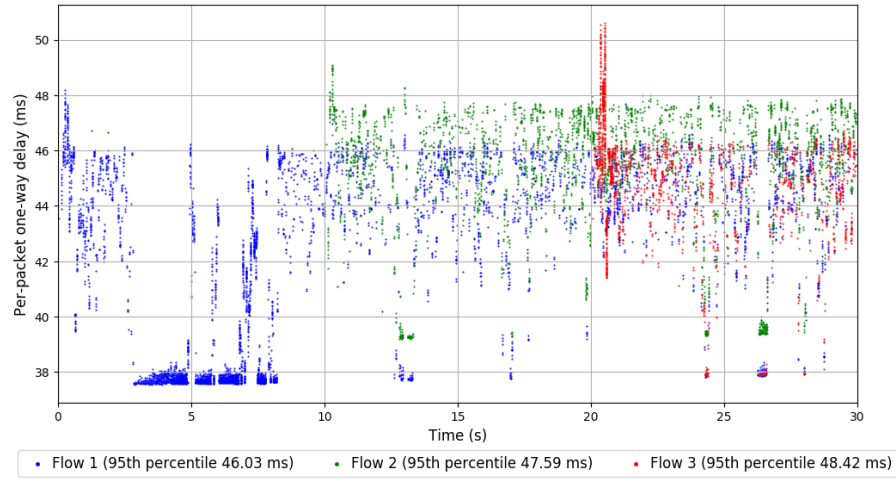
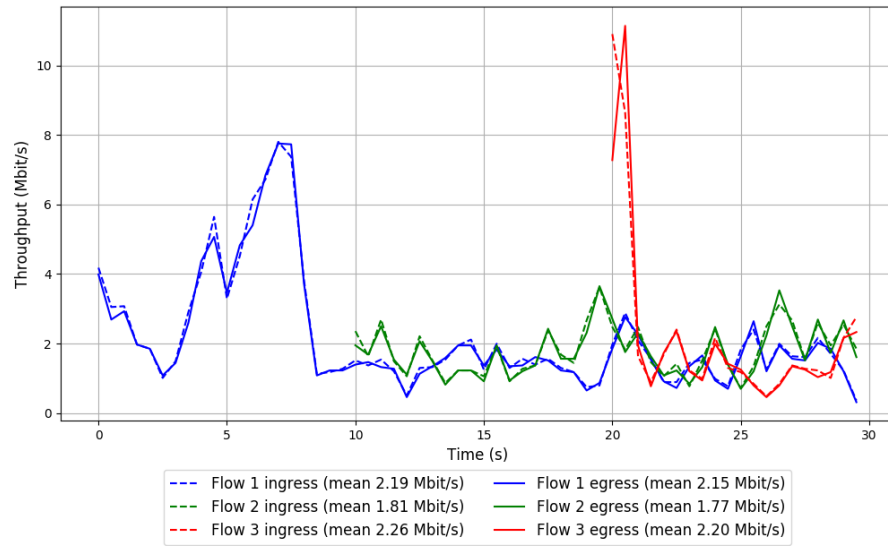


Run 4: Statistics of TCP Vegas

Start at: 2018-04-17 14:37:16  
End at: 2018-04-17 14:37:46  
Local clock offset: 7.005 ms  
Remote clock offset: -0.954 ms

```
# Below is generated by plot.py at 2018-04-17 21:57:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.05 Mbit/s
95th percentile per-packet one-way delay: 47.485 ms
Loss rate: 2.29%
-- Flow 1:
Average throughput: 2.15 Mbit/s
95th percentile per-packet one-way delay: 46.032 ms
Loss rate: 1.87%
-- Flow 2:
Average throughput: 1.77 Mbit/s
95th percentile per-packet one-way delay: 47.586 ms
Loss rate: 2.26%
-- Flow 3:
Average throughput: 2.20 Mbit/s
95th percentile per-packet one-way delay: 48.420 ms
Loss rate: 3.58%
```

# Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-04-17 15:03:57

End at: 2018-04-17 15:04:27

Local clock offset: -1.223 ms

Remote clock offset: 0.43 ms

# Below is generated by plot.py at 2018-04-17 21:57:35

# Datalink statistics

-- Total of 3 flows:

Average throughput: 6.33 Mbit/s

95th percentile per-packet one-way delay: 45.328 ms

Loss rate: 1.21%

-- Flow 1:

Average throughput: 2.90 Mbit/s

95th percentile per-packet one-way delay: 44.917 ms

Loss rate: 0.90%

-- Flow 2:

Average throughput: 2.71 Mbit/s

95th percentile per-packet one-way delay: 45.190 ms

Loss rate: 1.56%

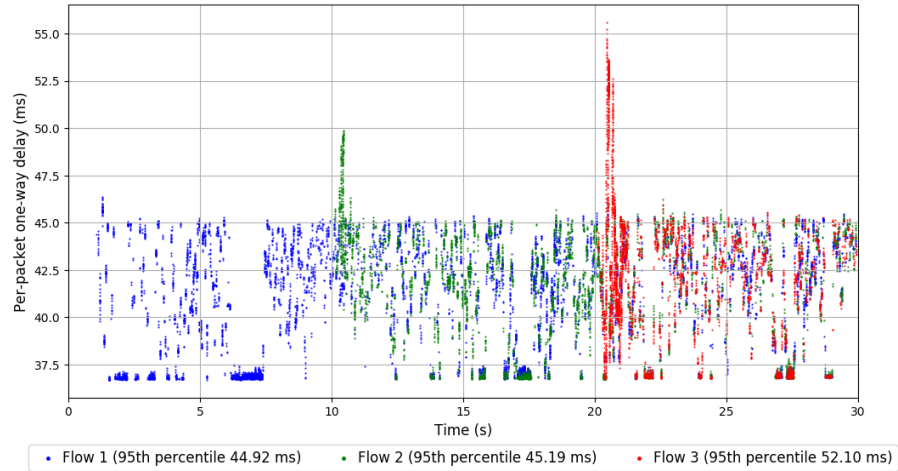
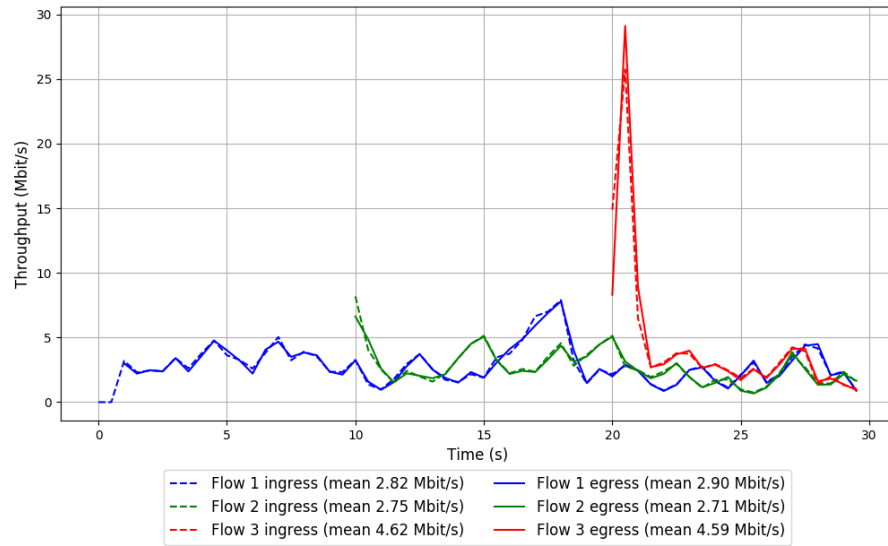
-- Flow 3:

Average throughput: 4.59 Mbit/s

95th percentile per-packet one-way delay: 52.100 ms

Loss rate: 1.36%

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

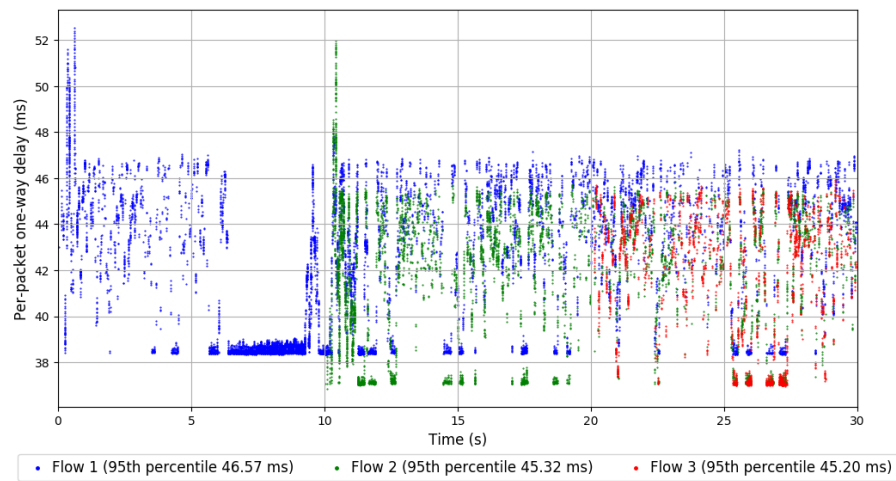
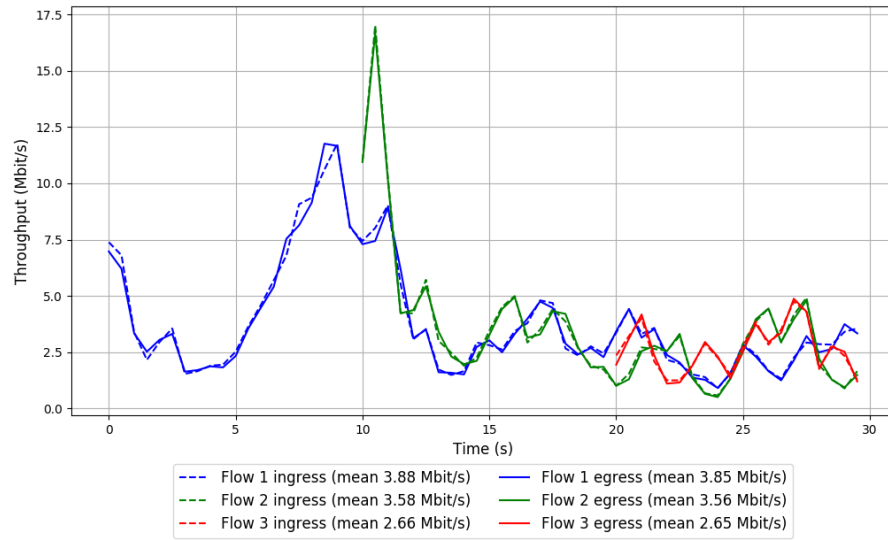


Run 6: Statistics of TCP Vegas

Start at: 2018-04-17 15:31:56  
End at: 2018-04-17 15:32:26  
Local clock offset: -2.303 ms  
Remote clock offset: -6.601 ms

```
# Below is generated by plot.py at 2018-04-17 21:57:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 7.09 Mbit/s
95th percentile per-packet one-way delay: 46.381 ms
Loss rate: 0.90%
-- Flow 1:
Average throughput: 3.85 Mbit/s
95th percentile per-packet one-way delay: 46.573 ms
Loss rate: 0.86%
-- Flow 2:
Average throughput: 3.56 Mbit/s
95th percentile per-packet one-way delay: 45.317 ms
Loss rate: 0.91%
-- Flow 3:
Average throughput: 2.65 Mbit/s
95th percentile per-packet one-way delay: 45.205 ms
Loss rate: 1.04%
```

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



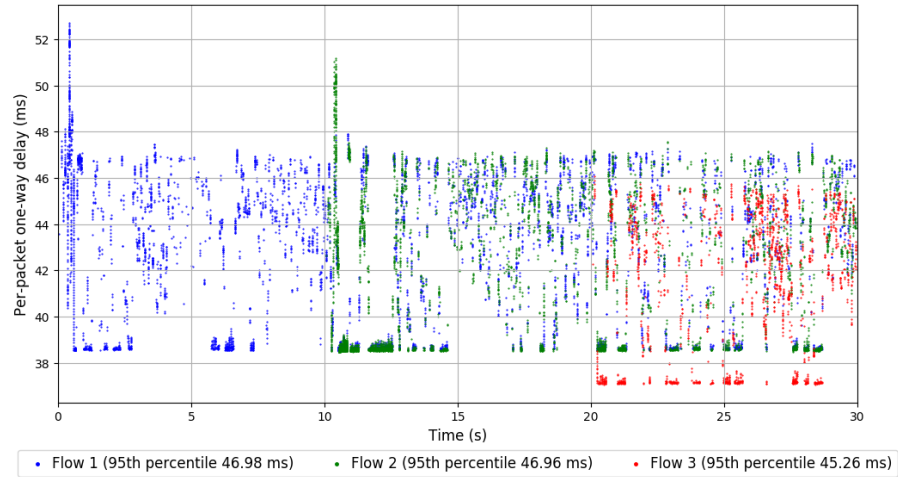
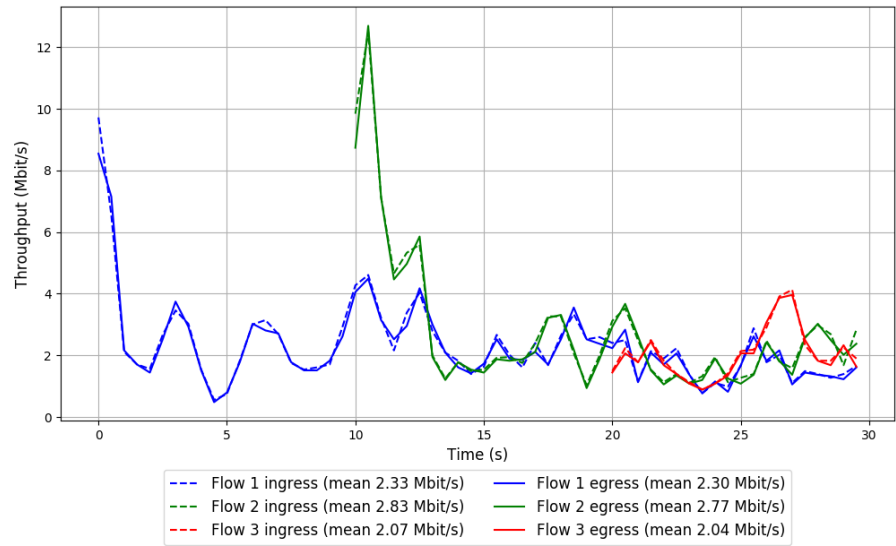


Run 7: Statistics of TCP Vegas

Start at: 2018-04-17 16:00:40  
End at: 2018-04-17 16:01:10  
Local clock offset: -0.355 ms  
Remote clock offset: -6.473 ms

# Below is generated by plot.py at 2018-04-17 21:57:35  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 4.81 Mbit/s  
95th percentile per-packet one-way delay: 46.905 ms  
Loss rate: 2.12%  
-- Flow 1:  
Average throughput: 2.30 Mbit/s  
95th percentile per-packet one-way delay: 46.977 ms  
Loss rate: 1.87%  
-- Flow 2:  
Average throughput: 2.77 Mbit/s  
95th percentile per-packet one-way delay: 46.958 ms  
Loss rate: 2.36%  
-- Flow 3:  
Average throughput: 2.04 Mbit/s  
95th percentile per-packet one-way delay: 45.256 ms  
Loss rate: 2.28%

# Run 7: Report of TCP Vegas — Data Link

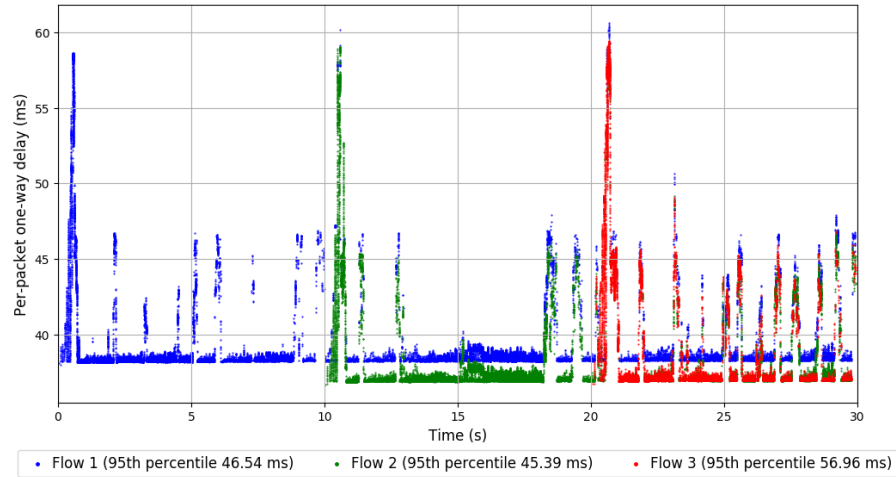
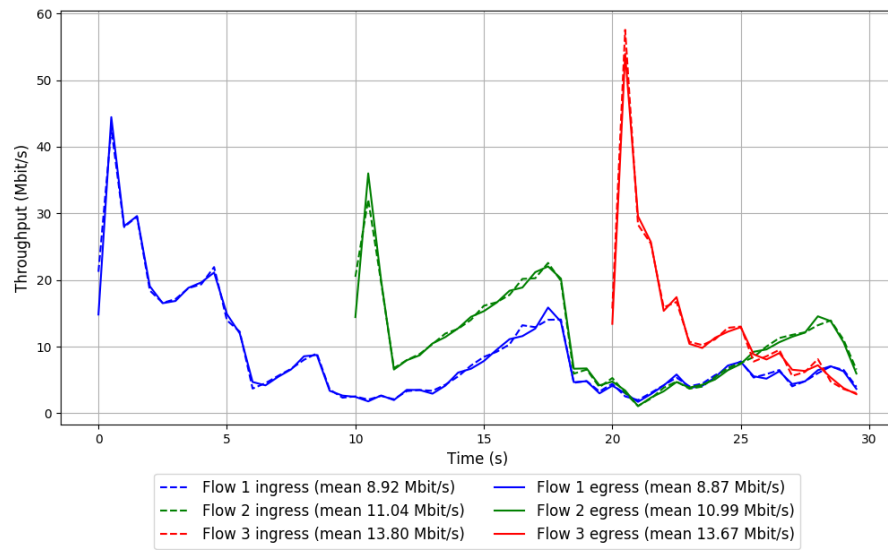


Run 8: Statistics of TCP Vegas

Start at: 2018-04-17 16:27:35  
End at: 2018-04-17 16:28:05  
Local clock offset: 0.015 ms  
Remote clock offset: -3.589 ms

# Below is generated by plot.py at 2018-04-17 21:57:35  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 20.69 Mbit/s  
95th percentile per-packet one-way delay: 48.625 ms  
Loss rate: 0.98%  
-- Flow 1:  
Average throughput: 8.87 Mbit/s  
95th percentile per-packet one-way delay: 46.536 ms  
Loss rate: 0.87%  
-- Flow 2:  
Average throughput: 10.99 Mbit/s  
95th percentile per-packet one-way delay: 45.390 ms  
Loss rate: 0.72%  
-- Flow 3:  
Average throughput: 13.67 Mbit/s  
95th percentile per-packet one-way delay: 56.963 ms  
Loss rate: 1.63%

# Run 8: Report of TCP Vegas — Data Link

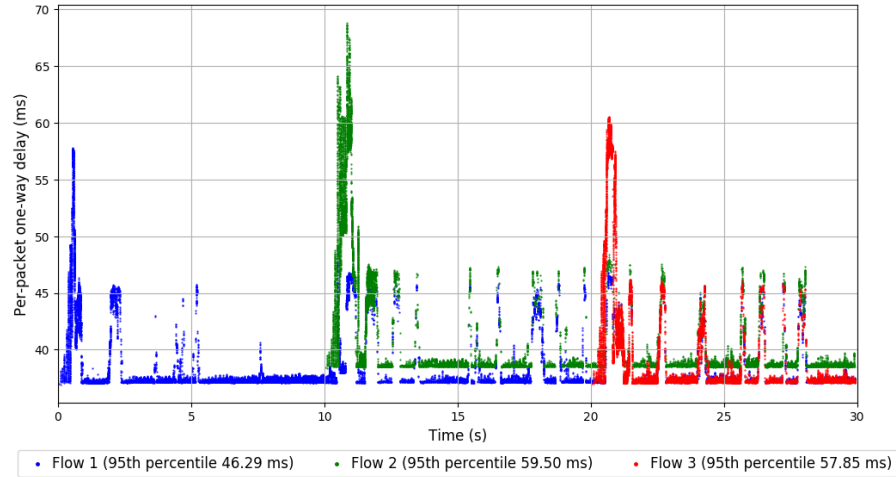
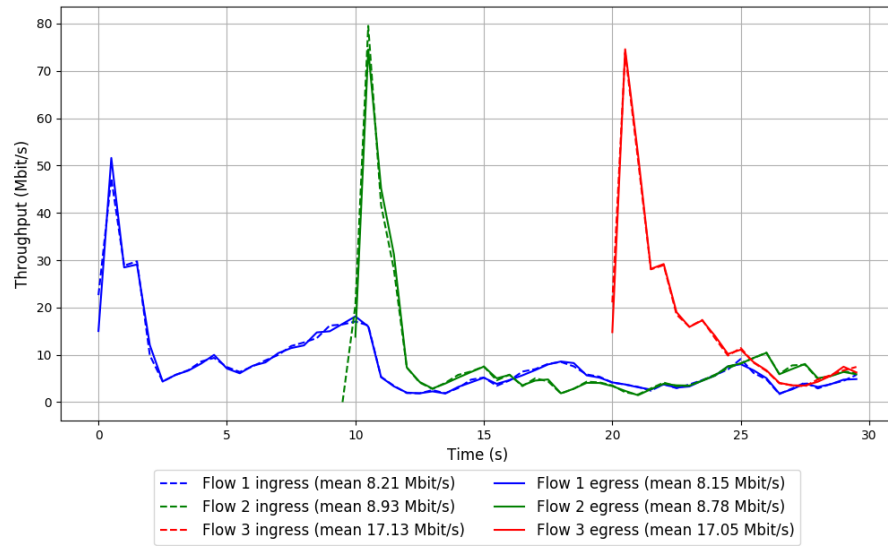


Run 9: Statistics of TCP Vegas

Start at: 2018-04-17 16:53:08  
End at: 2018-04-17 16:53:38  
Local clock offset: 0.227 ms  
Remote clock offset: -1.238 ms

# Below is generated by plot.py at 2018-04-17 21:57:35  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 19.62 Mbit/s  
95th percentile per-packet one-way delay: 57.589 ms  
Loss rate: 1.22%  
-- Flow 1:  
Average throughput: 8.15 Mbit/s  
95th percentile per-packet one-way delay: 46.292 ms  
Loss rate: 0.89%  
-- Flow 2:  
Average throughput: 8.78 Mbit/s  
95th percentile per-packet one-way delay: 59.496 ms  
Loss rate: 1.79%  
-- Flow 3:  
Average throughput: 17.05 Mbit/s  
95th percentile per-packet one-way delay: 57.852 ms  
Loss rate: 1.10%

# Run 9: Report of TCP Vegas — Data Link

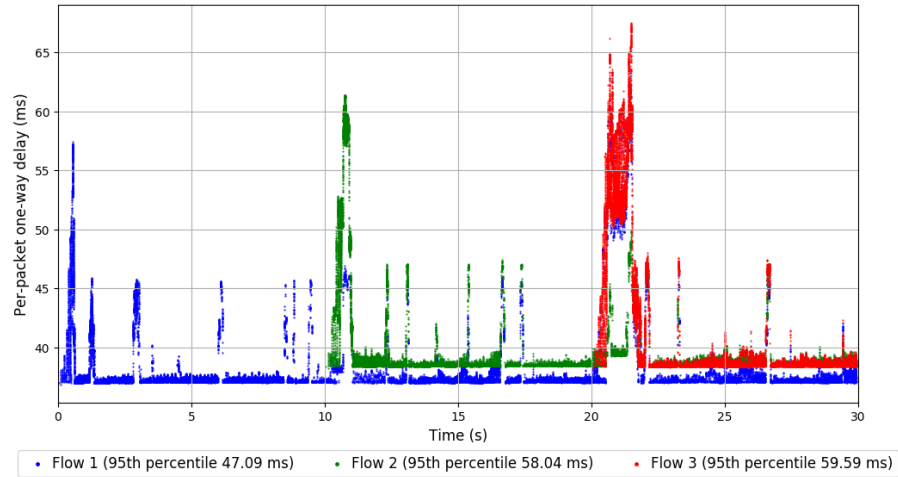
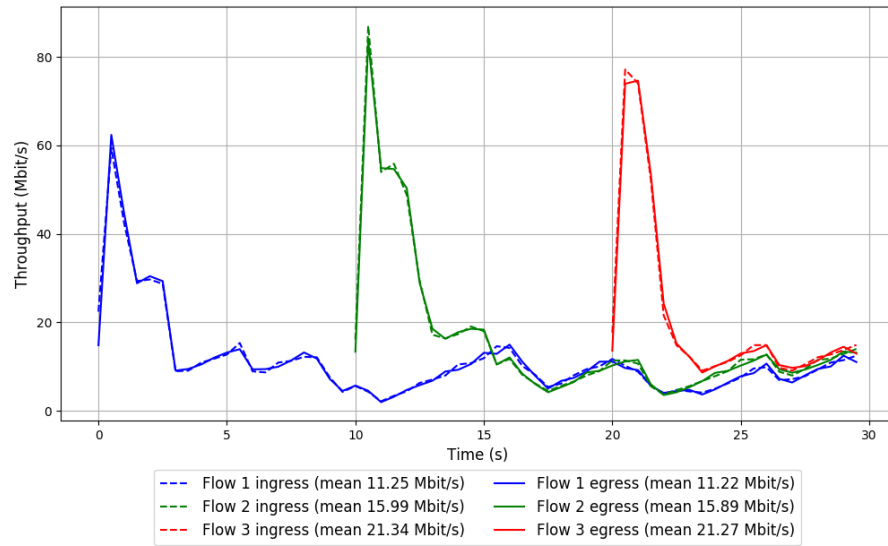


Run 10: Statistics of TCP Vegas

Start at: 2018-04-17 17:17:17  
End at: 2018-04-17 17:17:47  
Local clock offset: 0.845 ms  
Remote clock offset: -2.689 ms

# Below is generated by plot.py at 2018-04-17 21:57:35  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 28.81 Mbit/s  
95th percentile per-packet one-way delay: 57.442 ms  
Loss rate: 0.79%  
-- Flow 1:  
Average throughput: 11.22 Mbit/s  
95th percentile per-packet one-way delay: 47.092 ms  
Loss rate: 0.50%  
-- Flow 2:  
Average throughput: 15.89 Mbit/s  
95th percentile per-packet one-way delay: 58.040 ms  
Loss rate: 0.94%  
-- Flow 3:  
Average throughput: 21.27 Mbit/s  
95th percentile per-packet one-way delay: 59.585 ms  
Loss rate: 1.02%

# Run 10: Report of TCP Vegas — Data Link



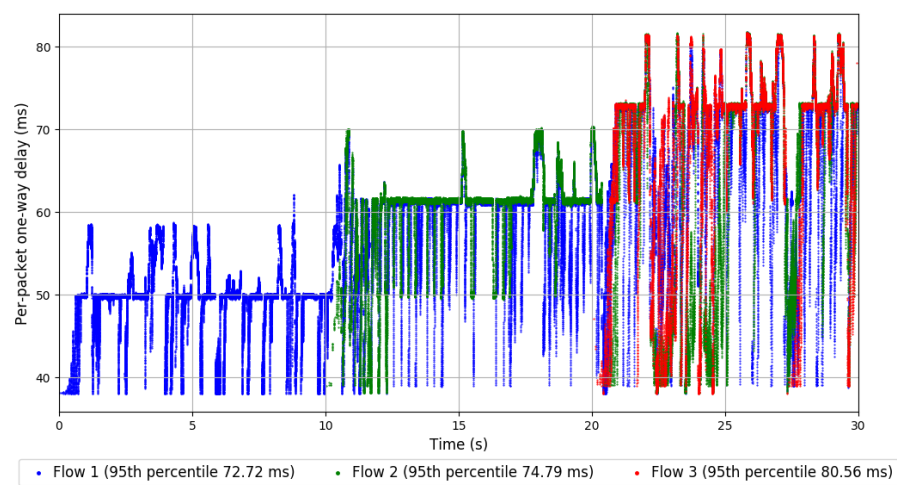
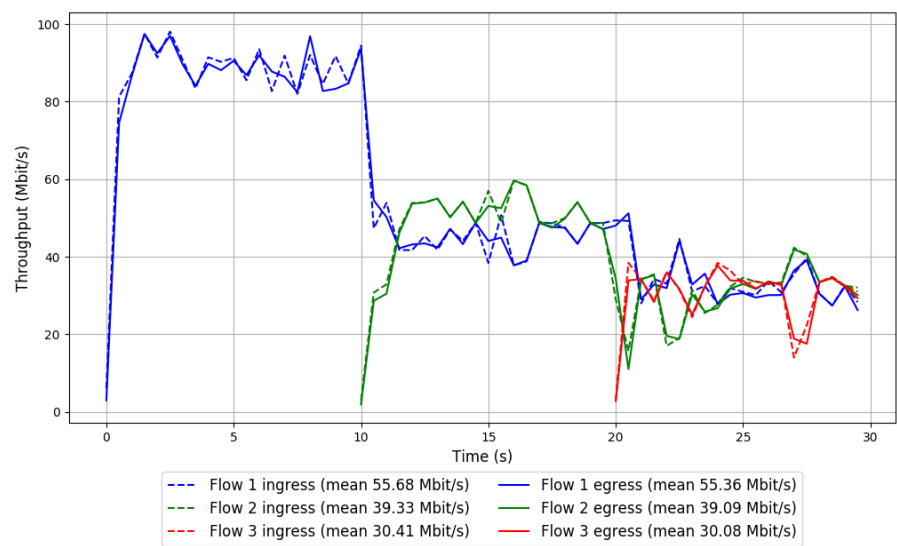


Run 1: Statistics of Verus

Start at: 2018-04-17 13:09:34  
End at: 2018-04-17 13:10:04  
Local clock offset: 0.108 ms  
Remote clock offset: -1.683 ms

# Below is generated by plot.py at 2018-04-17 21:57:35  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 91.28 Mbit/s  
95th percentile per-packet one-way delay: 73.915 ms  
Loss rate: 0.95%  
-- Flow 1:  
Average throughput: 55.36 Mbit/s  
95th percentile per-packet one-way delay: 72.716 ms  
Loss rate: 0.81%  
-- Flow 2:  
Average throughput: 39.09 Mbit/s  
95th percentile per-packet one-way delay: 74.788 ms  
Loss rate: 0.95%  
-- Flow 3:  
Average throughput: 30.08 Mbit/s  
95th percentile per-packet one-way delay: 80.564 ms  
Loss rate: 1.77%

Run 1: Report of Verus — Data Link

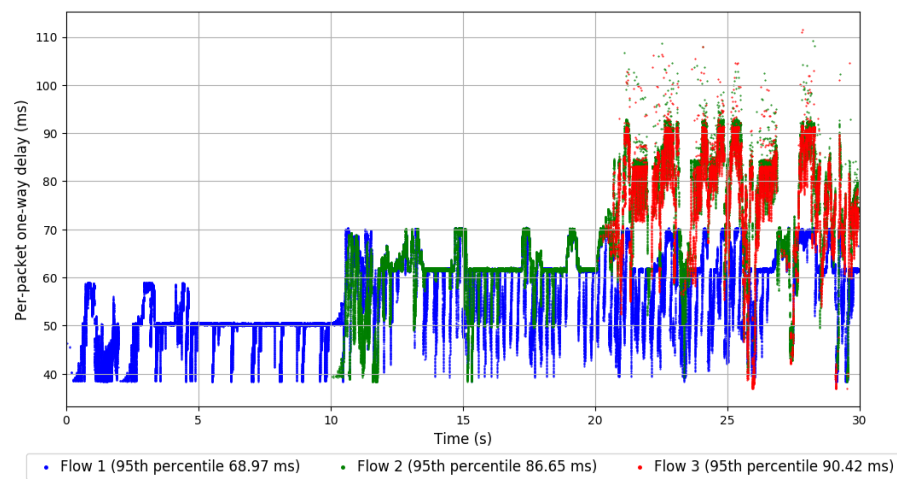
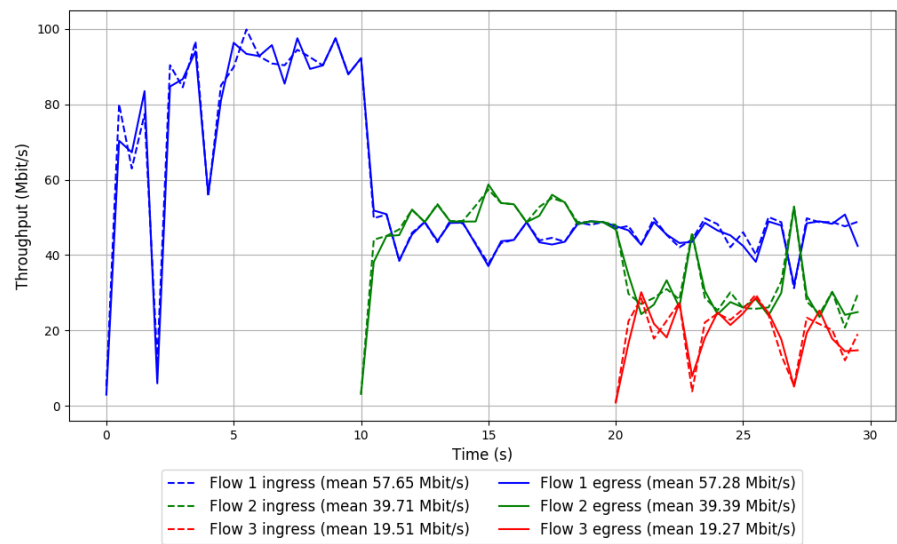


Run 2: Statistics of Verus

Start at: 2018-04-17 13:33:55  
End at: 2018-04-17 13:34:25  
Local clock offset: 2.117 ms  
Remote clock offset: -2.133 ms

# Below is generated by plot.py at 2018-04-17 21:57:35  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 89.84 Mbit/s  
95th percentile per-packet one-way delay: 82.903 ms  
Loss rate: 1.04%  
-- Flow 1:  
Average throughput: 57.28 Mbit/s  
95th percentile per-packet one-way delay: 68.970 ms  
Loss rate: 0.86%  
-- Flow 2:  
Average throughput: 39.39 Mbit/s  
95th percentile per-packet one-way delay: 86.647 ms  
Loss rate: 1.16%  
-- Flow 3:  
Average throughput: 19.27 Mbit/s  
95th percentile per-packet one-way delay: 90.420 ms  
Loss rate: 2.08%

Run 2: Report of Verus — Data Link

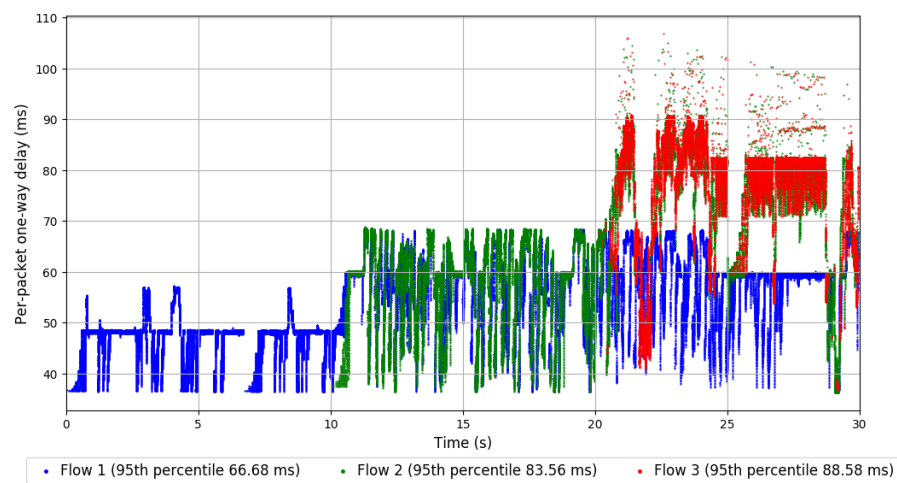
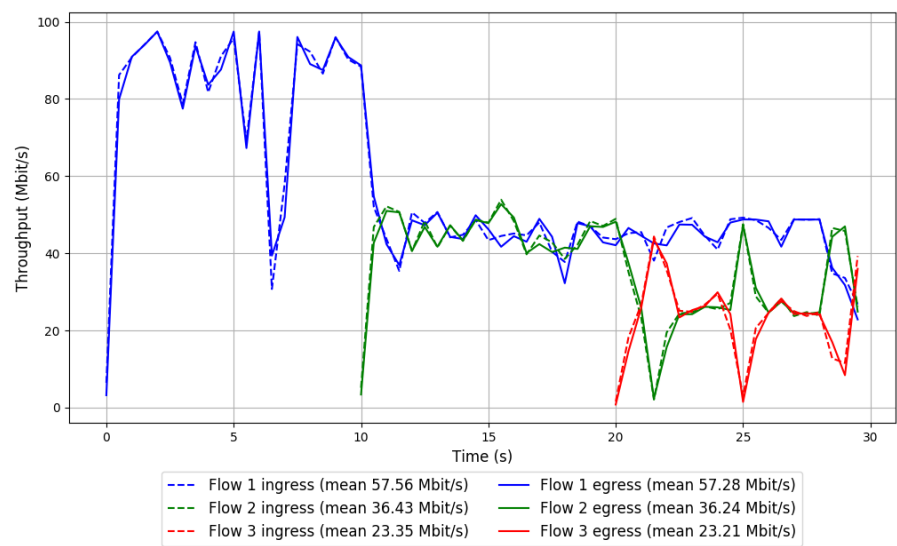


Run 3: Statistics of Verus

Start at: 2018-04-17 13:57:27  
End at: 2018-04-17 13:57:57  
Local clock offset: 3.5 ms  
Remote clock offset: -1.974 ms

# Below is generated by plot.py at 2018-04-17 21:57:35  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 89.01 Mbit/s  
95th percentile per-packet one-way delay: 81.965 ms  
Loss rate: 0.90%  
-- Flow 1:  
Average throughput: 57.28 Mbit/s  
95th percentile per-packet one-way delay: 66.678 ms  
Loss rate: 0.75%  
-- Flow 2:  
Average throughput: 36.24 Mbit/s  
95th percentile per-packet one-way delay: 83.562 ms  
Loss rate: 0.99%  
-- Flow 3:  
Average throughput: 23.21 Mbit/s  
95th percentile per-packet one-way delay: 88.575 ms  
Loss rate: 1.75%

Run 3: Report of Verus — Data Link

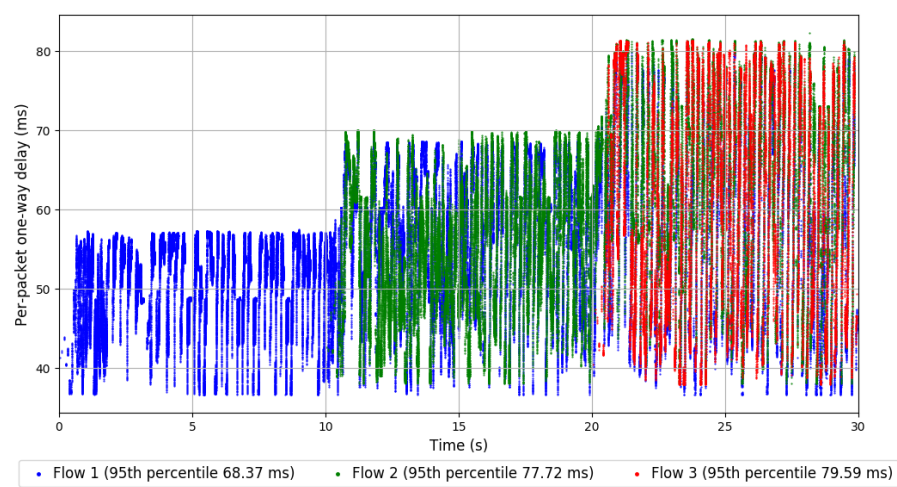
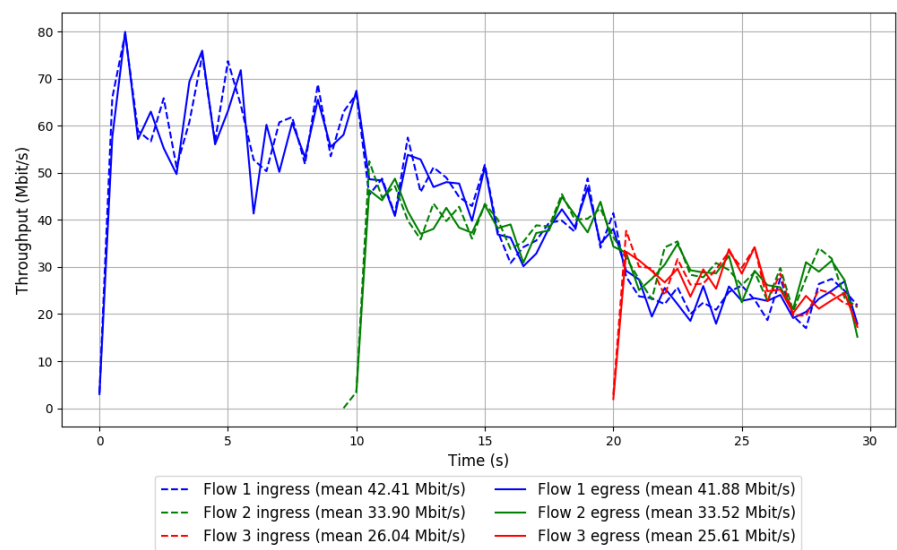


Run 4: Statistics of Verus

Start at: 2018-04-17 14:22:27  
End at: 2018-04-17 14:22:57  
Local clock offset: 10.794 ms  
Remote clock offset: -0.883 ms

# Below is generated by plot.py at 2018-04-17 21:57:35  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 72.65 Mbit/s  
95th percentile per-packet one-way delay: 76.347 ms  
Loss rate: 1.62%  
-- Flow 1:  
Average throughput: 41.88 Mbit/s  
95th percentile per-packet one-way delay: 68.370 ms  
Loss rate: 1.48%  
-- Flow 2:  
Average throughput: 33.52 Mbit/s  
95th percentile per-packet one-way delay: 77.715 ms  
Loss rate: 1.56%  
-- Flow 3:  
Average throughput: 25.61 Mbit/s  
95th percentile per-packet one-way delay: 79.588 ms  
Loss rate: 2.41%

Run 4: Report of Verus — Data Link



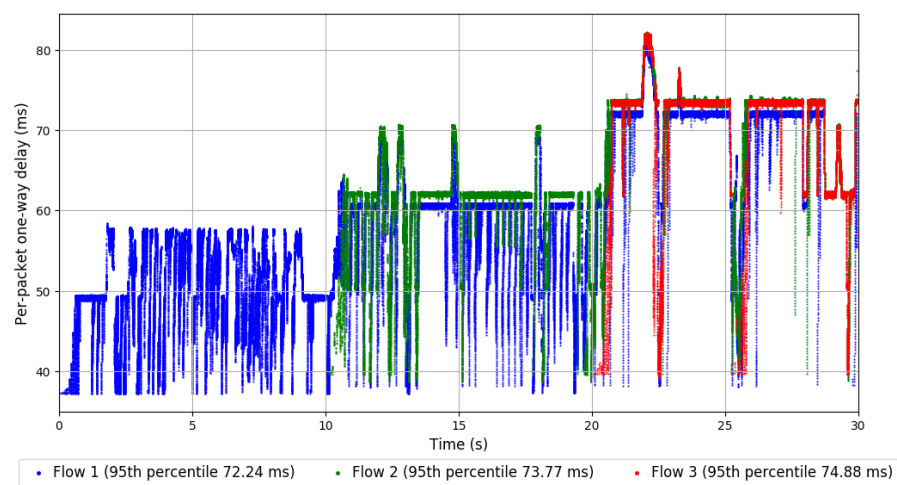
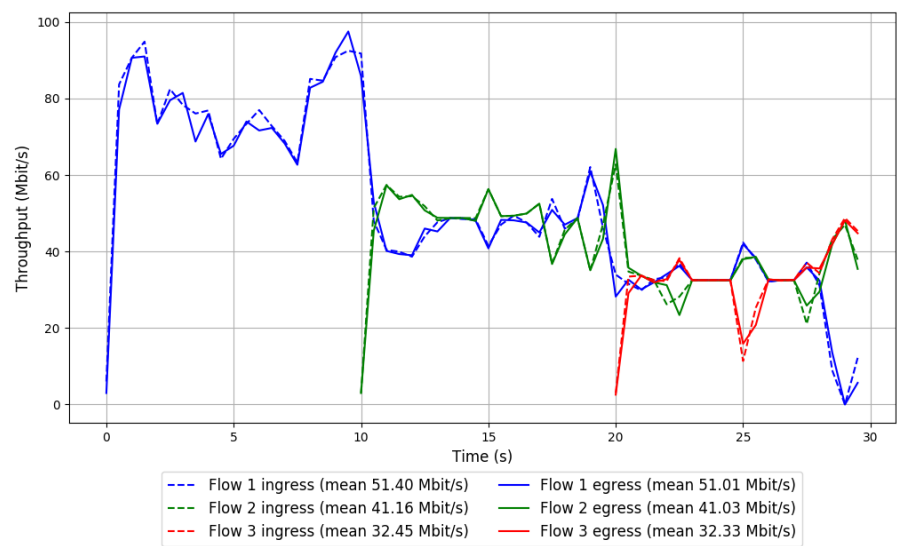


Run 5: Statistics of Verus

Start at: 2018-04-17 14:51:41  
End at: 2018-04-17 14:52:11  
Local clock offset: 0.92 ms  
Remote clock offset: -0.441 ms

# Below is generated by plot.py at 2018-04-17 21:57:35  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 88.98 Mbit/s  
95th percentile per-packet one-way delay: 73.713 ms  
Loss rate: 0.89%  
-- Flow 1:  
Average throughput: 51.01 Mbit/s  
95th percentile per-packet one-way delay: 72.241 ms  
Loss rate: 0.97%  
-- Flow 2:  
Average throughput: 41.03 Mbit/s  
95th percentile per-packet one-way delay: 73.773 ms  
Loss rate: 0.62%  
-- Flow 3:  
Average throughput: 32.33 Mbit/s  
95th percentile per-packet one-way delay: 74.877 ms  
Loss rate: 1.21%

Run 5: Report of Verus — Data Link

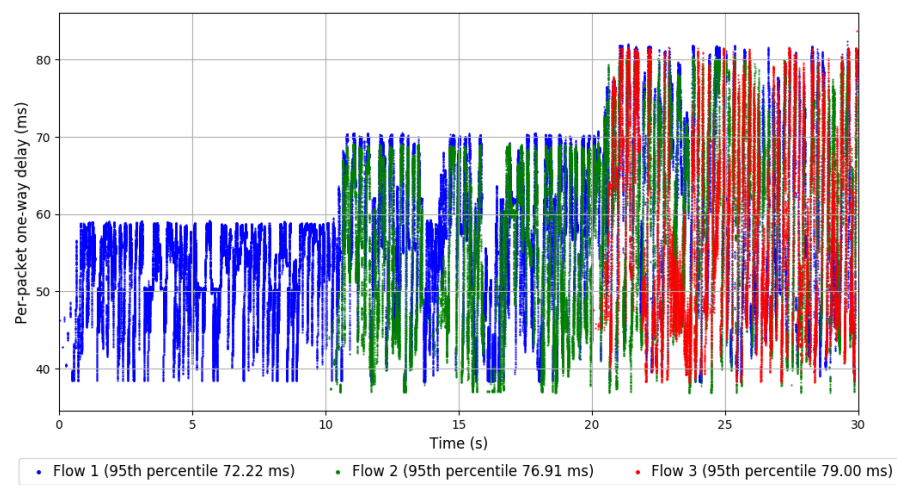
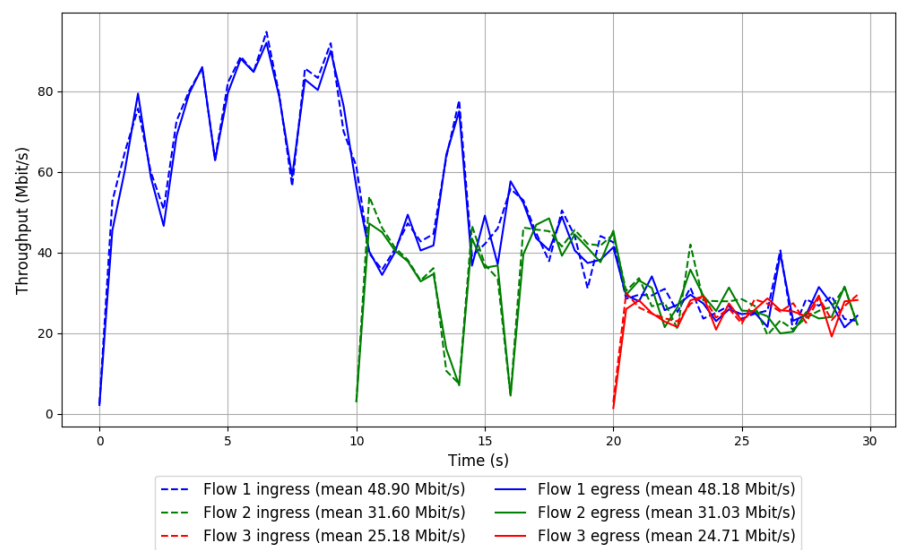


Run 6: Statistics of Verus

Start at: 2018-04-17 15:19:11  
End at: 2018-04-17 15:19:41  
Local clock offset: -1.435 ms  
Remote clock offset: -3.694 ms

# Below is generated by plot.py at 2018-04-17 21:57:35  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 76.98 Mbit/s  
95th percentile per-packet one-way delay: 75.909 ms  
Loss rate: 1.72%  
-- Flow 1:  
Average throughput: 48.18 Mbit/s  
95th percentile per-packet one-way delay: 72.223 ms  
Loss rate: 1.57%  
-- Flow 2:  
Average throughput: 31.03 Mbit/s  
95th percentile per-packet one-way delay: 76.909 ms  
Loss rate: 1.90%  
-- Flow 3:  
Average throughput: 24.71 Mbit/s  
95th percentile per-packet one-way delay: 78.997 ms  
Loss rate: 2.18%

Run 6: Report of Verus — Data Link

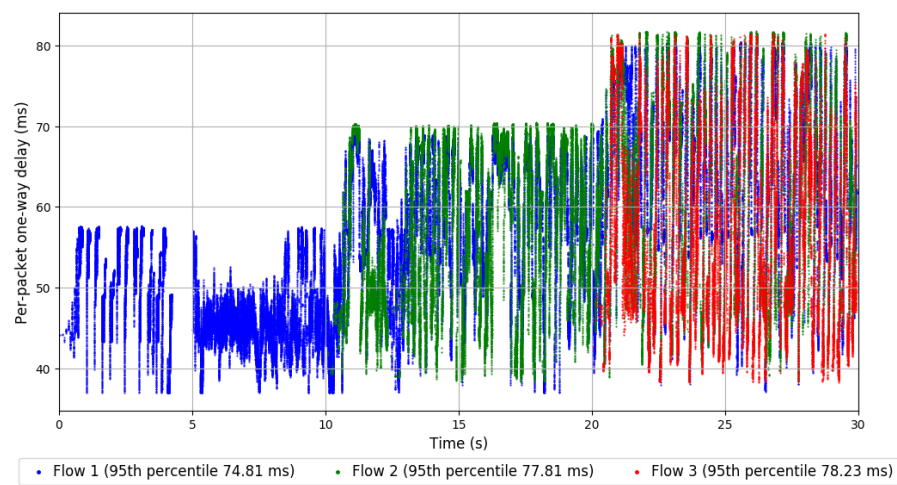
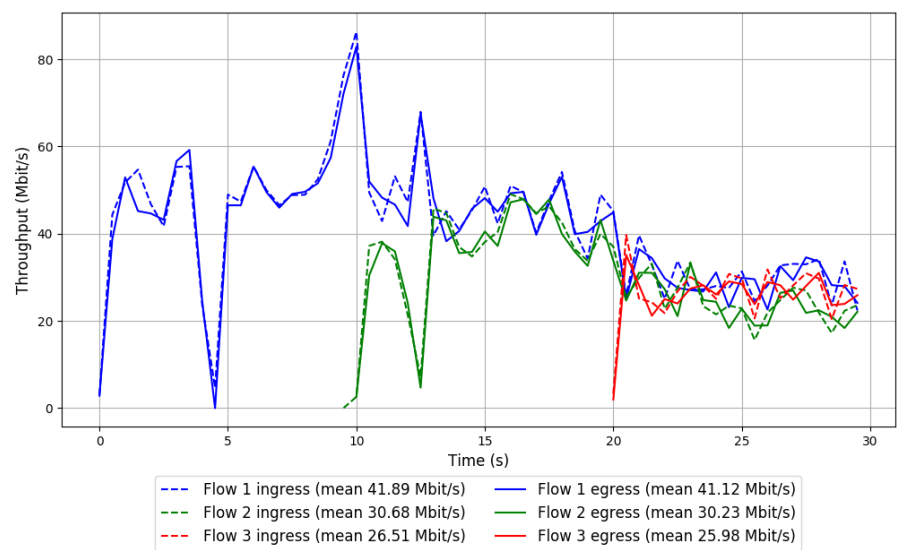


Run 7: Statistics of Verus

Start at: 2018-04-17 15:46:36  
End at: 2018-04-17 15:47:06  
Local clock offset: -1.362 ms  
Remote clock offset: -7.983 ms

# Below is generated by plot.py at 2018-04-17 21:58:03  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 69.78 Mbit/s  
95th percentile per-packet one-way delay: 76.604 ms  
Loss rate: 2.01%  
-- Flow 1:  
Average throughput: 41.12 Mbit/s  
95th percentile per-packet one-way delay: 74.809 ms  
Loss rate: 1.87%  
-- Flow 2:  
Average throughput: 30.23 Mbit/s  
95th percentile per-packet one-way delay: 77.810 ms  
Loss rate: 2.00%  
-- Flow 3:  
Average throughput: 25.98 Mbit/s  
95th percentile per-packet one-way delay: 78.227 ms  
Loss rate: 2.70%

Run 7: Report of Verus — Data Link

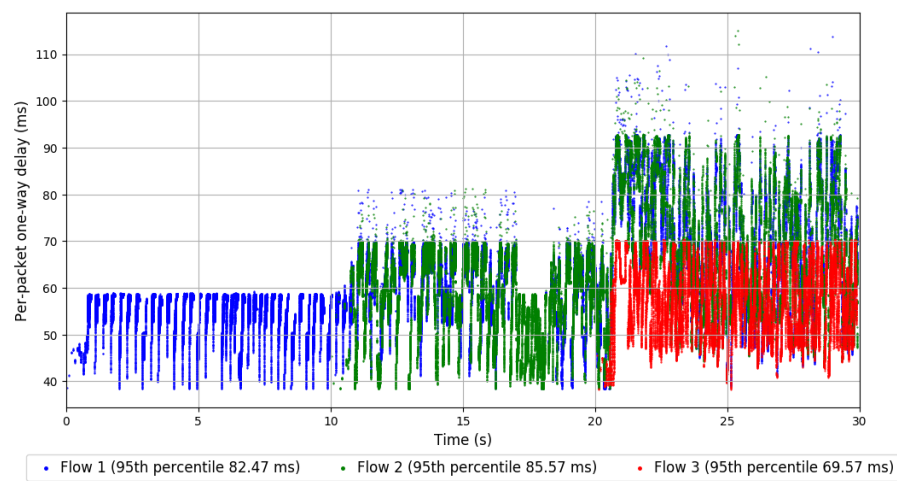
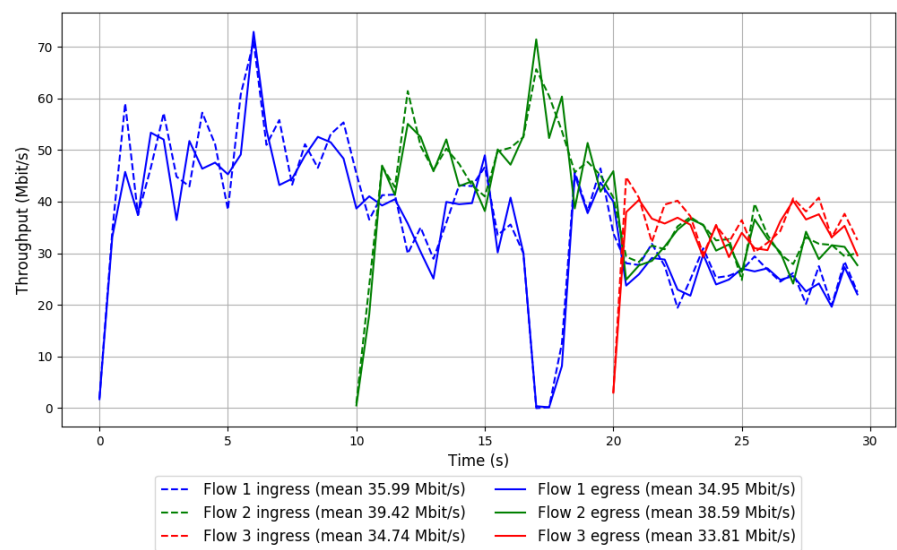


Run 8: Statistics of Verus

Start at: 2018-04-17 16:15:48  
End at: 2018-04-17 16:16:18  
Local clock offset: -0.486 ms  
Remote clock offset: -6.734 ms

# Below is generated by plot.py at 2018-04-17 21:58:19  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 71.72 Mbit/s  
95th percentile per-packet one-way delay: 82.619 ms  
Loss rate: 2.94%  
-- Flow 1:  
Average throughput: 34.95 Mbit/s  
95th percentile per-packet one-way delay: 82.473 ms  
Loss rate: 3.12%  
-- Flow 2:  
Average throughput: 38.59 Mbit/s  
95th percentile per-packet one-way delay: 85.573 ms  
Loss rate: 2.31%  
-- Flow 3:  
Average throughput: 33.81 Mbit/s  
95th percentile per-packet one-way delay: 69.574 ms  
Loss rate: 3.81%

Run 8: Report of Verus — Data Link



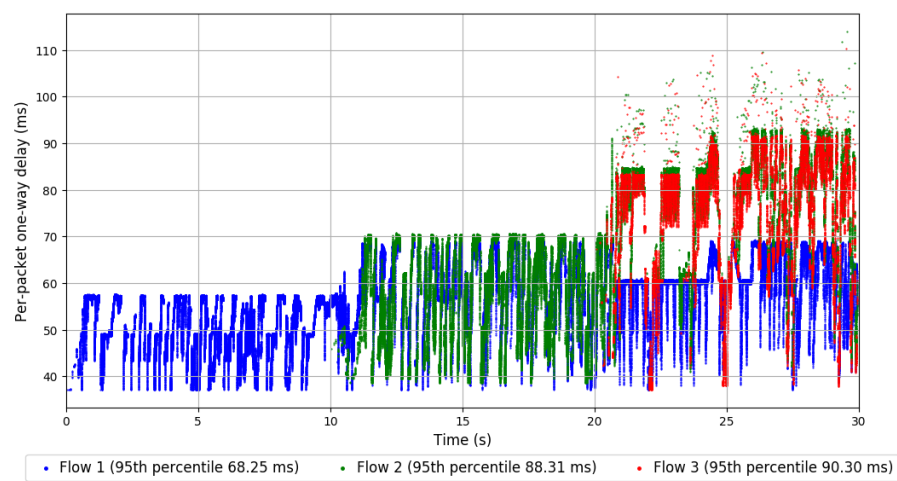
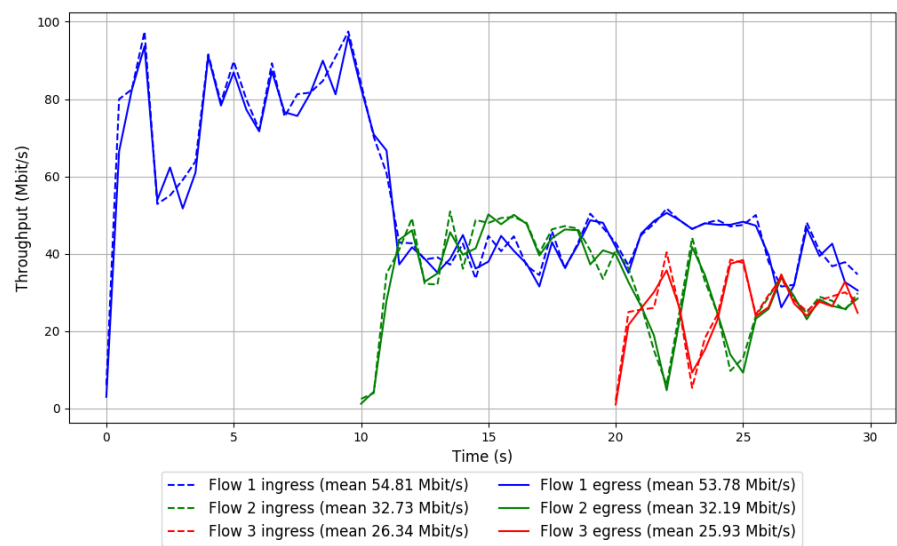


Run 9: Statistics of Verus

Start at: 2018-04-17 16:41:39  
End at: 2018-04-17 16:42:09  
Local clock offset: -0.103 ms  
Remote clock offset: -2.111 ms

# Below is generated by plot.py at 2018-04-17 21:58:29  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 83.72 Mbit/s  
95th percentile per-packet one-way delay: 83.758 ms  
Loss rate: 2.13%  
-- Flow 1:  
Average throughput: 53.78 Mbit/s  
95th percentile per-packet one-way delay: 68.255 ms  
Loss rate: 2.10%  
-- Flow 2:  
Average throughput: 32.19 Mbit/s  
95th percentile per-packet one-way delay: 88.315 ms  
Loss rate: 2.08%  
-- Flow 3:  
Average throughput: 25.93 Mbit/s  
95th percentile per-packet one-way delay: 90.303 ms  
Loss rate: 2.47%

Run 9: Report of Verus — Data Link

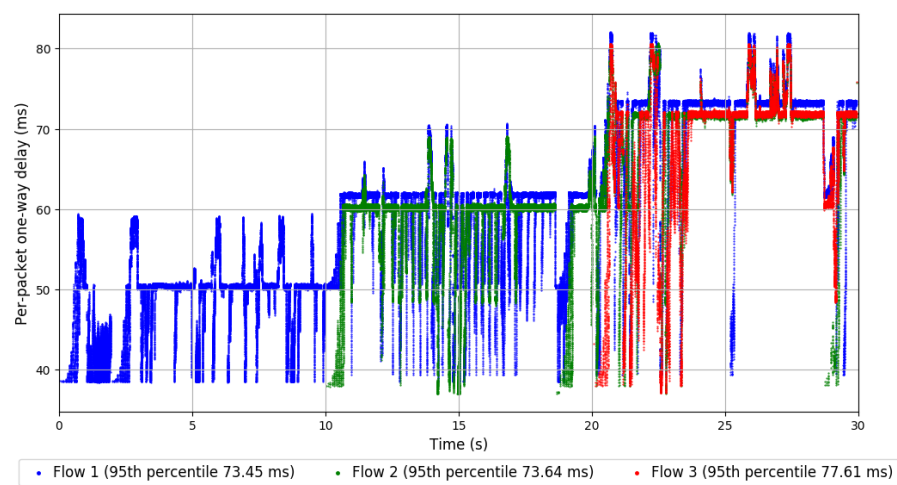
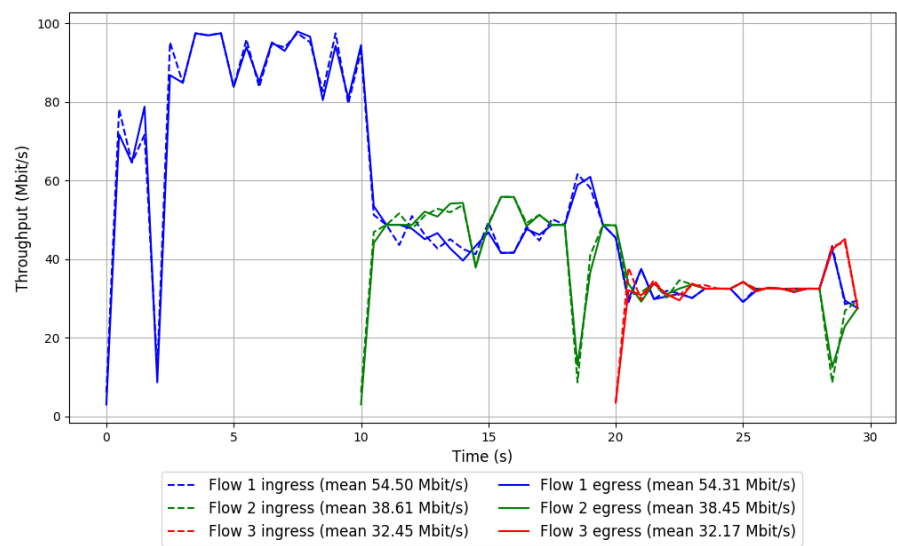


Run 10: Statistics of Verus

Start at: 2018-04-17 17:07:06  
End at: 2018-04-17 17:07:36  
Local clock offset: 0.855 ms  
Remote clock offset: -2.583 ms

# Below is generated by plot.py at 2018-04-17 21:58:34  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 90.50 Mbit/s  
95th percentile per-packet one-way delay: 73.484 ms  
Loss rate: 0.71%  
-- Flow 1:  
Average throughput: 54.31 Mbit/s  
95th percentile per-packet one-way delay: 73.446 ms  
Loss rate: 0.59%  
-- Flow 2:  
Average throughput: 38.45 Mbit/s  
95th percentile per-packet one-way delay: 73.638 ms  
Loss rate: 0.74%  
-- Flow 3:  
Average throughput: 32.17 Mbit/s  
95th percentile per-packet one-way delay: 77.607 ms  
Loss rate: 1.25%

Run 10: Report of Verus — Data Link

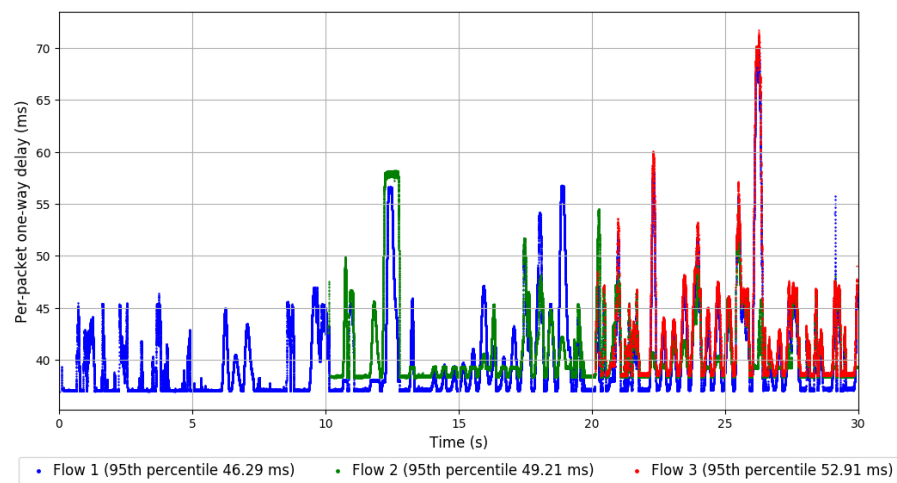
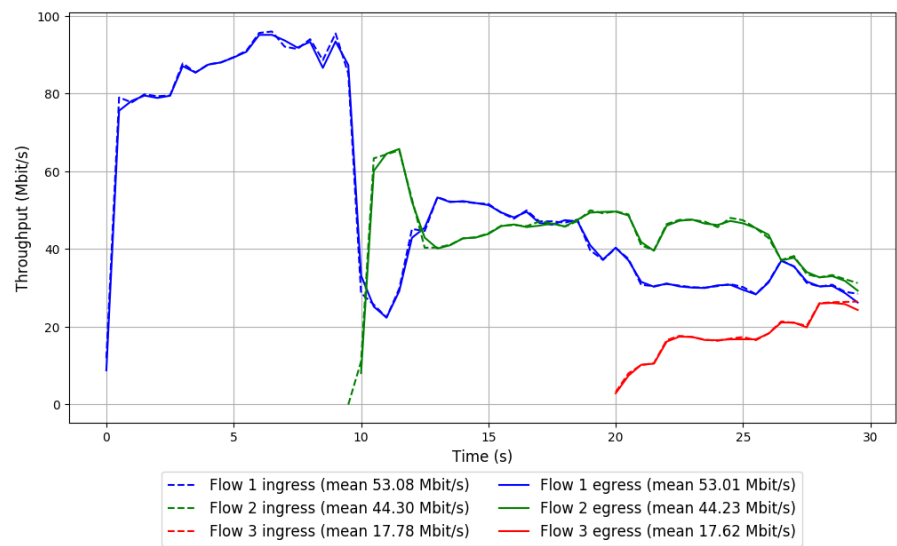


Run 1: Statistics of Copa

Start at: 2018-04-17 13:05:25  
End at: 2018-04-17 13:05:55  
Local clock offset: 0.265 ms  
Remote clock offset: -2.159 ms

# Below is generated by plot.py at 2018-04-17 21:59:47  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 88.26 Mbit/s  
95th percentile per-packet one-way delay: 47.346 ms  
Loss rate: 0.49%  
-- Flow 1:  
Average throughput: 53.01 Mbit/s  
95th percentile per-packet one-way delay: 46.294 ms  
Loss rate: 0.36%  
-- Flow 2:  
Average throughput: 44.23 Mbit/s  
95th percentile per-packet one-way delay: 49.213 ms  
Loss rate: 0.51%  
-- Flow 3:  
Average throughput: 17.62 Mbit/s  
95th percentile per-packet one-way delay: 52.911 ms  
Loss rate: 1.59%

Run 1: Report of Copa — Data Link

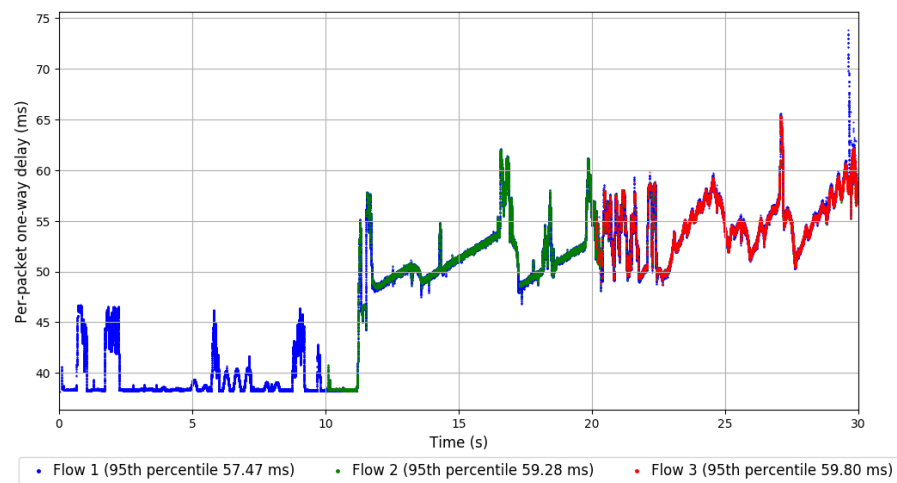
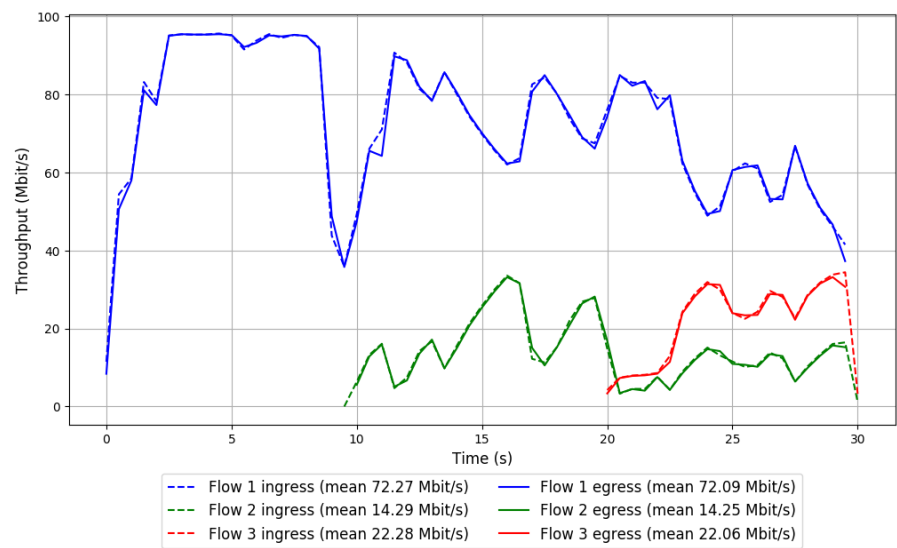


Run 2: Statistics of Copa

Start at: 2018-04-17 13:29:28  
End at: 2018-04-17 13:29:58  
Local clock offset: 1.353 ms  
Remote clock offset: -1.691 ms

# Below is generated by plot.py at 2018-04-17 21:59:51  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 88.85 Mbit/s  
95th percentile per-packet one-way delay: 58.071 ms  
Loss rate: 0.76%  
-- Flow 1:  
Average throughput: 72.09 Mbit/s  
95th percentile per-packet one-way delay: 57.472 ms  
Loss rate: 0.52%  
-- Flow 2:  
Average throughput: 14.25 Mbit/s  
95th percentile per-packet one-way delay: 59.278 ms  
Loss rate: 1.05%  
-- Flow 3:  
Average throughput: 22.06 Mbit/s  
95th percentile per-packet one-way delay: 59.801 ms  
Loss rate: 2.68%

Run 2: Report of Copa — Data Link



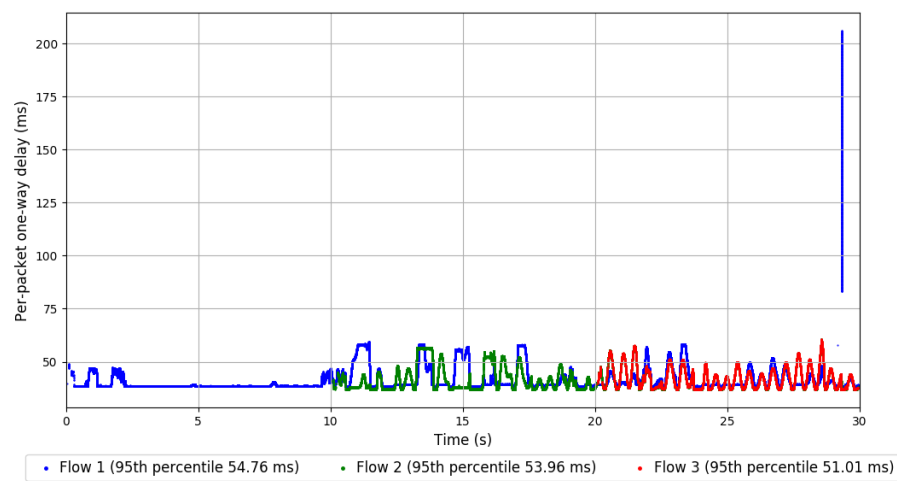
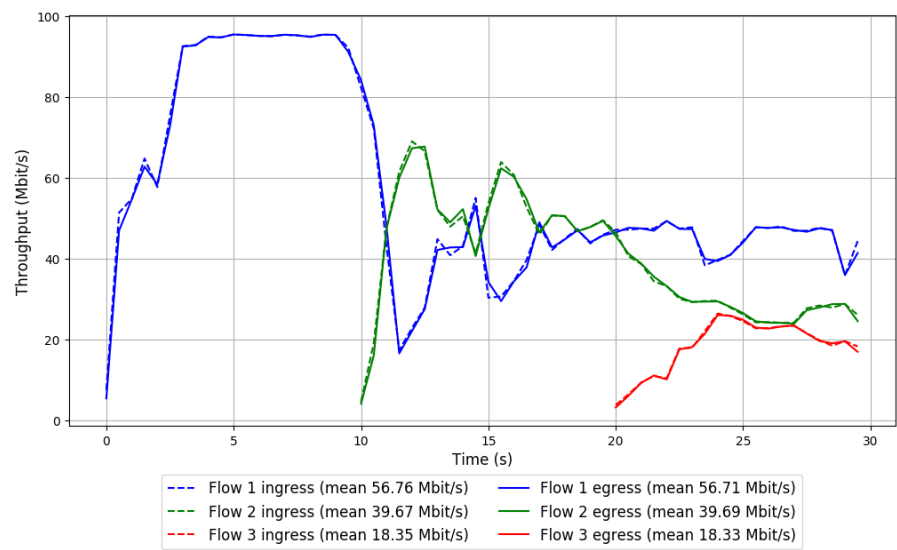


Run 3: Statistics of Copa

Start at: 2018-04-17 13:53:17  
End at: 2018-04-17 13:53:47  
Local clock offset: 3.402 ms  
Remote clock offset: -2.506 ms

# Below is generated by plot.py at 2018-04-17 21:59:51  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 89.19 Mbit/s  
95th percentile per-packet one-way delay: 54.070 ms  
Loss rate: 0.35%  
-- Flow 1:  
Average throughput: 56.71 Mbit/s  
95th percentile per-packet one-way delay: 54.764 ms  
Loss rate: 0.32%  
-- Flow 2:  
Average throughput: 39.69 Mbit/s  
95th percentile per-packet one-way delay: 53.961 ms  
Loss rate: 0.30%  
-- Flow 3:  
Average throughput: 18.33 Mbit/s  
95th percentile per-packet one-way delay: 51.011 ms  
Loss rate: 0.80%

Run 3: Report of Copa — Data Link

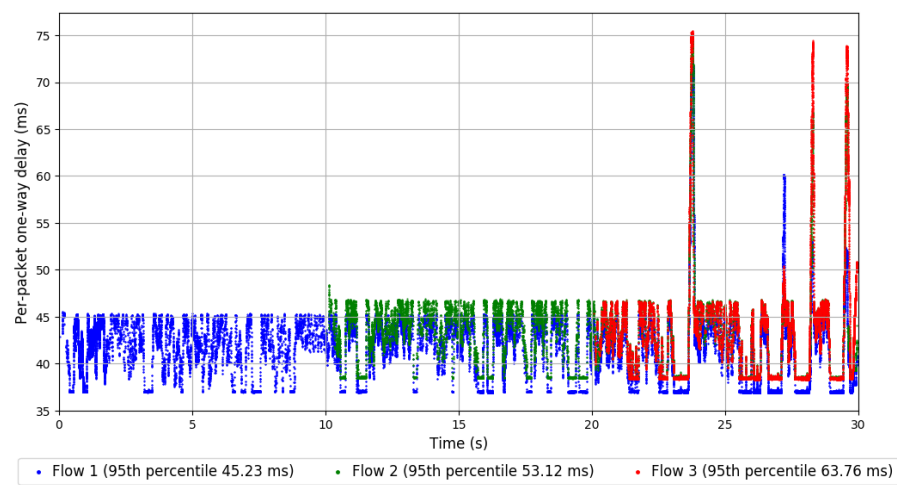
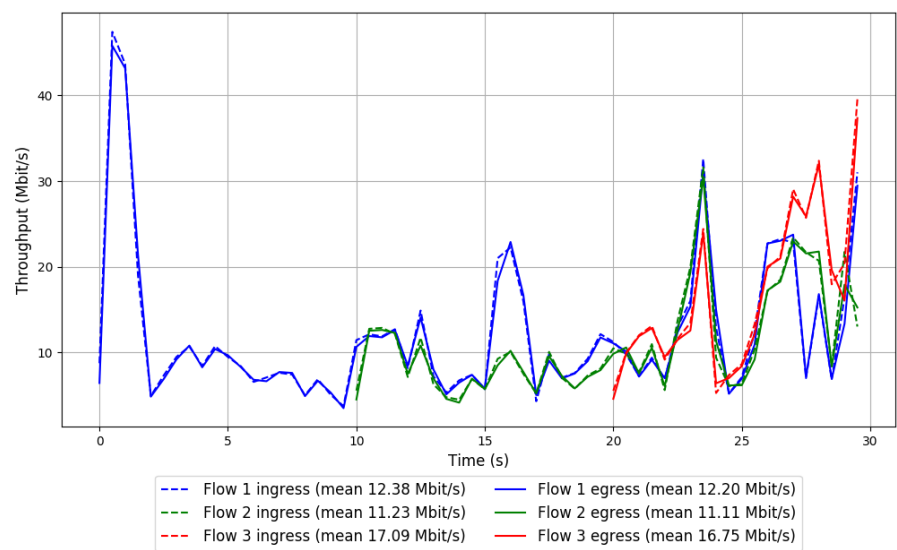


Run 4: Statistics of Copa

Start at: 2018-04-17 14:17:59  
End at: 2018-04-17 14:18:29  
Local clock offset: 10.03 ms  
Remote clock offset: -1.489 ms

# Below is generated by plot.py at 2018-04-17 21:59:51  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 25.12 Mbit/s  
95th percentile per-packet one-way delay: 51.457 ms  
Loss rate: 1.84%  
-- Flow 1:  
Average throughput: 12.20 Mbit/s  
95th percentile per-packet one-way delay: 45.234 ms  
Loss rate: 1.71%  
-- Flow 2:  
Average throughput: 11.11 Mbit/s  
95th percentile per-packet one-way delay: 53.117 ms  
Loss rate: 1.39%  
-- Flow 3:  
Average throughput: 16.75 Mbit/s  
95th percentile per-packet one-way delay: 63.756 ms  
Loss rate: 2.72%

Run 4: Report of Copa — Data Link

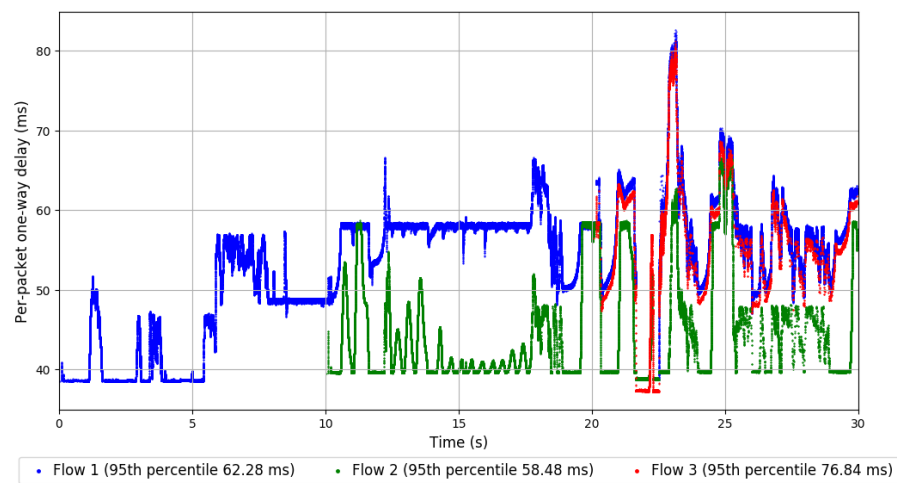
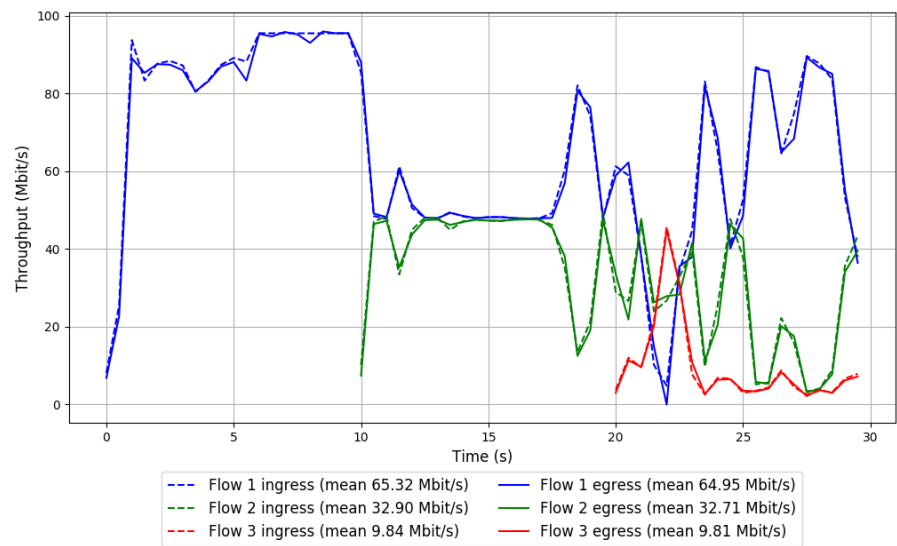


Run 5: Statistics of Copa

Start at: 2018-04-17 14:47:14  
End at: 2018-04-17 14:47:44  
Local clock offset: 2.095 ms  
Remote clock offset: -0.509 ms

```
# Below is generated by plot.py at 2018-04-17 22:00:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 89.95 Mbit/s
95th percentile per-packet one-way delay: 62.164 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 64.95 Mbit/s
95th percentile per-packet one-way delay: 62.278 ms
Loss rate: 0.82%
-- Flow 2:
Average throughput: 32.71 Mbit/s
95th percentile per-packet one-way delay: 58.480 ms
Loss rate: 0.91%
-- Flow 3:
Average throughput: 9.81 Mbit/s
95th percentile per-packet one-way delay: 76.839 ms
Loss rate: 1.14%
```

Run 5: Report of Copa — Data Link

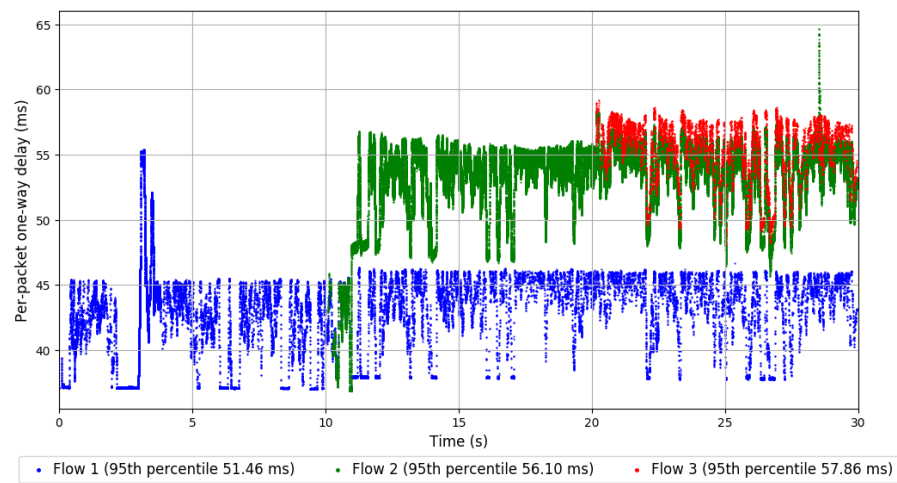
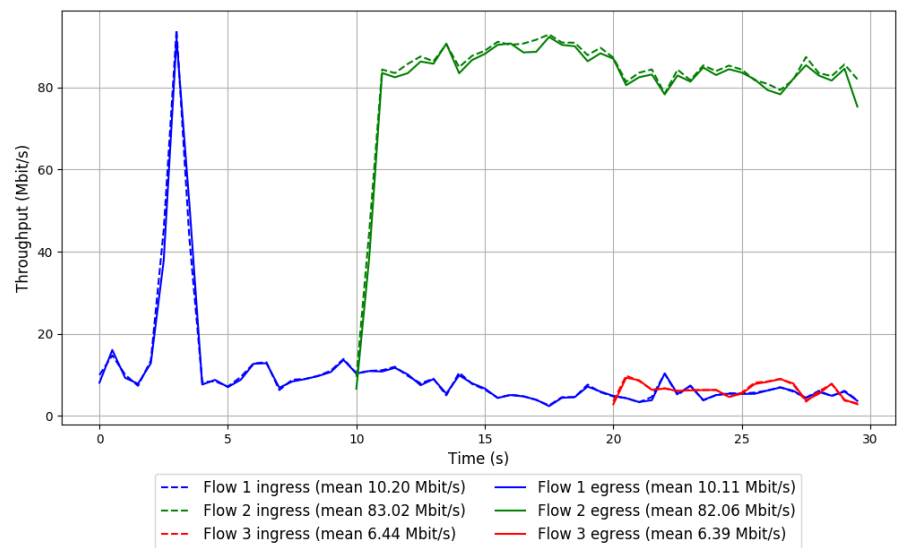


Run 6: Statistics of Copa

Start at: 2018-04-17 15:14:00  
End at: 2018-04-17 15:14:30  
Local clock offset: -1.222 ms  
Remote clock offset: -1.382 ms

```
# Below is generated by plot.py at 2018-04-17 22:00:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 66.82 Mbit/s
95th percentile per-packet one-way delay: 56.162 ms
Loss rate: 1.48%
-- Flow 1:
Average throughput: 10.11 Mbit/s
95th percentile per-packet one-way delay: 51.456 ms
Loss rate: 1.19%
-- Flow 2:
Average throughput: 82.06 Mbit/s
95th percentile per-packet one-way delay: 56.099 ms
Loss rate: 1.53%
-- Flow 3:
Average throughput: 6.39 Mbit/s
95th percentile per-packet one-way delay: 57.864 ms
Loss rate: 1.55%
```

Run 6: Report of Copa — Data Link



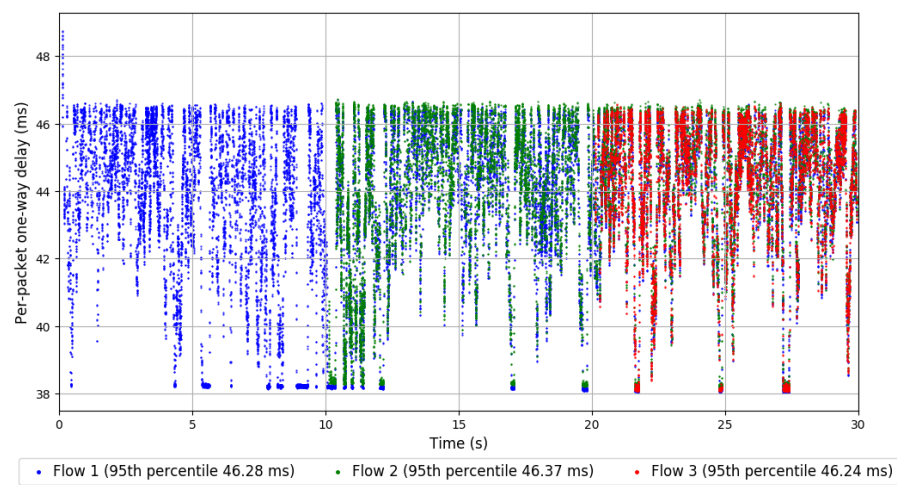
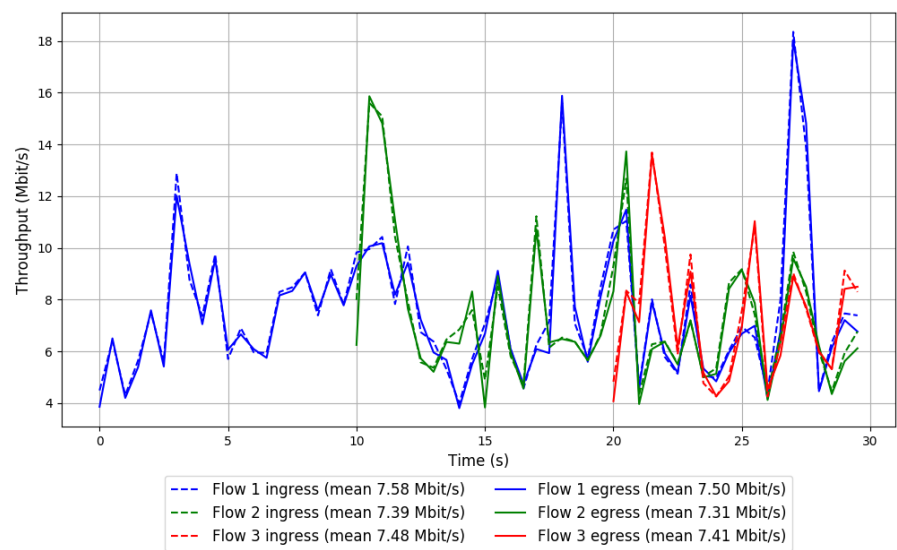


Run 7: Statistics of Copa

Start at: 2018-04-17 15:41:53  
End at: 2018-04-17 15:42:23  
Local clock offset: -2.422 ms  
Remote clock offset: -7.845 ms

```
# Below is generated by plot.py at 2018-04-17 22:00:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 14.80 Mbit/s
95th percentile per-packet one-way delay: 46.300 ms
Loss rate: 1.44%
-- Flow 1:
Average throughput: 7.50 Mbit/s
95th percentile per-packet one-way delay: 46.277 ms
Loss rate: 1.31%
-- Flow 2:
Average throughput: 7.31 Mbit/s
95th percentile per-packet one-way delay: 46.367 ms
Loss rate: 1.51%
-- Flow 3:
Average throughput: 7.41 Mbit/s
95th percentile per-packet one-way delay: 46.239 ms
Loss rate: 1.68%
```

Run 7: Report of Copa — Data Link

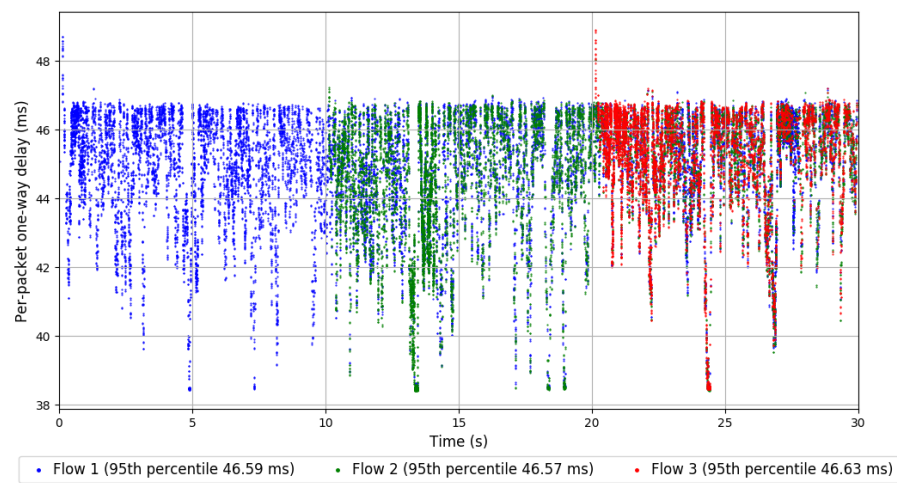
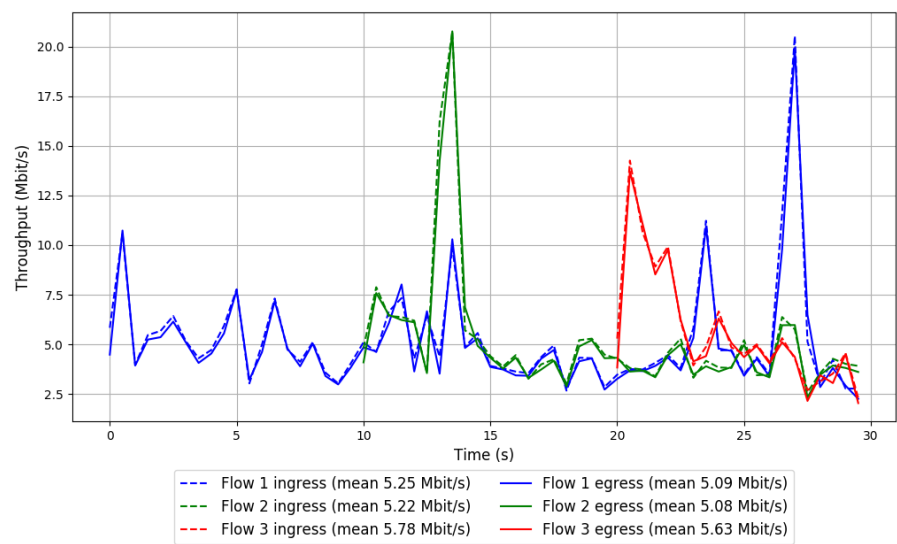


Run 8: Statistics of Copa

Start at: 2018-04-17 16:10:38  
End at: 2018-04-17 16:11:08  
Local clock offset: -0.423 ms  
Remote clock offset: -6.495 ms

```
# Below is generated by plot.py at 2018-04-17 22:00:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 10.33 Mbit/s
95th percentile per-packet one-way delay: 46.594 ms
Loss rate: 3.16%
-- Flow 1:
Average throughput: 5.09 Mbit/s
95th percentile per-packet one-way delay: 46.595 ms
Loss rate: 3.20%
-- Flow 2:
Average throughput: 5.08 Mbit/s
95th percentile per-packet one-way delay: 46.569 ms
Loss rate: 2.97%
-- Flow 3:
Average throughput: 5.63 Mbit/s
95th percentile per-packet one-way delay: 46.633 ms
Loss rate: 3.39%
```

Run 8: Report of Copa — Data Link

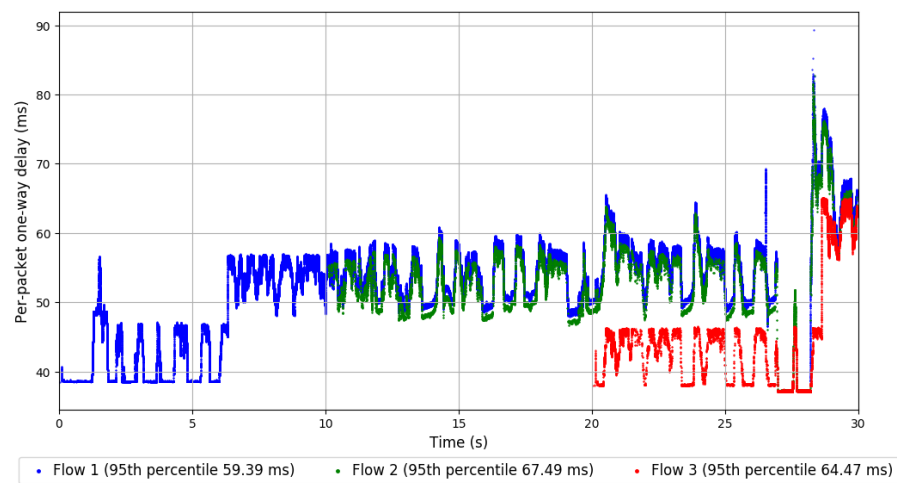
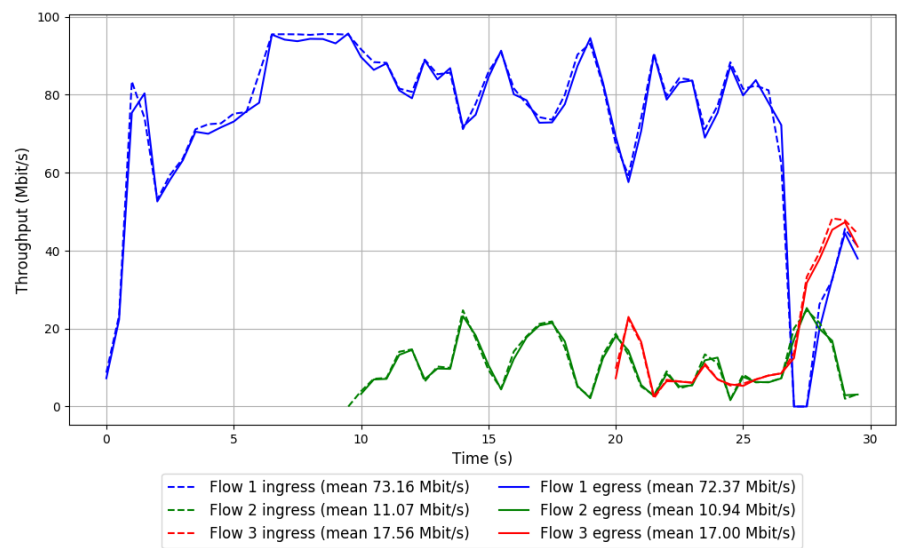


Run 9: Statistics of Copa

Start at: 2018-04-17 16:37:19  
End at: 2018-04-17 16:37:49  
Local clock offset: -0.048 ms  
Remote clock offset: -2.526 ms

# Below is generated by plot.py at 2018-04-17 22:01:01  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 85.27 Mbit/s  
95th percentile per-packet one-way delay: 61.267 ms  
Loss rate: 1.51%  
-- Flow 1:  
Average throughput: 72.37 Mbit/s  
95th percentile per-packet one-way delay: 59.393 ms  
Loss rate: 1.31%  
-- Flow 2:  
Average throughput: 10.94 Mbit/s  
95th percentile per-packet one-way delay: 67.489 ms  
Loss rate: 1.58%  
-- Flow 3:  
Average throughput: 17.00 Mbit/s  
95th percentile per-packet one-way delay: 64.465 ms  
Loss rate: 3.87%

Run 9: Report of Copa — Data Link

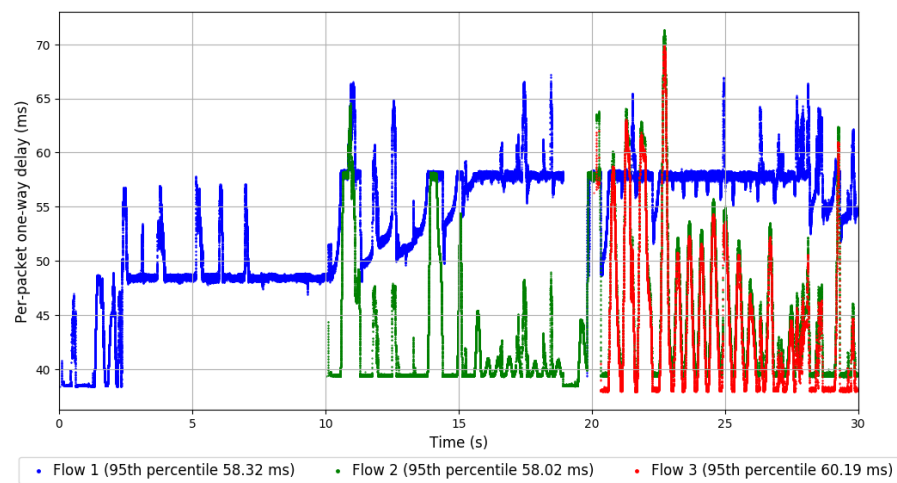
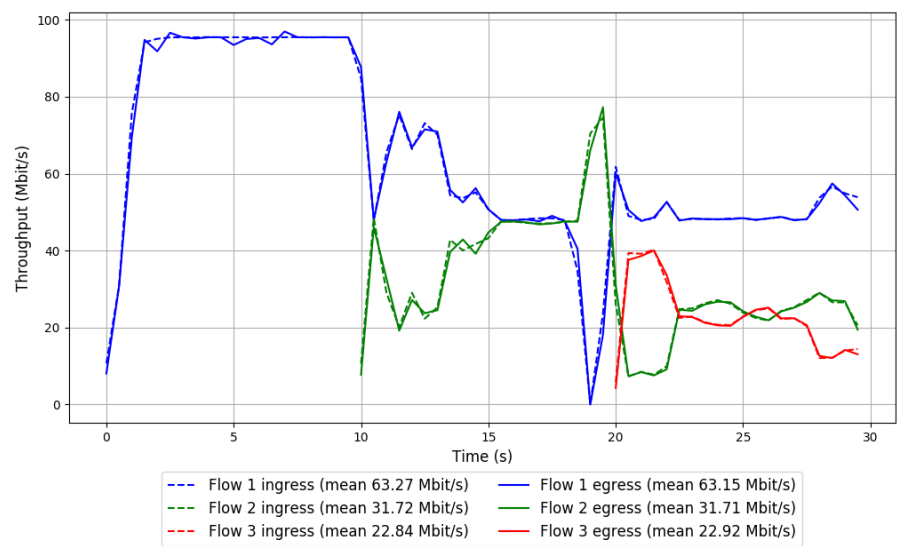


Run 10: Statistics of Copa

Start at: 2018-04-17 17:02:45  
End at: 2018-04-17 17:03:15  
Local clock offset: 0.763 ms  
Remote clock offset: -2.366 ms

# Below is generated by plot.py at 2018-04-17 22:01:22  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 91.82 Mbit/s  
95th percentile per-packet one-way delay: 58.296 ms  
Loss rate: 0.42%  
-- Flow 1:  
Average throughput: 63.15 Mbit/s  
95th percentile per-packet one-way delay: 58.320 ms  
Loss rate: 0.43%  
-- Flow 2:  
Average throughput: 31.71 Mbit/s  
95th percentile per-packet one-way delay: 58.017 ms  
Loss rate: 0.38%  
-- Flow 3:  
Average throughput: 22.92 Mbit/s  
95th percentile per-packet one-way delay: 60.194 ms  
Loss rate: 0.53%

Run 10: Report of Copa — Data Link



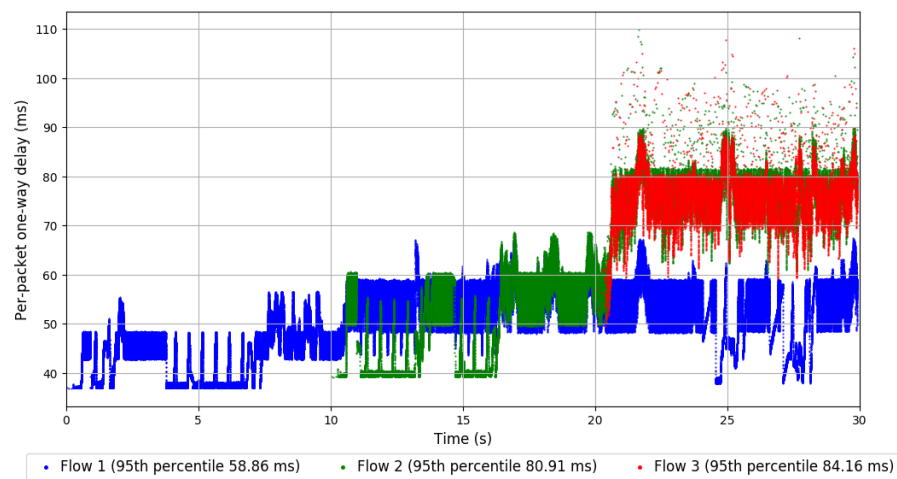
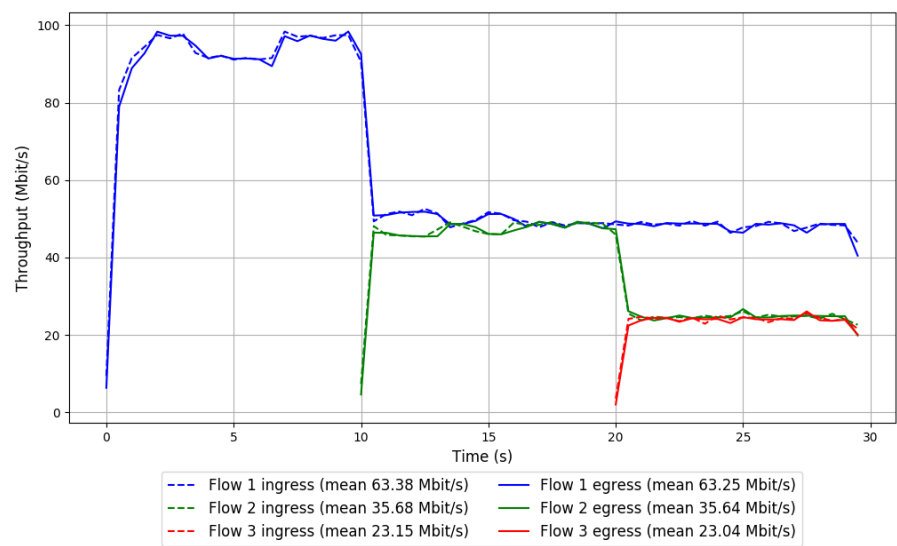


Run 1: Statistics of FillP

Start at: 2018-04-17 13:06:51  
End at: 2018-04-17 13:07:21  
Local clock offset: 0.195 ms  
Remote clock offset: -2.089 ms

# Below is generated by plot.py at 2018-04-17 22:01:22  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 94.54 Mbit/s  
95th percentile per-packet one-way delay: 78.371 ms  
Loss rate: 0.55%  
-- Flow 1:  
Average throughput: 63.25 Mbit/s  
95th percentile per-packet one-way delay: 58.860 ms  
Loss rate: 0.44%  
-- Flow 2:  
Average throughput: 35.64 Mbit/s  
95th percentile per-packet one-way delay: 80.905 ms  
Loss rate: 0.54%  
-- Flow 3:  
Average throughput: 23.04 Mbit/s  
95th percentile per-packet one-way delay: 84.160 ms  
Loss rate: 1.50%

Run 1: Report of FillP — Data Link

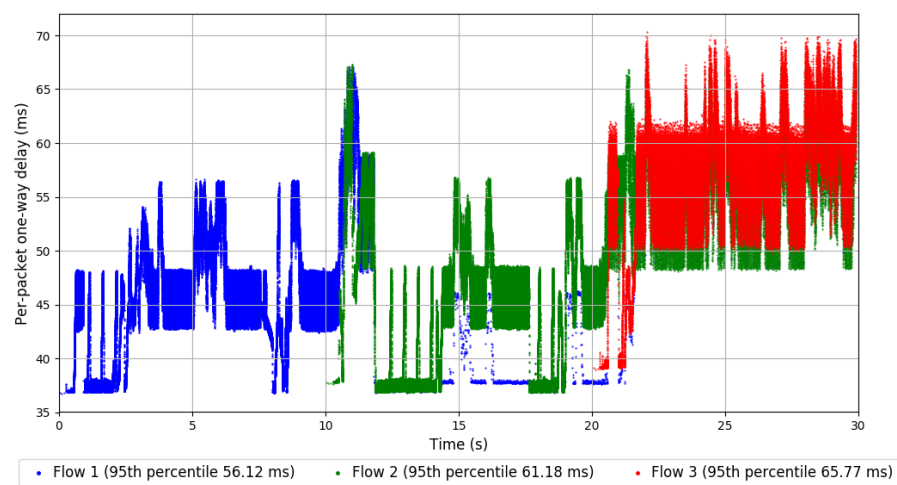
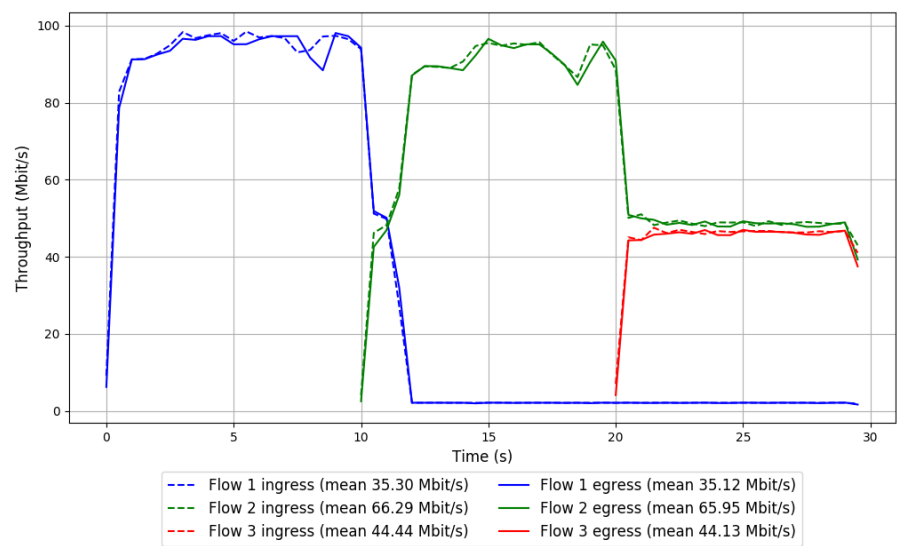


Run 2: Statistics of FillP

Start at: 2018-04-17 13:31:07  
End at: 2018-04-17 13:31:37  
Local clock offset: 1.603 ms  
Remote clock offset: -1.913 ms

# Below is generated by plot.py at 2018-04-17 22:01:23  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.53 Mbit/s  
95th percentile per-packet one-way delay: 61.931 ms  
Loss rate: 0.91%  
-- Flow 1:  
Average throughput: 35.12 Mbit/s  
95th percentile per-packet one-way delay: 56.115 ms  
Loss rate: 0.75%  
-- Flow 2:  
Average throughput: 65.95 Mbit/s  
95th percentile per-packet one-way delay: 61.181 ms  
Loss rate: 0.86%  
-- Flow 3:  
Average throughput: 44.13 Mbit/s  
95th percentile per-packet one-way delay: 65.769 ms  
Loss rate: 1.42%

Run 2: Report of FillP — Data Link

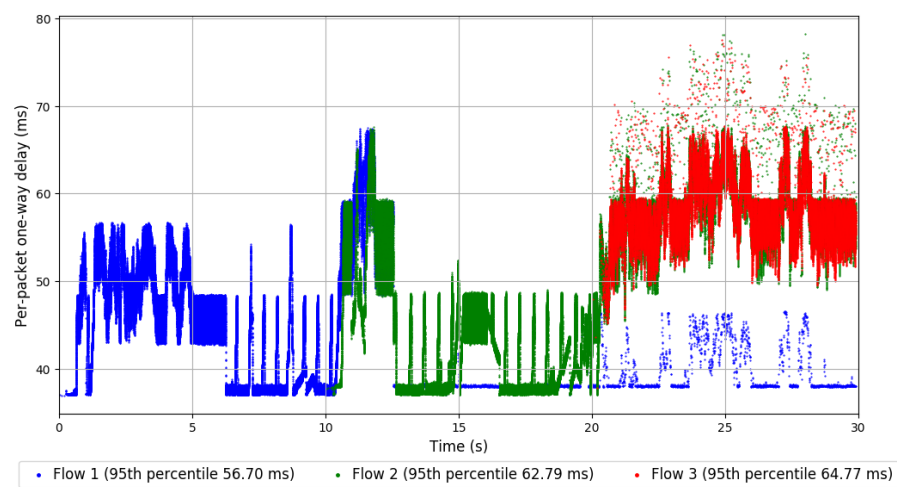
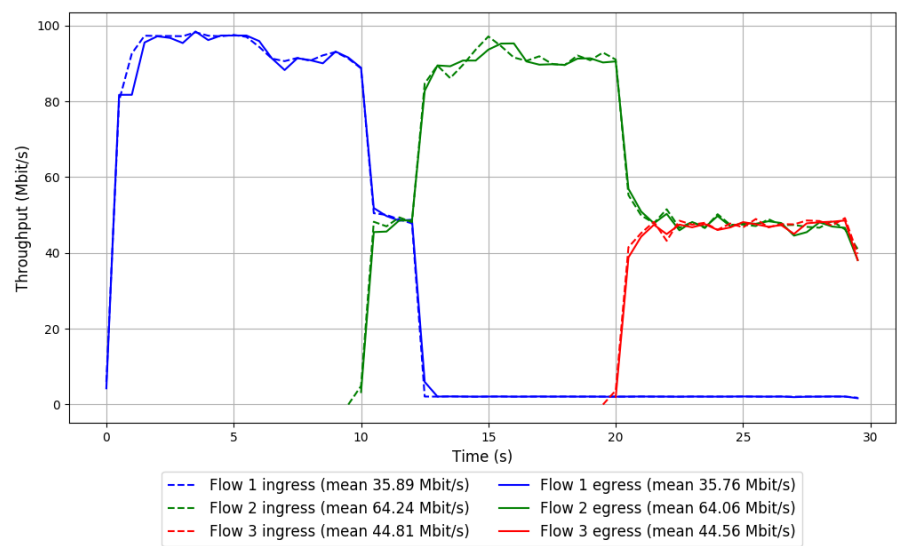


Run 3: Statistics of FillP

Start at: 2018-04-17 13:54:43  
End at: 2018-04-17 13:55:13  
Local clock offset: 3.401 ms  
Remote clock offset: -2.442 ms

# Below is generated by plot.py at 2018-04-17 22:01:25  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.08 Mbit/s  
95th percentile per-packet one-way delay: 62.655 ms  
Loss rate: 0.76%  
-- Flow 1:  
Average throughput: 35.76 Mbit/s  
95th percentile per-packet one-way delay: 56.695 ms  
Loss rate: 0.60%  
-- Flow 2:  
Average throughput: 64.06 Mbit/s  
95th percentile per-packet one-way delay: 62.792 ms  
Loss rate: 0.67%  
-- Flow 3:  
Average throughput: 44.56 Mbit/s  
95th percentile per-packet one-way delay: 64.774 ms  
Loss rate: 1.41%

Run 3: Report of FillP — Data Link

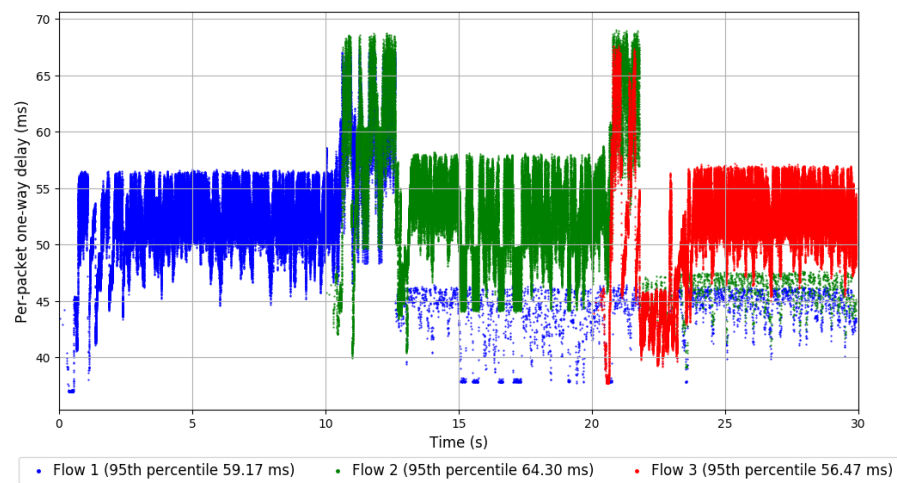
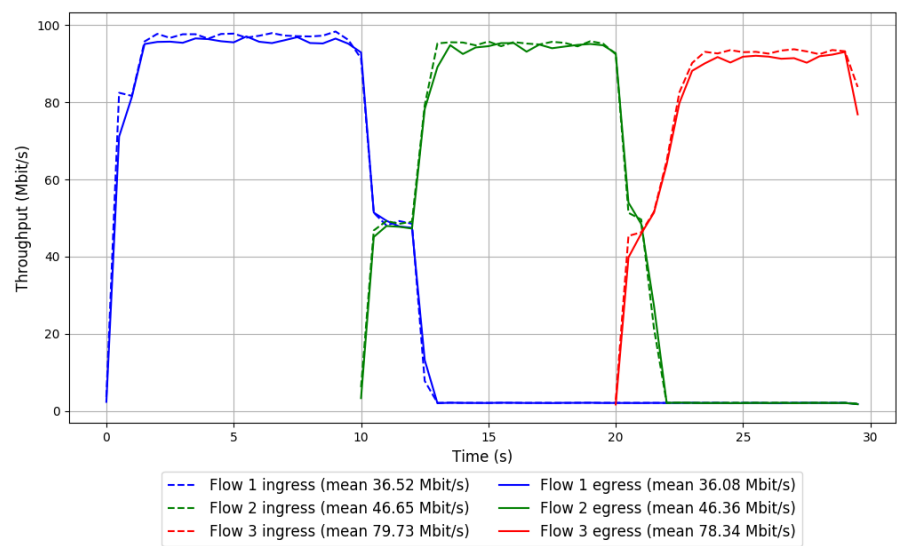


Run 4: Statistics of FillP

Start at: 2018-04-17 14:19:25  
End at: 2018-04-17 14:19:55  
Local clock offset: 10.167 ms  
Remote clock offset: -1.451 ms

# Below is generated by plot.py at 2018-04-17 22:01:27  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 92.76 Mbit/s  
95th percentile per-packet one-way delay: 60.915 ms  
Loss rate: 1.60%  
-- Flow 1:  
Average throughput: 36.08 Mbit/s  
95th percentile per-packet one-way delay: 59.167 ms  
Loss rate: 1.44%  
-- Flow 2:  
Average throughput: 46.36 Mbit/s  
95th percentile per-packet one-way delay: 64.299 ms  
Loss rate: 1.02%  
-- Flow 3:  
Average throughput: 78.34 Mbit/s  
95th percentile per-packet one-way delay: 56.473 ms  
Loss rate: 2.50%

Run 4: Report of FillP — Data Link



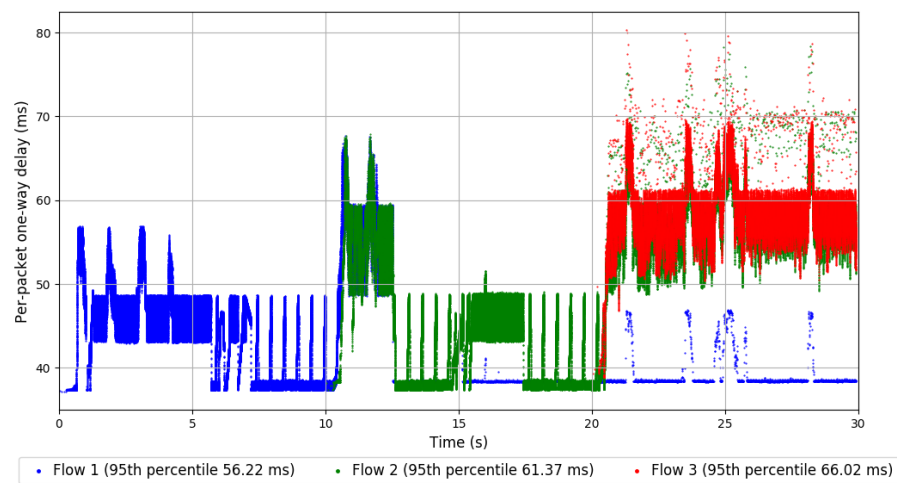
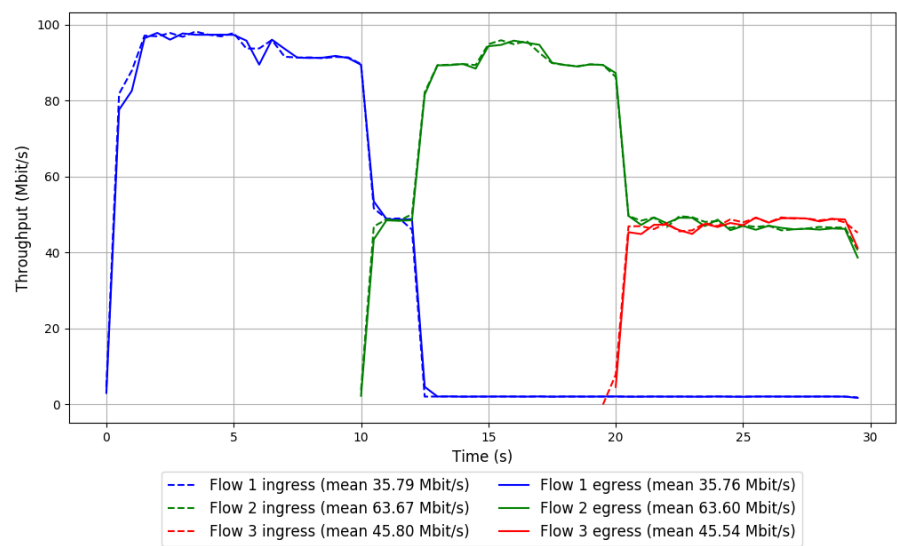


Run 5: Statistics of FillP

Start at: 2018-04-17 14:48:44  
End at: 2018-04-17 14:49:14  
Local clock offset: 1.713 ms  
Remote clock offset: -0.552 ms

# Below is generated by plot.py at 2018-04-17 22:01:44  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.14 Mbit/s  
95th percentile per-packet one-way delay: 61.423 ms  
Loss rate: 0.55%  
-- Flow 1:  
Average throughput: 35.76 Mbit/s  
95th percentile per-packet one-way delay: 56.220 ms  
Loss rate: 0.30%  
-- Flow 2:  
Average throughput: 63.60 Mbit/s  
95th percentile per-packet one-way delay: 61.368 ms  
Loss rate: 0.47%  
-- Flow 3:  
Average throughput: 45.54 Mbit/s  
95th percentile per-packet one-way delay: 66.018 ms  
Loss rate: 1.37%

Run 5: Report of FillP — Data Link

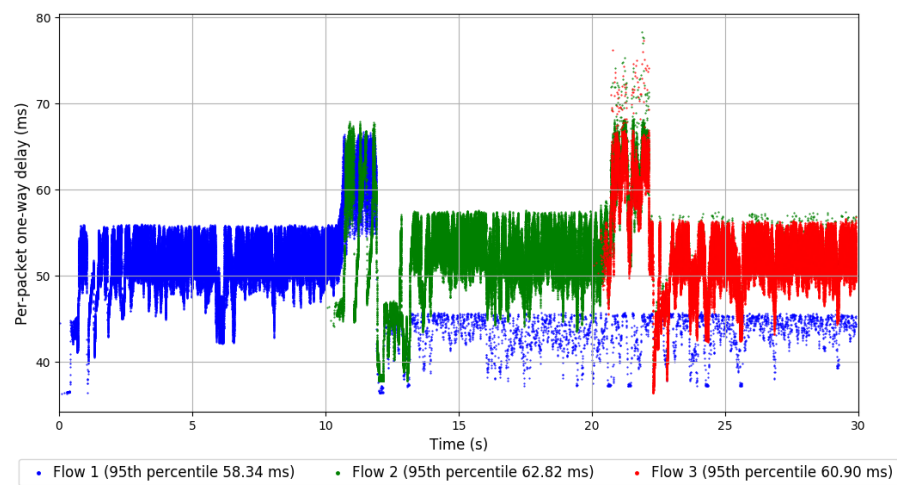
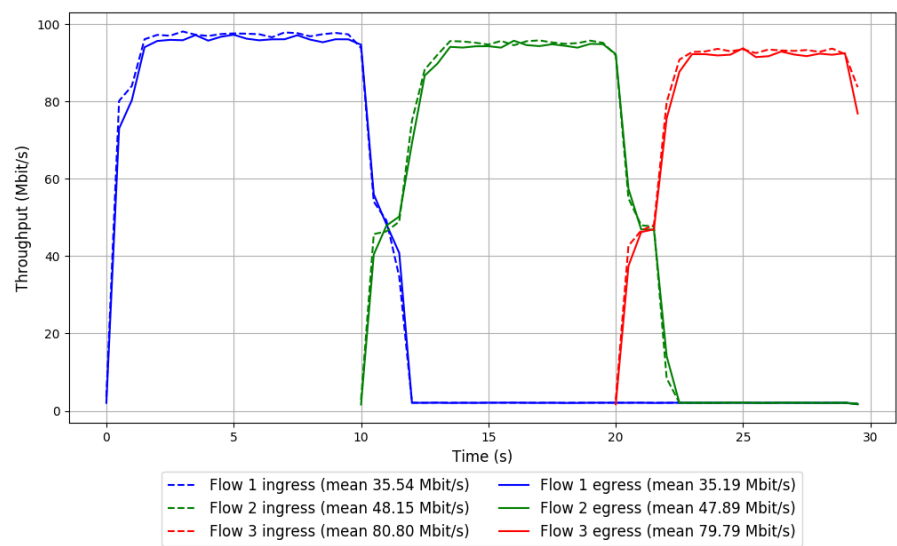


Run 6: Statistics of FillP

Start at: 2018-04-17 15:16:03  
End at: 2018-04-17 15:16:33  
Local clock offset: -1.392 ms  
Remote clock offset: -1.921 ms

# Below is generated by plot.py at 2018-04-17 22:01:56  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.32 Mbit/s  
95th percentile per-packet one-way delay: 61.219 ms  
Loss rate: 1.36%  
-- Flow 1:  
Average throughput: 35.19 Mbit/s  
95th percentile per-packet one-way delay: 58.340 ms  
Loss rate: 1.22%  
-- Flow 2:  
Average throughput: 47.89 Mbit/s  
95th percentile per-packet one-way delay: 62.824 ms  
Loss rate: 0.94%  
-- Flow 3:  
Average throughput: 79.79 Mbit/s  
95th percentile per-packet one-way delay: 60.903 ms  
Loss rate: 2.05%

Run 6: Report of FillP — Data Link

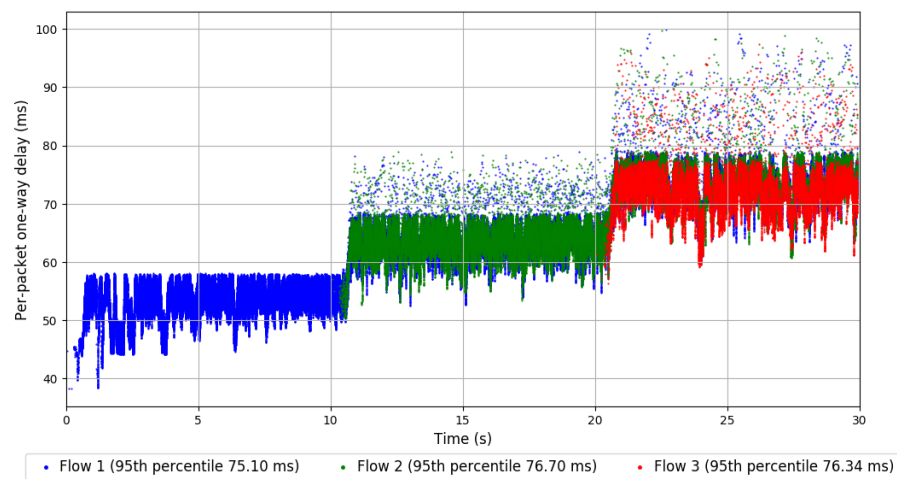
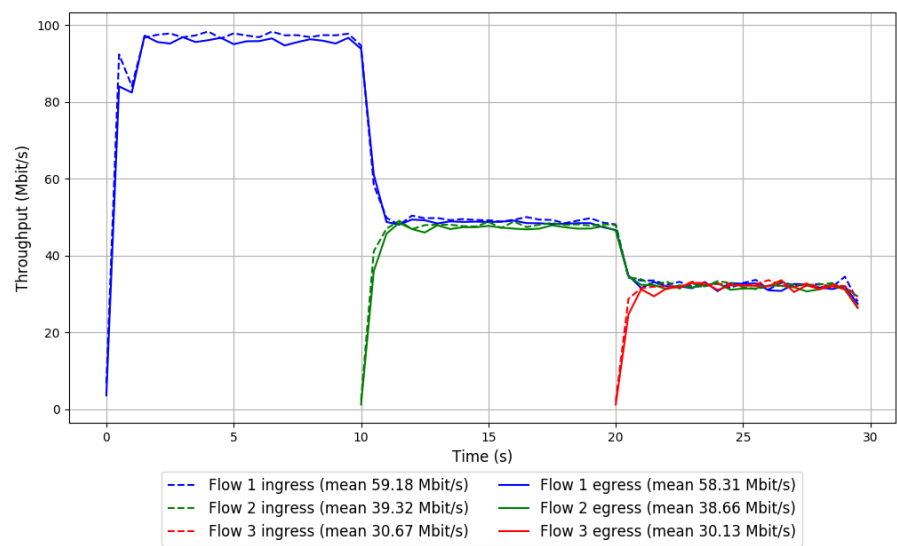


Run 7: Statistics of FillP

Start at: 2018-04-17 15:43:20  
End at: 2018-04-17 15:43:50  
Local clock offset: -1.957 ms  
Remote clock offset: -7.994 ms

# Below is generated by plot.py at 2018-04-17 22:02:11  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.90 Mbit/s  
95th percentile per-packet one-way delay: 75.973 ms  
Loss rate: 1.97%  
-- Flow 1:  
Average throughput: 58.31 Mbit/s  
95th percentile per-packet one-way delay: 75.101 ms  
Loss rate: 1.73%  
-- Flow 2:  
Average throughput: 38.66 Mbit/s  
95th percentile per-packet one-way delay: 76.699 ms  
Loss rate: 2.18%  
-- Flow 3:  
Average throughput: 30.13 Mbit/s  
95th percentile per-packet one-way delay: 76.345 ms  
Loss rate: 2.76%

Run 7: Report of FillP — Data Link

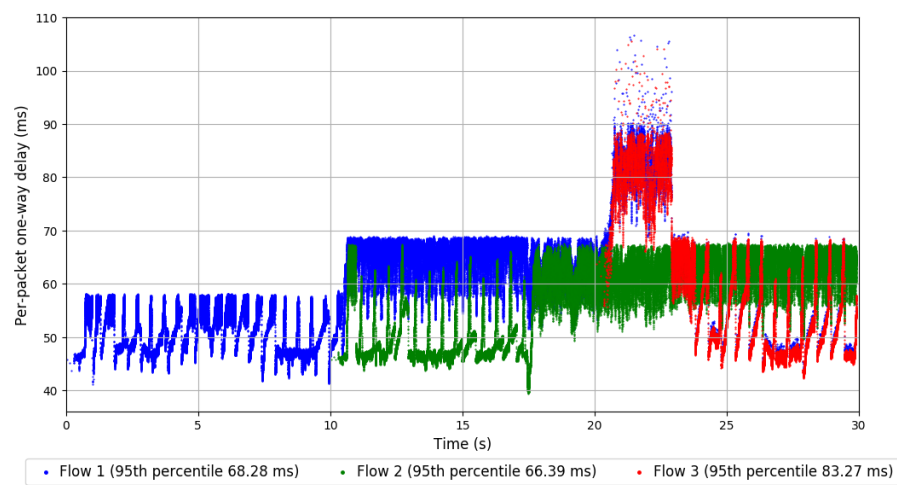
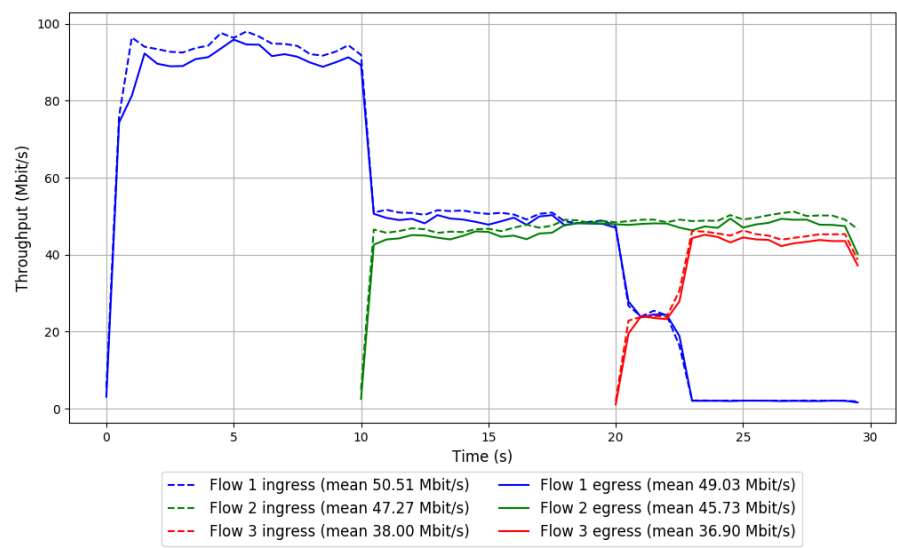


Run 8: Statistics of FillP

Start at: 2018-04-17 16:12:16  
End at: 2018-04-17 16:12:46  
Local clock offset: -0.424 ms  
Remote clock offset: -6.574 ms

# Below is generated by plot.py at 2018-04-17 22:02:37  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 91.56 Mbit/s  
95th percentile per-packet one-way delay: 68.144 ms  
Loss rate: 3.41%  
-- Flow 1:  
Average throughput: 49.03 Mbit/s  
95th percentile per-packet one-way delay: 68.283 ms  
Loss rate: 3.18%  
-- Flow 2:  
Average throughput: 45.73 Mbit/s  
95th percentile per-packet one-way delay: 66.391 ms  
Loss rate: 3.63%  
-- Flow 3:  
Average throughput: 36.90 Mbit/s  
95th percentile per-packet one-way delay: 83.270 ms  
Loss rate: 3.81%

Run 8: Report of FillP — Data Link



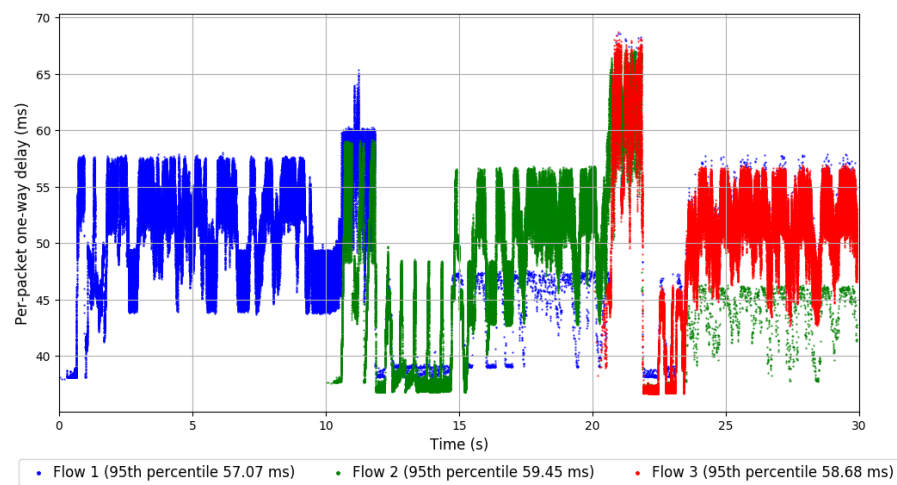
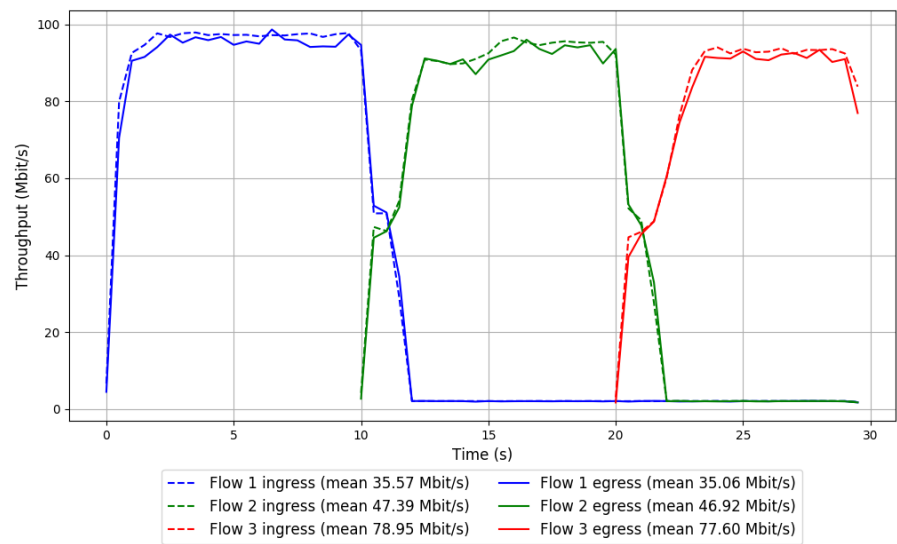


Run 9: Statistics of FillP

Start at: 2018-04-17 16:38:54  
End at: 2018-04-17 16:39:24  
Local clock offset: -0.056 ms  
Remote clock offset: -1.942 ms

# Below is generated by plot.py at 2018-04-17 22:02:57  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 91.86 Mbit/s  
95th percentile per-packet one-way delay: 57.375 ms  
Loss rate: 1.75%  
-- Flow 1:  
Average throughput: 35.06 Mbit/s  
95th percentile per-packet one-way delay: 57.069 ms  
Loss rate: 1.63%  
-- Flow 2:  
Average throughput: 46.92 Mbit/s  
95th percentile per-packet one-way delay: 59.455 ms  
Loss rate: 1.32%  
-- Flow 3:  
Average throughput: 77.60 Mbit/s  
95th percentile per-packet one-way delay: 58.684 ms  
Loss rate: 2.45%

Run 9: Report of FillP — Data Link

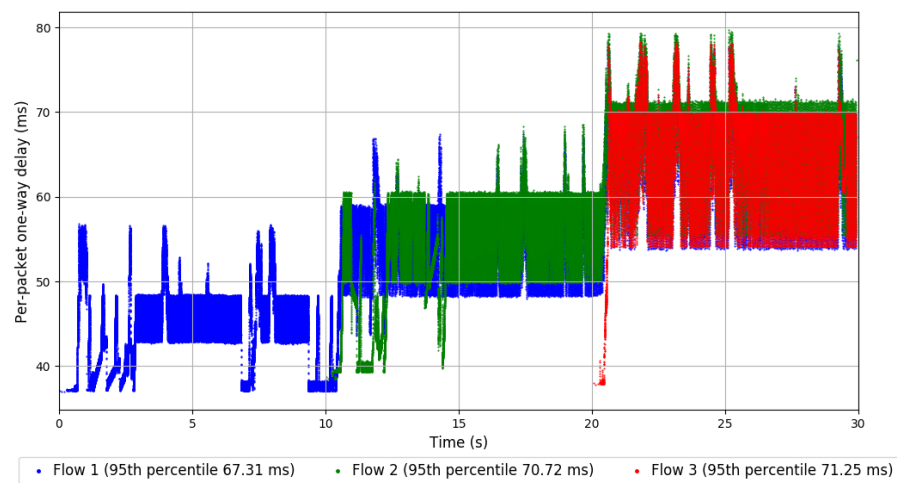
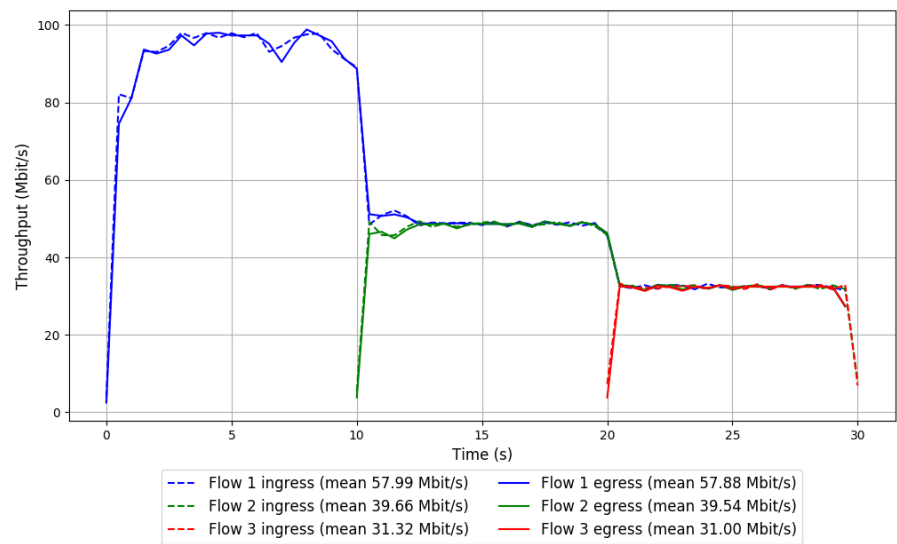


Run 10: Statistics of FillP

Start at: 2018-04-17 17:04:21  
End at: 2018-04-17 17:04:51  
Local clock offset: 0.766 ms  
Remote clock offset: -2.357 ms

# Below is generated by plot.py at 2018-04-17 22:03:02  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 94.41 Mbit/s  
95th percentile per-packet one-way delay: 69.418 ms  
Loss rate: 0.99%  
-- Flow 1:  
Average throughput: 57.88 Mbit/s  
95th percentile per-packet one-way delay: 67.313 ms  
Loss rate: 0.52%  
-- Flow 2:  
Average throughput: 39.54 Mbit/s  
95th percentile per-packet one-way delay: 70.716 ms  
Loss rate: 1.27%  
-- Flow 3:  
Average throughput: 31.00 Mbit/s  
95th percentile per-packet one-way delay: 71.249 ms  
Loss rate: 2.90%

Run 10: Report of FillP — Data Link

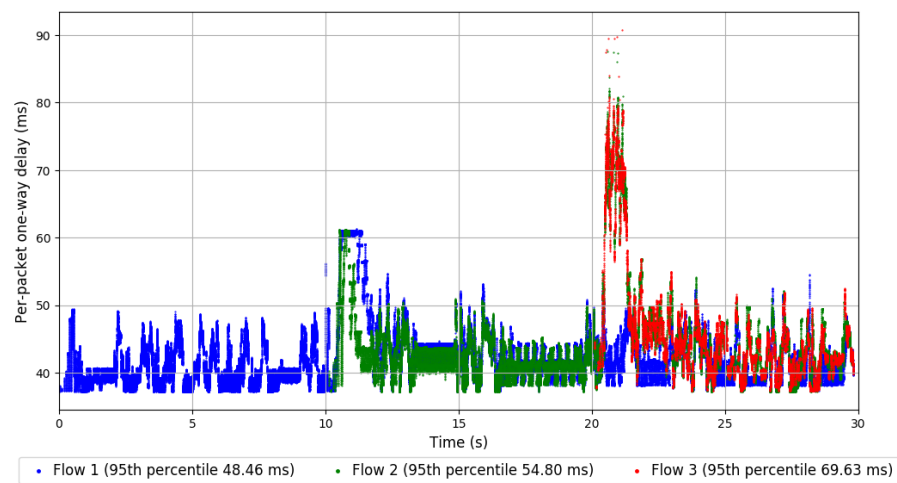
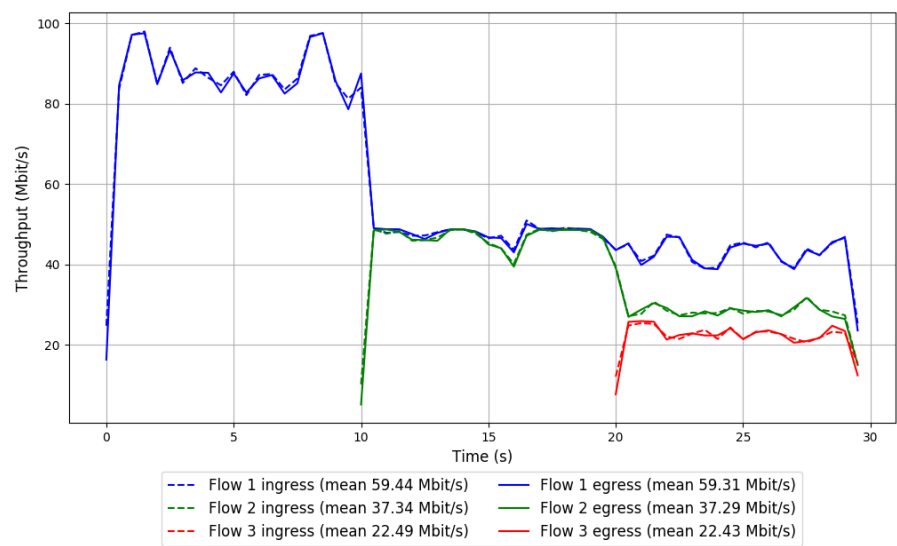


Run 1: Statistics of Indigo-1-32

Start at: 2018-04-17 13:18:34  
End at: 2018-04-17 13:19:04  
Local clock offset: -0.293 ms  
Remote clock offset: -1.918 ms

# Below is generated by plot.py at 2018-04-17 22:03:02  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 91.23 Mbit/s  
95th percentile per-packet one-way delay: 51.172 ms  
Loss rate: 0.50%  
-- Flow 1:  
Average throughput: 59.31 Mbit/s  
95th percentile per-packet one-way delay: 48.461 ms  
Loss rate: 0.44%  
-- Flow 2:  
Average throughput: 37.29 Mbit/s  
95th percentile per-packet one-way delay: 54.795 ms  
Loss rate: 0.48%  
-- Flow 3:  
Average throughput: 22.43 Mbit/s  
95th percentile per-packet one-way delay: 69.634 ms  
Loss rate: 1.03%

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

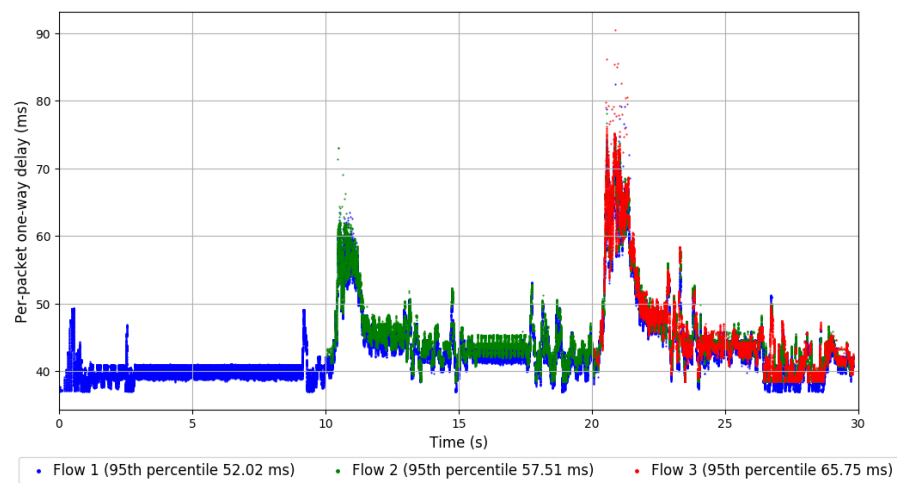
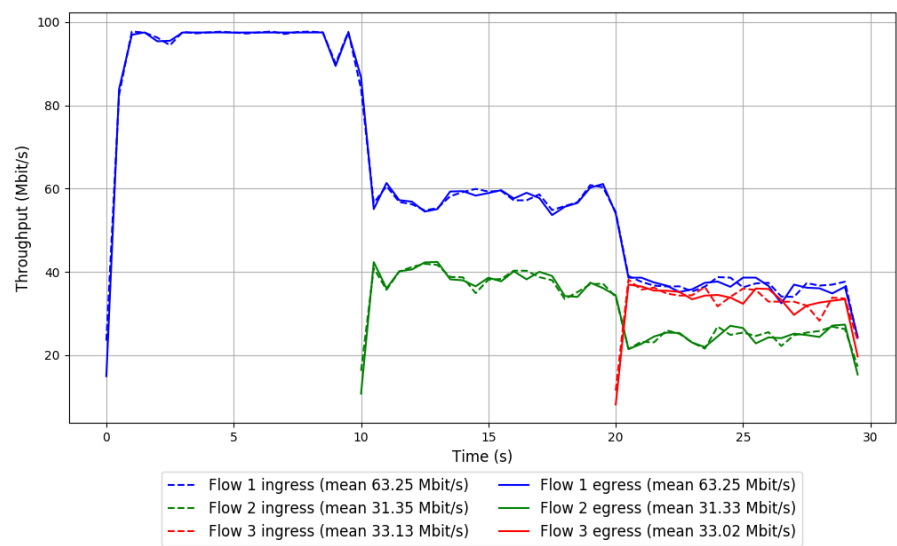


Run 2: Statistics of Indigo-1-32

Start at: 2018-04-17 13:42:24  
End at: 2018-04-17 13:42:54  
Local clock offset: 2.862 ms  
Remote clock offset: -2.462 ms

# Below is generated by plot.py at 2018-04-17 22:03:02  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 94.78 Mbit/s  
95th percentile per-packet one-way delay: 56.228 ms  
Loss rate: 0.37%  
-- Flow 1:  
Average throughput: 63.25 Mbit/s  
95th percentile per-packet one-way delay: 52.022 ms  
Loss rate: 0.23%  
-- Flow 2:  
Average throughput: 31.33 Mbit/s  
95th percentile per-packet one-way delay: 57.514 ms  
Loss rate: 0.41%  
-- Flow 3:  
Average throughput: 33.02 Mbit/s  
95th percentile per-packet one-way delay: 65.748 ms  
Loss rate: 1.05%

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



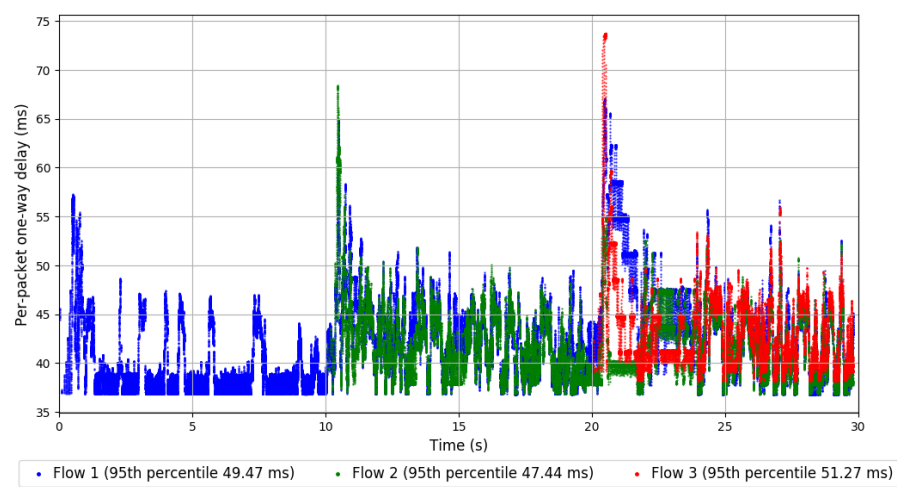
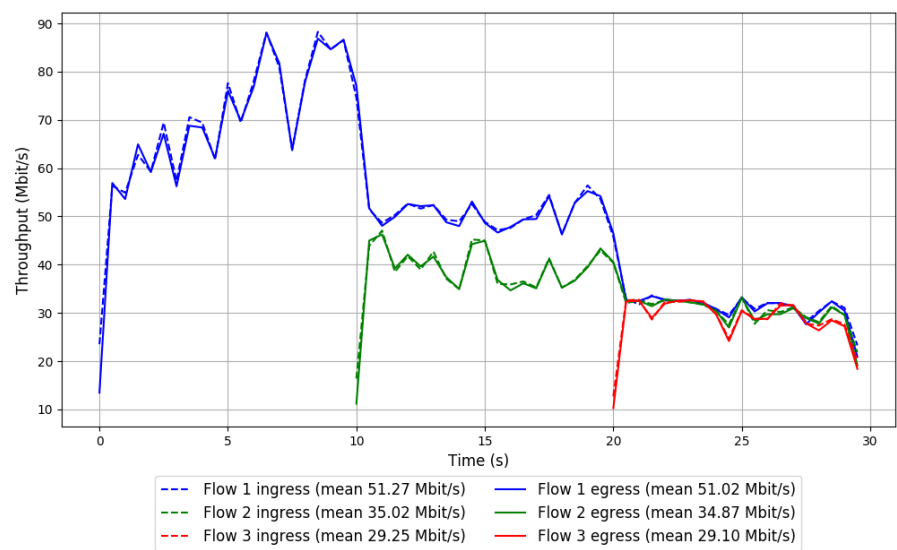


Run 3: Statistics of Indigo-1-32

Start at: 2018-04-17 14:06:48  
End at: 2018-04-17 14:07:18  
Local clock offset: 7.486 ms  
Remote clock offset: -2.022 ms

# Below is generated by plot.py at 2018-04-17 22:03:07  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 83.68 Mbit/s  
95th percentile per-packet one-way delay: 48.889 ms  
Loss rate: 0.80%  
-- Flow 1:  
Average throughput: 51.02 Mbit/s  
95th percentile per-packet one-way delay: 49.465 ms  
Loss rate: 0.73%  
-- Flow 2:  
Average throughput: 34.87 Mbit/s  
95th percentile per-packet one-way delay: 47.436 ms  
Loss rate: 0.78%  
-- Flow 3:  
Average throughput: 29.10 Mbit/s  
95th percentile per-packet one-way delay: 51.265 ms  
Loss rate: 1.24%

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



Run 4: Statistics of Indigo-1-32

Start at: 2018-04-17 14:35:14

End at: 2018-04-17 14:35:44

Local clock offset: 8.851 ms

Remote clock offset: -0.88 ms

# Below is generated by plot.py at 2018-04-17 22:03:07

# Datalink statistics

-- Total of 3 flows:

Average throughput: 67.33 Mbit/s

95th percentile per-packet one-way delay: 51.062 ms

Loss rate: 1.97%

-- Flow 1:

Average throughput: 30.15 Mbit/s

95th percentile per-packet one-way delay: 48.928 ms

Loss rate: 1.92%

-- Flow 2:

Average throughput: 38.76 Mbit/s

95th percentile per-packet one-way delay: 50.875 ms

Loss rate: 1.68%

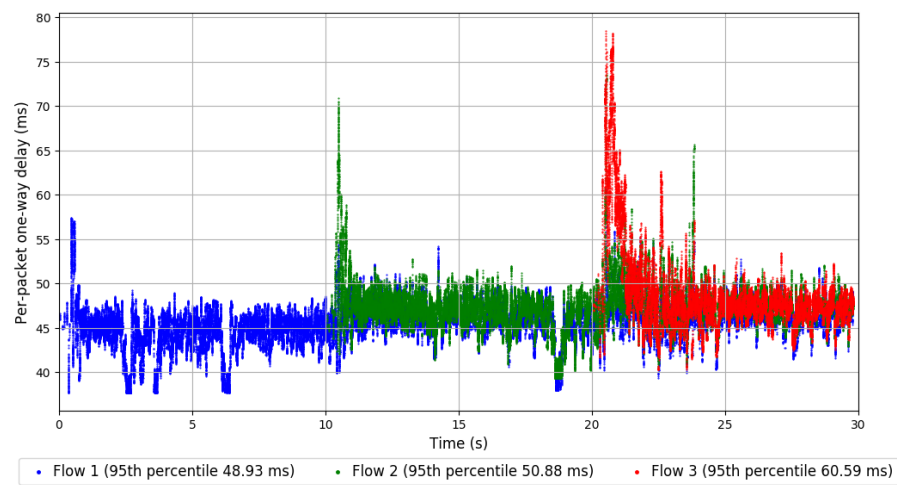
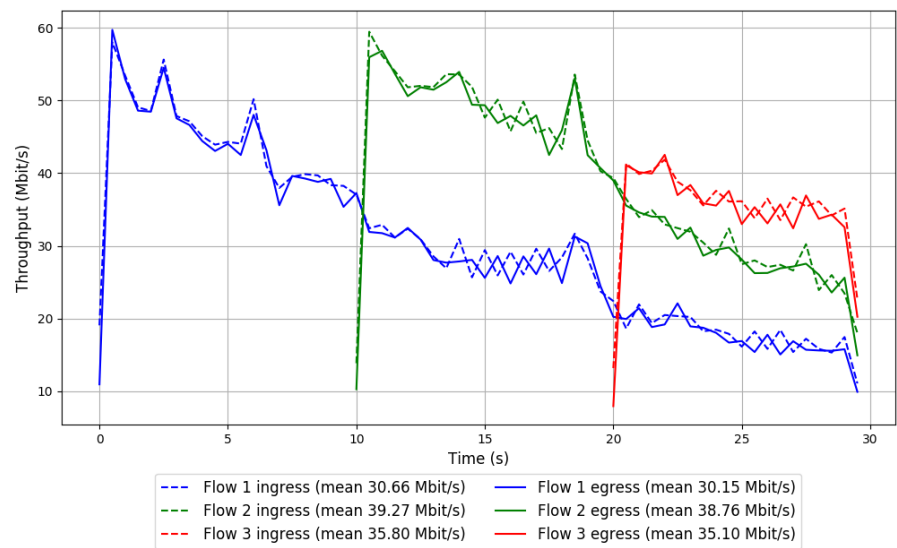
-- Flow 3:

Average throughput: 35.10 Mbit/s

95th percentile per-packet one-way delay: 60.590 ms

Loss rate: 2.74%

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

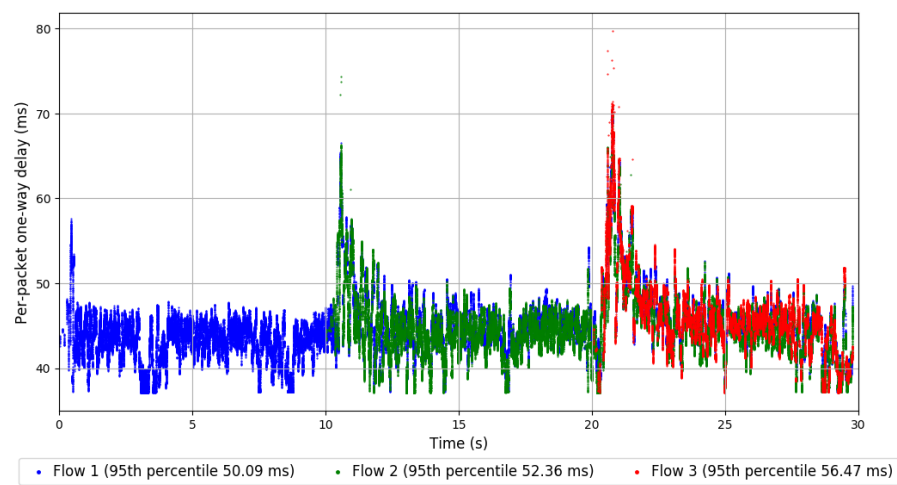
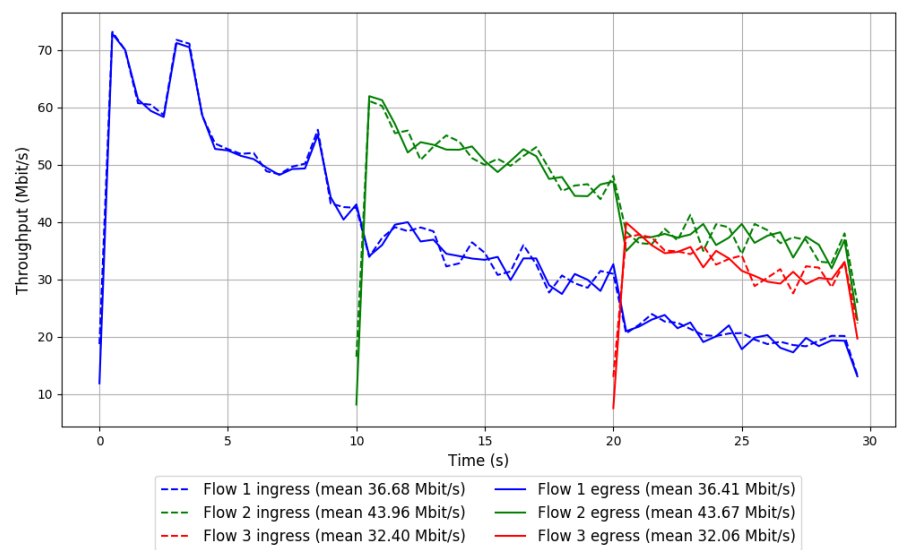


Run 5: Statistics of Indigo-1-32

Start at: 2018-04-17 15:02:03  
End at: 2018-04-17 15:02:33  
Local clock offset: -0.994 ms  
Remote clock offset: -0.054 ms

# Below is generated by plot.py at 2018-04-17 22:03:23  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 75.83 Mbit/s  
95th percentile per-packet one-way delay: 51.906 ms  
Loss rate: 1.11%  
-- Flow 1:  
Average throughput: 36.41 Mbit/s  
95th percentile per-packet one-way delay: 50.089 ms  
Loss rate: 0.98%  
-- Flow 2:  
Average throughput: 43.67 Mbit/s  
95th percentile per-packet one-way delay: 52.362 ms  
Loss rate: 1.03%  
-- Flow 3:  
Average throughput: 32.06 Mbit/s  
95th percentile per-packet one-way delay: 56.472 ms  
Loss rate: 1.76%

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

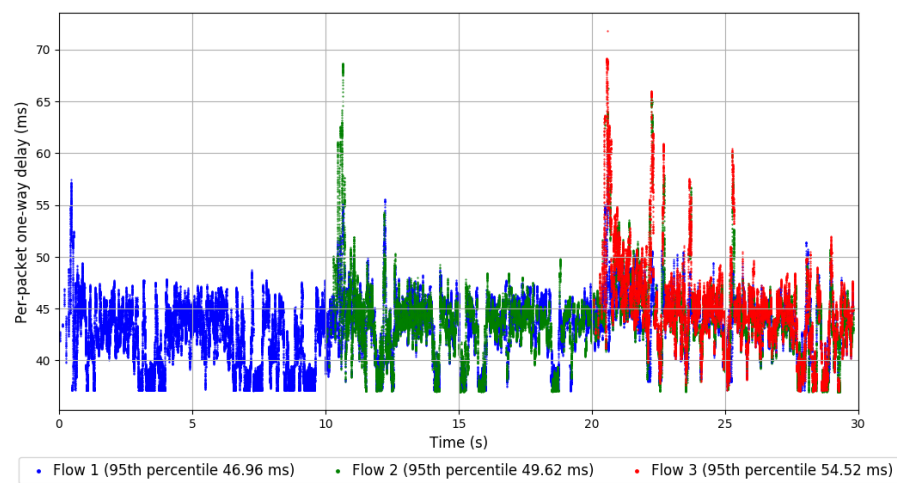
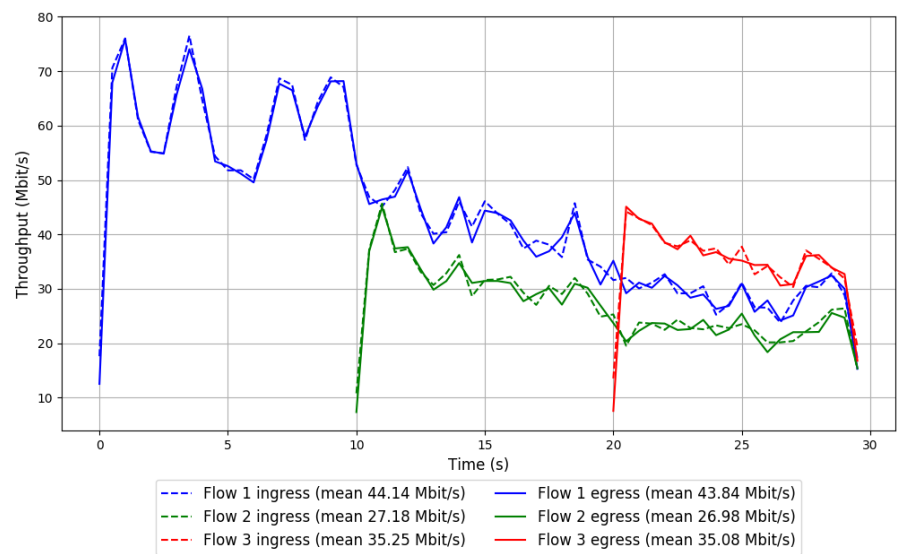


Run 6: Statistics of Indigo-1-32

Start at: 2018-04-17 15:30:10  
End at: 2018-04-17 15:30:40  
Local clock offset: -2.087 ms  
Remote clock offset: -6.299 ms

# Below is generated by plot.py at 2018-04-17 22:03:43  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 73.20 Mbit/s  
95th percentile per-packet one-way delay: 48.635 ms  
Loss rate: 1.01%  
-- Flow 1:  
Average throughput: 43.84 Mbit/s  
95th percentile per-packet one-way delay: 46.959 ms  
Loss rate: 0.91%  
-- Flow 2:  
Average throughput: 26.98 Mbit/s  
95th percentile per-packet one-way delay: 49.621 ms  
Loss rate: 1.10%  
-- Flow 3:  
Average throughput: 35.08 Mbit/s  
95th percentile per-packet one-way delay: 54.519 ms  
Loss rate: 1.25%

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



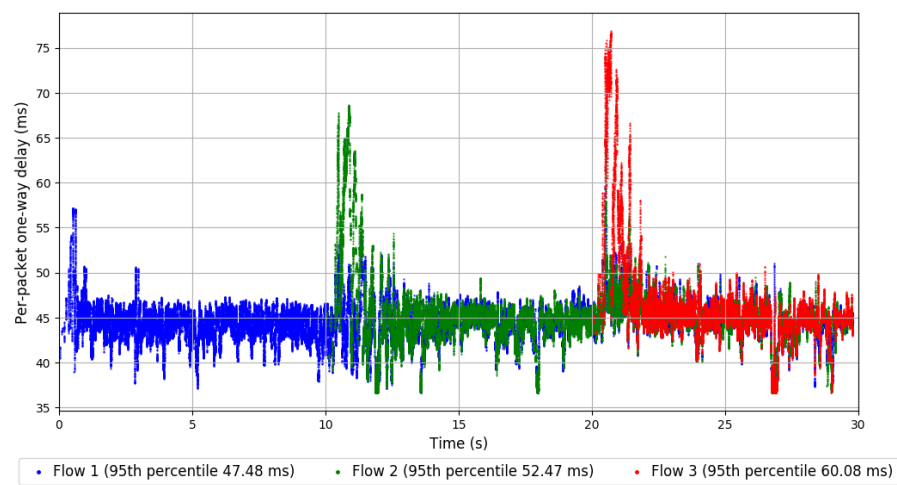
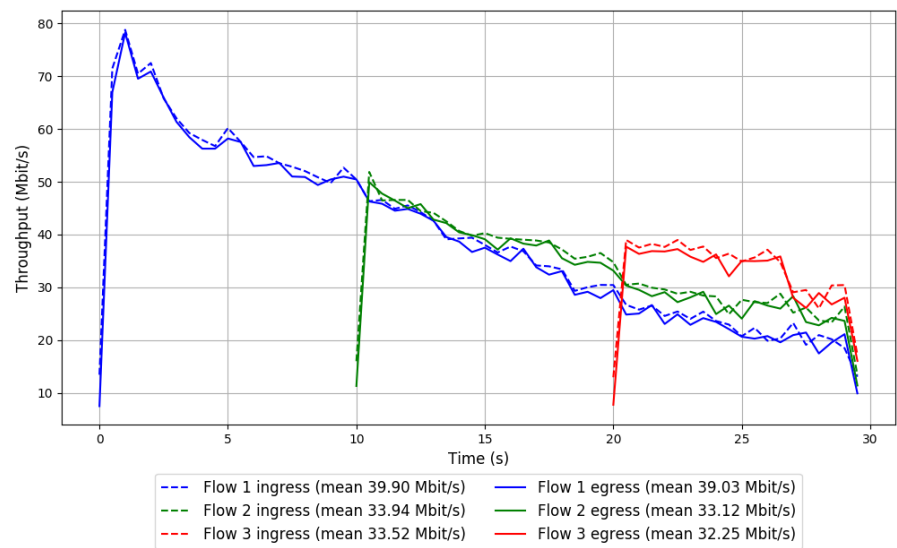


Run 7: Statistics of Indigo-1-32

Start at: 2018-04-17 15:58:25  
End at: 2018-04-17 15:58:55  
Local clock offset: -0.371 ms  
Remote clock offset: -6.051 ms

# Below is generated by plot.py at 2018-04-17 22:03:58  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 71.50 Mbit/s  
95th percentile per-packet one-way delay: 49.639 ms  
Loss rate: 2.85%  
-- Flow 1:  
Average throughput: 39.03 Mbit/s  
95th percentile per-packet one-way delay: 47.483 ms  
Loss rate: 2.43%  
-- Flow 2:  
Average throughput: 33.12 Mbit/s  
95th percentile per-packet one-way delay: 52.469 ms  
Loss rate: 2.79%  
-- Flow 3:  
Average throughput: 32.25 Mbit/s  
95th percentile per-packet one-way delay: 60.081 ms  
Loss rate: 4.52%

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

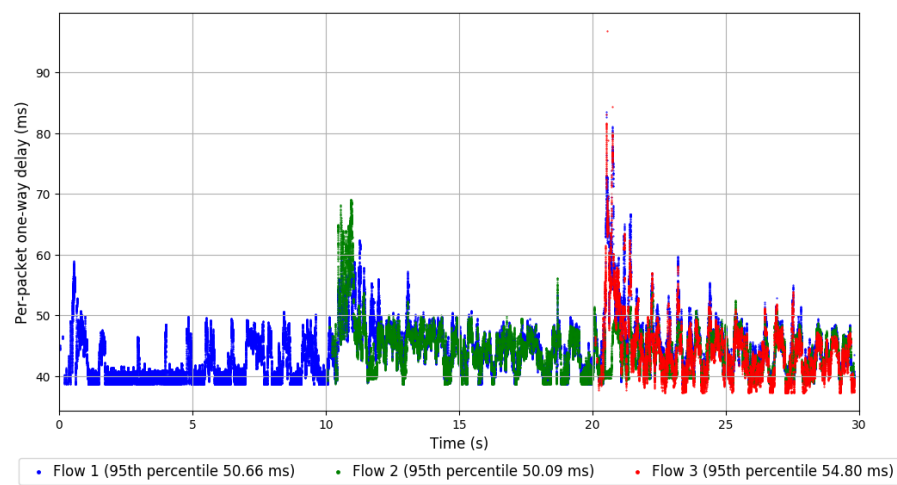
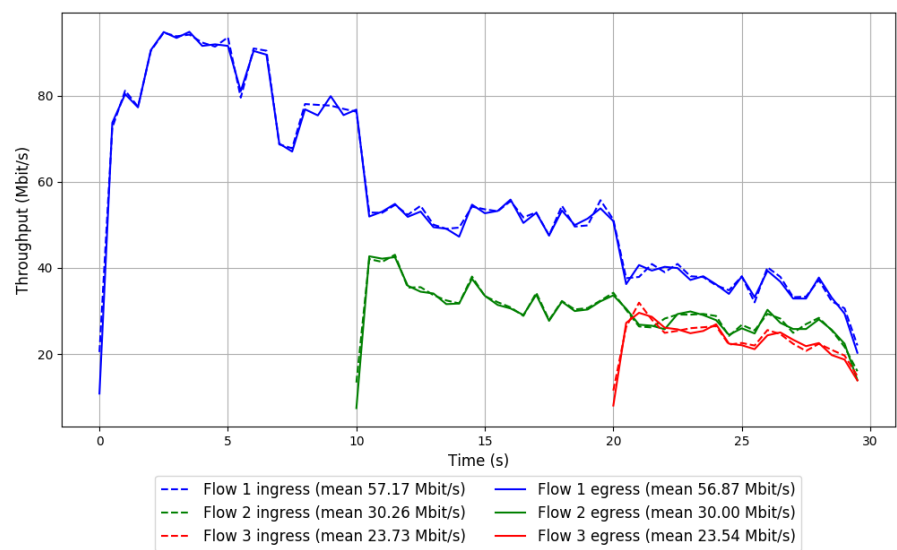


Run 8: Statistics of Indigo-1-32

Start at: 2018-04-17 16:26:01  
End at: 2018-04-17 16:26:31  
Local clock offset: 0.011 ms  
Remote clock offset: -4.441 ms

# Below is generated by plot.py at 2018-04-17 22:04:20  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 84.44 Mbit/s  
95th percentile per-packet one-way delay: 51.078 ms  
Loss rate: 0.94%  
-- Flow 1:  
Average throughput: 56.87 Mbit/s  
95th percentile per-packet one-way delay: 50.662 ms  
Loss rate: 0.76%  
-- Flow 2:  
Average throughput: 30.00 Mbit/s  
95th percentile per-packet one-way delay: 50.095 ms  
Loss rate: 1.21%  
-- Flow 3:  
Average throughput: 23.54 Mbit/s  
95th percentile per-packet one-way delay: 54.797 ms  
Loss rate: 1.55%

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

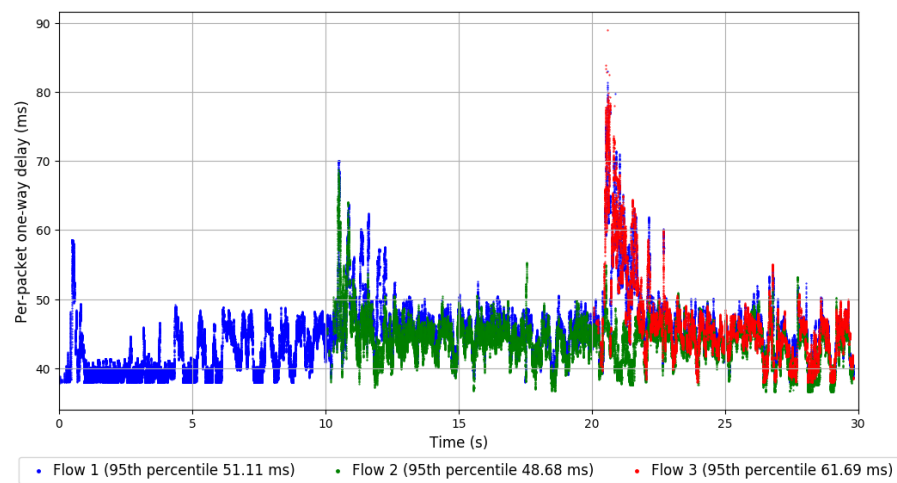
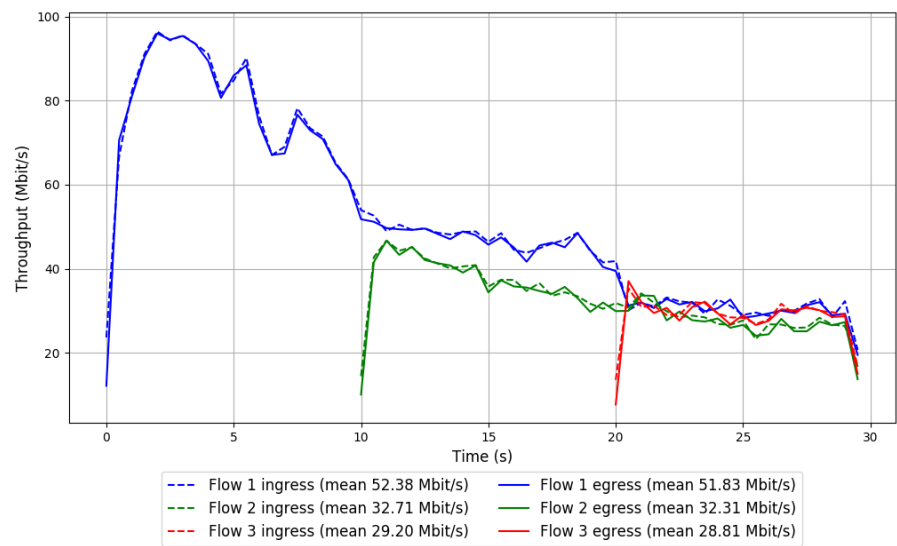


Run 9: Statistics of Indigo-1-32

Start at: 2018-04-17 16:51:27  
End at: 2018-04-17 16:51:57  
Local clock offset: 0.12 ms  
Remote clock offset: -0.924 ms

# Below is generated by plot.py at 2018-04-17 22:04:21  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 82.66 Mbit/s  
95th percentile per-packet one-way delay: 51.875 ms  
Loss rate: 1.43%  
-- Flow 1:  
Average throughput: 51.83 Mbit/s  
95th percentile per-packet one-way delay: 51.107 ms  
Loss rate: 1.28%  
-- Flow 2:  
Average throughput: 32.31 Mbit/s  
95th percentile per-packet one-way delay: 48.680 ms  
Loss rate: 1.60%  
-- Flow 3:  
Average throughput: 28.81 Mbit/s  
95th percentile per-packet one-way delay: 61.689 ms  
Loss rate: 1.88%

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



Run 10: Statistics of Indigo-1-32

Start at: 2018-04-17 17:15:47

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

Local clock offset: 0.925 ms

Remote clock offset: -2.72 ms

# Below is generated by plot.py at 2018-04-17 22:04:31

# Datalink statistics

-- Total of 3 flows:

Average throughput: 92.22 Mbit/s

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

Loss rate: 0.55%

-- Flow 1:

Average throughput: 64.38 Mbit/s

95th percentile per-packet one-way delay: 52.044 ms

Loss rate: 0.46%

-- Flow 2:

Average throughput: 25.04 Mbit/s

95th percentile per-packet one-way delay: 55.662 ms

Loss rate: 0.63%

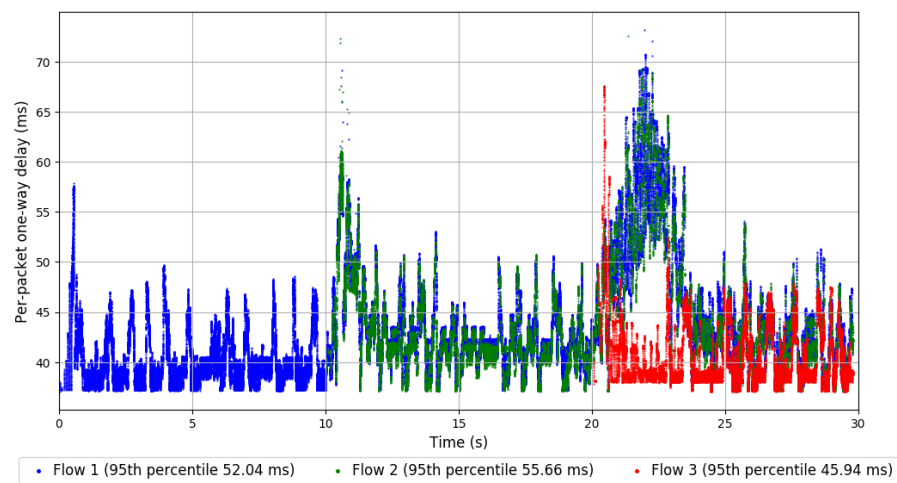
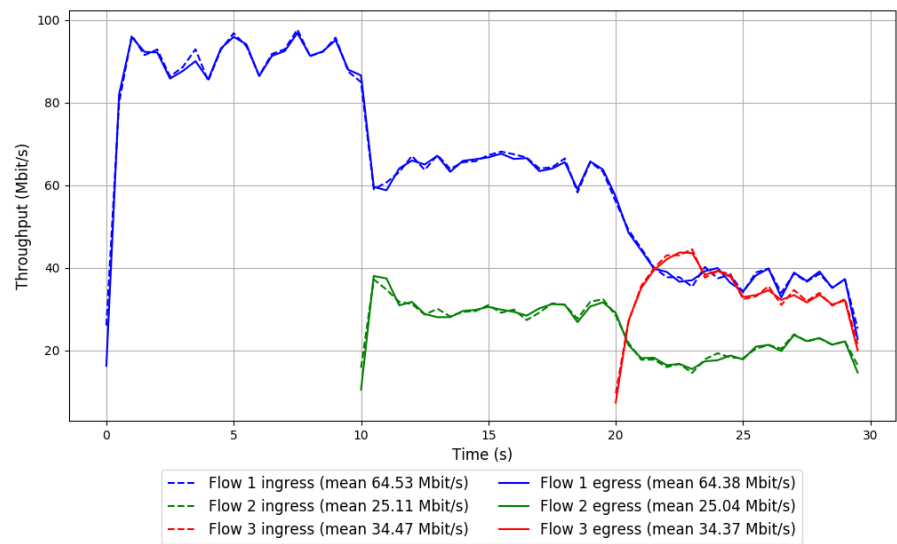
-- Flow 3:

Average throughput: 34.37 Mbit/s

95th percentile per-packet one-way delay: 45.937 ms

Loss rate: 0.98%

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





Run 1: Statistics of PCC-Vivace

Start at: 2018-04-17 13:21:24

End at: 2018-04-17 13:21:54

Local clock offset: -0.386 ms

Remote clock offset: -1.3 ms

# Below is generated by plot.py at 2018-04-17 22:04:34

# Datalink statistics

-- Total of 3 flows:

Average throughput: 82.45 Mbit/s

95th percentile per-packet one-way delay: 47.887 ms

Loss rate: 0.69%

-- Flow 1:

Average throughput: 68.85 Mbit/s

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

Loss rate: 0.61%

-- Flow 2:

Average throughput: 17.46 Mbit/s

95th percentile per-packet one-way delay: 49.881 ms

Loss rate: 0.98%

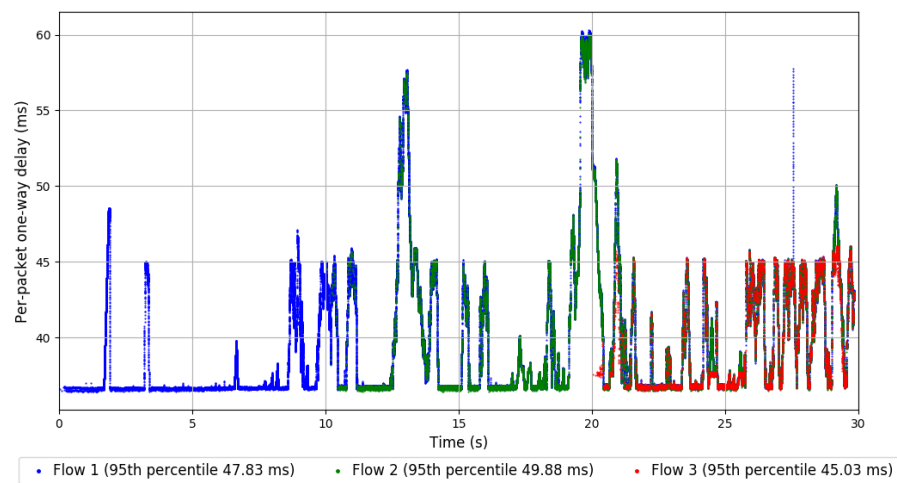
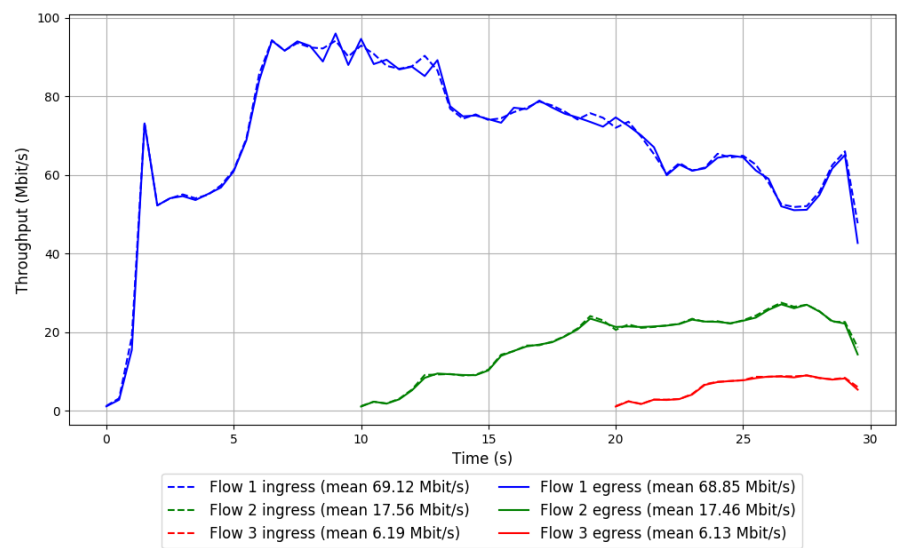
-- Flow 3:

Average throughput: 6.13 Mbit/s

95th percentile per-packet one-way delay: 45.030 ms

Loss rate: 1.70%

Run 1: Report of PCC-Vivace — Data Link

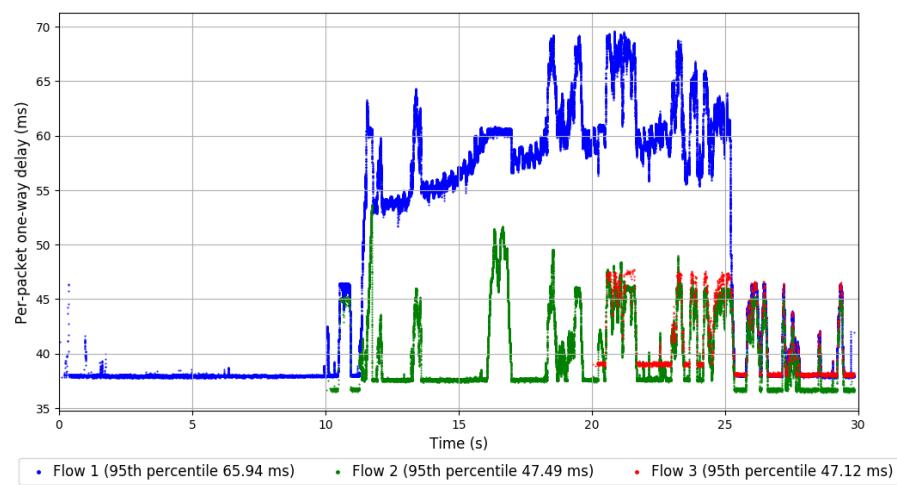
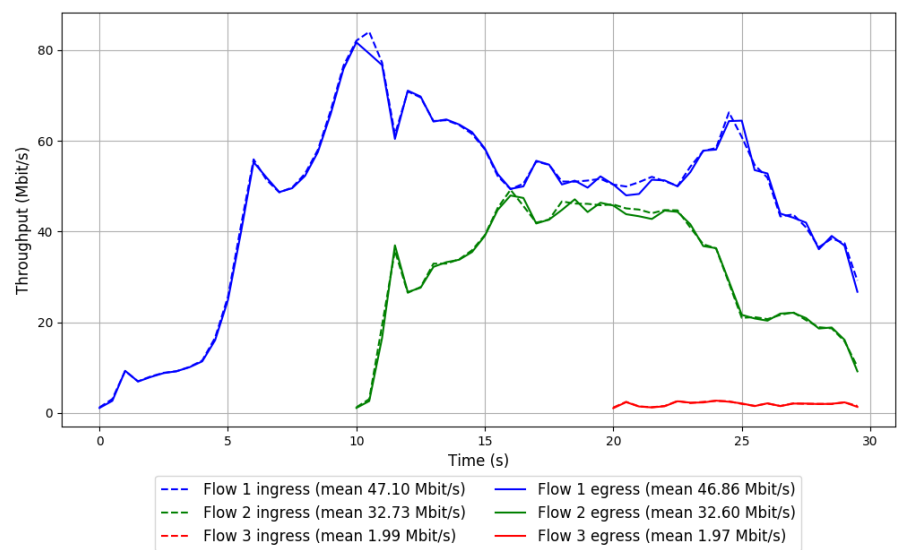


Run 2: Statistics of PCC-Vivace

Start at: 2018-04-17 13:45:10  
End at: 2018-04-17 13:45:40  
Local clock offset: 3.067 ms  
Remote clock offset: -2.011 ms

# Below is generated by plot.py at 2018-04-17 22:04:34  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 69.16 Mbit/s  
95th percentile per-packet one-way delay: 64.024 ms  
Loss rate: 0.73%  
-- Flow 1:  
Average throughput: 46.86 Mbit/s  
95th percentile per-packet one-way delay: 65.942 ms  
Loss rate: 0.72%  
-- Flow 2:  
Average throughput: 32.60 Mbit/s  
95th percentile per-packet one-way delay: 47.495 ms  
Loss rate: 0.74%  
-- Flow 3:  
Average throughput: 1.97 Mbit/s  
95th percentile per-packet one-way delay: 47.120 ms  
Loss rate: 1.60%

Run 2: Report of PCC-Vivace — Data Link

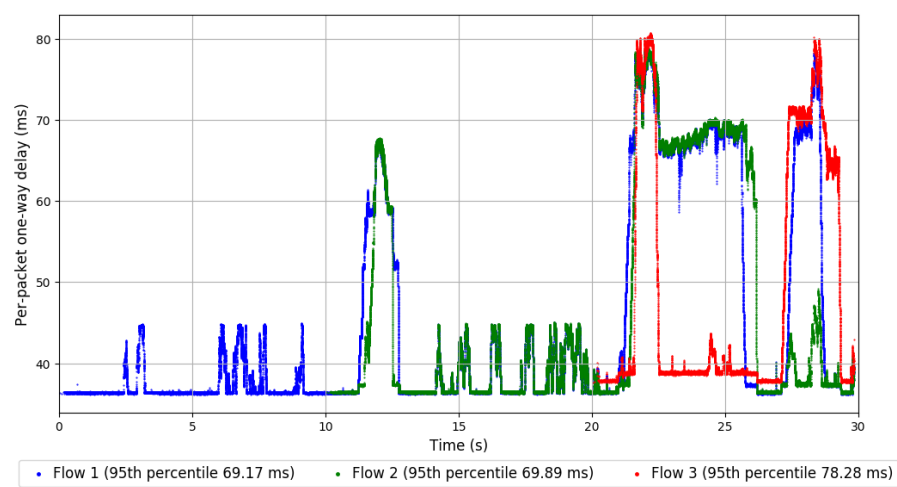
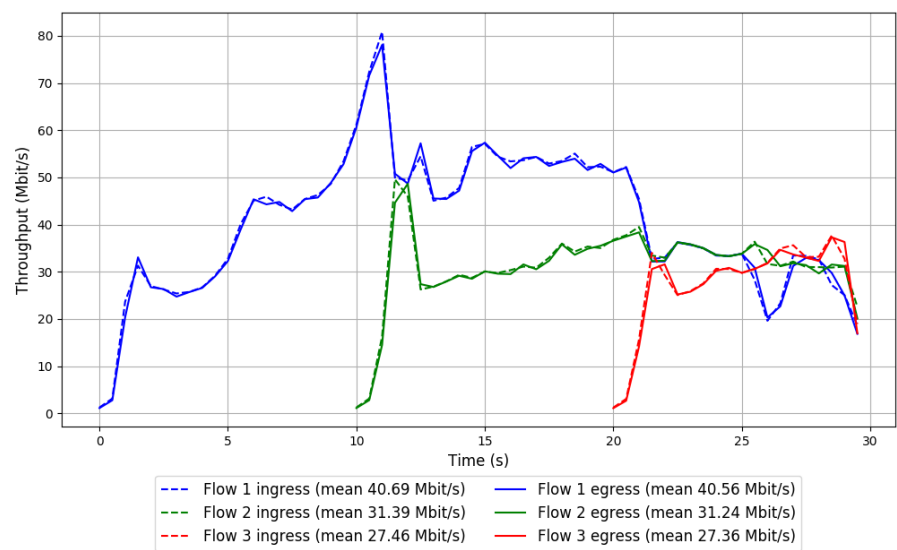


Run 3: Statistics of PCC-Vivace

Start at: 2018-04-17 14:09:40  
End at: 2018-04-17 14:10:10  
Local clock offset: 8.23 ms  
Remote clock offset: -1.365 ms

# Below is generated by plot.py at 2018-04-17 22:04:38  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 70.30 Mbit/s  
95th percentile per-packet one-way delay: 71.284 ms  
Loss rate: 0.68%  
-- Flow 1:  
Average throughput: 40.56 Mbit/s  
95th percentile per-packet one-way delay: 69.171 ms  
Loss rate: 0.53%  
-- Flow 2:  
Average throughput: 31.24 Mbit/s  
95th percentile per-packet one-way delay: 69.888 ms  
Loss rate: 0.80%  
-- Flow 3:  
Average throughput: 27.36 Mbit/s  
95th percentile per-packet one-way delay: 78.279 ms  
Loss rate: 1.02%

Run 3: Report of PCC-Vivace — Data Link

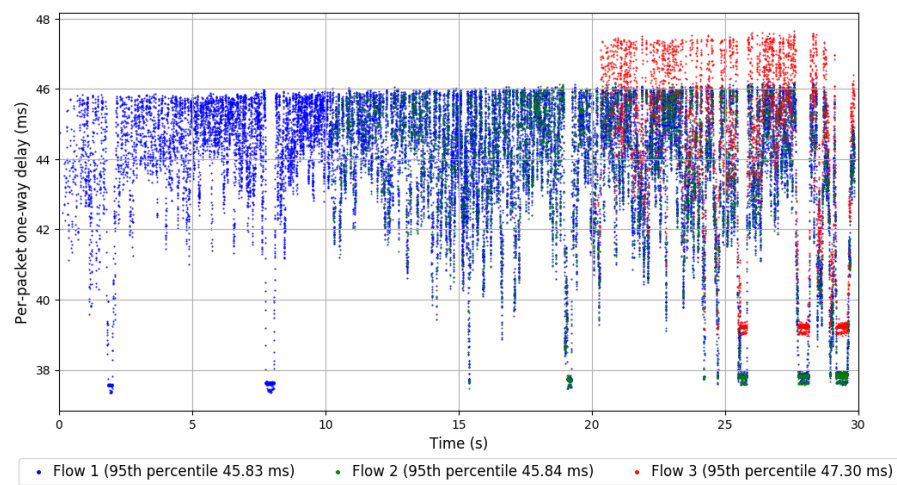
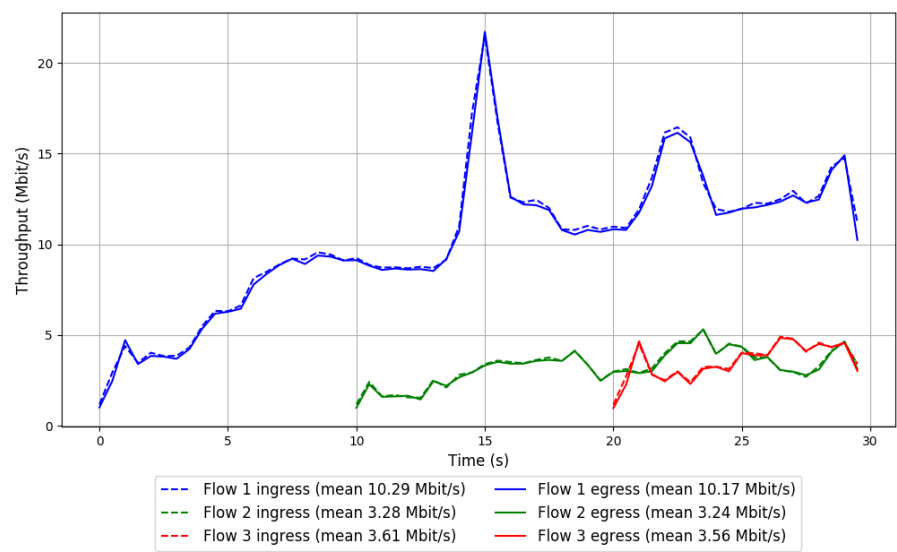


Run 4: Statistics of PCC-Vivace

Start at: 2018-04-17 14:38:36  
End at: 2018-04-17 14:39:06  
Local clock offset: 6.053 ms  
Remote clock offset: -0.889 ms

# Below is generated by plot.py at 2018-04-17 22:04:38  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 13.49 Mbit/s  
95th percentile per-packet one-way delay: 45.944 ms  
Loss rate: 1.52%  
-- Flow 1:  
Average throughput: 10.17 Mbit/s  
95th percentile per-packet one-way delay: 45.831 ms  
Loss rate: 1.43%  
-- Flow 2:  
Average throughput: 3.24 Mbit/s  
95th percentile per-packet one-way delay: 45.842 ms  
Loss rate: 1.61%  
-- Flow 3:  
Average throughput: 3.56 Mbit/s  
95th percentile per-packet one-way delay: 47.303 ms  
Loss rate: 2.13%

Run 4: Report of PCC-Vivace — Data Link





Run 5: Statistics of PCC-Vivace

Start at: 2018-04-17 15:05:20

End at: 2018-04-17 15:05:50

Local clock offset: -1.327 ms

Remote clock offset: 0.5 ms

# Below is generated by plot.py at 2018-04-17 22:04:38

# Datalink statistics

-- Total of 3 flows:

Average throughput: 12.66 Mbit/s

95th percentile per-packet one-way delay: 45.964 ms

Loss rate: 1.25%

-- Flow 1:

Average throughput: 6.67 Mbit/s

95th percentile per-packet one-way delay: 46.205 ms

Loss rate: 1.11%

-- Flow 2:

Average throughput: 7.01 Mbit/s

95th percentile per-packet one-way delay: 44.870 ms

Loss rate: 1.28%

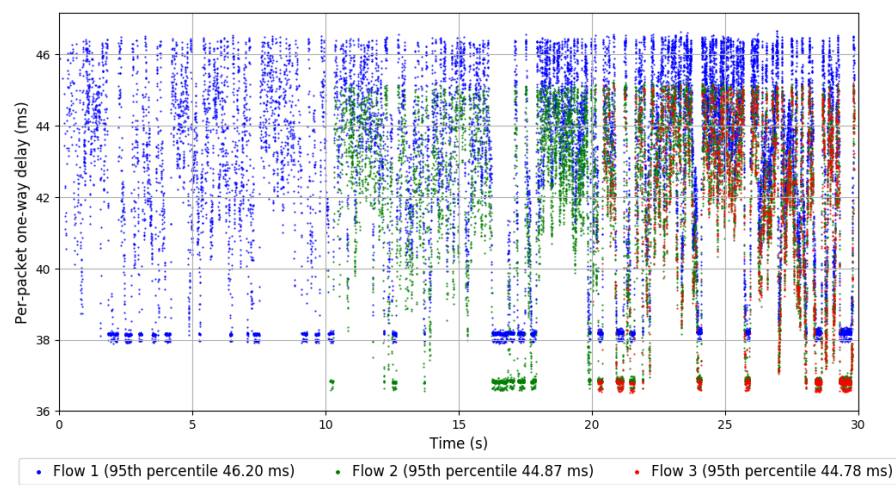
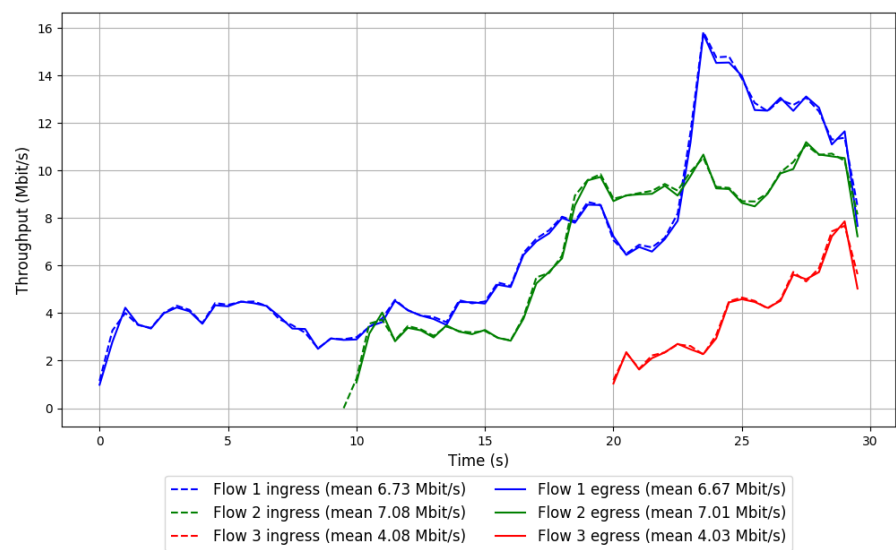
-- Flow 3:

Average throughput: 4.03 Mbit/s

95th percentile per-packet one-way delay: 44.778 ms

Loss rate: 1.86%

Run 5: Report of PCC-Vivace — Data Link

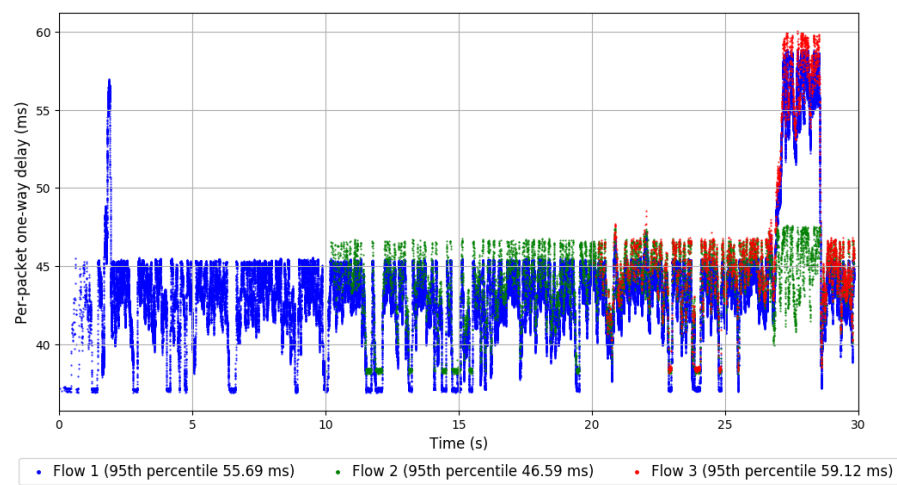
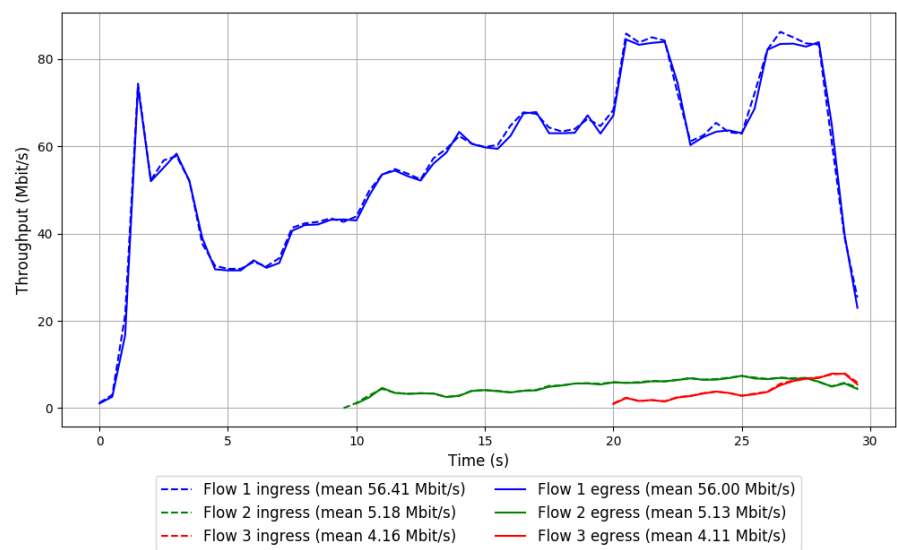


Run 6: Statistics of PCC-Vivace

Start at: 2018-04-17 15:33:16  
End at: 2018-04-17 15:33:46  
Local clock offset: -2.41 ms  
Remote clock offset: -6.829 ms

# Below is generated by plot.py at 2018-04-17 22:04:50  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 60.75 Mbit/s  
95th percentile per-packet one-way delay: 55.703 ms  
Loss rate: 0.99%  
-- Flow 1:  
Average throughput: 56.00 Mbit/s  
95th percentile per-packet one-way delay: 55.691 ms  
Loss rate: 0.94%  
-- Flow 2:  
Average throughput: 5.13 Mbit/s  
95th percentile per-packet one-way delay: 46.587 ms  
Loss rate: 1.37%  
-- Flow 3:  
Average throughput: 4.11 Mbit/s  
95th percentile per-packet one-way delay: 59.117 ms  
Loss rate: 2.07%

Run 6: Report of PCC-Vivace — Data Link

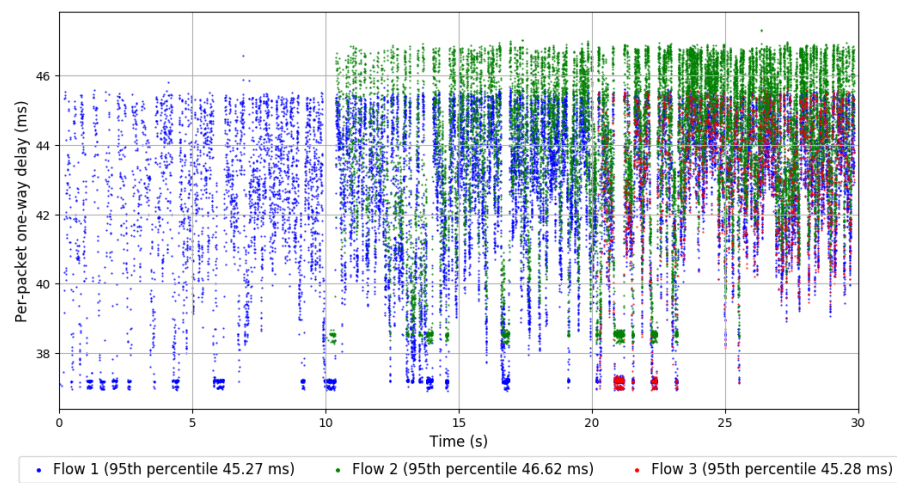
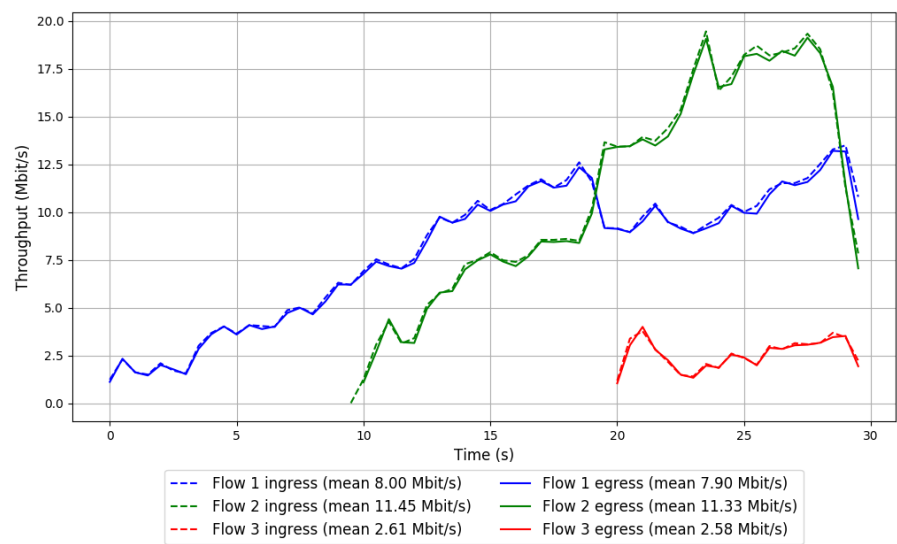


Run 7: Statistics of PCC-Vivace

Start at: 2018-04-17 16:02:00  
End at: 2018-04-17 16:02:30  
Local clock offset: -0.312 ms  
Remote clock offset: -6.473 ms

# Below is generated by plot.py at 2018-04-17 22:04:50  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 16.28 Mbit/s  
95th percentile per-packet one-way delay: 46.377 ms  
Loss rate: 1.47%  
-- Flow 1:  
Average throughput: 7.90 Mbit/s  
95th percentile per-packet one-way delay: 45.269 ms  
Loss rate: 1.48%  
-- Flow 2:  
Average throughput: 11.33 Mbit/s  
95th percentile per-packet one-way delay: 46.623 ms  
Loss rate: 1.41%  
-- Flow 3:  
Average throughput: 2.58 Mbit/s  
95th percentile per-packet one-way delay: 45.283 ms  
Loss rate: 1.93%

Run 7: Report of PCC-Vivace — Data Link

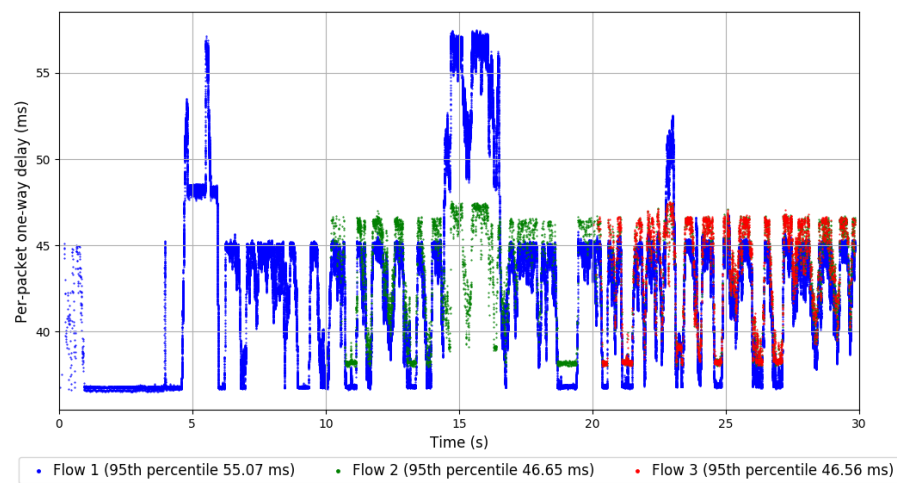
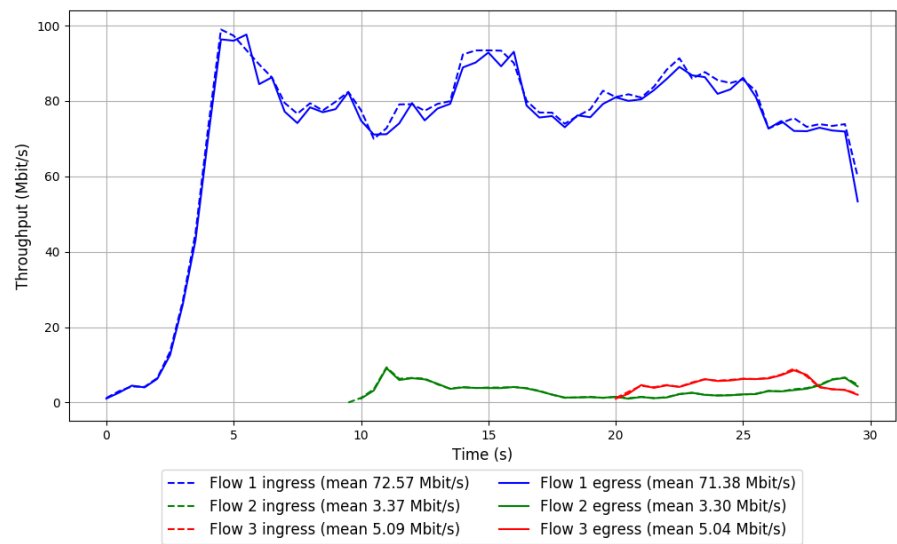


Run 8: Statistics of PCC-Vivace

Start at: 2018-04-17 16:28:57  
End at: 2018-04-17 16:29:27  
Local clock offset: -0.012 ms  
Remote clock offset: -3.278 ms

# Below is generated by plot.py at 2018-04-17 22:04:57  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 75.23 Mbit/s  
95th percentile per-packet one-way delay: 54.538 ms  
Loss rate: 1.88%  
-- Flow 1:  
Average throughput: 71.38 Mbit/s  
95th percentile per-packet one-way delay: 55.073 ms  
Loss rate: 1.86%  
-- Flow 2:  
Average throughput: 3.30 Mbit/s  
95th percentile per-packet one-way delay: 46.654 ms  
Loss rate: 2.56%  
-- Flow 3:  
Average throughput: 5.04 Mbit/s  
95th percentile per-packet one-way delay: 46.558 ms  
Loss rate: 1.77%

Run 8: Report of PCC-Vivace — Data Link



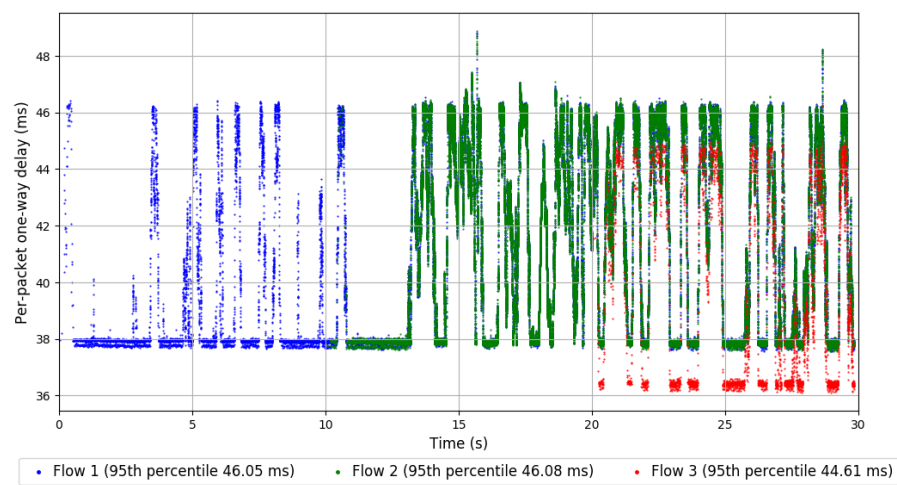
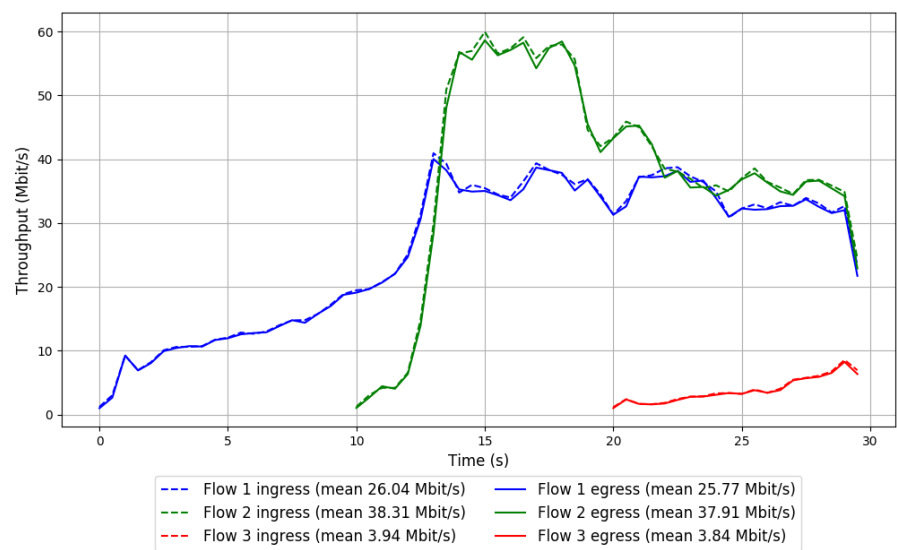


Run 9: Statistics of PCC-Vivace

Start at: 2018-04-17 16:54:29  
End at: 2018-04-17 16:54:59  
Local clock offset: 0.345 ms  
Remote clock offset: -0.785 ms

```
# Below is generated by plot.py at 2018-04-17 22:04:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 52.21 Mbit/s
95th percentile per-packet one-way delay: 46.066 ms
Loss rate: 1.37%
-- Flow 1:
Average throughput: 25.77 Mbit/s
95th percentile per-packet one-way delay: 46.054 ms
Loss rate: 1.26%
-- Flow 2:
Average throughput: 37.91 Mbit/s
95th percentile per-packet one-way delay: 46.083 ms
Loss rate: 1.39%
-- Flow 3:
Average throughput: 3.84 Mbit/s
95th percentile per-packet one-way delay: 44.609 ms
Loss rate: 3.21%
```

Run 9: Report of PCC-Vivace — Data Link

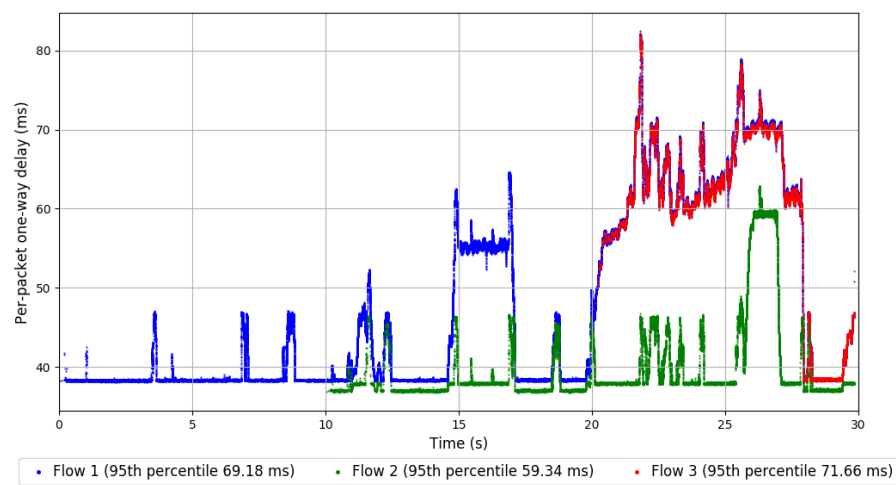
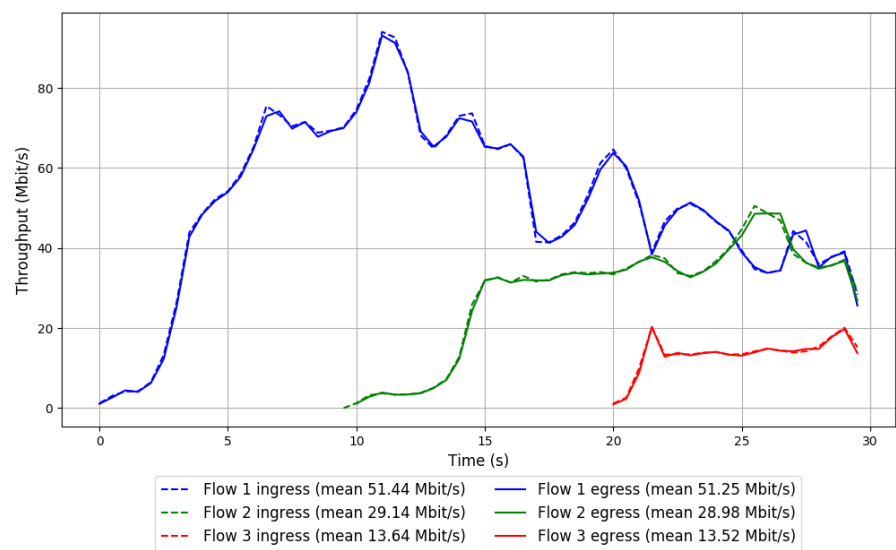


Run 10: Statistics of PCC-Vivace

Start at: 2018-04-17 17:18:38  
End at: 2018-04-17 17:19:08  
Local clock offset: 0.84 ms  
Remote clock offset: -2.627 ms

# Below is generated by plot.py at 2018-04-17 22:04:57  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 74.94 Mbit/s  
95th percentile per-packet one-way delay: 69.057 ms  
Loss rate: 0.73%  
-- Flow 1:  
Average throughput: 51.25 Mbit/s  
95th percentile per-packet one-way delay: 69.176 ms  
Loss rate: 0.59%  
-- Flow 2:  
Average throughput: 28.98 Mbit/s  
95th percentile per-packet one-way delay: 59.344 ms  
Loss rate: 0.90%  
-- Flow 3:  
Average throughput: 13.52 Mbit/s  
95th percentile per-packet one-way delay: 71.658 ms  
Loss rate: 1.64%

Run 10: Report of PCC-Vivace — Data Link



Run 1: Statistics of PCC-Expr

Start at: 2018-04-17 13:25:34  
End at: 2018-04-17 13:26:04  
Local clock offset: 0.316 ms  
Remote clock offset: -1.273 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 13:49:24

End at: 2018-04-17 13:49:54

Local clock offset: 3.27 ms

Remote clock offset: -2.016 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 14:14:04

End at: 2018-04-17 14:14:34

Local clock offset: 9.233 ms

Remote clock offset: -1.571 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 14:43:20

End at: 2018-04-17 14:43:50

Local clock offset: 3.519 ms

Remote clock offset: -0.756 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 15:10:04

End at: 2018-04-17 15:10:34

Local clock offset: -1.271 ms

Remote clock offset: 0.586 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 15:37:57

End at: 2018-04-17 15:38:27

Local clock offset: -2.68 ms

Remote clock offset: -6.973 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 16:06:35

End at: 2018-04-17 16:07:05

Local clock offset: -0.352 ms

Remote clock offset: -6.049 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 16:33:24  
End at: 2018-04-17 16:33:54  
Local clock offset: -0.101 ms  
Remote clock offset: -3.008 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 16:58:51

End at: 2018-04-17 16:59:21

Local clock offset: 0.509 ms

Remote clock offset: -2.042 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 17:22:58

End at: 2018-04-17 17:23:28

Local clock offset: 0.983 ms

Remote clock offset: -2.113 ms

Run 10: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing