

## Pantheon Report

Generated at 2018-04-25 00:59:38 (UTC).

Data path: China Ethernet (*remote*) → AWS Korea 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**).

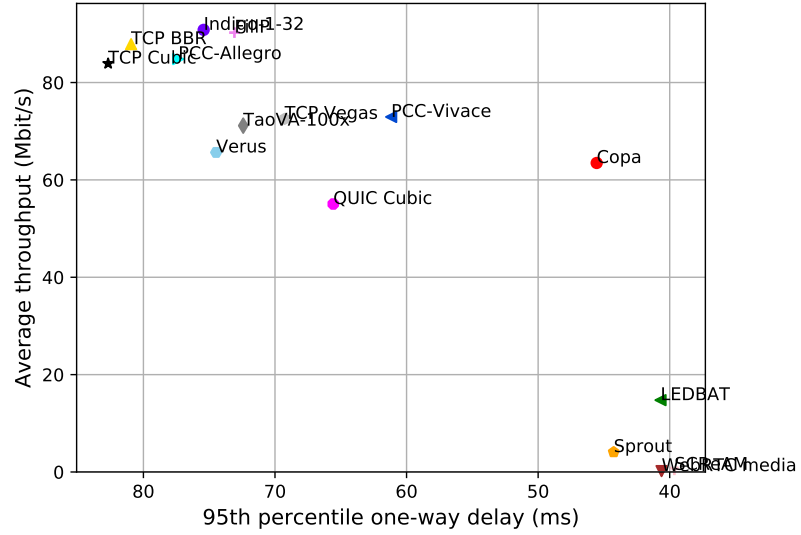
NTP offsets were measured against `ntp.nict.jp` and have been applied to correct the timestamps in logs.

Git summary:

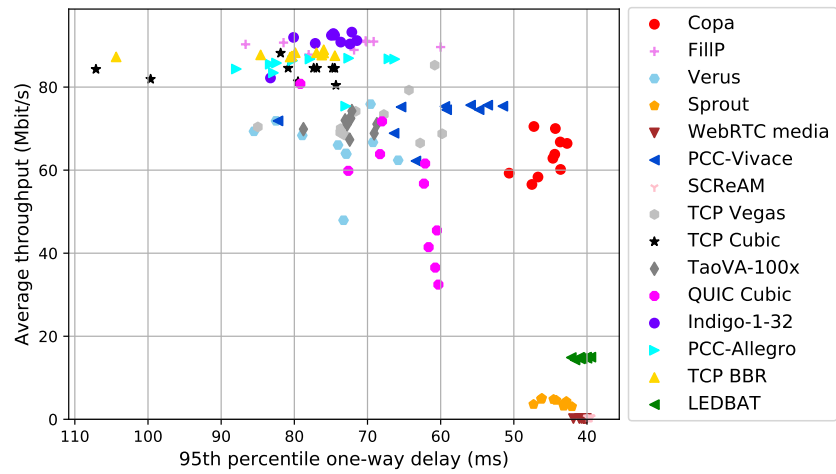
```
branch: master @ 114e807ac1bad7b85168ceb1f8a969063ee6c12c
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ 11f8c46a2bf1dc797253db7e8ca04076272b2a44
third_party/genericCC @ d223989828276fa83a807da6e0341dc0c7b89aec
third_party/indigo @ 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 China Ethernet to AWS Korea Ethernet, 10 runs of 30s each per scheme  
3 flows with 10s interval between flows (mean of all runs by scheme)



test from China Ethernet to AWS Korea Ethernet, 10 runs of 30s each per scheme  
3 flows with 10s interval between flows





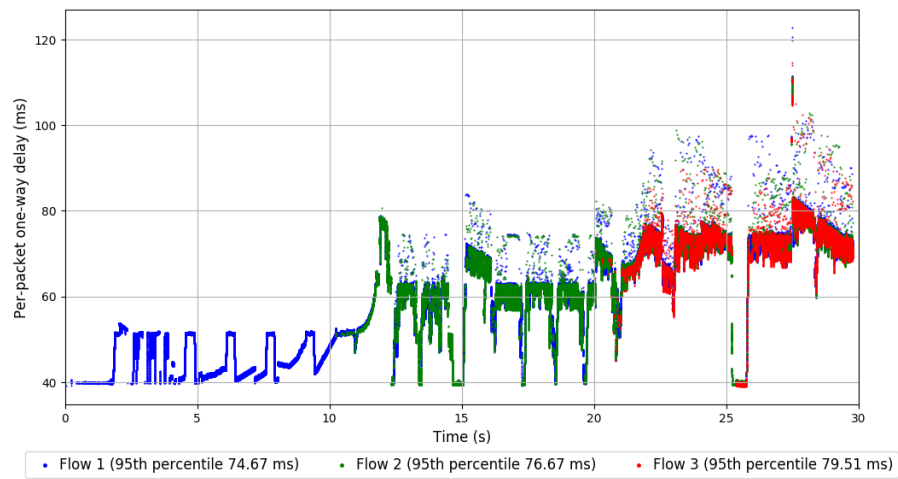
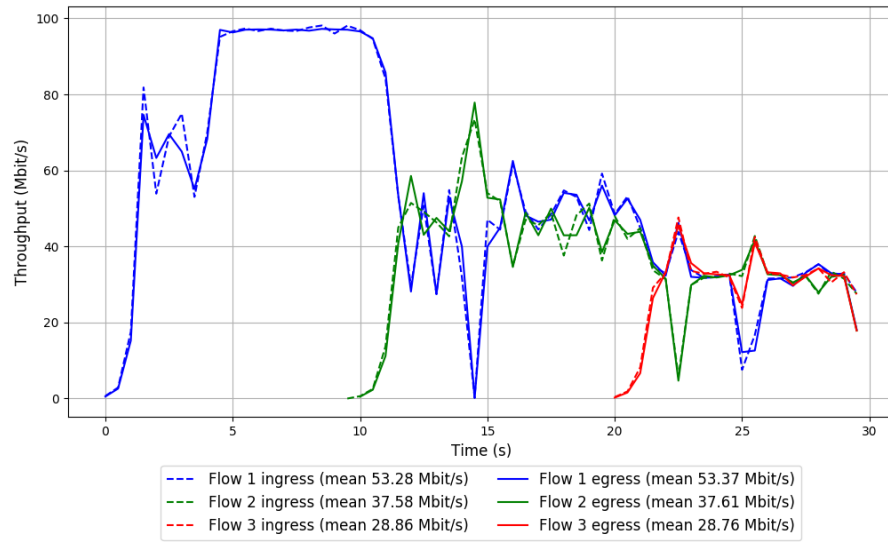


Run 1: Statistics of TCP BBR

Start at: 2018-04-24 17:14:46  
End at: 2018-04-24 17:15:16  
Local clock offset: -1.348 ms  
Remote clock offset: -5.874 ms

# Below is generated by plot.py at 2018-04-25 00:40:56  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 87.71 Mbit/s  
95th percentile per-packet one-way delay: 76.249 ms  
Loss rate: 0.88%  
-- Flow 1:  
Average throughput: 53.37 Mbit/s  
95th percentile per-packet one-way delay: 74.665 ms  
Loss rate: 0.51%  
-- Flow 2:  
Average throughput: 37.61 Mbit/s  
95th percentile per-packet one-way delay: 76.673 ms  
Loss rate: 0.97%  
-- Flow 3:  
Average throughput: 28.76 Mbit/s  
95th percentile per-packet one-way delay: 79.506 ms  
Loss rate: 2.72%

# Run 1: Report of TCP BBR — Data Link

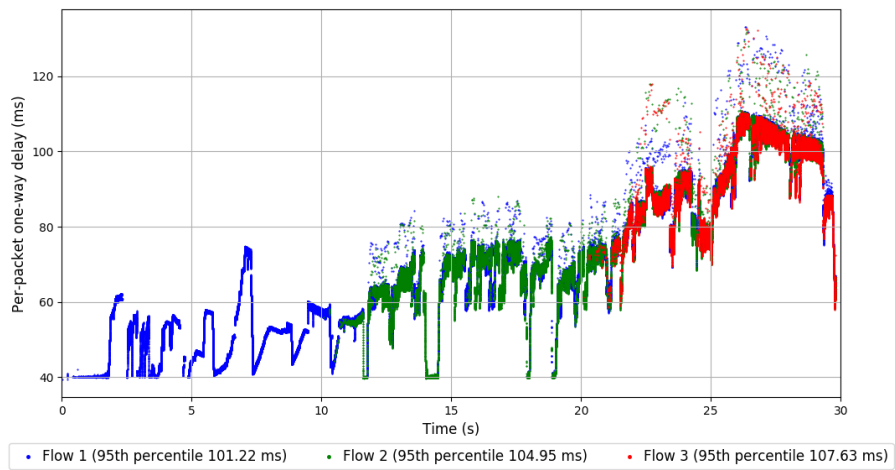
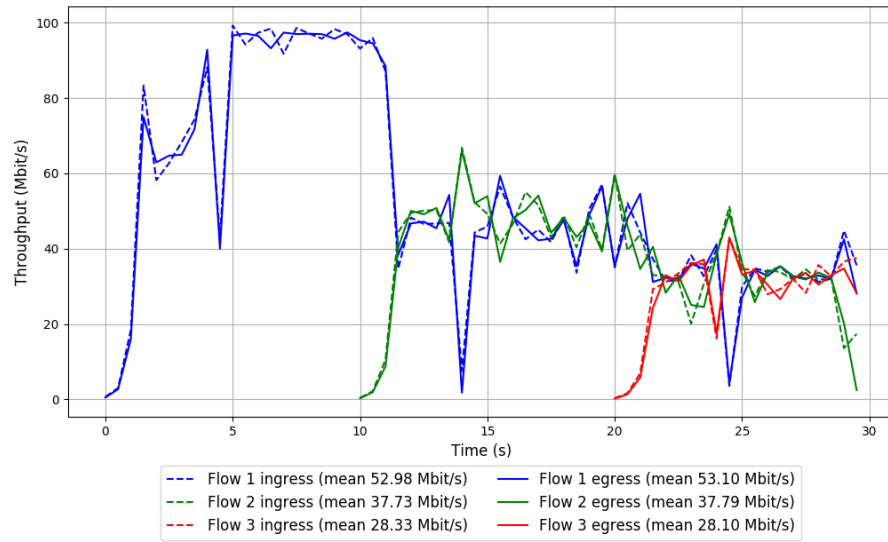


Run 2: Statistics of TCP BBR

Start at: 2018-04-24 17:37:39  
End at: 2018-04-24 17:38:09  
Local clock offset: -1.784 ms  
Remote clock offset: -3.271 ms

# Below is generated by plot.py at 2018-04-25 00:41:01  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 87.27 Mbit/s  
95th percentile per-packet one-way delay: 104.351 ms  
Loss rate: 0.94%  
-- Flow 1:  
Average throughput: 53.10 Mbit/s  
95th percentile per-packet one-way delay: 101.224 ms  
Loss rate: 0.53%  
-- Flow 2:  
Average throughput: 37.79 Mbit/s  
95th percentile per-packet one-way delay: 104.951 ms  
Loss rate: 1.00%  
-- Flow 3:  
Average throughput: 28.10 Mbit/s  
95th percentile per-packet one-way delay: 107.632 ms  
Loss rate: 3.12%

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



Run 3: Statistics of TCP BBR

Start at: 2018-04-24 18:00:44

End at: 2018-04-24 18:01:14

Local clock offset: -5.917 ms

Remote clock offset: -2.15 ms

# Below is generated by plot.py at 2018-04-25 00:41:02

# Datalink statistics

-- Total of 3 flows:

Average throughput: 88.99 Mbit/s

95th percentile per-packet one-way delay: 75.986 ms

Loss rate: 0.84%

-- Flow 1:

Average throughput: 54.11 Mbit/s

95th percentile per-packet one-way delay: 74.543 ms

Loss rate: 0.45%

-- Flow 2:

Average throughput: 38.96 Mbit/s

95th percentile per-packet one-way delay: 76.331 ms

Loss rate: 0.96%

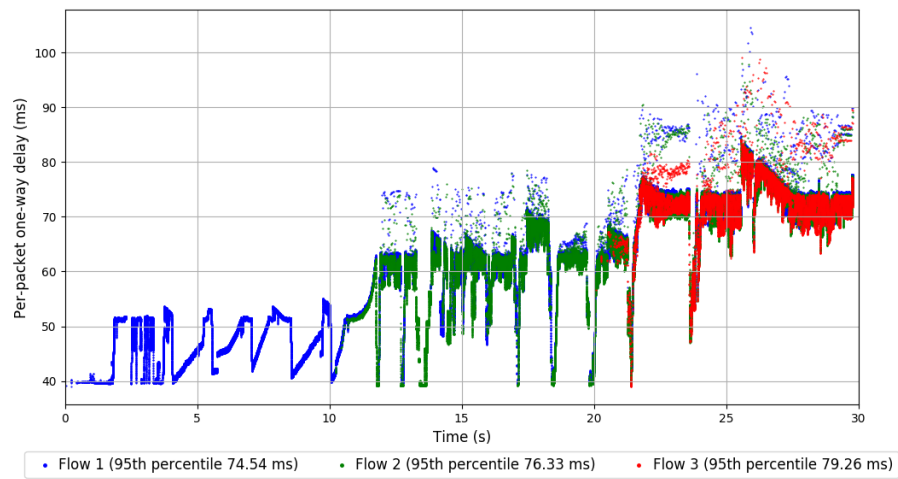
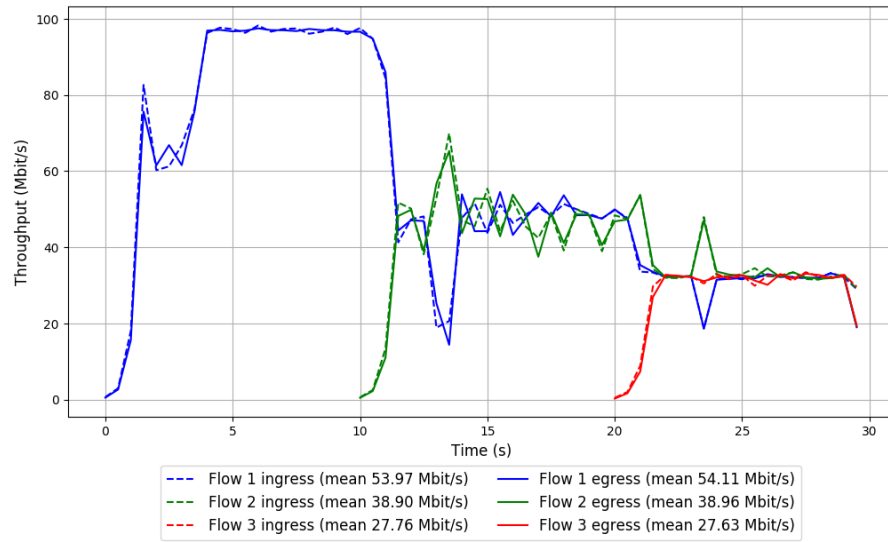
-- Flow 3:

Average throughput: 27.63 Mbit/s

95th percentile per-packet one-way delay: 79.259 ms

Loss rate: 2.74%

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

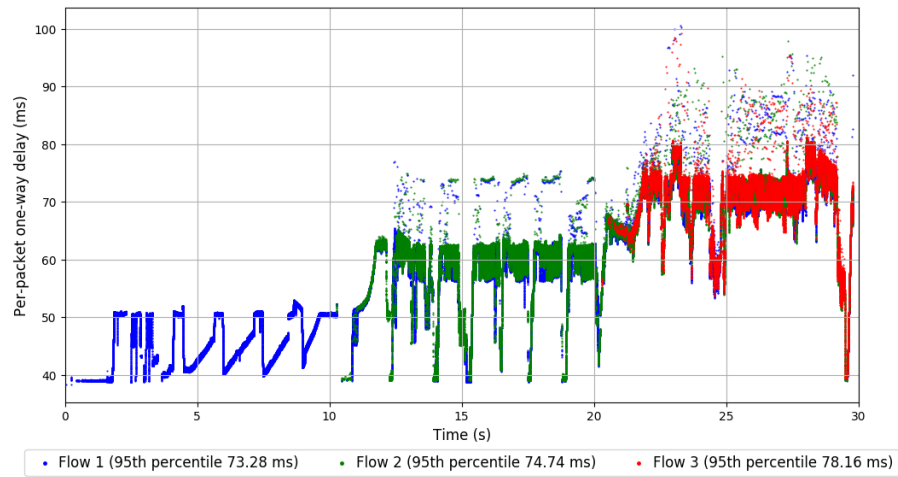
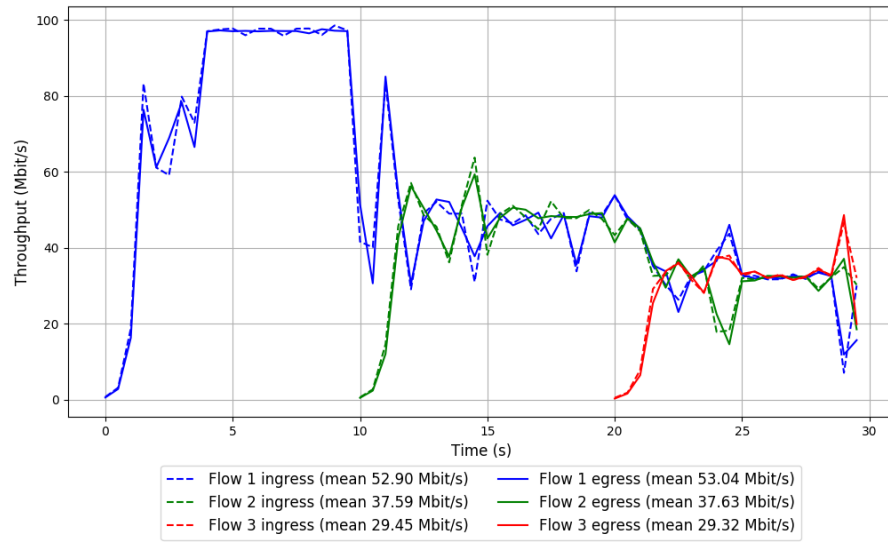


Run 4: Statistics of TCP BBR

Start at: 2018-04-24 18:23:37  
End at: 2018-04-24 18:24:07  
Local clock offset: -1.613 ms  
Remote clock offset: -1.304 ms

# Below is generated by plot.py at 2018-04-25 00:41:02  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 87.57 Mbit/s  
95th percentile per-packet one-way delay: 74.459 ms  
Loss rate: 0.83%  
-- Flow 1:  
Average throughput: 53.04 Mbit/s  
95th percentile per-packet one-way delay: 73.282 ms  
Loss rate: 0.45%  
-- Flow 2:  
Average throughput: 37.63 Mbit/s  
95th percentile per-packet one-way delay: 74.742 ms  
Loss rate: 0.98%  
-- Flow 3:  
Average throughput: 29.32 Mbit/s  
95th percentile per-packet one-way delay: 78.155 ms  
Loss rate: 2.53%

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



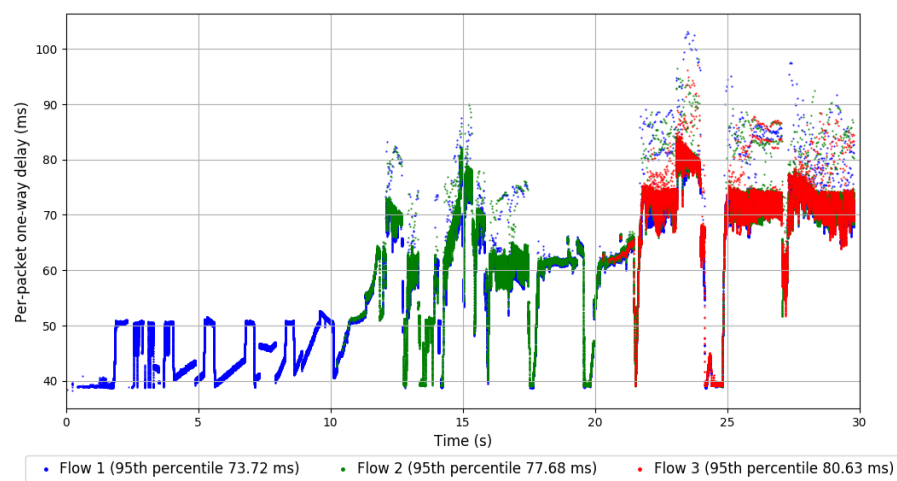
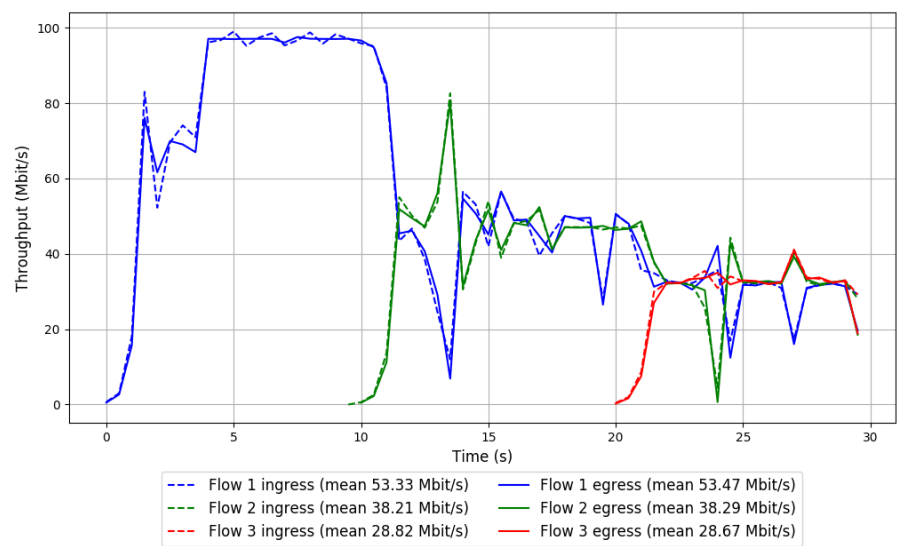


Run 5: Statistics of TCP BBR

Start at: 2018-04-24 18:46:30  
End at: 2018-04-24 18:47:01  
Local clock offset: 0.474 ms  
Remote clock offset: -1.438 ms

# Below is generated by plot.py at 2018-04-25 00:41:02  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 88.22 Mbit/s  
95th percentile per-packet one-way delay: 75.998 ms  
Loss rate: 0.82%  
-- Flow 1:  
Average throughput: 53.47 Mbit/s  
95th percentile per-packet one-way delay: 73.715 ms  
Loss rate: 0.44%  
-- Flow 2:  
Average throughput: 38.29 Mbit/s  
95th percentile per-packet one-way delay: 77.681 ms  
Loss rate: 0.92%  
-- Flow 3:  
Average throughput: 28.67 Mbit/s  
95th percentile per-packet one-way delay: 80.634 ms  
Loss rate: 2.64%

Run 5: Report of TCP BBR — Data Link

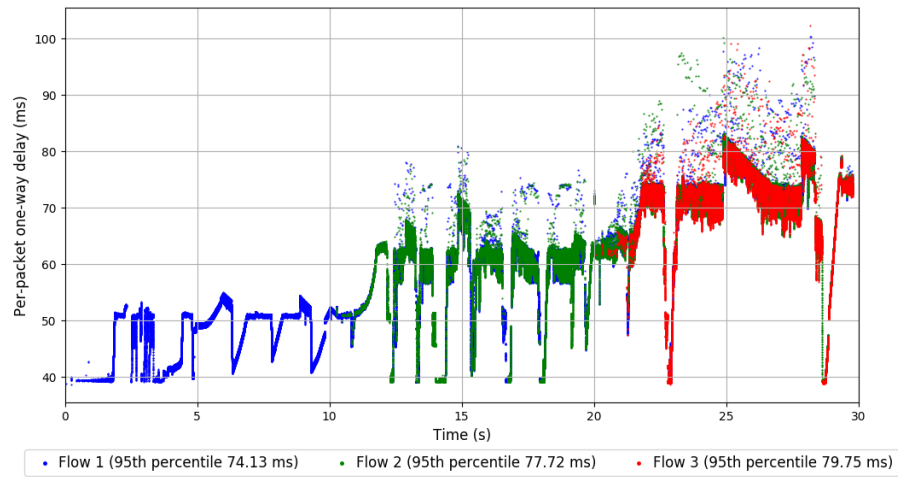
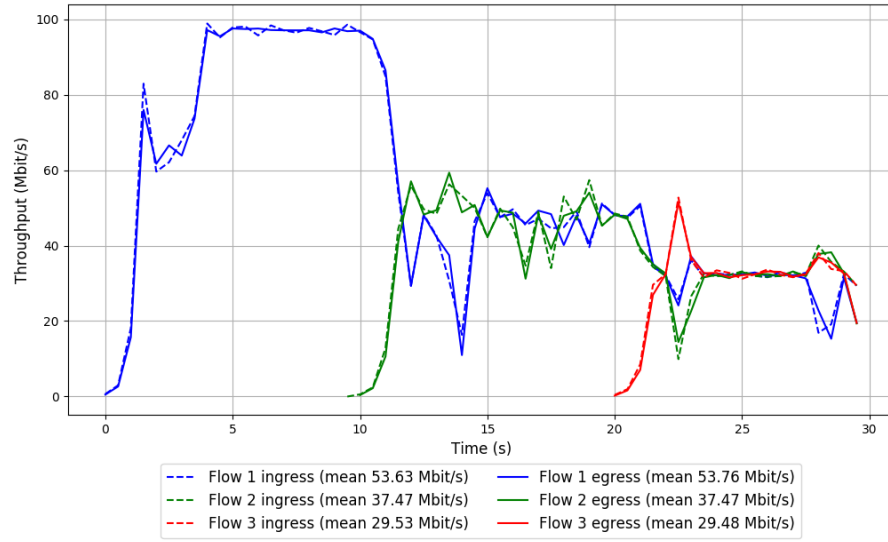


Run 6: Statistics of TCP BBR

Start at: 2018-04-24 19:09:25  
End at: 2018-04-24 19:09:55  
Local clock offset: 3.057 ms  
Remote clock offset: -1.651 ms

# Below is generated by plot.py at 2018-04-25 00:41:03  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 88.26 Mbit/s  
95th percentile per-packet one-way delay: 76.972 ms  
Loss rate: 0.87%  
-- Flow 1:  
Average throughput: 53.76 Mbit/s  
95th percentile per-packet one-way delay: 74.130 ms  
Loss rate: 0.46%  
-- Flow 2:  
Average throughput: 37.47 Mbit/s  
95th percentile per-packet one-way delay: 77.722 ms  
Loss rate: 1.12%  
-- Flow 3:  
Average throughput: 29.48 Mbit/s  
95th percentile per-packet one-way delay: 79.753 ms  
Loss rate: 2.50%

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

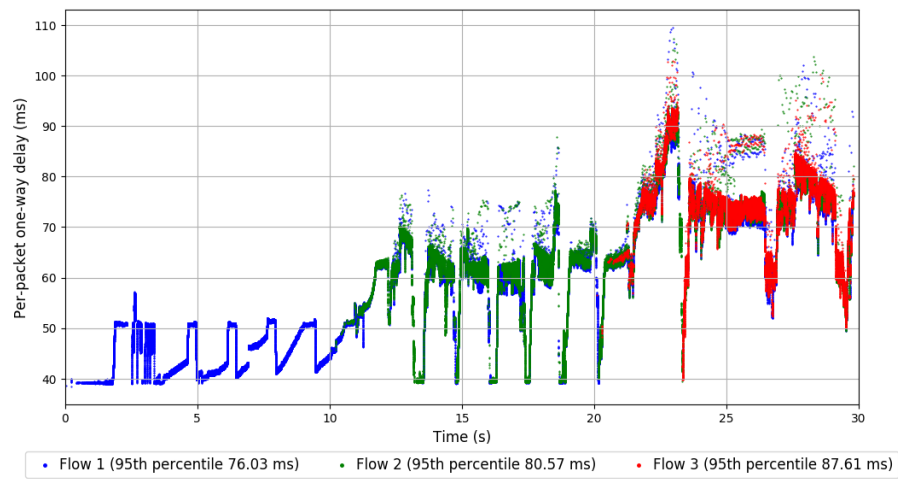
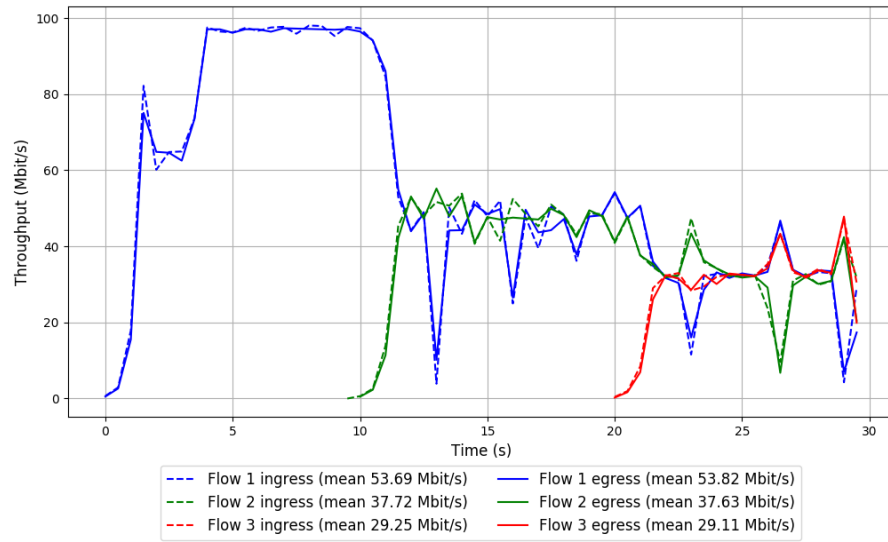


Run 7: Statistics of TCP BBR

Start at: 2018-04-24 19:32:15  
End at: 2018-04-24 19:32:45  
Local clock offset: -1.714 ms  
Remote clock offset: -0.927 ms

# Below is generated by plot.py at 2018-04-25 00:41:03  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 88.29 Mbit/s  
95th percentile per-packet one-way delay: 79.870 ms  
Loss rate: 0.94%  
-- Flow 1:  
Average throughput: 53.82 Mbit/s  
95th percentile per-packet one-way delay: 76.031 ms  
Loss rate: 0.47%  
-- Flow 2:  
Average throughput: 37.63 Mbit/s  
95th percentile per-packet one-way delay: 80.566 ms  
Loss rate: 1.25%  
-- Flow 3:  
Average throughput: 29.11 Mbit/s  
95th percentile per-packet one-way delay: 87.607 ms  
Loss rate: 2.68%

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

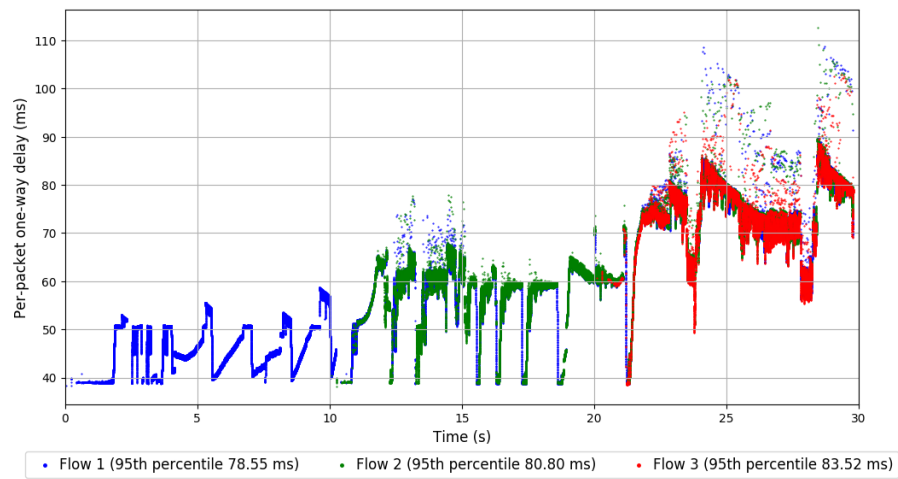
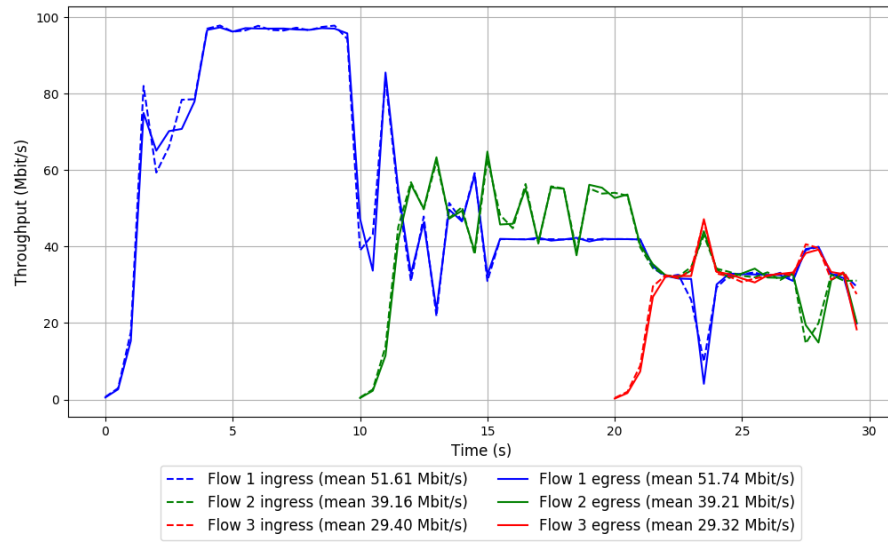


Run 8: Statistics of TCP BBR

Start at: 2018-04-24 19:55:06  
End at: 2018-04-24 19:55:36  
Local clock offset: -0.76 ms  
Remote clock offset: -0.753 ms

# Below is generated by plot.py at 2018-04-25 00:41:03  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 87.26 Mbit/s  
95th percentile per-packet one-way delay: 80.571 ms  
Loss rate: 0.87%  
-- Flow 1:  
Average throughput: 51.74 Mbit/s  
95th percentile per-packet one-way delay: 78.547 ms  
Loss rate: 0.50%  
-- Flow 2:  
Average throughput: 39.21 Mbit/s  
95th percentile per-packet one-way delay: 80.799 ms  
Loss rate: 1.00%  
-- Flow 3:  
Average throughput: 29.32 Mbit/s  
95th percentile per-packet one-way delay: 83.521 ms  
Loss rate: 2.47%

## Run 8: Report of TCP BBR — Data Link



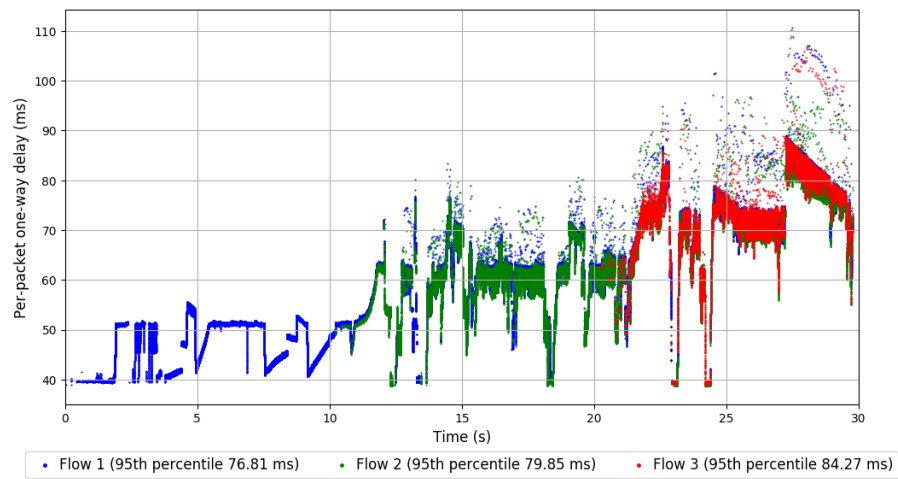
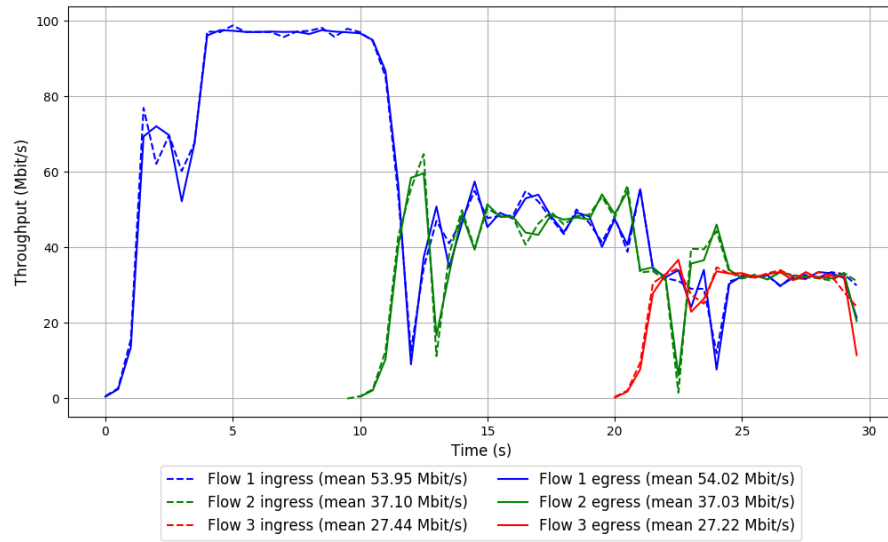


Run 9: Statistics of TCP BBR

Start at: 2018-04-24 20:18:13  
End at: 2018-04-24 20:18:43  
Local clock offset: 5.081 ms  
Remote clock offset: -0.719 ms

# Below is generated by plot.py at 2018-04-25 00:42:17  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 87.48 Mbit/s  
95th percentile per-packet one-way delay: 80.326 ms  
Loss rate: 1.00%  
-- Flow 1:  
Average throughput: 54.02 Mbit/s  
95th percentile per-packet one-way delay: 76.815 ms  
Loss rate: 0.58%  
-- Flow 2:  
Average throughput: 37.03 Mbit/s  
95th percentile per-packet one-way delay: 79.848 ms  
Loss rate: 1.15%  
-- Flow 3:  
Average throughput: 27.22 Mbit/s  
95th percentile per-packet one-way delay: 84.268 ms  
Loss rate: 3.07%

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

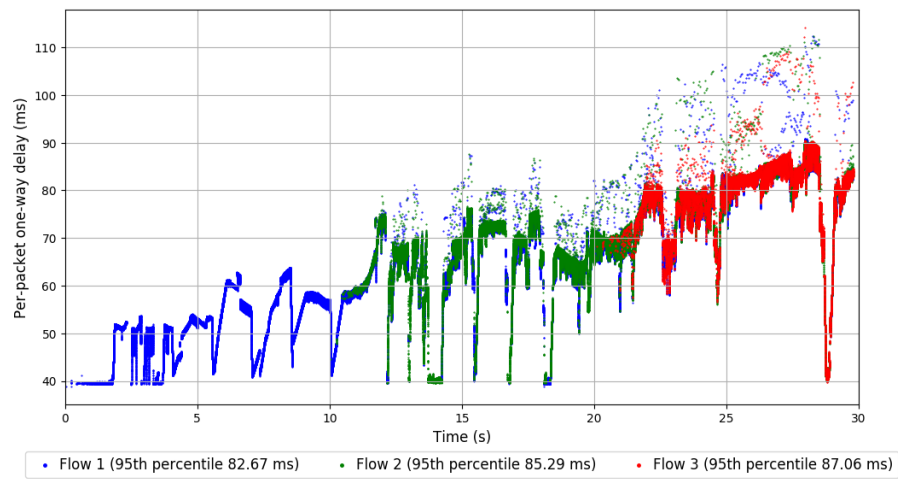
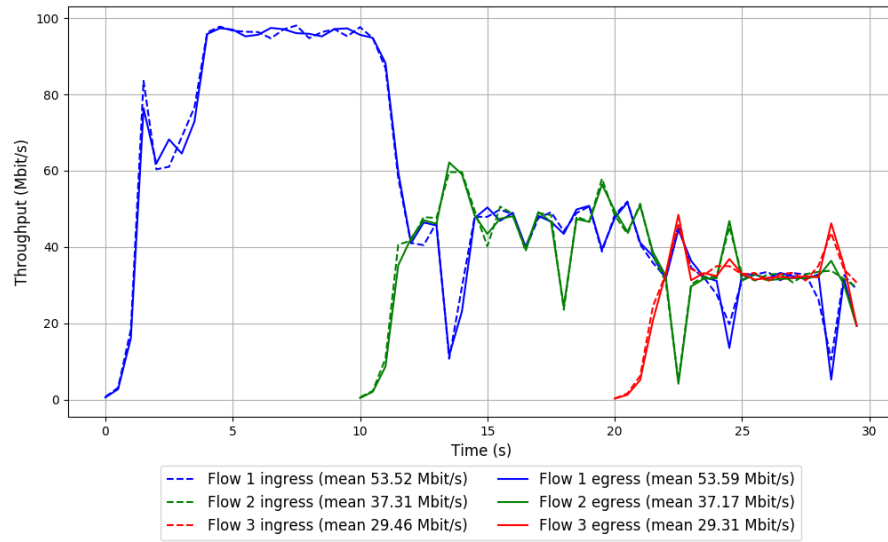


Run 10: Statistics of TCP BBR

Start at: 2018-04-24 20:41:05  
End at: 2018-04-24 20:41:35  
Local clock offset: 3.964 ms  
Remote clock offset: -0.568 ms

# Below is generated by plot.py at 2018-04-25 00:42:23  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 87.76 Mbit/s  
95th percentile per-packet one-way delay: 84.605 ms  
Loss rate: 1.13%  
-- Flow 1:  
Average throughput: 53.59 Mbit/s  
95th percentile per-packet one-way delay: 82.671 ms  
Loss rate: 0.62%  
-- Flow 2:  
Average throughput: 37.17 Mbit/s  
95th percentile per-packet one-way delay: 85.294 ms  
Loss rate: 1.46%  
-- Flow 3:  
Average throughput: 29.31 Mbit/s  
95th percentile per-packet one-way delay: 87.061 ms  
Loss rate: 3.05%

# Run 10: Report of TCP BBR — Data Link

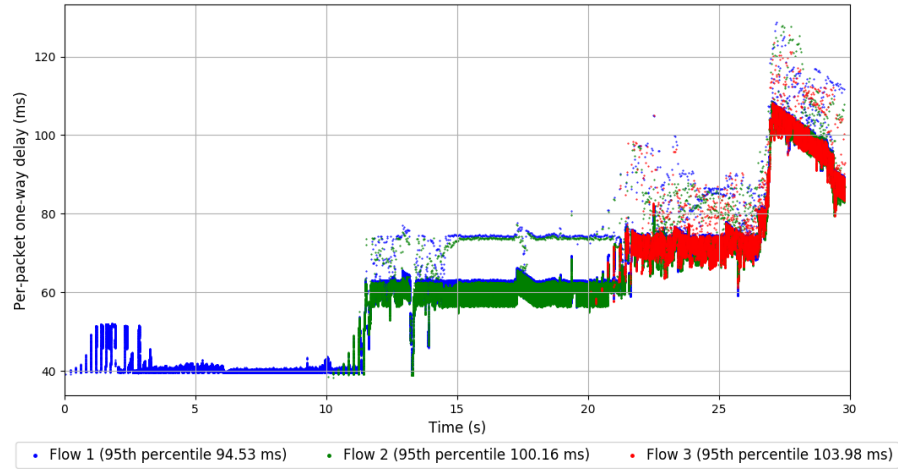
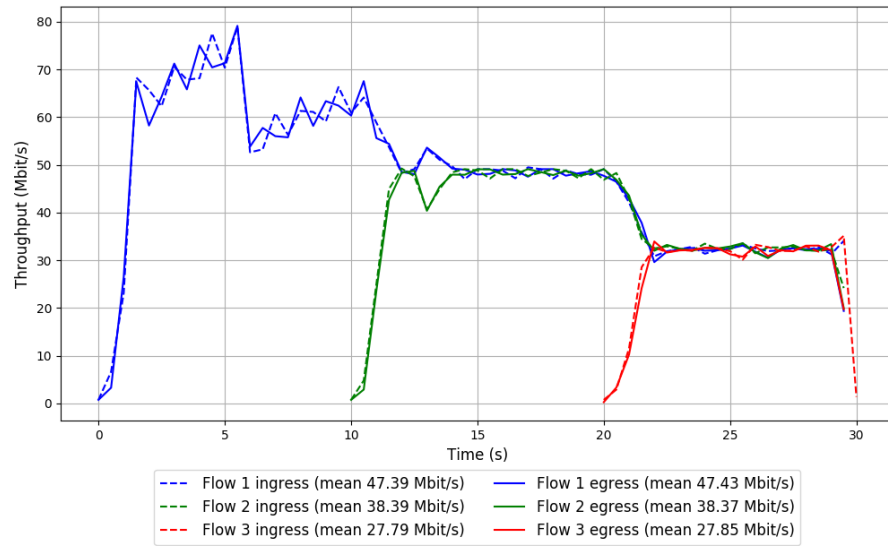


Run 1: Statistics of TCP Cubic

Start at: 2018-04-24 17:09:25  
End at: 2018-04-24 17:09:55  
Local clock offset: -2.317 ms  
Remote clock offset: -6.279 ms

# Below is generated by plot.py at 2018-04-25 00:42:23  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 81.91 Mbit/s  
95th percentile per-packet one-way delay: 99.644 ms  
Loss rate: 1.08%  
-- Flow 1:  
Average throughput: 47.43 Mbit/s  
95th percentile per-packet one-way delay: 94.529 ms  
Loss rate: 0.73%  
-- Flow 2:  
Average throughput: 38.37 Mbit/s  
95th percentile per-packet one-way delay: 100.164 ms  
Loss rate: 0.64%  
-- Flow 3:  
Average throughput: 27.85 Mbit/s  
95th percentile per-packet one-way delay: 103.982 ms  
Loss rate: 4.03%

# Run 1: Report of TCP Cubic — Data Link

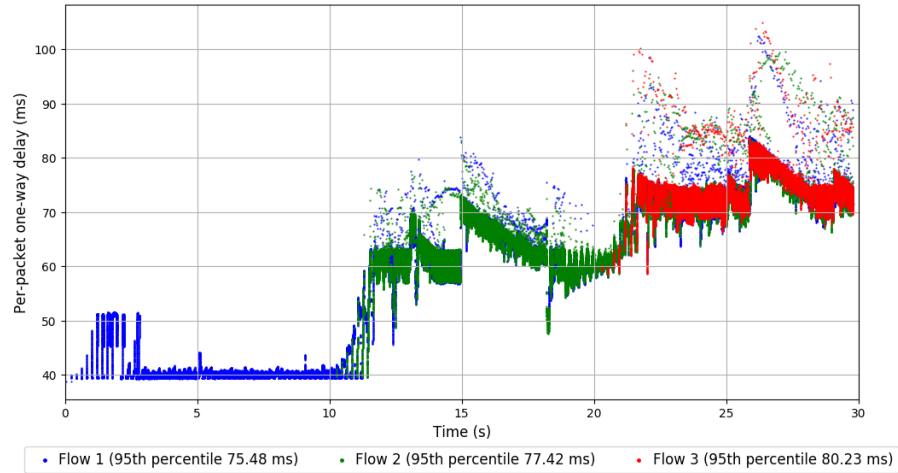
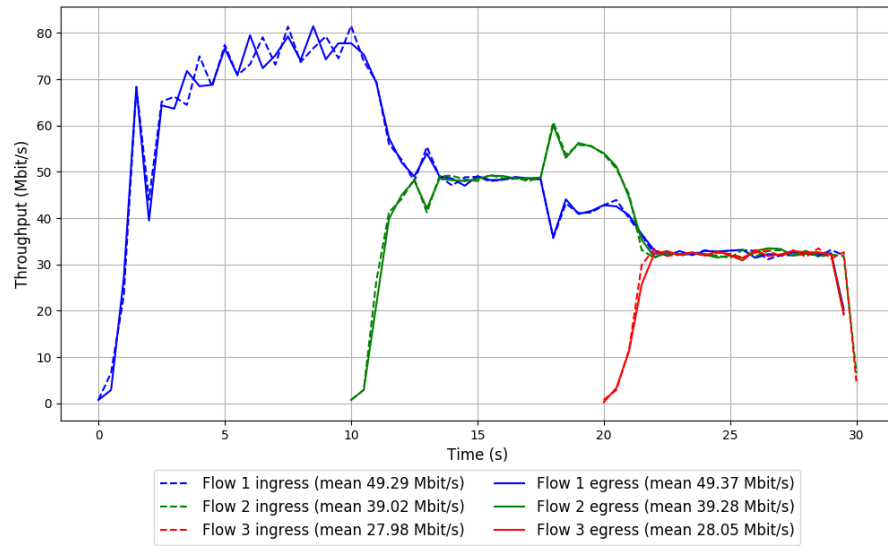


Run 2: Statistics of TCP Cubic

Start at: 2018-04-24 17:32:17  
End at: 2018-04-24 17:32:47  
Local clock offset: -0.768 ms  
Remote clock offset: -4.971 ms

# Below is generated by plot.py at 2018-04-25 00:42:23  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 84.57 Mbit/s  
95th percentile per-packet one-way delay: 77.360 ms  
Loss rate: 1.23%  
-- Flow 1:  
Average throughput: 49.37 Mbit/s  
95th percentile per-packet one-way delay: 75.476 ms  
Loss rate: 0.57%  
-- Flow 2:  
Average throughput: 39.28 Mbit/s  
95th percentile per-packet one-way delay: 77.421 ms  
Loss rate: 1.47%  
-- Flow 3:  
Average throughput: 28.05 Mbit/s  
95th percentile per-packet one-way delay: 80.235 ms  
Loss rate: 4.00%

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



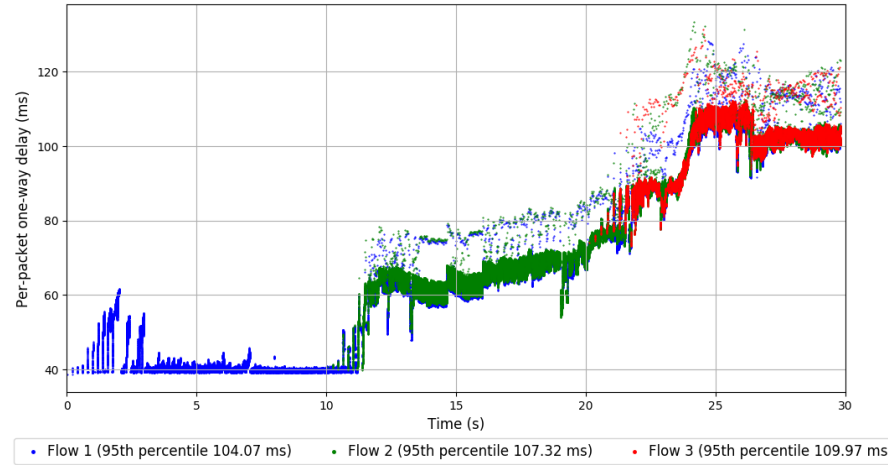
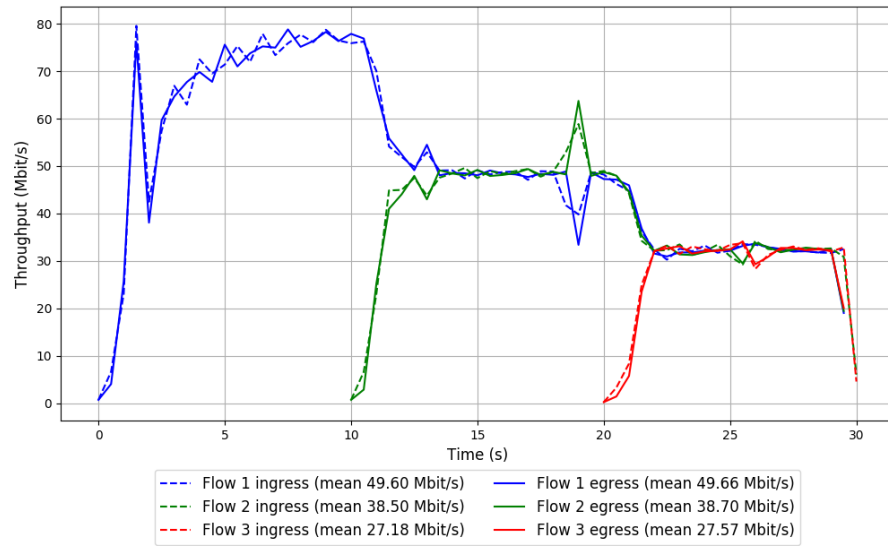


Run 3: Statistics of TCP Cubic

Start at: 2018-04-24 17:55:22  
End at: 2018-04-24 17:55:52  
Local clock offset: -5.157 ms  
Remote clock offset: -2.044 ms

# Below is generated by plot.py at 2018-04-25 00:42:23  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 84.30 Mbit/s  
95th percentile per-packet one-way delay: 107.114 ms  
Loss rate: 1.33%  
-- Flow 1:  
Average throughput: 49.66 Mbit/s  
95th percentile per-packet one-way delay: 104.074 ms  
Loss rate: 0.65%  
-- Flow 2:  
Average throughput: 38.70 Mbit/s  
95th percentile per-packet one-way delay: 107.319 ms  
Loss rate: 1.57%  
-- Flow 3:  
Average throughput: 27.57 Mbit/s  
95th percentile per-packet one-way delay: 109.966 ms  
Loss rate: 4.32%

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

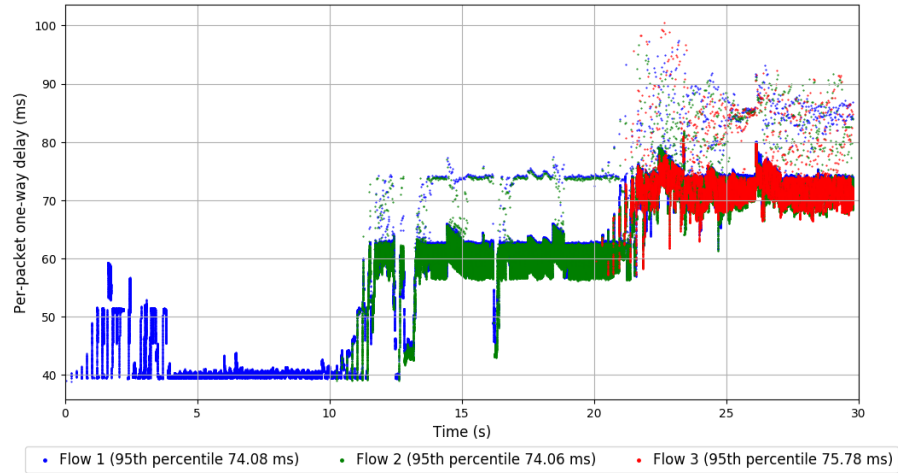
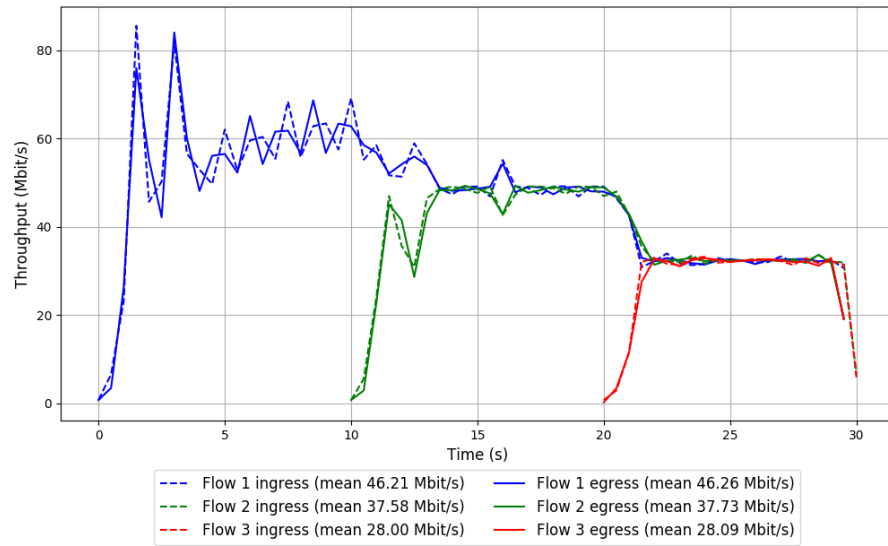


Run 4: Statistics of TCP Cubic

Start at: 2018-04-24 18:18:15  
End at: 2018-04-24 18:18:45  
Local clock offset: -2.645 ms  
Remote clock offset: -1.335 ms

# Below is generated by plot.py at 2018-04-25 00:42:23  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 80.45 Mbit/s  
95th percentile per-packet one-way delay: 74.314 ms  
Loss rate: 1.29%  
-- Flow 1:  
Average throughput: 46.26 Mbit/s  
95th percentile per-packet one-way delay: 74.082 ms  
Loss rate: 0.58%  
-- Flow 2:  
Average throughput: 37.73 Mbit/s  
95th percentile per-packet one-way delay: 74.064 ms  
Loss rate: 1.58%  
-- Flow 3:  
Average throughput: 28.09 Mbit/s  
95th percentile per-packet one-way delay: 75.784 ms  
Loss rate: 4.00%

# Run 4: Report of TCP Cubic — Data Link

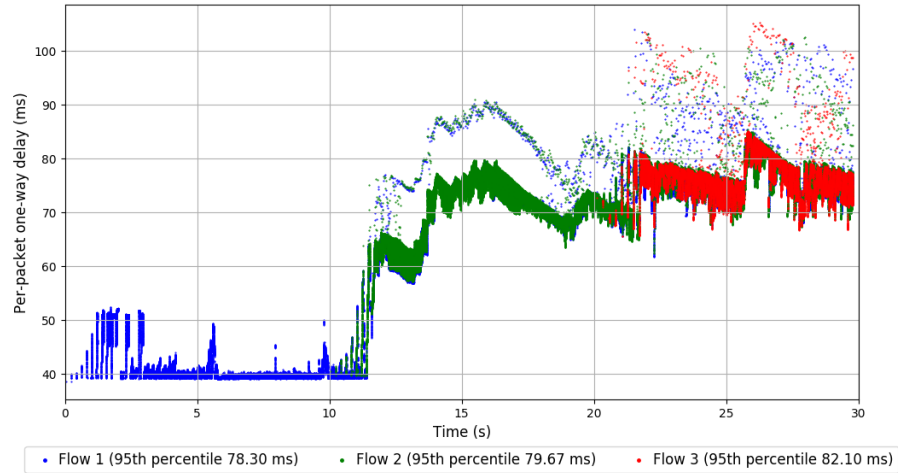
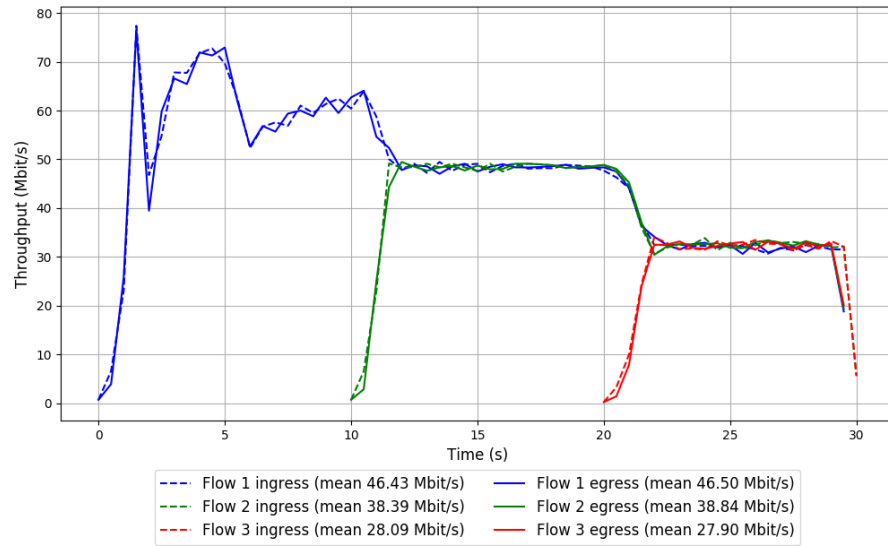


Run 5: Statistics of TCP Cubic

Start at: 2018-04-24 18:41:10  
End at: 2018-04-24 18:41:40  
Local clock offset: -0.5 ms  
Remote clock offset: -1.474 ms

# Below is generated by plot.py at 2018-04-25 00:42:23  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 81.33 Mbit/s  
95th percentile per-packet one-way delay: 79.501 ms  
Loss rate: 1.29%  
-- Flow 1:  
Average throughput: 46.50 Mbit/s  
95th percentile per-packet one-way delay: 78.304 ms  
Loss rate: 0.64%  
-- Flow 2:  
Average throughput: 38.84 Mbit/s  
95th percentile per-packet one-way delay: 79.668 ms  
Loss rate: 1.47%  
-- Flow 3:  
Average throughput: 27.90 Mbit/s  
95th percentile per-packet one-way delay: 82.096 ms  
Loss rate: 4.02%

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



Run 6: Statistics of TCP Cubic

Start at: 2018-04-24 19:04:03

End at: 2018-04-24 19:04:33

Local clock offset: 2.778 ms

Remote clock offset: -1.65 ms

# Below is generated by plot.py at 2018-04-25 00:42:24

# Datalink statistics

-- Total of 3 flows:

Average throughput: 84.58 Mbit/s

95th percentile per-packet one-way delay: 80.846 ms

Loss rate: 1.23%

-- Flow 1:

Average throughput: 49.71 Mbit/s

95th percentile per-packet one-way delay: 78.956 ms

Loss rate: 0.56%

-- Flow 2:

Average throughput: 38.68 Mbit/s

95th percentile per-packet one-way delay: 81.579 ms

Loss rate: 1.49%

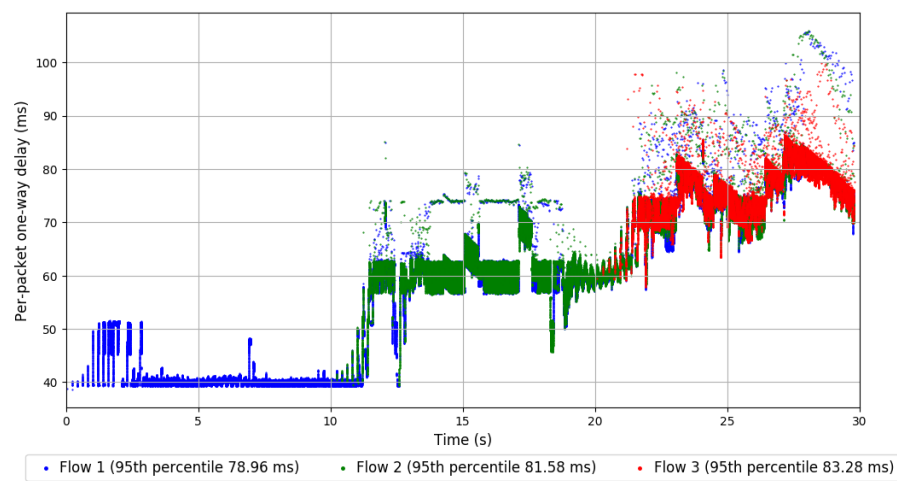
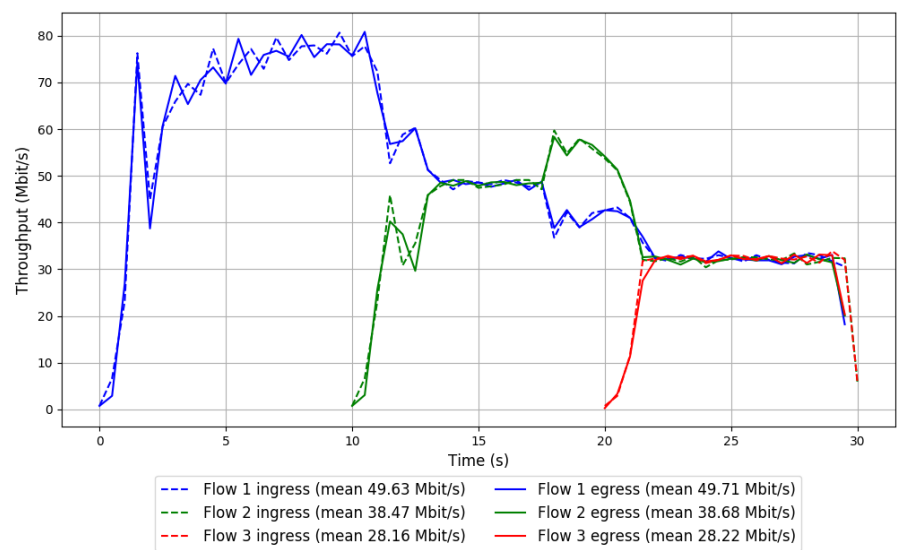
-- Flow 3:

Average throughput: 28.22 Mbit/s

95th percentile per-packet one-way delay: 83.282 ms

Loss rate: 4.00%

Run 6: Report of TCP Cubic — Data Link



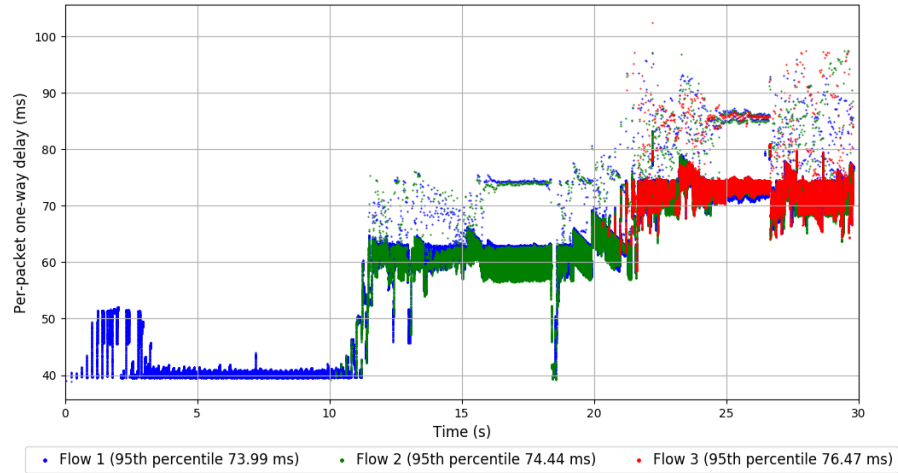
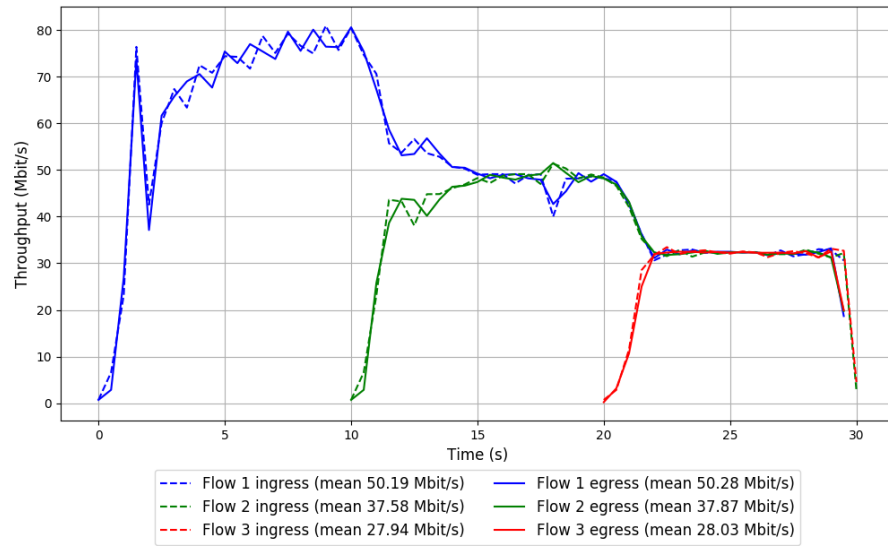


Run 7: Statistics of TCP Cubic

Start at: 2018-04-24 19:26:55  
End at: 2018-04-24 19:27:25  
Local clock offset: -0.652 ms  
Remote clock offset: -1.026 ms

# Below is generated by plot.py at 2018-04-25 00:43:36  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 84.53 Mbit/s  
95th percentile per-packet one-way delay: 74.466 ms  
Loss rate: 1.16%  
-- Flow 1:  
Average throughput: 50.28 Mbit/s  
95th percentile per-packet one-way delay: 73.986 ms  
Loss rate: 0.56%  
-- Flow 2:  
Average throughput: 37.87 Mbit/s  
95th percentile per-packet one-way delay: 74.437 ms  
Loss rate: 1.30%  
-- Flow 3:  
Average throughput: 28.03 Mbit/s  
95th percentile per-packet one-way delay: 76.471 ms  
Loss rate: 3.96%

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



Run 8: Statistics of TCP Cubic

Start at: 2018-04-24 19:49:44

End at: 2018-04-24 19:50:14

Local clock offset: -3.078 ms

Remote clock offset: -0.82 ms

# Below is generated by plot.py at 2018-04-25 00:43:37

# Datalink statistics

-- Total of 3 flows:

Average throughput: 84.57 Mbit/s

95th percentile per-packet one-way delay: 74.772 ms

Loss rate: 1.01%

-- Flow 1:

Average throughput: 50.14 Mbit/s

95th percentile per-packet one-way delay: 73.862 ms

Loss rate: 0.53%

-- Flow 2:

Average throughput: 38.04 Mbit/s

95th percentile per-packet one-way delay: 75.137 ms

Loss rate: 1.30%

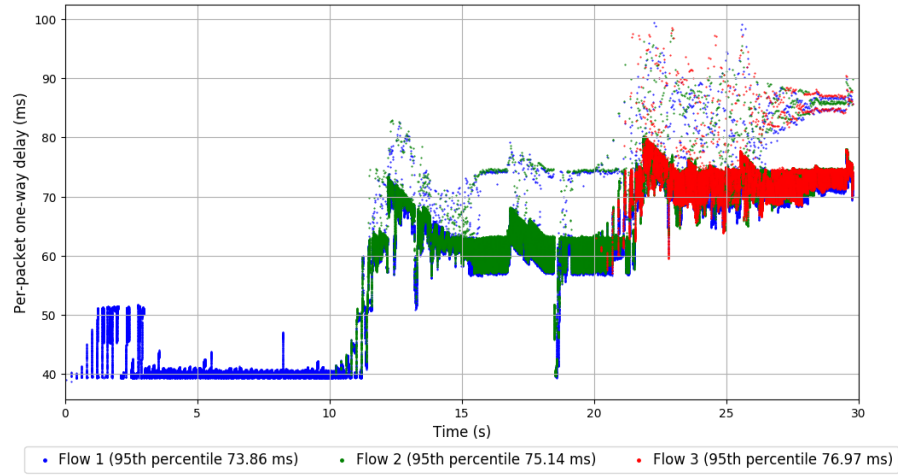
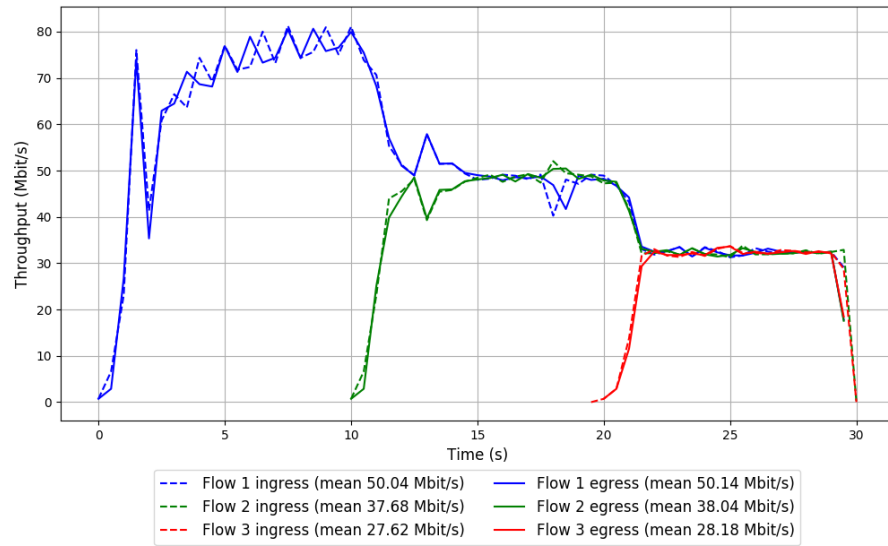
-- Flow 3:

Average throughput: 28.18 Mbit/s

95th percentile per-packet one-way delay: 76.970 ms

Loss rate: 2.79%

# Run 8: Report of TCP Cubic — Data Link

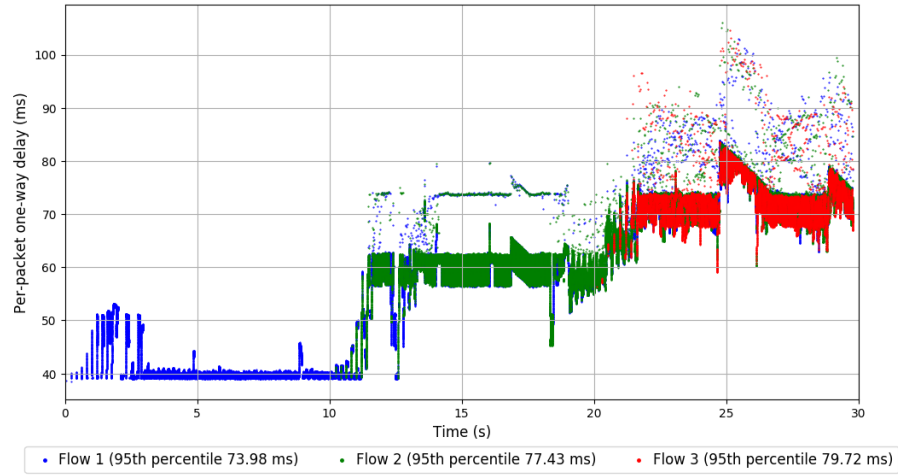
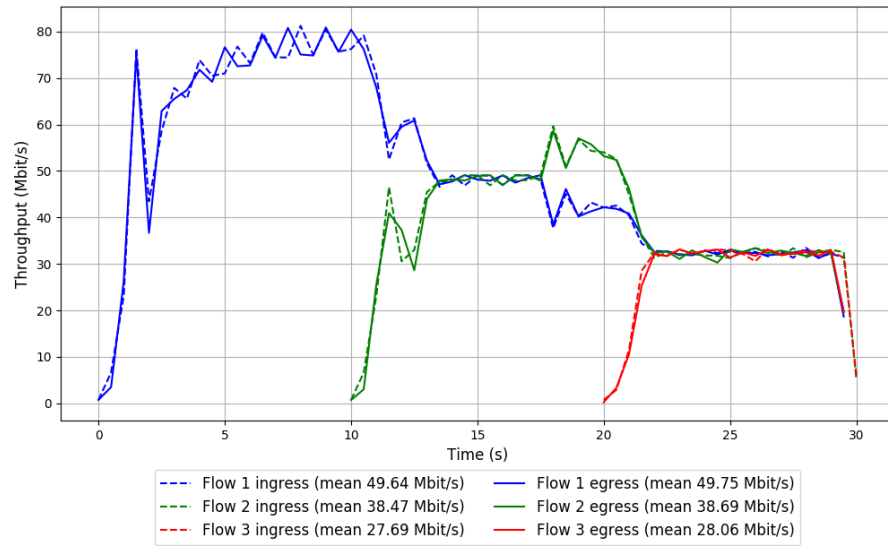


Run 9: Statistics of TCP Cubic

Start at: 2018-04-24 20:12:49  
End at: 2018-04-24 20:13:19  
Local clock offset: 4.401 ms  
Remote clock offset: -0.678 ms

# Below is generated by plot.py at 2018-04-25 00:43:38  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 84.56 Mbit/s  
95th percentile per-packet one-way delay: 76.923 ms  
Loss rate: 1.23%  
-- Flow 1:  
Average throughput: 49.75 Mbit/s  
95th percentile per-packet one-way delay: 73.978 ms  
Loss rate: 0.58%  
-- Flow 2:  
Average throughput: 38.69 Mbit/s  
95th percentile per-packet one-way delay: 77.429 ms  
Loss rate: 1.46%  
-- Flow 3:  
Average throughput: 28.06 Mbit/s  
95th percentile per-packet one-way delay: 79.725 ms  
Loss rate: 4.05%

# Run 9: Report of TCP Cubic — Data Link

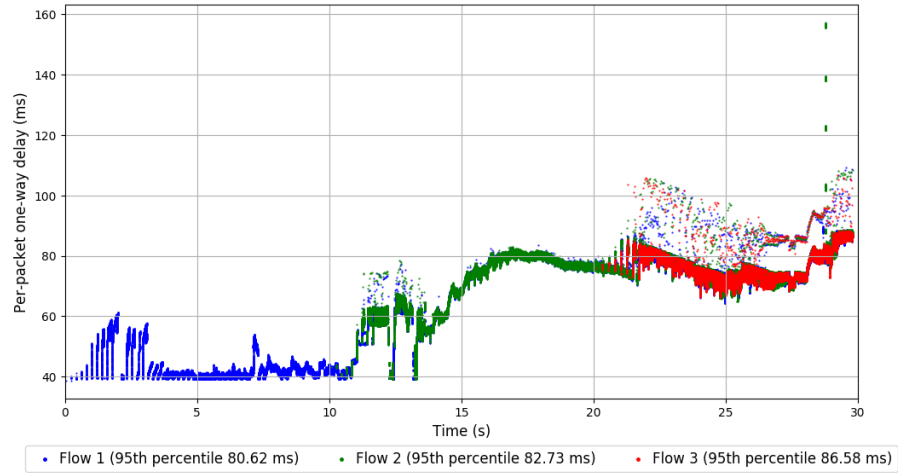
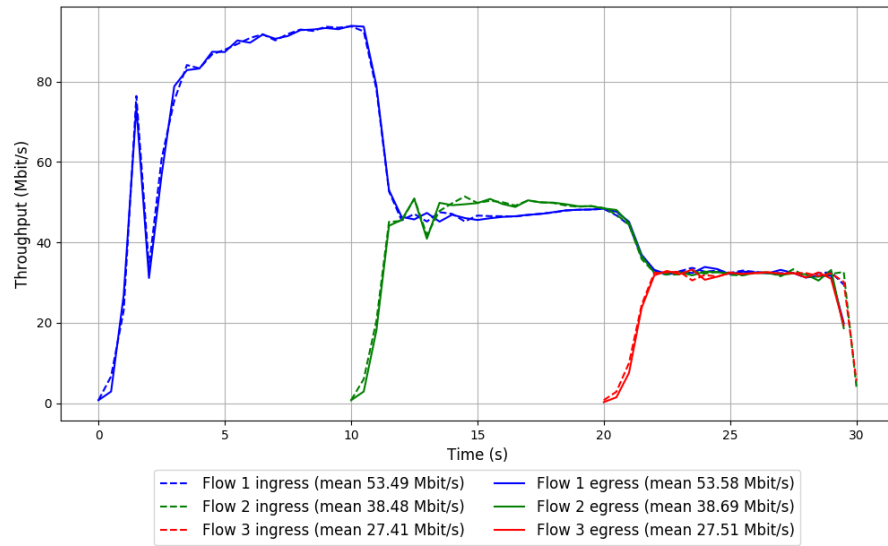


Run 10: Statistics of TCP Cubic

Start at: 2018-04-24 20:35:44  
End at: 2018-04-24 20:36:14  
Local clock offset: 4.116 ms  
Remote clock offset: -0.543 ms

# Below is generated by plot.py at 2018-04-25 00:43:41  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 88.19 Mbit/s  
95th percentile per-packet one-way delay: 81.877 ms  
Loss rate: 1.15%  
-- Flow 1:  
Average throughput: 53.58 Mbit/s  
95th percentile per-packet one-way delay: 80.617 ms  
Loss rate: 0.49%  
-- Flow 2:  
Average throughput: 38.69 Mbit/s  
95th percentile per-packet one-way delay: 82.726 ms  
Loss rate: 1.48%  
-- Flow 3:  
Average throughput: 27.51 Mbit/s  
95th percentile per-packet one-way delay: 86.580 ms  
Loss rate: 4.01%

# Run 10: Report of TCP Cubic — Data Link



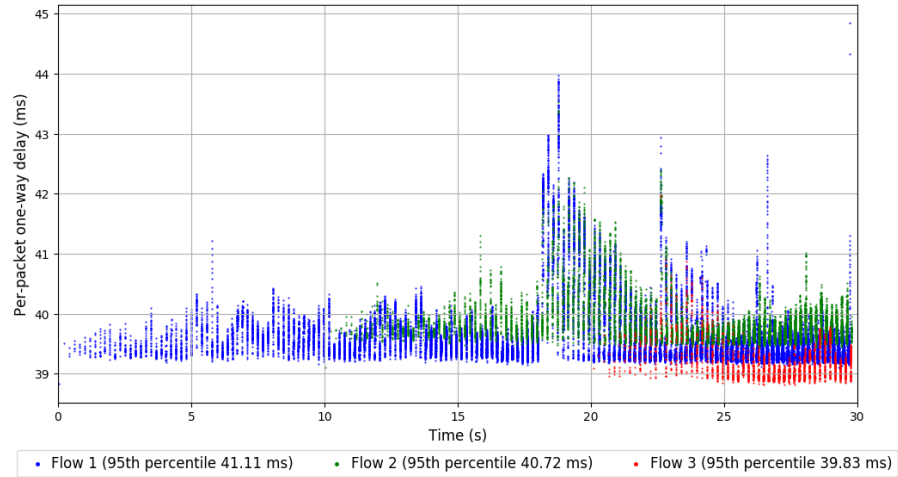
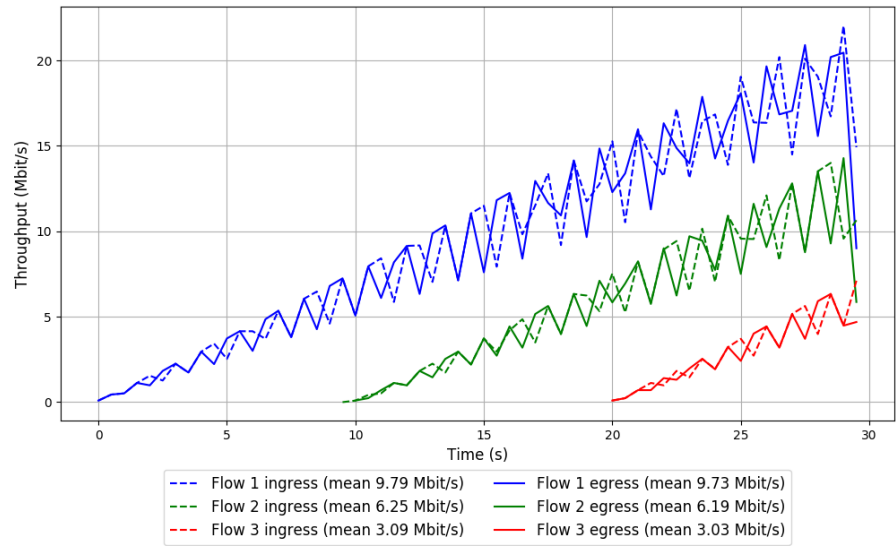


```
Run 1: Statistics of LEDBAT

Start at: 2018-04-24 17:13:27
End at: 2018-04-24 17:13:57
Local clock offset: -1.596 ms
Remote clock offset: -5.887 ms

# Below is generated by plot.py at 2018-04-25 00:43:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 14.80 Mbit/s
95th percentile per-packet one-way delay: 40.926 ms
Loss rate: 1.64%
-- Flow 1:
Average throughput: 9.73 Mbit/s
95th percentile per-packet one-way delay: 41.109 ms
Loss rate: 1.28%
-- Flow 2:
Average throughput: 6.19 Mbit/s
95th percentile per-packet one-way delay: 40.721 ms
Loss rate: 1.92%
-- Flow 3:
Average throughput: 3.03 Mbit/s
95th percentile per-packet one-way delay: 39.828 ms
Loss rate: 3.97%
```

## Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2018-04-24 17:36:21

End at: 2018-04-24 17:36:51

Local clock offset: -1.43 ms

Remote clock offset: -3.58 ms

# Below is generated by plot.py at 2018-04-25 00:43:41

# Datalink statistics

-- Total of 3 flows:

Average throughput: 14.93 Mbit/s

95th percentile per-packet one-way delay: 41.028 ms

Loss rate: 1.65%

-- Flow 1:

Average throughput: 9.72 Mbit/s

95th percentile per-packet one-way delay: 40.923 ms

Loss rate: 1.28%

-- Flow 2:

Average throughput: 6.35 Mbit/s

95th percentile per-packet one-way delay: 41.104 ms

Loss rate: 1.95%

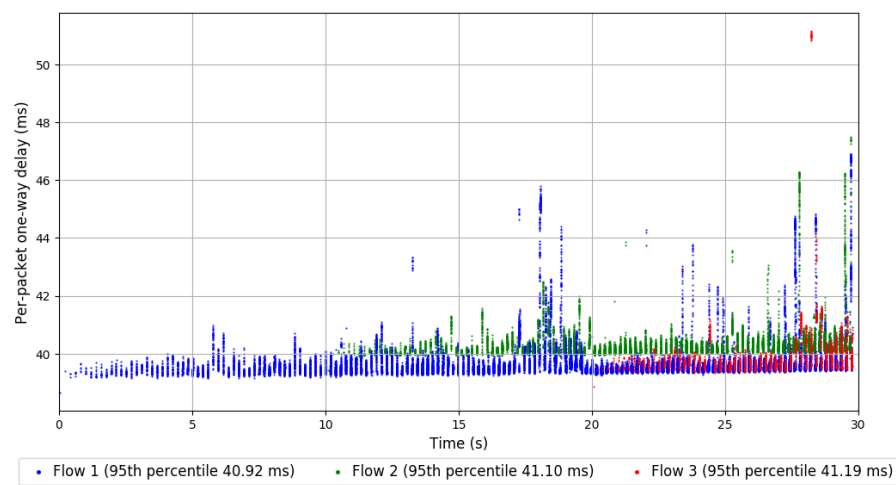
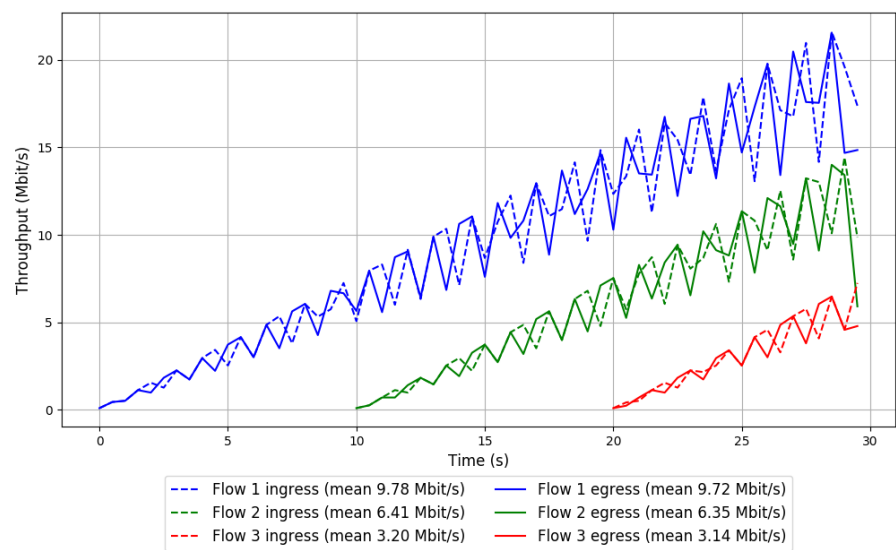
-- Flow 3:

Average throughput: 3.14 Mbit/s

95th percentile per-packet one-way delay: 41.189 ms

Loss rate: 3.89%

Run 2: Report of LEDBAT — Data Link

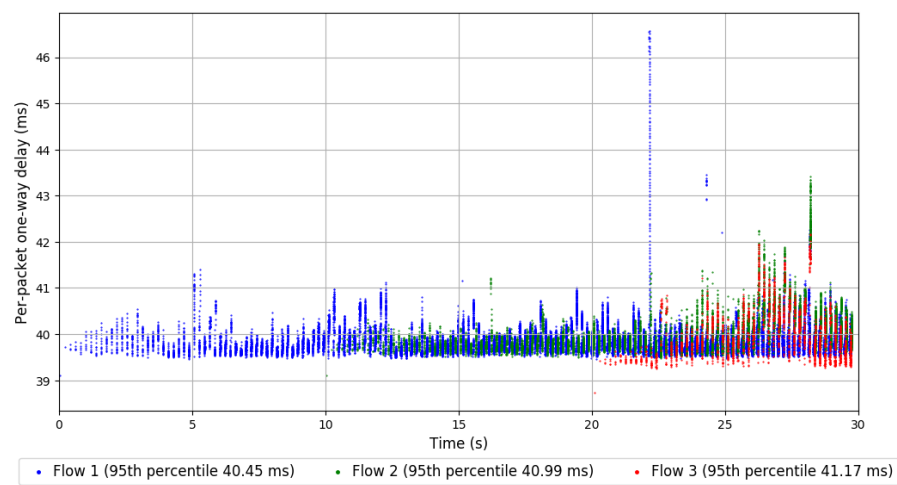
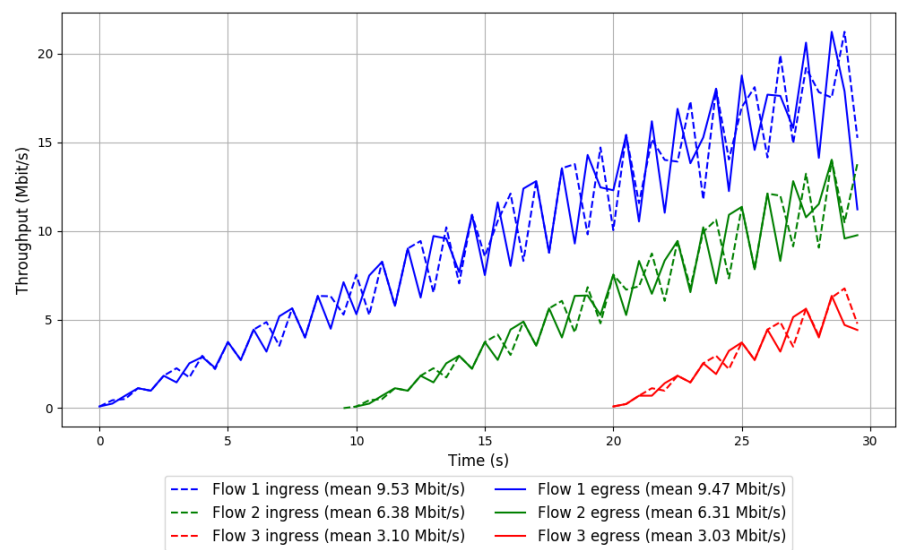


Run 3: Statistics of LEDBAT

Start at: 2018-04-24 17:59:26  
End at: 2018-04-24 17:59:56  
Local clock offset: -5.766 ms  
Remote clock offset: -2.076 ms

# Below is generated by plot.py at 2018-04-25 00:43:41  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 14.64 Mbit/s  
95th percentile per-packet one-way delay: 40.688 ms  
Loss rate: 1.67%  
-- Flow 1:  
Average throughput: 9.47 Mbit/s  
95th percentile per-packet one-way delay: 40.449 ms  
Loss rate: 1.30%  
-- Flow 2:  
Average throughput: 6.31 Mbit/s  
95th percentile per-packet one-way delay: 40.987 ms  
Loss rate: 1.95%  
-- Flow 3:  
Average throughput: 3.03 Mbit/s  
95th percentile per-packet one-way delay: 41.166 ms  
Loss rate: 3.98%

Run 3: Report of LEDBAT — Data Link

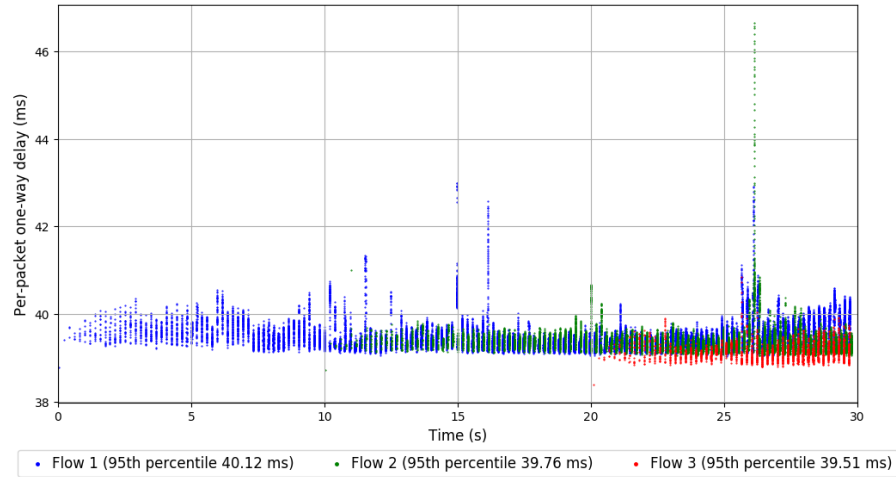
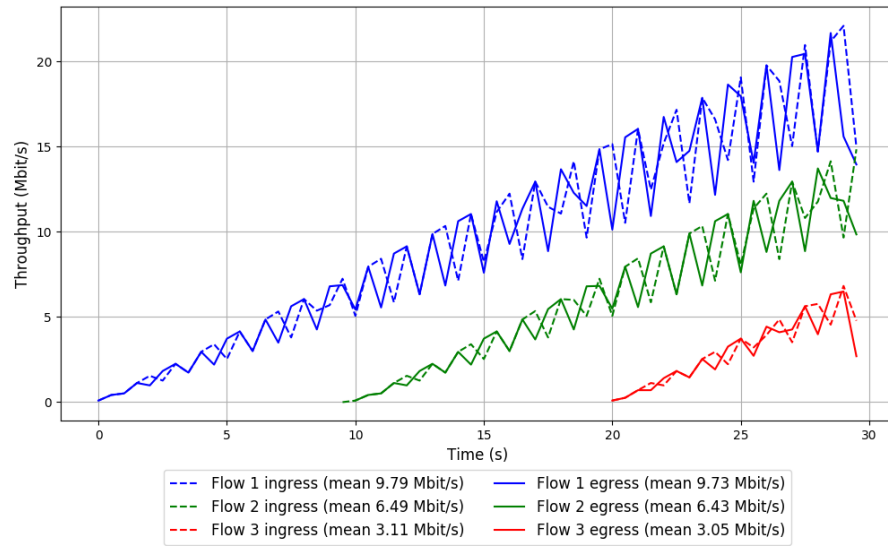


Run 4: Statistics of LEDBAT

Start at: 2018-04-24 18:22:19  
End at: 2018-04-24 18:22:49  
Local clock offset: -1.744 ms  
Remote clock offset: -1.347 ms

# Below is generated by plot.py at 2018-04-25 00:43:41  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 14.97 Mbit/s  
95th percentile per-packet one-way delay: 40.046 ms  
Loss rate: 1.65%  
-- Flow 1:  
Average throughput: 9.73 Mbit/s  
95th percentile per-packet one-way delay: 40.120 ms  
Loss rate: 1.28%  
-- Flow 2:  
Average throughput: 6.43 Mbit/s  
95th percentile per-packet one-way delay: 39.758 ms  
Loss rate: 1.93%  
-- Flow 3:  
Average throughput: 3.05 Mbit/s  
95th percentile per-packet one-way delay: 39.505 ms  
Loss rate: 3.96%

# Run 4: Report of LEDBAT — Data Link



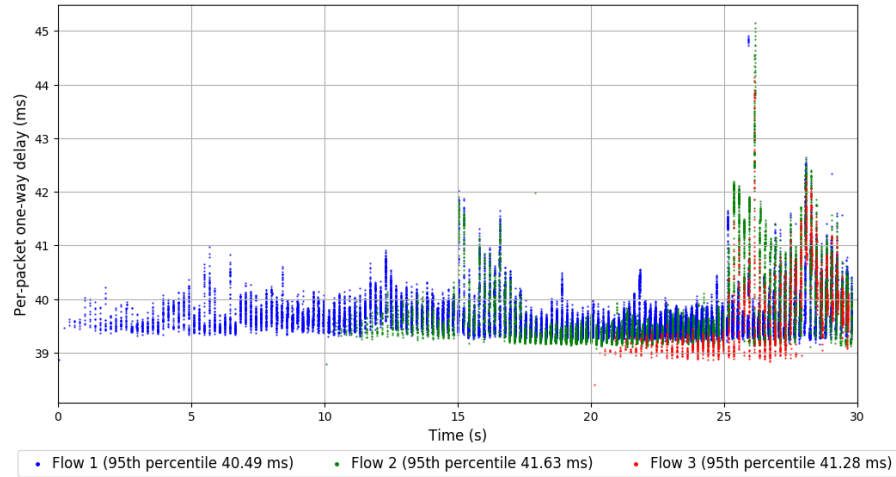
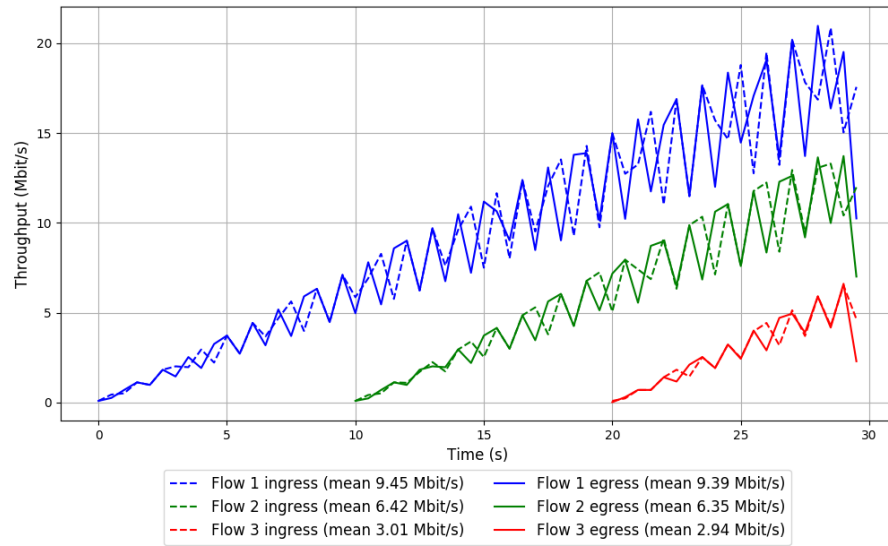


Run 5: Statistics of LEDBAT

Start at: 2018-04-24 18:45:12  
End at: 2018-04-24 18:45:42  
Local clock offset: 0.369 ms  
Remote clock offset: -1.432 ms

# Below is generated by plot.py at 2018-04-25 00:43:41  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 14.55 Mbit/s  
95th percentile per-packet one-way delay: 40.925 ms  
Loss rate: 1.66%  
-- Flow 1:  
Average throughput: 9.39 Mbit/s  
95th percentile per-packet one-way delay: 40.493 ms  
Loss rate: 1.29%  
-- Flow 2:  
Average throughput: 6.35 Mbit/s  
95th percentile per-packet one-way delay: 41.631 ms  
Loss rate: 1.94%  
-- Flow 3:  
Average throughput: 2.94 Mbit/s  
95th percentile per-packet one-way delay: 41.281 ms  
Loss rate: 4.02%

# Run 5: Report of LEDBAT — Data Link

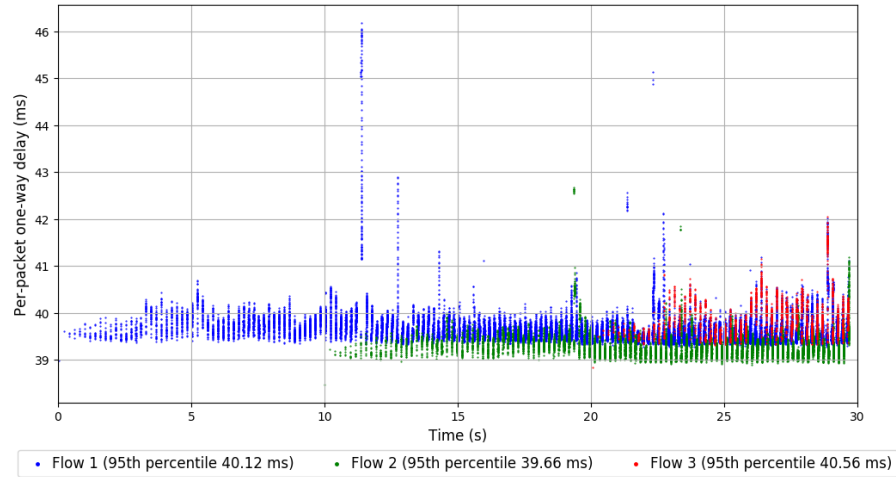
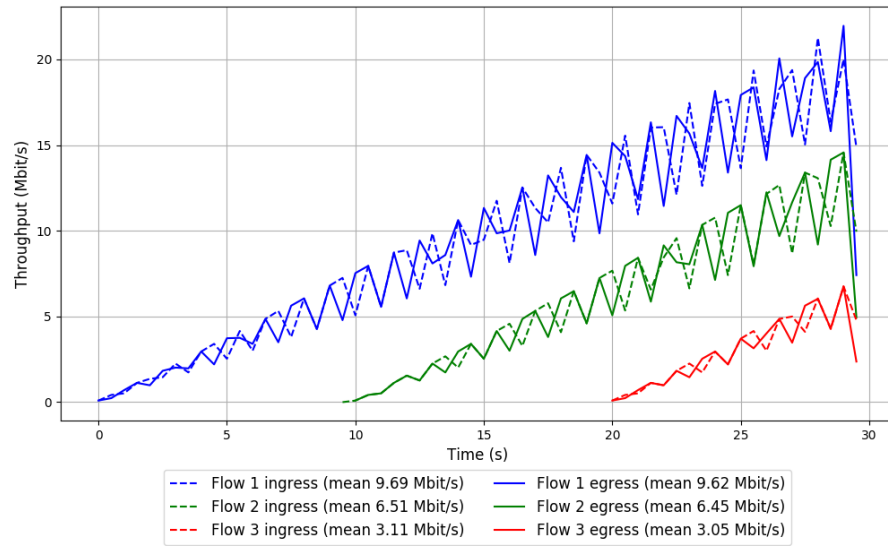


Run 6: Statistics of LEDBAT

Start at: 2018-04-24 19:08:06  
End at: 2018-04-24 19:08:36  
Local clock offset: 2.856 ms  
Remote clock offset: -1.682 ms

# Below is generated by plot.py at 2018-04-25 00:43:41  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 14.88 Mbit/s  
95th percentile per-packet one-way delay: 40.144 ms  
Loss rate: 1.66%  
-- Flow 1:  
Average throughput: 9.62 Mbit/s  
95th percentile per-packet one-way delay: 40.125 ms  
Loss rate: 1.29%  
-- Flow 2:  
Average throughput: 6.45 Mbit/s  
95th percentile per-packet one-way delay: 39.659 ms  
Loss rate: 1.93%  
-- Flow 3:  
Average throughput: 3.05 Mbit/s  
95th percentile per-packet one-way delay: 40.556 ms  
Loss rate: 3.97%

## Run 6: Report of LEDBAT — Data Link

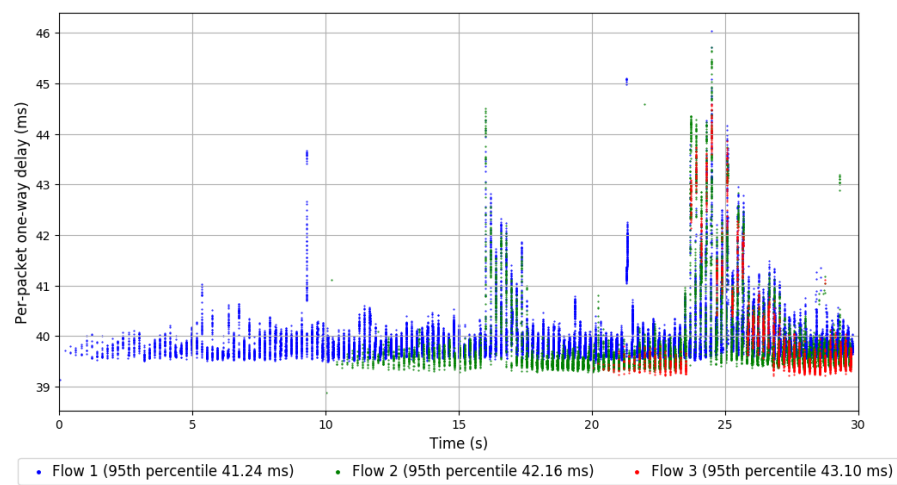
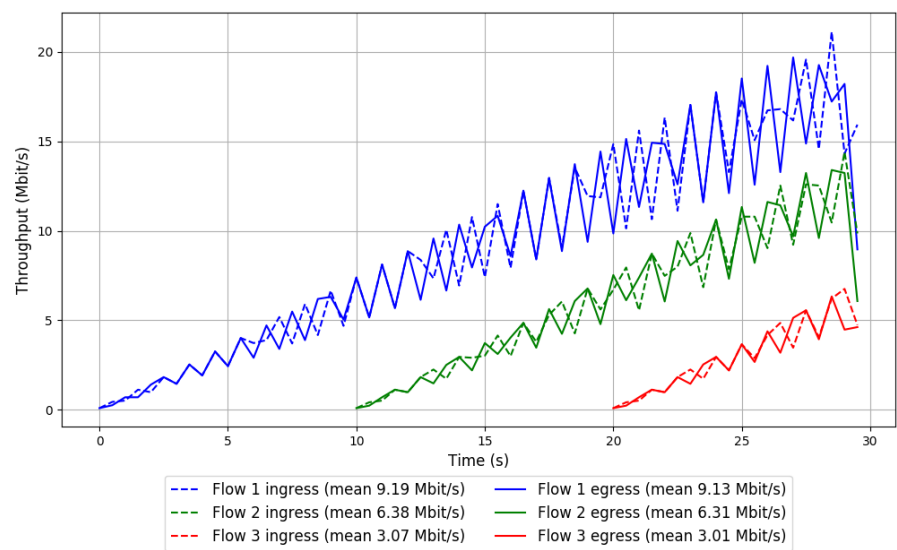


Run 7: Statistics of LEDBAT

Start at: 2018-04-24 19:30:57  
End at: 2018-04-24 19:31:27  
Local clock offset: -1.619 ms  
Remote clock offset: -0.967 ms

# Below is generated by plot.py at 2018-04-25 00:43:41  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 14.29 Mbit/s  
95th percentile per-packet one-way delay: 41.635 ms  
Loss rate: 1.66%  
-- Flow 1:  
Average throughput: 9.13 Mbit/s  
95th percentile per-packet one-way delay: 41.237 ms  
Loss rate: 1.27%  
-- Flow 2:  
Average throughput: 6.31 Mbit/s  
95th percentile per-packet one-way delay: 42.156 ms  
Loss rate: 1.95%  
-- Flow 3:  
Average throughput: 3.01 Mbit/s  
95th percentile per-packet one-way delay: 43.099 ms  
Loss rate: 3.95%

Run 7: Report of LEDBAT — Data Link

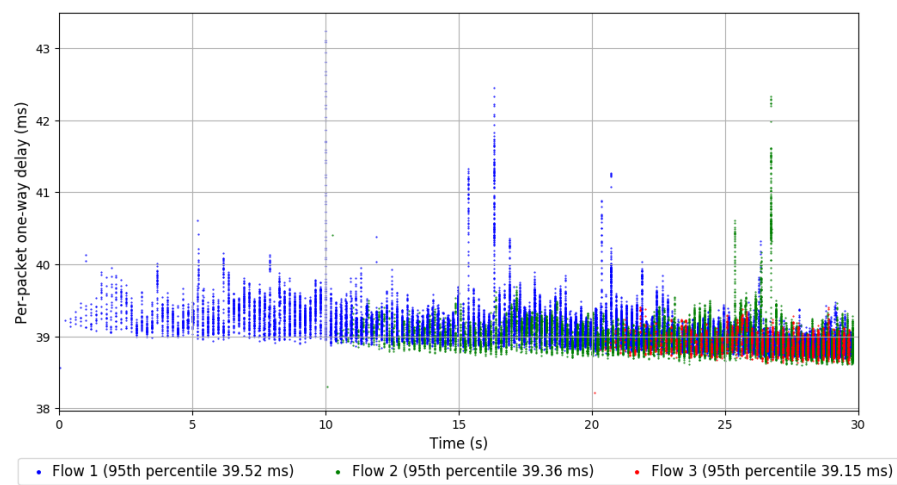
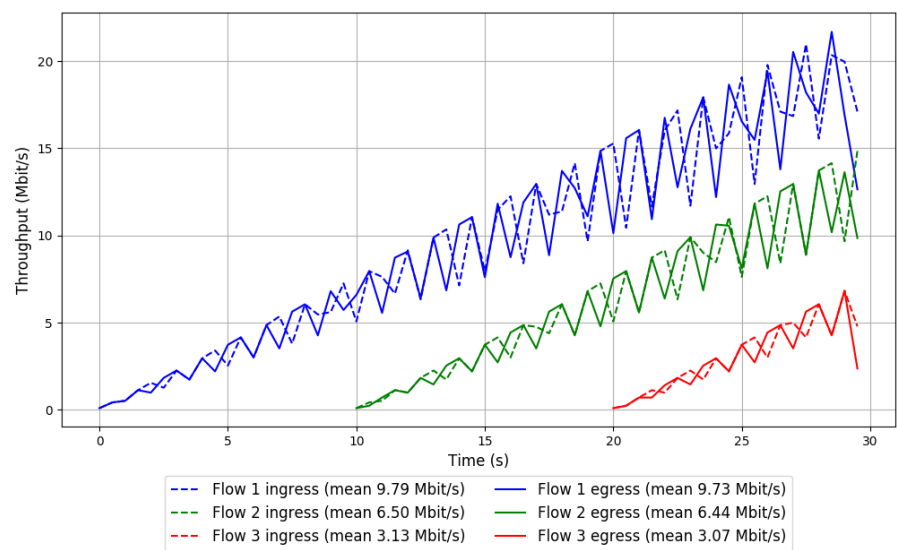


Run 8: Statistics of LEDBAT

Start at: 2018-04-24 19:53:47  
End at: 2018-04-24 19:54:17  
Local clock offset: -1.504 ms  
Remote clock offset: -0.823 ms

# Below is generated by plot.py at 2018-04-25 00:43:41  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 14.96 Mbit/s  
95th percentile per-packet one-way delay: 39.466 ms  
Loss rate: 1.65%  
-- Flow 1:  
Average throughput: 9.73 Mbit/s  
95th percentile per-packet one-way delay: 39.521 ms  
Loss rate: 1.28%  
-- Flow 2:  
Average throughput: 6.44 Mbit/s  
95th percentile per-packet one-way delay: 39.357 ms  
Loss rate: 1.93%  
-- Flow 3:  
Average throughput: 3.07 Mbit/s  
95th percentile per-packet one-way delay: 39.153 ms  
Loss rate: 3.96%

Run 8: Report of LEDBAT — Data Link



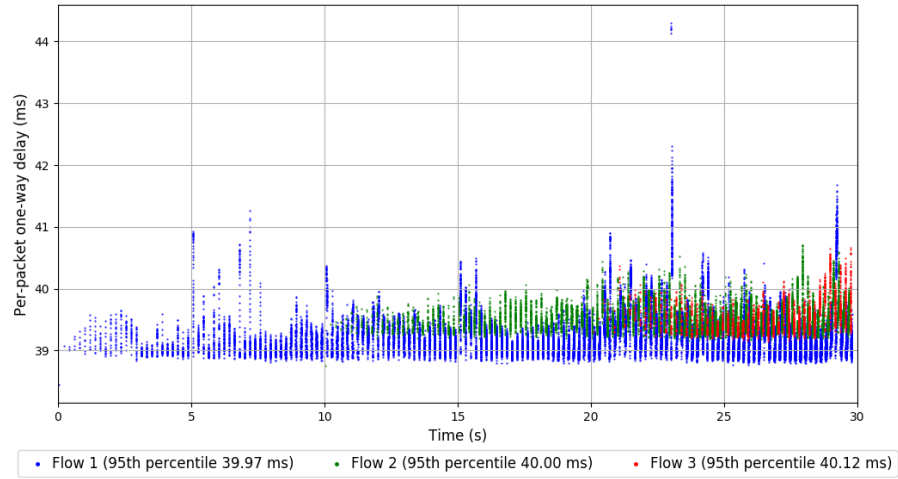
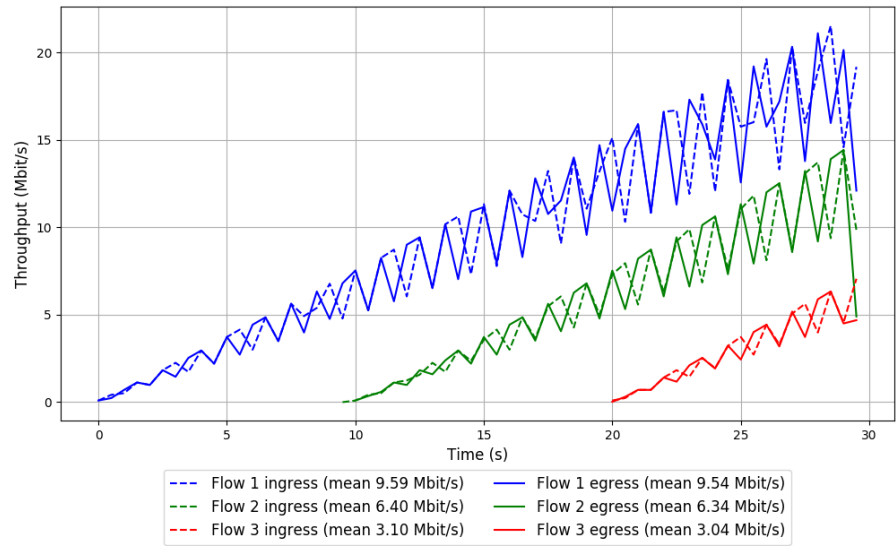


Run 9: Statistics of LEDBAT

Start at: 2018-04-24 20:16:55  
End at: 2018-04-24 20:17:25  
Local clock offset: 5.115 ms  
Remote clock offset: -0.656 ms

# Below is generated by plot.py at 2018-04-25 00:43:41  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 14.70 Mbit/s  
95th percentile per-packet one-way delay: 39.999 ms  
Loss rate: 1.62%  
-- Flow 1:  
Average throughput: 9.54 Mbit/s  
95th percentile per-packet one-way delay: 39.966 ms  
Loss rate: 1.23%  
-- Flow 2:  
Average throughput: 6.34 Mbit/s  
95th percentile per-packet one-way delay: 40.002 ms  
Loss rate: 1.95%  
-- Flow 3:  
Average throughput: 3.04 Mbit/s  
95th percentile per-packet one-way delay: 40.117 ms  
Loss rate: 3.96%

# Run 9: Report of LEDBAT — Data Link

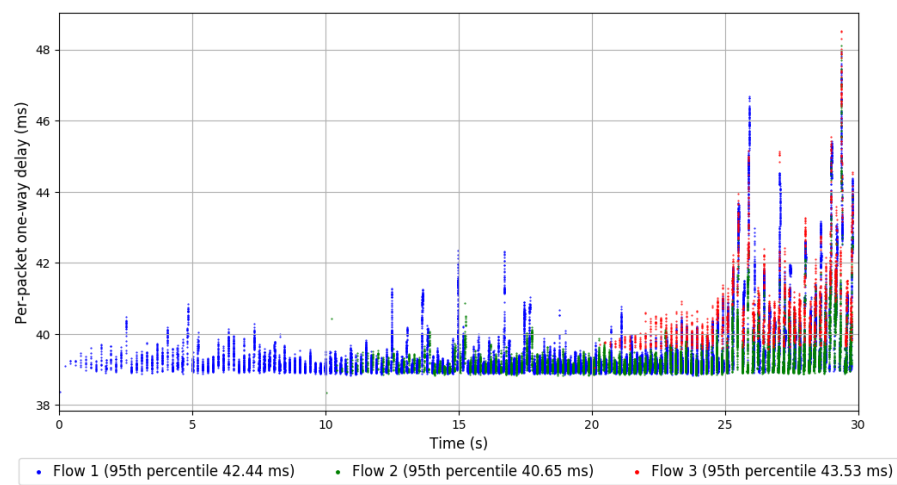
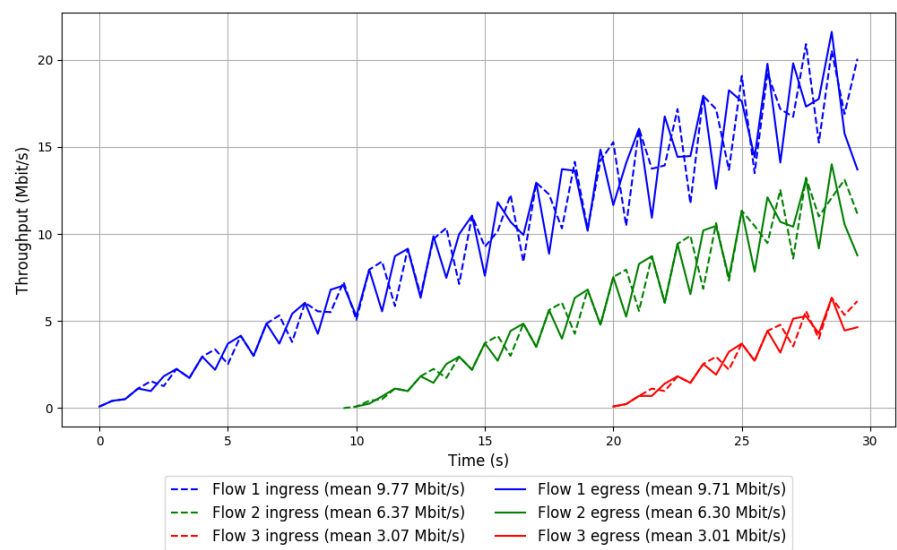


Run 10: Statistics of LEDBAT

Start at: 2018-04-24 20:39:47  
End at: 2018-04-24 20:40:17  
Local clock offset: 3.979 ms  
Remote clock offset: -0.506 ms

# Below is generated by plot.py at 2018-04-25 00:43:41  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 14.88 Mbit/s  
95th percentile per-packet one-way delay: 42.148 ms  
Loss rate: 1.65%  
-- Flow 1:  
Average throughput: 9.71 Mbit/s  
95th percentile per-packet one-way delay: 42.441 ms  
Loss rate: 1.28%  
-- Flow 2:  
Average throughput: 6.30 Mbit/s  
95th percentile per-packet one-way delay: 40.645 ms  
Loss rate: 1.95%  
-- Flow 3:  
Average throughput: 3.01 Mbit/s  
95th percentile per-packet one-way delay: 43.533 ms  
Loss rate: 3.94%

Run 10: Report of LEDBAT — Data Link

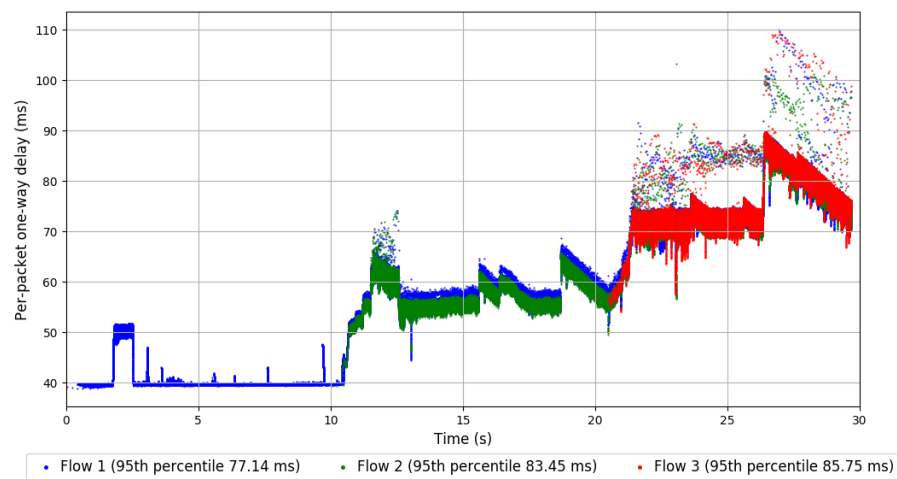
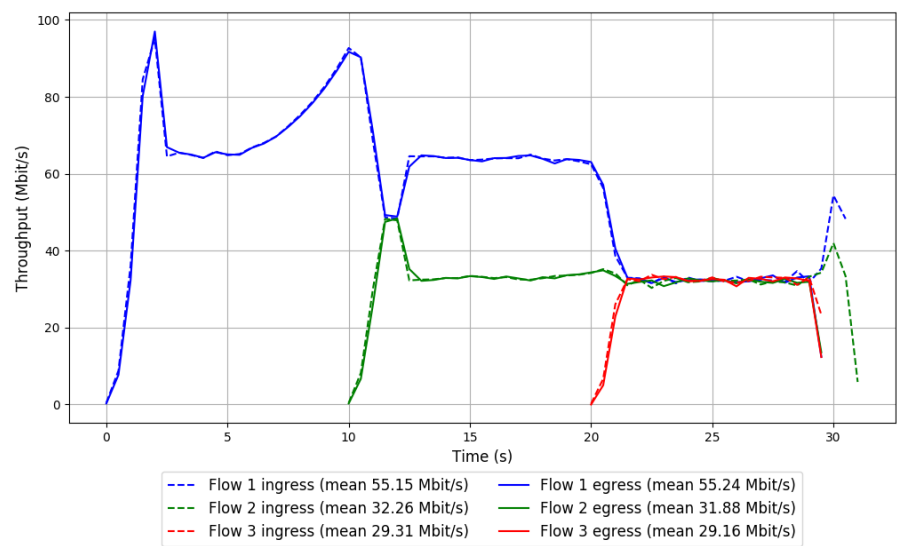


```
Run 1: Statistics of PCC-Allegro

Start at: 2018-04-24 16:58:42
End at: 2018-04-24 16:59:12
Local clock offset: -5.458 ms
Remote clock offset: -11.595 ms

# Below is generated by plot.py at 2018-04-25 00:44:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.80 Mbit/s
95th percentile per-packet one-way delay: 82.434 ms
Loss rate: 4.74%
-- Flow 1:
Average throughput: 55.24 Mbit/s
95th percentile per-packet one-way delay: 77.141 ms
Loss rate: 3.82%
-- Flow 2:
Average throughput: 31.88 Mbit/s
95th percentile per-packet one-way delay: 83.455 ms
Loss rate: 7.87%
-- Flow 3:
Average throughput: 29.16 Mbit/s
95th percentile per-packet one-way delay: 85.748 ms
Loss rate: 2.83%
```

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2018-04-24 17:21:34

End at: 2018-04-24 17:22:04

Local clock offset: -1.032 ms

Remote clock offset: -6.18 ms

# Below is generated by plot.py at 2018-04-25 00:44:20

# Datalink statistics

-- Total of 3 flows:

Average throughput: 86.80 Mbit/s

95th percentile per-packet one-way delay: 67.072 ms

Loss rate: 4.68%

-- Flow 1:

Average throughput: 59.63 Mbit/s

95th percentile per-packet one-way delay: 64.172 ms

Loss rate: 4.00%

-- Flow 2:

Average throughput: 32.98 Mbit/s

95th percentile per-packet one-way delay: 68.603 ms

Loss rate: 7.01%

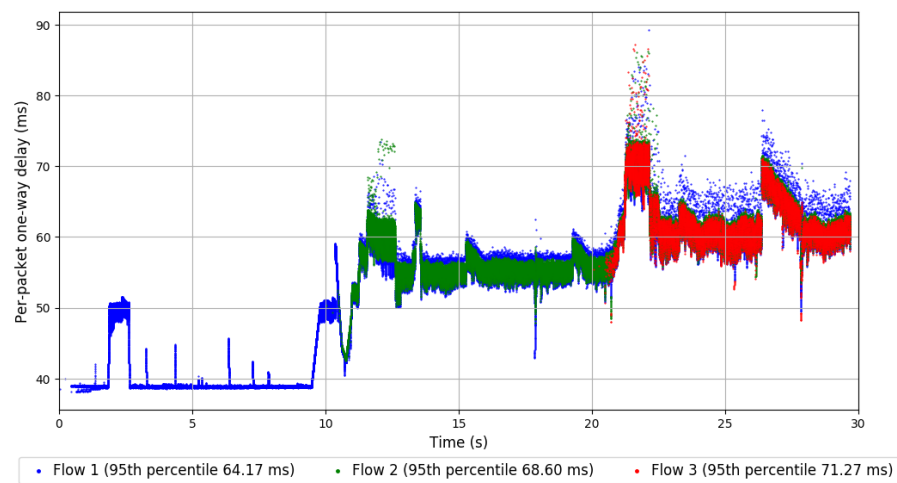
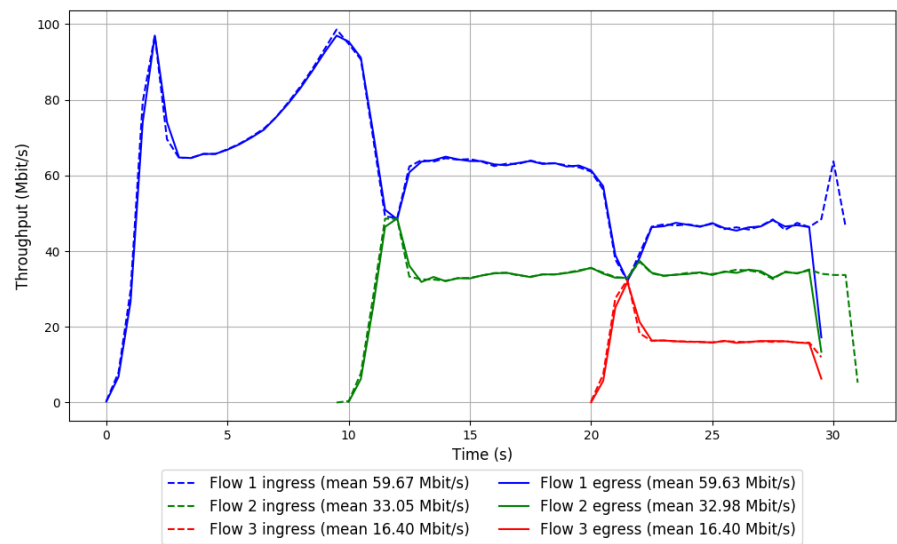
-- Flow 3:

Average throughput: 16.40 Mbit/s

95th percentile per-packet one-way delay: 71.268 ms

Loss rate: 2.40%

Run 2: Report of PCC-Allegro — Data Link



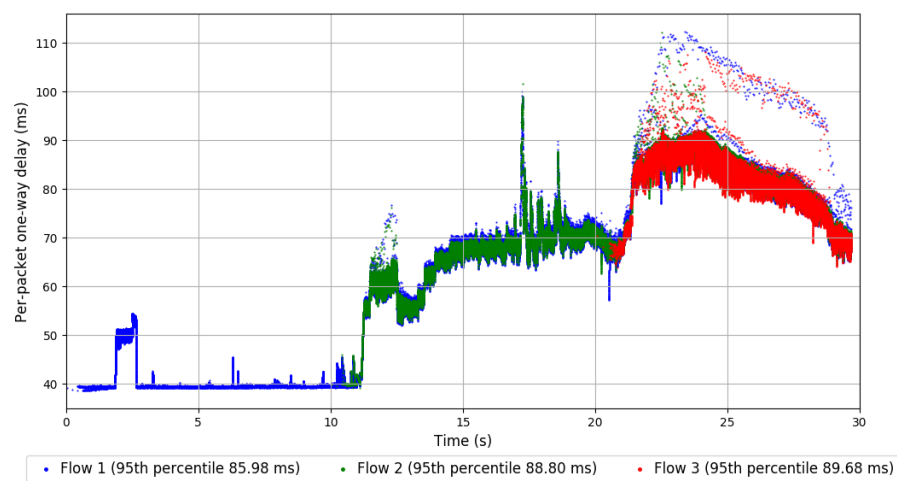
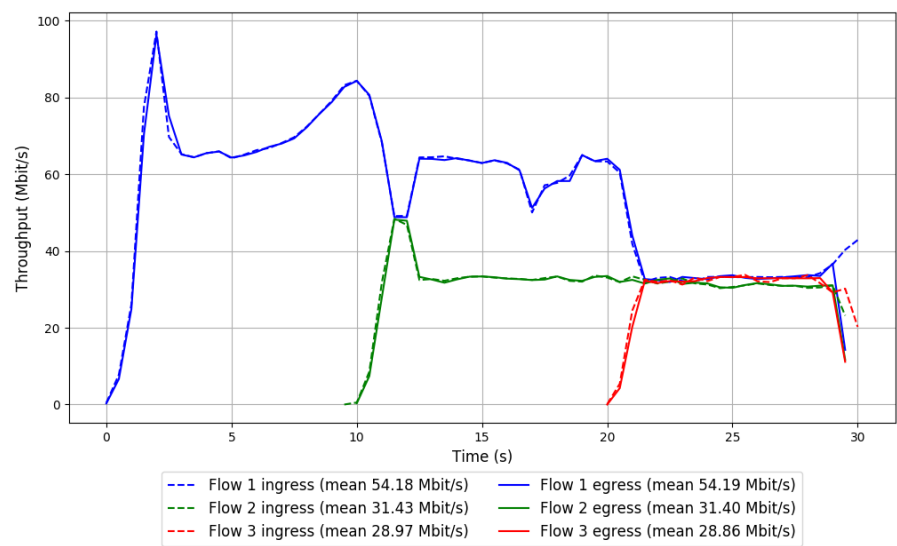


Run 3: Statistics of PCC-Allegro

Start at: 2018-04-24 17:44:39  
End at: 2018-04-24 17:45:09  
Local clock offset: -3.704 ms  
Remote clock offset: -2.424 ms

# Below is generated by plot.py at 2018-04-25 00:44:25  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 84.35 Mbit/s  
95th percentile per-packet one-way delay: 87.926 ms  
Loss rate: 2.60%  
-- Flow 1:  
Average throughput: 54.19 Mbit/s  
95th percentile per-packet one-way delay: 85.983 ms  
Loss rate: 2.27%  
-- Flow 2:  
Average throughput: 31.40 Mbit/s  
95th percentile per-packet one-way delay: 88.803 ms  
Loss rate: 1.25%  
-- Flow 3:  
Average throughput: 28.86 Mbit/s  
95th percentile per-packet one-way delay: 89.681 ms  
Loss rate: 7.22%

Run 3: Report of PCC-Allegro — Data Link

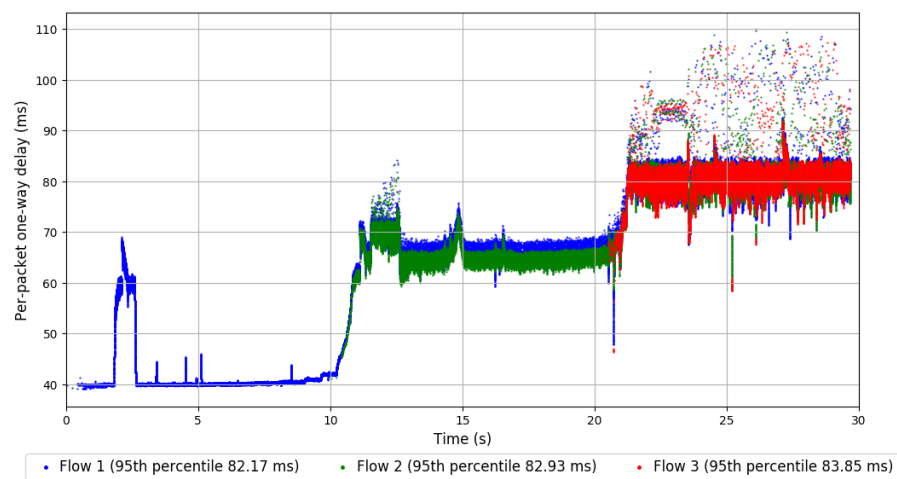
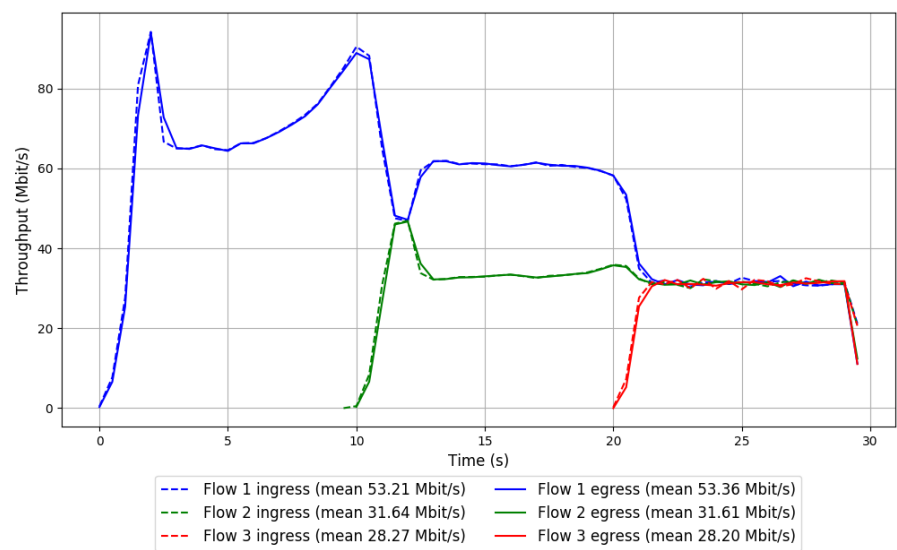


Run 4: Statistics of PCC-Allegro

Start at: 2018-04-24 18:07:33  
End at: 2018-04-24 18:08:03  
Local clock offset: -6.407 ms  
Remote clock offset: -1.782 ms

# Below is generated by plot.py at 2018-04-25 00:44:25  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 83.44 Mbit/s  
95th percentile per-packet one-way delay: 82.858 ms  
Loss rate: 0.87%  
-- Flow 1:  
Average throughput: 53.36 Mbit/s  
95th percentile per-packet one-way delay: 82.168 ms  
Loss rate: 0.47%  
-- Flow 2:  
Average throughput: 31.61 Mbit/s  
95th percentile per-packet one-way delay: 82.932 ms  
Loss rate: 1.13%  
-- Flow 3:  
Average throughput: 28.20 Mbit/s  
95th percentile per-packet one-way delay: 83.846 ms  
Loss rate: 2.59%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2018-04-24 18:30:26

End at: 2018-04-24 18:30:56

Local clock offset: -0.959 ms

Remote clock offset: -1.44 ms

# Below is generated by plot.py at 2018-04-25 00:44:58

# Datalink statistics

-- Total of 3 flows:

Average throughput: 86.76 Mbit/s

95th percentile per-packet one-way delay: 77.860 ms

Loss rate: 5.77%

-- Flow 1:

Average throughput: 56.35 Mbit/s

95th percentile per-packet one-way delay: 73.463 ms

Loss rate: 5.91%

-- Flow 2:

Average throughput: 31.75 Mbit/s

95th percentile per-packet one-way delay: 79.098 ms

Loss rate: 1.24%

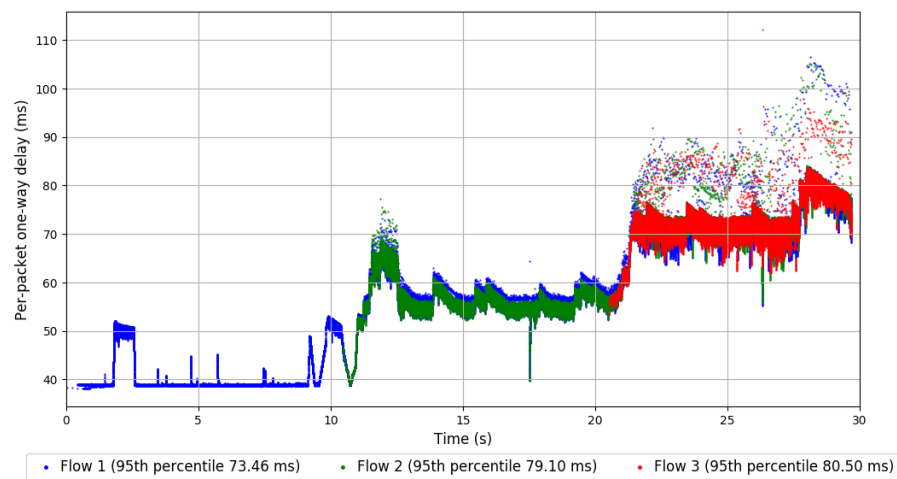
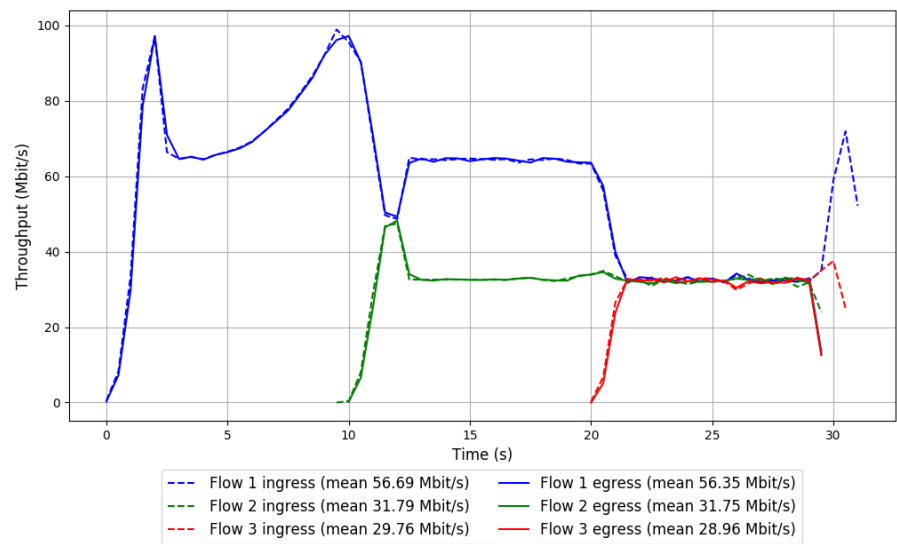
-- Flow 3:

Average throughput: 28.96 Mbit/s

95th percentile per-packet one-way delay: 80.502 ms

Loss rate: 13.86%

Run 5: Report of PCC-Allegro — Data Link

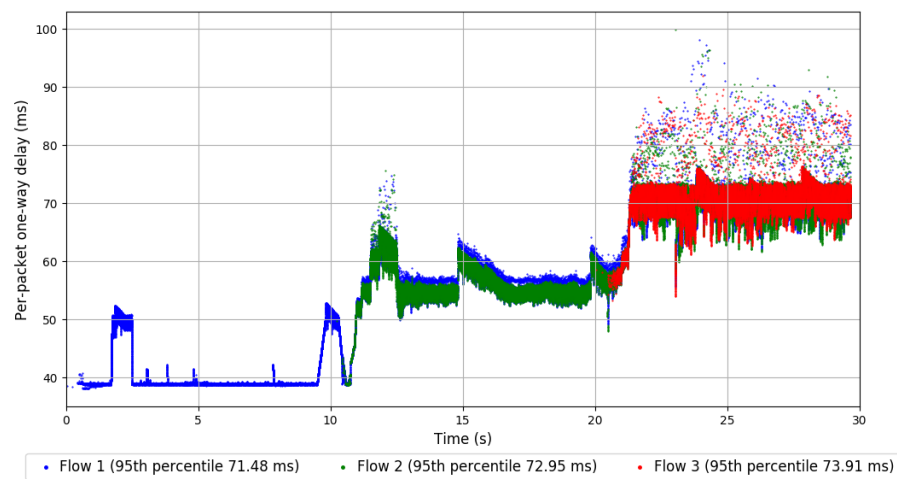
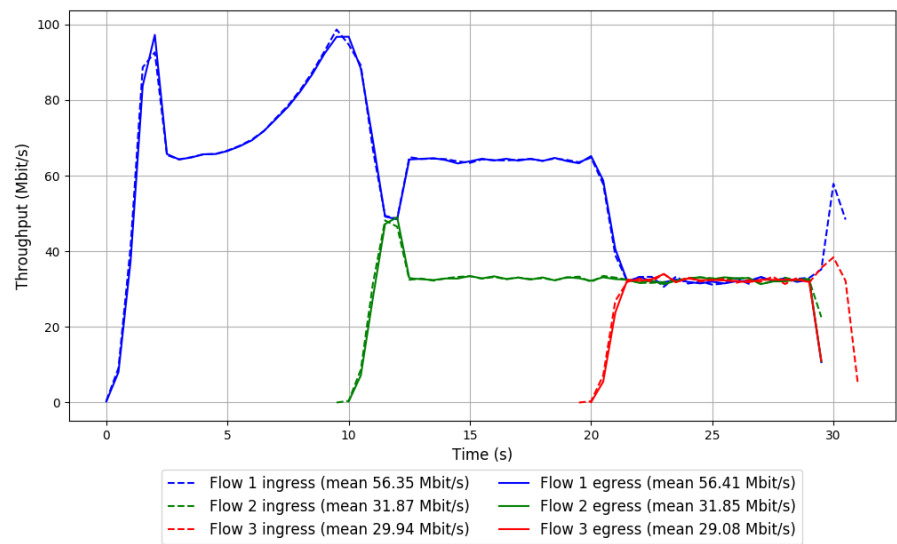


Run 6: Statistics of PCC-Allegro

Start at: 2018-04-24 18:53:18  
End at: 2018-04-24 18:53:48  
Local clock offset: 1.632 ms  
Remote clock offset: -1.523 ms

# Below is generated by plot.py at 2018-04-25 00:45:02  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 86.95 Mbit/s  
95th percentile per-packet one-way delay: 72.569 ms  
Loss rate: 4.75%  
-- Flow 1:  
Average throughput: 56.41 Mbit/s  
95th percentile per-packet one-way delay: 71.484 ms  
Loss rate: 3.90%  
-- Flow 2:  
Average throughput: 31.85 Mbit/s  
95th percentile per-packet one-way delay: 72.946 ms  
Loss rate: 1.30%  
-- Flow 3:  
Average throughput: 29.08 Mbit/s  
95th percentile per-packet one-way delay: 73.910 ms  
Loss rate: 15.80%

Run 6: Report of PCC-Allegro — Data Link



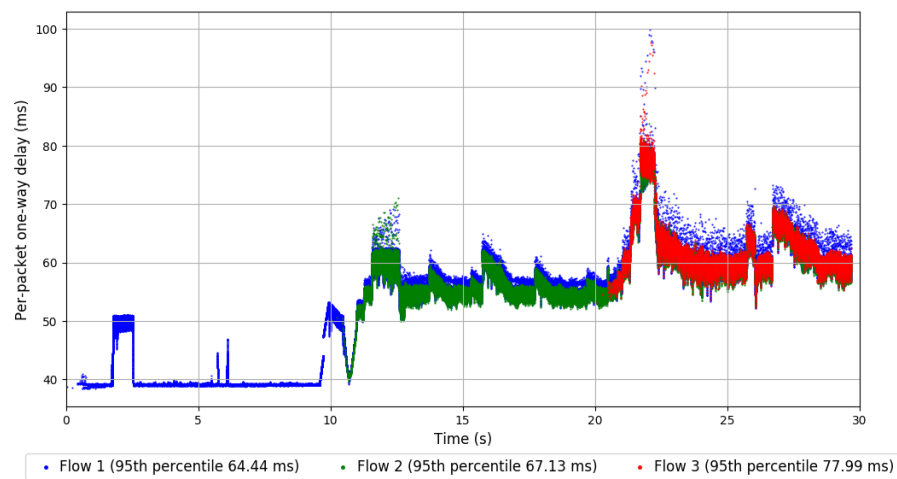
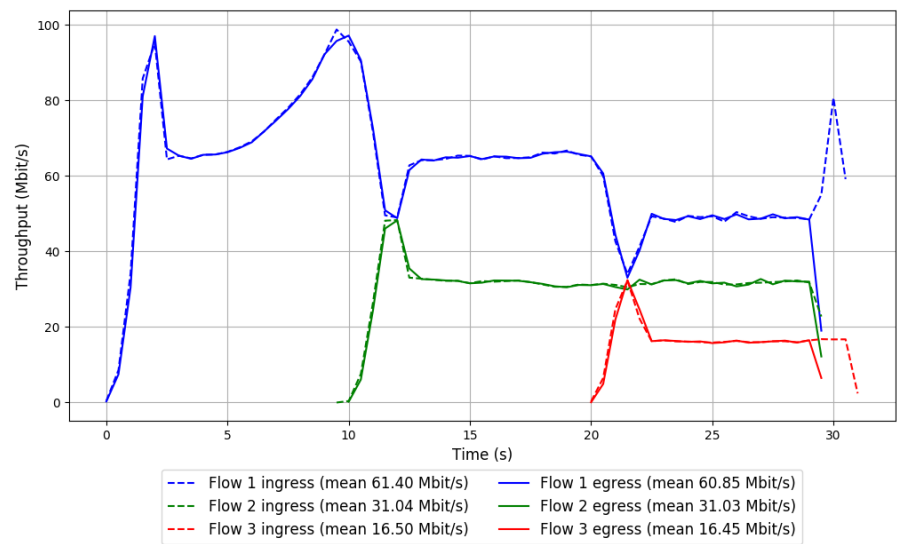


Run 7: Statistics of PCC-Allegro

Start at: 2018-04-24 19:16:12  
End at: 2018-04-24 19:16:42  
Local clock offset: 3.393 ms  
Remote clock offset: -1.345 ms

# Below is generated by plot.py at 2018-04-25 00:45:02  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 86.73 Mbit/s  
95th percentile per-packet one-way delay: 66.281 ms  
Loss rate: 4.53%  
-- Flow 1:  
Average throughput: 60.85 Mbit/s  
95th percentile per-packet one-way delay: 64.439 ms  
Loss rate: 4.79%  
-- Flow 2:  
Average throughput: 31.03 Mbit/s  
95th percentile per-packet one-way delay: 67.129 ms  
Loss rate: 1.16%  
-- Flow 3:  
Average throughput: 16.45 Mbit/s  
95th percentile per-packet one-way delay: 77.990 ms  
Loss rate: 13.19%

Run 7: Report of PCC-Allegro — Data Link

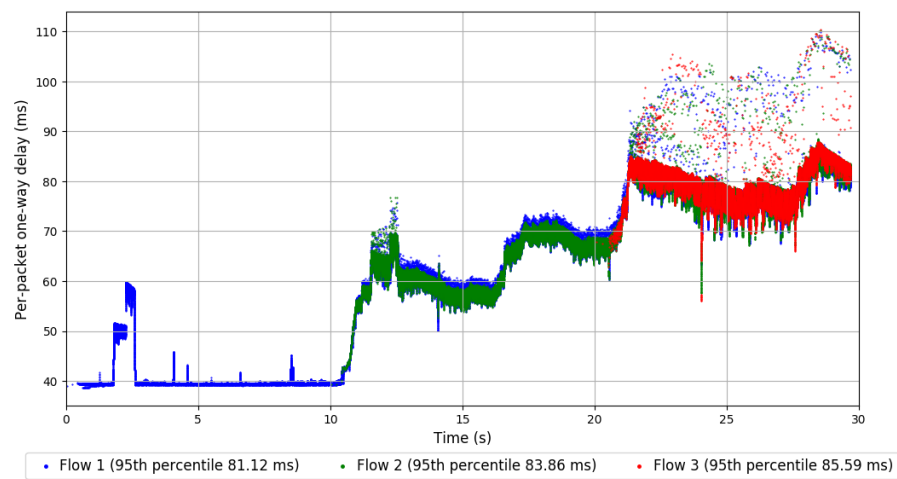
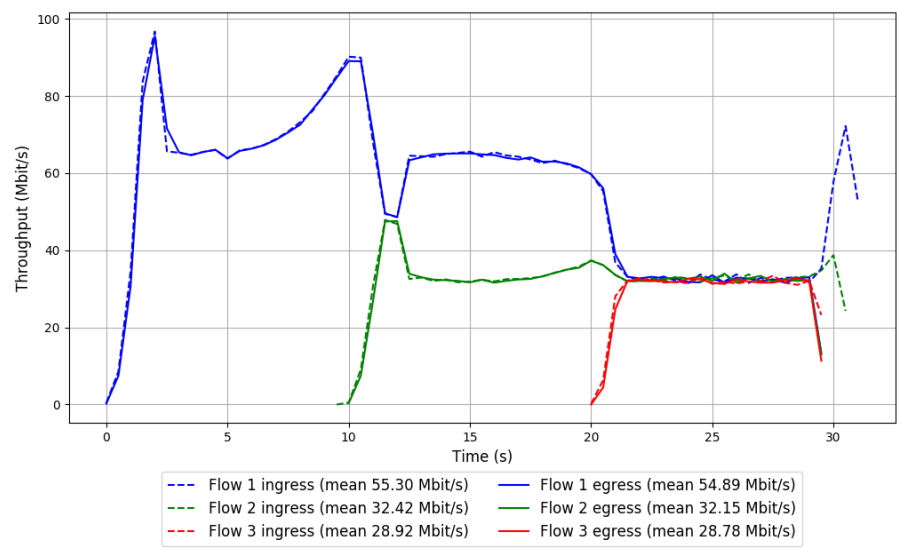


Run 8: Statistics of PCC-Allegro

Start at: 2018-04-24 19:39:01  
End at: 2018-04-24 19:39:31  
Local clock offset: -2.358 ms  
Remote clock offset: -0.917 ms

# Below is generated by plot.py at 2018-04-25 00:45:04  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 85.51 Mbit/s  
95th percentile per-packet one-way delay: 83.294 ms  
Loss rate: 5.89%  
-- Flow 1:  
Average throughput: 54.89 Mbit/s  
95th percentile per-packet one-way delay: 81.125 ms  
Loss rate: 6.06%  
-- Flow 2:  
Average throughput: 32.15 Mbit/s  
95th percentile per-packet one-way delay: 83.862 ms  
Loss rate: 6.73%  
-- Flow 3:  
Average throughput: 28.78 Mbit/s  
95th percentile per-packet one-way delay: 85.592 ms  
Loss rate: 2.86%

Run 8: Report of PCC-Allegro — Data Link

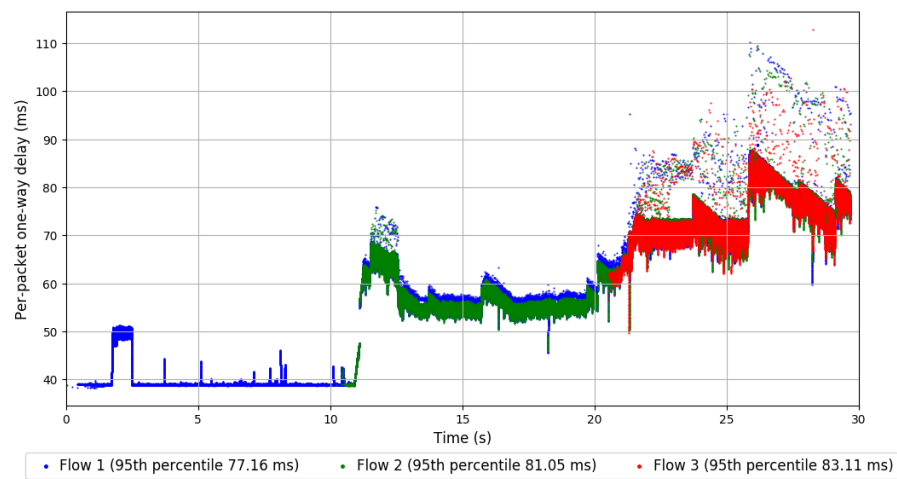
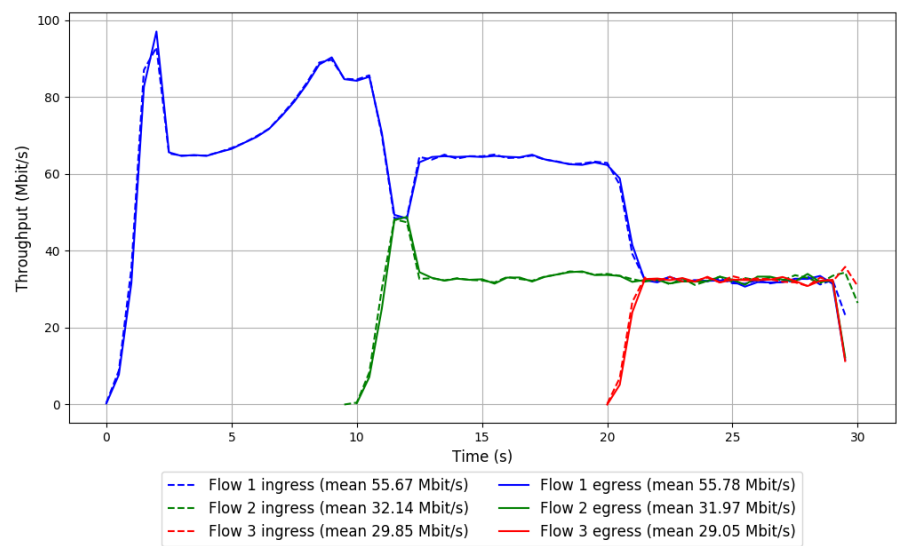


Run 9: Statistics of PCC-Allegro

Start at: 2018-04-24 20:01:54  
End at: 2018-04-24 20:02:24  
Local clock offset: 1.98 ms  
Remote clock offset: -0.792 ms

# Below is generated by plot.py at 2018-04-25 00:45:46  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 86.37 Mbit/s  
95th percentile per-packet one-way delay: 80.241 ms  
Loss rate: 2.48%  
-- Flow 1:  
Average throughput: 55.78 Mbit/s  
95th percentile per-packet one-way delay: 77.158 ms  
Loss rate: 0.48%  
-- Flow 2:  
Average throughput: 31.97 Mbit/s  
95th percentile per-packet one-way delay: 81.052 ms  
Loss rate: 4.14%  
-- Flow 3:  
Average throughput: 29.05 Mbit/s  
95th percentile per-packet one-way delay: 83.114 ms  
Loss rate: 9.72%

Run 9: Report of PCC-Allegro — Data Link

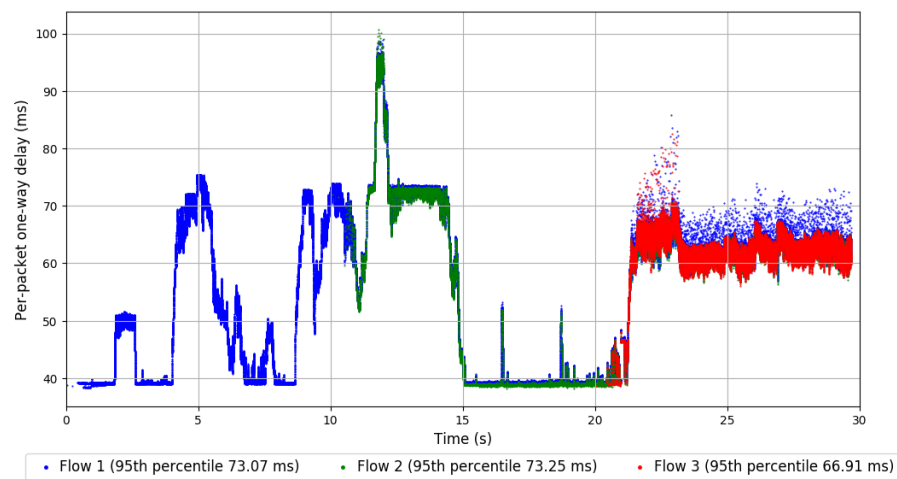
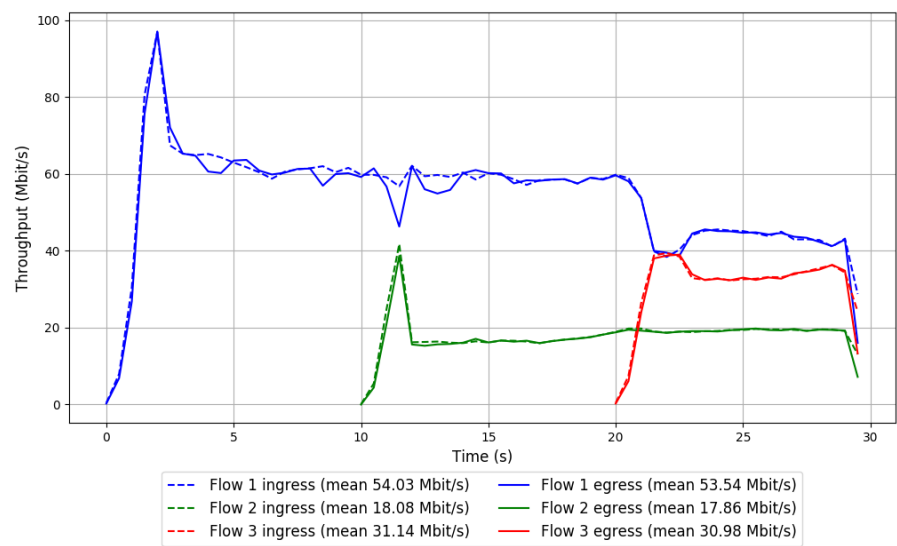


Run 10: Statistics of PCC-Allegro

Start at: 2018-04-24 20:25:03  
End at: 2018-04-24 20:25:33  
Local clock offset: 5.89 ms  
Remote clock offset: -0.634 ms

# Below is generated by plot.py at 2018-04-25 00:45:46  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 75.41 Mbit/s  
95th percentile per-packet one-way delay: 72.980 ms  
Loss rate: 1.83%  
-- Flow 1:  
Average throughput: 53.54 Mbit/s  
95th percentile per-packet one-way delay: 73.067 ms  
Loss rate: 1.60%  
-- Flow 2:  
Average throughput: 17.86 Mbit/s  
95th percentile per-packet one-way delay: 73.248 ms  
Loss rate: 2.36%  
-- Flow 3:  
Average throughput: 30.98 Mbit/s  
95th percentile per-packet one-way delay: 66.911 ms  
Loss rate: 2.47%

Run 10: Report of PCC-Allegro — Data Link



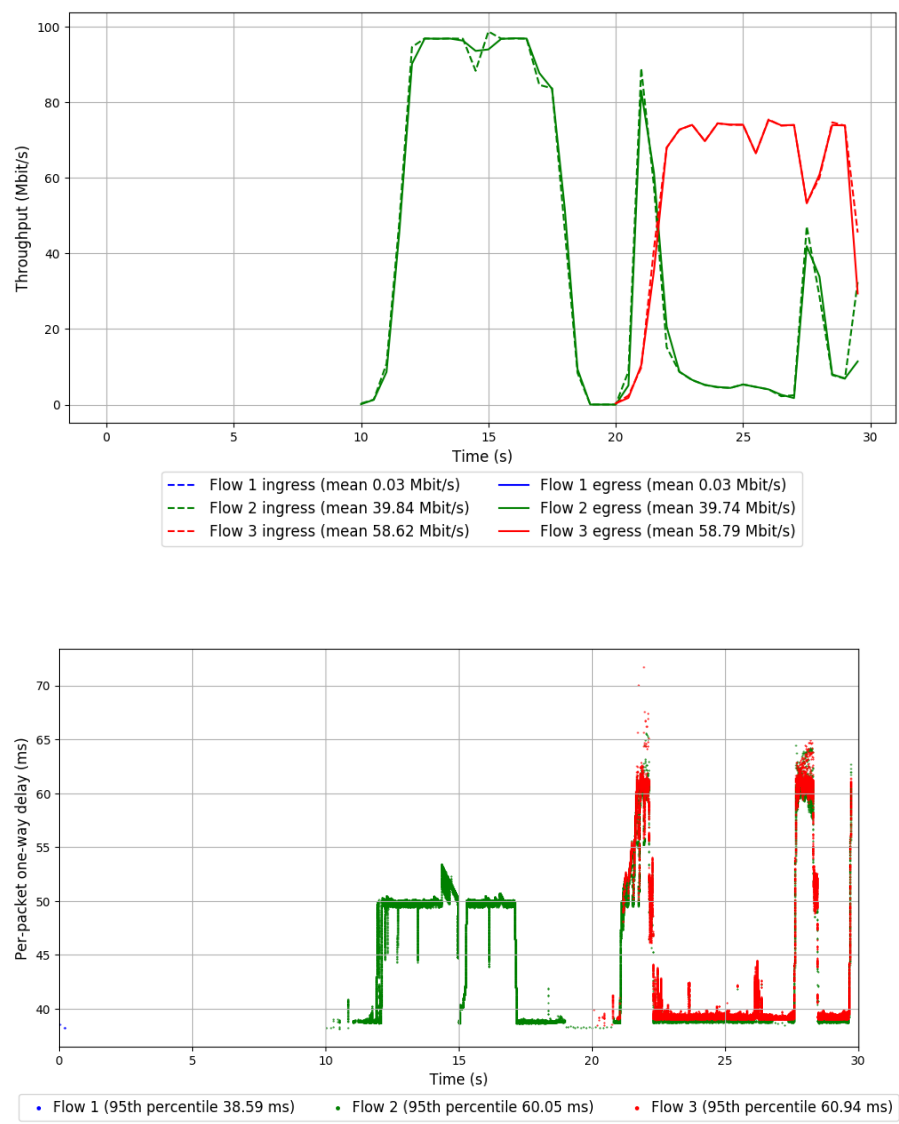


Run 1: Statistics of QUIC Cubic

Start at: 2018-04-24 17:12:07  
End at: 2018-04-24 17:12:37  
Local clock offset: -1.878 ms  
Remote clock offset: -5.911 ms

# Below is generated by plot.py at 2018-04-25 00:45:46  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 45.48 Mbit/s  
95th percentile per-packet one-way delay: 60.507 ms  
Loss rate: 1.58%  
-- Flow 1:  
Average throughput: 0.03 Mbit/s  
95th percentile per-packet one-way delay: 38.587 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 39.74 Mbit/s  
95th percentile per-packet one-way delay: 60.051 ms  
Loss rate: 1.36%  
-- Flow 3:  
Average throughput: 58.79 Mbit/s  
95th percentile per-packet one-way delay: 60.936 ms  
Loss rate: 1.89%

Run 1: Report of QUIC Cubic — Data Link

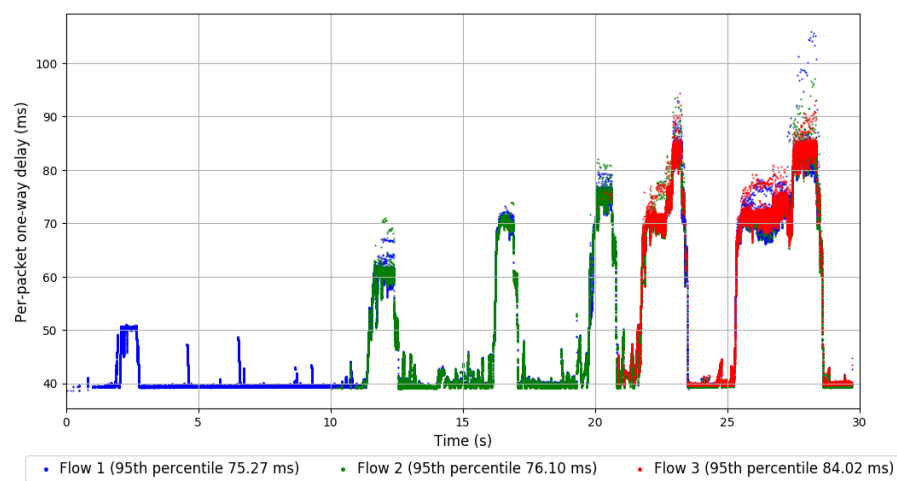
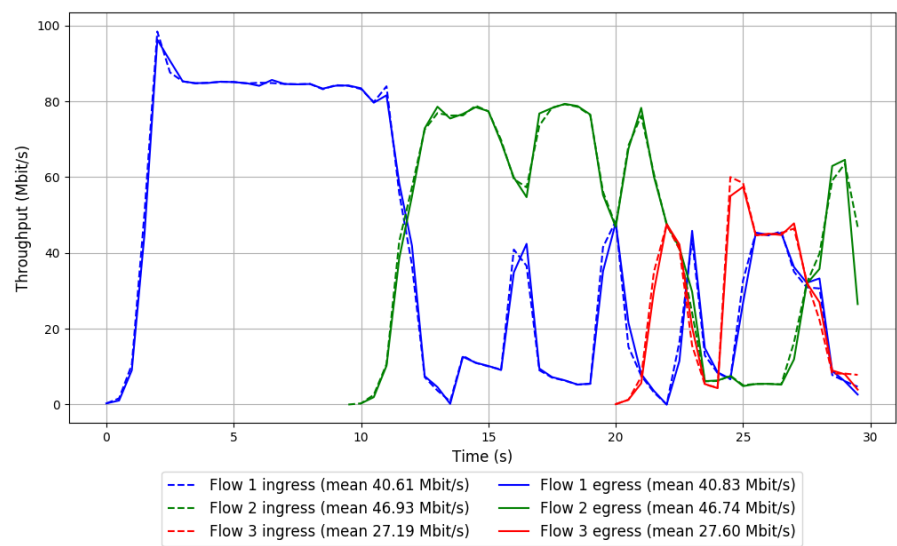


Run 2: Statistics of QUIC Cubic

Start at: 2018-04-24 17:34:59  
End at: 2018-04-24 17:35:29  
Local clock offset: -1.085 ms  
Remote clock offset: -3.987 ms

# Below is generated by plot.py at 2018-04-25 00:45:50  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 80.79 Mbit/s  
95th percentile per-packet one-way delay: 79.180 ms  
Loss rate: 0.67%  
-- Flow 1:  
Average throughput: 40.83 Mbit/s  
95th percentile per-packet one-way delay: 75.273 ms  
Loss rate: 0.11%  
-- Flow 2:  
Average throughput: 46.74 Mbit/s  
95th percentile per-packet one-way delay: 76.101 ms  
Loss rate: 1.34%  
-- Flow 3:  
Average throughput: 27.60 Mbit/s  
95th percentile per-packet one-way delay: 84.020 ms  
Loss rate: 0.86%

Run 2: Report of QUIC Cubic — Data Link

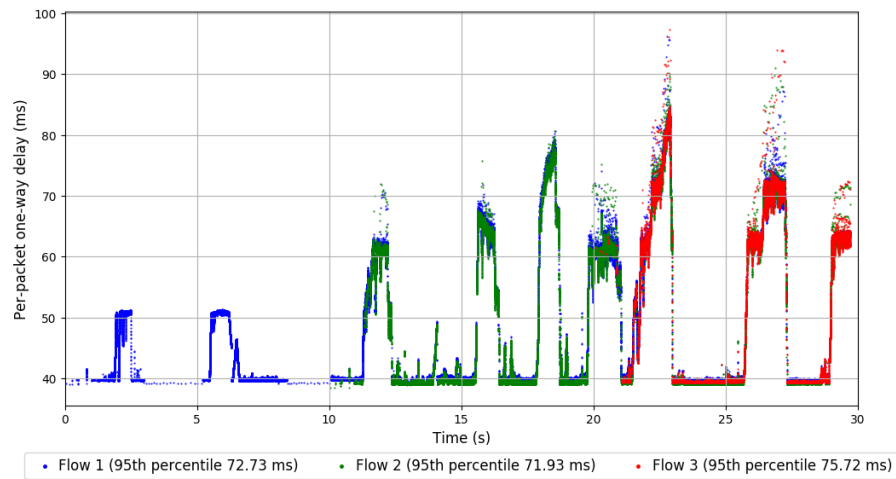
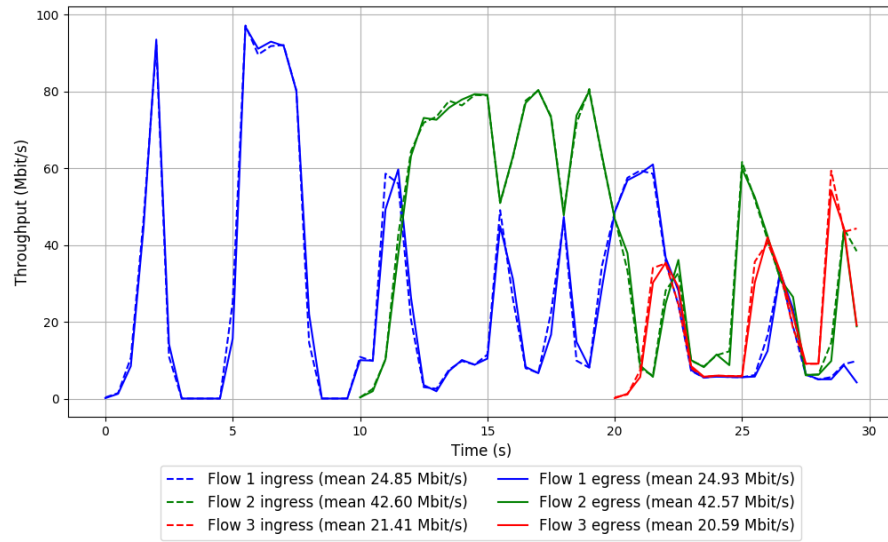


Run 3: Statistics of QUIC Cubic

Start at: 2018-04-24 17:58:05  
End at: 2018-04-24 17:58:35  
Local clock offset: -5.491 ms  
Remote clock offset: -2.082 ms

# Below is generated by plot.py at 2018-04-25 00:46:10  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 59.83 Mbit/s  
95th percentile per-packet one-way delay: 72.628 ms  
Loss rate: 1.73%  
-- Flow 1:  
Average throughput: 24.93 Mbit/s  
95th percentile per-packet one-way delay: 72.731 ms  
Loss rate: 0.46%  
-- Flow 2:  
Average throughput: 42.57 Mbit/s  
95th percentile per-packet one-way delay: 71.926 ms  
Loss rate: 1.50%  
-- Flow 3:  
Average throughput: 20.59 Mbit/s  
95th percentile per-packet one-way delay: 75.722 ms  
Loss rate: 7.05%

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

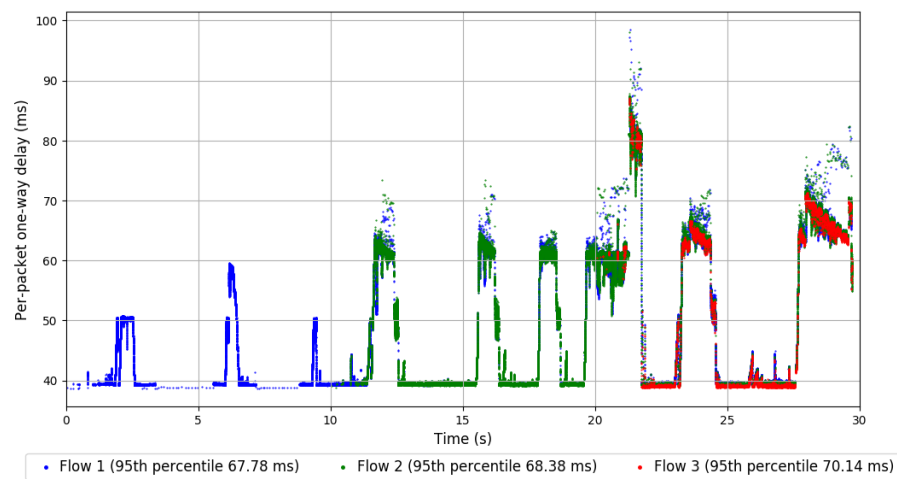
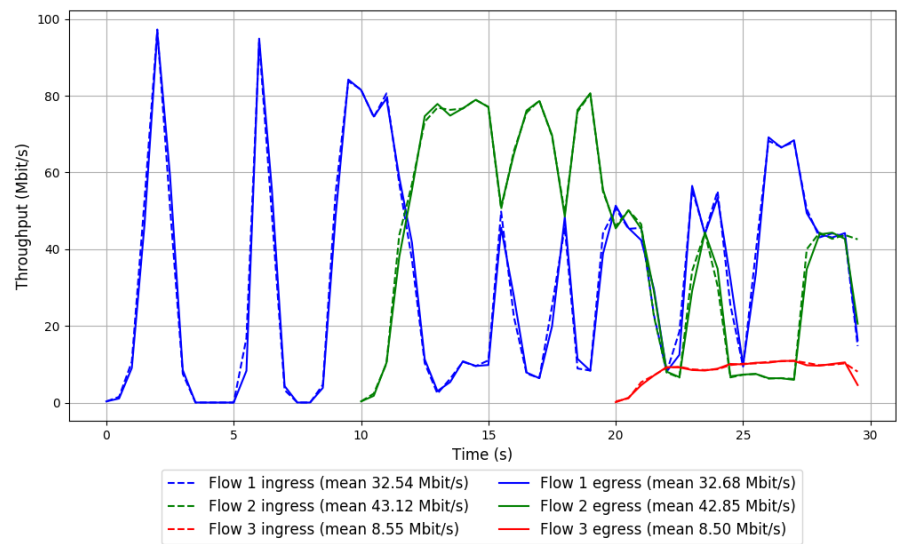


Run 4: Statistics of QUIC Cubic

Start at: 2018-04-24 18:20:58  
End at: 2018-04-24 18:21:28  
Local clock offset: -1.942 ms  
Remote clock offset: -1.318 ms

# Below is generated by plot.py at 2018-04-25 00:46:21  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 63.86 Mbit/s  
95th percentile per-packet one-way delay: 68.286 ms  
Loss rate: 0.97%  
-- Flow 1:  
Average throughput: 32.68 Mbit/s  
95th percentile per-packet one-way delay: 67.783 ms  
Loss rate: 0.24%  
-- Flow 2:  
Average throughput: 42.85 Mbit/s  
95th percentile per-packet one-way delay: 68.383 ms  
Loss rate: 1.63%  
-- Flow 3:  
Average throughput: 8.50 Mbit/s  
95th percentile per-packet one-way delay: 70.137 ms  
Loss rate: 2.79%

Run 4: Report of QUIC Cubic — Data Link





Run 5: Statistics of QUIC Cubic

Start at: 2018-04-24 18:43:53

End at: 2018-04-24 18:44:23

Local clock offset: -0.242 ms

Remote clock offset: -1.5 ms

# Below is generated by plot.py at 2018-04-25 00:46:21

# Datalink statistics

-- Total of 3 flows:

Average throughput: 32.44 Mbit/s

95th percentile per-packet one-way delay: 60.310 ms

Loss rate: 1.99%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 39.106 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 38.29 Mbit/s

95th percentile per-packet one-way delay: 52.787 ms

Loss rate: 0.17%

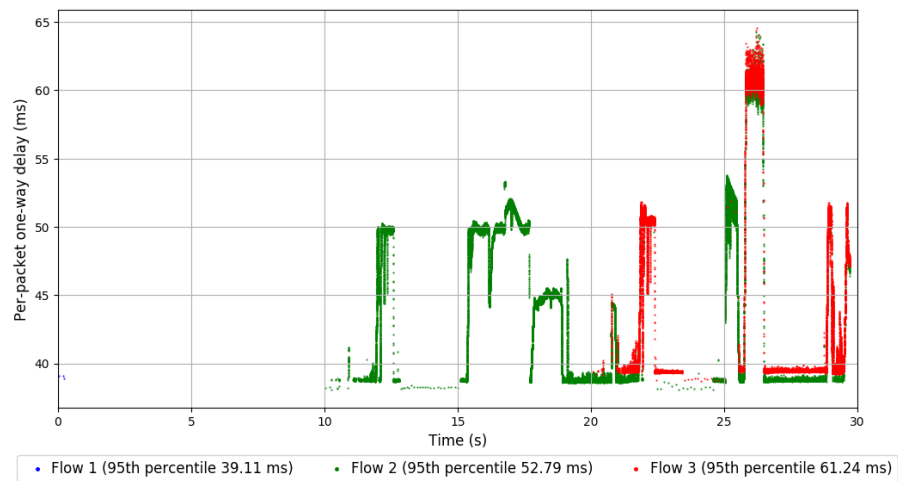
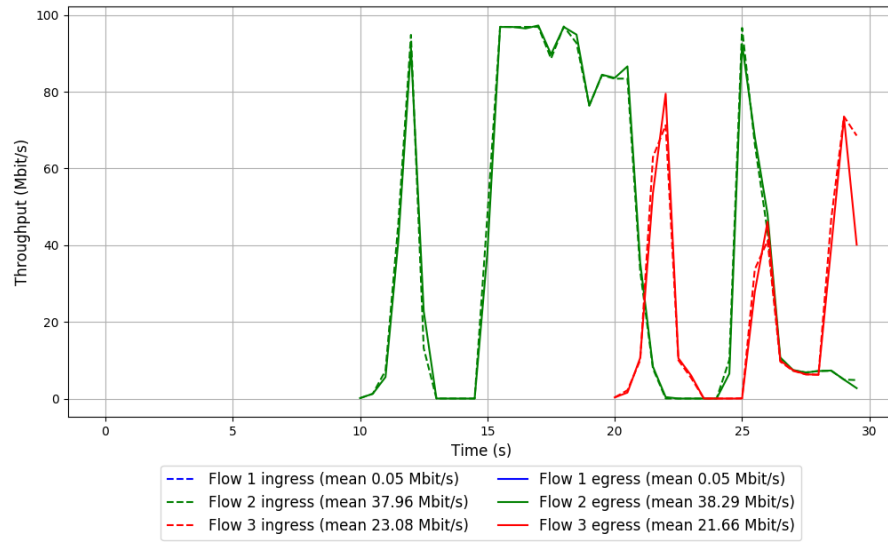
-- Flow 3:

Average throughput: 21.66 Mbit/s

95th percentile per-packet one-way delay: 61.242 ms

Loss rate: 8.01%

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



Run 6: Statistics of QUIC Cubic

Start at: 2018-04-24 19:06:45

End at: 2018-04-24 19:07:15

Local clock offset: 2.94 ms

Remote clock offset: -1.67 ms

# Below is generated by plot.py at 2018-04-25 00:46:31

# Datalink statistics

-- Total of 3 flows:

Average throughput: 71.75 Mbit/s

95th percentile per-packet one-way delay: 68.015 ms

Loss rate: 0.21%

-- Flow 1:

Average throughput: 37.36 Mbit/s

95th percentile per-packet one-way delay: 63.310 ms

Loss rate: 0.15%

-- Flow 2:

Average throughput: 42.57 Mbit/s

95th percentile per-packet one-way delay: 67.087 ms

Loss rate: 0.14%

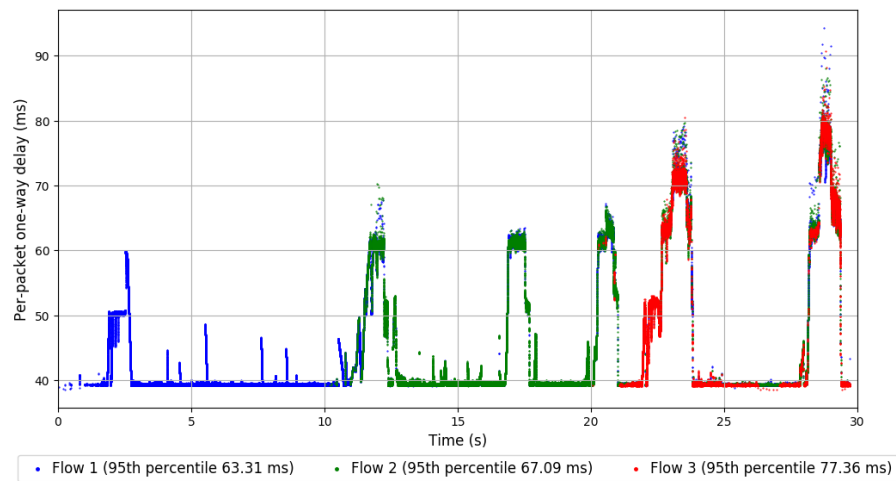
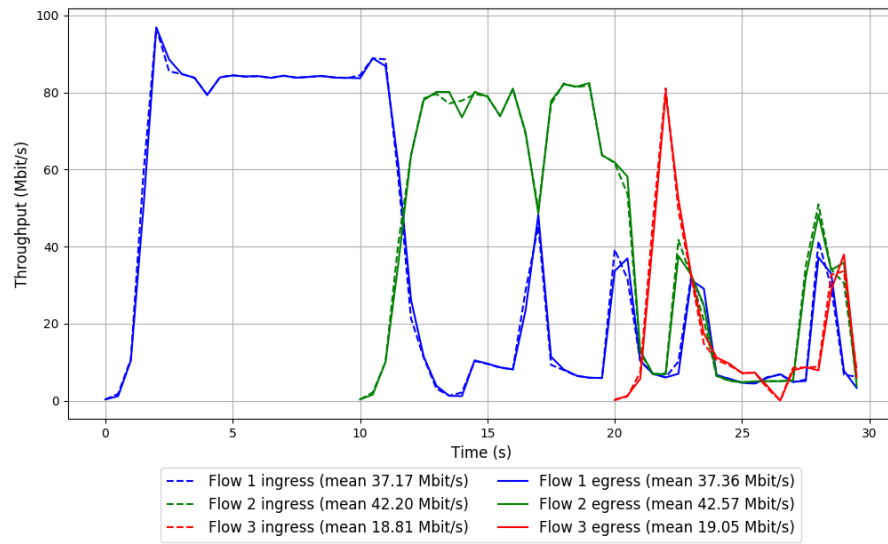
-- Flow 3:

Average throughput: 19.05 Mbit/s

95th percentile per-packet one-way delay: 77.358 ms

Loss rate: 0.81%

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

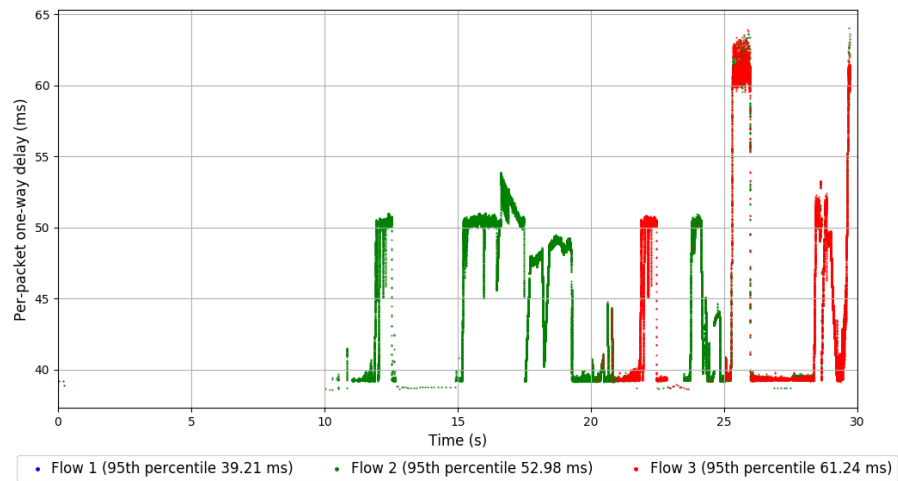
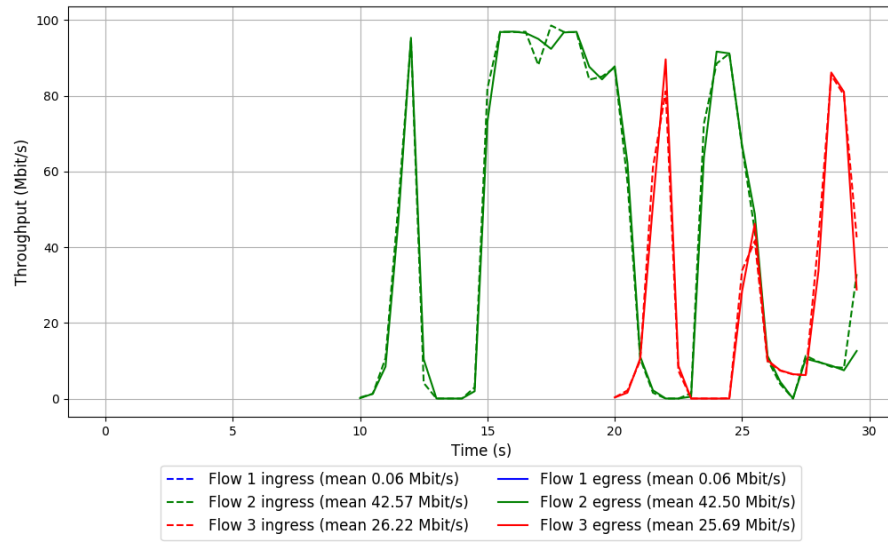


Run 7: Statistics of QUIC Cubic

Start at: 2018-04-24 19:29:37  
End at: 2018-04-24 19:30:07  
Local clock offset: -1.461 ms  
Remote clock offset: -0.964 ms

# Below is generated by plot.py at 2018-04-25 00:46:31  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 36.53 Mbit/s  
95th percentile per-packet one-way delay: 60.739 ms  
Loss rate: 1.94%  
-- Flow 1:  
Average throughput: 0.06 Mbit/s  
95th percentile per-packet one-way delay: 39.206 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 42.50 Mbit/s  
95th percentile per-packet one-way delay: 52.984 ms  
Loss rate: 1.27%  
-- Flow 3:  
Average throughput: 25.69 Mbit/s  
95th percentile per-packet one-way delay: 61.236 ms  
Loss rate: 4.11%

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

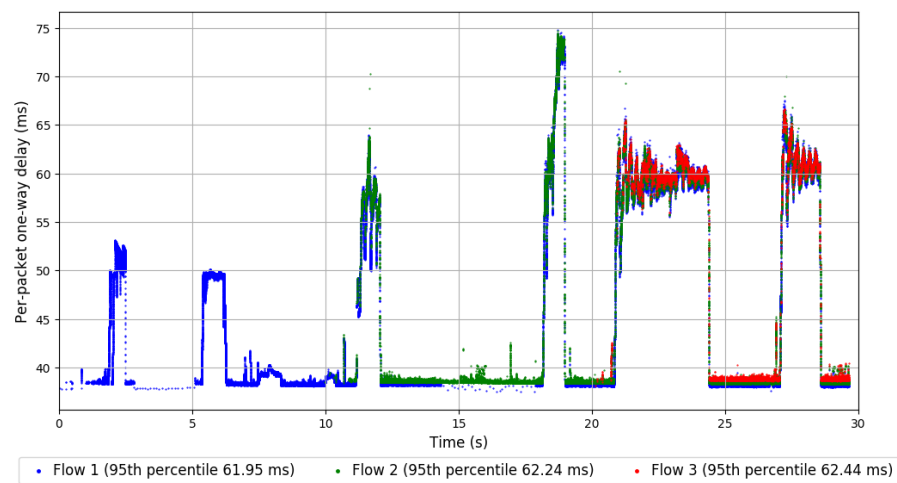
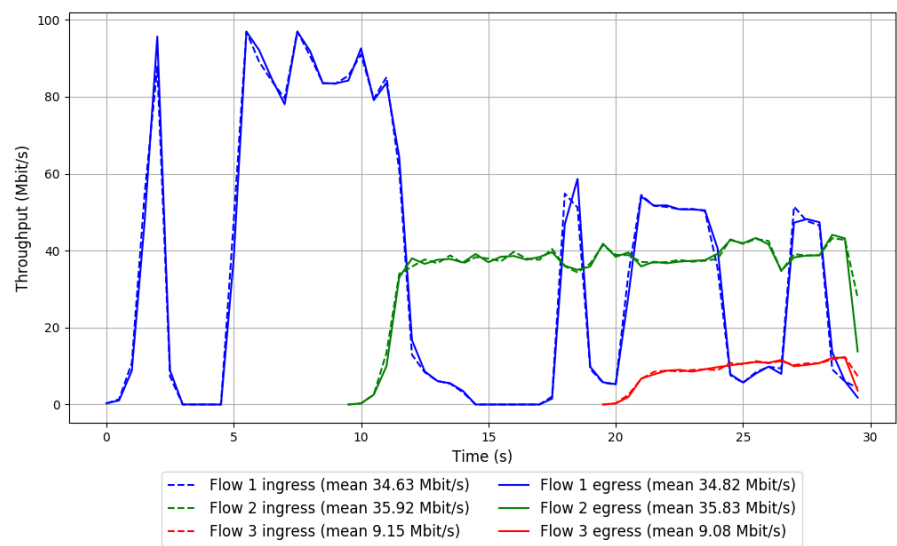


Run 8: Statistics of QUIC Cubic

Start at: 2018-04-24 19:52:27  
End at: 2018-04-24 19:52:57  
Local clock offset: -2.647 ms  
Remote clock offset: -0.783 ms

# Below is generated by plot.py at 2018-04-25 00:46:58  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 61.59 Mbit/s  
95th percentile per-packet one-way delay: 62.125 ms  
Loss rate: 0.68%  
-- Flow 1:  
Average throughput: 34.82 Mbit/s  
95th percentile per-packet one-way delay: 61.948 ms  
Loss rate: 0.14%  
-- Flow 2:  
Average throughput: 35.83 Mbit/s  
95th percentile per-packet one-way delay: 62.236 ms  
Loss rate: 1.21%  
-- Flow 3:  
Average throughput: 9.08 Mbit/s  
95th percentile per-packet one-way delay: 62.440 ms  
Loss rate: 2.64%

Run 8: Report of QUIC Cubic — Data Link



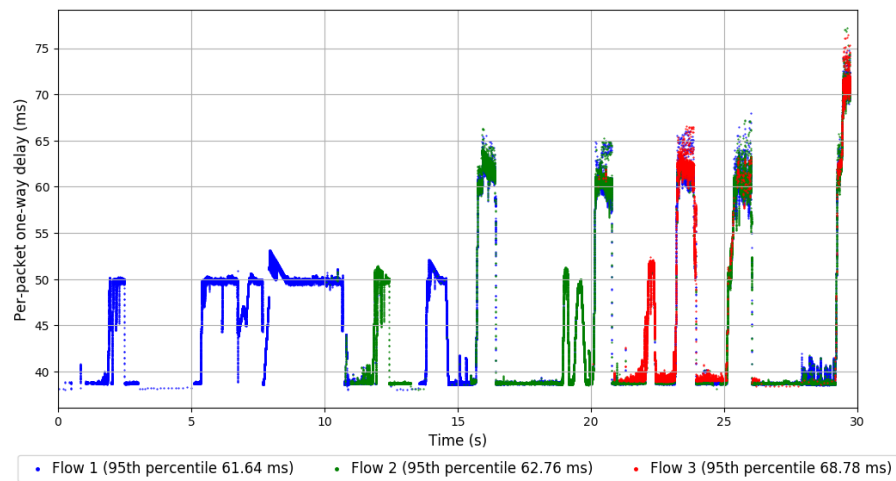
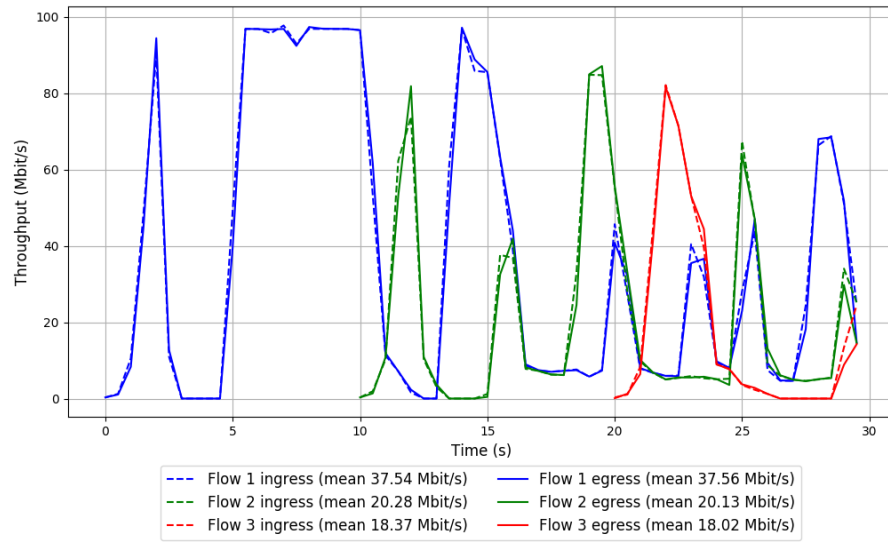


Run 9: Statistics of QUIC Cubic

Start at: 2018-04-24 20:15:34  
End at: 2018-04-24 20:16:04  
Local clock offset: 4.716 ms  
Remote clock offset: -0.684 ms

# Below is generated by plot.py at 2018-04-25 00:46:58  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 56.75 Mbit/s  
95th percentile per-packet one-way delay: 62.285 ms  
Loss rate: 1.30%  
-- Flow 1:  
Average throughput: 37.56 Mbit/s  
95th percentile per-packet one-way delay: 61.638 ms  
Loss rate: 0.64%  
-- Flow 2:  
Average throughput: 20.13 Mbit/s  
95th percentile per-packet one-way delay: 62.757 ms  
Loss rate: 1.91%  
-- Flow 3:  
Average throughput: 18.02 Mbit/s  
95th percentile per-packet one-way delay: 68.781 ms  
Loss rate: 4.08%

# Run 9: Report of QUIC Cubic — Data Link

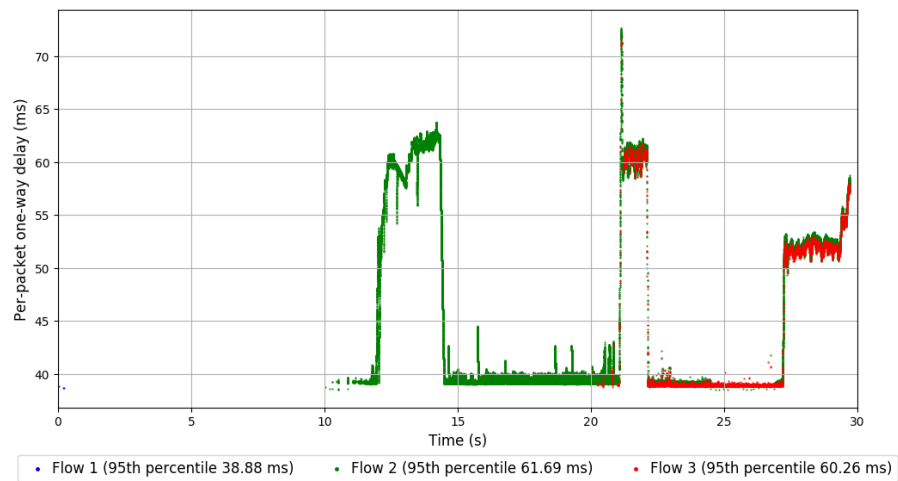
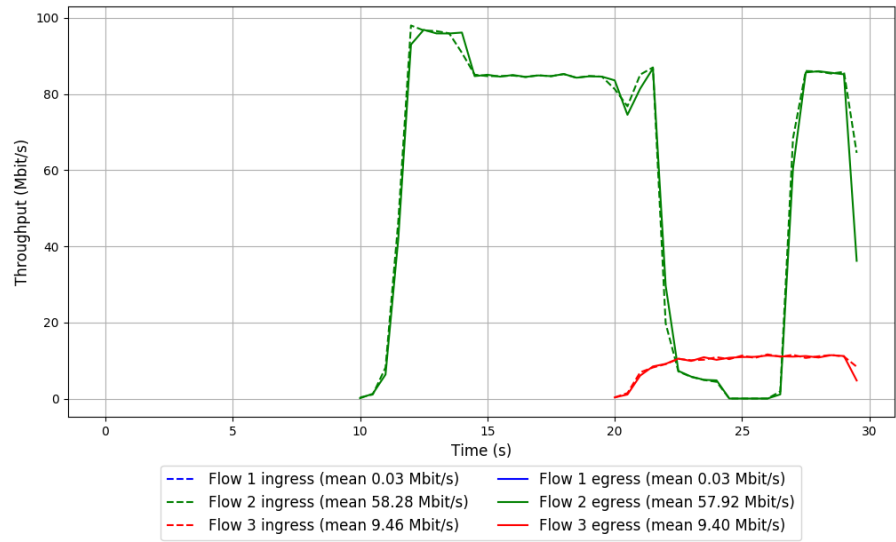


Run 10: Statistics of QUIC Cubic

Start at: 2018-04-24 20:38:27  
End at: 2018-04-24 20:38:57  
Local clock offset: 3.962 ms  
Remote clock offset: -0.519 ms

# Below is generated by plot.py at 2018-04-25 00:46:58  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 41.45 Mbit/s  
95th percentile per-packet one-way delay: 61.645 ms  
Loss rate: 1.70%  
-- Flow 1:  
Average throughput: 0.03 Mbit/s  
95th percentile per-packet one-way delay: 38.879 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 57.92 Mbit/s  
95th percentile per-packet one-way delay: 61.690 ms  
Loss rate: 1.63%  
-- Flow 3:  
Average throughput: 9.40 Mbit/s  
95th percentile per-packet one-way delay: 60.257 ms  
Loss rate: 2.56%

# Run 10: Report of QUIC Cubic — Data Link

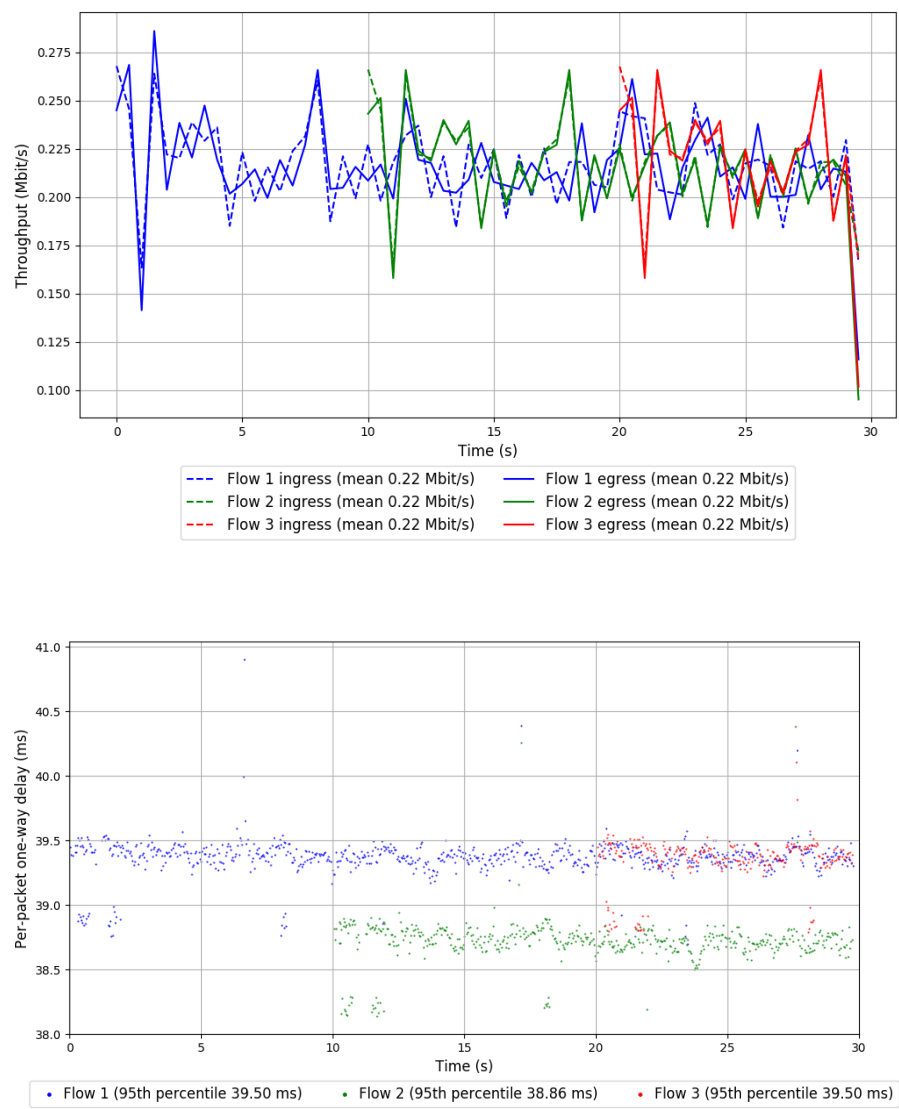


```
Run 1: Statistics of SReAM

Start at: 2018-04-24 17:05:21
End at: 2018-04-24 17:05:51
Local clock offset: -3.598 ms
Remote clock offset: -7.281 ms

# Below is generated by plot.py at 2018-04-25 00:46:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 39.482 ms
Loss rate: 0.92%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 39.497 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 38.856 ms
Loss rate: 1.05%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 39.503 ms
Loss rate: 1.86%
```

Run 1: Report of SReAM — Data Link

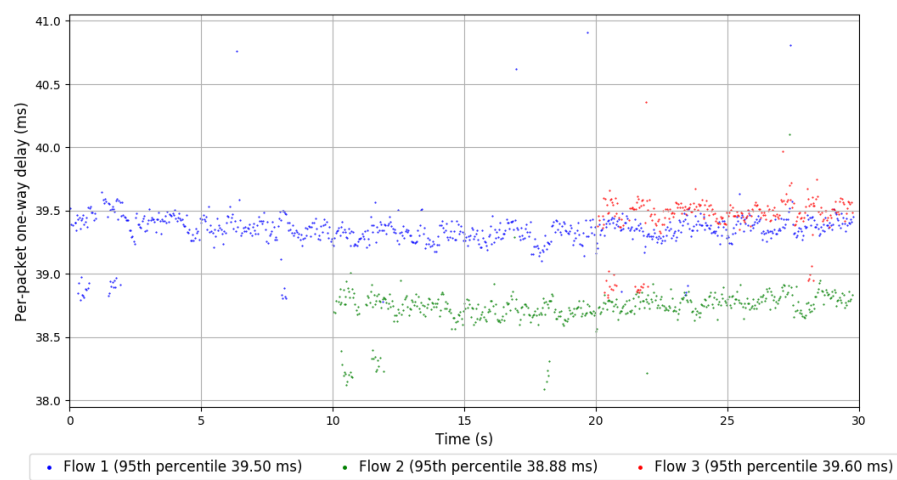
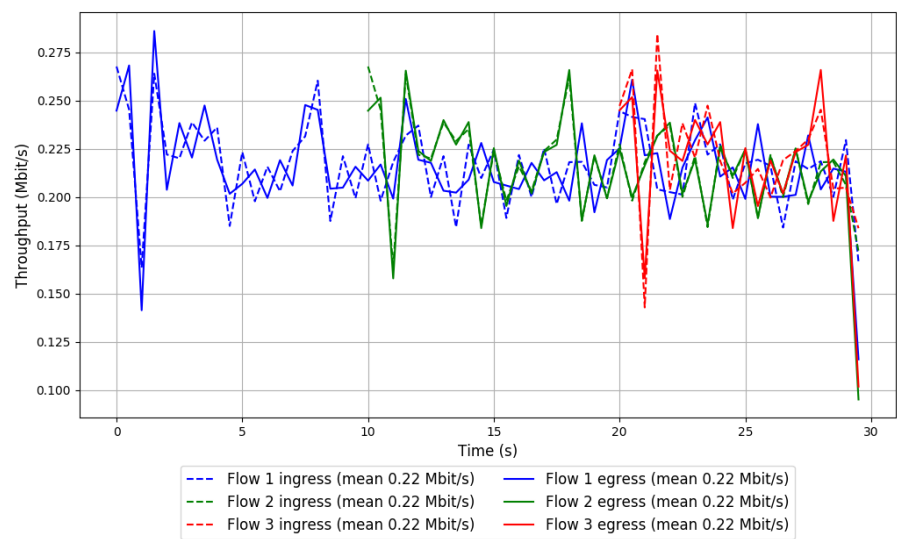


Run 2: Statistics of SReAM

Start at: 2018-04-24 17:28:14  
End at: 2018-04-24 17:28:44  
Local clock offset: -1.081 ms  
Remote clock offset: -6.997 ms

# Below is generated by plot.py at 2018-04-25 00:46:58  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 39.547 ms  
Loss rate: 0.92%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 39.499 ms  
Loss rate: 0.51%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 38.875 ms  
Loss rate: 1.05%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 39.596 ms  
Loss rate: 1.86%

Run 2: Report of SCRaM — Data Link



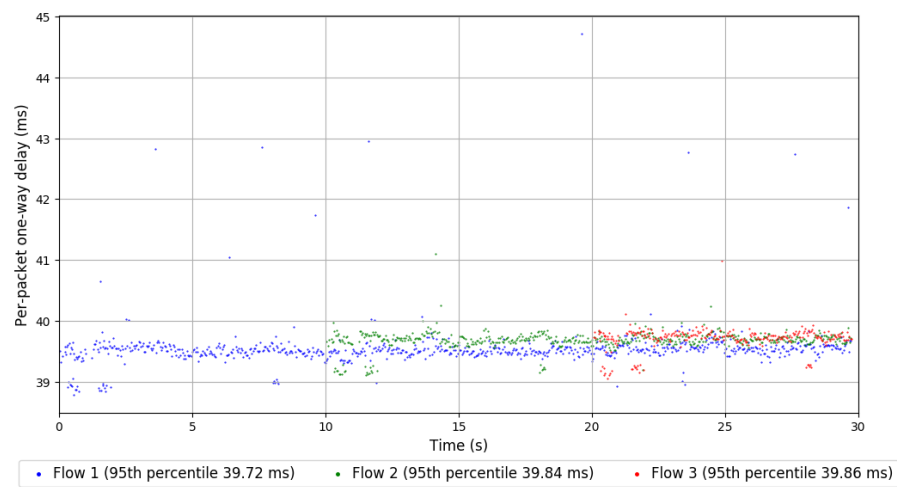
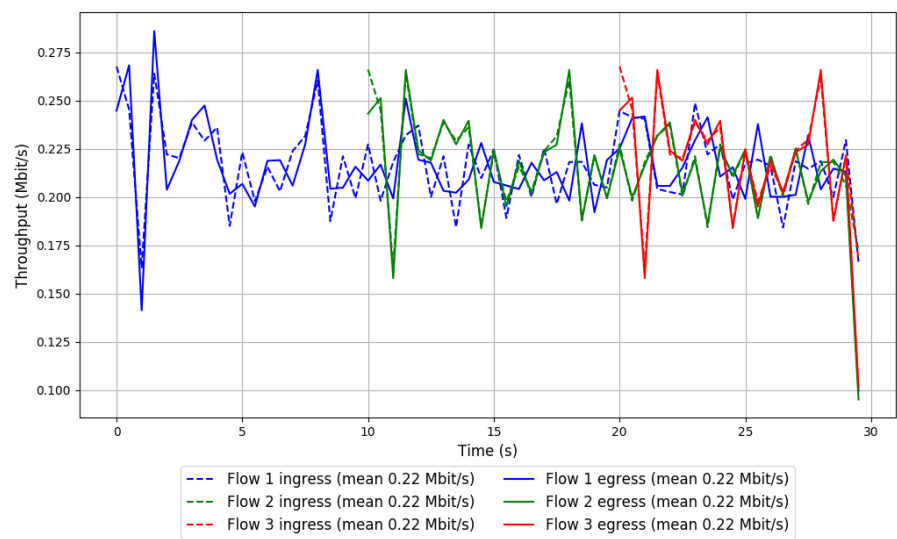


Run 3: Statistics of SReAM

Start at: 2018-04-24 17:51:18  
End at: 2018-04-24 17:51:48  
Local clock offset: -4.649 ms  
Remote clock offset: -1.988 ms

# Below is generated by plot.py at 2018-04-25 00:46:58  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 39.831 ms  
Loss rate: 0.98%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 39.722 ms  
Loss rate: 0.64%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 39.835 ms  
Loss rate: 1.05%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 39.856 ms  
Loss rate: 1.86%

Run 3: Report of SCRaM — Data Link

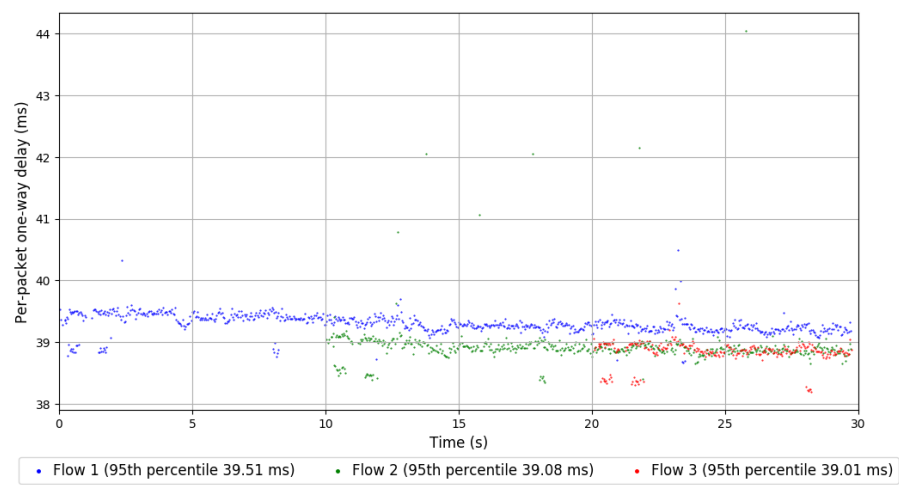
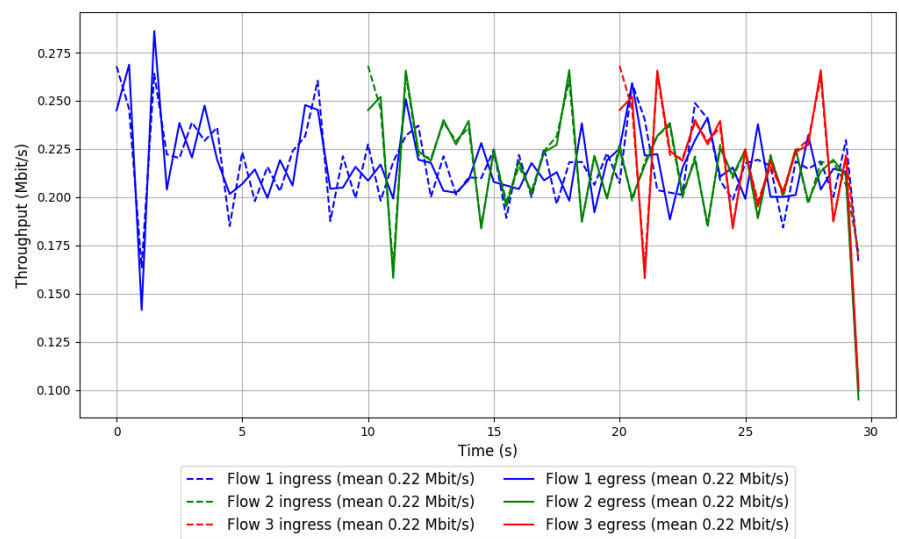


Run 4: Statistics of SReAM

Start at: 2018-04-24 18:14:12  
End at: 2018-04-24 18:14:42  
Local clock offset: -3.915 ms  
Remote clock offset: -1.384 ms

# Below is generated by plot.py at 2018-04-25 00:46:58  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 39.481 ms  
Loss rate: 0.98%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 39.506 ms  
Loss rate: 0.64%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 39.083 ms  
Loss rate: 1.05%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 39.010 ms  
Loss rate: 1.86%

Run 4: Report of SReAM — Data Link

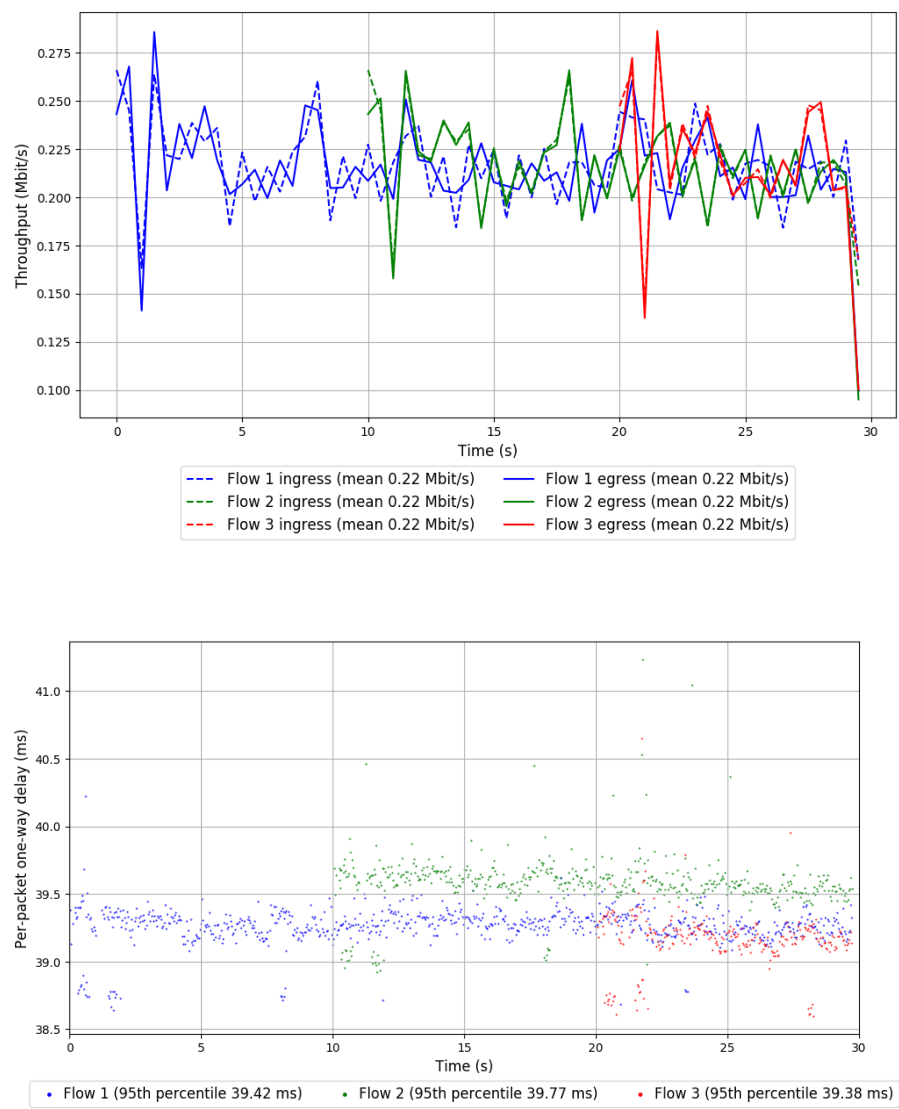


Run 5: Statistics of SReAM

Start at: 2018-04-24 18:37:06  
End at: 2018-04-24 18:37:36  
Local clock offset: -0.604 ms  
Remote clock offset: -1.501 ms

# Below is generated by plot.py at 2018-04-25 00:46:58  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 39.686 ms  
Loss rate: 0.92%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 39.424 ms  
Loss rate: 0.64%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 39.765 ms  
Loss rate: 0.85%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 39.382 ms  
Loss rate: 1.91%

Run 5: Report of SReAM — Data Link

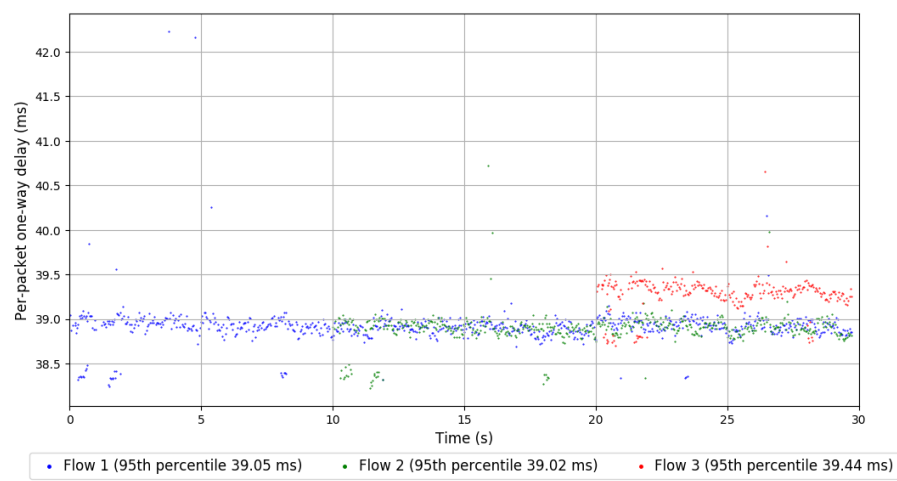
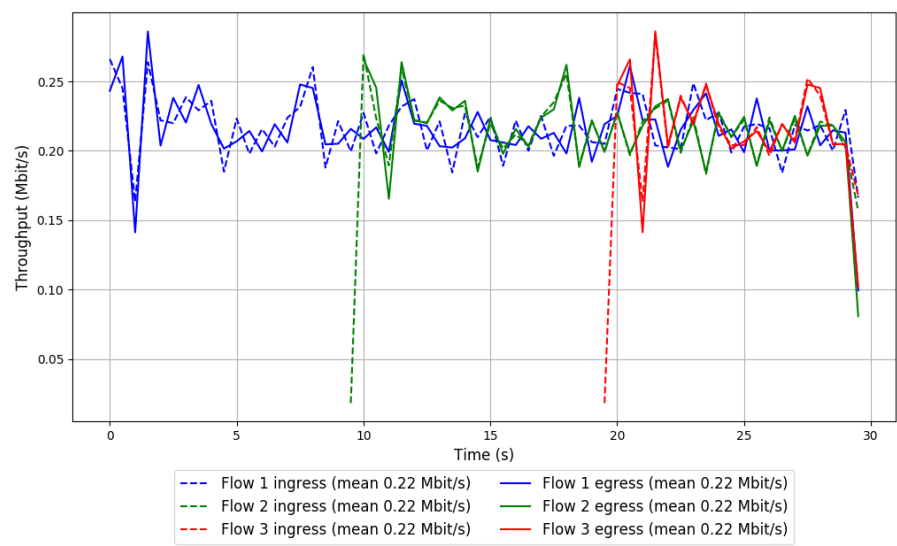


Run 6: Statistics of SReAM

Start at: 2018-04-24 18:59:59  
End at: 2018-04-24 19:00:29  
Local clock offset: 2.354 ms  
Remote clock offset: -1.569 ms

# Below is generated by plot.py at 2018-04-25 00:46:58  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.44 Mbit/s  
95th percentile per-packet one-way delay: 39.377 ms  
Loss rate: 0.98%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 39.049 ms  
Loss rate: 0.64%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 39.025 ms  
Loss rate: 1.05%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 39.440 ms  
Loss rate: 1.86%

Run 6: Report of SReAM — Data Link



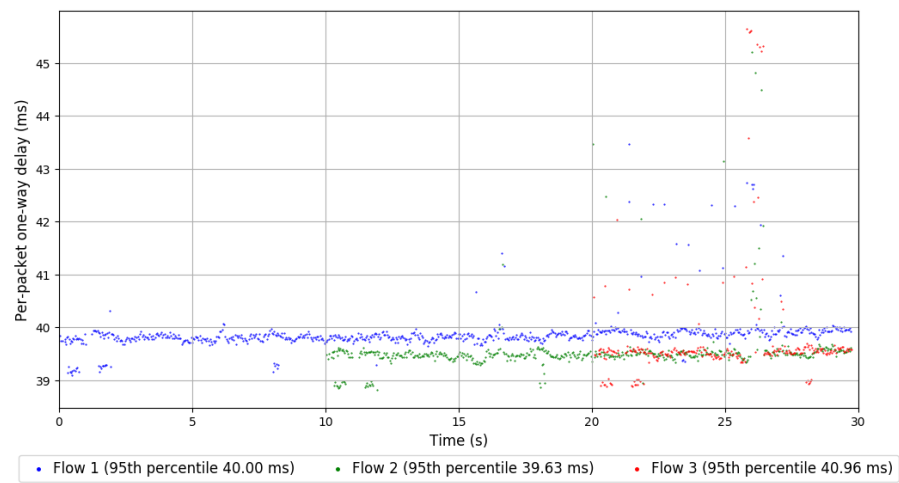
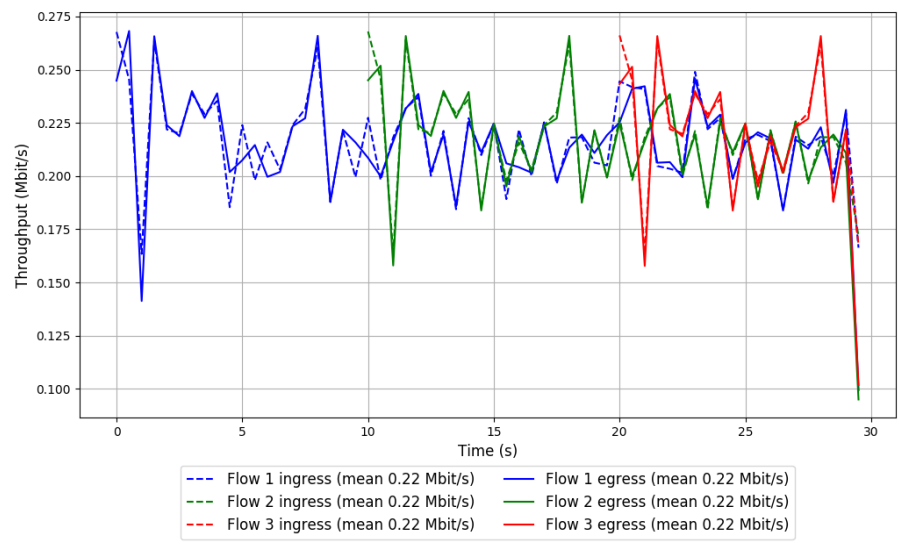


Run 7: Statistics of SReAM

Start at: 2018-04-24 19:22:52  
End at: 2018-04-24 19:23:22  
Local clock offset: 0.716 ms  
Remote clock offset: -1.133 ms

# Below is generated by plot.py at 2018-04-25 00:46:58  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 40.015 ms  
Loss rate: 0.98%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 40.002 ms  
Loss rate: 0.64%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 39.627 ms  
Loss rate: 1.05%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 40.961 ms  
Loss rate: 1.87%

Run 7: Report of SReAM — Data Link

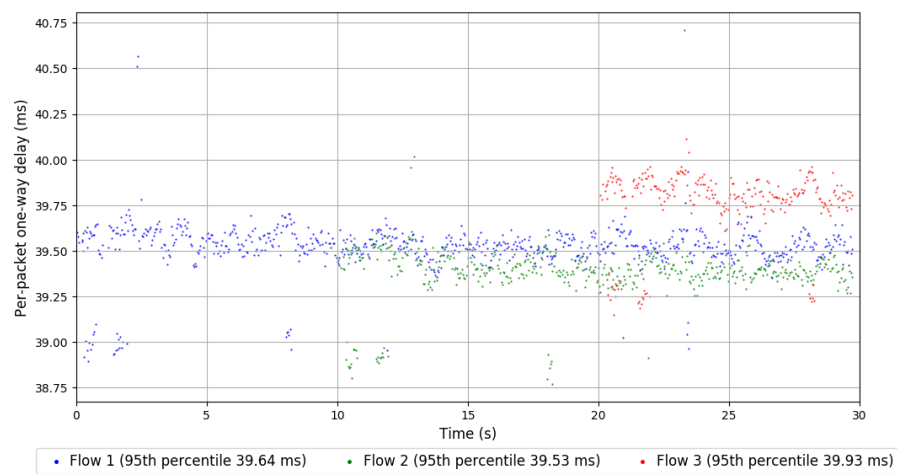
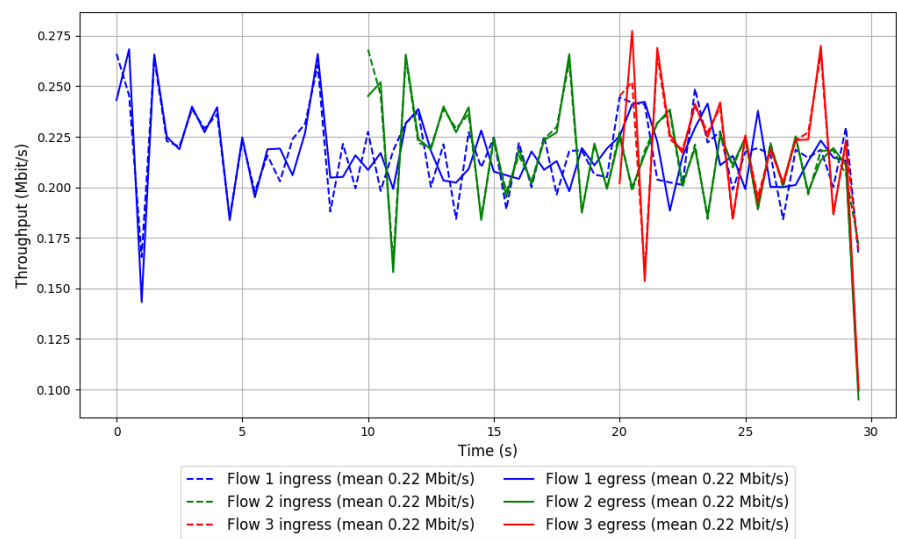


Run 8: Statistics of SReAM

Start at: 2018-04-24 19:45:41  
End at: 2018-04-24 19:46:11  
Local clock offset: -2.704 ms  
Remote clock offset: -0.827 ms

# Below is generated by plot.py at 2018-04-25 00:46:58  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 39.864 ms  
Loss rate: 0.99%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 39.644 ms  
Loss rate: 0.64%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 39.531 ms  
Loss rate: 1.05%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 39.932 ms  
Loss rate: 1.91%

Run 8: Report of SReAM — Data Link

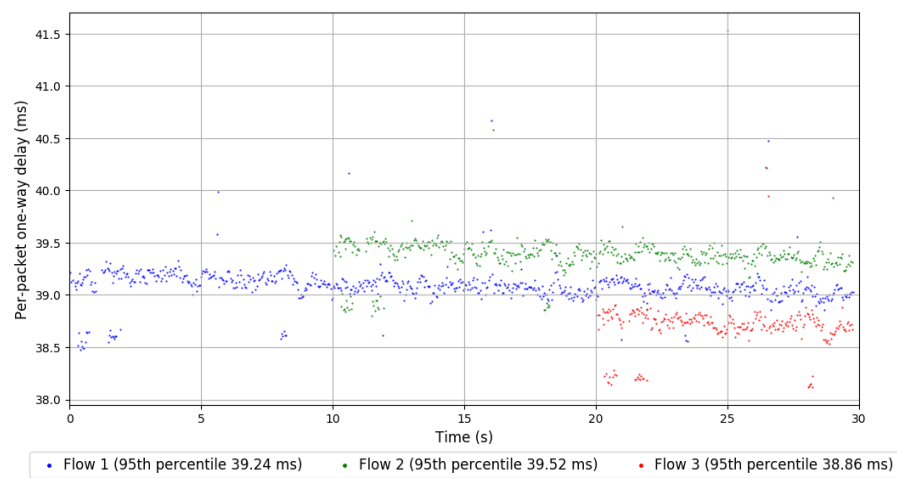
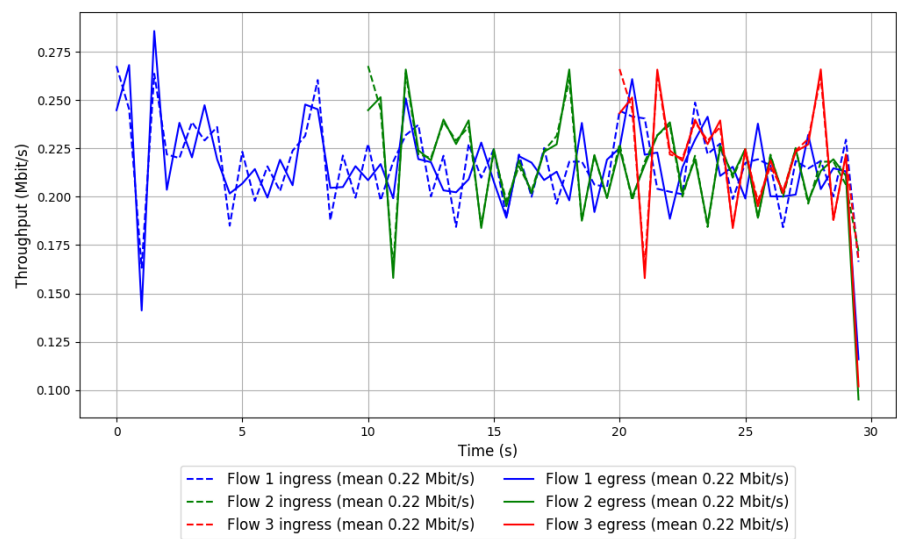


Run 9: Statistics of SReAM

Start at: 2018-04-24 20:08:33  
End at: 2018-04-24 20:09:03  
Local clock offset: 3.699 ms  
Remote clock offset: -0.684 ms

# Below is generated by plot.py at 2018-04-25 00:46:58  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 39.500 ms  
Loss rate: 0.92%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 39.236 ms  
Loss rate: 0.51%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 39.525 ms  
Loss rate: 1.05%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 38.862 ms  
Loss rate: 1.87%

Run 9: Report of SReAM — Data Link

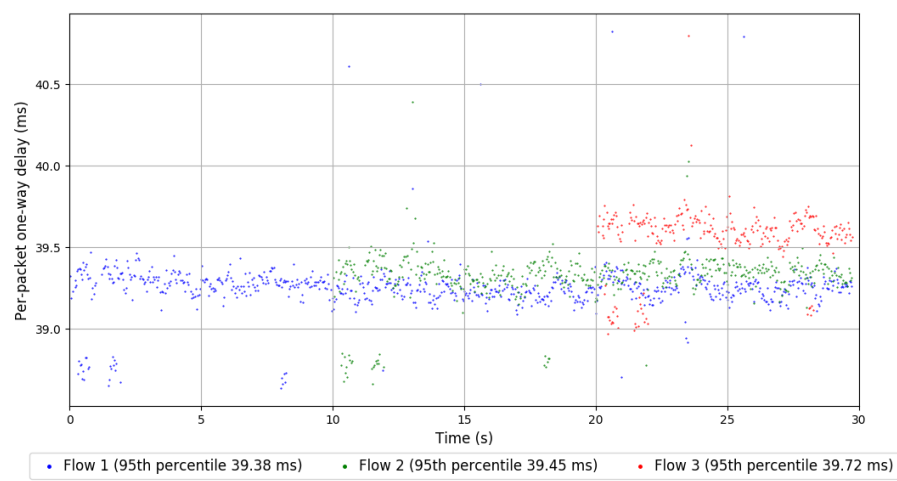
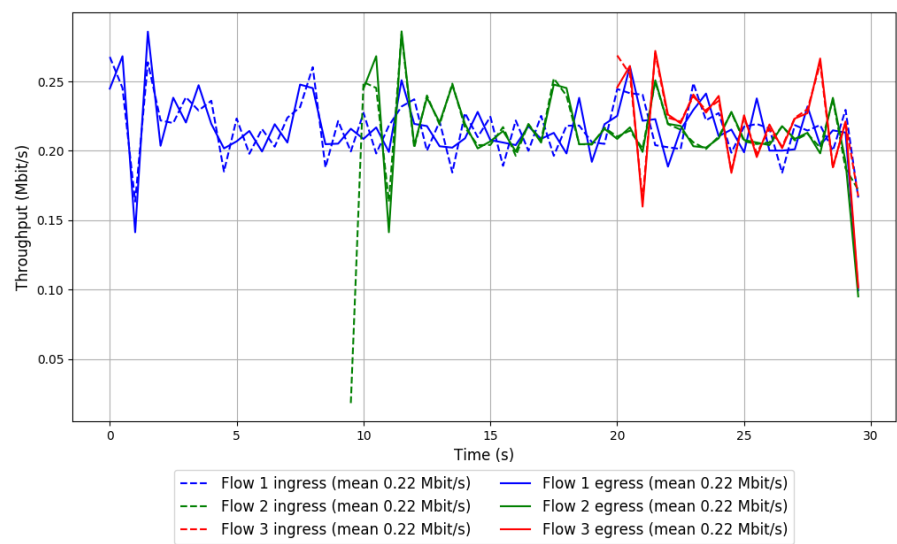


Run 10: Statistics of SReAM

Start at: 2018-04-24 20:31:42  
End at: 2018-04-24 20:32:12  
Local clock offset: 4.459 ms  
Remote clock offset: -0.568 ms

# Below is generated by plot.py at 2018-04-25 00:46:58  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.44 Mbit/s  
95th percentile per-packet one-way delay: 39.653 ms  
Loss rate: 0.98%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 39.376 ms  
Loss rate: 0.64%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 39.453 ms  
Loss rate: 1.05%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 39.723 ms  
Loss rate: 1.85%

Run 10: Report of SCReAM — Data Link



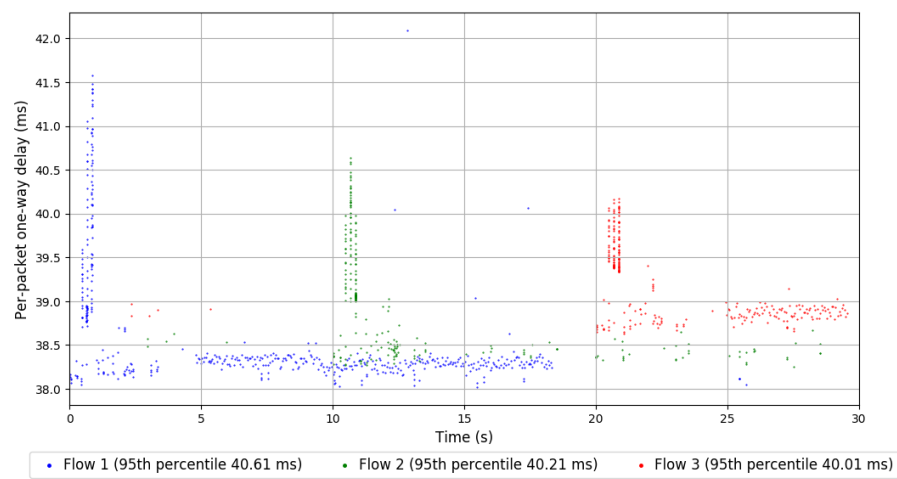
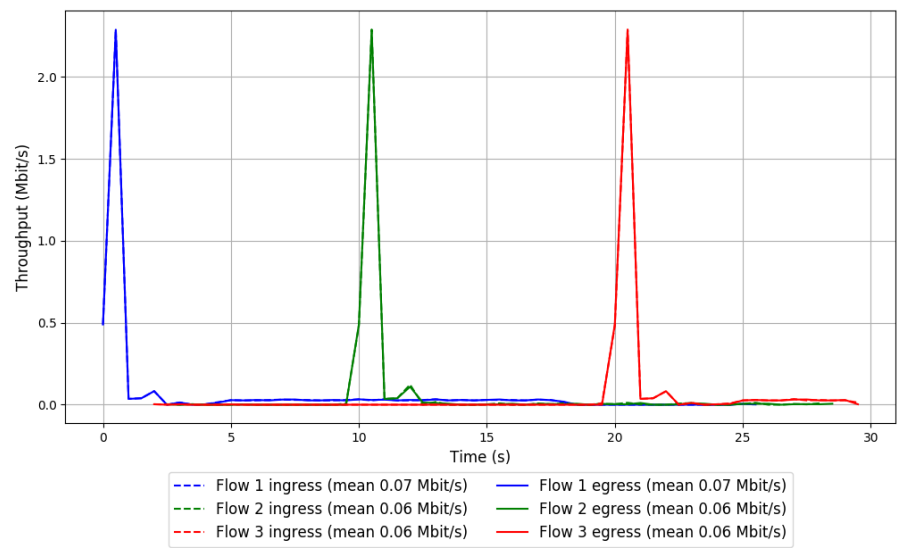


Run 1: Statistics of WebRTC media

Start at: 2018-04-24 17:04:05  
End at: 2018-04-24 17:04:35  
Local clock offset: -4.057 ms  
Remote clock offset: -7.715 ms

# Below is generated by plot.py at 2018-04-25 00:46:58  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.17 Mbit/s  
95th percentile per-packet one-way delay: 40.223 ms  
Loss rate: 0.10%  
-- Flow 1:  
Average throughput: 0.07 Mbit/s  
95th percentile per-packet one-way delay: 40.612 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.06 Mbit/s  
95th percentile per-packet one-way delay: 40.210 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.06 Mbit/s  
95th percentile per-packet one-way delay: 40.011 ms  
Loss rate: 0.33%

Run 1: Report of WebRTC media — Data Link

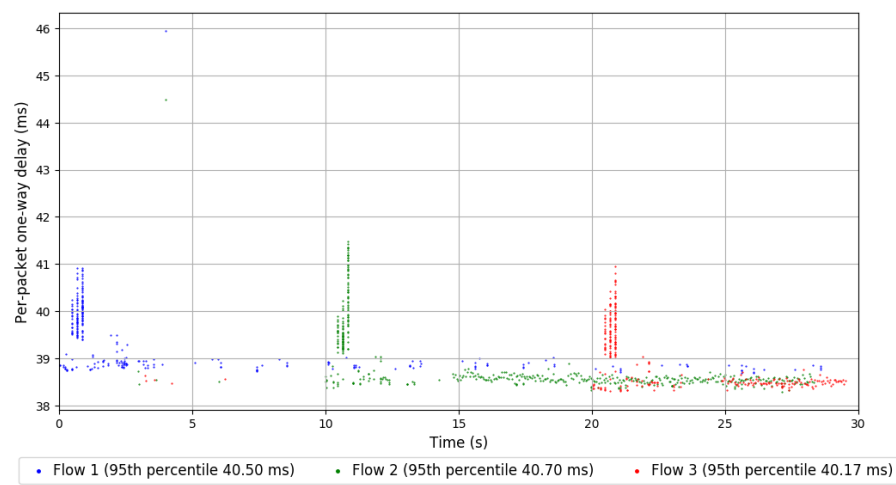
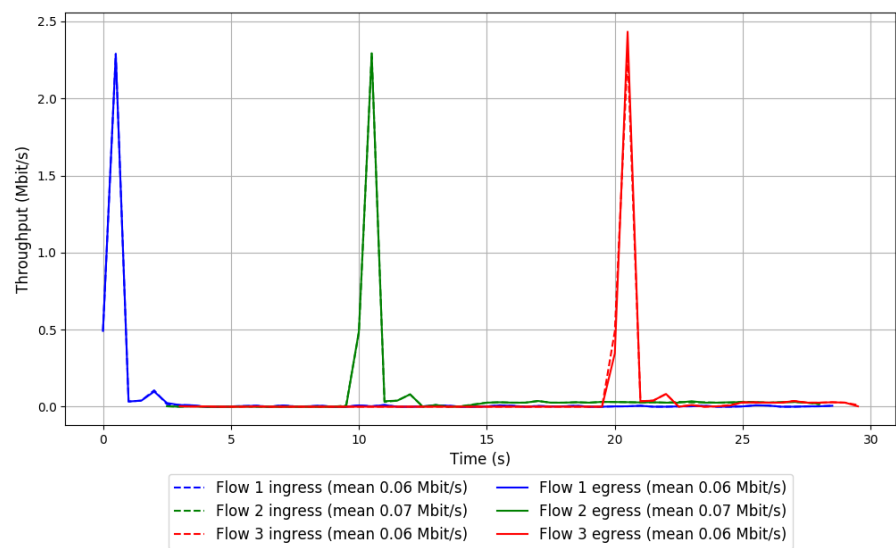


Run 2: Statistics of WebRTC media

Start at: 2018-04-24 17:26:58  
End at: 2018-04-24 17:27:28  
Local clock offset: -0.999 ms  
Remote clock offset: -6.772 ms

# Below is generated by plot.py at 2018-04-25 00:46:58  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.17 Mbit/s  
95th percentile per-packet one-way delay: 40.438 ms  
Loss rate: 0.10%  
-- Flow 1:  
Average throughput: 0.06 Mbit/s  
95th percentile per-packet one-way delay: 40.500 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.07 Mbit/s  
95th percentile per-packet one-way delay: 40.705 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.06 Mbit/s  
95th percentile per-packet one-way delay: 40.173 ms  
Loss rate: 0.32%

Run 2: Report of WebRTC media — Data Link

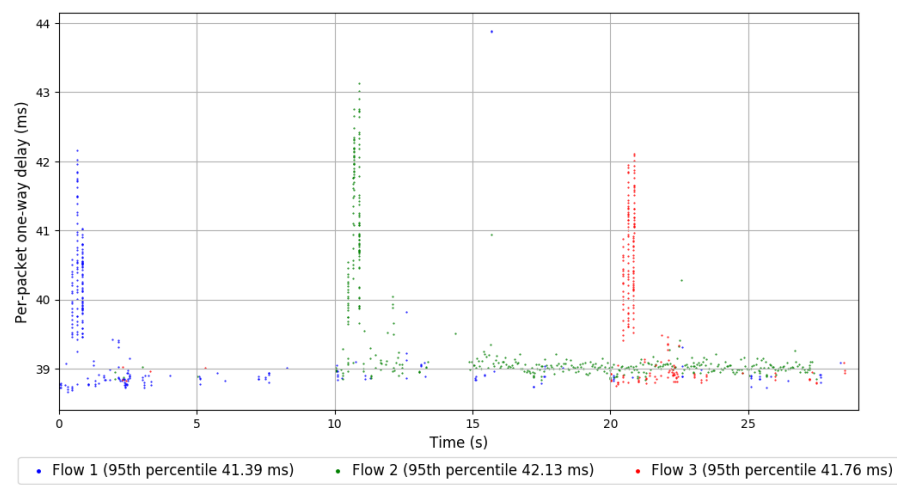
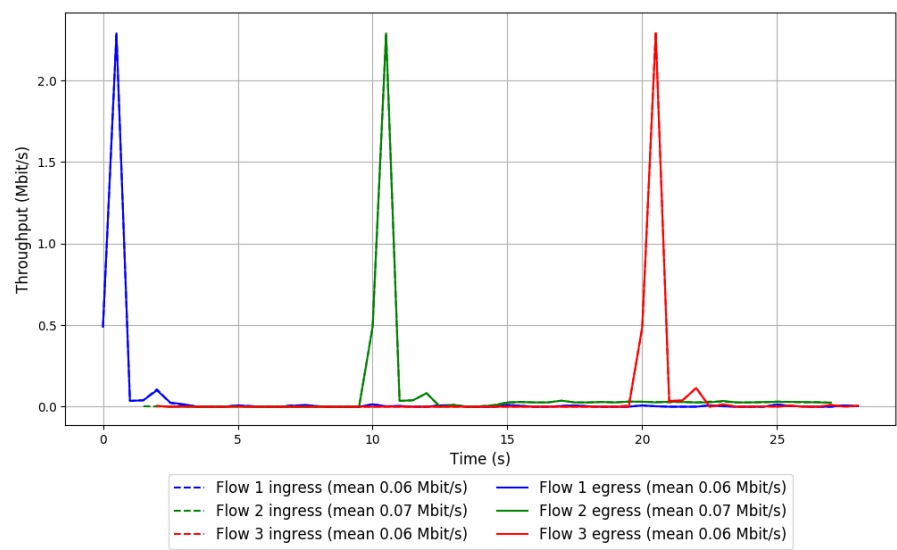


Run 3: Statistics of WebRTC media

Start at: 2018-04-24 17:50:02  
End at: 2018-04-24 17:50:32  
Local clock offset: -4.454 ms  
Remote clock offset: -2.013 ms

# Below is generated by plot.py at 2018-04-25 00:46:58  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.17 Mbit/s  
95th percentile per-packet one-way delay: 41.855 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.06 Mbit/s  
95th percentile per-packet one-way delay: 41.393 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.07 Mbit/s  
95th percentile per-packet one-way delay: 42.130 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.06 Mbit/s  
95th percentile per-packet one-way delay: 41.759 ms  
Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link

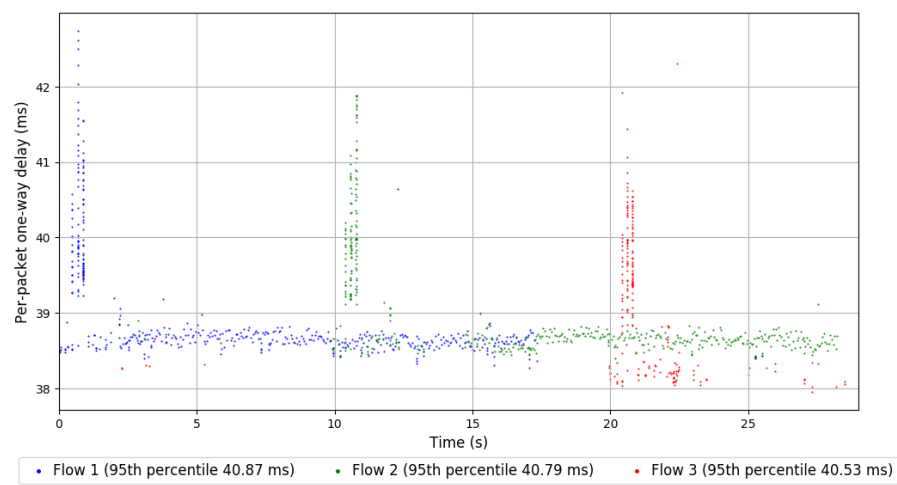
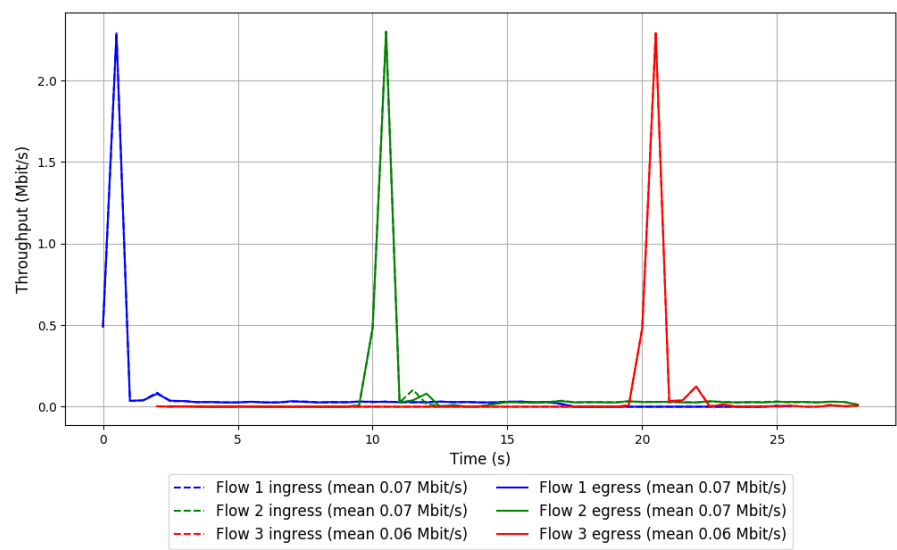


Run 4: Statistics of WebRTC media

Start at: 2018-04-24 18:12:56  
End at: 2018-04-24 18:13:26  
Local clock offset: -4.339 ms  
Remote clock offset: -1.417 ms

# Below is generated by plot.py at 2018-04-25 00:46:58  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.19 Mbit/s  
95th percentile per-packet one-way delay: 40.765 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.07 Mbit/s  
95th percentile per-packet one-way delay: 40.867 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.07 Mbit/s  
95th percentile per-packet one-way delay: 40.793 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.06 Mbit/s  
95th percentile per-packet one-way delay: 40.535 ms  
Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link





Run 5: Statistics of WebRTC media

Start at: 2018-04-24 18:35:50

End at: 2018-04-24 18:36:20

Local clock offset: -0.644 ms

Remote clock offset: -1.49 ms

# Below is generated by plot.py at 2018-04-25 00:46:58

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.17 Mbit/s

95th percentile per-packet one-way delay: 40.455 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 40.270 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.08 Mbit/s

95th percentile per-packet one-way delay: 40.741 ms

Loss rate: 0.00%

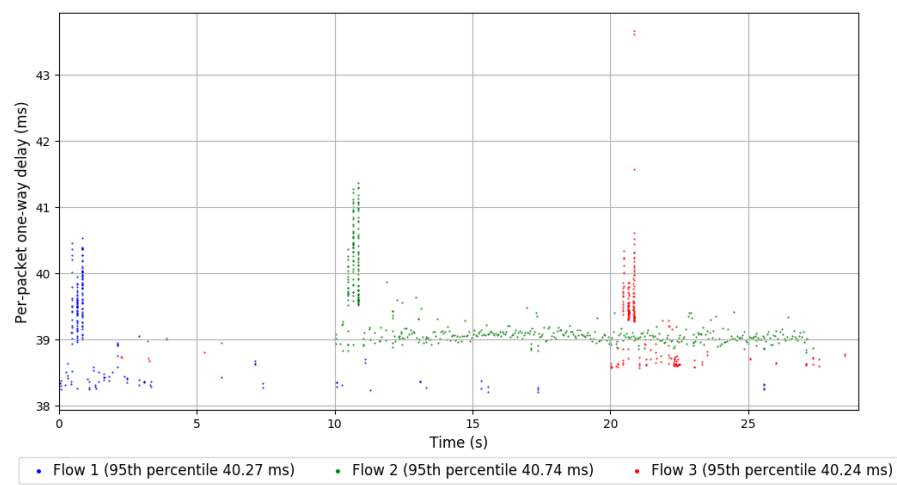
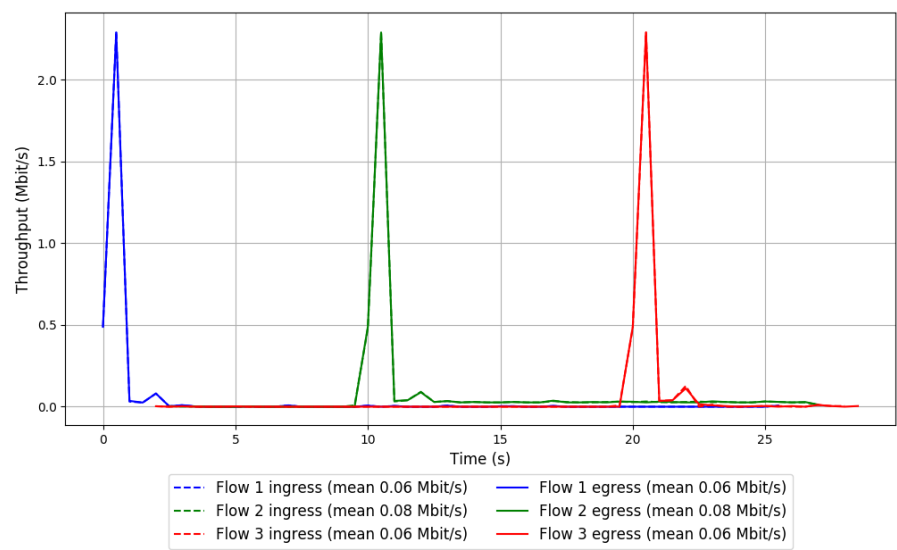
-- Flow 3:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 40.237 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

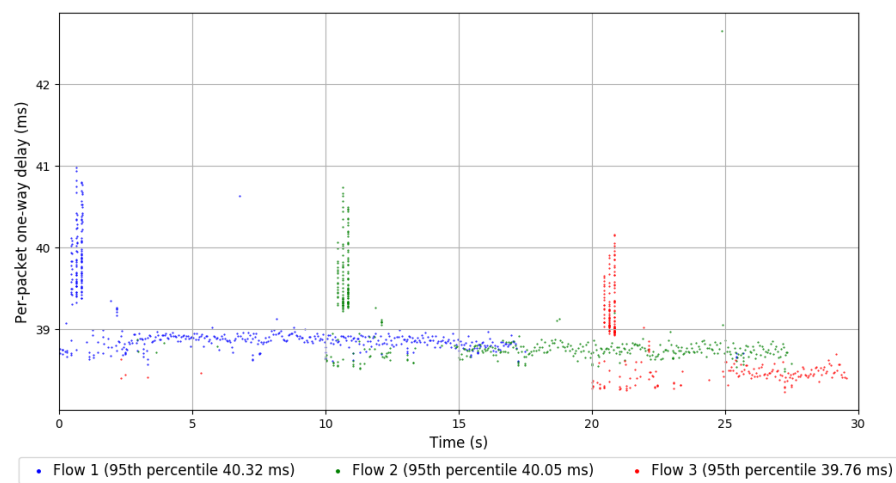
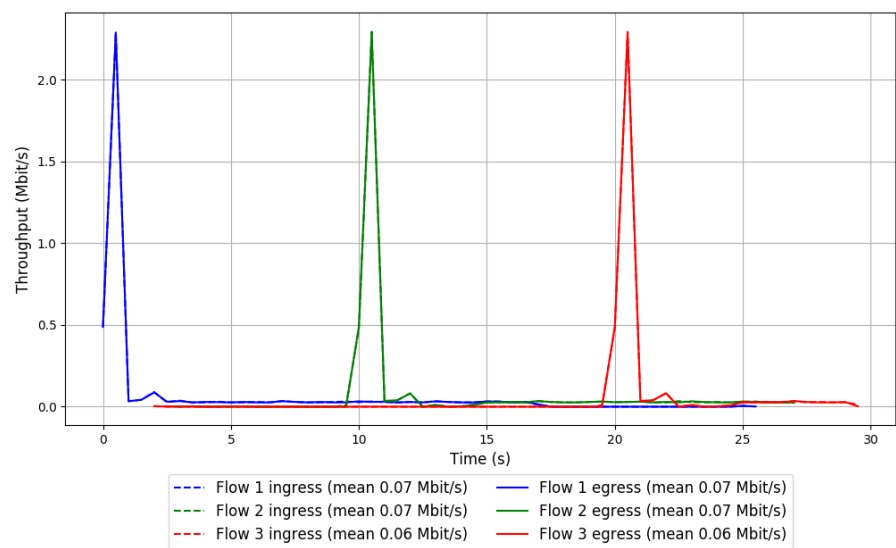


Run 6: Statistics of WebRTC media

Start at: 2018-04-24 18:58:43  
End at: 2018-04-24 18:59:13  
Local clock offset: 2.305 ms  
Remote clock offset: -1.554 ms

# Below is generated by plot.py at 2018-04-25 00:46:58  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.18 Mbit/s  
95th percentile per-packet one-way delay: 40.070 ms  
Loss rate: 0.10%  
-- Flow 1:  
Average throughput: 0.07 Mbit/s  
95th percentile per-packet one-way delay: 40.317 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.07 Mbit/s  
95th percentile per-packet one-way delay: 40.053 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.06 Mbit/s  
95th percentile per-packet one-way delay: 39.763 ms  
Loss rate: 0.32%

Run 6: Report of WebRTC media — Data Link

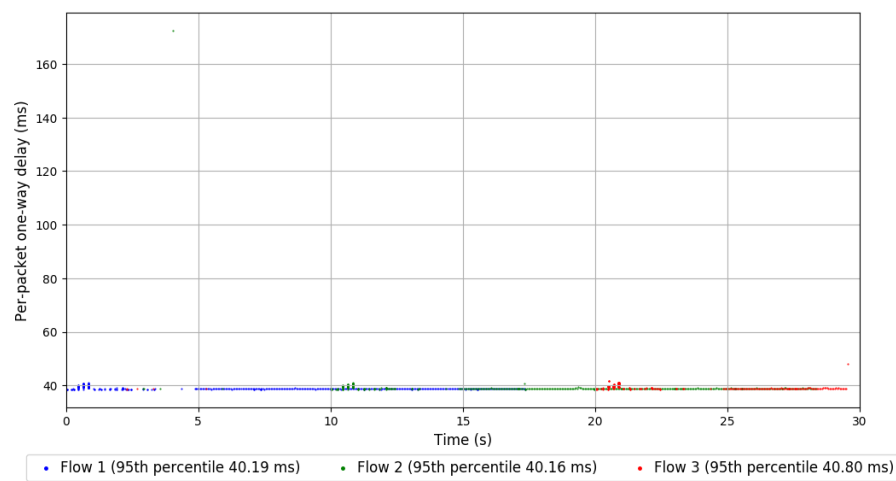
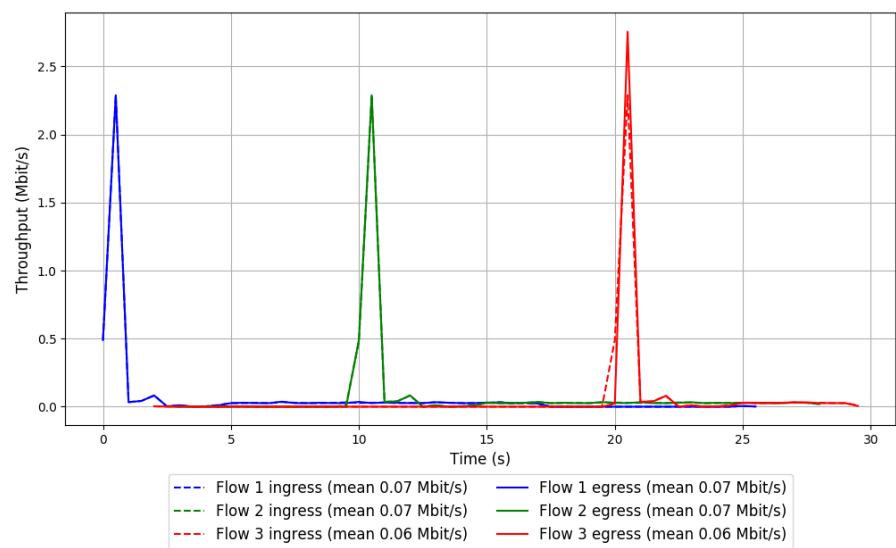


Run 7: Statistics of WebRTC media

Start at: 2018-04-24 19:21:35  
End at: 2018-04-24 19:22:05  
Local clock offset: 1.025 ms  
Remote clock offset: -1.115 ms

# Below is generated by plot.py at 2018-04-25 00:46:58  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.18 Mbit/s  
95th percentile per-packet one-way delay: 40.404 ms  
Loss rate: 0.07%  
-- Flow 1:  
Average throughput: 0.07 Mbit/s  
95th percentile per-packet one-way delay: 40.192 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.07 Mbit/s  
95th percentile per-packet one-way delay: 40.161 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.06 Mbit/s  
95th percentile per-packet one-way delay: 40.801 ms  
Loss rate: 0.24%

Run 7: Report of WebRTC media — Data Link

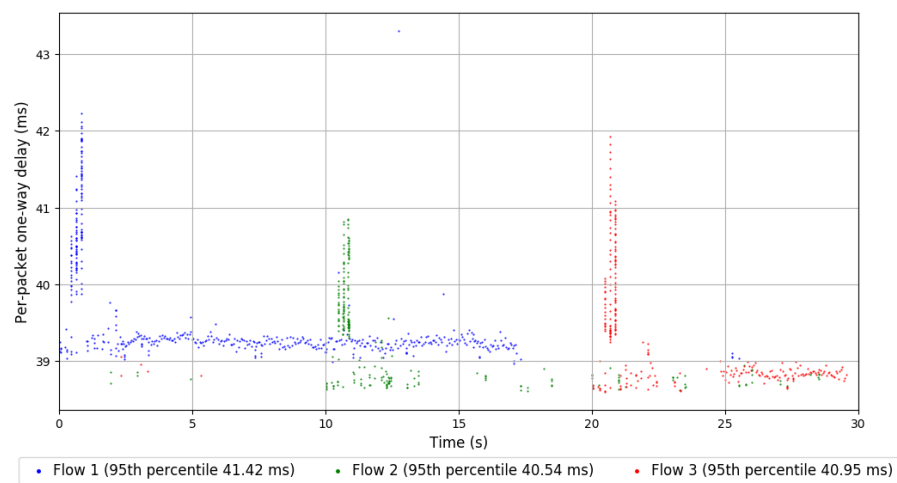
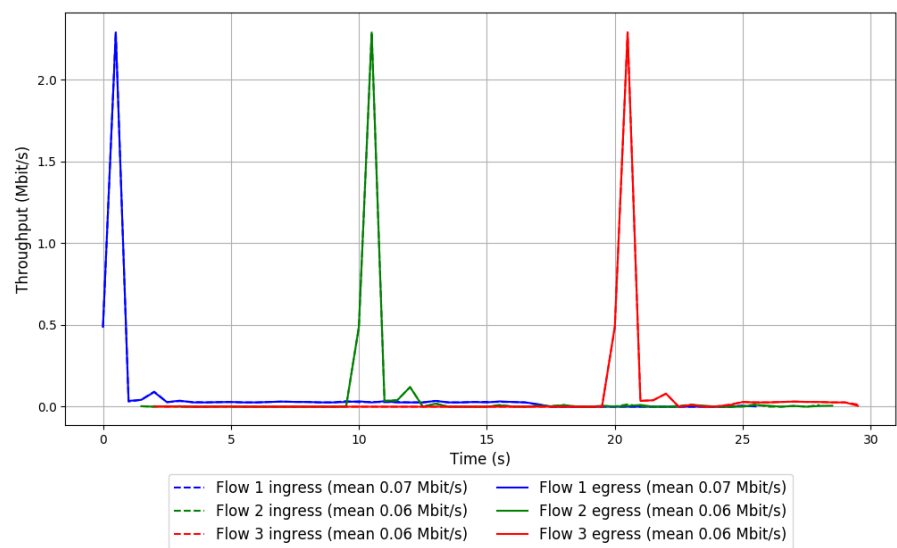


Run 8: Statistics of WebRTC media

Start at: 2018-04-24 19:44:25  
End at: 2018-04-24 19:44:55  
Local clock offset: -2.78 ms  
Remote clock offset: -0.843 ms

# Below is generated by plot.py at 2018-04-25 00:46:58  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.17 Mbit/s  
95th percentile per-packet one-way delay: 41.038 ms  
Loss rate: 0.10%  
-- Flow 1:  
Average throughput: 0.07 Mbit/s  
95th percentile per-packet one-way delay: 41.425 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.06 Mbit/s  
95th percentile per-packet one-way delay: 40.538 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.06 Mbit/s  
95th percentile per-packet one-way delay: 40.948 ms  
Loss rate: 0.32%

Run 8: Report of WebRTC media — Data Link



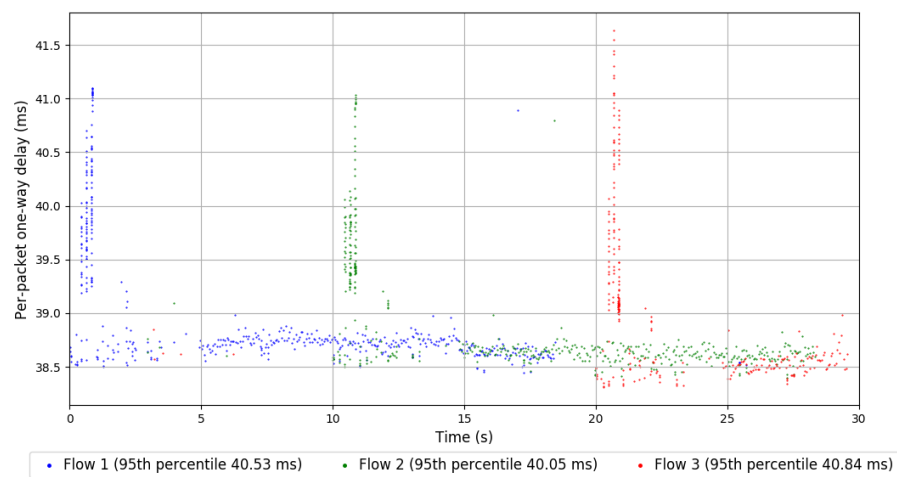
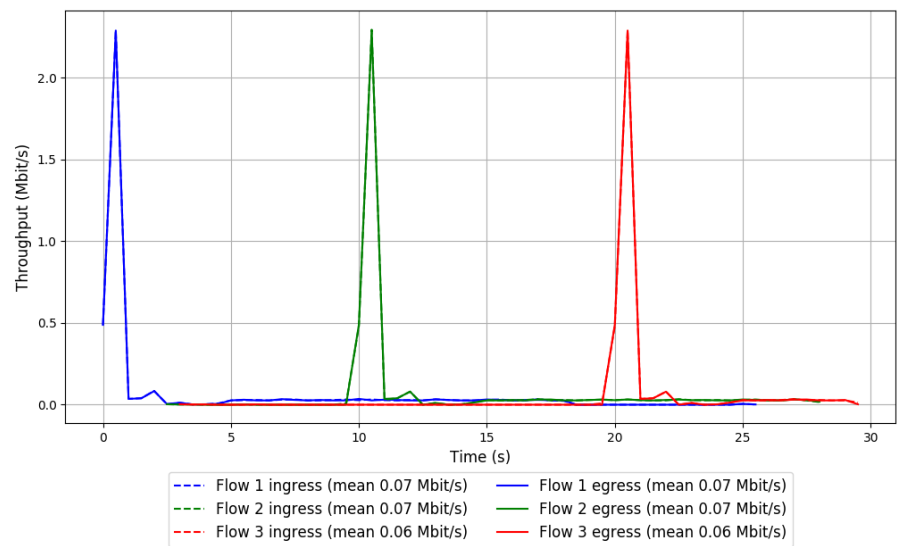


Run 9: Statistics of WebRTC media

Start at: 2018-04-24 20:07:17  
End at: 2018-04-24 20:07:47  
Local clock offset: 3.44 ms  
Remote clock offset: -0.677 ms

# Below is generated by plot.py at 2018-04-25 00:46:58  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.18 Mbit/s  
95th percentile per-packet one-way delay: 40.527 ms  
Loss rate: 0.10%  
-- Flow 1:  
Average throughput: 0.07 Mbit/s  
95th percentile per-packet one-way delay: 40.527 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.07 Mbit/s  
95th percentile per-packet one-way delay: 40.050 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.06 Mbit/s  
95th percentile per-packet one-way delay: 40.845 ms  
Loss rate: 0.32%

Run 9: Report of WebRTC media — Data Link

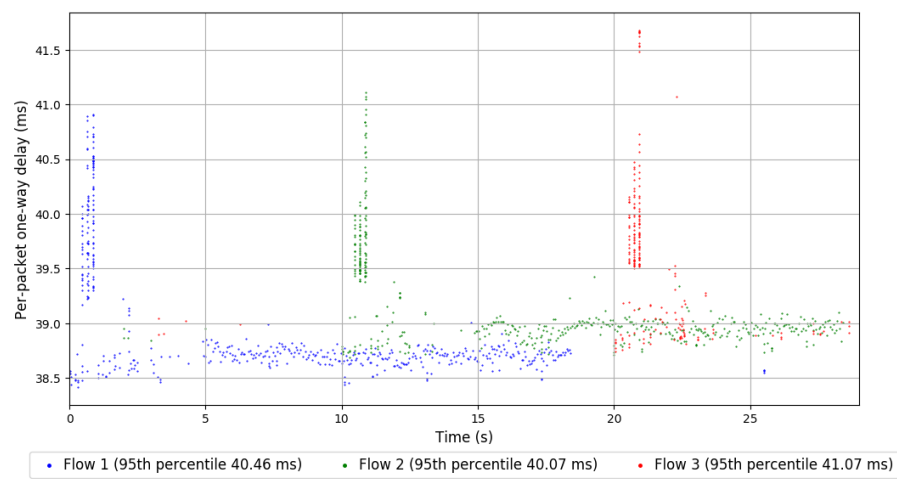
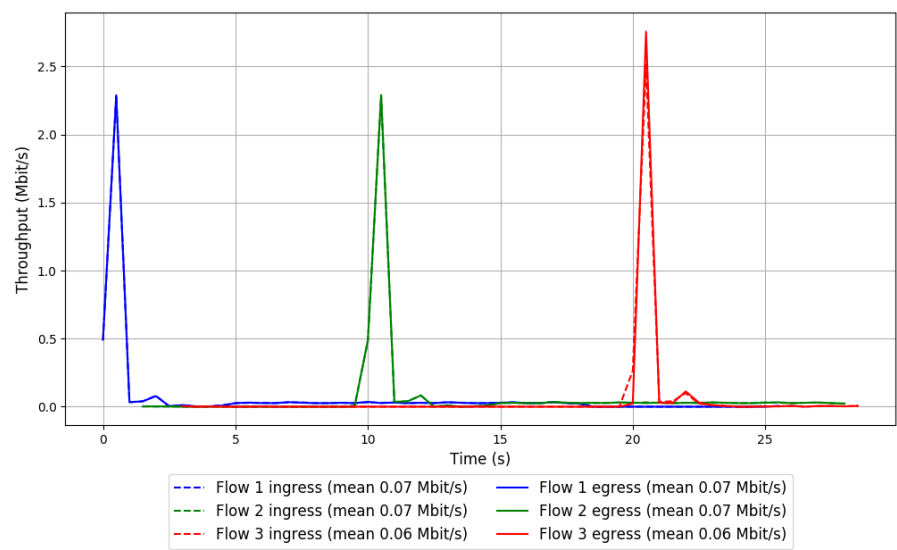


Run 10: Statistics of WebRTC media

Start at: 2018-04-24 20:30:25  
End at: 2018-04-24 20:30:55  
Local clock offset: 4.845 ms  
Remote clock offset: -0.545 ms

# Below is generated by plot.py at 2018-04-25 00:46:58  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.18 Mbit/s  
95th percentile per-packet one-way delay: 40.429 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.07 Mbit/s  
95th percentile per-packet one-way delay: 40.457 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.07 Mbit/s  
95th percentile per-packet one-way delay: 40.074 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.06 Mbit/s  
95th percentile per-packet one-way delay: 41.068 ms  
Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

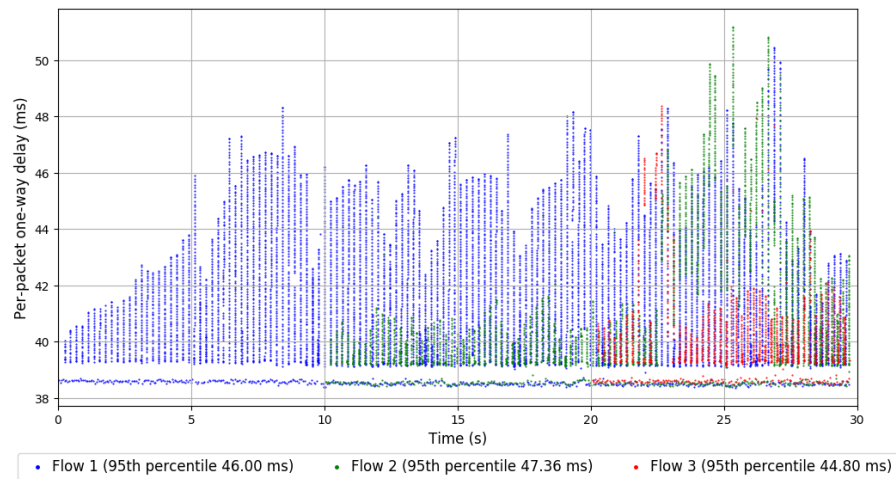
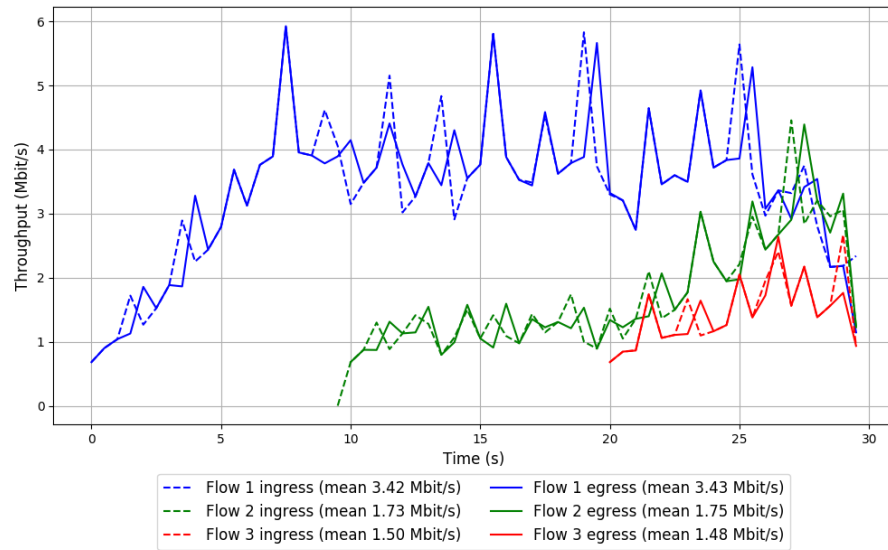


Run 1: Statistics of Sprout

Start at: 2018-04-24 17:16:08  
End at: 2018-04-24 17:16:38  
Local clock offset: -1.396 ms  
Remote clock offset: -5.878 ms

# Below is generated by plot.py at 2018-04-25 00:46:58  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 5.07 Mbit/s  
95th percentile per-packet one-way delay: 46.169 ms  
Loss rate: 0.69%  
-- Flow 1:  
Average throughput: 3.43 Mbit/s  
95th percentile per-packet one-way delay: 45.996 ms  
Loss rate: 0.58%  
-- Flow 2:  
Average throughput: 1.75 Mbit/s  
95th percentile per-packet one-way delay: 47.362 ms  
Loss rate: 0.01%  
-- Flow 3:  
Average throughput: 1.48 Mbit/s  
95th percentile per-packet one-way delay: 44.797 ms  
Loss rate: 3.05%

# Run 1: Report of Sprout — Data Link

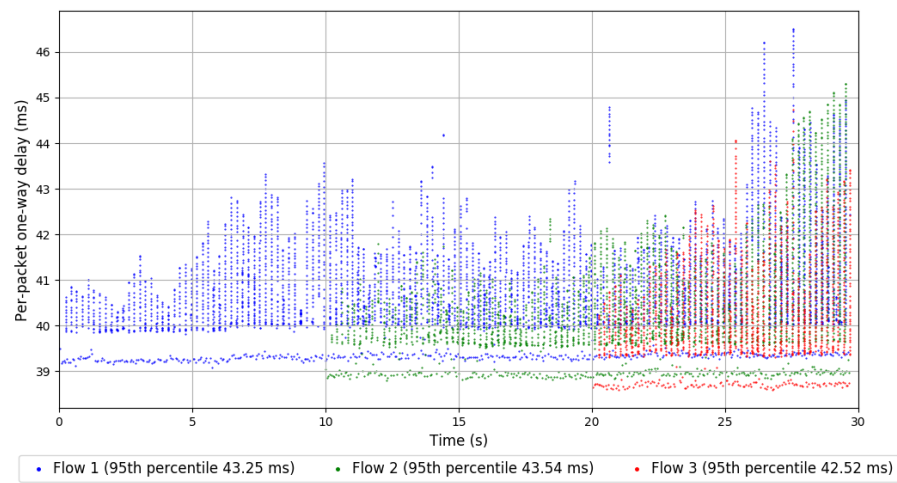
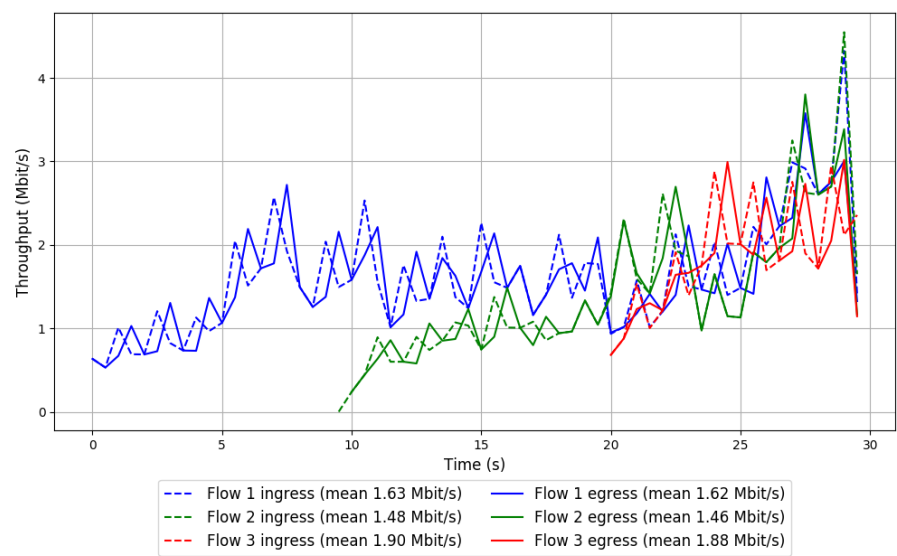


## Run 2: Statistics of Sprout

Start at: 2018-04-24 17:39:01  
End at: 2018-04-24 17:39:31  
Local clock offset: -2.371 ms  
Remote clock offset: -3.013 ms

```
# Below is generated by plot.py at 2018-04-25 00:46:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.19 Mbit/s
95th percentile per-packet one-way delay: 43.185 ms
Loss rate: 2.20%
-- Flow 1:
Average throughput: 1.62 Mbit/s
95th percentile per-packet one-way delay: 43.252 ms
Loss rate: 1.45%
-- Flow 2:
Average throughput: 1.46 Mbit/s
95th percentile per-packet one-way delay: 43.539 ms
Loss rate: 2.79%
-- Flow 3:
Average throughput: 1.88 Mbit/s
95th percentile per-packet one-way delay: 42.522 ms
Loss rate: 3.25%
```

Run 2: Report of Sprout — Data Link



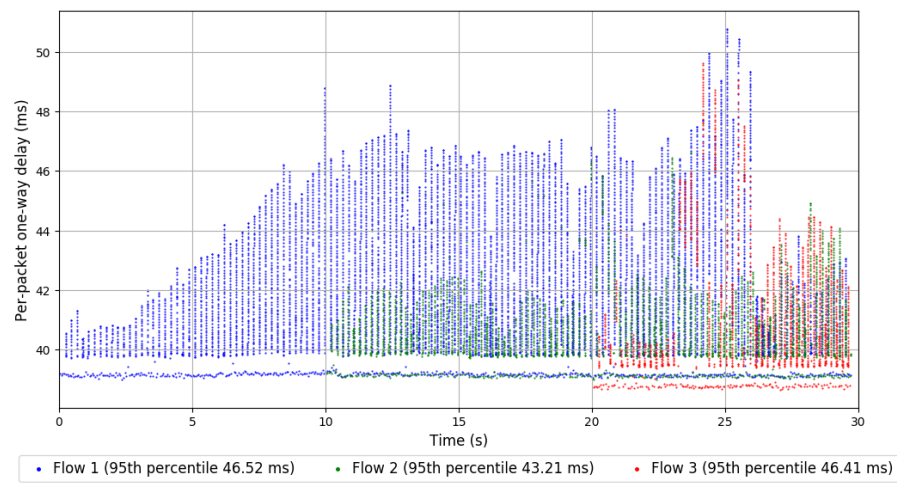
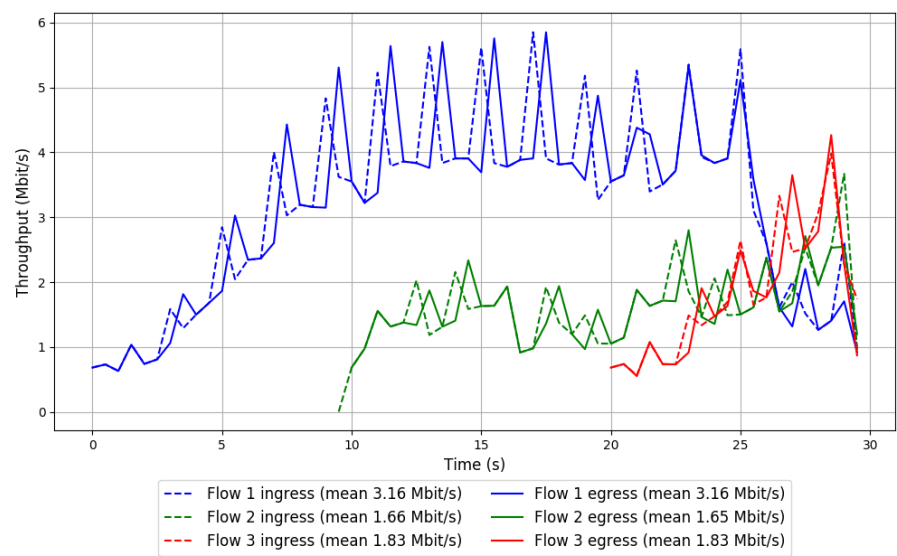


### Run 3: Statistics of Sprout

Start at: 2018-04-24 18:02:07  
End at: 2018-04-24 18:02:37  
Local clock offset: -5.916 ms  
Remote clock offset: -2.165 ms

```
# Below is generated by plot.py at 2018-04-25 00:46:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.85 Mbit/s
95th percentile per-packet one-way delay: 46.260 ms
Loss rate: 0.93%
-- Flow 1:
Average throughput: 3.16 Mbit/s
95th percentile per-packet one-way delay: 46.516 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 1.65 Mbit/s
95th percentile per-packet one-way delay: 43.206 ms
Loss rate: 1.33%
-- Flow 3:
Average throughput: 1.83 Mbit/s
95th percentile per-packet one-way delay: 46.409 ms
Loss rate: 2.42%
```

Run 3: Report of Sprout — Data Link

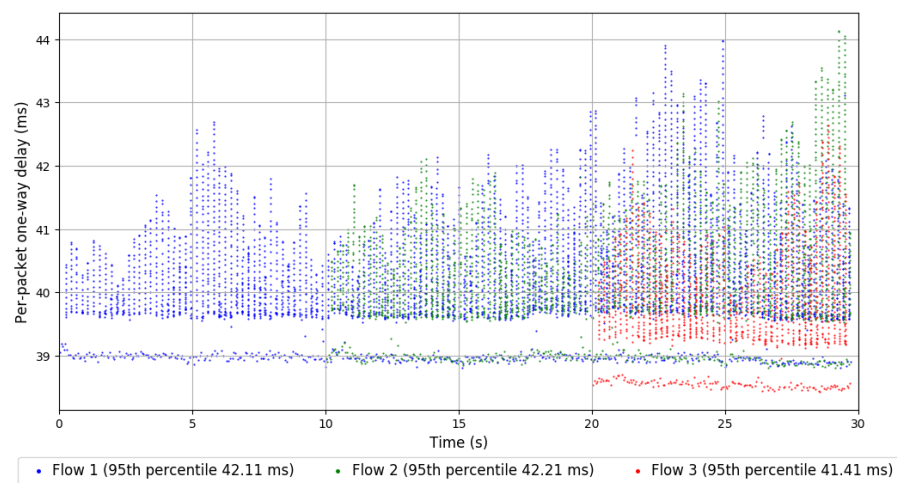
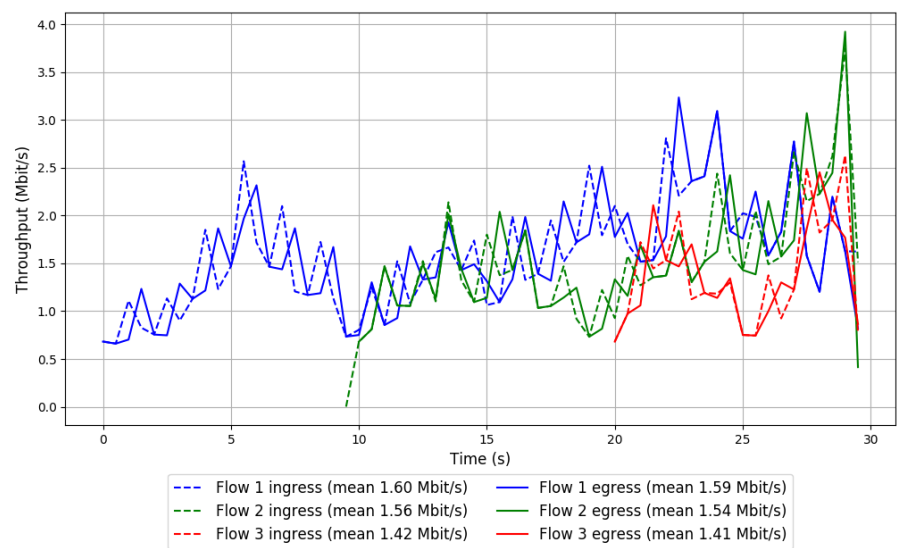


#### Run 4: Statistics of Sprout

Start at: 2018-04-24 18:25:00  
End at: 2018-04-24 18:25:30  
Local clock offset: -1.47 ms  
Remote clock offset: -1.382 ms

```
# Below is generated by plot.py at 2018-04-25 00:46:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.07 Mbit/s
95th percentile per-packet one-way delay: 42.066 ms
Loss rate: 1.45%
-- Flow 1:
Average throughput: 1.59 Mbit/s
95th percentile per-packet one-way delay: 42.108 ms
Loss rate: 0.85%
-- Flow 2:
Average throughput: 1.54 Mbit/s
95th percentile per-packet one-way delay: 42.213 ms
Loss rate: 1.78%
-- Flow 3:
Average throughput: 1.41 Mbit/s
95th percentile per-packet one-way delay: 41.413 ms
Loss rate: 2.79%
```

Run 4: Report of Sprout — Data Link

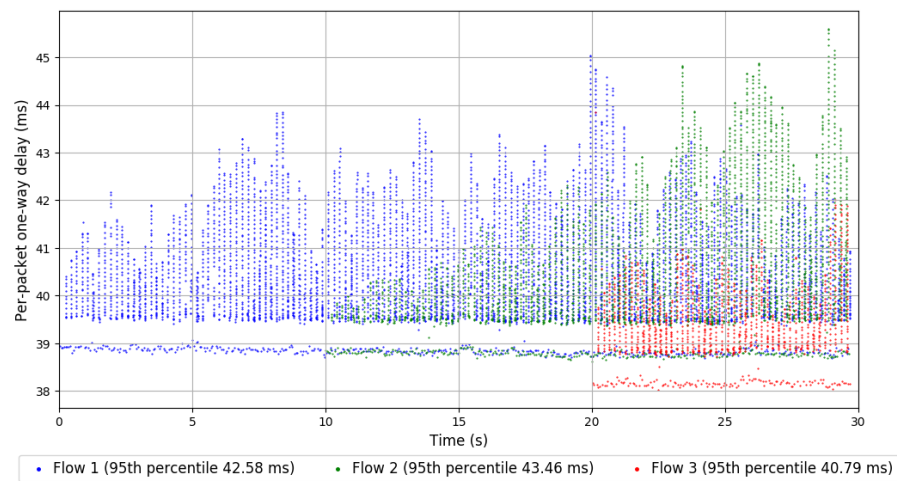
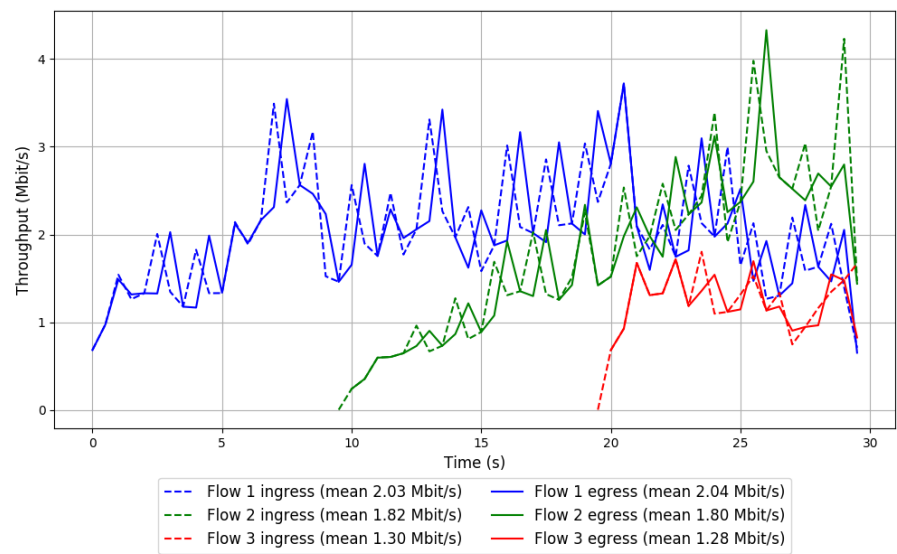


Run 5: Statistics of Sprout

Start at: 2018-04-24 18:47:53  
End at: 2018-04-24 18:48:23  
Local clock offset: 0.667 ms  
Remote clock offset: -1.49 ms

```
# Below is generated by plot.py at 2018-04-25 00:46:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.65 Mbit/s
95th percentile per-packet one-way delay: 42.823 ms
Loss rate: 1.08%
-- Flow 1:
Average throughput: 2.04 Mbit/s
95th percentile per-packet one-way delay: 42.584 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 1.80 Mbit/s
95th percentile per-packet one-way delay: 43.457 ms
Loss rate: 2.03%
-- Flow 3:
Average throughput: 1.28 Mbit/s
95th percentile per-packet one-way delay: 40.789 ms
Loss rate: 3.32%
```

Run 5: Report of Sprout — Data Link

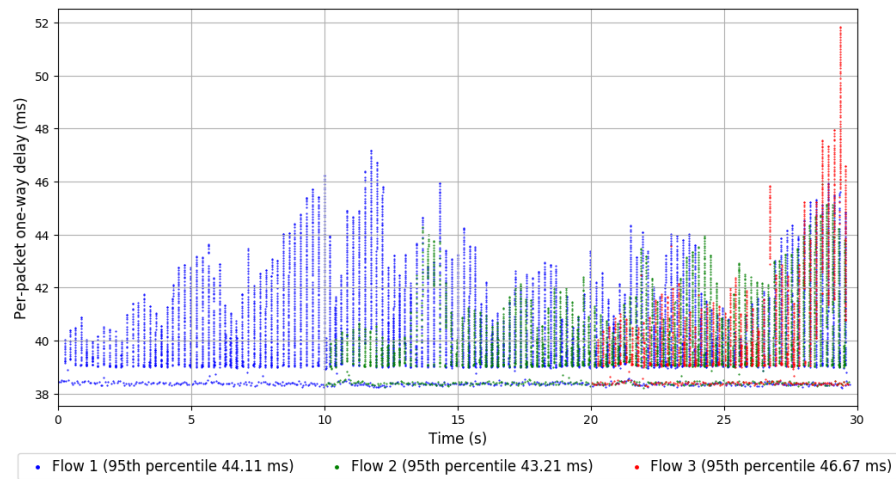
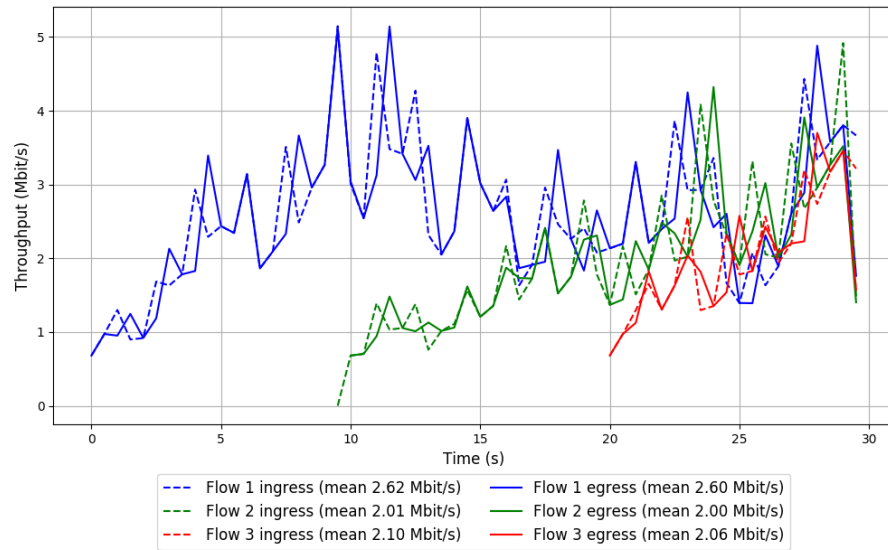


Run 6: Statistics of Sprout

Start at: 2018-04-24 19:10:47  
End at: 2018-04-24 19:11:17  
Local clock offset: 3.228 ms  
Remote clock offset: -1.689 ms

# Below is generated by plot.py at 2018-04-25 00:46:58  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 4.59 Mbit/s  
95th percentile per-packet one-way delay: 44.213 ms  
Loss rate: 1.81%  
-- Flow 1:  
Average throughput: 2.60 Mbit/s  
95th percentile per-packet one-way delay: 44.110 ms  
Loss rate: 1.22%  
-- Flow 2:  
Average throughput: 2.00 Mbit/s  
95th percentile per-packet one-way delay: 43.214 ms  
Loss rate: 1.85%  
-- Flow 3:  
Average throughput: 2.06 Mbit/s  
95th percentile per-packet one-way delay: 46.669 ms  
Loss rate: 3.99%

# Run 6: Report of Sprout — Data Link



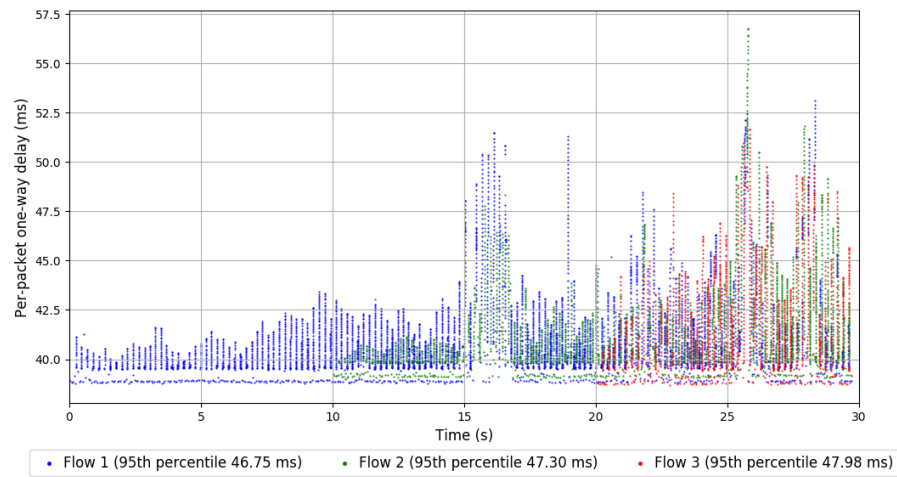
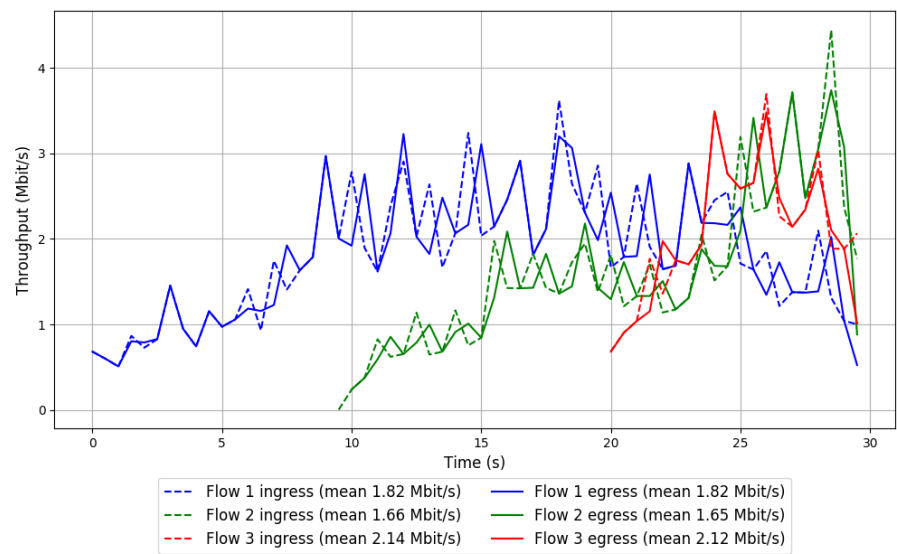


Run 7: Statistics of Sprout

Start at: 2018-04-24 19:33:37  
End at: 2018-04-24 19:34:07  
Local clock offset: -1.912 ms  
Remote clock offset: -0.998 ms

# Below is generated by plot.py at 2018-04-25 00:46:58  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 3.60 Mbit/s  
95th percentile per-packet one-way delay: 47.302 ms  
Loss rate: 1.12%  
-- Flow 1:  
Average throughput: 1.82 Mbit/s  
95th percentile per-packet one-way delay: 46.750 ms  
Loss rate: 0.44%  
-- Flow 2:  
Average throughput: 1.65 Mbit/s  
95th percentile per-packet one-way delay: 47.299 ms  
Loss rate: 1.35%  
-- Flow 3:  
Average throughput: 2.12 Mbit/s  
95th percentile per-packet one-way delay: 47.978 ms  
Loss rate: 2.51%

Run 7: Report of Sprout — Data Link

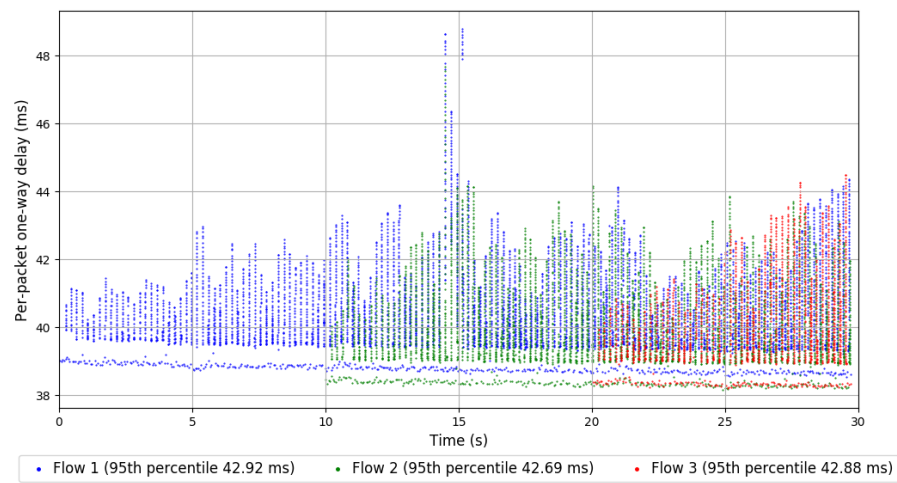
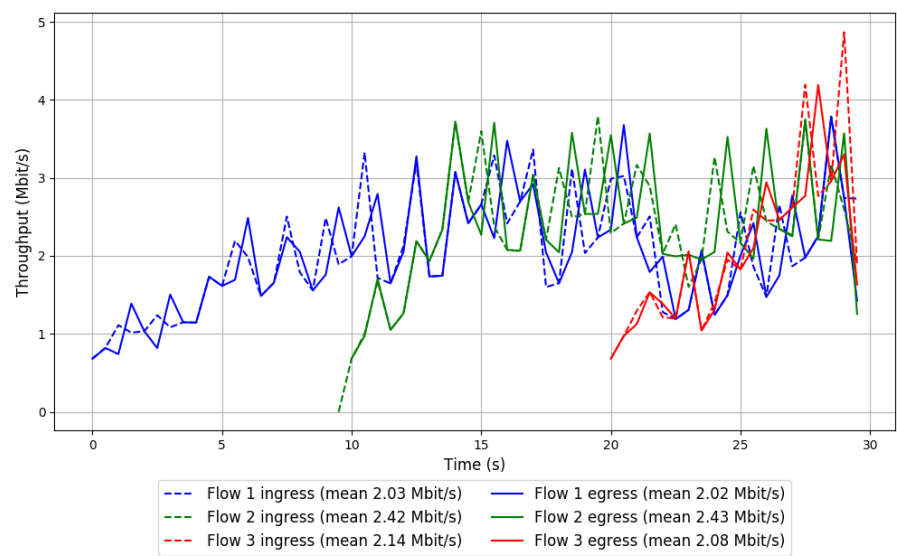


Run 8: Statistics of Sprout

Start at: 2018-04-24 19:56:28  
End at: 2018-04-24 19:56:58  
Local clock offset: -0.003 ms  
Remote clock offset: -0.824 ms

```
# Below is generated by plot.py at 2018-04-25 00:46:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.31 Mbit/s
95th percentile per-packet one-way delay: 42.822 ms
Loss rate: 1.46%
-- Flow 1:
Average throughput: 2.02 Mbit/s
95th percentile per-packet one-way delay: 42.920 ms
Loss rate: 1.08%
-- Flow 2:
Average throughput: 2.43 Mbit/s
95th percentile per-packet one-way delay: 42.687 ms
Loss rate: 0.68%
-- Flow 3:
Average throughput: 2.08 Mbit/s
95th percentile per-packet one-way delay: 42.879 ms
Loss rate: 4.37%
```

Run 8: Report of Sprout — Data Link

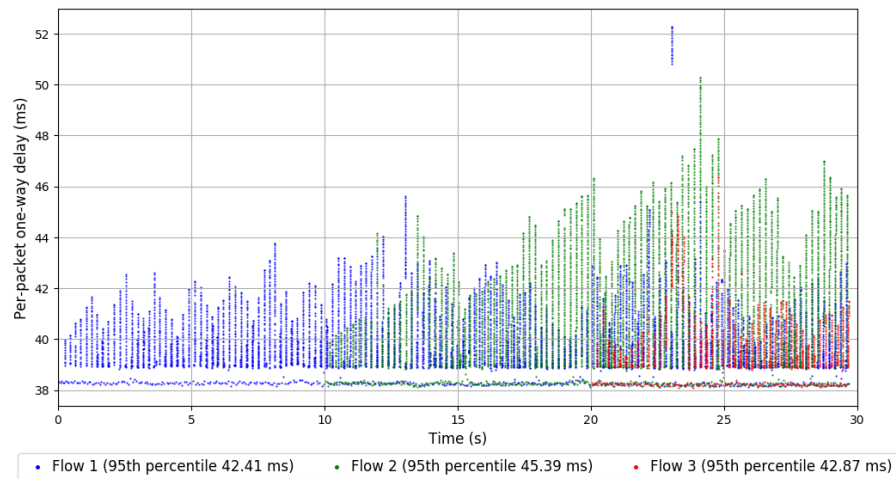
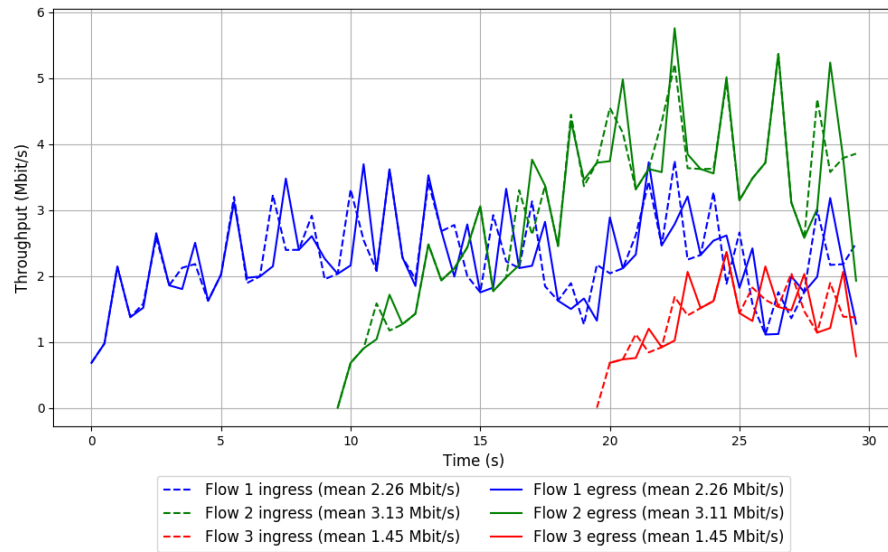


Run 9: Statistics of Sprout

Start at: 2018-04-24 20:19:37  
End at: 2018-04-24 20:20:07  
Local clock offset: 5.333 ms  
Remote clock offset: -0.672 ms

# Below is generated by plot.py at 2018-04-25 00:46:58  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 4.80 Mbit/s  
95th percentile per-packet one-way delay: 44.567 ms  
Loss rate: 1.30%  
-- Flow 1:  
Average throughput: 2.26 Mbit/s  
95th percentile per-packet one-way delay: 42.413 ms  
Loss rate: 0.91%  
-- Flow 2:  
Average throughput: 3.11 Mbit/s  
95th percentile per-packet one-way delay: 45.388 ms  
Loss rate: 1.55%  
-- Flow 3:  
Average throughput: 1.45 Mbit/s  
95th percentile per-packet one-way delay: 42.872 ms  
Loss rate: 2.06%

## Run 9: Report of Sprout — Data Link

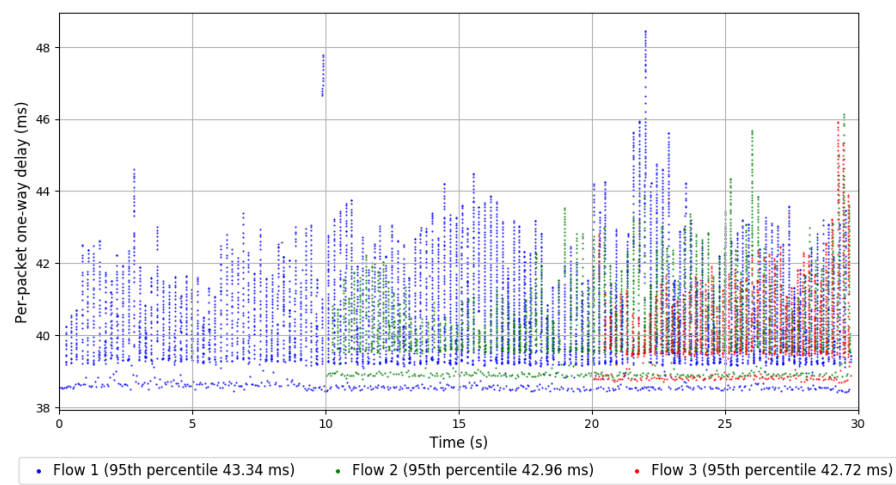
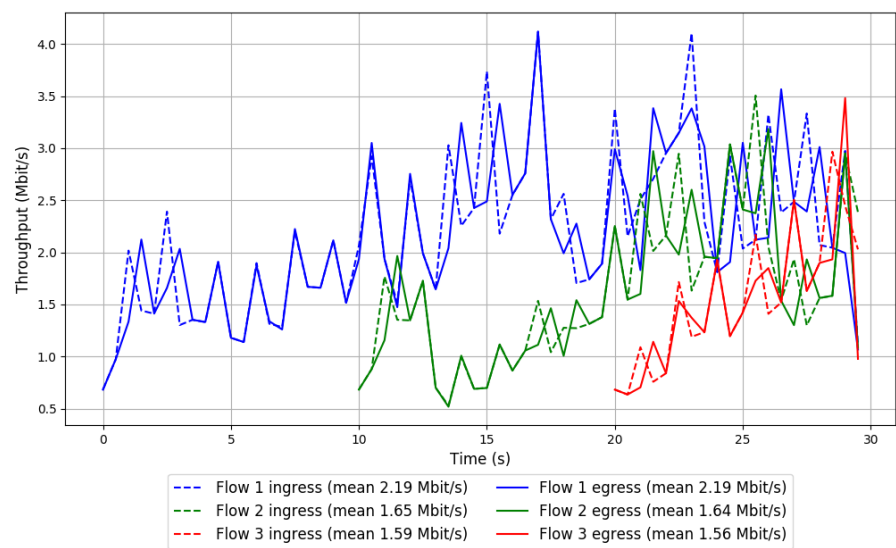


Run 10: Statistics of Sprout

Start at: 2018-04-24 20:42:28  
End at: 2018-04-24 20:42:58  
Local clock offset: 4.081 ms  
Remote clock offset: -0.548 ms

# Below is generated by plot.py at 2018-04-25 00:46:58  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 3.78 Mbit/s  
95th percentile per-packet one-way delay: 43.164 ms  
Loss rate: 1.48%  
-- Flow 1:  
Average throughput: 2.19 Mbit/s  
95th percentile per-packet one-way delay: 43.338 ms  
Loss rate: 0.78%  
-- Flow 2:  
Average throughput: 1.64 Mbit/s  
95th percentile per-packet one-way delay: 42.960 ms  
Loss rate: 1.98%  
-- Flow 3:  
Average throughput: 1.56 Mbit/s  
95th percentile per-packet one-way delay: 42.721 ms  
Loss rate: 3.37%

Run 10: Report of Sprout — Data Link



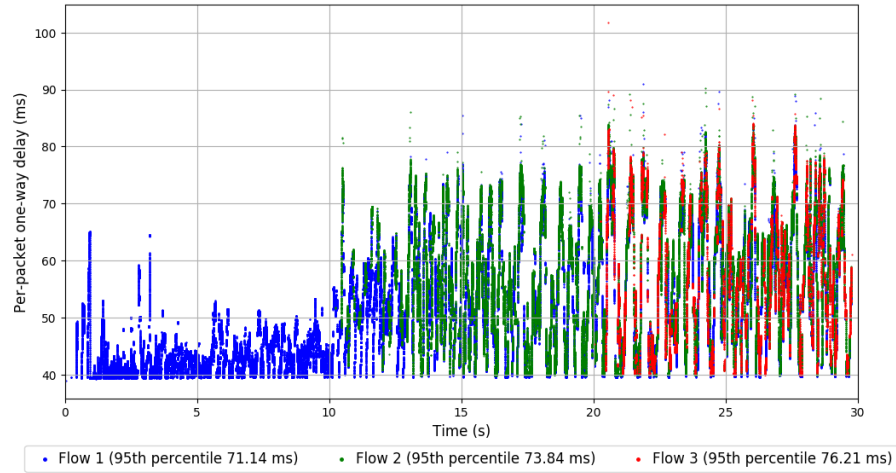
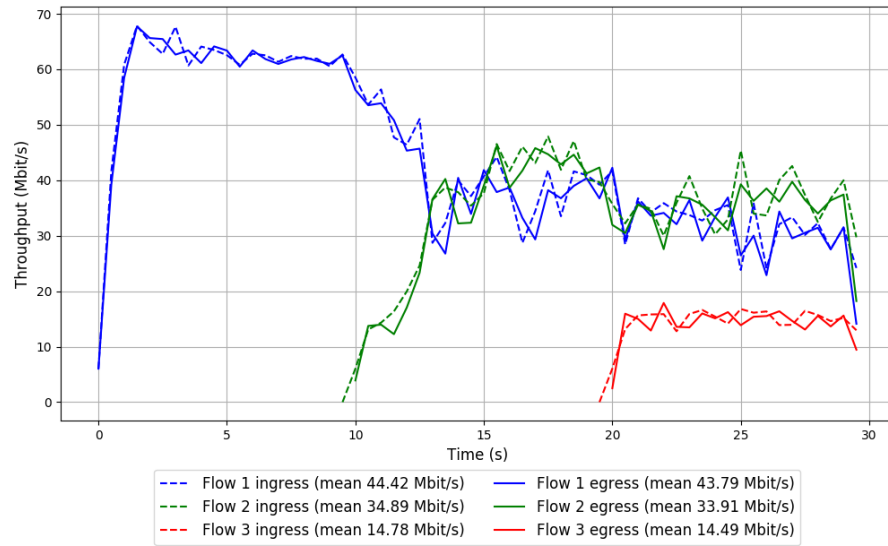


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-04-24 17:00:04
End at: 2018-04-24 17:00:34
Local clock offset: -5.822 ms
Remote clock offset: -10.399 ms

# Below is generated by plot.py at 2018-04-25 00:48:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 71.04 Mbit/s
95th percentile per-packet one-way delay: 72.768 ms
Loss rate: 2.67%
-- Flow 1:
Average throughput: 43.79 Mbit/s
95th percentile per-packet one-way delay: 71.140 ms
Loss rate: 2.02%
-- Flow 2:
Average throughput: 33.91 Mbit/s
95th percentile per-packet one-way delay: 73.845 ms
Loss rate: 3.64%
-- Flow 3:
Average throughput: 14.49 Mbit/s
95th percentile per-packet one-way delay: 76.206 ms
Loss rate: 3.95%
```

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

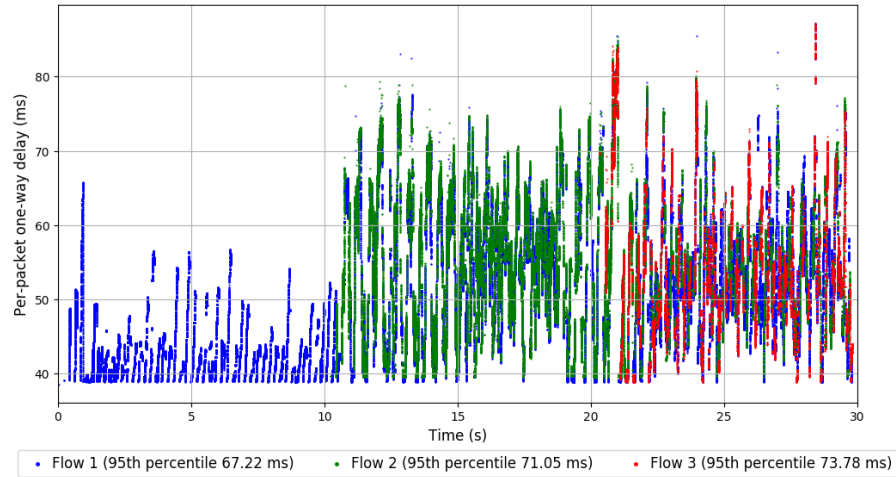
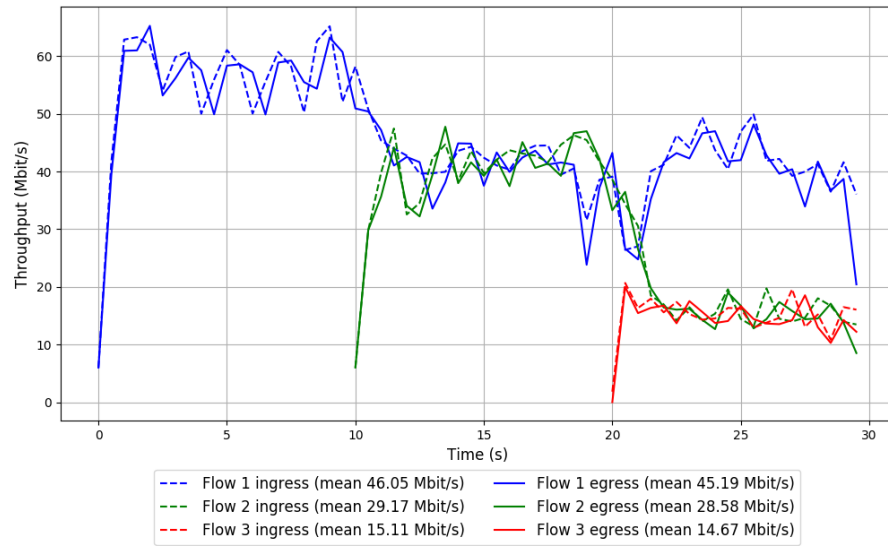


Run 2: Statistics of TaoVA-100x

Start at: 2018-04-24 17:22:56  
End at: 2018-04-24 17:23:26  
Local clock offset: -0.907 ms  
Remote clock offset: -6.323 ms

# Below is generated by plot.py at 2018-04-25 00:48:39  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 68.85 Mbit/s  
95th percentile per-packet one-way delay: 69.084 ms  
Loss rate: 2.85%  
-- Flow 1:  
Average throughput: 45.19 Mbit/s  
95th percentile per-packet one-way delay: 67.215 ms  
Loss rate: 2.53%  
-- Flow 2:  
Average throughput: 28.58 Mbit/s  
95th percentile per-packet one-way delay: 71.048 ms  
Loss rate: 3.07%  
-- Flow 3:  
Average throughput: 14.67 Mbit/s  
95th percentile per-packet one-way delay: 73.785 ms  
Loss rate: 5.00%

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

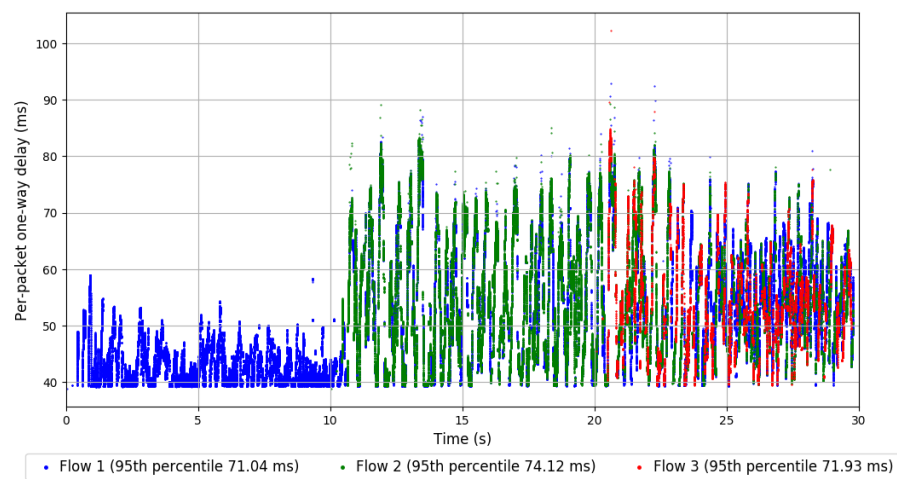
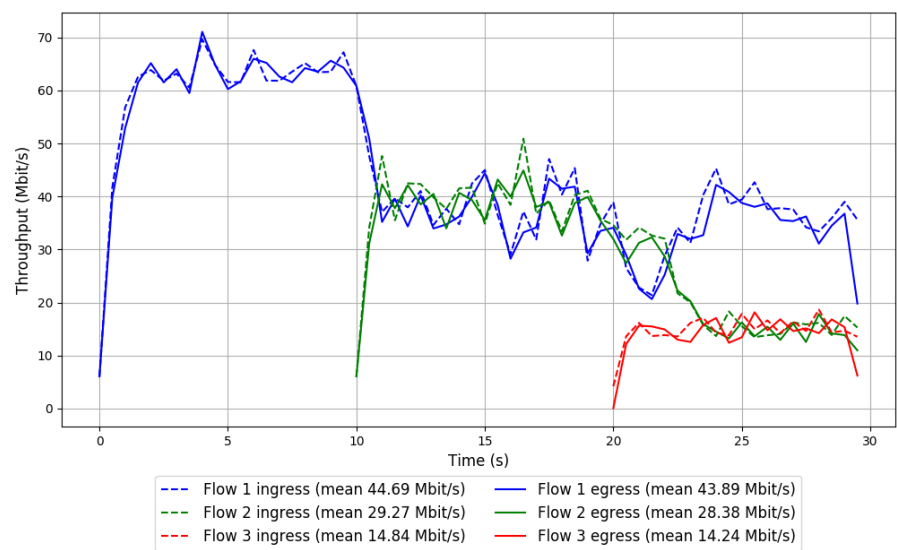


Run 3: Statistics of TaoVA-100x

Start at: 2018-04-24 17:46:00  
End at: 2018-04-24 17:46:30  
Local clock offset: -3.942 ms  
Remote clock offset: -2.227 ms

# Below is generated by plot.py at 2018-04-25 00:48:39  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 67.34 Mbit/s  
95th percentile per-packet one-way delay: 72.430 ms  
Loss rate: 3.18%  
-- Flow 1:  
Average throughput: 43.89 Mbit/s  
95th percentile per-packet one-way delay: 71.042 ms  
Loss rate: 2.47%  
-- Flow 2:  
Average throughput: 28.38 Mbit/s  
95th percentile per-packet one-way delay: 74.119 ms  
Loss rate: 4.06%  
-- Flow 3:  
Average throughput: 14.24 Mbit/s  
95th percentile per-packet one-way delay: 71.930 ms  
Loss rate: 6.12%

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

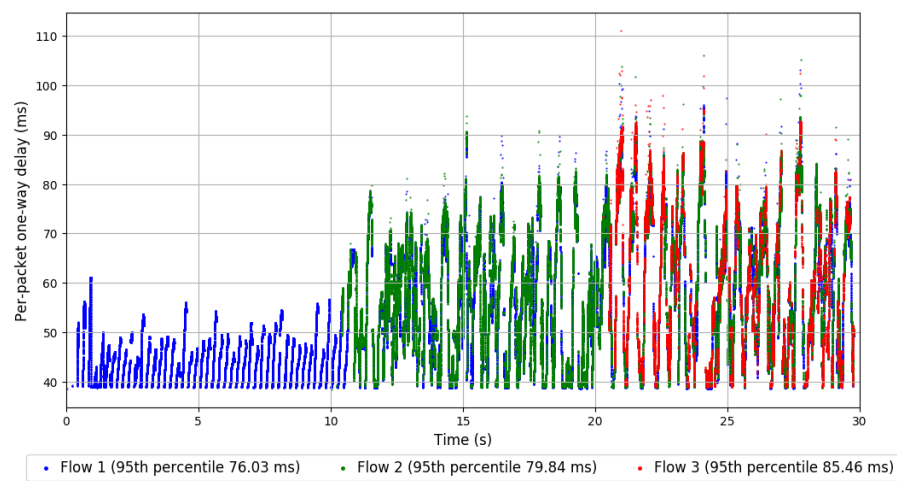
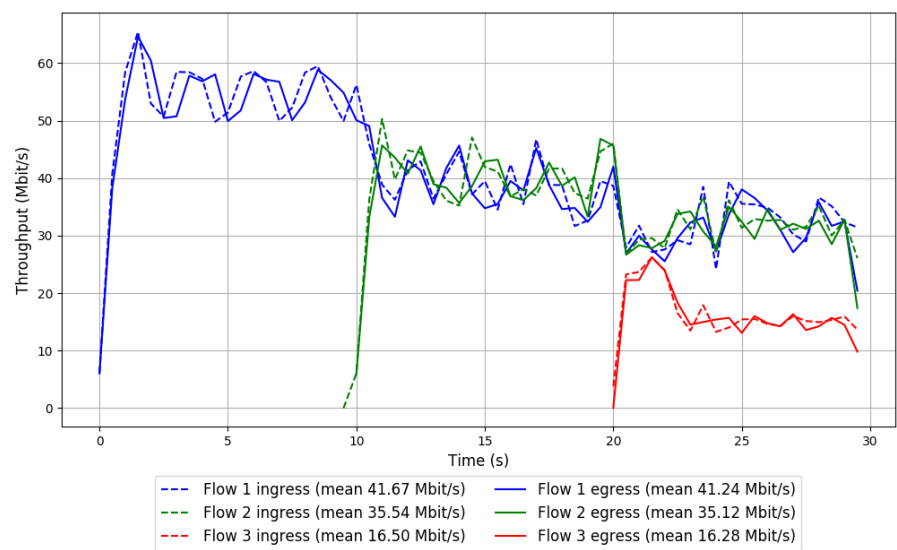


Run 4: Statistics of TaoVA-100x

Start at: 2018-04-24 18:08:54  
End at: 2018-04-24 18:09:24  
Local clock offset: -6.482 ms  
Remote clock offset: -1.602 ms

# Below is generated by plot.py at 2018-04-25 00:48:39  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 69.87 Mbit/s  
95th percentile per-packet one-way delay: 78.755 ms  
Loss rate: 1.97%  
-- Flow 1:  
Average throughput: 41.24 Mbit/s  
95th percentile per-packet one-way delay: 76.025 ms  
Loss rate: 1.67%  
-- Flow 2:  
Average throughput: 35.12 Mbit/s  
95th percentile per-packet one-way delay: 79.840 ms  
Loss rate: 2.17%  
-- Flow 3:  
Average throughput: 16.28 Mbit/s  
95th percentile per-packet one-way delay: 85.462 ms  
Loss rate: 3.40%

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



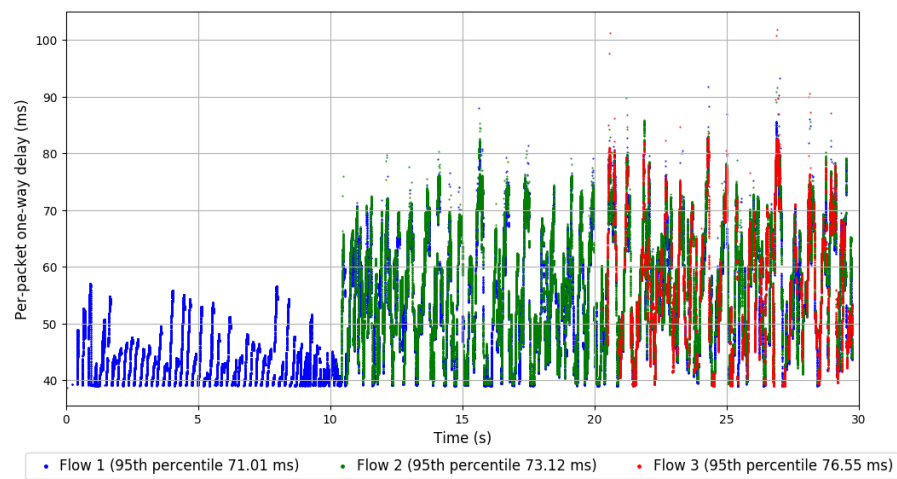
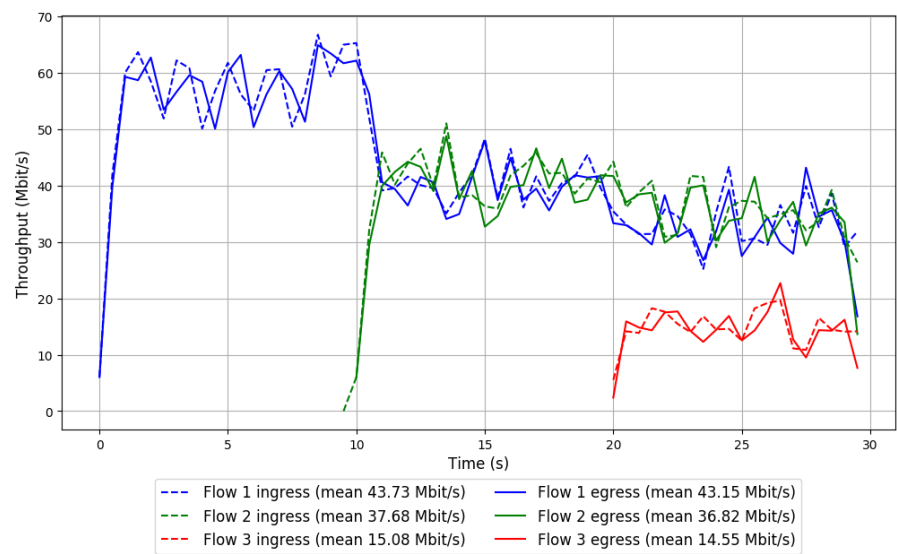


Run 5: Statistics of TaoVA-100x

Start at: 2018-04-24 18:31:48  
End at: 2018-04-24 18:32:18  
Local clock offset: -0.648 ms  
Remote clock offset: -1.416 ms

# Below is generated by plot.py at 2018-04-25 00:48:47  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 72.33 Mbit/s  
95th percentile per-packet one-way delay: 72.443 ms  
Loss rate: 2.56%  
-- Flow 1:  
Average throughput: 43.15 Mbit/s  
95th percentile per-packet one-way delay: 71.011 ms  
Loss rate: 1.96%  
-- Flow 2:  
Average throughput: 36.82 Mbit/s  
95th percentile per-packet one-way delay: 73.123 ms  
Loss rate: 3.23%  
-- Flow 3:  
Average throughput: 14.55 Mbit/s  
95th percentile per-packet one-way delay: 76.552 ms  
Loss rate: 4.50%

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

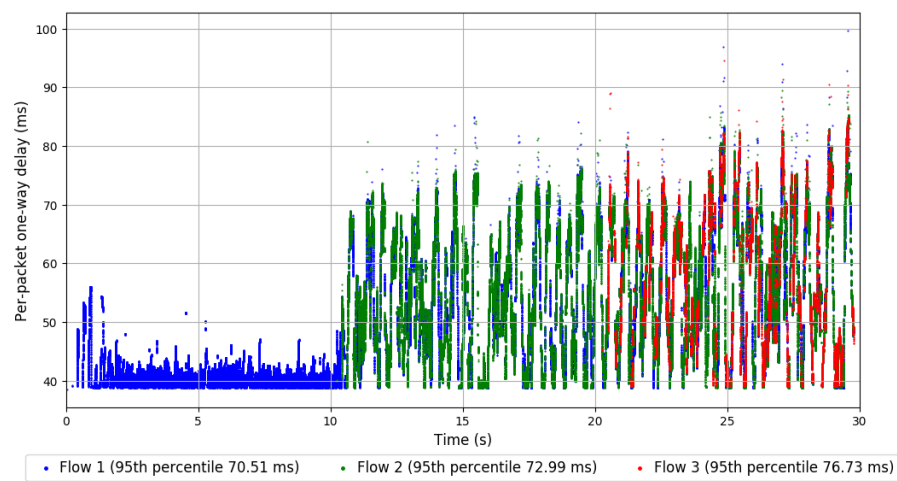
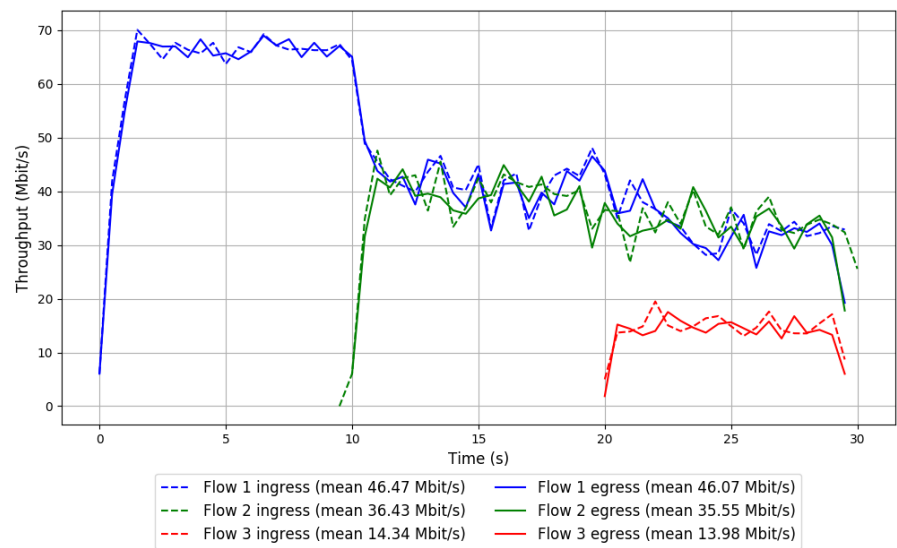


Run 6: Statistics of TaoVA-100x

Start at: 2018-04-24 18:54:40  
End at: 2018-04-24 18:55:10  
Local clock offset: 1.816 ms  
Remote clock offset: -1.524 ms

# Below is generated by plot.py at 2018-04-25 00:48:55  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 74.23 Mbit/s  
95th percentile per-packet one-way delay: 72.132 ms  
Loss rate: 2.95%  
-- Flow 1:  
Average throughput: 46.07 Mbit/s  
95th percentile per-packet one-way delay: 70.512 ms  
Loss rate: 1.64%  
-- Flow 2:  
Average throughput: 35.55 Mbit/s  
95th percentile per-packet one-way delay: 72.991 ms  
Loss rate: 4.98%  
-- Flow 3:  
Average throughput: 13.98 Mbit/s  
95th percentile per-packet one-way delay: 76.727 ms  
Loss rate: 5.24%

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

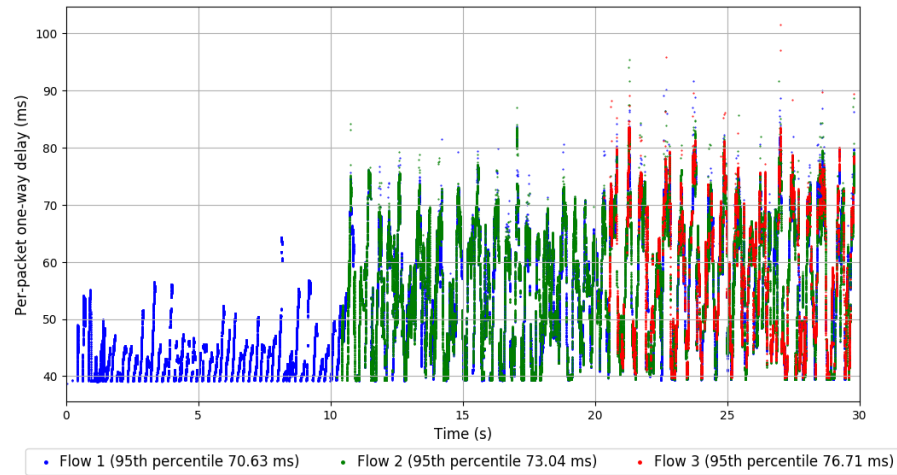
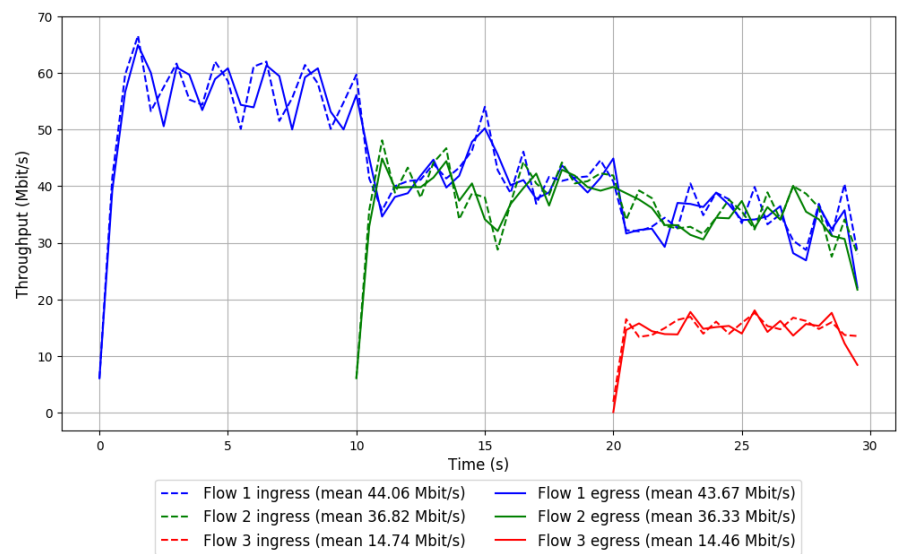


Run 7: Statistics of TaoVA-100x

Start at: 2018-04-24 19:17:34  
End at: 2018-04-24 19:18:04  
Local clock offset: 3.311 ms  
Remote clock offset: -1.199 ms

# Below is generated by plot.py at 2018-04-25 00:48:58  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 72.49 Mbit/s  
95th percentile per-packet one-way delay: 72.285 ms  
Loss rate: 1.93%  
-- Flow 1:  
Average throughput: 43.67 Mbit/s  
95th percentile per-packet one-way delay: 70.629 ms  
Loss rate: 1.52%  
-- Flow 2:  
Average throughput: 36.33 Mbit/s  
95th percentile per-packet one-way delay: 73.040 ms  
Loss rate: 2.30%  
-- Flow 3:  
Average throughput: 14.46 Mbit/s  
95th percentile per-packet one-way delay: 76.712 ms  
Loss rate: 3.85%

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

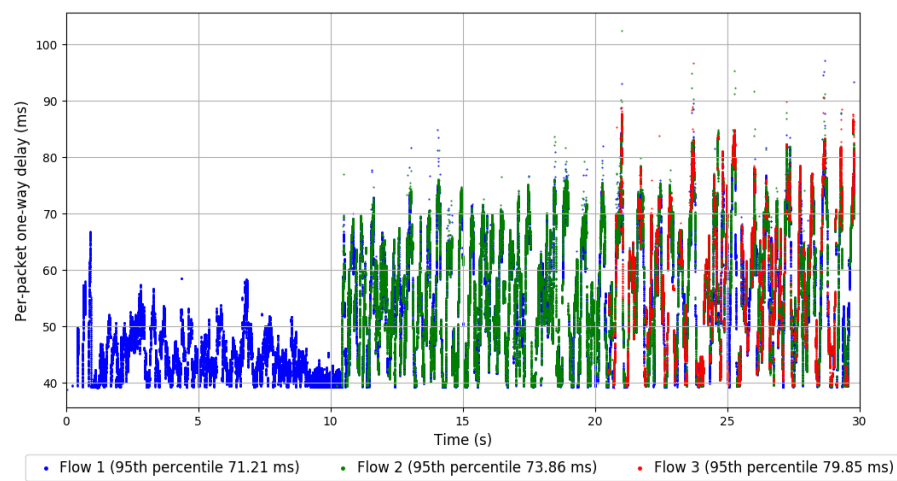
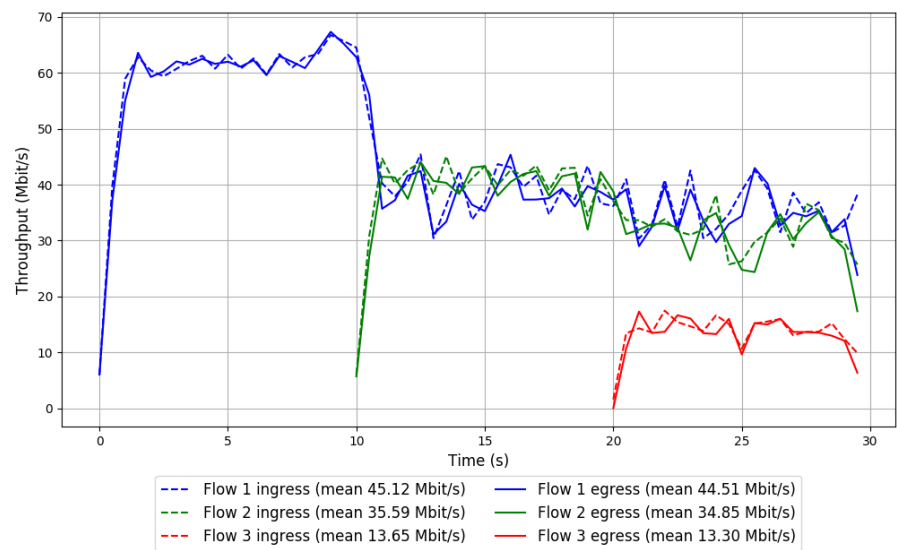


Run 8: Statistics of TaoVA-100x

Start at: 2018-04-24 19:40:23  
End at: 2018-04-24 19:40:53  
Local clock offset: -2.531 ms  
Remote clock offset: -0.893 ms

# Below is generated by plot.py at 2018-04-25 00:49:00  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 71.99 Mbit/s  
95th percentile per-packet one-way delay: 73.055 ms  
Loss rate: 2.46%  
-- Flow 1:  
Average throughput: 44.51 Mbit/s  
95th percentile per-packet one-way delay: 71.211 ms  
Loss rate: 1.94%  
-- Flow 2:  
Average throughput: 34.85 Mbit/s  
95th percentile per-packet one-way delay: 73.855 ms  
Loss rate: 3.06%  
-- Flow 3:  
Average throughput: 13.30 Mbit/s  
95th percentile per-packet one-way delay: 79.853 ms  
Loss rate: 4.57%

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



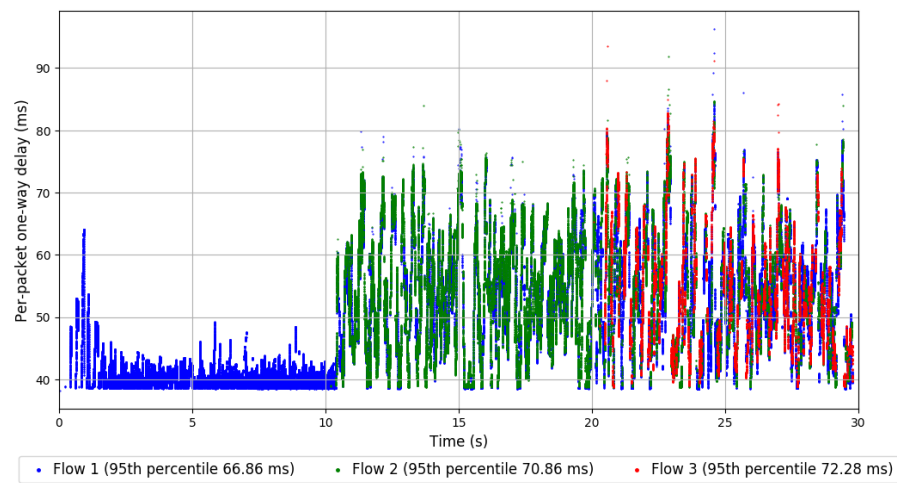
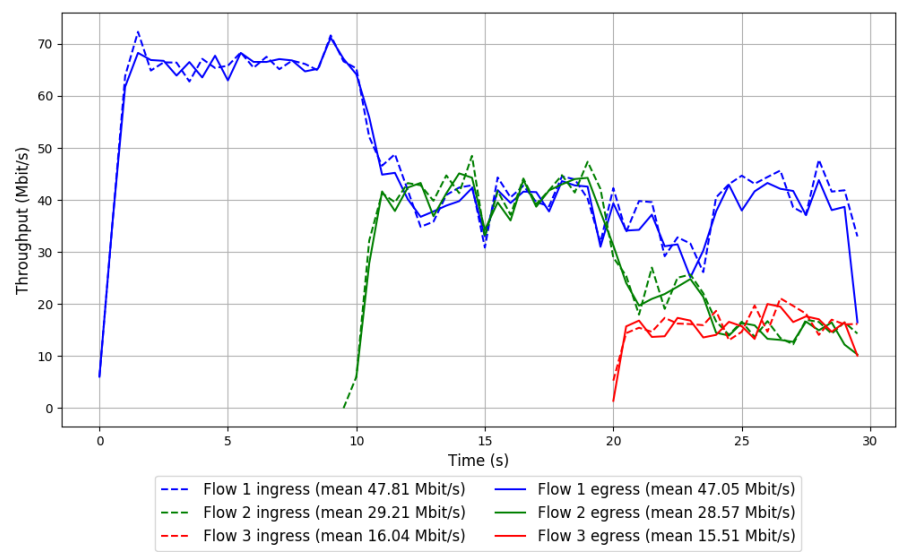


Run 9: Statistics of TaoVA-100x

Start at: 2018-04-24 20:03:15  
End at: 2018-04-24 20:03:45  
Local clock offset: 2.328 ms  
Remote clock offset: -0.693 ms

# Below is generated by plot.py at 2018-04-25 00:50:35  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 71.07 Mbit/s  
95th percentile per-packet one-way delay: 68.719 ms  
Loss rate: 2.79%  
-- Flow 1:  
Average throughput: 47.05 Mbit/s  
95th percentile per-packet one-way delay: 66.861 ms  
Loss rate: 2.29%  
-- Flow 2:  
Average throughput: 28.57 Mbit/s  
95th percentile per-packet one-way delay: 70.855 ms  
Loss rate: 3.24%  
-- Flow 3:  
Average throughput: 15.51 Mbit/s  
95th percentile per-packet one-way delay: 72.280 ms  
Loss rate: 5.56%

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

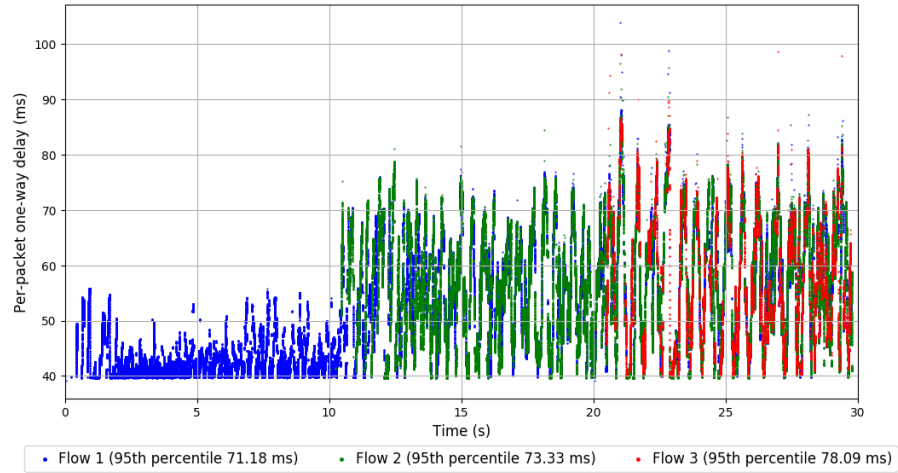
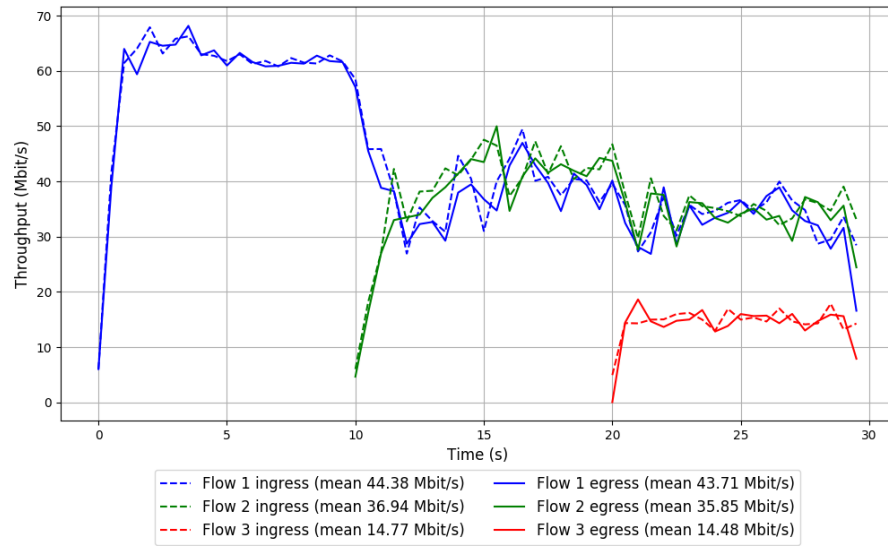


Run 10: Statistics of TaoVA-100x

Start at: 2018-04-24 20:26:23  
End at: 2018-04-24 20:26:53  
Local clock offset: 5.967 ms  
Remote clock offset: -0.664 ms

# Below is generated by plot.py at 2018-04-25 00:50:39  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 72.20 Mbit/s  
95th percentile per-packet one-way delay: 72.478 ms  
Loss rate: 2.90%  
-- Flow 1:  
Average throughput: 43.71 Mbit/s  
95th percentile per-packet one-way delay: 71.183 ms  
Loss rate: 2.20%  
-- Flow 2:  
Average throughput: 35.85 Mbit/s  
95th percentile per-packet one-way delay: 73.327 ms  
Loss rate: 3.95%  
-- Flow 3:  
Average throughput: 14.48 Mbit/s  
95th percentile per-packet one-way delay: 78.089 ms  
Loss rate: 4.01%

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

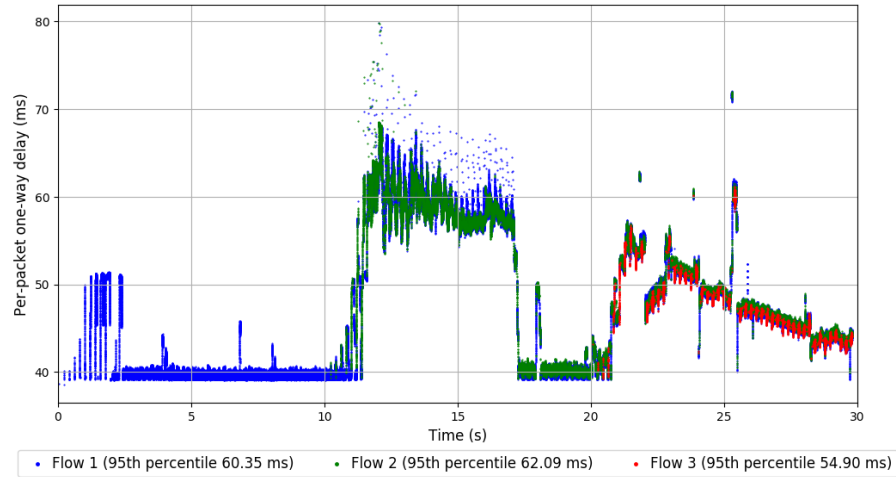
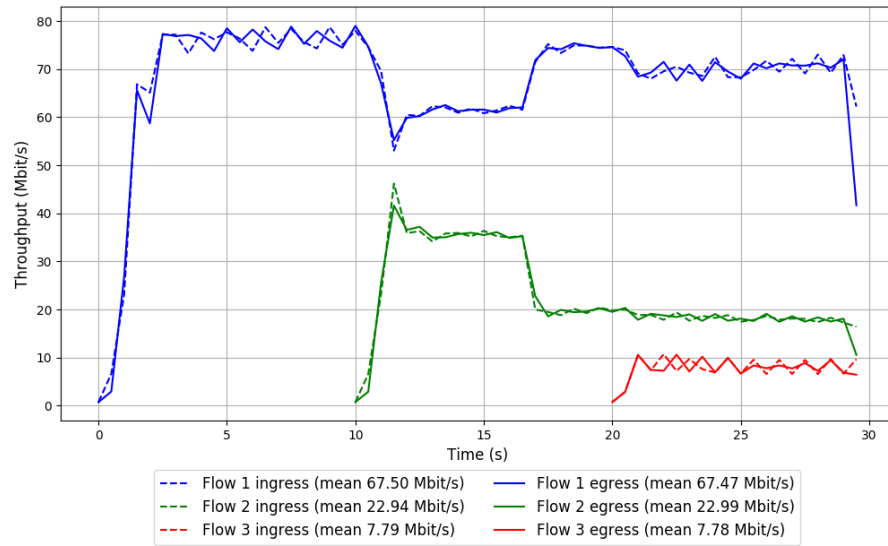


Run 1: Statistics of TCP Vegas

Start at: 2018-04-24 17:10:46  
End at: 2018-04-24 17:11:16  
Local clock offset: -2.066 ms  
Remote clock offset: -6.074 ms

# Below is generated by plot.py at 2018-04-25 00:50:39  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 85.27 Mbit/s  
95th percentile per-packet one-way delay: 60.815 ms  
Loss rate: 0.74%  
-- Flow 1:  
Average throughput: 67.47 Mbit/s  
95th percentile per-packet one-way delay: 60.353 ms  
Loss rate: 0.69%  
-- Flow 2:  
Average throughput: 22.99 Mbit/s  
95th percentile per-packet one-way delay: 62.087 ms  
Loss rate: 0.76%  
-- Flow 3:  
Average throughput: 7.78 Mbit/s  
95th percentile per-packet one-way delay: 54.898 ms  
Loss rate: 2.11%

# Run 1: Report of TCP Vegas — Data Link

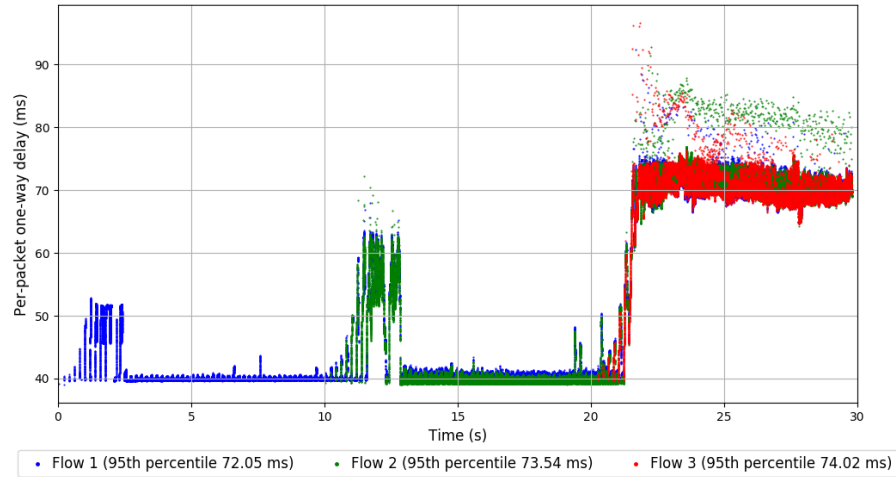
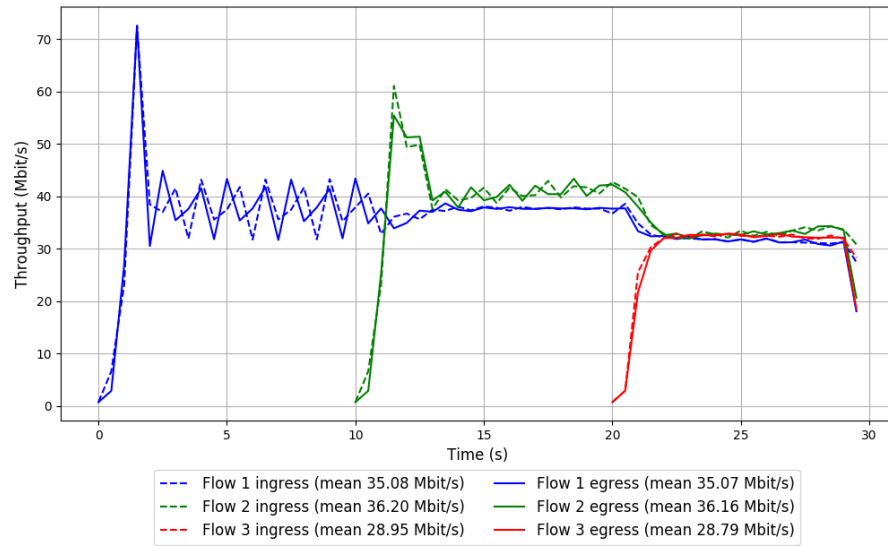


Run 2: Statistics of TCP Vegas

Start at: 2018-04-24 17:33:38  
End at: 2018-04-24 17:34:08  
Local clock offset: -0.89 ms  
Remote clock offset: -4.441 ms

# Below is generated by plot.py at 2018-04-25 00:50:39  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 68.47 Mbit/s  
95th percentile per-packet one-way delay: 73.164 ms  
Loss rate: 1.05%  
-- Flow 1:  
Average throughput: 35.07 Mbit/s  
95th percentile per-packet one-way delay: 72.050 ms  
Loss rate: 0.65%  
-- Flow 2:  
Average throughput: 36.16 Mbit/s  
95th percentile per-packet one-way delay: 73.537 ms  
Loss rate: 1.06%  
-- Flow 3:  
Average throughput: 28.79 Mbit/s  
95th percentile per-packet one-way delay: 74.019 ms  
Loss rate: 2.46%

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



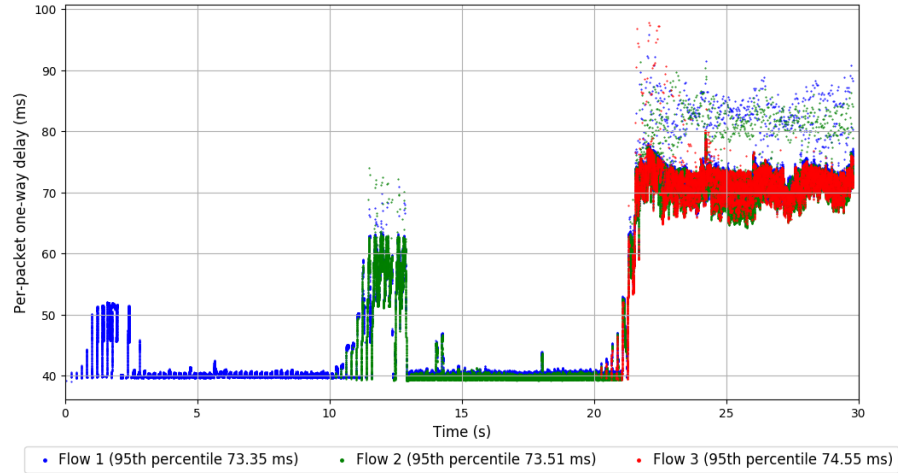
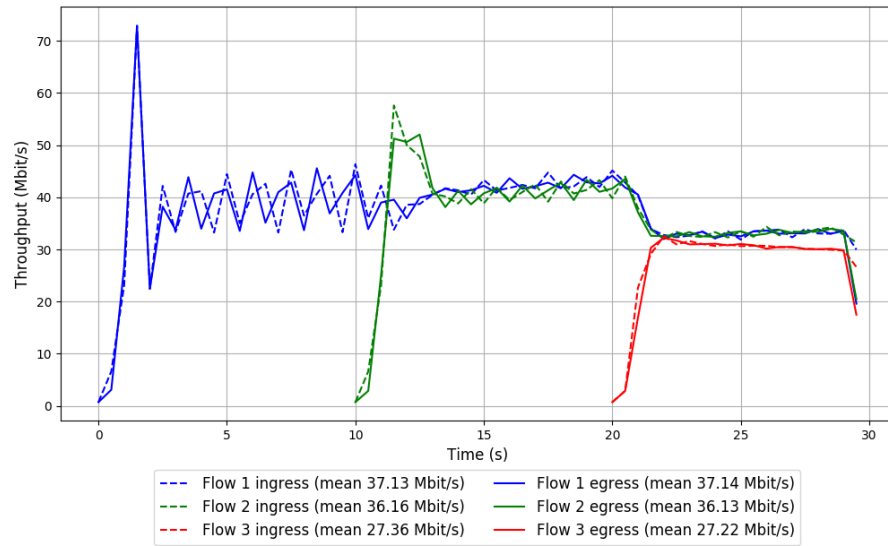


Run 3: Statistics of TCP Vegas

Start at: 2018-04-24 17:56:44  
End at: 2018-04-24 17:57:14  
Local clock offset: -5.355 ms  
Remote clock offset: -2.006 ms

# Below is generated by plot.py at 2018-04-25 00:50:39  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 70.00 Mbit/s  
95th percentile per-packet one-way delay: 73.671 ms  
Loss rate: 1.04%  
-- Flow 1:  
Average throughput: 37.14 Mbit/s  
95th percentile per-packet one-way delay: 73.354 ms  
Loss rate: 0.68%  
-- Flow 2:  
Average throughput: 36.13 Mbit/s  
95th percentile per-packet one-way delay: 73.512 ms  
Loss rate: 1.07%  
-- Flow 3:  
Average throughput: 27.22 Mbit/s  
95th percentile per-packet one-way delay: 74.546 ms  
Loss rate: 2.47%

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

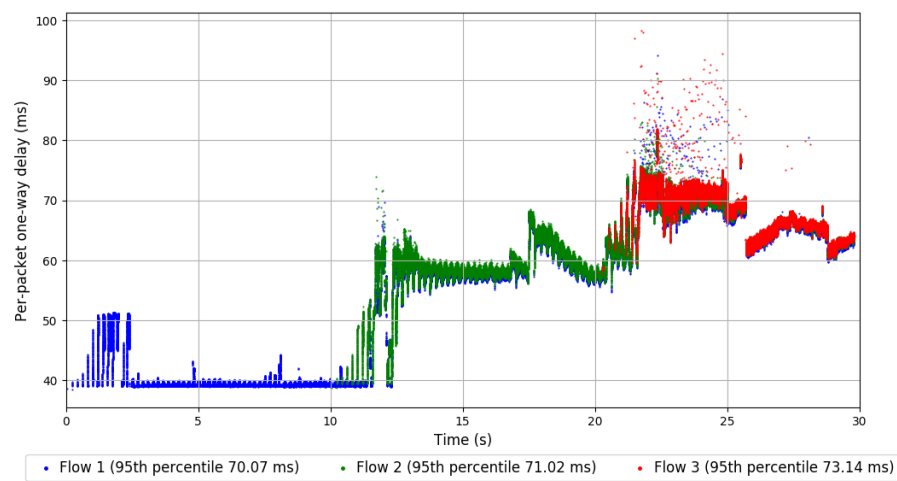
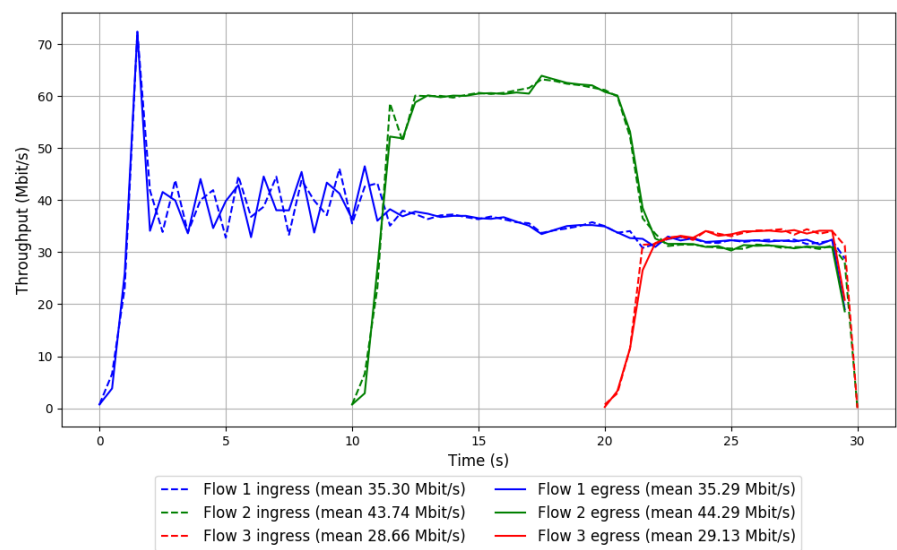


Run 4: Statistics of TCP Vegas

Start at: 2018-04-24 18:19:37  
End at: 2018-04-24 18:20:07  
Local clock offset: -2.11 ms  
Remote clock offset: -1.322 ms

# Below is generated by plot.py at 2018-04-25 00:50:39  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 74.18 Mbit/s  
95th percentile per-packet one-way delay: 71.615 ms  
Loss rate: 0.94%  
-- Flow 1:  
Average throughput: 35.29 Mbit/s  
95th percentile per-packet one-way delay: 70.067 ms  
Loss rate: 0.65%  
-- Flow 2:  
Average throughput: 44.29 Mbit/s  
95th percentile per-packet one-way delay: 71.020 ms  
Loss rate: 0.76%  
-- Flow 3:  
Average throughput: 29.13 Mbit/s  
95th percentile per-packet one-way delay: 73.135 ms  
Loss rate: 2.53%

Run 4: Report of TCP Vegas — Data Link

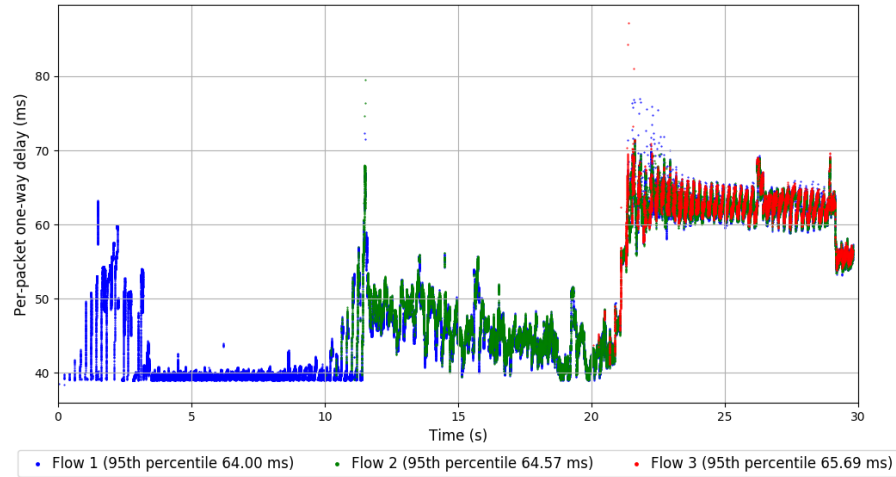
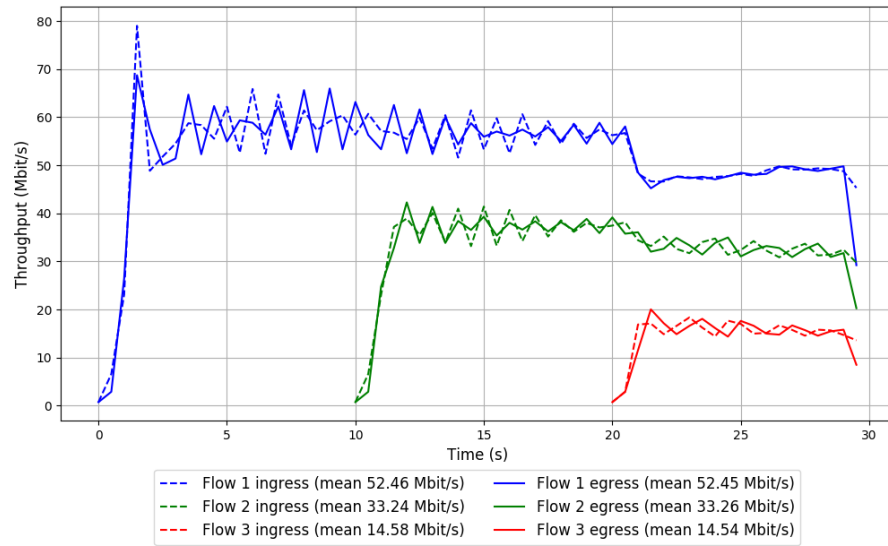


Run 5: Statistics of TCP Vegas

Start at: 2018-04-24 18:42:32  
End at: 2018-04-24 18:43:02  
Local clock offset: -0.383 ms  
Remote clock offset: -1.471 ms

# Below is generated by plot.py at 2018-04-25 00:50:39  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 79.28 Mbit/s  
95th percentile per-packet one-way delay: 64.334 ms  
Loss rate: 0.87%  
-- Flow 1:  
Average throughput: 52.45 Mbit/s  
95th percentile per-packet one-way delay: 63.999 ms  
Loss rate: 0.68%  
-- Flow 2:  
Average throughput: 33.26 Mbit/s  
95th percentile per-packet one-way delay: 64.574 ms  
Loss rate: 1.03%  
-- Flow 3:  
Average throughput: 14.54 Mbit/s  
95th percentile per-packet one-way delay: 65.688 ms  
Loss rate: 2.26%

# Run 5: Report of TCP Vegas — Data Link

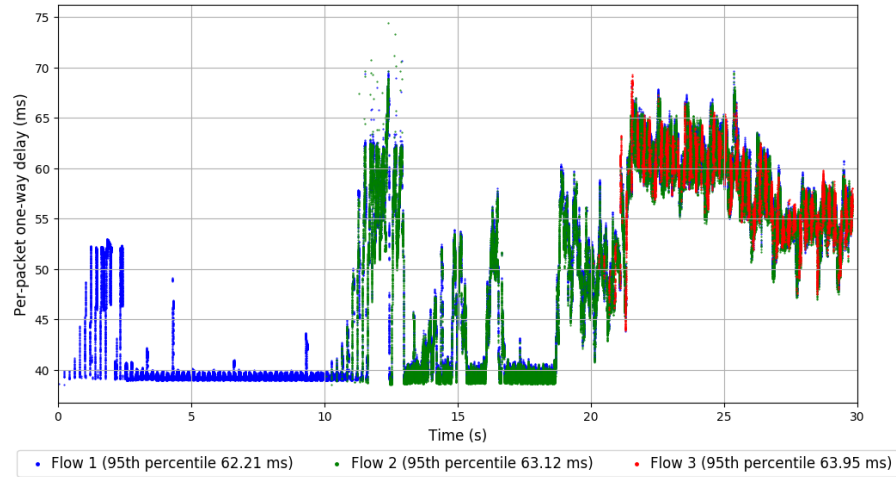
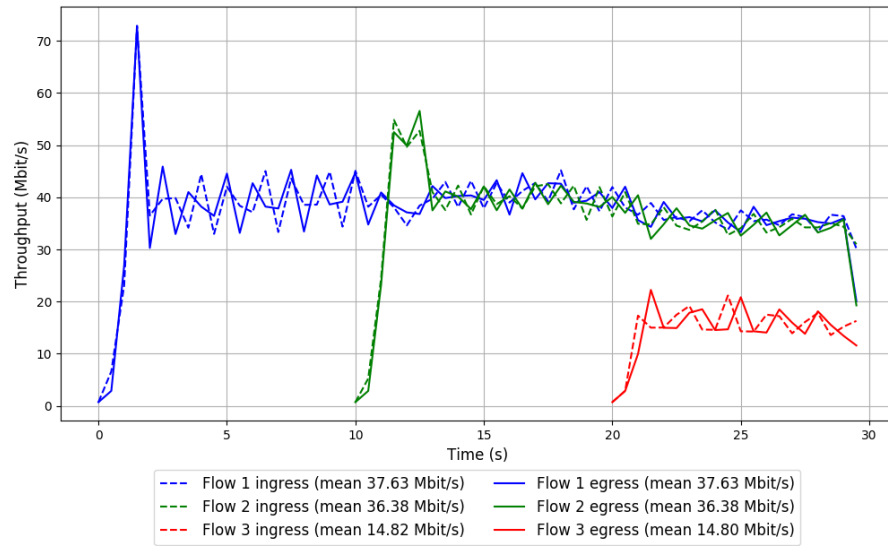


Run 6: Statistics of TCP Vegas

Start at: 2018-04-24 19:05:24  
End at: 2018-04-24 19:05:55  
Local clock offset: 2.588 ms  
Remote clock offset: -1.621 ms

# Below is generated by plot.py at 2018-04-25 00:50:39  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 66.53 Mbit/s  
95th percentile per-packet one-way delay: 62.803 ms  
Loss rate: 0.91%  
-- Flow 1:  
Average throughput: 37.63 Mbit/s  
95th percentile per-packet one-way delay: 62.210 ms  
Loss rate: 0.67%  
-- Flow 2:  
Average throughput: 36.38 Mbit/s  
95th percentile per-packet one-way delay: 63.120 ms  
Loss rate: 1.01%  
-- Flow 3:  
Average throughput: 14.80 Mbit/s  
95th percentile per-packet one-way delay: 63.949 ms  
Loss rate: 2.23%

# Run 6: Report of TCP Vegas — Data Link



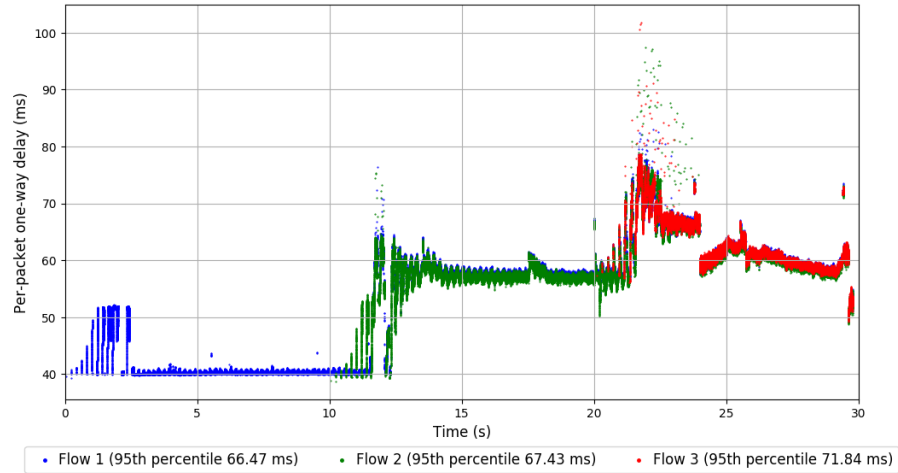
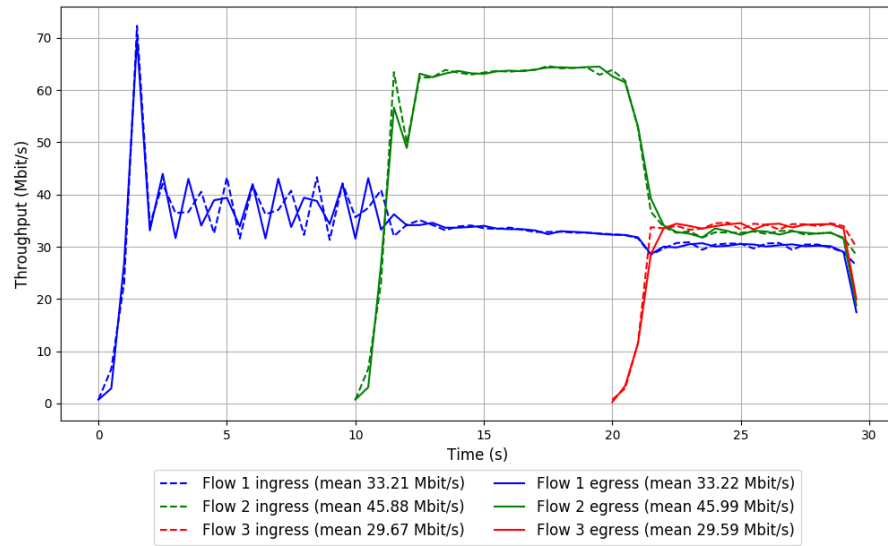


Run 7: Statistics of TCP Vegas

Start at: 2018-04-24 19:28:16  
End at: 2018-04-24 19:28:46  
Local clock offset: -0.882 ms  
Remote clock offset: -1.022 ms

# Below is generated by plot.py at 2018-04-25 00:50:57  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 73.40 Mbit/s  
95th percentile per-packet one-way delay: 67.762 ms  
Loss rate: 0.92%  
-- Flow 1:  
Average throughput: 33.22 Mbit/s  
95th percentile per-packet one-way delay: 66.469 ms  
Loss rate: 0.62%  
-- Flow 2:  
Average throughput: 45.99 Mbit/s  
95th percentile per-packet one-way delay: 67.429 ms  
Loss rate: 0.74%  
-- Flow 3:  
Average throughput: 29.59 Mbit/s  
95th percentile per-packet one-way delay: 71.845 ms  
Loss rate: 2.47%

# Run 7: Report of TCP Vegas — Data Link

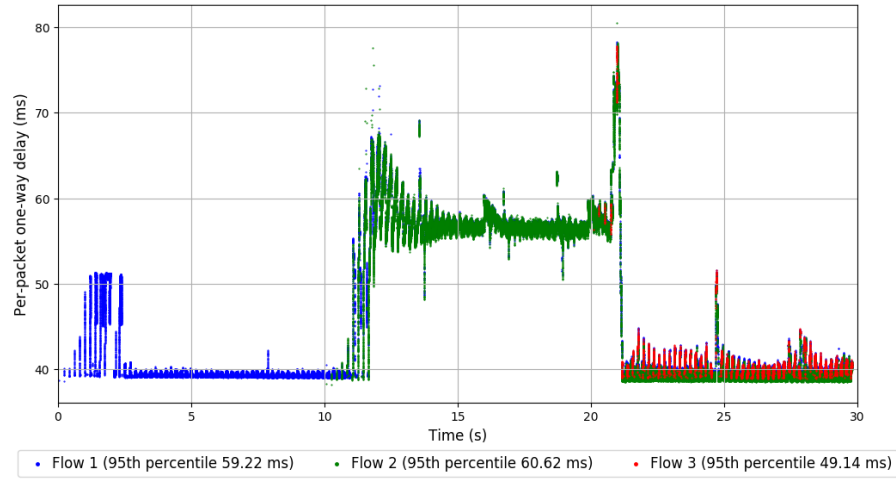
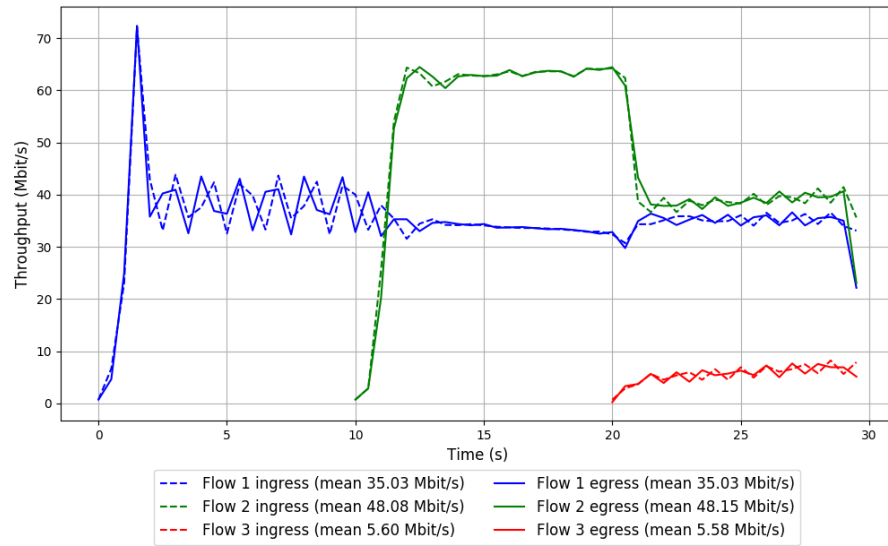


Run 8: Statistics of TCP Vegas

Start at: 2018-04-24 19:51:06  
End at: 2018-04-24 19:51:36  
Local clock offset: -3.116 ms  
Remote clock offset: -0.811 ms

# Below is generated by plot.py at 2018-04-25 00:50:58  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 68.77 Mbit/s  
95th percentile per-packet one-way delay: 59.794 ms  
Loss rate: 0.78%  
-- Flow 1:  
Average throughput: 35.03 Mbit/s  
95th percentile per-packet one-way delay: 59.220 ms  
Loss rate: 0.64%  
-- Flow 2:  
Average throughput: 48.15 Mbit/s  
95th percentile per-packet one-way delay: 60.620 ms  
Loss rate: 0.83%  
-- Flow 3:  
Average throughput: 5.58 Mbit/s  
95th percentile per-packet one-way delay: 49.144 ms  
Loss rate: 2.50%

# Run 8: Report of TCP Vegas — Data Link

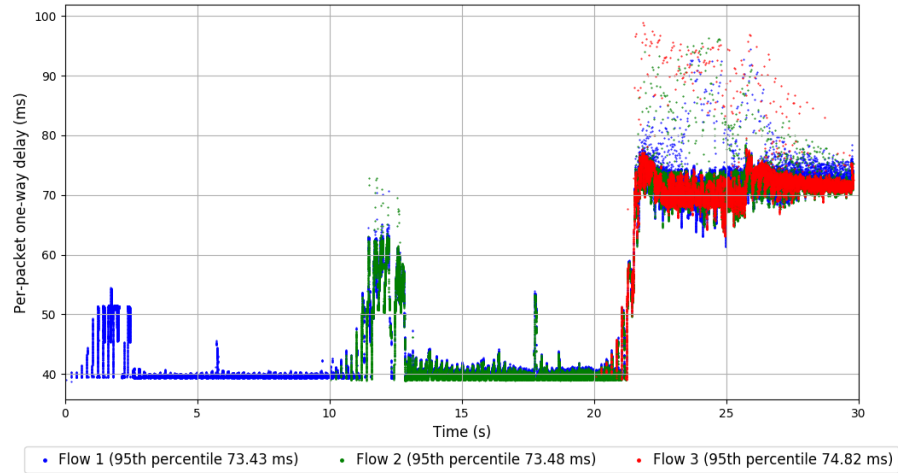
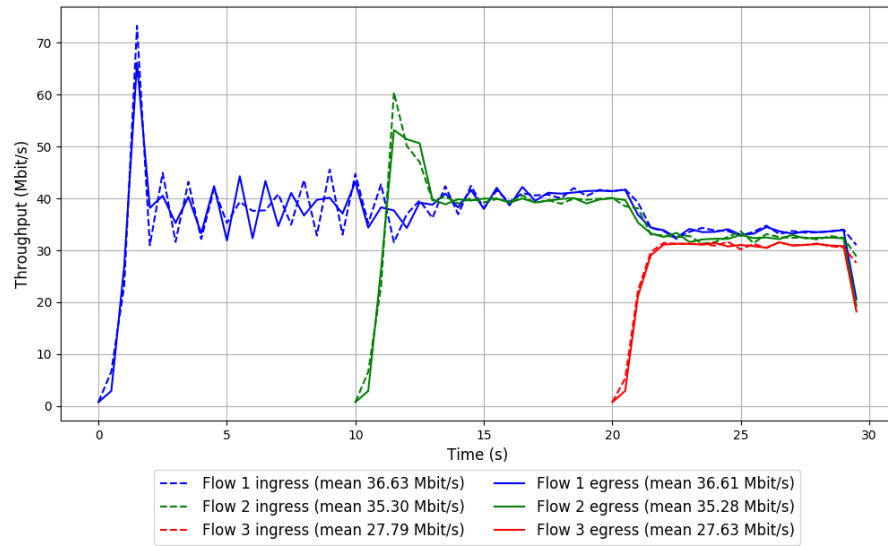


Run 9: Statistics of TCP Vegas

Start at: 2018-04-24 20:14:12  
End at: 2018-04-24 20:14:42  
Local clock offset: 4.548 ms  
Remote clock offset: -0.727 ms

# Below is generated by plot.py at 2018-04-25 00:51:05  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 69.06 Mbit/s  
95th percentile per-packet one-way delay: 73.725 ms  
Loss rate: 1.04%  
-- Flow 1:  
Average throughput: 36.61 Mbit/s  
95th percentile per-packet one-way delay: 73.432 ms  
Loss rate: 0.70%  
-- Flow 2:  
Average throughput: 35.28 Mbit/s  
95th percentile per-packet one-way delay: 73.479 ms  
Loss rate: 1.02%  
-- Flow 3:  
Average throughput: 27.63 Mbit/s  
95th percentile per-packet one-way delay: 74.822 ms  
Loss rate: 2.47%

# Run 9: Report of TCP Vegas — Data Link

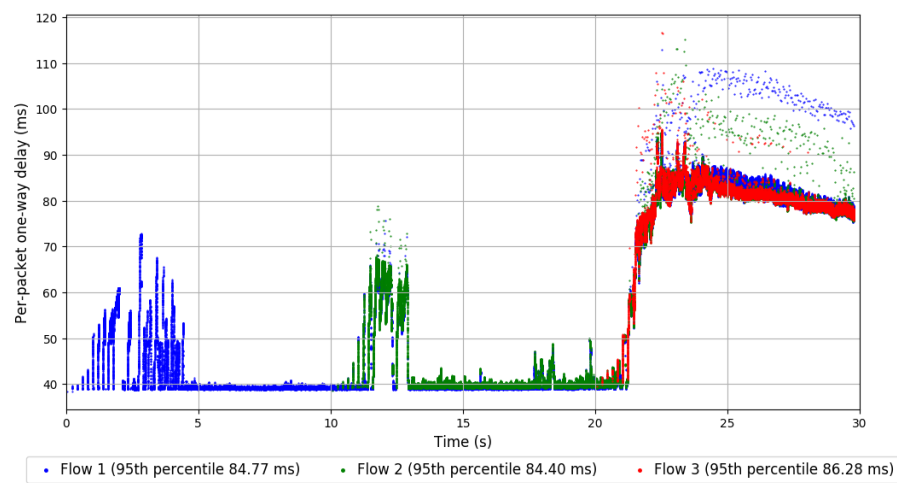
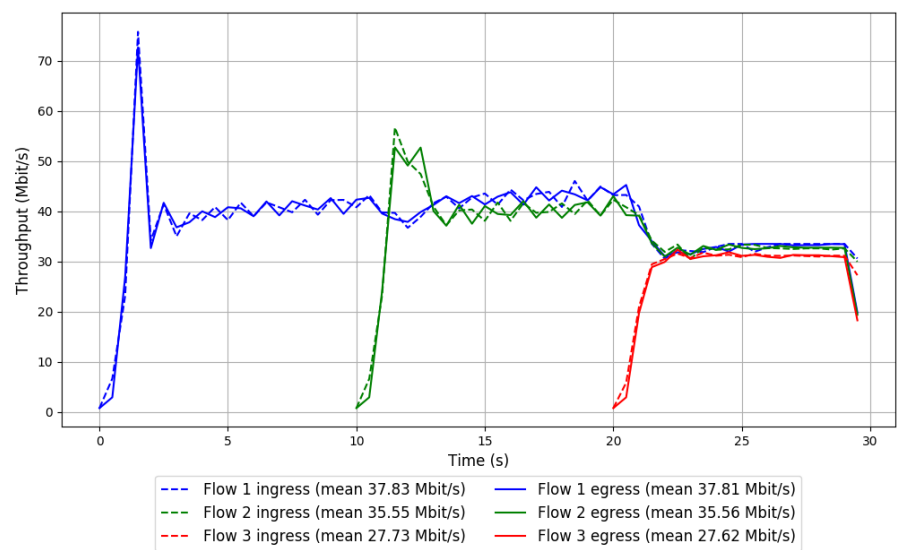


Run 10: Statistics of TCP Vegas

Start at: 2018-04-24 20:37:06  
End at: 2018-04-24 20:37:36  
Local clock offset: 3.958 ms  
Remote clock offset: -0.559 ms

# Below is generated by plot.py at 2018-04-25 00:51:11  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 70.41 Mbit/s  
95th percentile per-packet one-way delay: 84.987 ms  
Loss rate: 1.08%  
-- Flow 1:  
Average throughput: 37.81 Mbit/s  
95th percentile per-packet one-way delay: 84.771 ms  
Loss rate: 0.71%  
-- Flow 2:  
Average throughput: 35.56 Mbit/s  
95th percentile per-packet one-way delay: 84.403 ms  
Loss rate: 1.07%  
-- Flow 3:  
Average throughput: 27.62 Mbit/s  
95th percentile per-packet one-way delay: 86.275 ms  
Loss rate: 2.60%

Run 10: Report of TCP Vegas — Data Link



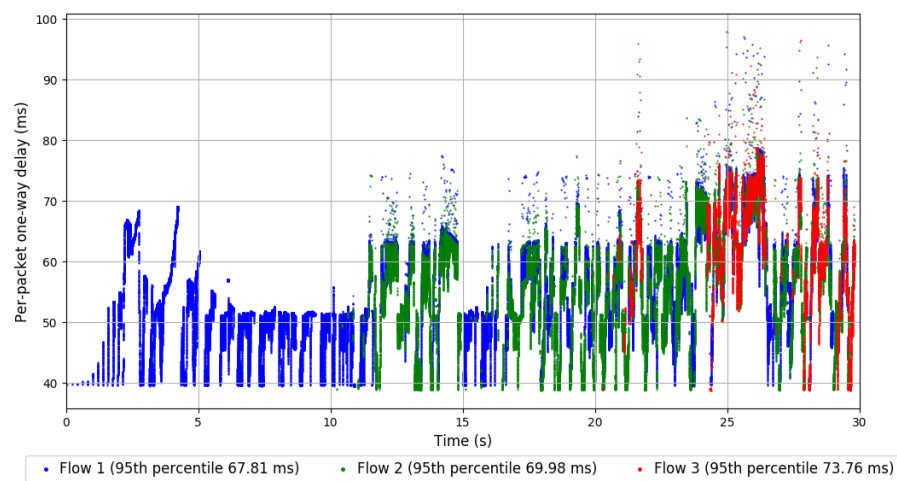
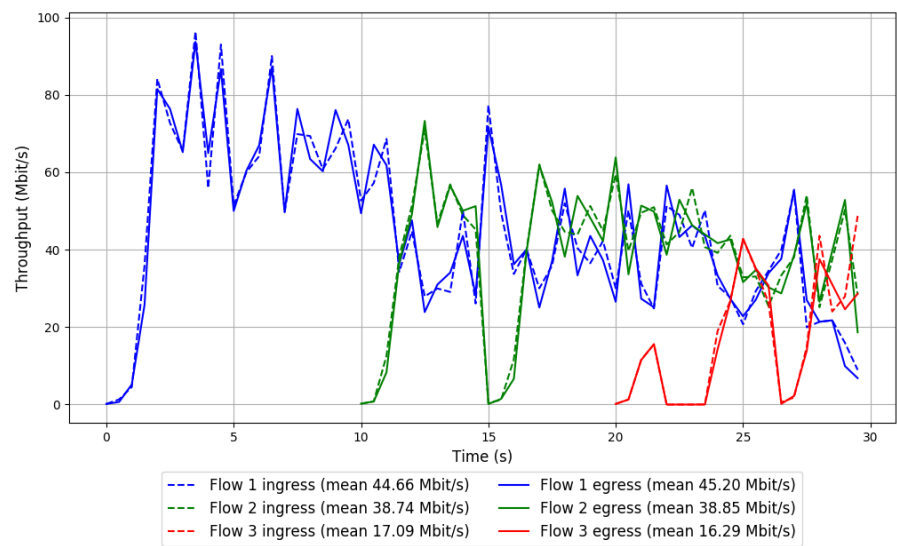


Run 1: Statistics of Verus

Start at: 2018-04-24 17:20:12  
End at: 2018-04-24 17:20:42  
Local clock offset: -1.054 ms  
Remote clock offset: -6.089 ms

# Below is generated by plot.py at 2018-04-25 00:51:17  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 75.90 Mbit/s  
95th percentile per-packet one-way delay: 69.578 ms  
Loss rate: 0.93%  
-- Flow 1:  
Average throughput: 45.20 Mbit/s  
95th percentile per-packet one-way delay: 67.815 ms  
Loss rate: 0.32%  
-- Flow 2:  
Average throughput: 38.85 Mbit/s  
95th percentile per-packet one-way delay: 69.983 ms  
Loss rate: 0.66%  
-- Flow 3:  
Average throughput: 16.29 Mbit/s  
95th percentile per-packet one-way delay: 73.761 ms  
Loss rate: 6.90%

Run 1: Report of Verus — Data Link

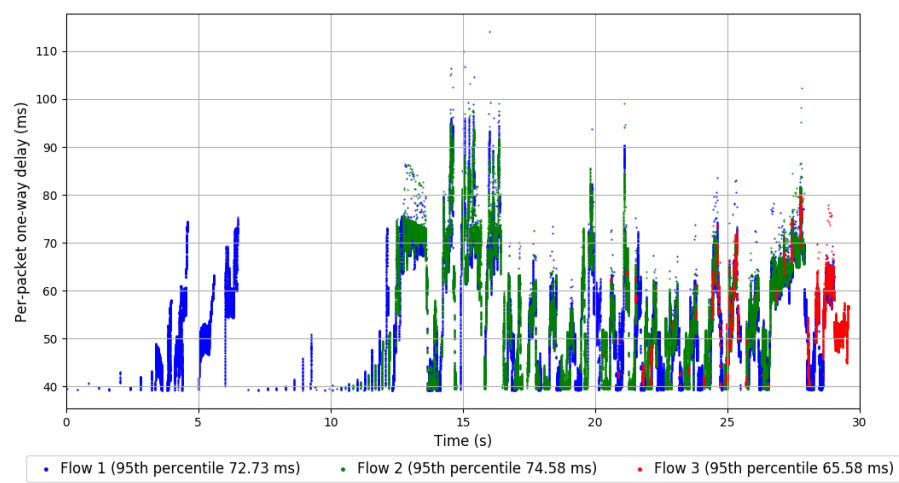
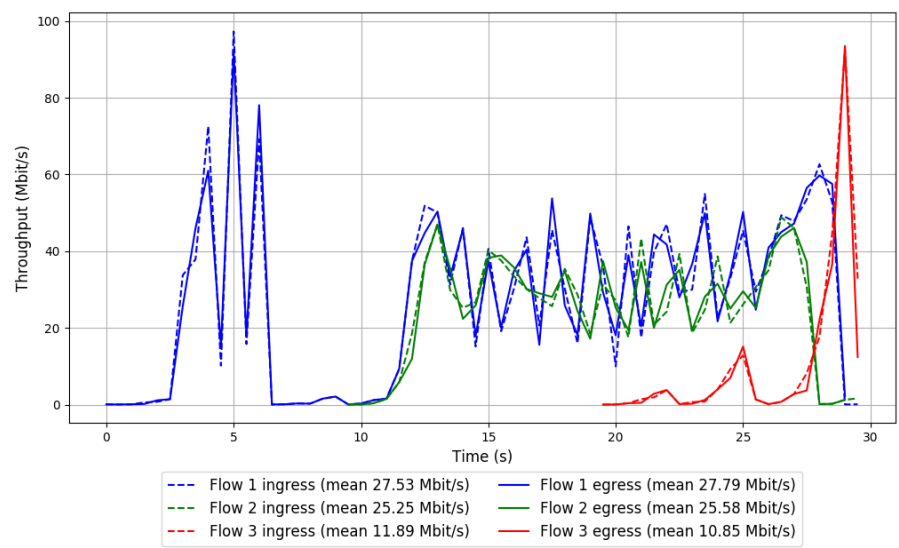


Run 2: Statistics of Verus

Start at: 2018-04-24 17:43:11  
End at: 2018-04-24 17:43:41  
Local clock offset: -3.333 ms  
Remote clock offset: -2.457 ms

# Below is generated by plot.py at 2018-04-25 00:51:17  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 47.94 Mbit/s  
95th percentile per-packet one-way delay: 73.276 ms  
Loss rate: 1.06%  
-- Flow 1:  
Average throughput: 27.79 Mbit/s  
95th percentile per-packet one-way delay: 72.729 ms  
Loss rate: 0.07%  
-- Flow 2:  
Average throughput: 25.58 Mbit/s  
95th percentile per-packet one-way delay: 74.583 ms  
Loss rate: 0.17%  
-- Flow 3:  
Average throughput: 10.85 Mbit/s  
95th percentile per-packet one-way delay: 65.585 ms  
Loss rate: 11.72%

Run 2: Report of Verus — Data Link

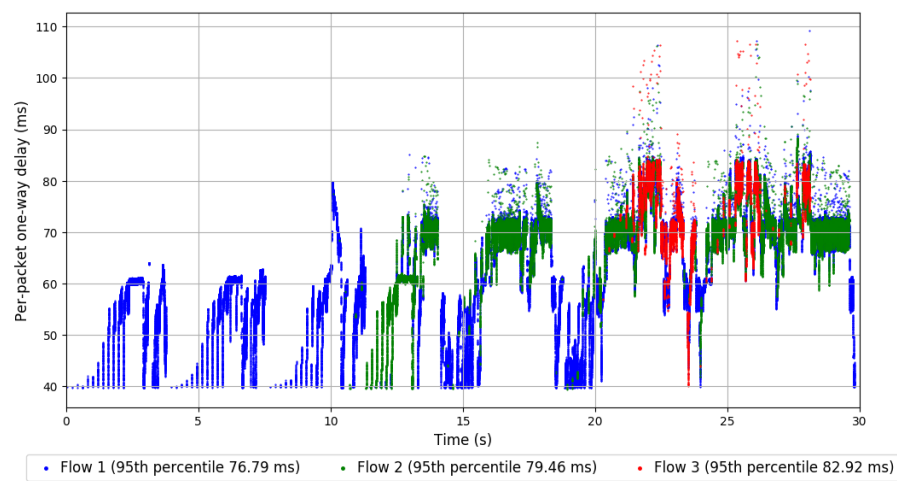
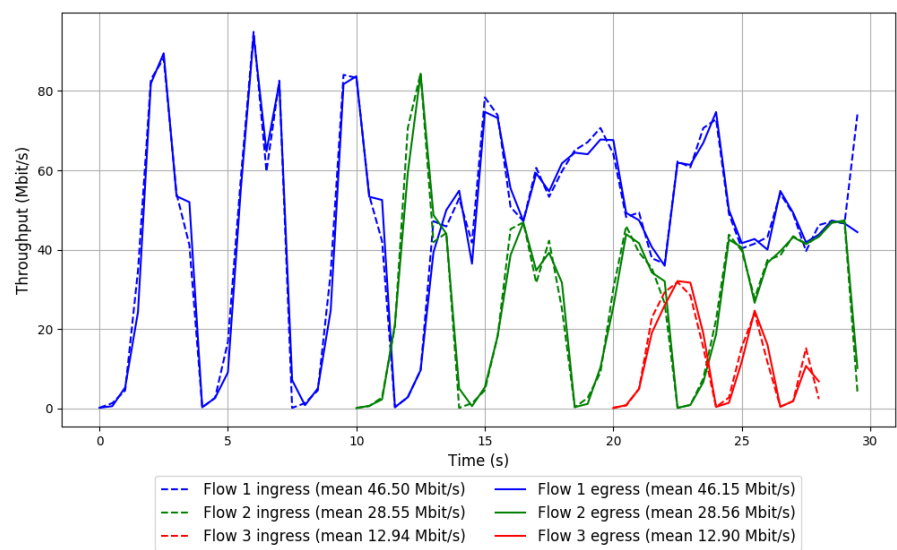


Run 3: Statistics of Verus

Start at: 2018-04-24 18:06:11  
End at: 2018-04-24 18:06:41  
Local clock offset: -6.358 ms  
Remote clock offset: -1.809 ms

# Below is generated by plot.py at 2018-04-25 00:51:44  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 68.36 Mbit/s  
95th percentile per-packet one-way delay: 78.914 ms  
Loss rate: 0.92%  
-- Flow 1:  
Average throughput: 46.15 Mbit/s  
95th percentile per-packet one-way delay: 76.786 ms  
Loss rate: 1.35%  
-- Flow 2:  
Average throughput: 28.56 Mbit/s  
95th percentile per-packet one-way delay: 79.463 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 12.90 Mbit/s  
95th percentile per-packet one-way delay: 82.916 ms  
Loss rate: 0.05%

Run 3: Report of Verus — Data Link

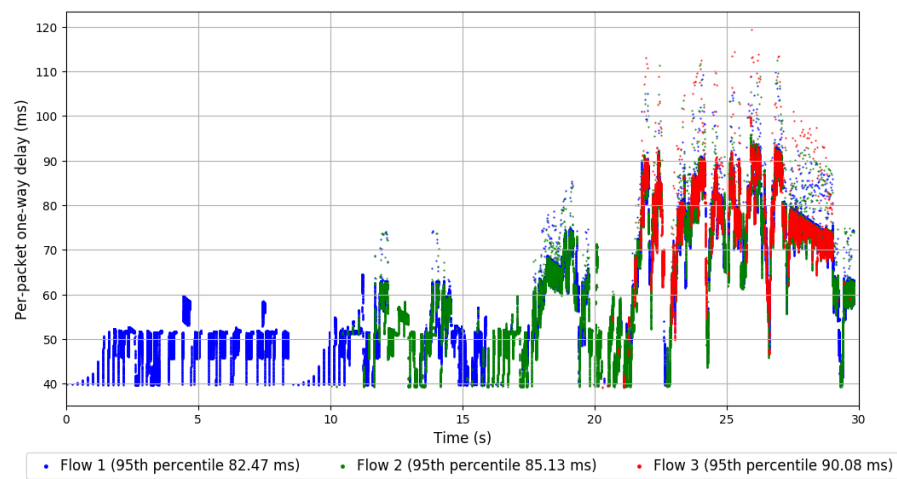
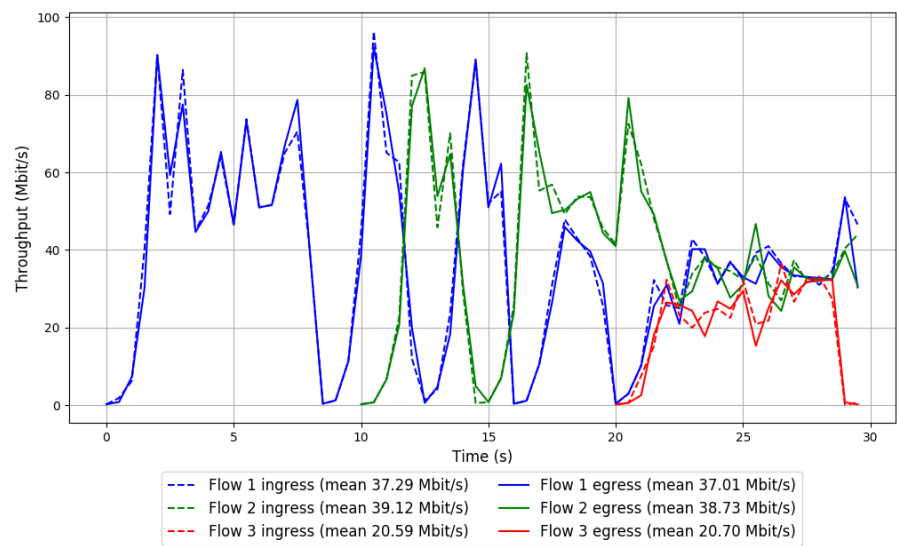


Run 4: Statistics of Verus

Start at: 2018-04-24 18:29:04  
End at: 2018-04-24 18:29:34  
Local clock offset: -0.897 ms  
Remote clock offset: -1.449 ms

# Below is generated by plot.py at 2018-04-25 00:51:48  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 69.35 Mbit/s  
95th percentile per-packet one-way delay: 85.517 ms  
Loss rate: 1.67%  
-- Flow 1:  
Average throughput: 37.01 Mbit/s  
95th percentile per-packet one-way delay: 82.472 ms  
Loss rate: 1.44%  
-- Flow 2:  
Average throughput: 38.73 Mbit/s  
95th percentile per-packet one-way delay: 85.126 ms  
Loss rate: 2.00%  
-- Flow 3:  
Average throughput: 20.70 Mbit/s  
95th percentile per-packet one-way delay: 90.079 ms  
Loss rate: 1.66%

Run 4: Report of Verus — Data Link



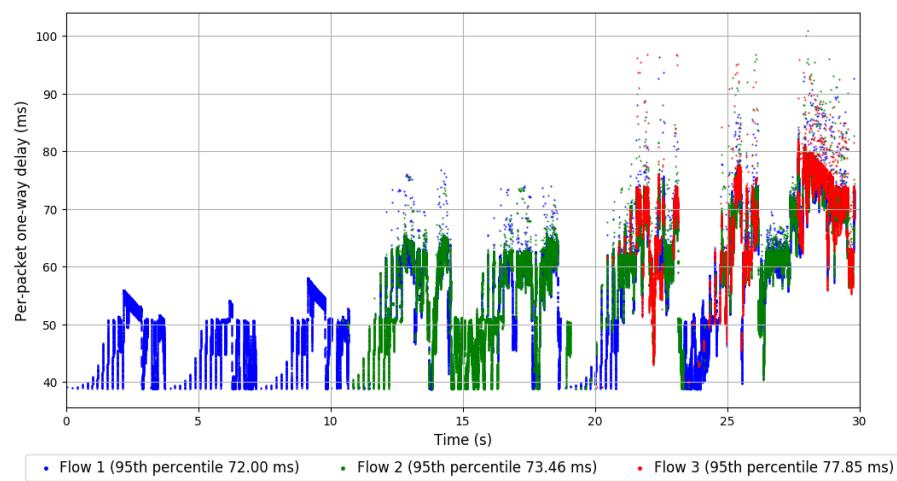
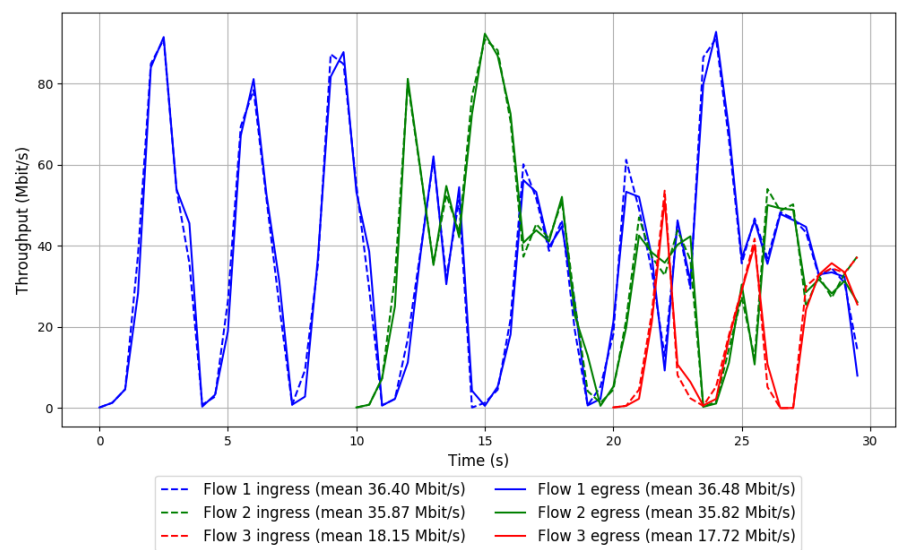


Run 5: Statistics of Verus

Start at: 2018-04-24 18:51:56  
End at: 2018-04-24 18:52:26  
Local clock offset: 1.454 ms  
Remote clock offset: -1.507 ms

# Below is generated by plot.py at 2018-04-25 00:52:00  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 66.05 Mbit/s  
95th percentile per-packet one-way delay: 74.027 ms  
Loss rate: 1.08%  
-- Flow 1:  
Average throughput: 36.48 Mbit/s  
95th percentile per-packet one-way delay: 72.004 ms  
Loss rate: 0.49%  
-- Flow 2:  
Average throughput: 35.82 Mbit/s  
95th percentile per-packet one-way delay: 73.456 ms  
Loss rate: 1.14%  
-- Flow 3:  
Average throughput: 17.72 Mbit/s  
95th percentile per-packet one-way delay: 77.846 ms  
Loss rate: 4.43%

Run 5: Report of Verus — Data Link

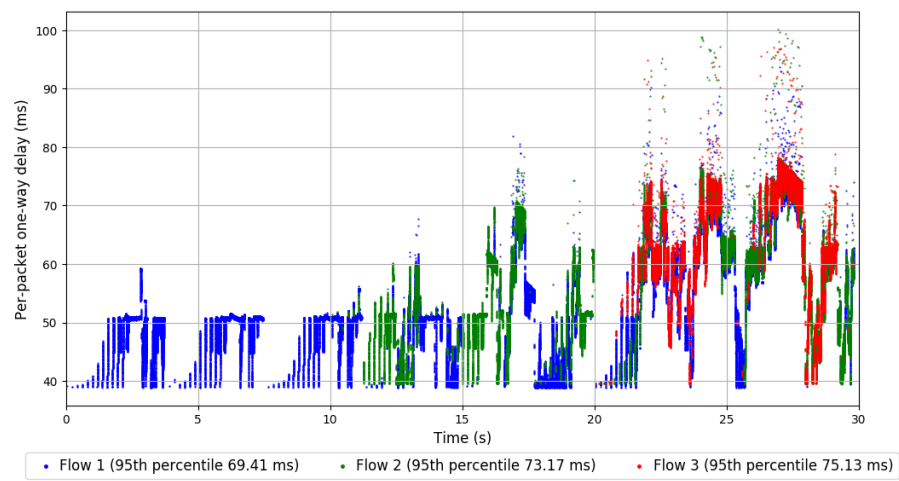
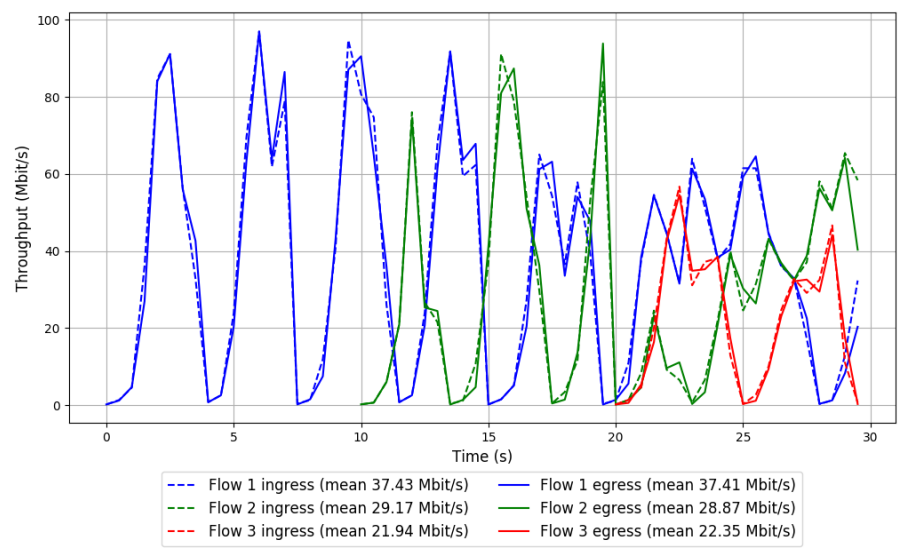


Run 6: Statistics of Verus

Start at: 2018-04-24 19:14:50  
End at: 2018-04-24 19:15:20  
Local clock offset: 3.32 ms  
Remote clock offset: -1.463 ms

# Below is generated by plot.py at 2018-04-25 00:52:00  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 63.86 Mbit/s  
95th percentile per-packet one-way delay: 72.885 ms  
Loss rate: 1.08%  
-- Flow 1:  
Average throughput: 37.41 Mbit/s  
95th percentile per-packet one-way delay: 69.411 ms  
Loss rate: 0.75%  
-- Flow 2:  
Average throughput: 28.87 Mbit/s  
95th percentile per-packet one-way delay: 73.168 ms  
Loss rate: 2.10%  
-- Flow 3:  
Average throughput: 22.35 Mbit/s  
95th percentile per-packet one-way delay: 75.127 ms  
Loss rate: 0.09%

Run 6: Report of Verus — Data Link

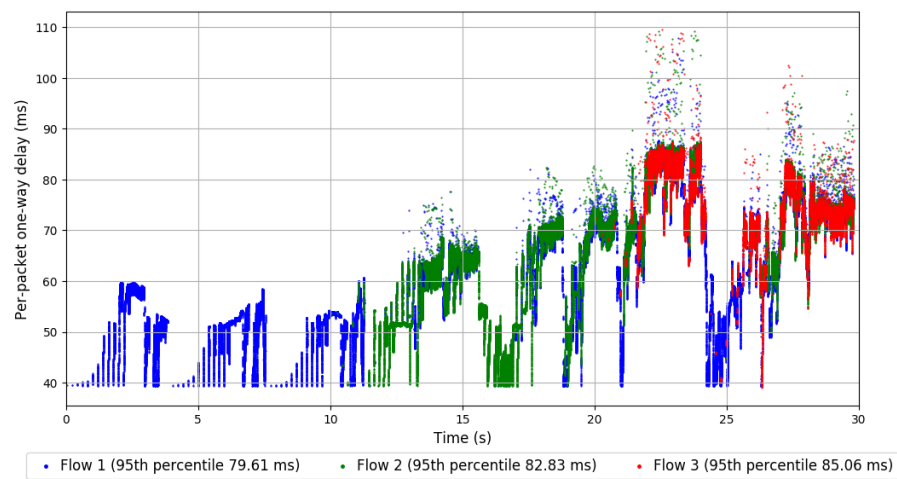
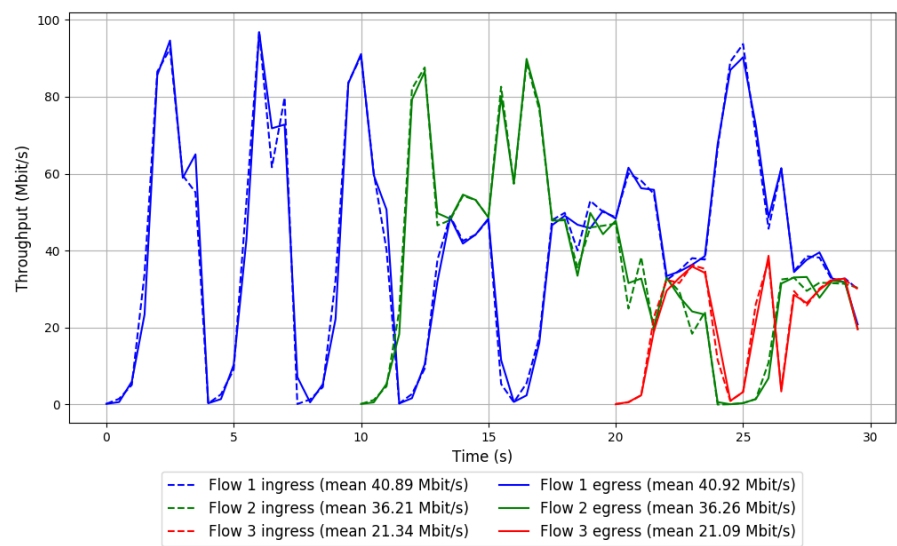


Run 7: Statistics of Verus

Start at: 2018-04-24 19:37:38  
End at: 2018-04-24 19:38:08  
Local clock offset: -2.356 ms  
Remote clock offset: -0.912 ms

# Below is generated by plot.py at 2018-04-25 00:52:12  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 71.87 Mbit/s  
95th percentile per-packet one-way delay: 82.503 ms  
Loss rate: 1.03%  
-- Flow 1:  
Average throughput: 40.92 Mbit/s  
95th percentile per-packet one-way delay: 79.605 ms  
Loss rate: 0.61%  
-- Flow 2:  
Average throughput: 36.26 Mbit/s  
95th percentile per-packet one-way delay: 82.828 ms  
Loss rate: 1.03%  
-- Flow 3:  
Average throughput: 21.09 Mbit/s  
95th percentile per-packet one-way delay: 85.065 ms  
Loss rate: 3.51%

Run 7: Report of Verus — Data Link

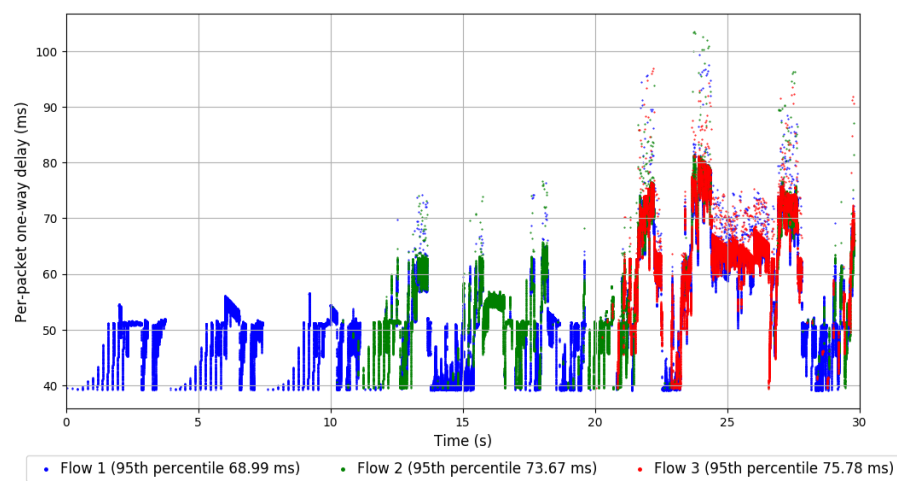
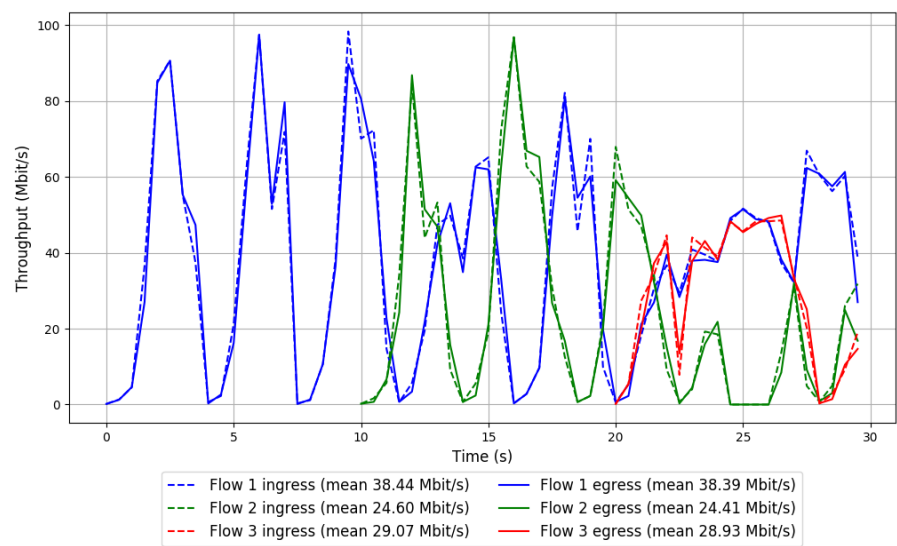


Run 8: Statistics of Verus

Start at: 2018-04-24 20:00:32  
End at: 2018-04-24 20:01:02  
Local clock offset: 1.782 ms  
Remote clock offset: -0.816 ms

# Below is generated by plot.py at 2018-04-25 00:52:12  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 64.04 Mbit/s  
95th percentile per-packet one-way delay: 72.960 ms  
Loss rate: 1.07%  
-- Flow 1:  
Average throughput: 38.39 Mbit/s  
95th percentile per-packet one-way delay: 68.994 ms  
Loss rate: 0.81%  
-- Flow 2:  
Average throughput: 24.41 Mbit/s  
95th percentile per-packet one-way delay: 73.668 ms  
Loss rate: 1.84%  
-- Flow 3:  
Average throughput: 28.93 Mbit/s  
95th percentile per-packet one-way delay: 75.782 ms  
Loss rate: 0.77%

Run 8: Report of Verus — Data Link



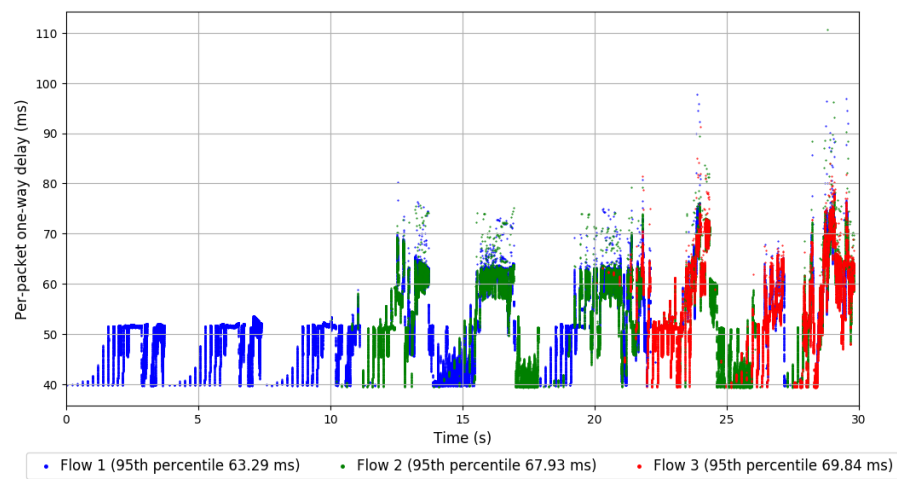
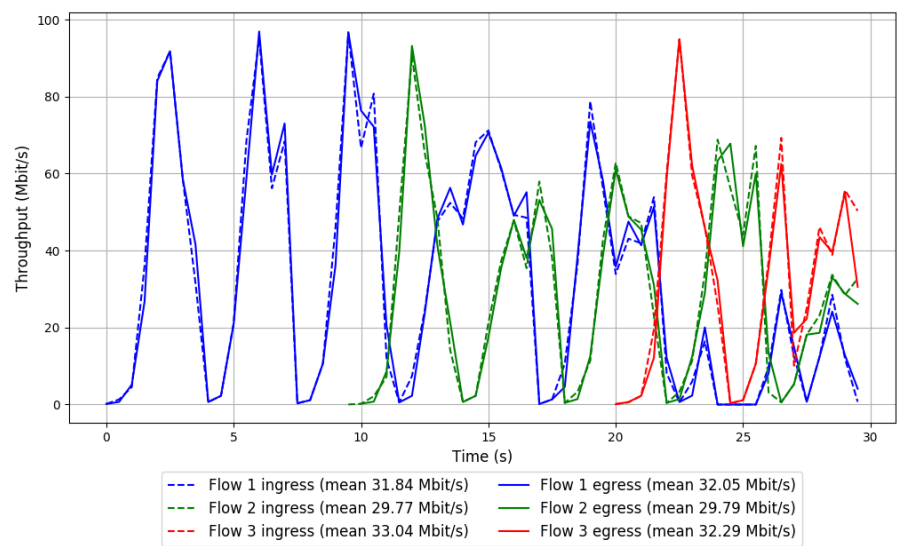


Run 9: Statistics of Verus

Start at: 2018-04-24 20:23:41  
End at: 2018-04-24 20:24:11  
Local clock offset: 6.071 ms  
Remote clock offset: -0.648 ms

# Below is generated by plot.py at 2018-04-25 00:52:14  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 62.38 Mbit/s  
95th percentile per-packet one-way delay: 65.808 ms  
Loss rate: 0.98%  
-- Flow 1:  
Average throughput: 32.05 Mbit/s  
95th percentile per-packet one-way delay: 63.287 ms  
Loss rate: 0.01%  
-- Flow 2:  
Average throughput: 29.79 Mbit/s  
95th percentile per-packet one-way delay: 67.933 ms  
Loss rate: 0.97%  
-- Flow 3:  
Average throughput: 32.29 Mbit/s  
95th percentile per-packet one-way delay: 69.836 ms  
Loss rate: 3.84%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-04-24 20:46:31

End at: 2018-04-24 20:47:01

Local clock offset: 3.889 ms

Remote clock offset: -0.59 ms

# Below is generated by plot.py at 2018-04-25 00:52:23

# Datalink statistics

-- Total of 3 flows:

Average throughput: 66.70 Mbit/s

95th percentile per-packet one-way delay: 69.257 ms

Loss rate: 0.20%

-- Flow 1:

Average throughput: 37.03 Mbit/s

95th percentile per-packet one-way delay: 67.983 ms

Loss rate: 0.15%

-- Flow 2:

Average throughput: 32.75 Mbit/s

95th percentile per-packet one-way delay: 70.501 ms

Loss rate: 0.03%

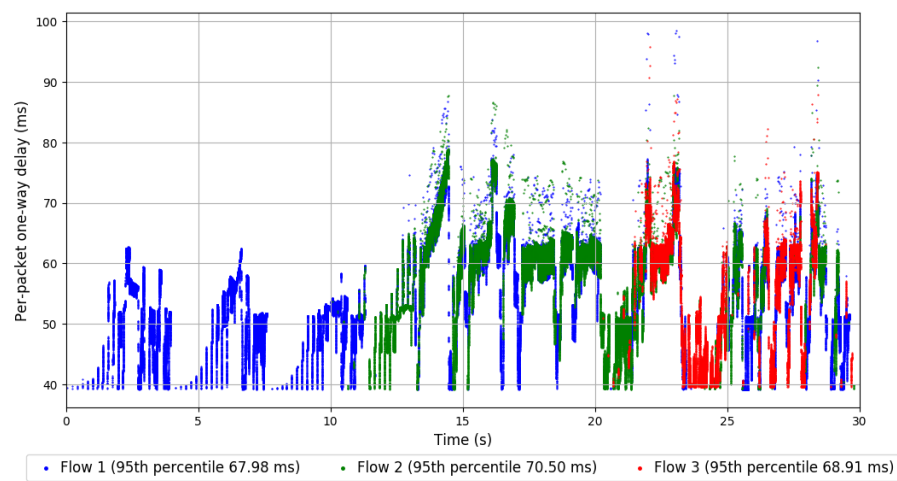
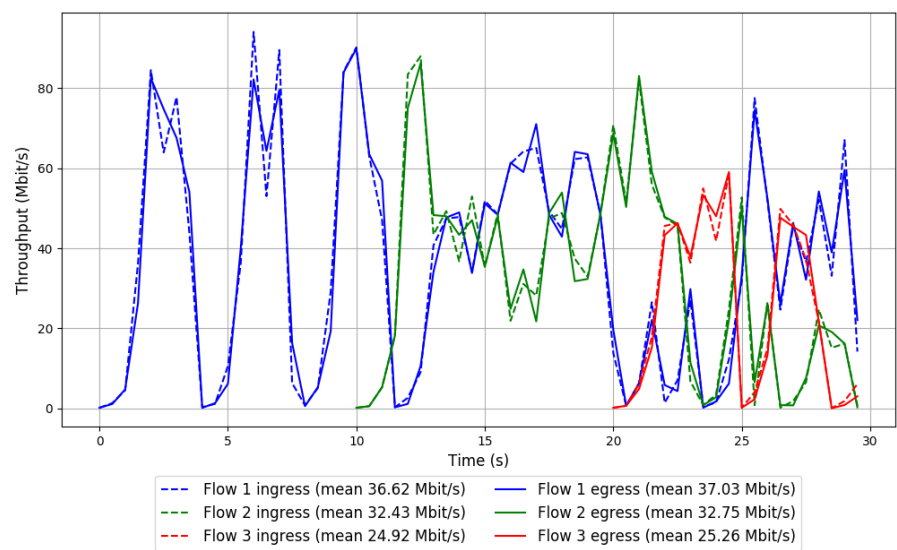
-- Flow 3:

Average throughput: 25.26 Mbit/s

95th percentile per-packet one-way delay: 68.912 ms

Loss rate: 0.83%

Run 10: Report of Verus — Data Link

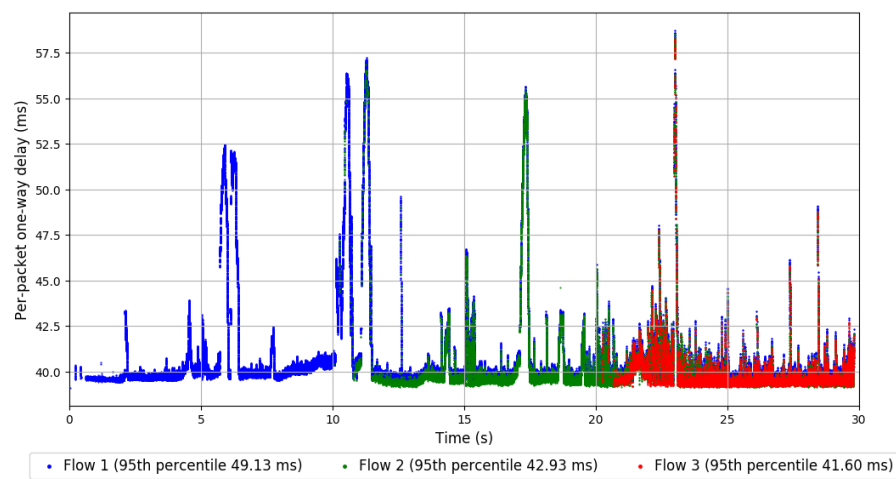
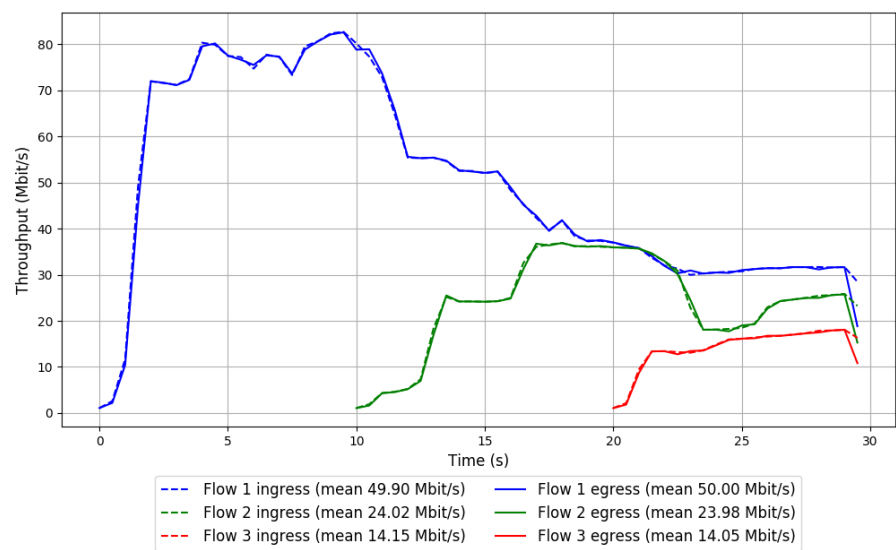


Run 1: Statistics of Copa

Start at: 2018-04-24 17:18:48  
End at: 2018-04-24 17:19:18  
Local clock offset: -1.138 ms  
Remote clock offset: -6.001 ms

# Below is generated by plot.py at 2018-04-25 00:53:50  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 70.51 Mbit/s  
95th percentile per-packet one-way delay: 47.258 ms  
Loss rate: 0.74%  
-- Flow 1:  
Average throughput: 50.00 Mbit/s  
95th percentile per-packet one-way delay: 49.132 ms  
Loss rate: 0.44%  
-- Flow 2:  
Average throughput: 23.98 Mbit/s  
95th percentile per-packet one-way delay: 42.932 ms  
Loss rate: 1.13%  
-- Flow 3:  
Average throughput: 14.05 Mbit/s  
95th percentile per-packet one-way delay: 41.596 ms  
Loss rate: 2.62%

Run 1: Report of Copa — Data Link

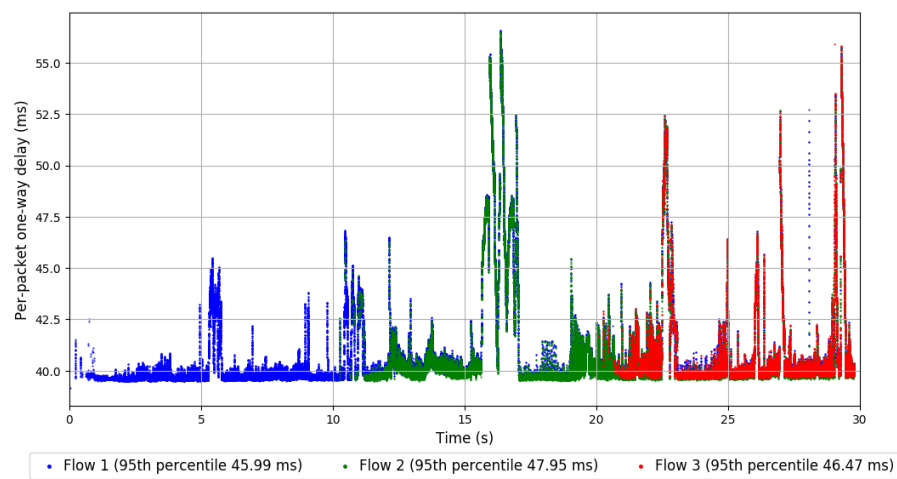
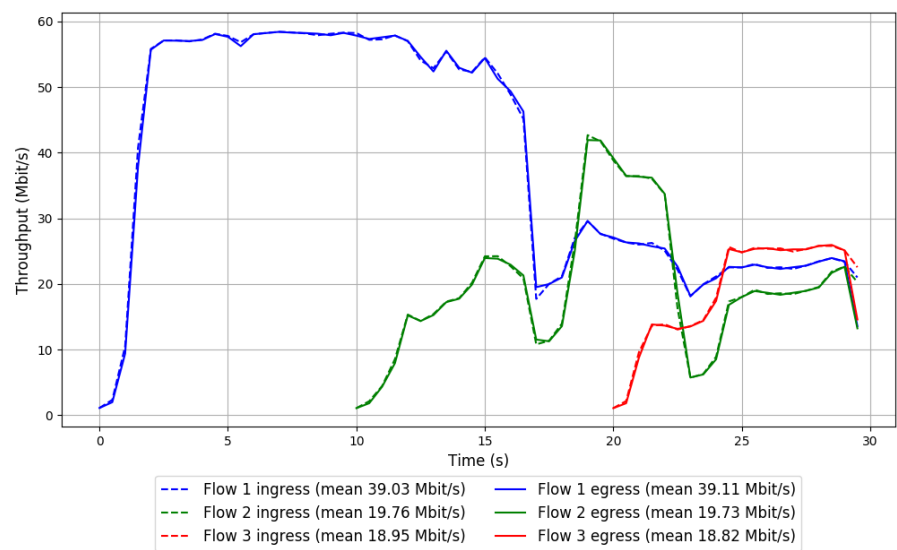


Run 2: Statistics of Copa

Start at: 2018-04-24 17:41:41  
End at: 2018-04-24 17:42:11  
Local clock offset: -2.893 ms  
Remote clock offset: -2.606 ms

# Below is generated by plot.py at 2018-04-25 00:53:50  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 58.34 Mbit/s  
95th percentile per-packet one-way delay: 46.700 ms  
Loss rate: 0.83%  
-- Flow 1:  
Average throughput: 39.11 Mbit/s  
95th percentile per-packet one-way delay: 45.990 ms  
Loss rate: 0.44%  
-- Flow 2:  
Average throughput: 19.73 Mbit/s  
95th percentile per-packet one-way delay: 47.946 ms  
Loss rate: 1.14%  
-- Flow 3:  
Average throughput: 18.82 Mbit/s  
95th percentile per-packet one-way delay: 46.470 ms  
Loss rate: 2.63%

Run 2: Report of Copa — Data Link



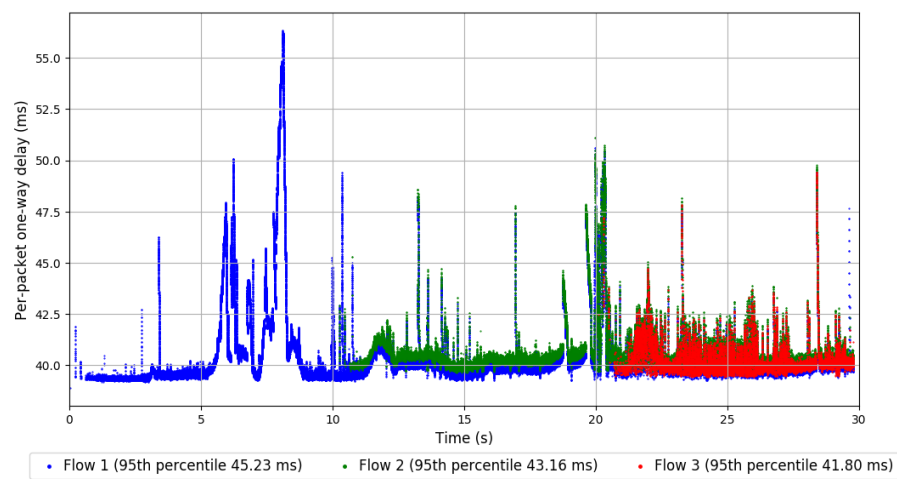
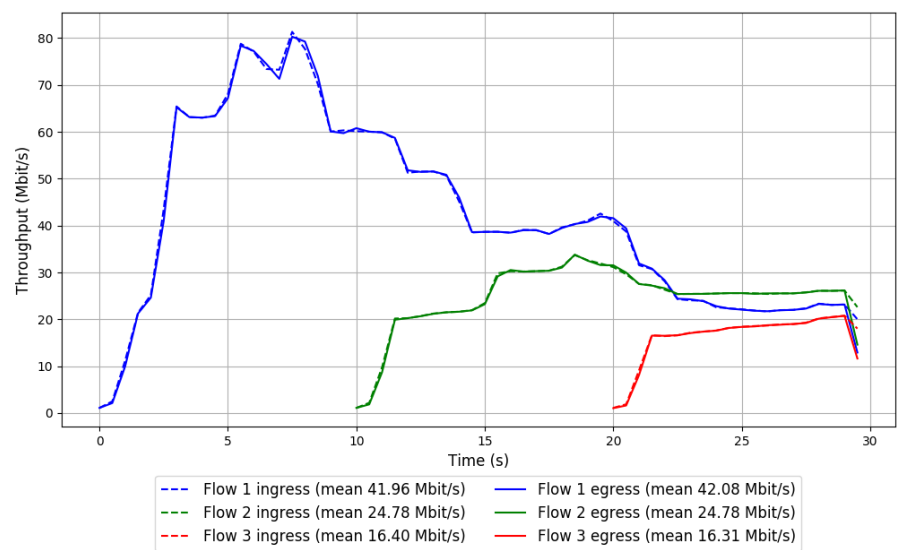


Run 3: Statistics of Copa

Start at: 2018-04-24 18:04:47  
End at: 2018-04-24 18:05:17  
Local clock offset: -6.306 ms  
Remote clock offset: -2.046 ms

# Below is generated by plot.py at 2018-04-25 00:53:50  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 63.82 Mbit/s  
95th percentile per-packet one-way delay: 44.407 ms  
Loss rate: 0.71%  
-- Flow 1:  
Average throughput: 42.08 Mbit/s  
95th percentile per-packet one-way delay: 45.227 ms  
Loss rate: 0.36%  
-- Flow 2:  
Average throughput: 24.78 Mbit/s  
95th percentile per-packet one-way delay: 43.158 ms  
Loss rate: 1.02%  
-- Flow 3:  
Average throughput: 16.31 Mbit/s  
95th percentile per-packet one-way delay: 41.799 ms  
Loss rate: 2.49%

Run 3: Report of Copa — Data Link

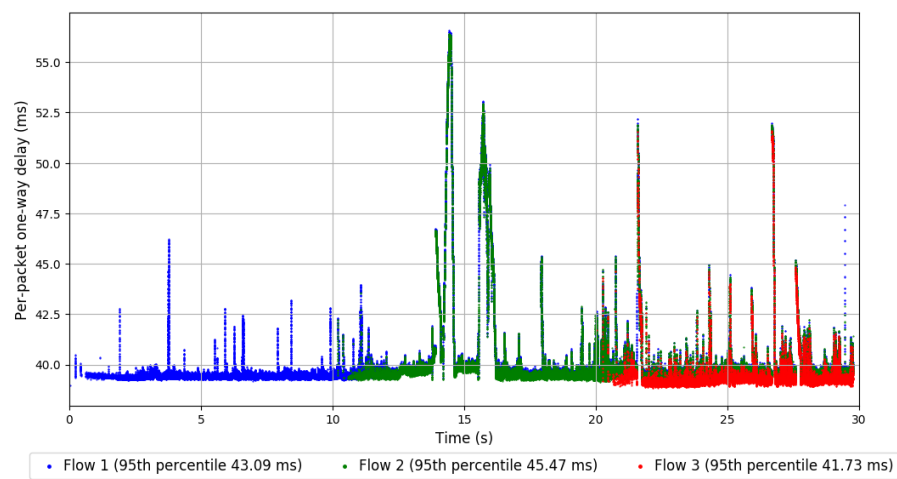
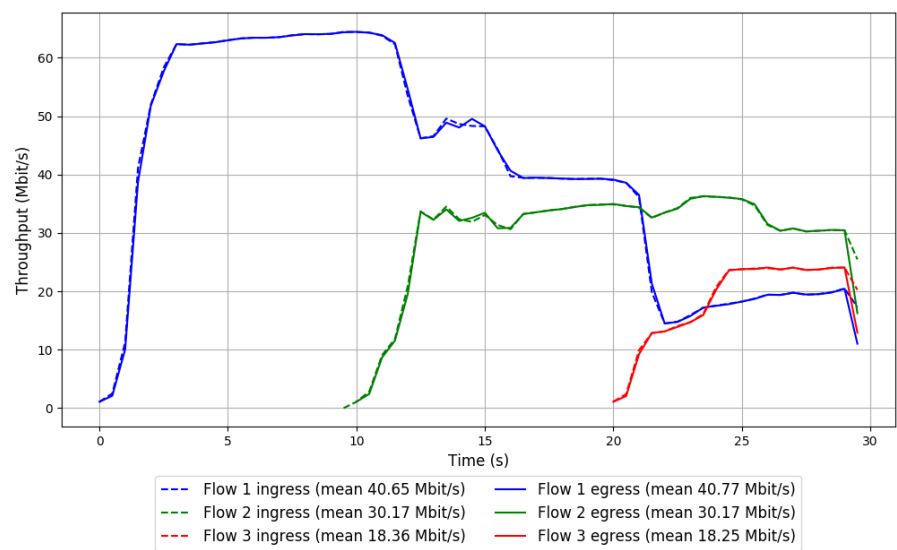


Run 4: Statistics of Copa

Start at: 2018-04-24 18:27:40  
End at: 2018-04-24 18:28:10  
Local clock offset: -1.02 ms  
Remote clock offset: -1.379 ms

# Below is generated by plot.py at 2018-04-25 00:53:57  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 66.78 Mbit/s  
95th percentile per-packet one-way delay: 43.655 ms  
Loss rate: 0.72%  
-- Flow 1:  
Average throughput: 40.77 Mbit/s  
95th percentile per-packet one-way delay: 43.085 ms  
Loss rate: 0.33%  
-- Flow 2:  
Average throughput: 30.17 Mbit/s  
95th percentile per-packet one-way delay: 45.466 ms  
Loss rate: 0.97%  
-- Flow 3:  
Average throughput: 18.25 Mbit/s  
95th percentile per-packet one-way delay: 41.727 ms  
Loss rate: 2.54%

Run 4: Report of Copa — Data Link

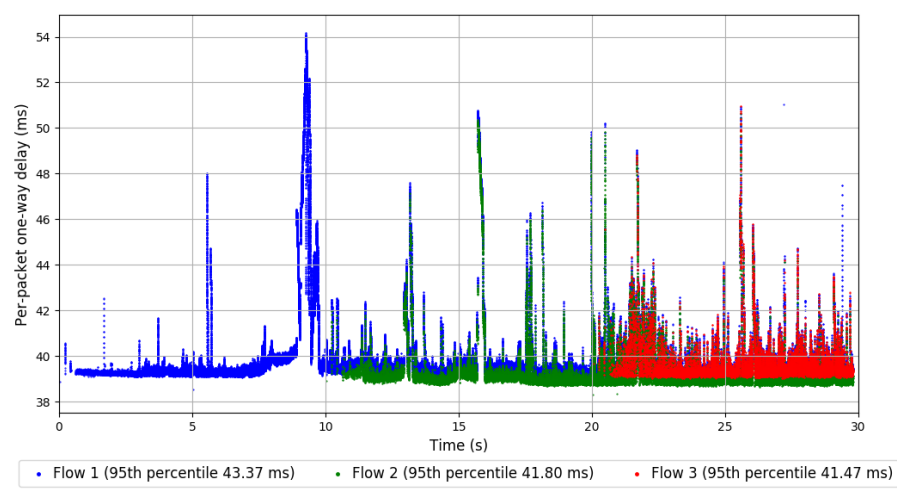
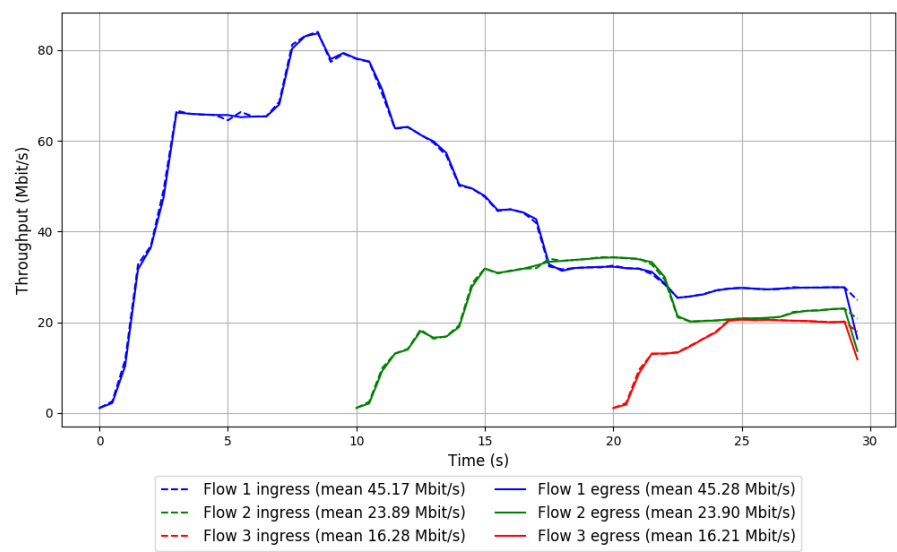


Run 5: Statistics of Copa

Start at: 2018-04-24 18:50:32  
End at: 2018-04-24 18:51:02  
Local clock offset: 1.268 ms  
Remote clock offset: -1.453 ms

# Below is generated by plot.py at 2018-04-25 00:53:59  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 66.44 Mbit/s  
95th percentile per-packet one-way delay: 42.721 ms  
Loss rate: 0.68%  
-- Flow 1:  
Average throughput: 45.28 Mbit/s  
95th percentile per-packet one-way delay: 43.367 ms  
Loss rate: 0.40%  
-- Flow 2:  
Average throughput: 23.90 Mbit/s  
95th percentile per-packet one-way delay: 41.800 ms  
Loss rate: 0.93%  
-- Flow 3:  
Average throughput: 16.21 Mbit/s  
95th percentile per-packet one-way delay: 41.472 ms  
Loss rate: 2.37%

Run 5: Report of Copa — Data Link

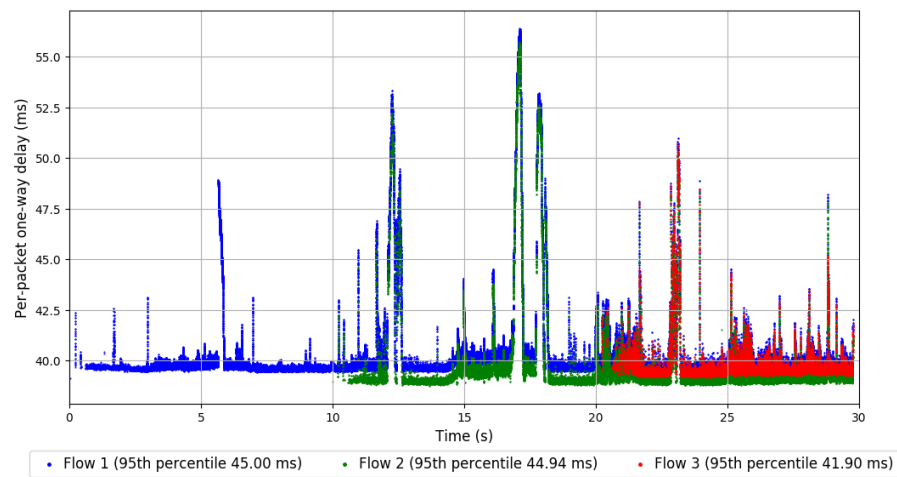
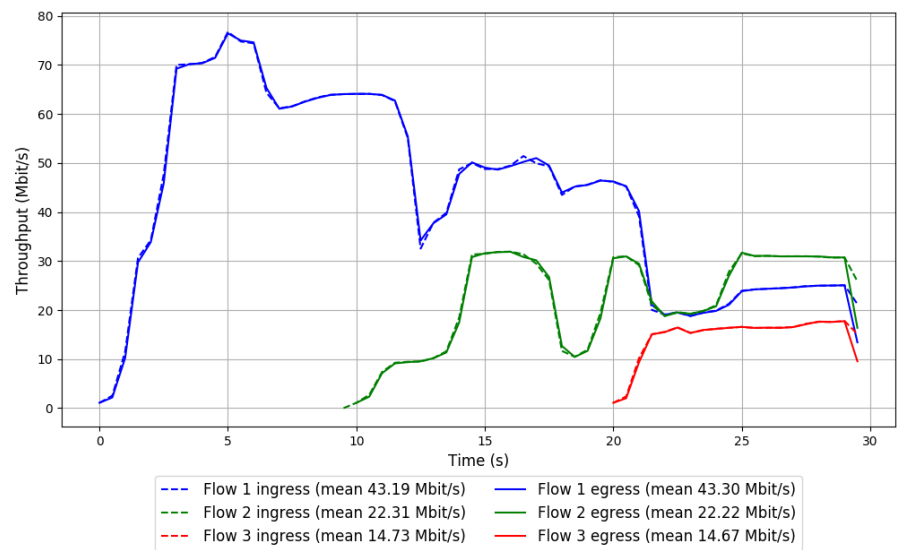


Run 6: Statistics of Copa

Start at: 2018-04-24 19:13:27  
End at: 2018-04-24 19:13:57  
Local clock offset: 3.278 ms  
Remote clock offset: -1.544 ms

# Below is generated by plot.py at 2018-04-25 00:54:00  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 62.86 Mbit/s  
95th percentile per-packet one-way delay: 44.661 ms  
Loss rate: 0.76%  
-- Flow 1:  
Average throughput: 43.30 Mbit/s  
95th percentile per-packet one-way delay: 44.999 ms  
Loss rate: 0.38%  
-- Flow 2:  
Average throughput: 22.22 Mbit/s  
95th percentile per-packet one-way delay: 44.938 ms  
Loss rate: 1.34%  
-- Flow 3:  
Average throughput: 14.67 Mbit/s  
95th percentile per-packet one-way delay: 41.904 ms  
Loss rate: 2.39%

Run 6: Report of Copa — Data Link



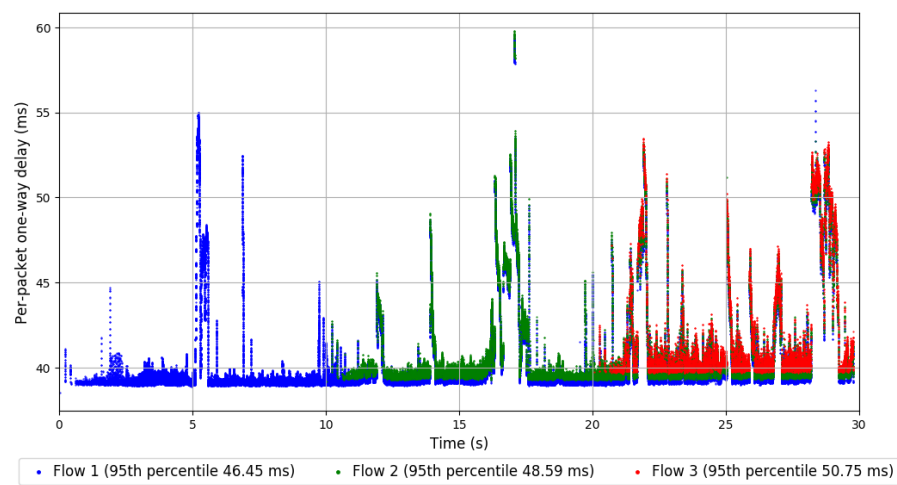
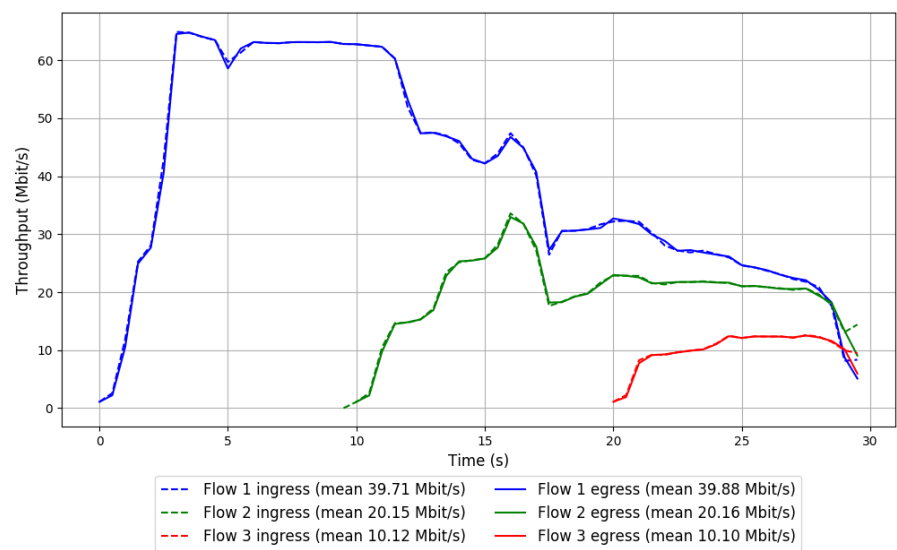


Run 7: Statistics of Copa

Start at: 2018-04-24 19:36:16  
End at: 2018-04-24 19:36:46  
Local clock offset: -2.12 ms  
Remote clock offset: -0.907 ms

# Below is generated by plot.py at 2018-04-25 00:54:00  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 56.55 Mbit/s  
95th percentile per-packet one-way delay: 47.529 ms  
Loss rate: 0.51%  
-- Flow 1:  
Average throughput: 39.88 Mbit/s  
95th percentile per-packet one-way delay: 46.454 ms  
Loss rate: 0.23%  
-- Flow 2:  
Average throughput: 20.16 Mbit/s  
95th percentile per-packet one-way delay: 48.592 ms  
Loss rate: 0.91%  
-- Flow 3:  
Average throughput: 10.10 Mbit/s  
95th percentile per-packet one-way delay: 50.747 ms  
Loss rate: 2.21%

Run 7: Report of Copa — Data Link

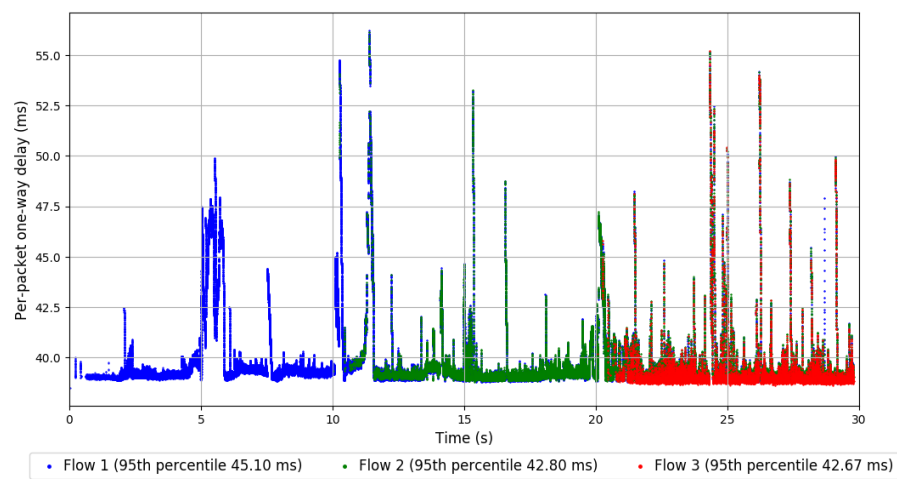
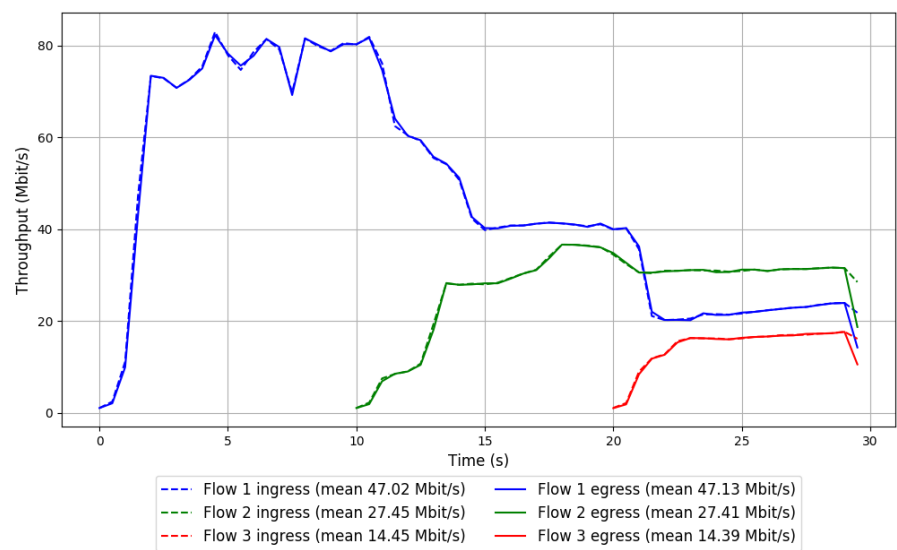


Run 8: Statistics of Copa

Start at: 2018-04-24 19:59:08  
End at: 2018-04-24 19:59:38  
Local clock offset: 1.057 ms  
Remote clock offset: -0.739 ms

# Below is generated by plot.py at 2018-04-25 00:54:19  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 70.02 Mbit/s  
95th percentile per-packet one-way delay: 44.323 ms  
Loss rate: 0.73%  
-- Flow 1:  
Average throughput: 47.13 Mbit/s  
95th percentile per-packet one-way delay: 45.105 ms  
Loss rate: 0.40%  
-- Flow 2:  
Average throughput: 27.41 Mbit/s  
95th percentile per-packet one-way delay: 42.801 ms  
Loss rate: 1.14%  
-- Flow 3:  
Average throughput: 14.39 Mbit/s  
95th percentile per-packet one-way delay: 42.675 ms  
Loss rate: 2.43%

Run 8: Report of Copa — Data Link

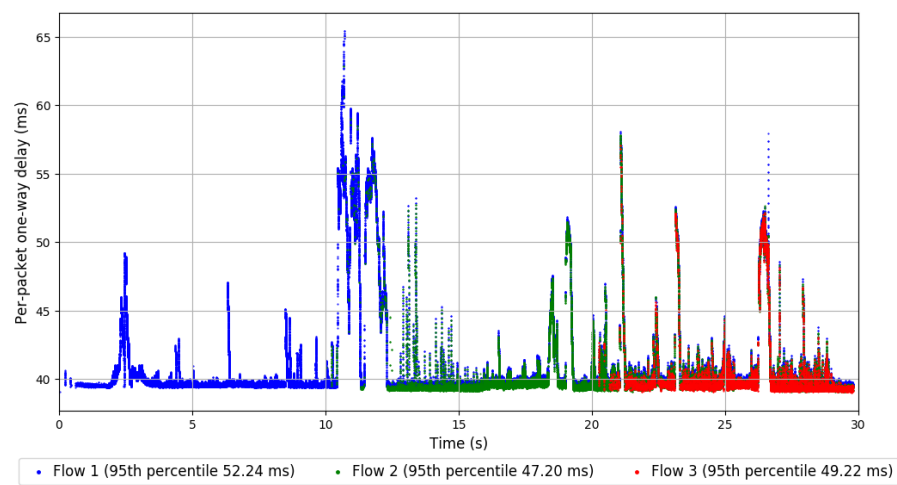
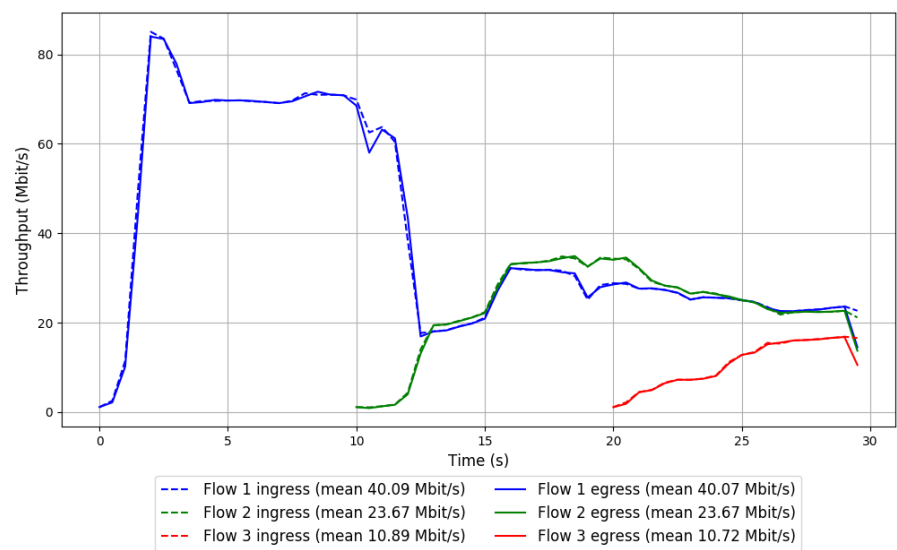


Run 9: Statistics of Copa

Start at: 2018-04-24 20:22:17  
End at: 2018-04-24 20:22:47  
Local clock offset: 5.642 ms  
Remote clock offset: -0.708 ms

# Below is generated by plot.py at 2018-04-25 00:55:12  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 59.27 Mbit/s  
95th percentile per-packet one-way delay: 50.636 ms  
Loss rate: 0.94%  
-- Flow 1:  
Average throughput: 40.07 Mbit/s  
95th percentile per-packet one-way delay: 52.245 ms  
Loss rate: 0.70%  
-- Flow 2:  
Average throughput: 23.67 Mbit/s  
95th percentile per-packet one-way delay: 47.202 ms  
Loss rate: 0.99%  
-- Flow 3:  
Average throughput: 10.72 Mbit/s  
95th percentile per-packet one-way delay: 49.217 ms  
Loss rate: 3.44%

Run 9: Report of Copa — Data Link

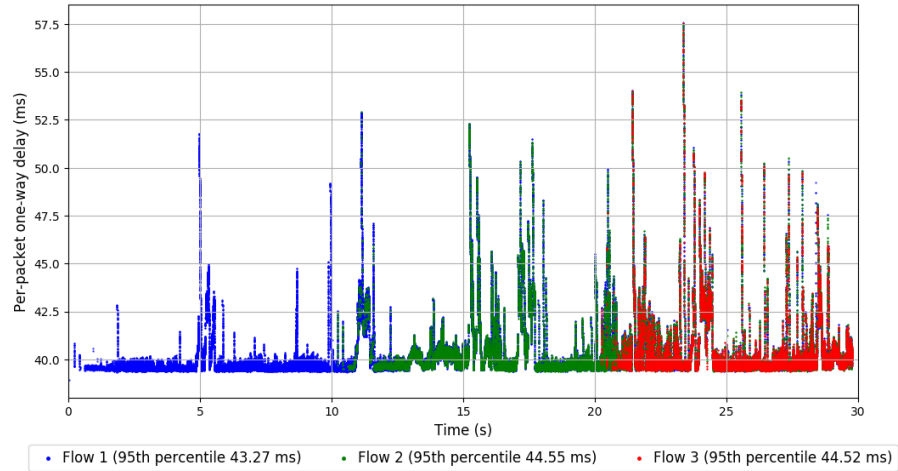
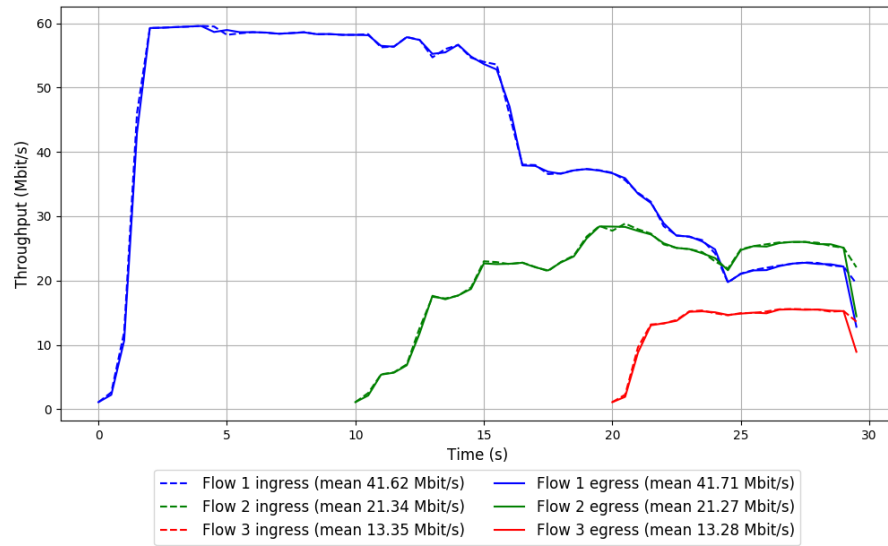


Run 10: Statistics of Copa

Start at: 2018-04-24 20:45:08  
End at: 2018-04-24 20:45:38  
Local clock offset: 4.093 ms  
Remote clock offset: -0.656 ms

# Below is generated by plot.py at 2018-04-25 00:55:31  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 60.17 Mbit/s  
95th percentile per-packet one-way delay: 43.613 ms  
Loss rate: 0.78%  
-- Flow 1:  
Average throughput: 41.71 Mbit/s  
95th percentile per-packet one-way delay: 43.271 ms  
Loss rate: 0.43%  
-- Flow 2:  
Average throughput: 21.27 Mbit/s  
95th percentile per-packet one-way delay: 44.555 ms  
Loss rate: 1.29%  
-- Flow 3:  
Average throughput: 13.28 Mbit/s  
95th percentile per-packet one-way delay: 44.515 ms  
Loss rate: 2.43%

# Run 10: Report of Copa — Data Link



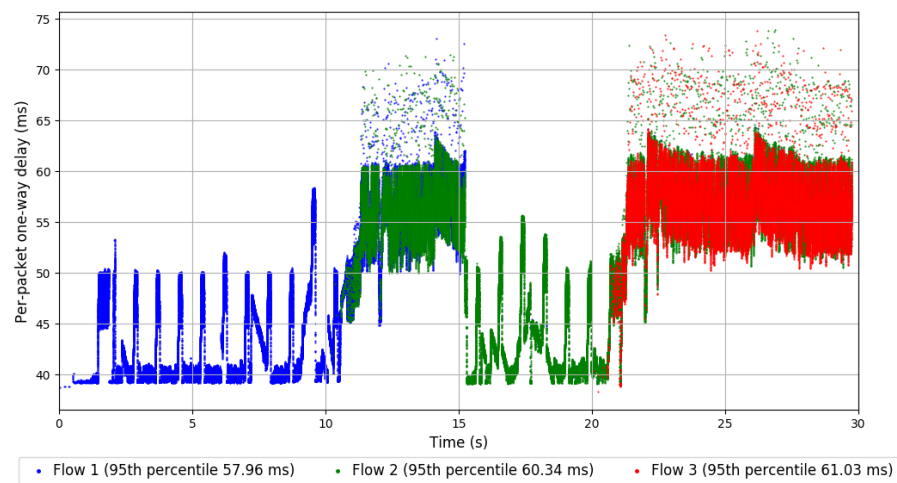
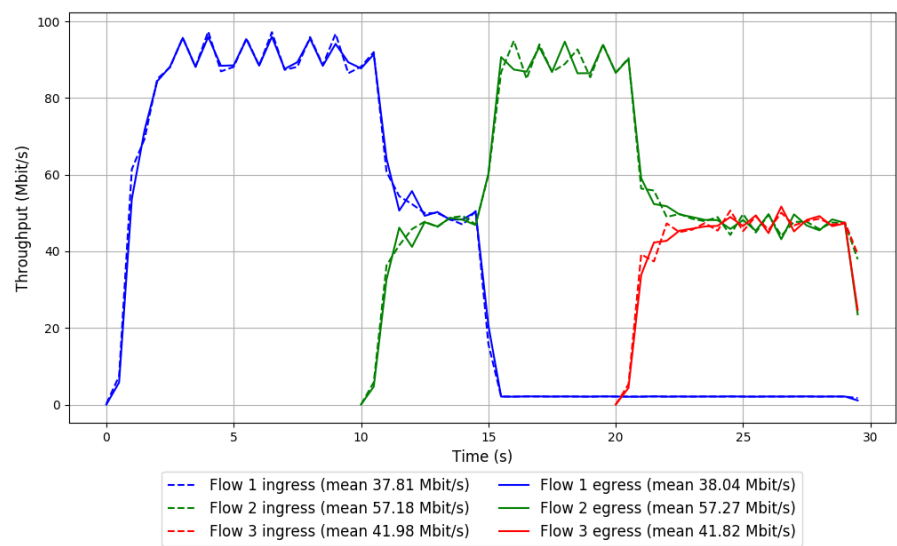


Run 1: Statistics of FillP

Start at: 2018-04-24 17:01:28  
End at: 2018-04-24 17:01:58  
Local clock offset: -5.317 ms  
Remote clock offset: -9.276 ms

# Below is generated by plot.py at 2018-04-25 00:55:31  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 89.64 Mbit/s  
95th percentile per-packet one-way delay: 60.009 ms  
Loss rate: 0.74%  
-- Flow 1:  
Average throughput: 38.04 Mbit/s  
95th percentile per-packet one-way delay: 57.963 ms  
Loss rate: 0.04%  
-- Flow 2:  
Average throughput: 57.27 Mbit/s  
95th percentile per-packet one-way delay: 60.337 ms  
Loss rate: 0.84%  
-- Flow 3:  
Average throughput: 41.82 Mbit/s  
95th percentile per-packet one-way delay: 61.026 ms  
Loss rate: 2.41%

Run 1: Report of FillP — Data Link

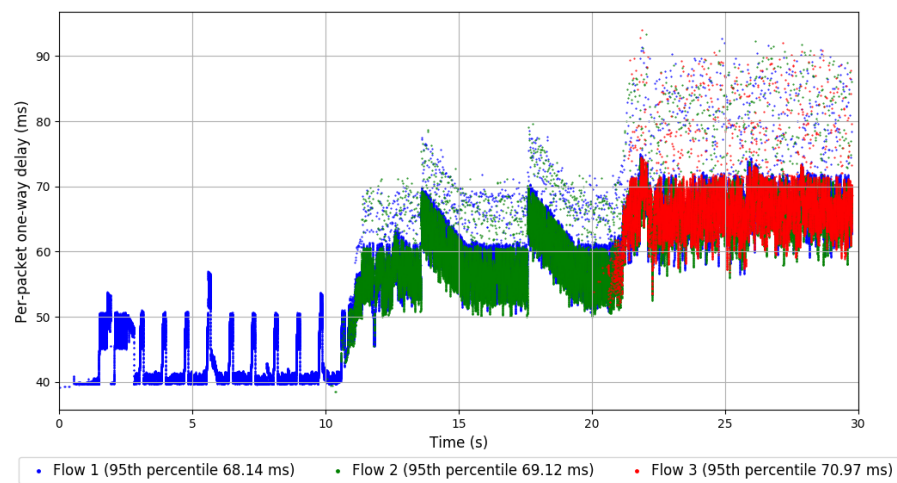
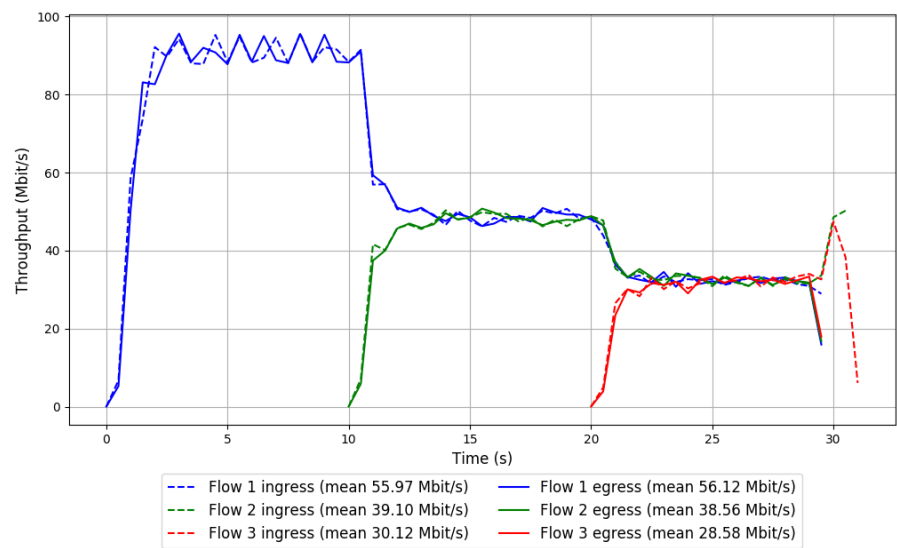


Run 2: Statistics of FillP

Start at: 2018-04-24 17:24:20  
End at: 2018-04-24 17:24:50  
Local clock offset: -0.825 ms  
Remote clock offset: -6.499 ms

# Below is generated by plot.py at 2018-04-25 00:55:31  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 90.96 Mbit/s  
95th percentile per-packet one-way delay: 69.156 ms  
Loss rate: 4.38%  
-- Flow 1:  
Average throughput: 56.12 Mbit/s  
95th percentile per-packet one-way delay: 68.142 ms  
Loss rate: 0.49%  
-- Flow 2:  
Average throughput: 38.56 Mbit/s  
95th percentile per-packet one-way delay: 69.124 ms  
Loss rate: 7.28%  
-- Flow 3:  
Average throughput: 28.58 Mbit/s  
95th percentile per-packet one-way delay: 70.973 ms  
Loss rate: 16.85%

Run 2: Report of FillP — Data Link

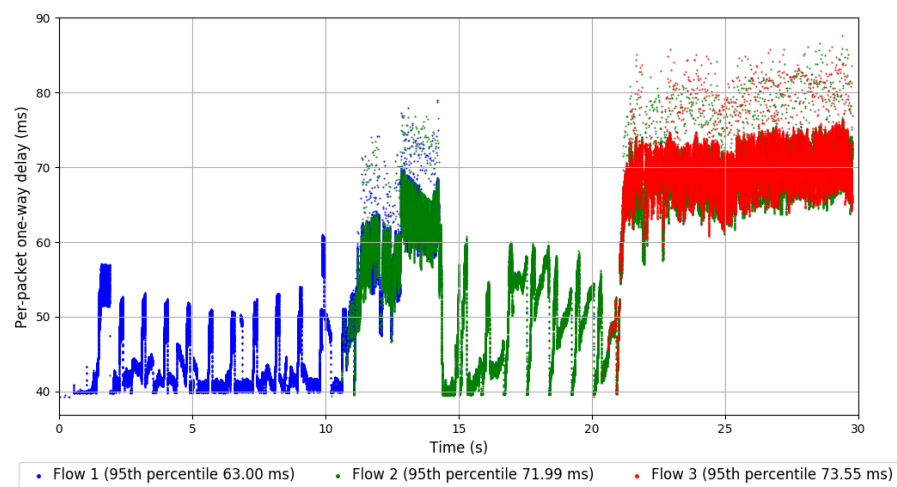
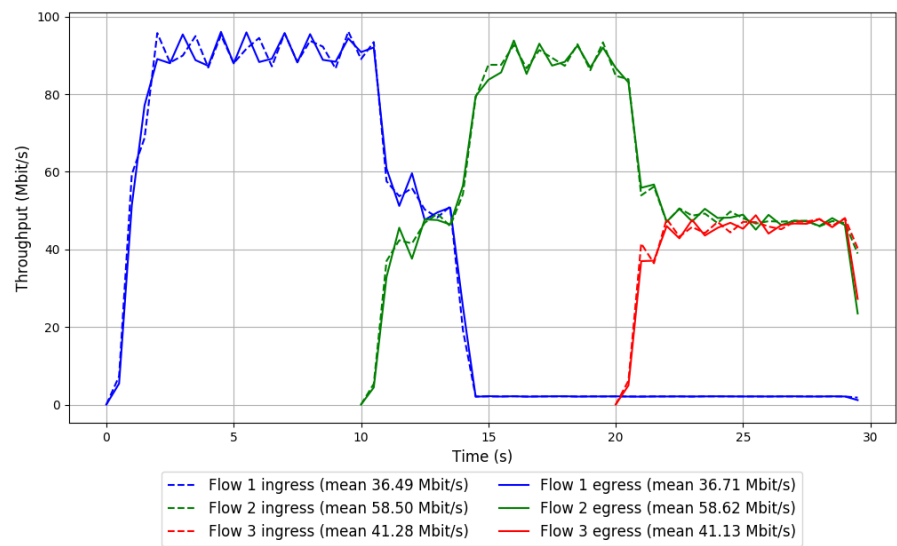


Run 3: Statistics of FillP

Start at: 2018-04-24 17:47:25  
End at: 2018-04-24 17:47:55  
Local clock offset: -4.127 ms  
Remote clock offset: -2.207 ms

# Below is generated by plot.py at 2018-04-25 00:55:31  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 88.95 Mbit/s  
95th percentile per-packet one-way delay: 71.835 ms  
Loss rate: 0.81%  
-- Flow 1:  
Average throughput: 36.71 Mbit/s  
95th percentile per-packet one-way delay: 62.998 ms  
Loss rate: 0.04%  
-- Flow 2:  
Average throughput: 58.62 Mbit/s  
95th percentile per-packet one-way delay: 71.988 ms  
Loss rate: 0.94%  
-- Flow 3:  
Average throughput: 41.13 Mbit/s  
95th percentile per-packet one-way delay: 73.552 ms  
Loss rate: 2.48%

Run 3: Report of FillP — Data Link

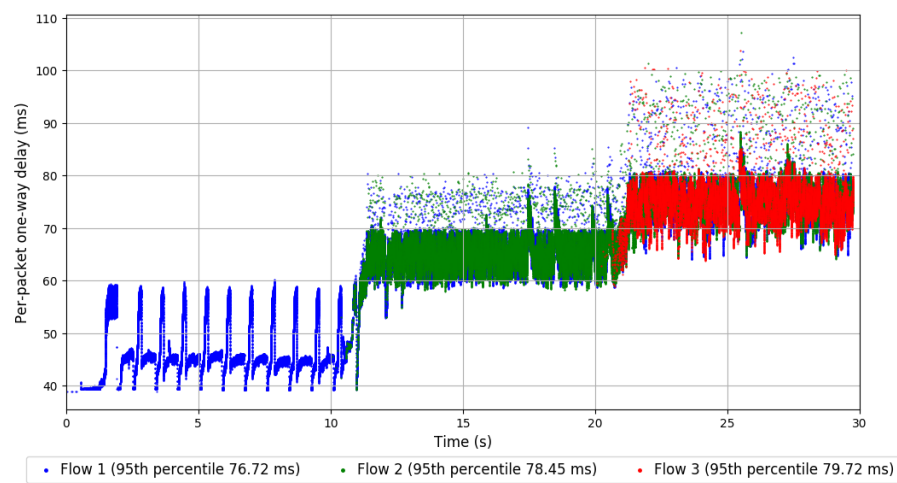
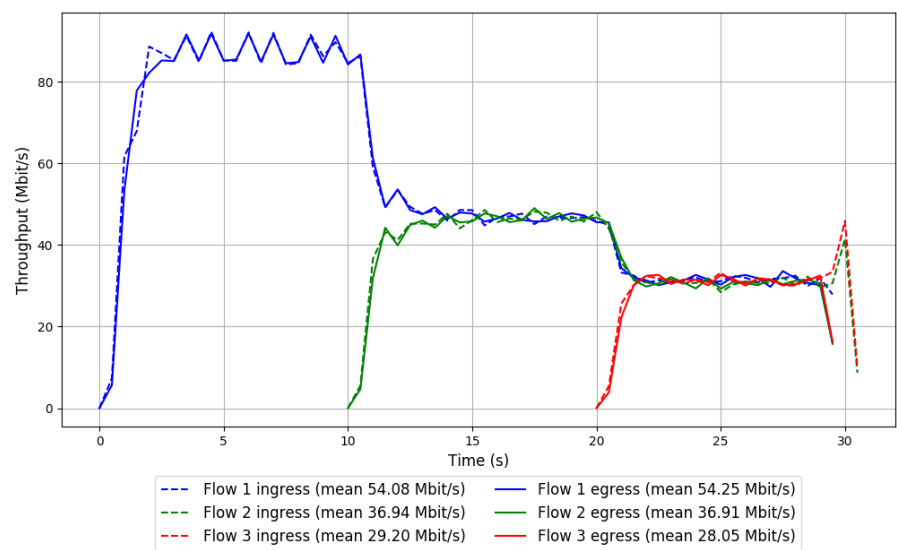


Run 4: Statistics of FillP

Start at: 2018-04-24 18:10:18  
End at: 2018-04-24 18:10:48  
Local clock offset: -5.679 ms  
Remote clock offset: -1.391 ms

# Below is generated by plot.py at 2018-04-25 00:55:31  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 87.82 Mbit/s  
95th percentile per-packet one-way delay: 78.040 ms  
Loss rate: 3.04%  
-- Flow 1:  
Average throughput: 54.25 Mbit/s  
95th percentile per-packet one-way delay: 76.717 ms  
Loss rate: 0.52%  
-- Flow 2:  
Average throughput: 36.91 Mbit/s  
95th percentile per-packet one-way delay: 78.452 ms  
Loss rate: 4.57%  
-- Flow 3:  
Average throughput: 28.05 Mbit/s  
95th percentile per-packet one-way delay: 79.722 ms  
Loss rate: 12.44%

Run 4: Report of FillP — Data Link



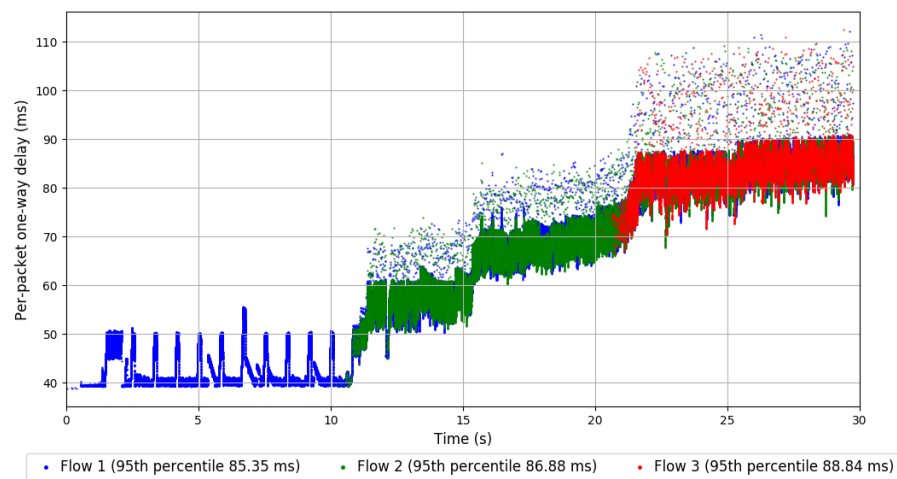
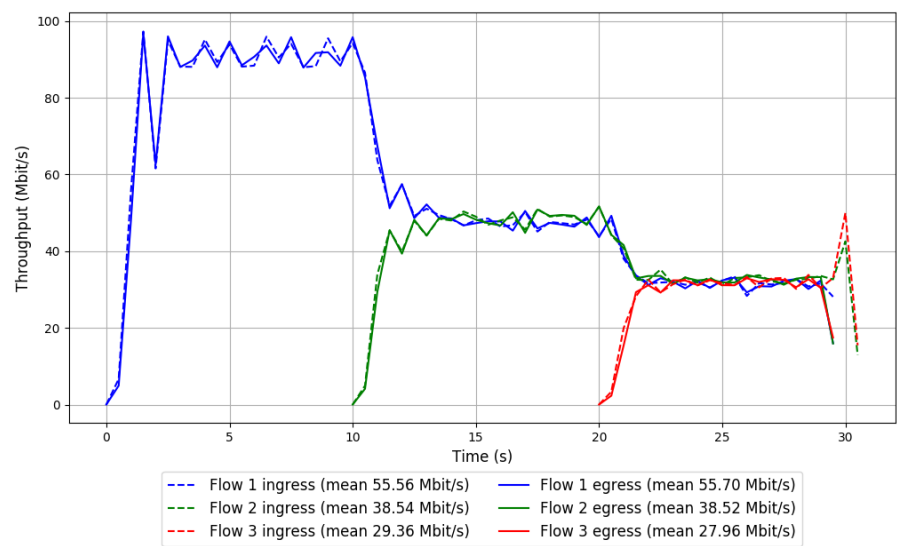


Run 5: Statistics of FillP

Start at: 2018-04-24 18:33:12  
End at: 2018-04-24 18:33:42  
Local clock offset: -0.716 ms  
Remote clock offset: -1.468 ms

# Below is generated by plot.py at 2018-04-25 00:55:33  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 90.30 Mbit/s  
95th percentile per-packet one-way delay: 86.661 ms  
Loss rate: 3.28%  
-- Flow 1:  
Average throughput: 55.70 Mbit/s  
95th percentile per-packet one-way delay: 85.349 ms  
Loss rate: 0.53%  
-- Flow 2:  
Average throughput: 38.52 Mbit/s  
95th percentile per-packet one-way delay: 86.876 ms  
Loss rate: 4.87%  
-- Flow 3:  
Average throughput: 27.96 Mbit/s  
95th percentile per-packet one-way delay: 88.845 ms  
Loss rate: 13.86%

Run 5: Report of FillP — Data Link

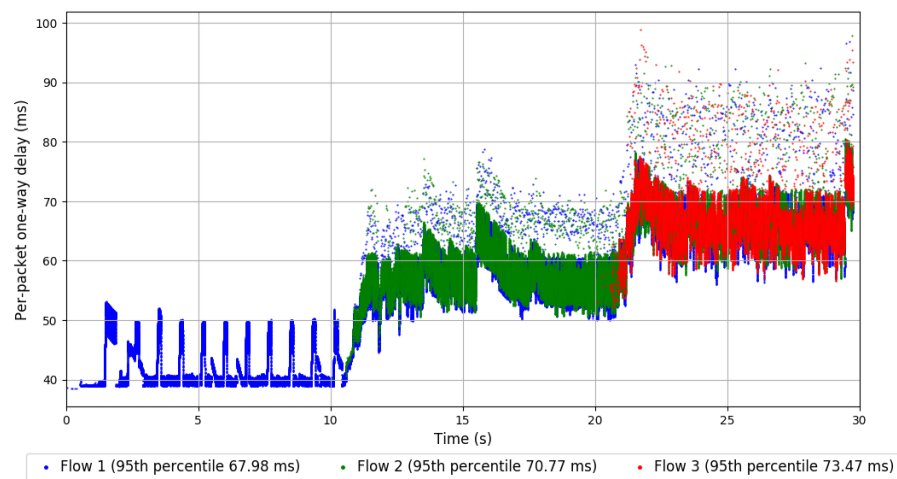
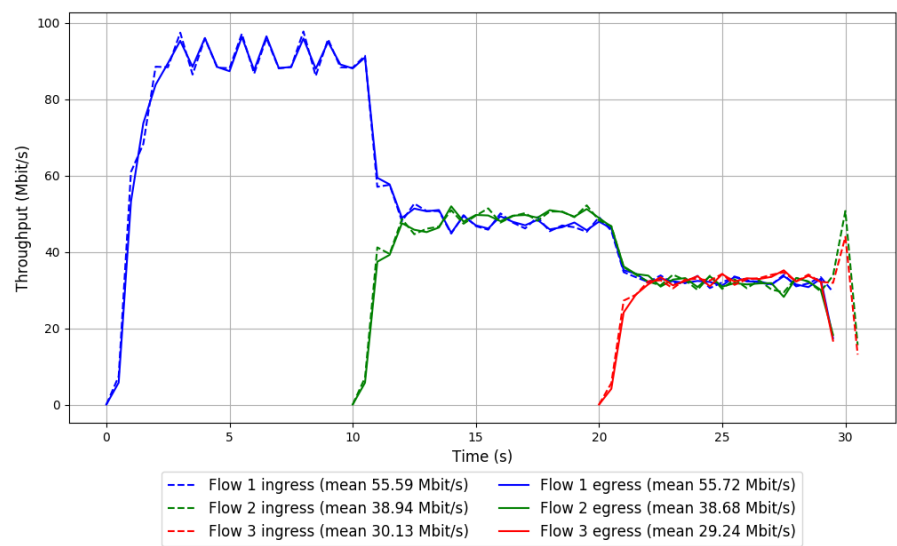


Run 6: Statistics of FillP

Start at: 2018-04-24 18:56:04  
End at: 2018-04-24 18:56:34  
Local clock offset: 2.055 ms  
Remote clock offset: -1.512 ms

# Below is generated by plot.py at 2018-04-25 00:55:50  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 90.88 Mbit/s  
95th percentile per-packet one-way delay: 70.128 ms  
Loss rate: 3.22%  
-- Flow 1:  
Average throughput: 55.72 Mbit/s  
95th percentile per-packet one-way delay: 67.978 ms  
Loss rate: 0.53%  
-- Flow 2:  
Average throughput: 38.68 Mbit/s  
95th percentile per-packet one-way delay: 70.765 ms  
Loss rate: 5.31%  
-- Flow 3:  
Average throughput: 29.24 Mbit/s  
95th percentile per-packet one-way delay: 73.467 ms  
Loss rate: 11.93%

Run 6: Report of FillP — Data Link

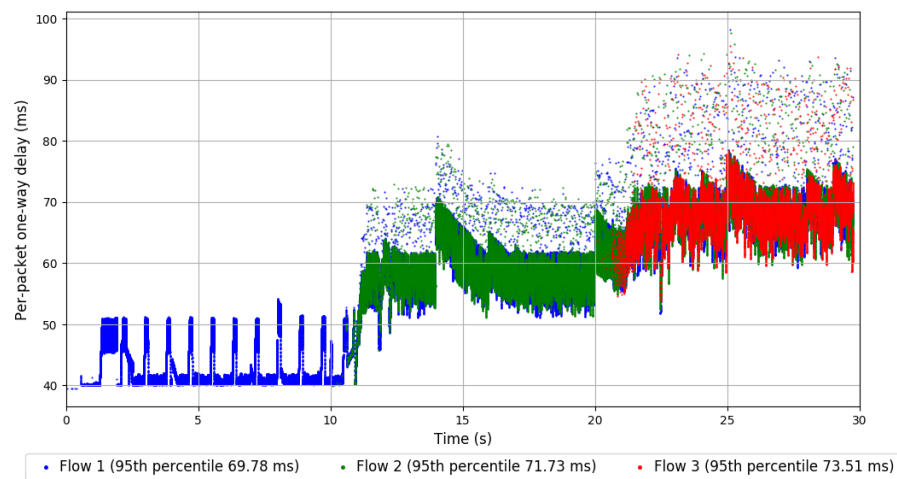
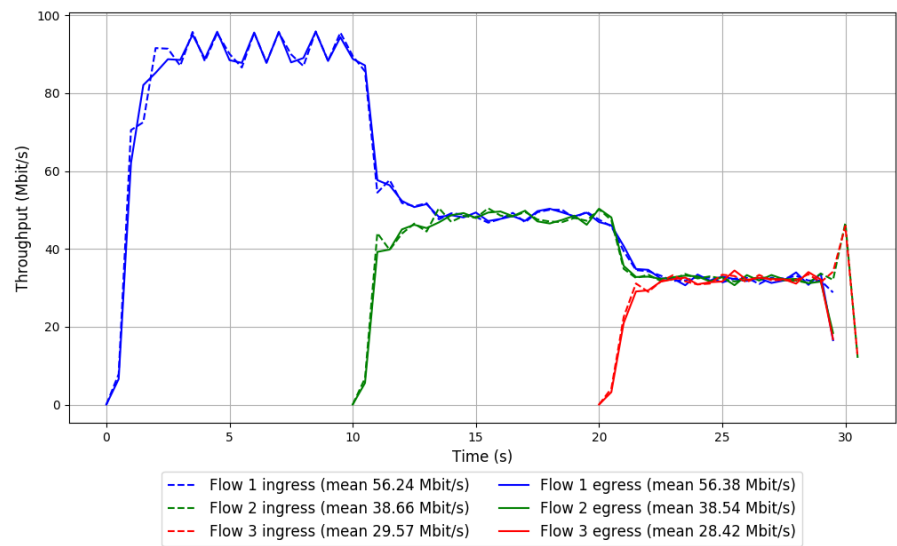


Run 7: Statistics of FillP

Start at: 2018-04-24 19:18:58  
End at: 2018-04-24 19:19:28  
Local clock offset: 2.537 ms  
Remote clock offset: -1.241 ms

# Below is generated by plot.py at 2018-04-25 00:56:48  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 91.13 Mbit/s  
95th percentile per-packet one-way delay: 71.262 ms  
Loss rate: 3.09%  
-- Flow 1:  
Average throughput: 56.38 Mbit/s  
95th percentile per-packet one-way delay: 69.782 ms  
Loss rate: 0.48%  
-- Flow 2:  
Average throughput: 38.54 Mbit/s  
95th percentile per-packet one-way delay: 71.735 ms  
Loss rate: 4.89%  
-- Flow 3:  
Average throughput: 28.42 Mbit/s  
95th percentile per-packet one-way delay: 73.507 ms  
Loss rate: 12.53%

Run 7: Report of FillP — Data Link

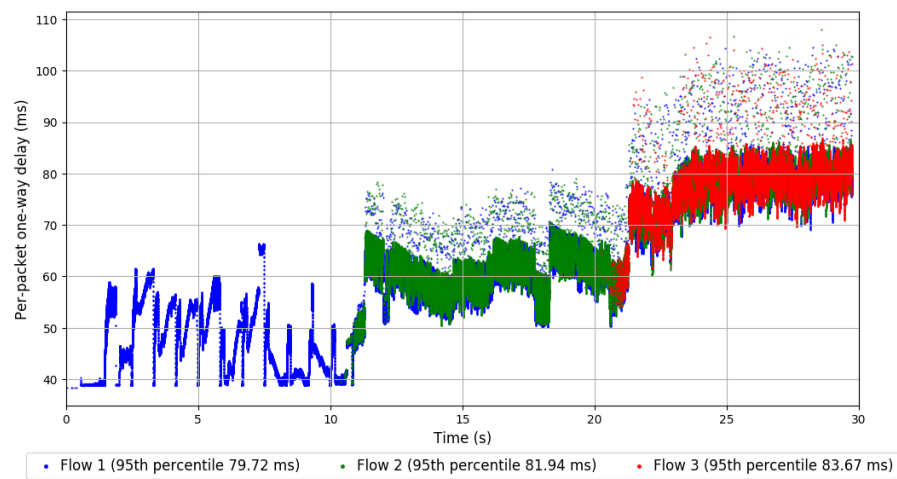
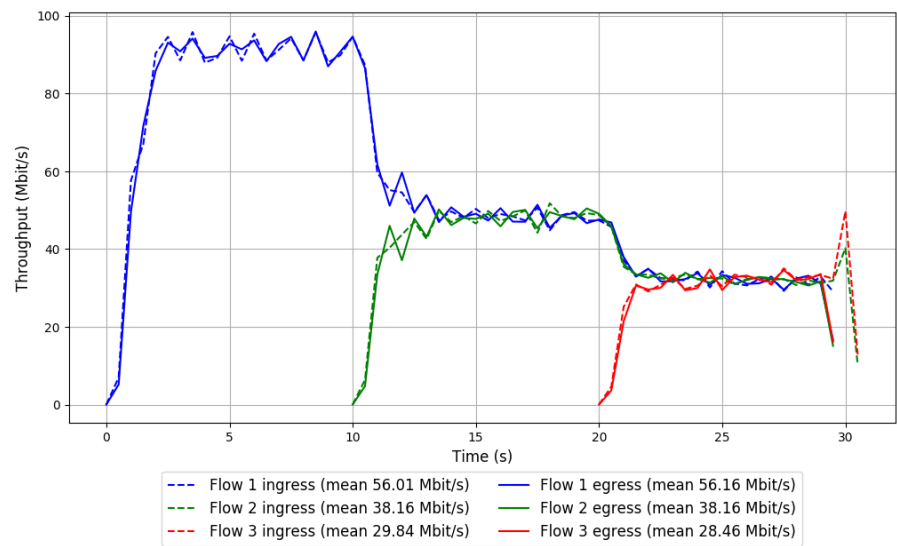


Run 8: Statistics of FillP

Start at: 2018-04-24 19:41:47  
End at: 2018-04-24 19:42:17  
Local clock offset: -2.798 ms  
Remote clock offset: -0.865 ms

# Below is generated by plot.py at 2018-04-25 00:56:54  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 90.71 Mbit/s  
95th percentile per-packet one-way delay: 81.475 ms  
Loss rate: 3.14%  
-- Flow 1:  
Average throughput: 56.16 Mbit/s  
95th percentile per-packet one-way delay: 79.717 ms  
Loss rate: 0.52%  
-- Flow 2:  
Average throughput: 38.16 Mbit/s  
95th percentile per-packet one-way delay: 81.942 ms  
Loss rate: 4.61%  
-- Flow 3:  
Average throughput: 28.46 Mbit/s  
95th percentile per-packet one-way delay: 83.668 ms  
Loss rate: 13.33%

Run 8: Report of FillP — Data Link



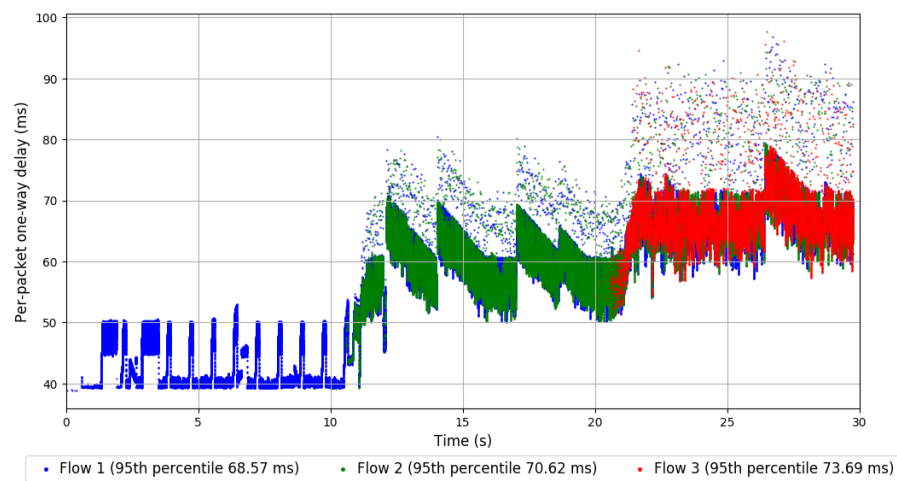
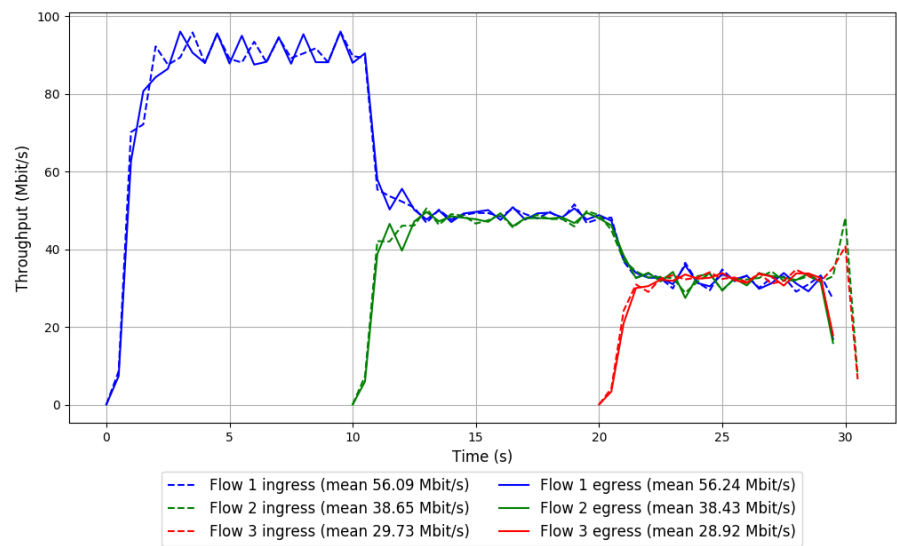


Run 9: Statistics of FillP

Start at: 2018-04-24 20:04:39  
End at: 2018-04-24 20:05:09  
Local clock offset: 2.938 ms  
Remote clock offset: -0.762 ms

# Below is generated by plot.py at 2018-04-25 00:57:00  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 91.14 Mbit/s  
95th percentile per-packet one-way delay: 70.255 ms  
Loss rate: 2.87%  
-- Flow 1:  
Average throughput: 56.24 Mbit/s  
95th percentile per-packet one-way delay: 68.570 ms  
Loss rate: 0.46%  
-- Flow 2:  
Average throughput: 38.43 Mbit/s  
95th percentile per-packet one-way delay: 70.618 ms  
Loss rate: 4.79%  
-- Flow 3:  
Average throughput: 28.92 Mbit/s  
95th percentile per-packet one-way delay: 73.694 ms  
Loss rate: 10.92%

Run 9: Report of FillP — Data Link

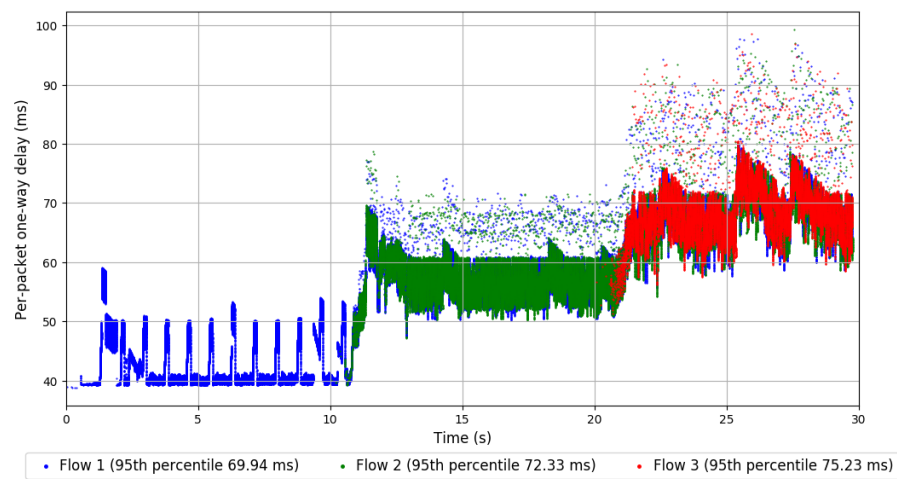
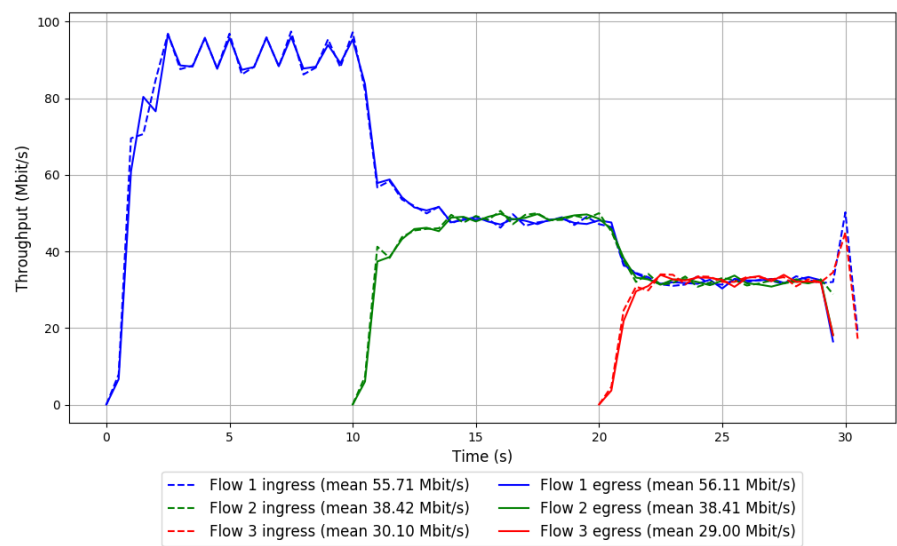


Run 10: Statistics of FillP

Start at: 2018-04-24 20:27:48  
End at: 2018-04-24 20:28:18  
Local clock offset: 5.321 ms  
Remote clock offset: -0.607 ms

# Below is generated by plot.py at 2018-04-25 00:57:01  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 91.01 Mbit/s  
95th percentile per-packet one-way delay: 72.006 ms  
Loss rate: 3.33%  
-- Flow 1:  
Average throughput: 56.11 Mbit/s  
95th percentile per-packet one-way delay: 69.938 ms  
Loss rate: 2.57%  
-- Flow 2:  
Average throughput: 38.41 Mbit/s  
95th percentile per-packet one-way delay: 72.326 ms  
Loss rate: 1.00%  
-- Flow 3:  
Average throughput: 29.00 Mbit/s  
95th percentile per-packet one-way delay: 75.235 ms  
Loss rate: 12.90%

Run 10: Report of FillP — Data Link

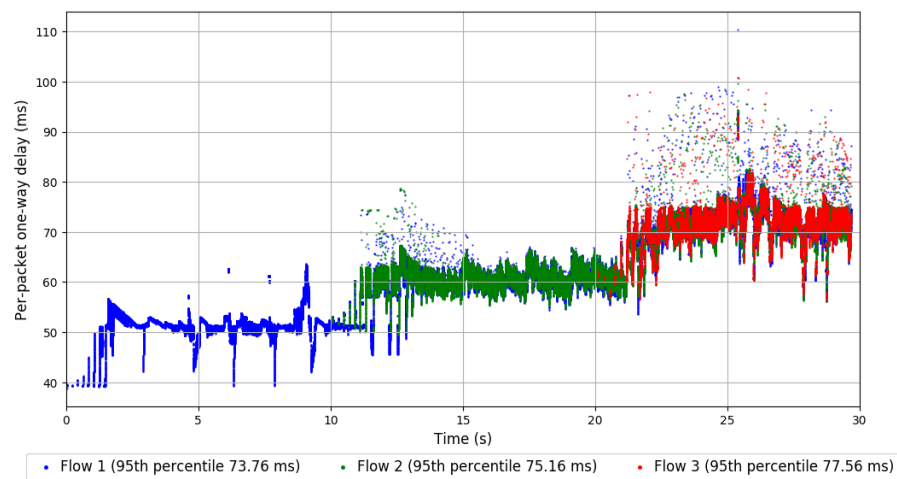
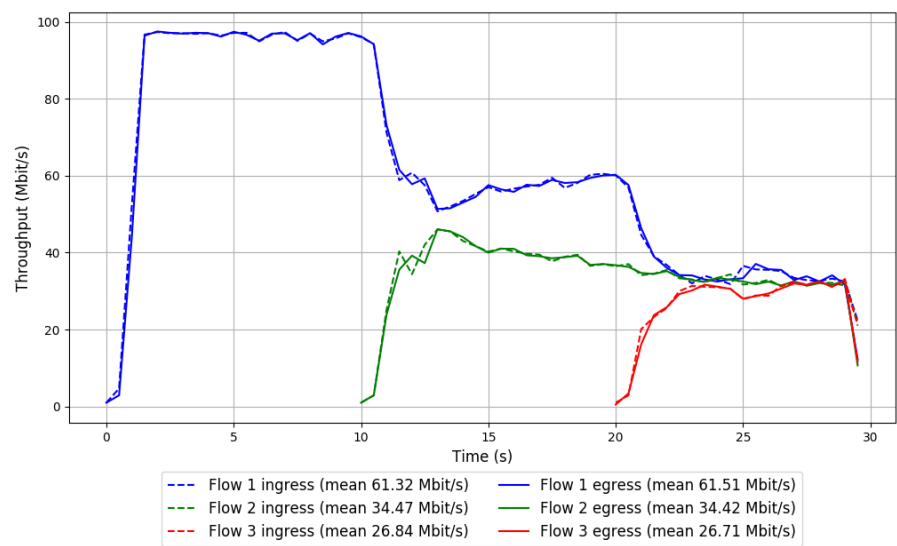


Run 1: Statistics of Indigo-1-32

Start at: 2018-04-24 17:08:01  
End at: 2018-04-24 17:08:31  
Local clock offset: -2.685 ms  
Remote clock offset: -6.511 ms

# Below is generated by plot.py at 2018-04-25 00:57:01  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 92.89 Mbit/s  
95th percentile per-packet one-way delay: 74.665 ms  
Loss rate: 0.83%  
-- Flow 1:  
Average throughput: 61.51 Mbit/s  
95th percentile per-packet one-way delay: 73.757 ms  
Loss rate: 0.41%  
-- Flow 2:  
Average throughput: 34.42 Mbit/s  
95th percentile per-packet one-way delay: 75.162 ms  
Loss rate: 1.17%  
-- Flow 3:  
Average throughput: 26.71 Mbit/s  
95th percentile per-packet one-way delay: 77.556 ms  
Loss rate: 2.86%

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

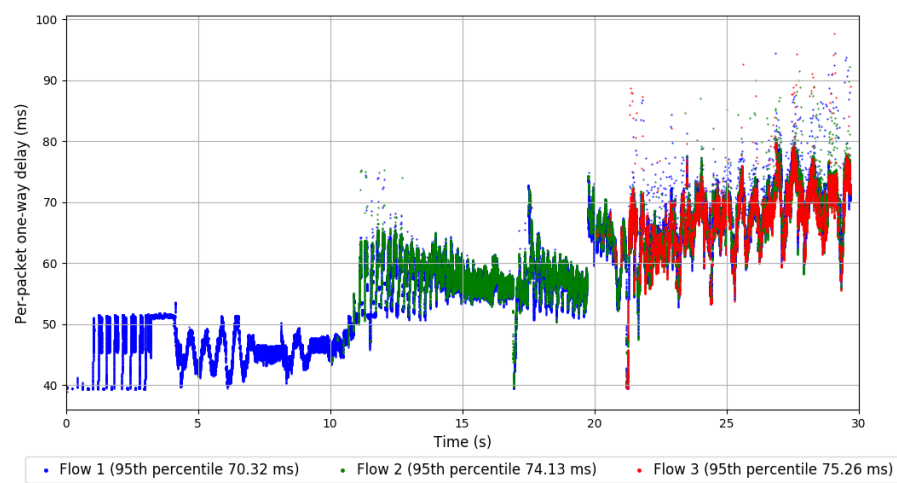
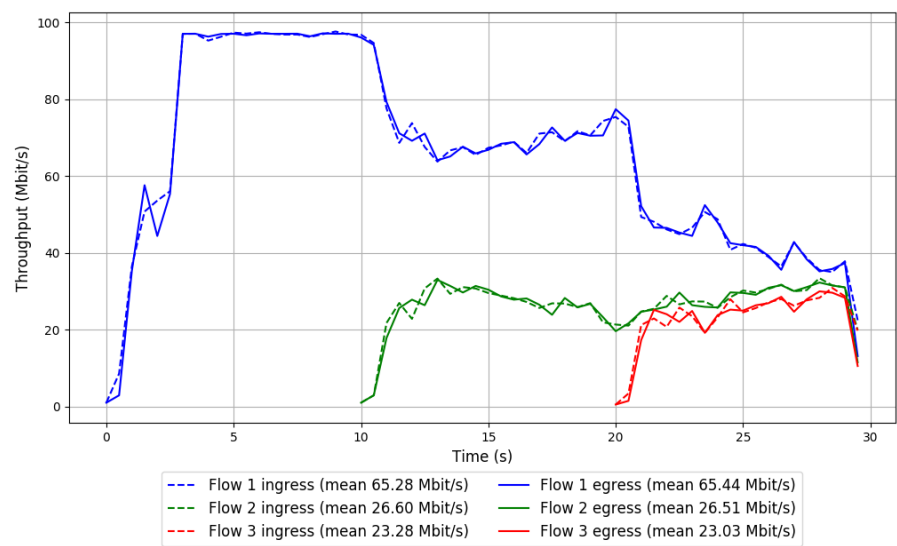


Run 2: Statistics of Indigo-1-32

Start at: 2018-04-24 17:30:54  
End at: 2018-04-24 17:31:24  
Local clock offset: -0.709 ms  
Remote clock offset: -5.816 ms

# Below is generated by plot.py at 2018-04-25 00:57:01  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 90.39 Mbit/s  
95th percentile per-packet one-way delay: 72.385 ms  
Loss rate: 0.84%  
-- Flow 1:  
Average throughput: 65.44 Mbit/s  
95th percentile per-packet one-way delay: 70.322 ms  
Loss rate: 0.46%  
-- Flow 2:  
Average throughput: 26.51 Mbit/s  
95th percentile per-packet one-way delay: 74.131 ms  
Loss rate: 1.33%  
-- Flow 3:  
Average throughput: 23.03 Mbit/s  
95th percentile per-packet one-way delay: 75.260 ms  
Loss rate: 3.01%

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



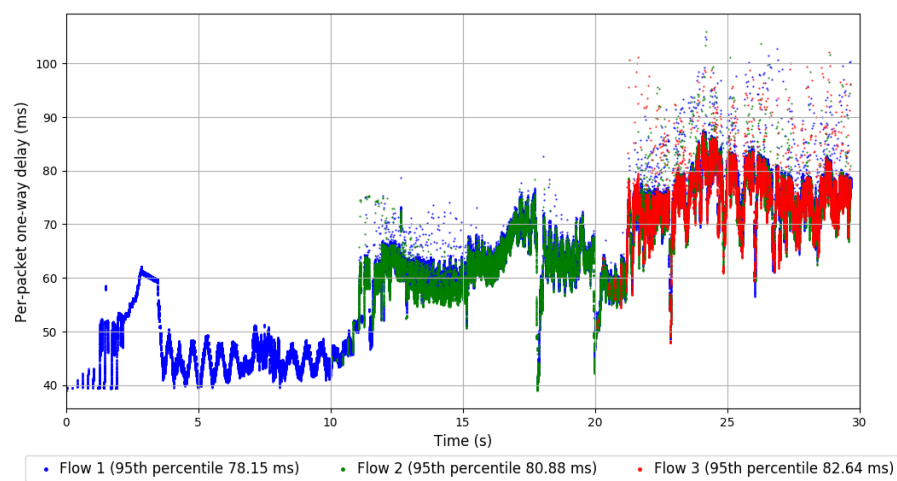
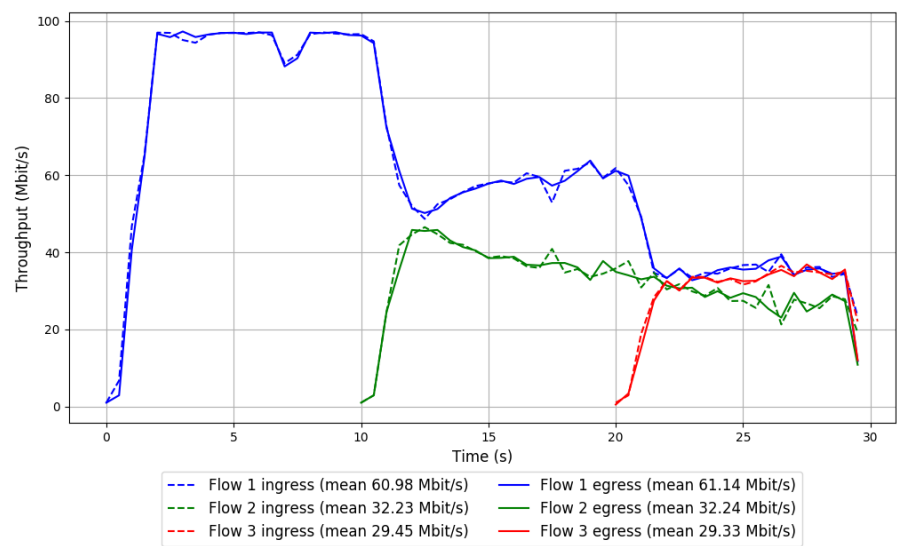


Run 3: Statistics of Indigo-1-32

Start at: 2018-04-24 17:53:58  
End at: 2018-04-24 17:54:28  
Local clock offset: -5.144 ms  
Remote clock offset: -2.087 ms

# Below is generated by plot.py at 2018-04-25 00:57:01  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 91.96 Mbit/s  
95th percentile per-packet one-way delay: 80.104 ms  
Loss rate: 0.81%  
-- Flow 1:  
Average throughput: 61.14 Mbit/s  
95th percentile per-packet one-way delay: 78.154 ms  
Loss rate: 0.45%  
-- Flow 2:  
Average throughput: 32.24 Mbit/s  
95th percentile per-packet one-way delay: 80.877 ms  
Loss rate: 0.99%  
-- Flow 3:  
Average throughput: 29.33 Mbit/s  
95th percentile per-packet one-way delay: 82.640 ms  
Loss rate: 2.64%

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

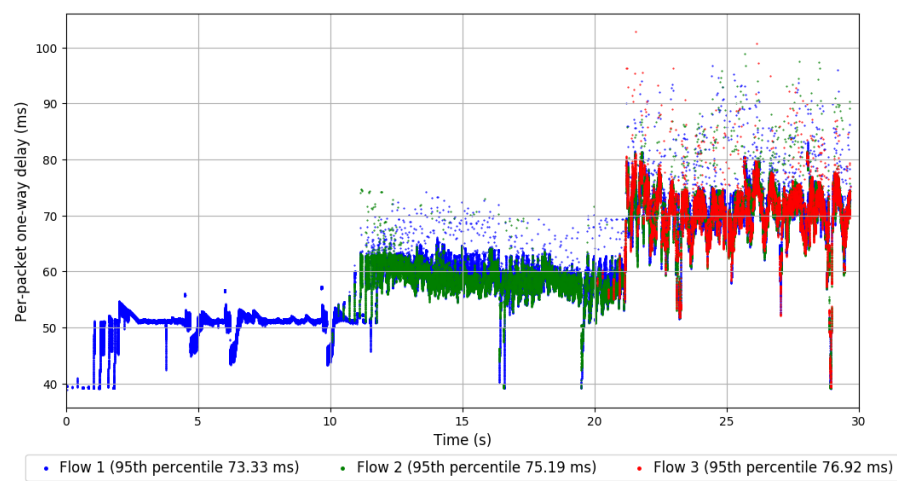
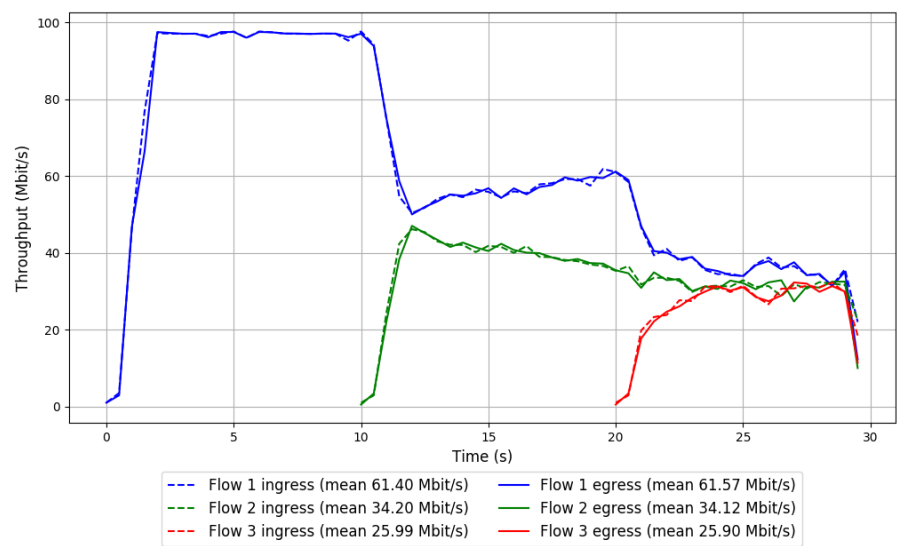


Run 4: Statistics of Indigo-1-32

Start at: 2018-04-24 18:16:52  
End at: 2018-04-24 18:17:22  
Local clock offset: -3.006 ms  
Remote clock offset: -1.417 ms

# Below is generated by plot.py at 2018-04-25 00:57:15  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 92.50 Mbit/s  
95th percentile per-packet one-way delay: 74.499 ms  
Loss rate: 0.81%  
-- Flow 1:  
Average throughput: 61.57 Mbit/s  
95th percentile per-packet one-way delay: 73.332 ms  
Loss rate: 0.43%  
-- Flow 2:  
Average throughput: 34.12 Mbit/s  
95th percentile per-packet one-way delay: 75.185 ms  
Loss rate: 1.22%  
-- Flow 3:  
Average throughput: 25.90 Mbit/s  
95th percentile per-packet one-way delay: 76.925 ms  
Loss rate: 2.45%

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

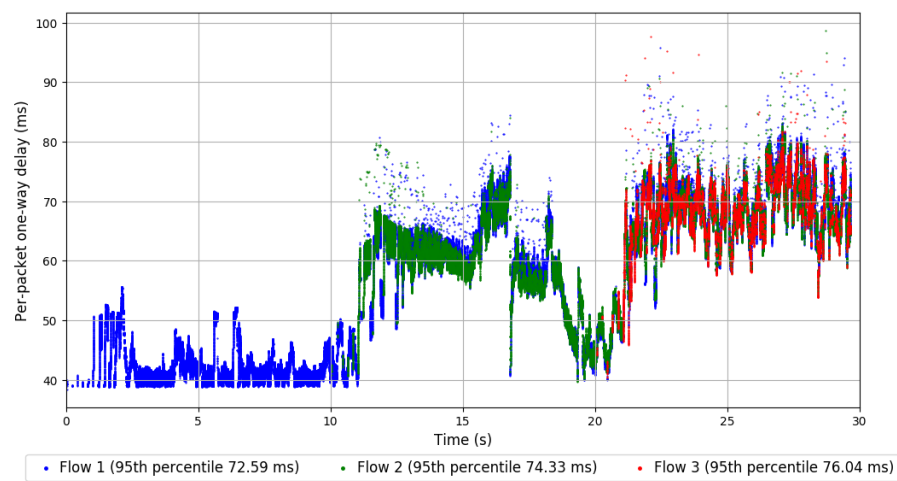
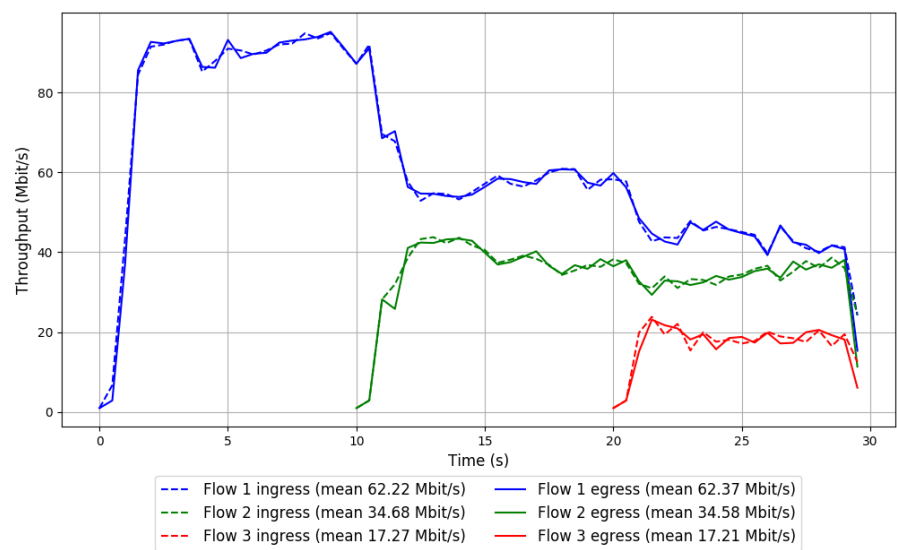


Run 5: Statistics of Indigo-1-32

Start at: 2018-04-24 18:39:46  
End at: 2018-04-24 18:40:16  
Local clock offset: -0.436 ms  
Remote clock offset: -1.399 ms

# Below is generated by plot.py at 2018-04-25 00:58:16  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 90.83 Mbit/s  
95th percentile per-packet one-way delay: 73.650 ms  
Loss rate: 0.76%  
-- Flow 1:  
Average throughput: 62.37 Mbit/s  
95th percentile per-packet one-way delay: 72.592 ms  
Loss rate: 0.41%  
-- Flow 2:  
Average throughput: 34.58 Mbit/s  
95th percentile per-packet one-way delay: 74.333 ms  
Loss rate: 1.28%  
-- Flow 3:  
Average throughput: 17.21 Mbit/s  
95th percentile per-packet one-way delay: 76.036 ms  
Loss rate: 2.36%

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

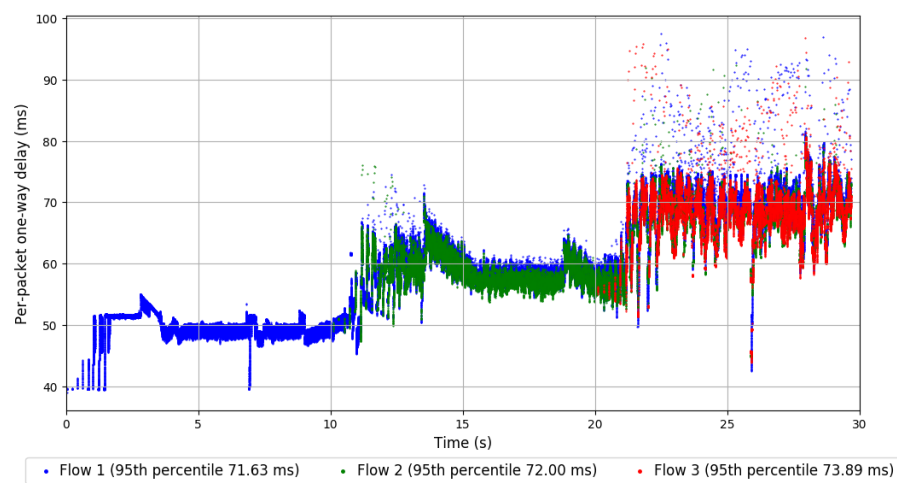
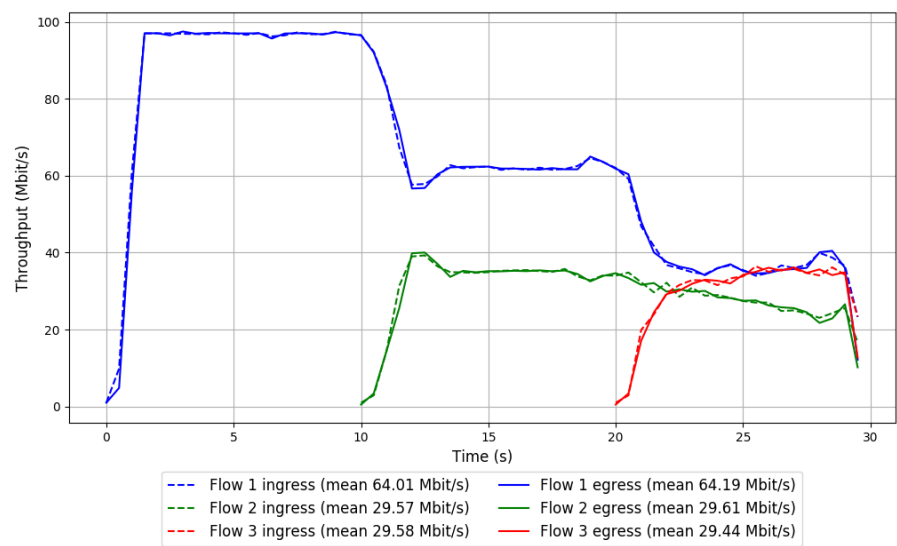


Run 6: Statistics of Indigo-1-32

Start at: 2018-04-24 19:02:39  
End at: 2018-04-24 19:03:09  
Local clock offset: 2.591 ms  
Remote clock offset: -1.602 ms

# Below is generated by plot.py at 2018-04-25 00:58:25  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.23 Mbit/s  
95th percentile per-packet one-way delay: 72.141 ms  
Loss rate: 0.76%  
-- Flow 1:  
Average throughput: 64.19 Mbit/s  
95th percentile per-packet one-way delay: 71.626 ms  
Loss rate: 0.43%  
-- Flow 2:  
Average throughput: 29.61 Mbit/s  
95th percentile per-packet one-way delay: 71.998 ms  
Loss rate: 0.91%  
-- Flow 3:  
Average throughput: 29.44 Mbit/s  
95th percentile per-packet one-way delay: 73.893 ms  
Loss rate: 2.63%

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



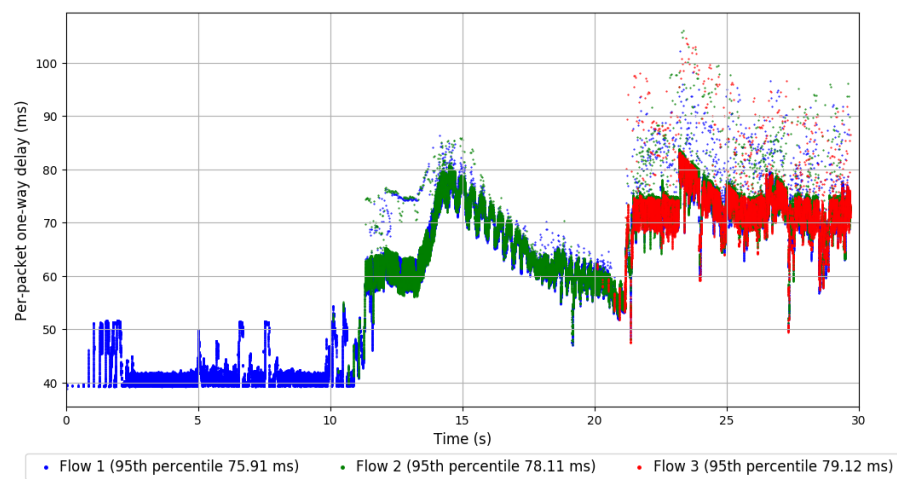
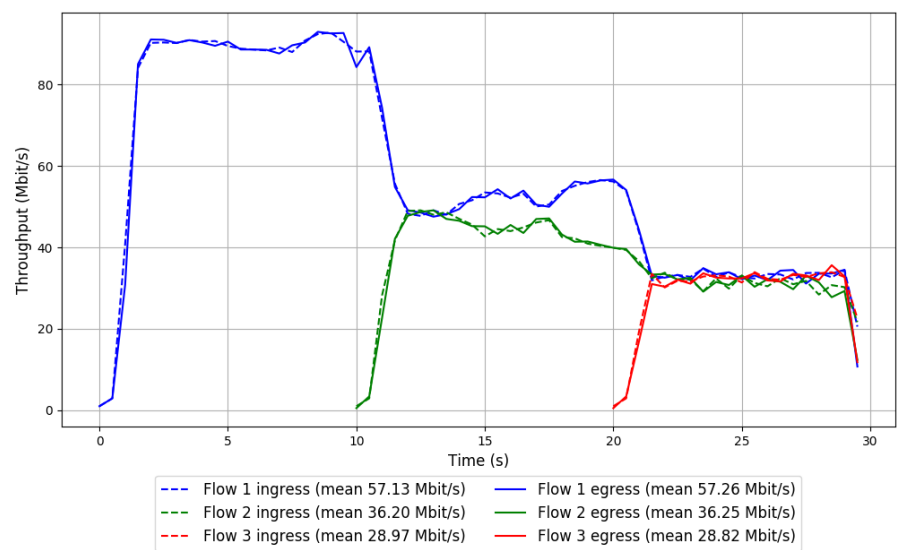


Run 7: Statistics of Indigo-1-32

Start at: 2018-04-24 19:25:31  
End at: 2018-04-24 19:26:01  
Local clock offset: -0.419 ms  
Remote clock offset: -1.067 ms

# Below is generated by plot.py at 2018-04-25 00:58:25  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 90.52 Mbit/s  
95th percentile per-packet one-way delay: 77.141 ms  
Loss rate: 0.82%  
-- Flow 1:  
Average throughput: 57.26 Mbit/s  
95th percentile per-packet one-way delay: 75.913 ms  
Loss rate: 0.42%  
-- Flow 2:  
Average throughput: 36.25 Mbit/s  
95th percentile per-packet one-way delay: 78.110 ms  
Loss rate: 1.03%  
-- Flow 3:  
Average throughput: 28.82 Mbit/s  
95th percentile per-packet one-way delay: 79.116 ms  
Loss rate: 2.67%

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

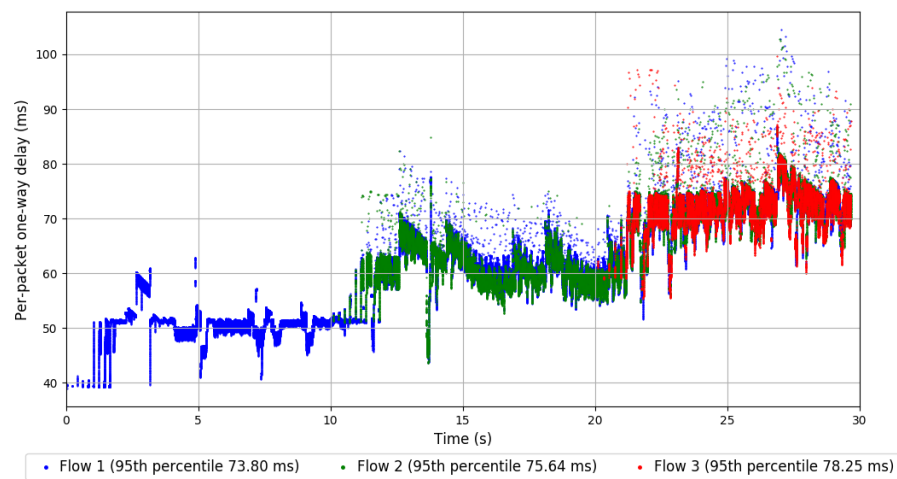
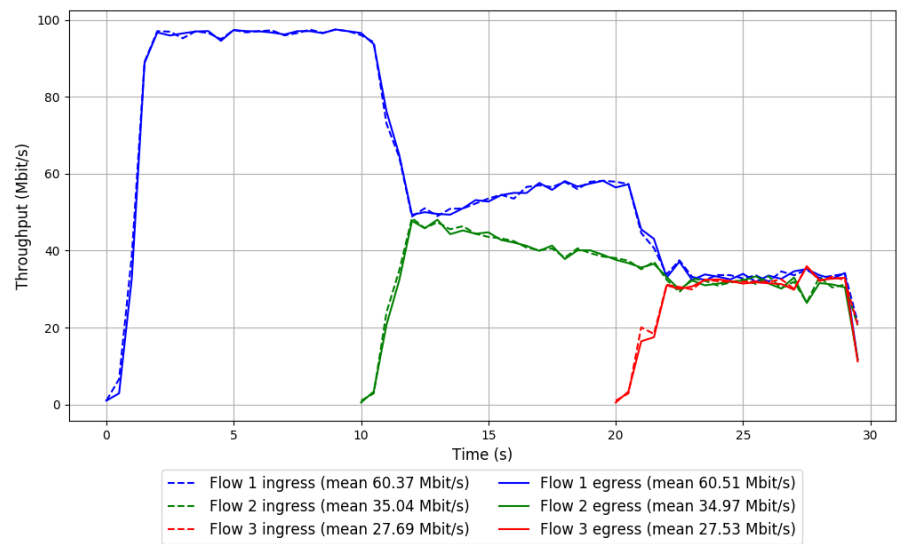


Run 8: Statistics of Indigo-1-32

Start at: 2018-04-24 19:48:21  
End at: 2018-04-24 19:48:51  
Local clock offset: -3.013 ms  
Remote clock offset: -0.829 ms

# Below is generated by plot.py at 2018-04-25 00:58:25  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 92.46 Mbit/s  
95th percentile per-packet one-way delay: 74.931 ms  
Loss rate: 0.89%  
-- Flow 1:  
Average throughput: 60.51 Mbit/s  
95th percentile per-packet one-way delay: 73.795 ms  
Loss rate: 0.47%  
-- Flow 2:  
Average throughput: 34.97 Mbit/s  
95th percentile per-packet one-way delay: 75.638 ms  
Loss rate: 1.23%  
-- Flow 3:  
Average throughput: 27.53 Mbit/s  
95th percentile per-packet one-way delay: 78.254 ms  
Loss rate: 2.81%

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

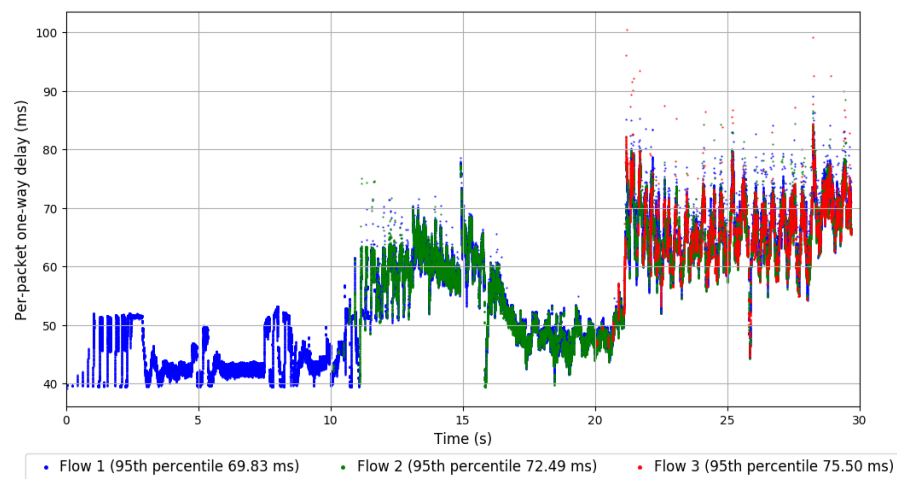
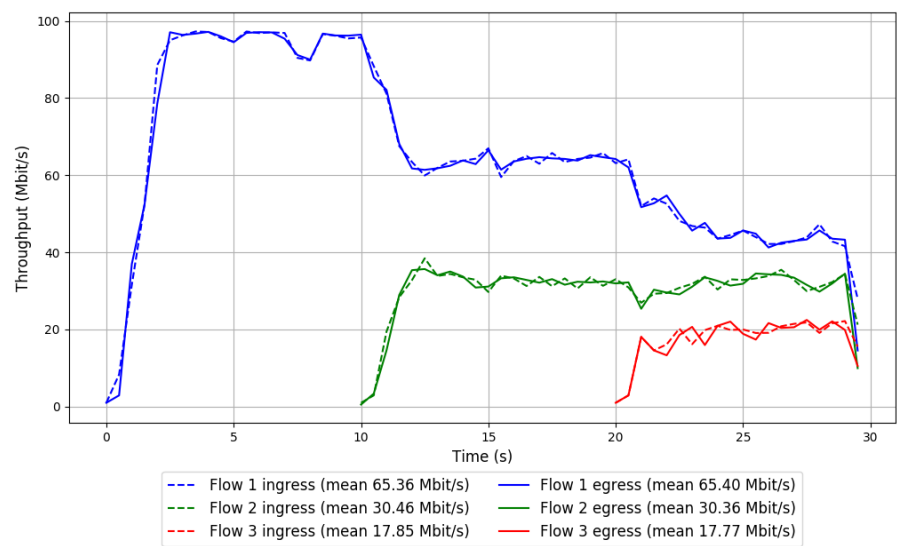


Run 9: Statistics of Indigo-1-32

Start at: 2018-04-24 20:11:13  
End at: 2018-04-24 20:11:43  
Local clock offset: 4.293 ms  
Remote clock offset: -0.677 ms

# Below is generated by plot.py at 2018-04-25 00:58:25  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 91.20 Mbit/s  
95th percentile per-packet one-way delay: 71.452 ms  
Loss rate: 0.86%  
-- Flow 1:  
Average throughput: 65.40 Mbit/s  
95th percentile per-packet one-way delay: 69.826 ms  
Loss rate: 0.57%  
-- Flow 2:  
Average throughput: 30.36 Mbit/s  
95th percentile per-packet one-way delay: 72.487 ms  
Loss rate: 1.33%  
-- Flow 3:  
Average throughput: 17.77 Mbit/s  
95th percentile per-packet one-way delay: 75.501 ms  
Loss rate: 2.47%

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

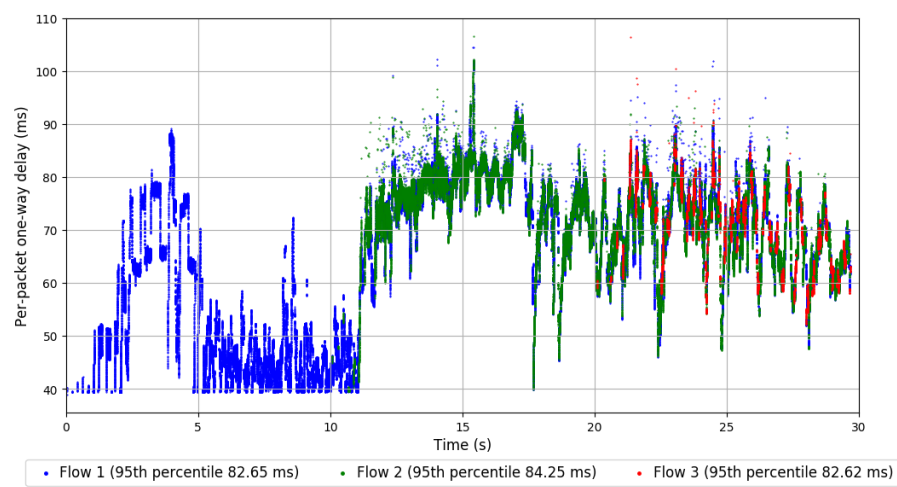
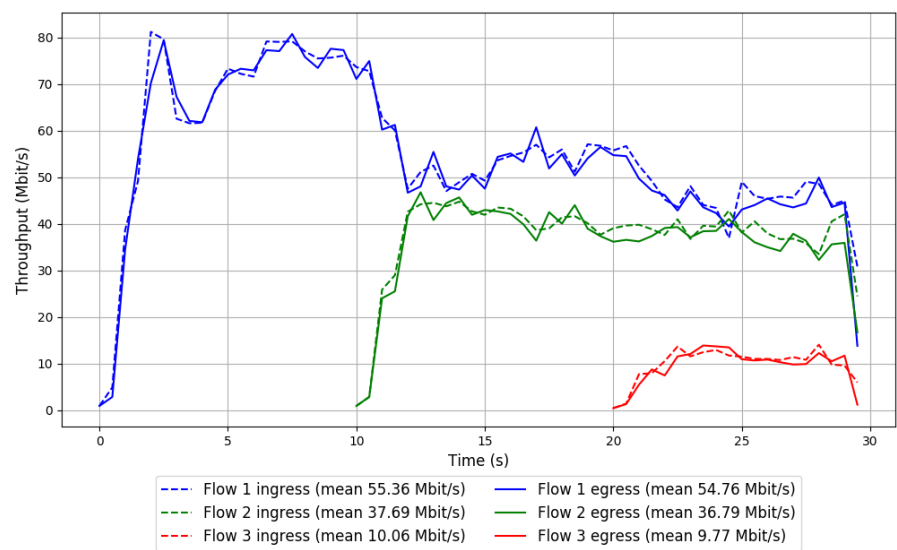


Run 10: Statistics of Indigo-1-32

Start at: 2018-04-24 20:34:21  
End at: 2018-04-24 20:34:51  
Local clock offset: 4.459 ms  
Remote clock offset: -0.546 ms

# Below is generated by plot.py at 2018-04-25 00:58:25  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 82.20 Mbit/s  
95th percentile per-packet one-way delay: 83.259 ms  
Loss rate: 2.41%  
-- Flow 1:  
Average throughput: 54.76 Mbit/s  
95th percentile per-packet one-way delay: 82.652 ms  
Loss rate: 1.78%  
-- Flow 2:  
Average throughput: 36.79 Mbit/s  
95th percentile per-packet one-way delay: 84.253 ms  
Loss rate: 3.46%  
-- Flow 3:  
Average throughput: 9.77 Mbit/s  
95th percentile per-packet one-way delay: 82.619 ms  
Loss rate: 5.08%

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



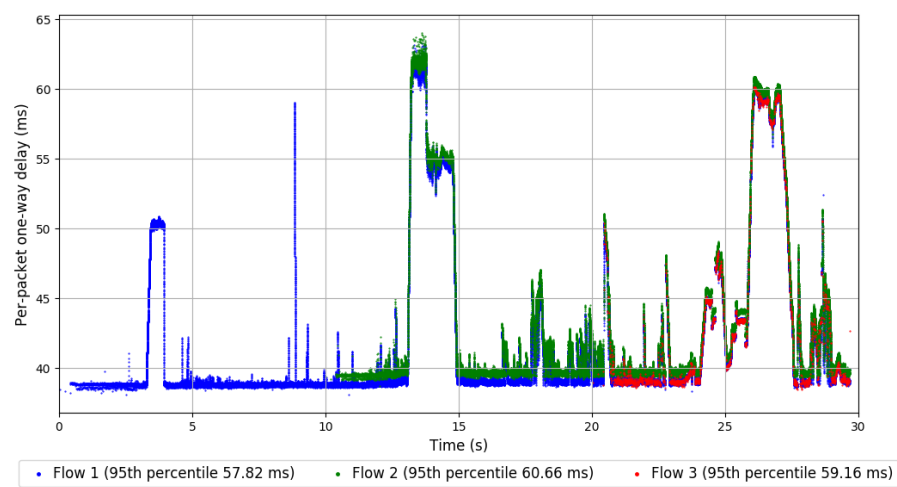
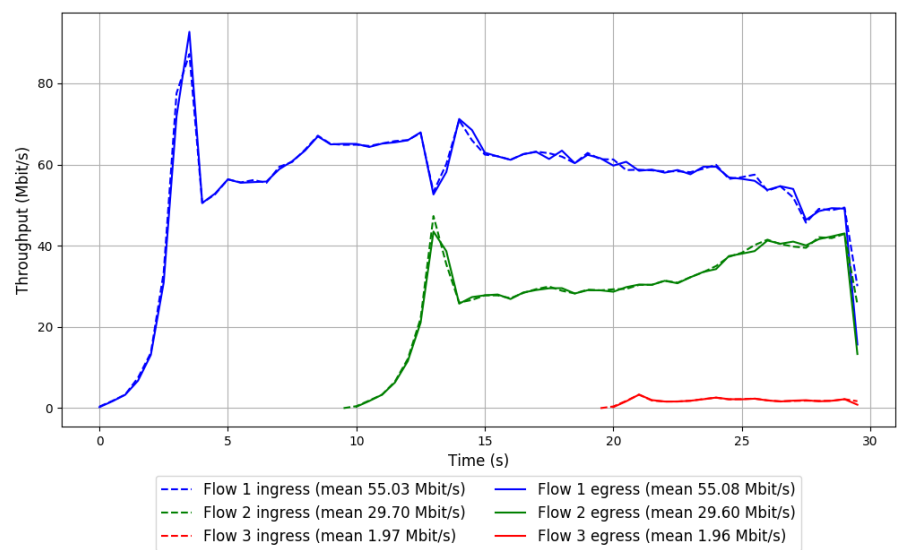


Run 1: Statistics of PCC-Vivace

Start at: 2018-04-24 17:17:25  
End at: 2018-04-24 17:17:55  
Local clock offset: -1.294 ms  
Remote clock offset: -5.943 ms

# Below is generated by plot.py at 2018-04-25 00:58:25  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 75.35 Mbit/s  
95th percentile per-packet one-way delay: 59.425 ms  
Loss rate: 0.77%  
-- Flow 1:  
Average throughput: 55.08 Mbit/s  
95th percentile per-packet one-way delay: 57.822 ms  
Loss rate: 0.55%  
-- Flow 2:  
Average throughput: 29.60 Mbit/s  
95th percentile per-packet one-way delay: 60.661 ms  
Loss rate: 1.30%  
-- Flow 3:  
Average throughput: 1.96 Mbit/s  
95th percentile per-packet one-way delay: 59.155 ms  
Loss rate: 2.65%

Run 1: Report of PCC-Vivace — Data Link

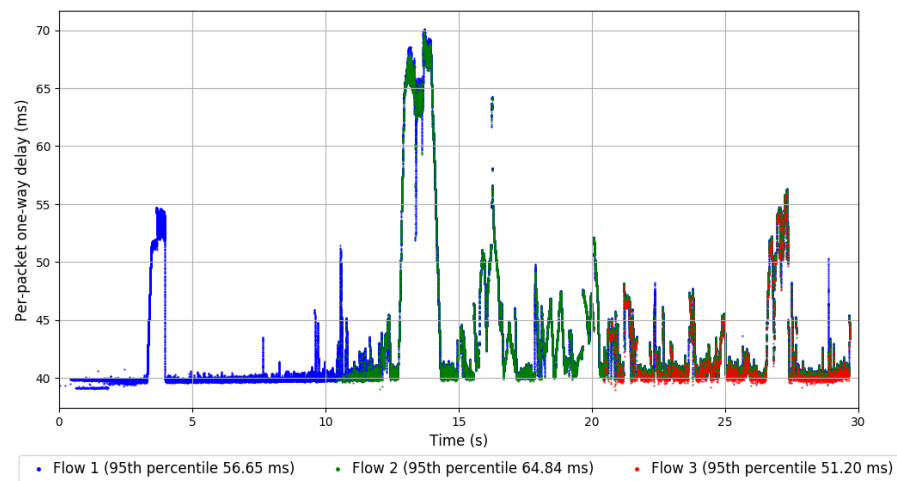
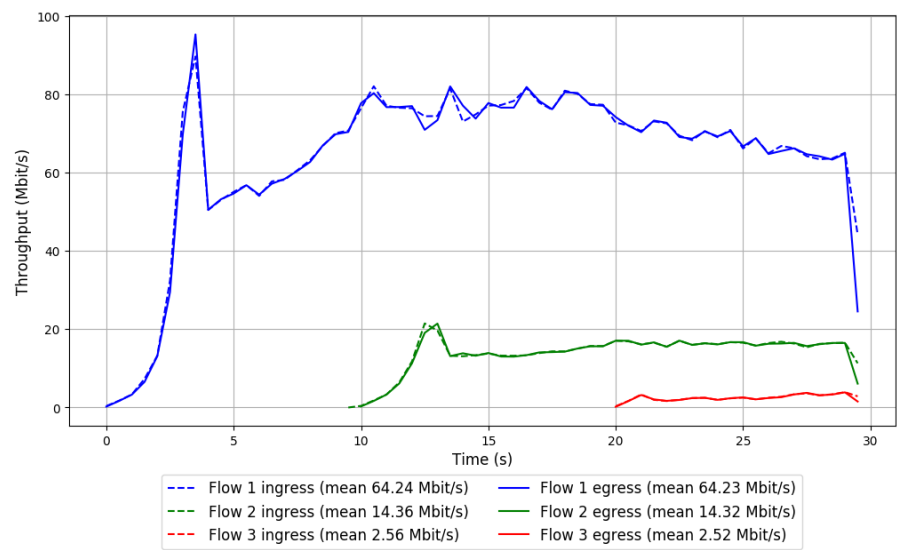


Run 2: Statistics of PCC-Vivace

Start at: 2018-04-24 17:40:18  
End at: 2018-04-24 17:40:48  
Local clock offset: -2.644 ms  
Remote clock offset: -2.795 ms

# Below is generated by plot.py at 2018-04-25 00:58:34  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 74.54 Mbit/s  
95th percentile per-packet one-way delay: 59.184 ms  
Loss rate: 0.80%  
-- Flow 1:  
Average throughput: 64.23 Mbit/s  
95th percentile per-packet one-way delay: 56.649 ms  
Loss rate: 0.70%  
-- Flow 2:  
Average throughput: 14.32 Mbit/s  
95th percentile per-packet one-way delay: 64.845 ms  
Loss rate: 1.21%  
-- Flow 3:  
Average throughput: 2.52 Mbit/s  
95th percentile per-packet one-way delay: 51.202 ms  
Loss rate: 3.33%

Run 2: Report of PCC-Vivace — Data Link

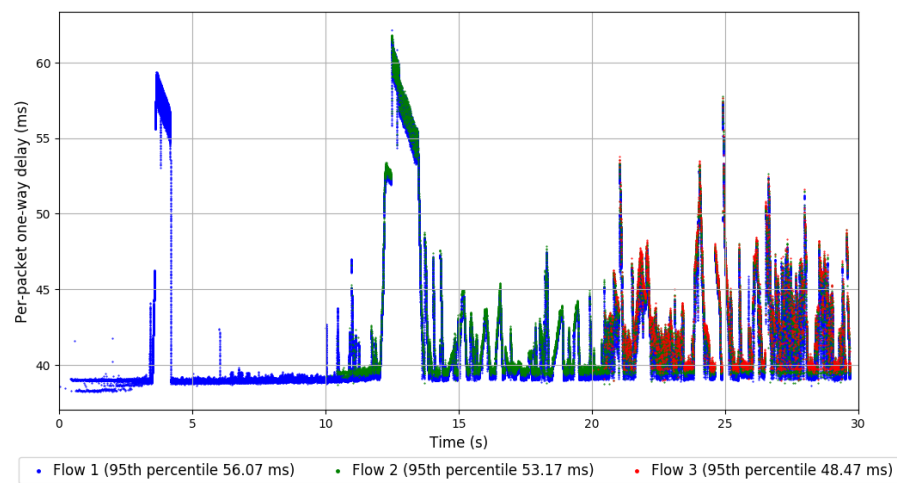
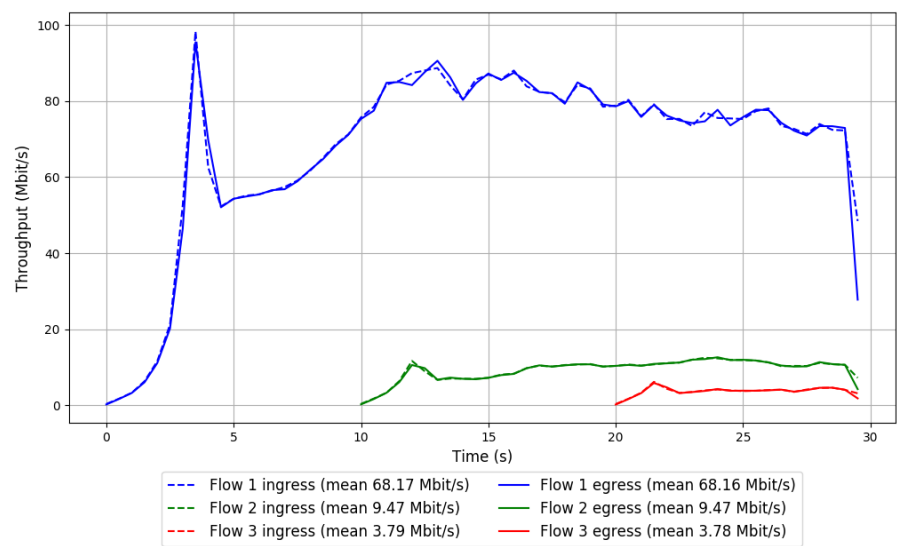


Run 3: Statistics of PCC-Vivace

Start at: 2018-04-24 18:03:24  
End at: 2018-04-24 18:03:54  
Local clock offset: -6.096 ms  
Remote clock offset: -2.101 ms

# Below is generated by plot.py at 2018-04-25 00:59:32  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 75.66 Mbit/s  
95th percentile per-packet one-way delay: 55.911 ms  
Loss rate: 0.72%  
-- Flow 1:  
Average throughput: 68.16 Mbit/s  
95th percentile per-packet one-way delay: 56.068 ms  
Loss rate: 0.66%  
-- Flow 2:  
Average throughput: 9.47 Mbit/s  
95th percentile per-packet one-way delay: 53.166 ms  
Loss rate: 1.03%  
-- Flow 3:  
Average throughput: 3.78 Mbit/s  
95th percentile per-packet one-way delay: 48.474 ms  
Loss rate: 2.24%

Run 3: Report of PCC-Vivace — Data Link

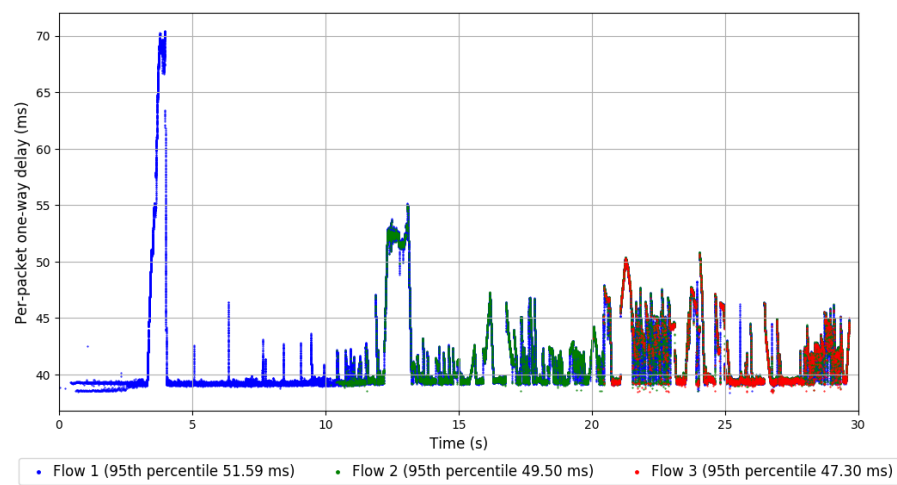
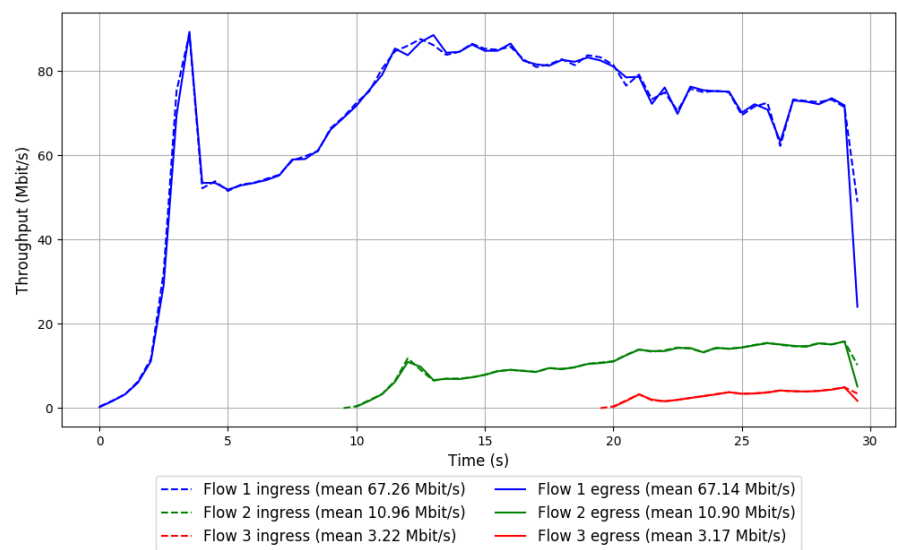


Run 4: Statistics of PCC-Vivace

Start at: 2018-04-24 18:26:17  
End at: 2018-04-24 18:26:47  
Local clock offset: -1.243 ms  
Remote clock offset: -1.387 ms

# Below is generated by plot.py at 2018-04-25 00:59:33  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 75.40 Mbit/s  
95th percentile per-packet one-way delay: 51.498 ms  
Loss rate: 0.96%  
-- Flow 1:  
Average throughput: 67.14 Mbit/s  
95th percentile per-packet one-way delay: 51.594 ms  
Loss rate: 0.86%  
-- Flow 2:  
Average throughput: 10.90 Mbit/s  
95th percentile per-packet one-way delay: 49.503 ms  
Loss rate: 1.47%  
-- Flow 3:  
Average throughput: 3.17 Mbit/s  
95th percentile per-packet one-way delay: 47.300 ms  
Loss rate: 3.44%

Run 4: Report of PCC-Vivace — Data Link



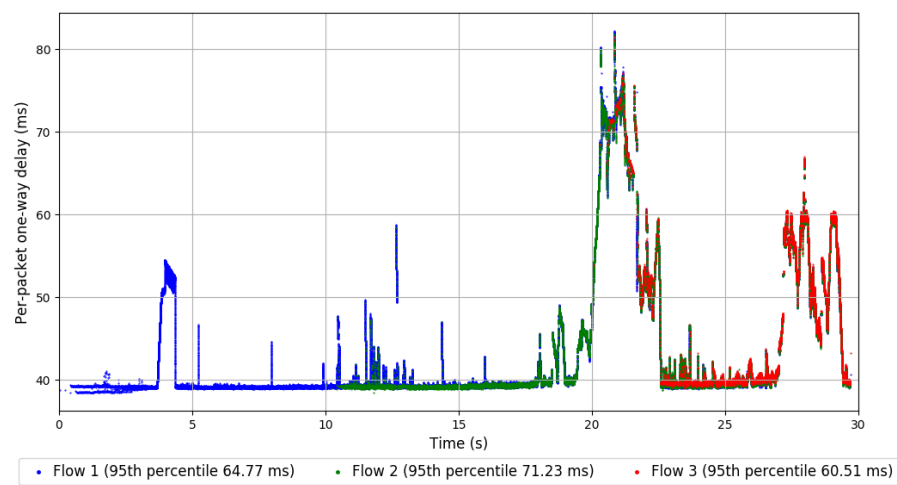
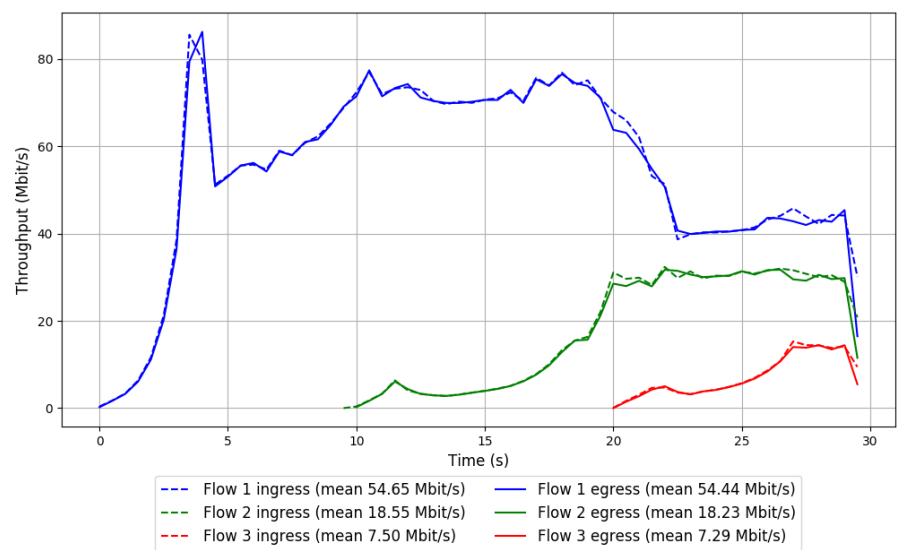


Run 5: Statistics of PCC-Vivace

Start at: 2018-04-24 18:49:10  
End at: 2018-04-24 18:49:40  
Local clock offset: 0.984 ms  
Remote clock offset: -1.506 ms

# Below is generated by plot.py at 2018-04-25 00:59:33  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 68.89 Mbit/s  
95th percentile per-packet one-way delay: 66.370 ms  
Loss rate: 1.48%  
-- Flow 1:  
Average throughput: 54.44 Mbit/s  
95th percentile per-packet one-way delay: 64.767 ms  
Loss rate: 1.04%  
-- Flow 2:  
Average throughput: 18.23 Mbit/s  
95th percentile per-packet one-way delay: 71.235 ms  
Loss rate: 2.77%  
-- Flow 3:  
Average throughput: 7.29 Mbit/s  
95th percentile per-packet one-way delay: 60.510 ms  
Loss rate: 4.80%

Run 5: Report of PCC-Vivace — Data Link



Run 6: Statistics of PCC-Vivace

Start at: 2018-04-24 19:12:04

End at: 2018-04-24 19:12:34

Local clock offset: 3.306 ms

Remote clock offset: -1.6 ms

# Below is generated by plot.py at 2018-04-25 00:59:34

# Datalink statistics

-- Total of 3 flows:

Average throughput: 74.56 Mbit/s

95th percentile per-packet one-way delay: 54.746 ms

Loss rate: 0.88%

-- Flow 1:

Average throughput: 57.91 Mbit/s

95th percentile per-packet one-way delay: 54.505 ms

Loss rate: 0.63%

-- Flow 2:

Average throughput: 23.36 Mbit/s

95th percentile per-packet one-way delay: 57.513 ms

Loss rate: 1.62%

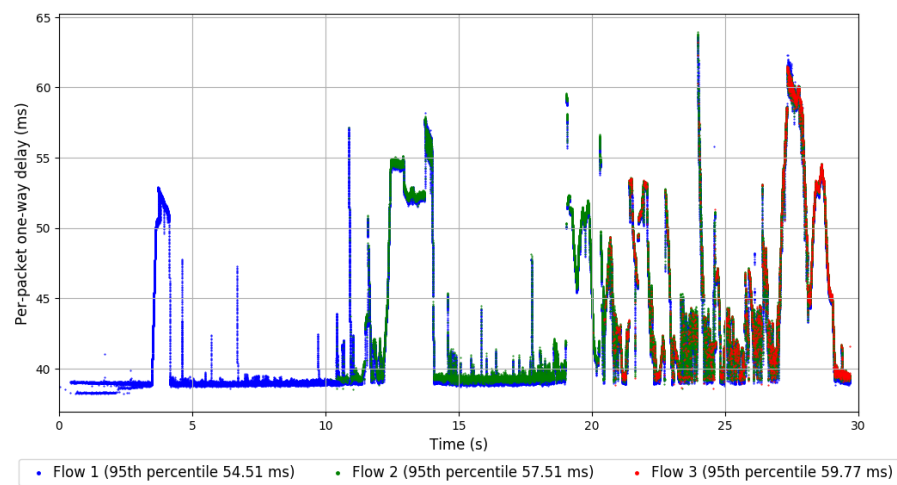
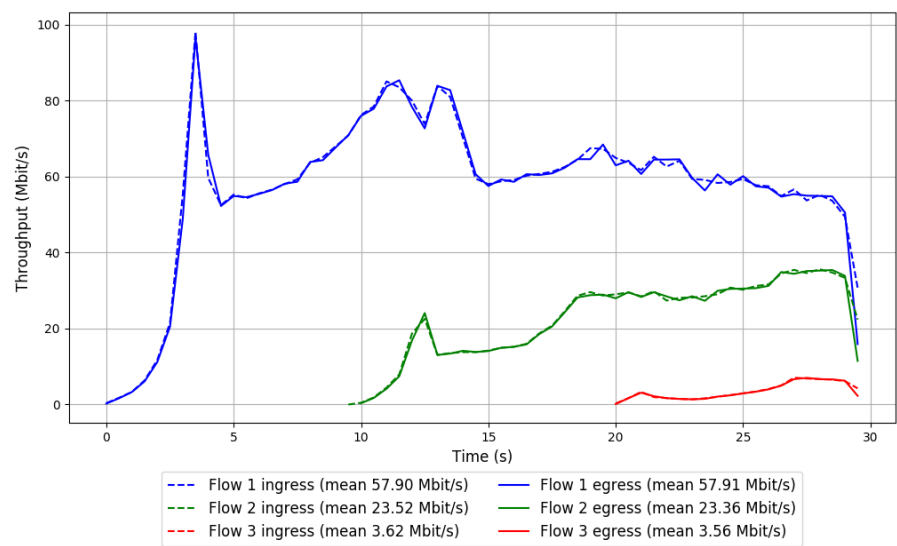
-- Flow 3:

Average throughput: 3.56 Mbit/s

95th percentile per-packet one-way delay: 59.769 ms

Loss rate: 3.48%

Run 6: Report of PCC-Vivace — Data Link



Run 7: Statistics of PCC-Vivace

Start at: 2018-04-24 19:34:54

End at: 2018-04-24 19:35:24

Local clock offset: -2.148 ms

Remote clock offset: -0.94 ms

# Below is generated by plot.py at 2018-04-25 00:59:34

# Datalink statistics

-- Total of 3 flows:

Average throughput: 62.21 Mbit/s

95th percentile per-packet one-way delay: 63.382 ms

Loss rate: 1.04%

-- Flow 1:

Average throughput: 57.91 Mbit/s

95th percentile per-packet one-way delay: 62.601 ms

Loss rate: 0.98%

-- Flow 2:

Average throughput: 3.52 Mbit/s

95th percentile per-packet one-way delay: 69.937 ms

Loss rate: 1.31%

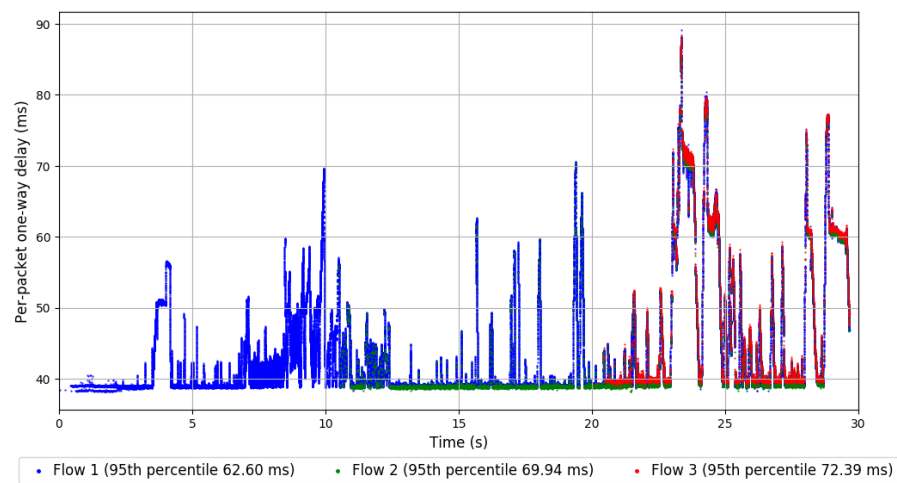
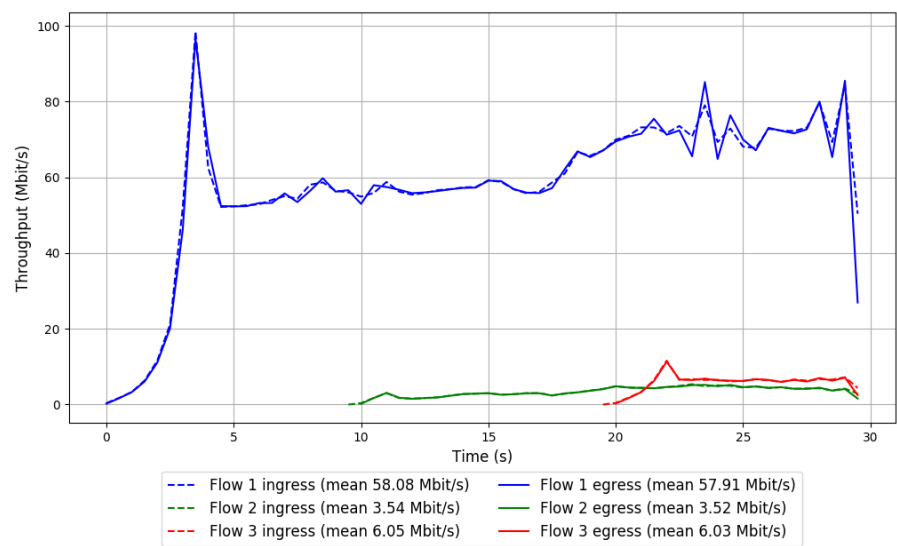
-- Flow 3:

Average throughput: 6.03 Mbit/s

95th percentile per-packet one-way delay: 72.395 ms

Loss rate: 2.37%

Run 7: Report of PCC-Vivace — Data Link

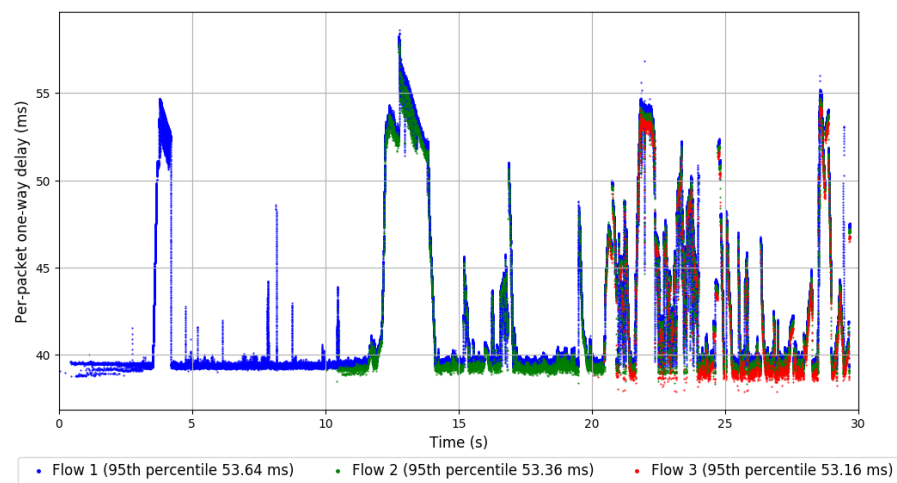
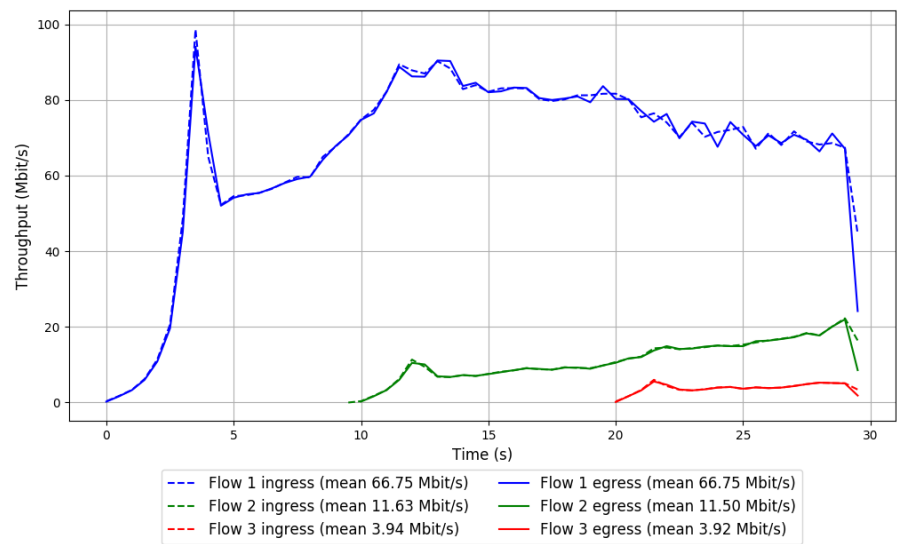


Run 8: Statistics of PCC-Vivace

Start at: 2018-04-24 19:57:45  
End at: 2018-04-24 19:58:15  
Local clock offset: 0.659 ms  
Remote clock offset: -0.825 ms

# Below is generated by plot.py at 2018-04-25 00:59:36  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 75.65 Mbit/s  
95th percentile per-packet one-way delay: 53.564 ms  
Loss rate: 0.84%  
-- Flow 1:  
Average throughput: 66.75 Mbit/s  
95th percentile per-packet one-way delay: 53.642 ms  
Loss rate: 0.66%  
-- Flow 2:  
Average throughput: 11.50 Mbit/s  
95th percentile per-packet one-way delay: 53.359 ms  
Loss rate: 2.11%  
-- Flow 3:  
Average throughput: 3.92 Mbit/s  
95th percentile per-packet one-way delay: 53.157 ms  
Loss rate: 2.60%

Run 8: Report of PCC-Vivace — Data Link



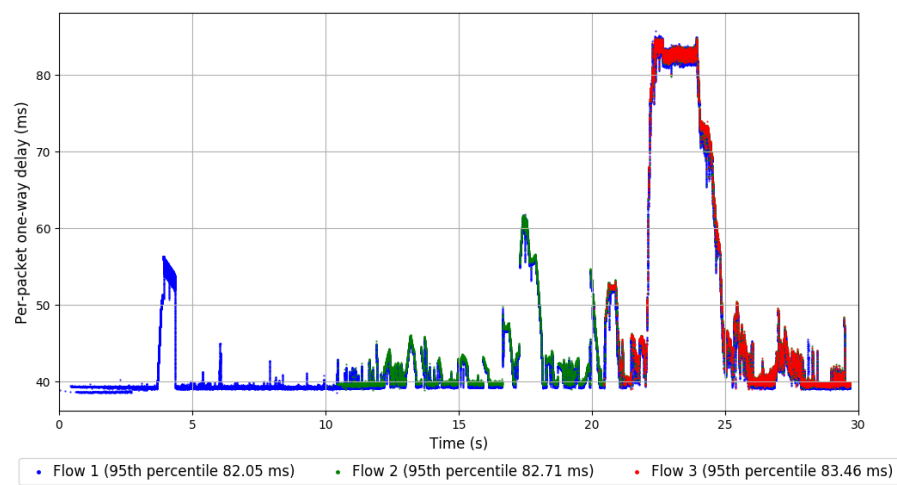
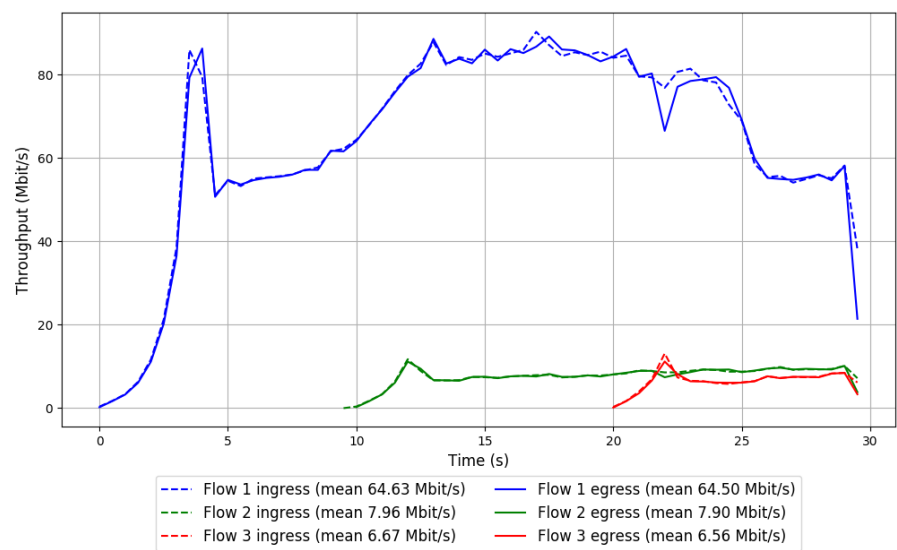


Run 9: Statistics of PCC-Vivace

Start at: 2018-04-24 20:20:54  
End at: 2018-04-24 20:21:24  
Local clock offset: 5.749 ms  
Remote clock offset: -0.623 ms

# Below is generated by plot.py at 2018-04-25 00:59:36  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 71.86 Mbit/s  
95th percentile per-packet one-way delay: 82.229 ms  
Loss rate: 1.01%  
-- Flow 1:  
Average throughput: 64.50 Mbit/s  
95th percentile per-packet one-way delay: 82.054 ms  
Loss rate: 0.86%  
-- Flow 2:  
Average throughput: 7.90 Mbit/s  
95th percentile per-packet one-way delay: 82.713 ms  
Loss rate: 1.76%  
-- Flow 3:  
Average throughput: 6.56 Mbit/s  
95th percentile per-packet one-way delay: 83.461 ms  
Loss rate: 3.71%

Run 9: Report of PCC-Vivace — Data Link

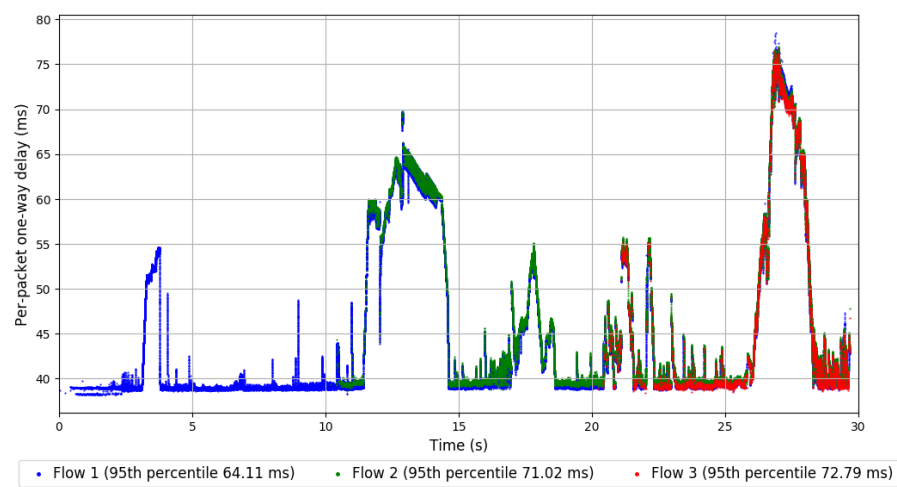
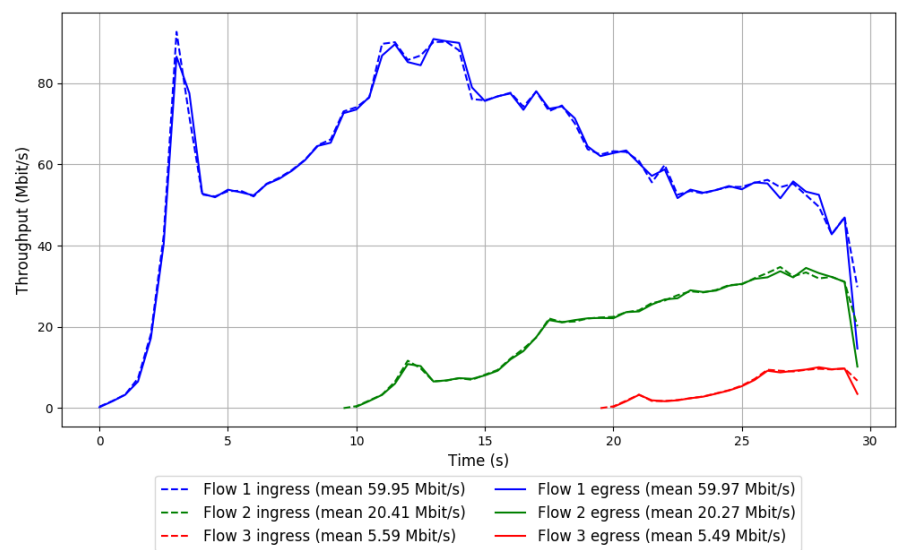


Run 10: Statistics of PCC-Vivace

Start at: 2018-04-24 20:43:45  
End at: 2018-04-24 20:44:15  
Local clock offset: 3.948 ms  
Remote clock offset: -0.486 ms

# Below is generated by plot.py at 2018-04-25 00:59:37  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 75.20 Mbit/s  
95th percentile per-packet one-way delay: 65.413 ms  
Loss rate: 0.87%  
-- Flow 1:  
Average throughput: 59.97 Mbit/s  
95th percentile per-packet one-way delay: 64.109 ms  
Loss rate: 0.60%  
-- Flow 2:  
Average throughput: 20.27 Mbit/s  
95th percentile per-packet one-way delay: 71.023 ms  
Loss rate: 1.64%  
-- Flow 3:  
Average throughput: 5.49 Mbit/s  
95th percentile per-packet one-way delay: 72.793 ms  
Loss rate: 3.73%

Run 10: Report of PCC-Vivace — Data Link



Run 1: Statistics of PCC-Expr

Start at: 2018-04-24 17:02:48  
End at: 2018-04-24 17:03:18  
Local clock offset: -4.602 ms  
Remote clock offset: -8.517 ms

Run 1: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 2: Statistics of PCC-Expr

Start at: 2018-04-24 17:25:42

End at: 2018-04-24 17:26:12

Local clock offset: -1.005 ms

Remote clock offset: -6.63 ms

Run 2: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing



Run 3: Statistics of PCC-Expr

Start at: 2018-04-24 17:48:46

End at: 2018-04-24 17:49:16

Local clock offset: -4.171 ms

Remote clock offset: -2.106 ms

Run 3: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 4: Statistics of PCC-Expr

Start at: 2018-04-24 18:11:39

End at: 2018-04-24 18:12:09

Local clock offset: -5.082 ms

Remote clock offset: -1.451 ms

Run 4: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 5: Statistics of PCC-Expr

Start at: 2018-04-24 18:34:34

End at: 2018-04-24 18:35:04

Local clock offset: -0.825 ms

Remote clock offset: -1.146 ms

Run 5: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 6: Statistics of PCC-Expr

Start at: 2018-04-24 18:57:26  
End at: 2018-04-24 18:57:56  
Local clock offset: 2.301 ms  
Remote clock offset: -14.409 ms

Run 6: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing



Run 7: Statistics of PCC-Expr

Start at: 2018-04-24 19:20:19

End at: 2018-04-24 19:20:49

Local clock offset: 1.735 ms

Remote clock offset: -1.164 ms

Run 7: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 8: Statistics of PCC-Expr

Start at: 2018-04-24 19:43:09

End at: 2018-04-24 19:43:39

Local clock offset: -2.563 ms

Remote clock offset: -0.78 ms

Run 8: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 9: Statistics of PCC-Expr

Start at: 2018-04-24 20:06:00

End at: 2018-04-24 20:06:30

Local clock offset: 3.109 ms

Remote clock offset: -0.735 ms

Run 9: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 10: Statistics of PCC-Expr

Start at: 2018-04-24 20:29:09

End at: 2018-04-24 20:29:39

Local clock offset: 5.113 ms

Remote clock offset: -0.602 ms

Run 10: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing