

## Pantheon Report

Generated at 2018-04-25 02:08:20 (UTC).

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

Repeated the test of 16 congestion control schemes 10 times.

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

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

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

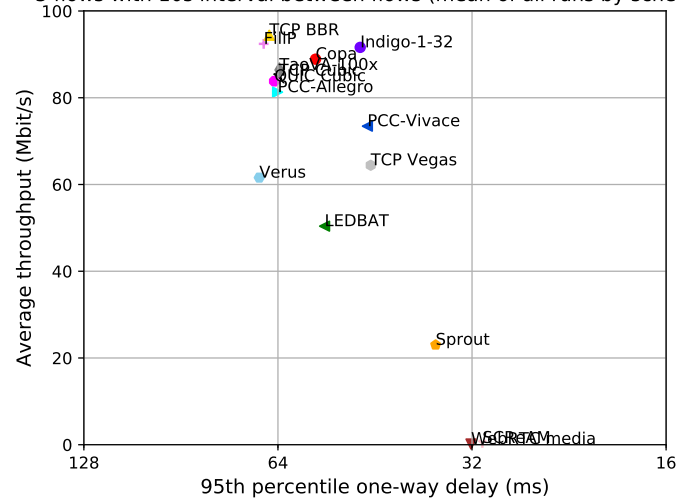
NTP offsets were measured against `time.stanford.edu` and have been applied to correct the timestamps in logs.

Git summary:

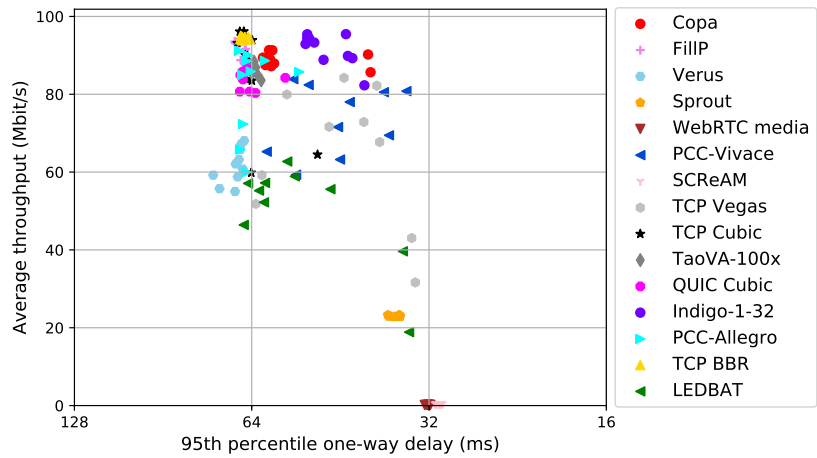
```
branch: master @ 114e807ac1bad7b85168ceb1f8a969063ee6c12c
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ 11f8c46a2bf1dc797253db7e8ca04076272b2a44
third_party/genericCC @ d223989828276fa83a807da6e0341dc0c7b89aec
third_party/indigo @ 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 AWS California 2 Ethernet to Mexico Ethernet, 10 runs of 30s each per scheme  
3 flows with 10s interval between flows (mean of all runs by scheme)



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





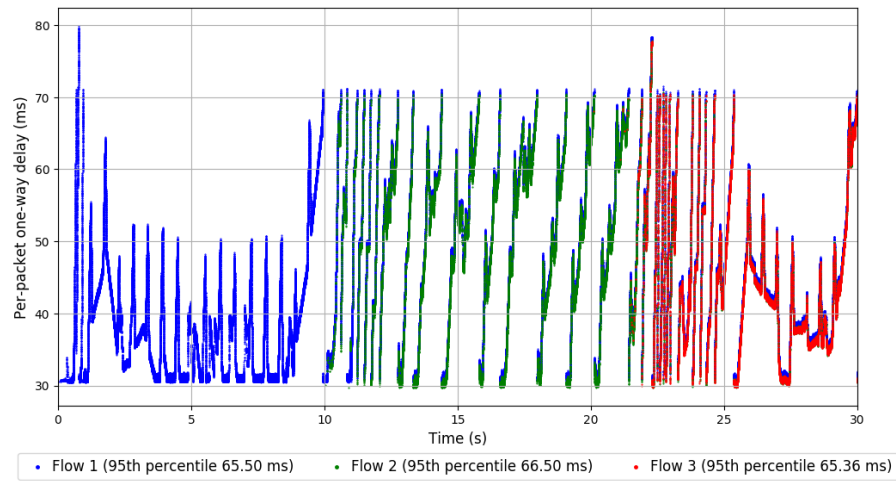
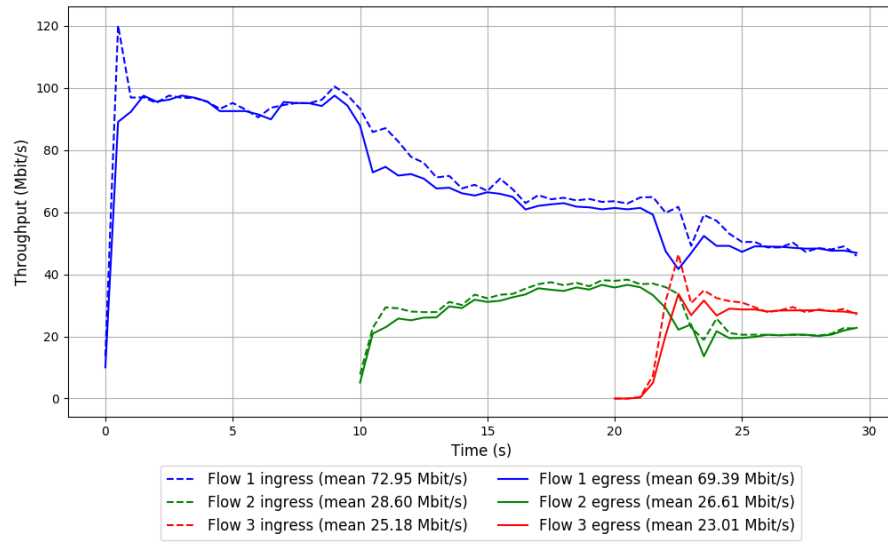


Run 1: Statistics of TCP BBR

Start at: 2018-04-24 21:18:06  
End at: 2018-04-24 21:18:36  
Local clock offset: 1.269 ms  
Remote clock offset: -0.224 ms

# Below is generated by plot.py at 2018-04-25 01:40:44  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 94.72 Mbit/s  
95th percentile per-packet one-way delay: 65.730 ms  
Loss rate: 5.62%  
-- Flow 1:  
Average throughput: 69.39 Mbit/s  
95th percentile per-packet one-way delay: 65.499 ms  
Loss rate: 4.88%  
-- Flow 2:  
Average throughput: 26.61 Mbit/s  
95th percentile per-packet one-way delay: 66.500 ms  
Loss rate: 6.96%  
-- Flow 3:  
Average throughput: 23.01 Mbit/s  
95th percentile per-packet one-way delay: 65.365 ms  
Loss rate: 8.98%

# Run 1: Report of TCP BBR — Data Link

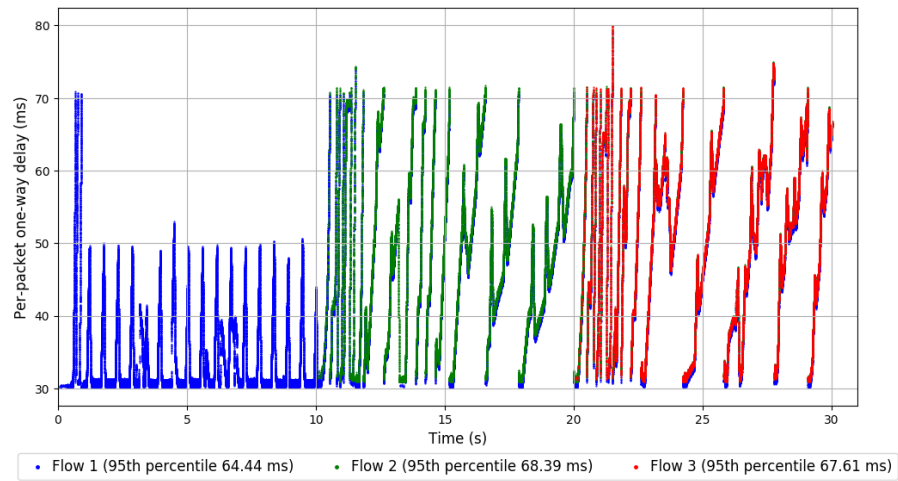
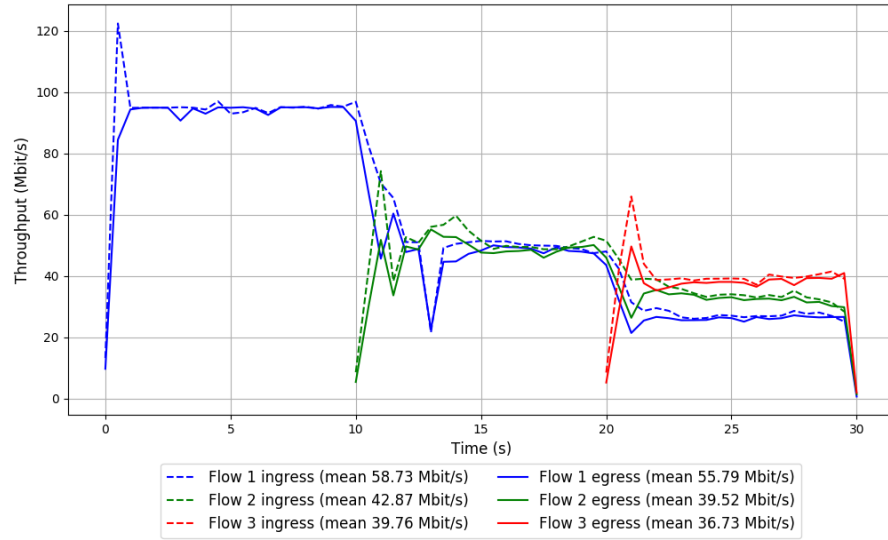


Run 2: Statistics of TCP BBR

Start at: 2018-04-24 21:43:20  
End at: 2018-04-24 21:43:50  
Local clock offset: 0.813 ms  
Remote clock offset: -0.164 ms

# Below is generated by plot.py at 2018-04-25 01:40:44  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 94.32 Mbit/s  
95th percentile per-packet one-way delay: 66.419 ms  
Loss rate: 6.02%  
-- Flow 1:  
Average throughput: 55.79 Mbit/s  
95th percentile per-packet one-way delay: 64.440 ms  
Loss rate: 4.93%  
-- Flow 2:  
Average throughput: 39.52 Mbit/s  
95th percentile per-packet one-way delay: 68.395 ms  
Loss rate: 7.66%  
-- Flow 3:  
Average throughput: 36.73 Mbit/s  
95th percentile per-packet one-way delay: 67.608 ms  
Loss rate: 7.32%

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



Run 3: Statistics of TCP BBR

Start at: 2018-04-24 22:08:57

End at: 2018-04-24 22:09:27

Local clock offset: 0.311 ms

Remote clock offset: 0.34 ms

# Below is generated by plot.py at 2018-04-25 01:40:44

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.05 Mbit/s

95th percentile per-packet one-way delay: 66.816 ms

Loss rate: 5.96%

-- Flow 1:

Average throughput: 59.75 Mbit/s

95th percentile per-packet one-way delay: 66.523 ms

Loss rate: 4.91%

-- Flow 2:

Average throughput: 32.95 Mbit/s

95th percentile per-packet one-way delay: 67.506 ms

Loss rate: 7.54%

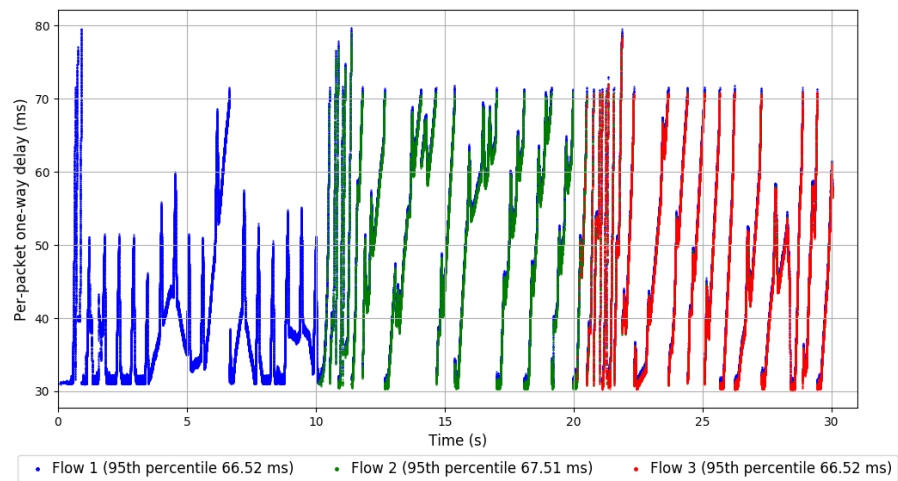
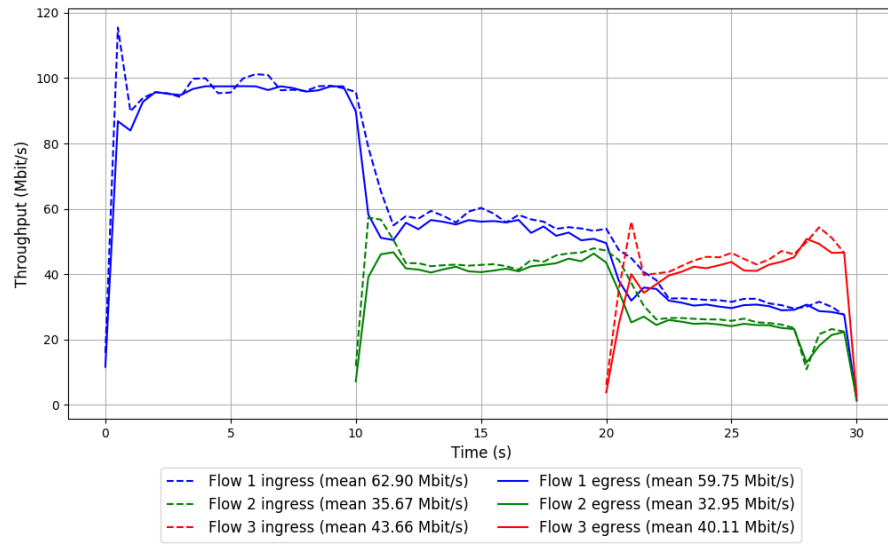
-- Flow 3:

Average throughput: 40.11 Mbit/s

95th percentile per-packet one-way delay: 66.518 ms

Loss rate: 7.89%

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



Run 4: Statistics of TCP BBR

Start at: 2018-04-24 22:33:18

End at: 2018-04-24 22:33:48

Local clock offset: 0.203 ms

Remote clock offset: 0.314 ms

# Below is generated by plot.py at 2018-04-25 01:40:46

# Datalink statistics

-- Total of 3 flows:

Average throughput: 94.13 Mbit/s

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

Loss rate: 7.75%

-- Flow 1:

Average throughput: 55.81 Mbit/s

95th percentile per-packet one-way delay: 65.478 ms

Loss rate: 5.79%

-- Flow 2:

Average throughput: 44.78 Mbit/s

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

Loss rate: 10.99%

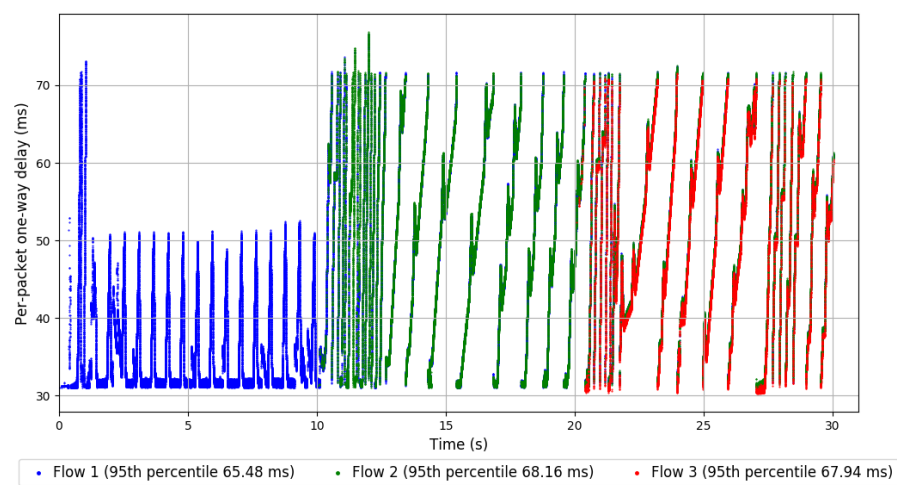
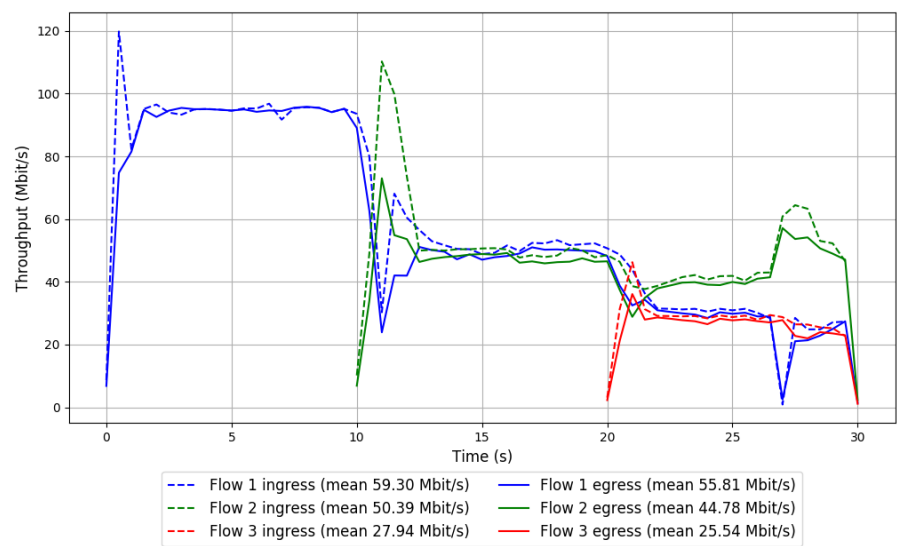
-- Flow 3:

Average throughput: 25.54 Mbit/s

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

Loss rate: 8.53%

Run 4: Report of TCP BBR — Data Link



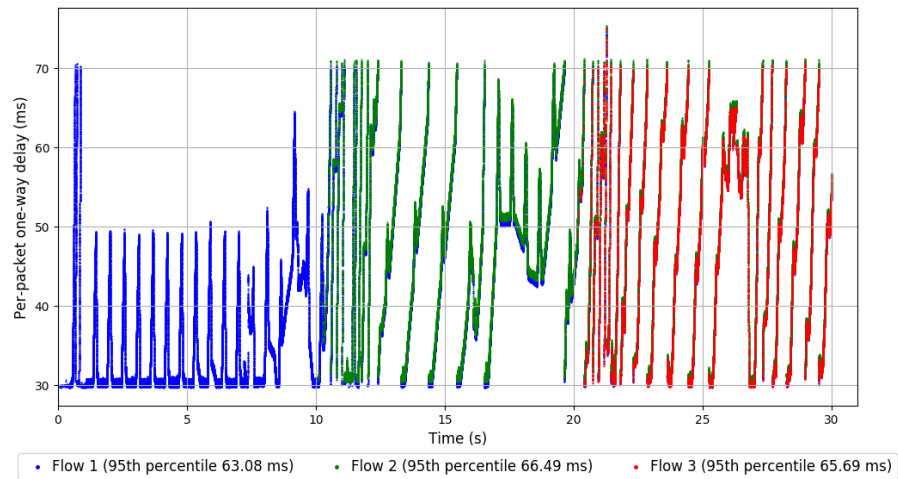
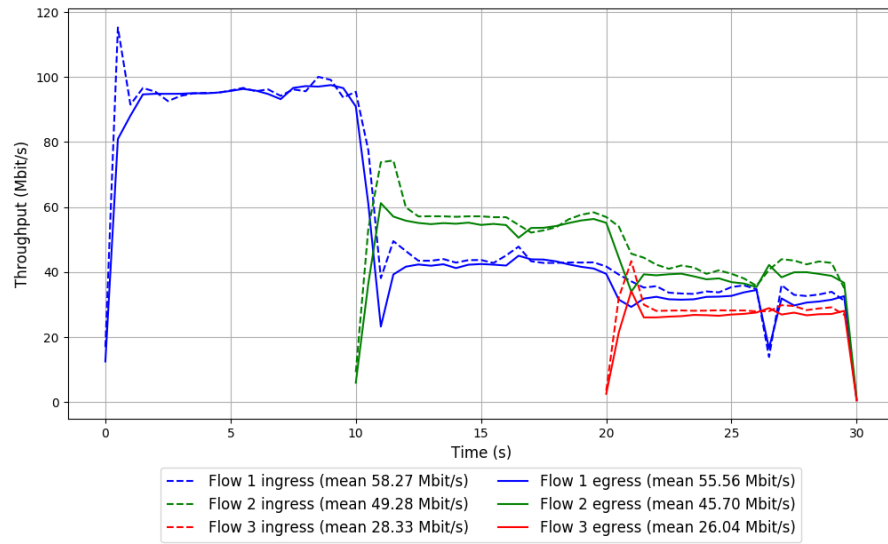


Run 5: Statistics of TCP BBR

Start at: 2018-04-24 22:57:55  
End at: 2018-04-24 22:58:25  
Local clock offset: 0.656 ms  
Remote clock offset: -0.489 ms

# Below is generated by plot.py at 2018-04-25 01:40:46  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 94.66 Mbit/s  
95th percentile per-packet one-way delay: 64.829 ms  
Loss rate: 5.72%  
-- Flow 1:  
Average throughput: 55.56 Mbit/s  
95th percentile per-packet one-way delay: 63.080 ms  
Loss rate: 4.56%  
-- Flow 2:  
Average throughput: 45.70 Mbit/s  
95th percentile per-packet one-way delay: 66.492 ms  
Loss rate: 7.14%  
-- Flow 3:  
Average throughput: 26.04 Mbit/s  
95th percentile per-packet one-way delay: 65.689 ms  
Loss rate: 7.99%

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



Run 6: Statistics of TCP BBR

Start at: 2018-04-24 23:23:28

End at: 2018-04-24 23:23:58

Local clock offset: 0.685 ms

Remote clock offset: 0.367 ms

# Below is generated by plot.py at 2018-04-25 01:40:46

# Datalink statistics

-- Total of 3 flows:

Average throughput: 94.61 Mbit/s

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

Loss rate: 5.52%

-- Flow 1:

Average throughput: 63.49 Mbit/s

95th percentile per-packet one-way delay: 64.255 ms

Loss rate: 4.59%

-- Flow 2:

Average throughput: 32.43 Mbit/s

95th percentile per-packet one-way delay: 67.496 ms

Loss rate: 6.57%

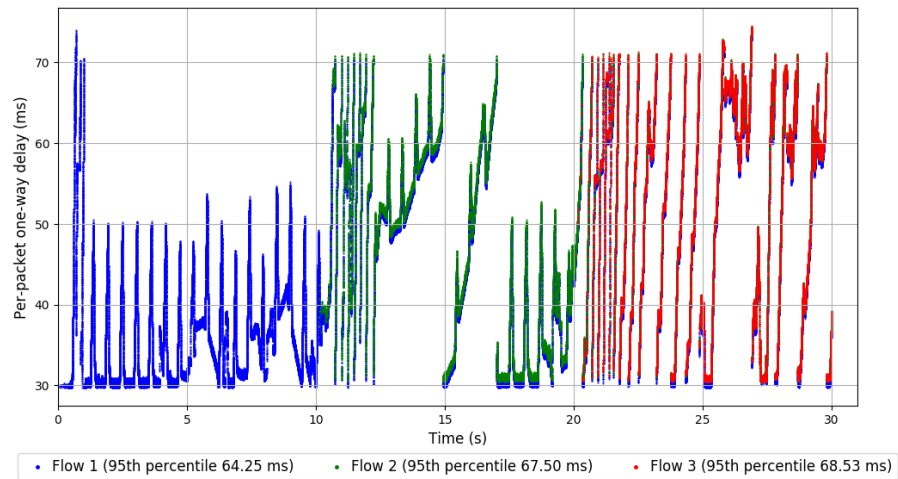
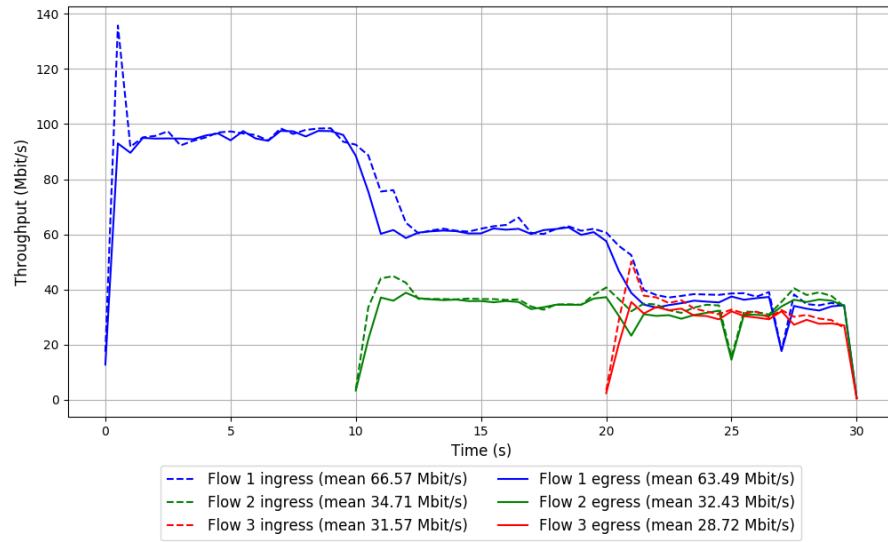
-- Flow 3:

Average throughput: 28.72 Mbit/s

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

Loss rate: 9.08%

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



Run 7: Statistics of TCP BBR

Start at: 2018-04-24 23:48:22

End at: 2018-04-24 23:48:52

Local clock offset: 0.707 ms

Remote clock offset: 0.299 ms

# Below is generated by plot.py at 2018-04-25 01:40:46

# Datalink statistics

-- Total of 3 flows:

Average throughput: 93.97 Mbit/s

95th percentile per-packet one-way delay: 65.726 ms

Loss rate: 7.63%

-- Flow 1:

Average throughput: 57.09 Mbit/s

95th percentile per-packet one-way delay: 64.053 ms

Loss rate: 5.19%

-- Flow 2:

Average throughput: 33.74 Mbit/s

95th percentile per-packet one-way delay: 66.188 ms

Loss rate: 12.95%

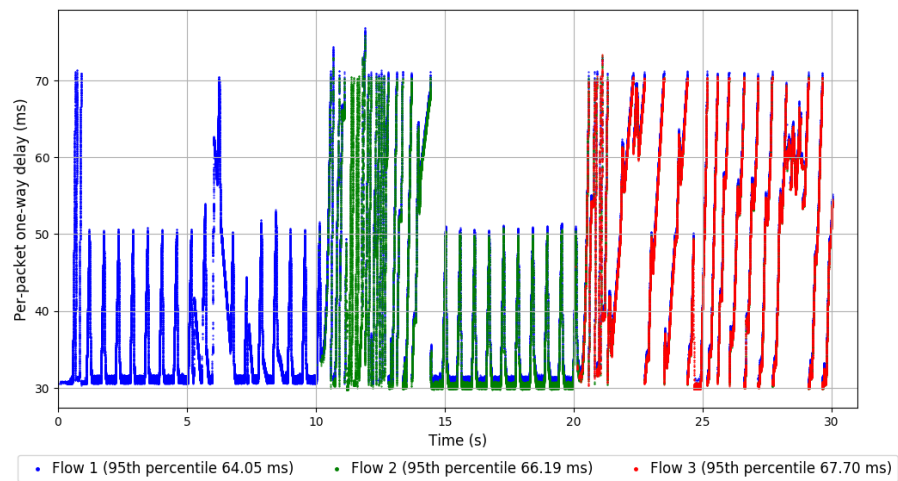
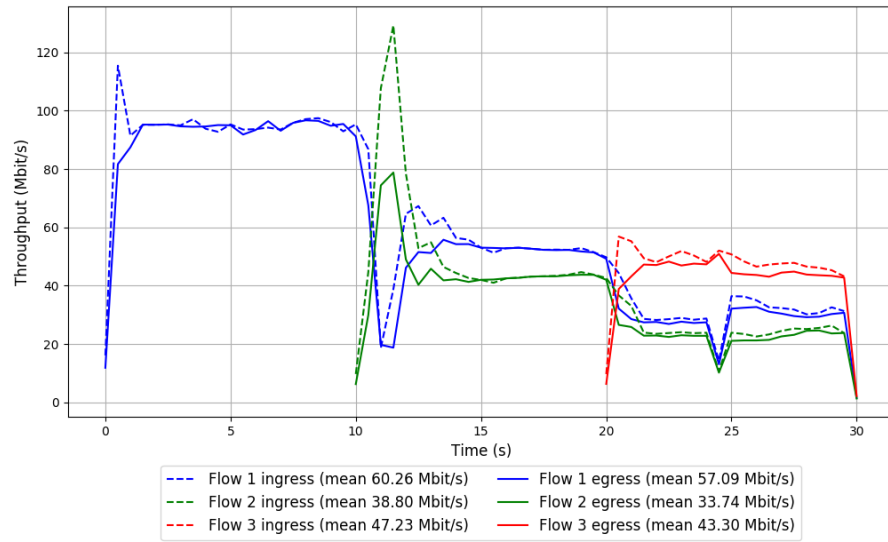
-- Flow 3:

Average throughput: 43.30 Mbit/s

95th percentile per-packet one-way delay: 67.704 ms

Loss rate: 8.23%

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



Run 8: Statistics of TCP BBR

Start at: 2018-04-25 00:13:58

End at: 2018-04-25 00:14:28

Local clock offset: 0.992 ms

Remote clock offset: 0.297 ms

# Below is generated by plot.py at 2018-04-25 01:40:46

# Datalink statistics

-- Total of 3 flows:

Average throughput: 93.84 Mbit/s

95th percentile per-packet one-way delay: 66.472 ms

Loss rate: 5.71%

-- Flow 1:

Average throughput: 58.52 Mbit/s

95th percentile per-packet one-way delay: 64.963 ms

Loss rate: 4.49%

-- Flow 2:

Average throughput: 37.23 Mbit/s

95th percentile per-packet one-way delay: 67.357 ms

Loss rate: 6.95%

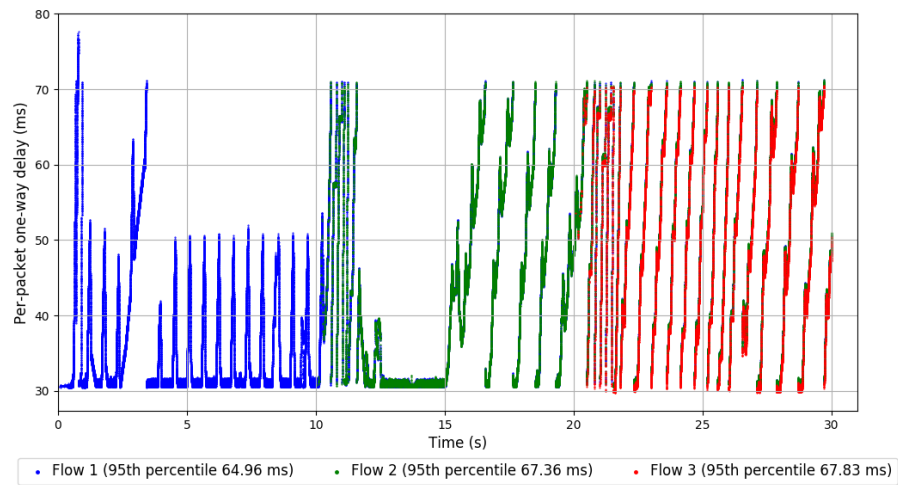
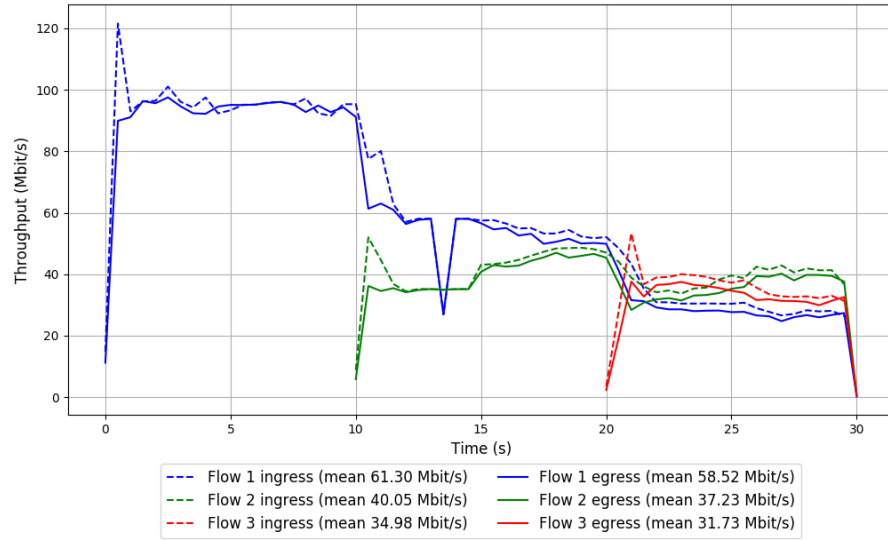
-- Flow 3:

Average throughput: 31.73 Mbit/s

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

Loss rate: 9.32%

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



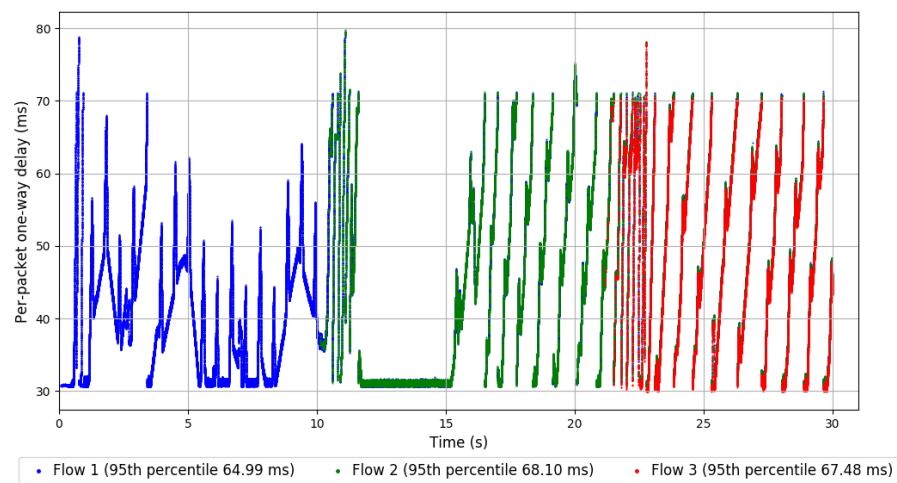
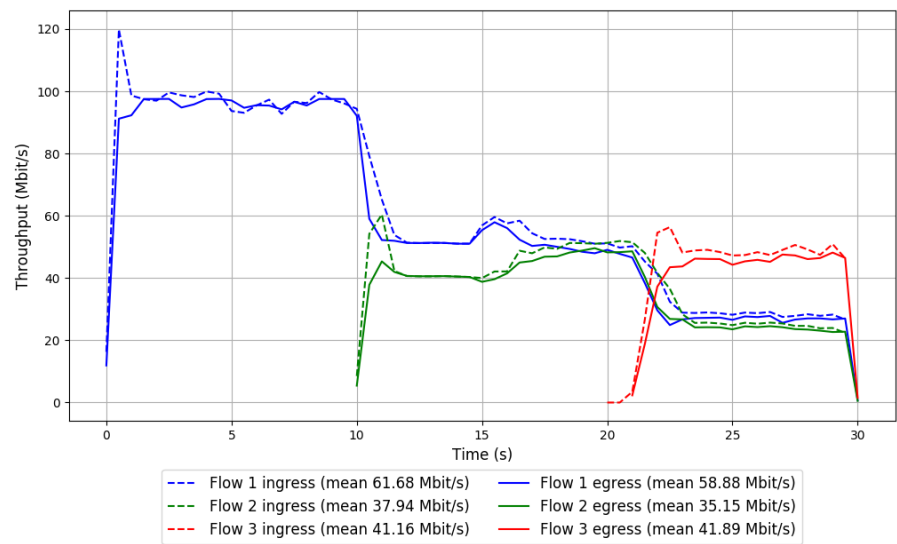


Run 9: Statistics of TCP BBR

Start at: 2018-04-25 00:40:11  
End at: 2018-04-25 00:40:41  
Local clock offset: 0.92 ms  
Remote clock offset: -0.663 ms

# Below is generated by plot.py at 2018-04-25 01:42:12  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 94.76 Mbit/s  
95th percentile per-packet one-way delay: 66.394 ms  
Loss rate: 5.77%  
-- Flow 1:  
Average throughput: 58.88 Mbit/s  
95th percentile per-packet one-way delay: 64.986 ms  
Loss rate: 4.50%  
-- Flow 2:  
Average throughput: 35.15 Mbit/s  
95th percentile per-packet one-way delay: 68.097 ms  
Loss rate: 7.30%  
-- Flow 3:  
Average throughput: 41.89 Mbit/s  
95th percentile per-packet one-way delay: 67.478 ms  
Loss rate: 8.69%

Run 9: Report of TCP BBR — Data Link

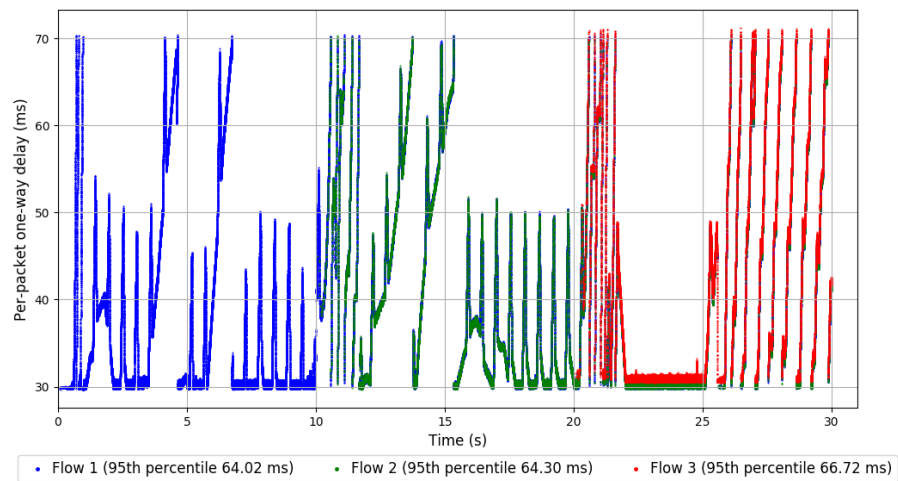
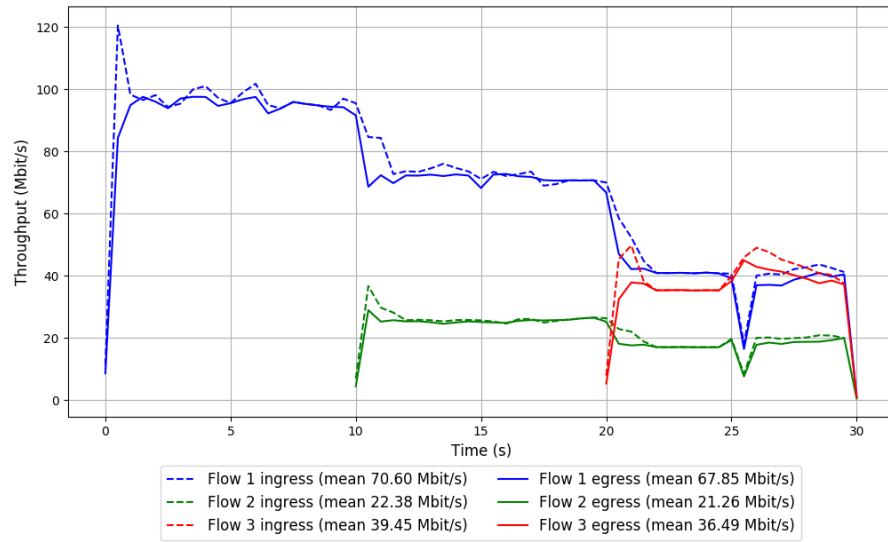


Run 10: Statistics of TCP BBR

Start at: 2018-04-25 01:07:21  
End at: 2018-04-25 01:07:51  
Local clock offset: 1.12 ms  
Remote clock offset: -4.366 ms

# Below is generated by plot.py at 2018-04-25 01:42:12  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 94.13 Mbit/s  
95th percentile per-packet one-way delay: 64.426 ms  
Loss rate: 4.50%  
-- Flow 1:  
Average throughput: 67.85 Mbit/s  
95th percentile per-packet one-way delay: 64.015 ms  
Loss rate: 3.85%  
-- Flow 2:  
Average throughput: 21.26 Mbit/s  
95th percentile per-packet one-way delay: 64.299 ms  
Loss rate: 5.04%  
-- Flow 3:  
Average throughput: 36.49 Mbit/s  
95th percentile per-packet one-way delay: 66.719 ms  
Loss rate: 7.40%

# Run 10: Report of TCP BBR — Data Link

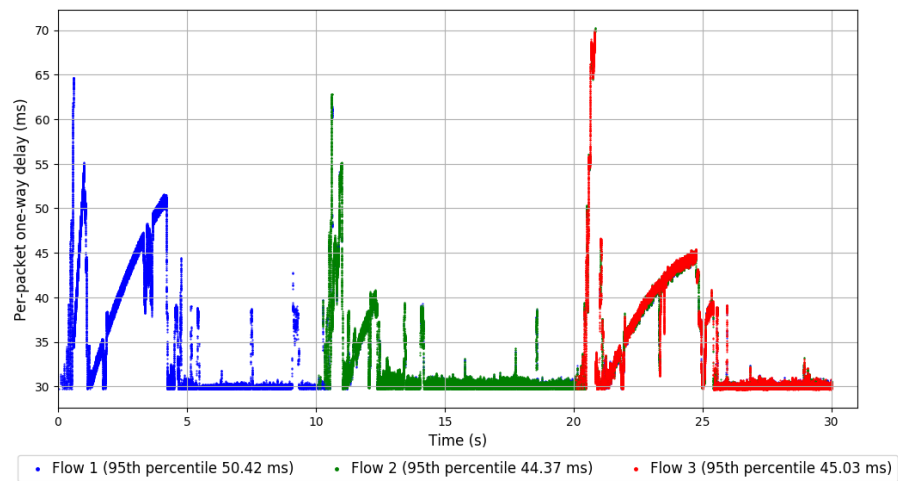
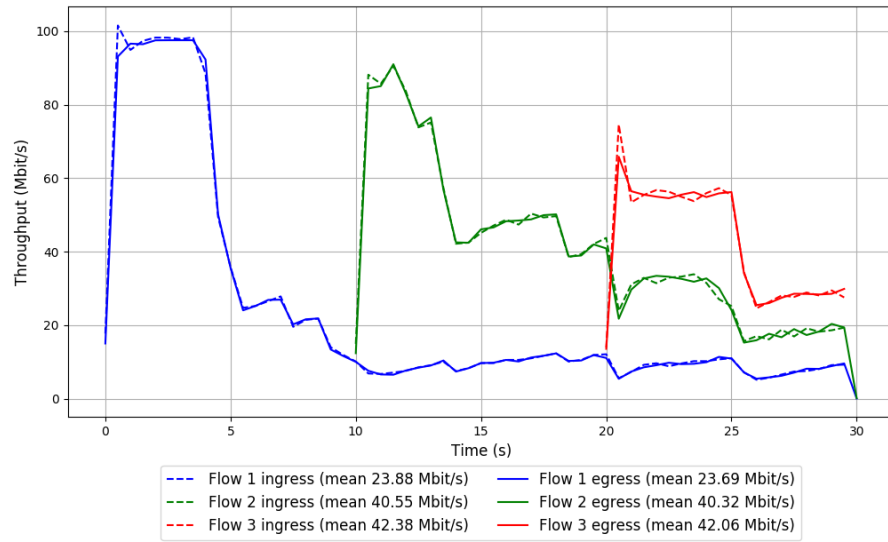


Run 1: Statistics of TCP Cubic

Start at: 2018-04-24 21:16:37  
End at: 2018-04-24 21:17:07  
Local clock offset: 1.275 ms  
Remote clock offset: -0.218 ms

# Below is generated by plot.py at 2018-04-25 01:42:12  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 64.50 Mbit/s  
95th percentile per-packet one-way delay: 49.484 ms  
Loss rate: 0.69%  
-- Flow 1:  
Average throughput: 23.69 Mbit/s  
95th percentile per-packet one-way delay: 50.421 ms  
Loss rate: 0.79%  
-- Flow 2:  
Average throughput: 40.32 Mbit/s  
95th percentile per-packet one-way delay: 44.369 ms  
Loss rate: 0.56%  
-- Flow 3:  
Average throughput: 42.06 Mbit/s  
95th percentile per-packet one-way delay: 45.030 ms  
Loss rate: 0.76%

# Run 1: Report of TCP Cubic — Data Link

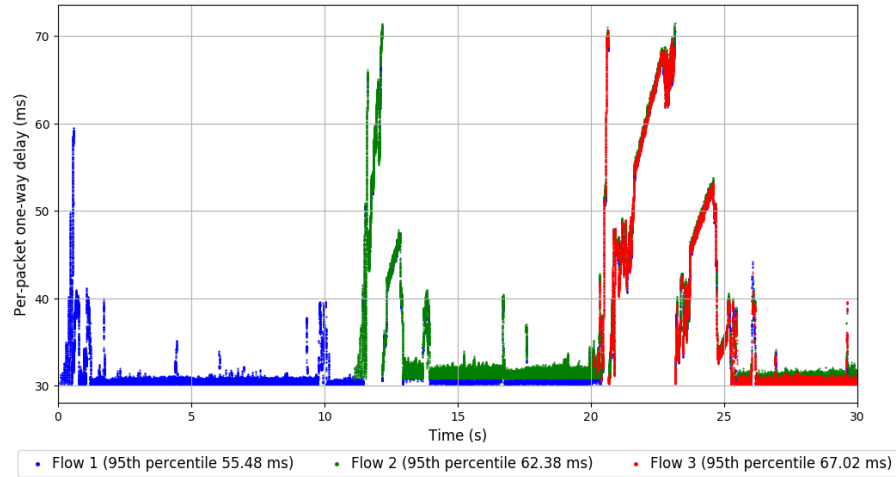
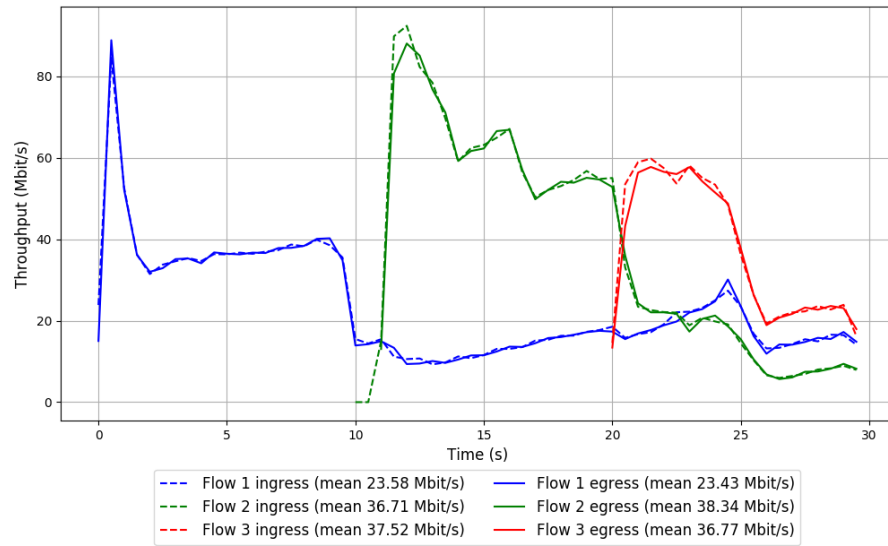


Run 2: Statistics of TCP Cubic

Start at: 2018-04-24 21:41:49  
End at: 2018-04-24 21:42:19  
Local clock offset: 0.834 ms  
Remote clock offset: -0.168 ms

# Below is generated by plot.py at 2018-04-25 01:42:12  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 59.84 Mbit/s  
95th percentile per-packet one-way delay: 64.123 ms  
Loss rate: 1.02%  
-- Flow 1:  
Average throughput: 23.43 Mbit/s  
95th percentile per-packet one-way delay: 55.479 ms  
Loss rate: 0.63%  
-- Flow 2:  
Average throughput: 38.34 Mbit/s  
95th percentile per-packet one-way delay: 62.380 ms  
Loss rate: 0.89%  
-- Flow 3:  
Average throughput: 36.77 Mbit/s  
95th percentile per-packet one-way delay: 67.017 ms  
Loss rate: 2.02%

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



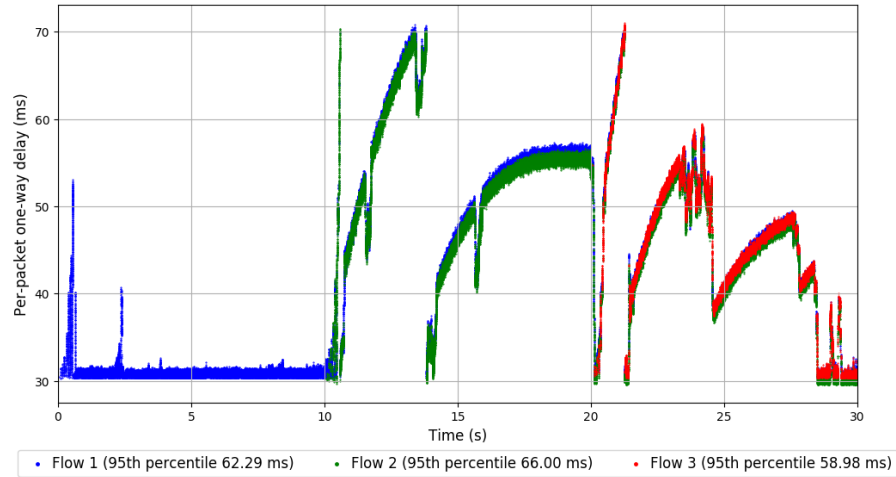
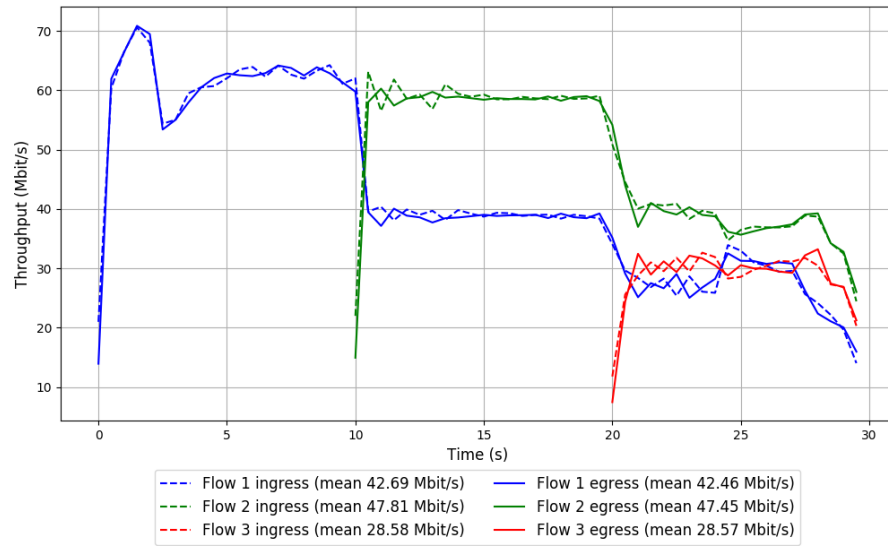


Run 3: Statistics of TCP Cubic

Start at: 2018-04-24 22:07:31  
End at: 2018-04-24 22:08:01  
Local clock offset: 0.409 ms  
Remote clock offset: -0.188 ms

# Below is generated by plot.py at 2018-04-25 01:42:12  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 83.50 Mbit/s  
95th percentile per-packet one-way delay: 63.959 ms  
Loss rate: 0.59%  
-- Flow 1:  
Average throughput: 42.46 Mbit/s  
95th percentile per-packet one-way delay: 62.289 ms  
Loss rate: 0.54%  
-- Flow 2:  
Average throughput: 47.45 Mbit/s  
95th percentile per-packet one-way delay: 66.004 ms  
Loss rate: 0.75%  
-- Flow 3:  
Average throughput: 28.57 Mbit/s  
95th percentile per-packet one-way delay: 58.982 ms  
Loss rate: 0.29%

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

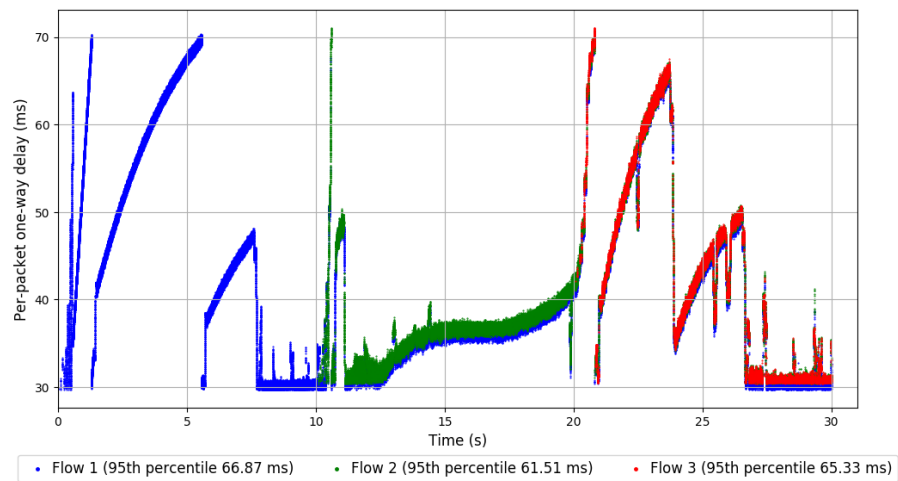
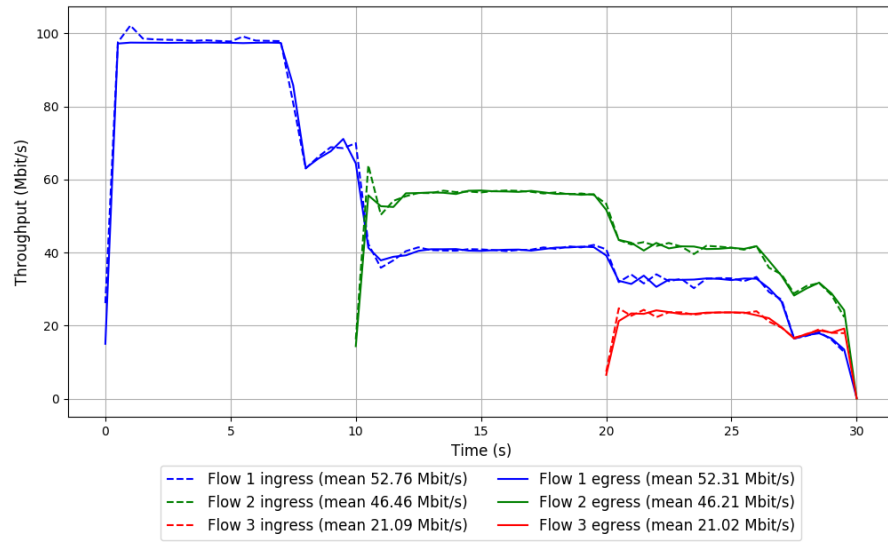


Run 4: Statistics of TCP Cubic

Start at: 2018-04-24 22:31:49  
End at: 2018-04-24 22:32:19  
Local clock offset: 0.292 ms  
Remote clock offset: -0.137 ms

# Below is generated by plot.py at 2018-04-25 01:42:12  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 90.05 Mbit/s  
95th percentile per-packet one-way delay: 65.631 ms  
Loss rate: 0.71%  
-- Flow 1:  
Average throughput: 52.31 Mbit/s  
95th percentile per-packet one-way delay: 66.868 ms  
Loss rate: 0.85%  
-- Flow 2:  
Average throughput: 46.21 Mbit/s  
95th percentile per-packet one-way delay: 61.513 ms  
Loss rate: 0.53%  
-- Flow 3:  
Average throughput: 21.02 Mbit/s  
95th percentile per-packet one-way delay: 65.330 ms  
Loss rate: 0.44%

# Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-04-24 22:56:26

End at: 2018-04-24 22:56:56

Local clock offset: 0.644 ms

Remote clock offset: 0.02 ms

# Below is generated by plot.py at 2018-04-25 01:42:12

# Datalink statistics

-- Total of 3 flows:

Average throughput: 89.84 Mbit/s

95th percentile per-packet one-way delay: 65.106 ms

Loss rate: 1.00%

-- Flow 1:

Average throughput: 48.29 Mbit/s

95th percentile per-packet one-way delay: 64.018 ms

Loss rate: 0.88%

-- Flow 2:

Average throughput: 39.50 Mbit/s

95th percentile per-packet one-way delay: 66.592 ms

Loss rate: 1.09%

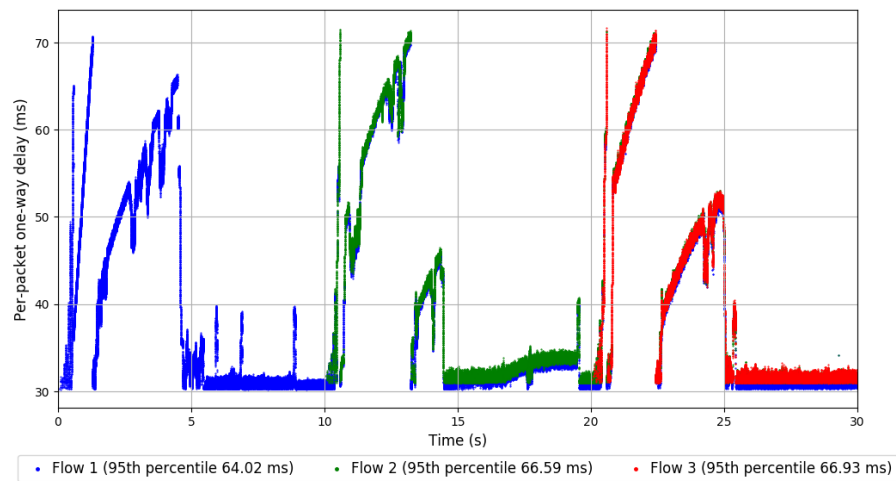
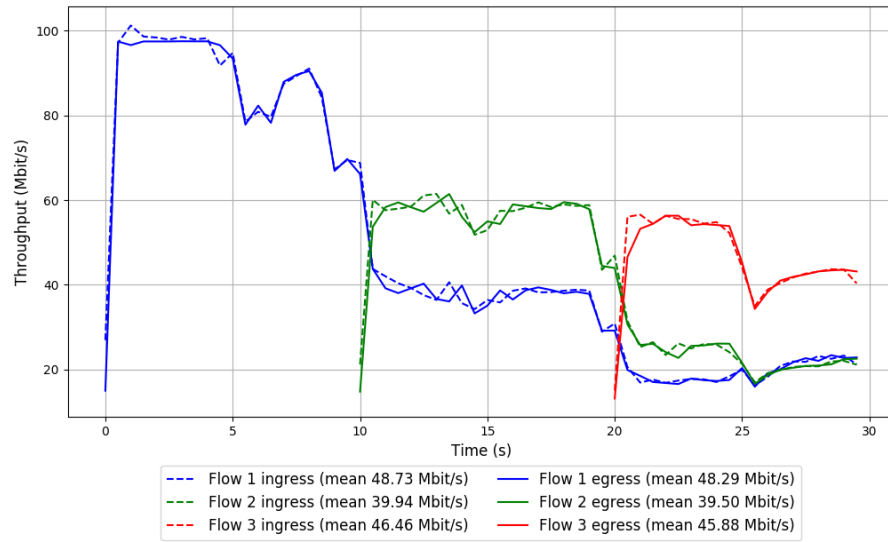
-- Flow 3:

Average throughput: 45.88 Mbit/s

95th percentile per-packet one-way delay: 66.933 ms

Loss rate: 1.24%

# Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-04-24 23:21:54

End at: 2018-04-24 23:22:24

Local clock offset: 0.659 ms

Remote clock offset: 0.324 ms

# Below is generated by plot.py at 2018-04-25 01:42:15

# Datalink statistics

-- Total of 3 flows:

Average throughput: 93.16 Mbit/s

95th percentile per-packet one-way delay: 67.700 ms

Loss rate: 0.63%

-- Flow 1:

Average throughput: 65.26 Mbit/s

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

Loss rate: 0.65%

-- Flow 2:

Average throughput: 31.23 Mbit/s

95th percentile per-packet one-way delay: 67.135 ms

Loss rate: 0.54%

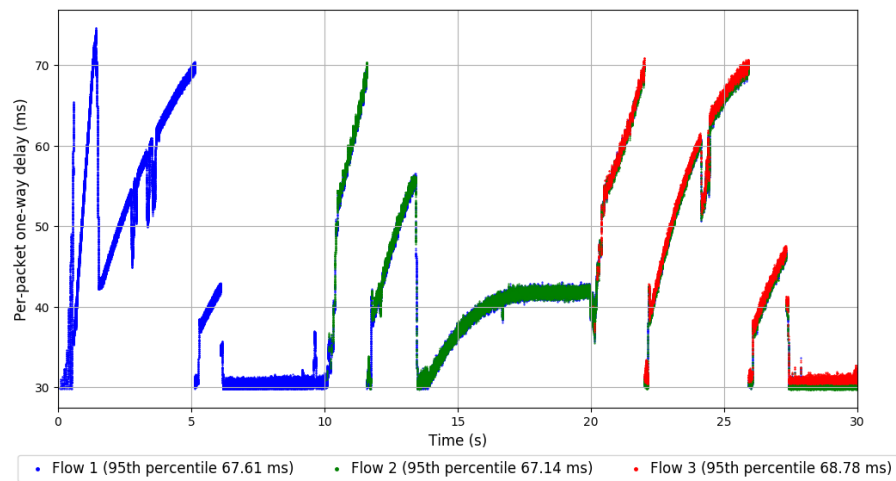
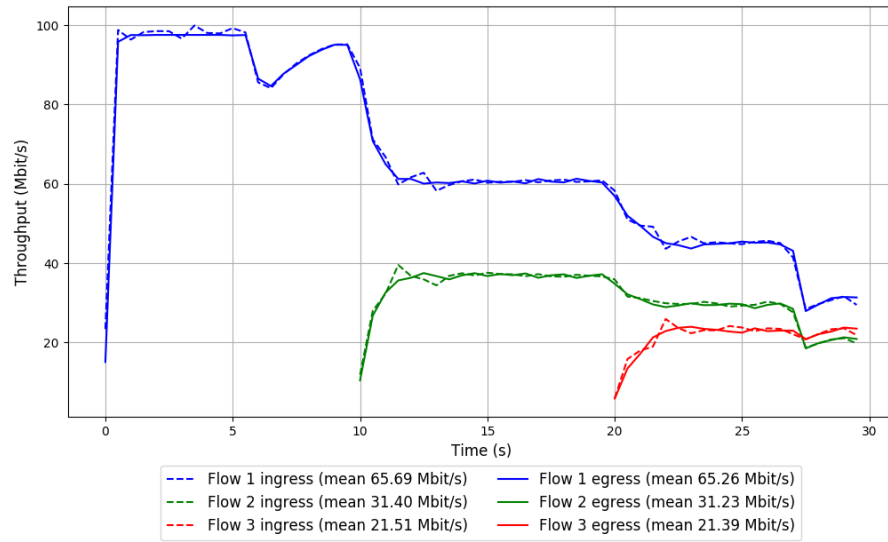
-- Flow 3:

Average throughput: 21.39 Mbit/s

95th percentile per-packet one-way delay: 68.785 ms

Loss rate: 0.65%

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





Run 7: Statistics of TCP Cubic

Start at: 2018-04-24 23:46:56

End at: 2018-04-24 23:47:26

Local clock offset: 0.694 ms

Remote clock offset: 0.735 ms

# Below is generated by plot.py at 2018-04-25 01:43:11

# Datalink statistics

-- Total of 3 flows:

Average throughput: 93.90 Mbit/s

95th percentile per-packet one-way delay: 63.873 ms

Loss rate: 0.40%

-- Flow 1:

Average throughput: 62.80 Mbit/s

95th percentile per-packet one-way delay: 64.017 ms

Loss rate: 0.31%

-- Flow 2:

Average throughput: 13.11 Mbit/s

95th percentile per-packet one-way delay: 51.716 ms

Loss rate: 0.40%

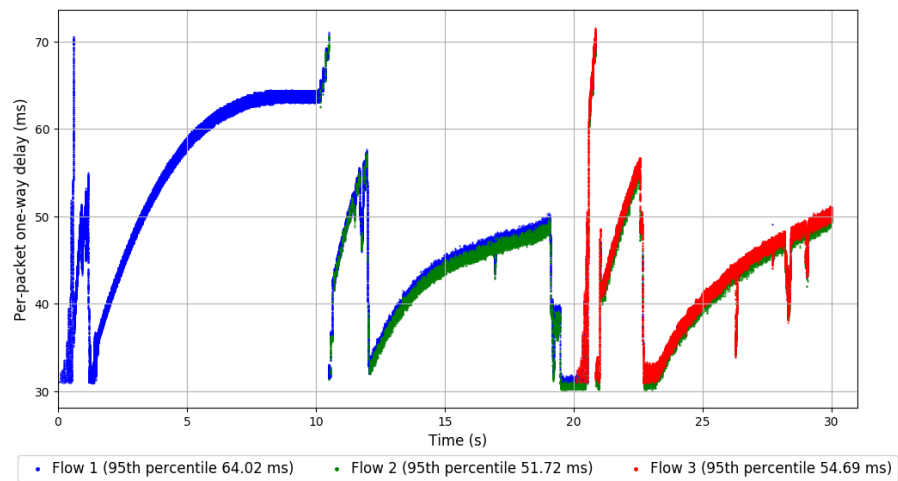
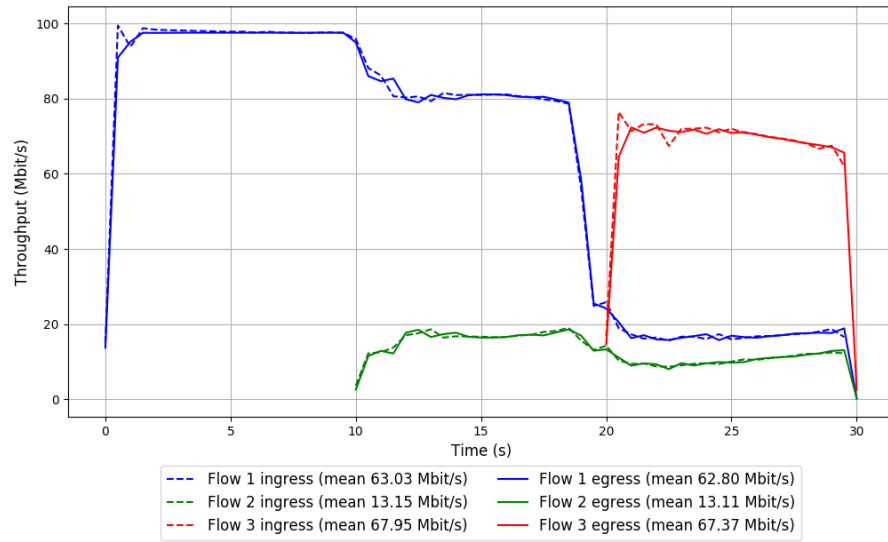
-- Flow 3:

Average throughput: 67.37 Mbit/s

95th percentile per-packet one-way delay: 54.685 ms

Loss rate: 0.66%

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



Run 8: Statistics of TCP Cubic

Start at: 2018-04-25 00:12:22

End at: 2018-04-25 00:12:52

Local clock offset: 0.963 ms

Remote clock offset: 0.419 ms

# Below is generated by plot.py at 2018-04-25 01:43:16

# Datalink statistics

-- Total of 3 flows:

Average throughput: 96.14 Mbit/s

95th percentile per-packet one-way delay: 66.013 ms

Loss rate: 0.69%

-- Flow 1:

Average throughput: 77.15 Mbit/s

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

Loss rate: 0.75%

-- Flow 2:

Average throughput: 21.21 Mbit/s

95th percentile per-packet one-way delay: 65.893 ms

Loss rate: 0.61%

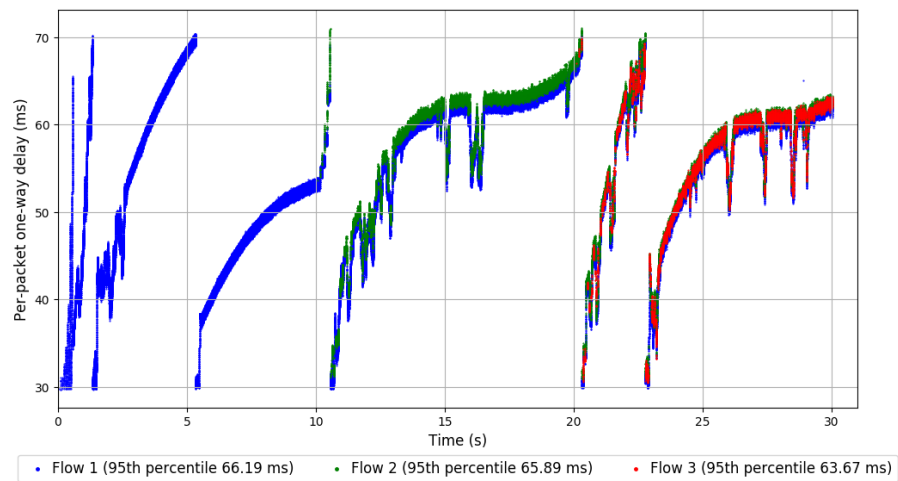
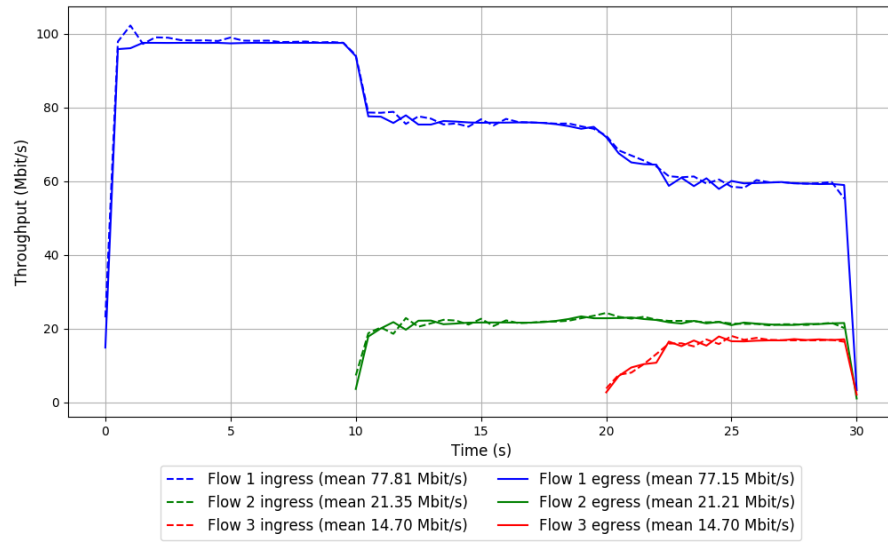
-- Flow 3:

Average throughput: 14.70 Mbit/s

95th percentile per-packet one-way delay: 63.669 ms

Loss rate: 0.03%

# Run 8: Report of TCP Cubic — Data Link

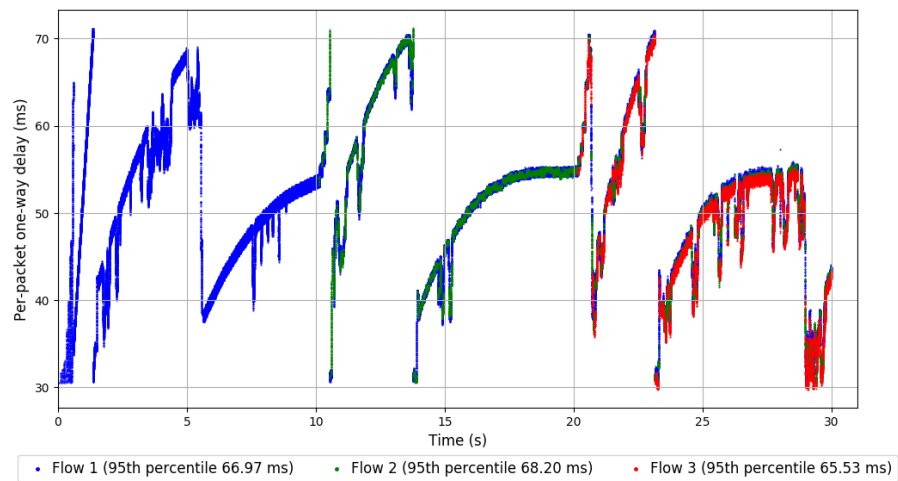
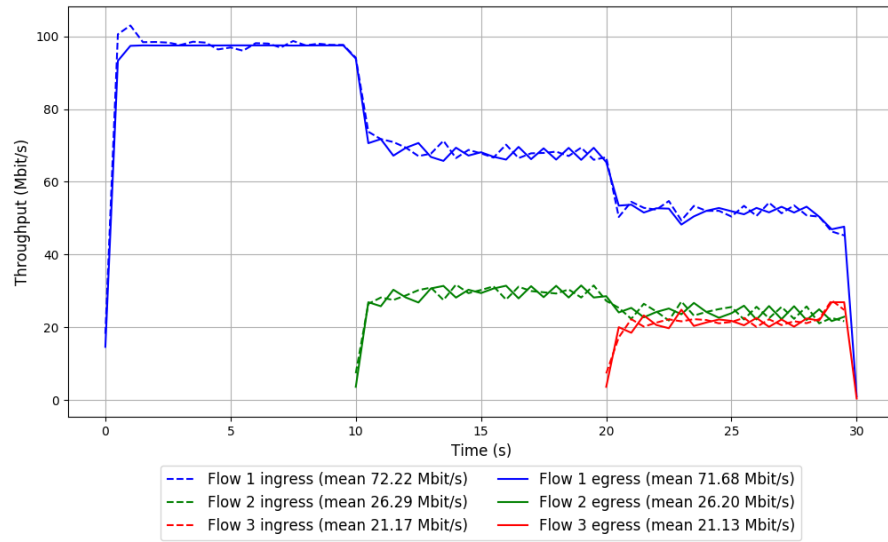


Run 9: Statistics of TCP Cubic

Start at: 2018-04-25 00:38:37  
End at: 2018-04-25 00:39:07  
Local clock offset: 0.933 ms  
Remote clock offset: -0.638 ms

# Below is generated by plot.py at 2018-04-25 01:43:36  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 96.11 Mbit/s  
95th percentile per-packet one-way delay: 67.066 ms  
Loss rate: 0.62%  
-- Flow 1:  
Average throughput: 71.68 Mbit/s  
95th percentile per-packet one-way delay: 66.971 ms  
Loss rate: 0.70%  
-- Flow 2:  
Average throughput: 26.20 Mbit/s  
95th percentile per-packet one-way delay: 68.202 ms  
Loss rate: 0.40%  
-- Flow 3:  
Average throughput: 21.13 Mbit/s  
95th percentile per-packet one-way delay: 65.532 ms  
Loss rate: 0.31%

# Run 9: Report of TCP Cubic — Data Link

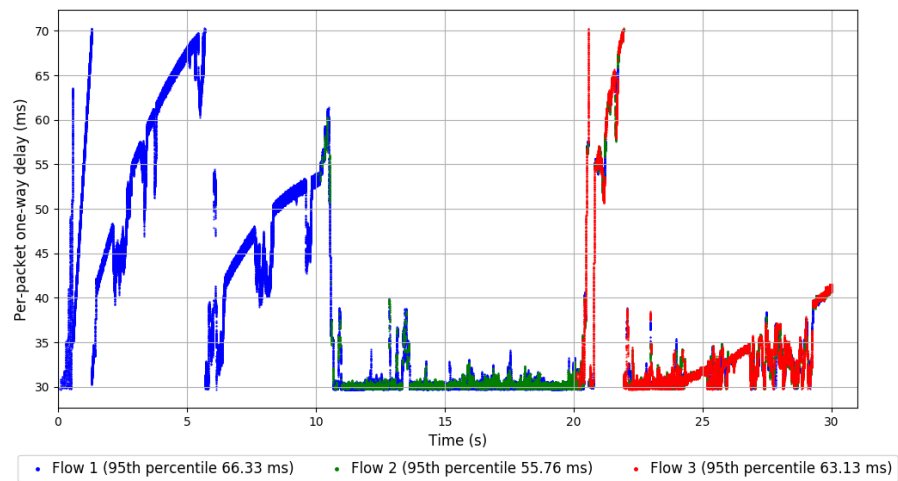
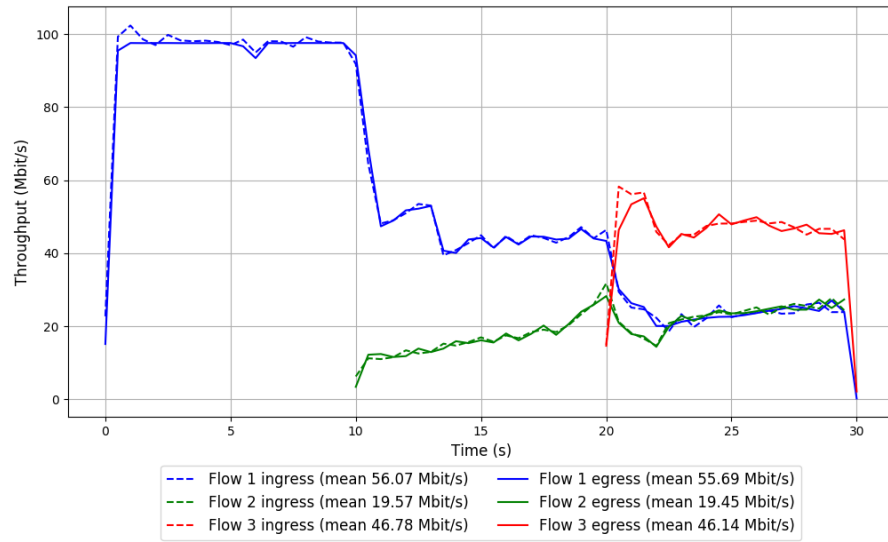


Run 10: Statistics of TCP Cubic

Start at: 2018-04-25 01:05:42  
End at: 2018-04-25 01:06:12  
Local clock offset: 1.15 ms  
Remote clock offset: -4.228 ms

# Below is generated by plot.py at 2018-04-25 01:43:36  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 83.93 Mbit/s  
95th percentile per-packet one-way delay: 65.449 ms  
Loss rate: 0.76%  
-- Flow 1:  
Average throughput: 55.69 Mbit/s  
95th percentile per-packet one-way delay: 66.335 ms  
Loss rate: 0.65%  
-- Flow 2:  
Average throughput: 19.45 Mbit/s  
95th percentile per-packet one-way delay: 55.757 ms  
Loss rate: 0.66%  
-- Flow 3:  
Average throughput: 46.14 Mbit/s  
95th percentile per-packet one-way delay: 63.128 ms  
Loss rate: 1.26%

# Run 10: Report of TCP Cubic — Data Link



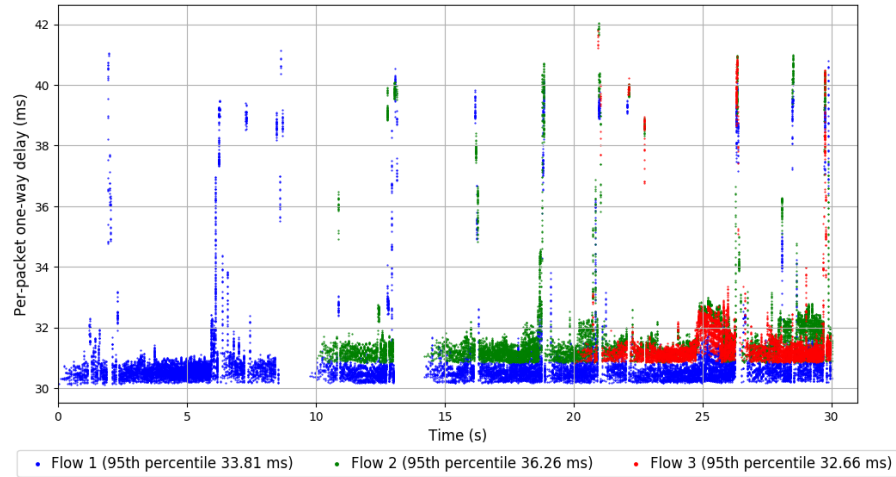
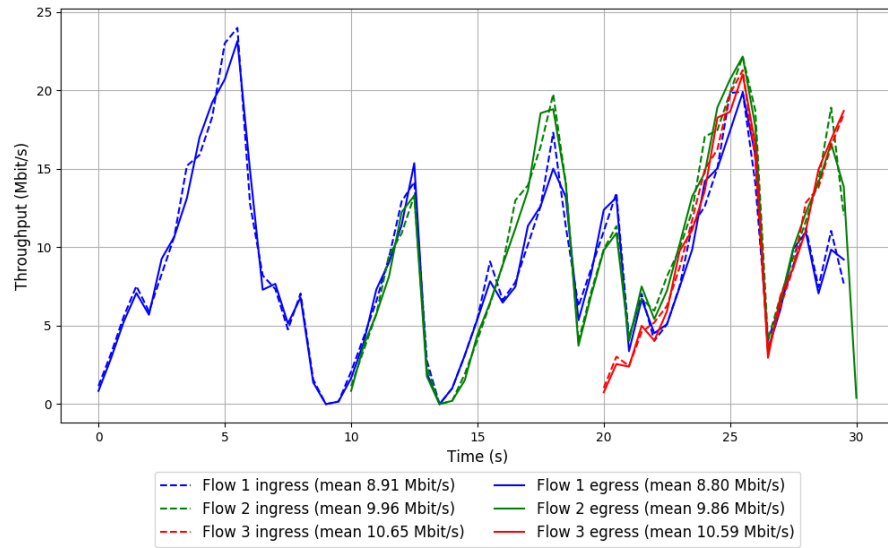


```
Run 1: Statistics of LEDBAT

Start at: 2018-04-24 21:22:44
End at: 2018-04-24 21:23:14
Local clock offset: 1.336 ms
Remote clock offset: 0.141 ms

# Below is generated by plot.py at 2018-04-25 01:43:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 18.87 Mbit/s
95th percentile per-packet one-way delay: 34.603 ms
Loss rate: 0.98%
-- Flow 1:
Average throughput: 8.80 Mbit/s
95th percentile per-packet one-way delay: 33.809 ms
Loss rate: 1.19%
-- Flow 2:
Average throughput: 9.86 Mbit/s
95th percentile per-packet one-way delay: 36.256 ms
Loss rate: 0.92%
-- Flow 3:
Average throughput: 10.59 Mbit/s
95th percentile per-packet one-way delay: 32.655 ms
Loss rate: 0.57%
```

# Run 1: Report of LEDBAT — Data Link

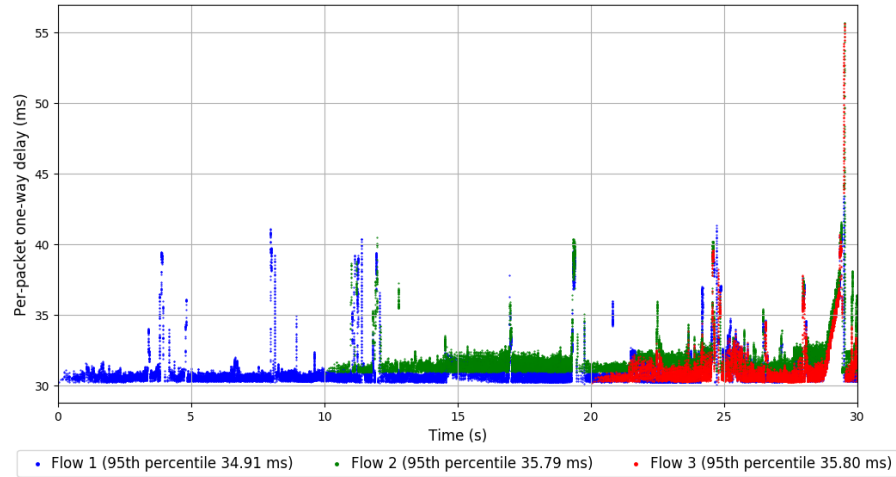
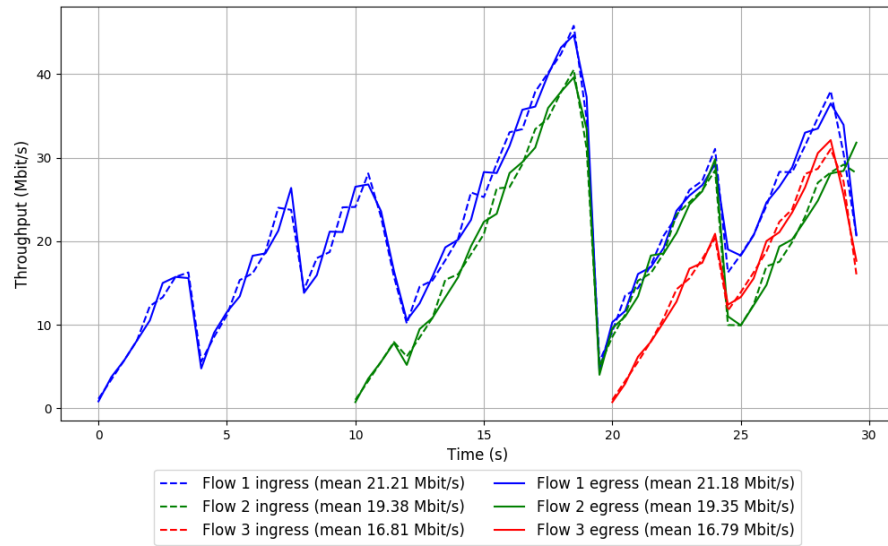


Run 2: Statistics of LEDBAT

Start at: 2018-04-24 21:47:50  
End at: 2018-04-24 21:48:20  
Local clock offset: 0.621 ms  
Remote clock offset: -0.266 ms

# Below is generated by plot.py at 2018-04-25 01:43:36  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 39.64 Mbit/s  
95th percentile per-packet one-way delay: 35.454 ms  
Loss rate: 0.12%  
-- Flow 1:  
Average throughput: 21.18 Mbit/s  
95th percentile per-packet one-way delay: 34.914 ms  
Loss rate: 0.12%  
-- Flow 2:  
Average throughput: 19.35 Mbit/s  
95th percentile per-packet one-way delay: 35.787 ms  
Loss rate: 0.12%  
-- Flow 3:  
Average throughput: 16.79 Mbit/s  
95th percentile per-packet one-way delay: 35.795 ms  
Loss rate: 0.13%

## Run 2: Report of LEDBAT — Data Link

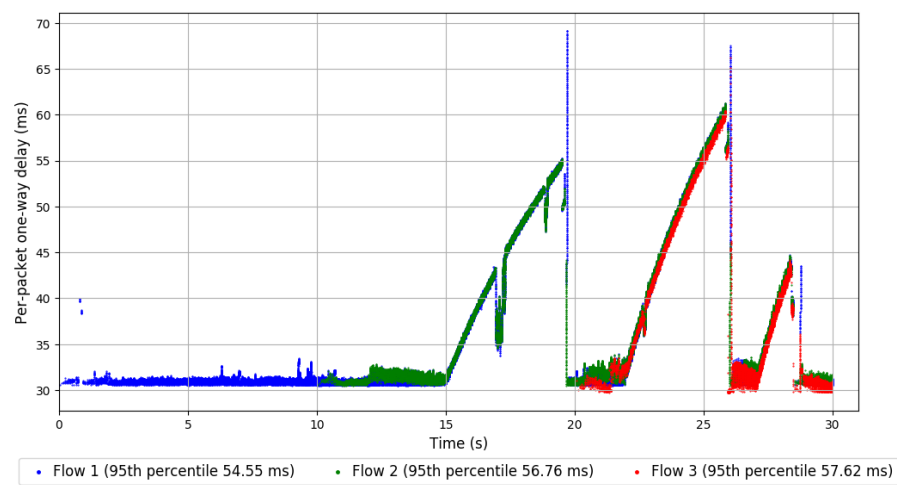
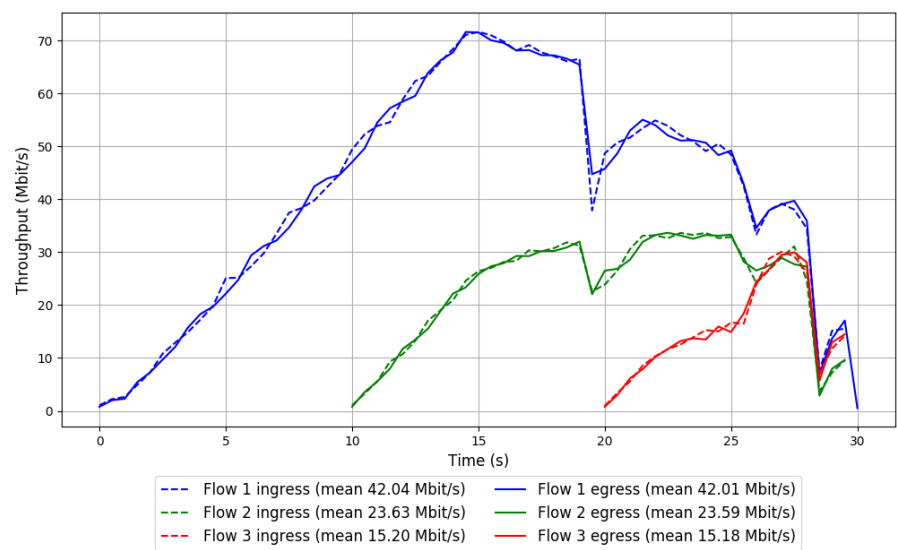


Run 3: Statistics of LEDBAT

Start at: 2018-04-24 22:13:29  
End at: 2018-04-24 22:13:59  
Local clock offset: 0.308 ms  
Remote clock offset: -0.076 ms

# Below is generated by plot.py at 2018-04-25 01:43:36  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 62.72 Mbit/s  
95th percentile per-packet one-way delay: 55.708 ms  
Loss rate: 0.11%  
-- Flow 1:  
Average throughput: 42.01 Mbit/s  
95th percentile per-packet one-way delay: 54.551 ms  
Loss rate: 0.07%  
-- Flow 2:  
Average throughput: 23.59 Mbit/s  
95th percentile per-packet one-way delay: 56.763 ms  
Loss rate: 0.17%  
-- Flow 3:  
Average throughput: 15.18 Mbit/s  
95th percentile per-packet one-way delay: 57.621 ms  
Loss rate: 0.15%

Run 3: Report of LEDBAT — Data Link

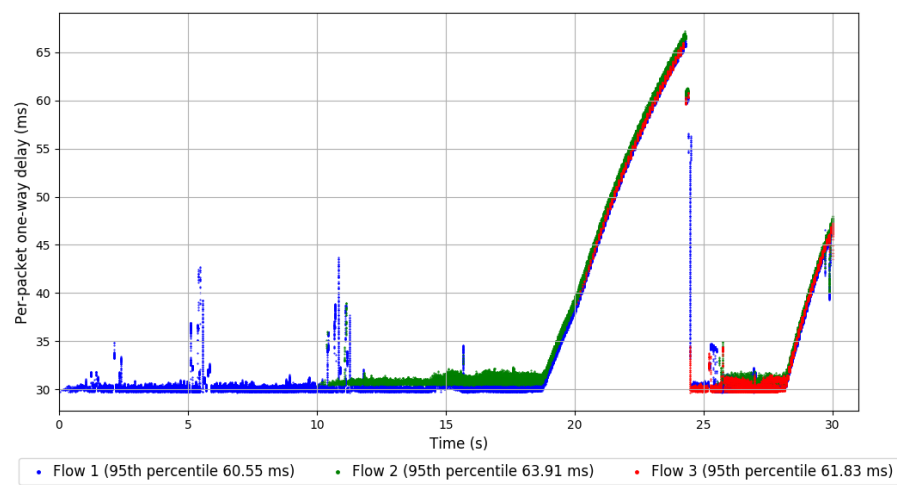
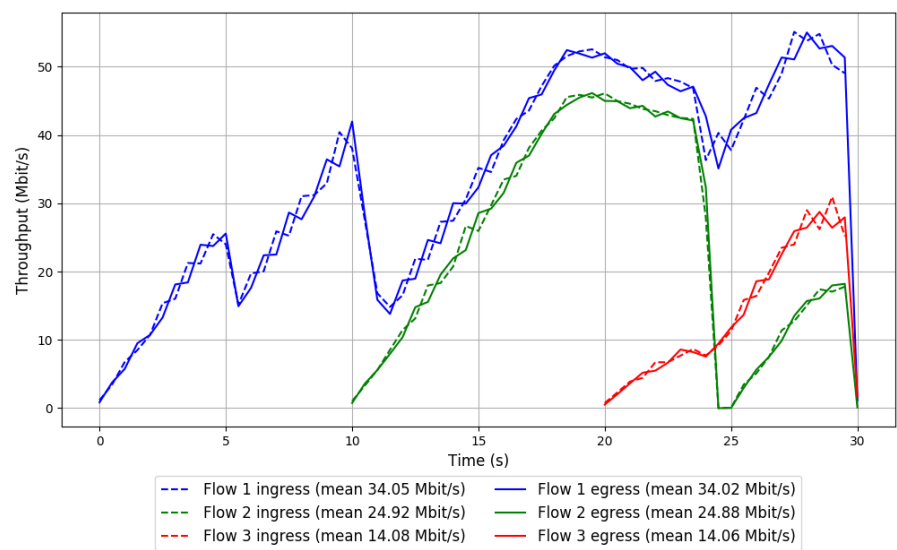


Run 4: Statistics of LEDBAT

Start at: 2018-04-24 22:37:37  
End at: 2018-04-24 22:38:07  
Local clock offset: 0.156 ms  
Remote clock offset: -0.269 ms

# Below is generated by plot.py at 2018-04-25 01:43:36  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 55.24 Mbit/s  
95th percentile per-packet one-way delay: 62.209 ms  
Loss rate: 0.05%  
-- Flow 1:  
Average throughput: 34.02 Mbit/s  
95th percentile per-packet one-way delay: 60.546 ms  
Loss rate: 0.04%  
-- Flow 2:  
Average throughput: 24.88 Mbit/s  
95th percentile per-packet one-way delay: 63.911 ms  
Loss rate: 0.07%  
-- Flow 3:  
Average throughput: 14.06 Mbit/s  
95th percentile per-packet one-way delay: 61.825 ms  
Loss rate: 0.10%

Run 4: Report of LEDBAT — Data Link



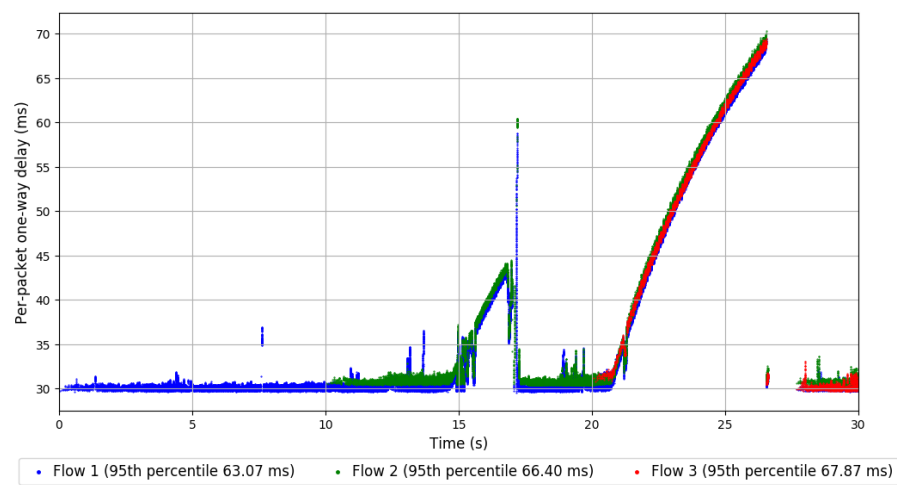
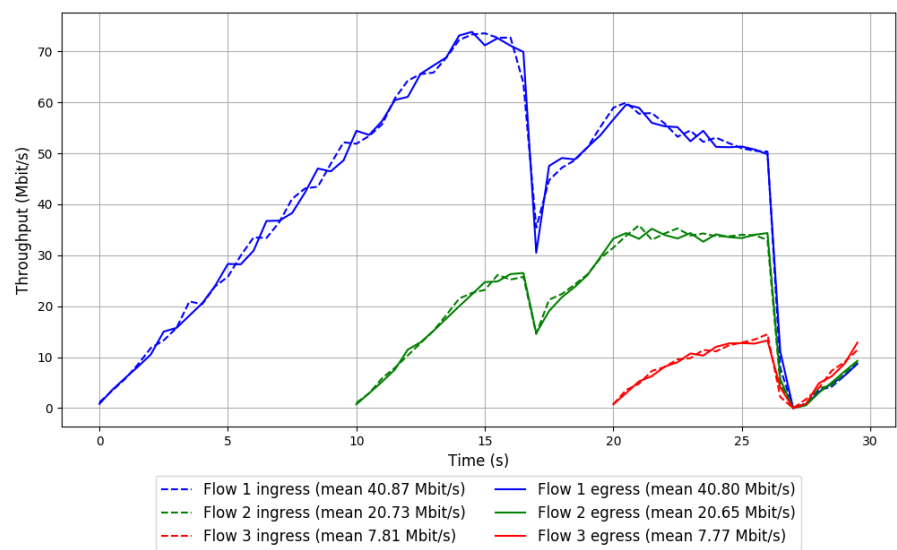


Run 5: Statistics of LEDBAT

Start at: 2018-04-24 23:02:15  
End at: 2018-04-24 23:02:45  
Local clock offset: 0.695 ms  
Remote clock offset: -0.522 ms

# Below is generated by plot.py at 2018-04-25 01:43:36  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 57.09 Mbit/s  
95th percentile per-packet one-way delay: 64.923 ms  
Loss rate: 0.23%  
-- Flow 1:  
Average throughput: 40.80 Mbit/s  
95th percentile per-packet one-way delay: 63.068 ms  
Loss rate: 0.16%  
-- Flow 2:  
Average throughput: 20.65 Mbit/s  
95th percentile per-packet one-way delay: 66.400 ms  
Loss rate: 0.39%  
-- Flow 3:  
Average throughput: 7.77 Mbit/s  
95th percentile per-packet one-way delay: 67.871 ms  
Loss rate: 0.51%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-04-24 23:27:44

End at: 2018-04-24 23:28:15

Local clock offset: 0.779 ms

Remote clock offset: 0.418 ms

# Below is generated by plot.py at 2018-04-25 01:43:48

# Datalink statistics

-- Total of 3 flows:

Average throughput: 55.60 Mbit/s

95th percentile per-packet one-way delay: 47.055 ms

Loss rate: 0.11%

-- Flow 1:

Average throughput: 36.89 Mbit/s

95th percentile per-packet one-way delay: 47.177 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 17.93 Mbit/s

95th percentile per-packet one-way delay: 51.734 ms

Loss rate: 0.36%

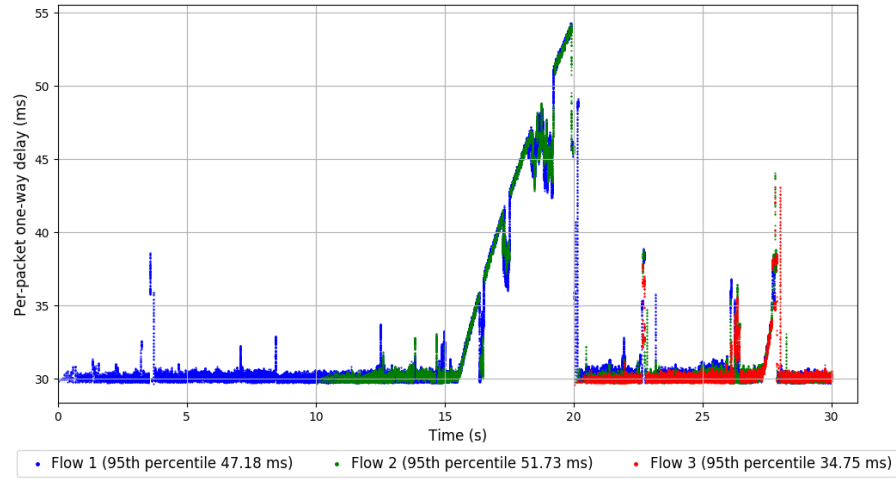
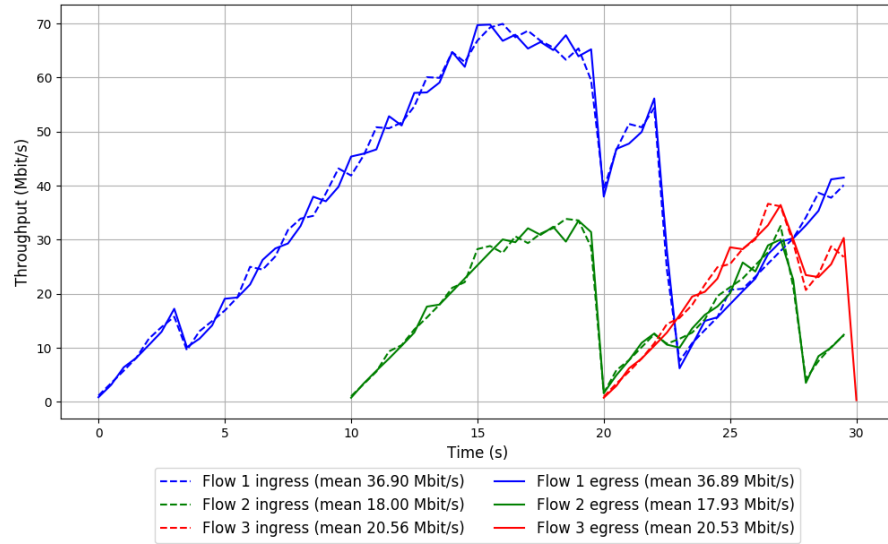
-- Flow 3:

Average throughput: 20.53 Mbit/s

95th percentile per-packet one-way delay: 34.749 ms

Loss rate: 0.11%

# Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-04-24 23:52:46

End at: 2018-04-24 23:53:16

Local clock offset: 0.818 ms

Remote clock offset: 0.237 ms

# Below is generated by plot.py at 2018-04-25 01:44:10

# Datalink statistics

-- Total of 3 flows:

Average throughput: 58.90 Mbit/s

95th percentile per-packet one-way delay: 54.087 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 38.69 Mbit/s

95th percentile per-packet one-way delay: 54.398 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 20.98 Mbit/s

95th percentile per-packet one-way delay: 55.041 ms

Loss rate: 0.12%

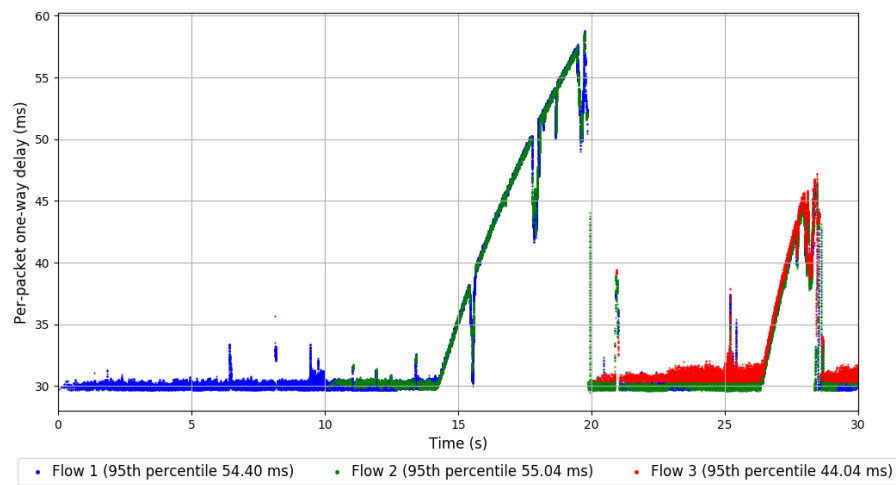
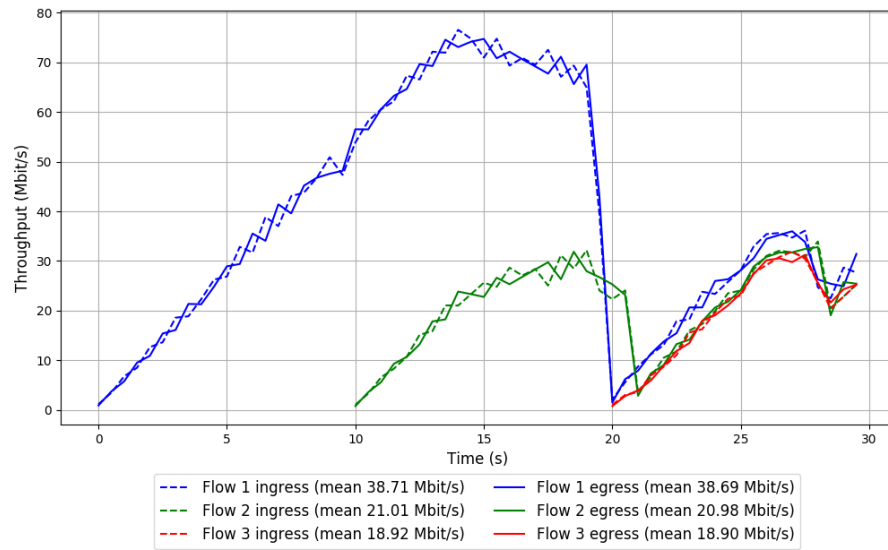
-- Flow 3:

Average throughput: 18.90 Mbit/s

95th percentile per-packet one-way delay: 44.044 ms

Loss rate: 0.08%

# Run 7: Report of LEDBAT — Data Link

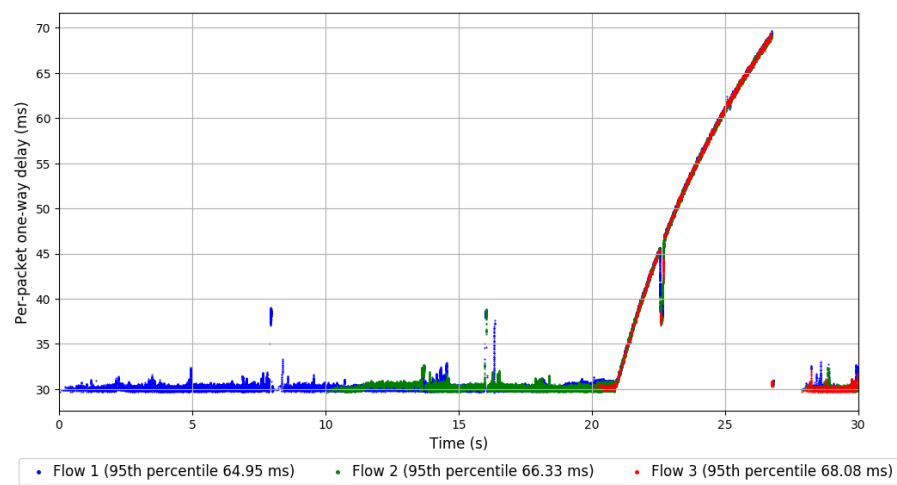
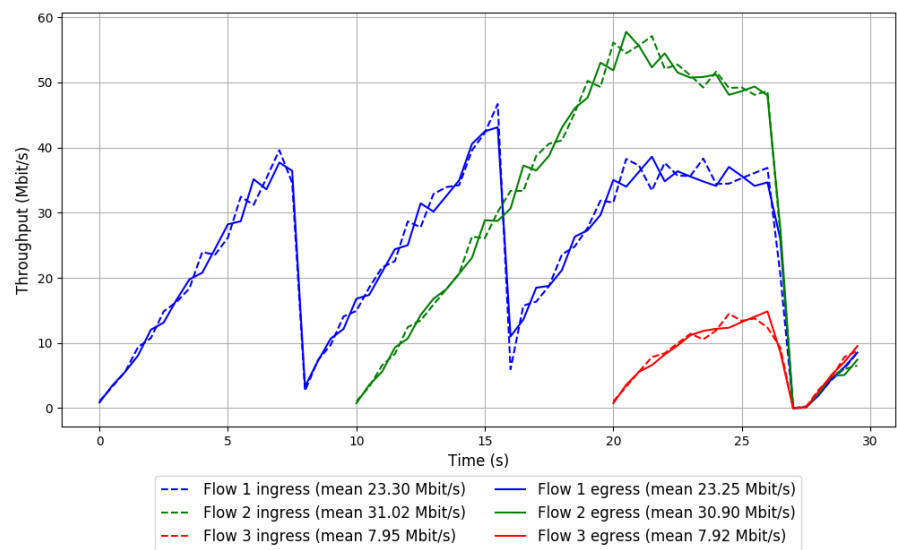


Run 8: Statistics of LEDBAT

Start at: 2018-04-25 00:18:31  
End at: 2018-04-25 00:19:01  
Local clock offset: 1.069 ms  
Remote clock offset: -0.112 ms

# Below is generated by plot.py at 2018-04-25 01:44:10  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 46.43 Mbit/s  
95th percentile per-packet one-way delay: 66.041 ms  
Loss rate: 0.31%  
-- Flow 1:  
Average throughput: 23.25 Mbit/s  
95th percentile per-packet one-way delay: 64.946 ms  
Loss rate: 0.21%  
-- Flow 2:  
Average throughput: 30.90 Mbit/s  
95th percentile per-packet one-way delay: 66.333 ms  
Loss rate: 0.39%  
-- Flow 3:  
Average throughput: 7.92 Mbit/s  
95th percentile per-packet one-way delay: 68.080 ms  
Loss rate: 0.45%

Run 8: Report of LEDBAT — Data Link



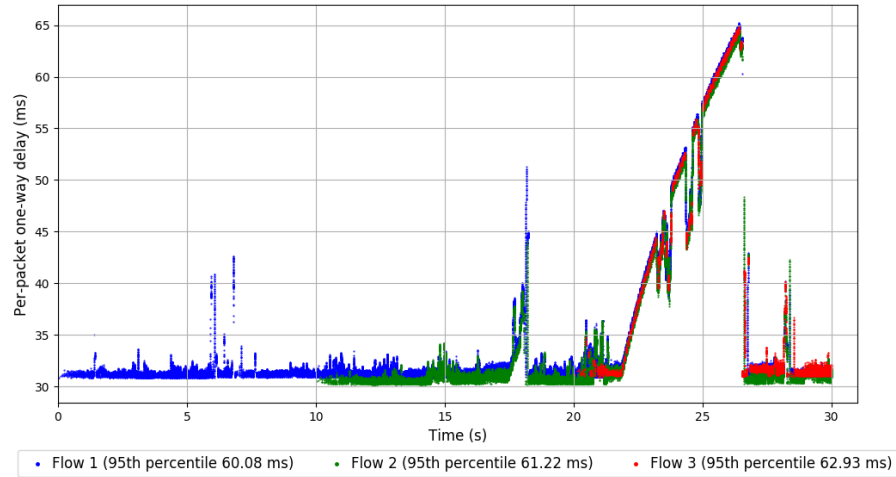
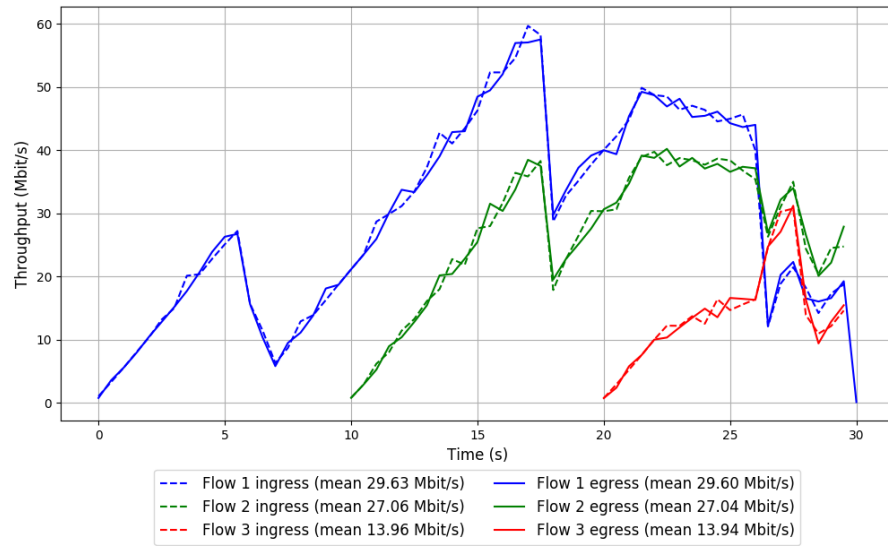


Run 9: Statistics of LEDBAT

Start at: 2018-04-25 00:44:54  
End at: 2018-04-25 00:45:24  
Local clock offset: 1.078 ms  
Remote clock offset: -0.387 ms

# Below is generated by plot.py at 2018-04-25 01:44:10  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 52.23 Mbit/s  
95th percentile per-packet one-way delay: 61.011 ms  
Loss rate: 0.09%  
-- Flow 1:  
Average throughput: 29.60 Mbit/s  
95th percentile per-packet one-way delay: 60.076 ms  
Loss rate: 0.10%  
-- Flow 2:  
Average throughput: 27.04 Mbit/s  
95th percentile per-packet one-way delay: 61.216 ms  
Loss rate: 0.06%  
-- Flow 3:  
Average throughput: 13.94 Mbit/s  
95th percentile per-packet one-way delay: 62.932 ms  
Loss rate: 0.11%

## Run 9: Report of LEDBAT — Data Link

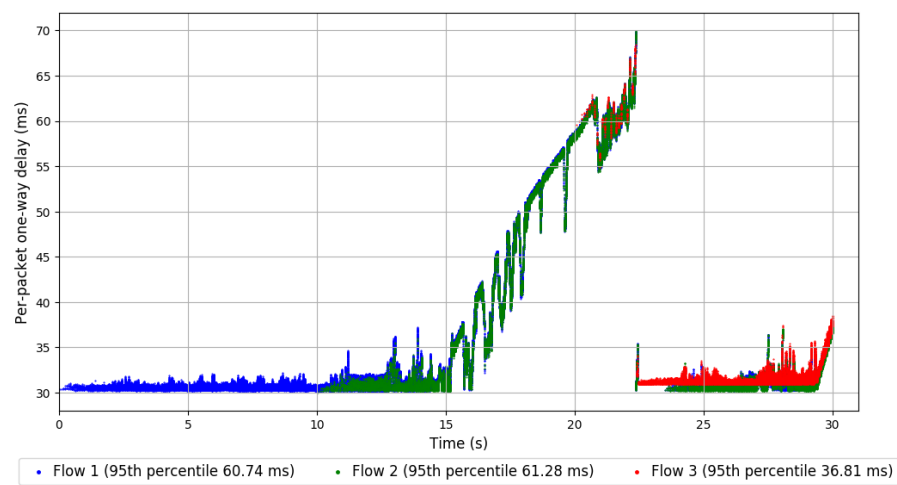
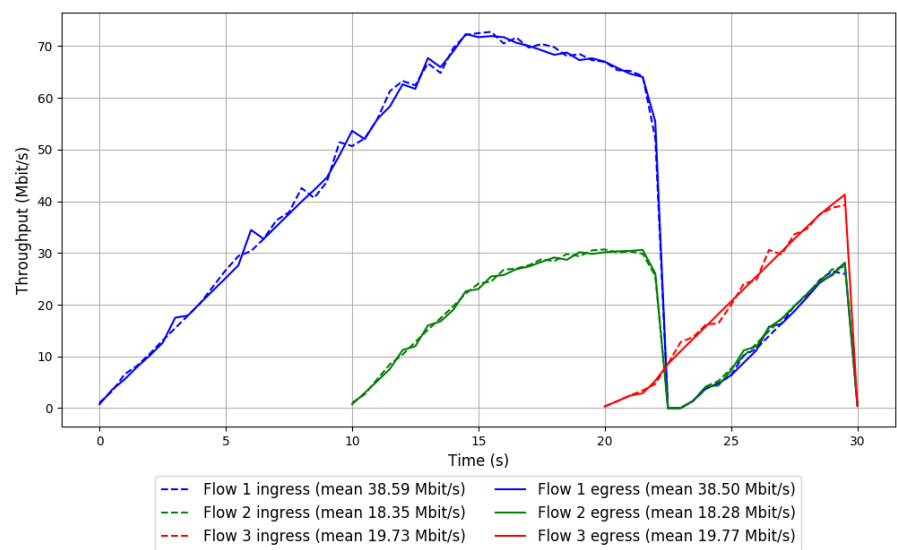


Run 10: Statistics of LEDBAT

Start at: 2018-04-25 01:12:24  
End at: 2018-04-25 01:12:54  
Local clock offset: 1.075 ms  
Remote clock offset: -4.243 ms

# Below is generated by plot.py at 2018-04-25 01:44:12  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 57.22 Mbit/s  
95th percentile per-packet one-way delay: 60.762 ms  
Loss rate: 0.21%  
-- Flow 1:  
Average throughput: 38.50 Mbit/s  
95th percentile per-packet one-way delay: 60.745 ms  
Loss rate: 0.21%  
-- Flow 2:  
Average throughput: 18.28 Mbit/s  
95th percentile per-packet one-way delay: 61.285 ms  
Loss rate: 0.34%  
-- Flow 3:  
Average throughput: 19.77 Mbit/s  
95th percentile per-packet one-way delay: 36.806 ms  
Loss rate: 0.00%

Run 10: Report of LEDBAT — Data Link

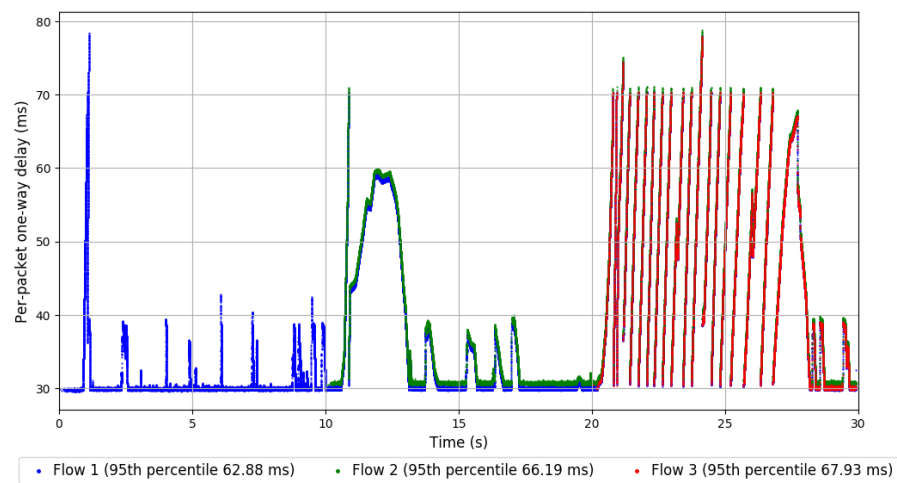
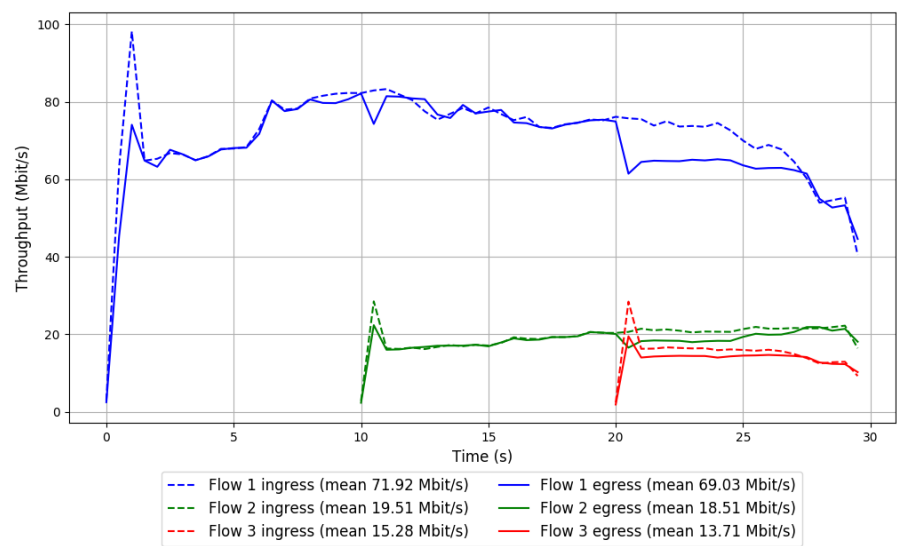


Run 1: Statistics of PCC-Allegro

Start at: 2018-04-24 21:21:15  
End at: 2018-04-24 21:21:45  
Local clock offset: 1.332 ms  
Remote clock offset: -0.264 ms

# Below is generated by plot.py at 2018-04-25 01:44:54  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 85.86 Mbit/s  
95th percentile per-packet one-way delay: 64.239 ms  
Loss rate: 4.52%  
-- Flow 1:  
Average throughput: 69.03 Mbit/s  
95th percentile per-packet one-way delay: 62.875 ms  
Loss rate: 4.00%  
-- Flow 2:  
Average throughput: 18.51 Mbit/s  
95th percentile per-packet one-way delay: 66.190 ms  
Loss rate: 5.15%  
-- Flow 3:  
Average throughput: 13.71 Mbit/s  
95th percentile per-packet one-way delay: 67.930 ms  
Loss rate: 10.25%

Run 1: Report of PCC-Allegro — Data Link

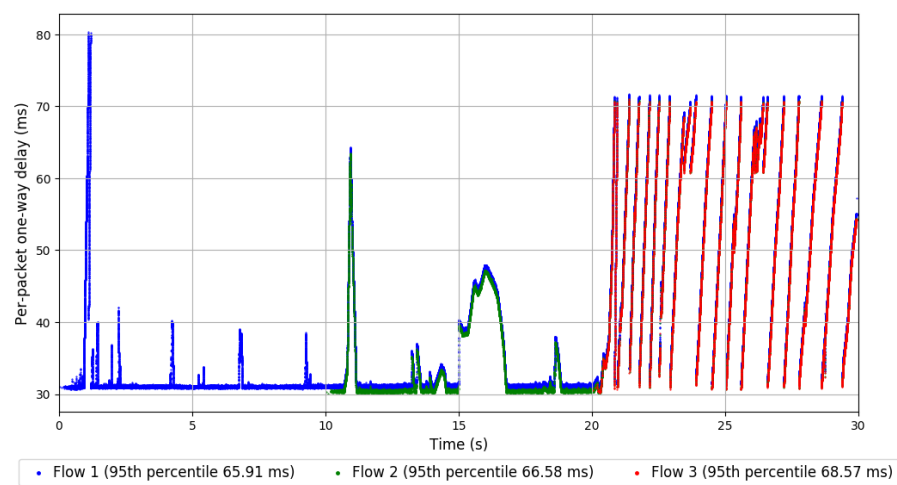
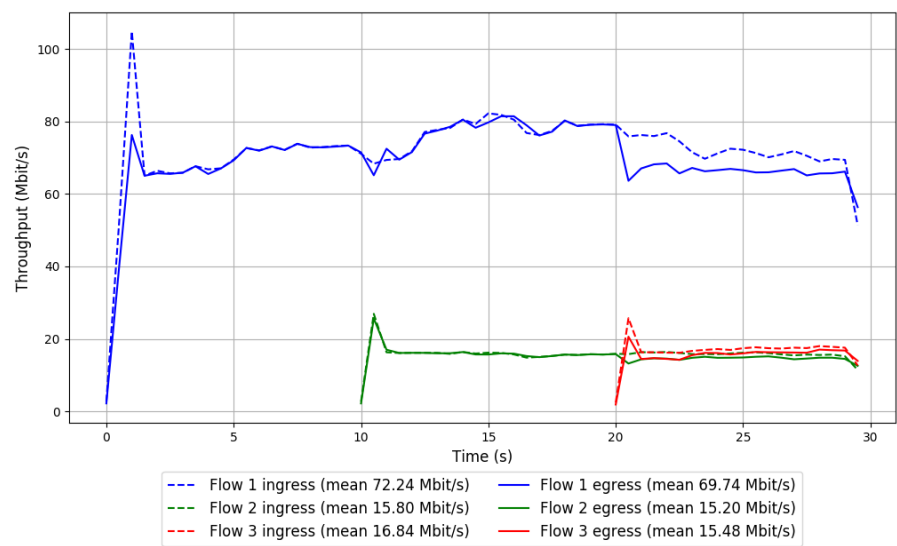


Run 2: Statistics of PCC-Allegro

Start at: 2018-04-24 21:46:25  
End at: 2018-04-24 21:46:55  
Local clock offset: 0.735 ms  
Remote clock offset: -0.264 ms

# Below is generated by plot.py at 2018-04-25 01:44:59  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 84.96 Mbit/s  
95th percentile per-packet one-way delay: 66.413 ms  
Loss rate: 3.70%  
-- Flow 1:  
Average throughput: 69.74 Mbit/s  
95th percentile per-packet one-way delay: 65.909 ms  
Loss rate: 3.38%  
-- Flow 2:  
Average throughput: 15.20 Mbit/s  
95th percentile per-packet one-way delay: 66.578 ms  
Loss rate: 3.67%  
-- Flow 3:  
Average throughput: 15.48 Mbit/s  
95th percentile per-packet one-way delay: 68.574 ms  
Loss rate: 7.86%

Run 2: Report of PCC-Allegro — Data Link





Run 3: Statistics of PCC-Allegro

Start at: 2018-04-24 22:11:56

End at: 2018-04-24 22:12:26

Local clock offset: 0.324 ms

Remote clock offset: 0.35 ms

# Below is generated by plot.py at 2018-04-25 01:45:03

# Datalink statistics

-- Total of 3 flows:

Average throughput: 85.73 Mbit/s

95th percentile per-packet one-way delay: 53.131 ms

Loss rate: 1.25%

-- Flow 1:

Average throughput: 72.02 Mbit/s

95th percentile per-packet one-way delay: 51.733 ms

Loss rate: 1.32%

-- Flow 2:

Average throughput: 18.39 Mbit/s

95th percentile per-packet one-way delay: 55.138 ms

Loss rate: 0.80%

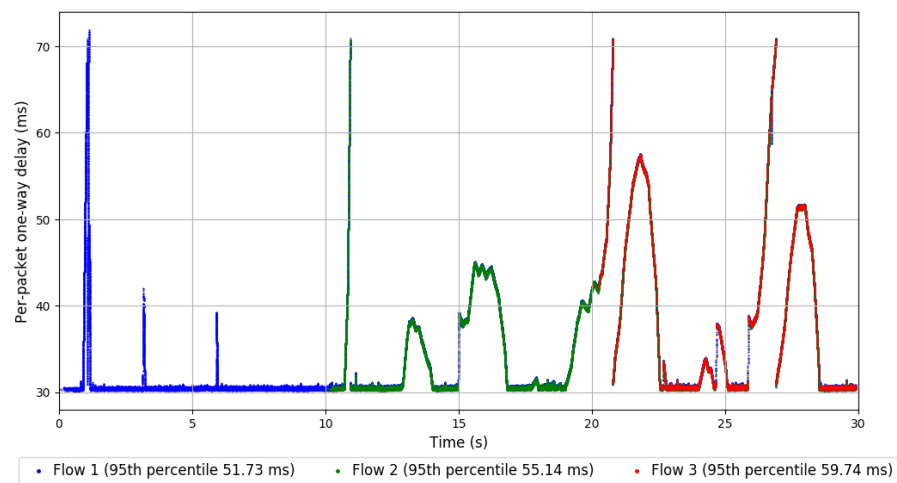
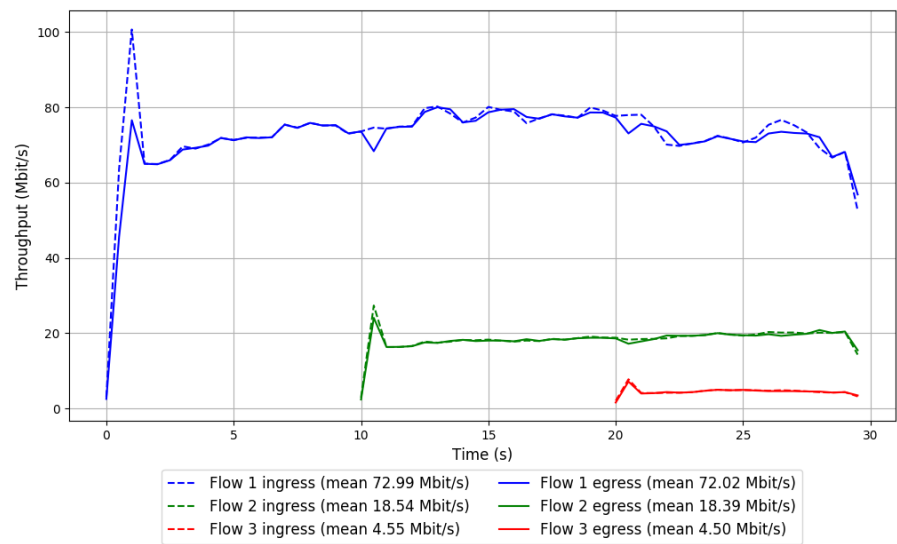
-- Flow 3:

Average throughput: 4.50 Mbit/s

95th percentile per-packet one-way delay: 59.736 ms

Loss rate: 1.32%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2018-04-24 22:36:15

End at: 2018-04-24 22:36:45

Local clock offset: 0.247 ms

Remote clock offset: 0.256 ms

# Below is generated by plot.py at 2018-04-25 01:45:22

# Datalink statistics

-- Total of 3 flows:

Average throughput: 90.04 Mbit/s

95th percentile per-packet one-way delay: 64.989 ms

Loss rate: 1.41%

-- Flow 1:

Average throughput: 81.27 Mbit/s

95th percentile per-packet one-way delay: 64.671 ms

Loss rate: 1.44%

-- Flow 2:

Average throughput: 9.02 Mbit/s

95th percentile per-packet one-way delay: 67.090 ms

Loss rate: 1.35%

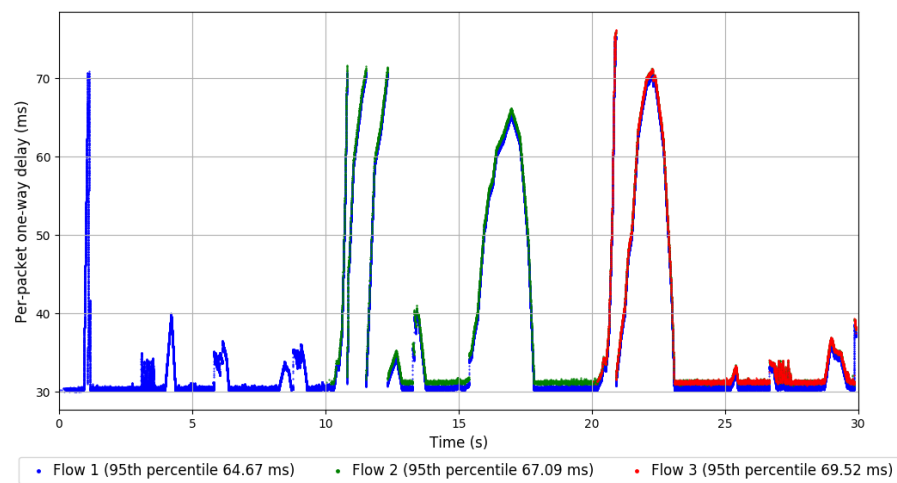
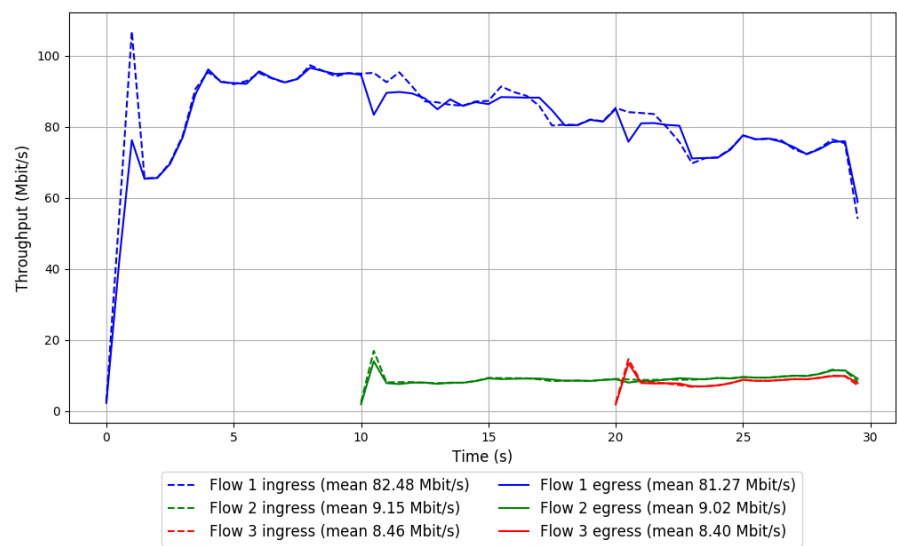
-- Flow 3:

Average throughput: 8.40 Mbit/s

95th percentile per-packet one-way delay: 69.524 ms

Loss rate: 0.62%

Run 4: Report of PCC-Allegro — Data Link

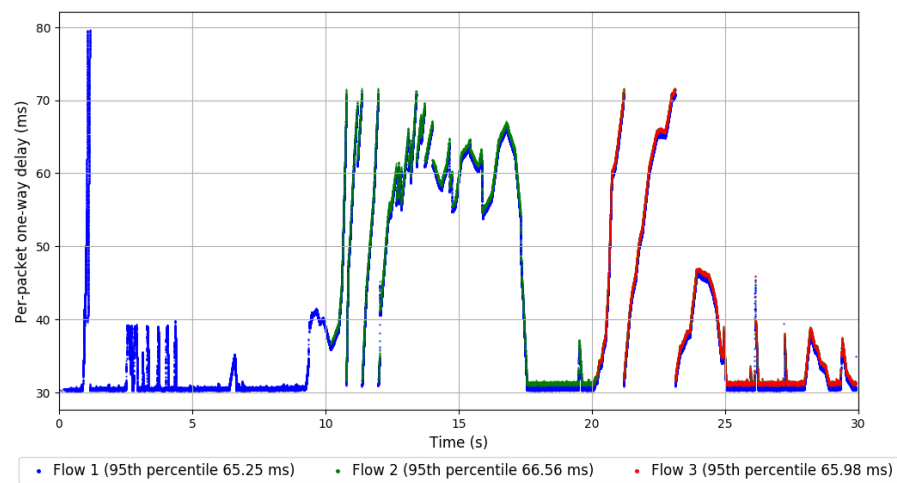
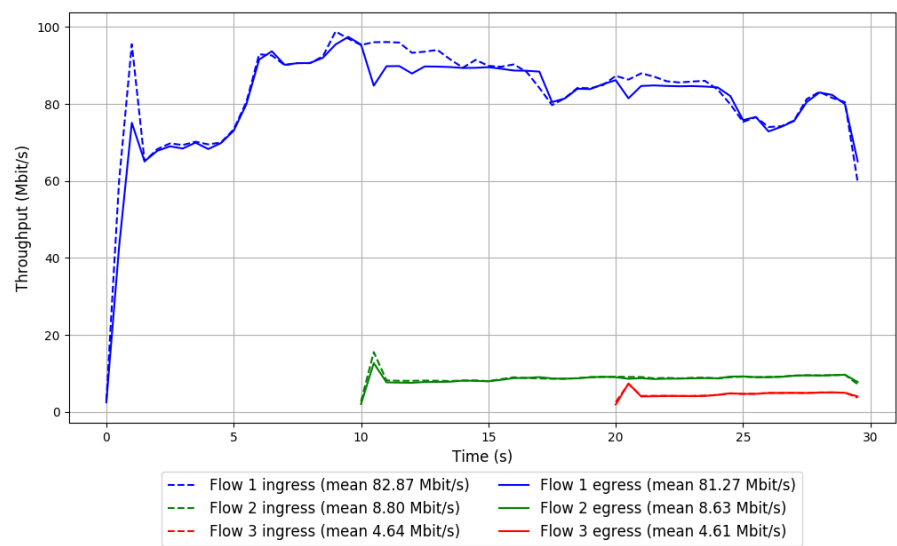


Run 5: Statistics of PCC-Allegro

Start at: 2018-04-24 23:00:44  
End at: 2018-04-24 23:01:14  
Local clock offset: 0.615 ms  
Remote clock offset: -0.023 ms

# Below is generated by plot.py at 2018-04-25 01:45:29  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 88.53 Mbit/s  
95th percentile per-packet one-way delay: 65.415 ms  
Loss rate: 1.90%  
-- Flow 1:  
Average throughput: 81.27 Mbit/s  
95th percentile per-packet one-way delay: 65.253 ms  
Loss rate: 1.92%  
-- Flow 2:  
Average throughput: 8.63 Mbit/s  
95th percentile per-packet one-way delay: 66.564 ms  
Loss rate: 2.01%  
-- Flow 3:  
Average throughput: 4.61 Mbit/s  
95th percentile per-packet one-way delay: 65.978 ms  
Loss rate: 0.75%

Run 5: Report of PCC-Allegro — Data Link



Run 6: Statistics of PCC-Allegro

Start at: 2018-04-24 23:26:22

End at: 2018-04-24 23:26:52

Local clock offset: 0.768 ms

Remote clock offset: 0.539 ms

# Below is generated by plot.py at 2018-04-25 01:45:29

# Datalink statistics

-- Total of 3 flows:

Average throughput: 65.77 Mbit/s

95th percentile per-packet one-way delay: 66.985 ms

Loss rate: 1.57%

-- Flow 1:

Average throughput: 44.12 Mbit/s

95th percentile per-packet one-way delay: 66.681 ms

Loss rate: 1.41%

-- Flow 2:

Average throughput: 28.95 Mbit/s

95th percentile per-packet one-way delay: 67.151 ms

Loss rate: 1.58%

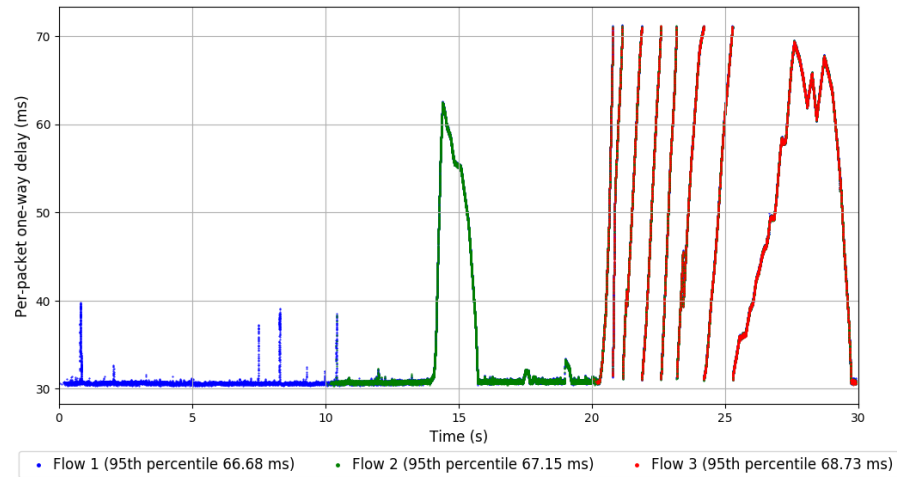
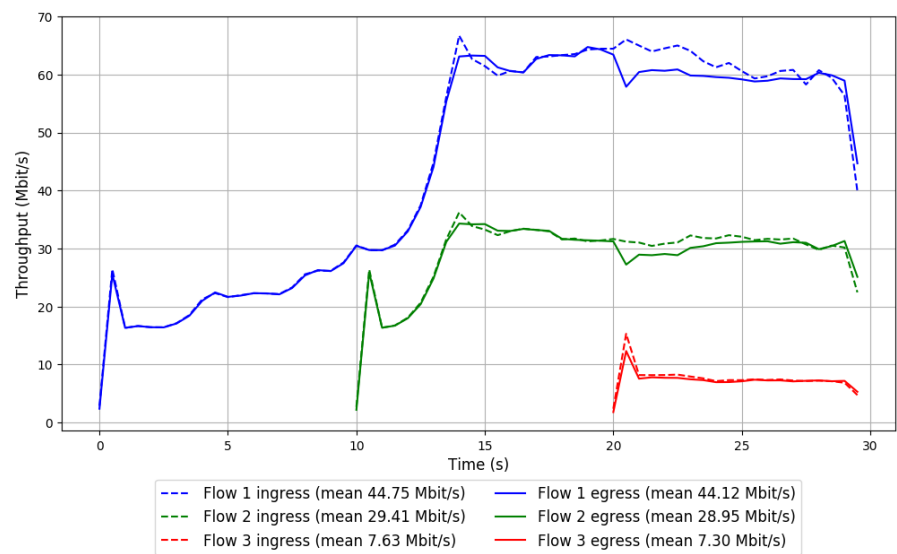
-- Flow 3:

Average throughput: 7.30 Mbit/s

95th percentile per-packet one-way delay: 68.731 ms

Loss rate: 4.37%

Run 6: Report of PCC-Allegro — Data Link





Run 7: Statistics of PCC-Allegro

Start at: 2018-04-24 23:51:18

End at: 2018-04-24 23:51:48

Local clock offset: 0.803 ms

Remote clock offset: 0.291 ms

# Below is generated by plot.py at 2018-04-25 01:45:43

# Datalink statistics

-- Total of 3 flows:

Average throughput: 91.14 Mbit/s

95th percentile per-packet one-way delay: 67.271 ms

Loss rate: 6.48%

-- Flow 1:

Average throughput: 80.37 Mbit/s

95th percentile per-packet one-way delay: 66.971 ms

Loss rate: 5.83%

-- Flow 2:

Average throughput: 9.26 Mbit/s

95th percentile per-packet one-way delay: 68.449 ms

Loss rate: 8.47%

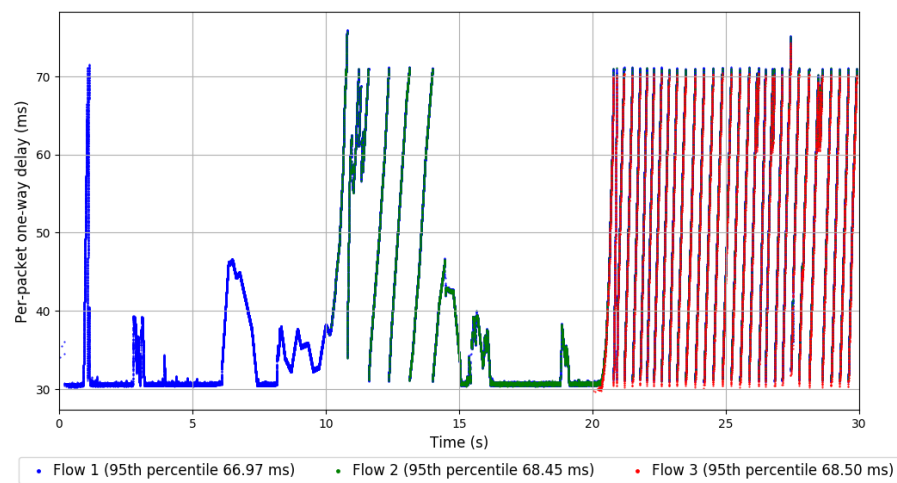
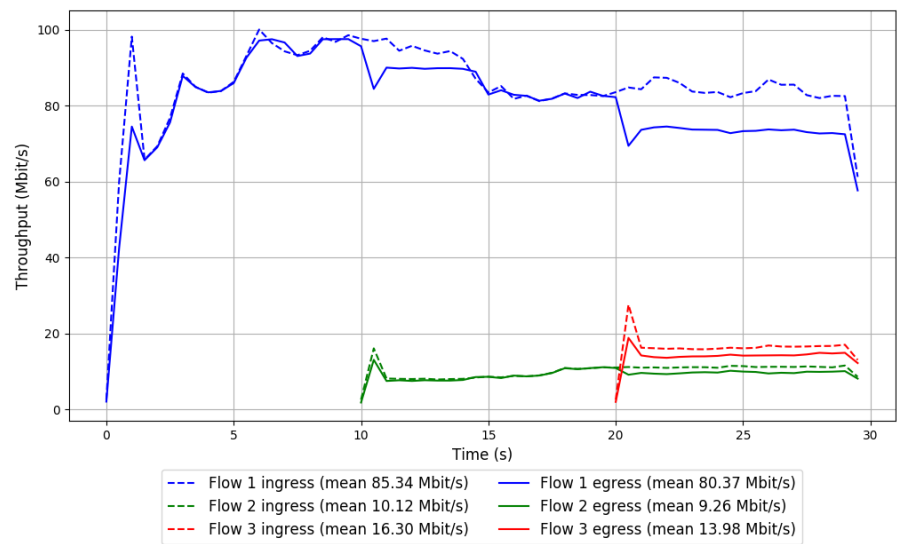
-- Flow 3:

Average throughput: 13.98 Mbit/s

95th percentile per-packet one-way delay: 68.504 ms

Loss rate: 14.24%

Run 7: Report of PCC-Allegro — Data Link



Run 8: Statistics of PCC-Allegro

Start at: 2018-04-25 00:17:06

End at: 2018-04-25 00:17:36

Local clock offset: 1.046 ms

Remote clock offset: 0.483 ms

# Below is generated by plot.py at 2018-04-25 01:45:43

# Datalink statistics

-- Total of 3 flows:

Average throughput: 88.62 Mbit/s

95th percentile per-packet one-way delay: 60.789 ms

Loss rate: 1.55%

-- Flow 1:

Average throughput: 80.12 Mbit/s

95th percentile per-packet one-way delay: 60.657 ms

Loss rate: 1.56%

-- Flow 2:

Average throughput: 8.31 Mbit/s

95th percentile per-packet one-way delay: 62.650 ms

Loss rate: 1.04%

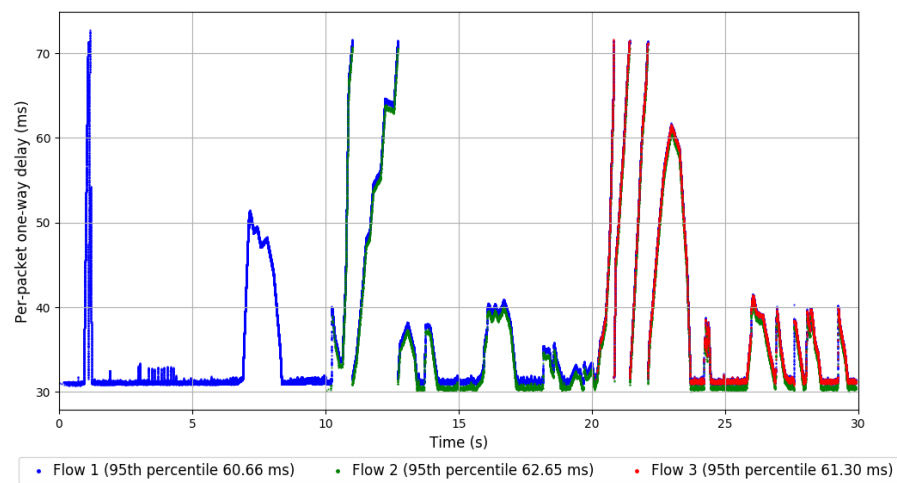
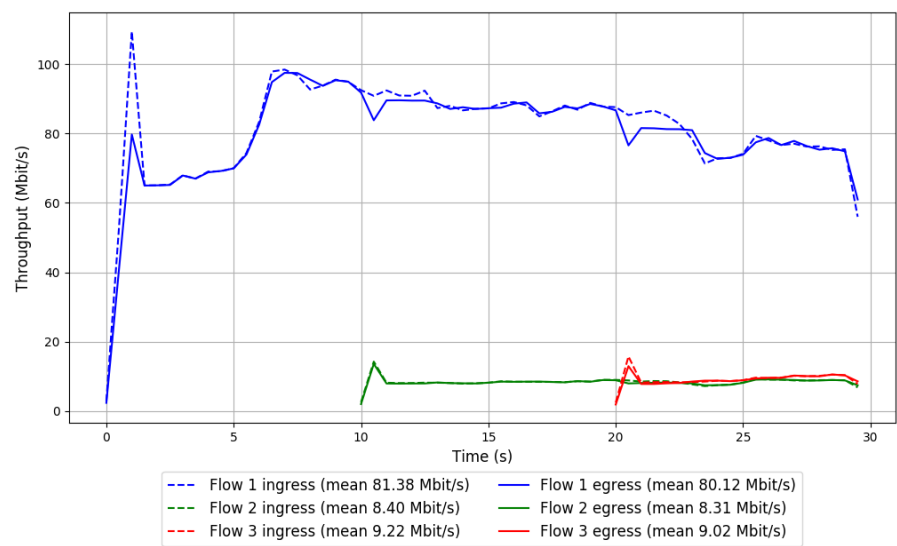
-- Flow 3:

Average throughput: 9.02 Mbit/s

95th percentile per-packet one-way delay: 61.301 ms

Loss rate: 2.19%

Run 8: Report of PCC-Allegro — Data Link

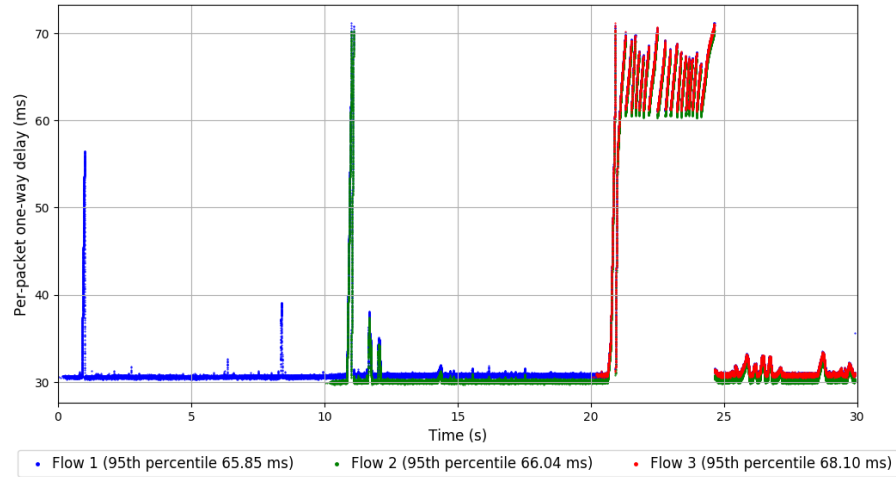
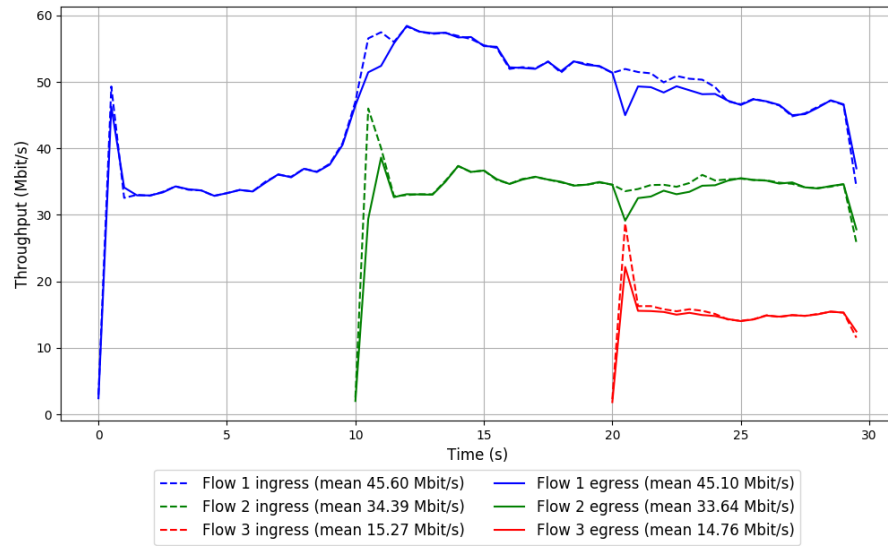


Run 9: Statistics of PCC-Allegro

Start at: 2018-04-25 00:43:27  
End at: 2018-04-25 00:43:57  
Local clock offset: 1.055 ms  
Remote clock offset: -0.721 ms

# Below is generated by plot.py at 2018-04-25 01:46:08  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 72.33 Mbit/s  
95th percentile per-packet one-way delay: 66.206 ms  
Loss rate: 1.58%  
-- Flow 1:  
Average throughput: 45.10 Mbit/s  
95th percentile per-packet one-way delay: 65.846 ms  
Loss rate: 1.08%  
-- Flow 2:  
Average throughput: 33.64 Mbit/s  
95th percentile per-packet one-way delay: 66.037 ms  
Loss rate: 2.19%  
-- Flow 3:  
Average throughput: 14.76 Mbit/s  
95th percentile per-packet one-way delay: 68.097 ms  
Loss rate: 3.33%

# Run 9: Report of PCC-Allegro — Data Link

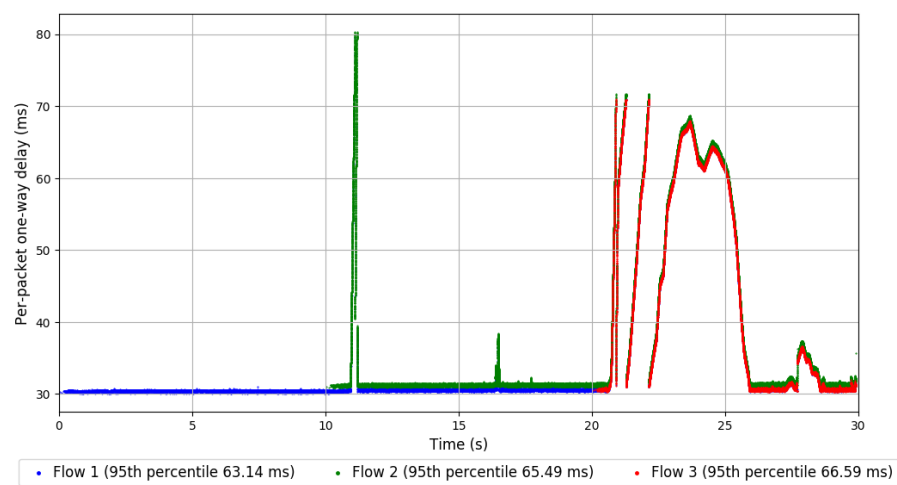
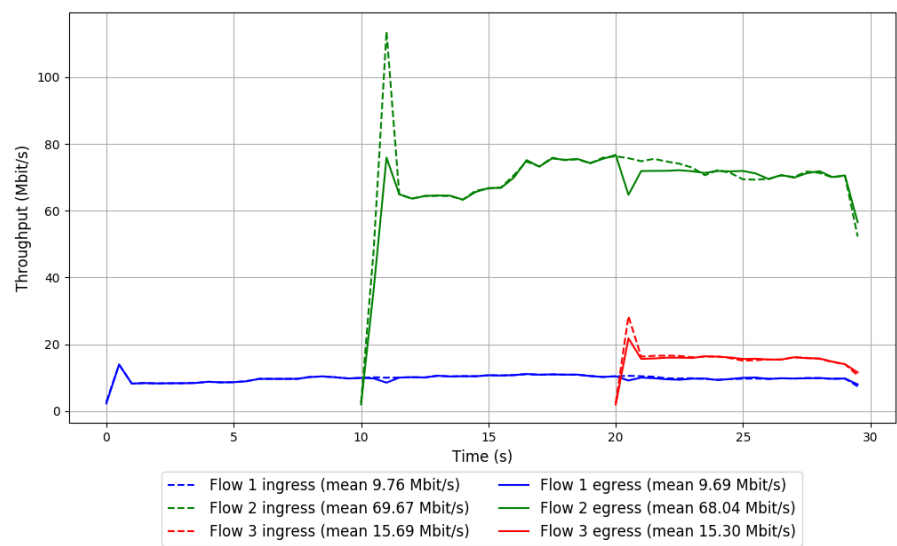


Run 10: Statistics of PCC-Allegro

Start at: 2018-04-25 01:10:50  
End at: 2018-04-25 01:11:20  
Local clock offset: 1.025 ms  
Remote clock offset: -4.103 ms

# Below is generated by plot.py at 2018-04-25 01:46:08  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 59.97 Mbit/s  
95th percentile per-packet one-way delay: 65.330 ms  
Loss rate: 2.09%  
-- Flow 1:  
Average throughput: 9.69 Mbit/s  
95th percentile per-packet one-way delay: 63.144 ms  
Loss rate: 0.73%  
-- Flow 2:  
Average throughput: 68.04 Mbit/s  
95th percentile per-packet one-way delay: 65.493 ms  
Loss rate: 2.33%  
-- Flow 3:  
Average throughput: 15.30 Mbit/s  
95th percentile per-packet one-way delay: 66.589 ms  
Loss rate: 2.53%

Run 10: Report of PCC-Allegro — Data Link



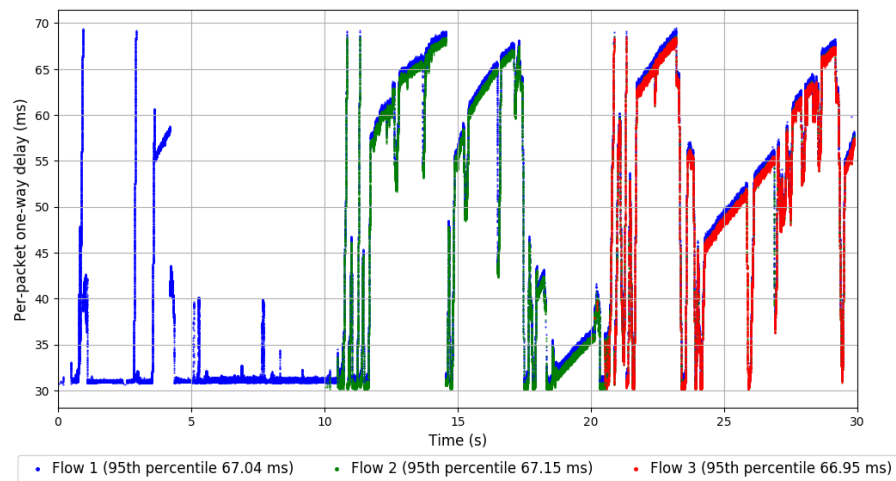
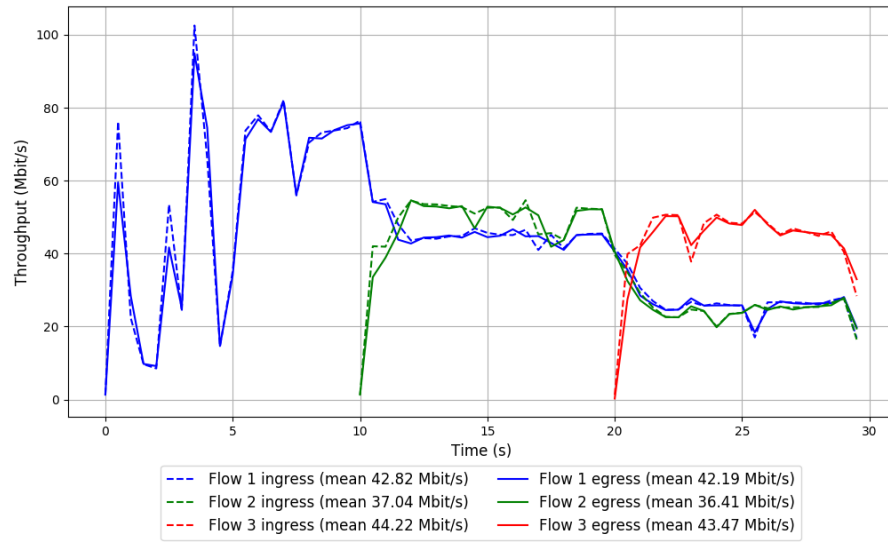


```
Run 1: Statistics of QUIC Cubic

Start at: 2018-04-24 21:01:22
End at: 2018-04-24 21:01:52
Local clock offset: 1.275 ms
Remote clock offset: 0.409 ms

# Below is generated by plot.py at 2018-04-25 01:46:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 80.68 Mbit/s
95th percentile per-packet one-way delay: 67.049 ms
Loss rate: 1.46%
-- Flow 1:
Average throughput: 42.19 Mbit/s
95th percentile per-packet one-way delay: 67.041 ms
Loss rate: 1.40%
-- Flow 2:
Average throughput: 36.41 Mbit/s
95th percentile per-packet one-way delay: 67.151 ms
Loss rate: 1.55%
-- Flow 3:
Average throughput: 43.47 Mbit/s
95th percentile per-packet one-way delay: 66.953 ms
Loss rate: 1.50%
```

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



Run 2: Statistics of QUIC Cubic

Start at: 2018-04-24 21:26:45

End at: 2018-04-24 21:27:15

Local clock offset: 1.355 ms

Remote clock offset: 0.091 ms

# Below is generated by plot.py at 2018-04-25 01:46:35

# Datalink statistics

-- Total of 3 flows:

Average throughput: 80.69 Mbit/s

95th percentile per-packet one-way delay: 64.528 ms

Loss rate: 1.13%

-- Flow 1:

Average throughput: 43.34 Mbit/s

95th percentile per-packet one-way delay: 64.153 ms

Loss rate: 1.52%

-- Flow 2:

Average throughput: 41.08 Mbit/s

95th percentile per-packet one-way delay: 64.709 ms

Loss rate: 0.69%

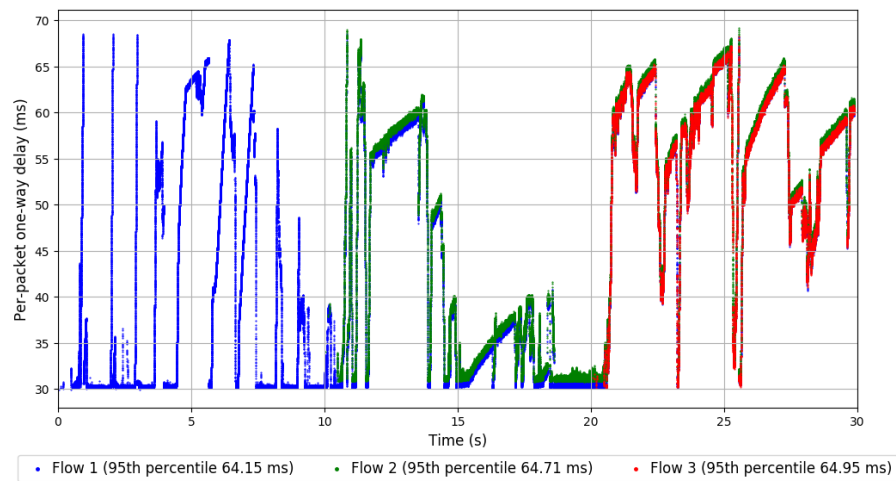
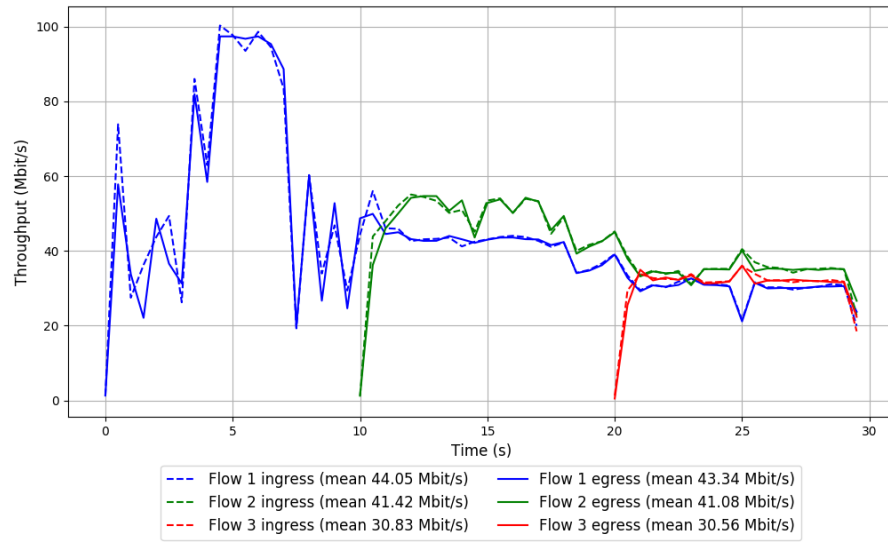
-- Flow 3:

Average throughput: 30.56 Mbit/s

95th percentile per-packet one-way delay: 64.954 ms

Loss rate: 0.60%

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



Run 3: Statistics of QUIC Cubic

Start at: 2018-04-24 21:52:05

End at: 2018-04-24 21:52:35

Local clock offset: 0.53 ms

Remote clock offset: -0.82 ms

# Below is generated by plot.py at 2018-04-25 01:46:47

# Datalink statistics

-- Total of 3 flows:

Average throughput: 84.94 Mbit/s

95th percentile per-packet one-way delay: 66.911 ms

Loss rate: 1.41%

-- Flow 1:

Average throughput: 49.08 Mbit/s

95th percentile per-packet one-way delay: 66.420 ms

Loss rate: 1.53%

-- Flow 2:

Average throughput: 44.65 Mbit/s

95th percentile per-packet one-way delay: 67.484 ms

Loss rate: 1.24%

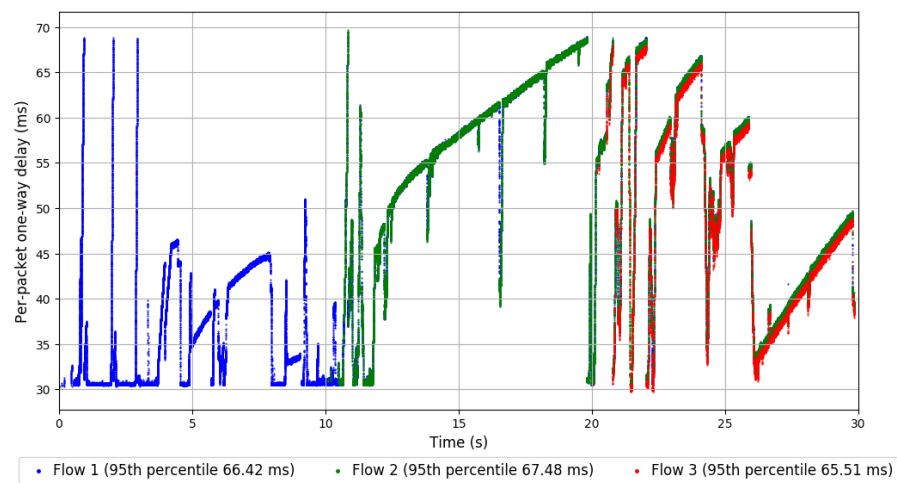
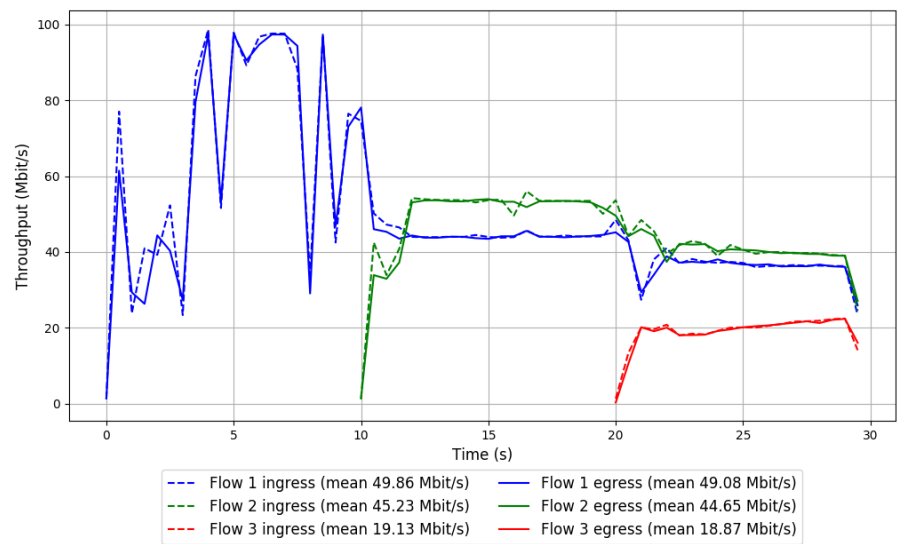
-- Flow 3:

Average throughput: 18.87 Mbit/s

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

Loss rate: 1.25%

Run 3: Report of QUIC Cubic — Data Link

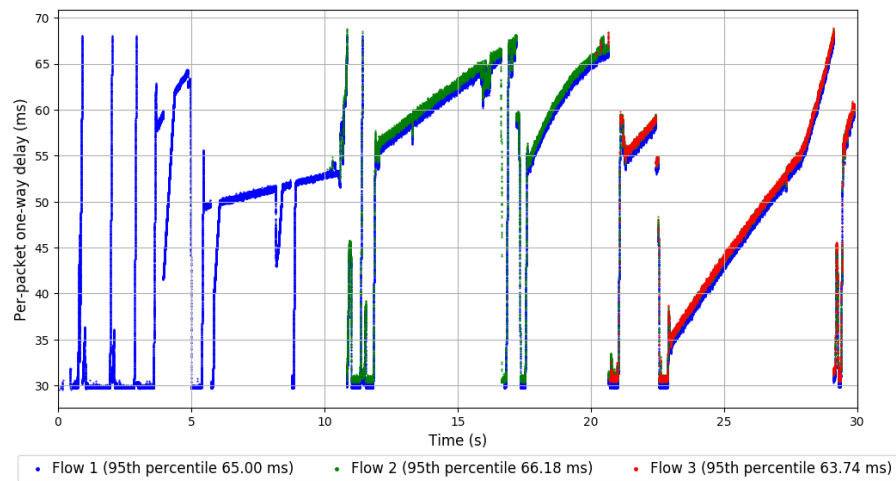
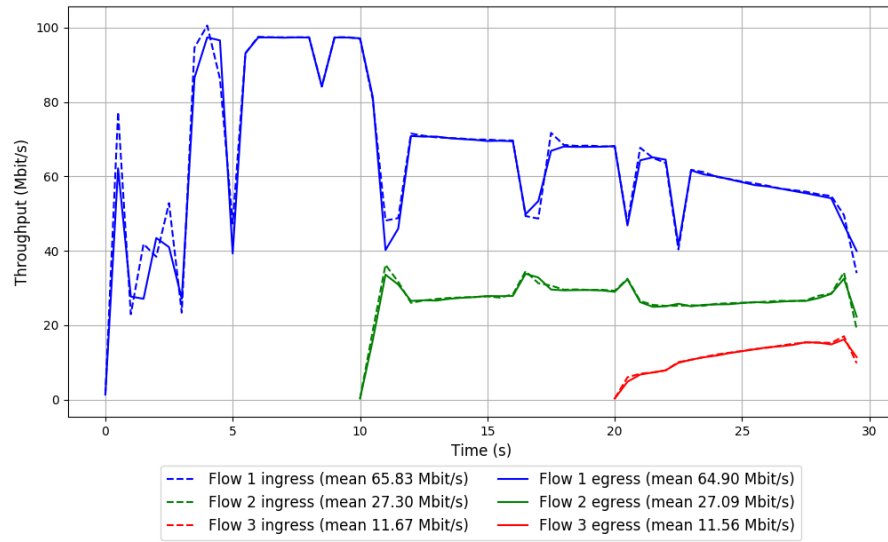


Run 4: Statistics of QUIC Cubic

Start at: 2018-04-24 22:17:36  
End at: 2018-04-24 22:18:06  
Local clock offset: 0.378 ms  
Remote clock offset: -0.058 ms

# Below is generated by plot.py at 2018-04-25 01:46:59  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 86.64 Mbit/s  
95th percentile per-packet one-way delay: 65.304 ms  
Loss rate: 1.18%  
-- Flow 1:  
Average throughput: 64.90 Mbit/s  
95th percentile per-packet one-way delay: 65.000 ms  
Loss rate: 1.32%  
-- Flow 2:  
Average throughput: 27.09 Mbit/s  
95th percentile per-packet one-way delay: 66.184 ms  
Loss rate: 0.74%  
-- Flow 3:  
Average throughput: 11.56 Mbit/s  
95th percentile per-packet one-way delay: 63.744 ms  
Loss rate: 0.95%

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



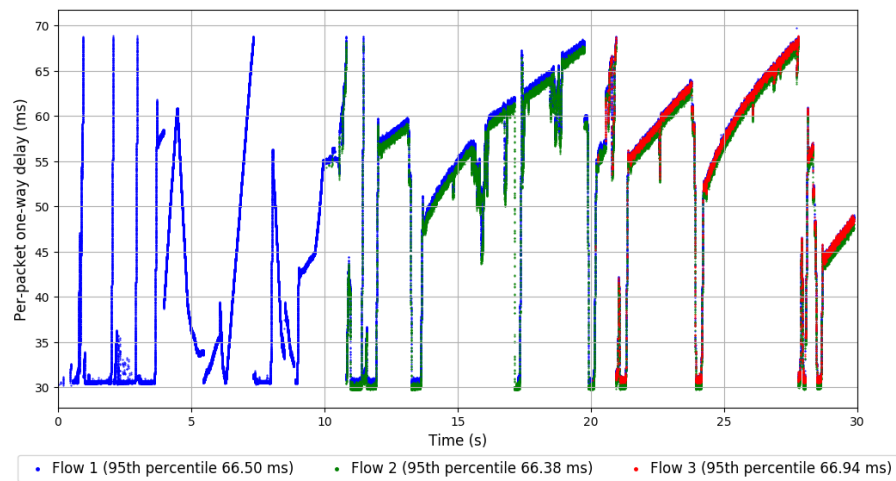
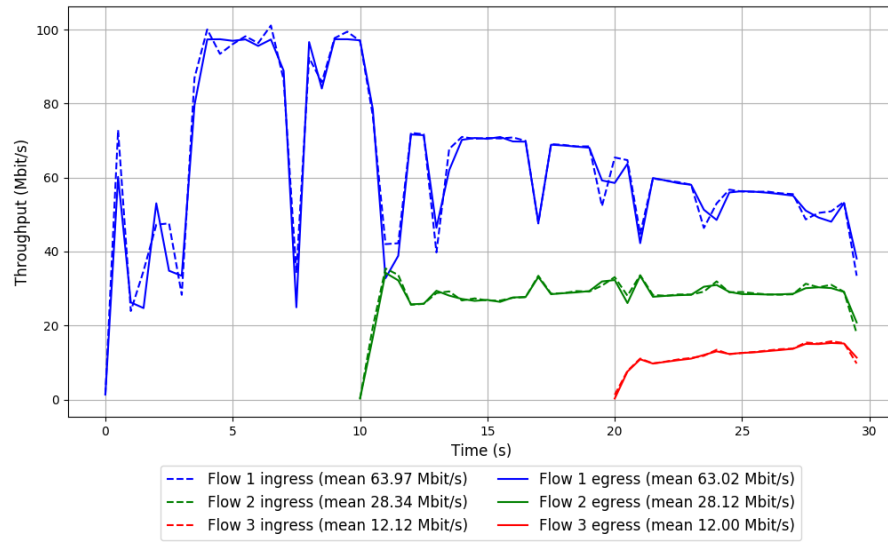


Run 5: Statistics of QUIC Cubic

Start at: 2018-04-24 22:41:45  
End at: 2018-04-24 22:42:15  
Local clock offset: 0.119 ms  
Remote clock offset: -0.369 ms

# Below is generated by plot.py at 2018-04-25 01:47:22  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 85.60 Mbit/s  
95th percentile per-packet one-way delay: 66.469 ms  
Loss rate: 1.26%  
-- Flow 1:  
Average throughput: 63.02 Mbit/s  
95th percentile per-packet one-way delay: 66.503 ms  
Loss rate: 1.42%  
-- Flow 2:  
Average throughput: 28.12 Mbit/s  
95th percentile per-packet one-way delay: 66.378 ms  
Loss rate: 0.79%  
-- Flow 3:  
Average throughput: 12.00 Mbit/s  
95th percentile per-packet one-way delay: 66.945 ms  
Loss rate: 0.85%

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

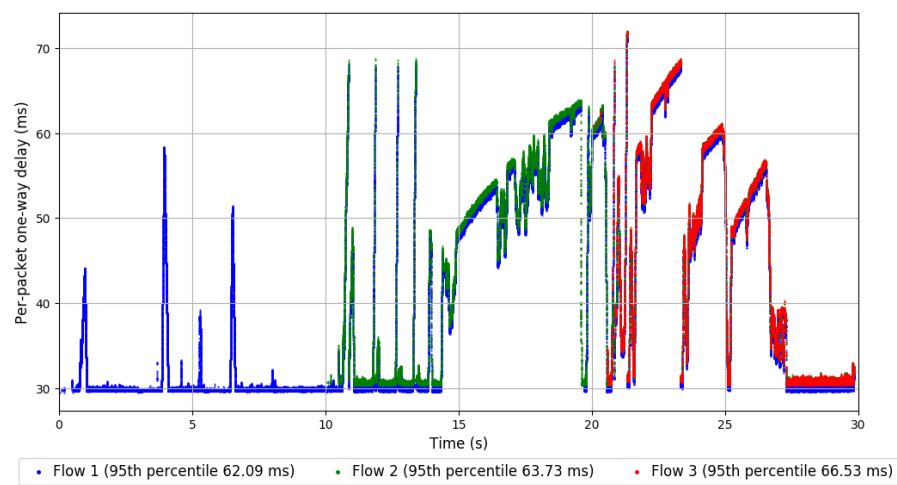
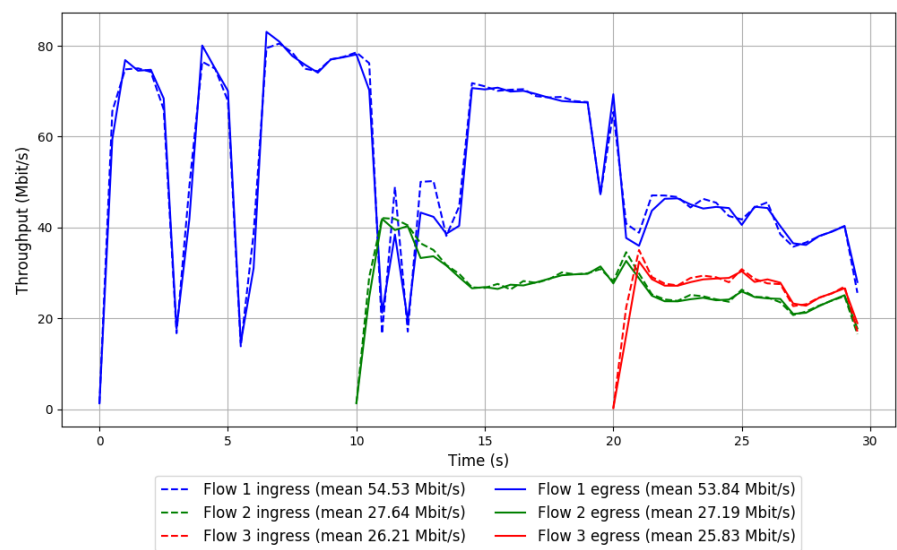


Run 6: Statistics of QUIC Cubic

Start at: 2018-04-24 23:06:19  
End at: 2018-04-24 23:06:49  
Local clock offset: 0.707 ms  
Remote clock offset: -0.207 ms

# Below is generated by plot.py at 2018-04-25 01:47:22  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 80.33 Mbit/s  
95th percentile per-packet one-way delay: 63.054 ms  
Loss rate: 1.40%  
-- Flow 1:  
Average throughput: 53.84 Mbit/s  
95th percentile per-packet one-way delay: 62.095 ms  
Loss rate: 1.27%  
-- Flow 2:  
Average throughput: 27.19 Mbit/s  
95th percentile per-packet one-way delay: 63.734 ms  
Loss rate: 1.61%  
-- Flow 3:  
Average throughput: 25.83 Mbit/s  
95th percentile per-packet one-way delay: 66.526 ms  
Loss rate: 1.75%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-04-24 23:31:49

End at: 2018-04-24 23:32:19

Local clock offset: 0.755 ms

Remote clock offset: 0.431 ms

# Below is generated by plot.py at 2018-04-25 01:47:39

# Datalink statistics

-- Total of 3 flows:

Average throughput: 84.22 Mbit/s

95th percentile per-packet one-way delay: 56.140 ms

Loss rate: 0.80%

-- Flow 1:

Average throughput: 56.79 Mbit/s

95th percentile per-packet one-way delay: 55.414 ms

Loss rate: 0.94%

-- Flow 2:

Average throughput: 26.67 Mbit/s

95th percentile per-packet one-way delay: 56.667 ms

Loss rate: 0.57%

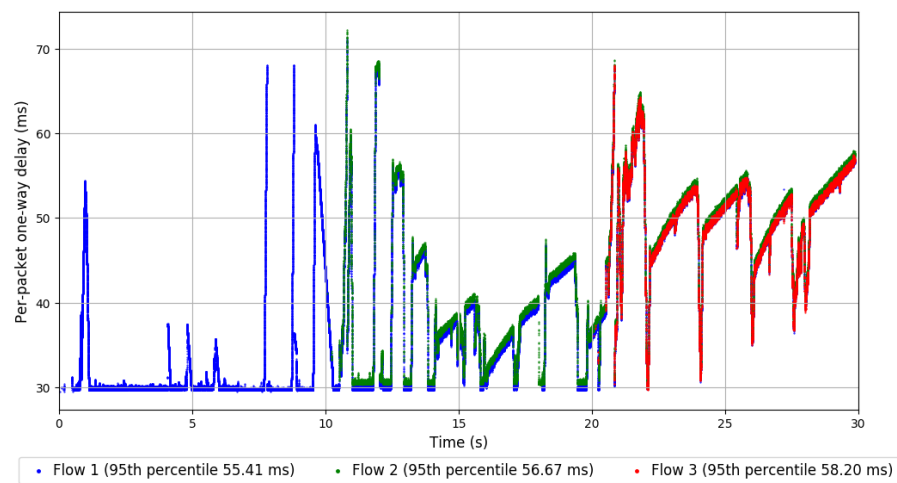
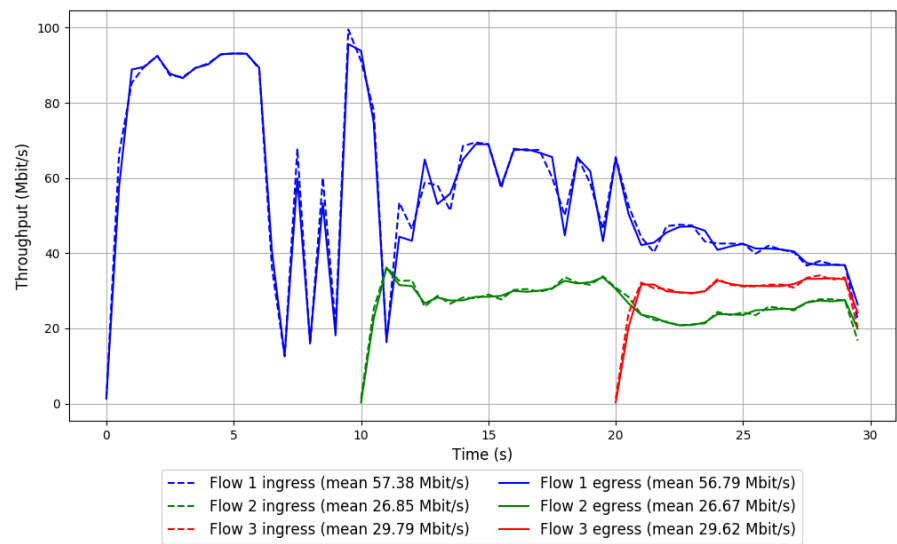
-- Flow 3:

Average throughput: 29.62 Mbit/s

95th percentile per-packet one-way delay: 58.197 ms

Loss rate: 0.36%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-04-24 23:56:49

End at: 2018-04-24 23:57:19

Local clock offset: 0.827 ms

Remote clock offset: 0.294 ms

# Below is generated by plot.py at 2018-04-25 01:47:56

# Datalink statistics

-- Total of 3 flows:

Average throughput: 85.49 Mbit/s

95th percentile per-packet one-way delay: 66.382 ms

Loss rate: 1.01%

-- Flow 1:

Average throughput: 66.86 Mbit/s

95th percentile per-packet one-way delay: 66.040 ms

Loss rate: 1.09%

-- Flow 2:

Average throughput: 23.16 Mbit/s

95th percentile per-packet one-way delay: 67.135 ms

Loss rate: 0.67%

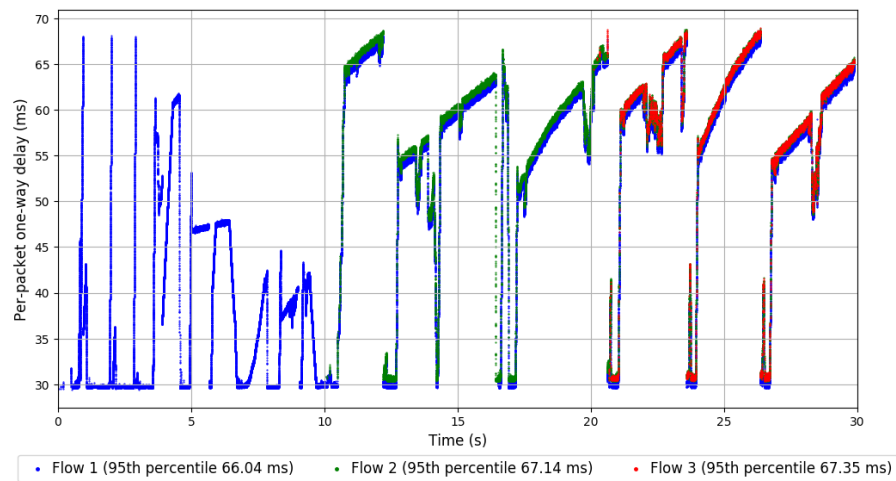
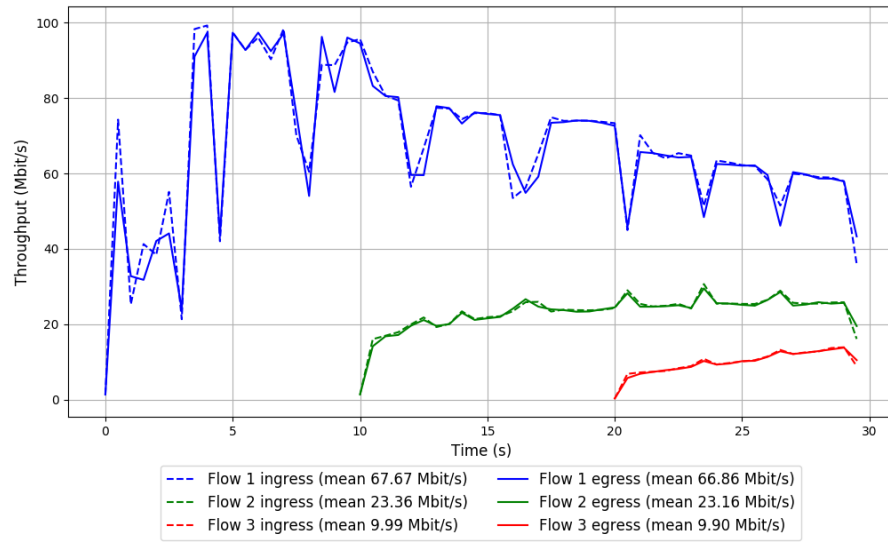
-- Flow 3:

Average throughput: 9.90 Mbit/s

95th percentile per-packet one-way delay: 67.349 ms

Loss rate: 1.00%

# Run 8: Report of QUIC Cubic — Data Link





Run 9: Statistics of QUIC Cubic

Start at: 2018-04-25 00:22:37

End at: 2018-04-25 00:23:07

Local clock offset: 1.158 ms

Remote clock offset: 0.194 ms

# Below is generated by plot.py at 2018-04-25 01:48:16

# Datalink statistics

-- Total of 3 flows:

Average throughput: 83.81 Mbit/s

95th percentile per-packet one-way delay: 66.231 ms

Loss rate: 1.07%

-- Flow 1:

Average throughput: 68.31 Mbit/s

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

Loss rate: 1.17%

-- Flow 2:

Average throughput: 17.68 Mbit/s

95th percentile per-packet one-way delay: 65.890 ms

Loss rate: 0.59%

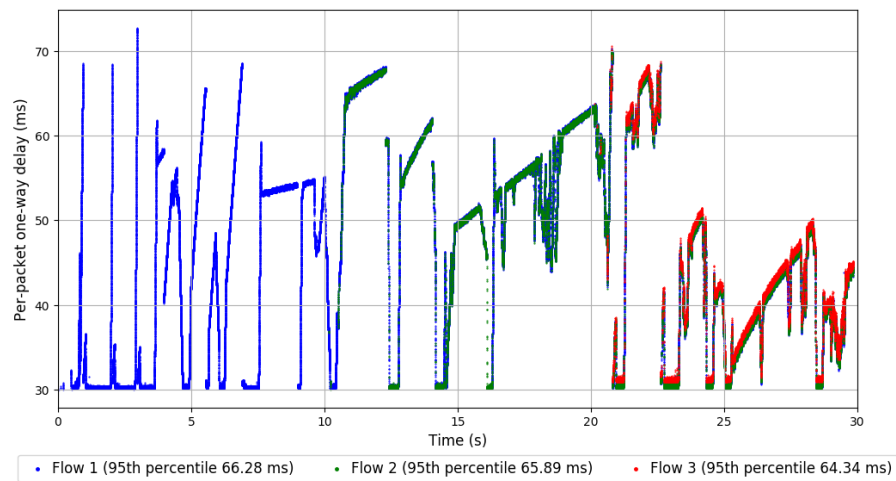
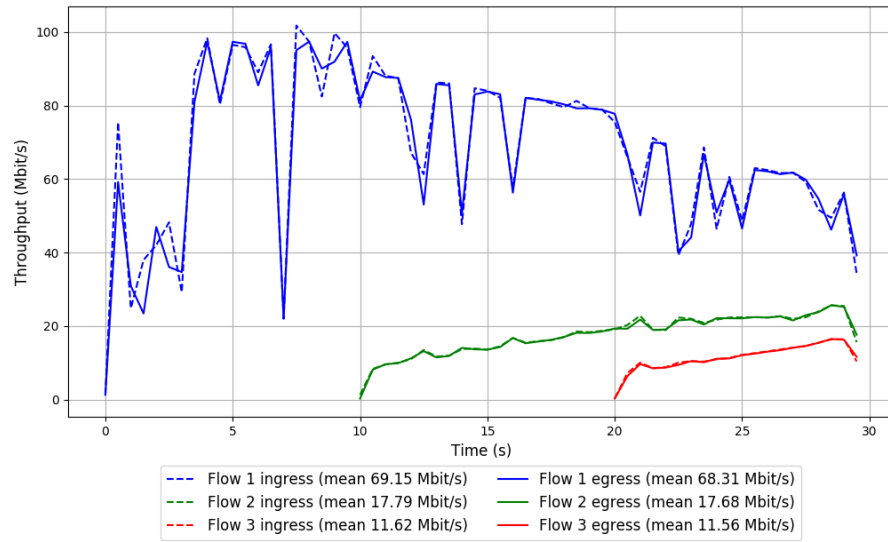
-- Flow 3:

Average throughput: 11.56 Mbit/s

95th percentile per-packet one-way delay: 64.340 ms

Loss rate: 0.70%

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

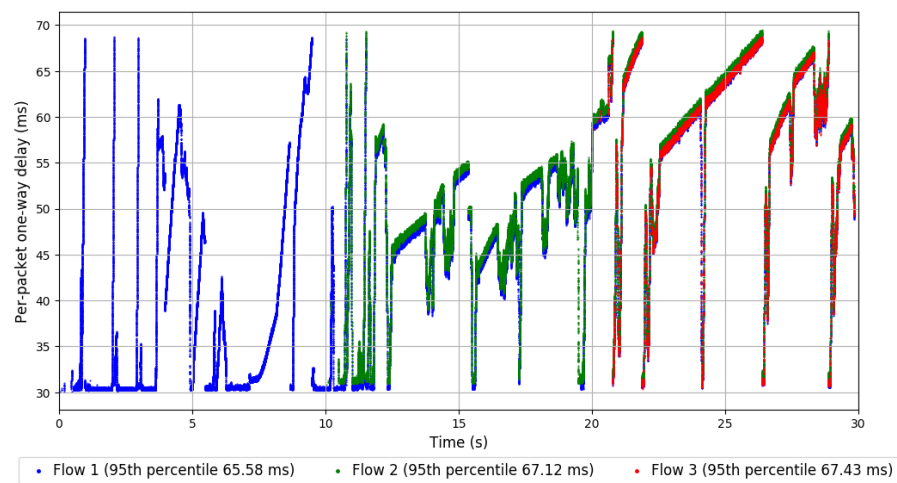
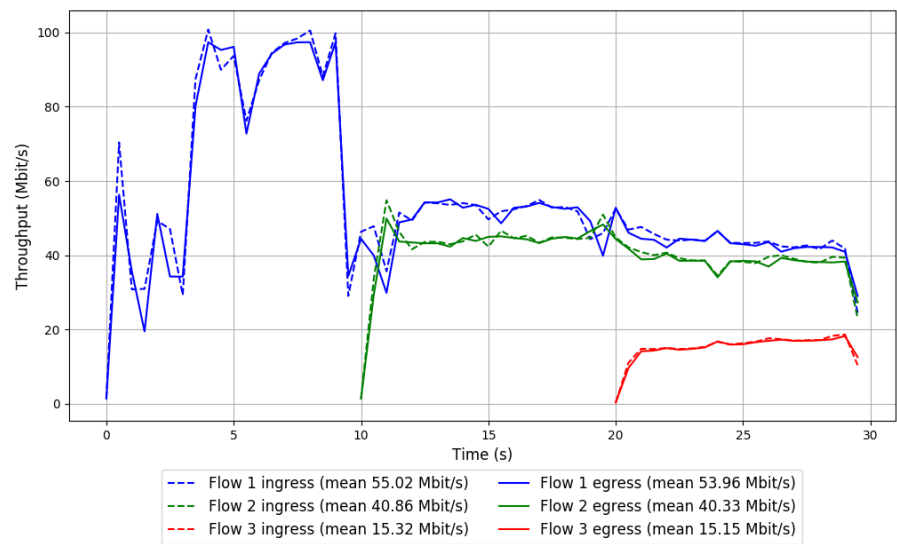


Run 10: Statistics of QUIC Cubic

Start at: 2018-04-25 00:49:03  
End at: 2018-04-25 00:49:33  
Local clock offset: 1.069 ms  
Remote clock offset: -1.433 ms

# Below is generated by plot.py at 2018-04-25 01:48:26  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 85.71 Mbit/s  
95th percentile per-packet one-way delay: 66.429 ms  
Loss rate: 1.61%  
-- Flow 1:  
Average throughput: 53.96 Mbit/s  
95th percentile per-packet one-way delay: 65.584 ms  
Loss rate: 1.86%  
-- Flow 2:  
Average throughput: 40.33 Mbit/s  
95th percentile per-packet one-way delay: 67.124 ms  
Loss rate: 1.19%  
-- Flow 3:  
Average throughput: 15.15 Mbit/s  
95th percentile per-packet one-way delay: 67.434 ms  
Loss rate: 1.21%

Run 10: Report of QUIC Cubic — Data Link

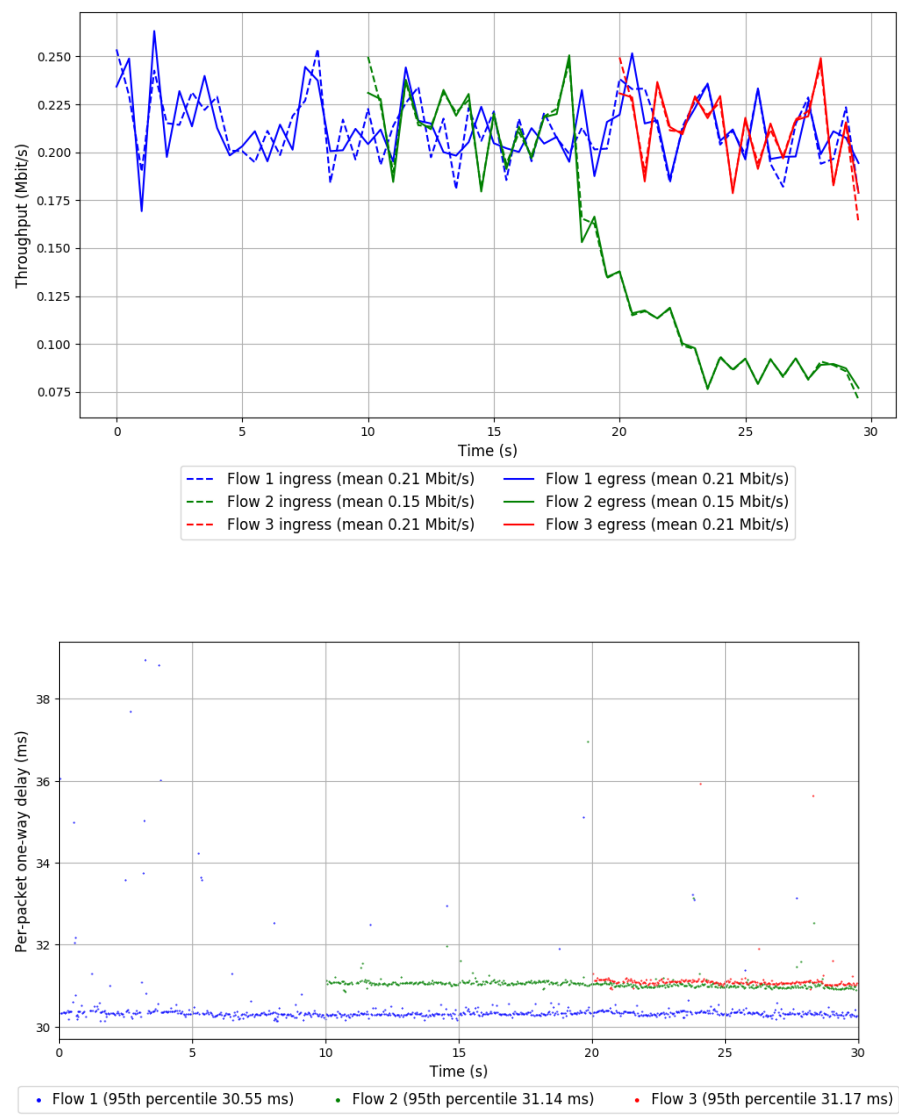


```
Run 1: Statistics of SCReAM

Start at: 2018-04-24 21:00:03
End at: 2018-04-24 21:00:33
Local clock offset: 1.304 ms
Remote clock offset: 0.481 ms

# Below is generated by plot.py at 2018-04-25 01:48:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.39 Mbit/s
95th percentile per-packet one-way delay: 31.146 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 30.551 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 31.139 ms
Loss rate: 0.23%
-- Flow 3:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 31.172 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

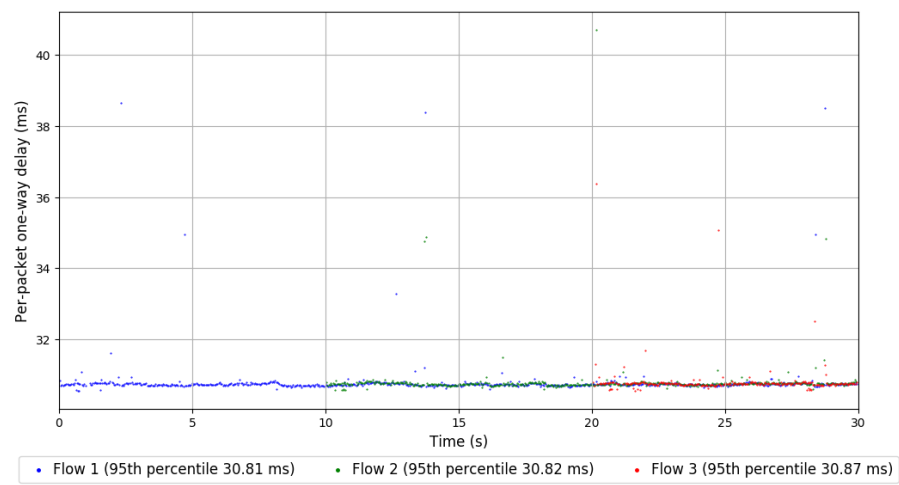
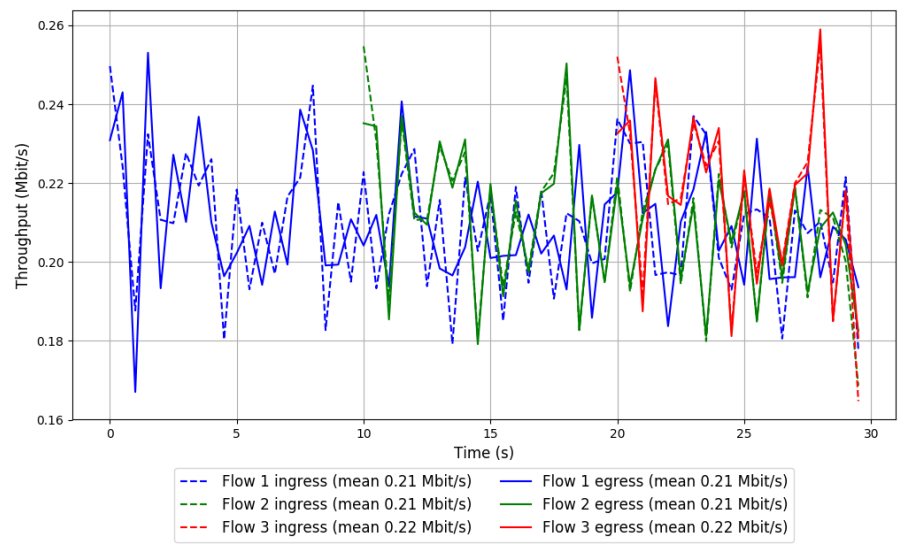


Run 2: Statistics of SReAM

Start at: 2018-04-24 21:25:27  
End at: 2018-04-24 21:25:57  
Local clock offset: 1.248 ms  
Remote clock offset: -0.265 ms

# Below is generated by plot.py at 2018-04-25 01:48:26  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.42 Mbit/s  
95th percentile per-packet one-way delay: 30.817 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 30.808 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 30.817 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 30.866 ms  
Loss rate: 0.00%

Run 2: Report of SReAM — Data Link



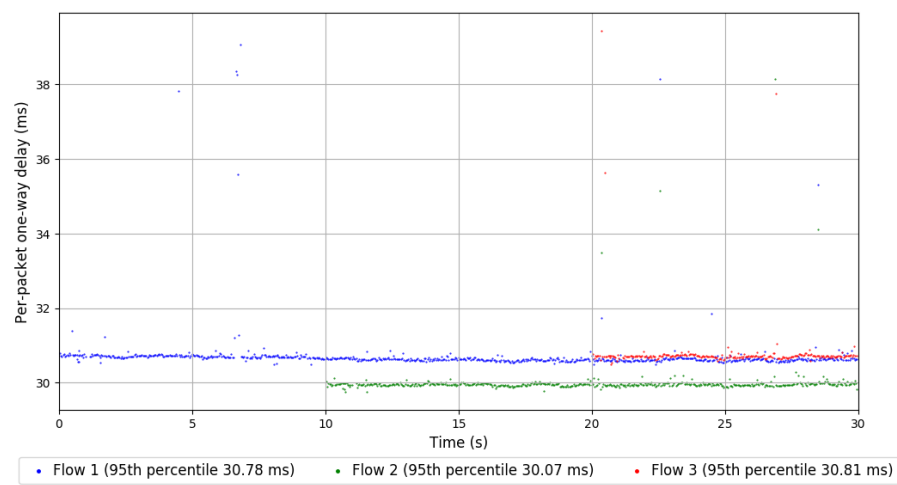
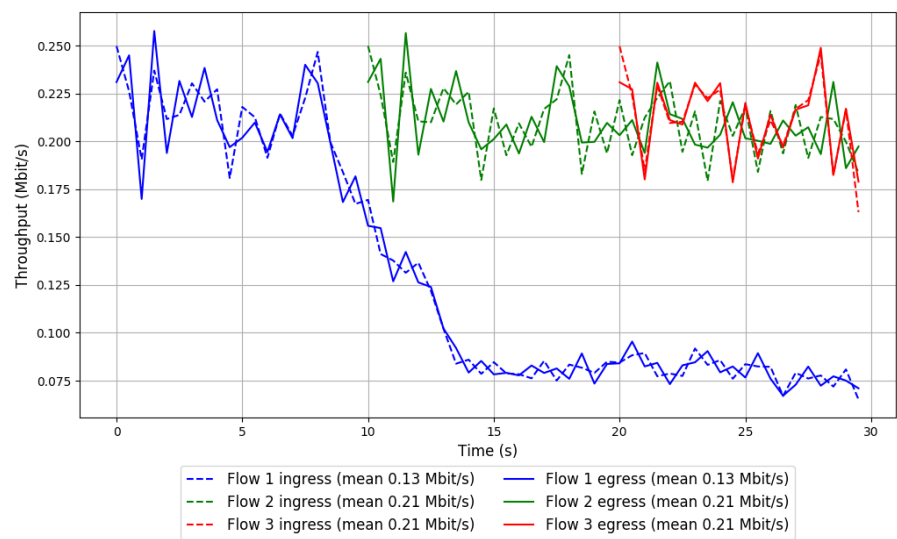


Run 3: Statistics of SReAM

Start at: 2018-04-24 21:50:46  
End at: 2018-04-24 21:51:16  
Local clock offset: 0.554 ms  
Remote clock offset: -0.731 ms

# Below is generated by plot.py at 2018-04-25 01:48:26  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.34 Mbit/s  
95th percentile per-packet one-way delay: 30.761 ms  
Loss rate: 0.12%  
-- Flow 1:  
Average throughput: 0.13 Mbit/s  
95th percentile per-packet one-way delay: 30.778 ms  
Loss rate: 0.30%  
-- Flow 2:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 30.067 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 30.812 ms  
Loss rate: 0.00%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SReAM

Start at: 2018-04-24 22:16:18

End at: 2018-04-24 22:16:48

Local clock offset: 0.304 ms

Remote clock offset: 0.398 ms

# Below is generated by plot.py at 2018-04-25 01:48:26

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 31.139 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 31.135 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 31.148 ms

Loss rate: 0.00%

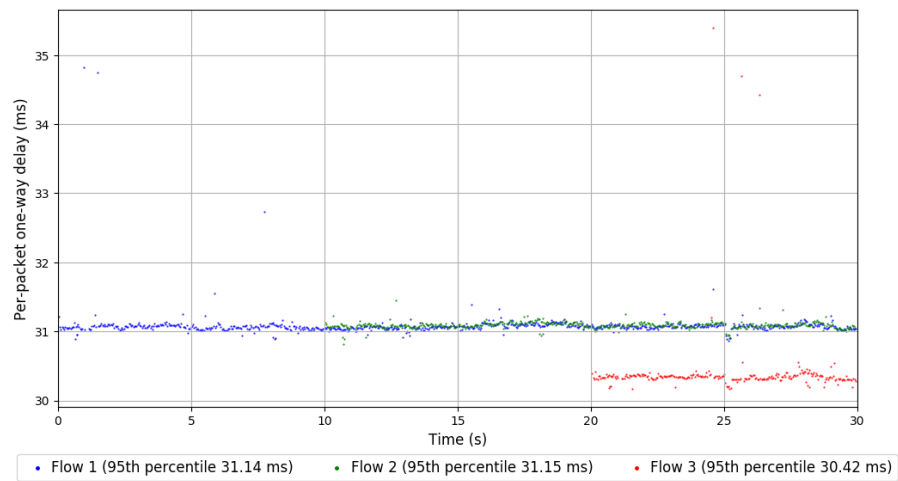
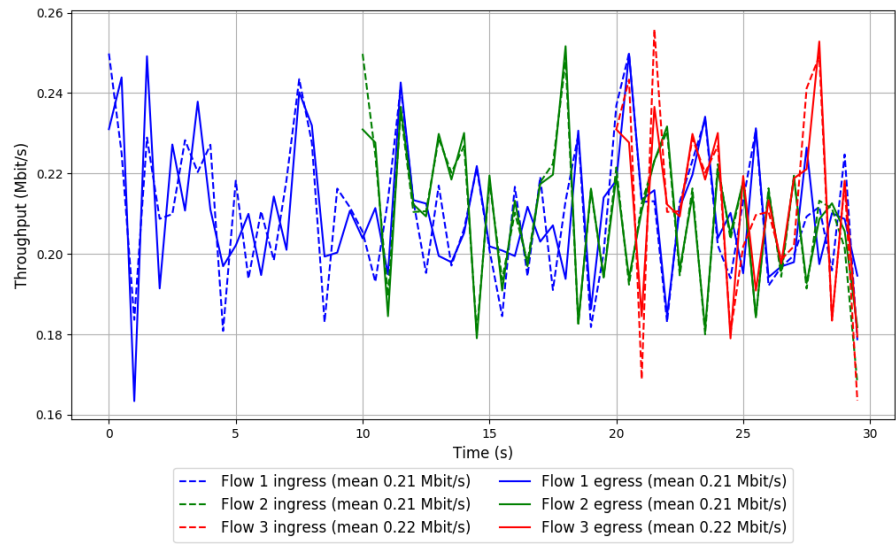
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 30.424 ms

Loss rate: 0.00%

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



Run 5: Statistics of SReAM

Start at: 2018-04-24 22:40:27

End at: 2018-04-24 22:40:57

Local clock offset: 0.147 ms

Remote clock offset: 0.119 ms

# Below is generated by plot.py at 2018-04-25 01:48:26

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.40 Mbit/s

95th percentile per-packet one-way delay: 31.112 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 30.431 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 31.139 ms

Loss rate: 0.22%

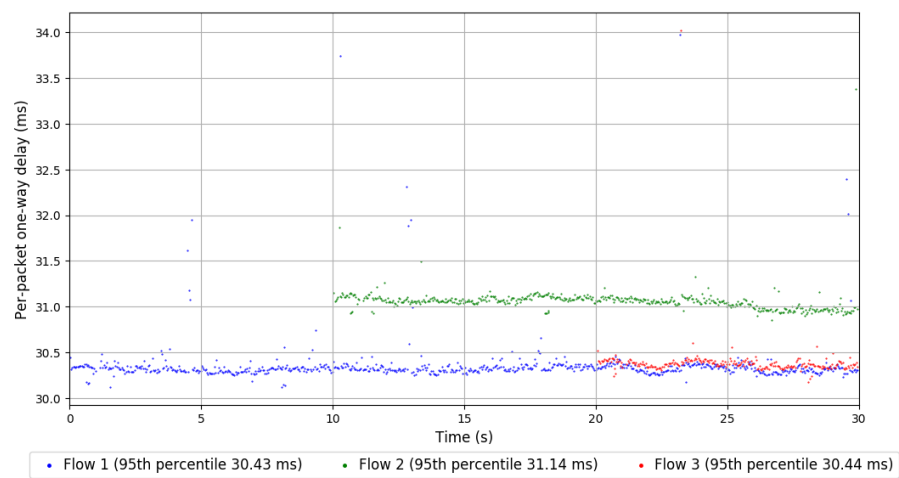
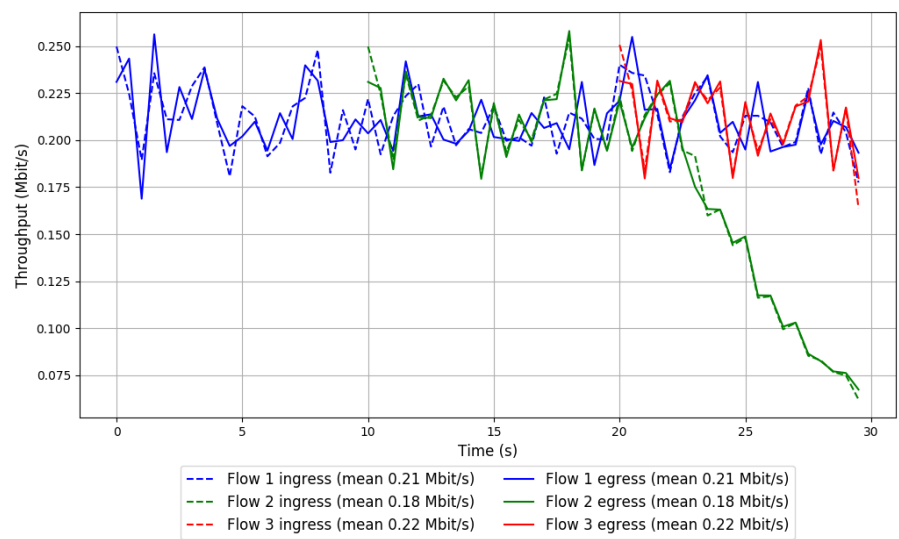
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 30.438 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SReAM

Start at: 2018-04-24 23:05:01

End at: 2018-04-24 23:05:31

Local clock offset: 0.728 ms

Remote clock offset: 0.136 ms

# Below is generated by plot.py at 2018-04-25 01:48:26

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.41 Mbit/s

95th percentile per-packet one-way delay: 30.358 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 30.386 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 30.346 ms

Loss rate: 0.00%

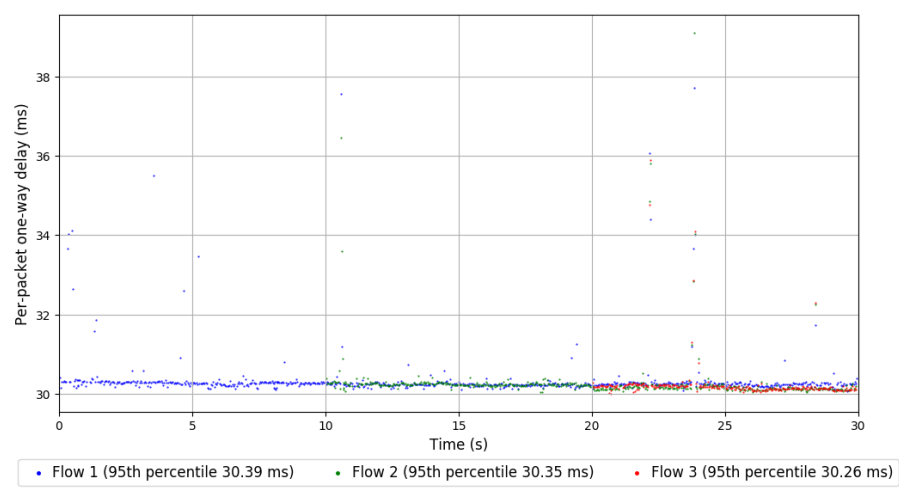
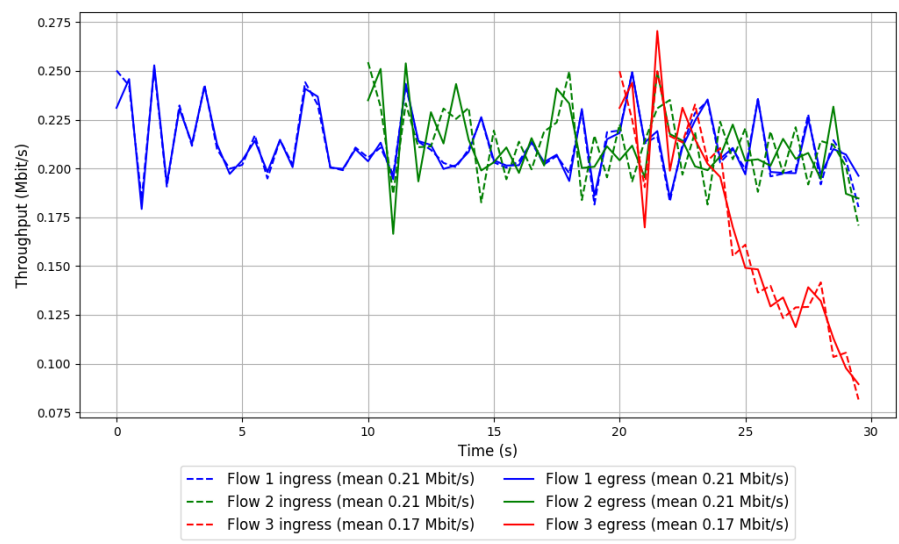
-- Flow 3:

Average throughput: 0.17 Mbit/s

95th percentile per-packet one-way delay: 30.261 ms

Loss rate: 0.57%

Run 6: Report of SReAM — Data Link



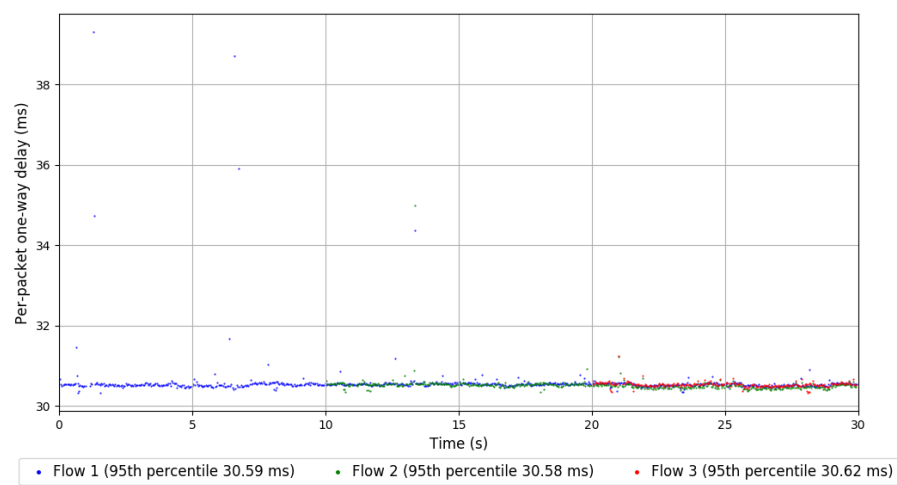
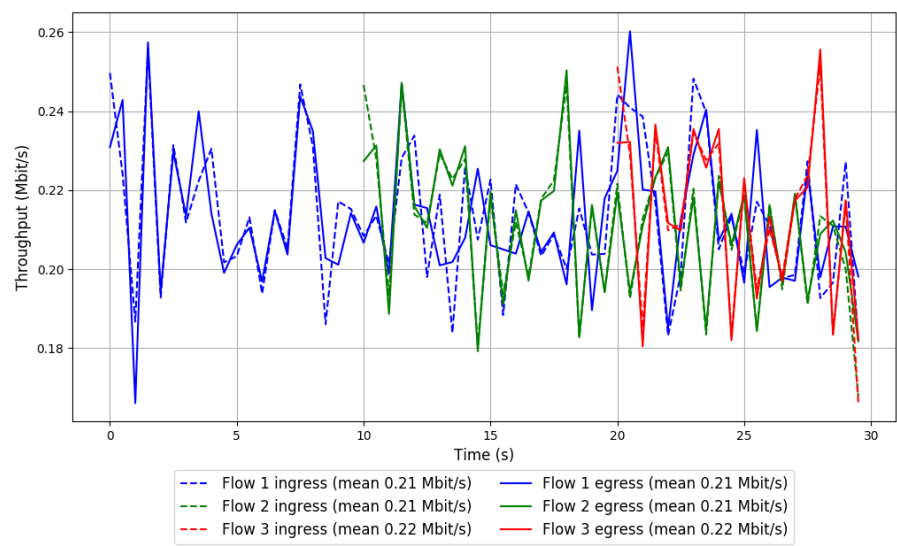


Run 7: Statistics of SReAM

Start at: 2018-04-24 23:30:30  
End at: 2018-04-24 23:31:00  
Local clock offset: 0.775 ms  
Remote clock offset: 0.424 ms

# Below is generated by plot.py at 2018-04-25 01:48:26  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 30.591 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 30.589 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 30.578 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 30.619 ms  
Loss rate: 0.00%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SReAM

Start at: 2018-04-24 23:55:31

End at: 2018-04-24 23:56:01

Local clock offset: 0.821 ms

Remote clock offset: 0.252 ms

# Below is generated by plot.py at 2018-04-25 01:48:26

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 30.593 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 30.592 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 30.604 ms

Loss rate: 0.19%

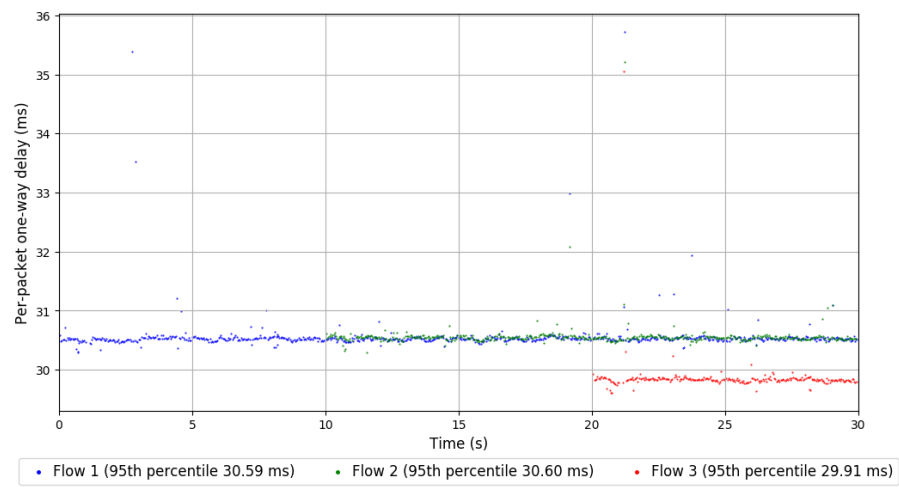
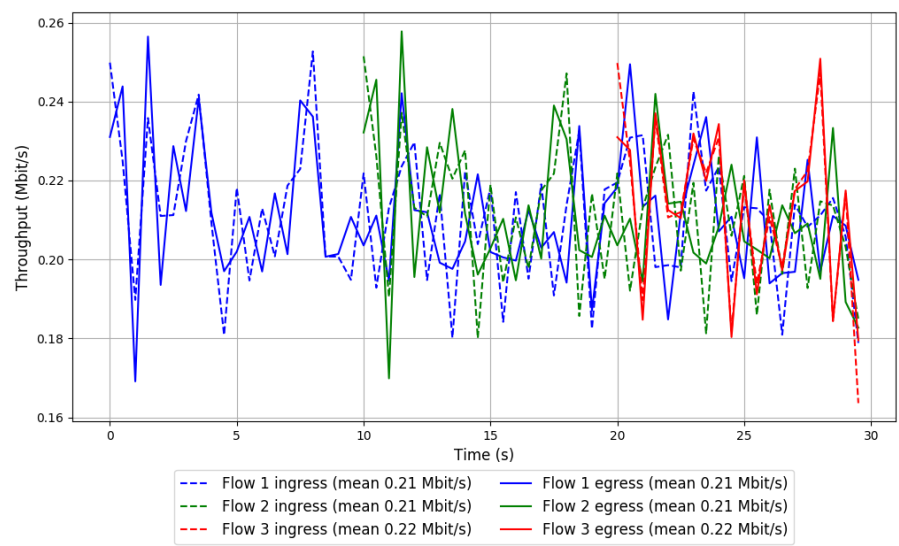
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 29.913 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link

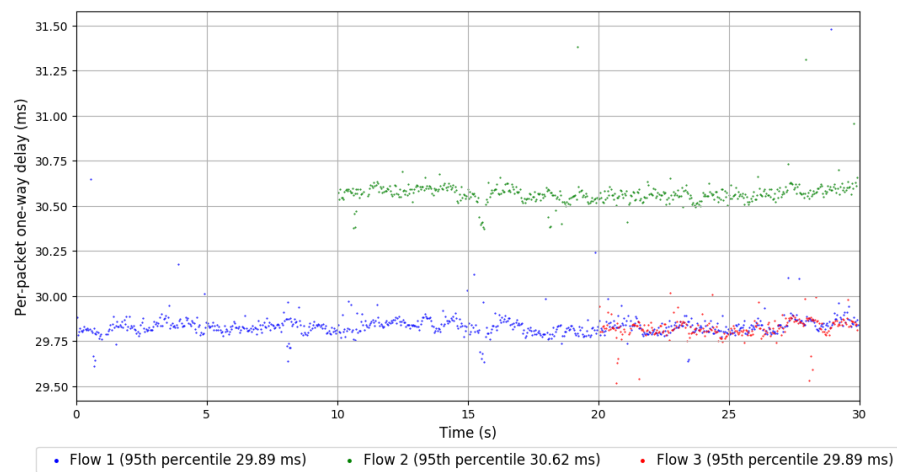
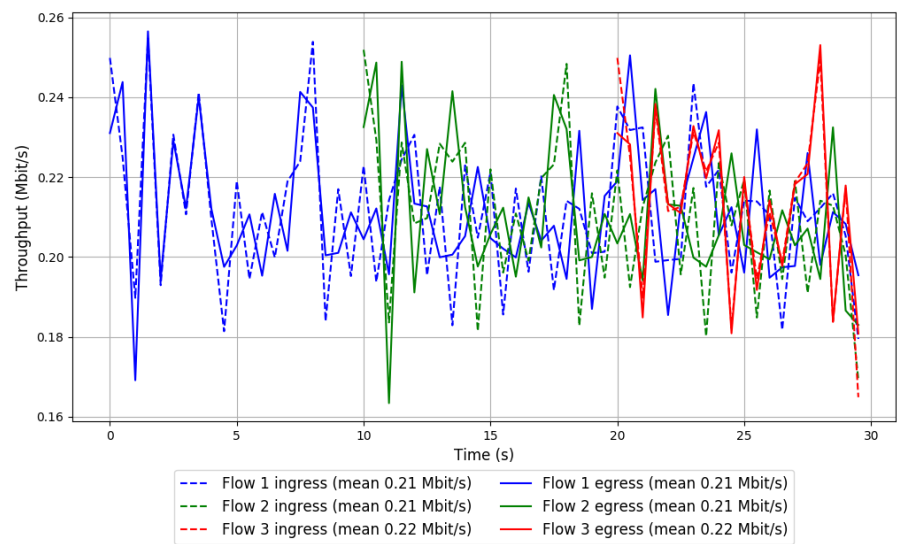


Run 9: Statistics of SReAM

Start at: 2018-04-25 00:21:20  
End at: 2018-04-25 00:21:50  
Local clock offset: 1.127 ms  
Remote clock offset: -0.231 ms

# Below is generated by plot.py at 2018-04-25 01:48:26  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.42 Mbit/s  
95th percentile per-packet one-way delay: 30.606 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 29.895 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 30.625 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 29.891 ms  
Loss rate: 0.00%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-04-25 00:47:45

End at: 2018-04-25 00:48:15

Local clock offset: 1.077 ms

Remote clock offset: -1.09 ms

# Below is generated by plot.py at 2018-04-25 01:48:26

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 31.271 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 31.273 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 31.281 ms

Loss rate: 0.00%

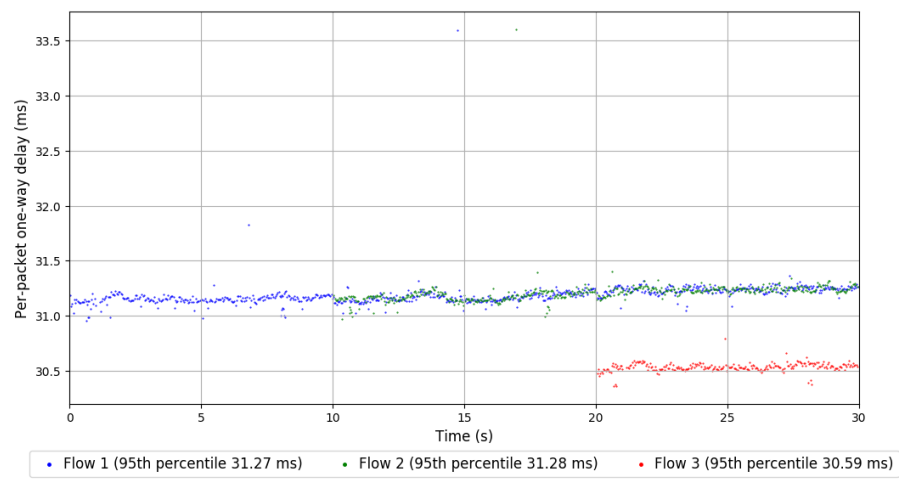
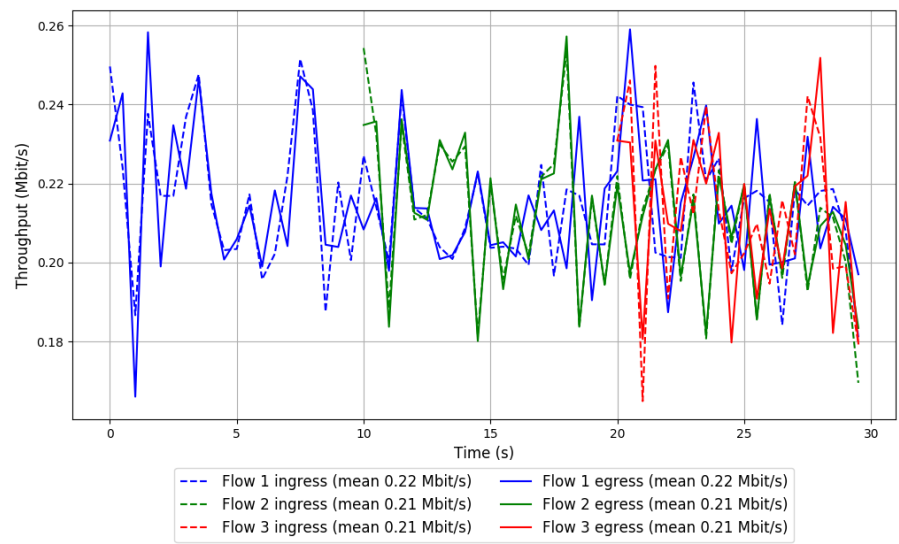
-- Flow 3:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 30.586 ms

Loss rate: 0.00%

Run 10: Report of SCReAM — Data Link



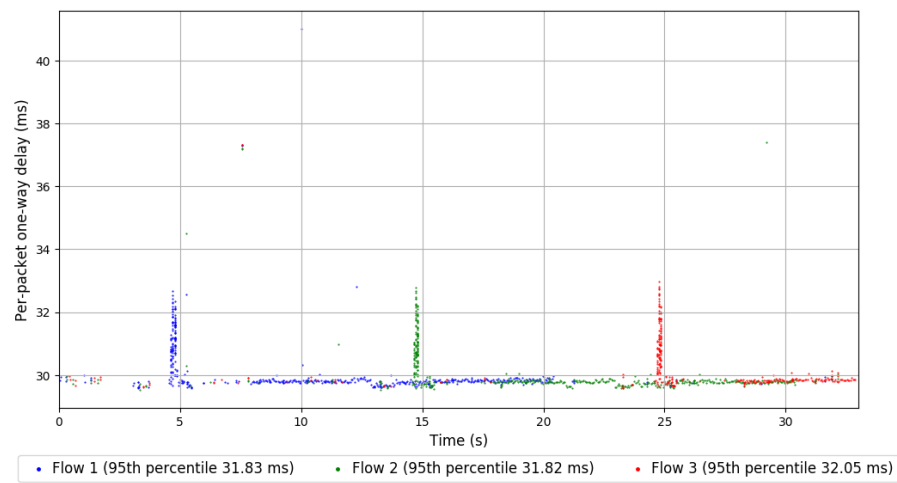
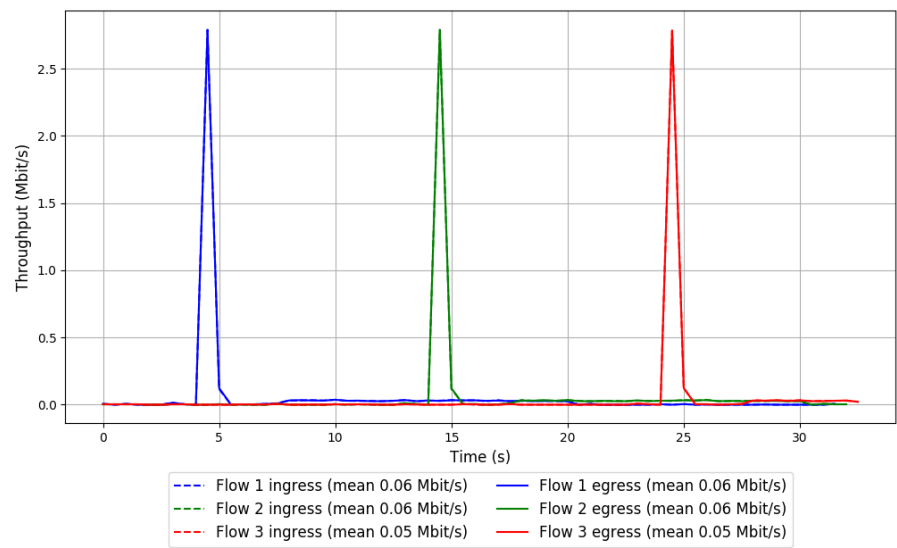


Run 1: Statistics of WebRTC media

Start at: 2018-04-24 21:06:33  
End at: 2018-04-24 21:07:03  
Local clock offset: 1.141 ms  
Remote clock offset: -0.113 ms

# Below is generated by plot.py at 2018-04-25 01:48:26  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.16 Mbit/s  
95th percentile per-packet one-way delay: 31.923 ms  
Loss rate: 0.04%  
-- Flow 1:  
Average throughput: 0.06 Mbit/s  
95th percentile per-packet one-way delay: 31.827 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.06 Mbit/s  
95th percentile per-packet one-way delay: 31.816 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 32.050 ms  
Loss rate: 0.12%

Run 1: Report of WebRTC media — Data Link

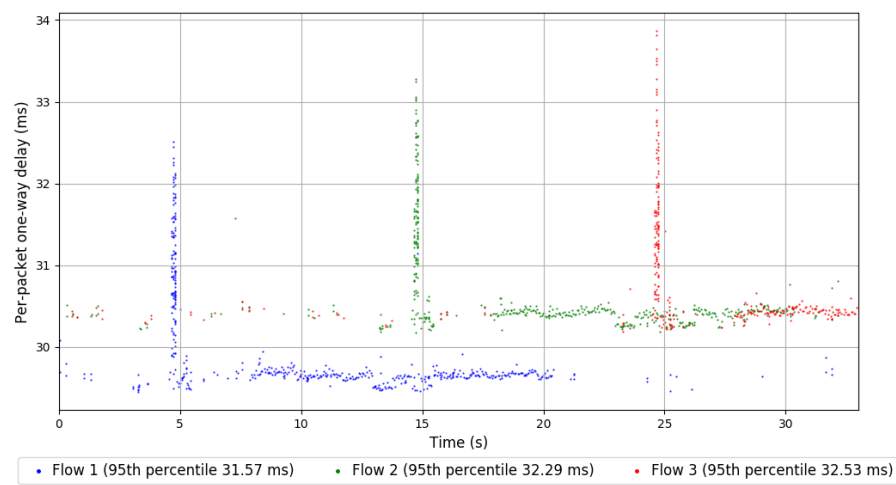
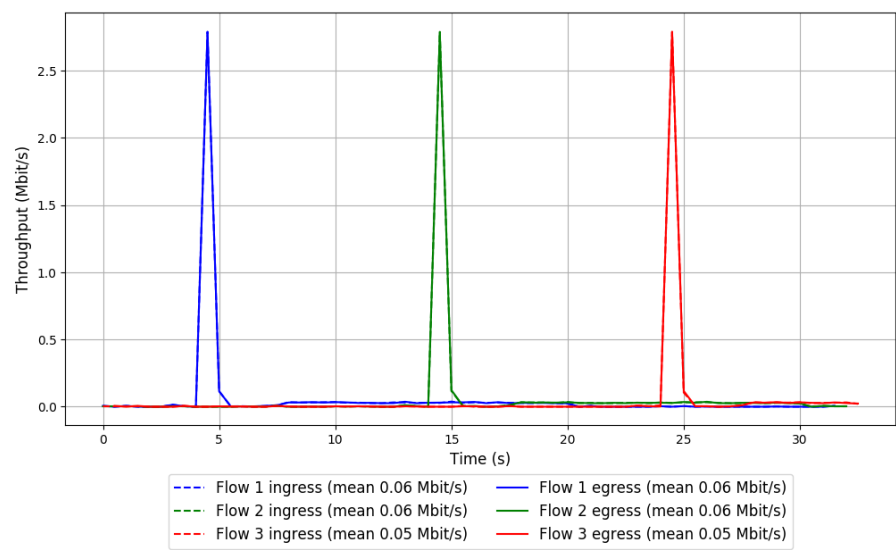


Run 2: Statistics of WebRTC media

Start at: 2018-04-24 21:31:43  
End at: 2018-04-24 21:32:13  
Local clock offset: 1.366 ms  
Remote clock offset: -0.426 ms

# Below is generated by plot.py at 2018-04-25 01:48:26  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.16 Mbit/s  
95th percentile per-packet one-way delay: 32.079 ms  
Loss rate: 0.02%  
-- Flow 1:  
Average throughput: 0.06 Mbit/s  
95th percentile per-packet one-way delay: 31.575 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.06 Mbit/s  
95th percentile per-packet one-way delay: 32.287 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 32.532 ms  
Loss rate: 0.08%

Run 2: Report of WebRTC media — Data Link

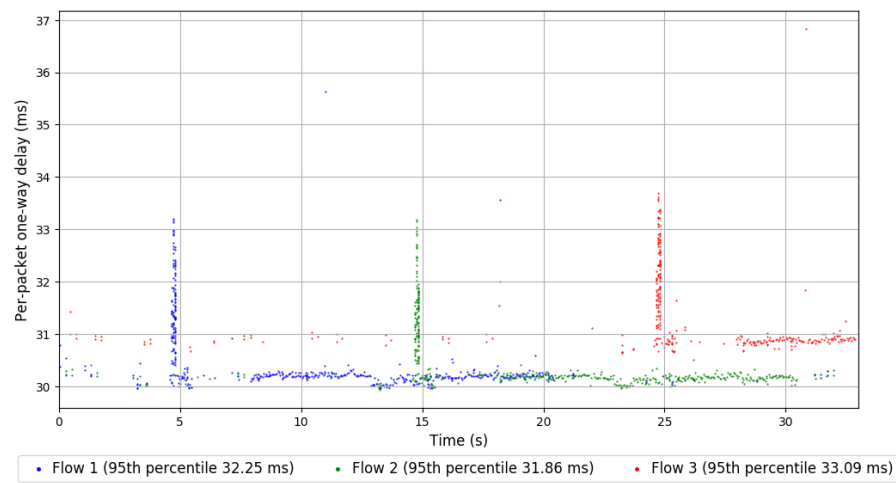
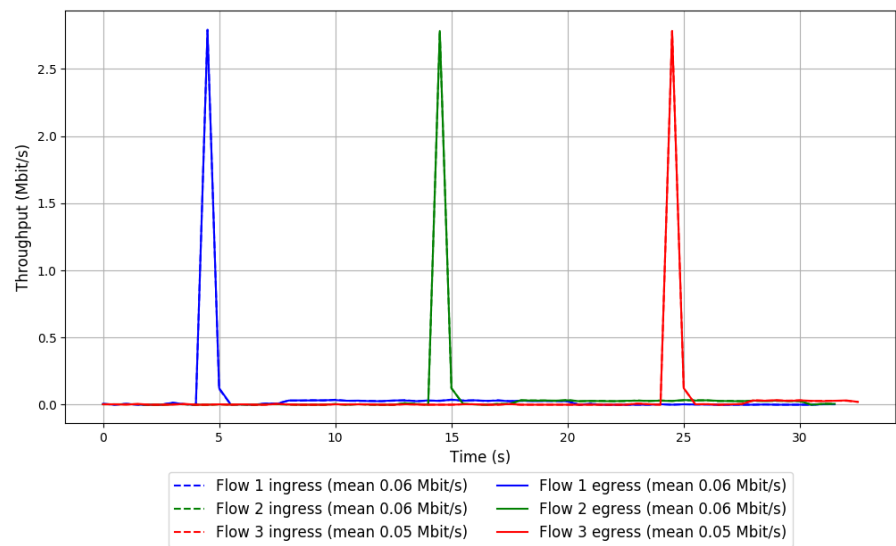


Run 3: Statistics of WebRTC media

Start at: 2018-04-24 21:56:55  
End at: 2018-04-24 21:57:25  
Local clock offset: 0.443 ms  
Remote clock offset: -0.238 ms

# Below is generated by plot.py at 2018-04-25 01:48:26  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.16 Mbit/s  
95th percentile per-packet one-way delay: 32.538 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.06 Mbit/s  
95th percentile per-packet one-way delay: 32.249 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.06 Mbit/s  
95th percentile per-packet one-way delay: 31.861 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 33.093 ms  
Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link

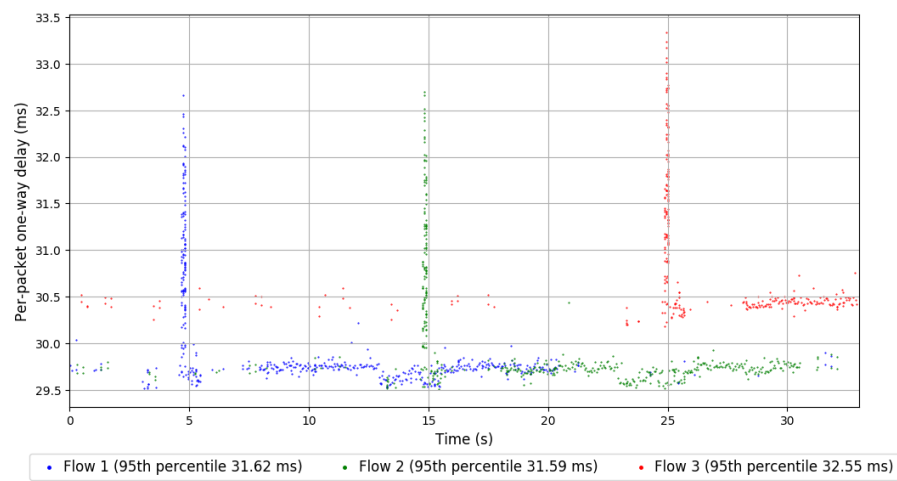
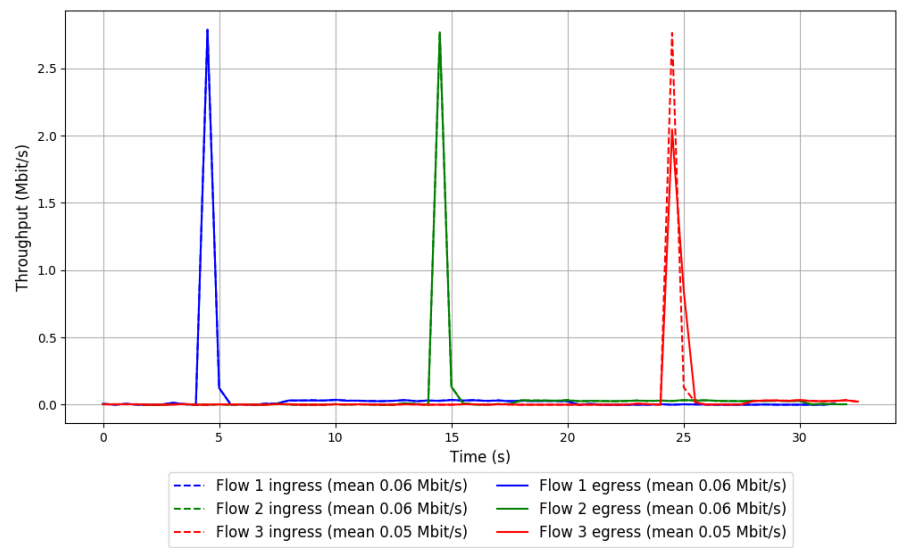


Run 4: Statistics of WebRTC media

Start at: 2018-04-24 22:22:02  
End at: 2018-04-24 22:22:32  
Local clock offset: 0.332 ms  
Remote clock offset: -0.068 ms

# Below is generated by plot.py at 2018-04-25 01:48:26  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.16 Mbit/s  
95th percentile per-packet one-way delay: 31.920 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.06 Mbit/s  
95th percentile per-packet one-way delay: 31.618 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.06 Mbit/s  
95th percentile per-packet one-way delay: 31.591 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 32.550 ms  
Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link





Run 5: Statistics of WebRTC media

Start at: 2018-04-24 22:46:28

End at: 2018-04-24 22:46:58

Local clock offset: 0.418 ms

Remote clock offset: -0.35 ms

# Below is generated by plot.py at 2018-04-25 01:48:26

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.16 Mbit/s

95th percentile per-packet one-way delay: 32.162 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 32.169 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 32.263 ms

Loss rate: 0.00%

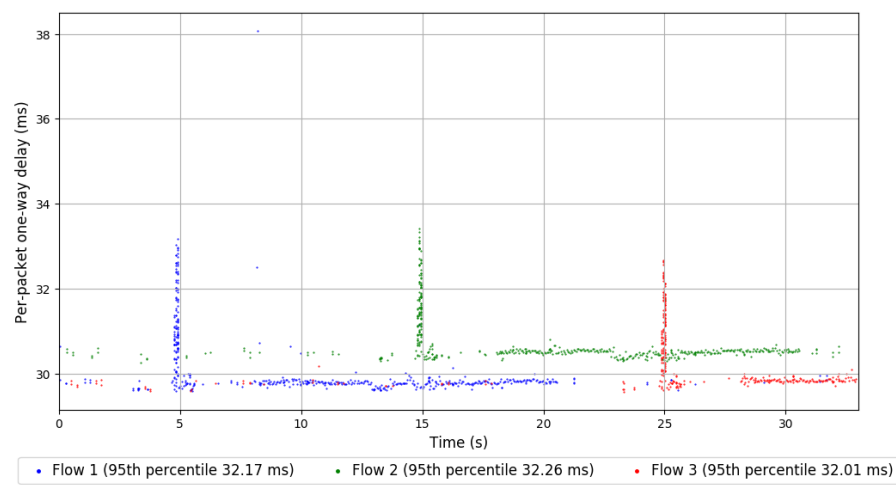
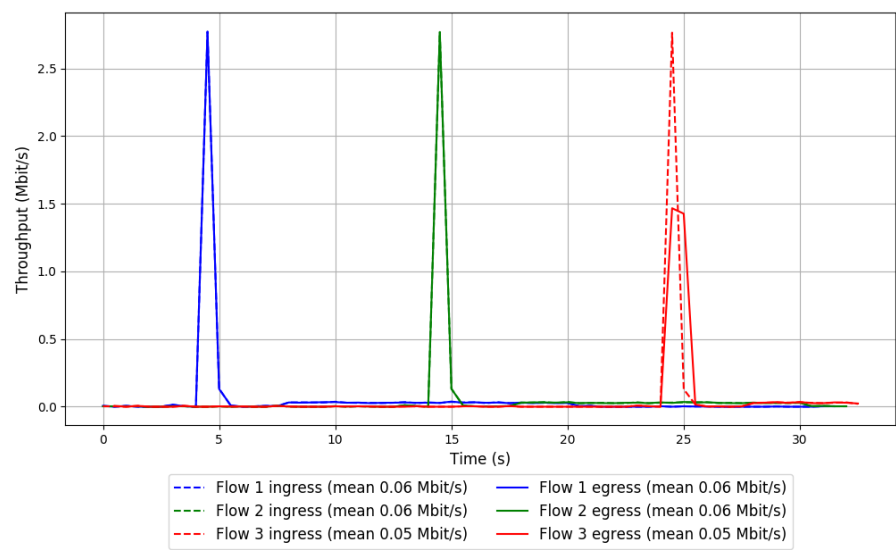
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 32.005 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-04-24 23:11:32

End at: 2018-04-24 23:12:02

Local clock offset: 0.657 ms

Remote clock offset: 0.118 ms

# Below is generated by plot.py at 2018-04-25 01:48:26

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.16 Mbit/s

95th percentile per-packet one-way delay: 31.837 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 31.615 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 31.822 ms

Loss rate: 0.00%

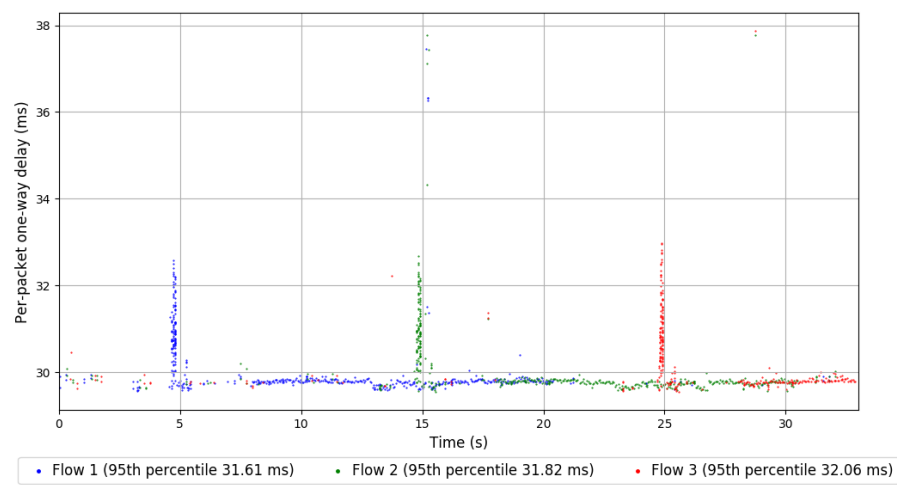
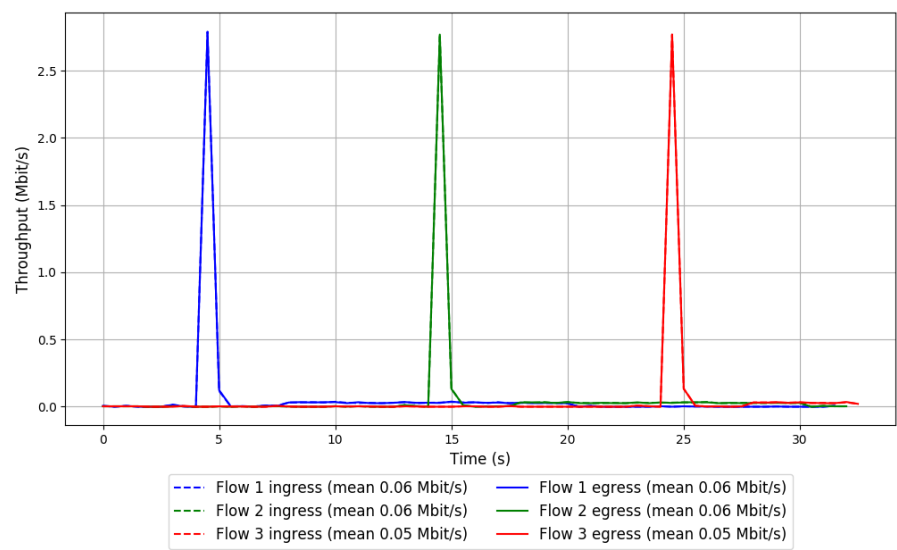
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 32.059 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-04-24 23:36:54

End at: 2018-04-24 23:37:24

Local clock offset: 0.779 ms

Remote clock offset: 0.623 ms

# Below is generated by plot.py at 2018-04-25 01:48:26

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.16 Mbit/s

95th percentile per-packet one-way delay: 32.342 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 31.714 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 32.400 ms

Loss rate: 0.00%

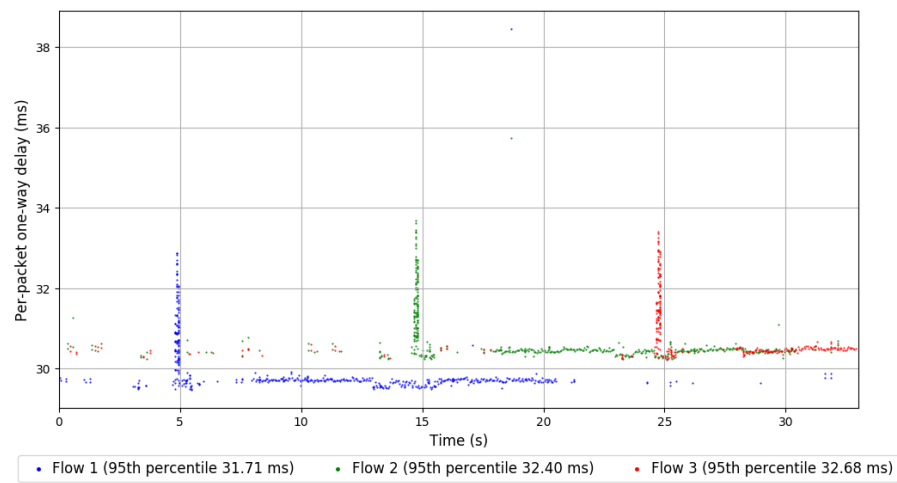
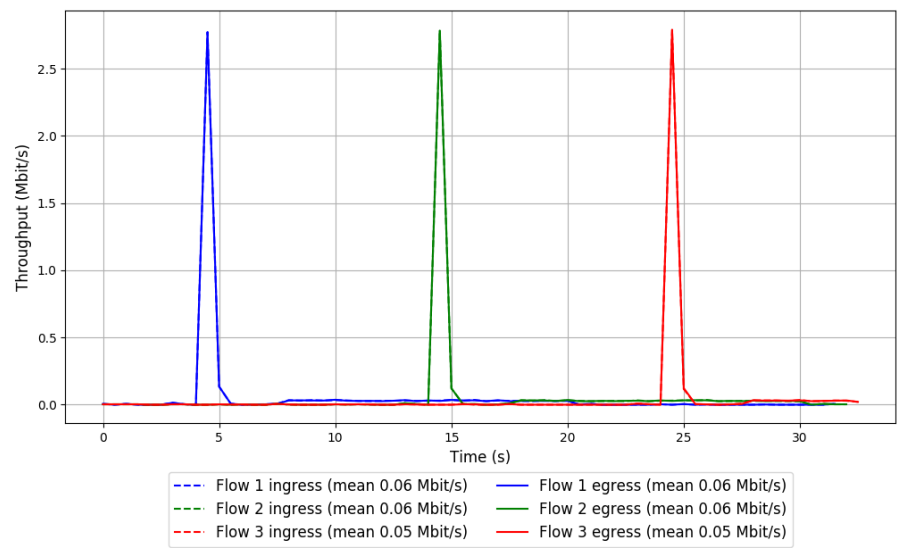
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 32.679 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-04-25 00:02:01

End at: 2018-04-25 00:02:31

Local clock offset: 0.885 ms

Remote clock offset: 0.453 ms

# Below is generated by plot.py at 2018-04-25 01:48:26

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.16 Mbit/s

95th percentile per-packet one-way delay: 32.225 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 31.912 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 31.603 ms

Loss rate: 0.00%

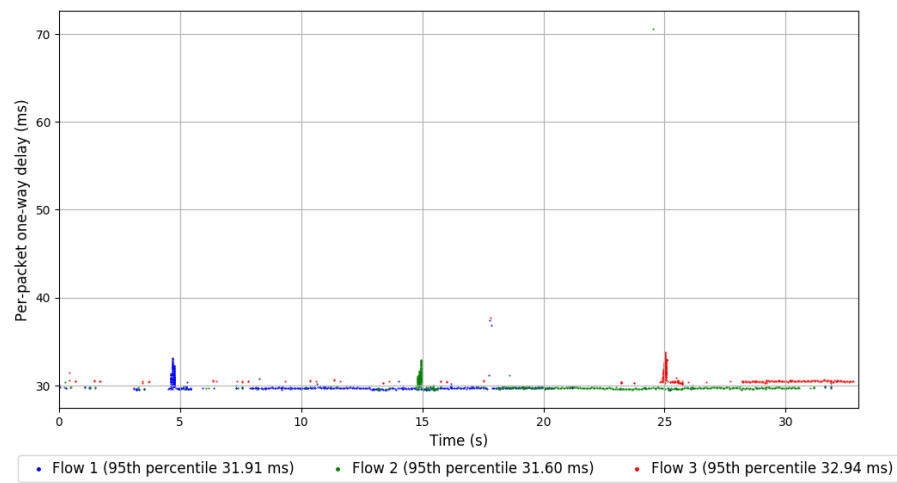
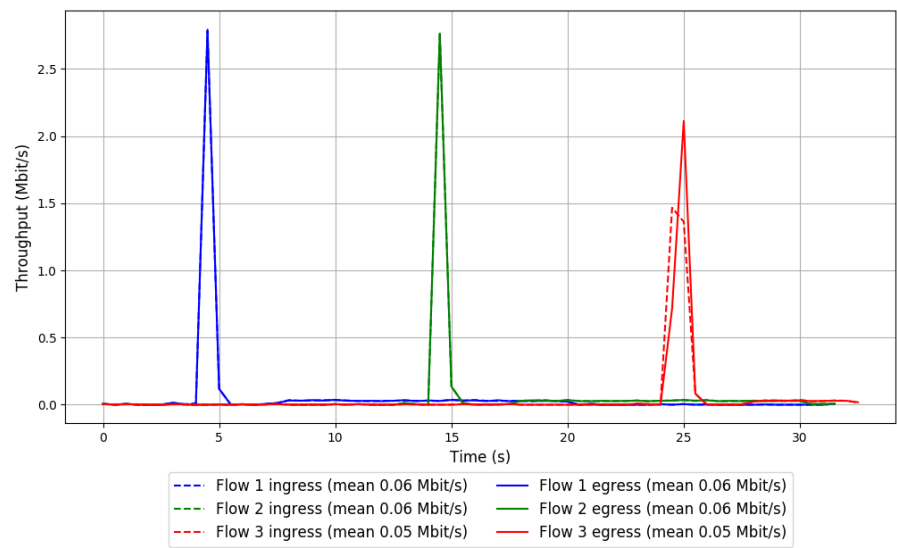
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 32.943 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



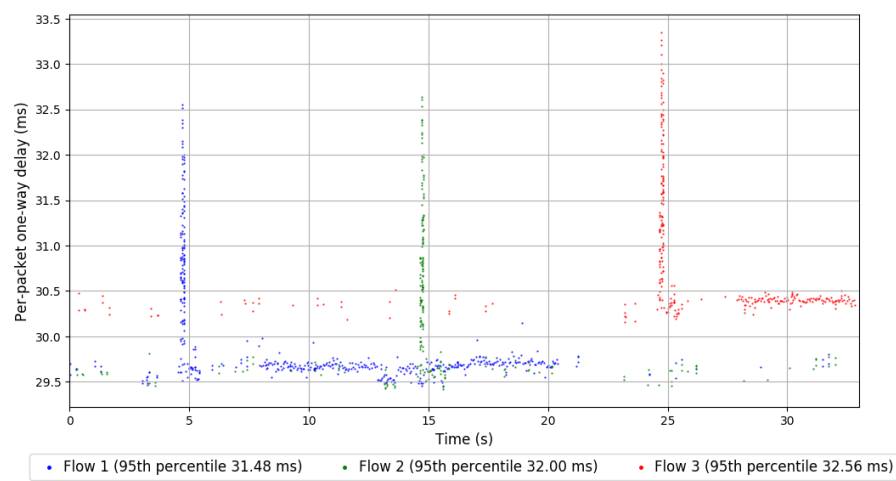
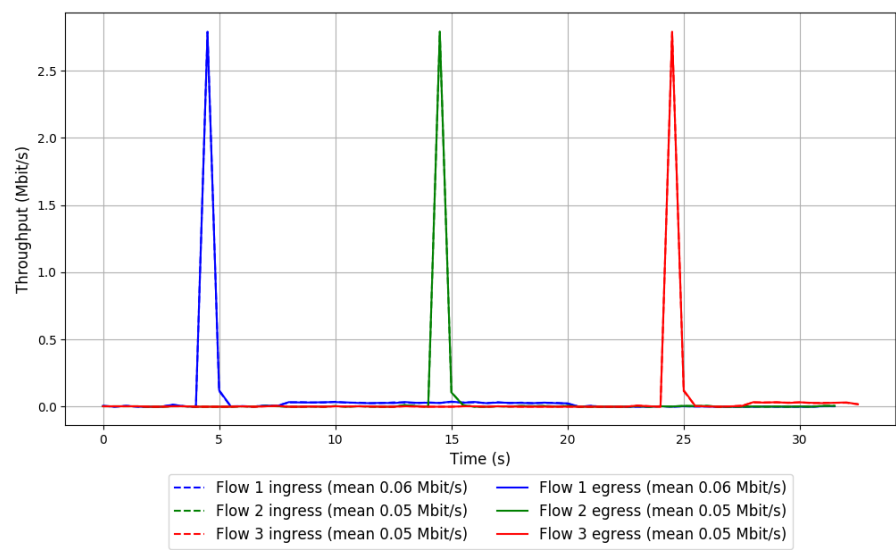


Run 9: Statistics of WebRTC media

Start at: 2018-04-25 00:27:45  
End at: 2018-04-25 00:28:15  
Local clock offset: 1.139 ms  
Remote clock offset: -0.399 ms

# Below is generated by plot.py at 2018-04-25 01:48:26  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.15 Mbit/s  
95th percentile per-packet one-way delay: 32.056 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.06 Mbit/s  
95th percentile per-packet one-way delay: 31.482 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 32.003 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 32.562 ms  
Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link

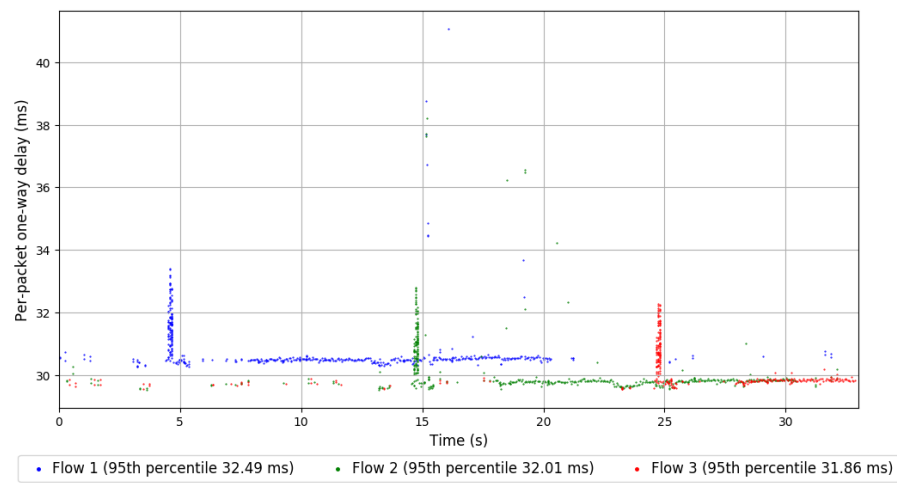
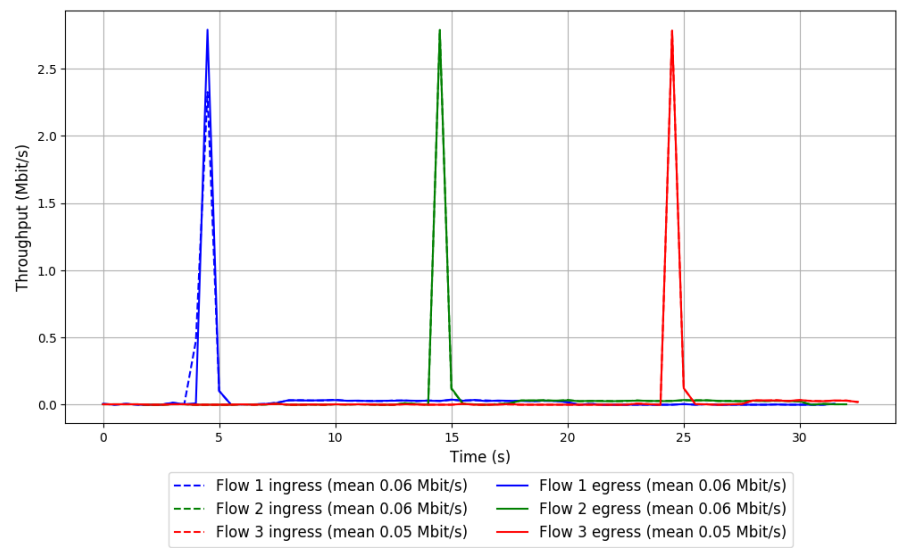


Run 10: Statistics of WebRTC media

Start at: 2018-04-25 00:54:48  
End at: 2018-04-25 00:55:18  
Local clock offset: 1.166 ms  
Remote clock offset: -2.953 ms

# Below is generated by plot.py at 2018-04-25 01:48:26  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.16 Mbit/s  
95th percentile per-packet one-way delay: 32.104 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.06 Mbit/s  
95th percentile per-packet one-way delay: 32.490 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.06 Mbit/s  
95th percentile per-packet one-way delay: 32.006 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 31.859 ms  
Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

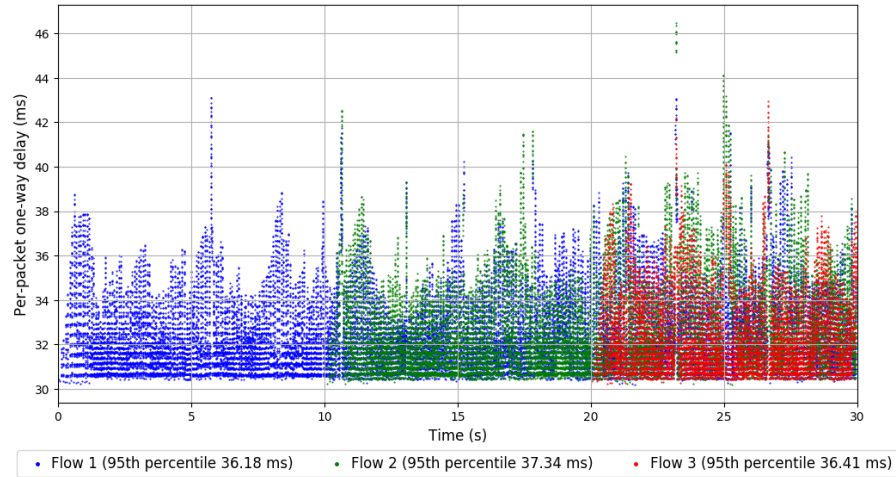
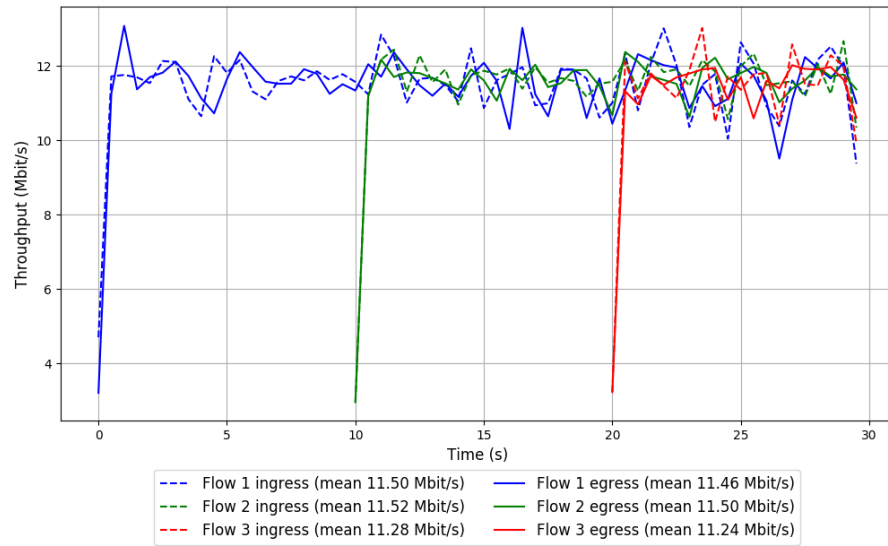


Run 1: Statistics of Sprout

Start at: 2018-04-24 21:24:06  
End at: 2018-04-24 21:24:36  
Local clock offset: 1.325 ms  
Remote clock offset: -0.356 ms

# Below is generated by plot.py at 2018-04-25 01:48:26  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 22.83 Mbit/s  
95th percentile per-packet one-way delay: 36.635 ms  
Loss rate: 0.26%  
-- Flow 1:  
Average throughput: 11.46 Mbit/s  
95th percentile per-packet one-way delay: 36.180 ms  
Loss rate: 0.29%  
-- Flow 2:  
Average throughput: 11.50 Mbit/s  
95th percentile per-packet one-way delay: 37.341 ms  
Loss rate: 0.21%  
-- Flow 3:  
Average throughput: 11.24 Mbit/s  
95th percentile per-packet one-way delay: 36.414 ms  
Loss rate: 0.28%

## Run 1: Report of Sprout — Data Link

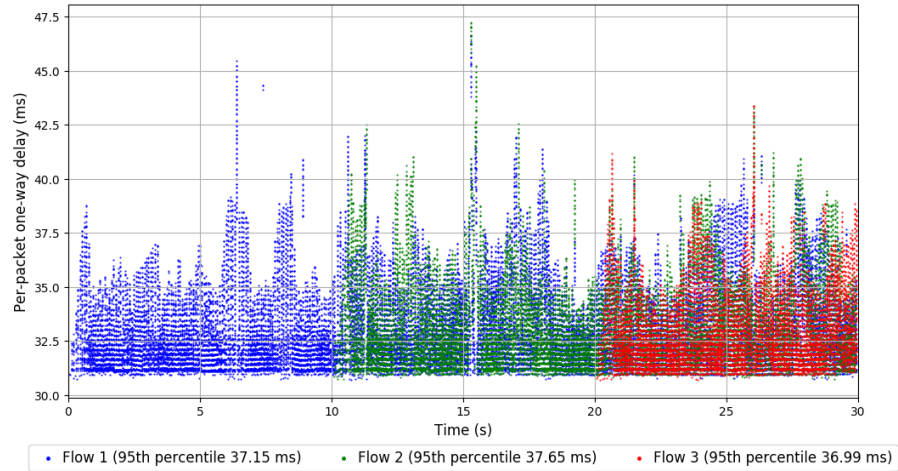
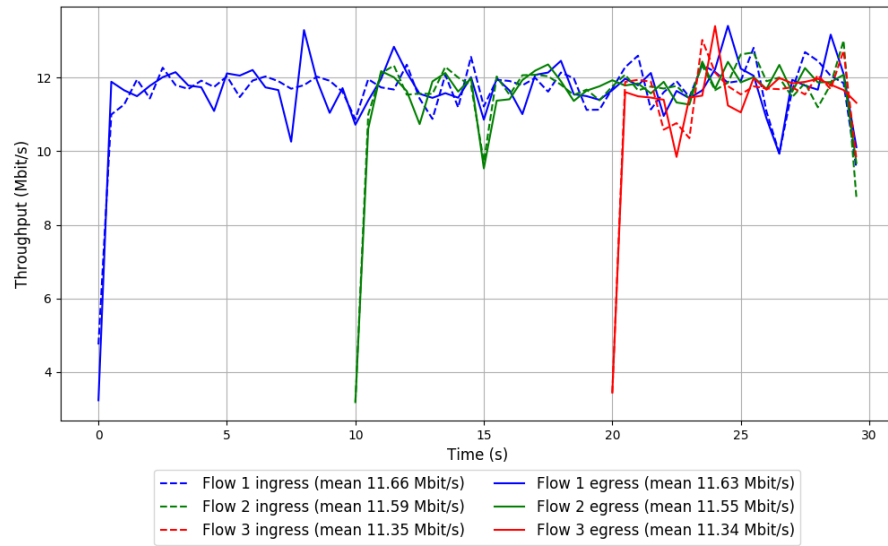


Run 2: Statistics of Sprout

Start at: 2018-04-24 21:49:24  
End at: 2018-04-24 21:49:54  
Local clock offset: 0.585 ms  
Remote clock offset: -0.341 ms

# Below is generated by plot.py at 2018-04-25 01:48:26  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 23.05 Mbit/s  
95th percentile per-packet one-way delay: 37.281 ms  
Loss rate: 0.23%  
-- Flow 1:  
Average throughput: 11.63 Mbit/s  
95th percentile per-packet one-way delay: 37.147 ms  
Loss rate: 0.22%  
-- Flow 2:  
Average throughput: 11.55 Mbit/s  
95th percentile per-packet one-way delay: 37.654 ms  
Loss rate: 0.35%  
-- Flow 3:  
Average throughput: 11.34 Mbit/s  
95th percentile per-packet one-way delay: 36.990 ms  
Loss rate: 0.00%

## Run 2: Report of Sprout — Data Link





### Run 3: Statistics of Sprout

Start at: 2018-04-24 22:14:58

End at: 2018-04-24 22:15:28

Local clock offset: 0.416 ms

Remote clock offset: 0.395 ms

# Below is generated by plot.py at 2018-04-25 01:48:26

# Datalink statistics

-- Total of 3 flows:

Average throughput: 23.27 Mbit/s

95th percentile per-packet one-way delay: 37.600 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 11.72 Mbit/s

95th percentile per-packet one-way delay: 37.742 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 11.68 Mbit/s

95th percentile per-packet one-way delay: 37.879 ms

Loss rate: 0.00%

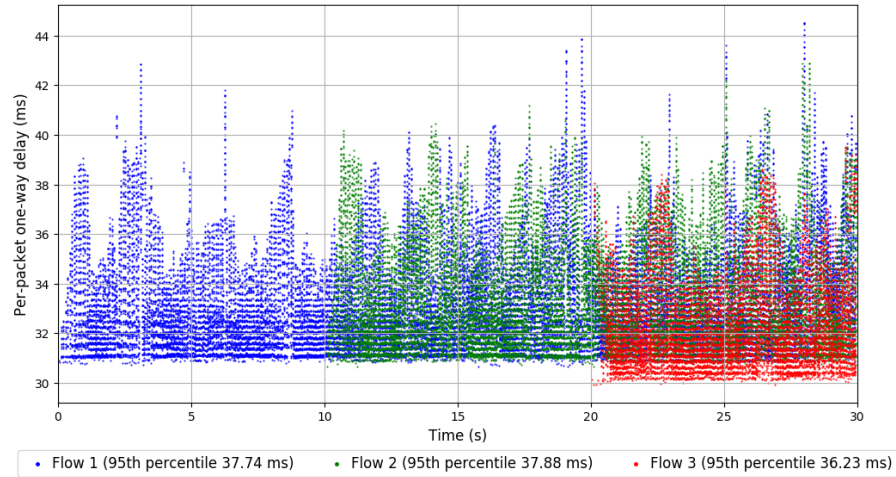
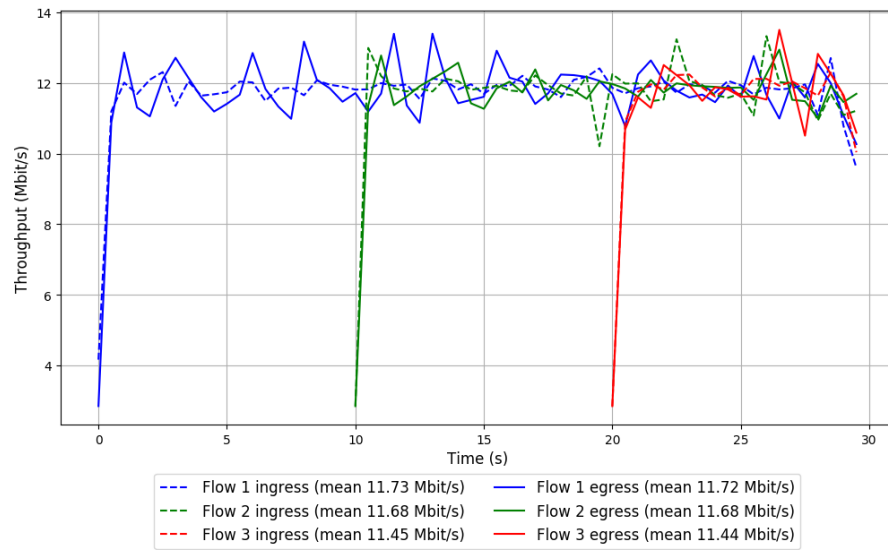
-- Flow 3:

Average throughput: 11.44 Mbit/s

95th percentile per-packet one-way delay: 36.227 ms

Loss rate: 0.00%

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

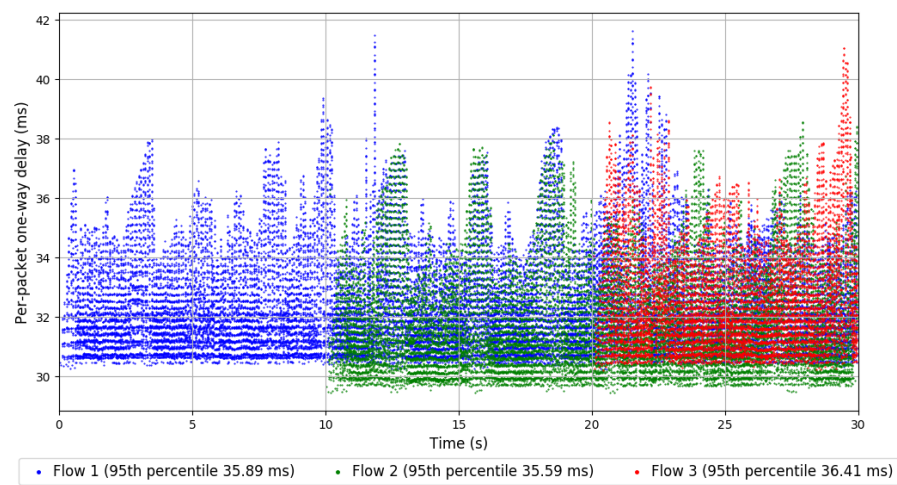
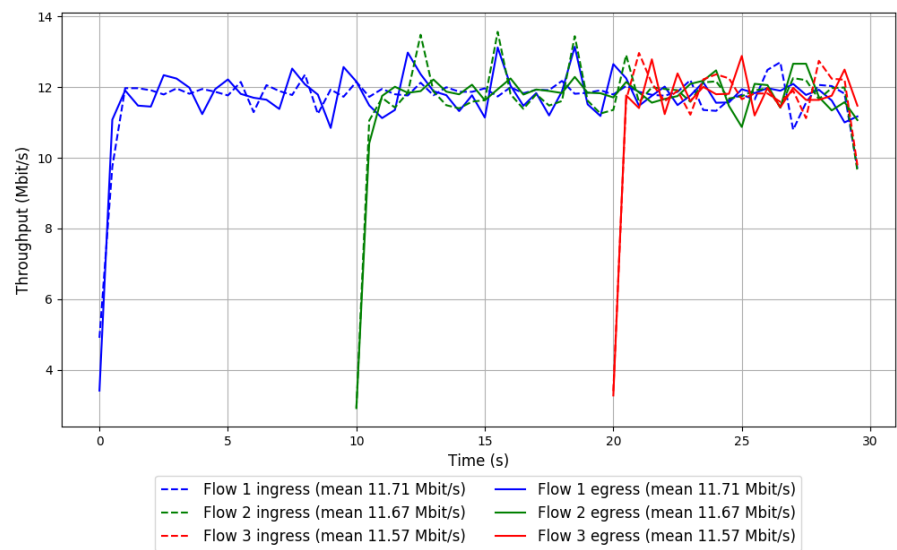


#### Run 4: Statistics of Sprout

Start at: 2018-04-24 22:39:06  
End at: 2018-04-24 22:39:36  
Local clock offset: 0.258 ms  
Remote clock offset: -0.273 ms

```
# Below is generated by plot.py at 2018-04-25 01:48:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 23.29 Mbit/s
95th percentile per-packet one-way delay: 35.919 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 11.71 Mbit/s
95th percentile per-packet one-way delay: 35.894 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 11.67 Mbit/s
95th percentile per-packet one-way delay: 35.590 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 11.57 Mbit/s
95th percentile per-packet one-way delay: 36.405 ms
Loss rate: 0.00%
```

Run 4: Report of Sprout — Data Link

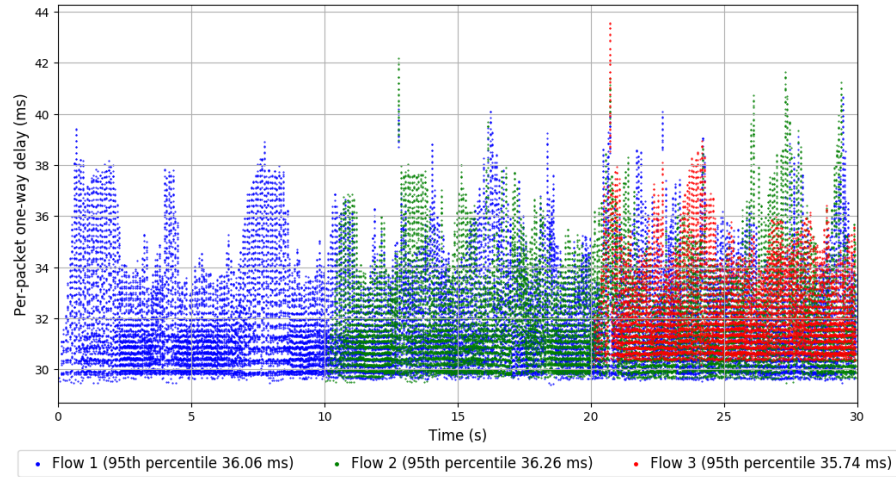
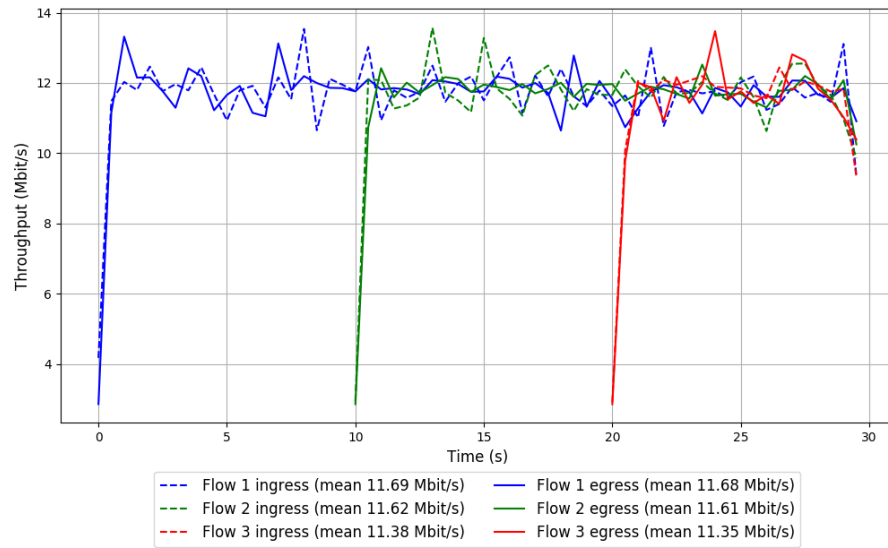


Run 5: Statistics of Sprout

Start at: 2018-04-24 23:03:40  
End at: 2018-04-24 23:04:10  
Local clock offset: 0.723 ms  
Remote clock offset: -0.426 ms

```
# Below is generated by plot.py at 2018-04-25 01:48:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 23.15 Mbit/s
95th percentile per-packet one-way delay: 36.095 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 11.68 Mbit/s
95th percentile per-packet one-way delay: 36.064 ms
Loss rate: 0.09%
-- Flow 2:
Average throughput: 11.61 Mbit/s
95th percentile per-packet one-way delay: 36.255 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 11.35 Mbit/s
95th percentile per-packet one-way delay: 35.736 ms
Loss rate: 0.27%
```

## Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-04-24 23:29:10

End at: 2018-04-24 23:29:40

Local clock offset: 0.791 ms

Remote clock offset: 0.912 ms

# Below is generated by plot.py at 2018-04-25 01:48:26

# Datalink statistics

-- Total of 3 flows:

Average throughput: 22.90 Mbit/s

95th percentile per-packet one-way delay: 37.385 ms

Loss rate: 0.20%

-- Flow 1:

Average throughput: 11.53 Mbit/s

95th percentile per-packet one-way delay: 36.907 ms

Loss rate: 0.29%

-- Flow 2:

Average throughput: 11.50 Mbit/s

95th percentile per-packet one-way delay: 37.728 ms

Loss rate: 0.16%

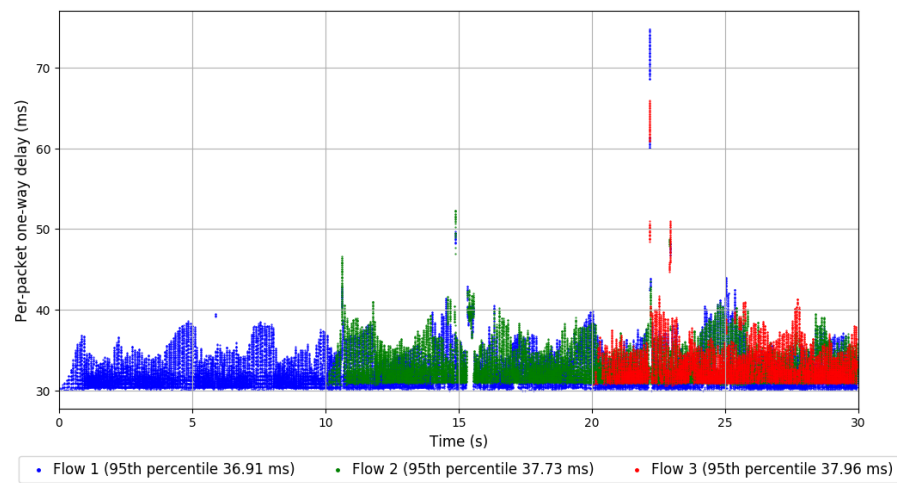
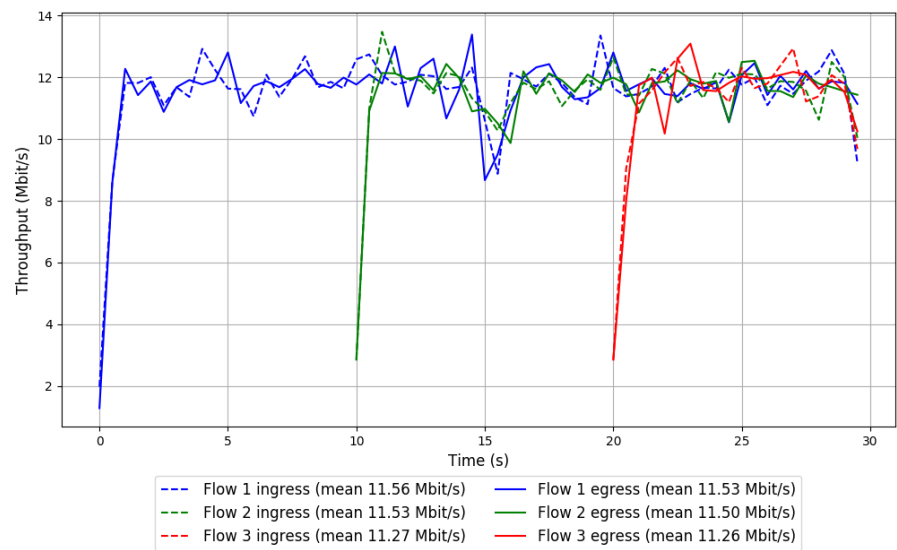
-- Flow 3:

Average throughput: 11.26 Mbit/s

95th percentile per-packet one-way delay: 37.963 ms

Loss rate: 0.00%

Run 6: Report of Sprout — Data Link



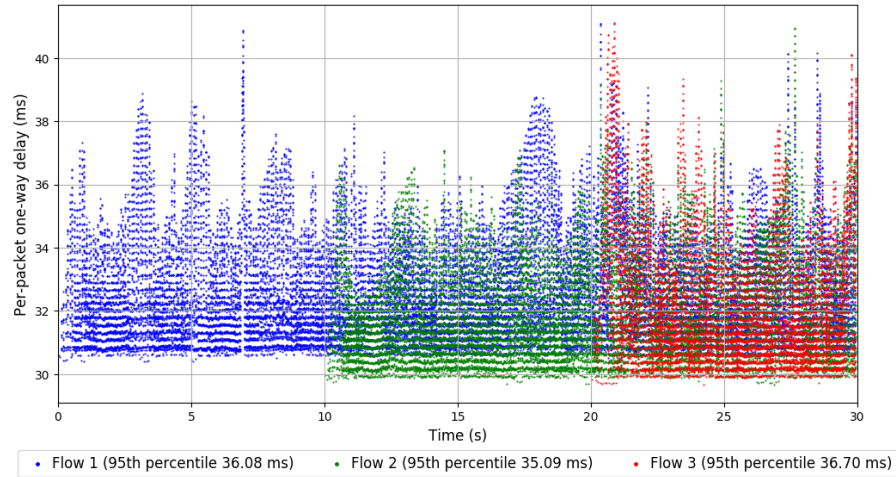
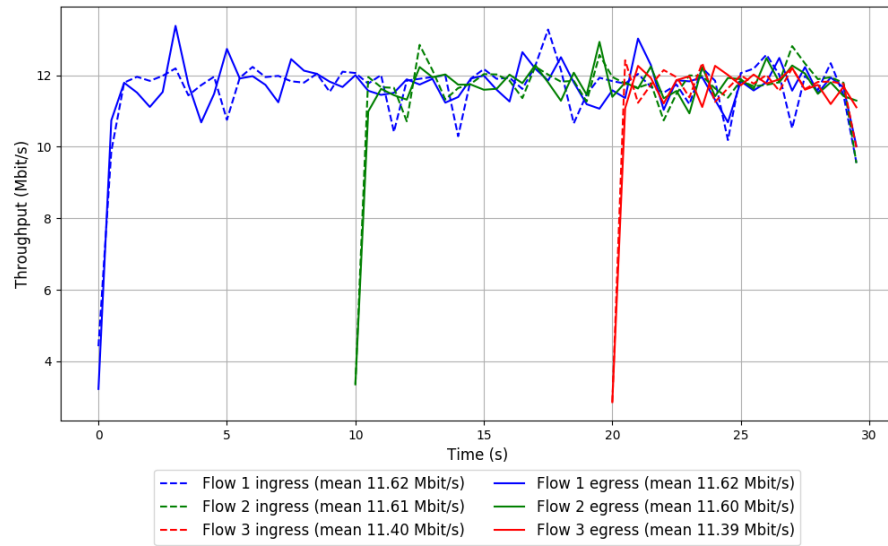


Run 7: Statistics of Sprout

Start at: 2018-04-24 23:54:10  
End at: 2018-04-24 23:54:40  
Local clock offset: 0.744 ms  
Remote clock offset: 0.36 ms

# Below is generated by plot.py at 2018-04-25 01:48:26  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 23.10 Mbit/s  
95th percentile per-packet one-way delay: 35.877 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 11.62 Mbit/s  
95th percentile per-packet one-way delay: 36.083 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 11.60 Mbit/s  
95th percentile per-packet one-way delay: 35.090 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 11.39 Mbit/s  
95th percentile per-packet one-way delay: 36.701 ms  
Loss rate: 0.00%

## Run 7: Report of Sprout — Data Link

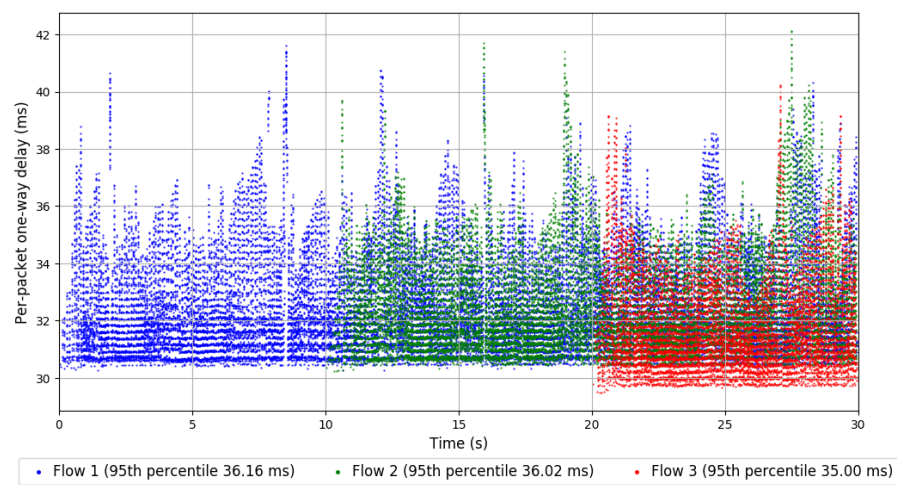
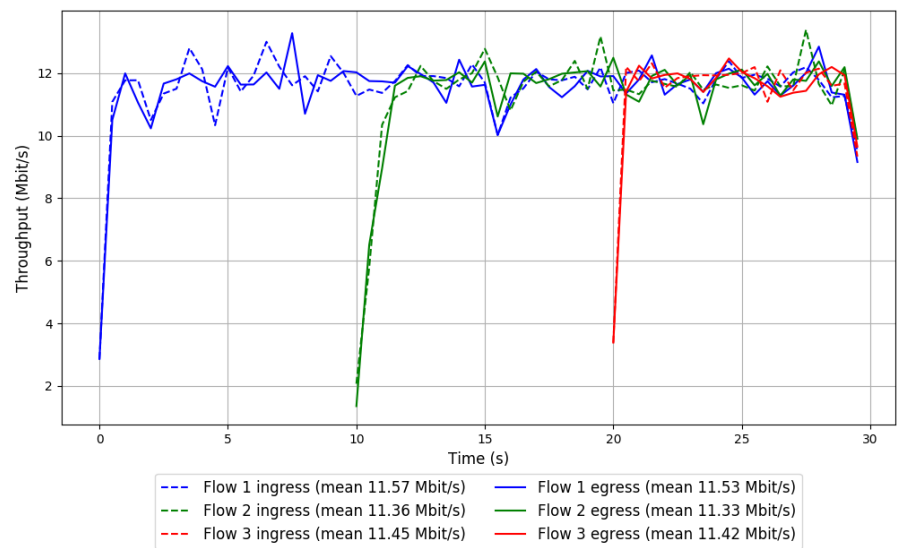


Run 8: Statistics of Sprout

Start at: 2018-04-25 00:19:59  
End at: 2018-04-25 00:20:29  
Local clock offset: 1.108 ms  
Remote clock offset: -0.166 ms

# Below is generated by plot.py at 2018-04-25 01:48:26  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 22.84 Mbit/s  
95th percentile per-packet one-way delay: 35.995 ms  
Loss rate: 0.30%  
-- Flow 1:  
Average throughput: 11.53 Mbit/s  
95th percentile per-packet one-way delay: 36.156 ms  
Loss rate: 0.31%  
-- Flow 2:  
Average throughput: 11.33 Mbit/s  
95th percentile per-packet one-way delay: 36.020 ms  
Loss rate: 0.29%  
-- Flow 3:  
Average throughput: 11.42 Mbit/s  
95th percentile per-packet one-way delay: 34.999 ms  
Loss rate: 0.32%

Run 8: Report of Sprout — Data Link

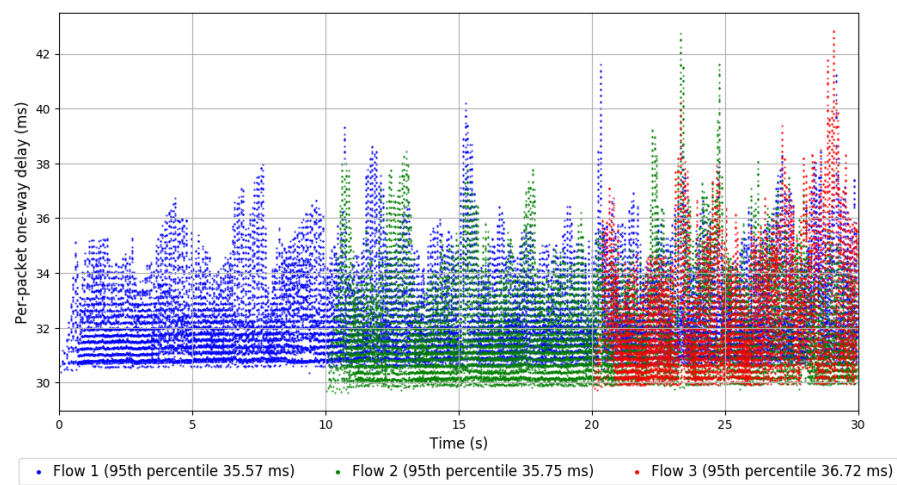
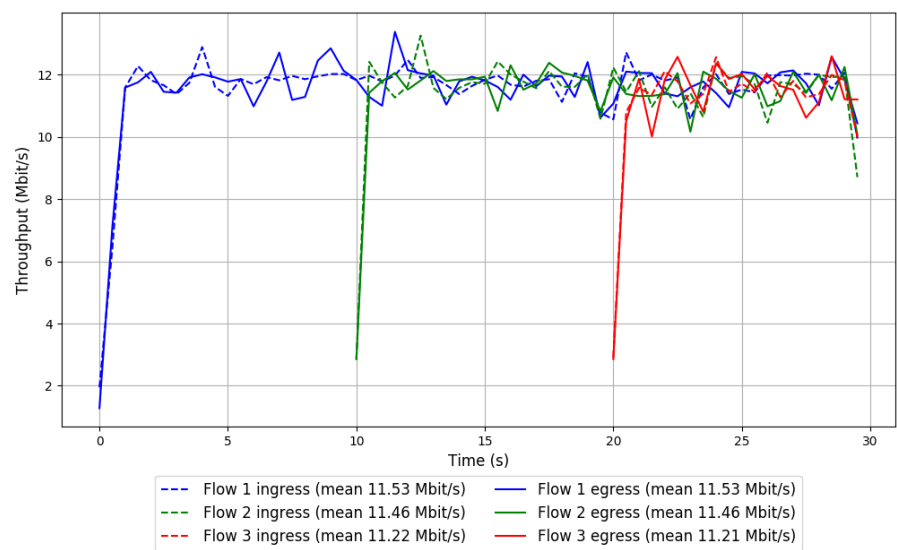


Run 9: Statistics of Sprout

Start at: 2018-04-25 00:46:23  
End at: 2018-04-25 00:46:53  
Local clock offset: 1.068 ms  
Remote clock offset: -1.175 ms

# Below is generated by plot.py at 2018-04-25 01:48:26  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 22.85 Mbit/s  
95th percentile per-packet one-way delay: 35.835 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 11.53 Mbit/s  
95th percentile per-packet one-way delay: 35.572 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 11.46 Mbit/s  
95th percentile per-packet one-way delay: 35.751 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 11.21 Mbit/s  
95th percentile per-packet one-way delay: 36.718 ms  
Loss rate: 0.00%

Run 9: Report of Sprout — Data Link

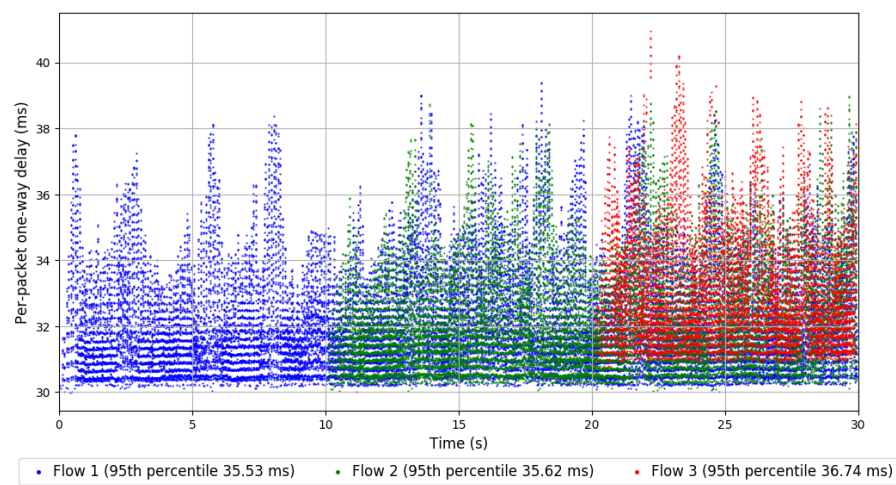
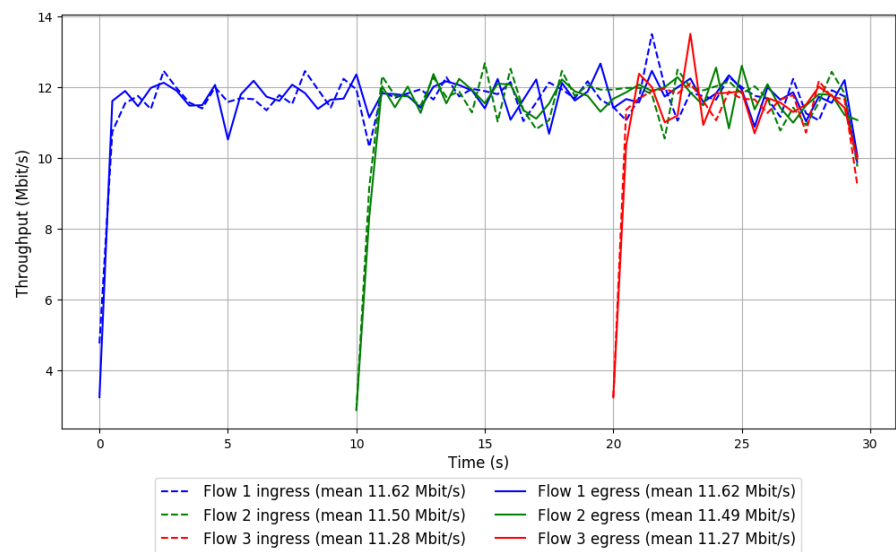


Run 10: Statistics of Sprout

Start at: 2018-04-25 01:13:54  
End at: 2018-04-25 01:14:24  
Local clock offset: 1.087 ms  
Remote clock offset: -4.317 ms

# Below is generated by plot.py at 2018-04-25 01:48:26  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 22.97 Mbit/s  
95th percentile per-packet one-way delay: 35.829 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 11.62 Mbit/s  
95th percentile per-packet one-way delay: 35.527 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 11.49 Mbit/s  
95th percentile per-packet one-way delay: 35.619 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 11.27 Mbit/s  
95th percentile per-packet one-way delay: 36.743 ms  
Loss rate: 0.00%

Run 10: Report of Sprout — Data Link



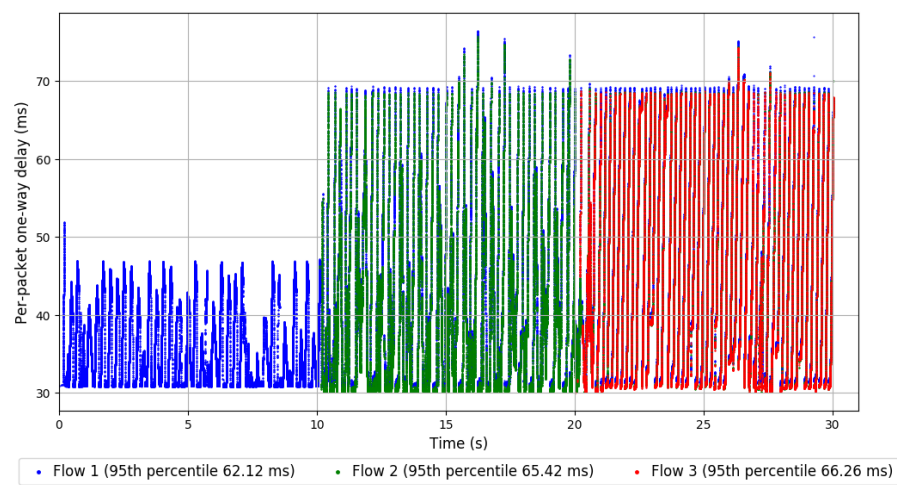
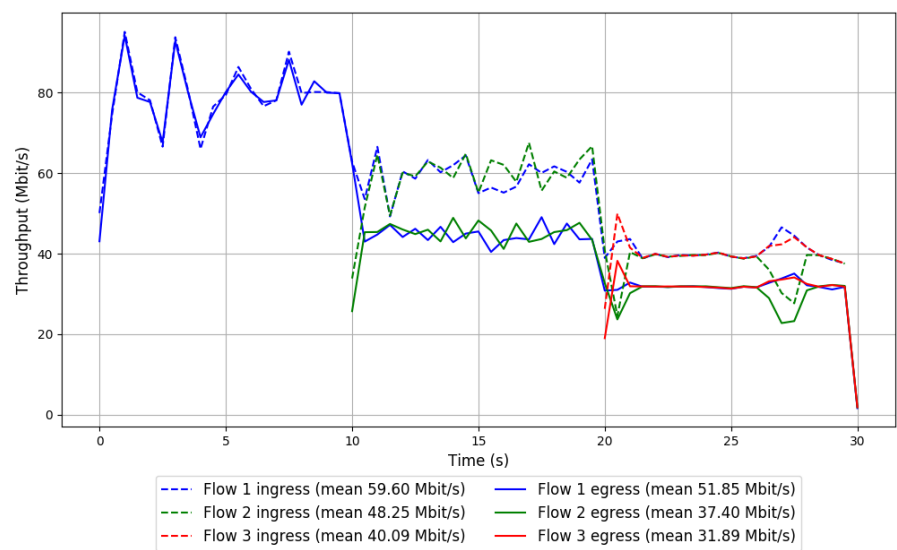


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-04-24 21:02:55
End at: 2018-04-24 21:03:25
Local clock offset: 1.254 ms
Remote clock offset: 0.364 ms

# Below is generated by plot.py at 2018-04-25 01:50:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.38 Mbit/s
95th percentile per-packet one-way delay: 64.478 ms
Loss rate: 16.71%
-- Flow 1:
Average throughput: 51.85 Mbit/s
95th percentile per-packet one-way delay: 62.120 ms
Loss rate: 12.90%
-- Flow 2:
Average throughput: 37.40 Mbit/s
95th percentile per-packet one-way delay: 65.419 ms
Loss rate: 22.35%
-- Flow 3:
Average throughput: 31.89 Mbit/s
95th percentile per-packet one-way delay: 66.261 ms
Loss rate: 20.15%
```

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

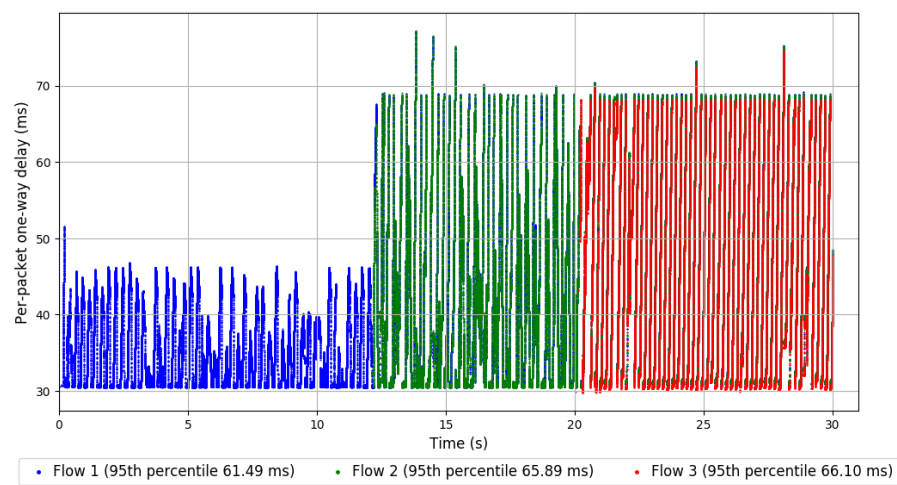
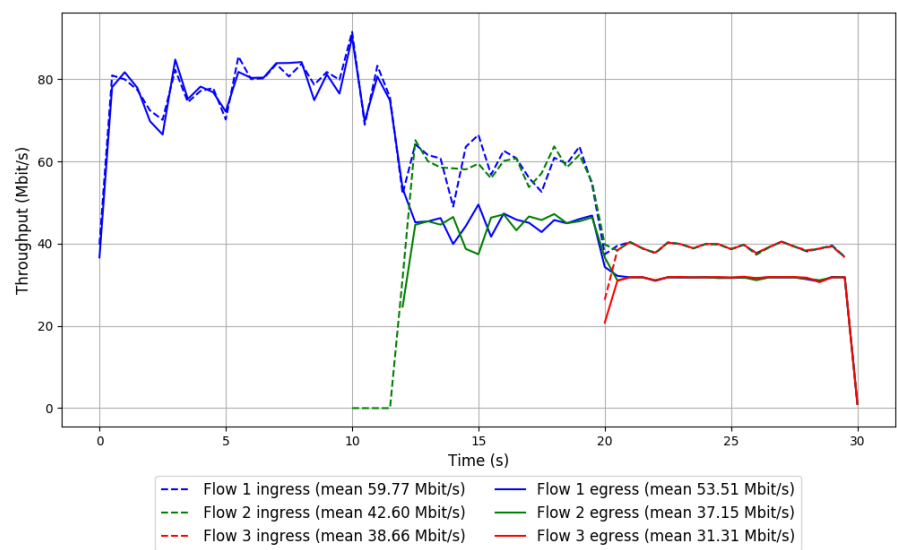


Run 2: Statistics of TaoVA-100x

Start at: 2018-04-24 21:28:16  
End at: 2018-04-24 21:28:46  
Local clock offset: 1.359 ms  
Remote clock offset: -0.307 ms

# Below is generated by plot.py at 2018-04-25 01:50:49  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 86.16 Mbit/s  
95th percentile per-packet one-way delay: 64.157 ms  
Loss rate: 14.62%  
-- Flow 1:  
Average throughput: 53.51 Mbit/s  
95th percentile per-packet one-way delay: 61.488 ms  
Loss rate: 10.43%  
-- Flow 2:  
Average throughput: 37.15 Mbit/s  
95th percentile per-packet one-way delay: 65.894 ms  
Loss rate: 21.52%  
-- Flow 3:  
Average throughput: 31.31 Mbit/s  
95th percentile per-packet one-way delay: 66.102 ms  
Loss rate: 18.88%

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

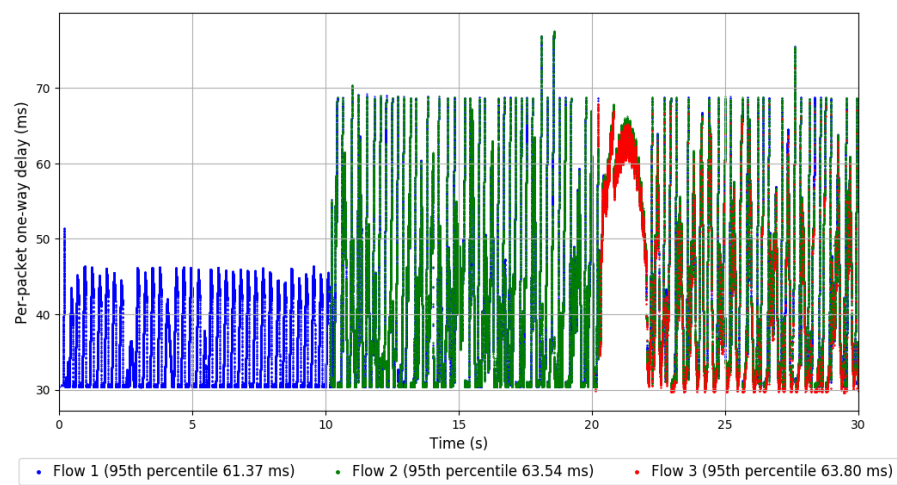
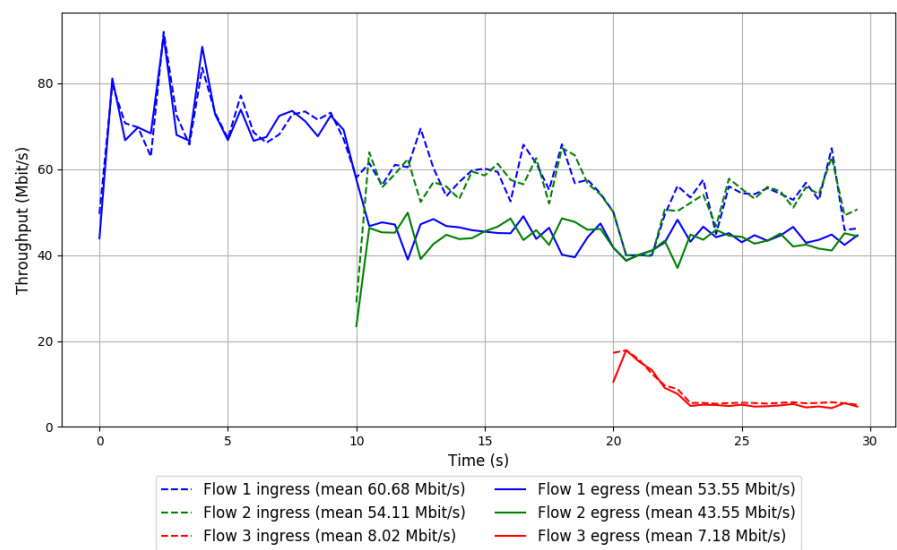


Run 3: Statistics of TaoVA-100x

Start at: 2018-04-24 21:53:41  
End at: 2018-04-24 21:54:11  
Local clock offset: 0.591 ms  
Remote clock offset: -0.888 ms

# Below is generated by plot.py at 2018-04-25 01:50:49  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 84.93 Mbit/s  
95th percentile per-packet one-way delay: 62.529 ms  
Loss rate: 14.54%  
-- Flow 1:  
Average throughput: 53.55 Mbit/s  
95th percentile per-packet one-way delay: 61.374 ms  
Loss rate: 11.75%  
-- Flow 2:  
Average throughput: 43.55 Mbit/s  
95th percentile per-packet one-way delay: 63.540 ms  
Loss rate: 19.55%  
-- Flow 3:  
Average throughput: 7.18 Mbit/s  
95th percentile per-packet one-way delay: 63.801 ms  
Loss rate: 10.42%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-04-24 22:19:03

End at: 2018-04-24 22:19:33

Local clock offset: 0.34 ms

Remote clock offset: 0.452 ms

# Below is generated by plot.py at 2018-04-25 01:50:55

# Datalink statistics

-- Total of 3 flows:

Average throughput: 87.10 Mbit/s

95th percentile per-packet one-way delay: 64.045 ms

Loss rate: 16.46%

-- Flow 1:

Average throughput: 51.11 Mbit/s

95th percentile per-packet one-way delay: 61.660 ms

Loss rate: 12.22%

-- Flow 2:

Average throughput: 38.34 Mbit/s

95th percentile per-packet one-way delay: 65.130 ms

Loss rate: 22.52%

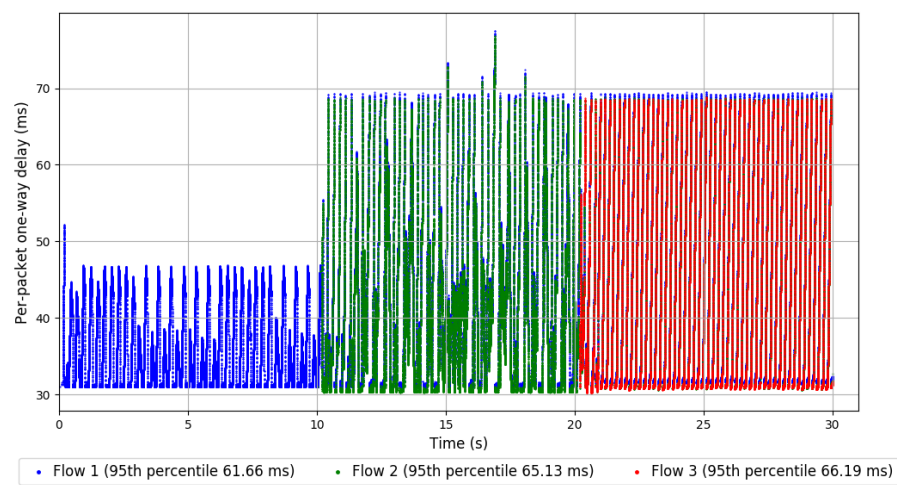
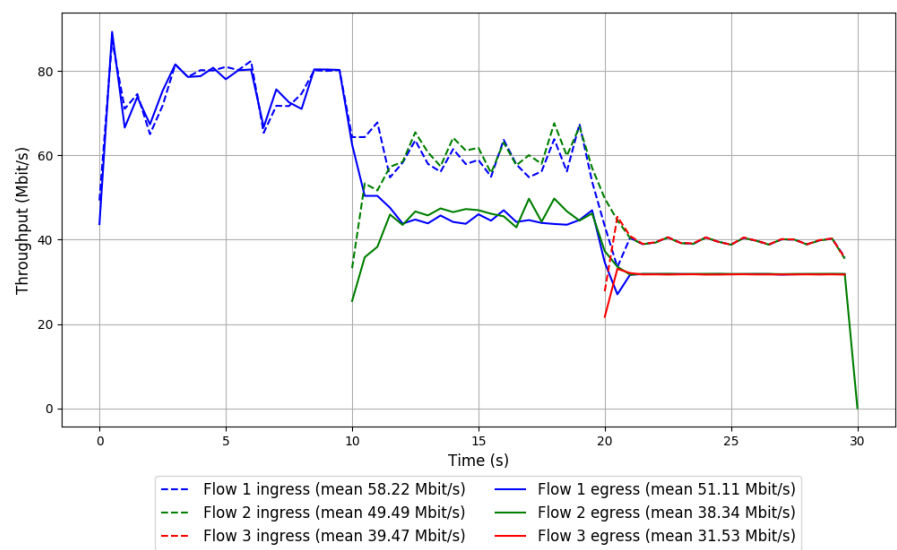
-- Flow 3:

Average throughput: 31.53 Mbit/s

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

Loss rate: 20.11%

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



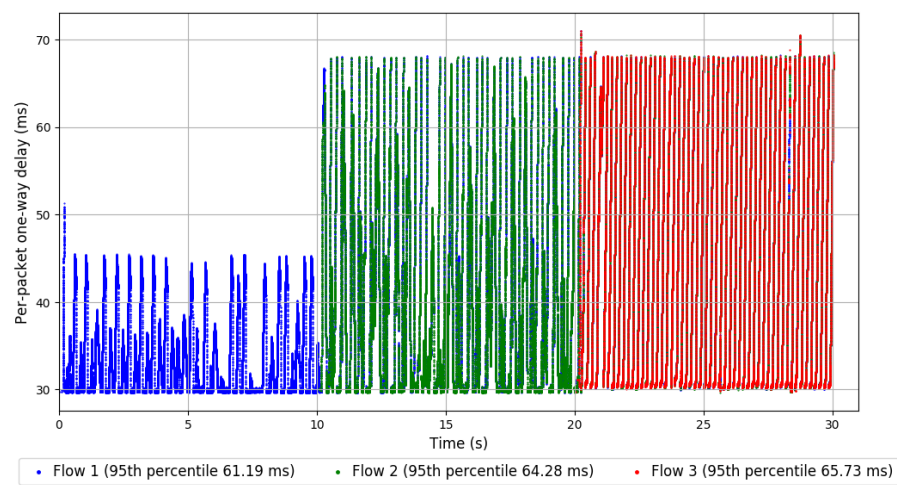
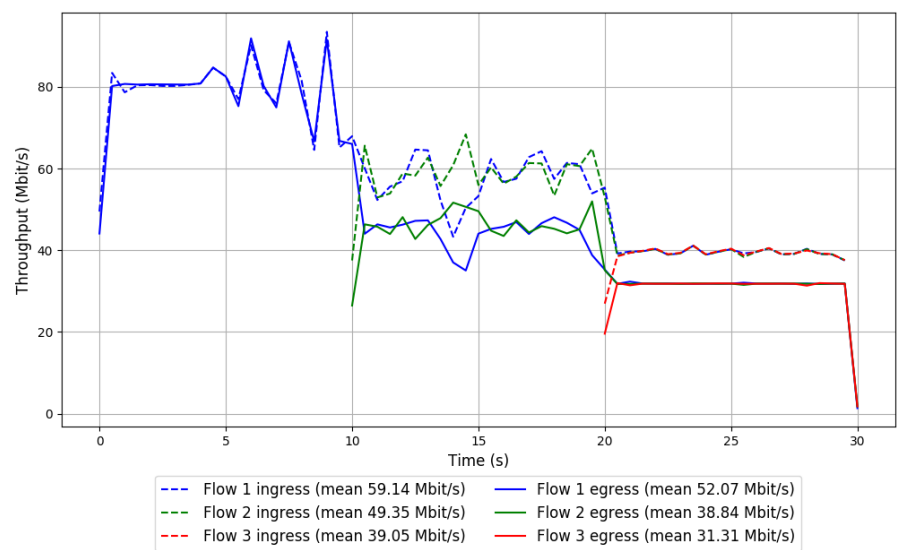


Run 5: Statistics of TaoVA-100x

Start at: 2018-04-24 22:43:16  
End at: 2018-04-24 22:43:46  
Local clock offset: 0.281 ms  
Remote clock offset: -0.384 ms

# Below is generated by plot.py at 2018-04-25 01:50:56  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 88.37 Mbit/s  
95th percentile per-packet one-way delay: 63.412 ms  
Loss rate: 15.71%  
-- Flow 1:  
Average throughput: 52.07 Mbit/s  
95th percentile per-packet one-way delay: 61.190 ms  
Loss rate: 11.86%  
-- Flow 2:  
Average throughput: 38.84 Mbit/s  
95th percentile per-packet one-way delay: 64.285 ms  
Loss rate: 21.16%  
-- Flow 3:  
Average throughput: 31.31 Mbit/s  
95th percentile per-packet one-way delay: 65.731 ms  
Loss rate: 19.51%

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

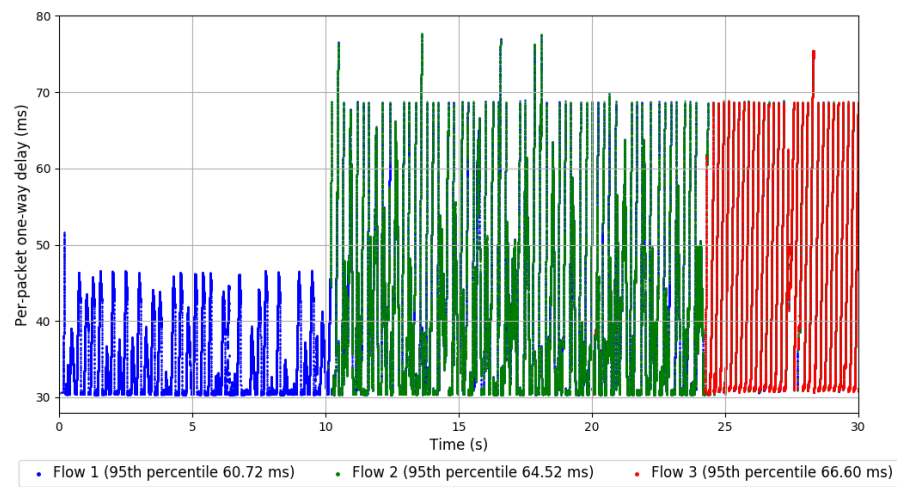
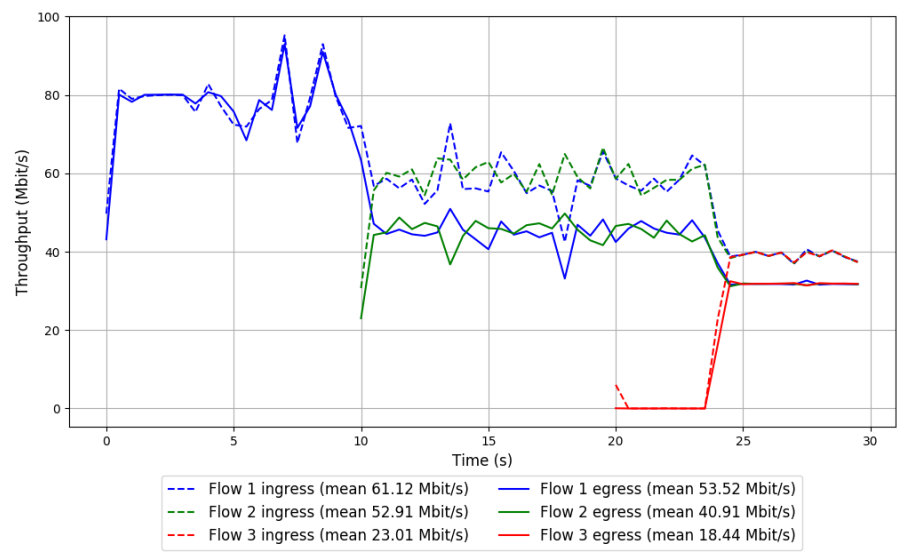


Run 6: Statistics of TaoVA-100x

Start at: 2018-04-24 23:07:54  
End at: 2018-04-24 23:08:24  
Local clock offset: 0.733 ms  
Remote clock offset: -0.095 ms

# Below is generated by plot.py at 2018-04-25 01:50:57  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 86.89 Mbit/s  
95th percentile per-packet one-way delay: 62.984 ms  
Loss rate: 16.45%  
-- Flow 1:  
Average throughput: 53.52 Mbit/s  
95th percentile per-packet one-way delay: 60.724 ms  
Loss rate: 12.43%  
-- Flow 2:  
Average throughput: 40.91 Mbit/s  
95th percentile per-packet one-way delay: 64.518 ms  
Loss rate: 22.67%  
-- Flow 3:  
Average throughput: 18.44 Mbit/s  
95th percentile per-packet one-way delay: 66.601 ms  
Loss rate: 19.88%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-04-24 23:33:26

End at: 2018-04-24 23:33:56

Local clock offset: 0.689 ms

Remote clock offset: 0.975 ms

# Below is generated by plot.py at 2018-04-25 01:51:05

# Datalink statistics

-- Total of 3 flows:

Average throughput: 87.21 Mbit/s

95th percentile per-packet one-way delay: 65.340 ms

Loss rate: 15.91%

-- Flow 1:

Average throughput: 51.35 Mbit/s

95th percentile per-packet one-way delay: 63.115 ms

Loss rate: 12.26%

-- Flow 2:

Average throughput: 38.36 Mbit/s

95th percentile per-packet one-way delay: 66.141 ms

Loss rate: 20.99%

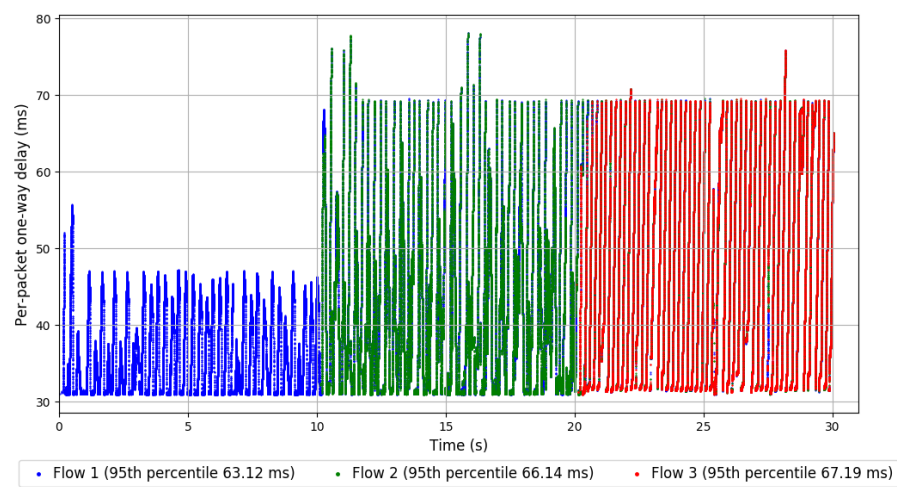
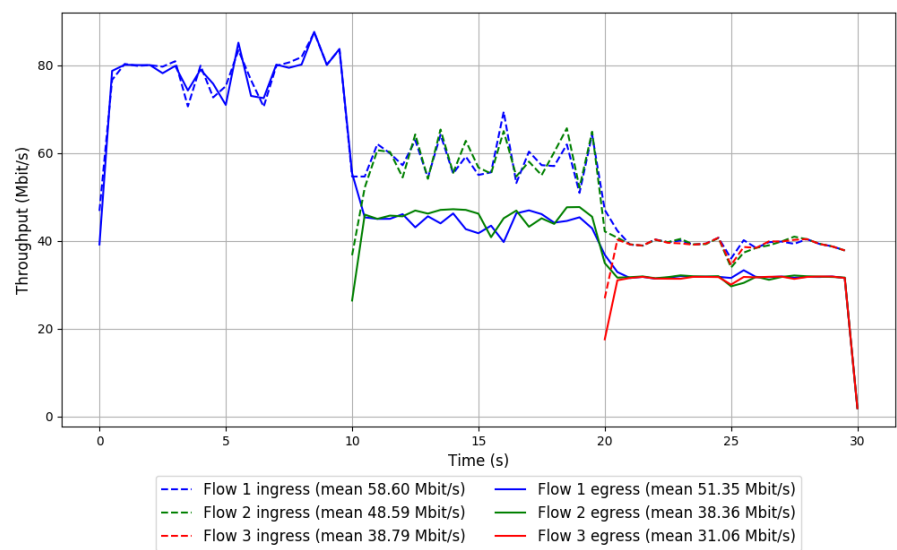
-- Flow 3:

Average throughput: 31.06 Mbit/s

95th percentile per-packet one-way delay: 67.193 ms

Loss rate: 19.77%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-04-24 23:58:24

End at: 2018-04-24 23:58:54

Local clock offset: 0.834 ms

Remote clock offset: 0.336 ms

# Below is generated by plot.py at 2018-04-25 01:51:05

# Datalink statistics

-- Total of 3 flows:

Average throughput: 87.03 Mbit/s

95th percentile per-packet one-way delay: 64.399 ms

Loss rate: 16.54%

-- Flow 1:

Average throughput: 51.18 Mbit/s

95th percentile per-packet one-way delay: 62.043 ms

Loss rate: 12.95%

-- Flow 2:

Average throughput: 38.20 Mbit/s

95th percentile per-packet one-way delay: 64.778 ms

Loss rate: 22.18%

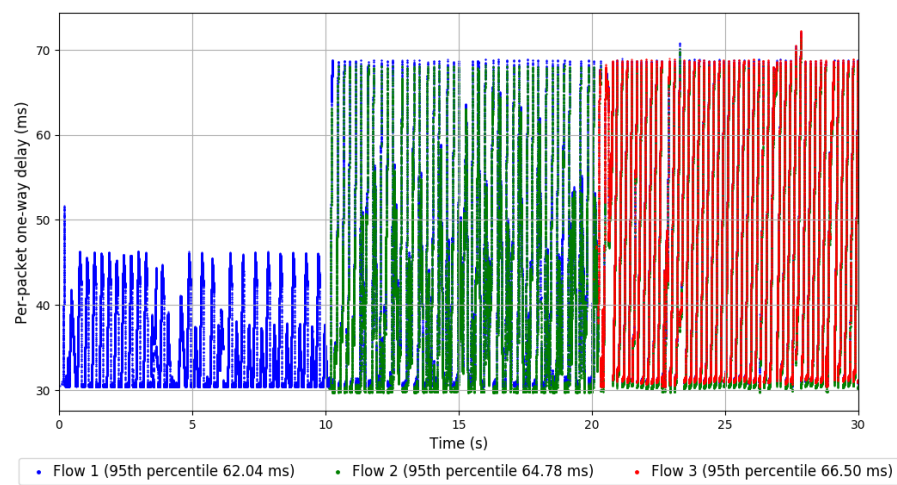
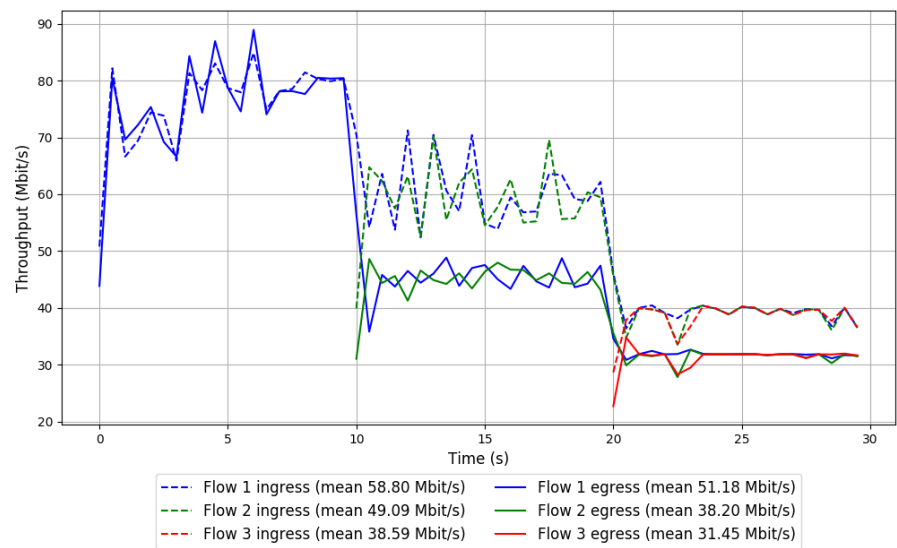
-- Flow 3:

Average throughput: 31.45 Mbit/s

95th percentile per-packet one-way delay: 66.500 ms

Loss rate: 18.60%

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



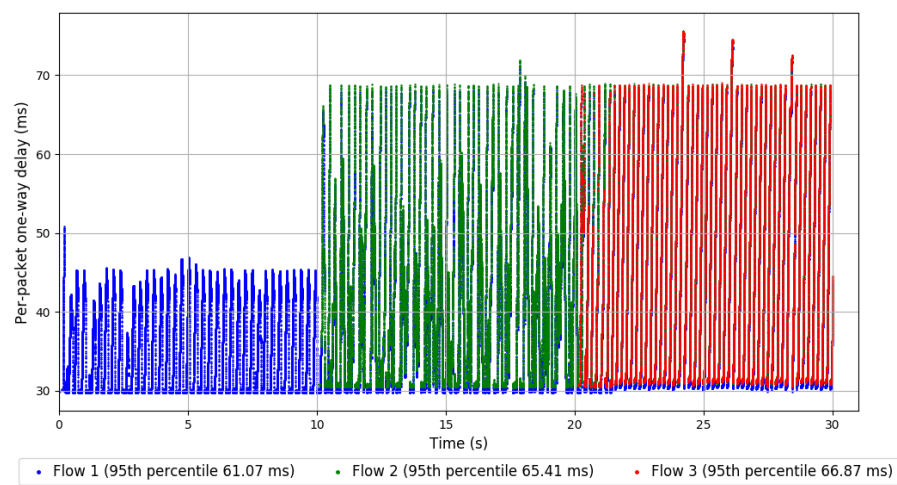
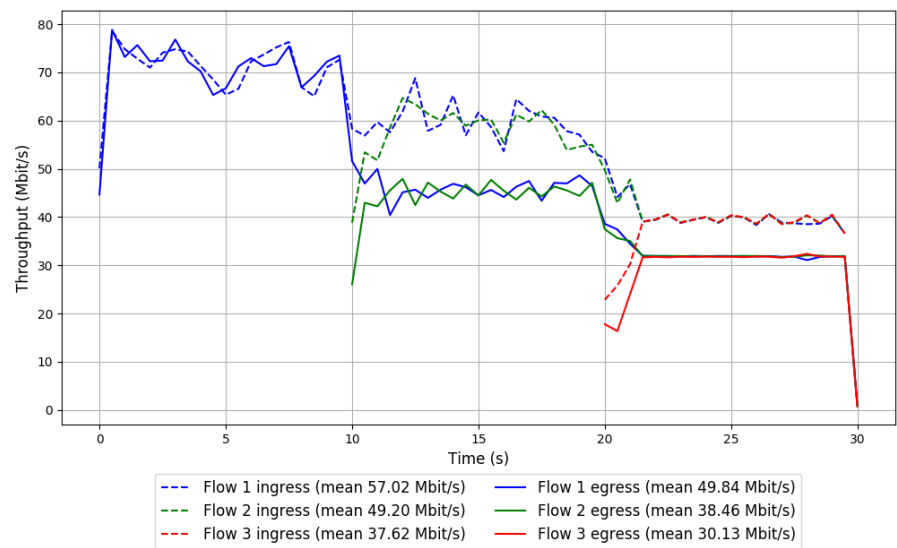


Run 9: Statistics of TaoVA-100x

Start at: 2018-04-25 00:24:07  
End at: 2018-04-25 00:24:37  
Local clock offset: 1.189 ms  
Remote clock offset: -0.284 ms

# Below is generated by plot.py at 2018-04-25 01:53:29  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 85.44 Mbit/s  
95th percentile per-packet one-way delay: 64.005 ms  
Loss rate: 16.42%  
-- Flow 1:  
Average throughput: 49.84 Mbit/s  
95th percentile per-packet one-way delay: 61.067 ms  
Loss rate: 12.56%  
-- Flow 2:  
Average throughput: 38.46 Mbit/s  
95th percentile per-packet one-way delay: 65.405 ms  
Loss rate: 21.78%  
-- Flow 3:  
Average throughput: 30.13 Mbit/s  
95th percentile per-packet one-way delay: 66.867 ms  
Loss rate: 19.93%

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

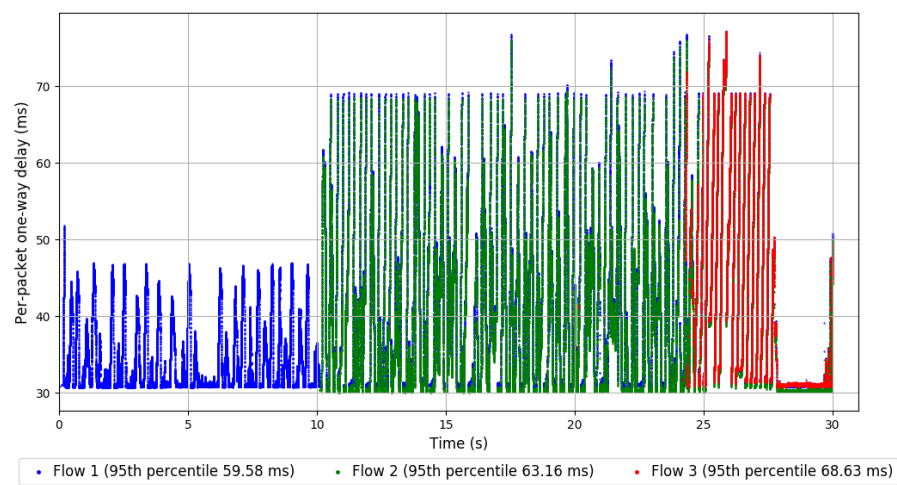
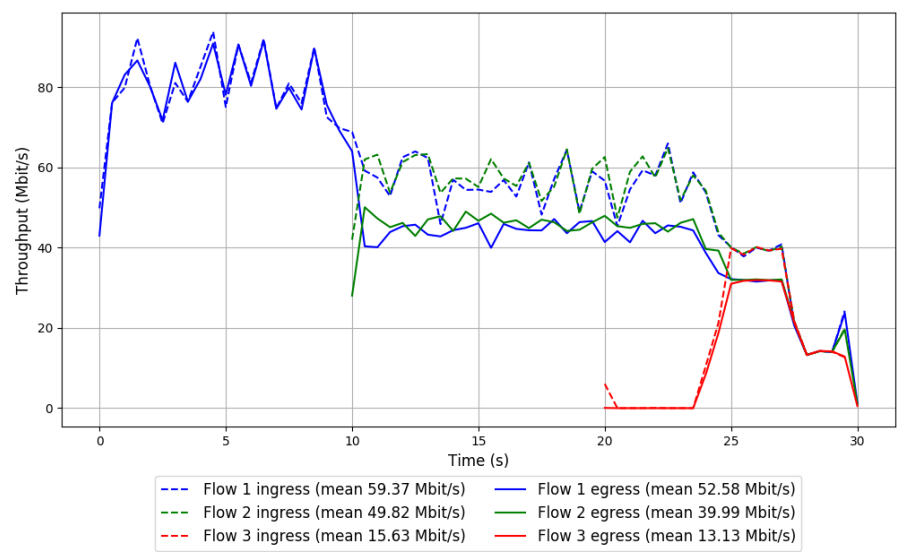


Run 10: Statistics of TaoVA-100x

Start at: 2018-04-25 00:50:43  
End at: 2018-04-25 00:51:13  
Local clock offset: 1.0 ms  
Remote clock offset: -2.109 ms

# Below is generated by plot.py at 2018-04-25 01:53:29  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 83.57 Mbit/s  
95th percentile per-packet one-way delay: 61.667 ms  
Loss rate: 14.44%  
-- Flow 1:  
Average throughput: 52.58 Mbit/s  
95th percentile per-packet one-way delay: 59.577 ms  
Loss rate: 11.40%  
-- Flow 2:  
Average throughput: 39.99 Mbit/s  
95th percentile per-packet one-way delay: 63.155 ms  
Loss rate: 19.65%  
-- Flow 3:  
Average throughput: 13.13 Mbit/s  
95th percentile per-packet one-way delay: 68.631 ms  
Loss rate: 15.91%

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

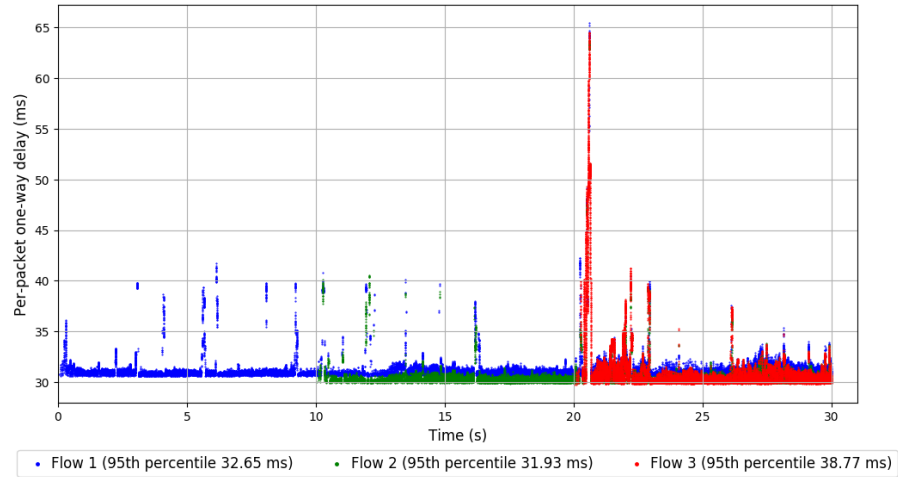
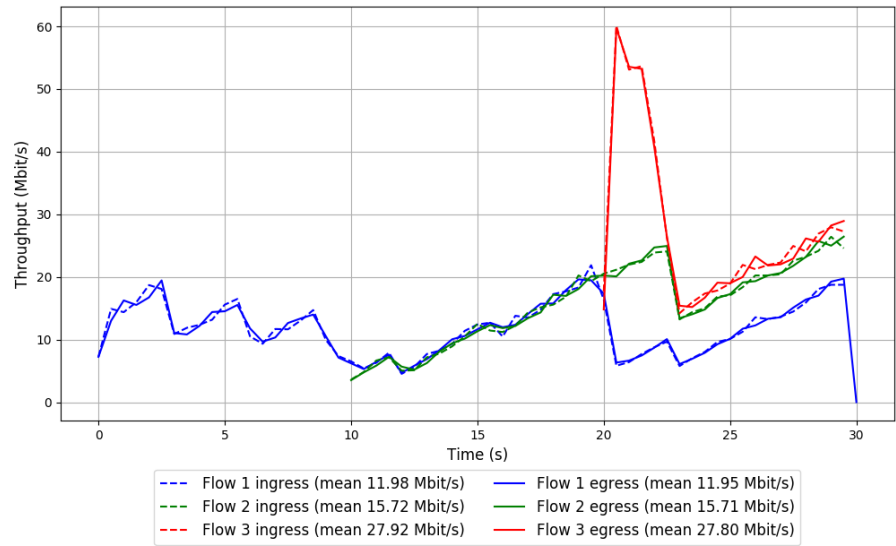


Run 1: Statistics of TCP Vegas

Start at: 2018-04-24 21:15:10  
End at: 2018-04-24 21:15:40  
Local clock offset: 1.18 ms  
Remote clock offset: -0.106 ms

# Below is generated by plot.py at 2018-04-25 01:53:29  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 31.64 Mbit/s  
95th percentile per-packet one-way delay: 33.759 ms  
Loss rate: 0.25%  
-- Flow 1:  
Average throughput: 11.95 Mbit/s  
95th percentile per-packet one-way delay: 32.650 ms  
Loss rate: 0.29%  
-- Flow 2:  
Average throughput: 15.71 Mbit/s  
95th percentile per-packet one-way delay: 31.930 ms  
Loss rate: 0.03%  
-- Flow 3:  
Average throughput: 27.80 Mbit/s  
95th percentile per-packet one-way delay: 38.766 ms  
Loss rate: 0.44%

# Run 1: Report of TCP Vegas — Data Link

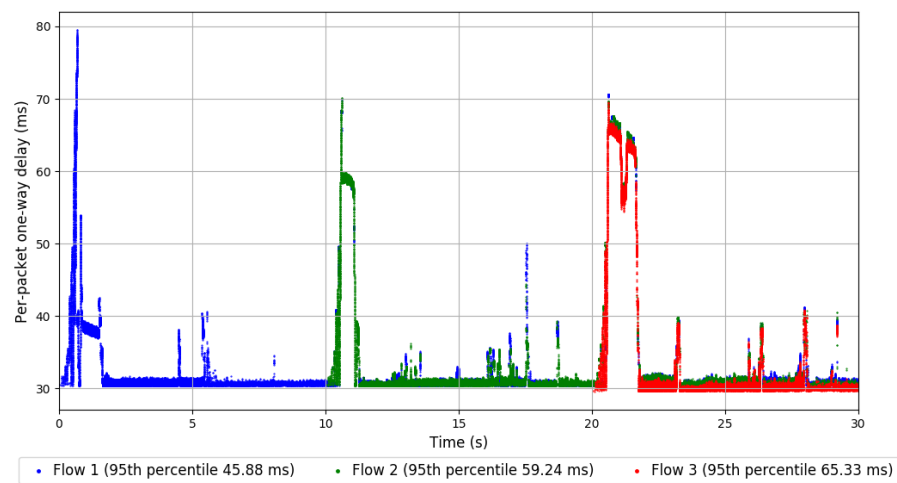
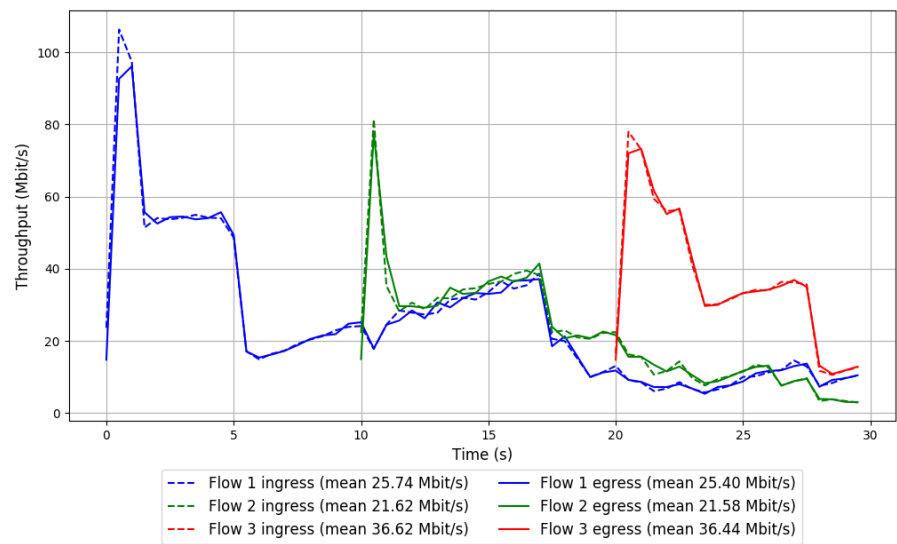


Run 2: Statistics of TCP Vegas

Start at: 2018-04-24 21:40:21  
End at: 2018-04-24 21:40:51  
Local clock offset: 0.948 ms  
Remote clock offset: -0.604 ms

# Below is generated by plot.py at 2018-04-25 01:53:29  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 51.83 Mbit/s  
95th percentile per-packet one-way delay: 62.972 ms  
Loss rate: 0.83%  
-- Flow 1:  
Average throughput: 25.40 Mbit/s  
95th percentile per-packet one-way delay: 45.878 ms  
Loss rate: 1.35%  
-- Flow 2:  
Average throughput: 21.58 Mbit/s  
95th percentile per-packet one-way delay: 59.237 ms  
Loss rate: 0.19%  
-- Flow 3:  
Average throughput: 36.44 Mbit/s  
95th percentile per-packet one-way delay: 65.330 ms  
Loss rate: 0.49%

Run 2: Report of TCP Vegas — Data Link



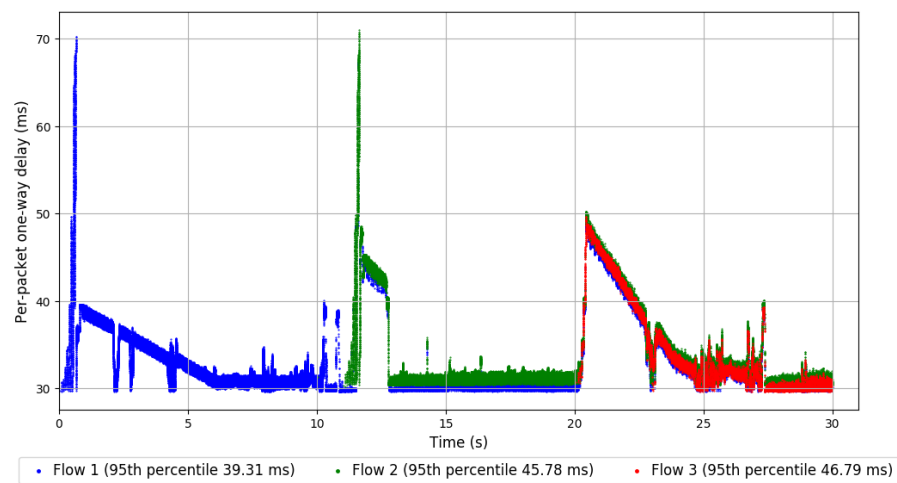
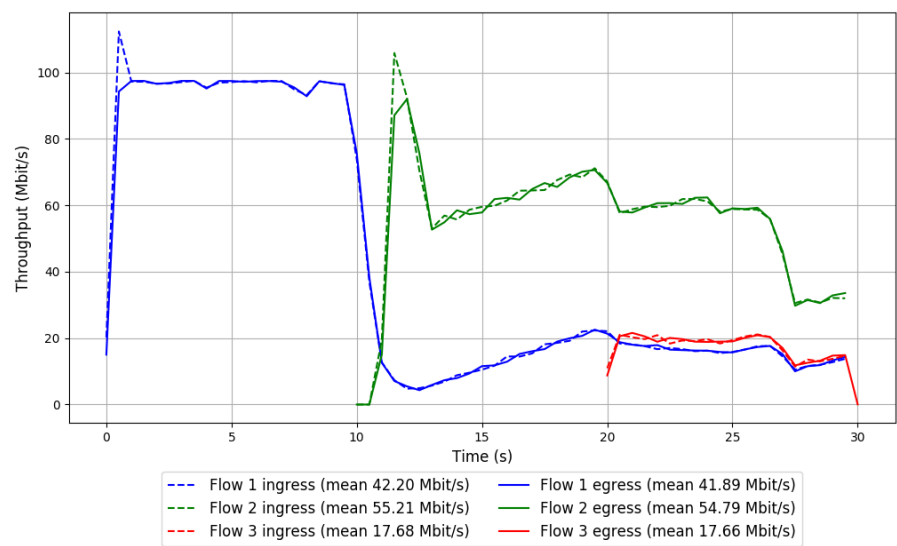


Run 3: Statistics of TCP Vegas

Start at: 2018-04-24 22:05:59  
End at: 2018-04-24 22:06:29  
Local clock offset: 0.416 ms  
Remote clock offset: -0.186 ms

# Below is generated by plot.py at 2018-04-25 01:53:29  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 84.22 Mbit/s  
95th percentile per-packet one-way delay: 44.615 ms  
Loss rate: 0.70%  
-- Flow 1:  
Average throughput: 41.89 Mbit/s  
95th percentile per-packet one-way delay: 39.311 ms  
Loss rate: 0.73%  
-- Flow 2:  
Average throughput: 54.79 Mbit/s  
95th percentile per-packet one-way delay: 45.776 ms  
Loss rate: 0.77%  
-- Flow 3:  
Average throughput: 17.66 Mbit/s  
95th percentile per-packet one-way delay: 46.788 ms  
Loss rate: 0.09%

Run 3: Report of TCP Vegas — Data Link

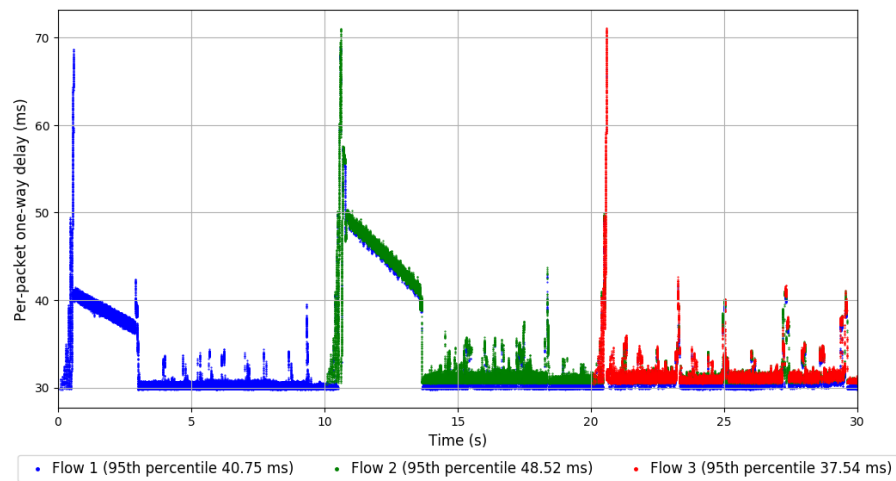
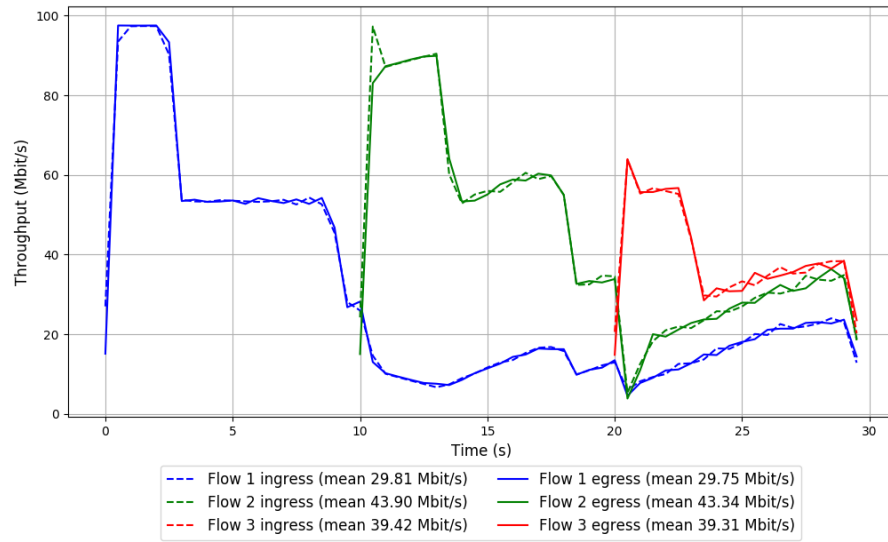


Run 4: Statistics of TCP Vegas

Start at: 2018-04-24 22:30:22  
End at: 2018-04-24 22:30:52  
Local clock offset: 0.207 ms  
Remote clock offset: -0.125 ms

# Below is generated by plot.py at 2018-04-25 01:53:29  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 71.64 Mbit/s  
95th percentile per-packet one-way delay: 47.289 ms  
Loss rate: 0.66%  
-- Flow 1:  
Average throughput: 29.75 Mbit/s  
95th percentile per-packet one-way delay: 40.752 ms  
Loss rate: 0.19%  
-- Flow 2:  
Average throughput: 43.34 Mbit/s  
95th percentile per-packet one-way delay: 48.524 ms  
Loss rate: 1.29%  
-- Flow 3:  
Average throughput: 39.31 Mbit/s  
95th percentile per-packet one-way delay: 37.538 ms  
Loss rate: 0.31%

# Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-04-24 22:55:04

End at: 2018-04-24 22:55:34

Local clock offset: 0.579 ms

Remote clock offset: 0.021 ms

# Below is generated by plot.py at 2018-04-25 01:53:29

# Datalink statistics

-- Total of 3 flows:

Average throughput: 59.20 Mbit/s

95th percentile per-packet one-way delay: 61.506 ms

Loss rate: 0.32%

-- Flow 1:

Average throughput: 17.89 Mbit/s

95th percentile per-packet one-way delay: 60.027 ms

Loss rate: 0.28%

-- Flow 2:

Average throughput: 39.58 Mbit/s

95th percentile per-packet one-way delay: 62.537 ms

Loss rate: 0.34%

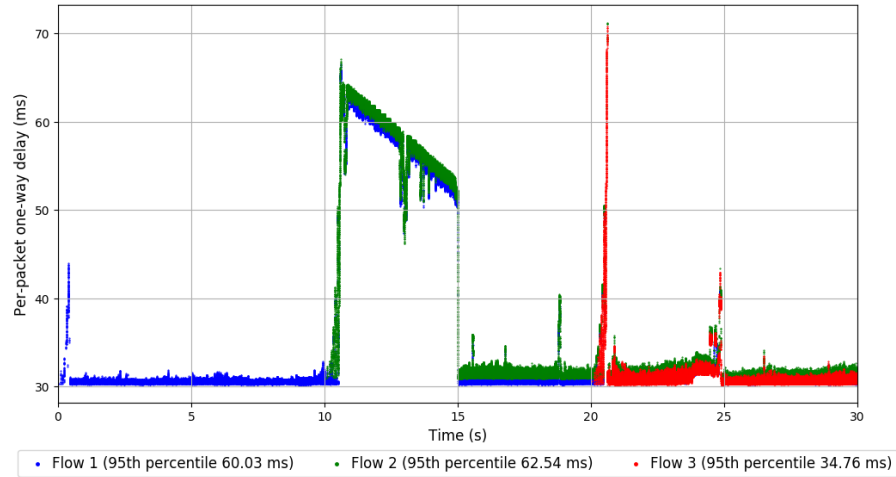
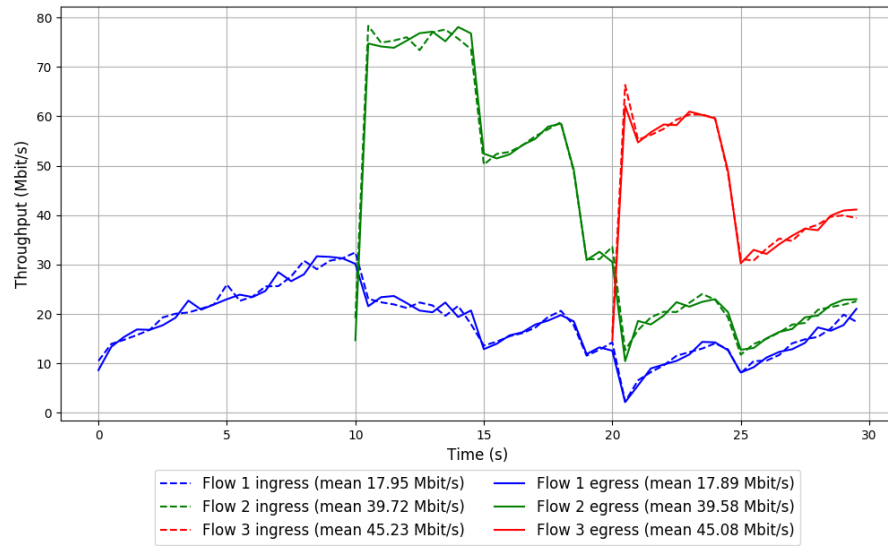
-- Flow 3:

Average throughput: 45.08 Mbit/s

95th percentile per-packet one-way delay: 34.755 ms

Loss rate: 0.33%

# Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-04-24 23:20:23

End at: 2018-04-24 23:20:53

Local clock offset: 0.666 ms

Remote clock offset: 0.799 ms

# Below is generated by plot.py at 2018-04-25 01:53:29

# Datalink statistics

-- Total of 3 flows:

Average throughput: 82.21 Mbit/s

95th percentile per-packet one-way delay: 39.247 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 64.89 Mbit/s

95th percentile per-packet one-way delay: 39.454 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 16.93 Mbit/s

95th percentile per-packet one-way delay: 37.715 ms

Loss rate: 0.10%

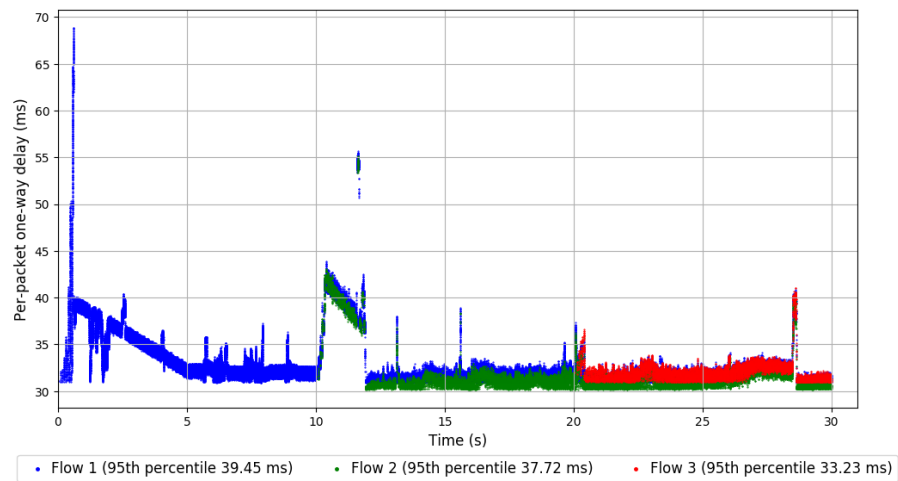
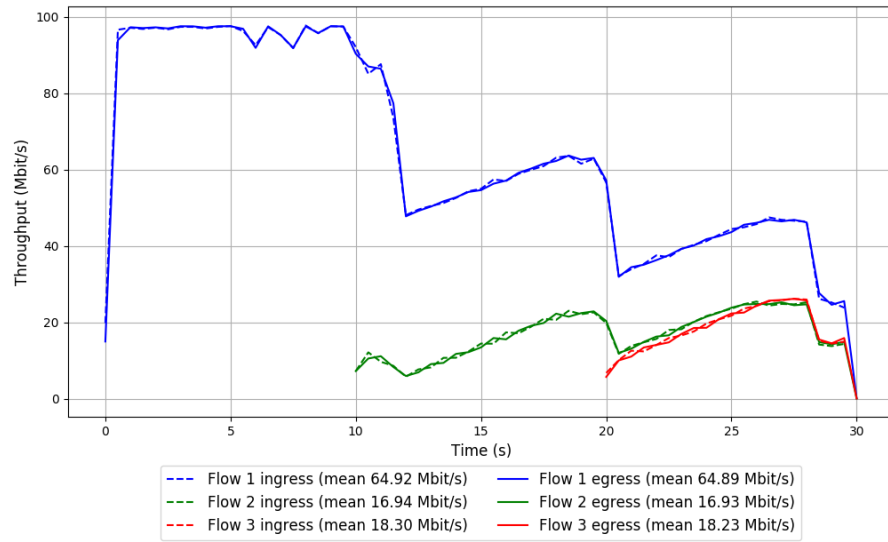
-- Flow 3:

Average throughput: 18.23 Mbit/s

95th percentile per-packet one-way delay: 33.225 ms

Loss rate: 0.40%

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





Run 7: Statistics of TCP Vegas

Start at: 2018-04-24 23:45:31

End at: 2018-04-24 23:46:01

Local clock offset: 0.679 ms

Remote clock offset: 0.308 ms

# Below is generated by plot.py at 2018-04-25 01:53:29

# Datalink statistics

-- Total of 3 flows:

Average throughput: 67.72 Mbit/s

95th percentile per-packet one-way delay: 38.811 ms

Loss rate: 0.77%

-- Flow 1:

Average throughput: 37.23 Mbit/s

95th percentile per-packet one-way delay: 38.956 ms

Loss rate: 0.54%

-- Flow 2:

Average throughput: 28.45 Mbit/s

95th percentile per-packet one-way delay: 34.642 ms

Loss rate: 0.60%

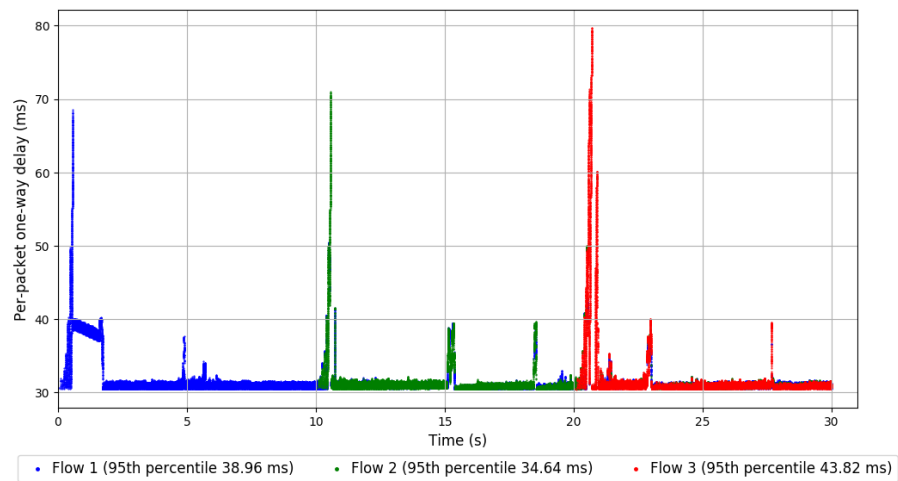
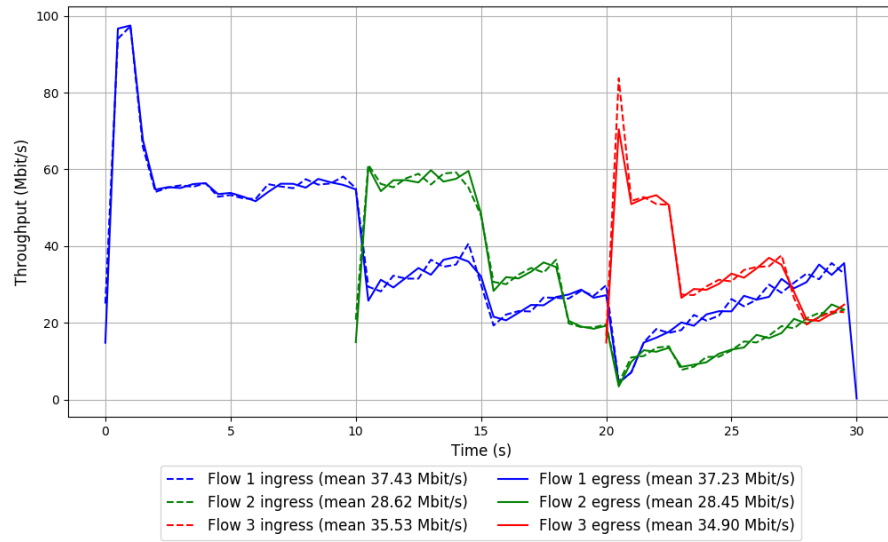
-- Flow 3:

Average throughput: 34.90 Mbit/s

95th percentile per-packet one-way delay: 43.818 ms

Loss rate: 1.77%

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



Run 8: Statistics of TCP Vegas

Start at: 2018-04-25 00:10:58

End at: 2018-04-25 00:11:28

Local clock offset: 0.972 ms

Remote clock offset: 0.708 ms

# Below is generated by plot.py at 2018-04-25 01:53:29

# Datalink statistics

-- Total of 3 flows:

Average throughput: 43.05 Mbit/s

95th percentile per-packet one-way delay: 34.246 ms

Loss rate: 0.30%

-- Flow 1:

Average throughput: 15.42 Mbit/s

95th percentile per-packet one-way delay: 32.957 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 23.71 Mbit/s

95th percentile per-packet one-way delay: 34.454 ms

Loss rate: 0.42%

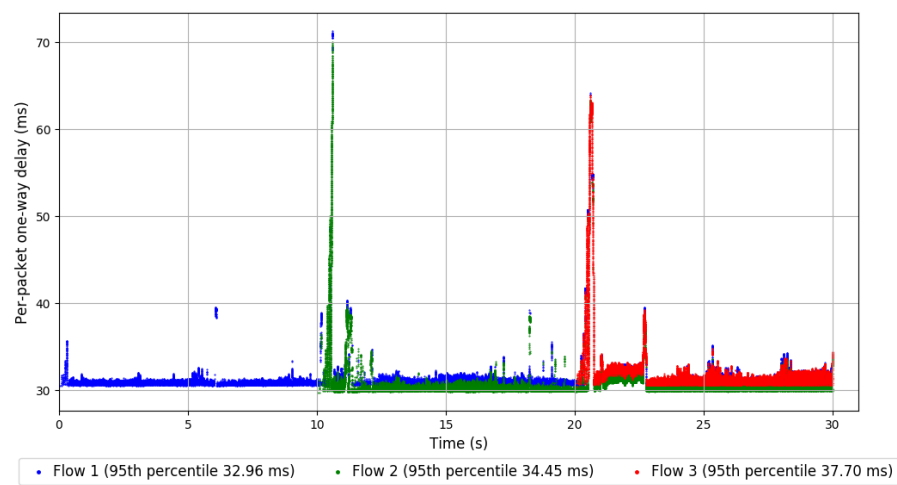
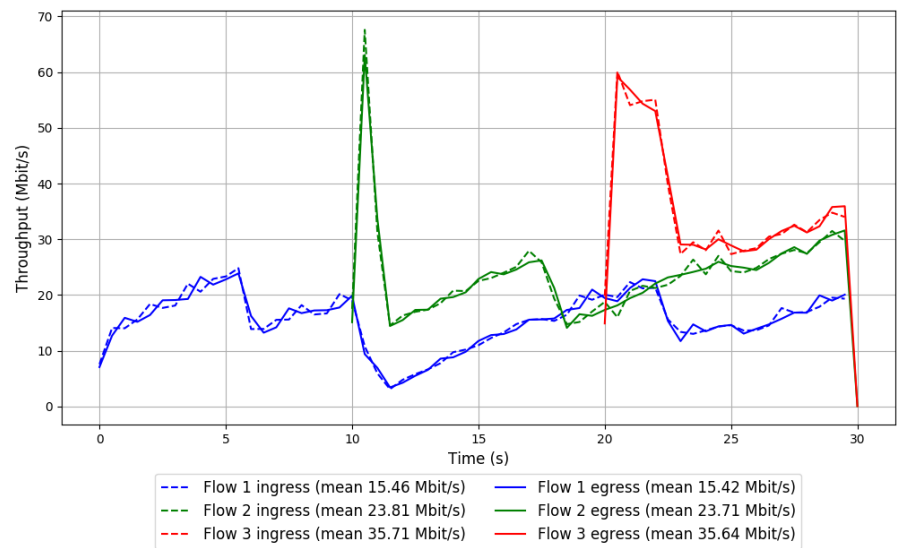
-- Flow 3:

Average throughput: 35.64 Mbit/s

95th percentile per-packet one-way delay: 37.703 ms

Loss rate: 0.19%

Run 8: Report of TCP Vegas — Data Link

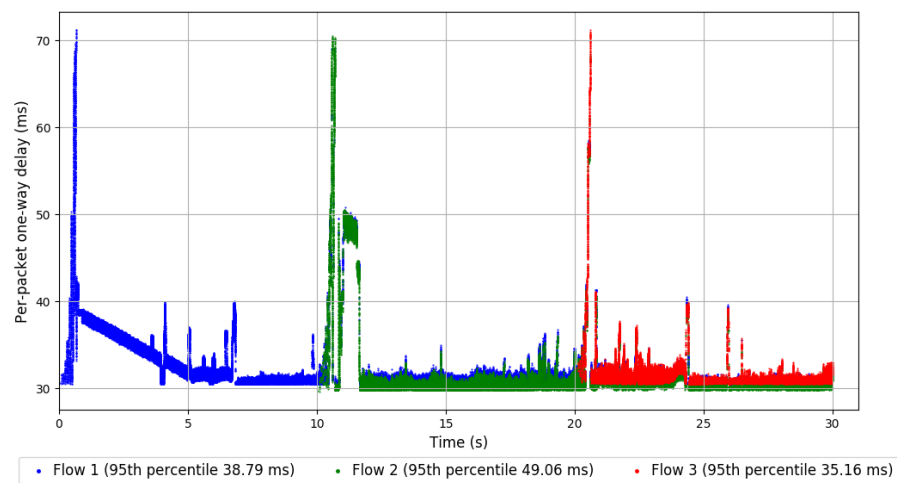
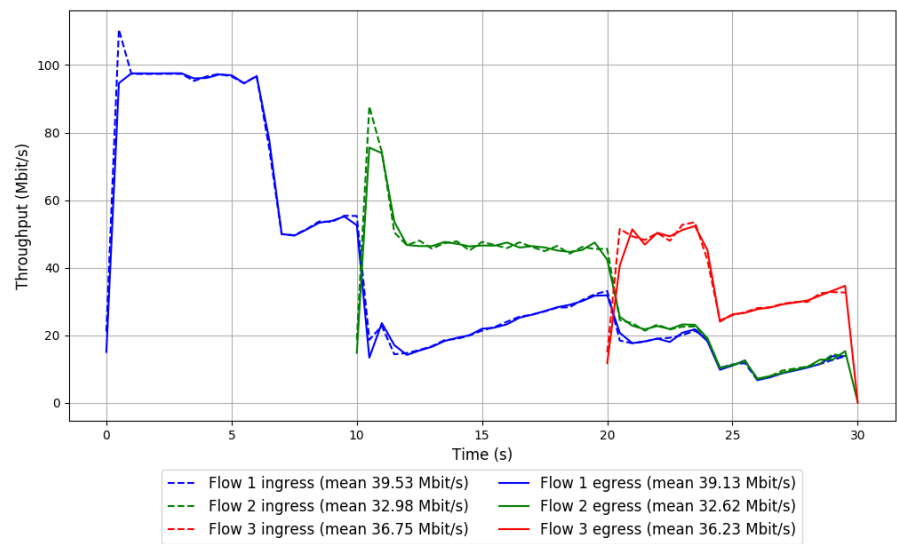


Run 9: Statistics of TCP Vegas

Start at: 2018-04-25 00:37:07  
End at: 2018-04-25 00:37:37  
Local clock offset: 0.934 ms  
Remote clock offset: -0.596 ms

# Below is generated by plot.py at 2018-04-25 01:53:29  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 72.86 Mbit/s  
95th percentile per-packet one-way delay: 41.287 ms  
Loss rate: 1.09%  
-- Flow 1:  
Average throughput: 39.13 Mbit/s  
95th percentile per-packet one-way delay: 38.790 ms  
Loss rate: 1.00%  
-- Flow 2:  
Average throughput: 32.62 Mbit/s  
95th percentile per-packet one-way delay: 49.059 ms  
Loss rate: 1.07%  
-- Flow 3:  
Average throughput: 36.23 Mbit/s  
95th percentile per-packet one-way delay: 35.164 ms  
Loss rate: 1.41%

Run 9: Report of TCP Vegas — Data Link

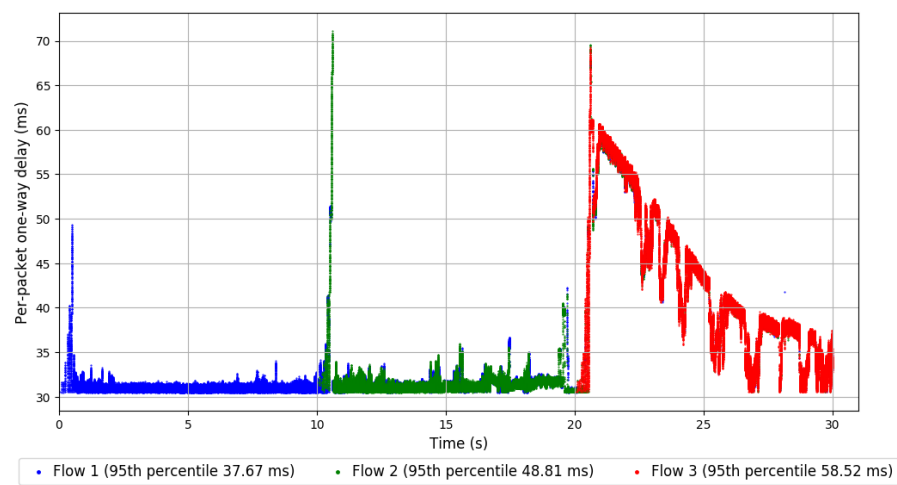
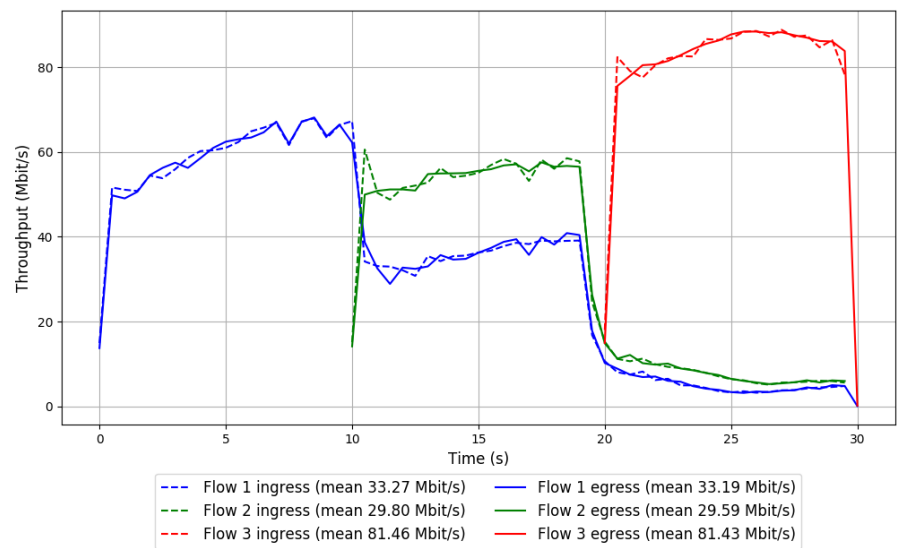


Run 10: Statistics of TCP Vegas

Start at: 2018-04-25 01:04:05  
End at: 2018-04-25 01:04:35  
Local clock offset: 1.097 ms  
Remote clock offset: -4.097 ms

# Below is generated by plot.py at 2018-04-25 01:53:29  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 79.94 Mbit/s  
95th percentile per-packet one-way delay: 55.775 ms  
Loss rate: 0.27%  
-- Flow 1:  
Average throughput: 33.19 Mbit/s  
95th percentile per-packet one-way delay: 37.666 ms  
Loss rate: 0.24%  
-- Flow 2:  
Average throughput: 29.59 Mbit/s  
95th percentile per-packet one-way delay: 48.806 ms  
Loss rate: 0.69%  
-- Flow 3:  
Average throughput: 81.43 Mbit/s  
95th percentile per-packet one-way delay: 58.517 ms  
Loss rate: 0.00%

Run 10: Report of TCP Vegas — Data Link





Run 1: Statistics of Verus

Start at: 2018-04-24 21:19:39

End at: 2018-04-24 21:20:09

Local clock offset: 1.308 ms

Remote clock offset: 0.16 ms

# Below is generated by plot.py at 2018-04-25 01:53:29

# Datalink statistics

-- Total of 3 flows:

Average throughput: 58.77 Mbit/s

95th percentile per-packet one-way delay: 67.618 ms

Loss rate: 31.06%

-- Flow 1:

Average throughput: 28.15 Mbit/s

95th percentile per-packet one-way delay: 66.929 ms

Loss rate: 26.11%

-- Flow 2:

Average throughput: 37.66 Mbit/s

95th percentile per-packet one-way delay: 68.612 ms

Loss rate: 33.28%

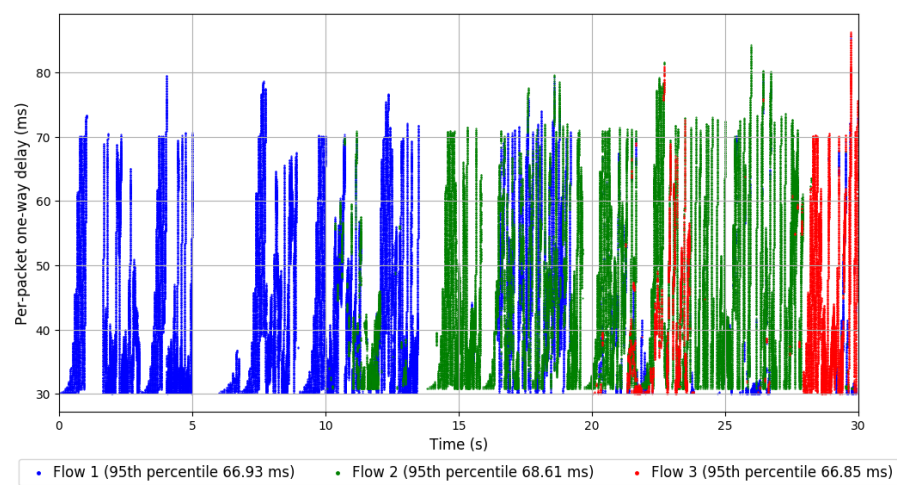
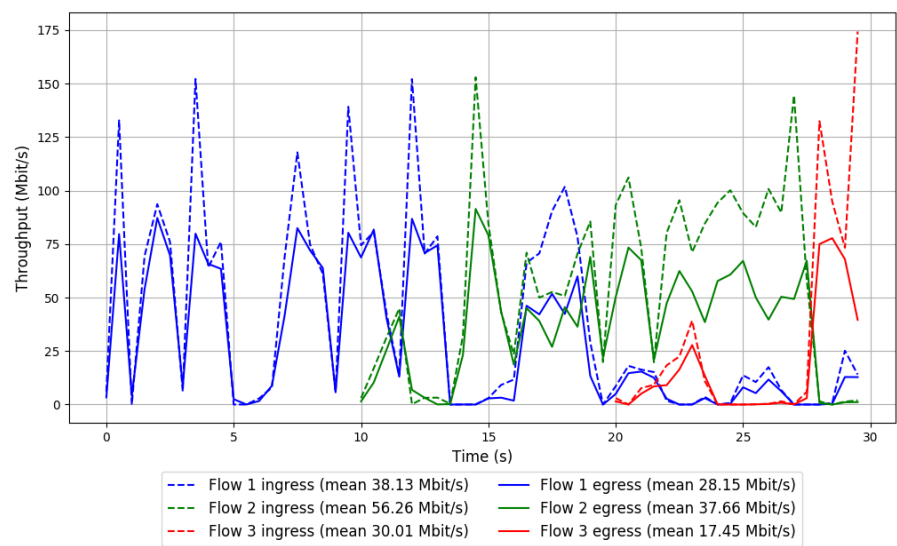
-- Flow 3:

Average throughput: 17.45 Mbit/s

95th percentile per-packet one-way delay: 66.848 ms

Loss rate: 41.70%

Run 1: Report of Verus — Data Link

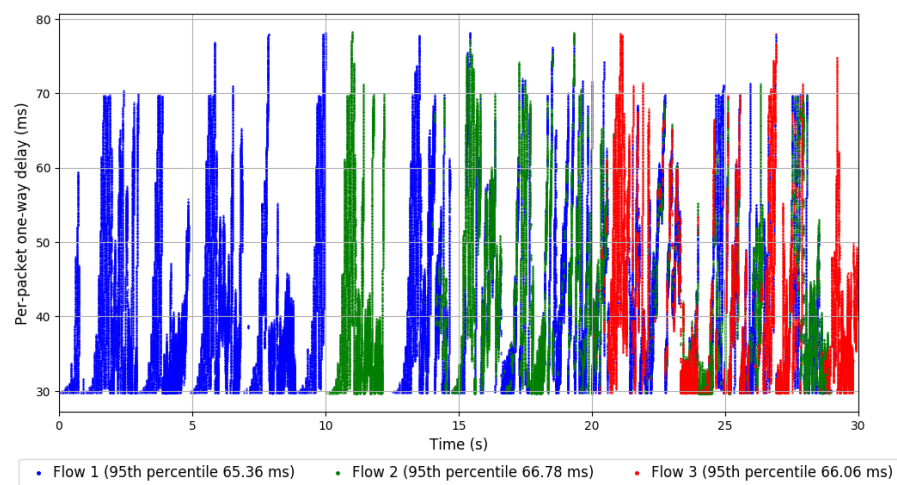
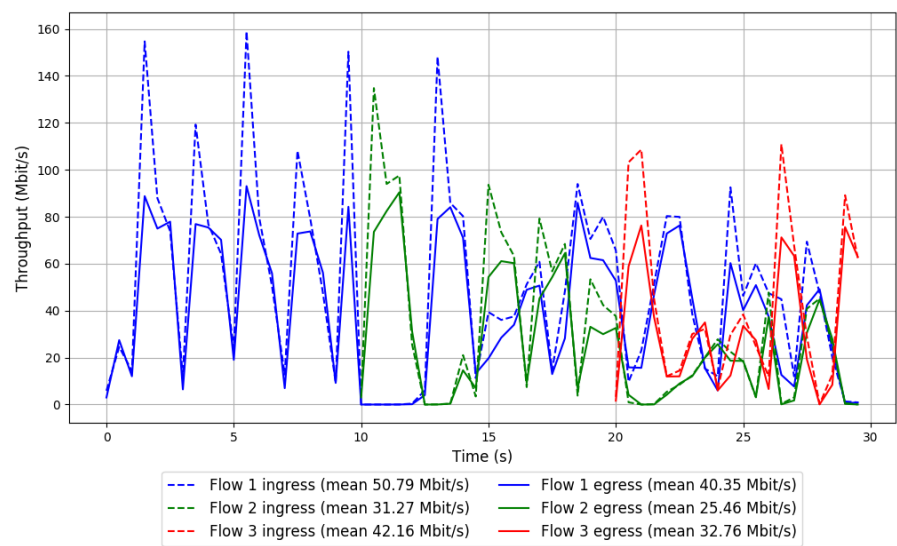


Run 2: Statistics of Verus

Start at: 2018-04-24 21:44:53  
End at: 2018-04-24 21:45:23  
Local clock offset: 0.771 ms  
Remote clock offset: -0.659 ms

# Below is generated by plot.py at 2018-04-25 01:53:35  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 68.07 Mbit/s  
95th percentile per-packet one-way delay: 65.912 ms  
Loss rate: 20.31%  
-- Flow 1:  
Average throughput: 40.35 Mbit/s  
95th percentile per-packet one-way delay: 65.361 ms  
Loss rate: 20.51%  
-- Flow 2:  
Average throughput: 25.46 Mbit/s  
95th percentile per-packet one-way delay: 66.781 ms  
Loss rate: 18.52%  
-- Flow 3:  
Average throughput: 32.76 Mbit/s  
95th percentile per-packet one-way delay: 66.062 ms  
Loss rate: 22.22%

Run 2: Report of Verus — Data Link

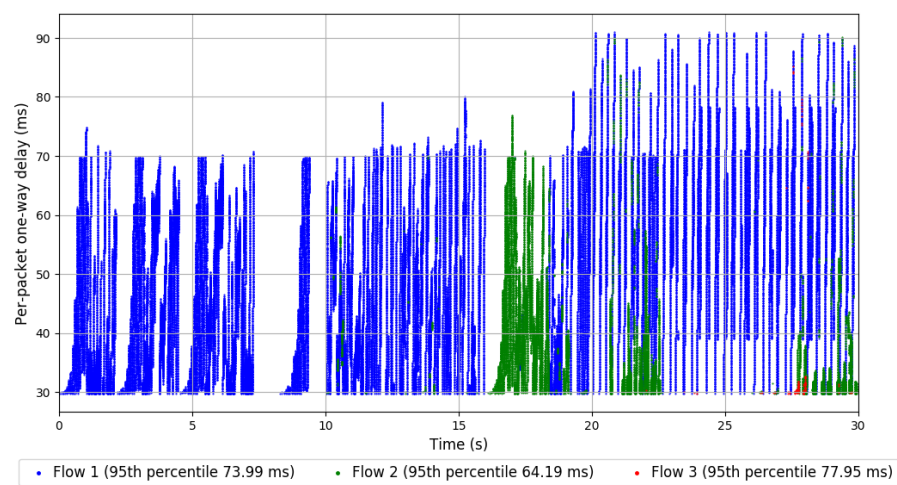
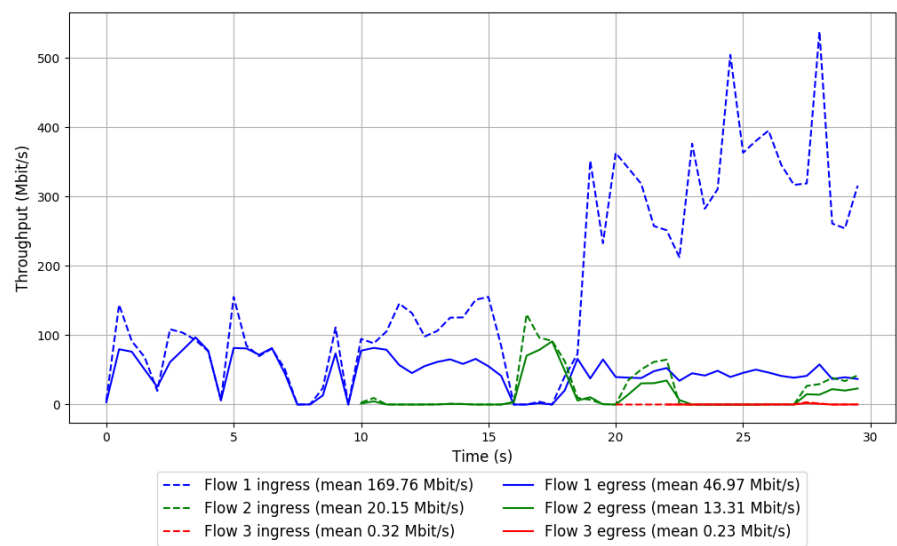


Run 3: Statistics of Verus

Start at: 2018-04-24 22:10:27  
End at: 2018-04-24 22:10:57  
Local clock offset: 0.327 ms  
Remote clock offset: -0.112 ms

# Below is generated by plot.py at 2018-04-25 01:53:54  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 55.75 Mbit/s  
95th percentile per-packet one-way delay: 72.577 ms  
Loss rate: 69.48%  
-- Flow 1:  
Average throughput: 46.97 Mbit/s  
95th percentile per-packet one-way delay: 73.986 ms  
Loss rate: 72.31%  
-- Flow 2:  
Average throughput: 13.31 Mbit/s  
95th percentile per-packet one-way delay: 64.194 ms  
Loss rate: 33.94%  
-- Flow 3:  
Average throughput: 0.23 Mbit/s  
95th percentile per-packet one-way delay: 77.953 ms  
Loss rate: 43.56%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-04-24 22:34:46

End at: 2018-04-24 22:35:16

Local clock offset: 0.199 ms

Remote clock offset: 0.263 ms

# Below is generated by plot.py at 2018-04-25 01:53:54

# Datalink statistics

-- Total of 3 flows:

Average throughput: 63.20 Mbit/s

95th percentile per-packet one-way delay: 67.278 ms

Loss rate: 28.96%

-- Flow 1:

Average throughput: 33.15 Mbit/s

95th percentile per-packet one-way delay: 67.289 ms

Loss rate: 30.83%

-- Flow 2:

Average throughput: 33.45 Mbit/s

95th percentile per-packet one-way delay: 67.764 ms

Loss rate: 26.09%

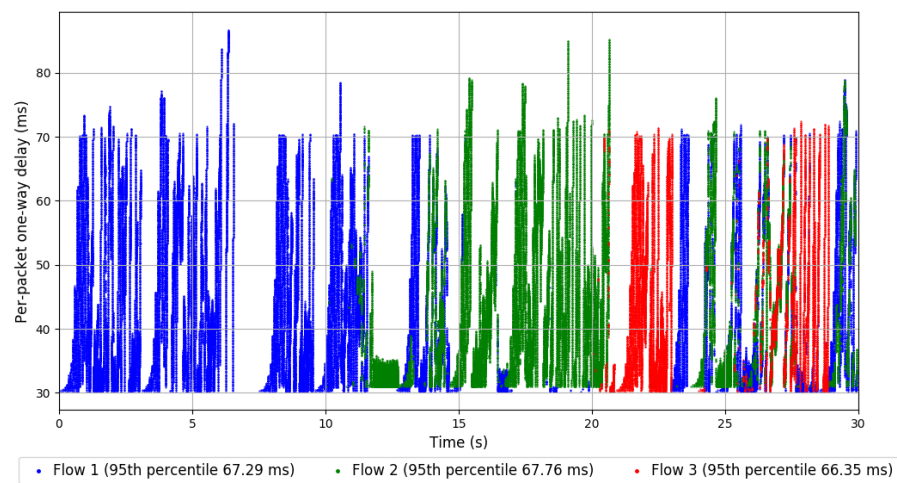
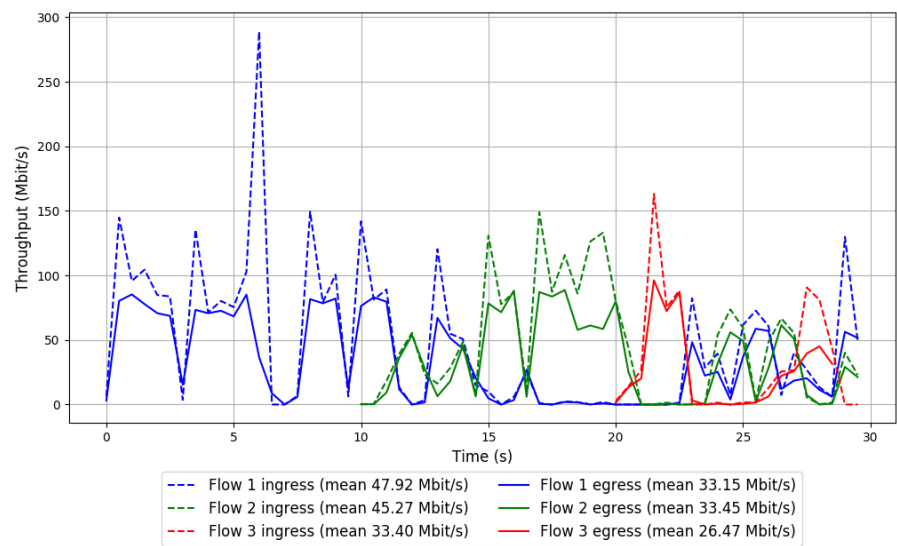
-- Flow 3:

Average throughput: 26.47 Mbit/s

95th percentile per-packet one-way delay: 66.346 ms

Loss rate: 28.72%

Run 4: Report of Verus — Data Link



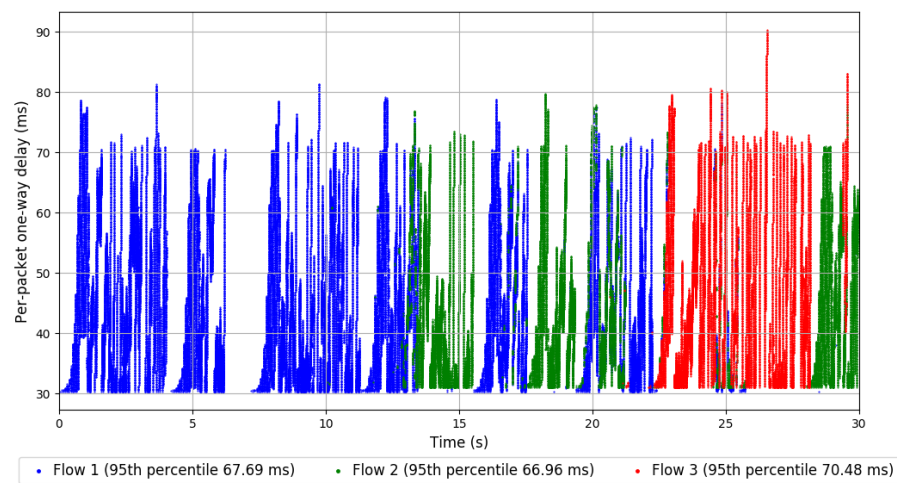
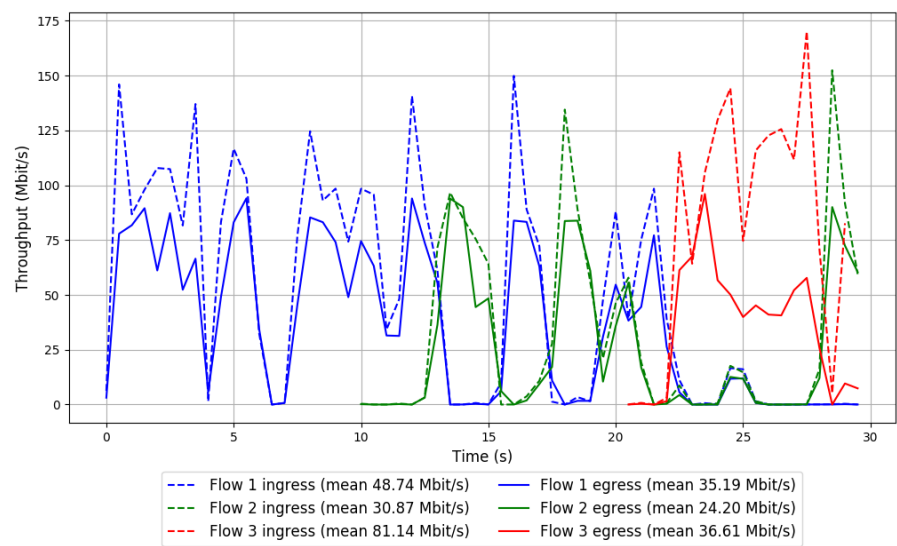


Run 5: Statistics of Verus

Start at: 2018-04-24 22:59:20  
End at: 2018-04-24 22:59:50  
Local clock offset: 0.602 ms  
Remote clock offset: -0.038 ms

# Below is generated by plot.py at 2018-04-25 01:54:17  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 62.10 Mbit/s  
95th percentile per-packet one-way delay: 68.143 ms  
Loss rate: 33.35%  
-- Flow 1:  
Average throughput: 35.19 Mbit/s  
95th percentile per-packet one-way delay: 67.695 ms  
Loss rate: 27.75%  
-- Flow 2:  
Average throughput: 24.20 Mbit/s  
95th percentile per-packet one-way delay: 66.957 ms  
Loss rate: 21.51%  
-- Flow 3:  
Average throughput: 36.61 Mbit/s  
95th percentile per-packet one-way delay: 70.482 ms  
Loss rate: 54.71%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-04-24 23:24:55

End at: 2018-04-24 23:25:25

Local clock offset: 0.785 ms

Remote clock offset: 0.403 ms

# Below is generated by plot.py at 2018-04-25 01:54:56

# Datalink statistics

-- Total of 3 flows:

Average throughput: 59.22 Mbit/s

95th percentile per-packet one-way delay: 74.400 ms

Loss rate: 71.14%

-- Flow 1:

Average throughput: 44.27 Mbit/s

95th percentile per-packet one-way delay: 76.008 ms

Loss rate: 75.09%

-- Flow 2:

Average throughput: 8.94 Mbit/s

95th percentile per-packet one-way delay: 66.081 ms

Loss rate: 23.70%

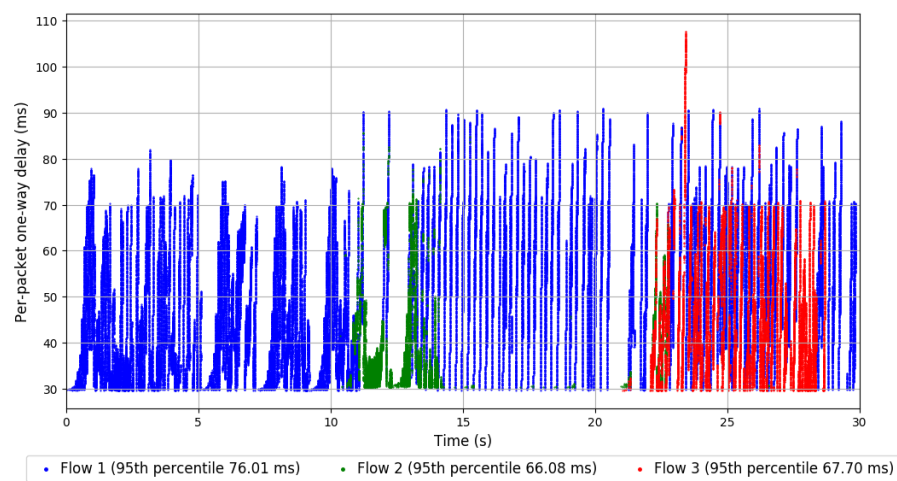
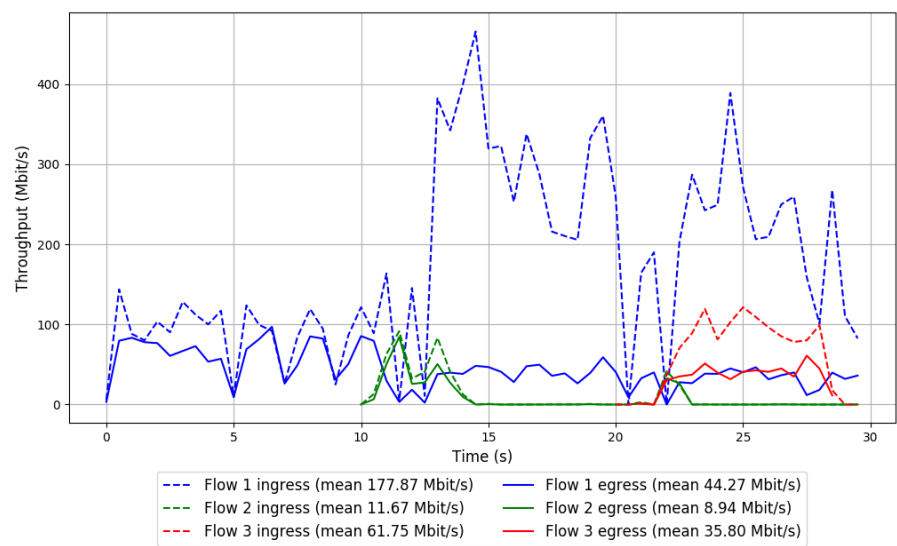
-- Flow 3:

Average throughput: 35.80 Mbit/s

95th percentile per-packet one-way delay: 67.702 ms

Loss rate: 53.92%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-04-24 23:49:52

End at: 2018-04-24 23:50:22

Local clock offset: 0.818 ms

Remote clock offset: 0.689 ms

# Below is generated by plot.py at 2018-04-25 01:54:56

# Datalink statistics

-- Total of 3 flows:

Average throughput: 67.19 Mbit/s

95th percentile per-packet one-way delay: 66.712 ms

Loss rate: 27.87%

-- Flow 1:

Average throughput: 47.17 Mbit/s

95th percentile per-packet one-way delay: 66.708 ms

Loss rate: 26.86%

-- Flow 2:

Average throughput: 28.59 Mbit/s

95th percentile per-packet one-way delay: 66.897 ms

Loss rate: 30.49%

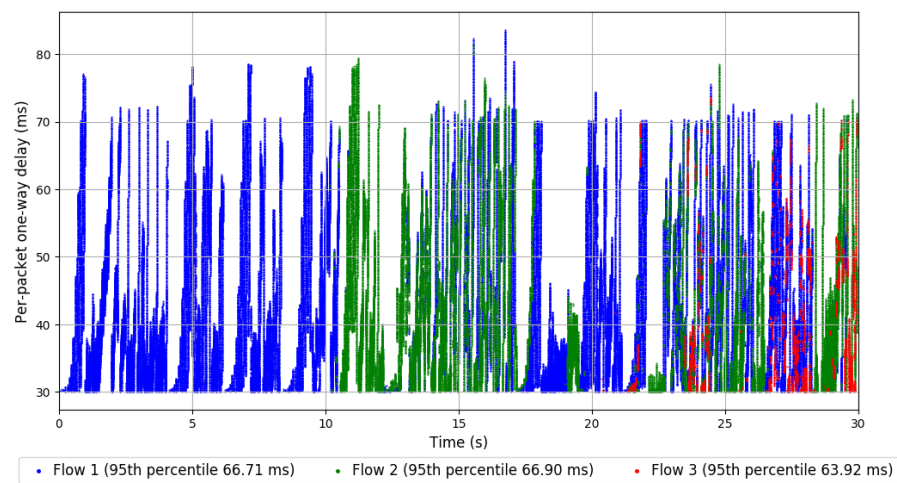
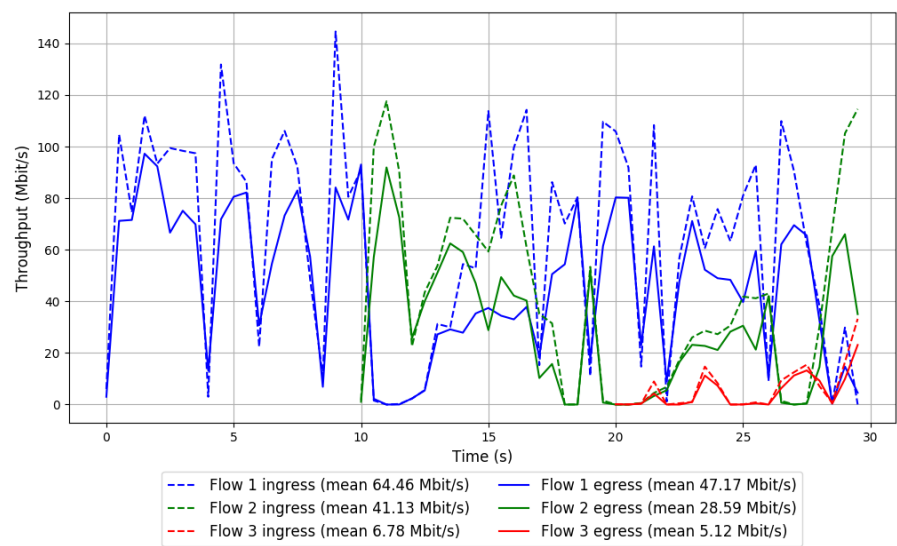
-- Flow 3:

Average throughput: 5.12 Mbit/s

95th percentile per-packet one-way delay: 63.922 ms

Loss rate: 24.36%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-04-25 00:15:37

End at: 2018-04-25 00:16:07

Local clock offset: 1.003 ms

Remote clock offset: 0.609 ms

# Below is generated by plot.py at 2018-04-25 01:54:56

# Datalink statistics

-- Total of 3 flows:

Average throughput: 60.78 Mbit/s

95th percentile per-packet one-way delay: 66.283 ms

Loss rate: 24.63%

-- Flow 1:

Average throughput: 44.52 Mbit/s

95th percentile per-packet one-way delay: 65.571 ms

Loss rate: 21.86%

-- Flow 2:

Average throughput: 16.08 Mbit/s

95th percentile per-packet one-way delay: 66.797 ms

Loss rate: 20.41%

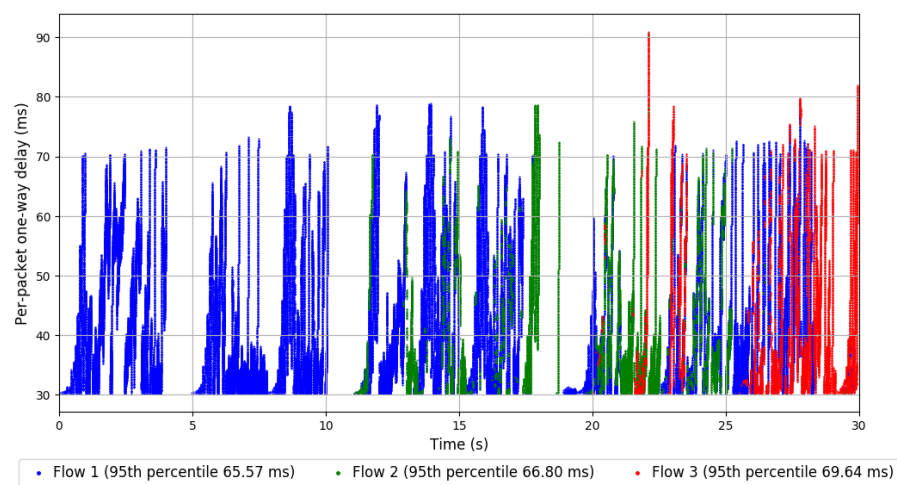
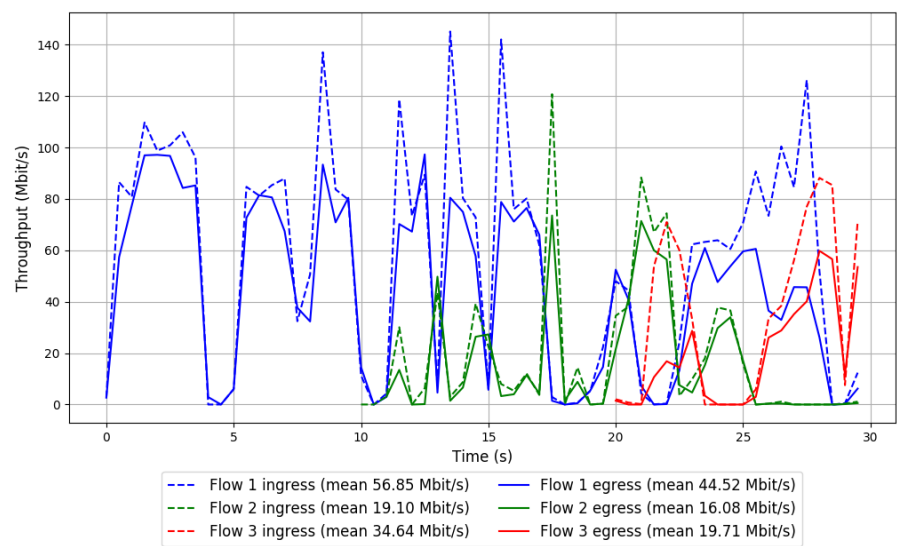
-- Flow 3:

Average throughput: 19.71 Mbit/s

95th percentile per-packet one-way delay: 69.641 ms

Loss rate: 42.97%

Run 8: Report of Verus — Data Link



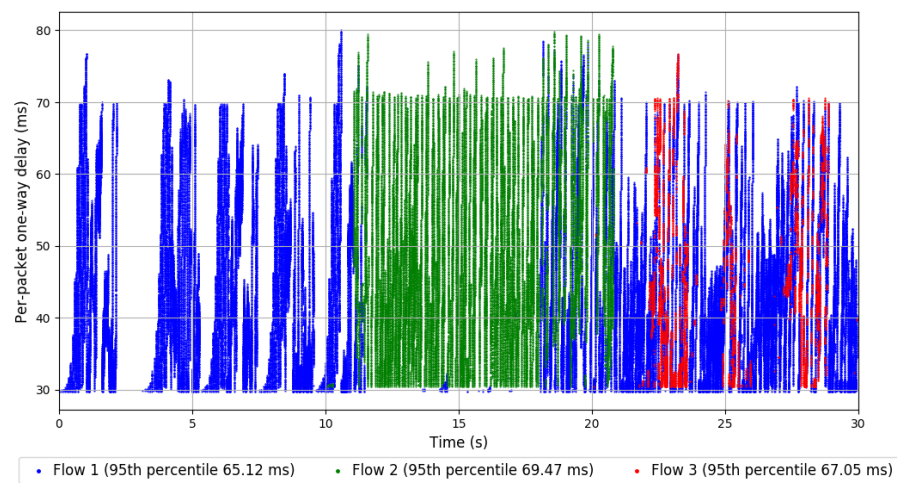
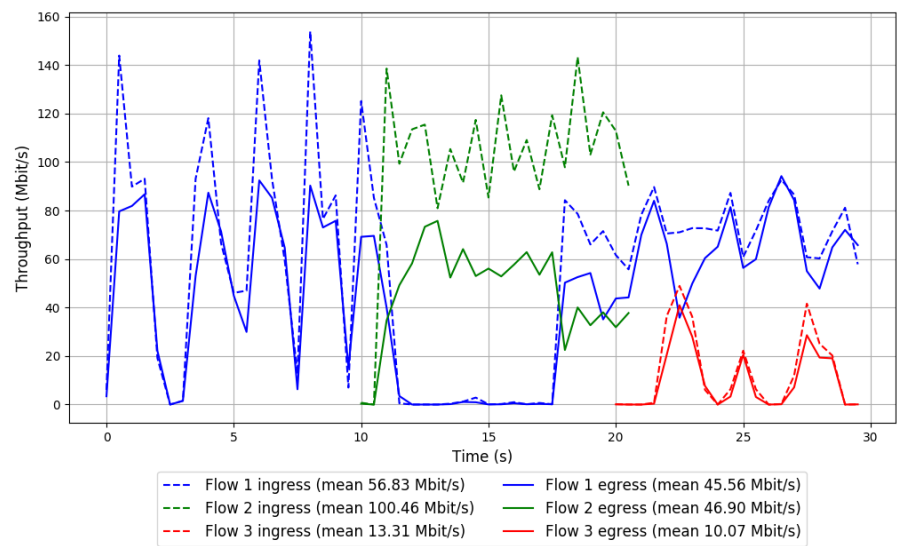


Run 9: Statistics of Verus

Start at: 2018-04-25 00:41:52  
End at: 2018-04-25 00:42:22  
Local clock offset: 1.039 ms  
Remote clock offset: -0.752 ms

# Below is generated by plot.py at 2018-04-25 01:54:56  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 65.77 Mbit/s  
95th percentile per-packet one-way delay: 66.919 ms  
Loss rate: 32.37%  
-- Flow 1:  
Average throughput: 45.56 Mbit/s  
95th percentile per-packet one-way delay: 65.121 ms  
Loss rate: 19.79%  
-- Flow 2:  
Average throughput: 46.90 Mbit/s  
95th percentile per-packet one-way delay: 69.473 ms  
Loss rate: 53.18%  
-- Flow 3:  
Average throughput: 10.07 Mbit/s  
95th percentile per-packet one-way delay: 67.054 ms  
Loss rate: 24.25%

Run 9: Report of Verus — Data Link

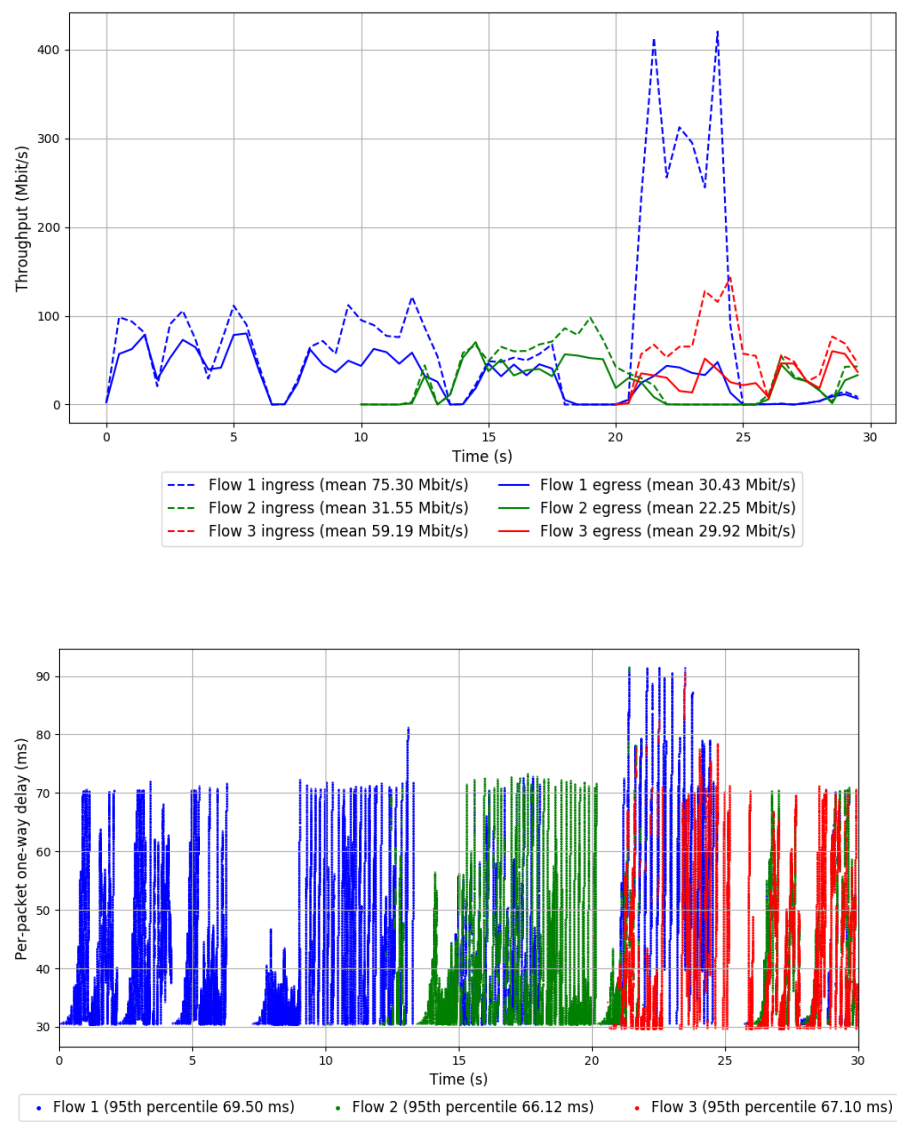


Run 10: Statistics of Verus

Start at: 2018-04-25 01:09:03  
End at: 2018-04-25 01:09:33  
Local clock offset: 1.129 ms  
Remote clock offset: -4.493 ms

# Below is generated by plot.py at 2018-04-25 01:54:56  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 55.01 Mbit/s  
95th percentile per-packet one-way delay: 68.316 ms  
Loss rate: 52.43%  
-- Flow 1:  
Average throughput: 30.43 Mbit/s  
95th percentile per-packet one-way delay: 69.497 ms  
Loss rate: 59.59%  
-- Flow 2:  
Average throughput: 22.25 Mbit/s  
95th percentile per-packet one-way delay: 66.119 ms  
Loss rate: 29.41%  
-- Flow 3:  
Average throughput: 29.92 Mbit/s  
95th percentile per-packet one-way delay: 67.101 ms  
Loss rate: 49.48%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2018-04-24 21:04:39

End at: 2018-04-24 21:05:09

Local clock offset: 1.253 ms

Remote clock offset: 0.421 ms

# Below is generated by plot.py at 2018-04-25 02:01:24

# Datalink statistics

-- Total of 3 flows:

Average throughput: 87.49 Mbit/s

95th percentile per-packet one-way delay: 60.636 ms

Loss rate: 87.93%

-- Flow 1:

Average throughput: 87.49 Mbit/s

95th percentile per-packet one-way delay: 60.636 ms

Loss rate: 87.93%

-- Flow 2:

Average throughput: 0.00 Mbit/s

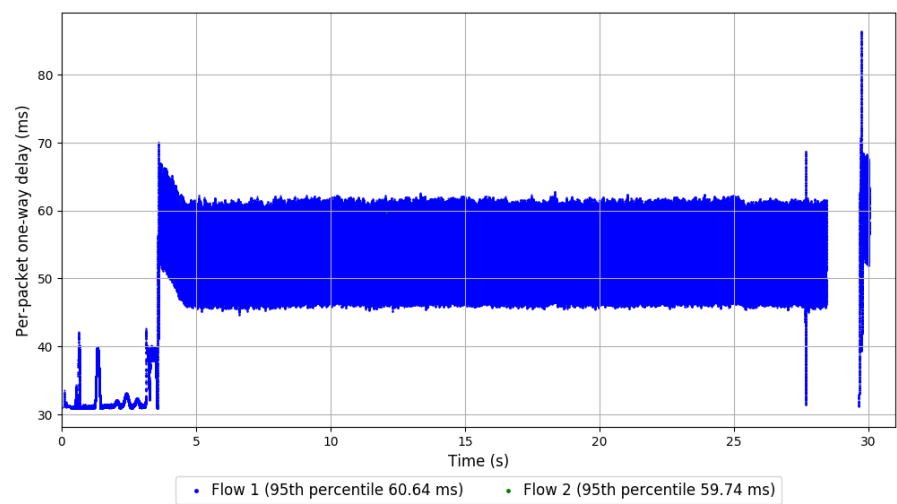
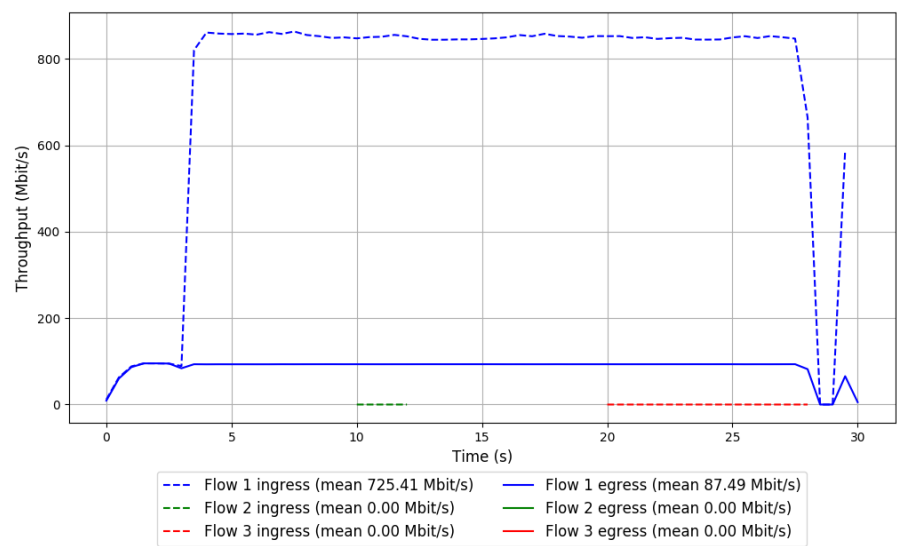
95th percentile per-packet one-way delay: 59.738 ms

Loss rate: 50.00%

-- Flow 3:

Average throughput: 0.00 Mbit/s

Run 1: Report of Copa — Data Link

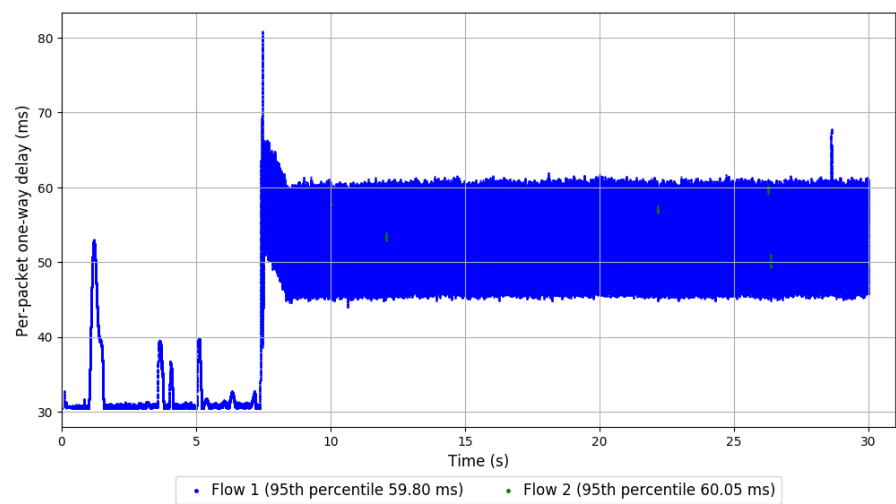
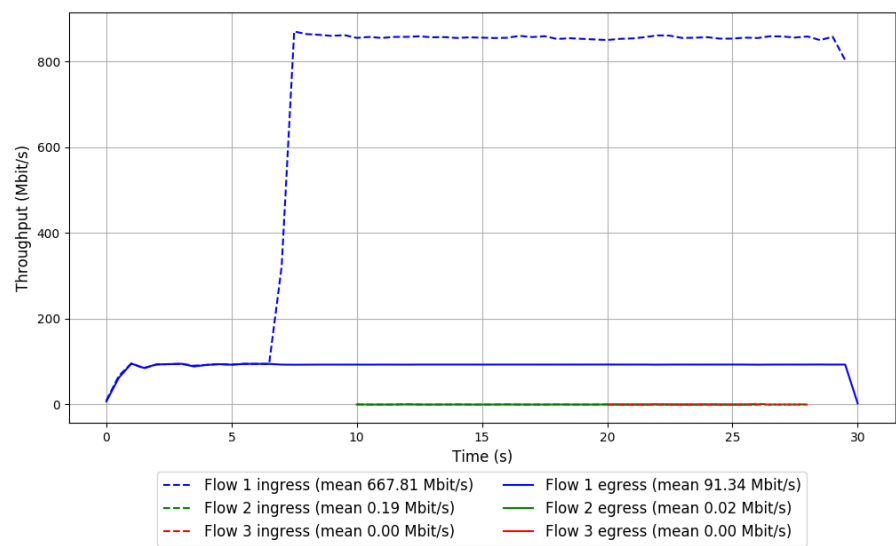


Run 2: Statistics of Copa

Start at: 2018-04-24 21:29:52  
End at: 2018-04-24 21:30:23  
Local clock offset: 1.344 ms  
Remote clock offset: -0.381 ms

# Below is generated by plot.py at 2018-04-25 02:01:24  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 91.35 Mbit/s  
95th percentile per-packet one-way delay: 59.800 ms  
Loss rate: 86.32%  
-- Flow 1:  
Average throughput: 91.34 Mbit/s  
95th percentile per-packet one-way delay: 59.799 ms  
Loss rate: 86.32%  
-- Flow 2:  
Average throughput: 0.02 Mbit/s  
95th percentile per-packet one-way delay: 60.047 ms  
Loss rate: 92.77%  
-- Flow 3:  
Average throughput: 0.00 Mbit/s

Run 2: Report of Copa — Data Link



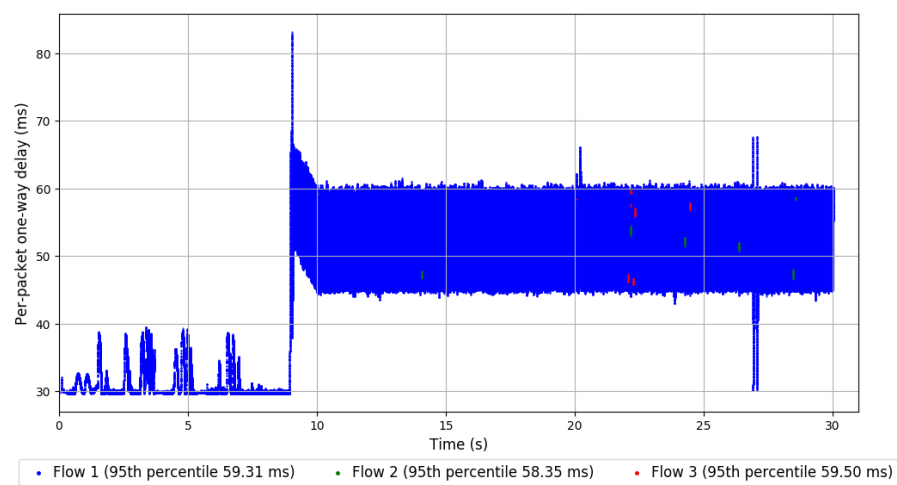
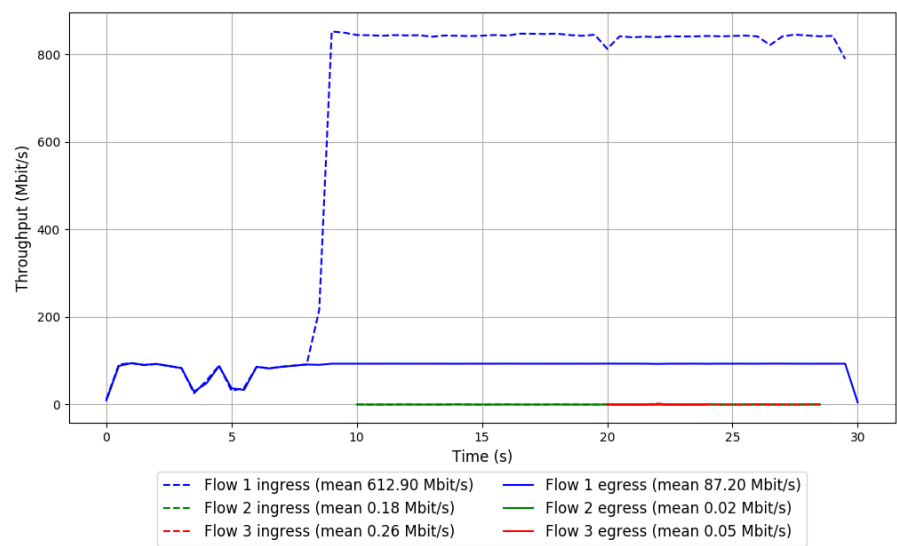


Run 3: Statistics of Copa

Start at: 2018-04-24 21:55:11  
End at: 2018-04-24 21:55:41  
Local clock offset: 0.555 ms  
Remote clock offset: -0.817 ms

# Below is generated by plot.py at 2018-04-25 02:01:24  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 87.21 Mbit/s  
95th percentile per-packet one-way delay: 59.306 ms  
Loss rate: 85.76%  
-- Flow 1:  
Average throughput: 87.20 Mbit/s  
95th percentile per-packet one-way delay: 59.306 ms  
Loss rate: 85.76%  
-- Flow 2:  
Average throughput: 0.02 Mbit/s  
95th percentile per-packet one-way delay: 58.351 ms  
Loss rate: 91.76%  
-- Flow 3:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 59.498 ms  
Loss rate: 89.85%

Run 3: Report of Copa — Data Link

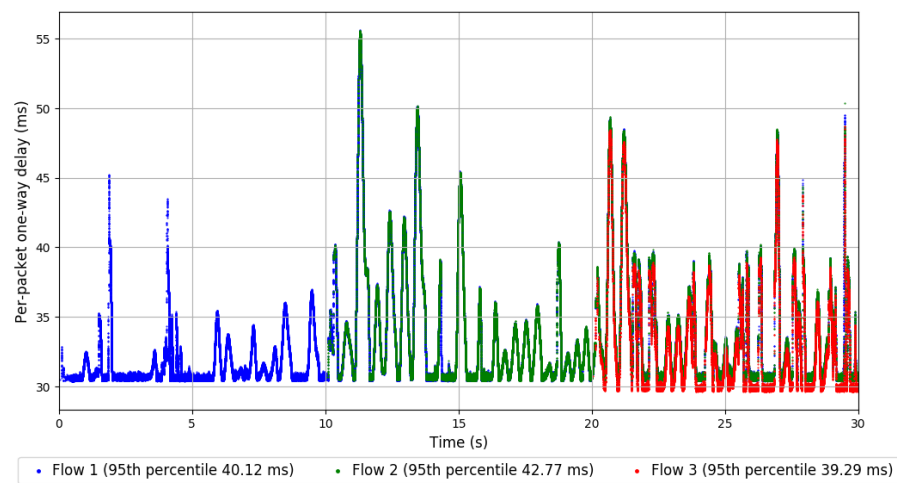
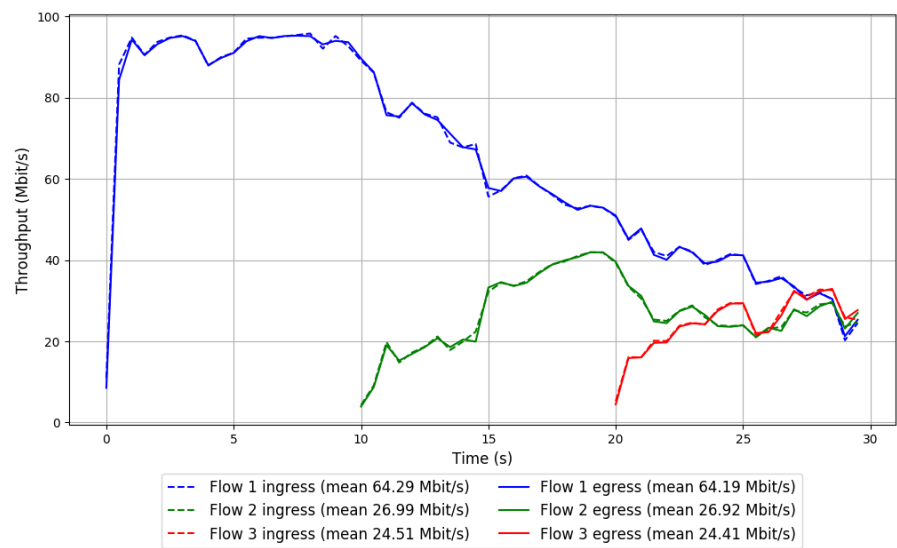


Run 4: Statistics of Copa

Start at: 2018-04-24 22:20:31  
End at: 2018-04-24 22:21:01  
Local clock offset: 0.346 ms  
Remote clock offset: -0.078 ms

# Below is generated by plot.py at 2018-04-25 02:01:24  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 90.22 Mbit/s  
95th percentile per-packet one-way delay: 40.616 ms  
Loss rate: 0.20%  
-- Flow 1:  
Average throughput: 64.19 Mbit/s  
95th percentile per-packet one-way delay: 40.118 ms  
Loss rate: 0.16%  
-- Flow 2:  
Average throughput: 26.92 Mbit/s  
95th percentile per-packet one-way delay: 42.768 ms  
Loss rate: 0.24%  
-- Flow 3:  
Average throughput: 24.41 Mbit/s  
95th percentile per-packet one-way delay: 39.290 ms  
Loss rate: 0.45%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-04-24 22:44:53

End at: 2018-04-24 22:45:23

Local clock offset: 0.37 ms

Remote clock offset: 0.115 ms

# Below is generated by plot.py at 2018-04-25 02:01:24

# Datalink statistics

-- Total of 3 flows:

Average throughput: 85.66 Mbit/s

95th percentile per-packet one-way delay: 40.219 ms

Loss rate: 0.39%

-- Flow 1:

Average throughput: 61.13 Mbit/s

95th percentile per-packet one-way delay: 39.860 ms

Loss rate: 0.46%

-- Flow 2:

Average throughput: 25.36 Mbit/s

95th percentile per-packet one-way delay: 43.866 ms

Loss rate: 0.28%

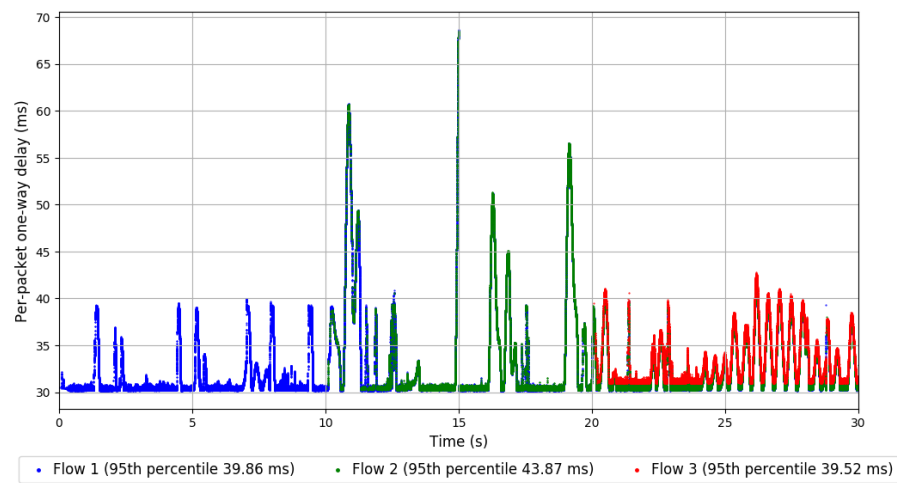
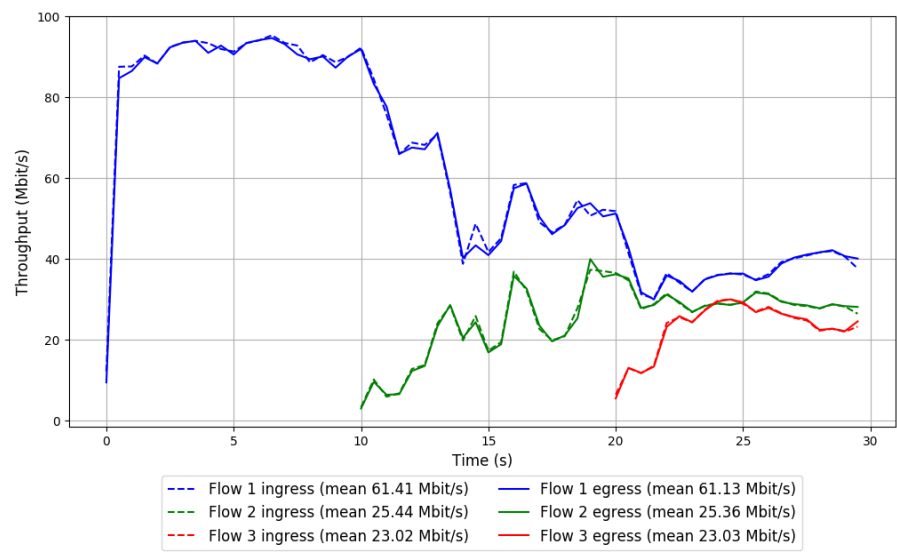
-- Flow 3:

Average throughput: 23.03 Mbit/s

95th percentile per-packet one-way delay: 39.520 ms

Loss rate: 0.02%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-04-24 23:09:36

End at: 2018-04-24 23:10:06

Local clock offset: 0.737 ms

Remote clock offset: 0.037 ms

# Below is generated by plot.py at 2018-04-25 02:01:31

# Datalink statistics

-- Total of 3 flows:

Average throughput: 87.92 Mbit/s

95th percentile per-packet one-way delay: 58.645 ms

Loss rate: 86.23%

-- Flow 1:

Average throughput: 87.92 Mbit/s

95th percentile per-packet one-way delay: 58.645 ms

Loss rate: 86.23%

-- Flow 2:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 47.768 ms

Loss rate: 80.00%

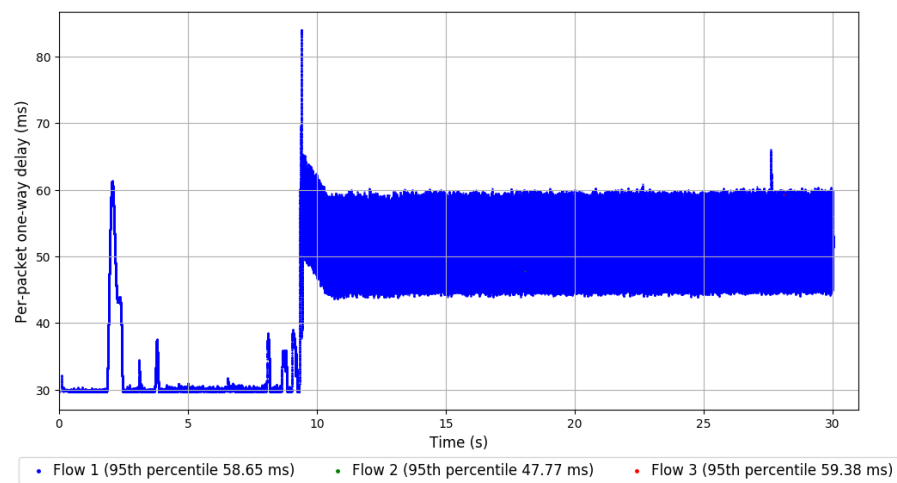
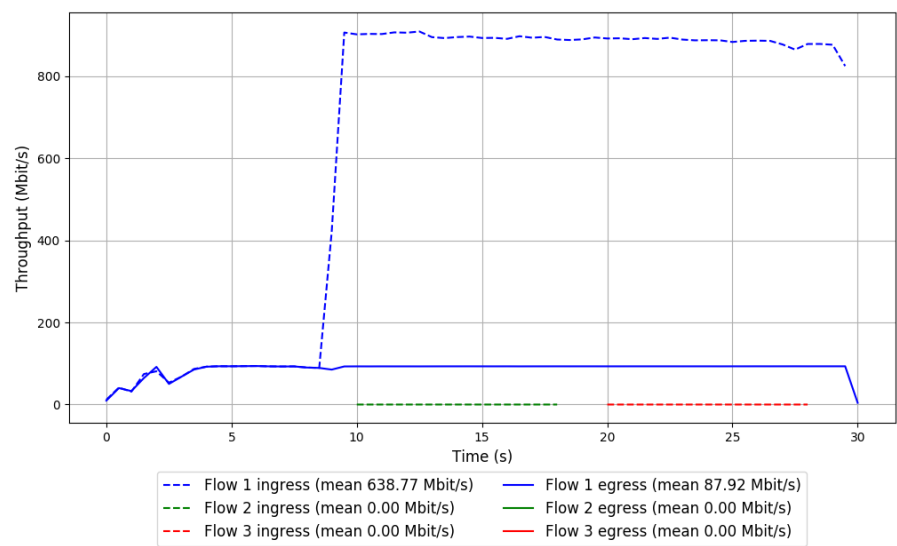
-- Flow 3:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 59.382 ms

Loss rate: 80.00%

Run 6: Report of Copa — Data Link



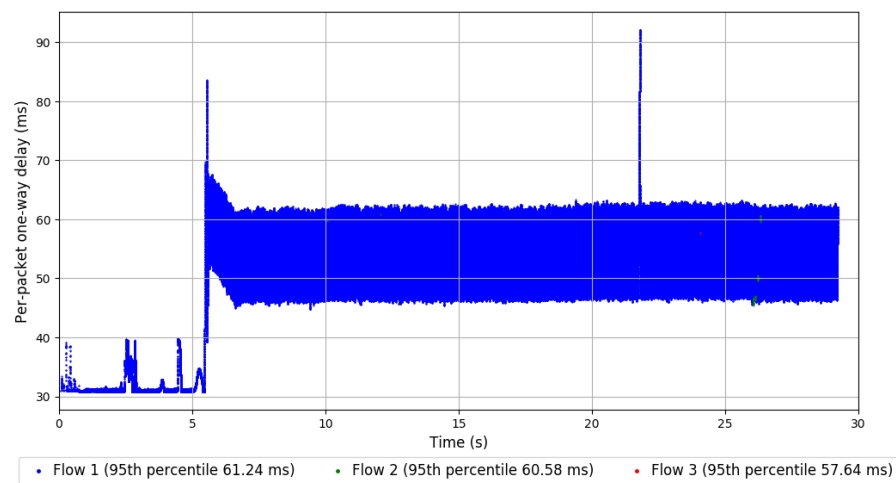
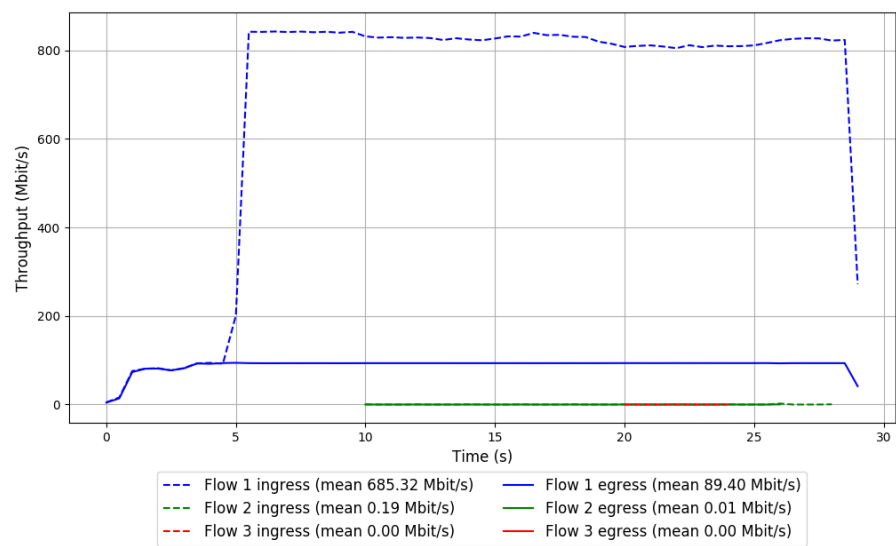


Run 7: Statistics of Copa

Start at: 2018-04-24 23:35:05  
End at: 2018-04-24 23:35:35  
Local clock offset: 0.787 ms  
Remote clock offset: 0.974 ms

# Below is generated by plot.py at 2018-04-25 02:01:50  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 89.41 Mbit/s  
95th percentile per-packet one-way delay: 61.245 ms  
Loss rate: 86.95%  
-- Flow 1:  
Average throughput: 89.40 Mbit/s  
95th percentile per-packet one-way delay: 61.245 ms  
Loss rate: 86.94%  
-- Flow 2:  
Average throughput: 0.01 Mbit/s  
95th percentile per-packet one-way delay: 60.577 ms  
Loss rate: 94.22%  
-- Flow 3:  
Average throughput: 0.00 Mbit/s  
95th percentile per-packet one-way delay: 57.638 ms  
Loss rate: 66.67%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-04-25 00:00:01

End at: 2018-04-25 00:00:31

Local clock offset: 0.762 ms

Remote clock offset: 0.81 ms

# Below is generated by plot.py at 2018-04-25 02:03:04

# Datalink statistics

-- Total of 3 flows:

Average throughput: 89.36 Mbit/s

95th percentile per-packet one-way delay: 60.427 ms

Loss rate: 88.15%

-- Flow 1:

Average throughput: 89.36 Mbit/s

95th percentile per-packet one-way delay: 60.427 ms

Loss rate: 88.15%

-- Flow 2:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 54.258 ms

Loss rate: 75.00%

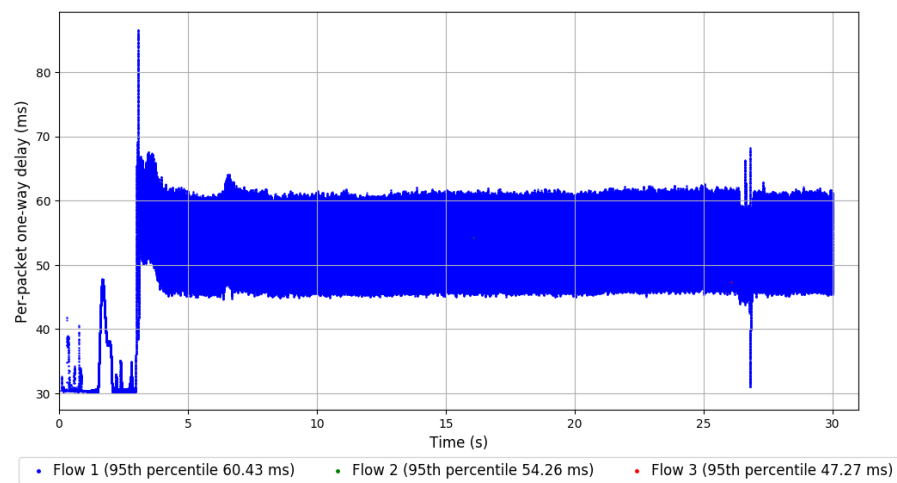
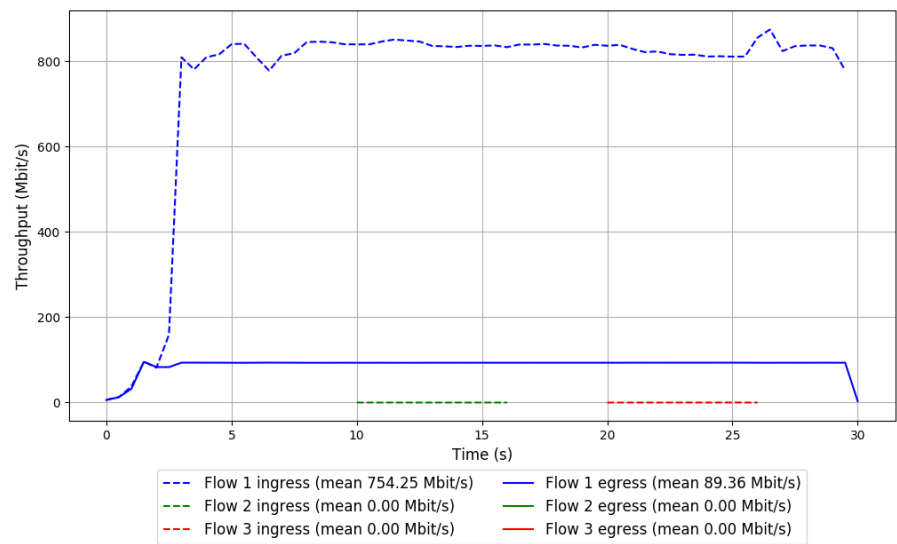
-- Flow 3:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 47.265 ms

Loss rate: 75.00%

Run 8: Report of Copa — Data Link

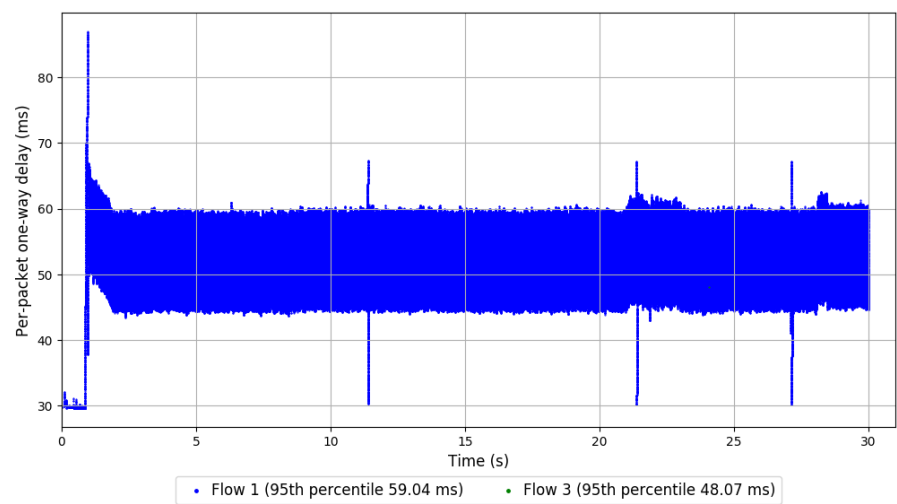
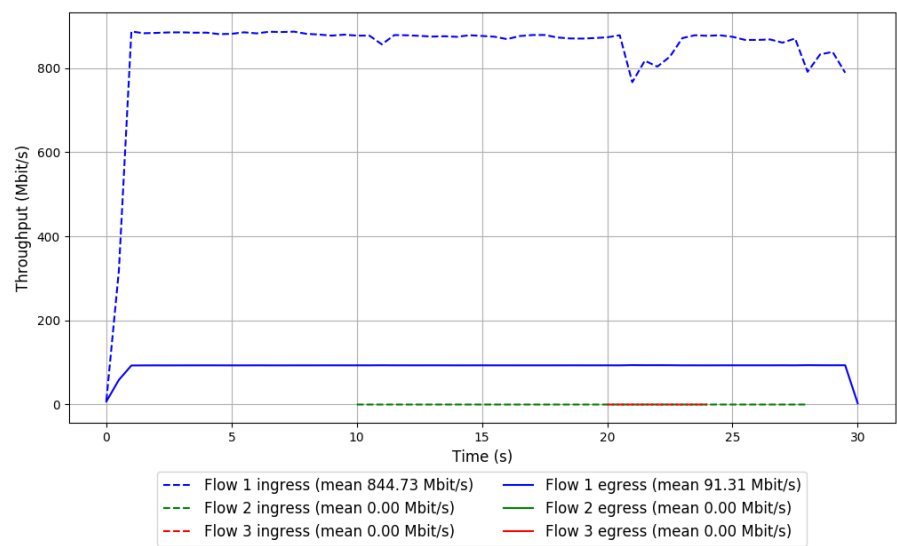


Run 9: Statistics of Copa

Start at: 2018-04-25 00:25:44  
End at: 2018-04-25 00:26:14  
Local clock offset: 1.16 ms  
Remote clock offset: -0.374 ms

# Below is generated by plot.py at 2018-04-25 02:06:11  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 91.31 Mbit/s  
95th percentile per-packet one-way delay: 59.044 ms  
Loss rate: 89.18%  
-- Flow 1:  
Average throughput: 91.31 Mbit/s  
95th percentile per-packet one-way delay: 59.044 ms  
Loss rate: 89.18%  
-- Flow 2:  
Average throughput: 0.00 Mbit/s  
-- Flow 3:  
Average throughput: 0.00 Mbit/s  
95th percentile per-packet one-way delay: 48.070 ms  
Loss rate: 66.67%

Run 9: Report of Copa — Data Link

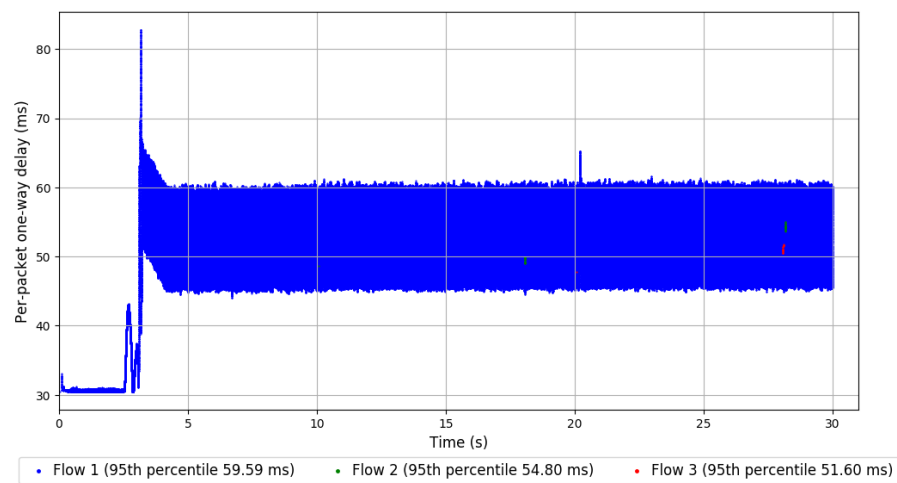
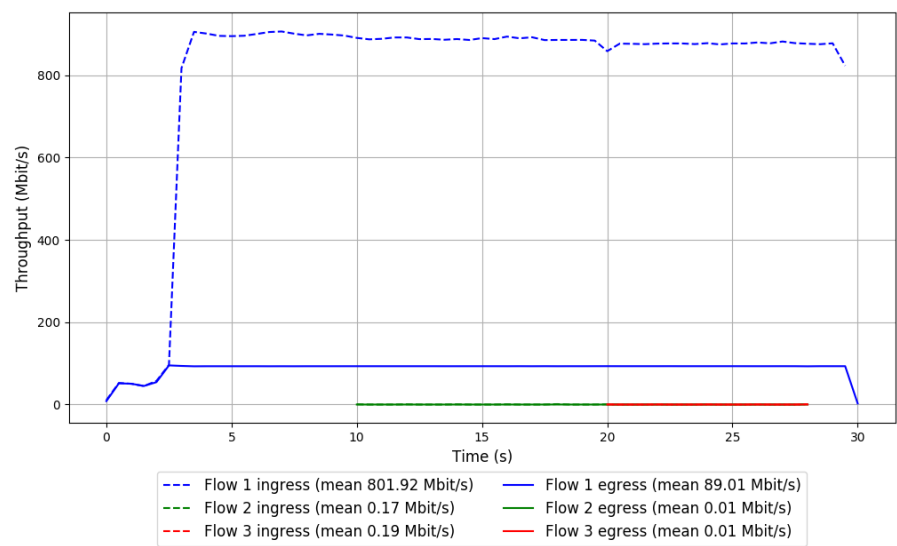


Run 10: Statistics of Copa

Start at: 2018-04-25 00:52:40  
End at: 2018-04-25 00:53:10  
Local clock offset: 1.091 ms  
Remote clock offset: -2.651 ms

# Below is generated by plot.py at 2018-04-25 02:06:11  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 89.02 Mbit/s  
95th percentile per-packet one-way delay: 59.592 ms  
Loss rate: 88.90%  
-- Flow 1:  
Average throughput: 89.01 Mbit/s  
95th percentile per-packet one-way delay: 59.592 ms  
Loss rate: 88.89%  
-- Flow 2:  
Average throughput: 0.01 Mbit/s  
95th percentile per-packet one-way delay: 54.805 ms  
Loss rate: 95.20%  
-- Flow 3:  
Average throughput: 0.01 Mbit/s  
95th percentile per-packet one-way delay: 51.600 ms  
Loss rate: 97.05%

Run 10: Report of Copa — Data Link



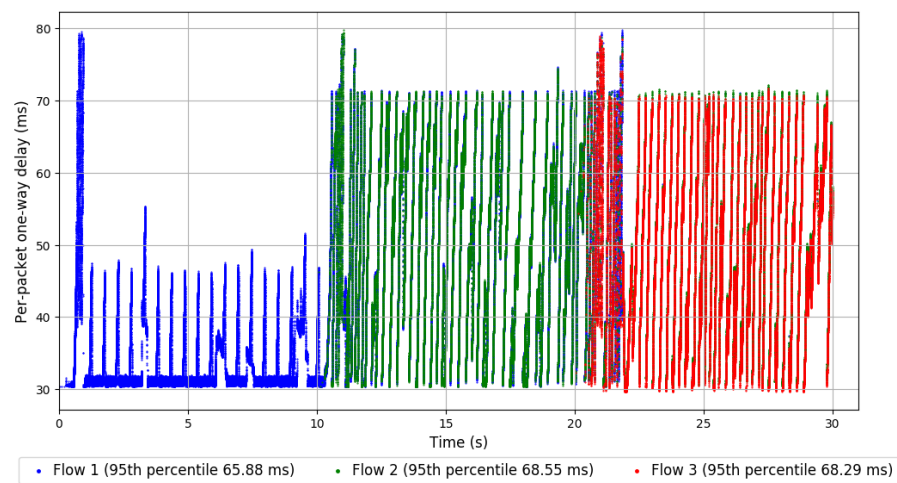
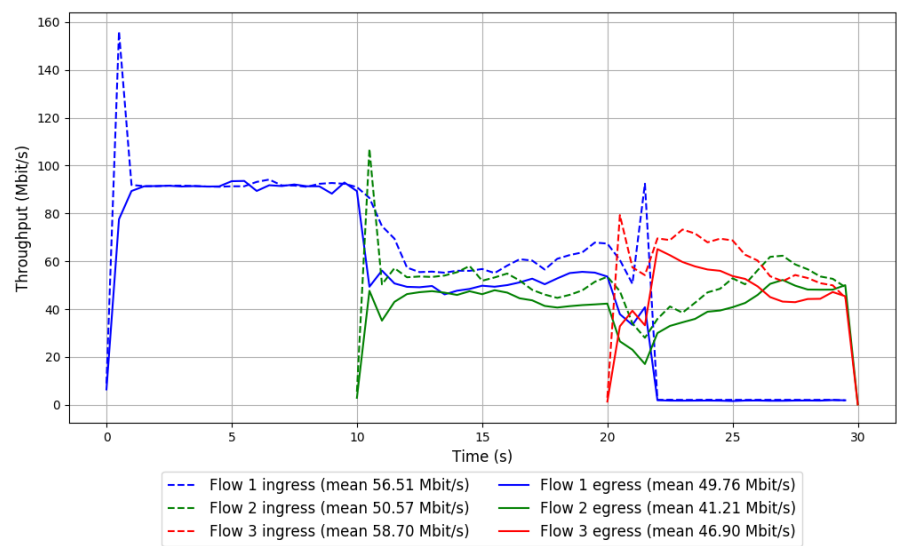


Run 1: Statistics of FillP

Start at: 2018-04-24 21:10:42  
End at: 2018-04-24 21:11:12  
Local clock offset: 1.255 ms  
Remote clock offset: -0.162 ms

# Below is generated by plot.py at 2018-04-25 02:06:11  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 92.74 Mbit/s  
95th percentile per-packet one-way delay: 67.600 ms  
Loss rate: 15.32%  
-- Flow 1:  
Average throughput: 49.76 Mbit/s  
95th percentile per-packet one-way delay: 65.879 ms  
Loss rate: 11.88%  
-- Flow 2:  
Average throughput: 41.21 Mbit/s  
95th percentile per-packet one-way delay: 68.545 ms  
Loss rate: 18.45%  
-- Flow 3:  
Average throughput: 46.90 Mbit/s  
95th percentile per-packet one-way delay: 68.286 ms  
Loss rate: 19.90%

Run 1: Report of FillP — Data Link

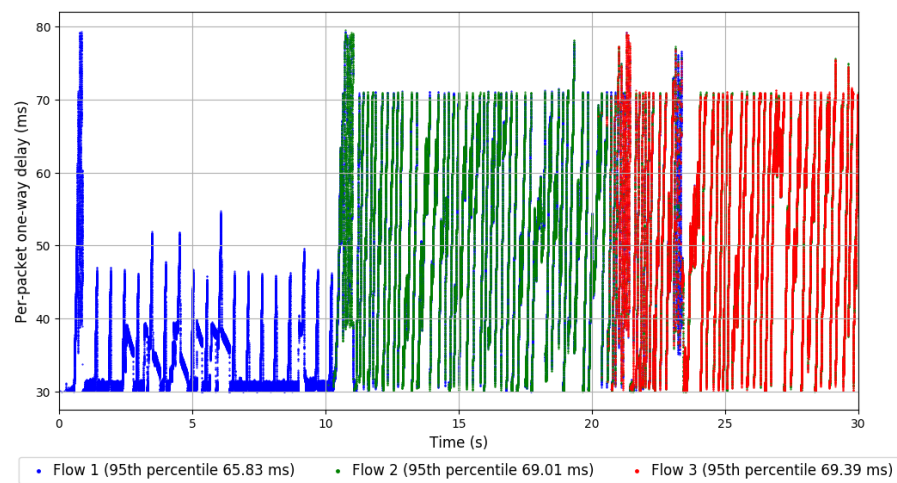
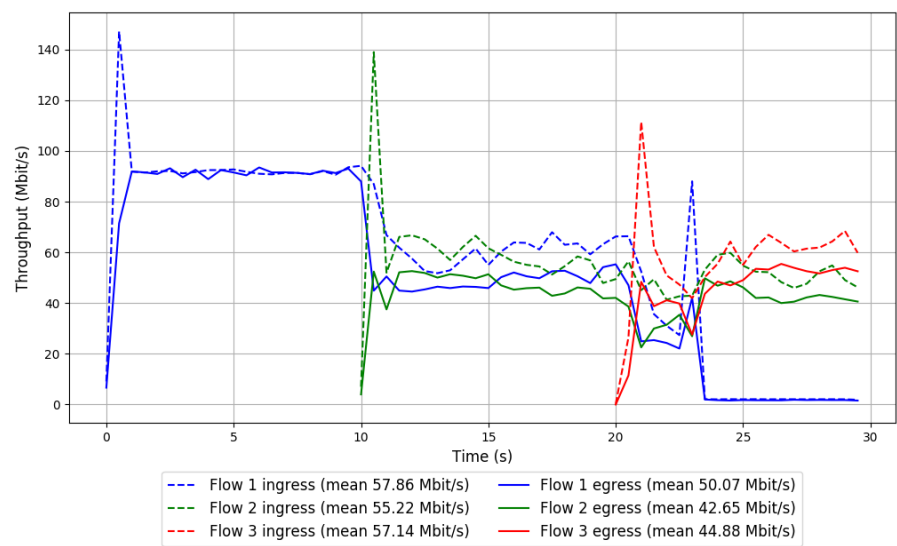


Run 2: Statistics of FillP

Start at: 2018-04-24 21:35:49  
End at: 2018-04-24 21:36:19  
Local clock offset: 1.185 ms  
Remote clock offset: -0.053 ms

# Below is generated by plot.py at 2018-04-25 02:06:11  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.06 Mbit/s  
95th percentile per-packet one-way delay: 68.093 ms  
Loss rate: 18.01%  
-- Flow 1:  
Average throughput: 50.07 Mbit/s  
95th percentile per-packet one-way delay: 65.831 ms  
Loss rate: 13.44%  
-- Flow 2:  
Average throughput: 42.65 Mbit/s  
95th percentile per-packet one-way delay: 69.011 ms  
Loss rate: 22.71%  
-- Flow 3:  
Average throughput: 44.88 Mbit/s  
95th percentile per-packet one-way delay: 69.390 ms  
Loss rate: 22.87%

Run 2: Report of FillP — Data Link

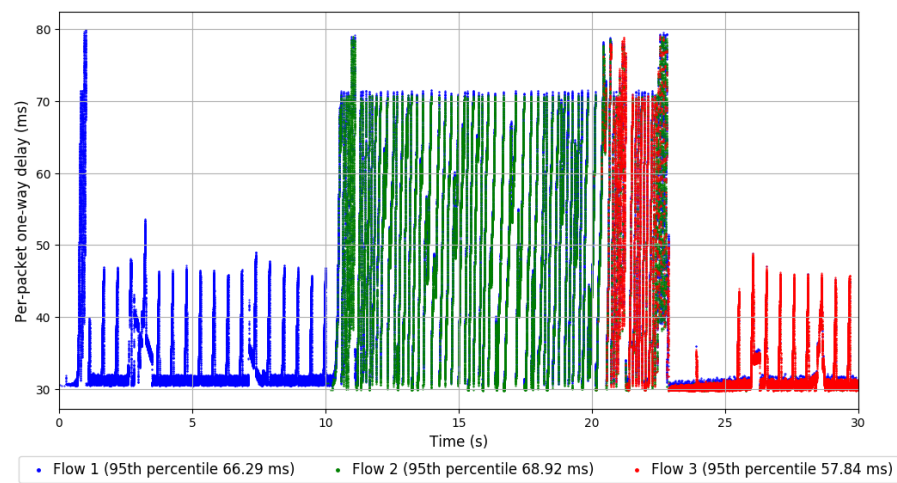
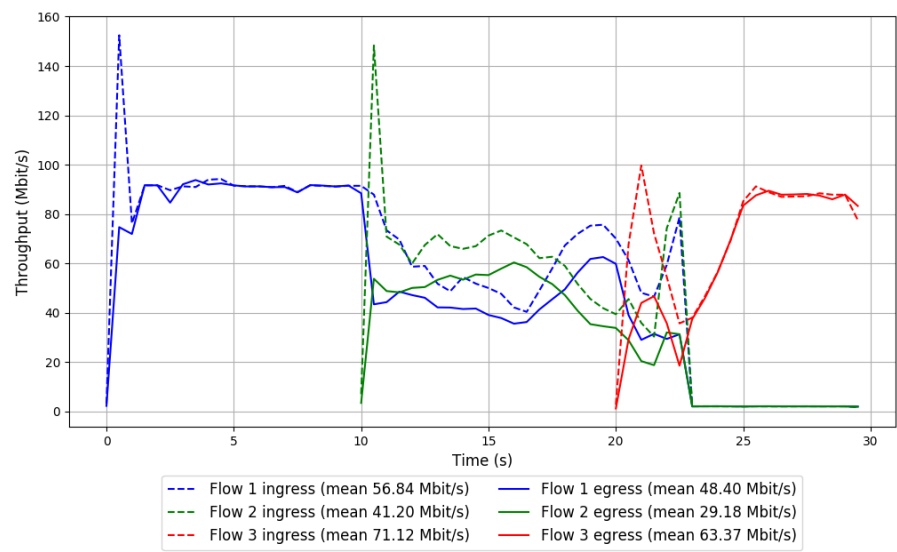


Run 3: Statistics of FillP

Start at: 2018-04-24 22:01:07  
End at: 2018-04-24 22:01:37  
Local clock offset: 0.467 ms  
Remote clock offset: -0.298 ms

# Below is generated by plot.py at 2018-04-25 02:06:11  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 88.75 Mbit/s  
95th percentile per-packet one-way delay: 66.829 ms  
Loss rate: 17.68%  
-- Flow 1:  
Average throughput: 48.40 Mbit/s  
95th percentile per-packet one-way delay: 66.287 ms  
Loss rate: 14.84%  
-- Flow 2:  
Average throughput: 29.18 Mbit/s  
95th percentile per-packet one-way delay: 68.915 ms  
Loss rate: 29.19%  
-- Flow 3:  
Average throughput: 63.37 Mbit/s  
95th percentile per-packet one-way delay: 57.838 ms  
Loss rate: 11.16%

Run 3: Report of FillP — Data Link

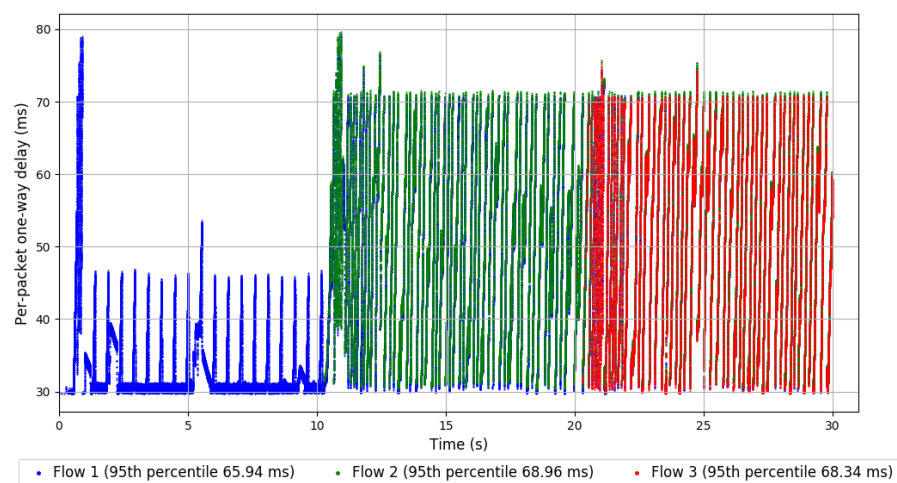
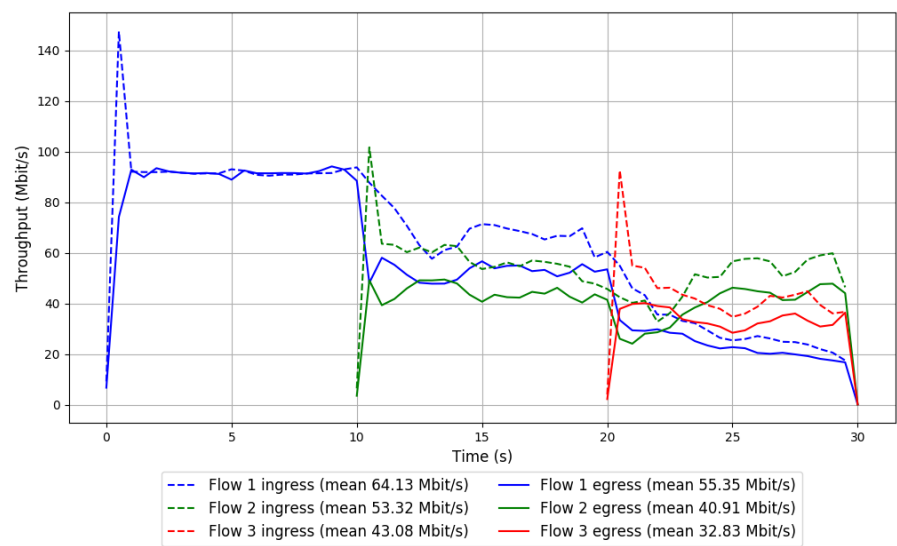


Run 4: Statistics of FillP

Start at: 2018-04-24 22:26:08  
End at: 2018-04-24 22:26:38  
Local clock offset: 0.314 ms  
Remote clock offset: -0.038 ms

# Below is generated by plot.py at 2018-04-25 02:06:11  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.48 Mbit/s  
95th percentile per-packet one-way delay: 67.683 ms  
Loss rate: 17.87%  
-- Flow 1:  
Average throughput: 55.35 Mbit/s  
95th percentile per-packet one-way delay: 65.942 ms  
Loss rate: 13.62%  
-- Flow 2:  
Average throughput: 40.91 Mbit/s  
95th percentile per-packet one-way delay: 68.962 ms  
Loss rate: 23.19%  
-- Flow 3:  
Average throughput: 32.83 Mbit/s  
95th percentile per-packet one-way delay: 68.339 ms  
Loss rate: 23.72%

Run 4: Report of FillP — Data Link



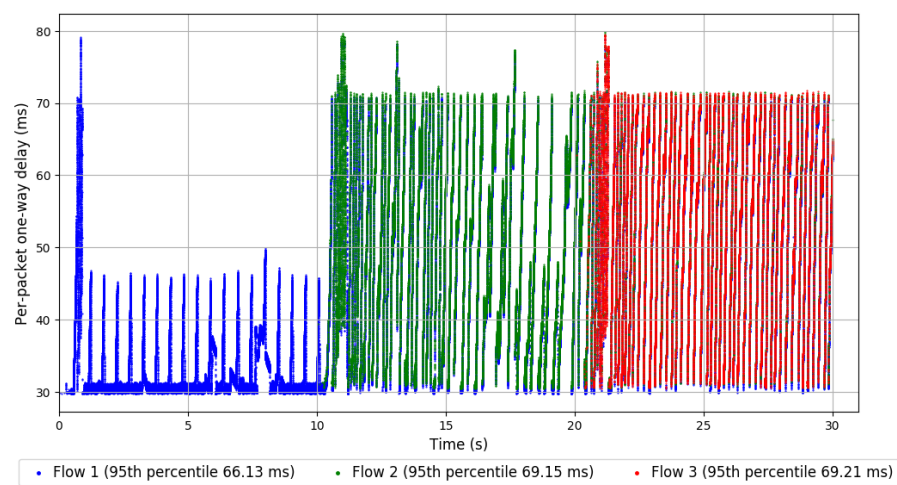
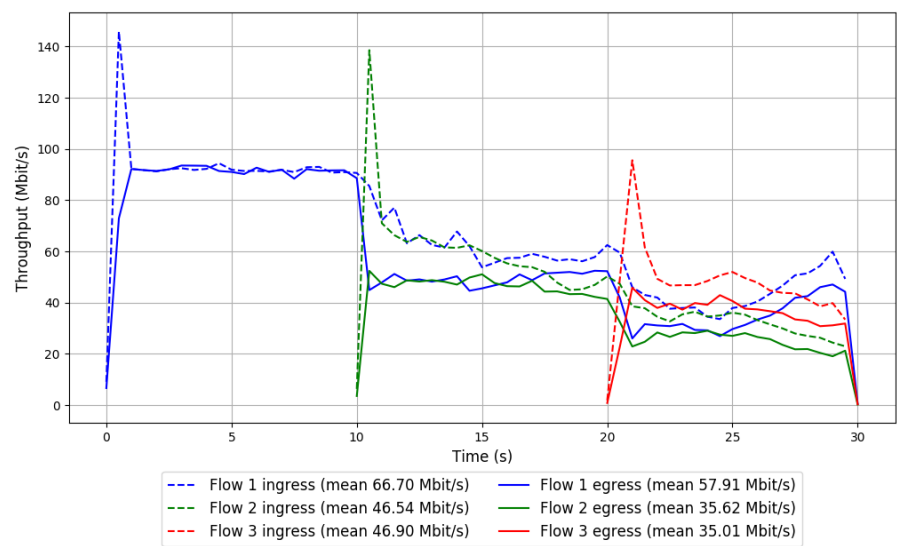


Run 5: Statistics of FillP

Start at: 2018-04-24 22:50:37  
End at: 2018-04-24 22:51:07  
Local clock offset: 0.575 ms  
Remote clock offset: -0.347 ms

# Below is generated by plot.py at 2018-04-25 02:06:11  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.22 Mbit/s  
95th percentile per-packet one-way delay: 67.853 ms  
Loss rate: 17.57%  
-- Flow 1:  
Average throughput: 57.91 Mbit/s  
95th percentile per-packet one-way delay: 66.129 ms  
Loss rate: 13.07%  
-- Flow 2:  
Average throughput: 35.62 Mbit/s  
95th percentile per-packet one-way delay: 69.148 ms  
Loss rate: 23.37%  
-- Flow 3:  
Average throughput: 35.01 Mbit/s  
95th percentile per-packet one-way delay: 69.211 ms  
Loss rate: 25.33%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-04-24 23:15:48

End at: 2018-04-24 23:16:18

Local clock offset: 0.639 ms

Remote clock offset: 0.319 ms

# Below is generated by plot.py at 2018-04-25 02:06:11

# Datalink statistics

-- Total of 3 flows:

Average throughput: 93.54 Mbit/s

95th percentile per-packet one-way delay: 68.407 ms

Loss rate: 16.94%

-- Flow 1:

Average throughput: 58.30 Mbit/s

95th percentile per-packet one-way delay: 67.391 ms

Loss rate: 13.03%

-- Flow 2:

Average throughput: 39.36 Mbit/s

95th percentile per-packet one-way delay: 69.286 ms

Loss rate: 22.95%

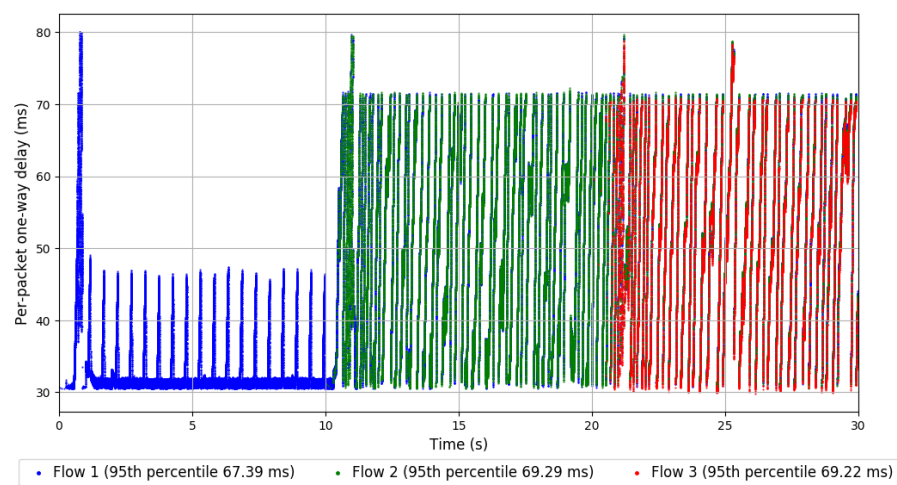
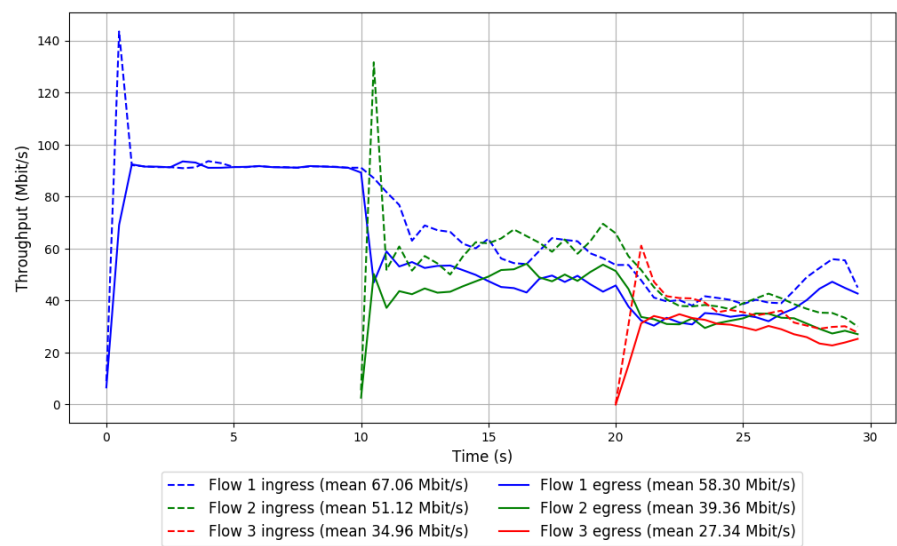
-- Flow 3:

Average throughput: 27.34 Mbit/s

95th percentile per-packet one-way delay: 69.222 ms

Loss rate: 21.94%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-04-24 23:41:06

End at: 2018-04-24 23:41:36

Local clock offset: 0.757 ms

Remote clock offset: 0.423 ms

# Below is generated by plot.py at 2018-04-25 02:06:11

# Datalink statistics

-- Total of 3 flows:

Average throughput: 93.34 Mbit/s

95th percentile per-packet one-way delay: 67.525 ms

Loss rate: 17.45%

-- Flow 1:

Average throughput: 57.91 Mbit/s

95th percentile per-packet one-way delay: 66.215 ms

Loss rate: 13.77%

-- Flow 2:

Average throughput: 40.74 Mbit/s

95th percentile per-packet one-way delay: 68.314 ms

Loss rate: 22.21%

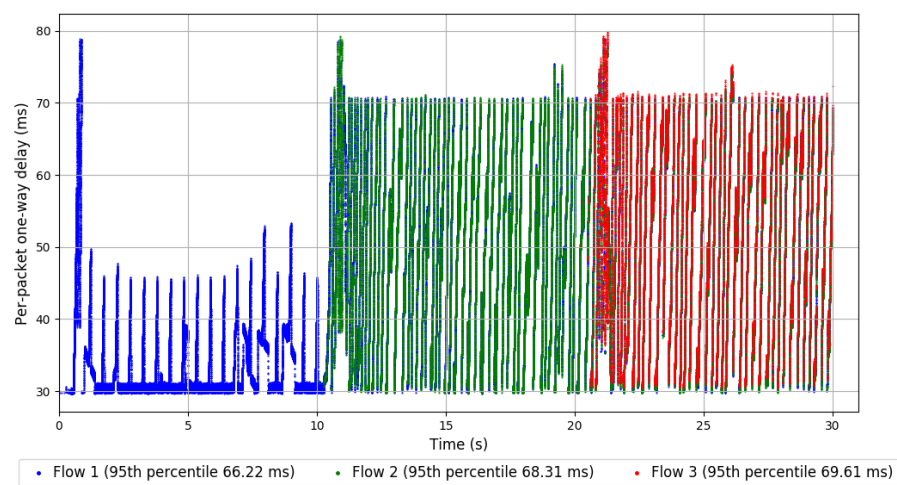
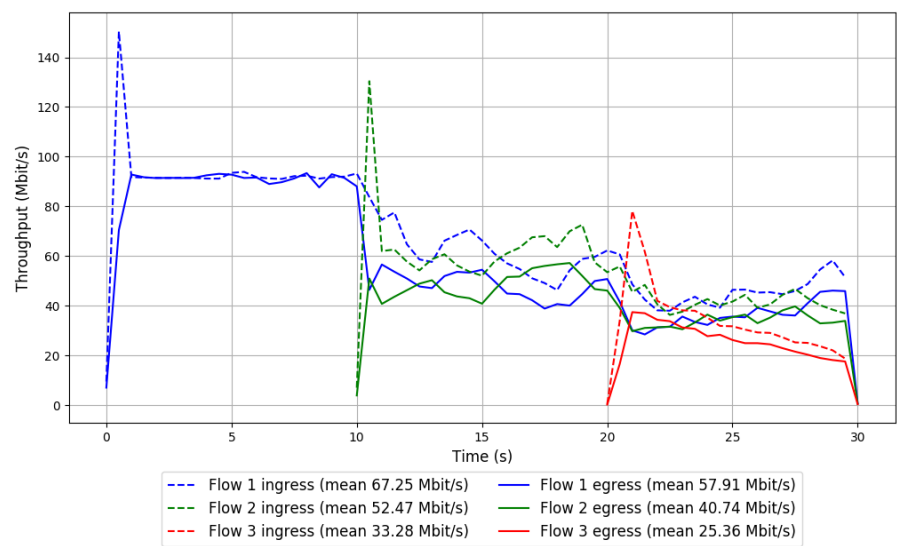
-- Flow 3:

Average throughput: 25.36 Mbit/s

95th percentile per-packet one-way delay: 69.611 ms

Loss rate: 24.80%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-04-25 00:06:15

End at: 2018-04-25 00:06:45

Local clock offset: 0.896 ms

Remote clock offset: 0.605 ms

# Below is generated by plot.py at 2018-04-25 02:06:11

# Datalink statistics

-- Total of 3 flows:

Average throughput: 93.20 Mbit/s

95th percentile per-packet one-way delay: 68.135 ms

Loss rate: 18.23%

-- Flow 1:

Average throughput: 59.69 Mbit/s

95th percentile per-packet one-way delay: 66.883 ms

Loss rate: 13.29%

-- Flow 2:

Average throughput: 29.68 Mbit/s

95th percentile per-packet one-way delay: 69.346 ms

Loss rate: 26.25%

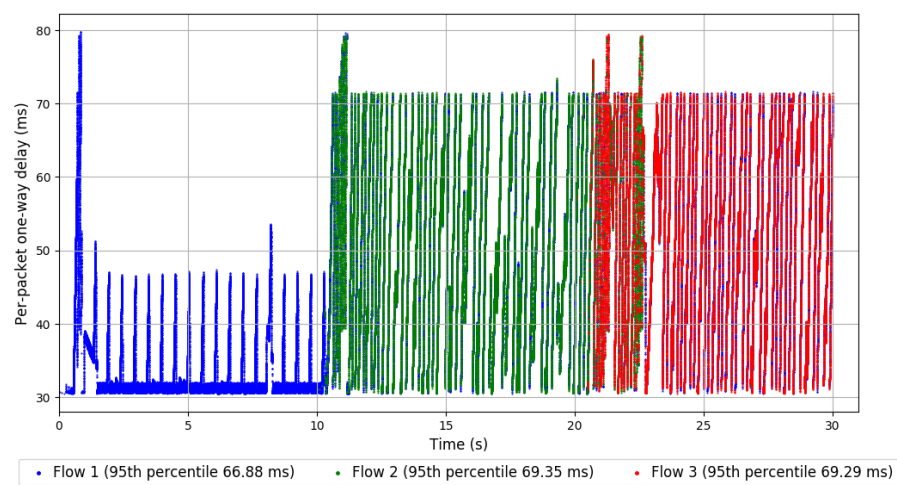
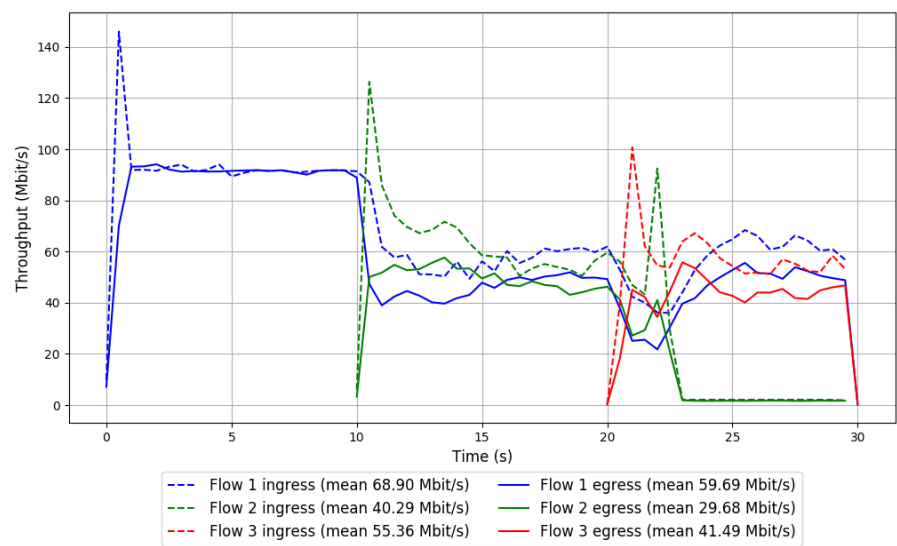
-- Flow 3:

Average throughput: 41.49 Mbit/s

95th percentile per-packet one-way delay: 69.293 ms

Loss rate: 25.06%

Run 8: Report of FillP — Data Link



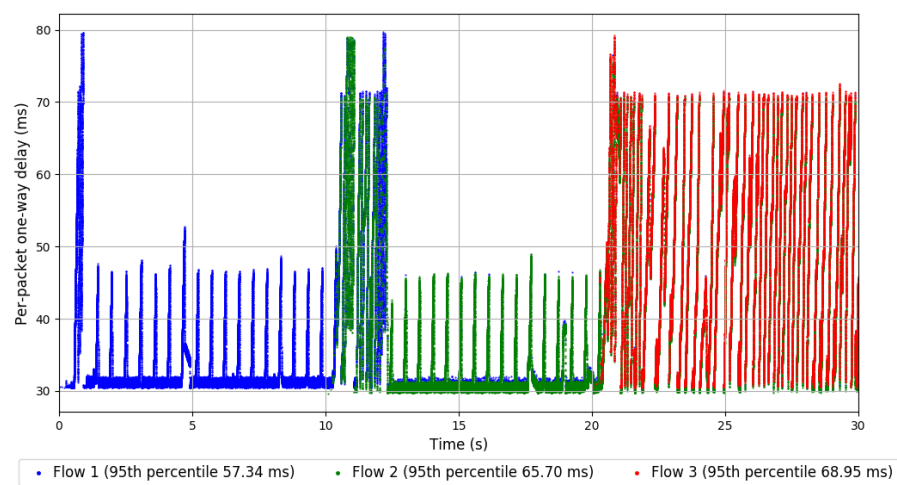
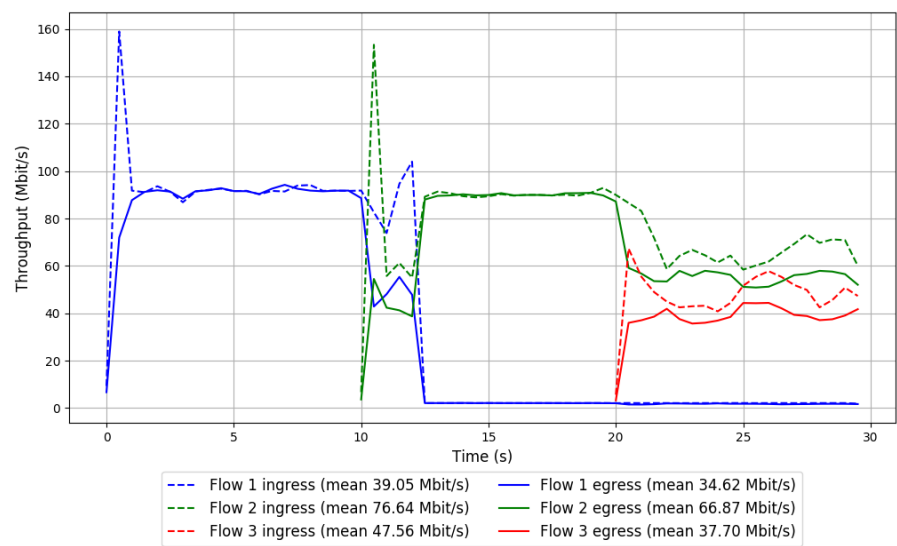


Run 9: Statistics of FillP

Start at: 2018-04-25 00:32:08  
End at: 2018-04-25 00:32:38  
Local clock offset: 1.022 ms  
Remote clock offset: -0.476 ms

# Below is generated by plot.py at 2018-04-25 02:06:11  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 91.64 Mbit/s  
95th percentile per-packet one-way delay: 65.524 ms  
Loss rate: 13.35%  
-- Flow 1:  
Average throughput: 34.62 Mbit/s  
95th percentile per-packet one-way delay: 57.342 ms  
Loss rate: 11.30%  
-- Flow 2:  
Average throughput: 66.87 Mbit/s  
95th percentile per-packet one-way delay: 65.702 ms  
Loss rate: 12.69%  
-- Flow 3:  
Average throughput: 37.70 Mbit/s  
95th percentile per-packet one-way delay: 68.952 ms  
Loss rate: 20.59%

Run 9: Report of FillP — Data Link

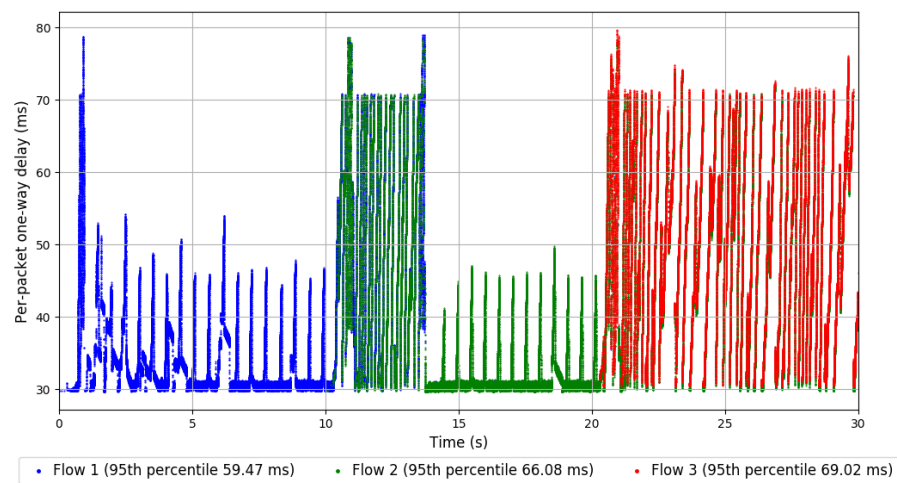
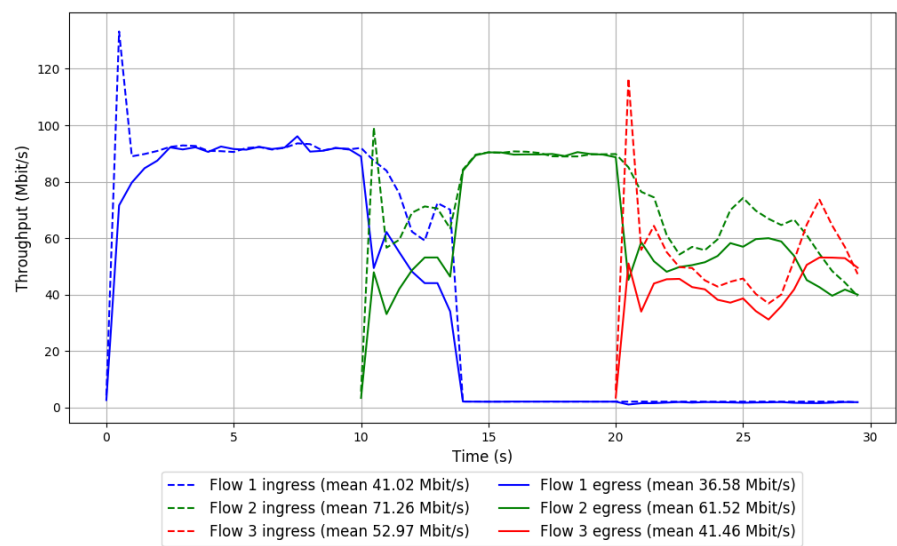


Run 10: Statistics of FillP

Start at: 2018-04-25 00:59:09  
End at: 2018-04-25 00:59:39  
Local clock offset: 1.17 ms  
Remote clock offset: -3.605 ms

# Below is generated by plot.py at 2018-04-25 02:06:11  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 91.28 Mbit/s  
95th percentile per-packet one-way delay: 65.786 ms  
Loss rate: 13.84%  
-- Flow 1:  
Average throughput: 36.58 Mbit/s  
95th percentile per-packet one-way delay: 59.471 ms  
Loss rate: 10.79%  
-- Flow 2:  
Average throughput: 61.52 Mbit/s  
95th percentile per-packet one-way delay: 66.076 ms  
Loss rate: 13.61%  
-- Flow 3:  
Average throughput: 41.46 Mbit/s  
95th percentile per-packet one-way delay: 69.023 ms  
Loss rate: 21.61%

Run 10: Report of FillP — Data Link

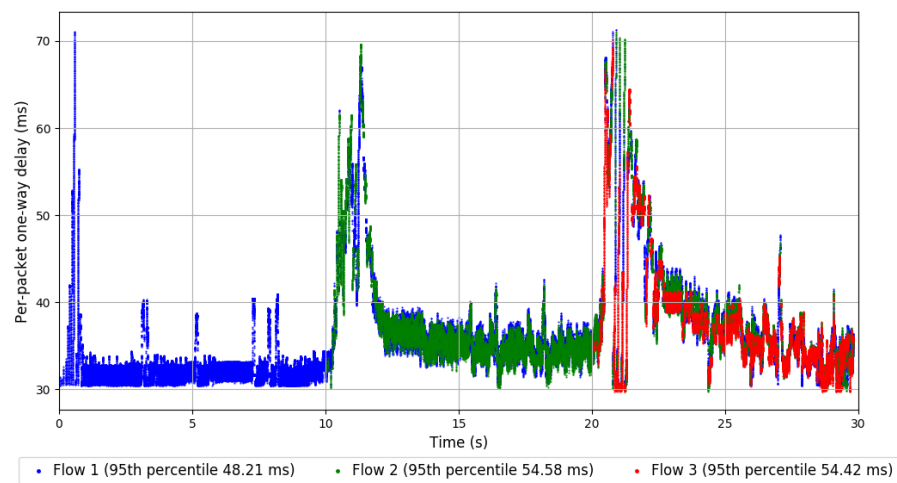
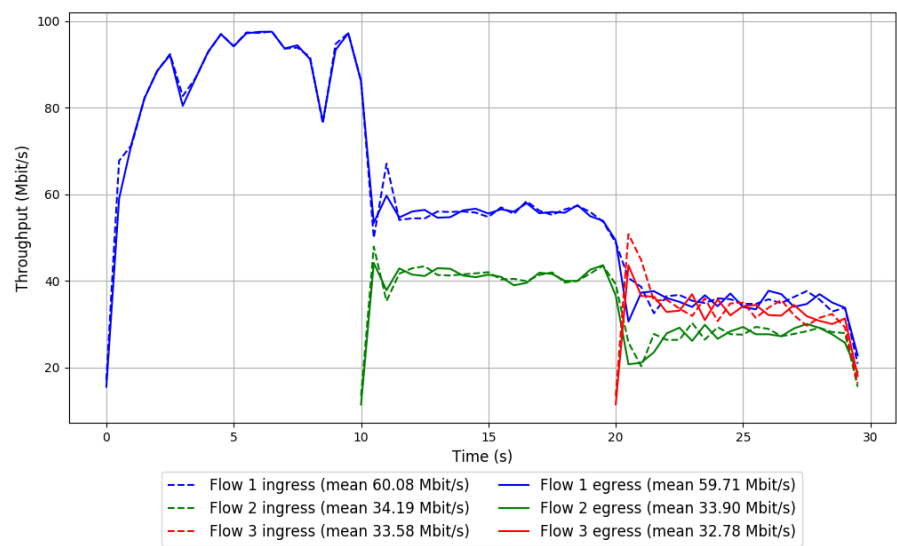


Run 1: Statistics of Indigo-1-32

Start at: 2018-04-24 21:12:06  
End at: 2018-04-24 21:12:36  
Local clock offset: 1.235 ms  
Remote clock offset: -0.166 ms

# Below is generated by plot.py at 2018-04-25 02:06:11  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 92.92 Mbit/s  
95th percentile per-packet one-way delay: 51.860 ms  
Loss rate: 0.86%  
-- Flow 1:  
Average throughput: 59.71 Mbit/s  
95th percentile per-packet one-way delay: 48.212 ms  
Loss rate: 0.60%  
-- Flow 2:  
Average throughput: 33.90 Mbit/s  
95th percentile per-packet one-way delay: 54.582 ms  
Loss rate: 0.84%  
-- Flow 3:  
Average throughput: 32.78 Mbit/s  
95th percentile per-packet one-way delay: 54.423 ms  
Loss rate: 2.34%

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

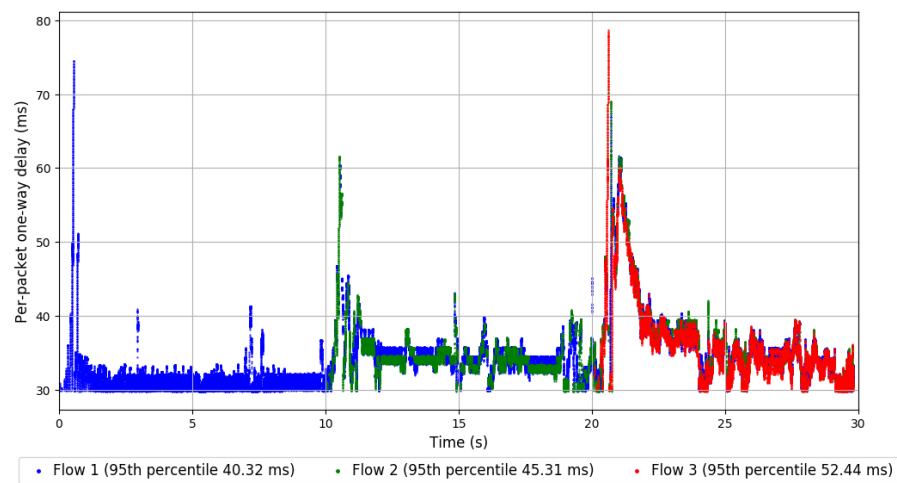
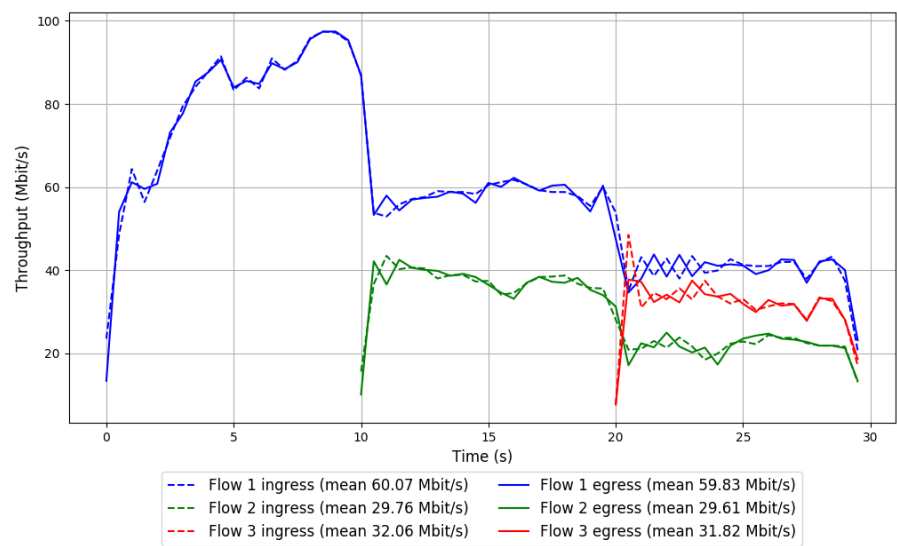


Run 2: Statistics of Indigo-1-32

Start at: 2018-04-24 21:37:19  
End at: 2018-04-24 21:37:49  
Local clock offset: 0.991 ms  
Remote clock offset: -0.512 ms

# Below is generated by plot.py at 2018-04-25 02:06:11  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 89.85 Mbit/s  
95th percentile per-packet one-way delay: 43.945 ms  
Loss rate: 0.44%  
-- Flow 1:  
Average throughput: 59.83 Mbit/s  
95th percentile per-packet one-way delay: 40.321 ms  
Loss rate: 0.38%  
-- Flow 2:  
Average throughput: 29.61 Mbit/s  
95th percentile per-packet one-way delay: 45.314 ms  
Loss rate: 0.48%  
-- Flow 3:  
Average throughput: 31.82 Mbit/s  
95th percentile per-packet one-way delay: 52.441 ms  
Loss rate: 0.74%

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





Run 3: Statistics of Indigo-1-32

Start at: 2018-04-24 22:02:32

End at: 2018-04-24 22:03:02

Local clock offset: 0.452 ms

Remote clock offset: 0.153 ms

# Below is generated by plot.py at 2018-04-25 02:06:11

# Datalink statistics

-- Total of 3 flows:

Average throughput: 88.85 Mbit/s

95th percentile per-packet one-way delay: 48.334 ms

Loss rate: 0.22%

-- Flow 1:

Average throughput: 56.12 Mbit/s

95th percentile per-packet one-way delay: 46.596 ms

Loss rate: 0.25%

-- Flow 2:

Average throughput: 36.36 Mbit/s

95th percentile per-packet one-way delay: 50.595 ms

Loss rate: 0.09%

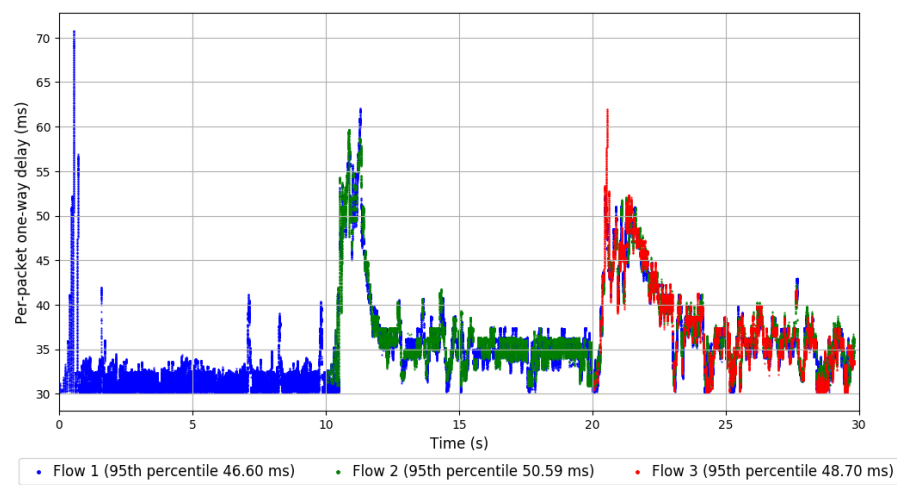
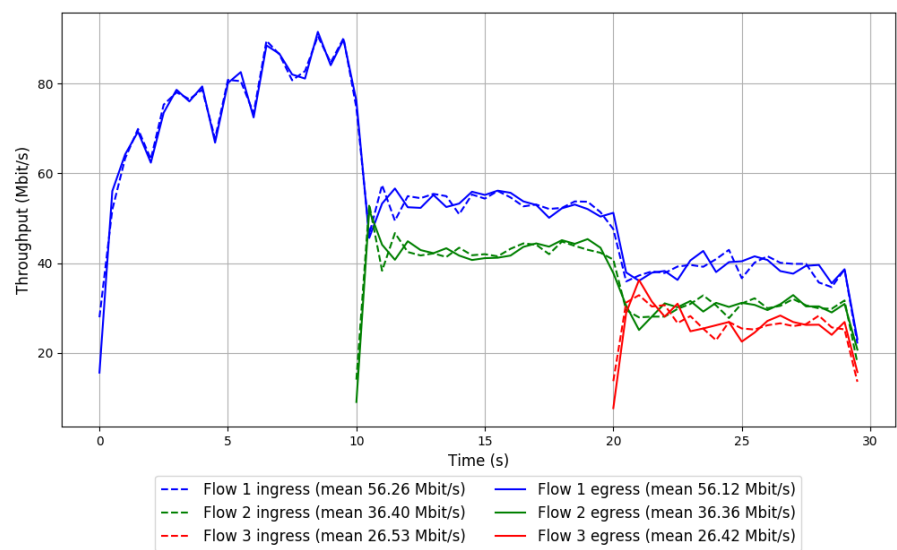
-- Flow 3:

Average throughput: 26.42 Mbit/s

95th percentile per-packet one-way delay: 48.699 ms

Loss rate: 0.41%

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



Run 4: Statistics of Indigo-1-32

Start at: 2018-04-24 22:27:31

End at: 2018-04-24 22:28:01

Local clock offset: 0.338 ms

Remote clock offset: 0.377 ms

# Below is generated by plot.py at 2018-04-25 02:06:14

# Datalink statistics

-- Total of 3 flows:

Average throughput: 94.38 Mbit/s

95th percentile per-packet one-way delay: 51.149 ms

Loss rate: 0.93%

-- Flow 1:

Average throughput: 63.56 Mbit/s

95th percentile per-packet one-way delay: 48.121 ms

Loss rate: 0.68%

-- Flow 2:

Average throughput: 32.80 Mbit/s

95th percentile per-packet one-way delay: 53.273 ms

Loss rate: 1.95%

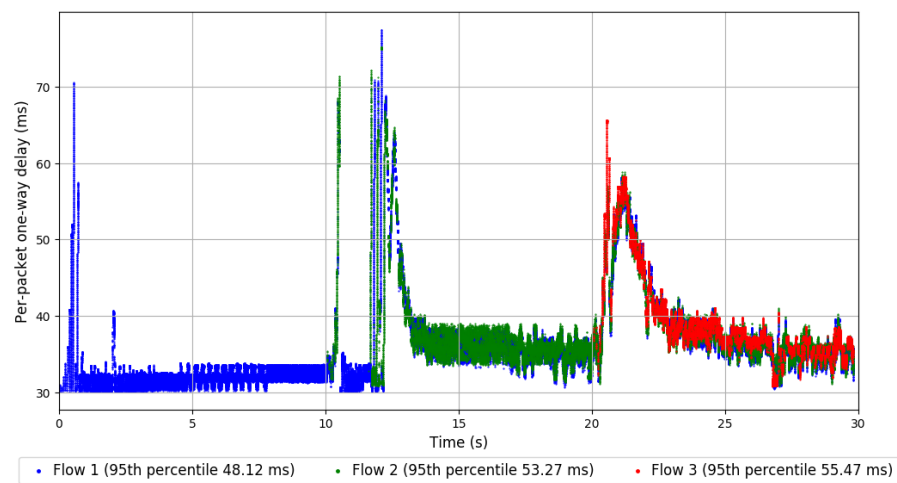
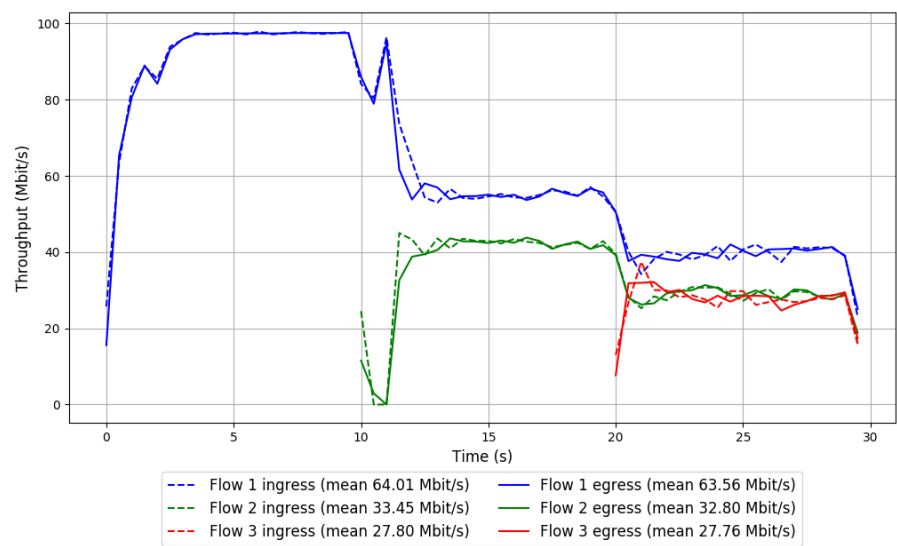
-- Flow 3:

Average throughput: 27.76 Mbit/s

95th percentile per-packet one-way delay: 55.465 ms

Loss rate: 0.16%

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



Run 5: Statistics of Indigo-1-32

Start at: 2018-04-24 22:52:07

End at: 2018-04-24 22:52:37

Local clock offset: 0.579 ms

Remote clock offset: -0.44 ms

# Below is generated by plot.py at 2018-04-25 02:06:19

# Datalink statistics

-- Total of 3 flows:

Average throughput: 94.45 Mbit/s

95th percentile per-packet one-way delay: 51.523 ms

Loss rate: 0.53%

-- Flow 1:

Average throughput: 62.65 Mbit/s

95th percentile per-packet one-way delay: 49.023 ms

Loss rate: 0.44%

-- Flow 2:

Average throughput: 33.97 Mbit/s

95th percentile per-packet one-way delay: 54.600 ms

Loss rate: 0.98%

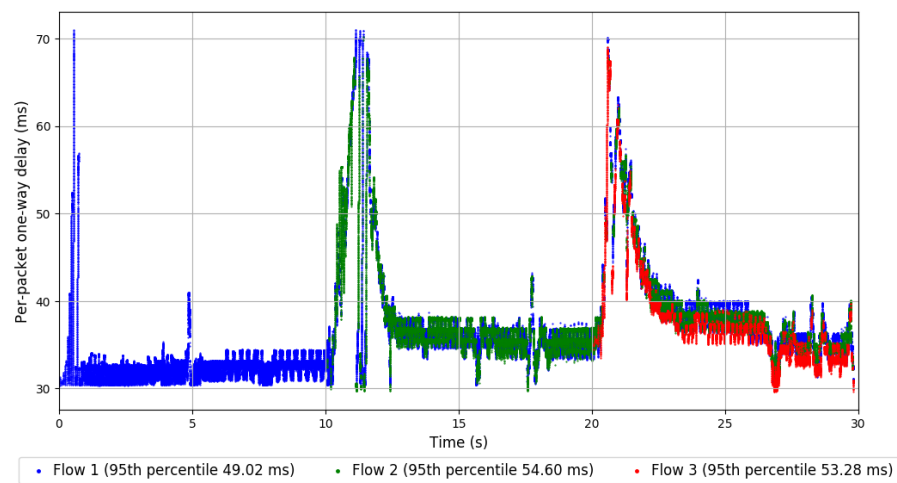
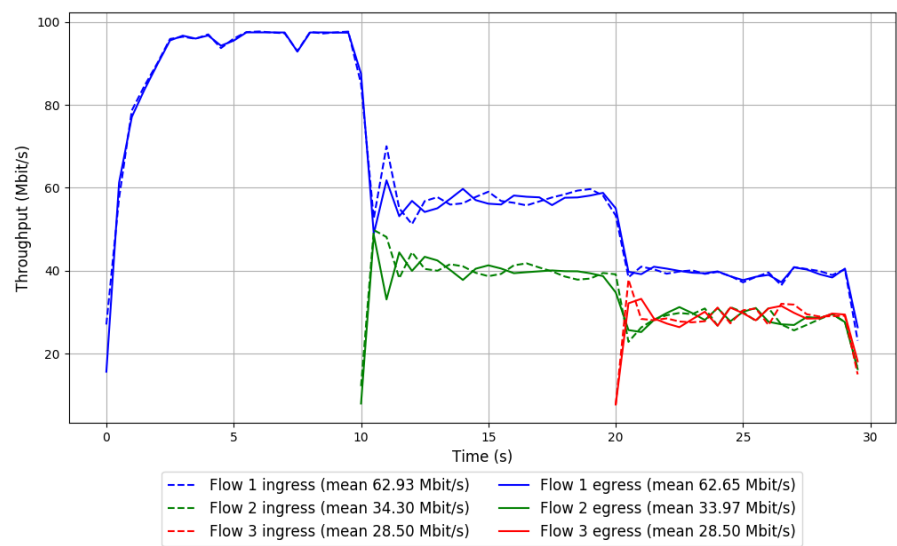
-- Flow 3:

Average throughput: 28.50 Mbit/s

95th percentile per-packet one-way delay: 53.284 ms

Loss rate: 0.02%

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



Run 6: Statistics of Indigo-1-32

Start at: 2018-04-24 23:17:17

End at: 2018-04-24 23:17:47

Local clock offset: 0.759 ms

Remote clock offset: 0.319 ms

# Below is generated by plot.py at 2018-04-25 02:06:19

# Datalink statistics

-- Total of 3 flows:

Average throughput: 93.29 Mbit/s

95th percentile per-packet one-way delay: 50.120 ms

Loss rate: 0.85%

-- Flow 1:

Average throughput: 61.61 Mbit/s

95th percentile per-packet one-way delay: 46.240 ms

Loss rate: 0.76%

-- Flow 2:

Average throughput: 32.85 Mbit/s

95th percentile per-packet one-way delay: 52.508 ms

Loss rate: 0.85%

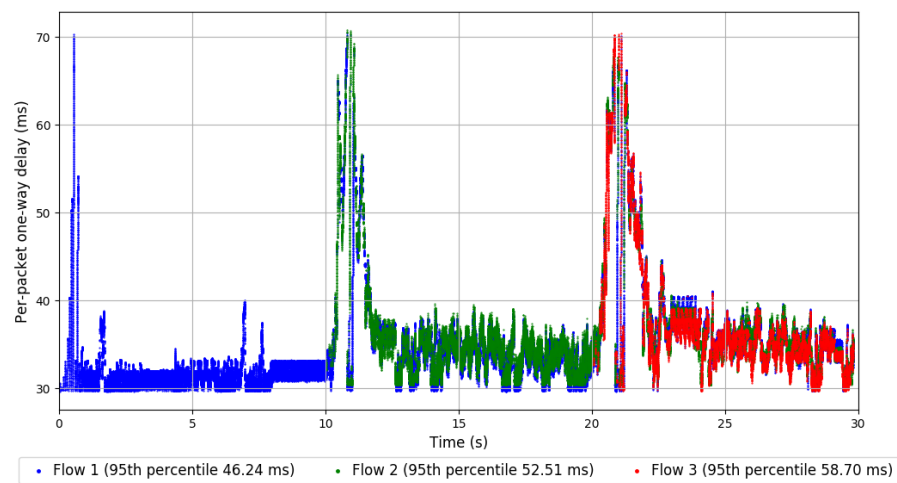
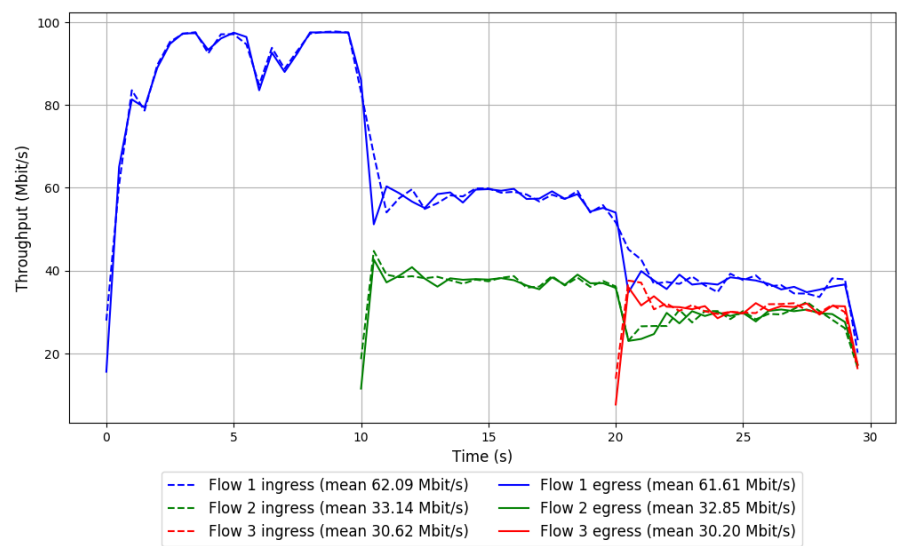
-- Flow 3:

Average throughput: 30.20 Mbit/s

95th percentile per-packet one-way delay: 58.700 ms

Loss rate: 1.37%

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





Run 7: Statistics of Indigo-1-32

Start at: 2018-04-24 23:42:32

End at: 2018-04-24 23:43:02

Local clock offset: 0.769 ms

Remote clock offset: 0.347 ms

# Below is generated by plot.py at 2018-04-25 02:06:32

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.42 Mbit/s

95th percentile per-packet one-way delay: 51.510 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 66.07 Mbit/s

95th percentile per-packet one-way delay: 49.057 ms

Loss rate: 0.11%

-- Flow 2:

Average throughput: 29.97 Mbit/s

95th percentile per-packet one-way delay: 52.617 ms

Loss rate: 0.05%

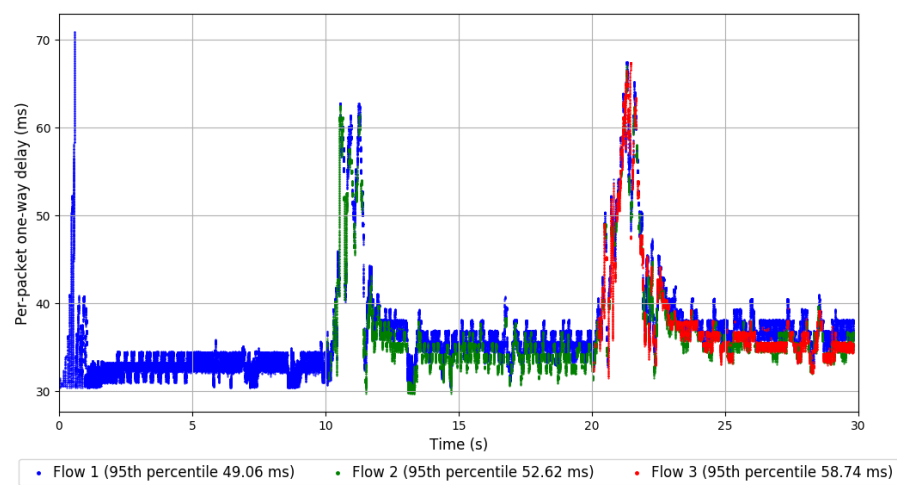
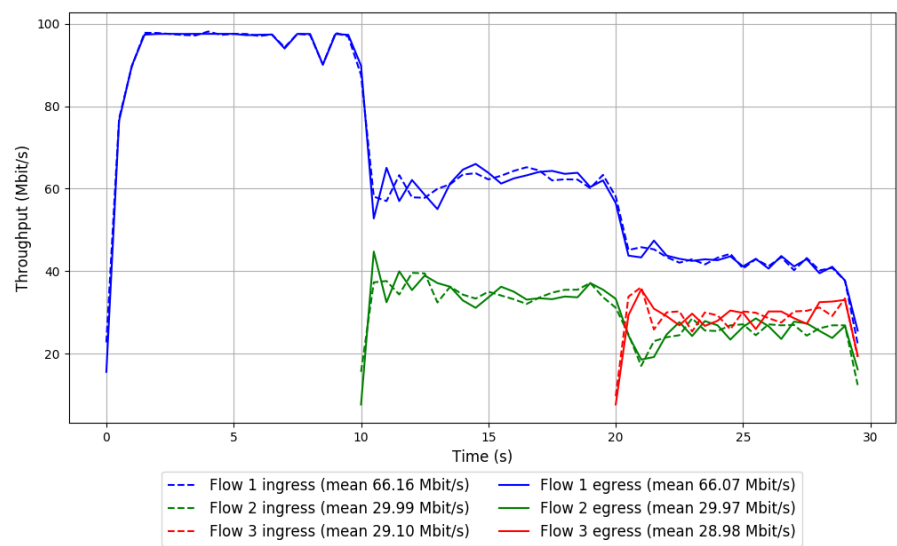
-- Flow 3:

Average throughput: 28.98 Mbit/s

95th percentile per-packet one-way delay: 58.740 ms

Loss rate: 0.36%

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



Run 8: Statistics of Indigo-1-32

Start at: 2018-04-25 00:07:46

End at: 2018-04-25 00:08:16

Local clock offset: 0.918 ms

Remote clock offset: 0.976 ms

# Below is generated by plot.py at 2018-04-25 02:07:13

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.45 Mbit/s

95th percentile per-packet one-way delay: 44.278 ms

Loss rate: 0.66%

-- Flow 1:

Average throughput: 73.21 Mbit/s

95th percentile per-packet one-way delay: 42.937 ms

Loss rate: 0.62%

-- Flow 2:

Average throughput: 15.79 Mbit/s

95th percentile per-packet one-way delay: 43.509 ms

Loss rate: 0.53%

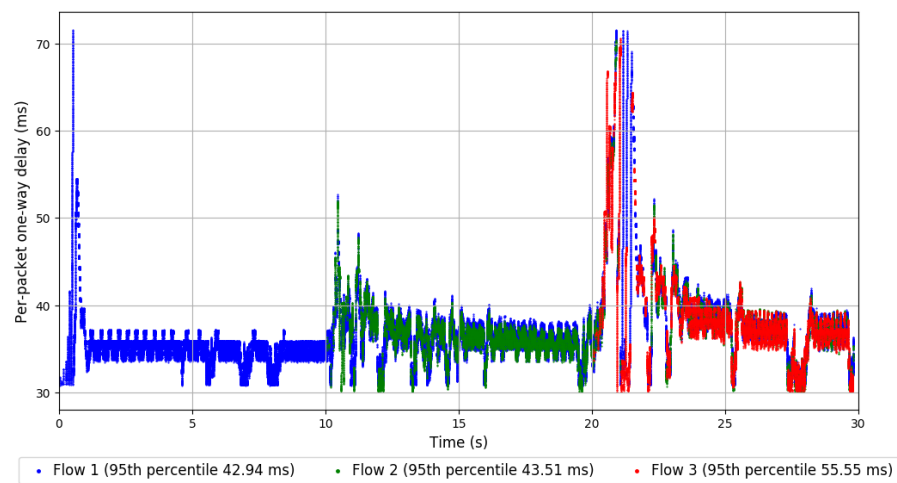
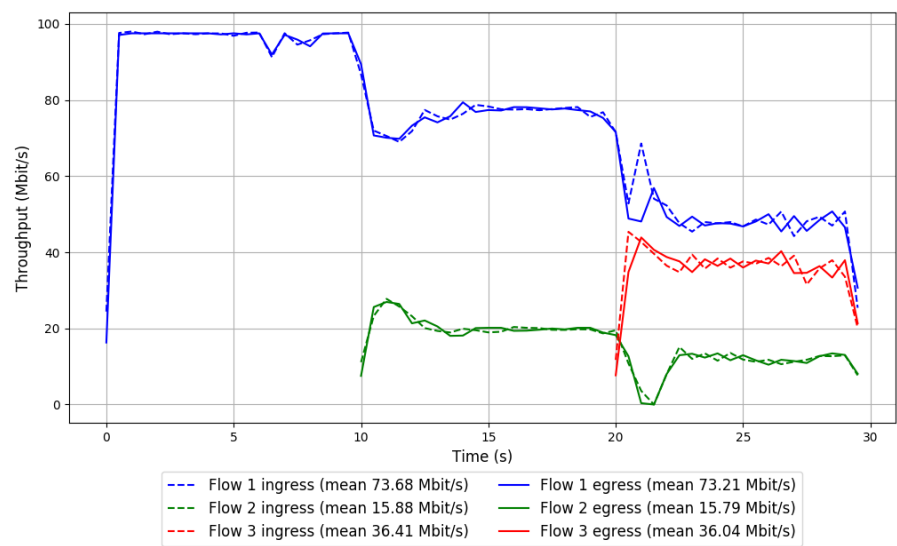
-- Flow 3:

Average throughput: 36.04 Mbit/s

95th percentile per-packet one-way delay: 55.550 ms

Loss rate: 1.03%

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

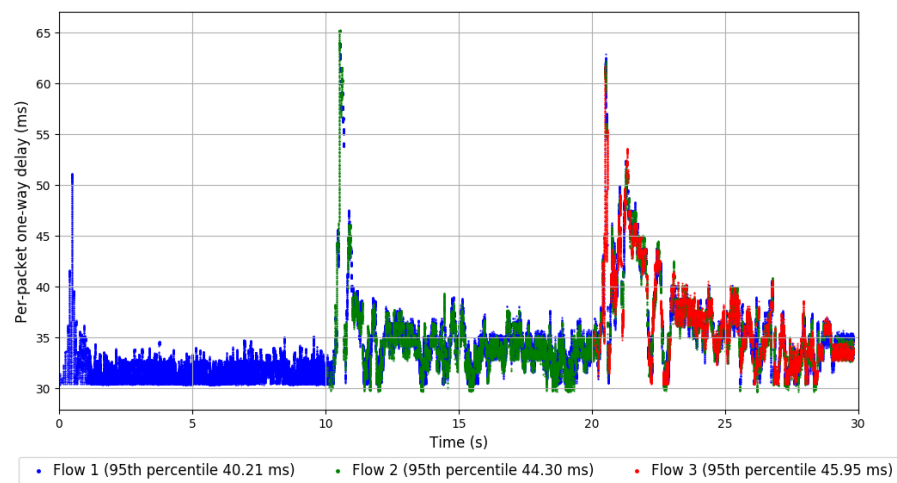
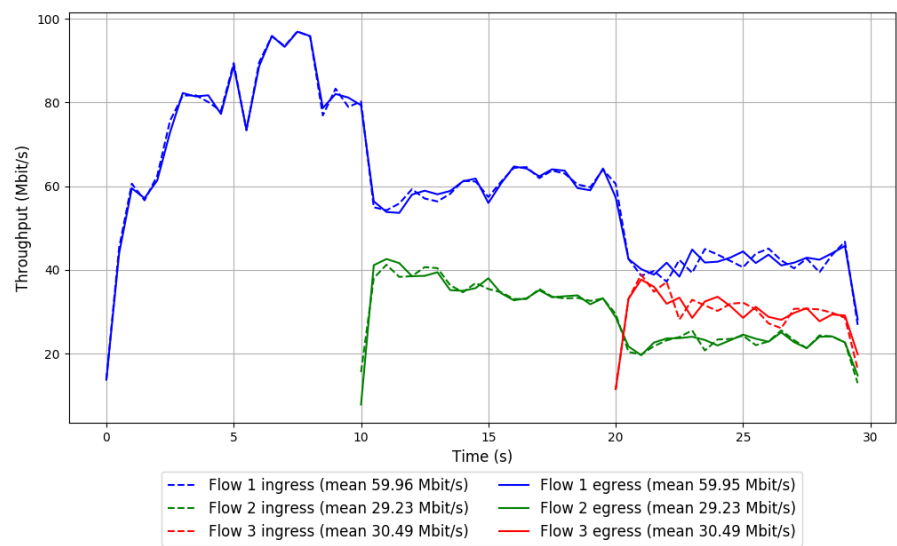


Run 9: Statistics of Indigo-1-32

Start at: 2018-04-25 00:33:41  
End at: 2018-04-25 00:34:11  
Local clock offset: 1.03 ms  
Remote clock offset: -0.515 ms

# Below is generated by plot.py at 2018-04-25 02:07:13  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 89.27 Mbit/s  
95th percentile per-packet one-way delay: 43.180 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 59.95 Mbit/s  
95th percentile per-packet one-way delay: 40.209 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 29.23 Mbit/s  
95th percentile per-packet one-way delay: 44.300 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 30.49 Mbit/s  
95th percentile per-packet one-way delay: 45.949 ms  
Loss rate: 0.00%

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

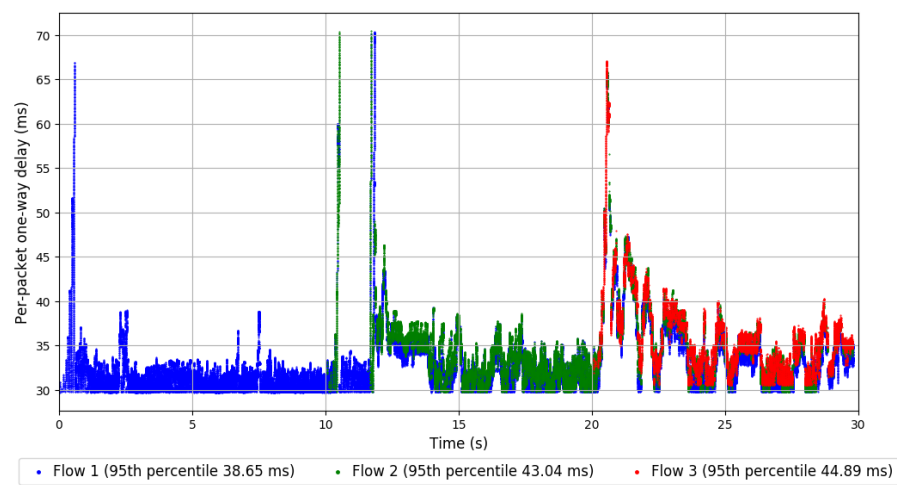
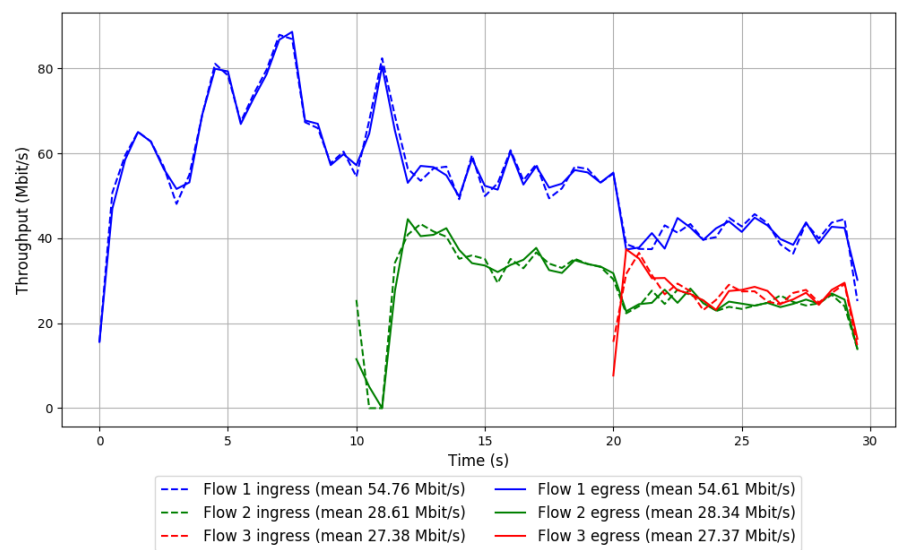


Run 10: Statistics of Indigo-1-32

Start at: 2018-04-25 01:00:41  
End at: 2018-04-25 01:01:11  
Local clock offset: 1.1 ms  
Remote clock offset: -3.784 ms

# Below is generated by plot.py at 2018-04-25 02:07:19  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 82.30 Mbit/s  
95th percentile per-packet one-way delay: 41.199 ms  
Loss rate: 0.39%  
-- Flow 1:  
Average throughput: 54.61 Mbit/s  
95th percentile per-packet one-way delay: 38.648 ms  
Loss rate: 0.27%  
-- Flow 2:  
Average throughput: 28.34 Mbit/s  
95th percentile per-packet one-way delay: 43.044 ms  
Loss rate: 0.92%  
-- Flow 3:  
Average throughput: 27.37 Mbit/s  
95th percentile per-packet one-way delay: 44.894 ms  
Loss rate: 0.00%

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



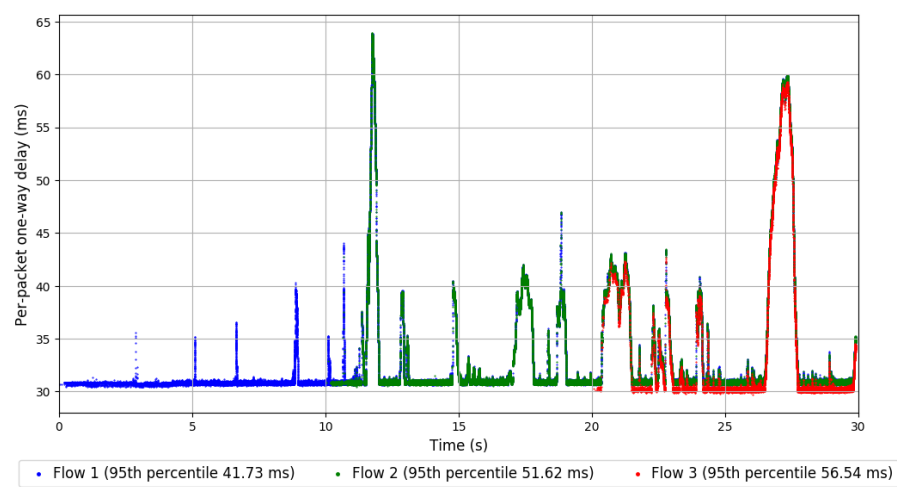
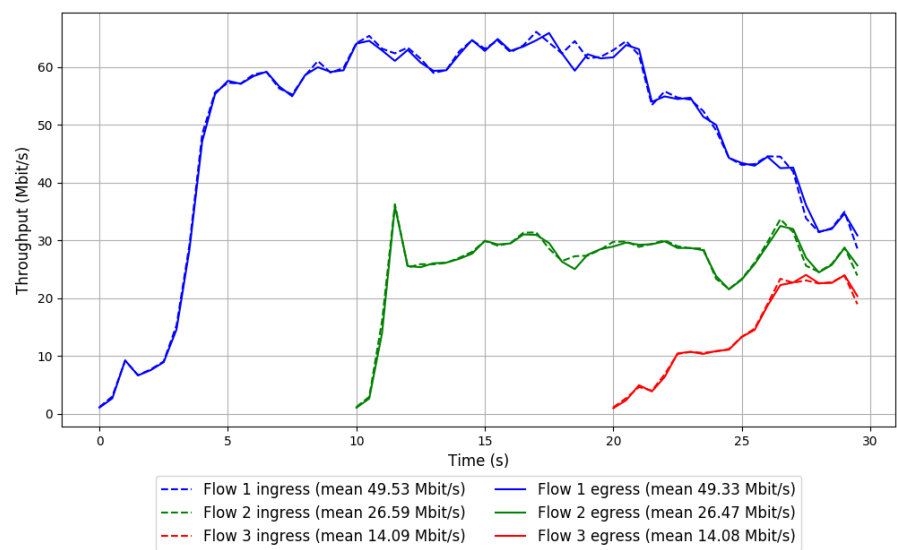


Run 1: Statistics of PCC-Vivace

Start at: 2018-04-24 21:13:35  
End at: 2018-04-24 21:14:05  
Local clock offset: 1.159 ms  
Remote clock offset: -0.048 ms

# Below is generated by plot.py at 2018-04-25 02:07:27  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 71.57 Mbit/s  
95th percentile per-packet one-way delay: 45.675 ms  
Loss rate: 0.39%  
-- Flow 1:  
Average throughput: 49.33 Mbit/s  
95th percentile per-packet one-way delay: 41.731 ms  
Loss rate: 0.39%  
-- Flow 2:  
Average throughput: 26.47 Mbit/s  
95th percentile per-packet one-way delay: 51.617 ms  
Loss rate: 0.47%  
-- Flow 3:  
Average throughput: 14.08 Mbit/s  
95th percentile per-packet one-way delay: 56.537 ms  
Loss rate: 0.05%

Run 1: Report of PCC-Vivace — Data Link

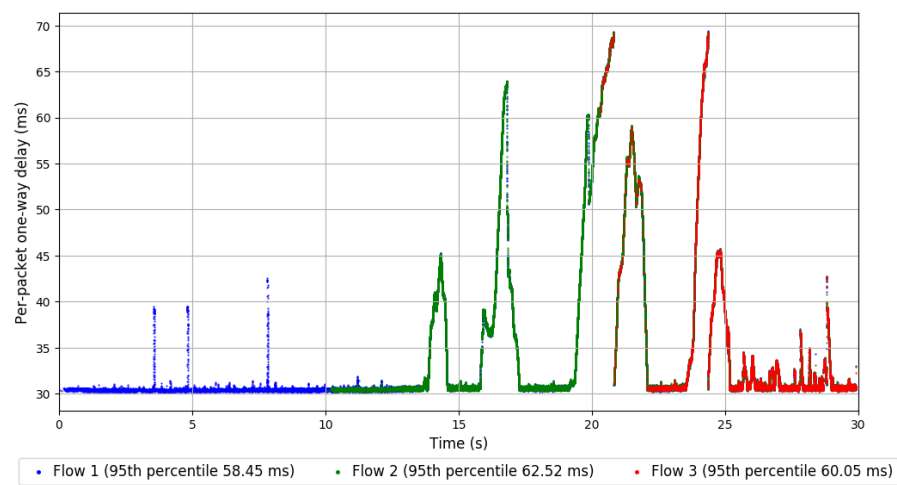
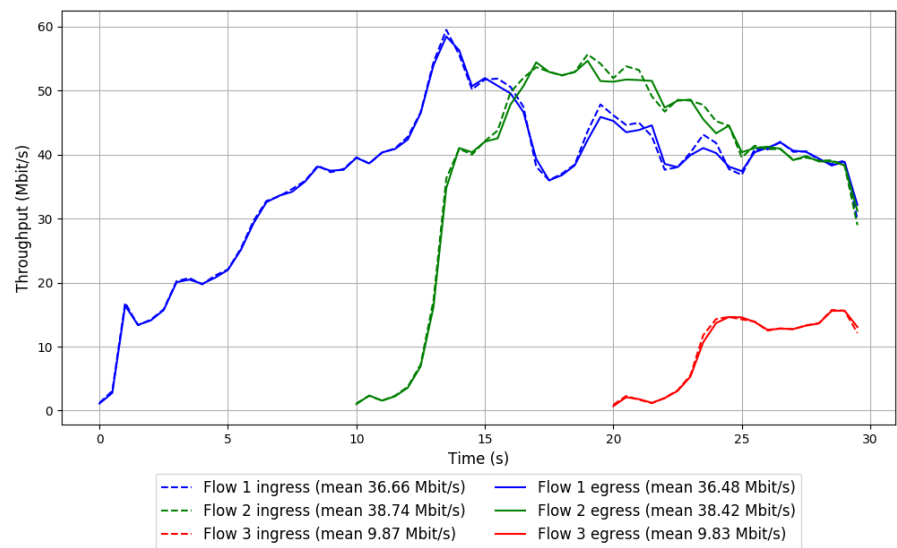


Run 2: Statistics of PCC-Vivace

Start at: 2018-04-24 21:38:50  
End at: 2018-04-24 21:39:20  
Local clock offset: 1.022 ms  
Remote clock offset: -0.561 ms

# Below is generated by plot.py at 2018-04-25 02:07:27  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 65.25 Mbit/s  
95th percentile per-packet one-way delay: 60.364 ms  
Loss rate: 0.63%  
-- Flow 1:  
Average throughput: 36.48 Mbit/s  
95th percentile per-packet one-way delay: 58.455 ms  
Loss rate: 0.51%  
-- Flow 2:  
Average throughput: 38.42 Mbit/s  
95th percentile per-packet one-way delay: 62.525 ms  
Loss rate: 0.81%  
-- Flow 3:  
Average throughput: 9.83 Mbit/s  
95th percentile per-packet one-way delay: 60.055 ms  
Loss rate: 0.64%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2018-04-24 22:04:14

End at: 2018-04-24 22:04:44

Local clock offset: 0.321 ms

Remote clock offset: 0.219 ms

# Below is generated by plot.py at 2018-04-25 02:07:27

# Datalink statistics

-- Total of 3 flows:

Average throughput: 59.32 Mbit/s

95th percentile per-packet one-way delay: 53.817 ms

Loss rate: 0.20%

-- Flow 1:

Average throughput: 33.55 Mbit/s

95th percentile per-packet one-way delay: 43.551 ms

Loss rate: 0.19%

-- Flow 2:

Average throughput: 37.37 Mbit/s

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

Loss rate: 0.21%

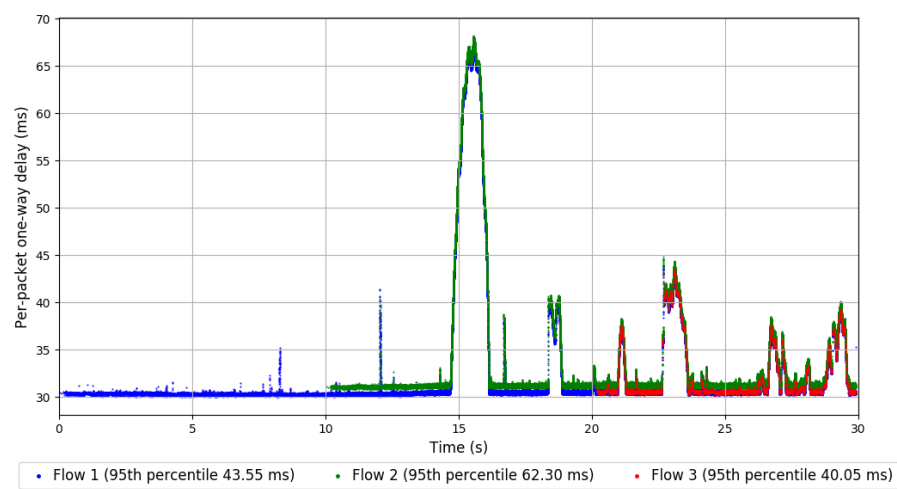
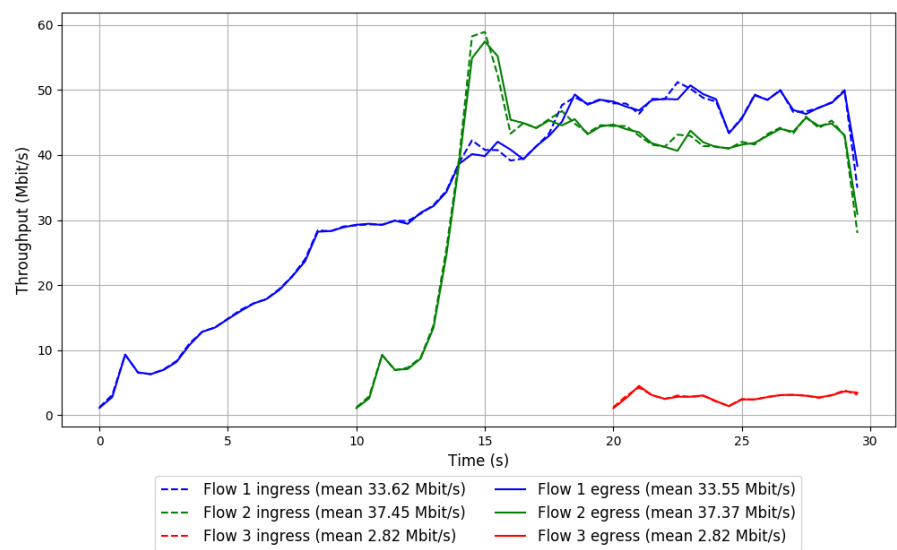
-- Flow 3:

Average throughput: 2.82 Mbit/s

95th percentile per-packet one-way delay: 40.055 ms

Loss rate: 0.17%

Run 3: Report of PCC-Vivace — Data Link

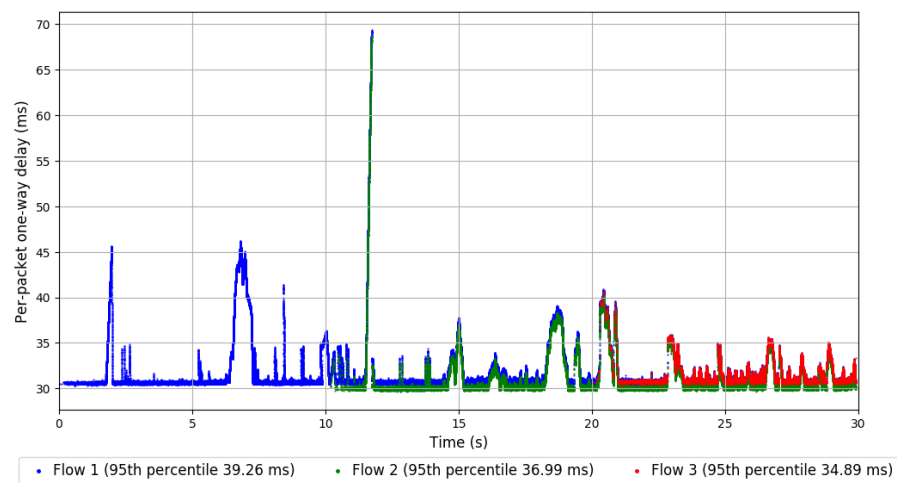
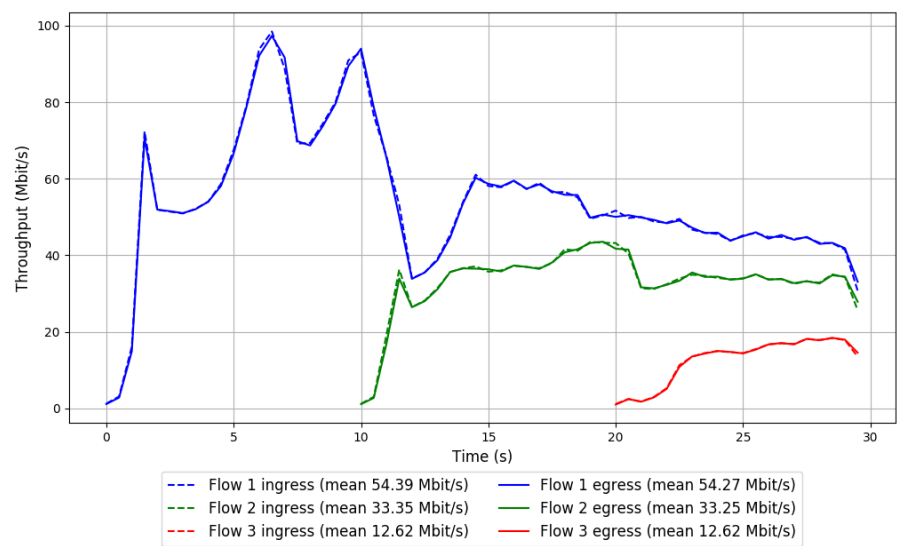


Run 4: Statistics of PCC-Vivace

Start at: 2018-04-24 22:28:56  
End at: 2018-04-24 22:29:26  
Local clock offset: 0.243 ms  
Remote clock offset: -0.051 ms

# Below is generated by plot.py at 2018-04-25 02:07:41  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 80.53 Mbit/s  
95th percentile per-packet one-way delay: 38.182 ms  
Loss rate: 0.24%  
-- Flow 1:  
Average throughput: 54.27 Mbit/s  
95th percentile per-packet one-way delay: 39.262 ms  
Loss rate: 0.22%  
-- Flow 2:  
Average throughput: 33.25 Mbit/s  
95th percentile per-packet one-way delay: 36.991 ms  
Loss rate: 0.33%  
-- Flow 3:  
Average throughput: 12.62 Mbit/s  
95th percentile per-packet one-way delay: 34.890 ms  
Loss rate: 0.01%

Run 4: Report of PCC-Vivace — Data Link



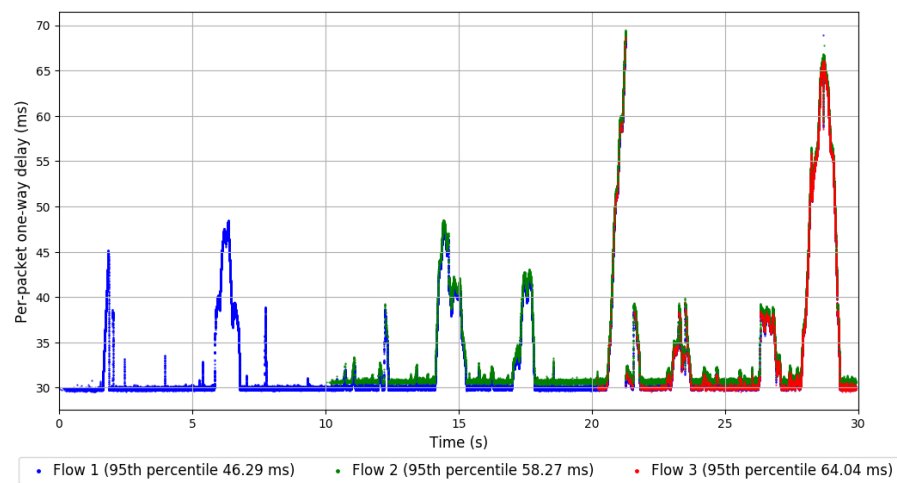
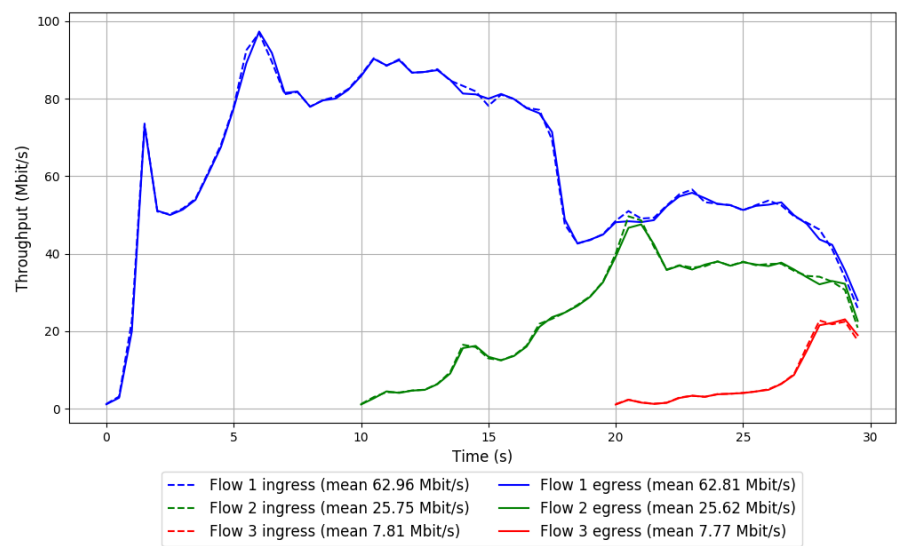


Run 5: Statistics of PCC-Vivace

Start at: 2018-04-24 22:53:37  
End at: 2018-04-24 22:54:07  
Local clock offset: 0.594 ms  
Remote clock offset: -0.433 ms

# Below is generated by plot.py at 2018-04-25 02:07:51  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 82.40 Mbit/s  
95th percentile per-packet one-way delay: 51.242 ms  
Loss rate: 0.31%  
-- Flow 1:  
Average throughput: 62.81 Mbit/s  
95th percentile per-packet one-way delay: 46.291 ms  
Loss rate: 0.24%  
-- Flow 2:  
Average throughput: 25.62 Mbit/s  
95th percentile per-packet one-way delay: 58.268 ms  
Loss rate: 0.53%  
-- Flow 3:  
Average throughput: 7.77 Mbit/s  
95th percentile per-packet one-way delay: 64.039 ms  
Loss rate: 0.51%

Run 5: Report of PCC-Vivace — Data Link



Run 6: Statistics of PCC-Vivace

Start at: 2018-04-24 23:18:48

End at: 2018-04-24 23:19:18

Local clock offset: 0.769 ms

Remote clock offset: 0.343 ms

# Below is generated by plot.py at 2018-04-25 02:08:16

# Datalink statistics

-- Total of 3 flows:

Average throughput: 78.01 Mbit/s

95th percentile per-packet one-way delay: 43.636 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 62.15 Mbit/s

95th percentile per-packet one-way delay: 44.236 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 18.81 Mbit/s

95th percentile per-packet one-way delay: 35.422 ms

Loss rate: 0.00%

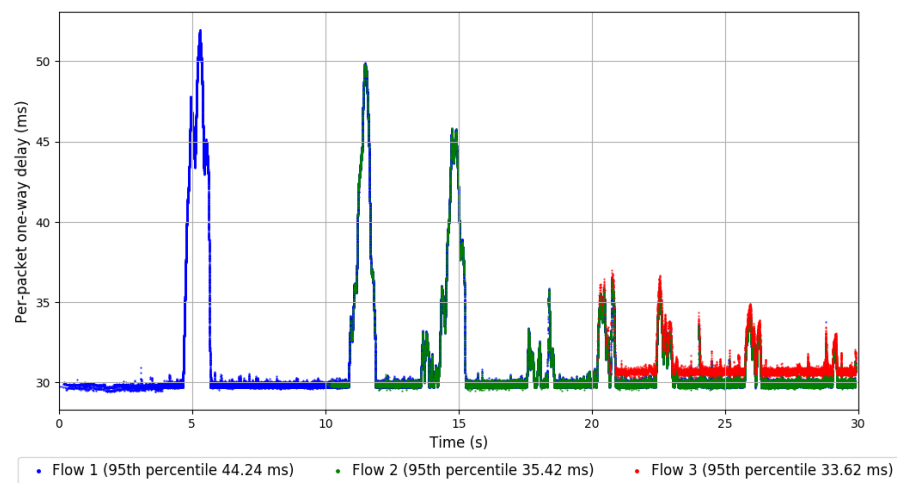
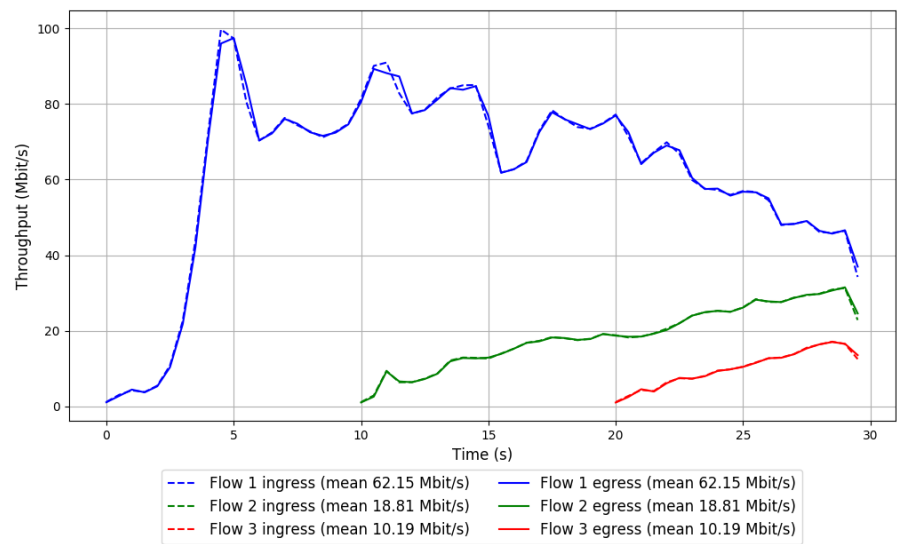
-- Flow 3:

Average throughput: 10.19 Mbit/s

95th percentile per-packet one-way delay: 33.619 ms

Loss rate: 0.00%

Run 6: Report of PCC-Vivace — Data Link



Run 7: Statistics of PCC-Vivace

Start at: 2018-04-24 23:44:00

End at: 2018-04-24 23:44:30

Local clock offset: 0.773 ms

Remote clock offset: 0.793 ms

# Below is generated by plot.py at 2018-04-25 02:08:18

# Datalink statistics

-- Total of 3 flows:

Average throughput: 83.89 Mbit/s

95th percentile per-packet one-way delay: 54.398 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 68.68 Mbit/s

95th percentile per-packet one-way delay: 47.592 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 18.90 Mbit/s

95th percentile per-packet one-way delay: 56.571 ms

Loss rate: 0.13%

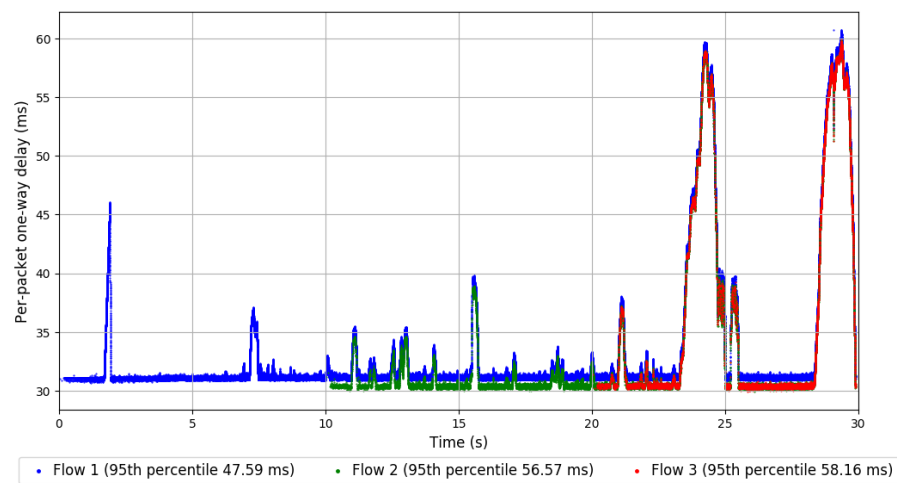
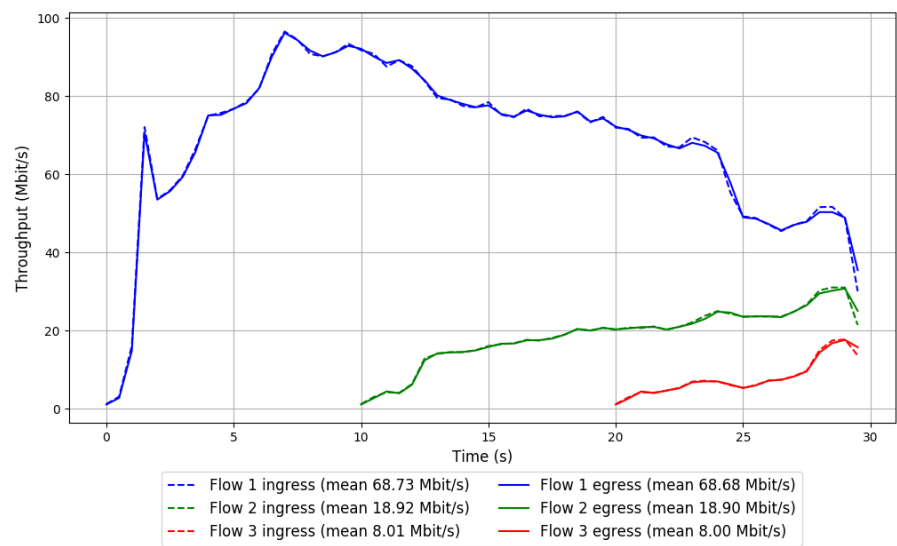
-- Flow 3:

Average throughput: 8.00 Mbit/s

95th percentile per-packet one-way delay: 58.165 ms

Loss rate: 0.13%

Run 7: Report of PCC-Vivace — Data Link



Run 8: Statistics of PCC-Vivace

Start at: 2018-04-25 00:09:22

End at: 2018-04-25 00:09:52

Local clock offset: 0.954 ms

Remote clock offset: 0.997 ms

# Below is generated by plot.py at 2018-04-25 02:08:18

# Datalink statistics

-- Total of 3 flows:

Average throughput: 69.45 Mbit/s

95th percentile per-packet one-way delay: 37.429 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 45.59 Mbit/s

95th percentile per-packet one-way delay: 36.714 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 32.65 Mbit/s

95th percentile per-packet one-way delay: 39.689 ms

Loss rate: 0.01%

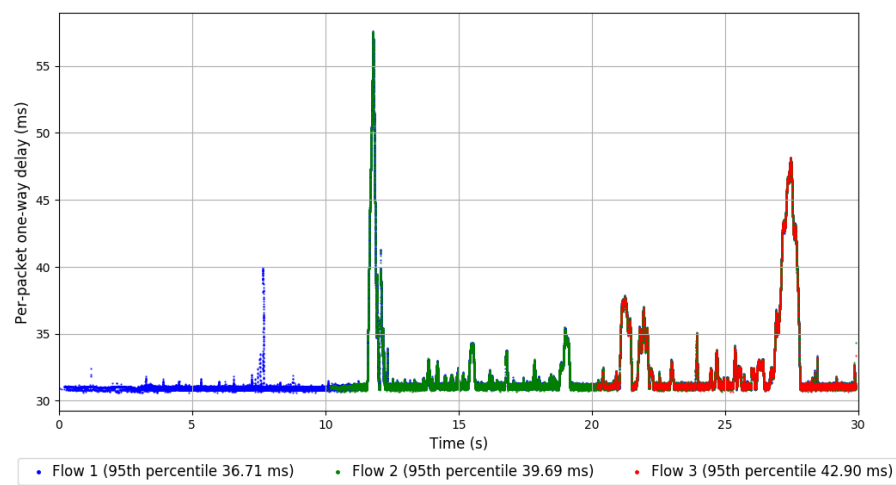
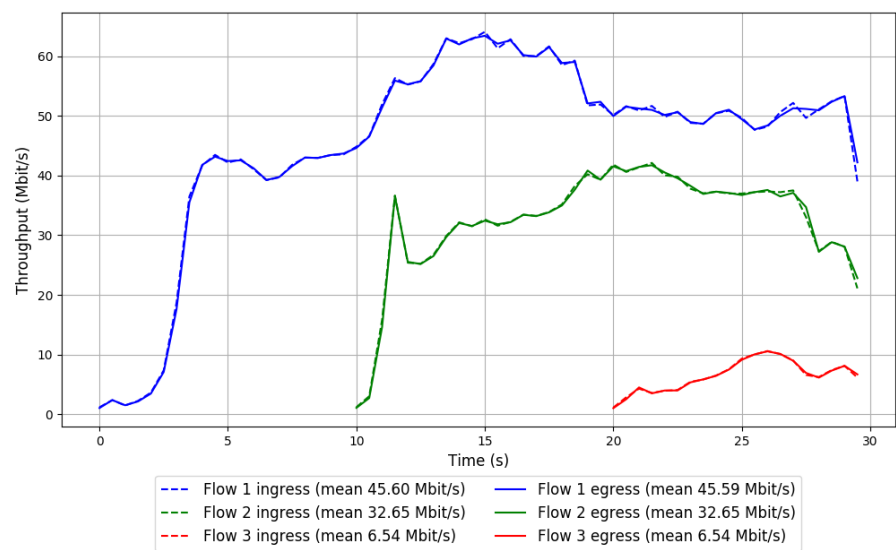
-- Flow 3:

Average throughput: 6.54 Mbit/s

95th percentile per-packet one-way delay: 42.900 ms

Loss rate: 0.00%

Run 8: Report of PCC-Vivace — Data Link



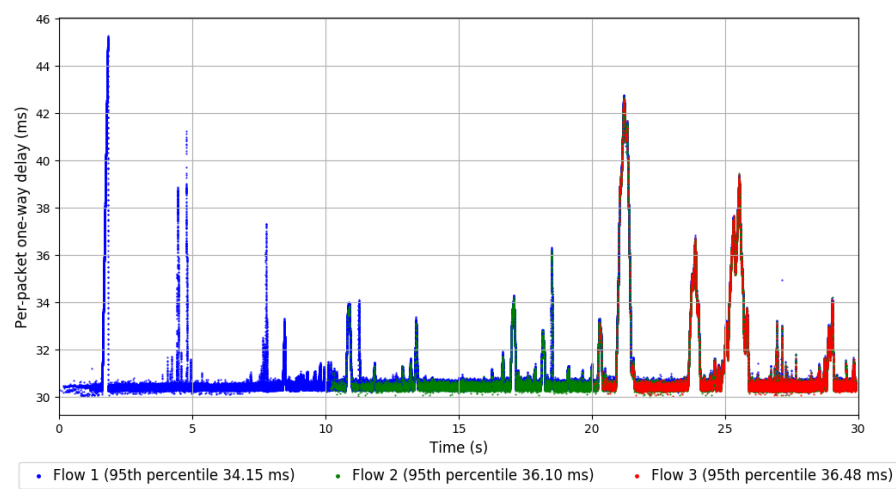
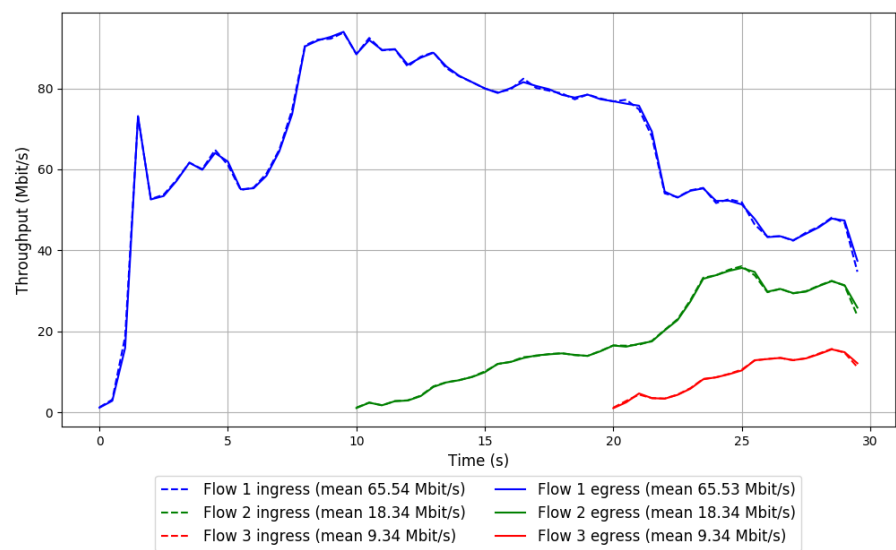


Run 9: Statistics of PCC-Vivace

Start at: 2018-04-25 00:35:24  
End at: 2018-04-25 00:35:54  
Local clock offset: 1.004 ms  
Remote clock offset: -0.008 ms

# Below is generated by plot.py at 2018-04-25 02:08:18  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 80.81 Mbit/s  
95th percentile per-packet one-way delay: 34.964 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 65.53 Mbit/s  
95th percentile per-packet one-way delay: 34.149 ms  
Loss rate: 0.01%  
-- Flow 2:  
Average throughput: 18.34 Mbit/s  
95th percentile per-packet one-way delay: 36.097 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 9.34 Mbit/s  
95th percentile per-packet one-way delay: 36.483 ms  
Loss rate: 0.00%

Run 9: Report of PCC-Vivace — Data Link

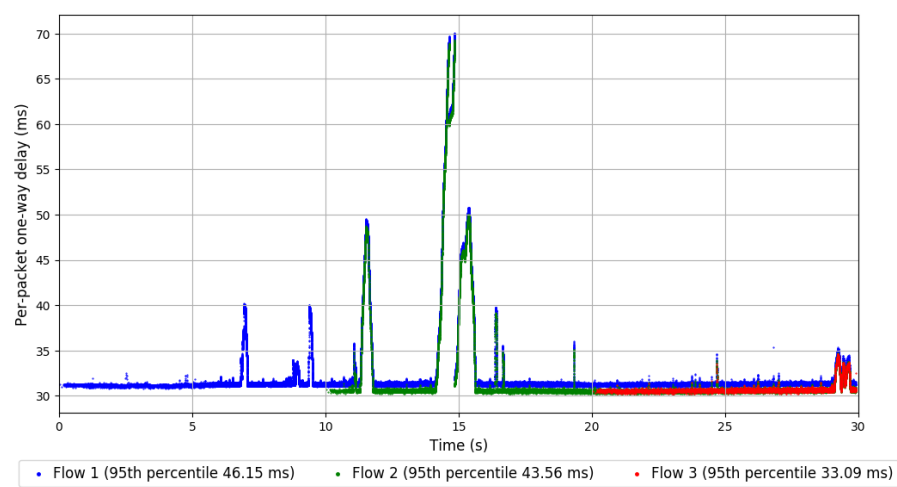
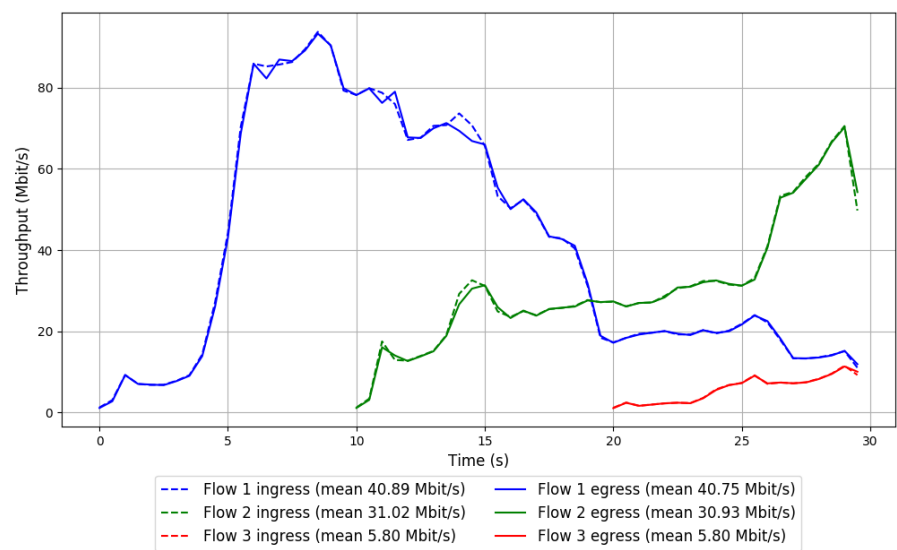


Run 10: Statistics of PCC-Vivace

Start at: 2018-04-25 01:02:18  
End at: 2018-04-25 01:02:48  
Local clock offset: 1.076 ms  
Remote clock offset: -3.393 ms

# Below is generated by plot.py at 2018-04-25 02:08:18  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 63.23 Mbit/s  
95th percentile per-packet one-way delay: 45.323 ms  
Loss rate: 0.31%  
-- Flow 1:  
Average throughput: 40.75 Mbit/s  
95th percentile per-packet one-way delay: 46.152 ms  
Loss rate: 0.35%  
-- Flow 2:  
Average throughput: 30.93 Mbit/s  
95th percentile per-packet one-way delay: 43.560 ms  
Loss rate: 0.27%  
-- Flow 3:  
Average throughput: 5.80 Mbit/s  
95th percentile per-packet one-way delay: 33.091 ms  
Loss rate: 0.00%

Run 10: Report of PCC-Vivace — Data Link



Run 1: Statistics of PCC-Expr

Start at: 2018-04-24 21:07:51  
End at: 2018-04-24 21:08:21  
Local clock offset: 1.171 ms  
Remote clock offset: -0.123 ms

Run 1: Report of PCC-Expr — Data Link

Figure is missing

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Run 2: Statistics of PCC-Expr

Start at: 2018-04-24 21:33:00

End at: 2018-04-24 21:33:31

Local clock offset: 1.257 ms

Remote clock offset: -0.457 ms

Run 2: Report of PCC-Expr — Data Link

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Figure is missing



Run 3: Statistics of PCC-Expr

Start at: 2018-04-24 21:58:13

End at: 2018-04-24 21:58:43

Local clock offset: 0.416 ms

Remote clock offset: -0.435 ms

Run 3: Report of PCC-Expr — Data Link

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Figure is missing

Run 4: Statistics of PCC-Expr

Start at: 2018-04-24 22:23:20

End at: 2018-04-24 22:23:50

Local clock offset: 0.326 ms

Remote clock offset: 0.042 ms

Run 4: Report of PCC-Expr — Data Link

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Figure is missing

Run 5: Statistics of PCC-Expr

Start at: 2018-04-24 22:47:46

End at: 2018-04-24 22:48:16

Local clock offset: 0.365 ms

Remote clock offset: -0.403 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 23:12:51

End at: 2018-04-24 23:13:21

Local clock offset: 0.681 ms

Remote clock offset: 0.16 ms

Run 6: Report of PCC-Expr — Data Link

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Figure is missing



Run 7: Statistics of PCC-Expr

Start at: 2018-04-24 23:38:11

End at: 2018-04-24 23:38:41

Local clock offset: 0.684 ms

Remote clock offset: 0.532 ms

Run 7: Report of PCC-Expr — Data Link

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Figure is missing

Run 8: Statistics of PCC-Expr

Start at: 2018-04-25 00:03:19

End at: 2018-04-25 00:03:49

Local clock offset: 0.891 ms

Remote clock offset: 0.876 ms

Run 8: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 9: Statistics of PCC-Expr

Start at: 2018-04-25 00:29:03

End at: 2018-04-25 00:29:33

Local clock offset: 1.002 ms

Remote clock offset: -0.427 ms

Run 9: Report of PCC-Expr — Data Link

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Run 10: Statistics of PCC-Expr

Start at: 2018-04-25 00:56:07

End at: 2018-04-25 00:56:37

Local clock offset: 1.064 ms

Remote clock offset: -2.631 ms

Run 10: Report of PCC-Expr — Data Link

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Figure is missing