

Pantheon Report

Generated at 2018-04-17 21:20:13 (UTC).

Data path: AWS Brazil 2 Ethernet (*local*) → Colombia 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**).

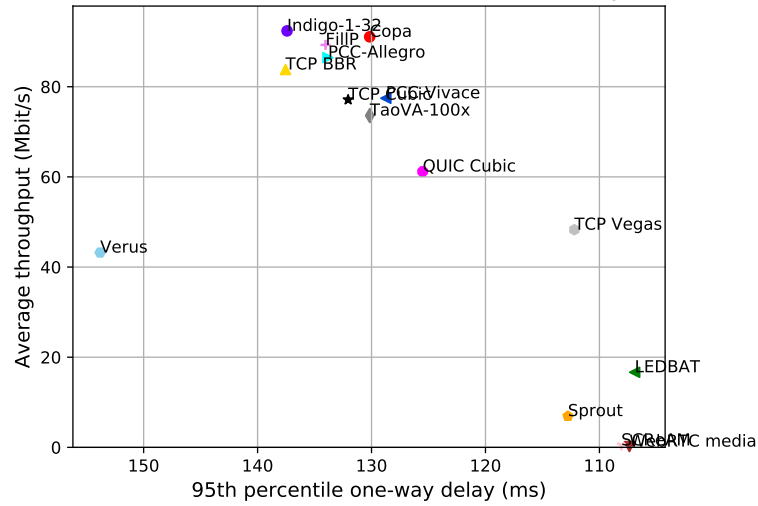
NTP offsets were measured against **gps.ntp.br** and have been applied to correct the timestamps in logs.

Git summary:

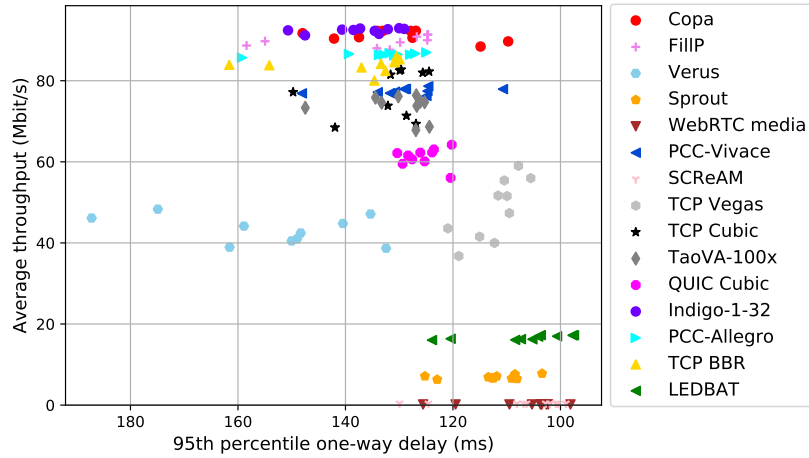
```
branch: master @ b3d6e7098641364fd3a292656a51aa81e316d0b4
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ 11f8c46a2bf1dc797253db7e8ca04076272b2a44
third_party/genericCC @ d223989828276fa83a807da6e0341dc0c7b89aec
third_party/indigo @ a9b2060d39e4da2e8987e893e3eca2a6c7cd0ab9
third_party/indigo-1-layer-128-unit @ 3ae9e4ef4230db7484501f82ce8b377695f2f66d
third_party/indigo-1-layer-32-unit @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/indigo-1-layer-32-unit-no-calib @ 1f3a7f75b41135ed5b540c0fd3505939528e2a5f
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
  M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ fb1053193c2861da659ba9013db26744ccfcf993
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
  M receiver/src/buffer.h
  M receiver/src/core.cpp
  M sender/src/buffer.h
  M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quick @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eaaeb30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
  M src/examples/cellsim.cc
  M src/examples/sproutbt2.cc
  M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/vivace @ 7a4ba531e75b4a6f66f5c4580192120401784ce3
```

third_party/webrtc @ f271183af822eee5d0031620f4bebf38aedc5581

test from AWS Brazil 2 Ethernet to Colombia Ethernet, 10 runs of 30s each per scheme
3 flows with 10s interval between flows (mean of all runs by scheme)



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



Run 1: Statistics of TCP BBR

Start at: 2018-04-17 17:03:38

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

Local clock offset: -6.193 ms

Remote clock offset: 5.672 ms

Below is generated by plot.py at 2018-04-17 20:56:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 80.04 Mbit/s

95th percentile per-packet one-way delay: 134.631 ms

Loss rate: 7.70%

-- Flow 1:

Average throughput: 50.93 Mbit/s

95th percentile per-packet one-way delay: 129.656 ms

Loss rate: 6.10%

-- Flow 2:

Average throughput: 27.83 Mbit/s

95th percentile per-packet one-way delay: 134.921 ms

Loss rate: 9.99%

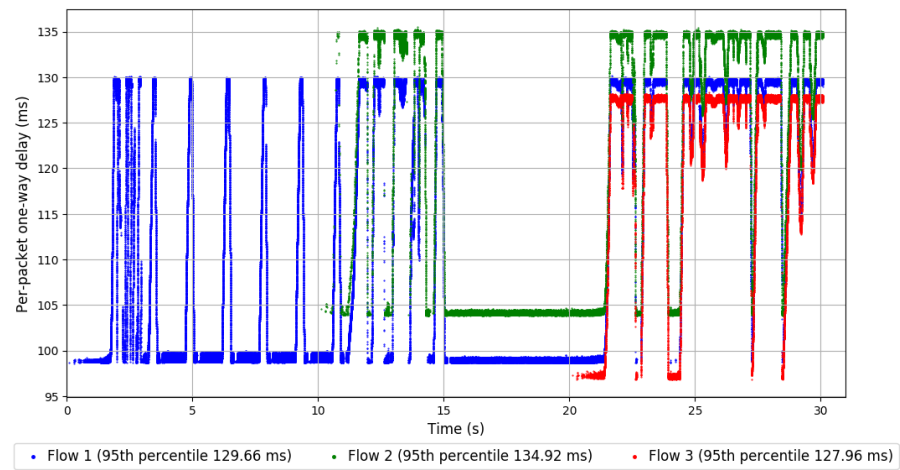
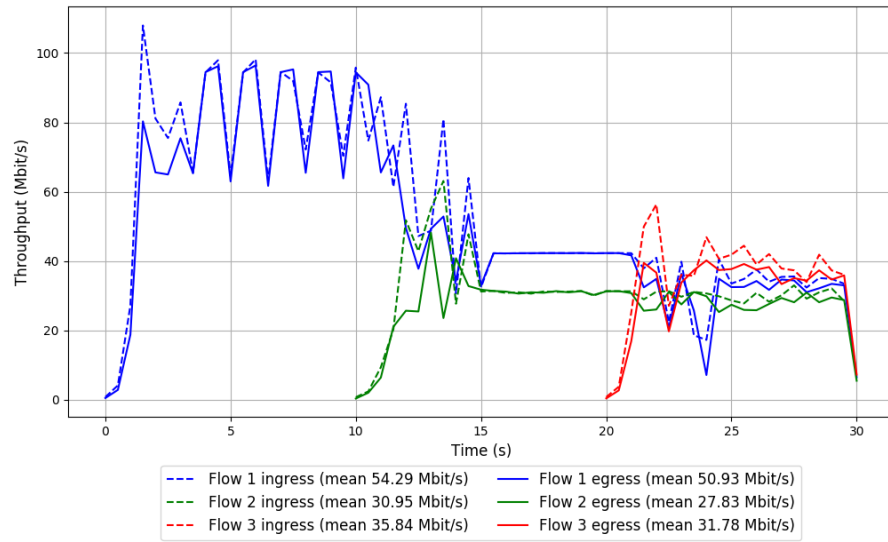
-- Flow 3:

Average throughput: 31.78 Mbit/s

95th percentile per-packet one-way delay: 127.960 ms

Loss rate: 11.06%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-04-17 17:25:57

End at: 2018-04-17 17:26:27

Local clock offset: -6.61 ms

Remote clock offset: 5.29 ms

Below is generated by plot.py at 2018-04-17 20:56:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 83.82 Mbit/s

95th percentile per-packet one-way delay: 154.161 ms

Loss rate: 9.32%

-- Flow 1:

Average throughput: 55.91 Mbit/s

95th percentile per-packet one-way delay: 126.854 ms

Loss rate: 7.35%

-- Flow 2:

Average throughput: 31.12 Mbit/s

95th percentile per-packet one-way delay: 154.375 ms

Loss rate: 12.50%

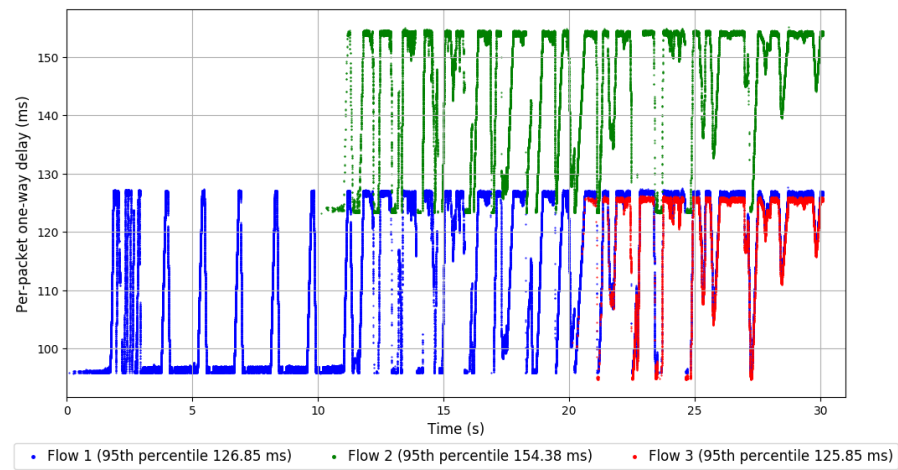
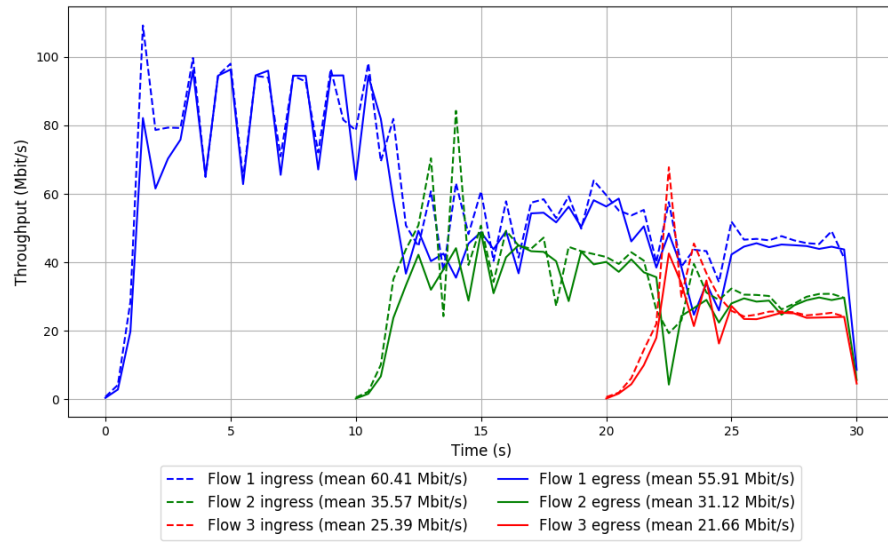
-- Flow 3:

Average throughput: 21.66 Mbit/s

95th percentile per-packet one-way delay: 125.853 ms

Loss rate: 14.50%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-04-17 17:48:21

End at: 2018-04-17 17:48:51

Local clock offset: -6.697 ms

Remote clock offset: 11.49 ms

Below is generated by plot.py at 2018-04-17 20:56:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 83.94 Mbit/s

95th percentile per-packet one-way delay: 161.618 ms

Loss rate: 9.07%

-- Flow 1:

Average throughput: 50.61 Mbit/s

95th percentile per-packet one-way delay: 161.706 ms

Loss rate: 7.29%

-- Flow 2:

Average throughput: 40.07 Mbit/s

95th percentile per-packet one-way delay: 133.100 ms

Loss rate: 12.06%

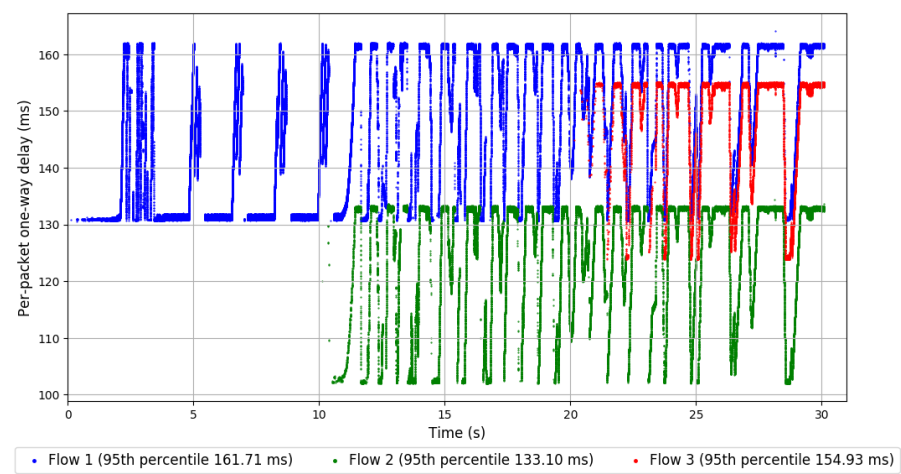
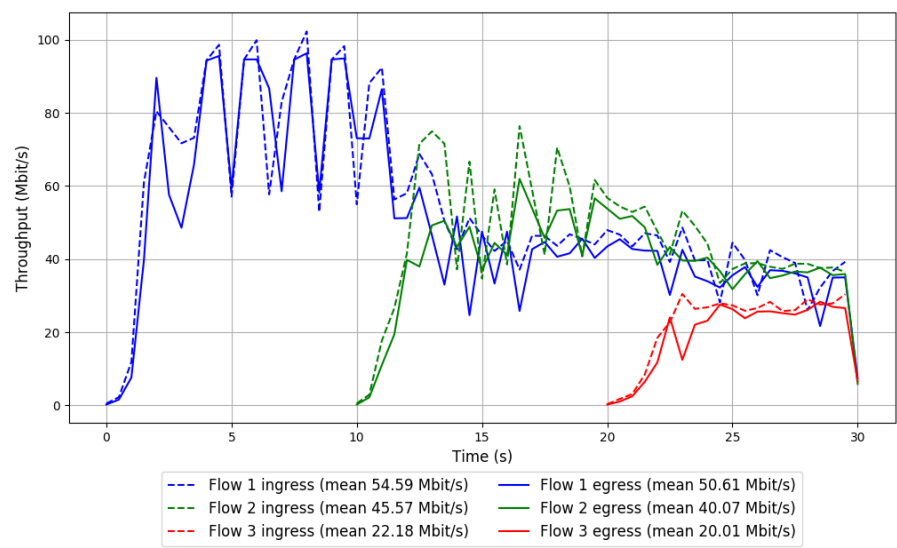
-- Flow 3:

Average throughput: 20.01 Mbit/s

95th percentile per-packet one-way delay: 154.927 ms

Loss rate: 9.94%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-04-17 18:10:48

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

Local clock offset: -4.296 ms

Remote clock offset: 5.003 ms

Below is generated by plot.py at 2018-04-17 20:56:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.66 Mbit/s

95th percentile per-packet one-way delay: 130.887 ms

Loss rate: 8.26%

-- Flow 1:

Average throughput: 48.79 Mbit/s

95th percentile per-packet one-way delay: 124.041 ms

Loss rate: 5.98%

-- Flow 2:

Average throughput: 40.24 Mbit/s

95th percentile per-packet one-way delay: 131.075 ms

Loss rate: 9.59%

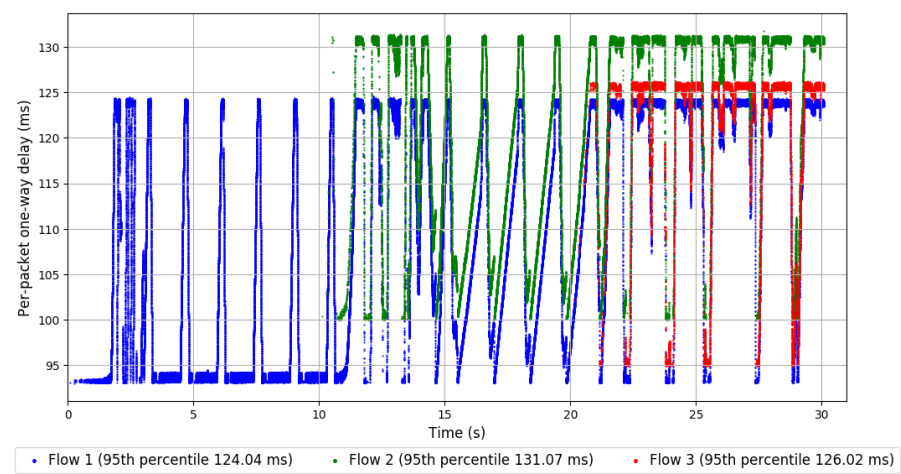
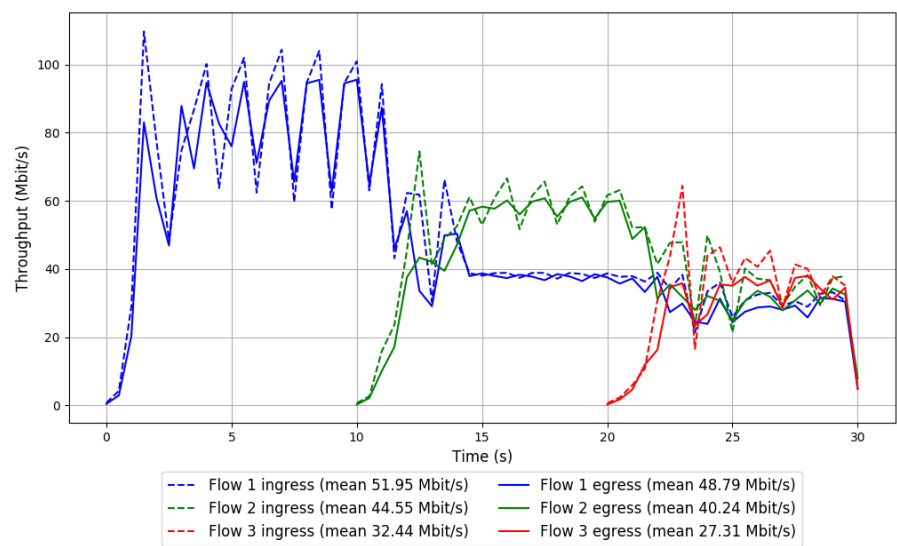
-- Flow 3:

Average throughput: 27.31 Mbit/s

95th percentile per-packet one-way delay: 126.022 ms

Loss rate: 15.63%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-04-17 18:33:14

End at: 2018-04-17 18:33:44

Local clock offset: -5.813 ms

Remote clock offset: 6.006 ms

Below is generated by plot.py at 2018-04-17 20:56:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.16 Mbit/s

95th percentile per-packet one-way delay: 133.381 ms

Loss rate: 9.94%

-- Flow 1:

Average throughput: 52.30 Mbit/s

95th percentile per-packet one-way delay: 133.457 ms

Loss rate: 8.16%

-- Flow 2:

Average throughput: 34.68 Mbit/s

95th percentile per-packet one-way delay: 126.808 ms

Loss rate: 11.41%

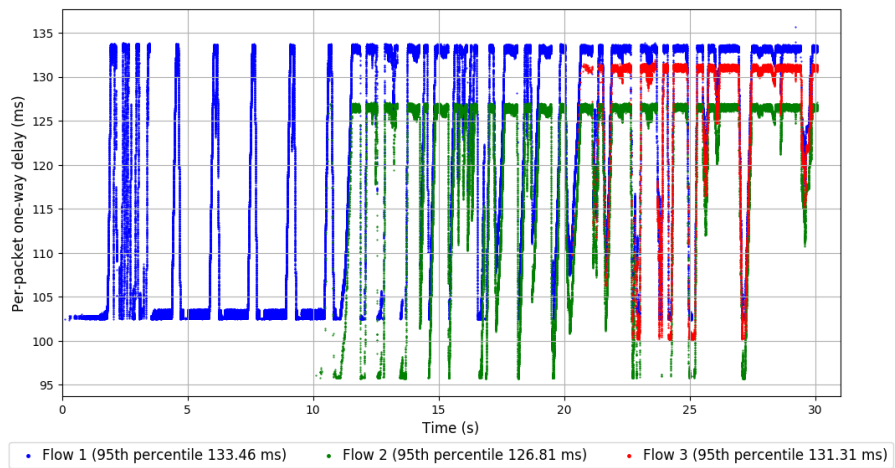
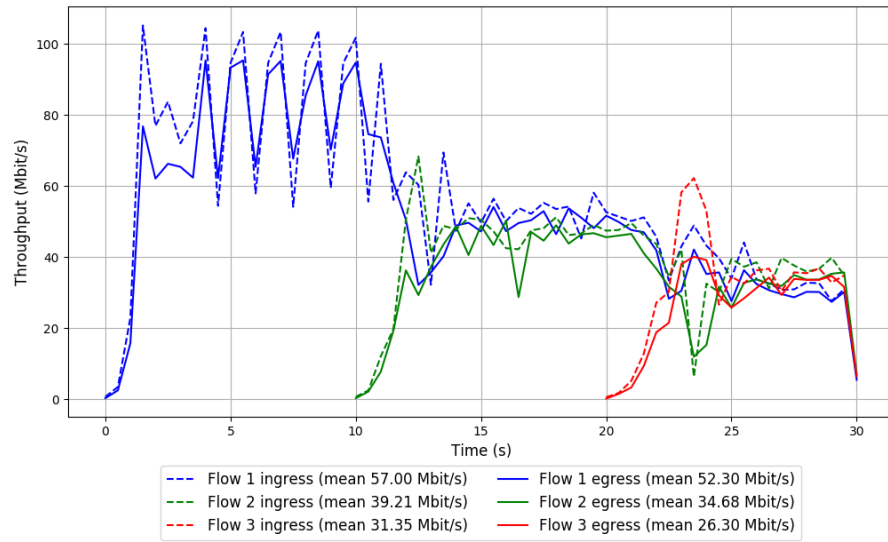
-- Flow 3:

Average throughput: 26.30 Mbit/s

95th percentile per-packet one-way delay: 131.311 ms

Loss rate: 15.98%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-04-17 18:55:27

End at: 2018-04-17 18:55:57

Local clock offset: -4.721 ms

Remote clock offset: 6.116 ms

Below is generated by plot.py at 2018-04-17 20:56:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.04 Mbit/s

95th percentile per-packet one-way delay: 130.514 ms

Loss rate: 7.58%

-- Flow 1:

Average throughput: 56.34 Mbit/s

95th percentile per-packet one-way delay: 123.963 ms

Loss rate: 6.45%

-- Flow 2:

Average throughput: 32.39 Mbit/s

95th percentile per-packet one-way delay: 125.498 ms

Loss rate: 9.06%

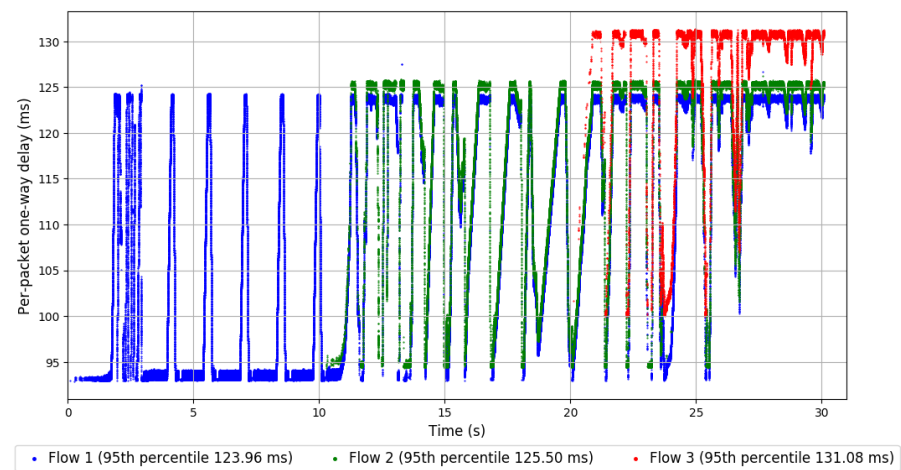
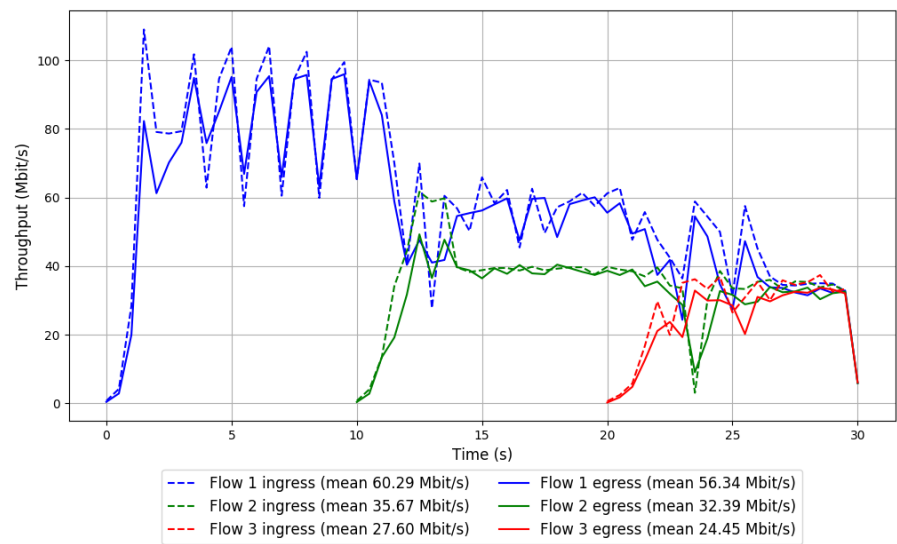
-- Flow 3:

Average throughput: 24.45 Mbit/s

95th percentile per-packet one-way delay: 131.083 ms

Loss rate: 11.20%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-04-17 19:18:08

End at: 2018-04-17 19:18:38

Local clock offset: -4.692 ms

Remote clock offset: 10.67 ms

Below is generated by plot.py at 2018-04-17 20:56:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 83.28 Mbit/s

95th percentile per-packet one-way delay: 137.016 ms

Loss rate: 7.90%

-- Flow 1:

Average throughput: 49.14 Mbit/s

95th percentile per-packet one-way delay: 130.069 ms

Loss rate: 6.24%

-- Flow 2:

Average throughput: 36.52 Mbit/s

95th percentile per-packet one-way delay: 129.233 ms

Loss rate: 9.48%

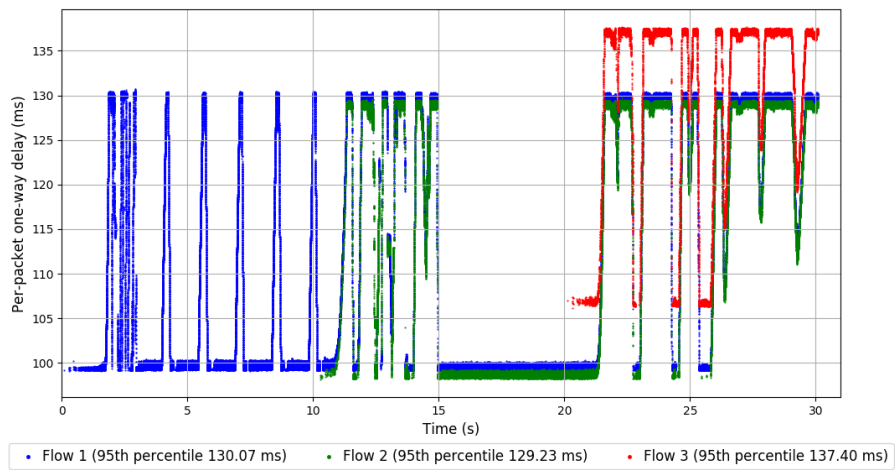
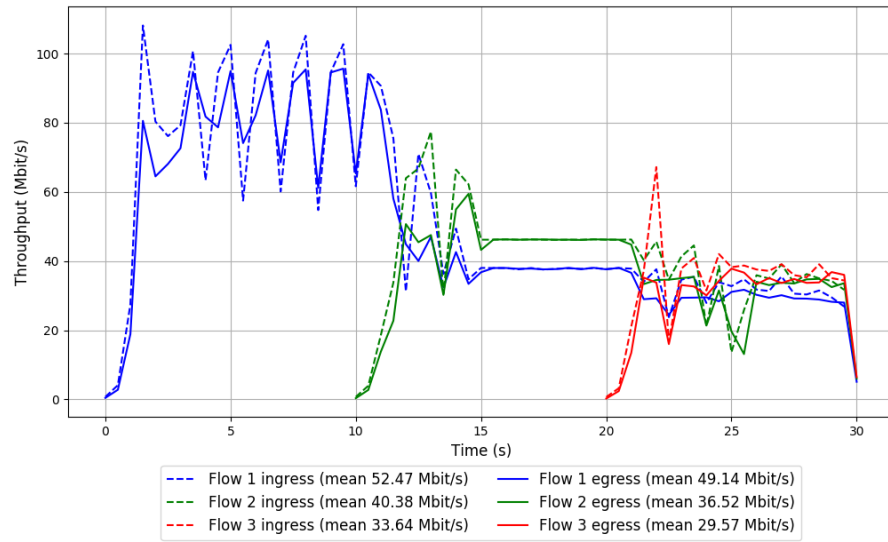
-- Flow 3:

Average throughput: 29.57 Mbit/s

95th percentile per-packet one-way delay: 137.403 ms

Loss rate: 11.89%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-04-17 19:40:21

End at: 2018-04-17 19:40:51

Local clock offset: -6.482 ms

Remote clock offset: 7.303 ms

Below is generated by plot.py at 2018-04-17 20:56:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 82.44 Mbit/s

95th percentile per-packet one-way delay: 132.558 ms

Loss rate: 6.93%

-- Flow 1:

Average throughput: 53.20 Mbit/s

95th percentile per-packet one-way delay: 128.110 ms

Loss rate: 5.61%

-- Flow 2:

Average throughput: 32.19 Mbit/s

95th percentile per-packet one-way delay: 128.156 ms

Loss rate: 8.09%

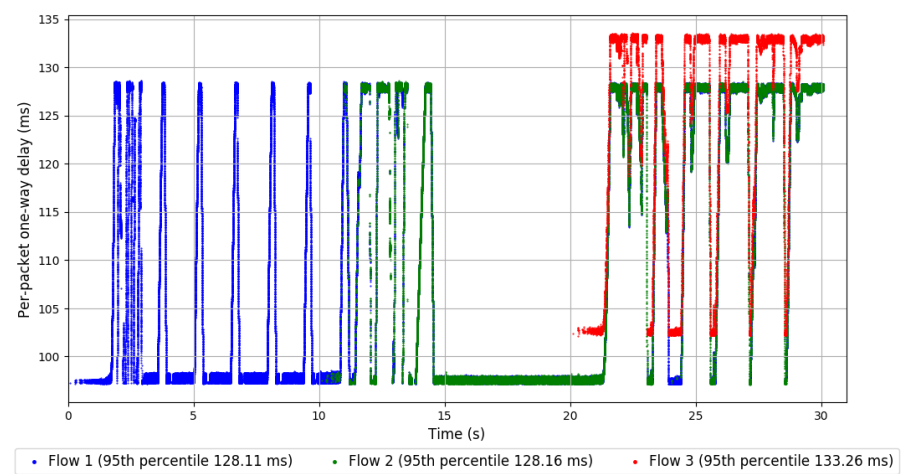
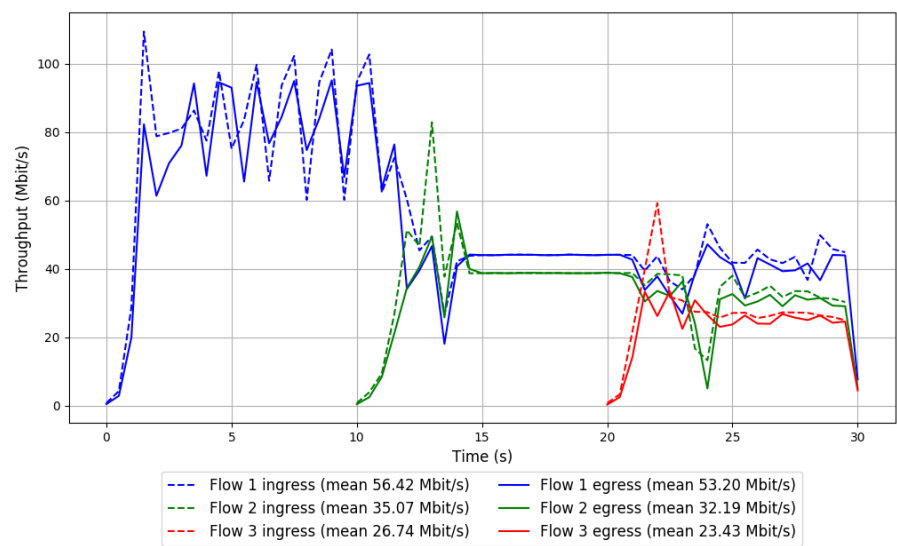
-- Flow 3:

Average throughput: 23.43 Mbit/s

95th percentile per-packet one-way delay: 133.260 ms

Loss rate: 12.21%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-04-17 20:02:58

End at: 2018-04-17 20:03:28

Local clock offset: -5.693 ms

Remote clock offset: 7.856 ms

Below is generated by plot.py at 2018-04-17 20:57:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.58 Mbit/s

95th percentile per-packet one-way delay: 130.772 ms

Loss rate: 7.69%

-- Flow 1:

Average throughput: 58.21 Mbit/s

95th percentile per-packet one-way delay: 130.853 ms

Loss rate: 6.36%

-- Flow 2:

Average throughput: 25.59 Mbit/s

95th percentile per-packet one-way delay: 125.755 ms

Loss rate: 7.33%

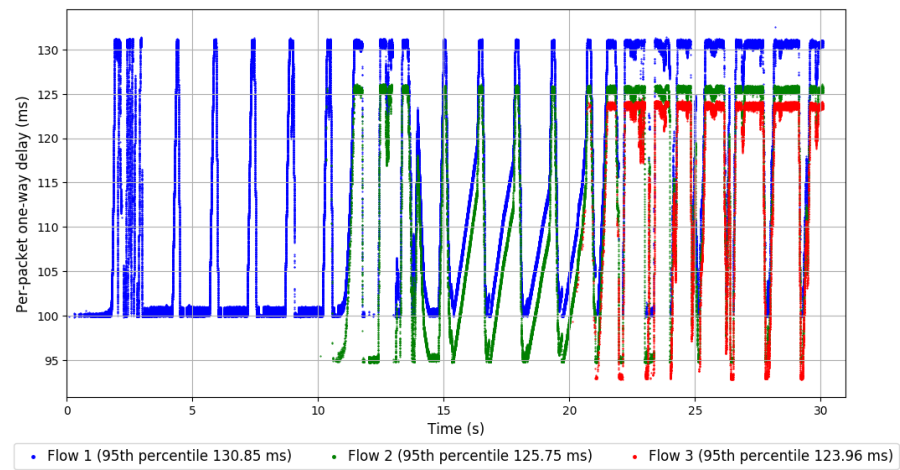
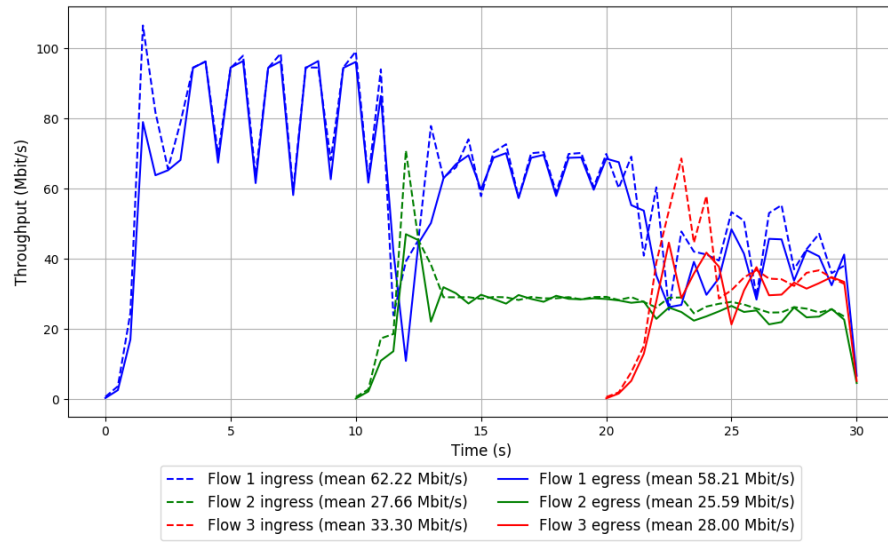
-- Flow 3:

Average throughput: 28.00 Mbit/s

95th percentile per-packet one-way delay: 123.956 ms

Loss rate: 15.72%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-04-17 20:25:26

End at: 2018-04-17 20:25:56

Local clock offset: -5.51 ms

Remote clock offset: 9.565 ms

Below is generated by plot.py at 2018-04-17 20:57:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.28 Mbit/s

95th percentile per-packet one-way delay: 129.943 ms

Loss rate: 8.37%

-- Flow 1:

Average throughput: 52.03 Mbit/s

95th percentile per-packet one-way delay: 126.696 ms

Loss rate: 6.33%

-- Flow 2:

Average throughput: 37.09 Mbit/s

95th percentile per-packet one-way delay: 130.122 ms

Loss rate: 10.76%

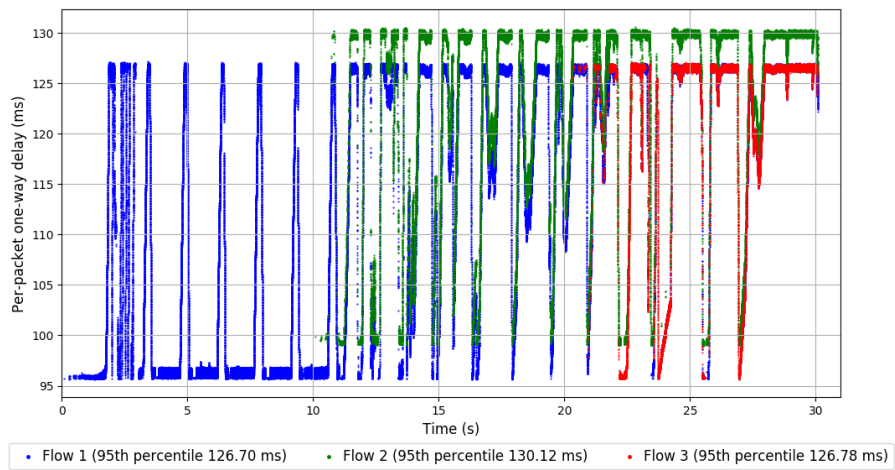
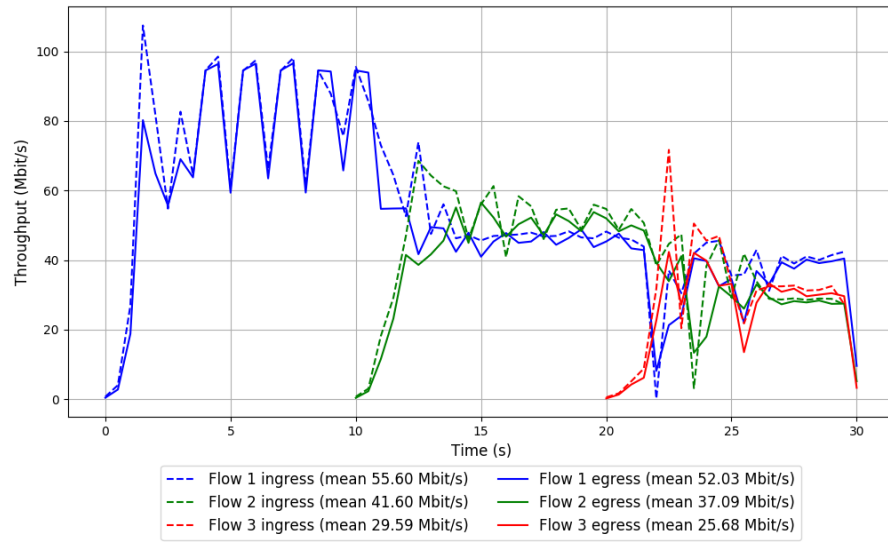
-- Flow 3:

Average throughput: 25.68 Mbit/s

95th percentile per-packet one-way delay: 126.781 ms

Loss rate: 13.12%

Run 10: Report of TCP BBR — Data Link

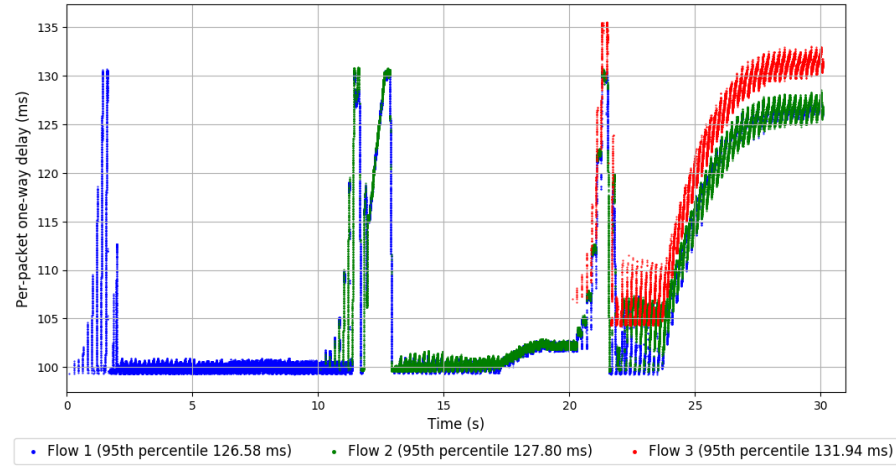
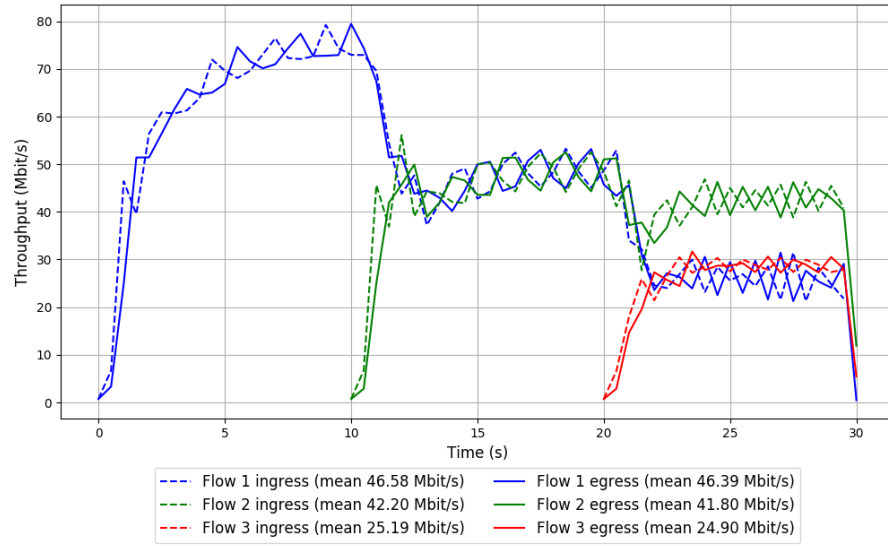


Run 1: Statistics of TCP Cubic

Start at: 2018-04-17 16:54:03
End at: 2018-04-17 16:54:33
Local clock offset: -4.41 ms
Remote clock offset: 10.182 ms

Below is generated by plot.py at 2018-04-17 20:57:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 82.53 Mbit/s
95th percentile per-packet one-way delay: 129.894 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 46.39 Mbit/s
95th percentile per-packet one-way delay: 126.577 ms
Loss rate: 0.31%
-- Flow 2:
Average throughput: 41.80 Mbit/s
95th percentile per-packet one-way delay: 127.799 ms
Loss rate: 0.79%
-- Flow 3:
Average throughput: 24.90 Mbit/s
95th percentile per-packet one-way delay: 131.939 ms
Loss rate: 0.98%

Run 1: Report of TCP Cubic — Data Link

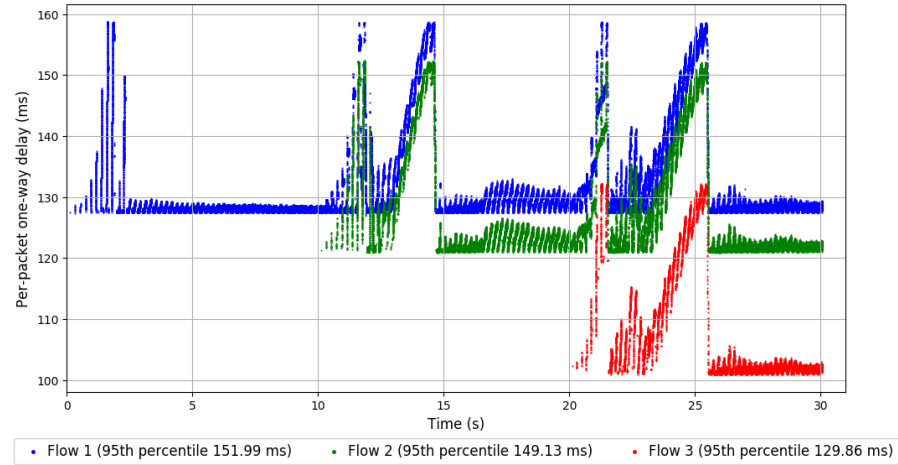
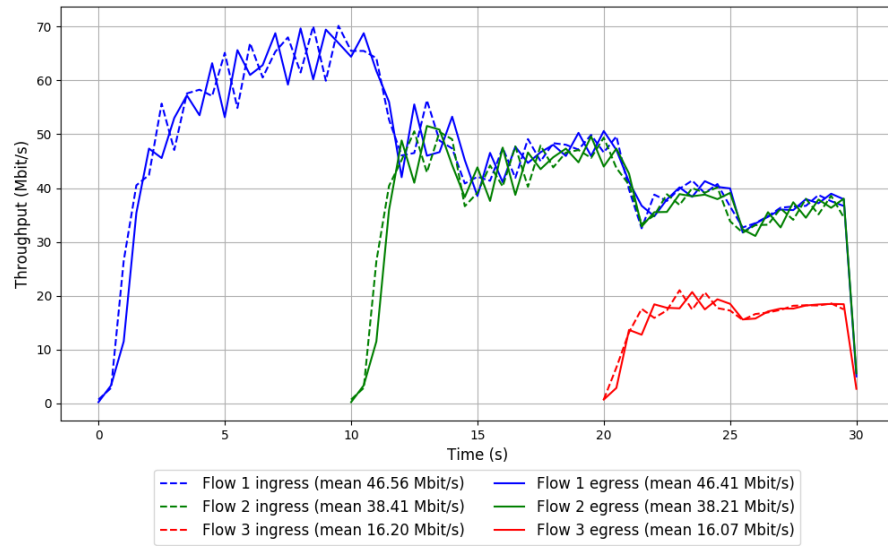


Run 2: Statistics of TCP Cubic

Start at: 2018-04-17 17:16:35
End at: 2018-04-17 17:17:05
Local clock offset: -5.127 ms
Remote clock offset: 10.665 ms

Below is generated by plot.py at 2018-04-17 20:57:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 77.19 Mbit/s
95th percentile per-packet one-way delay: 149.742 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 46.41 Mbit/s
95th percentile per-packet one-way delay: 151.985 ms
Loss rate: 0.43%
-- Flow 2:
Average throughput: 38.21 Mbit/s
95th percentile per-packet one-way delay: 149.126 ms
Loss rate: 0.62%
-- Flow 3:
Average throughput: 16.07 Mbit/s
95th percentile per-packet one-way delay: 129.858 ms
Loss rate: 0.82%

Run 2: Report of TCP Cubic — Data Link

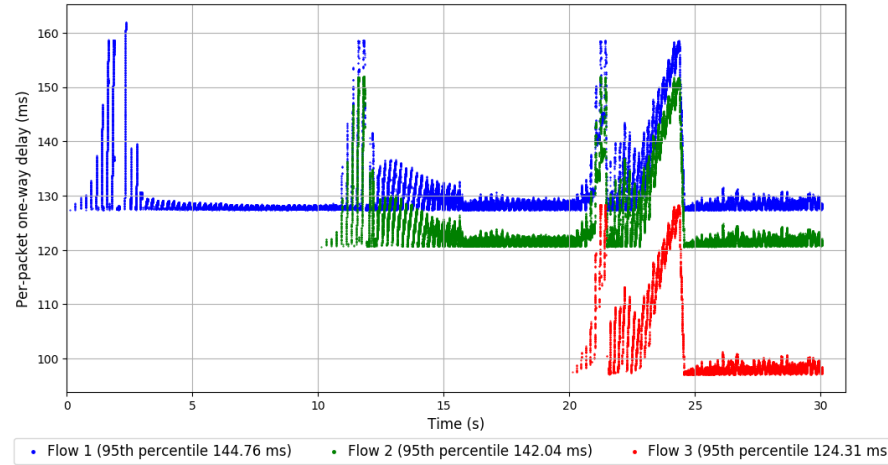
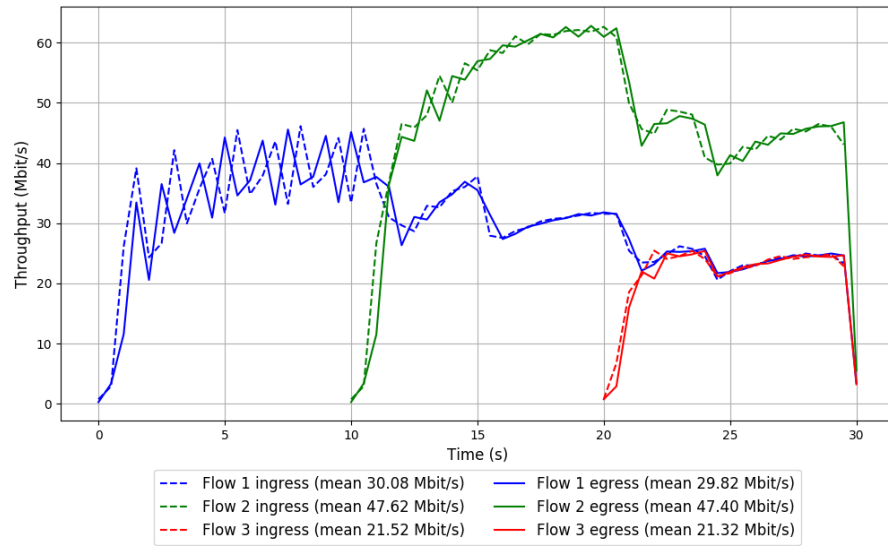


Run 3: Statistics of TCP Cubic

Start at: 2018-04-17 17:38:53
End at: 2018-04-17 17:39:23
Local clock offset: -5.819 ms
Remote clock offset: 10.516 ms

Below is generated by plot.py at 2018-04-17 20:57:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 68.46 Mbit/s
95th percentile per-packet one-way delay: 141.947 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 29.82 Mbit/s
95th percentile per-packet one-way delay: 144.764 ms
Loss rate: 0.98%
-- Flow 2:
Average throughput: 47.40 Mbit/s
95th percentile per-packet one-way delay: 142.039 ms
Loss rate: 0.56%
-- Flow 3:
Average throughput: 21.32 Mbit/s
95th percentile per-packet one-way delay: 124.312 ms
Loss rate: 0.95%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-04-17 18:01:19

End at: 2018-04-17 18:01:49

Local clock offset: -5.496 ms

Remote clock offset: 11.82 ms

Below is generated by plot.py at 2018-04-17 20:57:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 82.75 Mbit/s

95th percentile per-packet one-way delay: 129.649 ms

Loss rate: 0.48%

-- Flow 1:

Average throughput: 45.69 Mbit/s

95th percentile per-packet one-way delay: 128.946 ms

Loss rate: 0.28%

-- Flow 2:

Average throughput: 46.79 Mbit/s

95th percentile per-packet one-way delay: 130.403 ms

Loss rate: 0.78%

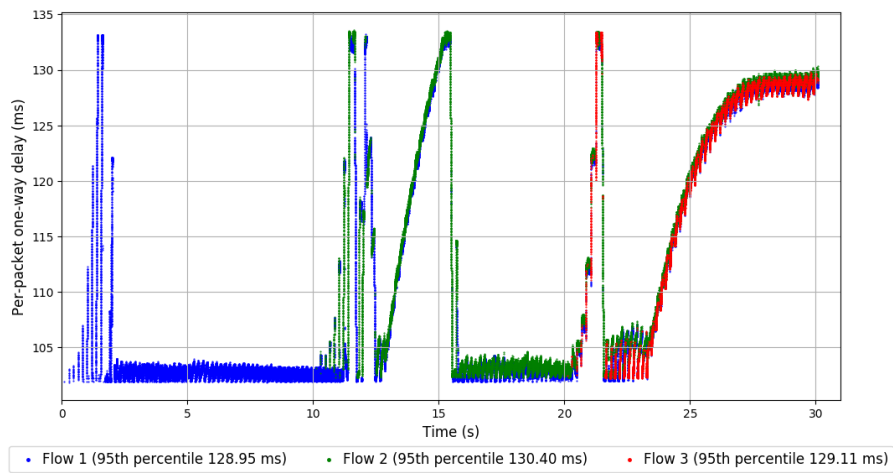
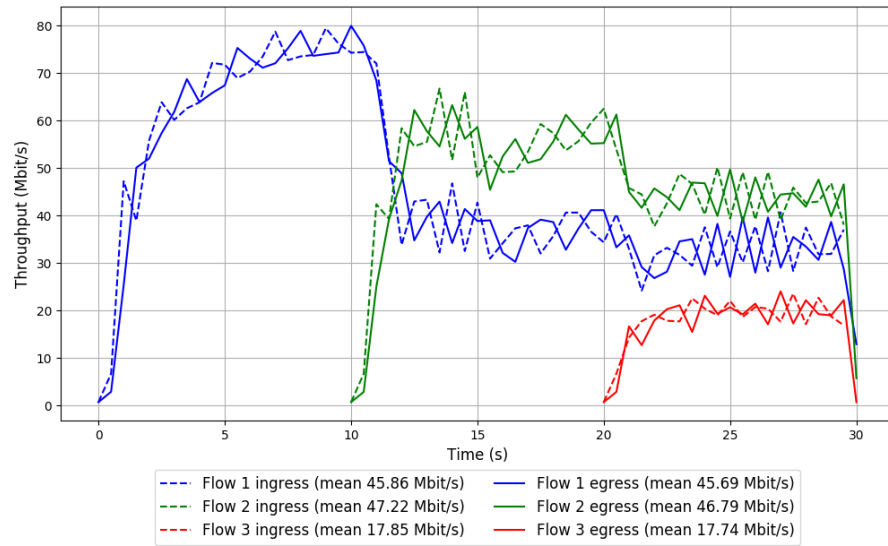
-- Flow 3:

Average throughput: 17.74 Mbit/s

95th percentile per-packet one-way delay: 129.114 ms

Loss rate: 0.39%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-04-17 18:23:46

End at: 2018-04-17 18:24:16

Local clock offset: -5.548 ms

Remote clock offset: 4.731 ms

Below is generated by plot.py at 2018-04-17 20:57:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 81.98 Mbit/s

95th percentile per-packet one-way delay: 125.621 ms

Loss rate: 0.49%

-- Flow 1:

Average throughput: 56.57 Mbit/s

95th percentile per-packet one-way delay: 125.125 ms

Loss rate: 0.24%

-- Flow 2:

Average throughput: 30.55 Mbit/s

95th percentile per-packet one-way delay: 127.742 ms

Loss rate: 1.13%

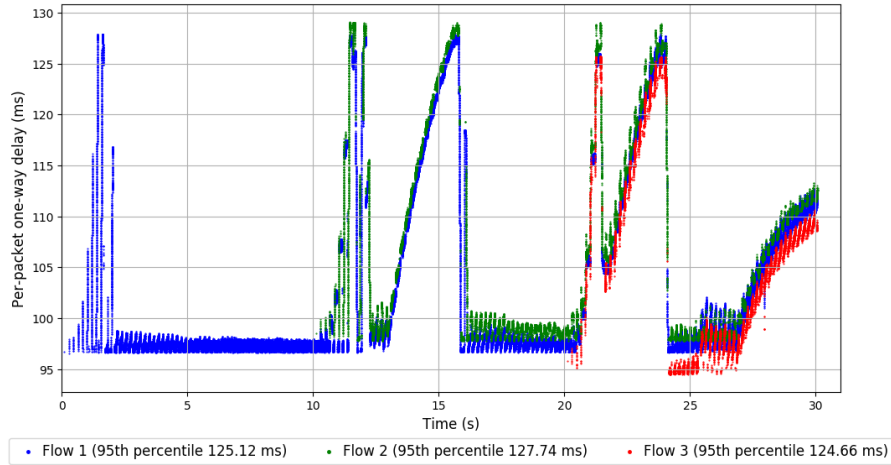
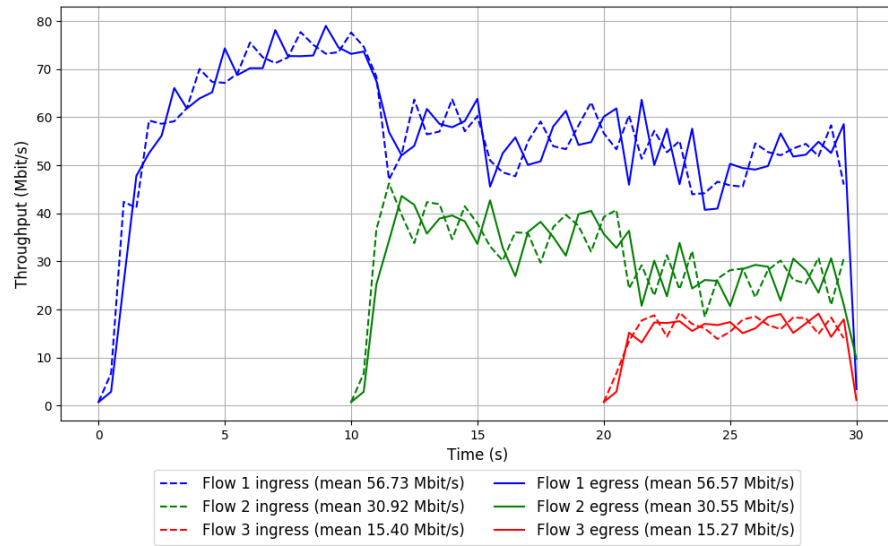
-- Flow 3:

Average throughput: 15.27 Mbit/s

95th percentile per-packet one-way delay: 124.661 ms

Loss rate: 0.72%

Run 5: Report of TCP Cubic — Data Link

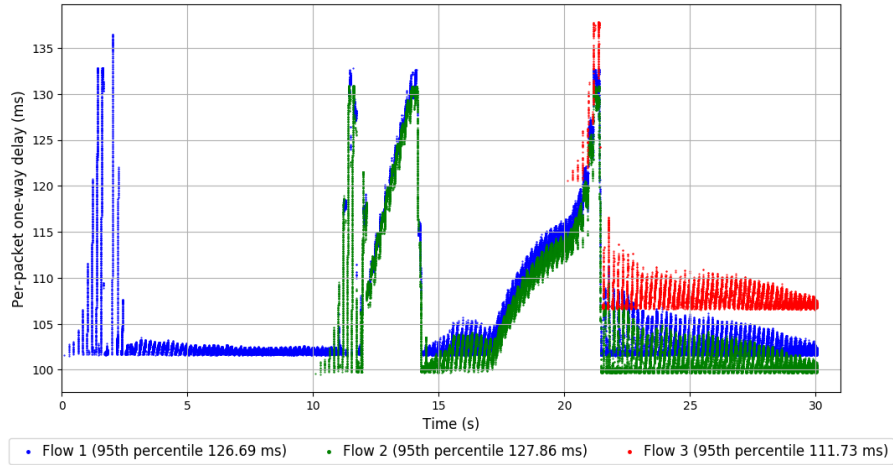
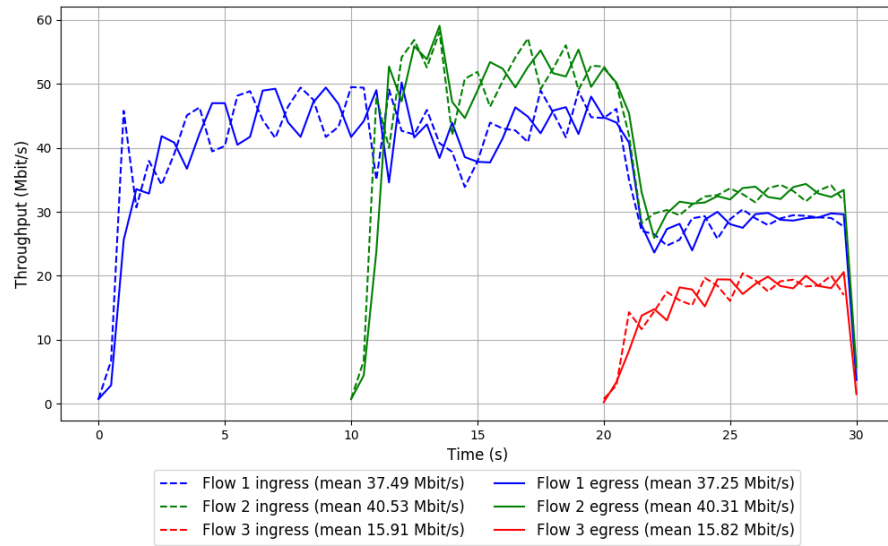


Run 6: Statistics of TCP Cubic

Start at: 2018-04-17 18:46:11
End at: 2018-04-17 18:46:41
Local clock offset: -4.646 ms
Remote clock offset: 12.308 ms

Below is generated by plot.py at 2018-04-17 20:57:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 69.35 Mbit/s
95th percentile per-packet one-way delay: 126.877 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 37.25 Mbit/s
95th percentile per-packet one-way delay: 126.687 ms
Loss rate: 0.65%
-- Flow 2:
Average throughput: 40.31 Mbit/s
95th percentile per-packet one-way delay: 127.860 ms
Loss rate: 0.53%
-- Flow 3:
Average throughput: 15.82 Mbit/s
95th percentile per-packet one-way delay: 111.726 ms
Loss rate: 0.80%

Run 6: Report of TCP Cubic — Data Link

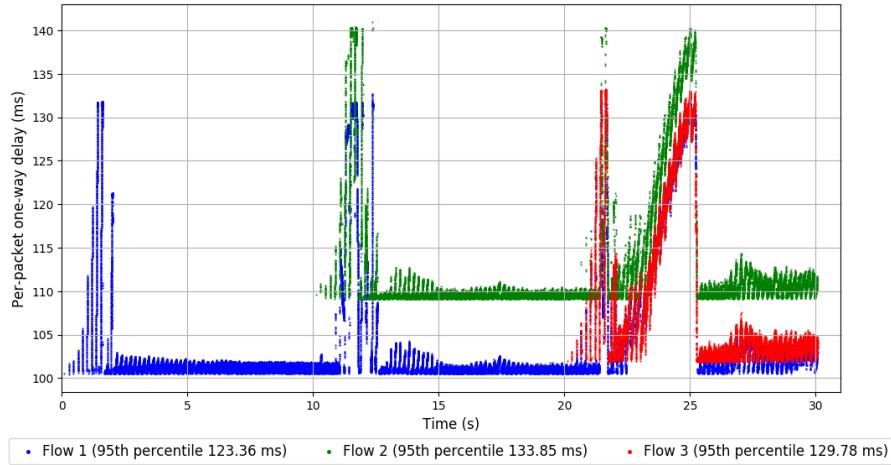
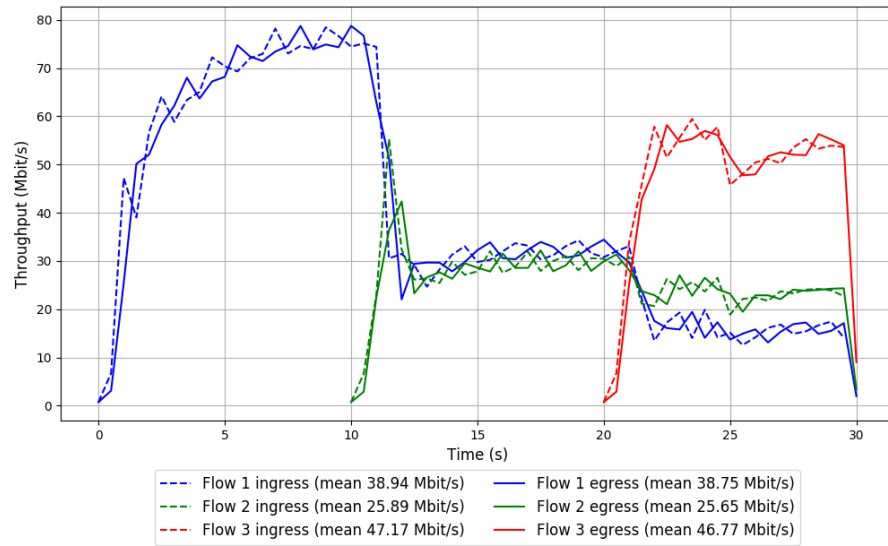


Run 7: Statistics of TCP Cubic

Start at: 2018-04-17 19:08:26
End at: 2018-04-17 19:08:56
Local clock offset: -5.503 ms
Remote clock offset: 12.476 ms

Below is generated by plot.py at 2018-04-17 20:58:44
Datalink statistics
-- Total of 3 flows:
Average throughput: 71.37 Mbit/s
95th percentile per-packet one-way delay: 128.655 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 38.75 Mbit/s
95th percentile per-packet one-way delay: 123.360 ms
Loss rate: 0.50%
-- Flow 2:
Average throughput: 25.65 Mbit/s
95th percentile per-packet one-way delay: 133.855 ms
Loss rate: 0.94%
-- Flow 3:
Average throughput: 46.77 Mbit/s
95th percentile per-packet one-way delay: 129.780 ms
Loss rate: 0.85%

Run 7: Report of TCP Cubic — Data Link

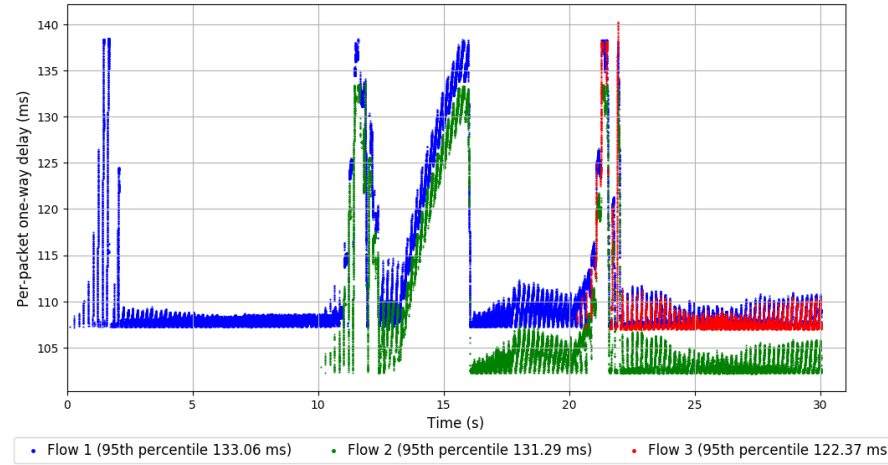
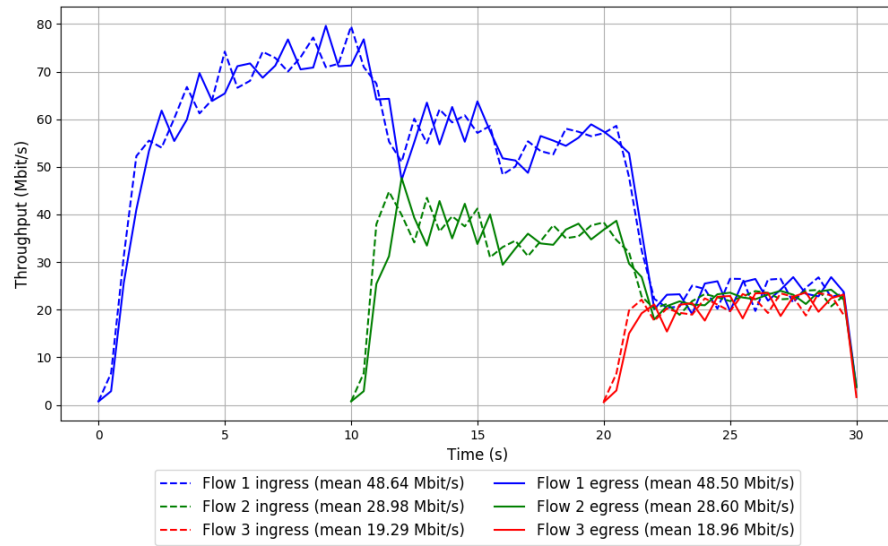


Run 8: Statistics of TCP Cubic

Start at: 2018-04-17 19:31:06
End at: 2018-04-17 19:31:36
Local clock offset: -6.186 ms
Remote clock offset: 11.532 ms

Below is generated by plot.py at 2018-04-17 20:58:48
Datalink statistics
-- Total of 3 flows:
Average throughput: 73.83 Mbit/s
95th percentile per-packet one-way delay: 132.109 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 48.50 Mbit/s
95th percentile per-packet one-way delay: 133.064 ms
Loss rate: 0.28%
-- Flow 2:
Average throughput: 28.60 Mbit/s
95th percentile per-packet one-way delay: 131.287 ms
Loss rate: 1.33%
-- Flow 3:
Average throughput: 18.96 Mbit/s
95th percentile per-packet one-way delay: 122.372 ms
Loss rate: 1.76%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-04-17 19:53:20

End at: 2018-04-17 19:53:50

Local clock offset: -6.225 ms

Remote clock offset: 8.26 ms

Below is generated by plot.py at 2018-04-17 20:58:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 82.26 Mbit/s

95th percentile per-packet one-way delay: 124.444 ms

Loss rate: 0.49%

-- Flow 1:

Average throughput: 49.86 Mbit/s

95th percentile per-packet one-way delay: 122.771 ms

Loss rate: 0.32%

-- Flow 2:

Average throughput: 39.43 Mbit/s

95th percentile per-packet one-way delay: 125.131 ms

Loss rate: 0.82%

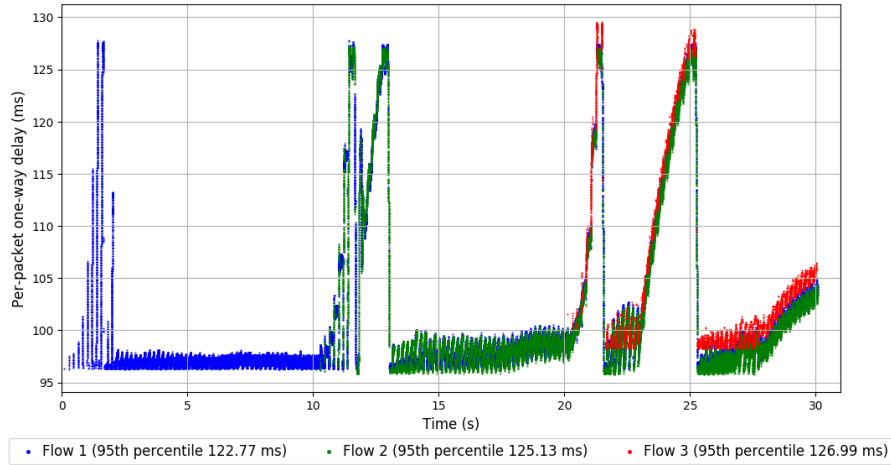
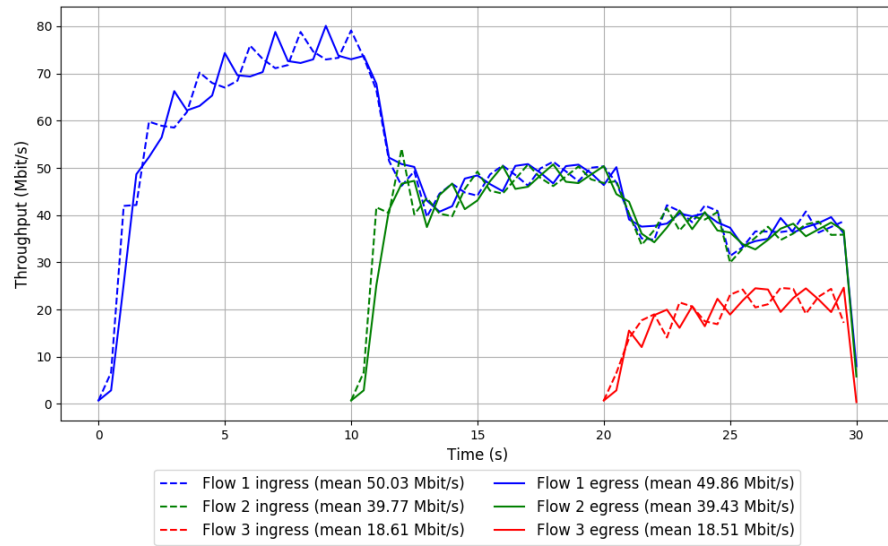
-- Flow 3:

Average throughput: 18.51 Mbit/s

95th percentile per-packet one-way delay: 126.986 ms

Loss rate: 0.44%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-04-17 20:15:57

End at: 2018-04-17 20:16:27

Local clock offset: -7.227 ms

Remote clock offset: 9.177 ms

Below is generated by plot.py at 2018-04-17 20:59:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 81.49 Mbit/s

95th percentile per-packet one-way delay: 131.608 ms

Loss rate: 0.51%

-- Flow 1:

Average throughput: 50.00 Mbit/s

95th percentile per-packet one-way delay: 130.612 ms

Loss rate: 0.36%

-- Flow 2:

Average throughput: 41.64 Mbit/s

95th percentile per-packet one-way delay: 132.797 ms

Loss rate: 0.70%

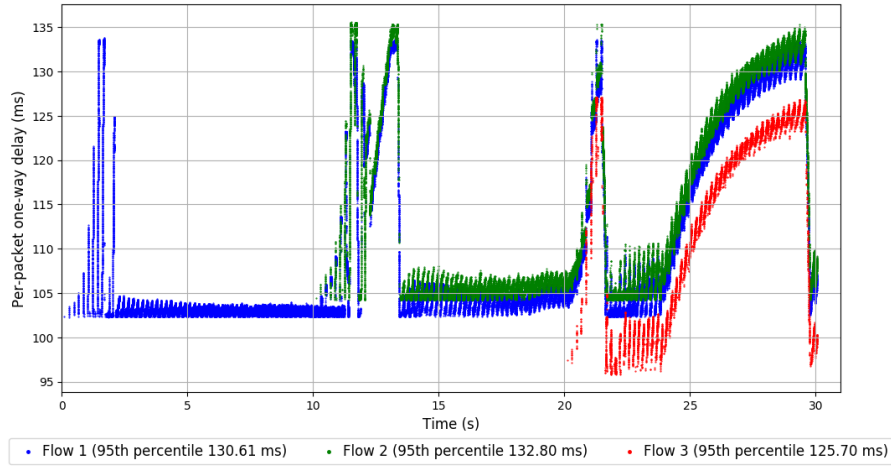
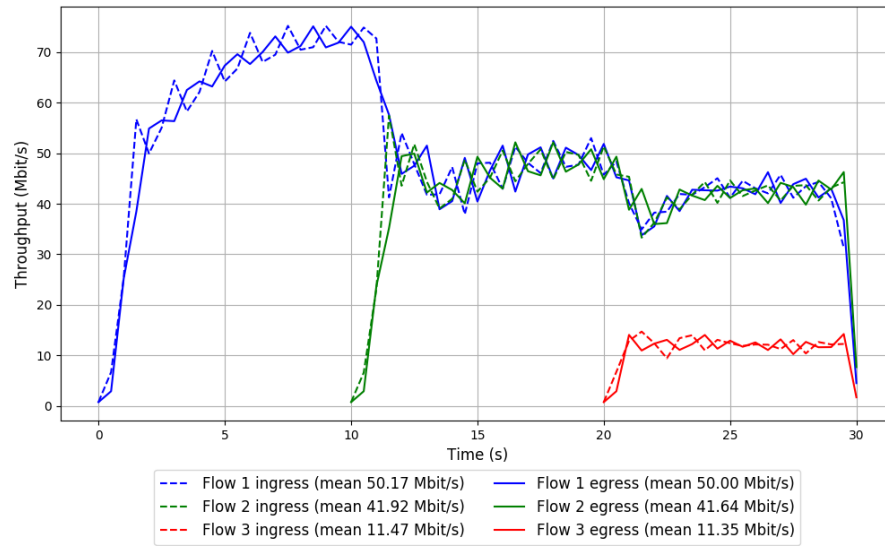
-- Flow 3:

Average throughput: 11.35 Mbit/s

95th percentile per-packet one-way delay: 125.701 ms

Loss rate: 1.07%

Run 10: Report of TCP Cubic — Data Link

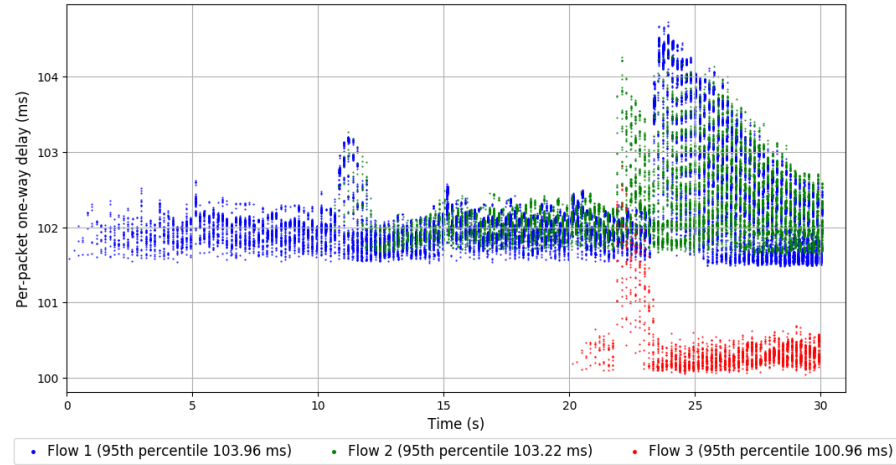
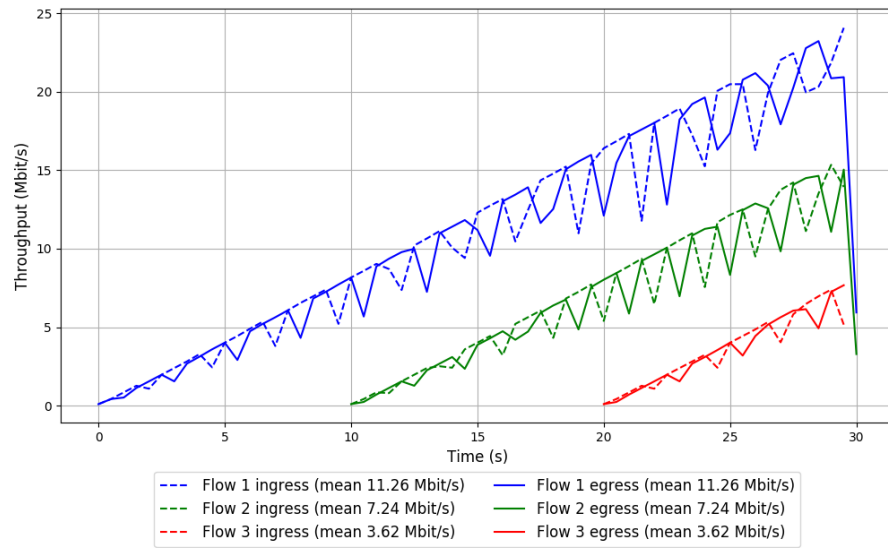


```
Run 1: Statistics of LEDBAT

Start at: 2018-04-17 17:02:22
End at: 2018-04-17 17:02:52
Local clock offset: -5.279 ms
Remote clock offset: 11.32 ms

# Below is generated by plot.py at 2018-04-17 20:59:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 17.26 Mbit/s
95th percentile per-packet one-way delay: 103.679 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 11.26 Mbit/s
95th percentile per-packet one-way delay: 103.959 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 7.24 Mbit/s
95th percentile per-packet one-way delay: 103.225 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 3.62 Mbit/s
95th percentile per-packet one-way delay: 100.959 ms
Loss rate: 0.00%
```

Run 1: Report of LEDBAT — Data Link

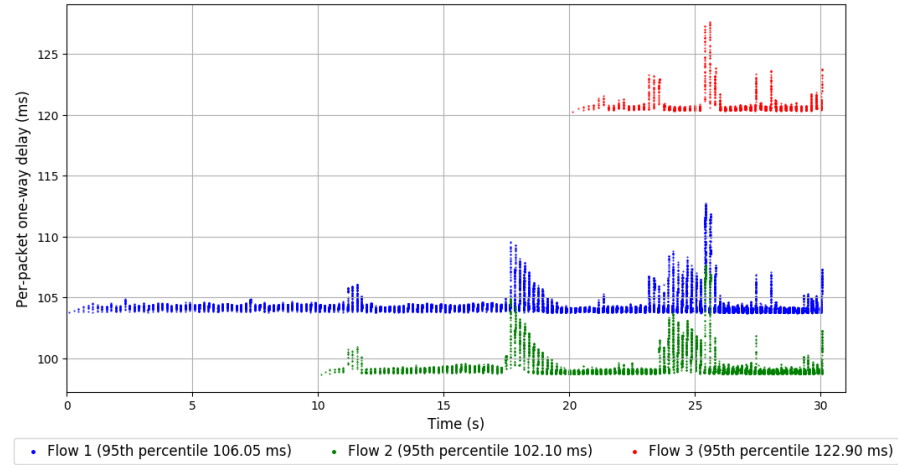
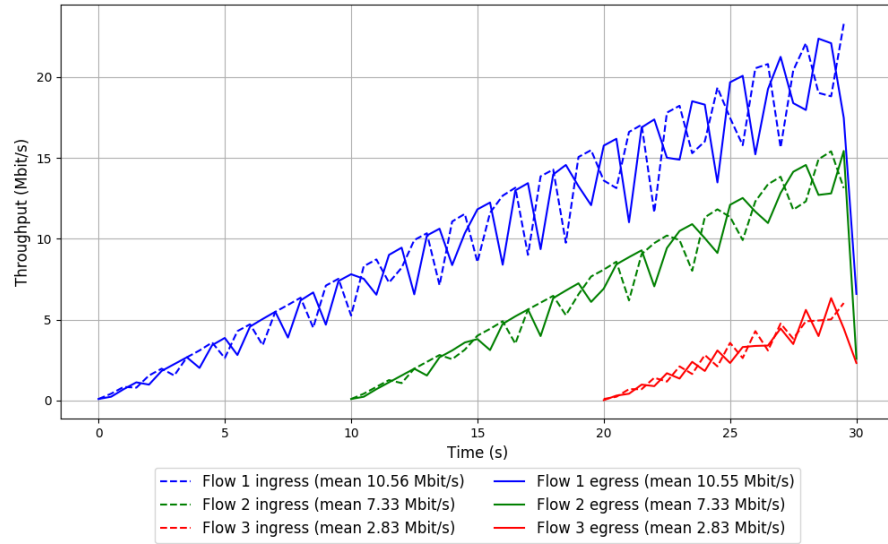


Run 2: Statistics of LEDBAT

Start at: 2018-04-17 17:24:41
End at: 2018-04-17 17:25:11
Local clock offset: -5.889 ms
Remote clock offset: 10.051 ms

Below is generated by plot.py at 2018-04-17 20:59:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 16.37 Mbit/s
95th percentile per-packet one-way delay: 120.440 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 10.55 Mbit/s
95th percentile per-packet one-way delay: 106.046 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 7.33 Mbit/s
95th percentile per-packet one-way delay: 102.098 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 2.83 Mbit/s
95th percentile per-packet one-way delay: 122.904 ms
Loss rate: 0.00%

Run 2: Report of LEDBAT — Data Link

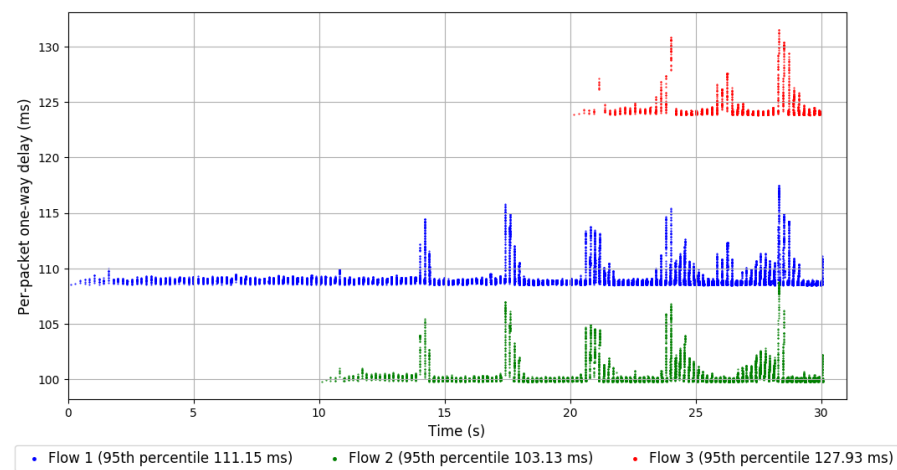
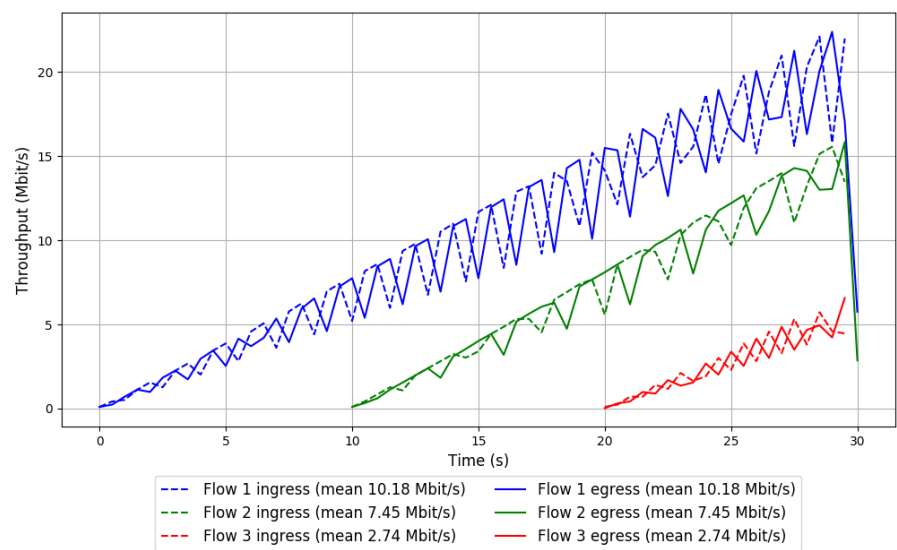


Run 3: Statistics of LEDBAT

Start at: 2018-04-17 17:47:04
End at: 2018-04-17 17:47:34
Local clock offset: -6.639 ms
Remote clock offset: 11.499 ms

```
# Below is generated by plot.py at 2018-04-17 20:59:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 16.03 Mbit/s
95th percentile per-packet one-way delay: 123.903 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 10.18 Mbit/s
95th percentile per-packet one-way delay: 111.148 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 7.45 Mbit/s
95th percentile per-packet one-way delay: 103.127 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 2.74 Mbit/s
95th percentile per-packet one-way delay: 127.932 ms
Loss rate: 0.00%
```

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-04-17 18:09:32

End at: 2018-04-17 18:10:02

Local clock offset: -5.113 ms

Remote clock offset: 5.004 ms

Below is generated by plot.py at 2018-04-17 20:59:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 17.23 Mbit/s

95th percentile per-packet one-way delay: 97.491 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 11.35 Mbit/s

95th percentile per-packet one-way delay: 97.202 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 7.16 Mbit/s

95th percentile per-packet one-way delay: 97.251 ms

Loss rate: 0.00%

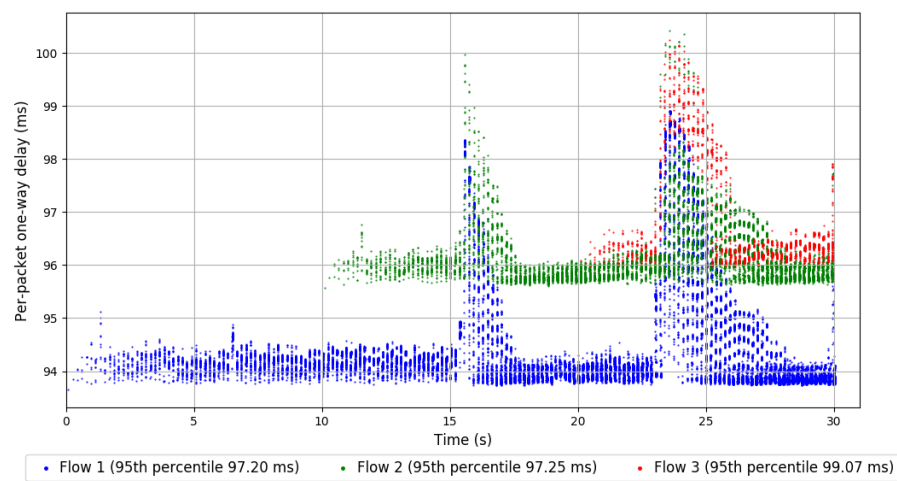
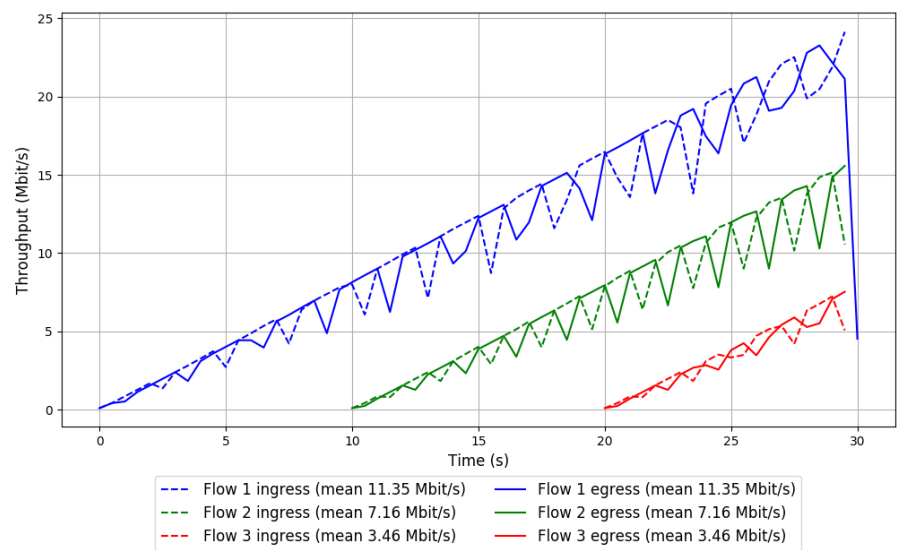
-- Flow 3:

Average throughput: 3.46 Mbit/s

95th percentile per-packet one-way delay: 99.071 ms

Loss rate: 0.00%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-04-17 18:31:58

End at: 2018-04-17 18:32:28

Local clock offset: -4.149 ms

Remote clock offset: 9.91 ms

Below is generated by plot.py at 2018-04-17 20:59:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 16.08 Mbit/s

95th percentile per-packet one-way delay: 108.432 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 10.05 Mbit/s

95th percentile per-packet one-way delay: 109.094 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 7.30 Mbit/s

95th percentile per-packet one-way delay: 100.681 ms

Loss rate: 0.00%

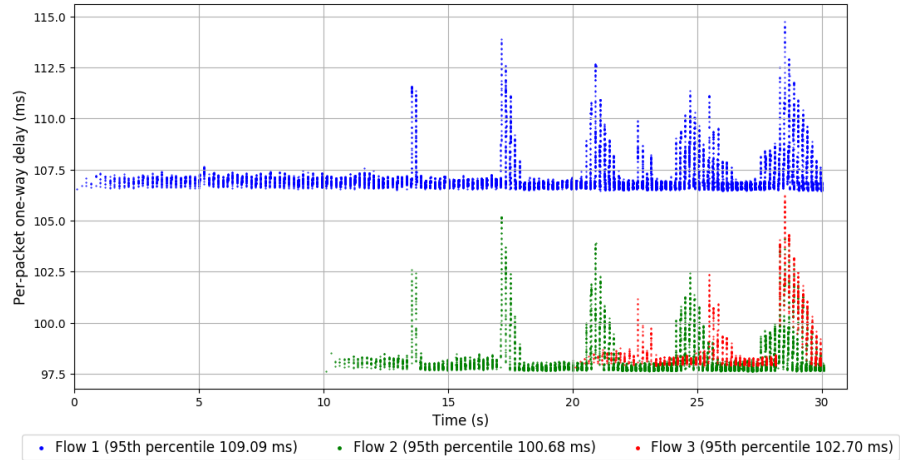
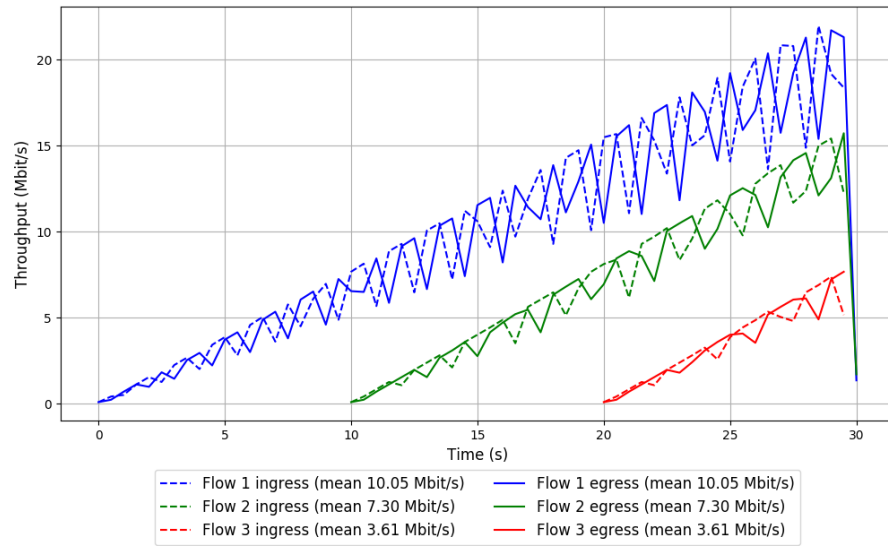
-- Flow 3:

Average throughput: 3.61 Mbit/s

95th percentile per-packet one-way delay: 102.704 ms

Loss rate: 0.00%

Run 5: Report of LEDBAT — Data Link

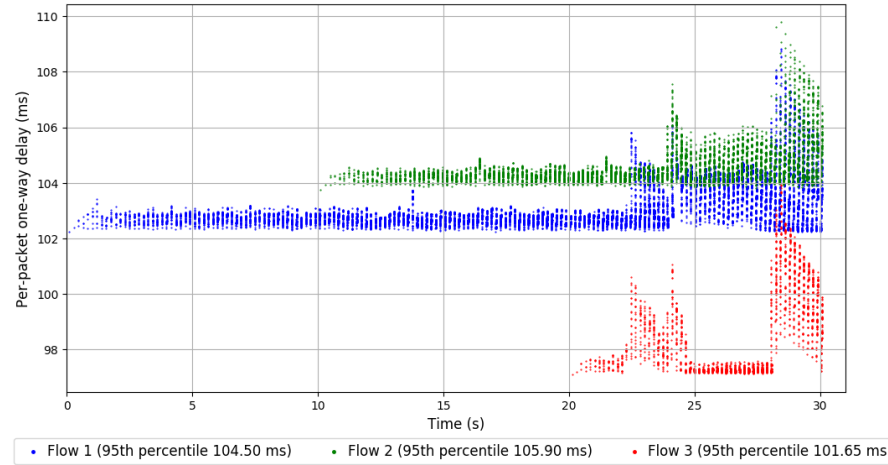
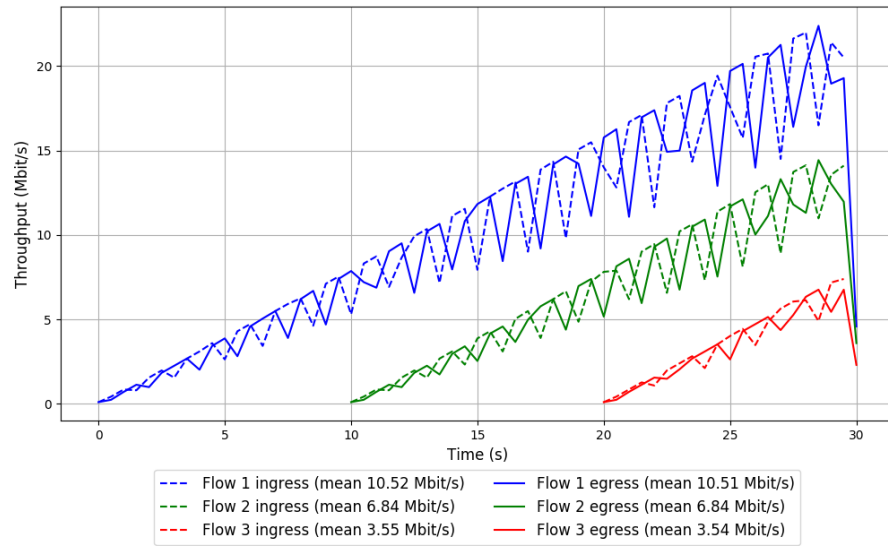


Run 6: Statistics of LEDBAT

Start at: 2018-04-17 18:54:11
End at: 2018-04-17 18:54:41
Local clock offset: -6.211 ms
Remote clock offset: 6.879 ms

Below is generated by plot.py at 2018-04-17 20:59:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 16.24 Mbit/s
95th percentile per-packet one-way delay: 105.225 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 10.51 Mbit/s
95th percentile per-packet one-way delay: 104.497 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 6.84 Mbit/s
95th percentile per-packet one-way delay: 105.903 ms
Loss rate: 0.14%
-- Flow 3:
Average throughput: 3.54 Mbit/s
95th percentile per-packet one-way delay: 101.654 ms
Loss rate: 0.10%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-04-17 19:16:52

End at: 2018-04-17 19:17:22

Local clock offset: -5.468 ms

Remote clock offset: 6.669 ms

Below is generated by plot.py at 2018-04-17 20:59:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 17.21 Mbit/s

95th percentile per-packet one-way delay: 97.759 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 11.16 Mbit/s

95th percentile per-packet one-way delay: 97.830 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 7.38 Mbit/s

95th percentile per-packet one-way delay: 96.500 ms

Loss rate: 0.00%

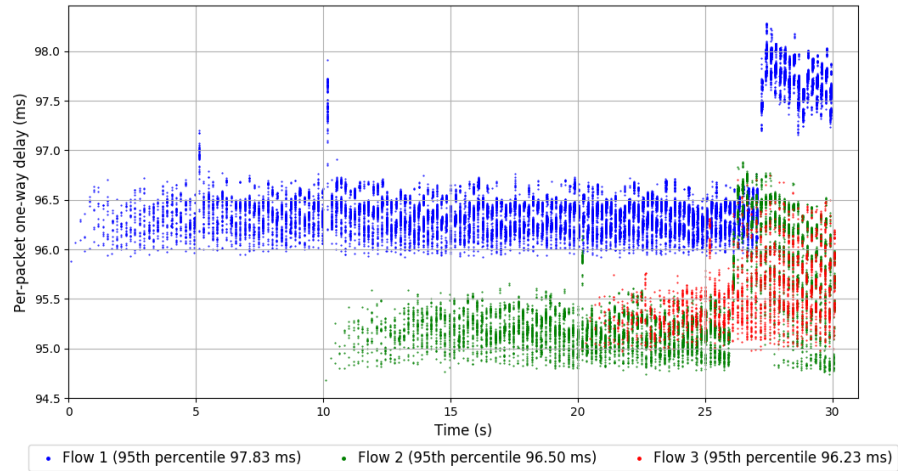
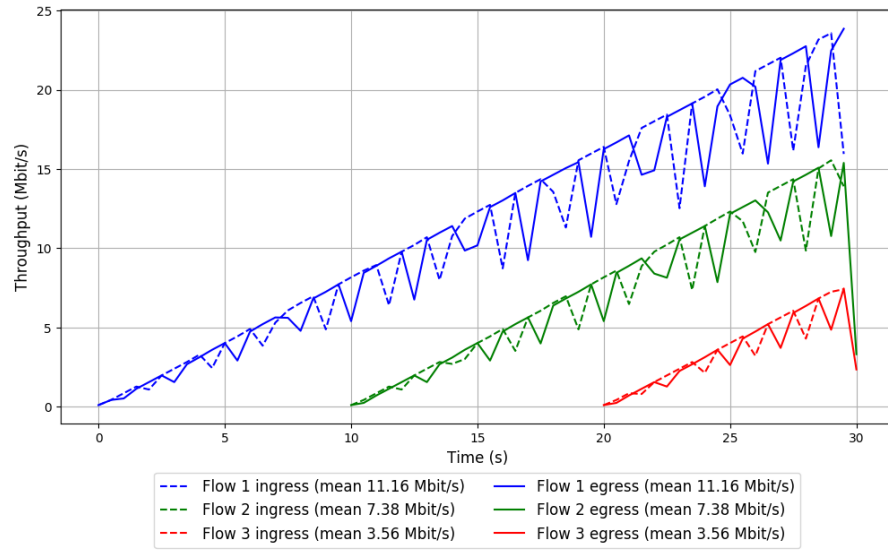
-- Flow 3:

Average throughput: 3.56 Mbit/s

95th percentile per-packet one-way delay: 96.233 ms

Loss rate: 0.00%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-04-17 19:39:05

End at: 2018-04-17 19:39:35

Local clock offset: -4.81 ms

Remote clock offset: 7.154 ms

Below is generated by plot.py at 2018-04-17 20:59:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 16.97 Mbit/s

95th percentile per-packet one-way delay: 100.640 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 11.09 Mbit/s

95th percentile per-packet one-way delay: 98.392 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 7.16 Mbit/s

95th percentile per-packet one-way delay: 99.231 ms

Loss rate: 0.00%

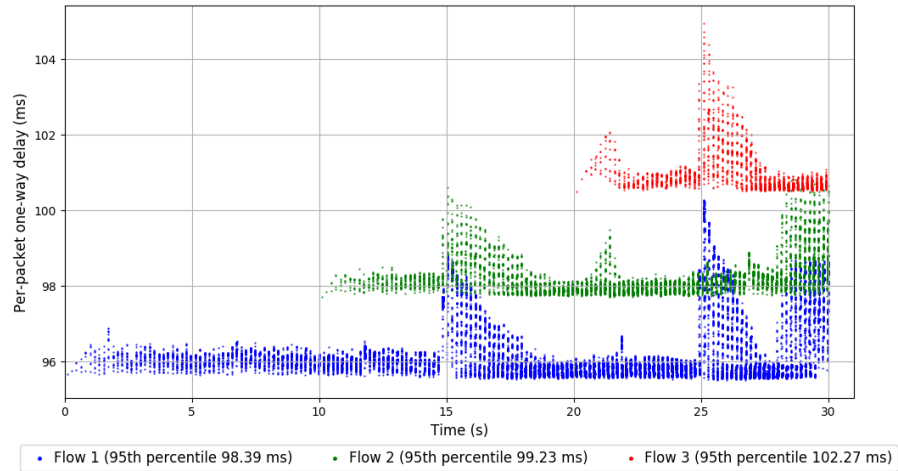
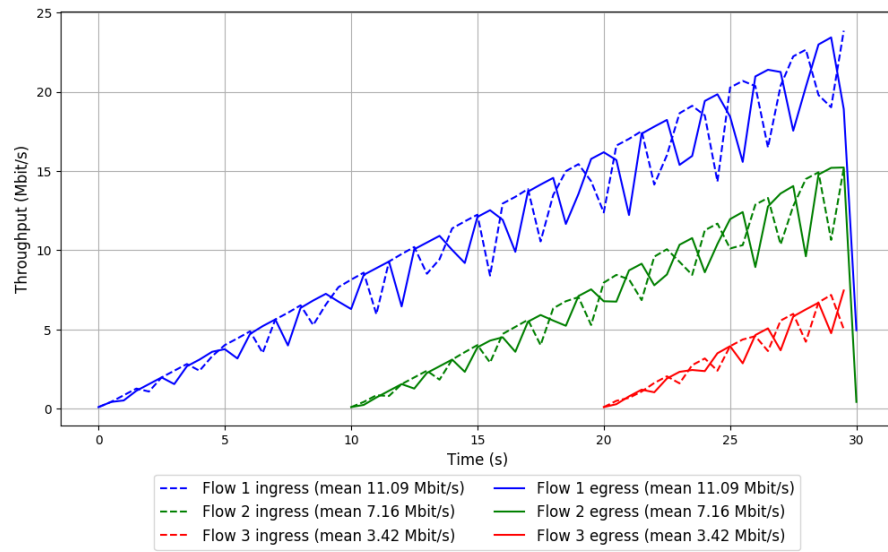
-- Flow 3:

Average throughput: 3.42 Mbit/s

95th percentile per-packet one-way delay: 102.267 ms

Loss rate: 0.00%

Run 8: Report of LEDBAT — Data Link

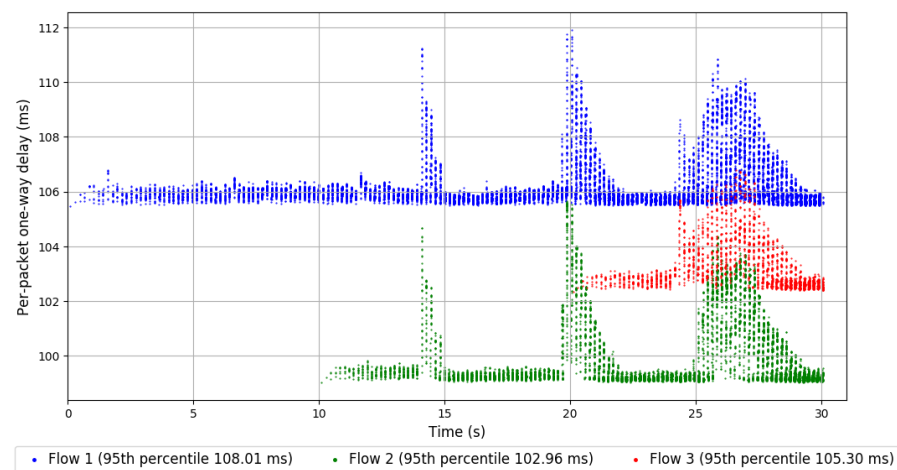
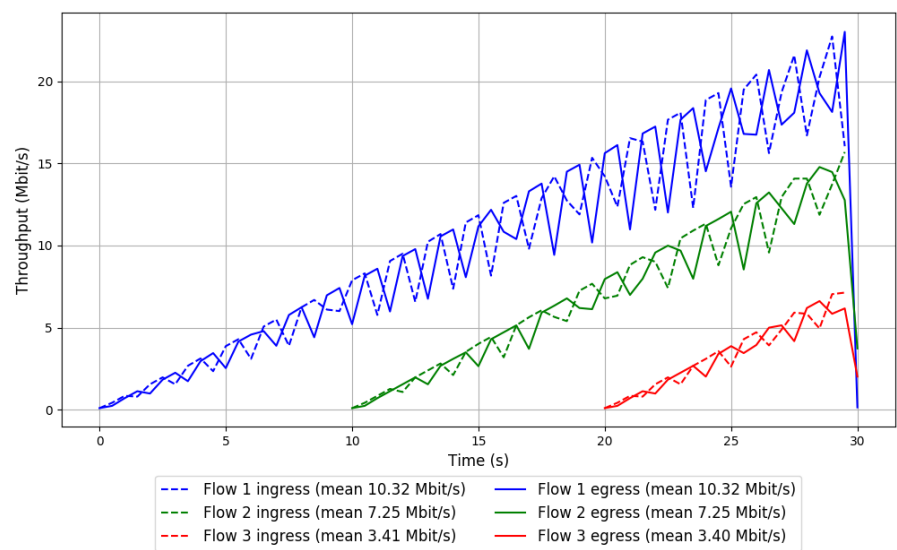


Run 9: Statistics of LEDBAT

Start at: 2018-04-17 20:01:42
End at: 2018-04-17 20:02:12
Local clock offset: -6.496 ms
Remote clock offset: 12.711 ms

Below is generated by plot.py at 2018-04-17 20:59:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 16.27 Mbit/s
95th percentile per-packet one-way delay: 107.362 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 10.32 Mbit/s
95th percentile per-packet one-way delay: 108.012 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 7.25 Mbit/s
95th percentile per-packet one-way delay: 102.957 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 3.40 Mbit/s
95th percentile per-packet one-way delay: 105.299 ms
Loss rate: 0.21%

Run 9: Report of LEDBAT — Data Link

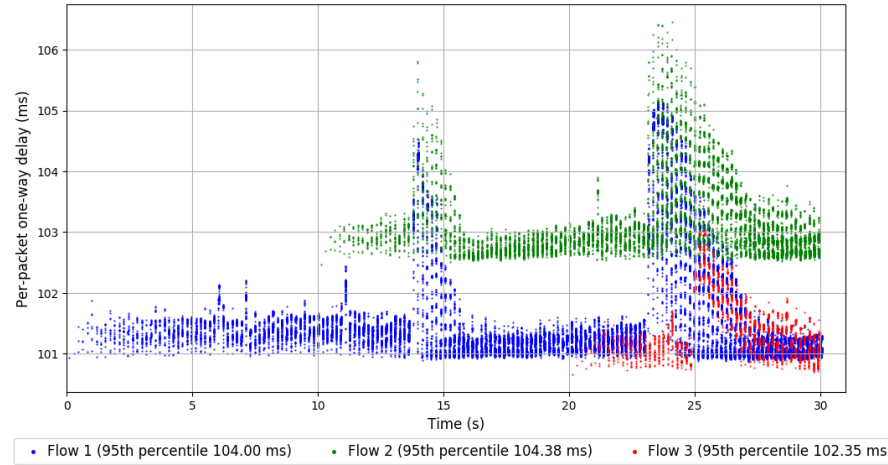
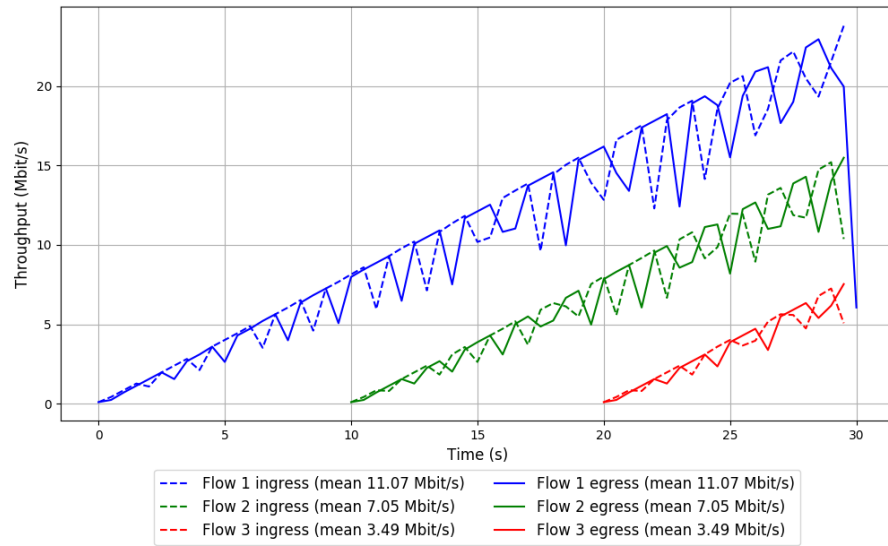


Run 10: Statistics of LEDBAT

Start at: 2018-04-17 20:24:10
End at: 2018-04-17 20:24:40
Local clock offset: -7.079 ms
Remote clock offset: 13.388 ms

Below is generated by plot.py at 2018-04-17 20:59:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 16.88 Mbit/s
95th percentile per-packet one-way delay: 104.146 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 11.07 Mbit/s
95th percentile per-packet one-way delay: 103.998 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 7.05 Mbit/s
95th percentile per-packet one-way delay: 104.376 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 3.49 Mbit/s
95th percentile per-packet one-way delay: 102.347 ms
Loss rate: 0.00%

Run 10: Report of LEDBAT — Data Link

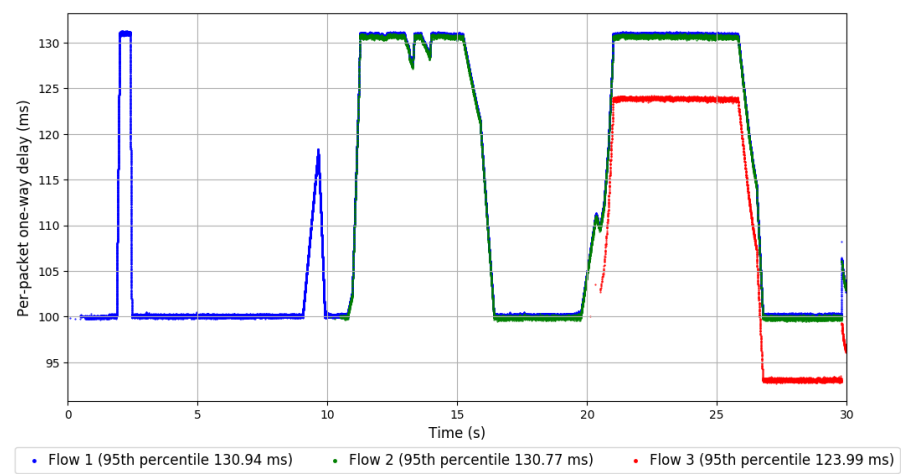
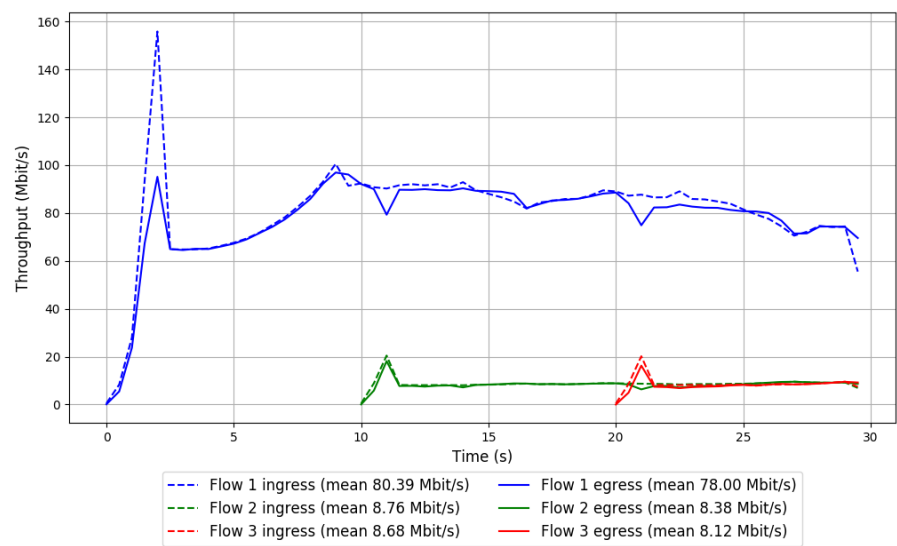


```
Run 1: Statistics of PCC-Allegro

Start at: 2018-04-17 16:55:22
End at: 2018-04-17 16:55:52
Local clock offset: -3.859 ms
Remote clock offset: 4.659 ms

# Below is generated by plot.py at 2018-04-17 20:59:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 86.25 Mbit/s
95th percentile per-packet one-way delay: 130.929 ms
Loss rate: 3.18%
-- Flow 1:
Average throughput: 78.00 Mbit/s
95th percentile per-packet one-way delay: 130.936 ms
Loss rate: 2.97%
-- Flow 2:
Average throughput: 8.38 Mbit/s
95th percentile per-packet one-way delay: 130.766 ms
Loss rate: 4.36%
-- Flow 3:
Average throughput: 8.12 Mbit/s
95th percentile per-packet one-way delay: 123.990 ms
Loss rate: 6.52%
```

Run 1: Report of PCC-Allegro — Data Link

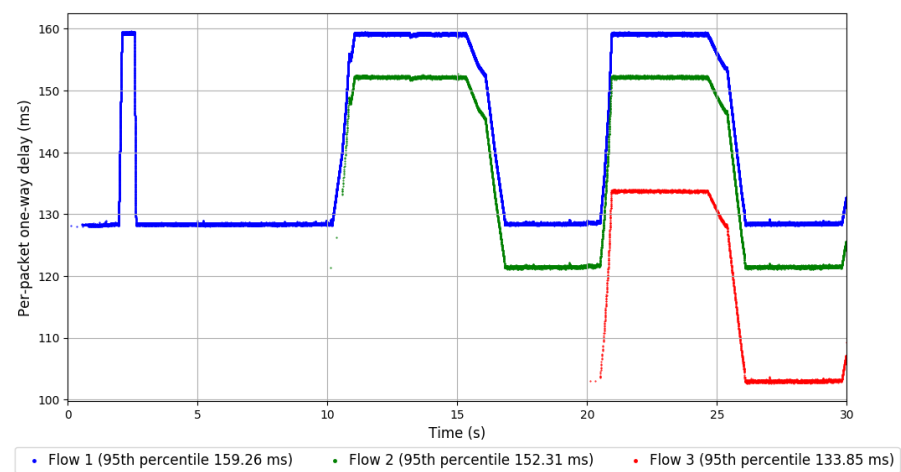
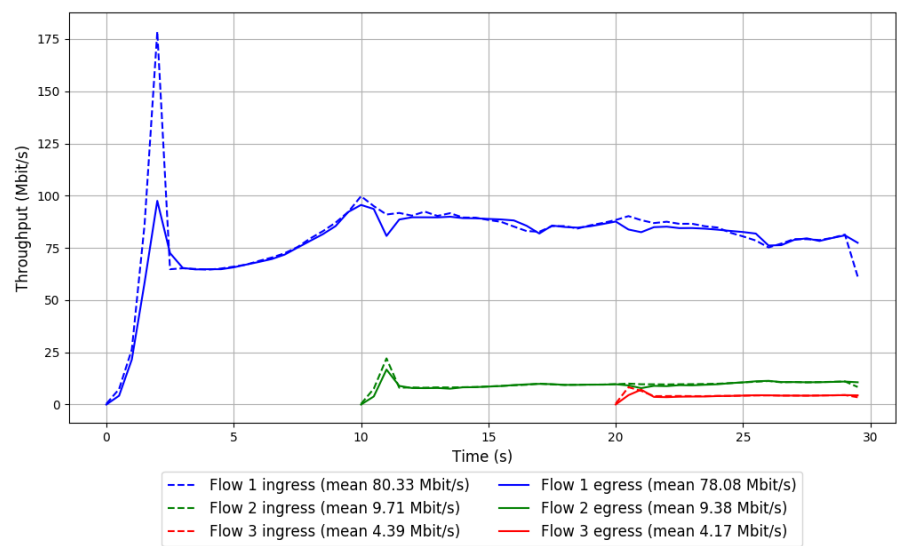


Run 2: Statistics of PCC-Allegro

Start at: 2018-04-17 17:17:54
End at: 2018-04-17 17:18:24
Local clock offset: -5.864 ms
Remote clock offset: 10.664 ms

Below is generated by plot.py at 2018-04-17 20:59:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 85.68 Mbit/s
95th percentile per-packet one-way delay: 159.253 ms
Loss rate: 2.96%
-- Flow 1:
Average throughput: 78.08 Mbit/s
95th percentile per-packet one-way delay: 159.260 ms
Loss rate: 2.88%
-- Flow 2:
Average throughput: 9.38 Mbit/s
95th percentile per-packet one-way delay: 152.308 ms
Loss rate: 3.44%
-- Flow 3:
Average throughput: 4.17 Mbit/s
95th percentile per-packet one-way delay: 133.848 ms
Loss rate: 5.09%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2018-04-17 17:40:11

End at: 2018-04-17 17:40:41

Local clock offset: -5.828 ms

Remote clock offset: 5.777 ms

Below is generated by plot.py at 2018-04-17 20:59:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.42 Mbit/s

95th percentile per-packet one-way delay: 127.972 ms

Loss rate: 2.67%

-- Flow 1:

Average throughput: 78.05 Mbit/s

95th percentile per-packet one-way delay: 127.980 ms

Loss rate: 2.51%

-- Flow 2:

Average throughput: 8.39 Mbit/s

95th percentile per-packet one-way delay: 126.271 ms

Loss rate: 3.37%

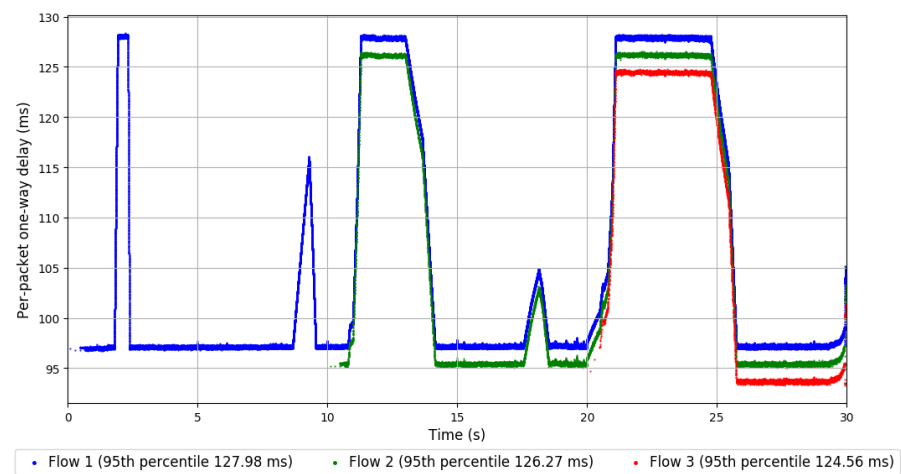
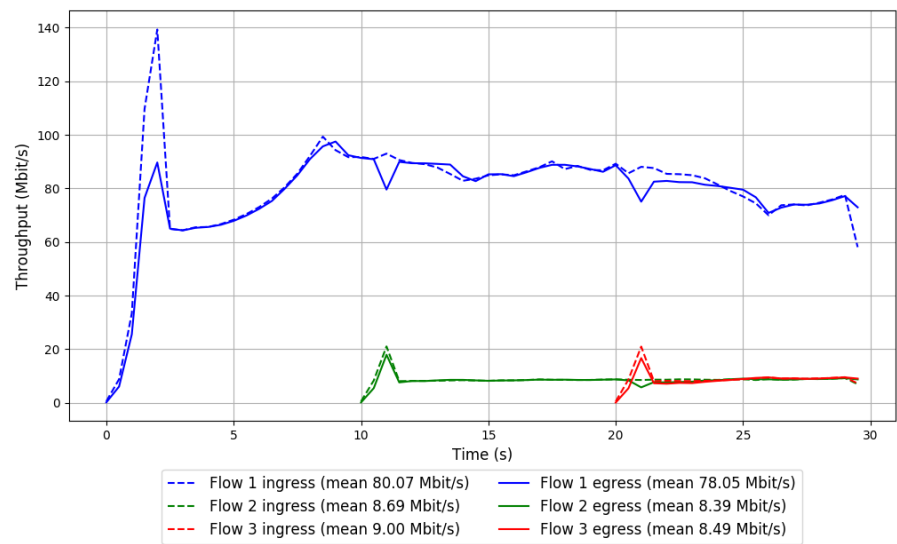
-- Flow 3:

Average throughput: 8.49 Mbit/s

95th percentile per-packet one-way delay: 124.561 ms

Loss rate: 5.52%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2018-04-17 18:02:38

End at: 2018-04-17 18:03:08

Local clock offset: -6.158 ms

Remote clock offset: 5.298 ms

Below is generated by plot.py at 2018-04-17 21:00:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.43 Mbit/s

95th percentile per-packet one-way delay: 132.892 ms

Loss rate: 2.53%

-- Flow 1:

Average throughput: 78.11 Mbit/s

95th percentile per-packet one-way delay: 132.840 ms

Loss rate: 2.45%

-- Flow 2:

Average throughput: 8.30 Mbit/s

95th percentile per-packet one-way delay: 134.286 ms

Loss rate: 2.80%

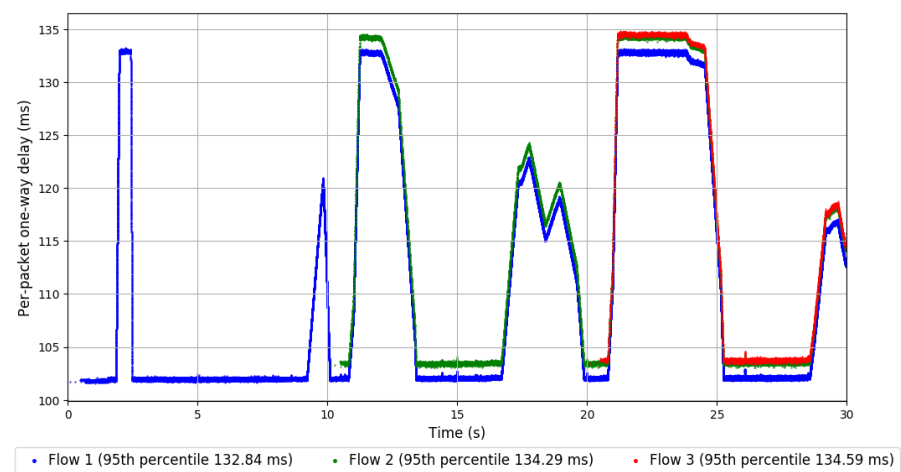
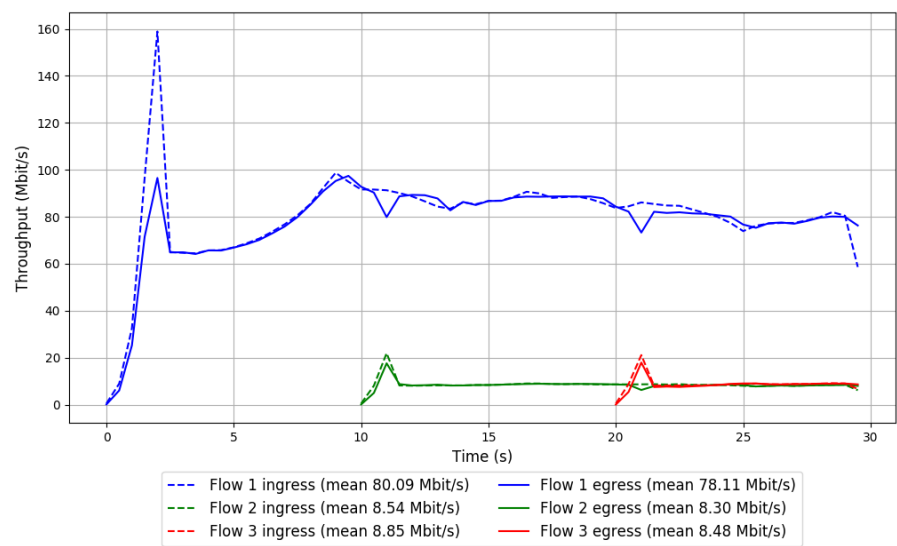
-- Flow 3:

Average throughput: 8.48 Mbit/s

95th percentile per-packet one-way delay: 134.589 ms

Loss rate: 4.07%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2018-04-17 18:25:05

End at: 2018-04-17 18:25:35

Local clock offset: -4.751 ms

Remote clock offset: 5.504 ms

Below is generated by plot.py at 2018-04-17 21:00:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.67 Mbit/s

95th percentile per-packet one-way delay: 127.020 ms

Loss rate: 2.77%

-- Flow 1:

Average throughput: 78.98 Mbit/s

95th percentile per-packet one-way delay: 126.974 ms

Loss rate: 2.62%

-- Flow 2:

Average throughput: 7.63 Mbit/s

95th percentile per-packet one-way delay: 127.775 ms

Loss rate: 3.77%

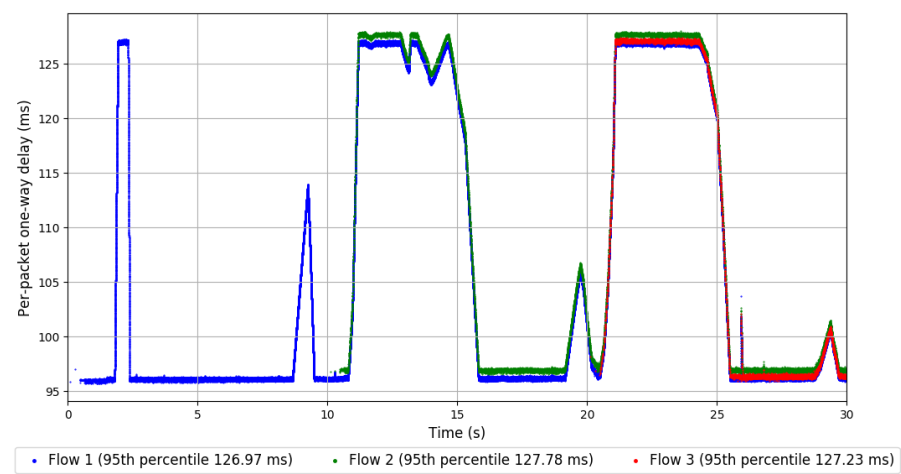
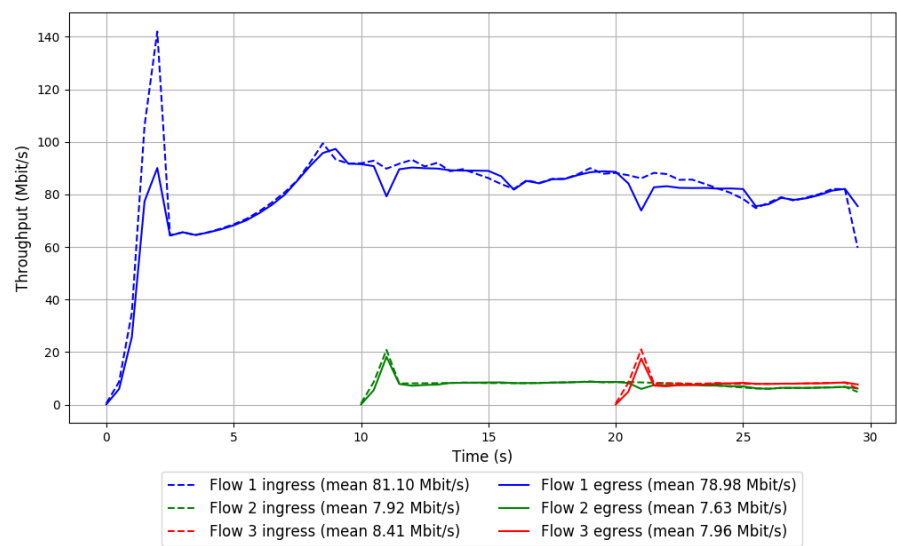
-- Flow 3:

Average throughput: 7.96 Mbit/s

95th percentile per-packet one-way delay: 127.232 ms

Loss rate: 5.35%

Run 5: Report of PCC-Allegro — Data Link



Run 6: Statistics of PCC-Allegro

Start at: 2018-04-17 18:47:29

End at: 2018-04-17 18:47:59

Local clock offset: -4.667 ms

Remote clock offset: 12.33 ms

Below is generated by plot.py at 2018-04-17 21:00:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.58 Mbit/s

95th percentile per-packet one-way delay: 139.351 ms

Loss rate: 3.23%

-- Flow 1:

Average throughput: 78.50 Mbit/s

95th percentile per-packet one-way delay: 139.358 ms

Loss rate: 3.08%

-- Flow 2:

Average throughput: 8.07 Mbit/s

95th percentile per-packet one-way delay: 137.471 ms

Loss rate: 5.05%

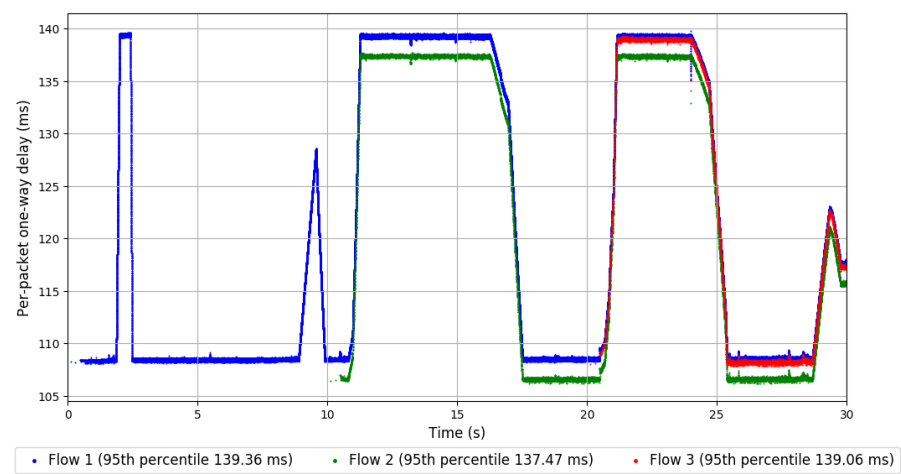
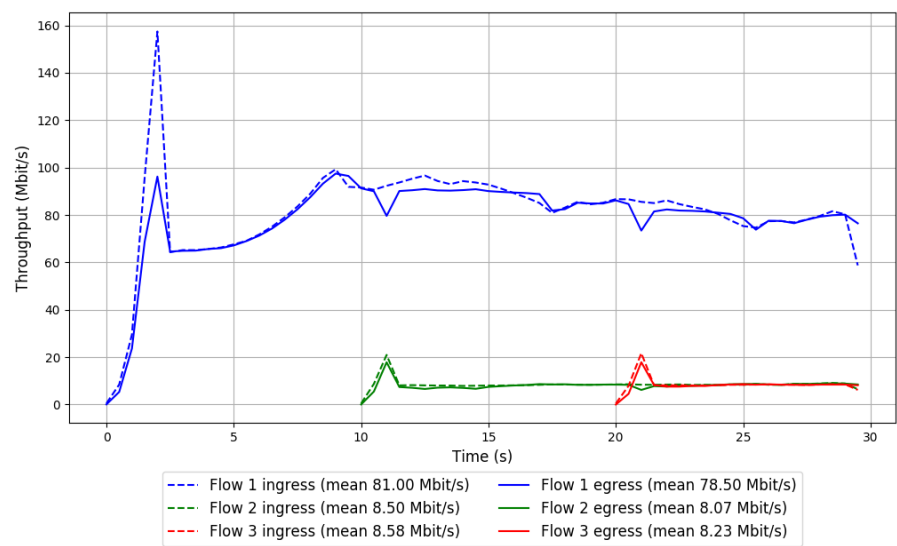
-- Flow 3:

Average throughput: 8.23 Mbit/s

95th percentile per-packet one-way delay: 139.062 ms

Loss rate: 4.04%

Run 6: Report of PCC-Allegro — Data Link



Run 7: Statistics of PCC-Allegro

Start at: 2018-04-17 19:09:45

End at: 2018-04-17 19:10:15

Local clock offset: -5.481 ms

Remote clock offset: 5.97 ms

Below is generated by plot.py at 2018-04-17 21:00:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.98 Mbit/s

95th percentile per-packet one-way delay: 124.957 ms

Loss rate: 4.82%

-- Flow 1:

Average throughput: 75.87 Mbit/s

95th percentile per-packet one-way delay: 124.596 ms

Loss rate: 4.31%

-- Flow 2:

Average throughput: 12.88 Mbit/s

95th percentile per-packet one-way delay: 125.144 ms

Loss rate: 9.37%

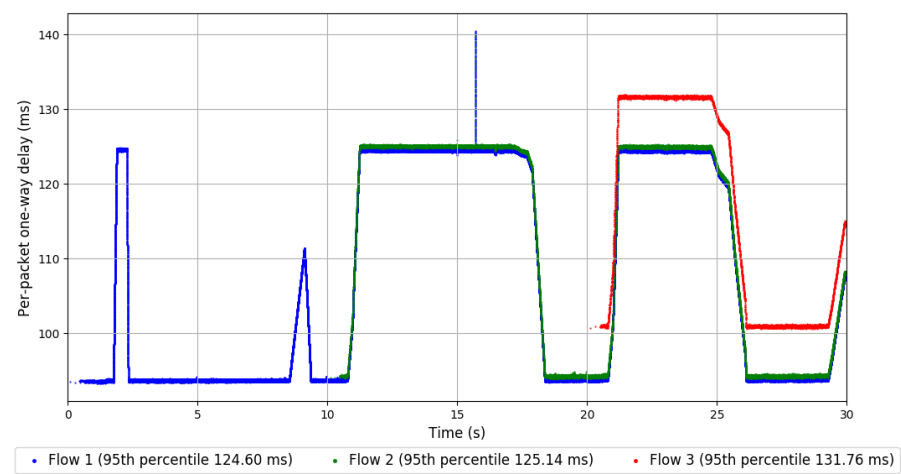
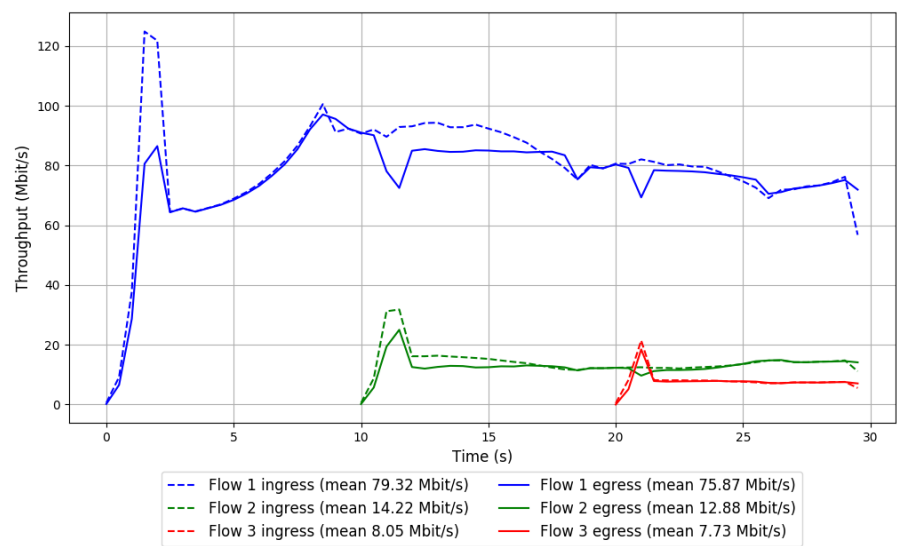
-- Flow 3:

Average throughput: 7.73 Mbit/s

95th percentile per-packet one-way delay: 131.765 ms

Loss rate: 3.90%

Run 7: Report of PCC-Allegro — Data Link



Run 8: Statistics of PCC-Allegro

Start at: 2018-04-17 19:32:24

End at: 2018-04-17 19:32:54

Local clock offset: -4.712 ms

Remote clock offset: 6.829 ms

Below is generated by plot.py at 2018-04-17 21:00:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.36 Mbit/s

95th percentile per-packet one-way delay: 133.752 ms

Loss rate: 2.91%

-- Flow 1:

Average throughput: 77.90 Mbit/s

95th percentile per-packet one-way delay: 133.760 ms

Loss rate: 2.75%

-- Flow 2:

Average throughput: 8.43 Mbit/s

95th percentile per-packet one-way delay: 132.156 ms

Loss rate: 3.78%

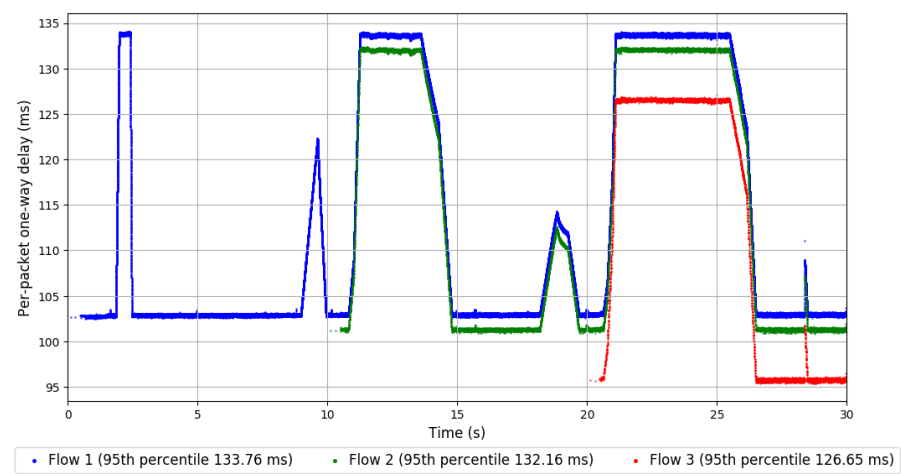
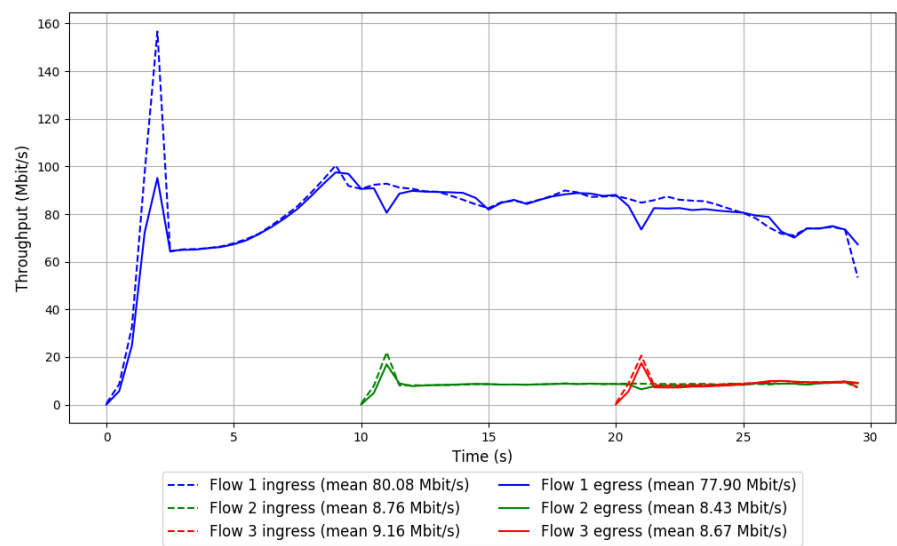
-- Flow 3:

Average throughput: 8.67 Mbit/s

95th percentile per-packet one-way delay: 126.653 ms

Loss rate: 5.37%

Run 8: Report of PCC-Allegro — Data Link

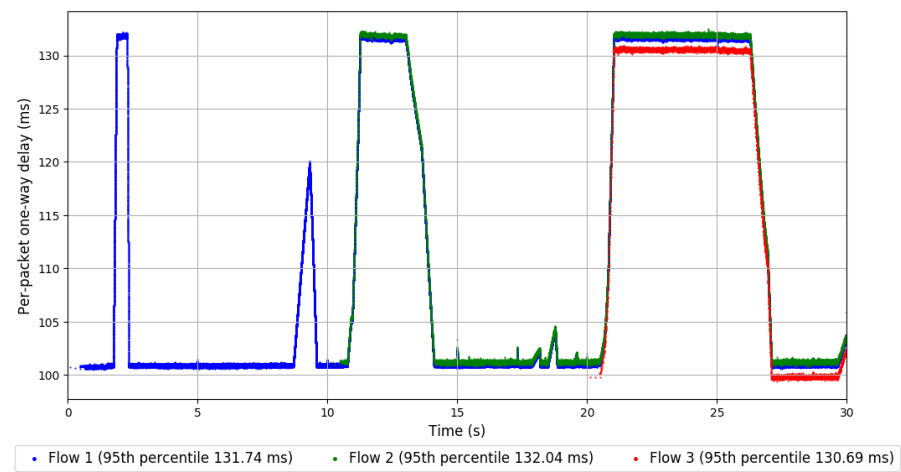
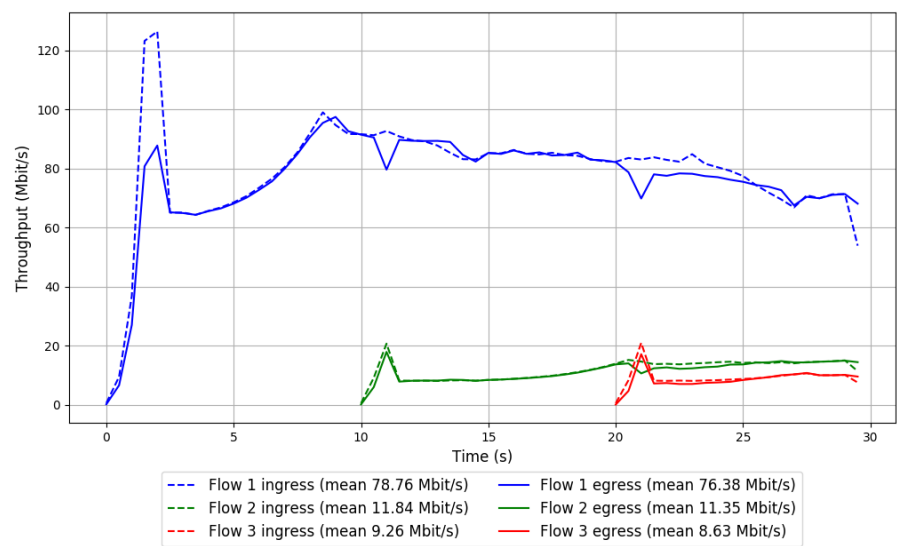


Run 9: Statistics of PCC-Allegro

Start at: 2018-04-17 19:54:39
End at: 2018-04-17 19:55:09
Local clock offset: -6.284 ms
Remote clock offset: 13.172 ms

```
# Below is generated by plot.py at 2018-04-17 21:01:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 86.78 Mbit/s
95th percentile per-packet one-way delay: 131.789 ms
Loss rate: 3.22%
-- Flow 1:
Average throughput: 76.38 Mbit/s
95th percentile per-packet one-way delay: 131.740 ms
Loss rate: 3.00%
-- Flow 2:
Average throughput: 11.35 Mbit/s
95th percentile per-packet one-way delay: 132.044 ms
Loss rate: 4.07%
-- Flow 3:
Average throughput: 8.63 Mbit/s
95th percentile per-packet one-way delay: 130.688 ms
Loss rate: 6.75%
```

Run 9: Report of PCC-Allegro — Data Link

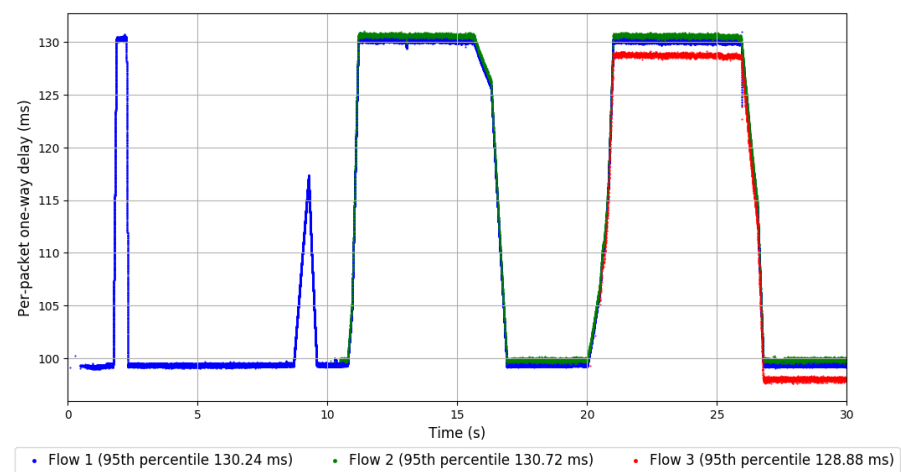
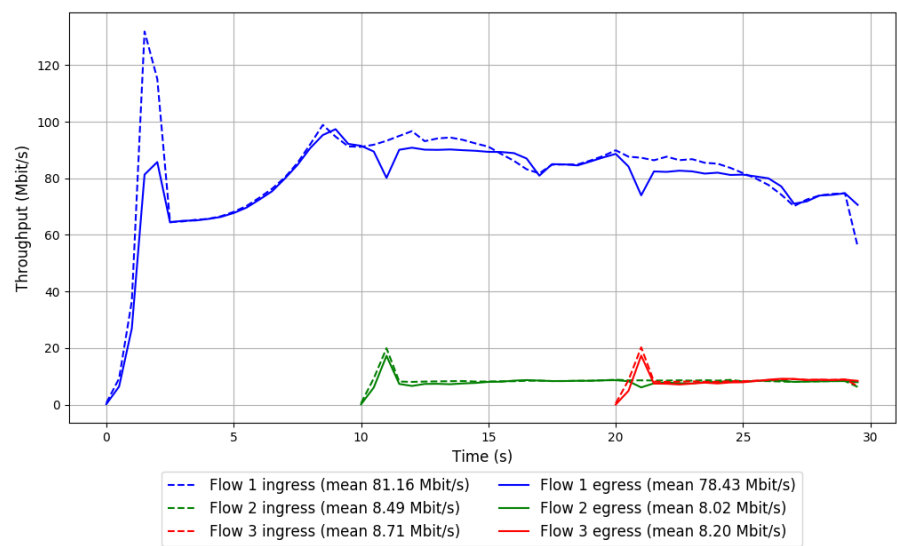


Run 10: Statistics of PCC-Allegro

Start at: 2018-04-17 20:17:15
End at: 2018-04-17 20:17:45
Local clock offset: -5.624 ms
Remote clock offset: 13.225 ms

Below is generated by plot.py at 2018-04-17 21:01:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 86.46 Mbit/s
95th percentile per-packet one-way delay: 130.285 ms
Loss rate: 3.58%
-- Flow 1:
Average throughput: 78.43 Mbit/s
95th percentile per-packet one-way delay: 130.241 ms
Loss rate: 3.36%
-- Flow 2:
Average throughput: 8.02 Mbit/s
95th percentile per-packet one-way delay: 130.721 ms
Loss rate: 5.61%
-- Flow 3:
Average throughput: 8.20 Mbit/s
95th percentile per-packet one-way delay: 128.883 ms
Loss rate: 5.86%

Run 10: Report of PCC-Allegro — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2018-04-17 16:48:53

End at: 2018-04-17 16:49:23

Local clock offset: -2.498 ms

Remote clock offset: 4.94 ms

Below is generated by plot.py at 2018-04-17 21:01:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 62.31 Mbit/s

95th percentile per-packet one-way delay: 123.878 ms

Loss rate: 0.49%

-- Flow 1:

Average throughput: 45.22 Mbit/s

95th percentile per-packet one-way delay: 124.528 ms

Loss rate: 0.51%

-- Flow 2:

Average throughput: 18.27 Mbit/s

95th percentile per-packet one-way delay: 114.545 ms

Loss rate: 0.34%

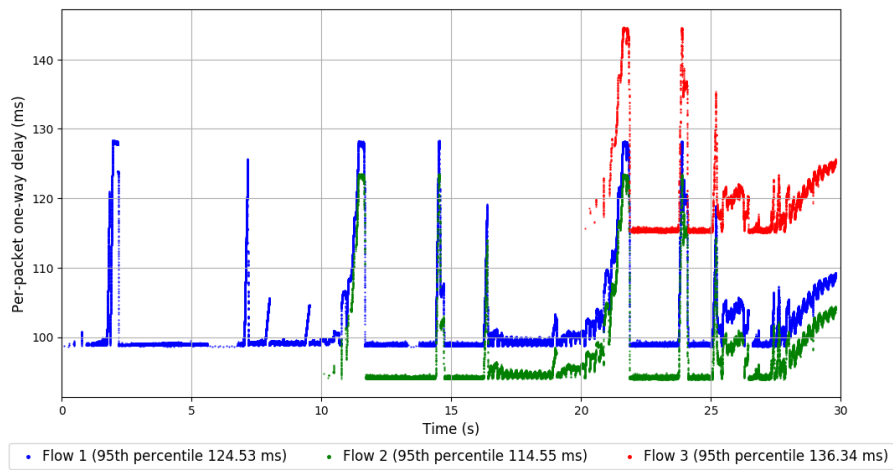
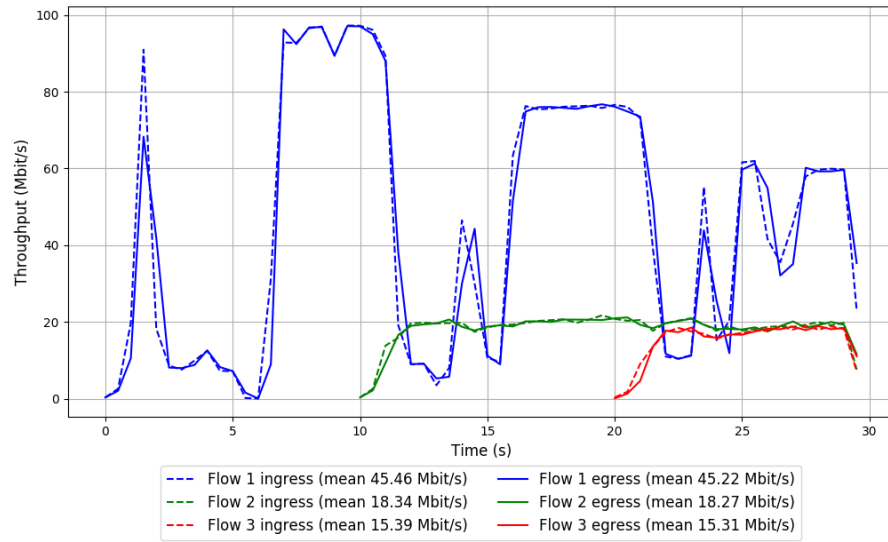
-- Flow 3:

Average throughput: 15.31 Mbit/s

95th percentile per-packet one-way delay: 136.336 ms

Loss rate: 0.65%

Run 1: Report of QUIC Cubic — Data Link

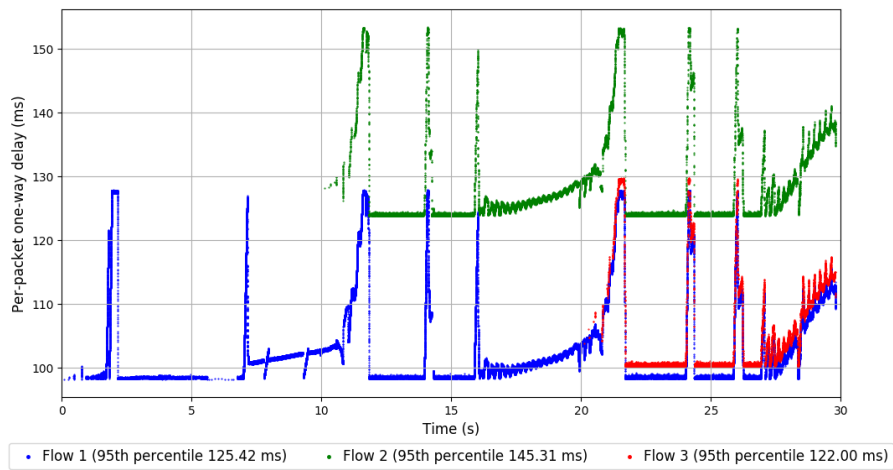
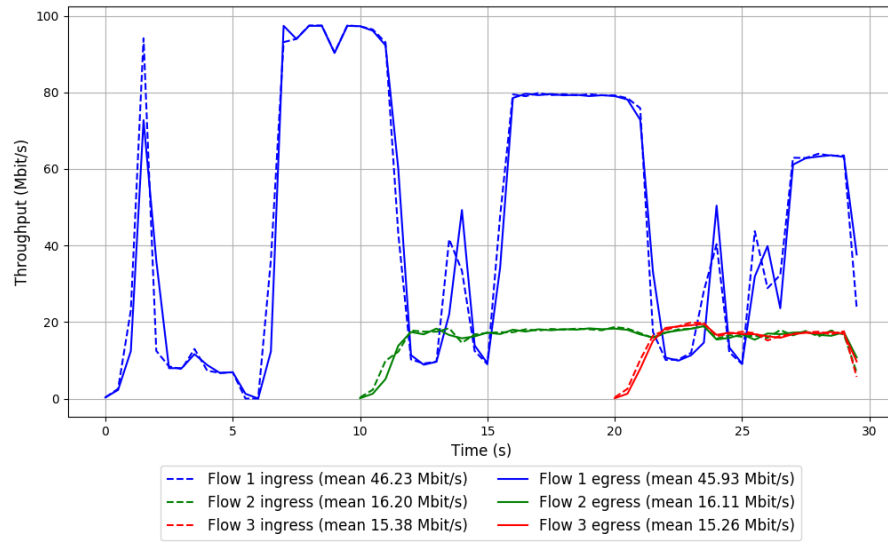


Run 2: Statistics of QUIC Cubic

Start at: 2018-04-17 17:11:26
End at: 2018-04-17 17:11:56
Local clock offset: -4.972 ms
Remote clock offset: 10.557 ms

Below is generated by plot.py at 2018-04-17 21:01:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 61.57 Mbit/s
95th percentile per-packet one-way delay: 128.343 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 45.93 Mbit/s
95th percentile per-packet one-way delay: 125.422 ms
Loss rate: 0.60%
-- Flow 2:
Average throughput: 16.11 Mbit/s
95th percentile per-packet one-way delay: 145.315 ms
Loss rate: 0.66%
-- Flow 3:
Average throughput: 15.26 Mbit/s
95th percentile per-packet one-way delay: 121.998 ms
Loss rate: 0.67%

Run 2: Report of QUIC Cubic — Data Link

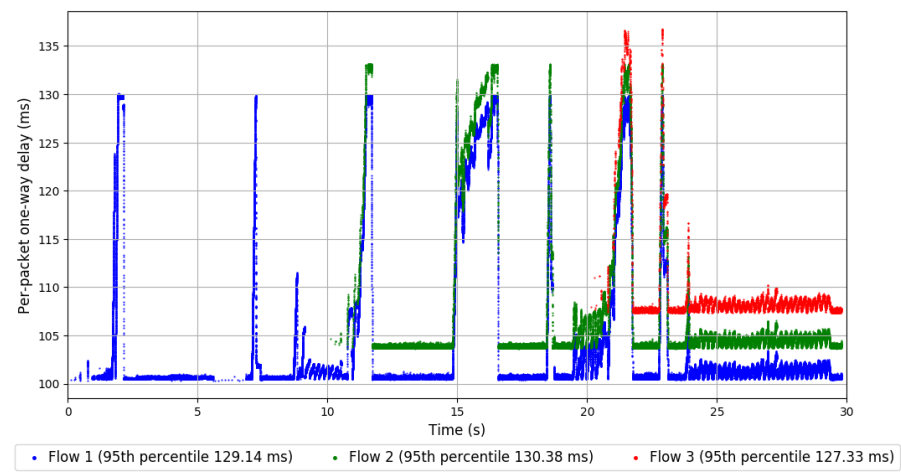
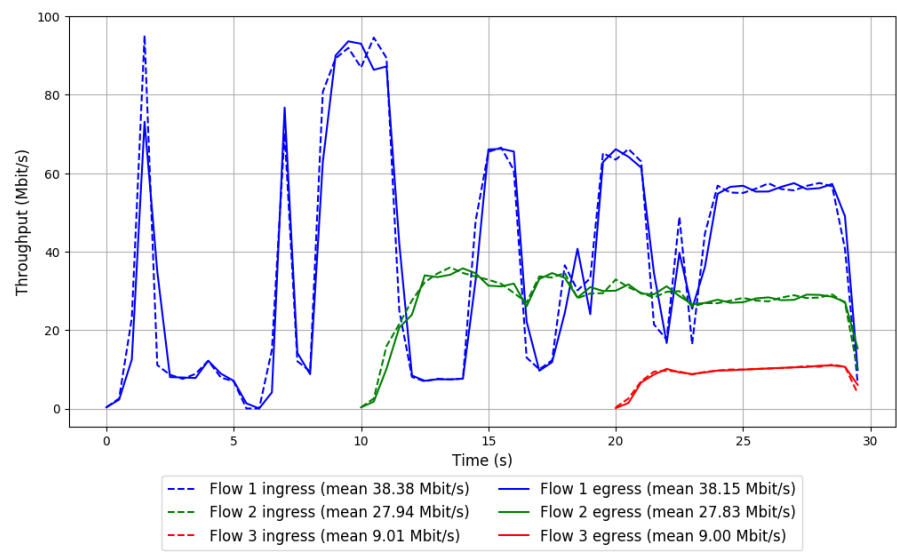


Run 3: Statistics of QUIC Cubic

Start at: 2018-04-17 17:33:45
End at: 2018-04-17 17:34:15
Local clock offset: -5.818 ms
Remote clock offset: 12.055 ms

Below is generated by plot.py at 2018-04-17 21:01:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 59.52 Mbit/s
95th percentile per-packet one-way delay: 129.373 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 38.15 Mbit/s
95th percentile per-packet one-way delay: 129.137 ms
Loss rate: 0.62%
-- Flow 2:
Average throughput: 27.83 Mbit/s
95th percentile per-packet one-way delay: 130.379 ms
Loss rate: 0.42%
-- Flow 3:
Average throughput: 9.00 Mbit/s
95th percentile per-packet one-way delay: 127.329 ms
Loss rate: 0.17%

Run 3: Report of QUIC Cubic — Data Link

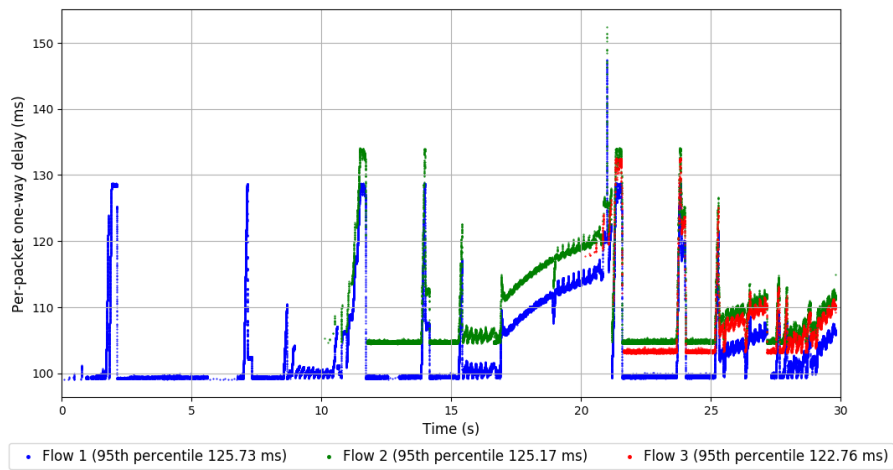
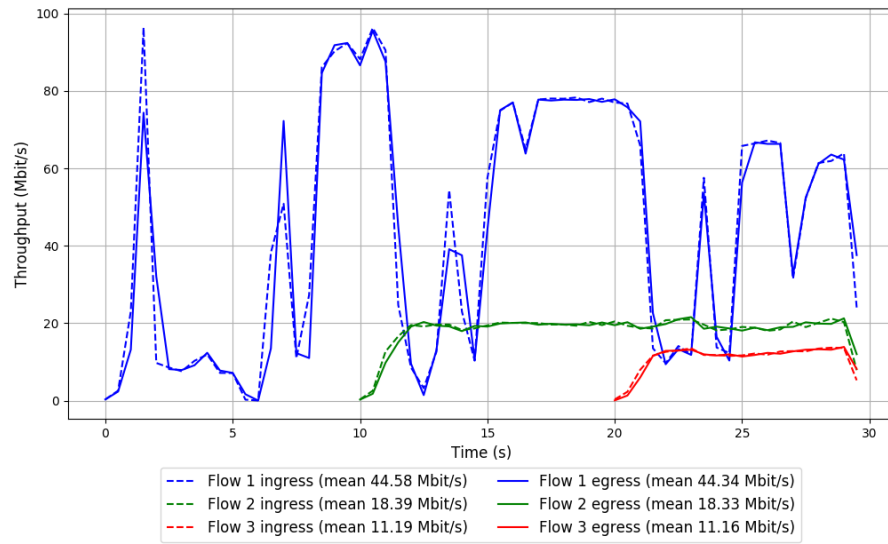


Run 4: Statistics of QUIC Cubic

Start at: 2018-04-17 17:56:11
End at: 2018-04-17 17:56:41
Local clock offset: -5.899 ms
Remote clock offset: 11.375 ms

Below is generated by plot.py at 2018-04-17 21:01:16
Datalink statistics
-- Total of 3 flows:
Average throughput: 60.11 Mbit/s
95th percentile per-packet one-way delay: 125.280 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 44.34 Mbit/s
95th percentile per-packet one-way delay: 125.734 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 18.33 Mbit/s
95th percentile per-packet one-way delay: 125.175 ms
Loss rate: 0.30%
-- Flow 3:
Average throughput: 11.16 Mbit/s
95th percentile per-packet one-way delay: 122.759 ms
Loss rate: 0.44%

Run 4: Report of QUIC Cubic — Data Link

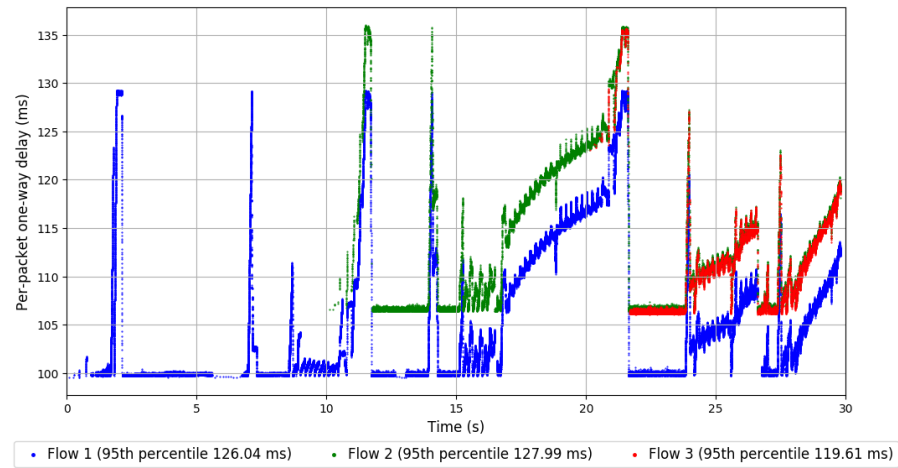
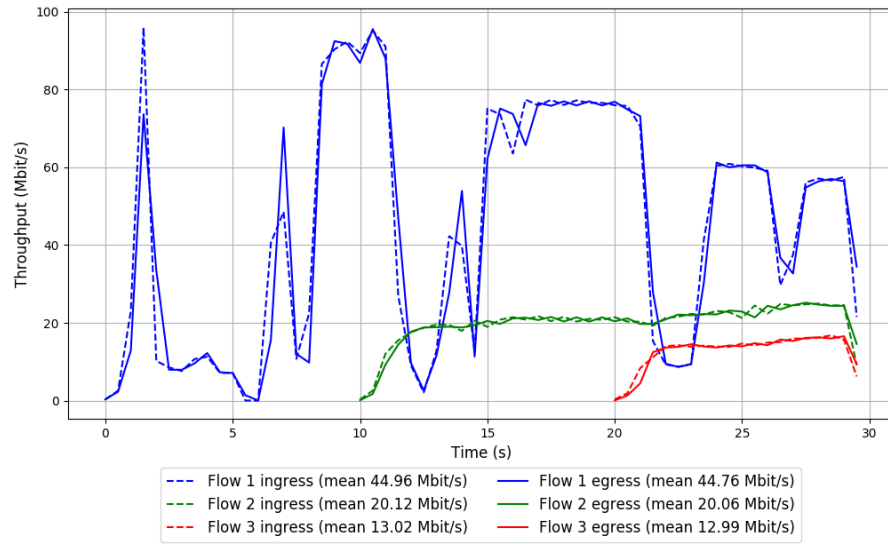


Run 5: Statistics of QUIC Cubic

Start at: 2018-04-17 18:18:37
End at: 2018-04-17 18:19:07
Local clock offset: -4.951 ms
Remote clock offset: 10.442 ms

Below is generated by plot.py at 2018-04-17 21:01:41
Datalink statistics
-- Total of 3 flows:
Average throughput: 62.27 Mbit/s
95th percentile per-packet one-way delay: 126.079 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 44.76 Mbit/s
95th percentile per-packet one-way delay: 126.042 ms
Loss rate: 0.40%
-- Flow 2:
Average throughput: 20.06 Mbit/s
95th percentile per-packet one-way delay: 127.991 ms
Loss rate: 0.23%
-- Flow 3:
Average throughput: 12.99 Mbit/s
95th percentile per-packet one-way delay: 119.609 ms
Loss rate: 0.38%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-04-17 18:41:03

End at: 2018-04-17 18:41:33

Local clock offset: -6.102 ms

Remote clock offset: 5.607 ms

Below is generated by plot.py at 2018-04-17 21:01:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 63.06 Mbit/s

95th percentile per-packet one-way delay: 123.542 ms

Loss rate: 0.63%

-- Flow 1:

Average throughput: 37.85 Mbit/s

95th percentile per-packet one-way delay: 122.011 ms

Loss rate: 0.72%

-- Flow 2:

Average throughput: 31.13 Mbit/s

95th percentile per-packet one-way delay: 121.154 ms

Loss rate: 0.45%

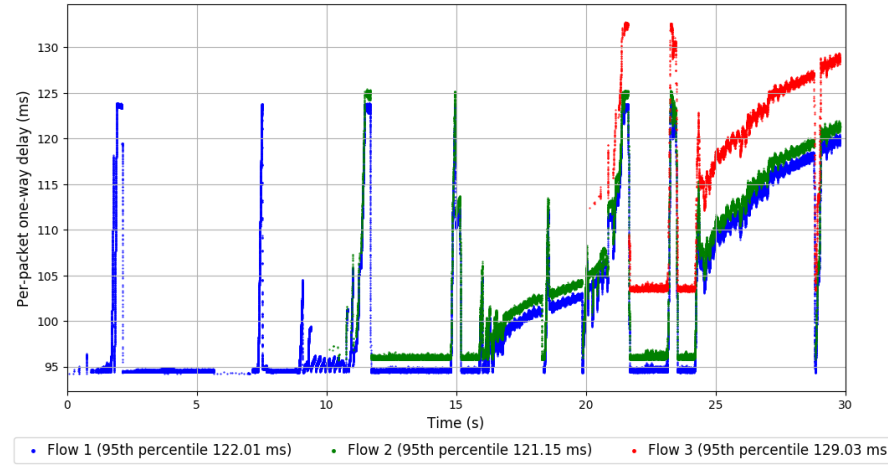
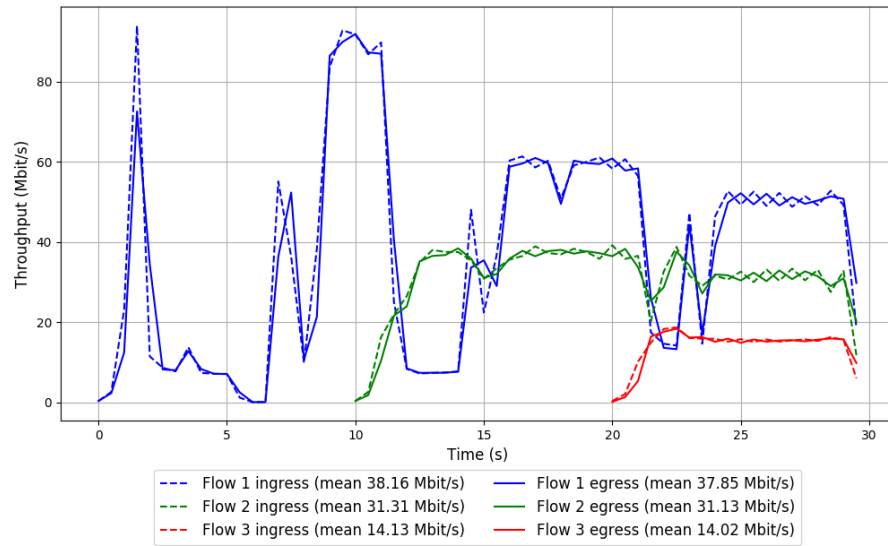
-- Flow 3:

Average throughput: 14.02 Mbit/s

95th percentile per-packet one-way delay: 129.029 ms

Loss rate: 0.69%

Run 6: Report of QUIC Cubic — Data Link

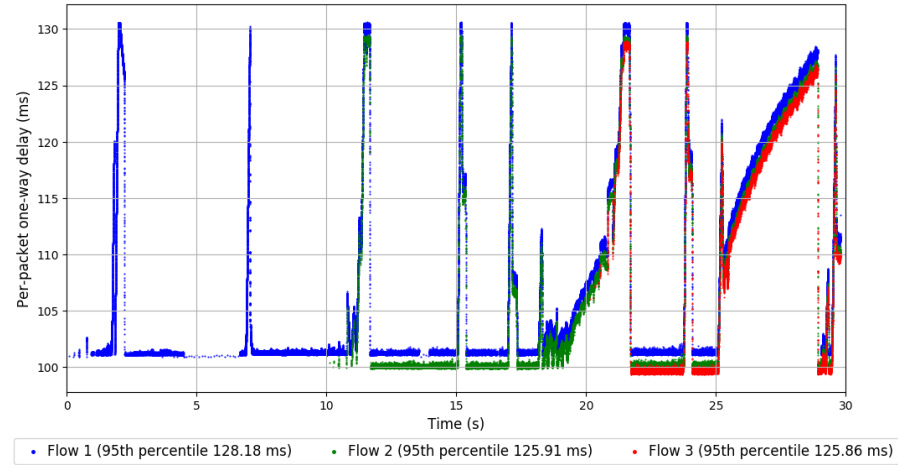
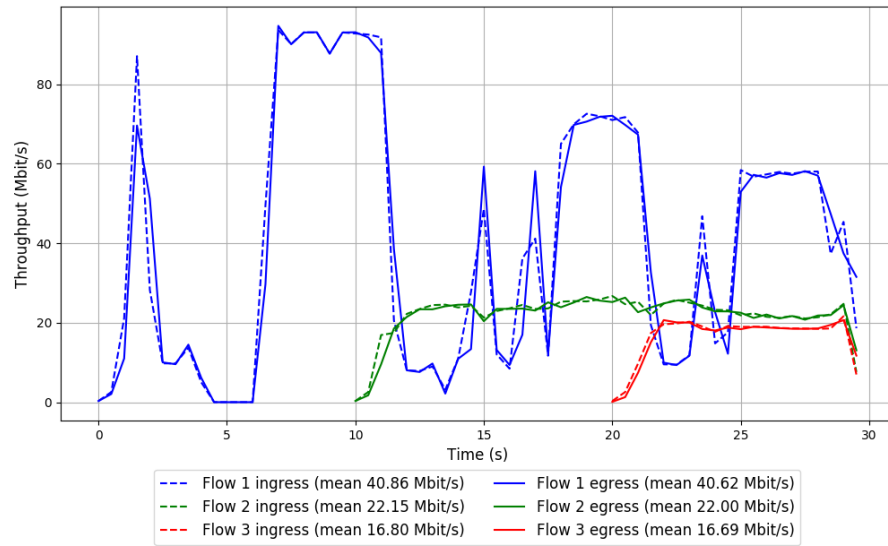


Run 7: Statistics of QUIC Cubic

Start at: 2018-04-17 19:03:16
End at: 2018-04-17 19:03:46
Local clock offset: -5.529 ms
Remote clock offset: 11.774 ms

Below is generated by plot.py at 2018-04-17 21:02:25
Datalink statistics
-- Total of 3 flows:
Average throughput: 60.62 Mbit/s
95th percentile per-packet one-way delay: 127.597 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 40.62 Mbit/s
95th percentile per-packet one-way delay: 128.176 ms
Loss rate: 0.55%
-- Flow 2:
Average throughput: 22.00 Mbit/s
95th percentile per-packet one-way delay: 125.909 ms
Loss rate: 0.66%
-- Flow 3:
Average throughput: 16.69 Mbit/s
95th percentile per-packet one-way delay: 125.861 ms
Loss rate: 0.61%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-04-17 19:25:58

End at: 2018-04-17 19:26:28

Local clock offset: -5.419 ms

Remote clock offset: 5.901 ms

Below is generated by plot.py at 2018-04-17 21:02:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 56.04 Mbit/s

95th percentile per-packet one-way delay: 120.437 ms

Loss rate: 0.83%

-- Flow 1:

Average throughput: 42.08 Mbit/s

95th percentile per-packet one-way delay: 120.729 ms

Loss rate: 0.87%

-- Flow 2:

Average throughput: 7.34 Mbit/s

95th percentile per-packet one-way delay: 114.711 ms

Loss rate: 0.41%

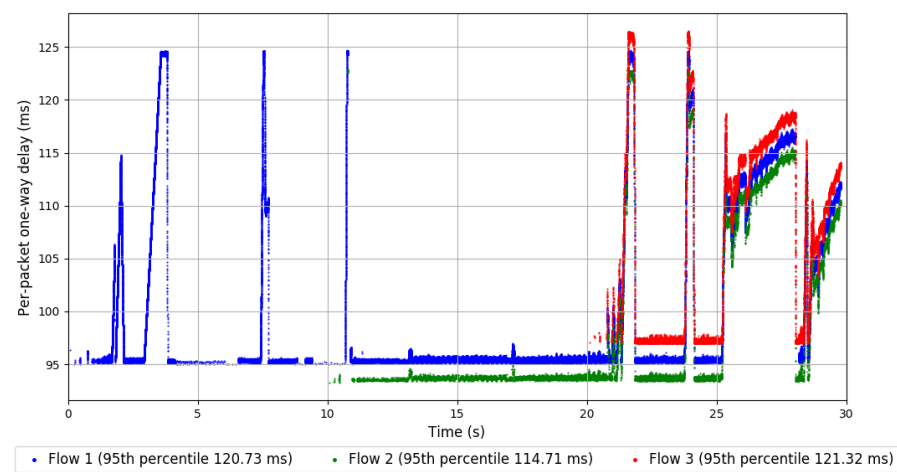
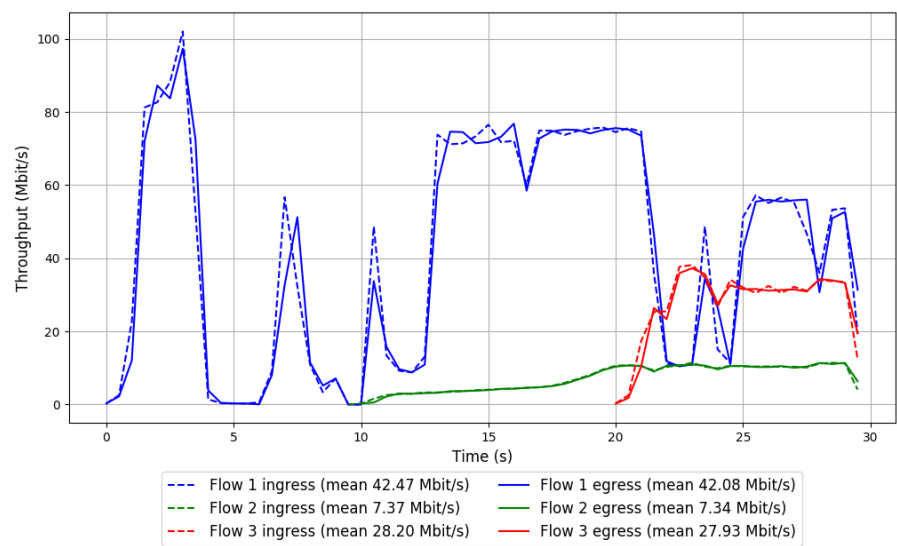
-- Flow 3:

Average throughput: 27.93 Mbit/s

95th percentile per-packet one-way delay: 121.317 ms

Loss rate: 0.83%

Run 8: Report of QUIC Cubic — Data Link

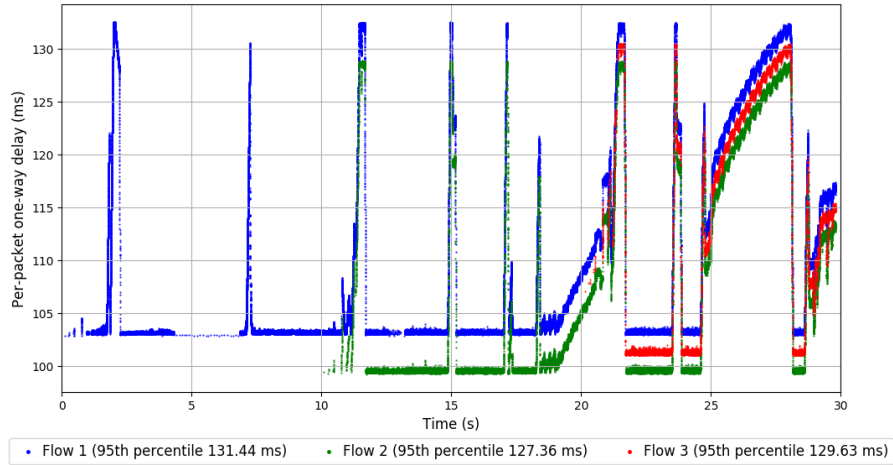
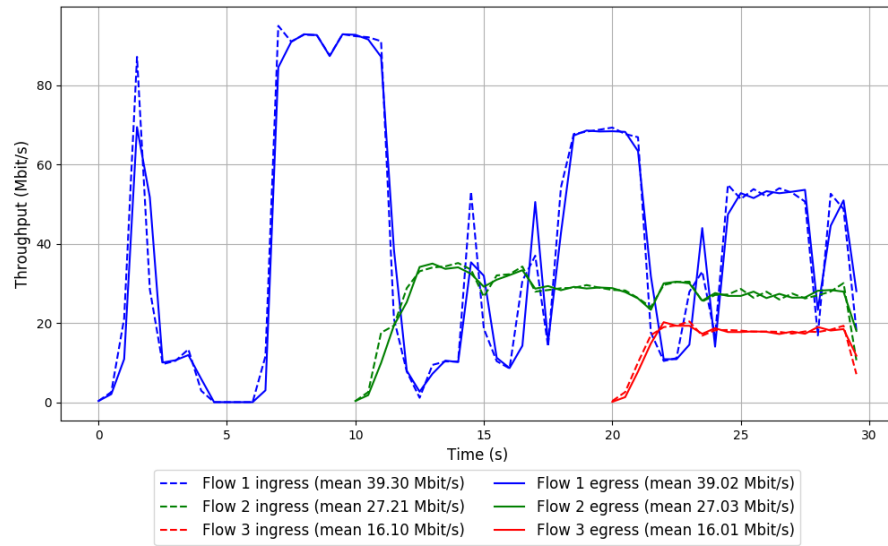


Run 9: Statistics of QUIC Cubic

Start at: 2018-04-17 19:48:11
End at: 2018-04-17 19:48:41
Local clock offset: -5.342 ms
Remote clock offset: 13.655 ms

Below is generated by plot.py at 2018-04-17 21:02:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 62.15 Mbit/s
95th percentile per-packet one-way delay: 130.360 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 39.02 Mbit/s
95th percentile per-packet one-way delay: 131.443 ms
Loss rate: 0.68%
-- Flow 2:
Average throughput: 27.03 Mbit/s
95th percentile per-packet one-way delay: 127.362 ms
Loss rate: 0.60%
-- Flow 3:
Average throughput: 16.01 Mbit/s
95th percentile per-packet one-way delay: 129.628 ms
Loss rate: 0.46%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-04-17 20:10:47

End at: 2018-04-17 20:11:17

Local clock offset: -7.312 ms

Remote clock offset: 8.96 ms

Below is generated by plot.py at 2018-04-17 21:02:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 64.22 Mbit/s

95th percentile per-packet one-way delay: 120.229 ms

Loss rate: 0.37%

-- Flow 1:

Average throughput: 39.60 Mbit/s

95th percentile per-packet one-way delay: 120.425 ms

Loss rate: 0.34%

-- Flow 2:

Average throughput: 29.16 Mbit/s

95th percentile per-packet one-way delay: 119.959 ms

Loss rate: 0.42%

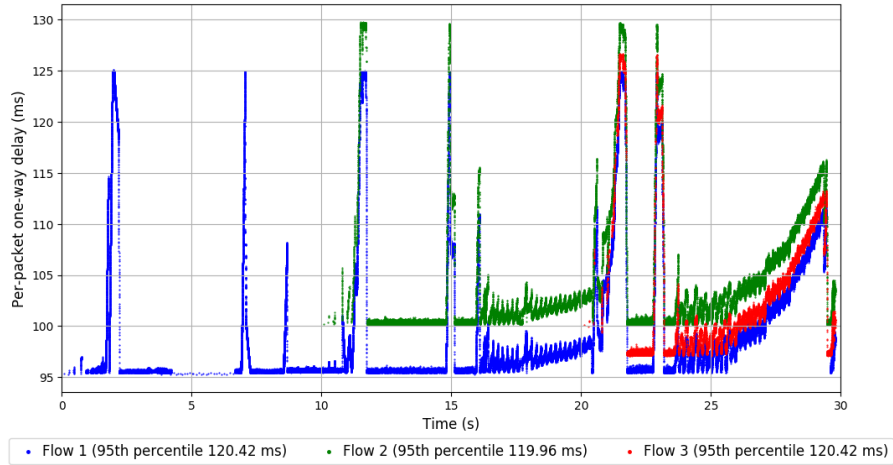
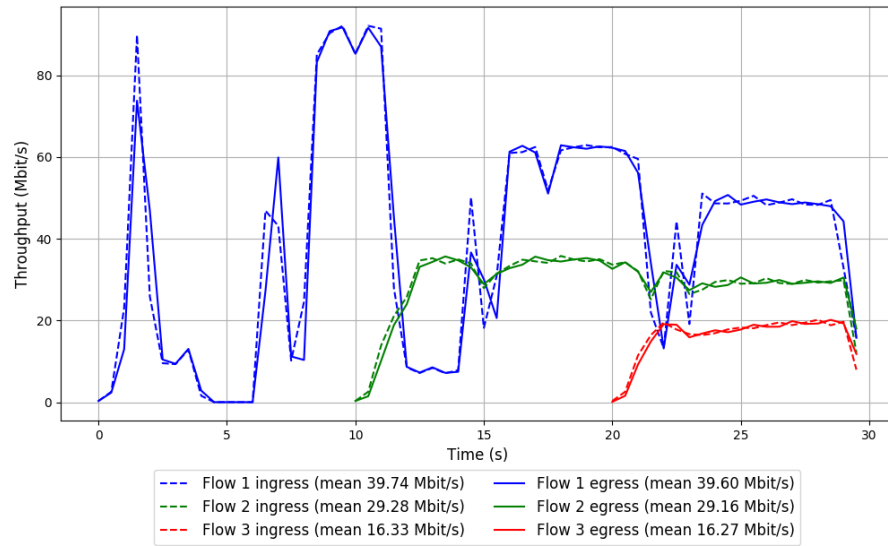
-- Flow 3:

Average throughput: 16.27 Mbit/s

95th percentile per-packet one-way delay: 120.415 ms

Loss rate: 0.37%

Run 10: Report of QUIC Cubic — Data Link

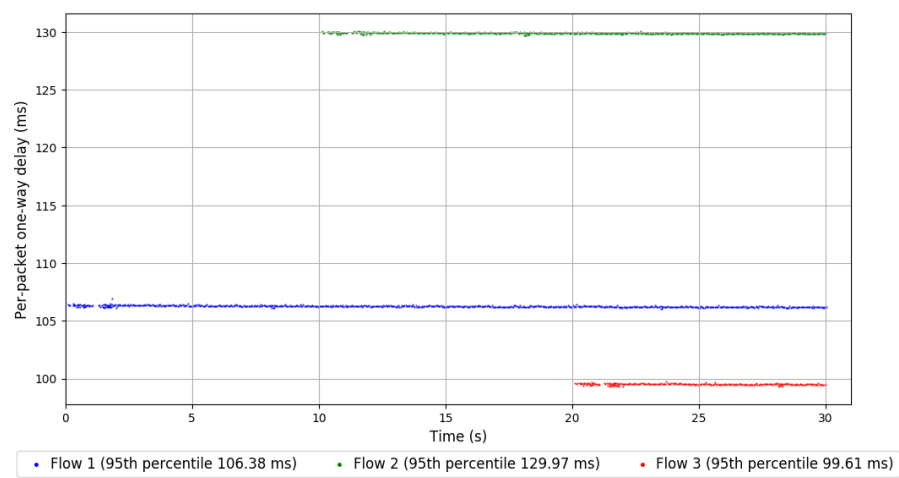
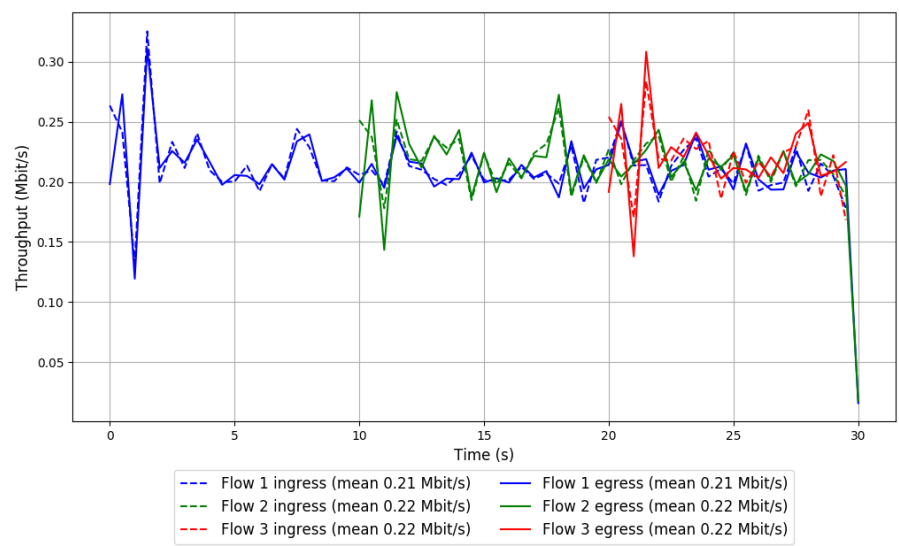


Run 1: Statistics of SReAM

Start at: 2018-04-17 16:50:12
End at: 2018-04-17 16:50:42
Local clock offset: -3.632 ms
Remote clock offset: 9.958 ms

Below is generated by plot.py at 2018-04-17 21:02:34
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 129.934 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 106.375 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 129.969 ms
Loss rate: 0.19%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 99.607 ms
Loss rate: 0.00%

Run 1: Report of SCReAM — Data Link

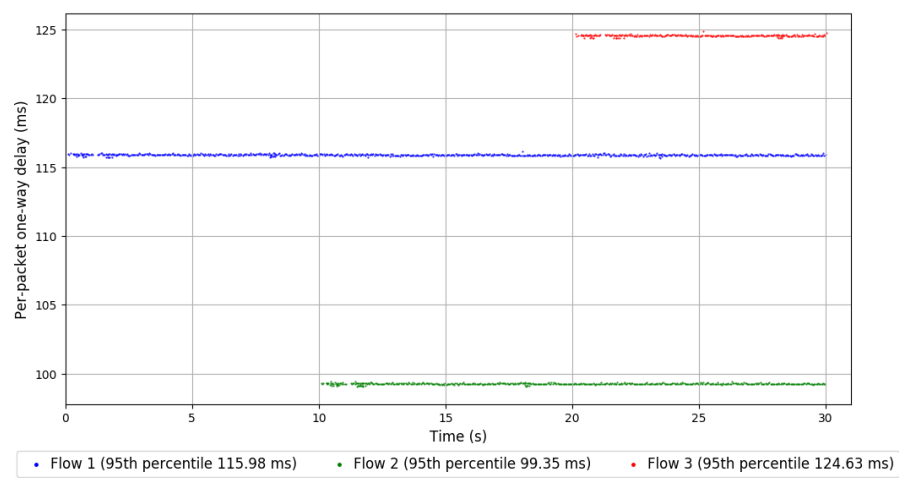
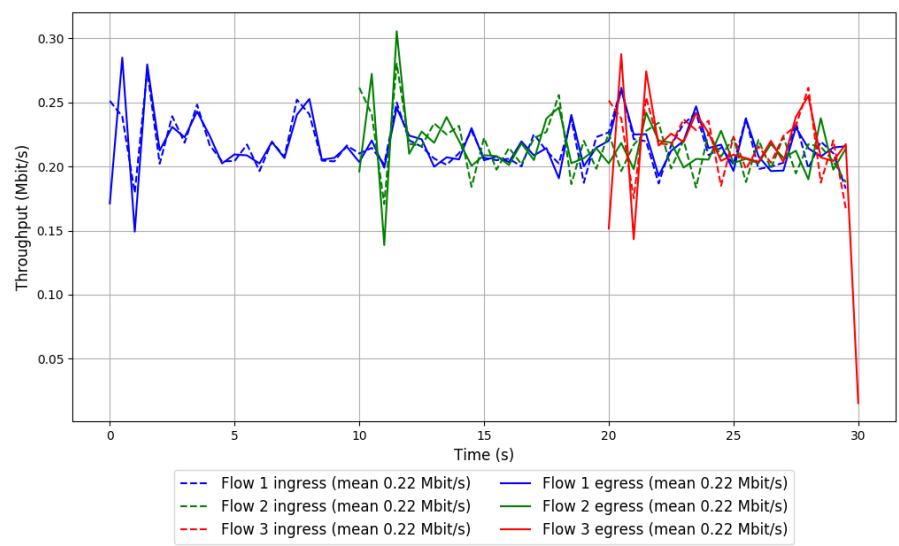


Run 2: Statistics of SReAM

Start at: 2018-04-17 17:12:44
End at: 2018-04-17 17:13:14
Local clock offset: -5.845 ms
Remote clock offset: 4.962 ms

Below is generated by plot.py at 2018-04-17 21:02:34
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 124.574 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 115.978 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 99.348 ms
Loss rate: 0.19%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 124.627 ms
Loss rate: 0.00%

Run 2: Report of SCRaM — Data Link

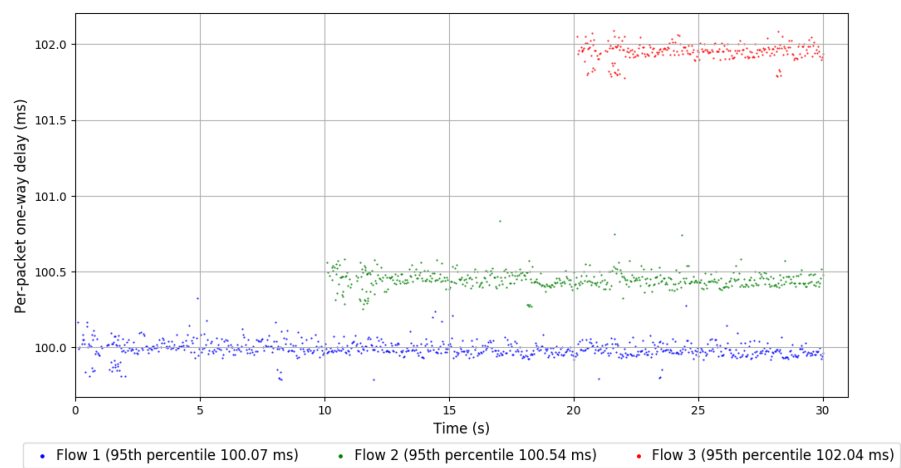
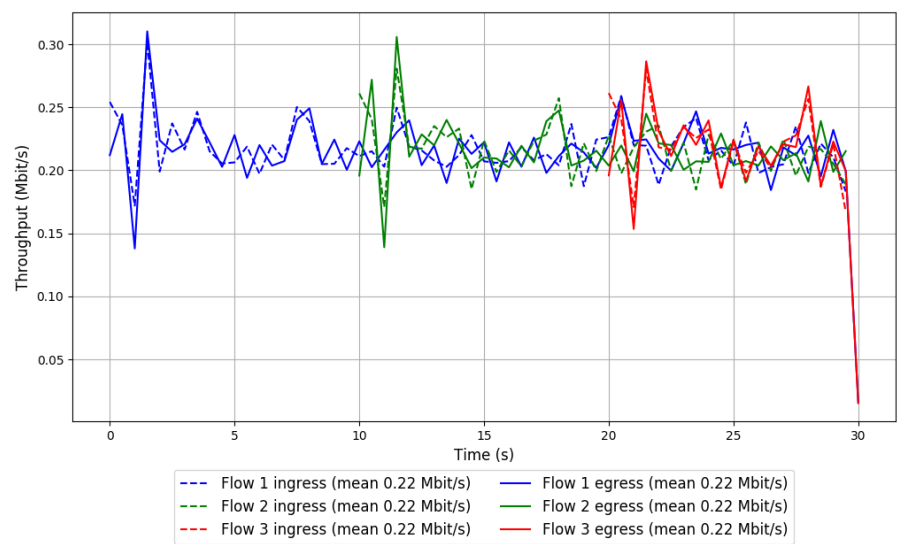


Run 3: Statistics of SReAM

Start at: 2018-04-17 17:35:03
End at: 2018-04-17 17:35:33
Local clock offset: -5.063 ms
Remote clock offset: 11.213 ms

Below is generated by plot.py at 2018-04-17 21:02:34
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 101.977 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 100.074 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 100.538 ms
Loss rate: 0.19%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 102.040 ms
Loss rate: 0.00%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SReAM

Start at: 2018-04-17 17:57:29

End at: 2018-04-17 17:57:59

Local clock offset: -4.942 ms

Remote clock offset: 6.435 ms

Below is generated by plot.py at 2018-04-17 21:02:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 98.988 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 99.012 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 93.752 ms

Loss rate: 0.00%

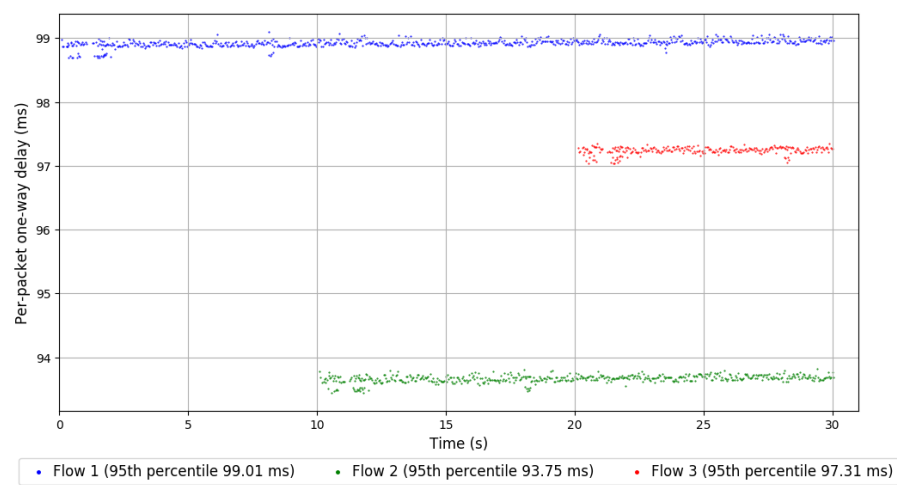
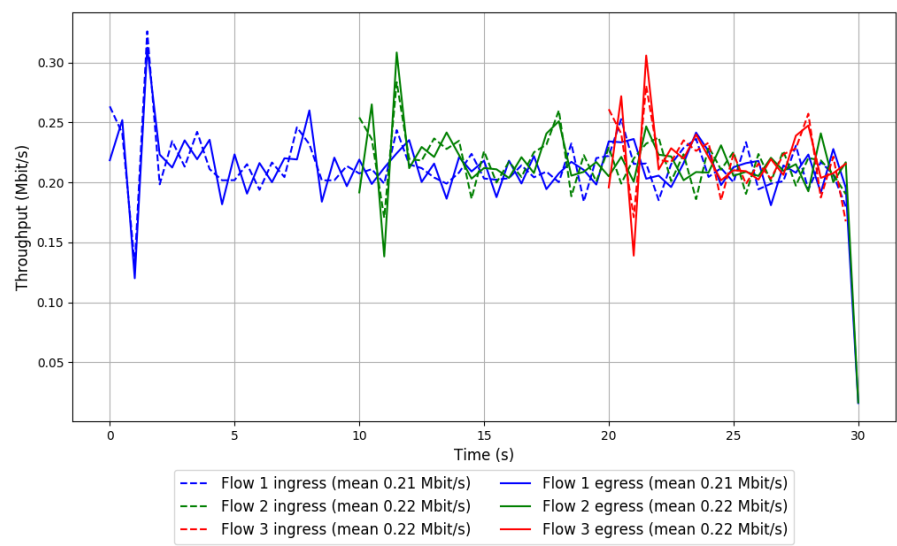
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 97.307 ms

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link

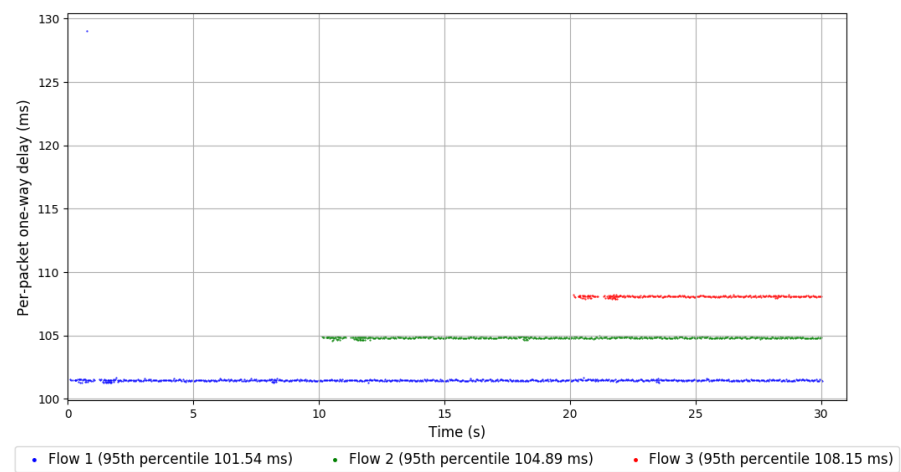
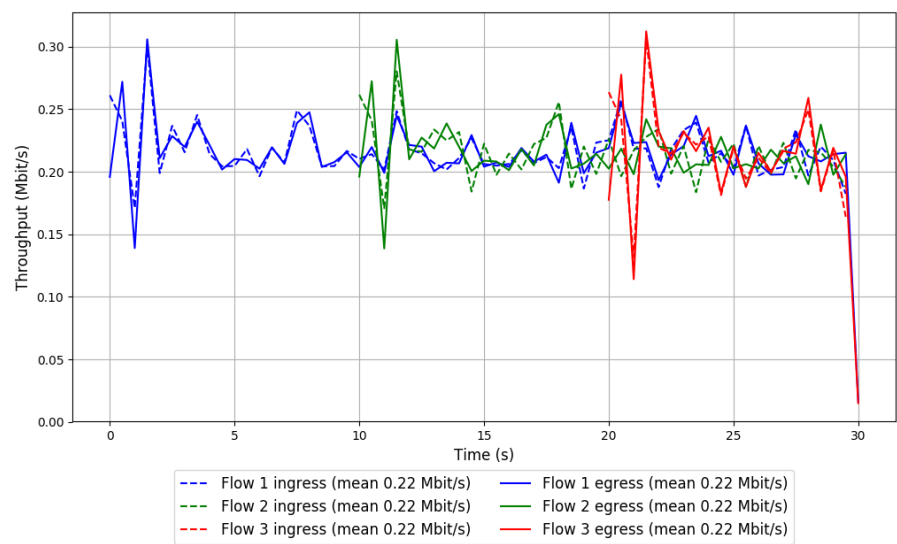


Run 5: Statistics of SReAM

Start at: 2018-04-17 18:19:55
End at: 2018-04-17 18:20:25
Local clock offset: -4.918 ms
Remote clock offset: 10.438 ms

Below is generated by plot.py at 2018-04-17 21:02:34
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 108.106 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 101.536 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 104.889 ms
Loss rate: 0.19%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 108.151 ms
Loss rate: 0.00%

Run 5: Report of SCReAM — Data Link

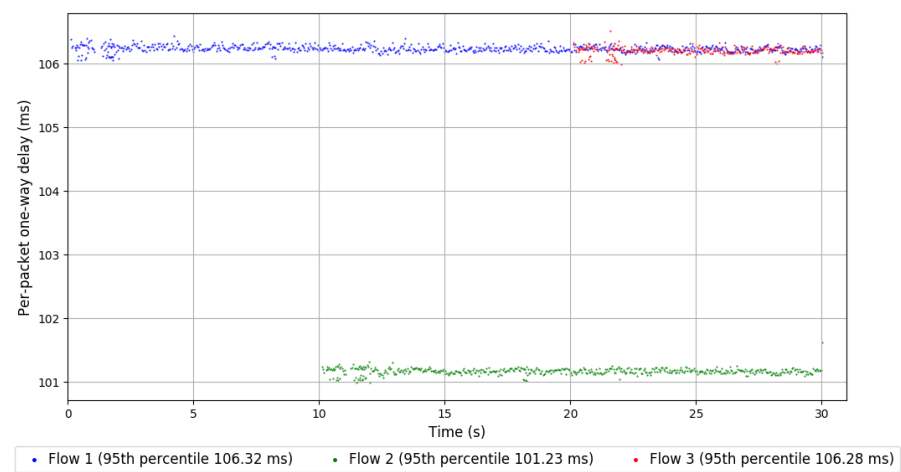
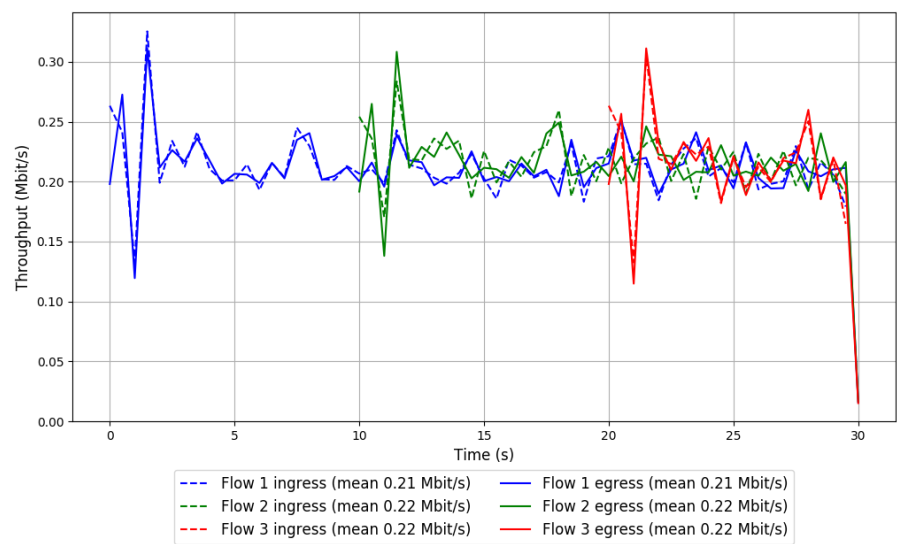


Run 6: Statistics of SReAM

Start at: 2018-04-17 18:42:21
End at: 2018-04-17 18:42:51
Local clock offset: -4.576 ms
Remote clock offset: 12.262 ms

Below is generated by plot.py at 2018-04-17 21:02:34
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 106.306 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 106.320 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 101.231 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 106.285 ms
Loss rate: 0.00%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SReAM

Start at: 2018-04-17 19:04:35

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

Local clock offset: -4.742 ms

Remote clock offset: 6.853 ms

Below is generated by plot.py at 2018-04-17 21:02:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 102.736 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 102.749 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 95.323 ms

Loss rate: 0.19%

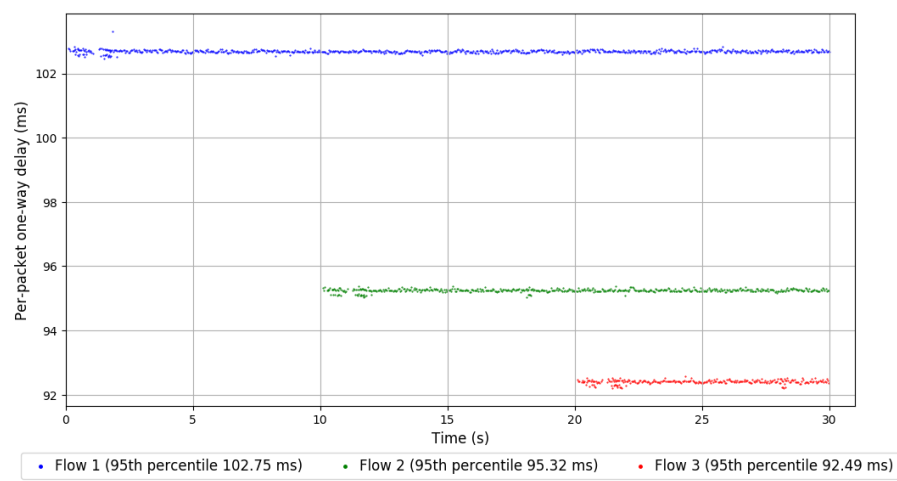
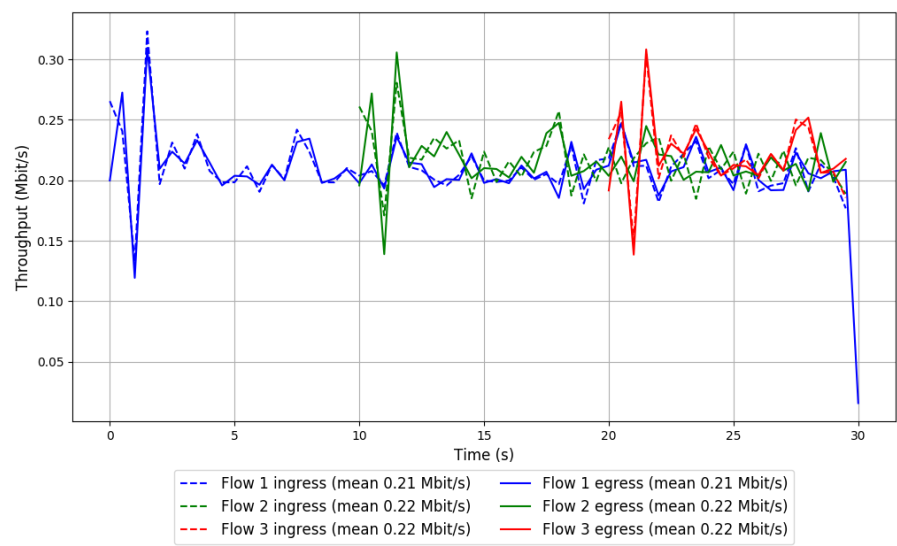
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 92.492 ms

Loss rate: 0.00%

Run 7: Report of SReAM — Data Link

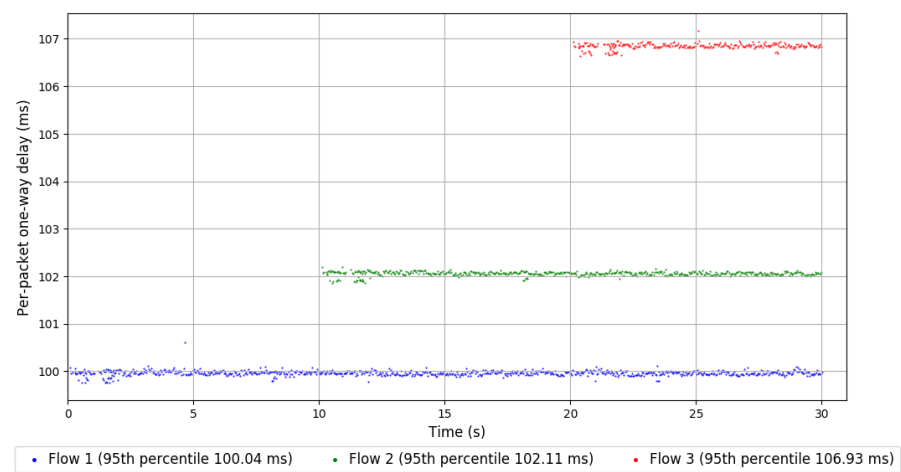
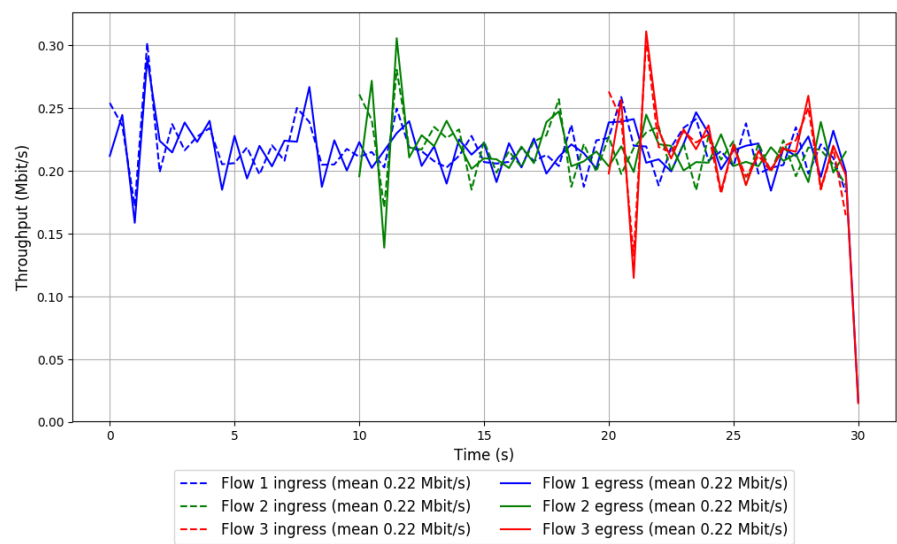


Run 8: Statistics of SReAM

Start at: 2018-04-17 19:27:16
End at: 2018-04-17 19:27:46
Local clock offset: -6.223 ms
Remote clock offset: 11.564 ms

Below is generated by plot.py at 2018-04-17 21:02:34
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 106.876 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 100.037 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 102.114 ms
Loss rate: 0.19%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 106.929 ms
Loss rate: 0.00%

Run 8: Report of SReAM — Data Link

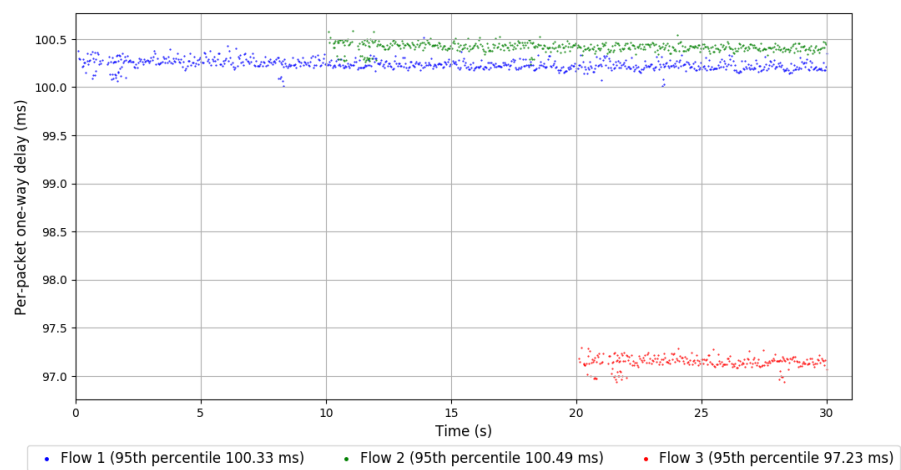
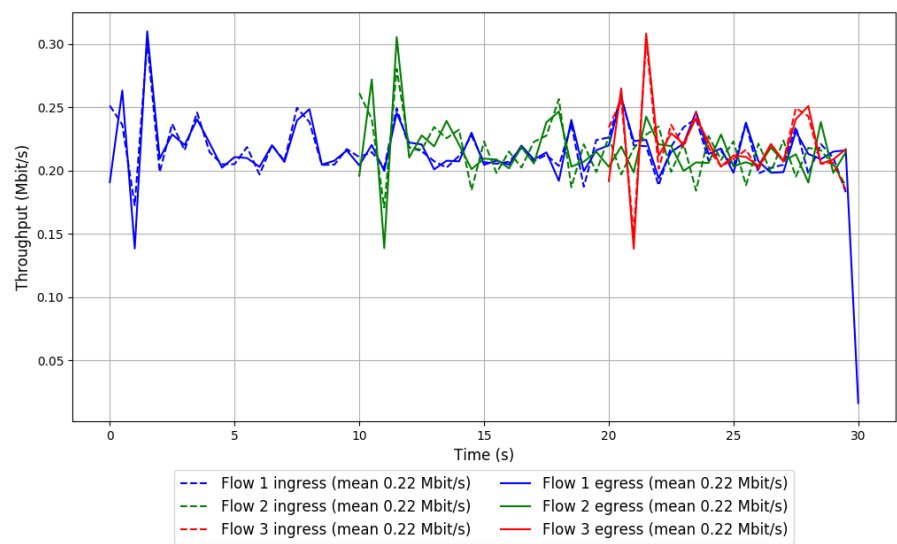


Run 9: Statistics of SReAM

Start at: 2018-04-17 19:49:29
End at: 2018-04-17 19:49:59
Local clock offset: -6.184 ms
Remote clock offset: 12.068 ms

Below is generated by plot.py at 2018-04-17 21:02:34
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 100.459 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 100.328 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 100.486 ms
Loss rate: 0.19%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 97.230 ms
Loss rate: 0.00%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-04-17 20:12:06

End at: 2018-04-17 20:12:36

Local clock offset: -6.657 ms

Remote clock offset: 8.292 ms

Below is generated by plot.py at 2018-04-17 21:02:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 100.877 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 93.759 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 97.544 ms

Loss rate: 0.19%

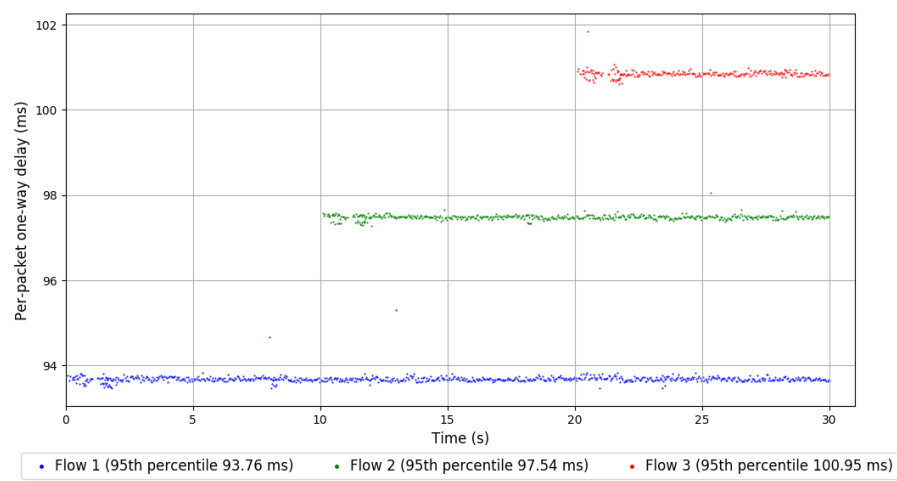
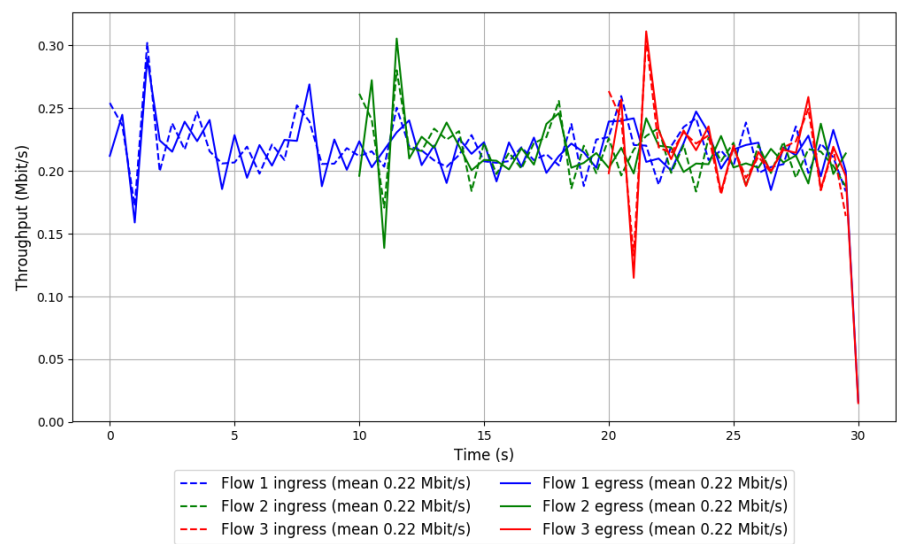
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 100.947 ms

Loss rate: 0.00%

Run 10: Report of SReAM — Data Link



Run 1: Statistics of WebRTC media

Start at: 2018-04-17 16:47:39

End at: 2018-04-17 16:48:09

Local clock offset: -2.823 ms

Remote clock offset: 4.927 ms

Below is generated by plot.py at 2018-04-17 21:02:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.16 Mbit/s

95th percentile per-packet one-way delay: 119.516 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 120.004 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 102.286 ms

Loss rate: 0.00%

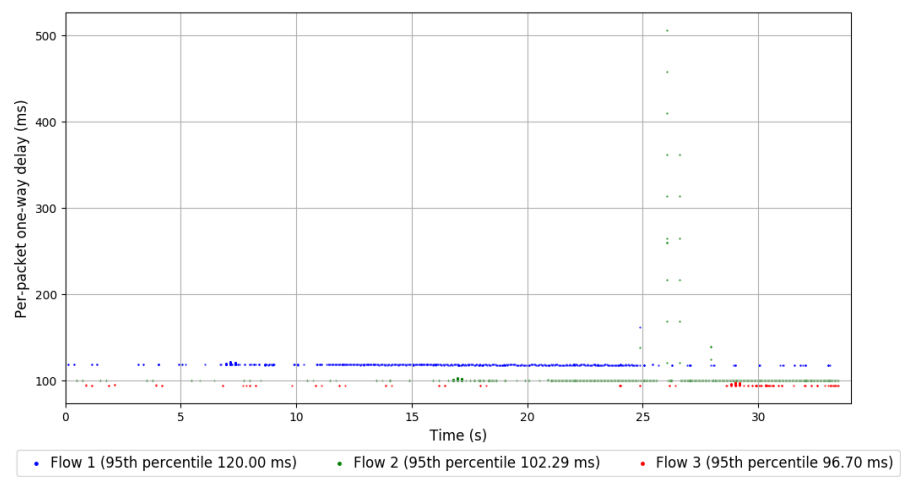
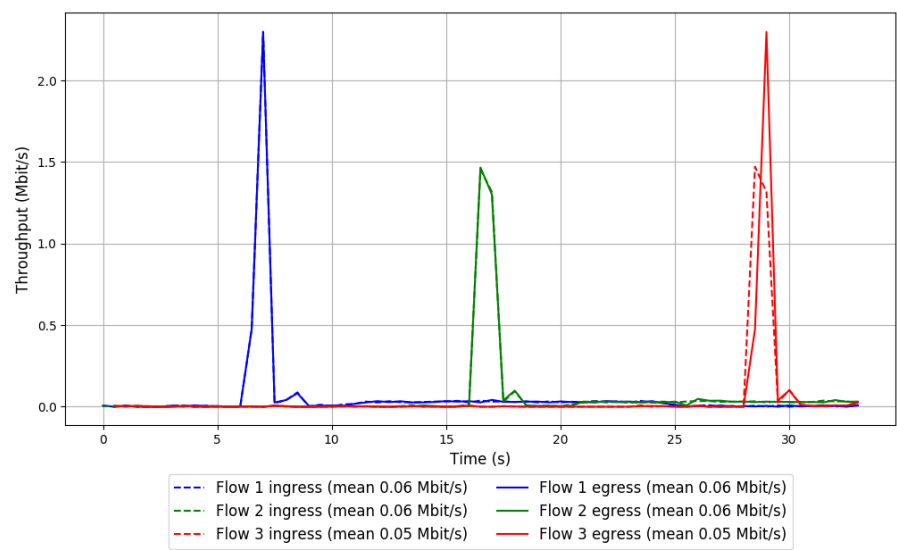
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 96.704 ms

Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link

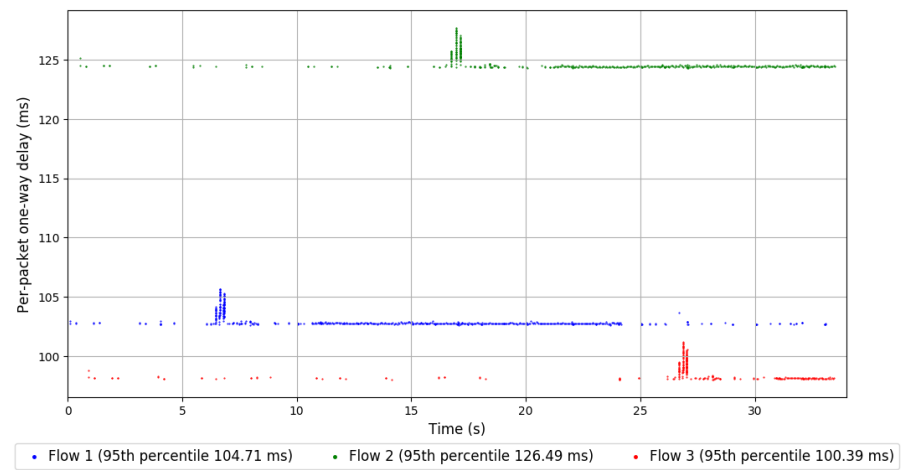
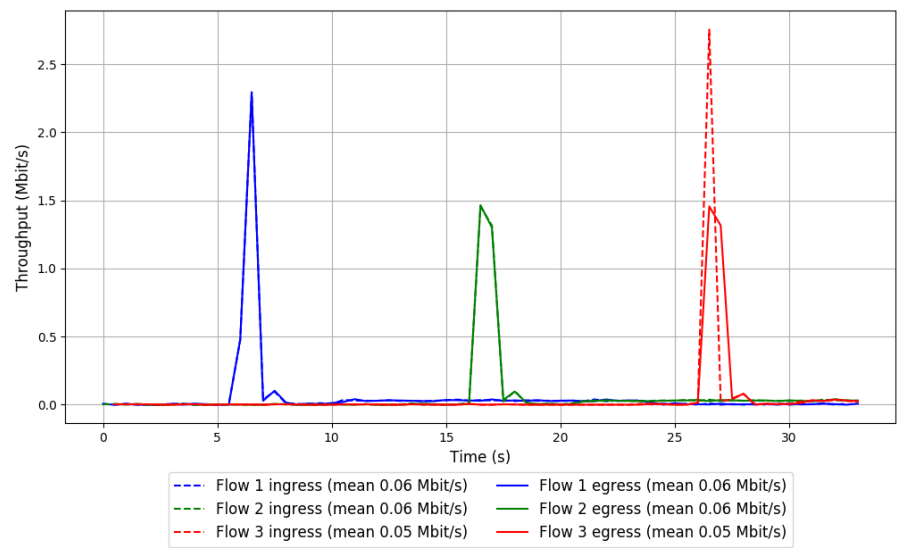


Run 2: Statistics of WebRTC media

Start at: 2018-04-17 17:10:12
End at: 2018-04-17 17:10:42
Local clock offset: -4.928 ms
Remote clock offset: 11.382 ms

Below is generated by plot.py at 2018-04-17 21:02:34
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 125.552 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 104.707 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 126.494 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 100.394 ms
Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link

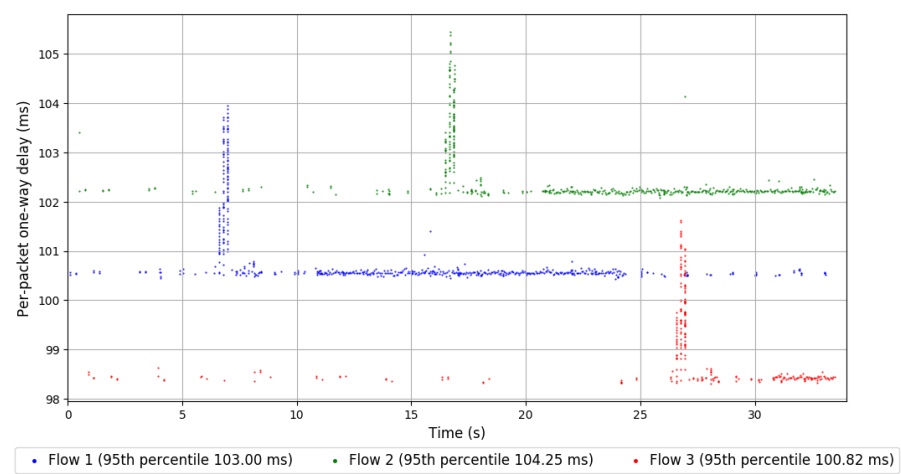
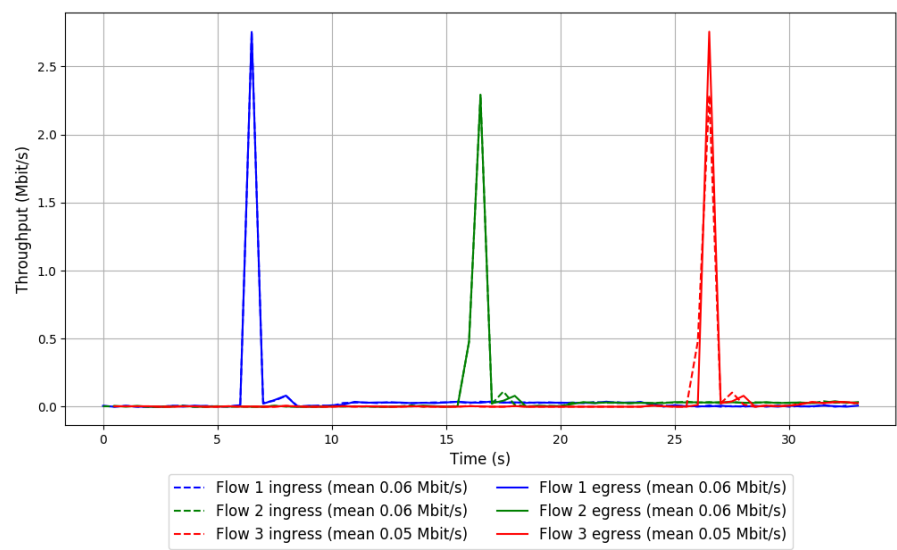


Run 3: Statistics of WebRTC media

Start at: 2018-04-17 17:32:31
End at: 2018-04-17 17:33:01
Local clock offset: -5.059 ms
Remote clock offset: 11.197 ms

Below is generated by plot.py at 2018-04-17 21:02:34
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 103.494 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 102.998 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 104.255 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 100.820 ms
Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link

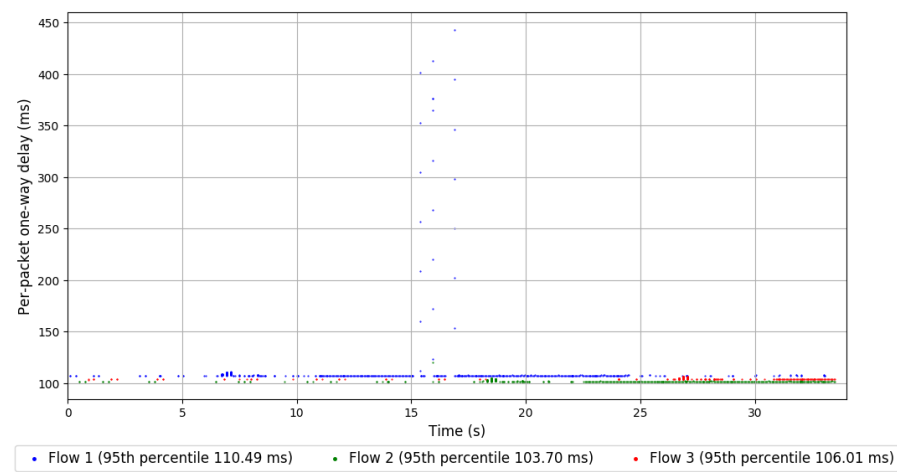
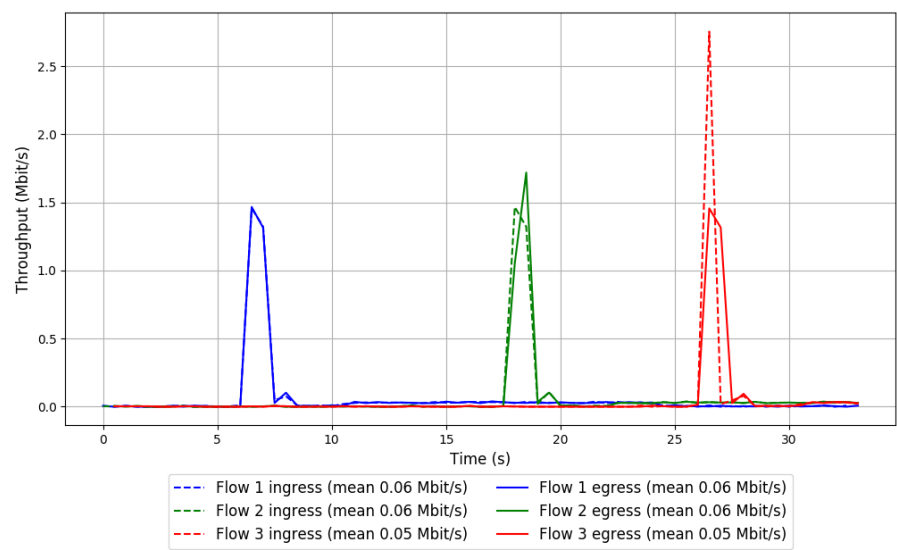


Run 4: Statistics of WebRTC media

Start at: 2018-04-17 17:54:57
End at: 2018-04-17 17:55:27
Local clock offset: -5.87 ms
Remote clock offset: 12.486 ms

Below is generated by plot.py at 2018-04-17 21:02:34
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 109.492 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 110.492 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 103.704 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 106.014 ms
Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

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

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

Local clock offset: -5.699 ms

Remote clock offset: 5.585 ms

Below is generated by plot.py at 2018-04-17 21:02:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.16 Mbit/s

95th percentile per-packet one-way delay: 105.305 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 102.737 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 106.162 ms

Loss rate: 0.00%

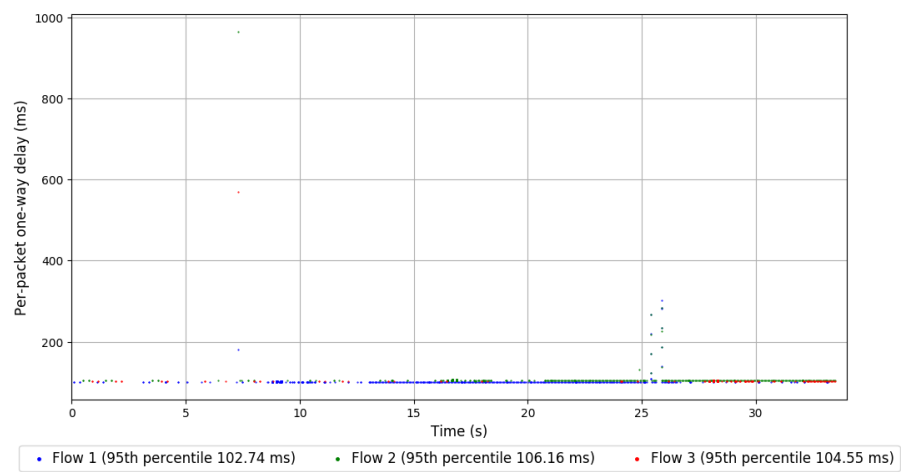
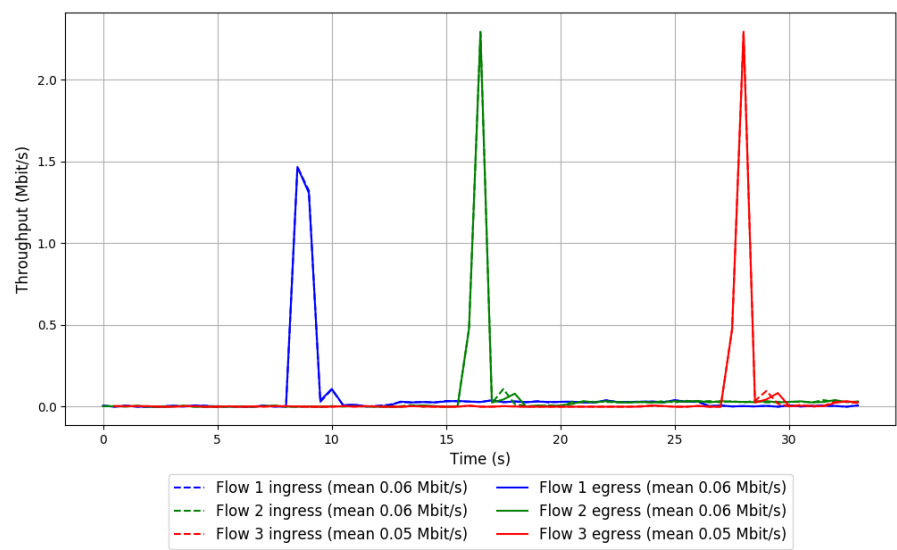
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 104.553 ms

Loss rate: 0.05%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-04-17 18:39:49

End at: 2018-04-17 18:40:19

Local clock offset: -6.009 ms

Remote clock offset: 5.606 ms

Below is generated by plot.py at 2018-04-17 21:02:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.16 Mbit/s

95th percentile per-packet one-way delay: 98.136 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 98.142 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 96.069 ms

Loss rate: 0.00%

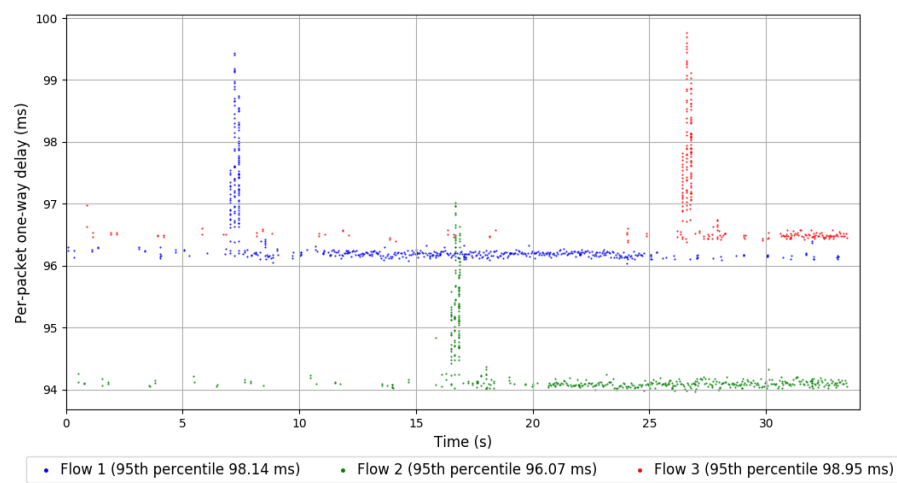
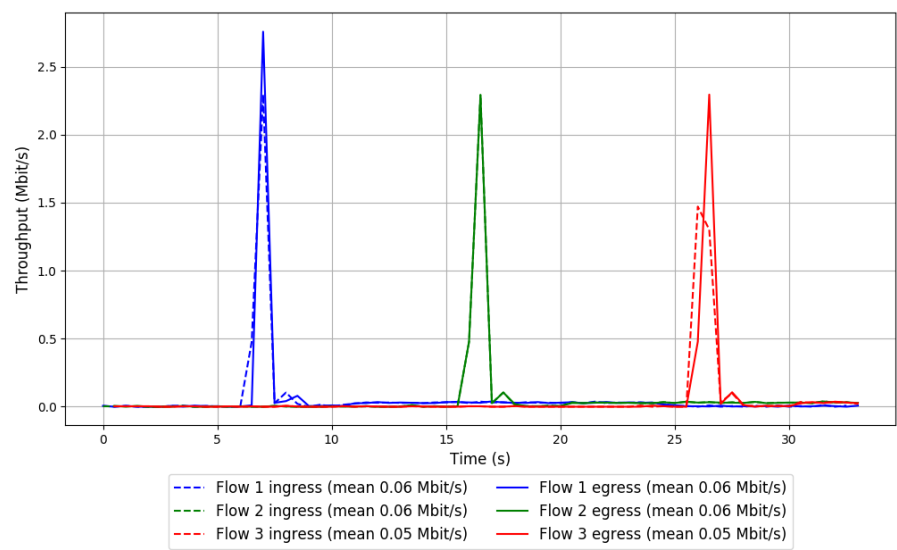
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 98.953 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link

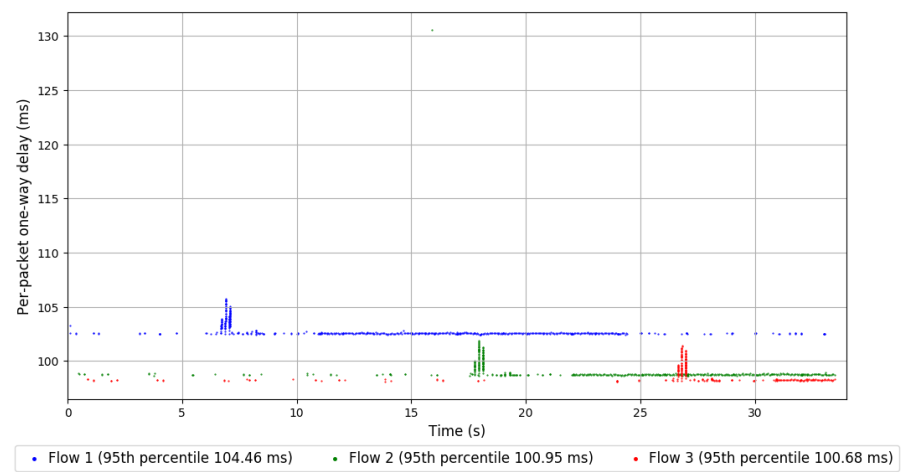
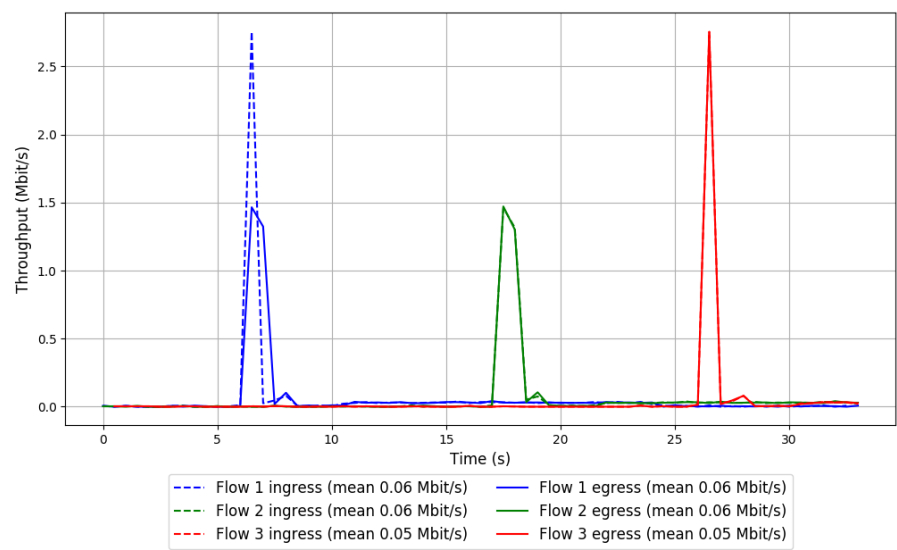


Run 7: Statistics of WebRTC media

Start at: 2018-04-17 19:02:02
End at: 2018-04-17 19:02:32
Local clock offset: -5.515 ms
Remote clock offset: 10.937 ms

Below is generated by plot.py at 2018-04-17 21:02:34
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 103.714 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 104.464 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 100.951 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 100.682 ms
Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-04-17 19:24:44

End at: 2018-04-17 19:25:14

Local clock offset: -5.418 ms

Remote clock offset: 5.855 ms

Below is generated by plot.py at 2018-04-17 21:02:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.16 Mbit/s

95th percentile per-packet one-way delay: 102.287 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 103.146 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 97.734 ms

Loss rate: 0.00%

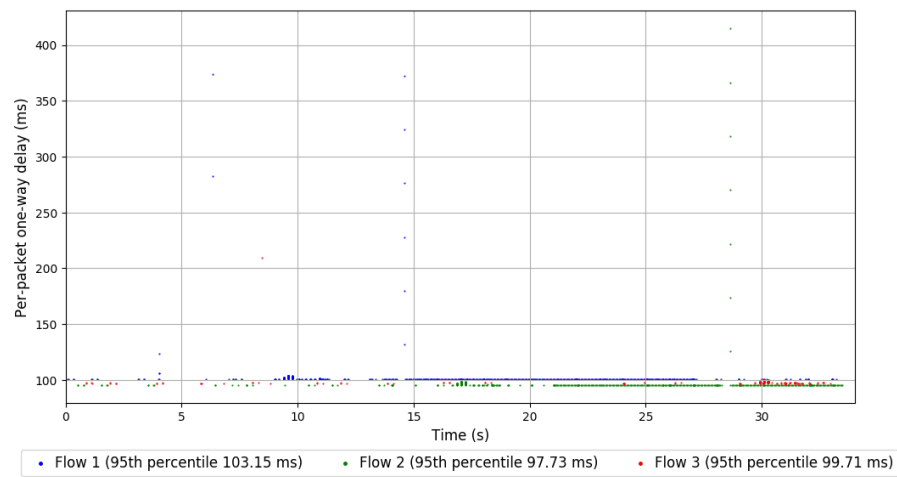
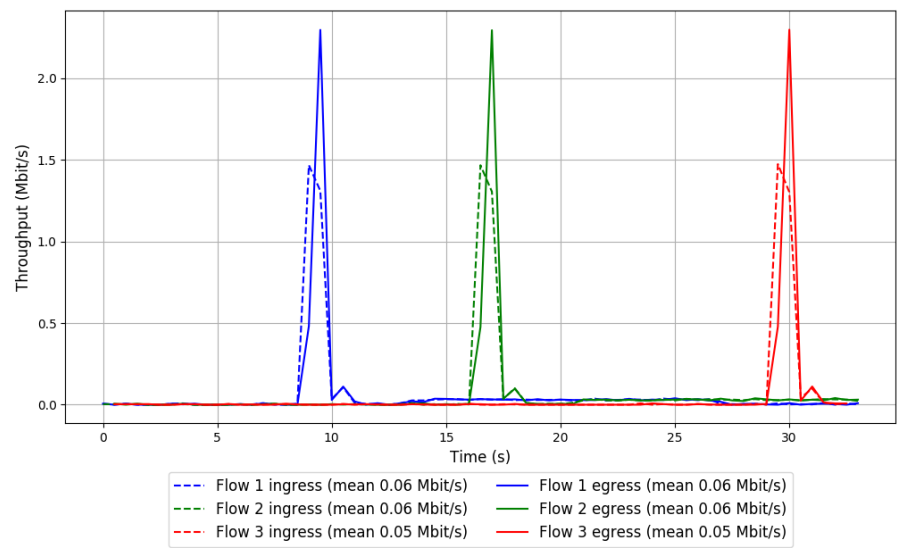
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 99.709 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-04-17 19:46:57

End at: 2018-04-17 19:47:27

Local clock offset: -6.802 ms

Remote clock offset: 7.064 ms

Below is generated by plot.py at 2018-04-17 21:02:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.16 Mbit/s

95th percentile per-packet one-way delay: 102.609 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 96.550 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 98.201 ms

Loss rate: 0.00%

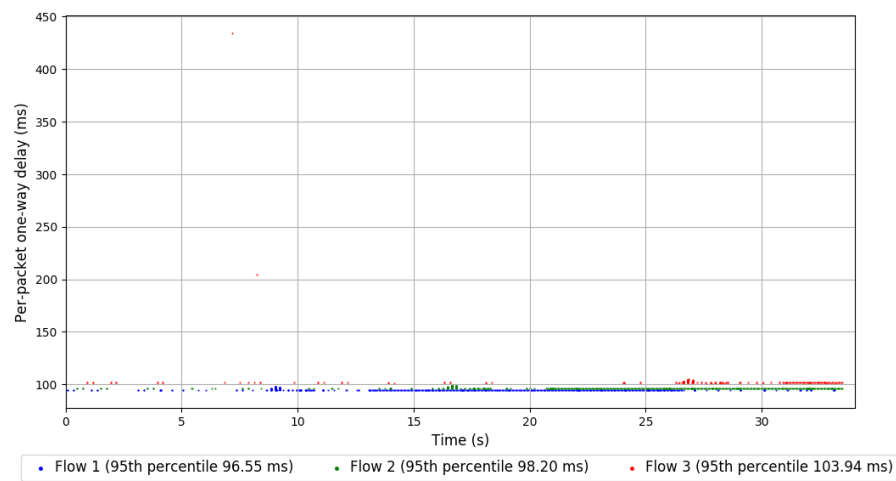
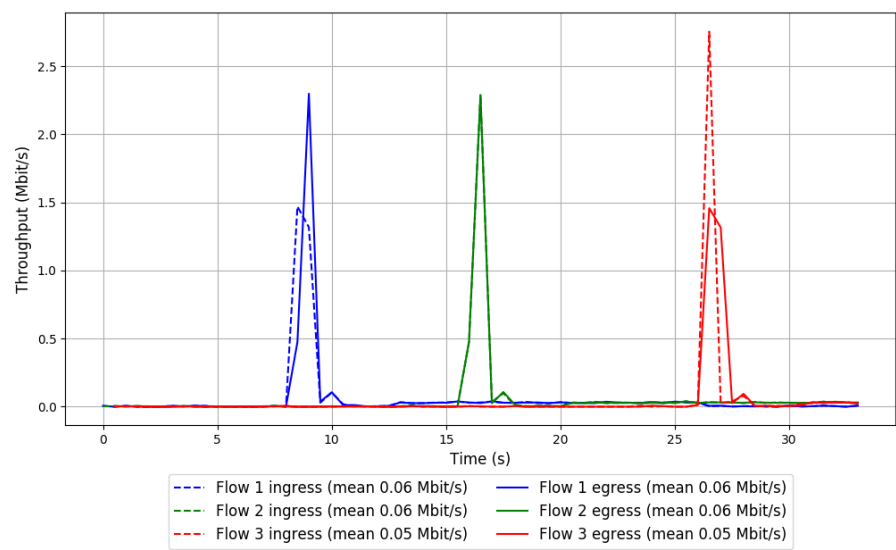
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 103.944 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link

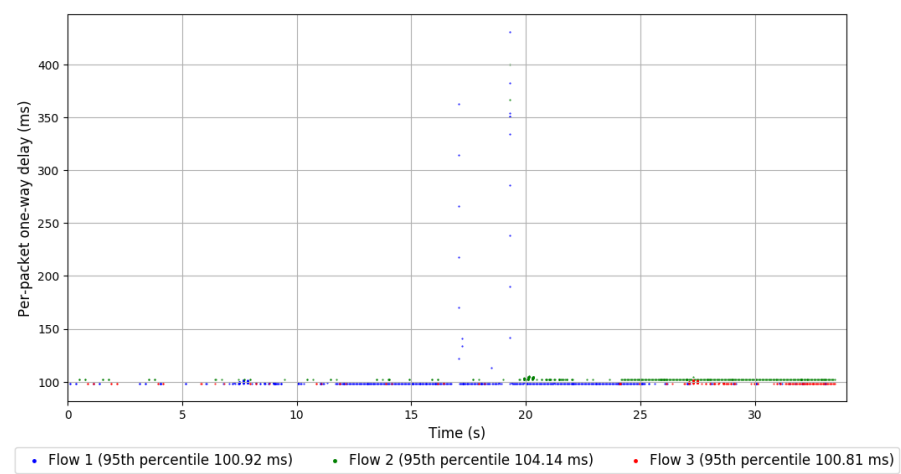
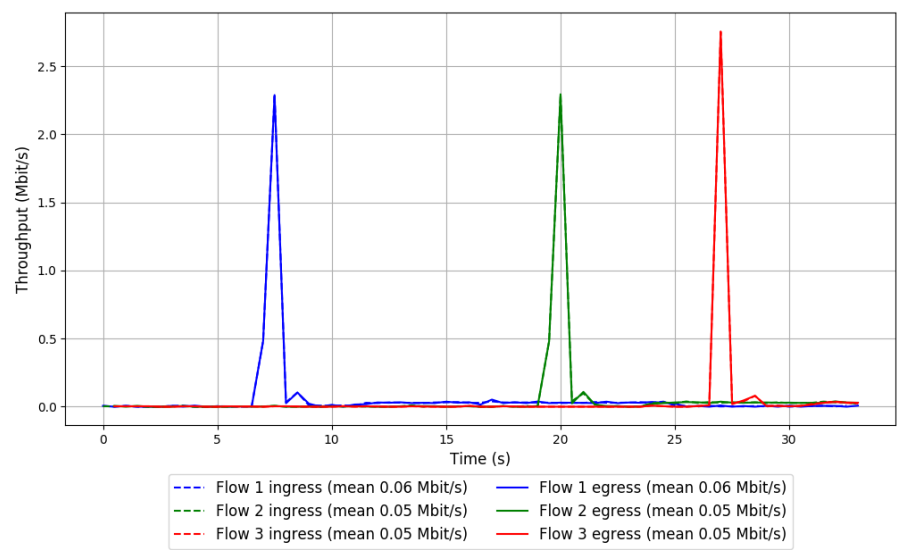


Run 10: Statistics of WebRTC media

Start at: 2018-04-17 20:09:33
End at: 2018-04-17 20:10:03
Local clock offset: -6.537 ms
Remote clock offset: 12.953 ms

Below is generated by plot.py at 2018-04-17 21:02:34
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 103.594 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 100.920 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 104.138 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 100.808 ms
Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

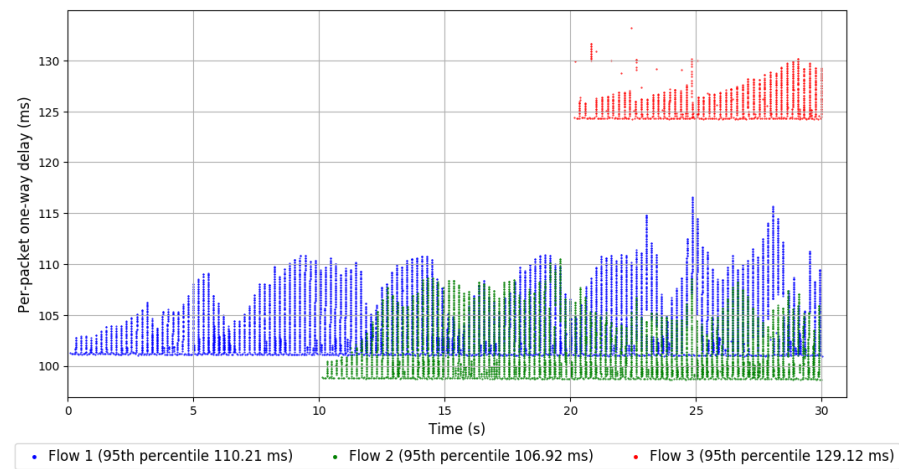
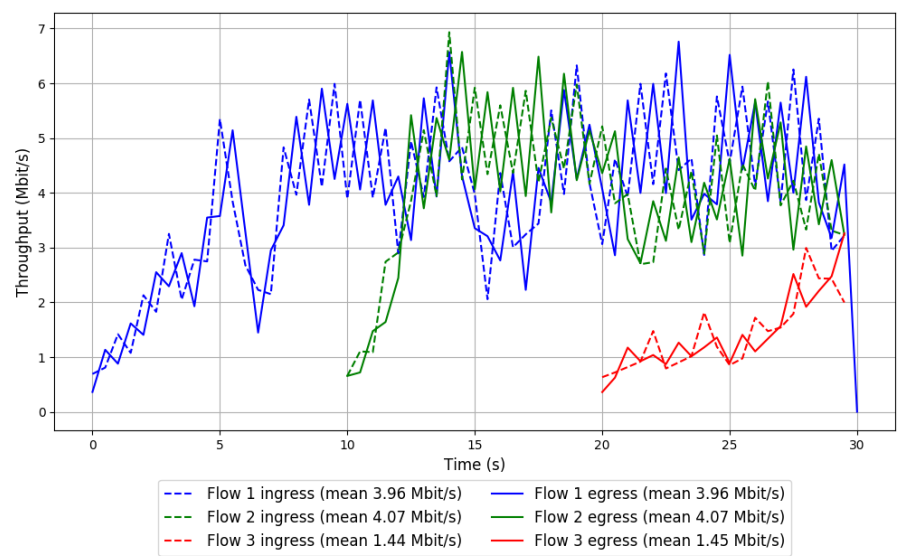


Run 1: Statistics of Sprout

Start at: 2018-04-17 16:51:26
End at: 2018-04-17 16:51:56
Local clock offset: -3.129 ms
Remote clock offset: 10.818 ms

Below is generated by plot.py at 2018-04-17 21:02:34
Datalink statistics
-- Total of 3 flows:
Average throughput: 7.14 Mbit/s
95th percentile per-packet one-way delay: 125.215 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 3.96 Mbit/s
95th percentile per-packet one-way delay: 110.210 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 4.07 Mbit/s
95th percentile per-packet one-way delay: 106.915 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 1.45 Mbit/s
95th percentile per-packet one-way delay: 129.123 ms
Loss rate: 0.01%

Run 1: Report of Sprout — Data Link

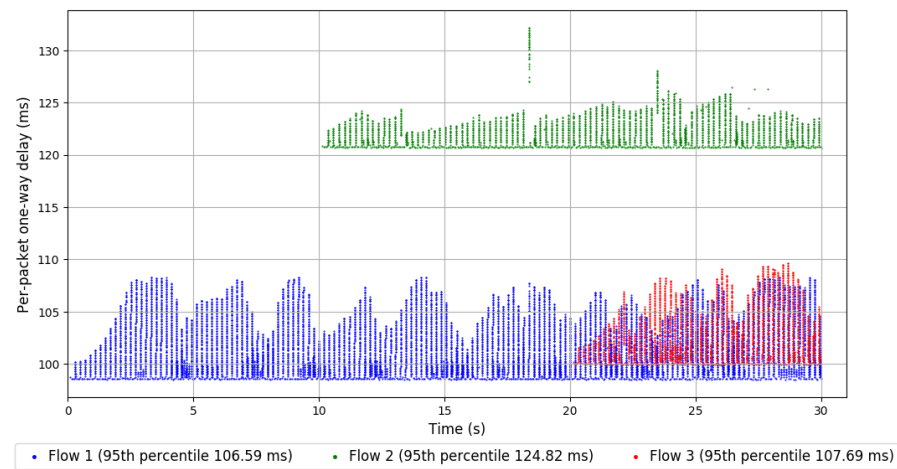
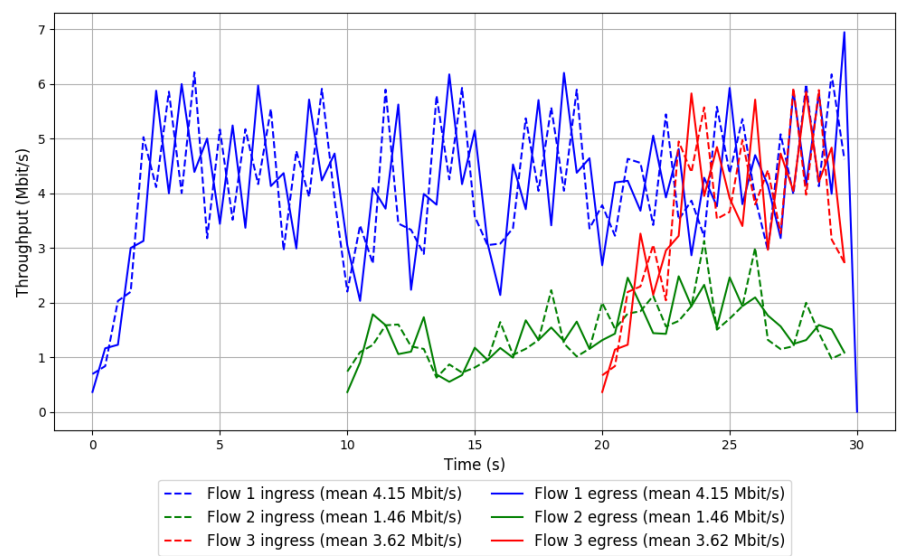


Run 2: Statistics of Sprout

Start at: 2018-04-17 17:13:58
End at: 2018-04-17 17:14:28
Local clock offset: -5.778 ms
Remote clock offset: 9.825 ms

```
# Below is generated by plot.py at 2018-04-17 21:02:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 6.31 Mbit/s
95th percentile per-packet one-way delay: 122.932 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 4.15 Mbit/s
95th percentile per-packet one-way delay: 106.593 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.46 Mbit/s
95th percentile per-packet one-way delay: 124.816 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 3.62 Mbit/s
95th percentile per-packet one-way delay: 107.695 ms
Loss rate: 0.00%
```

Run 2: Report of Sprout — Data Link

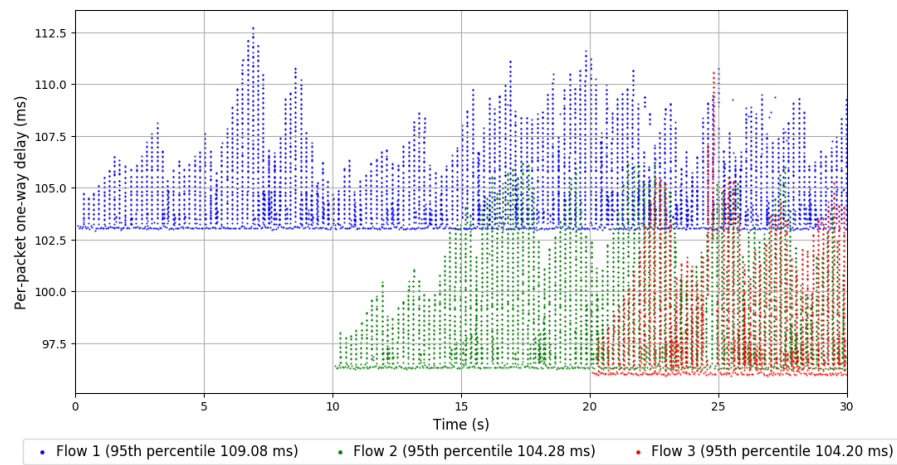
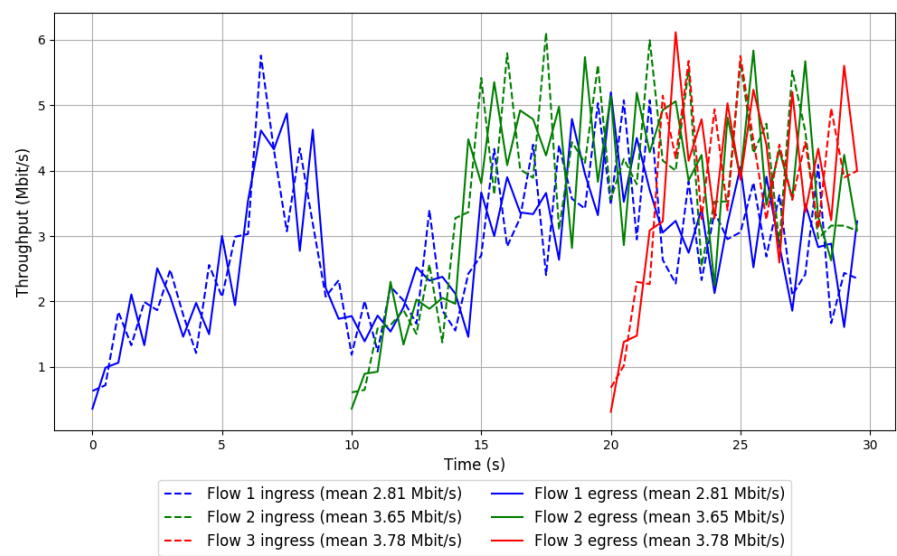


Run 3: Statistics of Sprout

Start at: 2018-04-17 17:36:17
End at: 2018-04-17 17:36:47
Local clock offset: -5.845 ms
Remote clock offset: 6.422 ms

```
# Below is generated by plot.py at 2018-04-17 21:02:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 6.49 Mbit/s
95th percentile per-packet one-way delay: 108.085 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.81 Mbit/s
95th percentile per-packet one-way delay: 109.081 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 3.65 Mbit/s
95th percentile per-packet one-way delay: 104.282 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 3.78 Mbit/s
95th percentile per-packet one-way delay: 104.196 ms
Loss rate: 0.00%
```

Run 3: Report of Sprout — Data Link

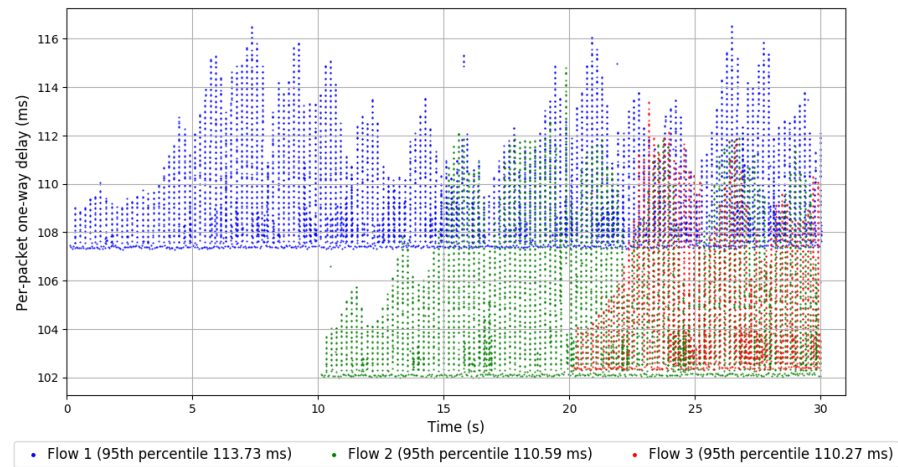
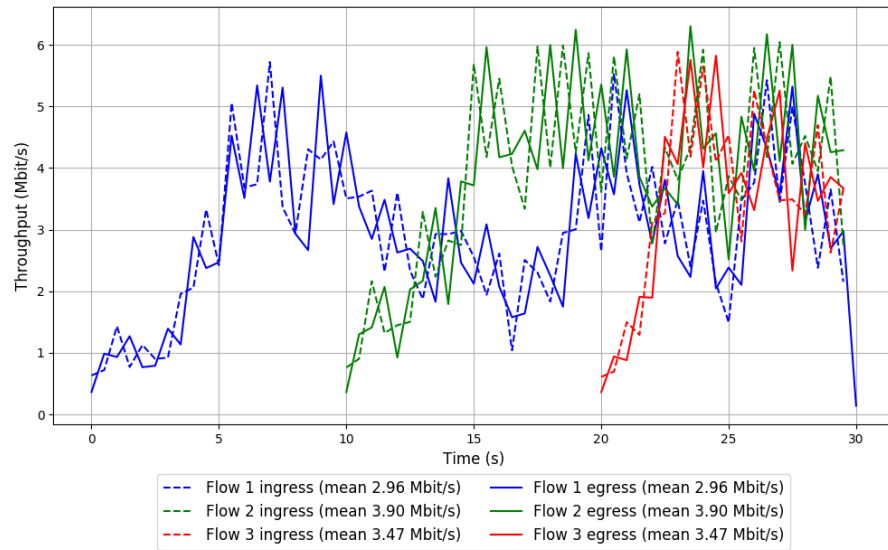


Run 4: Statistics of Sprout

Start at: 2018-04-17 17:58:43
End at: 2018-04-17 17:59:13
Local clock offset: -5.653 ms
Remote clock offset: 10.344 ms

```
# Below is generated by plot.py at 2018-04-17 21:02:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 6.70 Mbit/s
95th percentile per-packet one-way delay: 112.716 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.96 Mbit/s
95th percentile per-packet one-way delay: 113.733 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 3.90 Mbit/s
95th percentile per-packet one-way delay: 110.590 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 3.47 Mbit/s
95th percentile per-packet one-way delay: 110.268 ms
Loss rate: 0.00%
```

Run 4: Report of Sprout — Data Link

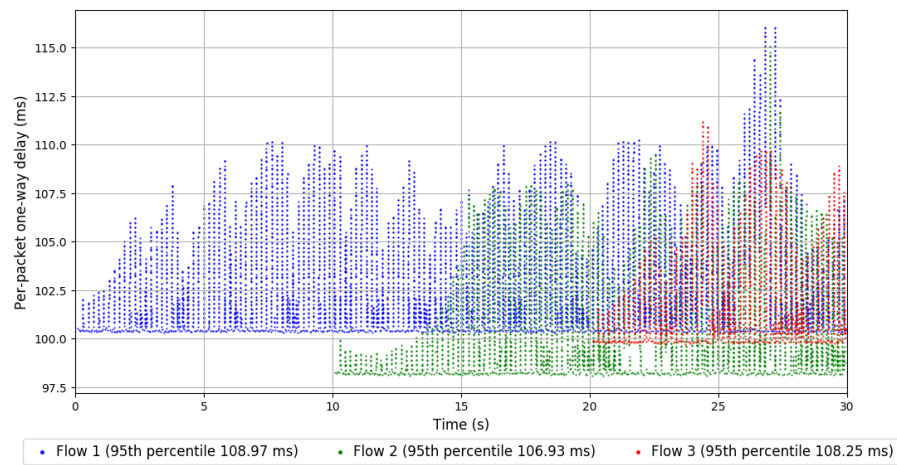
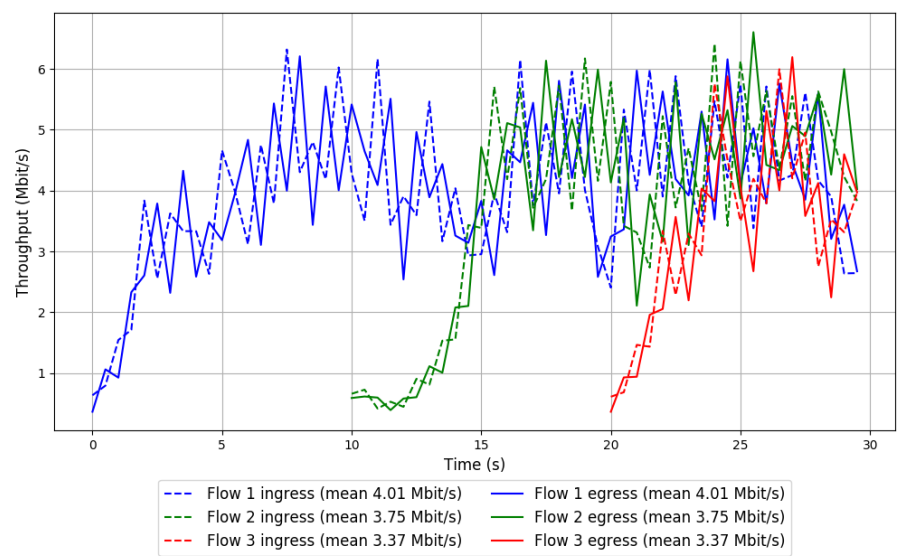


Run 5: Statistics of Sprout

Start at: 2018-04-17 18:21:09
End at: 2018-04-17 18:21:39
Local clock offset: -4.851 ms
Remote clock offset: 9.552 ms

```
# Below is generated by plot.py at 2018-04-17 21:02:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 7.61 Mbit/s
95th percentile per-packet one-way delay: 108.461 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 4.01 Mbit/s
95th percentile per-packet one-way delay: 108.972 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 3.75 Mbit/s
95th percentile per-packet one-way delay: 106.927 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 3.37 Mbit/s
95th percentile per-packet one-way delay: 108.245 ms
Loss rate: 0.00%
```

Run 5: Report of Sprout — Data Link

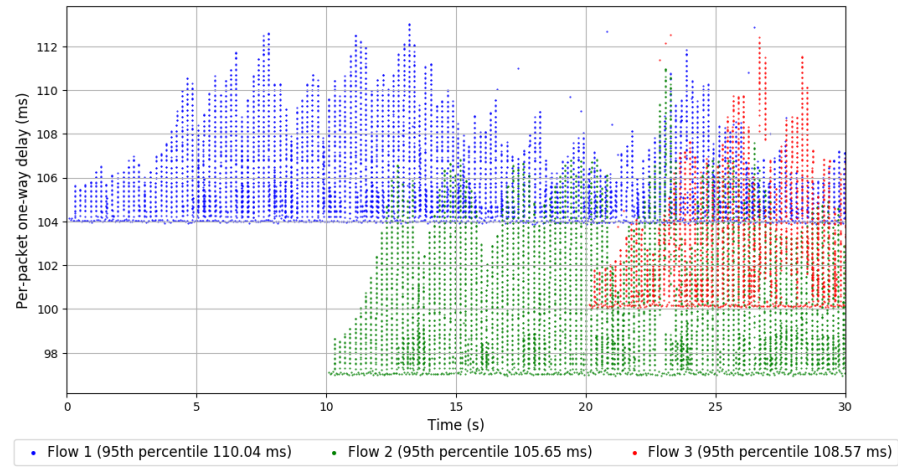
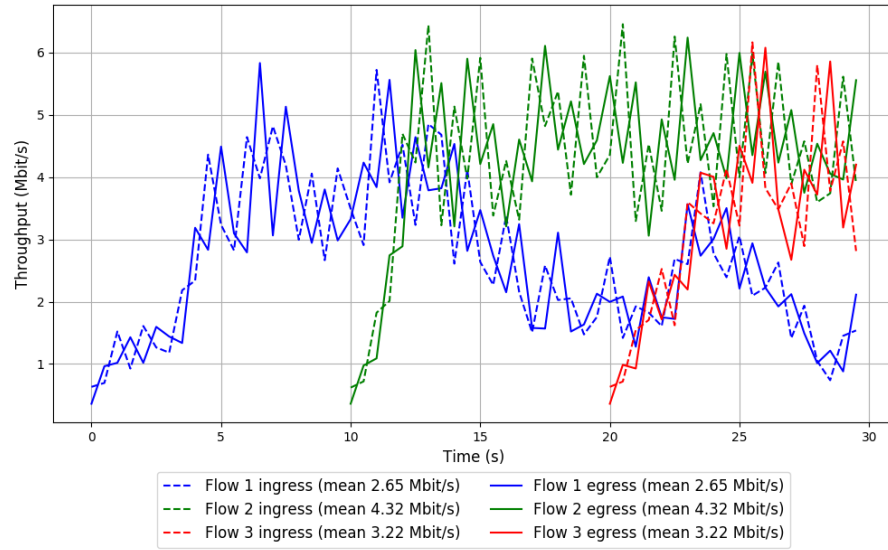


Run 6: Statistics of Sprout

Start at: 2018-04-17 18:43:35
End at: 2018-04-17 18:44:05
Local clock offset: -6.084 ms
Remote clock offset: 6.608 ms

```
# Below is generated by plot.py at 2018-04-17 21:02:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 6.59 Mbit/s
95th percentile per-packet one-way delay: 109.091 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.65 Mbit/s
95th percentile per-packet one-way delay: 110.043 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 4.32 Mbit/s
95th percentile per-packet one-way delay: 105.654 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 3.22 Mbit/s
95th percentile per-packet one-way delay: 108.574 ms
Loss rate: 0.00%
```

Run 6: Report of Sprout — Data Link

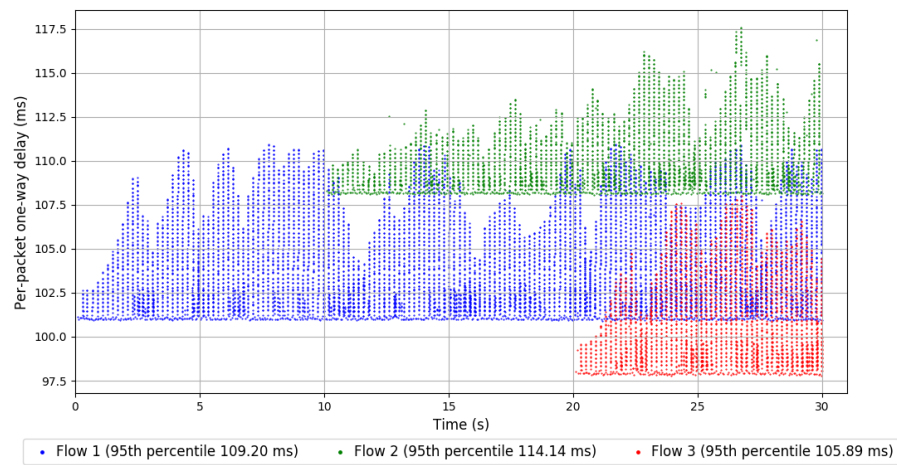
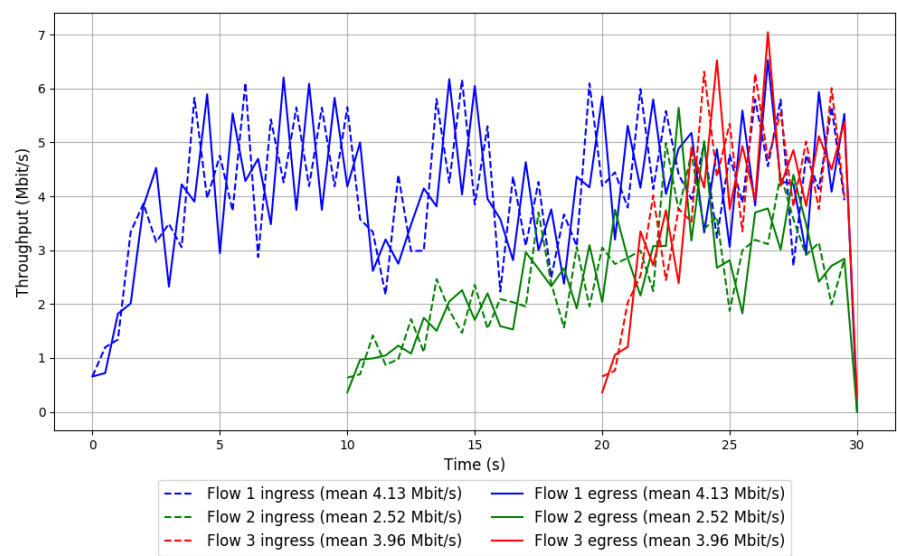


Run 7: Statistics of Sprout

Start at: 2018-04-17 19:05:49
End at: 2018-04-17 19:06:19
Local clock offset: -4.751 ms
Remote clock offset: 12.464 ms

```
# Below is generated by plot.py at 2018-04-17 21:02:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 7.12 Mbit/s
95th percentile per-packet one-way delay: 111.871 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 4.13 Mbit/s
95th percentile per-packet one-way delay: 109.199 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 2.52 Mbit/s
95th percentile per-packet one-way delay: 114.136 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 3.96 Mbit/s
95th percentile per-packet one-way delay: 105.888 ms
Loss rate: 0.00%
```

Run 7: Report of Sprout — Data Link

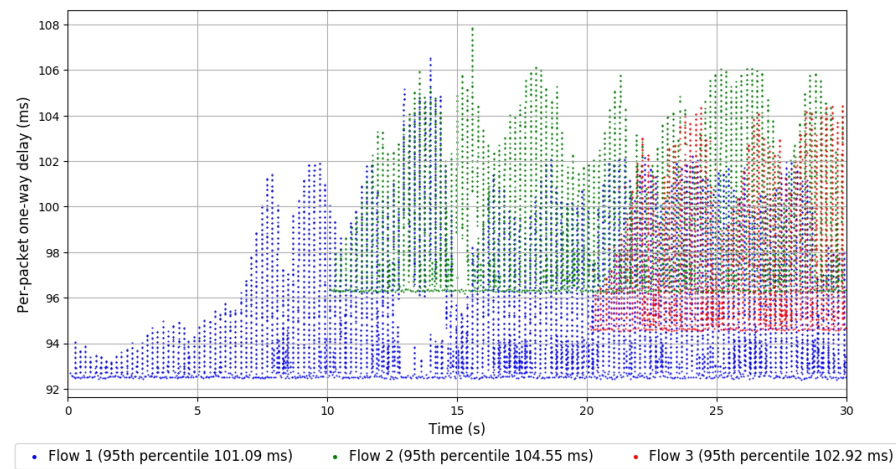
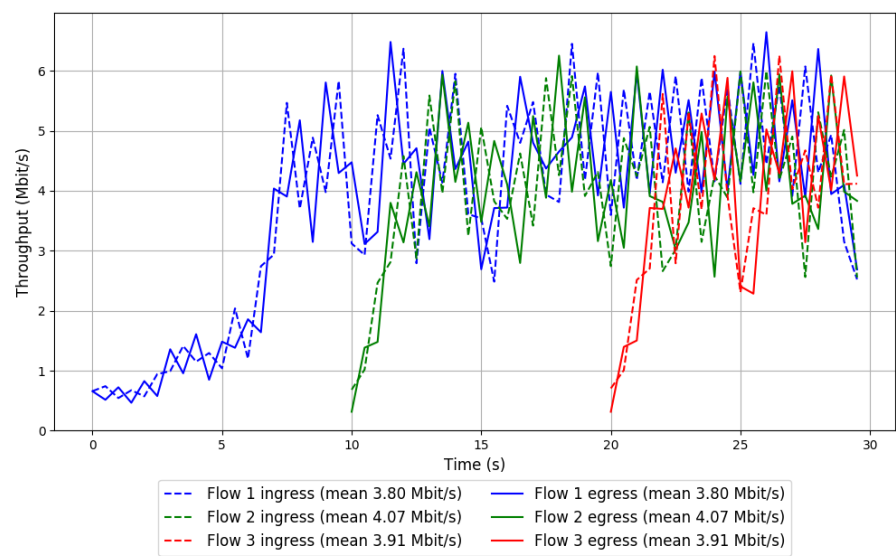


Run 8: Statistics of Sprout

Start at: 2018-04-17 19:28:30
End at: 2018-04-17 19:29:00
Local clock offset: -4.687 ms
Remote clock offset: 5.835 ms

```
# Below is generated by plot.py at 2018-04-17 21:02:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 7.79 Mbit/s
95th percentile per-packet one-way delay: 103.420 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 3.80 Mbit/s
95th percentile per-packet one-way delay: 101.091 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 4.07 Mbit/s
95th percentile per-packet one-way delay: 104.553 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 3.91 Mbit/s
95th percentile per-packet one-way delay: 102.916 ms
Loss rate: 0.00%
```

Run 8: Report of Sprout — Data Link

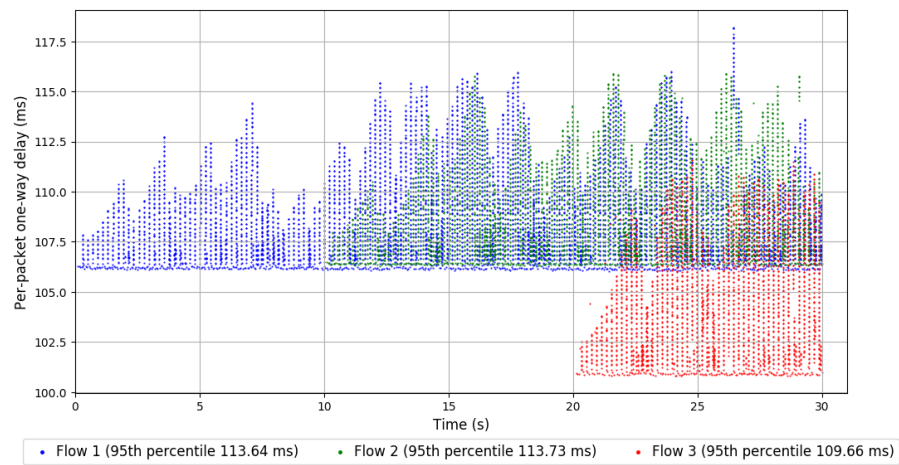
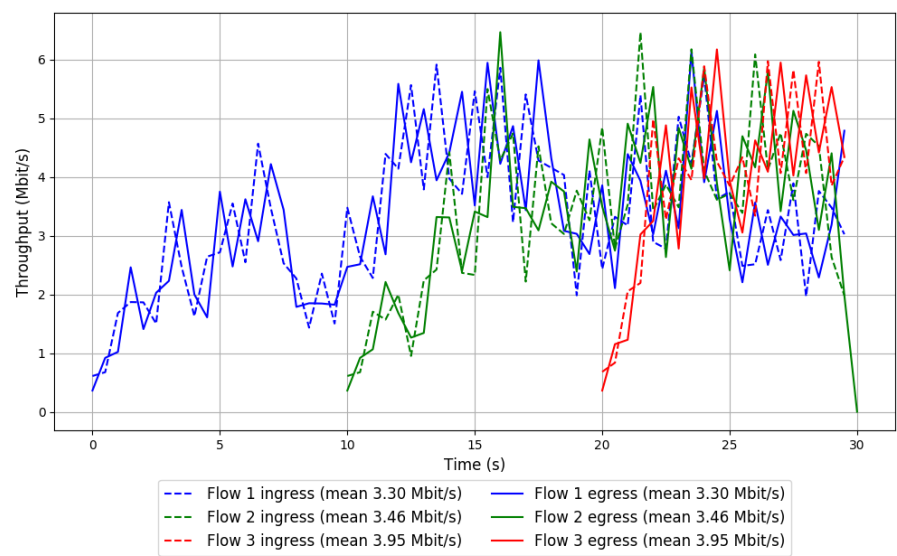


Run 9: Statistics of Sprout

Start at: 2018-04-17 19:50:43
End at: 2018-04-17 19:51:13
Local clock offset: -6.992 ms
Remote clock offset: 12.171 ms

Below is generated by plot.py at 2018-04-17 21:02:34
Datalink statistics
-- Total of 3 flows:
Average throughput: 6.90 Mbit/s
95th percentile per-packet one-way delay: 113.421 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 3.30 Mbit/s
95th percentile per-packet one-way delay: 113.642 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 3.46 Mbit/s
95th percentile per-packet one-way delay: 113.728 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 3.95 Mbit/s
95th percentile per-packet one-way delay: 109.660 ms
Loss rate: 0.00%

Run 9: Report of Sprout — Data Link

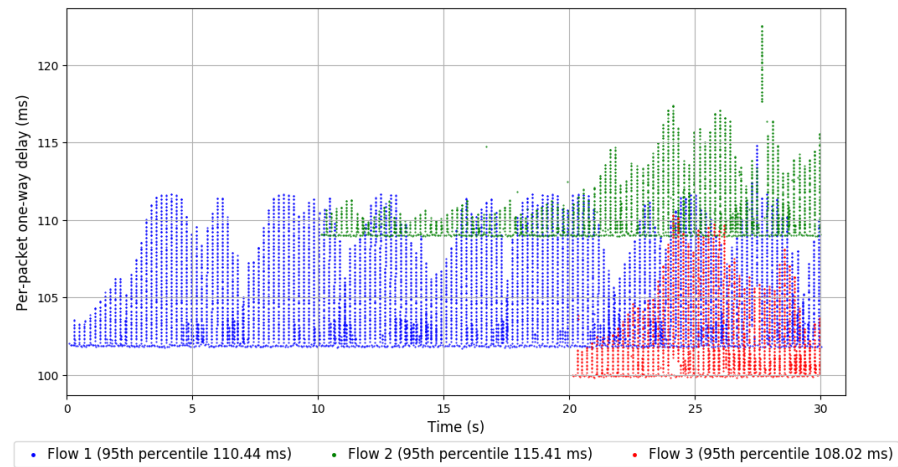
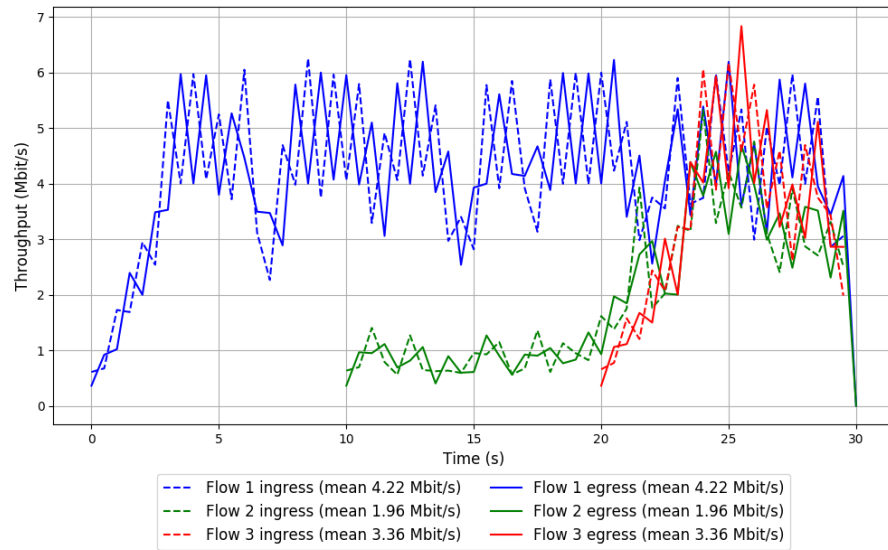


Run 10: Statistics of Sprout

Start at: 2018-04-17 20:13:20
End at: 2018-04-17 20:13:50
Local clock offset: -6.595 ms
Remote clock offset: 14.744 ms

```
# Below is generated by plot.py at 2018-04-17 21:02:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 6.62 Mbit/s
95th percentile per-packet one-way delay: 112.486 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 4.22 Mbit/s
95th percentile per-packet one-way delay: 110.444 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.96 Mbit/s
95th percentile per-packet one-way delay: 115.413 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 3.36 Mbit/s
95th percentile per-packet one-way delay: 108.018 ms
Loss rate: 0.00%
```

Run 10: Report of Sprout — Data Link

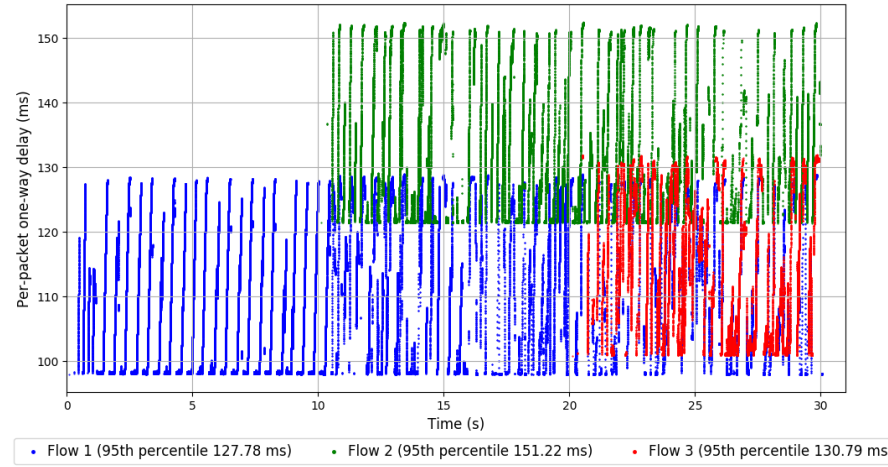
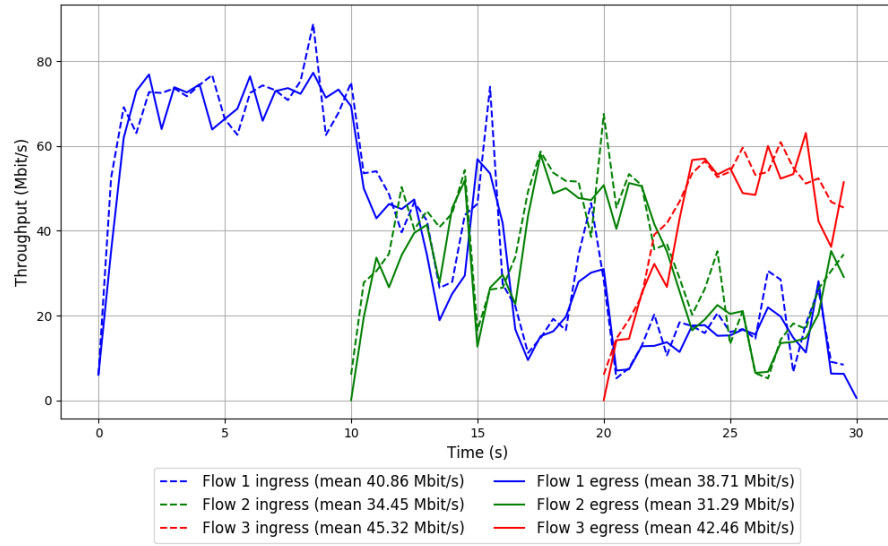


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-04-17 16:52:40
End at: 2018-04-17 16:53:10
Local clock offset: -3.391 ms
Remote clock offset: 9.267 ms

# Below is generated by plot.py at 2018-04-17 21:04:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 73.33 Mbit/s
95th percentile per-packet one-way delay: 147.469 ms
Loss rate: 6.53%
-- Flow 1:
Average throughput: 38.71 Mbit/s
95th percentile per-packet one-way delay: 127.779 ms
Loss rate: 5.27%
-- Flow 2:
Average throughput: 31.29 Mbit/s
95th percentile per-packet one-way delay: 151.216 ms
Loss rate: 9.15%
-- Flow 3:
Average throughput: 42.46 Mbit/s
95th percentile per-packet one-way delay: 130.794 ms
Loss rate: 6.00%
```

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



Run 2: Statistics of TaoVA-100x

Start at: 2018-04-17 17:15:13

End at: 2018-04-17 17:15:43

Local clock offset: -5.087 ms

Remote clock offset: 5.794 ms

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 75.84 Mbit/s

95th percentile per-packet one-way delay: 134.422 ms

Loss rate: 2.85%

-- Flow 1:

Average throughput: 61.11 Mbit/s

95th percentile per-packet one-way delay: 124.512 ms

Loss rate: 1.84%

-- Flow 2:

Average throughput: 15.17 Mbit/s

95th percentile per-packet one-way delay: 151.672 ms

Loss rate: 3.37%

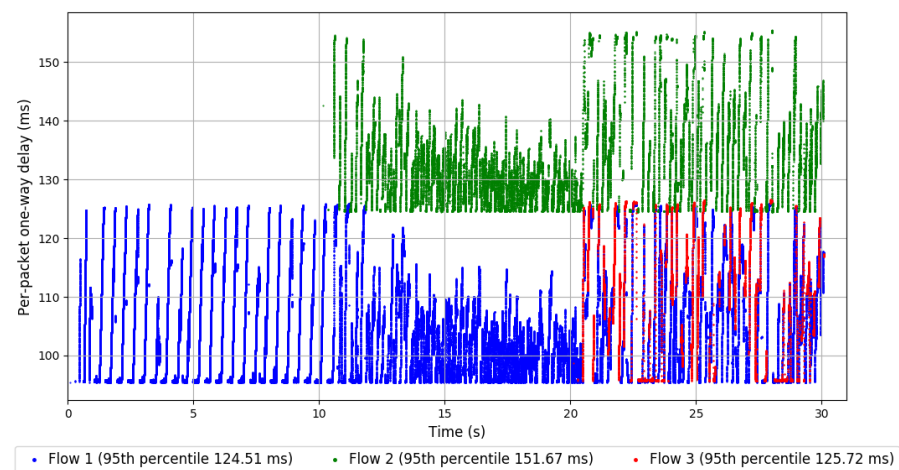
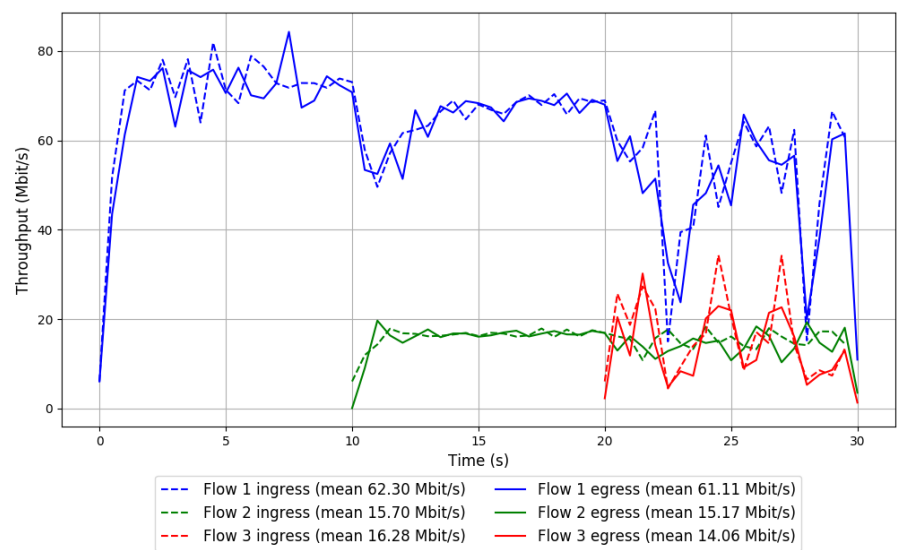
-- Flow 3:

Average throughput: 14.06 Mbit/s

95th percentile per-packet one-way delay: 125.724 ms

Loss rate: 13.51%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-04-17 17:37:32

End at: 2018-04-17 17:38:02

Local clock offset: -6.643 ms

Remote clock offset: 5.591 ms

Below is generated by plot.py at 2018-04-17 21:04:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 74.81 Mbit/s

95th percentile per-packet one-way delay: 126.093 ms

Loss rate: 5.79%

-- Flow 1:

Average throughput: 51.87 Mbit/s

95th percentile per-packet one-way delay: 125.967 ms

Loss rate: 3.89%

-- Flow 2:

Average throughput: 22.25 Mbit/s

95th percentile per-packet one-way delay: 126.410 ms

Loss rate: 9.78%

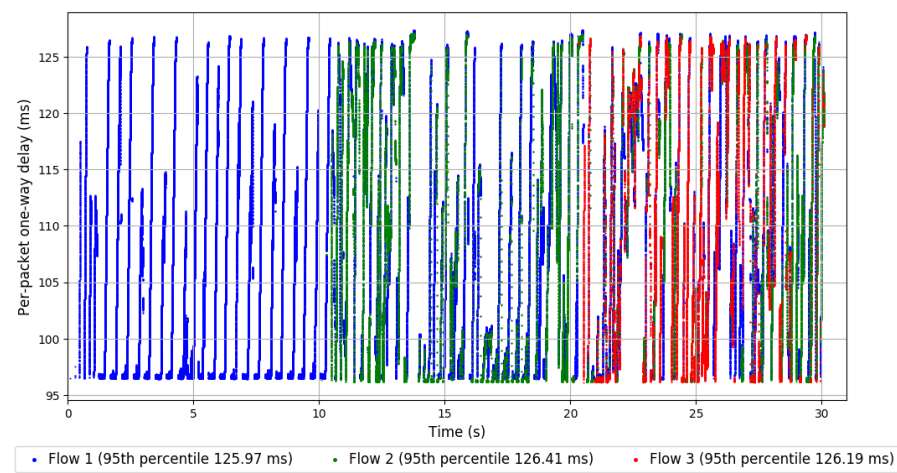
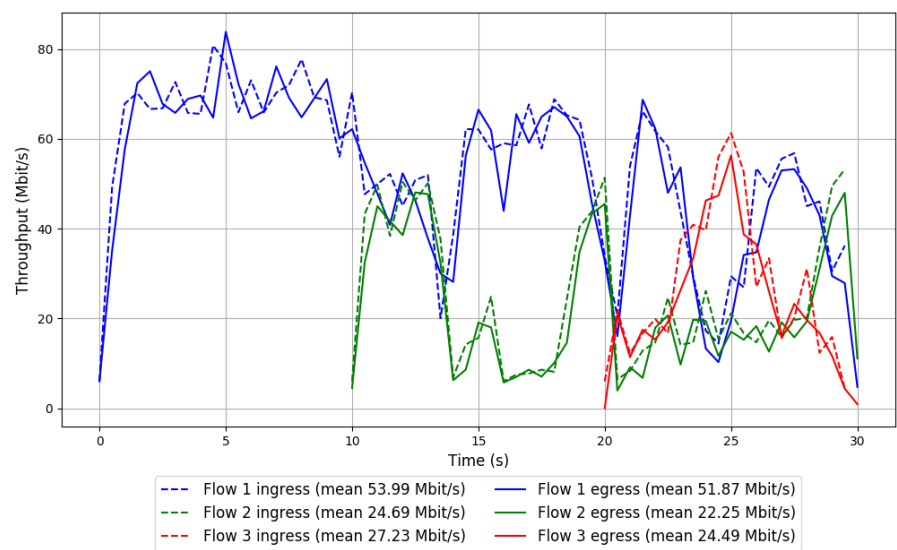
-- Flow 3:

Average throughput: 24.49 Mbit/s

95th percentile per-packet one-way delay: 126.190 ms

Loss rate: 9.84%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-04-17 17:59:57

End at: 2018-04-17 18:00:27

Local clock offset: -5.514 ms

Remote clock offset: 5.443 ms

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 73.81 Mbit/s

95th percentile per-packet one-way delay: 126.732 ms

Loss rate: 6.82%

-- Flow 1:

Average throughput: 53.17 Mbit/s

95th percentile per-packet one-way delay: 125.289 ms

Loss rate: 4.61%

-- Flow 2:

Average throughput: 22.72 Mbit/s

95th percentile per-packet one-way delay: 130.782 ms

Loss rate: 11.53%

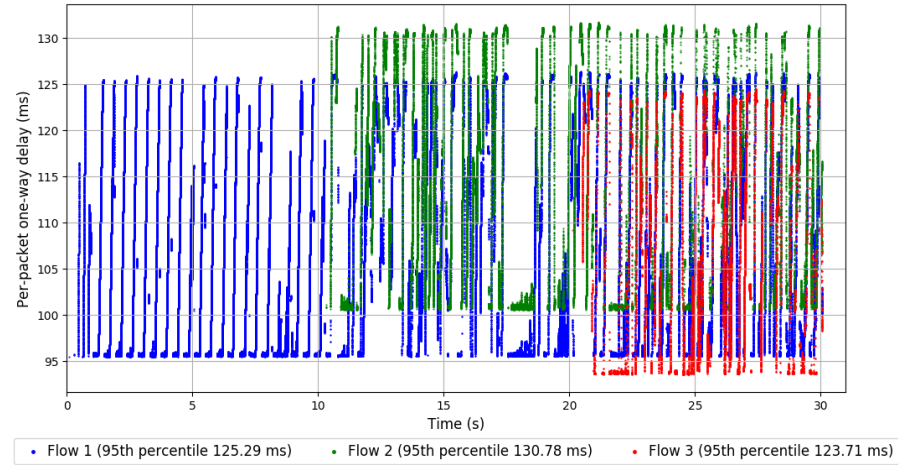
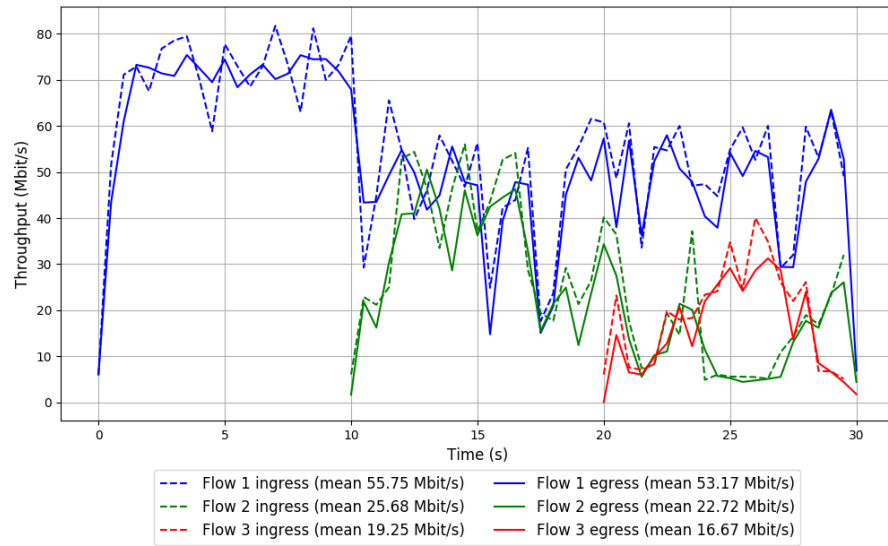
-- Flow 3:

Average throughput: 16.67 Mbit/s

95th percentile per-packet one-way delay: 123.711 ms

Loss rate: 13.47%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-04-17 18:22:24

End at: 2018-04-17 18:22:54

Local clock offset: -4.907 ms

Remote clock offset: 5.503 ms

Below is generated by plot.py at 2018-04-17 21:04:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 76.39 Mbit/s

95th percentile per-packet one-way delay: 126.810 ms

Loss rate: 6.10%

-- Flow 1:

Average throughput: 47.18 Mbit/s

95th percentile per-packet one-way delay: 125.833 ms

Loss rate: 4.40%

-- Flow 2:

Average throughput: 36.98 Mbit/s

95th percentile per-packet one-way delay: 128.464 ms

Loss rate: 7.60%

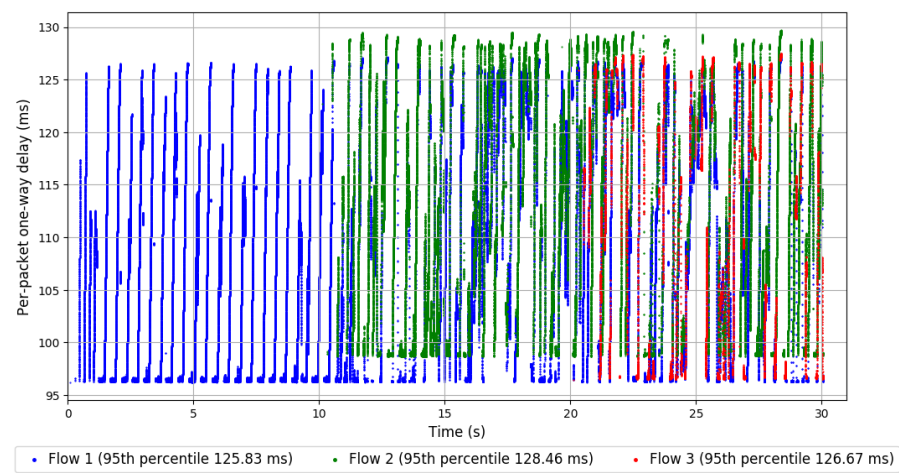
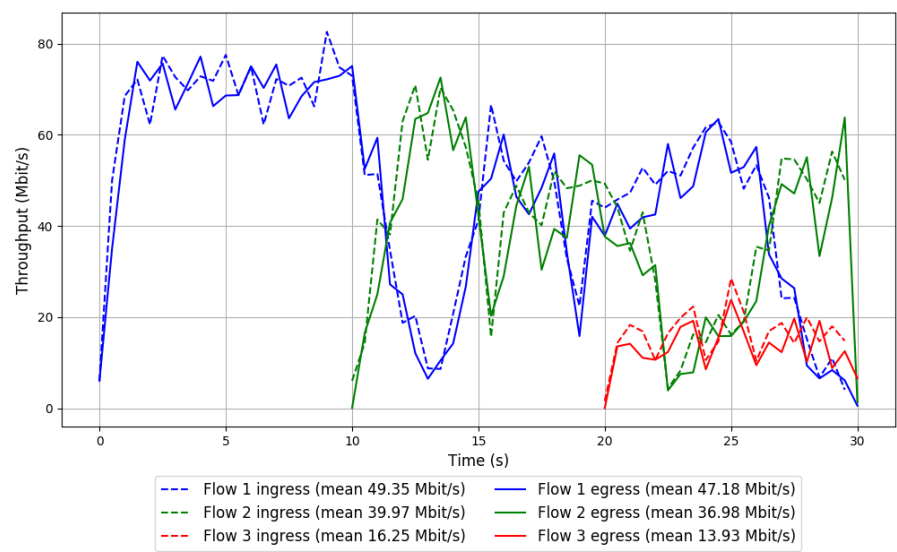
-- Flow 3:

Average throughput: 13.93 Mbit/s

95th percentile per-packet one-way delay: 126.668 ms

Loss rate: 14.27%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-04-17 18:44:50

End at: 2018-04-17 18:45:20

Local clock offset: -4.624 ms

Remote clock offset: 5.78 ms

Below is generated by plot.py at 2018-04-17 21:04:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 68.64 Mbit/s

95th percentile per-packet one-way delay: 124.389 ms

Loss rate: 4.79%

-- Flow 1:

Average throughput: 51.43 Mbit/s

95th percentile per-packet one-way delay: 124.333 ms

Loss rate: 3.13%

-- Flow 2:

Average throughput: 21.78 Mbit/s

95th percentile per-packet one-way delay: 124.687 ms

Loss rate: 9.83%

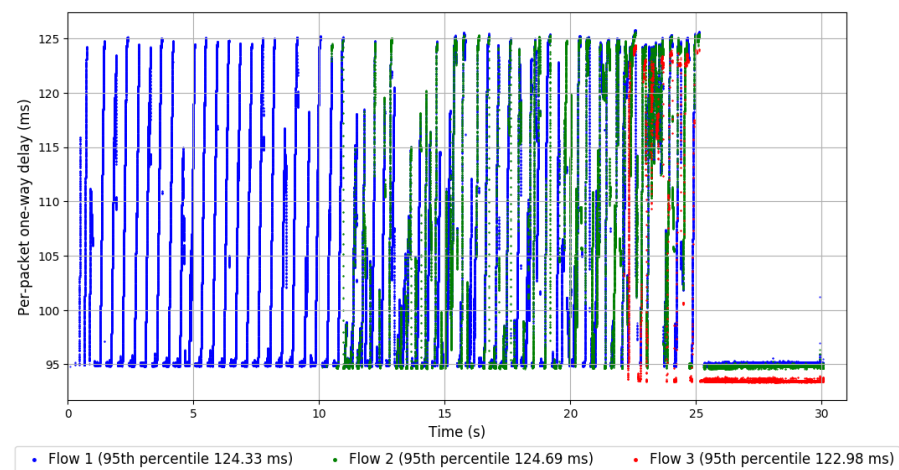
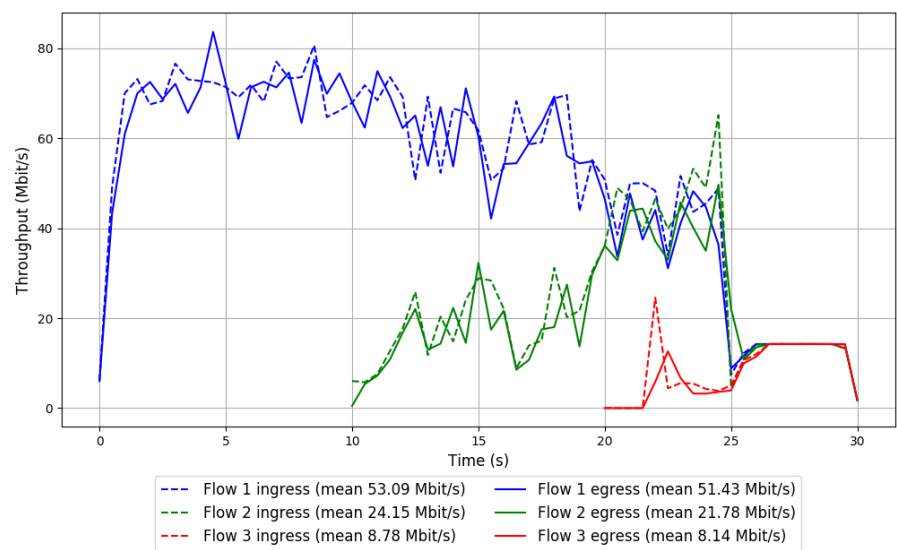
-- Flow 3:

Average throughput: 8.14 Mbit/s

95th percentile per-packet one-way delay: 122.980 ms

Loss rate: 7.22%

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



Run 7: Statistics of TaoVA-100x

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

End at: 2018-04-17 19:07:34

Local clock offset: -5.451 ms

Remote clock offset: 6.032 ms

Below is generated by plot.py at 2018-04-17 21:04:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 74.70 Mbit/s

95th percentile per-packet one-way delay: 125.273 ms

Loss rate: 6.23%

-- Flow 1:

Average throughput: 44.94 Mbit/s

95th percentile per-packet one-way delay: 125.229 ms

Loss rate: 3.30%

-- Flow 2:

Average throughput: 26.35 Mbit/s

95th percentile per-packet one-way delay: 125.596 ms

Loss rate: 11.09%

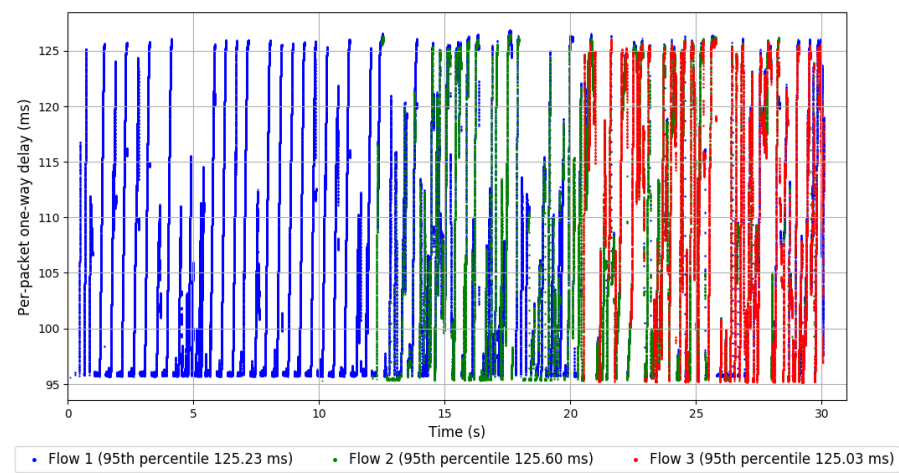
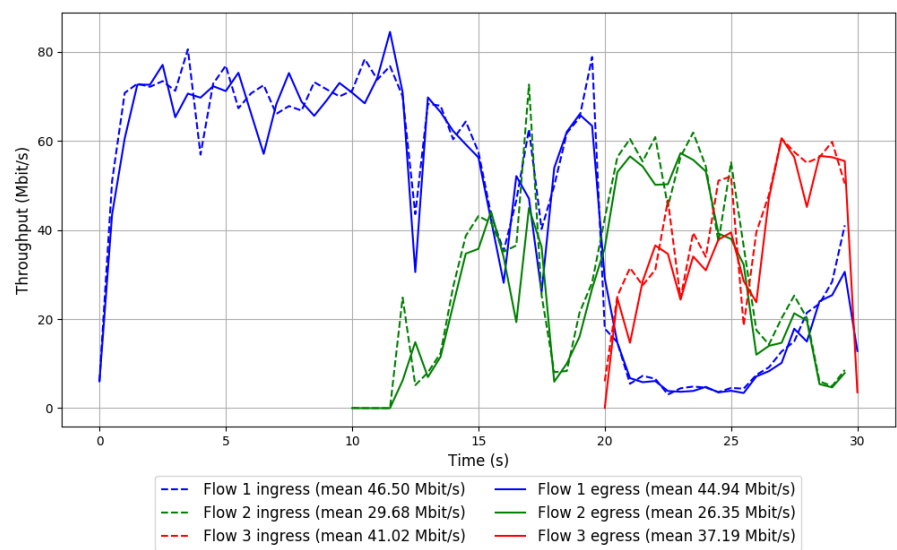
-- Flow 3:

Average throughput: 37.19 Mbit/s

95th percentile per-packet one-way delay: 125.027 ms

Loss rate: 9.25%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-04-17 19:29:45

End at: 2018-04-17 19:30:15

Local clock offset: -6.258 ms

Remote clock offset: 6.707 ms

Below is generated by plot.py at 2018-04-17 21:04:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 67.82 Mbit/s

95th percentile per-packet one-way delay: 126.901 ms

Loss rate: 5.79%

-- Flow 1:

Average throughput: 40.69 Mbit/s

95th percentile per-packet one-way delay: 126.595 ms

Loss rate: 3.95%

-- Flow 2:

Average throughput: 18.05 Mbit/s

95th percentile per-packet one-way delay: 127.428 ms

Loss rate: 9.98%

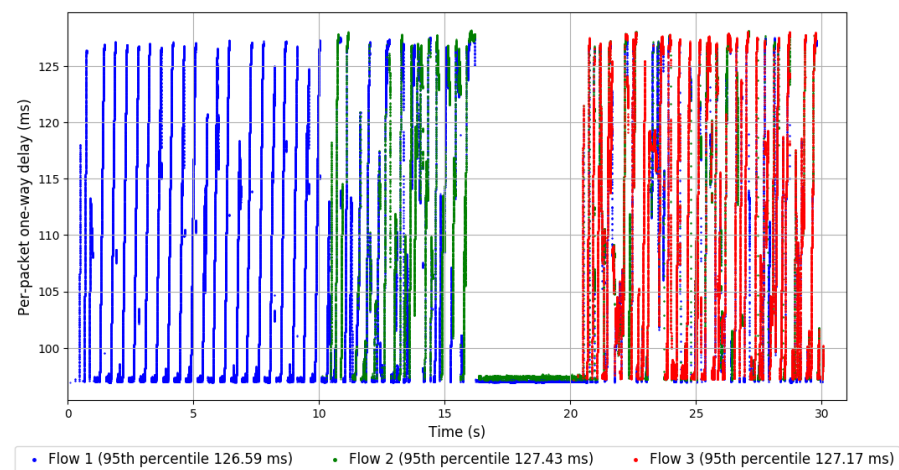
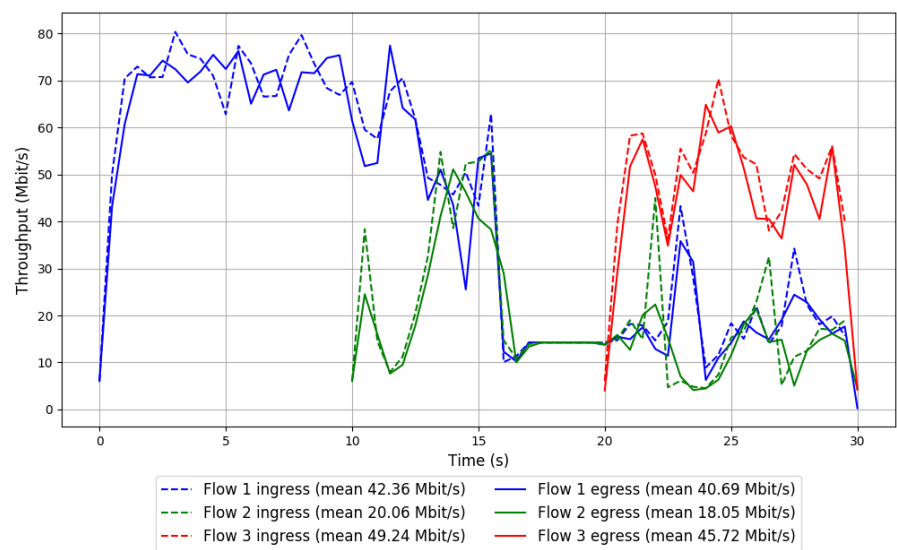
-- Flow 3:

Average throughput: 45.72 Mbit/s

95th percentile per-packet one-way delay: 127.171 ms

Loss rate: 7.15%

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

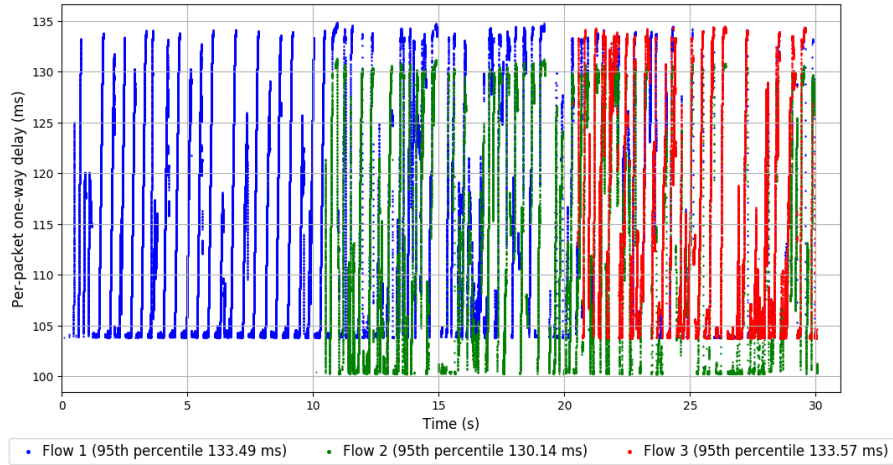
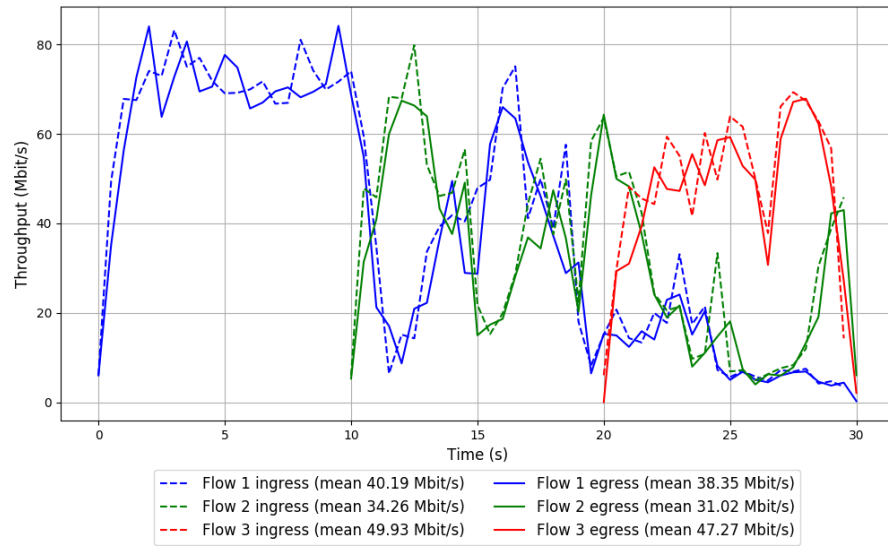


Run 9: Statistics of TaoVA-100x

Start at: 2018-04-17 19:51:58
End at: 2018-04-17 19:52:28
Local clock offset: -6.317 ms
Remote clock offset: 13.853 ms

Below is generated by plot.py at 2018-04-17 21:06:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 74.57 Mbit/s
95th percentile per-packet one-way delay: 133.275 ms
Loss rate: 6.24%
-- Flow 1:
Average throughput: 38.35 Mbit/s
95th percentile per-packet one-way delay: 133.493 ms
Loss rate: 4.75%
-- Flow 2:
Average throughput: 31.02 Mbit/s
95th percentile per-packet one-way delay: 130.137 ms
Loss rate: 9.45%
-- Flow 3:
Average throughput: 47.27 Mbit/s
95th percentile per-packet one-way delay: 133.566 ms
Loss rate: 5.43%

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

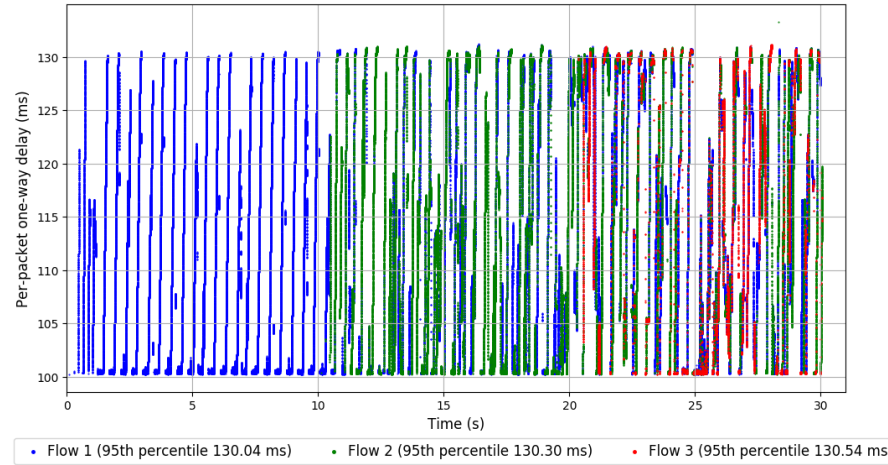
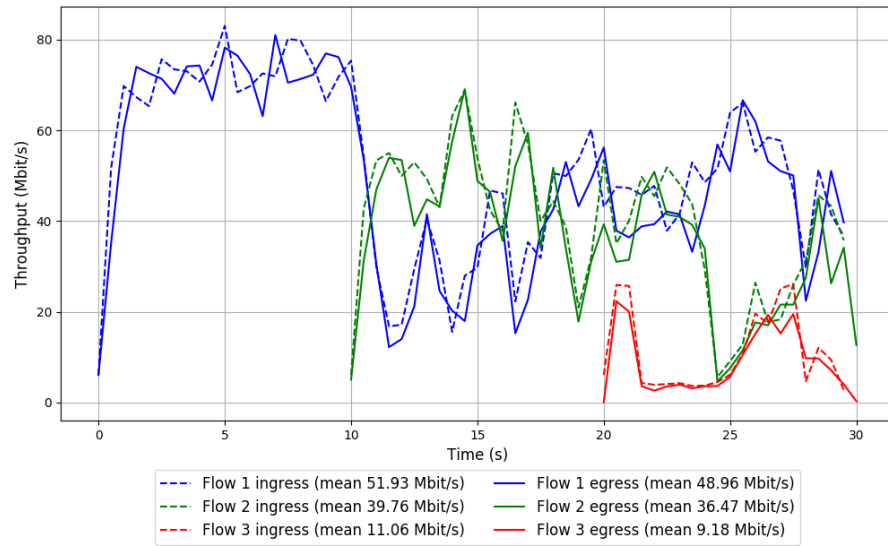


```
Run 10: Statistics of TaoVA-100x

Start at: 2018-04-17 20:14:34
End at: 2018-04-17 20:15:04
Local clock offset: -5.715 ms
Remote clock offset: 13.939 ms

# Below is generated by plot.py at 2018-04-17 21:06:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 76.14 Mbit/s
95th percentile per-packet one-way delay: 130.162 ms
Loss rate: 6.98%
-- Flow 1:
Average throughput: 48.96 Mbit/s
95th percentile per-packet one-way delay: 130.040 ms
Loss rate: 5.63%
-- Flow 2:
Average throughput: 36.47 Mbit/s
95th percentile per-packet one-way delay: 130.298 ms
Loss rate: 8.22%
-- Flow 3:
Average throughput: 9.18 Mbit/s
95th percentile per-packet one-way delay: 130.542 ms
Loss rate: 17.08%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2018-04-17 17:06:19

End at: 2018-04-17 17:06:49

Local clock offset: -4.761 ms

Remote clock offset: 10.49 ms

Below is generated by plot.py at 2018-04-17 21:06:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 59.00 Mbit/s

95th percentile per-packet one-way delay: 107.822 ms

Loss rate: 0.66%

-- Flow 1:

Average throughput: 28.73 Mbit/s

95th percentile per-packet one-way delay: 103.563 ms

Loss rate: 0.42%

-- Flow 2:

Average throughput: 28.26 Mbit/s

95th percentile per-packet one-way delay: 112.270 ms

Loss rate: 0.70%

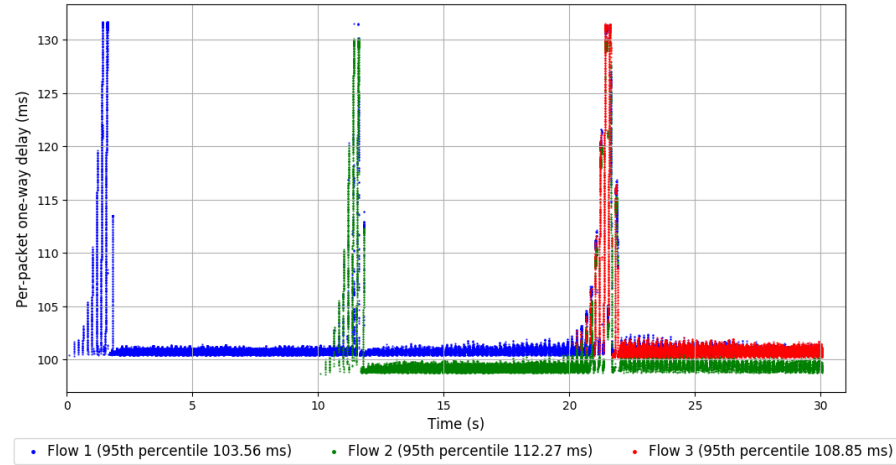
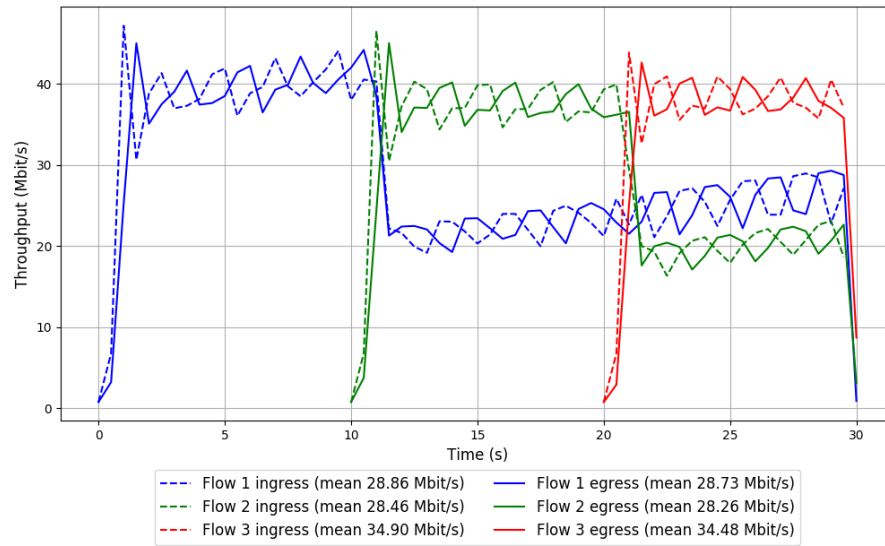
-- Flow 3:

Average throughput: 34.48 Mbit/s

95th percentile per-packet one-way delay: 108.846 ms

Loss rate: 1.20%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-04-17 17:28:39

End at: 2018-04-17 17:29:09

Local clock offset: -6.619 ms

Remote clock offset: 6.249 ms

Below is generated by plot.py at 2018-04-17 21:06:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 43.58 Mbit/s

95th percentile per-packet one-way delay: 120.951 ms

Loss rate: 1.06%

-- Flow 1:

Average throughput: 14.68 Mbit/s

95th percentile per-packet one-way delay: 108.805 ms

Loss rate: 1.29%

-- Flow 2:

Average throughput: 26.88 Mbit/s

95th percentile per-packet one-way delay: 123.879 ms

Loss rate: 0.72%

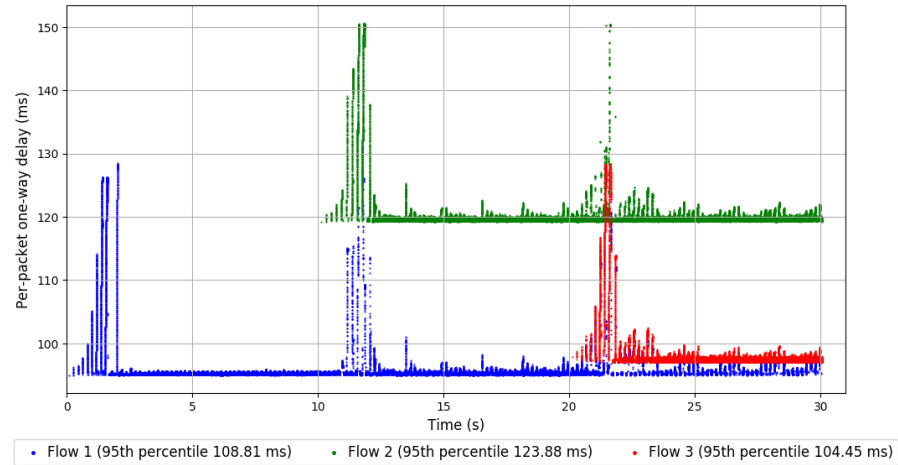
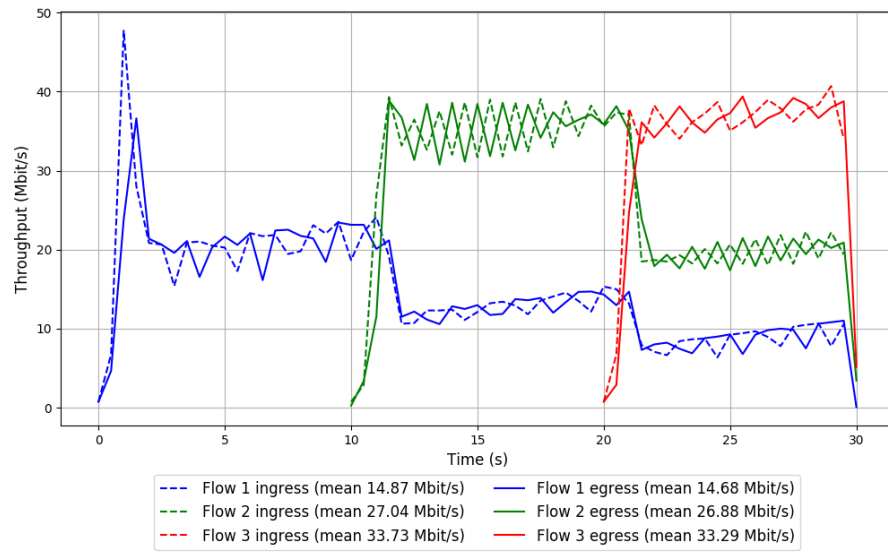
-- Flow 3:

Average throughput: 33.29 Mbit/s

95th percentile per-packet one-way delay: 104.454 ms

Loss rate: 1.31%

Run 2: Report of TCP Vegas — Data Link

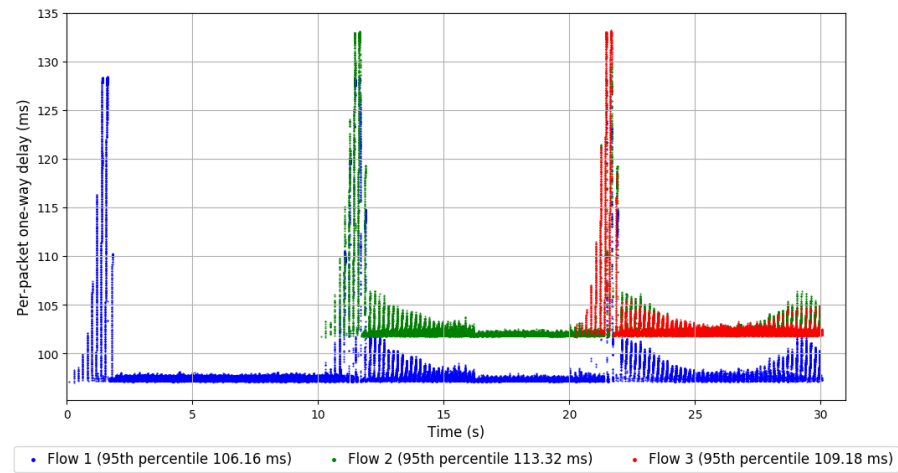
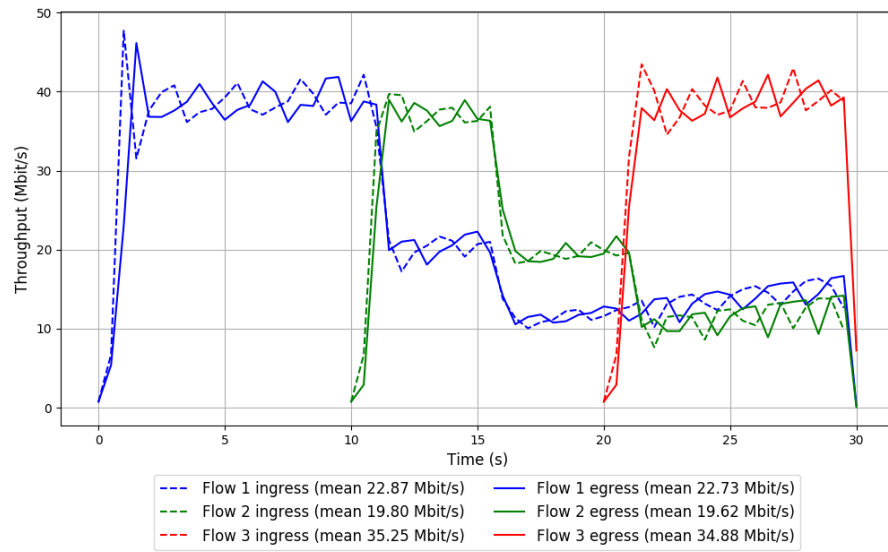


Run 3: Statistics of TCP Vegas

Start at: 2018-04-17 17:51:03
End at: 2018-04-17 17:51:33
Local clock offset: -5.133 ms
Remote clock offset: 11.602 ms

Below is generated by plot.py at 2018-04-17 21:06:24
Datalink statistics
-- Total of 3 flows:
Average throughput: 47.34 Mbit/s
95th percentile per-packet one-way delay: 109.495 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 22.73 Mbit/s
95th percentile per-packet one-way delay: 106.158 ms
Loss rate: 0.61%
-- Flow 2:
Average throughput: 19.62 Mbit/s
95th percentile per-packet one-way delay: 113.323 ms
Loss rate: 0.88%
-- Flow 3:
Average throughput: 34.88 Mbit/s
95th percentile per-packet one-way delay: 109.176 ms
Loss rate: 1.08%

Run 3: Report of TCP Vegas — Data Link

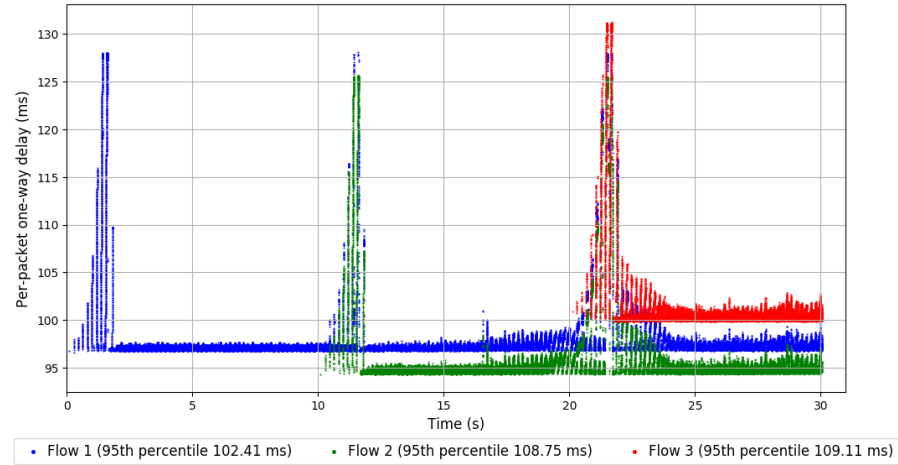
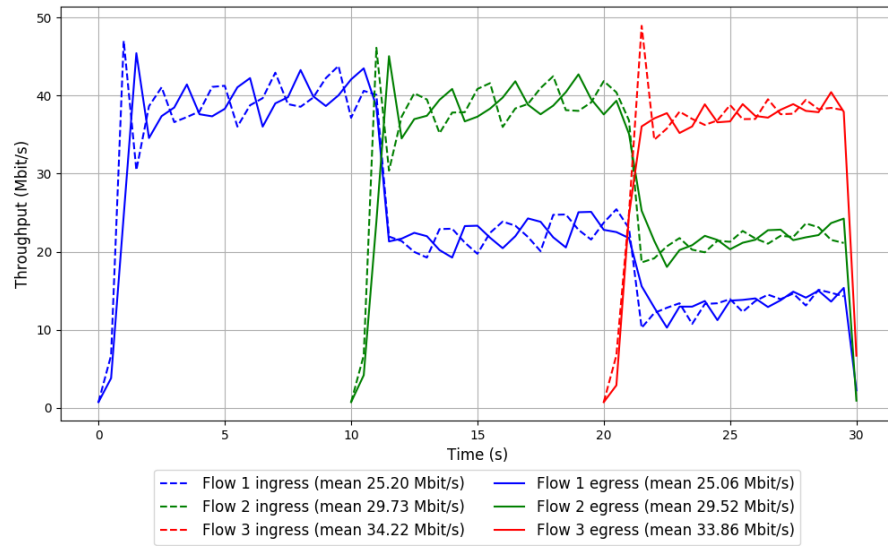


Run 4: Statistics of TCP Vegas

Start at: 2018-04-17 18:13:31
End at: 2018-04-17 18:14:01
Local clock offset: -5.783 ms
Remote clock offset: 4.939 ms

Below is generated by plot.py at 2018-04-17 21:06:24
Datalink statistics
-- Total of 3 flows:
Average throughput: 55.97 Mbit/s
95th percentile per-packet one-way delay: 105.524 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 25.06 Mbit/s
95th percentile per-packet one-way delay: 102.414 ms
Loss rate: 0.54%
-- Flow 2:
Average throughput: 29.52 Mbit/s
95th percentile per-packet one-way delay: 108.747 ms
Loss rate: 0.70%
-- Flow 3:
Average throughput: 33.86 Mbit/s
95th percentile per-packet one-way delay: 109.111 ms
Loss rate: 1.07%

Run 4: Report of TCP Vegas — Data Link

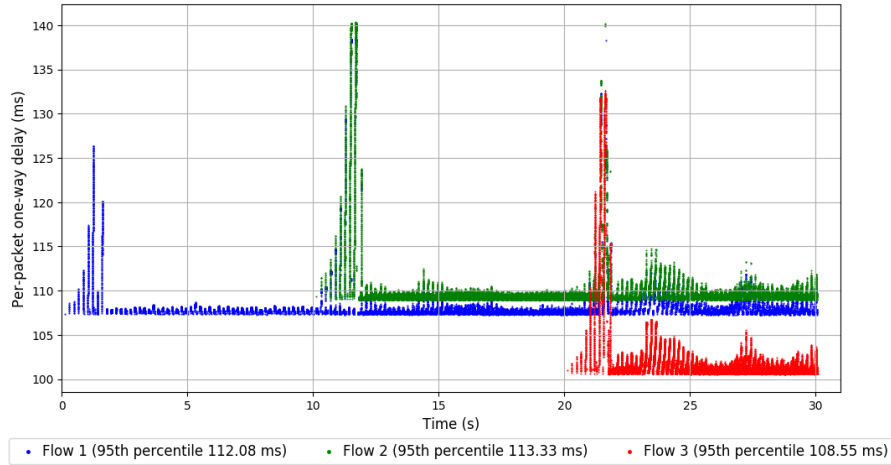
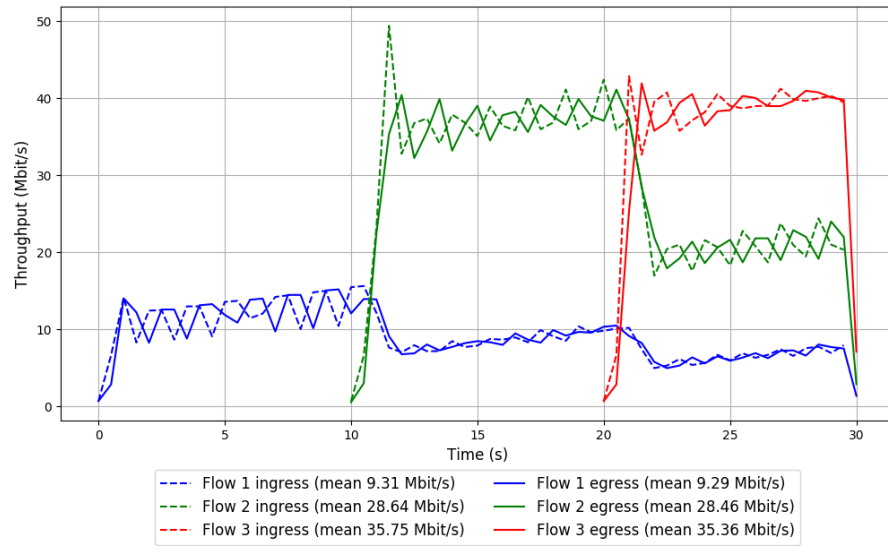


Run 5: Statistics of TCP Vegas

Start at: 2018-04-17 18:35:56
End at: 2018-04-17 18:36:26
Local clock offset: -5.915 ms
Remote clock offset: 11.068 ms

Below is generated by plot.py at 2018-04-17 21:06:24
Datalink statistics
-- Total of 3 flows:
Average throughput: 39.99 Mbit/s
95th percentile per-packet one-way delay: 112.273 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 9.29 Mbit/s
95th percentile per-packet one-way delay: 112.083 ms
Loss rate: 0.18%
-- Flow 2:
Average throughput: 28.46 Mbit/s
95th percentile per-packet one-way delay: 113.330 ms
Loss rate: 0.62%
-- Flow 3:
Average throughput: 35.36 Mbit/s
95th percentile per-packet one-way delay: 108.551 ms
Loss rate: 1.09%

Run 5: Report of TCP Vegas — Data Link

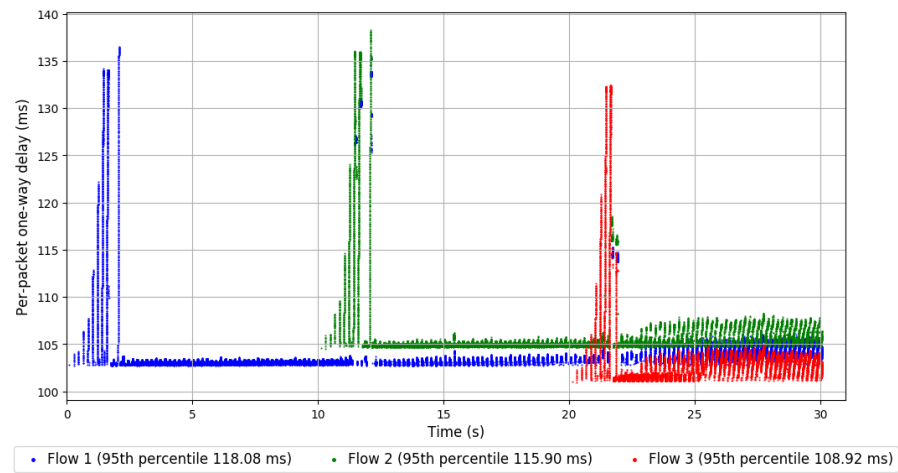
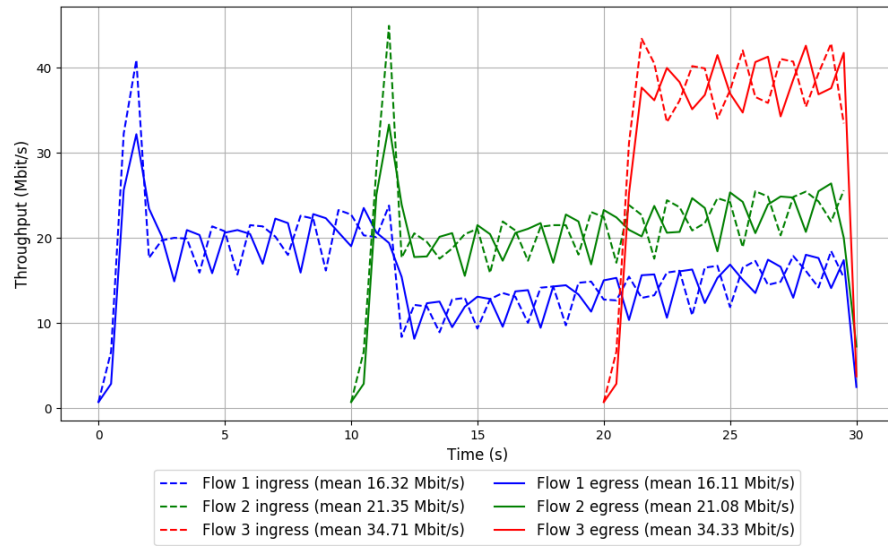


Run 6: Statistics of TCP Vegas

Start at: 2018-04-17 18:58:09
End at: 2018-04-17 18:58:39
Local clock offset: -4.754 ms
Remote clock offset: 10.873 ms

Below is generated by plot.py at 2018-04-17 21:06:24
Datalink statistics
-- Total of 3 flows:
Average throughput: 41.54 Mbit/s
95th percentile per-packet one-way delay: 115.042 ms
Loss rate: 1.25%
-- Flow 1:
Average throughput: 16.11 Mbit/s
95th percentile per-packet one-way delay: 118.083 ms
Loss rate: 1.31%
-- Flow 2:
Average throughput: 21.08 Mbit/s
95th percentile per-packet one-way delay: 115.901 ms
Loss rate: 1.31%
-- Flow 3:
Average throughput: 34.33 Mbit/s
95th percentile per-packet one-way delay: 108.922 ms
Loss rate: 1.08%

Run 6: Report of TCP Vegas — Data Link

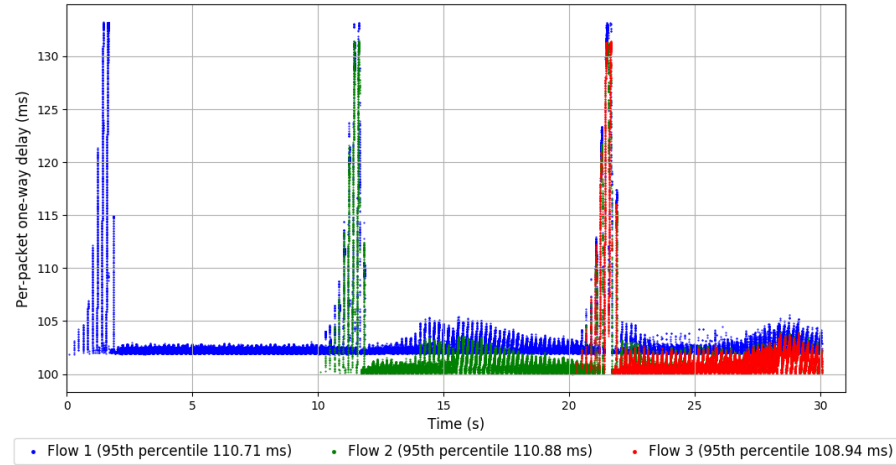
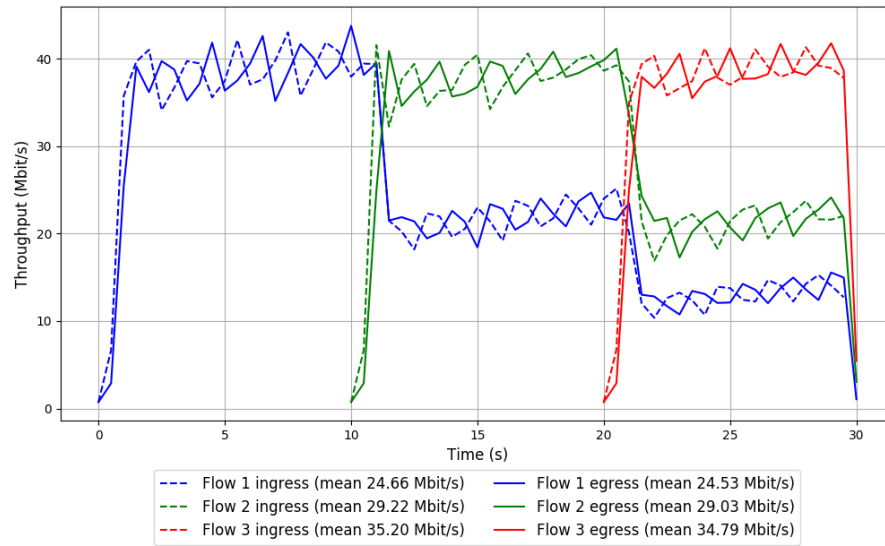


Run 7: Statistics of TCP Vegas

Start at: 2018-04-17 19:20:50
End at: 2018-04-17 19:21:20
Local clock offset: -4.715 ms
Remote clock offset: 11.557 ms

Below is generated by plot.py at 2018-04-17 21:06:24
Datalink statistics
-- Total of 3 flows:
Average throughput: 55.40 Mbit/s
95th percentile per-packet one-way delay: 110.445 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 24.53 Mbit/s
95th percentile per-packet one-way delay: 110.714 ms
Loss rate: 0.52%
-- Flow 2:
Average throughput: 29.03 Mbit/s
95th percentile per-packet one-way delay: 110.876 ms
Loss rate: 0.64%
-- Flow 3:
Average throughput: 34.79 Mbit/s
95th percentile per-packet one-way delay: 108.938 ms
Loss rate: 1.16%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-04-17 19:43:03

End at: 2018-04-17 19:43:33

Local clock offset: -6.642 ms

Remote clock offset: 7.589 ms

Below is generated by plot.py at 2018-04-17 21:06:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 51.67 Mbit/s

95th percentile per-packet one-way delay: 111.606 ms

Loss rate: 0.74%

-- Flow 1:

Average throughput: 22.71 Mbit/s

95th percentile per-packet one-way delay: 114.810 ms

Loss rate: 0.59%

-- Flow 2:

Average throughput: 27.31 Mbit/s

95th percentile per-packet one-way delay: 109.468 ms

Loss rate: 0.71%

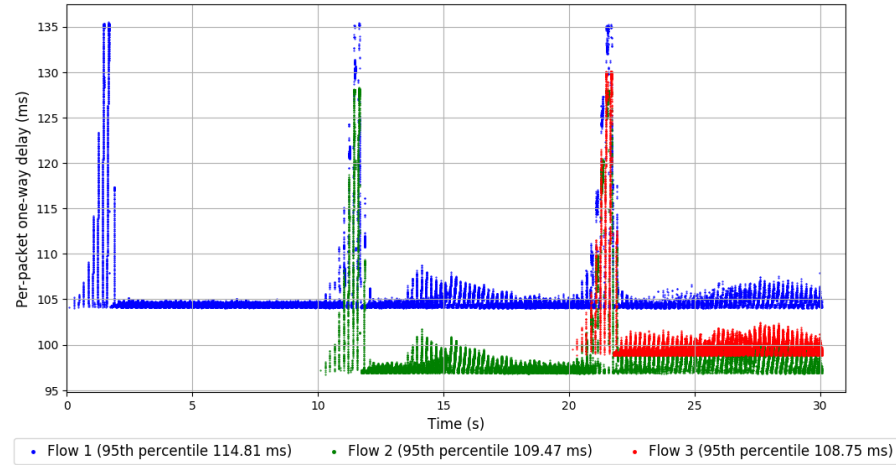
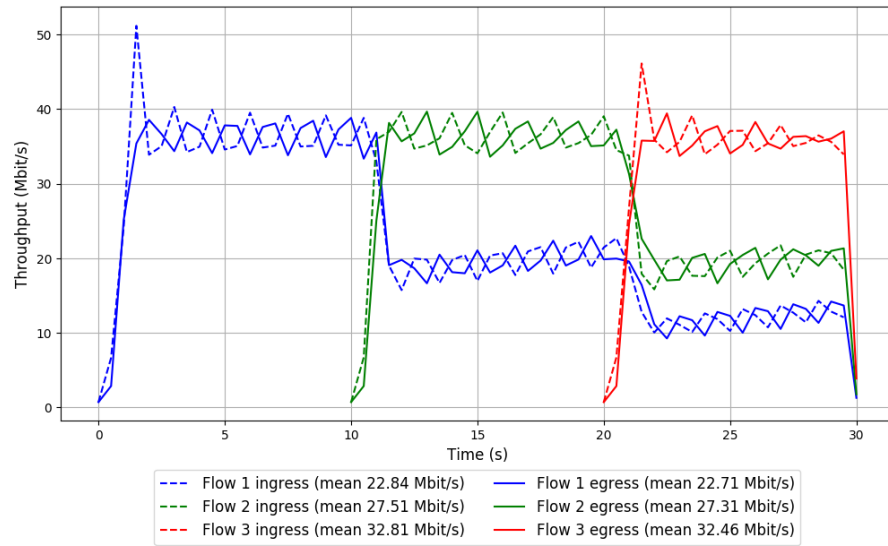
-- Flow 3:

Average throughput: 32.46 Mbit/s

95th percentile per-packet one-way delay: 108.751 ms

Loss rate: 1.10%

Run 8: Report of TCP Vegas — Data Link

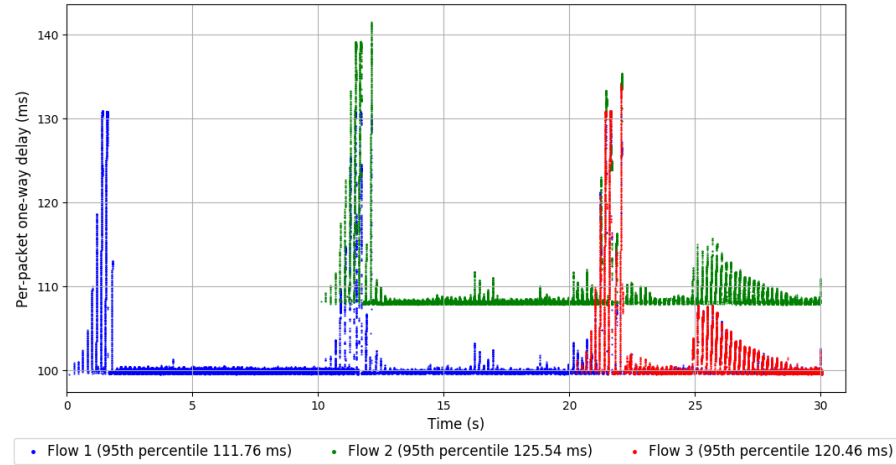
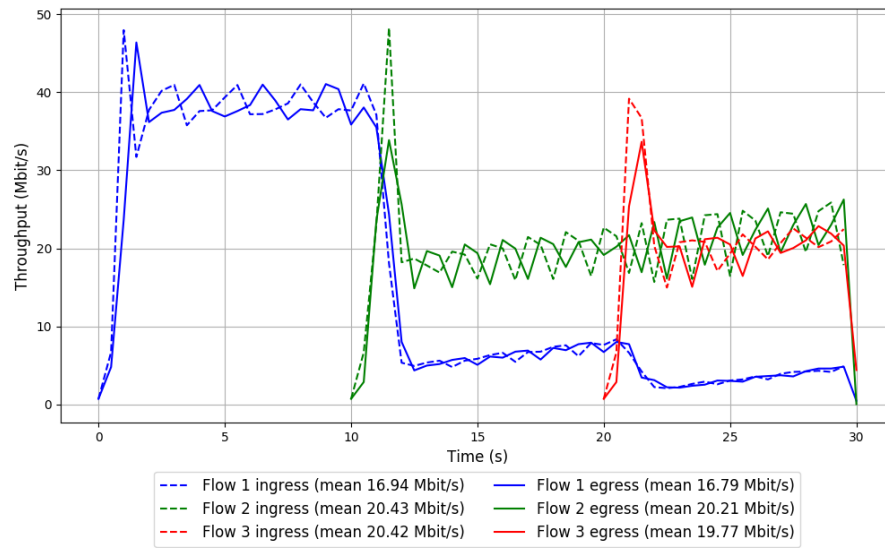


Run 9: Statistics of TCP Vegas

Start at: 2018-04-17 20:05:41
End at: 2018-04-17 20:06:11
Local clock offset: -6.517 ms
Remote clock offset: 13.611 ms

Below is generated by plot.py at 2018-04-17 21:06:24
Datalink statistics
-- Total of 3 flows:
Average throughput: 36.76 Mbit/s
95th percentile per-packet one-way delay: 118.917 ms
Loss rate: 1.38%
-- Flow 1:
Average throughput: 16.79 Mbit/s
95th percentile per-packet one-way delay: 111.762 ms
Loss rate: 0.91%
-- Flow 2:
Average throughput: 20.21 Mbit/s
95th percentile per-packet one-way delay: 125.538 ms
Loss rate: 1.06%
-- Flow 3:
Average throughput: 19.77 Mbit/s
95th percentile per-packet one-way delay: 120.457 ms
Loss rate: 3.19%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-04-17 20:28:09

End at: 2018-04-17 20:28:39

Local clock offset: -7.059 ms

Remote clock offset: 9.587 ms

Below is generated by plot.py at 2018-04-17 21:06:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 51.55 Mbit/s

95th percentile per-packet one-way delay: 109.944 ms

Loss rate: 1.01%

-- Flow 1:

Average throughput: 23.67 Mbit/s

95th percentile per-packet one-way delay: 105.371 ms

Loss rate: 1.01%

-- Flow 2:

Average throughput: 25.53 Mbit/s

95th percentile per-packet one-way delay: 111.007 ms

Loss rate: 0.81%

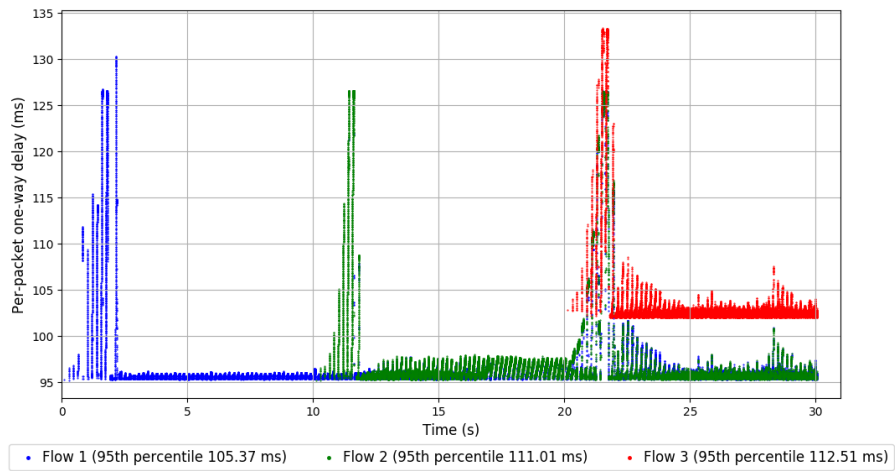
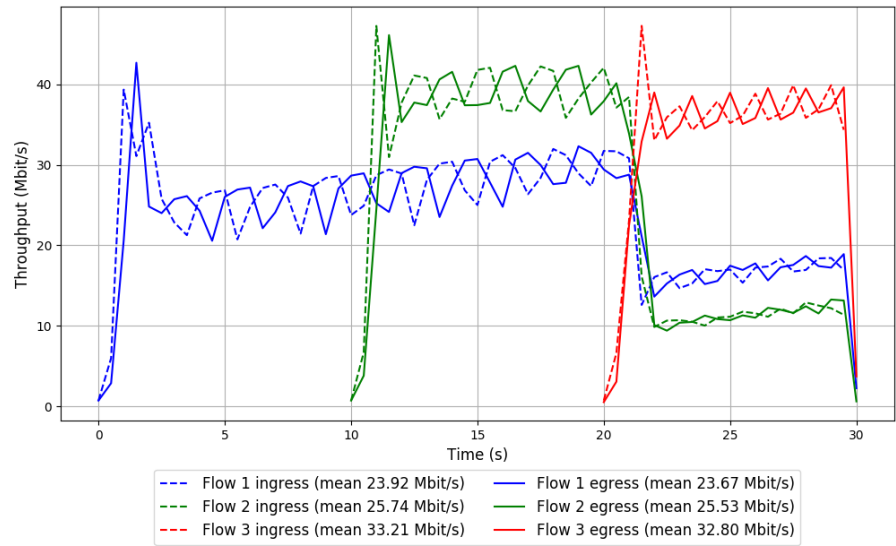
-- Flow 3:

Average throughput: 32.80 Mbit/s

95th percentile per-packet one-way delay: 112.510 ms

Loss rate: 1.30%

Run 10: Report of TCP Vegas — Data Link

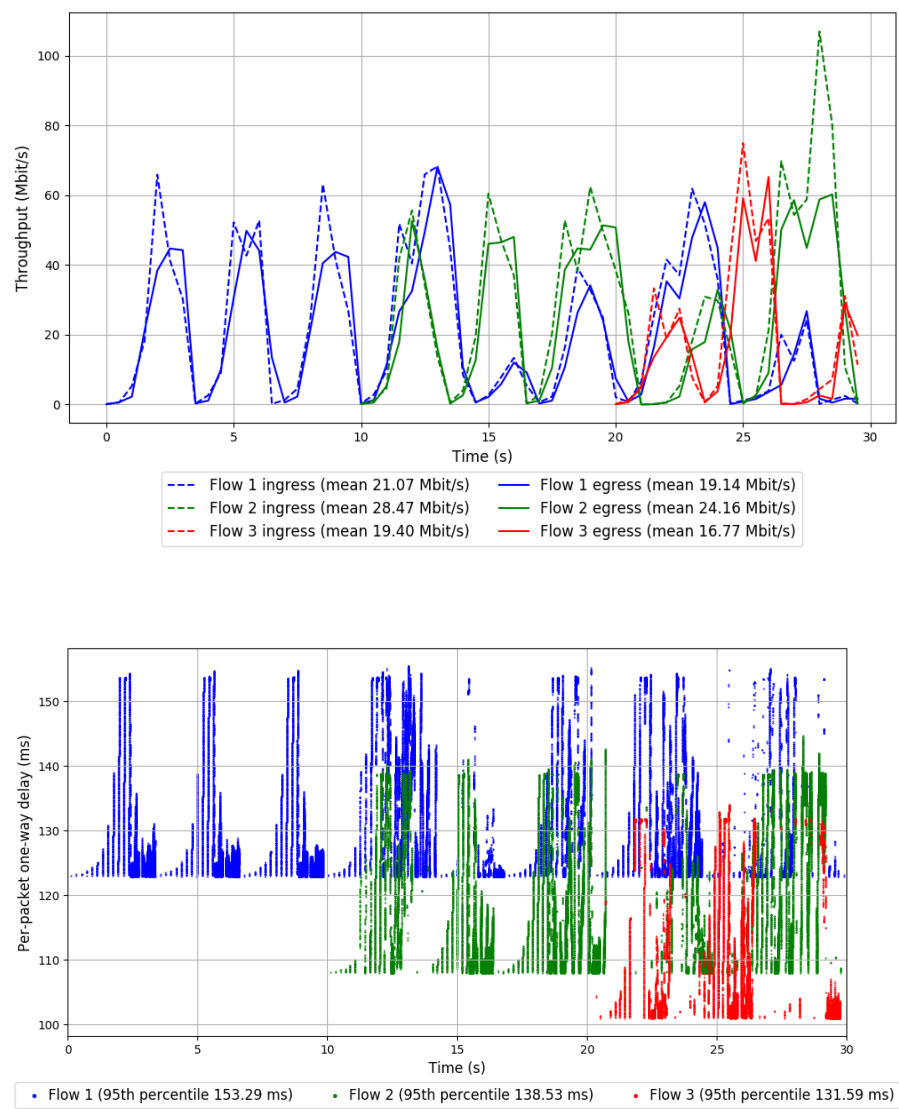


Run 1: Statistics of Verus

Start at: 2018-04-17 16:56:40
End at: 2018-04-17 16:57:10
Local clock offset: -4.824 ms
Remote clock offset: 10.238 ms

Below is generated by plot.py at 2018-04-17 21:06:24
Datalink statistics
-- Total of 3 flows:
Average throughput: 40.49 Mbit/s
95th percentile per-packet one-way delay: 150.030 ms
Loss rate: 12.21%
-- Flow 1:
Average throughput: 19.14 Mbit/s
95th percentile per-packet one-way delay: 153.292 ms
Loss rate: 9.13%
-- Flow 2:
Average throughput: 24.16 Mbit/s
95th percentile per-packet one-way delay: 138.525 ms
Loss rate: 15.13%
-- Flow 3:
Average throughput: 16.77 Mbit/s
95th percentile per-packet one-way delay: 131.585 ms
Loss rate: 13.79%

Run 1: Report of Verus — Data Link

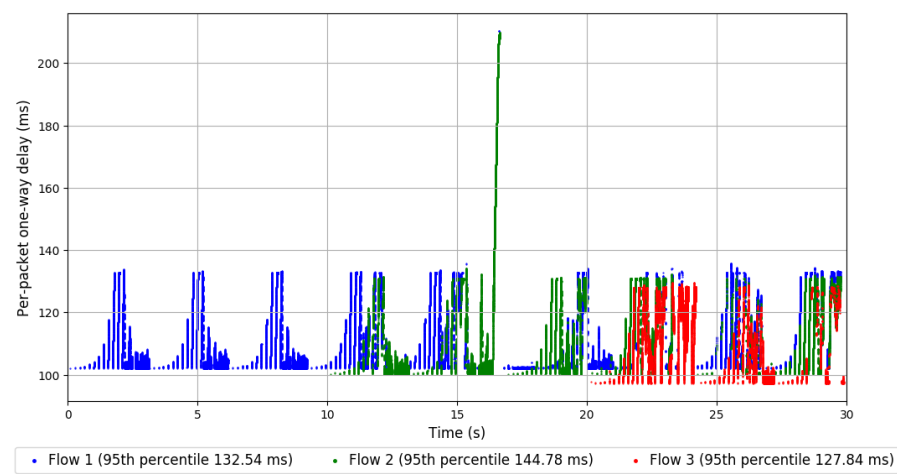
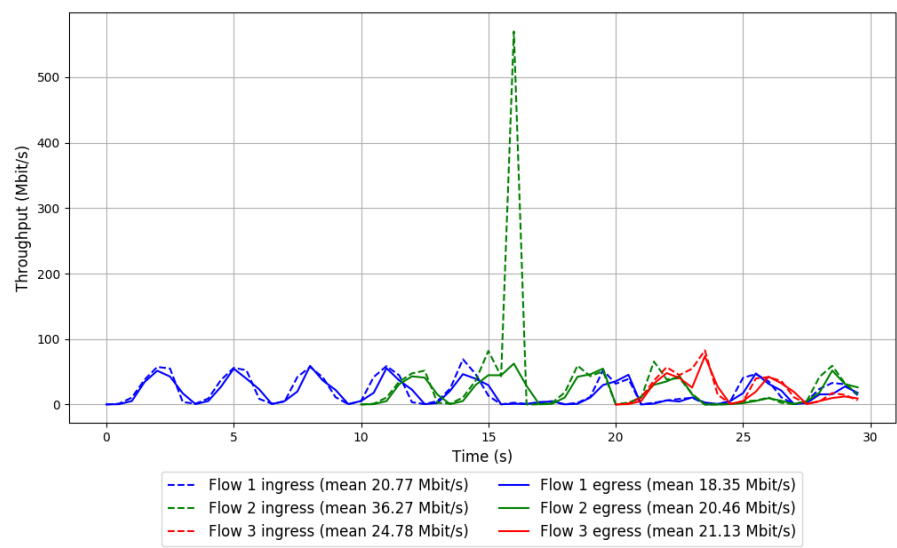


Run 2: Statistics of Verus

Start at: 2018-04-17 17:19:12
End at: 2018-04-17 17:19:42
Local clock offset: -5.93 ms
Remote clock offset: 9.787 ms

Below is generated by plot.py at 2018-04-17 21:06:24
Datalink statistics
-- Total of 3 flows:
Average throughput: 38.69 Mbit/s
95th percentile per-packet one-way delay: 132.441 ms
Loss rate: 26.53%
-- Flow 1:
Average throughput: 18.35 Mbit/s
95th percentile per-packet one-way delay: 132.544 ms
Loss rate: 11.55%
-- Flow 2:
Average throughput: 20.46 Mbit/s
95th percentile per-packet one-way delay: 144.781 ms
Loss rate: 43.49%
-- Flow 3:
Average throughput: 21.13 Mbit/s
95th percentile per-packet one-way delay: 127.842 ms
Loss rate: 14.74%

Run 2: Report of Verus — Data Link

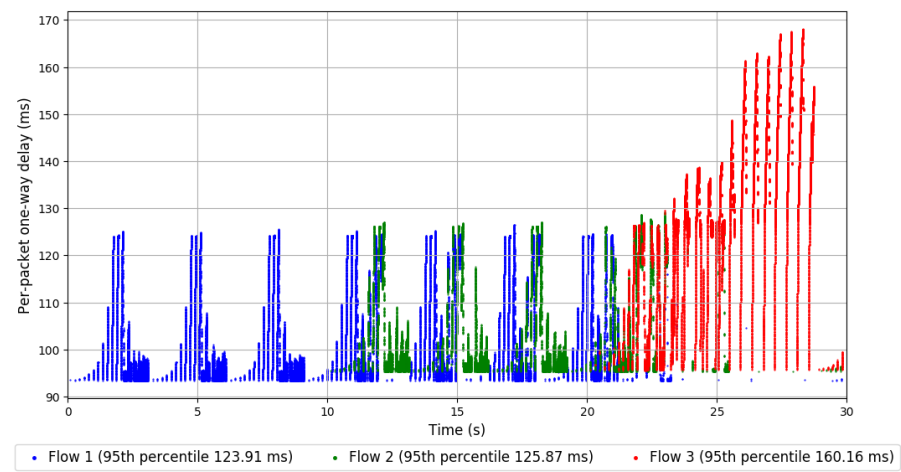
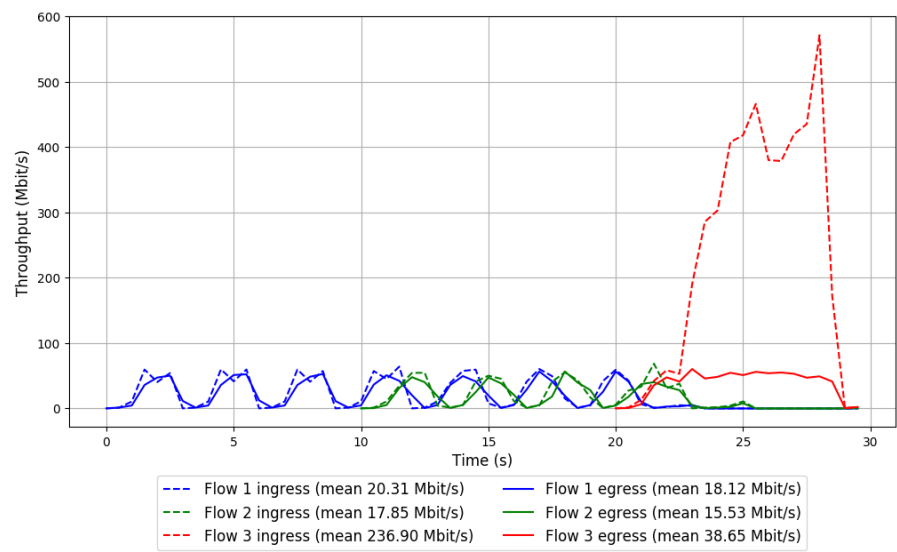


Run 3: Statistics of Verus

Start at: 2018-04-17 17:41:29
End at: 2018-04-17 17:41:59
Local clock offset: -5.896 ms
Remote clock offset: 5.719 ms

Below is generated by plot.py at 2018-04-17 21:06:42
Datalink statistics
-- Total of 3 flows:
Average throughput: 40.98 Mbit/s
95th percentile per-packet one-way delay: 149.008 ms
Loss rate: 62.54%
-- Flow 1:
Average throughput: 18.12 Mbit/s
95th percentile per-packet one-way delay: 123.910 ms
Loss rate: 10.80%
-- Flow 2:
Average throughput: 15.53 Mbit/s
95th percentile per-packet one-way delay: 125.871 ms
Loss rate: 12.97%
-- Flow 3:
Average throughput: 38.65 Mbit/s
95th percentile per-packet one-way delay: 160.155 ms
Loss rate: 83.68%

Run 3: Report of Verus — Data Link

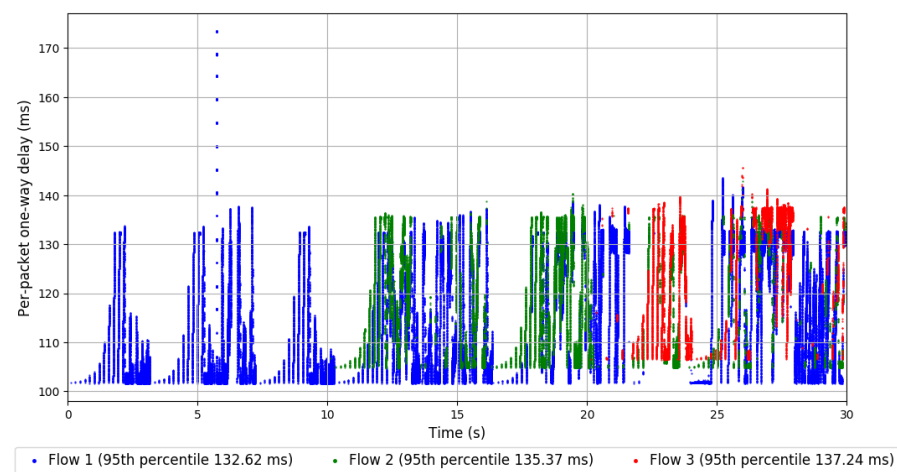
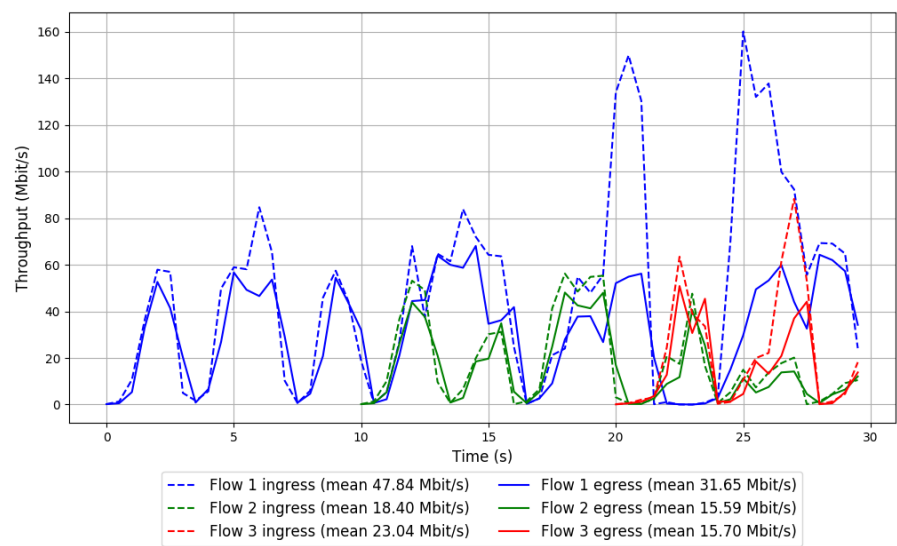


Run 4: Statistics of Verus

Start at: 2018-04-17 18:03:56
End at: 2018-04-17 18:04:26
Local clock offset: -5.317 ms
Remote clock offset: 10.872 ms

Below is generated by plot.py at 2018-04-17 21:06:42
Datalink statistics
-- Total of 3 flows:
Average throughput: 47.13 Mbit/s
95th percentile per-packet one-way delay: 135.336 ms
Loss rate: 30.17%
-- Flow 1:
Average throughput: 31.65 Mbit/s
95th percentile per-packet one-way delay: 132.618 ms
Loss rate: 33.78%
-- Flow 2:
Average throughput: 15.59 Mbit/s
95th percentile per-packet one-way delay: 135.374 ms
Loss rate: 15.14%
-- Flow 3:
Average throughput: 15.70 Mbit/s
95th percentile per-packet one-way delay: 137.239 ms
Loss rate: 31.64%

Run 4: Report of Verus — Data Link

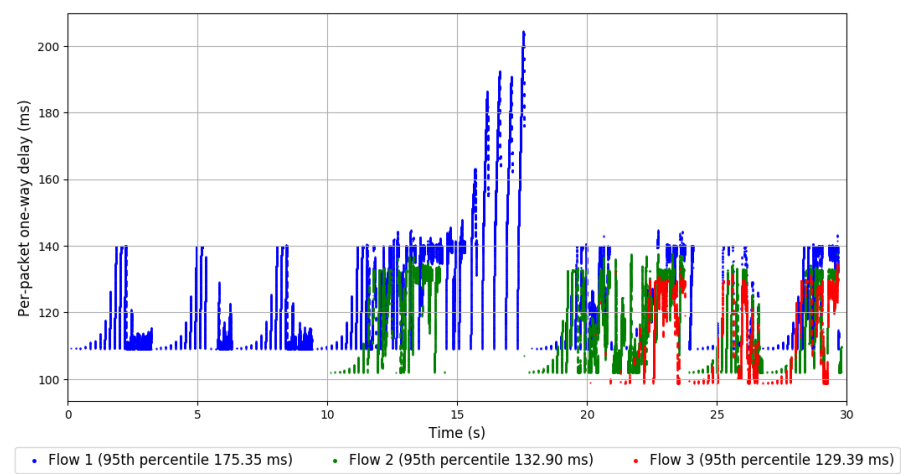
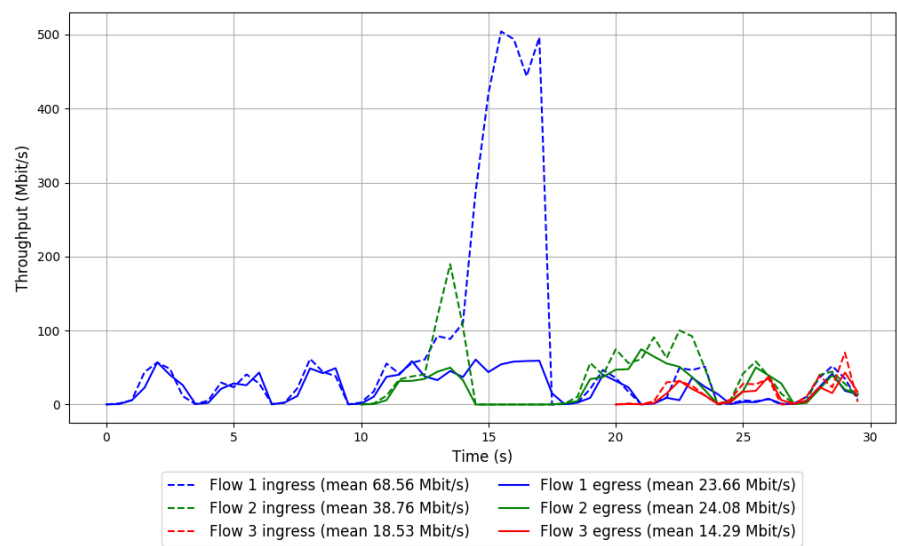


Run 5: Statistics of Verus

Start at: 2018-04-17 18:26:23
End at: 2018-04-17 18:26:53
Local clock offset: -4.737 ms
Remote clock offset: 11.131 ms

Below is generated by plot.py at 2018-04-17 21:06:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 44.15 Mbit/s
95th percentile per-packet one-way delay: 158.894 ms
Loss rate: 56.04%
-- Flow 1:
Average throughput: 23.66 Mbit/s
95th percentile per-packet one-way delay: 175.348 ms
Loss rate: 65.70%
-- Flow 2:
Average throughput: 24.08 Mbit/s
95th percentile per-packet one-way delay: 132.898 ms
Loss rate: 37.88%
-- Flow 3:
Average throughput: 14.29 Mbit/s
95th percentile per-packet one-way delay: 129.388 ms
Loss rate: 22.65%

Run 5: Report of Verus — Data Link

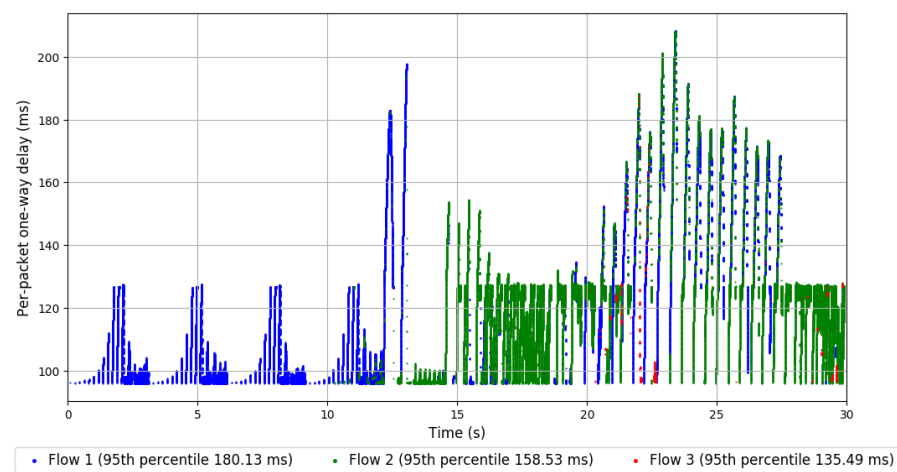
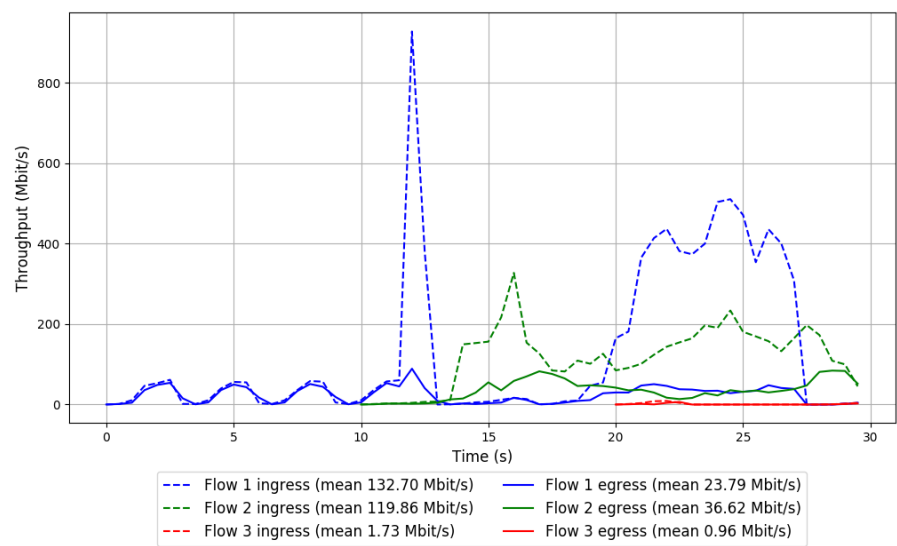


Run 6: Statistics of Verus

Start at: 2018-04-17 18:48:48
End at: 2018-04-17 18:49:18
Local clock offset: -6.269 ms
Remote clock offset: 5.93 ms

Below is generated by plot.py at 2018-04-17 21:07:25
Datalink statistics
-- Total of 3 flows:
Average throughput: 48.32 Mbit/s
95th percentile per-packet one-way delay: 174.909 ms
Loss rate: 77.22%
-- Flow 1:
Average throughput: 23.79 Mbit/s
95th percentile per-packet one-way delay: 180.129 ms
Loss rate: 82.07%
-- Flow 2:
Average throughput: 36.62 Mbit/s
95th percentile per-packet one-way delay: 158.529 ms
Loss rate: 69.41%
-- Flow 3:
Average throughput: 0.96 Mbit/s
95th percentile per-packet one-way delay: 135.492 ms
Loss rate: 44.82%

Run 6: Report of Verus — Data Link

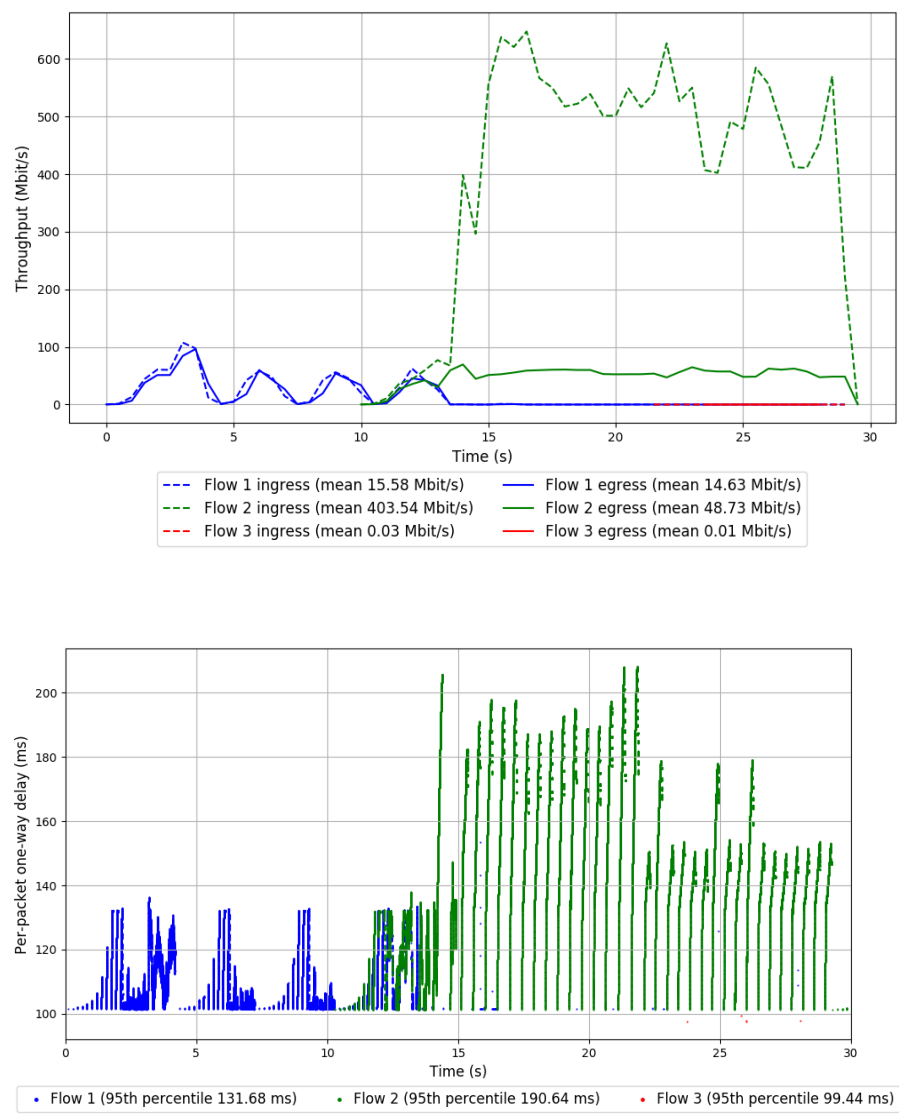


Run 7: Statistics of Verus

Start at: 2018-04-17 19:11:03
End at: 2018-04-17 19:11:33
Local clock offset: -4.72 ms
Remote clock offset: 10.782 ms

Below is generated by plot.py at 2018-04-17 21:07:44
Datalink statistics
-- Total of 3 flows:
Average throughput: 46.13 Mbit/s
95th percentile per-packet one-way delay: 187.226 ms
Loss rate: 83.70%
-- Flow 1:
Average throughput: 14.63 Mbit/s
95th percentile per-packet one-way delay: 131.679 ms
Loss rate: 9.29%
-- Flow 2:
Average throughput: 48.73 Mbit/s
95th percentile per-packet one-way delay: 190.641 ms
Loss rate: 87.93%
-- Flow 3:
Average throughput: 0.01 Mbit/s
95th percentile per-packet one-way delay: 99.444 ms
Loss rate: 72.22%

Run 7: Report of Verus — Data Link

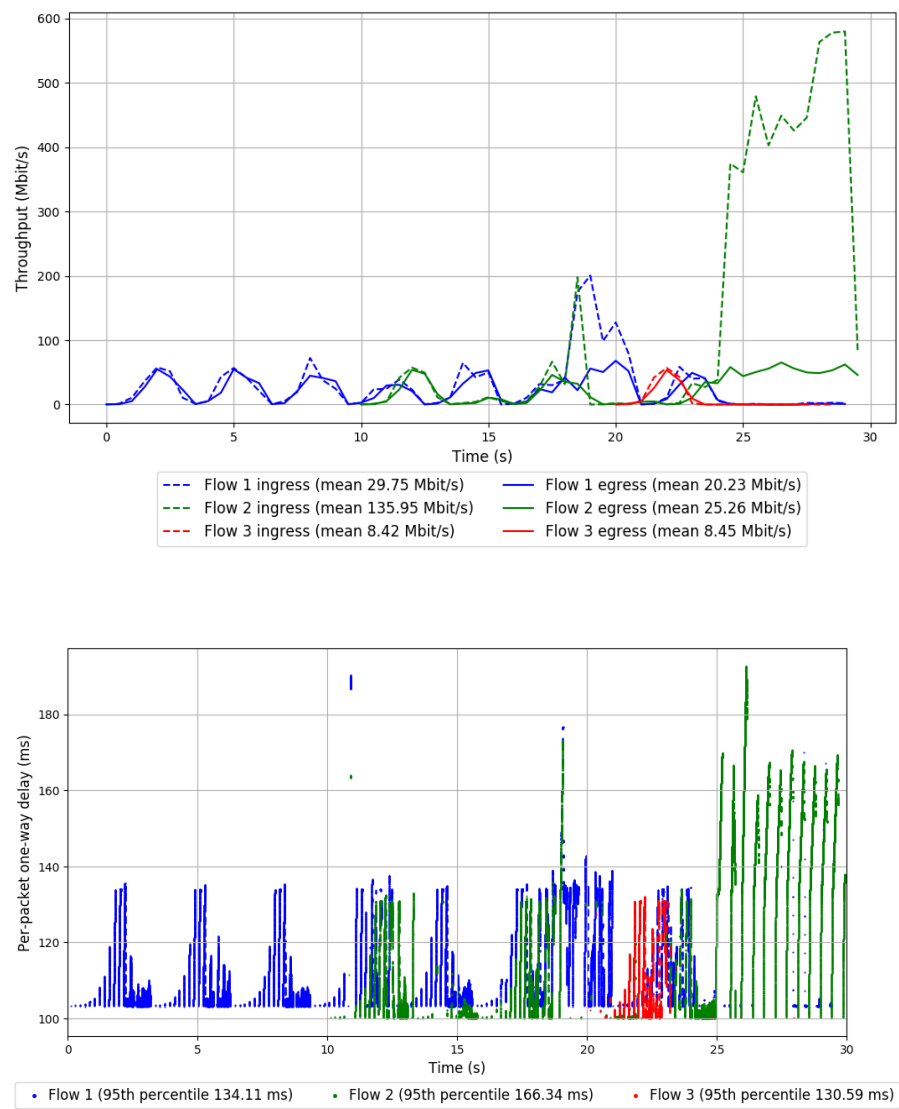


Run 8: Statistics of Verus

Start at: 2018-04-17 19:33:43
End at: 2018-04-17 19:34:13
Local clock offset: -4.698 ms
Remote clock offset: 10.799 ms

Below is generated by plot.py at 2018-04-17 21:07:44
Datalink statistics
-- Total of 3 flows:
Average throughput: 38.95 Mbit/s
95th percentile per-packet one-way delay: 161.558 ms
Loss rate: 68.07%
-- Flow 1:
Average throughput: 20.23 Mbit/s
95th percentile per-packet one-way delay: 134.106 ms
Loss rate: 31.93%
-- Flow 2:
Average throughput: 25.26 Mbit/s
95th percentile per-packet one-way delay: 166.338 ms
Loss rate: 81.38%
-- Flow 3:
Average throughput: 8.45 Mbit/s
95th percentile per-packet one-way delay: 130.587 ms
Loss rate: 11.77%

Run 8: Report of Verus — Data Link

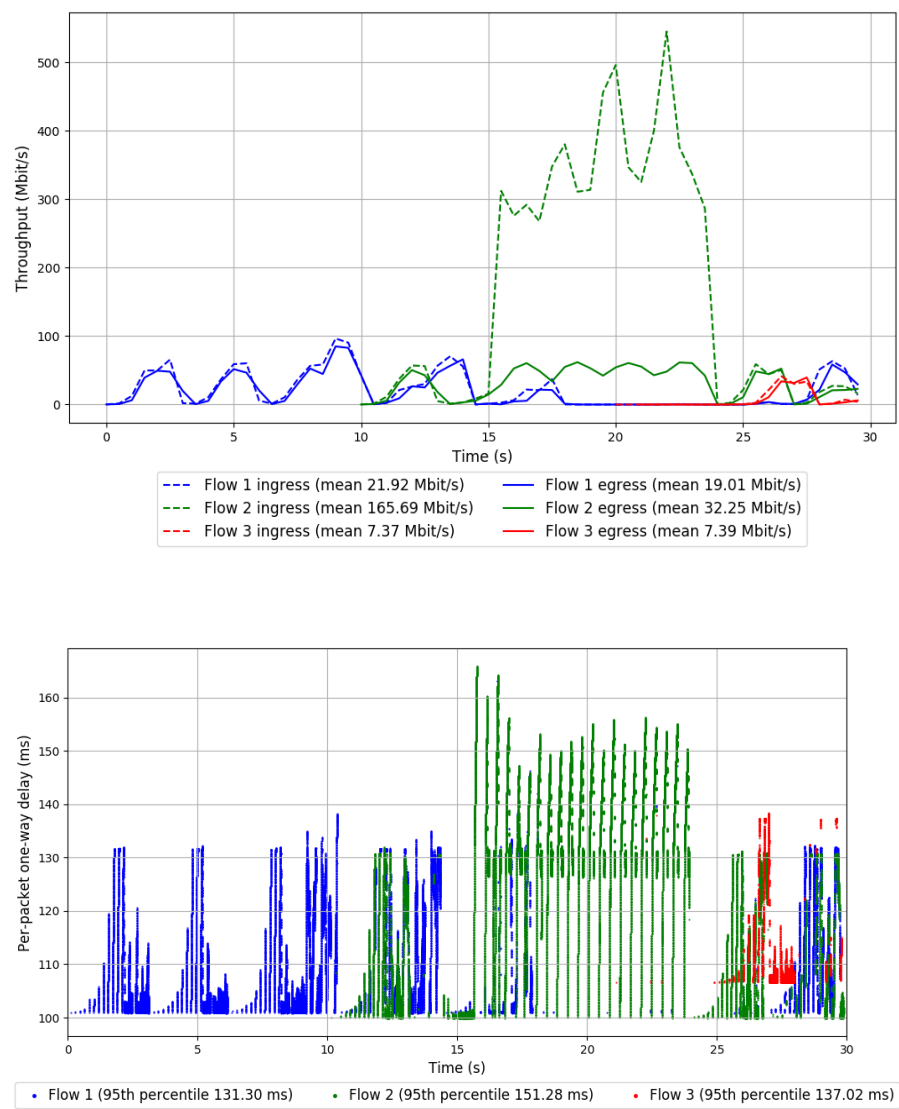


Run 9: Statistics of Verus

Start at: 2018-04-17 19:55:57
End at: 2018-04-17 19:56:27
Local clock offset: -6.321 ms
Remote clock offset: 13.273 ms

Below is generated by plot.py at 2018-04-17 21:07:44
Datalink statistics
-- Total of 3 flows:
Average throughput: 42.44 Mbit/s
95th percentile per-packet one-way delay: 148.319 ms
Loss rate: 68.33%
-- Flow 1:
Average throughput: 19.01 Mbit/s
95th percentile per-packet one-way delay: 131.300 ms
Loss rate: 13.27%
-- Flow 2:
Average throughput: 32.25 Mbit/s
95th percentile per-packet one-way delay: 151.282 ms
Loss rate: 80.53%
-- Flow 3:
Average throughput: 7.39 Mbit/s
95th percentile per-packet one-way delay: 137.023 ms
Loss rate: 9.95%

Run 9: Report of Verus — Data Link

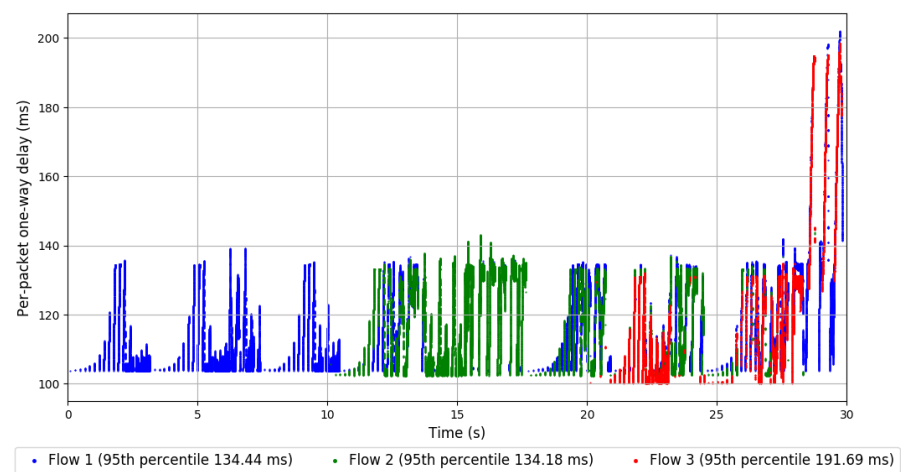
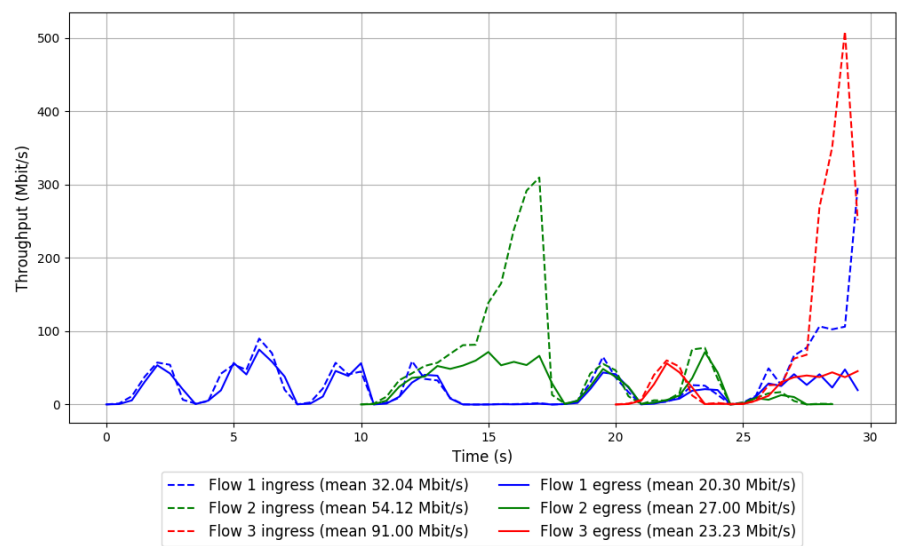


Run 10: Statistics of Verus

Start at: 2018-04-17 20:18:33
End at: 2018-04-17 20:19:04
Local clock offset: -6.33 ms
Remote clock offset: 14.934 ms

Below is generated by plot.py at 2018-04-17 21:07:44
Datalink statistics
-- Total of 3 flows:
Average throughput: 44.79 Mbit/s
95th percentile per-packet one-way delay: 140.471 ms
Loss rate: 52.97%
-- Flow 1:
Average throughput: 20.30 Mbit/s
95th percentile per-packet one-way delay: 134.440 ms
Loss rate: 36.55%
-- Flow 2:
Average throughput: 27.00 Mbit/s
95th percentile per-packet one-way delay: 134.178 ms
Loss rate: 50.01%
-- Flow 3:
Average throughput: 23.23 Mbit/s
95th percentile per-packet one-way delay: 191.692 ms
Loss rate: 74.26%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2018-04-17 16:59:18

End at: 2018-04-17 16:59:48

Local clock offset: -5.845 ms

Remote clock offset: 9.535 ms

Below is generated by plot.py at 2018-04-17 21:15:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 90.73 Mbit/s

95th percentile per-packet one-way delay: 137.479 ms

Loss rate: 91.29%

-- Flow 1:

Average throughput: 60.14 Mbit/s

95th percentile per-packet one-way delay: 129.825 ms

Loss rate: 88.37%

-- Flow 2:

Average throughput: 45.94 Mbit/s

95th percentile per-packet one-way delay: 137.608 ms

Loss rate: 94.17%

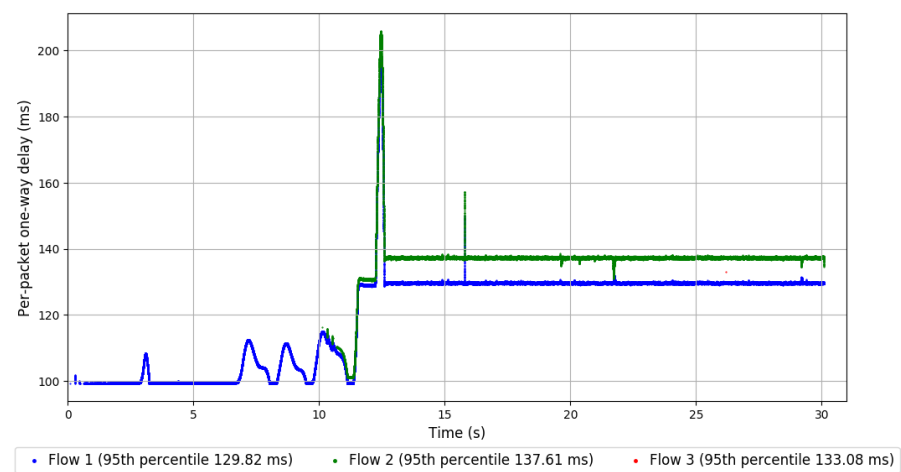
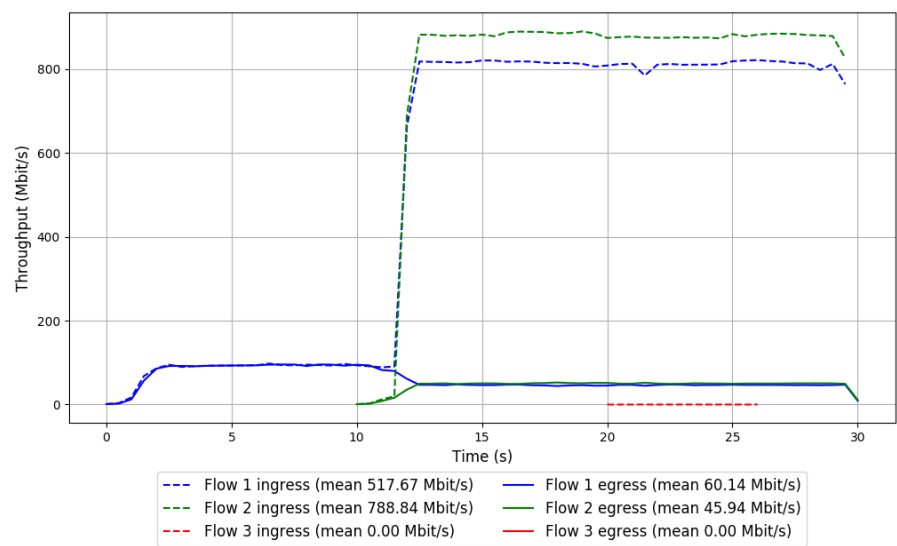
-- Flow 3:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 133.084 ms

Loss rate: 75.00%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

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

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

Local clock offset: -5.199 ms

Remote clock offset: 5.093 ms

Below is generated by plot.py at 2018-04-17 21:15:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 90.60 Mbit/s

95th percentile per-packet one-way delay: 127.535 ms

Loss rate: 84.22%

-- Flow 1:

Average throughput: 90.39 Mbit/s

95th percentile per-packet one-way delay: 127.535 ms

Loss rate: 84.24%

-- Flow 2:

Average throughput: 0.35 Mbit/s

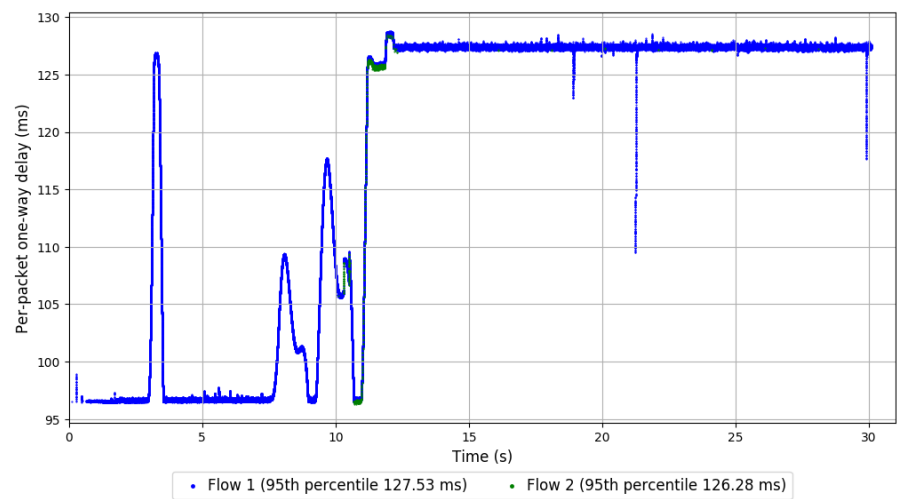
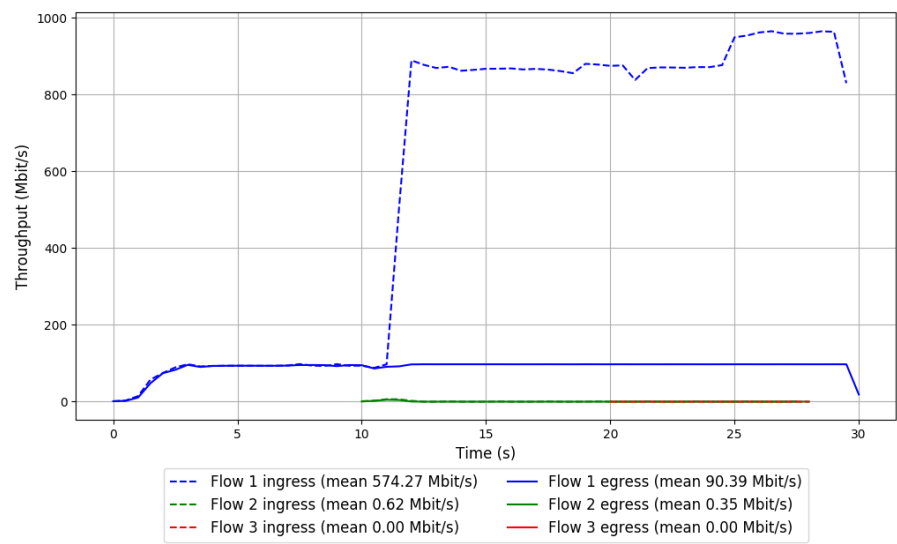
95th percentile per-packet one-way delay: 126.275 ms

Loss rate: 43.86%

-- Flow 3:

Average throughput: 0.00 Mbit/s

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-04-17 17:44:08

End at: 2018-04-17 17:44:38

Local clock offset: -6.625 ms

Remote clock offset: 5.852 ms

Below is generated by plot.py at 2018-04-17 21:15:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.72 Mbit/s

95th percentile per-packet one-way delay: 147.973 ms

Loss rate: 88.63%

-- Flow 1:

Average throughput: 91.71 Mbit/s

95th percentile per-packet one-way delay: 147.973 ms

Loss rate: 88.63%

-- Flow 2:

Average throughput: 0.01 Mbit/s

95th percentile per-packet one-way delay: 124.148 ms

Loss rate: 93.38%

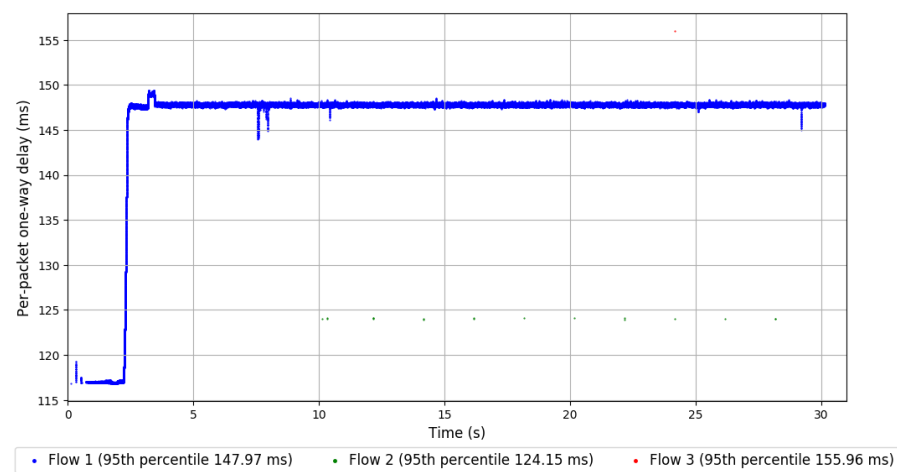
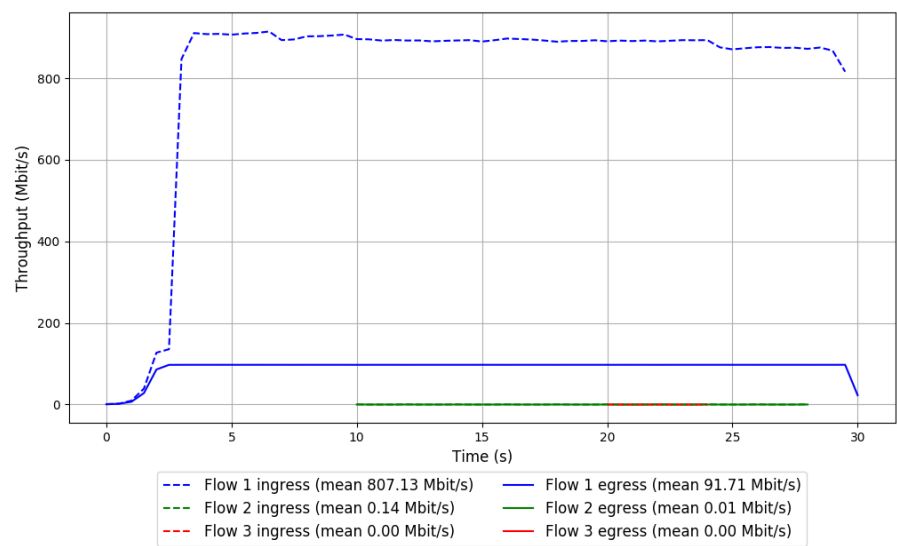
-- Flow 3:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 155.963 ms

Loss rate: 66.67%

Run 3: Report of Copa — Data Link

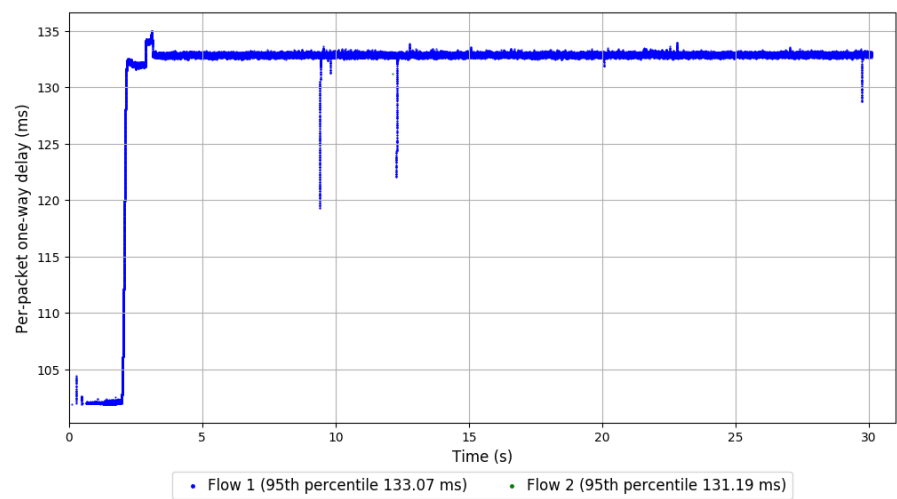
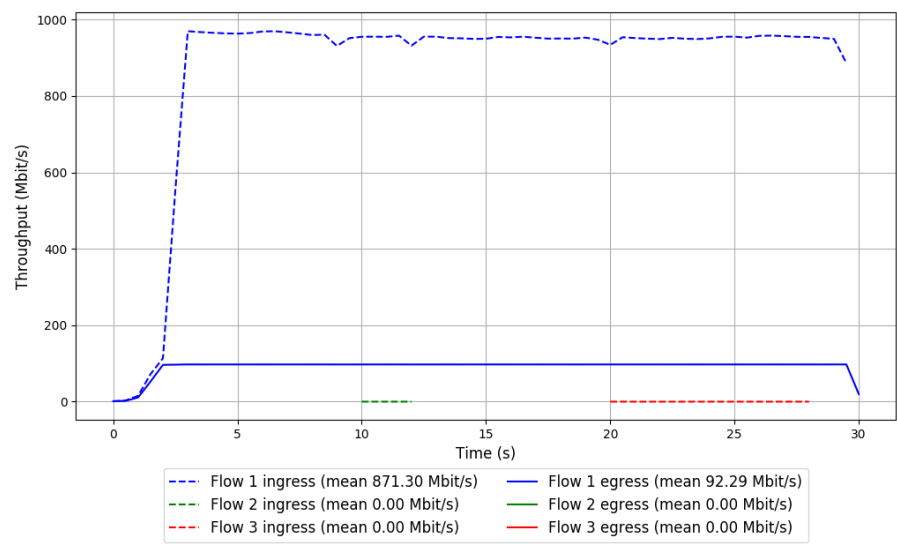


Run 4: Statistics of Copa

Start at: 2018-04-17 18:06:35
End at: 2018-04-17 18:07:05
Local clock offset: -5.982 ms
Remote clock offset: 10.764 ms

Below is generated by plot.py at 2018-04-17 21:15:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 92.29 Mbit/s
95th percentile per-packet one-way delay: 133.066 ms
Loss rate: 89.40%
-- Flow 1:
Average throughput: 92.29 Mbit/s
95th percentile per-packet one-way delay: 133.066 ms
Loss rate: 89.40%
-- Flow 2:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 131.194 ms
Loss rate: 50.00%
-- Flow 3:
Average throughput: 0.00 Mbit/s

Run 4: Report of Copa — Data Link

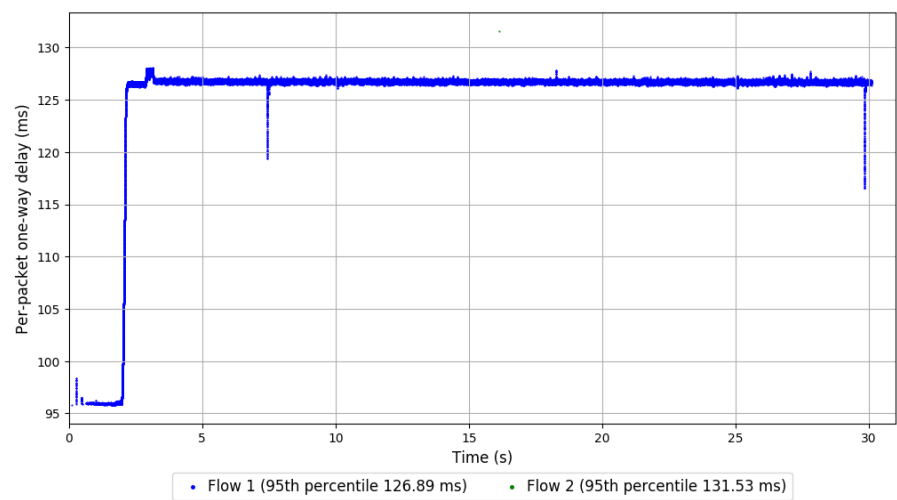
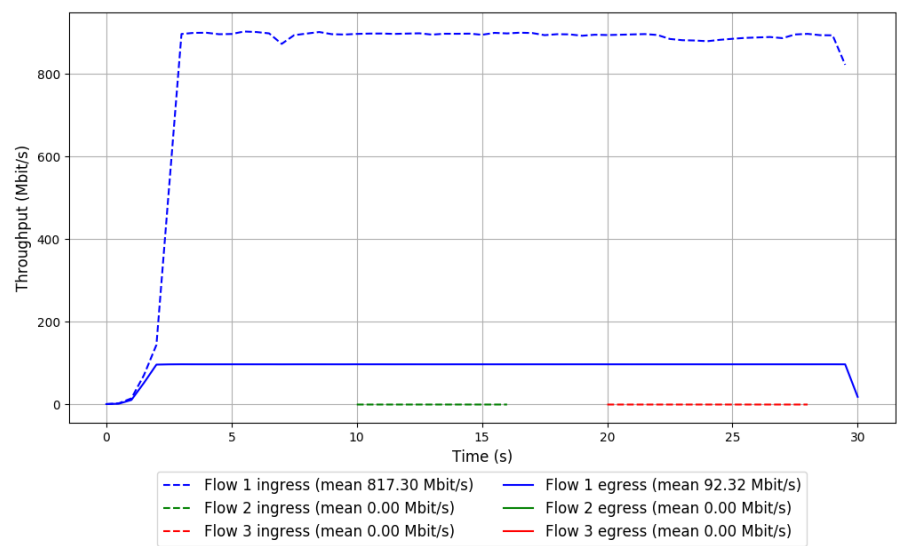


Run 5: Statistics of Copa

Start at: 2018-04-17 18:29:02
End at: 2018-04-17 18:29:32
Local clock offset: -3.951 ms
Remote clock offset: 5.503 ms

Below is generated by plot.py at 2018-04-17 21:15:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 92.32 Mbit/s
95th percentile per-packet one-way delay: 126.894 ms
Loss rate: 88.69%
-- Flow 1:
Average throughput: 92.32 Mbit/s
95th percentile per-packet one-way delay: 126.894 ms
Loss rate: 88.69%
-- Flow 2:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 131.525 ms
Loss rate: 75.00%
-- Flow 3:
Average throughput: 0.00 Mbit/s

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-04-17 18:51:28

End at: 2018-04-17 18:51:58

Local clock offset: -4.722 ms

Remote clock offset: 5.973 ms

Below is generated by plot.py at 2018-04-17 21:15:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.43 Mbit/s

95th percentile per-packet one-way delay: 114.861 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 72.78 Mbit/s

95th percentile per-packet one-way delay: 114.846 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 18.49 Mbit/s

95th percentile per-packet one-way delay: 113.402 ms

Loss rate: 0.00%

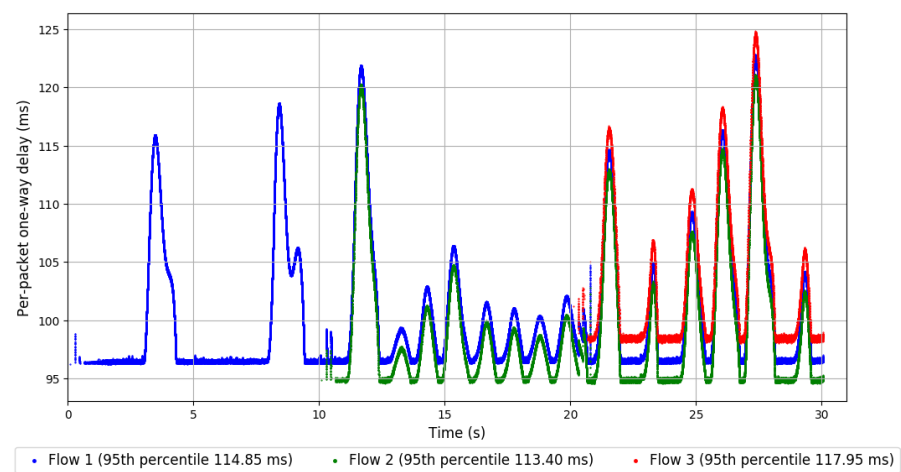
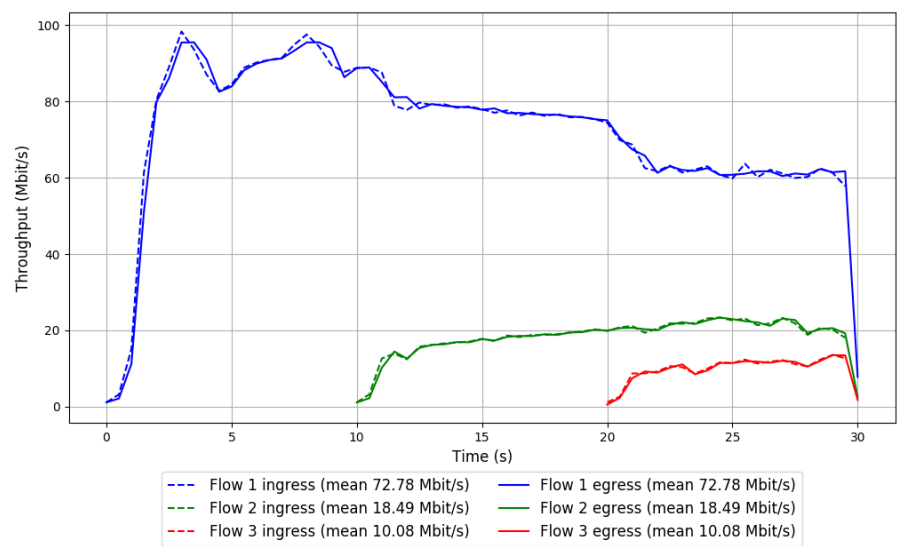
-- Flow 3:

Average throughput: 10.08 Mbit/s

95th percentile per-packet one-way delay: 117.953 ms

Loss rate: 0.08%

Run 6: Report of Copa — Data Link

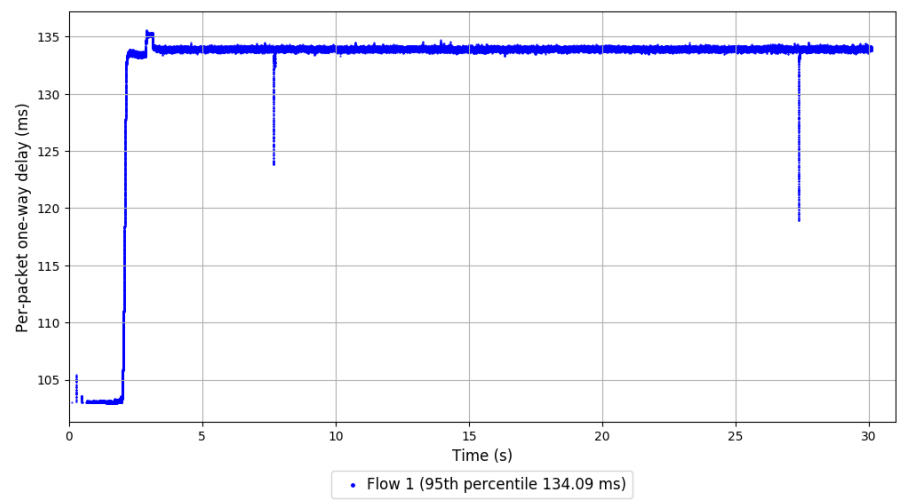
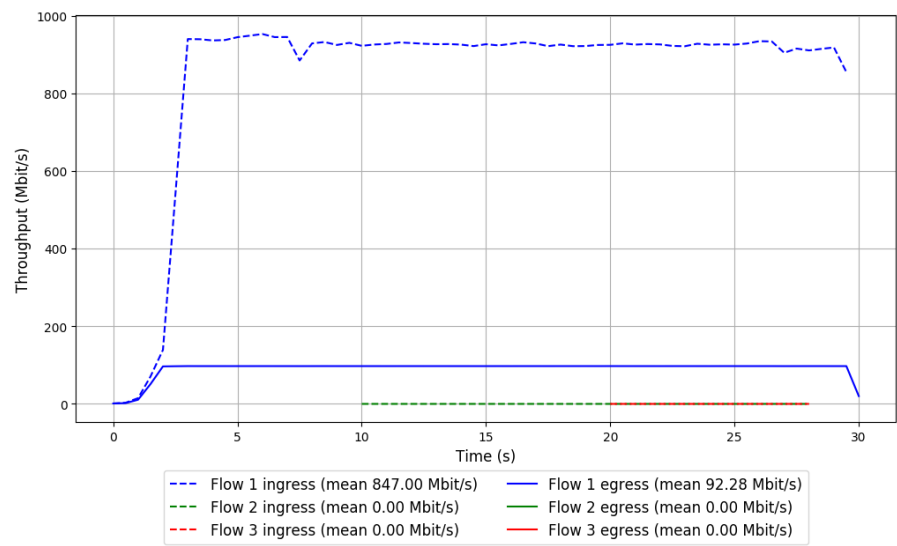


Run 7: Statistics of Copa

Start at: 2018-04-17 19:13:54
End at: 2018-04-17 19:14:24
Local clock offset: -6.235 ms
Remote clock offset: 12.48 ms

```
# Below is generated by plot.py at 2018-04-17 21:15:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.28 Mbit/s
95th percentile per-packet one-way delay: 134.090 ms
Loss rate: 89.09%
-- Flow 1:
Average throughput: 92.28 Mbit/s
95th percentile per-packet one-way delay: 134.090 ms
Loss rate: 89.09%
-- Flow 2:
Average throughput: 0.00 Mbit/s
-- Flow 3:
Average throughput: 0.00 Mbit/s
```

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-04-17 19:36:23

End at: 2018-04-17 19:36:53

Local clock offset: -4.696 ms

Remote clock offset: 5.962 ms

Below is generated by plot.py at 2018-04-17 21:15:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.70 Mbit/s

95th percentile per-packet one-way delay: 109.730 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 72.13 Mbit/s

95th percentile per-packet one-way delay: 107.983 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 20.52 Mbit/s

95th percentile per-packet one-way delay: 114.565 ms

Loss rate: 0.03%

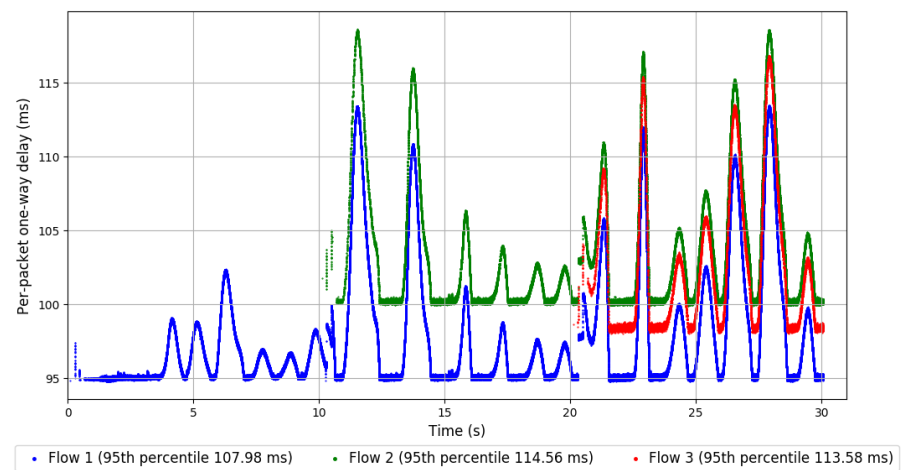
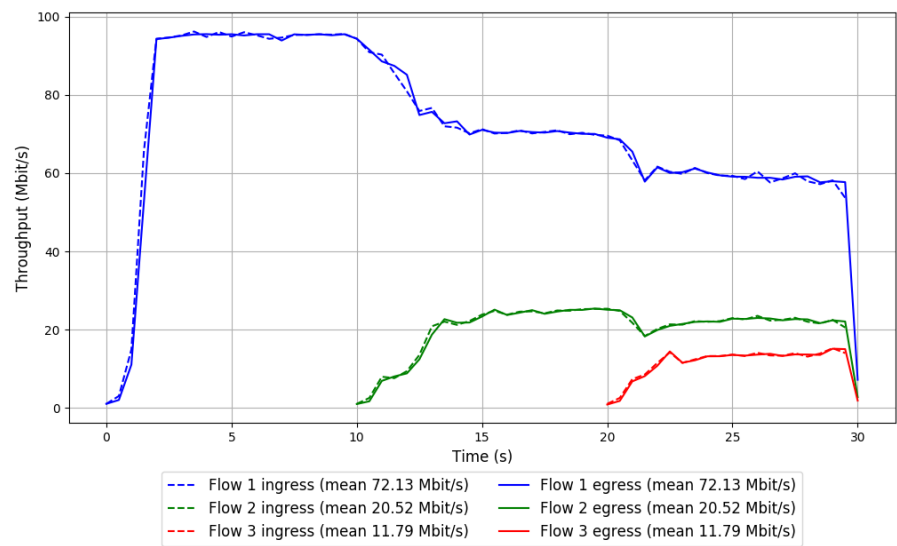
-- Flow 3:

Average throughput: 11.79 Mbit/s

95th percentile per-packet one-way delay: 113.579 ms

Loss rate: 0.06%

Run 8: Report of Copa — Data Link

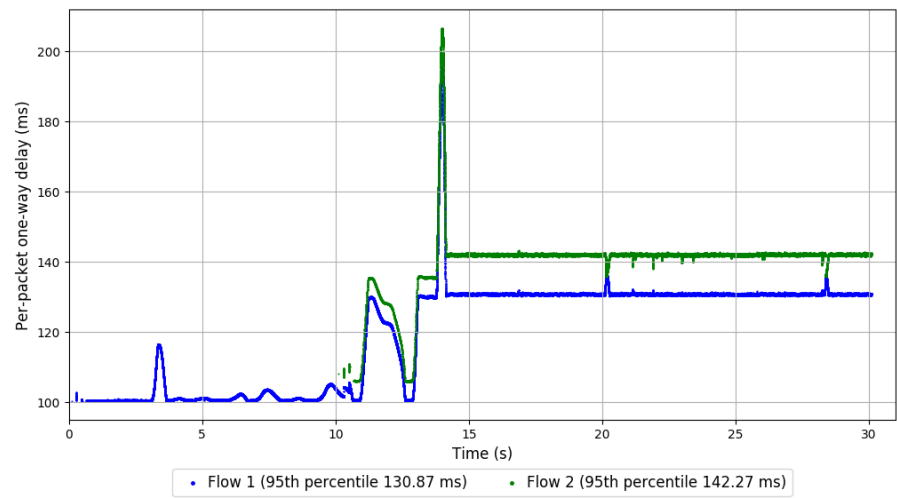
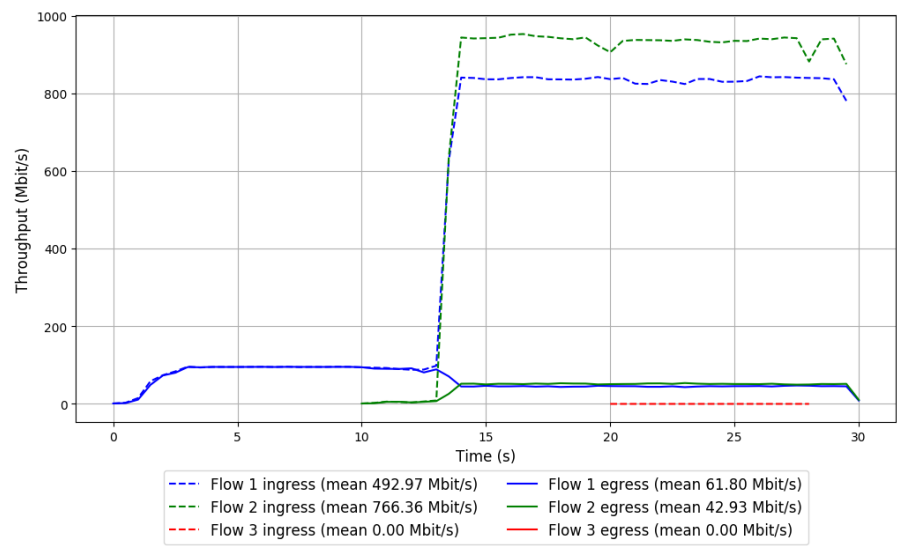


Run 9: Statistics of Copa

Start at: 2018-04-17 19:58:37
End at: 2018-04-17 19:59:07
Local clock offset: -5.616 ms
Remote clock offset: 13.372 ms

Below is generated by plot.py at 2018-04-17 21:18:11
Datalink statistics
-- Total of 3 flows:
Average throughput: 90.39 Mbit/s
95th percentile per-packet one-way delay: 142.124 ms
Loss rate: 90.98%
-- Flow 1:
Average throughput: 61.80 Mbit/s
95th percentile per-packet one-way delay: 130.871 ms
Loss rate: 87.45%
-- Flow 2:
Average throughput: 42.93 Mbit/s
95th percentile per-packet one-way delay: 142.268 ms
Loss rate: 94.39%
-- Flow 3:
Average throughput: 0.00 Mbit/s

Run 9: Report of Copa — Data Link

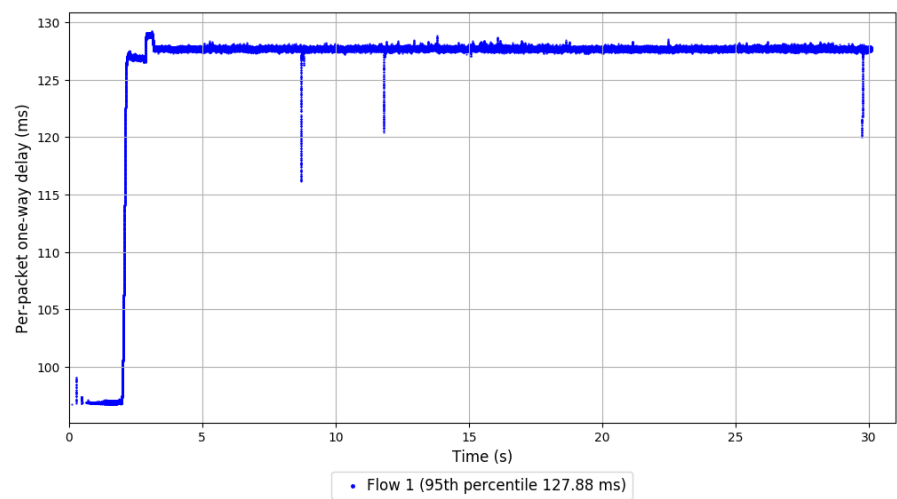
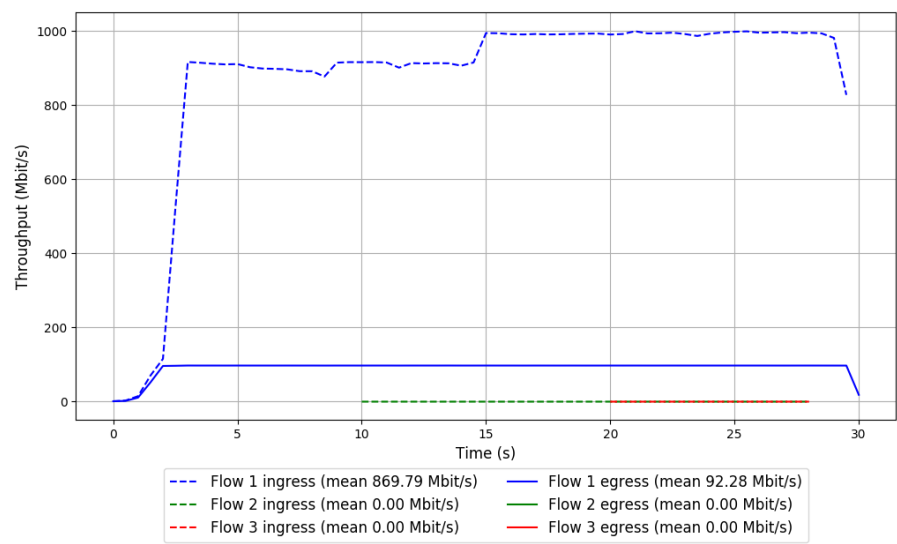


Run 10: Statistics of Copa

Start at: 2018-04-17 20:21:13
End at: 2018-04-17 20:21:43
Local clock offset: -6.408 ms
Remote clock offset: 9.328 ms

Below is generated by plot.py at 2018-04-17 21:18:11
Datalink statistics
-- Total of 3 flows:
Average throughput: 92.28 Mbit/s
95th percentile per-packet one-way delay: 127.875 ms
Loss rate: 89.38%
-- Flow 1:
Average throughput: 92.28 Mbit/s
95th percentile per-packet one-way delay: 127.875 ms
Loss rate: 89.38%
-- Flow 2:
Average throughput: 0.00 Mbit/s
-- Flow 3:
Average throughput: 0.00 Mbit/s

Run 10: Report of Copa — Data Link



Run 1: Statistics of FillP

Start at: 2018-04-17 17:01:03

End at: 2018-04-17 17:01:33

Local clock offset: -5.961 ms

Remote clock offset: 9.54 ms

Below is generated by plot.py at 2018-04-17 21:18:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.73 Mbit/s

95th percentile per-packet one-way delay: 154.965 ms

Loss rate: 16.72%

-- Flow 1:

Average throughput: 35.25 Mbit/s

95th percentile per-packet one-way delay: 127.612 ms

Loss rate: 15.53%

-- Flow 2:

Average throughput: 60.54 Mbit/s

95th percentile per-packet one-way delay: 155.122 ms

Loss rate: 15.45%

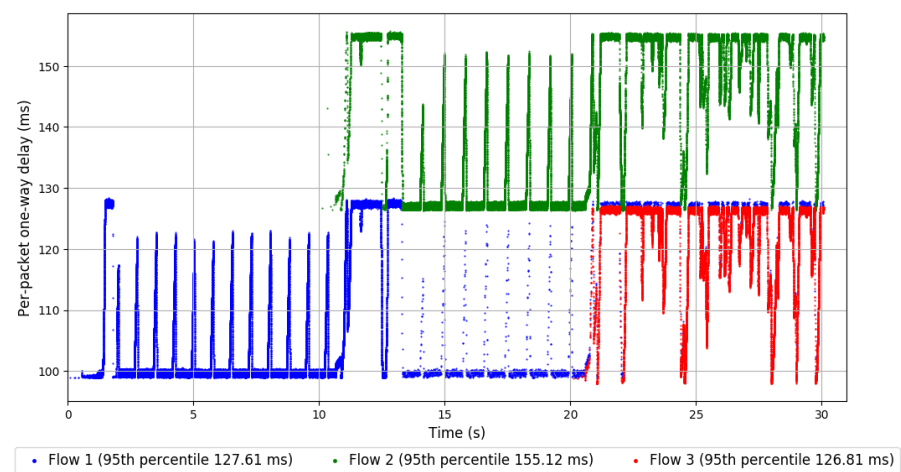
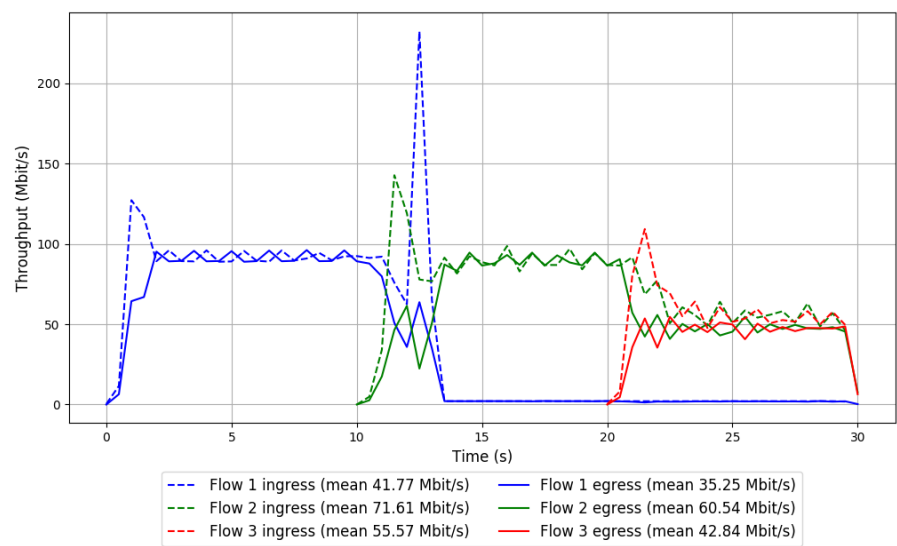
-- Flow 3:

Average throughput: 42.84 Mbit/s

95th percentile per-packet one-way delay: 126.811 ms

Loss rate: 22.69%

Run 1: Report of FillP — Data Link

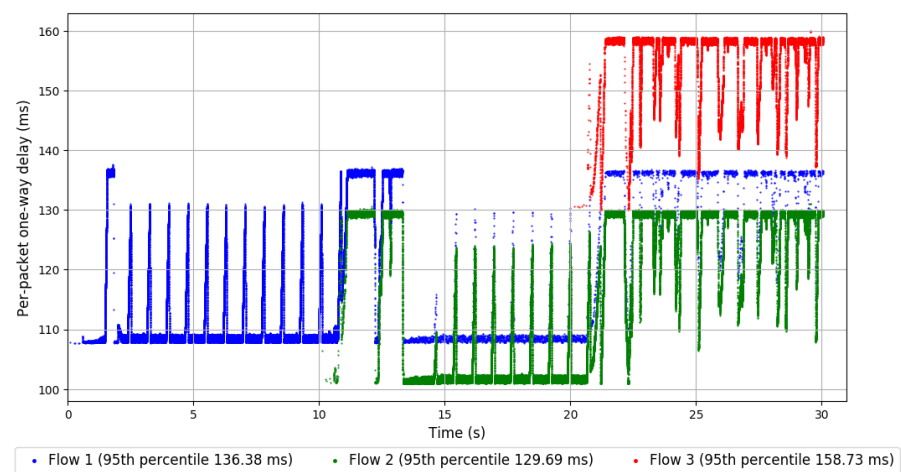
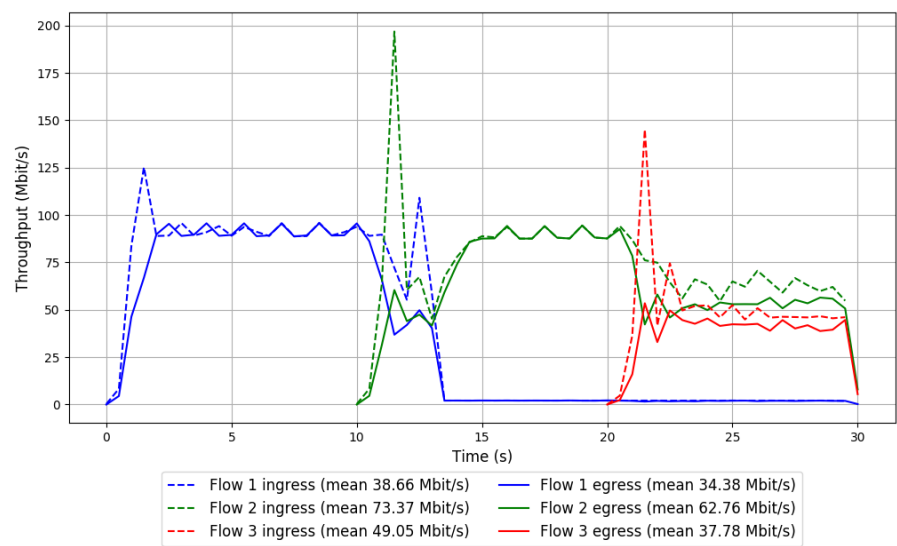


Run 2: Statistics of FillP

Start at: 2018-04-17 17:23:21
End at: 2018-04-17 17:23:51
Local clock offset: -6.713 ms
Remote clock offset: 11.725 ms

Below is generated by plot.py at 2018-04-17 21:18:11
Datalink statistics
-- Total of 3 flows:
Average throughput: 88.68 Mbit/s
95th percentile per-packet one-way delay: 158.401 ms
Loss rate: 14.47%
-- Flow 1:
Average throughput: 34.38 Mbit/s
95th percentile per-packet one-way delay: 136.384 ms
Loss rate: 11.02%
-- Flow 2:
Average throughput: 62.76 Mbit/s
95th percentile per-packet one-way delay: 129.689 ms
Loss rate: 14.37%
-- Flow 3:
Average throughput: 37.78 Mbit/s
95th percentile per-packet one-way delay: 158.729 ms
Loss rate: 22.98%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

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

End at: 2018-04-17 17:46:15

Local clock offset: -6.582 ms

Remote clock offset: 5.775 ms

Below is generated by plot.py at 2018-04-17 21:18:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.41 Mbit/s

95th percentile per-packet one-way delay: 124.658 ms

Loss rate: 16.44%

-- Flow 1:

Average throughput: 56.42 Mbit/s

95th percentile per-packet one-way delay: 124.710 ms

Loss rate: 11.48%

-- Flow 2:

Average throughput: 35.43 Mbit/s

95th percentile per-packet one-way delay: 121.941 ms

Loss rate: 21.91%

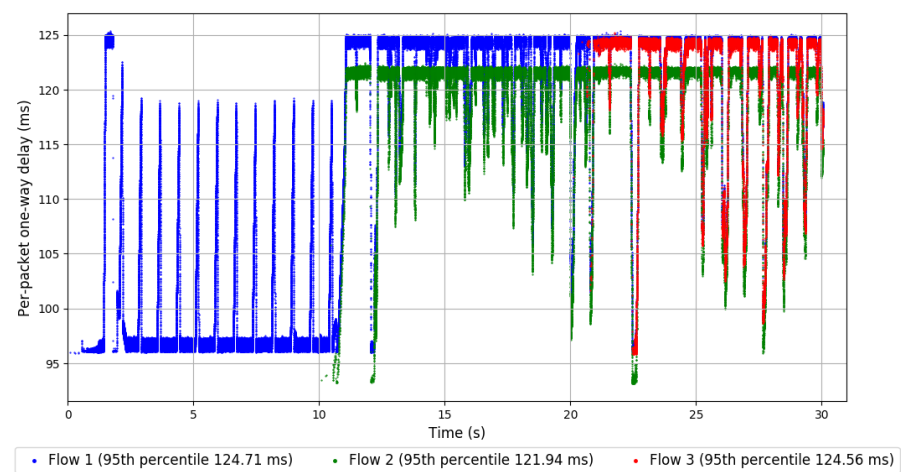
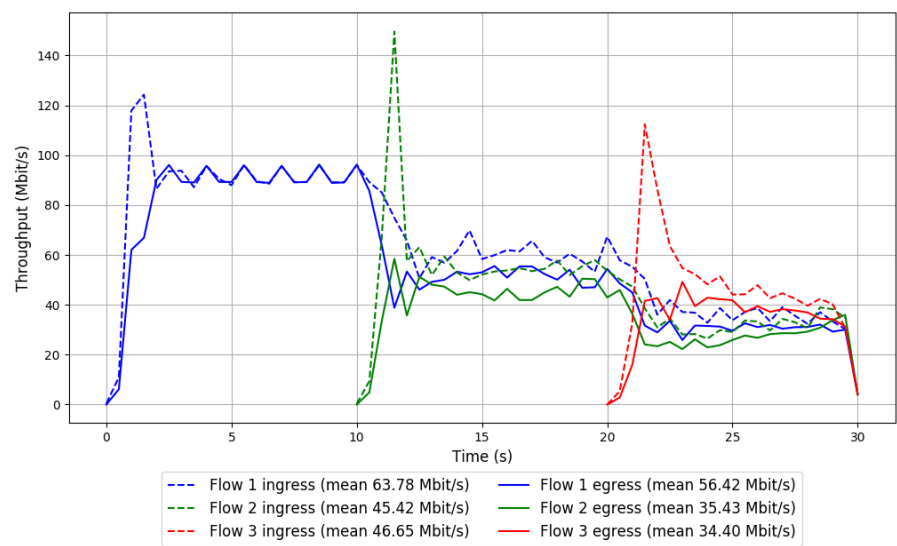
-- Flow 3:

Average throughput: 34.40 Mbit/s

95th percentile per-packet one-way delay: 124.562 ms

Loss rate: 26.21%

Run 3: Report of FillP — Data Link

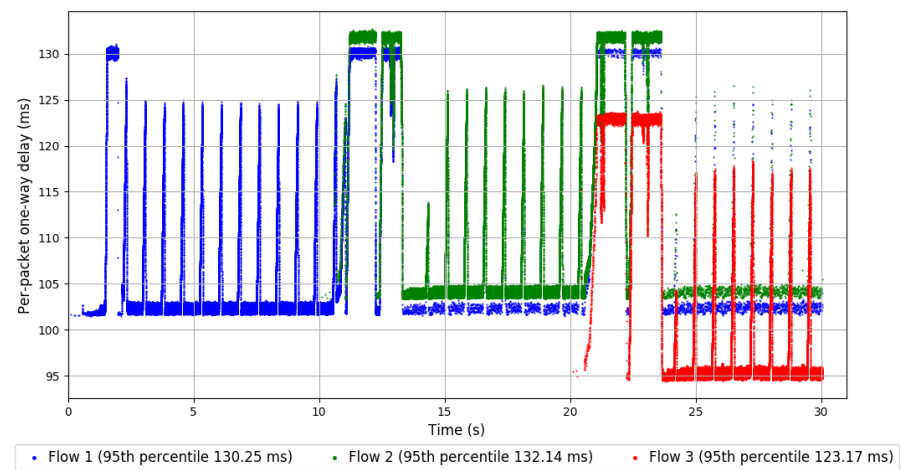
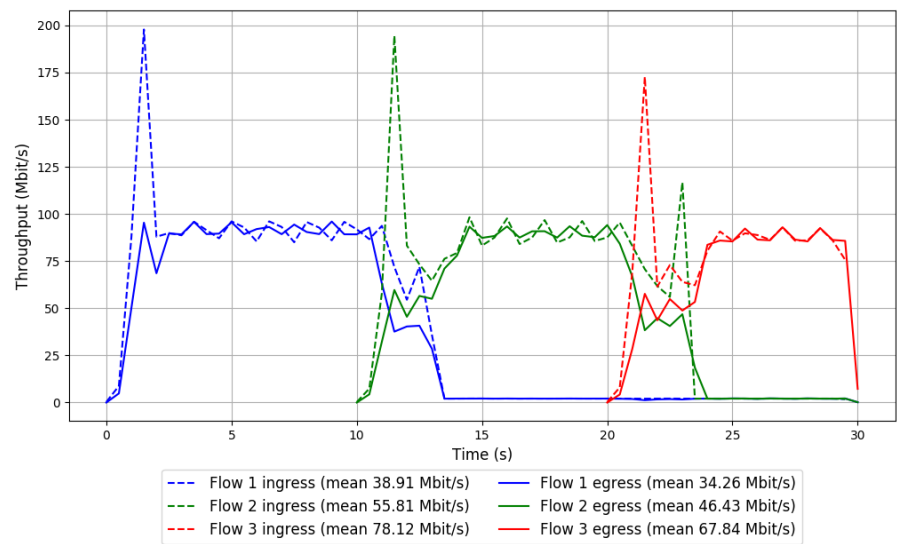


Run 4: Statistics of FillP

Start at: 2018-04-17 18:08:13
End at: 2018-04-17 18:08:43
Local clock offset: -5.116 ms
Remote clock offset: 5.84 ms

Below is generated by plot.py at 2018-04-17 21:18:11
Datalink statistics
-- Total of 3 flows:
Average throughput: 87.66 Mbit/s
95th percentile per-packet one-way delay: 131.762 ms
Loss rate: 14.04%
-- Flow 1:
Average throughput: 34.26 Mbit/s
95th percentile per-packet one-way delay: 130.248 ms
Loss rate: 11.98%
-- Flow 2:
Average throughput: 46.43 Mbit/s
95th percentile per-packet one-way delay: 132.139 ms
Loss rate: 16.81%
-- Flow 3:
Average throughput: 67.84 Mbit/s
95th percentile per-packet one-way delay: 123.171 ms
Loss rate: 13.16%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-04-17 18:30:39

End at: 2018-04-17 18:31:09

Local clock offset: -5.638 ms

Remote clock offset: 4.957 ms

Below is generated by plot.py at 2018-04-17 21:18:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.47 Mbit/s

95th percentile per-packet one-way delay: 129.827 ms

Loss rate: 16.76%

-- Flow 1:

Average throughput: 34.66 Mbit/s

95th percentile per-packet one-way delay: 124.466 ms

Loss rate: 13.15%

-- Flow 2:

Average throughput: 61.46 Mbit/s

95th percentile per-packet one-way delay: 124.586 ms

Loss rate: 17.83%

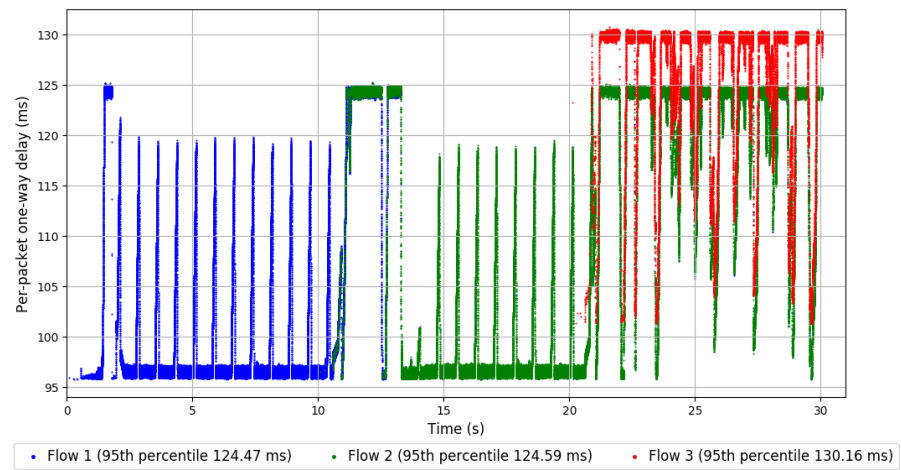
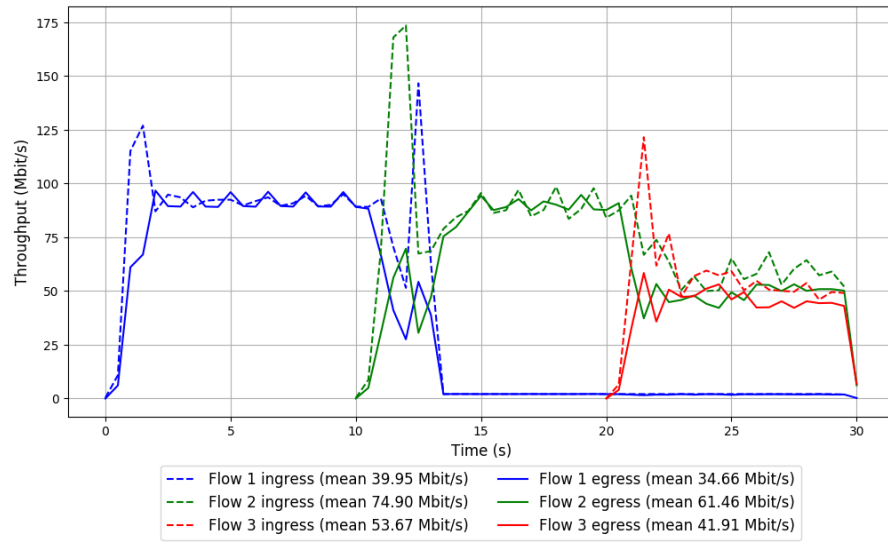
-- Flow 3:

Average throughput: 41.91 Mbit/s

95th percentile per-packet one-way delay: 130.161 ms

Loss rate: 21.86%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-04-17 18:52:52

End at: 2018-04-17 18:53:22

Local clock offset: -6.283 ms

Remote clock offset: 6.05 ms

Below is generated by plot.py at 2018-04-17 21:18:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.32 Mbit/s

95th percentile per-packet one-way delay: 124.773 ms

Loss rate: 14.29%

-- Flow 1:

Average throughput: 54.82 Mbit/s

95th percentile per-packet one-way delay: 123.741 ms

Loss rate: 11.06%

-- Flow 2:

Average throughput: 40.30 Mbit/s

95th percentile per-packet one-way delay: 124.808 ms

Loss rate: 19.73%

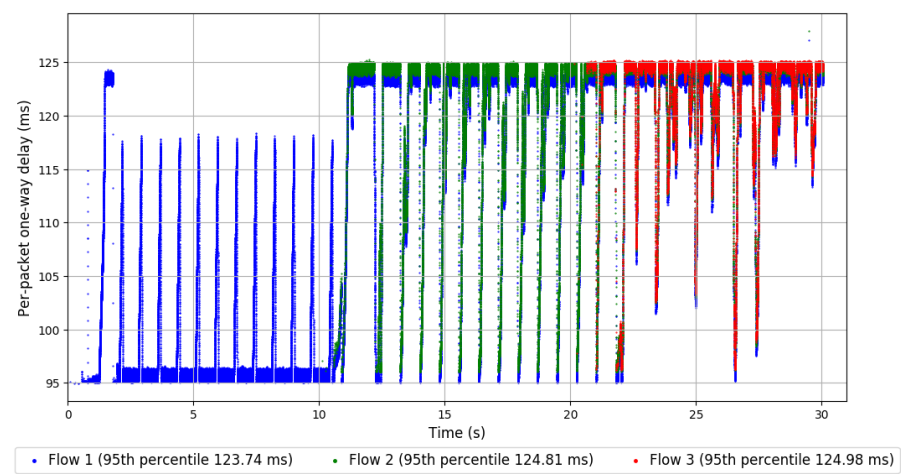
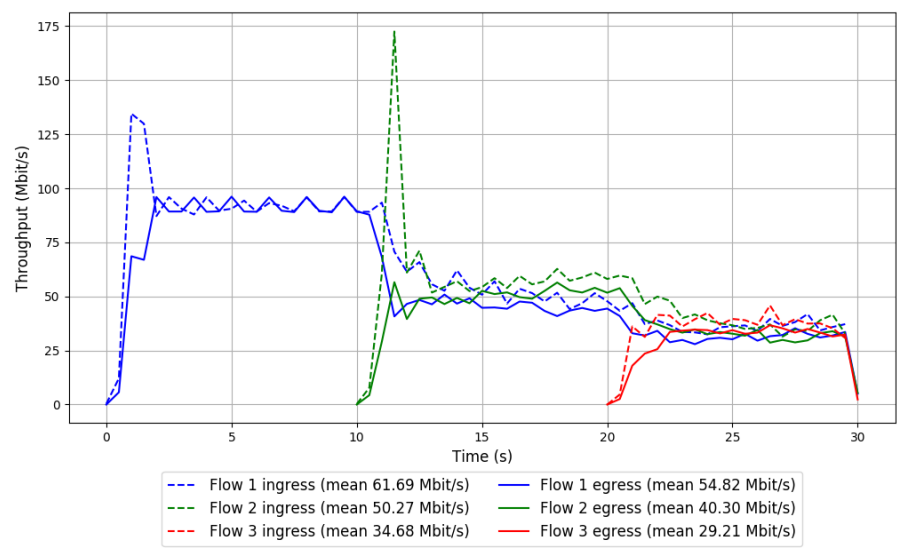
-- Flow 3:

Average throughput: 29.21 Mbit/s

95th percentile per-packet one-way delay: 124.984 ms

Loss rate: 15.76%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

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

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

Local clock offset: -4.698 ms

Remote clock offset: 5.947 ms

Below is generated by plot.py at 2018-04-17 21:18:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.99 Mbit/s

95th percentile per-packet one-way delay: 124.771 ms

Loss rate: 16.82%

-- Flow 1:

Average throughput: 34.47 Mbit/s

95th percentile per-packet one-way delay: 121.340 ms

Loss rate: 13.50%

-- Flow 2:

Average throughput: 62.17 Mbit/s

95th percentile per-packet one-way delay: 123.359 ms

Loss rate: 17.05%

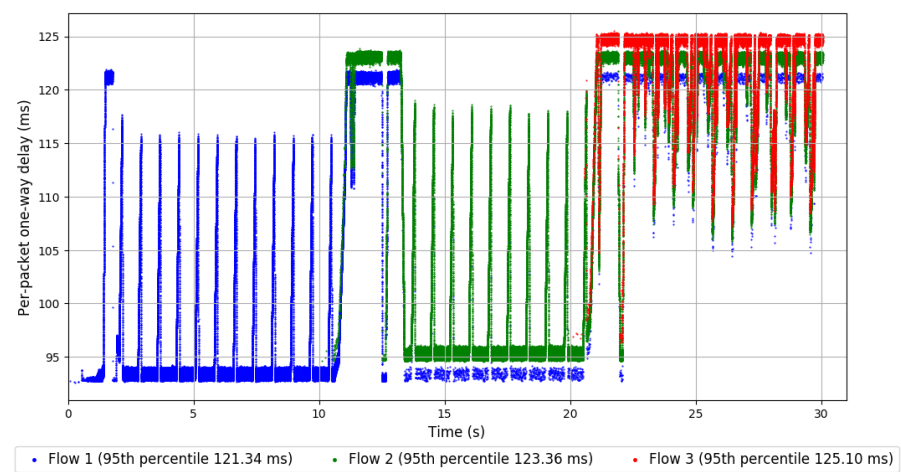
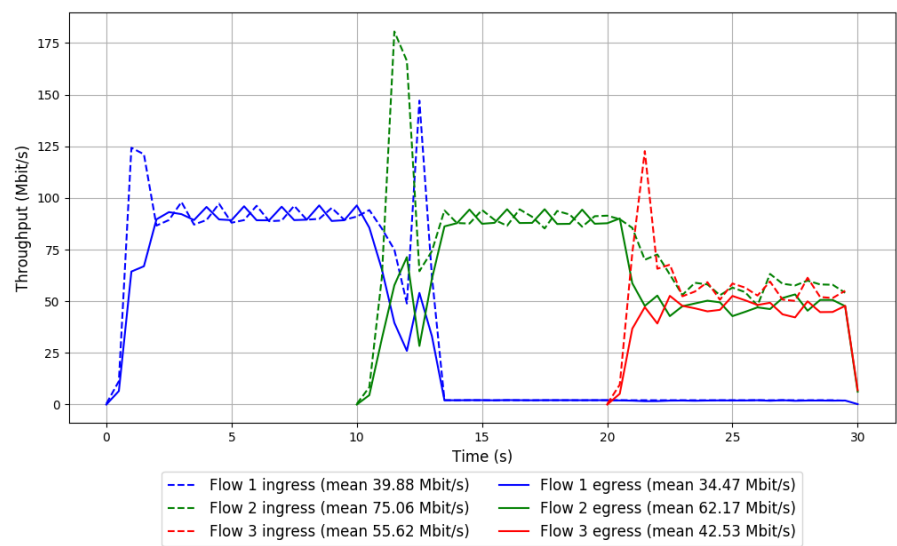
-- Flow 3:

Average throughput: 42.53 Mbit/s

95th percentile per-packet one-way delay: 125.097 ms

Loss rate: 23.35%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-04-17 19:37:46

End at: 2018-04-17 19:38:16

Local clock offset: -6.203 ms

Remote clock offset: 11.81 ms

Below is generated by plot.py at 2018-04-17 21:18:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.70 Mbit/s

95th percentile per-packet one-way delay: 130.373 ms

Loss rate: 17.16%

-- Flow 1:

Average throughput: 35.60 Mbit/s

95th percentile per-packet one-way delay: 130.825 ms

Loss rate: 15.07%

-- Flow 2:

Average throughput: 45.84 Mbit/s

95th percentile per-packet one-way delay: 130.206 ms

Loss rate: 20.90%

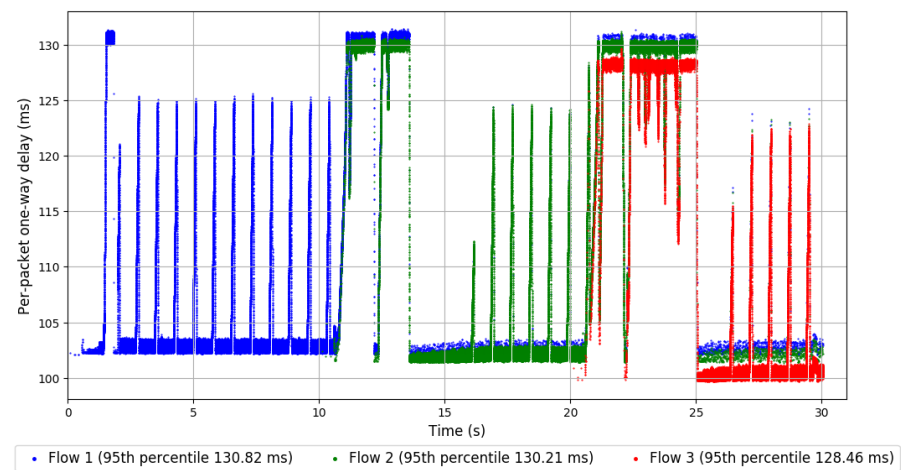
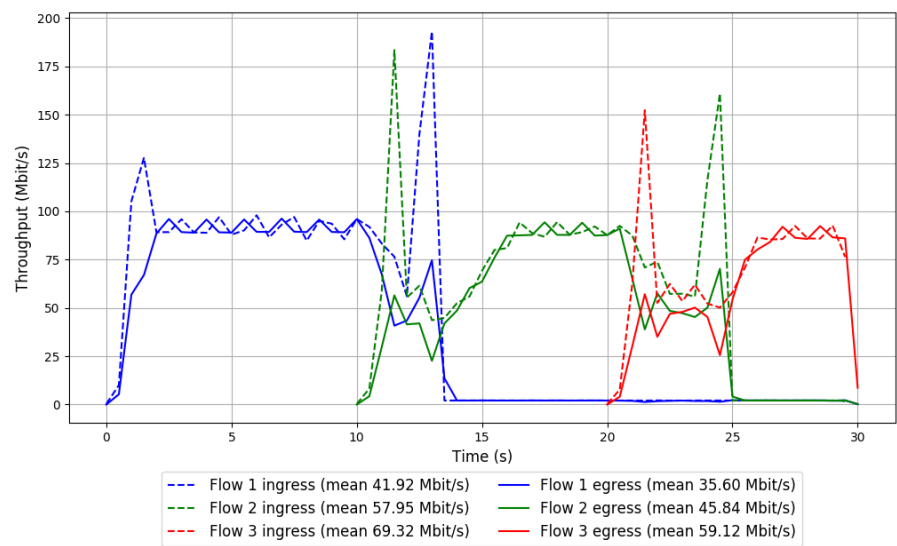
-- Flow 3:

Average throughput: 59.12 Mbit/s

95th percentile per-packet one-way delay: 128.458 ms

Loss rate: 14.71%

Run 8: Report of FillP — Data Link

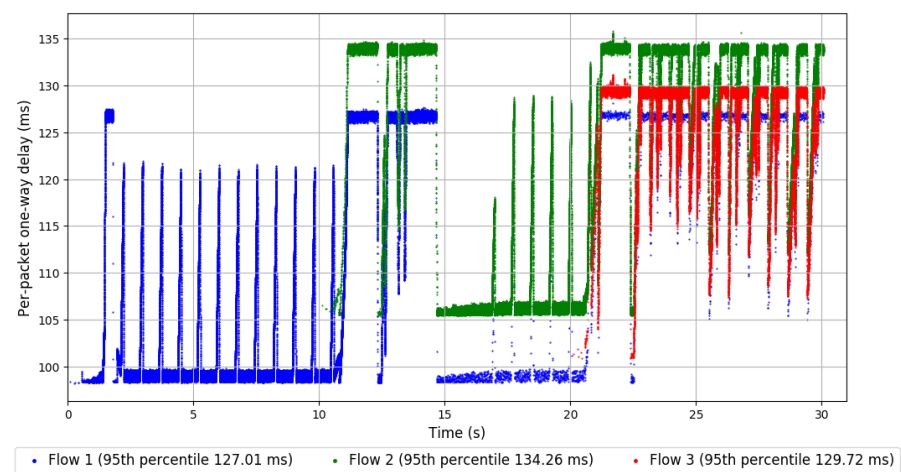
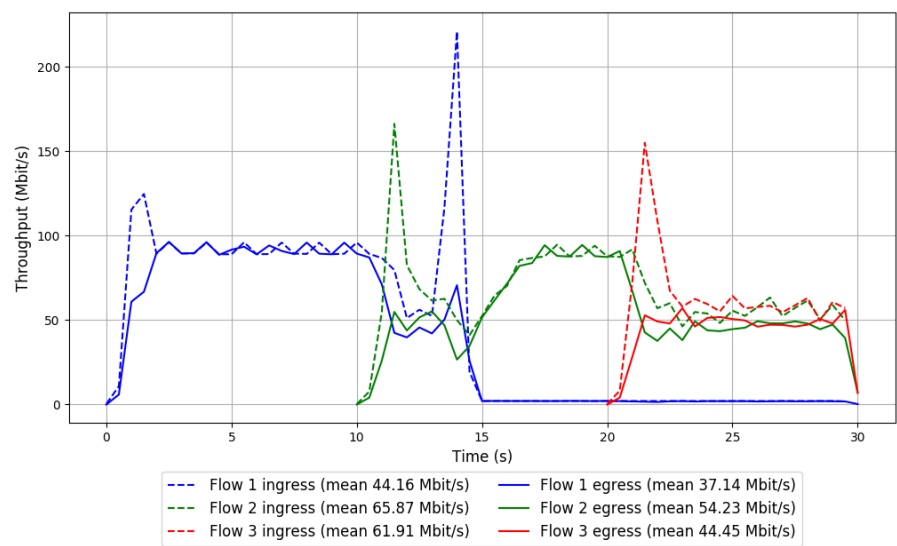


Run 9: Statistics of FillP

Start at: 2018-04-17 20:00:21
End at: 2018-04-17 20:00:51
Local clock offset: -6.418 ms
Remote clock offset: 12.644 ms

Below is generated by plot.py at 2018-04-17 21:18:11
Datalink statistics
-- Total of 3 flows:
Average throughput: 88.00 Mbit/s
95th percentile per-packet one-way delay: 134.135 ms
Loss rate: 18.83%
-- Flow 1:
Average throughput: 37.14 Mbit/s
95th percentile per-packet one-way delay: 127.009 ms
Loss rate: 15.80%
-- Flow 2:
Average throughput: 54.23 Mbit/s
95th percentile per-packet one-way delay: 134.263 ms
Loss rate: 17.58%
-- Flow 3:
Average throughput: 44.45 Mbit/s
95th percentile per-packet one-way delay: 129.721 ms
Loss rate: 28.01%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-04-17 20:22:51

End at: 2018-04-17 20:23:21

Local clock offset: -6.279 ms

Remote clock offset: 9.415 ms

Below is generated by plot.py at 2018-04-17 21:18:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 90.85 Mbit/s

95th percentile per-packet one-way delay: 126.726 ms

Loss rate: 15.33%

-- Flow 1:

Average throughput: 50.83 Mbit/s

95th percentile per-packet one-way delay: 126.819 ms

Loss rate: 11.82%

-- Flow 2:

Average throughput: 38.90 Mbit/s

95th percentile per-packet one-way delay: 125.446 ms

Loss rate: 18.47%

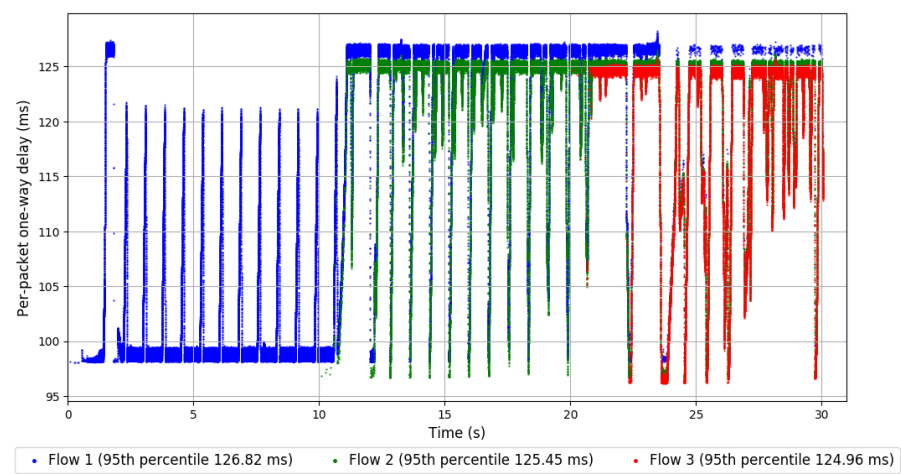
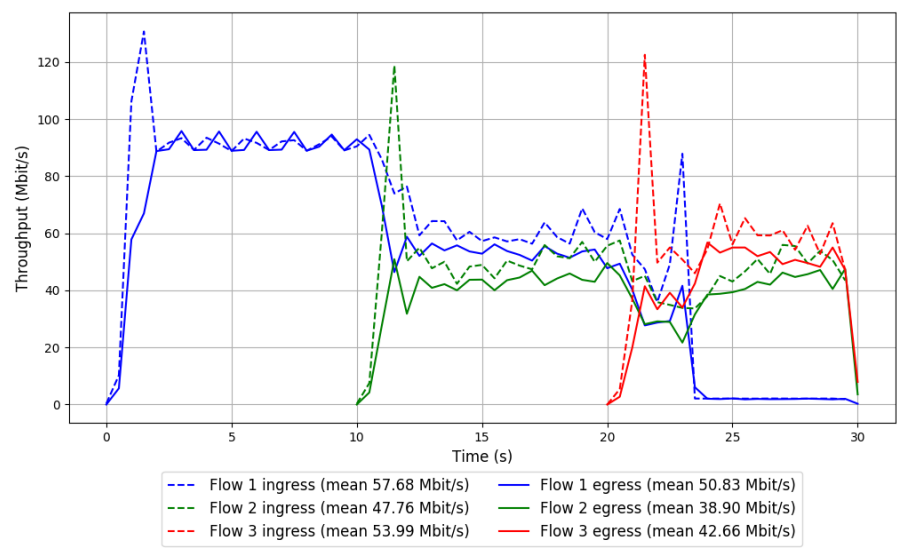
-- Flow 3:

Average throughput: 42.66 Mbit/s

95th percentile per-packet one-way delay: 124.961 ms

Loss rate: 21.06%

Run 10: Report of FillP — Data Link



Run 1: Statistics of Indigo-1-32

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

End at: 2018-04-17 17:05:28

Local clock offset: -4.657 ms

Remote clock offset: 4.782 ms

Below is generated by plot.py at 2018-04-17 21:18:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.19 Mbit/s

95th percentile per-packet one-way delay: 147.531 ms

Loss rate: 18.28%

-- Flow 1:

Average throughput: 73.32 Mbit/s

95th percentile per-packet one-way delay: 147.554 ms

Loss rate: 8.94%

-- Flow 2:

Average throughput: 16.48 Mbit/s

95th percentile per-packet one-way delay: 123.669 ms

Loss rate: 33.20%

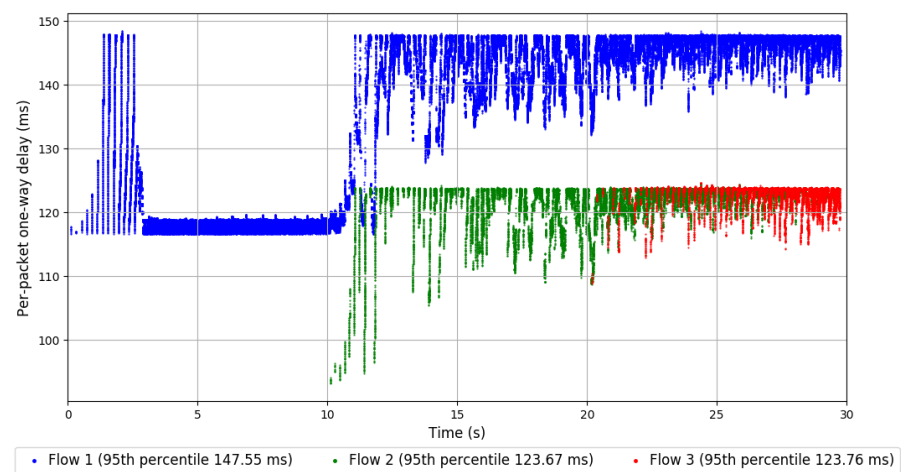
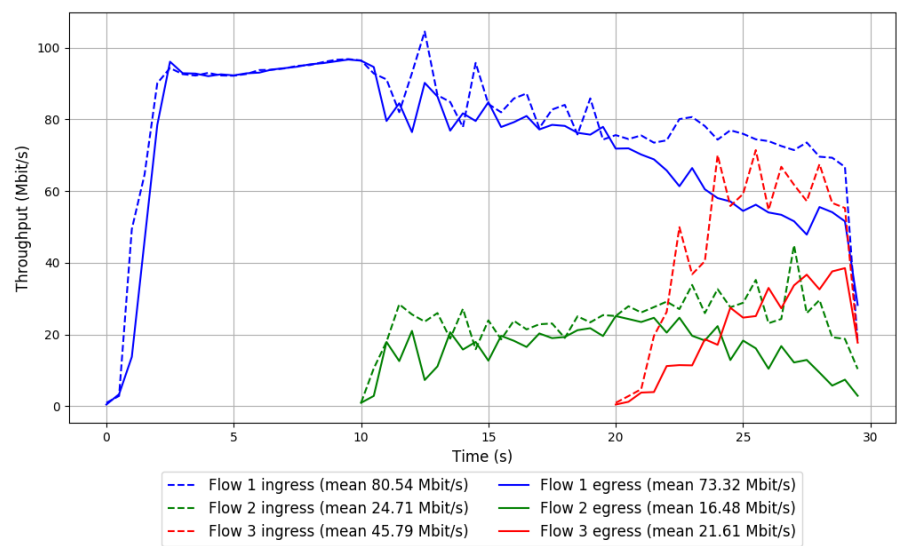
-- Flow 3:

Average throughput: 21.61 Mbit/s

95th percentile per-packet one-way delay: 123.761 ms

Loss rate: 52.74%

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

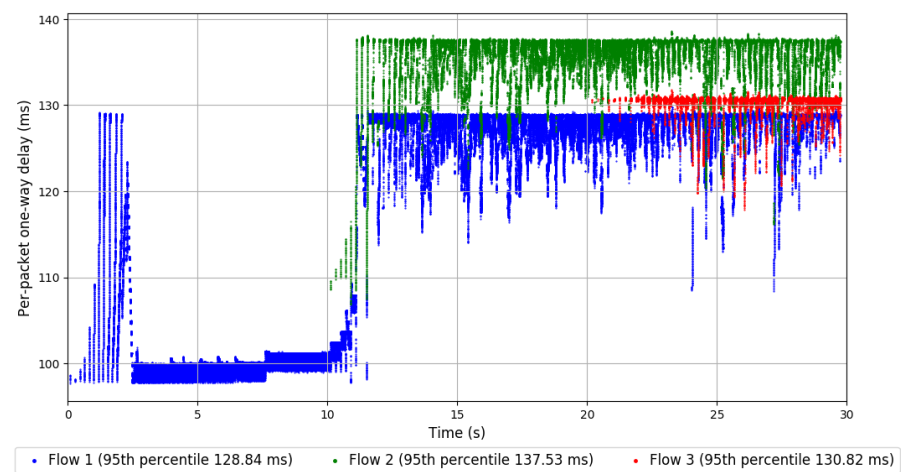
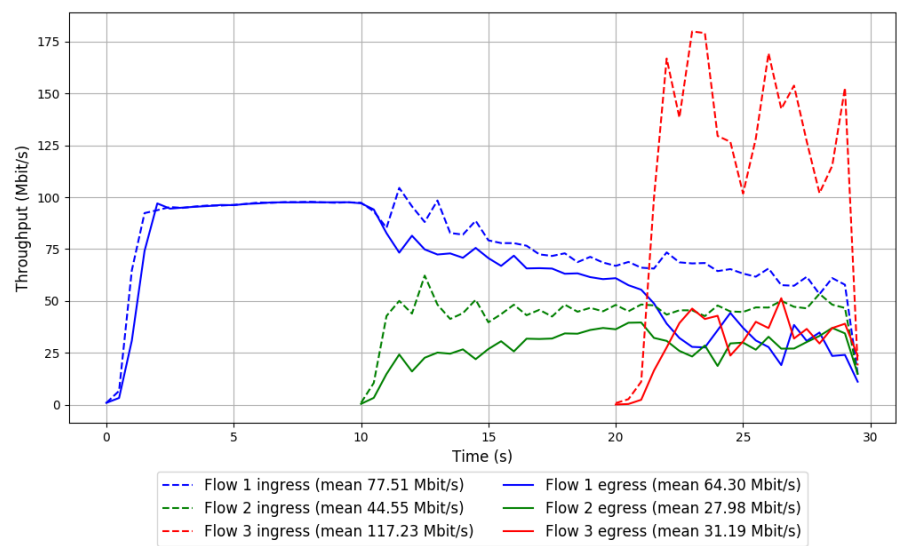


Run 2: Statistics of Indigo-1-32

Start at: 2018-04-17 17:27:17
End at: 2018-04-17 17:27:47
Local clock offset: -5.073 ms
Remote clock offset: 10.196 ms

Below is generated by plot.py at 2018-04-17 21:18:11
Datalink statistics
-- Total of 3 flows:
Average throughput: 92.87 Mbit/s
95th percentile per-packet one-way delay: 137.279 ms
Loss rate: 35.82%
-- Flow 1:
Average throughput: 64.30 Mbit/s
95th percentile per-packet one-way delay: 128.841 ms
Loss rate: 16.95%
-- Flow 2:
Average throughput: 27.98 Mbit/s
95th percentile per-packet one-way delay: 137.533 ms
Loss rate: 37.12%
-- Flow 3:
Average throughput: 31.19 Mbit/s
95th percentile per-packet one-way delay: 130.824 ms
Loss rate: 73.40%

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

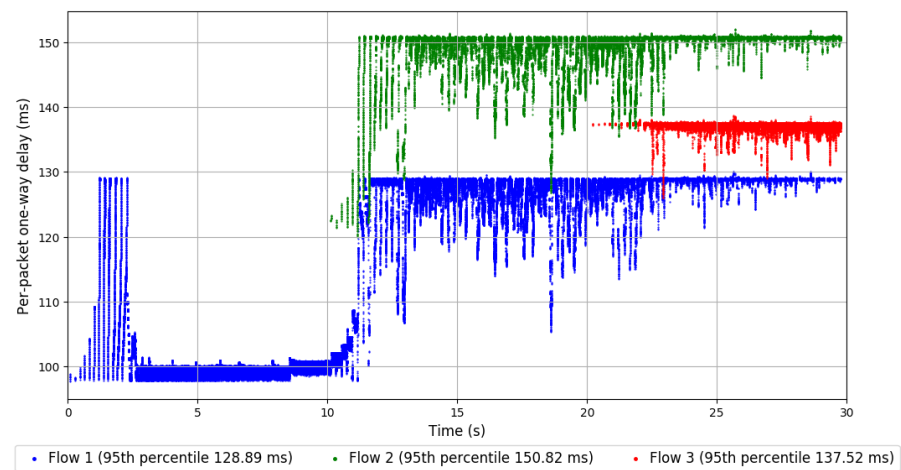
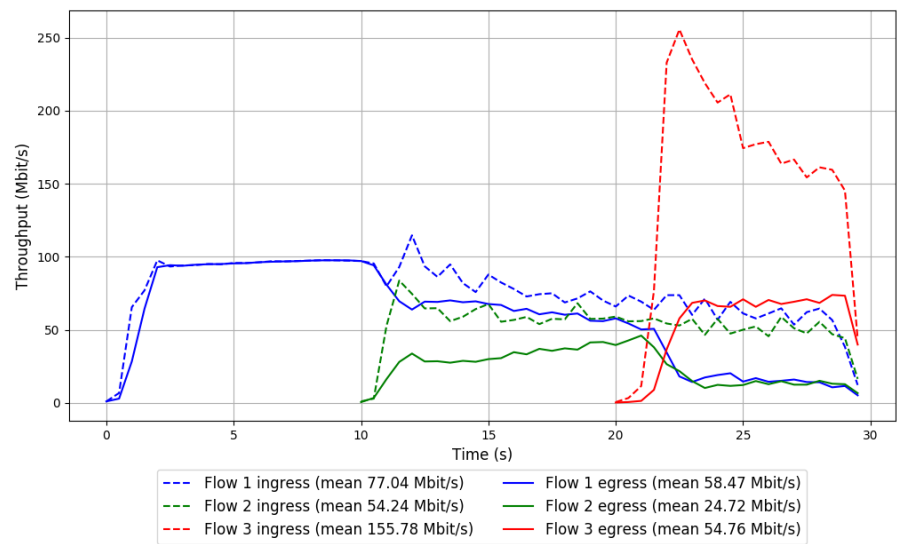


Run 3: Statistics of Indigo-1-32

Start at: 2018-04-17 17:49:40
End at: 2018-04-17 17:50:10
Local clock offset: -5.114 ms
Remote clock offset: 10.798 ms

Below is generated by plot.py at 2018-04-17 21:18:11
Datalink statistics
-- Total of 3 flows:
Average throughput: 92.43 Mbit/s
95th percentile per-packet one-way delay: 150.685 ms
Loss rate: 43.26%
-- Flow 1:
Average throughput: 58.47 Mbit/s
95th percentile per-packet one-way delay: 128.890 ms
Loss rate: 24.03%
-- Flow 2:
Average throughput: 24.72 Mbit/s
95th percentile per-packet one-way delay: 150.820 ms
Loss rate: 54.35%
-- Flow 3:
Average throughput: 54.76 Mbit/s
95th percentile per-packet one-way delay: 137.523 ms
Loss rate: 64.85%

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



Run 4: Statistics of Indigo-1-32

Start at: 2018-04-17 18:12:08

End at: 2018-04-17 18:12:38

Local clock offset: -4.259 ms

Remote clock offset: 5.71 ms

Below is generated by plot.py at 2018-04-17 21:18:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.95 Mbit/s

95th percentile per-packet one-way delay: 130.004 ms

Loss rate: 38.58%

-- Flow 1:

Average throughput: 60.27 Mbit/s

95th percentile per-packet one-way delay: 124.891 ms

Loss rate: 22.67%

-- Flow 2:

Average throughput: 32.67 Mbit/s

95th percentile per-packet one-way delay: 130.167 ms

Loss rate: 37.88%

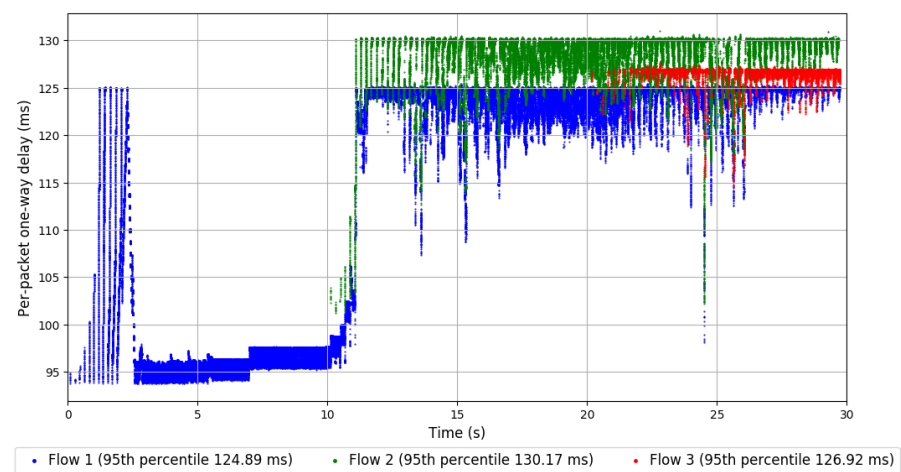
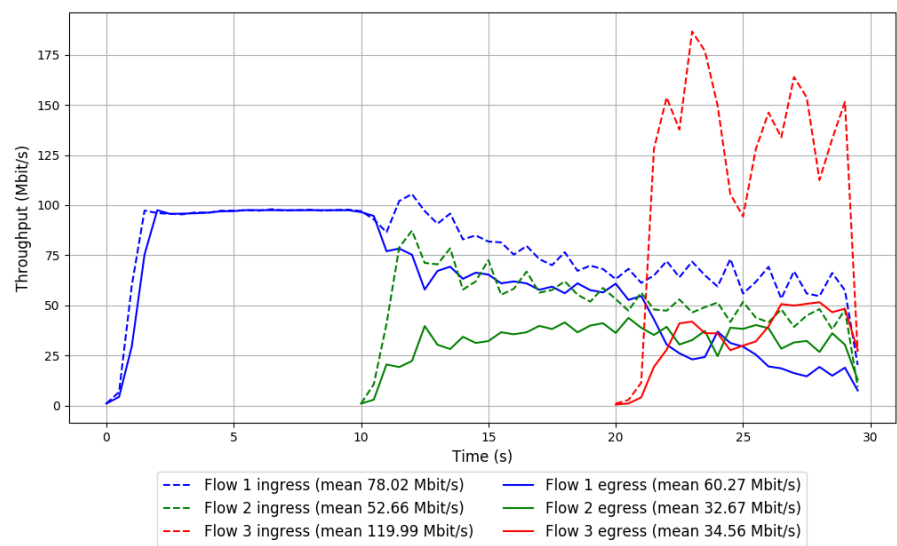
-- Flow 3:

Average throughput: 34.56 Mbit/s

95th percentile per-packet one-way delay: 126.923 ms

Loss rate: 71.20%

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



Run 5: Statistics of Indigo-1-32

Start at: 2018-04-17 18:34:34

End at: 2018-04-17 18:35:04

Local clock offset: -5.837 ms

Remote clock offset: 5.316 ms

Below is generated by plot.py at 2018-04-17 21:18:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.78 Mbit/s

95th percentile per-packet one-way delay: 129.072 ms

Loss rate: 48.96%

-- Flow 1:

Average throughput: 61.95 Mbit/s

95th percentile per-packet one-way delay: 126.053 ms

Loss rate: 36.52%

-- Flow 2:

Average throughput: 27.54 Mbit/s

95th percentile per-packet one-way delay: 129.200 ms

Loss rate: 56.83%

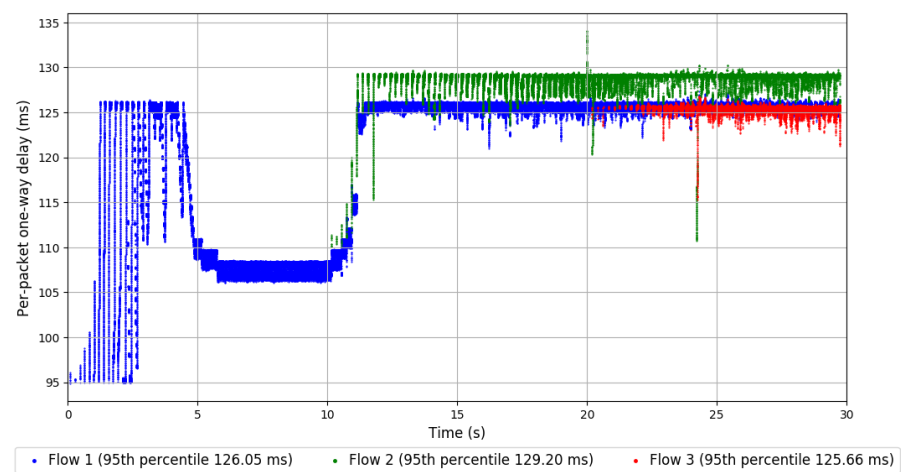
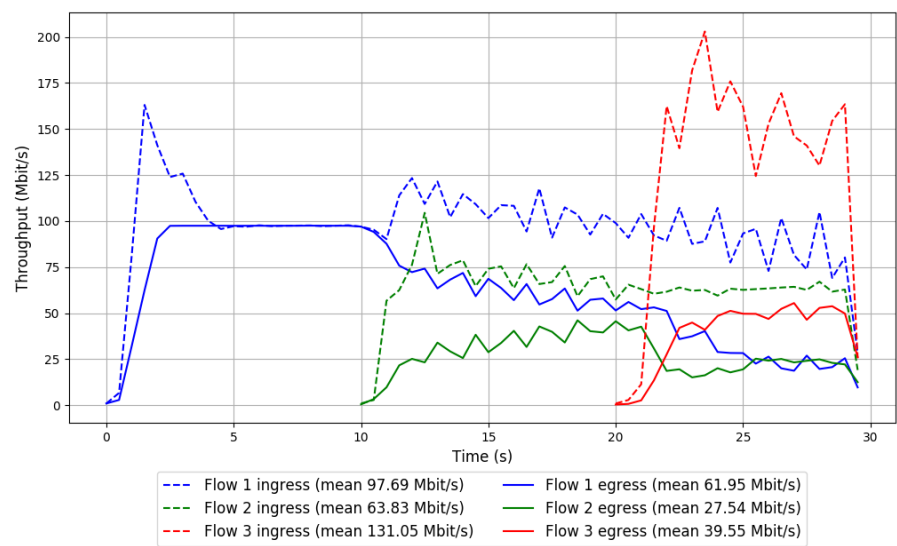
-- Flow 3:

Average throughput: 39.55 Mbit/s

95th percentile per-packet one-way delay: 125.658 ms

Loss rate: 69.82%

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

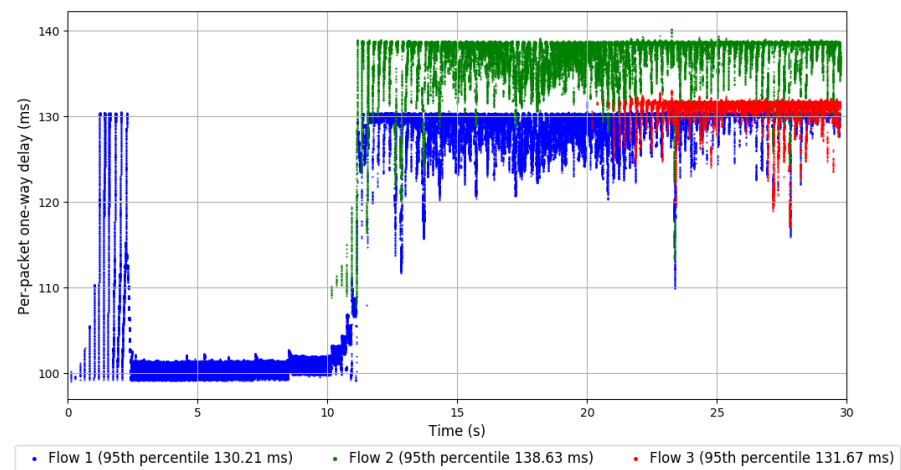
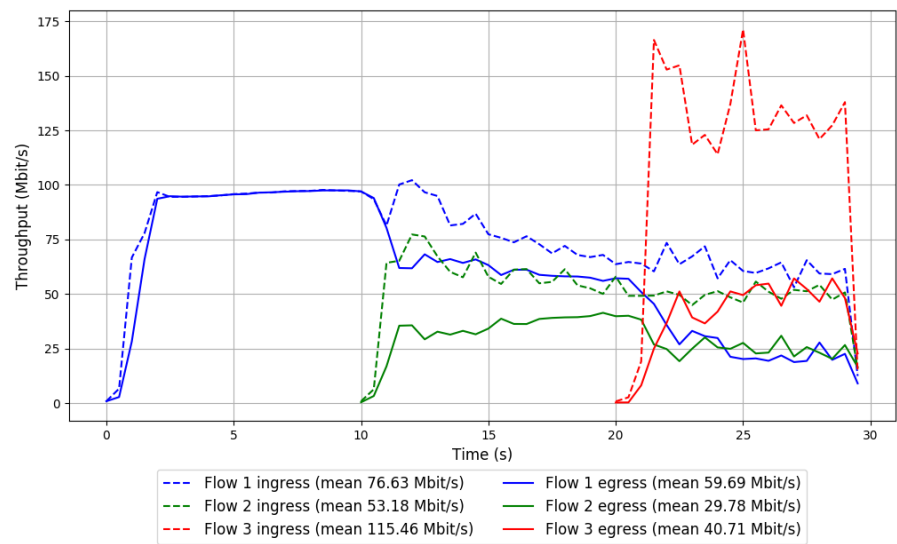


Run 6: Statistics of Indigo-1-32

Start at: 2018-04-17 18:56:47
End at: 2018-04-17 18:57:17
Local clock offset: -4.723 ms
Remote clock offset: 11.731 ms

Below is generated by plot.py at 2018-04-17 21:18:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 92.51 Mbit/s
95th percentile per-packet one-way delay: 138.510 ms
Loss rate: 37.87%
-- Flow 1:
Average throughput: 59.69 Mbit/s
95th percentile per-packet one-way delay: 130.206 ms
Loss rate: 22.02%
-- Flow 2:
Average throughput: 29.78 Mbit/s
95th percentile per-packet one-way delay: 138.633 ms
Loss rate: 43.92%
-- Flow 3:
Average throughput: 40.71 Mbit/s
95th percentile per-packet one-way delay: 131.666 ms
Loss rate: 64.73%

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

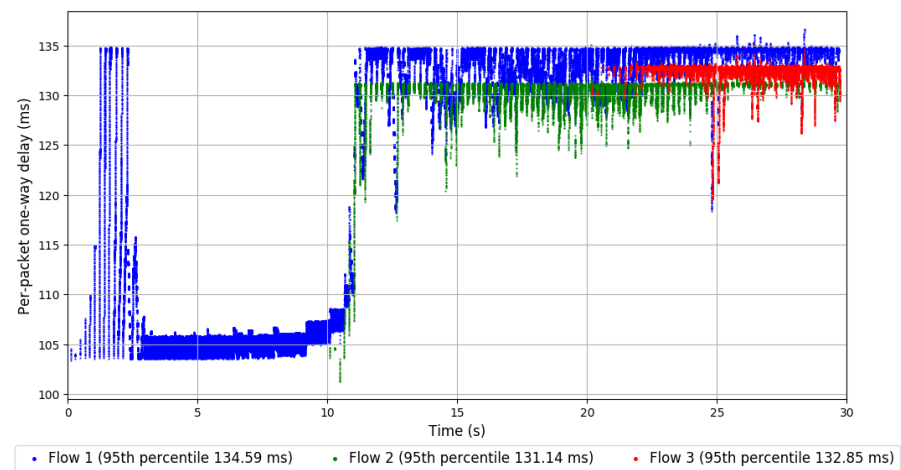
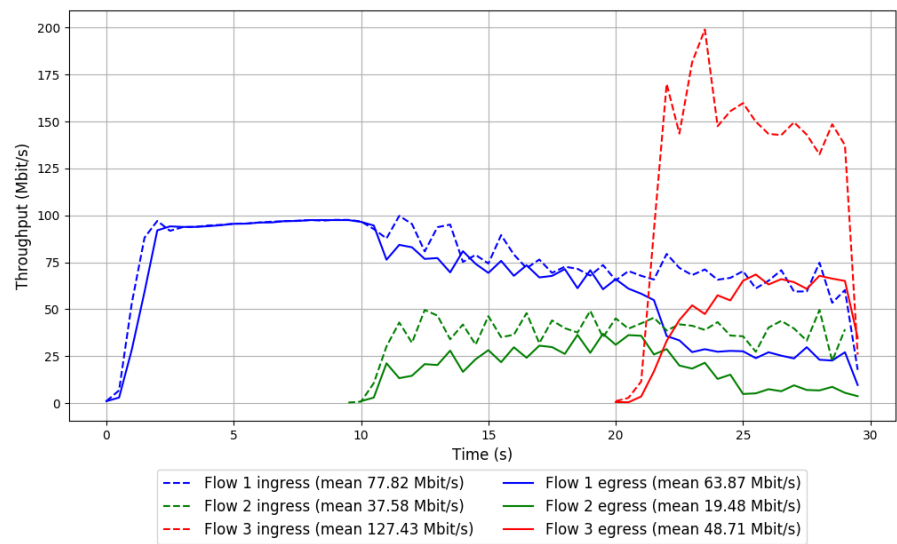


Run 7: Statistics of Indigo-1-32

Start at: 2018-04-17 19:19:28
End at: 2018-04-17 19:19:58
Local clock offset: -6.269 ms
Remote clock offset: 11.556 ms

Below is generated by plot.py at 2018-04-17 21:18:32
Datalink statistics
-- Total of 3 flows:
Average throughput: 92.29 Mbit/s
95th percentile per-packet one-way delay: 134.556 ms
Loss rate: 35.72%
-- Flow 1:
Average throughput: 63.87 Mbit/s
95th percentile per-packet one-way delay: 134.589 ms
Loss rate: 18.01%
-- Flow 2:
Average throughput: 19.48 Mbit/s
95th percentile per-packet one-way delay: 131.144 ms
Loss rate: 48.09%
-- Flow 3:
Average throughput: 48.71 Mbit/s
95th percentile per-packet one-way delay: 132.854 ms
Loss rate: 61.77%

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



Run 8: Statistics of Indigo-1-32

Start at: 2018-04-17 19:41:41

End at: 2018-04-17 19:42:11

Local clock offset: -5.759 ms

Remote clock offset: 7.438 ms

Below is generated by plot.py at 2018-04-17 21:18:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.69 Mbit/s

95th percentile per-packet one-way delay: 132.120 ms

Loss rate: 33.86%

-- Flow 1:

Average throughput: 68.60 Mbit/s

95th percentile per-packet one-way delay: 132.144 ms

Loss rate: 14.57%

-- Flow 2:

Average throughput: 18.65 Mbit/s

95th percentile per-packet one-way delay: 127.049 ms

Loss rate: 51.21%

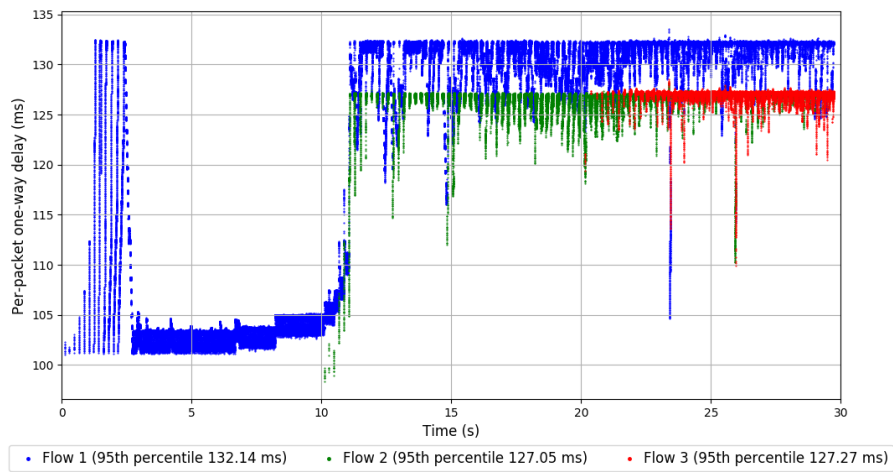
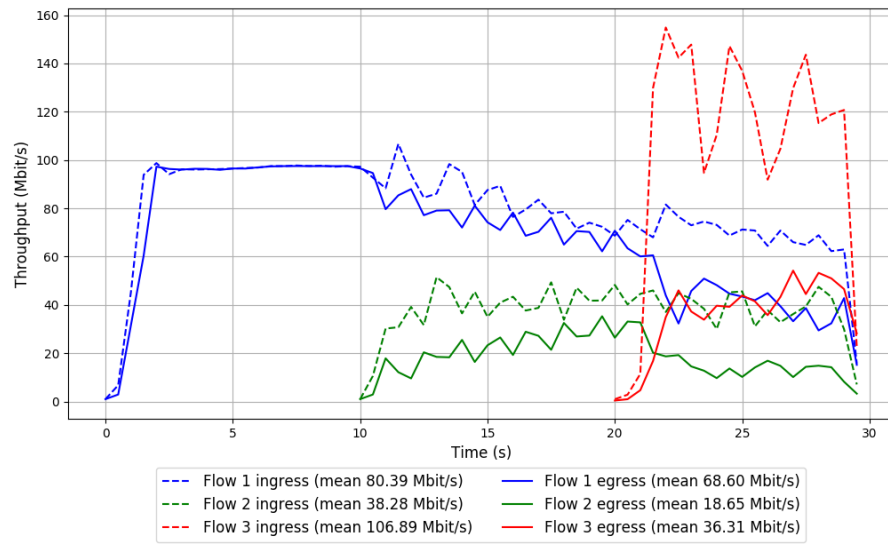
-- Flow 3:

Average throughput: 36.31 Mbit/s

95th percentile per-packet one-way delay: 127.268 ms

Loss rate: 66.00%

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



Run 9: Statistics of Indigo-1-32

Start at: 2018-04-17 20:04:18

End at: 2018-04-17 20:04:48

Local clock offset: -5.706 ms

Remote clock offset: 8.796 ms

Below is generated by plot.py at 2018-04-17 21:18:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.55 Mbit/s

95th percentile per-packet one-way delay: 133.753 ms

Loss rate: 35.59%

-- Flow 1:

Average throughput: 63.33 Mbit/s

95th percentile per-packet one-way delay: 133.748 ms

Loss rate: 18.45%

-- Flow 2:

Average throughput: 25.20 Mbit/s

95th percentile per-packet one-way delay: 133.787 ms

Loss rate: 31.48%

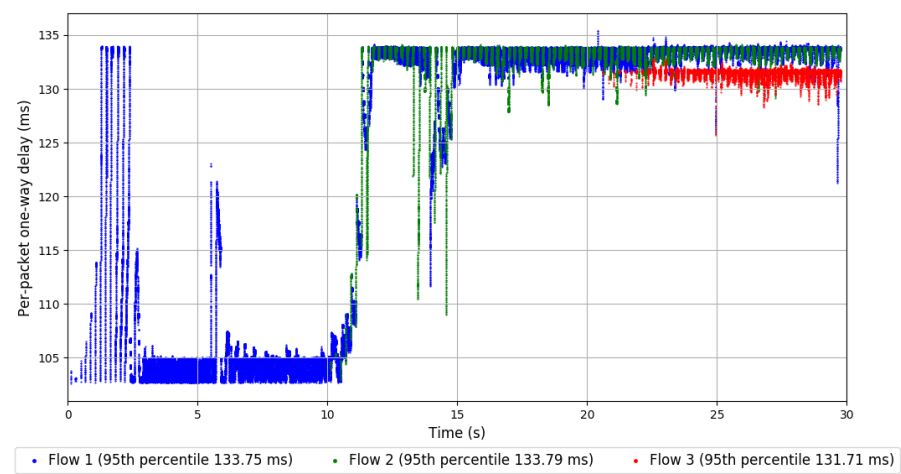
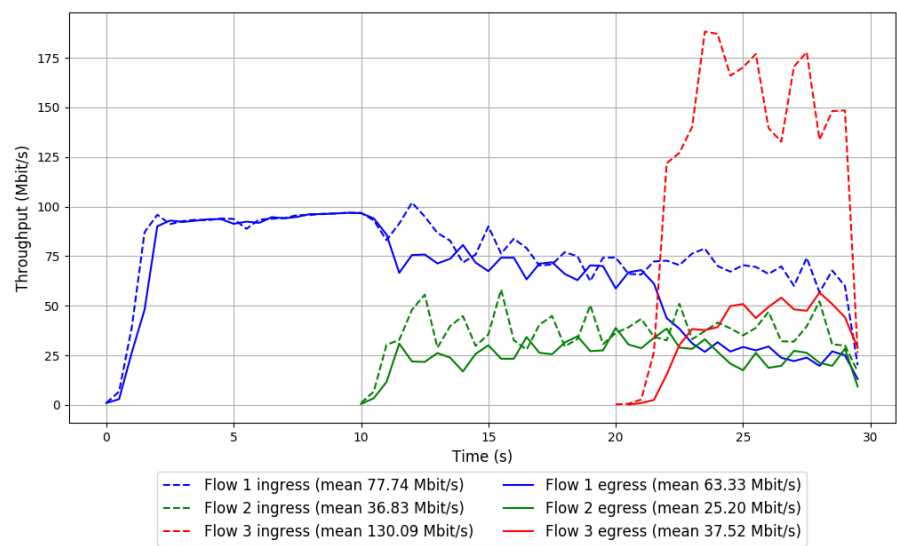
-- Flow 3:

Average throughput: 37.52 Mbit/s

95th percentile per-packet one-way delay: 131.710 ms

Loss rate: 71.15%

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

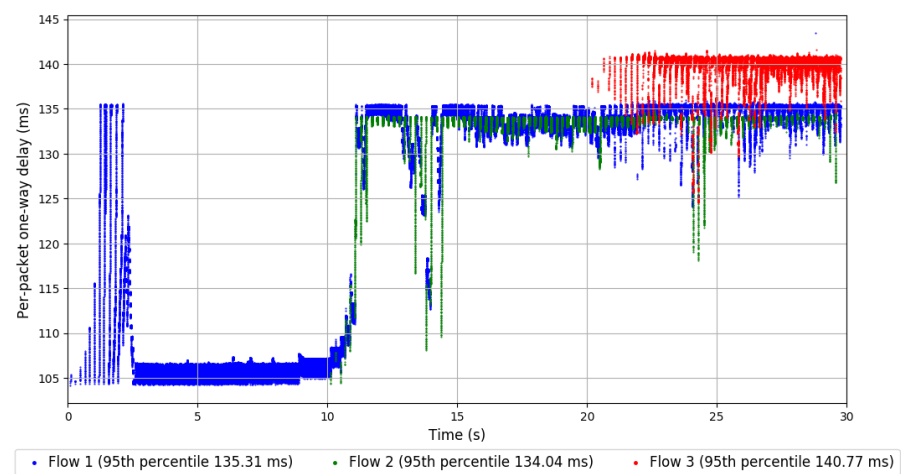
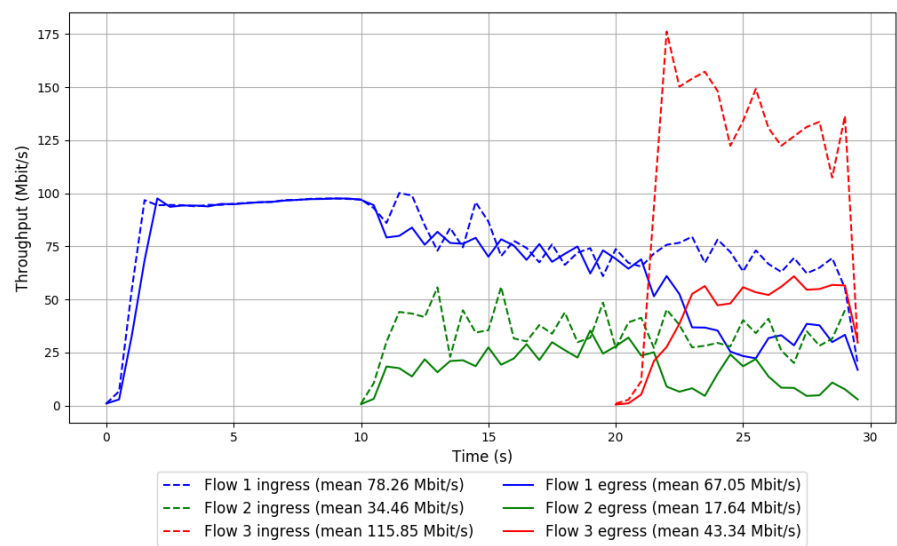


Run 10: Statistics of Indigo-1-32

Start at: 2018-04-17 20:26:47
End at: 2018-04-17 20:27:17
Local clock offset: -7.042 ms
Remote clock offset: 15.188 ms

Below is generated by plot.py at 2018-04-17 21:19:05
Datalink statistics
-- Total of 3 flows:
Average throughput: 92.60 Mbit/s
95th percentile per-packet one-way delay: 140.630 ms
Loss rate: 32.98%
-- Flow 1:
Average throughput: 67.05 Mbit/s
95th percentile per-packet one-way delay: 135.308 ms
Loss rate: 14.26%
-- Flow 2:
Average throughput: 17.64 Mbit/s
95th percentile per-packet one-way delay: 134.038 ms
Loss rate: 48.72%
-- Flow 3:
Average throughput: 43.34 Mbit/s
95th percentile per-packet one-way delay: 140.767 ms
Loss rate: 62.62%

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



Run 1: Statistics of PCC-Vivace

Start at: 2018-04-17 16:57:58

End at: 2018-04-17 16:58:28

Local clock offset: -4.866 ms

Remote clock offset: 5.477 ms

Below is generated by plot.py at 2018-04-17 21:19:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 76.23 Mbit/s

95th percentile per-packet one-way delay: 124.946 ms

Loss rate: 0.41%

-- Flow 1:

Average throughput: 66.00 Mbit/s

95th percentile per-packet one-way delay: 124.738 ms

Loss rate: 0.35%

-- Flow 2:

Average throughput: 12.02 Mbit/s

95th percentile per-packet one-way delay: 127.504 ms

Loss rate: 0.79%

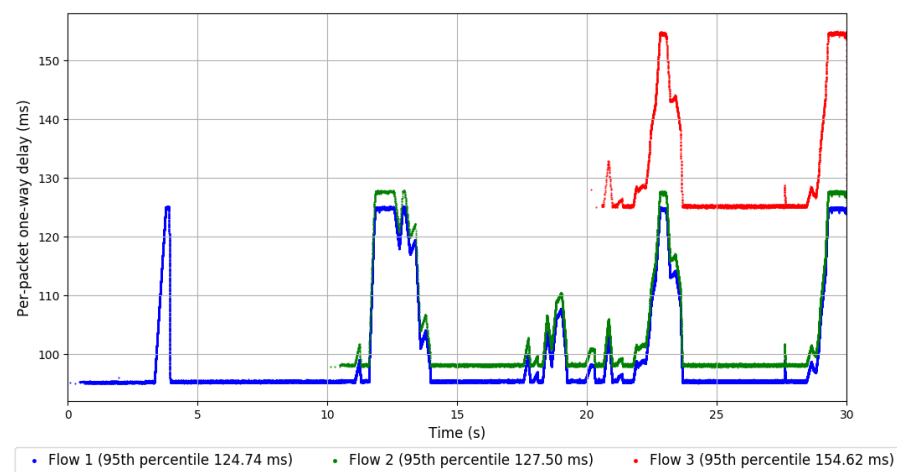
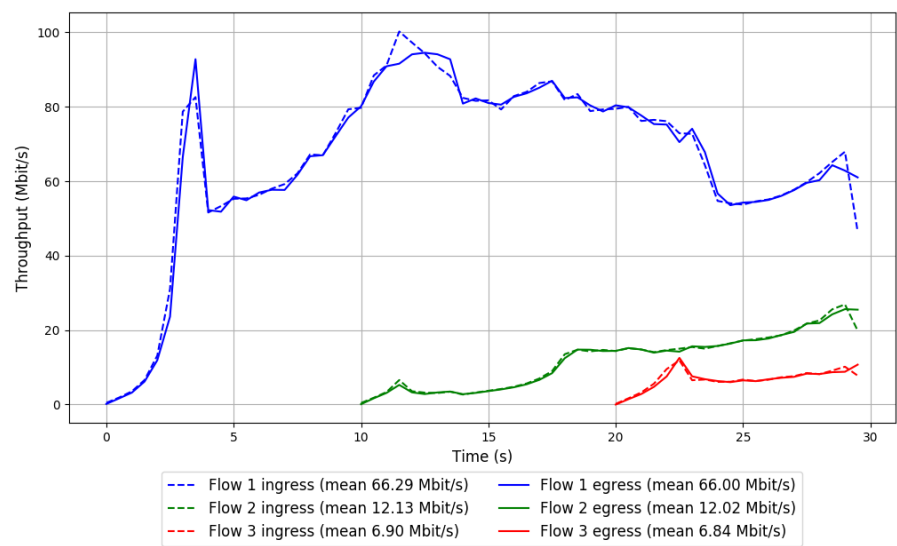
-- Flow 3:

Average throughput: 6.84 Mbit/s

95th percentile per-packet one-way delay: 154.622 ms

Loss rate: 0.84%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2018-04-17 17:20:29

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

Local clock offset: -5.224 ms

Remote clock offset: 9.801 ms

Below is generated by plot.py at 2018-04-17 21:19:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 77.99 Mbit/s

95th percentile per-packet one-way delay: 128.765 ms

Loss rate: 0.49%

-- Flow 1:

Average throughput: 63.09 Mbit/s

95th percentile per-packet one-way delay: 128.797 ms

Loss rate: 0.46%

-- Flow 2:

Average throughput: 18.14 Mbit/s

95th percentile per-packet one-way delay: 127.336 ms

Loss rate: 0.75%

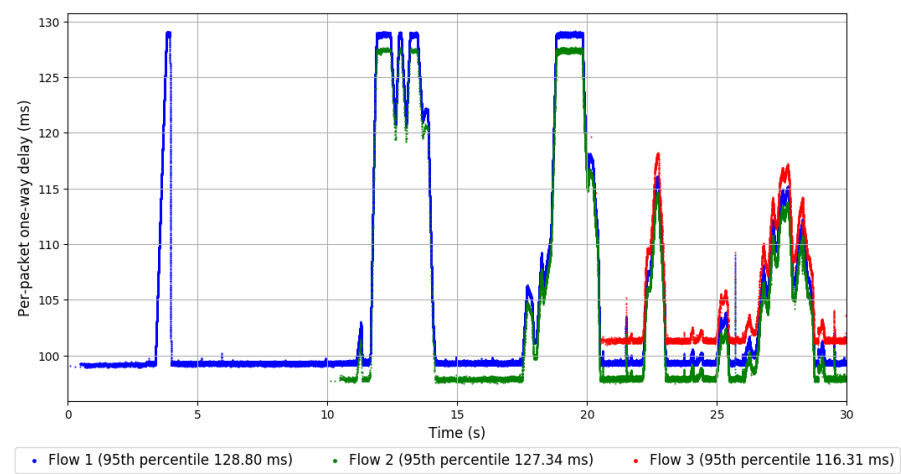
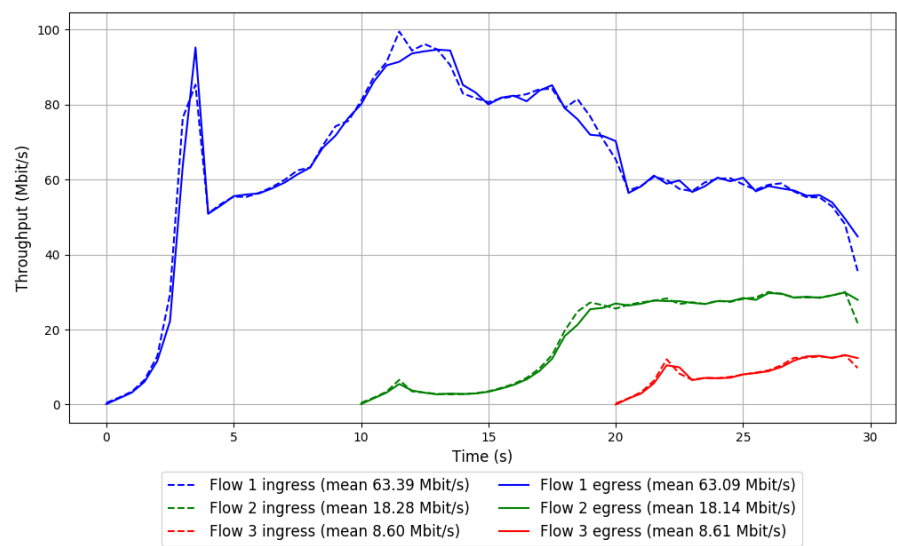
-- Flow 3:

Average throughput: 8.61 Mbit/s

95th percentile per-packet one-way delay: 116.309 ms

Loss rate: 0.04%

Run 2: Report of PCC-Vivace — Data Link

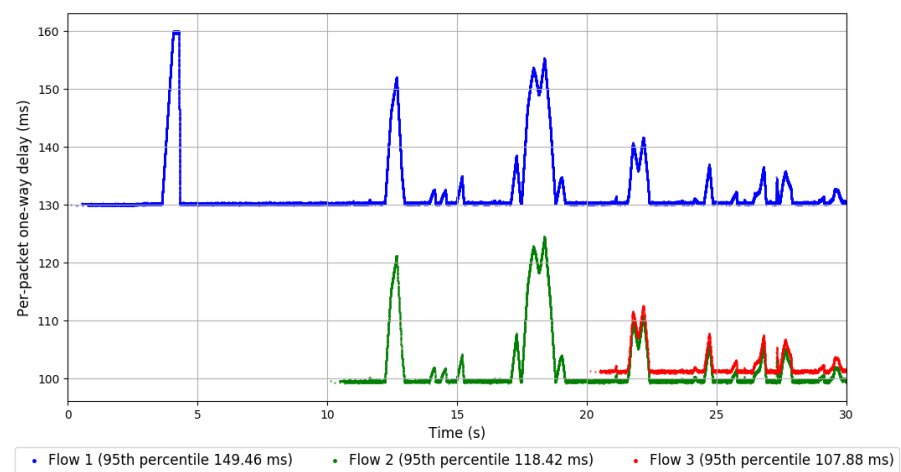
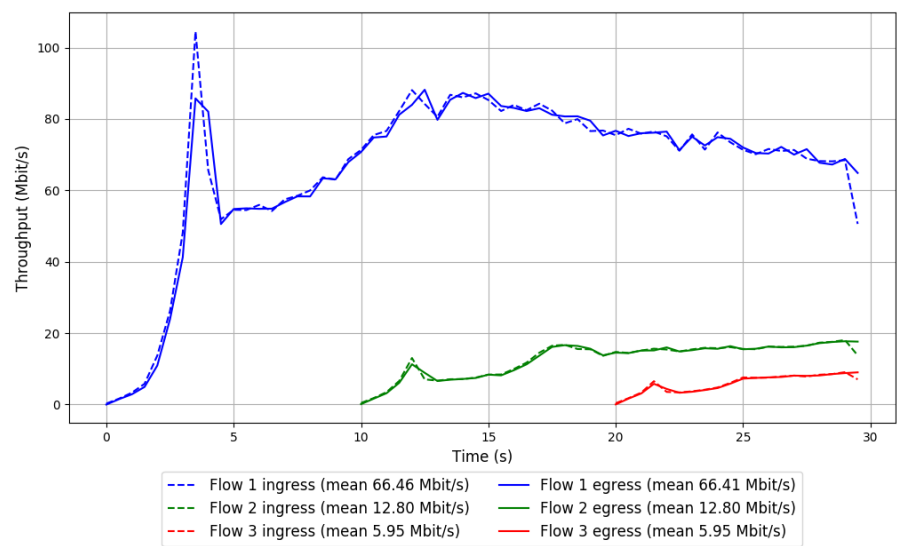


Run 3: Statistics of PCC-Vivace

Start at: 2018-04-17 17:42:48
End at: 2018-04-17 17:43:18
Local clock offset: -6.623 ms
Remote clock offset: 10.573 ms

Below is generated by plot.py at 2018-04-17 21:19:44
Datalink statistics
-- Total of 3 flows:
Average throughput: 76.89 Mbit/s
95th percentile per-packet one-way delay: 148.113 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 66.41 Mbit/s
95th percentile per-packet one-way delay: 149.462 ms
Loss rate: 0.18%
-- Flow 2:
Average throughput: 12.80 Mbit/s
95th percentile per-packet one-way delay: 118.422 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 5.95 Mbit/s
95th percentile per-packet one-way delay: 107.884 ms
Loss rate: 0.02%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2018-04-17 18:05:14

End at: 2018-04-17 18:05:44

Local clock offset: -6.04 ms

Remote clock offset: 5.152 ms

Below is generated by plot.py at 2018-04-17 21:19:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 78.67 Mbit/s

95th percentile per-packet one-way delay: 124.597 ms

Loss rate: 0.22%

-- Flow 1:

Average throughput: 70.95 Mbit/s

95th percentile per-packet one-way delay: 124.857 ms

Loss rate: 0.18%

-- Flow 2:

Average throughput: 7.22 Mbit/s

95th percentile per-packet one-way delay: 123.977 ms

Loss rate: 0.50%

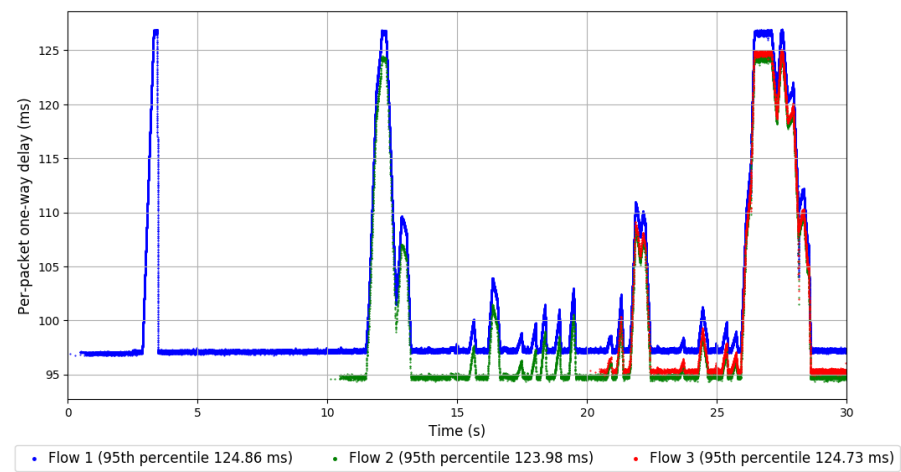
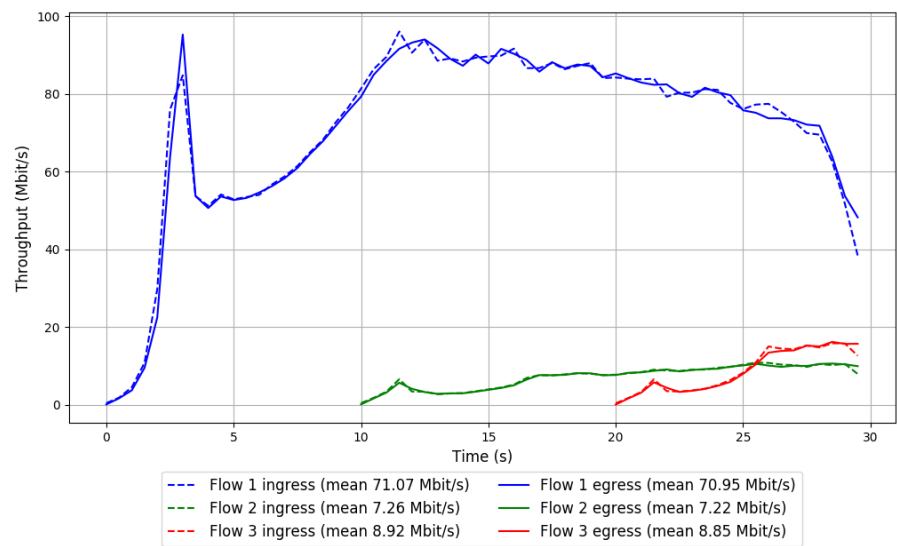
-- Flow 3:

Average throughput: 8.85 Mbit/s

95th percentile per-packet one-way delay: 124.729 ms

Loss rate: 0.68%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2018-04-17 18:27:42

End at: 2018-04-17 18:28:12

Local clock offset: -4.752 ms

Remote clock offset: 9.508 ms

Below is generated by plot.py at 2018-04-17 21:19:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 77.93 Mbit/s

95th percentile per-packet one-way delay: 110.706 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 69.83 Mbit/s

95th percentile per-packet one-way delay: 110.430 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 9.96 Mbit/s

95th percentile per-packet one-way delay: 109.522 ms

Loss rate: 0.03%

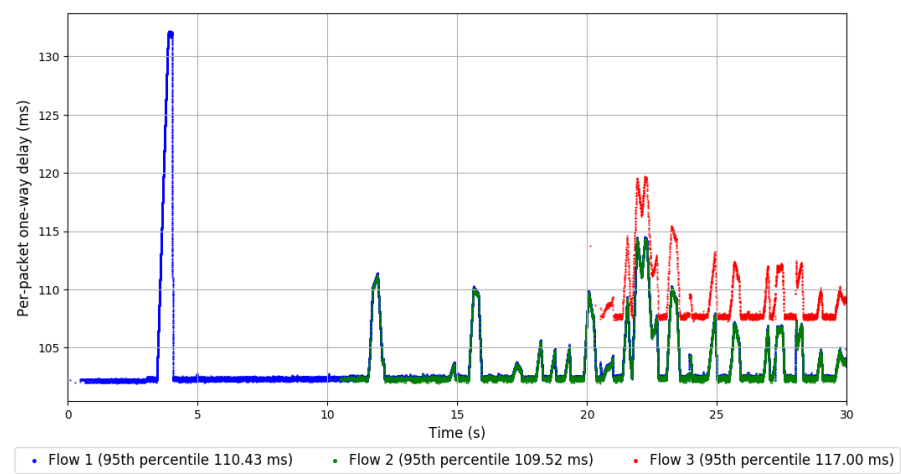
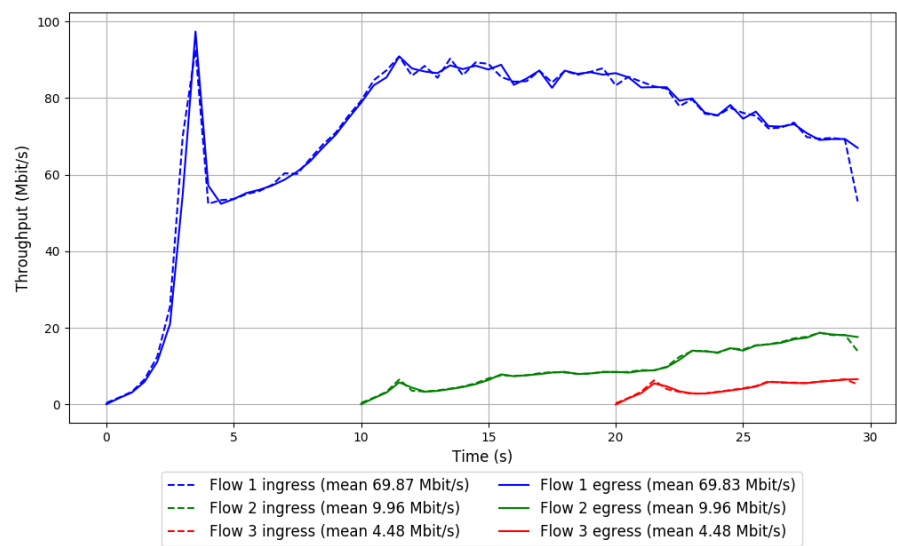
-- Flow 3:

Average throughput: 4.48 Mbit/s

95th percentile per-packet one-way delay: 116.997 ms

Loss rate: 0.13%

Run 5: Report of PCC-Vivace — Data Link

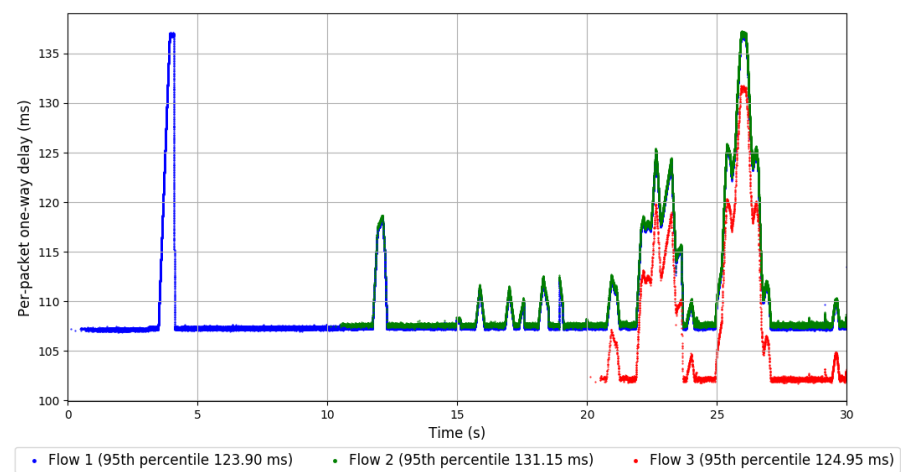
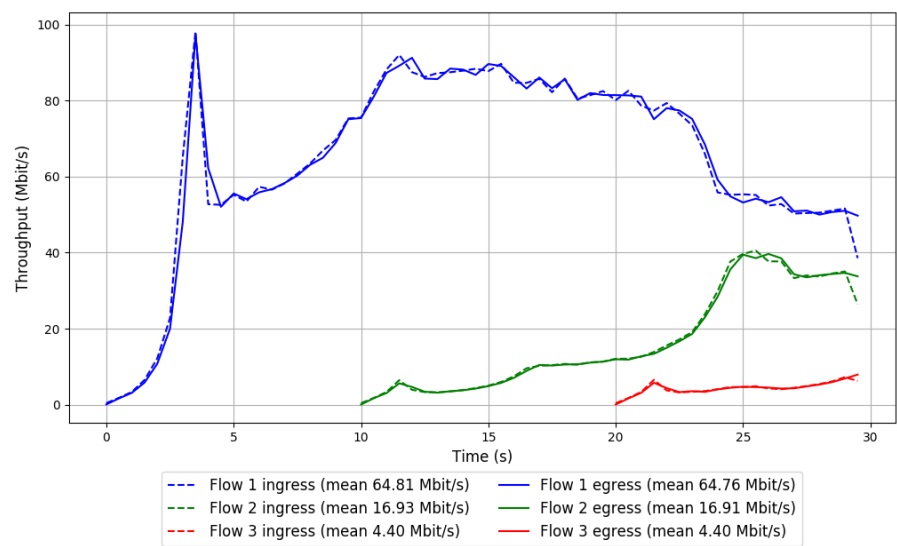


Run 6: Statistics of PCC-Vivace

Start at: 2018-04-17 18:50:08
End at: 2018-04-17 18:50:38
Local clock offset: -5.448 ms
Remote clock offset: 12.429 ms

Below is generated by plot.py at 2018-04-17 21:20:02
Datalink statistics
-- Total of 3 flows:
Average throughput: 77.45 Mbit/s
95th percentile per-packet one-way delay: 124.764 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 64.76 Mbit/s
95th percentile per-packet one-way delay: 123.903 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 16.91 Mbit/s
95th percentile per-packet one-way delay: 131.147 ms
Loss rate: 0.13%
-- Flow 3:
Average throughput: 4.40 Mbit/s
95th percentile per-packet one-way delay: 124.949 ms
Loss rate: 0.03%

Run 6: Report of PCC-Vivace — Data Link

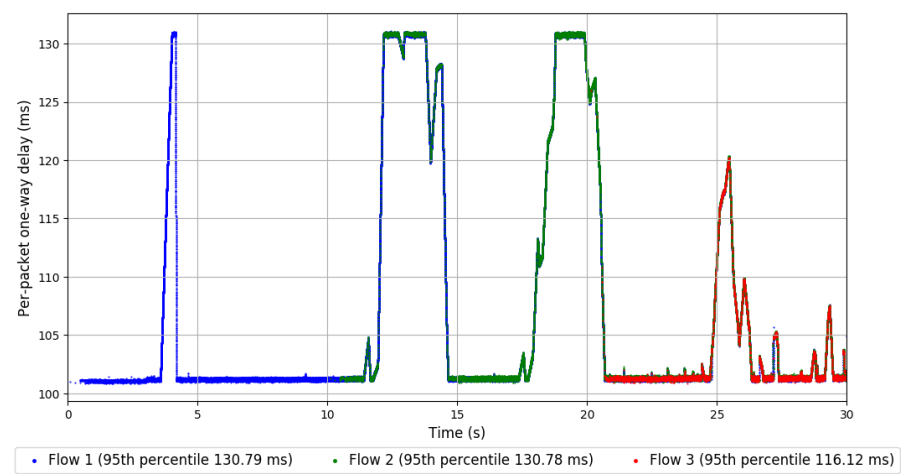
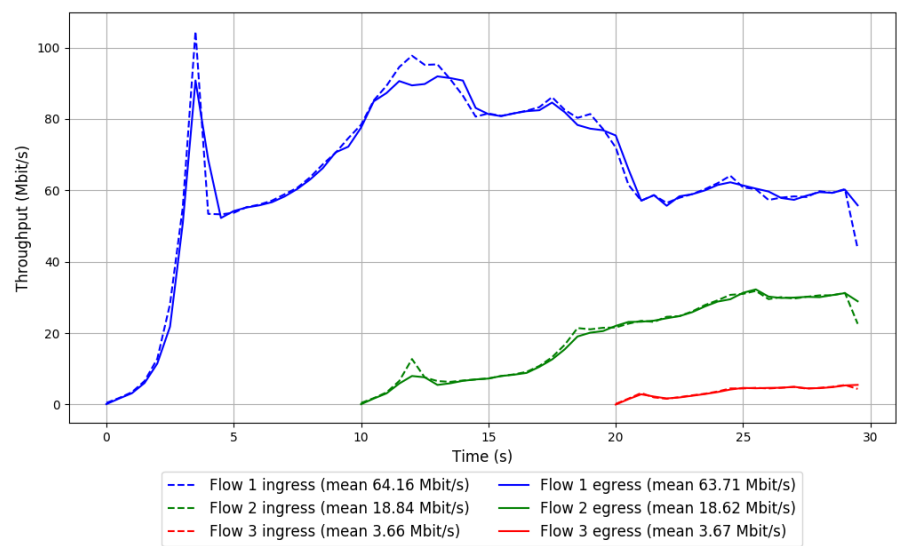


Run 7: Statistics of PCC-Vivace

Start at: 2018-04-17 19:12:32
End at: 2018-04-17 19:13:02
Local clock offset: -4.712 ms
Remote clock offset: 12.405 ms

Below is generated by plot.py at 2018-04-17 21:20:04
Datalink statistics
-- Total of 3 flows:
Average throughput: 77.29 Mbit/s
95th percentile per-packet one-way delay: 130.783 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 63.71 Mbit/s
95th percentile per-packet one-way delay: 130.786 ms
Loss rate: 0.69%
-- Flow 2:
Average throughput: 18.62 Mbit/s
95th percentile per-packet one-way delay: 130.781 ms
Loss rate: 1.19%
-- Flow 3:
Average throughput: 3.67 Mbit/s
95th percentile per-packet one-way delay: 116.125 ms
Loss rate: 0.00%

Run 7: Report of PCC-Vivace — Data Link



Run 8: Statistics of PCC-Vivace

Start at: 2018-04-17 19:35:02

End at: 2018-04-17 19:35:32

Local clock offset: -5.447 ms

Remote clock offset: 6.747 ms

Below is generated by plot.py at 2018-04-17 21:20:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 77.94 Mbit/s

95th percentile per-packet one-way delay: 129.067 ms

Loss rate: 0.16%

-- Flow 1:

Average throughput: 65.58 Mbit/s

95th percentile per-packet one-way delay: 128.539 ms

Loss rate: 0.15%

-- Flow 2:

Average throughput: 16.50 Mbit/s

95th percentile per-packet one-way delay: 130.435 ms

Loss rate: 0.22%

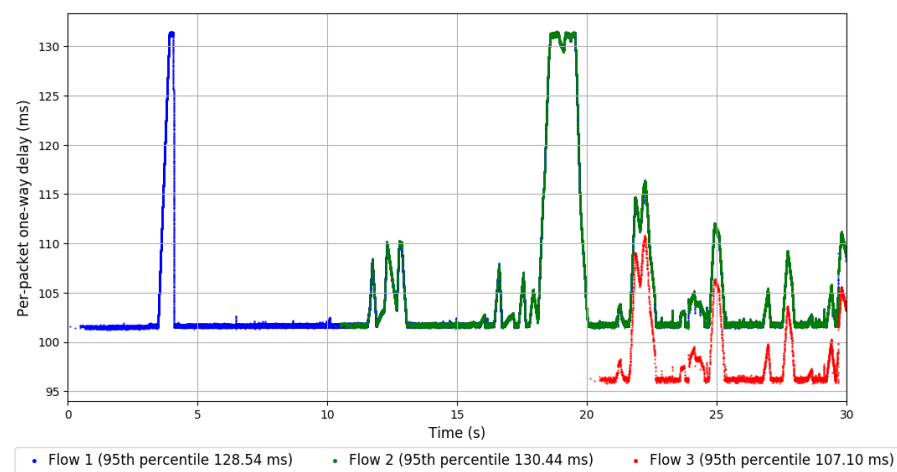
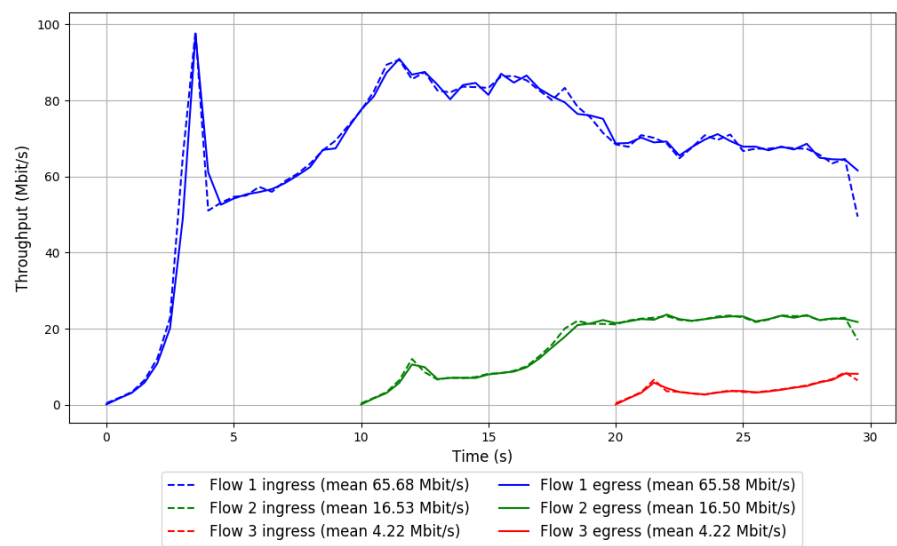
-- Flow 3:

Average throughput: 4.22 Mbit/s

95th percentile per-packet one-way delay: 107.100 ms

Loss rate: 0.03%

Run 8: Report of PCC-Vivace — Data Link



Run 9: Statistics of PCC-Vivace

Start at: 2018-04-17 19:57:16

End at: 2018-04-17 19:57:46

Local clock offset: -7.108 ms

Remote clock offset: 8.471 ms

Below is generated by plot.py at 2018-04-17 21:20:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 76.93 Mbit/s

95th percentile per-packet one-way delay: 131.727 ms

Loss rate: 1.57%

-- Flow 1:

Average throughput: 68.22 Mbit/s

95th percentile per-packet one-way delay: 131.735 ms

Loss rate: 1.41%

-- Flow 2:

Average throughput: 11.49 Mbit/s

95th percentile per-packet one-way delay: 130.256 ms

Loss rate: 3.10%

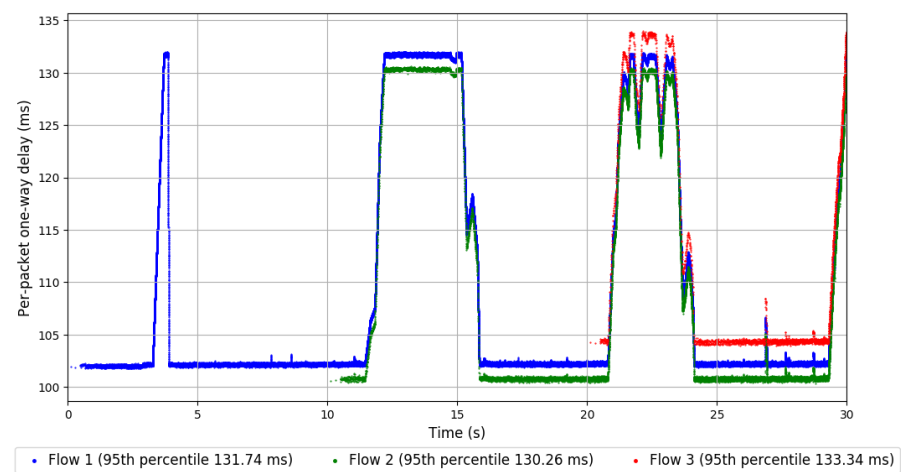
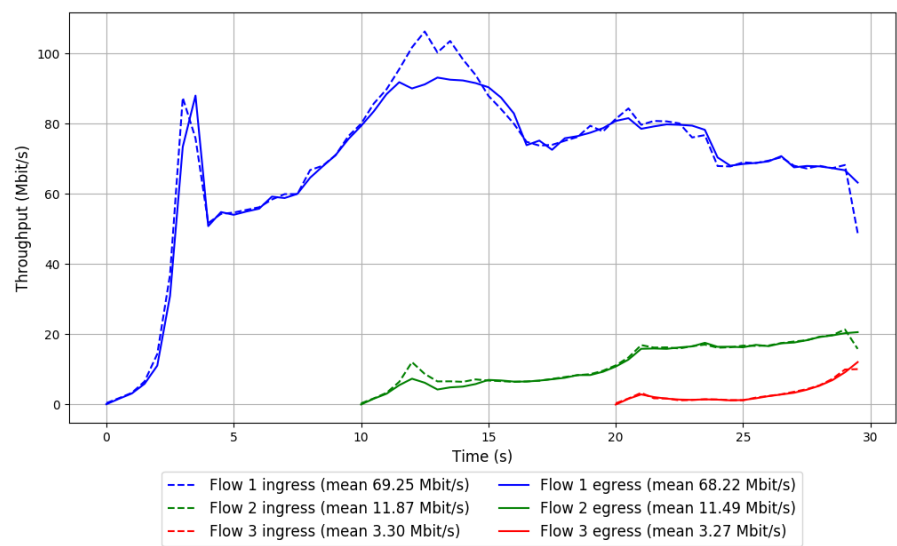
-- Flow 3:

Average throughput: 3.27 Mbit/s

95th percentile per-packet one-way delay: 133.335 ms

Loss rate: 0.68%

Run 9: Report of PCC-Vivace — Data Link

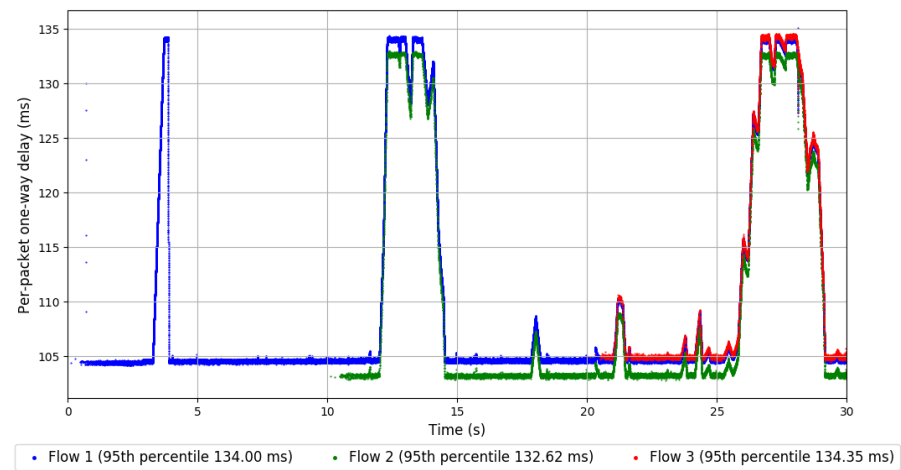
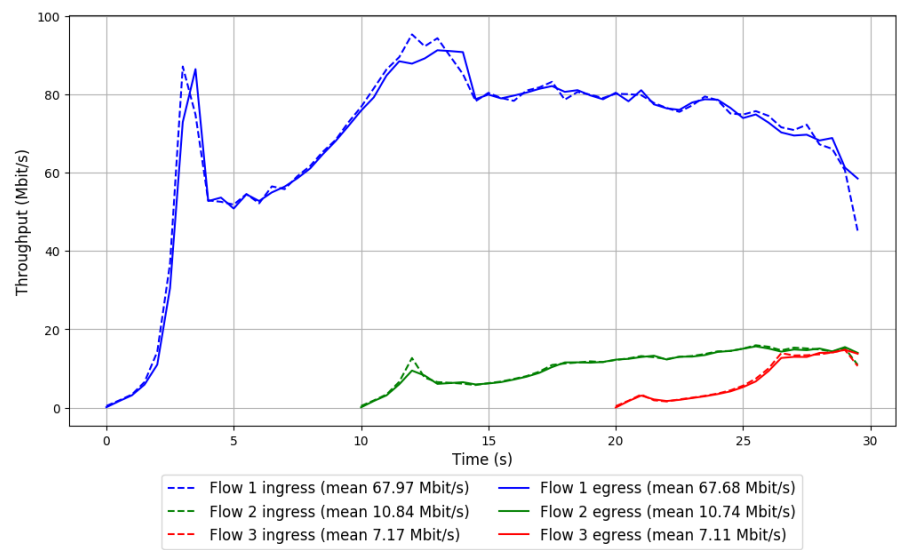


Run 10: Statistics of PCC-Vivace

Start at: 2018-04-17 20:19:52
End at: 2018-04-17 20:20:22
Local clock offset: -6.412 ms
Remote clock offset: 14.093 ms

Below is generated by plot.py at 2018-04-17 21:20:12
Datalink statistics
-- Total of 3 flows:
Average throughput: 77.16 Mbit/s
95th percentile per-packet one-way delay: 133.995 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 67.68 Mbit/s
95th percentile per-packet one-way delay: 134.000 ms
Loss rate: 0.44%
-- Flow 2:
Average throughput: 10.74 Mbit/s
95th percentile per-packet one-way delay: 132.624 ms
Loss rate: 1.01%
-- Flow 3:
Average throughput: 7.11 Mbit/s
95th percentile per-packet one-way delay: 134.352 ms
Loss rate: 0.93%

Run 10: Report of PCC-Vivace — Data Link



Run 1: Statistics of PCC-Expr

Start at: 2018-04-17 17:08:58

End at: 2018-04-17 17:09:28

Local clock offset: -4.859 ms

Remote clock offset: 9.69 ms

Run 1: Report of PCC-Expr — Data Link

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Run 2: Statistics of PCC-Expr

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

End at: 2018-04-17 17:31:47

Local clock offset: -5.779 ms

Remote clock offset: 6.342 ms

Run 2: Report of PCC-Expr — Data Link

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Figure is missing

Run 3: Statistics of PCC-Expr

Start at: 2018-04-17 17:53:42

End at: 2018-04-17 17:54:12

Local clock offset: -5.166 ms

Remote clock offset: 6.023 ms

Run 3: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 4: Statistics of PCC-Expr

Start at: 2018-04-17 18:16:09

End at: 2018-04-17 18:16:39

Local clock offset: -4.153 ms

Remote clock offset: 4.836 ms

Run 4: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 5: Statistics of PCC-Expr

Start at: 2018-04-17 18:38:35

End at: 2018-04-17 18:39:05

Local clock offset: -5.228 ms

Remote clock offset: 5.53 ms

Run 5: Report of PCC-Expr — Data Link

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Figure is missing

Run 6: Statistics of PCC-Expr

Start at: 2018-04-17 19:00:47

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

Local clock offset: -6.351 ms

Remote clock offset: 12.542 ms

Run 6: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 7: Statistics of PCC-Expr

Start at: 2018-04-17 19:23:30

End at: 2018-04-17 19:24:00

Local clock offset: -6.226 ms

Remote clock offset: 12.391 ms

Run 7: Report of PCC-Expr — Data Link

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Figure is missing

Run 8: Statistics of PCC-Expr

Start at: 2018-04-17 19:45:43

End at: 2018-04-17 19:46:13

Local clock offset: -6.74 ms

Remote clock offset: 6.94 ms

Run 8: Report of PCC-Expr — Data Link

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Figure is missing

Run 9: Statistics of PCC-Expr

Start at: 2018-04-17 20:08:19

End at: 2018-04-17 20:08:49

Local clock offset: -6.615 ms

Remote clock offset: 8.086 ms

Run 9: Report of PCC-Expr — Data Link

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Figure is missing

Run 10: Statistics of PCC-Expr

Start at: 2018-04-17 20:30:47

End at: 2018-04-17 20:31:17

Local clock offset: -6.246 ms

Remote clock offset: 15.269 ms

Run 10: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing