

Pantheon Report

Generated at 2018-04-25 01:19:15 (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**).

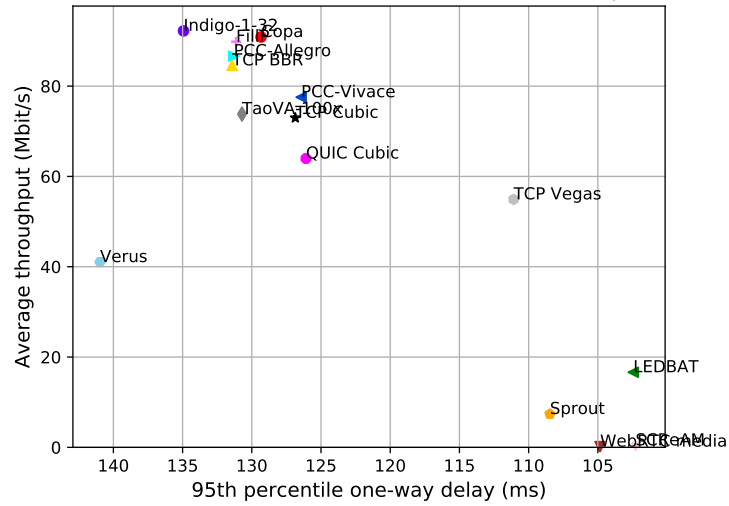
NTP offsets were measured against **gps.ntp.br** and have been applied to correct the timestamps in logs.

Git summary:

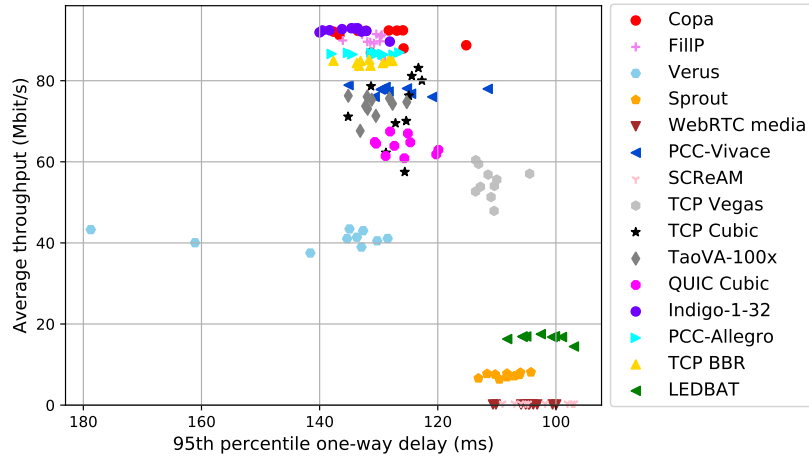
```
branch: master @ 114e807ac1bad7b85168ceb1f8a969063ee6c12c
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ 11f8c46a2bf1dc797253db7e8ca04076272b2a44
third_party/genericCC @ d223989828276fa83a807da6e0341dc0c7b89aec
third_party/indigo @ a9b2060d39e4da2e8987e893e3eca2a6c7cd0ab9
third_party/indigo-1-layer-128-unit @ 3ae9e4ef4230db7484501f82ce8b377695f2f66d
third_party/indigo-1-layer-32-unit @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/indigo-1-layer-32-unit-no-calib @ 1f3a7f75b41135ed5b540c0fd3505939528e2a5f
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
  M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ fb1053193c2861da659ba9013db26744ccfcf993
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
  M receiver/src/buffer.h
  M receiver/src/core.cpp
  M sender/src/buffer.h
  M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quick @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eaaeb30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
  M src/examples/cellsim.cc
  M src/examples/sproutbt2.cc
  M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/vivace @ 7a4ba531e75b4a6f66f5c4580192120401784ce3
```

third_party/webrtc @ f271183af822eee5d0031620f4bebf38aedc5581

test from AWS 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



[illegible]

Run 1: Statistics of TCP BBR

Start at: 2018-04-24 20:53:09

End at: 2018-04-24 20:53:39

Local clock offset: -5.516 ms

Remote clock offset: 3.752 ms

Below is generated by plot.py at 2018-04-25 00:54:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.94 Mbit/s

95th percentile per-packet one-way delay: 128.338 ms

Loss rate: 5.74%

-- Flow 1:

Average throughput: 55.45 Mbit/s

95th percentile per-packet one-way delay: 127.953 ms

Loss rate: 5.38%

-- Flow 2:

Average throughput: 37.44 Mbit/s

95th percentile per-packet one-way delay: 128.558 ms

Loss rate: 6.96%

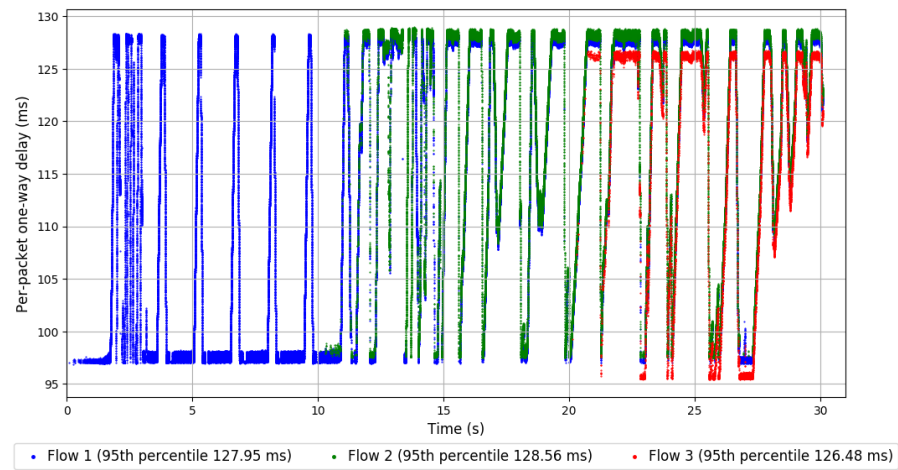
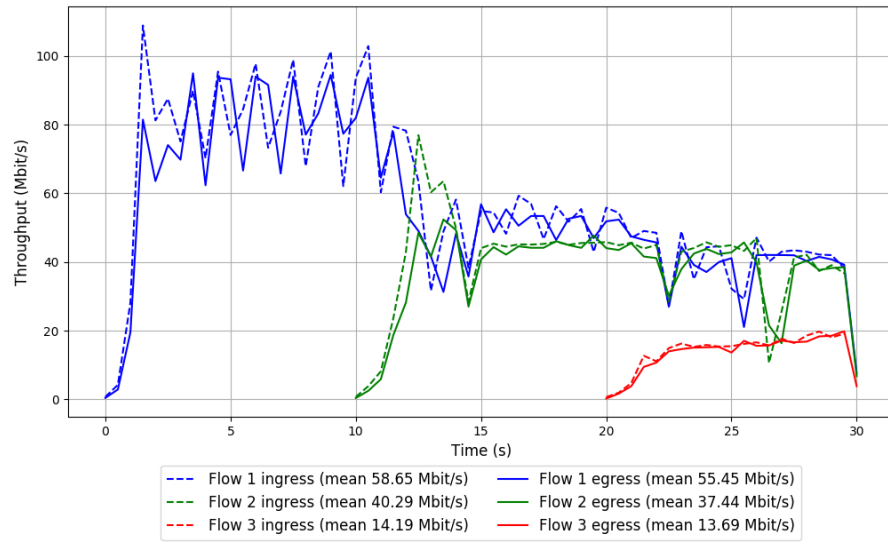
-- Flow 3:

Average throughput: 13.69 Mbit/s

95th percentile per-packet one-way delay: 126.483 ms

Loss rate: 3.25%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-04-24 21:15:45

End at: 2018-04-24 21:16:15

Local clock offset: -4.158 ms

Remote clock offset: 8.517 ms

Below is generated by plot.py at 2018-04-25 00:54:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 83.71 Mbit/s

95th percentile per-packet one-way delay: 131.388 ms

Loss rate: 9.50%

-- Flow 1:

Average throughput: 52.01 Mbit/s

95th percentile per-packet one-way delay: 129.613 ms

Loss rate: 8.58%

-- Flow 2:

Average throughput: 37.76 Mbit/s

95th percentile per-packet one-way delay: 131.334 ms

Loss rate: 9.91%

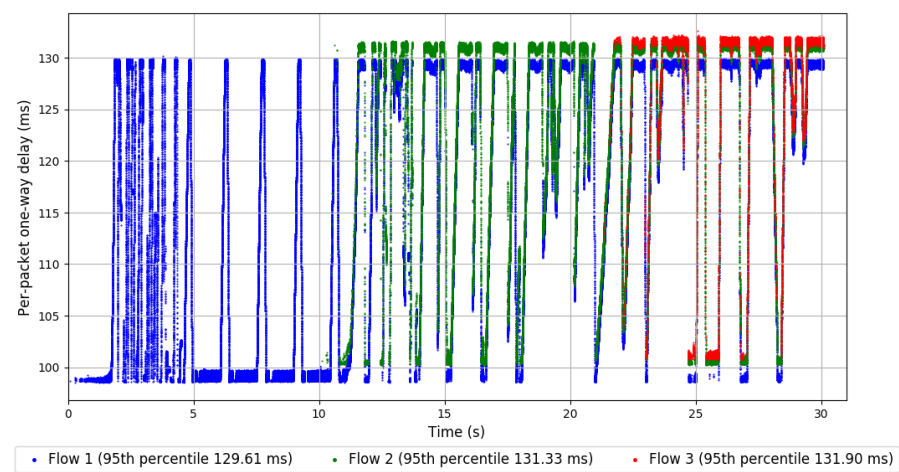
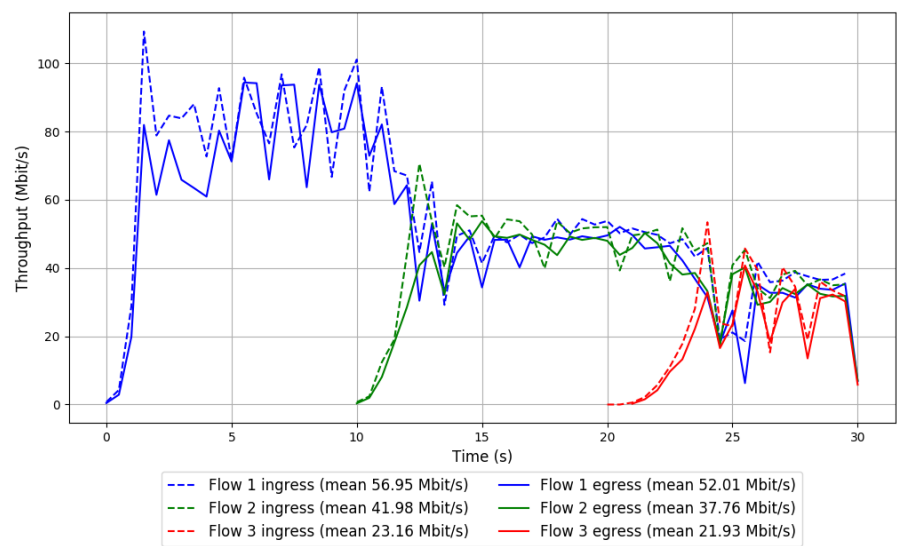
-- Flow 3:

Average throughput: 21.93 Mbit/s

95th percentile per-packet one-way delay: 131.896 ms

Loss rate: 14.79%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-04-24 21:38:21

End at: 2018-04-24 21:38:51

Local clock offset: -5.692 ms

Remote clock offset: 4.694 ms

Below is generated by plot.py at 2018-04-25 00:54:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.90 Mbit/s

95th percentile per-packet one-way delay: 127.670 ms

Loss rate: 6.57%

-- Flow 1:

Average throughput: 56.30 Mbit/s

95th percentile per-packet one-way delay: 127.131 ms

Loss rate: 6.00%

-- Flow 2:

Average throughput: 30.18 Mbit/s

95th percentile per-packet one-way delay: 127.977 ms

Loss rate: 5.68%

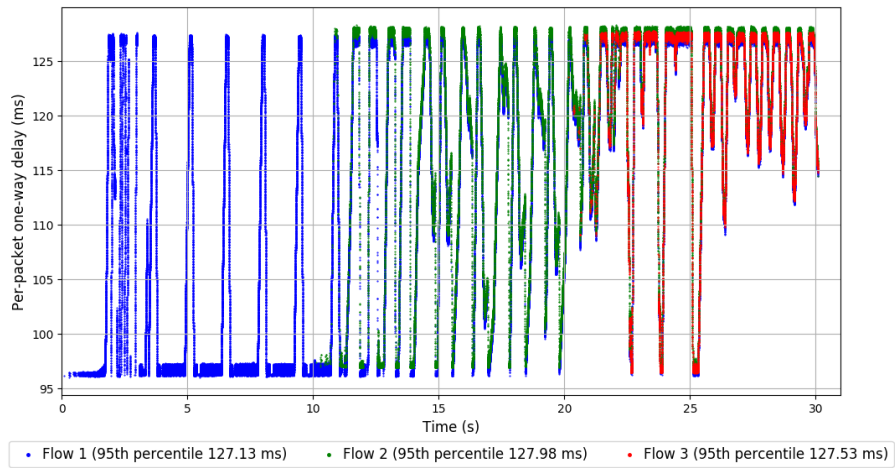
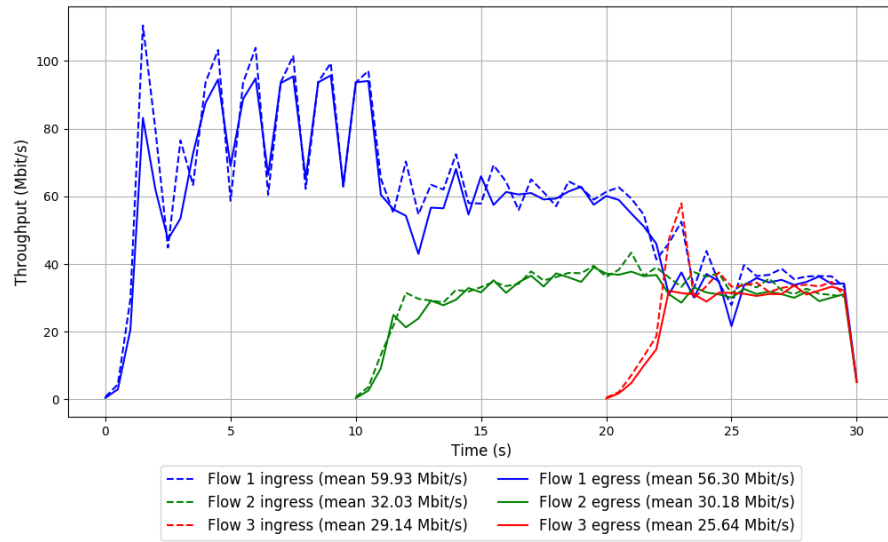
-- Flow 3:

Average throughput: 25.64 Mbit/s

95th percentile per-packet one-way delay: 127.529 ms

Loss rate: 12.09%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-04-24 22:00:51

End at: 2018-04-24 22:01:21

Local clock offset: -4.905 ms

Remote clock offset: 4.465 ms

Below is generated by plot.py at 2018-04-25 00:54:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.88 Mbit/s

95th percentile per-packet one-way delay: 128.182 ms

Loss rate: 8.34%

-- Flow 1:

Average throughput: 52.51 Mbit/s

95th percentile per-packet one-way delay: 127.147 ms

Loss rate: 6.94%

-- Flow 2:

Average throughput: 35.54 Mbit/s

95th percentile per-packet one-way delay: 128.130 ms

Loss rate: 9.54%

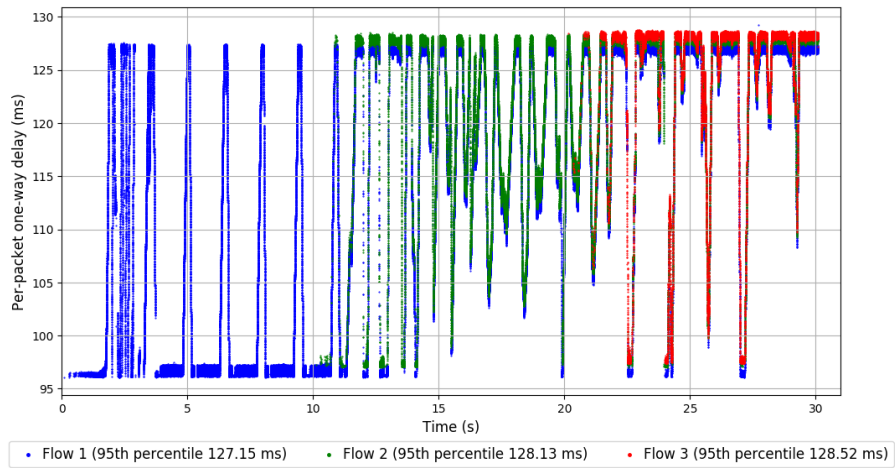
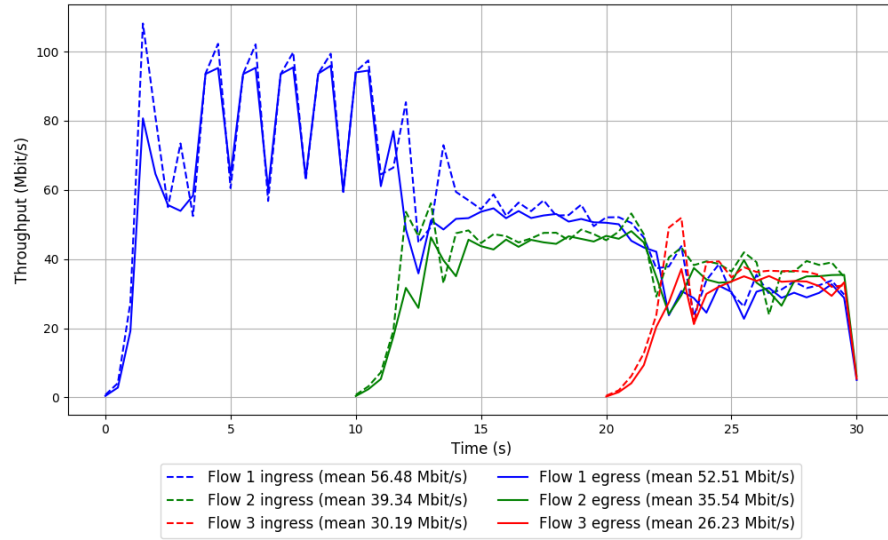
-- Flow 3:

Average throughput: 26.23 Mbit/s

95th percentile per-packet one-way delay: 128.519 ms

Loss rate: 13.14%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

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

End at: 2018-04-24 22:23:54

Local clock offset: -4.588 ms

Remote clock offset: 4.257 ms

Below is generated by plot.py at 2018-04-25 00:54:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.37 Mbit/s

95th percentile per-packet one-way delay: 129.272 ms

Loss rate: 9.54%

-- Flow 1:

Average throughput: 52.03 Mbit/s

95th percentile per-packet one-way delay: 127.660 ms

Loss rate: 7.49%

-- Flow 2:

Average throughput: 41.29 Mbit/s

95th percentile per-packet one-way delay: 129.427 ms

Loss rate: 13.49%

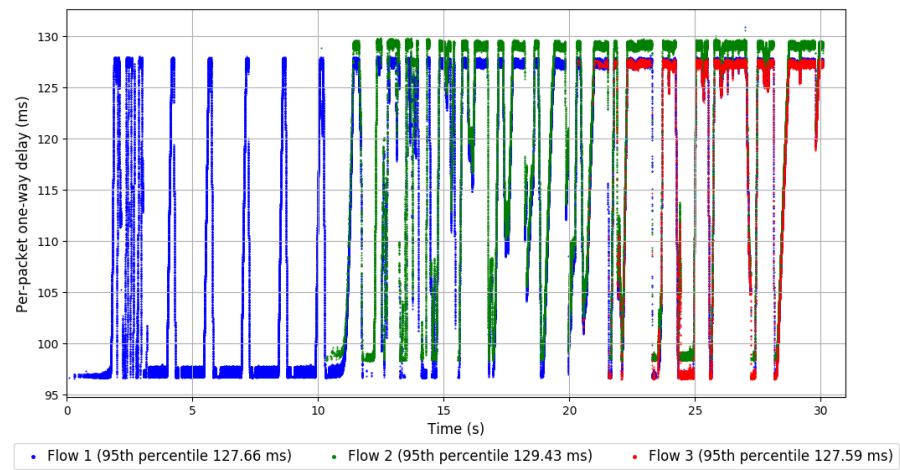
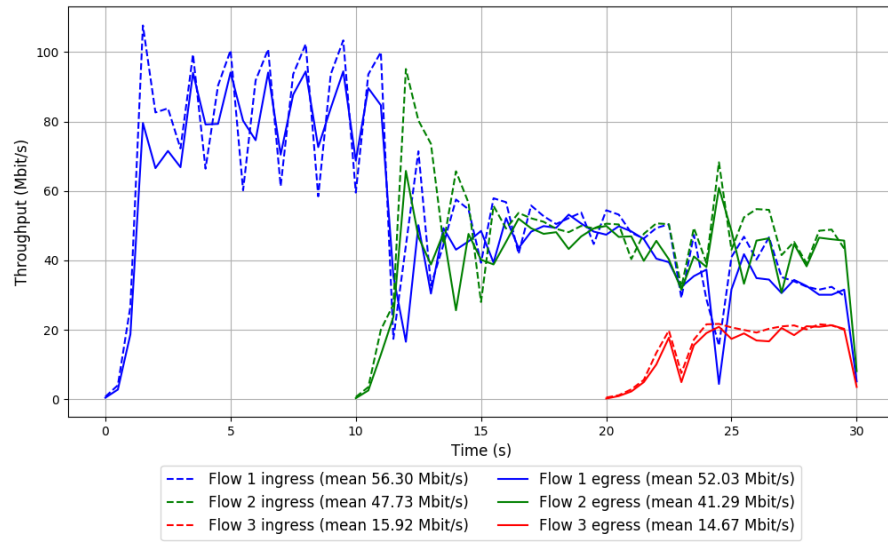
-- Flow 3:

Average throughput: 14.67 Mbit/s

95th percentile per-packet one-way delay: 127.586 ms

Loss rate: 7.65%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-04-24 22:45:55

End at: 2018-04-24 22:46:25

Local clock offset: -6.194 ms

Remote clock offset: 7.858 ms

Below is generated by plot.py at 2018-04-25 00:54:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.88 Mbit/s

95th percentile per-packet one-way delay: 133.083 ms

Loss rate: 7.46%

-- Flow 1:

Average throughput: 51.12 Mbit/s

95th percentile per-packet one-way delay: 131.395 ms

Loss rate: 6.43%

-- Flow 2:

Average throughput: 38.15 Mbit/s

95th percentile per-packet one-way delay: 133.324 ms

Loss rate: 9.07%

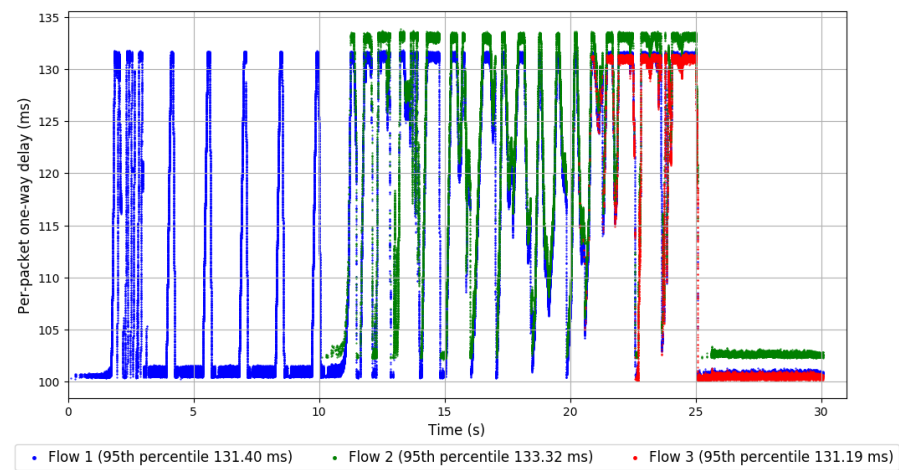
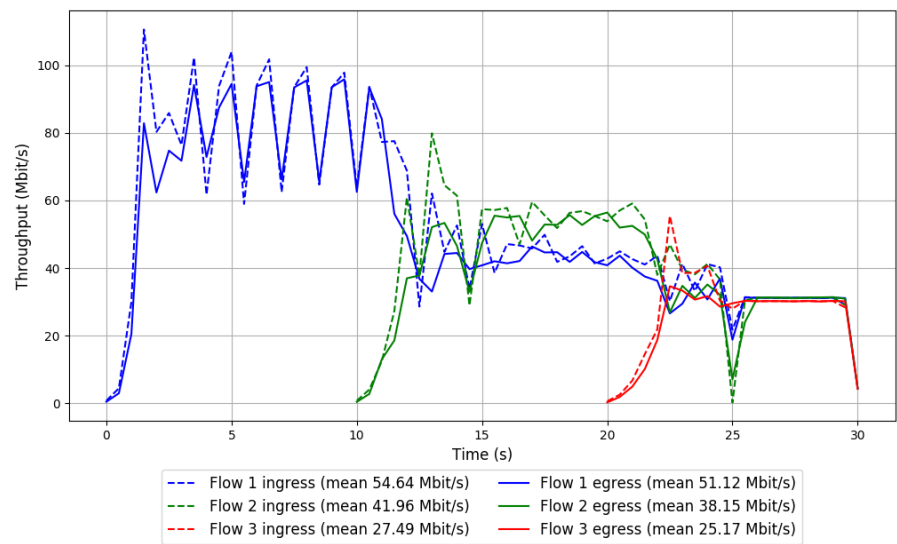
-- Flow 3:

Average throughput: 25.17 Mbit/s

95th percentile per-packet one-way delay: 131.191 ms

Loss rate: 8.65%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-04-24 23:08:31

End at: 2018-04-24 23:09:01

Local clock offset: -4.366 ms

Remote clock offset: 6.502 ms

Below is generated by plot.py at 2018-04-25 00:54:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.20 Mbit/s

95th percentile per-packet one-way delay: 131.619 ms

Loss rate: 7.76%

-- Flow 1:

Average throughput: 51.01 Mbit/s

95th percentile per-packet one-way delay: 130.259 ms

Loss rate: 5.76%

-- Flow 2:

Average throughput: 37.25 Mbit/s

95th percentile per-packet one-way delay: 130.389 ms

Loss rate: 8.62%

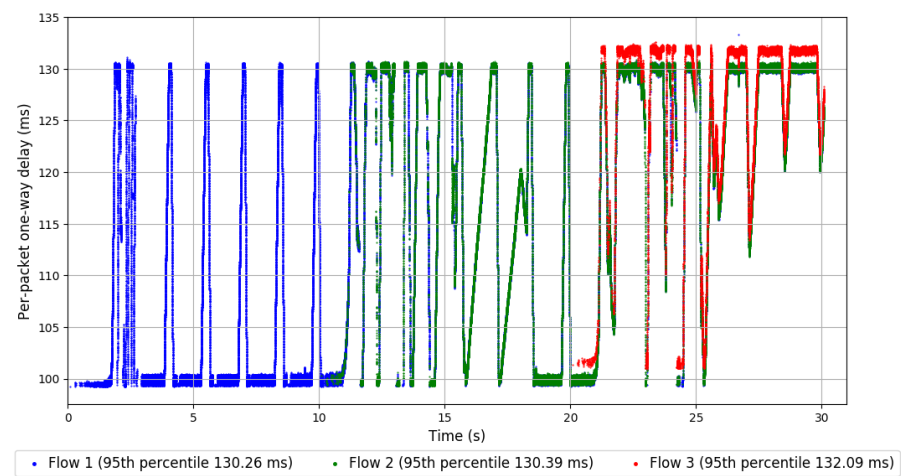
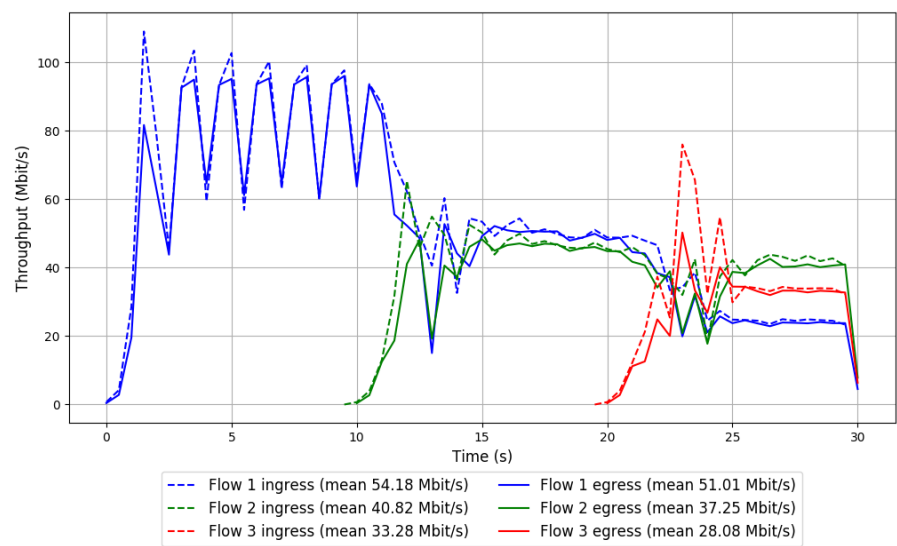
-- Flow 3:

Average throughput: 28.08 Mbit/s

95th percentile per-packet one-way delay: 132.091 ms

Loss rate: 15.41%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-04-24 23:31:06

End at: 2018-04-24 23:31:36

Local clock offset: -5.04 ms

Remote clock offset: 3.2 ms

Below is generated by plot.py at 2018-04-25 00:54:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.36 Mbit/s

95th percentile per-packet one-way delay: 133.710 ms

Loss rate: 10.30%

-- Flow 1:

Average throughput: 53.76 Mbit/s

95th percentile per-packet one-way delay: 128.315 ms

Loss rate: 7.68%

-- Flow 2:

Average throughput: 35.29 Mbit/s

95th percentile per-packet one-way delay: 133.904 ms

Loss rate: 10.97%

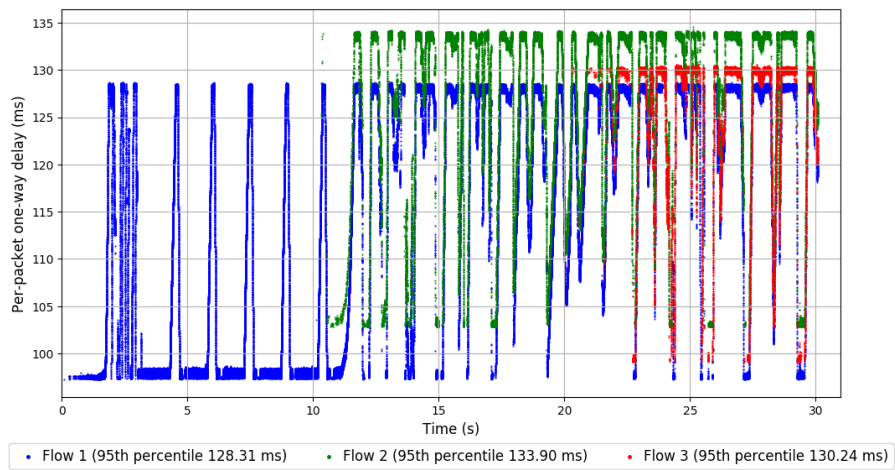
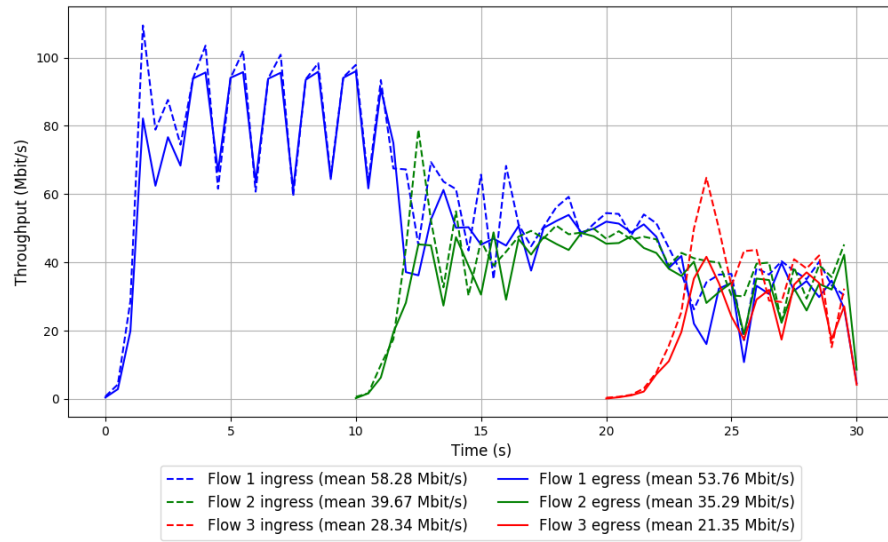
-- Flow 3:

Average throughput: 21.35 Mbit/s

95th percentile per-packet one-way delay: 130.242 ms

Loss rate: 24.57%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-04-24 23:53:19

End at: 2018-04-24 23:53:49

Local clock offset: -4.228 ms

Remote clock offset: 6.666 ms

Below is generated by plot.py at 2018-04-25 00:56:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 83.71 Mbit/s

95th percentile per-packet one-way delay: 133.316 ms

Loss rate: 10.23%

-- Flow 1:

Average throughput: 50.35 Mbit/s

95th percentile per-packet one-way delay: 133.407 ms

Loss rate: 8.33%

-- Flow 2:

Average throughput: 36.74 Mbit/s

95th percentile per-packet one-way delay: 129.923 ms

Loss rate: 11.04%

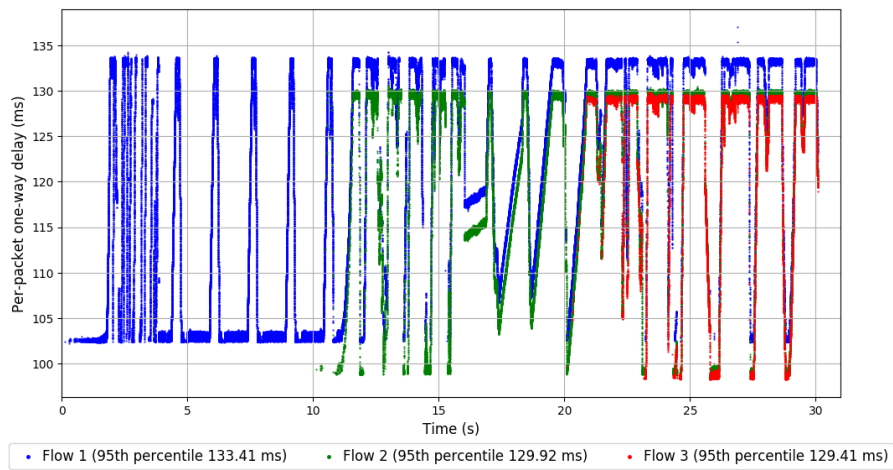
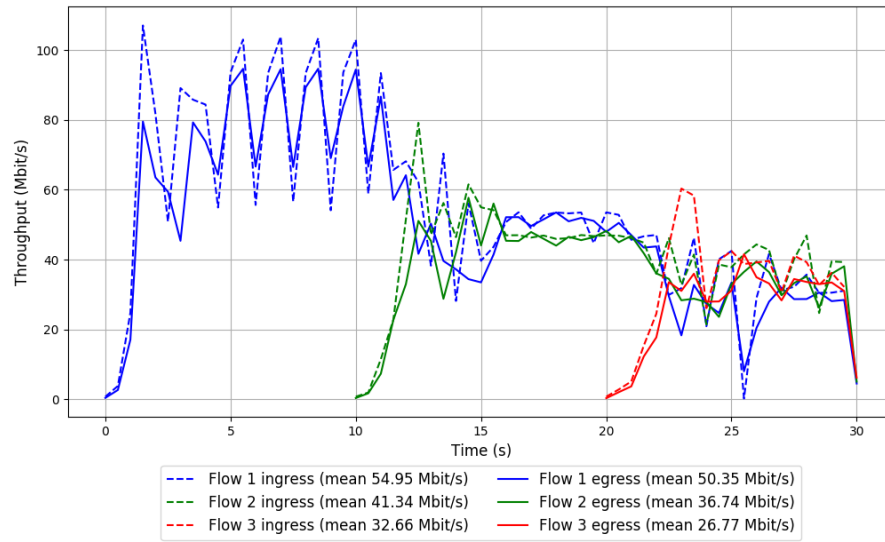
-- Flow 3:

Average throughput: 26.77 Mbit/s

95th percentile per-packet one-way delay: 129.407 ms

Loss rate: 17.87%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-04-25 00:15:57

End at: 2018-04-25 00:16:27

Local clock offset: -5.058 ms

Remote clock offset: 6.129 ms

Below is generated by plot.py at 2018-04-25 00:56:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.94 Mbit/s

95th percentile per-packet one-way delay: 137.656 ms

Loss rate: 9.47%

-- Flow 1:

Average throughput: 52.98 Mbit/s

95th percentile per-packet one-way delay: 130.180 ms

Loss rate: 7.63%

-- Flow 2:

Average throughput: 35.92 Mbit/s

95th percentile per-packet one-way delay: 131.142 ms

Loss rate: 11.54%

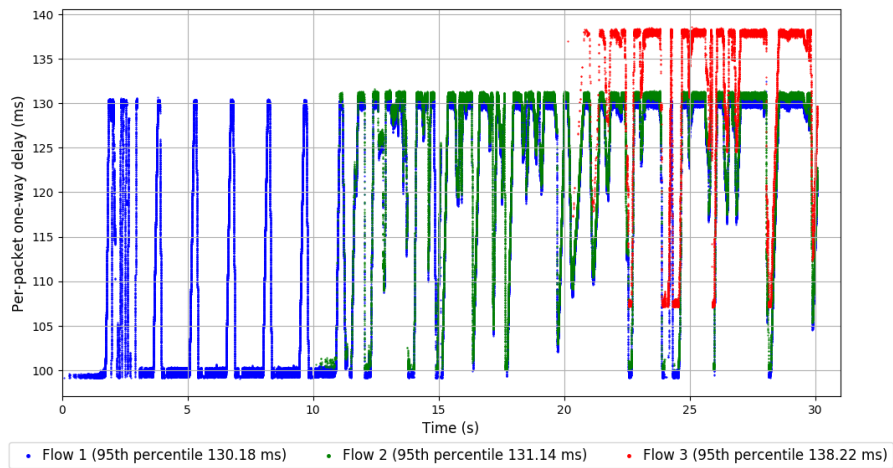
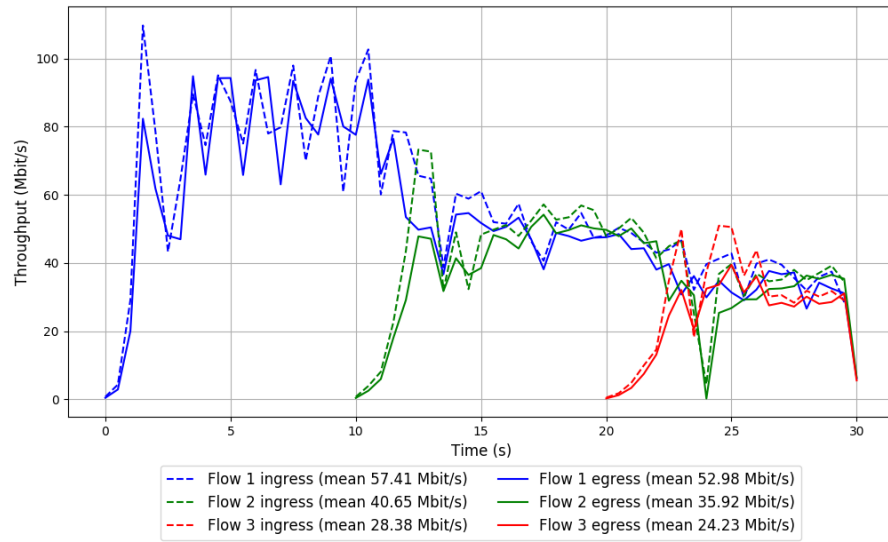
-- Flow 3:

Average throughput: 24.23 Mbit/s

95th percentile per-packet one-way delay: 138.219 ms

Loss rate: 14.75%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-04-24 20:45:20

End at: 2018-04-24 20:45:50

Local clock offset: -5.589 ms

Remote clock offset: 3.419 ms

Below is generated by plot.py at 2018-04-25 00:56:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 62.24 Mbit/s

95th percentile per-packet one-way delay: 128.778 ms

Loss rate: 1.10%

-- Flow 1:

Average throughput: 24.63 Mbit/s

95th percentile per-packet one-way delay: 126.066 ms

Loss rate: 1.06%

-- Flow 2:

Average throughput: 36.89 Mbit/s

95th percentile per-packet one-way delay: 129.573 ms

Loss rate: 1.05%

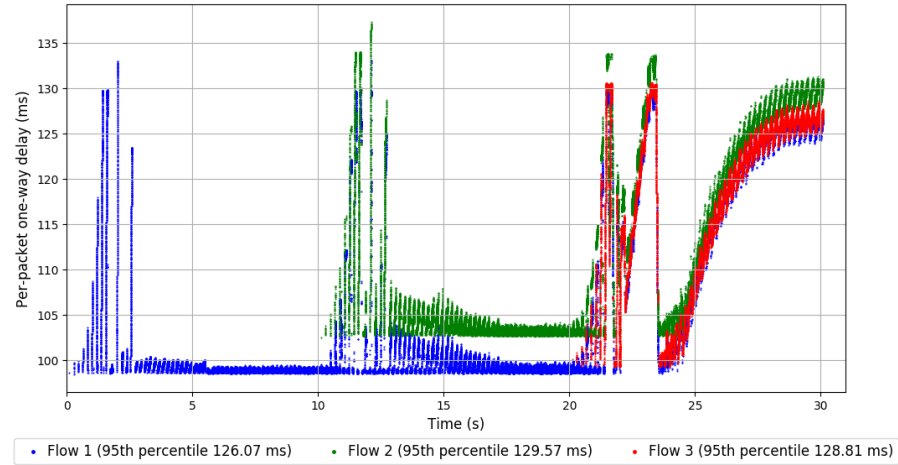
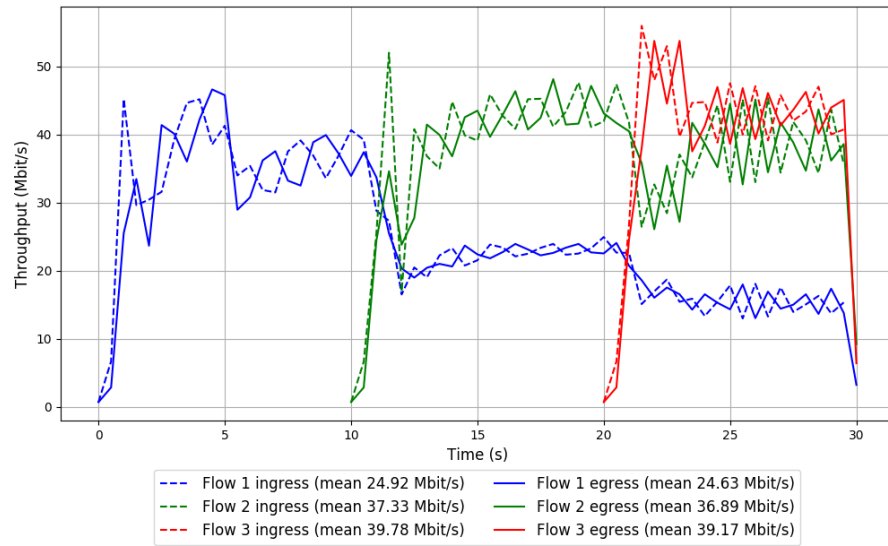
-- Flow 3:

Average throughput: 39.17 Mbit/s

95th percentile per-packet one-way delay: 128.805 ms

Loss rate: 1.27%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-04-24 21:07:56

End at: 2018-04-24 21:08:26

Local clock offset: -4.964 ms

Remote clock offset: 4.703 ms

Below is generated by plot.py at 2018-04-25 00:56:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 81.16 Mbit/s

95th percentile per-packet one-way delay: 124.398 ms

Loss rate: 0.54%

-- Flow 1:

Average throughput: 40.90 Mbit/s

95th percentile per-packet one-way delay: 120.411 ms

Loss rate: 0.50%

-- Flow 2:

Average throughput: 53.73 Mbit/s

95th percentile per-packet one-way delay: 127.974 ms

Loss rate: 0.53%

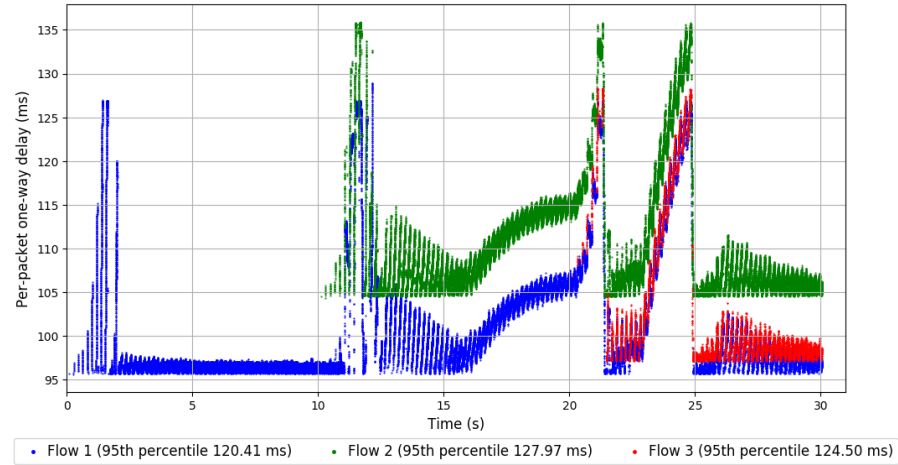
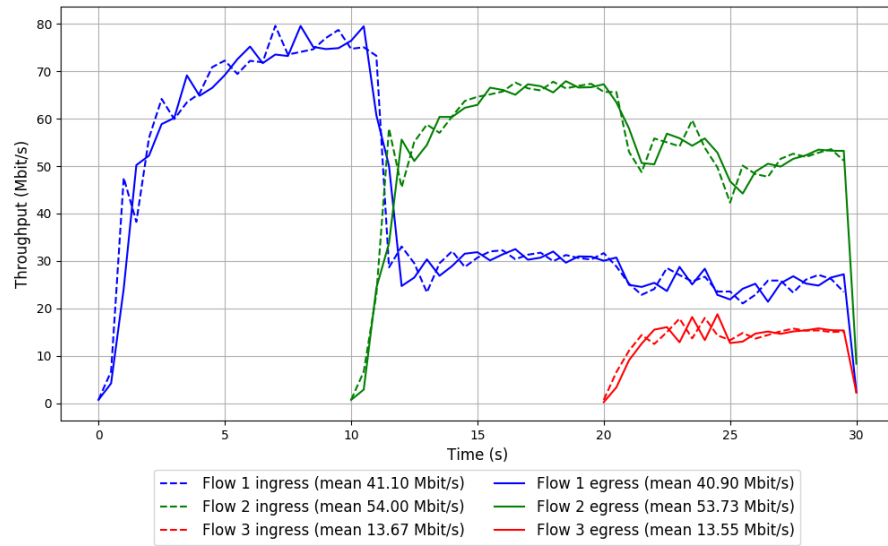
-- Flow 3:

Average throughput: 13.55 Mbit/s

95th percentile per-packet one-way delay: 124.501 ms

Loss rate: 0.94%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-04-24 21:30:26

End at: 2018-04-24 21:30:56

Local clock offset: -4.125 ms

Remote clock offset: 8.459 ms

Below is generated by plot.py at 2018-04-25 00:56:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 69.51 Mbit/s

95th percentile per-packet one-way delay: 127.159 ms

Loss rate: 0.45%

-- Flow 1:

Average throughput: 27.98 Mbit/s

95th percentile per-packet one-way delay: 125.876 ms

Loss rate: 0.55%

-- Flow 2:

Average throughput: 56.41 Mbit/s

95th percentile per-packet one-way delay: 127.027 ms

Loss rate: 0.37%

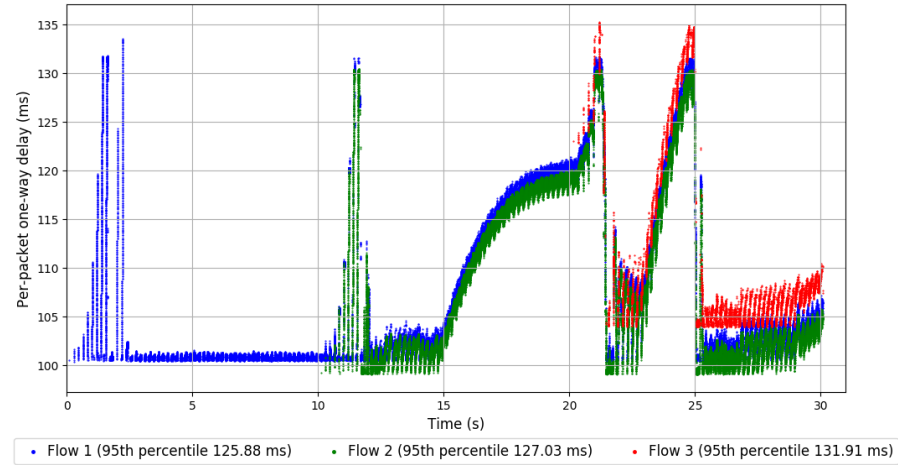
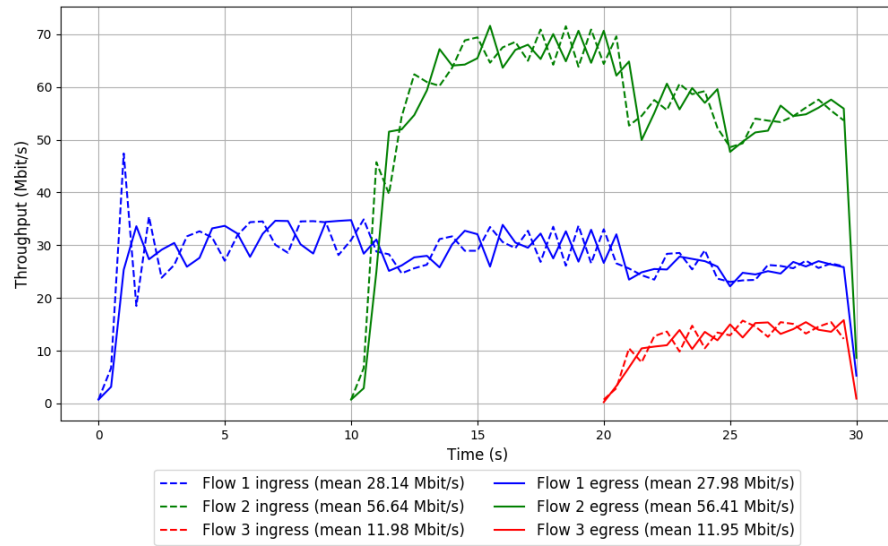
-- Flow 3:

Average throughput: 11.95 Mbit/s

95th percentile per-packet one-way delay: 131.911 ms

Loss rate: 0.43%

Run 3: Report of TCP Cubic — Data Link

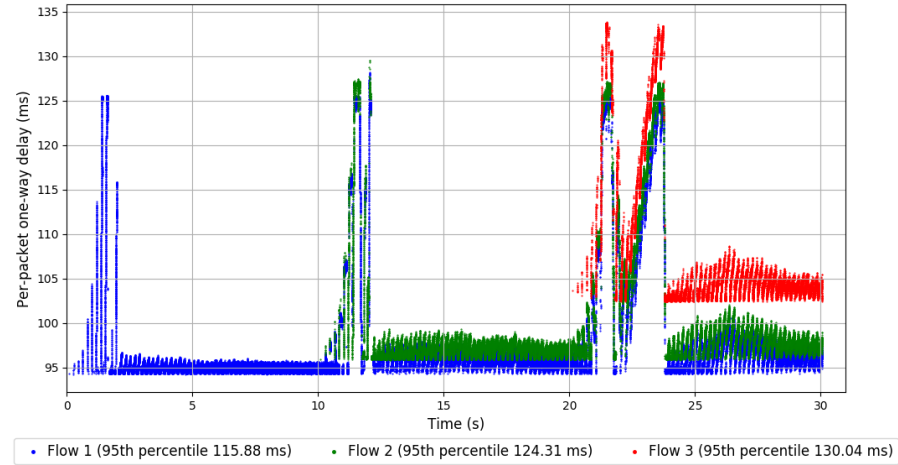
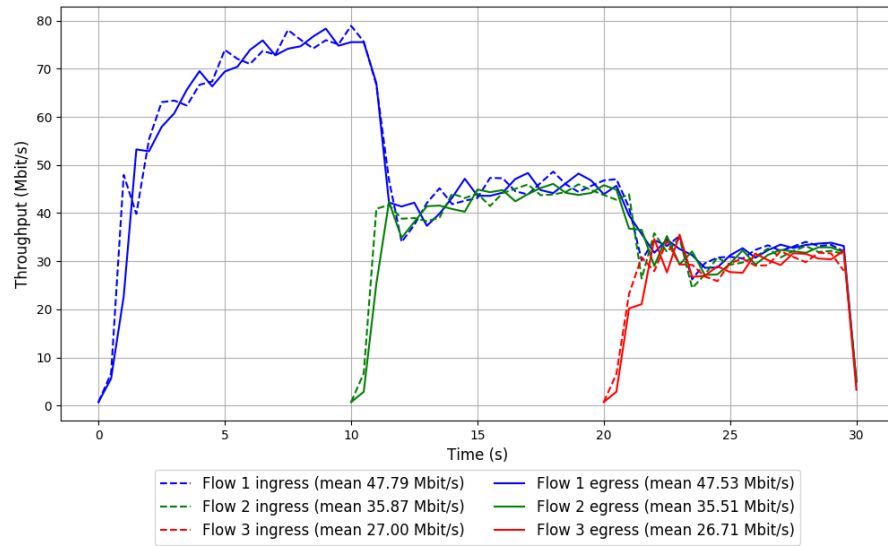


Run 4: Statistics of TCP Cubic

Start at: 2018-04-24 21:53:01
End at: 2018-04-24 21:53:31
Local clock offset: -4.986 ms
Remote clock offset: 4.576 ms

Below is generated by plot.py at 2018-04-25 00:56:12
Datalink statistics
-- Total of 3 flows:
Average throughput: 80.04 Mbit/s
95th percentile per-packet one-way delay: 122.686 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 47.53 Mbit/s
95th percentile per-packet one-way delay: 115.882 ms
Loss rate: 0.53%
-- Flow 2:
Average throughput: 35.51 Mbit/s
95th percentile per-packet one-way delay: 124.309 ms
Loss rate: 0.99%
-- Flow 3:
Average throughput: 26.71 Mbit/s
95th percentile per-packet one-way delay: 130.038 ms
Loss rate: 1.12%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-04-24 22:15:32

End at: 2018-04-24 22:16:02

Local clock offset: -5.174 ms

Remote clock offset: 8.866 ms

Below is generated by plot.py at 2018-04-25 00:56:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 78.65 Mbit/s

95th percentile per-packet one-way delay: 131.305 ms

Loss rate: 0.73%

-- Flow 1:

Average throughput: 46.59 Mbit/s

95th percentile per-packet one-way delay: 126.803 ms

Loss rate: 0.58%

-- Flow 2:

Average throughput: 34.66 Mbit/s

95th percentile per-packet one-way delay: 135.289 ms

Loss rate: 0.84%

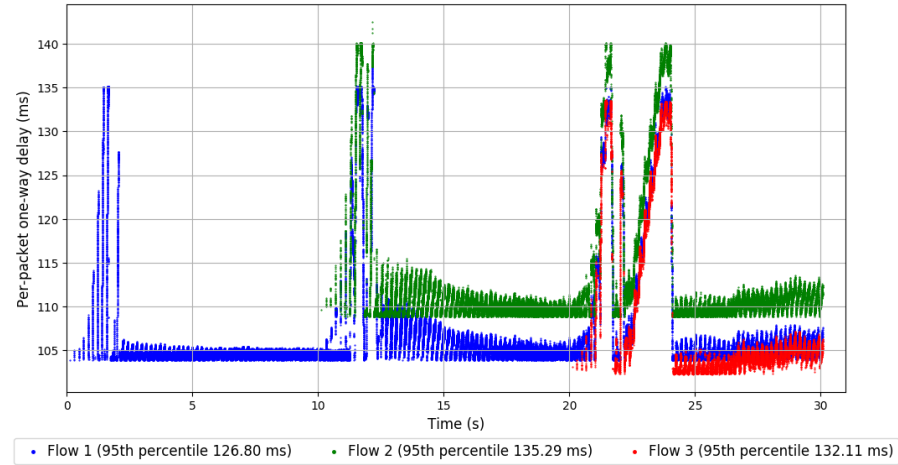
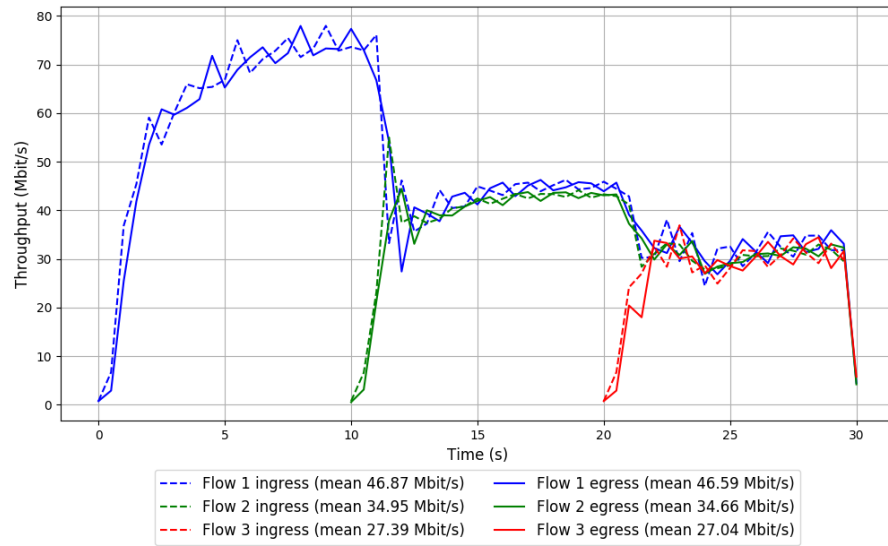
-- Flow 3:

Average throughput: 27.04 Mbit/s

95th percentile per-packet one-way delay: 132.106 ms

Loss rate: 1.22%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-04-24 22:38:04

End at: 2018-04-24 22:38:34

Local clock offset: -6.249 ms

Remote clock offset: 7.91 ms

Below is generated by plot.py at 2018-04-25 00:56:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 71.13 Mbit/s

95th percentile per-packet one-way delay: 135.177 ms

Loss rate: 0.66%

-- Flow 1:

Average throughput: 33.63 Mbit/s

95th percentile per-packet one-way delay: 134.762 ms

Loss rate: 0.71%

-- Flow 2:

Average throughput: 46.22 Mbit/s

95th percentile per-packet one-way delay: 136.135 ms

Loss rate: 0.50%

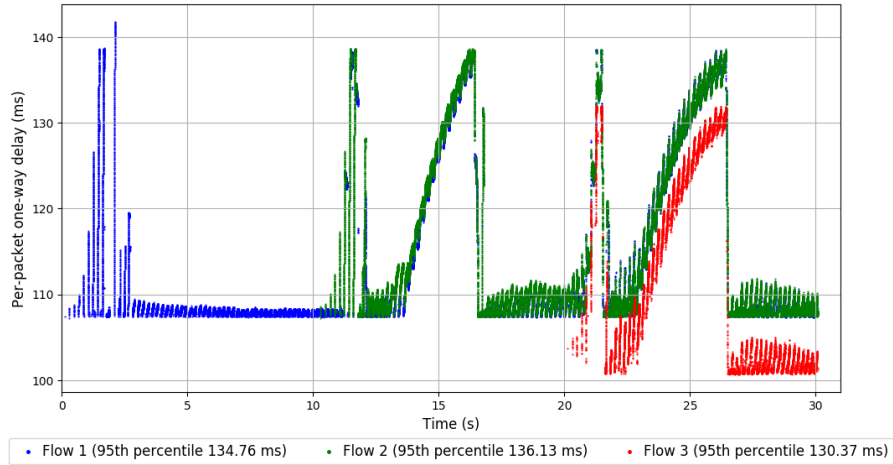
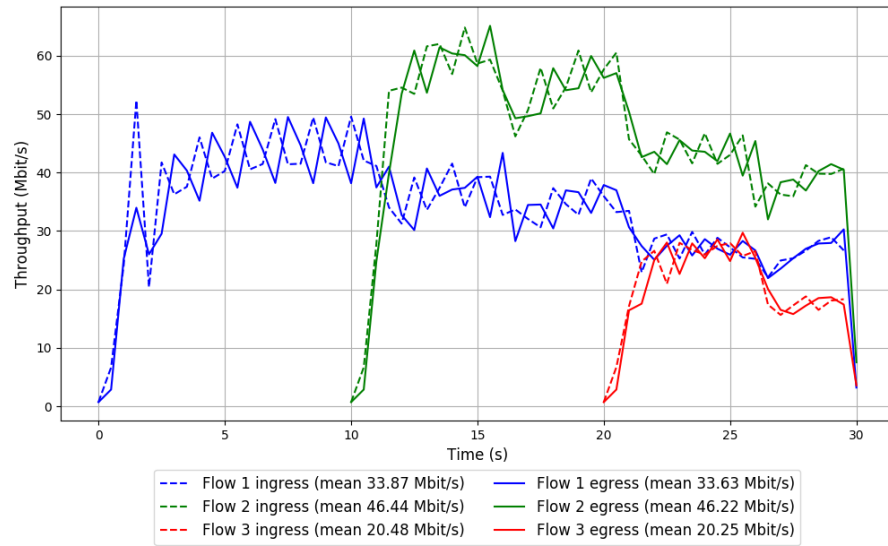
-- Flow 3:

Average throughput: 20.25 Mbit/s

95th percentile per-packet one-way delay: 130.374 ms

Loss rate: 1.11%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-04-24 23:00:37

End at: 2018-04-24 23:01:07

Local clock offset: -5.212 ms

Remote clock offset: 7.687 ms

Below is generated by plot.py at 2018-04-25 00:57:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 76.32 Mbit/s

95th percentile per-packet one-way delay: 124.889 ms

Loss rate: 0.77%

-- Flow 1:

Average throughput: 40.67 Mbit/s

95th percentile per-packet one-way delay: 120.010 ms

Loss rate: 0.46%

-- Flow 2:

Average throughput: 34.15 Mbit/s

95th percentile per-packet one-way delay: 129.245 ms

Loss rate: 0.87%

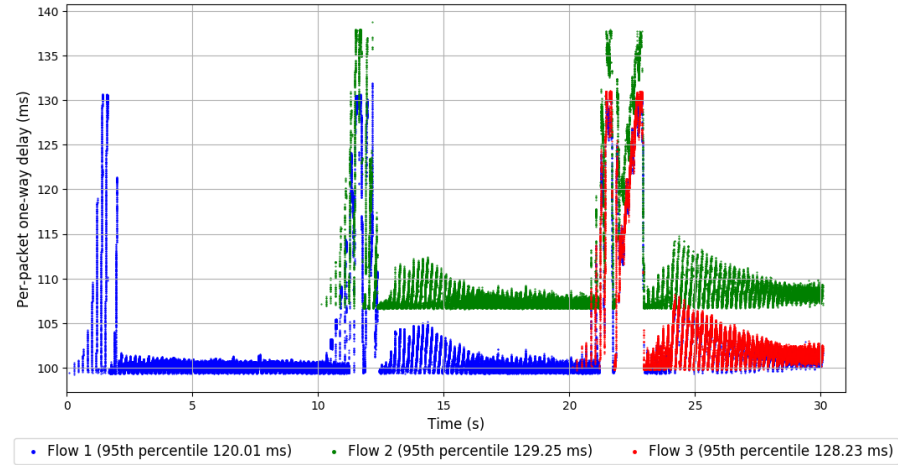
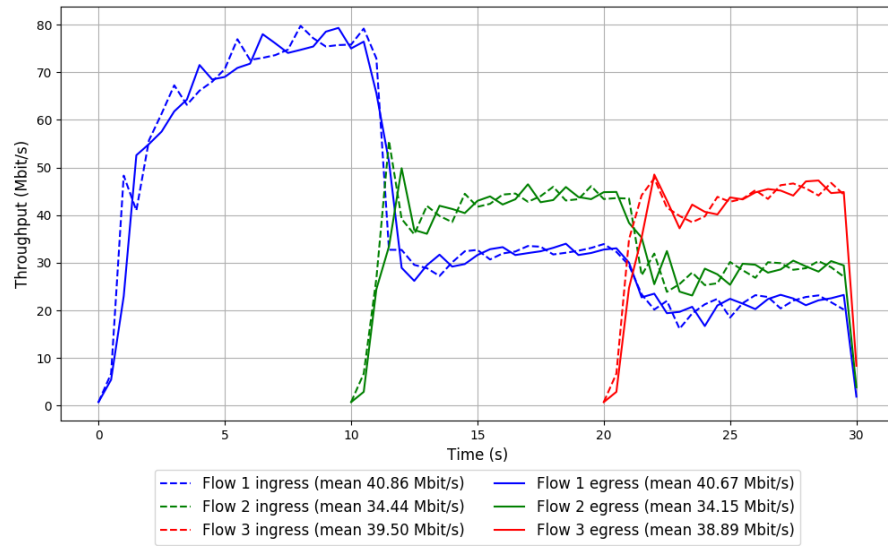
-- Flow 3:

Average throughput: 38.89 Mbit/s

95th percentile per-packet one-way delay: 128.232 ms

Loss rate: 1.54%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-04-24 23:23:16

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

Local clock offset: -5.865 ms

Remote clock offset: 2.457 ms

Below is generated by plot.py at 2018-04-25 00:57:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 83.14 Mbit/s

95th percentile per-packet one-way delay: 123.278 ms

Loss rate: 0.47%

-- Flow 1:

Average throughput: 50.52 Mbit/s

95th percentile per-packet one-way delay: 120.853 ms

Loss rate: 0.34%

-- Flow 2:

Average throughput: 41.14 Mbit/s

95th percentile per-packet one-way delay: 124.605 ms

Loss rate: 0.70%

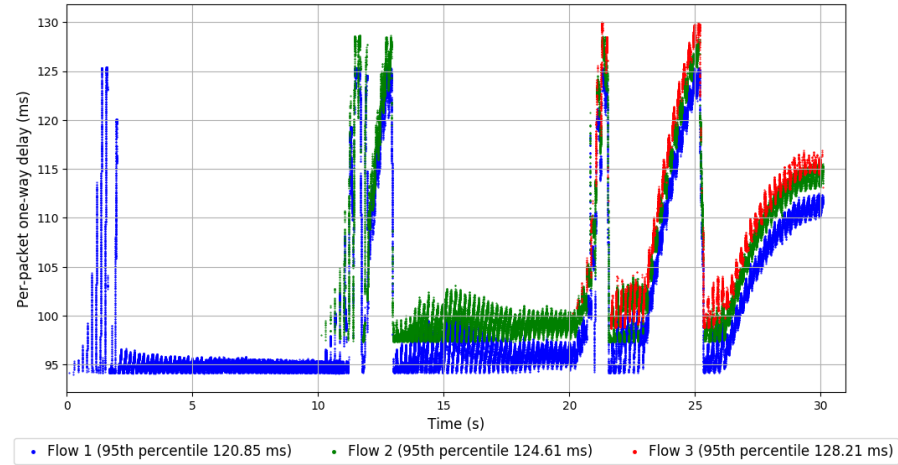
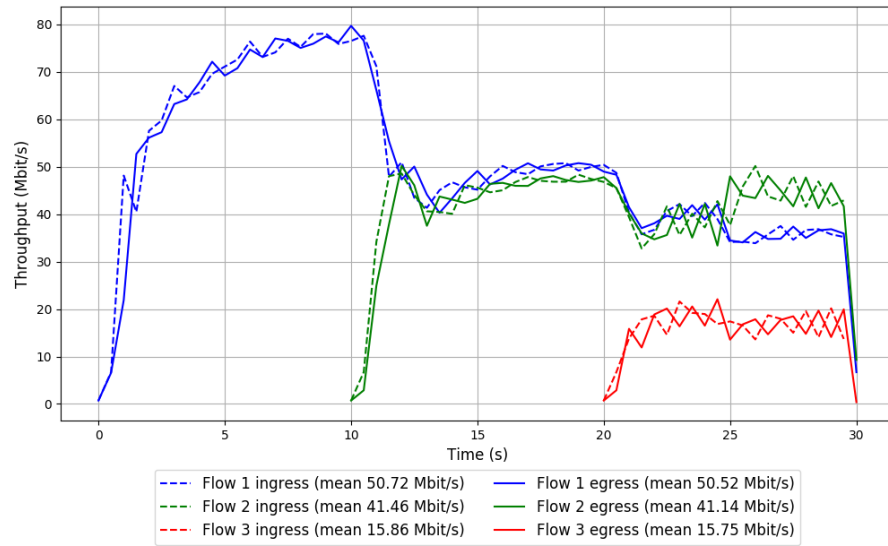
-- Flow 3:

Average throughput: 15.75 Mbit/s

95th percentile per-packet one-way delay: 128.205 ms

Loss rate: 0.58%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-04-24 23:45:30

End at: 2018-04-24 23:46:00

Local clock offset: -4.947 ms

Remote clock offset: 6.02 ms

Below is generated by plot.py at 2018-04-25 00:57:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 70.07 Mbit/s

95th percentile per-packet one-way delay: 125.336 ms

Loss rate: 0.66%

-- Flow 1:

Average throughput: 37.35 Mbit/s

95th percentile per-packet one-way delay: 125.529 ms

Loss rate: 0.63%

-- Flow 2:

Average throughput: 35.47 Mbit/s

95th percentile per-packet one-way delay: 124.317 ms

Loss rate: 0.49%

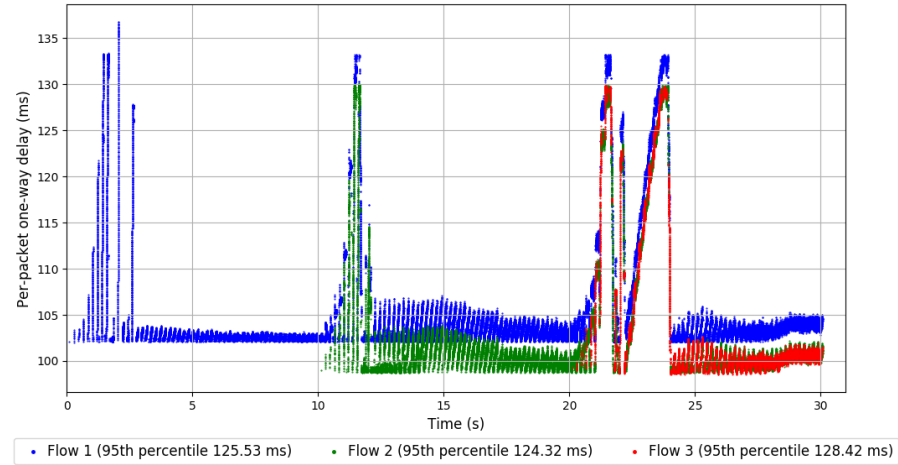
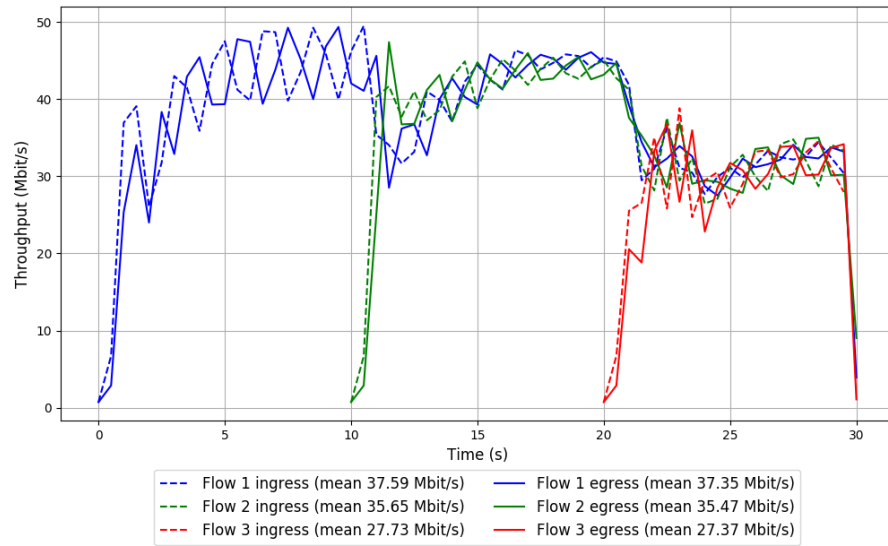
-- Flow 3:

Average throughput: 27.37 Mbit/s

95th percentile per-packet one-way delay: 128.418 ms

Loss rate: 1.26%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-04-25 00:08:07

End at: 2018-04-25 00:08:37

Local clock offset: -5.789 ms

Remote clock offset: 1.905 ms

Below is generated by plot.py at 2018-04-25 00:57:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 57.50 Mbit/s

95th percentile per-packet one-way delay: 125.586 ms

Loss rate: 0.93%

-- Flow 1:

Average throughput: 31.26 Mbit/s

95th percentile per-packet one-way delay: 123.326 ms

Loss rate: 0.60%

-- Flow 2:

Average throughput: 20.53 Mbit/s

95th percentile per-packet one-way delay: 125.979 ms

Loss rate: 1.53%

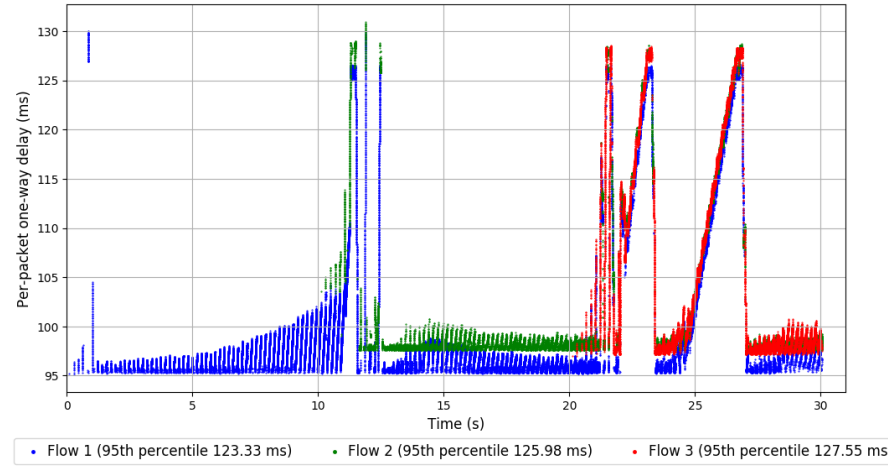
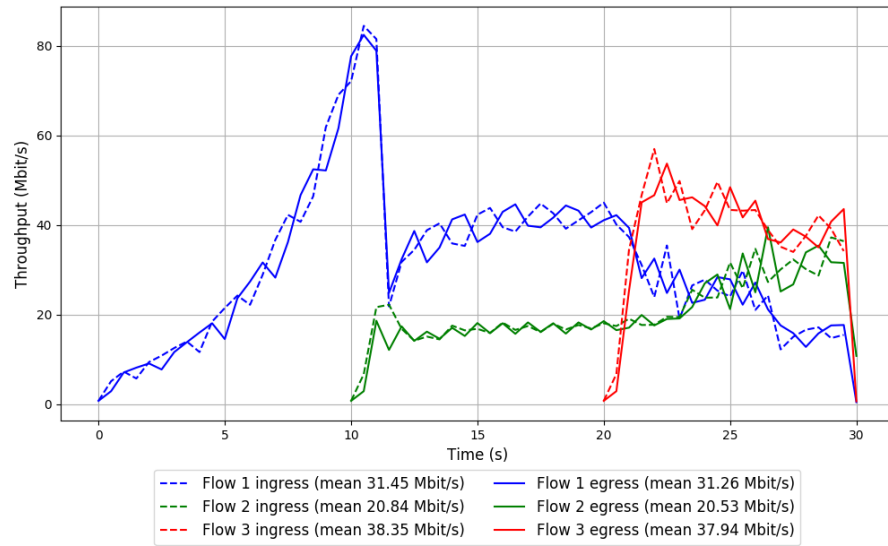
-- Flow 3:

Average throughput: 37.94 Mbit/s

95th percentile per-packet one-way delay: 127.549 ms

Loss rate: 1.06%

Run 10: Report of TCP Cubic — Data Link

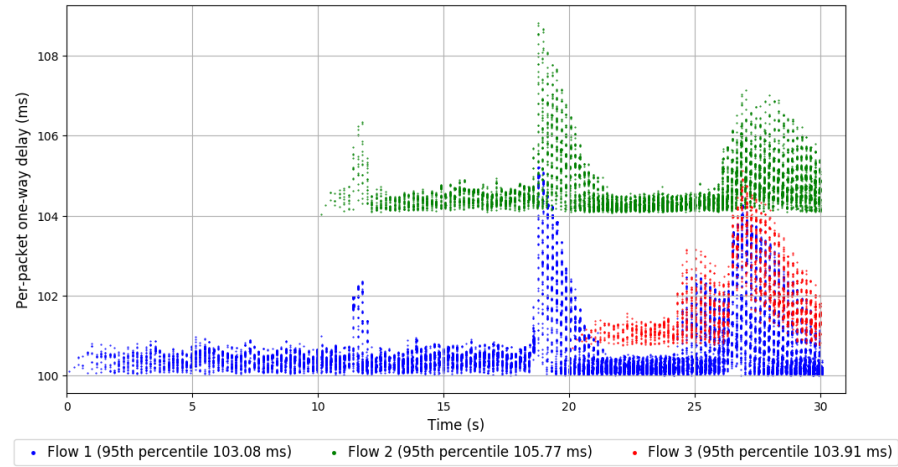
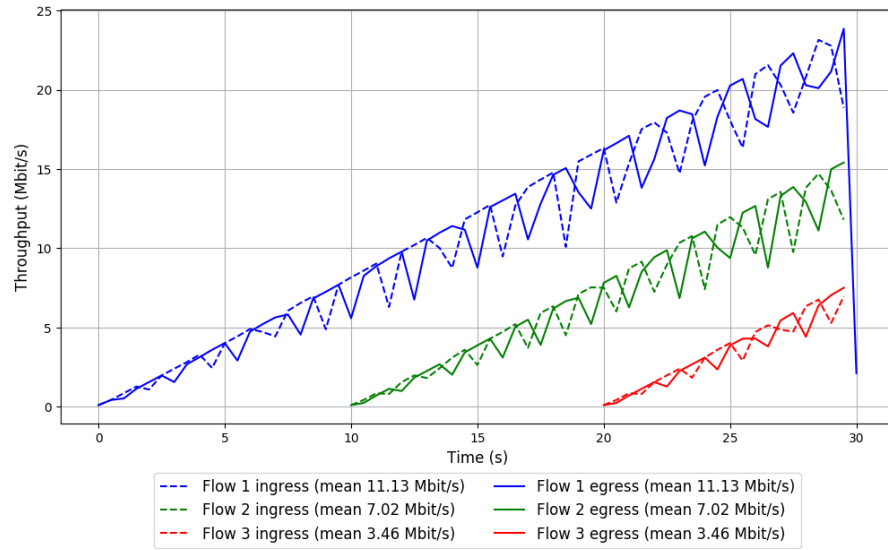



```
Run 1: Statistics of LEDBAT

Start at: 2018-04-24 20:58:20
End at: 2018-04-24 20:58:50
Local clock offset: -3.961 ms
Remote clock offset: 8.379 ms

# Below is generated by plot.py at 2018-04-25 00:57:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 16.93 Mbit/s
95th percentile per-packet one-way delay: 105.028 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 11.13 Mbit/s
95th percentile per-packet one-way delay: 103.079 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 7.02 Mbit/s
95th percentile per-packet one-way delay: 105.768 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 3.46 Mbit/s
95th percentile per-packet one-way delay: 103.906 ms
Loss rate: 0.00%
```

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2018-04-24 21:20:56

End at: 2018-04-24 21:21:26

Local clock offset: -5.691 ms

Remote clock offset: 3.879 ms

Below is generated by plot.py at 2018-04-25 00:57:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 16.99 Mbit/s

95th percentile per-packet one-way delay: 100.161 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 10.90 Mbit/s

95th percentile per-packet one-way delay: 100.359 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 7.44 Mbit/s

95th percentile per-packet one-way delay: 98.614 ms

Loss rate: 0.00%

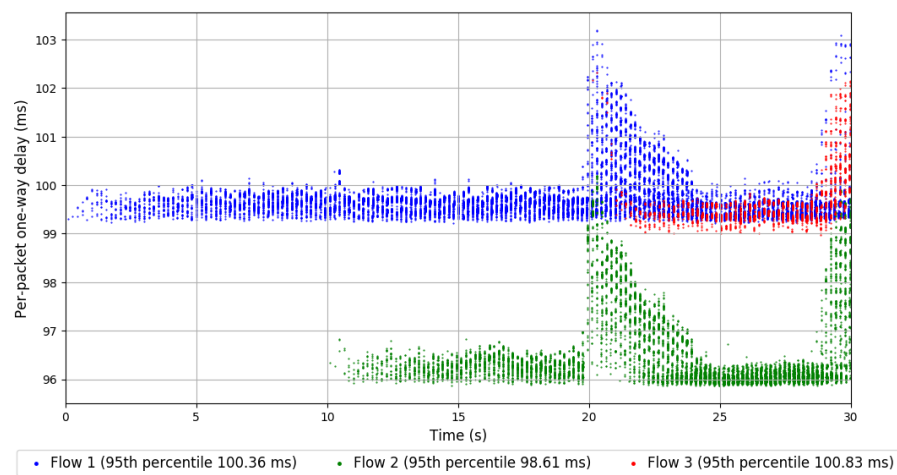
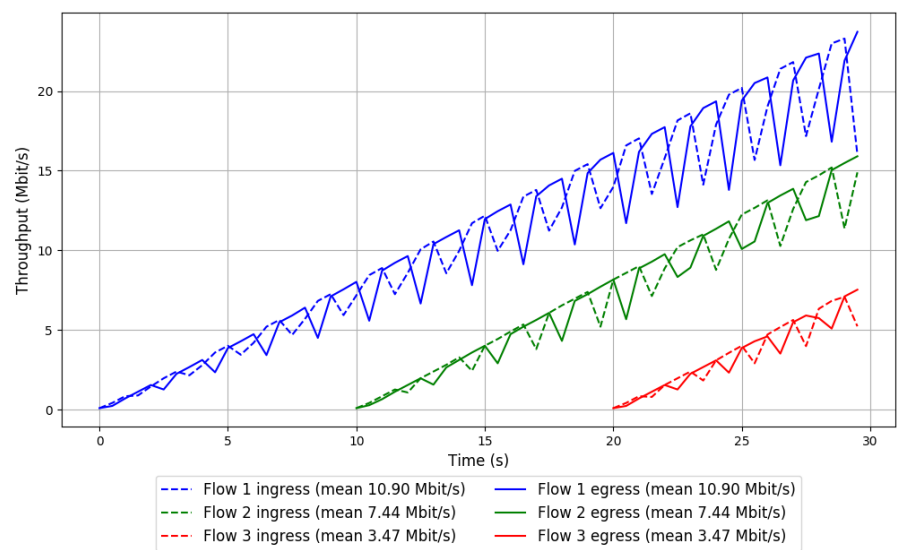
-- Flow 3:

Average throughput: 3.47 Mbit/s

95th percentile per-packet one-way delay: 100.834 ms

Loss rate: 0.00%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-04-24 21:43:32

End at: 2018-04-24 21:44:02

Local clock offset: -4.17 ms

Remote clock offset: 8.344 ms

Below is generated by plot.py at 2018-04-25 00:57:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 16.93 Mbit/s

95th percentile per-packet one-way delay: 105.674 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 10.89 Mbit/s

95th percentile per-packet one-way delay: 104.833 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 7.42 Mbit/s

95th percentile per-packet one-way delay: 103.265 ms

Loss rate: 0.00%

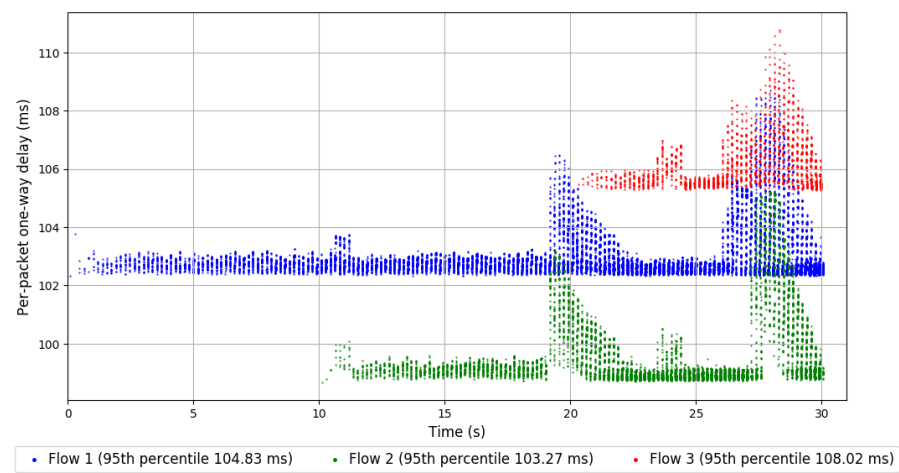
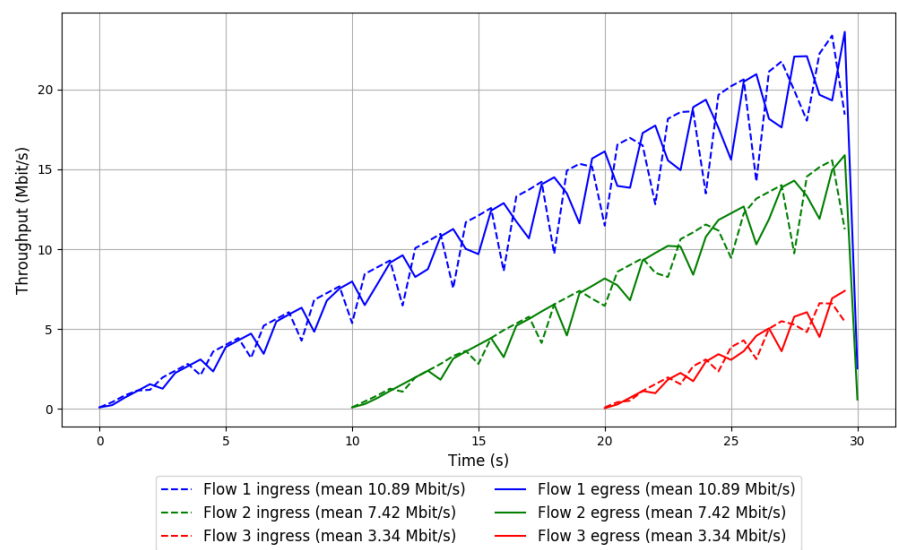
-- Flow 3:

Average throughput: 3.34 Mbit/s

95th percentile per-packet one-way delay: 108.023 ms

Loss rate: 0.00%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-04-24 22:06:01

End at: 2018-04-24 22:06:31

Local clock offset: -4.844 ms

Remote clock offset: 8.118 ms

Below is generated by plot.py at 2018-04-25 00:57:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 16.30 Mbit/s

95th percentile per-packet one-way delay: 108.252 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 10.71 Mbit/s

95th percentile per-packet one-way delay: 106.442 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 6.77 Mbit/s

95th percentile per-packet one-way delay: 109.223 ms

Loss rate: 0.00%

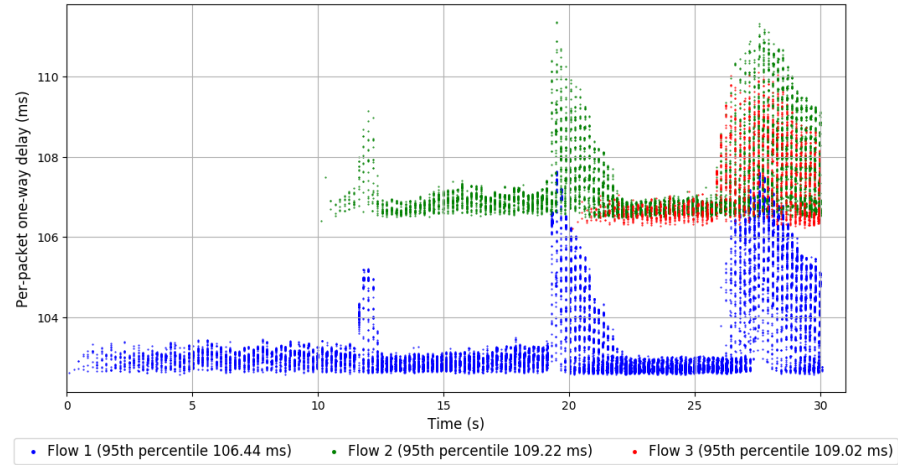
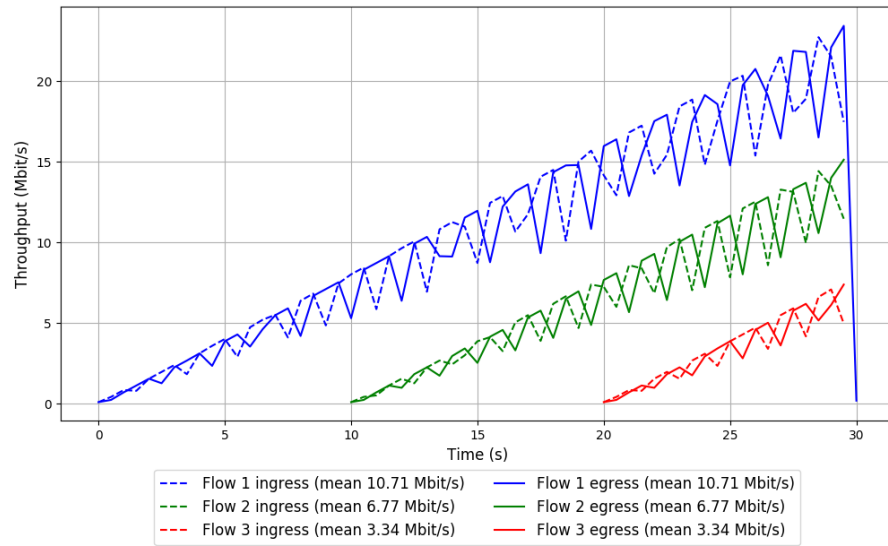
-- Flow 3:

Average throughput: 3.34 Mbit/s

95th percentile per-packet one-way delay: 109.019 ms

Loss rate: 0.00%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-04-24 22:28:35

End at: 2018-04-24 22:29:05

Local clock offset: -5.454 ms

Remote clock offset: 3.343 ms

Below is generated by plot.py at 2018-04-25 00:57:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 16.80 Mbit/s

95th percentile per-packet one-way delay: 98.976 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 10.90 Mbit/s

95th percentile per-packet one-way delay: 97.592 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 7.18 Mbit/s

95th percentile per-packet one-way delay: 97.456 ms

Loss rate: 0.00%

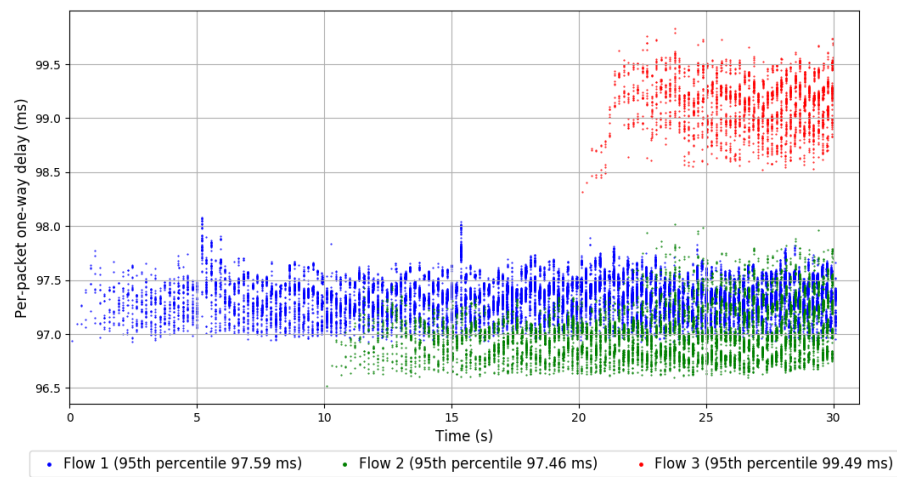
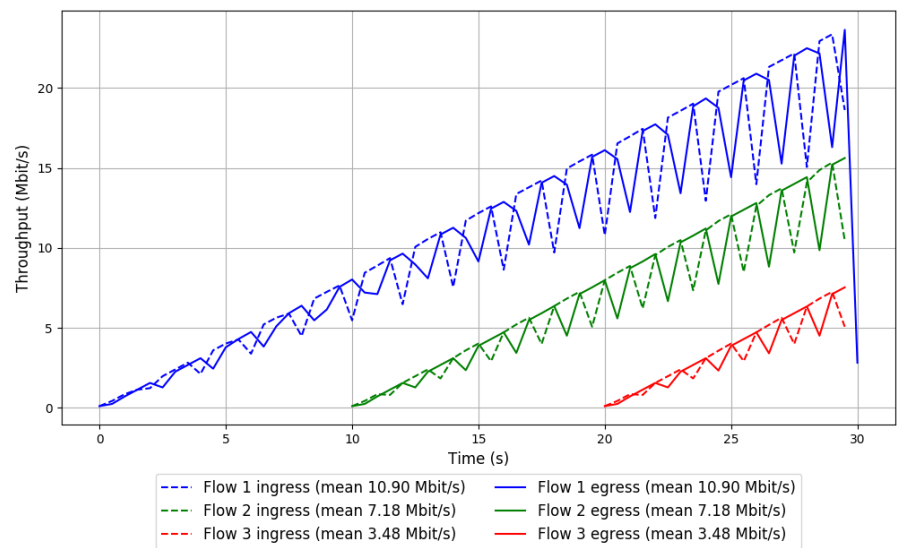
-- Flow 3:

Average throughput: 3.48 Mbit/s

95th percentile per-packet one-way delay: 99.494 ms

Loss rate: 0.00%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-04-24 22:51:05

End at: 2018-04-24 22:51:35

Local clock offset: -6.057 ms

Remote clock offset: 3.909 ms

Below is generated by plot.py at 2018-04-25 00:57:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 16.85 Mbit/s

95th percentile per-packet one-way delay: 105.631 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 11.23 Mbit/s

95th percentile per-packet one-way delay: 100.404 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 6.74 Mbit/s

95th percentile per-packet one-way delay: 106.916 ms

Loss rate: 0.00%

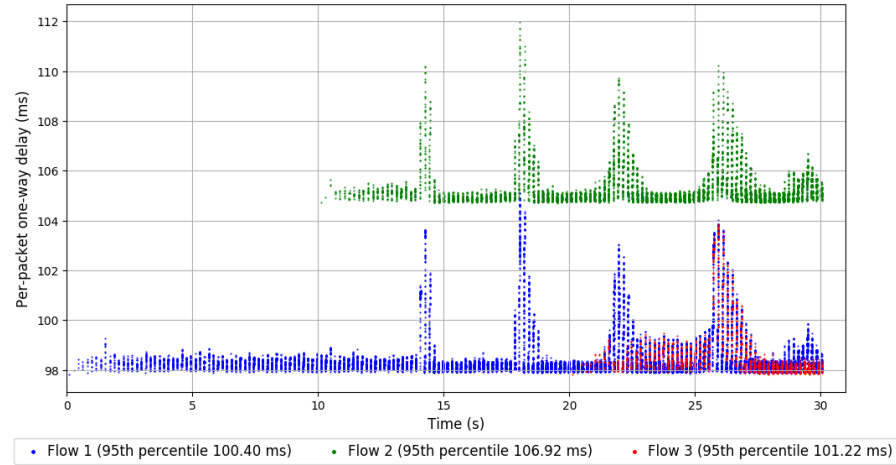
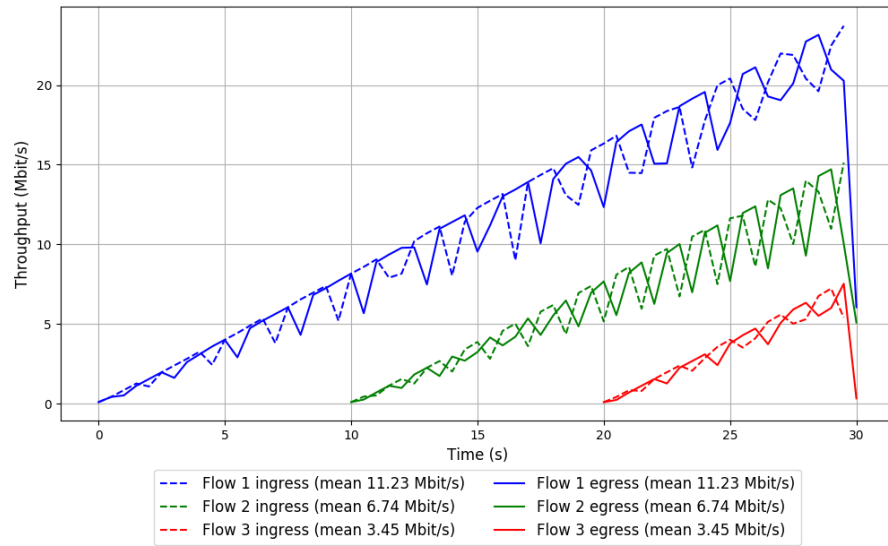
-- Flow 3:

Average throughput: 3.45 Mbit/s

95th percentile per-packet one-way delay: 101.221 ms

Loss rate: 0.00%

Run 6: Report of LEDBAT — Data Link

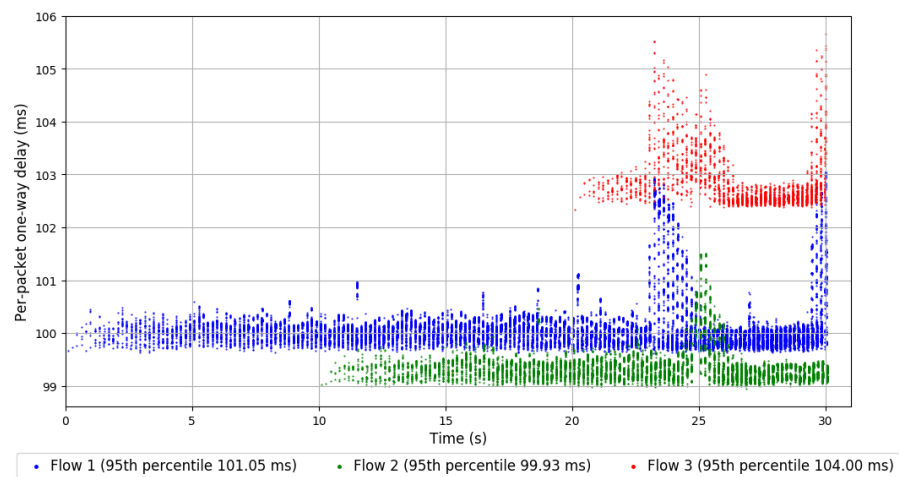
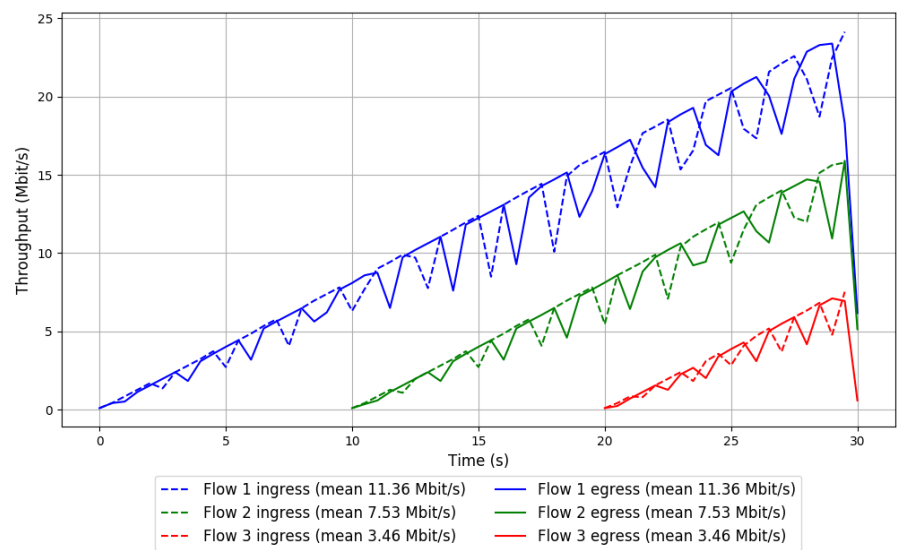


Run 7: Statistics of LEDBAT

Start at: 2018-04-24 23:13:41
End at: 2018-04-24 23:14:11
Local clock offset: -5.864 ms
Remote clock offset: 6.429 ms

Below is generated by plot.py at 2018-04-25 00:57:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 17.50 Mbit/s
95th percentile per-packet one-way delay: 102.565 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 11.36 Mbit/s
95th percentile per-packet one-way delay: 101.054 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 7.53 Mbit/s
95th percentile per-packet one-way delay: 99.931 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 3.46 Mbit/s
95th percentile per-packet one-way delay: 104.002 ms
Loss rate: 0.00%

Run 7: Report of LEDBAT — Data Link

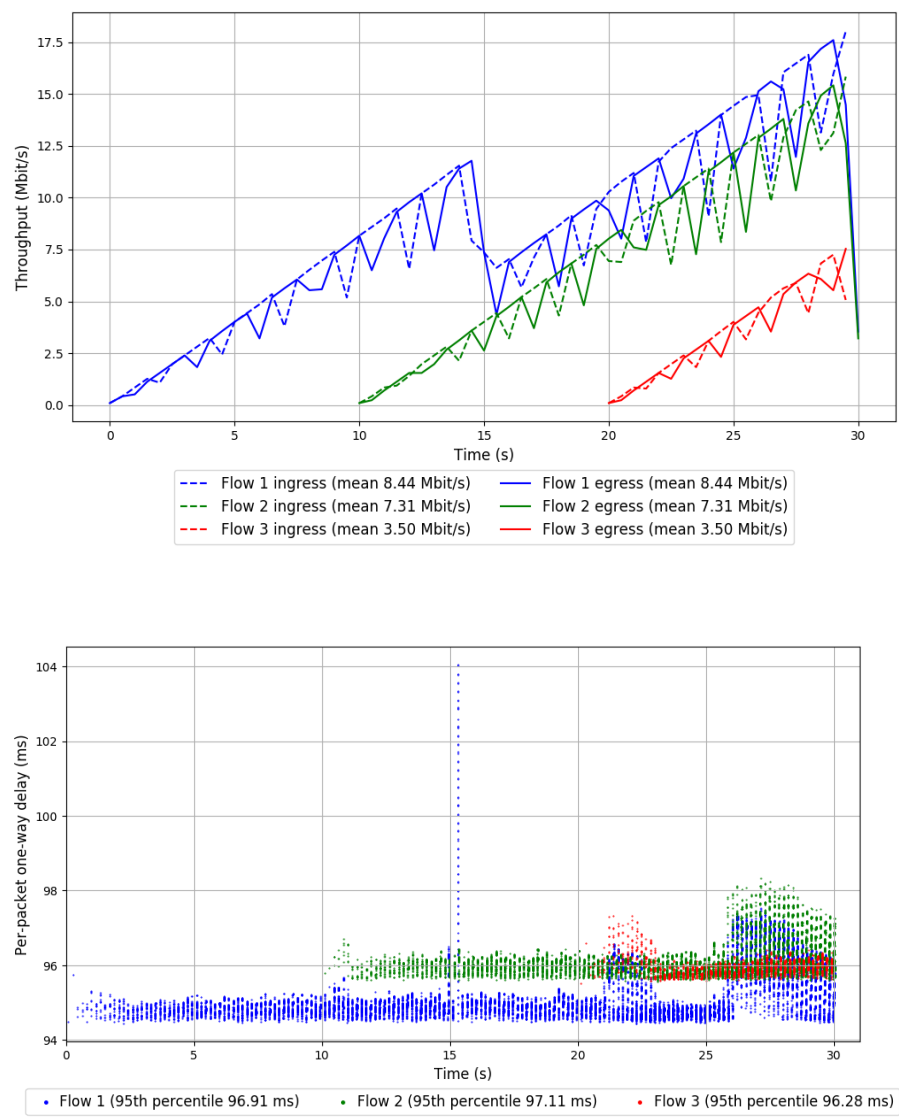


Run 8: Statistics of LEDBAT

Start at: 2018-04-24 23:36:16
End at: 2018-04-24 23:36:46
Local clock offset: -4.252 ms
Remote clock offset: 2.225 ms

Below is generated by plot.py at 2018-04-25 00:57:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 14.44 Mbit/s
95th percentile per-packet one-way delay: 96.952 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 8.44 Mbit/s
95th percentile per-packet one-way delay: 96.906 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 7.31 Mbit/s
95th percentile per-packet one-way delay: 97.105 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 3.50 Mbit/s
95th percentile per-packet one-way delay: 96.278 ms
Loss rate: 0.00%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-04-24 23:58:31

End at: 2018-04-24 23:59:01

Local clock offset: -5.079 ms

Remote clock offset: 2.051 ms

Below is generated by plot.py at 2018-04-25 00:57:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 16.79 Mbit/s

95th percentile per-packet one-way delay: 100.624 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 10.80 Mbit/s

95th percentile per-packet one-way delay: 100.904 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 7.28 Mbit/s

95th percentile per-packet one-way delay: 99.615 ms

Loss rate: 0.00%

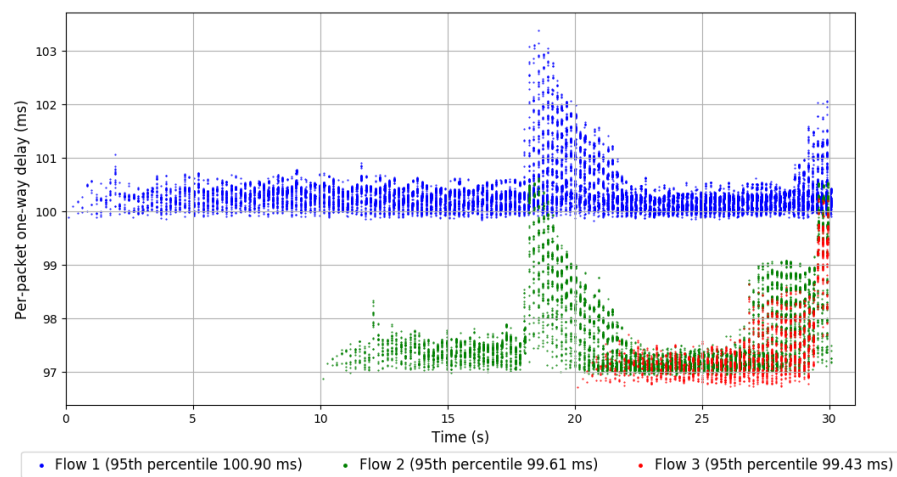
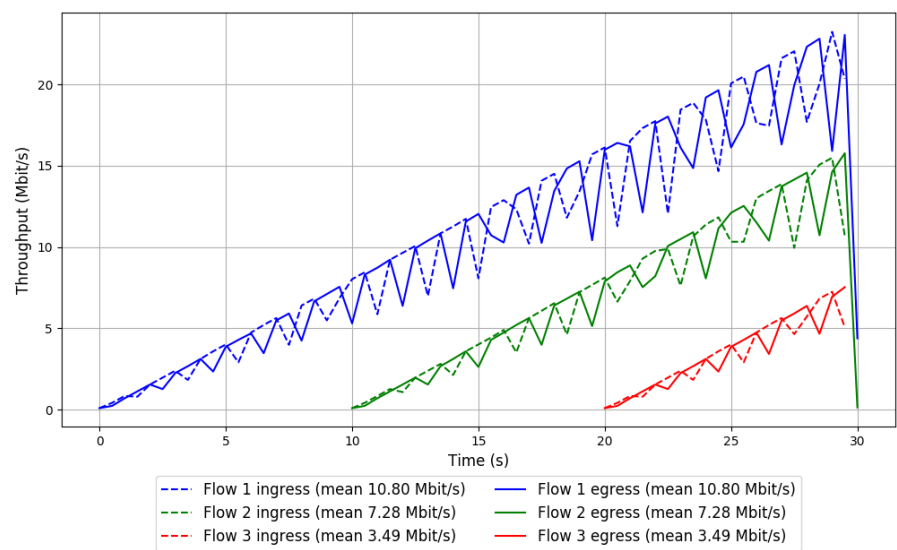
-- Flow 3:

Average throughput: 3.49 Mbit/s

95th percentile per-packet one-way delay: 99.429 ms

Loss rate: 0.00%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-04-25 00:21:07

End at: 2018-04-25 00:21:38

Local clock offset: -4.219 ms

Remote clock offset: 3.151 ms

Below is generated by plot.py at 2018-04-25 00:57:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 16.79 Mbit/s

95th percentile per-packet one-way delay: 100.577 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 10.89 Mbit/s

95th percentile per-packet one-way delay: 97.454 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 7.19 Mbit/s

95th percentile per-packet one-way delay: 97.262 ms

Loss rate: 0.00%

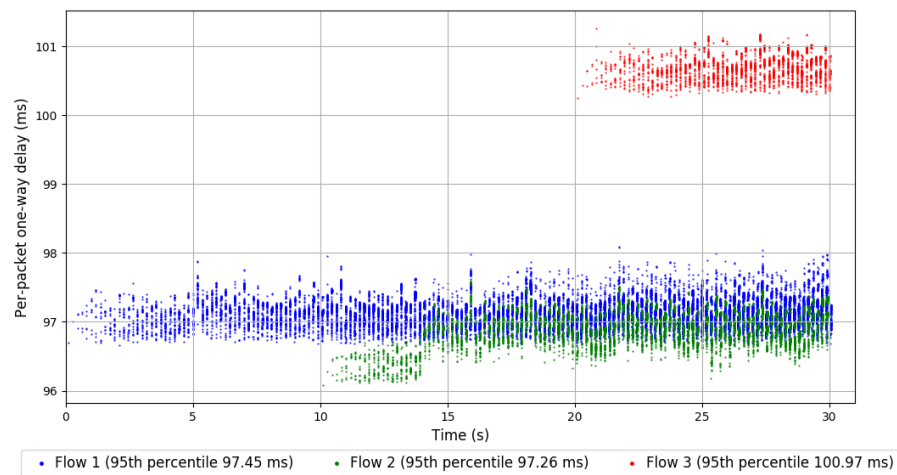
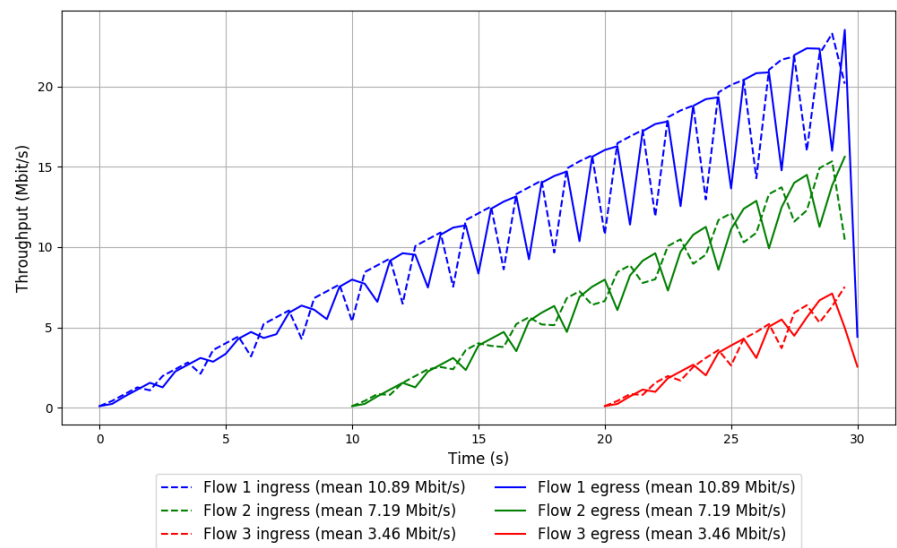
-- Flow 3:

Average throughput: 3.46 Mbit/s

95th percentile per-packet one-way delay: 100.970 ms

Loss rate: 0.00%

Run 10: Report of LEDBAT — Data Link



Run 1: Statistics of PCC-Allegro

Start at: 2018-04-24 20:49:18

End at: 2018-04-24 20:49:48

Local clock offset: -4.794 ms

Remote clock offset: 3.615 ms

Below is generated by plot.py at 2018-04-25 00:58:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.34 Mbit/s

95th percentile per-packet one-way delay: 129.255 ms

Loss rate: 3.53%

-- Flow 1:

Average throughput: 78.92 Mbit/s

95th percentile per-packet one-way delay: 129.238 ms

Loss rate: 3.25%

-- Flow 2:

Average throughput: 7.33 Mbit/s

95th percentile per-packet one-way delay: 127.637 ms

Loss rate: 6.19%

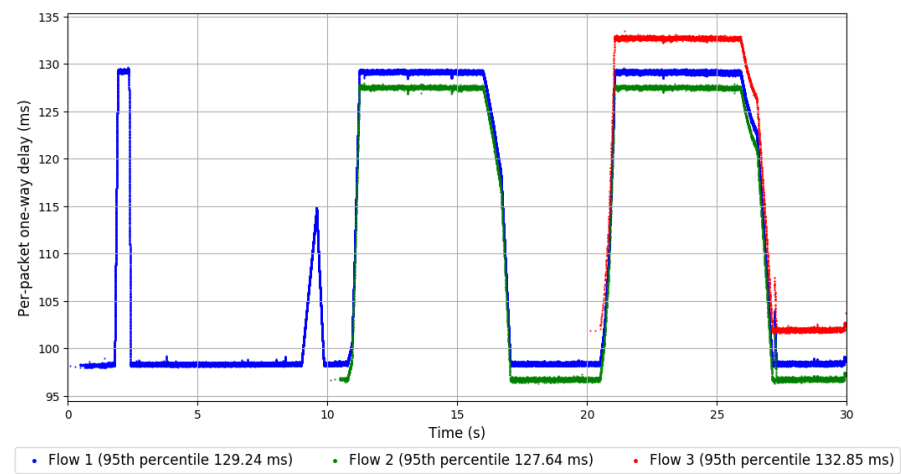
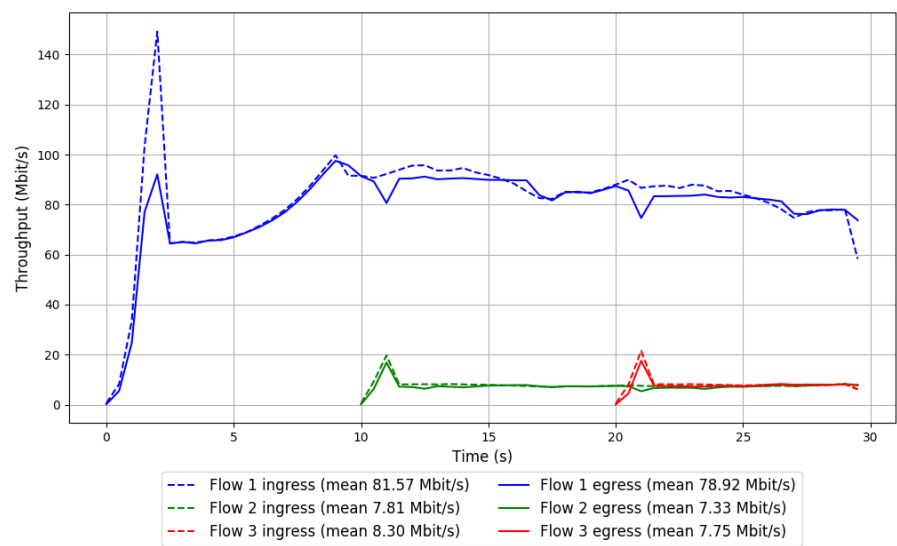
-- Flow 3:

Average throughput: 7.75 Mbit/s

95th percentile per-packet one-way delay: 132.853 ms

Loss rate: 6.67%

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2018-04-24 21:11:54

End at: 2018-04-24 21:12:24

Local clock offset: -4.916 ms

Remote clock offset: 3.88 ms

Below is generated by plot.py at 2018-04-25 00:58:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.42 Mbit/s

95th percentile per-packet one-way delay: 127.489 ms

Loss rate: 3.72%

-- Flow 1:

Average throughput: 78.56 Mbit/s

95th percentile per-packet one-way delay: 127.438 ms

Loss rate: 3.45%

-- Flow 2:

Average throughput: 7.96 Mbit/s

95th percentile per-packet one-way delay: 132.815 ms

Loss rate: 5.83%

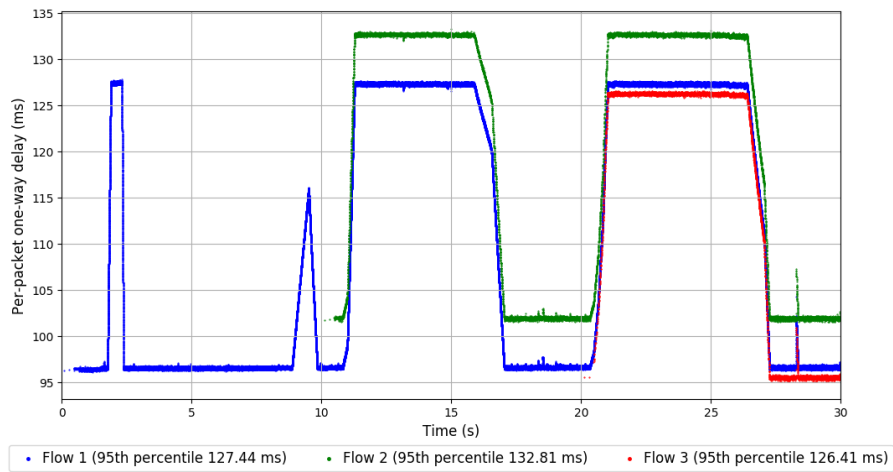
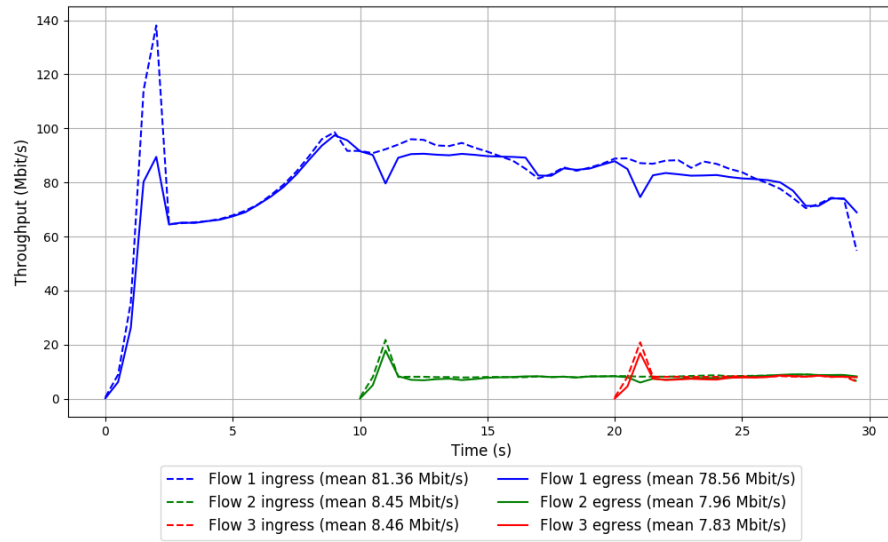
-- Flow 3:

Average throughput: 7.83 Mbit/s

95th percentile per-packet one-way delay: 126.405 ms

Loss rate: 7.45%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2018-04-24 21:34:28

End at: 2018-04-24 21:34:58

Local clock offset: -4.1 ms

Remote clock offset: 3.844 ms

Below is generated by plot.py at 2018-04-25 00:58:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.95 Mbit/s

95th percentile per-packet one-way delay: 126.499 ms

Loss rate: 3.19%

-- Flow 1:

Average throughput: 78.97 Mbit/s

95th percentile per-packet one-way delay: 126.506 ms

Loss rate: 2.96%

-- Flow 2:

Average throughput: 8.20 Mbit/s

95th percentile per-packet one-way delay: 125.084 ms

Loss rate: 4.32%

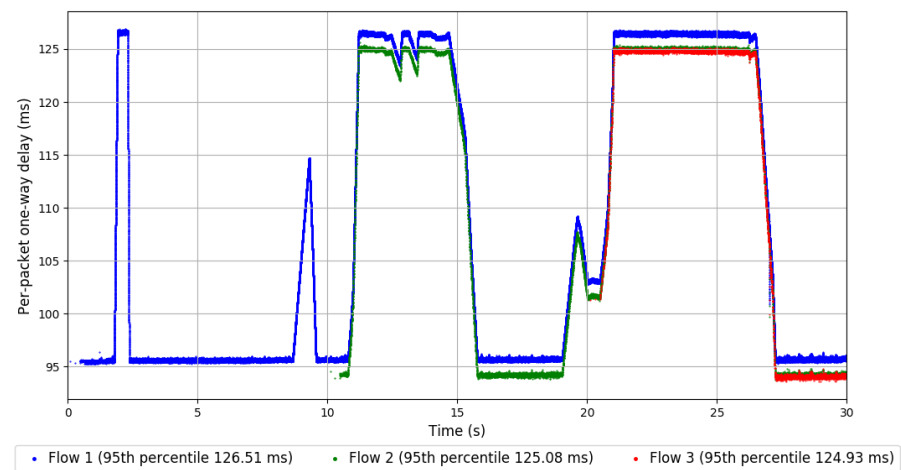
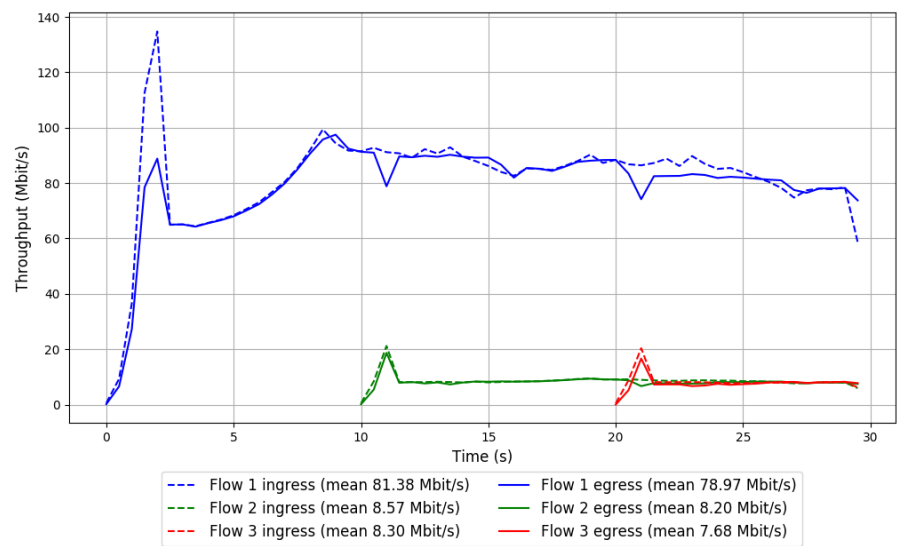
-- Flow 3:

Average throughput: 7.68 Mbit/s

95th percentile per-packet one-way delay: 124.930 ms

Loss rate: 7.60%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2018-04-24 21:57:00

End at: 2018-04-24 21:57:30

Local clock offset: -4.149 ms

Remote clock offset: 8.198 ms

Below is generated by plot.py at 2018-04-25 00:58:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.16 Mbit/s

95th percentile per-packet one-way delay: 131.027 ms

Loss rate: 2.76%

-- Flow 1:

Average throughput: 79.22 Mbit/s

95th percentile per-packet one-way delay: 131.018 ms

Loss rate: 2.68%

-- Flow 2:

Average throughput: 8.43 Mbit/s

95th percentile per-packet one-way delay: 129.560 ms

Loss rate: 3.35%

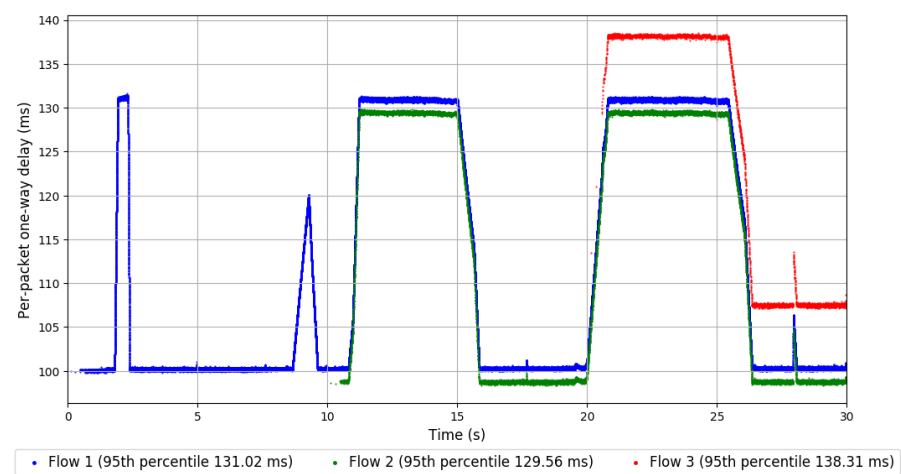
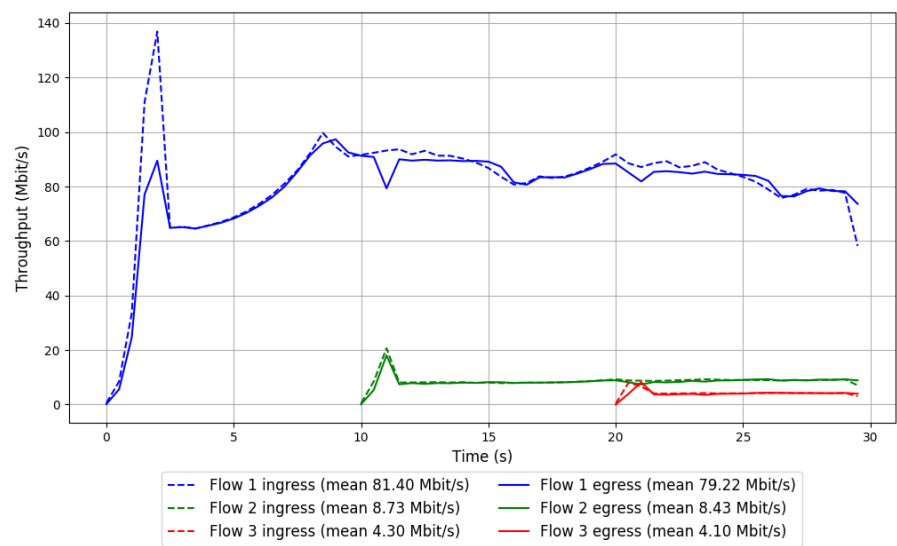
-- Flow 3:

Average throughput: 4.10 Mbit/s

95th percentile per-packet one-way delay: 138.308 ms

Loss rate: 4.79%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2018-04-24 22:19:32

End at: 2018-04-24 22:20:02

Local clock offset: -5.279 ms

Remote clock offset: 7.241 ms

Below is generated by plot.py at 2018-04-25 00:58:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.85 Mbit/s

95th percentile per-packet one-way delay: 135.185 ms

Loss rate: 3.78%

-- Flow 1:

Average throughput: 78.96 Mbit/s

95th percentile per-packet one-way delay: 135.191 ms

Loss rate: 3.49%

-- Flow 2:

Average throughput: 7.82 Mbit/s

95th percentile per-packet one-way delay: 128.288 ms

Loss rate: 6.22%

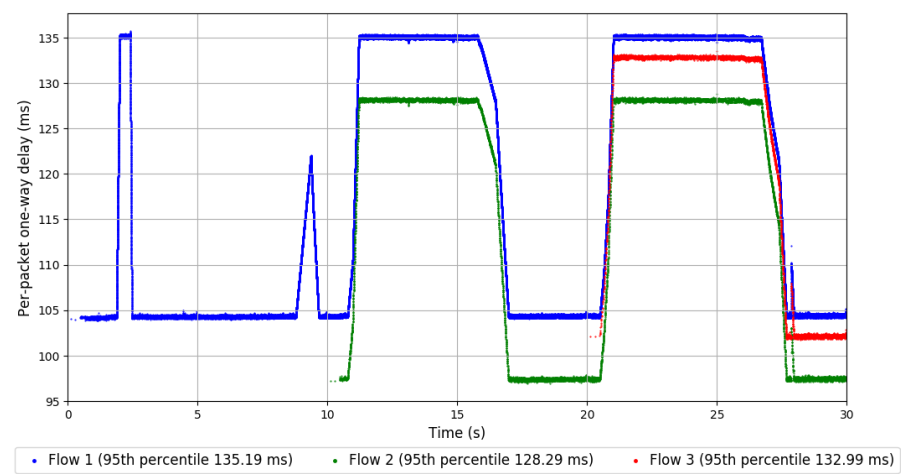
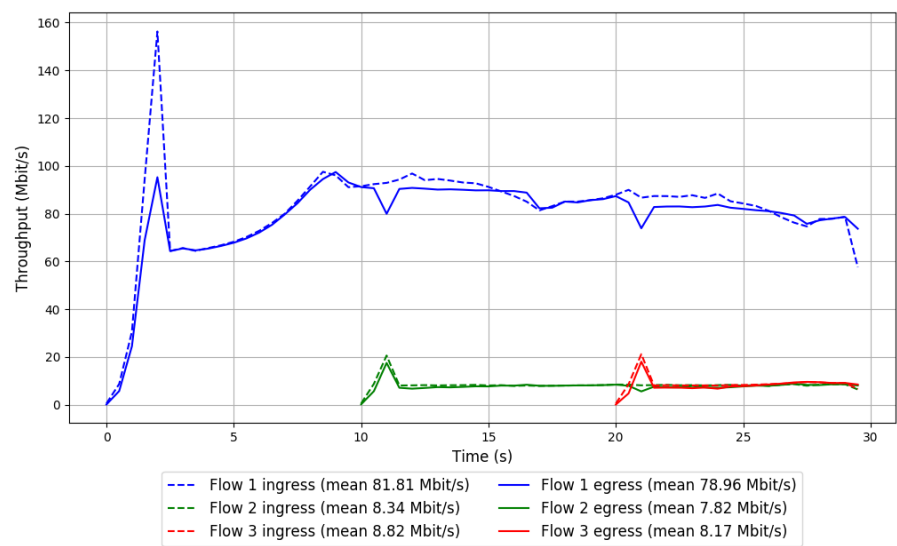
-- Flow 3:

Average throughput: 8.17 Mbit/s

95th percentile per-packet one-way delay: 132.992 ms

Loss rate: 7.39%

Run 5: Report of PCC-Allegro — Data Link



Run 6: Statistics of PCC-Allegro

Start at: 2018-04-24 22:42:03

End at: 2018-04-24 22:42:33

Local clock offset: -5.532 ms

Remote clock offset: 7.866 ms

Below is generated by plot.py at 2018-04-25 00:58:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.96 Mbit/s

95th percentile per-packet one-way delay: 130.603 ms

Loss rate: 3.66%

-- Flow 1:

Average throughput: 78.94 Mbit/s

95th percentile per-packet one-way delay: 130.585 ms

Loss rate: 3.42%

-- Flow 2:

Average throughput: 8.54 Mbit/s

95th percentile per-packet one-way delay: 130.511 ms

Loss rate: 5.30%

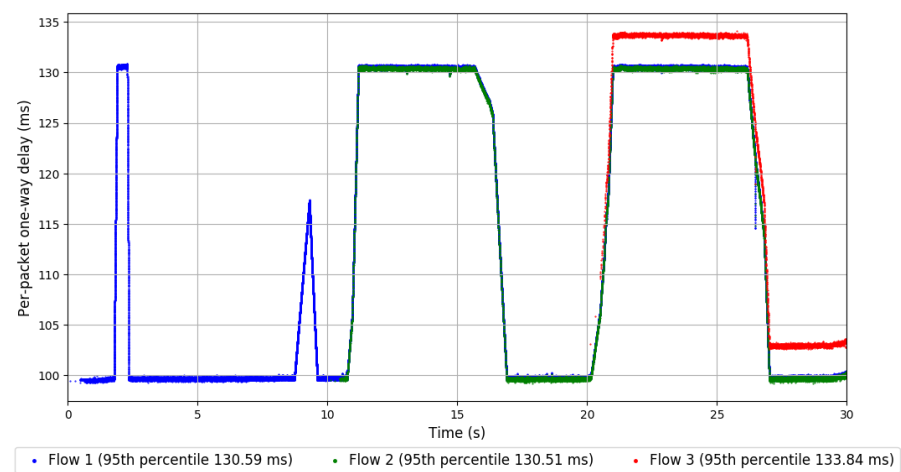
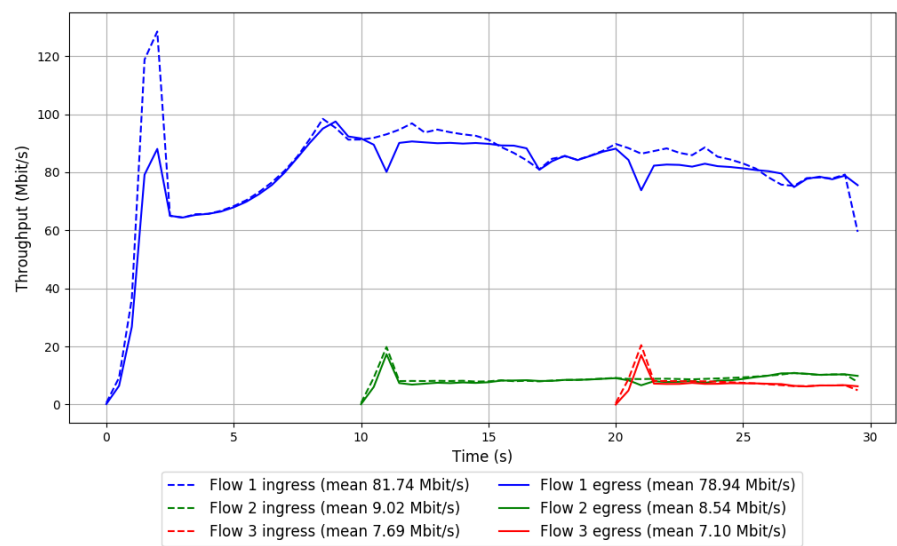
-- Flow 3:

Average throughput: 7.10 Mbit/s

95th percentile per-packet one-way delay: 133.836 ms

Loss rate: 7.60%

Run 6: Report of PCC-Allegro — Data Link



Run 7: Statistics of PCC-Allegro

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

End at: 2018-04-24 23:05:06

Local clock offset: -5.924 ms

Remote clock offset: 3.746 ms

Below is generated by plot.py at 2018-04-25 00:58:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.49 Mbit/s

95th percentile per-packet one-way delay: 134.449 ms

Loss rate: 2.85%

-- Flow 1:

Average throughput: 78.02 Mbit/s

95th percentile per-packet one-way delay: 134.457 ms

Loss rate: 2.68%

-- Flow 2:

Average throughput: 9.02 Mbit/s

95th percentile per-packet one-way delay: 134.360 ms

Loss rate: 3.39%

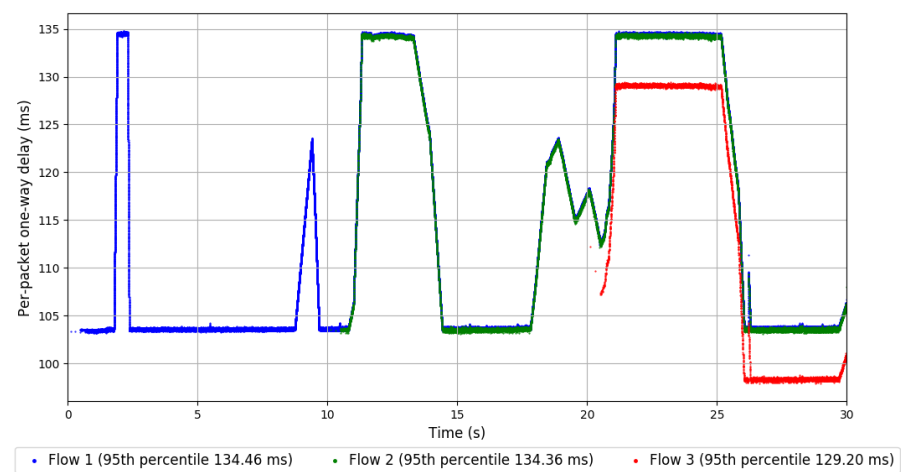
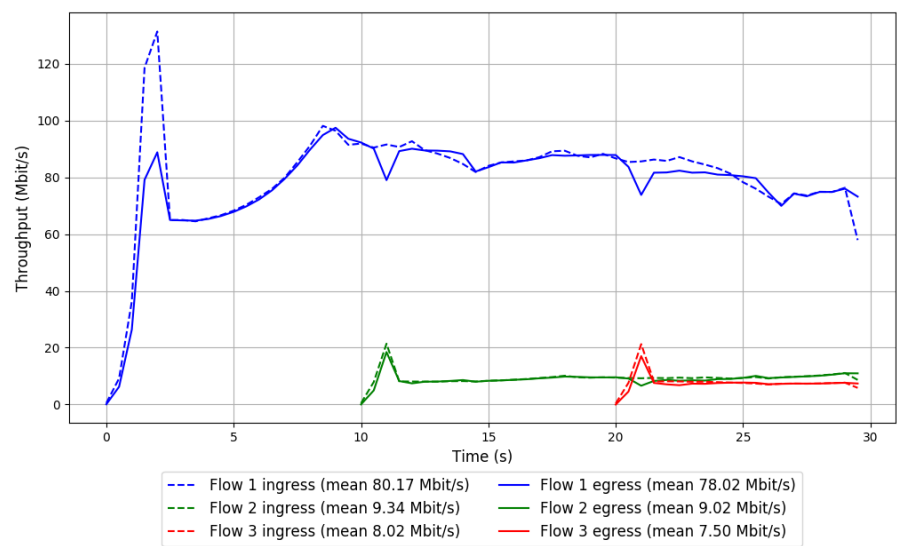
-- Flow 3:

Average throughput: 7.50 Mbit/s

95th percentile per-packet one-way delay: 129.204 ms

Loss rate: 6.56%

Run 7: Report of PCC-Allegro — Data Link



Run 8: Statistics of PCC-Allegro

Start at: 2018-04-24 23:27:15

End at: 2018-04-24 23:27:45

Local clock offset: -4.29 ms

Remote clock offset: 3.262 ms

Below is generated by plot.py at 2018-04-25 00:58:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.60 Mbit/s

95th percentile per-packet one-way delay: 129.386 ms

Loss rate: 3.15%

-- Flow 1:

Average throughput: 78.65 Mbit/s

95th percentile per-packet one-way delay: 129.377 ms

Loss rate: 2.89%

-- Flow 2:

Average throughput: 8.08 Mbit/s

95th percentile per-packet one-way delay: 128.987 ms

Loss rate: 4.24%

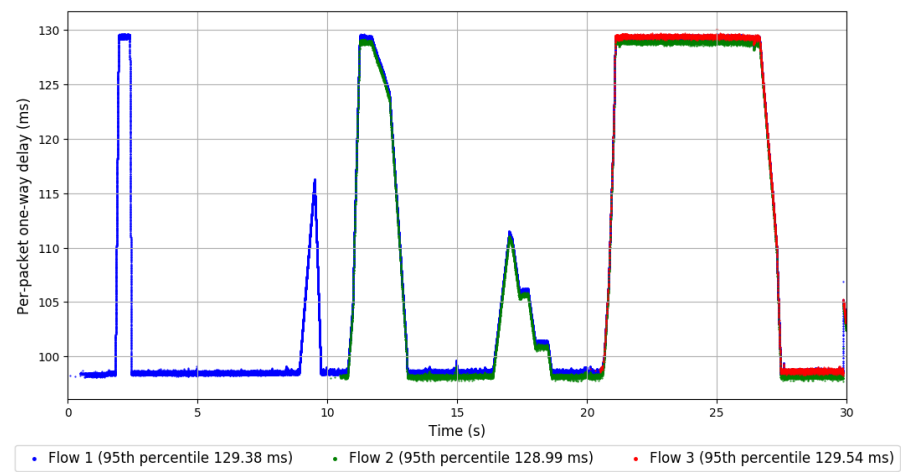
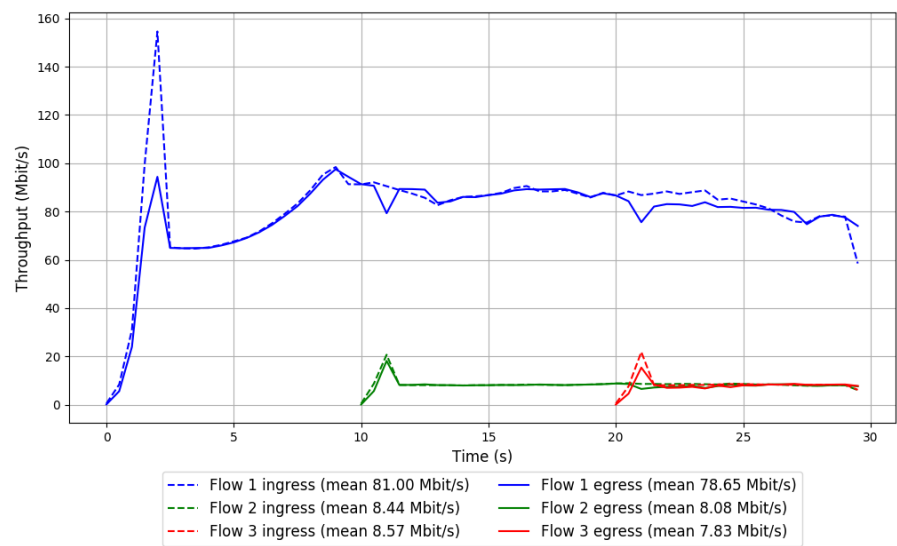
-- Flow 3:

Average throughput: 7.83 Mbit/s

95th percentile per-packet one-way delay: 129.541 ms

Loss rate: 8.62%

Run 8: Report of PCC-Allegro — Data Link



Run 9: Statistics of PCC-Allegro

Start at: 2018-04-24 23:49:29

End at: 2018-04-24 23:49:59

Local clock offset: -4.981 ms

Remote clock offset: 7.584 ms

Below is generated by plot.py at 2018-04-25 00:59:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.87 Mbit/s

95th percentile per-packet one-way delay: 131.227 ms

Loss rate: 2.42%

-- Flow 1:

Average throughput: 78.79 Mbit/s

95th percentile per-packet one-way delay: 131.212 ms

Loss rate: 2.38%

-- Flow 2:

Average throughput: 8.06 Mbit/s

95th percentile per-packet one-way delay: 131.223 ms

Loss rate: 2.53%

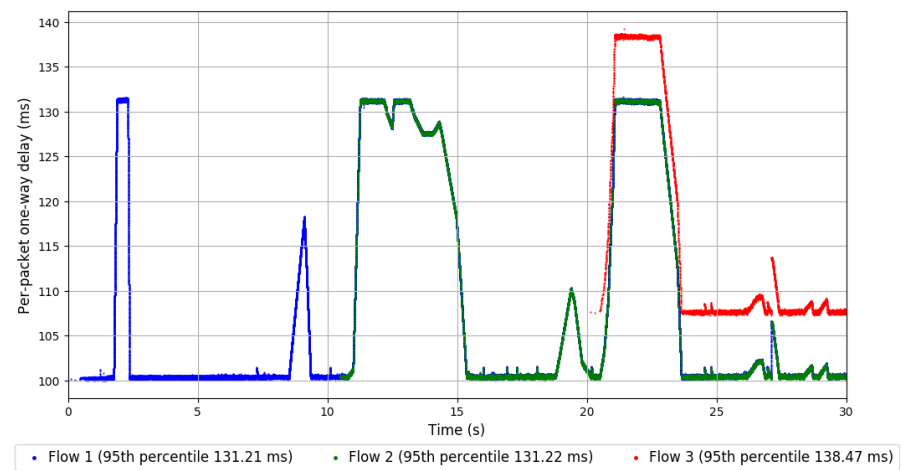
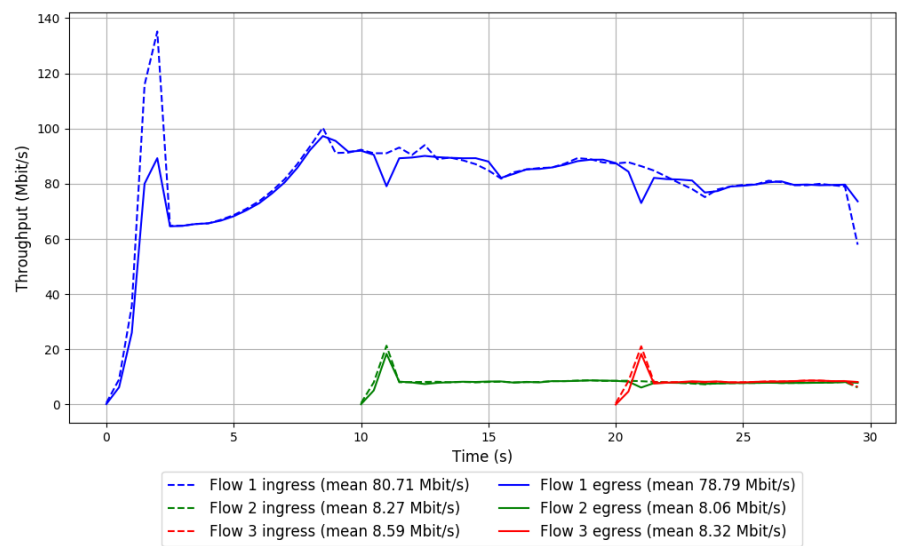
-- Flow 3:

Average throughput: 8.32 Mbit/s

95th percentile per-packet one-way delay: 138.466 ms

Loss rate: 3.25%

Run 9: Report of PCC-Allegro — Data Link



Run 10: Statistics of PCC-Allegro

Start at: 2018-04-25 00:12:06

End at: 2018-04-25 00:12:36

Local clock offset: -5.824 ms

Remote clock offset: 6.706 ms

Below is generated by plot.py at 2018-04-25 00:59:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.61 Mbit/s

95th percentile per-packet one-way delay: 137.965 ms

Loss rate: 3.71%

-- Flow 1:

Average throughput: 79.03 Mbit/s

95th percentile per-packet one-way delay: 137.971 ms

Loss rate: 3.44%

-- Flow 2:

Average throughput: 7.40 Mbit/s

95th percentile per-packet one-way delay: 132.727 ms

Loss rate: 6.29%

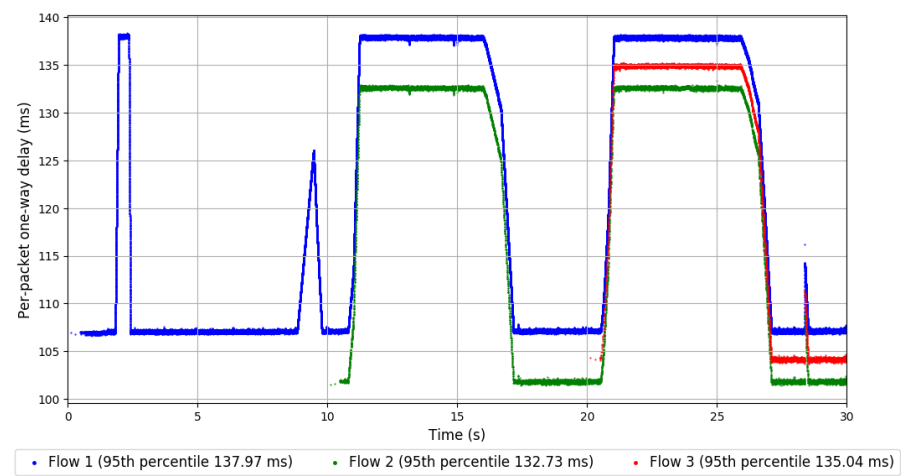
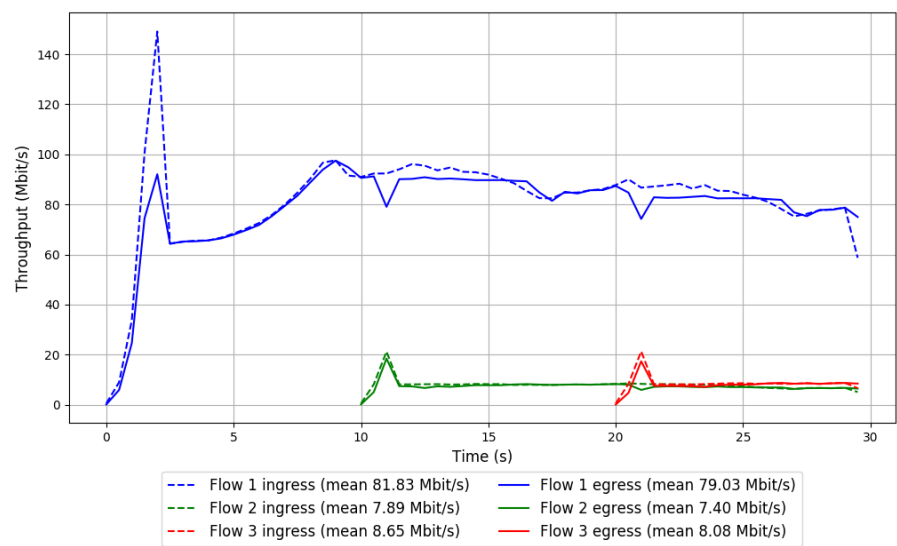
-- Flow 3:

Average throughput: 8.08 Mbit/s

95th percentile per-packet one-way delay: 135.041 ms

Loss rate: 6.63%

Run 10: Report of PCC-Allegro — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2018-04-24 20:48:00

End at: 2018-04-24 20:48:30

Local clock offset: -5.548 ms

Remote clock offset: 3.611 ms

Below is generated by plot.py at 2018-04-25 00:59:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 64.89 Mbit/s

95th percentile per-packet one-way delay: 130.652 ms

Loss rate: 1.67%

-- Flow 1:

Average throughput: 40.14 Mbit/s

95th percentile per-packet one-way delay: 130.903 ms

Loss rate: 1.19%

-- Flow 2:

Average throughput: 30.55 Mbit/s

95th percentile per-packet one-way delay: 124.212 ms

Loss rate: 2.01%

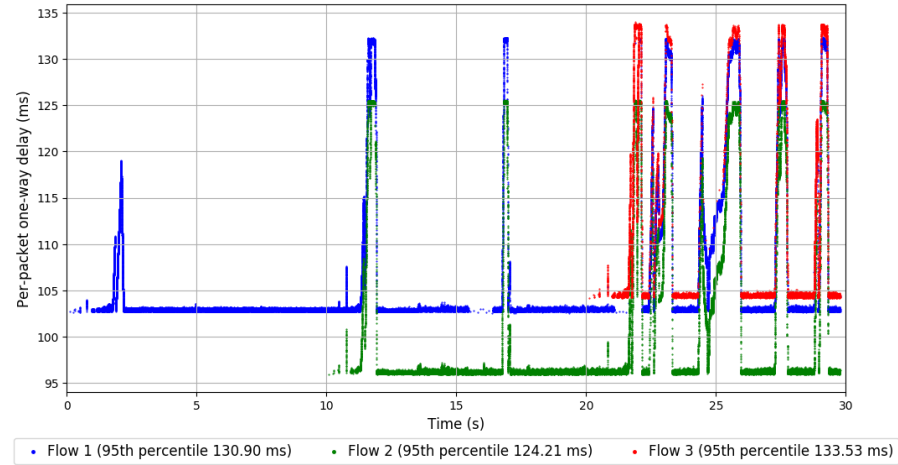
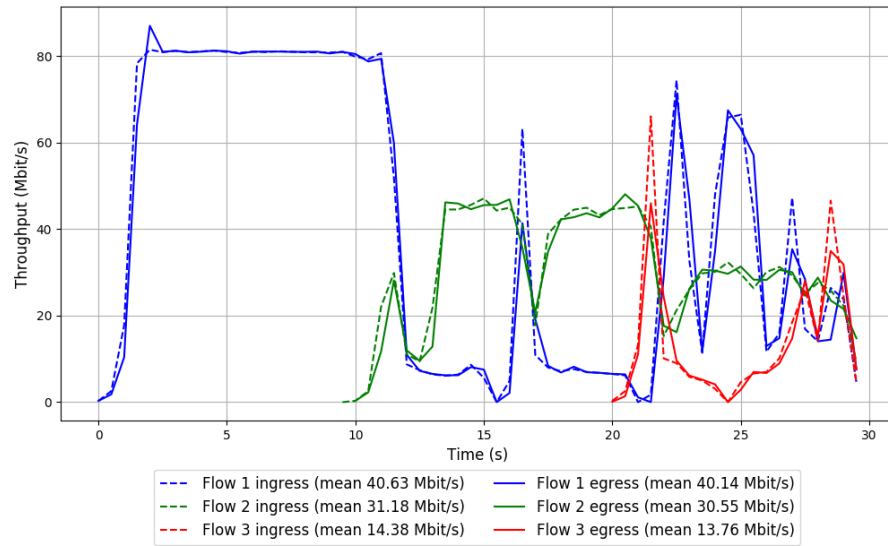
-- Flow 3:

Average throughput: 13.76 Mbit/s

95th percentile per-packet one-way delay: 133.528 ms

Loss rate: 4.36%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-04-24 21:10:36

End at: 2018-04-24 21:11:06

Local clock offset: -5.637 ms

Remote clock offset: 4.673 ms

Below is generated by plot.py at 2018-04-25 00:59:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 60.89 Mbit/s

95th percentile per-packet one-way delay: 125.657 ms

Loss rate: 2.44%

-- Flow 1:

Average throughput: 36.37 Mbit/s

95th percentile per-packet one-way delay: 124.168 ms

Loss rate: 1.61%

-- Flow 2:

Average throughput: 31.63 Mbit/s

95th percentile per-packet one-way delay: 125.695 ms

Loss rate: 2.21%

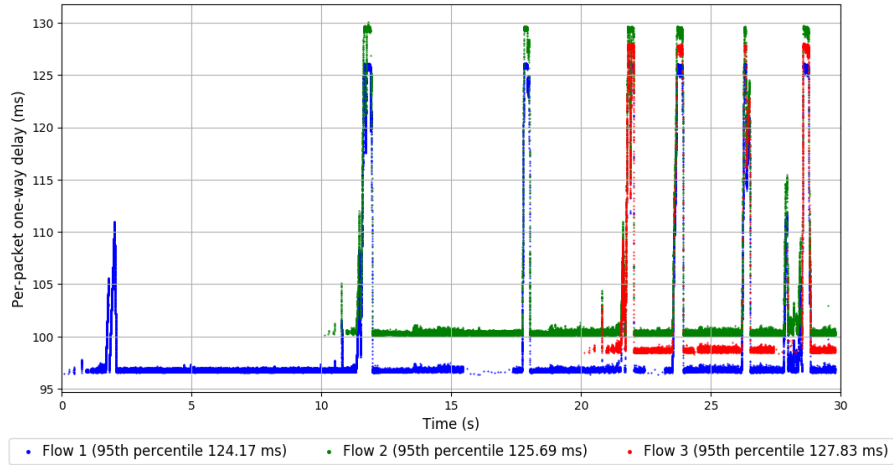
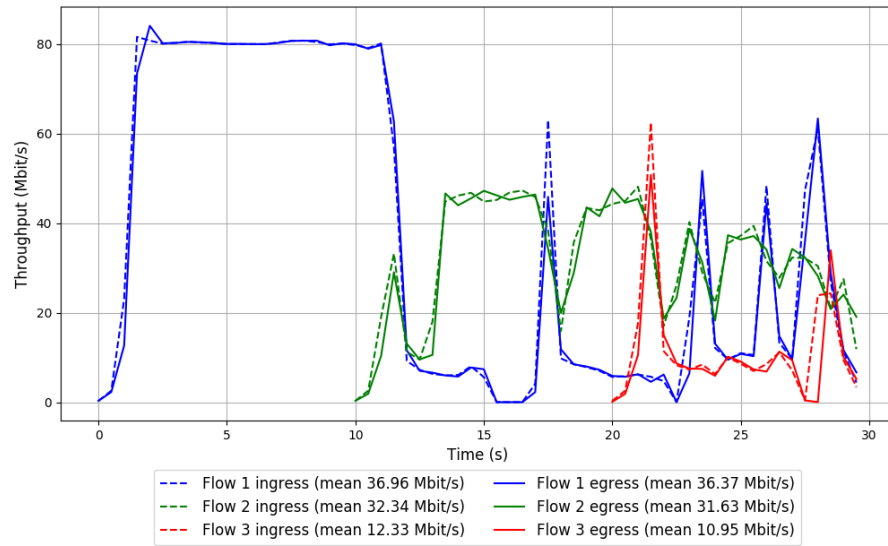
-- Flow 3:

Average throughput: 10.95 Mbit/s

95th percentile per-packet one-way delay: 127.826 ms

Loss rate: 11.22%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-04-24 21:33:10

End at: 2018-04-24 21:33:40

Local clock offset: -4.113 ms

Remote clock offset: 8.364 ms

Below is generated by plot.py at 2018-04-25 00:59:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 63.94 Mbit/s

95th percentile per-packet one-way delay: 127.351 ms

Loss rate: 0.49%

-- Flow 1:

Average throughput: 38.39 Mbit/s

95th percentile per-packet one-way delay: 127.597 ms

Loss rate: 0.56%

-- Flow 2:

Average throughput: 30.36 Mbit/s

95th percentile per-packet one-way delay: 127.311 ms

Loss rate: 0.38%

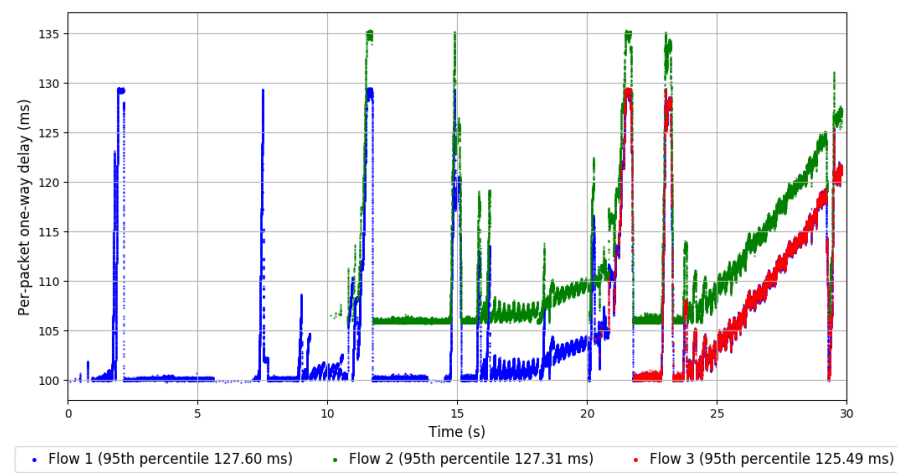
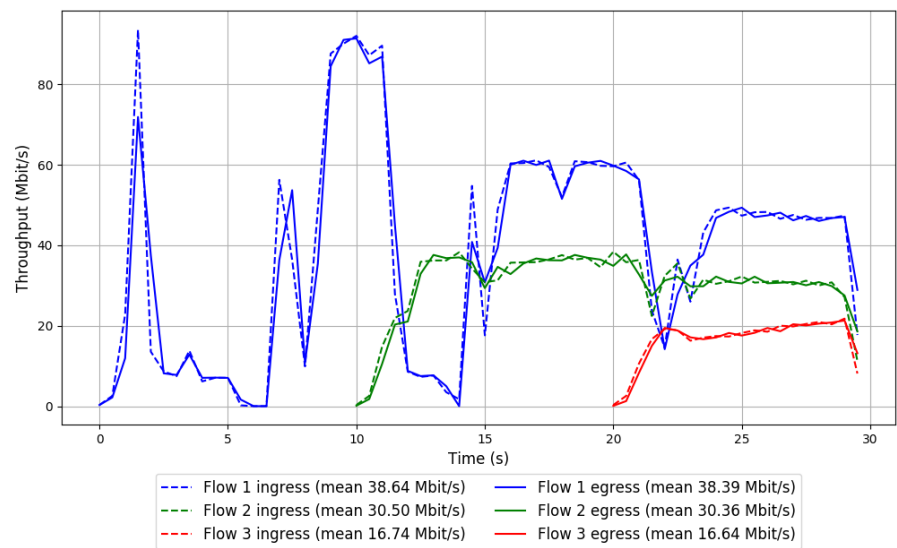
-- Flow 3:

Average throughput: 16.64 Mbit/s

95th percentile per-packet one-way delay: 125.491 ms

Loss rate: 0.37%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-04-24 21:55:41

End at: 2018-04-24 21:56:12

Local clock offset: -4.155 ms

Remote clock offset: 4.539 ms

Below is generated by plot.py at 2018-04-25 00:59:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 62.95 Mbit/s

95th percentile per-packet one-way delay: 119.896 ms

Loss rate: 0.46%

-- Flow 1:

Average throughput: 45.06 Mbit/s

95th percentile per-packet one-way delay: 122.160 ms

Loss rate: 0.50%

-- Flow 2:

Average throughput: 18.67 Mbit/s

95th percentile per-packet one-way delay: 116.673 ms

Loss rate: 0.29%

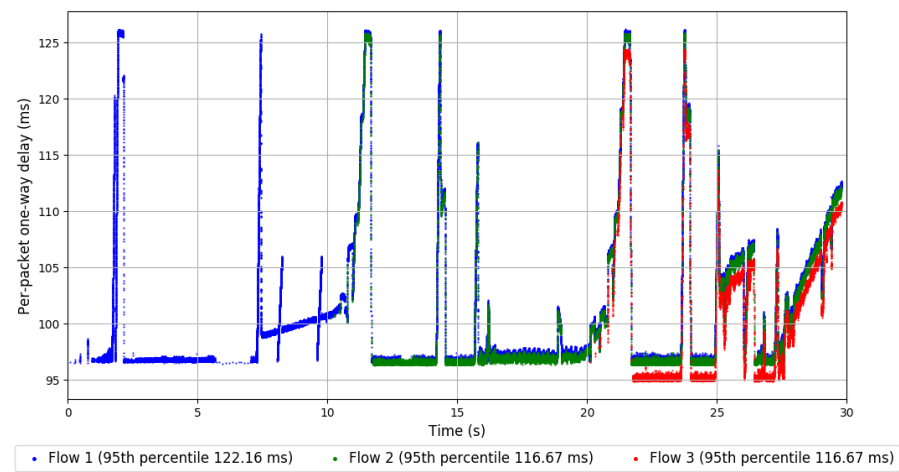
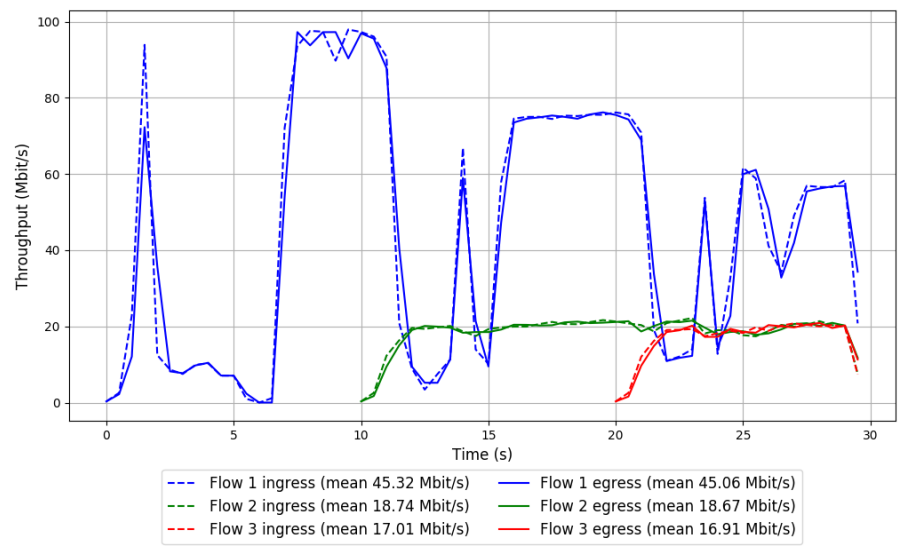
-- Flow 3:

Average throughput: 16.91 Mbit/s

95th percentile per-packet one-way delay: 116.669 ms

Loss rate: 0.44%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-04-24 22:18:14

End at: 2018-04-24 22:18:44

Local clock offset: -4.504 ms

Remote clock offset: 7.249 ms

Below is generated by plot.py at 2018-04-25 00:59:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 61.43 Mbit/s

95th percentile per-packet one-way delay: 128.824 ms

Loss rate: 1.21%

-- Flow 1:

Average throughput: 36.71 Mbit/s

95th percentile per-packet one-way delay: 128.697 ms

Loss rate: 1.08%

-- Flow 2:

Average throughput: 25.14 Mbit/s

95th percentile per-packet one-way delay: 132.614 ms

Loss rate: 1.08%

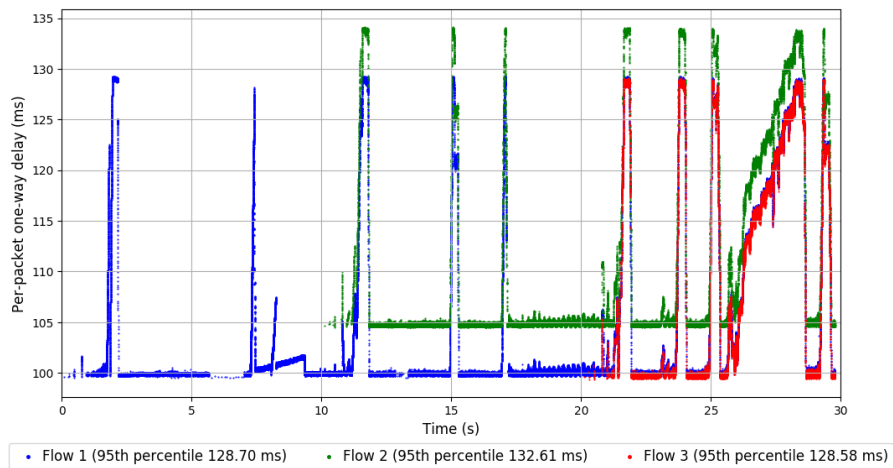
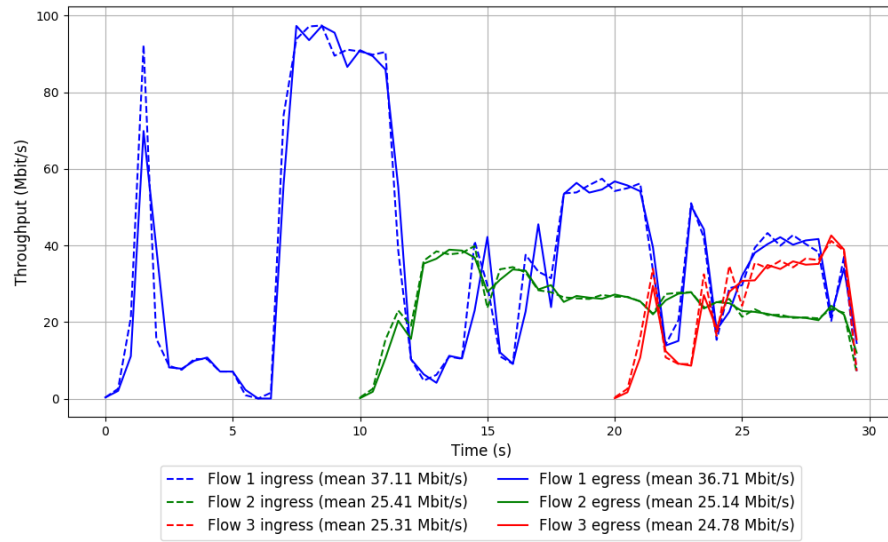
-- Flow 3:

Average throughput: 24.78 Mbit/s

95th percentile per-packet one-way delay: 128.578 ms

Loss rate: 2.07%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-04-24 22:40:45

End at: 2018-04-24 22:41:15

Local clock offset: -6.255 ms

Remote clock offset: 6.978 ms

Below is generated by plot.py at 2018-04-25 01:00:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 64.80 Mbit/s

95th percentile per-packet one-way delay: 124.652 ms

Loss rate: 0.33%

-- Flow 1:

Average throughput: 40.49 Mbit/s

95th percentile per-packet one-way delay: 126.084 ms

Loss rate: 0.32%

-- Flow 2:

Average throughput: 28.57 Mbit/s

95th percentile per-packet one-way delay: 118.052 ms

Loss rate: 0.40%

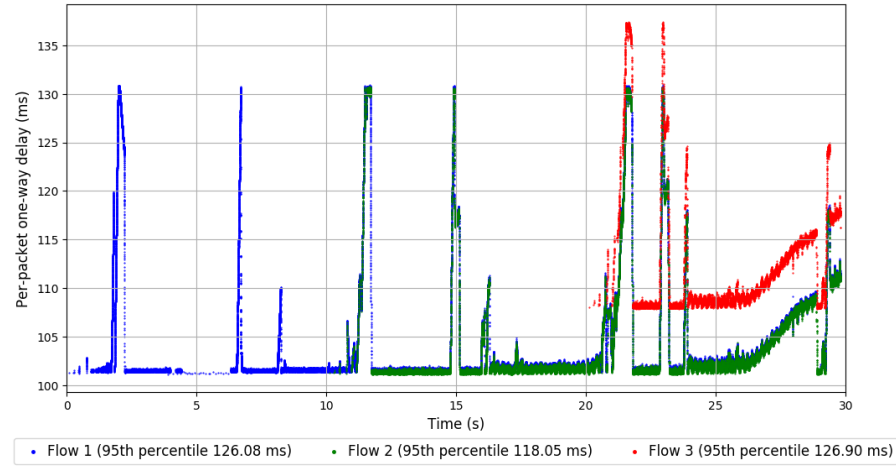
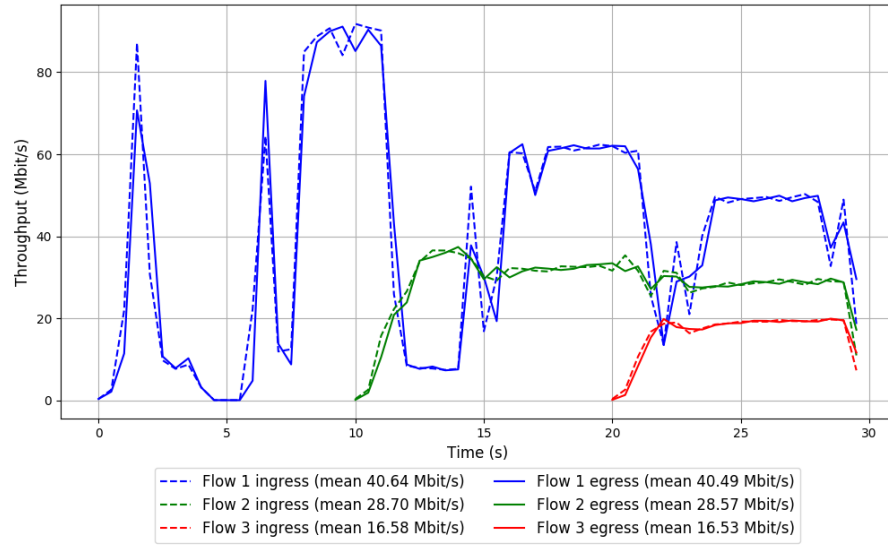
-- Flow 3:

Average throughput: 16.53 Mbit/s

95th percentile per-packet one-way delay: 126.896 ms

Loss rate: 0.23%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-04-24 23:03:17

End at: 2018-04-24 23:03:47

Local clock offset: -5.176 ms

Remote clock offset: 8.434 ms

Below is generated by plot.py at 2018-04-25 01:01:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 67.47 Mbit/s

95th percentile per-packet one-way delay: 128.072 ms

Loss rate: 0.37%

-- Flow 1:

Average throughput: 44.04 Mbit/s

95th percentile per-packet one-way delay: 128.554 ms

Loss rate: 0.30%

-- Flow 2:

Average throughput: 28.26 Mbit/s

95th percentile per-packet one-way delay: 128.226 ms

Loss rate: 0.51%

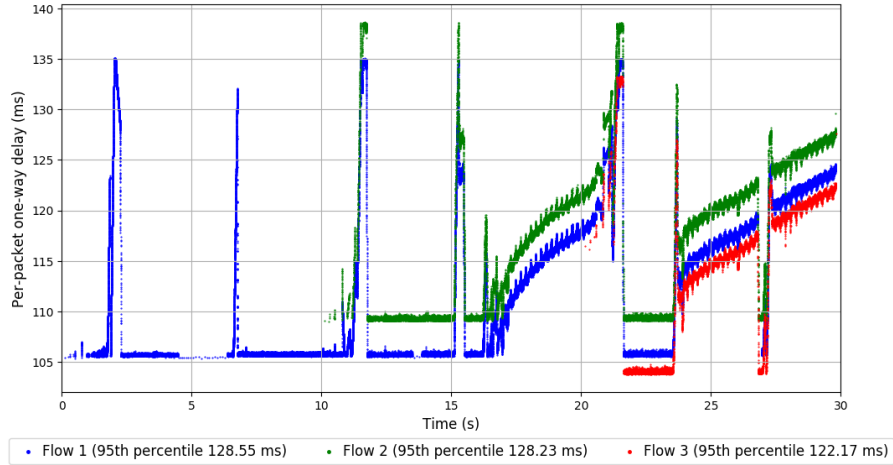
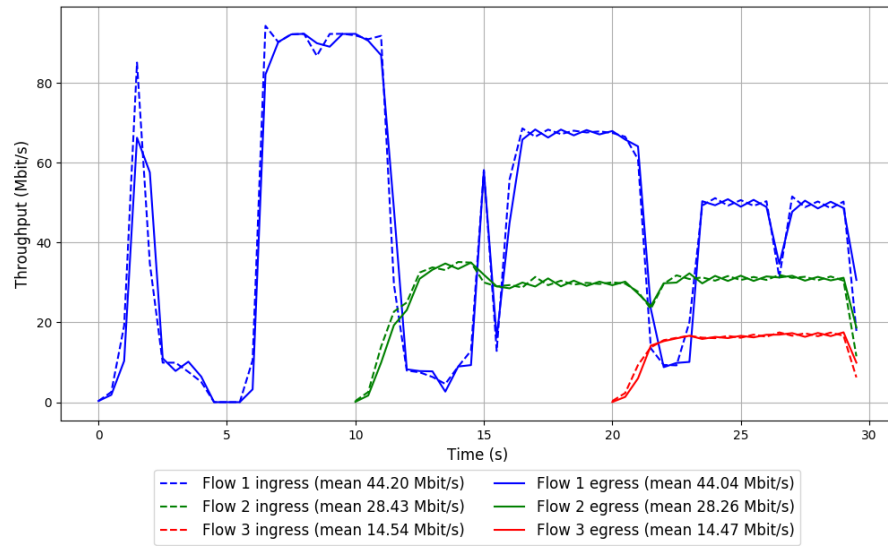
-- Flow 3:

Average throughput: 14.47 Mbit/s

95th percentile per-packet one-way delay: 122.174 ms

Loss rate: 0.39%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-04-24 23:25:56

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

Local clock offset: -4.296 ms

Remote clock offset: 2.421 ms

Below is generated by plot.py at 2018-04-25 01:01:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 61.83 Mbit/s

95th percentile per-packet one-way delay: 120.260 ms

Loss rate: 0.49%

-- Flow 1:

Average throughput: 44.23 Mbit/s

95th percentile per-packet one-way delay: 123.060 ms

Loss rate: 0.53%

-- Flow 2:

Average throughput: 18.42 Mbit/s

95th percentile per-packet one-way delay: 115.094 ms

Loss rate: 0.31%

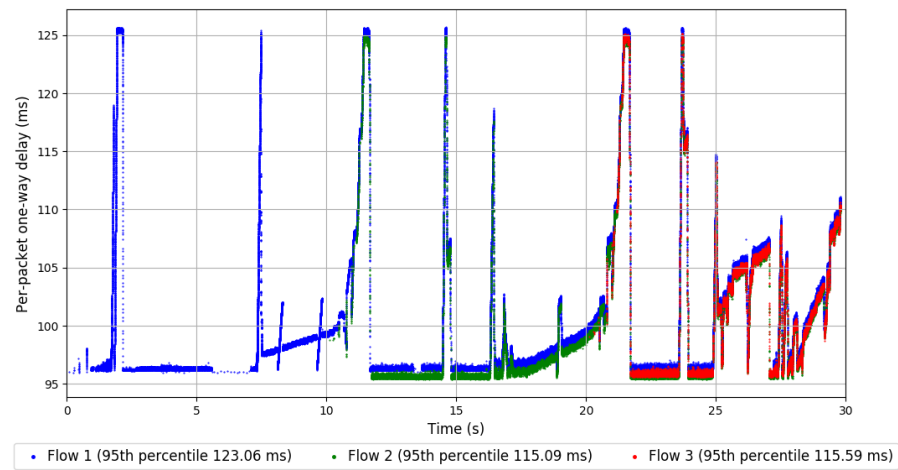
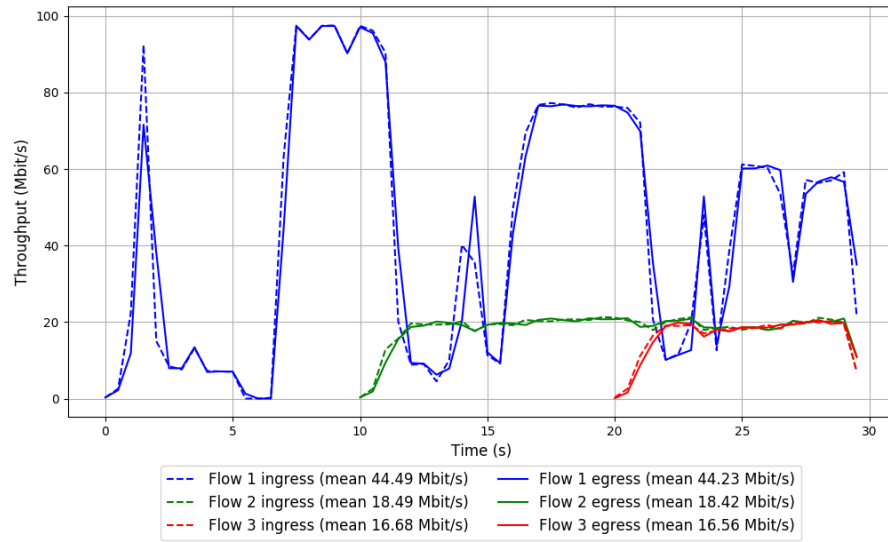
-- Flow 3:

Average throughput: 16.56 Mbit/s

95th percentile per-packet one-way delay: 115.589 ms

Loss rate: 0.56%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-04-24 23:48:10

End at: 2018-04-24 23:48:40

Local clock offset: -5.024 ms

Remote clock offset: 6.762 ms

Below is generated by plot.py at 2018-04-25 01:01:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 64.47 Mbit/s

95th percentile per-packet one-way delay: 130.446 ms

Loss rate: 2.27%

-- Flow 1:

Average throughput: 40.19 Mbit/s

95th percentile per-packet one-way delay: 131.025 ms

Loss rate: 1.15%

-- Flow 2:

Average throughput: 31.37 Mbit/s

95th percentile per-packet one-way delay: 128.713 ms

Loss rate: 2.29%

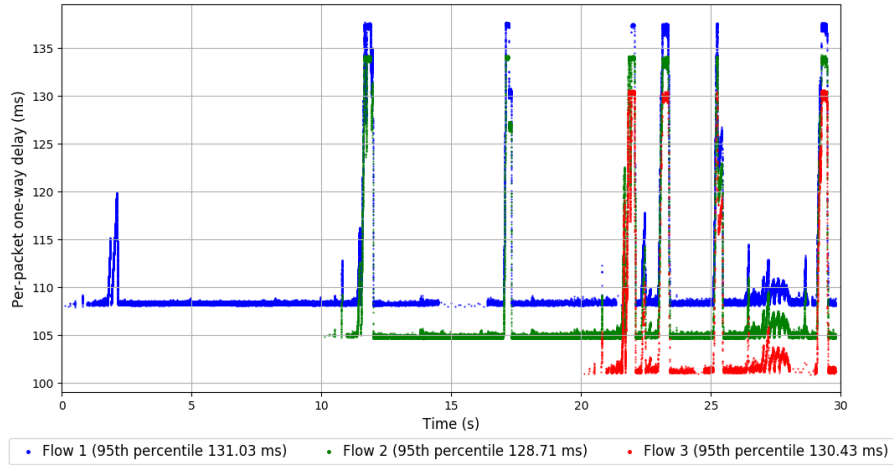
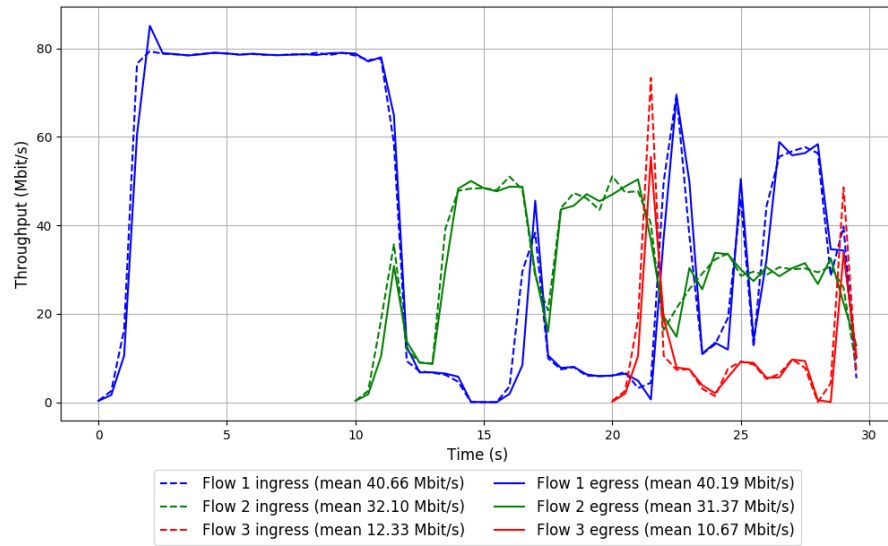
-- Flow 3:

Average throughput: 10.67 Mbit/s

95th percentile per-packet one-way delay: 130.429 ms

Loss rate: 13.45%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-04-25 00:10:47

End at: 2018-04-25 00:11:17

Local clock offset: -4.962 ms

Remote clock offset: 2.795 ms

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 67.01 Mbit/s

95th percentile per-packet one-way delay: 125.063 ms

Loss rate: 0.36%

-- Flow 1:

Average throughput: 44.57 Mbit/s

95th percentile per-packet one-way delay: 122.171 ms

Loss rate: 0.34%

-- Flow 2:

Average throughput: 30.25 Mbit/s

95th percentile per-packet one-way delay: 128.059 ms

Loss rate: 0.46%

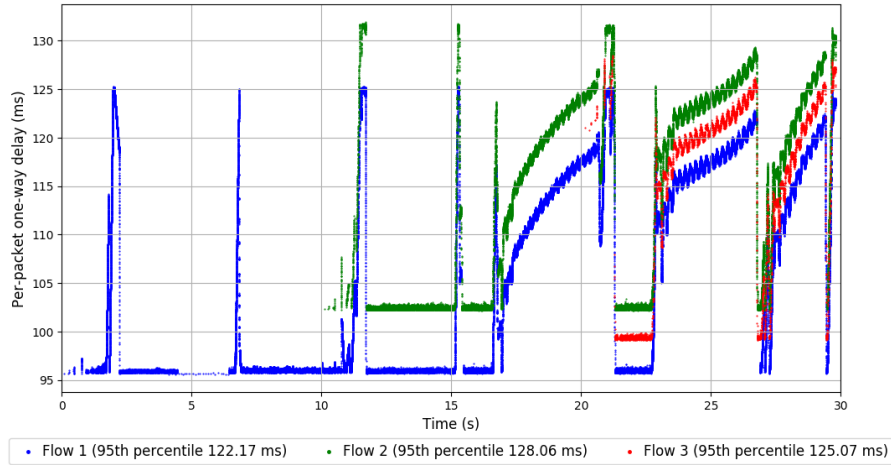
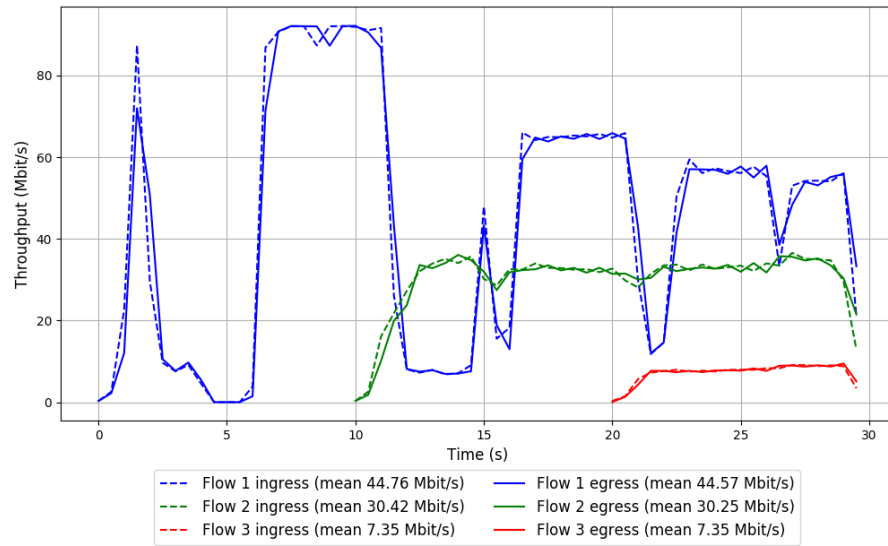
-- Flow 3:

Average throughput: 7.35 Mbit/s

95th percentile per-packet one-way delay: 125.066 ms

Loss rate: 0.02%

Run 10: Report of QUIC Cubic — Data Link

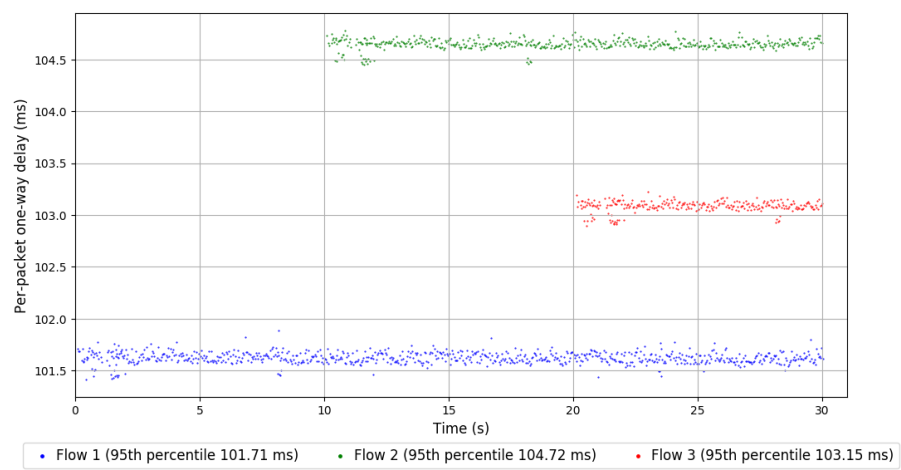
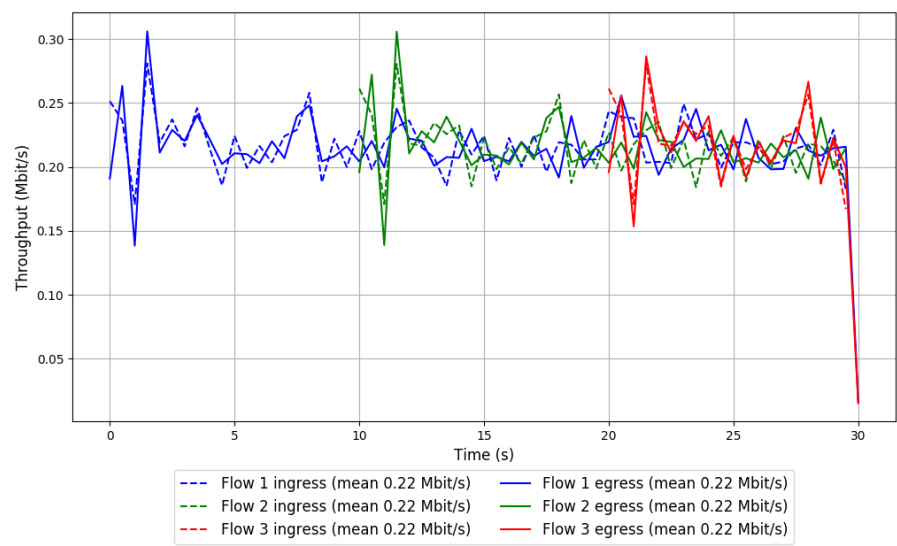


```
Run 1: Statistics of SReAM

Start at: 2018-04-24 20:55:50
End at: 2018-04-24 20:56:20
Local clock offset: -5.567 ms
Remote clock offset: 9.274 ms

# Below is generated by plot.py at 2018-04-25 01:01:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 104.695 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 101.707 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 104.719 ms
Loss rate: 0.19%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 103.153 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SReAM

Start at: 2018-04-24 21:18:26

End at: 2018-04-24 21:18:56

Local clock offset: -4.912 ms

Remote clock offset: 9.286 ms

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 107.028 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 101.962 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 102.465 ms

Loss rate: 0.00%

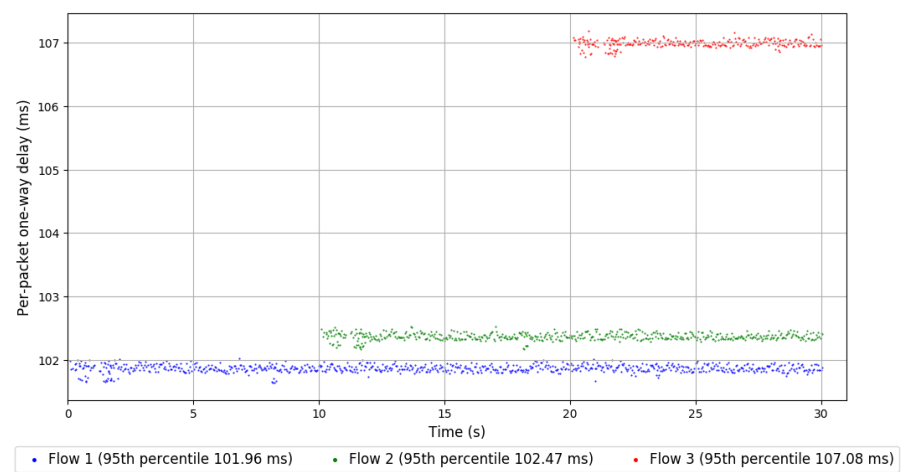
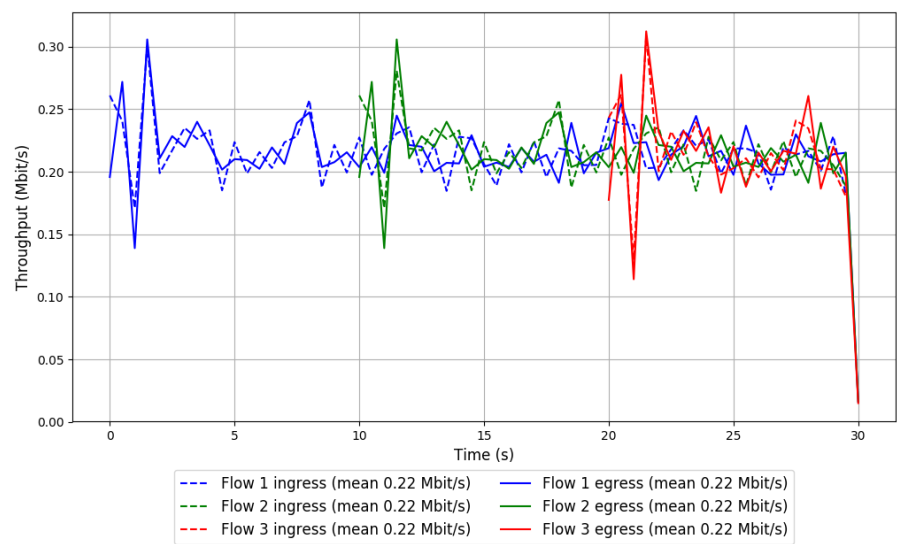
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 107.076 ms

Loss rate: 0.00%

Run 2: Report of SReAM — Data Link

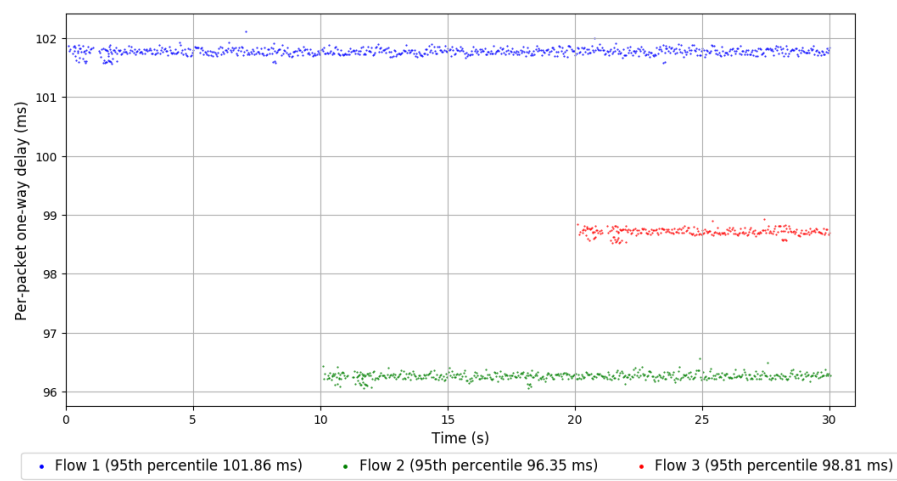
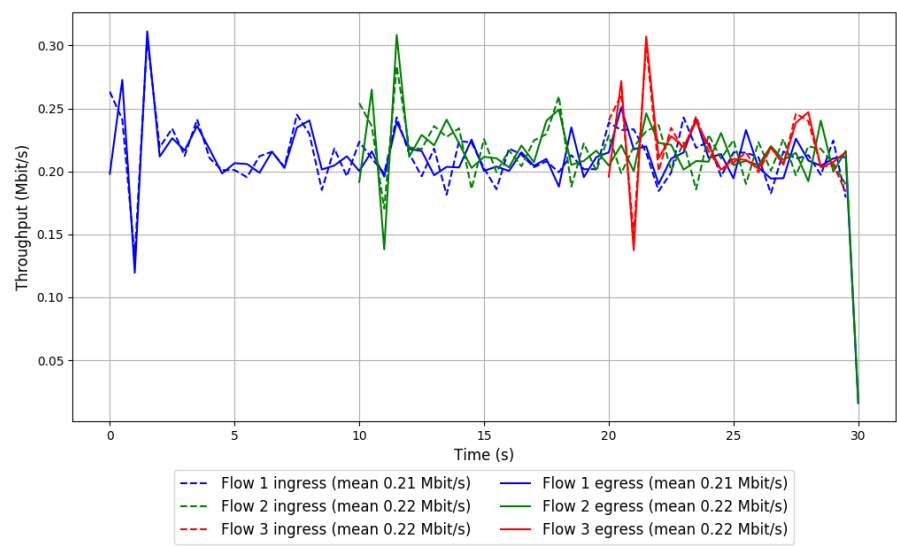


Run 3: Statistics of SReAM

Start at: 2018-04-24 21:41:03
End at: 2018-04-24 21:41:33
Local clock offset: -4.921 ms
Remote clock offset: 3.798 ms

Below is generated by plot.py at 2018-04-25 01:01:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 101.843 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 101.863 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 96.353 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 98.813 ms
Loss rate: 0.00%

Run 3: Report of SReAM — Data Link

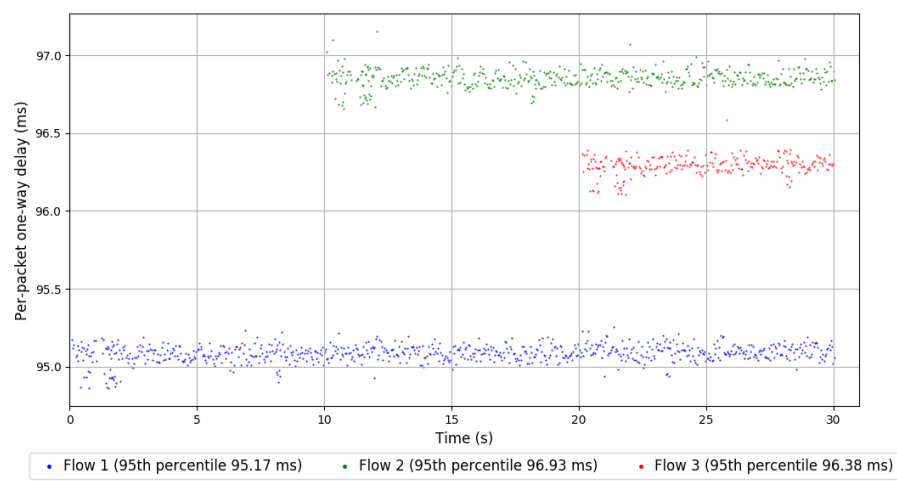
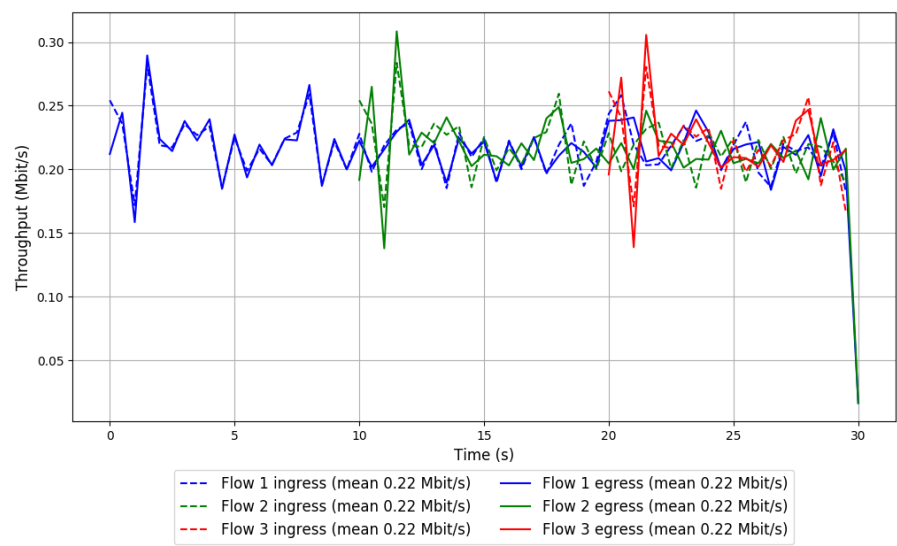


Run 4: Statistics of SReAM

Start at: 2018-04-24 22:03:32
End at: 2018-04-24 22:04:02
Local clock offset: -4.142 ms
Remote clock offset: 4.449 ms

Below is generated by plot.py at 2018-04-25 01:01:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 96.909 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 95.167 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 96.932 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 96.376 ms
Loss rate: 0.00%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SReAM

Start at: 2018-04-24 22:26:05

End at: 2018-04-24 22:26:35

Local clock offset: -5.35 ms

Remote clock offset: 8.913 ms

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 109.027 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 109.044 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 102.232 ms

Loss rate: 0.00%

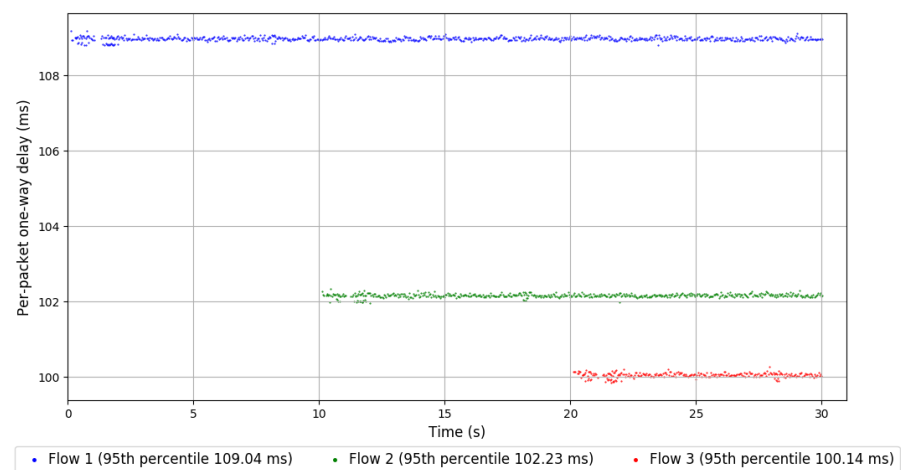
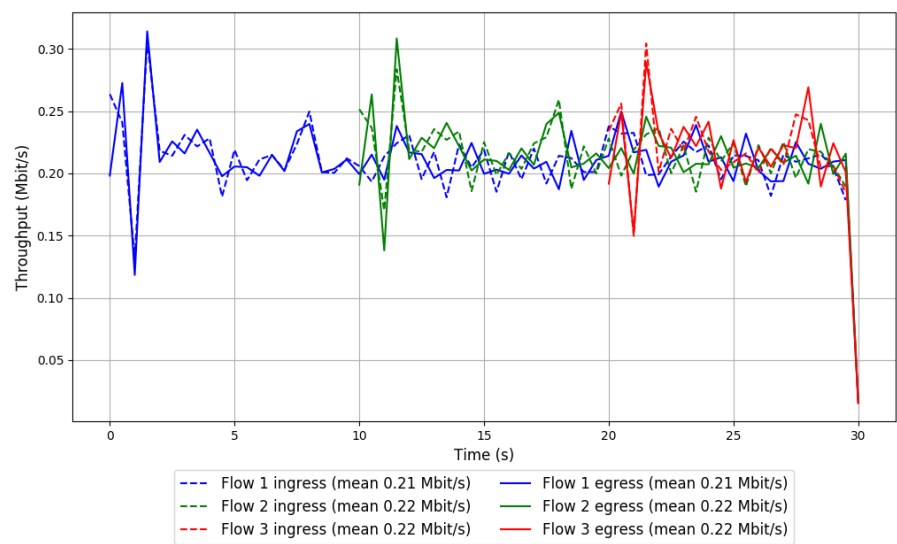
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 100.143 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SReAM

Start at: 2018-04-24 22:48:36

End at: 2018-04-24 22:49:06

Local clock offset: -4.555 ms

Remote clock offset: 7.782 ms

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 105.906 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 105.747 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 105.940 ms

Loss rate: 0.00%

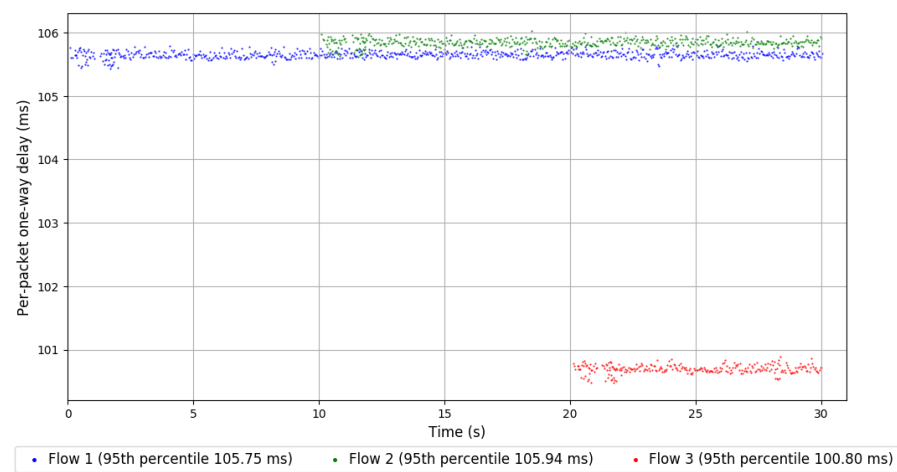
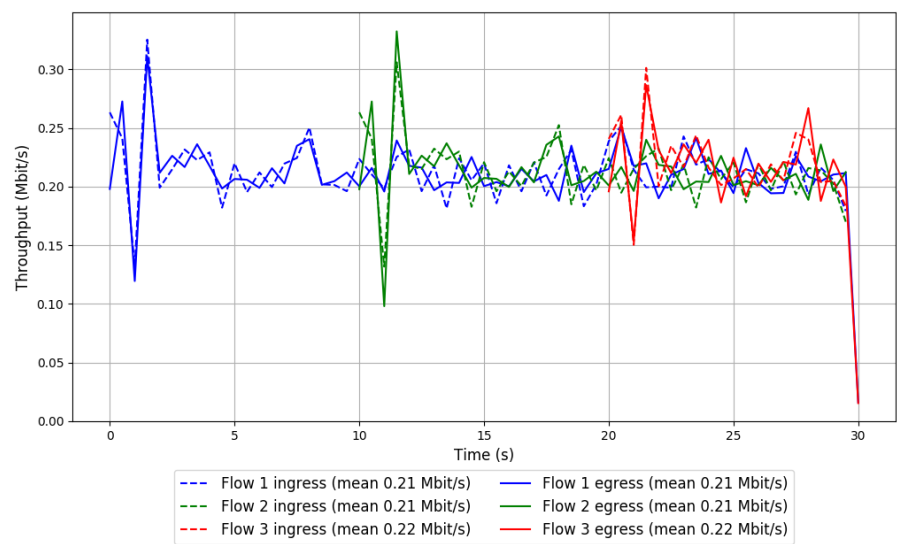
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 100.796 ms

Loss rate: 0.00%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SReAM

Start at: 2018-04-24 23:11:12

End at: 2018-04-24 23:11:42

Local clock offset: -4.36 ms

Remote clock offset: 3.599 ms

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 96.880 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 95.548 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 96.913 ms

Loss rate: 0.00%

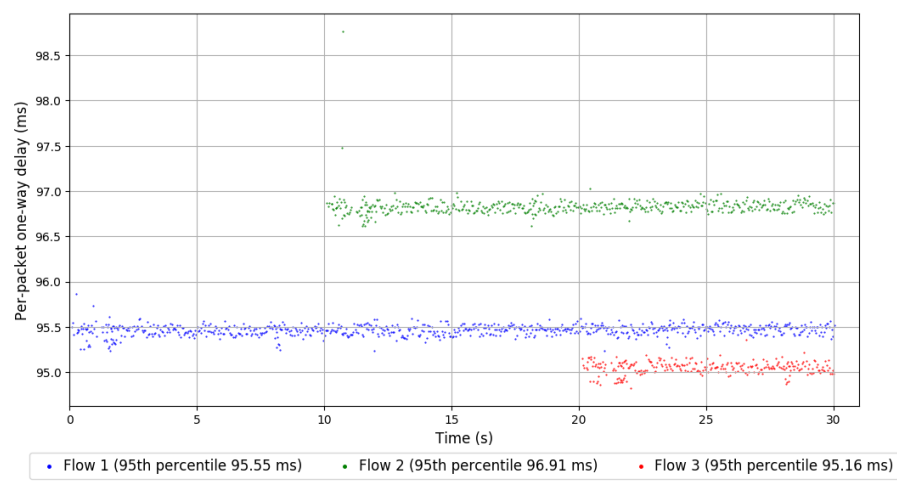
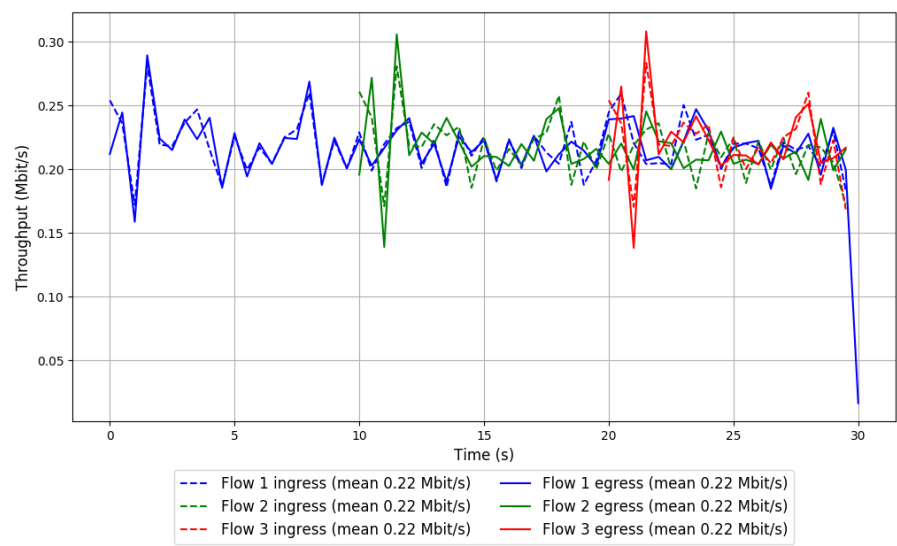
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 95.157 ms

Loss rate: 0.00%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SReAM

Start at: 2018-04-24 23:33:47

End at: 2018-04-24 23:34:17

Local clock offset: -4.25 ms

Remote clock offset: 6.151 ms

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 105.150 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 104.870 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 105.181 ms

Loss rate: 0.19%

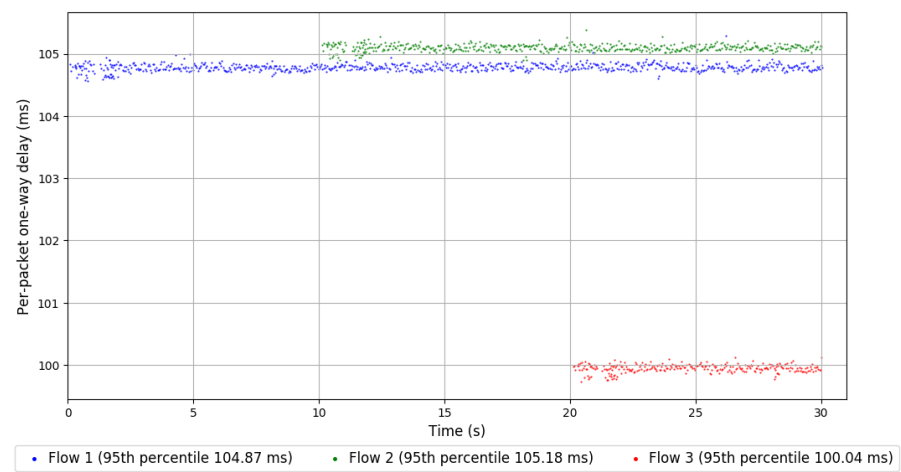
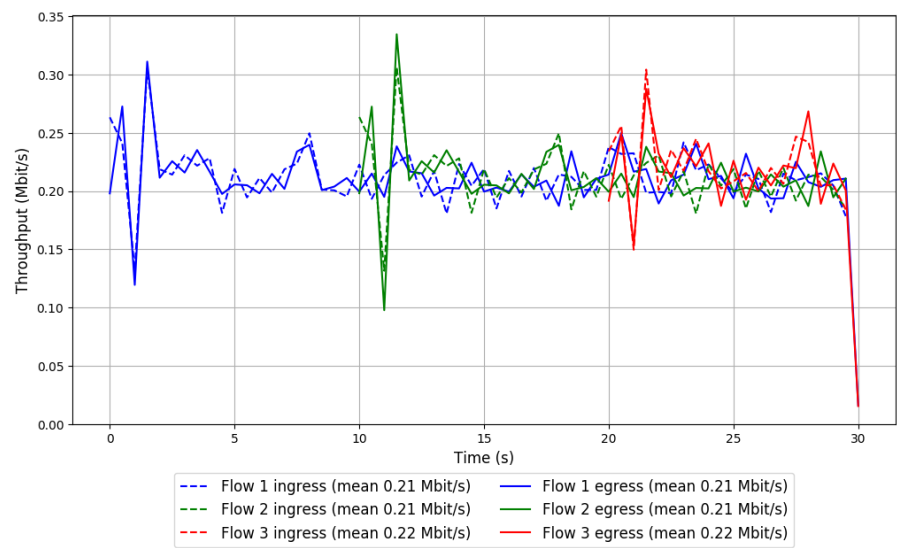
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 100.044 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SReAM

Start at: 2018-04-24 23:56:02

End at: 2018-04-24 23:56:32

Local clock offset: -4.953 ms

Remote clock offset: 2.876 ms

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 97.299 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 97.314 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 97.174 ms

Loss rate: 0.00%

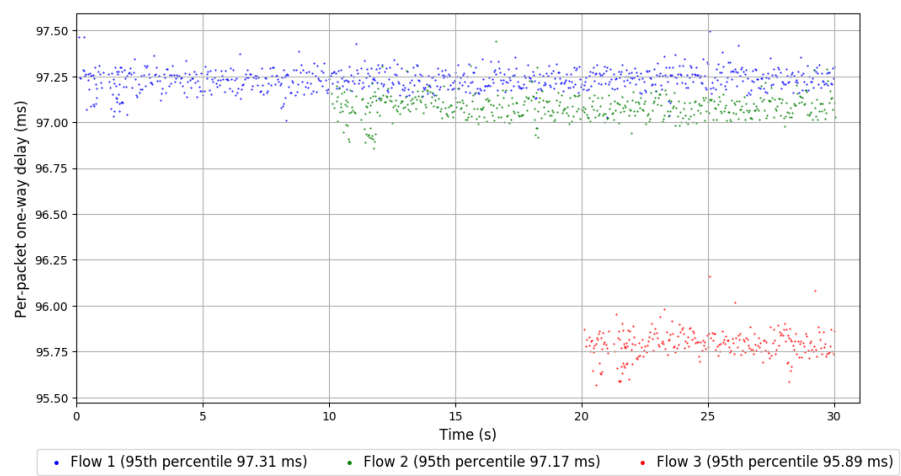
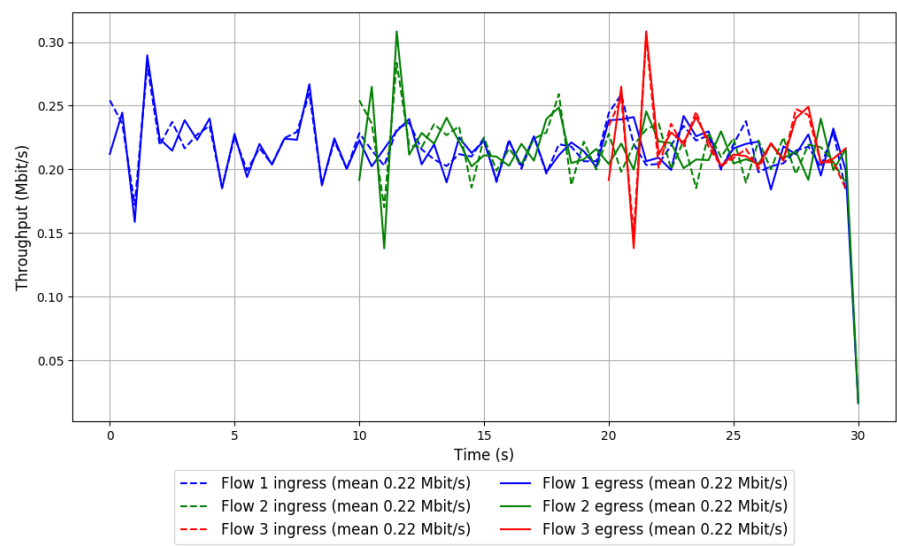
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 95.887 ms

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-04-25 00:18:38

End at: 2018-04-25 00:19:08

Local clock offset: -4.202 ms

Remote clock offset: 2.395 ms

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 98.047 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 95.730 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 95.954 ms

Loss rate: 0.00%

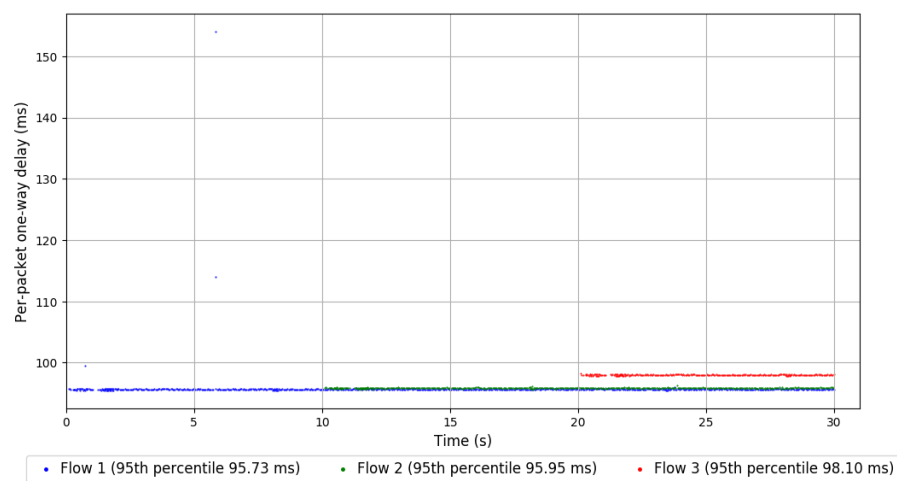
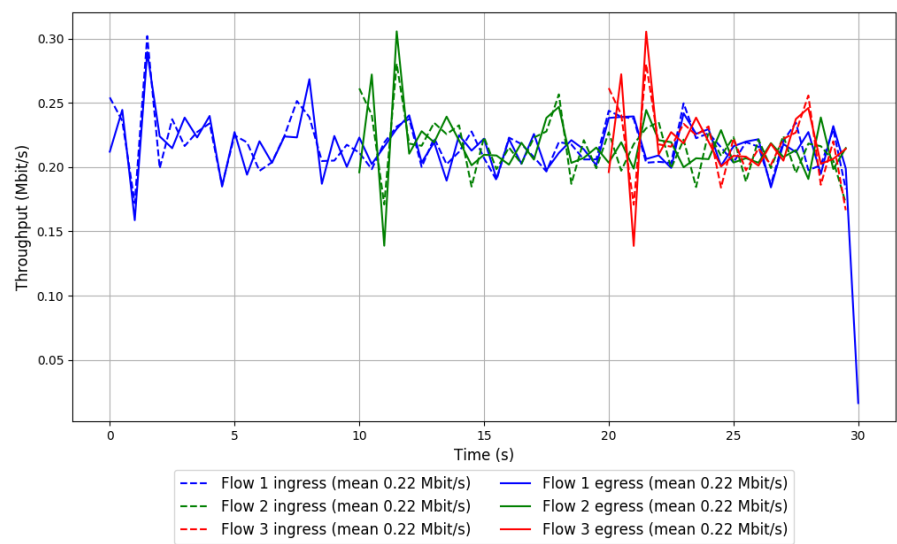
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 98.097 ms

Loss rate: 0.00%

Run 10: Report of SReAM — Data Link



Run 1: Statistics of WebRTC media

Start at: 2018-04-24 20:44:06

End at: 2018-04-24 20:44:36

Local clock offset: -4.842 ms

Remote clock offset: 3.395 ms

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.16 Mbit/s

95th percentile per-packet one-way delay: 103.163 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 103.947 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 100.309 ms

Loss rate: 0.04%

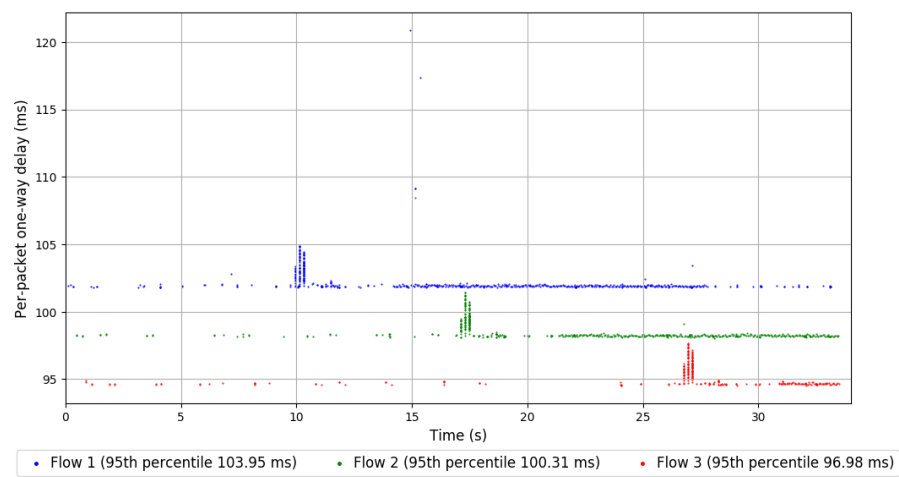
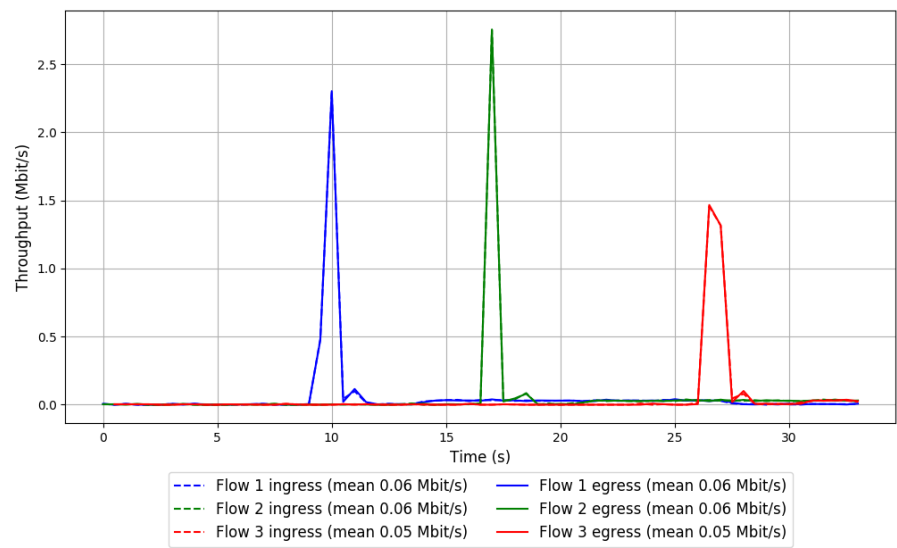
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 96.984 ms

Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-04-24 21:06:42

End at: 2018-04-24 21:07:12

Local clock offset: -4.12 ms

Remote clock offset: 9.255 ms

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.16 Mbit/s

95th percentile per-packet one-way delay: 110.155 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 102.271 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 102.951 ms

Loss rate: 0.00%

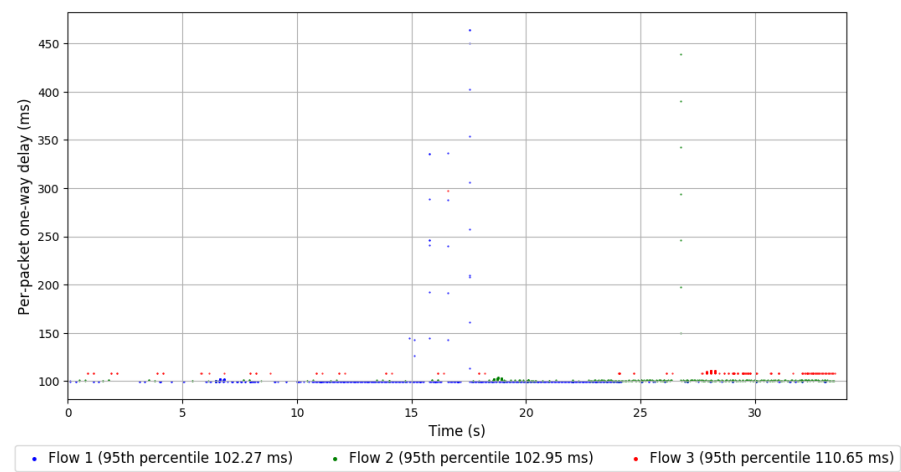
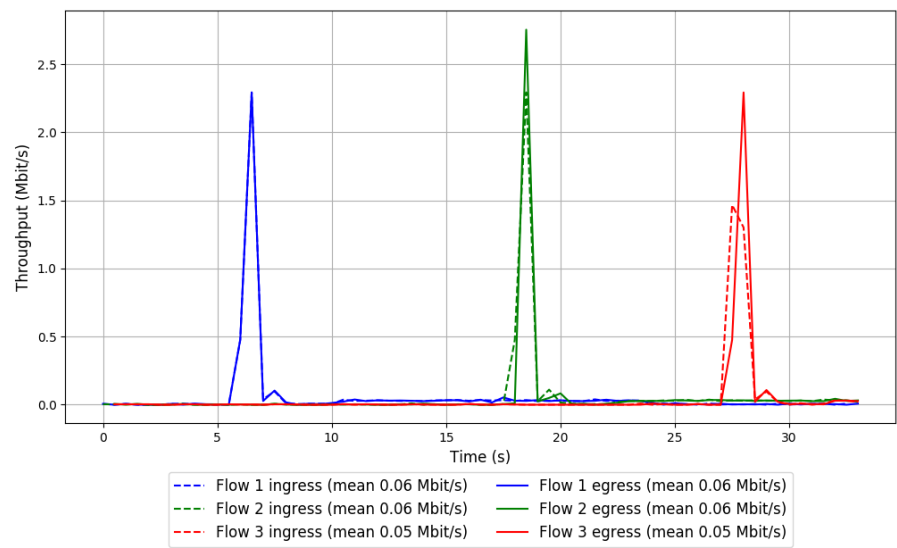
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 110.651 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-04-24 21:29:12

End at: 2018-04-24 21:29:42

Local clock offset: -4.949 ms

Remote clock offset: 8.397 ms

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.16 Mbit/s

95th percentile per-packet one-way delay: 103.831 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 100.957 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 104.779 ms

Loss rate: 0.00%

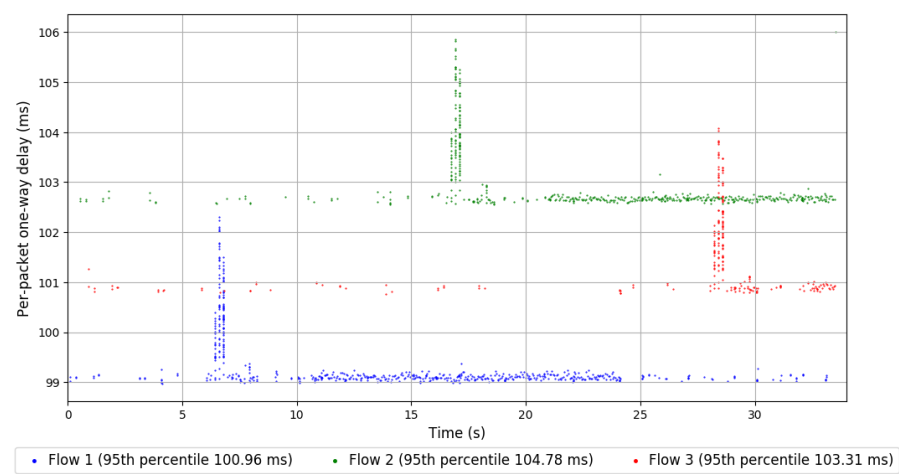
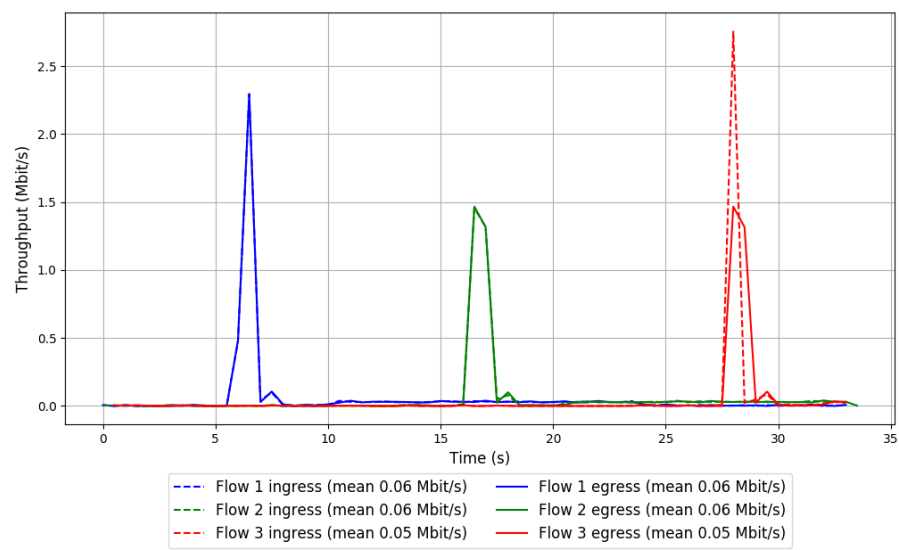
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 103.309 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-04-24 21:51:47

End at: 2018-04-24 21:52:17

Local clock offset: -5.709 ms

Remote clock offset: 7.529 ms

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.16 Mbit/s

95th percentile per-packet one-way delay: 104.483 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 105.210 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 100.740 ms

Loss rate: 0.00%

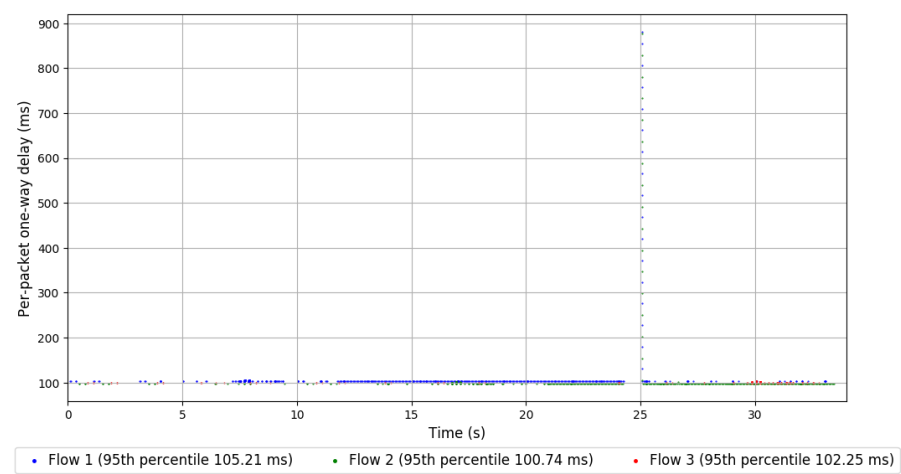
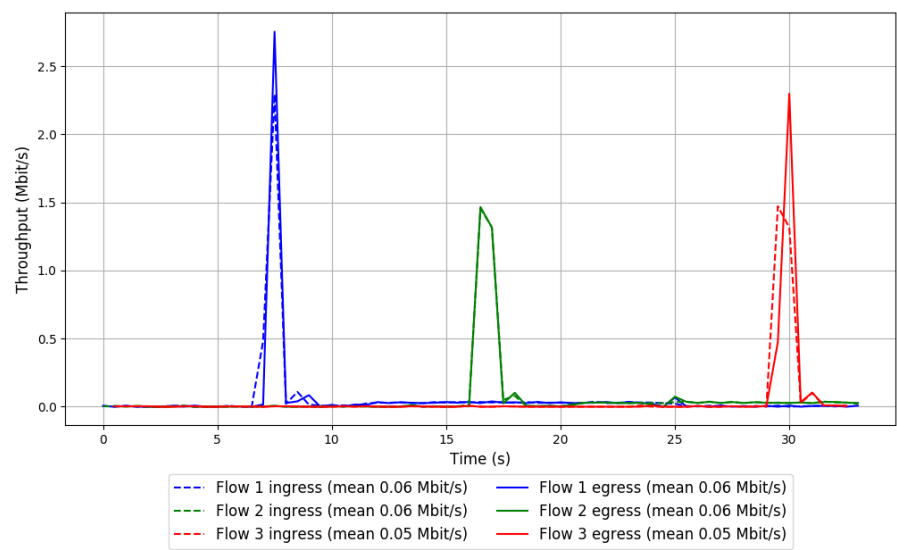
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 102.248 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-04-24 22:14:18

End at: 2018-04-24 22:14:48

Local clock offset: -5.896 ms

Remote clock offset: 7.997 ms

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.16 Mbit/s

95th percentile per-packet one-way delay: 110.656 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 104.905 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 221.543 ms

Loss rate: 0.04%

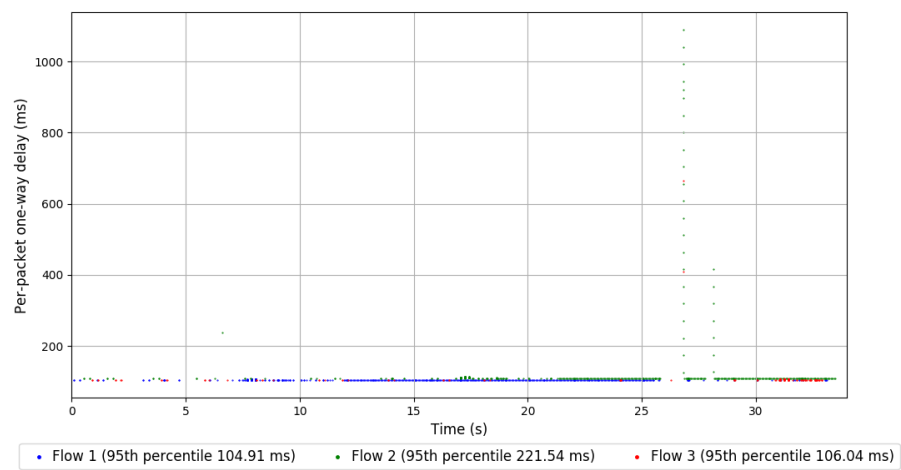
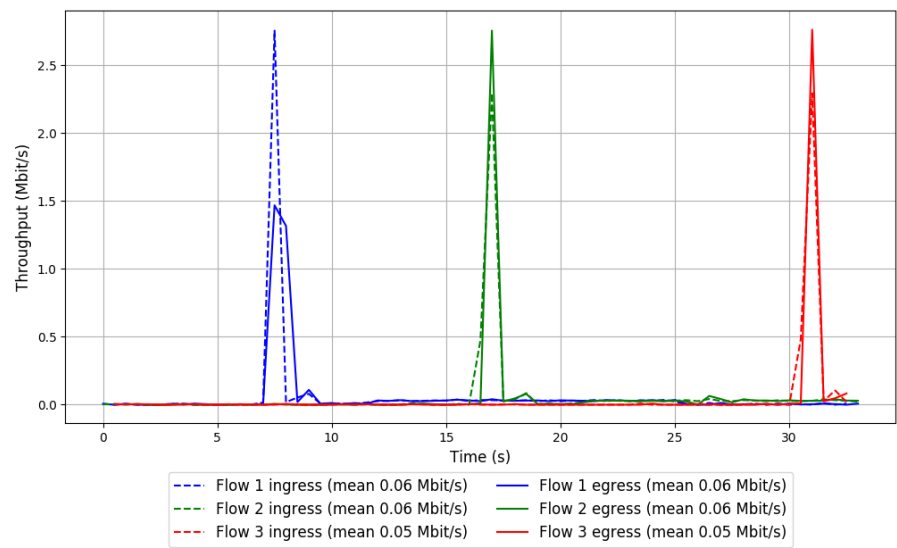
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 106.037 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-04-24 22:36:50

End at: 2018-04-24 22:37:20

Local clock offset: -5.424 ms

Remote clock offset: 4.077 ms

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.16 Mbit/s

95th percentile per-packet one-way delay: 100.561 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 99.104 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 100.697 ms

Loss rate: 0.00%

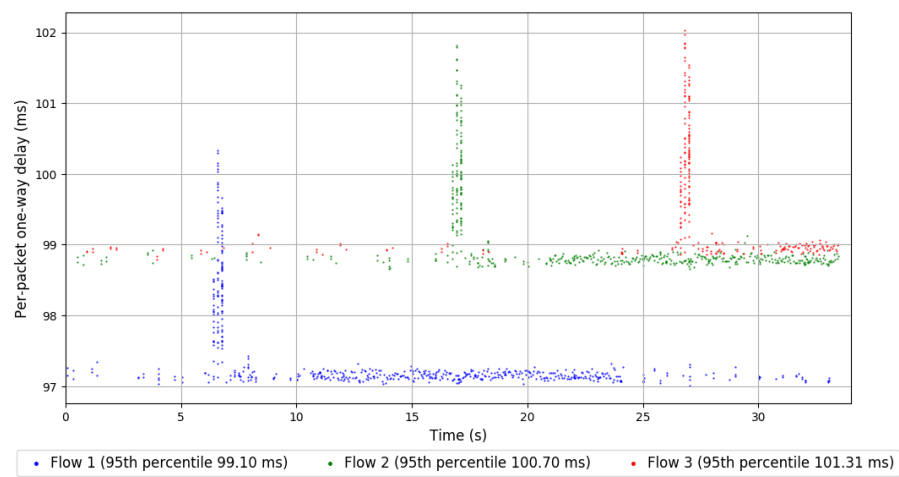
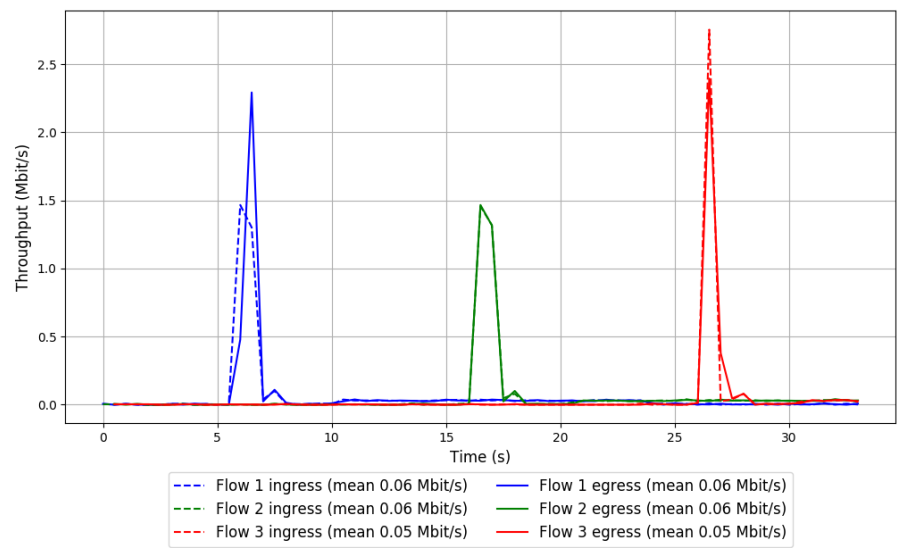
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 101.309 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-04-24 22:59:23

End at: 2018-04-24 22:59:53

Local clock offset: -5.197 ms

Remote clock offset: 6.796 ms

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.16 Mbit/s

95th percentile per-packet one-way delay: 105.116 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 106.004 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 102.191 ms

Loss rate: 0.00%

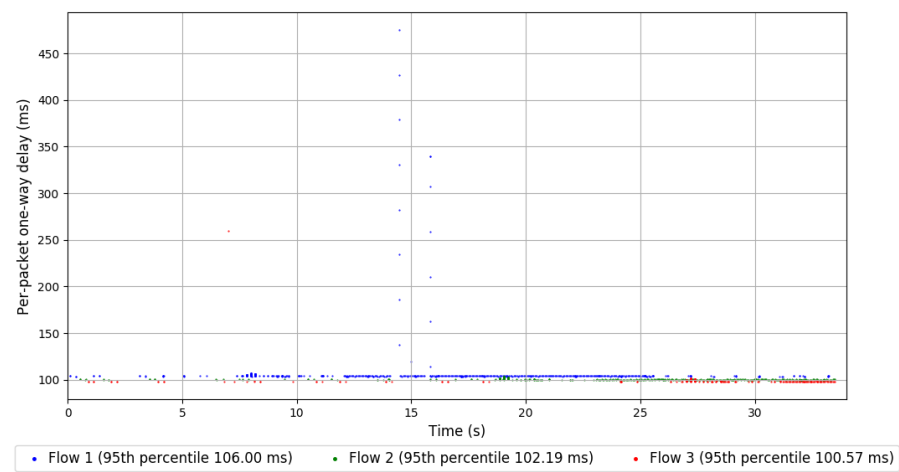
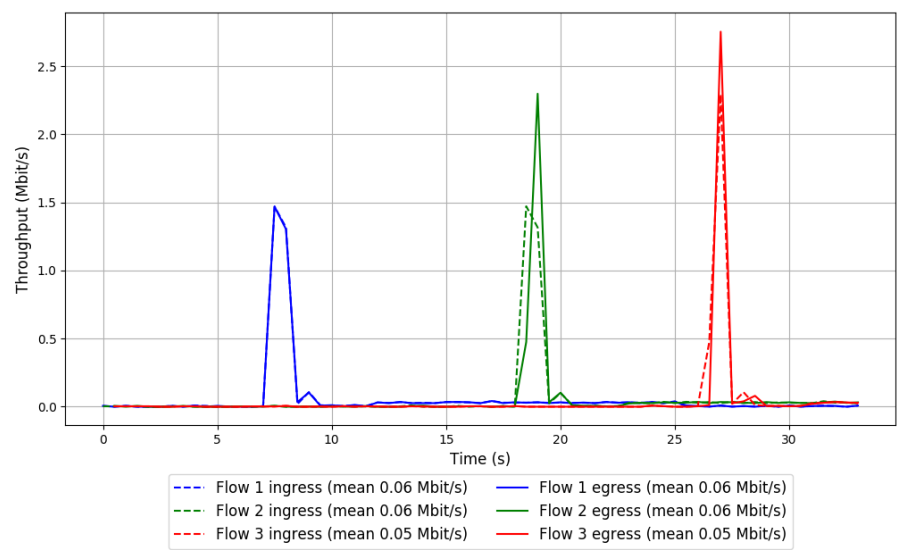
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 100.567 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-04-24 23:22:01

End at: 2018-04-24 23:22:31

Local clock offset: -5.074 ms

Remote clock offset: 2.478 ms

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.16 Mbit/s

95th percentile per-packet one-way delay: 99.944 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 98.727 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 100.233 ms

Loss rate: 0.00%

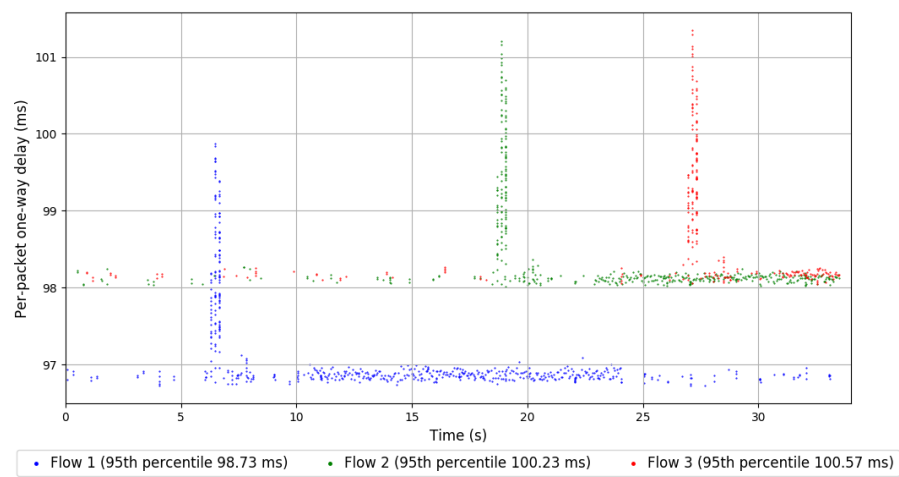
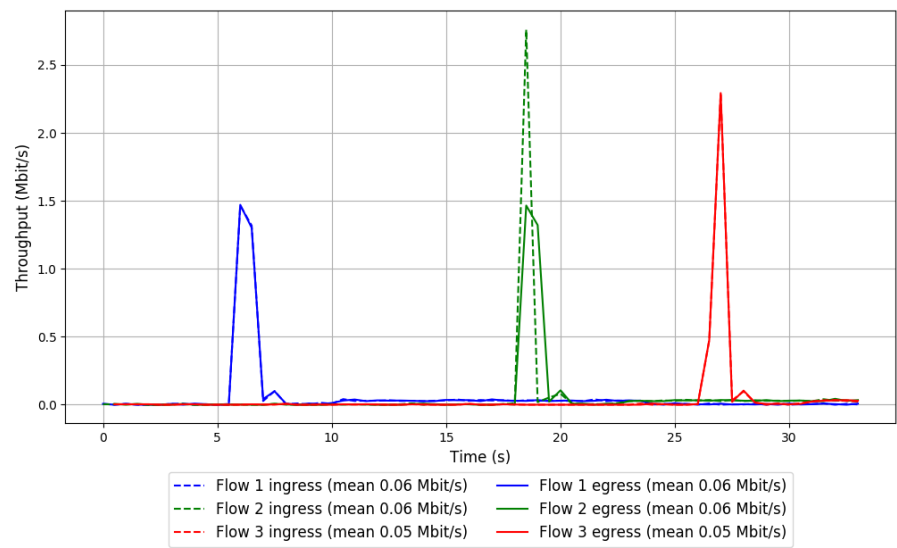
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 100.567 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-04-24 23:44:16

End at: 2018-04-24 23:44:46

Local clock offset: -5.019 ms

Remote clock offset: 2.977 ms

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.16 Mbit/s

95th percentile per-packet one-way delay: 105.891 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 103.600 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 106.573 ms

Loss rate: 0.00%

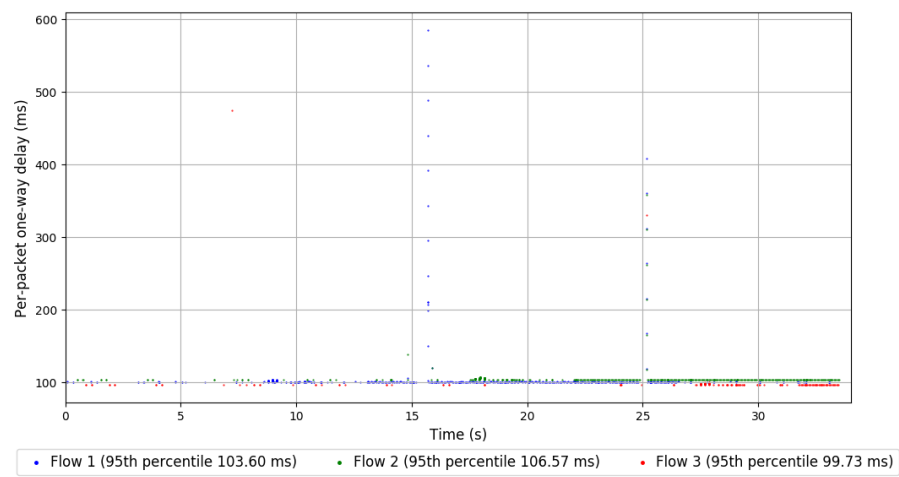
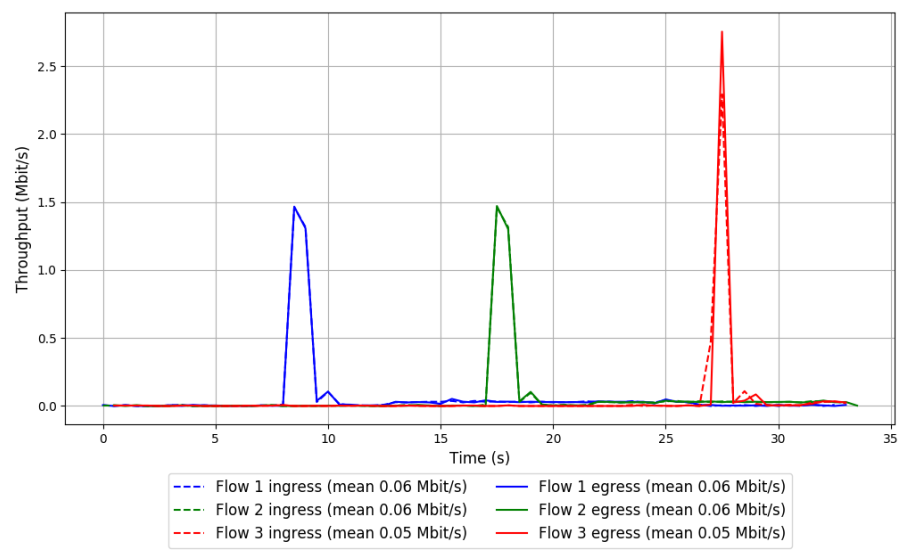
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 99.735 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-04-25 00:06:53

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

Local clock offset: -5.024 ms

Remote clock offset: 1.987 ms

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.16 Mbit/s

95th percentile per-packet one-way delay: 104.618 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 105.313 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 102.674 ms

Loss rate: 0.00%

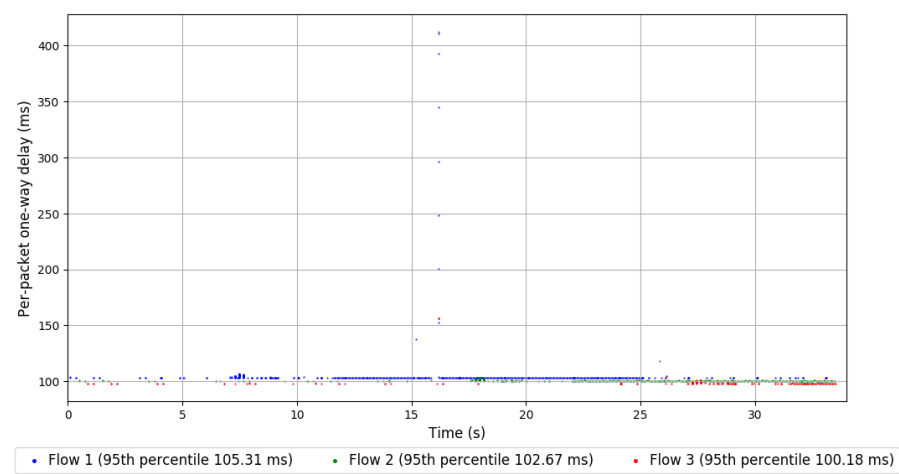
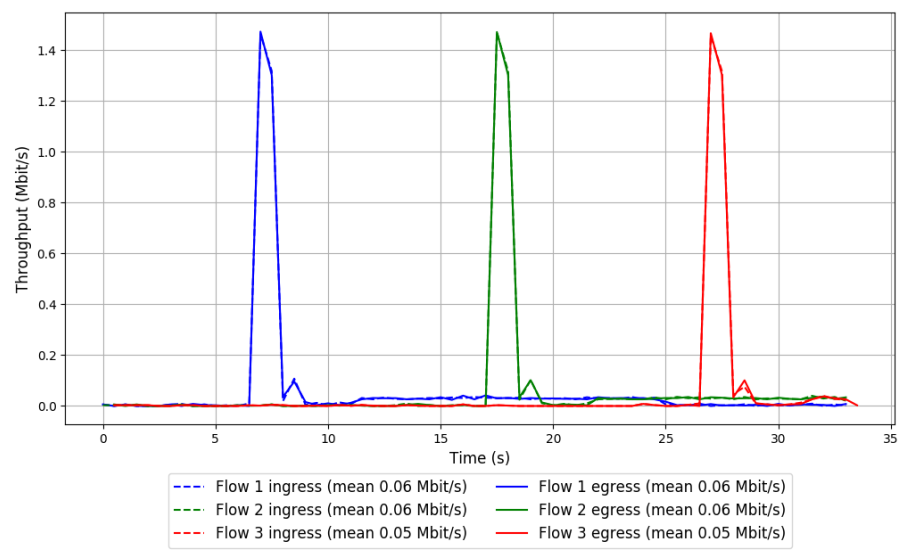
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 100.183 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2018-04-24 20:57:05

End at: 2018-04-24 20:57:35

Local clock offset: -4.763 ms

Remote clock offset: 3.733 ms

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 8.11 Mbit/s

95th percentile per-packet one-way delay: 104.234 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 4.21 Mbit/s

95th percentile per-packet one-way delay: 104.221 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 4.01 Mbit/s

95th percentile per-packet one-way delay: 104.221 ms

Loss rate: 0.00%

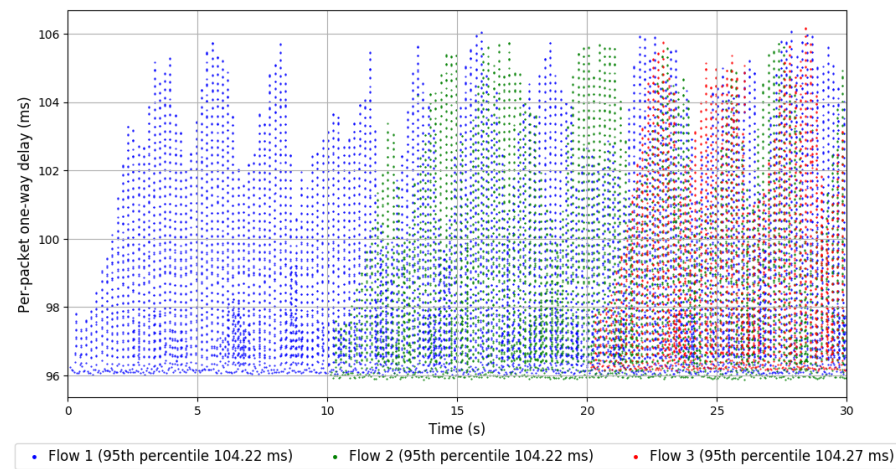
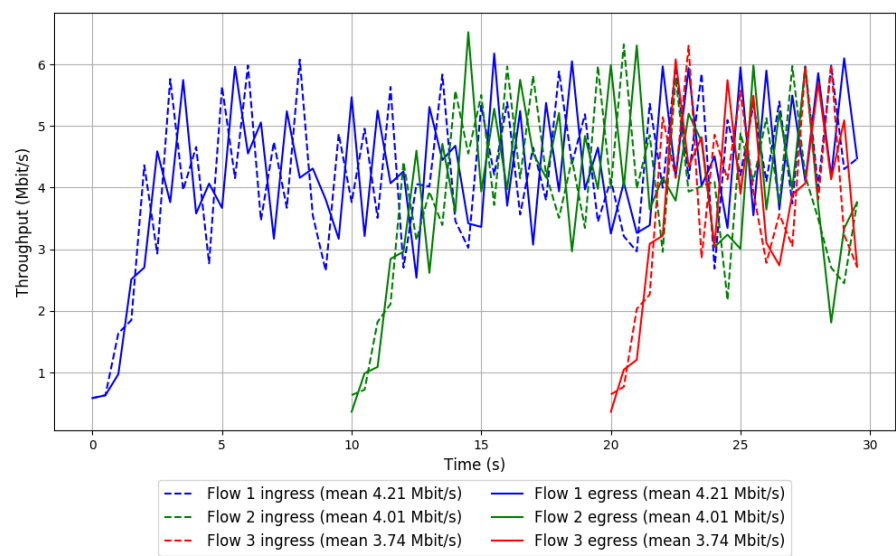
-- Flow 3:

Average throughput: 3.74 Mbit/s

95th percentile per-packet one-way delay: 104.271 ms

Loss rate: 0.00%

Run 1: Report of Sprout — Data Link

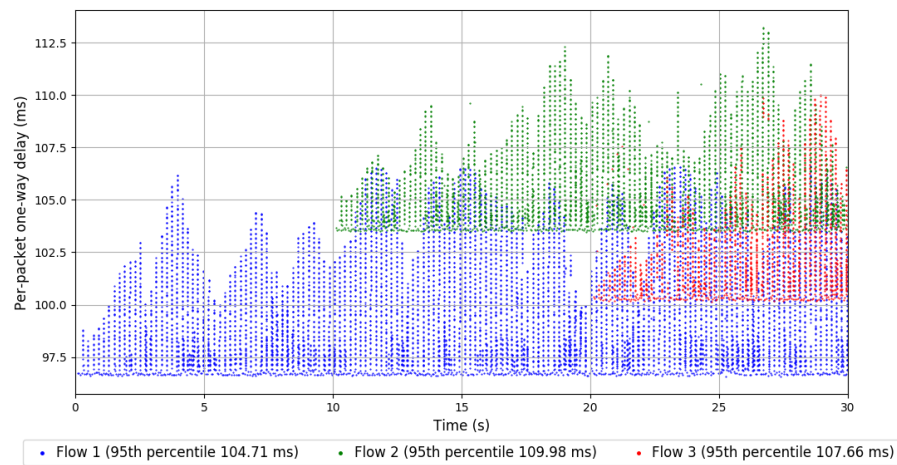
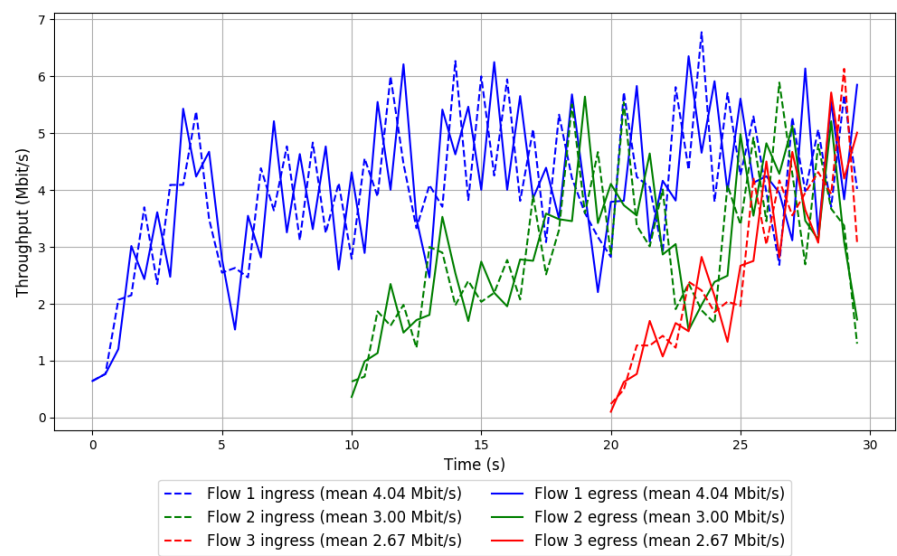


Run 2: Statistics of Sprout

Start at: 2018-04-24 21:19:41
End at: 2018-04-24 21:20:11
Local clock offset: -5.768 ms
Remote clock offset: 4.713 ms

```
# Below is generated by plot.py at 2018-04-25 01:01:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 6.92 Mbit/s
95th percentile per-packet one-way delay: 108.282 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 4.04 Mbit/s
95th percentile per-packet one-way delay: 104.714 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 3.00 Mbit/s
95th percentile per-packet one-way delay: 109.979 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 2.67 Mbit/s
95th percentile per-packet one-way delay: 107.661 ms
Loss rate: 0.00%
```

Run 2: Report of Sprout — Data Link

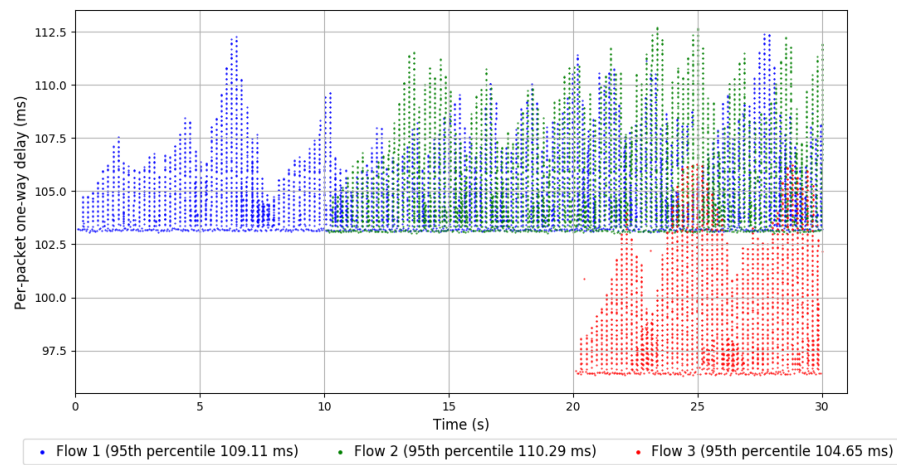
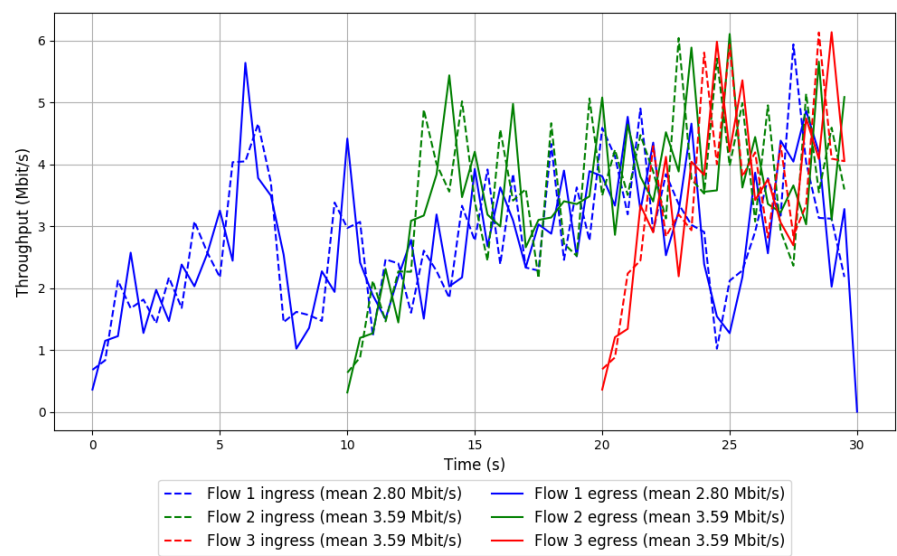


Run 3: Statistics of Sprout

Start at: 2018-04-24 21:42:17
End at: 2018-04-24 21:42:47
Local clock offset: -4.979 ms
Remote clock offset: 3.836 ms

```
# Below is generated by plot.py at 2018-04-25 01:01:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 6.37 Mbit/s
95th percentile per-packet one-way delay: 109.571 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.80 Mbit/s
95th percentile per-packet one-way delay: 109.115 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 3.59 Mbit/s
95th percentile per-packet one-way delay: 110.286 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 3.59 Mbit/s
95th percentile per-packet one-way delay: 104.646 ms
Loss rate: 0.00%
```

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

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

End at: 2018-04-24 22:05:17

Local clock offset: -4.884 ms

Remote clock offset: 3.5 ms

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 7.48 Mbit/s

95th percentile per-packet one-way delay: 106.202 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 4.08 Mbit/s

95th percentile per-packet one-way delay: 102.807 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 3.06 Mbit/s

95th percentile per-packet one-way delay: 108.555 ms

Loss rate: 0.00%

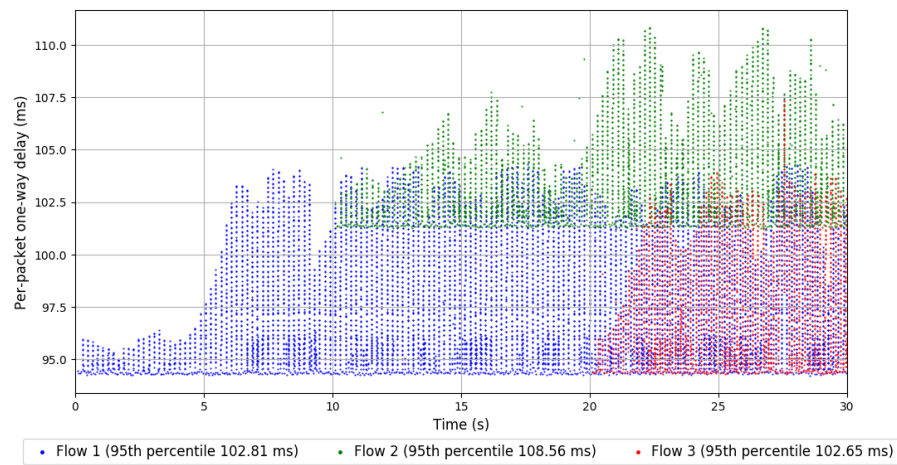
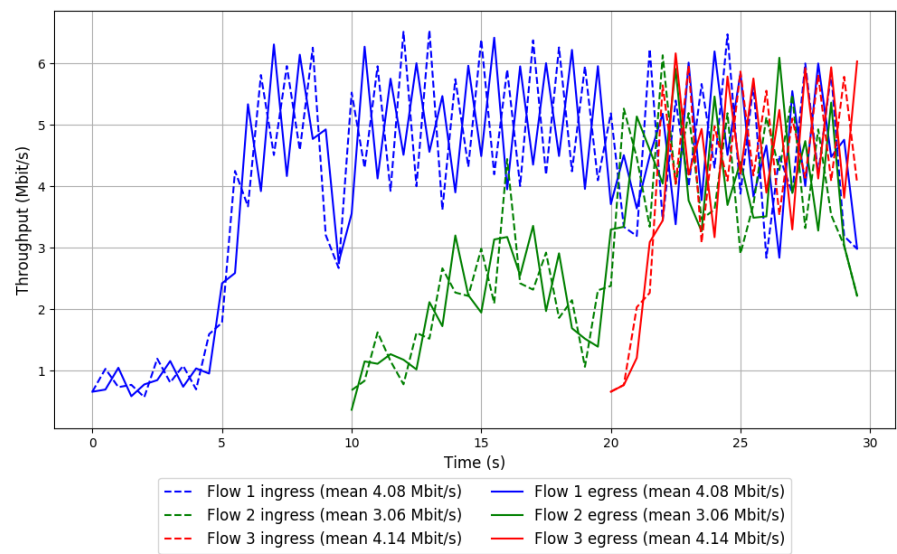
-- Flow 3:

Average throughput: 4.14 Mbit/s

95th percentile per-packet one-way delay: 102.653 ms

Loss rate: 0.00%

Run 4: Report of Sprout — Data Link

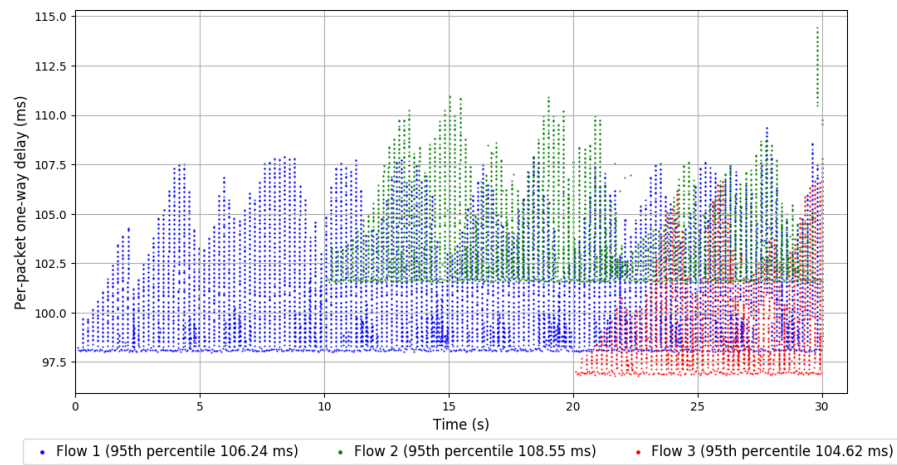
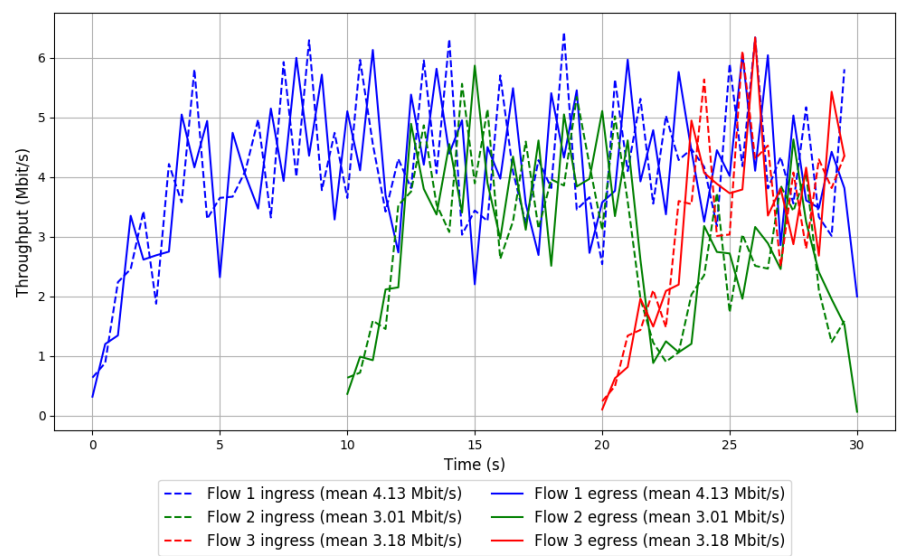


Run 5: Statistics of Sprout

Start at: 2018-04-24 22:27:20
End at: 2018-04-24 22:27:50
Local clock offset: -4.626 ms
Remote clock offset: 4.301 ms

```
# Below is generated by plot.py at 2018-04-25 01:01:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 7.17 Mbit/s
95th percentile per-packet one-way delay: 107.051 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 4.13 Mbit/s
95th percentile per-packet one-way delay: 106.243 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 3.01 Mbit/s
95th percentile per-packet one-way delay: 108.546 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 3.18 Mbit/s
95th percentile per-packet one-way delay: 104.618 ms
Loss rate: 0.00%
```

Run 5: Report of Sprout — Data Link

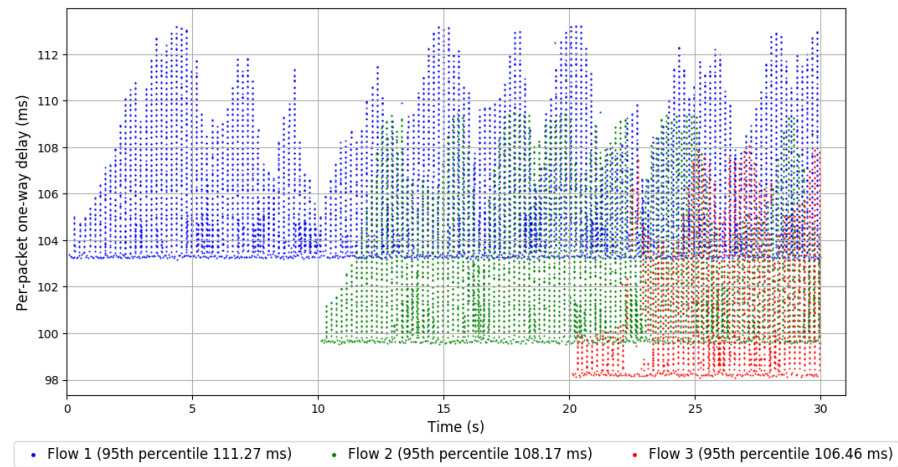
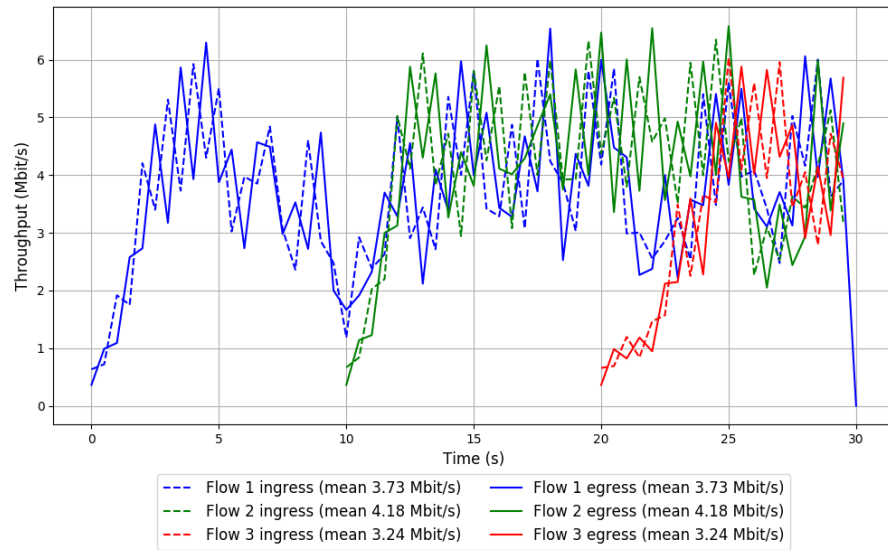


Run 6: Statistics of Sprout

Start at: 2018-04-24 22:49:50
End at: 2018-04-24 22:50:20
Local clock offset: -5.346 ms
Remote clock offset: 7.823 ms

```
# Below is generated by plot.py at 2018-04-25 01:01:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 7.57 Mbit/s
95th percentile per-packet one-way delay: 110.280 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 3.73 Mbit/s
95th percentile per-packet one-way delay: 111.272 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 4.18 Mbit/s
95th percentile per-packet one-way delay: 108.169 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 3.24 Mbit/s
95th percentile per-packet one-way delay: 106.456 ms
Loss rate: 0.00%
```

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-04-24 23:12:26

End at: 2018-04-24 23:12:56

Local clock offset: -5.152 ms

Remote clock offset: 7.344 ms

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 6.63 Mbit/s

95th percentile per-packet one-way delay: 113.115 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 3.09 Mbit/s

95th percentile per-packet one-way delay: 109.798 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 3.70 Mbit/s

95th percentile per-packet one-way delay: 114.815 ms

Loss rate: 0.00%

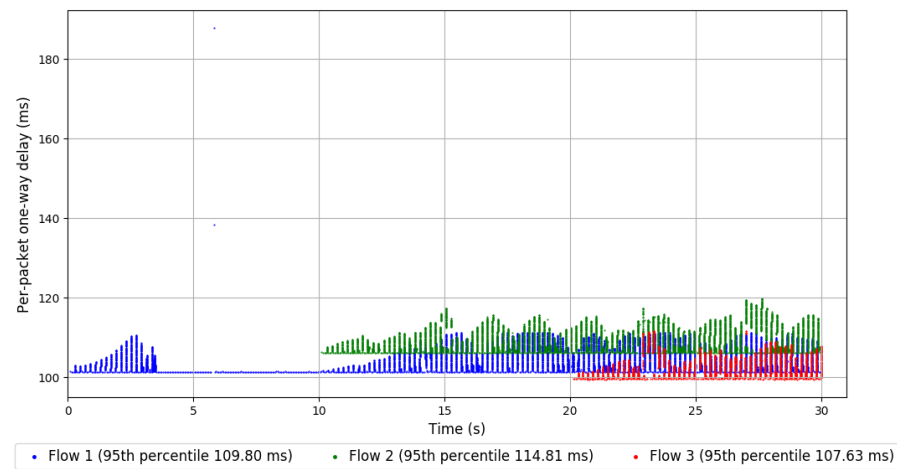
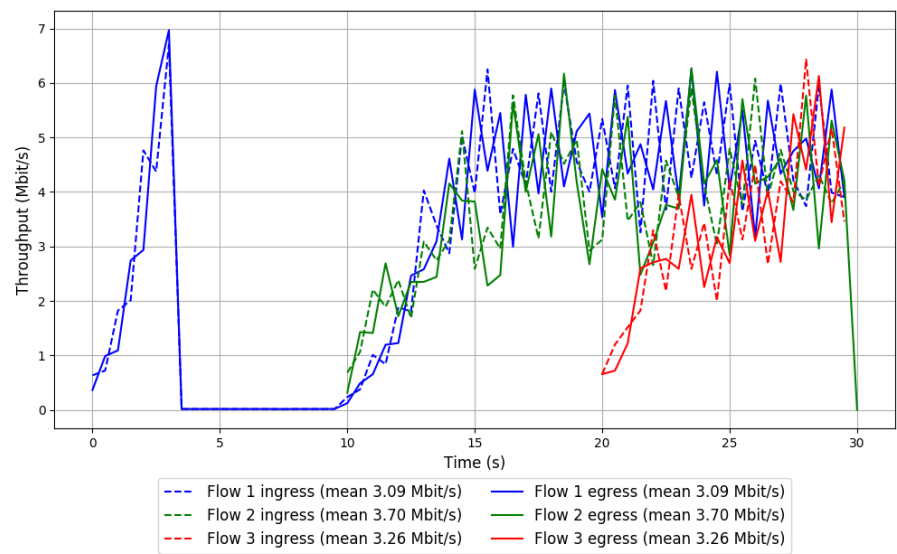
-- Flow 3:

Average throughput: 3.26 Mbit/s

95th percentile per-packet one-way delay: 107.628 ms

Loss rate: 0.00%

Run 7: Report of Sprout — Data Link

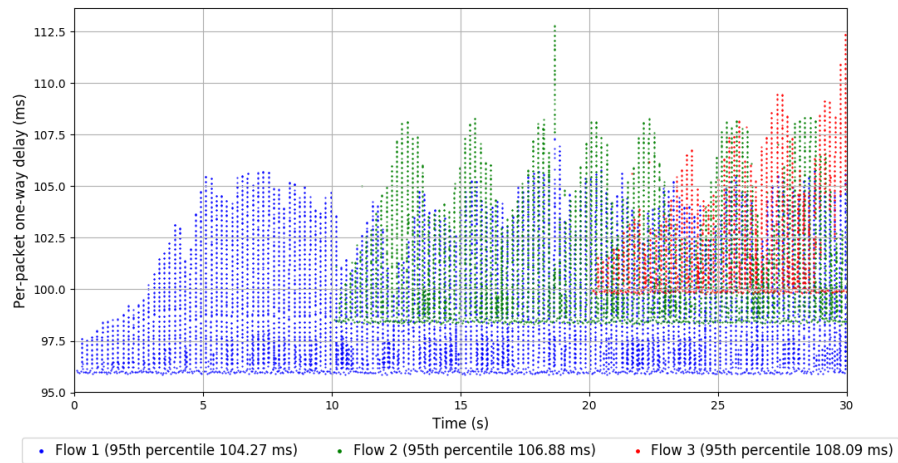
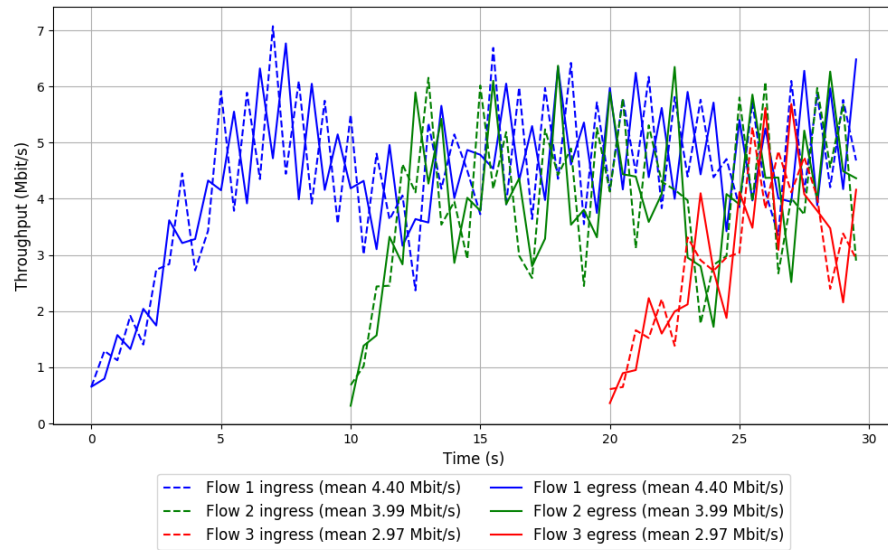


Run 8: Statistics of Sprout

Start at: 2018-04-24 23:35:01
End at: 2018-04-24 23:35:31
Local clock offset: -5.824 ms
Remote clock offset: 3.112 ms

```
# Below is generated by plot.py at 2018-04-25 01:01:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.03 Mbit/s
95th percentile per-packet one-way delay: 106.009 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 4.40 Mbit/s
95th percentile per-packet one-way delay: 104.269 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 3.99 Mbit/s
95th percentile per-packet one-way delay: 106.884 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 2.97 Mbit/s
95th percentile per-packet one-way delay: 108.088 ms
Loss rate: 0.00%
```

Run 8: Report of Sprout — Data Link

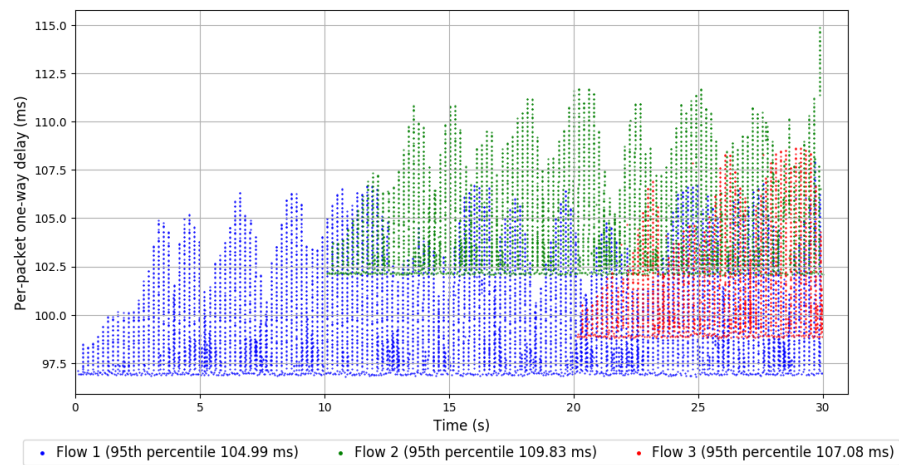
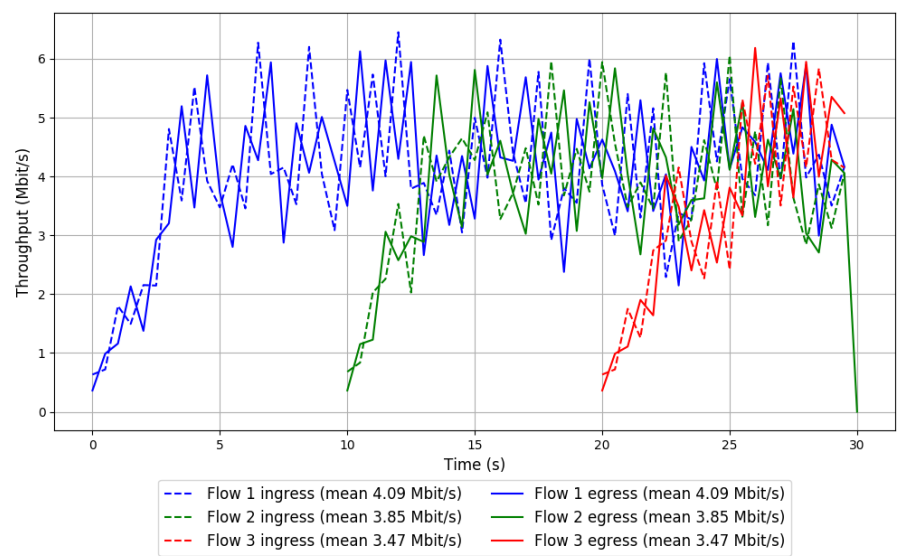


Run 9: Statistics of Sprout

Start at: 2018-04-24 23:57:16
End at: 2018-04-24 23:57:46
Local clock offset: -5.743 ms
Remote clock offset: 2.051 ms

```
# Below is generated by plot.py at 2018-04-25 01:01:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 7.79 Mbit/s
95th percentile per-packet one-way delay: 108.282 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 4.09 Mbit/s
95th percentile per-packet one-way delay: 104.988 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 3.85 Mbit/s
95th percentile per-packet one-way delay: 109.831 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 3.47 Mbit/s
95th percentile per-packet one-way delay: 107.076 ms
Loss rate: 0.00%
```

Run 9: Report of Sprout — Data Link

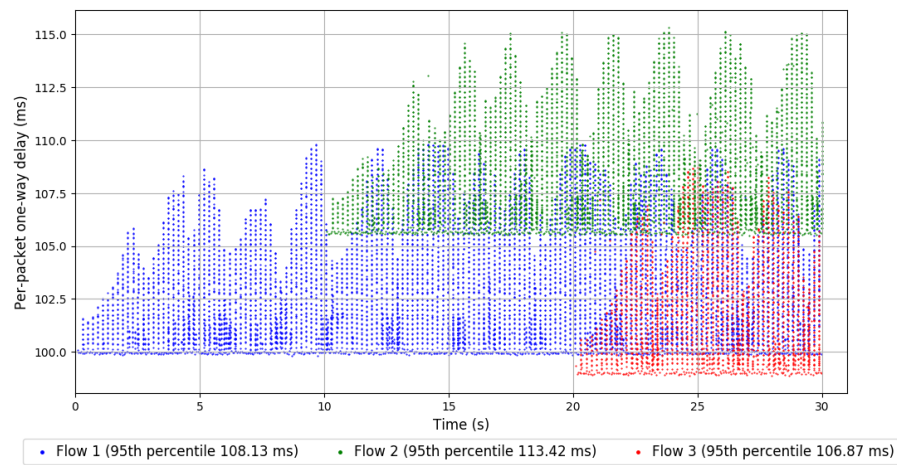
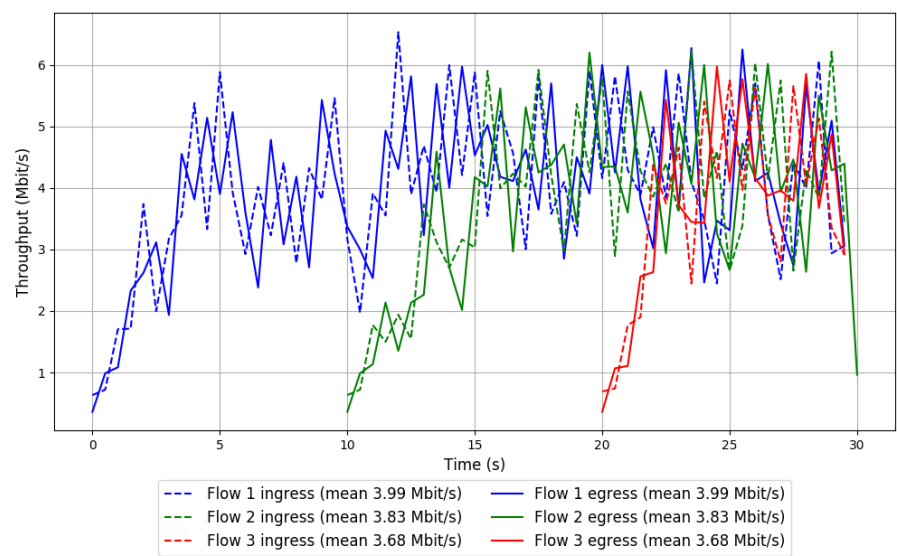


Run 10: Statistics of Sprout

Start at: 2018-04-25 00:19:53
End at: 2018-04-25 00:20:23
Local clock offset: -4.979 ms
Remote clock offset: 6.161 ms

```
# Below is generated by plot.py at 2018-04-25 01:01:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 7.74 Mbit/s
95th percentile per-packet one-way delay: 111.651 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 3.99 Mbit/s
95th percentile per-packet one-way delay: 108.131 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 3.83 Mbit/s
95th percentile per-packet one-way delay: 113.422 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 3.68 Mbit/s
95th percentile per-packet one-way delay: 106.872 ms
Loss rate: 0.00%
```

Run 10: Report of Sprout — Data Link

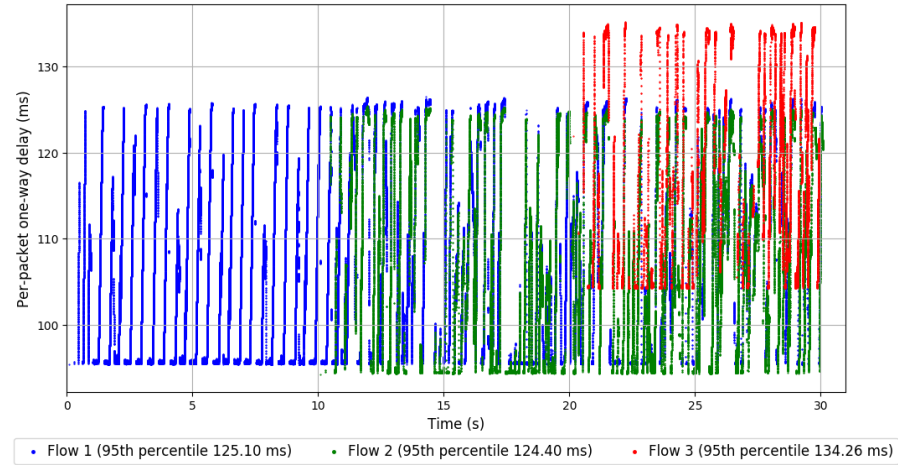
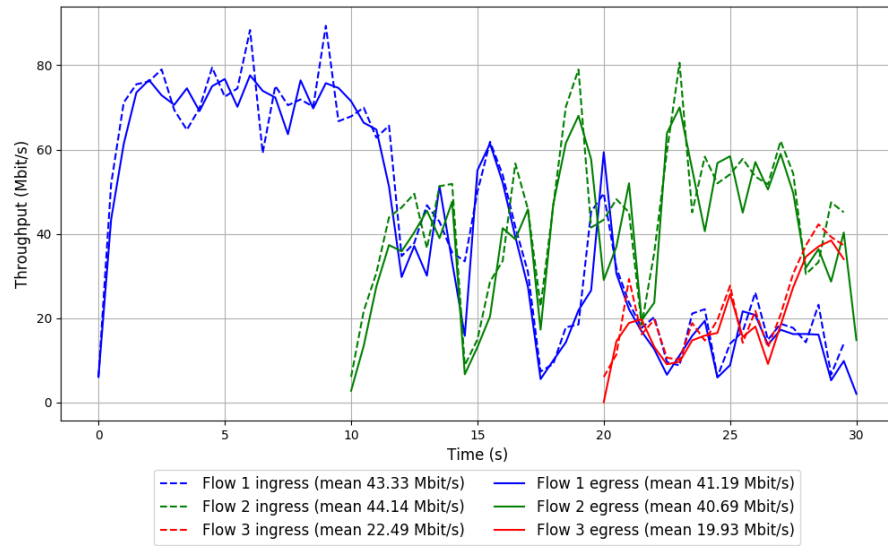



```
Run 1: Statistics of TaoVA-100x

Start at: 2018-04-24 21:05:19
End at: 2018-04-24 21:05:49
Local clock offset: -4.855 ms
Remote clock offset: 4.635 ms

# Below is generated by plot.py at 2018-04-25 01:02:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 74.72 Mbit/s
95th percentile per-packet one-way delay: 125.246 ms
Loss rate: 6.50%
-- Flow 1:
Average throughput: 41.19 Mbit/s
95th percentile per-packet one-way delay: 125.097 ms
Loss rate: 4.84%
-- Flow 2:
Average throughput: 40.69 Mbit/s
95th percentile per-packet one-way delay: 124.398 ms
Loss rate: 7.71%
-- Flow 3:
Average throughput: 19.93 Mbit/s
95th percentile per-packet one-way delay: 134.265 ms
Loss rate: 11.42%
```

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



Run 2: Statistics of TaoVA-100x

Start at: 2018-04-24 21:27:49

End at: 2018-04-24 21:28:19

Local clock offset: -5.707 ms

Remote clock offset: 7.609 ms

Below is generated by plot.py at 2018-04-25 01:02:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 73.09 Mbit/s

95th percentile per-packet one-way delay: 131.881 ms

Loss rate: 5.53%

-- Flow 1:

Average throughput: 43.05 Mbit/s

95th percentile per-packet one-way delay: 131.332 ms

Loss rate: 4.82%

-- Flow 2:

Average throughput: 27.94 Mbit/s

95th percentile per-packet one-way delay: 129.488 ms

Loss rate: 6.91%

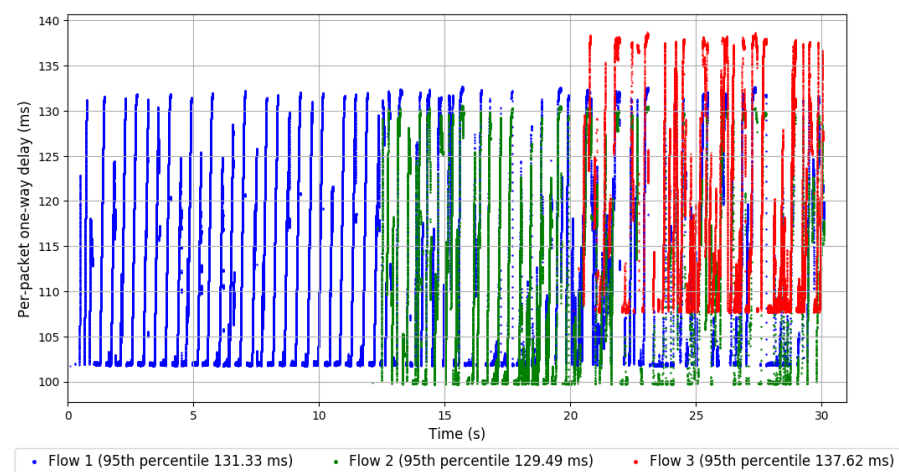
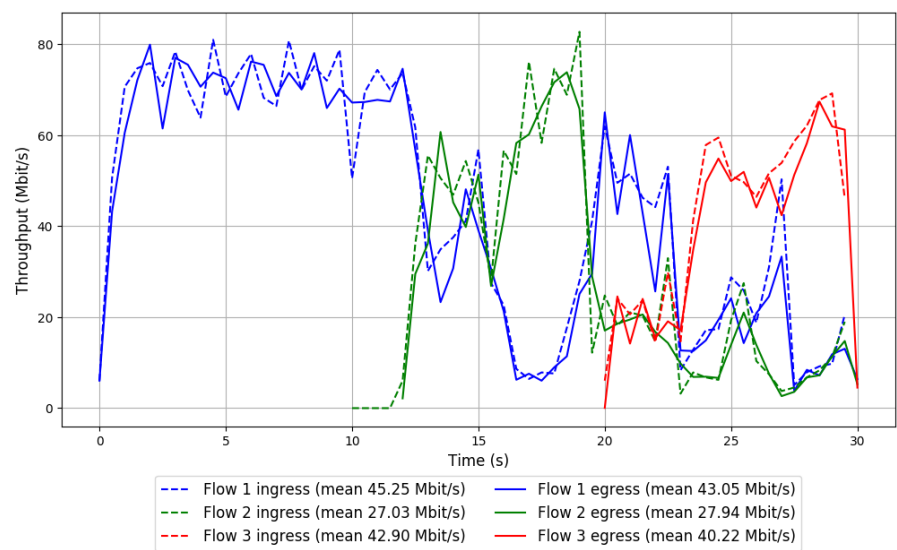
-- Flow 3:

Average throughput: 40.22 Mbit/s

95th percentile per-packet one-way delay: 137.625 ms

Loss rate: 6.06%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-04-24 21:50:24

End at: 2018-04-24 21:50:54

Local clock offset: -4.173 ms

Remote clock offset: 3.793 ms

Below is generated by plot.py at 2018-04-25 01:02:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 71.33 Mbit/s

95th percentile per-packet one-way delay: 130.481 ms

Loss rate: 5.66%

-- Flow 1:

Average throughput: 41.16 Mbit/s

95th percentile per-packet one-way delay: 130.464 ms

Loss rate: 4.16%

-- Flow 2:

Average throughput: 25.54 Mbit/s

95th percentile per-packet one-way delay: 130.897 ms

Loss rate: 9.63%

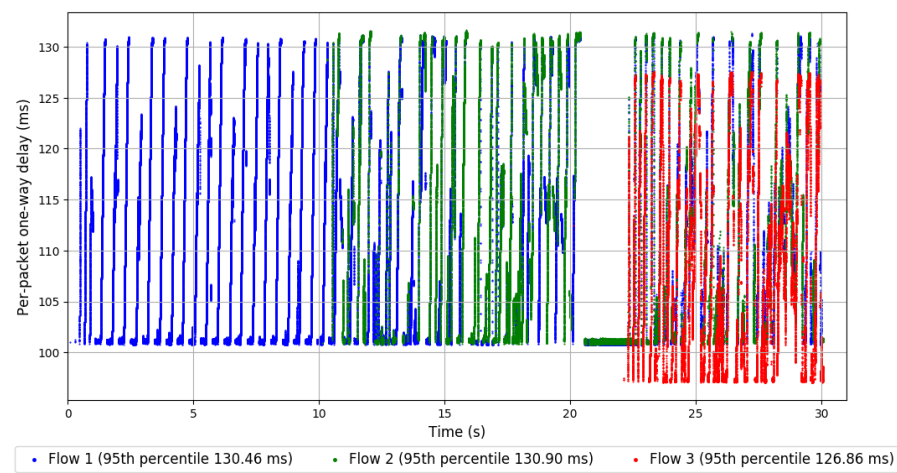
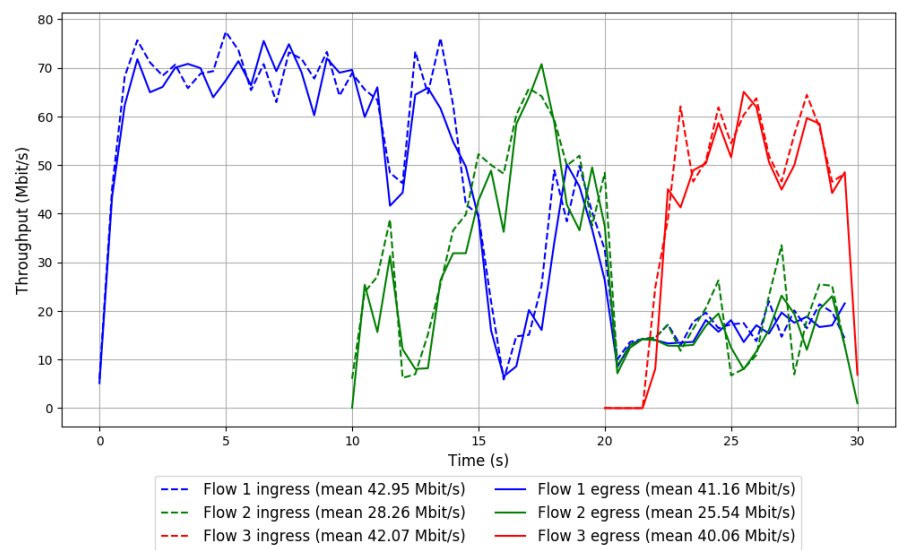
-- Flow 3:

Average throughput: 40.06 Mbit/s

95th percentile per-packet one-way delay: 126.859 ms

Loss rate: 4.92%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-04-24 22:12:55

End at: 2018-04-24 22:13:25

Local clock offset: -4.345 ms

Remote clock offset: 8.134 ms

Below is generated by plot.py at 2018-04-25 01:02:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 76.04 Mbit/s

95th percentile per-packet one-way delay: 131.959 ms

Loss rate: 5.73%

-- Flow 1:

Average throughput: 40.33 Mbit/s

95th percentile per-packet one-way delay: 131.704 ms

Loss rate: 3.53%

-- Flow 2:

Average throughput: 40.42 Mbit/s

95th percentile per-packet one-way delay: 132.302 ms

Loss rate: 7.21%

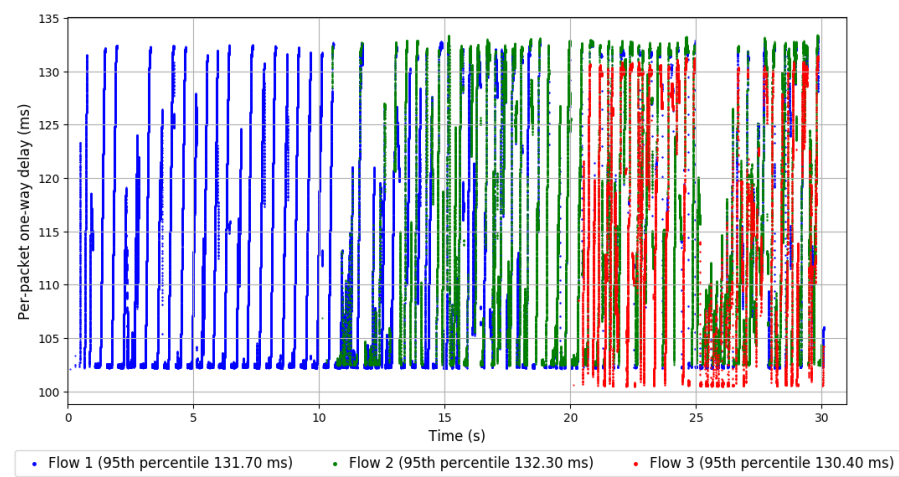
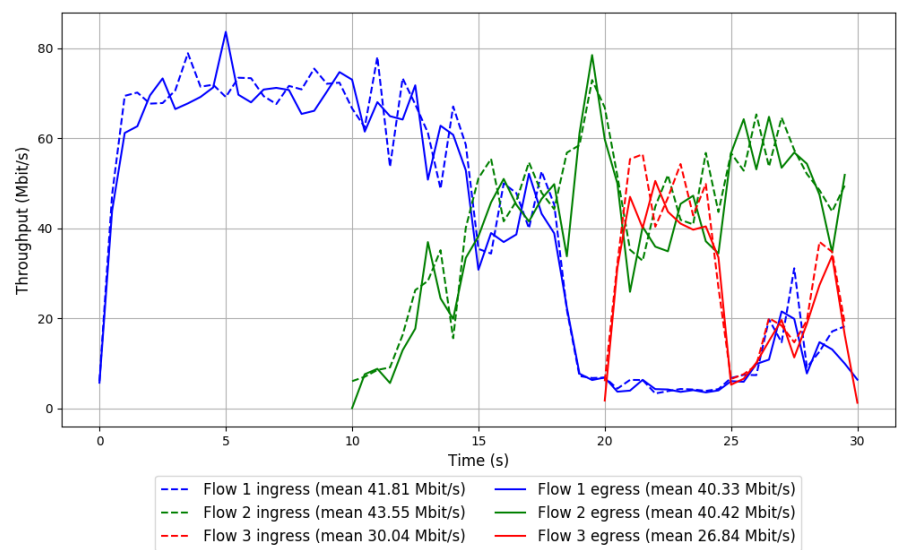
-- Flow 3:

Average throughput: 26.84 Mbit/s

95th percentile per-packet one-way delay: 130.395 ms

Loss rate: 10.61%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-04-24 22:35:27

End at: 2018-04-24 22:35:57

Local clock offset: -4.663 ms

Remote clock offset: 7.85 ms

Below is generated by plot.py at 2018-04-25 01:03:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 76.28 Mbit/s

95th percentile per-packet one-way delay: 135.151 ms

Loss rate: 5.50%

-- Flow 1:

Average throughput: 47.01 Mbit/s

95th percentile per-packet one-way delay: 135.192 ms

Loss rate: 4.50%

-- Flow 2:

Average throughput: 34.84 Mbit/s

95th percentile per-packet one-way delay: 128.019 ms

Loss rate: 6.05%

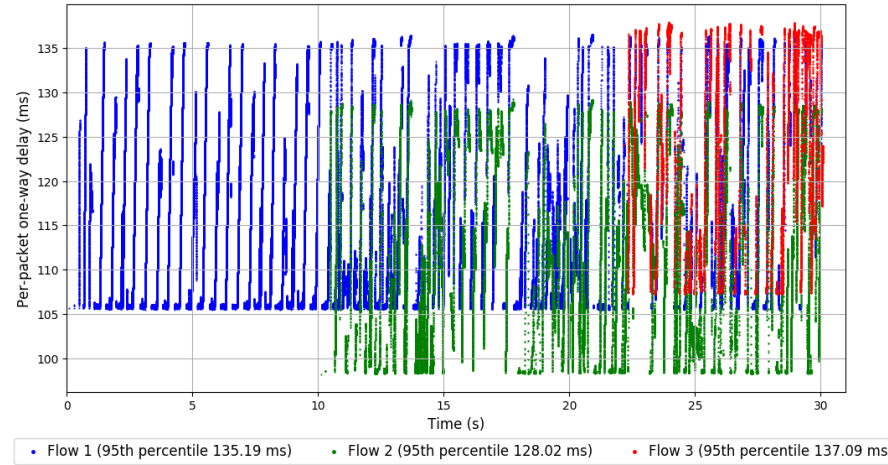
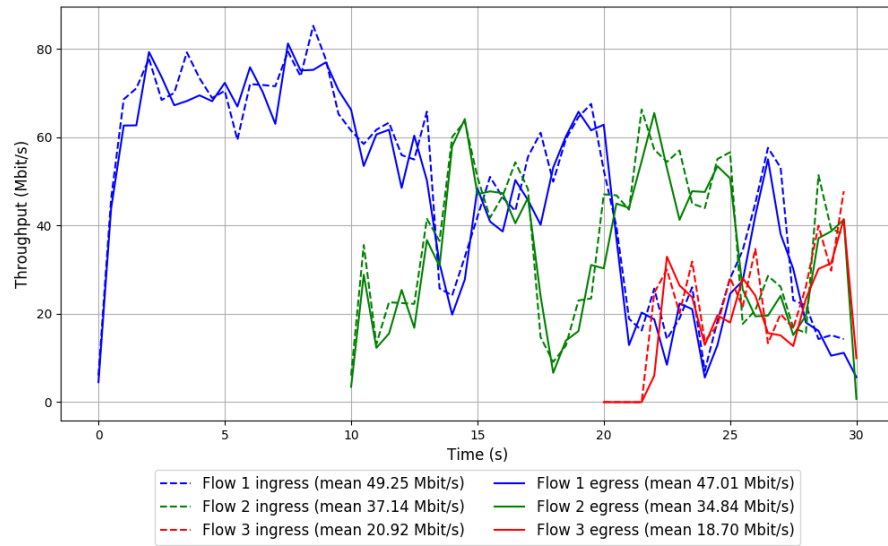
-- Flow 3:

Average throughput: 18.70 Mbit/s

95th percentile per-packet one-way delay: 137.093 ms

Loss rate: 10.64%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-04-24 22:58:01

End at: 2018-04-24 22:58:31

Local clock offset: -4.443 ms

Remote clock offset: 7.692 ms

Below is generated by plot.py at 2018-04-25 01:03:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 75.31 Mbit/s

95th percentile per-packet one-way delay: 131.189 ms

Loss rate: 6.94%

-- Flow 1:

Average throughput: 46.75 Mbit/s

95th percentile per-packet one-way delay: 128.508 ms

Loss rate: 5.36%

-- Flow 2:

Average throughput: 39.40 Mbit/s

95th percentile per-packet one-way delay: 132.183 ms

Loss rate: 8.82%

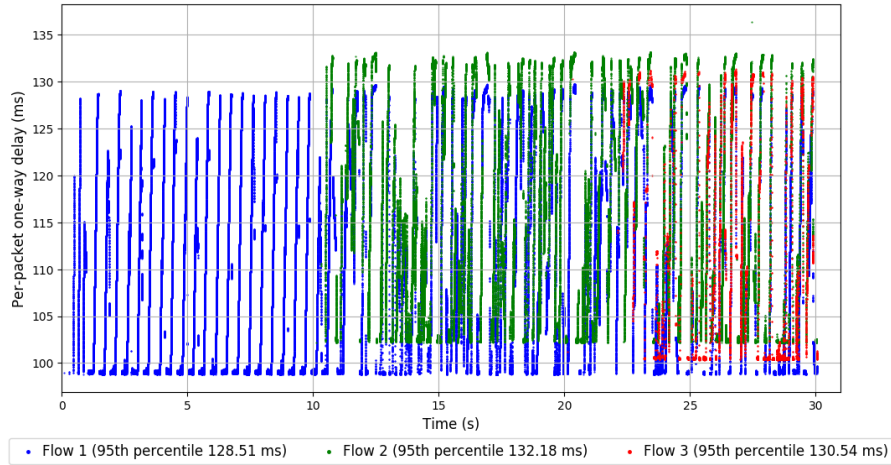
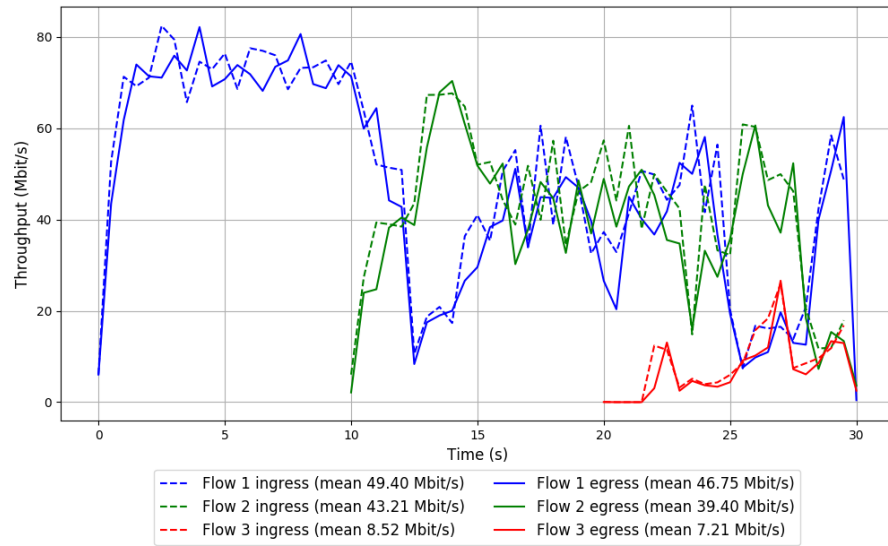
-- Flow 3:

Average throughput: 7.21 Mbit/s

95th percentile per-packet one-way delay: 130.538 ms

Loss rate: 15.41%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-04-24 23:20:39

End at: 2018-04-24 23:21:09

Local clock offset: -4.328 ms

Remote clock offset: 7.983 ms

Below is generated by plot.py at 2018-04-25 01:03:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 73.75 Mbit/s

95th percentile per-packet one-way delay: 132.220 ms

Loss rate: 7.63%

-- Flow 1:

Average throughput: 45.98 Mbit/s

95th percentile per-packet one-way delay: 132.600 ms

Loss rate: 5.82%

-- Flow 2:

Average throughput: 25.81 Mbit/s

95th percentile per-packet one-way delay: 130.110 ms

Loss rate: 10.46%

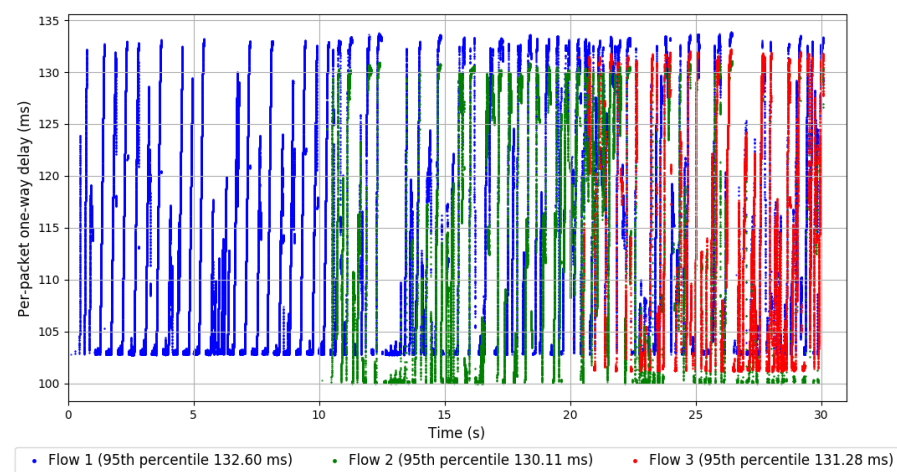
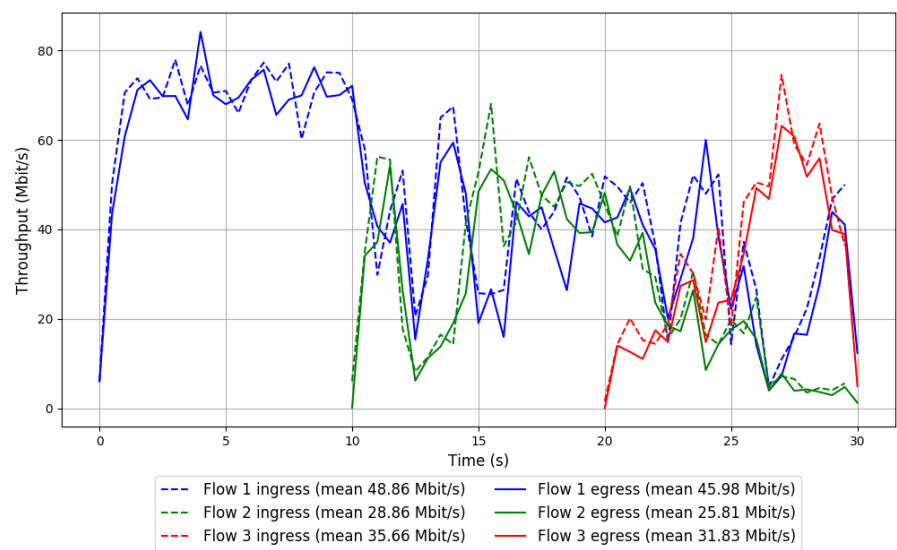
-- Flow 3:

Average throughput: 31.83 Mbit/s

95th percentile per-packet one-way delay: 131.281 ms

Loss rate: 10.53%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-04-24 23:42:54

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

Local clock offset: -4.234 ms

Remote clock offset: 7.686 ms

Below is generated by plot.py at 2018-04-25 01:03:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 67.63 Mbit/s

95th percentile per-packet one-way delay: 133.128 ms

Loss rate: 6.04%

-- Flow 1:

Average throughput: 43.11 Mbit/s

95th percentile per-packet one-way delay: 132.400 ms

Loss rate: 4.01%

-- Flow 2:

Average throughput: 21.46 Mbit/s

95th percentile per-packet one-way delay: 138.265 ms

Loss rate: 10.10%

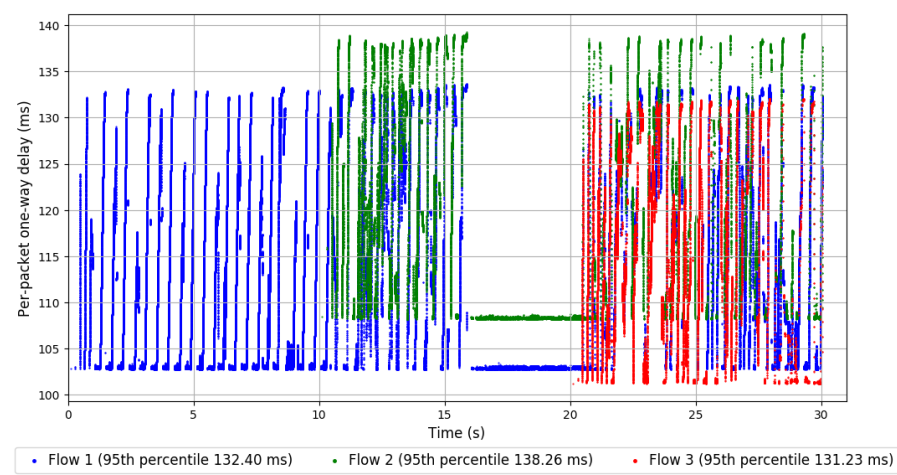
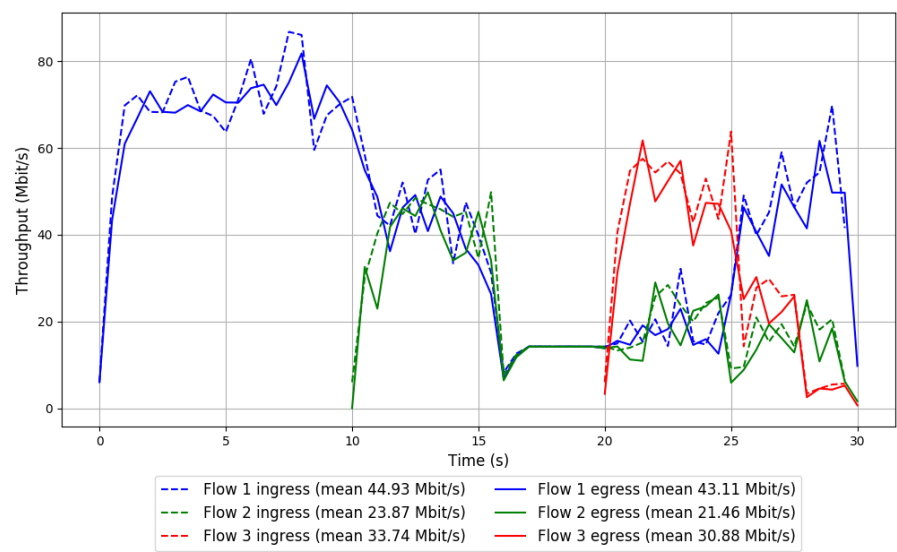
-- Flow 3:

Average throughput: 30.88 Mbit/s

95th percentile per-packet one-way delay: 131.227 ms

Loss rate: 8.44%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-04-25 00:05:29

End at: 2018-04-25 00:05:59

Local clock offset: -4.966 ms

Remote clock offset: 2.764 ms

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 74.32 Mbit/s

95th percentile per-packet one-way delay: 127.649 ms

Loss rate: 7.23%

-- Flow 1:

Average throughput: 40.08 Mbit/s

95th percentile per-packet one-way delay: 124.974 ms

Loss rate: 5.44%

-- Flow 2:

Average throughput: 26.88 Mbit/s

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

Loss rate: 11.62%

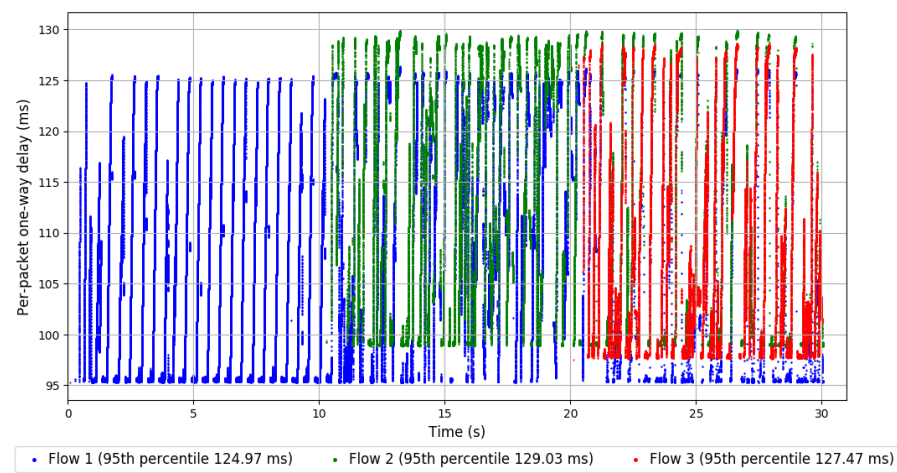
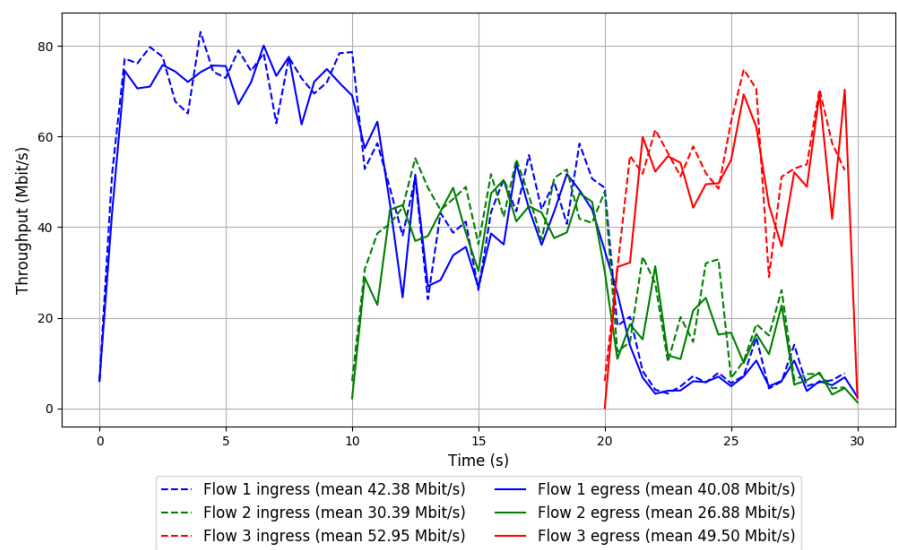
-- Flow 3:

Average throughput: 49.50 Mbit/s

95th percentile per-packet one-way delay: 127.469 ms

Loss rate: 6.47%

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



Run 10: Statistics of TaoVA-100x

Start at: 2018-04-25 00:27:47

End at: 2018-04-25 00:28:17

Local clock offset: -4.925 ms

Remote clock offset: 3.293 ms

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 75.63 Mbit/s

95th percentile per-packet one-way delay: 128.187 ms

Loss rate: 7.34%

-- Flow 1:

Average throughput: 46.09 Mbit/s

95th percentile per-packet one-way delay: 127.571 ms

Loss rate: 5.23%

-- Flow 2:

Average throughput: 33.42 Mbit/s

95th percentile per-packet one-way delay: 128.909 ms

Loss rate: 10.00%

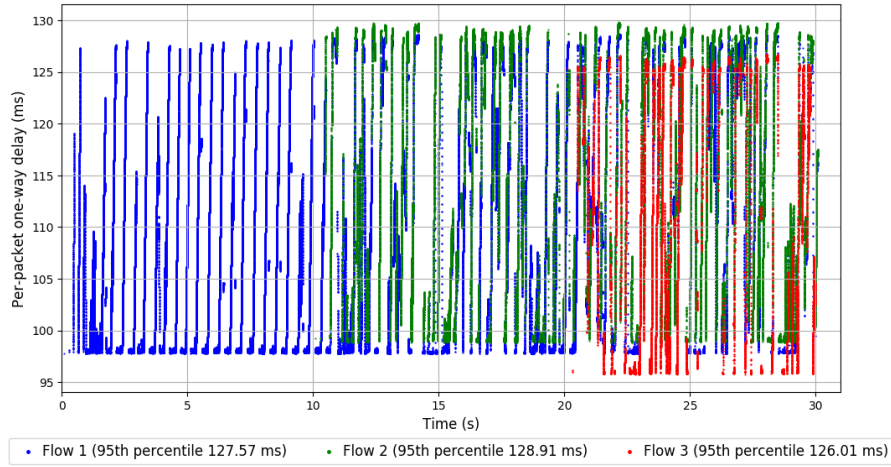
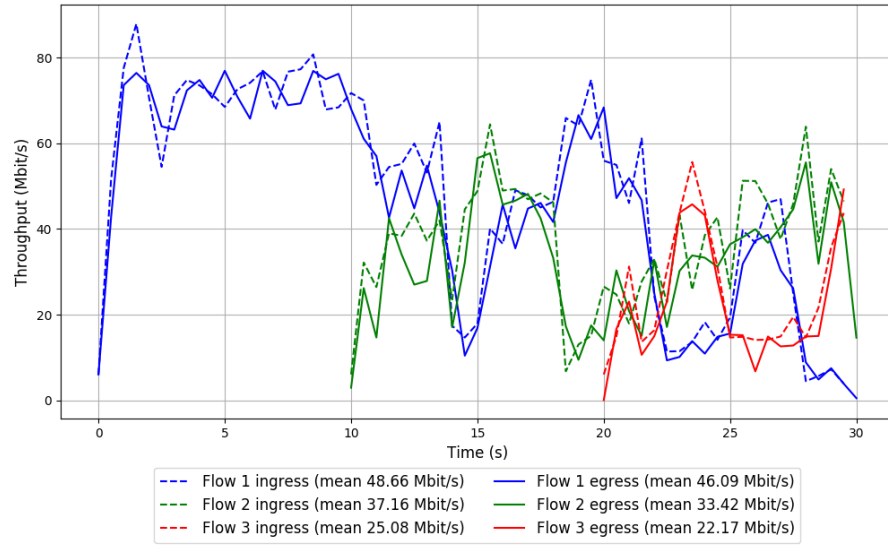
-- Flow 3:

Average throughput: 22.17 Mbit/s

95th percentile per-packet one-way delay: 126.010 ms

Loss rate: 11.81%

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



Run 1: Statistics of TCP Vegas

Start at: 2018-04-24 21:04:02

End at: 2018-04-24 21:04:32

Local clock offset: -4.91 ms

Remote clock offset: 8.498 ms

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 53.84 Mbit/s

95th percentile per-packet one-way delay: 112.784 ms

Loss rate: 0.77%

-- Flow 1:

Average throughput: 23.56 Mbit/s

95th percentile per-packet one-way delay: 109.028 ms

Loss rate: 0.61%

-- Flow 2:

Average throughput: 28.09 Mbit/s

95th percentile per-packet one-way delay: 115.925 ms

Loss rate: 0.71%

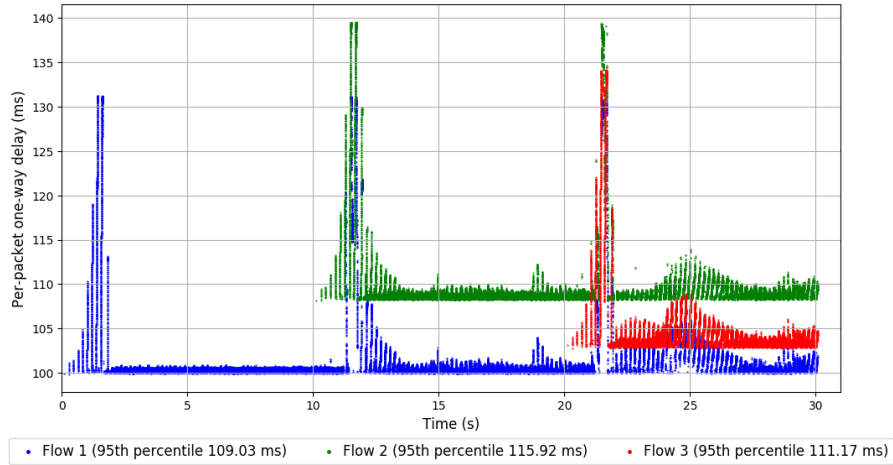
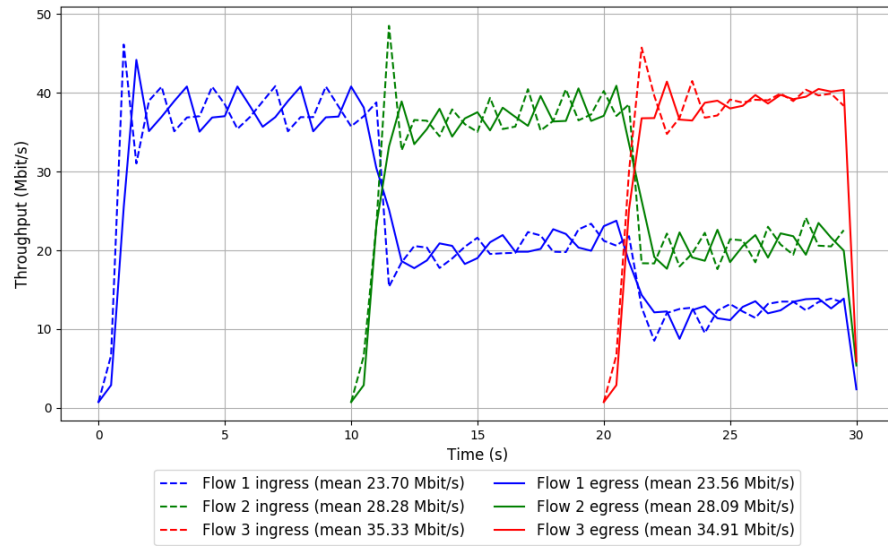
-- Flow 3:

Average throughput: 34.91 Mbit/s

95th percentile per-packet one-way delay: 111.171 ms

Loss rate: 1.20%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-04-24 21:26:32

End at: 2018-04-24 21:27:02

Local clock offset: -4.9 ms

Remote clock offset: 4.741 ms

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 55.61 Mbit/s

95th percentile per-packet one-way delay: 110.010 ms

Loss rate: 0.69%

-- Flow 1:

Average throughput: 24.53 Mbit/s

95th percentile per-packet one-way delay: 110.655 ms

Loss rate: 0.52%

-- Flow 2:

Average throughput: 29.48 Mbit/s

95th percentile per-packet one-way delay: 109.824 ms

Loss rate: 0.61%

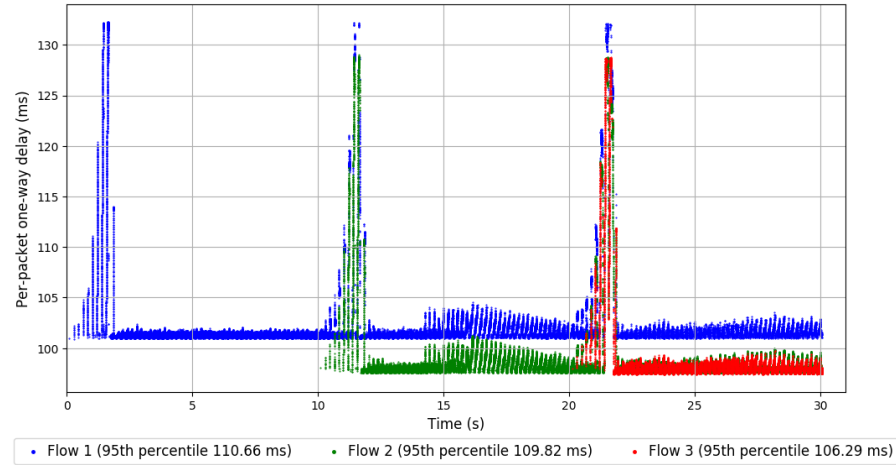
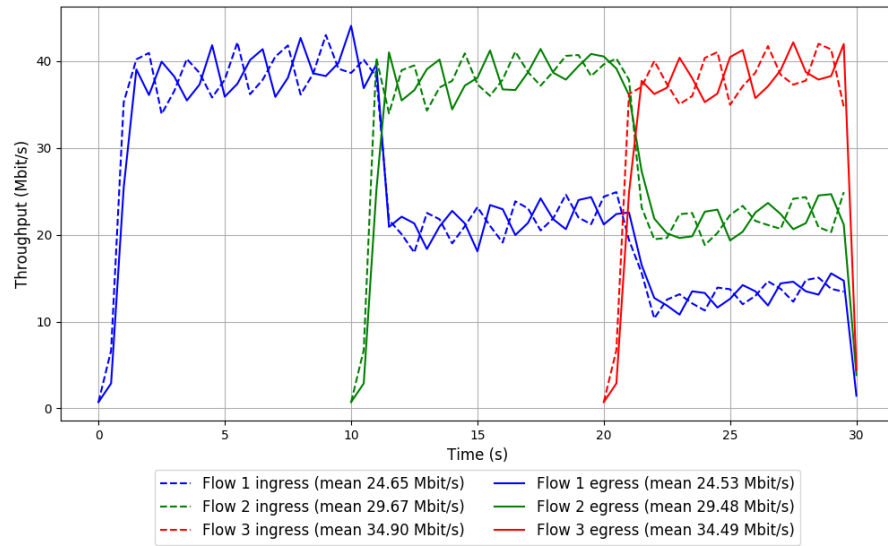
-- Flow 3:

Average throughput: 34.49 Mbit/s

95th percentile per-packet one-way delay: 106.291 ms

Loss rate: 1.19%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-04-24 21:49:07

End at: 2018-04-24 21:49:37

Local clock offset: -5.645 ms

Remote clock offset: 4.618 ms

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 54.04 Mbit/s

95th percentile per-packet one-way delay: 110.422 ms

Loss rate: 0.69%

-- Flow 1:

Average throughput: 23.90 Mbit/s

95th percentile per-packet one-way delay: 115.324 ms

Loss rate: 0.55%

-- Flow 2:

Average throughput: 29.12 Mbit/s

95th percentile per-packet one-way delay: 106.235 ms

Loss rate: 0.63%

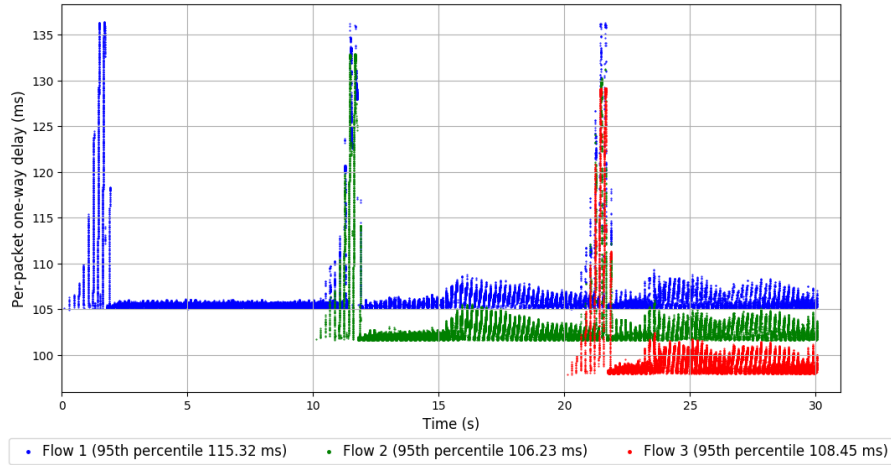
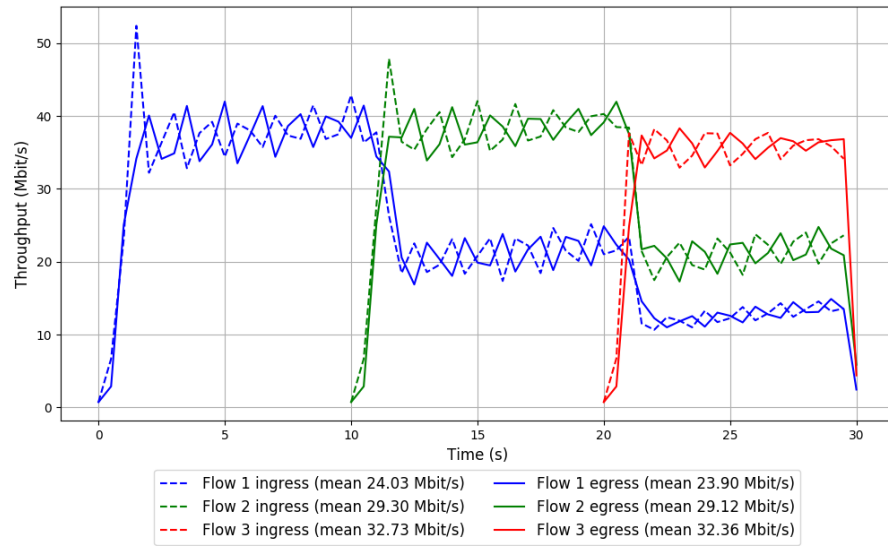
-- Flow 3:

Average throughput: 32.36 Mbit/s

95th percentile per-packet one-way delay: 108.450 ms

Loss rate: 1.13%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-04-24 22:11:38

End at: 2018-04-24 22:12:08

Local clock offset: -5.826 ms

Remote clock offset: 4.317 ms

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 47.89 Mbit/s

95th percentile per-packet one-way delay: 110.472 ms

Loss rate: 0.92%

-- Flow 1:

Average throughput: 16.43 Mbit/s

95th percentile per-packet one-way delay: 116.447 ms

Loss rate: 1.21%

-- Flow 2:

Average throughput: 29.75 Mbit/s

95th percentile per-packet one-way delay: 109.511 ms

Loss rate: 0.61%

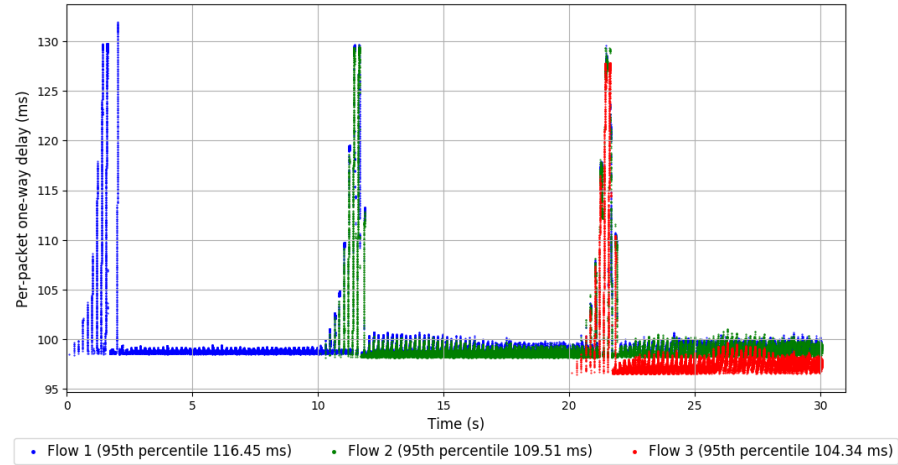
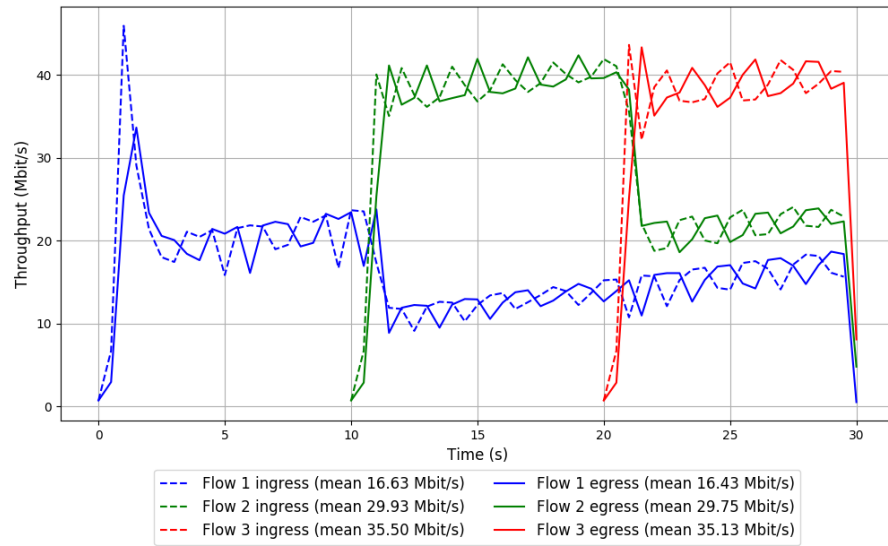
-- Flow 3:

Average throughput: 35.13 Mbit/s

95th percentile per-packet one-way delay: 104.341 ms

Loss rate: 1.04%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-04-24 22:34:09

End at: 2018-04-24 22:34:39

Local clock offset: -6.234 ms

Remote clock offset: 3.371 ms

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 57.06 Mbit/s

95th percentile per-packet one-way delay: 104.449 ms

Loss rate: 0.70%

-- Flow 1:

Average throughput: 25.32 Mbit/s

95th percentile per-packet one-way delay: 106.196 ms

Loss rate: 0.50%

-- Flow 2:

Average throughput: 30.27 Mbit/s

95th percentile per-packet one-way delay: 101.912 ms

Loss rate: 0.59%

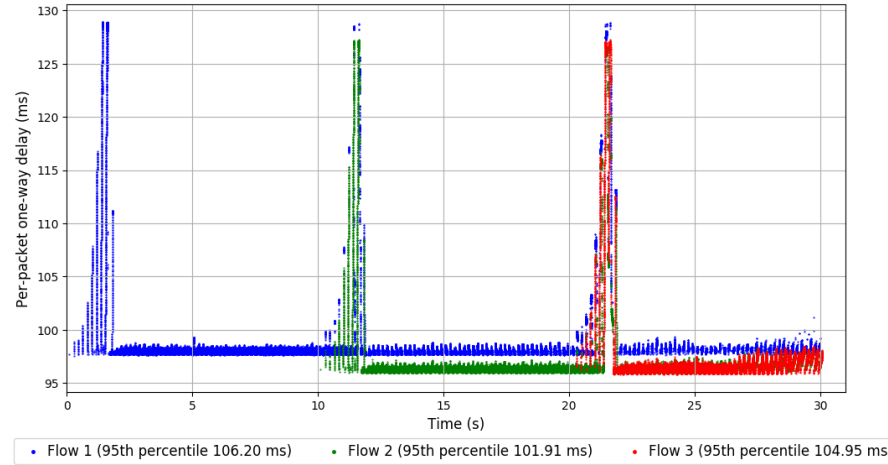
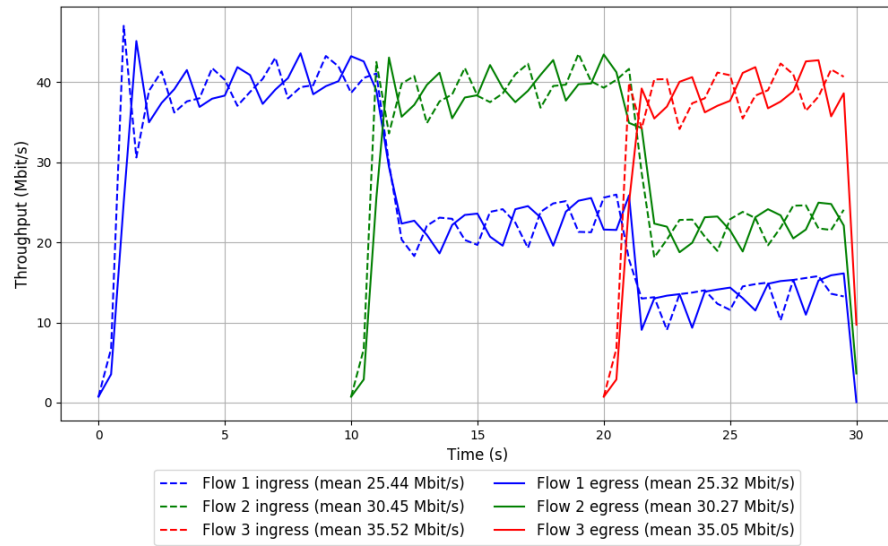
-- Flow 3:

Average throughput: 35.05 Mbit/s

95th percentile per-packet one-way delay: 104.952 ms

Loss rate: 1.33%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-04-24 22:56:43

End at: 2018-04-24 22:57:13

Local clock offset: -4.448 ms

Remote clock offset: 7.68 ms

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 60.41 Mbit/s

95th percentile per-packet one-way delay: 113.572 ms

Loss rate: 0.52%

-- Flow 1:

Average throughput: 33.60 Mbit/s

95th percentile per-packet one-way delay: 113.083 ms

Loss rate: 0.37%

-- Flow 2:

Average throughput: 29.93 Mbit/s

95th percentile per-packet one-way delay: 114.028 ms

Loss rate: 0.67%

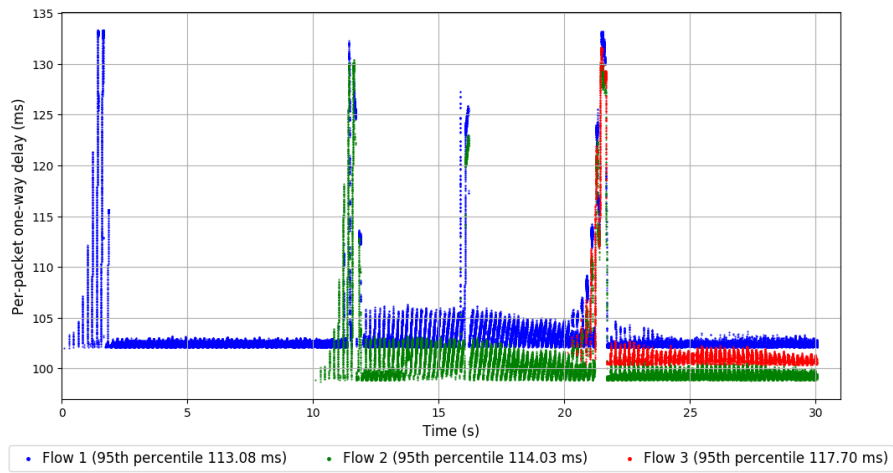
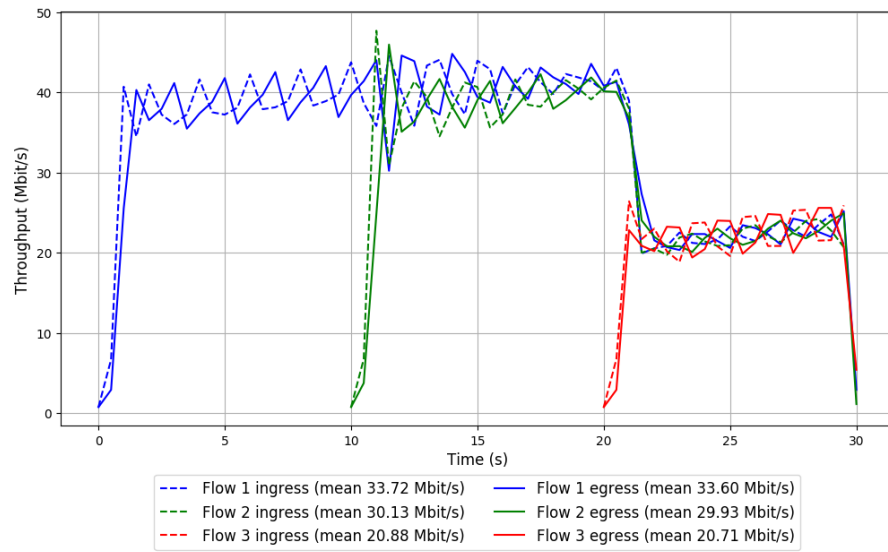
-- Flow 3:

Average throughput: 20.71 Mbit/s

95th percentile per-packet one-way delay: 117.701 ms

Loss rate: 0.83%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-04-24 23:19:21

End at: 2018-04-24 23:19:51

Local clock offset: -5.795 ms

Remote clock offset: 6.317 ms

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 56.83 Mbit/s

95th percentile per-packet one-way delay: 111.482 ms

Loss rate: 0.72%

-- Flow 1:

Average throughput: 25.16 Mbit/s

95th percentile per-packet one-way delay: 109.338 ms

Loss rate: 0.50%

-- Flow 2:

Average throughput: 30.14 Mbit/s

95th percentile per-packet one-way delay: 113.110 ms

Loss rate: 0.63%

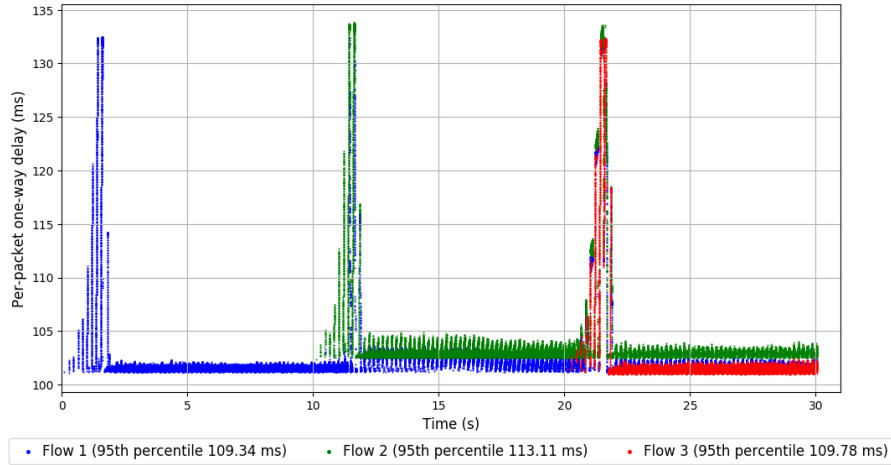
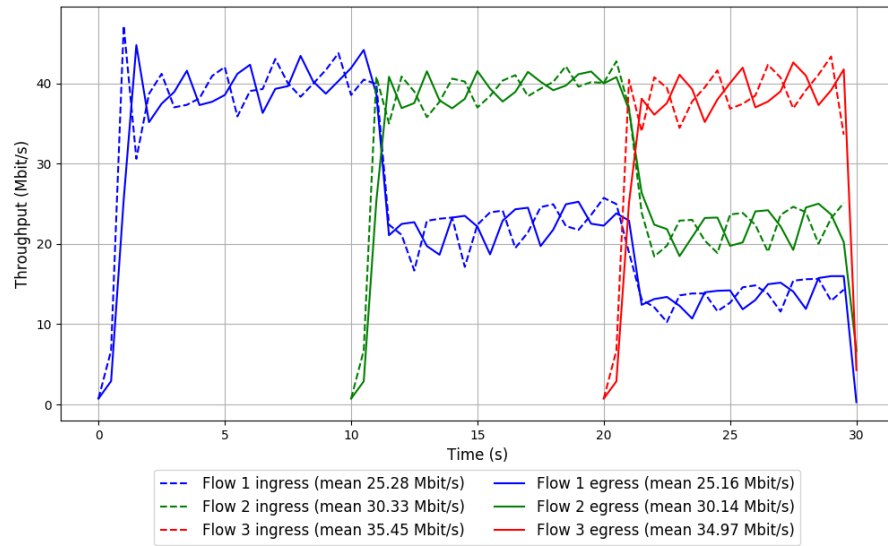
-- Flow 3:

Average throughput: 34.97 Mbit/s

95th percentile per-packet one-way delay: 109.779 ms

Loss rate: 1.35%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-04-24 23:41:37

End at: 2018-04-24 23:42:07

Local clock offset: -4.971 ms

Remote clock offset: 6.834 ms

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 51.31 Mbit/s

95th percentile per-packet one-way delay: 110.981 ms

Loss rate: 0.71%

-- Flow 1:

Average throughput: 23.08 Mbit/s

95th percentile per-packet one-way delay: 106.755 ms

Loss rate: 0.53%

-- Flow 2:

Average throughput: 25.88 Mbit/s

95th percentile per-packet one-way delay: 115.812 ms

Loss rate: 0.75%

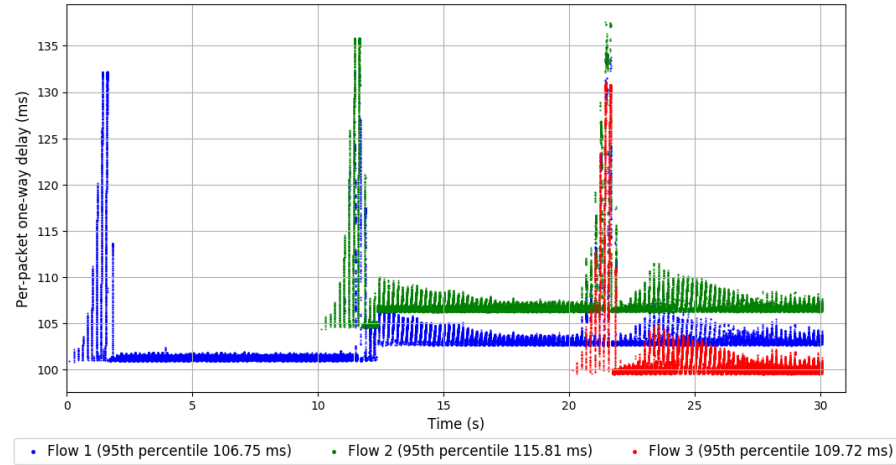
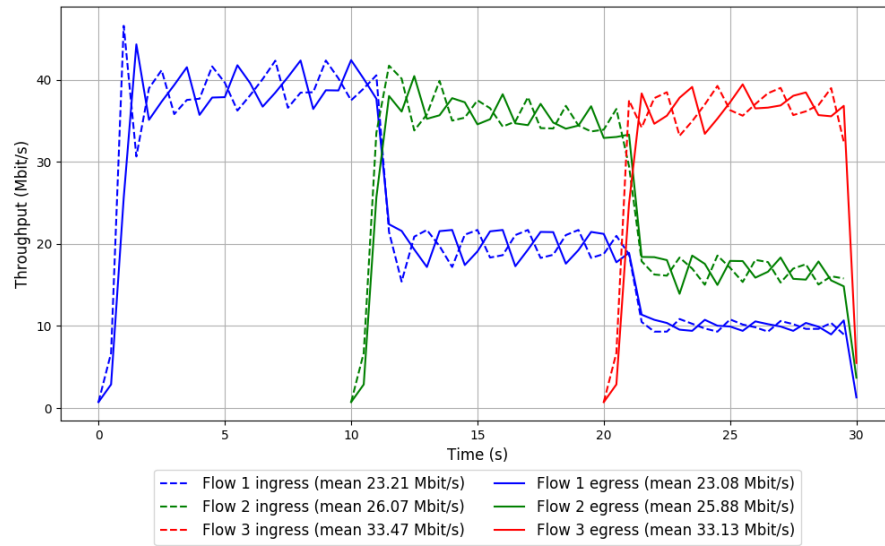
-- Flow 3:

Average throughput: 33.13 Mbit/s

95th percentile per-packet one-way delay: 109.721 ms

Loss rate: 1.02%

Run 8: Report of TCP Vegas — Data Link

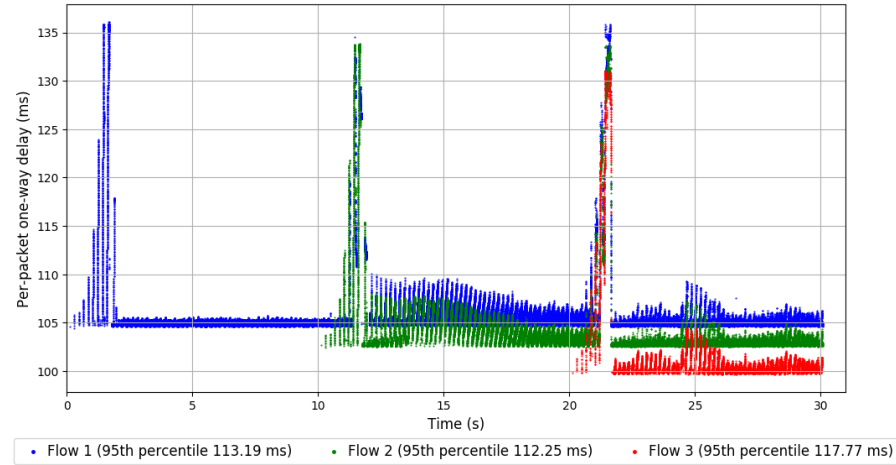
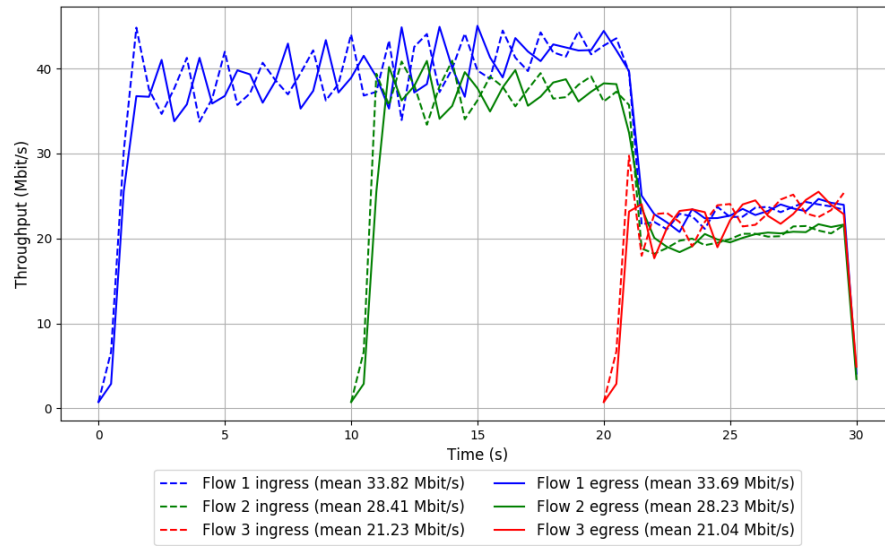


Run 9: Statistics of TCP Vegas

Start at: 2018-04-25 00:04:11
End at: 2018-04-25 00:04:41
Local clock offset: -4.977 ms
Remote clock offset: 6.646 ms

Below is generated by plot.py at 2018-04-25 01:04:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 59.47 Mbit/s
95th percentile per-packet one-way delay: 113.091 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 33.69 Mbit/s
95th percentile per-packet one-way delay: 113.193 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 28.23 Mbit/s
95th percentile per-packet one-way delay: 112.252 ms
Loss rate: 0.65%
-- Flow 3:
Average throughput: 21.04 Mbit/s
95th percentile per-packet one-way delay: 117.768 ms
Loss rate: 0.88%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-04-25 00:26:29

End at: 2018-04-25 00:26:59

Local clock offset: -4.886 ms

Remote clock offset: 7.105 ms

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 52.67 Mbit/s

95th percentile per-packet one-way delay: 113.606 ms

Loss rate: 0.74%

-- Flow 1:

Average throughput: 24.84 Mbit/s

95th percentile per-packet one-way delay: 111.945 ms

Loss rate: 0.52%

-- Flow 2:

Average throughput: 25.13 Mbit/s

95th percentile per-packet one-way delay: 114.221 ms

Loss rate: 0.86%

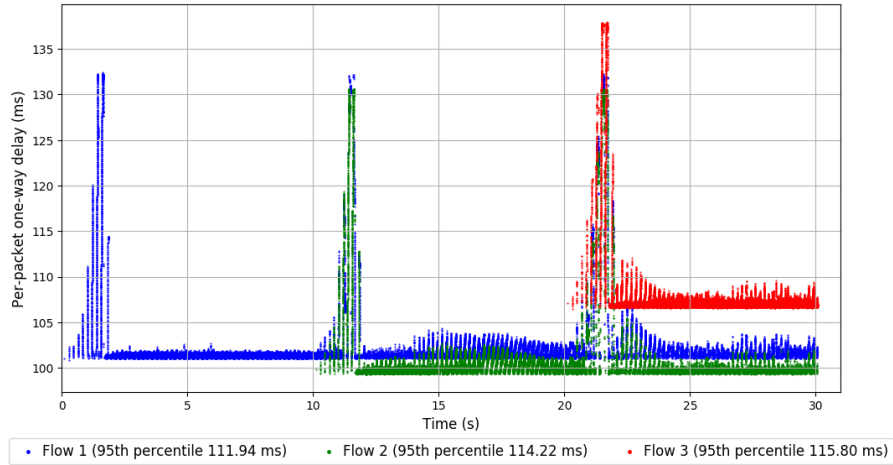
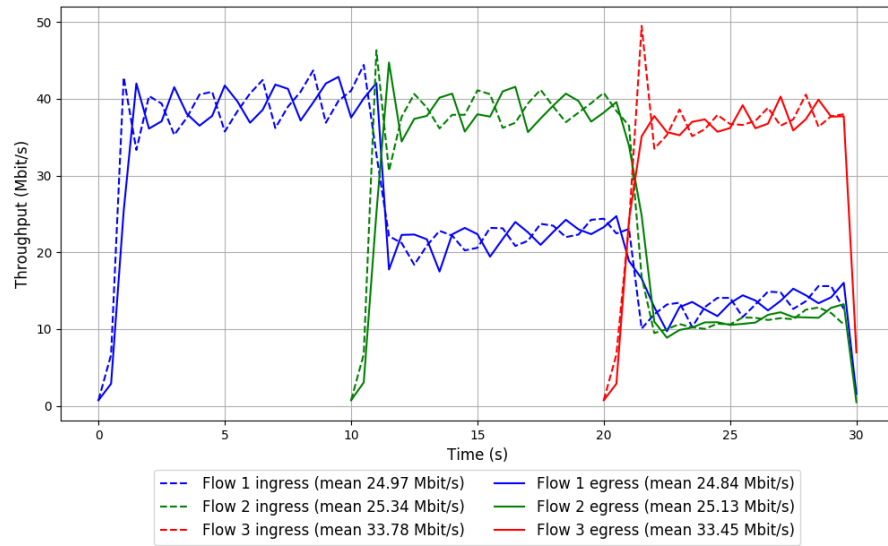
-- Flow 3:

Average throughput: 33.45 Mbit/s

95th percentile per-packet one-way delay: 115.804 ms

Loss rate: 1.04%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-04-24 20:50:37

End at: 2018-04-24 20:51:07

Local clock offset: -4.8 ms

Remote clock offset: 9.036 ms

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 38.98 Mbit/s

95th percentile per-packet one-way delay: 132.916 ms

Loss rate: 27.38%

-- Flow 1:

Average throughput: 20.94 Mbit/s

95th percentile per-packet one-way delay: 132.873 ms

Loss rate: 10.23%

-- Flow 2:

Average throughput: 19.69 Mbit/s

95th percentile per-packet one-way delay: 144.082 ms

Loss rate: 46.60%

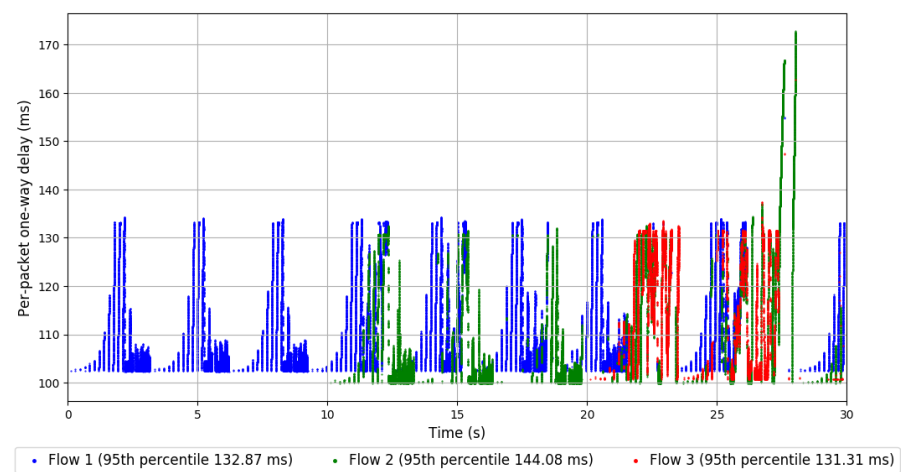
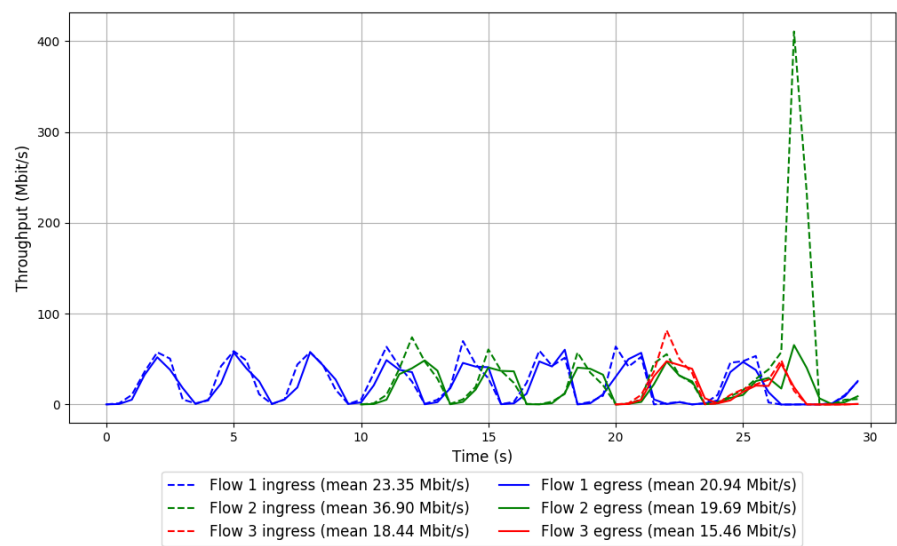
-- Flow 3:

Average throughput: 15.46 Mbit/s

95th percentile per-packet one-way delay: 131.313 ms

Loss rate: 16.13%

Run 1: Report of Verus — Data Link

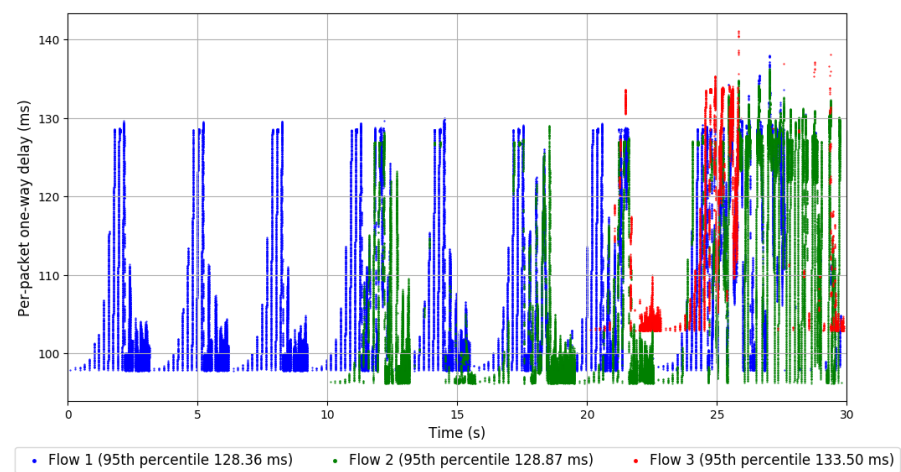
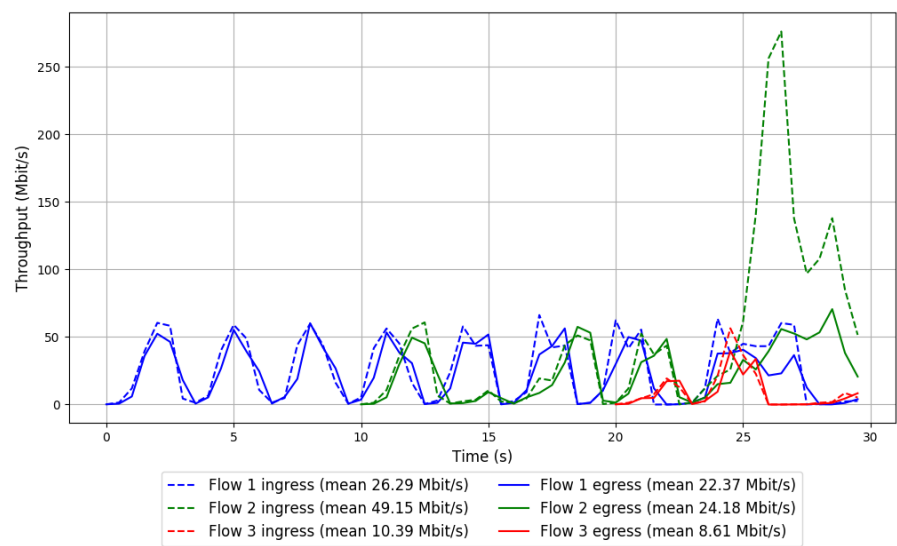


Run 2: Statistics of Verus

Start at: 2018-04-24 21:13:13
End at: 2018-04-24 21:13:43
Local clock offset: -4.191 ms
Remote clock offset: 3.877 ms

Below is generated by plot.py at 2018-04-25 01:04:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 41.09 Mbit/s
95th percentile per-packet one-way delay: 128.484 ms
Loss rate: 33.82%
-- Flow 1:
Average throughput: 22.37 Mbit/s
95th percentile per-packet one-way delay: 128.361 ms
Loss rate: 14.88%
-- Flow 2:
Average throughput: 24.18 Mbit/s
95th percentile per-packet one-way delay: 128.869 ms
Loss rate: 50.81%
-- Flow 3:
Average throughput: 8.61 Mbit/s
95th percentile per-packet one-way delay: 133.502 ms
Loss rate: 17.18%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-04-24 21:35:47

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

Local clock offset: -4.886 ms

Remote clock offset: 8.423 ms

Below is generated by plot.py at 2018-04-25 01:05:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 40.04 Mbit/s

95th percentile per-packet one-way delay: 161.091 ms

Loss rate: 68.65%

-- Flow 1:

Average throughput: 30.02 Mbit/s

95th percentile per-packet one-way delay: 163.619 ms

Loss rate: 73.06%

-- Flow 2:

Average throughput: 12.92 Mbit/s

95th percentile per-packet one-way delay: 132.562 ms

Loss rate: 36.25%

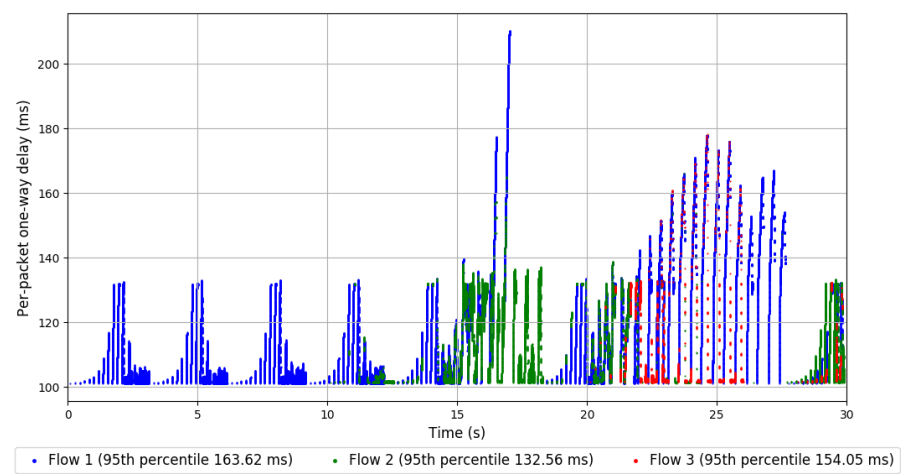
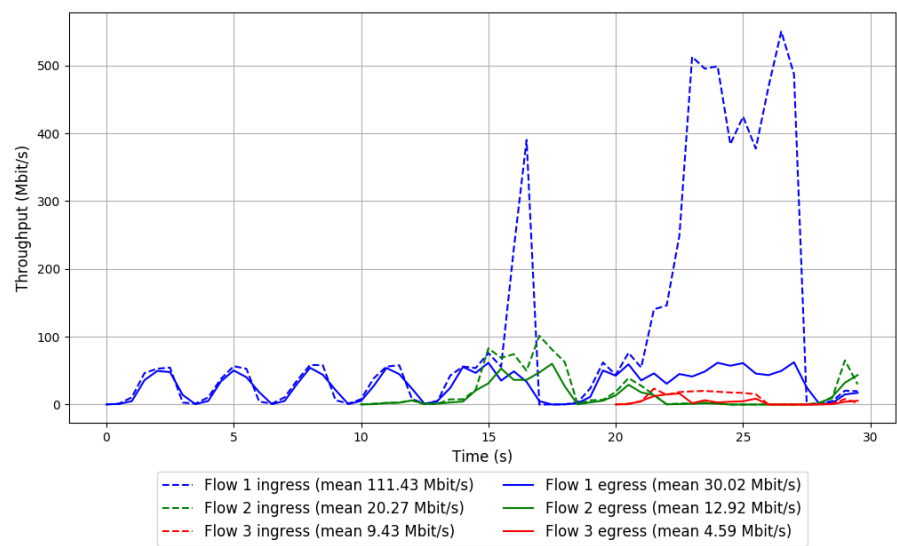
-- Flow 3:

Average throughput: 4.59 Mbit/s

95th percentile per-packet one-way delay: 154.048 ms

Loss rate: 51.17%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-04-24 21:58:18

End at: 2018-04-24 21:58:48

Local clock offset: -5.676 ms

Remote clock offset: 8.206 ms

Below is generated by plot.py at 2018-04-25 01:05:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 43.01 Mbit/s

95th percentile per-packet one-way delay: 132.630 ms

Loss rate: 15.04%

-- Flow 1:

Average throughput: 22.39 Mbit/s

95th percentile per-packet one-way delay: 132.573 ms

Loss rate: 10.21%

-- Flow 2:

Average throughput: 21.67 Mbit/s

95th percentile per-packet one-way delay: 132.744 ms

Loss rate: 22.97%

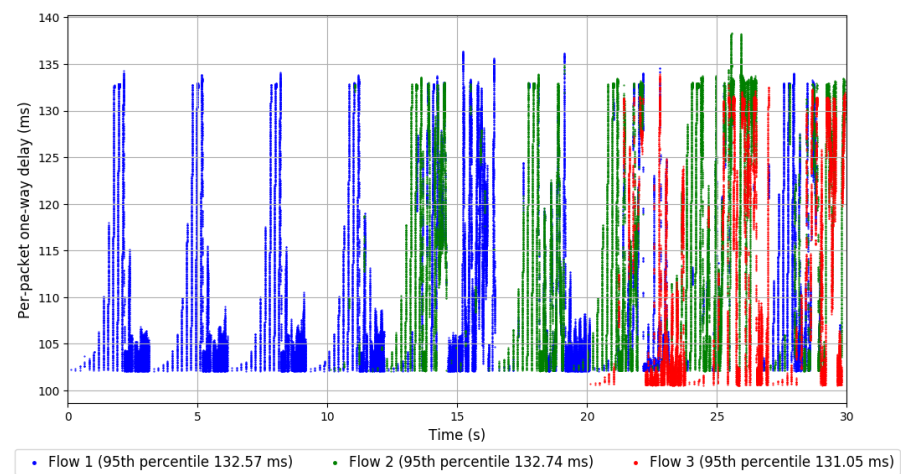
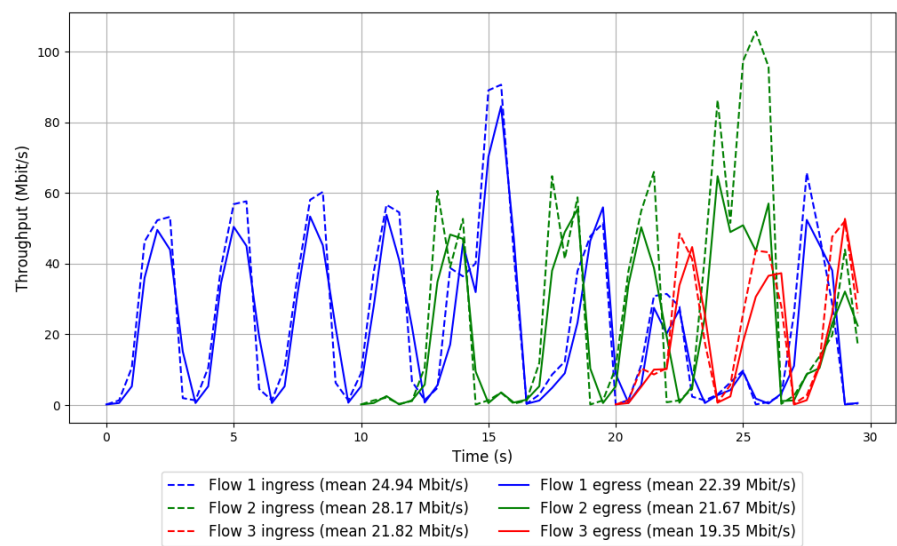
-- Flow 3:

Average throughput: 19.35 Mbit/s

95th percentile per-packet one-way delay: 131.049 ms

Loss rate: 11.04%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-04-24 22:20:51

End at: 2018-04-24 22:21:21

Local clock offset: -5.36 ms

Remote clock offset: 3.364 ms

Below is generated by plot.py at 2018-04-25 01:05:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 40.51 Mbit/s

95th percentile per-packet one-way delay: 130.254 ms

Loss rate: 55.98%

-- Flow 1:

Average throughput: 17.84 Mbit/s

95th percentile per-packet one-way delay: 127.445 ms

Loss rate: 30.81%

-- Flow 2:

Average throughput: 32.04 Mbit/s

95th percentile per-packet one-way delay: 131.273 ms

Loss rate: 66.86%

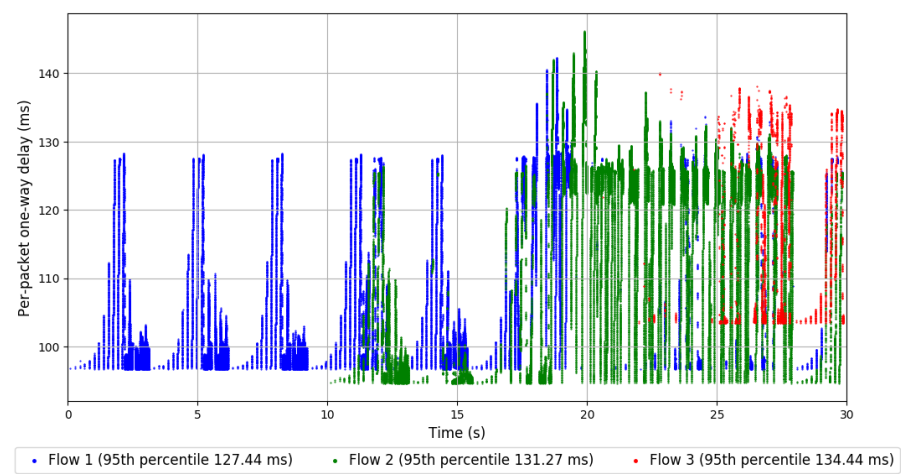
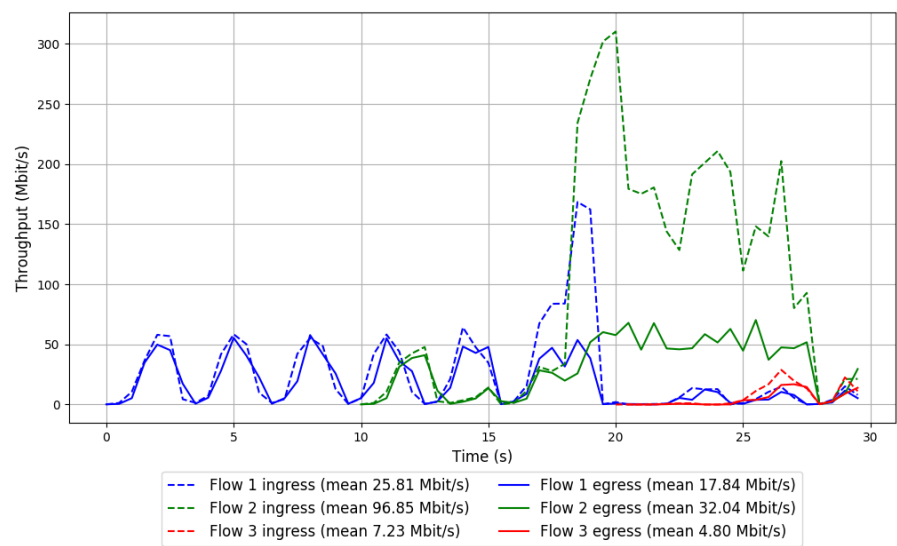
-- Flow 3:

Average throughput: 4.80 Mbit/s

95th percentile per-packet one-way delay: 134.444 ms

Loss rate: 33.78%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-04-24 22:43:22

End at: 2018-04-24 22:43:52

Local clock offset: -4.669 ms

Remote clock offset: 4.036 ms

Below is generated by plot.py at 2018-04-25 01:05:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 43.44 Mbit/s

95th percentile per-packet one-way delay: 134.943 ms

Loss rate: 59.51%

-- Flow 1:

Average throughput: 26.61 Mbit/s

95th percentile per-packet one-way delay: 128.024 ms

Loss rate: 48.60%

-- Flow 2:

Average throughput: 18.11 Mbit/s

95th percentile per-packet one-way delay: 178.930 ms

Loss rate: 75.96%

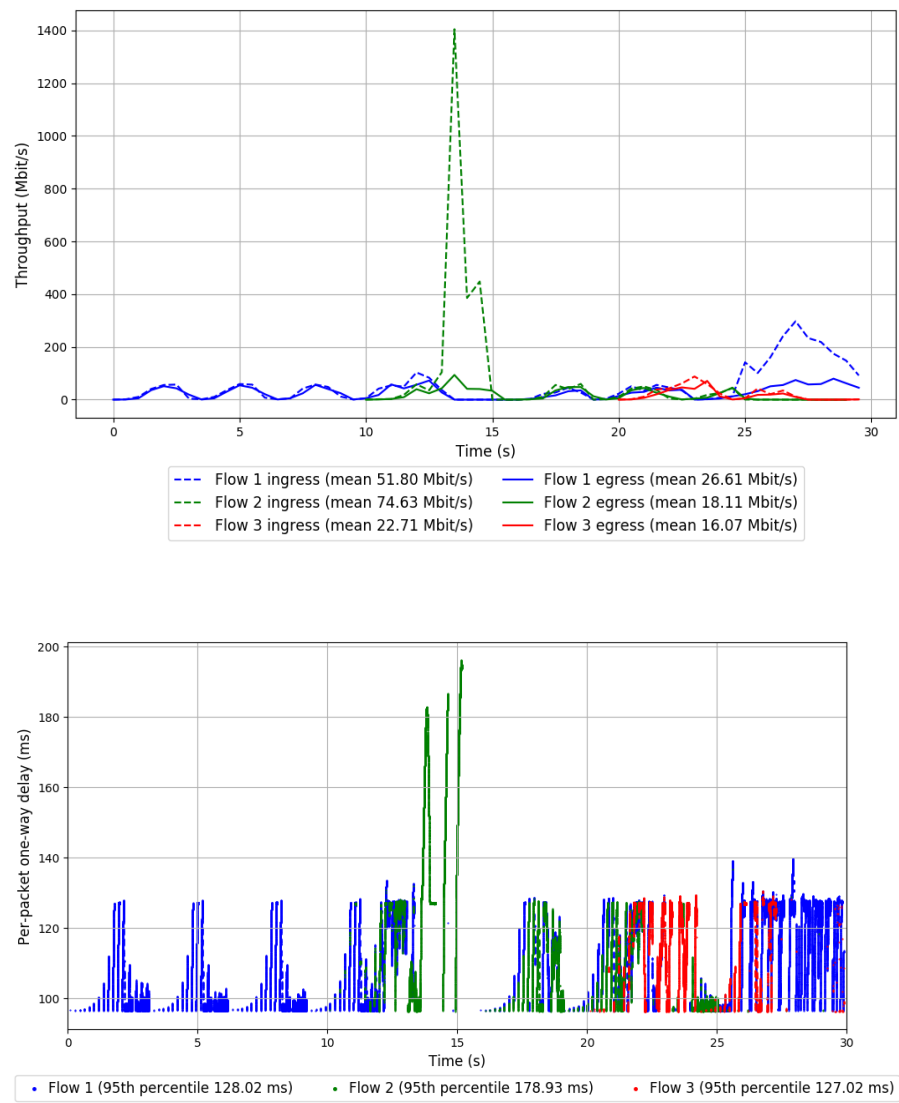
-- Flow 3:

Average throughput: 16.07 Mbit/s

95th percentile per-packet one-way delay: 127.024 ms

Loss rate: 29.22%

Run 6: Report of Verus — Data Link

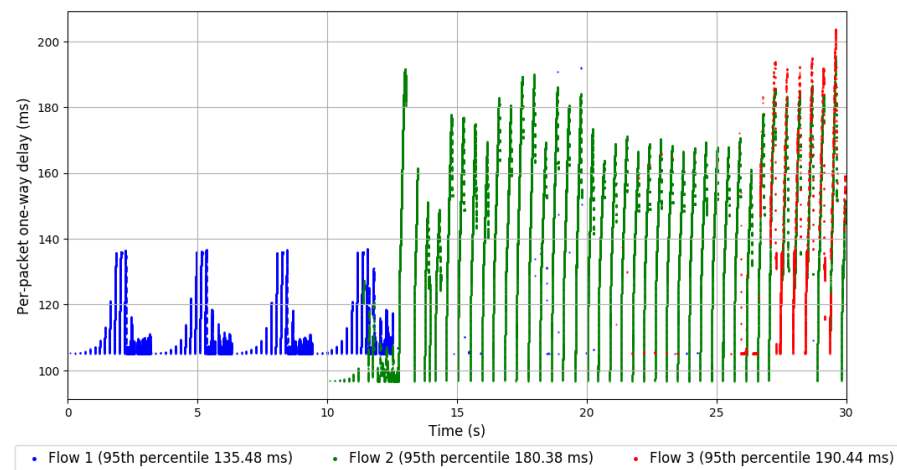
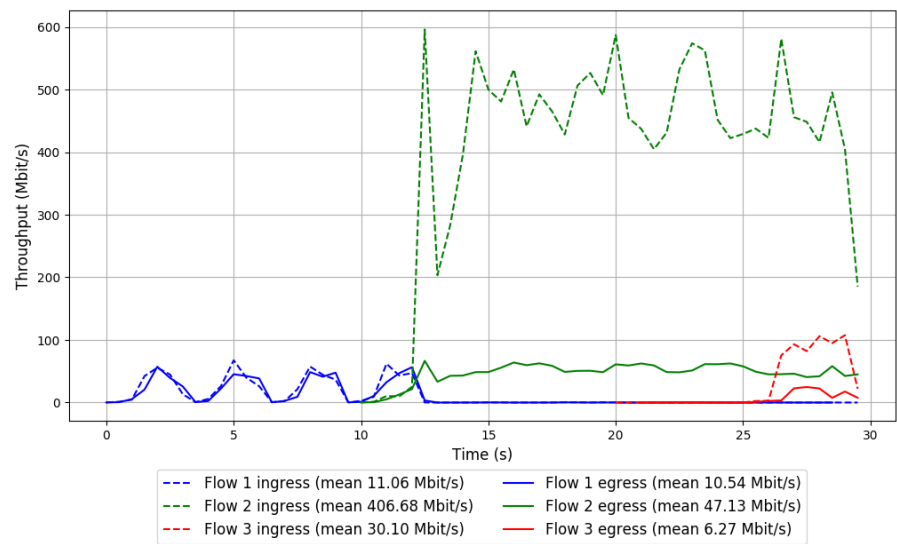


Run 7: Statistics of Verus

Start at: 2018-04-24 23:05:54
End at: 2018-04-24 23:06:24
Local clock offset: -5.959 ms
Remote clock offset: 3.672 ms

Below is generated by plot.py at 2018-04-25 01:06:28
Datalink statistics
-- Total of 3 flows:
Average throughput: 43.28 Mbit/s
95th percentile per-packet one-way delay: 178.743 ms
Loss rate: 85.10%
-- Flow 1:
Average throughput: 10.54 Mbit/s
95th percentile per-packet one-way delay: 135.482 ms
Loss rate: 8.35%
-- Flow 2:
Average throughput: 47.13 Mbit/s
95th percentile per-packet one-way delay: 180.376 ms
Loss rate: 88.38%
-- Flow 3:
Average throughput: 6.27 Mbit/s
95th percentile per-packet one-way delay: 190.441 ms
Loss rate: 81.21%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-04-24 23:28:33

End at: 2018-04-24 23:29:03

Local clock offset: -5.766 ms

Remote clock offset: 6.123 ms

Below is generated by plot.py at 2018-04-25 01:06:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 41.41 Mbit/s

95th percentile per-packet one-way delay: 133.694 ms

Loss rate: 35.21%

-- Flow 1:

Average throughput: 18.84 Mbit/s

95th percentile per-packet one-way delay: 134.202 ms

Loss rate: 42.25%

-- Flow 2:

Average throughput: 27.56 Mbit/s

95th percentile per-packet one-way delay: 133.616 ms

Loss rate: 29.18%

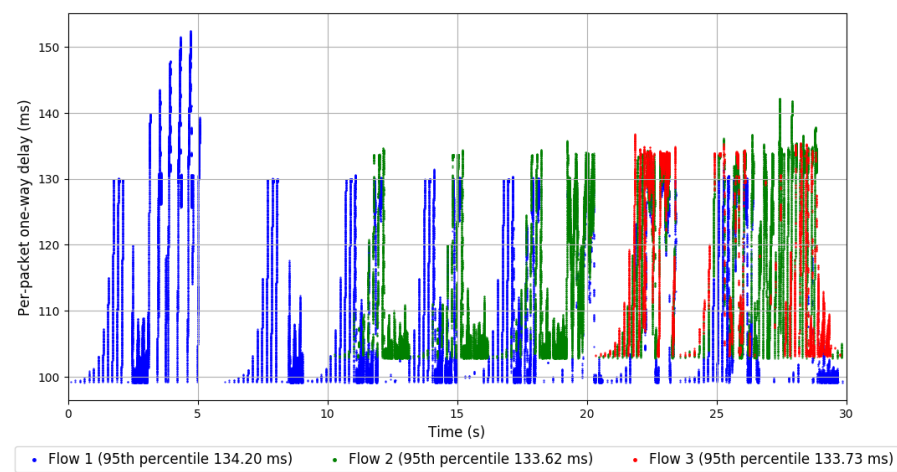
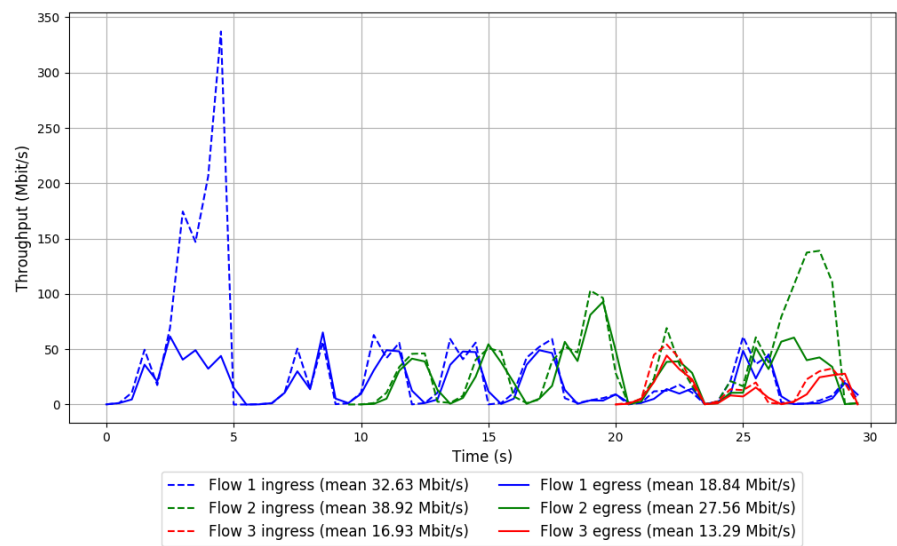
-- Flow 3:

Average throughput: 13.29 Mbit/s

95th percentile per-packet one-way delay: 133.728 ms

Loss rate: 21.63%

Run 8: Report of Verus — Data Link

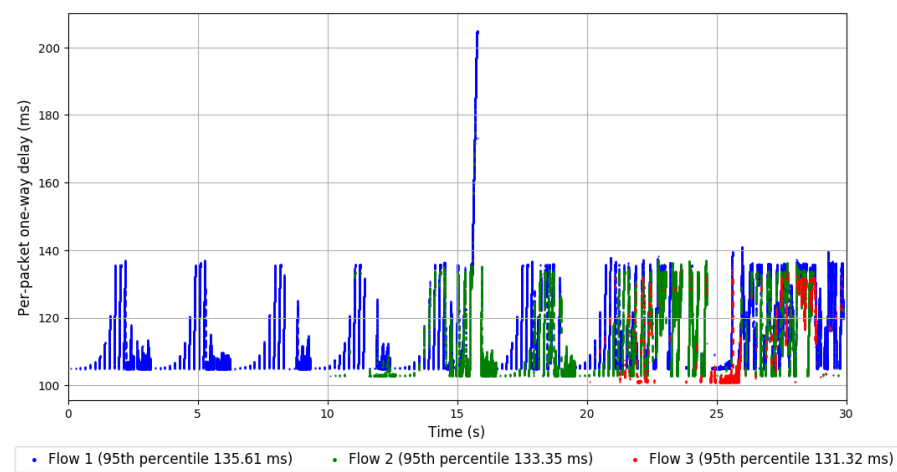
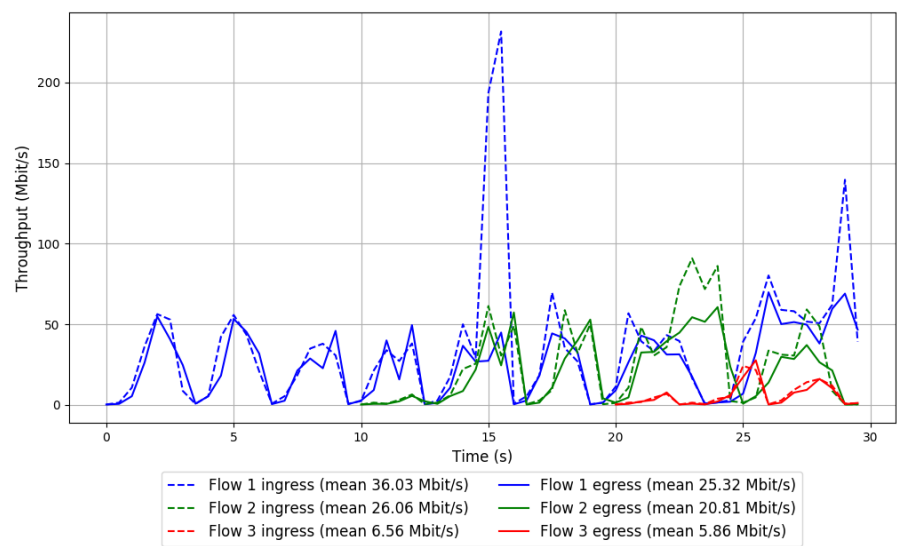


Run 9: Statistics of Verus

Start at: 2018-04-24 23:50:47
End at: 2018-04-24 23:51:17
Local clock offset: -4.966 ms
Remote clock offset: 6.766 ms

Below is generated by plot.py at 2018-04-25 01:06:28
Datalink statistics
-- Total of 3 flows:
Average throughput: 41.04 Mbit/s
95th percentile per-packet one-way delay: 135.345 ms
Loss rate: 25.94%
-- Flow 1:
Average throughput: 25.32 Mbit/s
95th percentile per-packet one-way delay: 135.606 ms
Loss rate: 29.68%
-- Flow 2:
Average throughput: 20.81 Mbit/s
95th percentile per-packet one-way delay: 133.347 ms
Loss rate: 20.06%
-- Flow 3:
Average throughput: 5.86 Mbit/s
95th percentile per-packet one-way delay: 131.319 ms
Loss rate: 10.34%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-04-25 00:13:24

End at: 2018-04-25 00:13:54

Local clock offset: -5.011 ms

Remote clock offset: 2.151 ms

Below is generated by plot.py at 2018-04-25 01:06:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 37.51 Mbit/s

95th percentile per-packet one-way delay: 141.574 ms

Loss rate: 44.07%

-- Flow 1:

Average throughput: 22.61 Mbit/s

95th percentile per-packet one-way delay: 155.701 ms

Loss rate: 53.94%

-- Flow 2:

Average throughput: 14.63 Mbit/s

95th percentile per-packet one-way delay: 125.211 ms

Loss rate: 15.28%

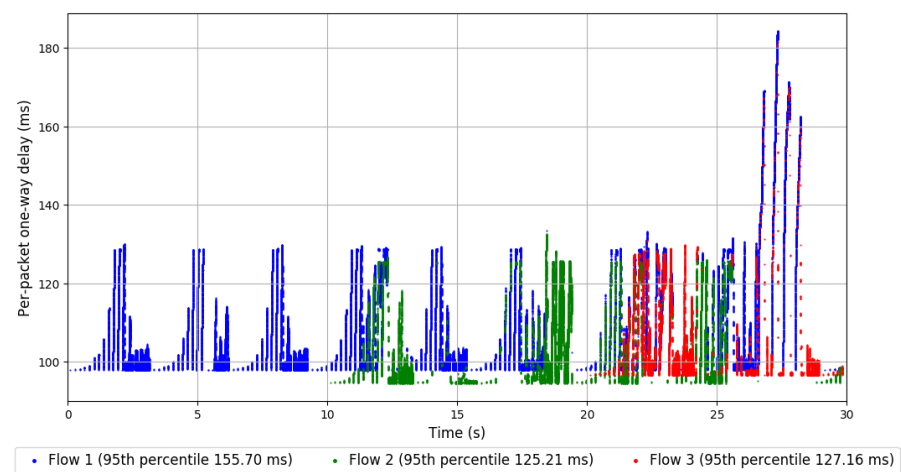
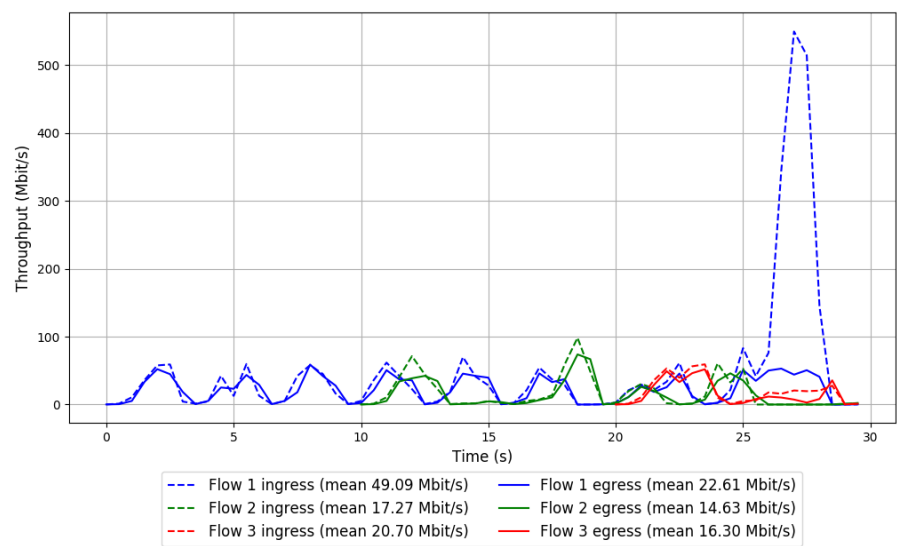
-- Flow 3:

Average throughput: 16.30 Mbit/s

95th percentile per-packet one-way delay: 127.157 ms

Loss rate: 21.25%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2018-04-24 21:02:17

End at: 2018-04-24 21:02:47

Local clock offset: -5.542 ms

Remote clock offset: 3.869 ms

Below is generated by plot.py at 2018-04-25 01:13:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.26 Mbit/s

95th percentile per-packet one-way delay: 136.644 ms

Loss rate: 91.08%

-- Flow 1:

Average throughput: 59.50 Mbit/s

95th percentile per-packet one-way delay: 136.614 ms

Loss rate: 87.81%

-- Flow 2:

Average throughput: 47.66 Mbit/s

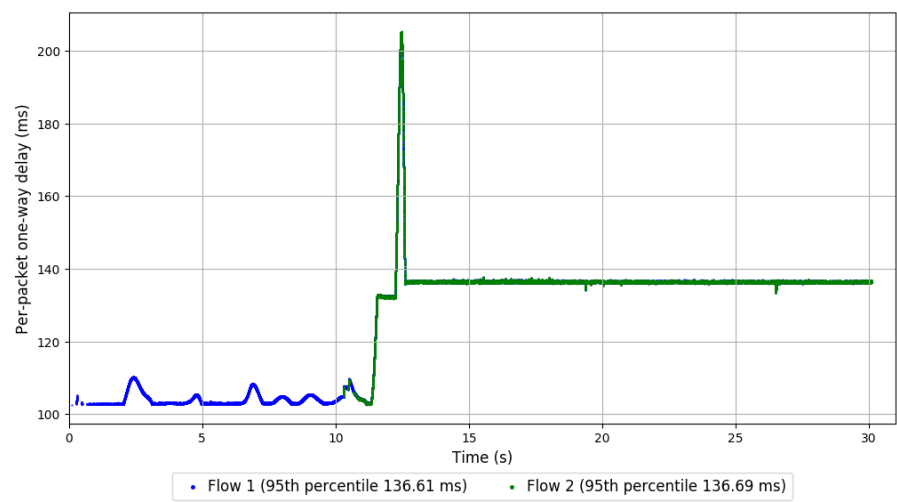
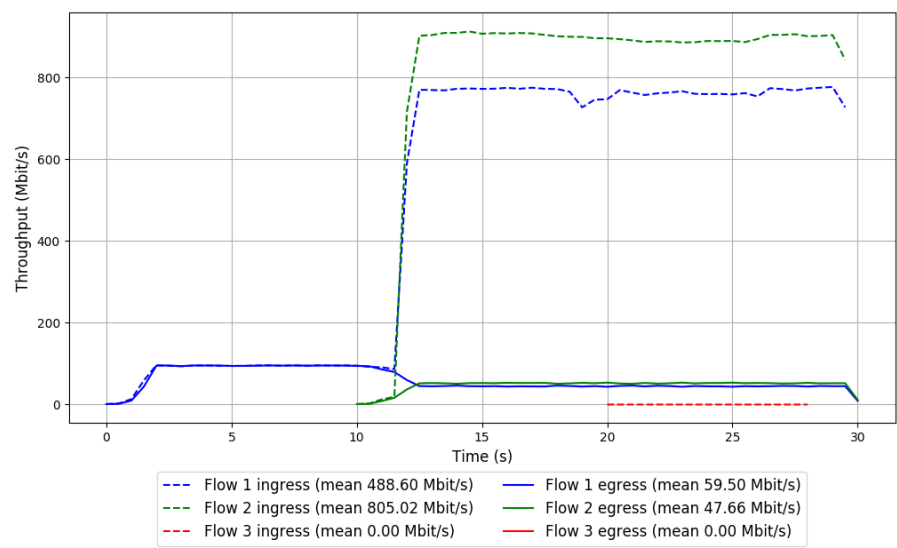
95th percentile per-packet one-way delay: 136.690 ms

Loss rate: 94.07%

-- Flow 3:

Average throughput: 0.00 Mbit/s

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-04-24 21:24:53

End at: 2018-04-24 21:25:23

Local clock offset: -4.96 ms

Remote clock offset: 8.409 ms

Below is generated by plot.py at 2018-04-25 01:13:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.29 Mbit/s

95th percentile per-packet one-way delay: 132.158 ms

Loss rate: 89.60%

-- Flow 1:

Average throughput: 92.29 Mbit/s

95th percentile per-packet one-way delay: 132.158 ms

Loss rate: 89.60%

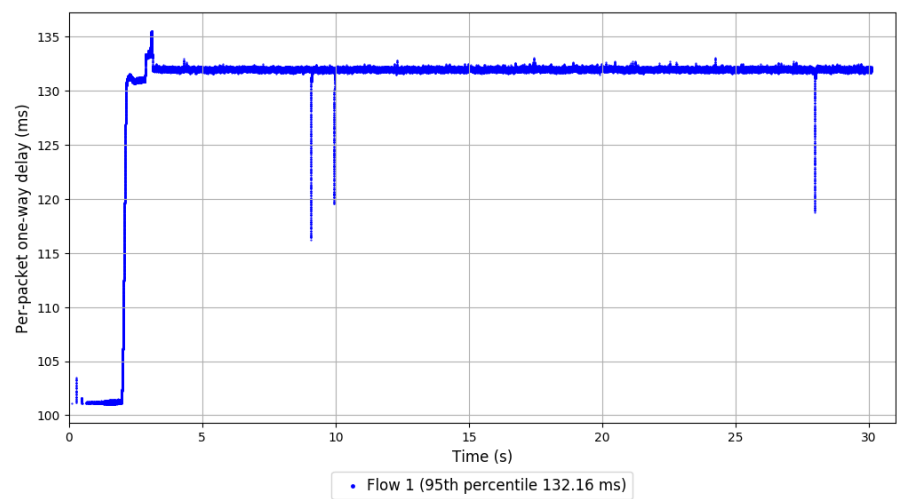
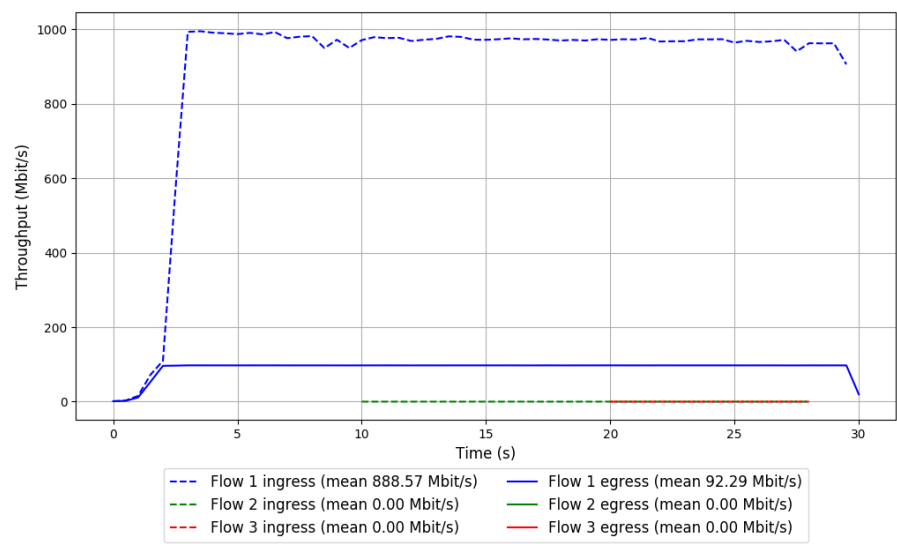
-- Flow 2:

Average throughput: 0.00 Mbit/s

-- Flow 3:

Average throughput: 0.00 Mbit/s

Run 2: Report of Copa — Data Link

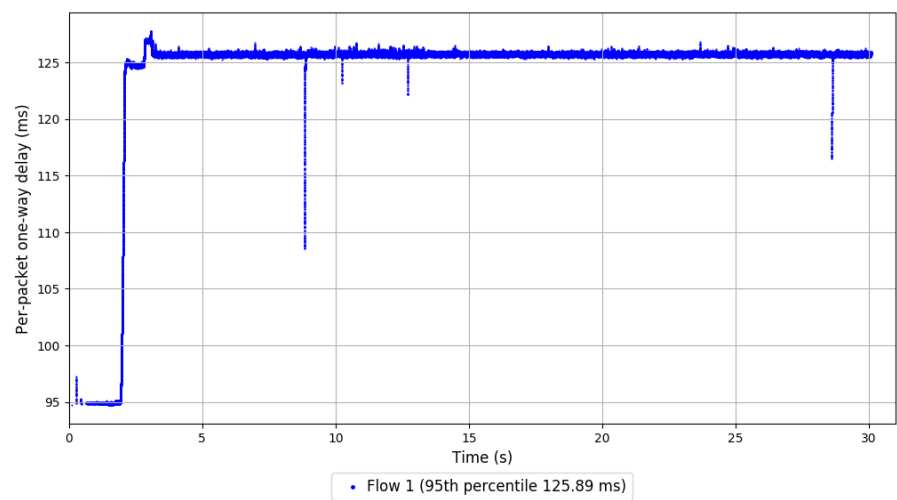
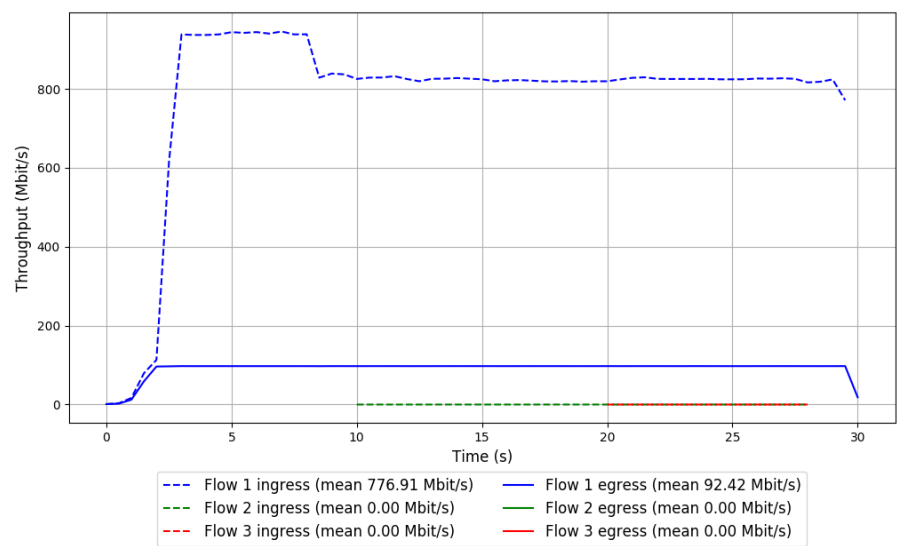


Run 3: Statistics of Copa

Start at: 2018-04-24 21:47:30
End at: 2018-04-24 21:48:00
Local clock offset: -4.962 ms
Remote clock offset: 3.759 ms

Below is generated by plot.py at 2018-04-25 01:13:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 92.42 Mbit/s
95th percentile per-packet one-way delay: 125.889 ms
Loss rate: 88.09%
-- Flow 1:
Average throughput: 92.42 Mbit/s
95th percentile per-packet one-way delay: 125.889 ms
Loss rate: 88.09%
-- Flow 2:
Average throughput: 0.00 Mbit/s
-- Flow 3:
Average throughput: 0.00 Mbit/s

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-04-24 22:10:00

End at: 2018-04-24 22:10:30

Local clock offset: -4.954 ms

Remote clock offset: 8.101 ms

Below is generated by plot.py at 2018-04-25 01:13:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.10 Mbit/s

95th percentile per-packet one-way delay: 137.656 ms

Loss rate: 88.99%

-- Flow 1:

Average throughput: 92.10 Mbit/s

95th percentile per-packet one-way delay: 137.656 ms

Loss rate: 88.99%

-- Flow 2:

Average throughput: 0.00 Mbit/s

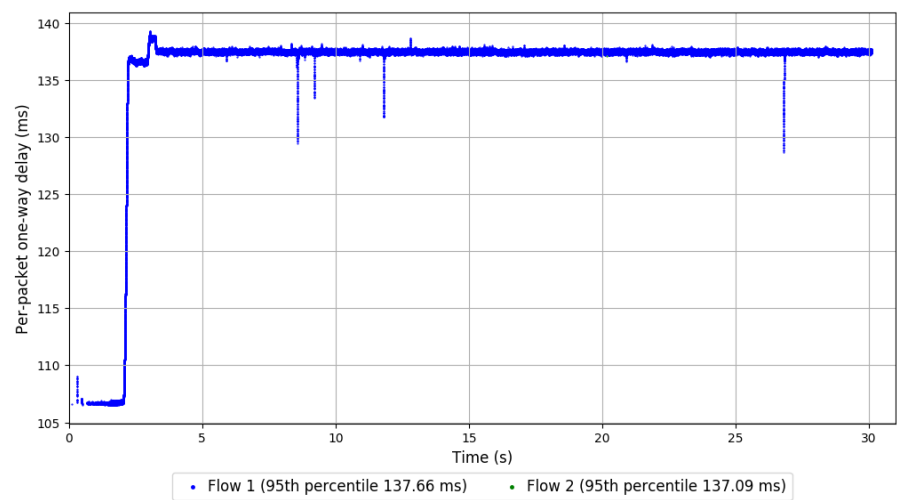
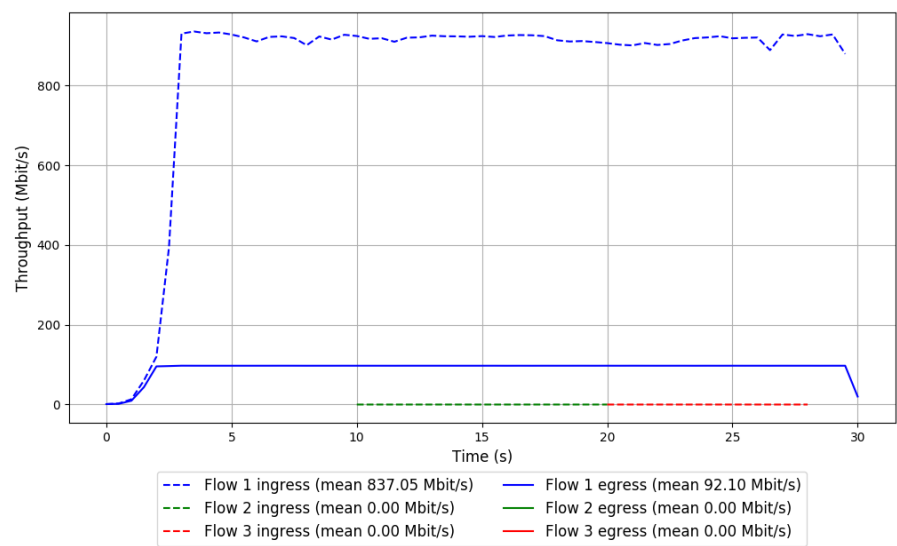
95th percentile per-packet one-way delay: 137.089 ms

Loss rate: 83.33%

-- Flow 3:

Average throughput: 0.00 Mbit/s

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

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

End at: 2018-04-24 22:33:02

Local clock offset: -5.414 ms

Remote clock offset: 8.756 ms

Below is generated by plot.py at 2018-04-25 01:13:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.29 Mbit/s

95th percentile per-packet one-way delay: 133.500 ms

Loss rate: 88.63%

-- Flow 1:

Average throughput: 92.28 Mbit/s

95th percentile per-packet one-way delay: 133.500 ms

Loss rate: 88.63%

-- Flow 2:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 132.734 ms

Loss rate: 80.00%

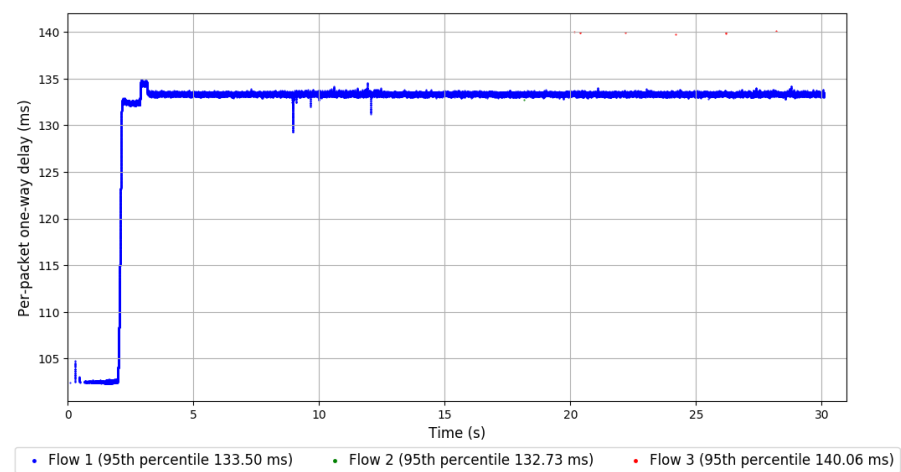
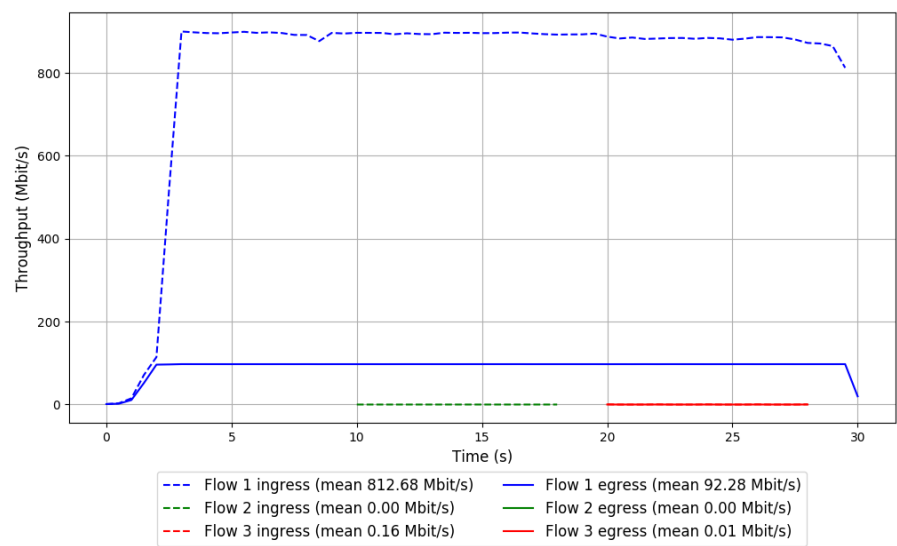
-- Flow 3:

Average throughput: 0.01 Mbit/s

95th percentile per-packet one-way delay: 140.063 ms

Loss rate: 94.31%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

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

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

Local clock offset: -4.451 ms

Remote clock offset: 3.115 ms

Below is generated by plot.py at 2018-04-25 01:13:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.36 Mbit/s

95th percentile per-packet one-way delay: 126.917 ms

Loss rate: 89.38%

-- Flow 1:

Average throughput: 92.36 Mbit/s

95th percentile per-packet one-way delay: 126.917 ms

Loss rate: 89.38%

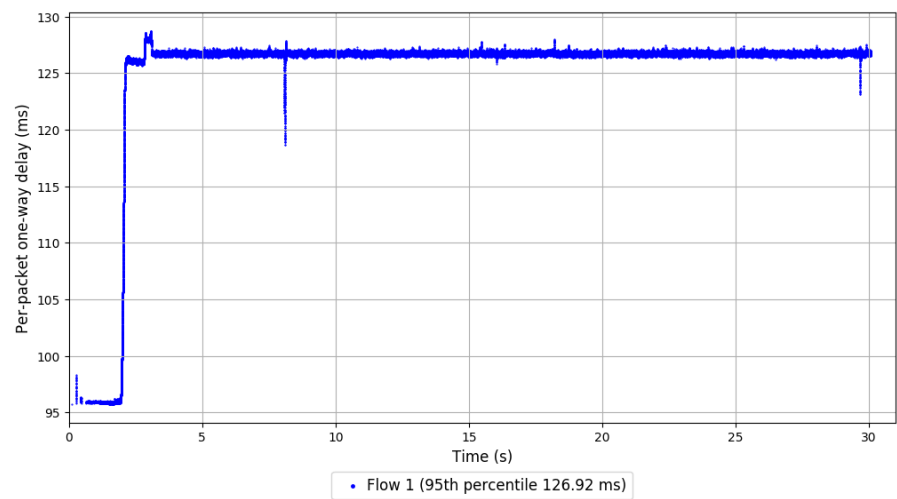
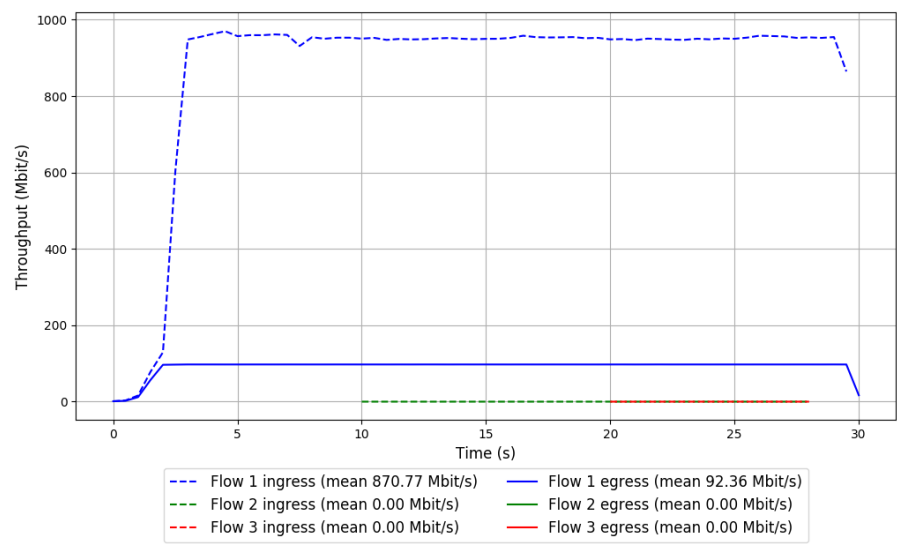
-- Flow 2:

Average throughput: 0.00 Mbit/s

-- Flow 3:

Average throughput: 0.00 Mbit/s

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-04-24 23:17:38

End at: 2018-04-24 23:18:08

Local clock offset: -5.147 ms

Remote clock offset: 2.52 ms

Below is generated by plot.py at 2018-04-25 01:13:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.92 Mbit/s

95th percentile per-packet one-way delay: 131.312 ms

Loss rate: 90.74%

-- Flow 1:

Average throughput: 55.78 Mbit/s

95th percentile per-packet one-way delay: 125.470 ms

Loss rate: 87.14%

-- Flow 2:

Average throughput: 46.82 Mbit/s

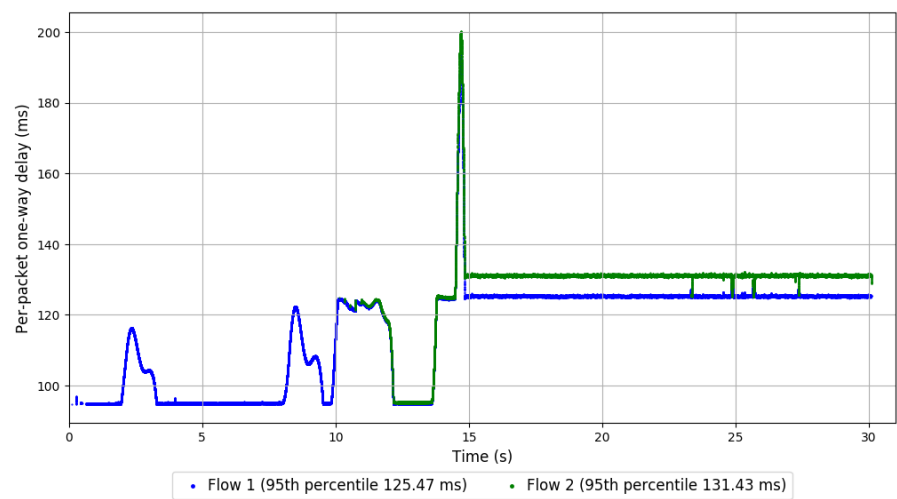
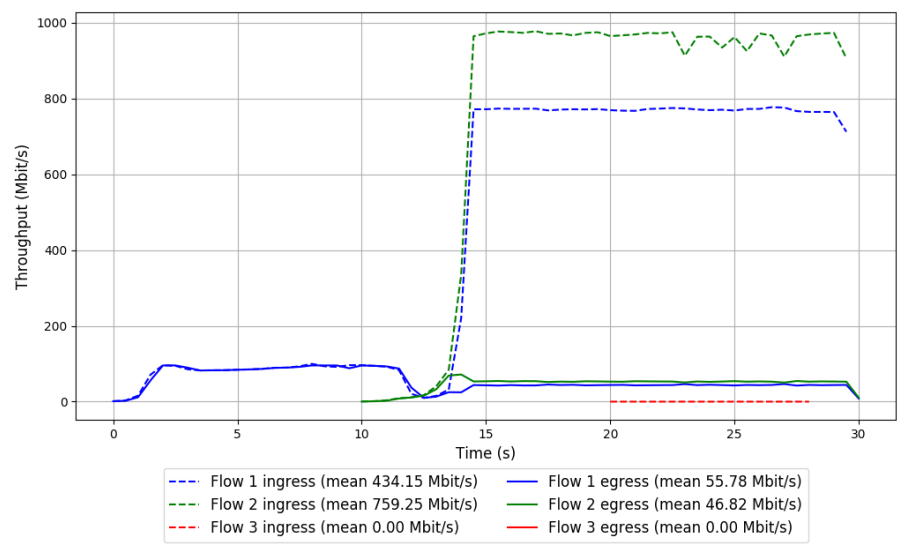
95th percentile per-packet one-way delay: 131.430 ms

Loss rate: 93.83%

-- Flow 3:

Average throughput: 0.00 Mbit/s

Run 7: Report of Copa — Data Link

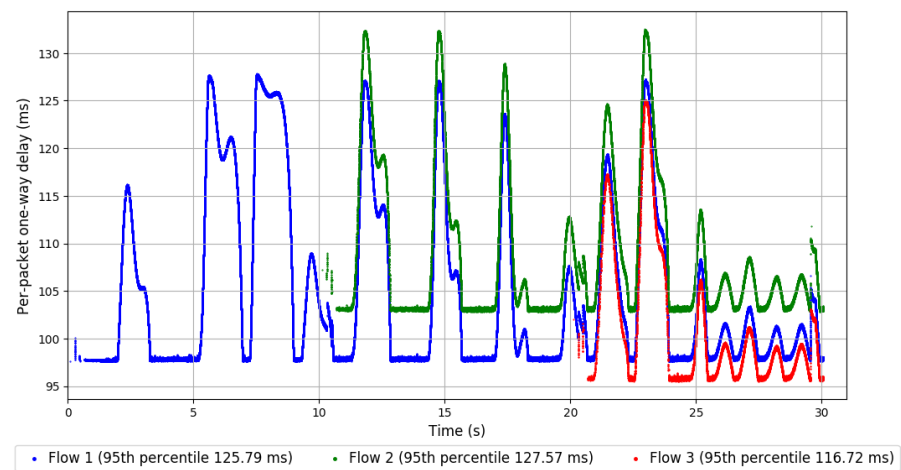
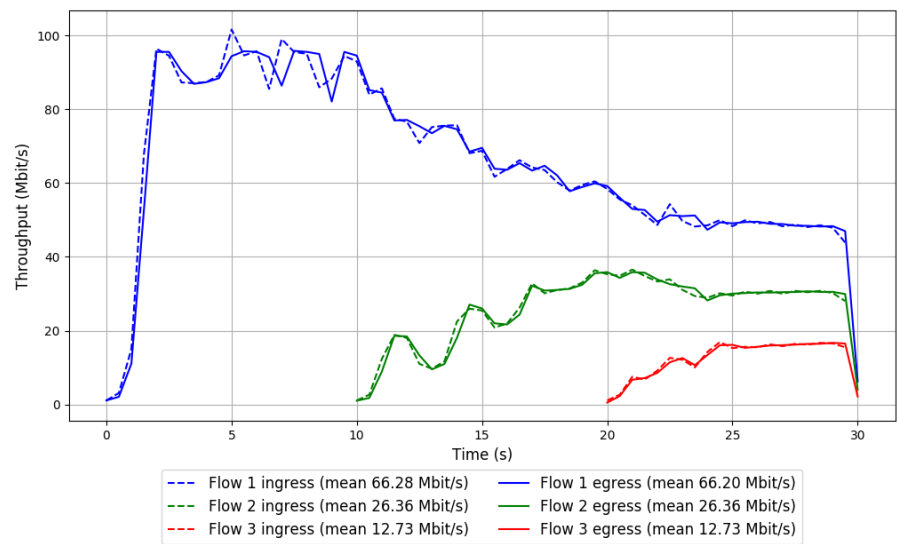


Run 8: Statistics of Copa

Start at: 2018-04-24 23:40:13
End at: 2018-04-24 23:40:43
Local clock offset: -4.251 ms
Remote clock offset: 2.329 ms

```
# Below is generated by plot.py at 2018-04-25 01:13:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.96 Mbit/s
95th percentile per-packet one-way delay: 125.794 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 66.20 Mbit/s
95th percentile per-packet one-way delay: 125.793 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 26.36 Mbit/s
95th percentile per-packet one-way delay: 127.570 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 12.73 Mbit/s
95th percentile per-packet one-way delay: 116.725 ms
Loss rate: 0.01%
```

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

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

End at: 2018-04-25 00:03:01

Local clock offset: -5.789 ms

Remote clock offset: 2.035 ms

Below is generated by plot.py at 2018-04-25 01:16:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.38 Mbit/s

95th percentile per-packet one-way delay: 128.296 ms

Loss rate: 89.83%

-- Flow 1:

Average throughput: 92.38 Mbit/s

95th percentile per-packet one-way delay: 128.296 ms

Loss rate: 89.83%

-- Flow 2:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 128.211 ms

Loss rate: 75.00%

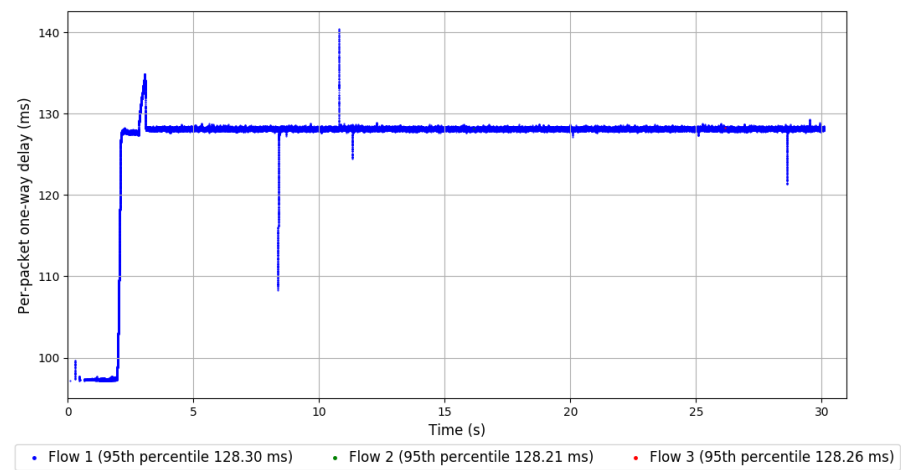
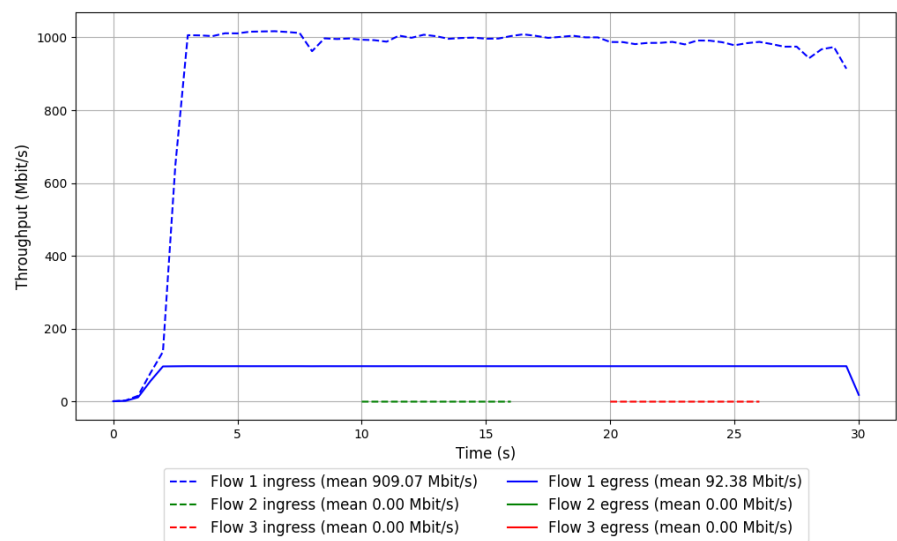
-- Flow 3:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 128.265 ms

Loss rate: 75.00%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-04-25 00:25:05

End at: 2018-04-25 00:25:35

Local clock offset: -4.89 ms

Remote clock offset: 3.308 ms

Below is generated by plot.py at 2018-04-25 01:16:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.75 Mbit/s

95th percentile per-packet one-way delay: 115.181 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 67.76 Mbit/s

95th percentile per-packet one-way delay: 114.893 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 26.18 Mbit/s

95th percentile per-packet one-way delay: 116.389 ms

Loss rate: 0.05%

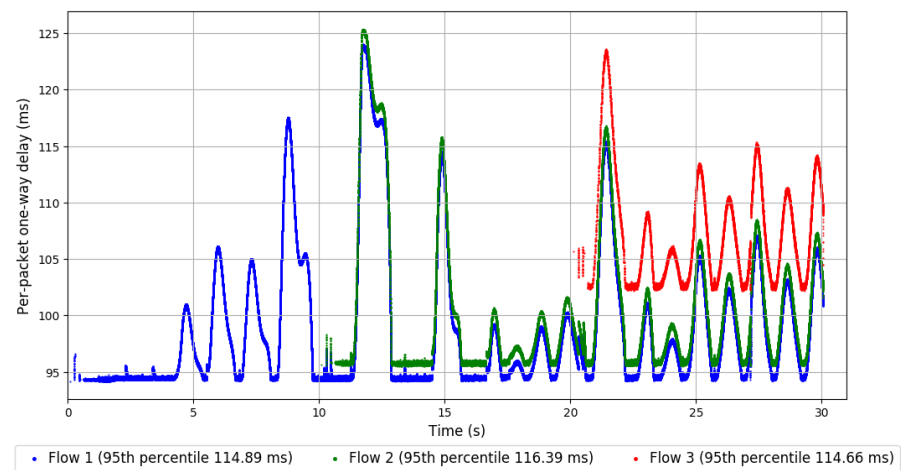
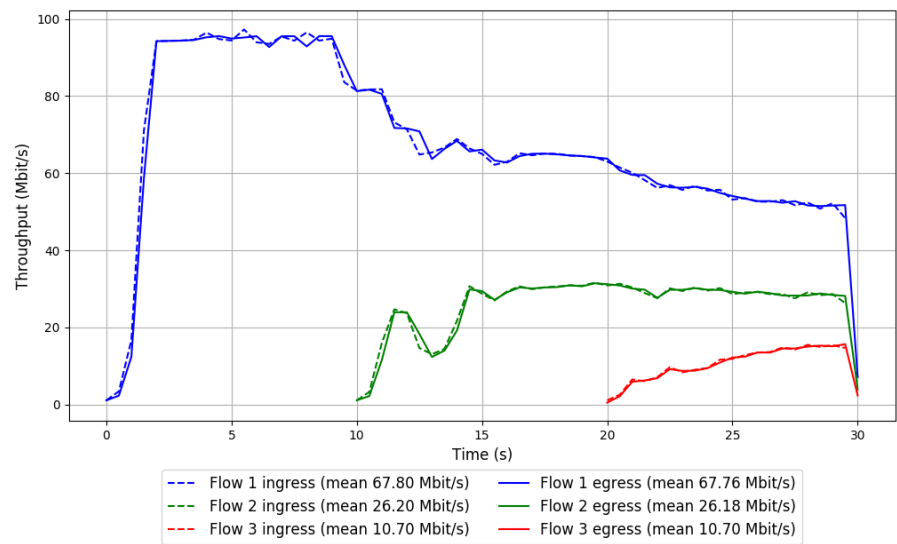
-- Flow 3:

Average throughput: 10.70 Mbit/s

95th percentile per-packet one-way delay: 114.660 ms

Loss rate: 0.02%

Run 10: Report of Copa — Data Link



Run 1: Statistics of FillP

Start at: 2018-04-24 20:59:36

End at: 2018-04-24 21:00:06

Local clock offset: -4.691 ms

Remote clock offset: 9.26 ms

Below is generated by plot.py at 2018-04-25 01:16:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.20 Mbit/s

95th percentile per-packet one-way delay: 130.795 ms

Loss rate: 18.03%

-- Flow 1:

Average throughput: 36.85 Mbit/s

95th percentile per-packet one-way delay: 130.501 ms

Loss rate: 15.87%

-- Flow 2:

Average throughput: 57.41 Mbit/s

95th percentile per-packet one-way delay: 130.924 ms

Loss rate: 17.84%

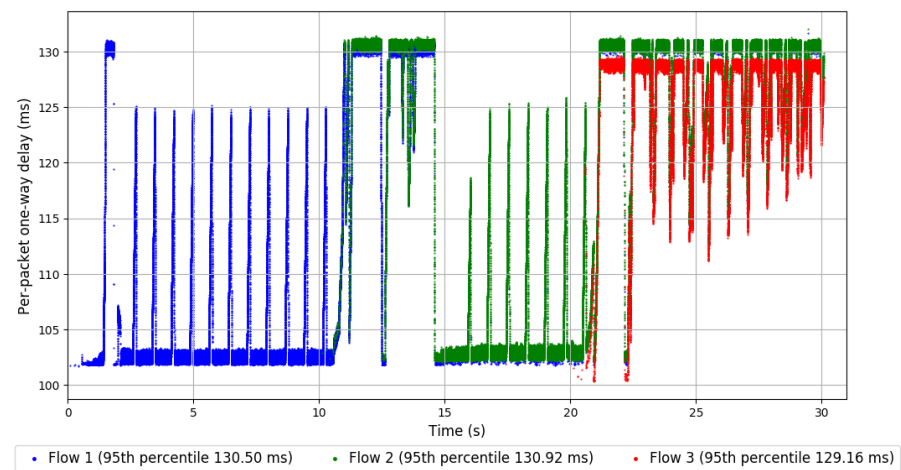
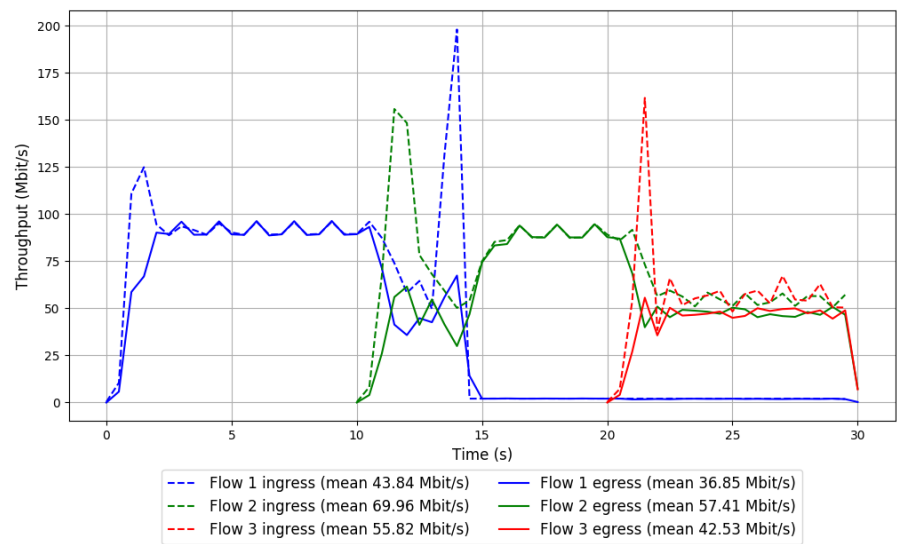
-- Flow 3:

Average throughput: 42.53 Mbit/s

95th percentile per-packet one-way delay: 129.159 ms

Loss rate: 23.61%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-04-24 21:22:12

End at: 2018-04-24 21:22:42

Local clock offset: -4.916 ms

Remote clock offset: 4.695 ms

Below is generated by plot.py at 2018-04-25 01:16:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.37 Mbit/s

95th percentile per-packet one-way delay: 132.819 ms

Loss rate: 14.28%

-- Flow 1:

Average throughput: 52.66 Mbit/s

95th percentile per-packet one-way delay: 130.999 ms

Loss rate: 11.78%

-- Flow 2:

Average throughput: 44.74 Mbit/s

95th percentile per-packet one-way delay: 132.958 ms

Loss rate: 15.75%

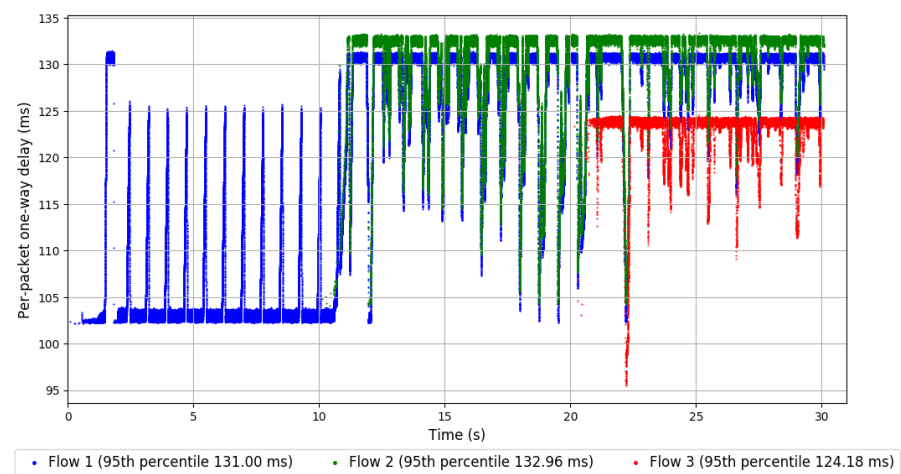
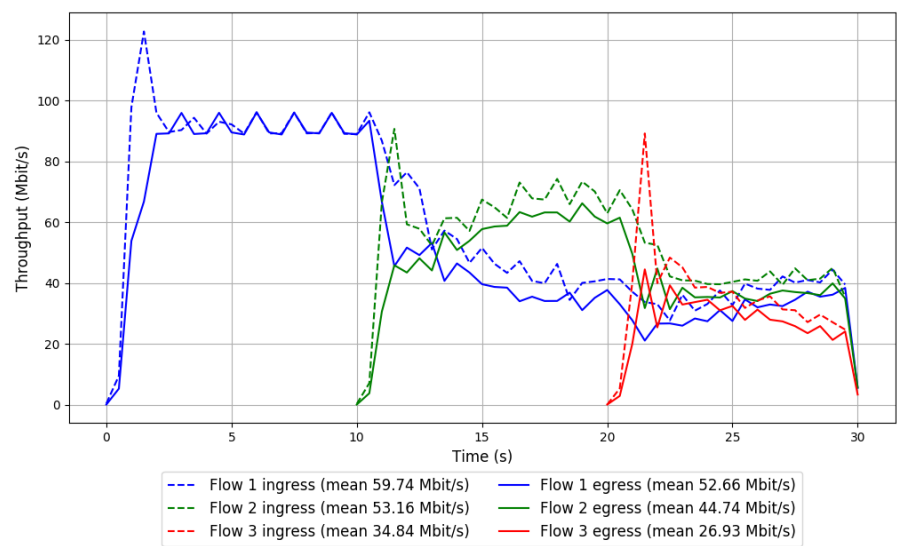
-- Flow 3:

Average throughput: 26.93 Mbit/s

95th percentile per-packet one-way delay: 124.178 ms

Loss rate: 22.70%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-04-24 21:44:48

End at: 2018-04-24 21:45:18

Local clock offset: -4.94 ms

Remote clock offset: 7.633 ms

Below is generated by plot.py at 2018-04-25 01:16:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.93 Mbit/s

95th percentile per-packet one-way delay: 136.074 ms

Loss rate: 18.67%

-- Flow 1:

Average throughput: 57.31 Mbit/s

95th percentile per-packet one-way delay: 126.956 ms

Loss rate: 12.36%

-- Flow 2:

Average throughput: 31.25 Mbit/s

95th percentile per-packet one-way delay: 136.251 ms

Loss rate: 28.10%

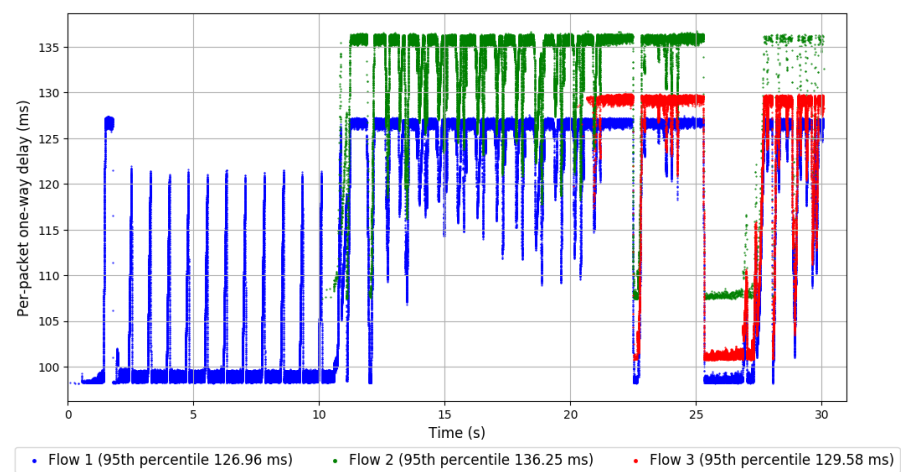
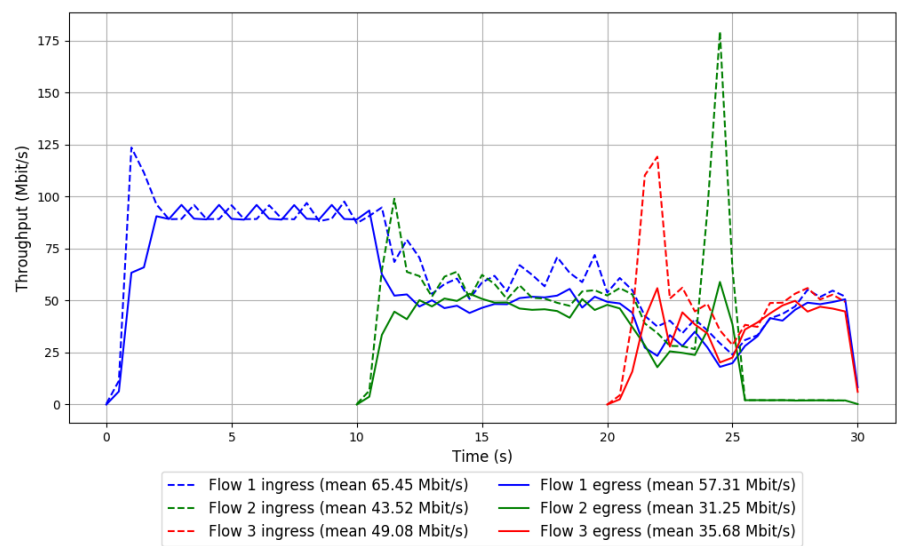
-- Flow 3:

Average throughput: 35.68 Mbit/s

95th percentile per-packet one-way delay: 129.581 ms

Loss rate: 27.24%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-04-24 22:07:17

End at: 2018-04-24 22:07:47

Local clock offset: -4.104 ms

Remote clock offset: 3.571 ms

Below is generated by plot.py at 2018-04-25 01:16:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.34 Mbit/s

95th percentile per-packet one-way delay: 129.495 ms

Loss rate: 16.00%

-- Flow 1:

Average throughput: 61.17 Mbit/s

95th percentile per-packet one-way delay: 124.622 ms

Loss rate: 10.70%

-- Flow 2:

Average throughput: 32.42 Mbit/s

95th percentile per-packet one-way delay: 126.124 ms

Loss rate: 26.11%

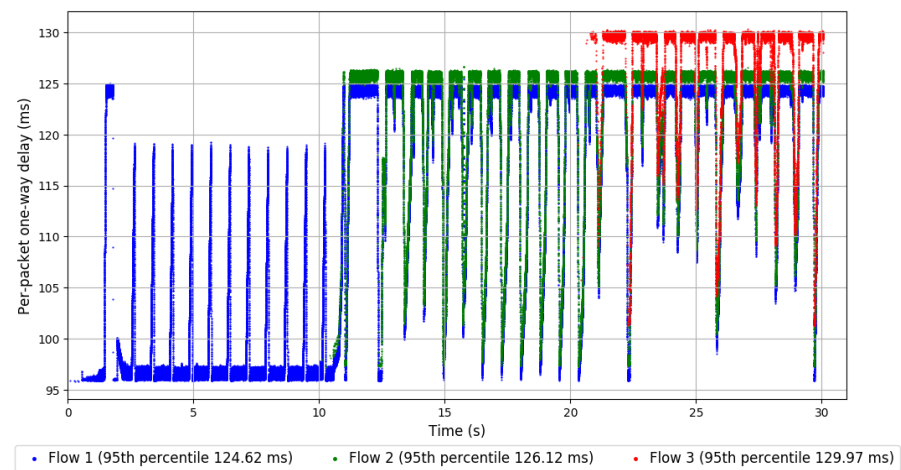
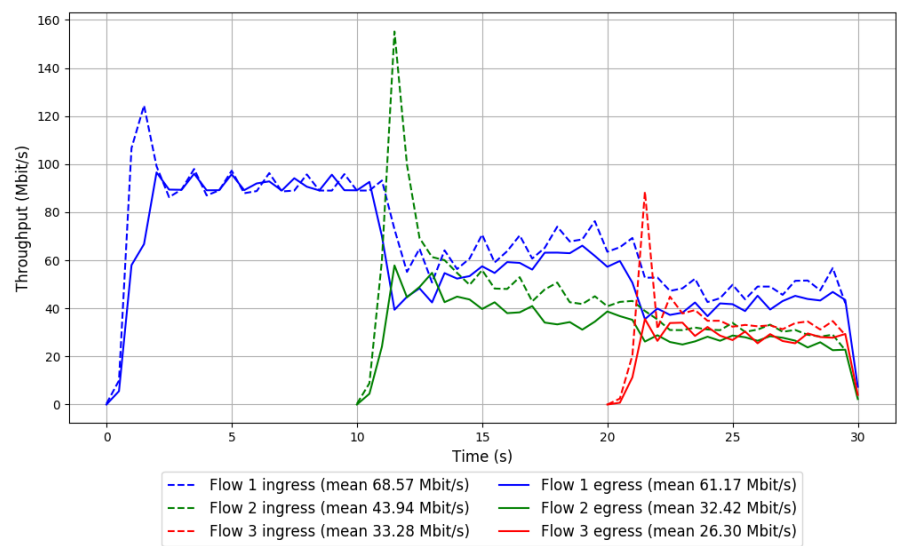
-- Flow 3:

Average throughput: 26.30 Mbit/s

95th percentile per-packet one-way delay: 129.965 ms

Loss rate: 22.12%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-04-24 22:29:51

End at: 2018-04-24 22:30:21

Local clock offset: -5.365 ms

Remote clock offset: 7.203 ms

Below is generated by plot.py at 2018-04-25 01:16:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.49 Mbit/s

95th percentile per-packet one-way delay: 130.401 ms

Loss rate: 13.14%

-- Flow 1:

Average throughput: 60.16 Mbit/s

95th percentile per-packet one-way delay: 129.118 ms

Loss rate: 9.71%

-- Flow 2:

Average throughput: 34.42 Mbit/s

95th percentile per-packet one-way delay: 130.460 ms

Loss rate: 15.56%

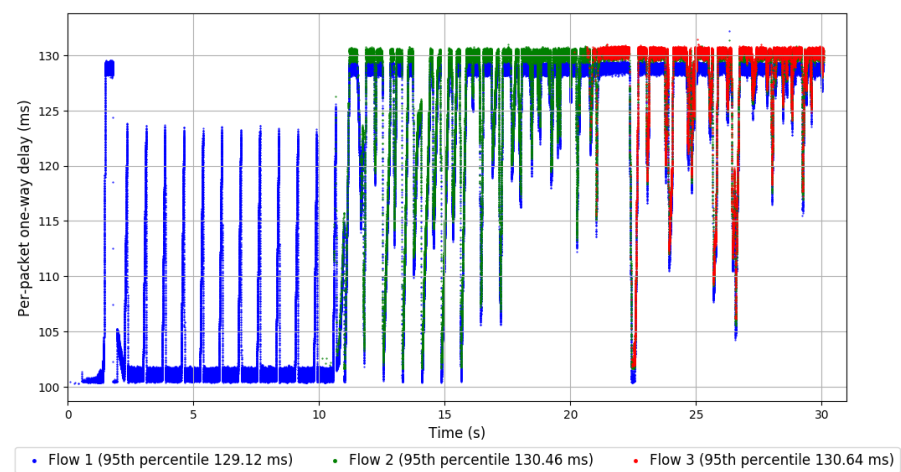
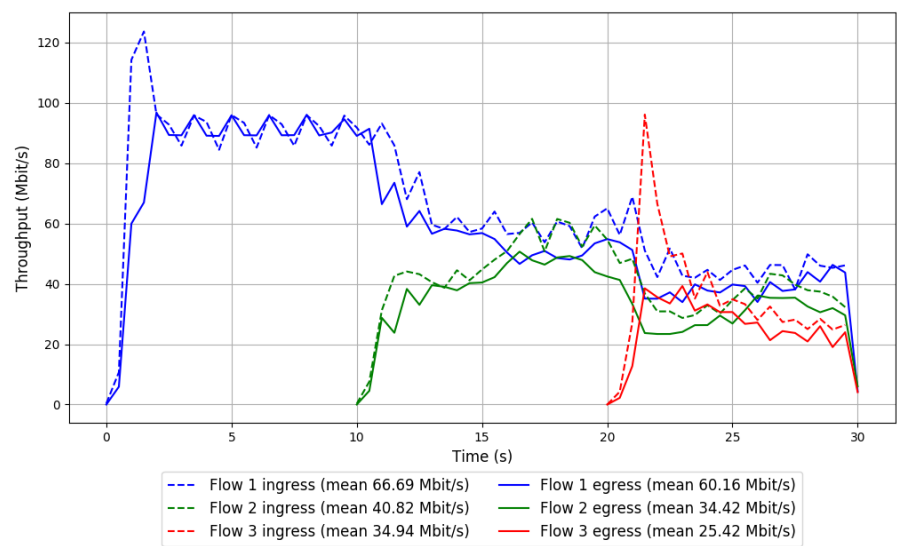
-- Flow 3:

Average throughput: 25.42 Mbit/s

95th percentile per-packet one-way delay: 130.642 ms

Loss rate: 27.25%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-04-24 22:52:21

End at: 2018-04-24 22:52:51

Local clock offset: -6.012 ms

Remote clock offset: 3.103 ms

Below is generated by plot.py at 2018-04-25 01:16:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 90.96 Mbit/s

95th percentile per-packet one-way delay: 129.676 ms

Loss rate: 16.67%

-- Flow 1:

Average throughput: 56.65 Mbit/s

95th percentile per-packet one-way delay: 129.742 ms

Loss rate: 12.02%

-- Flow 2:

Average throughput: 31.50 Mbit/s

95th percentile per-packet one-way delay: 125.873 ms

Loss rate: 23.59%

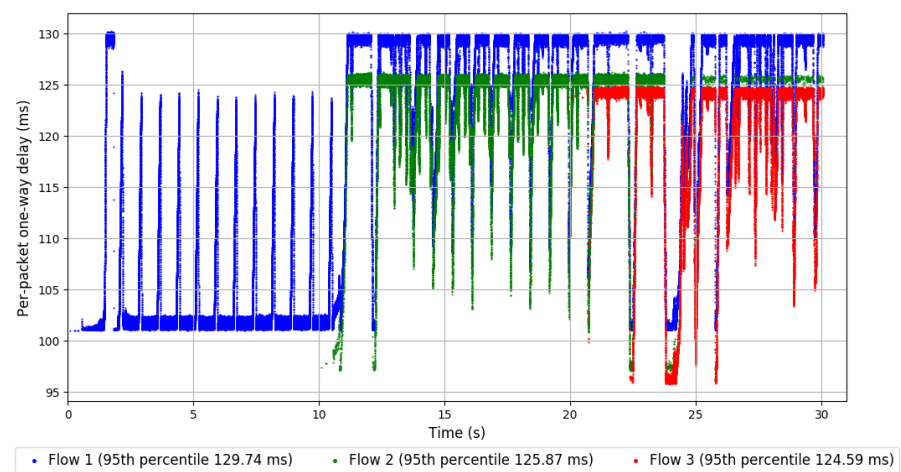
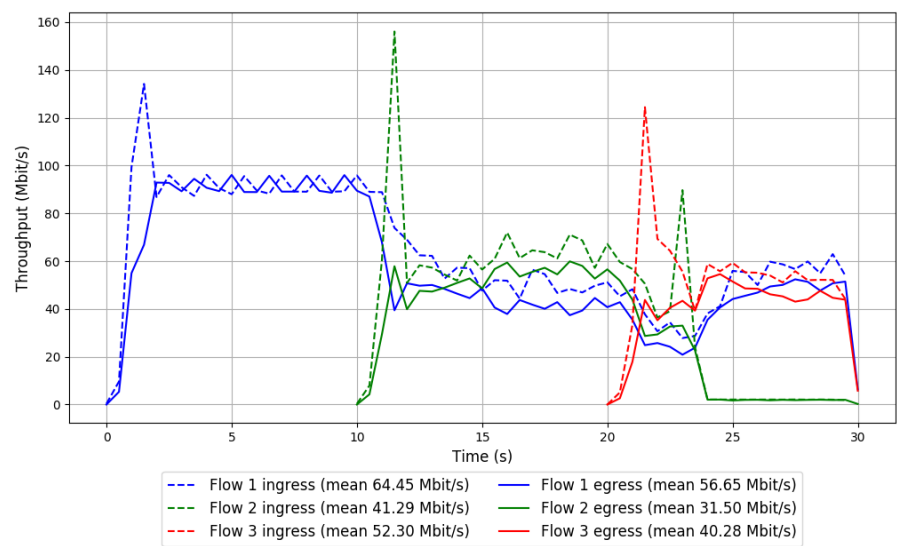
-- Flow 3:

Average throughput: 40.28 Mbit/s

95th percentile per-packet one-way delay: 124.588 ms

Loss rate: 22.97%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-04-24 23:14:57

End at: 2018-04-24 23:15:27

Local clock offset: -4.337 ms

Remote clock offset: 8.079 ms

Below is generated by plot.py at 2018-04-25 01:16:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.50 Mbit/s

95th percentile per-packet one-way delay: 131.424 ms

Loss rate: 16.21%

-- Flow 1:

Average throughput: 36.43 Mbit/s

95th percentile per-packet one-way delay: 129.778 ms

Loss rate: 13.89%

-- Flow 2:

Average throughput: 55.46 Mbit/s

95th percentile per-packet one-way delay: 131.548 ms

Loss rate: 16.22%

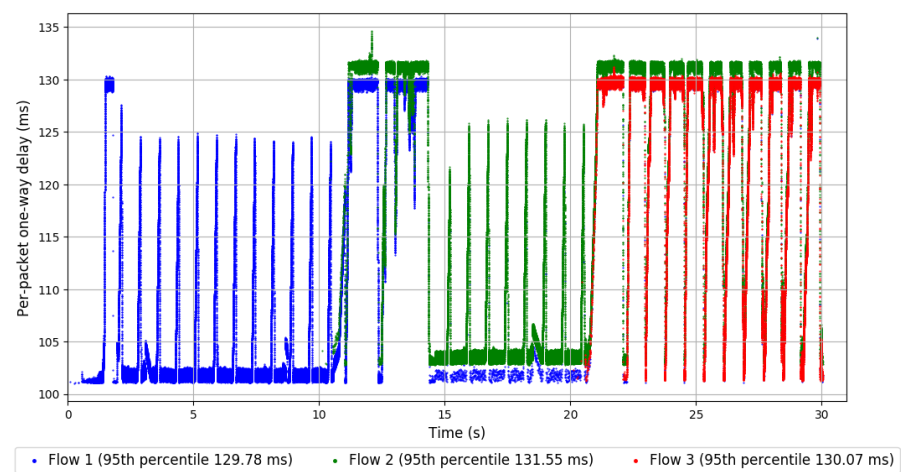
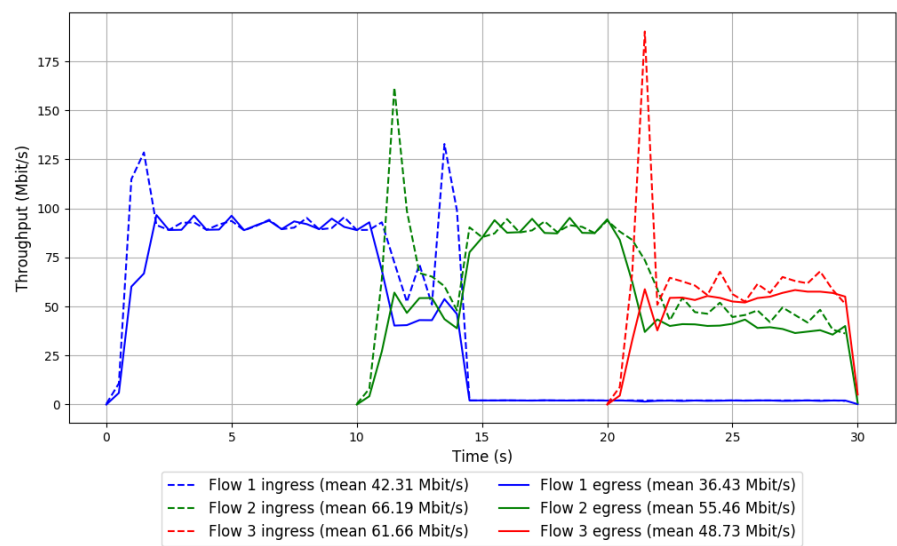
-- Flow 3:

Average throughput: 48.73 Mbit/s

95th percentile per-packet one-way delay: 130.068 ms

Loss rate: 20.98%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-04-24 23:37:32

End at: 2018-04-24 23:38:02

Local clock offset: -5.075 ms

Remote clock offset: 6.017 ms

Below is generated by plot.py at 2018-04-25 01:16:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.13 Mbit/s

95th percentile per-packet one-way delay: 128.944 ms

Loss rate: 17.46%

-- Flow 1:

Average throughput: 50.50 Mbit/s

95th percentile per-packet one-way delay: 127.553 ms

Loss rate: 12.72%

-- Flow 2:

Average throughput: 31.10 Mbit/s

95th percentile per-packet one-way delay: 128.898 ms

Loss rate: 27.39%

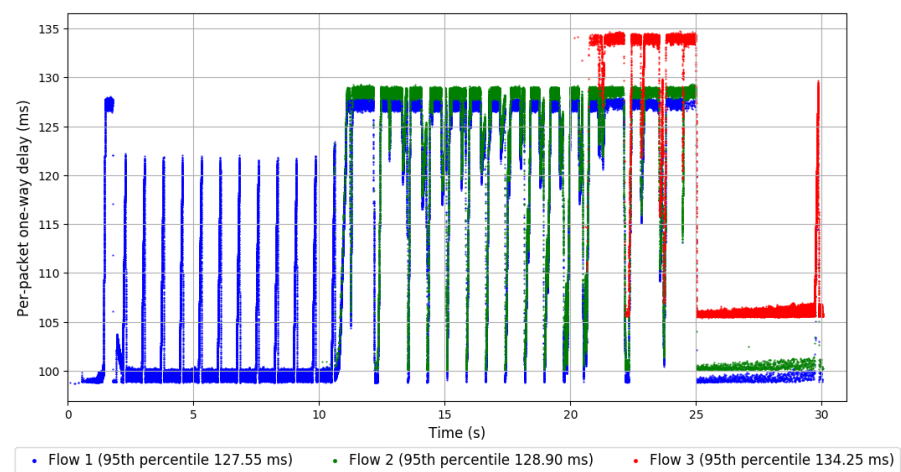
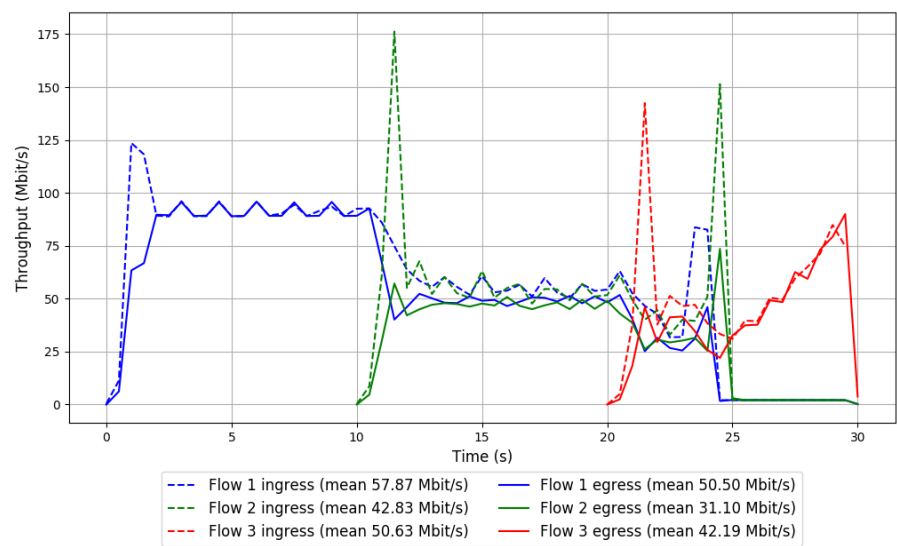
-- Flow 3:

Average throughput: 42.19 Mbit/s

95th percentile per-packet one-way delay: 134.253 ms

Loss rate: 16.92%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-04-24 23:59:47

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

Local clock offset: -5.068 ms

Remote clock offset: 2.859 ms

Below is generated by plot.py at 2018-04-25 01:16:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.73 Mbit/s

95th percentile per-packet one-way delay: 129.818 ms

Loss rate: 18.27%

-- Flow 1:

Average throughput: 35.47 Mbit/s

95th percentile per-packet one-way delay: 126.475 ms

Loss rate: 13.30%

-- Flow 2:

Average throughput: 61.71 Mbit/s

95th percentile per-packet one-way delay: 129.958 ms

Loss rate: 17.69%

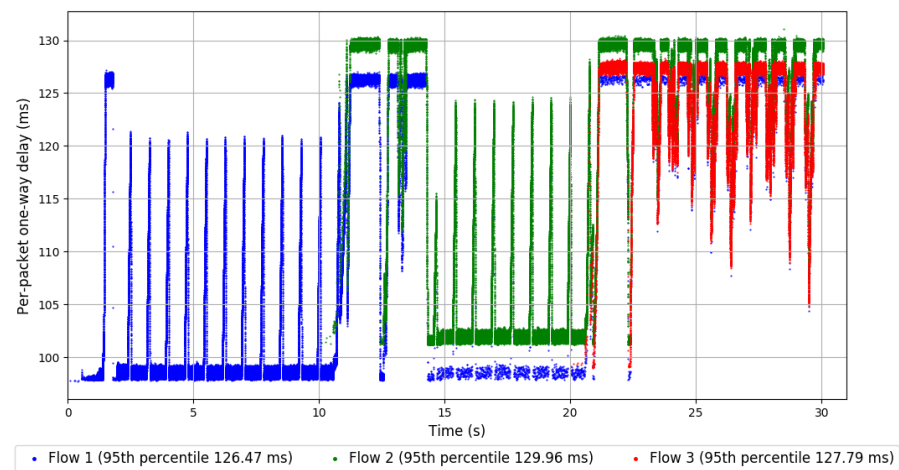
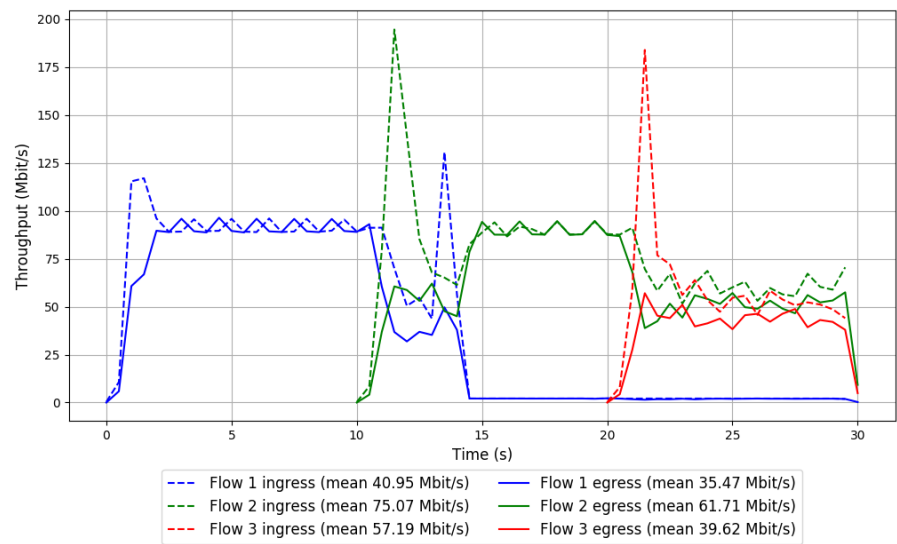
-- Flow 3:

Average throughput: 39.62 Mbit/s

95th percentile per-packet one-way delay: 127.790 ms

Loss rate: 30.53%

Run 9: Report of FillP — Data Link

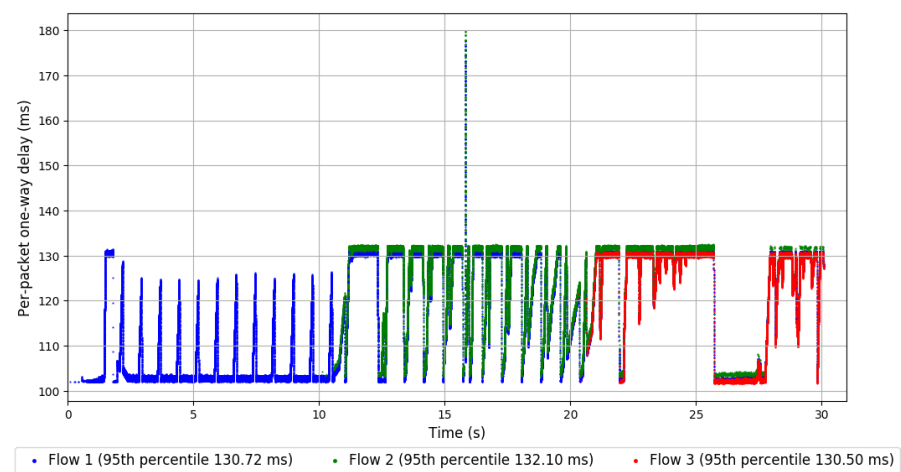
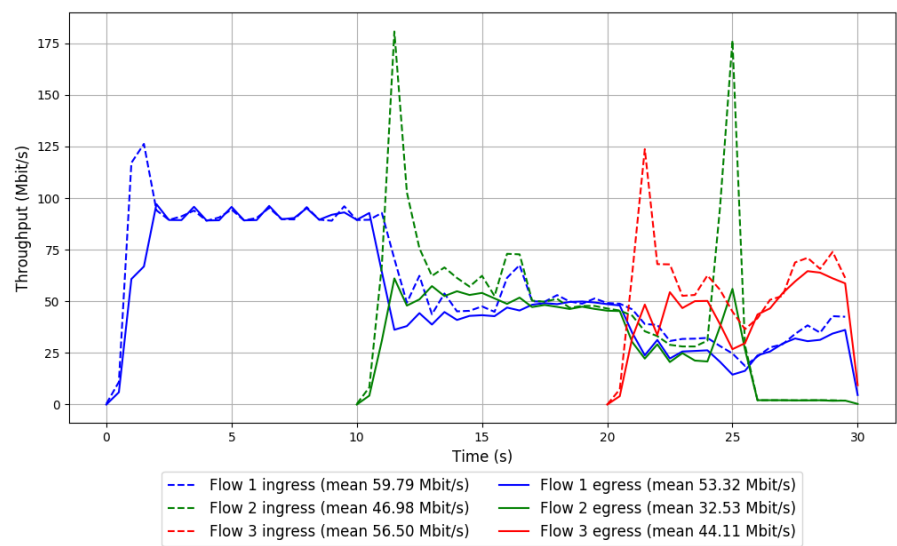


```
Run 10: Statistics of FillP

Start at: 2018-04-25 00:22:24
End at: 2018-04-25 00:22:54
Local clock offset: -4.982 ms
Remote clock offset: 7.797 ms

# Below is generated by plot.py at 2018-04-25 01:16:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 89.61 Mbit/s
95th percentile per-packet one-way delay: 131.923 ms
Loss rate: 18.31%
-- Flow 1:
Average throughput: 53.32 Mbit/s
95th percentile per-packet one-way delay: 130.721 ms
Loss rate: 10.74%
-- Flow 2:
Average throughput: 32.53 Mbit/s
95th percentile per-packet one-way delay: 132.105 ms
Loss rate: 30.67%
-- Flow 3:
Average throughput: 44.11 Mbit/s
95th percentile per-packet one-way delay: 130.505 ms
Loss rate: 21.84%
```

Run 10: Report of FillP — Data Link



Run 1: Statistics of Indigo-1-32

Start at: 2018-04-24 21:00:55

End at: 2018-04-24 21:01:25

Local clock offset: -3.999 ms

Remote clock offset: 3.77 ms

Below is generated by plot.py at 2018-04-25 01:16:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.28 Mbit/s

95th percentile per-packet one-way delay: 132.082 ms

Loss rate: 40.32%

-- Flow 1:

Average throughput: 62.54 Mbit/s

95th percentile per-packet one-way delay: 132.123 ms

Loss rate: 20.33%

-- Flow 2:

Average throughput: 20.07 Mbit/s

95th percentile per-packet one-way delay: 127.505 ms

Loss rate: 49.73%

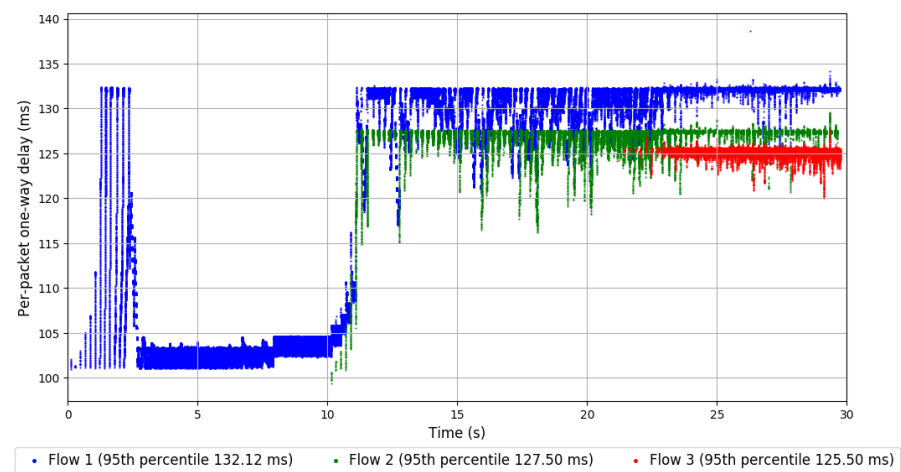
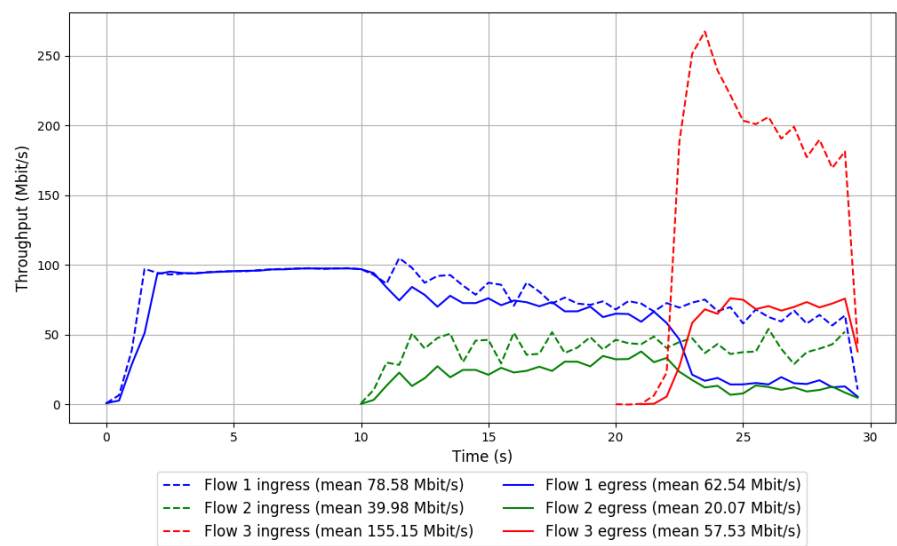
-- Flow 3:

Average throughput: 57.53 Mbit/s

95th percentile per-packet one-way delay: 125.503 ms

Loss rate: 66.81%

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



Run 2: Statistics of Indigo-1-32

Start at: 2018-04-24 21:23:31

End at: 2018-04-24 21:24:01

Local clock offset: -4.891 ms

Remote clock offset: 9.248 ms

Below is generated by plot.py at 2018-04-25 01:16:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.95 Mbit/s

95th percentile per-packet one-way delay: 134.607 ms

Loss rate: 37.46%

-- Flow 1:

Average throughput: 62.04 Mbit/s

95th percentile per-packet one-way delay: 134.297 ms

Loss rate: 21.68%

-- Flow 2:

Average throughput: 25.00 Mbit/s

95th percentile per-packet one-way delay: 134.815 ms

Loss rate: 39.97%

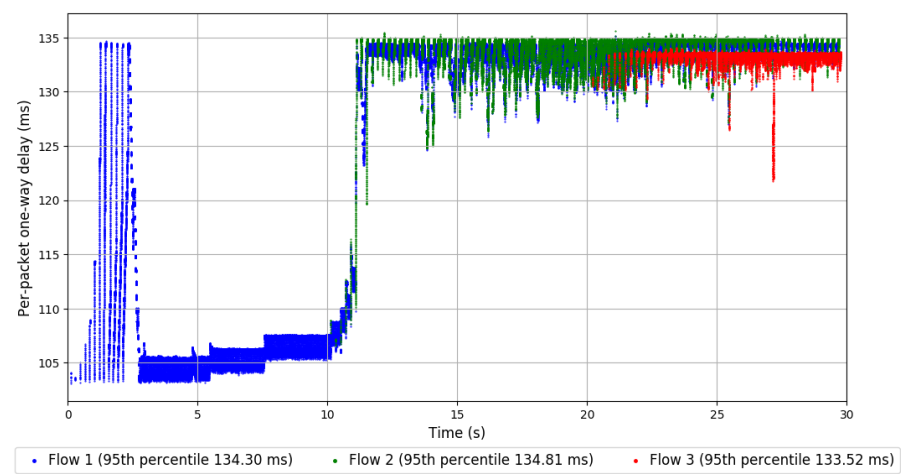
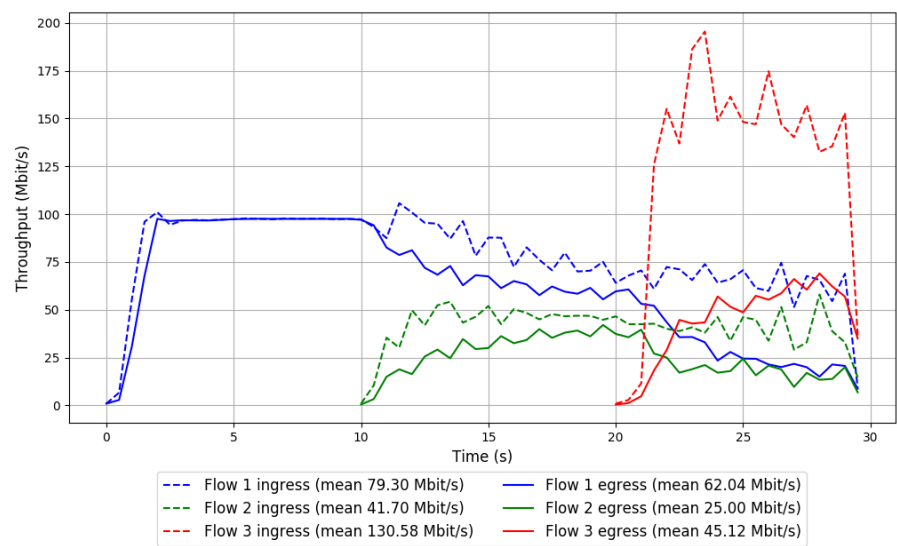
-- Flow 3:

Average throughput: 45.12 Mbit/s

95th percentile per-packet one-way delay: 133.521 ms

Loss rate: 65.44%

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



Run 3: Statistics of Indigo-1-32

Start at: 2018-04-24 21:46:08

End at: 2018-04-24 21:46:38

Local clock offset: -5.724 ms

Remote clock offset: 8.383 ms

Below is generated by plot.py at 2018-04-25 01:16:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.39 Mbit/s

95th percentile per-packet one-way delay: 139.538 ms

Loss rate: 39.57%

-- Flow 1:

Average throughput: 61.78 Mbit/s

95th percentile per-packet one-way delay: 135.277 ms

Loss rate: 21.49%

-- Flow 2:

Average throughput: 24.60 Mbit/s

95th percentile per-packet one-way delay: 139.724 ms

Loss rate: 52.69%

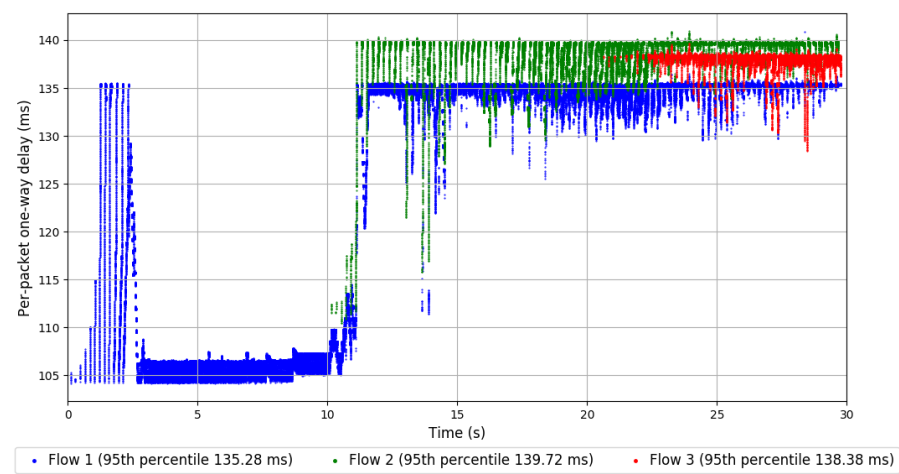
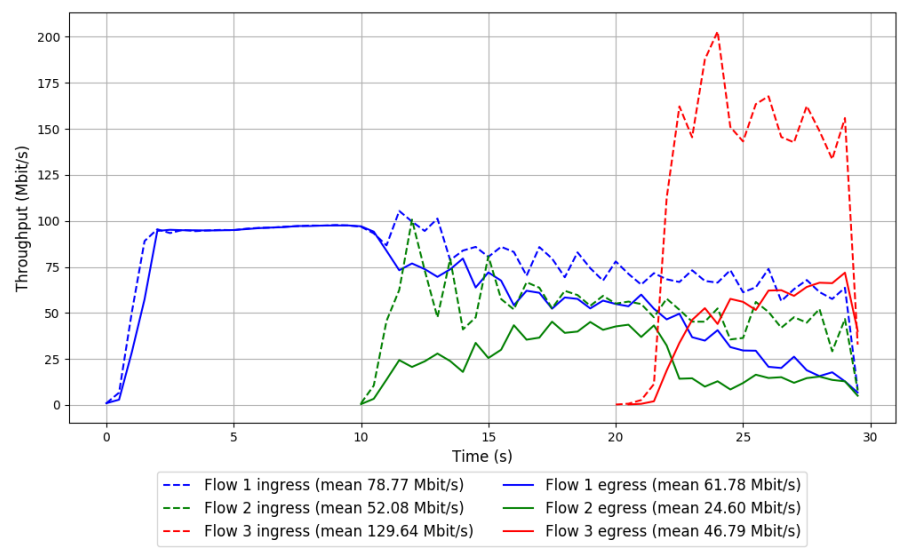
-- Flow 3:

Average throughput: 46.79 Mbit/s

95th percentile per-packet one-way delay: 138.379 ms

Loss rate: 63.92%

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



Run 4: Statistics of Indigo-1-32

Start at: 2018-04-24 22:08:37

End at: 2018-04-24 22:09:07

Local clock offset: -5.63 ms

Remote clock offset: 4.362 ms

Below is generated by plot.py at 2018-04-25 01:17:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.72 Mbit/s

95th percentile per-packet one-way delay: 136.201 ms

Loss rate: 42.48%

-- Flow 1:

Average throughput: 60.47 Mbit/s

95th percentile per-packet one-way delay: 130.503 ms

Loss rate: 23.51%

-- Flow 2:

Average throughput: 27.90 Mbit/s

95th percentile per-packet one-way delay: 136.339 ms

Loss rate: 49.46%

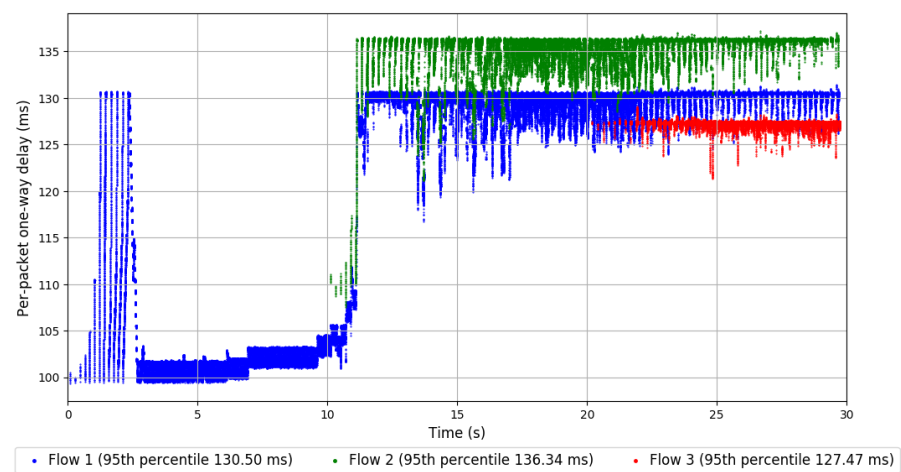
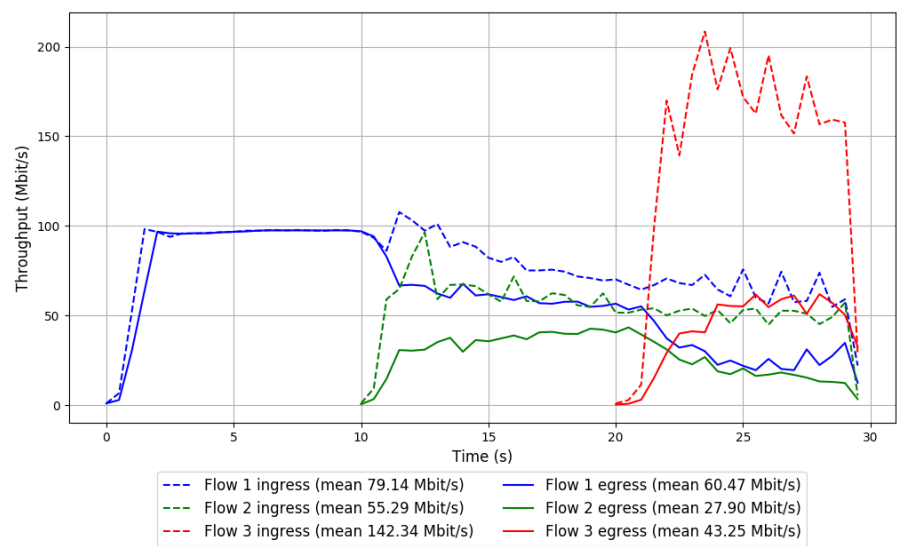
-- Flow 3:

Average throughput: 43.25 Mbit/s

95th percentile per-packet one-way delay: 127.467 ms

Loss rate: 69.61%

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



Run 5: Statistics of Indigo-1-32

Start at: 2018-04-24 22:31:10

End at: 2018-04-24 22:31:40

Local clock offset: -4.651 ms

Remote clock offset: 4.141 ms

Below is generated by plot.py at 2018-04-25 01:17:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.11 Mbit/s

95th percentile per-packet one-way delay: 132.914 ms

Loss rate: 34.72%

-- Flow 1:

Average throughput: 63.56 Mbit/s

95th percentile per-packet one-way delay: 132.918 ms

Loss rate: 18.37%

-- Flow 2:

Average throughput: 19.04 Mbit/s

95th percentile per-packet one-way delay: 125.943 ms

Loss rate: 48.81%

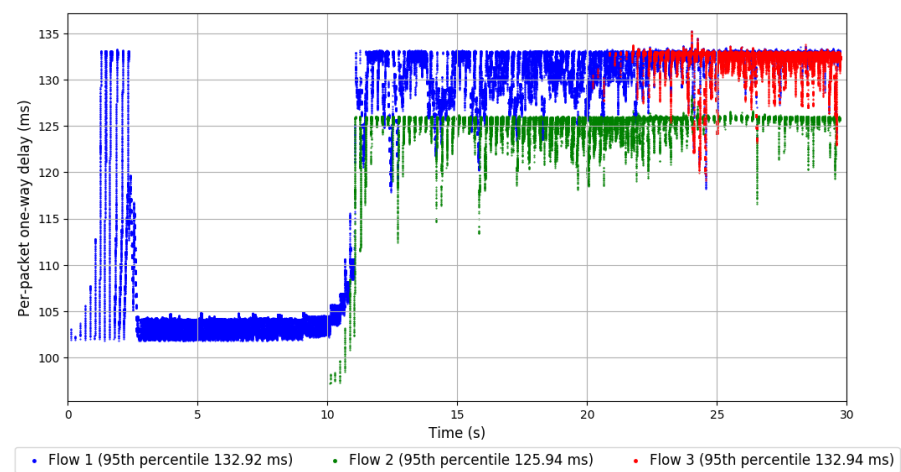
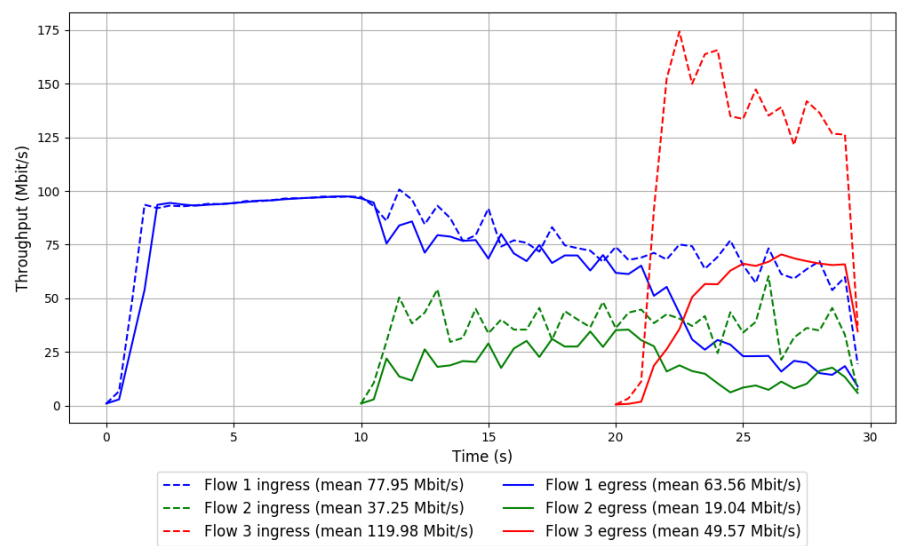
-- Flow 3:

Average throughput: 49.57 Mbit/s

95th percentile per-packet one-way delay: 132.942 ms

Loss rate: 58.69%

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



Run 6: Statistics of Indigo-1-32

Start at: 2018-04-24 22:53:41

End at: 2018-04-24 22:54:11

Local clock offset: -6.051 ms

Remote clock offset: 7.817 ms

Below is generated by plot.py at 2018-04-25 01:17:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.93 Mbit/s

95th percentile per-packet one-way delay: 133.558 ms

Loss rate: 44.72%

-- Flow 1:

Average throughput: 66.66 Mbit/s

95th percentile per-packet one-way delay: 133.573 ms

Loss rate: 23.12%

-- Flow 2:

Average throughput: 14.41 Mbit/s

95th percentile per-packet one-way delay: 131.460 ms

Loss rate: 63.75%

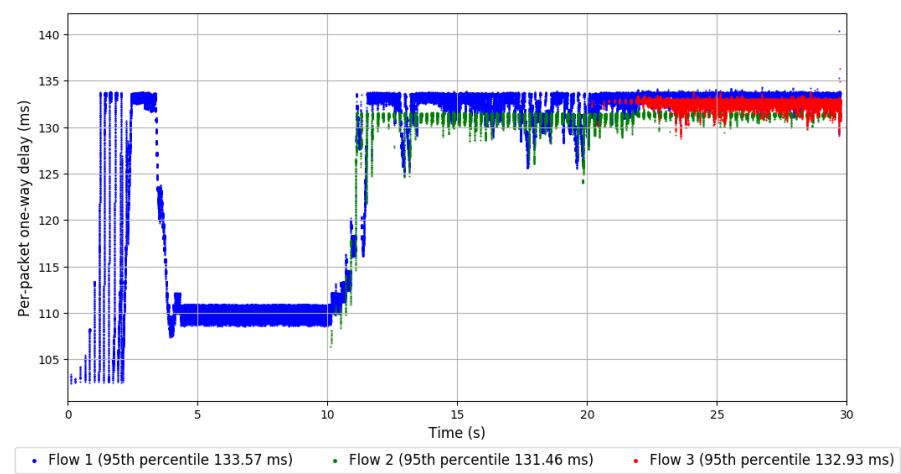
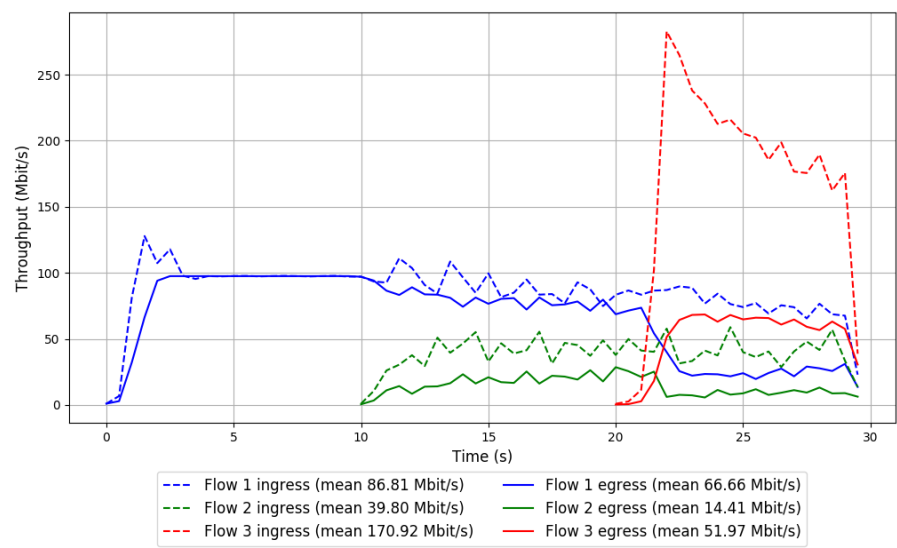
-- Flow 3:

Average throughput: 51.97 Mbit/s

95th percentile per-packet one-way delay: 132.928 ms

Loss rate: 69.59%

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



Run 7: Statistics of Indigo-1-32

Start at: 2018-04-24 23:16:17

End at: 2018-04-24 23:16:47

Local clock offset: -5.121 ms

Remote clock offset: 6.377 ms

Below is generated by plot.py at 2018-04-25 01:17:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.45 Mbit/s

95th percentile per-packet one-way delay: 138.318 ms

Loss rate: 31.25%

-- Flow 1:

Average throughput: 65.06 Mbit/s

95th percentile per-packet one-way delay: 131.287 ms

Loss rate: 16.43%

-- Flow 2:

Average throughput: 18.59 Mbit/s

95th percentile per-packet one-way delay: 128.351 ms

Loss rate: 49.44%

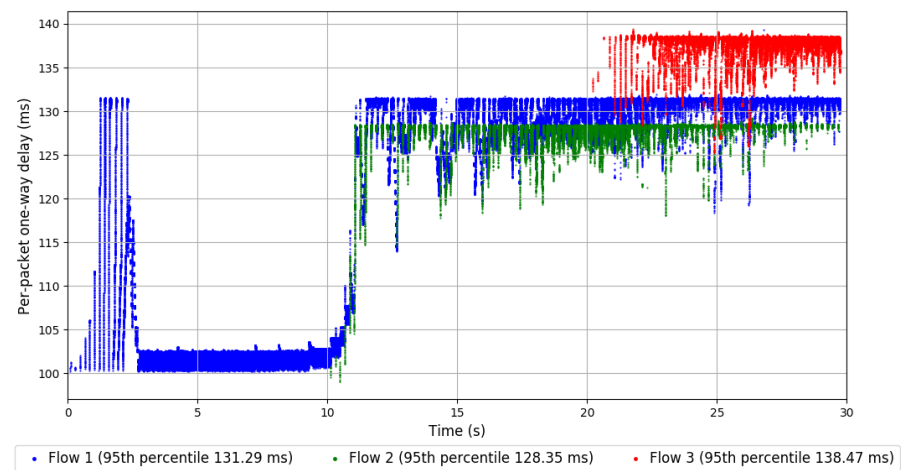
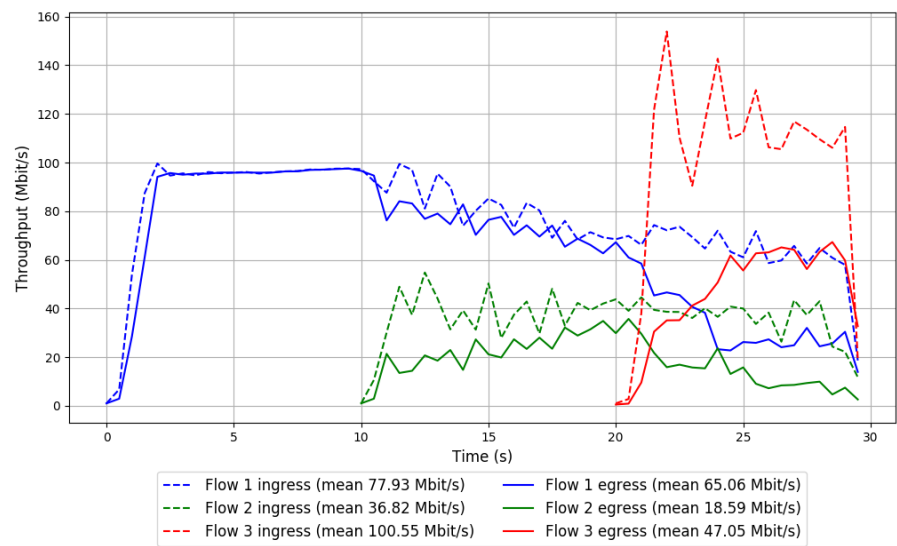
-- Flow 3:

Average throughput: 47.05 Mbit/s

95th percentile per-packet one-way delay: 138.472 ms

Loss rate: 53.22%

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



Run 8: Statistics of Indigo-1-32

Start at: 2018-04-24 23:38:51

End at: 2018-04-24 23:39:22

Local clock offset: -5.095 ms

Remote clock offset: 6.842 ms

Below is generated by plot.py at 2018-04-25 01:17:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.89 Mbit/s

95th percentile per-packet one-way delay: 133.985 ms

Loss rate: 37.50%

-- Flow 1:

Average throughput: 60.40 Mbit/s

95th percentile per-packet one-way delay: 132.465 ms

Loss rate: 22.88%

-- Flow 2:

Average throughput: 25.12 Mbit/s

95th percentile per-packet one-way delay: 133.936 ms

Loss rate: 45.45%

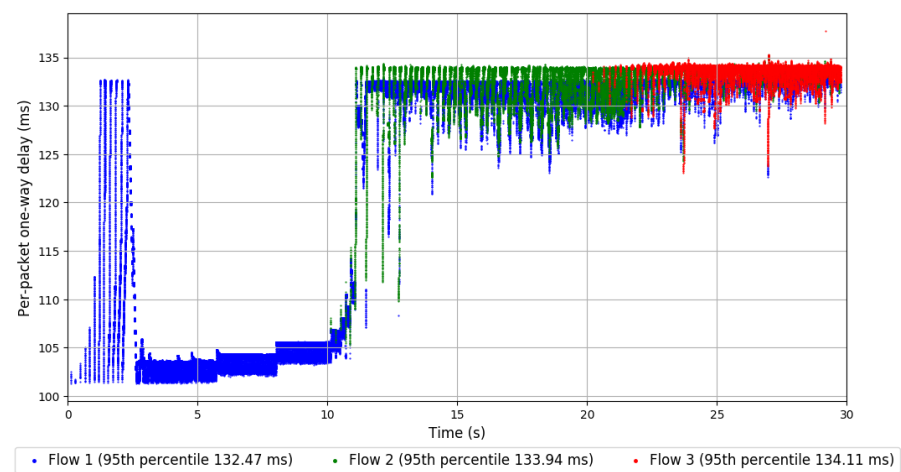
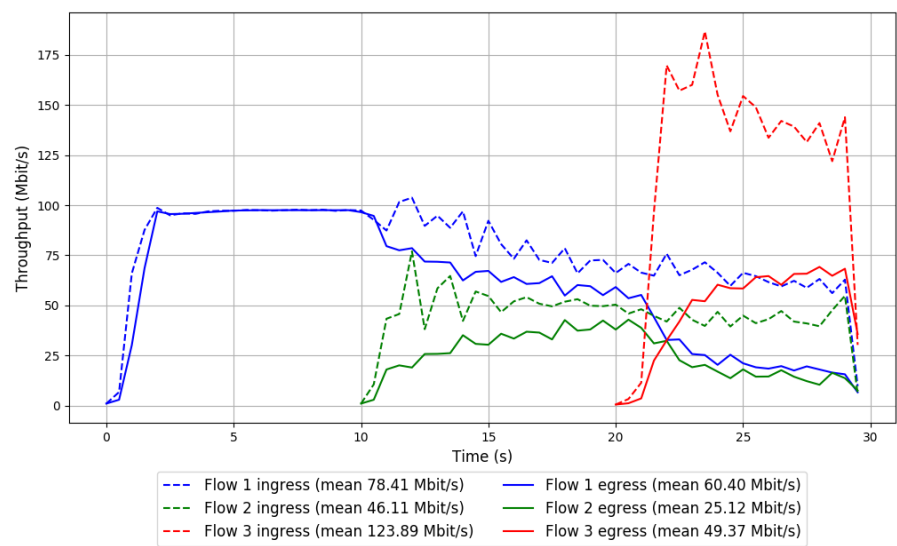
-- Flow 3:

Average throughput: 49.37 Mbit/s

95th percentile per-packet one-way delay: 134.113 ms

Loss rate: 60.15%

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



Run 9: Statistics of Indigo-1-32

Start at: 2018-04-25 00:01:07

End at: 2018-04-25 00:01:37

Local clock offset: -4.968 ms

Remote clock offset: 7.451 ms

Below is generated by plot.py at 2018-04-25 01:18:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.91 Mbit/s

95th percentile per-packet one-way delay: 140.014 ms

Loss rate: 43.21%

-- Flow 1:

Average throughput: 58.35 Mbit/s

95th percentile per-packet one-way delay: 133.194 ms

Loss rate: 26.55%

-- Flow 2:

Average throughput: 27.01 Mbit/s

95th percentile per-packet one-way delay: 134.496 ms

Loss rate: 47.72%

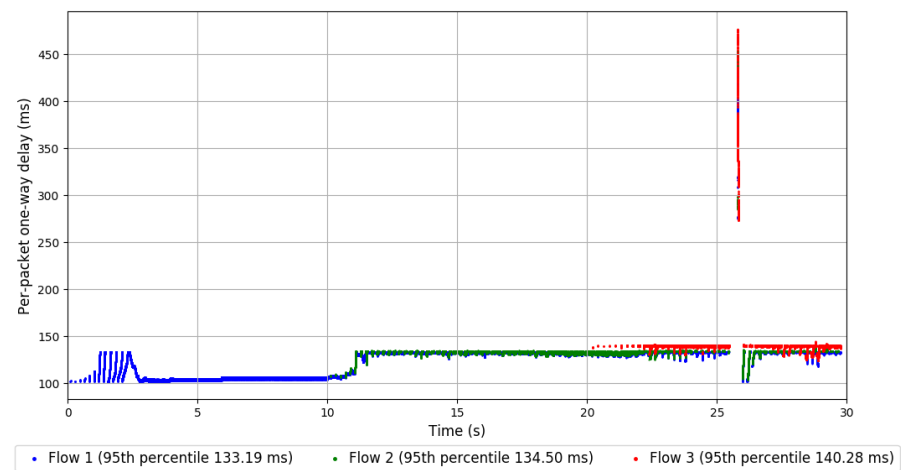
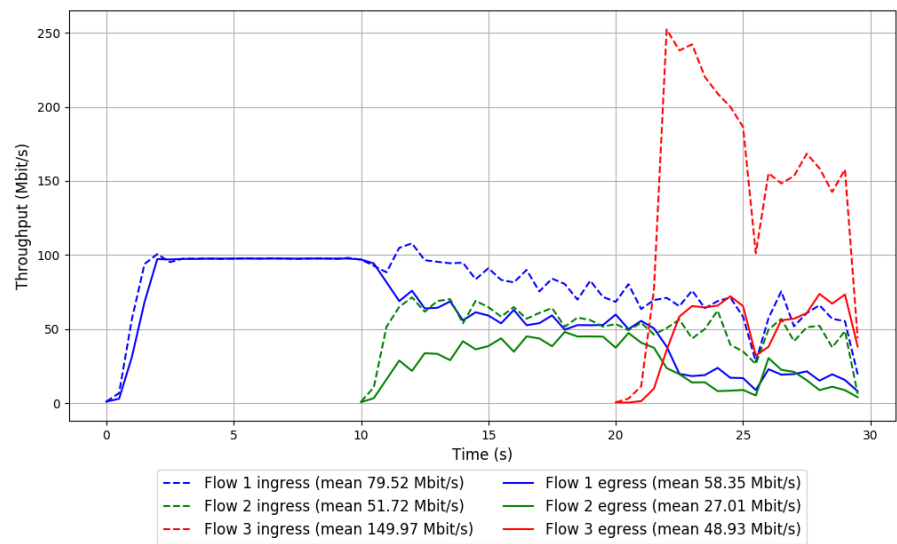
-- Flow 3:

Average throughput: 48.93 Mbit/s

95th percentile per-packet one-way delay: 140.282 ms

Loss rate: 67.39%

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



Run 10: Statistics of Indigo-1-32

Start at: 2018-04-25 00:23:43

End at: 2018-04-25 00:24:13

Local clock offset: -5.749 ms

Remote clock offset: 2.409 ms

Below is generated by plot.py at 2018-04-25 01:18:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.65 Mbit/s

95th percentile per-packet one-way delay: 128.120 ms

Loss rate: 36.47%

-- Flow 1:

Average throughput: 57.04 Mbit/s

95th percentile per-packet one-way delay: 125.266 ms

Loss rate: 20.84%

-- Flow 2:

Average throughput: 32.45 Mbit/s

95th percentile per-packet one-way delay: 128.114 ms

Loss rate: 40.21%

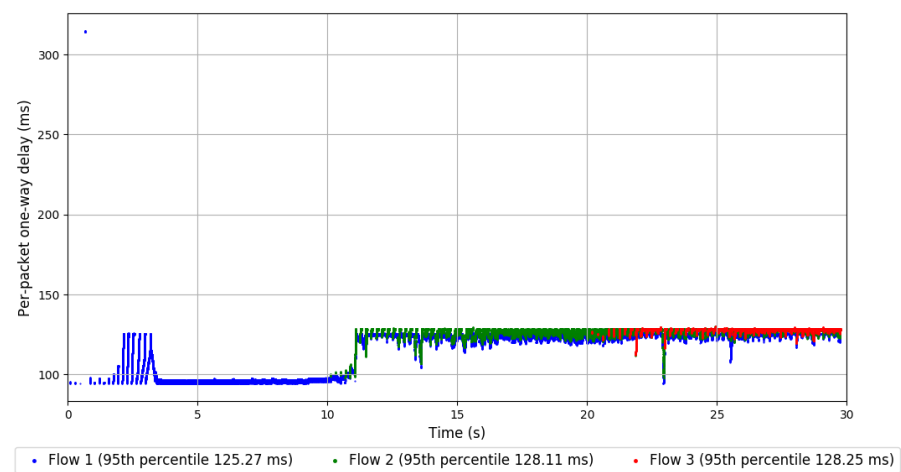
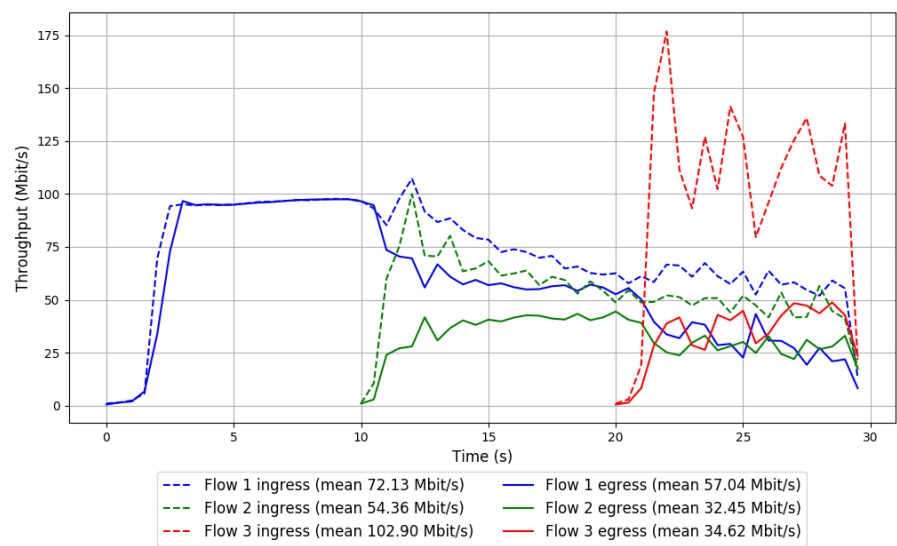
-- Flow 3:

Average throughput: 34.62 Mbit/s

95th percentile per-packet one-way delay: 128.254 ms

Loss rate: 66.35%

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



Run 1: Statistics of PCC-Vivace

Start at: 2018-04-24 20:54:29

End at: 2018-04-24 20:54:59

Local clock offset: -3.991 ms

Remote clock offset: 9.13 ms

Below is generated by plot.py at 2018-04-25 01:18:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 77.82 Mbit/s

95th percentile per-packet one-way delay: 129.665 ms

Loss rate: 1.01%

-- Flow 1:

Average throughput: 67.75 Mbit/s

95th percentile per-packet one-way delay: 129.589 ms

Loss rate: 0.80%

-- Flow 2:

Average throughput: 10.15 Mbit/s

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

Loss rate: 2.39%

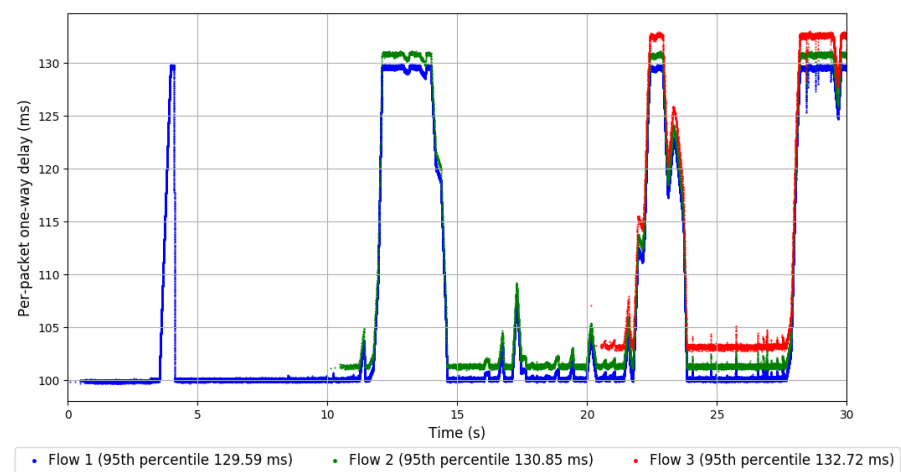
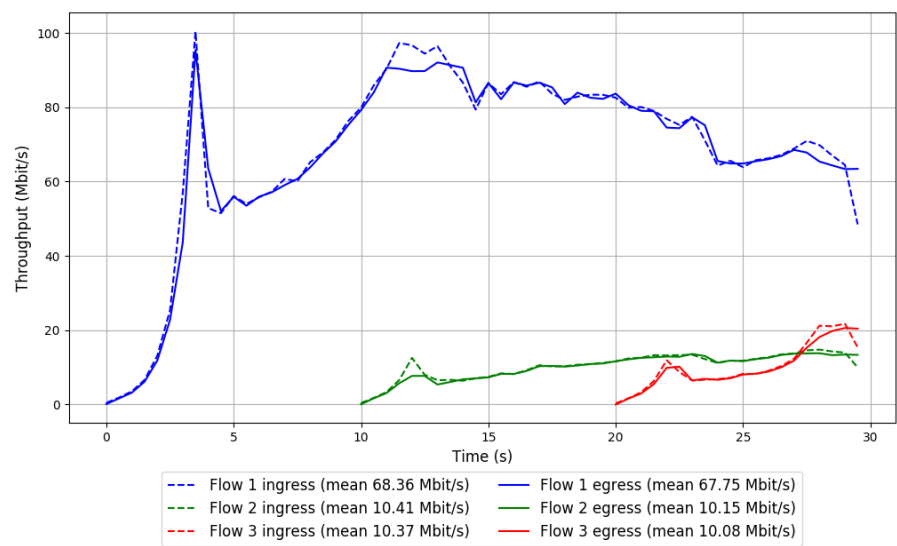
-- Flow 3:

Average throughput: 10.08 Mbit/s

95th percentile per-packet one-way delay: 132.716 ms

Loss rate: 2.51%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2018-04-24 21:17:05

End at: 2018-04-24 21:17:35

Local clock offset: -5.713 ms

Remote clock offset: 7.707 ms

Below is generated by plot.py at 2018-04-25 01:18:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 76.04 Mbit/s

95th percentile per-packet one-way delay: 130.686 ms

Loss rate: 0.60%

-- Flow 1:

Average throughput: 62.73 Mbit/s

95th percentile per-packet one-way delay: 130.698 ms

Loss rate: 0.53%

-- Flow 2:

Average throughput: 16.52 Mbit/s

95th percentile per-packet one-way delay: 129.552 ms

Loss rate: 1.00%

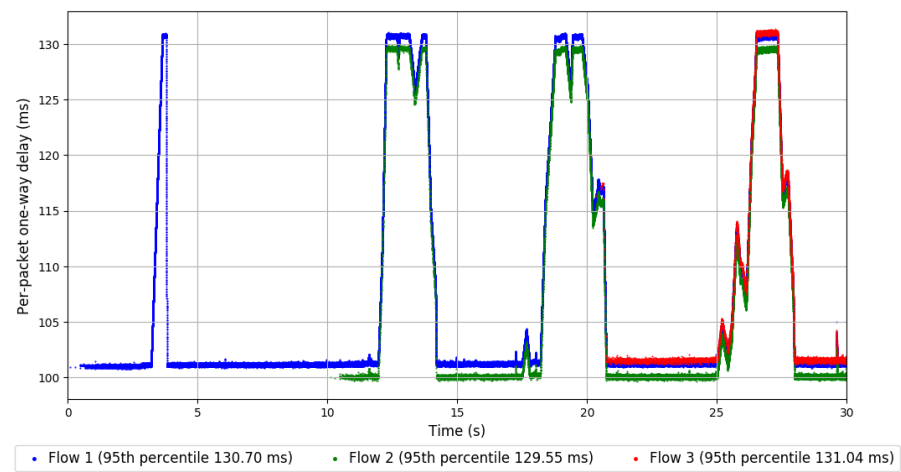
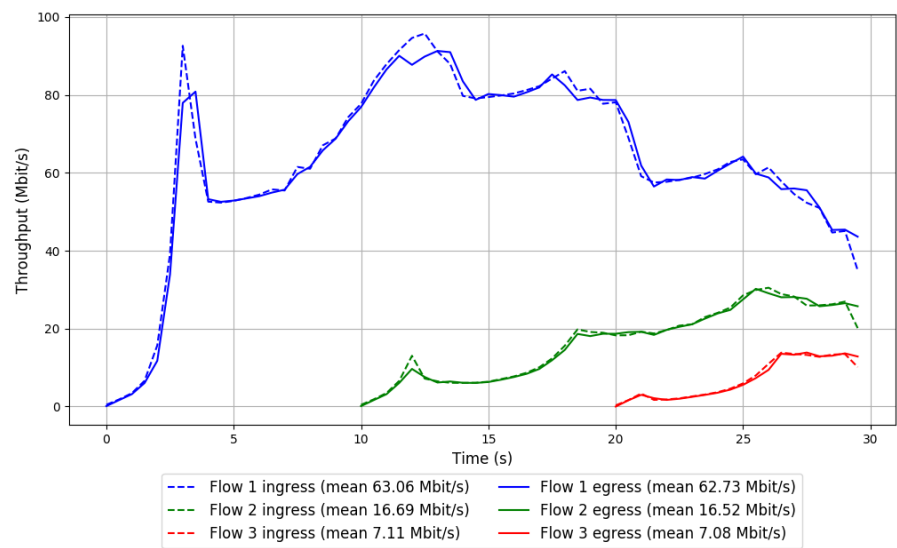
-- Flow 3:

Average throughput: 7.08 Mbit/s

95th percentile per-packet one-way delay: 131.045 ms

Loss rate: 0.58%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2018-04-24 21:39:42

End at: 2018-04-24 21:40:12

Local clock offset: -5.722 ms

Remote clock offset: 8.341 ms

Below is generated by plot.py at 2018-04-25 01:18:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 78.91 Mbit/s

95th percentile per-packet one-way delay: 135.110 ms

Loss rate: 1.37%

-- Flow 1:

Average throughput: 64.87 Mbit/s

95th percentile per-packet one-way delay: 135.126 ms

Loss rate: 1.30%

-- Flow 2:

Average throughput: 14.16 Mbit/s

95th percentile per-packet one-way delay: 129.828 ms

Loss rate: 1.78%

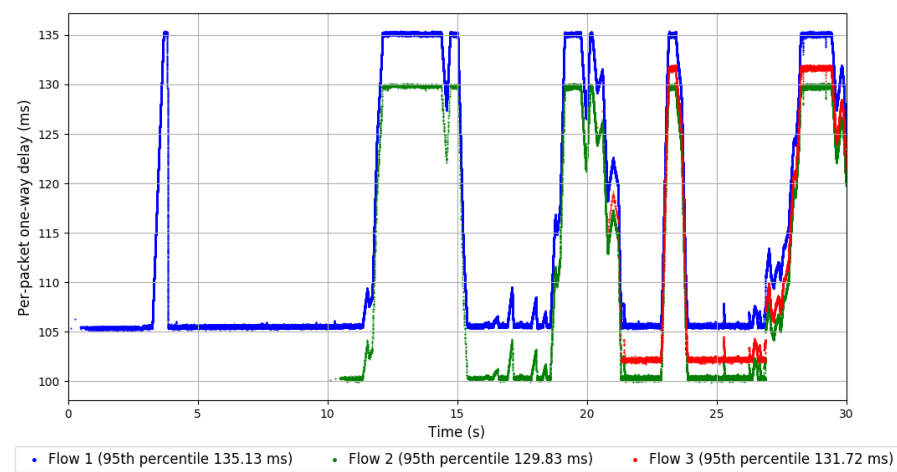
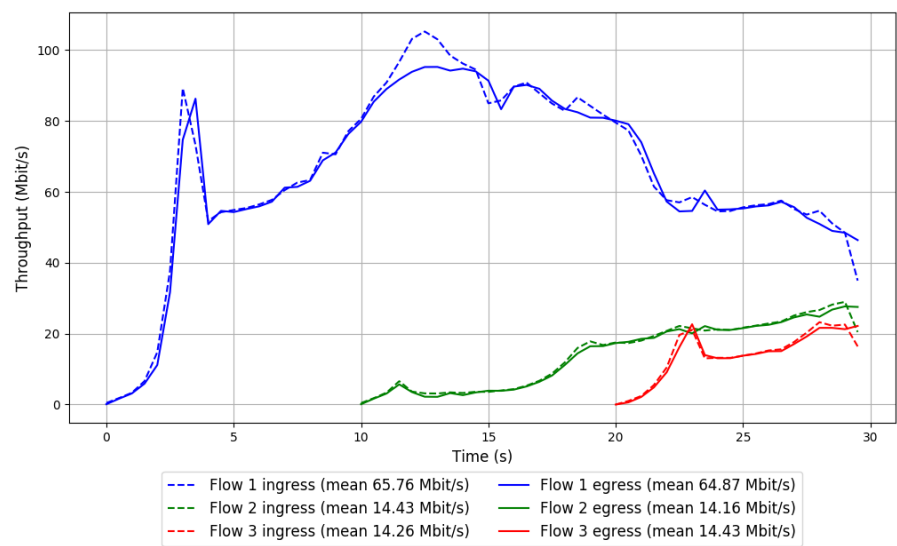
-- Flow 3:

Average throughput: 14.43 Mbit/s

95th percentile per-packet one-way delay: 131.720 ms

Loss rate: 1.48%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2018-04-24 22:02:11

End at: 2018-04-24 22:02:41

Local clock offset: -4.896 ms

Remote clock offset: 9.055 ms

Below is generated by plot.py at 2018-04-25 01:18:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 78.46 Mbit/s

95th percentile per-packet one-way delay: 128.842 ms

Loss rate: 0.20%

-- Flow 1:

Average throughput: 68.01 Mbit/s

95th percentile per-packet one-way delay: 130.309 ms

Loss rate: 0.20%

-- Flow 2:

Average throughput: 13.76 Mbit/s

95th percentile per-packet one-way delay: 111.407 ms

Loss rate: 0.23%

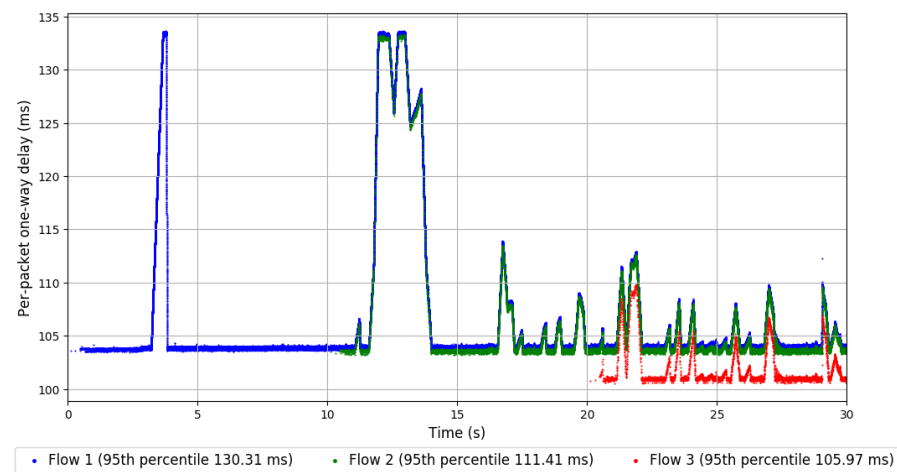
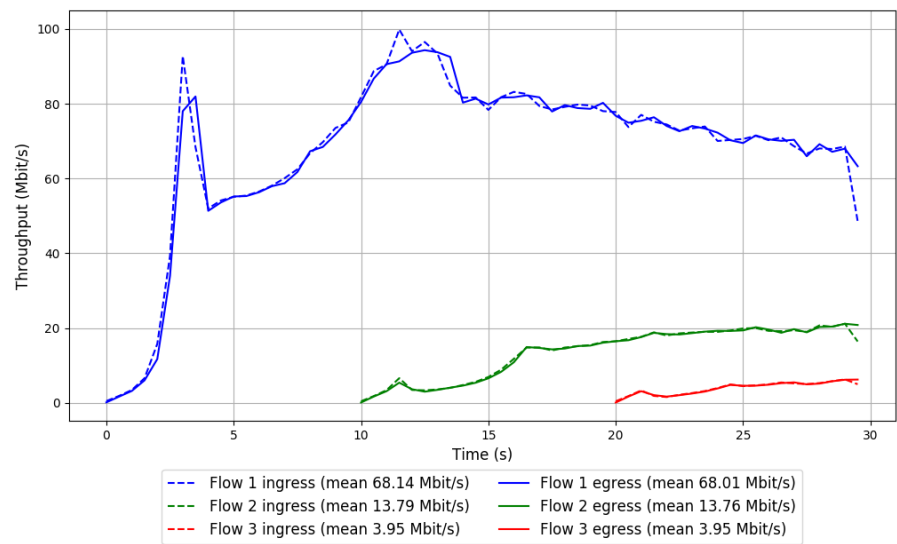
-- Flow 3:

Average throughput: 3.95 Mbit/s

95th percentile per-packet one-way delay: 105.966 ms

Loss rate: 0.00%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

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

End at: 2018-04-24 22:25:14

Local clock offset: -4.592 ms

Remote clock offset: 7.972 ms

Below is generated by plot.py at 2018-04-25 01:18:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 77.98 Mbit/s

95th percentile per-packet one-way delay: 129.492 ms

Loss rate: 0.54%

-- Flow 1:

Average throughput: 67.48 Mbit/s

95th percentile per-packet one-way delay: 129.501 ms

Loss rate: 0.50%

-- Flow 2:

Average throughput: 12.59 Mbit/s

95th percentile per-packet one-way delay: 129.483 ms

Loss rate: 0.95%

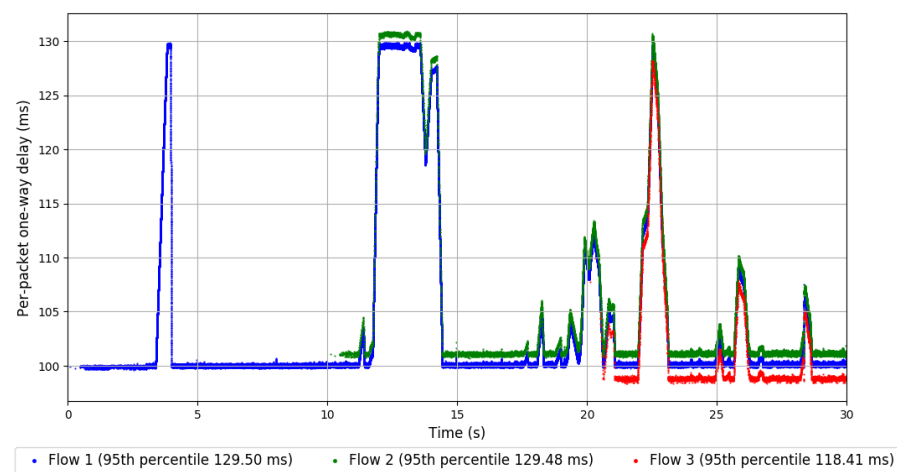
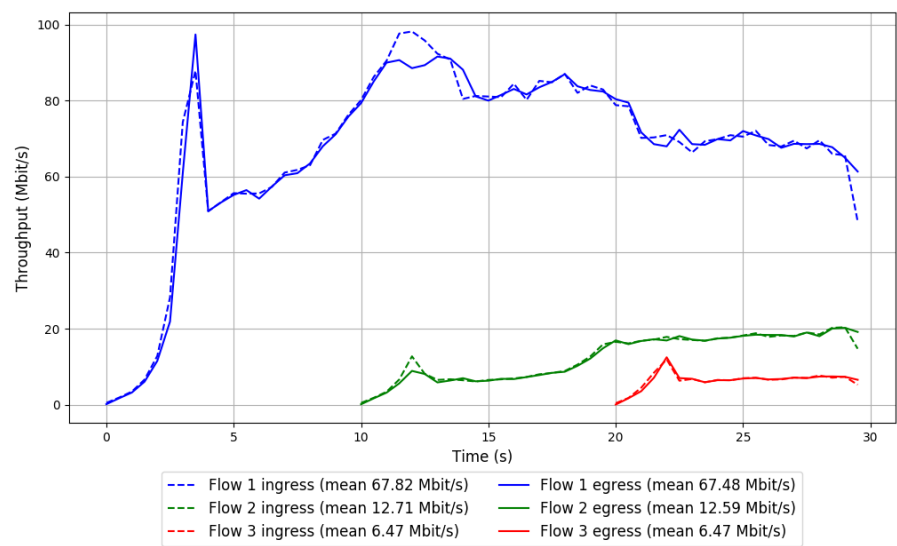
-- Flow 3:

Average throughput: 6.47 Mbit/s

95th percentile per-packet one-way delay: 118.414 ms

Loss rate: 0.02%

Run 5: Report of PCC-Vivace — Data Link



Run 6: Statistics of PCC-Vivace

Start at: 2018-04-24 22:47:15

End at: 2018-04-24 22:47:45

Local clock offset: -6.075 ms

Remote clock offset: 4.008 ms

Below is generated by plot.py at 2018-04-25 01:18:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 76.78 Mbit/s

95th percentile per-packet one-way delay: 124.527 ms

Loss rate: 0.28%

-- Flow 1:

Average throughput: 63.11 Mbit/s

95th percentile per-packet one-way delay: 124.593 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 13.90 Mbit/s

95th percentile per-packet one-way delay: 123.574 ms

Loss rate: 0.28%

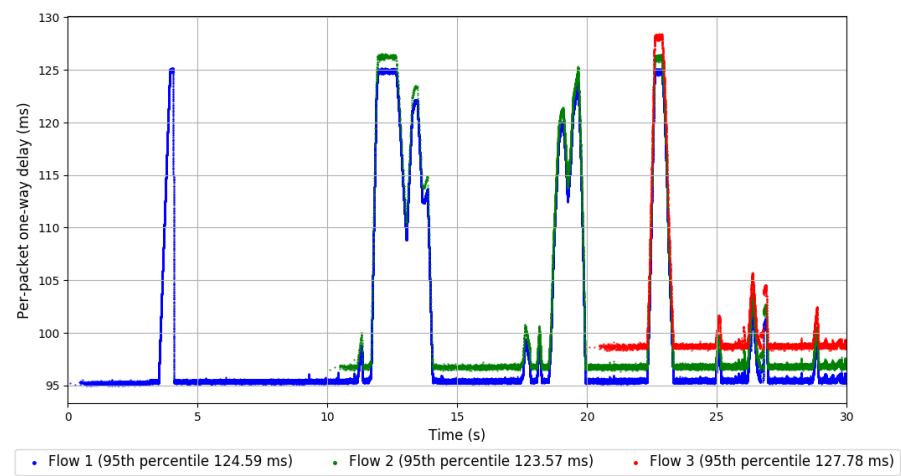
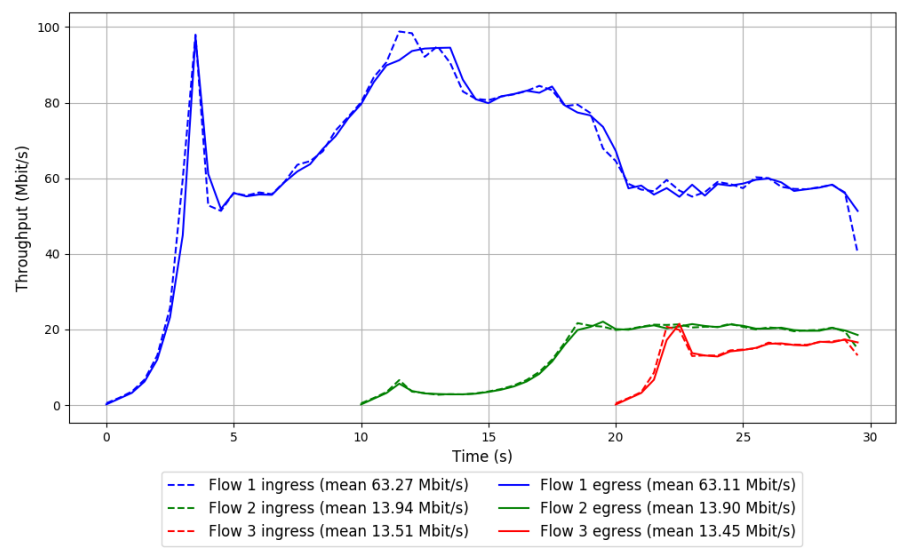
-- Flow 3:

Average throughput: 13.45 Mbit/s

95th percentile per-packet one-way delay: 127.778 ms

Loss rate: 0.48%

Run 6: Report of PCC-Vivace — Data Link



Run 7: Statistics of PCC-Vivace

Start at: 2018-04-24 23:09:51

End at: 2018-04-24 23:10:21

Local clock offset: -5.149 ms

Remote clock offset: 6.597 ms

Below is generated by plot.py at 2018-04-25 01:19:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 77.33 Mbit/s

95th percentile per-packet one-way delay: 128.330 ms

Loss rate: 0.58%

-- Flow 1:

Average throughput: 66.40 Mbit/s

95th percentile per-packet one-way delay: 128.251 ms

Loss rate: 0.49%

-- Flow 2:

Average throughput: 12.35 Mbit/s

95th percentile per-packet one-way delay: 130.456 ms

Loss rate: 1.20%

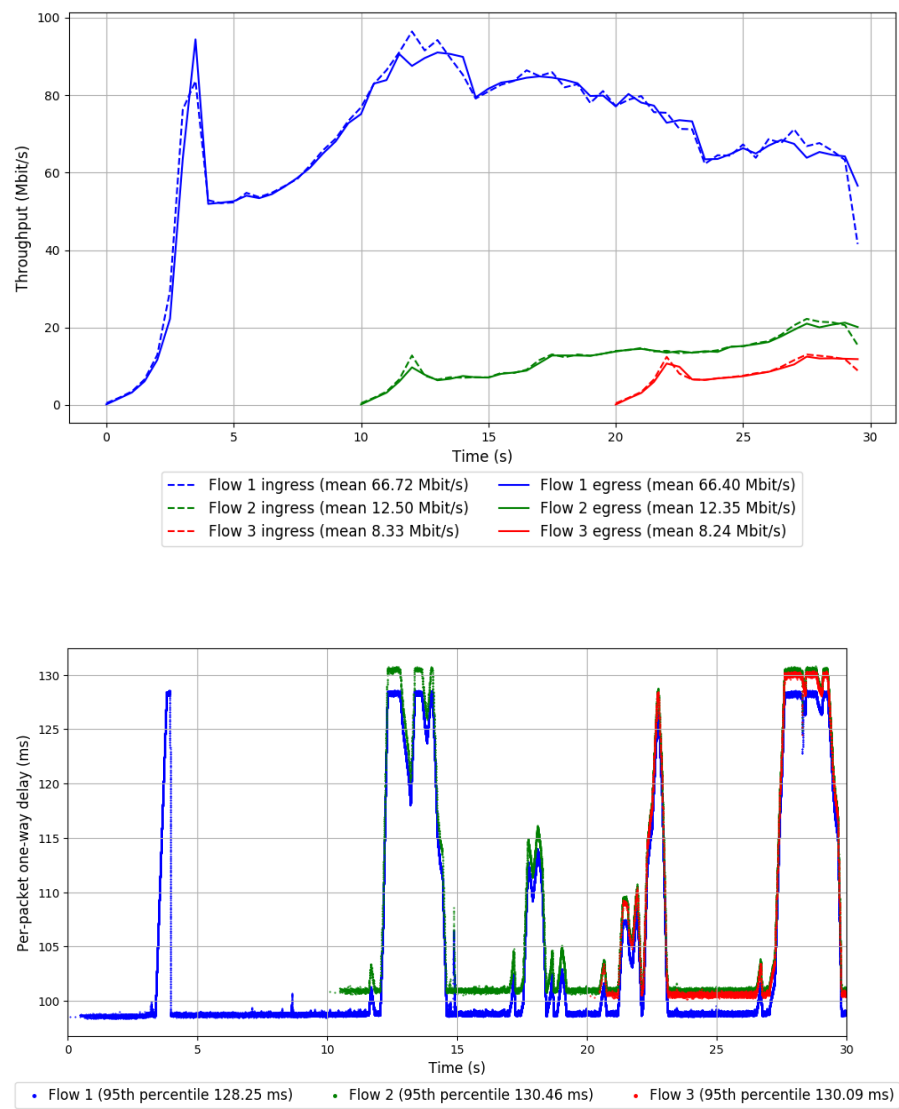
-- Flow 3:

Average throughput: 8.24 Mbit/s

95th percentile per-packet one-way delay: 130.092 ms

Loss rate: 1.10%

Run 7: Report of PCC-Vivace — Data Link



Run 8: Statistics of PCC-Vivace

Start at: 2018-04-24 23:32:26

End at: 2018-04-24 23:32:56

Local clock offset: -5.85 ms

Remote clock offset: 2.321 ms

Below is generated by plot.py at 2018-04-25 01:19:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 76.00 Mbit/s

95th percentile per-packet one-way delay: 120.949 ms

Loss rate: 0.28%

-- Flow 1:

Average throughput: 62.90 Mbit/s

95th percentile per-packet one-way delay: 121.072 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 16.83 Mbit/s

95th percentile per-packet one-way delay: 119.374 ms

Loss rate: 0.47%

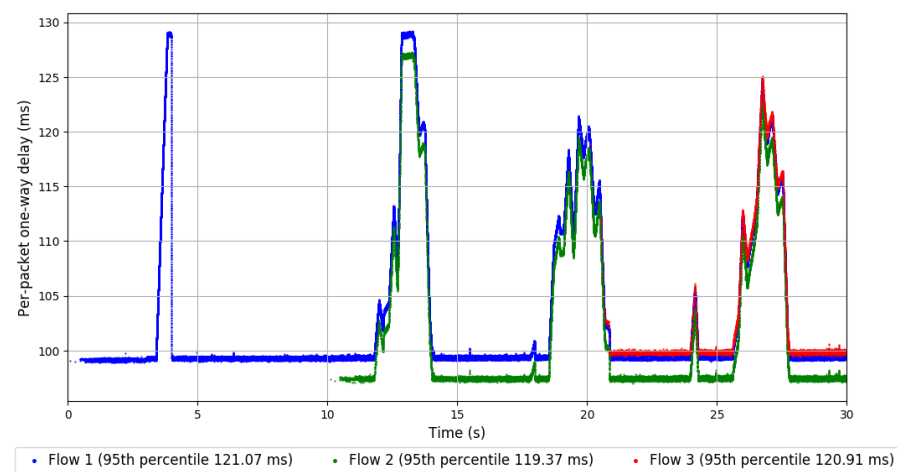
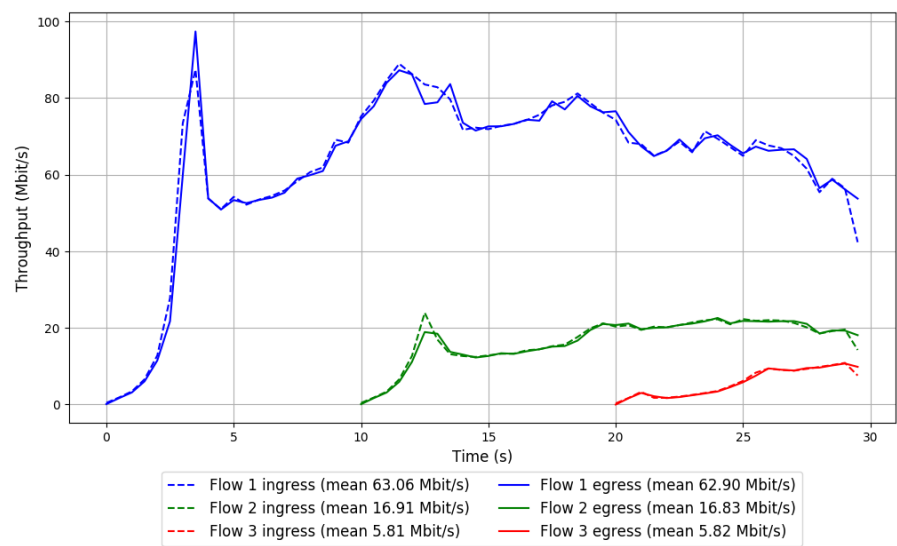
-- Flow 3:

Average throughput: 5.82 Mbit/s

95th percentile per-packet one-way delay: 120.913 ms

Loss rate: 0.02%

Run 8: Report of PCC-Vivace — Data Link



Run 9: Statistics of PCC-Vivace

Start at: 2018-04-24 23:54:40

End at: 2018-04-24 23:55:10

Local clock offset: -5.01 ms

Remote clock offset: 5.856 ms

Below is generated by plot.py at 2018-04-25 01:19:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 77.99 Mbit/s

95th percentile per-packet one-way delay: 111.549 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 66.70 Mbit/s

95th percentile per-packet one-way delay: 110.391 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 14.05 Mbit/s

95th percentile per-packet one-way delay: 113.206 ms

Loss rate: 0.01%

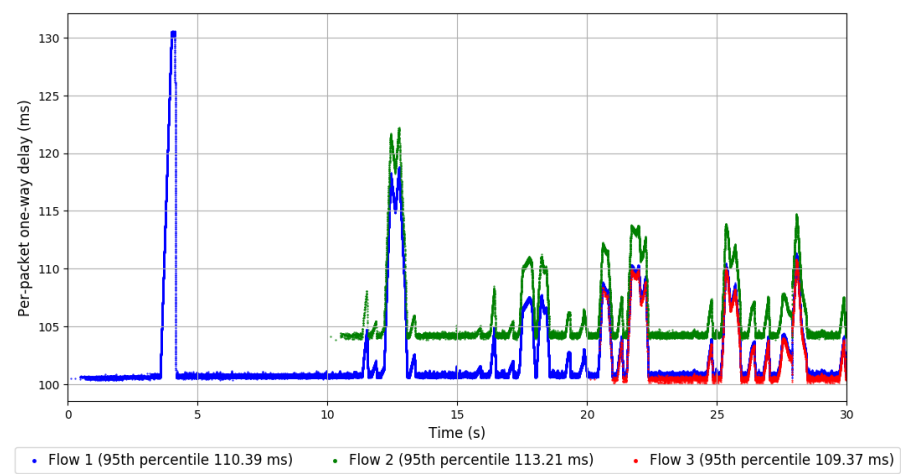
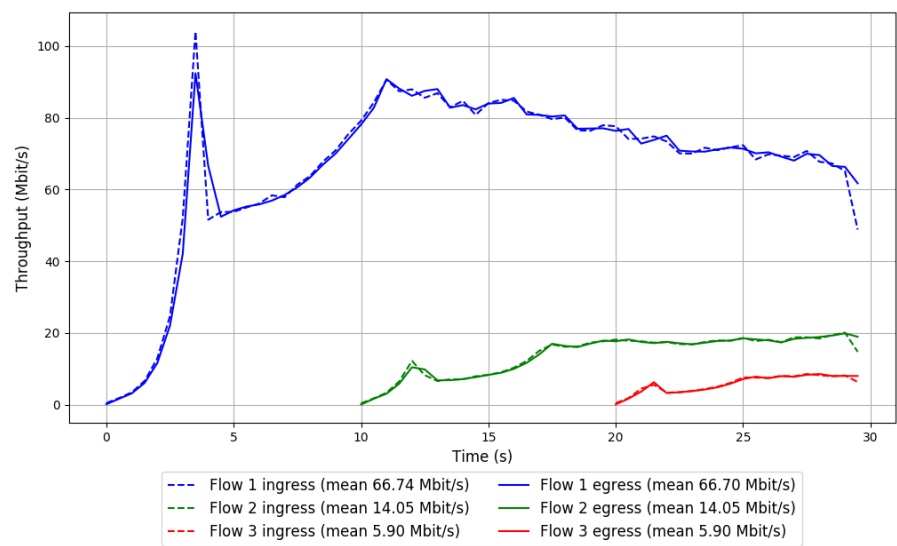
-- Flow 3:

Average throughput: 5.90 Mbit/s

95th percentile per-packet one-way delay: 109.367 ms

Loss rate: 0.00%

Run 9: Report of PCC-Vivace — Data Link



Run 10: Statistics of PCC-Vivace

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

End at: 2018-04-25 00:17:47

Local clock offset: -4.203 ms

Remote clock offset: 2.345 ms

Below is generated by plot.py at 2018-04-25 01:19:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 78.09 Mbit/s

95th percentile per-packet one-way delay: 125.227 ms

Loss rate: 0.56%

-- Flow 1:

Average throughput: 65.85 Mbit/s

95th percentile per-packet one-way delay: 125.104 ms

Loss rate: 0.48%

-- Flow 2:

Average throughput: 13.94 Mbit/s

95th percentile per-packet one-way delay: 130.881 ms

Loss rate: 0.92%

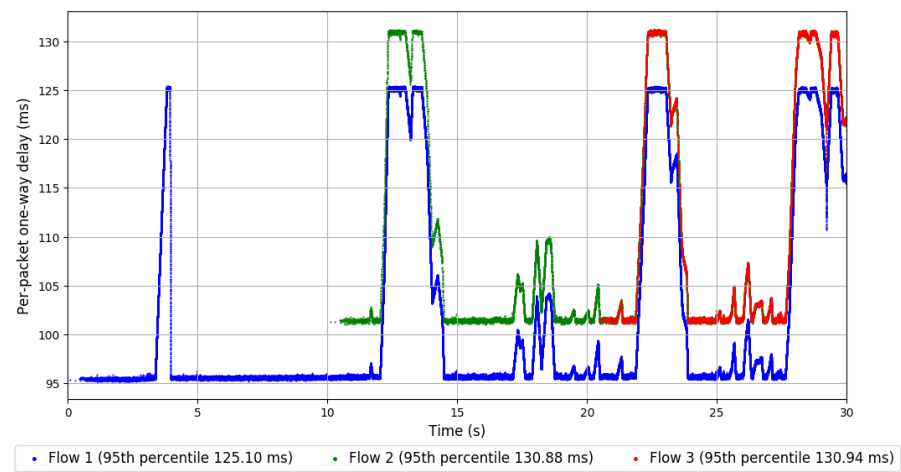
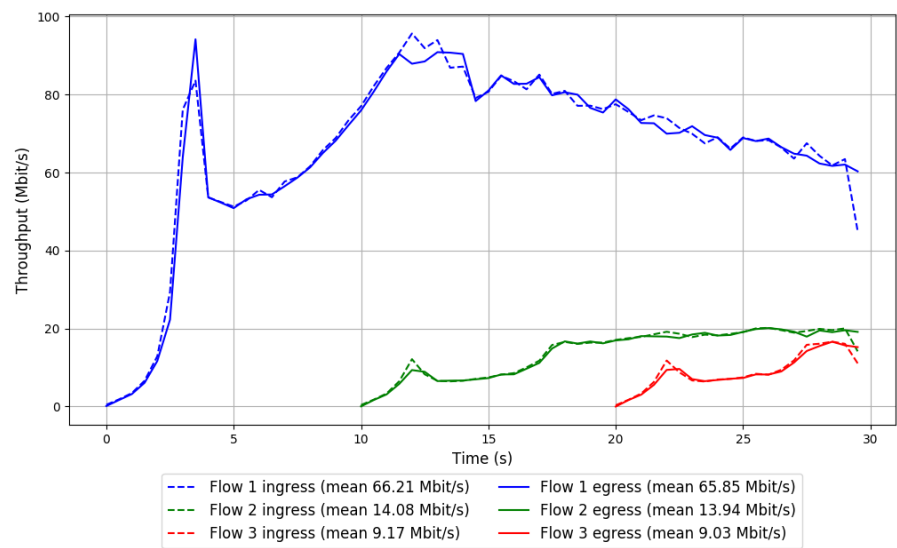
-- Flow 3:

Average throughput: 9.03 Mbit/s

95th percentile per-packet one-way delay: 130.937 ms

Loss rate: 1.27%

Run 10: Report of PCC-Vivace — Data Link



Run 1: Statistics of PCC-Expr

Start at: 2018-04-24 20:51:54

End at: 2018-04-24 20:52:24

Local clock offset: -4.853 ms

Remote clock offset: 3.661 ms

Run 1: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 2: Statistics of PCC-Expr

Start at: 2018-04-24 21:14:31

End at: 2018-04-24 21:15:01

Local clock offset: -5.746 ms

Remote clock offset: 8.484 ms

Run 2: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 3: Statistics of PCC-Expr

Start at: 2018-04-24 21:37:06

End at: 2018-04-24 21:37:36

Local clock offset: -4.143 ms

Remote clock offset: 3.805 ms

Run 3: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 4: Statistics of PCC-Expr

Start at: 2018-04-24 21:59:36

End at: 2018-04-24 22:00:06

Local clock offset: -4.916 ms

Remote clock offset: 4.485 ms

Run 4: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 5: Statistics of PCC-Expr

Start at: 2018-04-24 22:22:09

End at: 2018-04-24 22:22:39

Local clock offset: -5.314 ms

Remote clock offset: 4.314 ms

Run 5: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 6: Statistics of PCC-Expr

Start at: 2018-04-24 22:44:41

End at: 2018-04-24 22:45:11

Local clock offset: -5.357 ms

Remote clock offset: 8.595 ms

Run 6: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 7: Statistics of PCC-Expr

Start at: 2018-04-24 23:07:17

End at: 2018-04-24 23:07:47

Local clock offset: -5.873 ms

Remote clock offset: 6.635 ms

Run 7: Report of PCC-Expr — Data Link

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Figure is missing

Run 8: Statistics of PCC-Expr

Start at: 2018-04-24 23:29:51

End at: 2018-04-24 23:30:21

Local clock offset: -5.035 ms

Remote clock offset: 3.23 ms

Run 8: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 9: Statistics of PCC-Expr

Start at: 2018-04-24 23:52:05

End at: 2018-04-24 23:52:35

Local clock offset: -5.715 ms

Remote clock offset: 2.919 ms

Run 9: Report of PCC-Expr — Data Link

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Figure is missing

Run 10: Statistics of PCC-Expr

Start at: 2018-04-25 00:14:42

End at: 2018-04-25 00:15:12

Local clock offset: -5.084 ms

Remote clock offset: 7.606 ms

Run 10: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing