

Pantheon Report

Generated at 2018-04-17 01:14:11 (UTC).

Data path: AWS Brazil 2 Ethernet (*local*) → Colombia ppp0 (*remote*).

Repeated the test of 16 congestion control schemes 3 times.

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

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

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

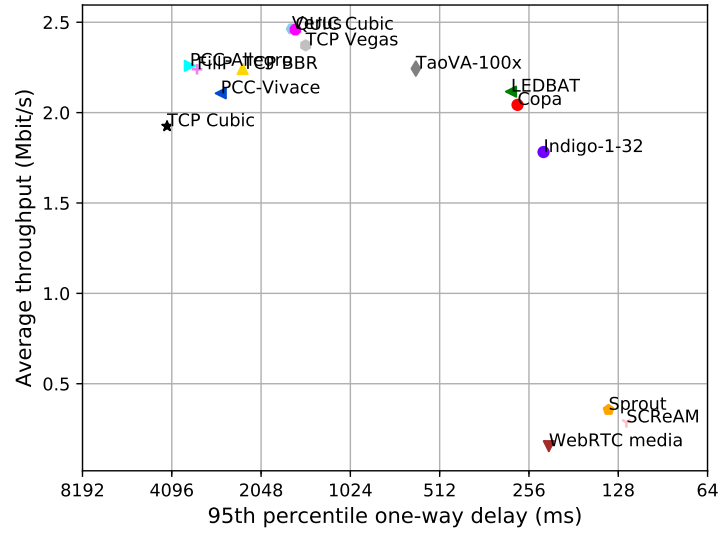
NTP offsets were measured against `gps.ntp.br` and have been applied to correct the timestamps in logs.

Git summary:

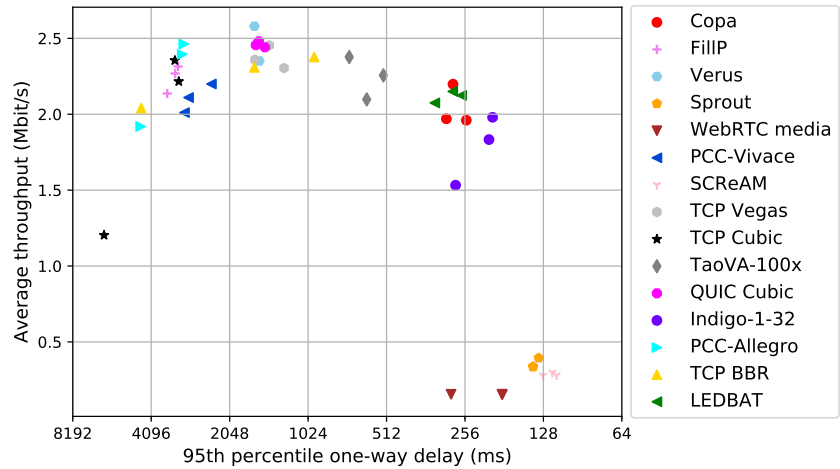
```
branch: master @ b3d6e7098641364fd3a292656a51aa81e316d0b4
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ 11f8c46a2bf1dc797253db7e8ca04076272b2a44
third_party/genericCC @ d223989828276fa83a807da6e0341dc0c7b89aec
third_party/indigo @ a9b2060d39e4da2e8987e893e3eca2a6c7cd0ab9
third_party/indigo-1-layer-128-unit @ 3ae9e4ef4230db7484501f82ce8b377695f2f66d
third_party/indigo-1-layer-32-unit @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/indigo-1-layer-32-unit-no-calib @ 1f3a7f75b41135ed5b540c0fd3505939528e2a5f
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
  M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ fb1053193c2861da659ba9013db26744ccfcf993
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
  M receiver/src/buffer.h
  M receiver/src/core.cpp
  M sender/src/buffer.h
  M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quick @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eaeeb30b267cde681
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 ppp0, 3 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 ppp0, 3 runs of 30s each per scheme
3 flows with 10s interval between flows



Run 1: Statistics of TCP BBR

Start at: 2018-04-17 00:11:11

End at: 2018-04-17 00:11:42

Local clock offset: -4.665 ms

Remote clock offset: 5.833 ms

Below is generated by plot.py at 2018-04-17 01:13:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 2.38 Mbit/s

95th percentile per-packet one-way delay: 970.225 ms

Loss rate: 1.83%

-- Flow 1:

Average throughput: 1.52 Mbit/s

95th percentile per-packet one-way delay: 952.981 ms

Loss rate: 0.61%

-- Flow 2:

Average throughput: 0.93 Mbit/s

95th percentile per-packet one-way delay: 983.156 ms

Loss rate: 2.12%

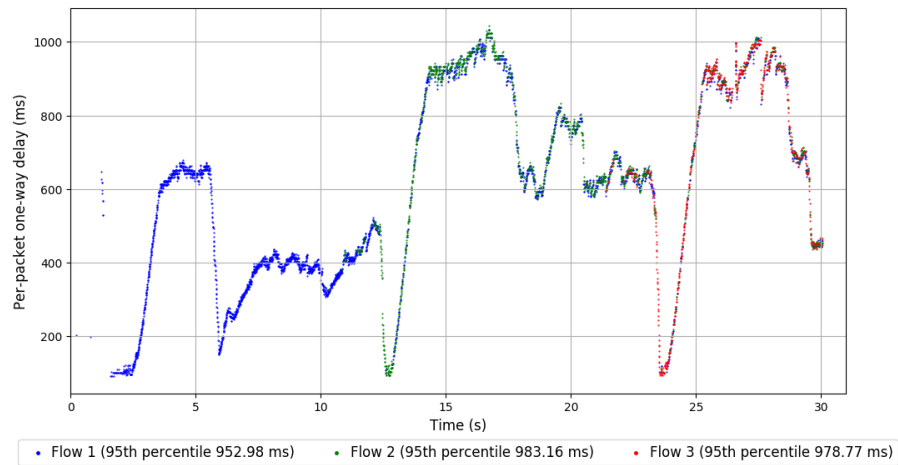
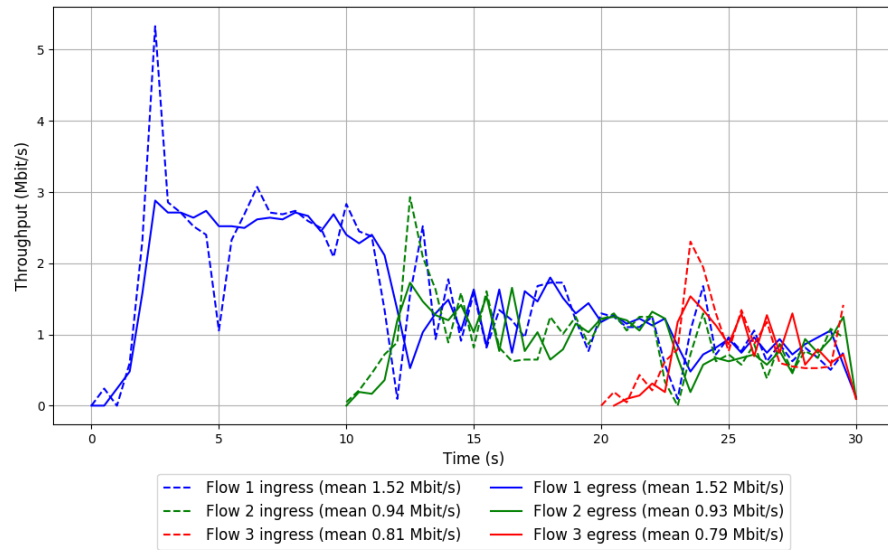
-- Flow 3:

Average throughput: 0.79 Mbit/s

95th percentile per-packet one-way delay: 978.772 ms

Loss rate: 8.01%

Run 1: Report of TCP BBR — Data Link

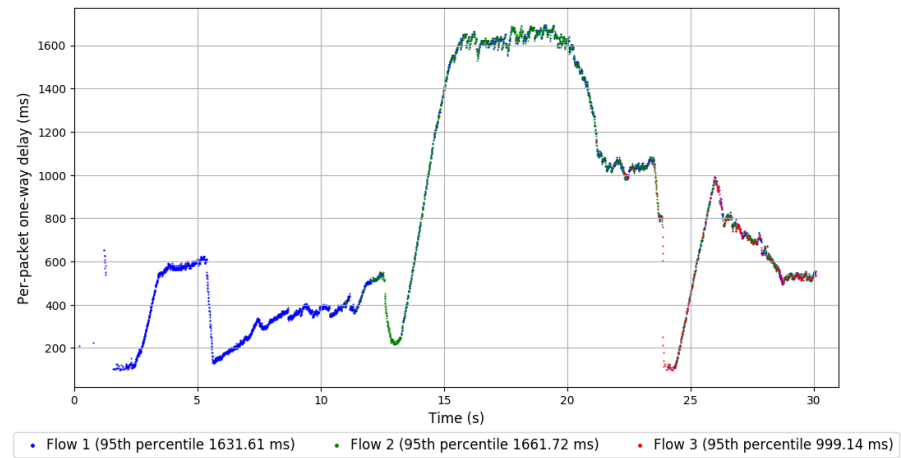
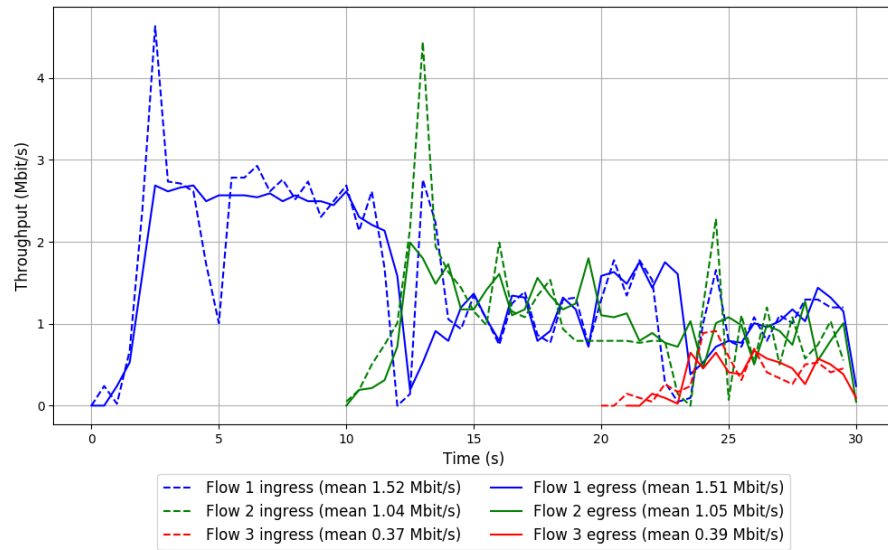


Run 2: Statistics of TCP BBR

Start at: 2018-04-17 00:32:42
End at: 2018-04-17 00:33:12
Local clock offset: -4.415 ms
Remote clock offset: 11.489 ms

Below is generated by plot.py at 2018-04-17 01:13:33
Datalink statistics
-- Total of 3 flows:
Average throughput: 2.31 Mbit/s
95th percentile per-packet one-way delay: 1647.928 ms
Loss rate: 1.46%
-- Flow 1:
Average throughput: 1.51 Mbit/s
95th percentile per-packet one-way delay: 1631.609 ms
Loss rate: 1.19%
-- Flow 2:
Average throughput: 1.05 Mbit/s
95th percentile per-packet one-way delay: 1661.717 ms
Loss rate: 1.33%
-- Flow 3:
Average throughput: 0.39 Mbit/s
95th percentile per-packet one-way delay: 999.138 ms
Loss rate: 5.61%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-04-17 00:54:14

End at: 2018-04-17 00:54:44

Local clock offset: -3.741 ms

Remote clock offset: 5.738 ms

Below is generated by plot.py at 2018-04-17 01:13:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 2.04 Mbit/s

95th percentile per-packet one-way delay: 4472.094 ms

Loss rate: 3.31%

-- Flow 1:

Average throughput: 1.27 Mbit/s

95th percentile per-packet one-way delay: 4273.158 ms

Loss rate: 1.57%

-- Flow 2:

Average throughput: 1.16 Mbit/s

95th percentile per-packet one-way delay: 4712.168 ms

Loss rate: 5.73%

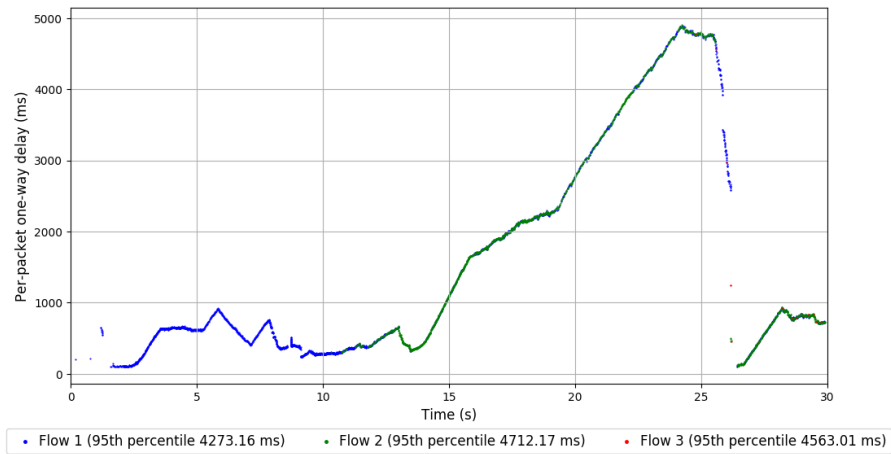
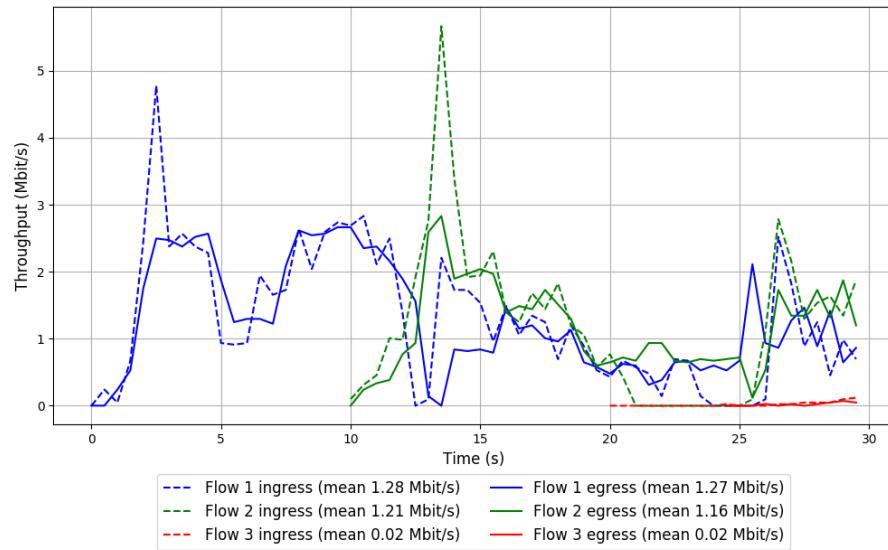
-- Flow 3:

Average throughput: 0.02 Mbit/s

95th percentile per-packet one-way delay: 4563.006 ms

Loss rate: 43.69%

Run 3: Report of TCP BBR — Data Link

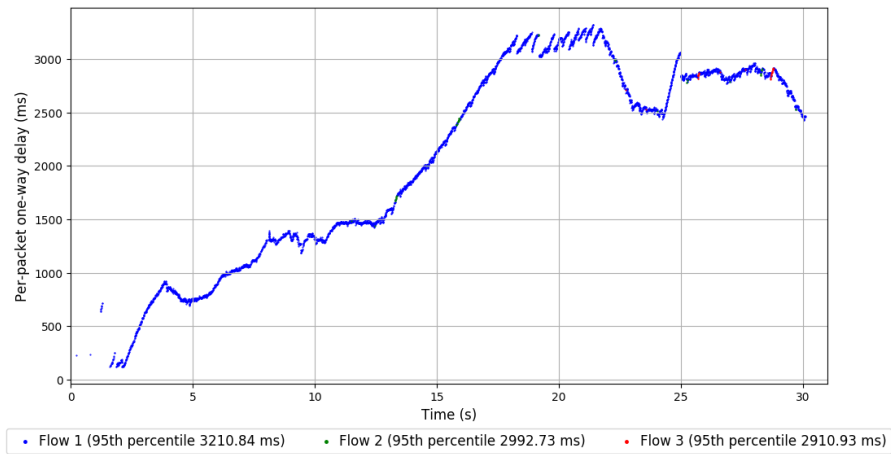
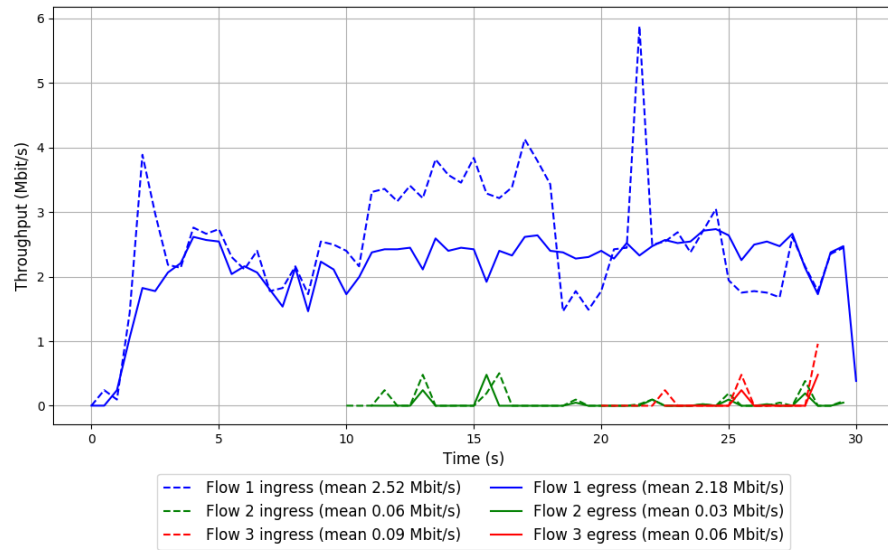


Run 1: Statistics of TCP Cubic

Start at: 2018-04-17 00:08:39
End at: 2018-04-17 00:09:09
Local clock offset: -4.665 ms
Remote clock offset: 11.537 ms

Below is generated by plot.py at 2018-04-17 01:13:33
Datalink statistics
-- Total of 3 flows:
Average throughput: 2.22 Mbit/s
95th percentile per-packet one-way delay: 3210.815 ms
Loss rate: 14.55%
-- Flow 1:
Average throughput: 2.18 Mbit/s
95th percentile per-packet one-way delay: 3210.838 ms
Loss rate: 13.58%
-- Flow 2:
Average throughput: 0.03 Mbit/s
95th percentile per-packet one-way delay: 2992.731 ms
Loss rate: 46.82%
-- Flow 3:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 2910.927 ms
Loss rate: 56.90%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-04-17 00:30:10

End at: 2018-04-17 00:30:40

Local clock offset: -5.258 ms

Remote clock offset: 4.947 ms

Below is generated by plot.py at 2018-04-17 01:13:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 1.20 Mbit/s

95th percentile per-packet one-way delay: 6212.636 ms

Loss rate: 22.88%

-- Flow 1:

Average throughput: 1.18 Mbit/s

95th percentile per-packet one-way delay: 6222.225 ms

Loss rate: 22.35%

-- Flow 2:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 6191.062 ms

Loss rate: 42.29%

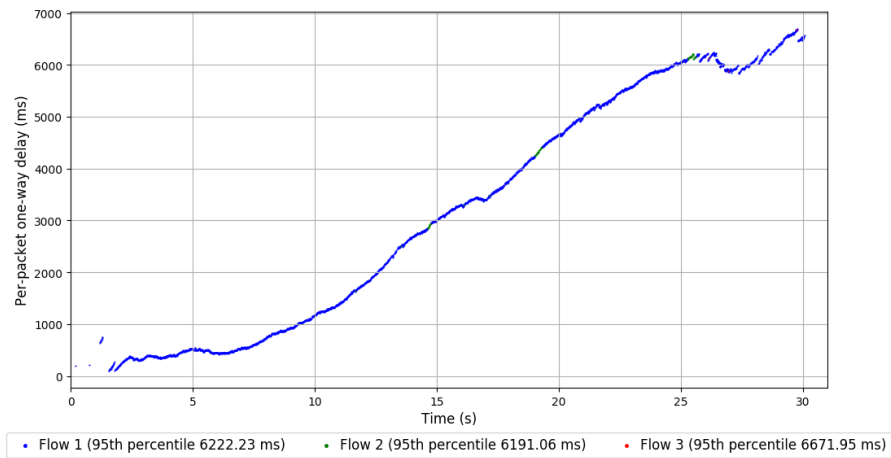
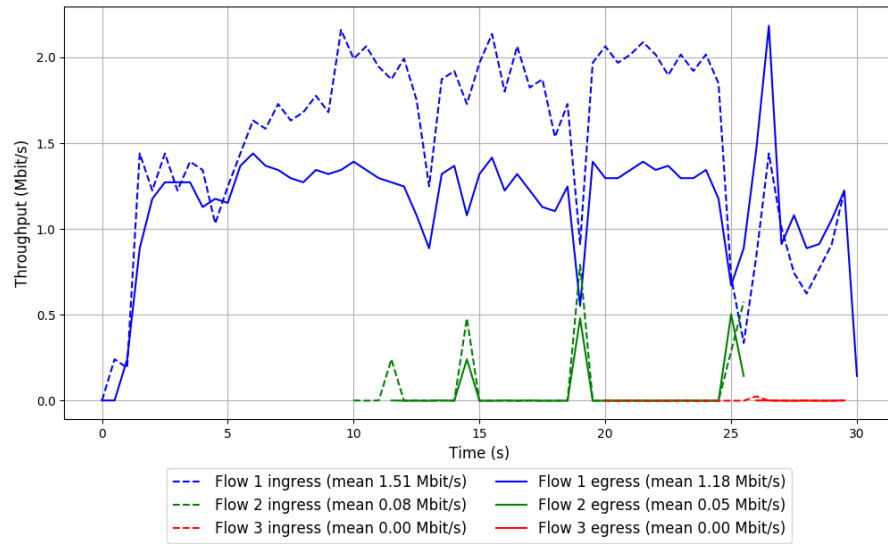
-- Flow 3:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 6671.947 ms

Loss rate: 86.54%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-04-17 00:51:42

End at: 2018-04-17 00:52:12

Local clock offset: -4.109 ms

Remote clock offset: 9.659 ms

Below is generated by plot.py at 2018-04-17 01:13:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 2.35 Mbit/s

95th percentile per-packet one-way delay: 3323.682 ms

Loss rate: 13.65%

-- Flow 1:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 3332.572 ms

Loss rate: 12.79%

-- Flow 2:

Average throughput: 0.09 Mbit/s

95th percentile per-packet one-way delay: 3163.326 ms

Loss rate: 27.74%

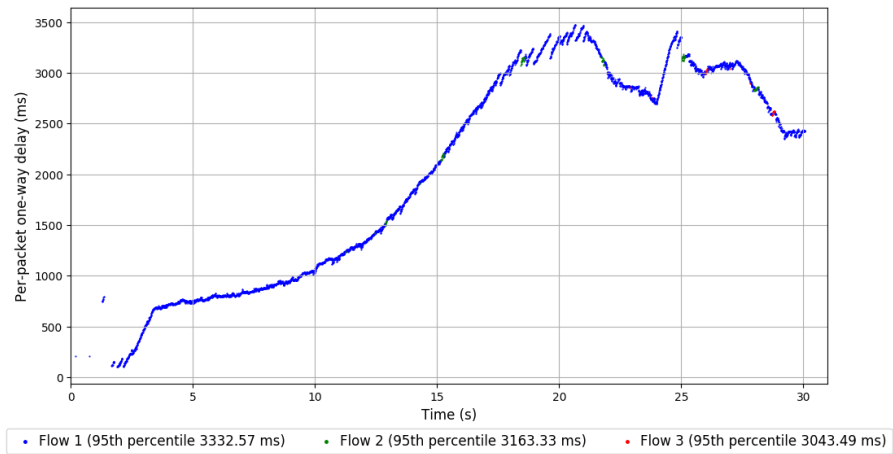
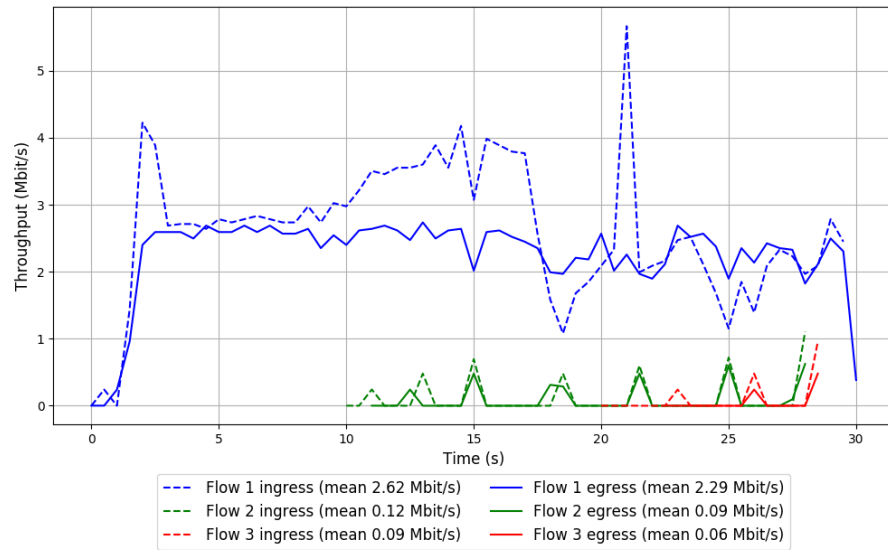
-- Flow 3:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 3043.492 ms

Loss rate: 56.90%

Run 3: Report of TCP Cubic — Data Link

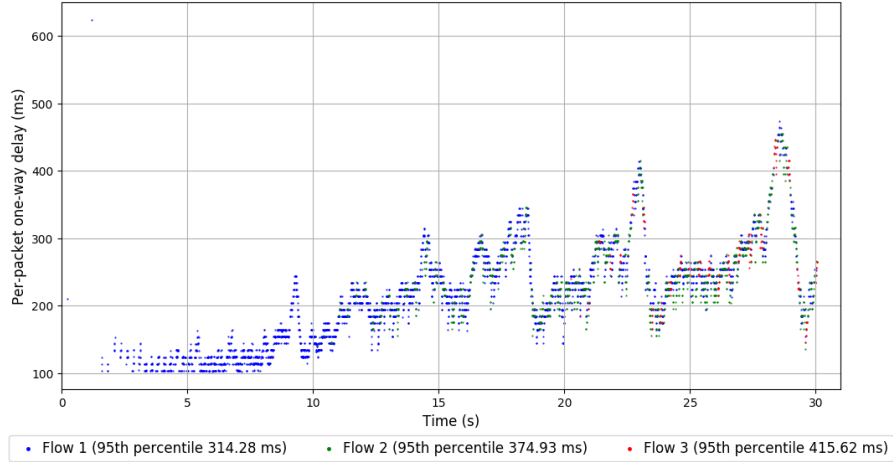
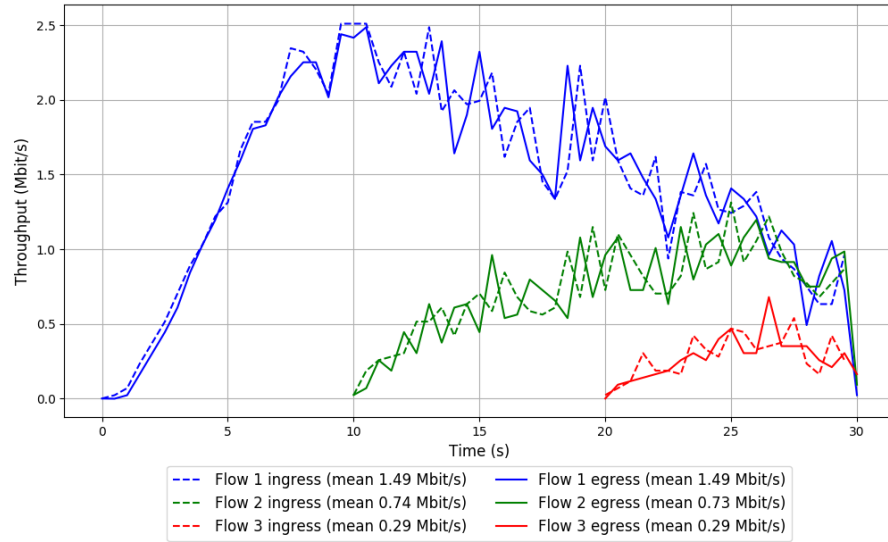


Run 1: Statistics of LEDBAT

Start at: 2018-04-17 00:15:00
End at: 2018-04-17 00:15:30
Local clock offset: -5.439 ms
Remote clock offset: 11.382 ms

Below is generated by plot.py at 2018-04-17 01:13:33
Datalink statistics
-- Total of 3 flows:
Average throughput: 2.07 Mbit/s
95th percentile per-packet one-way delay: 334.156 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 1.49 Mbit/s
95th percentile per-packet one-way delay: 314.281 ms
Loss rate: 0.39%
-- Flow 2:
Average throughput: 0.73 Mbit/s
95th percentile per-packet one-way delay: 374.931 ms
Loss rate: 0.72%
-- Flow 3:
Average throughput: 0.29 Mbit/s
95th percentile per-packet one-way delay: 415.616 ms
Loss rate: 0.00%

Run 1: Report of LEDBAT — Data Link

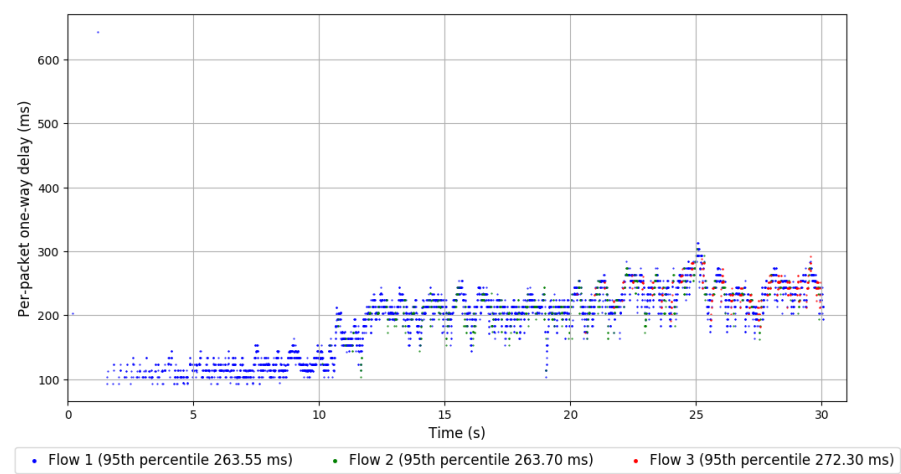
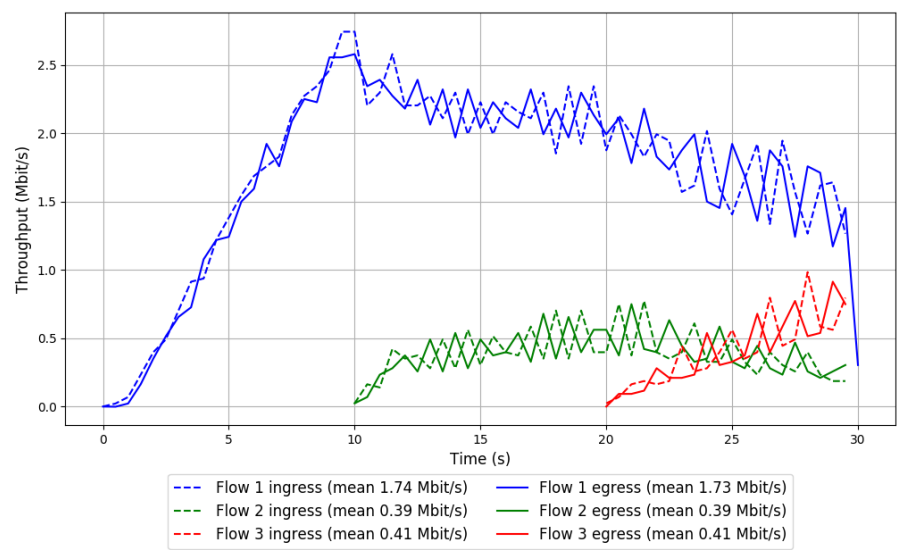


Run 2: Statistics of LEDBAT

Start at: 2018-04-17 00:36:31
End at: 2018-04-17 00:37:01
Local clock offset: -4.333 ms
Remote clock offset: 4.996 ms

Below is generated by plot.py at 2018-04-17 01:13:33
Datalink statistics
-- Total of 3 flows:
Average throughput: 2.12 Mbit/s
95th percentile per-packet one-way delay: 263.627 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 1.73 Mbit/s
95th percentile per-packet one-way delay: 263.553 ms
Loss rate: 0.45%
-- Flow 2:
Average throughput: 0.39 Mbit/s
95th percentile per-packet one-way delay: 263.700 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.41 Mbit/s
95th percentile per-packet one-way delay: 272.298 ms
Loss rate: 2.59%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-04-17 00:58:02

End at: 2018-04-17 00:58:32

Local clock offset: -4.82 ms

Remote clock offset: 5.753 ms

Below is generated by plot.py at 2018-04-17 01:13:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 285.204 ms

Loss rate: 0.53%

-- Flow 1:

Average throughput: 1.59 Mbit/s

95th percentile per-packet one-way delay: 285.533 ms

Loss rate: 0.25%

-- Flow 2:

Average throughput: 0.56 Mbit/s

95th percentile per-packet one-way delay: 277.304 ms

Loss rate: 0.00%

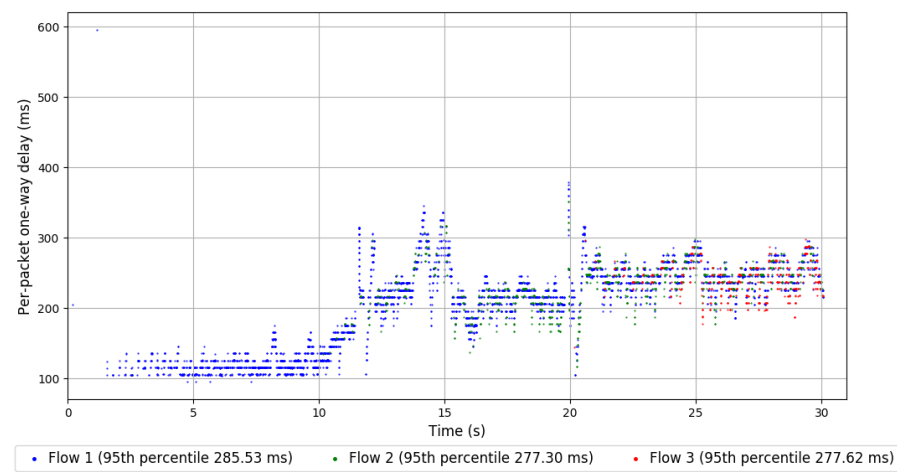
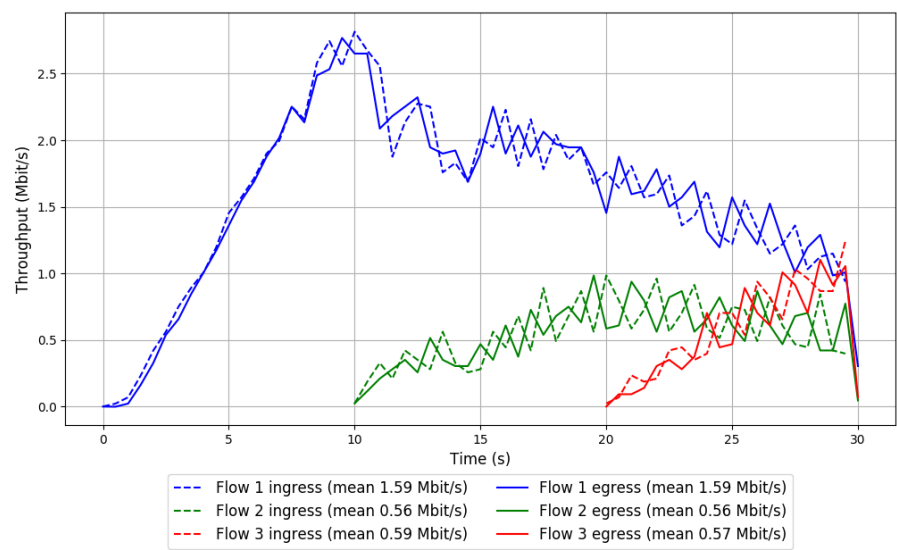
-- Flow 3:

Average throughput: 0.57 Mbit/s

95th percentile per-packet one-way delay: 277.619 ms

Loss rate: 3.81%

Run 3: Report of LEDBAT — Data Link



Run 1: Statistics of PCC-Allegro

Start at: 2018-04-17 00:17:31

End at: 2018-04-17 00:18:01

Local clock offset: -5.363 ms

Remote clock offset: 9.699 ms

Below is generated by plot.py at 2018-04-17 01:13:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 2.39 Mbit/s

95th percentile per-packet one-way delay: 3113.063 ms

Loss rate: 81.53%

-- Flow 1:

Average throughput: 1.56 Mbit/s

95th percentile per-packet one-way delay: 3084.712 ms

Loss rate: 48.96%

-- Flow 2:

Average throughput: 1.34 Mbit/s

95th percentile per-packet one-way delay: 3149.270 ms

Loss rate: 91.54%

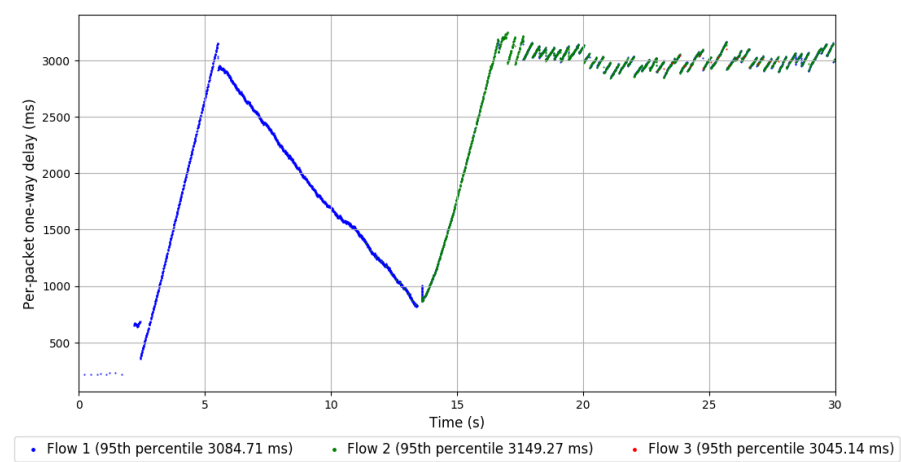
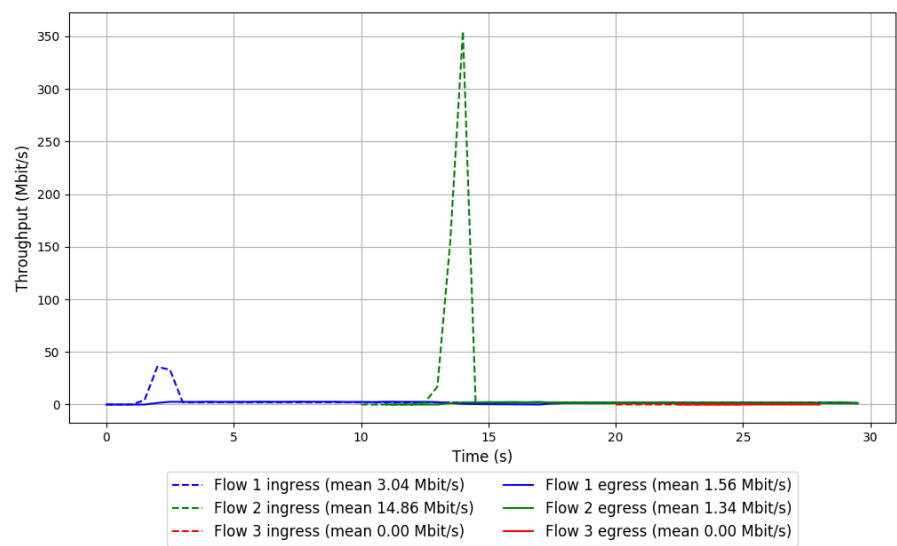
-- Flow 3:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 3045.142 ms

Loss rate: 0.00%

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2018-04-17 00:39:03

End at: 2018-04-17 00:39:33

Local clock offset: -3.509 ms

Remote clock offset: 5.787 ms

Below is generated by plot.py at 2018-04-17 01:13:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 2.46 Mbit/s

95th percentile per-packet one-way delay: 3072.382 ms

Loss rate: 86.62%

-- Flow 1:

Average throughput: 1.38 Mbit/s

95th percentile per-packet one-way delay: 3040.679 ms

Loss rate: 56.17%

-- Flow 2:

Average throughput: 1.71 Mbit/s

95th percentile per-packet one-way delay: 3093.724 ms

Loss rate: 92.92%

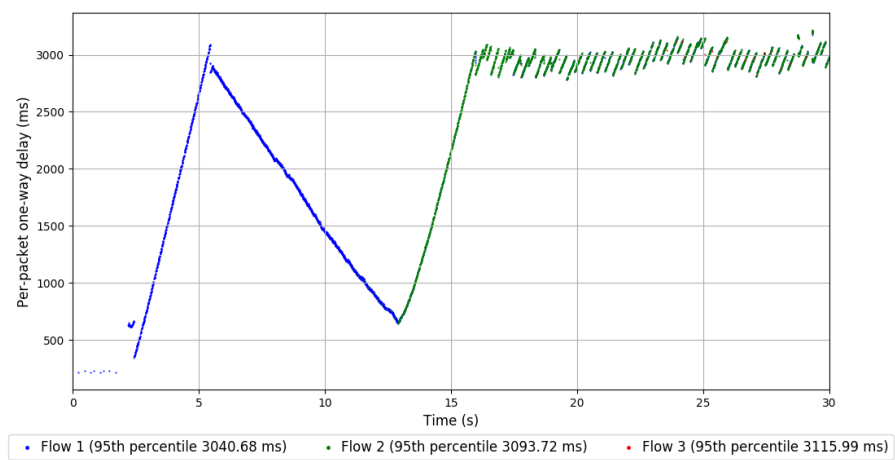
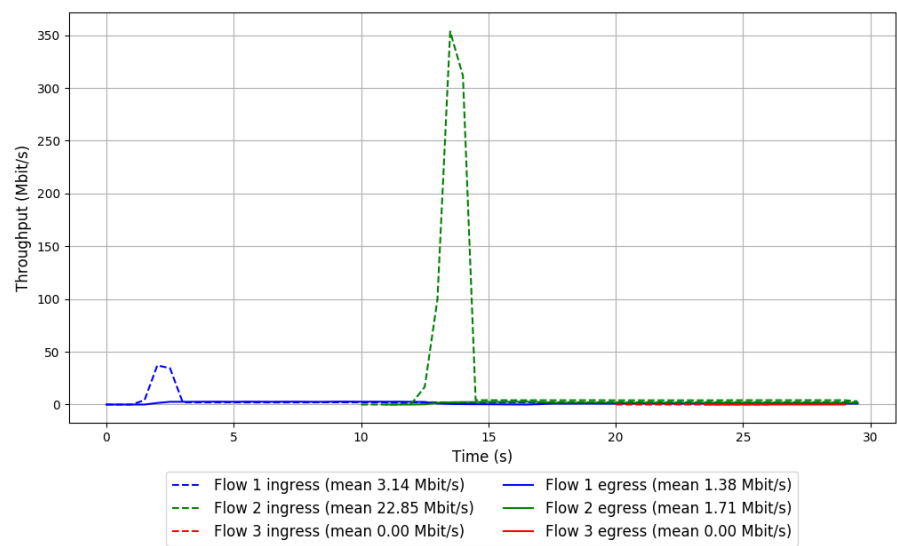
-- Flow 3:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 3115.991 ms

Loss rate: 13.79%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2018-04-17 01:00:34

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

Local clock offset: -5.035 ms

Remote clock offset: 5.808 ms

Below is generated by plot.py at 2018-04-17 01:13:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 1.92 Mbit/s

95th percentile per-packet one-way delay: 4495.136 ms

Loss rate: 65.33%

-- Flow 1:

Average throughput: 1.92 Mbit/s

95th percentile per-packet one-way delay: 4497.612 ms

Loss rate: 65.34%

-- Flow 2:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 4186.265 ms

Loss rate: 0.00%

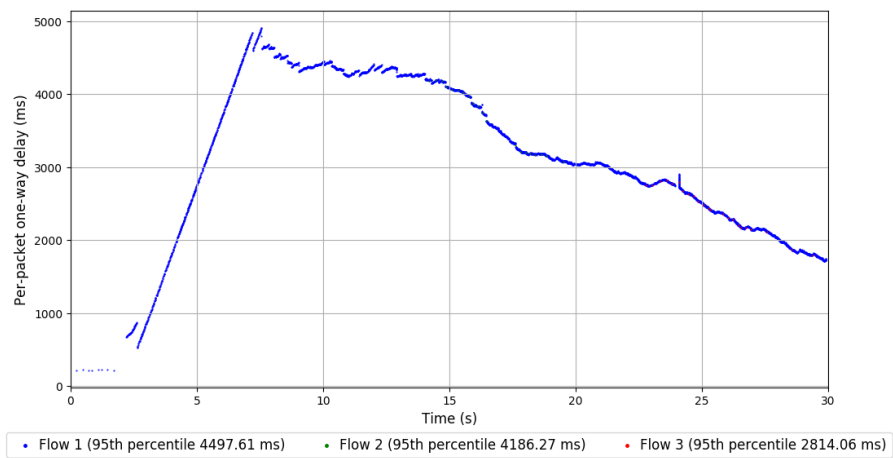
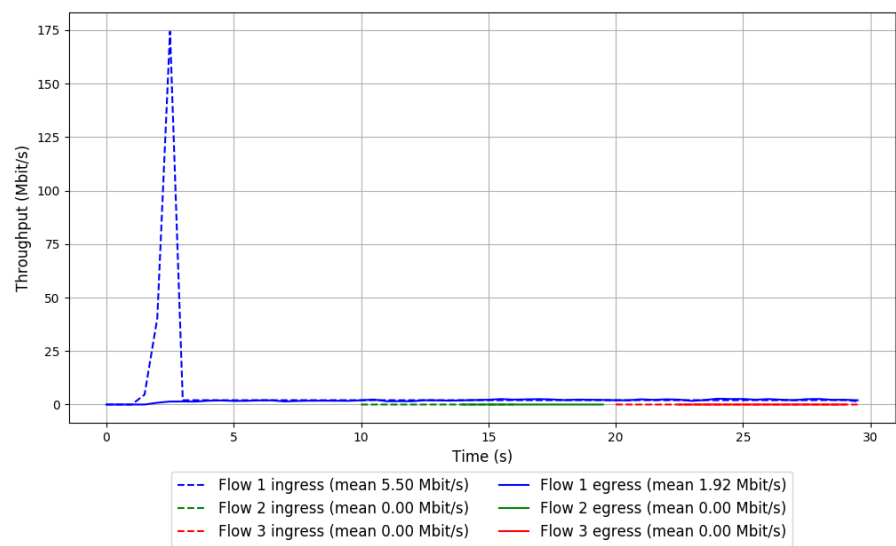
-- Flow 3:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 2814.059 ms

Loss rate: 7.73%

Run 3: Report of PCC-Allegro — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2018-04-17 00:28:54

End at: 2018-04-17 00:29:24

Local clock offset: -5.312 ms

Remote clock offset: 5.048 ms

Below is generated by plot.py at 2018-04-17 01:13:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 2.44 Mbit/s

95th percentile per-packet one-way delay: 1499.653 ms

Loss rate: 5.85%

-- Flow 1:

Average throughput: 1.87 Mbit/s

95th percentile per-packet one-way delay: 1469.807 ms

Loss rate: 4.41%

-- Flow 2:

Average throughput: 0.72 Mbit/s

95th percentile per-packet one-way delay: 1515.525 ms

Loss rate: 7.09%

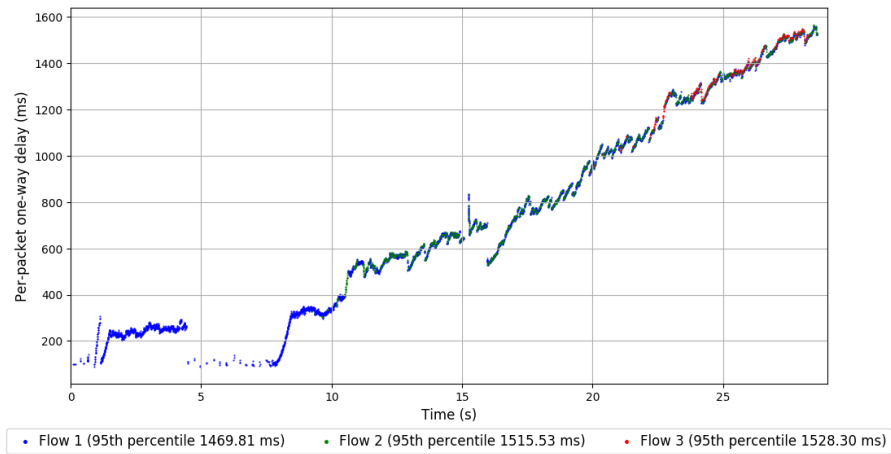
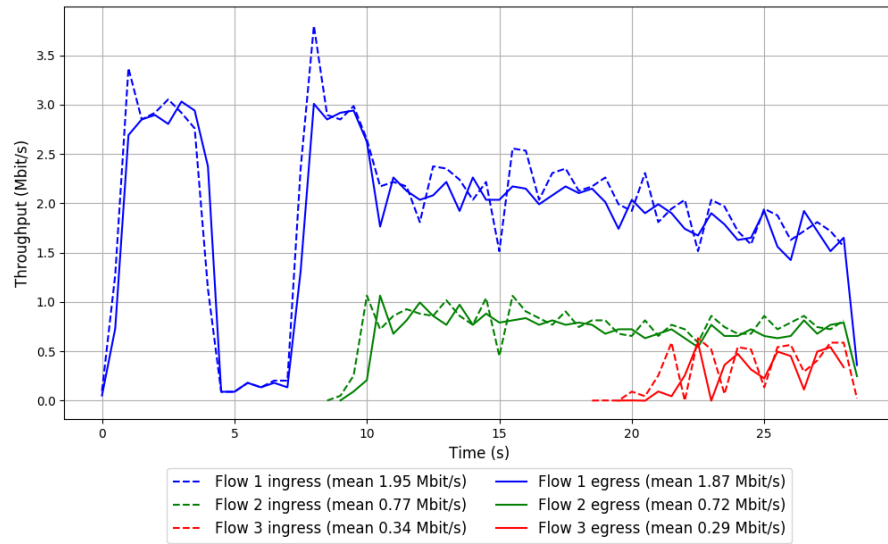
-- Flow 3:

Average throughput: 0.29 Mbit/s

95th percentile per-packet one-way delay: 1528.303 ms

Loss rate: 25.03%

Run 1: Report of QUIC Cubic — Data Link

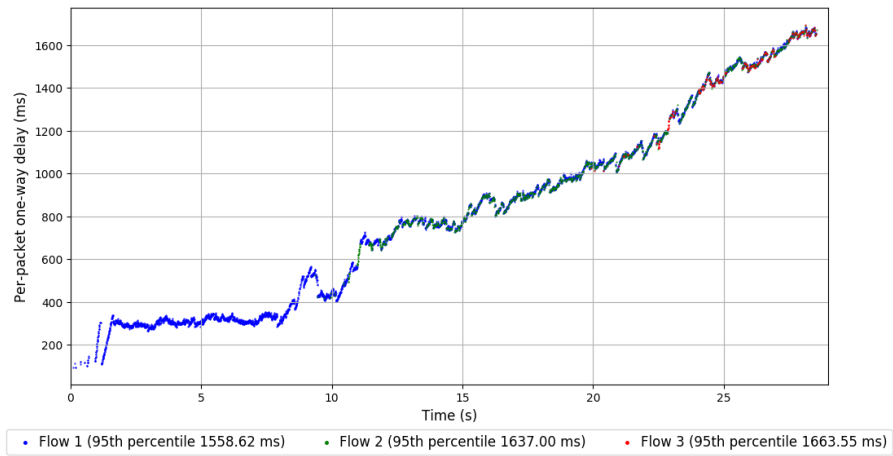
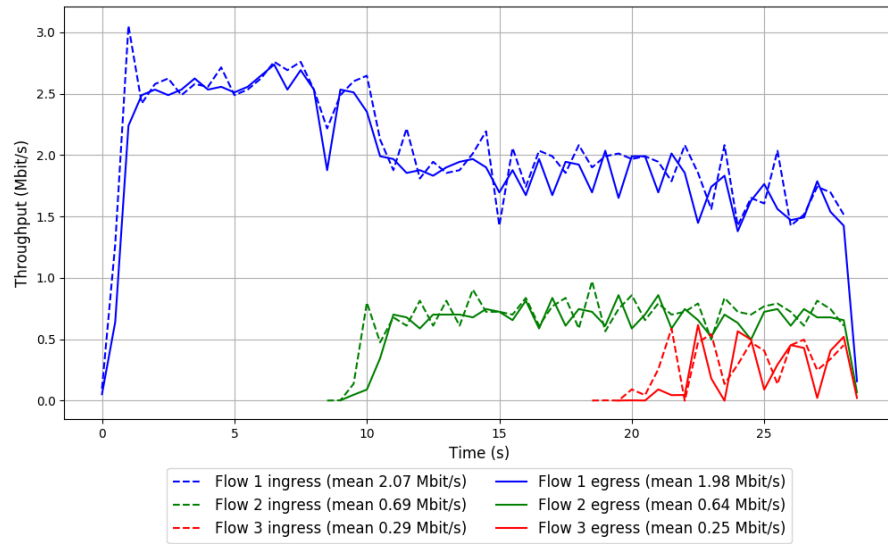


Run 2: Statistics of QUIC Cubic

Start at: 2018-04-17 00:50:25
End at: 2018-04-17 00:50:55
Local clock offset: -3.351 ms
Remote clock offset: 10.551 ms

Below is generated by plot.py at 2018-04-17 01:13:48
Datalink statistics
-- Total of 3 flows:
Average throughput: 2.48 Mbit/s
95th percentile per-packet one-way delay: 1582.438 ms
Loss rate: 5.85%
-- Flow 1:
Average throughput: 1.98 Mbit/s
95th percentile per-packet one-way delay: 1558.624 ms
Loss rate: 4.50%
-- Flow 2:
Average throughput: 0.64 Mbit/s
95th percentile per-packet one-way delay: 1636.997 ms
Loss rate: 8.67%
-- Flow 3:
Average throughput: 0.25 Mbit/s
95th percentile per-packet one-way delay: 1663.550 ms
Loss rate: 21.19%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-04-17 01:11:56

End at: 2018-04-17 01:12:26

Local clock offset: -6.197 ms

Remote clock offset: 5.66 ms

Below is generated by plot.py at 2018-04-17 01:13:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 2.46 Mbit/s

95th percentile per-packet one-way delay: 1625.054 ms

Loss rate: 5.76%

-- Flow 1:

Average throughput: 1.88 Mbit/s

95th percentile per-packet one-way delay: 1584.103 ms

Loss rate: 3.78%

-- Flow 2:

Average throughput: 0.65 Mbit/s

95th percentile per-packet one-way delay: 1636.218 ms

Loss rate: 7.78%

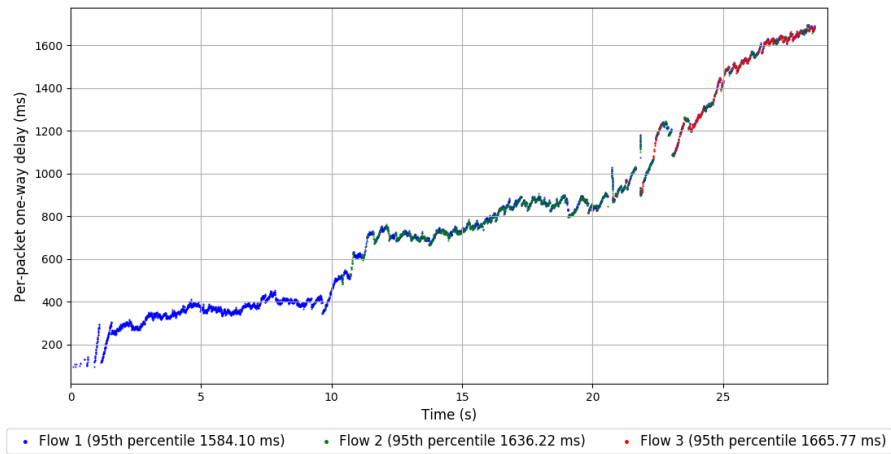
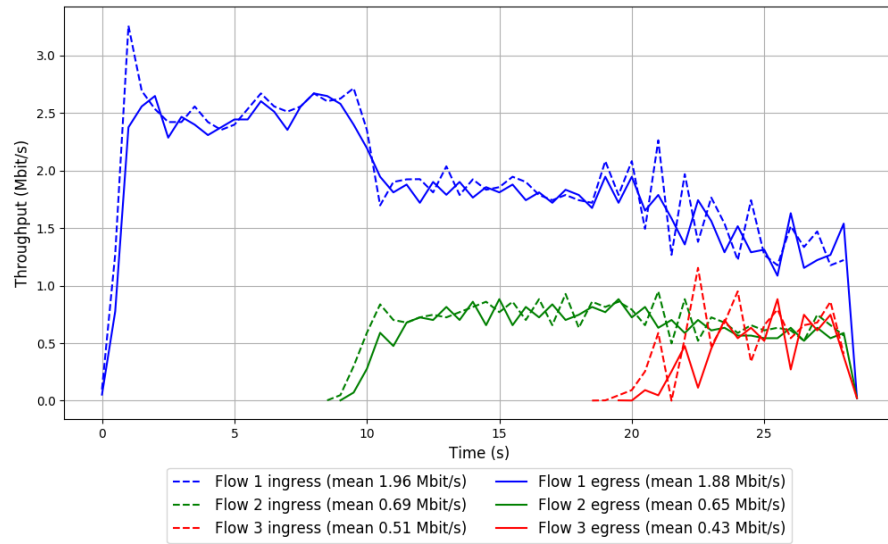
-- Flow 3:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 1665.767 ms

Loss rate: 22.81%

Run 3: Report of QUIC Cubic — Data Link

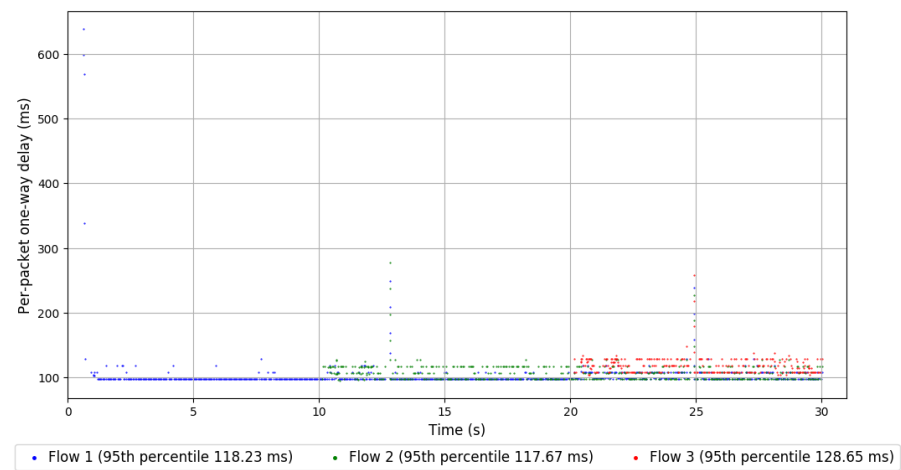
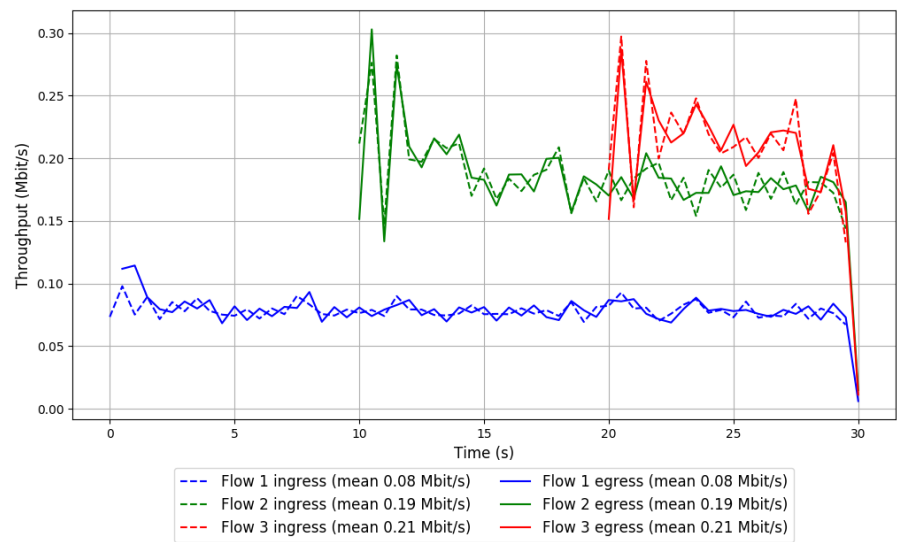


```
Run 1: Statistics of SCReAM

Start at: 2018-04-17 00:25:07
End at: 2018-04-17 00:25:37
Local clock offset: -5.492 ms
Remote clock offset: 9.783 ms

# Below is generated by plot.py at 2018-04-17 01:13:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.28 Mbit/s
95th percentile per-packet one-way delay: 128.392 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 0.08 Mbit/s
95th percentile per-packet one-way delay: 118.230 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 117.665 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 128.647 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

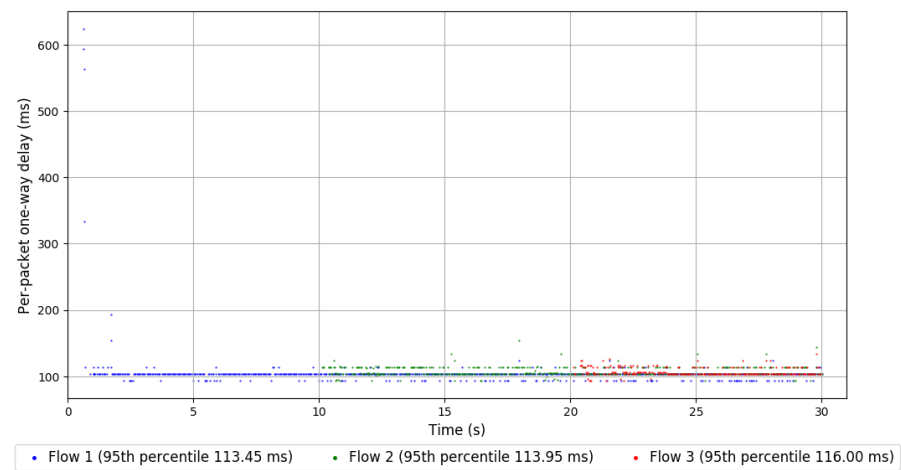
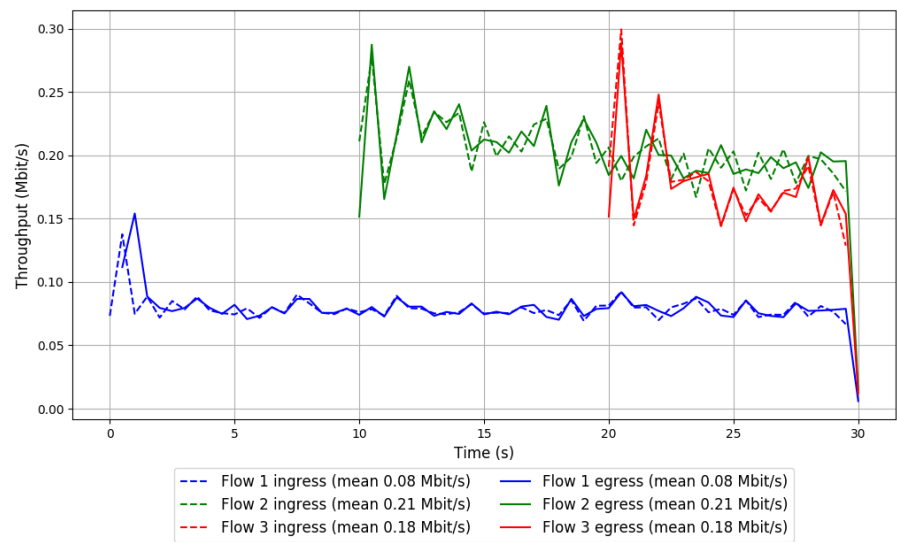


Run 2: Statistics of SReAM

Start at: 2018-04-17 00:46:39
End at: 2018-04-17 00:47:09
Local clock offset: -4.224 ms
Remote clock offset: 5.766 ms

Below is generated by plot.py at 2018-04-17 01:13:48
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.28 Mbit/s
95th percentile per-packet one-way delay: 113.924 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.08 Mbit/s
95th percentile per-packet one-way delay: 113.446 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 113.947 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 116.000 ms
Loss rate: 0.00%

Run 2: Report of SReAM — Data Link

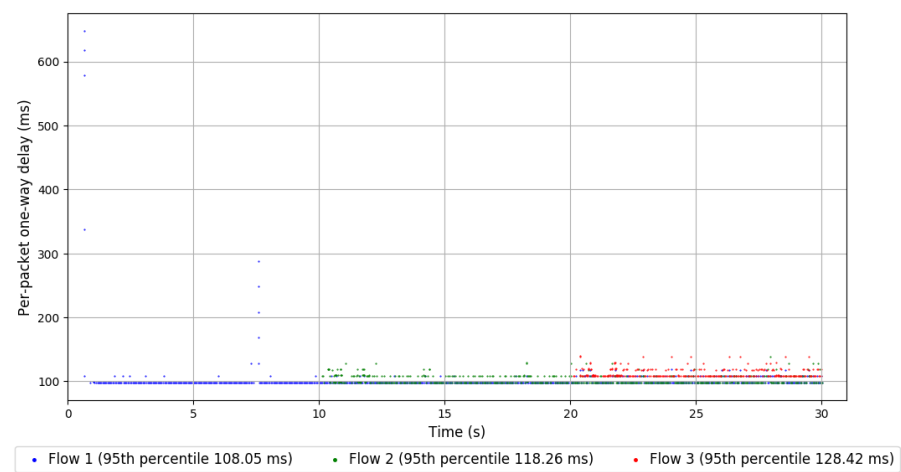
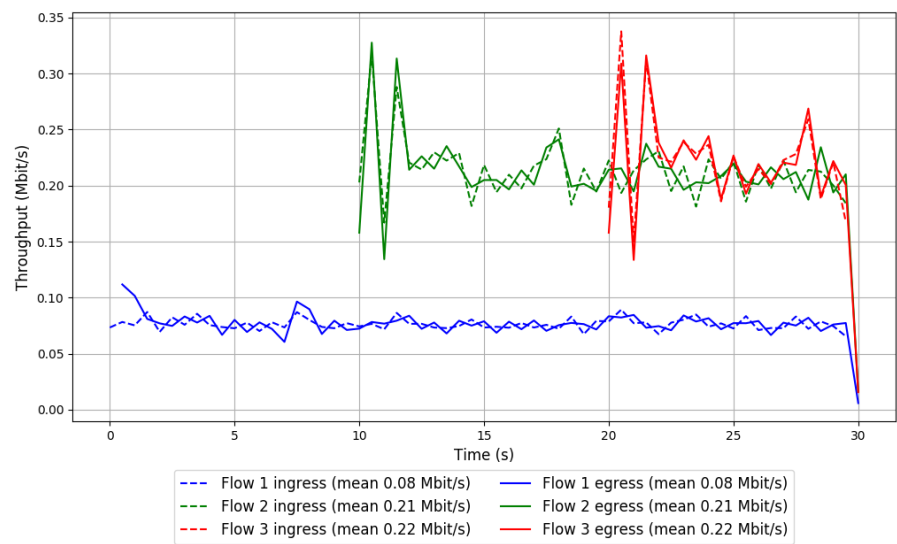


Run 3: Statistics of SReAM

Start at: 2018-04-17 01:08:08
End at: 2018-04-17 01:08:38
Local clock offset: -5.327 ms
Remote clock offset: 10.528 ms

Below is generated by plot.py at 2018-04-17 01:13:48
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.30 Mbit/s
95th percentile per-packet one-way delay: 118.308 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.08 Mbit/s
95th percentile per-packet one-way delay: 108.050 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 118.257 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 128.416 ms
Loss rate: 0.00%

Run 3: Report of SCReAM — Data Link

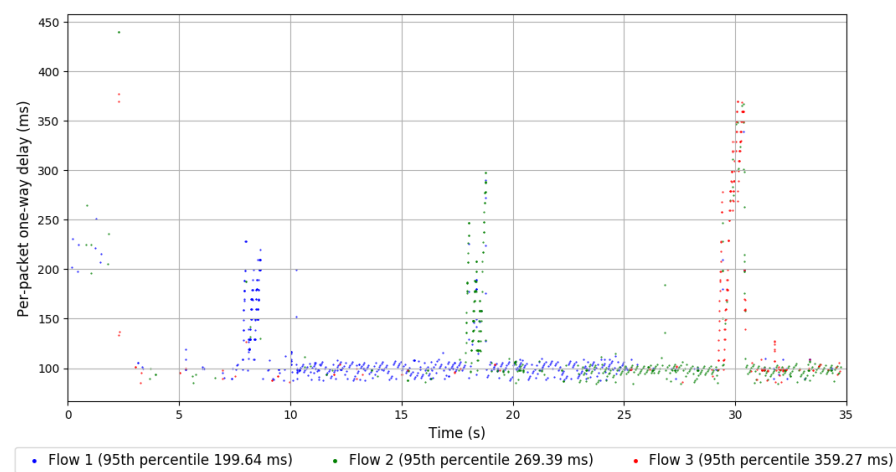
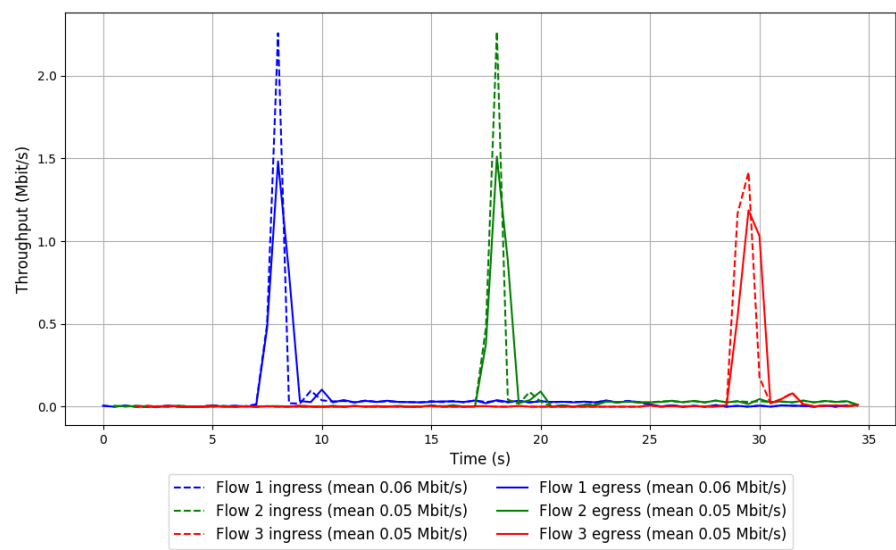



```
Run 1: Statistics of WebRTC media

Start at: 2018-04-17 00:12:28
End at: 2018-04-17 00:12:58
Local clock offset: -4.665 ms
Remote clock offset: 4.973 ms

# Below is generated by plot.py at 2018-04-17 01:13:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 289.454 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 199.639 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 269.393 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 359.270 ms
Loss rate: 0.00%
```

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-04-17 00:33:59

End at: 2018-04-17 00:34:29

Local clock offset: -4.384 ms

Remote clock offset: 5.861 ms

Below is generated by plot.py at 2018-04-17 01:13:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.16 Mbit/s

95th percentile per-packet one-way delay: 184.574 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 175.949 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 184.676 ms

Loss rate: 0.00%

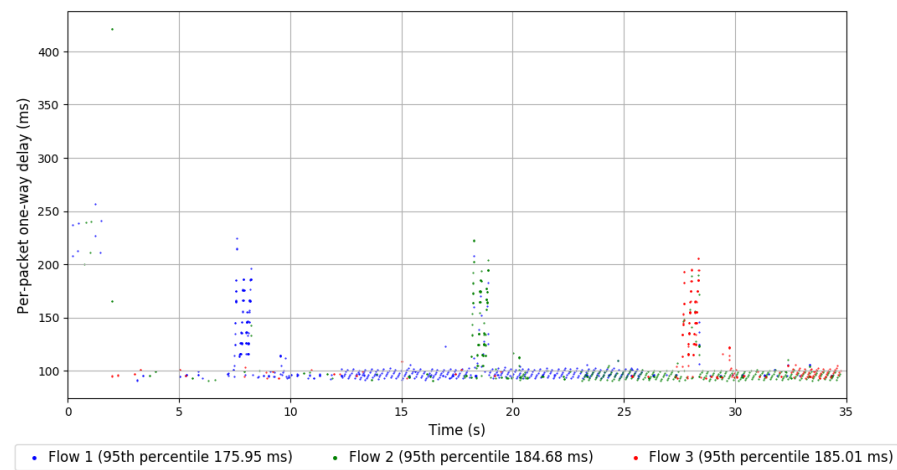
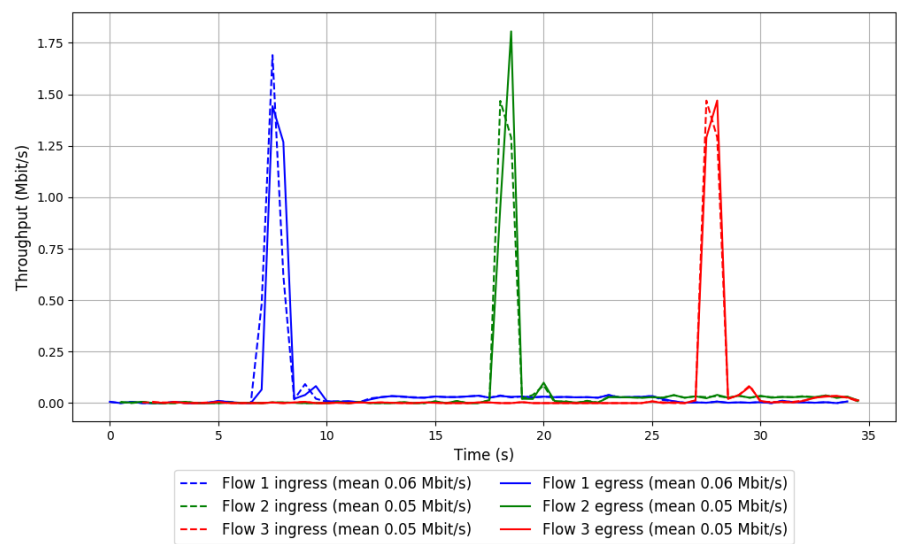
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 185.007 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-04-17 00:55:30

End at: 2018-04-17 00:56:00

Local clock offset: -4.629 ms

Remote clock offset: 4.913 ms

Below is generated by plot.py at 2018-04-17 01:13:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.15 Mbit/s

95th percentile per-packet one-way delay: 184.113 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 183.906 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 194.109 ms

Loss rate: 0.00%

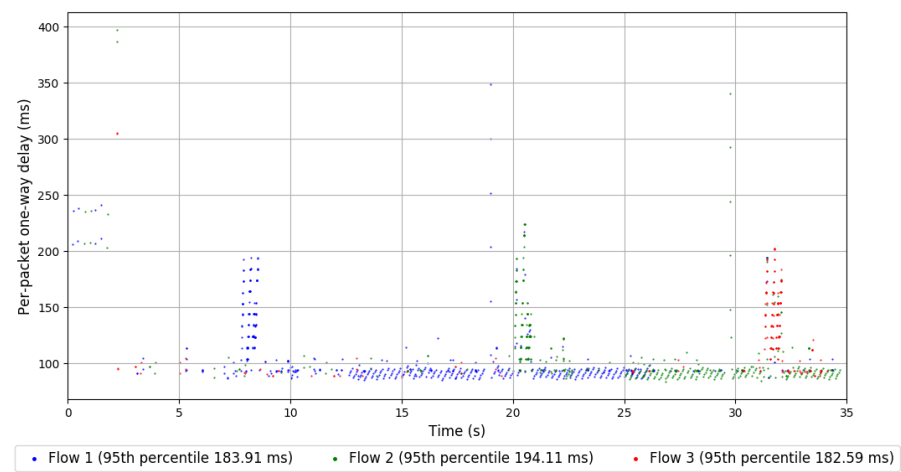
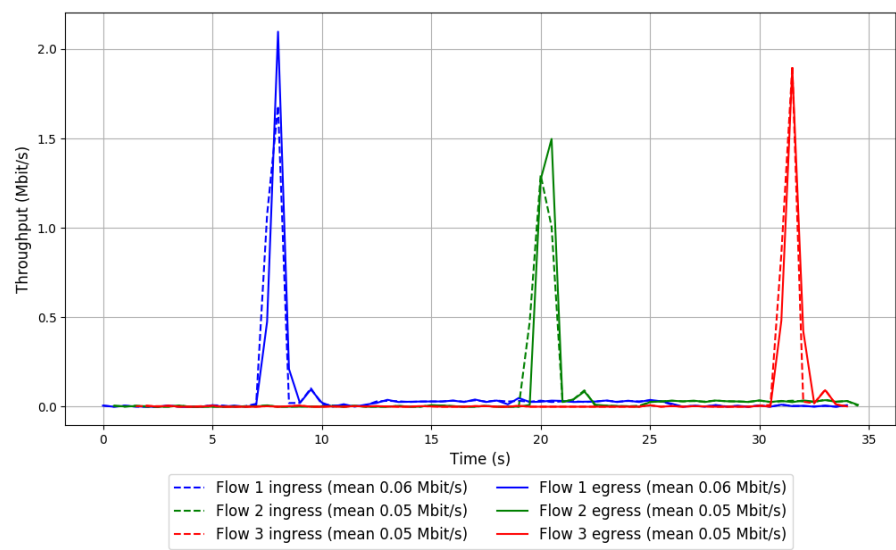
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 182.589 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link

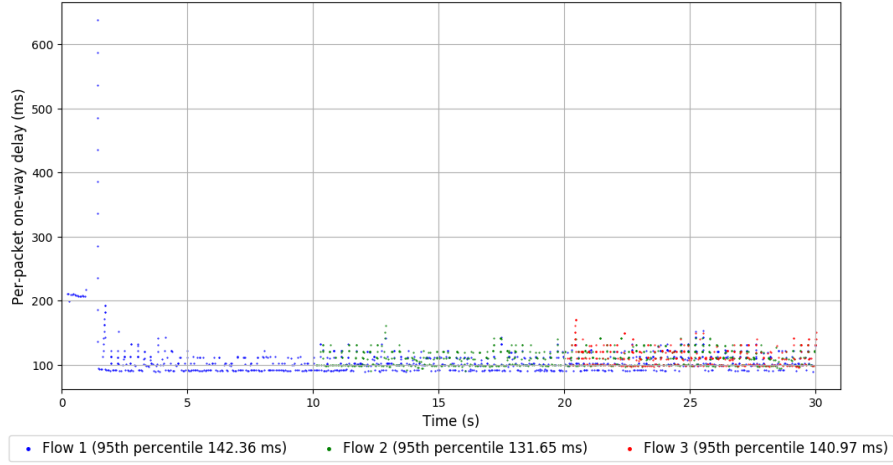
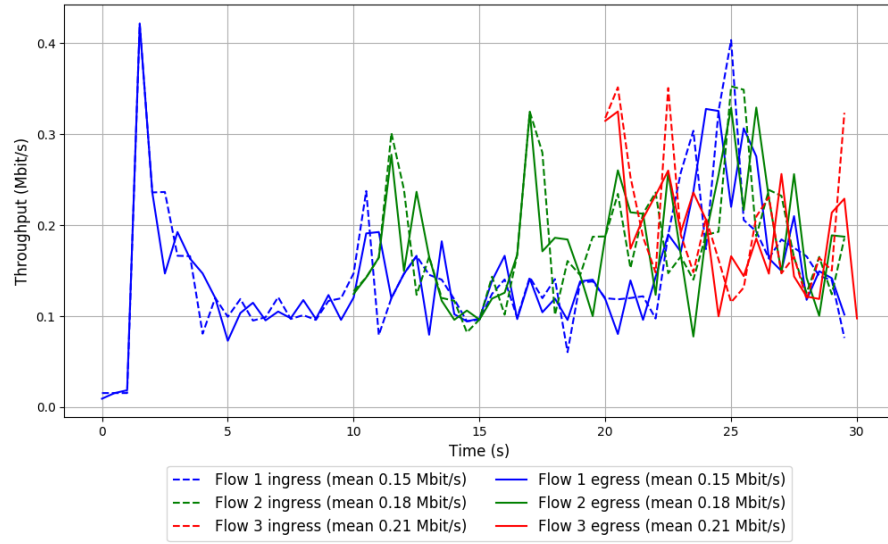


Run 1: Statistics of Sprout

Start at: 2018-04-17 00:18:47
End at: 2018-04-17 00:19:17
Local clock offset: -4.5 ms
Remote clock offset: 10.611 ms

Below is generated by plot.py at 2018-04-17 01:13:48
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.34 Mbit/s
95th percentile per-packet one-way delay: 140.399 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 142.358 ms
Loss rate: 0.20%
-- Flow 2:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 131.651 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 140.965 ms
Loss rate: 0.00%

Run 1: Report of Sprout — Data Link

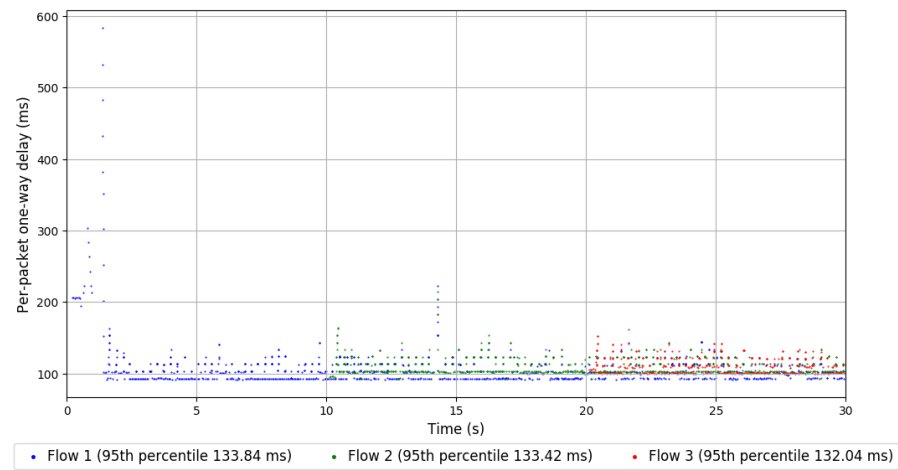
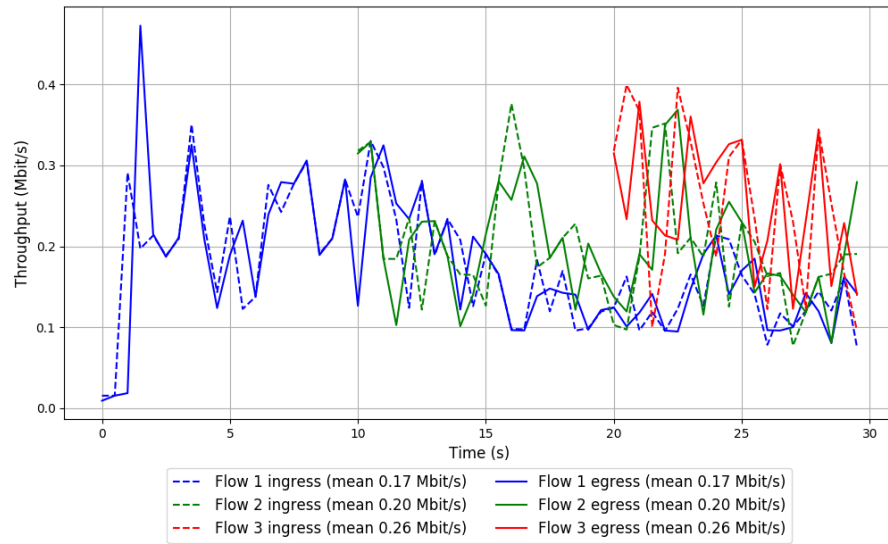


Run 2: Statistics of Sprout

Start at: 2018-04-17 00:40:19
End at: 2018-04-17 00:40:49
Local clock offset: -5.015 ms
Remote clock offset: 4.995 ms

Below is generated by plot.py at 2018-04-17 01:13:48
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.39 Mbit/s
95th percentile per-packet one-way delay: 133.439 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 133.835 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.20 Mbit/s
95th percentile per-packet one-way delay: 133.419 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.26 Mbit/s
95th percentile per-packet one-way delay: 132.043 ms
Loss rate: 0.00%

Run 2: Report of Sprout — Data Link

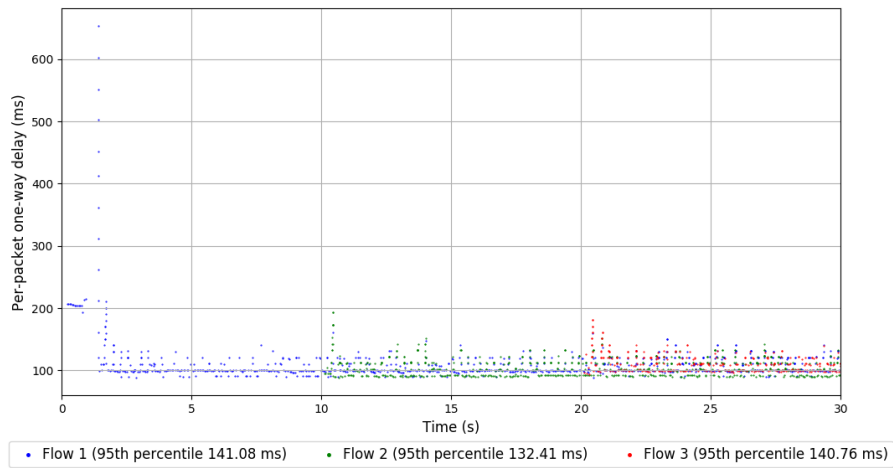
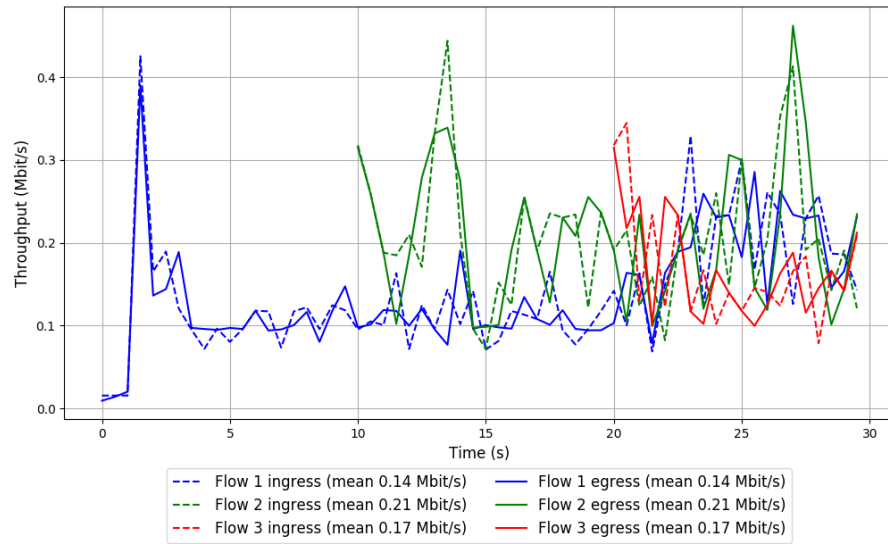


Run 3: Statistics of Sprout

Start at: 2018-04-17 01:01:49
End at: 2018-04-17 01:02:19
Local clock offset: -5.181 ms
Remote clock offset: 5.758 ms

```
# Below is generated by plot.py at 2018-04-17 01:13:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.34 Mbit/s
95th percentile per-packet one-way delay: 140.168 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 141.076 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 132.407 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 140.763 ms
Loss rate: 0.00%
```

Run 3: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

Start at: 2018-04-17 00:23:51

End at: 2018-04-17 00:24:21

Local clock offset: -5.59 ms

Remote clock offset: 4.995 ms

Below is generated by plot.py at 2018-04-17 01:13:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 2.26 Mbit/s

95th percentile per-packet one-way delay: 526.411 ms

Loss rate: 1.16%

-- Flow 1:

Average throughput: 1.36 Mbit/s

95th percentile per-packet one-way delay: 476.896 ms

Loss rate: 0.67%

-- Flow 2:

Average throughput: 1.00 Mbit/s

95th percentile per-packet one-way delay: 545.093 ms

Loss rate: 1.41%

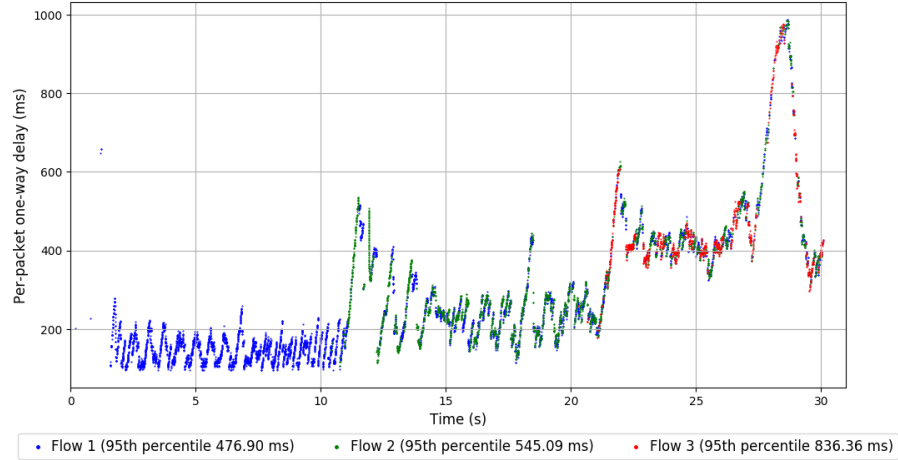
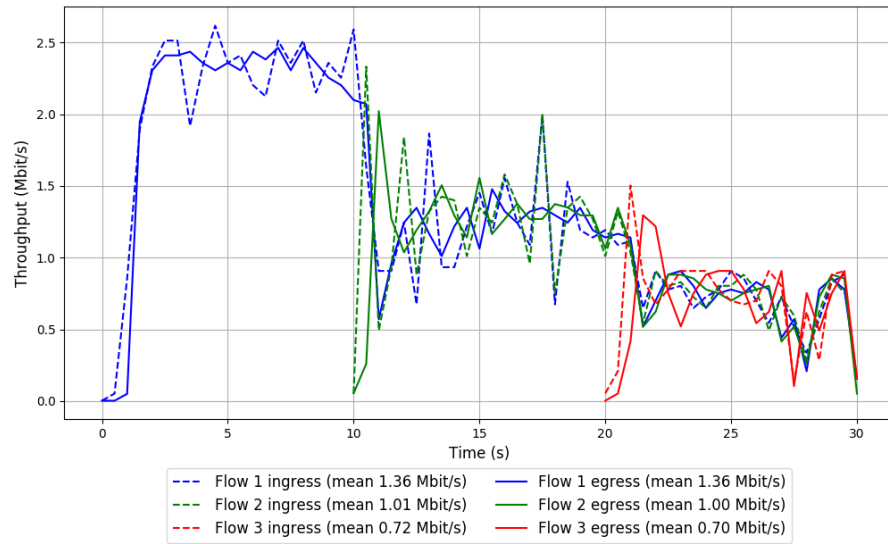
-- Flow 3:

Average throughput: 0.70 Mbit/s

95th percentile per-packet one-way delay: 836.364 ms

Loss rate: 3.28%

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

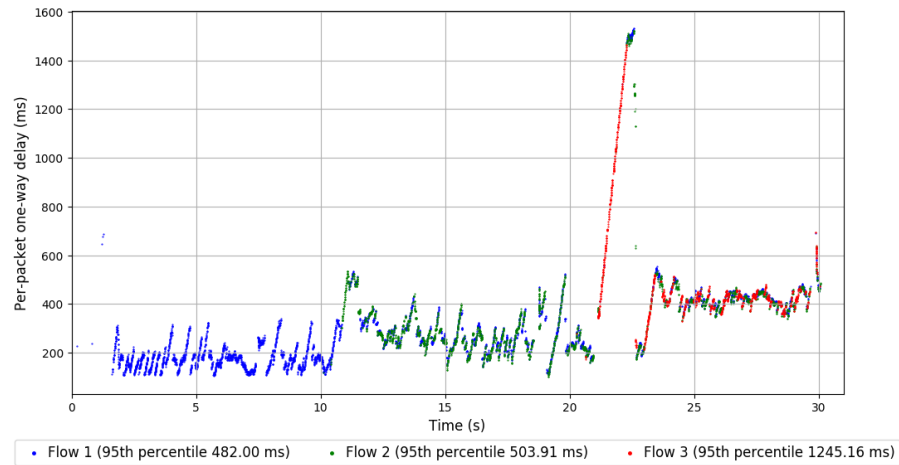
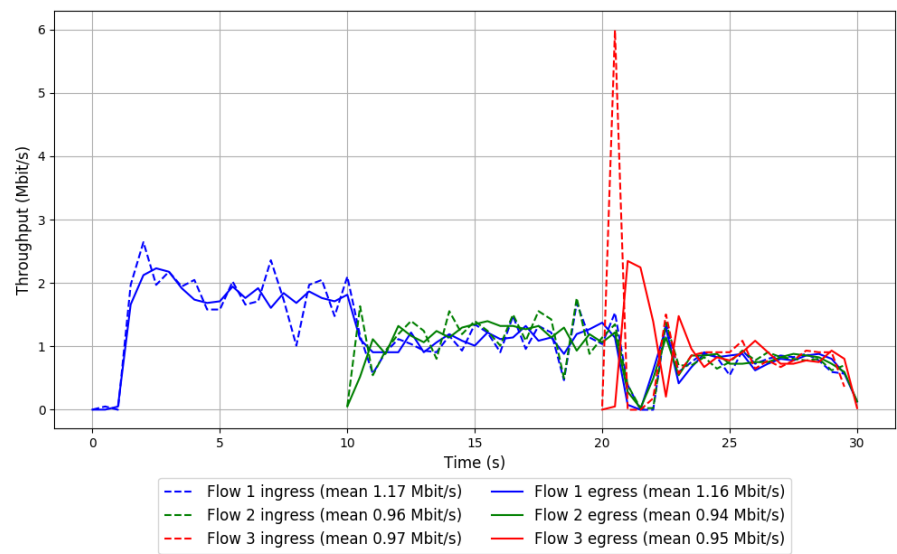


Run 2: Statistics of TaoVA-100x

Start at: 2018-04-17 00:45:23
End at: 2018-04-17 00:45:53
Local clock offset: -5.006 ms
Remote clock offset: 10.629 ms

Below is generated by plot.py at 2018-04-17 01:13:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 2.10 Mbit/s
95th percentile per-packet one-way delay: 609.924 ms
Loss rate: 0.95%
-- Flow 1:
Average throughput: 1.16 Mbit/s
95th percentile per-packet one-way delay: 482.002 ms
Loss rate: 0.53%
-- Flow 2:
Average throughput: 0.94 Mbit/s
95th percentile per-packet one-way delay: 503.908 ms
Loss rate: 1.29%
-- Flow 3:
Average throughput: 0.95 Mbit/s
95th percentile per-packet one-way delay: 1245.156 ms
Loss rate: 1.80%

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

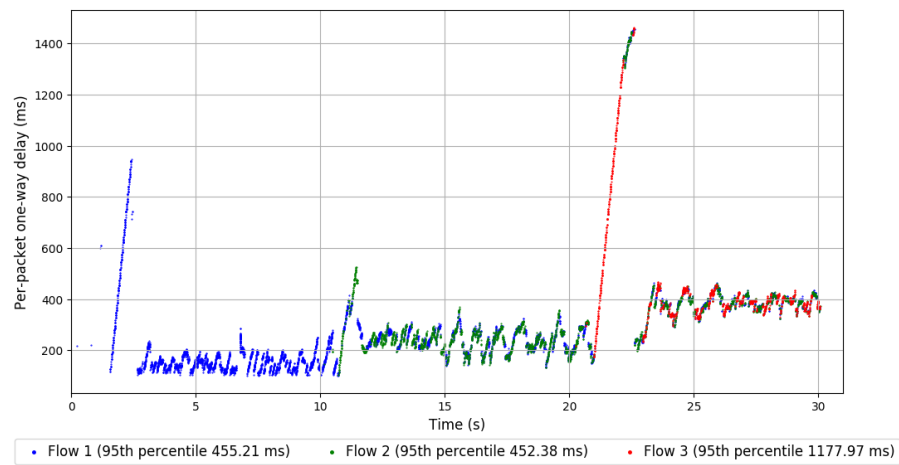
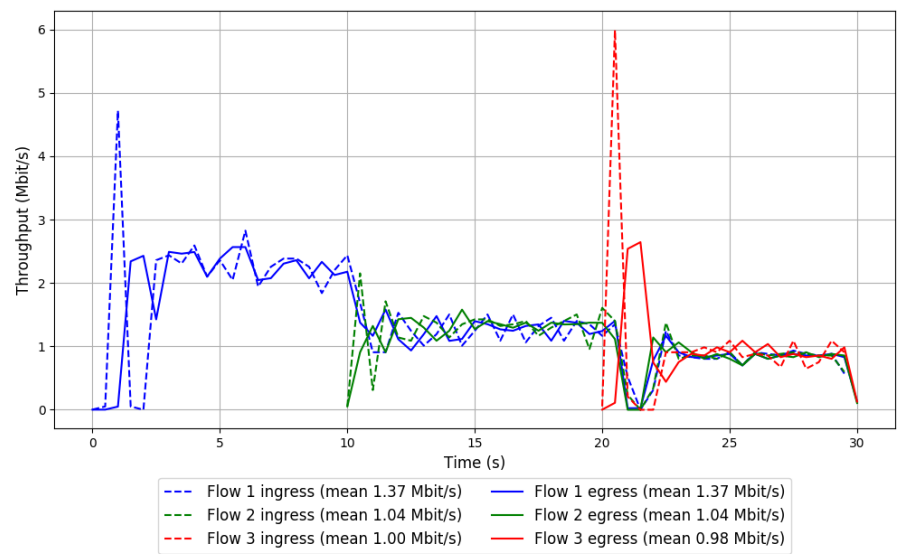


Run 3: Statistics of TaoVA-100x

Start at: 2018-04-17 01:06:52
End at: 2018-04-17 01:07:22
Local clock offset: -5.394 ms
Remote clock offset: 10.592 ms

Below is generated by plot.py at 2018-04-17 01:13:57
Datalink statistics
-- Total of 3 flows:
Average throughput: 2.38 Mbit/s
95th percentile per-packet one-way delay: 711.949 ms
Loss rate: 0.83%
-- Flow 1:
Average throughput: 1.37 Mbit/s
95th percentile per-packet one-way delay: 455.208 ms
Loss rate: 0.44%
-- Flow 2:
Average throughput: 1.04 Mbit/s
95th percentile per-packet one-way delay: 452.384 ms
Loss rate: 0.87%
-- Flow 3:
Average throughput: 0.98 Mbit/s
95th percentile per-packet one-way delay: 1177.973 ms
Loss rate: 2.37%

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



Run 1: Statistics of TCP Vegas

Start at: 2018-04-17 00:16:15

End at: 2018-04-17 00:16:45

Local clock offset: -5.425 ms

Remote clock offset: 9.645 ms

Below is generated by plot.py at 2018-04-17 01:13:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 2.30 Mbit/s

95th percentile per-packet one-way delay: 1266.735 ms

Loss rate: 3.84%

-- Flow 1:

Average throughput: 1.78 Mbit/s

95th percentile per-packet one-way delay: 1217.040 ms

Loss rate: 1.95%

-- Flow 2:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 1275.083 ms

Loss rate: 3.70%

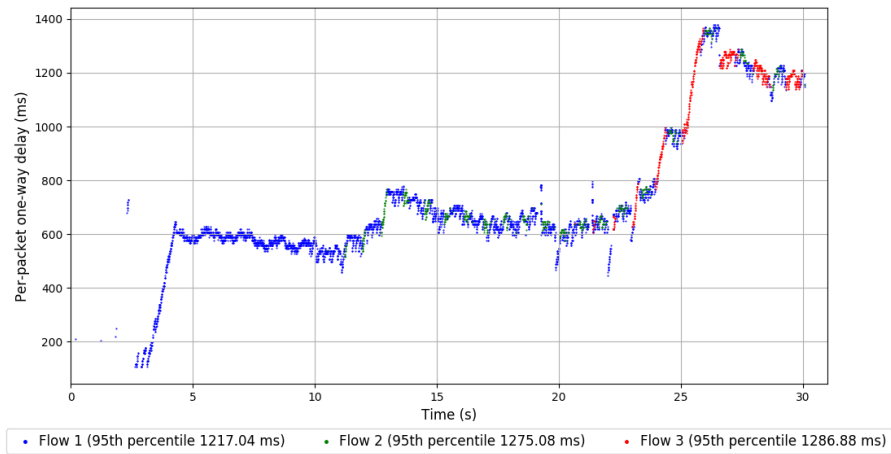
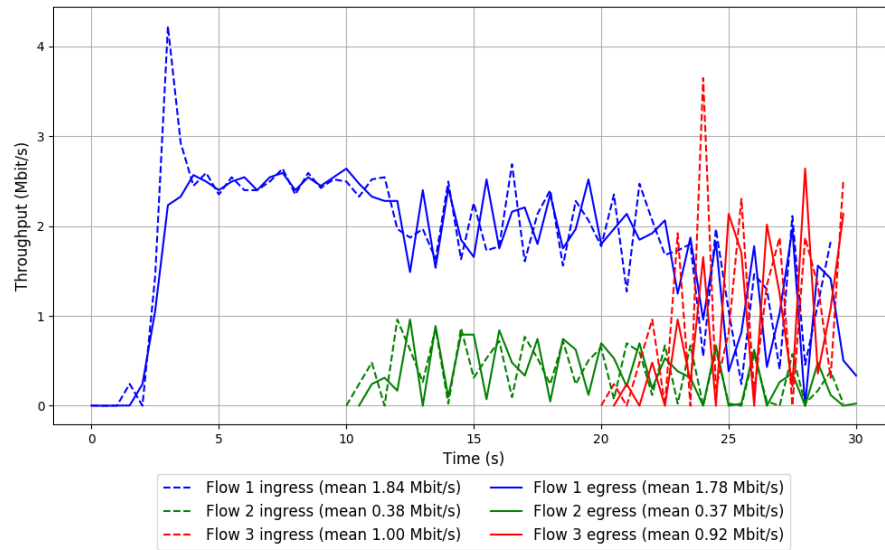
-- Flow 3:

Average throughput: 0.92 Mbit/s

95th percentile per-packet one-way delay: 1286.878 ms

Loss rate: 14.18%

Run 1: Report of TCP Vegas — Data Link

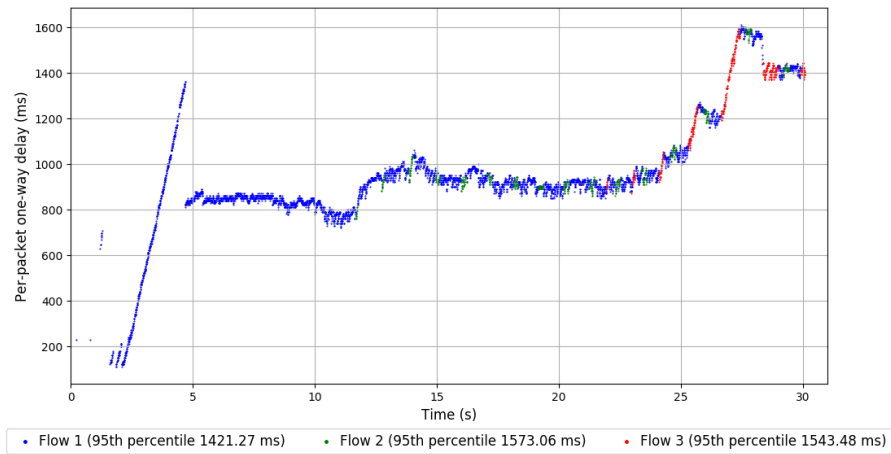
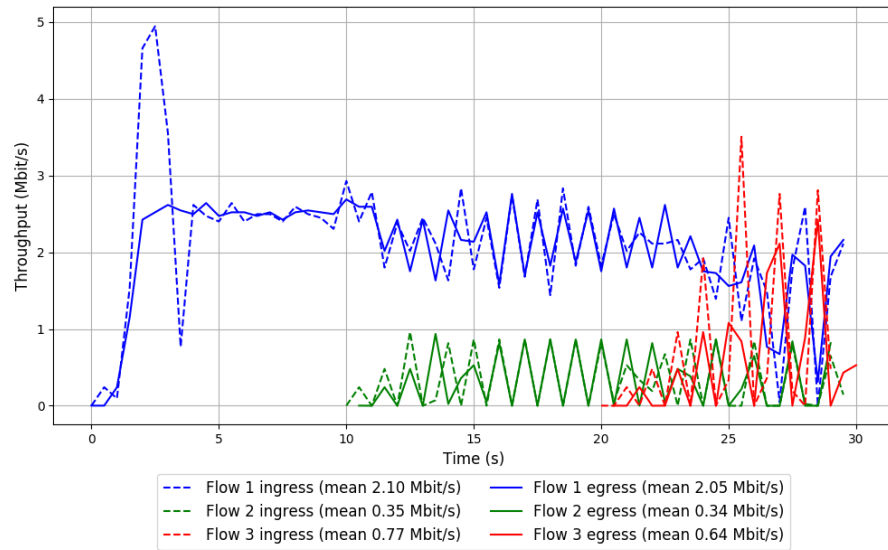


Run 2: Statistics of TCP Vegas

Start at: 2018-04-17 00:37:47
End at: 2018-04-17 00:38:17
Local clock offset: -4.308 ms
Remote clock offset: 11.516 ms

Below is generated by plot.py at 2018-04-17 01:13:57
Datalink statistics
-- Total of 3 flows:
Average throughput: 2.45 Mbit/s
95th percentile per-packet one-way delay: 1443.231 ms
Loss rate: 4.51%
-- Flow 1:
Average throughput: 2.05 Mbit/s
95th percentile per-packet one-way delay: 1421.267 ms
Loss rate: 3.02%
-- Flow 2:
Average throughput: 0.34 Mbit/s
95th percentile per-packet one-way delay: 1573.060 ms
Loss rate: 5.80%
-- Flow 3:
Average throughput: 0.64 Mbit/s
95th percentile per-packet one-way delay: 1543.481 ms
Loss rate: 16.57%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-04-17 00:59:18

End at: 2018-04-17 00:59:48

Local clock offset: -4.924 ms

Remote clock offset: 5.841 ms

Below is generated by plot.py at 2018-04-17 01:13:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 2.36 Mbit/s

95th percentile per-packet one-way delay: 1638.061 ms

Loss rate: 5.55%

-- Flow 1:

Average throughput: 1.88 Mbit/s

95th percentile per-packet one-way delay: 1427.521 ms

Loss rate: 2.64%

-- Flow 2:

Average throughput: 0.55 Mbit/s

95th percentile per-packet one-way delay: 1765.989 ms

Loss rate: 7.11%

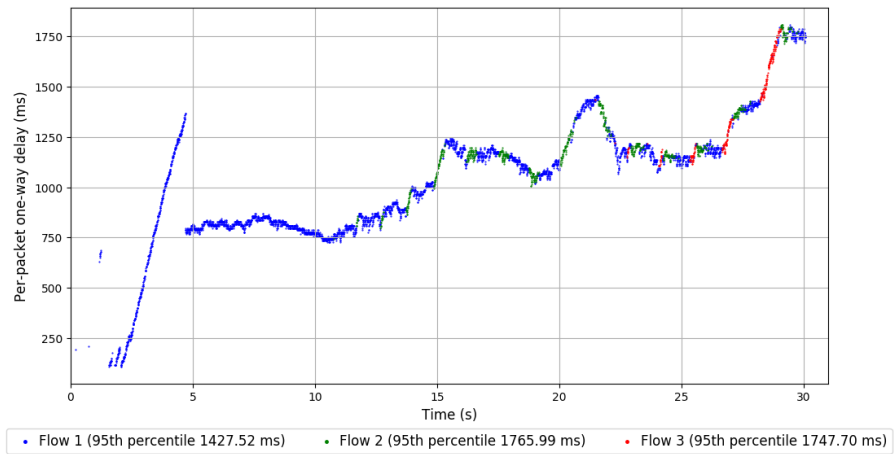
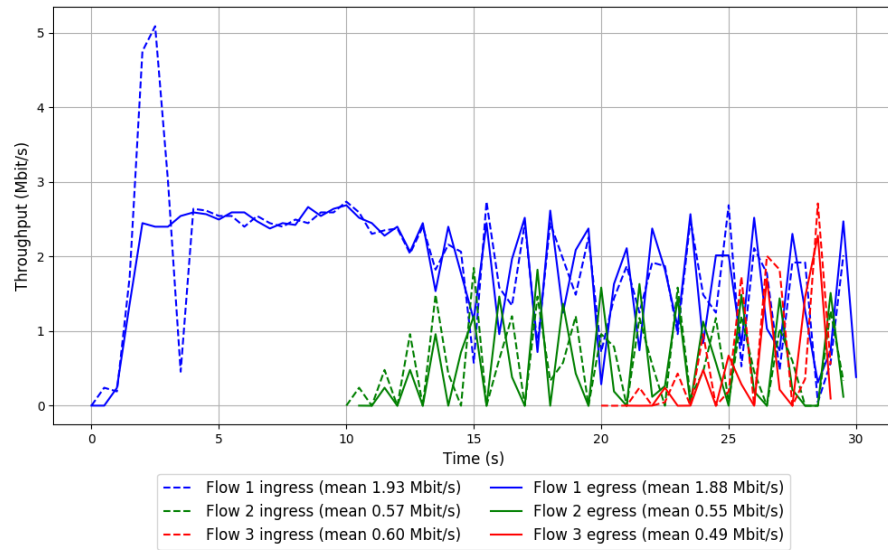
-- Flow 3:

Average throughput: 0.49 Mbit/s

95th percentile per-packet one-way delay: 1747.703 ms

Loss rate: 32.76%

Run 3: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-04-17 00:13:44

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

Local clock offset: -4.665 ms

Remote clock offset: 4.961 ms

Below is generated by plot.py at 2018-04-17 01:13:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 2.46 Mbit/s

95th percentile per-packet one-way delay: 1618.326 ms

Loss rate: 4.04%

-- Flow 1:

Average throughput: 2.45 Mbit/s

95th percentile per-packet one-way delay: 1618.319 ms

Loss rate: 4.03%

-- Flow 2:

Average throughput: 0.01 Mbit/s

95th percentile per-packet one-way delay: 1672.546 ms

Loss rate: 5.00%

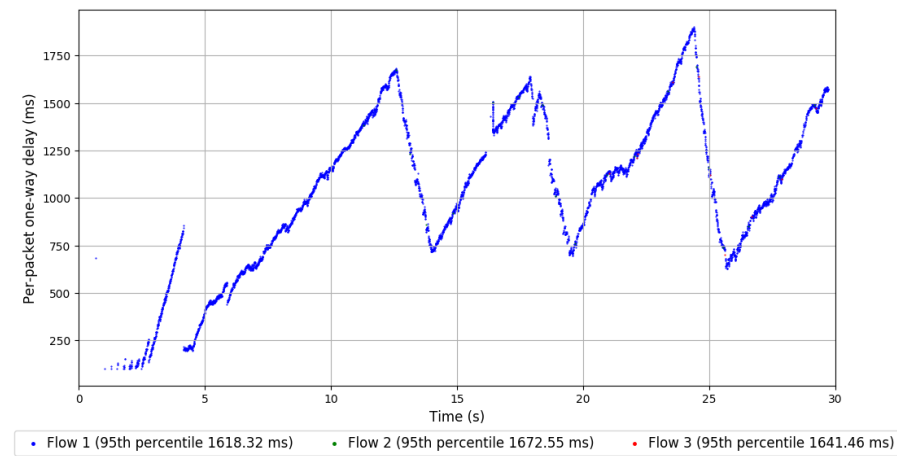
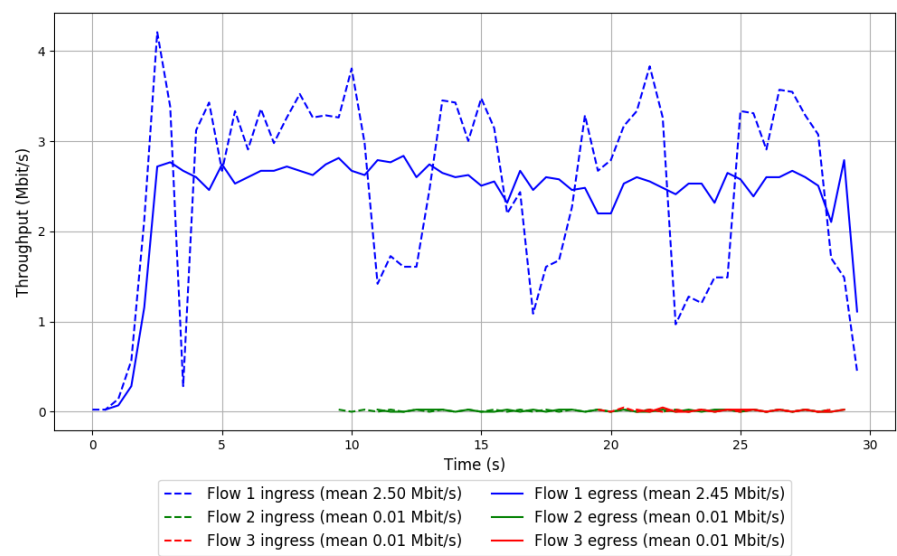
-- Flow 3:

Average throughput: 0.01 Mbit/s

95th percentile per-packet one-way delay: 1641.458 ms

Loss rate: 9.09%

Run 1: Report of Verus — Data Link

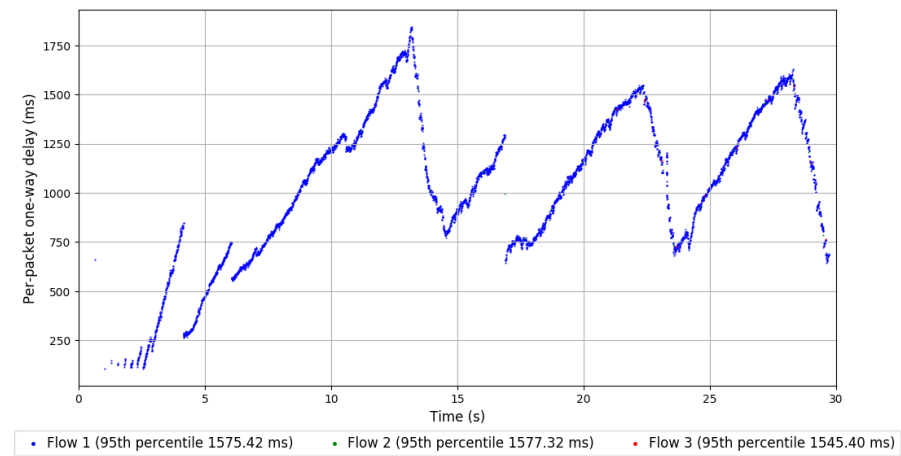
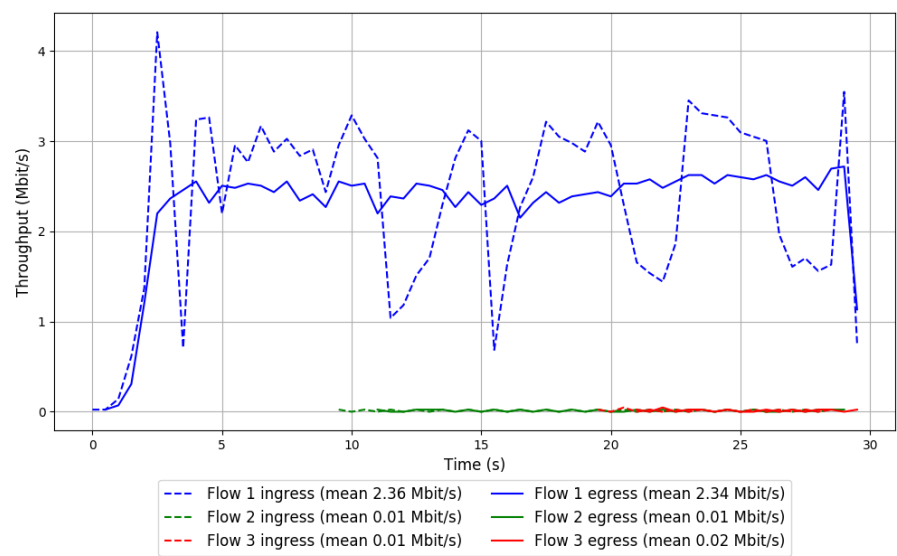


Run 2: Statistics of Verus

Start at: 2018-04-17 00:35:14
End at: 2018-04-17 00:35:44
Local clock offset: -4.377 ms
Remote clock offset: 11.454 ms

Below is generated by plot.py at 2018-04-17 01:13:57
Datalink statistics
-- Total of 3 flows:
Average throughput: 2.35 Mbit/s
95th percentile per-packet one-way delay: 1575.422 ms
Loss rate: 2.97%
-- Flow 1:
Average throughput: 2.34 Mbit/s
95th percentile per-packet one-way delay: 1575.422 ms
Loss rate: 2.99%
-- Flow 2:
Average throughput: 0.01 Mbit/s
95th percentile per-packet one-way delay: 1577.318 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.02 Mbit/s
95th percentile per-packet one-way delay: 1545.397 ms
Loss rate: 0.00%

Run 2: Report of Verus — Data Link

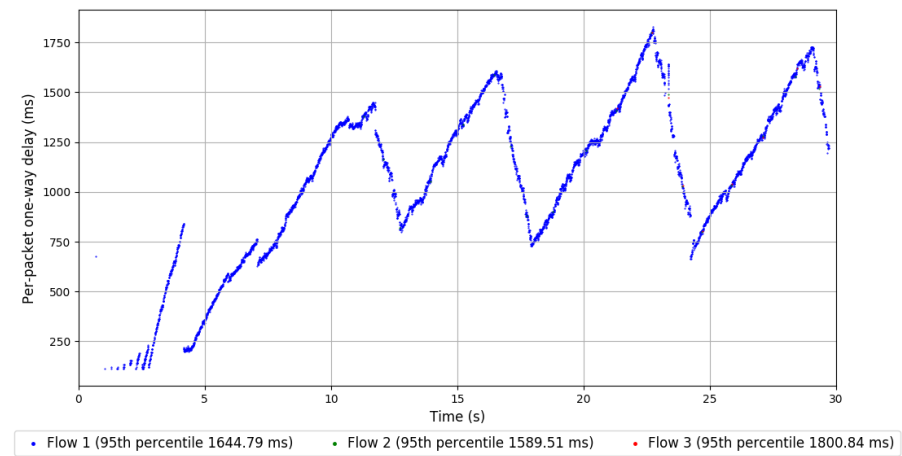
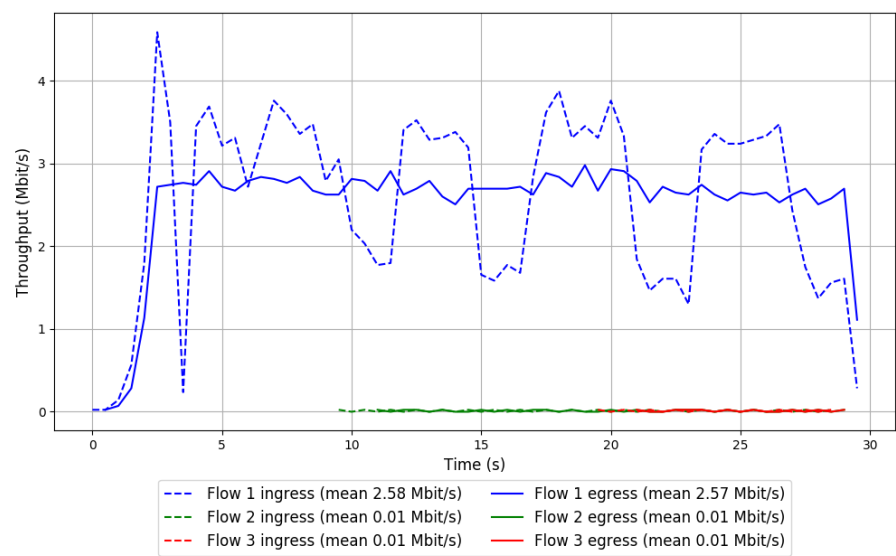


Run 3: Statistics of Verus

Start at: 2018-04-17 00:56:46
End at: 2018-04-17 00:57:16
Local clock offset: -5.59 ms
Remote clock offset: 10.576 ms

Below is generated by plot.py at 2018-04-17 01:14:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 2.58 Mbit/s
95th percentile per-packet one-way delay: 1644.785 ms
Loss rate: 2.28%
-- Flow 1:
Average throughput: 2.57 Mbit/s
95th percentile per-packet one-way delay: 1644.785 ms
Loss rate: 2.26%
-- Flow 2:
Average throughput: 0.01 Mbit/s
95th percentile per-packet one-way delay: 1589.507 ms
Loss rate: 5.00%
-- Flow 3:
Average throughput: 0.01 Mbit/s
95th percentile per-packet one-way delay: 1800.839 ms
Loss rate: 10.00%

Run 3: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2018-04-17 00:09:55

End at: 2018-04-17 00:10:25

Local clock offset: -6.188 ms

Remote clock offset: 9.819 ms

Below is generated by plot.py at 2018-04-17 01:14:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 1.96 Mbit/s

95th percentile per-packet one-way delay: 253.009 ms

Loss rate: 0.79%

-- Flow 1:

Average throughput: 1.19 Mbit/s

95th percentile per-packet one-way delay: 245.618 ms

Loss rate: 0.47%

-- Flow 2:

Average throughput: 0.83 Mbit/s

95th percentile per-packet one-way delay: 246.957 ms

Loss rate: 0.93%

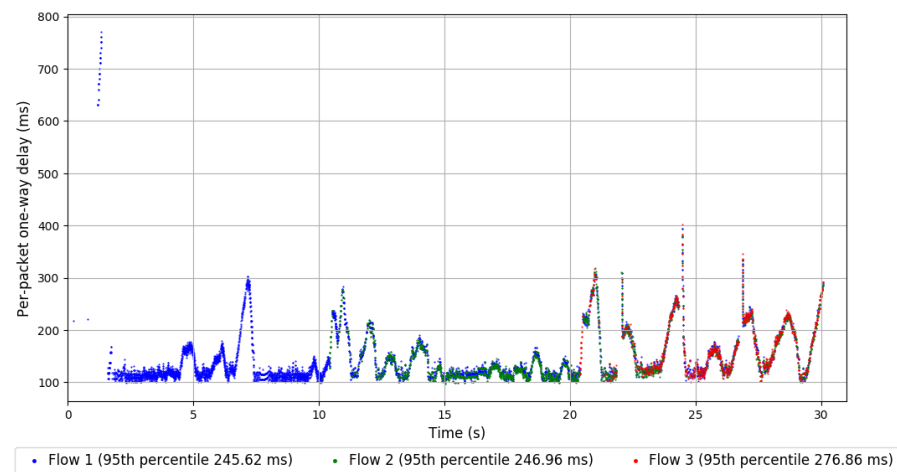
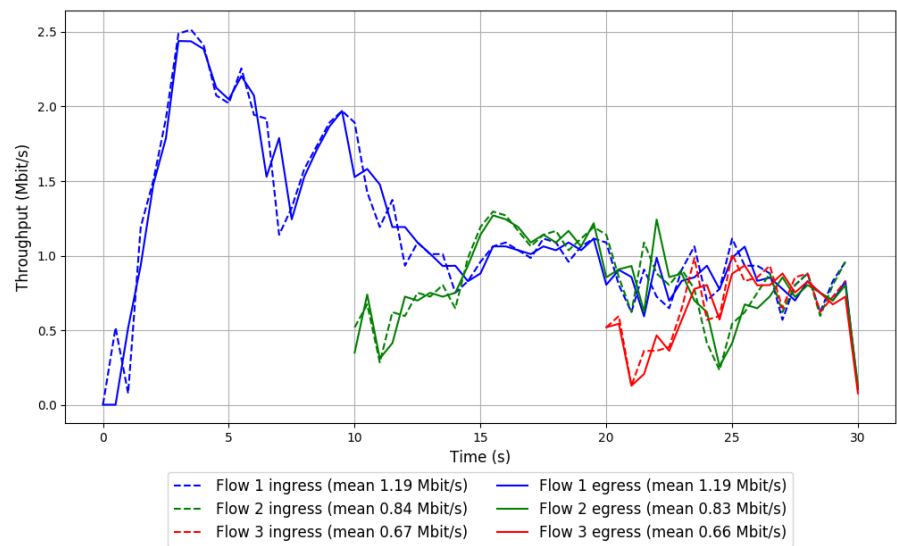
-- Flow 3:

Average throughput: 0.66 Mbit/s

95th percentile per-packet one-way delay: 276.856 ms

Loss rate: 2.14%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-04-17 00:31:26

End at: 2018-04-17 00:31:56

Local clock offset: -4.526 ms

Remote clock offset: 9.756 ms

Below is generated by plot.py at 2018-04-17 01:14:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 1.97 Mbit/s

95th percentile per-packet one-way delay: 301.751 ms

Loss rate: 0.50%

-- Flow 1:

Average throughput: 1.11 Mbit/s

95th percentile per-packet one-way delay: 289.359 ms

Loss rate: 0.23%

-- Flow 2:

Average throughput: 0.93 Mbit/s

95th percentile per-packet one-way delay: 298.680 ms

Loss rate: 0.55%

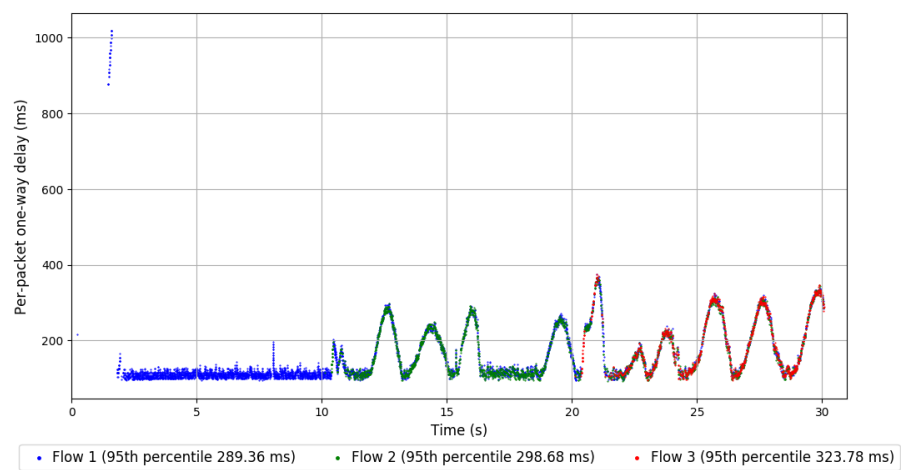
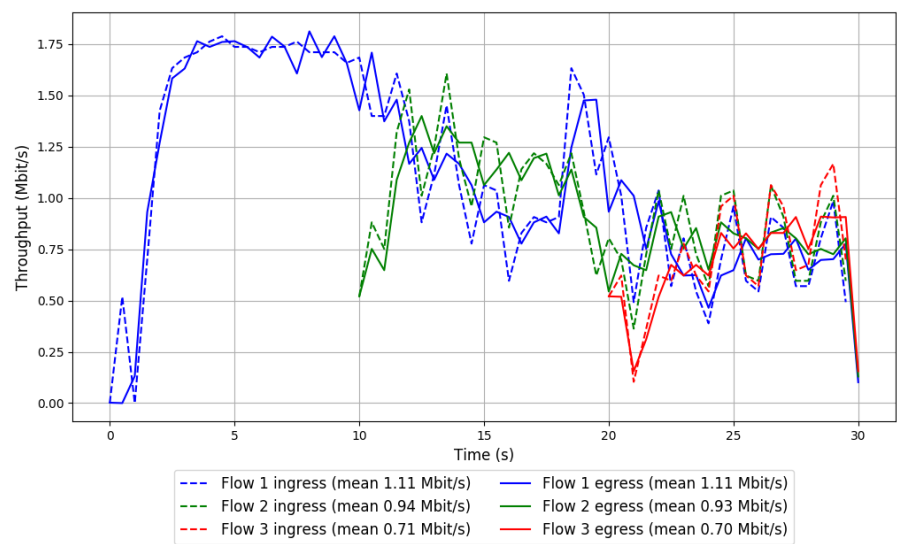
-- Flow 3:

Average throughput: 0.70 Mbit/s

95th percentile per-packet one-way delay: 323.784 ms

Loss rate: 1.64%

Run 2: Report of Copa — Data Link

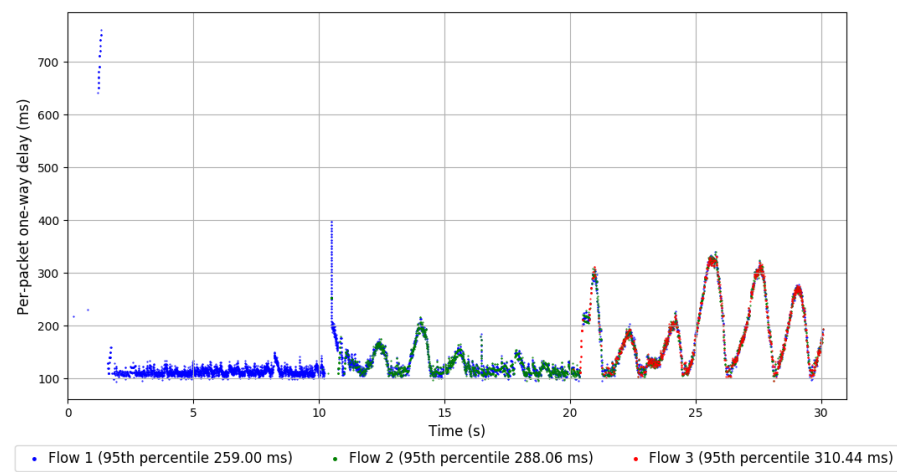
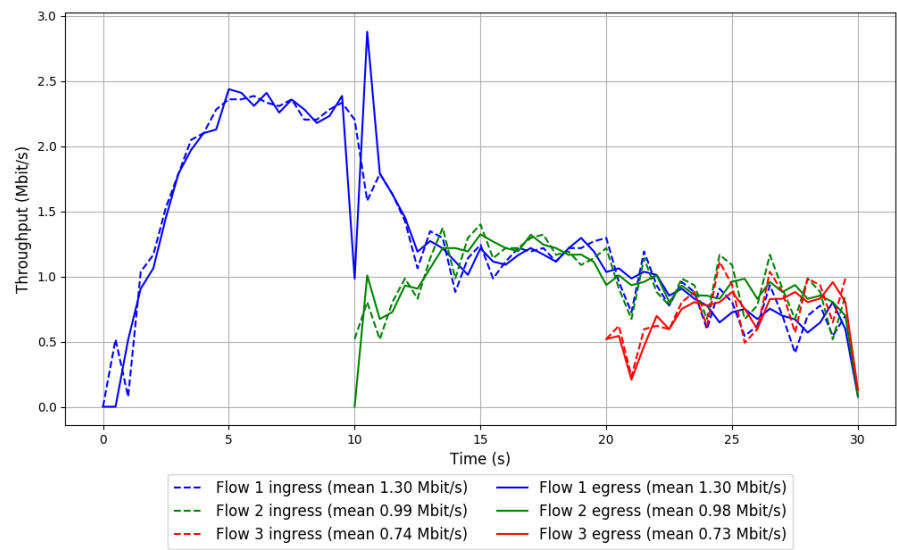


Run 3: Statistics of Copa

Start at: 2018-04-17 00:52:57
End at: 2018-04-17 00:53:27
Local clock offset: -4.353 ms
Remote clock offset: 10.579 ms

Below is generated by plot.py at 2018-04-17 01:14:06
Datalink statistics
-- Total of 3 flows:
Average throughput: 2.20 Mbit/s
95th percentile per-packet one-way delay: 284.565 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 1.30 Mbit/s
95th percentile per-packet one-way delay: 258.997 ms
Loss rate: 0.20%
-- Flow 2:
Average throughput: 0.98 Mbit/s
95th percentile per-packet one-way delay: 288.058 ms
Loss rate: 0.52%
-- Flow 3:
Average throughput: 0.73 Mbit/s
95th percentile per-packet one-way delay: 310.444 ms
Loss rate: 1.41%

Run 3: Report of Copa — Data Link

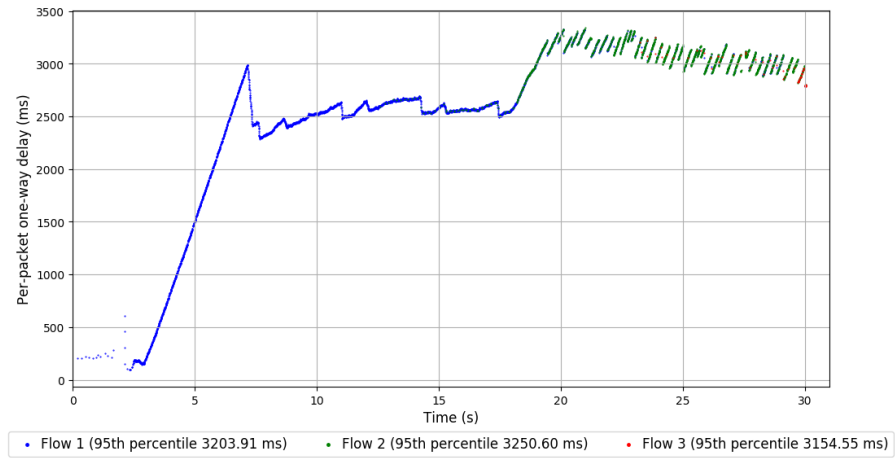
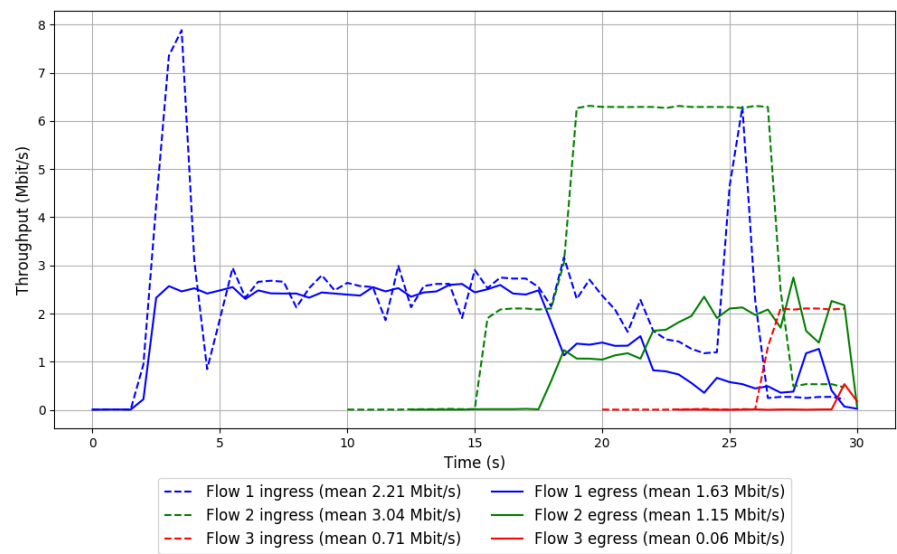


Run 1: Statistics of FillP

Start at: 2018-04-17 00:26:22
End at: 2018-04-17 00:26:52
Local clock offset: -4.751 ms
Remote clock offset: 10.617 ms

Below is generated by plot.py at 2018-04-17 01:14:06
Datalink statistics
-- Total of 3 flows:
Average throughput: 2.31 Mbit/s
95th percentile per-packet one-way delay: 3229.449 ms
Loss rate: 48.30%
-- Flow 1:
Average throughput: 1.63 Mbit/s
95th percentile per-packet one-way delay: 3203.909 ms
Loss rate: 26.30%
-- Flow 2:
Average throughput: 1.15 Mbit/s
95th percentile per-packet one-way delay: 3250.597 ms
Loss rate: 66.93%
-- Flow 3:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 3154.546 ms
Loss rate: 94.42%

Run 1: Report of FillP — Data Link

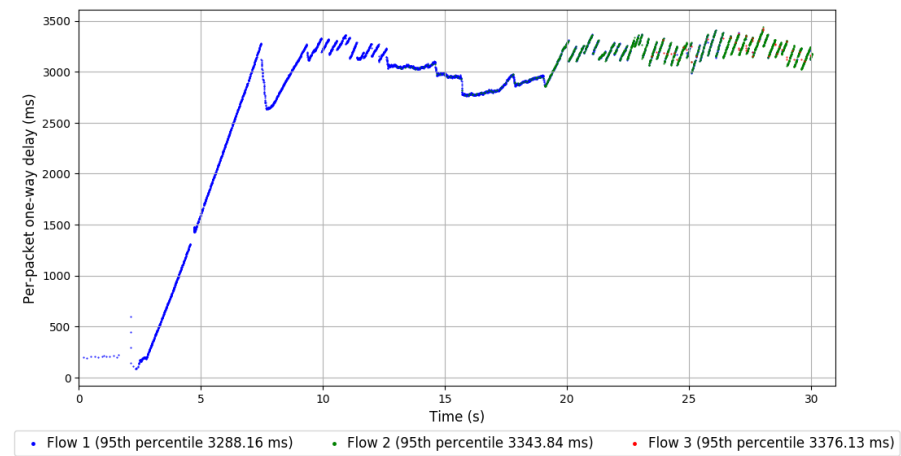
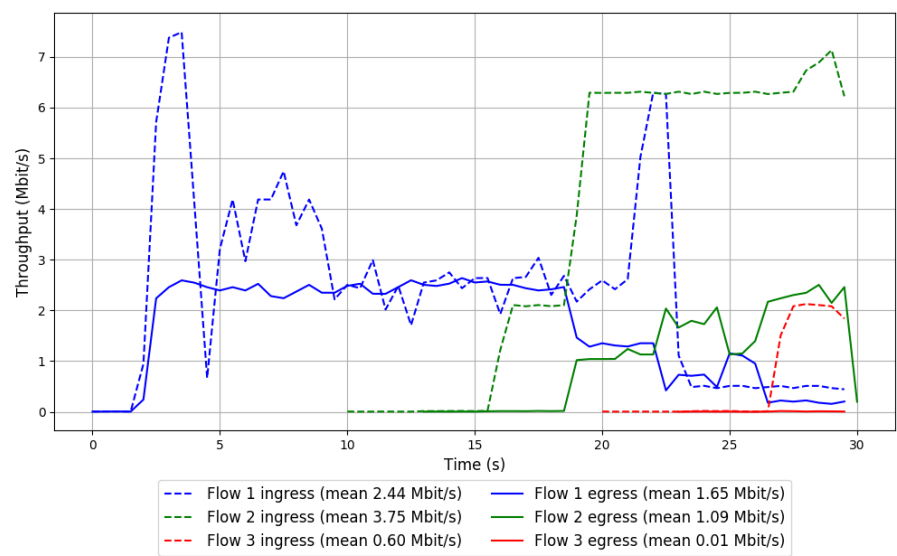


Run 2: Statistics of FillP

Start at: 2018-04-17 00:47:54
End at: 2018-04-17 00:48:24
Local clock offset: -3.387 ms
Remote clock offset: 4.917 ms

Below is generated by plot.py at 2018-04-17 01:14:06
Datalink statistics
-- Total of 3 flows:
Average throughput: 2.27 Mbit/s
95th percentile per-packet one-way delay: 3314.430 ms
Loss rate: 55.94%
-- Flow 1:
Average throughput: 1.65 Mbit/s
95th percentile per-packet one-way delay: 3288.155 ms
Loss rate: 32.63%
-- Flow 2:
Average throughput: 1.09 Mbit/s
95th percentile per-packet one-way delay: 3343.845 ms
Loss rate: 75.20%
-- Flow 3:
Average throughput: 0.01 Mbit/s
95th percentile per-packet one-way delay: 3376.128 ms
Loss rate: 99.25%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-04-17 01:09:24

End at: 2018-04-17 01:09:54

Local clock offset: -5.352 ms

Remote clock offset: 5.731 ms

Below is generated by plot.py at 2018-04-17 01:14:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 2.14 Mbit/s

95th percentile per-packet one-way delay: 3555.589 ms

Loss rate: 54.13%

-- Flow 1:

Average throughput: 1.63 Mbit/s

95th percentile per-packet one-way delay: 3357.596 ms

Loss rate: 28.87%

-- Flow 2:

Average throughput: 0.90 Mbit/s

95th percentile per-packet one-way delay: 3630.183 ms

Loss rate: 76.73%

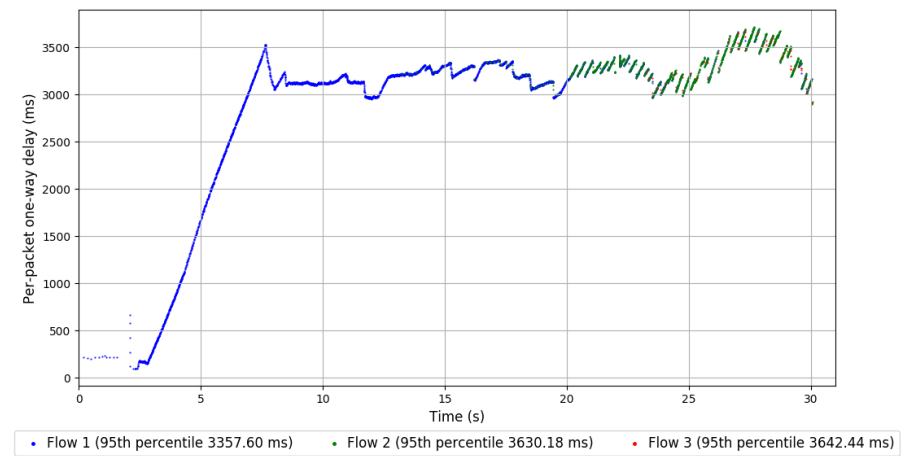
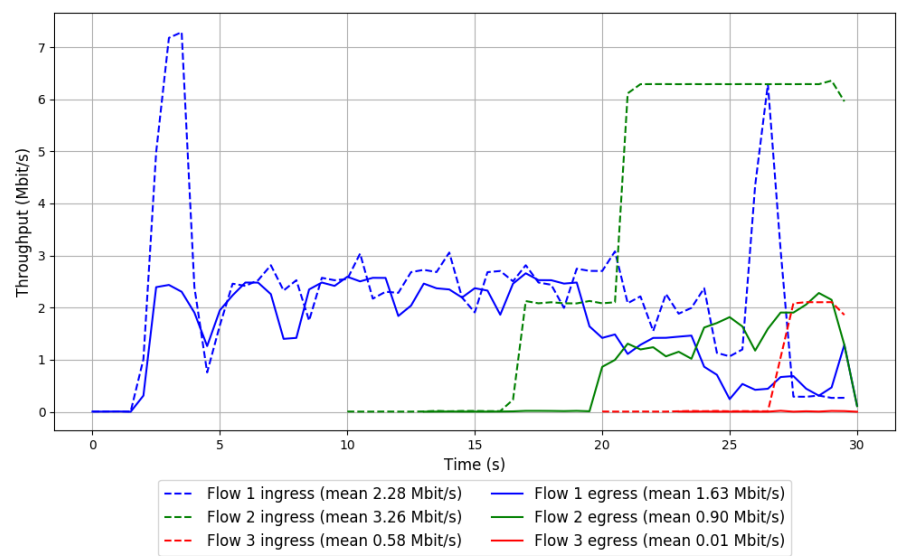
-- Flow 3:

Average throughput: 0.01 Mbit/s

95th percentile per-packet one-way delay: 3642.439 ms

Loss rate: 99.08%

Run 3: Report of FillP — Data Link

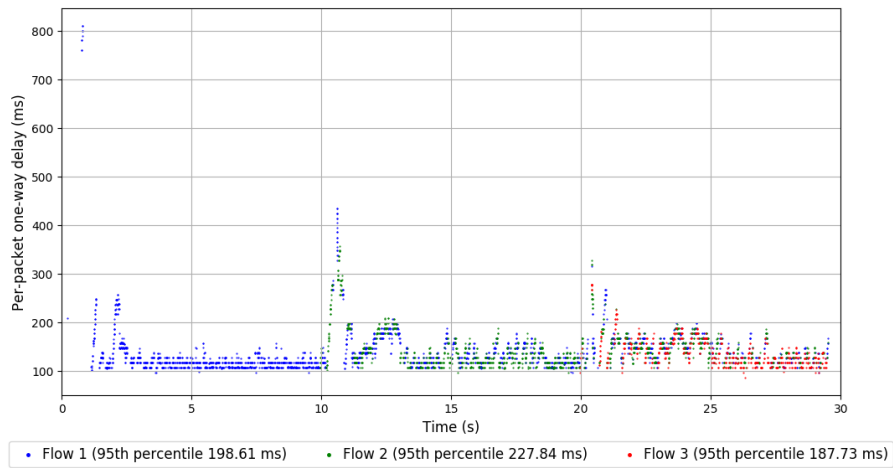
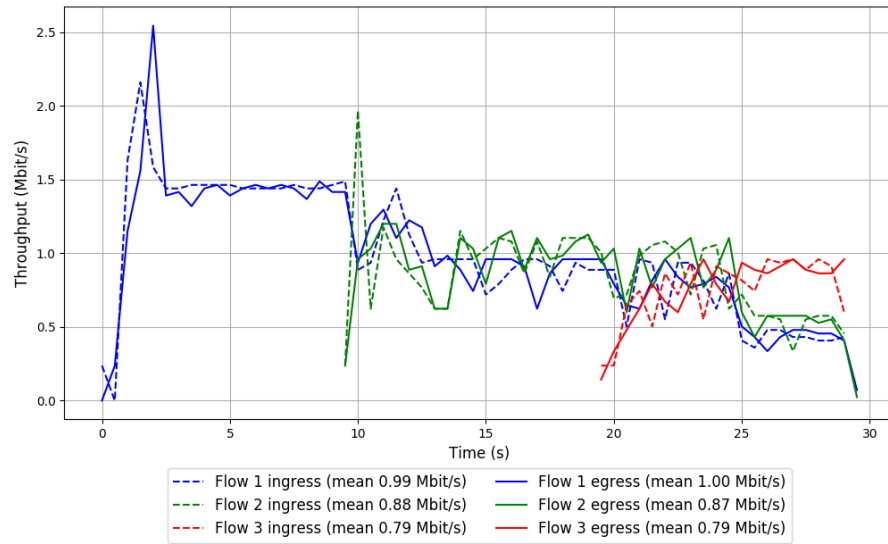


```
Run 1: Statistics of Indigo-1-32

Start at: 2018-04-17 00:22:35
End at: 2018-04-17 00:23:05
Local clock offset: -5.742 ms
Remote clock offset: 5.037 ms

# Below is generated by plot.py at 2018-04-17 01:14:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.83 Mbit/s
95th percentile per-packet one-way delay: 207.066 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 1.00 Mbit/s
95th percentile per-packet one-way delay: 198.606 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.87 Mbit/s
95th percentile per-packet one-way delay: 227.838 ms
Loss rate: 0.28%
-- Flow 3:
Average throughput: 0.79 Mbit/s
95th percentile per-packet one-way delay: 187.734 ms
Loss rate: 0.00%
```

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

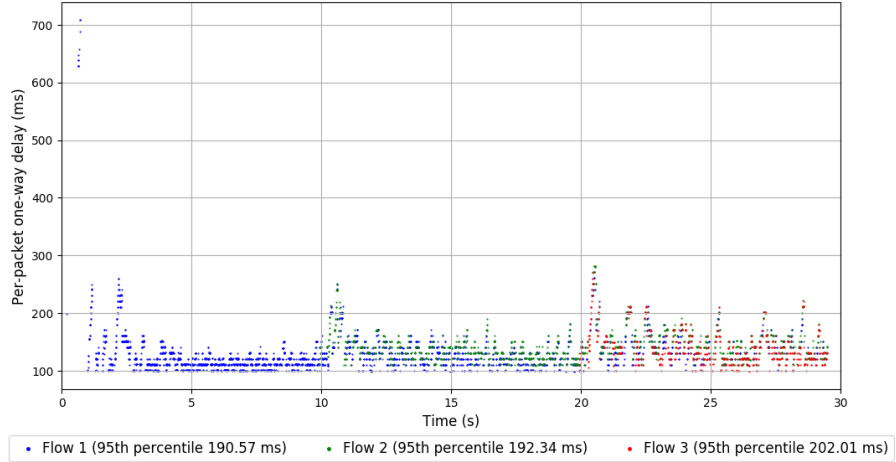
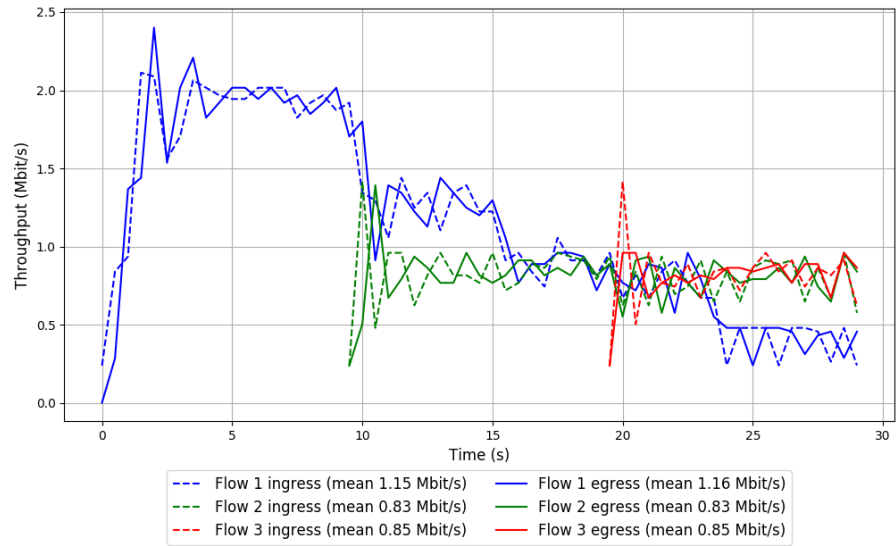


Run 2: Statistics of Indigo-1-32

Start at: 2018-04-17 00:44:07
End at: 2018-04-17 00:44:37
Local clock offset: -3.434 ms
Remote clock offset: 10.606 ms

Below is generated by plot.py at 2018-04-17 01:14:07
Datalink statistics
-- Total of 3 flows:
Average throughput: 1.98 Mbit/s
95th percentile per-packet one-way delay: 200.559 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.16 Mbit/s
95th percentile per-packet one-way delay: 190.575 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.83 Mbit/s
95th percentile per-packet one-way delay: 192.338 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.85 Mbit/s
95th percentile per-packet one-way delay: 202.012 ms
Loss rate: 0.00%

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

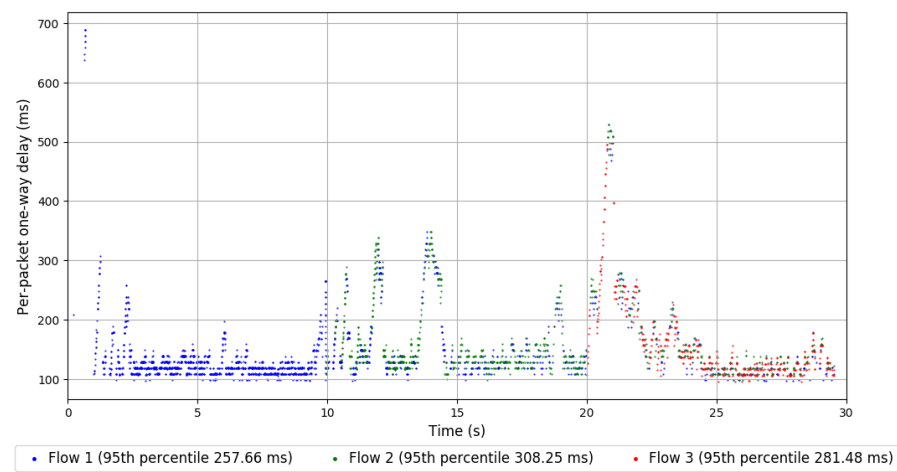
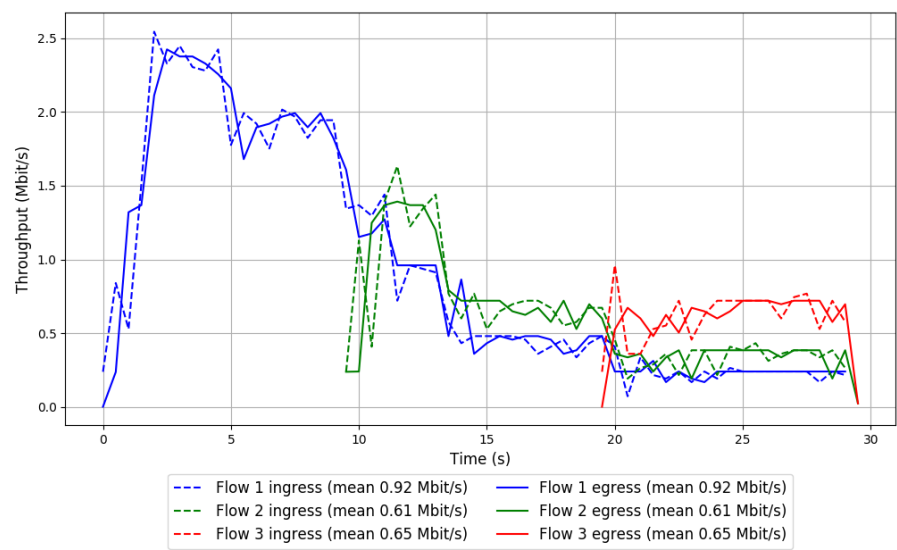


Run 3: Statistics of Indigo-1-32

Start at: 2018-04-17 01:05:36
End at: 2018-04-17 01:06:06
Local clock offset: -4.509 ms
Remote clock offset: 11.379 ms

Below is generated by plot.py at 2018-04-17 01:14:08
Datalink statistics
-- Total of 3 flows:
Average throughput: 1.53 Mbit/s
95th percentile per-packet one-way delay: 278.173 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 0.92 Mbit/s
95th percentile per-packet one-way delay: 257.658 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.61 Mbit/s
95th percentile per-packet one-way delay: 308.254 ms
Loss rate: 0.20%
-- Flow 3:
Average throughput: 0.65 Mbit/s
95th percentile per-packet one-way delay: 281.480 ms
Loss rate: 0.39%

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



Run 1: Statistics of PCC-Vivace

Start at: 2018-04-17 00:21:18

End at: 2018-04-17 00:21:48

Local clock offset: -5.792 ms

Remote clock offset: 4.992 ms

Below is generated by plot.py at 2018-04-17 01:14:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 2.01 Mbit/s

95th percentile per-packet one-way delay: 3053.394 ms

Loss rate: 16.16%

-- Flow 1:

Average throughput: 1.10 Mbit/s

95th percentile per-packet one-way delay: 3012.267 ms

Loss rate: 14.37%

-- Flow 2:

Average throughput: 1.37 Mbit/s

95th percentile per-packet one-way delay: 3150.206 ms

Loss rate: 18.22%

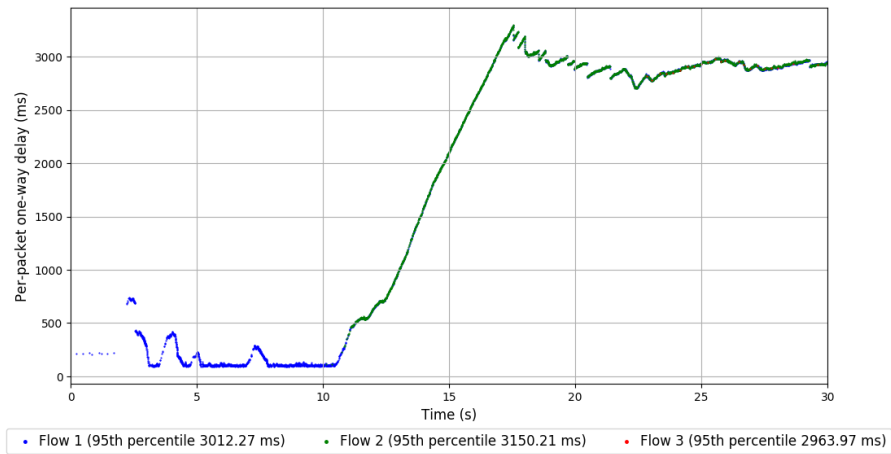
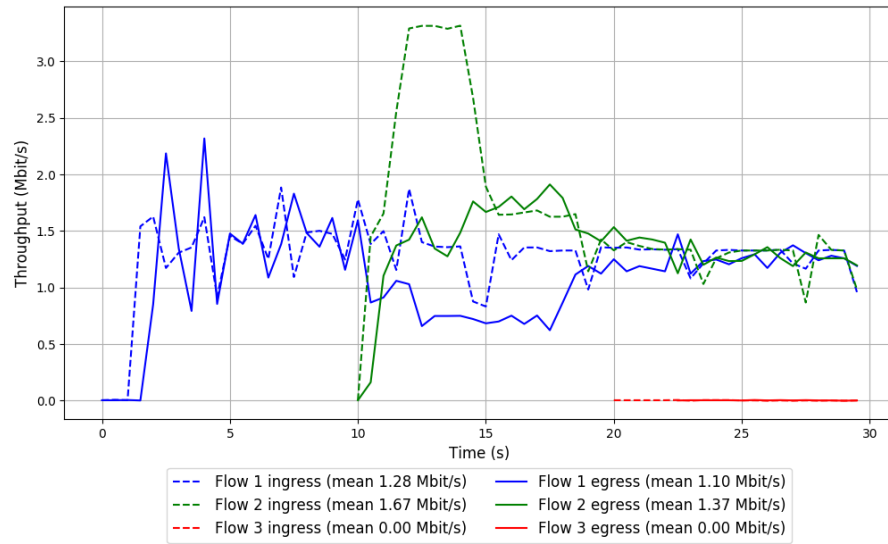
-- Flow 3:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 2963.970 ms

Loss rate: 11.51%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2018-04-17 00:42:51

End at: 2018-04-17 00:43:21

Local clock offset: -3.477 ms

Remote clock offset: 11.42 ms

Below is generated by plot.py at 2018-04-17 01:14:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 2.20 Mbit/s

95th percentile per-packet one-way delay: 2406.471 ms

Loss rate: 9.02%

-- Flow 1:

Average throughput: 1.29 Mbit/s

95th percentile per-packet one-way delay: 2403.302 ms

Loss rate: 8.21%

-- Flow 2:

Average throughput: 1.36 Mbit/s

95th percentile per-packet one-way delay: 2411.801 ms

Loss rate: 10.16%

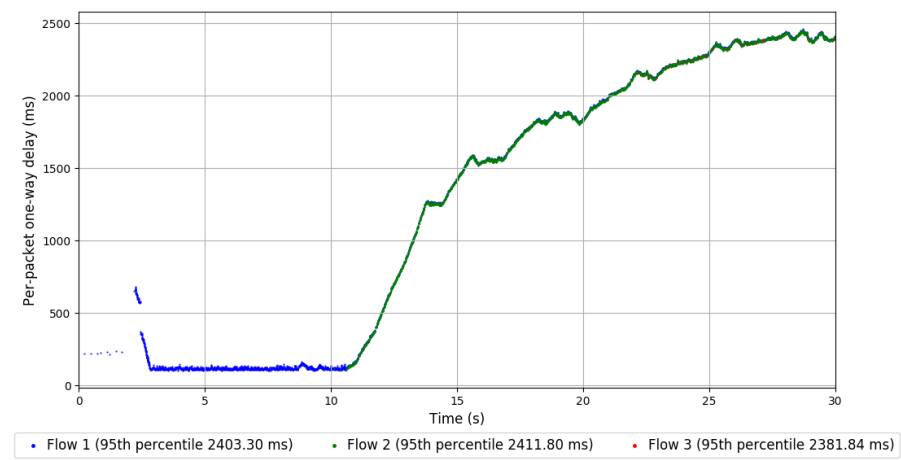
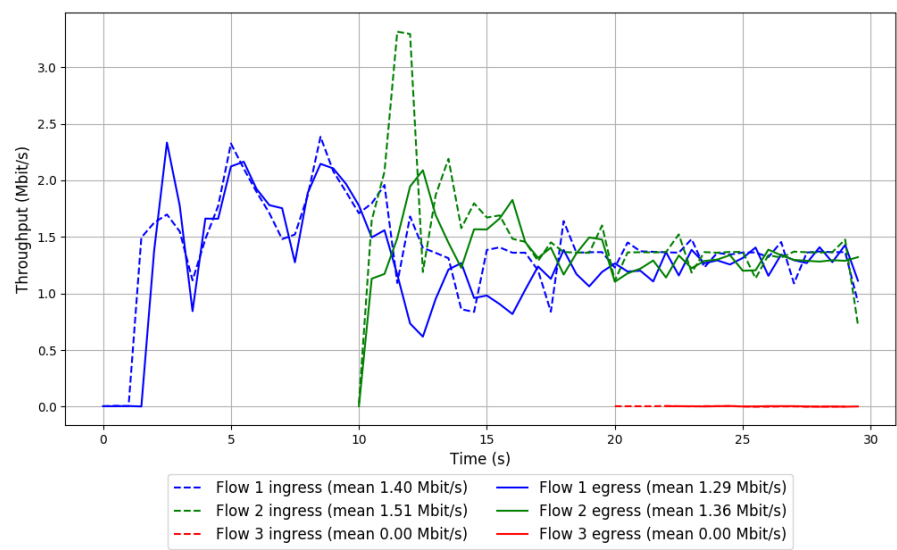
-- Flow 3:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 2381.839 ms

Loss rate: 7.73%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2018-04-17 01:04:21

End at: 2018-04-17 01:04:51

Local clock offset: -5.992 ms

Remote clock offset: 5.817 ms

Below is generated by plot.py at 2018-04-17 01:14:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 2.11 Mbit/s

95th percentile per-packet one-way delay: 2944.972 ms

Loss rate: 13.70%

-- Flow 1:

Average throughput: 1.21 Mbit/s

95th percentile per-packet one-way delay: 2940.425 ms

Loss rate: 13.60%

-- Flow 2:

Average throughput: 1.34 Mbit/s

95th percentile per-packet one-way delay: 2949.522 ms

Loss rate: 13.84%

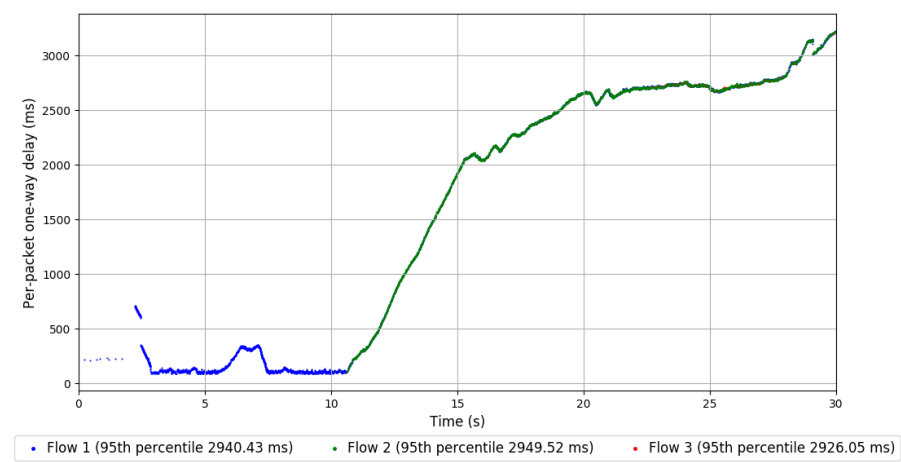
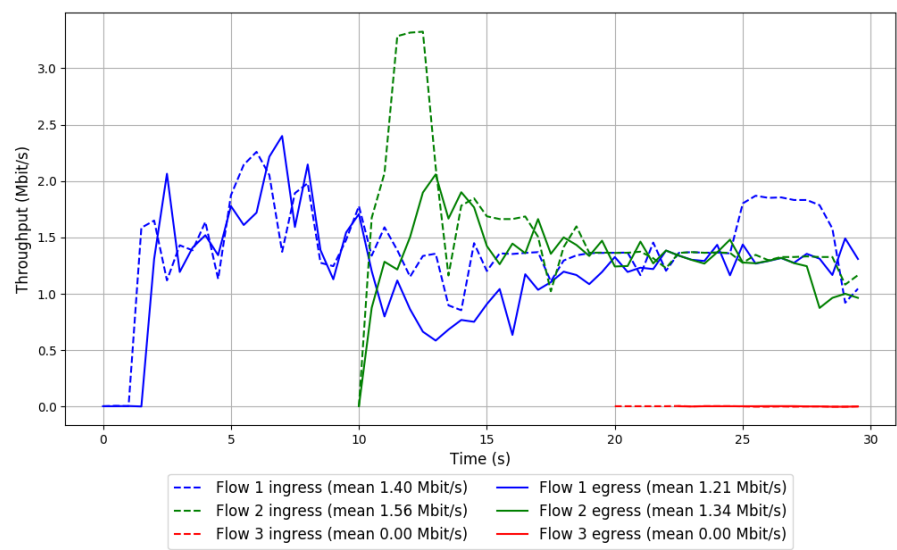
-- Flow 3:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 2926.046 ms

Loss rate: 11.51%

Run 3: Report of PCC-Vivace — Data Link



Run 1: Statistics of PCC-Expr

Start at: 2018-04-17 00:27:38

End at: 2018-04-17 00:28:08

Local clock offset: -5.425 ms

Remote clock offset: 4.978 ms

Run 1: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 2: Statistics of PCC-Expr

Start at: 2018-04-17 00:49:10

End at: 2018-04-17 00:49:40

Local clock offset: -4.854 ms

Remote clock offset: 4.881 ms

Run 2: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 3: Statistics of PCC-Expr

Start at: 2018-04-17 01:10:40

End at: 2018-04-17 01:11:10

Local clock offset: -4.671 ms

Remote clock offset: 5.753 ms

Run 3: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing