

Pantheon Report

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

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

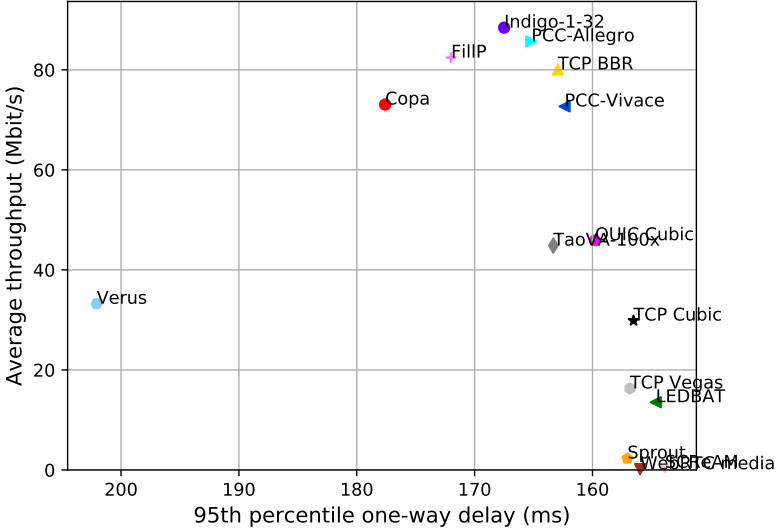
NTP offsets were measured against `ntp.nict.jp` and have been applied to correct the timestamps in logs.

Git summary:

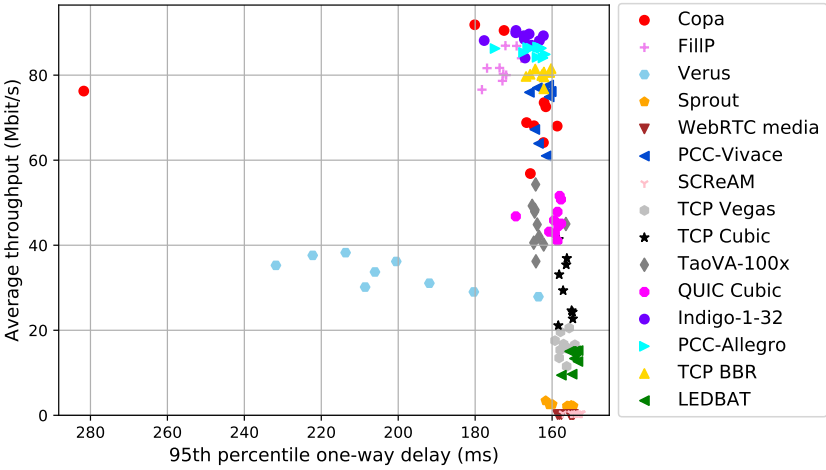
```
branch: master @ 114e807ac1bad7b85168ceb1f8a969063ee6c12c
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ 11f8c46a2bf1dc797253db7e8ca04076272b2a44
third_party/genericCC @ d223989828276fa83a807da6e0341dc0c7b89aec
third_party/indigo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

third_party/webrtc @ f271183af822eee5d0031620f4bebf38aedc5581

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



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

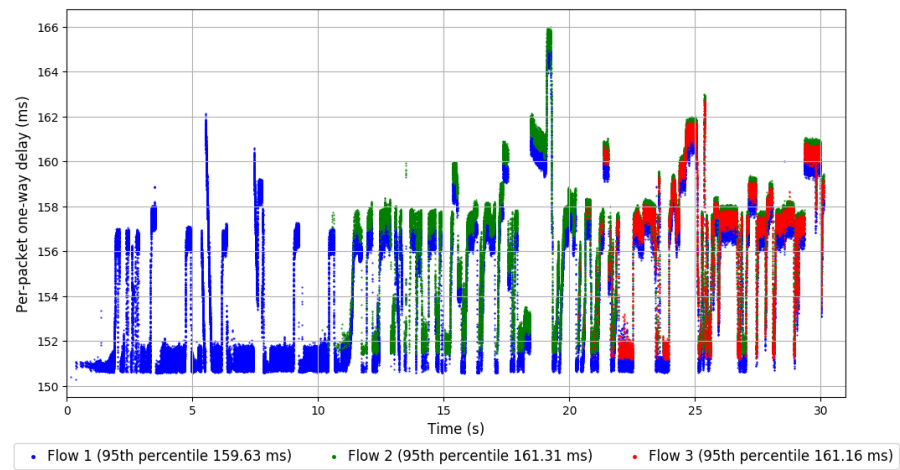
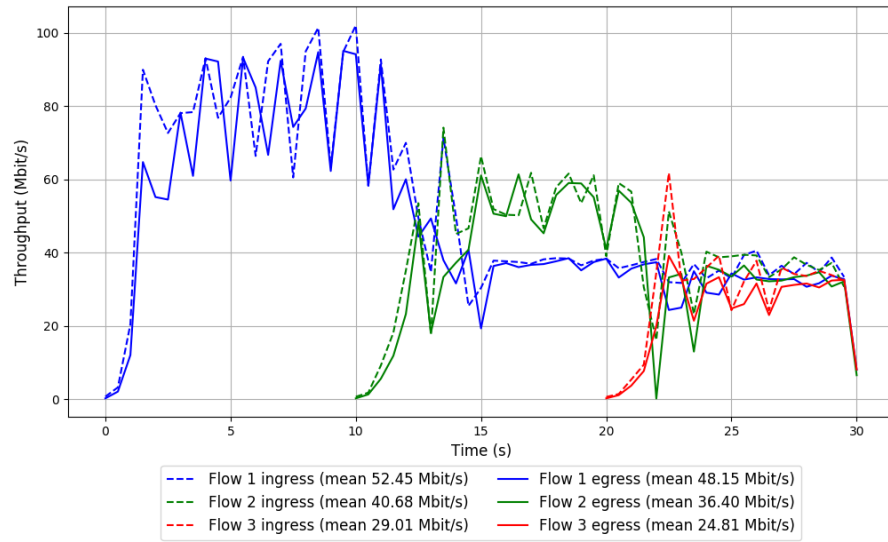


Run 1: Statistics of TCP BBR

Start at: 2018-04-24 20:51:53
End at: 2018-04-24 20:52:23
Local clock offset: 4.046 ms
Remote clock offset: -0.484 ms

Below is generated by plot.py at 2018-04-25 01:01:31
Datalink statistics
-- Total of 3 flows:
Average throughput: 80.63 Mbit/s
95th percentile per-packet one-way delay: 160.610 ms
Loss rate: 9.55%
-- Flow 1:
Average throughput: 48.15 Mbit/s
95th percentile per-packet one-way delay: 159.633 ms
Loss rate: 8.17%
-- Flow 2:
Average throughput: 36.40 Mbit/s
95th percentile per-packet one-way delay: 161.315 ms
Loss rate: 10.48%
-- Flow 3:
Average throughput: 24.81 Mbit/s
95th percentile per-packet one-way delay: 161.158 ms
Loss rate: 14.48%

Run 1: Report of TCP BBR — Data Link

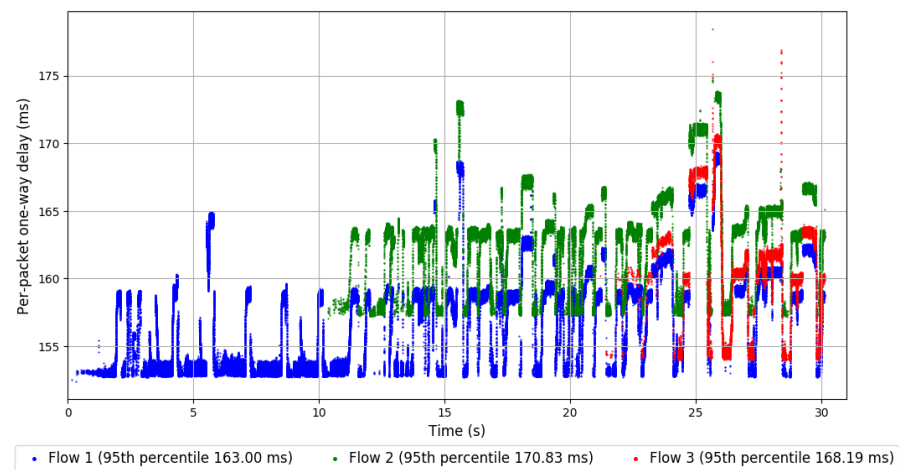
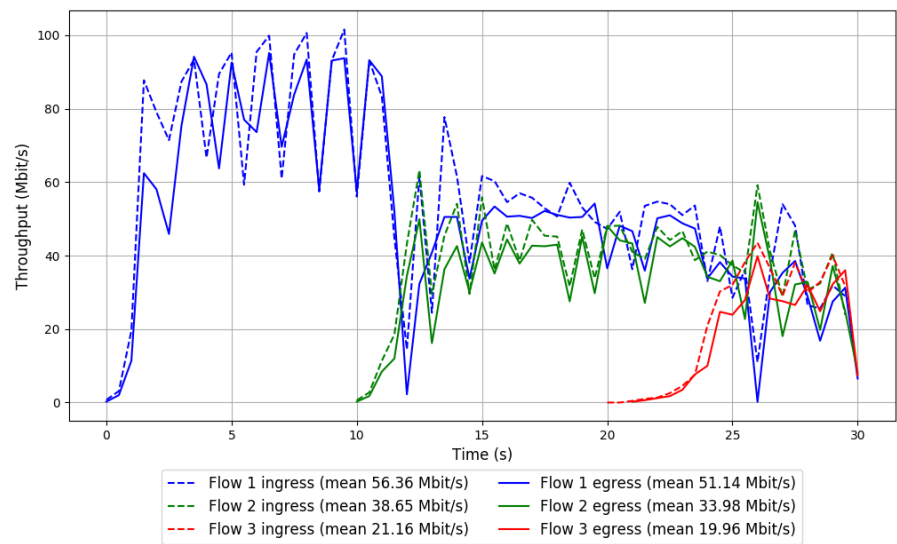


Run 2: Statistics of TCP BBR

Start at: 2018-04-24 21:15:05
End at: 2018-04-24 21:15:35
Local clock offset: 2.523 ms
Remote clock offset: -0.544 ms

Below is generated by plot.py at 2018-04-25 01:01:31
Datalink statistics
-- Total of 3 flows:
Average throughput: 79.70 Mbit/s
95th percentile per-packet one-way delay: 166.772 ms
Loss rate: 10.55%
-- Flow 1:
Average throughput: 51.14 Mbit/s
95th percentile per-packet one-way delay: 162.995 ms
Loss rate: 9.26%
-- Flow 2:
Average throughput: 33.98 Mbit/s
95th percentile per-packet one-way delay: 170.832 ms
Loss rate: 12.06%
-- Flow 3:
Average throughput: 19.96 Mbit/s
95th percentile per-packet one-way delay: 168.190 ms
Loss rate: 15.35%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-04-24 21:38:15

End at: 2018-04-24 21:38:45

Local clock offset: -0.462 ms

Remote clock offset: 2.491 ms

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 76.78 Mbit/s

95th percentile per-packet one-way delay: 162.156 ms

Loss rate: 11.76%

-- Flow 1:

Average throughput: 48.58 Mbit/s

95th percentile per-packet one-way delay: 161.331 ms

Loss rate: 10.04%

-- Flow 2:

Average throughput: 32.75 Mbit/s

95th percentile per-packet one-way delay: 162.280 ms

Loss rate: 12.69%

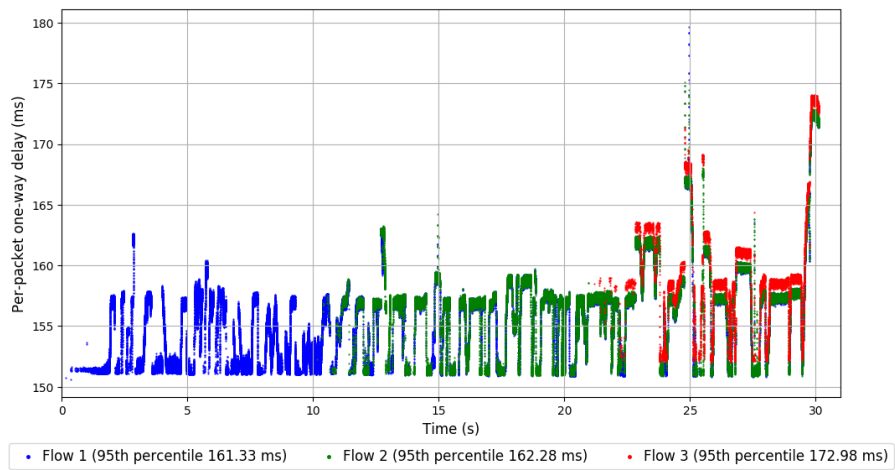
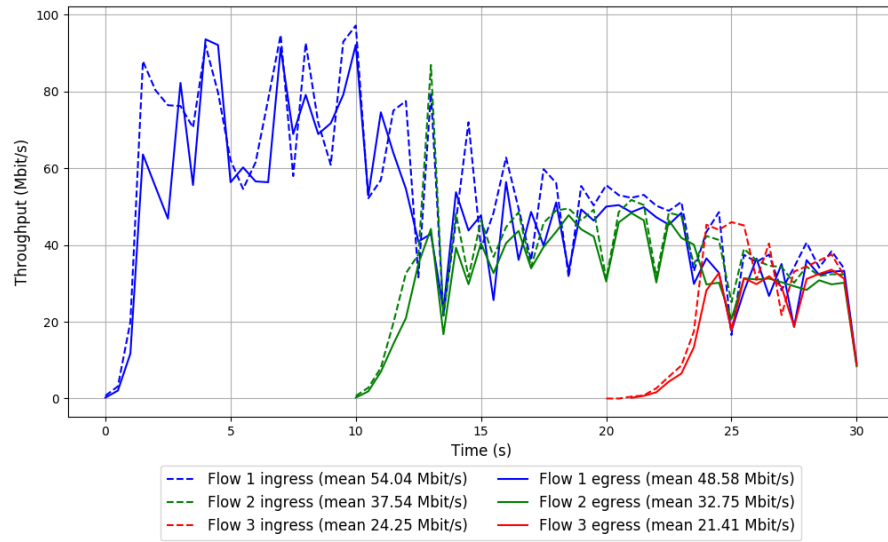
-- Flow 3:

Average throughput: 21.41 Mbit/s

95th percentile per-packet one-way delay: 172.981 ms

Loss rate: 20.46%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-04-24 22:01:16

End at: 2018-04-24 22:01:46

Local clock offset: -5.328 ms

Remote clock offset: 4.405 ms

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 79.59 Mbit/s

95th percentile per-packet one-way delay: 162.124 ms

Loss rate: 9.69%

-- Flow 1:

Average throughput: 49.89 Mbit/s

95th percentile per-packet one-way delay: 160.212 ms

Loss rate: 8.41%

-- Flow 2:

Average throughput: 33.34 Mbit/s

95th percentile per-packet one-way delay: 162.990 ms

Loss rate: 11.75%

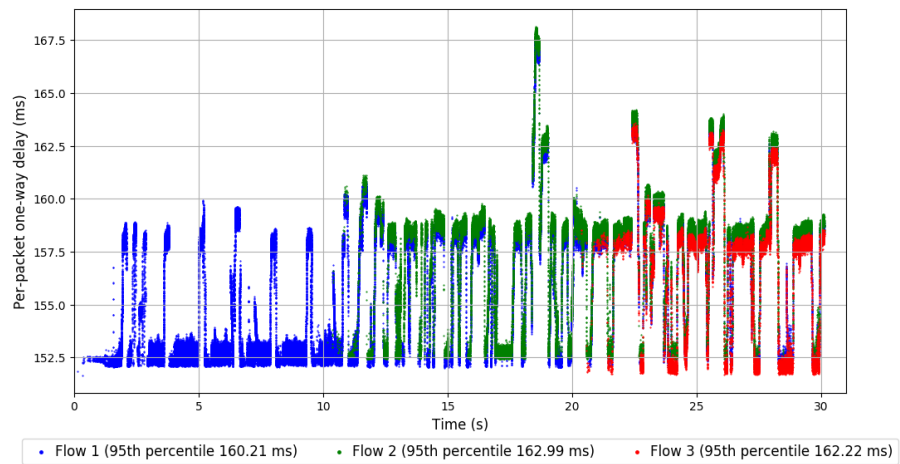
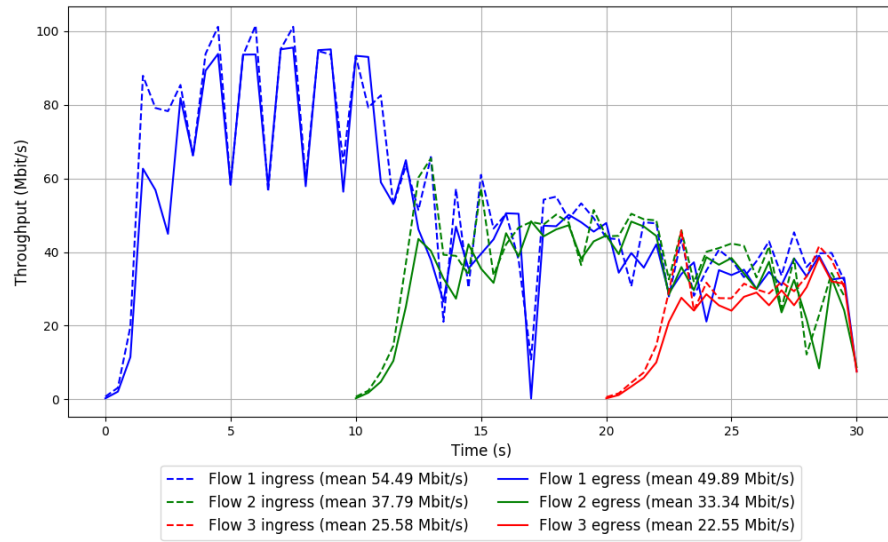
-- Flow 3:

Average throughput: 22.55 Mbit/s

95th percentile per-packet one-way delay: 162.218 ms

Loss rate: 11.81%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

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

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

Local clock offset: 3.398 ms

Remote clock offset: 5.276 ms

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 80.18 Mbit/s

95th percentile per-packet one-way delay: 162.593 ms

Loss rate: 7.38%

-- Flow 1:

Average throughput: 51.75 Mbit/s

95th percentile per-packet one-way delay: 162.605 ms

Loss rate: 7.16%

-- Flow 2:

Average throughput: 34.50 Mbit/s

95th percentile per-packet one-way delay: 161.072 ms

Loss rate: 7.74%

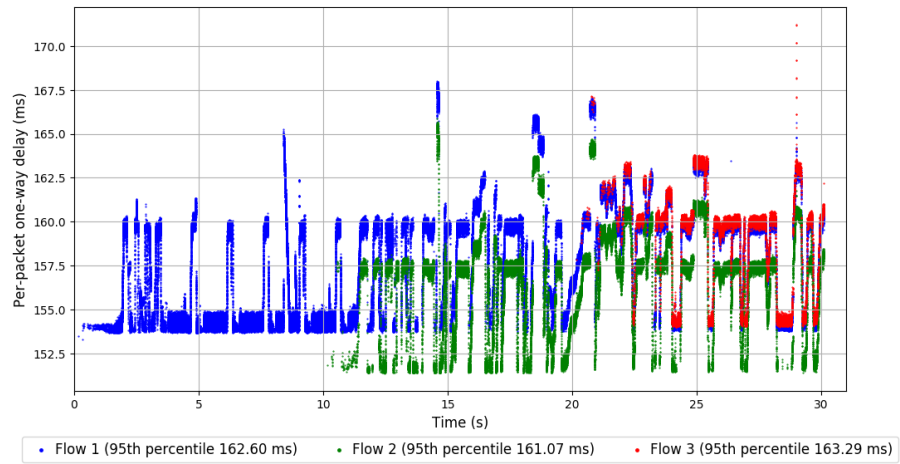
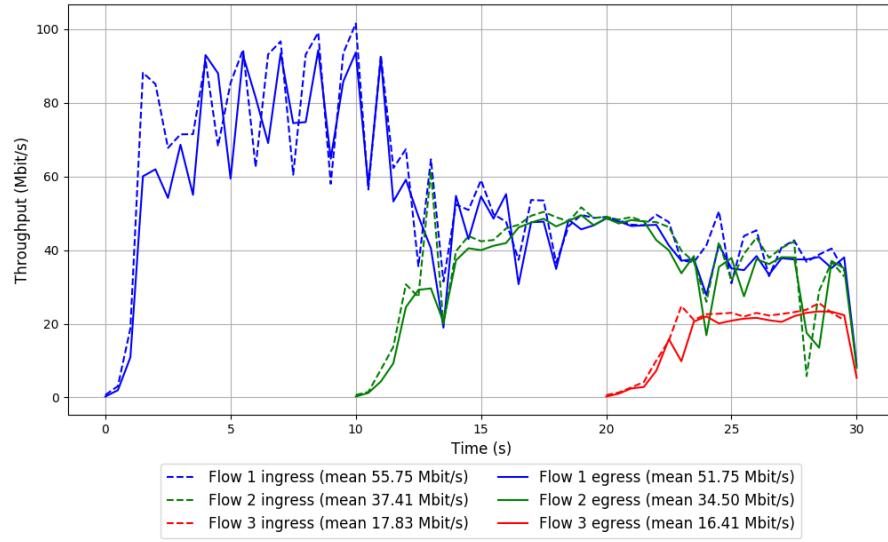
-- Flow 3:

Average throughput: 16.41 Mbit/s

95th percentile per-packet one-way delay: 163.286 ms

Loss rate: 7.91%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-04-24 22:47:03

End at: 2018-04-24 22:47:33

Local clock offset: 2.608 ms

Remote clock offset: -0.41 ms

Below is generated by plot.py at 2018-04-25 01:01:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 81.57 Mbit/s

95th percentile per-packet one-way delay: 160.259 ms

Loss rate: 9.65%

-- Flow 1:

Average throughput: 53.19 Mbit/s

95th percentile per-packet one-way delay: 160.149 ms

Loss rate: 9.16%

-- Flow 2:

Average throughput: 30.40 Mbit/s

95th percentile per-packet one-way delay: 160.129 ms

Loss rate: 8.54%

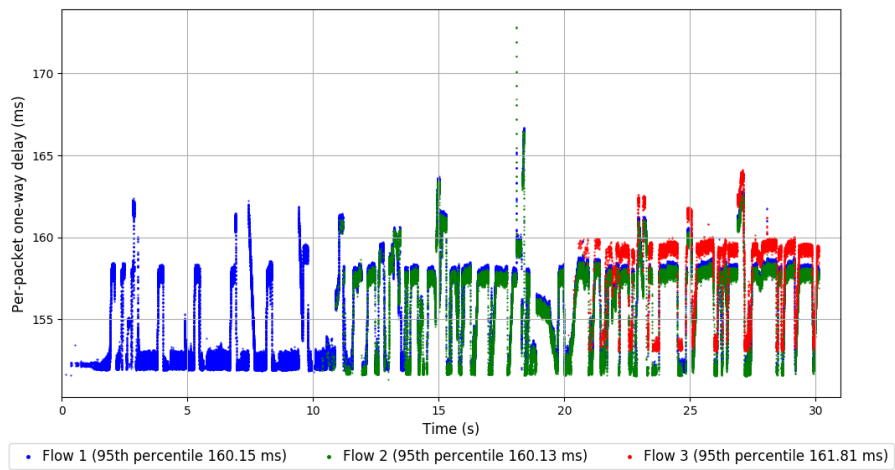
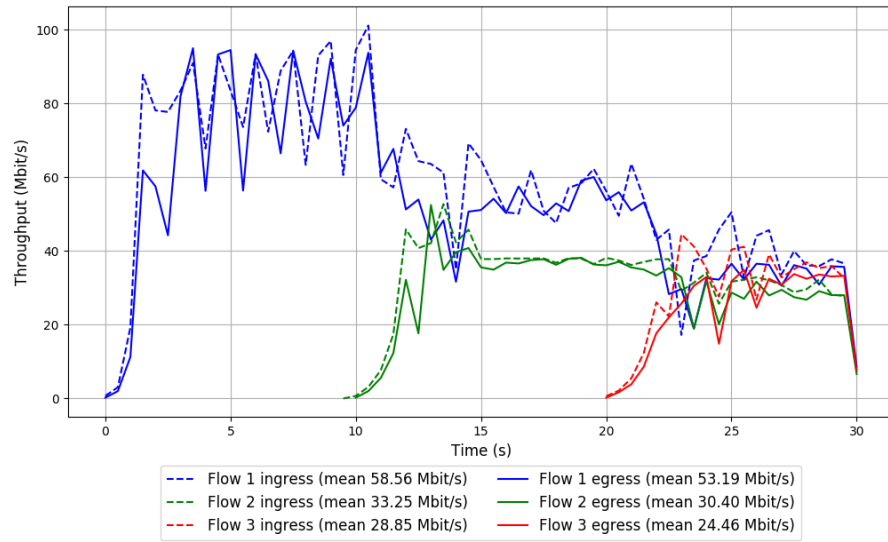
-- Flow 3:

Average throughput: 24.46 Mbit/s

95th percentile per-packet one-way delay: 161.814 ms

Loss rate: 15.21%

Run 6: Report of TCP BBR — Data Link

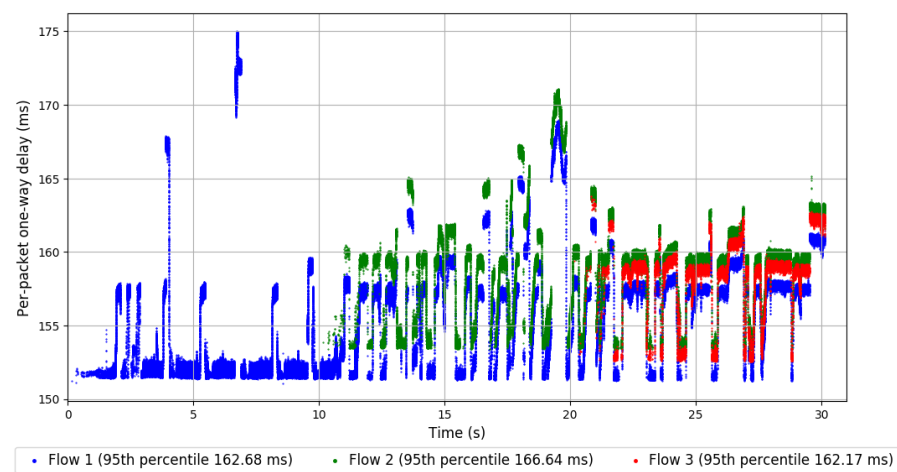
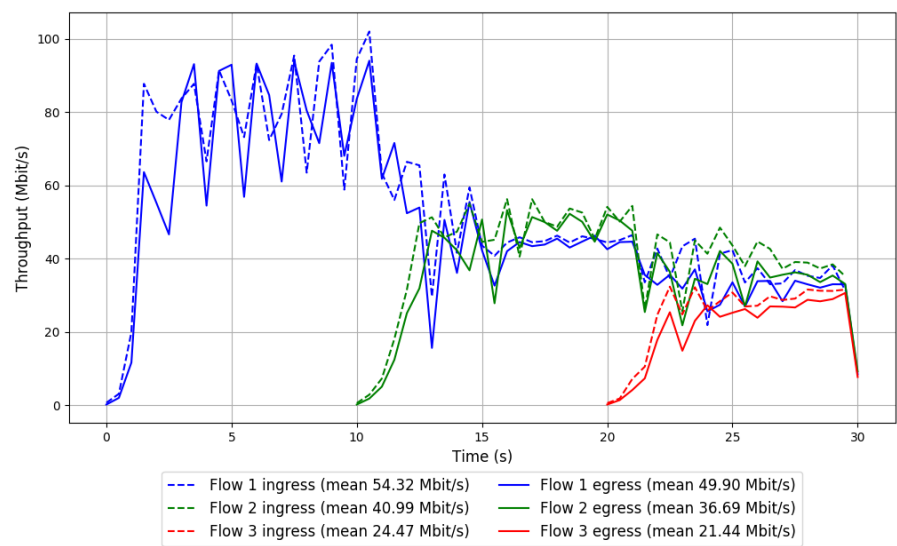


Run 7: Statistics of TCP BBR

Start at: 2018-04-24 23:10:05
End at: 2018-04-24 23:10:35
Local clock offset: -2.731 ms
Remote clock offset: -4.691 ms

Below is generated by plot.py at 2018-04-25 01:01:33
Datalink statistics
-- Total of 3 flows:
Average throughput: 81.45 Mbit/s
95th percentile per-packet one-way delay: 164.373 ms
Loss rate: 9.22%
-- Flow 1:
Average throughput: 49.90 Mbit/s
95th percentile per-packet one-way delay: 162.683 ms
Loss rate: 8.12%
-- Flow 2:
Average throughput: 36.69 Mbit/s
95th percentile per-packet one-way delay: 166.644 ms
Loss rate: 10.46%
-- Flow 3:
Average throughput: 21.44 Mbit/s
95th percentile per-packet one-way delay: 162.168 ms
Loss rate: 12.38%

Run 7: Report of TCP BBR — Data Link

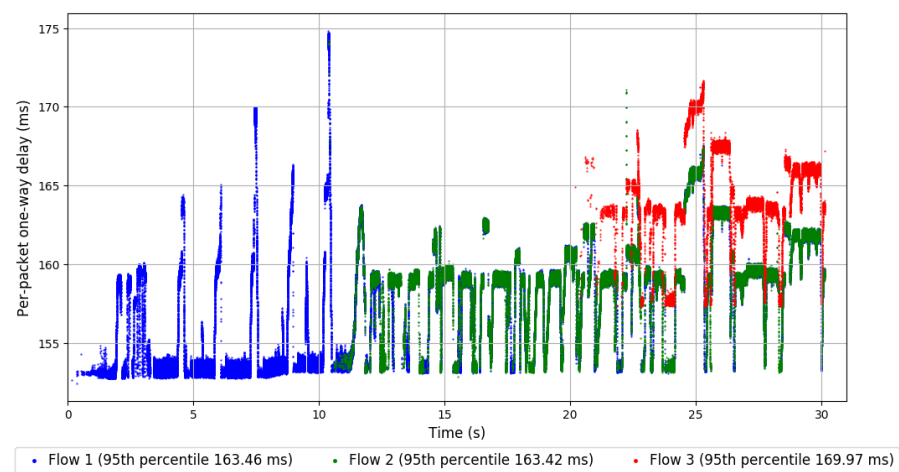
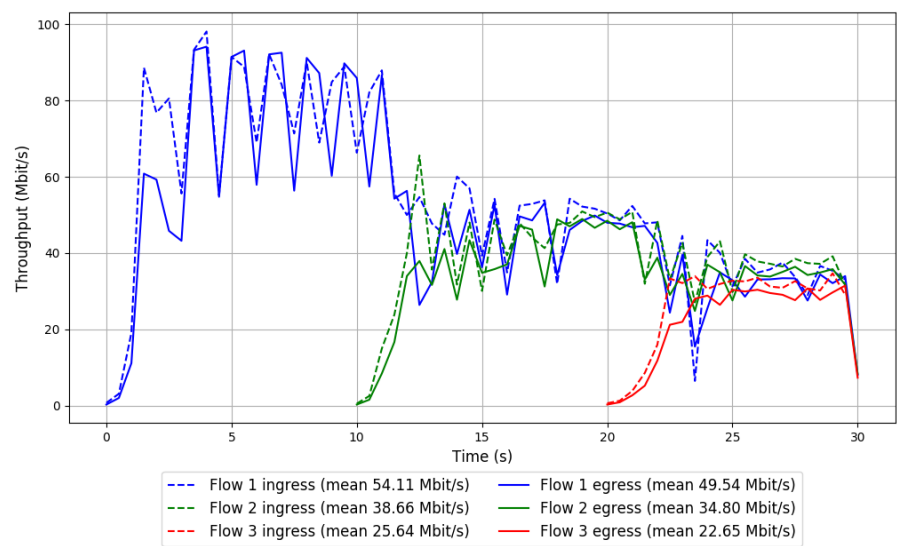


Run 8: Statistics of TCP BBR

Start at: 2018-04-24 23:32:54
End at: 2018-04-24 23:33:24
Local clock offset: -0.255 ms
Remote clock offset: -1.412 ms

Below is generated by plot.py at 2018-04-25 01:01:33
Datalink statistics
-- Total of 3 flows:
Average throughput: 80.21 Mbit/s
95th percentile per-packet one-way delay: 165.721 ms
Loss rate: 9.19%
-- Flow 1:
Average throughput: 49.54 Mbit/s
95th percentile per-packet one-way delay: 163.457 ms
Loss rate: 8.43%
-- Flow 2:
Average throughput: 34.80 Mbit/s
95th percentile per-packet one-way delay: 163.419 ms
Loss rate: 9.97%
-- Flow 3:
Average throughput: 22.65 Mbit/s
95th percentile per-packet one-way delay: 169.967 ms
Loss rate: 11.65%

Run 8: Report of TCP BBR — Data Link

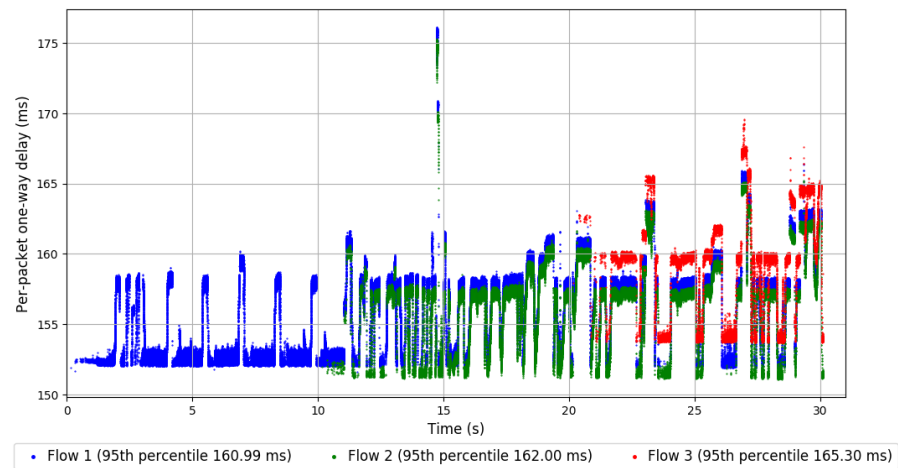
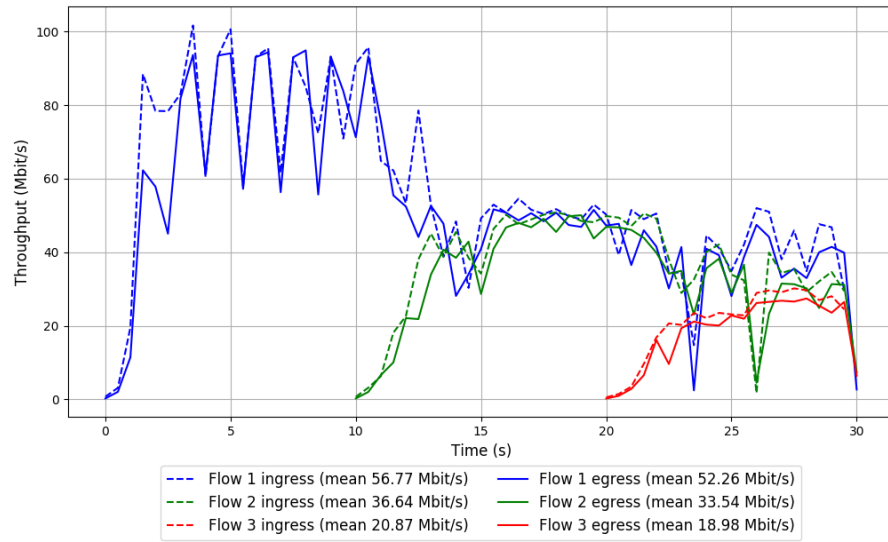


Run 9: Statistics of TCP BBR

Start at: 2018-04-24 23:56:15
End at: 2018-04-24 23:56:45
Local clock offset: -1.919 ms
Remote clock offset: -1.721 ms

Below is generated by plot.py at 2018-04-25 01:02:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 80.75 Mbit/s
95th percentile per-packet one-way delay: 162.134 ms
Loss rate: 8.15%
-- Flow 1:
Average throughput: 52.26 Mbit/s
95th percentile per-packet one-way delay: 160.985 ms
Loss rate: 7.90%
-- Flow 2:
Average throughput: 33.54 Mbit/s
95th percentile per-packet one-way delay: 162.000 ms
Loss rate: 8.47%
-- Flow 3:
Average throughput: 18.98 Mbit/s
95th percentile per-packet one-way delay: 165.296 ms
Loss rate: 9.03%

Run 9: Report of TCP BBR — Data Link

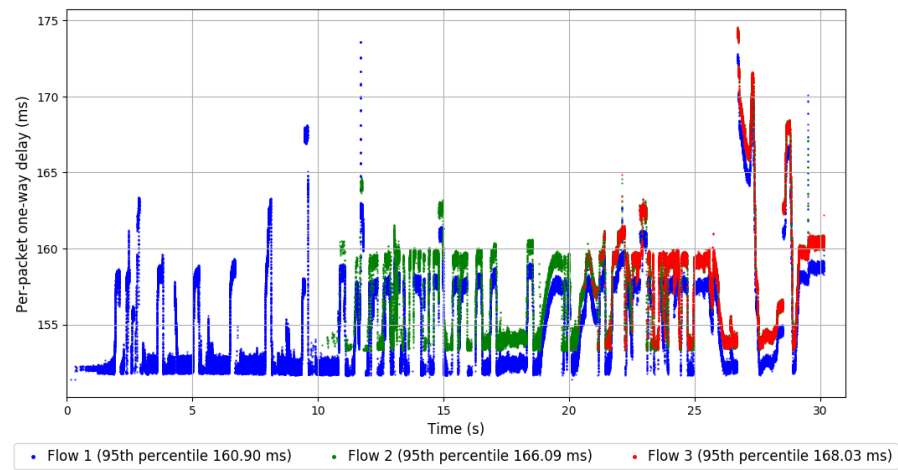
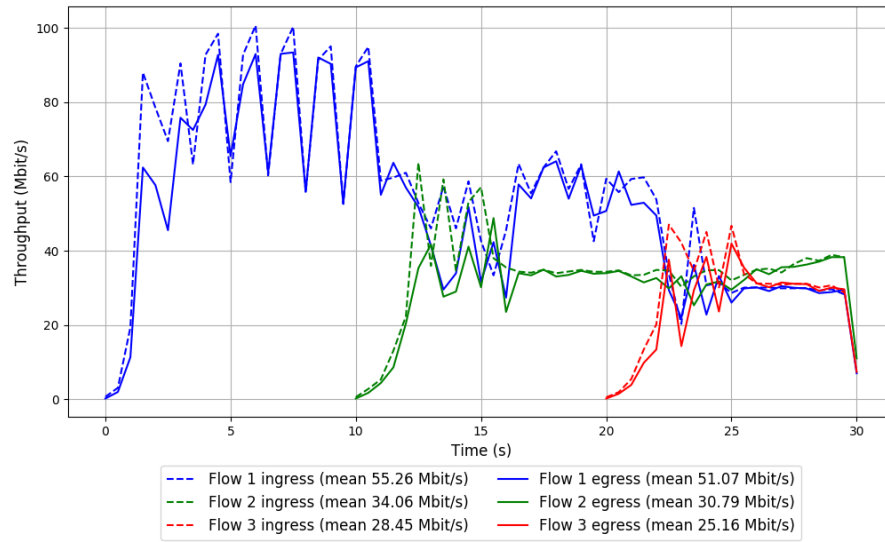


Run 10: Statistics of TCP BBR

Start at: 2018-04-25 00:18:59
End at: 2018-04-25 00:19:29
Local clock offset: -4.813 ms
Remote clock offset: -1.709 ms

Below is generated by plot.py at 2018-04-25 01:02:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 79.92 Mbit/s
95th percentile per-packet one-way delay: 162.672 ms
Loss rate: 8.51%
-- Flow 1:
Average throughput: 51.07 Mbit/s
95th percentile per-packet one-way delay: 160.902 ms
Loss rate: 7.57%
-- Flow 2:
Average throughput: 30.79 Mbit/s
95th percentile per-packet one-way delay: 166.086 ms
Loss rate: 9.58%
-- Flow 3:
Average throughput: 25.16 Mbit/s
95th percentile per-packet one-way delay: 168.034 ms
Loss rate: 11.49%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-04-24 21:02:43

End at: 2018-04-24 21:03:13

Local clock offset: 3.852 ms

Remote clock offset: -0.45 ms

Below is generated by plot.py at 2018-04-25 01:02:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 35.41 Mbit/s

95th percentile per-packet one-way delay: 156.327 ms

Loss rate: 0.48%

-- Flow 1:

Average throughput: 26.75 Mbit/s

95th percentile per-packet one-way delay: 156.032 ms

Loss rate: 0.20%

-- Flow 2:

Average throughput: 8.66 Mbit/s

95th percentile per-packet one-way delay: 157.324 ms

Loss rate: 0.88%

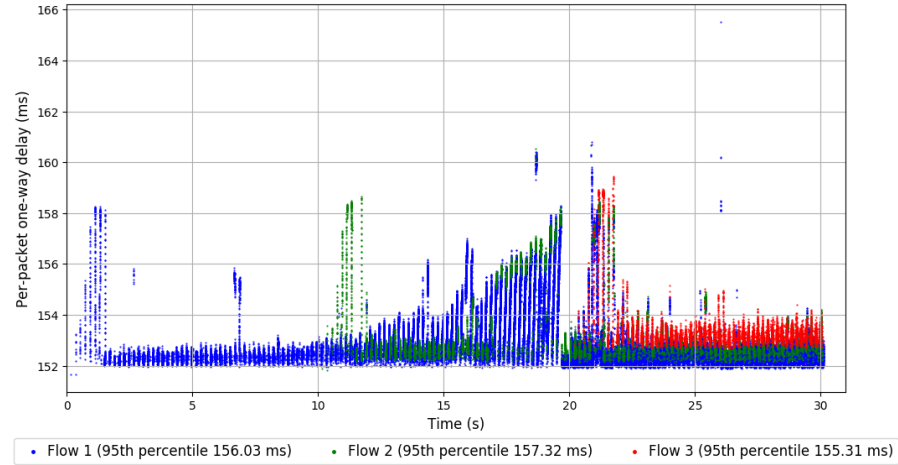
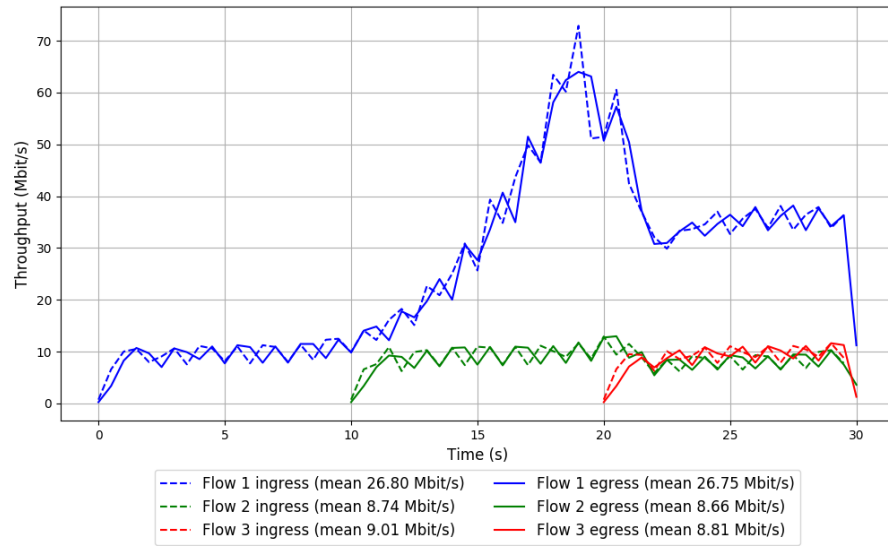
-- Flow 3:

Average throughput: 8.81 Mbit/s

95th percentile per-packet one-way delay: 155.315 ms

Loss rate: 2.20%

Run 1: Report of TCP Cubic — Data Link

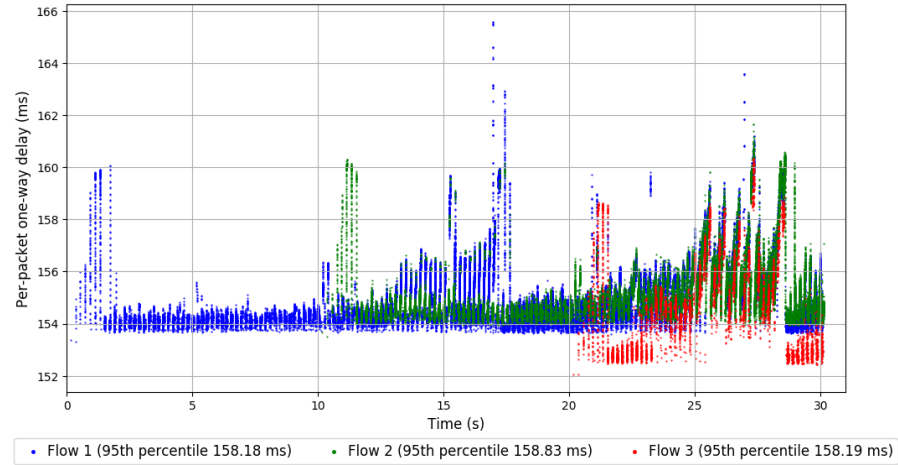
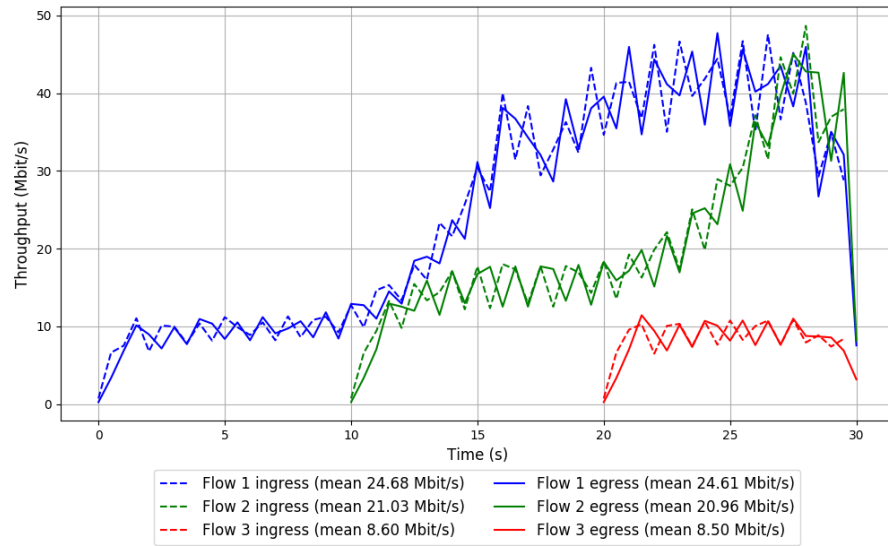


Run 2: Statistics of TCP Cubic

Start at: 2018-04-24 21:25:55
End at: 2018-04-24 21:26:25
Local clock offset: 2.322 ms
Remote clock offset: -0.609 ms

Below is generated by plot.py at 2018-04-25 01:02:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 41.38 Mbit/s
95th percentile per-packet one-way delay: 158.295 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 24.61 Mbit/s
95th percentile per-packet one-way delay: 158.178 ms
Loss rate: 0.27%
-- Flow 2:
Average throughput: 20.96 Mbit/s
95th percentile per-packet one-way delay: 158.832 ms
Loss rate: 0.29%
-- Flow 3:
Average throughput: 8.50 Mbit/s
95th percentile per-packet one-way delay: 158.191 ms
Loss rate: 1.21%

Run 2: Report of TCP Cubic — Data Link

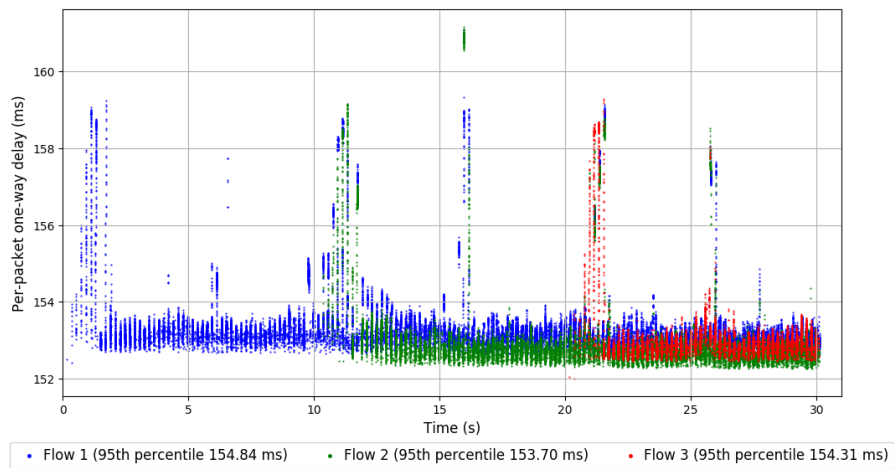
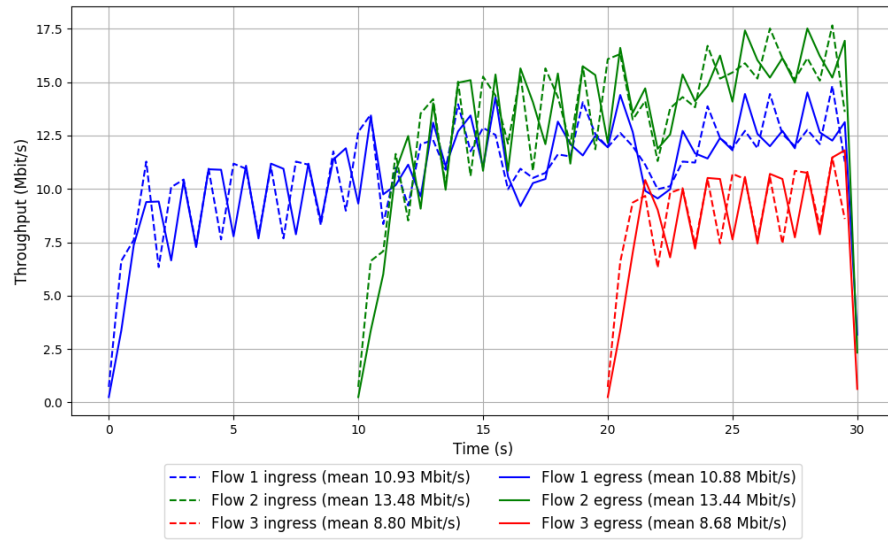


Run 3: Statistics of TCP Cubic

Start at: 2018-04-24 21:48:52
End at: 2018-04-24 21:49:22
Local clock offset: -3.758 ms
Remote clock offset: 3.644 ms

Below is generated by plot.py at 2018-04-25 01:02:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 22.70 Mbit/s
95th percentile per-packet one-way delay: 154.606 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 10.88 Mbit/s
95th percentile per-packet one-way delay: 154.845 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 13.44 Mbit/s
95th percentile per-packet one-way delay: 153.696 ms
Loss rate: 0.29%
-- Flow 3:
Average throughput: 8.68 Mbit/s
95th percentile per-packet one-way delay: 154.311 ms
Loss rate: 1.35%

Run 3: Report of TCP Cubic — Data Link

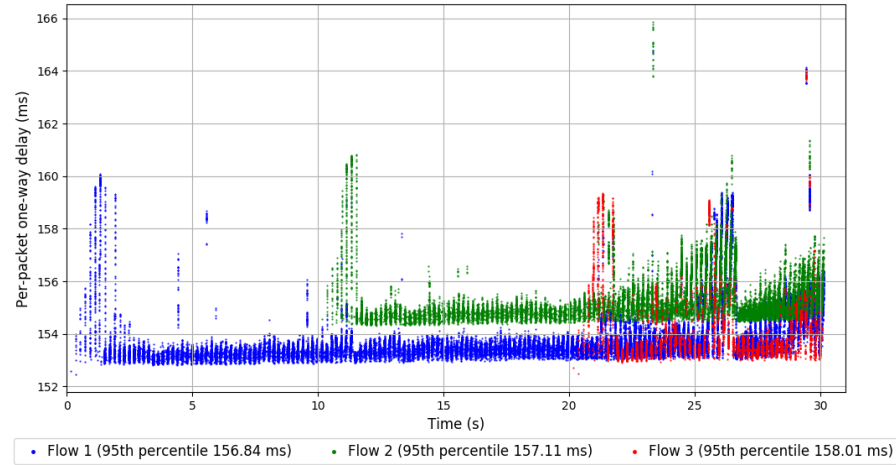
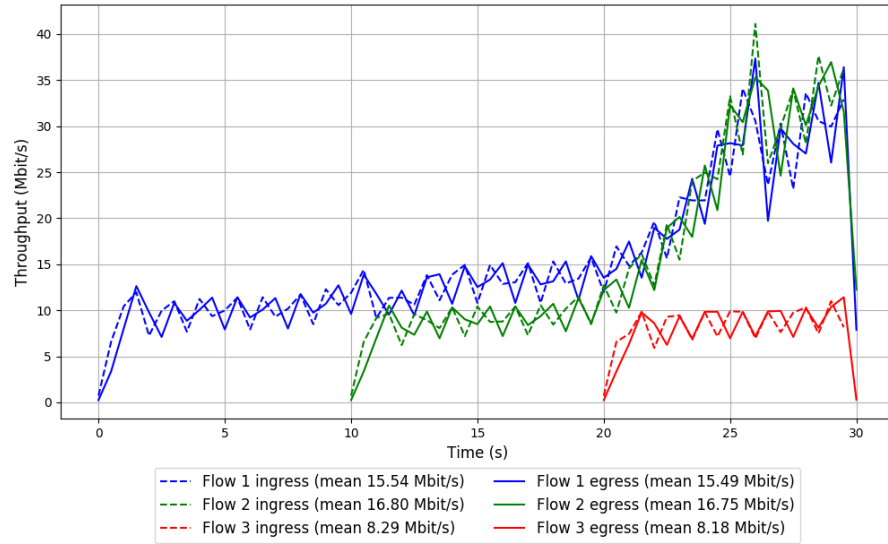


Run 4: Statistics of TCP Cubic

Start at: 2018-04-24 22:11:52
End at: 2018-04-24 22:12:23
Local clock offset: -2.413 ms
Remote clock offset: 4.865 ms

Below is generated by plot.py at 2018-04-25 01:02:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 29.34 Mbit/s
95th percentile per-packet one-way delay: 157.135 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 15.49 Mbit/s
95th percentile per-packet one-way delay: 156.835 ms
Loss rate: 0.28%
-- Flow 2:
Average throughput: 16.75 Mbit/s
95th percentile per-packet one-way delay: 157.112 ms
Loss rate: 0.32%
-- Flow 3:
Average throughput: 8.18 Mbit/s
95th percentile per-packet one-way delay: 158.010 ms
Loss rate: 1.26%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-04-24 22:34:41

End at: 2018-04-24 22:35:11

Local clock offset: 5.642 ms

Remote clock offset: 5.837 ms

Below is generated by plot.py at 2018-04-25 01:02:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 21.11 Mbit/s

95th percentile per-packet one-way delay: 158.386 ms

Loss rate: 0.87%

-- Flow 1:

Average throughput: 12.97 Mbit/s

95th percentile per-packet one-way delay: 158.617 ms

Loss rate: 0.32%

-- Flow 2:

Average throughput: 8.17 Mbit/s

95th percentile per-packet one-way delay: 157.767 ms

Loss rate: 1.58%

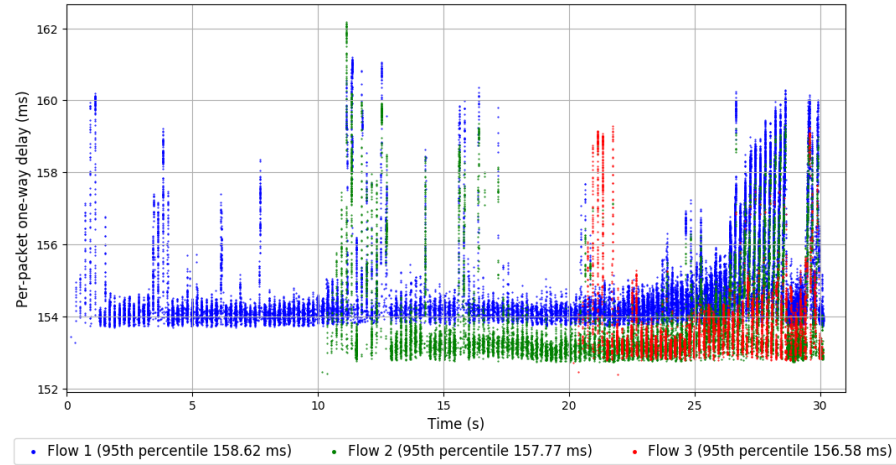
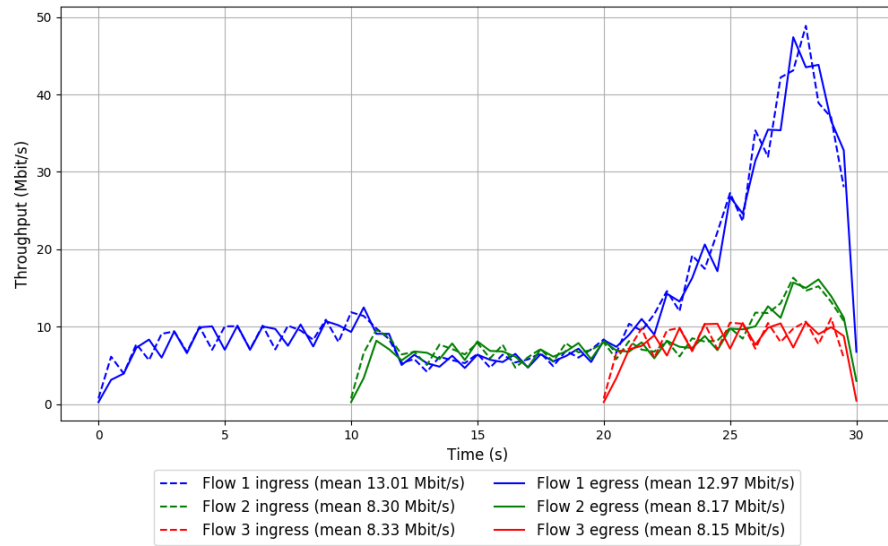
-- Flow 3:

Average throughput: 8.15 Mbit/s

95th percentile per-packet one-way delay: 156.584 ms

Loss rate: 2.07%

Run 5: Report of TCP Cubic — Data Link

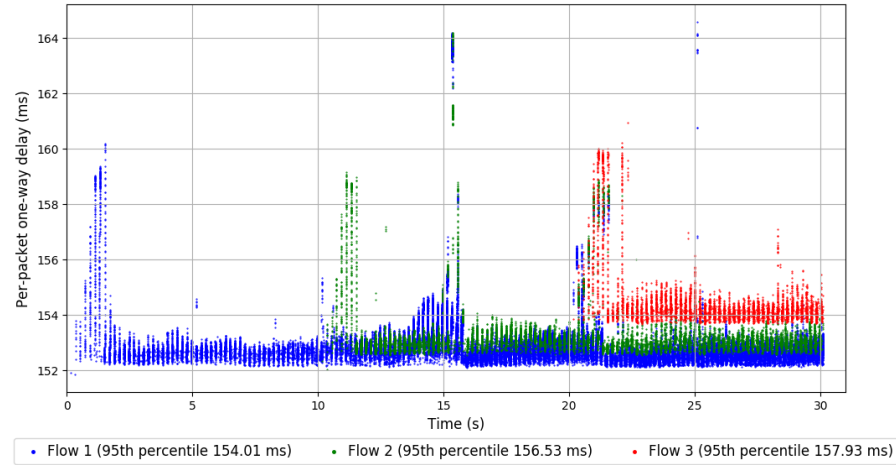
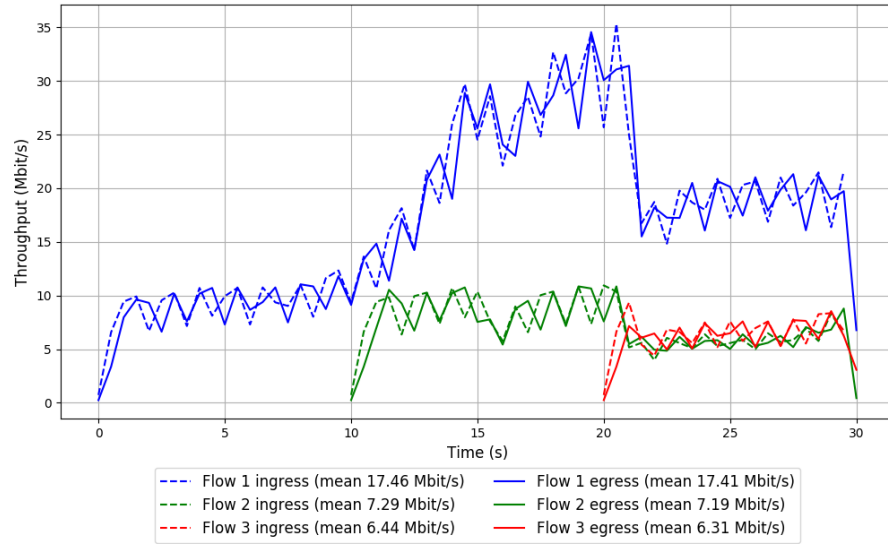


Run 6: Statistics of TCP Cubic

Start at: 2018-04-24 22:57:54
End at: 2018-04-24 22:58:24
Local clock offset: -1.437 ms
Remote clock offset: -2.892 ms

Below is generated by plot.py at 2018-04-25 01:02:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 24.29 Mbit/s
95th percentile per-packet one-way delay: 154.683 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 17.41 Mbit/s
95th percentile per-packet one-way delay: 154.008 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 7.19 Mbit/s
95th percentile per-packet one-way delay: 156.535 ms
Loss rate: 1.32%
-- Flow 3:
Average throughput: 6.31 Mbit/s
95th percentile per-packet one-way delay: 157.929 ms
Loss rate: 2.12%

Run 6: Report of TCP Cubic — Data Link

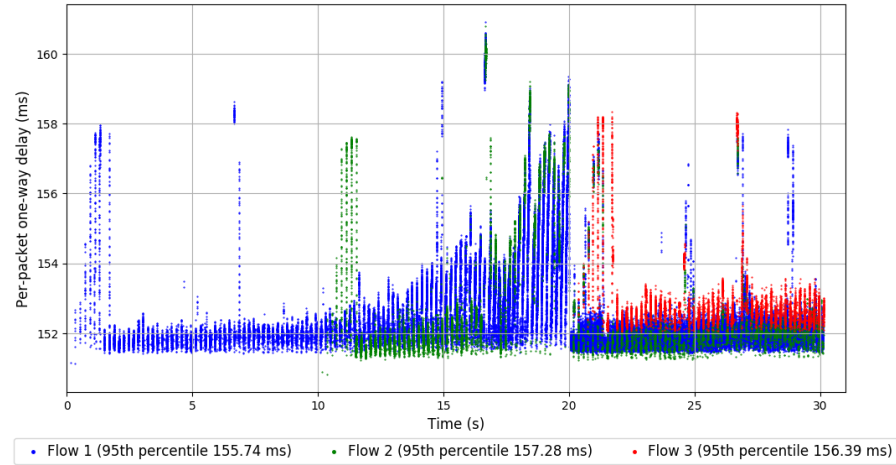
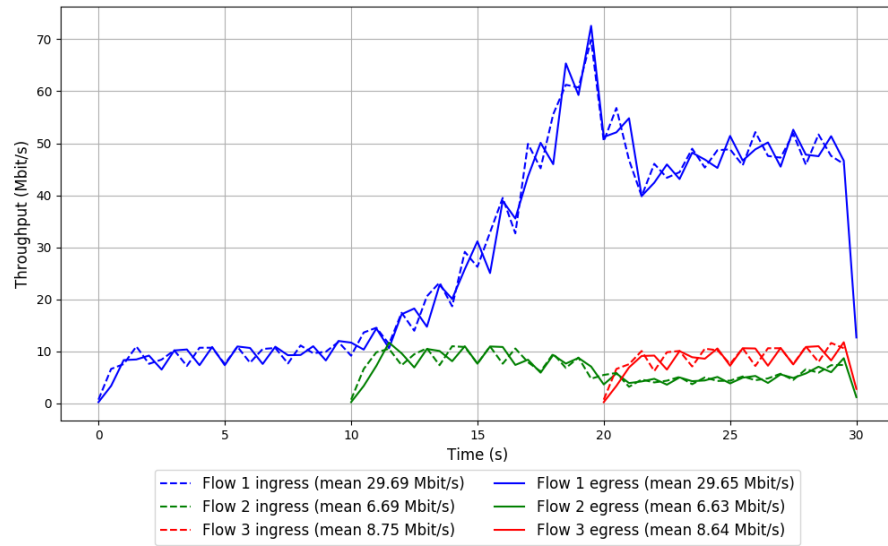


Run 7: Statistics of TCP Cubic

Start at: 2018-04-24 23:20:41
End at: 2018-04-24 23:21:11
Local clock offset: -1.936 ms
Remote clock offset: -2.024 ms

Below is generated by plot.py at 2018-04-25 01:02:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 36.91 Mbit/s
95th percentile per-packet one-way delay: 156.160 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 29.65 Mbit/s
95th percentile per-packet one-way delay: 155.739 ms
Loss rate: 0.15%
-- Flow 2:
Average throughput: 6.63 Mbit/s
95th percentile per-packet one-way delay: 157.279 ms
Loss rate: 0.94%
-- Flow 3:
Average throughput: 8.64 Mbit/s
95th percentile per-packet one-way delay: 156.391 ms
Loss rate: 1.35%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

/home/ubuntu/pantheon_data/2018-04-24T20-47-AWS-Korea-to-China-10-runs-3-flows/default_tcp_s

Run 8: Report of TCP Cubic — Data Link

Figure is missing

Figure is missing

Run 9: Statistics of TCP Cubic

Start at: 2018-04-25 00:06:51

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

Local clock offset: -3.938 ms

Remote clock offset: -1.7 ms

Below is generated by plot.py at 2018-04-25 01:02:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 24.62 Mbit/s

95th percentile per-packet one-way delay: 154.933 ms

Loss rate: 0.46%

-- Flow 1:

Average throughput: 14.66 Mbit/s

95th percentile per-packet one-way delay: 154.748 ms

Loss rate: 0.27%

-- Flow 2:

Average throughput: 10.72 Mbit/s

95th percentile per-packet one-way delay: 155.179 ms

Loss rate: 0.47%

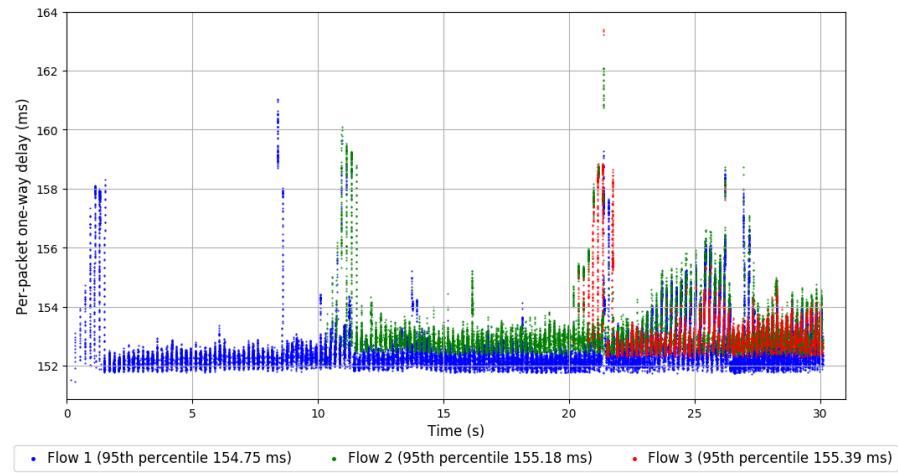
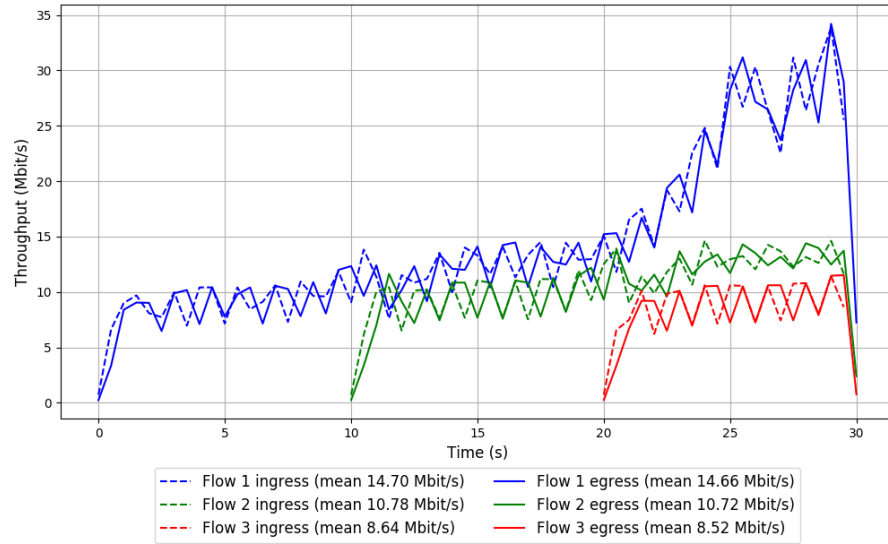
-- Flow 3:

Average throughput: 8.52 Mbit/s

95th percentile per-packet one-way delay: 155.391 ms

Loss rate: 1.41%

Run 9: Report of TCP Cubic — Data Link

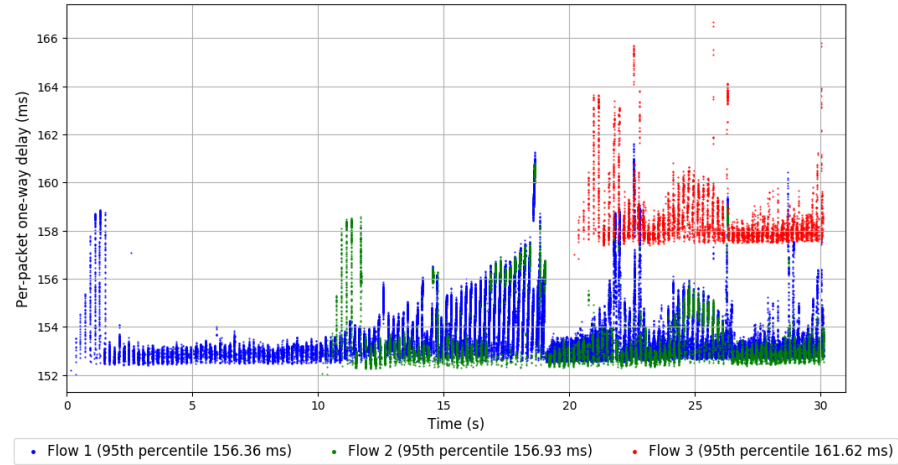
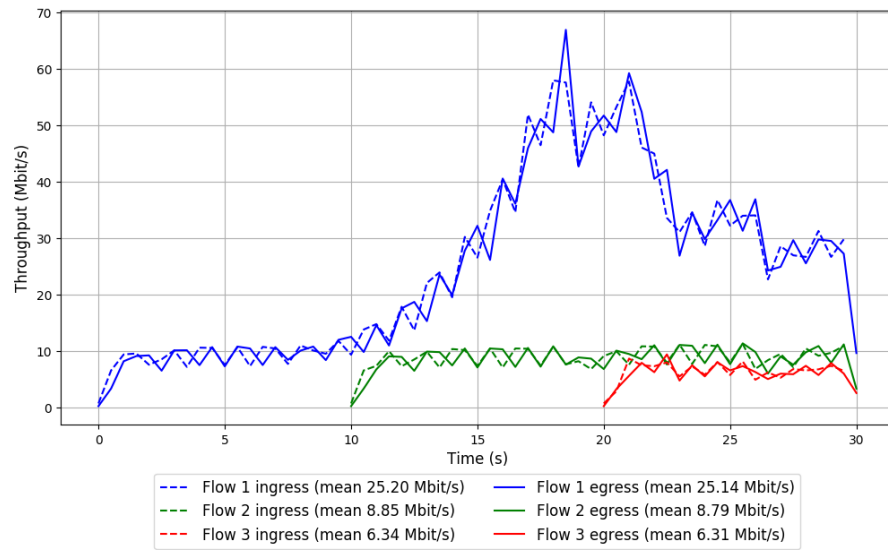


Run 10: Statistics of TCP Cubic

Start at: 2018-04-25 00:29:36
End at: 2018-04-25 00:30:06
Local clock offset: -1.447 ms
Remote clock offset: -17.215 ms

Below is generated by plot.py at 2018-04-25 01:02:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 33.09 Mbit/s
95th percentile per-packet one-way delay: 158.156 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 25.14 Mbit/s
95th percentile per-packet one-way delay: 156.364 ms
Loss rate: 0.21%
-- Flow 2:
Average throughput: 8.79 Mbit/s
95th percentile per-packet one-way delay: 156.925 ms
Loss rate: 0.72%
-- Flow 3:
Average throughput: 6.31 Mbit/s
95th percentile per-packet one-way delay: 161.623 ms
Loss rate: 0.68%

Run 10: Report of TCP Cubic — Data Link

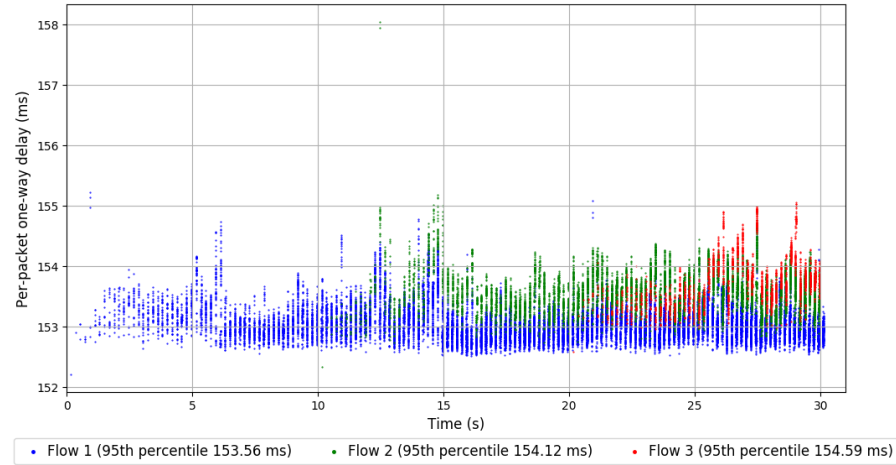
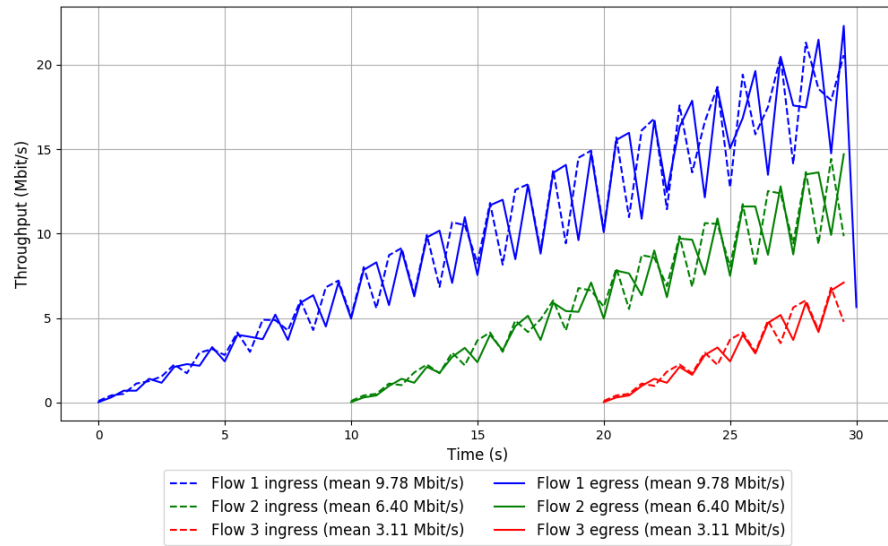



```
Run 1: Statistics of LEDBAT

Start at: 2018-04-24 20:57:30
End at: 2018-04-24 20:58:00
Local clock offset: 4.269 ms
Remote clock offset: -0.46 ms

# Below is generated by plot.py at 2018-04-25 01:02:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 15.03 Mbit/s
95th percentile per-packet one-way delay: 153.991 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 9.78 Mbit/s
95th percentile per-packet one-way delay: 153.563 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 6.40 Mbit/s
95th percentile per-packet one-way delay: 154.117 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 3.11 Mbit/s
95th percentile per-packet one-way delay: 154.585 ms
Loss rate: 0.00%
```

Run 1: Report of LEDBAT — Data Link

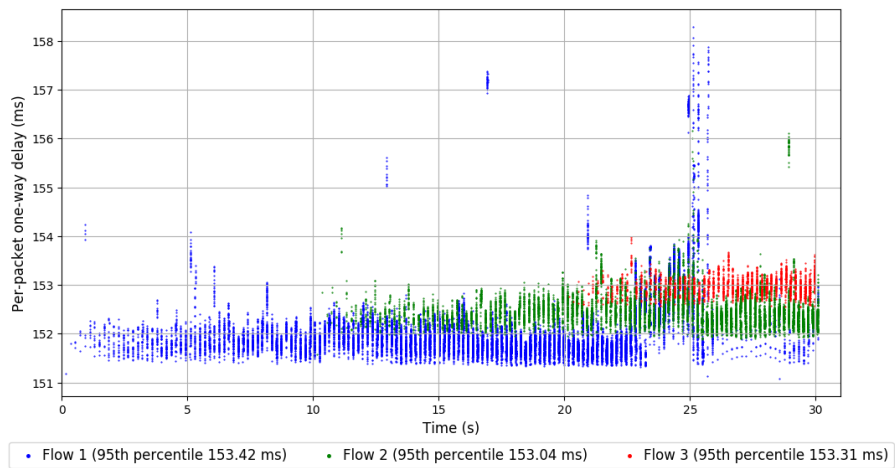
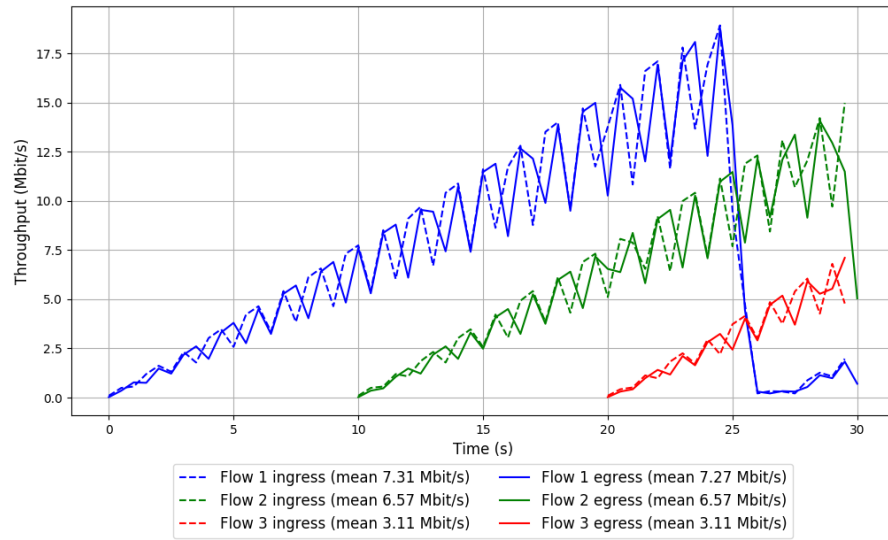


Run 2: Statistics of LEDBAT

Start at: 2018-04-24 21:20:41
End at: 2018-04-24 21:21:11
Local clock offset: 2.545 ms
Remote clock offset: -0.584 ms

Below is generated by plot.py at 2018-04-25 01:02:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 12.66 Mbit/s
95th percentile per-packet one-way delay: 153.281 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 7.27 Mbit/s
95th percentile per-packet one-way delay: 153.421 ms
Loss rate: 0.50%
-- Flow 2:
Average throughput: 6.57 Mbit/s
95th percentile per-packet one-way delay: 153.042 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 3.11 Mbit/s
95th percentile per-packet one-way delay: 153.315 ms
Loss rate: 0.00%

Run 2: Report of LEDBAT — Data Link

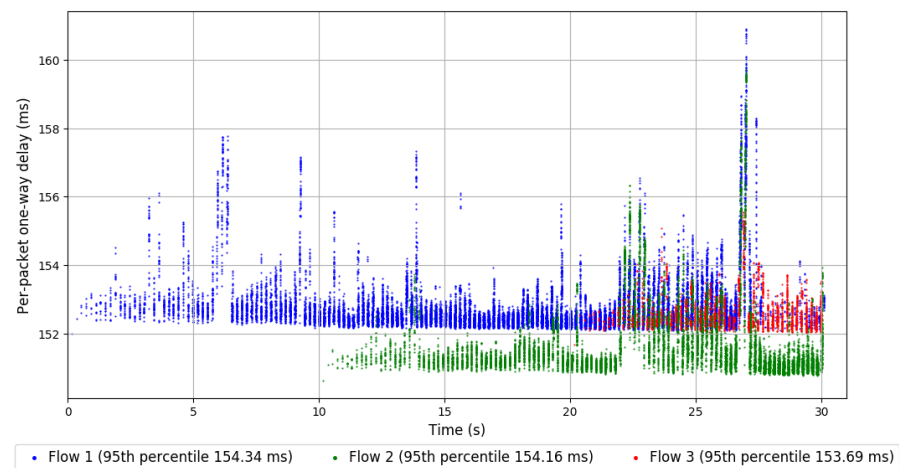
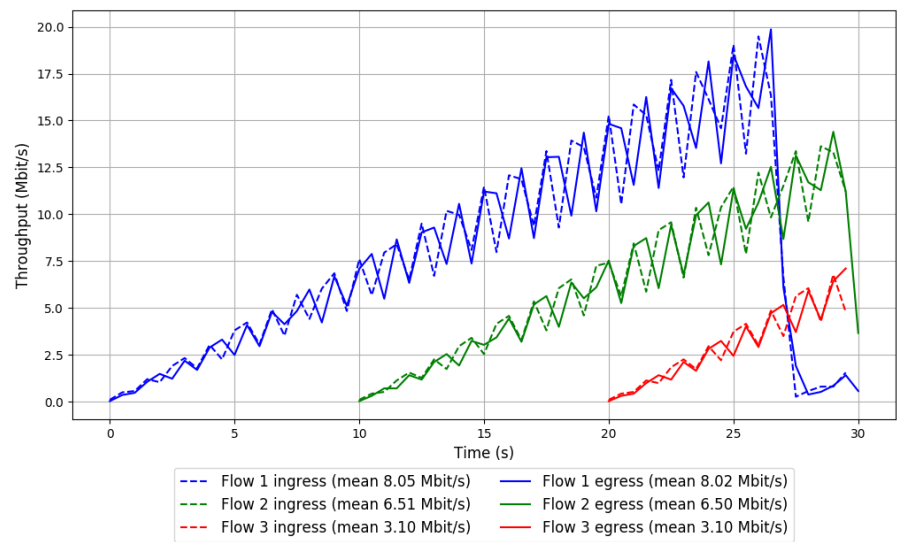


Run 3: Statistics of LEDBAT

Start at: 2018-04-24 21:43:38
End at: 2018-04-24 21:44:08
Local clock offset: -2.179 ms
Remote clock offset: 3.096 ms

Below is generated by plot.py at 2018-04-25 01:02:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 13.35 Mbit/s
95th percentile per-packet one-way delay: 154.207 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 8.02 Mbit/s
95th percentile per-packet one-way delay: 154.345 ms
Loss rate: 0.42%
-- Flow 2:
Average throughput: 6.50 Mbit/s
95th percentile per-packet one-way delay: 154.162 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 3.10 Mbit/s
95th percentile per-packet one-way delay: 153.695 ms
Loss rate: 0.00%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-04-24 22:06:39

End at: 2018-04-24 22:07:09

Local clock offset: -6.073 ms

Remote clock offset: 4.643 ms

Below is generated by plot.py at 2018-04-25 01:02:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.03 Mbit/s

95th percentile per-packet one-way delay: 155.025 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 9.71 Mbit/s

95th percentile per-packet one-way delay: 155.288 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 6.47 Mbit/s

95th percentile per-packet one-way delay: 154.280 ms

Loss rate: 0.00%

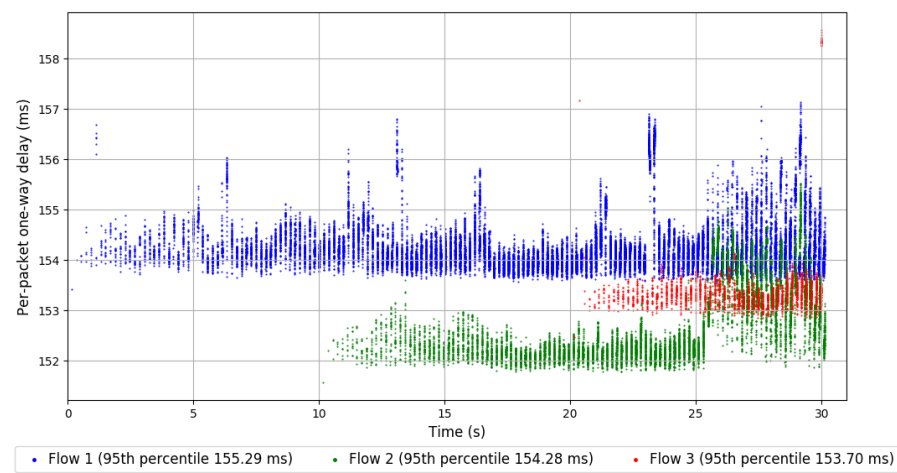
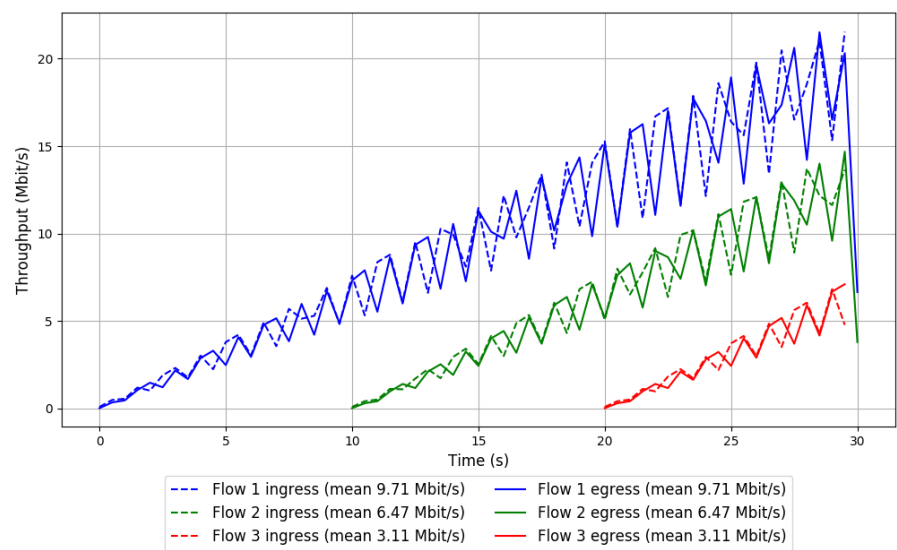
-- Flow 3:

Average throughput: 3.11 Mbit/s

95th percentile per-packet one-way delay: 153.701 ms

Loss rate: 0.00%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-04-24 22:29:28

End at: 2018-04-24 22:29:58

Local clock offset: 4.64 ms

Remote clock offset: 5.531 ms

Below is generated by plot.py at 2018-04-25 01:02:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.04 Mbit/s

95th percentile per-packet one-way delay: 155.458 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 9.69 Mbit/s

95th percentile per-packet one-way delay: 155.700 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 6.51 Mbit/s

95th percentile per-packet one-way delay: 153.623 ms

Loss rate: 0.00%

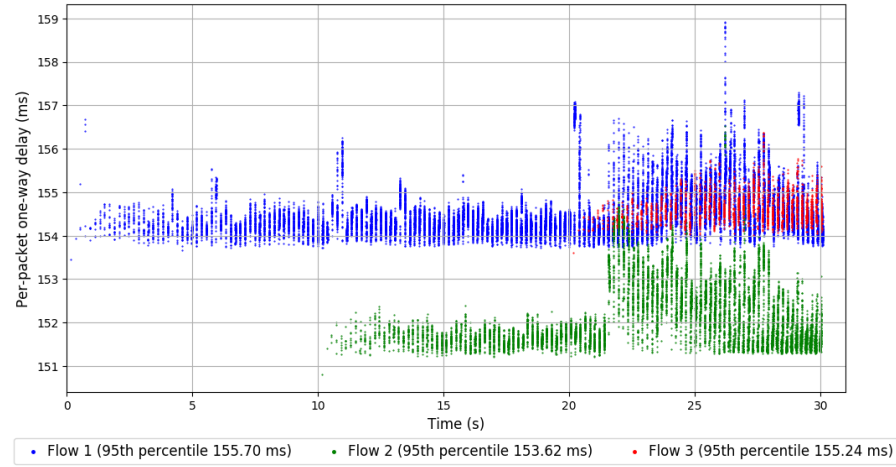
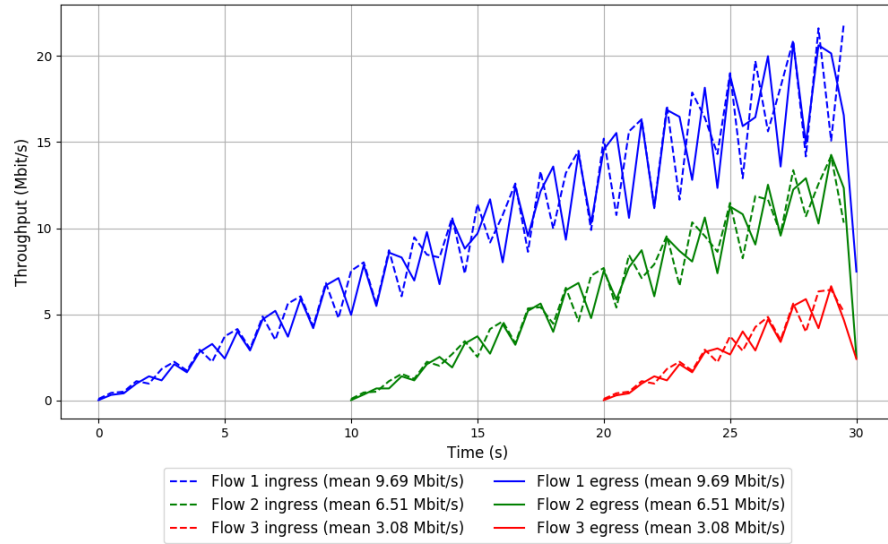
-- Flow 3:

Average throughput: 3.08 Mbit/s

95th percentile per-packet one-way delay: 155.236 ms

Loss rate: 0.00%

Run 5: Report of LEDBAT — Data Link

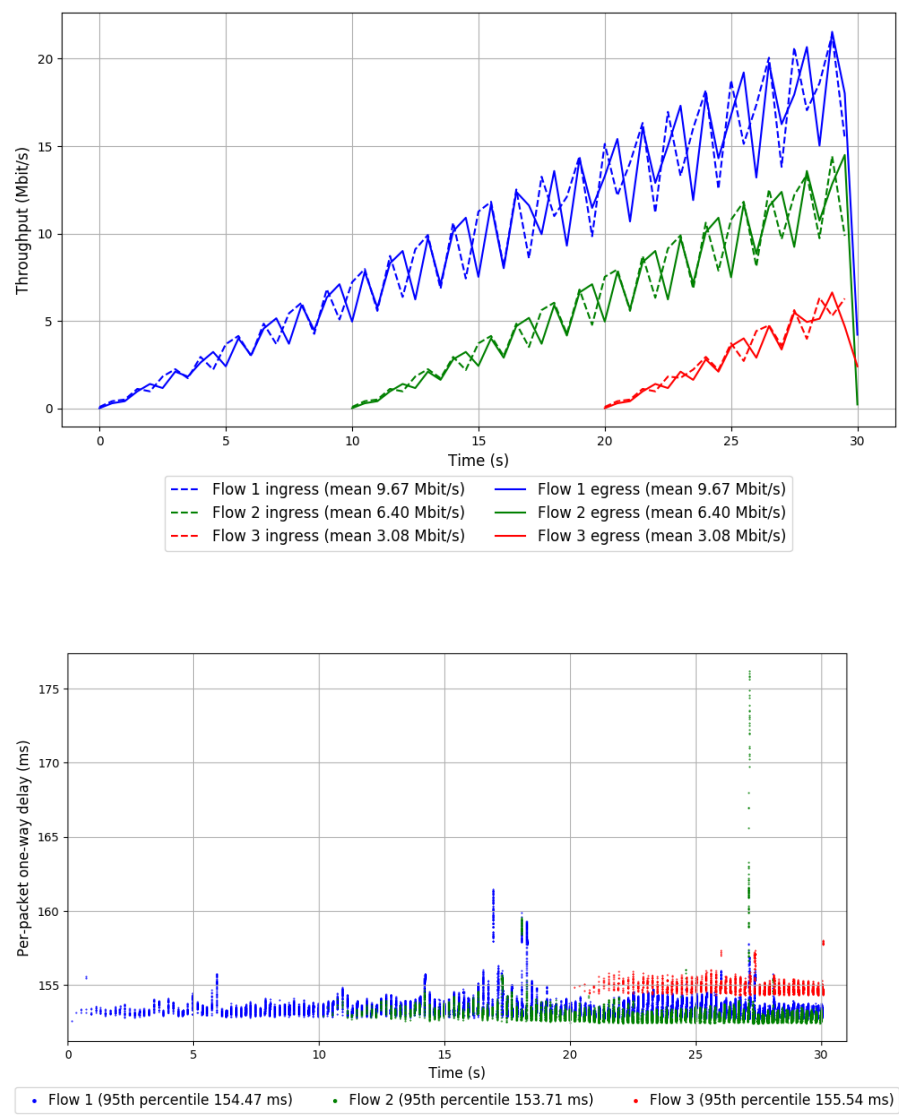


Run 6: Statistics of LEDBAT

Start at: 2018-04-24 22:52:40
End at: 2018-04-24 22:53:10
Local clock offset: -0.102 ms
Remote clock offset: -1.978 ms

Below is generated by plot.py at 2018-04-25 01:02:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 14.93 Mbit/s
95th percentile per-packet one-way delay: 154.949 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 9.67 Mbit/s
95th percentile per-packet one-way delay: 154.465 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 6.40 Mbit/s
95th percentile per-packet one-way delay: 153.709 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 3.08 Mbit/s
95th percentile per-packet one-way delay: 155.543 ms
Loss rate: 0.00%

Run 6: Report of LEDBAT — Data Link

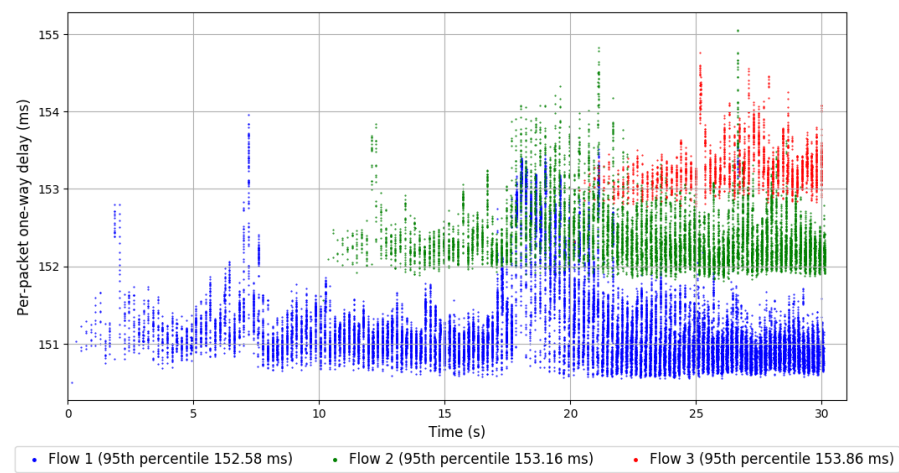
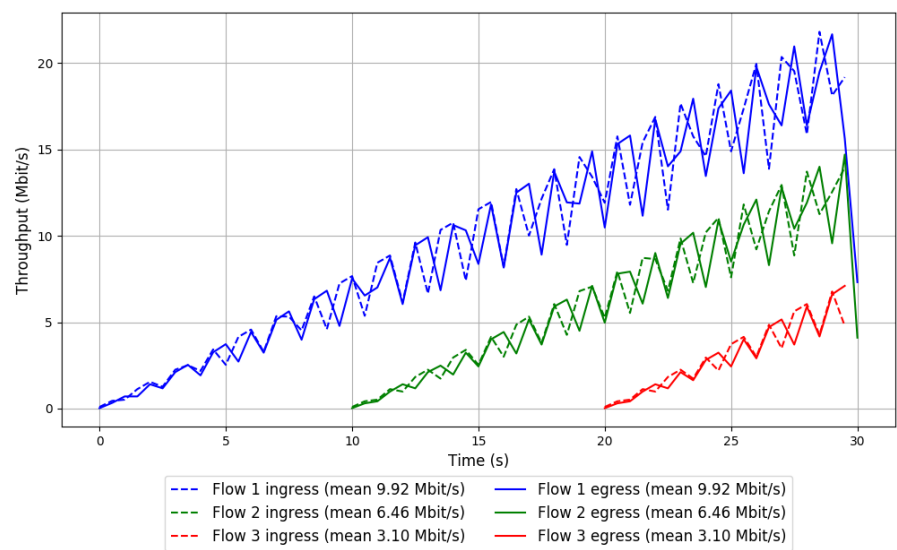


Run 7: Statistics of LEDBAT

Start at: 2018-04-24 23:15:27
End at: 2018-04-24 23:15:57
Local clock offset: -3.0 ms
Remote clock offset: -2.939 ms

Below is generated by plot.py at 2018-04-25 01:02:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 15.22 Mbit/s
95th percentile per-packet one-way delay: 153.229 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 9.92 Mbit/s
95th percentile per-packet one-way delay: 152.580 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 6.46 Mbit/s
95th percentile per-packet one-way delay: 153.159 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 3.10 Mbit/s
95th percentile per-packet one-way delay: 153.862 ms
Loss rate: 0.00%

Run 7: Report of LEDBAT — Data Link

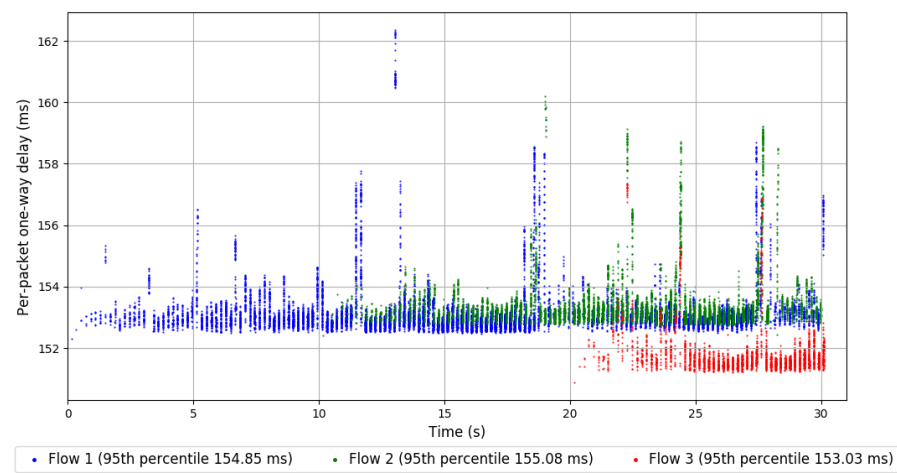
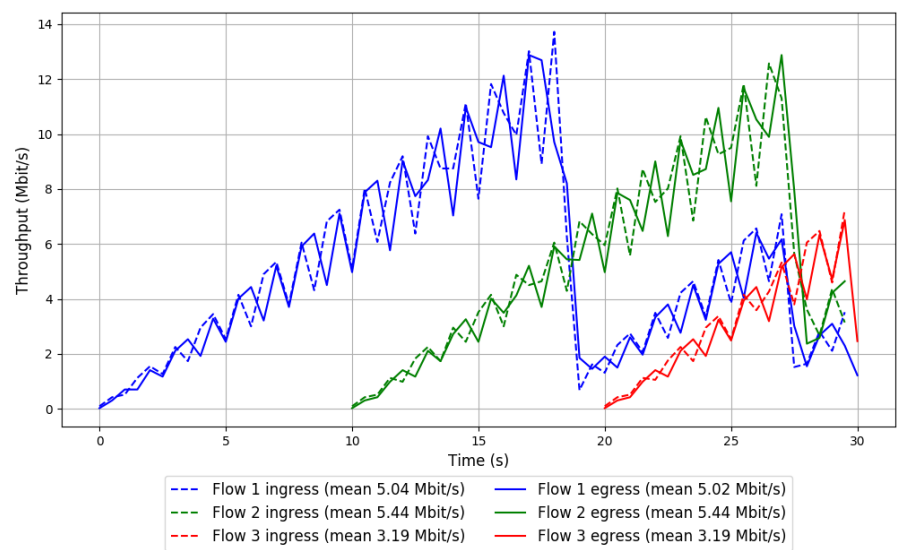


Run 8: Statistics of LEDBAT

Start at: 2018-04-24 23:38:16
End at: 2018-04-24 23:38:46
Local clock offset: 0.052 ms
Remote clock offset: -1.787 ms

Below is generated by plot.py at 2018-04-25 01:02:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 9.67 Mbit/s
95th percentile per-packet one-way delay: 154.783 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 5.02 Mbit/s
95th percentile per-packet one-way delay: 154.855 ms
Loss rate: 0.39%
-- Flow 2:
Average throughput: 5.44 Mbit/s
95th percentile per-packet one-way delay: 155.079 ms
Loss rate: 0.16%
-- Flow 3:
Average throughput: 3.19 Mbit/s
95th percentile per-packet one-way delay: 153.030 ms
Loss rate: 0.00%

Run 8: Report of LEDBAT — Data Link

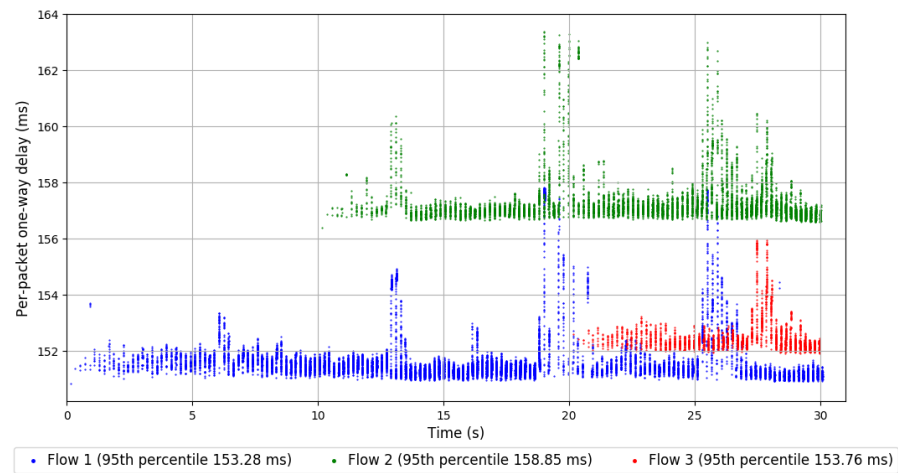
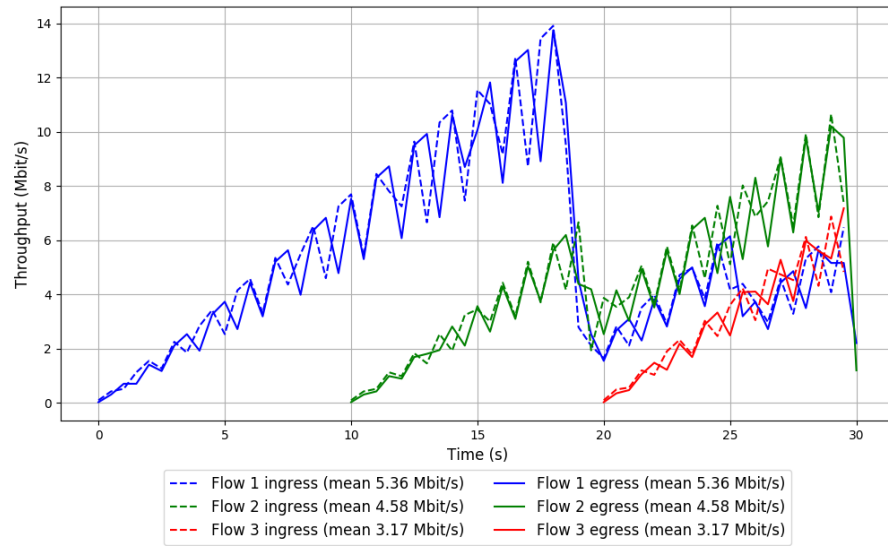


Run 9: Statistics of LEDBAT

Start at: 2018-04-25 00:01:38
End at: 2018-04-25 00:02:08
Local clock offset: -3.123 ms
Remote clock offset: -1.729 ms

Below is generated by plot.py at 2018-04-25 01:02:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 9.44 Mbit/s
95th percentile per-packet one-way delay: 157.586 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 5.36 Mbit/s
95th percentile per-packet one-way delay: 153.283 ms
Loss rate: 0.09%
-- Flow 2:
Average throughput: 4.58 Mbit/s
95th percentile per-packet one-way delay: 158.848 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 3.17 Mbit/s
95th percentile per-packet one-way delay: 153.762 ms
Loss rate: 0.00%

Run 9: Report of LEDBAT — Data Link

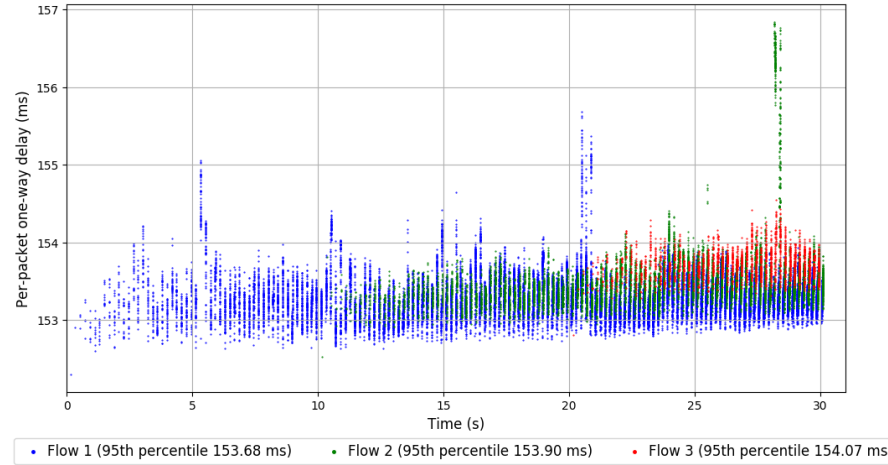
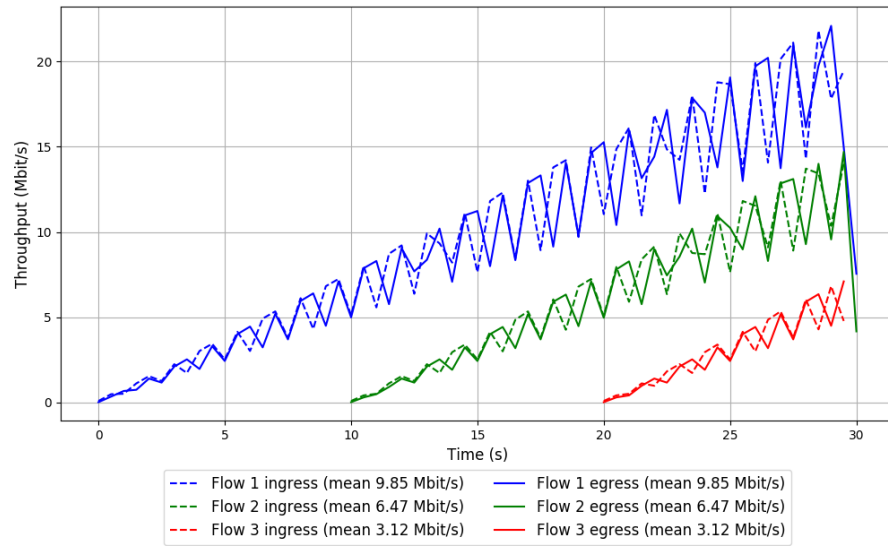


Run 10: Statistics of LEDBAT

Start at: 2018-04-25 00:24:22
End at: 2018-04-25 00:24:52
Local clock offset: -5.319 ms
Remote clock offset: -17.489 ms

Below is generated by plot.py at 2018-04-25 01:02:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 15.16 Mbit/s
95th percentile per-packet one-way delay: 153.841 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 9.85 Mbit/s
95th percentile per-packet one-way delay: 153.680 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 6.47 Mbit/s
95th percentile per-packet one-way delay: 153.898 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 3.12 Mbit/s
95th percentile per-packet one-way delay: 154.075 ms
Loss rate: 0.00%

Run 10: Report of LEDBAT — Data Link

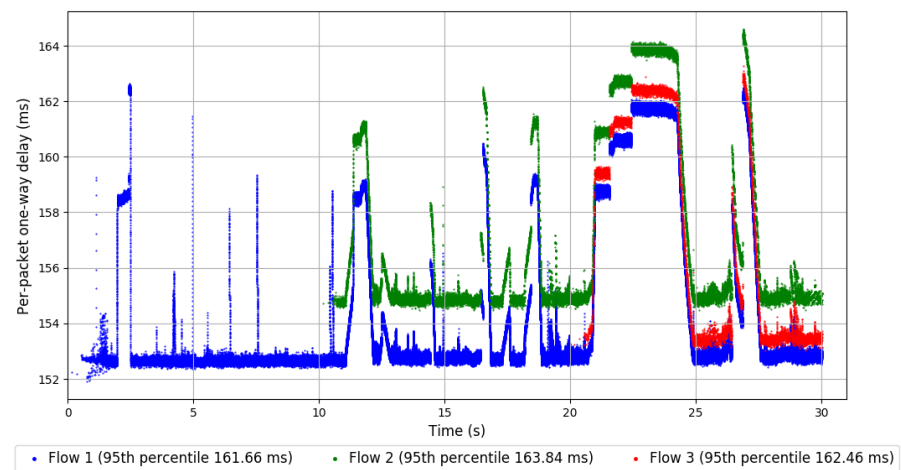
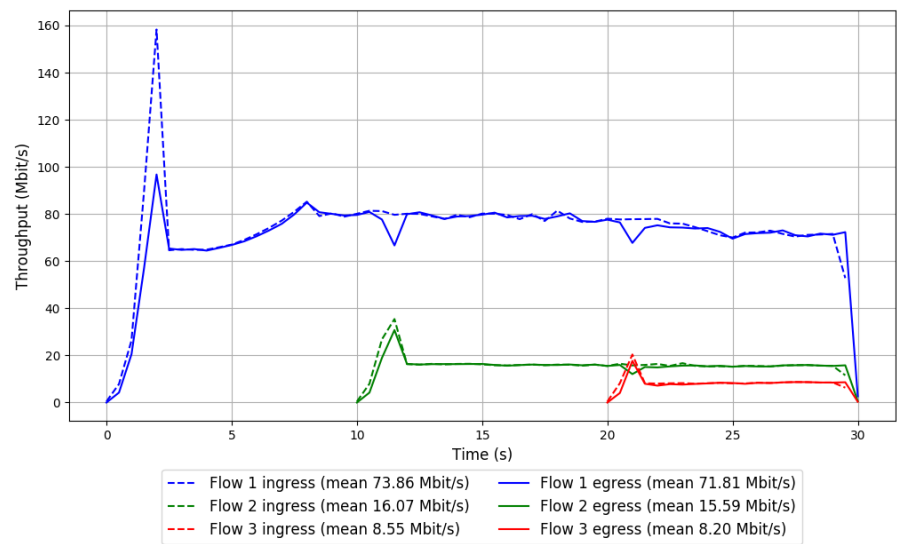


Run 1: Statistics of PCC-Allegro

Start at: 2018-04-24 20:49:11
End at: 2018-04-24 20:49:41
Local clock offset: 3.795 ms
Remote clock offset: -0.589 ms

Below is generated by plot.py at 2018-04-25 01:04:08
Datalink statistics
-- Total of 3 flows:
Average throughput: 84.88 Mbit/s
95th percentile per-packet one-way delay: 161.761 ms
Loss rate: 2.84%
-- Flow 1:
Average throughput: 71.81 Mbit/s
95th percentile per-packet one-way delay: 161.661 ms
Loss rate: 2.77%
-- Flow 2:
Average throughput: 15.59 Mbit/s
95th percentile per-packet one-way delay: 163.842 ms
Loss rate: 3.00%
-- Flow 3:
Average throughput: 8.20 Mbit/s
95th percentile per-packet one-way delay: 162.457 ms
Loss rate: 4.09%

Run 1: Report of PCC-Allegro — Data Link

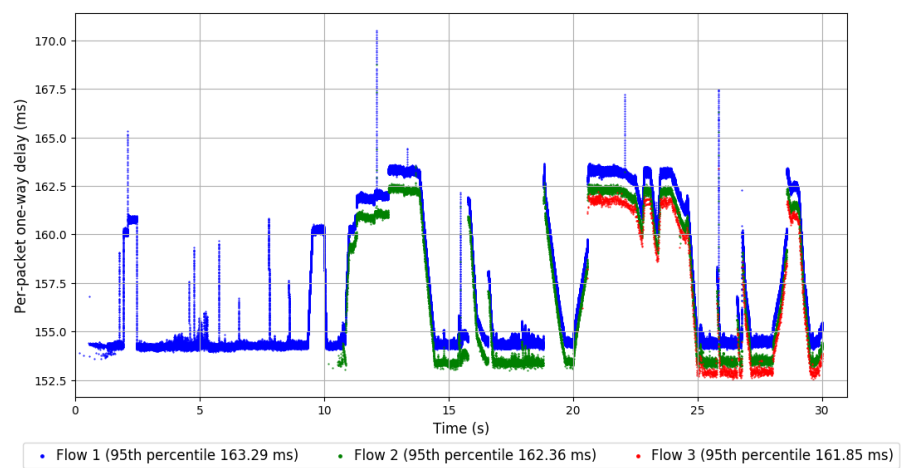
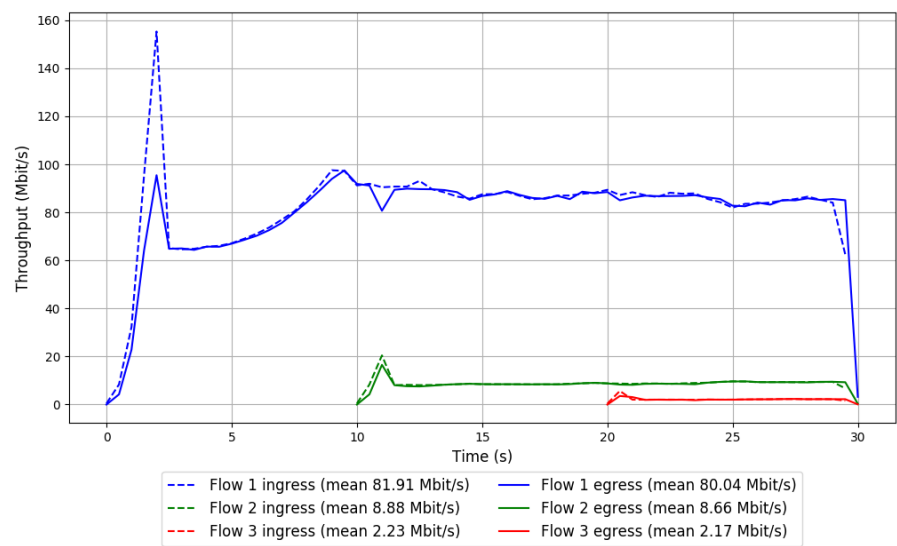


Run 2: Statistics of PCC-Allegro

Start at: 2018-04-24 21:12:21
End at: 2018-04-24 21:12:51
Local clock offset: 2.527 ms
Remote clock offset: -0.523 ms

Below is generated by plot.py at 2018-04-25 01:04:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 86.51 Mbit/s
95th percentile per-packet one-way delay: 163.284 ms
Loss rate: 2.30%
-- Flow 1:
Average throughput: 80.04 Mbit/s
95th percentile per-packet one-way delay: 163.294 ms
Loss rate: 2.28%
-- Flow 2:
Average throughput: 8.66 Mbit/s
95th percentile per-packet one-way delay: 162.357 ms
Loss rate: 2.51%
-- Flow 3:
Average throughput: 2.17 Mbit/s
95th percentile per-packet one-way delay: 161.855 ms
Loss rate: 2.60%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

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

End at: 2018-04-24 21:35:54

Local clock offset: 1.049 ms

Remote clock offset: 1.868 ms

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.35 Mbit/s

95th percentile per-packet one-way delay: 167.418 ms

Loss rate: 2.80%

-- Flow 1:

Average throughput: 77.30 Mbit/s

95th percentile per-packet one-way delay: 167.660 ms

Loss rate: 2.68%

-- Flow 2:

Average throughput: 8.24 Mbit/s

95th percentile per-packet one-way delay: 163.791 ms

Loss rate: 3.69%

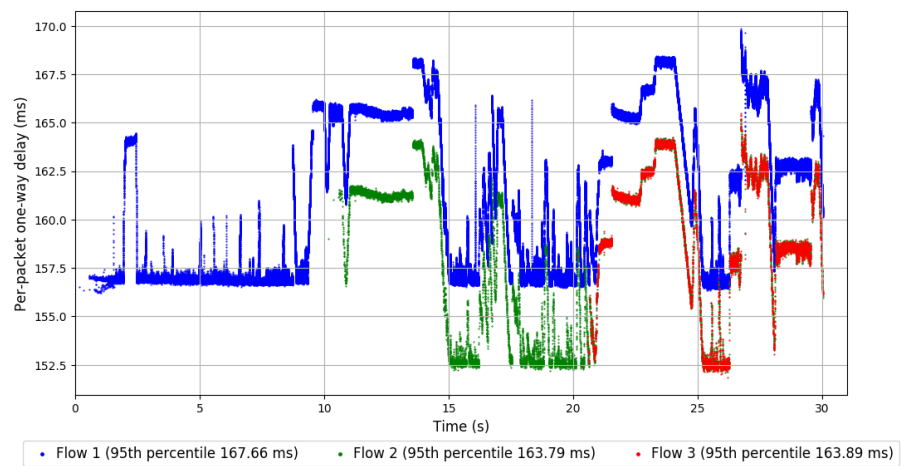
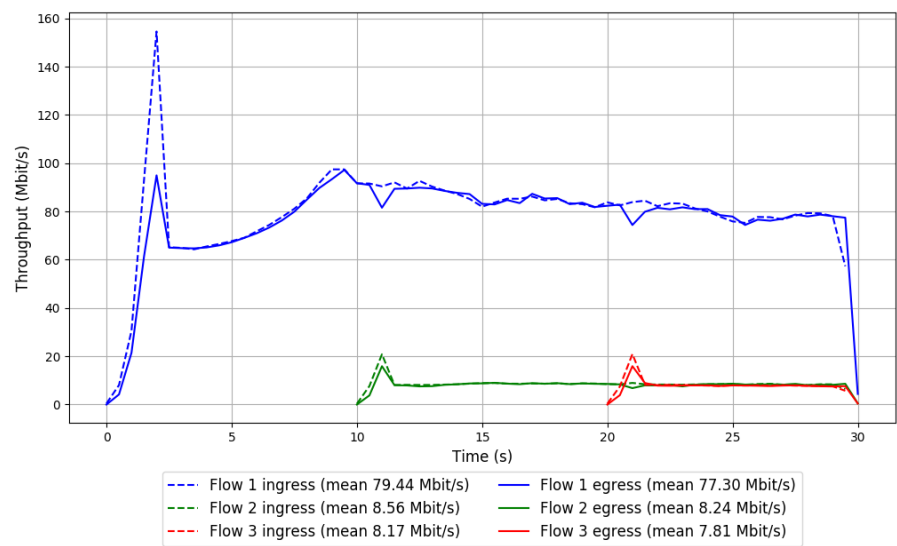
-- Flow 3:

Average throughput: 7.81 Mbit/s

95th percentile per-packet one-way delay: 163.889 ms

Loss rate: 4.46%

Run 3: Report of PCC-Allegro — Data Link

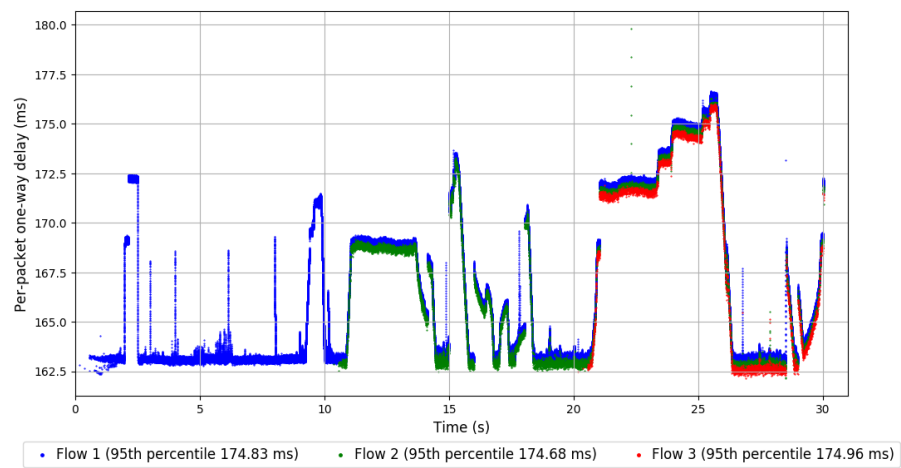
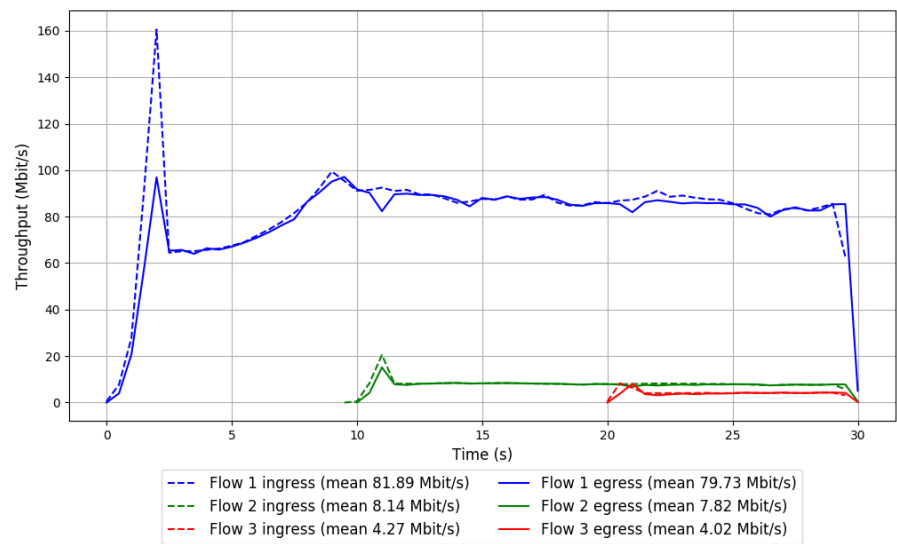


Run 4: Statistics of PCC-Allegro

Start at: 2018-04-24 21:58:32
End at: 2018-04-24 21:59:02
Local clock offset: -5.03 ms
Remote clock offset: 14.119 ms

Below is generated by plot.py at 2018-04-25 01:04:15
Datalink statistics
-- Total of 3 flows:
Average throughput: 86.26 Mbit/s
95th percentile per-packet one-way delay: 174.825 ms
Loss rate: 2.73%
-- Flow 1:
Average throughput: 79.73 Mbit/s
95th percentile per-packet one-way delay: 174.834 ms
Loss rate: 2.60%
-- Flow 2:
Average throughput: 7.82 Mbit/s
95th percentile per-packet one-way delay: 174.683 ms
Loss rate: 3.95%
-- Flow 3:
Average throughput: 4.02 Mbit/s
95th percentile per-packet one-way delay: 174.962 ms
Loss rate: 5.84%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2018-04-24 22:21:20

End at: 2018-04-24 22:21:50

Local clock offset: 2.563 ms

Remote clock offset: 5.261 ms

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.19 Mbit/s

95th percentile per-packet one-way delay: 163.902 ms

Loss rate: 2.81%

-- Flow 1:

Average throughput: 72.04 Mbit/s

95th percentile per-packet one-way delay: 163.994 ms

Loss rate: 2.77%

-- Flow 2:

Average throughput: 16.10 Mbit/s

95th percentile per-packet one-way delay: 163.563 ms

Loss rate: 2.89%

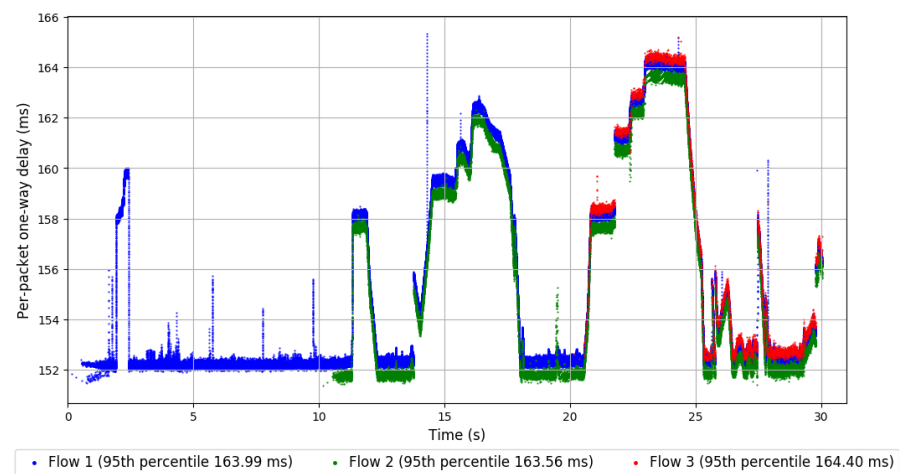
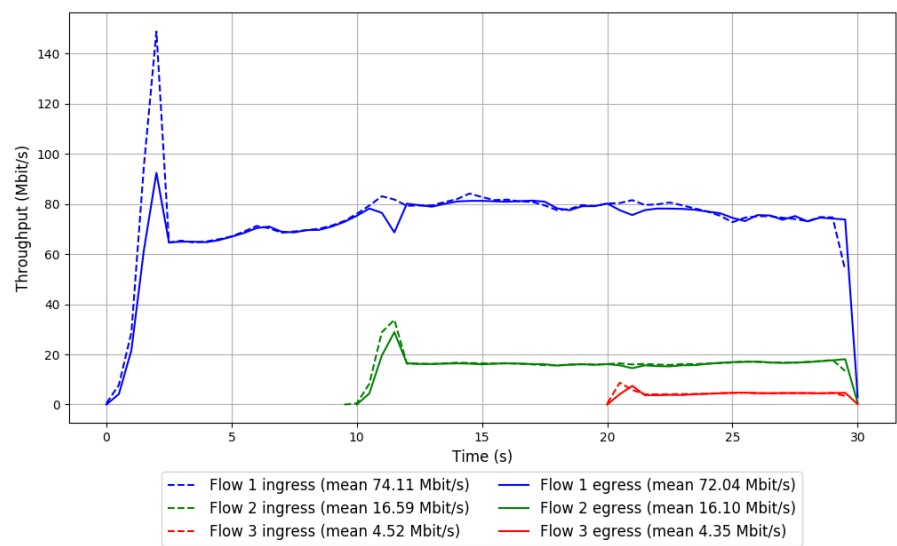
-- Flow 3:

Average throughput: 4.35 Mbit/s

95th percentile per-packet one-way delay: 164.401 ms

Loss rate: 3.88%

Run 5: Report of PCC-Allegro — Data Link



Run 6: Statistics of PCC-Allegro

Start at: 2018-04-24 22:44:17

End at: 2018-04-24 22:44:47

Local clock offset: 4.751 ms

Remote clock offset: 0.55 ms

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.33 Mbit/s

95th percentile per-packet one-way delay: 165.456 ms

Loss rate: 2.90%

-- Flow 1:

Average throughput: 78.29 Mbit/s

95th percentile per-packet one-way delay: 165.475 ms

Loss rate: 2.72%

-- Flow 2:

Average throughput: 8.14 Mbit/s

95th percentile per-packet one-way delay: 163.186 ms

Loss rate: 4.42%

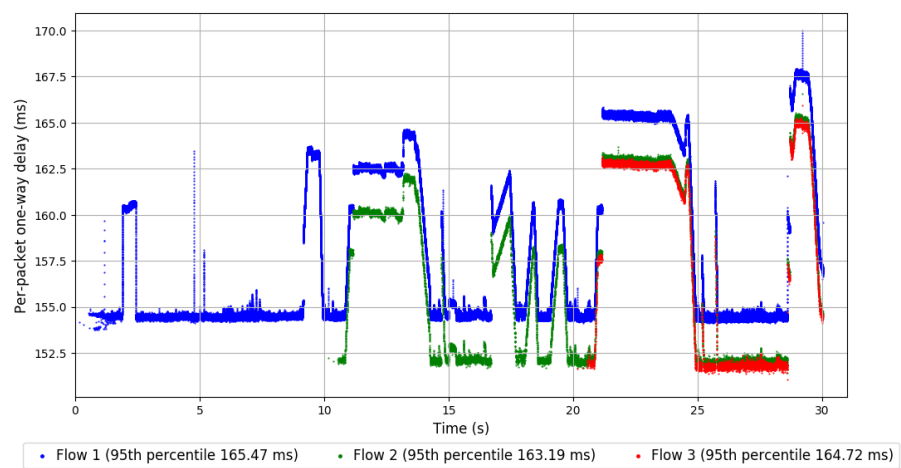
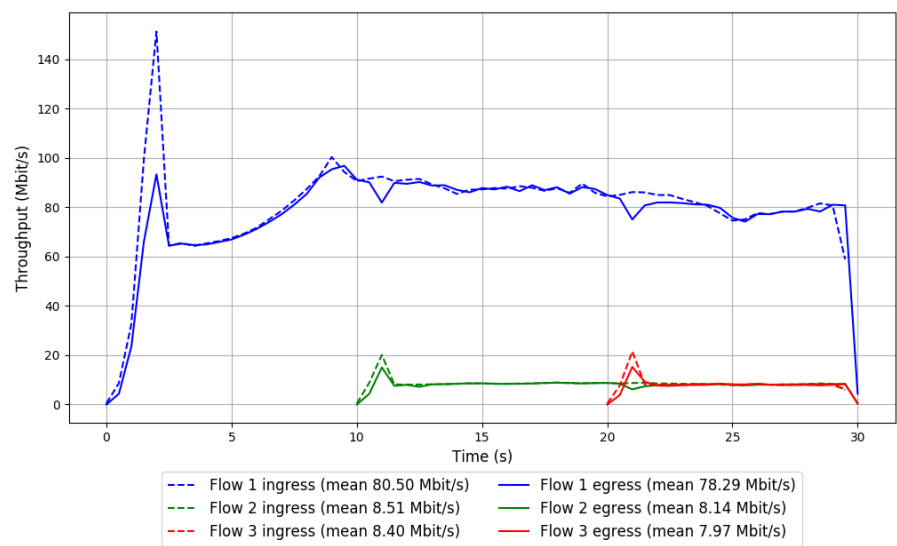
-- Flow 3:

Average throughput: 7.97 Mbit/s

95th percentile per-packet one-way delay: 164.723 ms

Loss rate: 5.09%

Run 6: Report of PCC-Allegro — Data Link

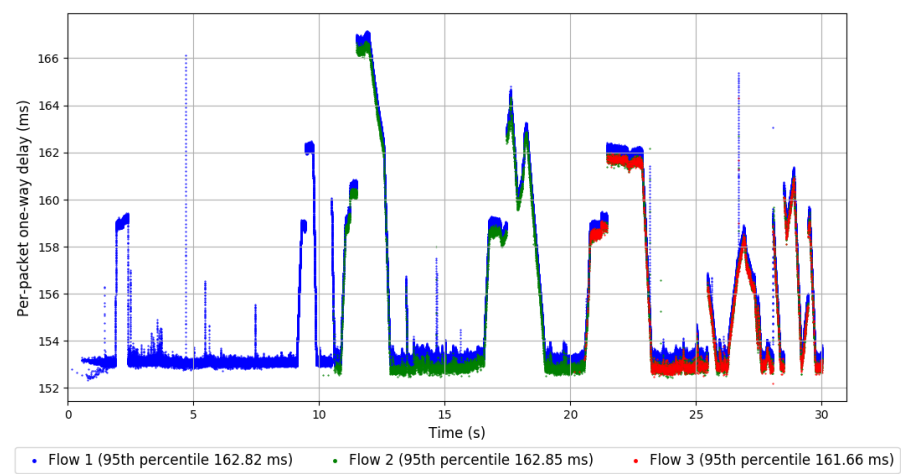
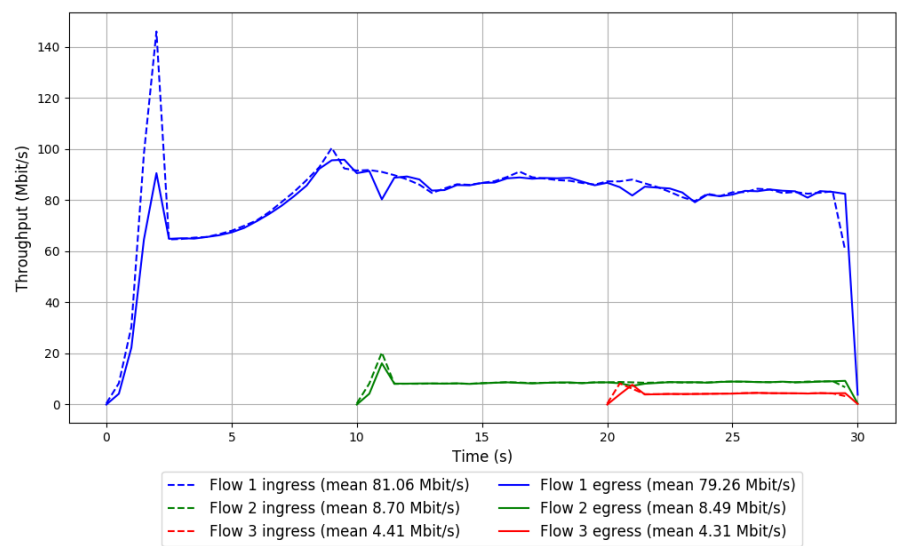


Run 7: Statistics of PCC-Allegro

Start at: 2018-04-24 23:07:21
End at: 2018-04-24 23:07:51
Local clock offset: -2.752 ms
Remote clock offset: -4.297 ms

Below is generated by plot.py at 2018-04-25 01:04:24
Datalink statistics
-- Total of 3 flows:
Average throughput: 86.33 Mbit/s
95th percentile per-packet one-way delay: 162.774 ms
Loss rate: 2.23%
-- Flow 1:
Average throughput: 79.26 Mbit/s
95th percentile per-packet one-way delay: 162.822 ms
Loss rate: 2.21%
-- Flow 2:
Average throughput: 8.49 Mbit/s
95th percentile per-packet one-way delay: 162.846 ms
Loss rate: 2.43%
-- Flow 3:
Average throughput: 4.31 Mbit/s
95th percentile per-packet one-way delay: 161.664 ms
Loss rate: 2.23%

Run 7: Report of PCC-Allegro — Data Link

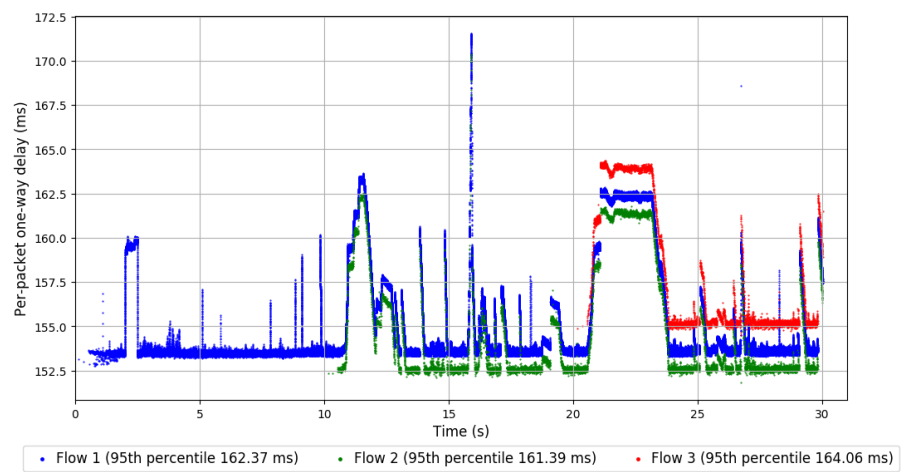
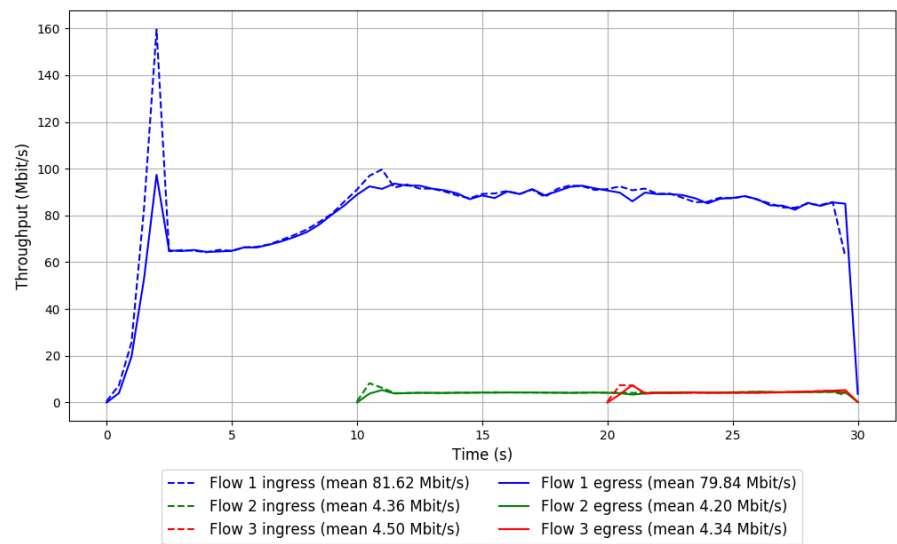


Run 8: Statistics of PCC-Allegro

Start at: 2018-04-24 23:30:09
End at: 2018-04-24 23:30:39
Local clock offset: -0.691 ms
Remote clock offset: -1.493 ms

Below is generated by plot.py at 2018-04-25 01:04:24
Datalink statistics
-- Total of 3 flows:
Average throughput: 84.06 Mbit/s
95th percentile per-packet one-way delay: 162.372 ms
Loss rate: 2.23%
-- Flow 1:
Average throughput: 79.84 Mbit/s
95th percentile per-packet one-way delay: 162.365 ms
Loss rate: 2.16%
-- Flow 2:
Average throughput: 4.20 Mbit/s
95th percentile per-packet one-way delay: 161.388 ms
Loss rate: 3.60%
-- Flow 3:
Average throughput: 4.34 Mbit/s
95th percentile per-packet one-way delay: 164.062 ms
Loss rate: 3.48%

Run 8: Report of PCC-Allegro — Data Link

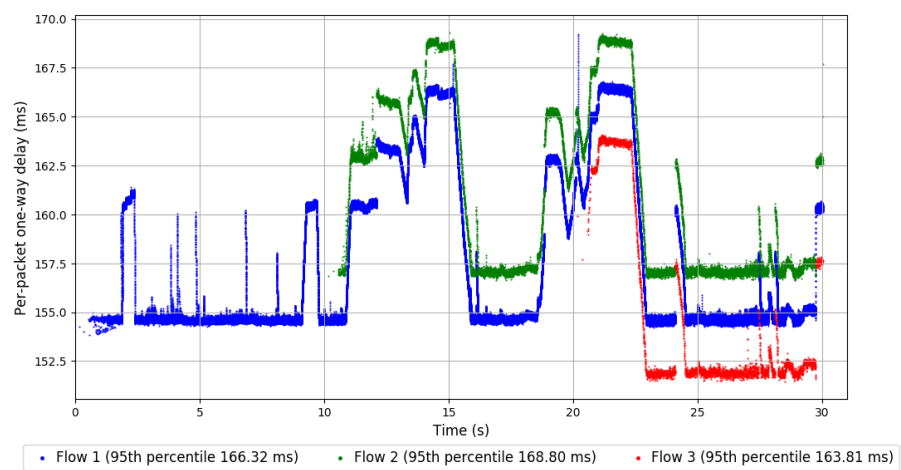
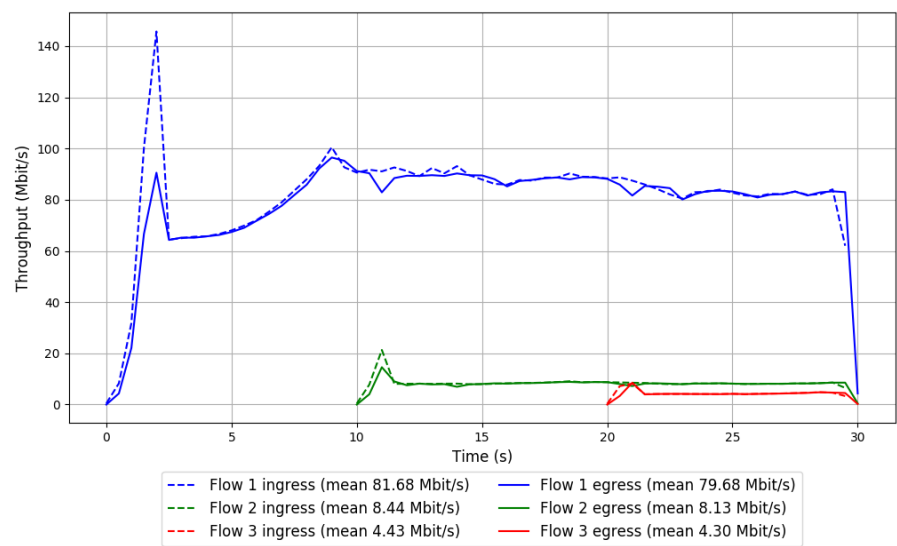


Run 9: Statistics of PCC-Allegro

Start at: 2018-04-24 23:53:34
End at: 2018-04-24 23:54:04
Local clock offset: -1.016 ms
Remote clock offset: -1.694 ms

Below is generated by plot.py at 2018-04-25 01:05:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 86.50 Mbit/s
95th percentile per-packet one-way delay: 166.345 ms
Loss rate: 2.50%
-- Flow 1:
Average throughput: 79.68 Mbit/s
95th percentile per-packet one-way delay: 166.317 ms
Loss rate: 2.41%
-- Flow 2:
Average throughput: 8.13 Mbit/s
95th percentile per-packet one-way delay: 168.799 ms
Loss rate: 3.64%
-- Flow 3:
Average throughput: 4.30 Mbit/s
95th percentile per-packet one-way delay: 163.807 ms
Loss rate: 2.99%

Run 9: Report of PCC-Allegro — Data Link

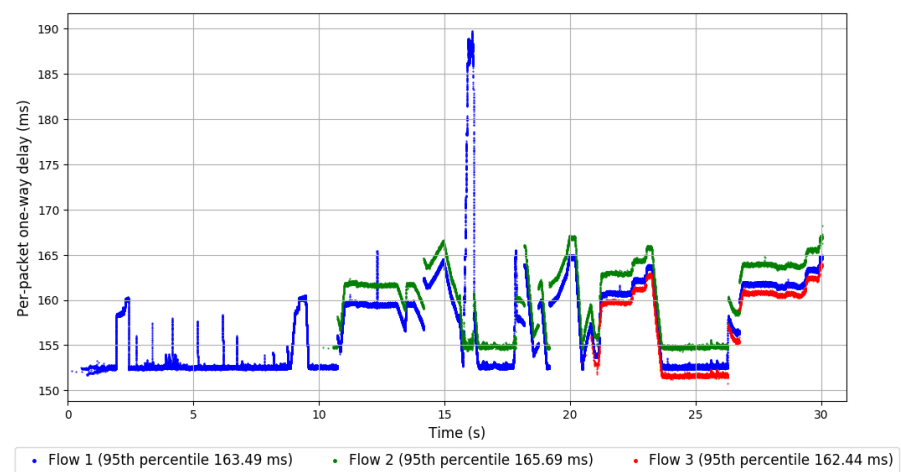
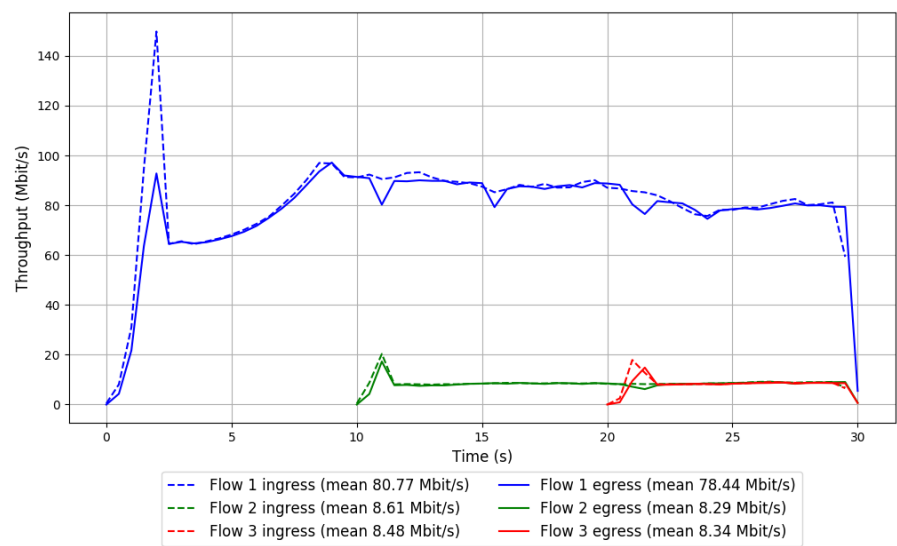


Run 10: Statistics of PCC-Allegro

Start at: 2018-04-25 00:16:19
End at: 2018-04-25 00:16:49
Local clock offset: -4.845 ms
Remote clock offset: -1.753 ms

Below is generated by plot.py at 2018-04-25 01:05:48
Datalink statistics
-- Total of 3 flows:
Average throughput: 86.63 Mbit/s
95th percentile per-packet one-way delay: 163.770 ms
Loss rate: 2.94%
-- Flow 1:
Average throughput: 78.44 Mbit/s
95th percentile per-packet one-way delay: 163.487 ms
Loss rate: 2.84%
-- Flow 2:
Average throughput: 8.29 Mbit/s
95th percentile per-packet one-way delay: 165.690 ms
Loss rate: 3.68%
-- Flow 3:
Average throughput: 8.34 Mbit/s
95th percentile per-packet one-way delay: 162.445 ms
Loss rate: 4.03%

Run 10: Report of PCC-Allegro — Data Link

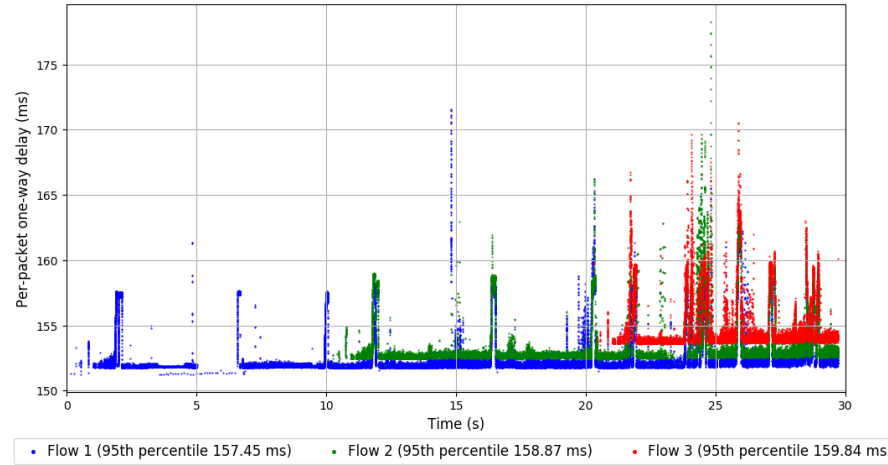
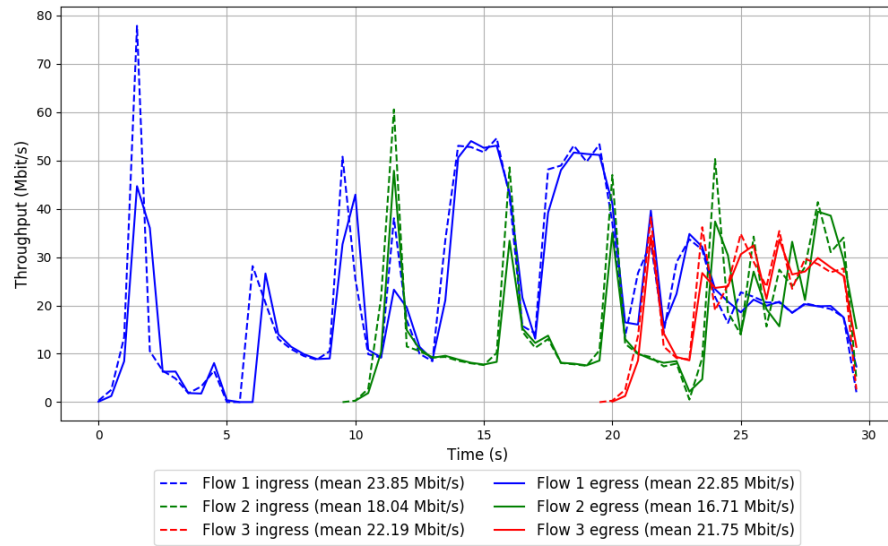


Run 1: Statistics of QUIC Cubic

Start at: 2018-04-24 20:56:10
End at: 2018-04-24 20:56:40
Local clock offset: 4.359 ms
Remote clock offset: -0.513 ms

Below is generated by plot.py at 2018-04-25 01:05:48
Datalink statistics
-- Total of 3 flows:
Average throughput: 41.00 Mbit/s
95th percentile per-packet one-way delay: 158.610 ms
Loss rate: 4.69%
-- Flow 1:
Average throughput: 22.85 Mbit/s
95th percentile per-packet one-way delay: 157.453 ms
Loss rate: 4.18%
-- Flow 2:
Average throughput: 16.71 Mbit/s
95th percentile per-packet one-way delay: 158.867 ms
Loss rate: 7.37%
-- Flow 3:
Average throughput: 21.75 Mbit/s
95th percentile per-packet one-way delay: 159.841 ms
Loss rate: 1.91%

Run 1: Report of QUIC Cubic — Data Link

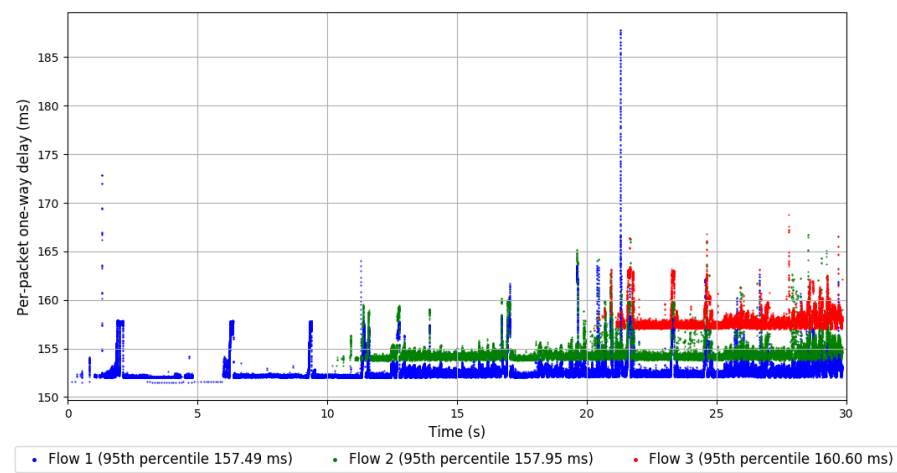
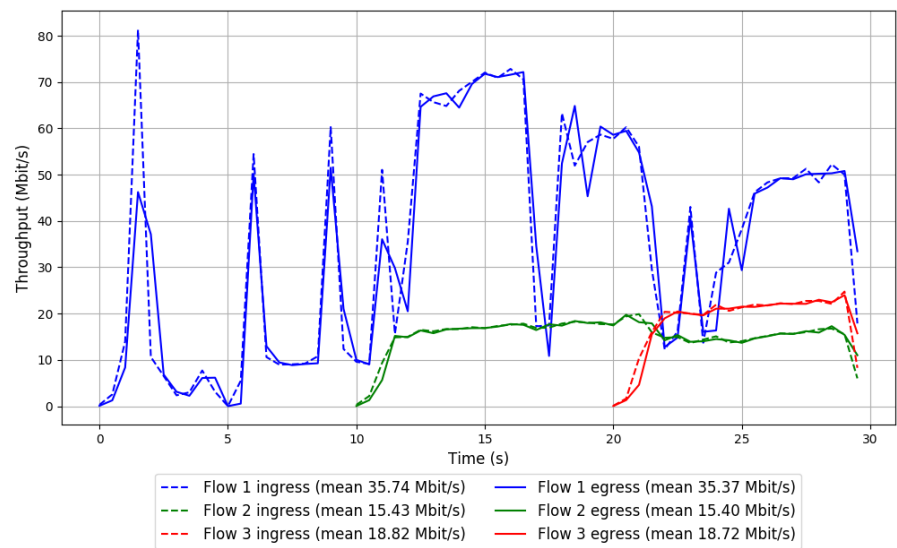


Run 2: Statistics of QUIC Cubic

Start at: 2018-04-24 21:19:21
End at: 2018-04-24 21:19:51
Local clock offset: 2.595 ms
Remote clock offset: -0.592 ms

Below is generated by plot.py at 2018-04-25 01:05:48
Datalink statistics
-- Total of 3 flows:
Average throughput: 51.60 Mbit/s
95th percentile per-packet one-way delay: 158.026 ms
Loss rate: 0.81%
-- Flow 1:
Average throughput: 35.37 Mbit/s
95th percentile per-packet one-way delay: 157.485 ms
Loss rate: 1.04%
-- Flow 2:
Average throughput: 15.40 Mbit/s
95th percentile per-packet one-way delay: 157.950 ms
Loss rate: 0.17%
-- Flow 3:
Average throughput: 18.72 Mbit/s
95th percentile per-packet one-way delay: 160.596 ms
Loss rate: 0.53%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-04-24 21:42:19

End at: 2018-04-24 21:42:49

Local clock offset: -2.21 ms

Remote clock offset: 2.985 ms

Below is generated by plot.py at 2018-04-25 01:05:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 43.18 Mbit/s

95th percentile per-packet one-way delay: 160.760 ms

Loss rate: 2.90%

-- Flow 1:

Average throughput: 23.01 Mbit/s

95th percentile per-packet one-way delay: 158.738 ms

Loss rate: 3.84%

-- Flow 2:

Average throughput: 28.44 Mbit/s

95th percentile per-packet one-way delay: 162.458 ms

Loss rate: 1.91%

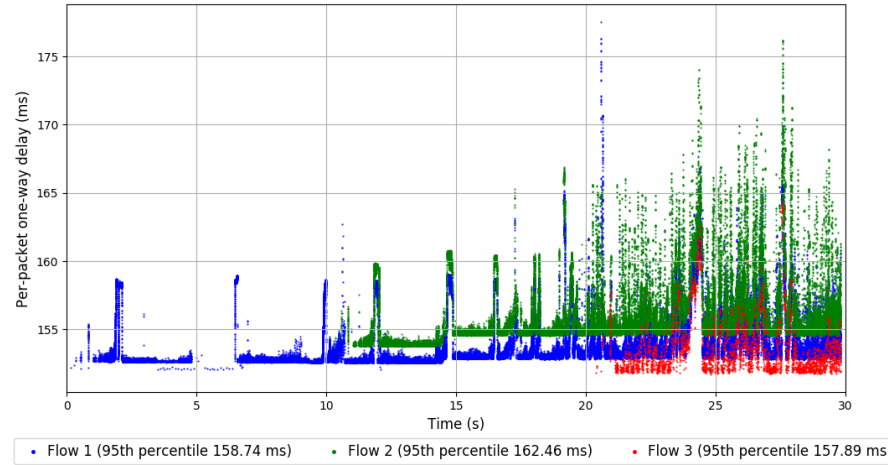
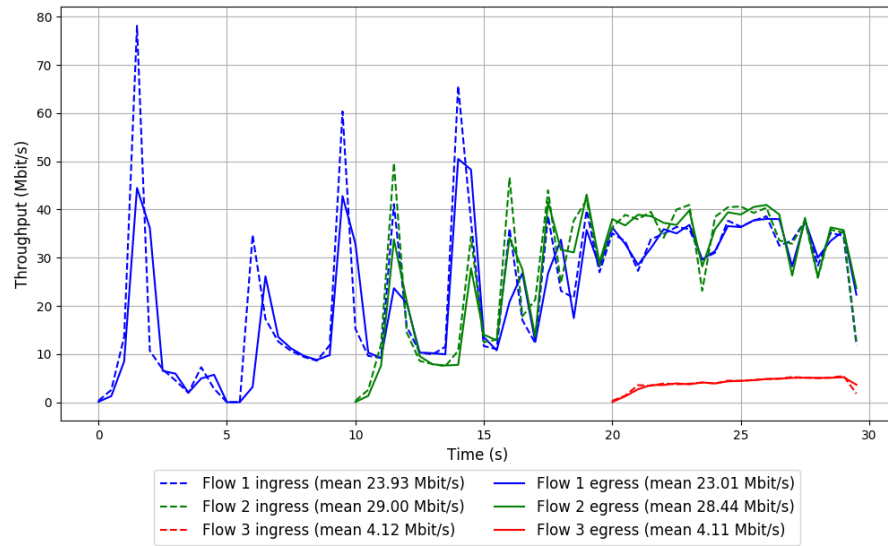
-- Flow 3:

Average throughput: 4.11 Mbit/s

95th percentile per-packet one-way delay: 157.886 ms

Loss rate: 0.17%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-04-24 22:05:20

End at: 2018-04-24 22:05:50

Local clock offset: -5.857 ms

Remote clock offset: 4.568 ms

Below is generated by plot.py at 2018-04-25 01:05:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 42.81 Mbit/s

95th percentile per-packet one-way delay: 159.277 ms

Loss rate: 4.25%

-- Flow 1:

Average throughput: 24.59 Mbit/s

95th percentile per-packet one-way delay: 158.444 ms

Loss rate: 3.81%

-- Flow 2:

Average throughput: 17.31 Mbit/s

95th percentile per-packet one-way delay: 159.377 ms

Loss rate: 6.59%

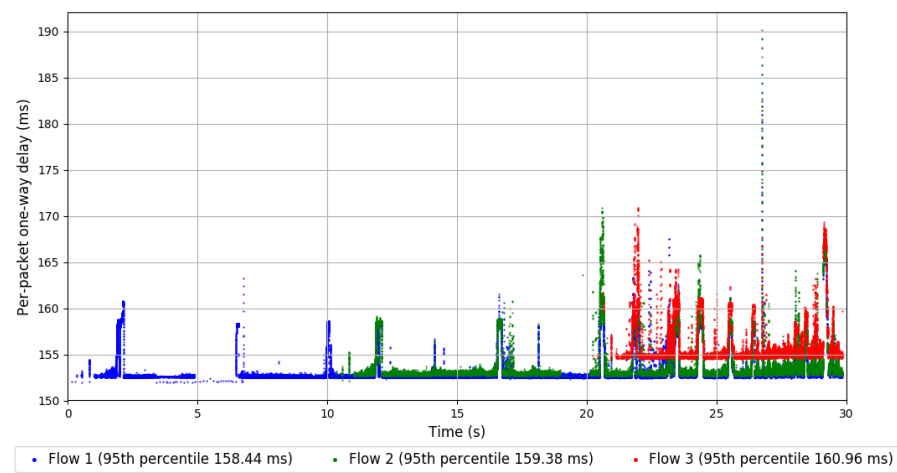
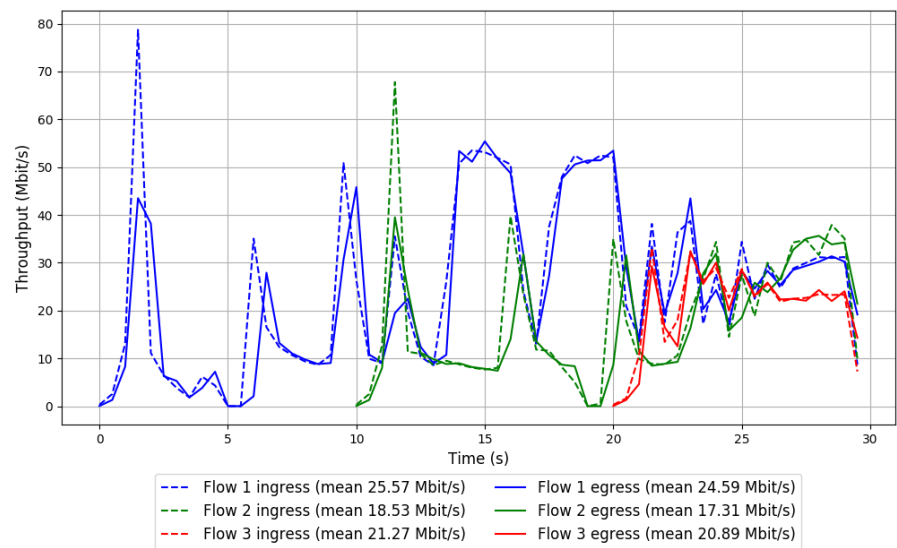
-- Flow 3:

Average throughput: 20.89 Mbit/s

95th percentile per-packet one-way delay: 160.958 ms

Loss rate: 1.72%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-04-24 22:28:08

End at: 2018-04-24 22:28:38

Local clock offset: 4.542 ms

Remote clock offset: 5.506 ms

Below is generated by plot.py at 2018-04-25 01:05:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 47.86 Mbit/s

95th percentile per-packet one-way delay: 158.604 ms

Loss rate: 0.99%

-- Flow 1:

Average throughput: 30.46 Mbit/s

95th percentile per-packet one-way delay: 159.086 ms

Loss rate: 1.31%

-- Flow 2:

Average throughput: 17.07 Mbit/s

95th percentile per-packet one-way delay: 155.230 ms

Loss rate: 0.45%

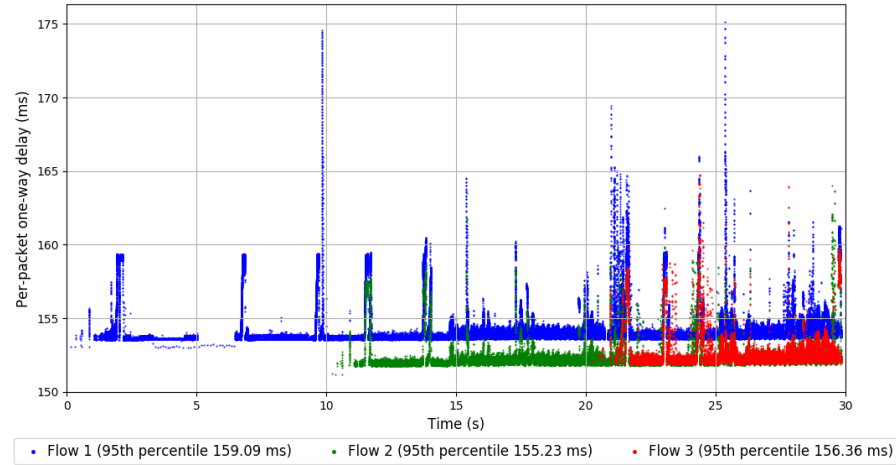
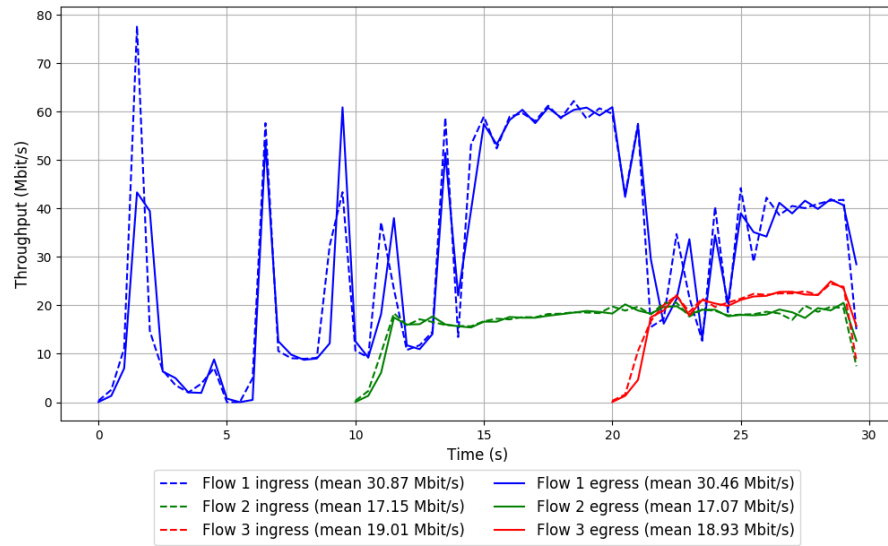
-- Flow 3:

Average throughput: 18.93 Mbit/s

95th percentile per-packet one-way delay: 156.362 ms

Loss rate: 0.42%

Run 5: Report of QUIC Cubic — Data Link

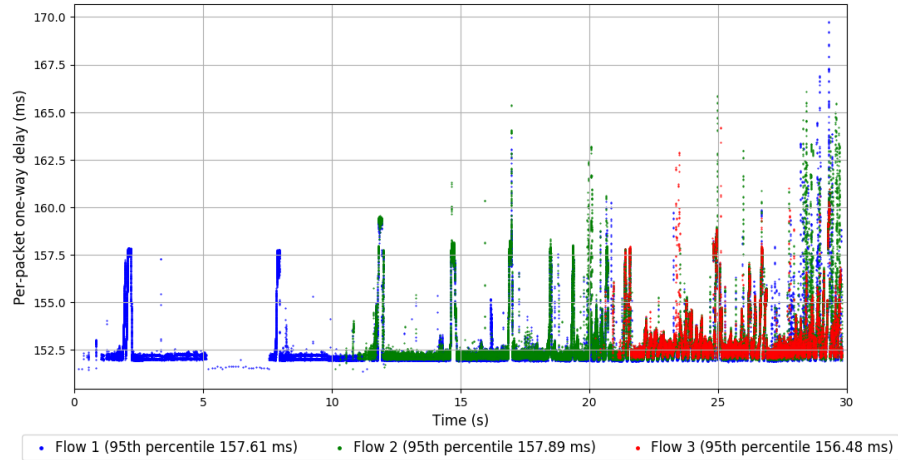
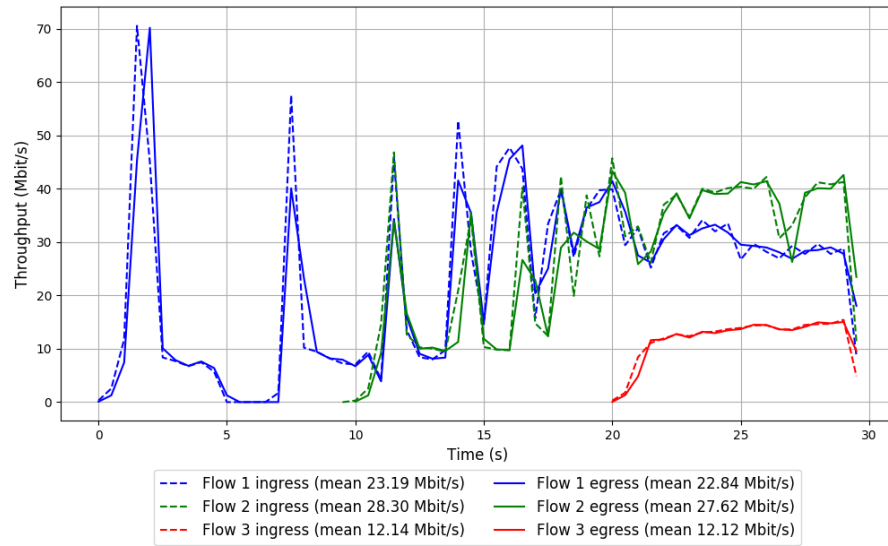


Run 6: Statistics of QUIC Cubic

Start at: 2018-04-24 22:51:21
End at: 2018-04-24 22:51:51
Local clock offset: 0.341 ms
Remote clock offset: -1.642 ms

Below is generated by plot.py at 2018-04-25 01:05:48
Datalink statistics
-- Total of 3 flows:
Average throughput: 45.08 Mbit/s
95th percentile per-packet one-way delay: 157.661 ms
Loss rate: 1.75%
-- Flow 1:
Average throughput: 22.84 Mbit/s
95th percentile per-packet one-way delay: 157.608 ms
Loss rate: 1.51%
-- Flow 2:
Average throughput: 27.62 Mbit/s
95th percentile per-packet one-way delay: 157.891 ms
Loss rate: 2.38%
-- Flow 3:
Average throughput: 12.12 Mbit/s
95th percentile per-packet one-way delay: 156.478 ms
Loss rate: 0.19%

Run 6: Report of QUIC Cubic — Data Link

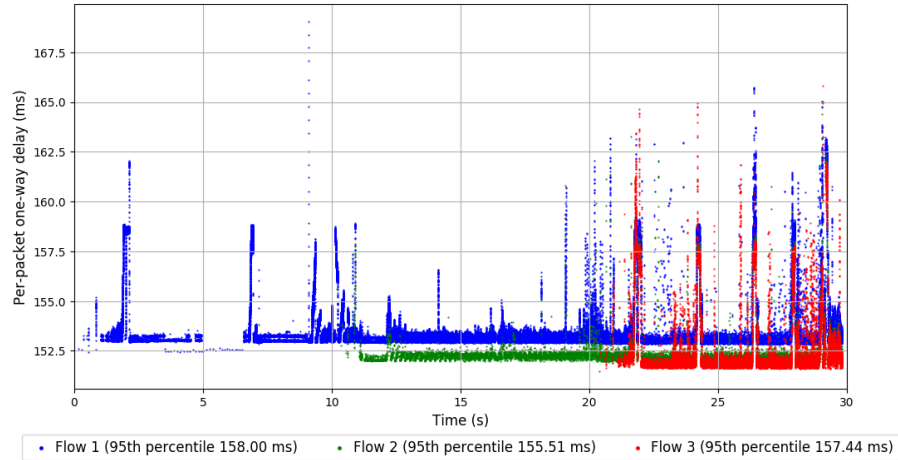
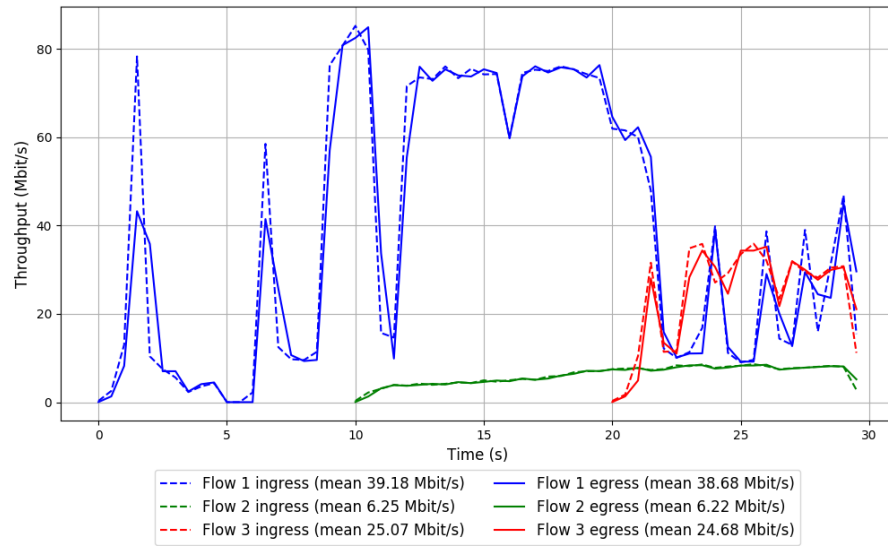


Run 7: Statistics of QUIC Cubic

Start at: 2018-04-24 23:14:08
End at: 2018-04-24 23:14:38
Local clock offset: -3.056 ms
Remote clock offset: -3.274 ms

Below is generated by plot.py at 2018-04-25 01:06:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 50.77 Mbit/s
95th percentile per-packet one-way delay: 157.693 ms
Loss rate: 1.26%
-- Flow 1:
Average throughput: 38.68 Mbit/s
95th percentile per-packet one-way delay: 157.996 ms
Loss rate: 1.28%
-- Flow 2:
Average throughput: 6.22 Mbit/s
95th percentile per-packet one-way delay: 155.508 ms
Loss rate: 0.55%
-- Flow 3:
Average throughput: 24.68 Mbit/s
95th percentile per-packet one-way delay: 157.438 ms
Loss rate: 1.56%

Run 7: Report of QUIC Cubic — Data Link

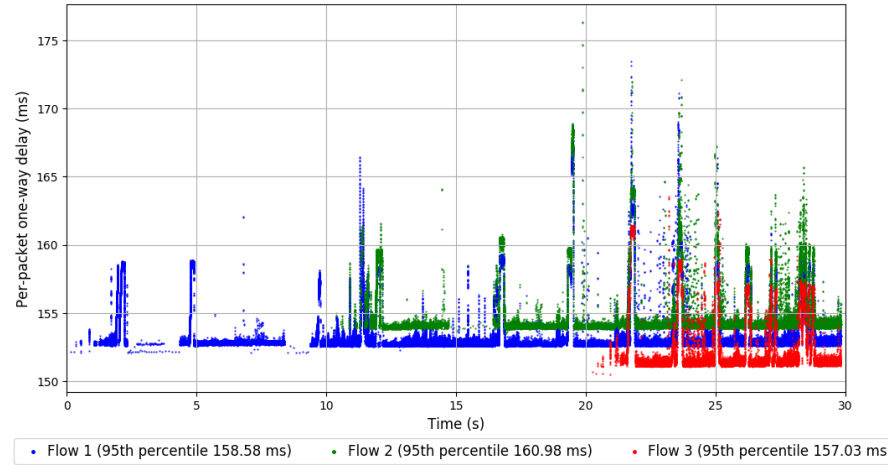
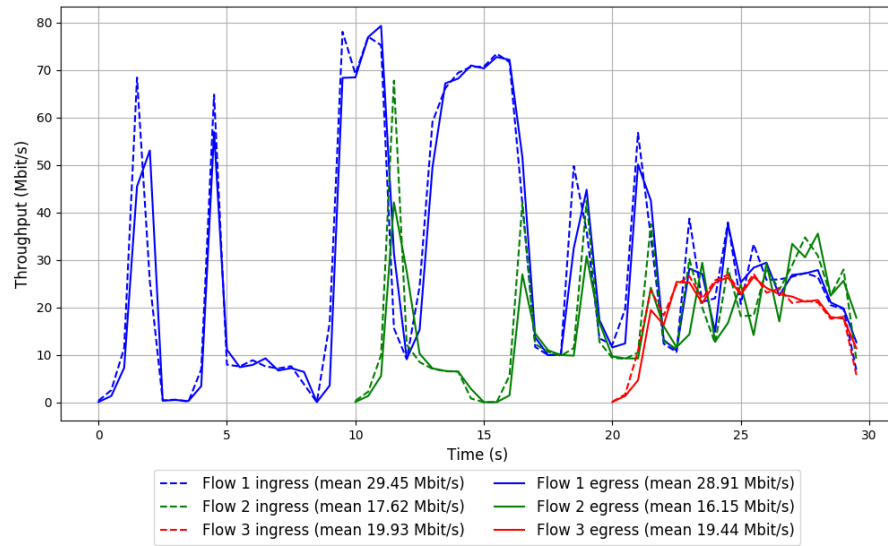


Run 8: Statistics of QUIC Cubic

Start at: 2018-04-24 23:36:56
End at: 2018-04-24 23:37:26
Local clock offset: -0.108 ms
Remote clock offset: -1.727 ms

Below is generated by plot.py at 2018-04-25 01:06:11
Datalink statistics
-- Total of 3 flows:
Average throughput: 45.86 Mbit/s
95th percentile per-packet one-way delay: 159.486 ms
Loss rate: 3.51%
-- Flow 1:
Average throughput: 28.91 Mbit/s
95th percentile per-packet one-way delay: 158.581 ms
Loss rate: 1.83%
-- Flow 2:
Average throughput: 16.15 Mbit/s
95th percentile per-packet one-way delay: 160.980 ms
Loss rate: 8.33%
-- Flow 3:
Average throughput: 19.44 Mbit/s
95th percentile per-packet one-way delay: 157.027 ms
Loss rate: 2.44%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

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

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

Local clock offset: -2.927 ms

Remote clock offset: -1.77 ms

Below is generated by plot.py at 2018-04-25 01:06:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 44.51 Mbit/s

95th percentile per-packet one-way delay: 158.364 ms

Loss rate: 2.91%

-- Flow 1:

Average throughput: 26.81 Mbit/s

95th percentile per-packet one-way delay: 158.380 ms

Loss rate: 1.62%

-- Flow 2:

Average throughput: 15.61 Mbit/s

95th percentile per-packet one-way delay: 157.991 ms

Loss rate: 6.59%

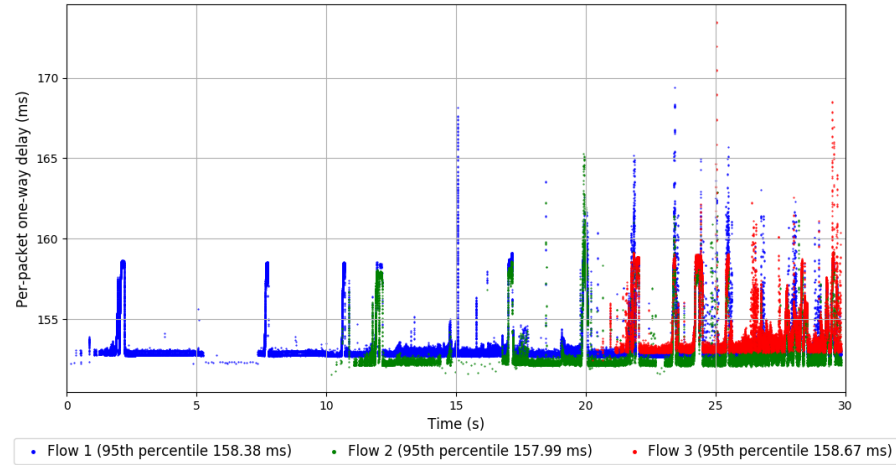
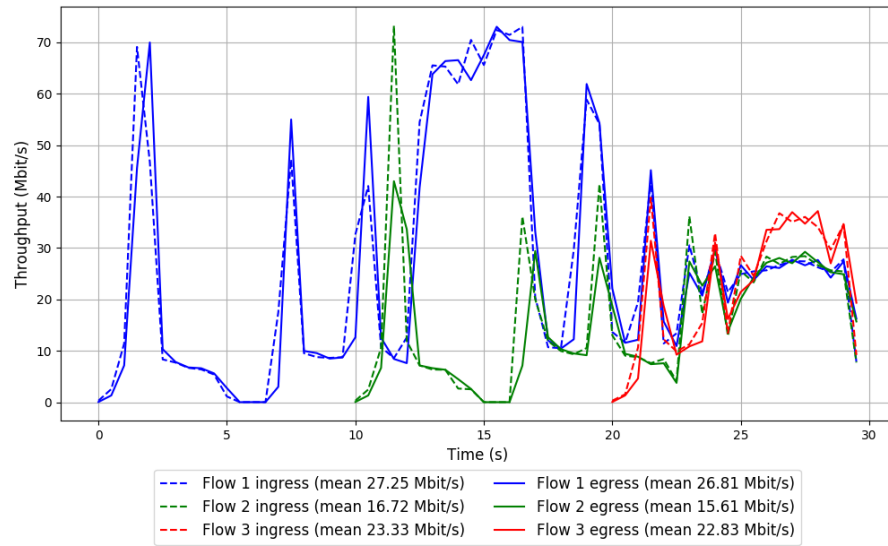
-- Flow 3:

Average throughput: 22.83 Mbit/s

95th percentile per-packet one-way delay: 158.670 ms

Loss rate: 2.14%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-04-25 00:23:02

End at: 2018-04-25 00:23:32

Local clock offset: -5.159 ms

Remote clock offset: -1.26 ms

Below is generated by plot.py at 2018-04-25 01:06:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 46.79 Mbit/s

95th percentile per-packet one-way delay: 169.426 ms

Loss rate: 2.78%

-- Flow 1:

Average throughput: 23.63 Mbit/s

95th percentile per-packet one-way delay: 169.059 ms

Loss rate: 2.56%

-- Flow 2:

Average throughput: 23.48 Mbit/s

95th percentile per-packet one-way delay: 169.441 ms

Loss rate: 3.50%

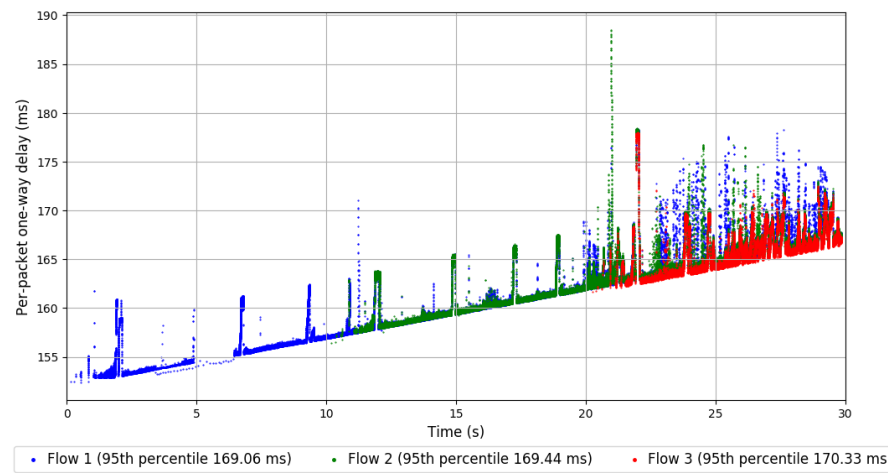
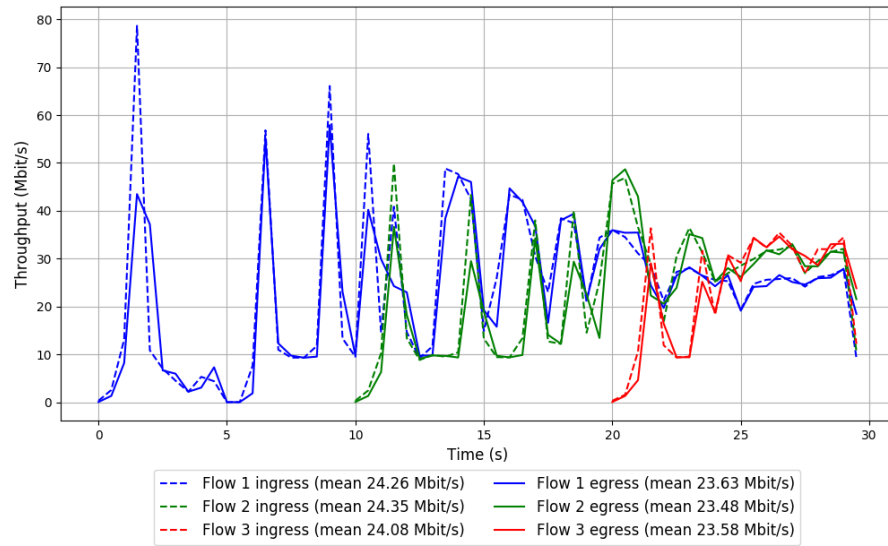
-- Flow 3:

Average throughput: 23.58 Mbit/s

95th percentile per-packet one-way delay: 170.329 ms

Loss rate: 2.00%

Run 10: Report of QUIC Cubic — Data Link

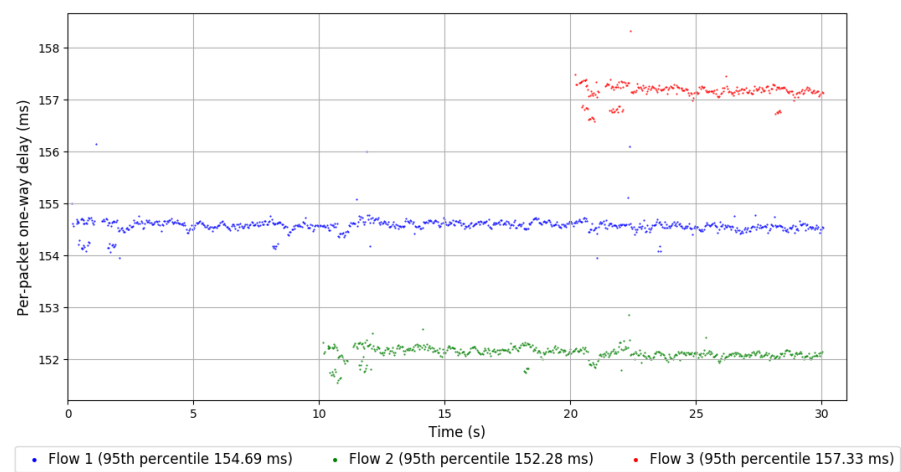
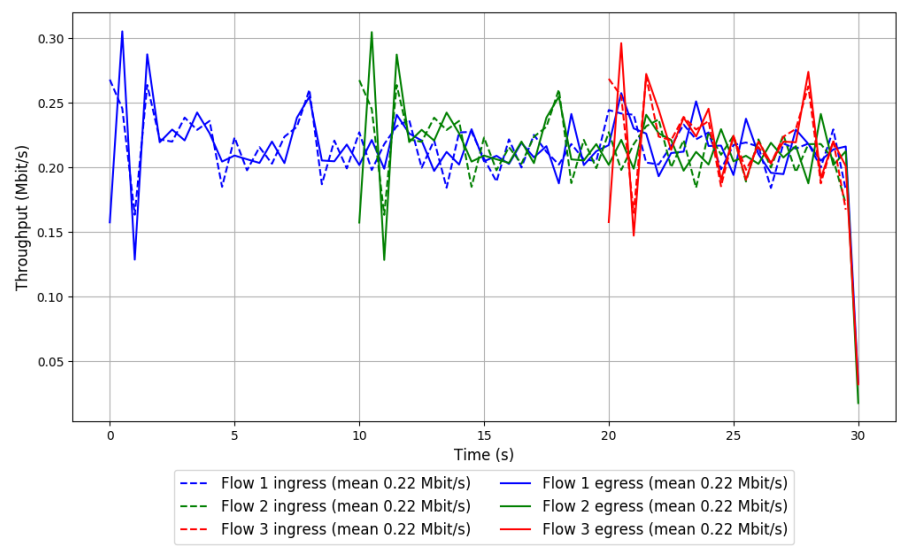


Run 1: Statistics of SReAM

Start at: 2018-04-24 21:05:24
End at: 2018-04-24 21:05:54
Local clock offset: 3.314 ms
Remote clock offset: -0.463 ms

Below is generated by plot.py at 2018-04-25 01:06:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 157.225 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 154.691 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 152.281 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 157.330 ms
Loss rate: 0.00%

Run 1: Report of SReAM — Data Link

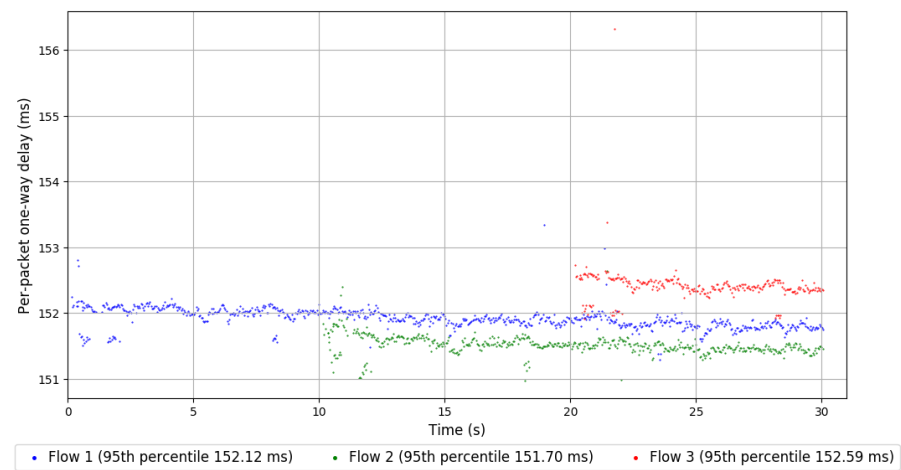
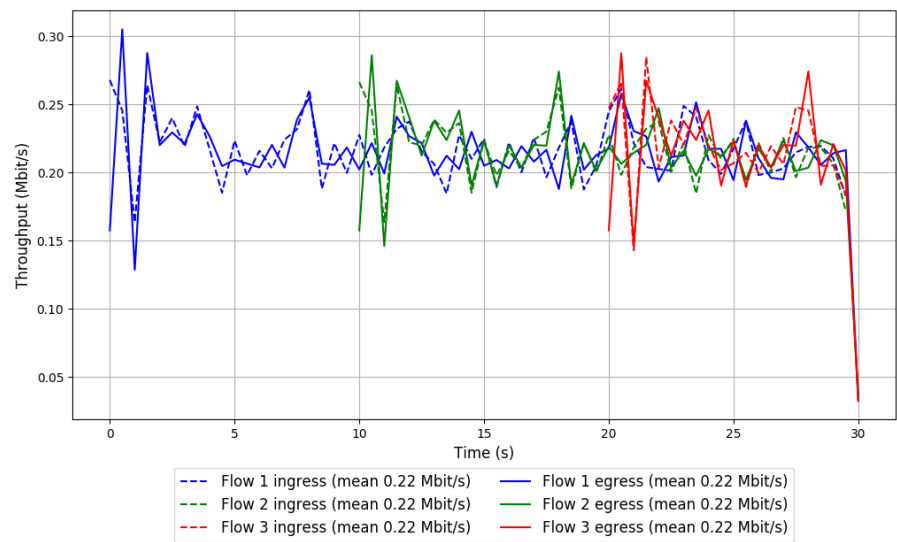


Run 2: Statistics of SReAM

Start at: 2018-04-24 21:28:36
End at: 2018-04-24 21:29:06
Local clock offset: 2.377 ms
Remote clock offset: -0.285 ms

Below is generated by plot.py at 2018-04-25 01:06:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 152.484 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 152.122 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 151.703 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 152.592 ms
Loss rate: 0.00%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SReAM

Start at: 2018-04-24 21:51:33

End at: 2018-04-24 21:52:03

Local clock offset: -4.05 ms

Remote clock offset: 3.858 ms

Below is generated by plot.py at 2018-04-25 01:06:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 152.329 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 152.109 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 152.348 ms

Loss rate: 0.00%

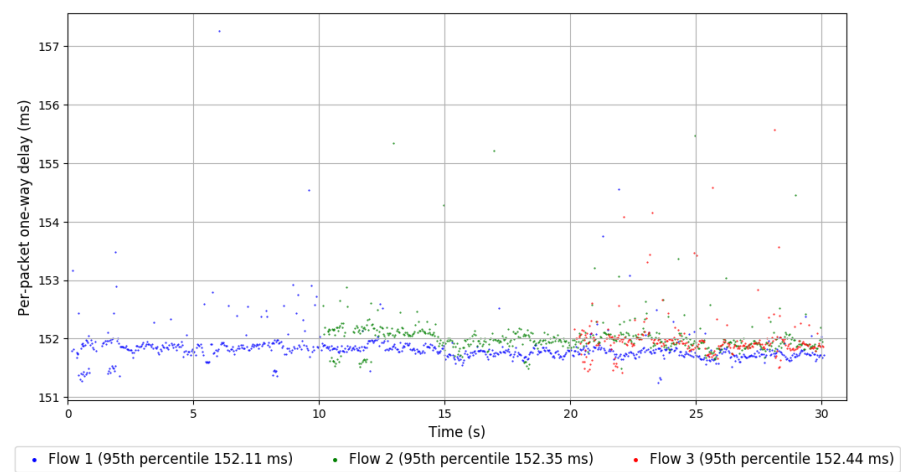
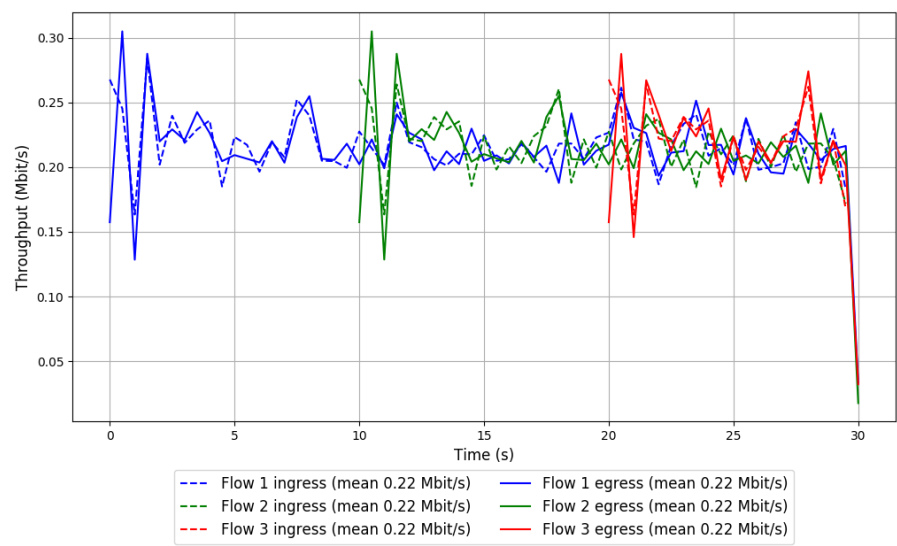
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 152.438 ms

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SReAM

Start at: 2018-04-24 22:14:32

End at: 2018-04-24 22:15:02

Local clock offset: -0.407 ms

Remote clock offset: 4.961 ms

Below is generated by plot.py at 2018-04-25 01:06:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 154.889 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 151.837 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 152.999 ms

Loss rate: 0.00%

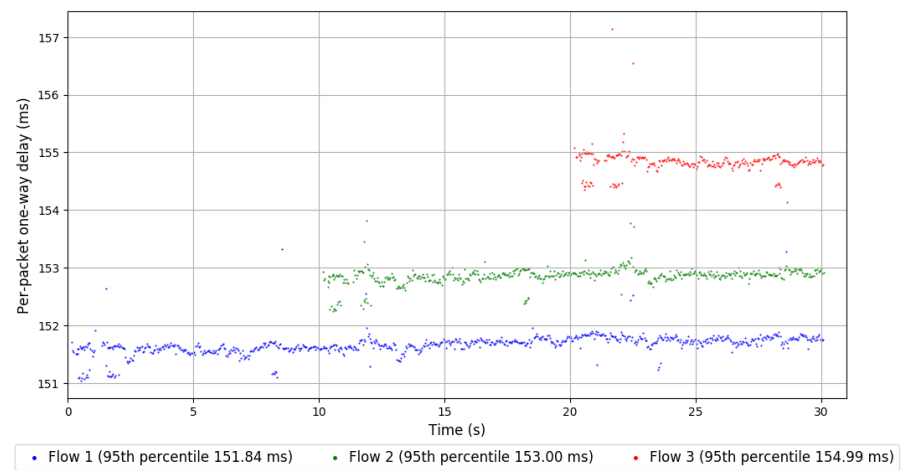
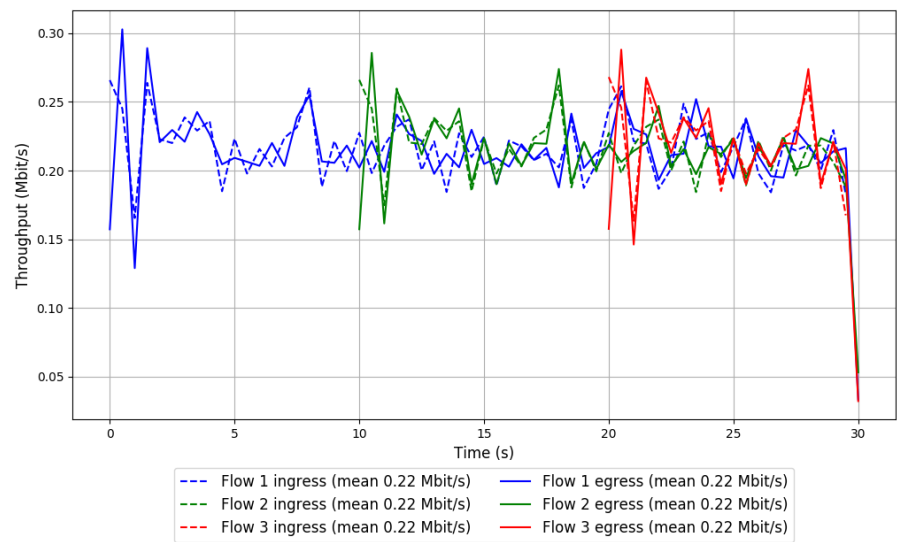
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 154.994 ms

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SReAM

Start at: 2018-04-24 22:37:21

End at: 2018-04-24 22:37:51

Local clock offset: 5.975 ms

Remote clock offset: 4.61 ms

Below is generated by plot.py at 2018-04-25 01:06:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 154.193 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 152.860 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 154.292 ms

Loss rate: 0.00%

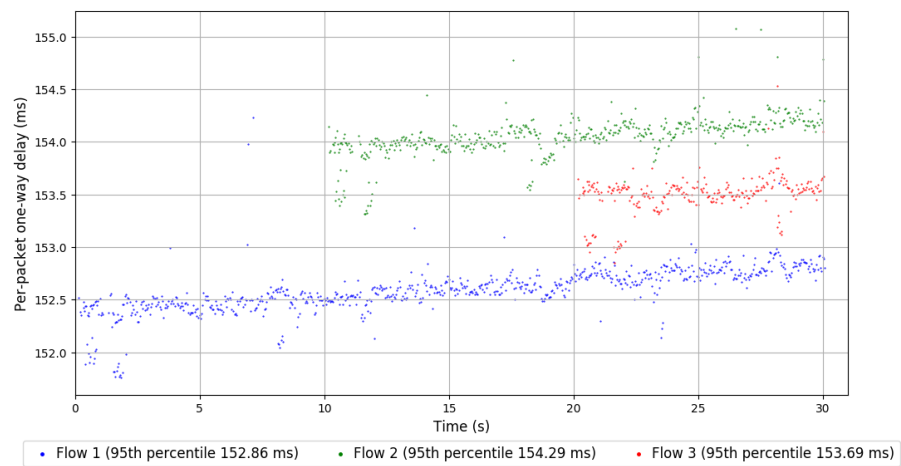
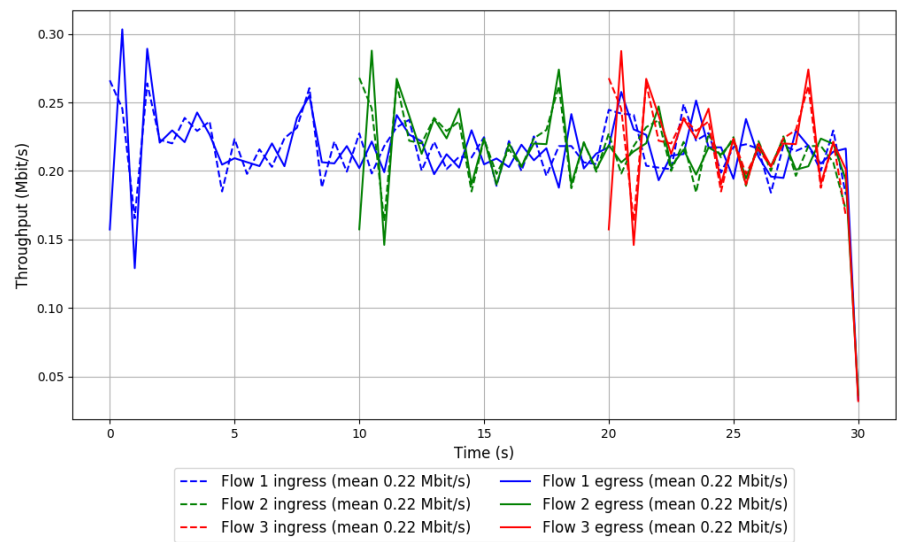
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 153.695 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link

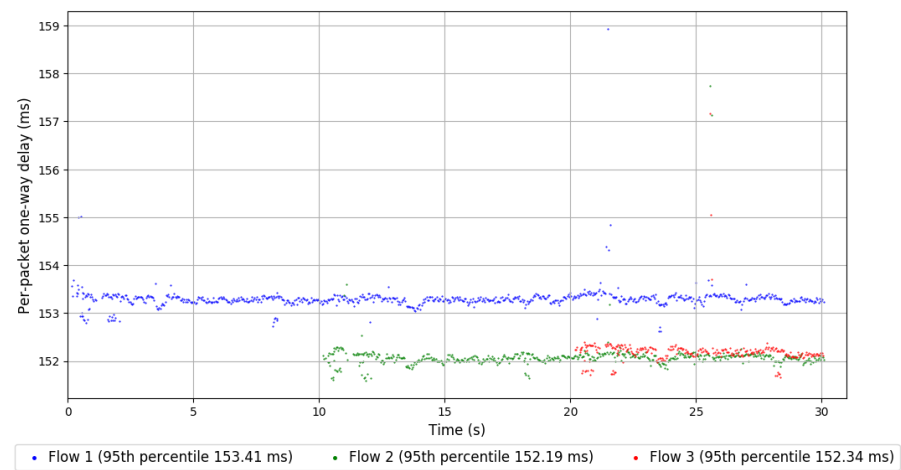
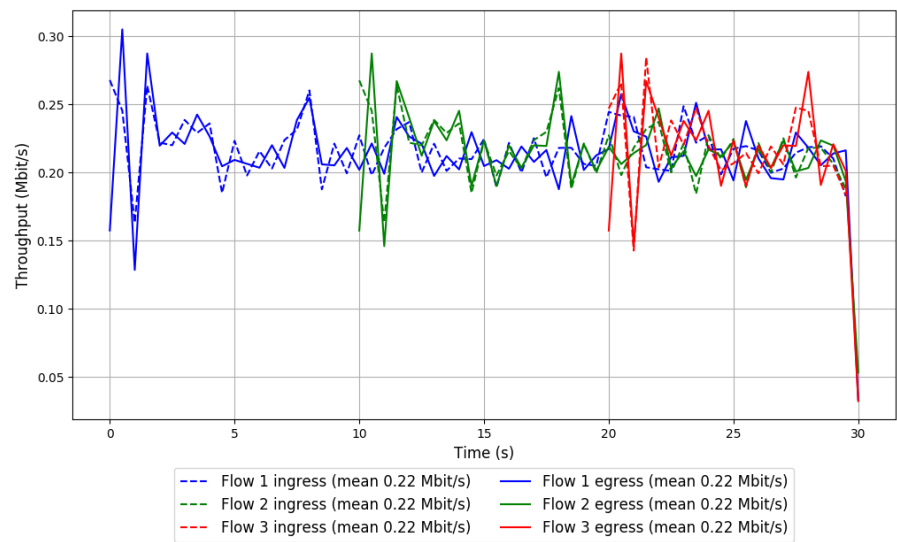


Run 6: Statistics of SReAM

Start at: 2018-04-24 23:00:33
End at: 2018-04-24 23:01:03
Local clock offset: -1.864 ms
Remote clock offset: -3.349 ms

Below is generated by plot.py at 2018-04-25 01:06:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 153.388 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 153.415 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 152.193 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 152.339 ms
Loss rate: 0.00%

Run 6: Report of SReAM — Data Link

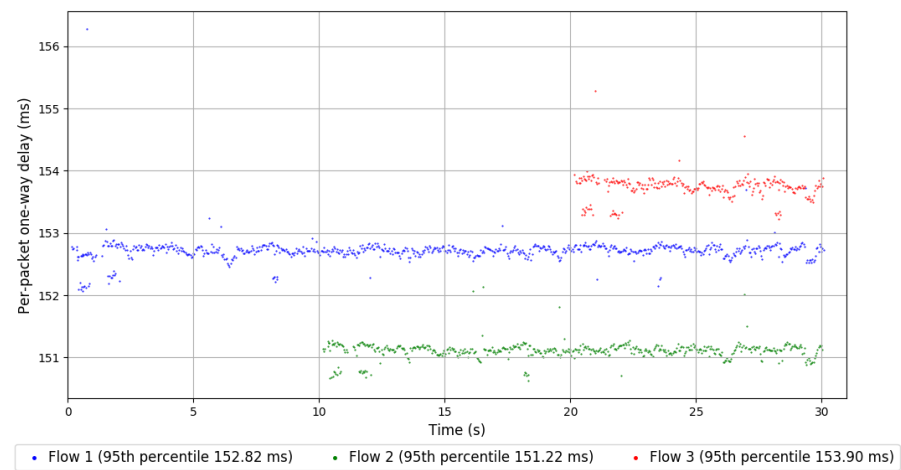
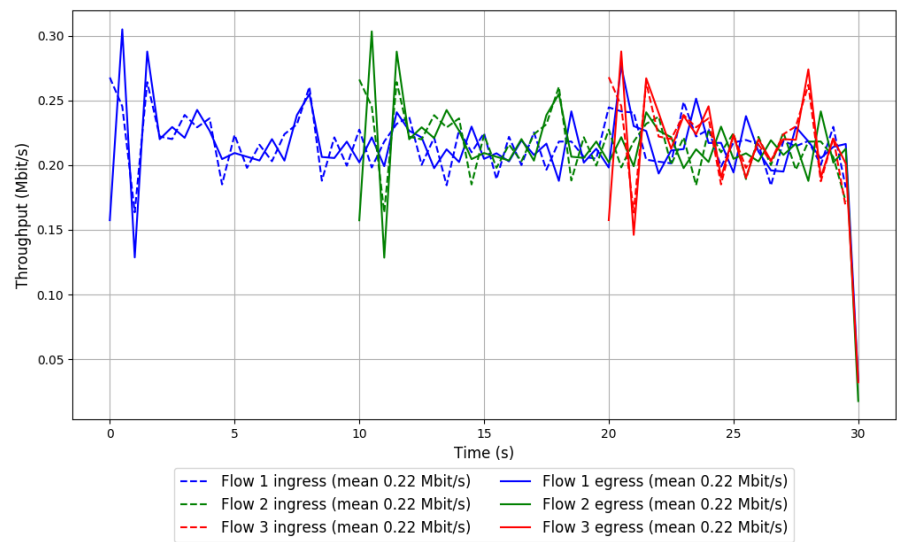


Run 7: Statistics of SReAM

Start at: 2018-04-24 23:23:21
End at: 2018-04-24 23:23:51
Local clock offset: -1.356 ms
Remote clock offset: -1.815 ms

Below is generated by plot.py at 2018-04-25 01:06:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 153.811 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 152.821 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 151.219 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 153.895 ms
Loss rate: 0.00%

Run 7: Report of SReAM — Data Link

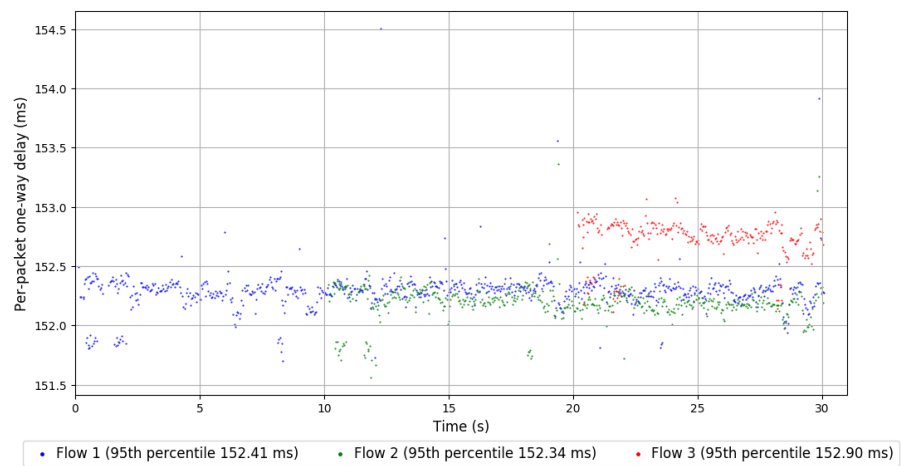
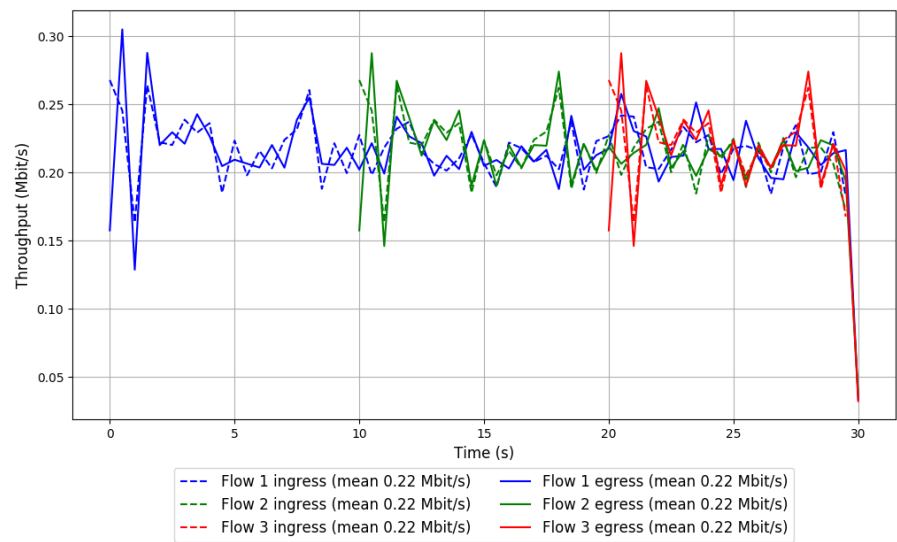


Run 8: Statistics of SReAM

Start at: 2018-04-24 23:46:46
End at: 2018-04-24 23:47:16
Local clock offset: 0.587 ms
Remote clock offset: -1.759 ms

Below is generated by plot.py at 2018-04-25 01:06:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 152.824 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 152.408 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 152.341 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 152.897 ms
Loss rate: 0.00%

Run 8: Report of SReAM — Data Link

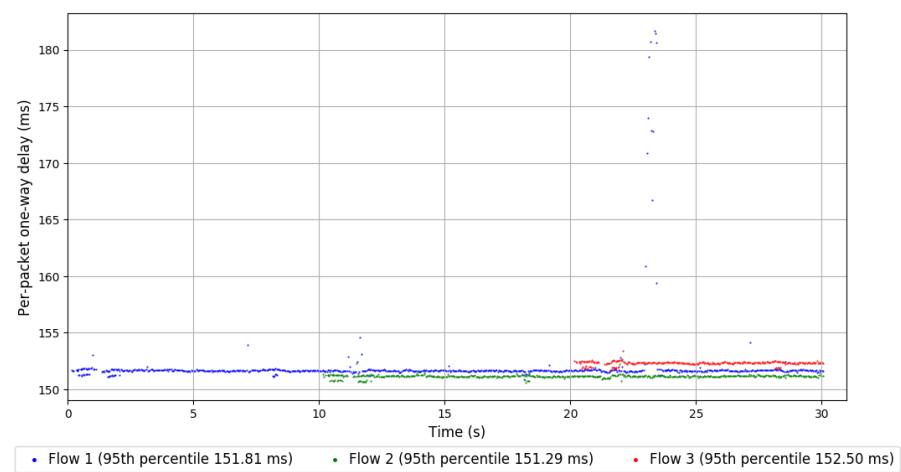
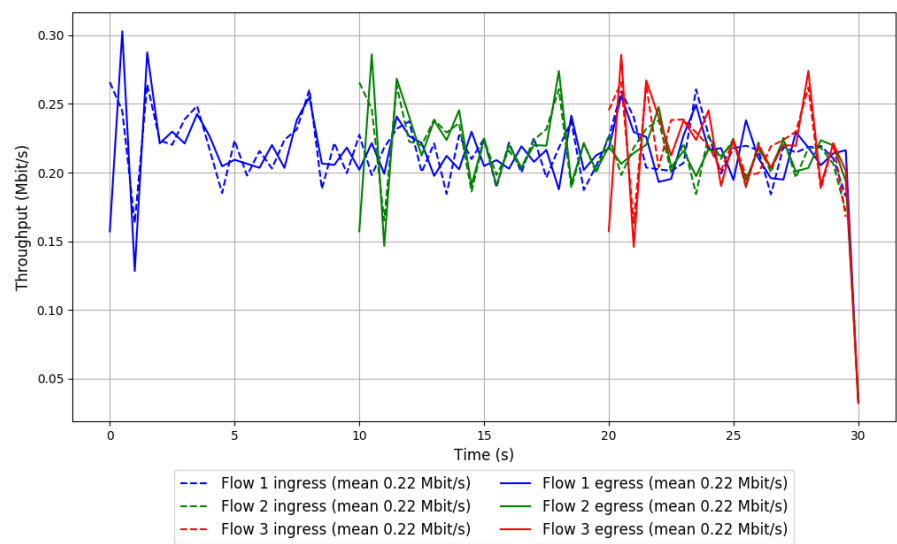


Run 9: Statistics of SReAM

Start at: 2018-04-25 00:09:31
End at: 2018-04-25 00:10:01
Local clock offset: -4.43 ms
Remote clock offset: -1.702 ms

Below is generated by plot.py at 2018-04-25 01:06:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 152.406 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 151.811 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 151.291 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 152.499 ms
Loss rate: 0.00%

Run 9: Report of SReAM — Data Link

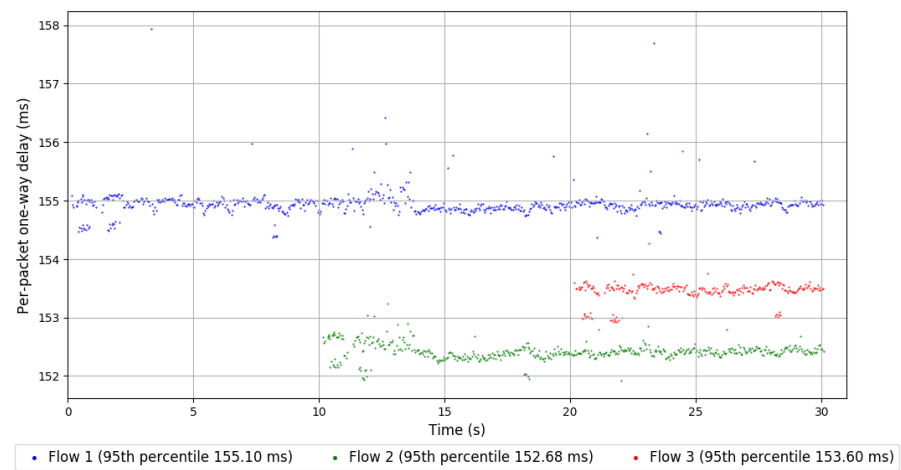
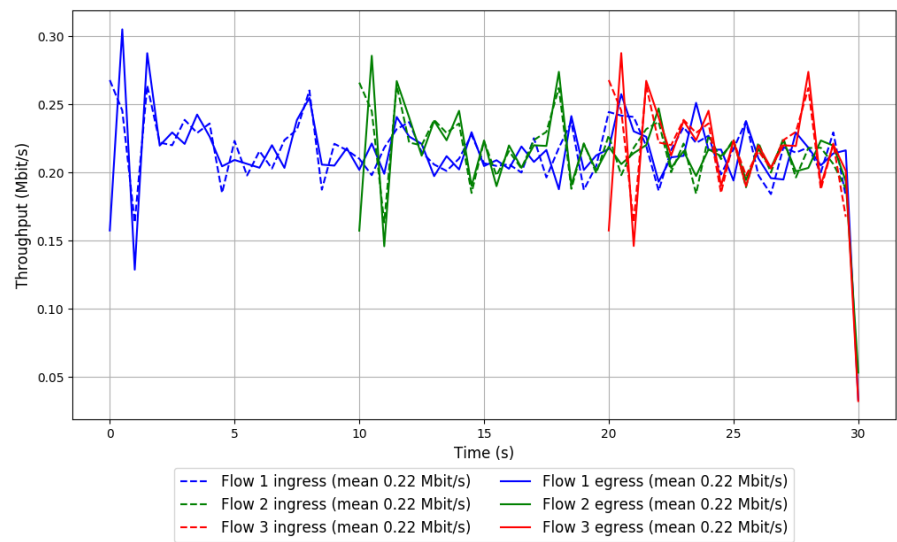


Run 10: Statistics of SReAM

Start at: 2018-04-25 00:32:15
End at: 2018-04-25 00:32:45
Local clock offset: -0.136 ms
Remote clock offset: -17.128 ms

Below is generated by plot.py at 2018-04-25 01:06:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 155.040 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 155.101 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 152.678 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 153.601 ms
Loss rate: 0.00%

Run 10: Report of SReAM — Data Link

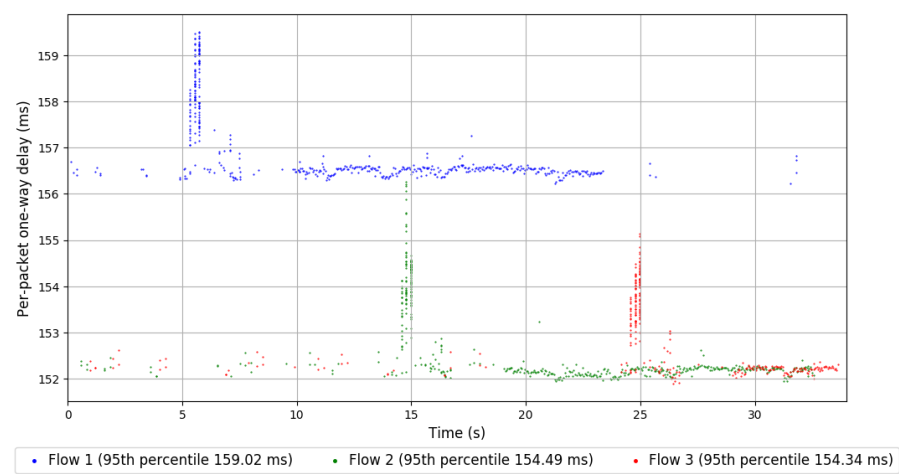
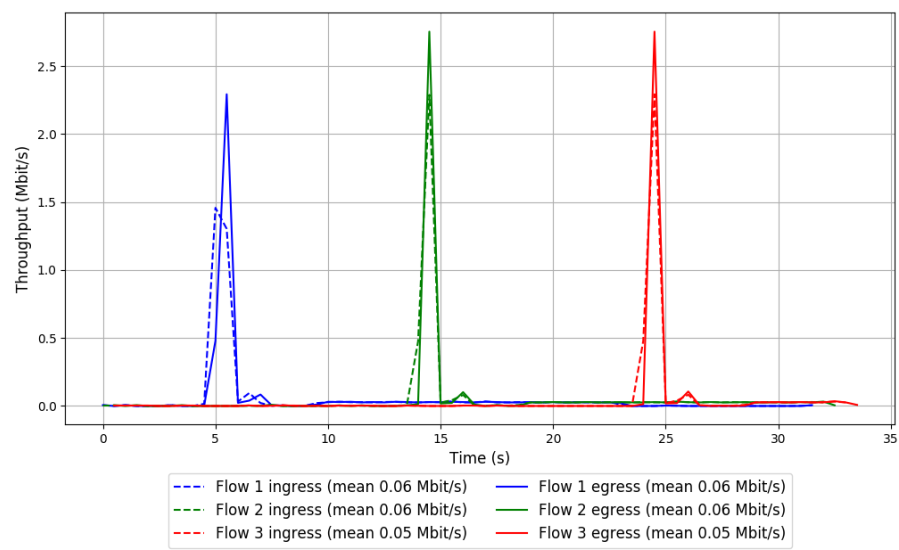


Run 1: Statistics of WebRTC media

Start at: 2018-04-24 21:01:27
End at: 2018-04-24 21:01:57
Local clock offset: 3.91 ms
Remote clock offset: -0.458 ms

Below is generated by plot.py at 2018-04-25 01:06:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 158.124 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 159.023 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 154.489 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 154.344 ms
Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link

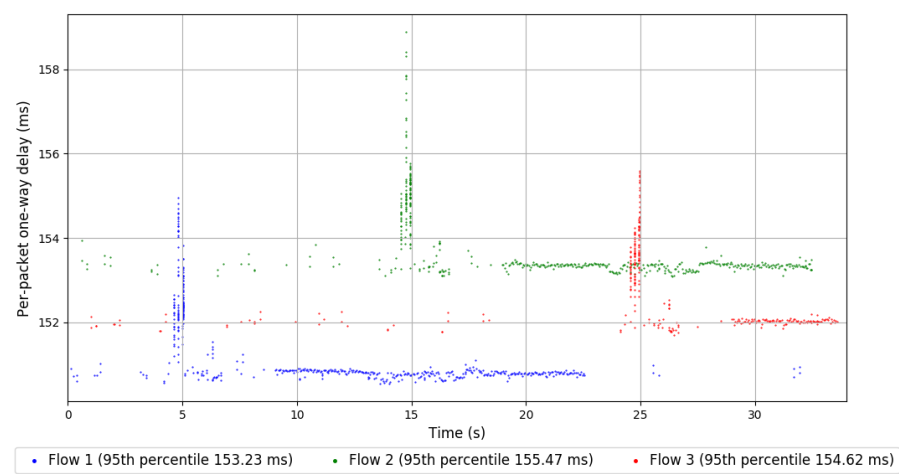
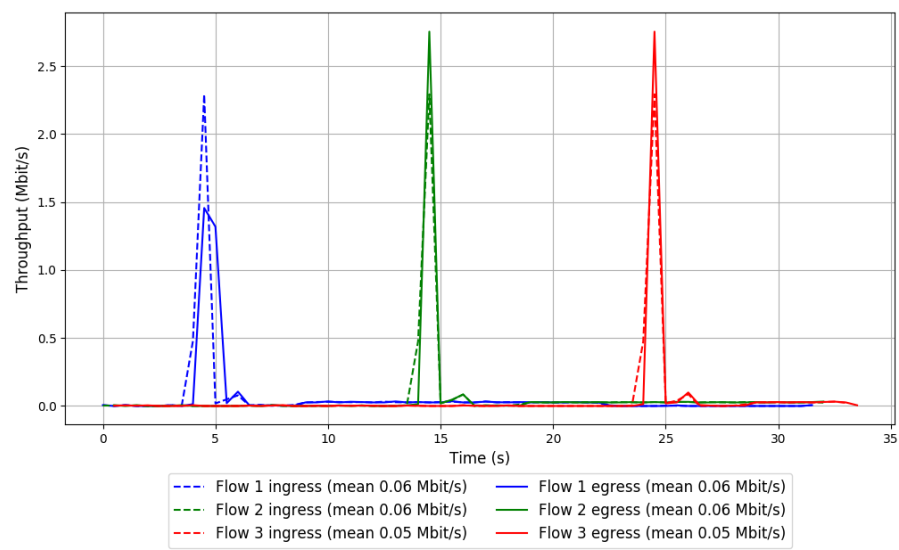


Run 2: Statistics of WebRTC media

Start at: 2018-04-24 21:24:39
End at: 2018-04-24 21:25:09
Local clock offset: 2.408 ms
Remote clock offset: -0.635 ms

Below is generated by plot.py at 2018-04-25 01:06:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 155.022 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 153.234 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 155.471 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 154.622 ms
Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-04-24 21:47:36

End at: 2018-04-24 21:48:06

Local clock offset: -3.437 ms

Remote clock offset: 3.53 ms

Below is generated by plot.py at 2018-04-25 01:06:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.16 Mbit/s

95th percentile per-packet one-way delay: 157.588 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 154.899 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 153.838 ms

Loss rate: 0.00%

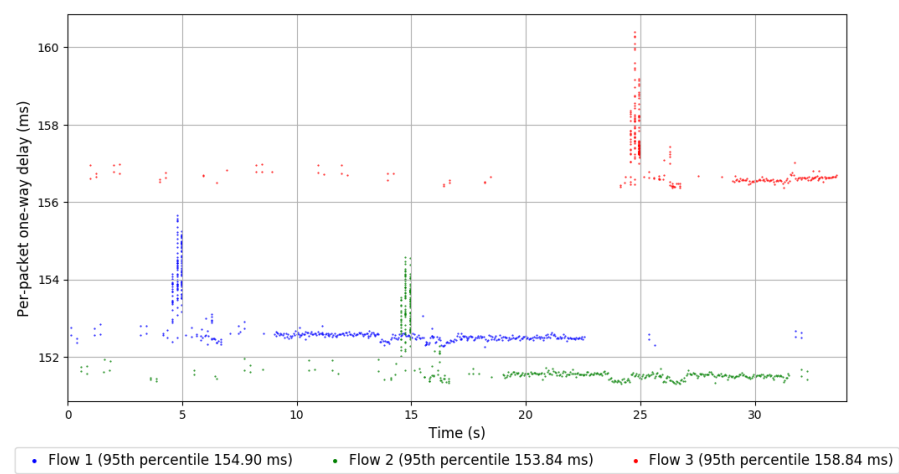
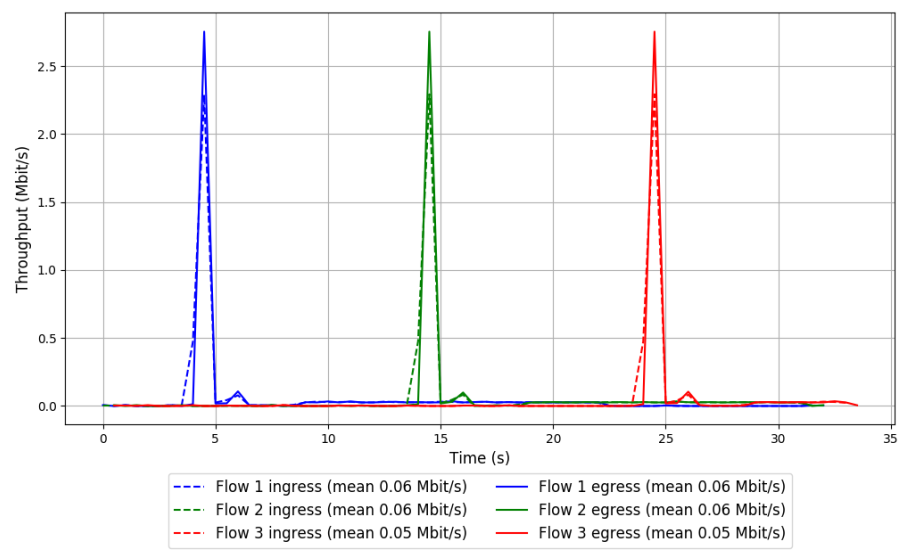
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 158.841 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-04-24 22:10:36

End at: 2018-04-24 22:11:06

Local clock offset: -3.457 ms

Remote clock offset: 4.833 ms

Below is generated by plot.py at 2018-04-25 01:06:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.16 Mbit/s

95th percentile per-packet one-way delay: 155.327 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 155.229 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 155.033 ms

Loss rate: 0.00%

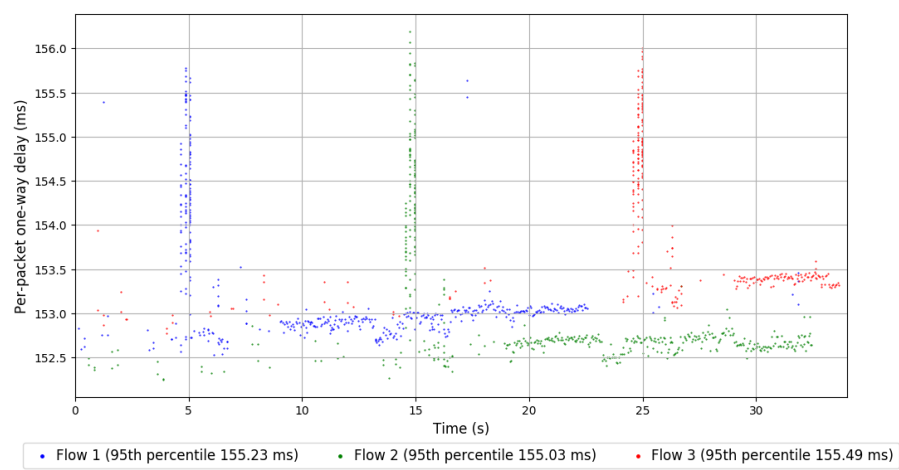
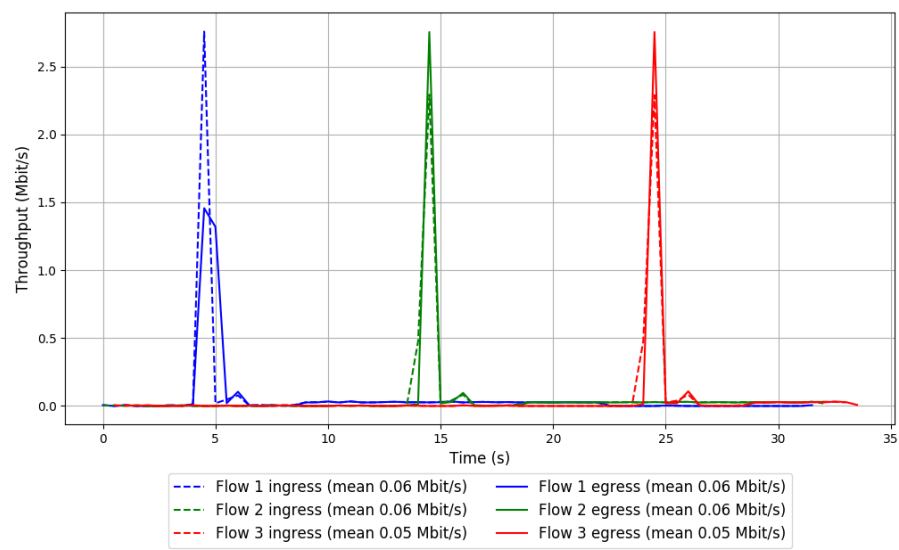
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 155.486 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-04-24 22:33:25

End at: 2018-04-24 22:33:55

Local clock offset: 5.277 ms

Remote clock offset: 5.768 ms

Below is generated by plot.py at 2018-04-25 01:06:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.16 Mbit/s

95th percentile per-packet one-way delay: 155.287 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 154.627 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 155.650 ms

Loss rate: 0.00%

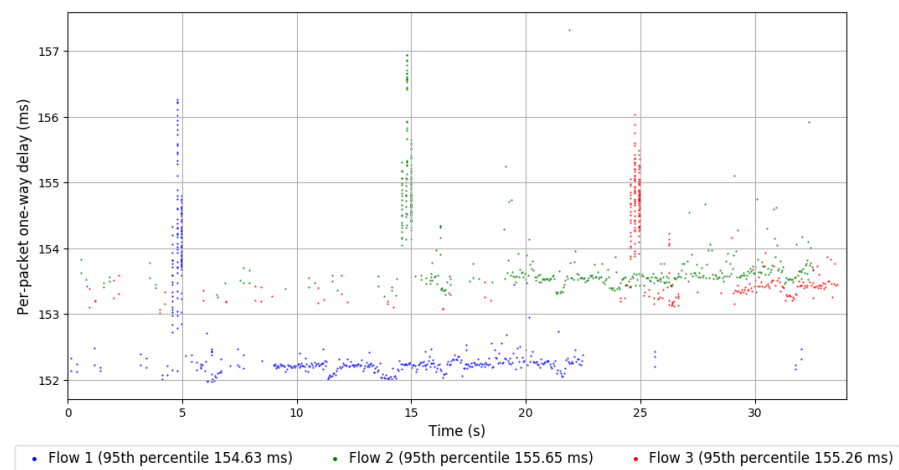
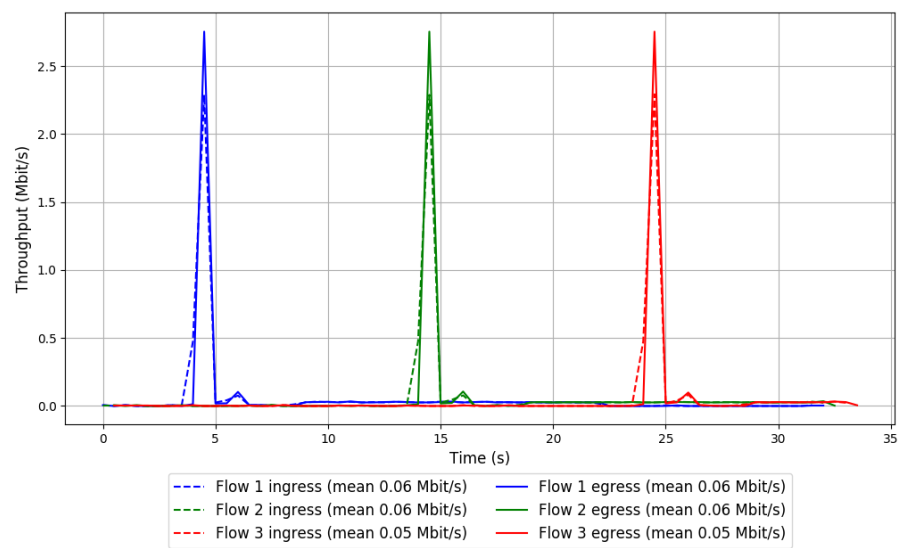
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 155.262 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

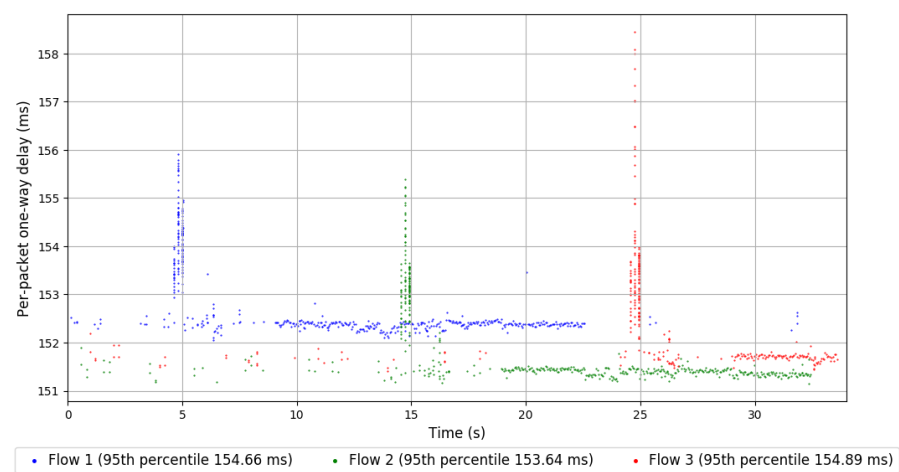
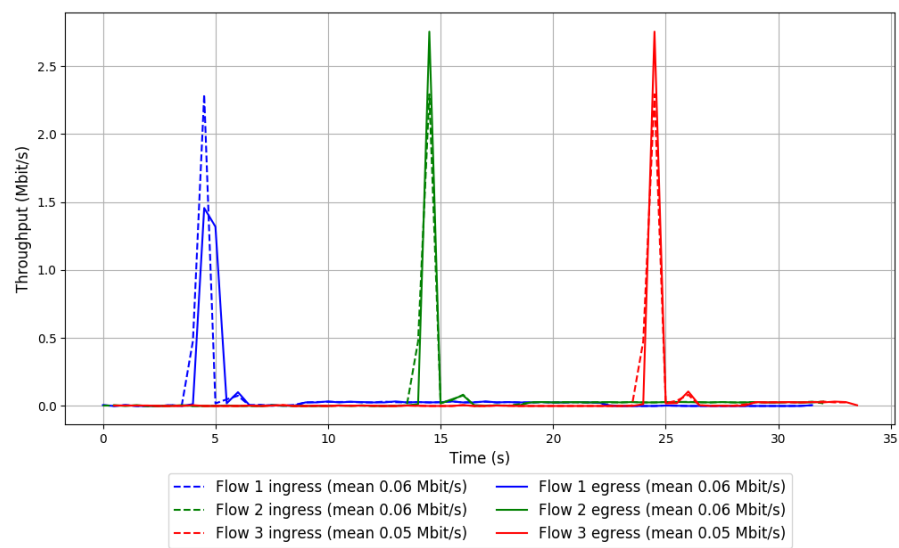


Run 6: Statistics of WebRTC media

Start at: 2018-04-24 22:56:38
End at: 2018-04-24 22:57:08
Local clock offset: -0.977 ms
Remote clock offset: -2.687 ms

Below is generated by plot.py at 2018-04-25 01:06:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 154.398 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 154.656 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 153.639 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 154.888 ms
Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link

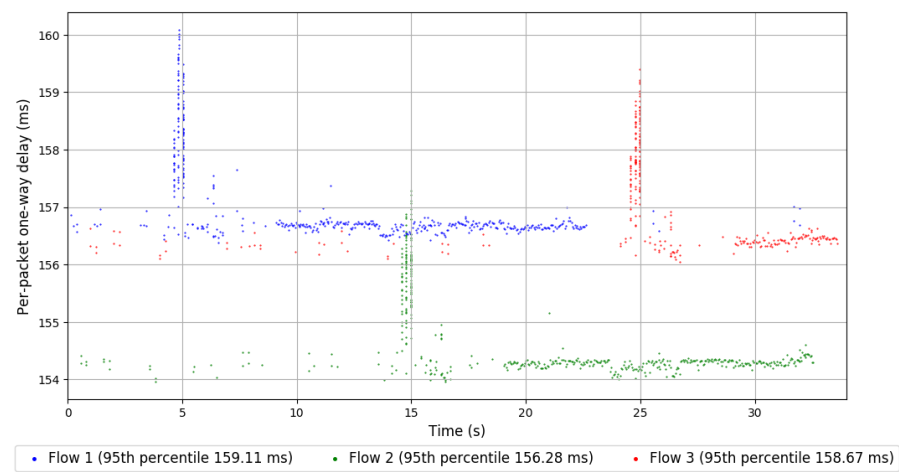
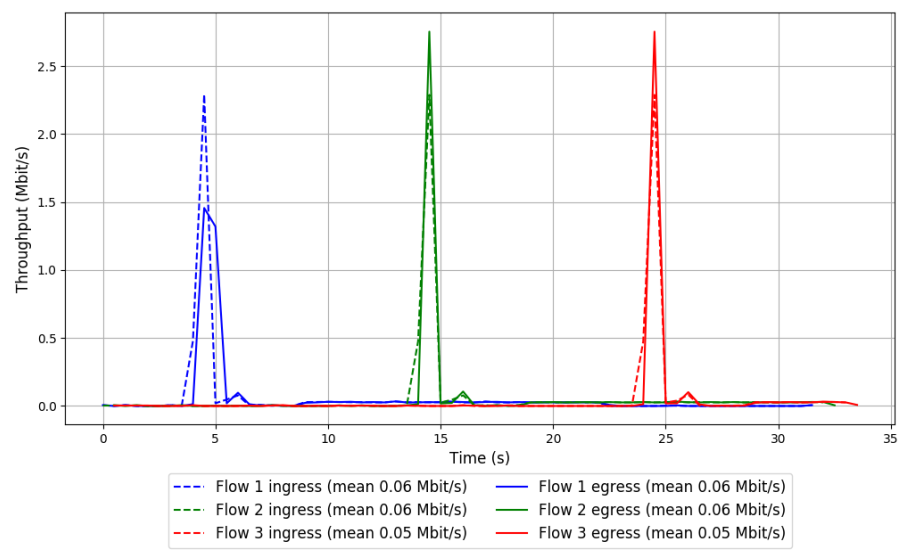


Run 7: Statistics of WebRTC media

Start at: 2018-04-24 23:19:25
End at: 2018-04-24 23:19:55
Local clock offset: -2.229 ms
Remote clock offset: -2.181 ms

Below is generated by plot.py at 2018-04-25 01:06:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 158.574 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 159.112 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 156.285 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 158.666 ms
Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

/home/ubuntu/pantheon_data/2018-04-24T20-47-AWS-Korea-to-China-10-runs-3-flows/webrtc_stats.

Run 8: Report of WebRTC media — Data Link

Figure is missing

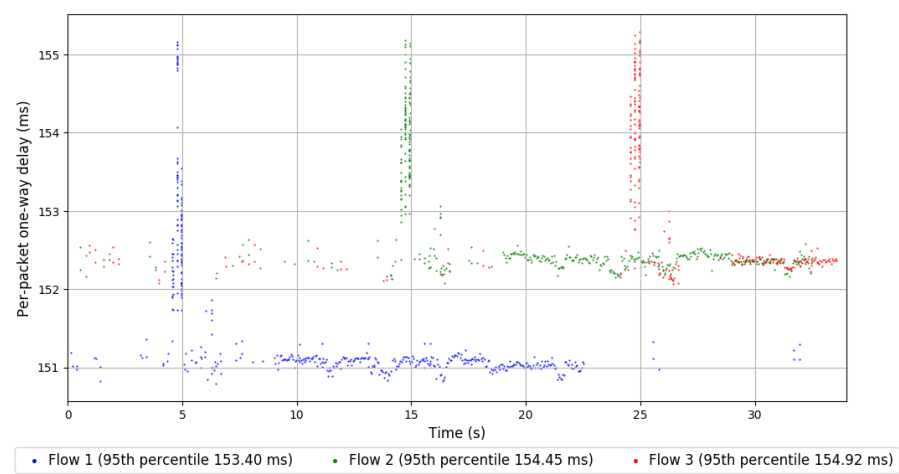
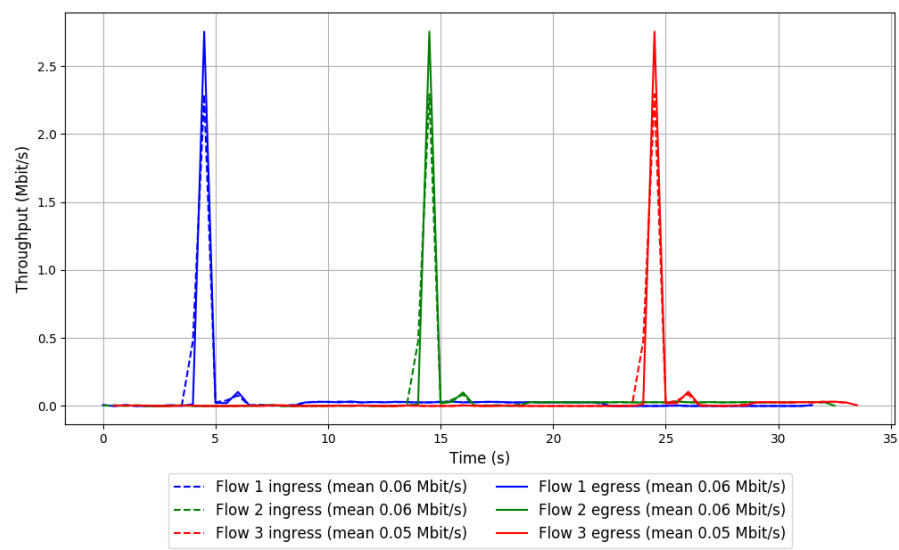
Figure is missing

Run 9: Statistics of WebRTC media

Start at: 2018-04-25 00:05:35
End at: 2018-04-25 00:06:05
Local clock offset: -3.801 ms
Remote clock offset: -1.664 ms

Below is generated by plot.py at 2018-04-25 01:06:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 154.670 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 153.404 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 154.452 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 154.919 ms
Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link

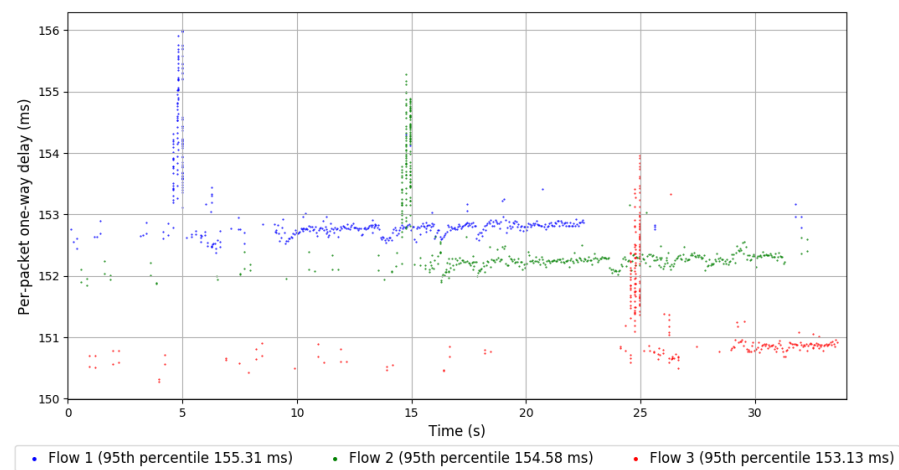
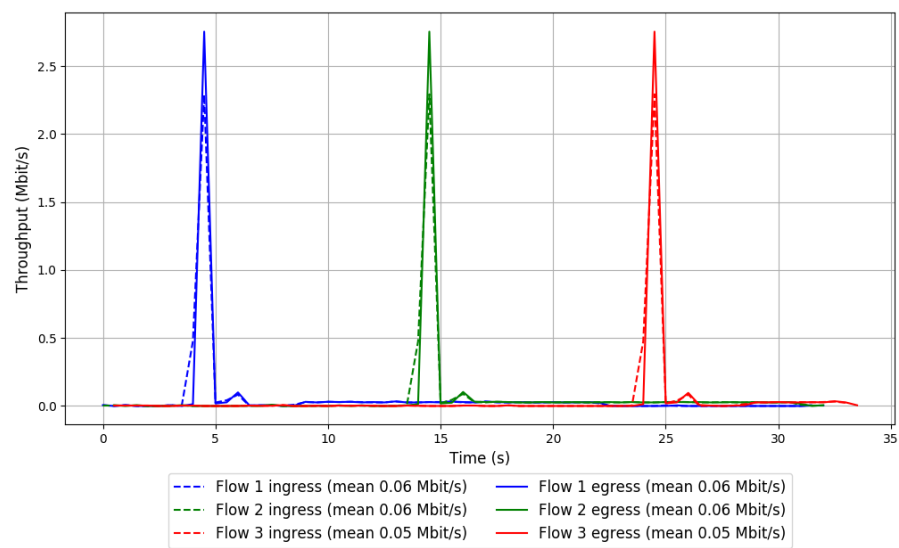


Run 10: Statistics of WebRTC media

Start at: 2018-04-25 00:28:19
End at: 2018-04-25 00:28:49
Local clock offset: -2.234 ms
Remote clock offset: -17.231 ms

Below is generated by plot.py at 2018-04-25 01:06:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 154.641 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 155.312 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 154.582 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 153.130 ms
Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

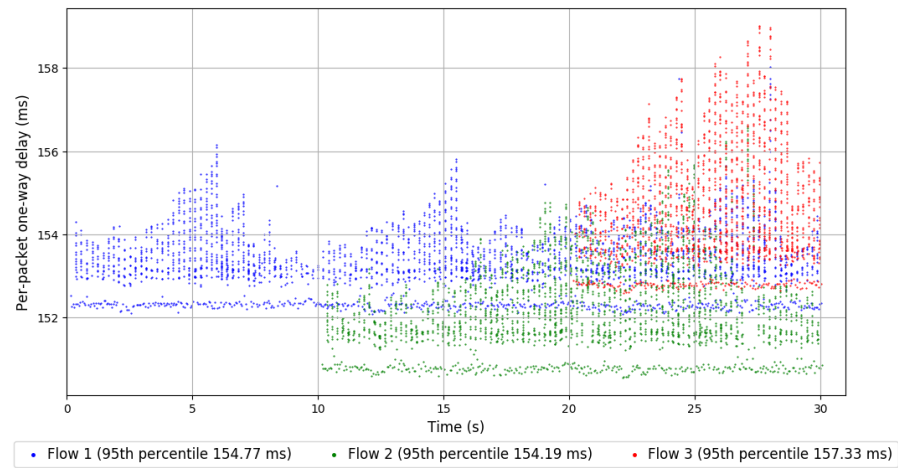
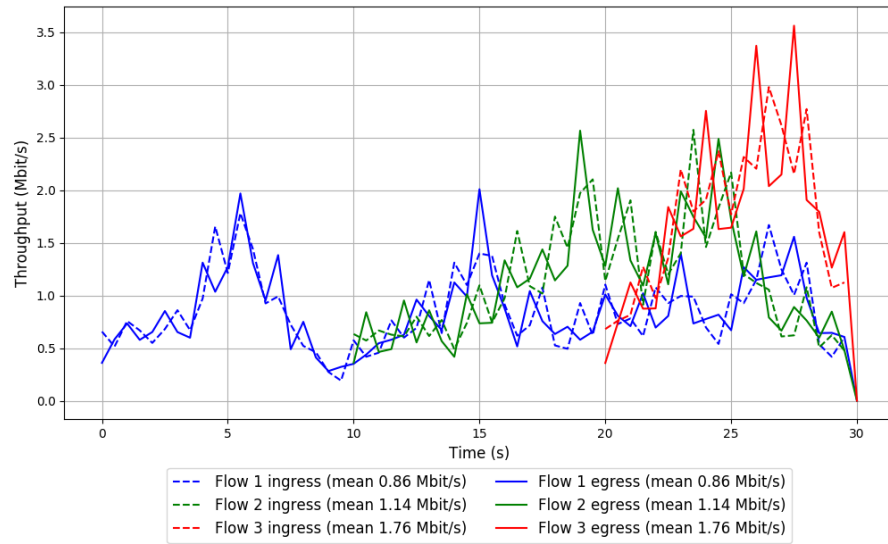


Run 1: Statistics of Sprout

Start at: 2018-04-24 20:54:54
End at: 2018-04-24 20:55:24
Local clock offset: 4.124 ms
Remote clock offset: -0.527 ms

Below is generated by plot.py at 2018-04-25 01:06:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 2.20 Mbit/s
95th percentile per-packet one-way delay: 156.097 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.86 Mbit/s
95th percentile per-packet one-way delay: 154.769 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.14 Mbit/s
95th percentile per-packet one-way delay: 154.185 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 1.76 Mbit/s
95th percentile per-packet one-way delay: 157.334 ms
Loss rate: 0.00%

Run 1: Report of Sprout — Data Link

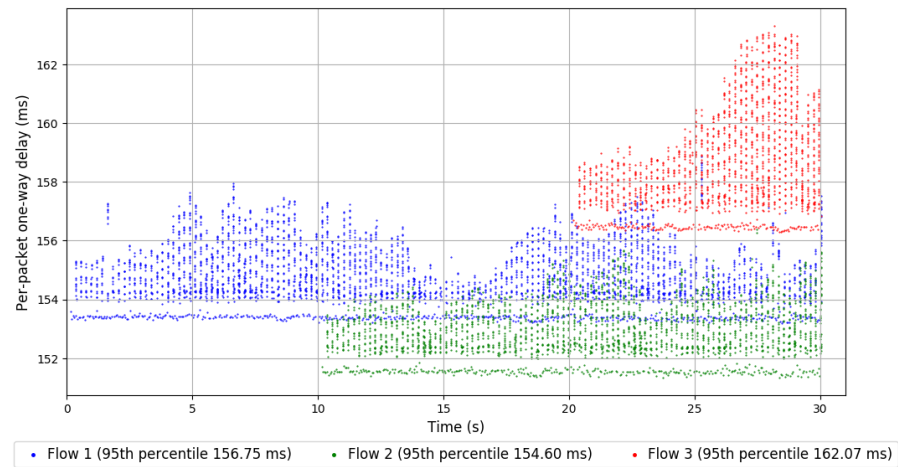
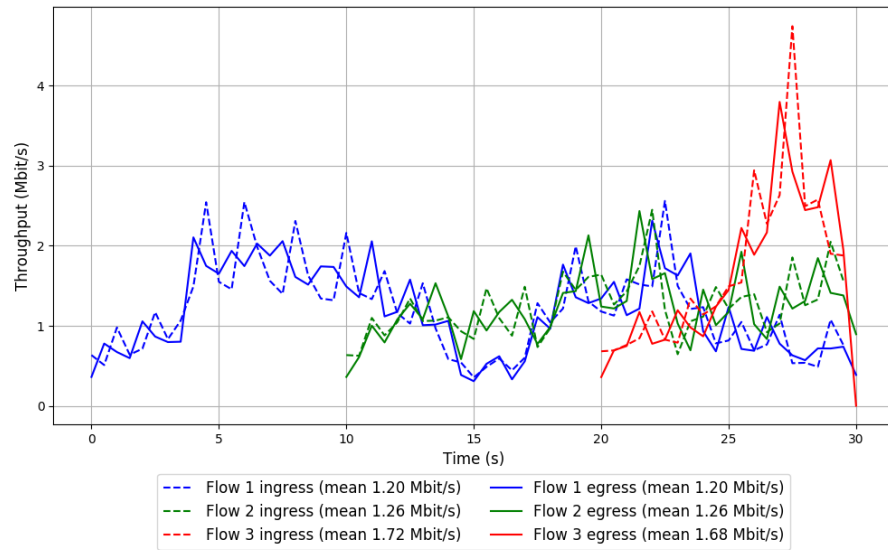


Run 2: Statistics of Sprout

Start at: 2018-04-24 21:18:04
End at: 2018-04-24 21:18:34
Local clock offset: 2.566 ms
Remote clock offset: -0.559 ms

```
# Below is generated by plot.py at 2018-04-25 01:06:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 2.59 Mbit/s
95th percentile per-packet one-way delay: 159.933 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 1.20 Mbit/s
95th percentile per-packet one-way delay: 156.753 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.26 Mbit/s
95th percentile per-packet one-way delay: 154.596 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 1.68 Mbit/s
95th percentile per-packet one-way delay: 162.069 ms
Loss rate: 2.14%
```

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-04-24 21:41:02

End at: 2018-04-24 21:41:32

Local clock offset: -1.78 ms

Remote clock offset: 2.803 ms

Below is generated by plot.py at 2018-04-25 01:06:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 1.62 Mbit/s

95th percentile per-packet one-way delay: 156.045 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.67 Mbit/s

95th percentile per-packet one-way delay: 155.699 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.06 Mbit/s

95th percentile per-packet one-way delay: 156.500 ms

Loss rate: 0.00%

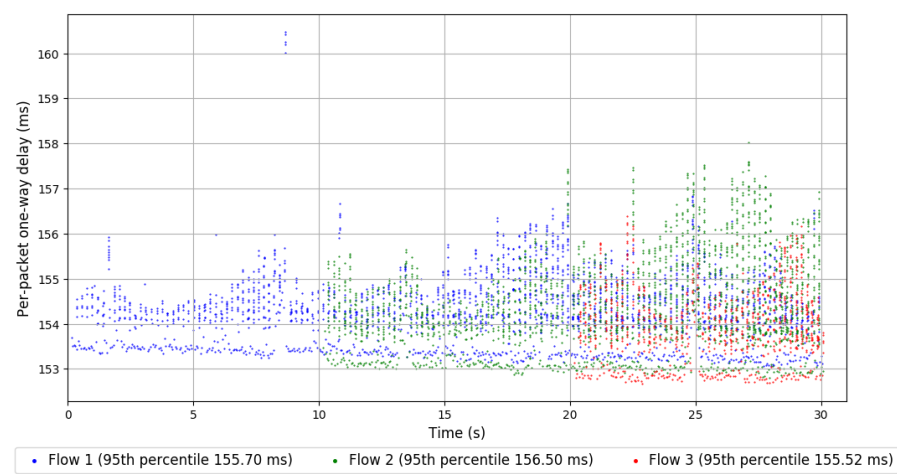
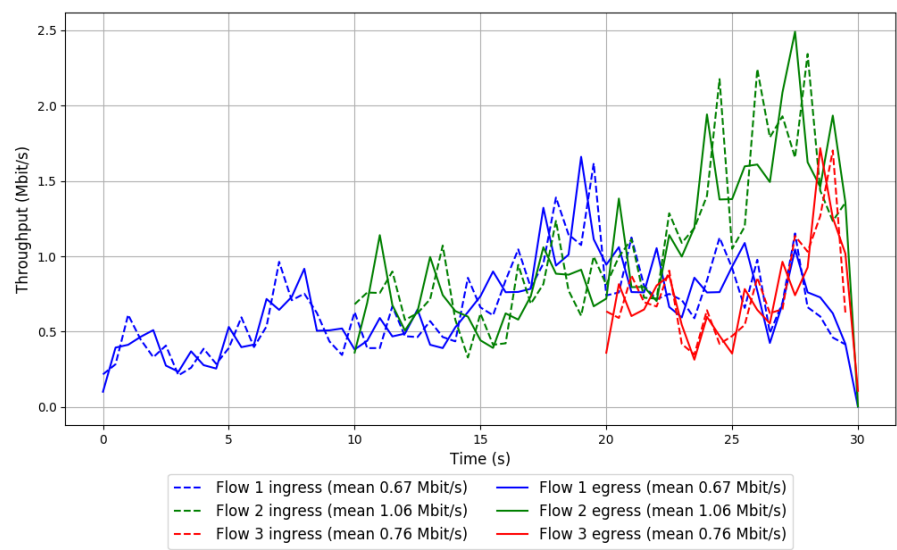
-- Flow 3:

Average throughput: 0.76 Mbit/s

95th percentile per-packet one-way delay: 155.516 ms

Loss rate: 0.00%

Run 3: Report of Sprout — Data Link

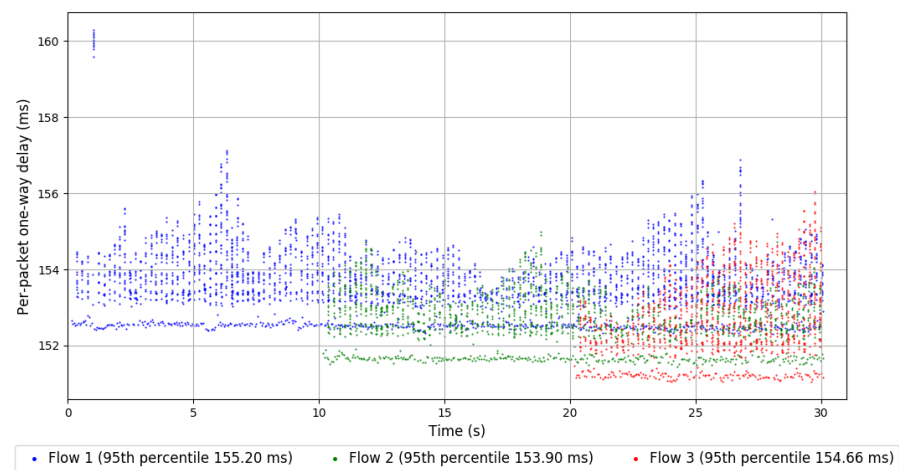
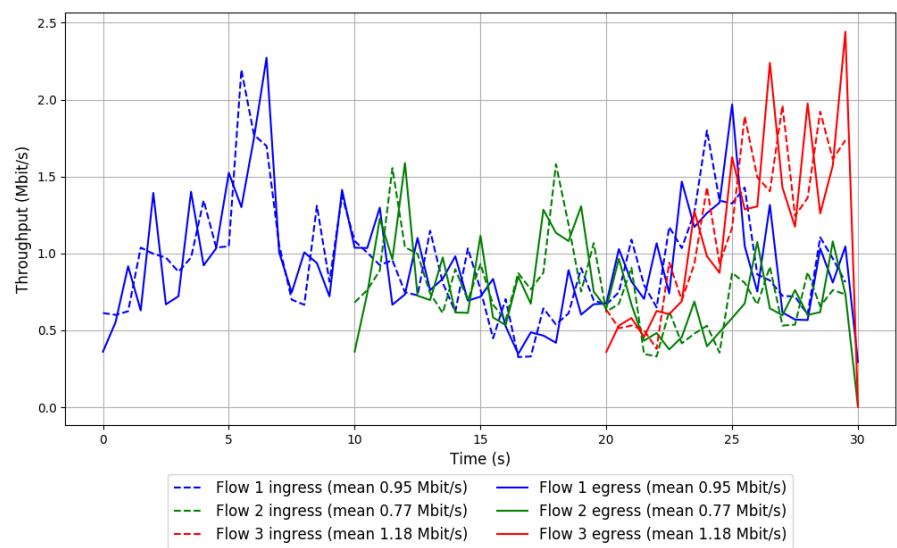


Run 4: Statistics of Sprout

Start at: 2018-04-24 22:04:03
End at: 2018-04-24 22:04:33
Local clock offset: -5.815 ms
Remote clock offset: 4.573 ms

```
# Below is generated by plot.py at 2018-04-25 01:06:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.85 Mbit/s
95th percentile per-packet one-way delay: 154.905 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.95 Mbit/s
95th percentile per-packet one-way delay: 155.196 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.77 Mbit/s
95th percentile per-packet one-way delay: 153.897 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 1.18 Mbit/s
95th percentile per-packet one-way delay: 154.656 ms
Loss rate: 0.00%
```

Run 4: Report of Sprout — Data Link

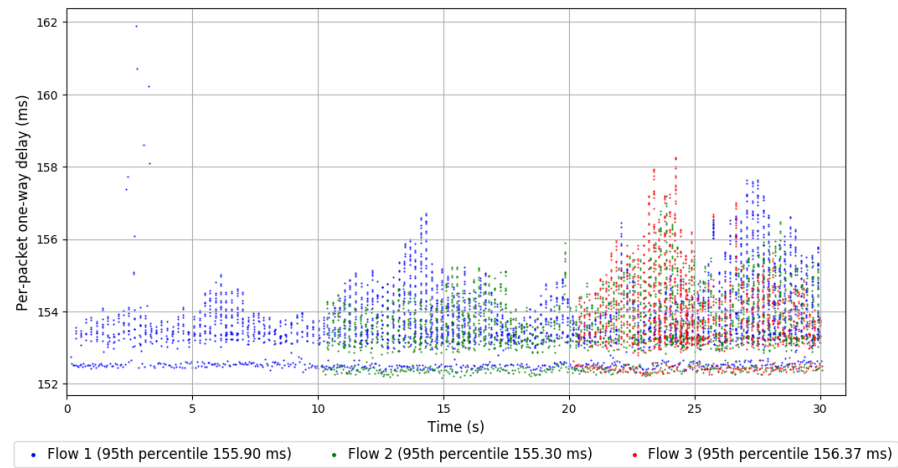
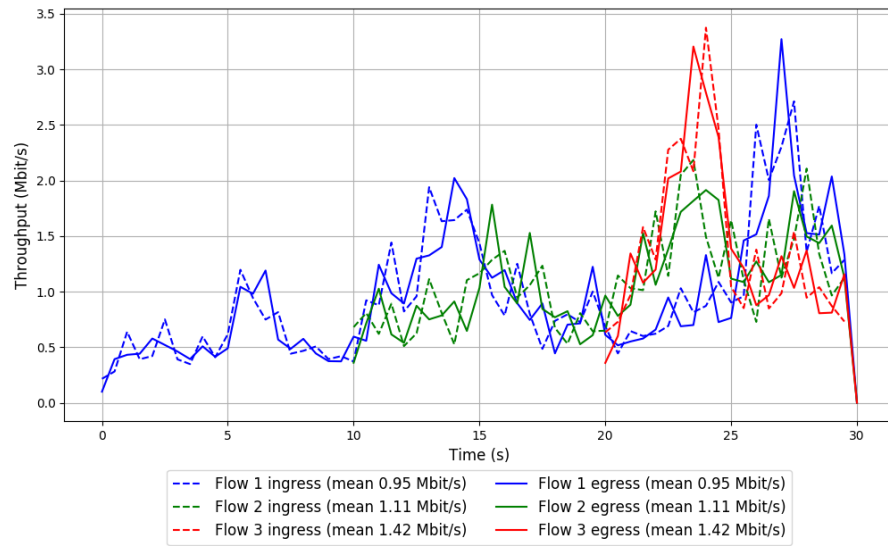


Run 5: Statistics of Sprout

Start at: 2018-04-24 22:26:51
End at: 2018-04-24 22:27:21
Local clock offset: 3.985 ms
Remote clock offset: 5.421 ms

```
# Below is generated by plot.py at 2018-04-25 01:06:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 2.16 Mbit/s
95th percentile per-packet one-way delay: 155.815 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.95 Mbit/s
95th percentile per-packet one-way delay: 155.904 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.11 Mbit/s
95th percentile per-packet one-way delay: 155.298 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 1.42 Mbit/s
95th percentile per-packet one-way delay: 156.369 ms
Loss rate: 0.00%
```

Run 5: Report of Sprout — Data Link

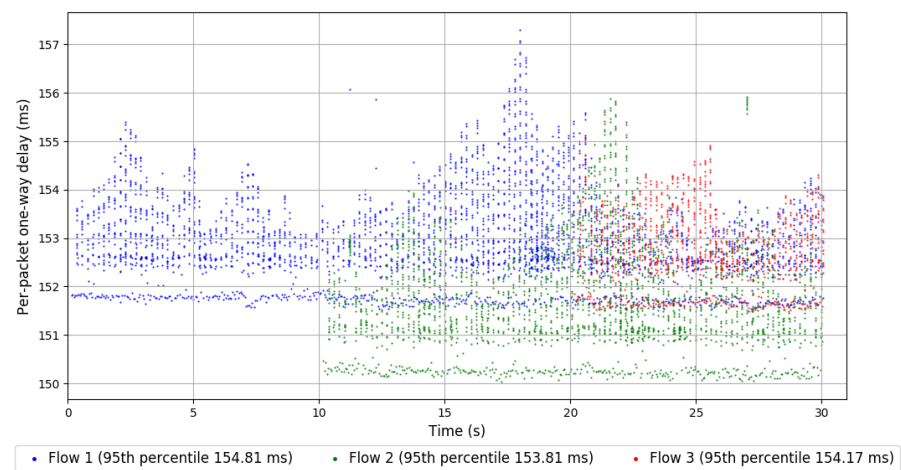
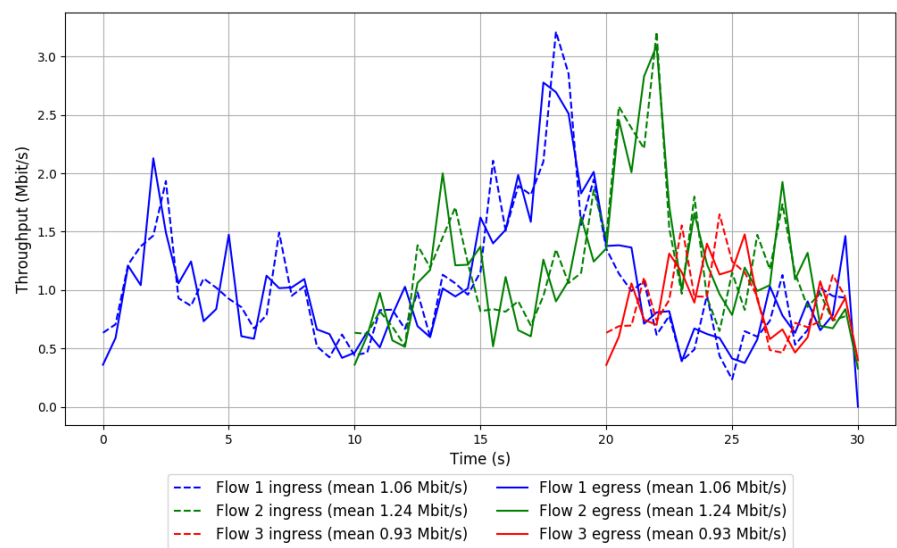


Run 6: Statistics of Sprout

Start at: 2018-04-24 22:50:04
End at: 2018-04-24 22:50:34
Local clock offset: 0.985 ms
Remote clock offset: -1.317 ms

Below is generated by plot.py at 2018-04-25 01:06:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 2.19 Mbit/s
95th percentile per-packet one-way delay: 154.504 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.06 Mbit/s
95th percentile per-packet one-way delay: 154.813 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.24 Mbit/s
95th percentile per-packet one-way delay: 153.806 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.93 Mbit/s
95th percentile per-packet one-way delay: 154.168 ms
Loss rate: 0.00%

Run 6: Report of Sprout — Data Link

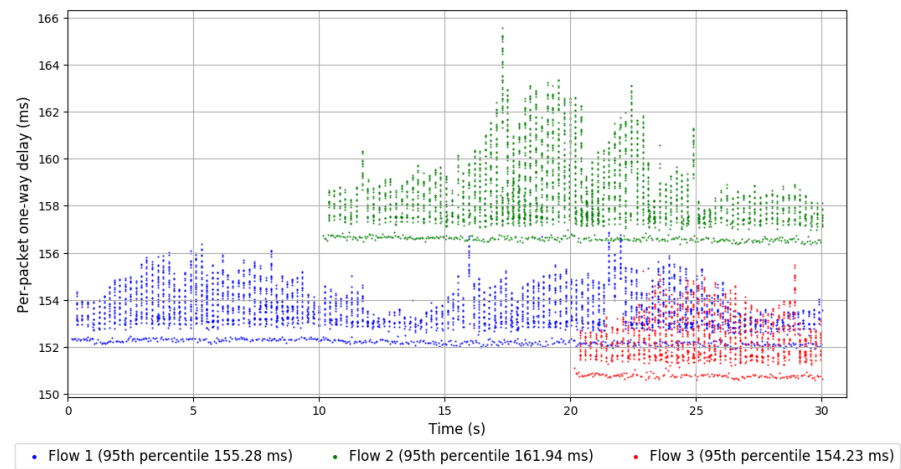
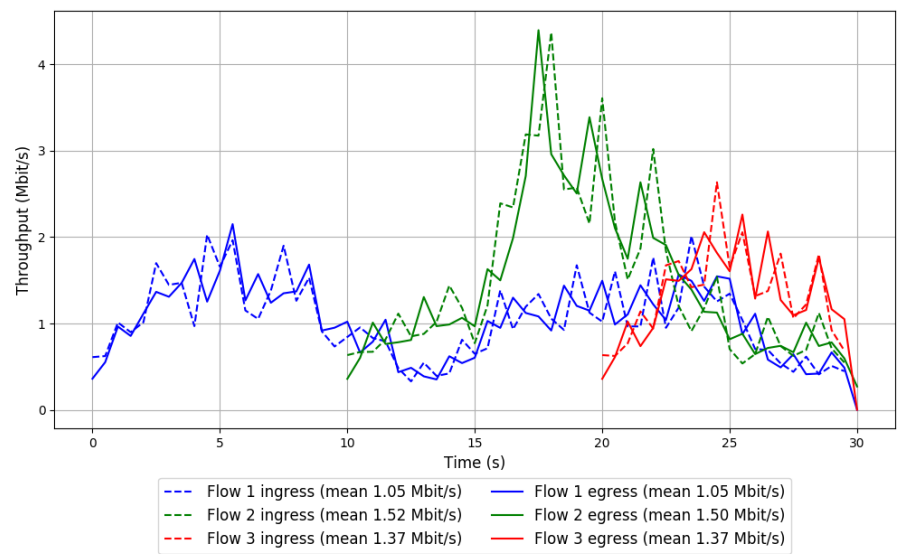


Run 7: Statistics of Sprout

Start at: 2018-04-24 23:12:51
End at: 2018-04-24 23:13:21
Local clock offset: -2.941 ms
Remote clock offset: -3.592 ms

Below is generated by plot.py at 2018-04-25 01:06:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 2.49 Mbit/s
95th percentile per-packet one-way delay: 160.694 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 1.05 Mbit/s
95th percentile per-packet one-way delay: 155.284 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.50 Mbit/s
95th percentile per-packet one-way delay: 161.938 ms
Loss rate: 1.17%
-- Flow 3:
Average throughput: 1.37 Mbit/s
95th percentile per-packet one-way delay: 154.233 ms
Loss rate: 0.00%

Run 7: Report of Sprout — Data Link

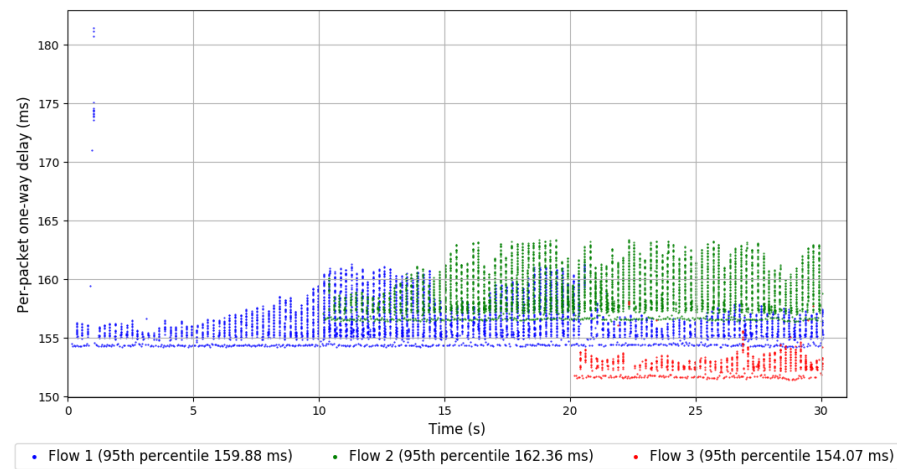
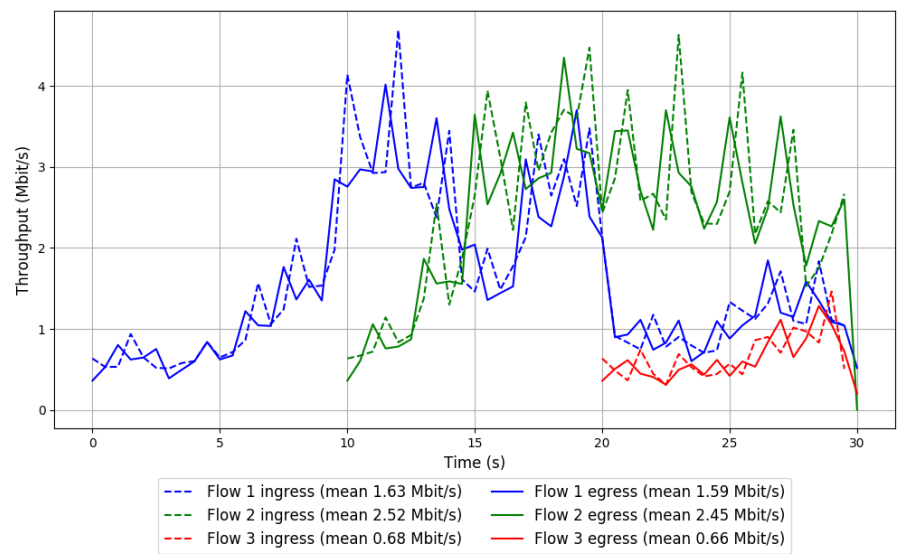


Run 8: Statistics of Sprout

Start at: 2018-04-24 23:35:39
End at: 2018-04-24 23:36:09
Local clock offset: -0.131 ms
Remote clock offset: -1.83 ms

```
# Below is generated by plot.py at 2018-04-25 01:06:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.43 Mbit/s
95th percentile per-packet one-way delay: 161.665 ms
Loss rate: 2.61%
-- Flow 1:
Average throughput: 1.59 Mbit/s
95th percentile per-packet one-way delay: 159.880 ms
Loss rate: 2.36%
-- Flow 2:
Average throughput: 2.45 Mbit/s
95th percentile per-packet one-way delay: 162.361 ms
Loss rate: 2.93%
-- Flow 3:
Average throughput: 0.66 Mbit/s
95th percentile per-packet one-way delay: 154.075 ms
Loss rate: 2.03%
```

Run 8: Report of Sprout — Data Link

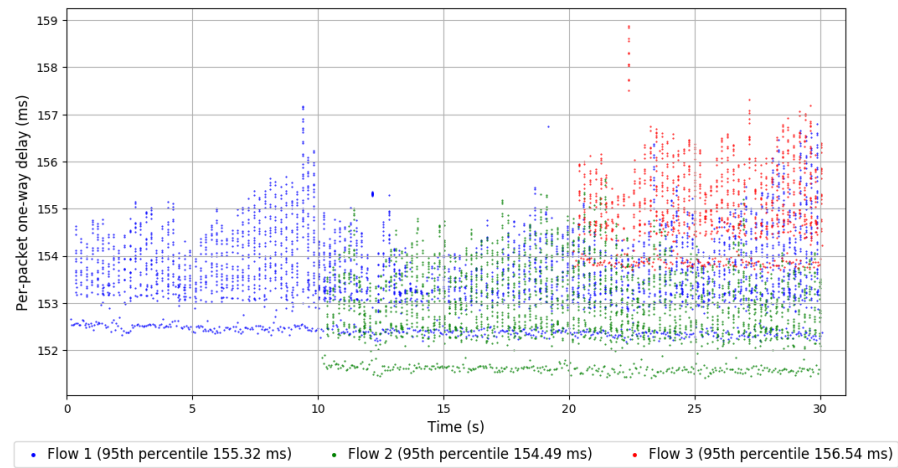
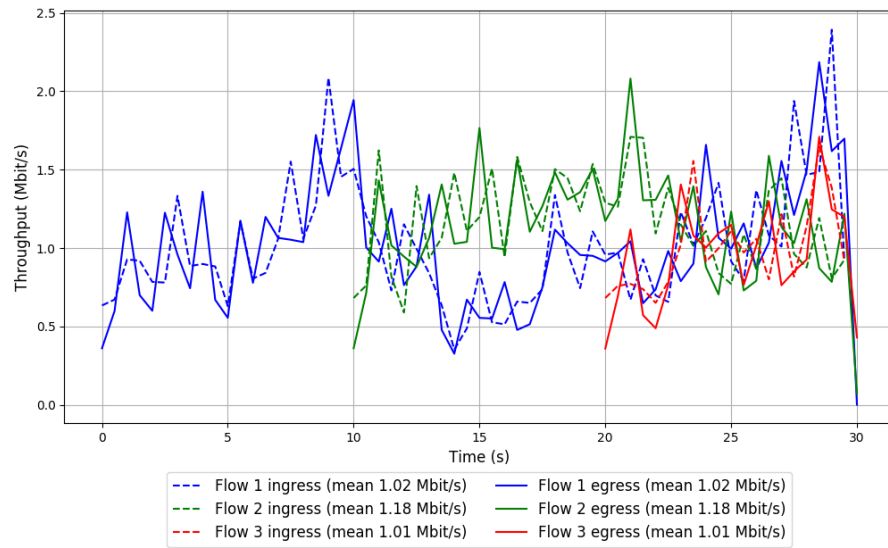


Run 9: Statistics of Sprout

Start at: 2018-04-24 23:59:01
End at: 2018-04-24 23:59:31
Local clock offset: -2.645 ms
Remote clock offset: -1.732 ms

Below is generated by plot.py at 2018-04-25 01:06:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 2.13 Mbit/s
95th percentile per-packet one-way delay: 155.738 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.02 Mbit/s
95th percentile per-packet one-way delay: 155.316 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.18 Mbit/s
95th percentile per-packet one-way delay: 154.494 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 1.01 Mbit/s
95th percentile per-packet one-way delay: 156.539 ms
Loss rate: 0.00%

Run 9: Report of Sprout — Data Link

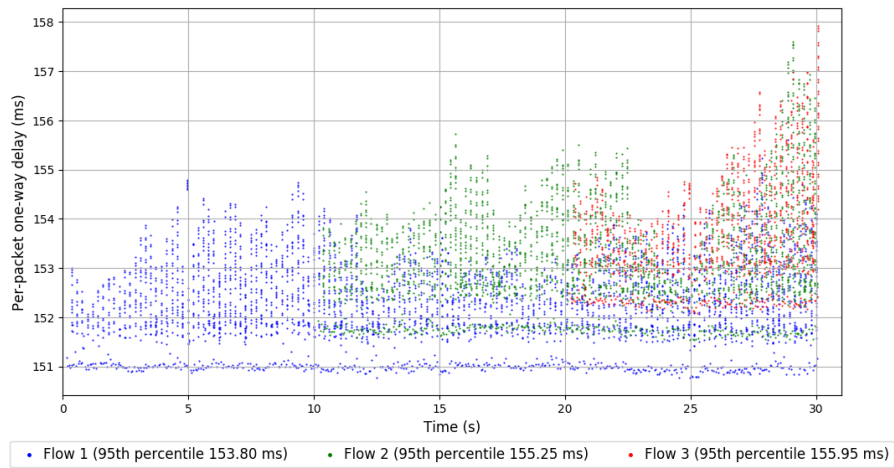
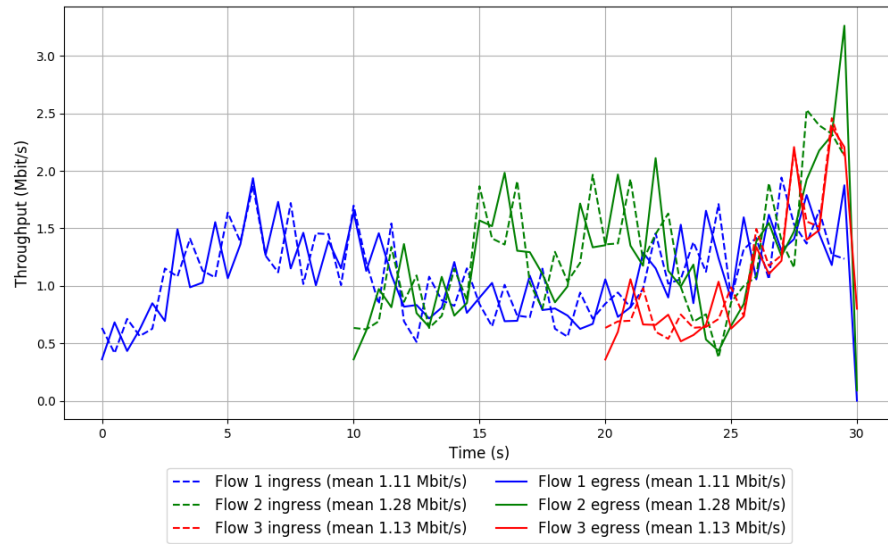


Run 10: Statistics of Sprout

Start at: 2018-04-25 00:21:46
End at: 2018-04-25 00:22:16
Local clock offset: -5.106 ms
Remote clock offset: -1.312 ms

```
# Below is generated by plot.py at 2018-04-25 01:06:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 2.33 Mbit/s
95th percentile per-packet one-way delay: 155.021 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.11 Mbit/s
95th percentile per-packet one-way delay: 153.801 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.28 Mbit/s
95th percentile per-packet one-way delay: 155.255 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 1.13 Mbit/s
95th percentile per-packet one-way delay: 155.949 ms
Loss rate: 0.00%
```

Run 10: Report of Sprout — Data Link

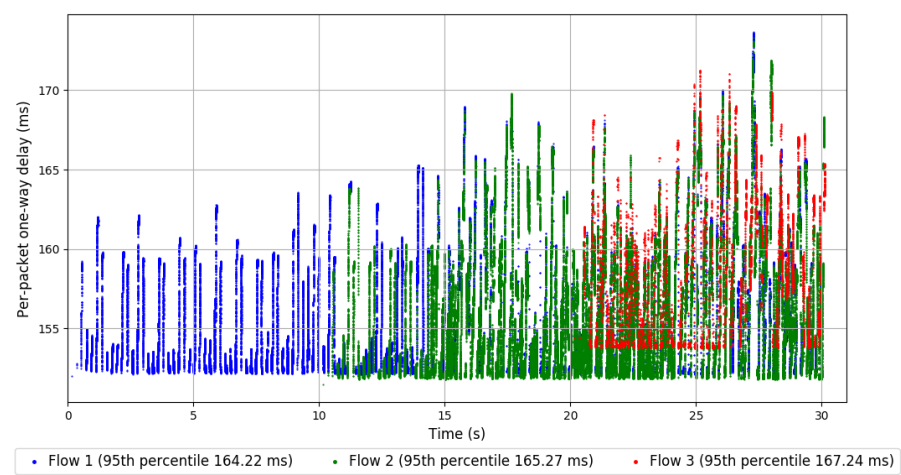
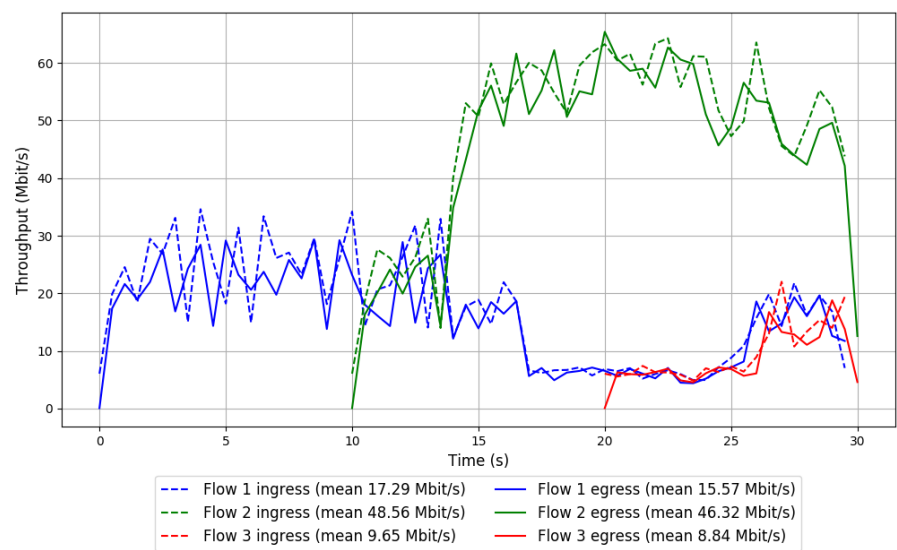


Run 1: Statistics of TaoVA-100x

Start at: 2018-04-24 21:04:02
End at: 2018-04-24 21:04:32
Local clock offset: 3.452 ms
Remote clock offset: -0.474 ms

Below is generated by plot.py at 2018-04-25 01:07:24
Datalink statistics
-- Total of 3 flows:
Average throughput: 49.26 Mbit/s
95th percentile per-packet one-way delay: 165.174 ms
Loss rate: 6.54%
-- Flow 1:
Average throughput: 15.57 Mbit/s
95th percentile per-packet one-way delay: 164.219 ms
Loss rate: 9.97%
-- Flow 2:
Average throughput: 46.32 Mbit/s
95th percentile per-packet one-way delay: 165.274 ms
Loss rate: 4.54%
-- Flow 3:
Average throughput: 8.84 Mbit/s
95th percentile per-packet one-way delay: 167.244 ms
Loss rate: 8.29%

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

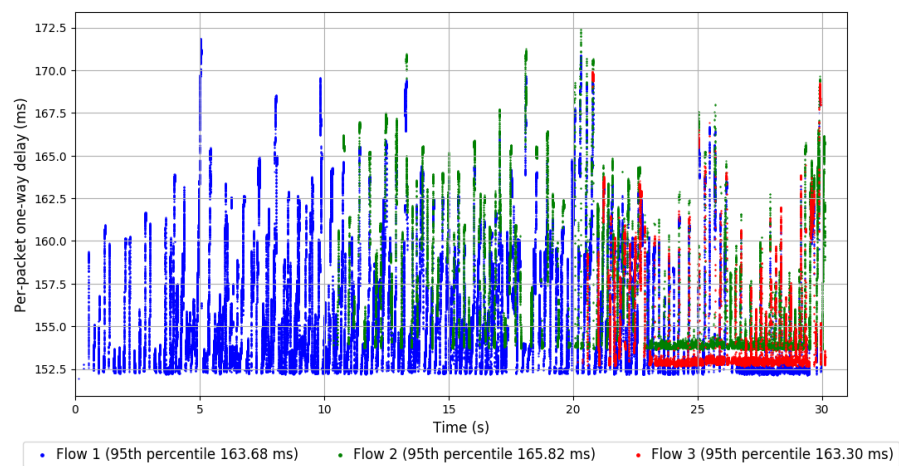
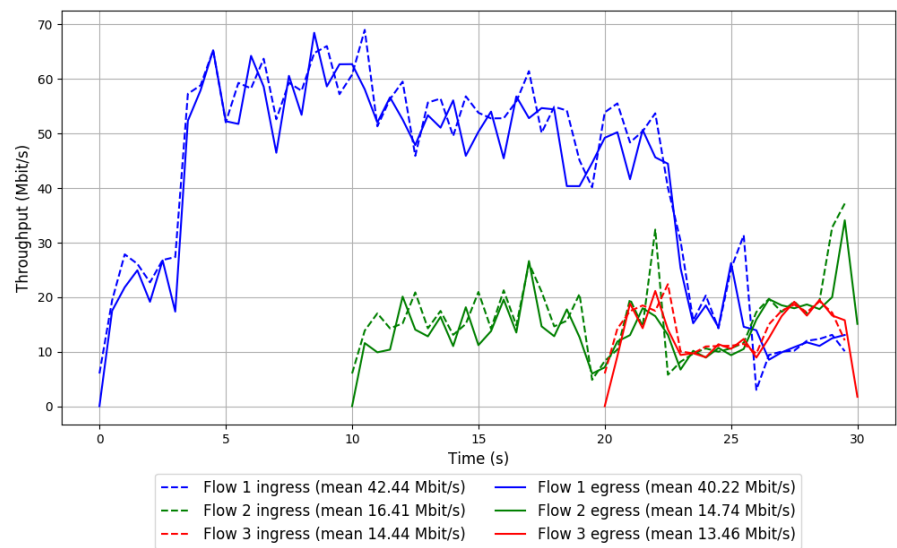


Run 2: Statistics of TaoVA-100x

Start at: 2018-04-24 21:27:14
End at: 2018-04-24 21:27:44
Local clock offset: 2.543 ms
Remote clock offset: -0.691 ms

Below is generated by plot.py at 2018-04-25 01:07:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 54.29 Mbit/s
95th percentile per-packet one-way delay: 164.273 ms
Loss rate: 6.28%
-- Flow 1:
Average throughput: 40.22 Mbit/s
95th percentile per-packet one-way delay: 163.678 ms
Loss rate: 5.23%
-- Flow 2:
Average throughput: 14.74 Mbit/s
95th percentile per-packet one-way delay: 165.824 ms
Loss rate: 10.13%
-- Flow 3:
Average throughput: 13.46 Mbit/s
95th percentile per-packet one-way delay: 163.300 ms
Loss rate: 6.82%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-04-24 21:50:11

End at: 2018-04-24 21:50:41

Local clock offset: -4.055 ms

Remote clock offset: 3.687 ms

Below is generated by plot.py at 2018-04-25 01:07:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 36.21 Mbit/s

95th percentile per-packet one-way delay: 164.200 ms

Loss rate: 8.70%

-- Flow 1:

Average throughput: 18.30 Mbit/s

95th percentile per-packet one-way delay: 162.280 ms

Loss rate: 9.00%

-- Flow 2:

Average throughput: 19.35 Mbit/s

95th percentile per-packet one-way delay: 166.266 ms

Loss rate: 8.36%

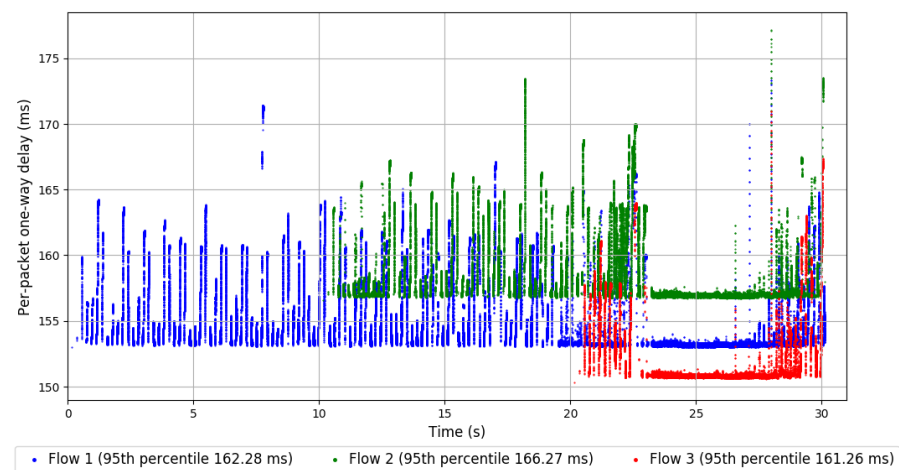
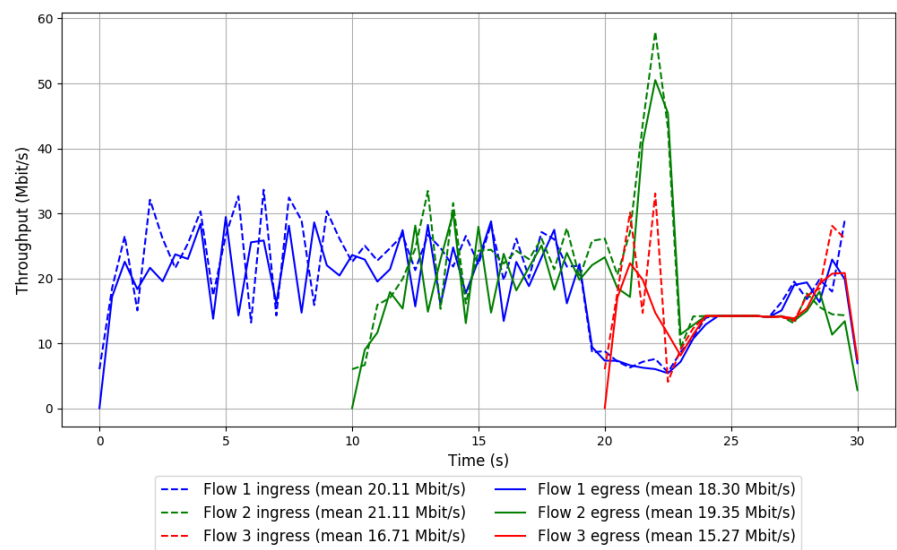
-- Flow 3:

Average throughput: 15.27 Mbit/s

95th percentile per-packet one-way delay: 161.263 ms

Loss rate: 8.49%

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

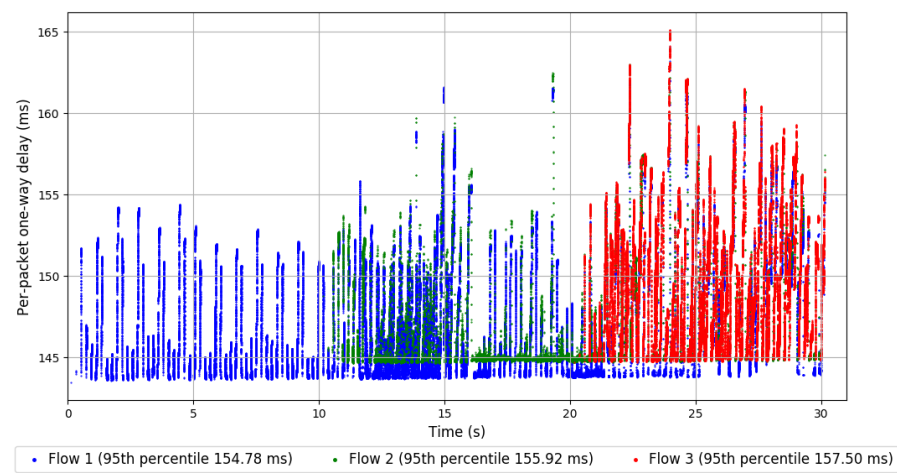
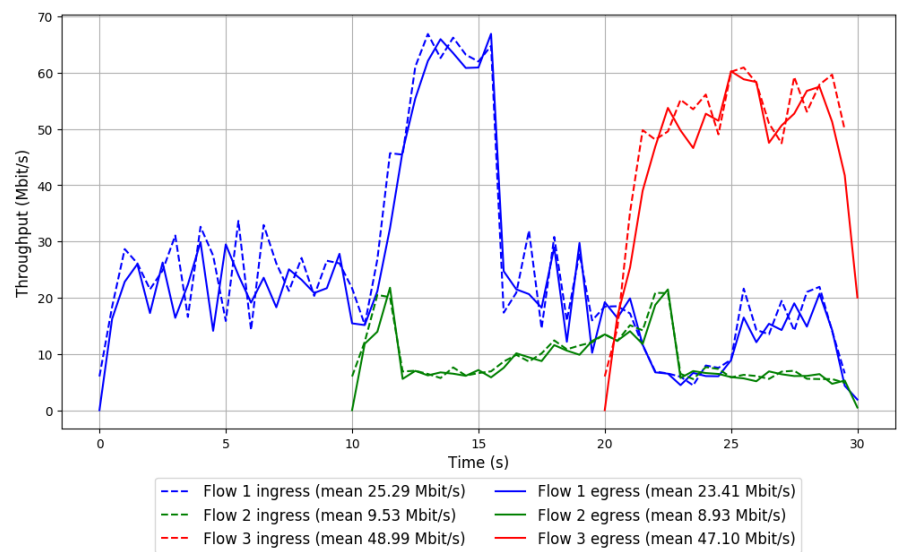


Run 4: Statistics of TaoVA-100x

Start at: 2018-04-24 22:13:11
End at: 2018-04-24 22:13:41
Local clock offset: -1.584 ms
Remote clock offset: -4.822 ms

Below is generated by plot.py at 2018-04-25 01:07:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 44.99 Mbit/s
95th percentile per-packet one-way delay: 156.412 ms
Loss rate: 6.02%
-- Flow 1:
Average throughput: 23.41 Mbit/s
95th percentile per-packet one-way delay: 154.776 ms
Loss rate: 7.42%
-- Flow 2:
Average throughput: 8.93 Mbit/s
95th percentile per-packet one-way delay: 155.923 ms
Loss rate: 6.24%
-- Flow 3:
Average throughput: 47.10 Mbit/s
95th percentile per-packet one-way delay: 157.504 ms
Loss rate: 3.75%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-04-24 22:36:00

End at: 2018-04-24 22:36:30

Local clock offset: 6.025 ms

Remote clock offset: 5.817 ms

Below is generated by plot.py at 2018-04-25 01:07:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 47.90 Mbit/s

95th percentile per-packet one-way delay: 164.539 ms

Loss rate: 4.84%

-- Flow 1:

Average throughput: 34.67 Mbit/s

95th percentile per-packet one-way delay: 163.396 ms

Loss rate: 3.29%

-- Flow 2:

Average throughput: 10.25 Mbit/s

95th percentile per-packet one-way delay: 170.806 ms

Loss rate: 6.24%

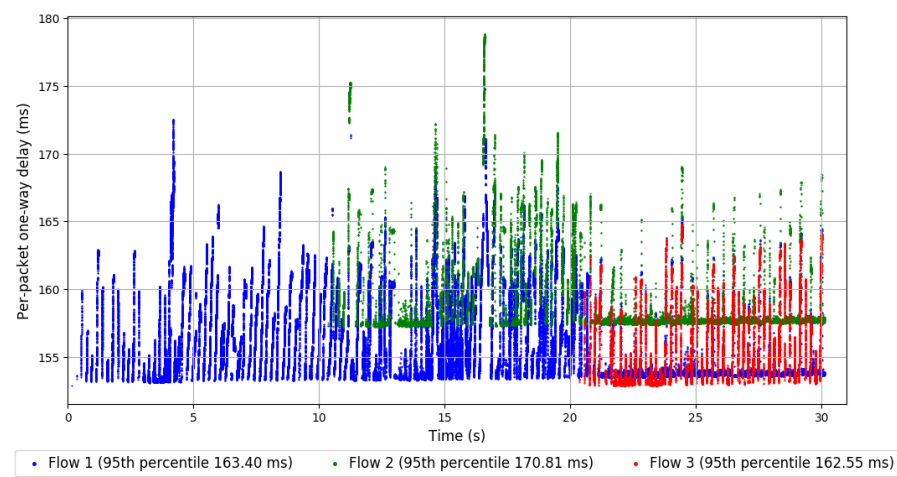
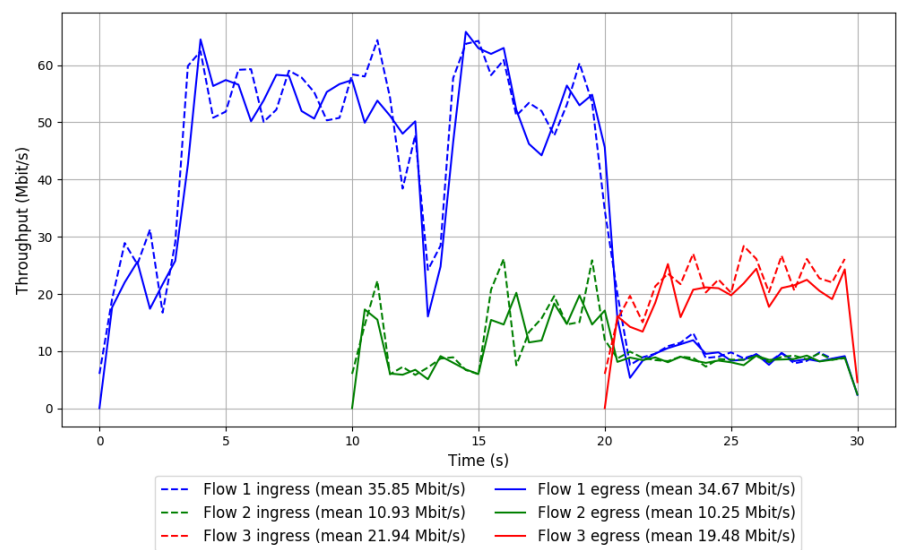
-- Flow 3:

Average throughput: 19.48 Mbit/s

95th percentile per-packet one-way delay: 162.548 ms

Loss rate: 11.19%

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

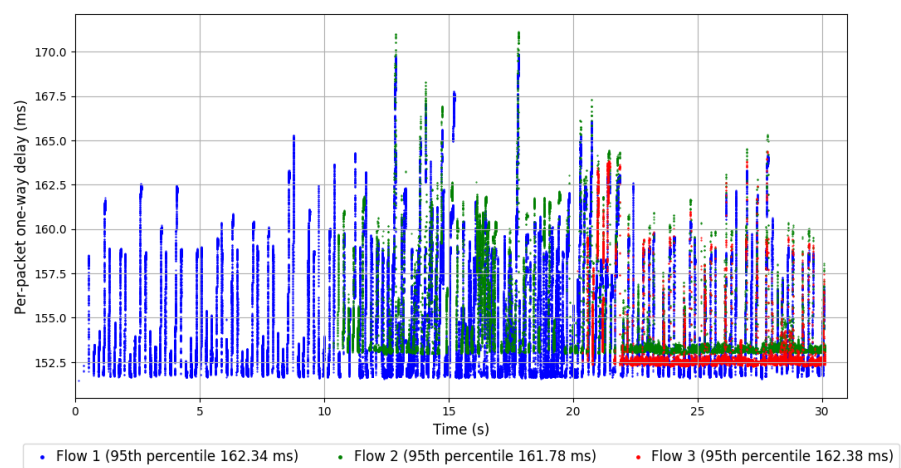
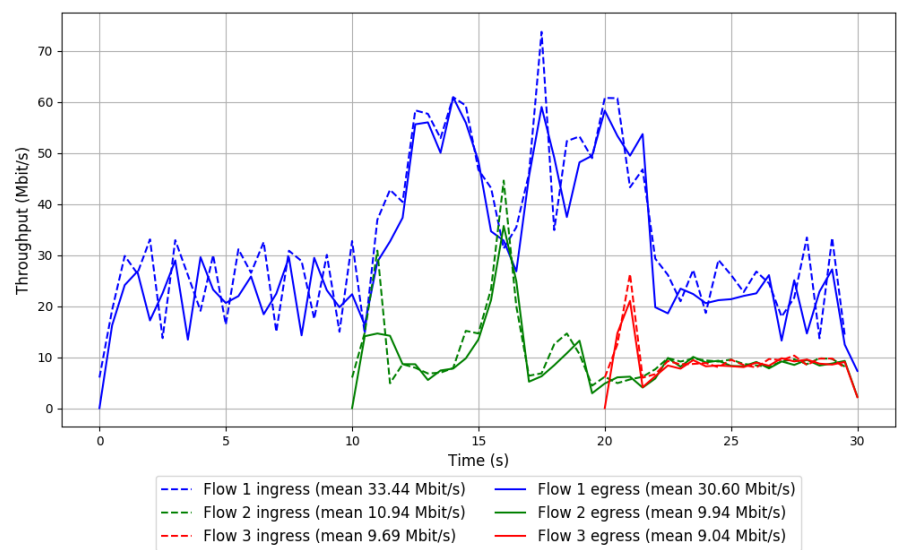


Run 6: Statistics of TaoVA-100x

Start at: 2018-04-24 22:59:12
End at: 2018-04-24 22:59:42
Local clock offset: -1.487 ms
Remote clock offset: -3.105 ms

Below is generated by plot.py at 2018-04-25 01:07:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 40.17 Mbit/s
95th percentile per-packet one-way delay: 162.192 ms
Loss rate: 8.47%
-- Flow 1:
Average throughput: 30.60 Mbit/s
95th percentile per-packet one-way delay: 162.345 ms
Loss rate: 8.48%
-- Flow 2:
Average throughput: 9.94 Mbit/s
95th percentile per-packet one-way delay: 161.777 ms
Loss rate: 9.20%
-- Flow 3:
Average throughput: 9.04 Mbit/s
95th percentile per-packet one-way delay: 162.381 ms
Loss rate: 6.81%

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

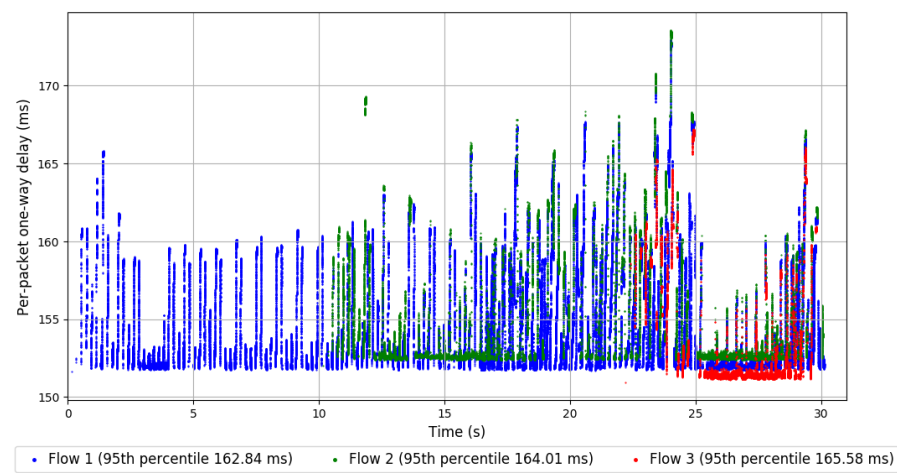
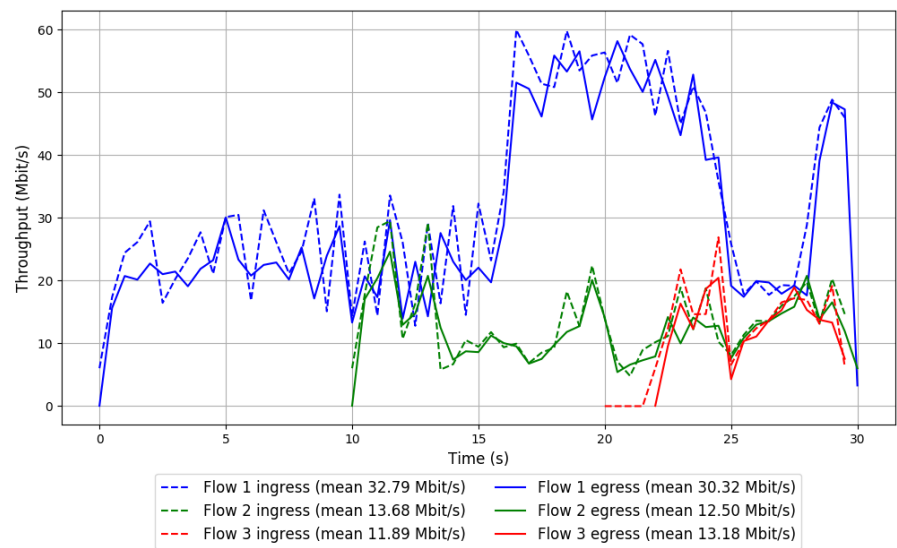


Run 7: Statistics of TaoVA-100x

Start at: 2018-04-24 23:22:00
End at: 2018-04-24 23:22:30
Local clock offset: -1.618 ms
Remote clock offset: -1.885 ms

Below is generated by plot.py at 2018-04-25 01:07:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 41.97 Mbit/s
95th percentile per-packet one-way delay: 163.375 ms
Loss rate: 8.14%
-- Flow 1:
Average throughput: 30.32 Mbit/s
95th percentile per-packet one-way delay: 162.844 ms
Loss rate: 7.54%
-- Flow 2:
Average throughput: 12.50 Mbit/s
95th percentile per-packet one-way delay: 164.012 ms
Loss rate: 8.62%
-- Flow 3:
Average throughput: 13.18 Mbit/s
95th percentile per-packet one-way delay: 165.580 ms
Loss rate: 12.12%

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

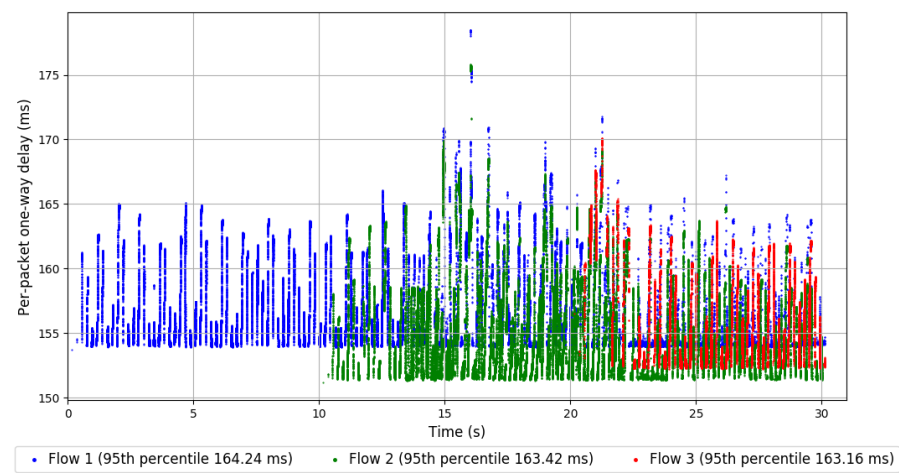
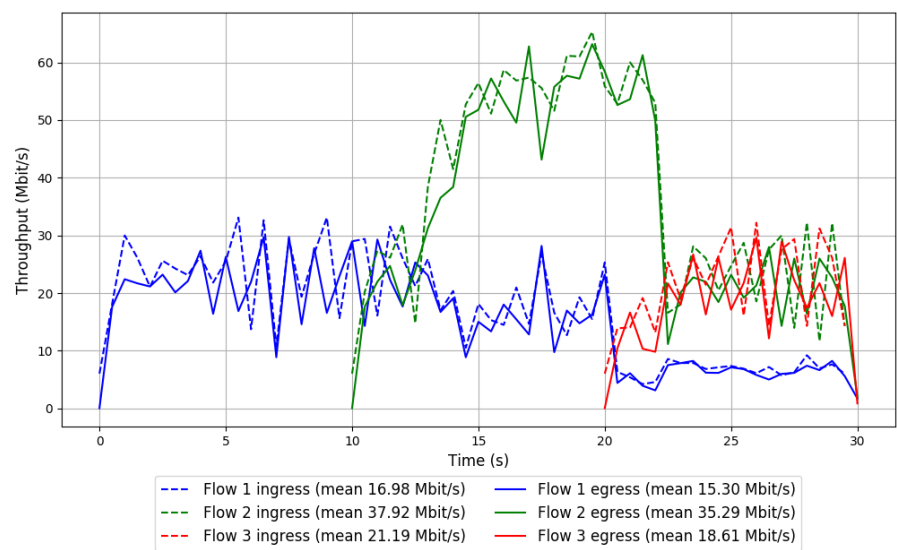


Run 8: Statistics of TaoVA-100x

Start at: 2018-04-24 23:45:25
End at: 2018-04-24 23:45:55
Local clock offset: 0.517 ms
Remote clock offset: -1.785 ms

Below is generated by plot.py at 2018-04-25 01:07:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 44.87 Mbit/s
95th percentile per-packet one-way delay: 163.861 ms
Loss rate: 8.71%
-- Flow 1:
Average throughput: 15.30 Mbit/s
95th percentile per-packet one-way delay: 164.240 ms
Loss rate: 9.90%
-- Flow 2:
Average throughput: 35.29 Mbit/s
95th percentile per-packet one-way delay: 163.418 ms
Loss rate: 6.93%
-- Flow 3:
Average throughput: 18.61 Mbit/s
95th percentile per-packet one-way delay: 163.161 ms
Loss rate: 12.20%

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

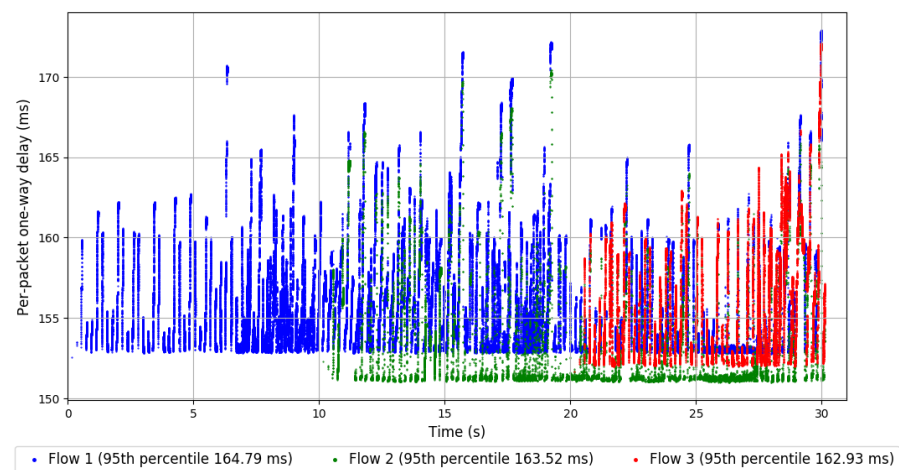
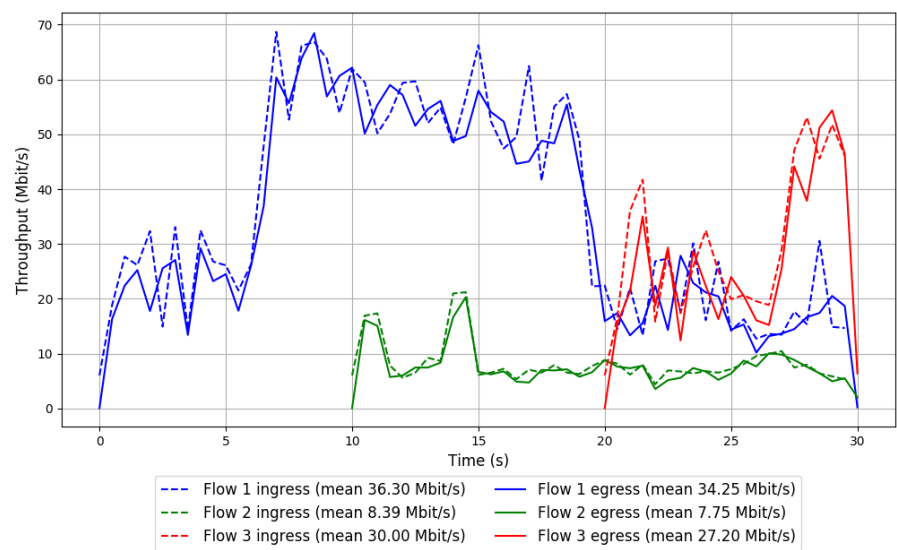


Run 9: Statistics of TaoVA-100x

Start at: 2018-04-25 00:08:09
End at: 2018-04-25 00:08:39
Local clock offset: -4.111 ms
Remote clock offset: -1.738 ms

Below is generated by plot.py at 2018-04-25 01:08:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 48.31 Mbit/s
95th percentile per-packet one-way delay: 164.418 ms
Loss rate: 6.53%
-- Flow 1:
Average throughput: 34.25 Mbit/s
95th percentile per-packet one-way delay: 164.795 ms
Loss rate: 5.60%
-- Flow 2:
Average throughput: 7.75 Mbit/s
95th percentile per-packet one-way delay: 163.516 ms
Loss rate: 7.62%
-- Flow 3:
Average throughput: 27.20 Mbit/s
95th percentile per-packet one-way delay: 162.929 ms
Loss rate: 9.32%

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

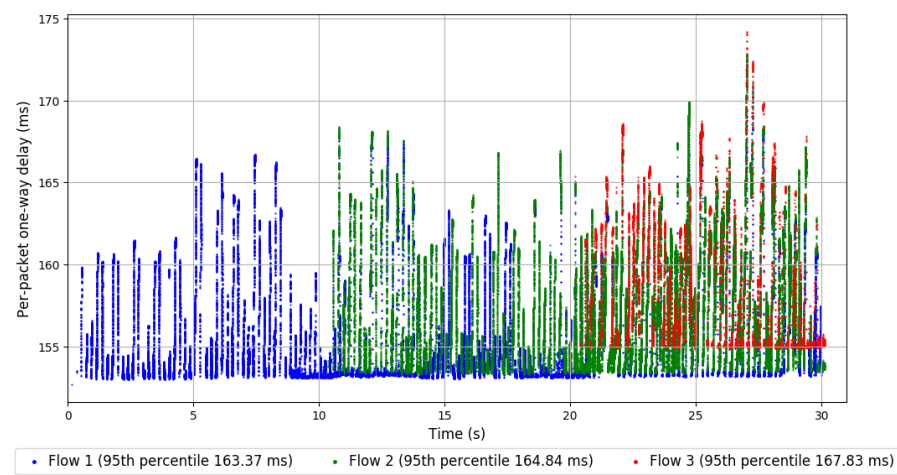
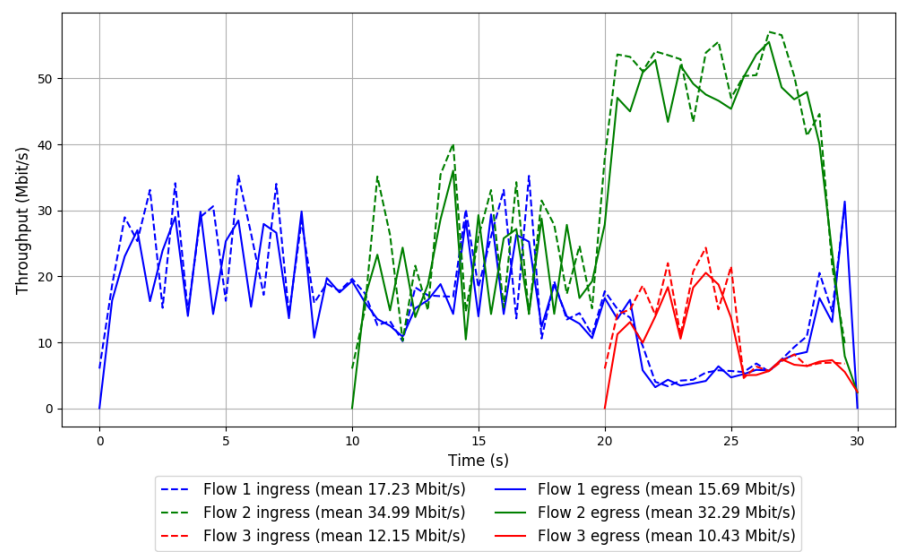


```
Run 10: Statistics of TaoVA-100x

Start at: 2018-04-25 00:30:54
End at: 2018-04-25 00:31:24
Local clock offset: -0.669 ms
Remote clock offset: -17.122 ms

# Below is generated by plot.py at 2018-04-25 01:08:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 40.59 Mbit/s
95th percentile per-packet one-way delay: 164.771 ms
Loss rate: 8.79%
-- Flow 1:
Average throughput: 15.69 Mbit/s
95th percentile per-packet one-way delay: 163.369 ms
Loss rate: 8.94%
-- Flow 2:
Average throughput: 32.29 Mbit/s
95th percentile per-packet one-way delay: 164.837 ms
Loss rate: 7.73%
-- Flow 3:
Average throughput: 10.43 Mbit/s
95th percentile per-packet one-way delay: 167.829 ms
Loss rate: 14.23%
```

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

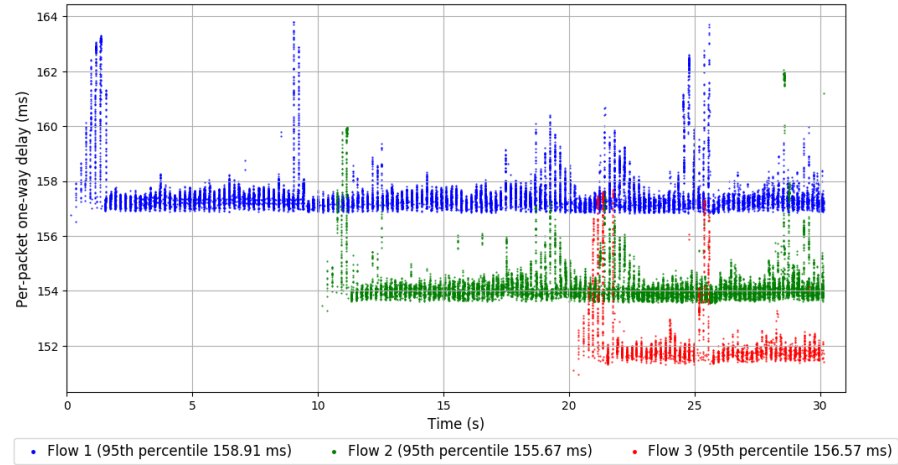
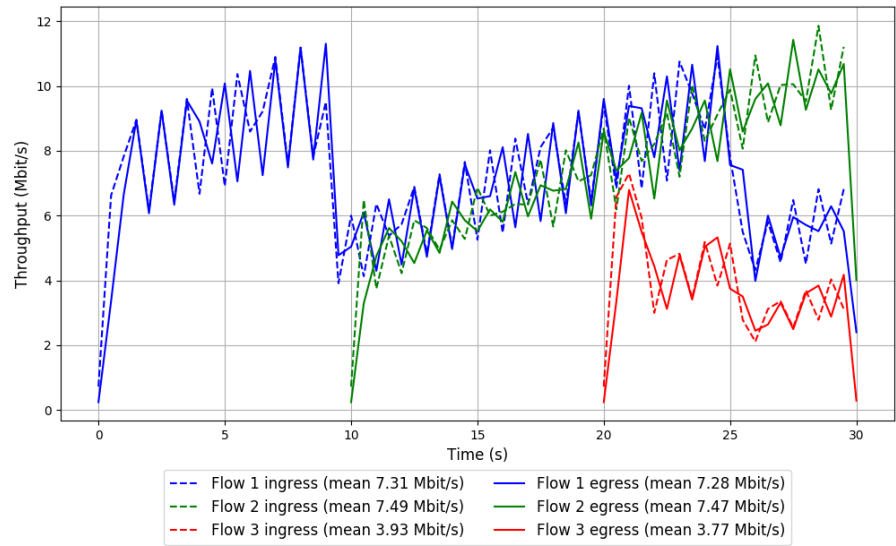


Run 1: Statistics of TCP Vegas

Start at: 2018-04-24 21:00:09
End at: 2018-04-24 21:00:39
Local clock offset: 4.13 ms
Remote clock offset: -0.468 ms

Below is generated by plot.py at 2018-04-25 01:08:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 13.50 Mbit/s
95th percentile per-packet one-way delay: 158.165 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 7.28 Mbit/s
95th percentile per-packet one-way delay: 158.914 ms
Loss rate: 0.49%
-- Flow 2:
Average throughput: 7.47 Mbit/s
95th percentile per-packet one-way delay: 155.667 ms
Loss rate: 0.27%
-- Flow 3:
Average throughput: 3.77 Mbit/s
95th percentile per-packet one-way delay: 156.567 ms
Loss rate: 4.12%

Run 1: Report of TCP Vegas — Data Link

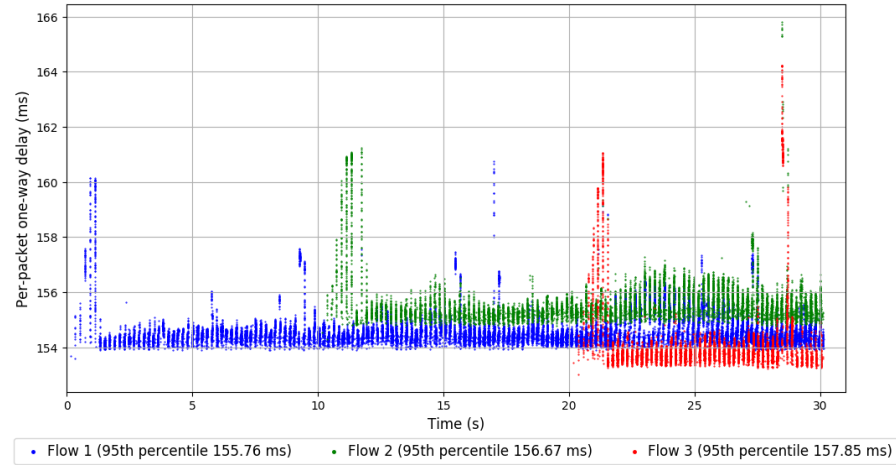
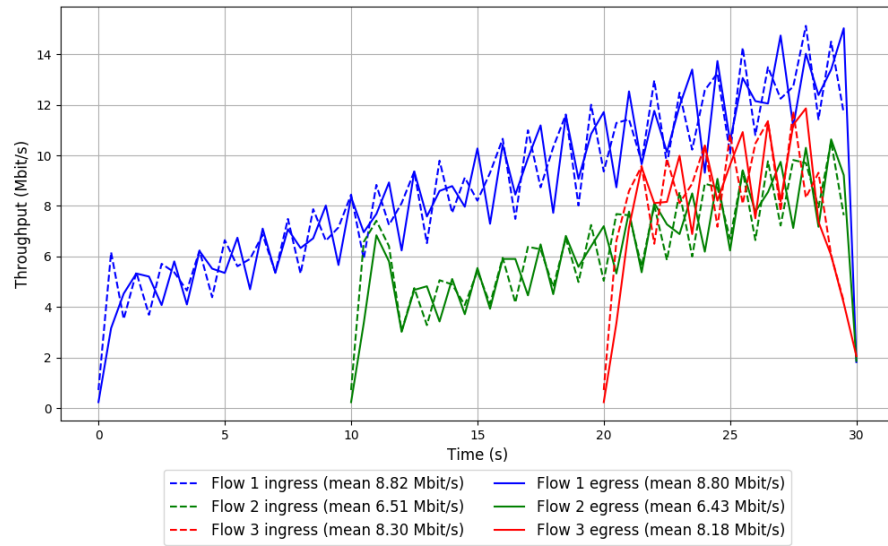


Run 2: Statistics of TCP Vegas

Start at: 2018-04-24 21:23:21
End at: 2018-04-24 21:23:51
Local clock offset: 2.376 ms
Remote clock offset: -0.628 ms

Below is generated by plot.py at 2018-04-25 01:08:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 15.79 Mbit/s
95th percentile per-packet one-way delay: 156.318 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 8.80 Mbit/s
95th percentile per-packet one-way delay: 155.757 ms
Loss rate: 0.14%
-- Flow 2:
Average throughput: 6.43 Mbit/s
95th percentile per-packet one-way delay: 156.673 ms
Loss rate: 1.29%
-- Flow 3:
Average throughput: 8.18 Mbit/s
95th percentile per-packet one-way delay: 157.848 ms
Loss rate: 1.44%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-04-24 21:46:18

End at: 2018-04-24 21:46:48

Local clock offset: -3.067 ms

Remote clock offset: 3.403 ms

Below is generated by plot.py at 2018-04-25 01:08:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 16.74 Mbit/s

95th percentile per-packet one-way delay: 157.019 ms

Loss rate: 0.60%

-- Flow 1:

Average throughput: 9.12 Mbit/s

95th percentile per-packet one-way delay: 154.795 ms

Loss rate: 0.36%

-- Flow 2:

Average throughput: 6.88 Mbit/s

95th percentile per-packet one-way delay: 158.628 ms

Loss rate: 0.69%

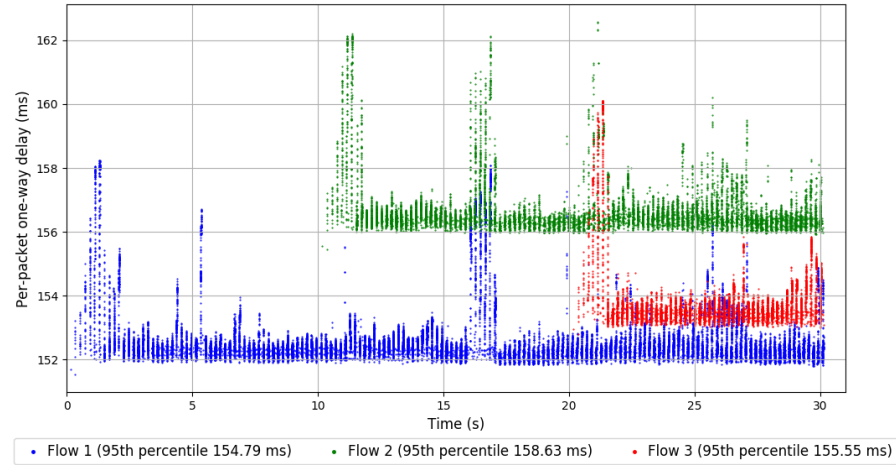
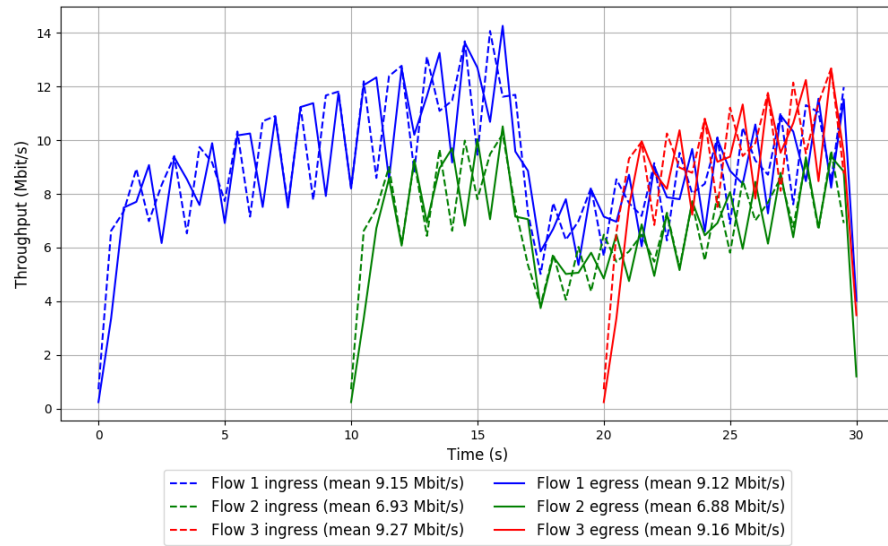
-- Flow 3:

Average throughput: 9.16 Mbit/s

95th percentile per-packet one-way delay: 155.548 ms

Loss rate: 1.17%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-04-24 22:09:18

End at: 2018-04-24 22:09:48

Local clock offset: -4.69 ms

Remote clock offset: 4.771 ms

Below is generated by plot.py at 2018-04-25 01:08:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 20.52 Mbit/s

95th percentile per-packet one-way delay: 155.545 ms

Loss rate: 0.56%

-- Flow 1:

Average throughput: 12.01 Mbit/s

95th percentile per-packet one-way delay: 155.207 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 10.34 Mbit/s

95th percentile per-packet one-way delay: 155.456 ms

Loss rate: 0.43%

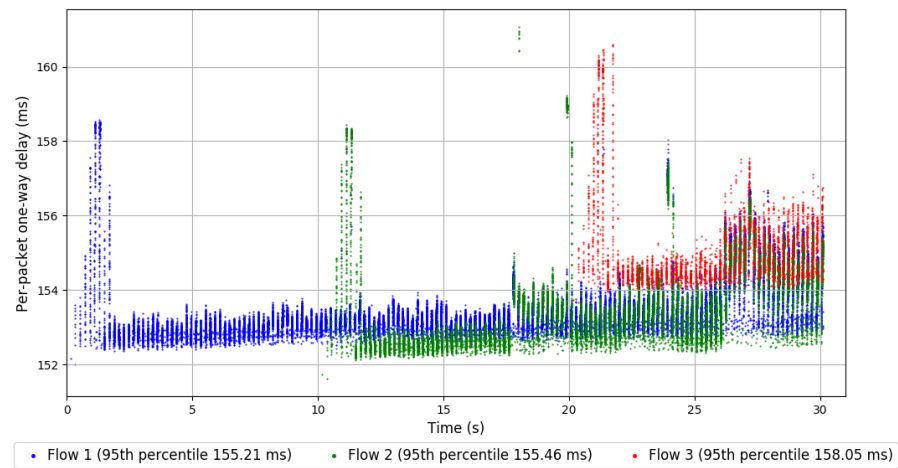
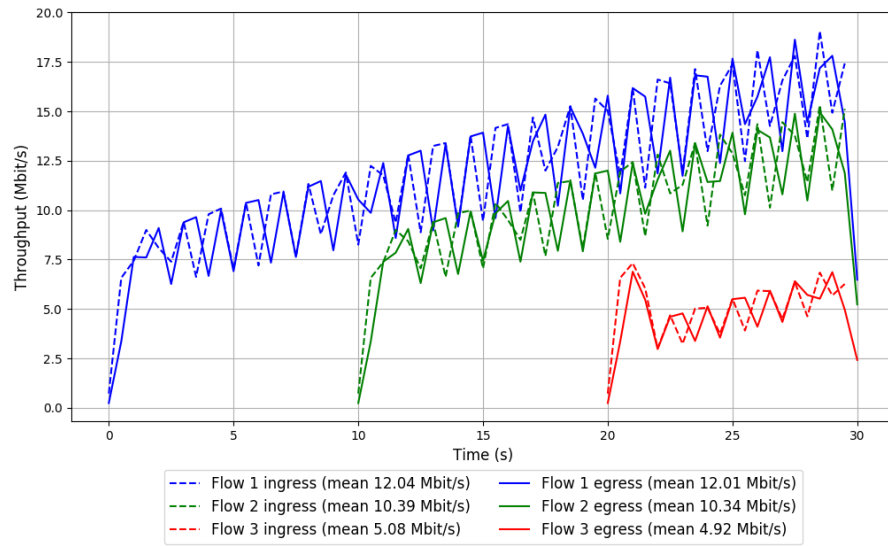
-- Flow 3:

Average throughput: 4.92 Mbit/s

95th percentile per-packet one-way delay: 158.046 ms

Loss rate: 3.19%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-04-24 22:32:07

End at: 2018-04-24 22:32:37

Local clock offset: 5.313 ms

Remote clock offset: 5.739 ms

Below is generated by plot.py at 2018-04-25 01:08:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 16.58 Mbit/s

95th percentile per-packet one-way delay: 154.078 ms

Loss rate: 0.76%

-- Flow 1:

Average throughput: 12.07 Mbit/s

95th percentile per-packet one-way delay: 153.850 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 4.21 Mbit/s

95th percentile per-packet one-way delay: 156.306 ms

Loss rate: 1.84%

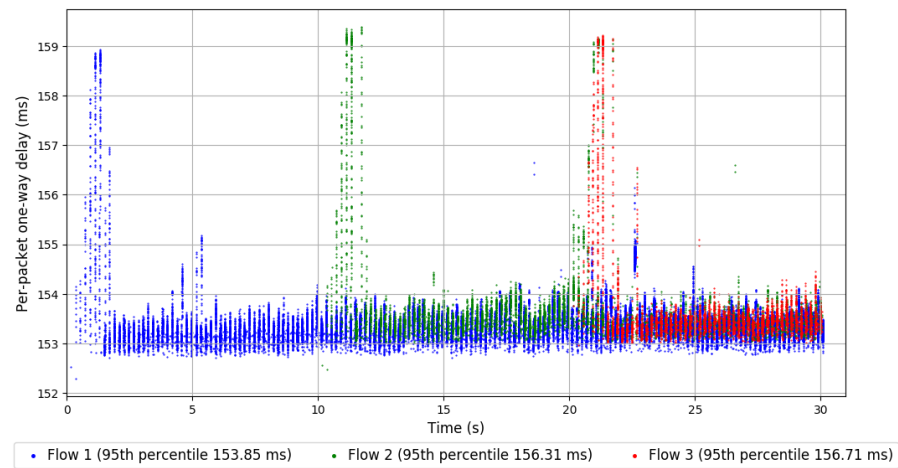
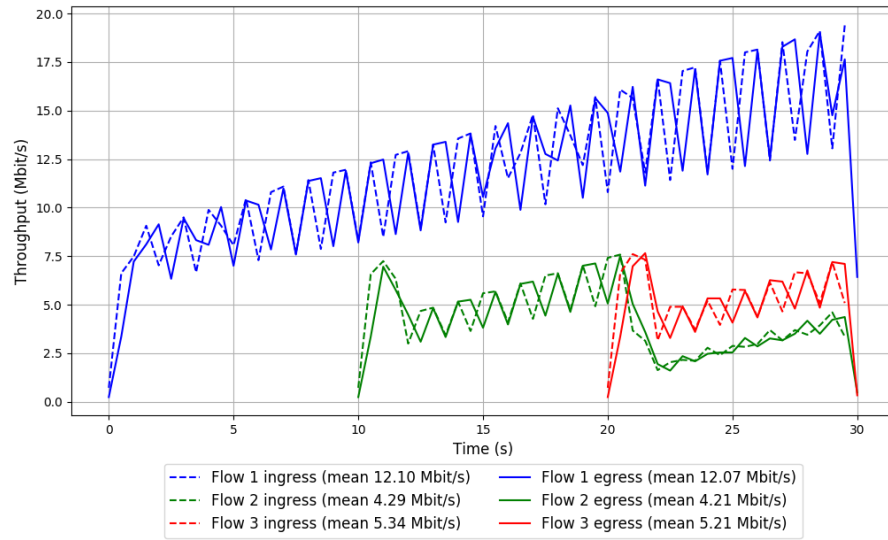
-- Flow 3:

Average throughput: 5.21 Mbit/s

95th percentile per-packet one-way delay: 156.708 ms

Loss rate: 2.37%

Run 5: Report of TCP Vegas — Data Link

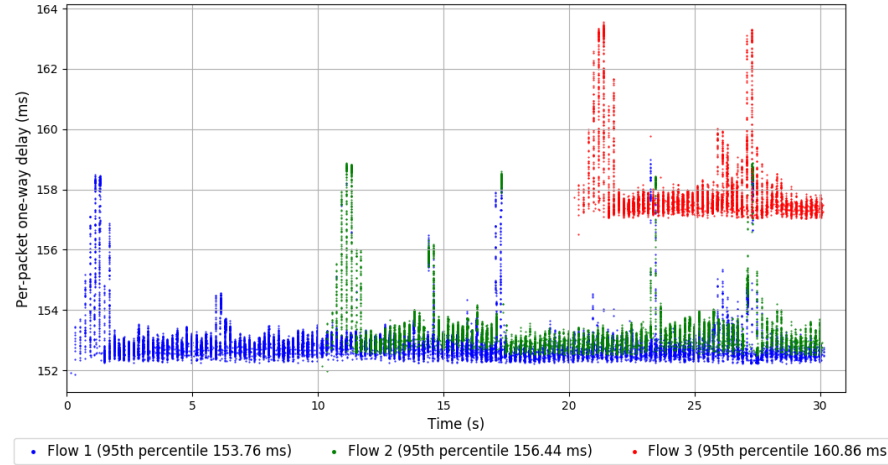
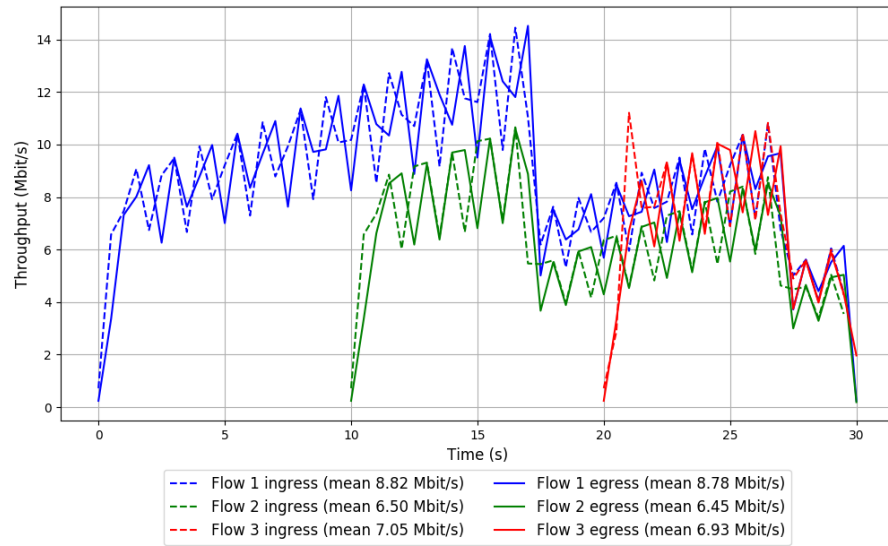


Run 6: Statistics of TCP Vegas

Start at: 2018-04-24 22:55:20
End at: 2018-04-24 22:55:50
Local clock offset: -0.858 ms
Remote clock offset: -2.496 ms

Below is generated by plot.py at 2018-04-25 01:08:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 15.36 Mbit/s
95th percentile per-packet one-way delay: 157.896 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 8.78 Mbit/s
95th percentile per-packet one-way delay: 153.764 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 6.45 Mbit/s
95th percentile per-packet one-way delay: 156.438 ms
Loss rate: 0.82%
-- Flow 3:
Average throughput: 6.93 Mbit/s
95th percentile per-packet one-way delay: 160.857 ms
Loss rate: 1.63%

Run 6: Report of TCP Vegas — Data Link

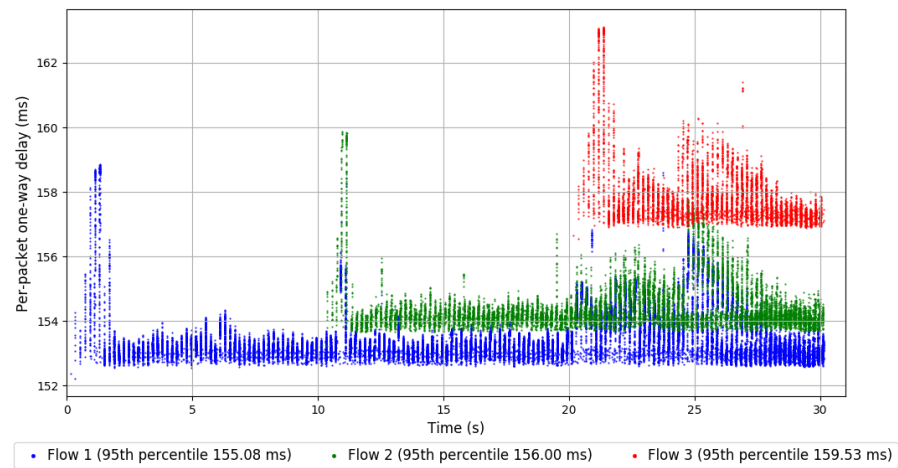
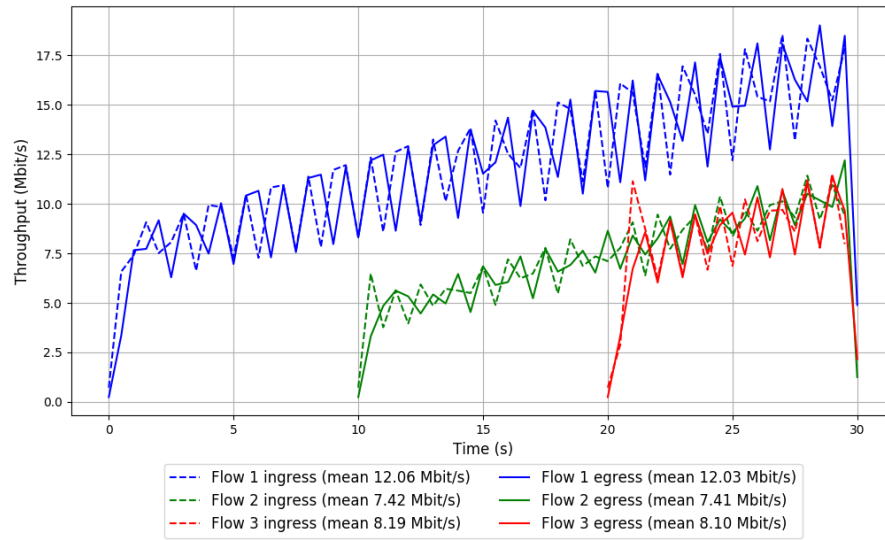


Run 7: Statistics of TCP Vegas

Start at: 2018-04-24 23:18:07
End at: 2018-04-24 23:18:37
Local clock offset: -2.425 ms
Remote clock offset: -2.399 ms

Below is generated by plot.py at 2018-04-25 01:08:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 19.64 Mbit/s
95th percentile per-packet one-way delay: 157.817 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 12.03 Mbit/s
95th percentile per-packet one-way delay: 155.081 ms
Loss rate: 0.24%
-- Flow 2:
Average throughput: 7.41 Mbit/s
95th percentile per-packet one-way delay: 155.996 ms
Loss rate: 0.24%
-- Flow 3:
Average throughput: 8.10 Mbit/s
95th percentile per-packet one-way delay: 159.530 ms
Loss rate: 1.12%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-04-24 23:40:55

End at: 2018-04-24 23:41:25

Local clock offset: 0.25 ms

Remote clock offset: -1.65 ms

Below is generated by plot.py at 2018-04-25 01:08:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 11.50 Mbit/s

95th percentile per-packet one-way delay: 156.216 ms

Loss rate: 1.14%

-- Flow 1:

Average throughput: 6.16 Mbit/s

95th percentile per-packet one-way delay: 154.759 ms

Loss rate: 0.67%

-- Flow 2:

Average throughput: 5.13 Mbit/s

95th percentile per-packet one-way delay: 157.487 ms

Loss rate: 1.64%

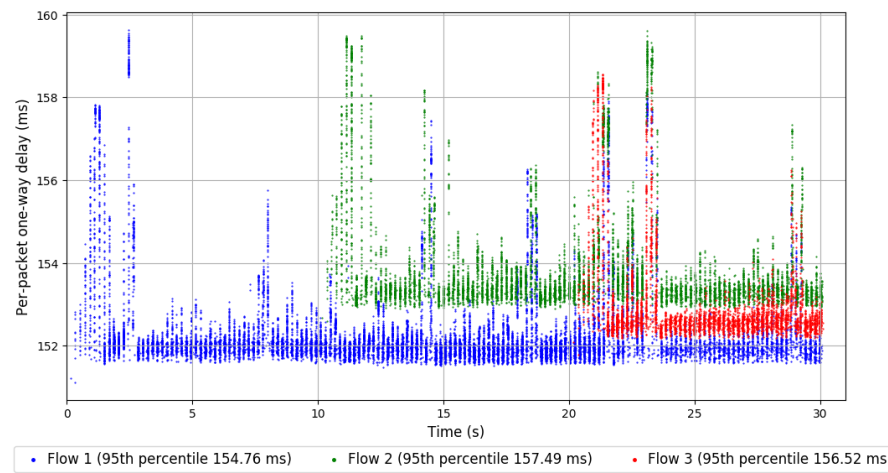
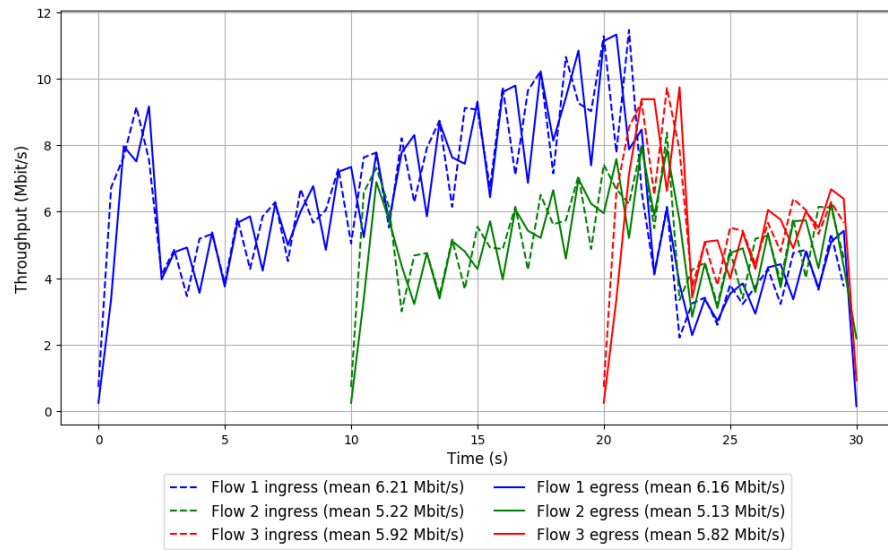
-- Flow 3:

Average throughput: 5.82 Mbit/s

95th percentile per-packet one-way delay: 156.523 ms

Loss rate: 1.72%

Run 8: Report of TCP Vegas — Data Link

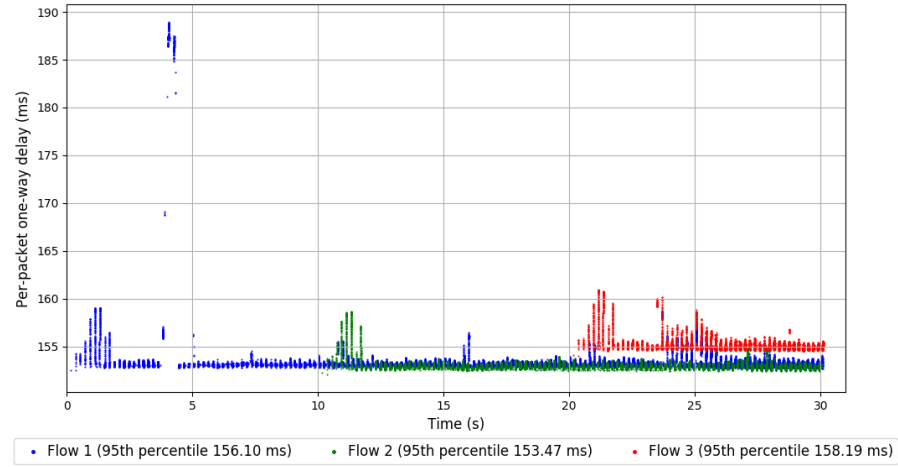
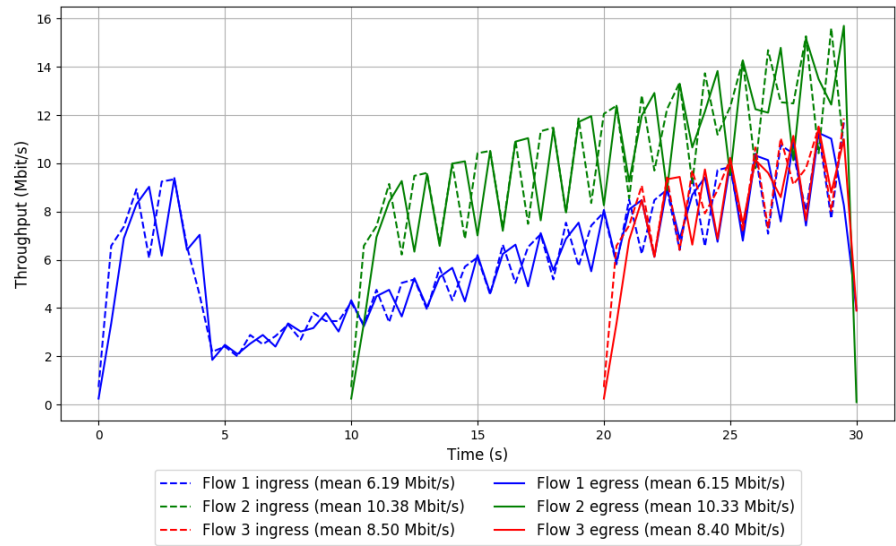


Run 9: Statistics of TCP Vegas

Start at: 2018-04-25 00:04:17
End at: 2018-04-25 00:04:47
Local clock offset: -3.622 ms
Remote clock offset: -1.789 ms

Below is generated by plot.py at 2018-04-25 01:08:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 15.80 Mbit/s
95th percentile per-packet one-way delay: 155.914 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 6.15 Mbit/s
95th percentile per-packet one-way delay: 156.105 ms
Loss rate: 0.55%
-- Flow 2:
Average throughput: 10.33 Mbit/s
95th percentile per-packet one-way delay: 153.471 ms
Loss rate: 0.44%
-- Flow 3:
Average throughput: 8.40 Mbit/s
95th percentile per-packet one-way delay: 158.188 ms
Loss rate: 1.09%

Run 9: Report of TCP Vegas — Data Link

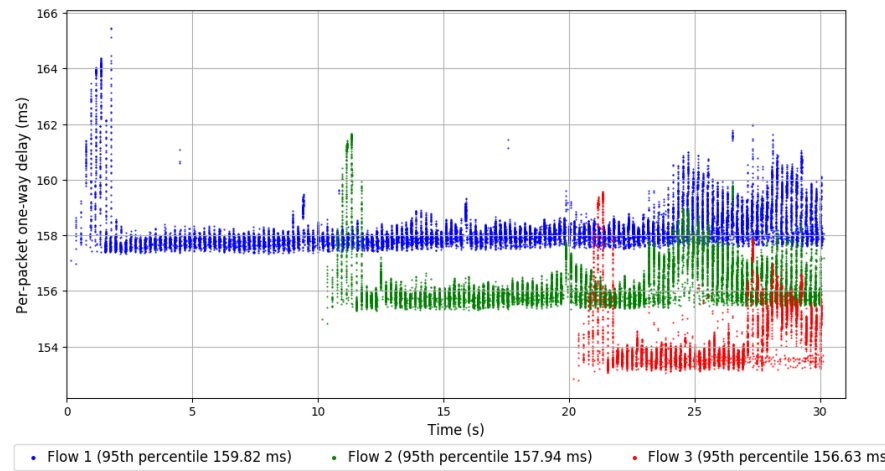
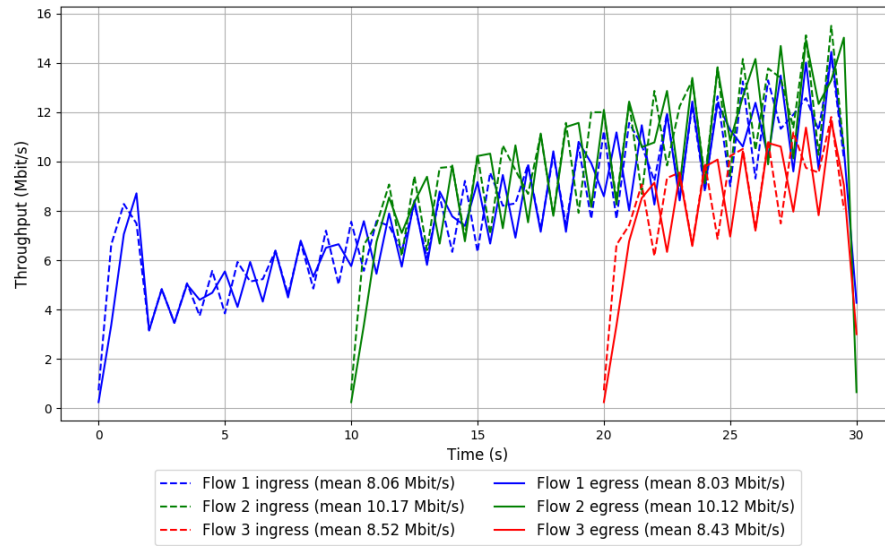


Run 10: Statistics of TCP Vegas

Start at: 2018-04-25 00:27:02
End at: 2018-04-25 00:27:32
Local clock offset: -3.263 ms
Remote clock offset: -17.36 ms

Below is generated by plot.py at 2018-04-25 01:08:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 17.55 Mbit/s
95th percentile per-packet one-way delay: 159.239 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 8.03 Mbit/s
95th percentile per-packet one-way delay: 159.824 ms
Loss rate: 0.45%
-- Flow 2:
Average throughput: 10.12 Mbit/s
95th percentile per-packet one-way delay: 157.935 ms
Loss rate: 0.48%
-- Flow 3:
Average throughput: 8.43 Mbit/s
95th percentile per-packet one-way delay: 156.629 ms
Loss rate: 1.12%

Run 10: Report of TCP Vegas — Data Link

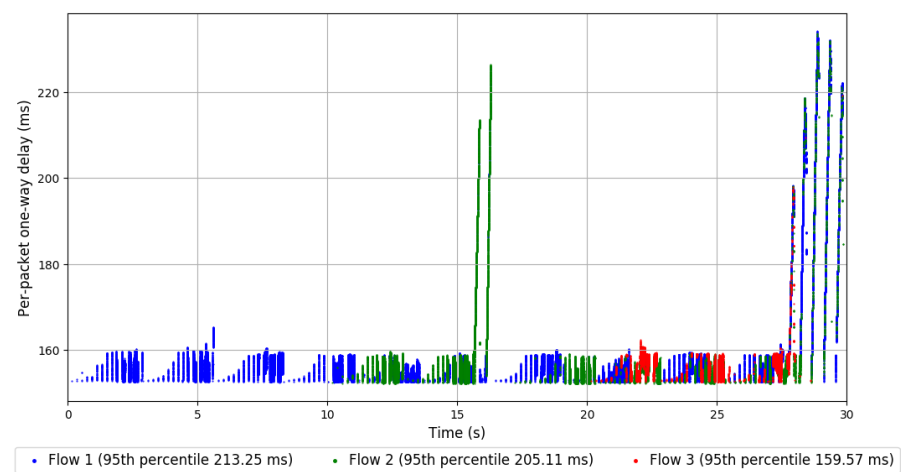
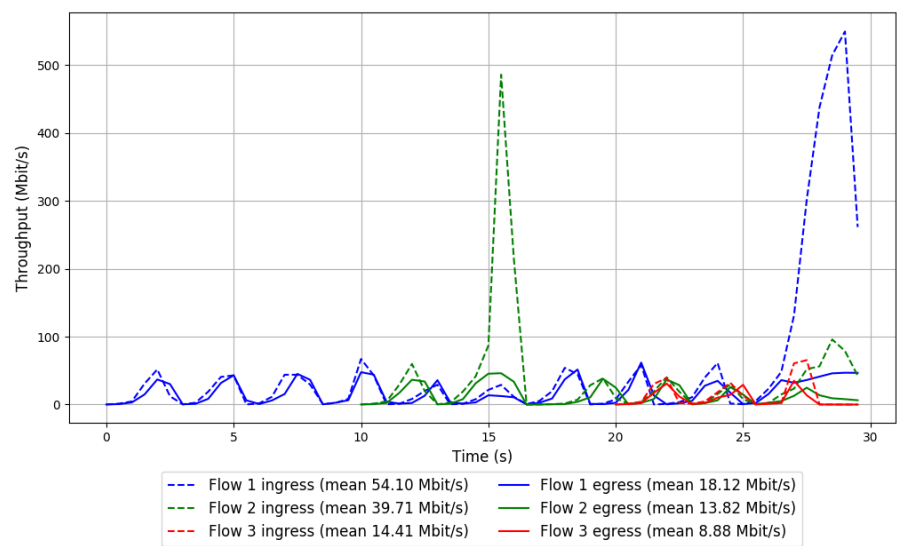


Run 1: Statistics of Verus

Start at: 2018-04-24 20:50:32
End at: 2018-04-24 20:51:02
Local clock offset: 3.898 ms
Remote clock offset: -0.534 ms

Below is generated by plot.py at 2018-04-25 01:08:40
Datalink statistics
-- Total of 3 flows:
Average throughput: 30.16 Mbit/s
95th percentile per-packet one-way delay: 208.600 ms
Loss rate: 64.47%
-- Flow 1:
Average throughput: 18.12 Mbit/s
95th percentile per-packet one-way delay: 213.249 ms
Loss rate: 66.43%
-- Flow 2:
Average throughput: 13.82 Mbit/s
95th percentile per-packet one-way delay: 205.112 ms
Loss rate: 65.14%
-- Flow 3:
Average throughput: 8.88 Mbit/s
95th percentile per-packet one-way delay: 159.566 ms
Loss rate: 37.95%

Run 1: Report of Verus — Data Link

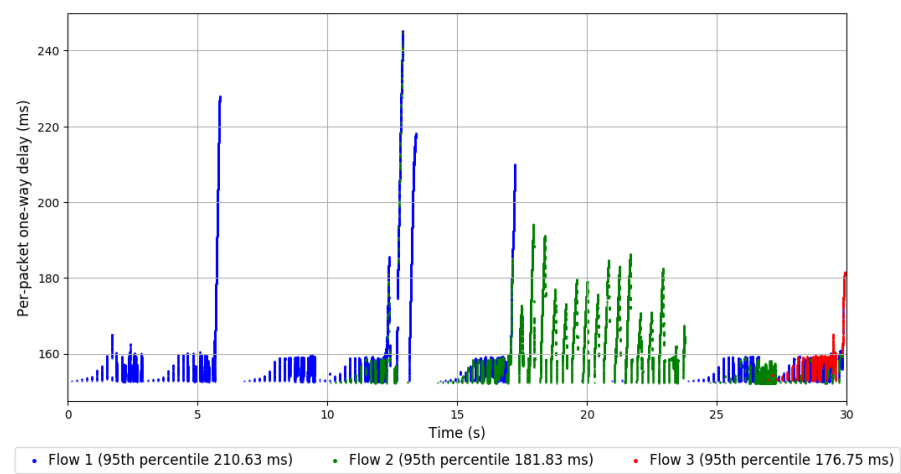
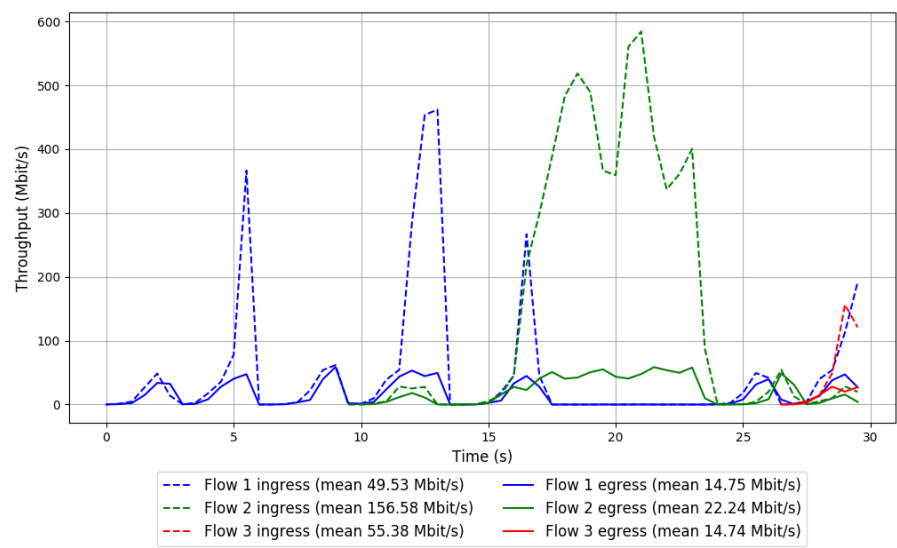


Run 2: Statistics of Verus

Start at: 2018-04-24 21:13:42
End at: 2018-04-24 21:14:12
Local clock offset: 2.71 ms
Remote clock offset: -0.532 ms

Below is generated by plot.py at 2018-04-25 01:09:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 31.07 Mbit/s
95th percentile per-packet one-way delay: 191.898 ms
Loss rate: 80.48%
-- Flow 1:
Average throughput: 14.75 Mbit/s
95th percentile per-packet one-way delay: 210.633 ms
Loss rate: 70.21%
-- Flow 2:
Average throughput: 22.24 Mbit/s
95th percentile per-packet one-way delay: 181.833 ms
Loss rate: 85.78%
-- Flow 3:
Average throughput: 14.74 Mbit/s
95th percentile per-packet one-way delay: 176.754 ms
Loss rate: 73.15%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-04-24 21:36:45

End at: 2018-04-24 21:37:15

Local clock offset: 0.406 ms

Remote clock offset: 2.108 ms

Below is generated by plot.py at 2018-04-25 01:09:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 35.26 Mbit/s

95th percentile per-packet one-way delay: 231.790 ms

Loss rate: 85.29%

-- Flow 1:

Average throughput: 25.72 Mbit/s

95th percentile per-packet one-way delay: 225.183 ms

Loss rate: 84.95%

-- Flow 2:

Average throughput: 6.33 Mbit/s

95th percentile per-packet one-way delay: 227.324 ms

Loss rate: 74.86%

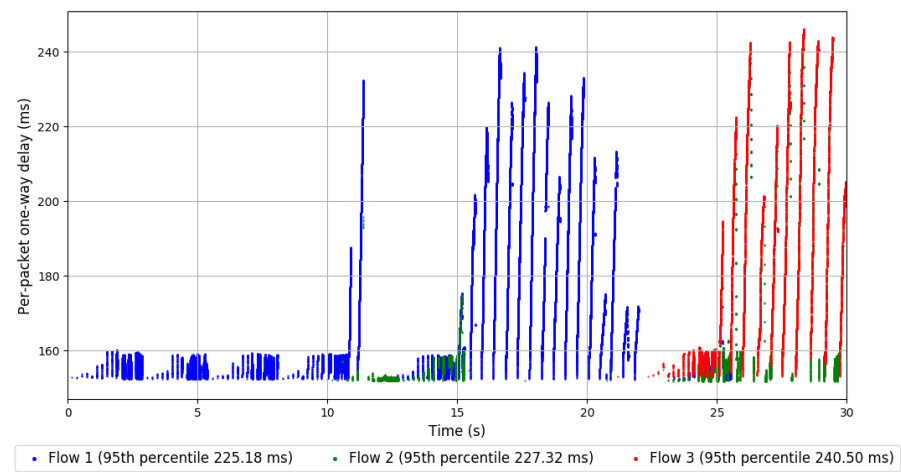
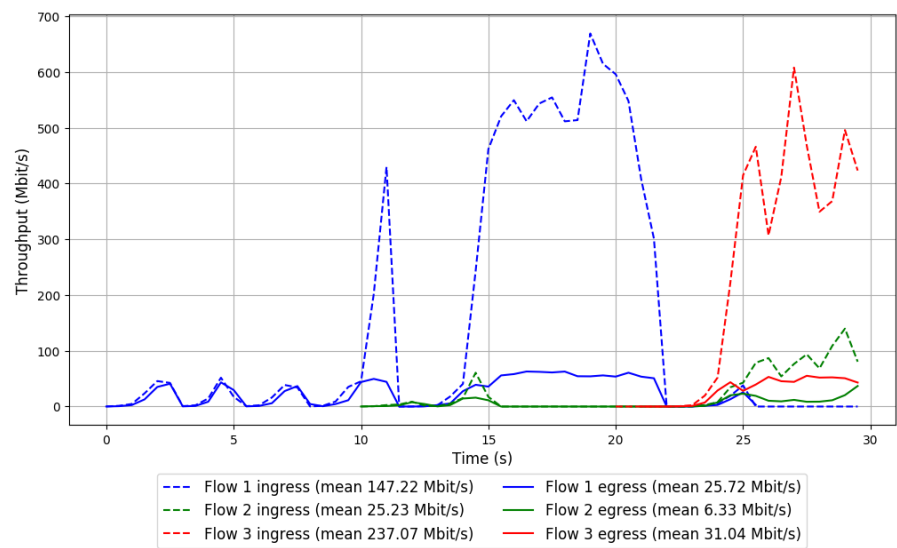
-- Flow 3:

Average throughput: 31.04 Mbit/s

95th percentile per-packet one-way delay: 240.503 ms

Loss rate: 88.18%

Run 3: Report of Verus — Data Link

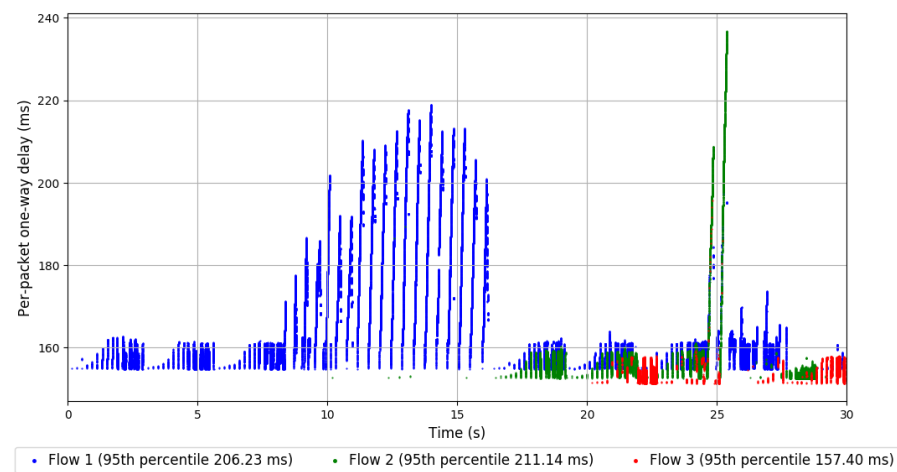
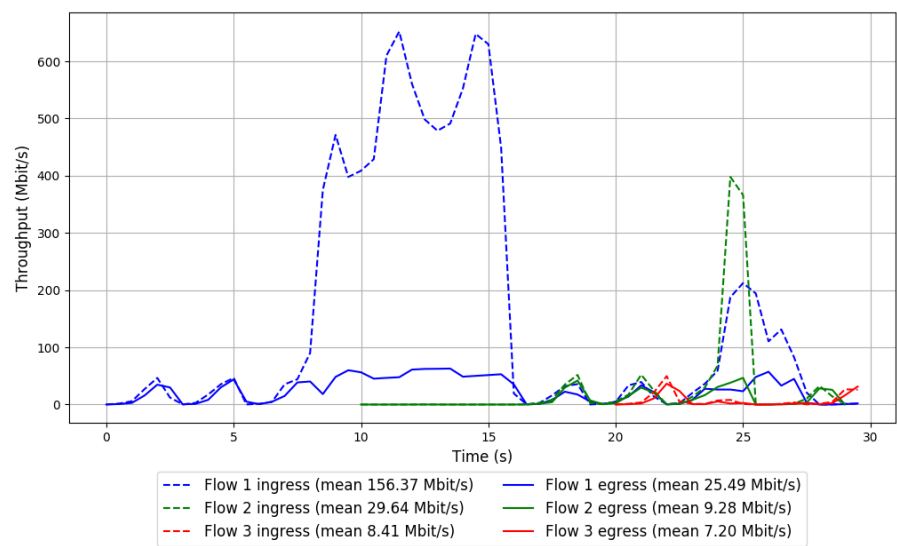


Run 4: Statistics of Verus

Start at: 2018-04-24 21:59:53
End at: 2018-04-24 22:00:23
Local clock offset: -5.422 ms
Remote clock offset: 4.304 ms

Below is generated by plot.py at 2018-04-25 01:09:25
Datalink statistics
-- Total of 3 flows:
Average throughput: 33.71 Mbit/s
95th percentile per-packet one-way delay: 206.046 ms
Loss rate: 81.04%
-- Flow 1:
Average throughput: 25.49 Mbit/s
95th percentile per-packet one-way delay: 206.232 ms
Loss rate: 83.70%
-- Flow 2:
Average throughput: 9.28 Mbit/s
95th percentile per-packet one-way delay: 211.139 ms
Loss rate: 69.00%
-- Flow 3:
Average throughput: 7.20 Mbit/s
95th percentile per-packet one-way delay: 157.402 ms
Loss rate: 14.36%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-04-24 22:22:41

End at: 2018-04-24 22:23:11

Local clock offset: 2.908 ms

Remote clock offset: 5.265 ms

Below is generated by plot.py at 2018-04-25 01:09:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 38.25 Mbit/s

95th percentile per-packet one-way delay: 213.672 ms

Loss rate: 87.18%

-- Flow 1:

Average throughput: 36.61 Mbit/s

95th percentile per-packet one-way delay: 214.157 ms

Loss rate: 87.65%

-- Flow 2:

Average throughput: 2.62 Mbit/s

95th percentile per-packet one-way delay: 158.826 ms

Loss rate: 14.35%

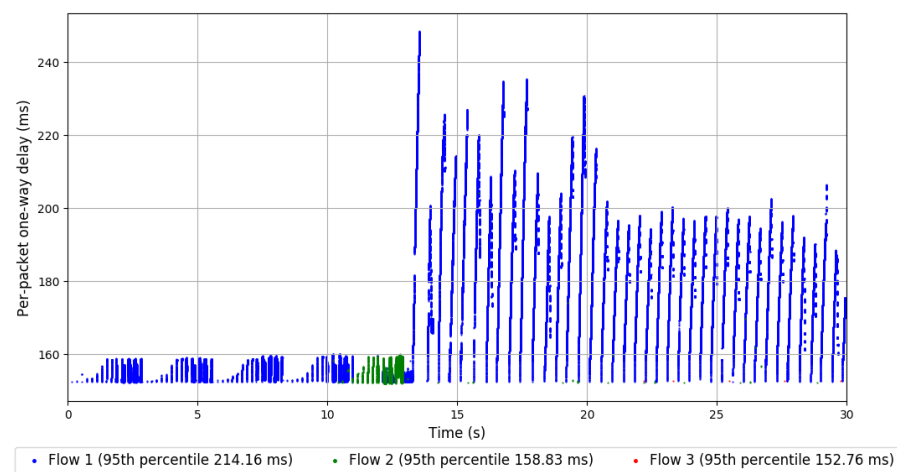
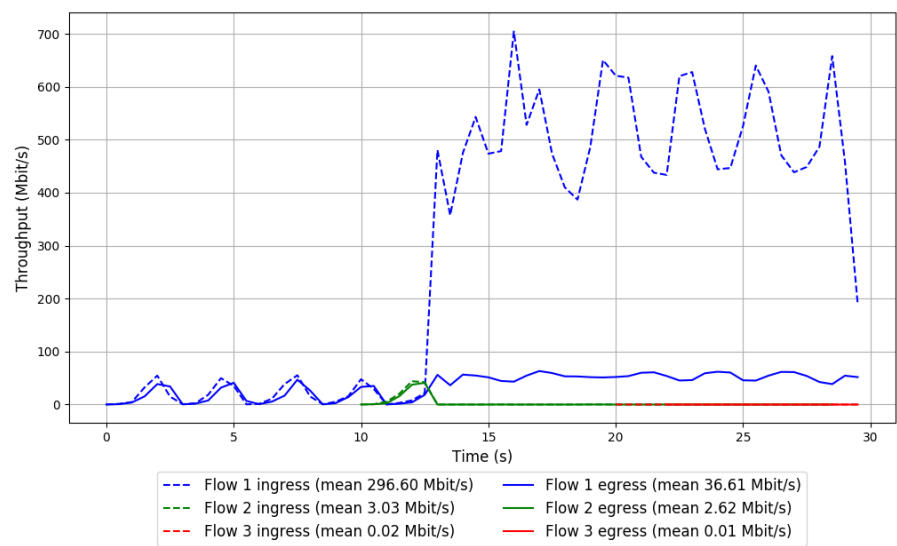
-- Flow 3:

Average throughput: 0.01 Mbit/s

95th percentile per-packet one-way delay: 152.765 ms

Loss rate: 72.22%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-04-24 22:45:38

End at: 2018-04-24 22:46:08

Local clock offset: 3.709 ms

Remote clock offset: 0.035 ms

Run 6: Report of Verus — Data Link

Figure is missing

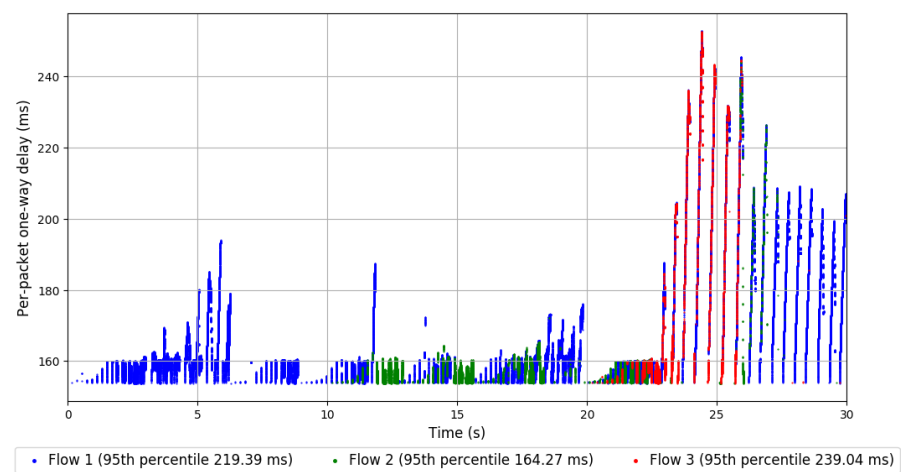
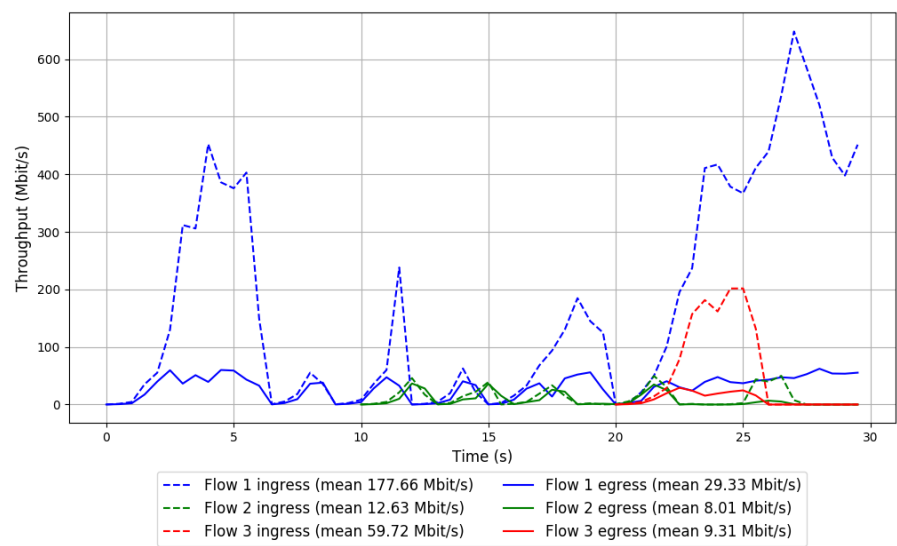
Figure is missing

Run 7: Statistics of Verus

Start at: 2018-04-24 23:08:41
End at: 2018-04-24 23:09:11
Local clock offset: -2.648 ms
Remote clock offset: -4.541 ms

Below is generated by plot.py at 2018-04-25 01:09:46
Datalink statistics
-- Total of 3 flows:
Average throughput: 37.61 Mbit/s
95th percentile per-packet one-way delay: 222.228 ms
Loss rate: 81.67%
-- Flow 1:
Average throughput: 29.33 Mbit/s
95th percentile per-packet one-way delay: 219.394 ms
Loss rate: 83.46%
-- Flow 2:
Average throughput: 8.01 Mbit/s
95th percentile per-packet one-way delay: 164.272 ms
Loss rate: 37.18%
-- Flow 3:
Average throughput: 9.31 Mbit/s
95th percentile per-packet one-way delay: 239.041 ms
Loss rate: 84.33%

Run 7: Report of Verus — Data Link

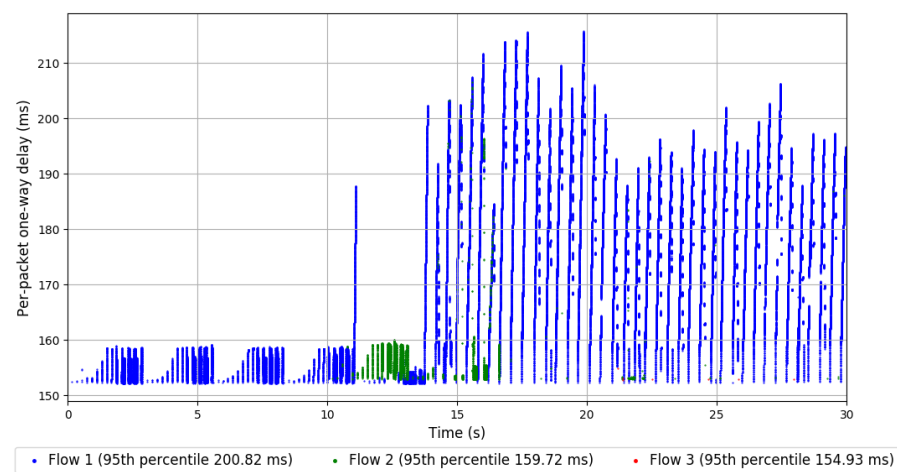
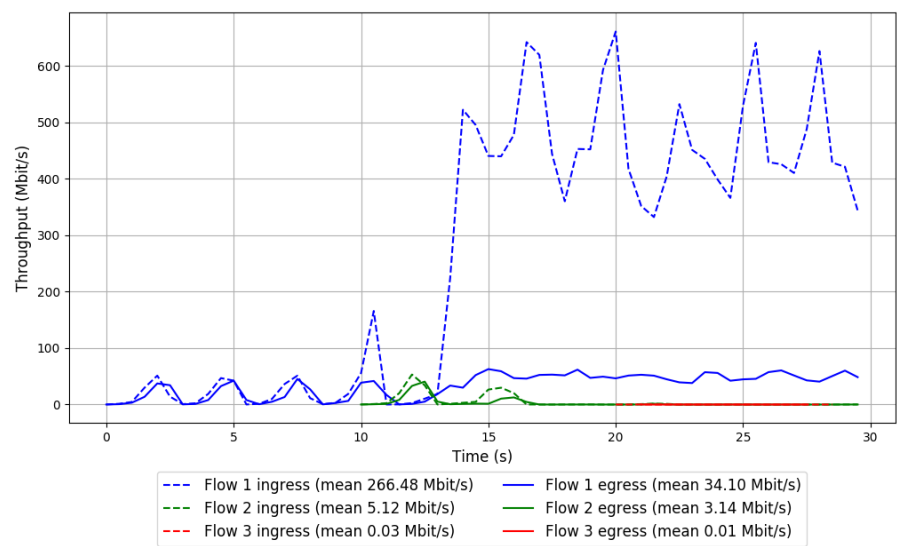


Run 8: Statistics of Verus

Start at: 2018-04-24 23:31:29
End at: 2018-04-24 23:31:59
Local clock offset: -0.427 ms
Remote clock offset: -1.498 ms

Below is generated by plot.py at 2018-04-25 01:10:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 36.18 Mbit/s
95th percentile per-packet one-way delay: 200.504 ms
Loss rate: 86.57%
-- Flow 1:
Average throughput: 34.10 Mbit/s
95th percentile per-packet one-way delay: 200.822 ms
Loss rate: 87.19%
-- Flow 2:
Average throughput: 3.14 Mbit/s
95th percentile per-packet one-way delay: 159.724 ms
Loss rate: 38.57%
-- Flow 3:
Average throughput: 0.01 Mbit/s
95th percentile per-packet one-way delay: 154.926 ms
Loss rate: 69.57%

Run 8: Report of Verus — Data Link

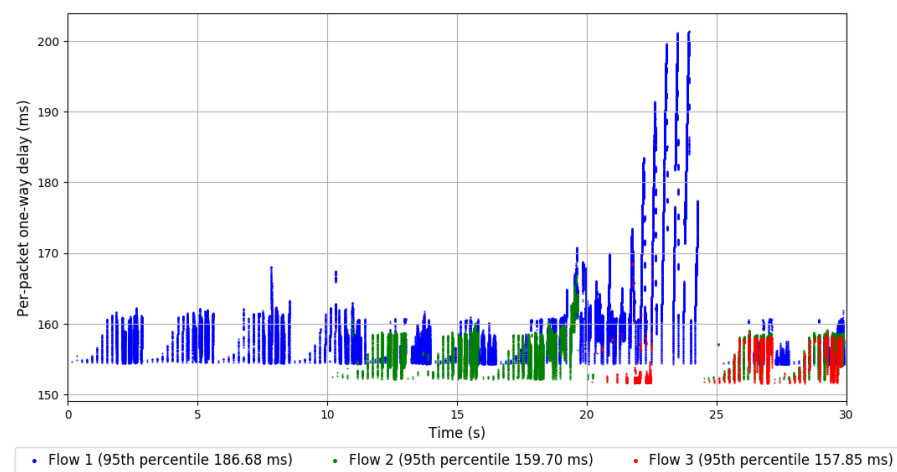
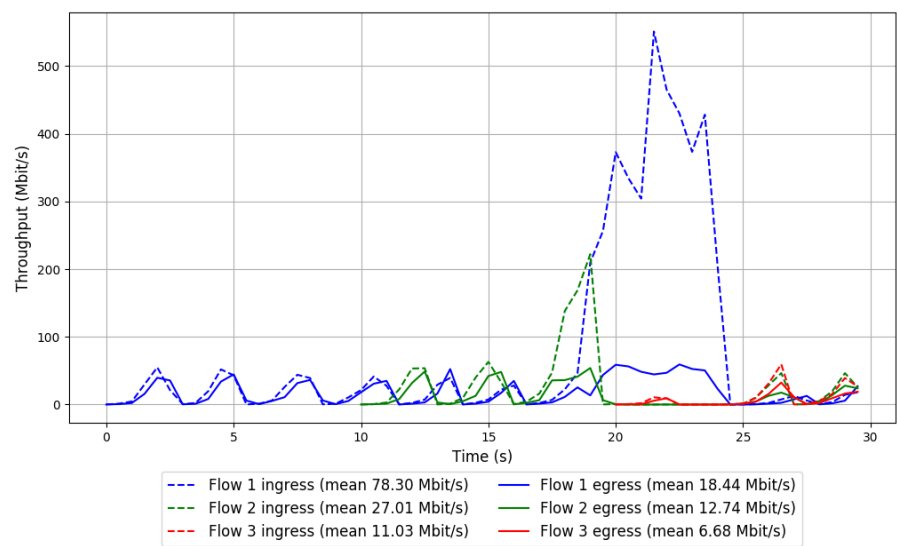


Run 9: Statistics of Verus

Start at: 2018-04-24 23:54:54
End at: 2018-04-24 23:55:24
Local clock offset: -1.512 ms
Remote clock offset: -1.7 ms

Below is generated by plot.py at 2018-04-25 01:10:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 29.02 Mbit/s
95th percentile per-packet one-way delay: 180.342 ms
Loss rate: 70.90%
-- Flow 1:
Average throughput: 18.44 Mbit/s
95th percentile per-packet one-way delay: 186.683 ms
Loss rate: 76.46%
-- Flow 2:
Average throughput: 12.74 Mbit/s
95th percentile per-packet one-way delay: 159.696 ms
Loss rate: 52.81%
-- Flow 3:
Average throughput: 6.68 Mbit/s
95th percentile per-packet one-way delay: 157.846 ms
Loss rate: 39.39%

Run 9: Report of Verus — Data Link

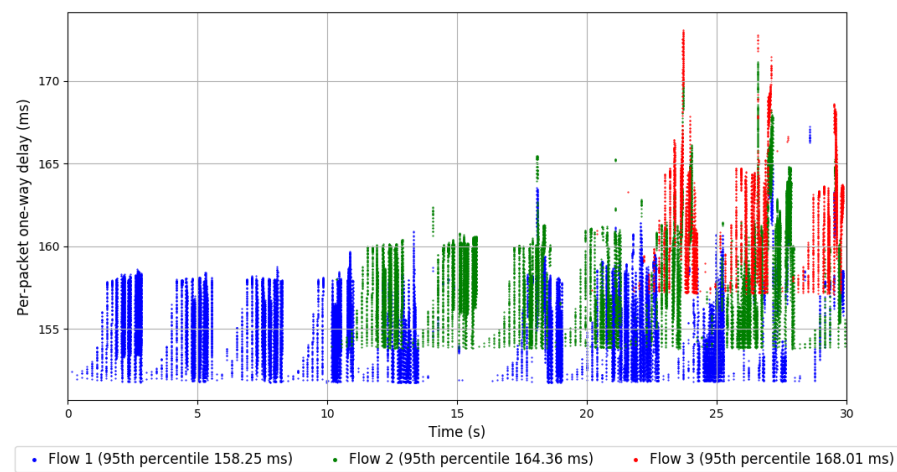
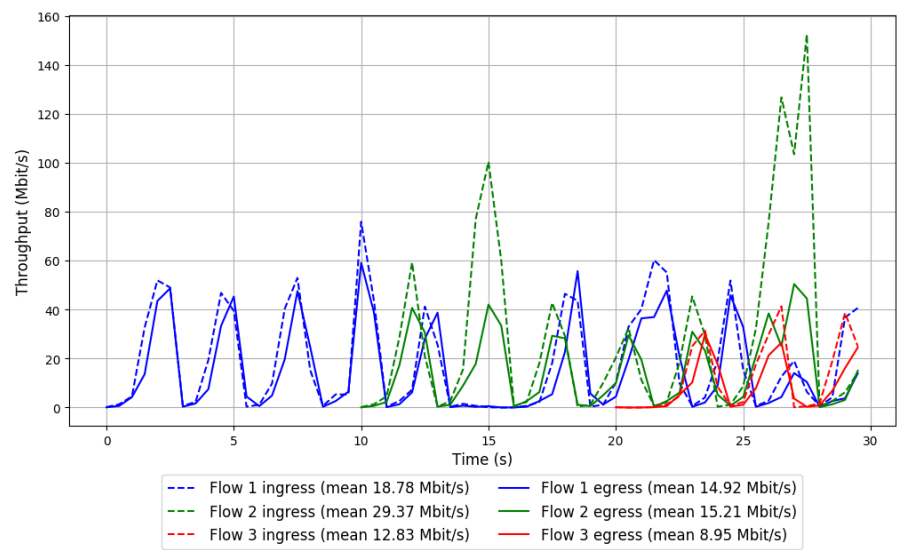


Run 10: Statistics of Verus

Start at: 2018-04-25 00:17:40
End at: 2018-04-25 00:18:10
Local clock offset: -4.834 ms
Remote clock offset: -1.731 ms

Below is generated by plot.py at 2018-04-25 01:10:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 27.89 Mbit/s
95th percentile per-packet one-way delay: 163.545 ms
Loss rate: 34.22%
-- Flow 1:
Average throughput: 14.92 Mbit/s
95th percentile per-packet one-way delay: 158.247 ms
Loss rate: 20.57%
-- Flow 2:
Average throughput: 15.21 Mbit/s
95th percentile per-packet one-way delay: 164.356 ms
Loss rate: 48.22%
-- Flow 3:
Average throughput: 8.95 Mbit/s
95th percentile per-packet one-way delay: 168.009 ms
Loss rate: 30.14%

Run 10: Report of Verus — Data Link

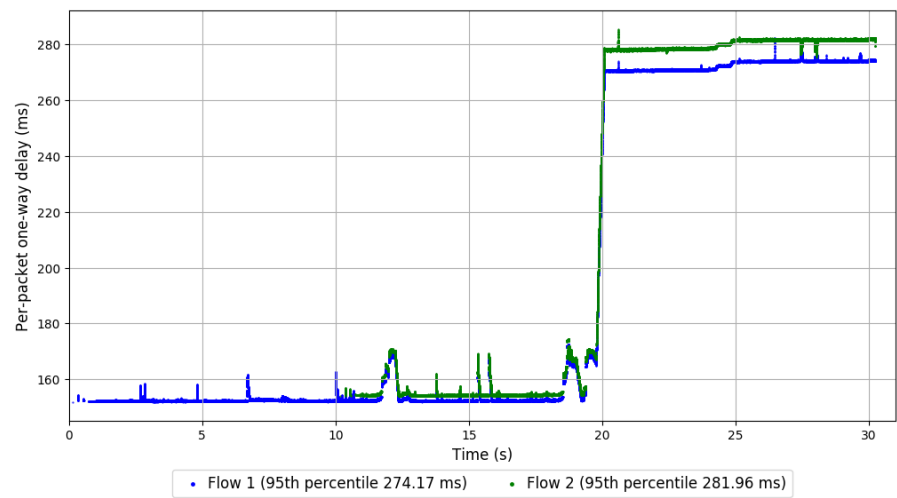
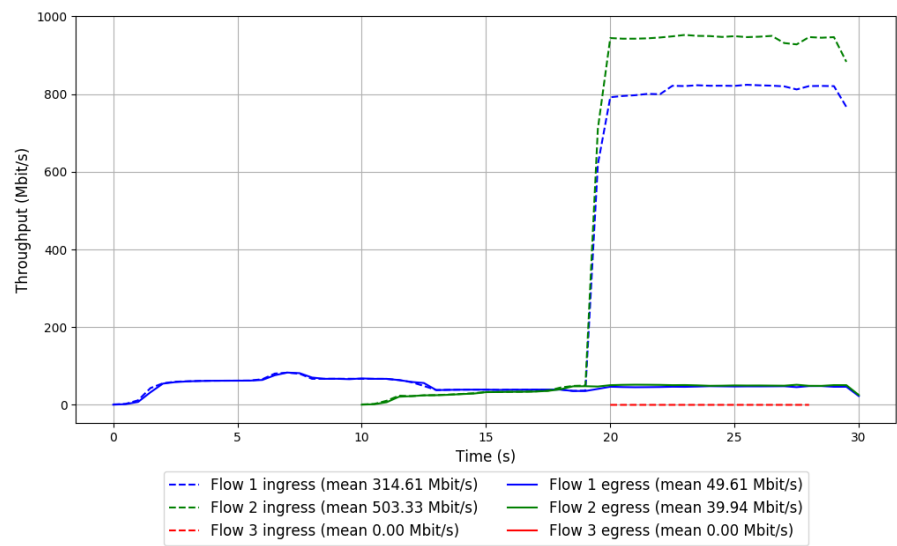


Run 1: Statistics of Copa

Start at: 2018-04-24 20:53:15
End at: 2018-04-24 20:53:45
Local clock offset: 4.045 ms
Remote clock offset: -0.521 ms

Below is generated by plot.py at 2018-04-25 01:15:32
Datalink statistics
-- Total of 3 flows:
Average throughput: 76.25 Mbit/s
95th percentile per-packet one-way delay: 281.740 ms
Loss rate: 88.22%
-- Flow 1:
Average throughput: 49.61 Mbit/s
95th percentile per-packet one-way delay: 274.171 ms
Loss rate: 84.17%
-- Flow 2:
Average throughput: 39.94 Mbit/s
95th percentile per-packet one-way delay: 281.960 ms
Loss rate: 92.02%
-- Flow 3:
Average throughput: 0.00 Mbit/s

Run 1: Report of Copa — Data Link

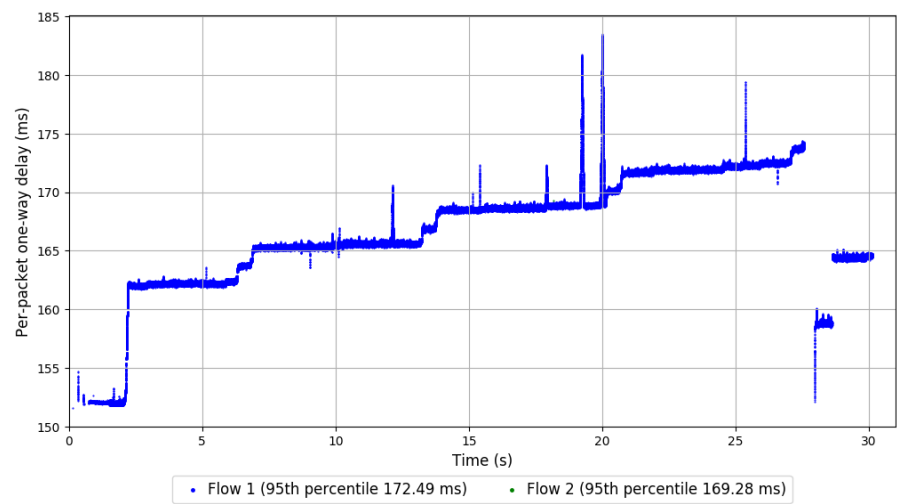
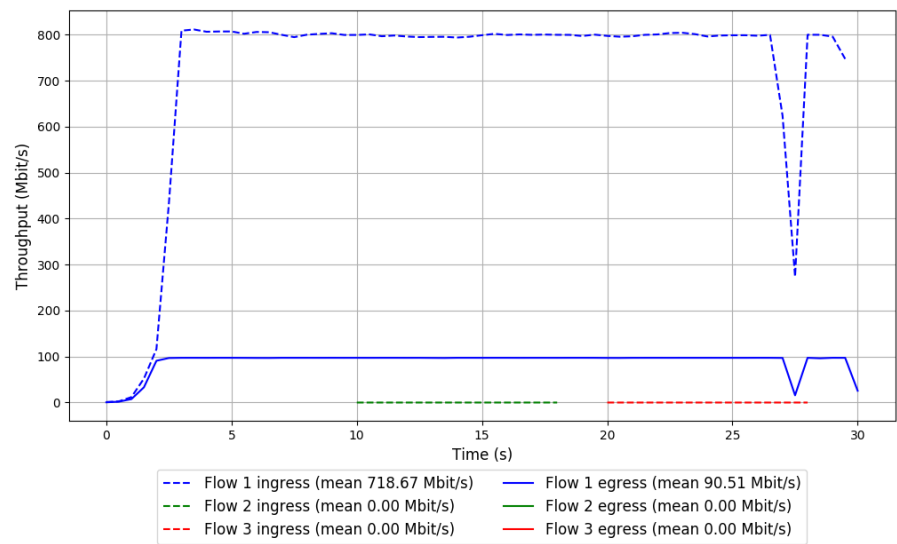


Run 2: Statistics of Copa

Start at: 2018-04-24 21:16:28
End at: 2018-04-24 21:16:58
Local clock offset: 2.551 ms
Remote clock offset: -0.584 ms

Below is generated by plot.py at 2018-04-25 01:16:02
Datalink statistics
-- Total of 3 flows:
Average throughput: 90.51 Mbit/s
95th percentile per-packet one-way delay: 172.485 ms
Loss rate: 87.40%
-- Flow 1:
Average throughput: 90.51 Mbit/s
95th percentile per-packet one-way delay: 172.485 ms
Loss rate: 87.40%
-- Flow 2:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 169.275 ms
Loss rate: 80.00%
-- 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 21:39:39

End at: 2018-04-24 21:40:09

Local clock offset: -0.79 ms

Remote clock offset: 2.627 ms

Below is generated by plot.py at 2018-04-25 01:16:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 56.85 Mbit/s

95th percentile per-packet one-way delay: 165.647 ms

Loss rate: 0.18%

-- Flow 1:

Average throughput: 31.28 Mbit/s

95th percentile per-packet one-way delay: 168.211 ms

Loss rate: 0.24%

-- Flow 2:

Average throughput: 32.62 Mbit/s

95th percentile per-packet one-way delay: 161.587 ms

Loss rate: 0.09%

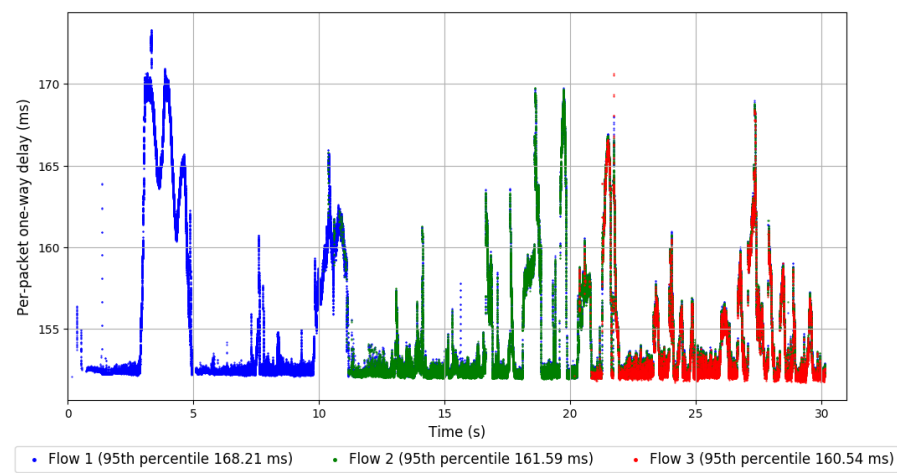
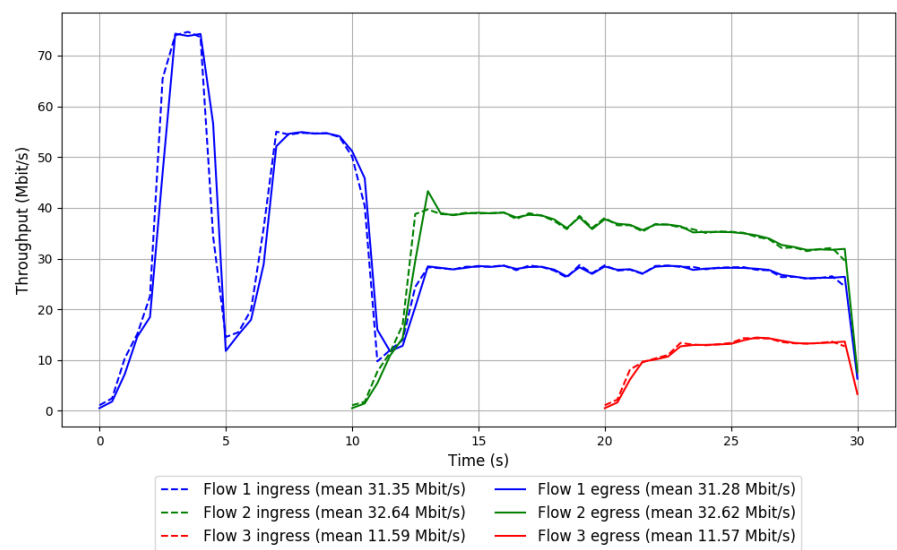
-- Flow 3:

Average throughput: 11.57 Mbit/s

95th percentile per-packet one-way delay: 160.544 ms

Loss rate: 0.11%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-04-24 22:02:39

End at: 2018-04-24 22:03:09

Local clock offset: -5.55 ms

Remote clock offset: 4.447 ms

Below is generated by plot.py at 2018-04-25 01:16:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 72.56 Mbit/s

95th percentile per-packet one-way delay: 161.634 ms

Loss rate: 0.20%

-- Flow 1:

Average throughput: 49.39 Mbit/s

95th percentile per-packet one-way delay: 162.111 ms

Loss rate: 0.20%

-- Flow 2:

Average throughput: 27.82 Mbit/s

95th percentile per-packet one-way delay: 160.575 ms

Loss rate: 0.20%

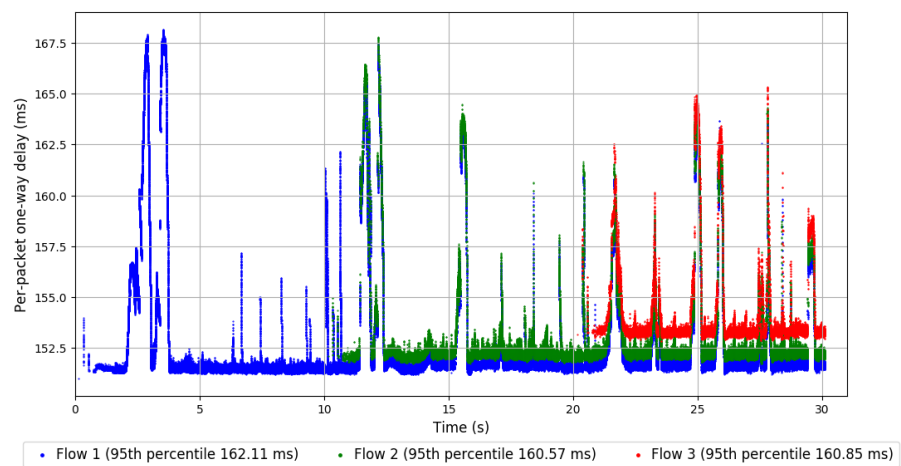
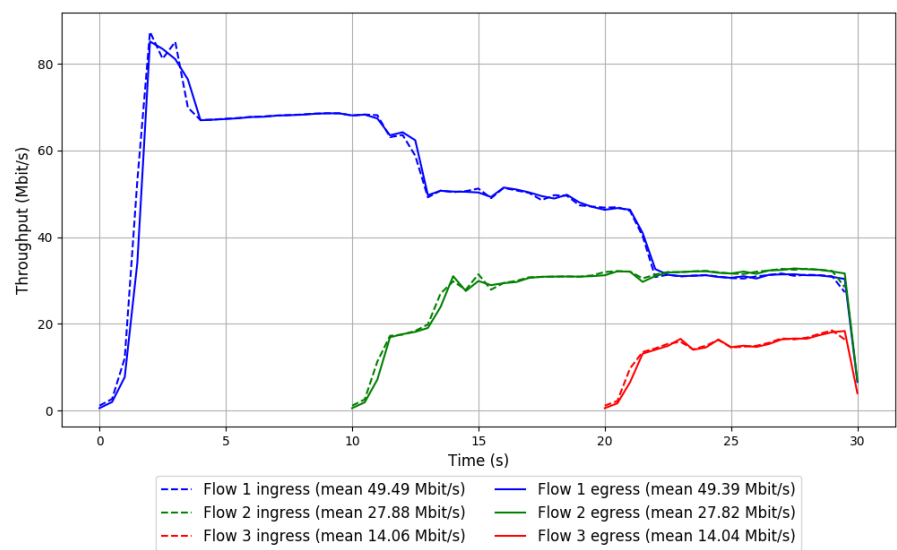
-- Flow 3:

Average throughput: 14.04 Mbit/s

95th percentile per-packet one-way delay: 160.855 ms

Loss rate: 0.20%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-04-24 22:25:28

End at: 2018-04-24 22:25:58

Local clock offset: 3.707 ms

Remote clock offset: 5.412 ms

Below is generated by plot.py at 2018-04-25 01:16:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 68.84 Mbit/s

95th percentile per-packet one-way delay: 166.631 ms

Loss rate: 0.26%

-- Flow 1:

Average throughput: 42.58 Mbit/s

95th percentile per-packet one-way delay: 165.796 ms

Loss rate: 0.21%

-- Flow 2:

Average throughput: 30.75 Mbit/s

95th percentile per-packet one-way delay: 168.837 ms

Loss rate: 0.33%

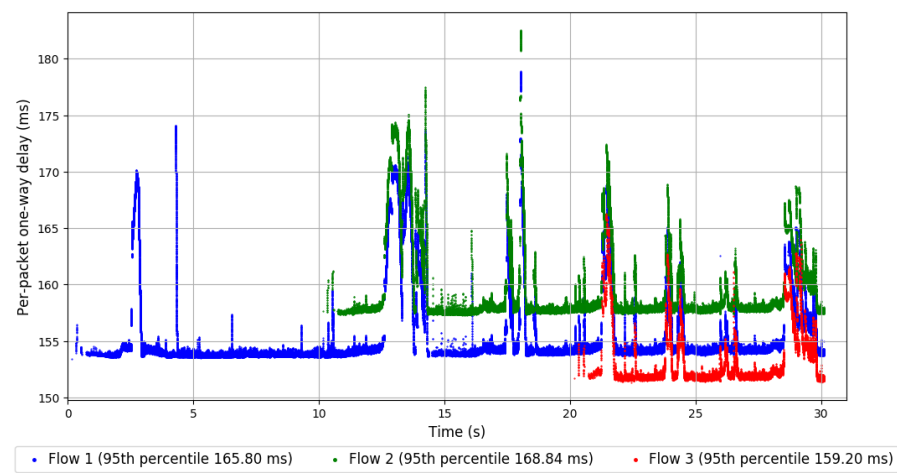
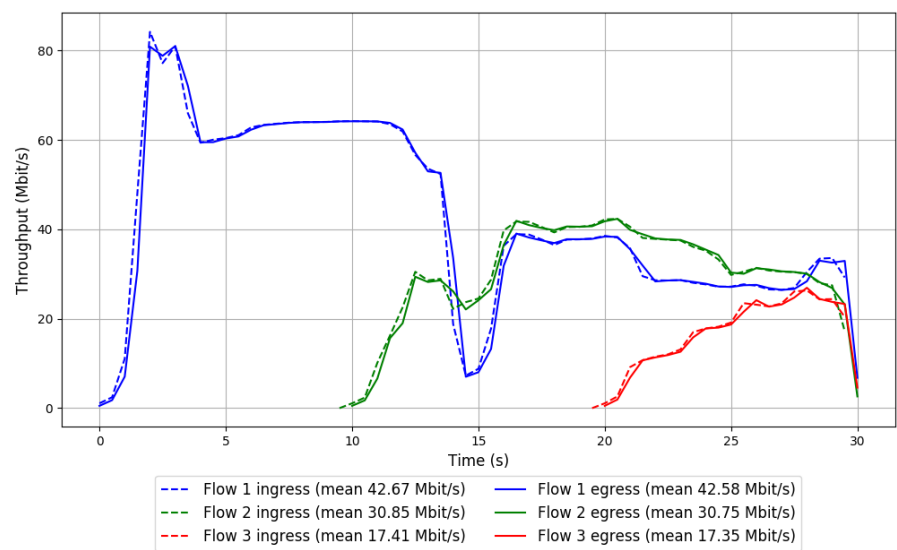
-- Flow 3:

Average throughput: 17.35 Mbit/s

95th percentile per-packet one-way delay: 159.201 ms

Loss rate: 0.37%

Run 5: Report of Copa — Data Link

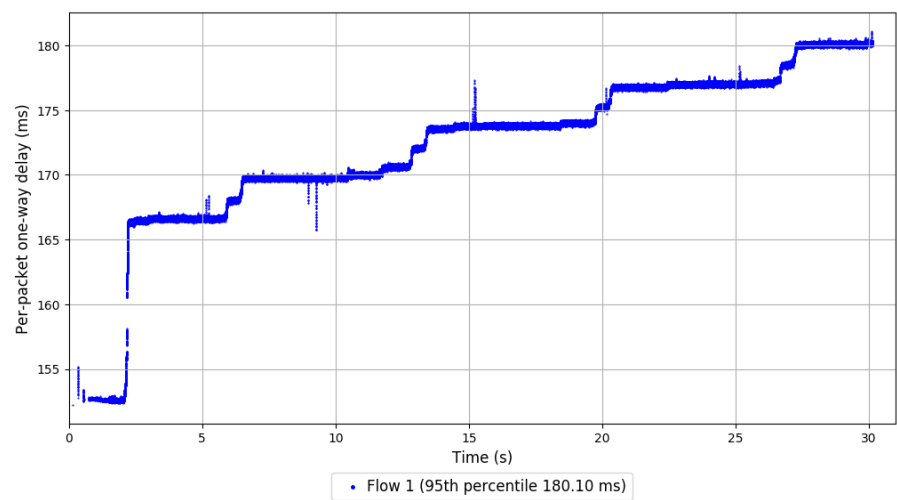
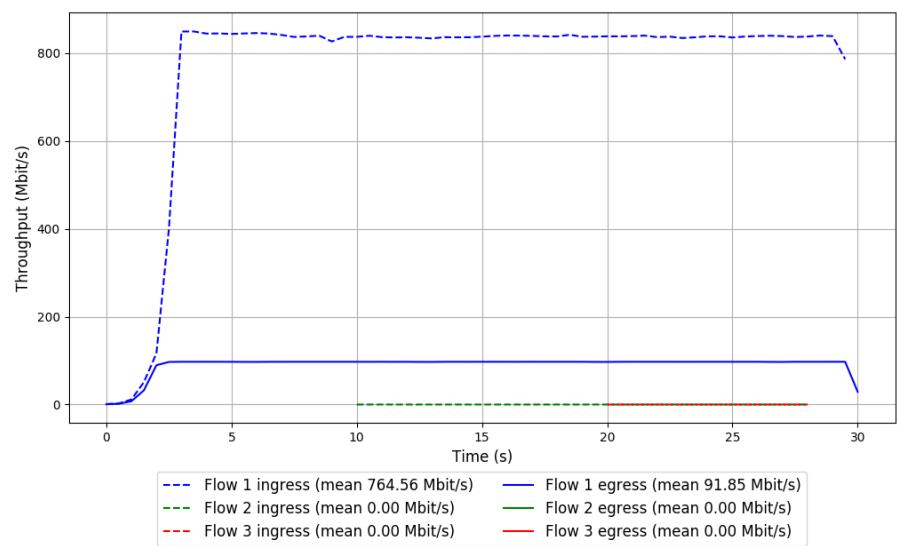


Run 6: Statistics of Copa

Start at: 2018-04-24 22:48:26
End at: 2018-04-24 22:48:56
Local clock offset: 1.76 ms
Remote clock offset: -0.789 ms

Below is generated by plot.py at 2018-04-25 01:16:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 91.85 Mbit/s
95th percentile per-packet one-way delay: 180.104 ms
Loss rate: 87.98%
-- Flow 1:
Average throughput: 91.85 Mbit/s
95th percentile per-packet one-way delay: 180.104 ms
Loss rate: 87.98%
-- Flow 2:
Average throughput: 0.00 Mbit/s
-- Flow 3:
Average throughput: 0.00 Mbit/s

Run 6: Report of Copa — Data Link

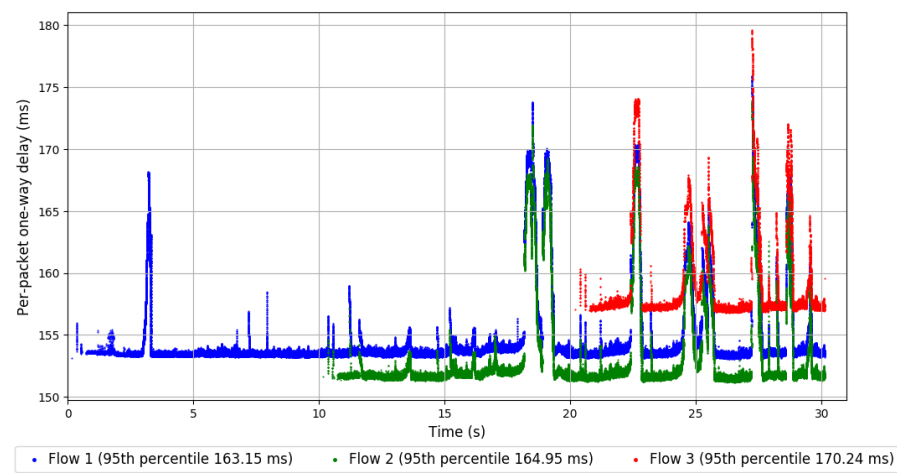
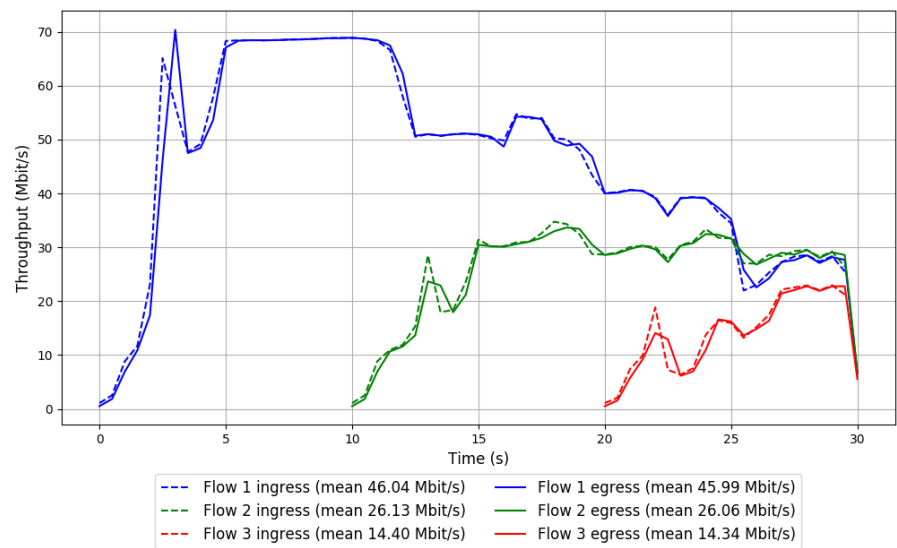


Run 7: Statistics of Copa

Start at: 2018-04-24 23:11:27
End at: 2018-04-24 23:11:57
Local clock offset: -3.031 ms
Remote clock offset: -4.136 ms

Below is generated by plot.py at 2018-04-25 01:16:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 68.10 Mbit/s
95th percentile per-packet one-way delay: 164.704 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 45.99 Mbit/s
95th percentile per-packet one-way delay: 163.146 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 26.06 Mbit/s
95th percentile per-packet one-way delay: 164.953 ms
Loss rate: 0.28%
-- Flow 3:
Average throughput: 14.34 Mbit/s
95th percentile per-packet one-way delay: 170.239 ms
Loss rate: 0.43%

Run 7: Report of Copa — Data Link

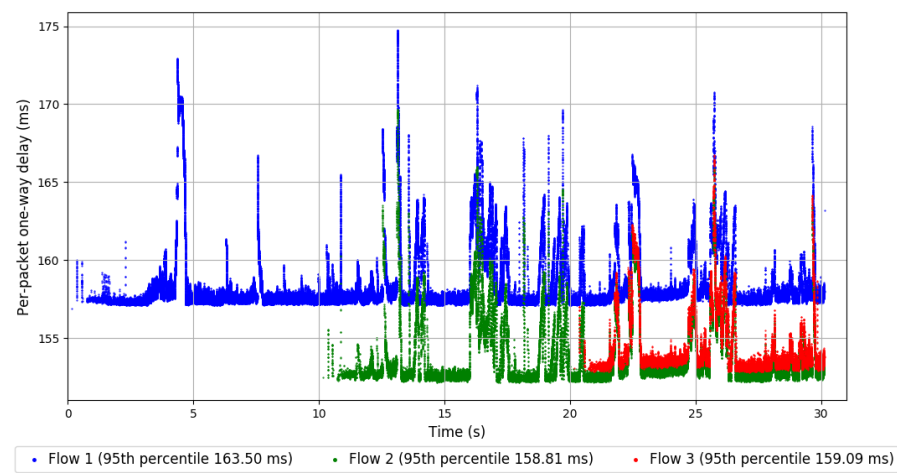
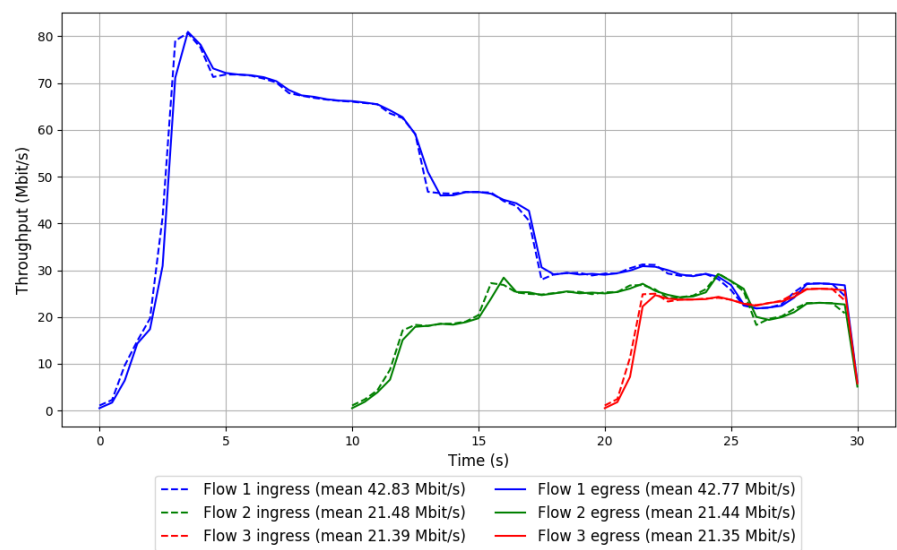


Run 8: Statistics of Copa

Start at: 2018-04-24 23:34:16
End at: 2018-04-24 23:34:46
Local clock offset: -0.376 ms
Remote clock offset: -1.811 ms

```
# Below is generated by plot.py at 2018-04-25 01:16:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 64.14 Mbit/s
95th percentile per-packet one-way delay: 162.248 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 42.77 Mbit/s
95th percentile per-packet one-way delay: 163.505 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 21.44 Mbit/s
95th percentile per-packet one-way delay: 158.806 ms
Loss rate: 0.19%
-- Flow 3:
Average throughput: 21.35 Mbit/s
95th percentile per-packet one-way delay: 159.090 ms
Loss rate: 0.18%
```

Run 8: Report of Copa — Data Link

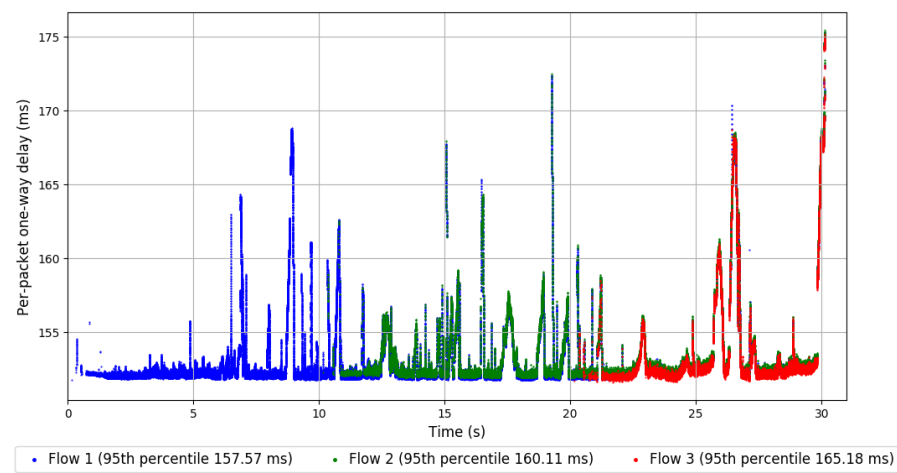
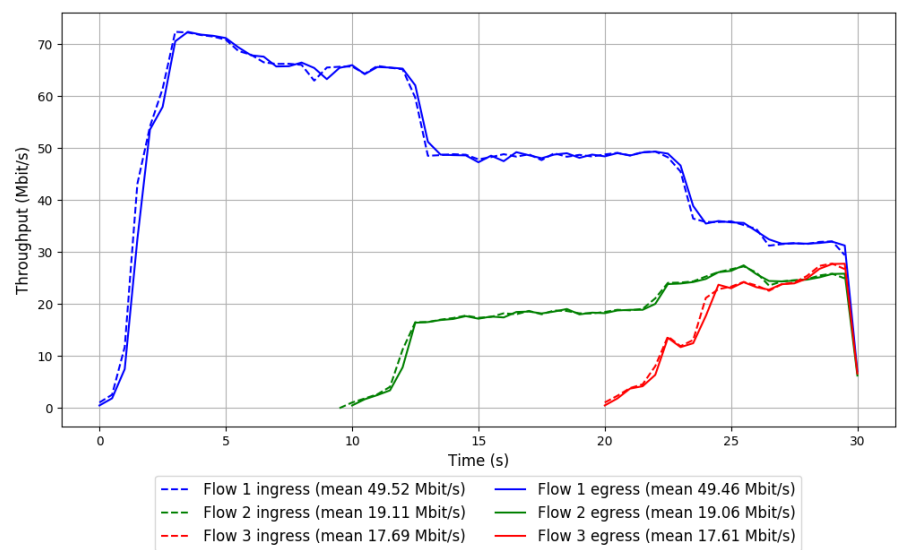


Run 9: Statistics of Copa

Start at: 2018-04-24 23:57:37
End at: 2018-04-24 23:58:07
Local clock offset: -2.361 ms
Remote clock offset: -1.758 ms

Below is generated by plot.py at 2018-04-25 01:16:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 68.01 Mbit/s
95th percentile per-packet one-way delay: 158.680 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 49.46 Mbit/s
95th percentile per-packet one-way delay: 157.567 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 19.06 Mbit/s
95th percentile per-packet one-way delay: 160.108 ms
Loss rate: 0.16%
-- Flow 3:
Average throughput: 17.61 Mbit/s
95th percentile per-packet one-way delay: 165.179 ms
Loss rate: 0.28%

Run 9: Report of Copa — Data Link

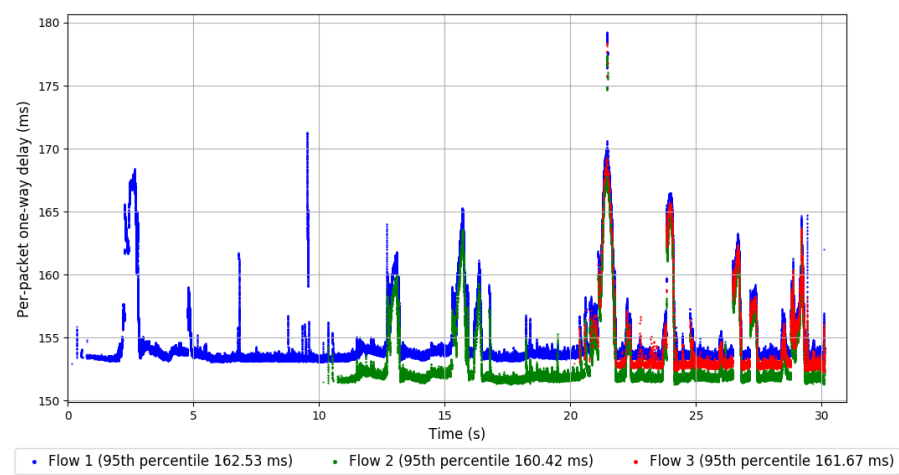
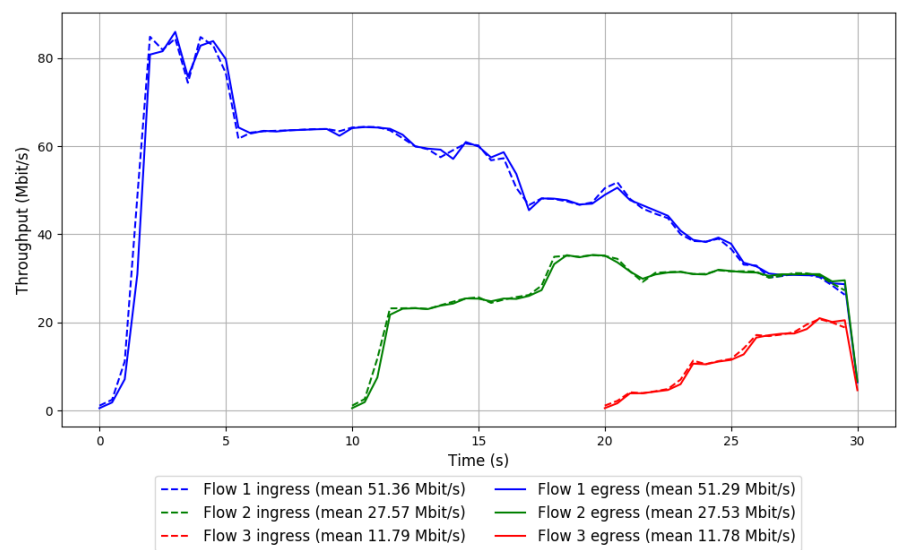


Run 10: Statistics of Copa

Start at: 2018-04-25 00:20:21
End at: 2018-04-25 00:20:51
Local clock offset: -5.036 ms
Remote clock offset: -1.505 ms

Below is generated by plot.py at 2018-04-25 01:16:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 73.54 Mbit/s
95th percentile per-packet one-way delay: 162.075 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 51.29 Mbit/s
95th percentile per-packet one-way delay: 162.533 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 27.53 Mbit/s
95th percentile per-packet one-way delay: 160.423 ms
Loss rate: 0.15%
-- Flow 3:
Average throughput: 11.78 Mbit/s
95th percentile per-packet one-way delay: 161.669 ms
Loss rate: 0.03%

Run 10: Report of Copa — Data Link

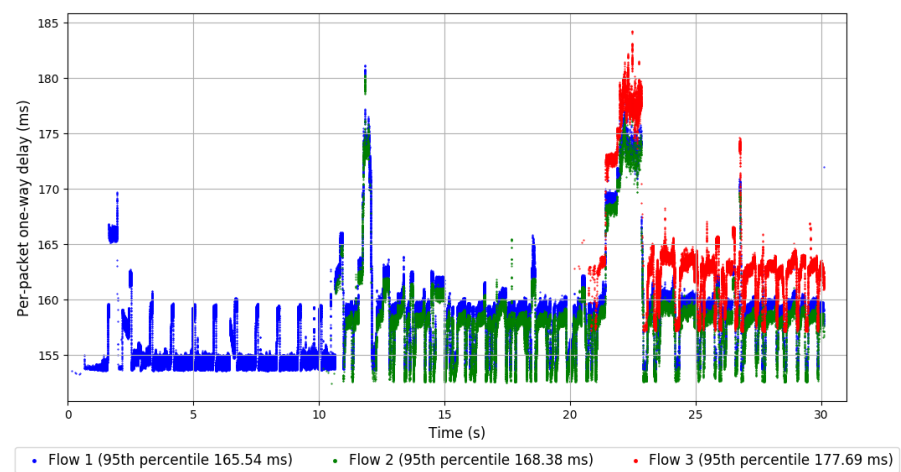
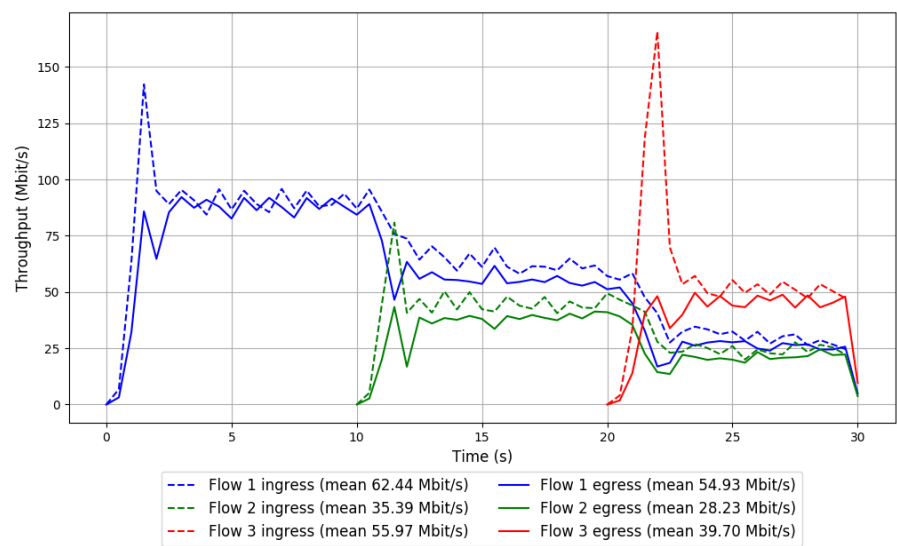


Run 1: Statistics of FillP

Start at: 2018-04-24 20:58:48
End at: 2018-04-24 20:59:18
Local clock offset: 4.308 ms
Remote clock offset: -0.488 ms

Below is generated by plot.py at 2018-04-25 01:16:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 86.87 Mbit/s
95th percentile per-packet one-way delay: 169.218 ms
Loss rate: 16.87%
-- Flow 1:
Average throughput: 54.93 Mbit/s
95th percentile per-packet one-way delay: 165.545 ms
Loss rate: 11.97%
-- Flow 2:
Average throughput: 28.23 Mbit/s
95th percentile per-packet one-way delay: 168.378 ms
Loss rate: 20.22%
-- Flow 3:
Average throughput: 39.70 Mbit/s
95th percentile per-packet one-way delay: 177.692 ms
Loss rate: 29.10%

Run 1: Report of FillP — Data Link

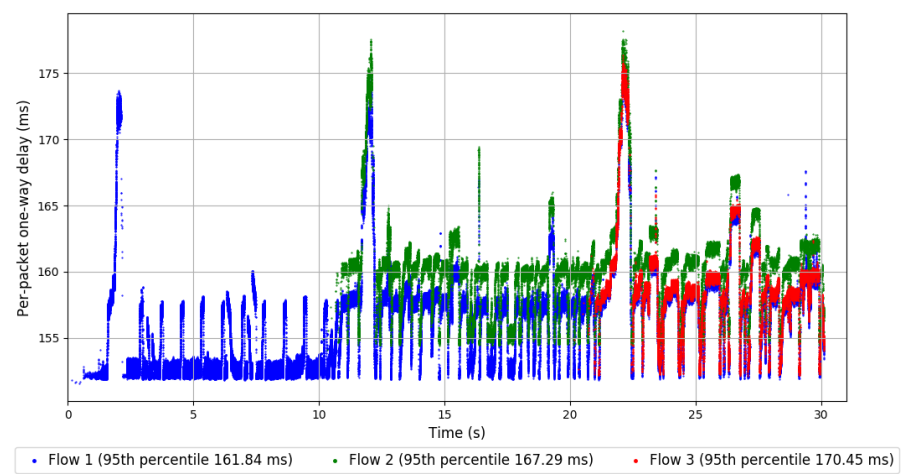
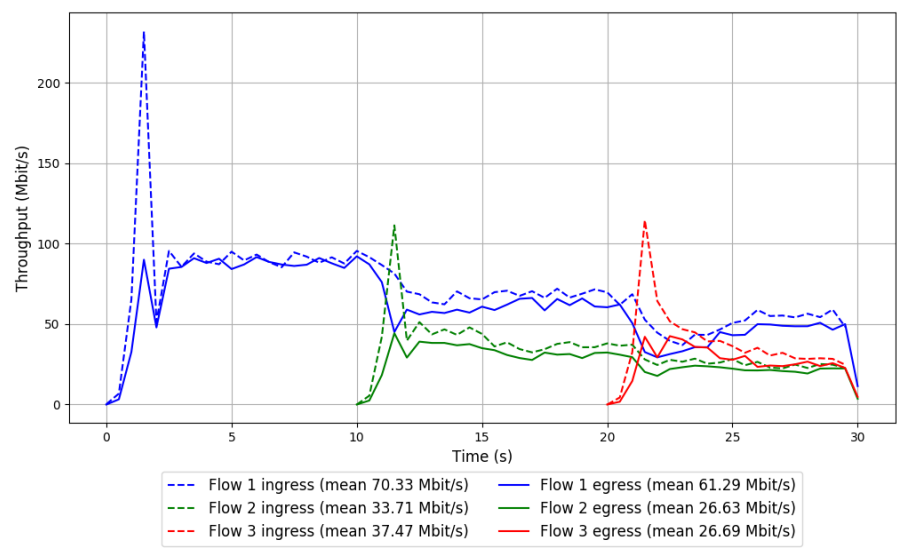


Run 2: Statistics of FillP

Start at: 2018-04-24 21:21:59
End at: 2018-04-24 21:22:29
Local clock offset: 2.462 ms
Remote clock offset: -0.561 ms

Below is generated by plot.py at 2018-04-25 01:16:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 87.85 Mbit/s
95th percentile per-packet one-way delay: 164.300 ms
Loss rate: 16.47%
-- Flow 1:
Average throughput: 61.29 Mbit/s
95th percentile per-packet one-way delay: 161.843 ms
Loss rate: 12.85%
-- Flow 2:
Average throughput: 26.63 Mbit/s
95th percentile per-packet one-way delay: 167.290 ms
Loss rate: 20.99%
-- Flow 3:
Average throughput: 26.69 Mbit/s
95th percentile per-packet one-way delay: 170.449 ms
Loss rate: 28.79%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-04-24 21:44:56

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

Local clock offset: -2.727 ms

Remote clock offset: 3.247 ms

Below is generated by plot.py at 2018-04-25 01:16:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 80.28 Mbit/s

95th percentile per-packet one-way delay: 172.680 ms

Loss rate: 24.25%

-- Flow 1:

Average throughput: 32.80 Mbit/s

95th percentile per-packet one-way delay: 171.822 ms

Loss rate: 23.02%

-- Flow 2:

Average throughput: 40.45 Mbit/s

95th percentile per-packet one-way delay: 173.156 ms

Loss rate: 29.38%

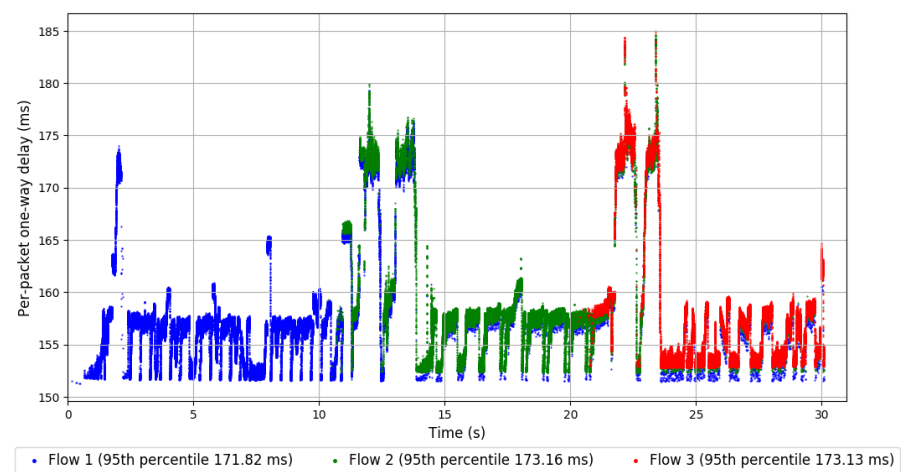
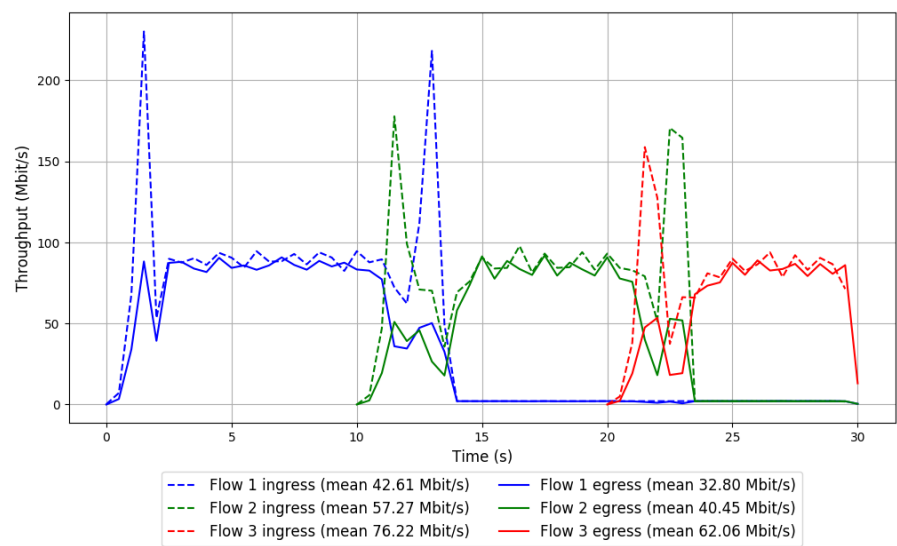
-- Flow 3:

Average throughput: 62.06 Mbit/s

95th percentile per-packet one-way delay: 173.132 ms

Loss rate: 18.61%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-04-24 22:07:57

End at: 2018-04-24 22:08:27

Local clock offset: -6.295 ms

Remote clock offset: 4.738 ms

Below is generated by plot.py at 2018-04-25 01:16:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 83.98 Mbit/s

95th percentile per-packet one-way delay: 167.970 ms

Loss rate: 15.16%

-- Flow 1:

Average throughput: 33.75 Mbit/s

95th percentile per-packet one-way delay: 169.090 ms

Loss rate: 18.27%

-- Flow 2:

Average throughput: 61.81 Mbit/s

95th percentile per-packet one-way delay: 168.012 ms

Loss rate: 12.04%

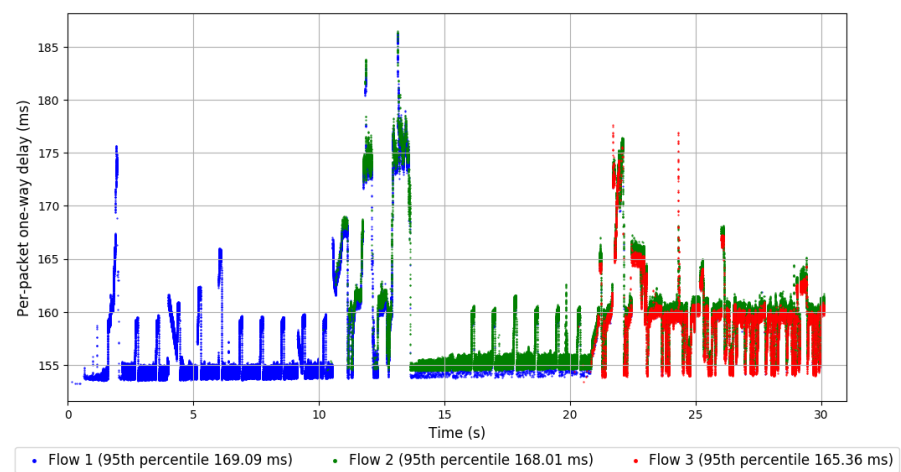
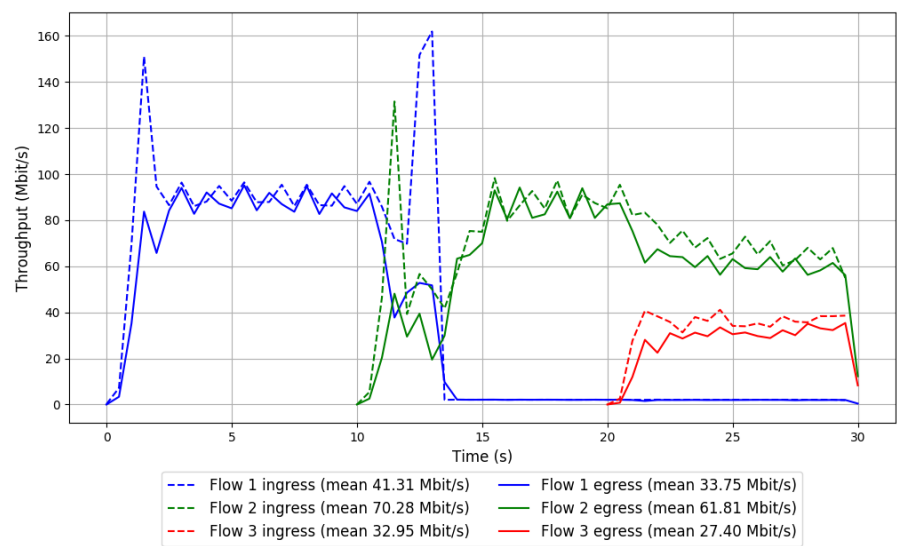
-- Flow 3:

Average throughput: 27.40 Mbit/s

95th percentile per-packet one-way delay: 165.364 ms

Loss rate: 16.80%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-04-24 22:30:46

End at: 2018-04-24 22:31:16

Local clock offset: 5.035 ms

Remote clock offset: 5.602 ms

Below is generated by plot.py at 2018-04-25 01:16:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 76.59 Mbit/s

95th percentile per-packet one-way delay: 178.235 ms

Loss rate: 28.16%

-- Flow 1:

Average throughput: 34.24 Mbit/s

95th percentile per-packet one-way delay: 179.425 ms

Loss rate: 24.31%

-- Flow 2:

Average throughput: 31.55 Mbit/s

95th percentile per-packet one-way delay: 178.251 ms

Loss rate: 38.78%

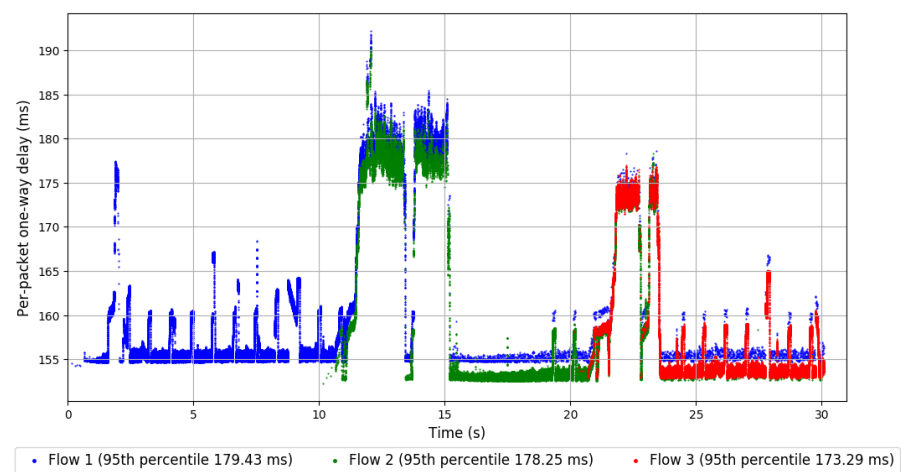
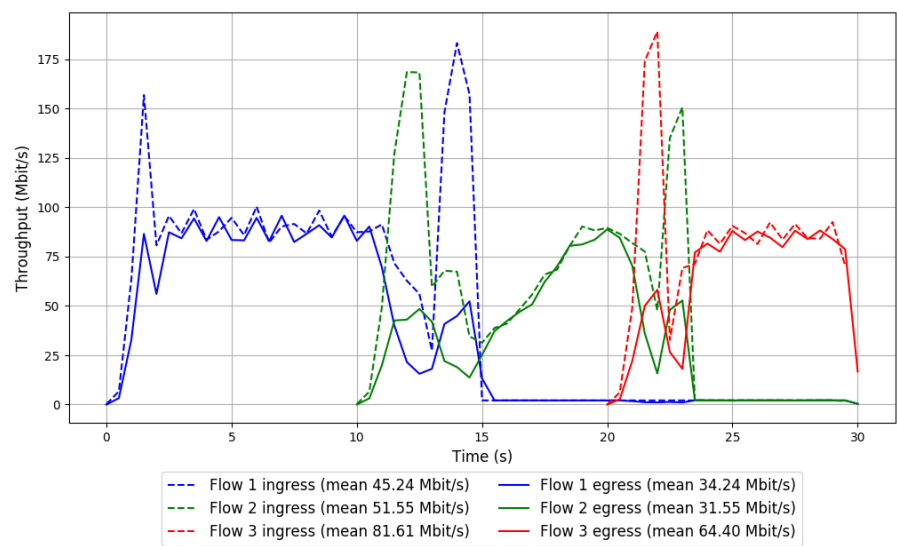
-- Flow 3:

Average throughput: 64.40 Mbit/s

95th percentile per-packet one-way delay: 173.294 ms

Loss rate: 21.12%

Run 5: Report of FillP — Data Link

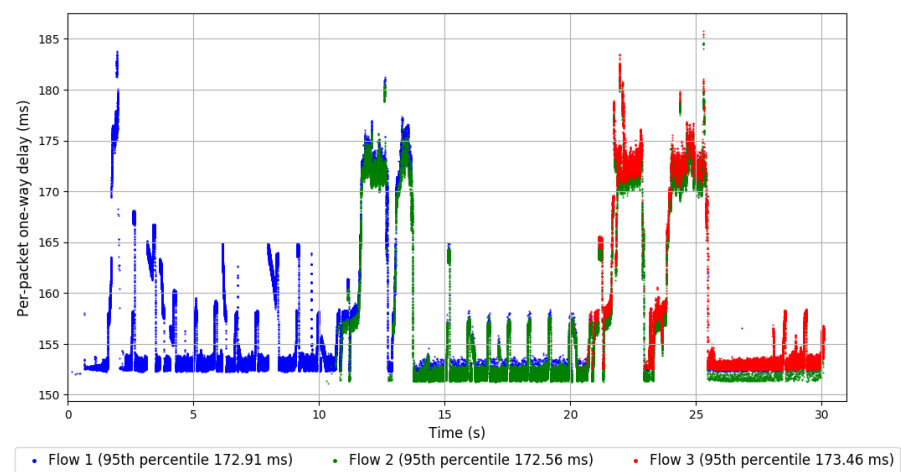
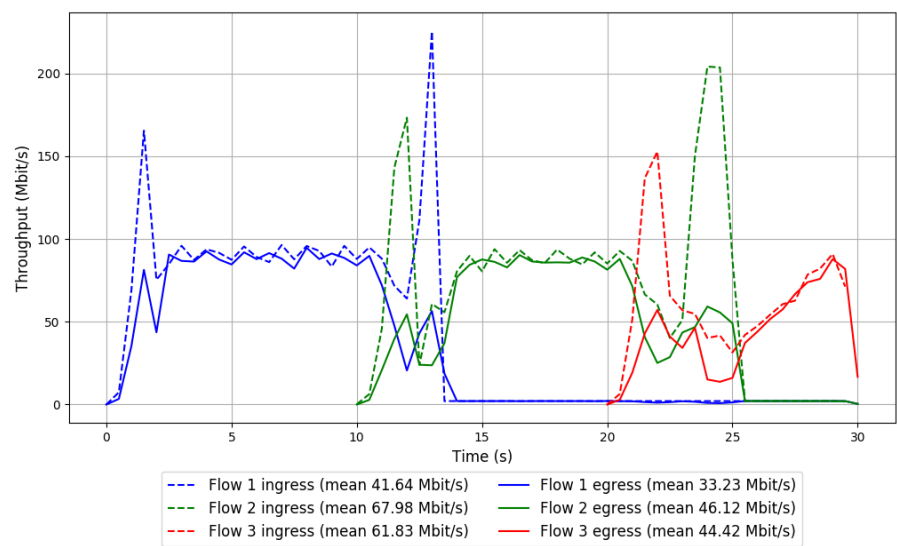


Run 6: Statistics of FillP

Start at: 2018-04-24 22:53:58
End at: 2018-04-24 22:54:28
Local clock offset: -0.498 ms
Remote clock offset: -2.177 ms

Below is generated by plot.py at 2018-04-25 01:16:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 78.65 Mbit/s
95th percentile per-packet one-way delay: 172.905 ms
Loss rate: 26.76%
-- Flow 1:
Average throughput: 33.23 Mbit/s
95th percentile per-packet one-way delay: 172.913 ms
Loss rate: 20.20%
-- Flow 2:
Average throughput: 46.12 Mbit/s
95th percentile per-packet one-way delay: 172.562 ms
Loss rate: 32.16%
-- Flow 3:
Average throughput: 44.42 Mbit/s
95th percentile per-packet one-way delay: 173.463 ms
Loss rate: 28.17%

Run 6: Report of FillP — Data Link

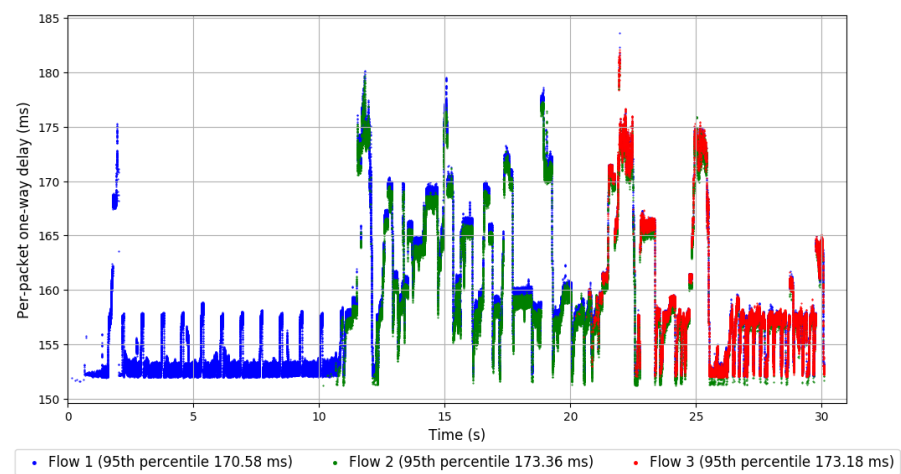
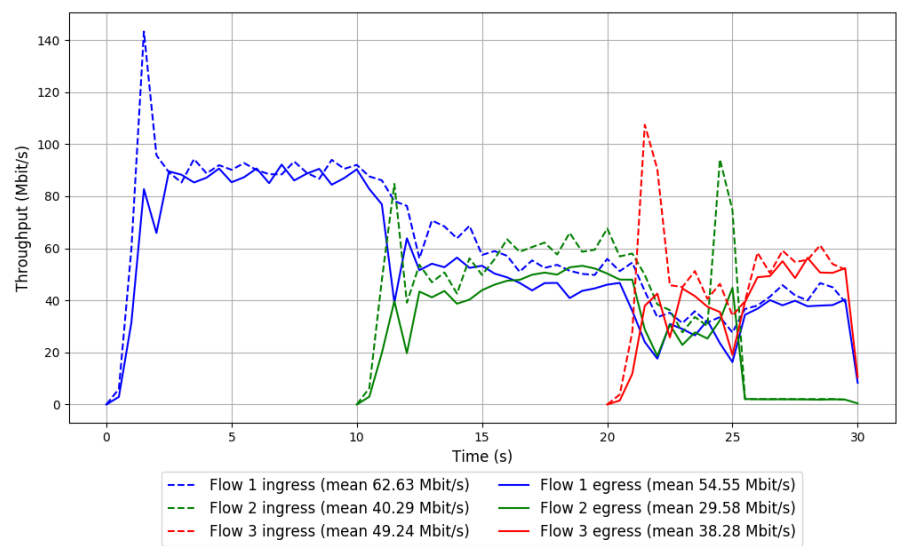


Run 7: Statistics of FillP

Start at: 2018-04-24 23:16:45
End at: 2018-04-24 23:17:15
Local clock offset: -2.931 ms
Remote clock offset: -2.615 ms

Below is generated by plot.py at 2018-04-25 01:16:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 86.93 Mbit/s
95th percentile per-packet one-way delay: 172.130 ms
Loss rate: 17.81%
-- Flow 1:
Average throughput: 54.55 Mbit/s
95th percentile per-packet one-way delay: 170.584 ms
Loss rate: 12.89%
-- Flow 2:
Average throughput: 29.58 Mbit/s
95th percentile per-packet one-way delay: 173.359 ms
Loss rate: 26.58%
-- Flow 3:
Average throughput: 38.28 Mbit/s
95th percentile per-packet one-way delay: 173.177 ms
Loss rate: 22.29%

Run 7: Report of FillP — Data Link

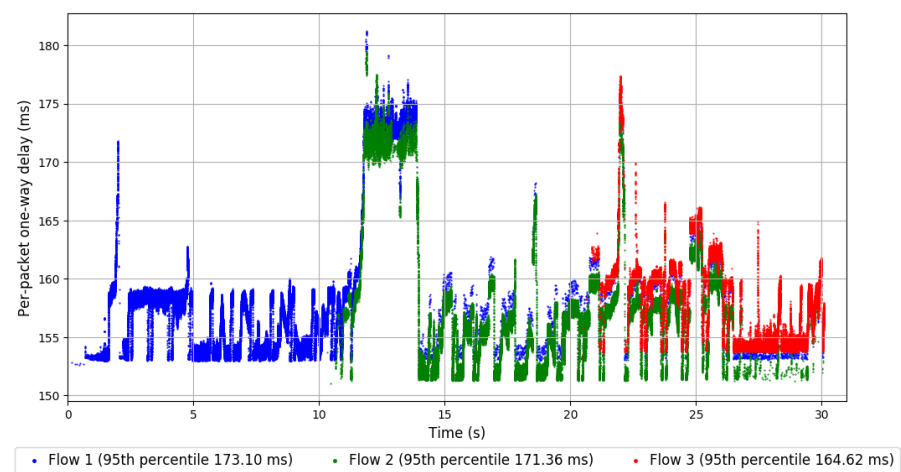
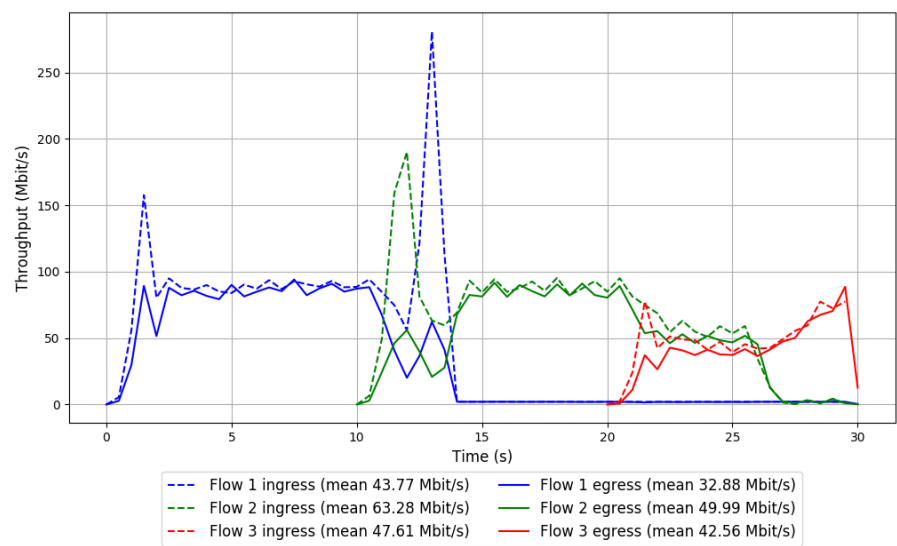


Run 8: Statistics of FillP

Start at: 2018-04-24 23:39:33
End at: 2018-04-24 23:40:03
Local clock offset: 0.084 ms
Remote clock offset: -1.758 ms

Below is generated by plot.py at 2018-04-25 01:16:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 80.01 Mbit/s
95th percentile per-packet one-way delay: 171.935 ms
Loss rate: 21.26%
-- Flow 1:
Average throughput: 32.88 Mbit/s
95th percentile per-packet one-way delay: 173.104 ms
Loss rate: 24.86%
-- Flow 2:
Average throughput: 49.99 Mbit/s
95th percentile per-packet one-way delay: 171.356 ms
Loss rate: 21.00%
-- Flow 3:
Average throughput: 42.56 Mbit/s
95th percentile per-packet one-way delay: 164.625 ms
Loss rate: 11.96%

Run 8: Report of FillP — Data Link

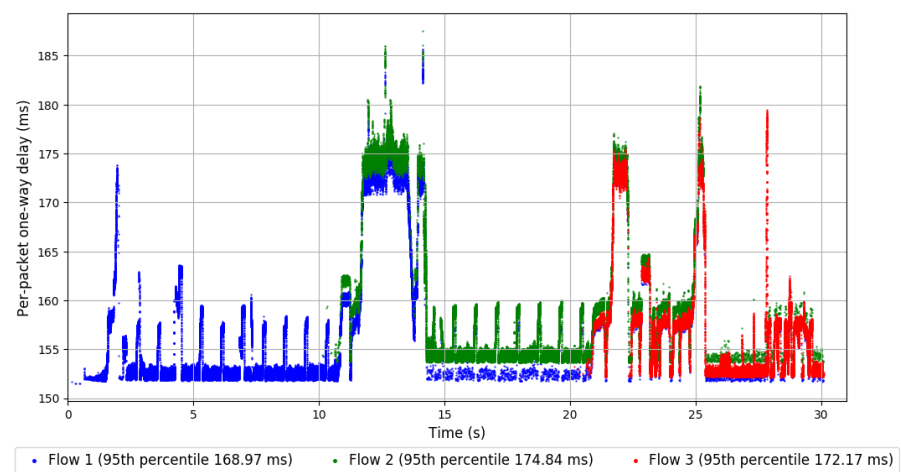
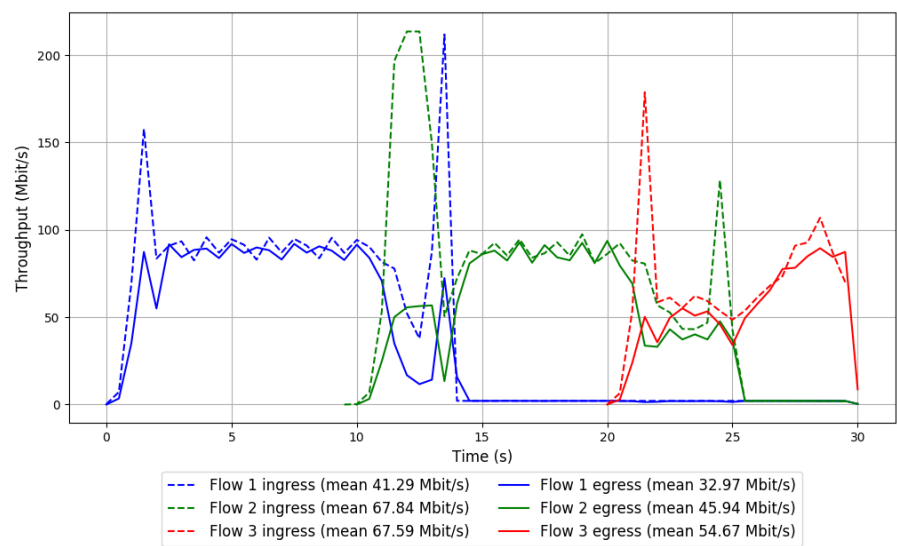


Run 9: Statistics of FillP

Start at: 2018-04-25 00:02:55
End at: 2018-04-25 00:03:25
Local clock offset: -3.403 ms
Remote clock offset: -1.729 ms

Below is generated by plot.py at 2018-04-25 01:16:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 81.69 Mbit/s
95th percentile per-packet one-way delay: 173.650 ms
Loss rate: 24.98%
-- Flow 1:
Average throughput: 32.97 Mbit/s
95th percentile per-packet one-way delay: 168.969 ms
Loss rate: 20.16%
-- Flow 2:
Average throughput: 45.94 Mbit/s
95th percentile per-packet one-way delay: 174.835 ms
Loss rate: 32.28%
-- Flow 3:
Average throughput: 54.67 Mbit/s
95th percentile per-packet one-way delay: 172.168 ms
Loss rate: 19.13%

Run 9: Report of FillP — Data Link

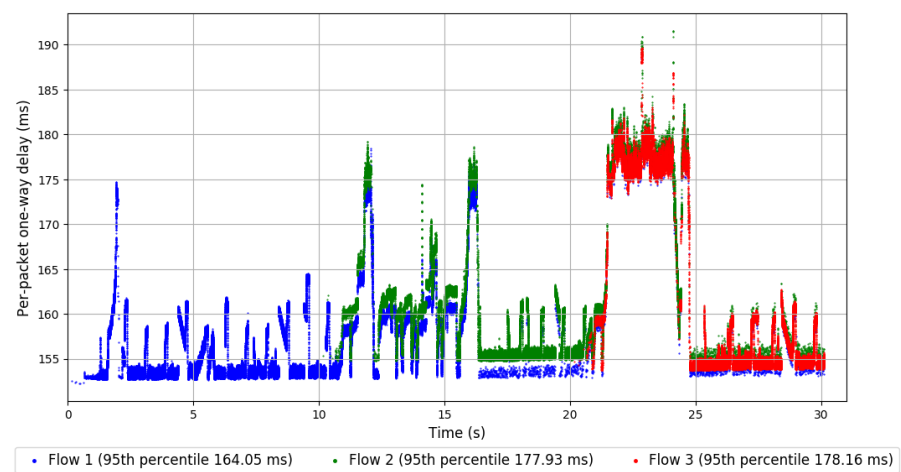
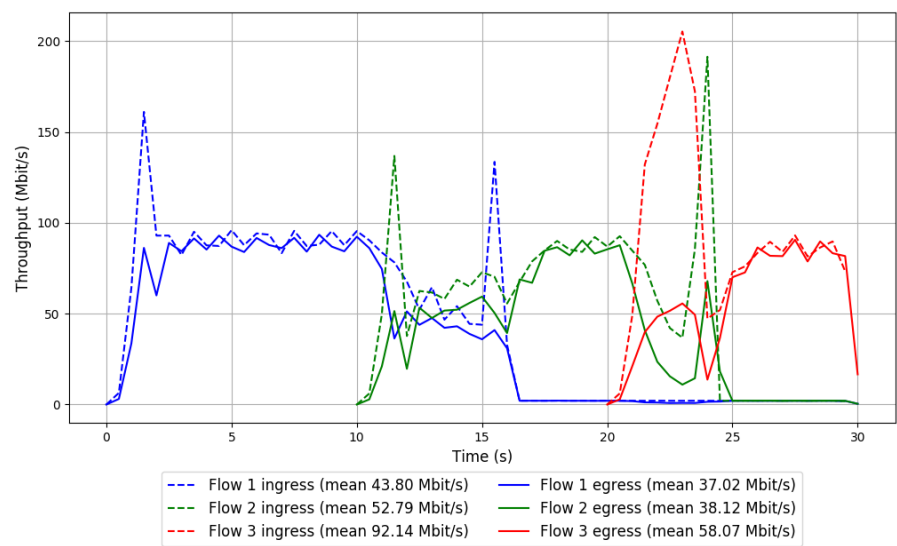


```
Run 10: Statistics of FillP

Start at: 2018-04-25 00:25:40
End at: 2018-04-25 00:26:10
Local clock offset: -4.095 ms
Remote clock offset: -17.449 ms

# Below is generated by plot.py at 2018-04-25 01:16:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 81.65 Mbit/s
95th percentile per-packet one-way delay: 176.910 ms
Loss rate: 25.41%
-- Flow 1:
Average throughput: 37.02 Mbit/s
95th percentile per-packet one-way delay: 164.047 ms
Loss rate: 15.47%
-- Flow 2:
Average throughput: 38.12 Mbit/s
95th percentile per-packet one-way delay: 177.929 ms
Loss rate: 27.77%
-- Flow 3:
Average throughput: 58.07 Mbit/s
95th percentile per-packet one-way delay: 178.165 ms
Loss rate: 36.96%
```

Run 10: Report of FillP — Data Link

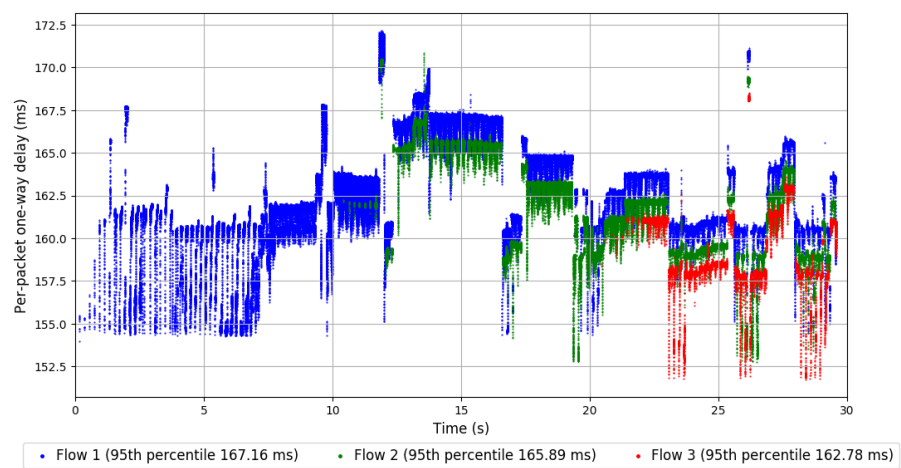
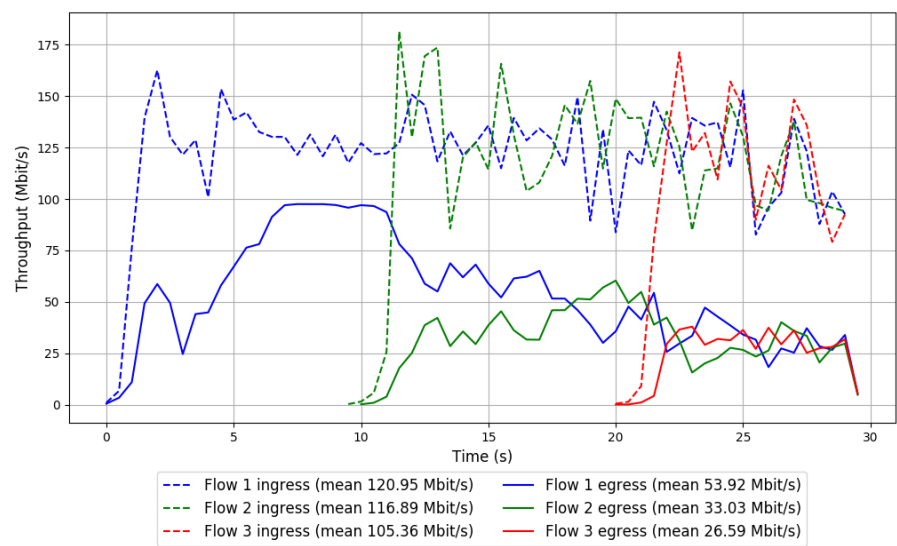


Run 1: Statistics of Indigo-1-32

Start at: 2018-04-24 21:06:40
End at: 2018-04-24 21:07:10
Local clock offset: 3.349 ms
Remote clock offset: -0.515 ms

Below is generated by plot.py at 2018-04-25 01:16:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 84.03 Mbit/s
95th percentile per-packet one-way delay: 167.030 ms
Loss rate: 63.62%
-- Flow 1:
Average throughput: 53.92 Mbit/s
95th percentile per-packet one-way delay: 167.165 ms
Loss rate: 55.40%
-- Flow 2:
Average throughput: 33.03 Mbit/s
95th percentile per-packet one-way delay: 165.888 ms
Loss rate: 71.74%
-- Flow 3:
Average throughput: 26.59 Mbit/s
95th percentile per-packet one-way delay: 162.776 ms
Loss rate: 74.75%

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



Run 2: Statistics of Indigo-1-32

Start at: 2018-04-24 21:29:53

End at: 2018-04-24 21:30:23

Local clock offset: 2.274 ms

Remote clock offset: 0.219 ms

Below is generated by plot.py at 2018-04-25 01:16:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.27 Mbit/s

95th percentile per-packet one-way delay: 167.332 ms

Loss rate: 62.64%

-- Flow 1:

Average throughput: 60.56 Mbit/s

95th percentile per-packet one-way delay: 166.820 ms

Loss rate: 52.13%

-- Flow 2:

Average throughput: 31.03 Mbit/s

95th percentile per-packet one-way delay: 168.528 ms

Loss rate: 72.58%

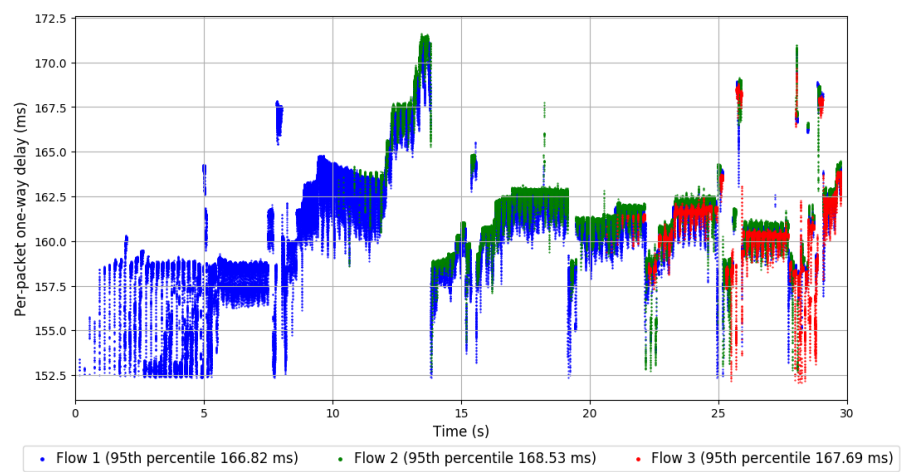
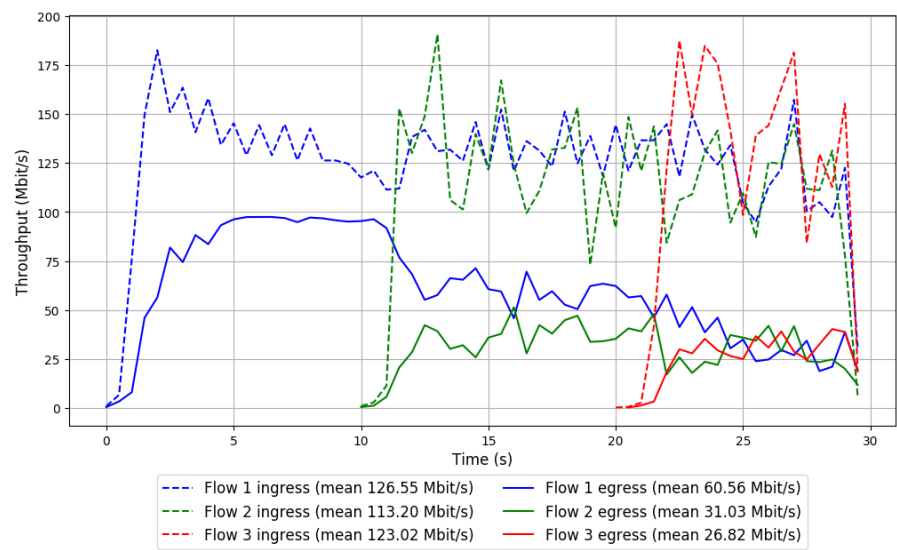
-- Flow 3:

Average throughput: 26.82 Mbit/s

95th percentile per-packet one-way delay: 167.694 ms

Loss rate: 78.19%

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



Run 3: Statistics of Indigo-1-32

Start at: 2018-04-24 21:52:49

End at: 2018-04-24 21:53:19

Local clock offset: -4.37 ms

Remote clock offset: 3.923 ms

Below is generated by plot.py at 2018-04-25 01:16:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.12 Mbit/s

95th percentile per-packet one-way delay: 163.286 ms

Loss rate: 64.88%

-- Flow 1:

Average throughput: 52.57 Mbit/s

95th percentile per-packet one-way delay: 162.822 ms

Loss rate: 57.14%

-- Flow 2:

Average throughput: 39.22 Mbit/s

95th percentile per-packet one-way delay: 163.336 ms

Loss rate: 68.75%

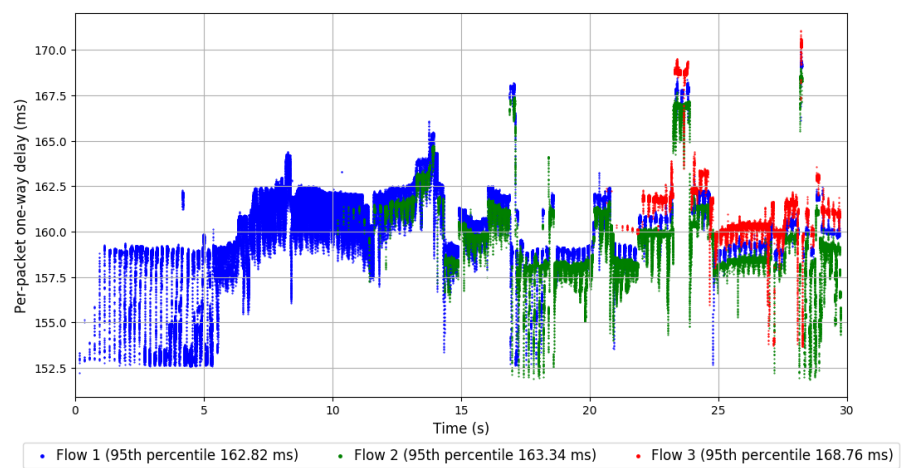
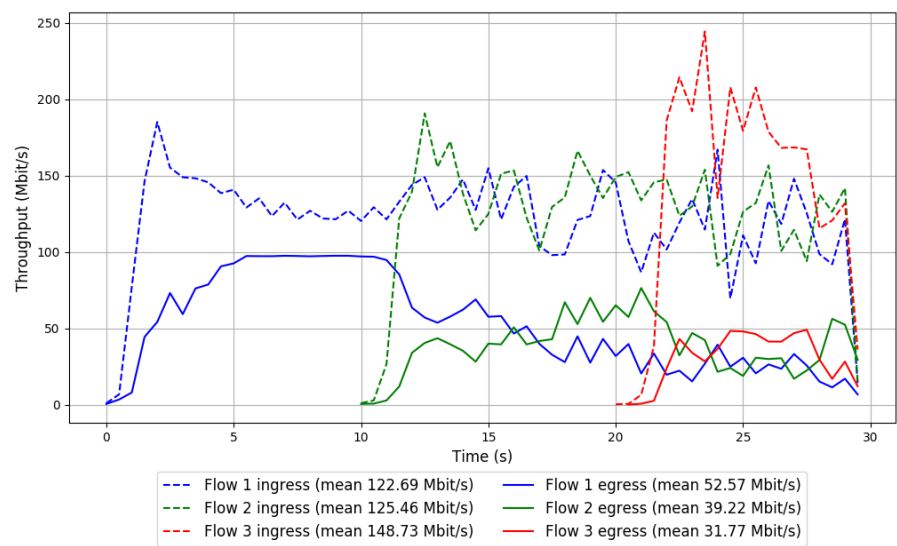
-- Flow 3:

Average throughput: 31.77 Mbit/s

95th percentile per-packet one-way delay: 168.760 ms

Loss rate: 78.64%

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



Run 4: Statistics of Indigo-1-32

Start at: 2018-04-24 22:15:49

End at: 2018-04-24 22:16:19

Local clock offset: 0.095 ms

Remote clock offset: 5.062 ms

Below is generated by plot.py at 2018-04-25 01:17:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.04 Mbit/s

95th percentile per-packet one-way delay: 165.381 ms

Loss rate: 62.09%

-- Flow 1:

Average throughput: 54.21 Mbit/s

95th percentile per-packet one-way delay: 164.154 ms

Loss rate: 49.05%

-- Flow 2:

Average throughput: 34.65 Mbit/s

95th percentile per-packet one-way delay: 165.498 ms

Loss rate: 72.53%

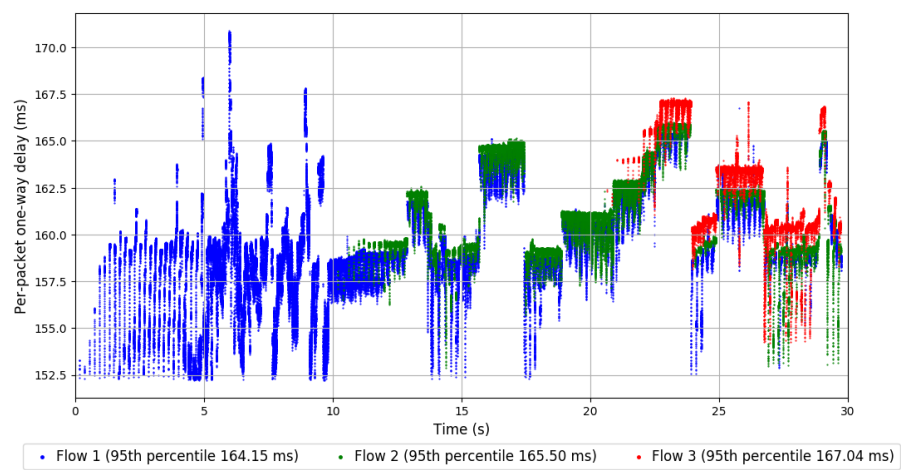
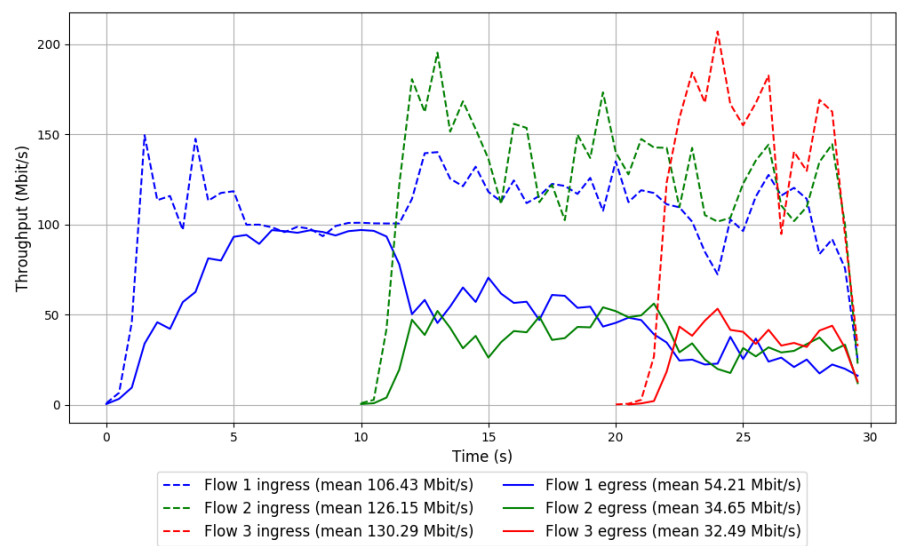
-- Flow 3:

Average throughput: 32.49 Mbit/s

95th percentile per-packet one-way delay: 167.040 ms

Loss rate: 75.07%

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



Run 5: Statistics of Indigo-1-32

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

End at: 2018-04-24 22:39:08

Local clock offset: 6.302 ms

Remote clock offset: 3.615 ms

Below is generated by plot.py at 2018-04-25 01:17:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.44 Mbit/s

95th percentile per-packet one-way delay: 167.206 ms

Loss rate: 63.88%

-- Flow 1:

Average throughput: 50.79 Mbit/s

95th percentile per-packet one-way delay: 165.804 ms

Loss rate: 58.63%

-- Flow 2:

Average throughput: 42.02 Mbit/s

95th percentile per-packet one-way delay: 167.779 ms

Loss rate: 67.16%

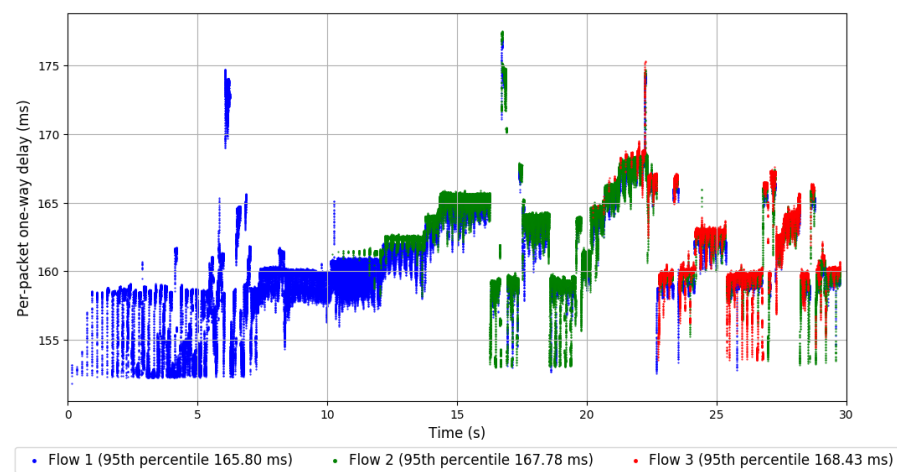
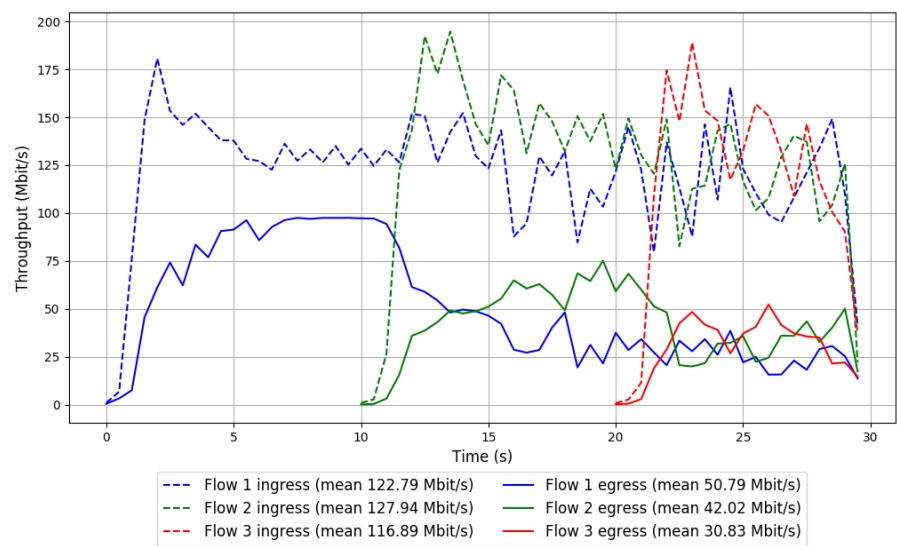
-- Flow 3:

Average throughput: 30.83 Mbit/s

95th percentile per-packet one-way delay: 168.428 ms

Loss rate: 73.63%

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

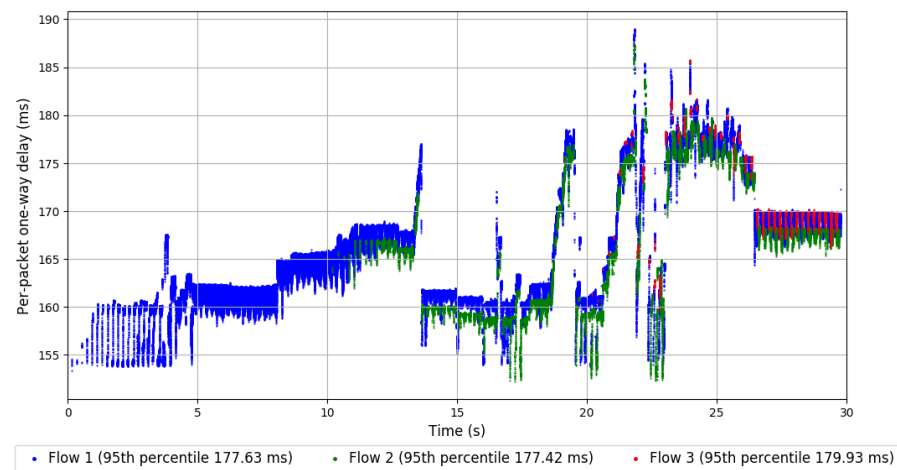
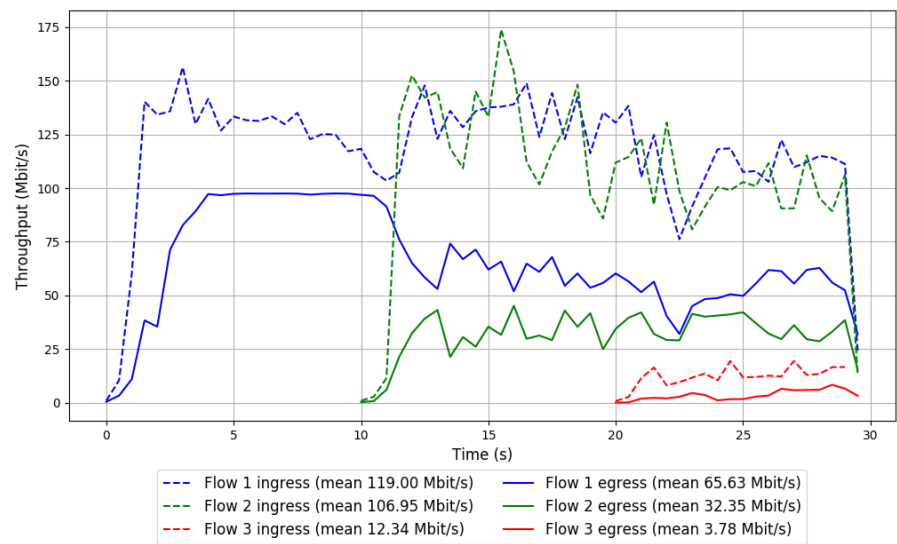


Run 6: Statistics of Indigo-1-32

Start at: 2018-04-24 23:01:49
End at: 2018-04-24 23:02:19
Local clock offset: -1.959 ms
Remote clock offset: -3.536 ms

Below is generated by plot.py at 2018-04-25 01:17:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 88.14 Mbit/s
95th percentile per-packet one-way delay: 177.654 ms
Loss rate: 54.40%
-- Flow 1:
Average throughput: 65.63 Mbit/s
95th percentile per-packet one-way delay: 177.635 ms
Loss rate: 44.82%
-- Flow 2:
Average throughput: 32.35 Mbit/s
95th percentile per-packet one-way delay: 177.424 ms
Loss rate: 69.74%
-- Flow 3:
Average throughput: 3.78 Mbit/s
95th percentile per-packet one-way delay: 179.928 ms
Loss rate: 69.37%

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

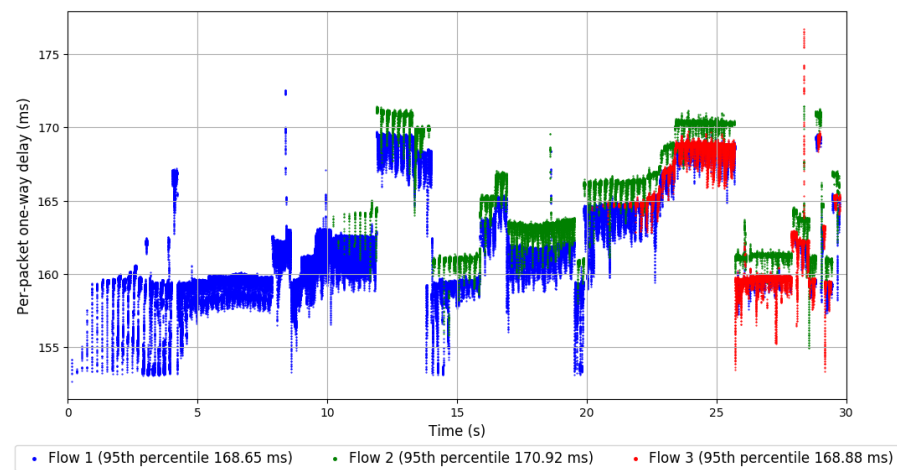
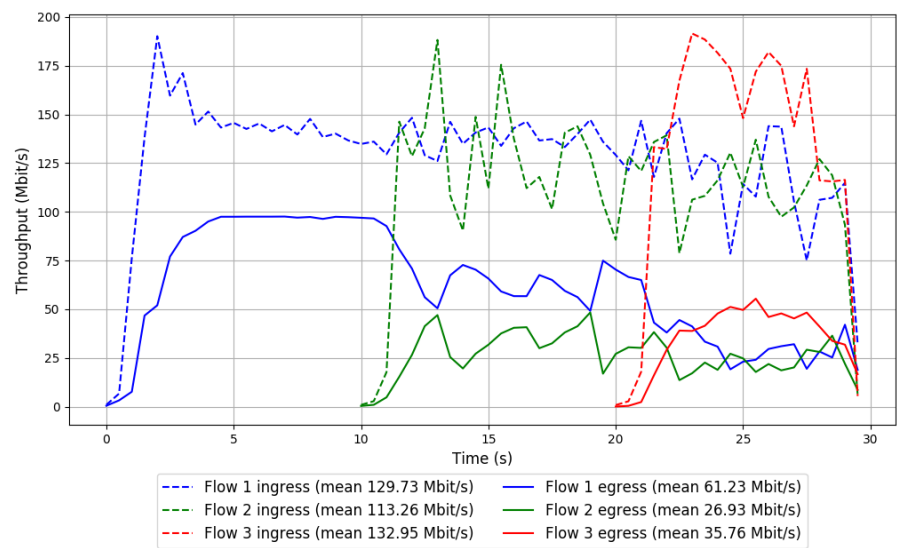


Run 7: Statistics of Indigo-1-32

Start at: 2018-04-24 23:24:38
End at: 2018-04-24 23:25:08
Local clock offset: -1.345 ms
Remote clock offset: -1.696 ms

Below is generated by plot.py at 2018-04-25 01:18:10
Datalink statistics
-- Total of 3 flows:
Average throughput: 90.51 Mbit/s
95th percentile per-packet one-way delay: 169.385 ms
Loss rate: 63.38%
-- Flow 1:
Average throughput: 61.23 Mbit/s
95th percentile per-packet one-way delay: 168.648 ms
Loss rate: 52.78%
-- Flow 2:
Average throughput: 26.93 Mbit/s
95th percentile per-packet one-way delay: 170.916 ms
Loss rate: 76.22%
-- Flow 3:
Average throughput: 35.76 Mbit/s
95th percentile per-packet one-way delay: 168.883 ms
Loss rate: 73.10%

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

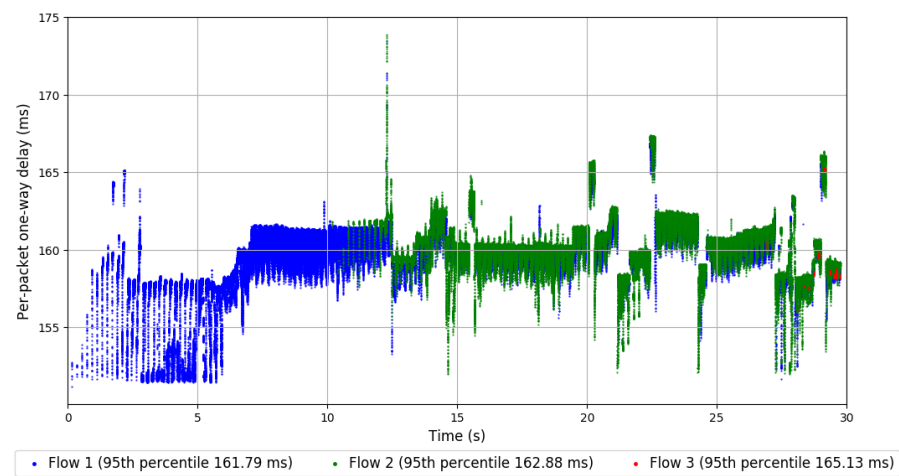
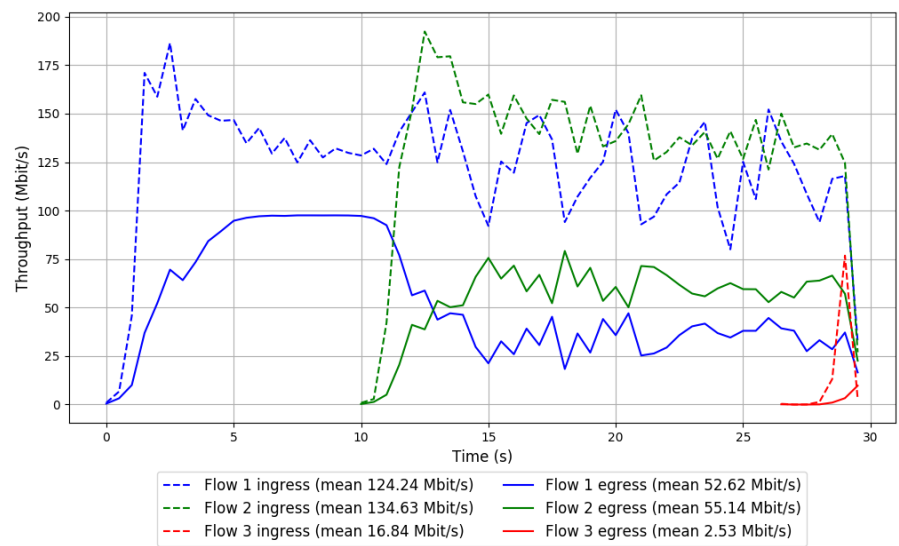


Run 8: Statistics of Indigo-1-32

Start at: 2018-04-24 23:48:02
End at: 2018-04-24 23:48:32
Local clock offset: 0.564 ms
Remote clock offset: -1.787 ms

Below is generated by plot.py at 2018-04-25 01:18:10
Datalink statistics
-- Total of 3 flows:
Average throughput: 89.26 Mbit/s
95th percentile per-packet one-way delay: 162.260 ms
Loss rate: 58.43%
-- Flow 1:
Average throughput: 52.62 Mbit/s
95th percentile per-packet one-way delay: 161.795 ms
Loss rate: 57.64%
-- Flow 2:
Average throughput: 55.14 Mbit/s
95th percentile per-packet one-way delay: 162.879 ms
Loss rate: 59.05%
-- Flow 3:
Average throughput: 2.53 Mbit/s
95th percentile per-packet one-way delay: 165.134 ms
Loss rate: 84.96%

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

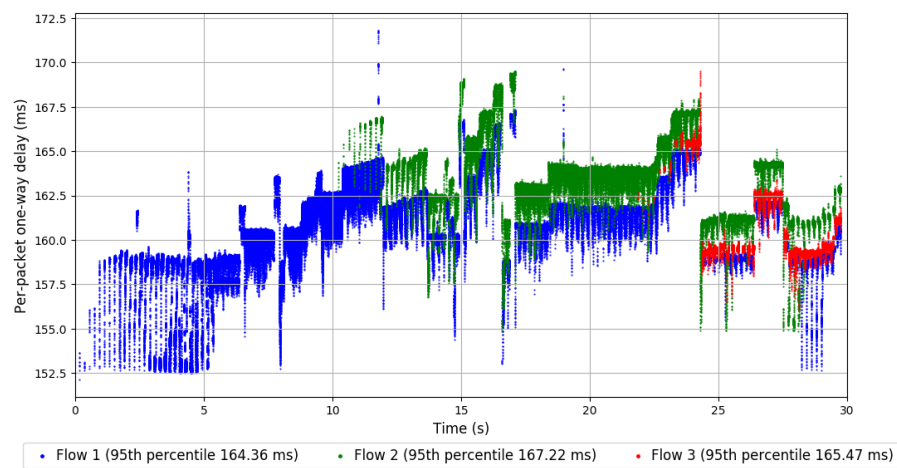
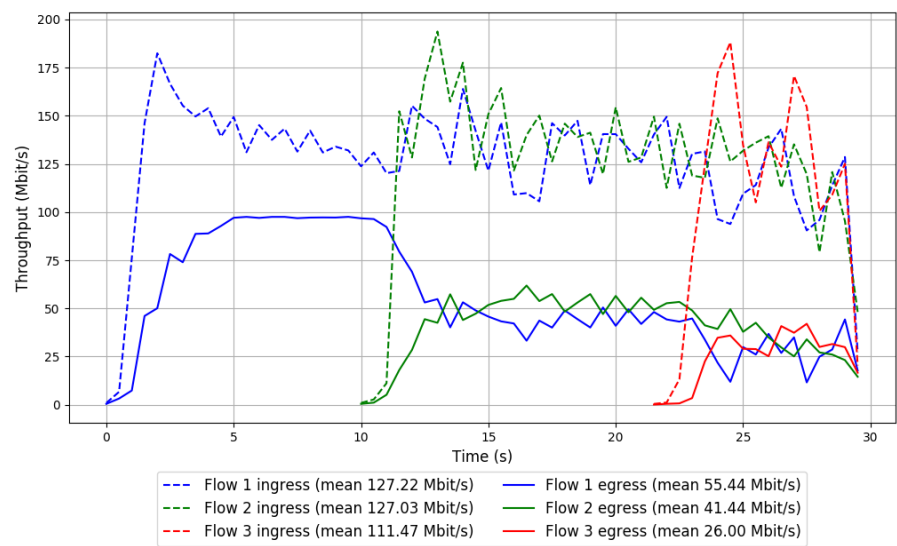


Run 9: Statistics of Indigo-1-32

Start at: 2018-04-25 00:10:47
End at: 2018-04-25 00:11:17
Local clock offset: -4.475 ms
Remote clock offset: -1.746 ms

Below is generated by plot.py at 2018-04-25 01:18:33
Datalink statistics
-- Total of 3 flows:
Average throughput: 89.68 Mbit/s
95th percentile per-packet one-way delay: 165.965 ms
Loss rate: 62.73%
-- Flow 1:
Average throughput: 55.44 Mbit/s
95th percentile per-packet one-way delay: 164.359 ms
Loss rate: 56.41%
-- Flow 2:
Average throughput: 41.44 Mbit/s
95th percentile per-packet one-way delay: 167.224 ms
Loss rate: 67.38%
-- Flow 3:
Average throughput: 26.00 Mbit/s
95th percentile per-packet one-way delay: 165.470 ms
Loss rate: 76.68%

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

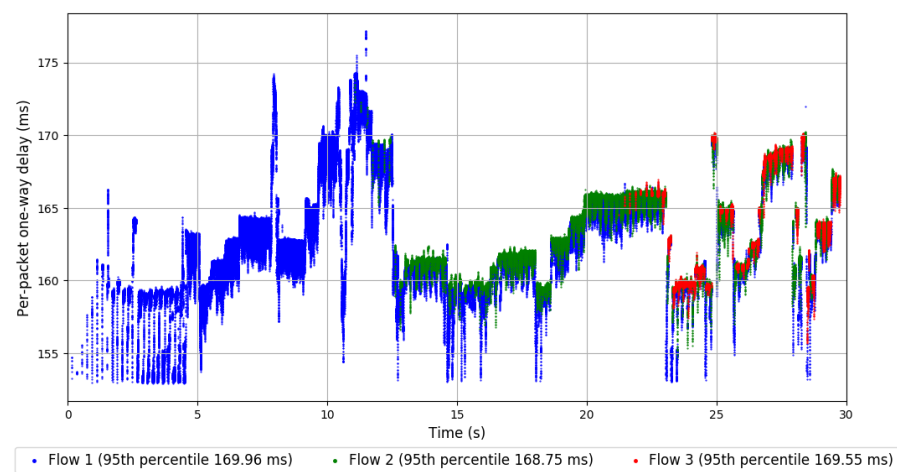
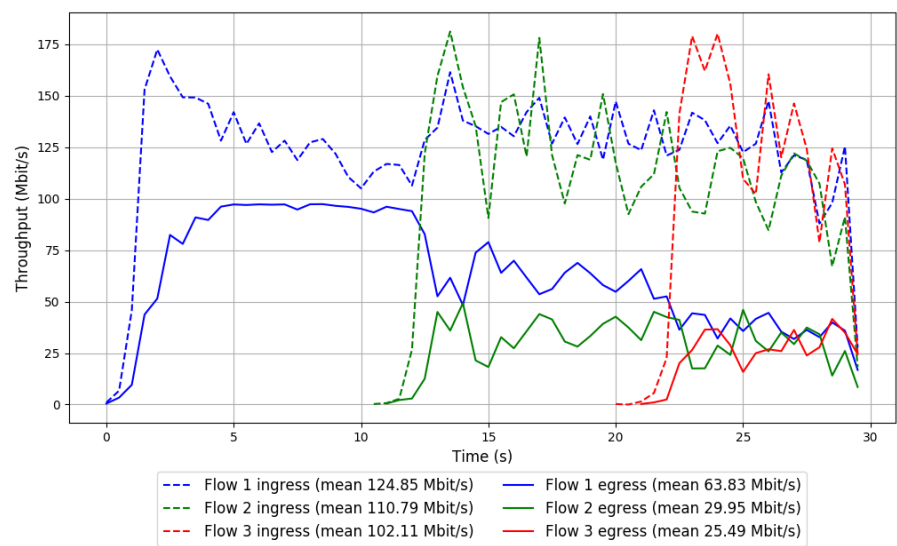


Run 10: Statistics of Indigo-1-32

Start at: 2018-04-25 00:33:31
End at: 2018-04-25 00:34:01
Local clock offset: 0.584 ms
Remote clock offset: -17.055 ms

Below is generated by plot.py at 2018-04-25 01:18:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 89.97 Mbit/s
95th percentile per-packet one-way delay: 169.456 ms
Loss rate: 60.41%
-- Flow 1:
Average throughput: 63.83 Mbit/s
95th percentile per-packet one-way delay: 169.957 ms
Loss rate: 48.85%
-- Flow 2:
Average throughput: 29.95 Mbit/s
95th percentile per-packet one-way delay: 168.750 ms
Loss rate: 72.98%
-- Flow 3:
Average throughput: 25.49 Mbit/s
95th percentile per-packet one-way delay: 169.550 ms
Loss rate: 77.66%

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

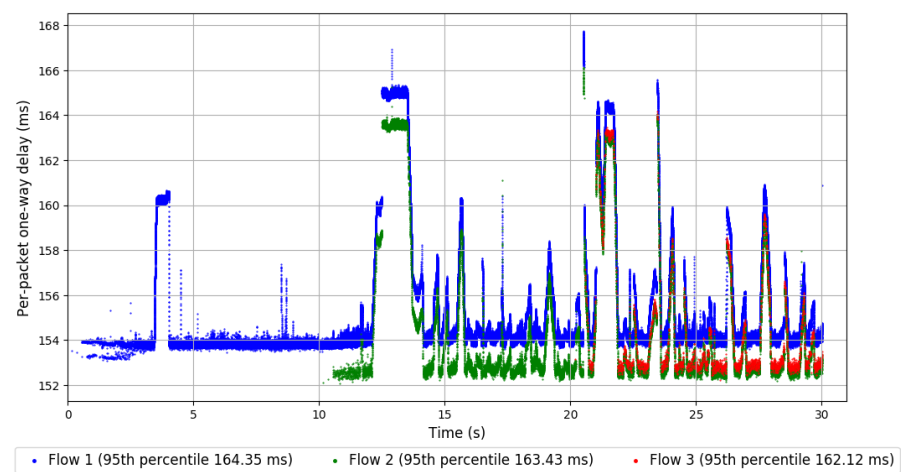
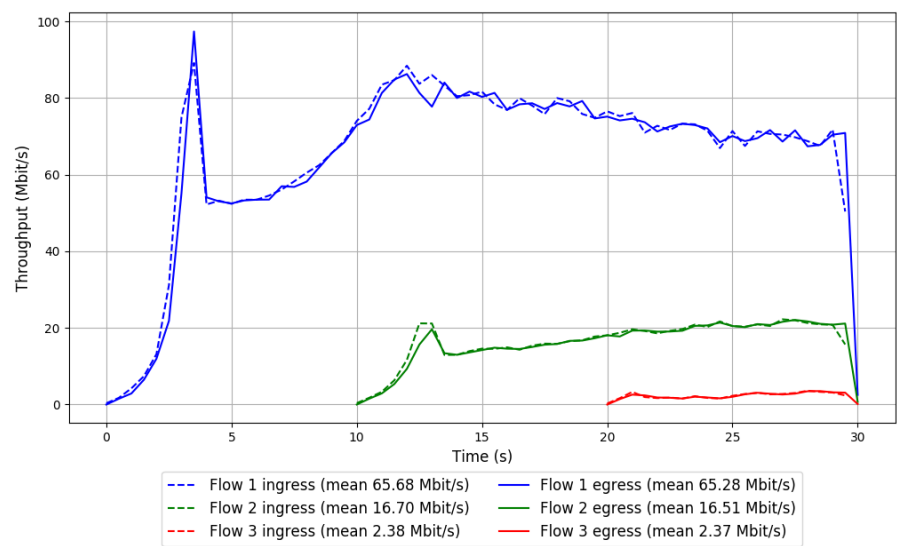


Run 1: Statistics of PCC-Vivace

Start at: 2018-04-24 21:08:05
End at: 2018-04-24 21:08:35
Local clock offset: 2.955 ms
Remote clock offset: -0.492 ms

Below is generated by plot.py at 2018-04-25 01:18:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 77.03 Mbit/s
95th percentile per-packet one-way delay: 163.836 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 65.28 Mbit/s
95th percentile per-packet one-way delay: 164.347 ms
Loss rate: 0.60%
-- Flow 2:
Average throughput: 16.51 Mbit/s
95th percentile per-packet one-way delay: 163.428 ms
Loss rate: 1.17%
-- Flow 3:
Average throughput: 2.37 Mbit/s
95th percentile per-packet one-way delay: 162.123 ms
Loss rate: 0.34%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2018-04-24 21:31:18

End at: 2018-04-24 21:31:48

Local clock offset: 2.502 ms

Remote clock offset: 0.767 ms

Below is generated by plot.py at 2018-04-25 01:18:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 76.21 Mbit/s

95th percentile per-packet one-way delay: 160.294 ms

Loss rate: 0.24%

-- Flow 1:

Average throughput: 66.81 Mbit/s

95th percentile per-packet one-way delay: 160.255 ms

Loss rate: 0.24%

-- Flow 2:

Average throughput: 12.40 Mbit/s

95th percentile per-packet one-way delay: 161.470 ms

Loss rate: 0.16%

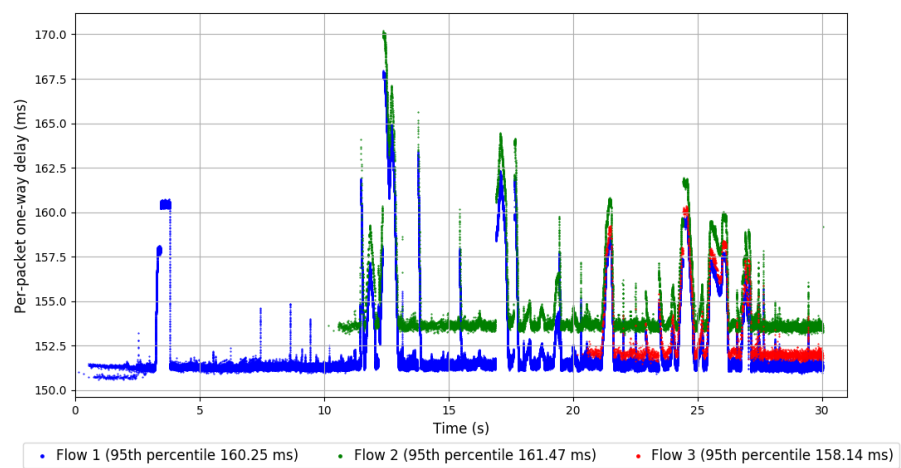
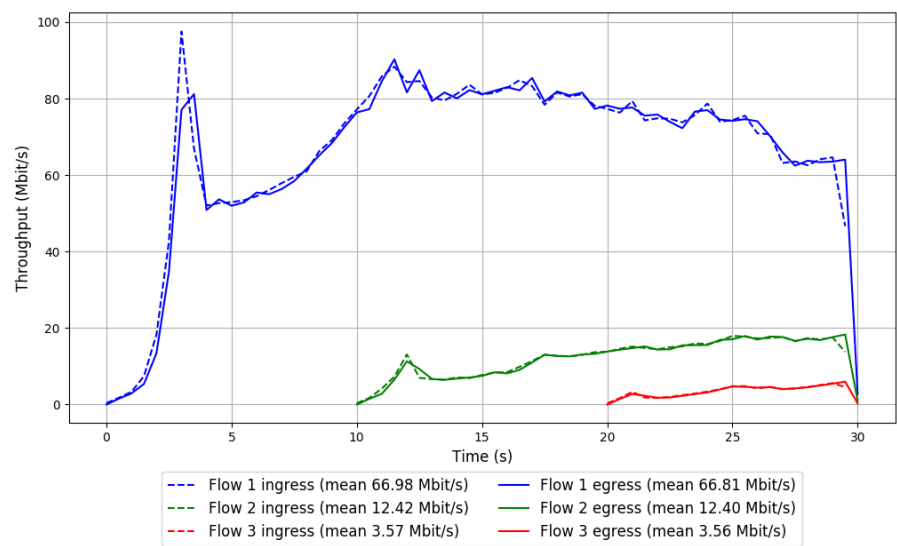
-- Flow 3:

Average throughput: 3.56 Mbit/s

95th percentile per-packet one-way delay: 158.136 ms

Loss rate: 0.21%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2018-04-24 21:54:16

End at: 2018-04-24 21:54:46

Local clock offset: -4.457 ms

Remote clock offset: 3.972 ms

Below is generated by plot.py at 2018-04-25 01:18:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 77.68 Mbit/s

95th percentile per-packet one-way delay: 160.883 ms

Loss rate: 0.21%

-- Flow 1:

Average throughput: 70.19 Mbit/s

95th percentile per-packet one-way delay: 160.945 ms

Loss rate: 0.22%

-- Flow 2:

Average throughput: 9.24 Mbit/s

95th percentile per-packet one-way delay: 161.103 ms

Loss rate: 0.16%

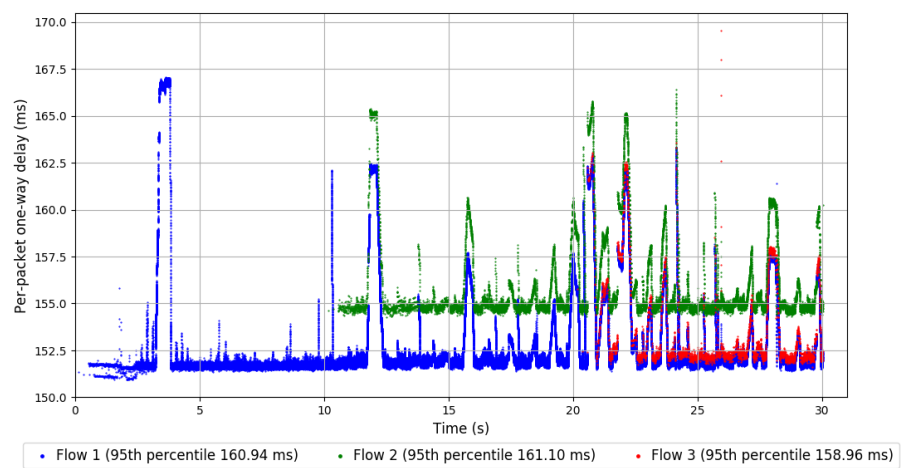
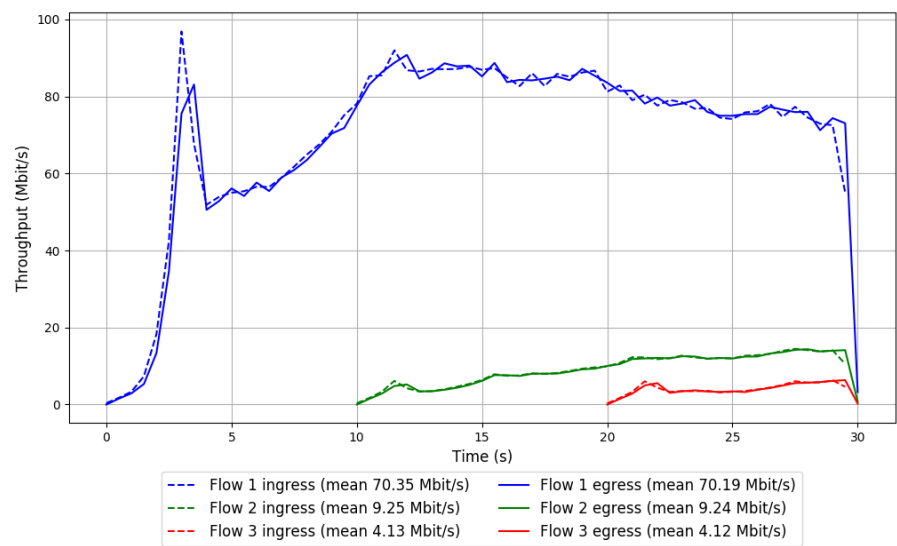
-- Flow 3:

Average throughput: 4.12 Mbit/s

95th percentile per-packet one-way delay: 158.964 ms

Loss rate: 0.27%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2018-04-24 22:17:14

End at: 2018-04-24 22:17:44

Local clock offset: 1.039 ms

Remote clock offset: 5.059 ms

Below is generated by plot.py at 2018-04-25 01:18:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 74.89 Mbit/s

95th percentile per-packet one-way delay: 160.762 ms

Loss rate: 1.19%

-- Flow 1:

Average throughput: 53.65 Mbit/s

95th percentile per-packet one-way delay: 160.646 ms

Loss rate: 1.03%

-- Flow 2:

Average throughput: 25.57 Mbit/s

95th percentile per-packet one-way delay: 159.639 ms

Loss rate: 1.42%

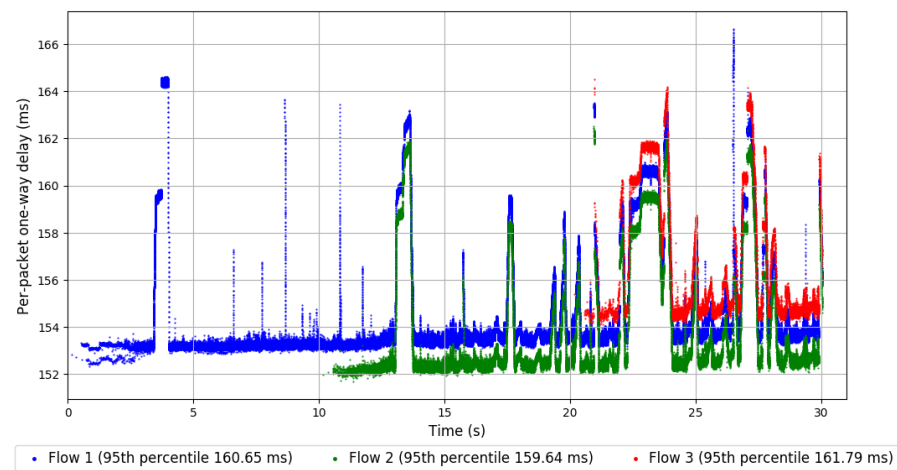
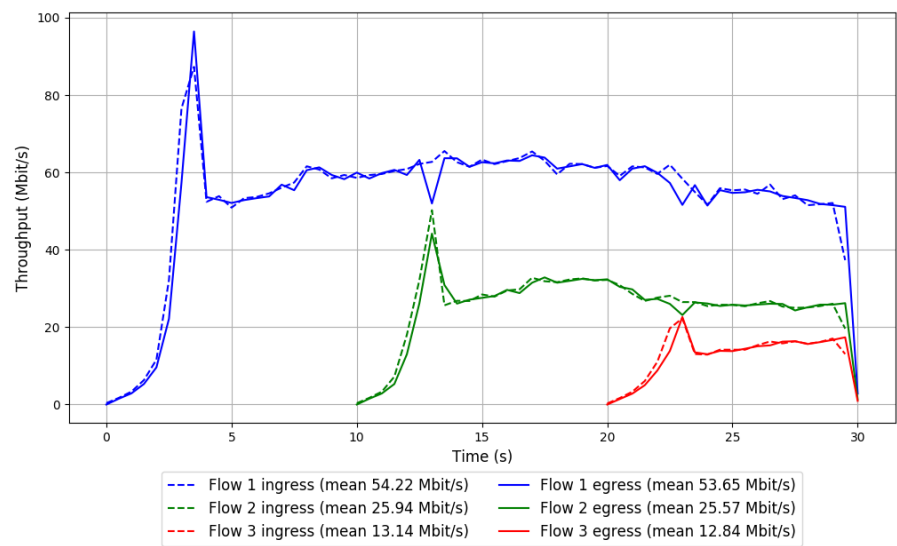
-- Flow 3:

Average throughput: 12.84 Mbit/s

95th percentile per-packet one-way delay: 161.793 ms

Loss rate: 2.23%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2018-04-24 22:40:03

End at: 2018-04-24 22:40:33

Local clock offset: 6.526 ms

Remote clock offset: 2.761 ms

Below is generated by plot.py at 2018-04-25 01:19:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 61.02 Mbit/s

95th percentile per-packet one-way delay: 161.539 ms

Loss rate: 0.30%

-- Flow 1:

Average throughput: 54.10 Mbit/s

95th percentile per-packet one-way delay: 161.729 ms

Loss rate: 0.32%

-- Flow 2:

Average throughput: 8.98 Mbit/s

95th percentile per-packet one-way delay: 159.906 ms

Loss rate: 0.14%

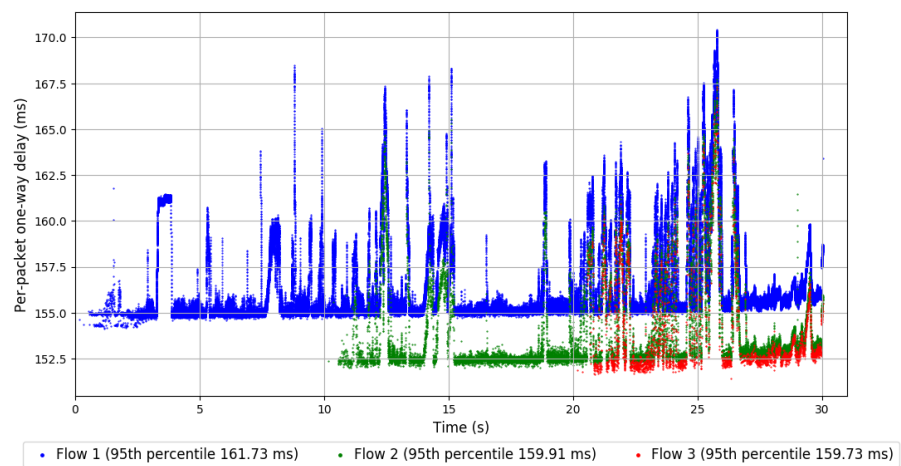
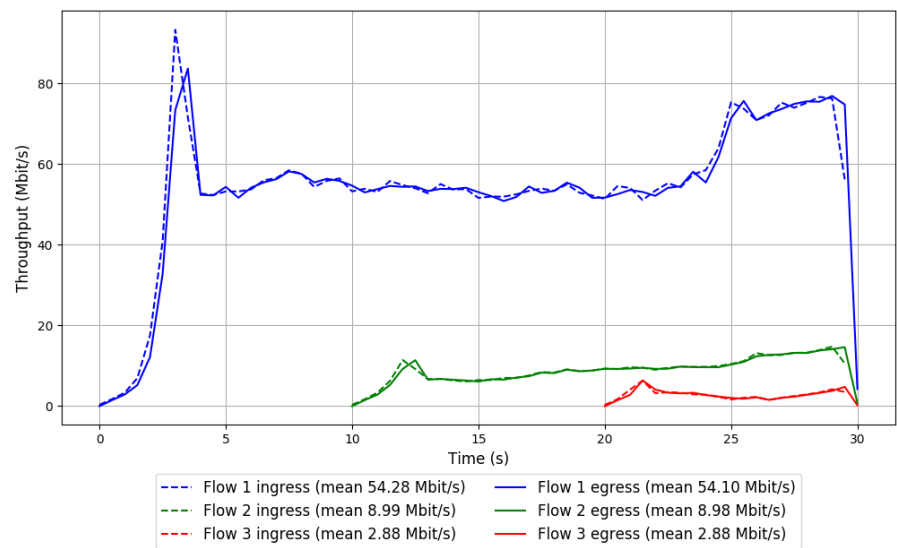
-- Flow 3:

Average throughput: 2.88 Mbit/s

95th percentile per-packet one-way delay: 159.732 ms

Loss rate: 0.17%

Run 5: Report of PCC-Vivace — Data Link



Run 6: Statistics of PCC-Vivace

Start at: 2018-04-24 23:03:14

End at: 2018-04-24 23:03:44

Local clock offset: -2.262 ms

Remote clock offset: -3.75 ms

Below is generated by plot.py at 2018-04-25 01:19:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 76.09 Mbit/s

95th percentile per-packet one-way delay: 160.271 ms

Loss rate: 0.35%

-- Flow 1:

Average throughput: 68.85 Mbit/s

95th percentile per-packet one-way delay: 160.313 ms

Loss rate: 0.33%

-- Flow 2:

Average throughput: 9.42 Mbit/s

95th percentile per-packet one-way delay: 159.795 ms

Loss rate: 0.48%

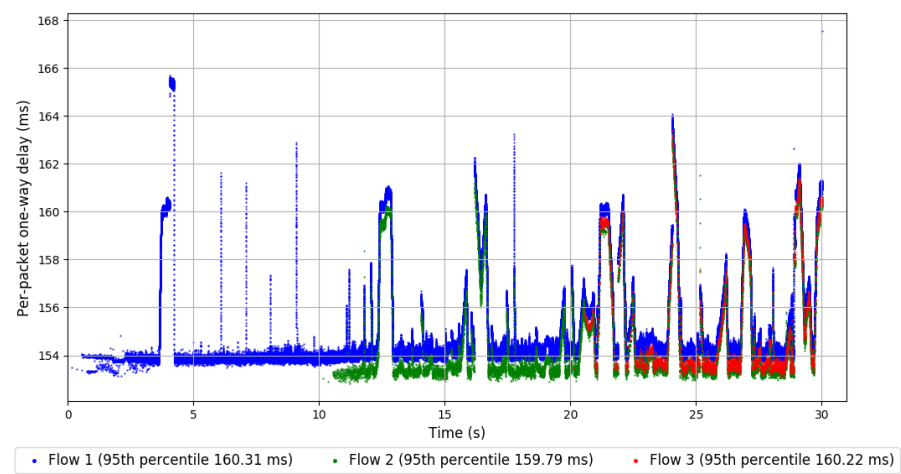
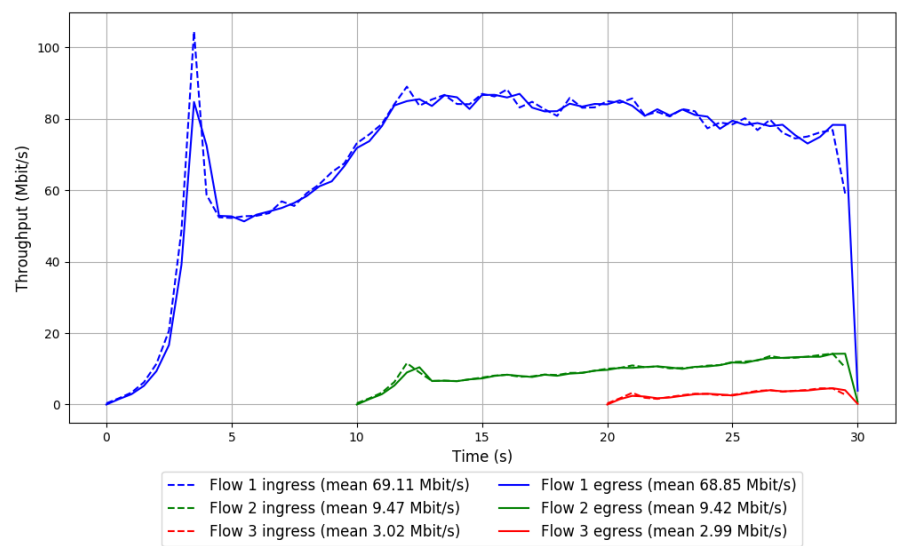
-- Flow 3:

Average throughput: 2.99 Mbit/s

95th percentile per-packet one-way delay: 160.220 ms

Loss rate: 0.83%

Run 6: Report of PCC-Vivace — Data Link

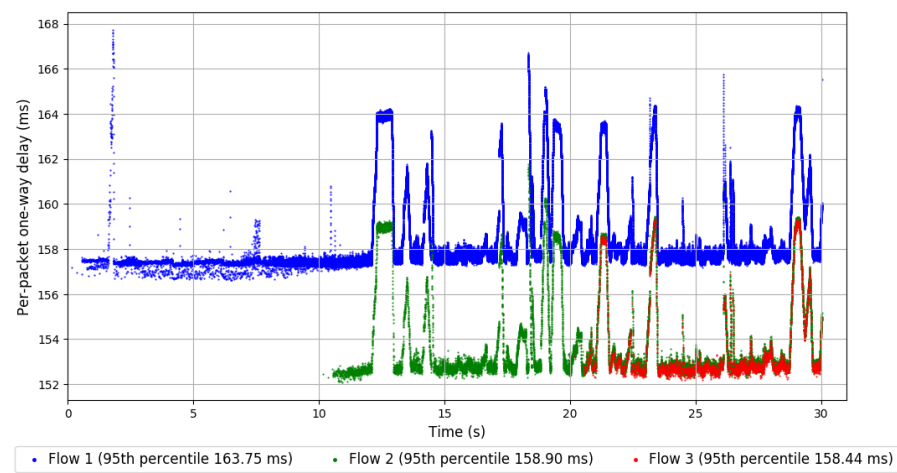
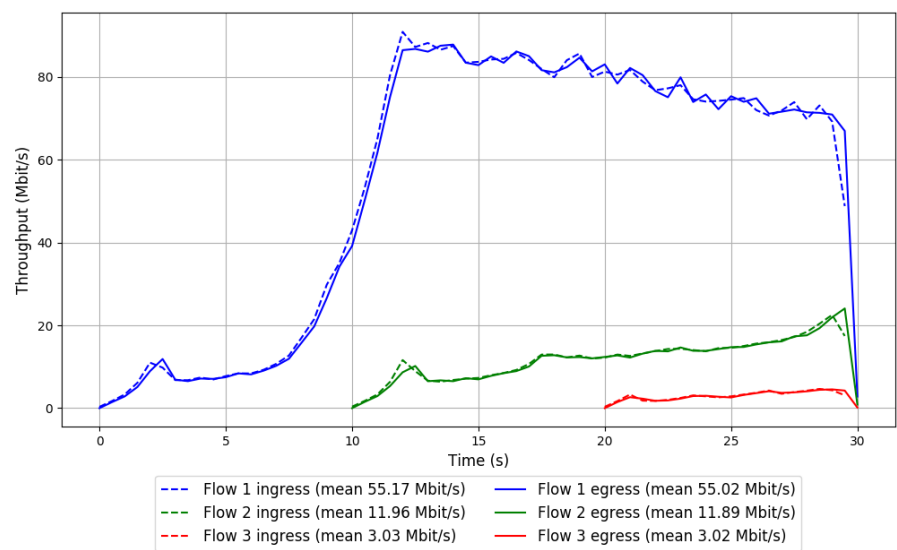


Run 7: Statistics of PCC-Vivace

Start at: 2018-04-24 23:26:03
End at: 2018-04-24 23:26:34
Local clock offset: -1.126 ms
Remote clock offset: -1.618 ms

Below is generated by plot.py at 2018-04-25 01:19:15
Datalink statistics
-- Total of 3 flows:
Average throughput: 63.92 Mbit/s
95th percentile per-packet one-way delay: 163.534 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 55.02 Mbit/s
95th percentile per-packet one-way delay: 163.755 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 11.89 Mbit/s
95th percentile per-packet one-way delay: 158.895 ms
Loss rate: 0.51%
-- Flow 3:
Average throughput: 3.02 Mbit/s
95th percentile per-packet one-way delay: 158.442 ms
Loss rate: 0.36%

Run 7: Report of PCC-Vivace — Data Link

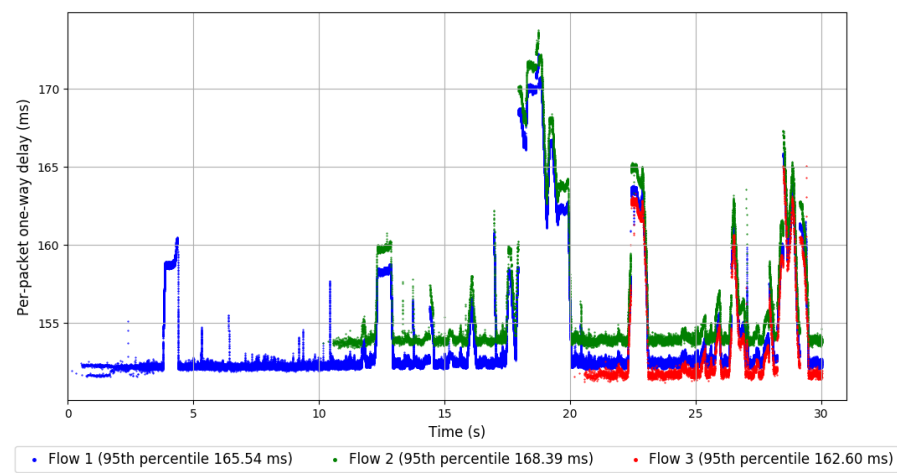
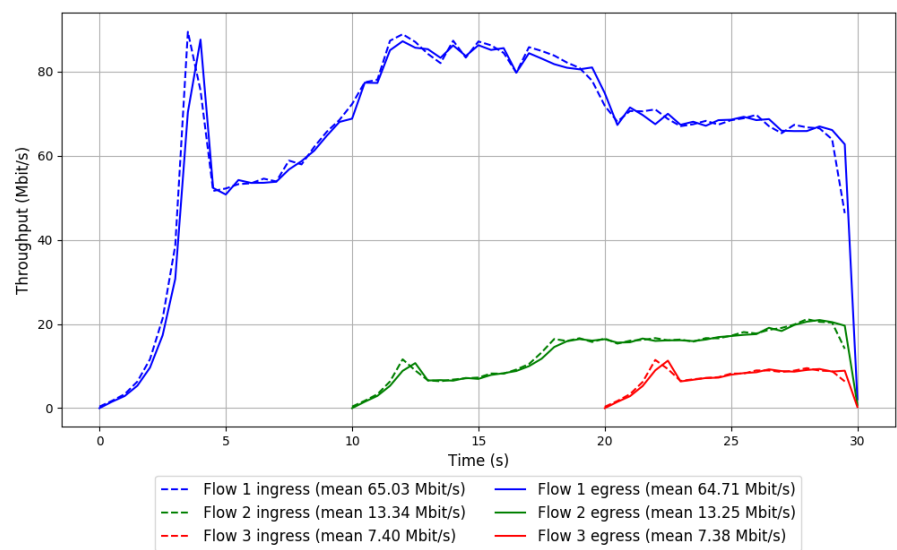


Run 8: Statistics of PCC-Vivace

Start at: 2018-04-24 23:49:28
End at: 2018-04-24 23:49:58
Local clock offset: 0.692 ms
Remote clock offset: -1.773 ms

Below is generated by plot.py at 2018-04-25 01:19:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 75.95 Mbit/s
95th percentile per-packet one-way delay: 165.902 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 64.71 Mbit/s
95th percentile per-packet one-way delay: 165.544 ms
Loss rate: 0.49%
-- Flow 2:
Average throughput: 13.25 Mbit/s
95th percentile per-packet one-way delay: 168.389 ms
Loss rate: 0.67%
-- Flow 3:
Average throughput: 7.38 Mbit/s
95th percentile per-packet one-way delay: 162.605 ms
Loss rate: 0.34%

Run 8: Report of PCC-Vivace — Data Link

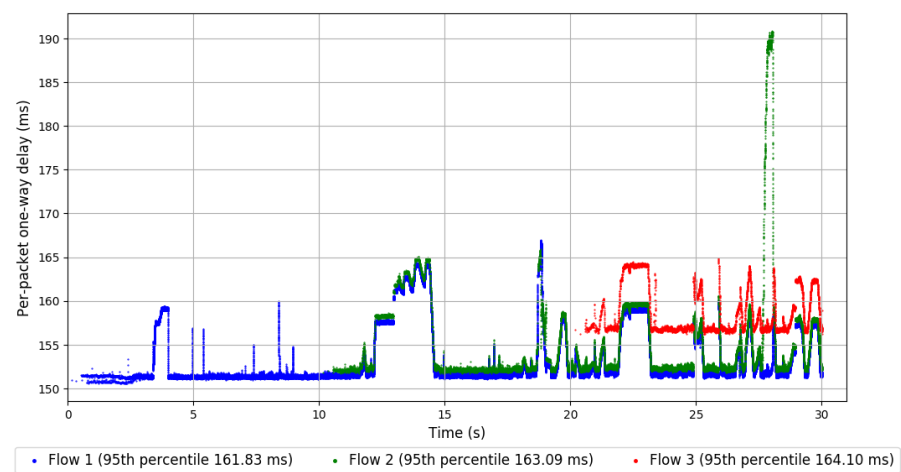
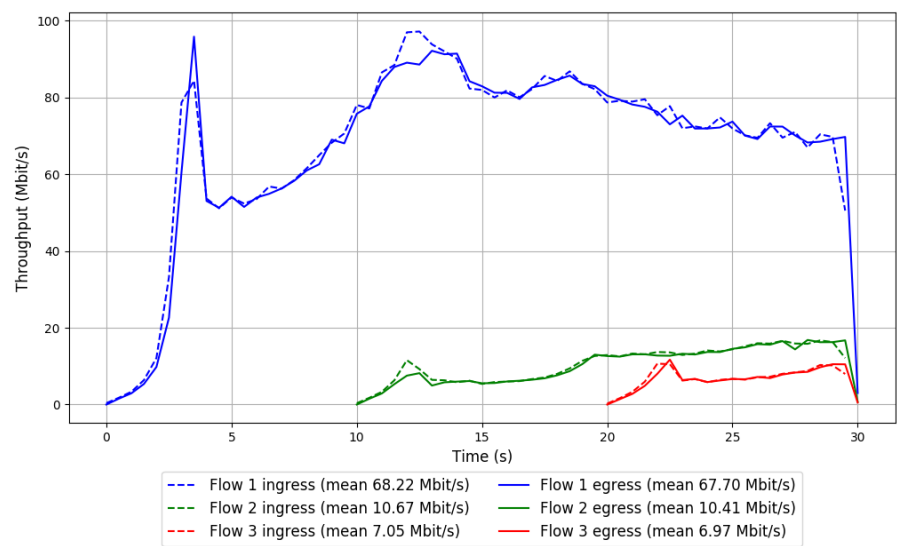


Run 9: Statistics of PCC-Vivace

Start at: 2018-04-25 00:12:13
End at: 2018-04-25 00:12:43
Local clock offset: -4.541 ms
Remote clock offset: -1.765 ms

Below is generated by plot.py at 2018-04-25 01:19:23
Datalink statistics
-- Total of 3 flows:
Average throughput: 76.90 Mbit/s
95th percentile per-packet one-way delay: 162.219 ms
Loss rate: 0.92%
-- Flow 1:
Average throughput: 67.70 Mbit/s
95th percentile per-packet one-way delay: 161.827 ms
Loss rate: 0.77%
-- Flow 2:
Average throughput: 10.41 Mbit/s
95th percentile per-packet one-way delay: 163.094 ms
Loss rate: 2.39%
-- Flow 3:
Average throughput: 6.97 Mbit/s
95th percentile per-packet one-way delay: 164.098 ms
Loss rate: 1.09%

Run 9: Report of PCC-Vivace — Data Link

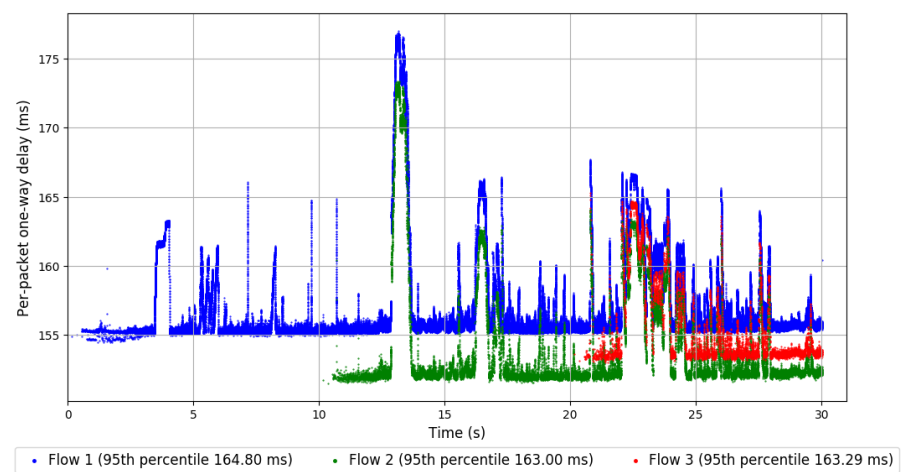
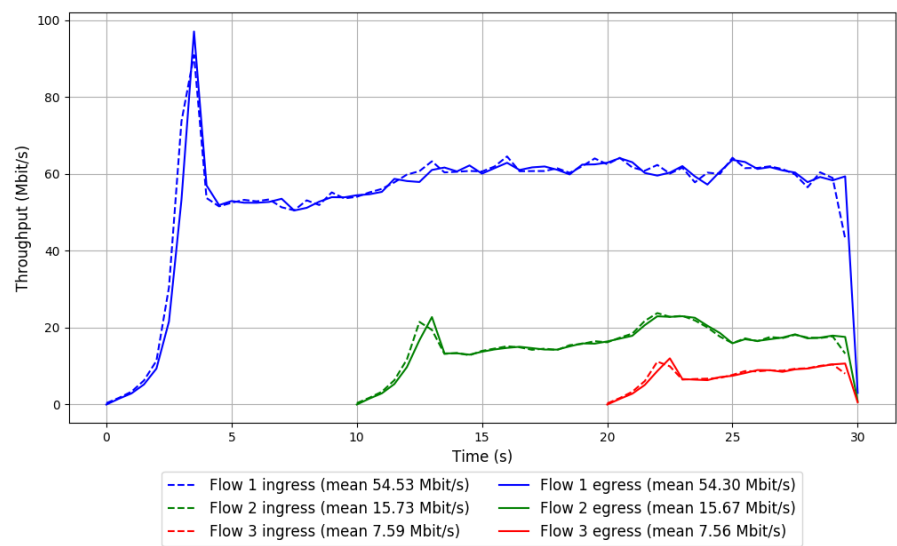


Run 10: Statistics of PCC-Vivace

Start at: 2018-04-25 00:34:56
End at: 2018-04-25 00:35:26
Local clock offset: 0.937 ms
Remote clock offset: -17.062 ms

Below is generated by plot.py at 2018-04-25 01:19:23
Datalink statistics
-- Total of 3 flows:
Average throughput: 67.21 Mbit/s
95th percentile per-packet one-way delay: 164.491 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 54.30 Mbit/s
95th percentile per-packet one-way delay: 164.799 ms
Loss rate: 0.41%
-- Flow 2:
Average throughput: 15.67 Mbit/s
95th percentile per-packet one-way delay: 162.996 ms
Loss rate: 0.36%
-- Flow 3:
Average throughput: 7.56 Mbit/s
95th percentile per-packet one-way delay: 163.286 ms
Loss rate: 0.31%

Run 10: Report of PCC-Vivace — Data Link



Run 1: Statistics of PCC-Expr

Start at: 2018-04-24 20:47:55

End at: 2018-04-24 20:48:25

Local clock offset: 3.94 ms

Remote clock offset: -0.567 ms

Run 1: Report of PCC-Expr — Data Link

Figure is missing

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Run 2: Statistics of PCC-Expr

Start at: 2018-04-24 21:11:05

End at: 2018-04-24 21:11:35

Local clock offset: 2.796 ms

Remote clock offset: -0.503 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 21:34:08

End at: 2018-04-24 21:34:38

Local clock offset: 2.1 ms

Remote clock offset: 1.611 ms

Run 3: Report of PCC-Expr — Data Link

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Run 4: Statistics of PCC-Expr

Start at: 2018-04-24 21:57:16

End at: 2018-04-24 21:57:46

Local clock offset: -5.079 ms

Remote clock offset: 4.218 ms

Run 4: Report of PCC-Expr — Data Link

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Run 5: Statistics of PCC-Expr

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

End at: 2018-04-24 22:20:34

Local clock offset: 2.139 ms

Remote clock offset: 5.175 ms

Run 5: Report of PCC-Expr — Data Link

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Figure is missing

Run 6: Statistics of PCC-Expr

Start at: 2018-04-24 22:43:01

End at: 2018-04-24 22:43:31

Local clock offset: 6.089 ms

Remote clock offset: 1.152 ms

Run 6: Report of PCC-Expr — Data Link

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Run 7: Statistics of PCC-Expr

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

End at: 2018-04-24 23:06:34

Local clock offset: -2.442 ms

Remote clock offset: -4.125 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 23:28:53

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

Local clock offset: -0.74 ms

Remote clock offset: -1.525 ms

Run 8: Report of PCC-Expr — Data Link

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Figure is missing

Run 9: Statistics of PCC-Expr

Start at: 2018-04-24 23:52:18

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

Local clock offset: -0.042 ms

Remote clock offset: -1.715 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 00:15:03

End at: 2018-04-25 00:15:33

Local clock offset: -4.661 ms

Remote clock offset: -1.745 ms

Run 10: Report of PCC-Expr — Data Link

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Figure is missing