

Pantheon Report

Generated at 2018-04-17 21:23:08 (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*).

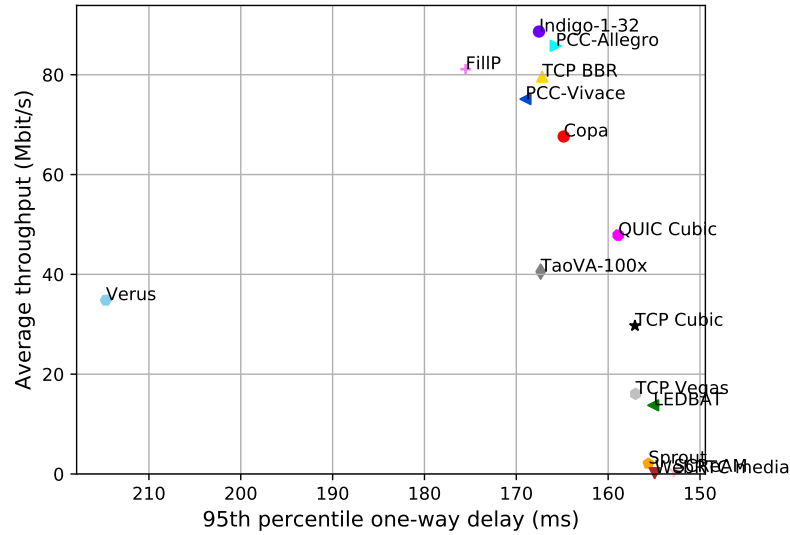
NTP offsets were measured against `ntp.nict.jp` and have been applied to correct the timestamps in logs.

Git summary:

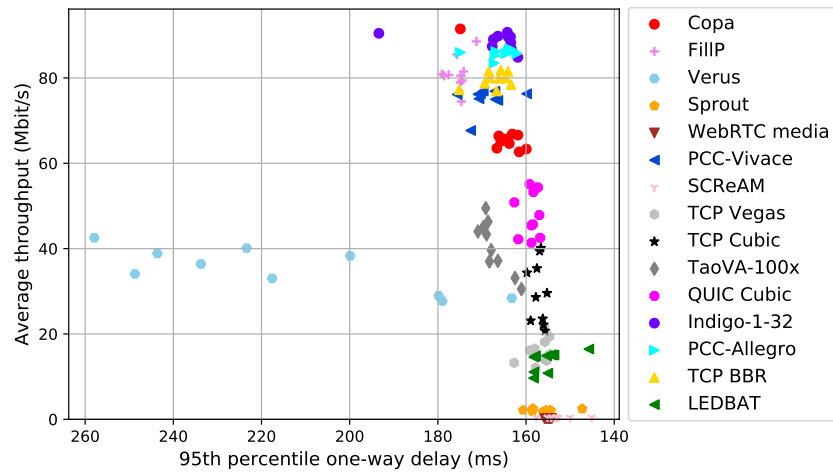
```
branch: master @ b3d6e7098641364fd3a292656a51aa81e316d0b4
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
M datagrump/sender.cc
third_party/fillp @ 11f8c46a2bf1dc797253db7e8ca04076272b2a44
third_party/genericCC @ d223989828276fa83a807da6e0341dc0c7b89aec
third_party/indigo @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

third_party/webrtc @ f271183af822eee5d0031620f4bebf38aedc5581

test from AWS 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



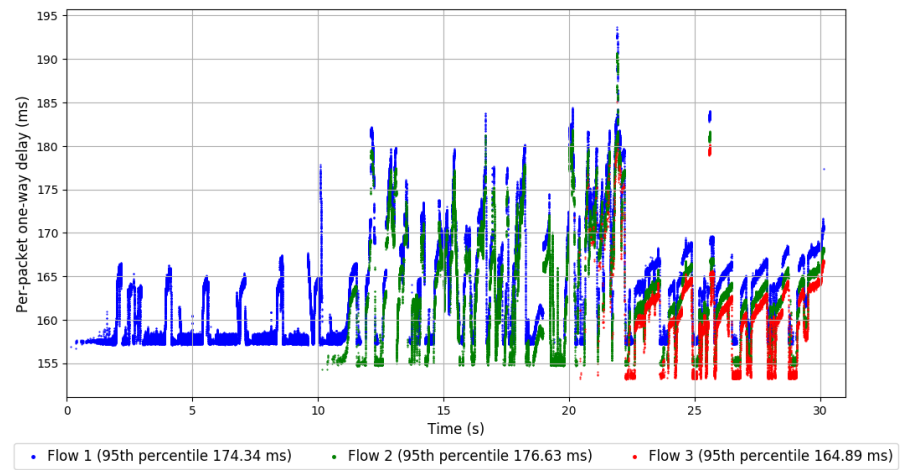
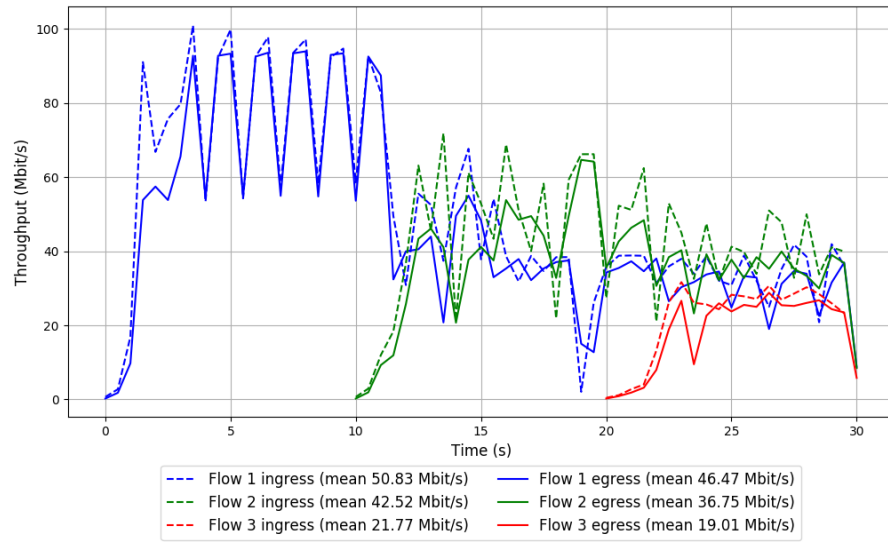
[illegible]

Run 1: Statistics of TCP BBR

Start at: 2018-04-17 17:08:57
End at: 2018-04-17 17:09:27
Local clock offset: 5.671 ms
Remote clock offset: -12.135 ms

Below is generated by plot.py at 2018-04-17 21:05:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 77.24 Mbit/s
95th percentile per-packet one-way delay: 175.148 ms
Loss rate: 10.52%
-- Flow 1:
Average throughput: 46.47 Mbit/s
95th percentile per-packet one-way delay: 174.344 ms
Loss rate: 8.54%
-- Flow 2:
Average throughput: 36.75 Mbit/s
95th percentile per-packet one-way delay: 176.633 ms
Loss rate: 13.53%
-- Flow 3:
Average throughput: 19.01 Mbit/s
95th percentile per-packet one-way delay: 164.894 ms
Loss rate: 12.69%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

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

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

Local clock offset: 6.996 ms

Remote clock offset: 2.634 ms

Below is generated by plot.py at 2018-04-17 21:05:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 81.53 Mbit/s

95th percentile per-packet one-way delay: 168.467 ms

Loss rate: 7.36%

-- Flow 1:

Average throughput: 52.82 Mbit/s

95th percentile per-packet one-way delay: 168.284 ms

Loss rate: 7.19%

-- Flow 2:

Average throughput: 33.79 Mbit/s

95th percentile per-packet one-way delay: 169.864 ms

Loss rate: 7.70%

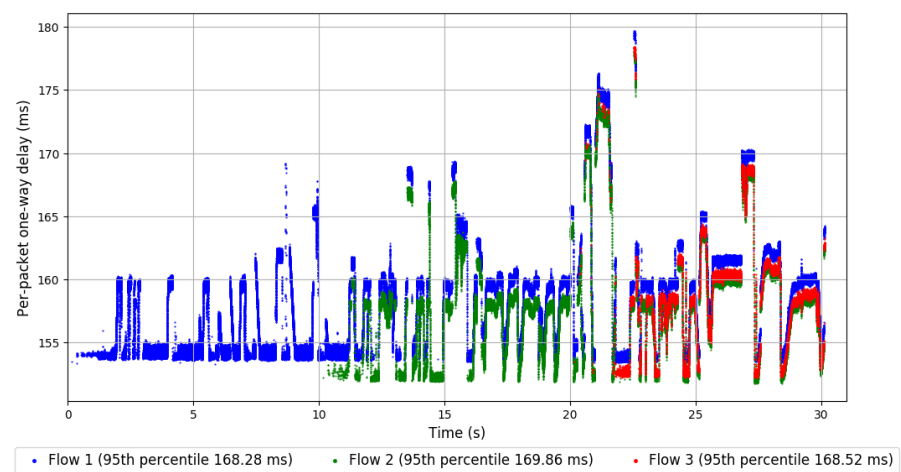
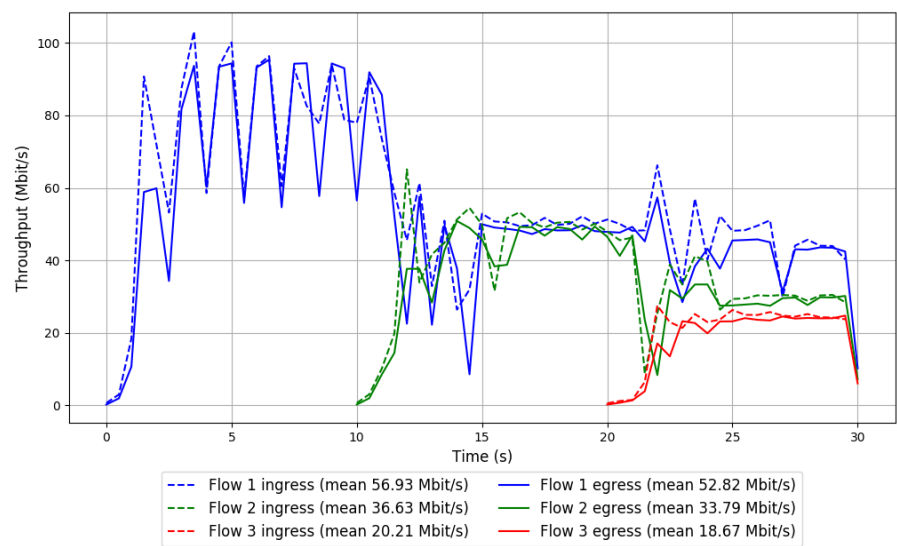
-- Flow 3:

Average throughput: 18.67 Mbit/s

95th percentile per-packet one-way delay: 168.518 ms

Loss rate: 7.60%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

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

End at: 2018-04-17 17:55:24

Local clock offset: 8.21 ms

Remote clock offset: 3.777 ms

Below is generated by plot.py at 2018-04-17 21:05:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 78.73 Mbit/s

95th percentile per-packet one-way delay: 169.376 ms

Loss rate: 7.23%

-- Flow 1:

Average throughput: 52.45 Mbit/s

95th percentile per-packet one-way delay: 168.476 ms

Loss rate: 7.29%

-- Flow 2:

Average throughput: 29.45 Mbit/s

95th percentile per-packet one-way delay: 170.252 ms

Loss rate: 6.18%

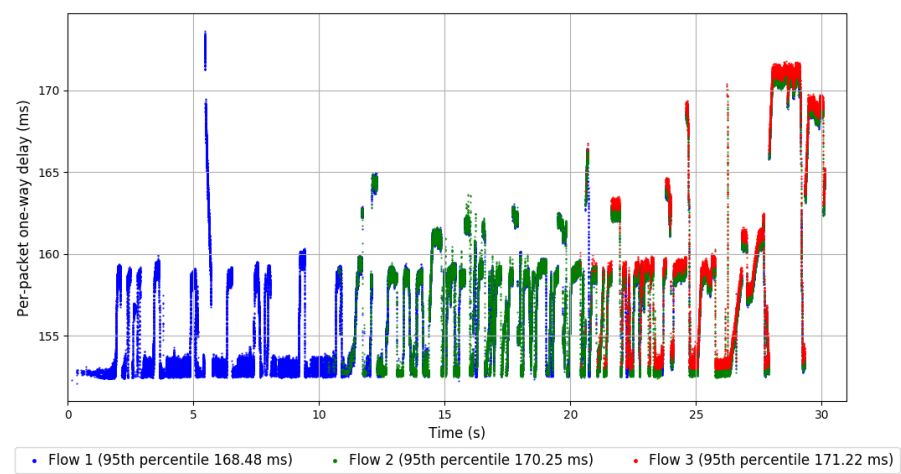
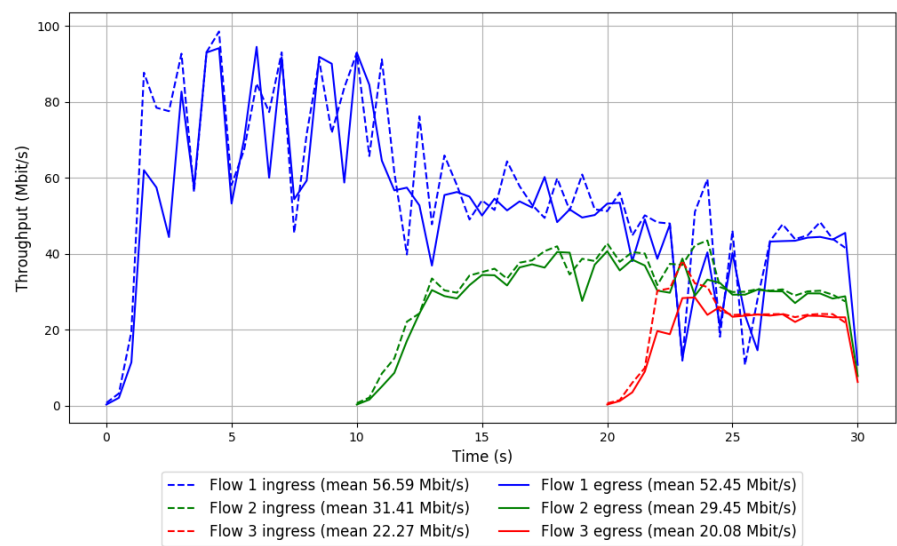
-- Flow 3:

Average throughput: 20.08 Mbit/s

95th percentile per-packet one-way delay: 171.217 ms

Loss rate: 9.78%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

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

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

Local clock offset: 4.422 ms

Remote clock offset: 3.957 ms

Below is generated by plot.py at 2018-04-17 21:05:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 81.83 Mbit/s

95th percentile per-packet one-way delay: 165.724 ms

Loss rate: 10.16%

-- Flow 1:

Average throughput: 51.47 Mbit/s

95th percentile per-packet one-way delay: 165.049 ms

Loss rate: 8.46%

-- Flow 2:

Average throughput: 35.69 Mbit/s

95th percentile per-packet one-way delay: 166.346 ms

Loss rate: 11.46%

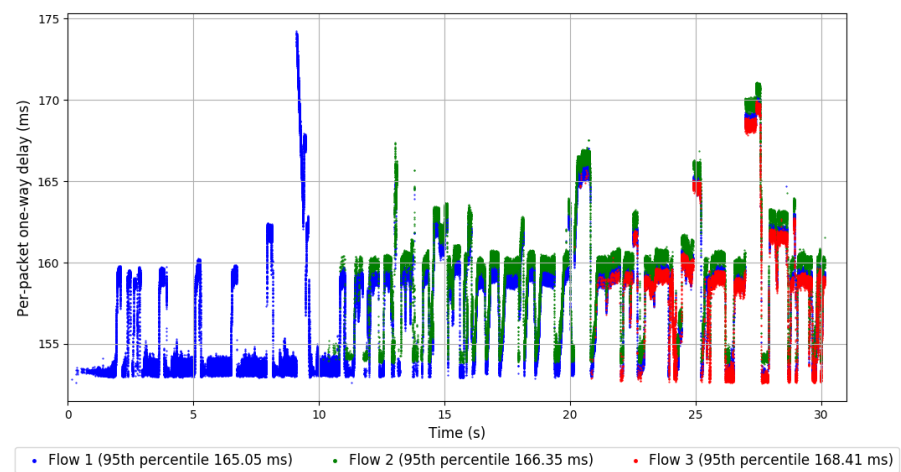
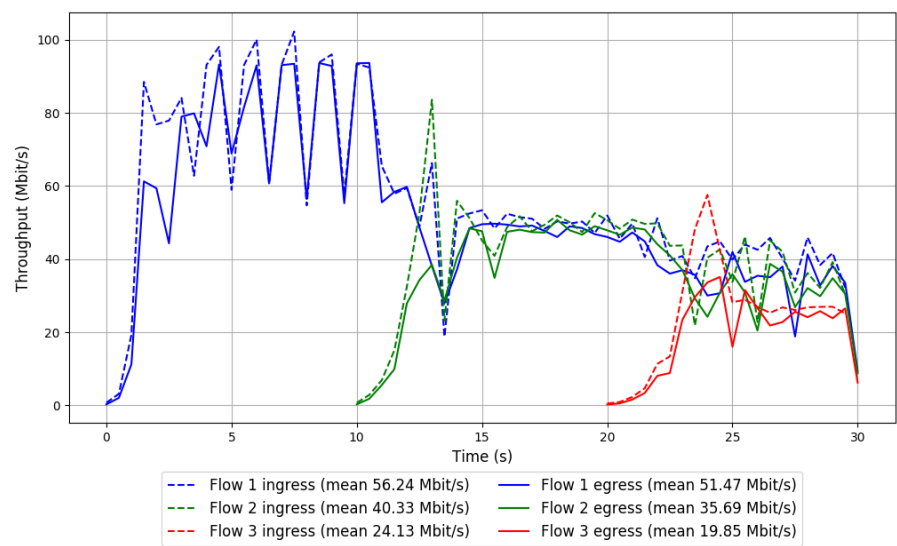
-- Flow 3:

Average throughput: 19.85 Mbit/s

95th percentile per-packet one-way delay: 168.414 ms

Loss rate: 17.74%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-04-17 18:40:33

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

Local clock offset: 5.421 ms

Remote clock offset: 1.599 ms

Below is generated by plot.py at 2018-04-17 21:05:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 79.96 Mbit/s

95th percentile per-packet one-way delay: 168.162 ms

Loss rate: 8.92%

-- Flow 1:

Average throughput: 49.98 Mbit/s

95th percentile per-packet one-way delay: 165.136 ms

Loss rate: 7.39%

-- Flow 2:

Average throughput: 32.57 Mbit/s

95th percentile per-packet one-way delay: 169.329 ms

Loss rate: 10.75%

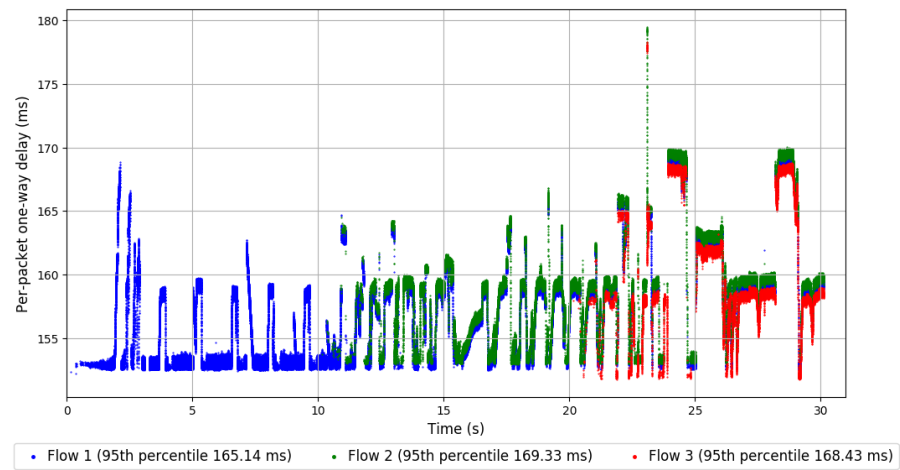
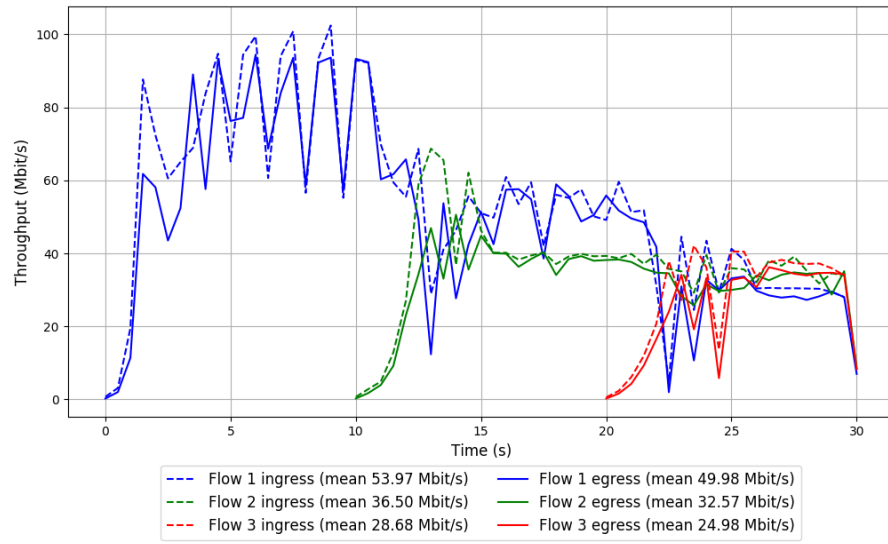
-- Flow 3:

Average throughput: 24.98 Mbit/s

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

Loss rate: 12.90%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-04-17 19:03:37

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

Local clock offset: 6.12 ms

Remote clock offset: 0.137 ms

Below is generated by plot.py at 2018-04-17 21:05:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 81.54 Mbit/s

95th percentile per-packet one-way delay: 164.104 ms

Loss rate: 9.05%

-- Flow 1:

Average throughput: 50.32 Mbit/s

95th percentile per-packet one-way delay: 161.890 ms

Loss rate: 7.65%

-- Flow 2:

Average throughput: 37.09 Mbit/s

95th percentile per-packet one-way delay: 163.936 ms

Loss rate: 12.24%

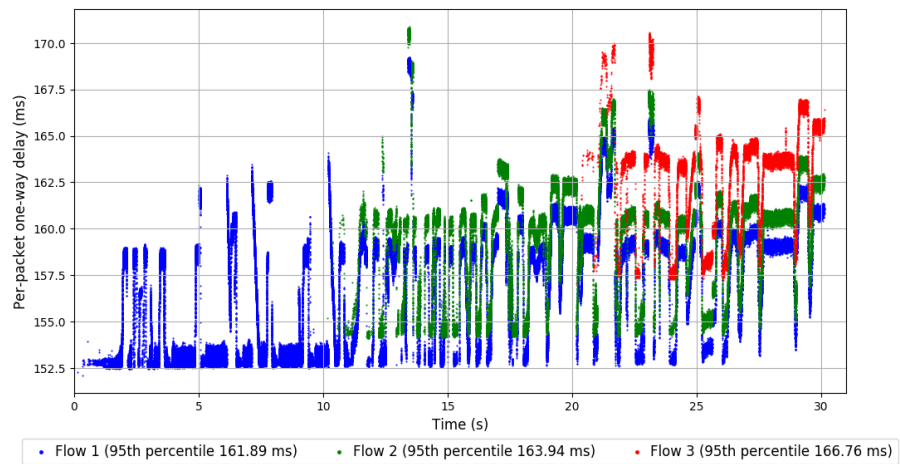
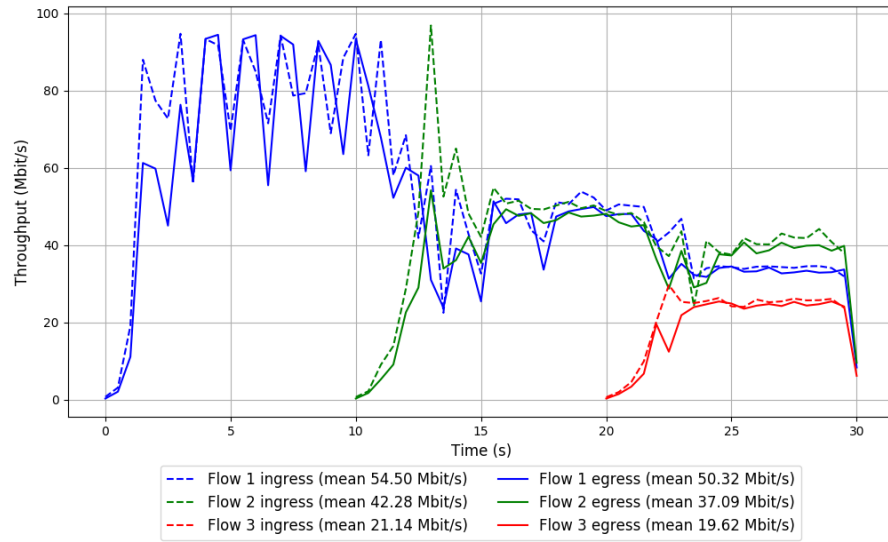
-- Flow 3:

Average throughput: 19.62 Mbit/s

95th percentile per-packet one-way delay: 166.763 ms

Loss rate: 7.10%

Run 6: Report of TCP BBR — Data Link

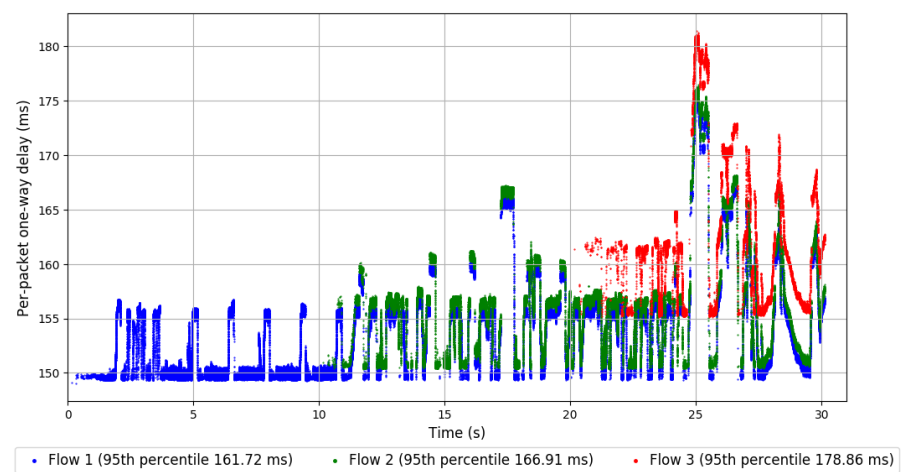
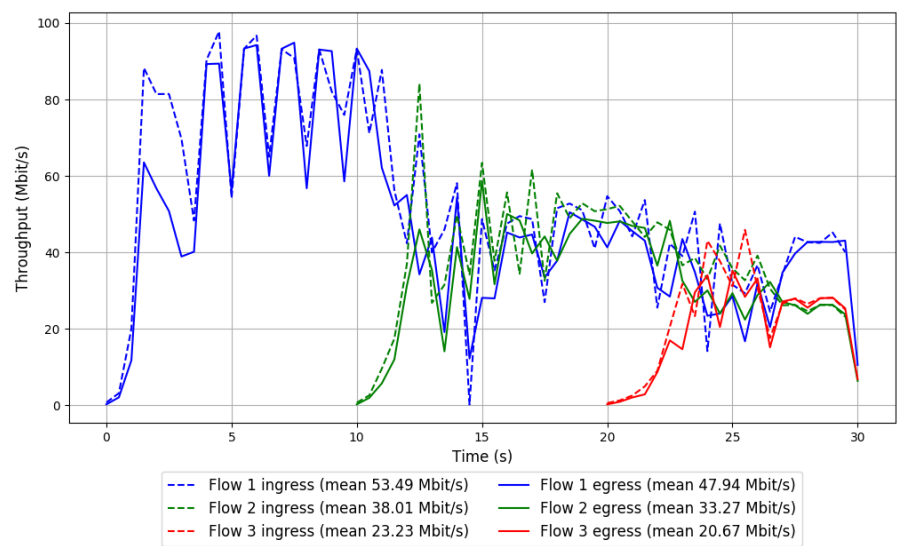


Run 7: Statistics of TCP BBR

Start at: 2018-04-17 19:26:34
End at: 2018-04-17 19:27:04
Local clock offset: 11.23 ms
Remote clock offset: -1.129 ms

Below is generated by plot.py at 2018-04-17 21:05:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 76.96 Mbit/s
95th percentile per-packet one-way delay: 166.711 ms
Loss rate: 11.03%
-- Flow 1:
Average throughput: 47.94 Mbit/s
95th percentile per-packet one-way delay: 161.722 ms
Loss rate: 10.35%
-- Flow 2:
Average throughput: 33.27 Mbit/s
95th percentile per-packet one-way delay: 166.912 ms
Loss rate: 12.45%
-- Flow 3:
Average throughput: 20.67 Mbit/s
95th percentile per-packet one-way delay: 178.860 ms
Loss rate: 11.08%

Run 7: Report of TCP BBR — Data Link

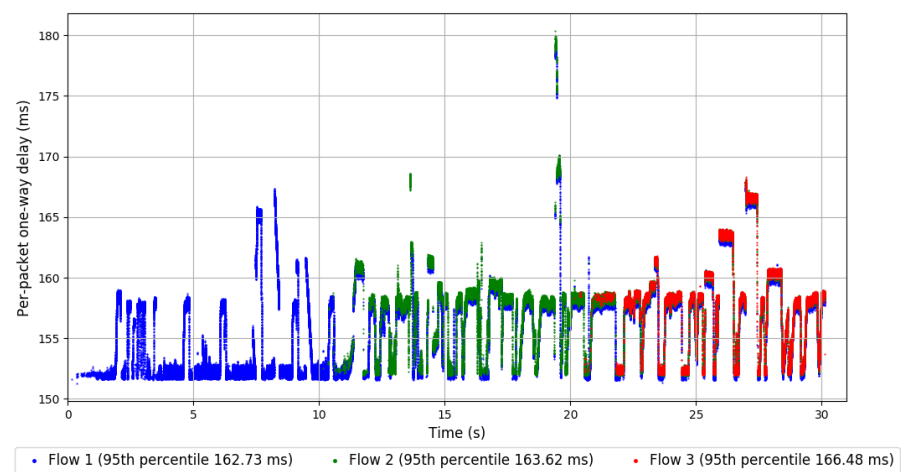
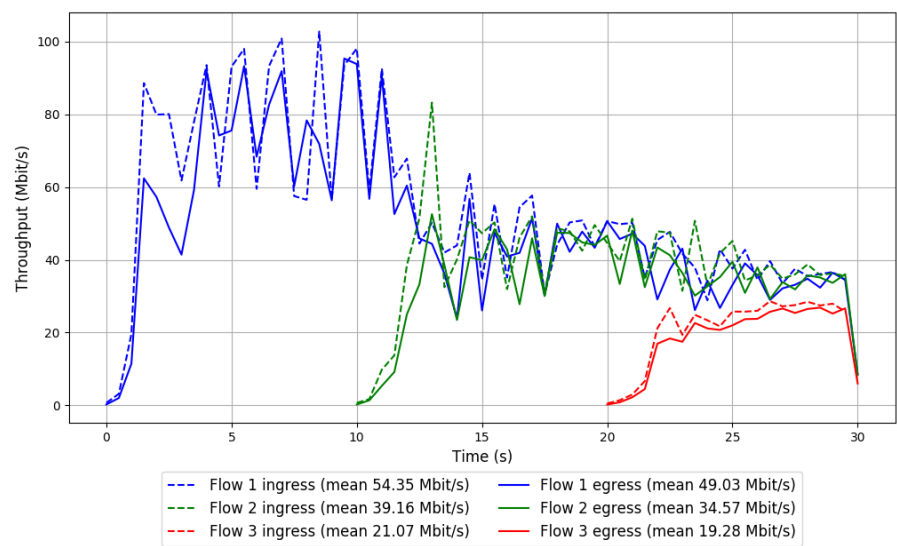


Run 8: Statistics of TCP BBR

Start at: 2018-04-17 19:49:23
End at: 2018-04-17 19:49:53
Local clock offset: 5.277 ms
Remote clock offset: -1.091 ms

Below is generated by plot.py at 2018-04-17 21:05:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 78.46 Mbit/s
95th percentile per-packet one-way delay: 163.400 ms
Loss rate: 10.25%
-- Flow 1:
Average throughput: 49.03 Mbit/s
95th percentile per-packet one-way delay: 162.726 ms
Loss rate: 9.77%
-- Flow 2:
Average throughput: 34.57 Mbit/s
95th percentile per-packet one-way delay: 163.622 ms
Loss rate: 11.69%
-- Flow 3:
Average throughput: 19.28 Mbit/s
95th percentile per-packet one-way delay: 166.477 ms
Loss rate: 8.56%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-04-17 20:12:21

End at: 2018-04-17 20:12:51

Local clock offset: 2.183 ms

Remote clock offset: -1.29 ms

Below is generated by plot.py at 2018-04-17 21:07:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 79.99 Mbit/s

95th percentile per-packet one-way delay: 164.593 ms

Loss rate: 9.32%

-- Flow 1:

Average throughput: 45.77 Mbit/s

95th percentile per-packet one-way delay: 162.251 ms

Loss rate: 8.38%

-- Flow 2:

Average throughput: 39.01 Mbit/s

95th percentile per-packet one-way delay: 165.320 ms

Loss rate: 9.74%

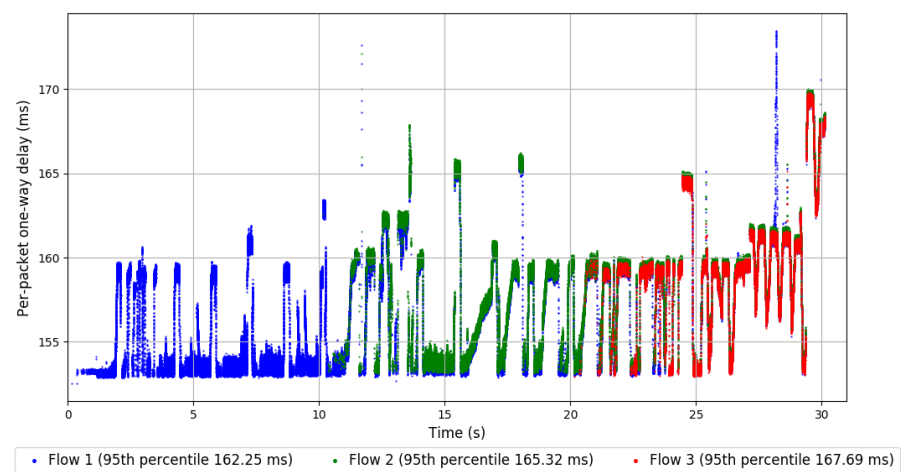
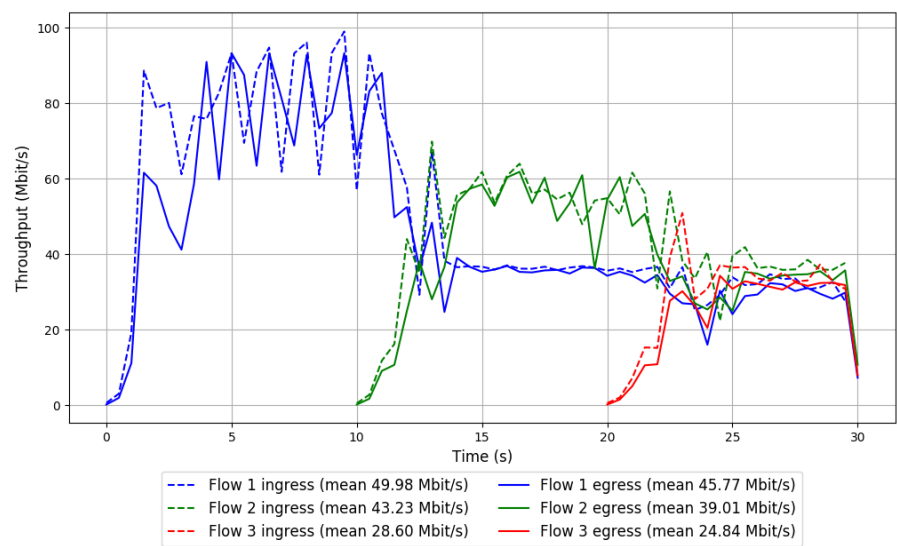
-- Flow 3:

Average throughput: 24.84 Mbit/s

95th percentile per-packet one-way delay: 167.692 ms

Loss rate: 13.02%

Run 9: Report of TCP BBR — Data Link

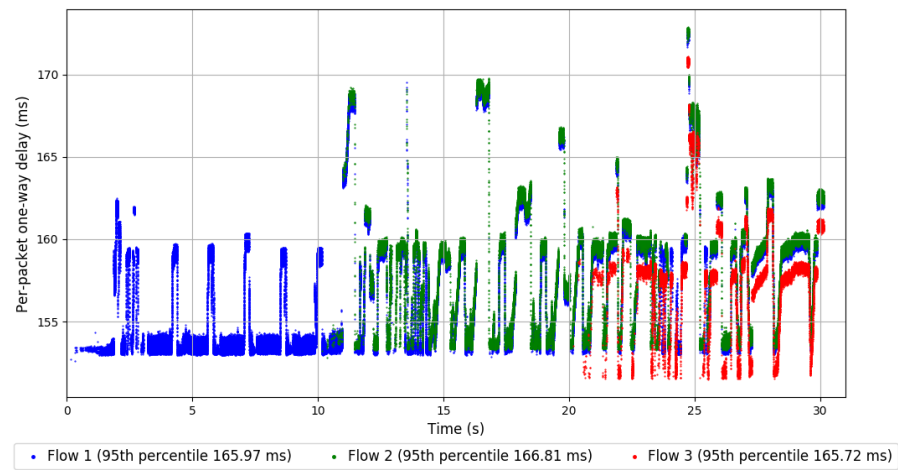
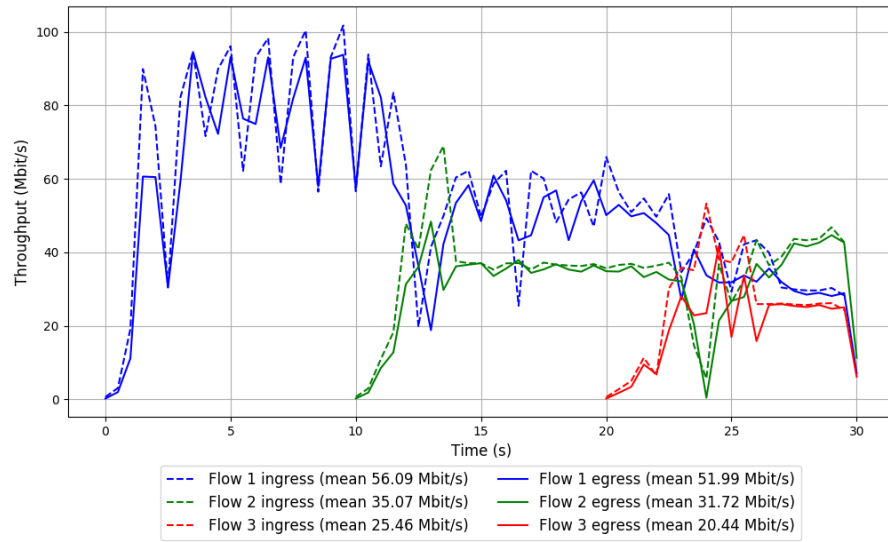


Run 10: Statistics of TCP BBR

Start at: 2018-04-17 20:35:16
End at: 2018-04-17 20:35:46
Local clock offset: 5.11 ms
Remote clock offset: -1.402 ms

Below is generated by plot.py at 2018-04-17 21:07:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 79.92 Mbit/s
95th percentile per-packet one-way delay: 166.135 ms
Loss rate: 9.06%
-- Flow 1:
Average throughput: 51.99 Mbit/s
95th percentile per-packet one-way delay: 165.969 ms
Loss rate: 7.28%
-- Flow 2:
Average throughput: 31.72 Mbit/s
95th percentile per-packet one-way delay: 166.805 ms
Loss rate: 9.51%
-- Flow 3:
Average throughput: 20.44 Mbit/s
95th percentile per-packet one-way delay: 165.717 ms
Loss rate: 19.65%

Run 10: Report of TCP BBR — Data Link

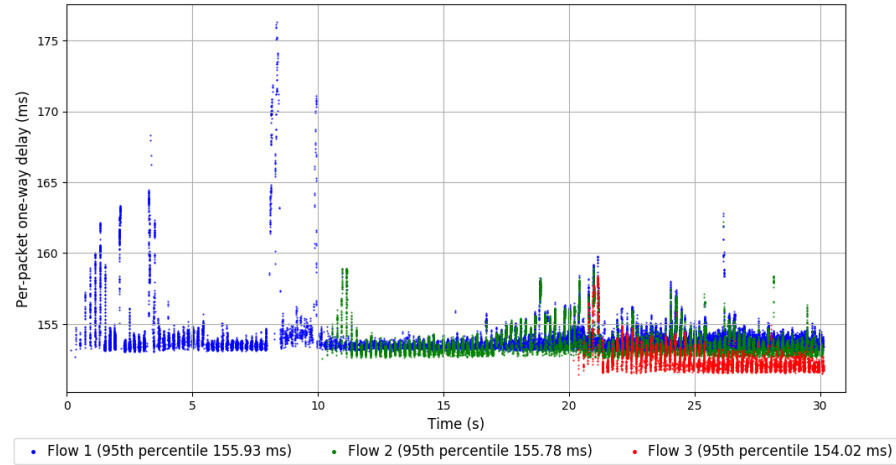
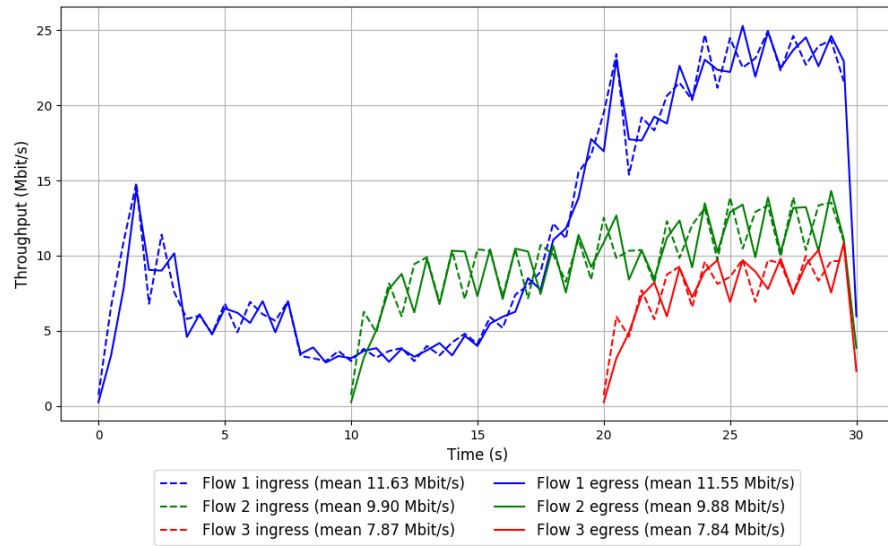


Run 1: Statistics of TCP Cubic

Start at: 2018-04-17 17:05:06
End at: 2018-04-17 17:05:36
Local clock offset: 5.625 ms
Remote clock offset: -3.033 ms

Below is generated by plot.py at 2018-04-17 21:07:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 20.72 Mbit/s
95th percentile per-packet one-way delay: 155.698 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 11.55 Mbit/s
95th percentile per-packet one-way delay: 155.928 ms
Loss rate: 0.68%
-- Flow 2:
Average throughput: 9.88 Mbit/s
95th percentile per-packet one-way delay: 155.783 ms
Loss rate: 0.26%
-- Flow 3:
Average throughput: 7.84 Mbit/s
95th percentile per-packet one-way delay: 154.022 ms
Loss rate: 0.43%

Run 1: Report of TCP Cubic — Data Link

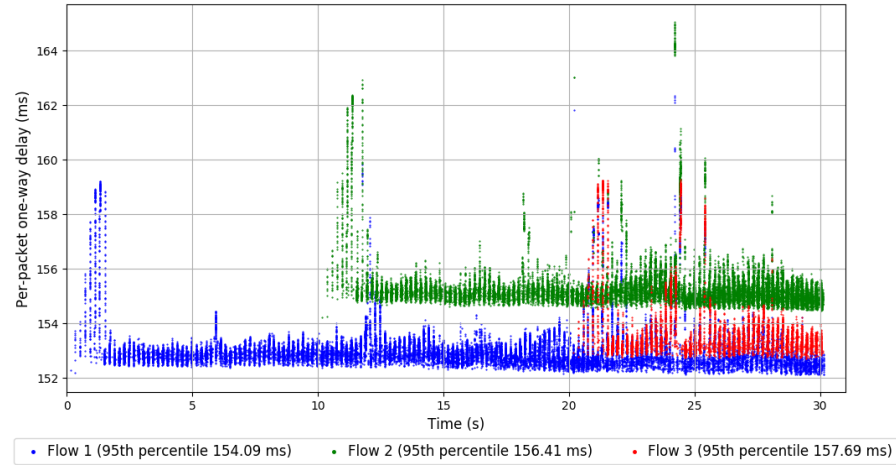
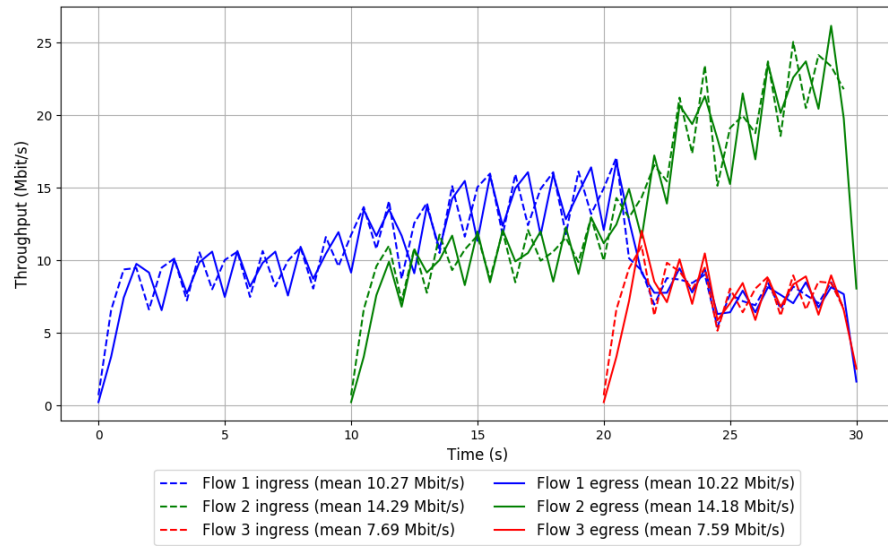


Run 2: Statistics of TCP Cubic

Start at: 2018-04-17 17:28:06
End at: 2018-04-17 17:28:36
Local clock offset: 6.68 ms
Remote clock offset: -0.269 ms

Below is generated by plot.py at 2018-04-17 21:07:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 22.16 Mbit/s
95th percentile per-packet one-way delay: 156.044 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 10.22 Mbit/s
95th percentile per-packet one-way delay: 154.091 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 14.18 Mbit/s
95th percentile per-packet one-way delay: 156.407 ms
Loss rate: 0.78%
-- Flow 3:
Average throughput: 7.59 Mbit/s
95th percentile per-packet one-way delay: 157.688 ms
Loss rate: 1.35%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

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

End at: 2018-04-17 17:51:31

Local clock offset: 7.993 ms

Remote clock offset: 5.867 ms

Below is generated by plot.py at 2018-04-17 21:07:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 39.43 Mbit/s

95th percentile per-packet one-way delay: 156.925 ms

Loss rate: 0.30%

-- Flow 1:

Average throughput: 28.97 Mbit/s

95th percentile per-packet one-way delay: 156.974 ms

Loss rate: 0.19%

-- Flow 2:

Average throughput: 8.42 Mbit/s

95th percentile per-packet one-way delay: 157.187 ms

Loss rate: 0.64%

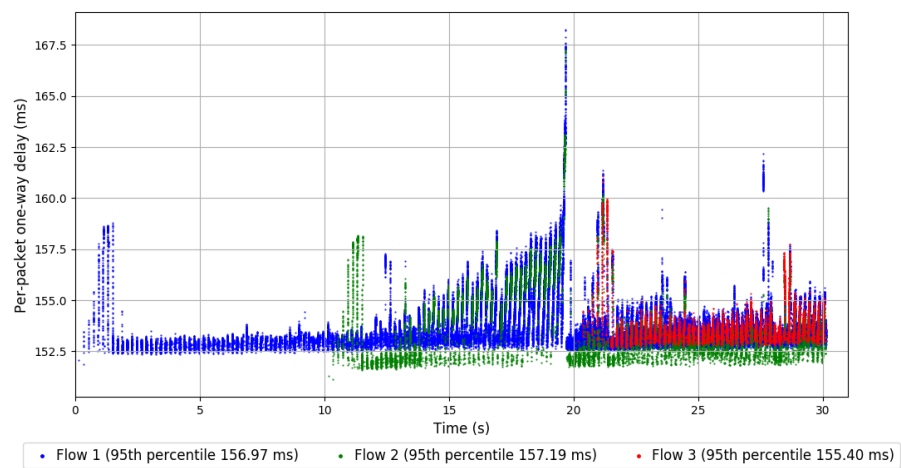
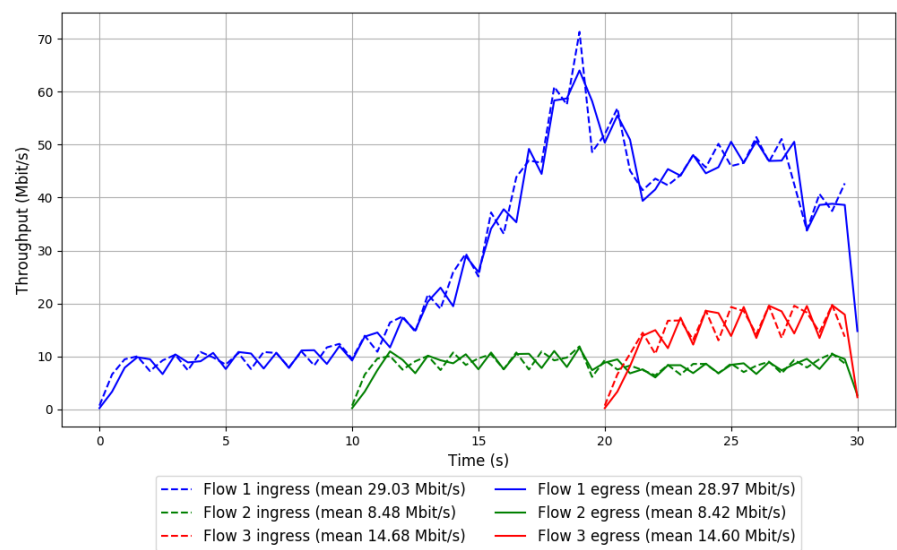
-- Flow 3:

Average throughput: 14.60 Mbit/s

95th percentile per-packet one-way delay: 155.403 ms

Loss rate: 0.56%

Run 3: Report of TCP Cubic — Data Link

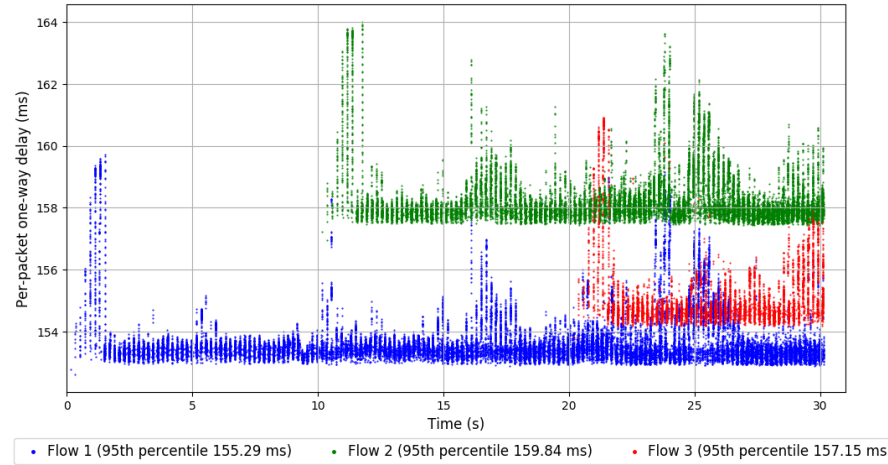
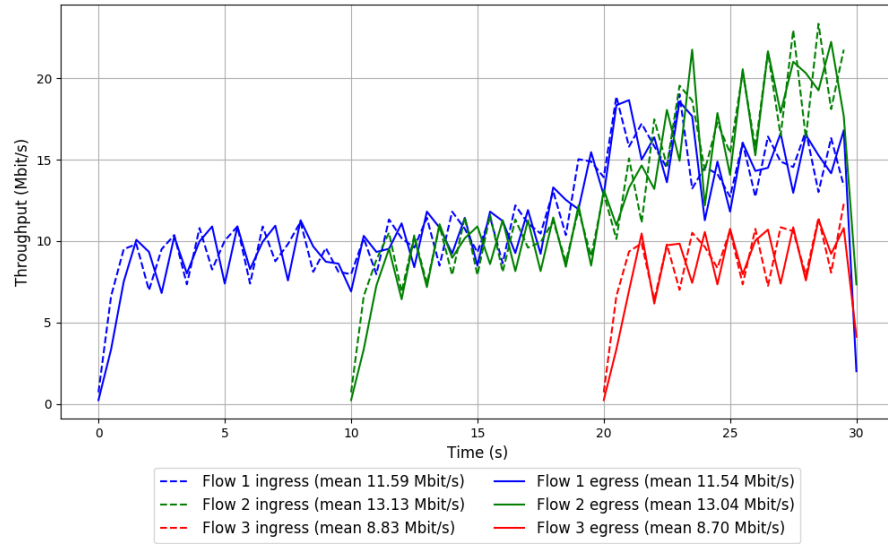


Run 4: Statistics of TCP Cubic

Start at: 2018-04-17 18:13:42
End at: 2018-04-17 18:14:12
Local clock offset: 4.528 ms
Remote clock offset: -6.839 ms

Below is generated by plot.py at 2018-04-17 21:07:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 23.11 Mbit/s
95th percentile per-packet one-way delay: 158.962 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 11.54 Mbit/s
95th percentile per-packet one-way delay: 155.293 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 13.04 Mbit/s
95th percentile per-packet one-way delay: 159.843 ms
Loss rate: 0.71%
-- Flow 3:
Average throughput: 8.70 Mbit/s
95th percentile per-packet one-way delay: 157.152 ms
Loss rate: 1.45%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-04-17 18:36:41

End at: 2018-04-17 18:37:11

Local clock offset: 5.169 ms

Remote clock offset: 1.66 ms

Below is generated by plot.py at 2018-04-17 21:07:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 34.35 Mbit/s

95th percentile per-packet one-way delay: 159.791 ms

Loss rate: 0.90%

-- Flow 1:

Average throughput: 23.20 Mbit/s

95th percentile per-packet one-way delay: 159.257 ms

Loss rate: 0.99%

-- Flow 2:

Average throughput: 13.16 Mbit/s

95th percentile per-packet one-way delay: 160.772 ms

Loss rate: 0.45%

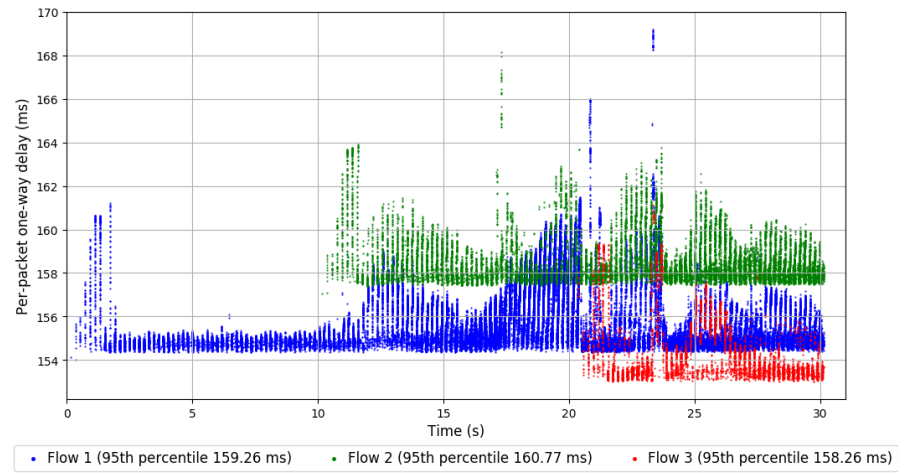
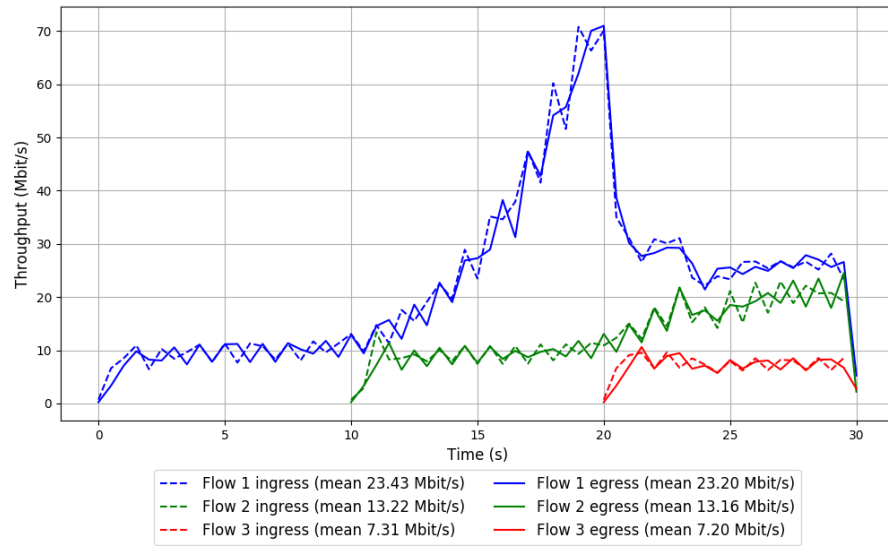
-- Flow 3:

Average throughput: 7.20 Mbit/s

95th percentile per-packet one-way delay: 158.265 ms

Loss rate: 1.60%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-04-17 18:59:45

End at: 2018-04-17 19:00:15

Local clock offset: 6.224 ms

Remote clock offset: 0.715 ms

Below is generated by plot.py at 2018-04-17 21:07:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 29.56 Mbit/s

95th percentile per-packet one-way delay: 155.247 ms

Loss rate: 0.55%

-- Flow 1:

Average throughput: 21.13 Mbit/s

95th percentile per-packet one-way delay: 154.703 ms

Loss rate: 0.39%

-- Flow 2:

Average throughput: 8.39 Mbit/s

95th percentile per-packet one-way delay: 156.065 ms

Loss rate: 0.73%

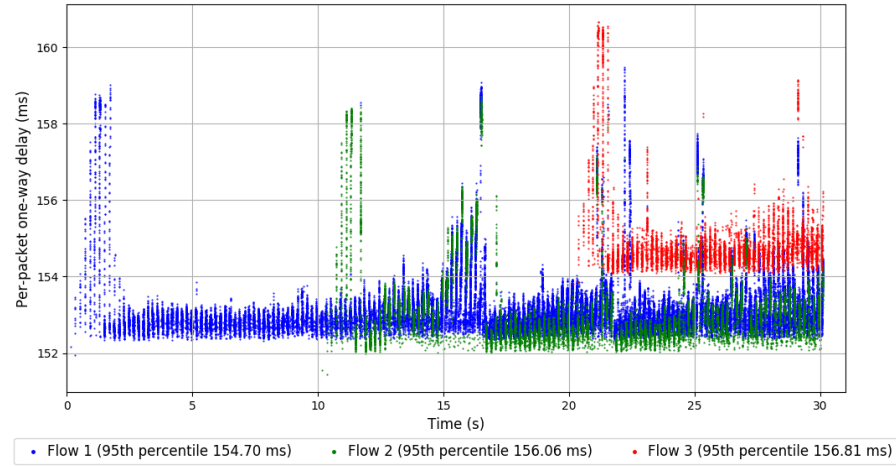
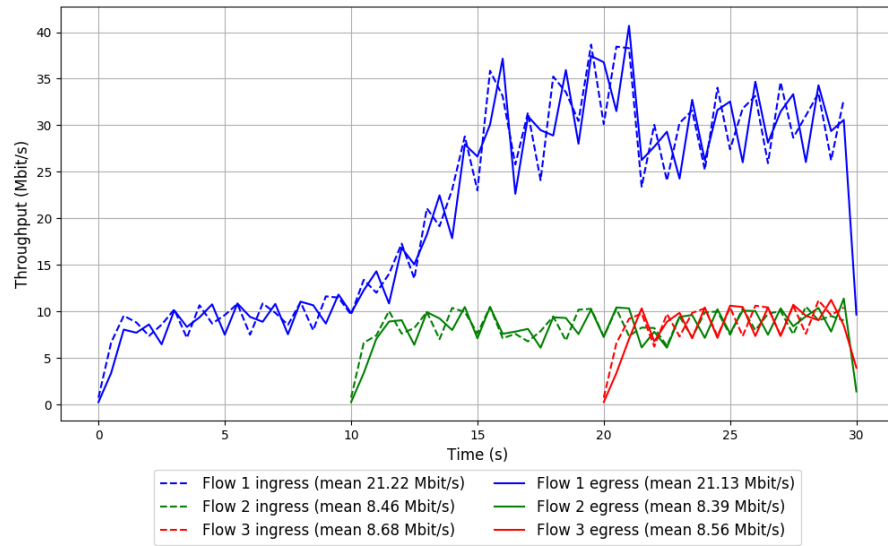
-- Flow 3:

Average throughput: 8.56 Mbit/s

95th percentile per-packet one-way delay: 156.811 ms

Loss rate: 1.35%

Run 6: Report of TCP Cubic — Data Link

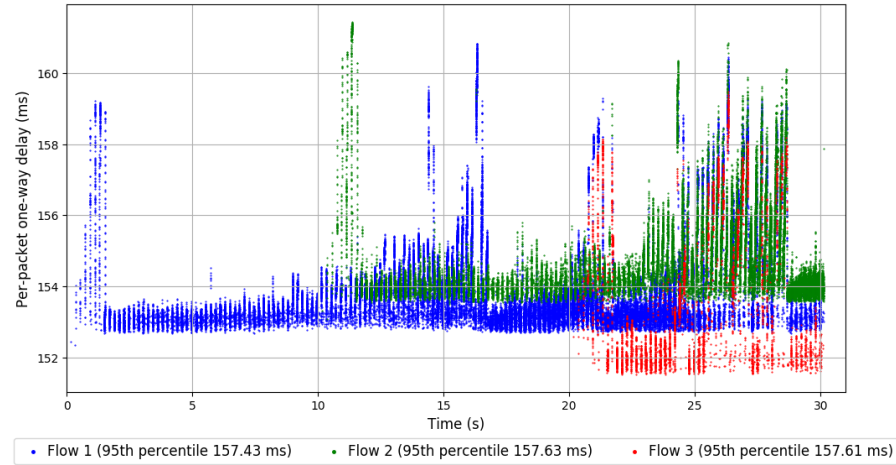
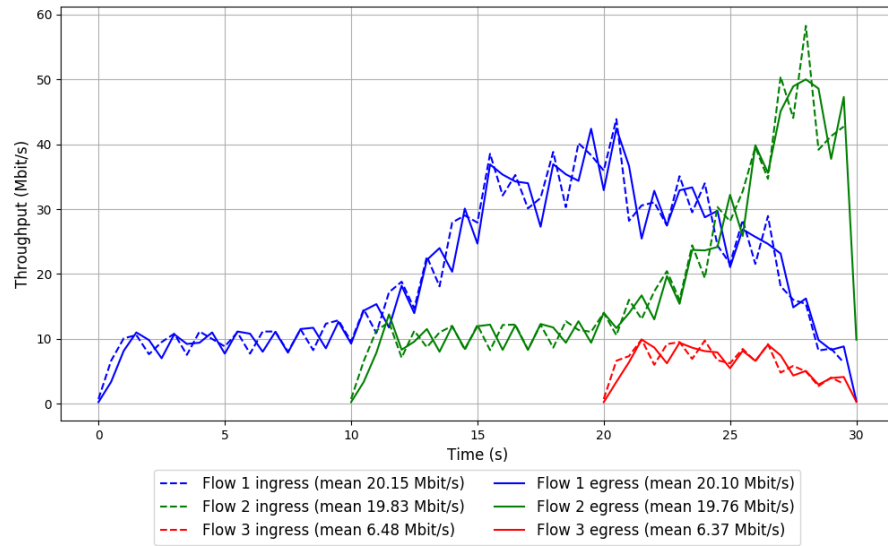


Run 7: Statistics of TCP Cubic

Start at: 2018-04-17 19:22:42
End at: 2018-04-17 19:23:12
Local clock offset: 10.764 ms
Remote clock offset: -0.911 ms

Below is generated by plot.py at 2018-04-17 21:07:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 35.36 Mbit/s
95th percentile per-packet one-way delay: 157.539 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 20.10 Mbit/s
95th percentile per-packet one-way delay: 157.432 ms
Loss rate: 0.24%
-- Flow 2:
Average throughput: 19.76 Mbit/s
95th percentile per-packet one-way delay: 157.627 ms
Loss rate: 0.35%
-- Flow 3:
Average throughput: 6.37 Mbit/s
95th percentile per-packet one-way delay: 157.614 ms
Loss rate: 1.59%

Run 7: Report of TCP Cubic — Data Link

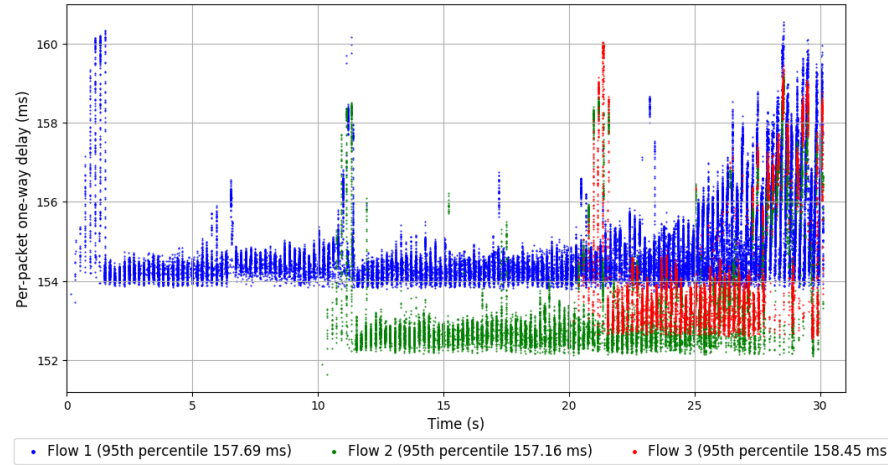
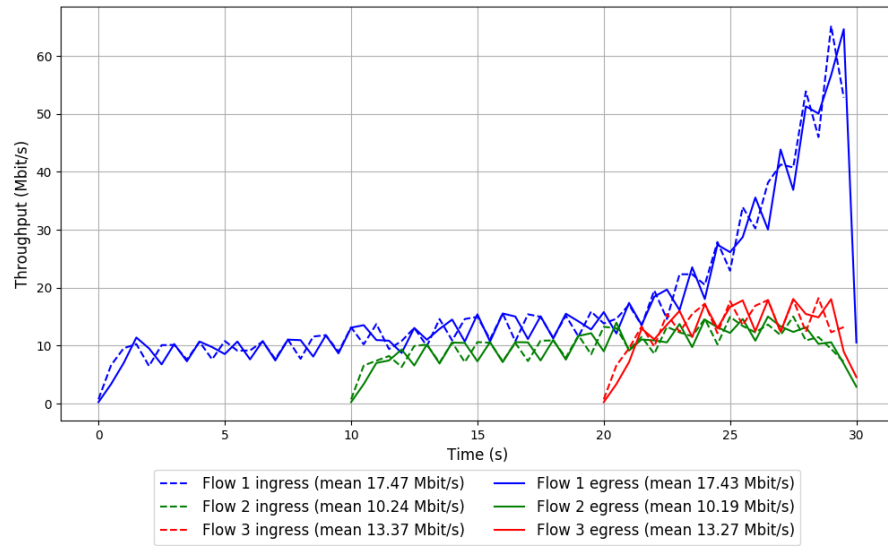


Run 8: Statistics of TCP Cubic

Start at: 2018-04-17 19:45:31
End at: 2018-04-17 19:46:01
Local clock offset: 6.819 ms
Remote clock offset: -0.758 ms

Below is generated by plot.py at 2018-04-17 21:07:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 28.60 Mbit/s
95th percentile per-packet one-way delay: 157.771 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 17.43 Mbit/s
95th percentile per-packet one-way delay: 157.687 ms
Loss rate: 0.22%
-- Flow 2:
Average throughput: 10.19 Mbit/s
95th percentile per-packet one-way delay: 157.159 ms
Loss rate: 0.50%
-- Flow 3:
Average throughput: 13.27 Mbit/s
95th percentile per-packet one-way delay: 158.446 ms
Loss rate: 0.72%

Run 8: Report of TCP Cubic — Data Link

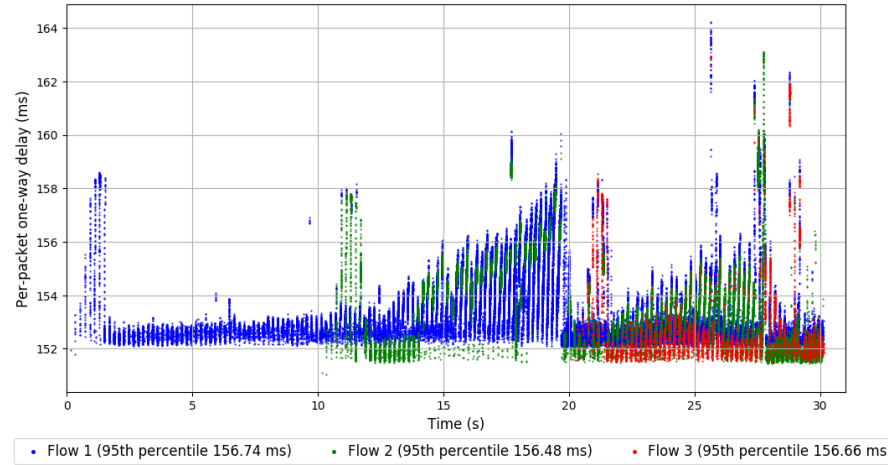
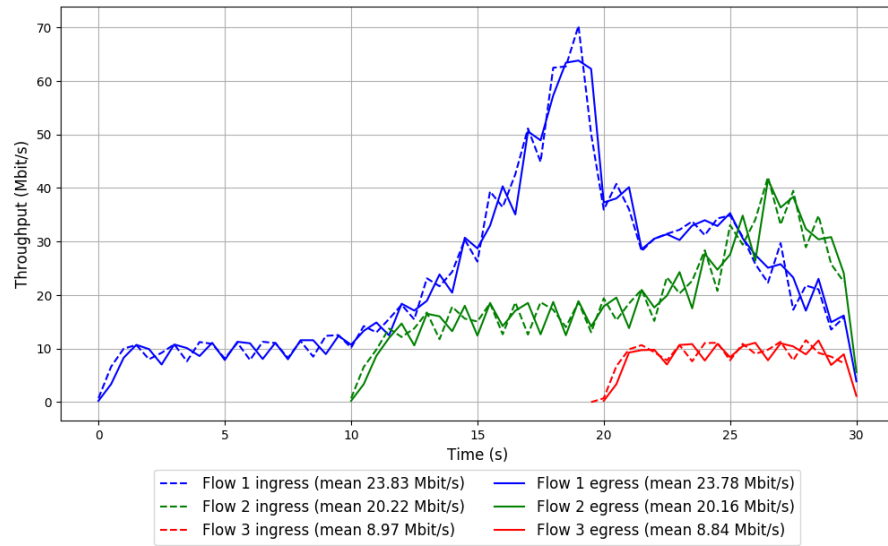


Run 9: Statistics of TCP Cubic

Start at: 2018-04-17 20:08:28
End at: 2018-04-17 20:08:58
Local clock offset: 2.219 ms
Remote clock offset: -1.496 ms

Below is generated by plot.py at 2018-04-17 21:07:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 40.13 Mbit/s
95th percentile per-packet one-way delay: 156.637 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 23.78 Mbit/s
95th percentile per-packet one-way delay: 156.735 ms
Loss rate: 0.22%
-- Flow 2:
Average throughput: 20.16 Mbit/s
95th percentile per-packet one-way delay: 156.482 ms
Loss rate: 0.30%
-- Flow 3:
Average throughput: 8.84 Mbit/s
95th percentile per-packet one-way delay: 156.657 ms
Loss rate: 1.37%

Run 9: Report of TCP Cubic — Data Link

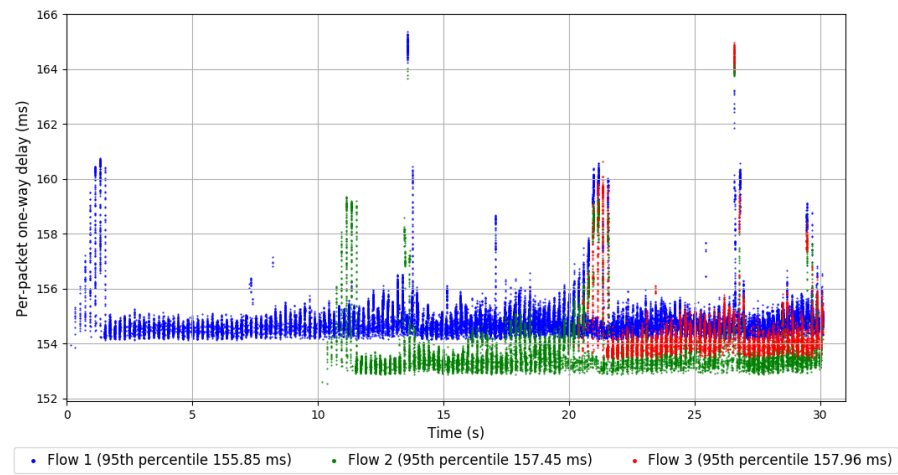
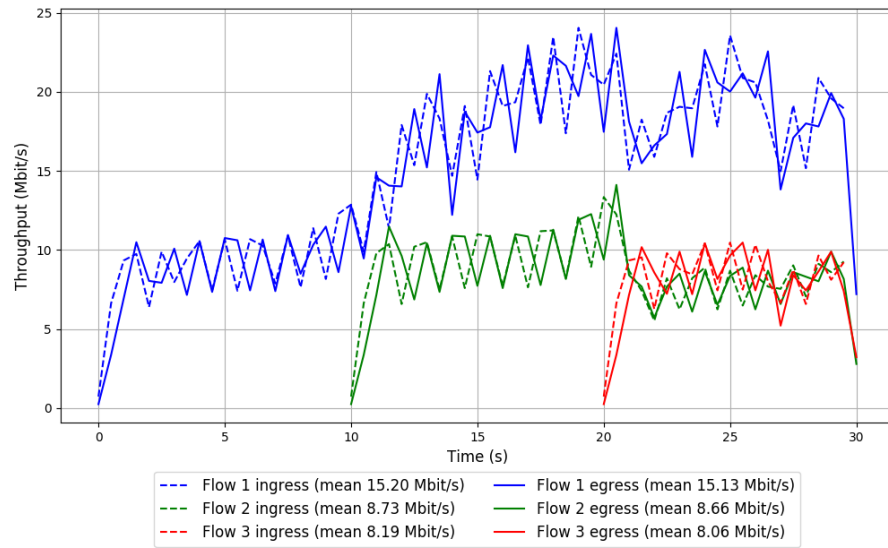


Run 10: Statistics of TCP Cubic

Start at: 2018-04-17 20:31:24
End at: 2018-04-17 20:31:54
Local clock offset: 5.11 ms
Remote clock offset: -1.311 ms

Below is generated by plot.py at 2018-04-17 21:07:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 23.57 Mbit/s
95th percentile per-packet one-way delay: 156.219 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 15.13 Mbit/s
95th percentile per-packet one-way delay: 155.850 ms
Loss rate: 0.41%
-- Flow 2:
Average throughput: 8.66 Mbit/s
95th percentile per-packet one-way delay: 157.446 ms
Loss rate: 0.70%
-- Flow 3:
Average throughput: 8.06 Mbit/s
95th percentile per-packet one-way delay: 157.955 ms
Loss rate: 1.51%

Run 10: Report of TCP Cubic — Data Link

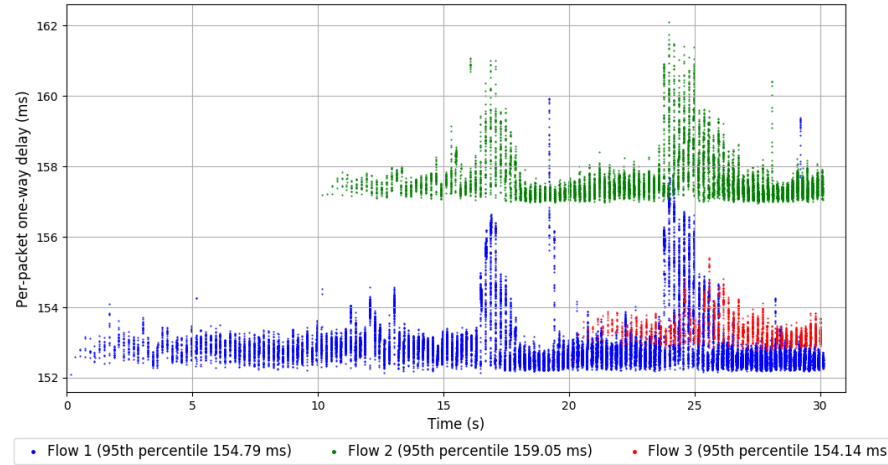
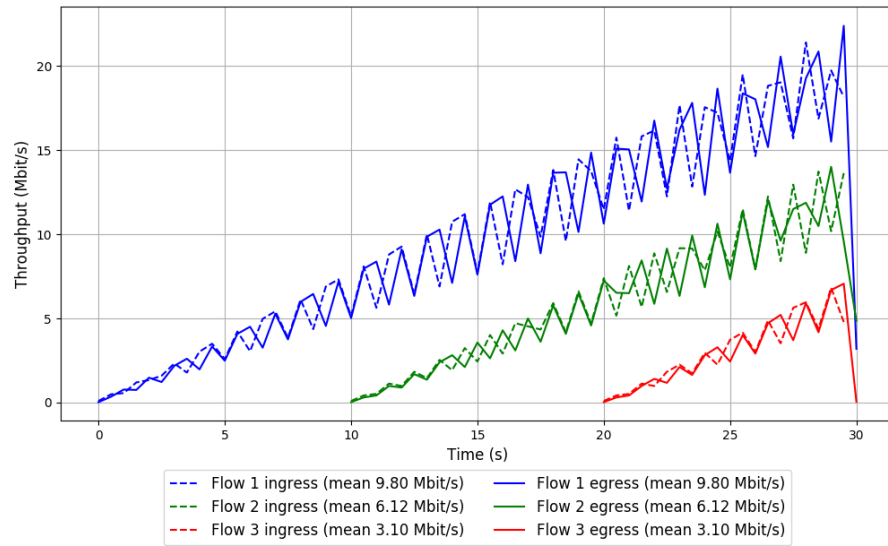


```
Run 1: Statistics of LEDBAT

Start at: 2018-04-17 16:58:14
End at: 2018-04-17 16:58:44
Local clock offset: 6.271 ms
Remote clock offset: -2.266 ms

# Below is generated by plot.py at 2018-04-17 21:07:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 14.89 Mbit/s
95th percentile per-packet one-way delay: 157.866 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 9.80 Mbit/s
95th percentile per-packet one-way delay: 154.789 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 6.12 Mbit/s
95th percentile per-packet one-way delay: 159.049 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 3.10 Mbit/s
95th percentile per-packet one-way delay: 154.143 ms
Loss rate: 0.00%
```

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2018-04-17 17:21:09

End at: 2018-04-17 17:21:39

Local clock offset: 5.539 ms

Remote clock offset: 9.143 ms

Below is generated by plot.py at 2018-04-17 21:07:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 10.80 Mbit/s

95th percentile per-packet one-way delay: 155.072 ms

Loss rate: 0.21%

-- Flow 1:

Average throughput: 5.41 Mbit/s

95th percentile per-packet one-way delay: 155.626 ms

Loss rate: 0.41%

-- Flow 2:

Average throughput: 6.57 Mbit/s

95th percentile per-packet one-way delay: 153.048 ms

Loss rate: 0.00%

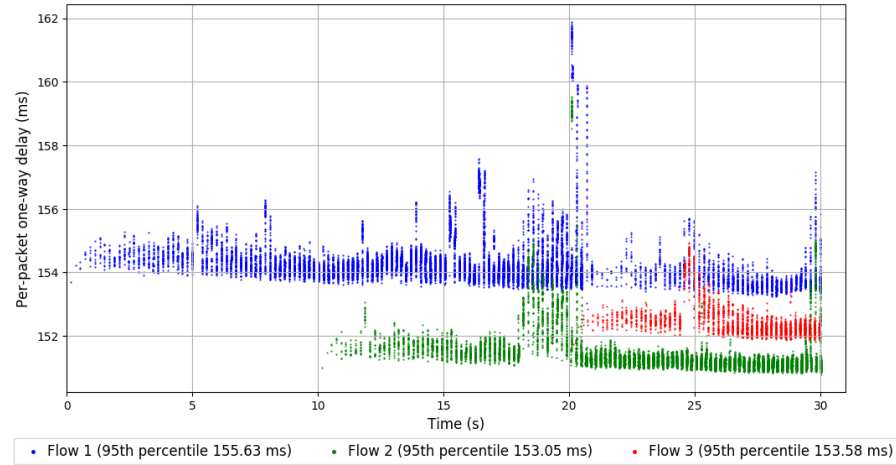
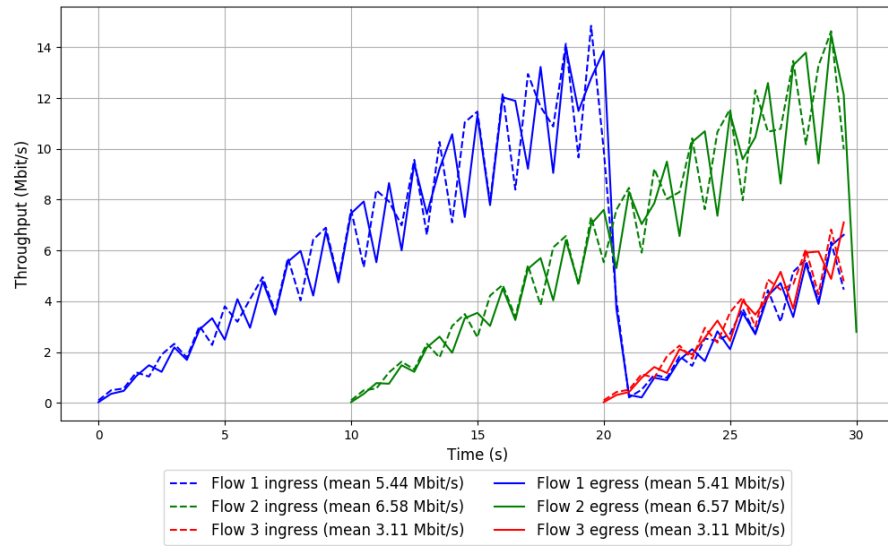
-- Flow 3:

Average throughput: 3.11 Mbit/s

95th percentile per-packet one-way delay: 153.577 ms

Loss rate: 0.00%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

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

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

Local clock offset: 7.749 ms

Remote clock offset: 9.228 ms

Below is generated by plot.py at 2018-04-17 21:07:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 9.65 Mbit/s

95th percentile per-packet one-way delay: 158.302 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 5.94 Mbit/s

95th percentile per-packet one-way delay: 158.823 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 4.06 Mbit/s

95th percentile per-packet one-way delay: 154.481 ms

Loss rate: 0.20%

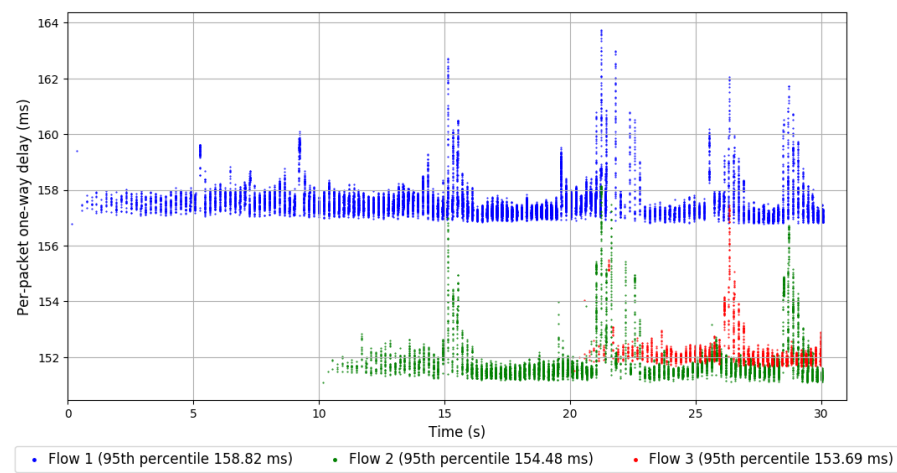
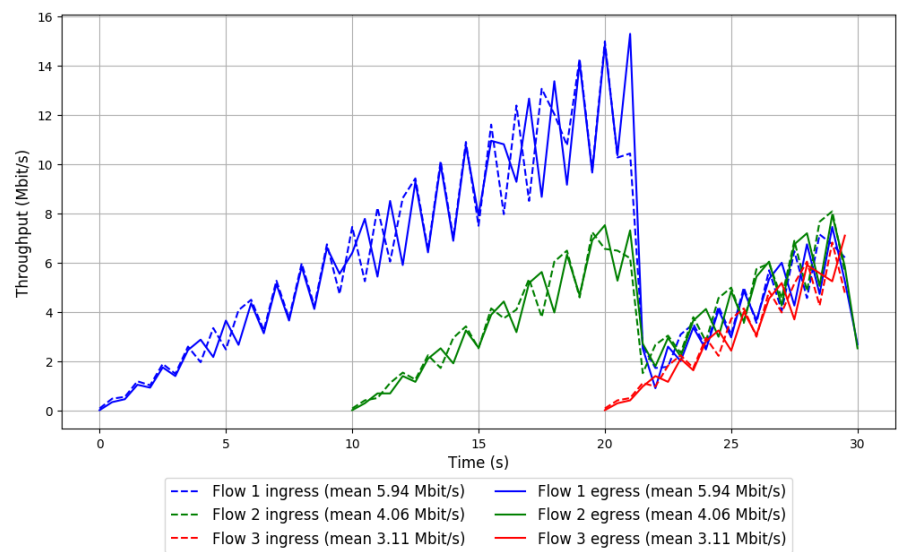
-- Flow 3:

Average throughput: 3.11 Mbit/s

95th percentile per-packet one-way delay: 153.690 ms

Loss rate: 0.00%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-04-17 18:07:03

End at: 2018-04-17 18:07:33

Local clock offset: 5.353 ms

Remote clock offset: -6.87 ms

Below is generated by plot.py at 2018-04-17 21:07:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.05 Mbit/s

95th percentile per-packet one-way delay: 154.180 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 9.76 Mbit/s

95th percentile per-packet one-way delay: 153.872 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 6.43 Mbit/s

95th percentile per-packet one-way delay: 153.766 ms

Loss rate: 0.00%

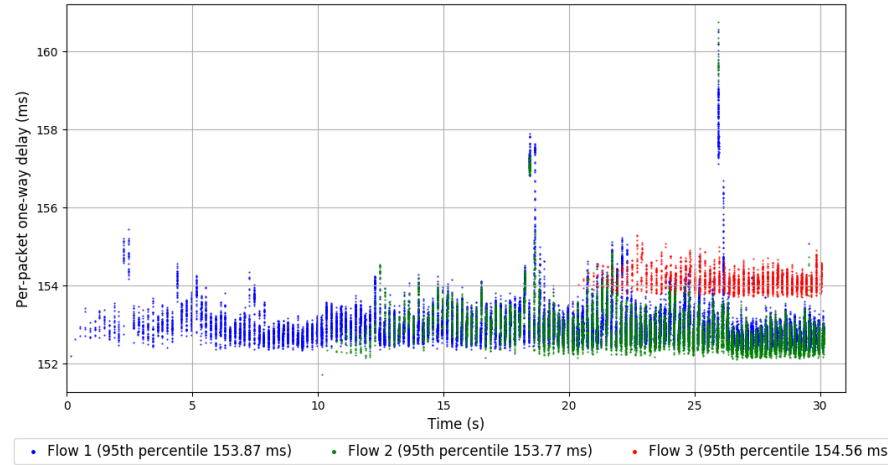
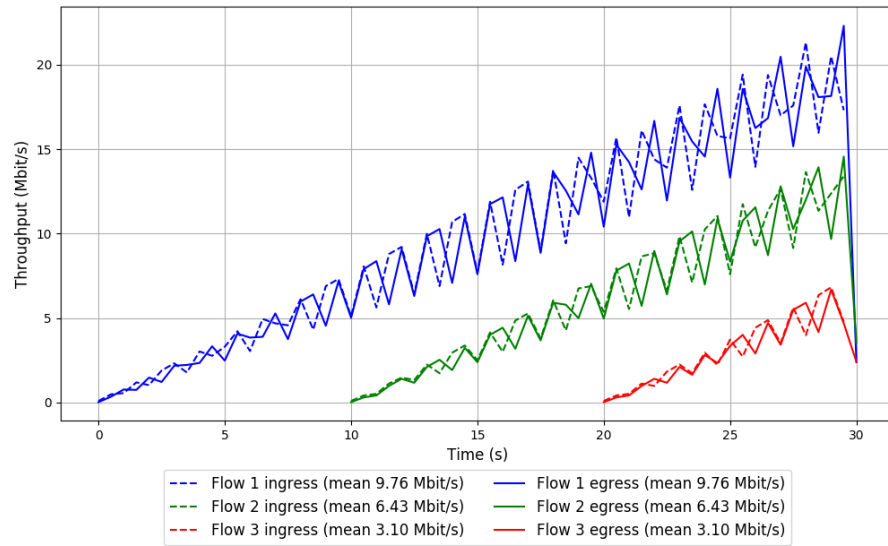
-- Flow 3:

Average throughput: 3.10 Mbit/s

95th percentile per-packet one-way delay: 154.565 ms

Loss rate: 0.00%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-04-17 18:29:43

End at: 2018-04-17 18:30:13

Local clock offset: 3.872 ms

Remote clock offset: 2.117 ms

Below is generated by plot.py at 2018-04-17 21:07:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.07 Mbit/s

95th percentile per-packet one-way delay: 153.657 ms

Loss rate: 0.15%

-- Flow 1:

Average throughput: 9.90 Mbit/s

95th percentile per-packet one-way delay: 152.990 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 6.27 Mbit/s

95th percentile per-packet one-way delay: 153.892 ms

Loss rate: 0.55%

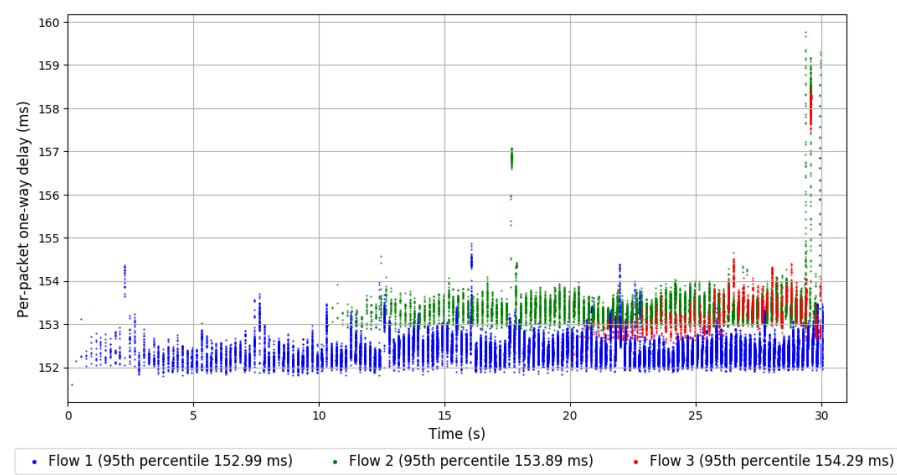
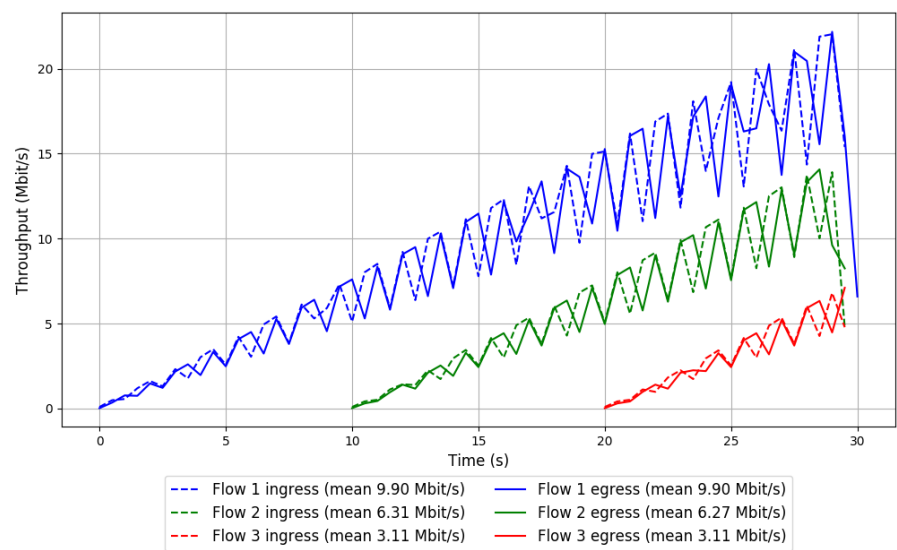
-- Flow 3:

Average throughput: 3.11 Mbit/s

95th percentile per-packet one-way delay: 154.289 ms

Loss rate: 0.00%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-04-17 18:52:49

End at: 2018-04-17 18:53:19

Local clock offset: 5.91 ms

Remote clock offset: 1.909 ms

Below is generated by plot.py at 2018-04-17 21:07:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 16.45 Mbit/s

95th percentile per-packet one-way delay: 145.762 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 10.68 Mbit/s

95th percentile per-packet one-way delay: 145.793 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 7.05 Mbit/s

95th percentile per-packet one-way delay: 145.545 ms

Loss rate: 0.00%

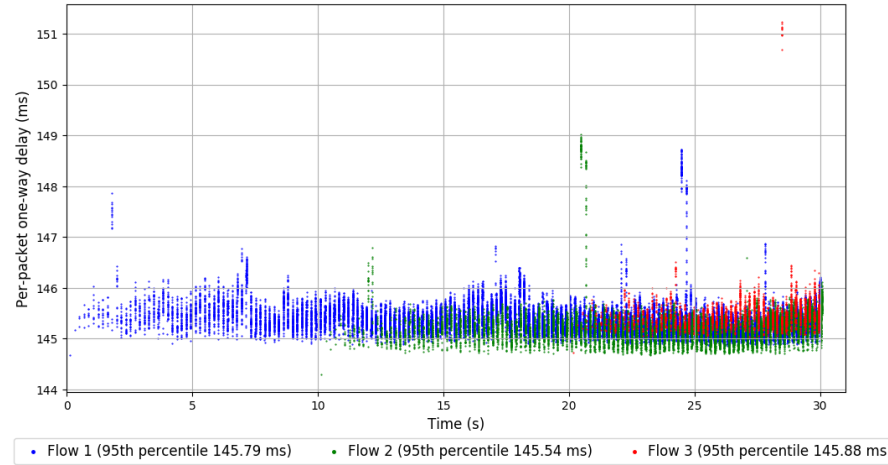
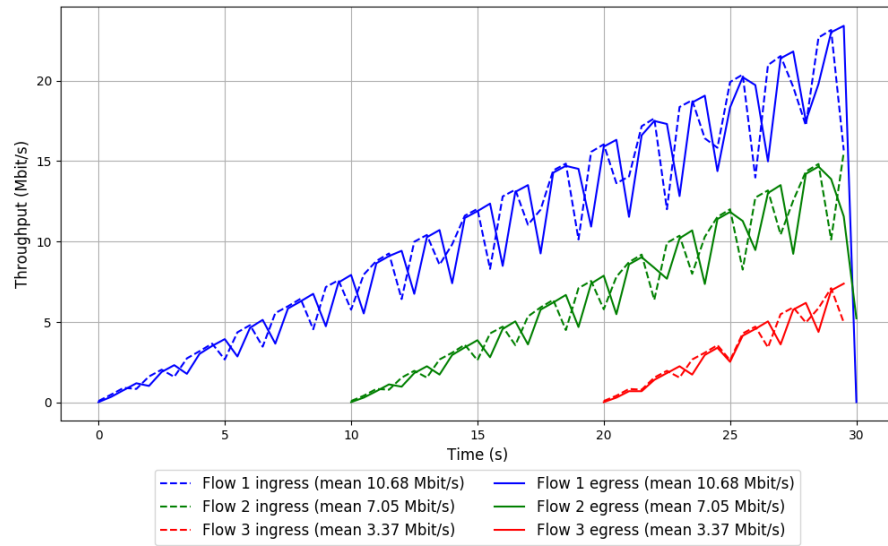
-- Flow 3:

Average throughput: 3.37 Mbit/s

95th percentile per-packet one-way delay: 145.883 ms

Loss rate: 0.00%

Run 6: Report of LEDBAT — Data Link

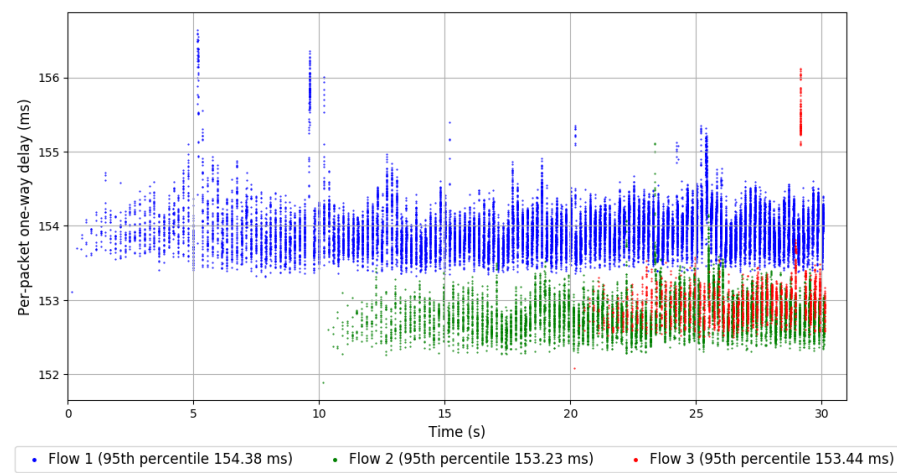
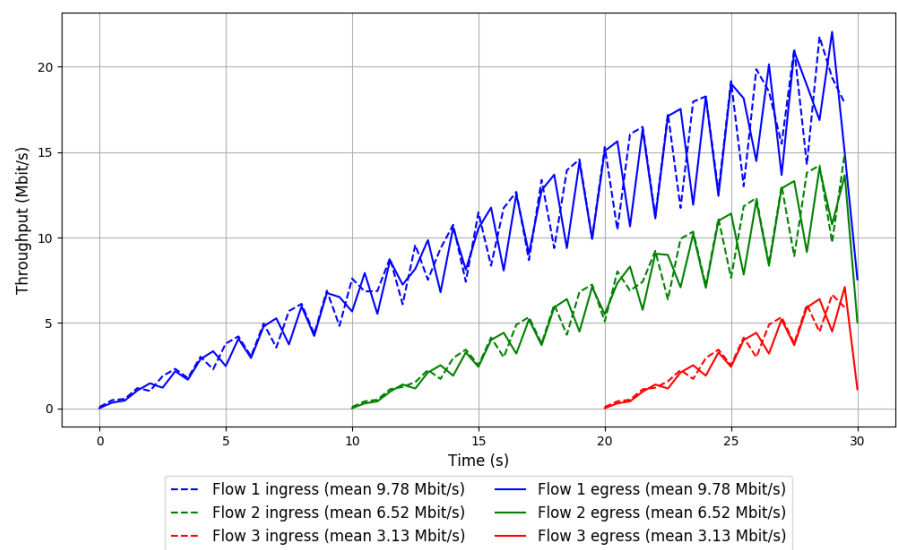


Run 7: Statistics of LEDBAT

Start at: 2018-04-17 19:15:51
End at: 2018-04-17 19:16:21
Local clock offset: 9.688 ms
Remote clock offset: -0.768 ms

Below is generated by plot.py at 2018-04-17 21:07:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 15.13 Mbit/s
95th percentile per-packet one-way delay: 154.310 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 9.78 Mbit/s
95th percentile per-packet one-way delay: 154.378 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 6.52 Mbit/s
95th percentile per-packet one-way delay: 153.231 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 3.13 Mbit/s
95th percentile per-packet one-way delay: 153.444 ms
Loss rate: 0.00%

Run 7: Report of LEDBAT — Data Link

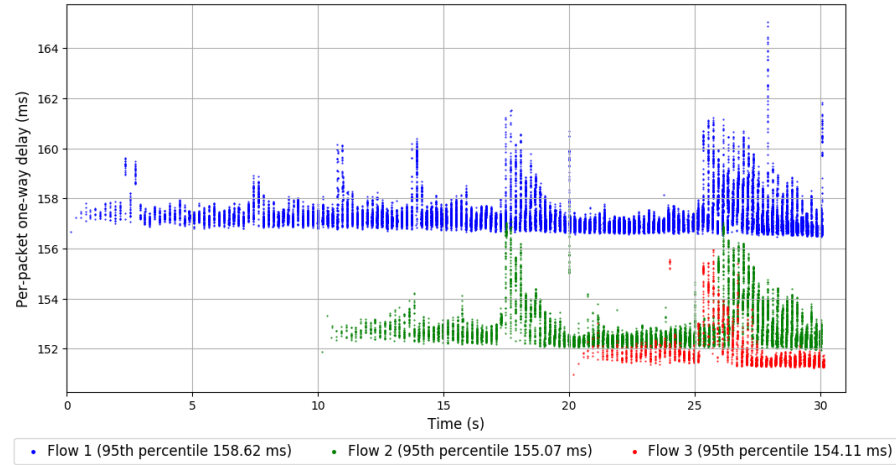
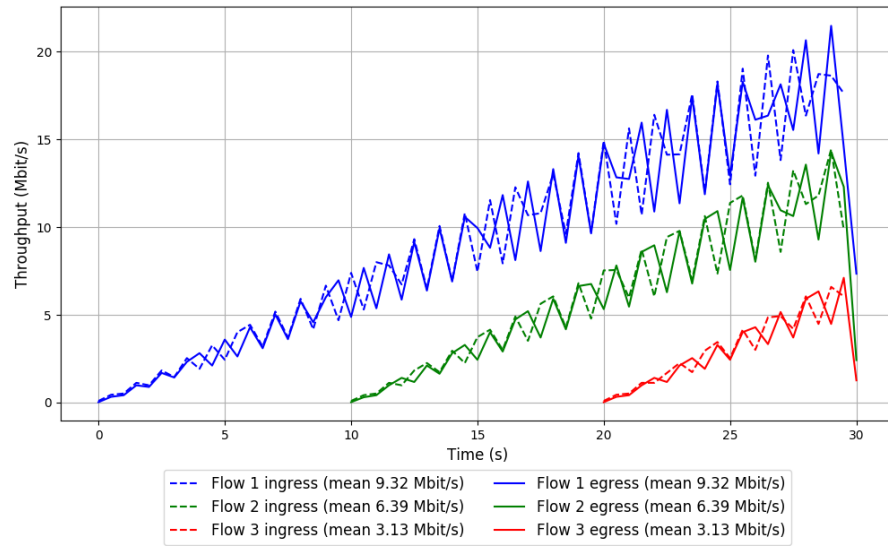


Run 8: Statistics of LEDBAT

Start at: 2018-04-17 19:38:44
End at: 2018-04-17 19:39:14
Local clock offset: 11.511 ms
Remote clock offset: -2.186 ms

```
# Below is generated by plot.py at 2018-04-17 21:07:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 14.59 Mbit/s
95th percentile per-packet one-way delay: 158.249 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 9.32 Mbit/s
95th percentile per-packet one-way delay: 158.623 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 6.39 Mbit/s
95th percentile per-packet one-way delay: 155.073 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 3.13 Mbit/s
95th percentile per-packet one-way delay: 154.111 ms
Loss rate: 0.00%
```

Run 8: Report of LEDBAT — Data Link

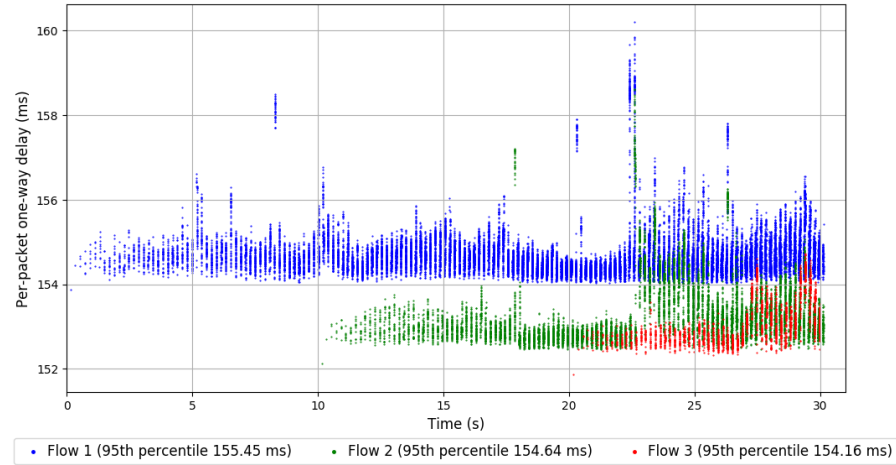
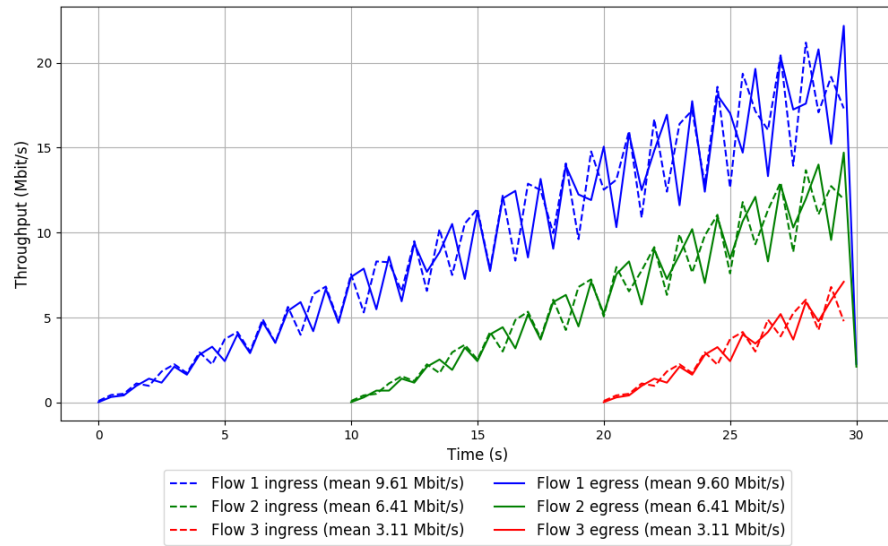


Run 9: Statistics of LEDBAT

Start at: 2018-04-17 20:01:42
End at: 2018-04-17 20:02:12
Local clock offset: 3.018 ms
Remote clock offset: -1.893 ms

Below is generated by plot.py at 2018-04-17 21:07:23
Datalink statistics
-- Total of 3 flows:
Average throughput: 14.89 Mbit/s
95th percentile per-packet one-way delay: 155.311 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 9.60 Mbit/s
95th percentile per-packet one-way delay: 155.453 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 6.41 Mbit/s
95th percentile per-packet one-way delay: 154.641 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 3.11 Mbit/s
95th percentile per-packet one-way delay: 154.160 ms
Loss rate: 0.00%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-04-17 20:24:31

End at: 2018-04-17 20:25:01

Local clock offset: 4.673 ms

Remote clock offset: -1.17 ms

Below is generated by plot.py at 2018-04-17 21:07:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 11.09 Mbit/s

95th percentile per-packet one-way delay: 158.228 ms

Loss rate: 0.11%

-- Flow 1:

Average throughput: 5.90 Mbit/s

95th percentile per-packet one-way delay: 158.572 ms

Loss rate: 0.18%

-- Flow 2:

Average throughput: 6.29 Mbit/s

95th percentile per-packet one-way delay: 156.607 ms

Loss rate: 0.04%

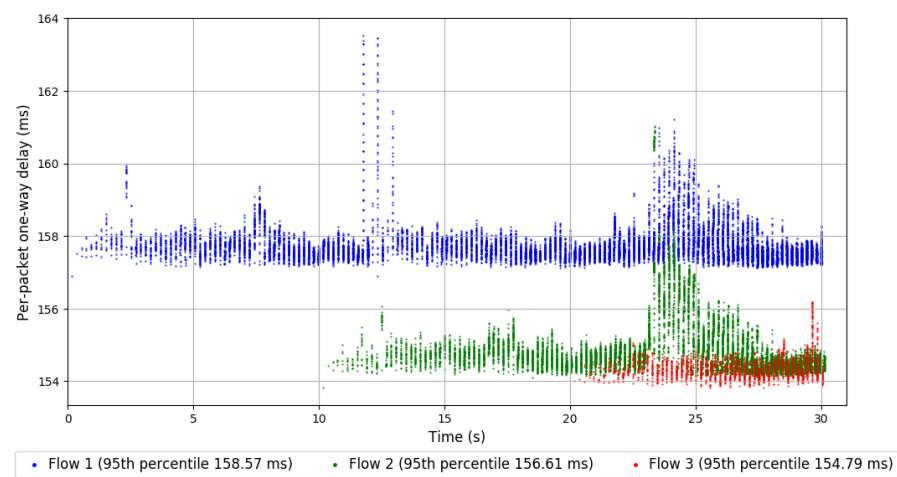
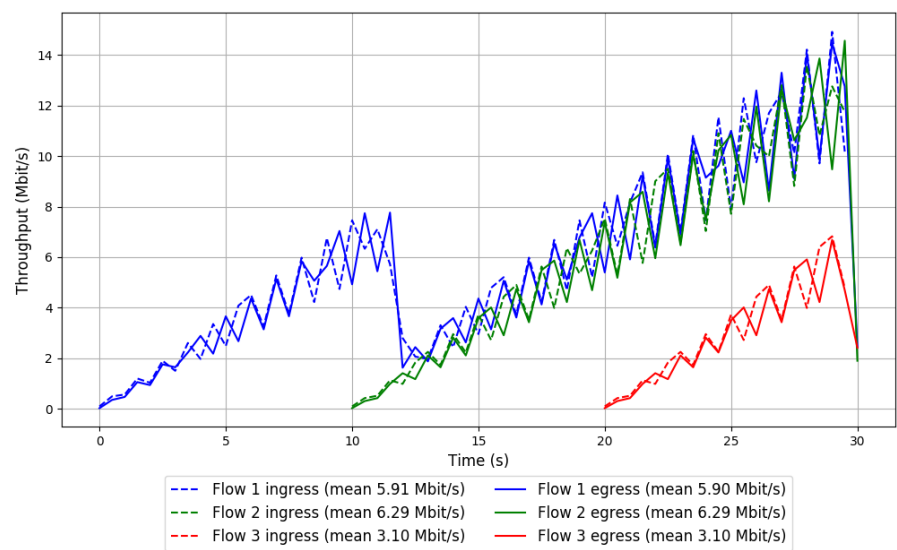
-- Flow 3:

Average throughput: 3.10 Mbit/s

95th percentile per-packet one-way delay: 154.787 ms

Loss rate: 0.00%

Run 10: Report of LEDBAT — Data Link



Run 1: Statistics of PCC-Allegro

Start at: 2018-04-17 16:56:53

End at: 2018-04-17 16:57:23

Local clock offset: 6.379 ms

Remote clock offset: -2.06 ms

Below is generated by plot.py at 2018-04-17 21:08:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 83.46 Mbit/s

95th percentile per-packet one-way delay: 167.253 ms

Loss rate: 2.85%

-- Flow 1:

Average throughput: 72.19 Mbit/s

95th percentile per-packet one-way delay: 167.283 ms

Loss rate: 2.80%

-- Flow 2:

Average throughput: 15.90 Mbit/s

95th percentile per-packet one-way delay: 164.382 ms

Loss rate: 3.03%

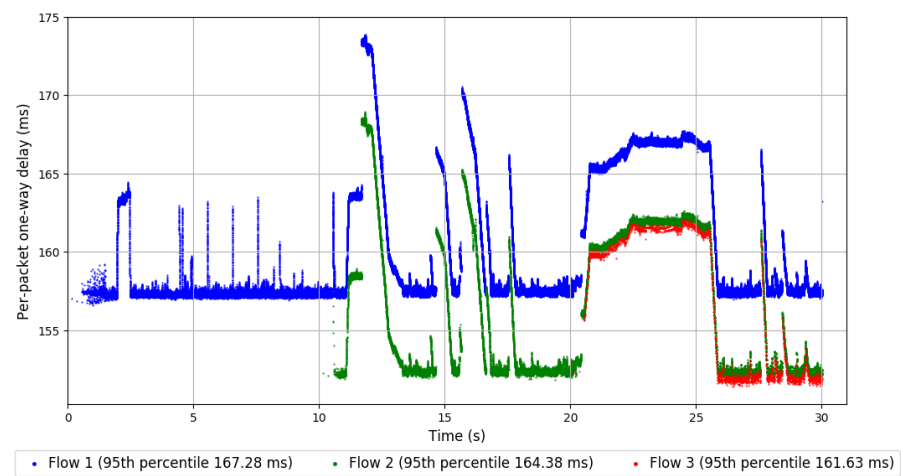
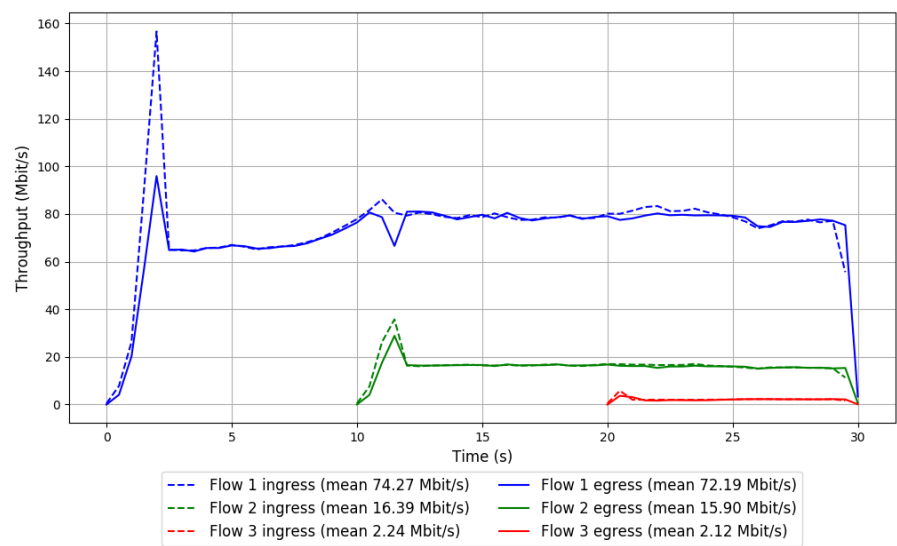
-- Flow 3:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 161.626 ms

Loss rate: 5.35%

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2018-04-17 17:19:49

End at: 2018-04-17 17:20:19

Local clock offset: 5.615 ms

Remote clock offset: 7.012 ms

Below is generated by plot.py at 2018-04-17 21:08:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.66 Mbit/s

95th percentile per-packet one-way delay: 162.091 ms

Loss rate: 2.62%

-- Flow 1:

Average throughput: 77.90 Mbit/s

95th percentile per-packet one-way delay: 161.843 ms

Loss rate: 2.49%

-- Flow 2:

Average throughput: 7.88 Mbit/s

95th percentile per-packet one-way delay: 165.578 ms

Loss rate: 3.16%

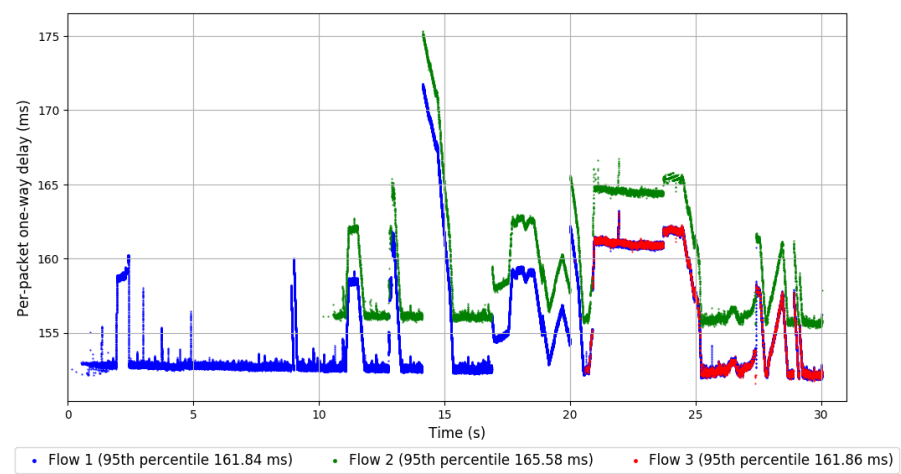
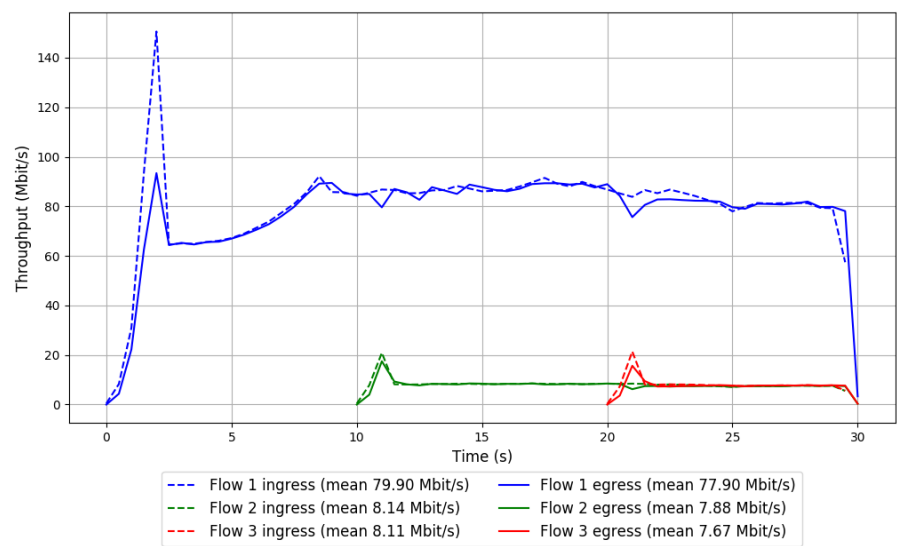
-- Flow 3:

Average throughput: 7.67 Mbit/s

95th percentile per-packet one-way delay: 161.856 ms

Loss rate: 5.43%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2018-04-17 17:42:48

End at: 2018-04-17 17:43:18

Local clock offset: 7.64 ms

Remote clock offset: 8.69 ms

Below is generated by plot.py at 2018-04-17 21:08:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.54 Mbit/s

95th percentile per-packet one-way delay: 163.831 ms

Loss rate: 2.26%

-- Flow 1:

Average throughput: 80.26 Mbit/s

95th percentile per-packet one-way delay: 163.658 ms

Loss rate: 2.26%

-- Flow 2:

Average throughput: 8.35 Mbit/s

95th percentile per-packet one-way delay: 165.747 ms

Loss rate: 2.29%

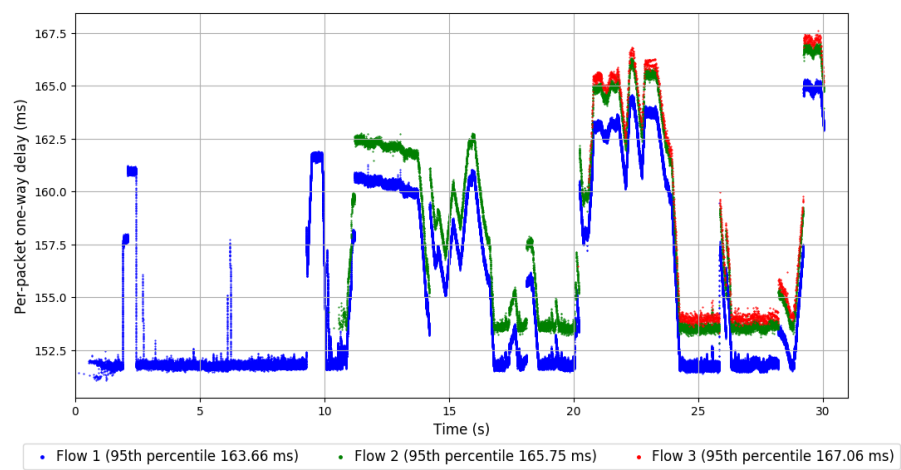
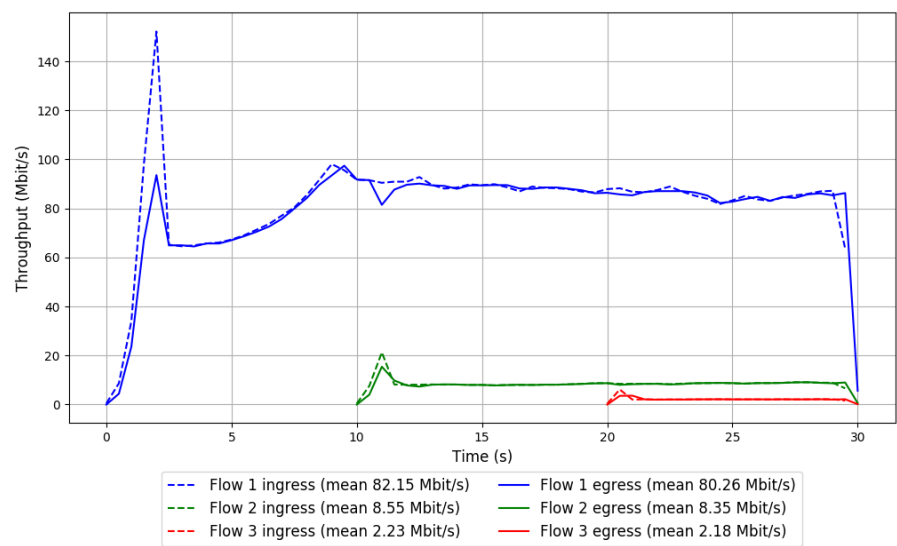
-- Flow 3:

Average throughput: 2.18 Mbit/s

95th percentile per-packet one-way delay: 167.062 ms

Loss rate: 1.97%

Run 3: Report of PCC-Allegro — Data Link

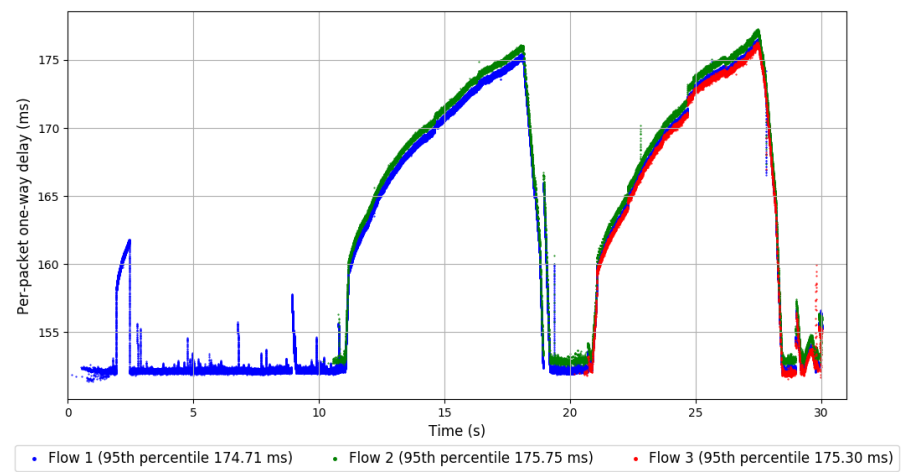
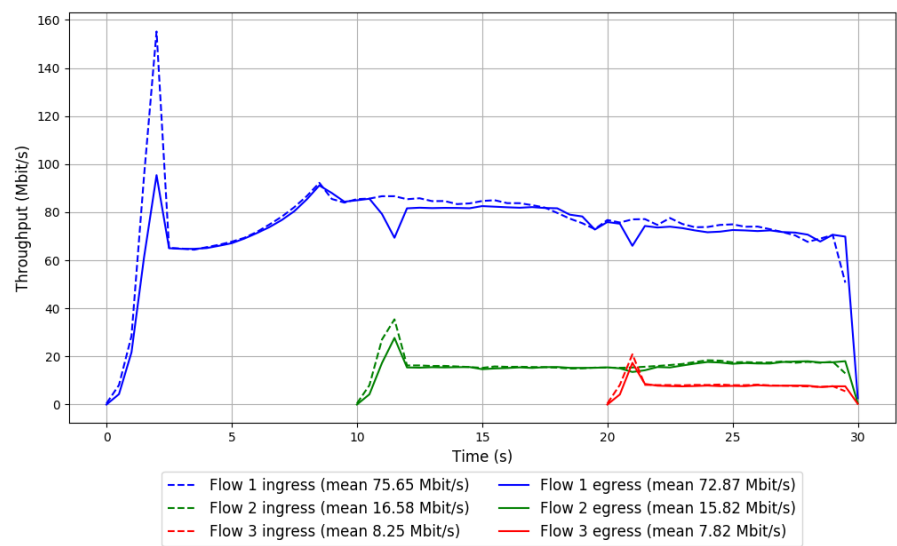


Run 4: Statistics of PCC-Allegro

Start at: 2018-04-17 18:05:43
End at: 2018-04-17 18:06:13
Local clock offset: 5.598 ms
Remote clock offset: -6.806 ms

Below is generated by plot.py at 2018-04-17 21:08:45
Datalink statistics
-- Total of 3 flows:
Average throughput: 85.97 Mbit/s
95th percentile per-packet one-way delay: 174.929 ms
Loss rate: 3.82%
-- Flow 1:
Average throughput: 72.87 Mbit/s
95th percentile per-packet one-way delay: 174.711 ms
Loss rate: 3.66%
-- Flow 2:
Average throughput: 15.82 Mbit/s
95th percentile per-packet one-way delay: 175.751 ms
Loss rate: 4.59%
-- Flow 3:
Average throughput: 7.82 Mbit/s
95th percentile per-packet one-way delay: 175.301 ms
Loss rate: 5.18%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2018-04-17 18:28:23

End at: 2018-04-17 18:28:53

Local clock offset: 3.871 ms

Remote clock offset: 2.265 ms

Below is generated by plot.py at 2018-04-17 21:08:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.18 Mbit/s

95th percentile per-packet one-way delay: 166.849 ms

Loss rate: 2.83%

-- Flow 1:

Average throughput: 78.47 Mbit/s

95th percentile per-packet one-way delay: 166.987 ms

Loss rate: 2.70%

-- Flow 2:

Average throughput: 7.73 Mbit/s

95th percentile per-packet one-way delay: 162.442 ms

Loss rate: 3.84%

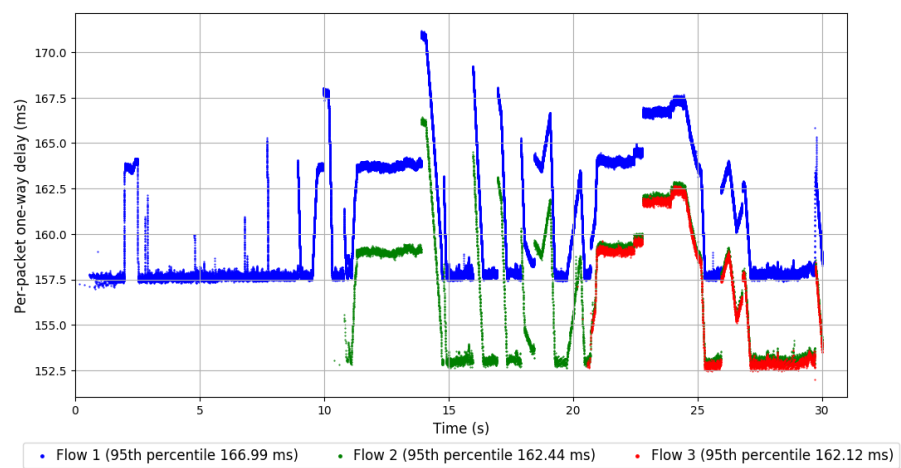
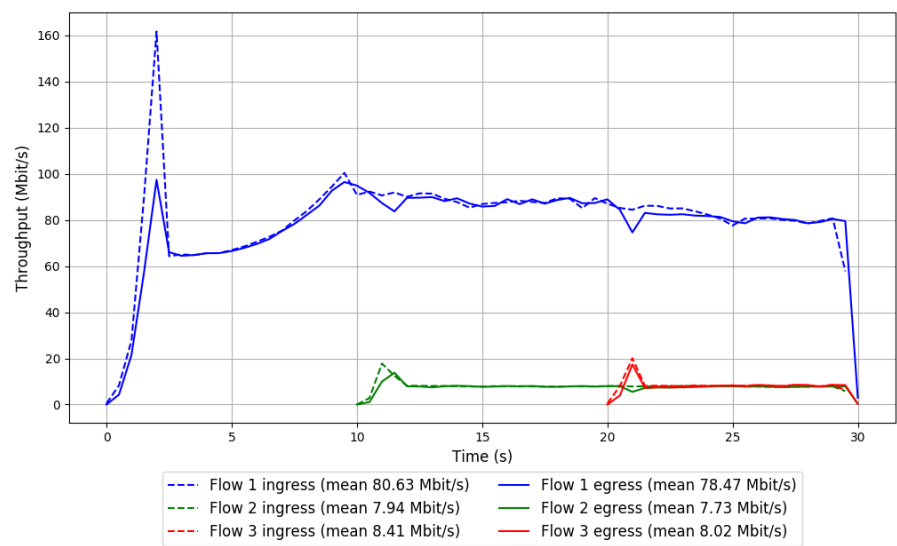
-- Flow 3:

Average throughput: 8.02 Mbit/s

95th percentile per-packet one-way delay: 162.120 ms

Loss rate: 4.72%

Run 5: Report of PCC-Allegro — Data Link



Run 6: Statistics of PCC-Allegro

Start at: 2018-04-17 18:51:24

End at: 2018-04-17 18:51:54

Local clock offset: 5.927 ms

Remote clock offset: 1.857 ms

Below is generated by plot.py at 2018-04-17 21:08:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.97 Mbit/s

95th percentile per-packet one-way delay: 164.029 ms

Loss rate: 2.32%

-- Flow 1:

Average throughput: 79.87 Mbit/s

95th percentile per-packet one-way delay: 163.910 ms

Loss rate: 2.29%

-- Flow 2:

Average throughput: 8.15 Mbit/s

95th percentile per-packet one-way delay: 165.466 ms

Loss rate: 2.65%

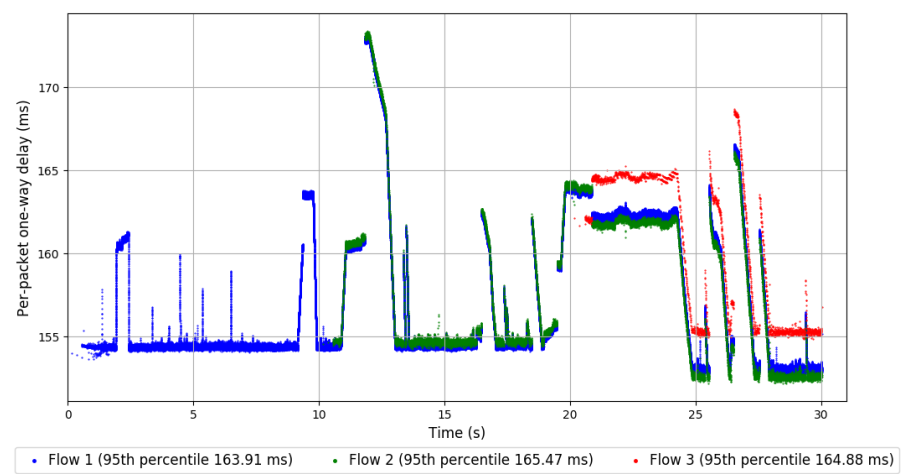
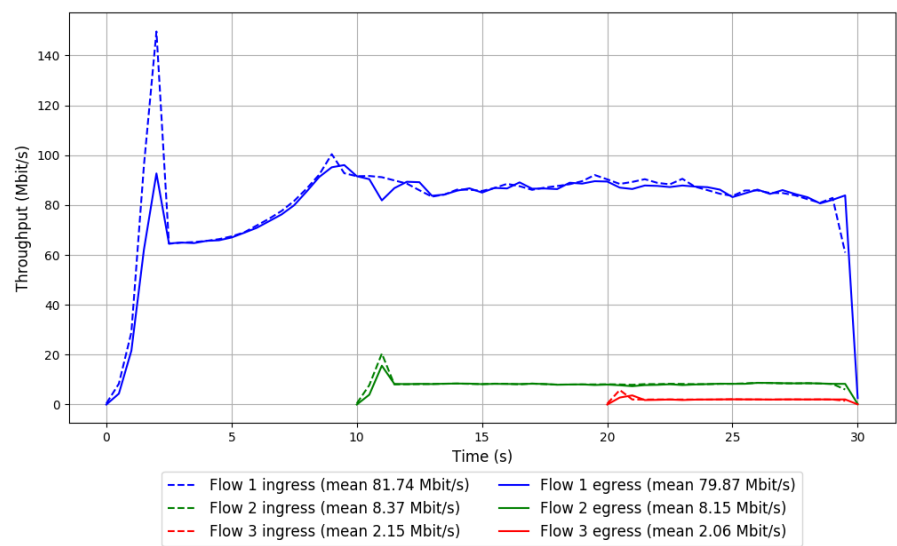
-- Flow 3:

Average throughput: 2.06 Mbit/s

95th percentile per-packet one-way delay: 164.884 ms

Loss rate: 4.01%

Run 6: Report of PCC-Allegro — Data Link

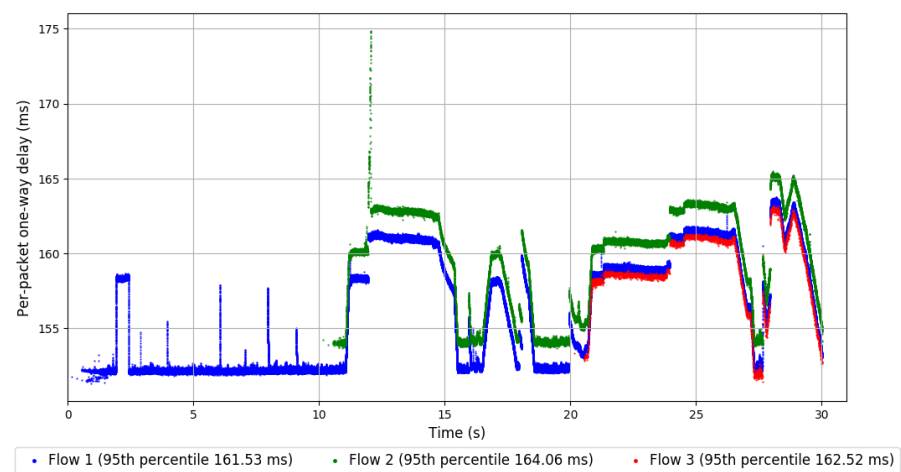
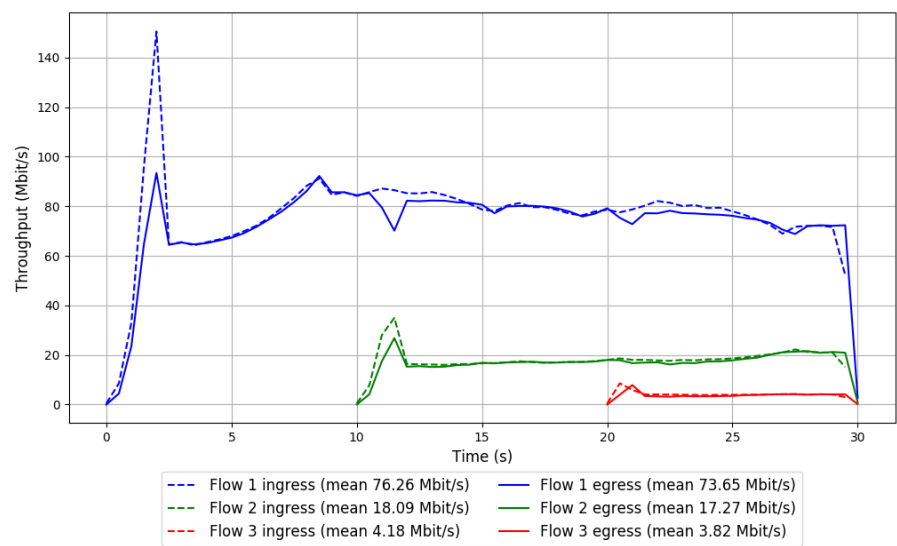


Run 7: Statistics of PCC-Allegro

Start at: 2018-04-17 19:14:30
End at: 2018-04-17 19:15:00
Local clock offset: 9.543 ms
Remote clock offset: -0.599 ms

Below is generated by plot.py at 2018-04-17 21:08:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 86.40 Mbit/s
95th percentile per-packet one-way delay: 162.814 ms
Loss rate: 3.65%
-- Flow 1:
Average throughput: 73.65 Mbit/s
95th percentile per-packet one-way delay: 161.532 ms
Loss rate: 3.42%
-- Flow 2:
Average throughput: 17.27 Mbit/s
95th percentile per-packet one-way delay: 164.058 ms
Loss rate: 4.55%
-- Flow 3:
Average throughput: 3.82 Mbit/s
95th percentile per-packet one-way delay: 162.518 ms
Loss rate: 8.50%

Run 7: Report of PCC-Allegro — Data Link

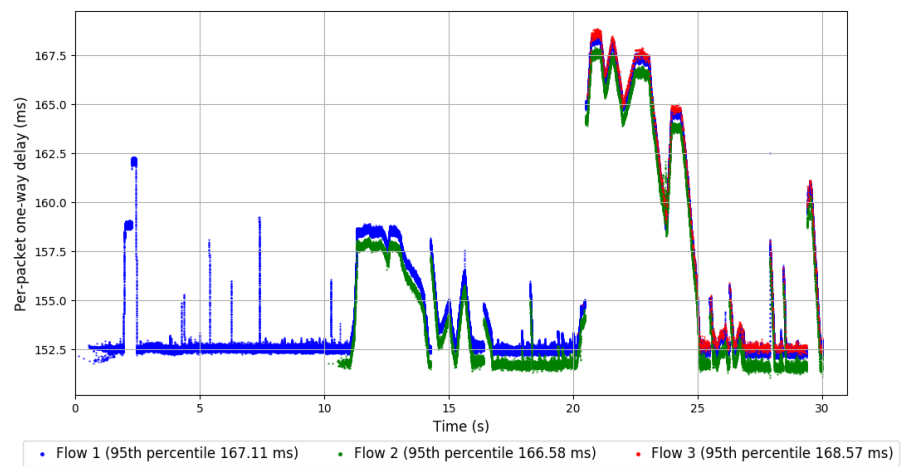
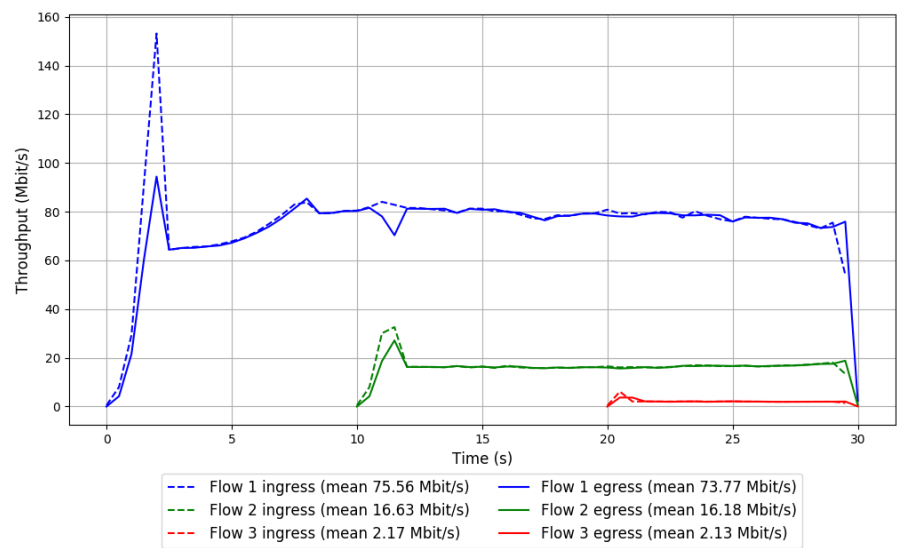


Run 8: Statistics of PCC-Allegro

Start at: 2018-04-17 19:37:24
End at: 2018-04-17 19:37:54
Local clock offset: 12.222 ms
Remote clock offset: -2.026 ms

Below is generated by plot.py at 2018-04-17 21:08:48
Datalink statistics
-- Total of 3 flows:
Average throughput: 85.24 Mbit/s
95th percentile per-packet one-way delay: 167.058 ms
Loss rate: 2.39%
-- Flow 1:
Average throughput: 73.77 Mbit/s
95th percentile per-packet one-way delay: 167.108 ms
Loss rate: 2.36%
-- Flow 2:
Average throughput: 16.18 Mbit/s
95th percentile per-packet one-way delay: 166.579 ms
Loss rate: 2.67%
-- Flow 3:
Average throughput: 2.13 Mbit/s
95th percentile per-packet one-way delay: 168.569 ms
Loss rate: 1.90%

Run 8: Report of PCC-Allegro — Data Link

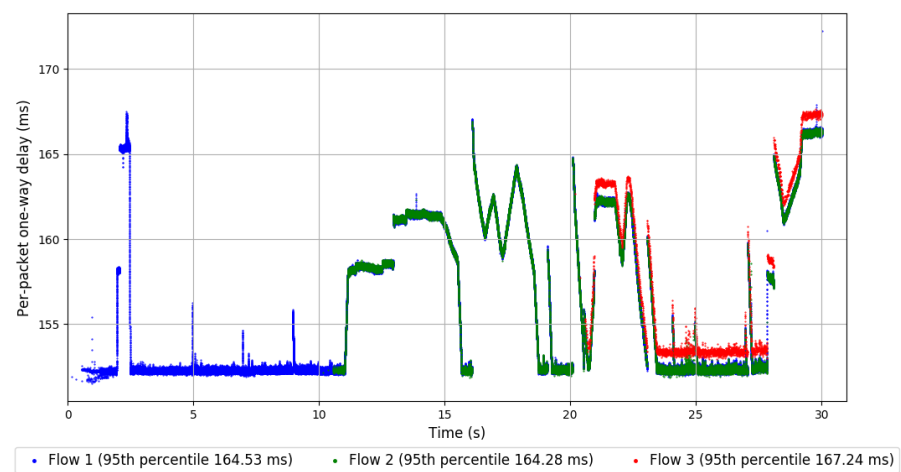
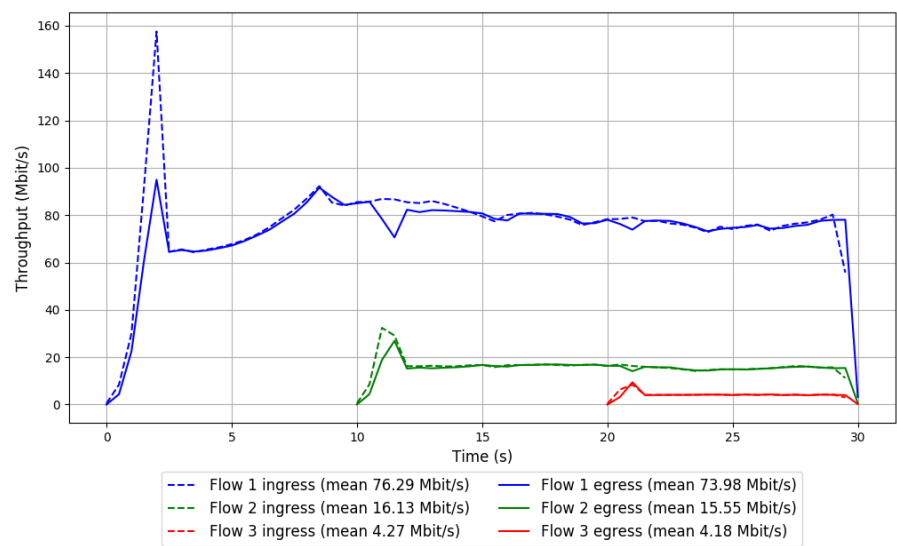


Run 9: Statistics of PCC-Allegro

Start at: 2018-04-17 20:00:21
End at: 2018-04-17 20:00:51
Local clock offset: 3.268 ms
Remote clock offset: -1.766 ms

Below is generated by plot.py at 2018-04-17 21:10:14
Datalink statistics
-- Total of 3 flows:
Average throughput: 85.69 Mbit/s
95th percentile per-packet one-way delay: 164.618 ms
Loss rate: 3.02%
-- Flow 1:
Average throughput: 73.98 Mbit/s
95th percentile per-packet one-way delay: 164.526 ms
Loss rate: 2.96%
-- Flow 2:
Average throughput: 15.55 Mbit/s
95th percentile per-packet one-way delay: 164.280 ms
Loss rate: 3.53%
-- Flow 3:
Average throughput: 4.18 Mbit/s
95th percentile per-packet one-way delay: 167.242 ms
Loss rate: 2.01%

Run 9: Report of PCC-Allegro — Data Link

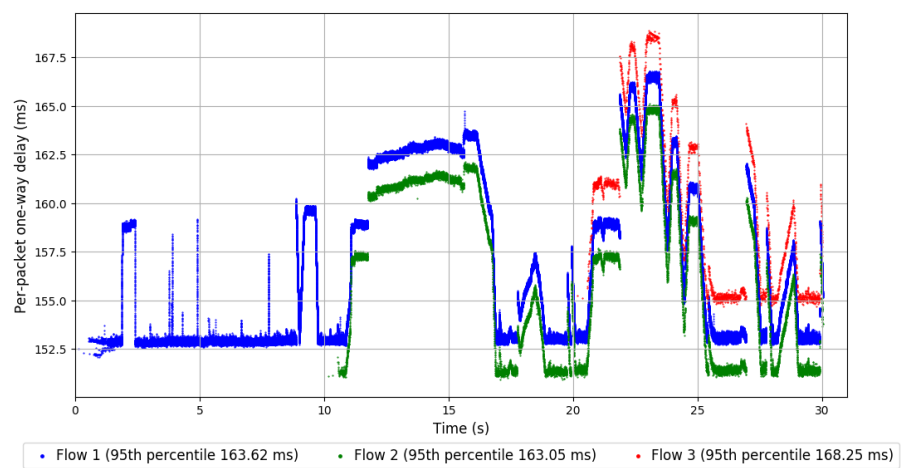
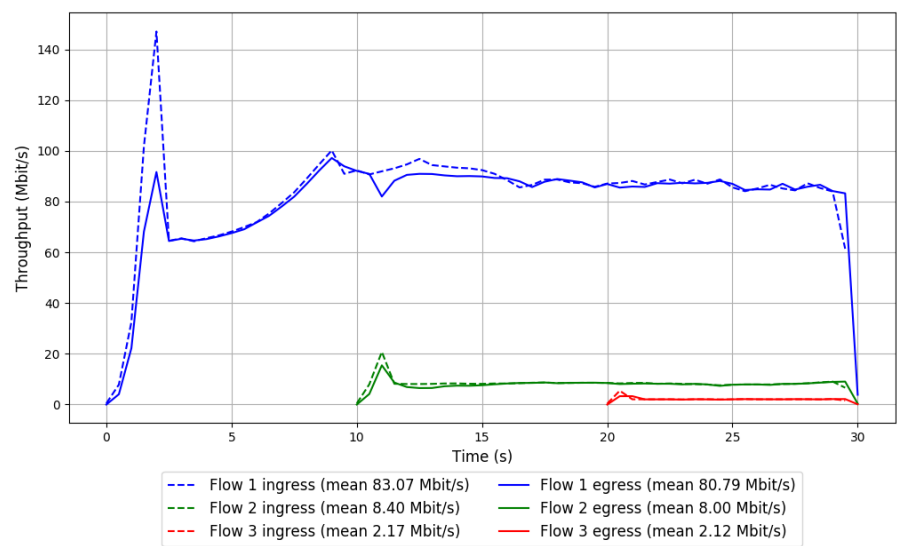


Run 10: Statistics of PCC-Allegro

Start at: 2018-04-17 20:23:10
End at: 2018-04-17 20:23:40
Local clock offset: 4.626 ms
Remote clock offset: -1.212 ms

Below is generated by plot.py at 2018-04-17 21:10:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 86.82 Mbit/s
95th percentile per-packet one-way delay: 163.648 ms
Loss rate: 2.85%
-- Flow 1:
Average throughput: 80.79 Mbit/s
95th percentile per-packet one-way delay: 163.622 ms
Loss rate: 2.73%
-- Flow 2:
Average throughput: 8.00 Mbit/s
95th percentile per-packet one-way delay: 163.053 ms
Loss rate: 4.75%
-- Flow 3:
Average throughput: 2.12 Mbit/s
95th percentile per-packet one-way delay: 168.252 ms
Loss rate: 2.23%

Run 10: Report of PCC-Allegro — Data Link

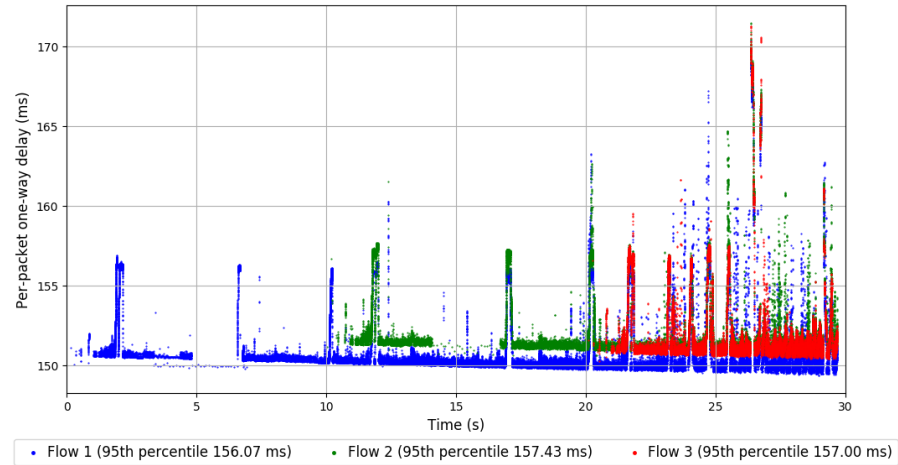
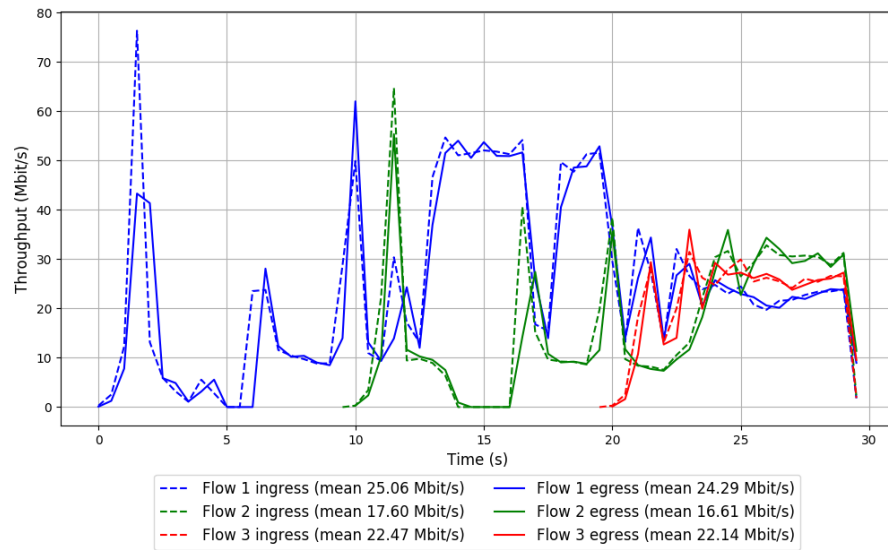


Run 1: Statistics of QUIC Cubic

Start at: 2018-04-17 17:15:50
End at: 2018-04-17 17:16:20
Local clock offset: 5.419 ms
Remote clock offset: -1.868 ms

Below is generated by plot.py at 2018-04-17 21:10:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 42.53 Mbit/s
95th percentile per-packet one-way delay: 156.799 ms
Loss rate: 3.49%
-- Flow 1:
Average throughput: 24.29 Mbit/s
95th percentile per-packet one-way delay: 156.069 ms
Loss rate: 3.08%
-- Flow 2:
Average throughput: 16.61 Mbit/s
95th percentile per-packet one-way delay: 157.428 ms
Loss rate: 5.61%
-- Flow 3:
Average throughput: 22.14 Mbit/s
95th percentile per-packet one-way delay: 157.001 ms
Loss rate: 1.50%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-04-17 17:38:48

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

Local clock offset: 7.505 ms

Remote clock offset: 6.762 ms

Below is generated by plot.py at 2018-04-17 21:10:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 54.34 Mbit/s

95th percentile per-packet one-way delay: 157.309 ms

Loss rate: 0.49%

-- Flow 1:

Average throughput: 32.89 Mbit/s

95th percentile per-packet one-way delay: 157.549 ms

Loss rate: 0.69%

-- Flow 2:

Average throughput: 30.23 Mbit/s

95th percentile per-packet one-way delay: 156.864 ms

Loss rate: 0.20%

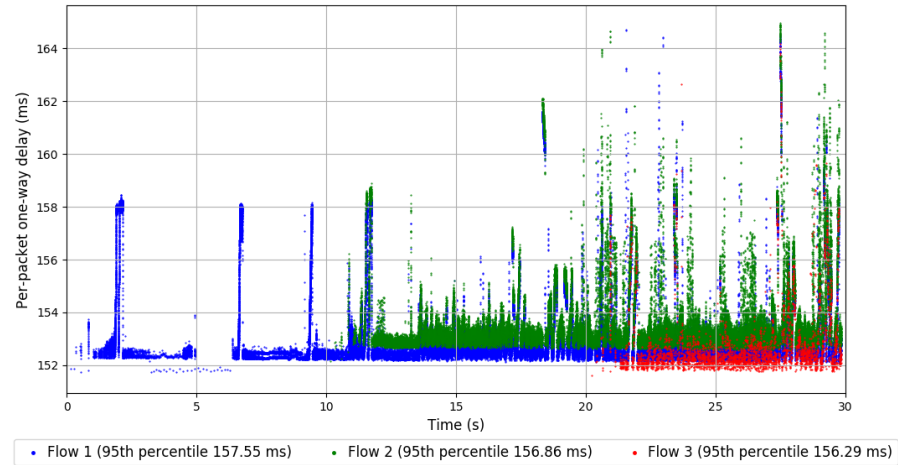
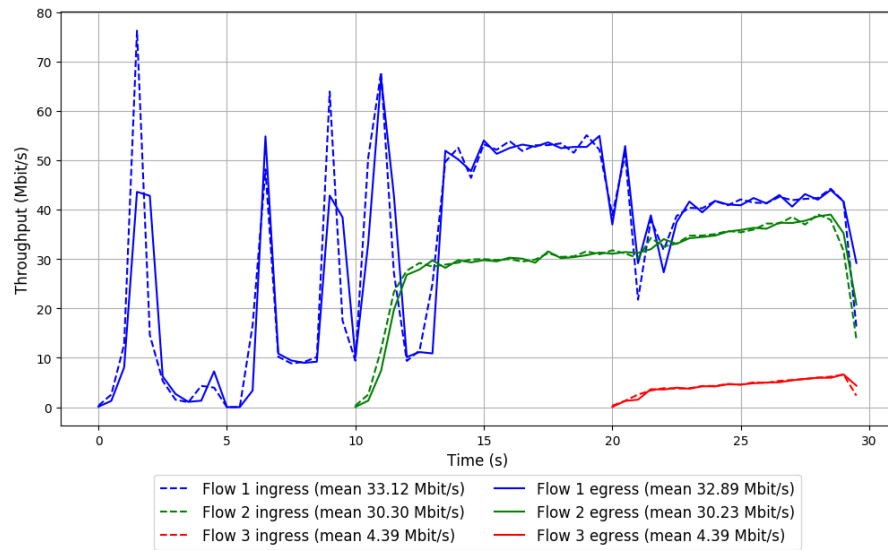
-- Flow 3:

Average throughput: 4.39 Mbit/s

95th percentile per-packet one-way delay: 156.294 ms

Loss rate: 0.08%

Run 2: Report of QUIC Cubic — Data Link

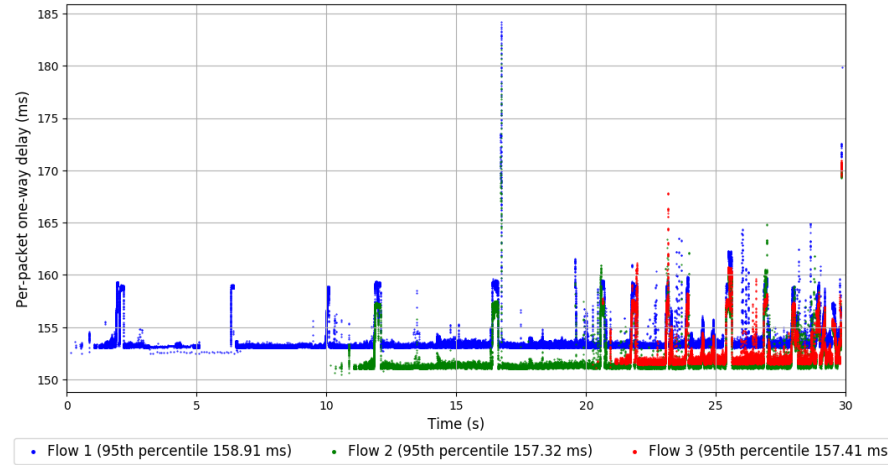
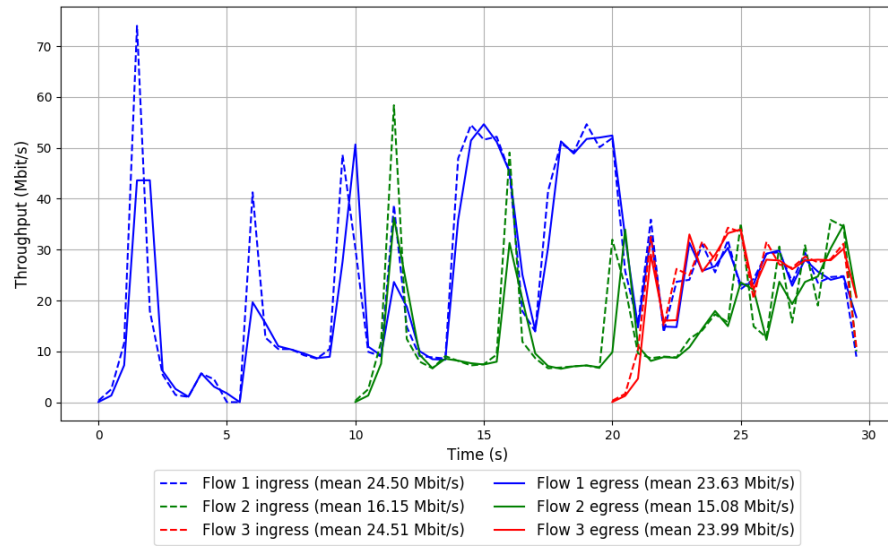


Run 3: Statistics of QUIC Cubic

Start at: 2018-04-17 18:01:44
End at: 2018-04-17 18:02:14
Local clock offset: 6.197 ms
Remote clock offset: -6.544 ms

Below is generated by plot.py at 2018-04-17 21:10:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 41.38 Mbit/s
95th percentile per-packet one-way delay: 158.783 ms
Loss rate: 3.96%
-- Flow 1:
Average throughput: 23.63 Mbit/s
95th percentile per-packet one-way delay: 158.908 ms
Loss rate: 3.50%
-- Flow 2:
Average throughput: 15.08 Mbit/s
95th percentile per-packet one-way delay: 157.323 ms
Loss rate: 6.53%
-- Flow 3:
Average throughput: 23.99 Mbit/s
95th percentile per-packet one-way delay: 157.406 ms
Loss rate: 1.94%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

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

End at: 2018-04-17 18:24:54

Local clock offset: 4.077 ms

Remote clock offset: 3.011 ms

Below is generated by plot.py at 2018-04-17 21:10:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 50.83 Mbit/s

95th percentile per-packet one-way delay: 162.654 ms

Loss rate: 1.56%

-- Flow 1:

Average throughput: 27.16 Mbit/s

95th percentile per-packet one-way delay: 163.015 ms

Loss rate: 2.50%

-- Flow 2:

Average throughput: 28.13 Mbit/s

95th percentile per-packet one-way delay: 158.264 ms

Loss rate: 0.46%

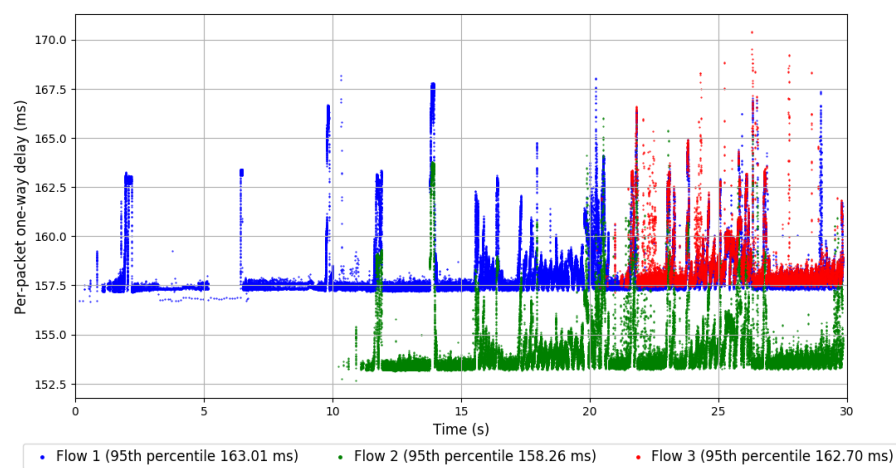
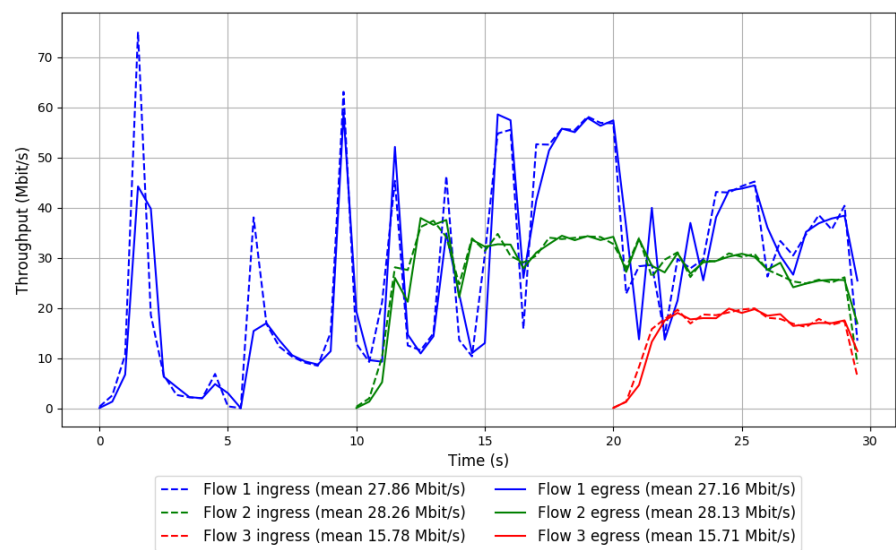
-- Flow 3:

Average throughput: 15.71 Mbit/s

95th percentile per-packet one-way delay: 162.696 ms

Loss rate: 0.47%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-04-17 18:47:25

End at: 2018-04-17 18:47:55

Local clock offset: 6.026 ms

Remote clock offset: 1.598 ms

Below is generated by plot.py at 2018-04-17 21:10:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 47.86 Mbit/s

95th percentile per-packet one-way delay: 156.988 ms

Loss rate: 1.78%

-- Flow 1:

Average throughput: 27.97 Mbit/s

95th percentile per-packet one-way delay: 157.154 ms

Loss rate: 2.55%

-- Flow 2:

Average throughput: 28.12 Mbit/s

95th percentile per-packet one-way delay: 156.037 ms

Loss rate: 0.70%

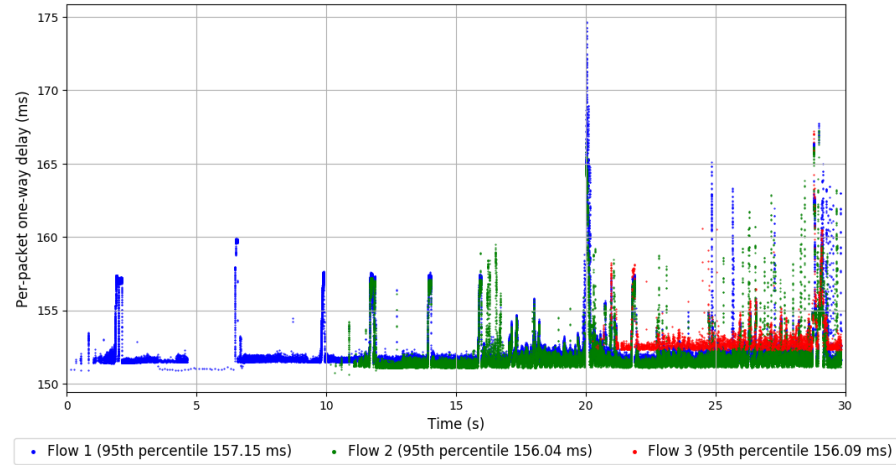
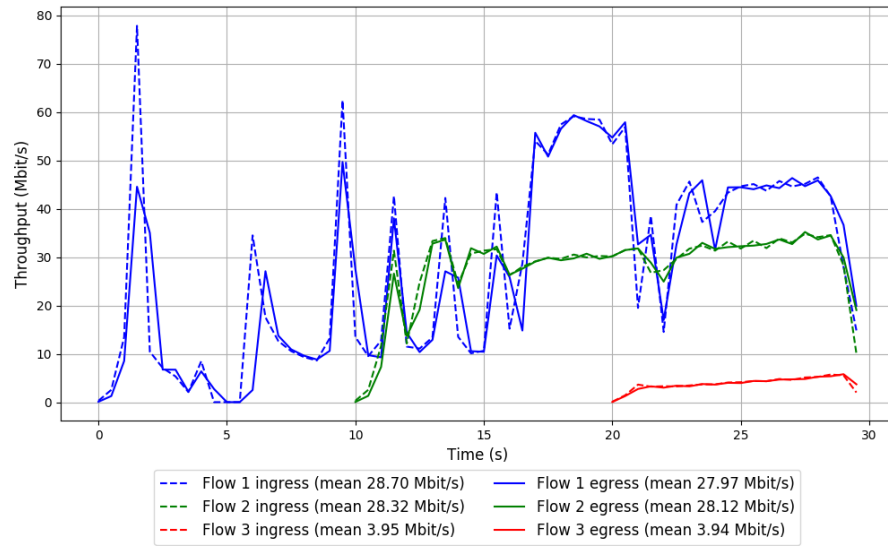
-- Flow 3:

Average throughput: 3.94 Mbit/s

95th percentile per-packet one-way delay: 156.088 ms

Loss rate: 0.36%

Run 5: Report of QUIC Cubic — Data Link

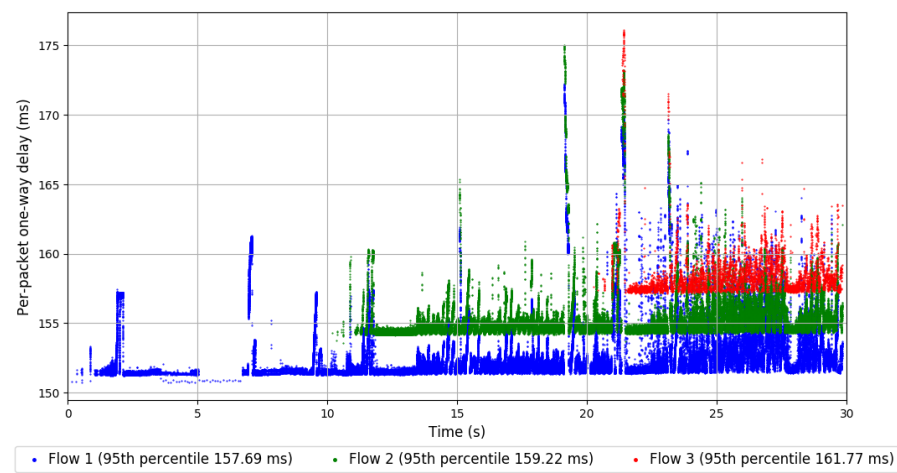
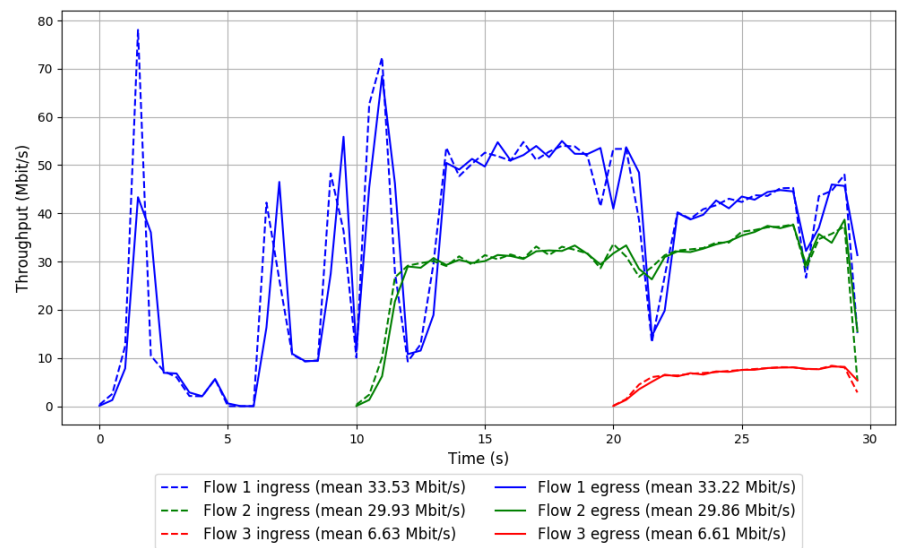


Run 6: Statistics of QUIC Cubic

Start at: 2018-04-17 19:10:30
End at: 2018-04-17 19:11:00
Local clock offset: 8.402 ms
Remote clock offset: -0.472 ms

Below is generated by plot.py at 2018-04-17 21:10:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 55.10 Mbit/s
95th percentile per-packet one-way delay: 159.180 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 33.22 Mbit/s
95th percentile per-packet one-way delay: 157.687 ms
Loss rate: 0.91%
-- Flow 2:
Average throughput: 29.86 Mbit/s
95th percentile per-packet one-way delay: 159.216 ms
Loss rate: 0.22%
-- Flow 3:
Average throughput: 6.61 Mbit/s
95th percentile per-packet one-way delay: 161.767 ms
Loss rate: 0.16%

Run 6: Report of QUIC Cubic — Data Link

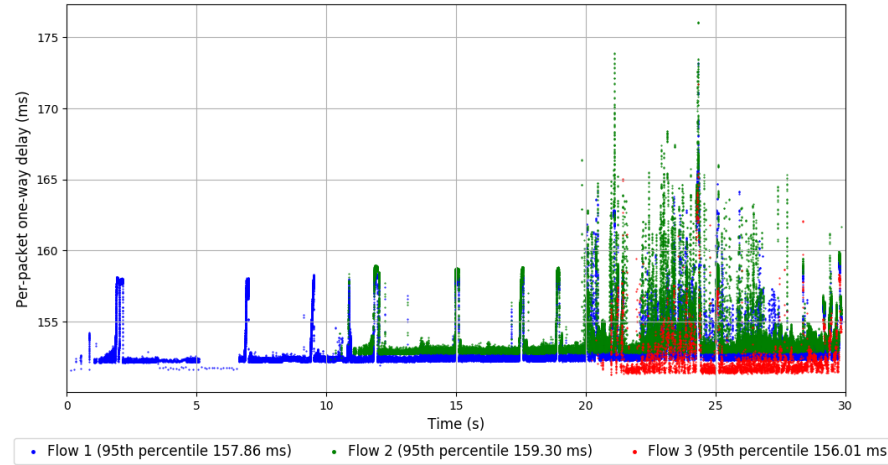
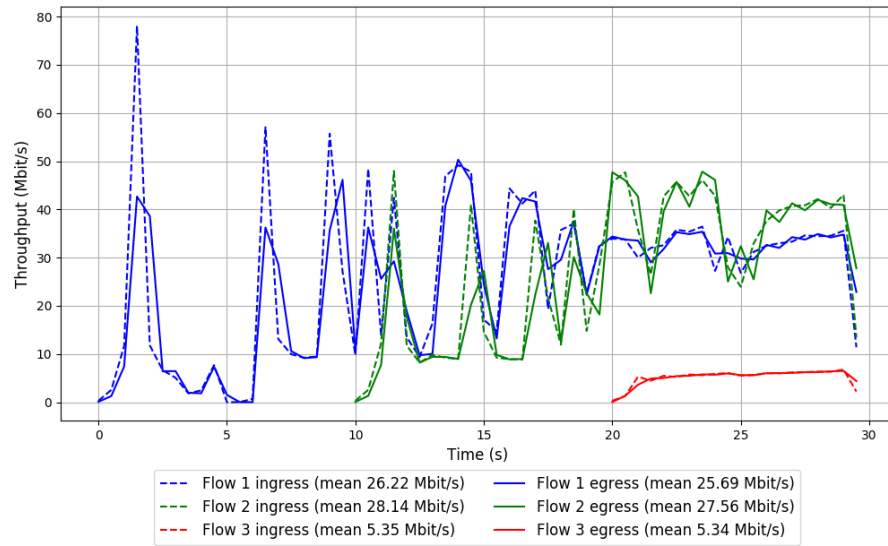


Run 7: Statistics of QUIC Cubic

Start at: 2018-04-17 19:33:24
End at: 2018-04-17 19:33:54
Local clock offset: 11.989 ms
Remote clock offset: -1.299 ms

Below is generated by plot.py at 2018-04-17 21:10:33
Datalink statistics
-- Total of 3 flows:
Average throughput: 45.68 Mbit/s
95th percentile per-packet one-way delay: 158.455 ms
Loss rate: 1.92%
-- Flow 1:
Average throughput: 25.69 Mbit/s
95th percentile per-packet one-way delay: 157.863 ms
Loss rate: 1.98%
-- Flow 2:
Average throughput: 27.56 Mbit/s
95th percentile per-packet one-way delay: 159.300 ms
Loss rate: 2.00%
-- Flow 3:
Average throughput: 5.34 Mbit/s
95th percentile per-packet one-way delay: 156.010 ms
Loss rate: 0.15%

Run 7: Report of QUIC Cubic — Data Link

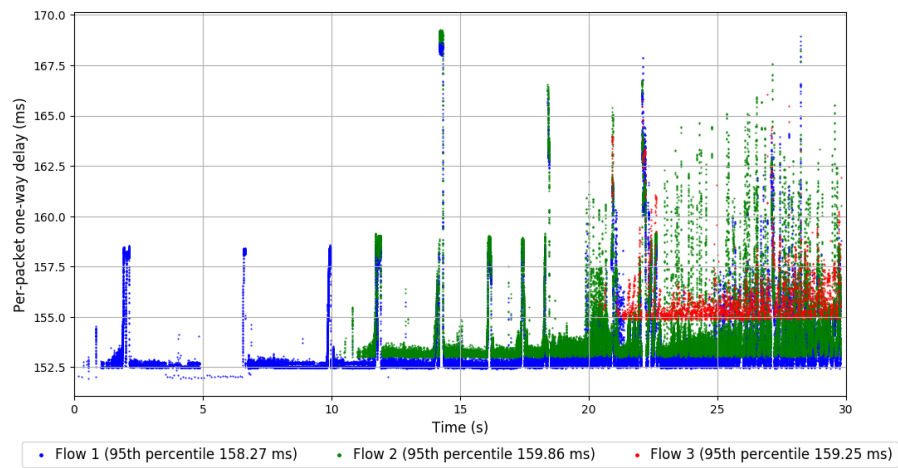
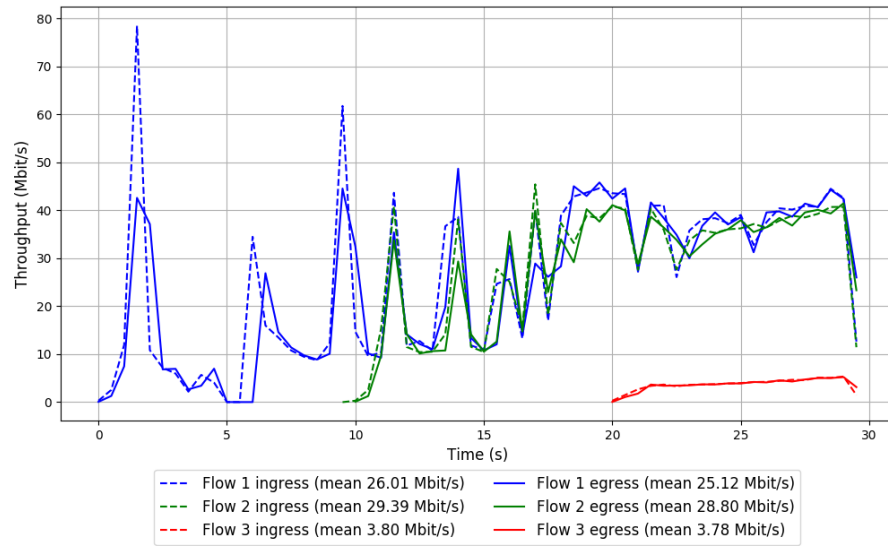


Run 8: Statistics of QUIC Cubic

Start at: 2018-04-17 19:56:21
End at: 2018-04-17 19:56:51
Local clock offset: 3.725 ms
Remote clock offset: -1.606 ms

Below is generated by plot.py at 2018-04-17 21:10:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 45.45 Mbit/s
95th percentile per-packet one-way delay: 158.809 ms
Loss rate: 2.72%
-- Flow 1:
Average throughput: 25.12 Mbit/s
95th percentile per-packet one-way delay: 158.266 ms
Loss rate: 3.39%
-- Flow 2:
Average throughput: 28.80 Mbit/s
95th percentile per-packet one-way delay: 159.862 ms
Loss rate: 1.97%
-- Flow 3:
Average throughput: 3.78 Mbit/s
95th percentile per-packet one-way delay: 159.252 ms
Loss rate: 0.47%

Run 8: Report of QUIC Cubic — Data Link

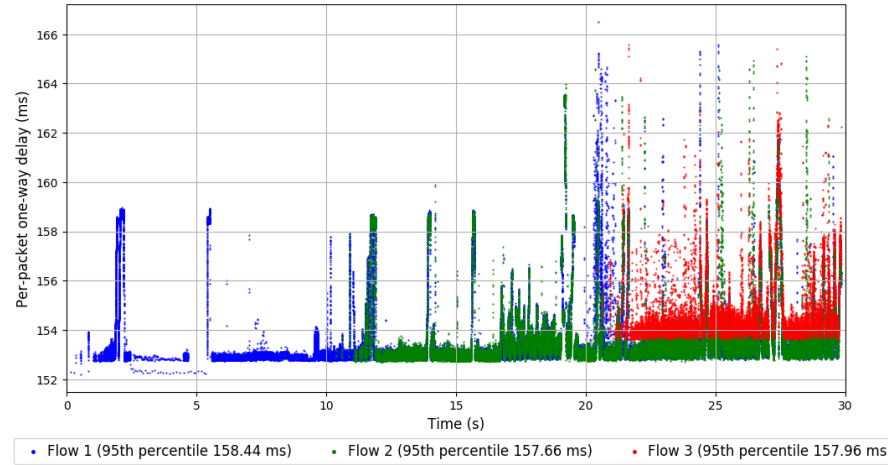
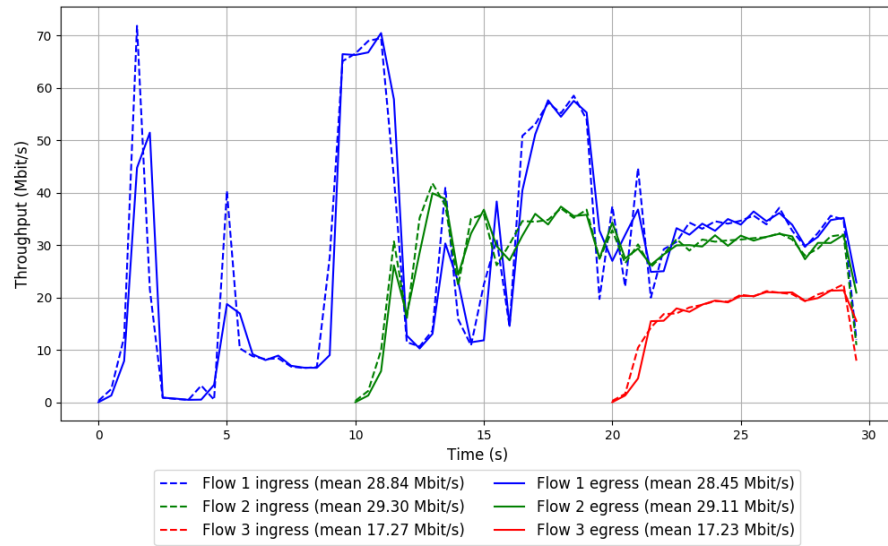


Run 9: Statistics of QUIC Cubic

Start at: 2018-04-17 20:19:11
End at: 2018-04-17 20:19:41
Local clock offset: 3.812 ms
Remote clock offset: -1.242 ms

Below is generated by plot.py at 2018-04-17 21:10:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 53.26 Mbit/s
95th percentile per-packet one-way delay: 158.330 ms
Loss rate: 0.96%
-- Flow 1:
Average throughput: 28.45 Mbit/s
95th percentile per-packet one-way delay: 158.443 ms
Loss rate: 1.32%
-- Flow 2:
Average throughput: 29.11 Mbit/s
95th percentile per-packet one-way delay: 157.655 ms
Loss rate: 0.64%
-- Flow 3:
Average throughput: 17.23 Mbit/s
95th percentile per-packet one-way delay: 157.956 ms
Loss rate: 0.16%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-04-17 20:42:24

End at: 2018-04-17 20:42:54

Local clock offset: 5.425 ms

Remote clock offset: -0.13 ms

Below is generated by plot.py at 2018-04-17 21:10:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 42.19 Mbit/s

95th percentile per-packet one-way delay: 161.772 ms

Loss rate: 4.51%

-- Flow 1:

Average throughput: 23.42 Mbit/s

95th percentile per-packet one-way delay: 157.241 ms

Loss rate: 4.50%

-- Flow 2:

Average throughput: 17.84 Mbit/s

95th percentile per-packet one-way delay: 163.251 ms

Loss rate: 5.33%

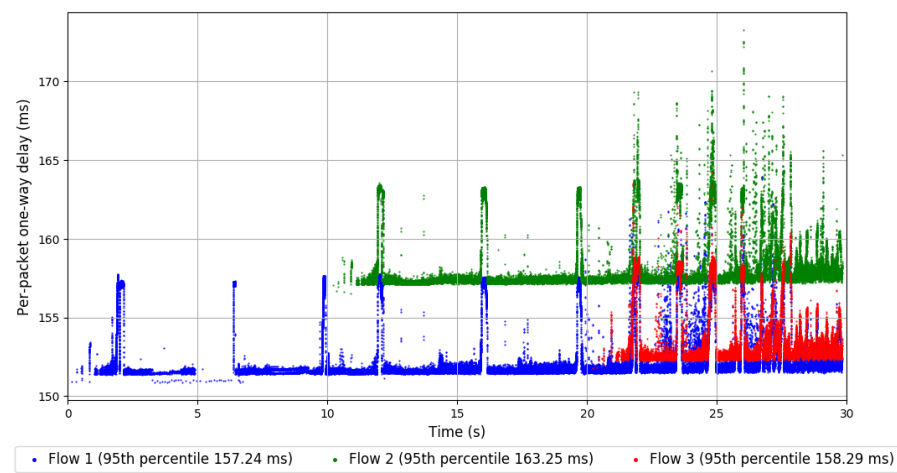
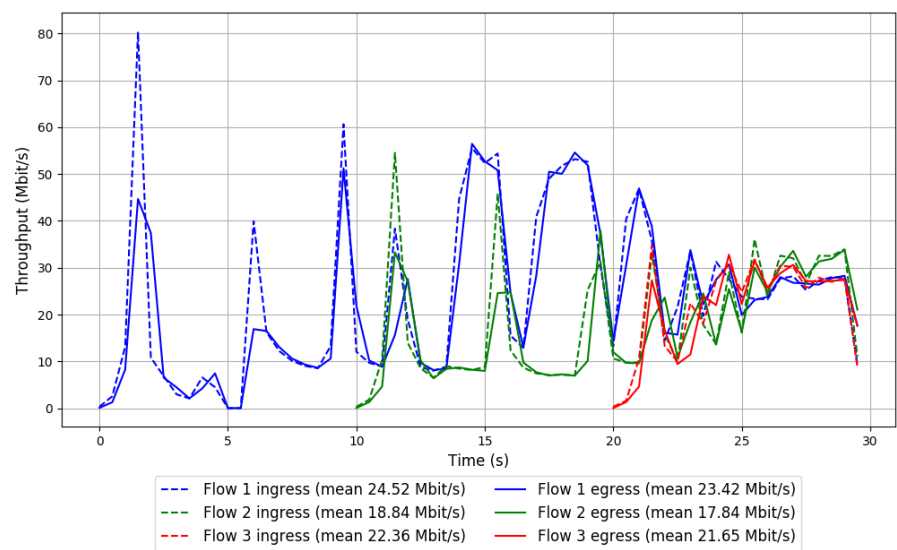
-- Flow 3:

Average throughput: 21.65 Mbit/s

95th percentile per-packet one-way delay: 158.287 ms

Loss rate: 3.15%

Run 10: Report of QUIC Cubic — Data Link

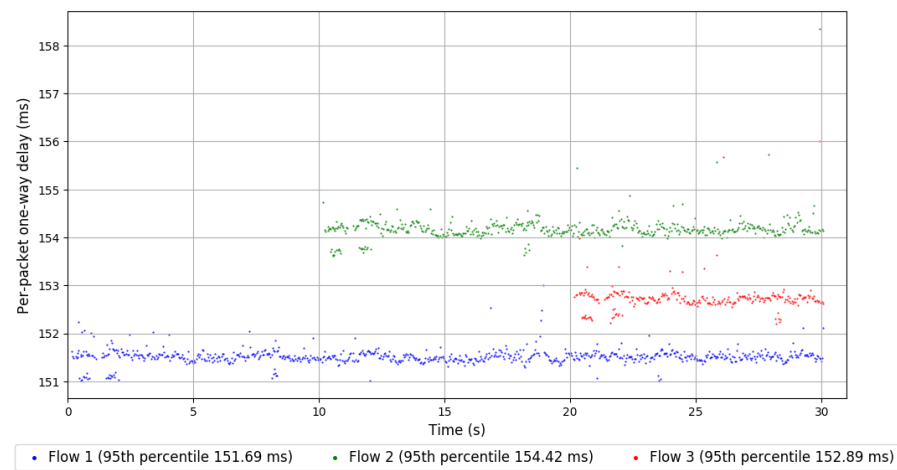
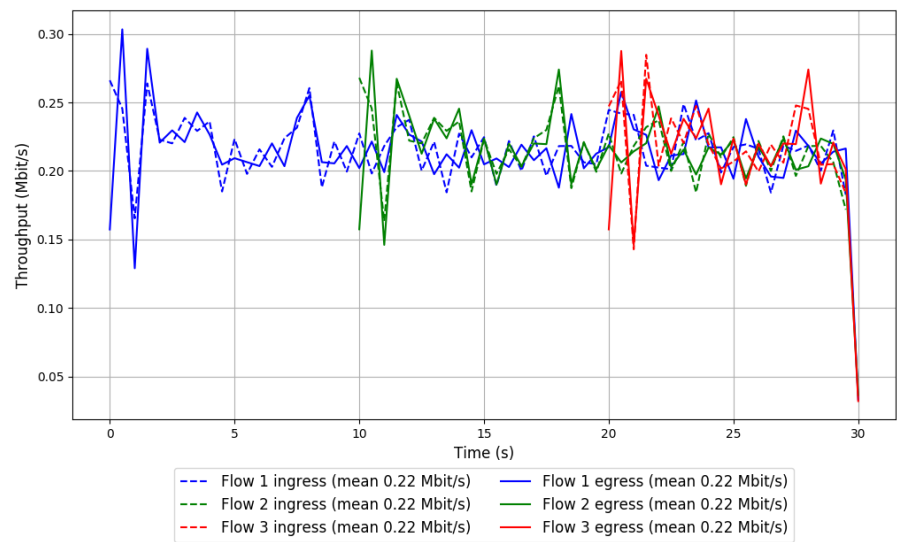


```
Run 1: Statistics of SReAM

Start at: 2018-04-17 16:59:32
End at: 2018-04-17 17:00:02
Local clock offset: 6.003 ms
Remote clock offset: -2.43 ms

# Below is generated by plot.py at 2018-04-17 21:10:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 154.305 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 151.688 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 154.420 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 152.894 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SReAM

Start at: 2018-04-17 17:22:27

End at: 2018-04-17 17:22:57

Local clock offset: 5.842 ms

Remote clock offset: 11.21 ms

Below is generated by plot.py at 2018-04-17 21:10:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 153.026 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 152.238 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 153.138 ms

Loss rate: 0.00%

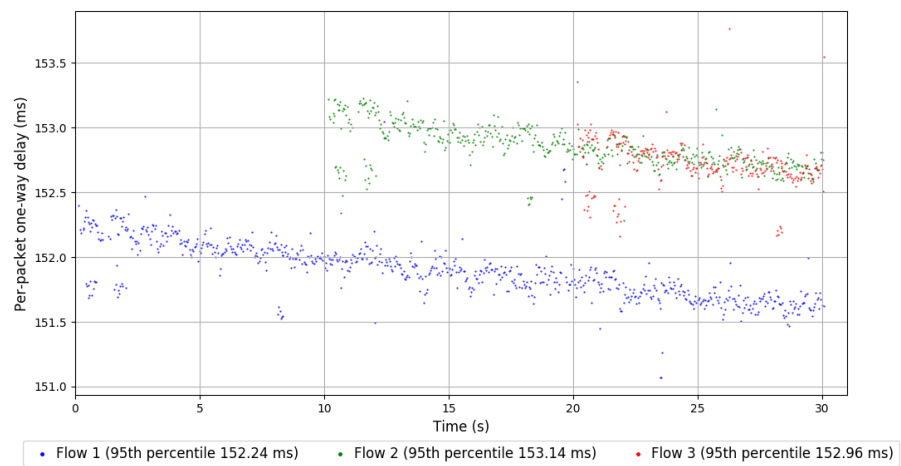
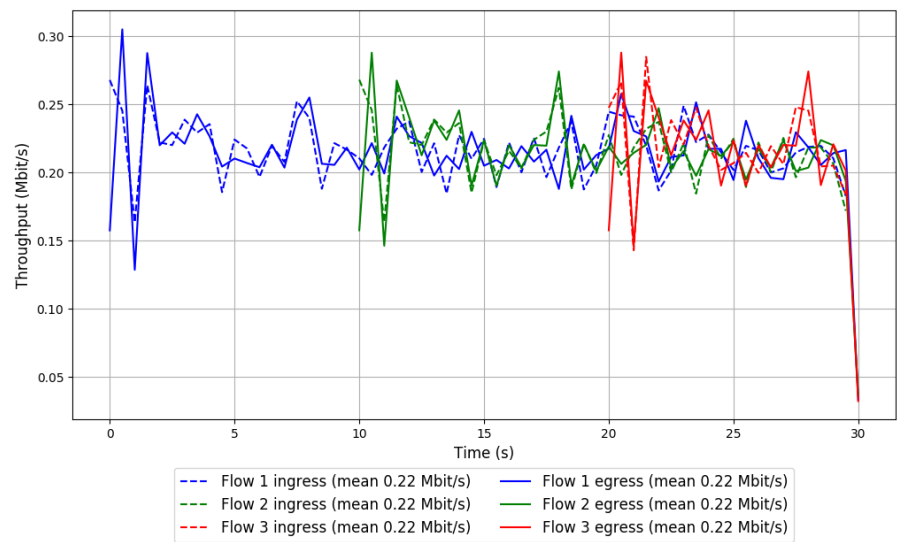
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 152.960 ms

Loss rate: 0.00%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SReAM

Start at: 2018-04-17 17:45:26

End at: 2018-04-17 17:45:56

Local clock offset: 7.714 ms

Remote clock offset: 9.8 ms

Below is generated by plot.py at 2018-04-17 21:10:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 153.238 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 152.567 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 153.296 ms

Loss rate: 0.00%

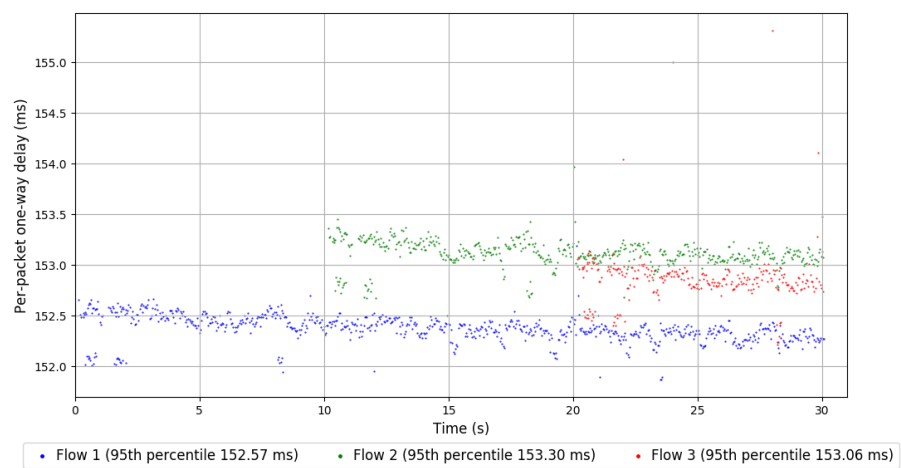
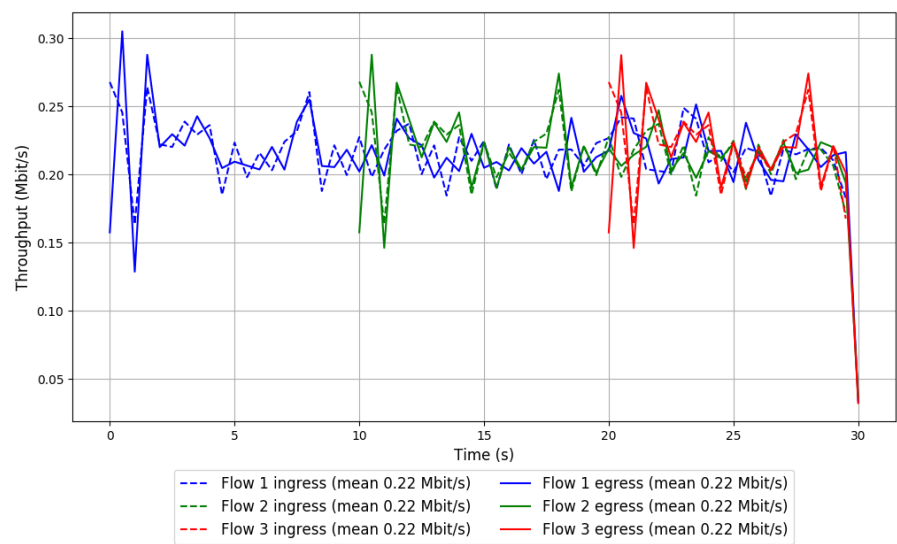
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 153.060 ms

Loss rate: 0.00%

Run 3: Report of SCRaM — Data Link

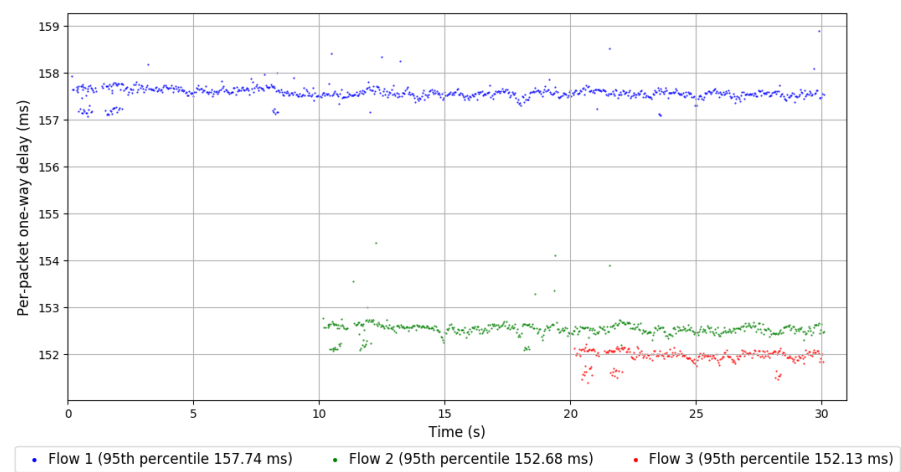
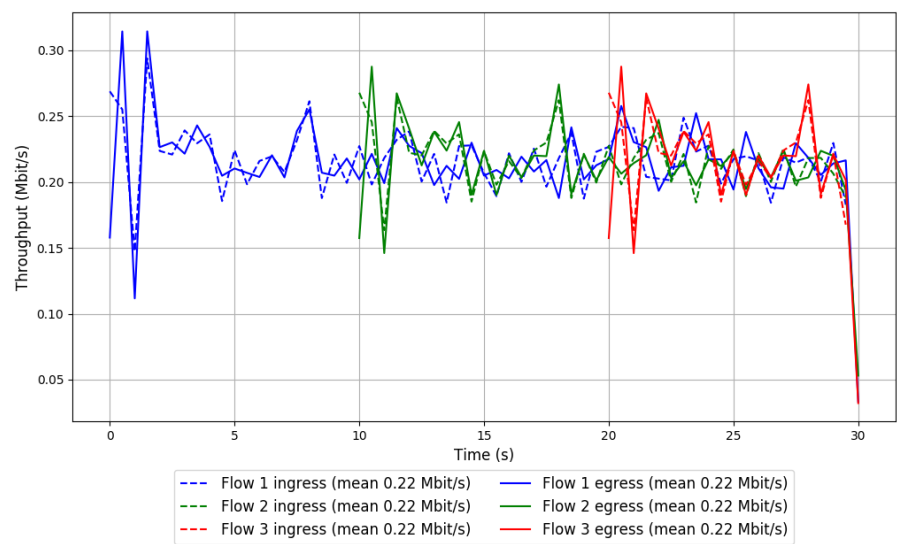


Run 4: Statistics of SCReAM

Start at: 2018-04-17 18:08:21
End at: 2018-04-17 18:08:51
Local clock offset: 5.074 ms
Remote clock offset: -6.858 ms

Below is generated by plot.py at 2018-04-17 21:10:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 157.701 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 157.737 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 152.683 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 152.126 ms
Loss rate: 0.00%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SReAM

Start at: 2018-04-17 18:31:01

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

Local clock offset: 4.369 ms

Remote clock offset: 1.938 ms

Below is generated by plot.py at 2018-04-17 21:10:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 152.582 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 152.427 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 152.630 ms

Loss rate: 0.00%

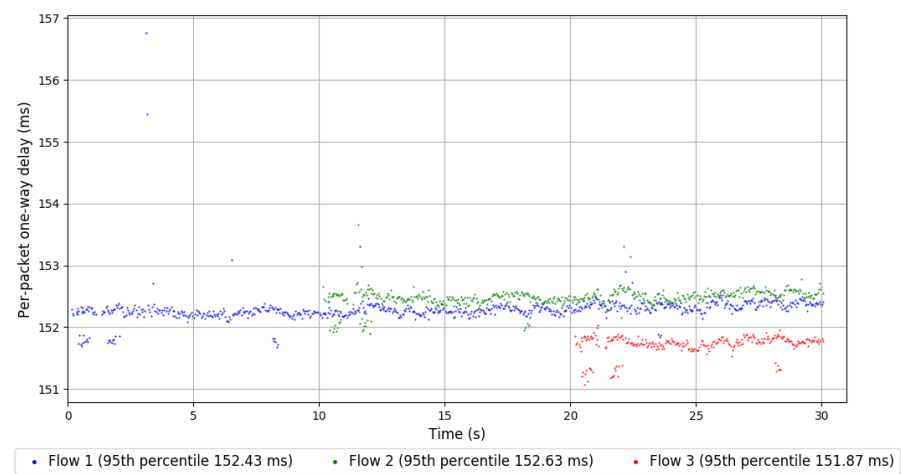
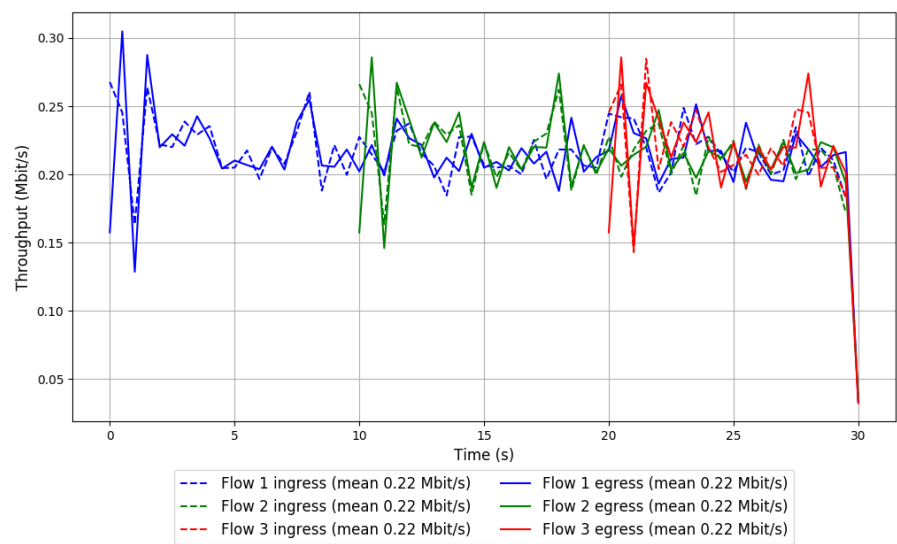
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 151.867 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SReAM

Start at: 2018-04-17 18:54:07

End at: 2018-04-17 18:54:37

Local clock offset: 5.958 ms

Remote clock offset: 1.912 ms

Below is generated by plot.py at 2018-04-17 21:10:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 145.130 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 145.140 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 144.924 ms

Loss rate: 0.00%

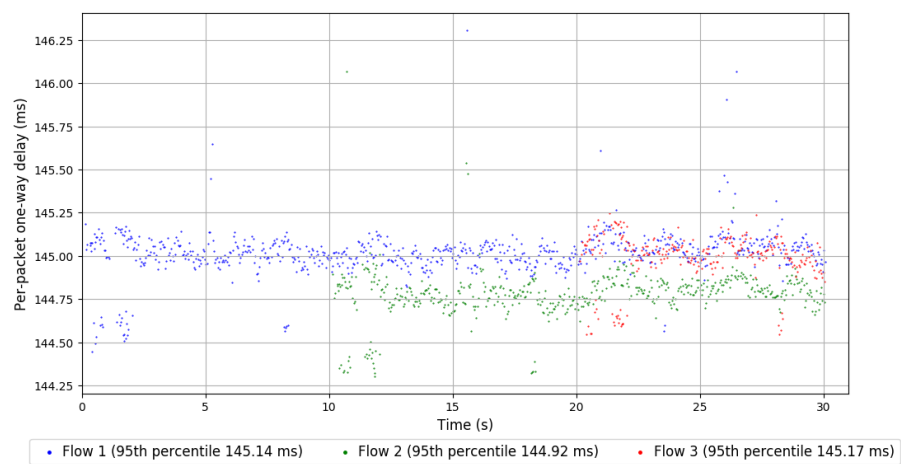
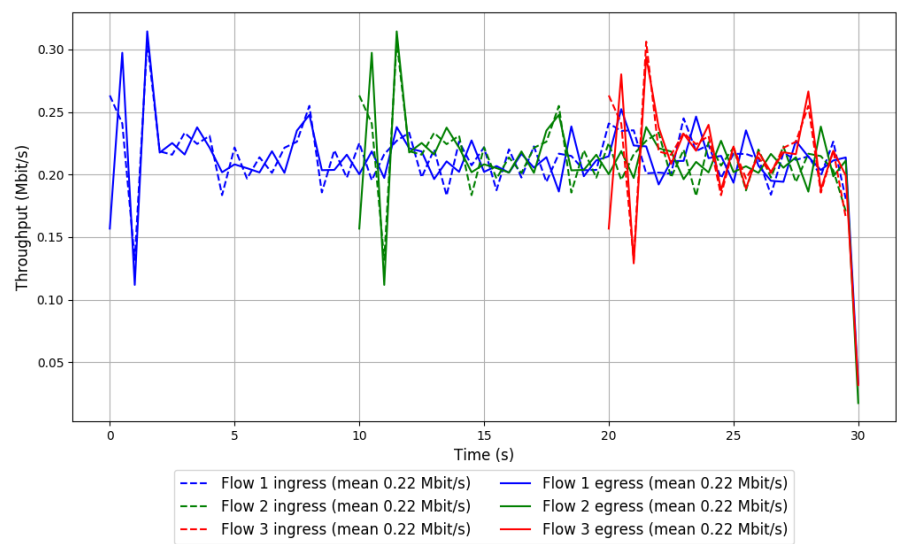
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 145.171 ms

Loss rate: 0.00%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SReAM

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

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

Local clock offset: 9.888 ms

Remote clock offset: -0.73 ms

Below is generated by plot.py at 2018-04-17 21:10:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 155.132 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 155.156 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 153.962 ms

Loss rate: 0.00%

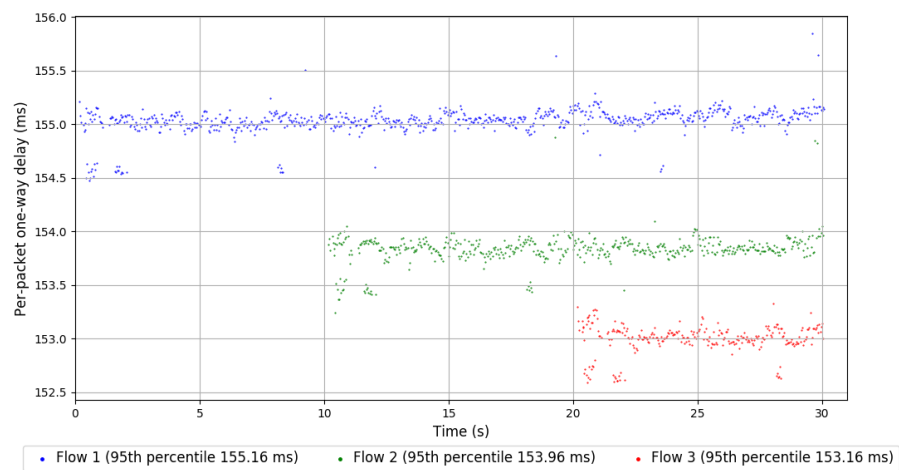
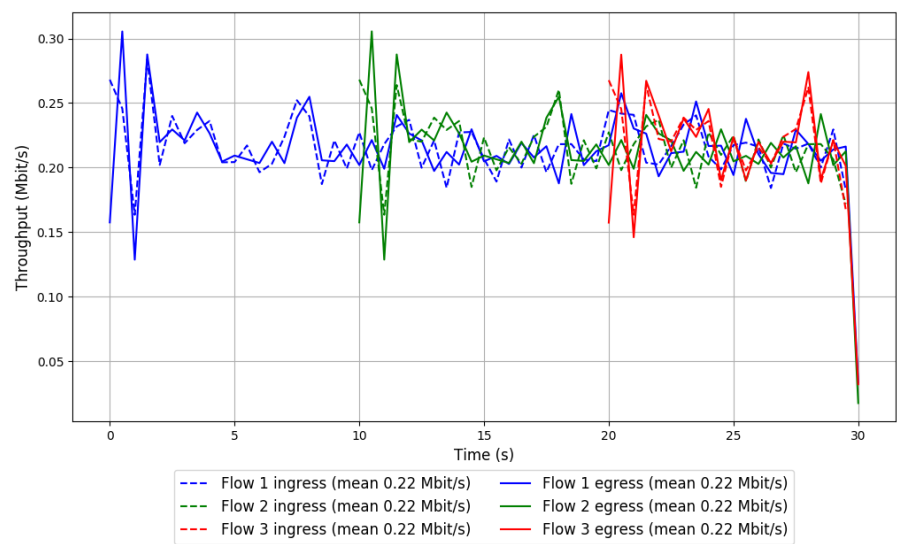
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 153.165 ms

Loss rate: 0.00%

Run 7: Report of SReAM — Data Link

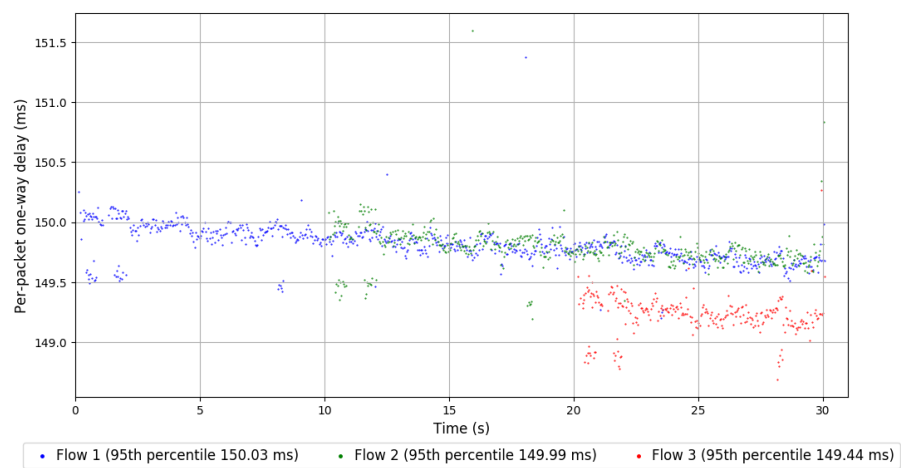
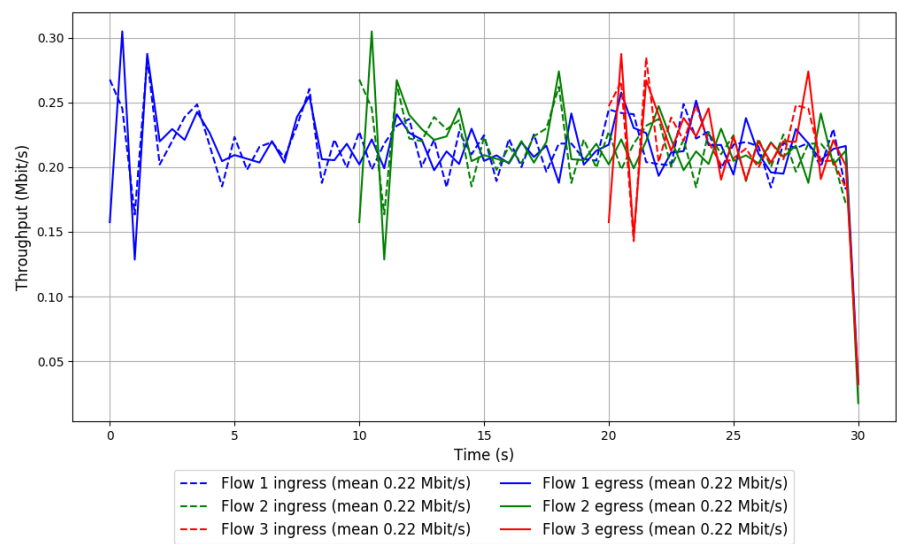


Run 8: Statistics of SReAM

Start at: 2018-04-17 19:40:02
End at: 2018-04-17 19:40:32
Local clock offset: 10.263 ms
Remote clock offset: -2.197 ms

Below is generated by plot.py at 2018-04-17 21:10:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 150.008 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 150.033 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 149.993 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 149.438 ms
Loss rate: 0.00%

Run 8: Report of SReAM — Data Link

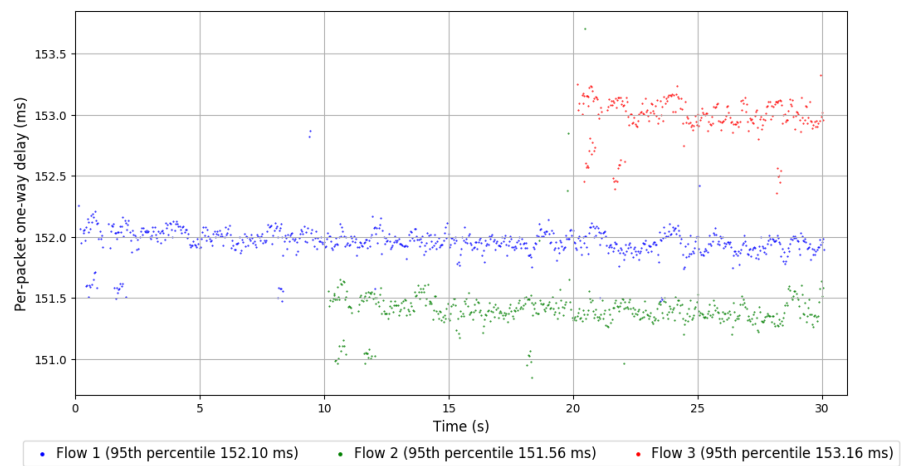
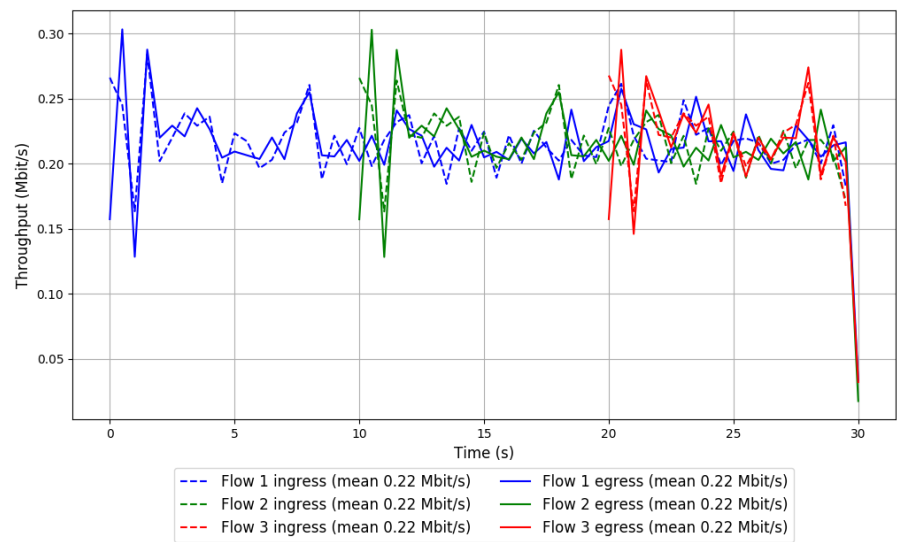


Run 9: Statistics of SReAM

Start at: 2018-04-17 20:03:00
End at: 2018-04-17 20:03:30
Local clock offset: 2.772 ms
Remote clock offset: -1.982 ms

Below is generated by plot.py at 2018-04-17 21:10:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 153.080 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 152.104 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 151.558 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 153.158 ms
Loss rate: 0.00%

Run 9: Report of SReAM — Data Link

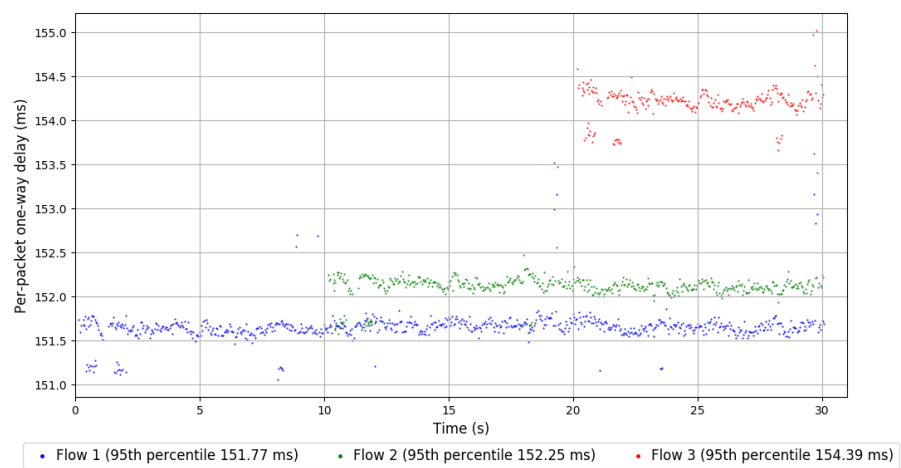
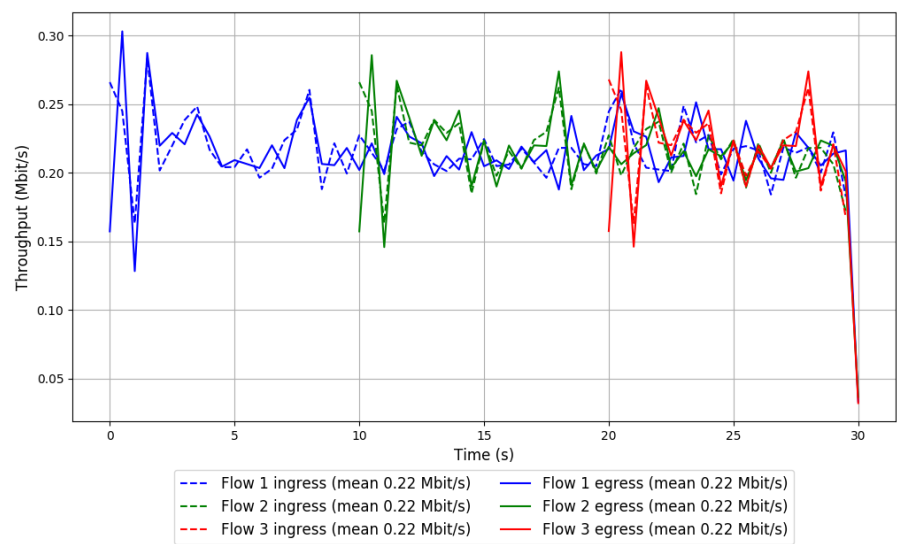


Run 10: Statistics of SCReAM

Start at: 2018-04-17 20:25:48
End at: 2018-04-17 20:26:18
Local clock offset: 4.822 ms
Remote clock offset: -1.207 ms

Below is generated by plot.py at 2018-04-17 21:10:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 154.267 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 151.768 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 152.250 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 154.390 ms
Loss rate: 0.00%

Run 10: Report of SCReAM — Data Link

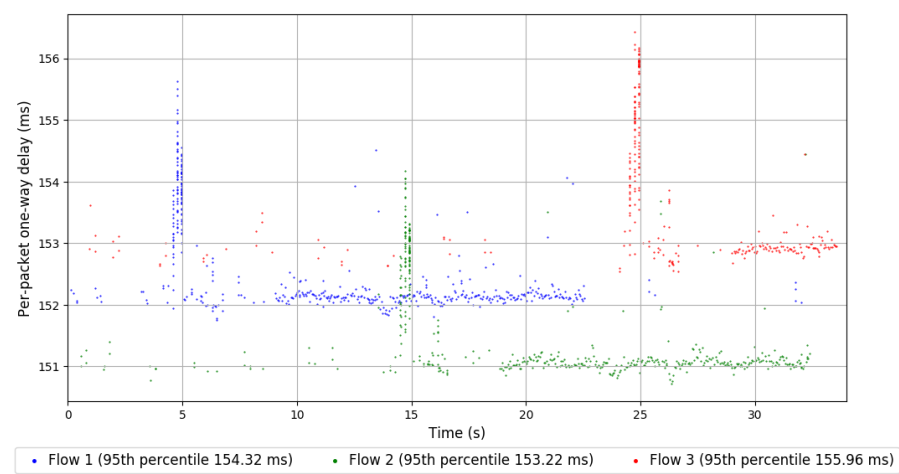
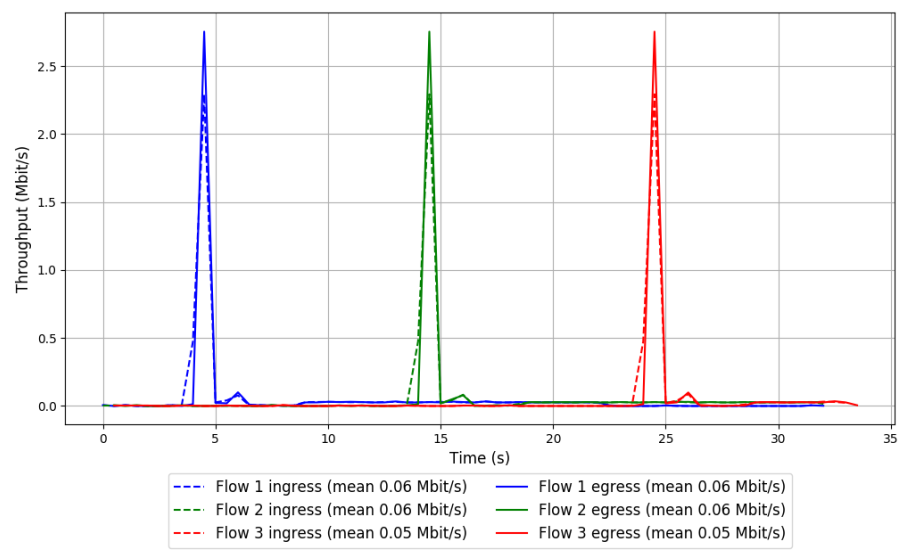


Run 1: Statistics of WebRTC media

Start at: 2018-04-17 16:55:37
End at: 2018-04-17 16:56:07
Local clock offset: 6.517 ms
Remote clock offset: -1.844 ms

Below is generated by plot.py at 2018-04-17 21:10:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 155.027 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 154.317 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 153.216 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 155.957 ms
Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

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

End at: 2018-04-17 17:19:03

Local clock offset: 5.632 ms

Remote clock offset: 4.706 ms

Below is generated by plot.py at 2018-04-17 21:10:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.16 Mbit/s

95th percentile per-packet one-way delay: 154.453 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 155.014 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 154.353 ms

Loss rate: 0.00%

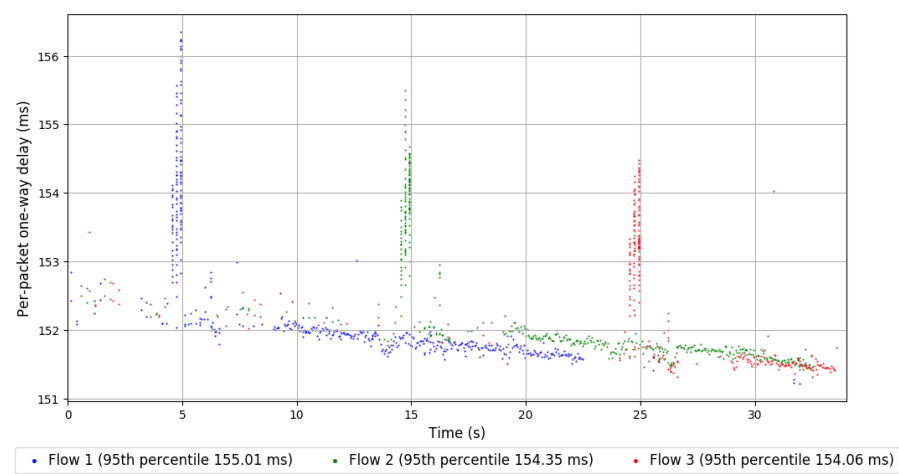
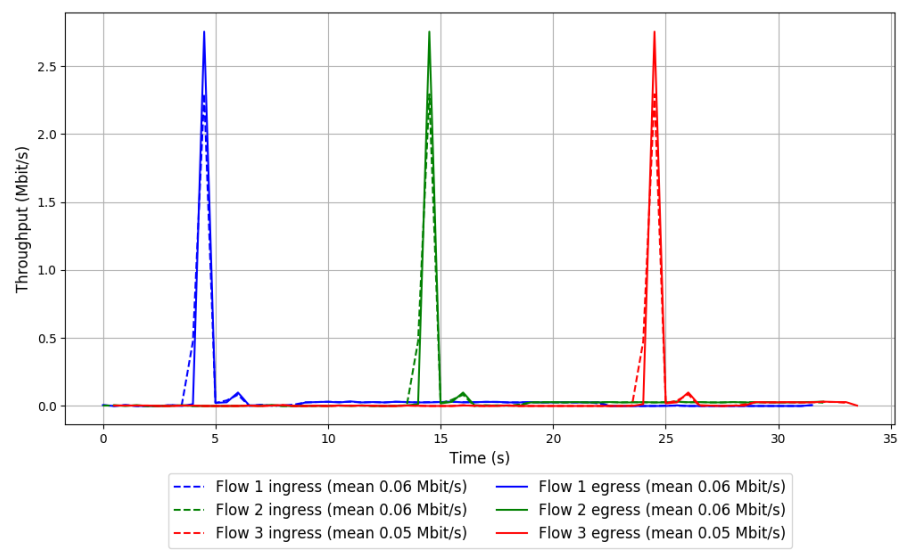
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 154.055 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-04-17 17:41:31

End at: 2018-04-17 17:42:01

Local clock offset: 7.594 ms

Remote clock offset: 8.093 ms

Below is generated by plot.py at 2018-04-17 21:10:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.16 Mbit/s

95th percentile per-packet one-way delay: 154.176 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 153.649 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 154.380 ms

Loss rate: 0.00%

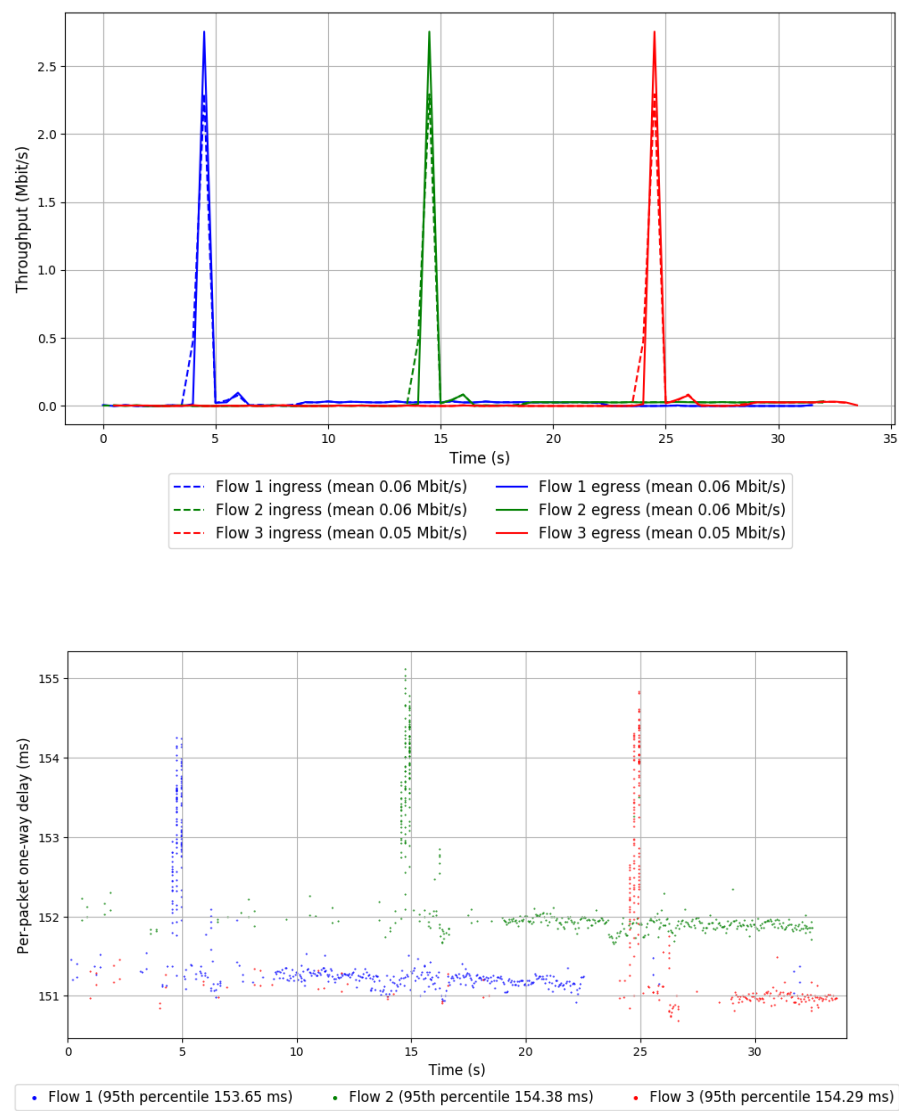
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 154.288 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link

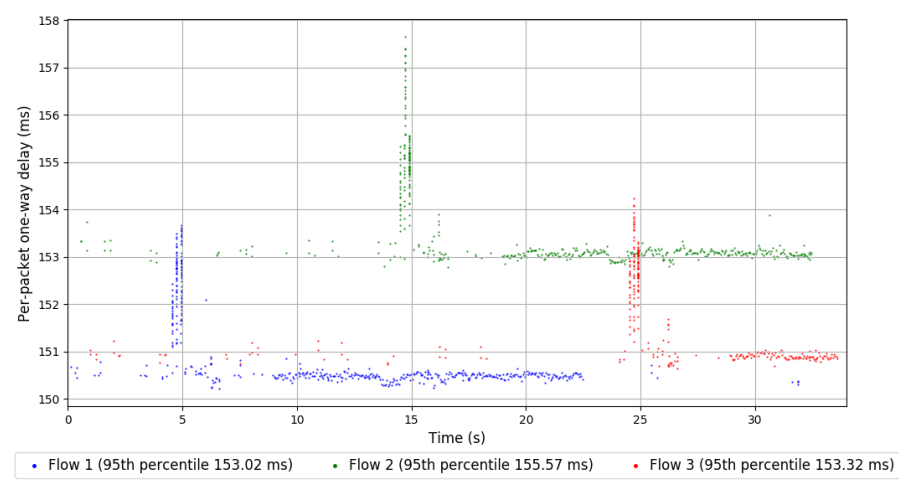
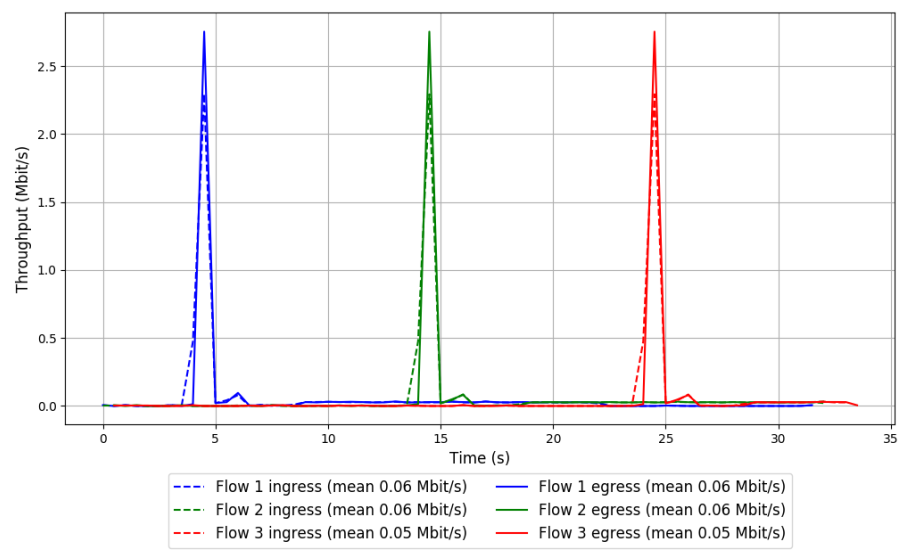


Run 4: Statistics of WebRTC media

Start at: 2018-04-17 18:04:27
End at: 2018-04-17 18:04:57
Local clock offset: 5.954 ms
Remote clock offset: -6.708 ms

Below is generated by plot.py at 2018-04-17 21:10:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 154.979 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 153.017 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 155.572 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 153.318 ms
Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-04-17 18:27:07

End at: 2018-04-17 18:27:37

Local clock offset: 4.014 ms

Remote clock offset: 2.448 ms

Below is generated by plot.py at 2018-04-17 21:10:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.16 Mbit/s

95th percentile per-packet one-way delay: 155.372 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 154.419 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 155.924 ms

Loss rate: 0.00%

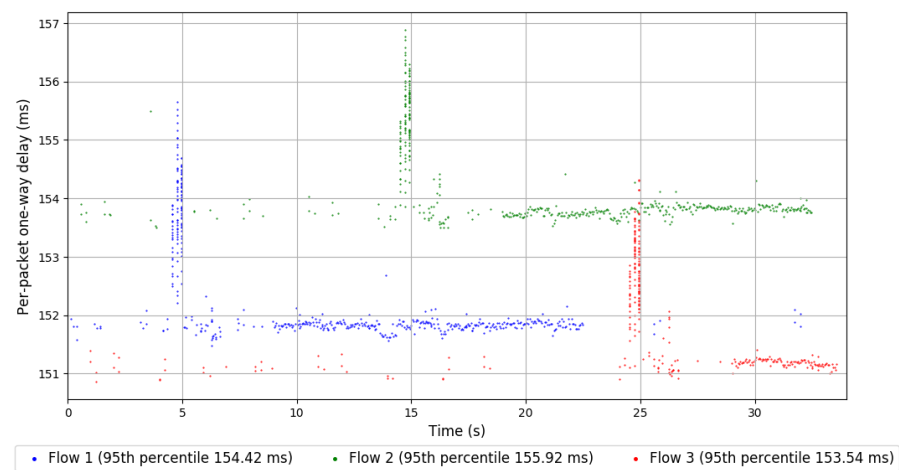
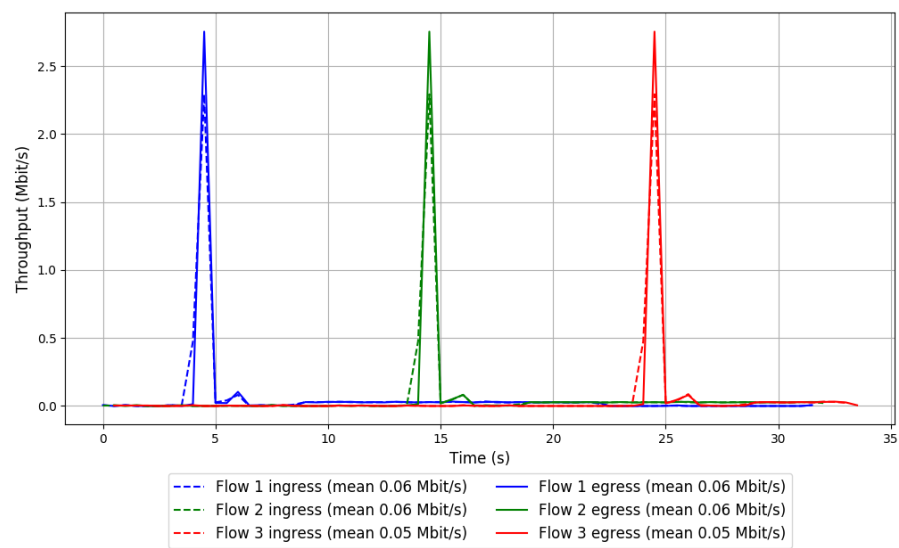
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 153.542 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-04-17 18:50:08

End at: 2018-04-17 18:50:38

Local clock offset: 5.983 ms

Remote clock offset: 1.794 ms

Below is generated by plot.py at 2018-04-17 21:10:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.16 Mbit/s

95th percentile per-packet one-way delay: 154.815 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 155.036 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 153.366 ms

Loss rate: 0.00%

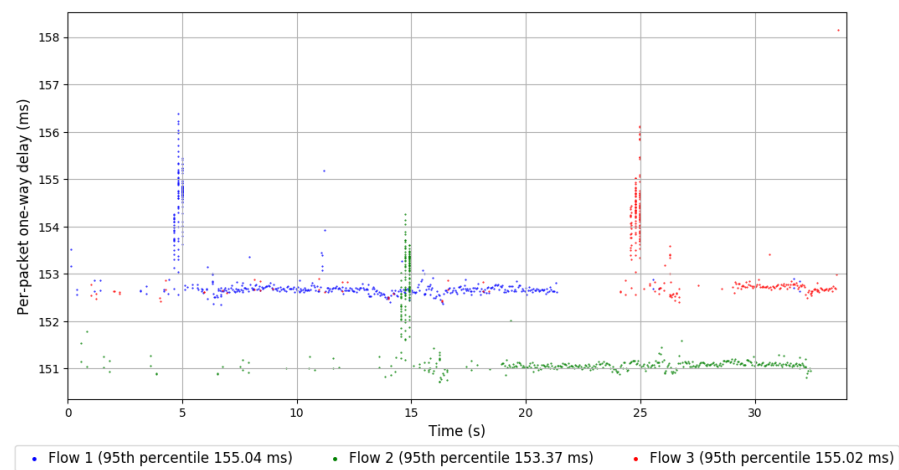
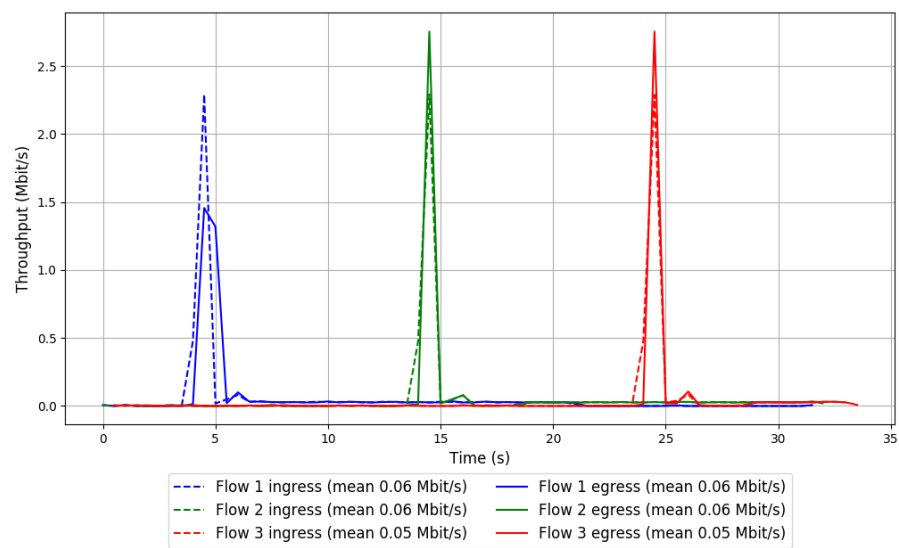
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 155.018 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link

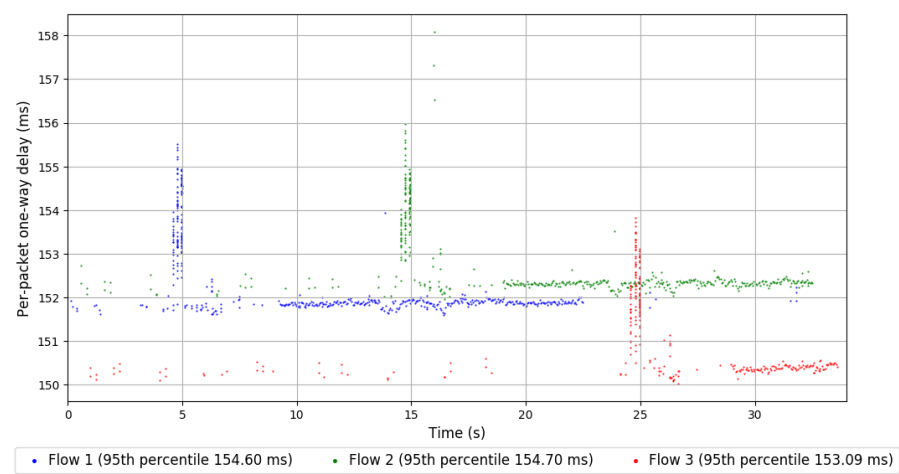
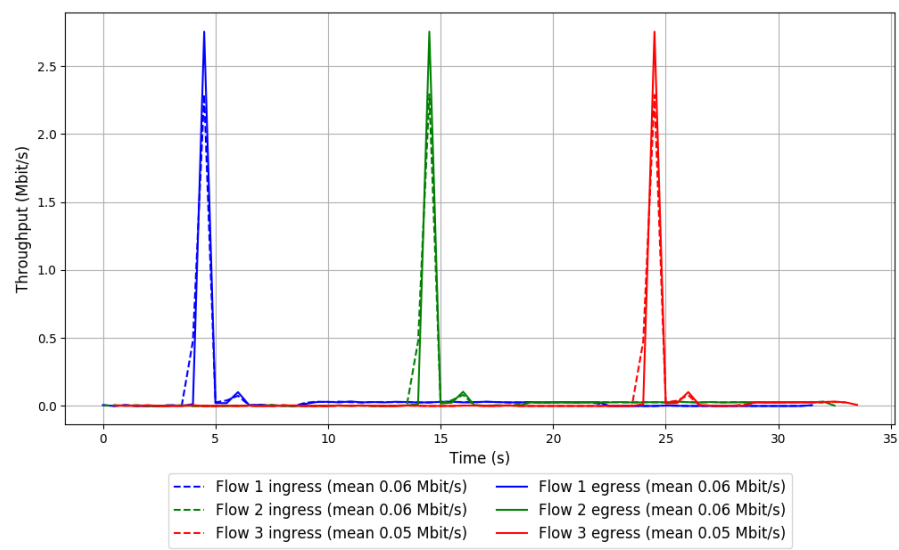


Run 7: Statistics of WebRTC media

Start at: 2018-04-17 19:13:13
End at: 2018-04-17 19:13:43
Local clock offset: 9.402 ms
Remote clock offset: -0.697 ms

Below is generated by plot.py at 2018-04-17 21:10:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 154.554 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 154.597 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 154.703 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 153.087 ms
Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link

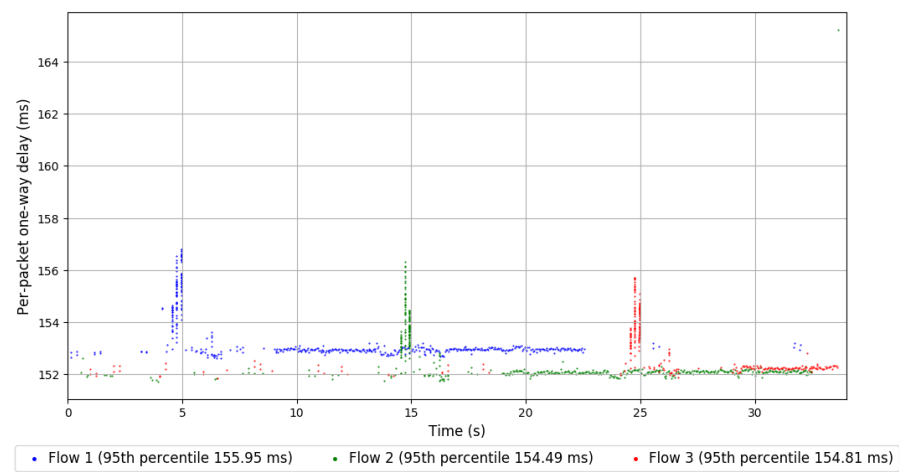
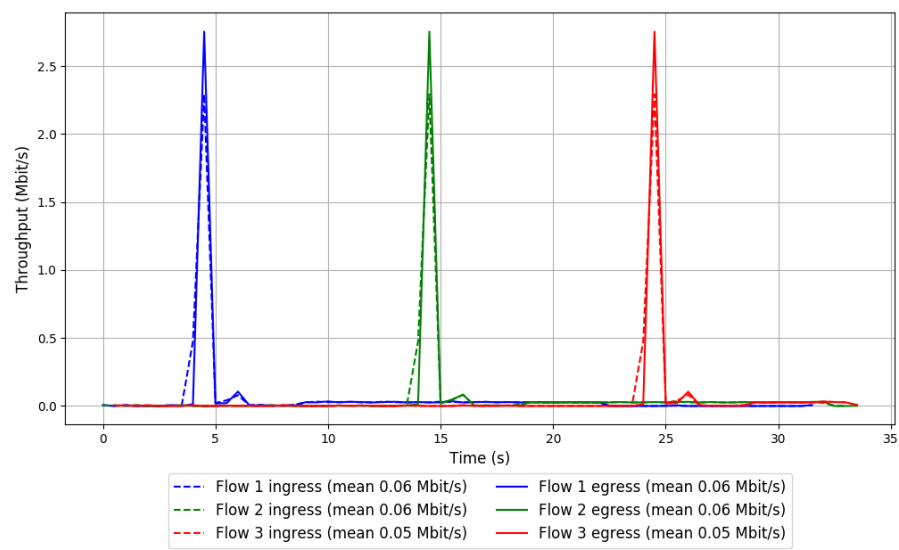


Run 8: Statistics of WebRTC media

Start at: 2018-04-17 19:36:07
End at: 2018-04-17 19:36:37
Local clock offset: 12.047 ms
Remote clock offset: -1.894 ms

Below is generated by plot.py at 2018-04-17 21:10:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 155.468 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 155.950 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 154.494 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 154.807 ms
Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link

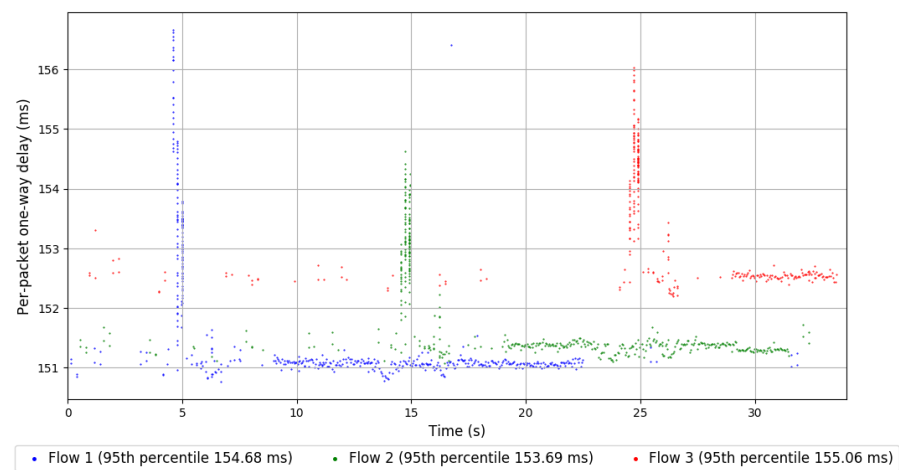
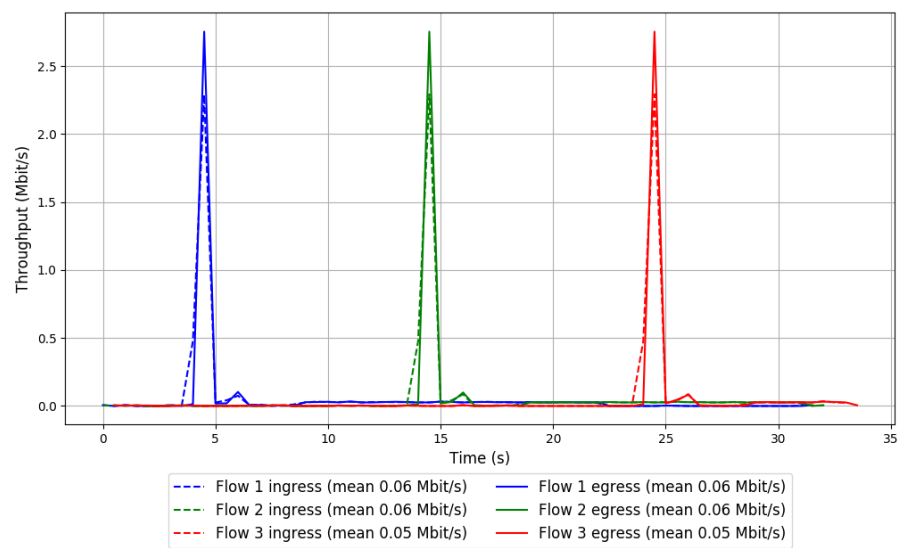


Run 9: Statistics of WebRTC media

Start at: 2018-04-17 19:59:05
End at: 2018-04-17 19:59:35
Local clock offset: 3.377 ms
Remote clock offset: -1.705 ms

Below is generated by plot.py at 2018-04-17 21:10:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 154.684 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 154.684 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 153.687 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 155.059 ms
Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link

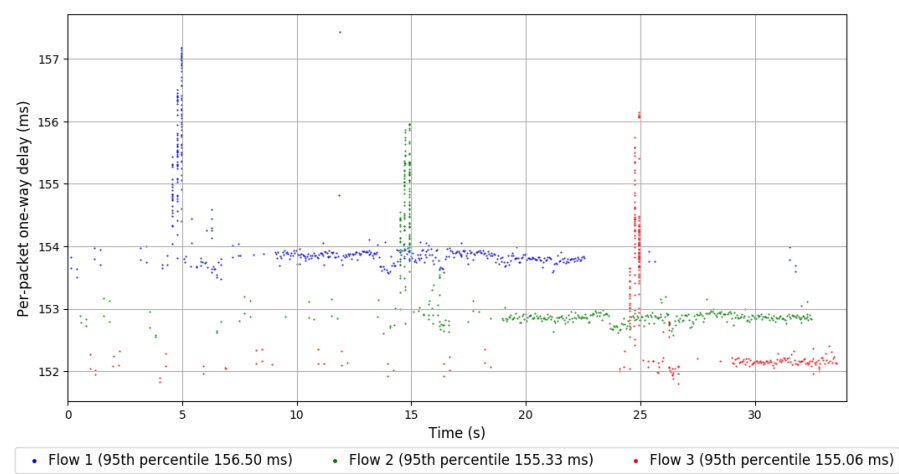
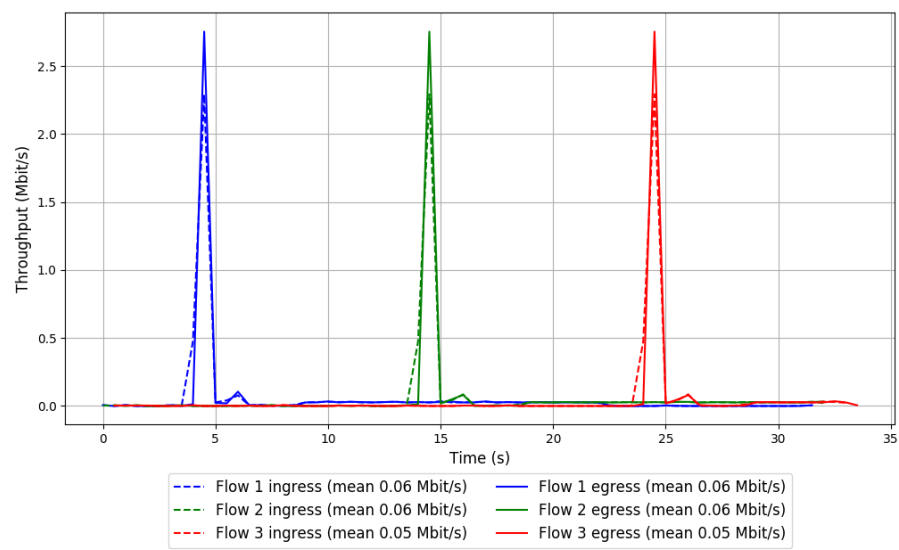


Run 10: Statistics of WebRTC media

Start at: 2018-04-17 20:21:54
End at: 2018-04-17 20:22:24
Local clock offset: 4.422 ms
Remote clock offset: -1.166 ms

Below is generated by plot.py at 2018-04-17 21:10:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 155.813 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 156.498 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 155.326 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 155.059 ms
Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

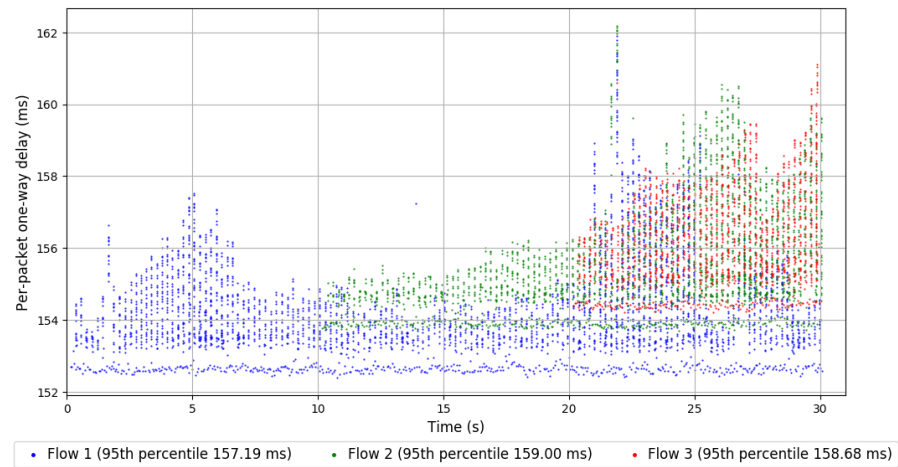
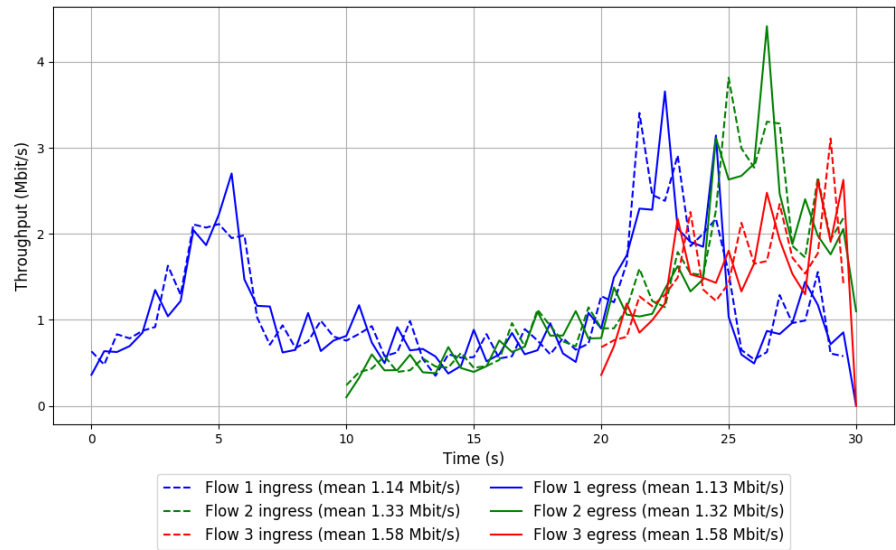


Run 1: Statistics of Sprout

Start at: 2018-04-17 17:06:24
End at: 2018-04-17 17:06:54
Local clock offset: 5.576 ms
Remote clock offset: -3.186 ms

Below is generated by plot.py at 2018-04-17 21:10:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 2.53 Mbit/s
95th percentile per-packet one-way delay: 158.444 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 1.13 Mbit/s
95th percentile per-packet one-way delay: 157.185 ms
Loss rate: 0.54%
-- Flow 2:
Average throughput: 1.32 Mbit/s
95th percentile per-packet one-way delay: 159.000 ms
Loss rate: 0.93%
-- Flow 3:
Average throughput: 1.58 Mbit/s
95th percentile per-packet one-way delay: 158.676 ms
Loss rate: 0.00%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-04-17 17:29:24

End at: 2018-04-17 17:29:54

Local clock offset: 6.794 ms

Remote clock offset: 0.758 ms

Below is generated by plot.py at 2018-04-17 21:10:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 2.14 Mbit/s

95th percentile per-packet one-way delay: 155.316 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.27 Mbit/s

95th percentile per-packet one-way delay: 155.710 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.04 Mbit/s

95th percentile per-packet one-way delay: 154.418 ms

Loss rate: 0.00%

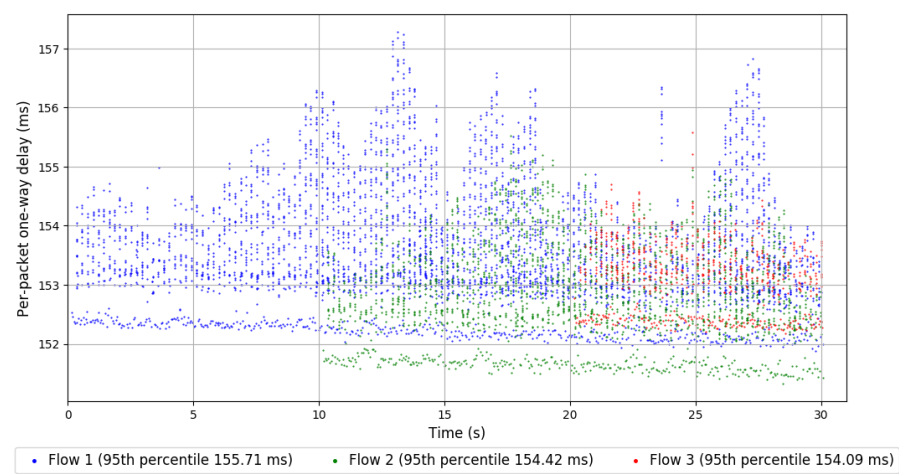
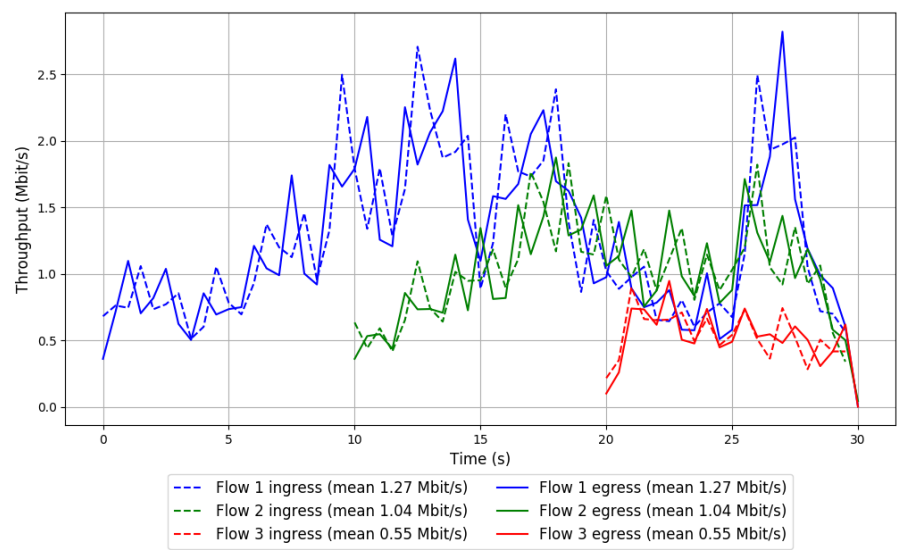
-- Flow 3:

Average throughput: 0.55 Mbit/s

95th percentile per-packet one-way delay: 154.086 ms

Loss rate: 0.00%

Run 2: Report of Sprout — Data Link

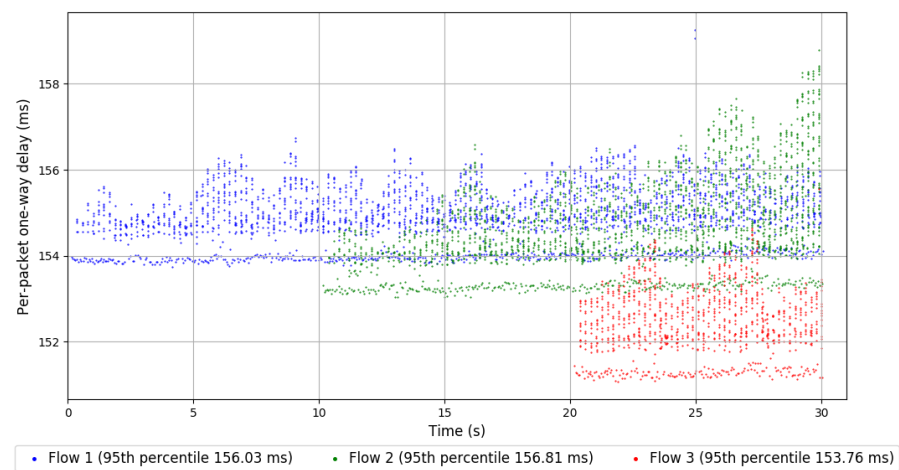
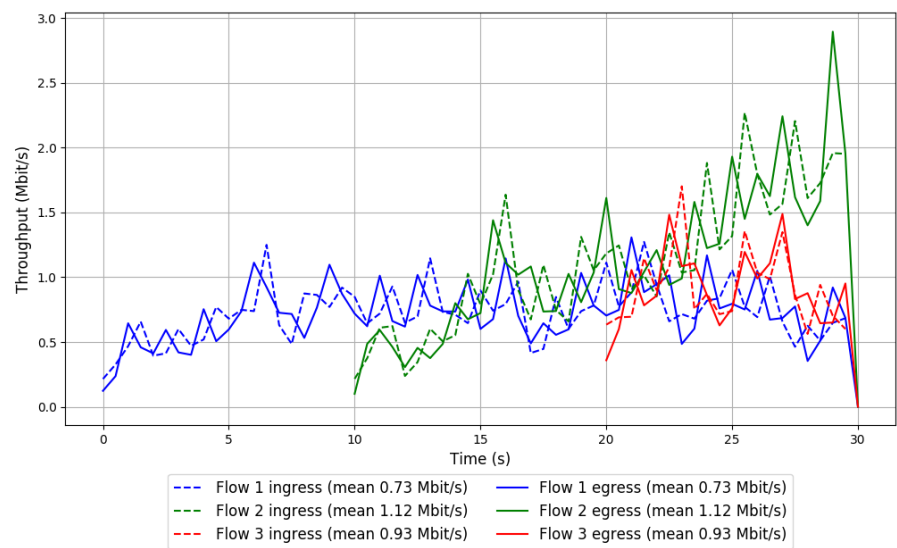


Run 3: Statistics of Sprout

Start at: 2018-04-17 17:52:21
End at: 2018-04-17 17:52:51
Local clock offset: 8.069 ms
Remote clock offset: 4.995 ms

```
# Below is generated by plot.py at 2018-04-17 21:10:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.78 Mbit/s
95th percentile per-packet one-way delay: 156.215 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.73 Mbit/s
95th percentile per-packet one-way delay: 156.026 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.12 Mbit/s
95th percentile per-packet one-way delay: 156.815 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.93 Mbit/s
95th percentile per-packet one-way delay: 153.761 ms
Loss rate: 0.00%
```

Run 3: Report of Sprout — Data Link

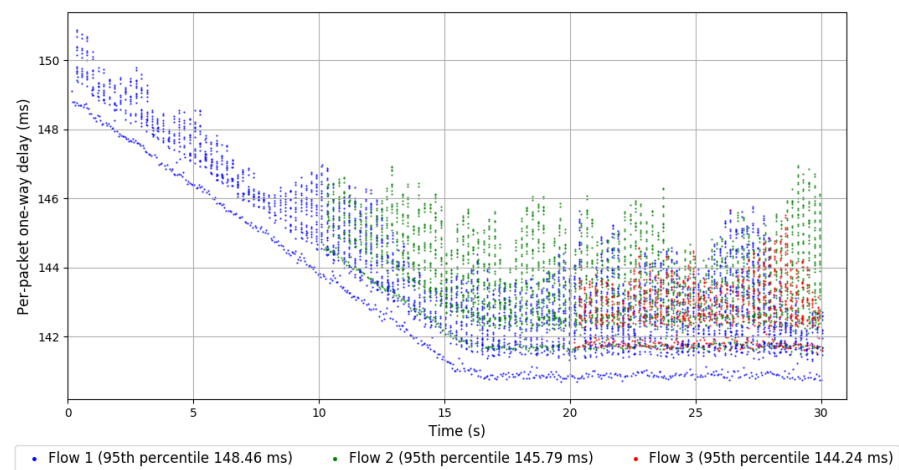
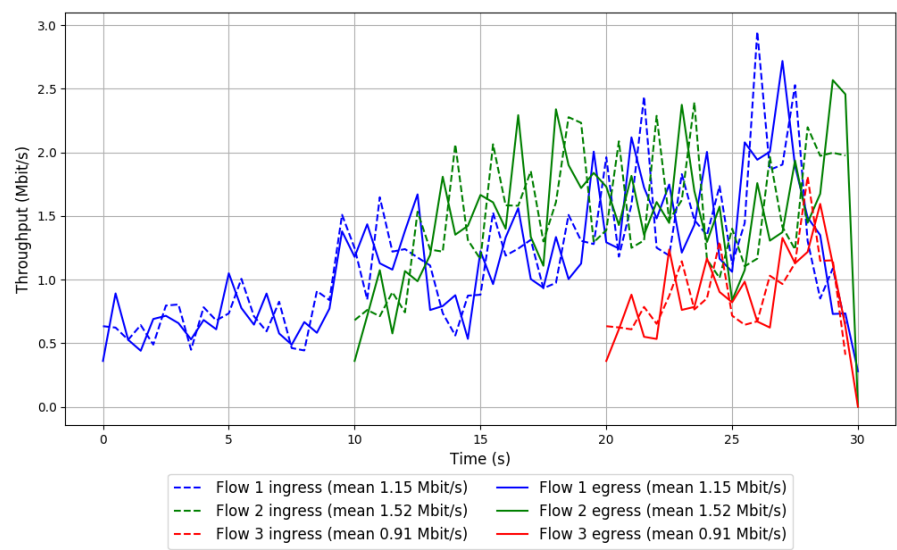


Run 4: Statistics of Sprout

Start at: 2018-04-17 18:15:01
End at: 2018-04-17 18:15:31
Local clock offset: 4.741 ms
Remote clock offset: -6.777 ms

```
# Below is generated by plot.py at 2018-04-17 21:10:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 2.47 Mbit/s
95th percentile per-packet one-way delay: 147.253 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.15 Mbit/s
95th percentile per-packet one-way delay: 148.462 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.52 Mbit/s
95th percentile per-packet one-way delay: 145.790 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.91 Mbit/s
95th percentile per-packet one-way delay: 144.237 ms
Loss rate: 0.00%
```

Run 4: Report of Sprout — Data Link

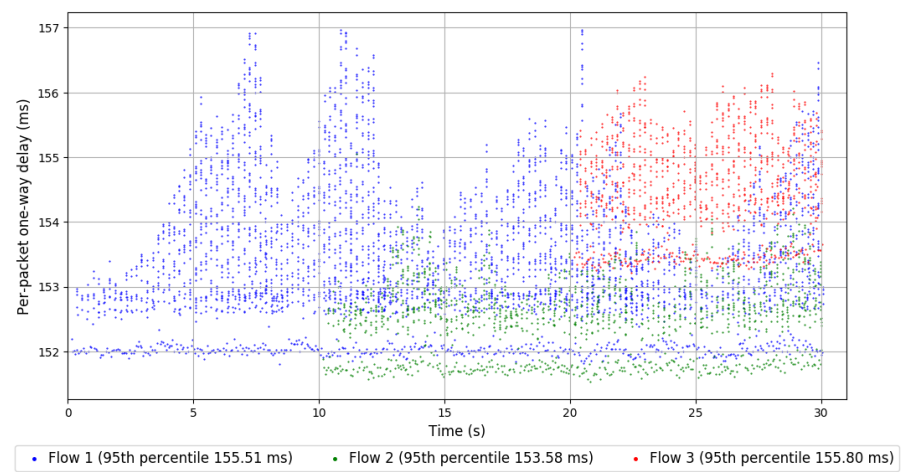
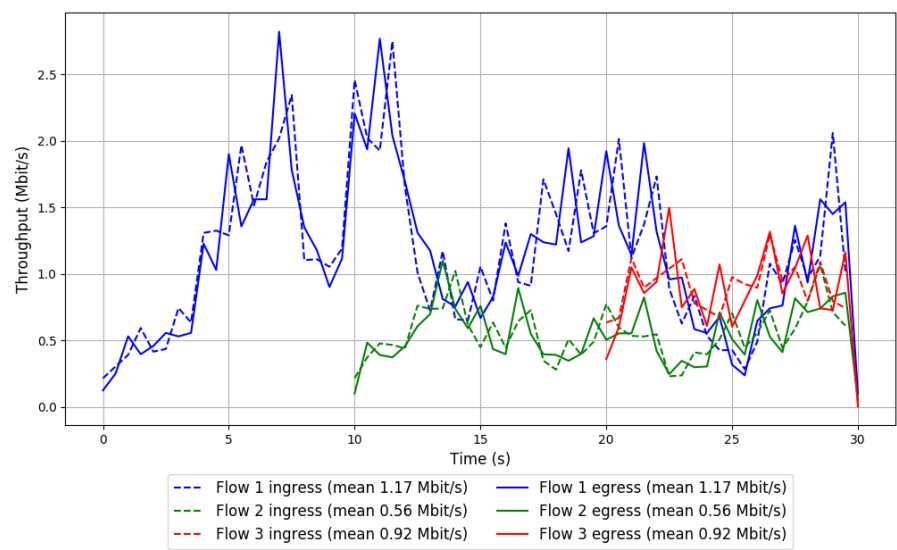


Run 5: Statistics of Sprout

Start at: 2018-04-17 18:37:59
End at: 2018-04-17 18:38:29
Local clock offset: 5.338 ms
Remote clock offset: 1.627 ms

```
# Below is generated by plot.py at 2018-04-17 21:10:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.84 Mbit/s
95th percentile per-packet one-way delay: 155.521 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.17 Mbit/s
95th percentile per-packet one-way delay: 155.507 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.56 Mbit/s
95th percentile per-packet one-way delay: 153.576 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.92 Mbit/s
95th percentile per-packet one-way delay: 155.804 ms
Loss rate: 0.00%
```

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-04-17 19:01:03

End at: 2018-04-17 19:01:33

Local clock offset: 6.101 ms

Remote clock offset: 0.503 ms

Below is generated by plot.py at 2018-04-17 21:10:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 2.16 Mbit/s

95th percentile per-packet one-way delay: 160.643 ms

Loss rate: 0.25%

-- Flow 1:

Average throughput: 0.99 Mbit/s

95th percentile per-packet one-way delay: 154.497 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.31 Mbit/s

95th percentile per-packet one-way delay: 161.974 ms

Loss rate: 0.62%

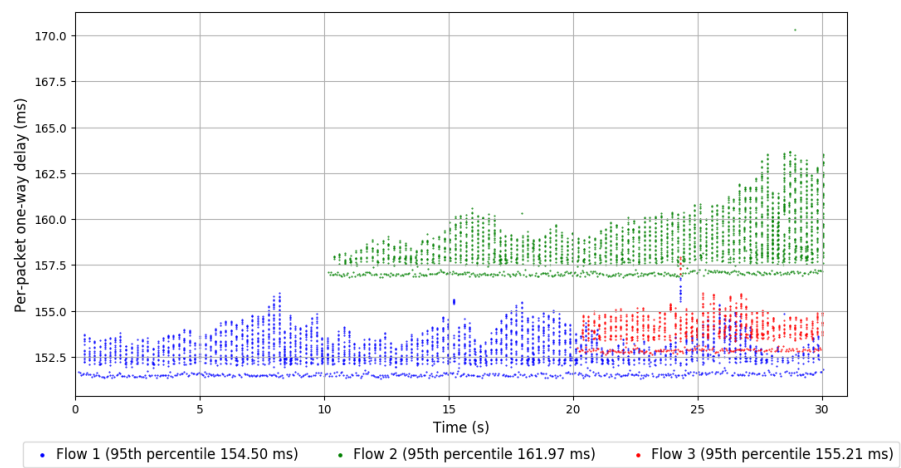
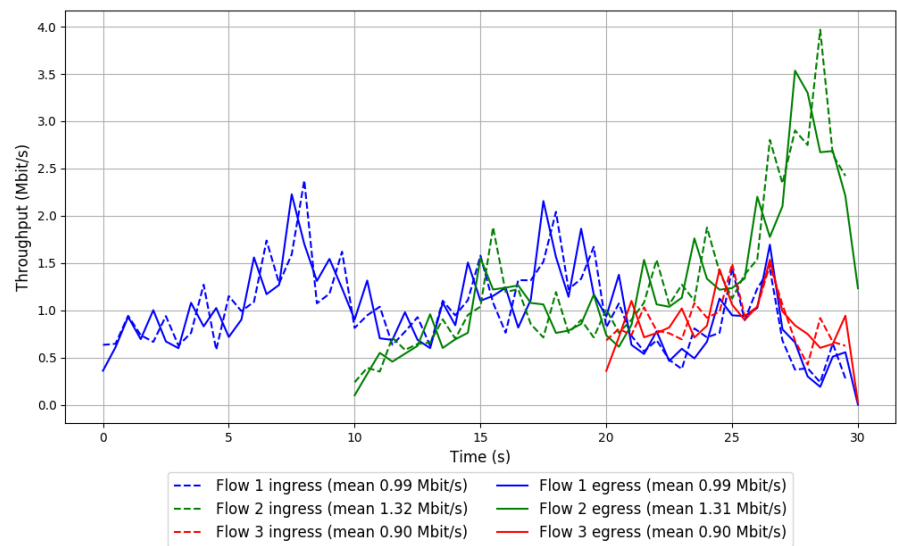
-- Flow 3:

Average throughput: 0.90 Mbit/s

95th percentile per-packet one-way delay: 155.212 ms

Loss rate: 0.00%

Run 6: Report of Sprout — Data Link

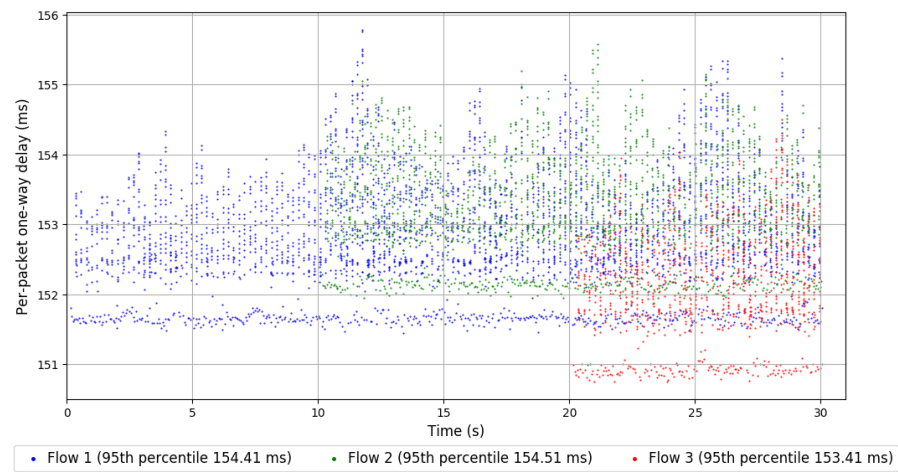
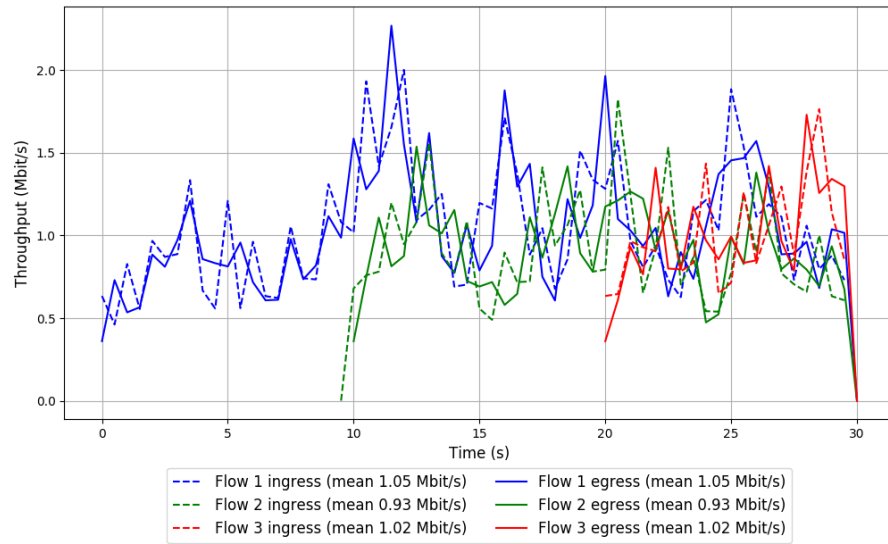


Run 7: Statistics of Sprout

Start at: 2018-04-17 19:24:01
End at: 2018-04-17 19:24:31
Local clock offset: 11.045 ms
Remote clock offset: -1.028 ms

```
# Below is generated by plot.py at 2018-04-17 21:10:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 2.00 Mbit/s
95th percentile per-packet one-way delay: 154.383 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.05 Mbit/s
95th percentile per-packet one-way delay: 154.410 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.93 Mbit/s
95th percentile per-packet one-way delay: 154.514 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 1.02 Mbit/s
95th percentile per-packet one-way delay: 153.408 ms
Loss rate: 0.00%
```

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-04-17 19:46:49

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

Local clock offset: 6.487 ms

Remote clock offset: -0.91 ms

Below is generated by plot.py at 2018-04-17 21:10:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 2.13 Mbit/s

95th percentile per-packet one-way delay: 154.505 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.96 Mbit/s

95th percentile per-packet one-way delay: 152.784 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.04 Mbit/s

95th percentile per-packet one-way delay: 153.370 ms

Loss rate: 0.00%

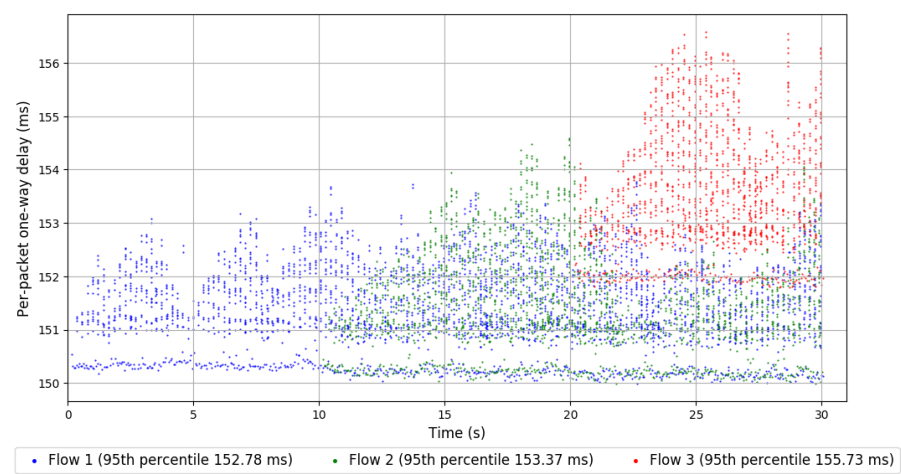
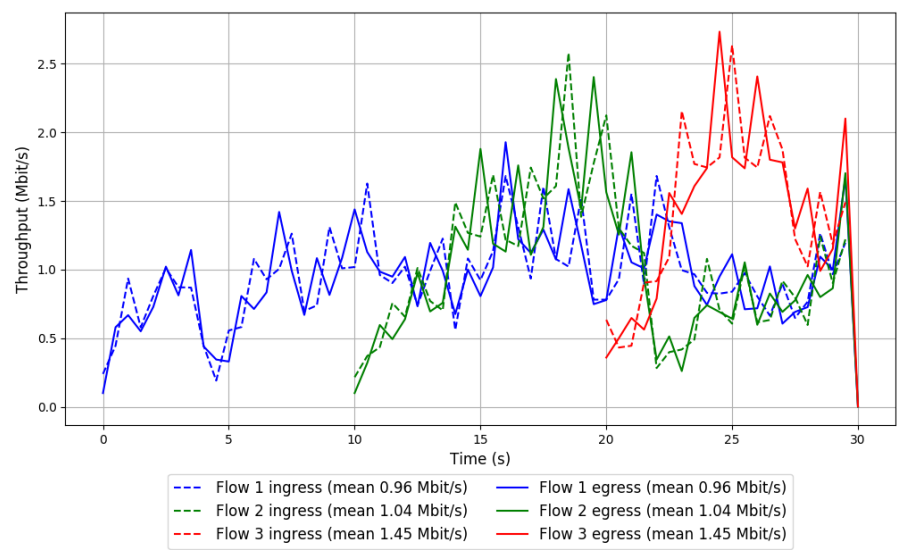
-- Flow 3:

Average throughput: 1.45 Mbit/s

95th percentile per-packet one-way delay: 155.726 ms

Loss rate: 0.00%

Run 8: Report of Sprout — Data Link

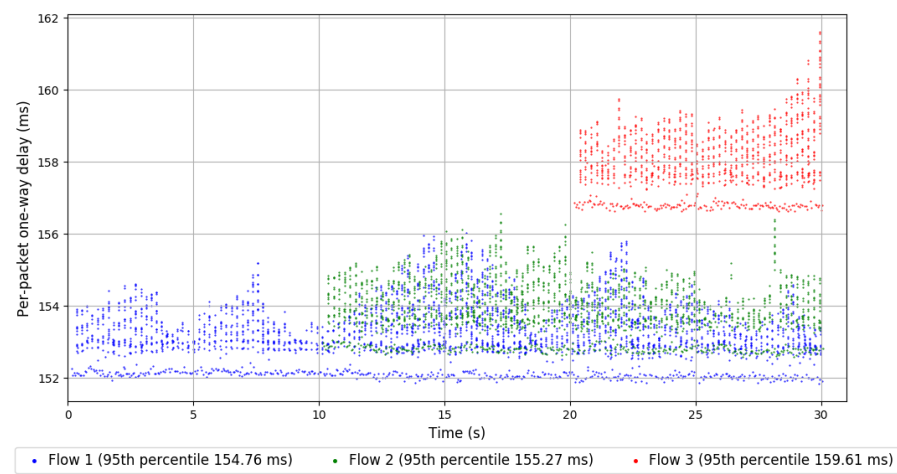
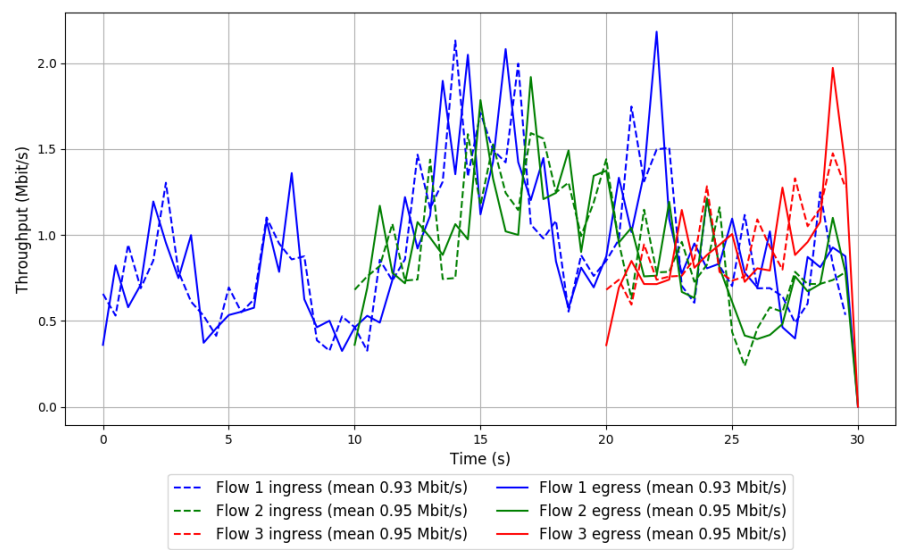


Run 9: Statistics of Sprout

Start at: 2018-04-17 20:09:47
End at: 2018-04-17 20:10:17
Local clock offset: 2.389 ms
Remote clock offset: -1.402 ms

```
# Below is generated by plot.py at 2018-04-17 21:10:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.87 Mbit/s
95th percentile per-packet one-way delay: 158.566 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.93 Mbit/s
95th percentile per-packet one-way delay: 154.761 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.95 Mbit/s
95th percentile per-packet one-way delay: 155.272 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.95 Mbit/s
95th percentile per-packet one-way delay: 159.613 ms
Loss rate: 0.00%
```

Run 9: Report of Sprout — Data Link

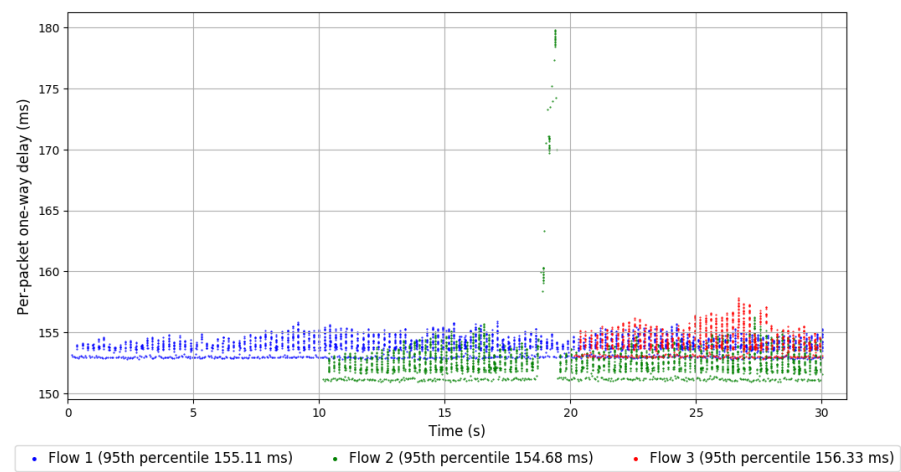
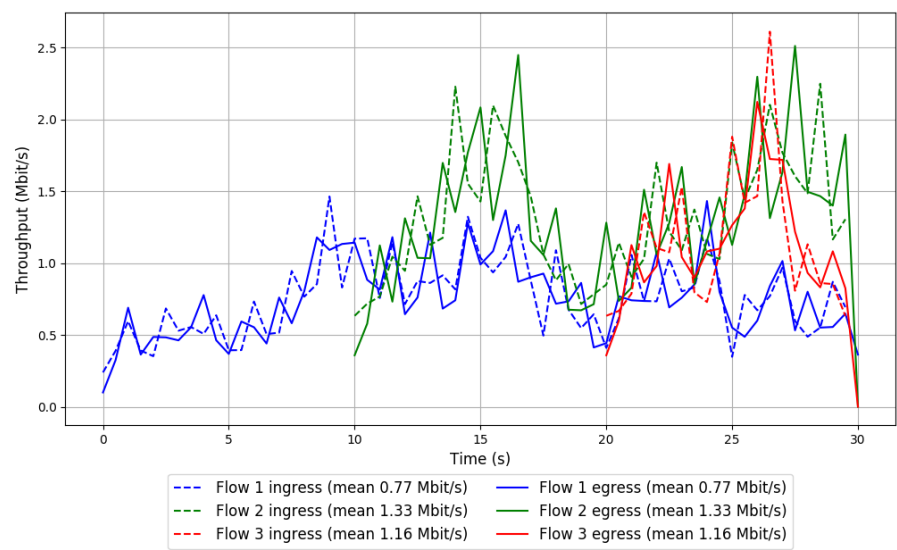


Run 10: Statistics of Sprout

Start at: 2018-04-17 20:32:43
End at: 2018-04-17 20:33:13
Local clock offset: 5.046 ms
Remote clock offset: -1.297 ms

Below is generated by plot.py at 2018-04-17 21:10:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 2.03 Mbit/s
95th percentile per-packet one-way delay: 155.376 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.77 Mbit/s
95th percentile per-packet one-way delay: 155.106 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.33 Mbit/s
95th percentile per-packet one-way delay: 154.684 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 1.16 Mbit/s
95th percentile per-packet one-way delay: 156.334 ms
Loss rate: 0.00%

Run 10: Report of Sprout — Data Link

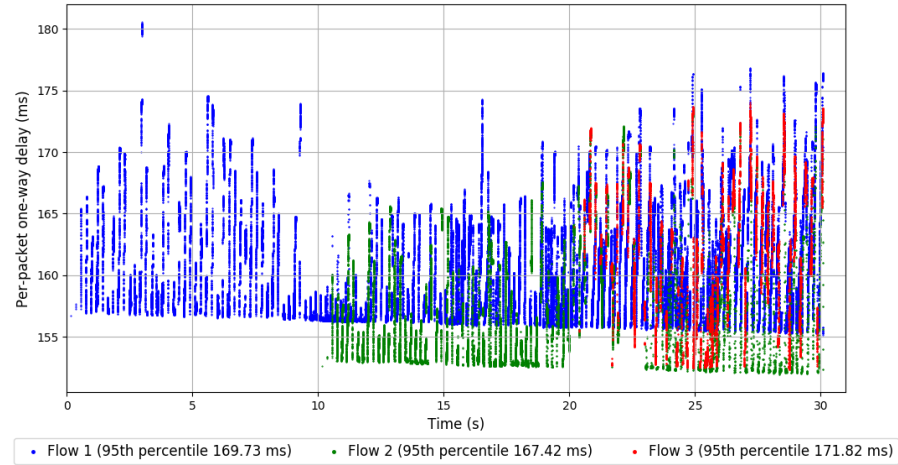
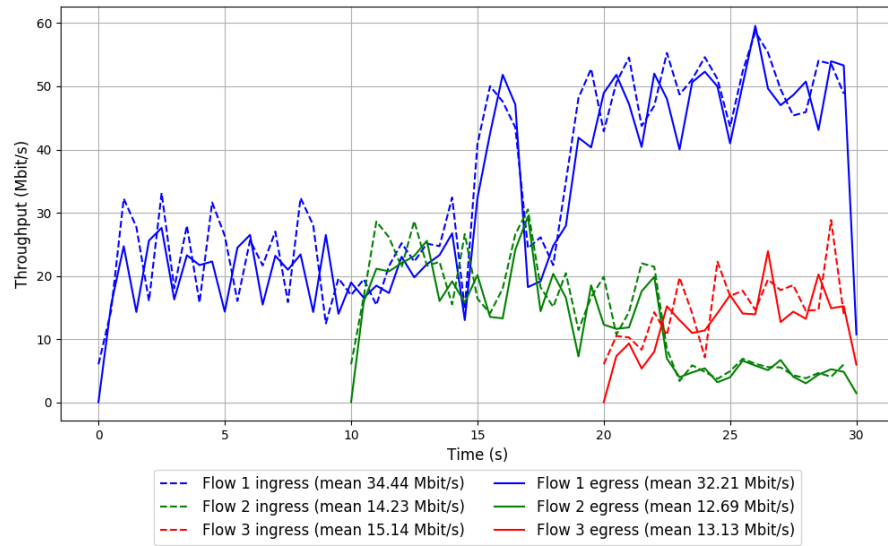


Run 1: Statistics of TaoVA-100x

Start at: 2018-04-17 17:13:11
End at: 2018-04-17 17:13:41
Local clock offset: 5.659 ms
Remote clock offset: -9.309 ms

Below is generated by plot.py at 2018-04-17 21:11:48
Datalink statistics
-- Total of 3 flows:
Average throughput: 45.01 Mbit/s
95th percentile per-packet one-way delay: 169.697 ms
Loss rate: 8.02%
-- Flow 1:
Average throughput: 32.21 Mbit/s
95th percentile per-packet one-way delay: 169.727 ms
Loss rate: 6.49%
-- Flow 2:
Average throughput: 12.69 Mbit/s
95th percentile per-packet one-way delay: 167.419 ms
Loss rate: 10.84%
-- Flow 3:
Average throughput: 13.13 Mbit/s
95th percentile per-packet one-way delay: 171.821 ms
Loss rate: 13.23%

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



Run 2: Statistics of TaoVA-100x

Start at: 2018-04-17 17:36:11

End at: 2018-04-17 17:36:41

Local clock offset: 7.353 ms

Remote clock offset: 5.327 ms

Below is generated by plot.py at 2018-04-17 21:11:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 30.51 Mbit/s

95th percentile per-packet one-way delay: 161.042 ms

Loss rate: 4.25%

-- Flow 1:

Average throughput: 16.15 Mbit/s

95th percentile per-packet one-way delay: 160.353 ms

Loss rate: 3.28%

-- Flow 2:

Average throughput: 16.55 Mbit/s

95th percentile per-packet one-way delay: 161.998 ms

Loss rate: 5.96%

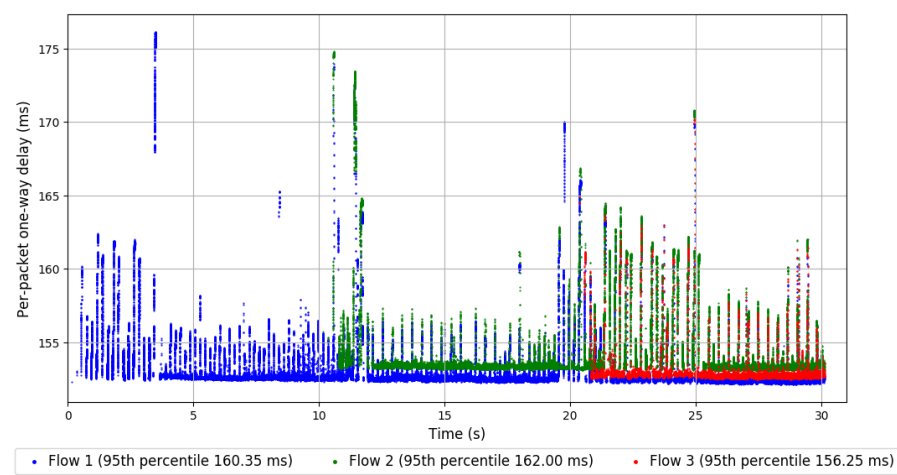
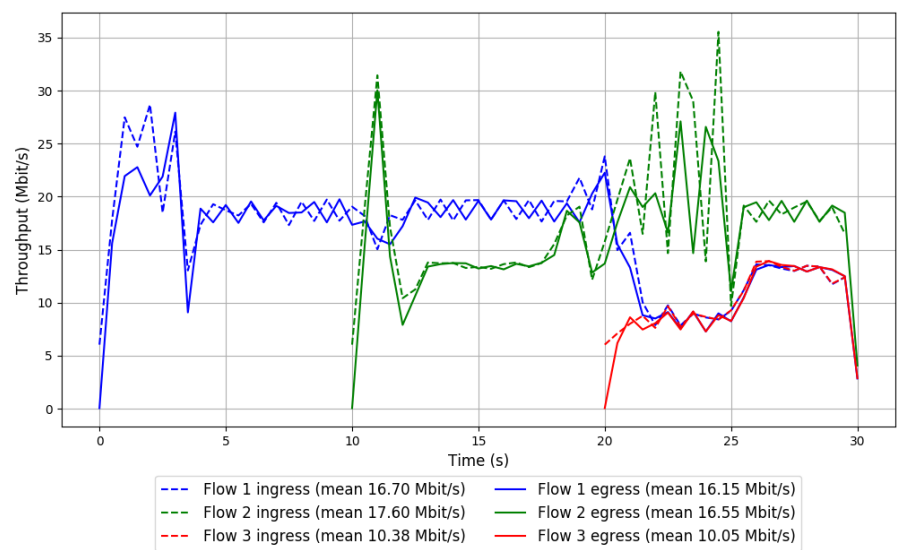
-- Flow 3:

Average throughput: 10.05 Mbit/s

95th percentile per-packet one-way delay: 156.246 ms

Loss rate: 3.19%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-04-17 17:59:05

End at: 2018-04-17 17:59:35

Local clock offset: 6.808 ms

Remote clock offset: 2.419 ms

Below is generated by plot.py at 2018-04-17 21:11:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 44.01 Mbit/s

95th percentile per-packet one-way delay: 170.903 ms

Loss rate: 7.69%

-- Flow 1:

Average throughput: 14.02 Mbit/s

95th percentile per-packet one-way delay: 167.782 ms

Loss rate: 10.06%

-- Flow 2:

Average throughput: 30.25 Mbit/s

95th percentile per-packet one-way delay: 172.837 ms

Loss rate: 5.78%

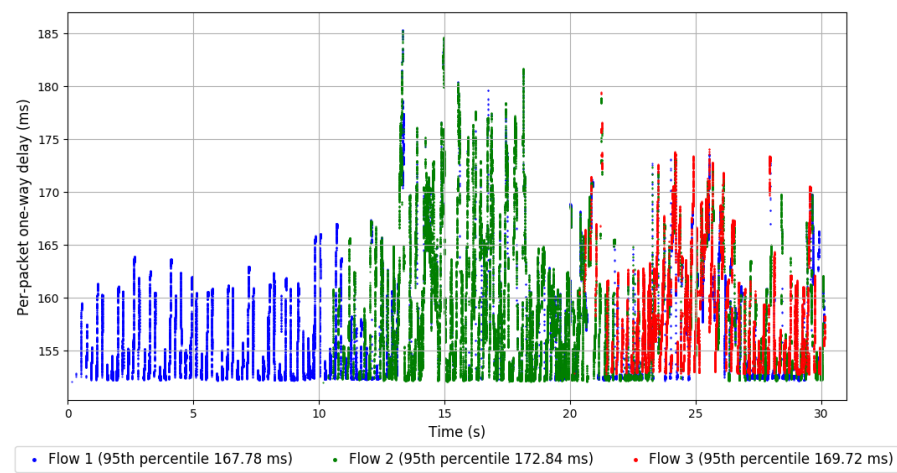
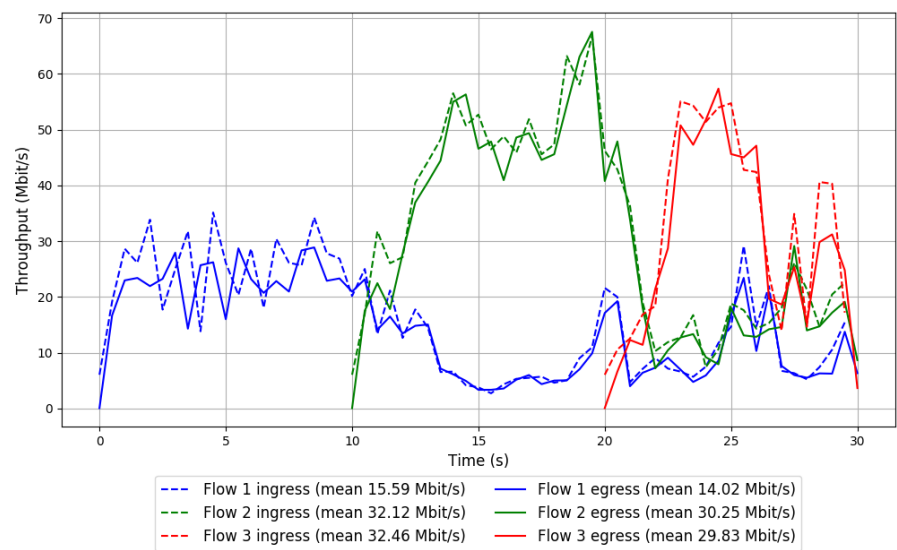
-- Flow 3:

Average throughput: 29.83 Mbit/s

95th percentile per-packet one-way delay: 169.722 ms

Loss rate: 8.04%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-04-17 18:21:45

End at: 2018-04-17 18:22:15

Local clock offset: 4.423 ms

Remote clock offset: 3.733 ms

Below is generated by plot.py at 2018-04-17 21:11:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 33.13 Mbit/s

95th percentile per-packet one-way delay: 162.488 ms

Loss rate: 8.11%

-- Flow 1:

Average throughput: 17.48 Mbit/s

95th percentile per-packet one-way delay: 161.623 ms

Loss rate: 8.39%

-- Flow 2:

Average throughput: 14.80 Mbit/s

95th percentile per-packet one-way delay: 162.753 ms

Loss rate: 8.05%

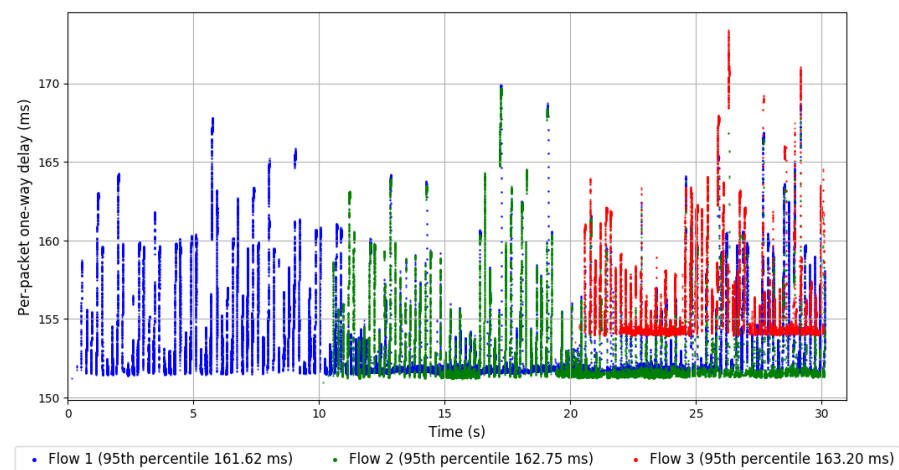
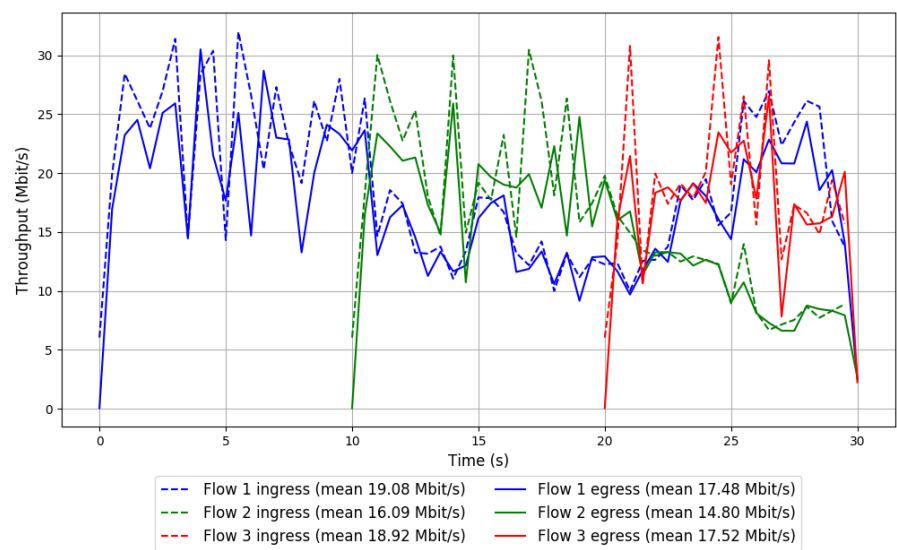
-- Flow 3:

Average throughput: 17.52 Mbit/s

95th percentile per-packet one-way delay: 163.203 ms

Loss rate: 7.36%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-04-17 18:44:45

End at: 2018-04-17 18:45:15

Local clock offset: 5.924 ms

Remote clock offset: 1.633 ms

Below is generated by plot.py at 2018-04-17 21:11:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 46.31 Mbit/s

95th percentile per-packet one-way delay: 168.631 ms

Loss rate: 6.71%

-- Flow 1:

Average throughput: 35.31 Mbit/s

95th percentile per-packet one-way delay: 167.567 ms

Loss rate: 5.46%

-- Flow 2:

Average throughput: 11.32 Mbit/s

95th percentile per-packet one-way delay: 171.366 ms

Loss rate: 9.66%

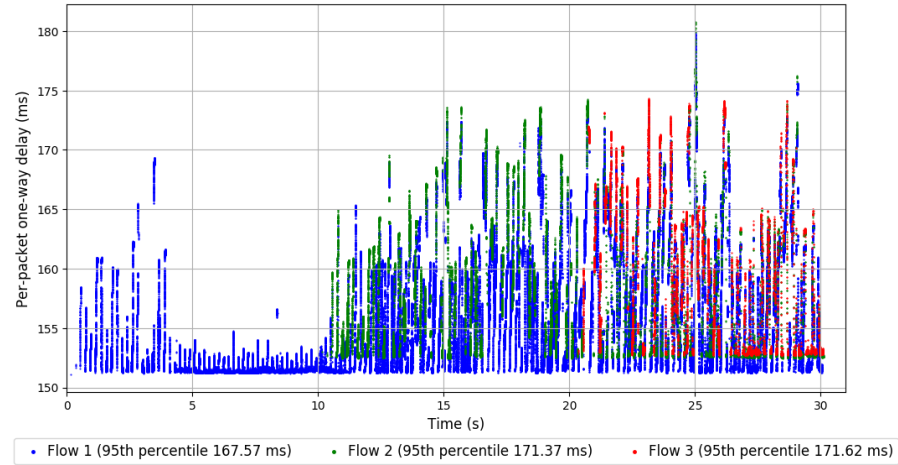
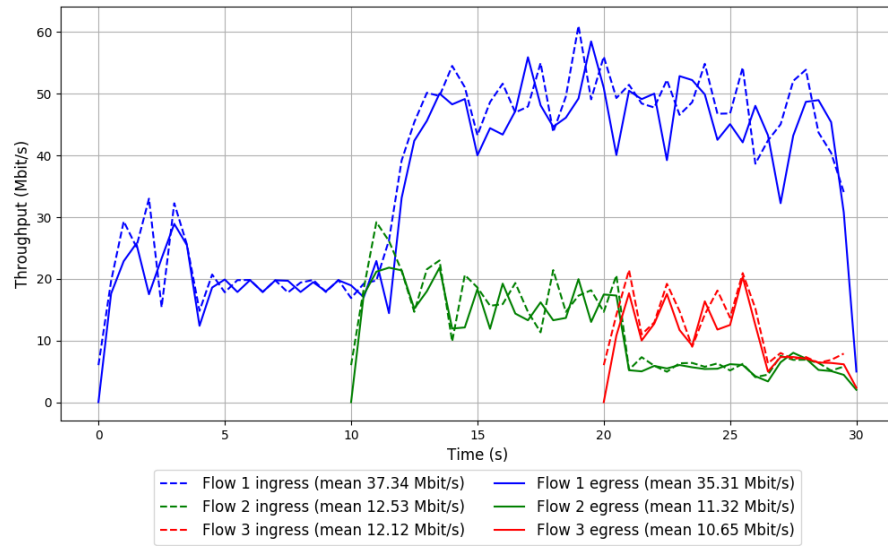
-- Flow 3:

Average throughput: 10.65 Mbit/s

95th percentile per-packet one-way delay: 171.618 ms

Loss rate: 12.15%

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

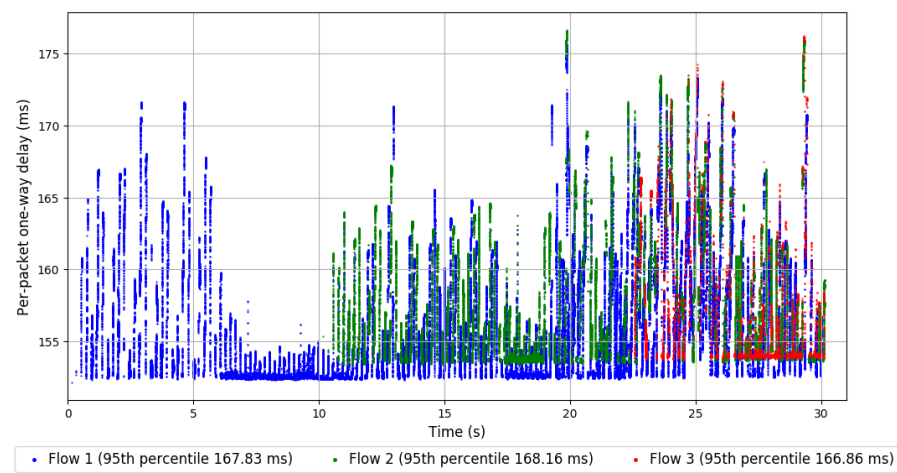
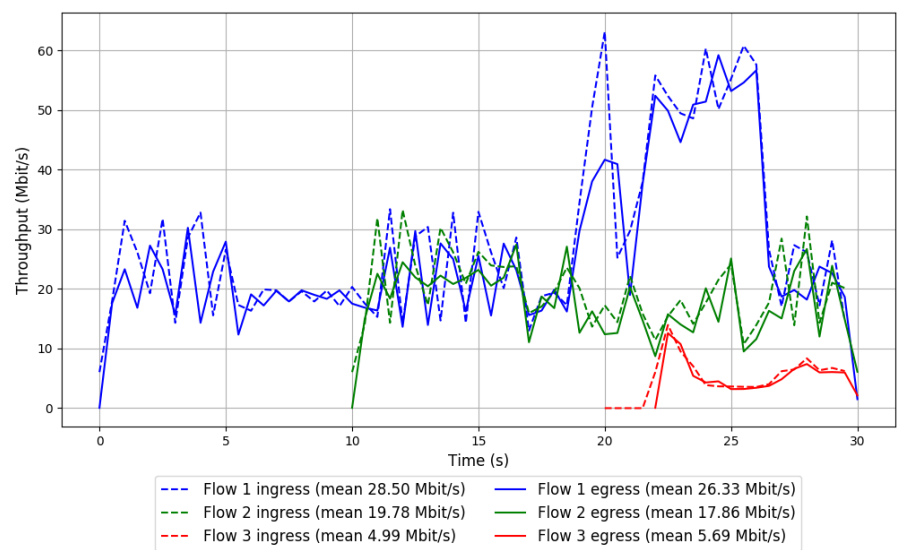


Run 6: Statistics of TaoVA-100x

Start at: 2018-04-17 19:07:51
End at: 2018-04-17 19:08:21
Local clock offset: 7.75 ms
Remote clock offset: -0.276 ms

Below is generated by plot.py at 2018-04-17 21:11:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 39.64 Mbit/s
95th percentile per-packet one-way delay: 167.908 ms
Loss rate: 8.30%
-- Flow 1:
Average throughput: 26.33 Mbit/s
95th percentile per-packet one-way delay: 167.830 ms
Loss rate: 7.60%
-- Flow 2:
Average throughput: 17.86 Mbit/s
95th percentile per-packet one-way delay: 168.156 ms
Loss rate: 9.72%
-- Flow 3:
Average throughput: 5.69 Mbit/s
95th percentile per-packet one-way delay: 166.859 ms
Loss rate: 9.08%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-04-17 19:30:46

End at: 2018-04-17 19:31:16

Local clock offset: 11.563 ms

Remote clock offset: 0.5 ms

Below is generated by plot.py at 2018-04-17 21:11:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 37.13 Mbit/s

95th percentile per-packet one-way delay: 166.390 ms

Loss rate: 8.43%

-- Flow 1:

Average throughput: 16.22 Mbit/s

95th percentile per-packet one-way delay: 163.539 ms

Loss rate: 5.84%

-- Flow 2:

Average throughput: 17.93 Mbit/s

95th percentile per-packet one-way delay: 168.017 ms

Loss rate: 10.44%

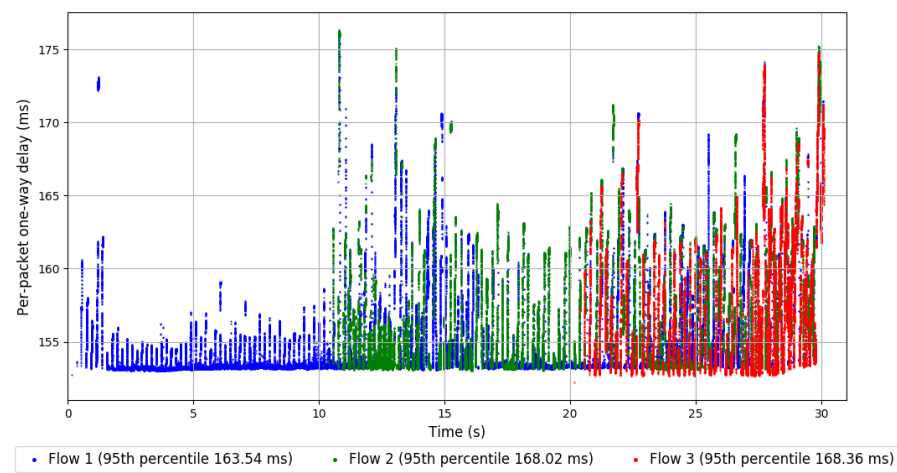
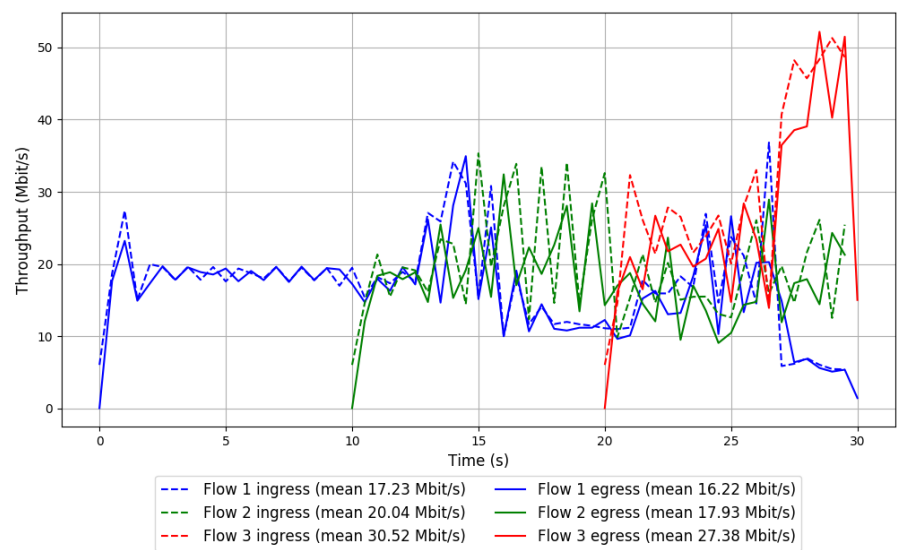
-- Flow 3:

Average throughput: 27.38 Mbit/s

95th percentile per-packet one-way delay: 168.359 ms

Loss rate: 10.20%

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

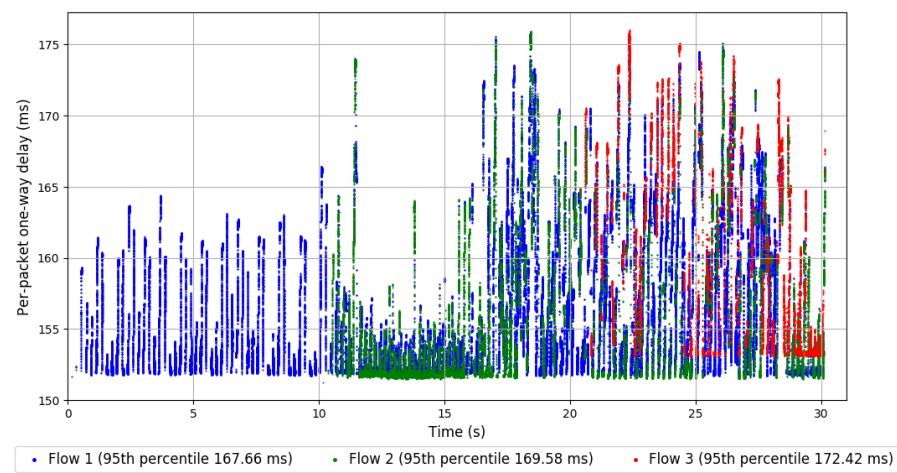
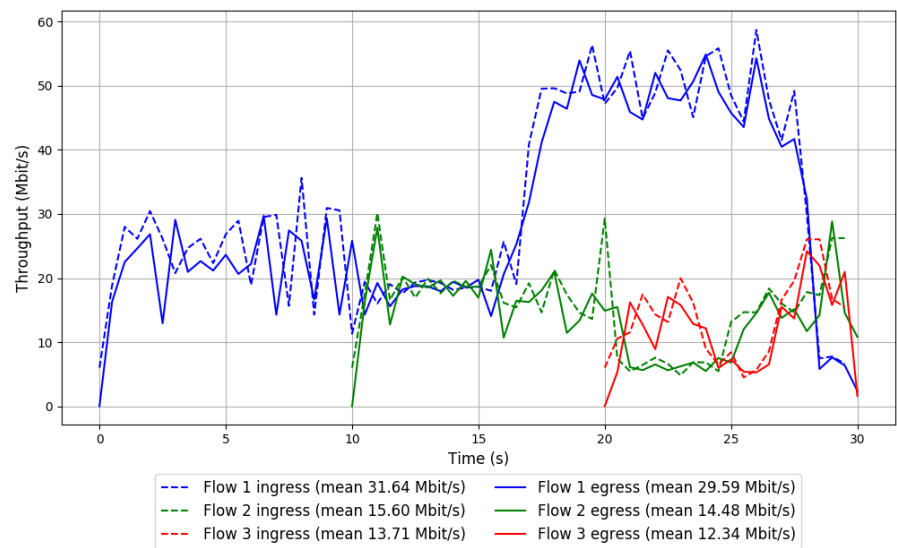


Run 8: Statistics of TaoVA-100x

Start at: 2018-04-17 19:53:41
End at: 2018-04-17 19:54:11
Local clock offset: 4.077 ms
Remote clock offset: -1.362 ms

Below is generated by plot.py at 2018-04-17 21:12:11
Datalink statistics
-- Total of 3 flows:
Average throughput: 43.33 Mbit/s
95th percentile per-packet one-way delay: 168.968 ms
Loss rate: 6.93%
-- Flow 1:
Average throughput: 29.59 Mbit/s
95th percentile per-packet one-way delay: 167.665 ms
Loss rate: 6.43%
-- Flow 2:
Average throughput: 14.48 Mbit/s
95th percentile per-packet one-way delay: 169.583 ms
Loss rate: 7.13%
-- Flow 3:
Average throughput: 12.34 Mbit/s
95th percentile per-packet one-way delay: 172.422 ms
Loss rate: 9.90%

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

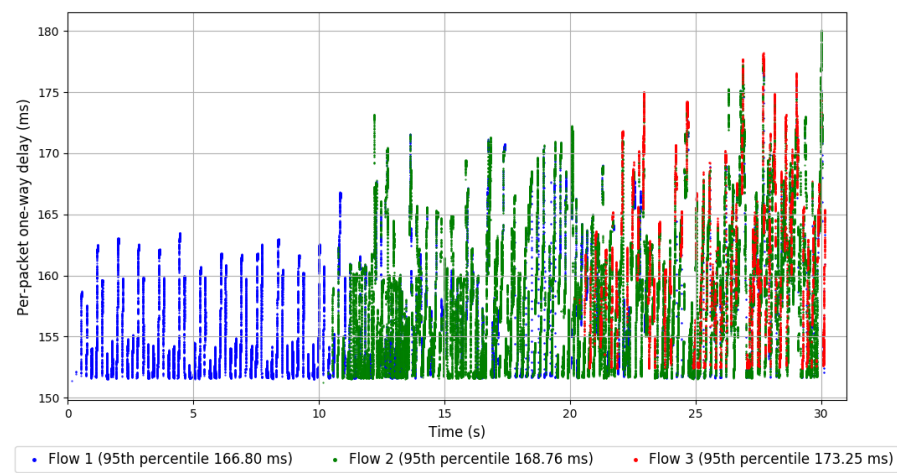
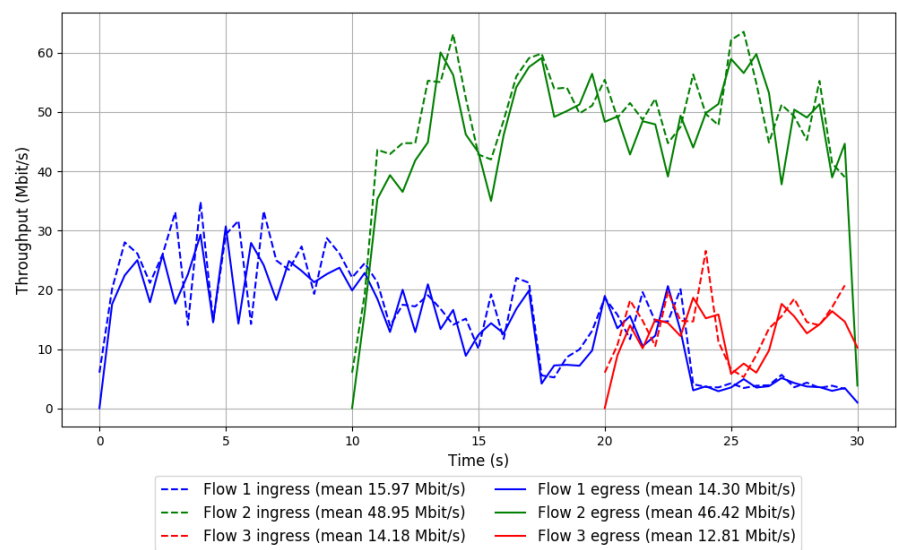


Run 9: Statistics of TaoVA-100x

Start at: 2018-04-17 20:16:31
End at: 2018-04-17 20:17:01
Local clock offset: 3.367 ms
Remote clock offset: -1.222 ms

Below is generated by plot.py at 2018-04-17 21:12:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 49.48 Mbit/s
95th percentile per-packet one-way delay: 169.137 ms
Loss rate: 7.11%
-- Flow 1:
Average throughput: 14.30 Mbit/s
95th percentile per-packet one-way delay: 166.797 ms
Loss rate: 10.44%
-- Flow 2:
Average throughput: 46.42 Mbit/s
95th percentile per-packet one-way delay: 168.758 ms
Loss rate: 5.12%
-- Flow 3:
Average throughput: 12.81 Mbit/s
95th percentile per-packet one-way delay: 173.251 ms
Loss rate: 9.61%

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



Run 10: Statistics of TaoVA-100x

Start at: 2018-04-17 20:39:45

End at: 2018-04-17 20:40:15

Local clock offset: 5.247 ms

Remote clock offset: 0.629 ms

Below is generated by plot.py at 2018-04-17 21:12:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 37.00 Mbit/s

95th percentile per-packet one-way delay: 168.312 ms

Loss rate: 8.24%

-- Flow 1:

Average throughput: 17.81 Mbit/s

95th percentile per-packet one-way delay: 164.928 ms

Loss rate: 9.48%

-- Flow 2:

Average throughput: 23.23 Mbit/s

95th percentile per-packet one-way delay: 169.201 ms

Loss rate: 6.48%

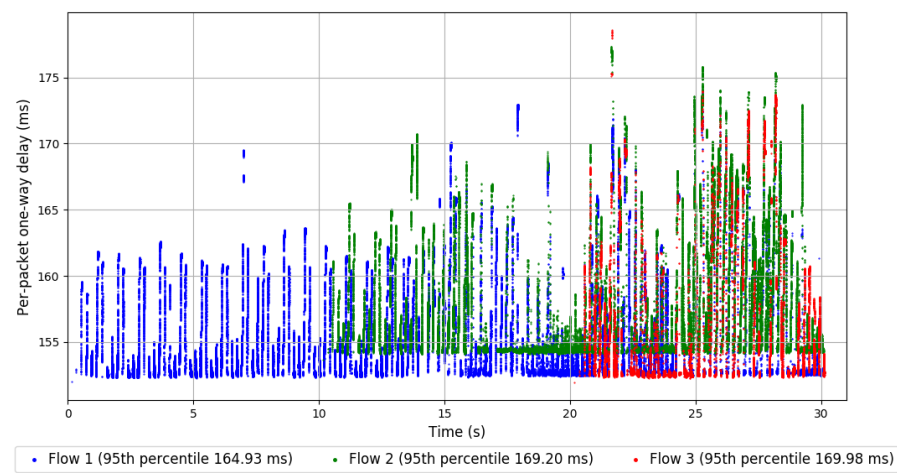
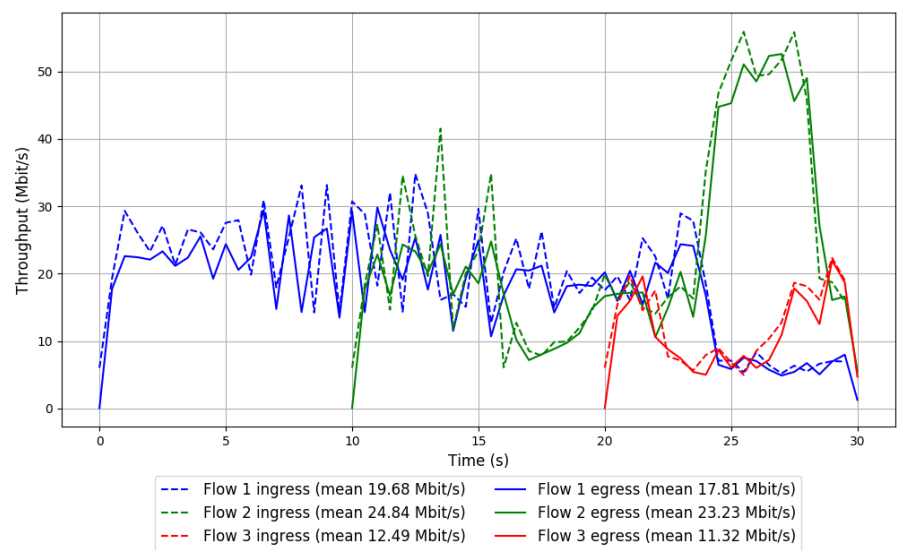
-- Flow 3:

Average throughput: 11.32 Mbit/s

95th percentile per-packet one-way delay: 169.982 ms

Loss rate: 9.36%

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

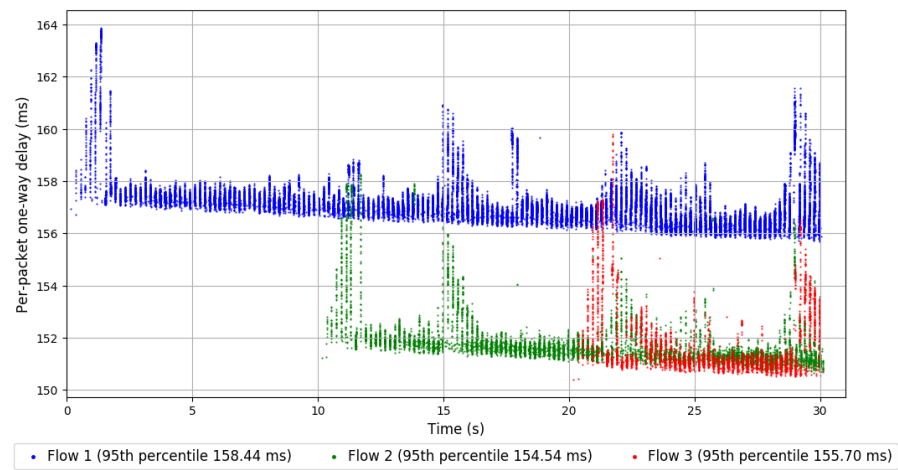
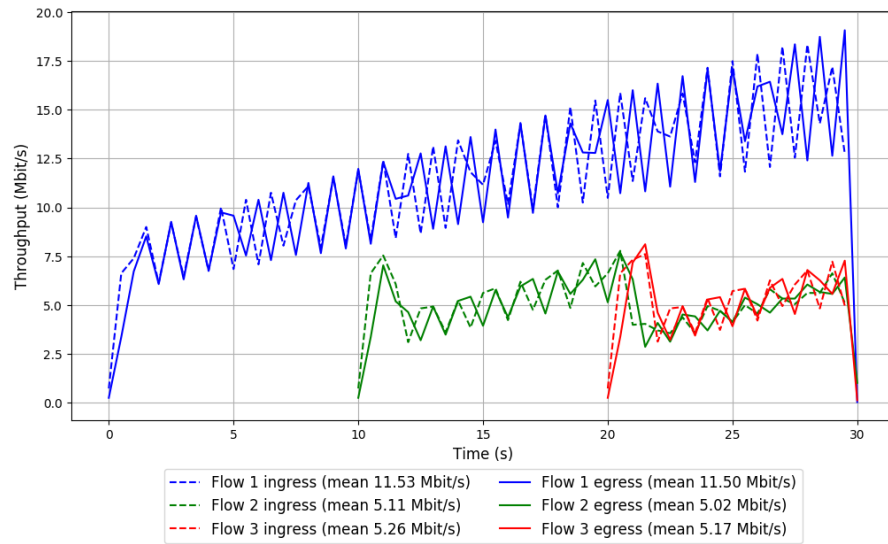


Run 1: Statistics of TCP Vegas

Start at: 2018-04-17 17:14:32
End at: 2018-04-17 17:15:02
Local clock offset: 5.403 ms
Remote clock offset: -5.273 ms

Below is generated by plot.py at 2018-04-17 21:12:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 16.52 Mbit/s
95th percentile per-packet one-way delay: 158.000 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 11.50 Mbit/s
95th percentile per-packet one-way delay: 158.439 ms
Loss rate: 0.27%
-- Flow 2:
Average throughput: 5.02 Mbit/s
95th percentile per-packet one-way delay: 154.542 ms
Loss rate: 1.79%
-- Flow 3:
Average throughput: 5.17 Mbit/s
95th percentile per-packet one-way delay: 155.699 ms
Loss rate: 1.79%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-04-17 17:37:31

End at: 2018-04-17 17:38:01

Local clock offset: 7.185 ms

Remote clock offset: 6.103 ms

Below is generated by plot.py at 2018-04-17 21:12:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 12.05 Mbit/s

95th percentile per-packet one-way delay: 157.841 ms

Loss rate: 0.53%

-- Flow 1:

Average throughput: 7.13 Mbit/s

95th percentile per-packet one-way delay: 155.561 ms

Loss rate: 0.56%

-- Flow 2:

Average throughput: 4.76 Mbit/s

95th percentile per-packet one-way delay: 153.943 ms

Loss rate: 0.43%

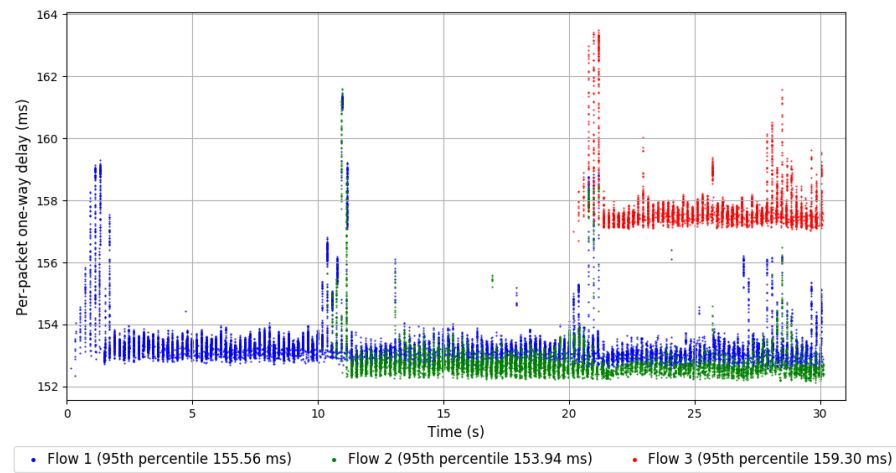
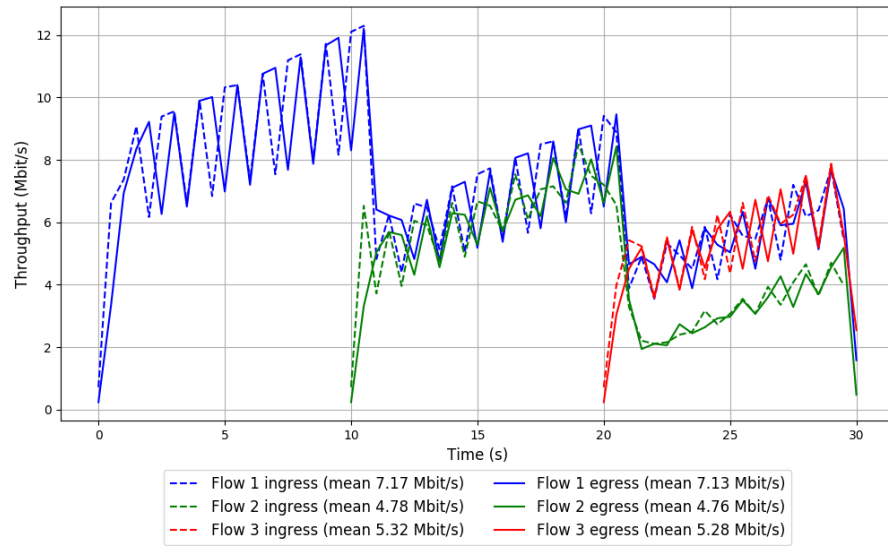
-- Flow 3:

Average throughput: 5.28 Mbit/s

95th percentile per-packet one-way delay: 159.296 ms

Loss rate: 0.59%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

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

End at: 2018-04-17 18:00:57

Local clock offset: 6.51 ms

Remote clock offset: 2.148 ms

Below is generated by plot.py at 2018-04-17 21:12:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 13.23 Mbit/s

95th percentile per-packet one-way delay: 162.709 ms

Loss rate: 0.91%

-- Flow 1:

Average throughput: 6.78 Mbit/s

95th percentile per-packet one-way delay: 161.167 ms

Loss rate: 0.47%

-- Flow 2:

Average throughput: 6.45 Mbit/s

95th percentile per-packet one-way delay: 161.501 ms

Loss rate: 1.22%

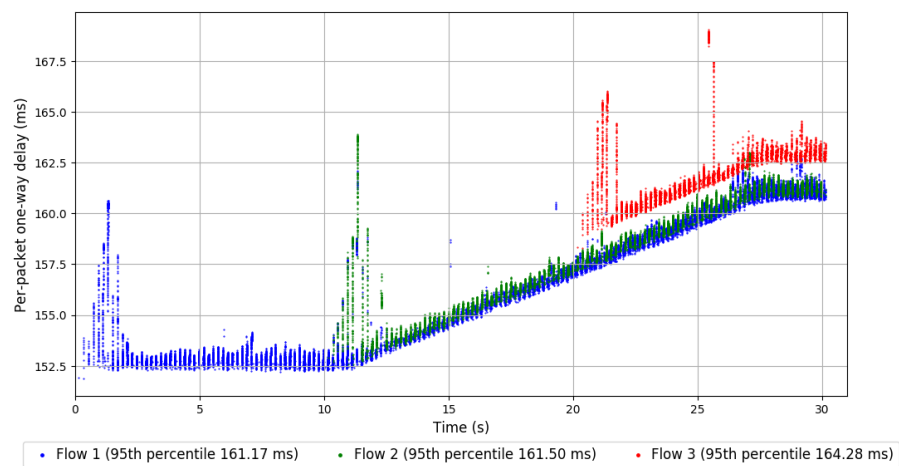
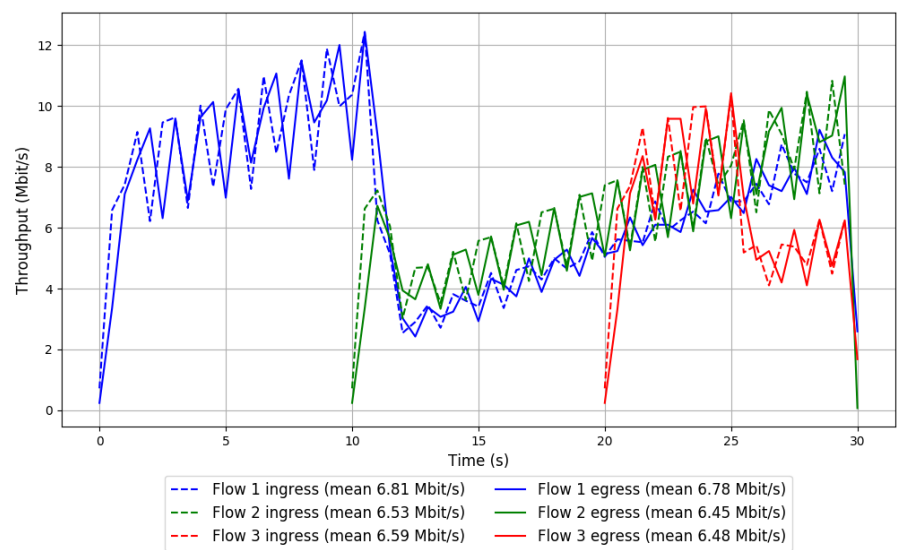
-- Flow 3:

Average throughput: 6.48 Mbit/s

95th percentile per-packet one-way delay: 164.283 ms

Loss rate: 1.67%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-04-17 18:23:06

End at: 2018-04-17 18:23:36

Local clock offset: 4.28 ms

Remote clock offset: 3.335 ms

Below is generated by plot.py at 2018-04-17 21:12:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 21.66 Mbit/s

95th percentile per-packet one-way delay: 155.967 ms

Loss rate: 0.44%

-- Flow 1:

Average throughput: 11.85 Mbit/s

95th percentile per-packet one-way delay: 155.875 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 10.57 Mbit/s

95th percentile per-packet one-way delay: 154.423 ms

Loss rate: 0.46%

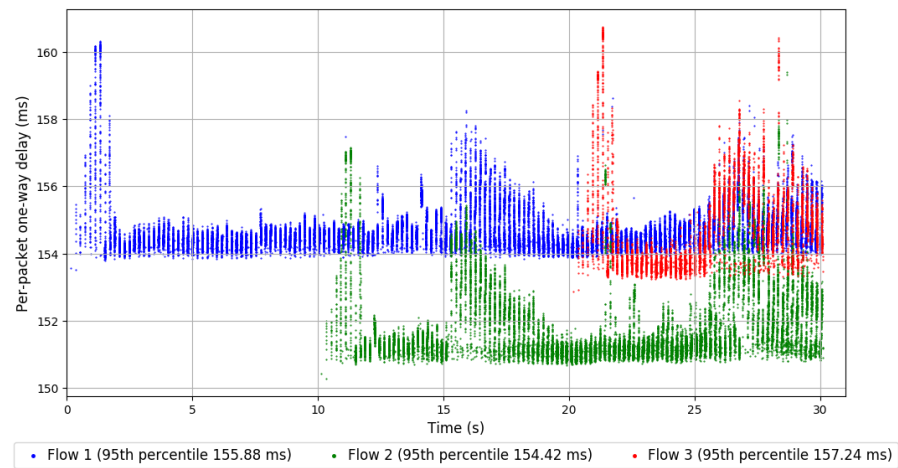
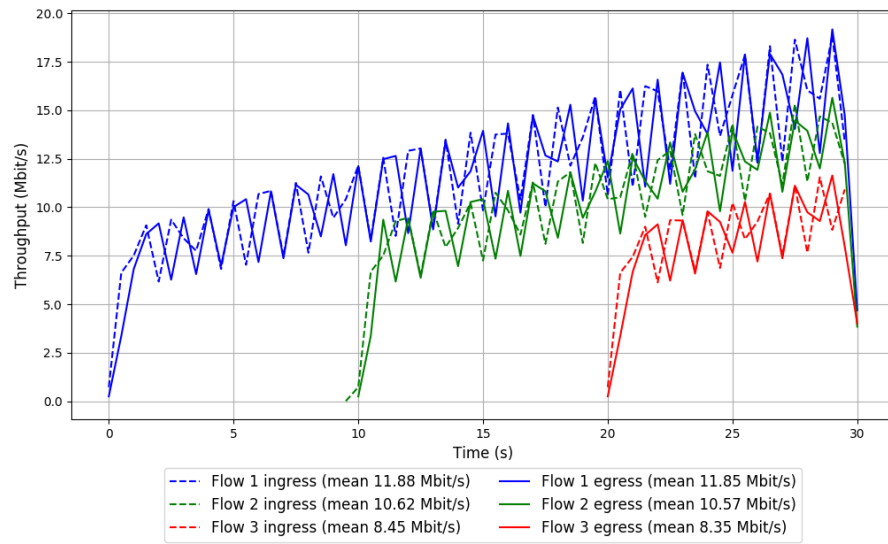
-- Flow 3:

Average throughput: 8.35 Mbit/s

95th percentile per-packet one-way delay: 157.239 ms

Loss rate: 1.14%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-04-17 18:46:07

End at: 2018-04-17 18:46:37

Local clock offset: 5.993 ms

Remote clock offset: 1.605 ms

Below is generated by plot.py at 2018-04-17 21:12:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 14.26 Mbit/s

95th percentile per-packet one-way delay: 156.098 ms

Loss rate: 0.70%

-- Flow 1:

Average throughput: 7.36 Mbit/s

95th percentile per-packet one-way delay: 155.999 ms

Loss rate: 0.52%

-- Flow 2:

Average throughput: 6.23 Mbit/s

95th percentile per-packet one-way delay: 155.946 ms

Loss rate: 0.80%

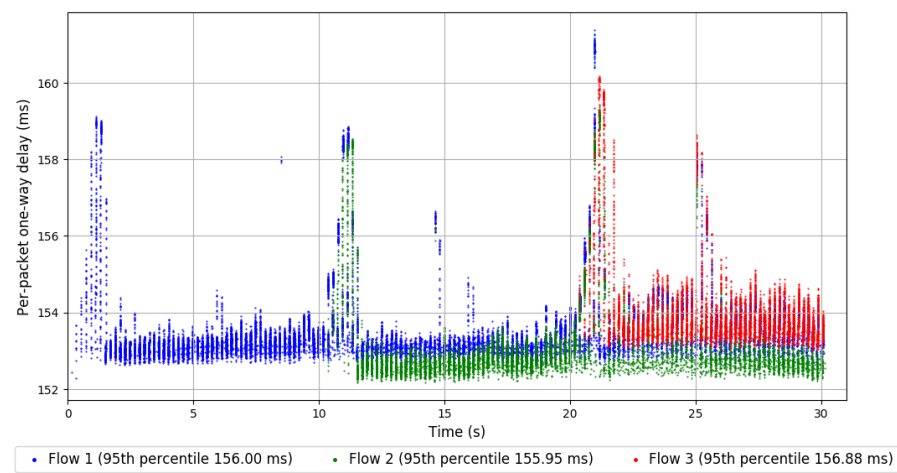
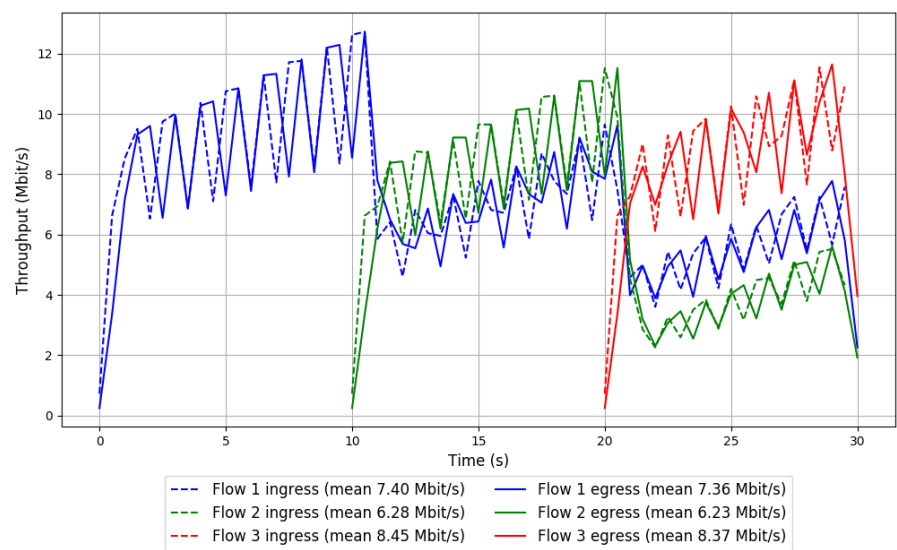
-- Flow 3:

Average throughput: 8.37 Mbit/s

95th percentile per-packet one-way delay: 156.883 ms

Loss rate: 1.02%

Run 5: Report of TCP Vegas — Data Link

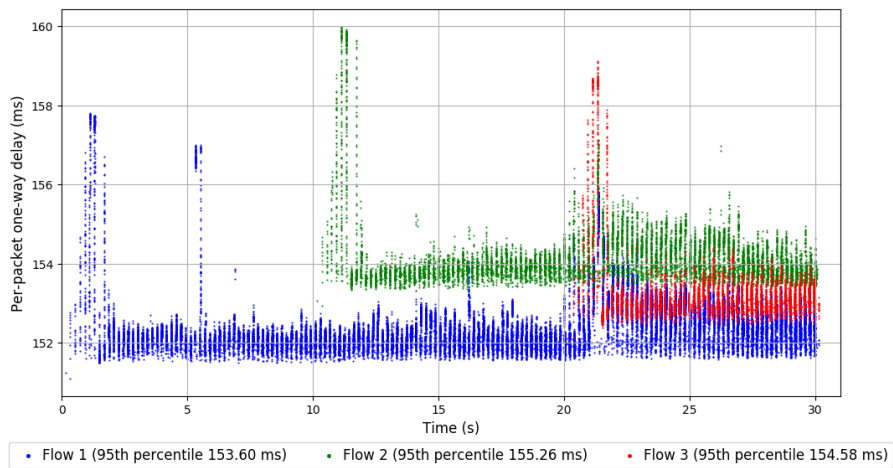
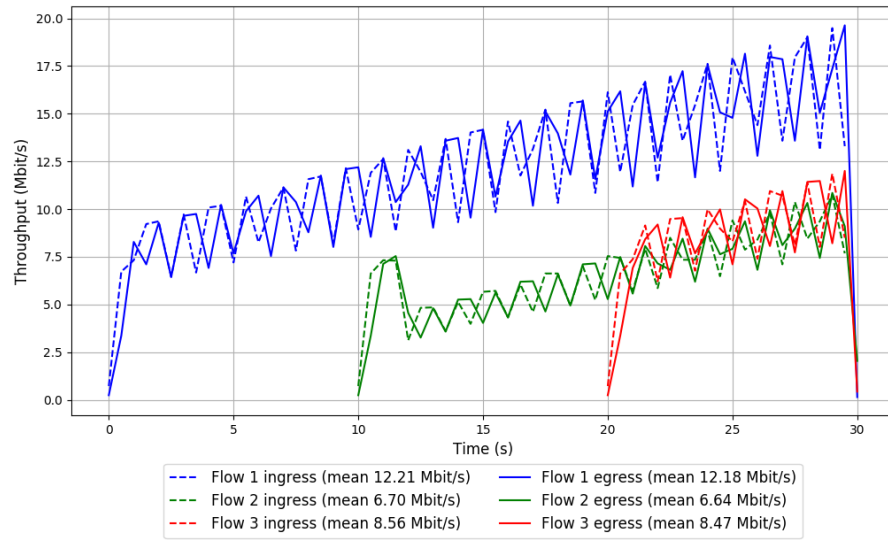


Run 6: Statistics of TCP Vegas

Start at: 2018-04-17 19:09:12
End at: 2018-04-17 19:09:42
Local clock offset: 8.281 ms
Remote clock offset: -0.402 ms

Below is generated by plot.py at 2018-04-17 21:12:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 19.40 Mbit/s
95th percentile per-packet one-way delay: 154.656 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 12.18 Mbit/s
95th percentile per-packet one-way delay: 153.601 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 6.64 Mbit/s
95th percentile per-packet one-way delay: 155.264 ms
Loss rate: 0.82%
-- Flow 3:
Average throughput: 8.47 Mbit/s
95th percentile per-packet one-way delay: 154.582 ms
Loss rate: 1.08%

Run 6: Report of TCP Vegas — Data Link

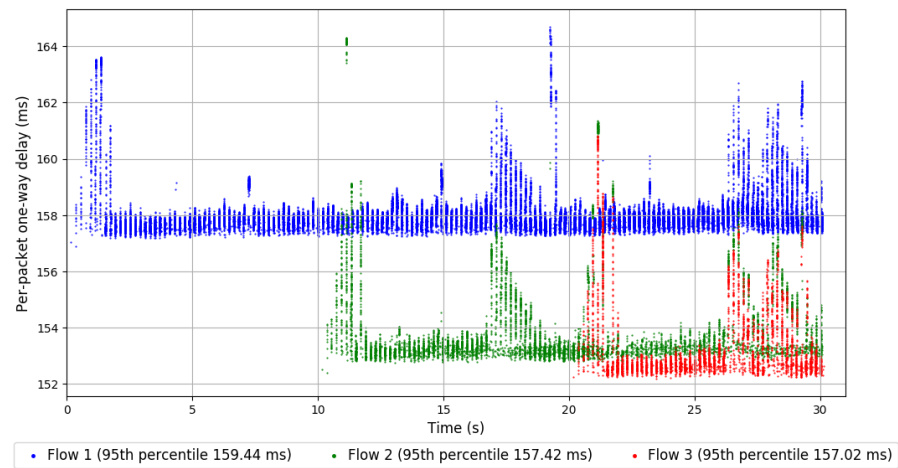
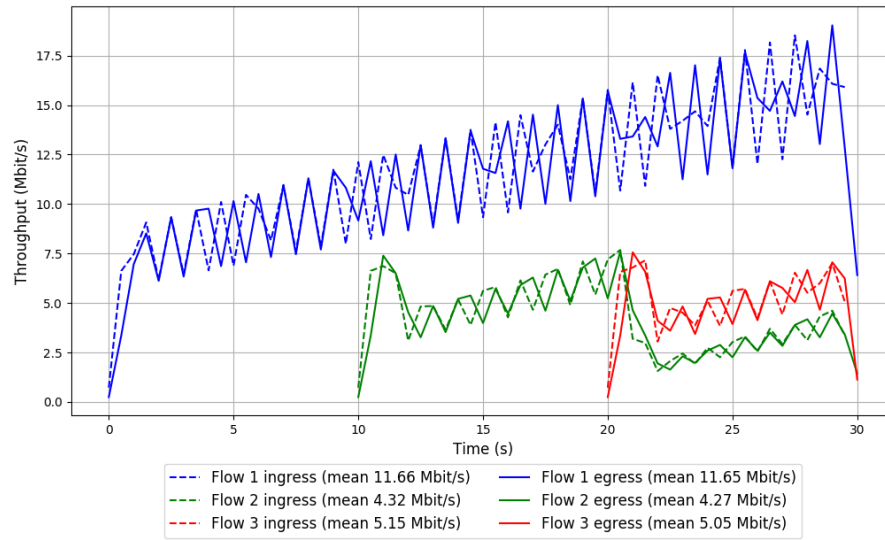


Run 7: Statistics of TCP Vegas

Start at: 2018-04-17 19:32:07
End at: 2018-04-17 19:32:37
Local clock offset: 11.903 ms
Remote clock offset: -1.051 ms

Below is generated by plot.py at 2018-04-17 21:12:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 16.15 Mbit/s
95th percentile per-packet one-way delay: 159.173 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 11.65 Mbit/s
95th percentile per-packet one-way delay: 159.444 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 4.27 Mbit/s
95th percentile per-packet one-way delay: 157.416 ms
Loss rate: 1.07%
-- Flow 3:
Average throughput: 5.05 Mbit/s
95th percentile per-packet one-way delay: 157.023 ms
Loss rate: 1.95%

Run 7: Report of TCP Vegas — Data Link

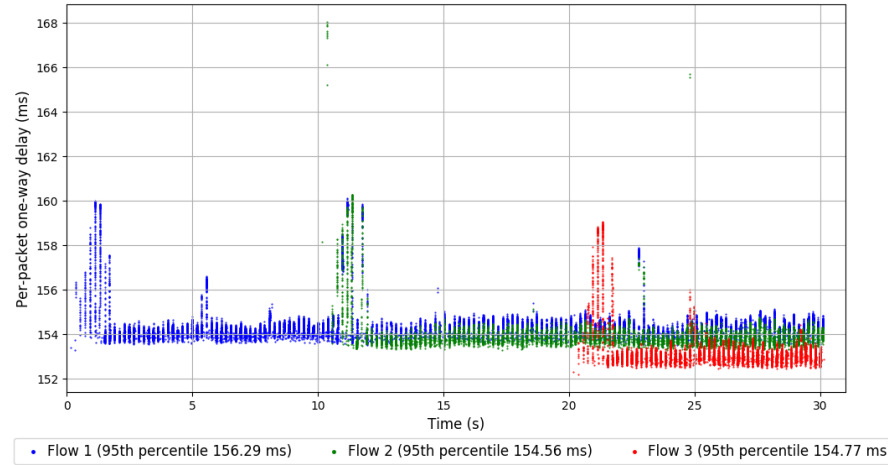
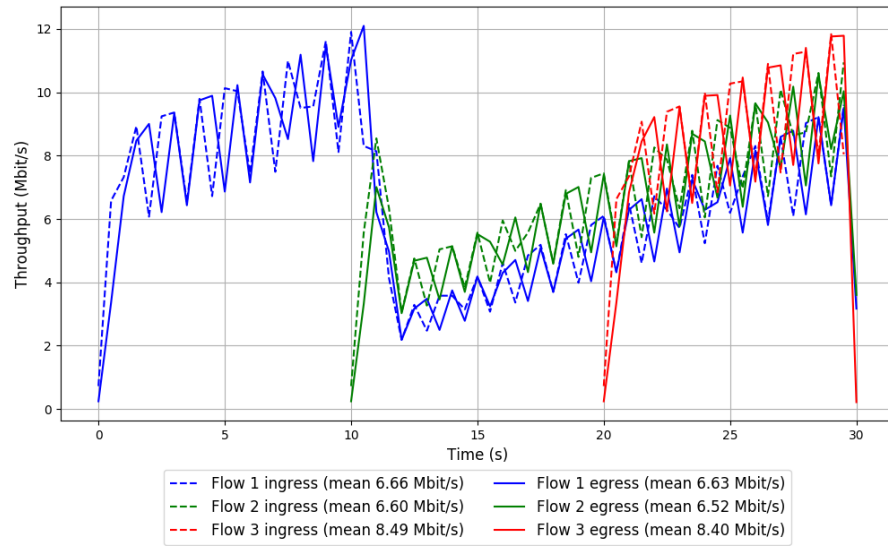


Run 8: Statistics of TCP Vegas

Start at: 2018-04-17 19:55:03
End at: 2018-04-17 19:55:33
Local clock offset: 3.801 ms
Remote clock offset: -1.506 ms

Below is generated by plot.py at 2018-04-17 21:12:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 13.75 Mbit/s
95th percentile per-packet one-way delay: 155.343 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 6.63 Mbit/s
95th percentile per-packet one-way delay: 156.292 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 6.52 Mbit/s
95th percentile per-packet one-way delay: 154.557 ms
Loss rate: 1.28%
-- Flow 3:
Average throughput: 8.40 Mbit/s
95th percentile per-packet one-way delay: 154.773 ms
Loss rate: 1.08%

Run 8: Report of TCP Vegas — Data Link

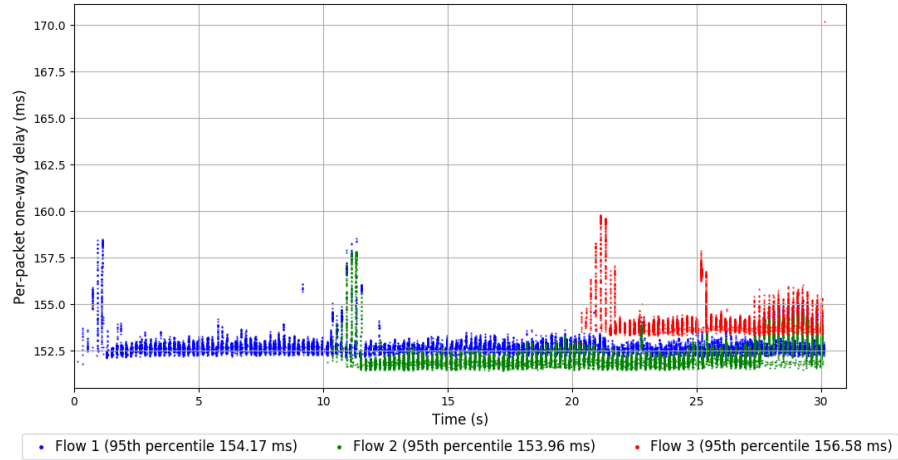
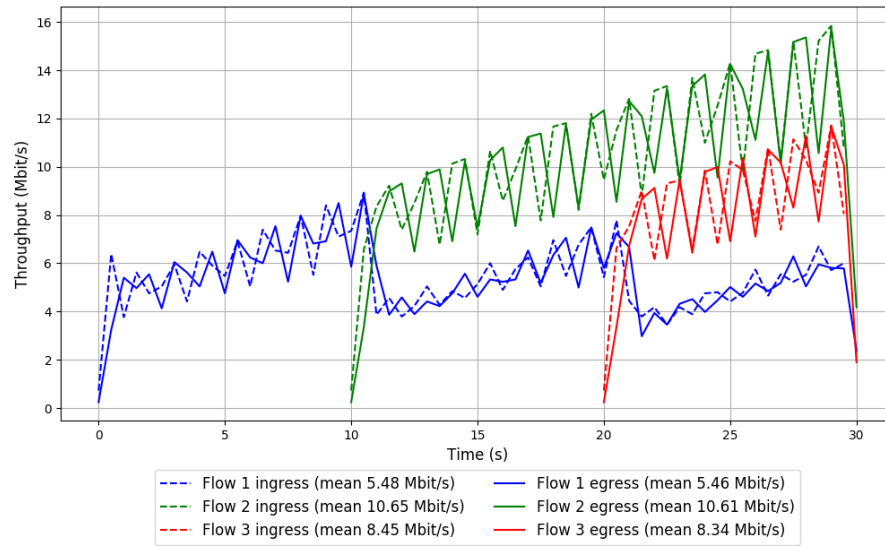


Run 9: Statistics of TCP Vegas

Start at: 2018-04-17 20:17:53
End at: 2018-04-17 20:18:23
Local clock offset: 3.723 ms
Remote clock offset: -1.252 ms

Below is generated by plot.py at 2018-04-17 21:12:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 15.27 Mbit/s
95th percentile per-packet one-way delay: 154.593 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 5.46 Mbit/s
95th percentile per-packet one-way delay: 154.172 ms
Loss rate: 0.27%
-- Flow 2:
Average throughput: 10.61 Mbit/s
95th percentile per-packet one-way delay: 153.964 ms
Loss rate: 0.42%
-- Flow 3:
Average throughput: 8.34 Mbit/s
95th percentile per-packet one-way delay: 156.583 ms
Loss rate: 1.11%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-04-17 20:41:06

End at: 2018-04-17 20:41:36

Local clock offset: 5.354 ms

Remote clock offset: 0.29 ms

Below is generated by plot.py at 2018-04-17 21:12:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 18.12 Mbit/s

95th percentile per-packet one-way delay: 155.740 ms

Loss rate: 0.54%

-- Flow 1:

Average throughput: 8.39 Mbit/s

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

Loss rate: 0.44%

-- Flow 2:

Average throughput: 10.38 Mbit/s

95th percentile per-packet one-way delay: 155.925 ms

Loss rate: 0.43%

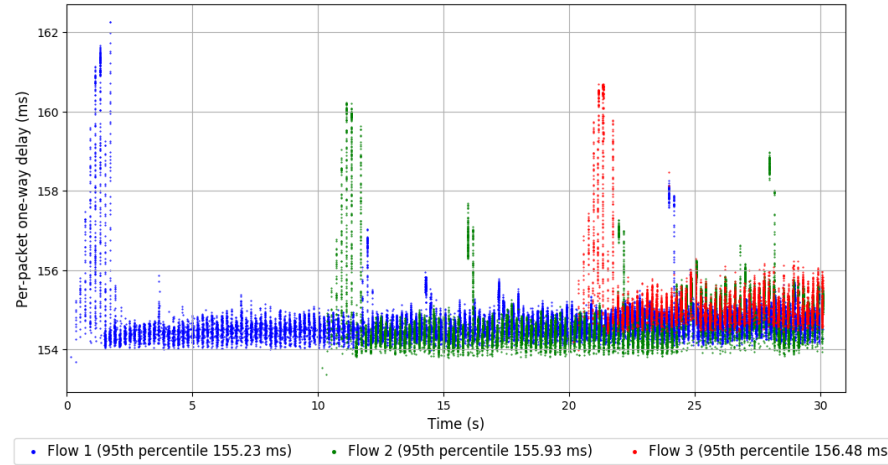
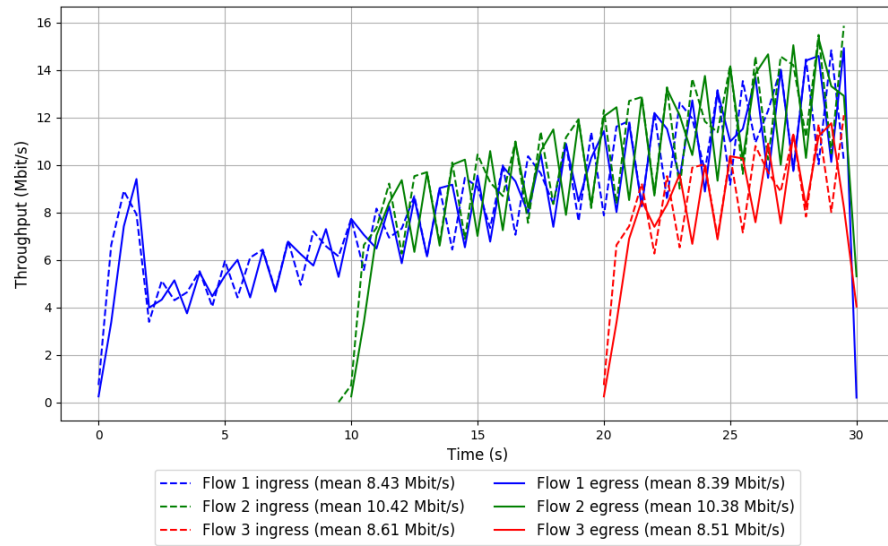
-- Flow 3:

Average throughput: 8.51 Mbit/s

95th percentile per-packet one-way delay: 156.476 ms

Loss rate: 1.11%

Run 10: Report of TCP Vegas — Data Link

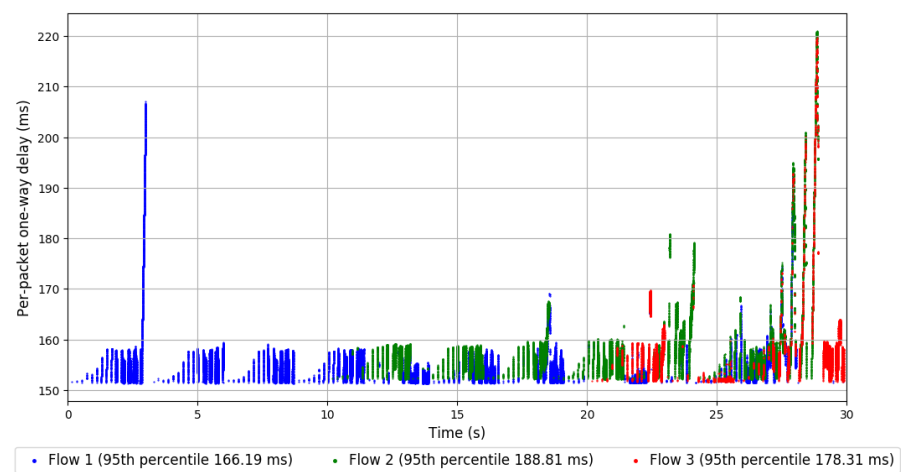
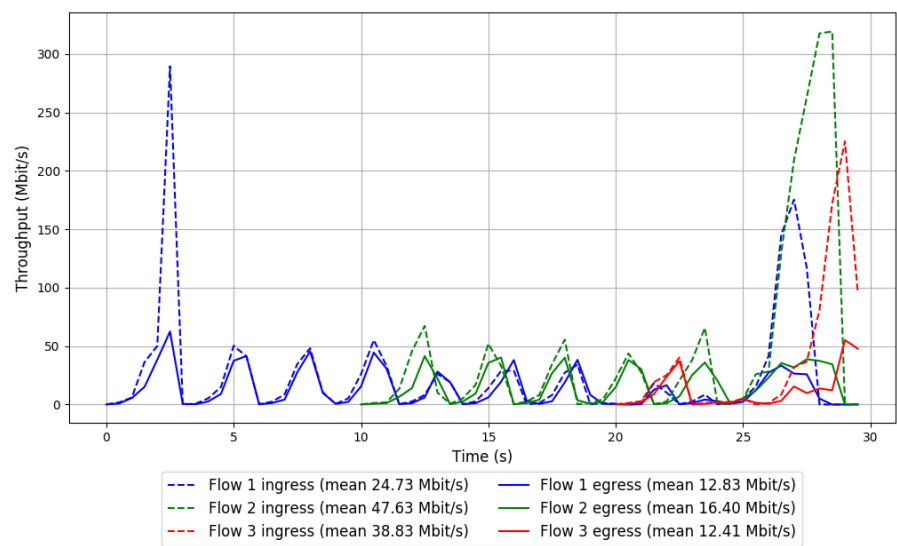


Run 1: Statistics of Verus

Start at: 2018-04-17 17:00:48
End at: 2018-04-17 17:01:18
Local clock offset: 5.951 ms
Remote clock offset: -2.583 ms

Below is generated by plot.py at 2018-04-17 21:12:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 27.73 Mbit/s
95th percentile per-packet one-way delay: 178.996 ms
Loss rate: 59.76%
-- Flow 1:
Average throughput: 12.83 Mbit/s
95th percentile per-packet one-way delay: 166.186 ms
Loss rate: 48.12%
-- Flow 2:
Average throughput: 16.40 Mbit/s
95th percentile per-packet one-way delay: 188.814 ms
Loss rate: 65.55%
-- Flow 3:
Average throughput: 12.41 Mbit/s
95th percentile per-packet one-way delay: 178.306 ms
Loss rate: 68.01%

Run 1: Report of Verus — Data Link

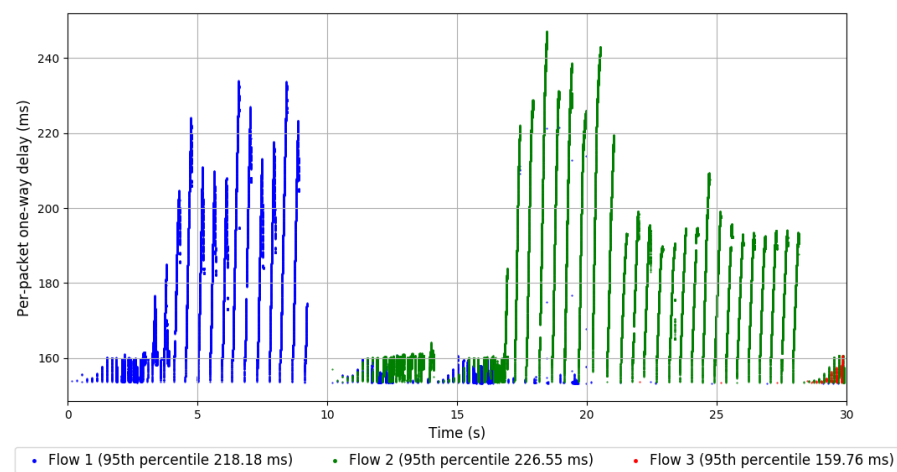
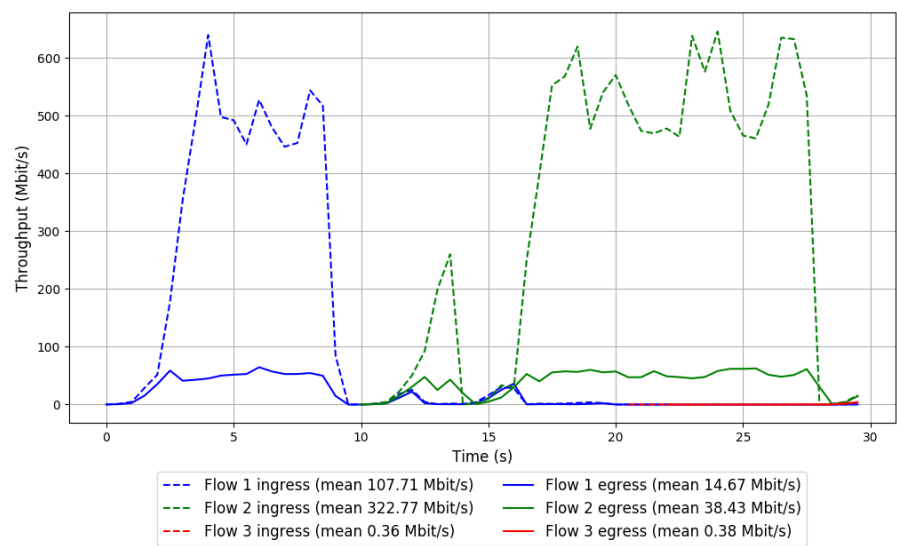


Run 2: Statistics of Verus

Start at: 2018-04-17 17:23:43
End at: 2018-04-17 17:24:13
Local clock offset: 6.052 ms
Remote clock offset: -3.203 ms

Below is generated by plot.py at 2018-04-17 21:14:11
Datalink statistics
-- Total of 3 flows:
Average throughput: 40.11 Mbit/s
95th percentile per-packet one-way delay: 223.361 ms
Loss rate: 87.52%
-- Flow 1:
Average throughput: 14.67 Mbit/s
95th percentile per-packet one-way delay: 218.180 ms
Loss rate: 86.47%
-- Flow 2:
Average throughput: 38.43 Mbit/s
95th percentile per-packet one-way delay: 226.552 ms
Loss rate: 88.09%
-- Flow 3:
Average throughput: 0.38 Mbit/s
95th percentile per-packet one-way delay: 159.758 ms
Loss rate: 7.46%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-04-17 17:46:42

End at: 2018-04-17 17:47:12

Local clock offset: 7.866 ms

Remote clock offset: 9.988 ms

Below is generated by plot.py at 2018-04-17 21:14:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 33.02 Mbit/s

95th percentile per-packet one-way delay: 217.600 ms

Loss rate: 71.32%

-- Flow 1:

Average throughput: 12.42 Mbit/s

95th percentile per-packet one-way delay: 161.514 ms

Loss rate: 33.62%

-- Flow 2:

Average throughput: 16.20 Mbit/s

95th percentile per-packet one-way delay: 200.276 ms

Loss rate: 54.29%

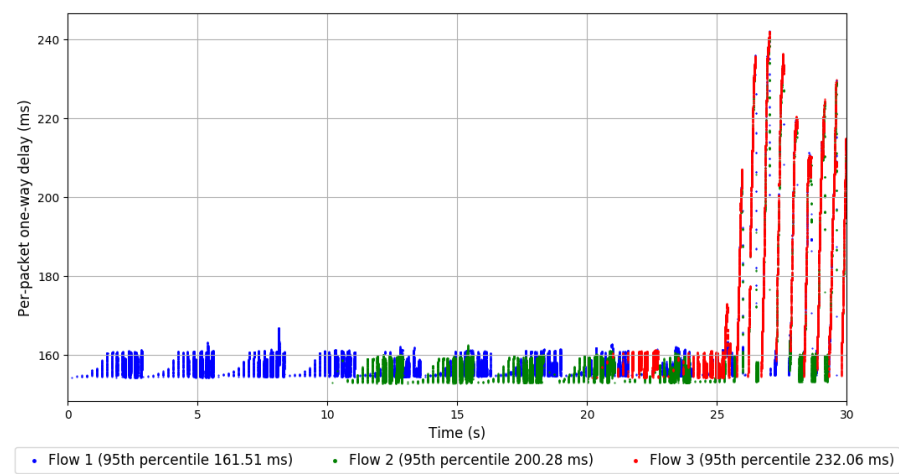
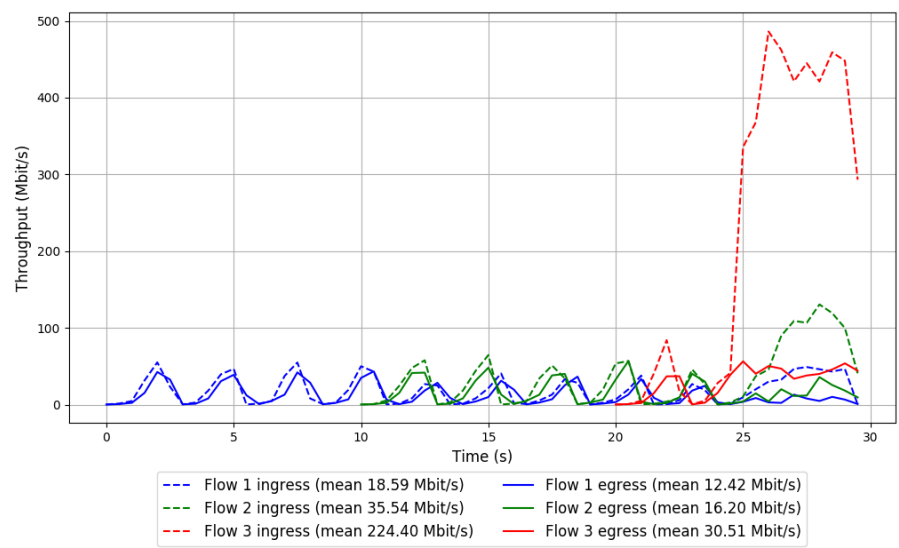
-- Flow 3:

Average throughput: 30.51 Mbit/s

95th percentile per-packet one-way delay: 232.062 ms

Loss rate: 86.32%

Run 3: Report of Verus — Data Link

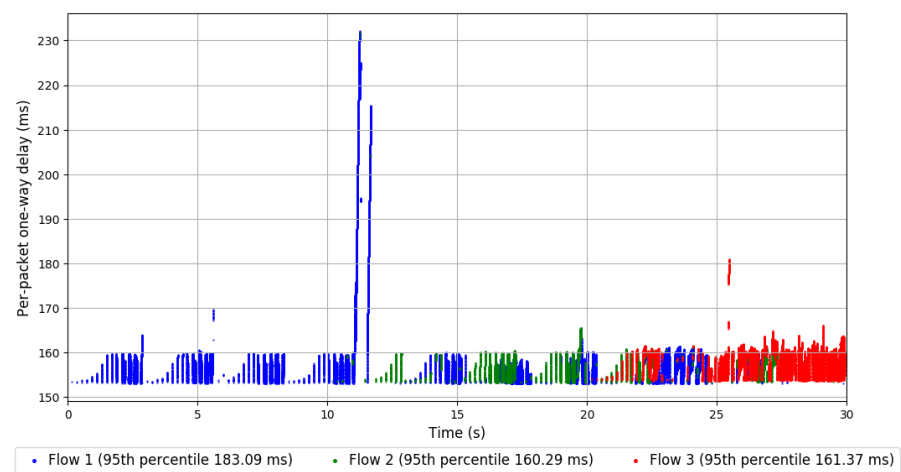
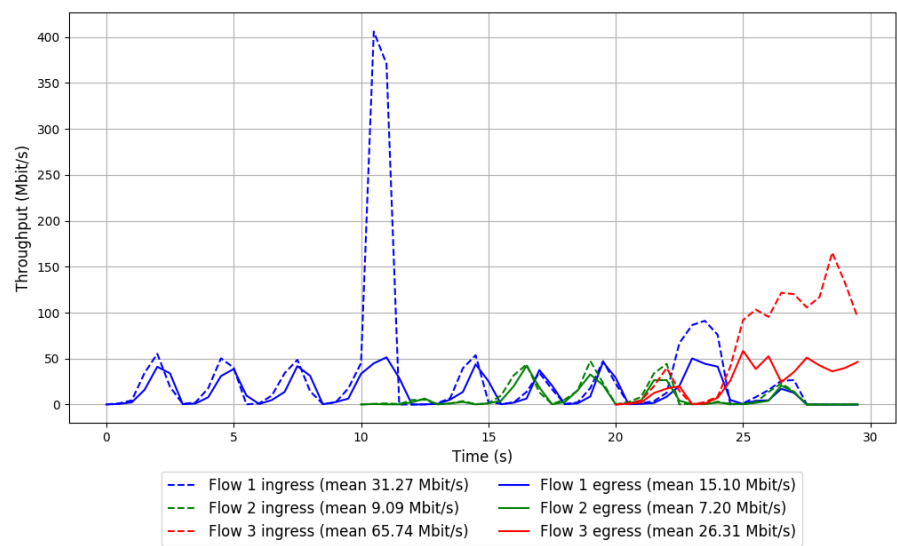


Run 4: Statistics of Verus

Start at: 2018-04-17 18:09:38
End at: 2018-04-17 18:10:08
Local clock offset: 5.139 ms
Remote clock offset: -6.871 ms

Below is generated by plot.py at 2018-04-17 21:14:11
Datalink statistics
-- Total of 3 flows:
Average throughput: 28.39 Mbit/s
95th percentile per-packet one-way delay: 163.243 ms
Loss rate: 51.64%
-- Flow 1:
Average throughput: 15.10 Mbit/s
95th percentile per-packet one-way delay: 183.095 ms
Loss rate: 51.70%
-- Flow 2:
Average throughput: 7.20 Mbit/s
95th percentile per-packet one-way delay: 160.295 ms
Loss rate: 21.64%
-- Flow 3:
Average throughput: 26.31 Mbit/s
95th percentile per-packet one-way delay: 161.365 ms
Loss rate: 59.95%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

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

End at: 2018-04-17 18:32:48

Local clock offset: 4.535 ms

Remote clock offset: 1.921 ms

Below is generated by plot.py at 2018-04-17 21:14:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 42.54 Mbit/s

95th percentile per-packet one-way delay: 257.923 ms

Loss rate: 88.65%

-- Flow 1:

Average throughput: 42.52 Mbit/s

95th percentile per-packet one-way delay: 257.924 ms

Loss rate: 88.65%

-- Flow 2:

Average throughput: 0.02 Mbit/s

95th percentile per-packet one-way delay: 215.755 ms

Loss rate: 60.47%

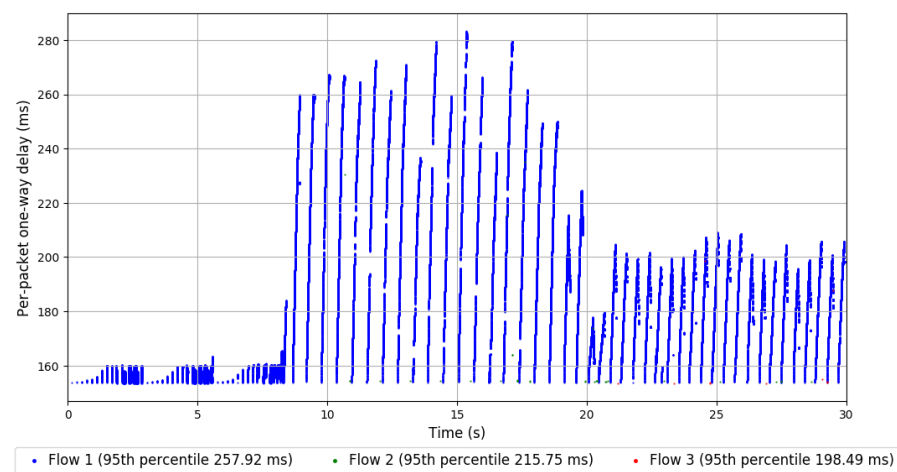
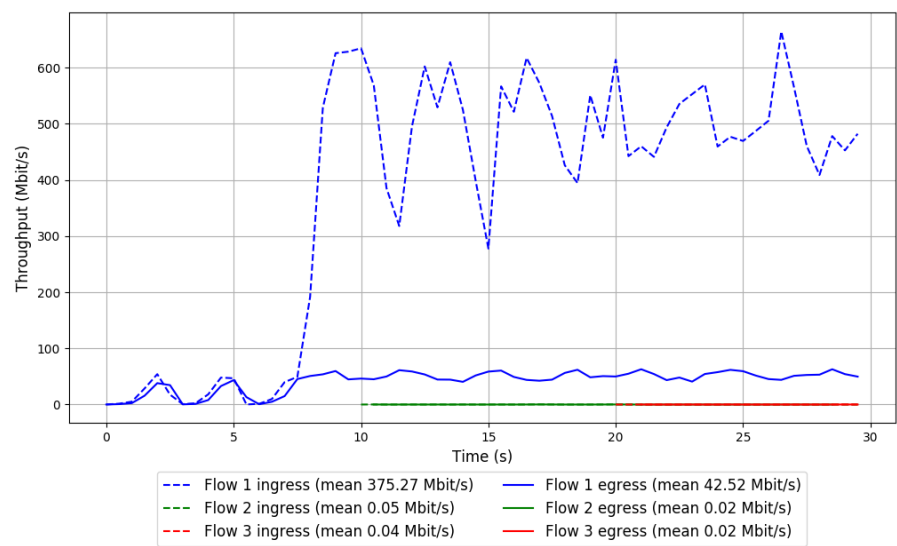
-- Flow 3:

Average throughput: 0.02 Mbit/s

95th percentile per-packet one-way delay: 198.485 ms

Loss rate: 63.33%

Run 5: Report of Verus — Data Link

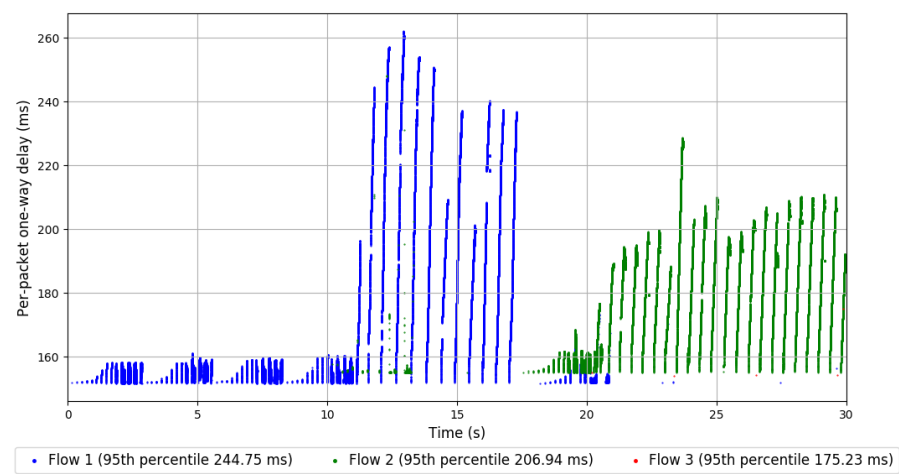
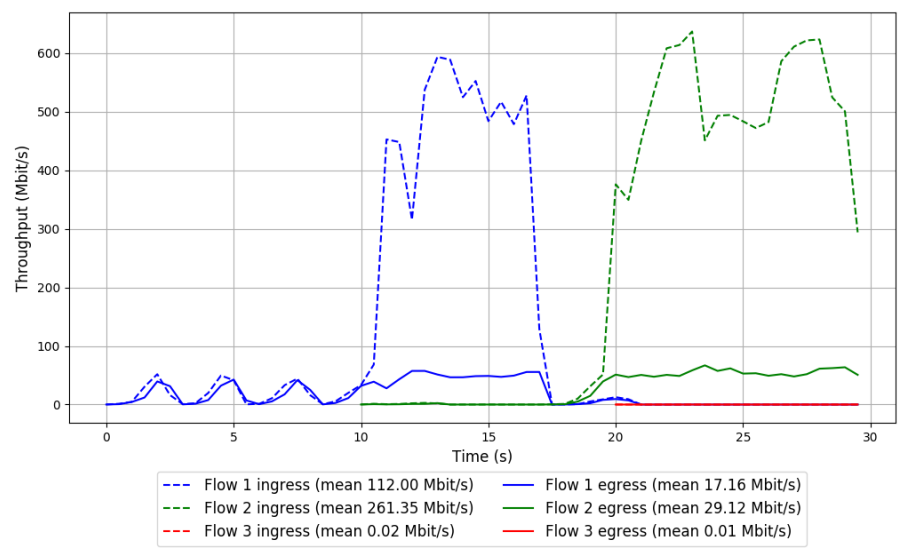


Run 6: Statistics of Verus

Start at: 2018-04-17 18:55:23
End at: 2018-04-17 18:55:53
Local clock offset: 6.044 ms
Remote clock offset: 1.77 ms

Below is generated by plot.py at 2018-04-17 21:14:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 36.40 Mbit/s
95th percentile per-packet one-way delay: 233.755 ms
Loss rate: 87.21%
-- Flow 1:
Average throughput: 17.16 Mbit/s
95th percentile per-packet one-way delay: 244.748 ms
Loss rate: 84.68%
-- Flow 2:
Average throughput: 29.12 Mbit/s
95th percentile per-packet one-way delay: 206.944 ms
Loss rate: 88.84%
-- Flow 3:
Average throughput: 0.01 Mbit/s
95th percentile per-packet one-way delay: 175.234 ms
Loss rate: 72.22%

Run 6: Report of Verus — Data Link

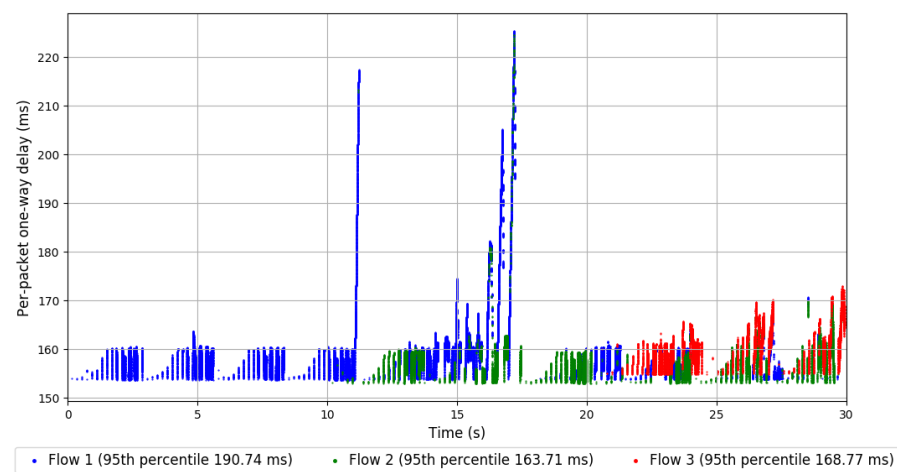
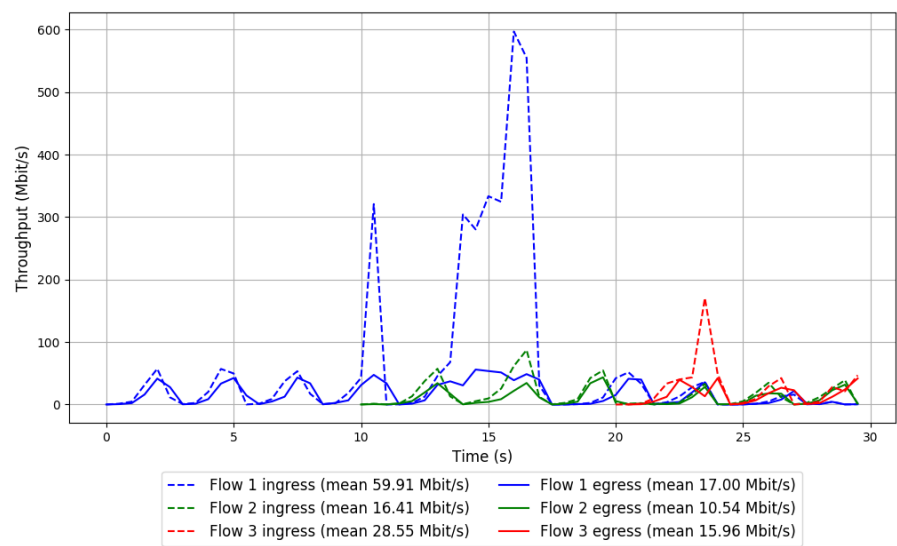


Run 7: Statistics of Verus

Start at: 2018-04-17 19:18:25
End at: 2018-04-17 19:18:55
Local clock offset: 10.222 ms
Remote clock offset: -0.845 ms

Below is generated by plot.py at 2018-04-17 21:14:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 28.95 Mbit/s
95th percentile per-packet one-way delay: 179.823 ms
Loss rate: 63.62%
-- Flow 1:
Average throughput: 17.00 Mbit/s
95th percentile per-packet one-way delay: 190.742 ms
Loss rate: 71.61%
-- Flow 2:
Average throughput: 10.54 Mbit/s
95th percentile per-packet one-way delay: 163.708 ms
Loss rate: 35.70%
-- Flow 3:
Average throughput: 15.96 Mbit/s
95th percentile per-packet one-way delay: 168.766 ms
Loss rate: 44.08%

Run 7: Report of Verus — Data Link

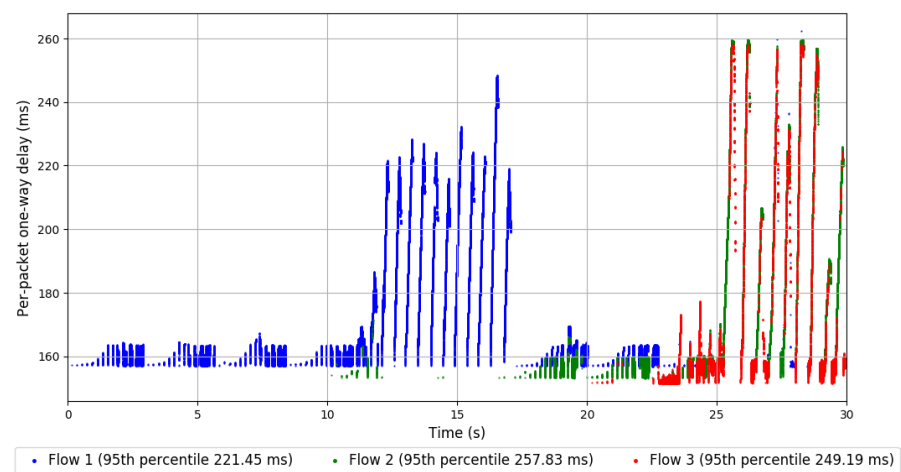
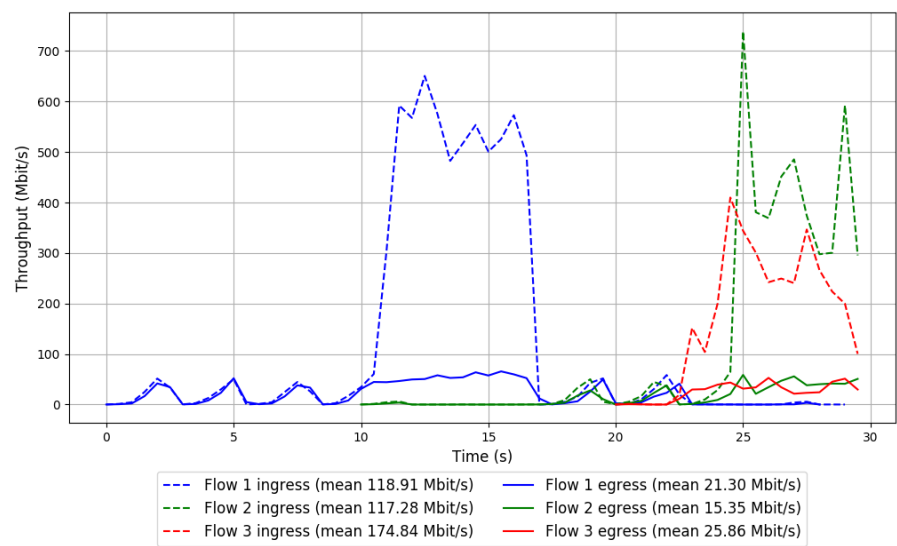


Run 8: Statistics of Verus

Start at: 2018-04-17 19:41:18
End at: 2018-04-17 19:41:48
Local clock offset: 9.306 ms
Remote clock offset: 0.3 ms

Below is generated by plot.py at 2018-04-17 21:14:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 38.87 Mbit/s
95th percentile per-packet one-way delay: 243.615 ms
Loss rate: 84.59%
-- Flow 1:
Average throughput: 21.30 Mbit/s
95th percentile per-packet one-way delay: 221.448 ms
Loss rate: 82.80%
-- Flow 2:
Average throughput: 15.35 Mbit/s
95th percentile per-packet one-way delay: 257.826 ms
Loss rate: 86.87%
-- Flow 3:
Average throughput: 25.86 Mbit/s
95th percentile per-packet one-way delay: 249.186 ms
Loss rate: 85.20%

Run 8: Report of Verus — Data Link

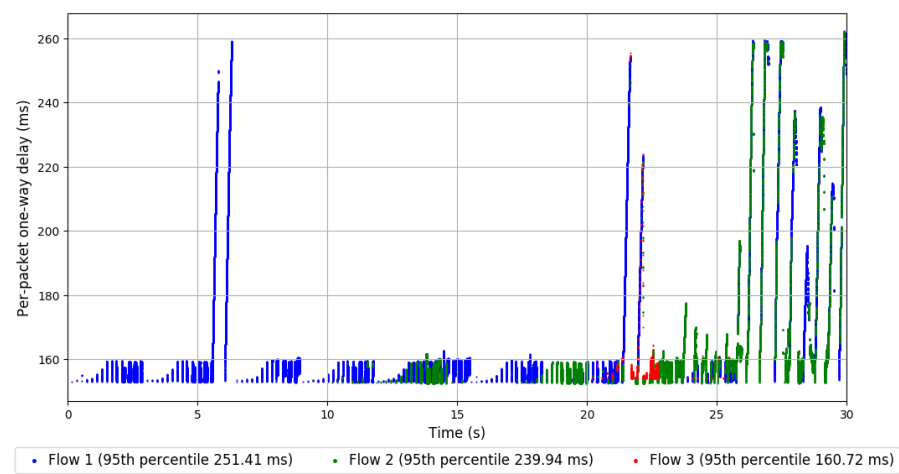
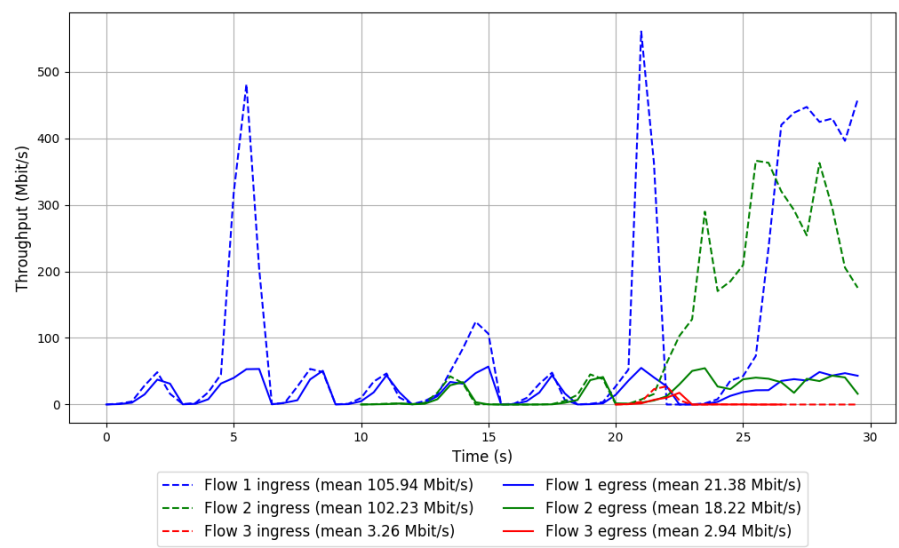


Run 9: Statistics of Verus

Start at: 2018-04-17 20:04:16
End at: 2018-04-17 20:04:46
Local clock offset: 2.726 ms
Remote clock offset: -1.848 ms

Below is generated by plot.py at 2018-04-17 21:14:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 34.06 Mbit/s
95th percentile per-packet one-way delay: 248.692 ms
Loss rate: 80.41%
-- Flow 1:
Average throughput: 21.38 Mbit/s
95th percentile per-packet one-way delay: 251.415 ms
Loss rate: 79.75%
-- Flow 2:
Average throughput: 18.22 Mbit/s
95th percentile per-packet one-way delay: 239.938 ms
Loss rate: 82.08%
-- Flow 3:
Average throughput: 2.94 Mbit/s
95th percentile per-packet one-way delay: 160.715 ms
Loss rate: 39.63%

Run 9: Report of Verus — Data Link

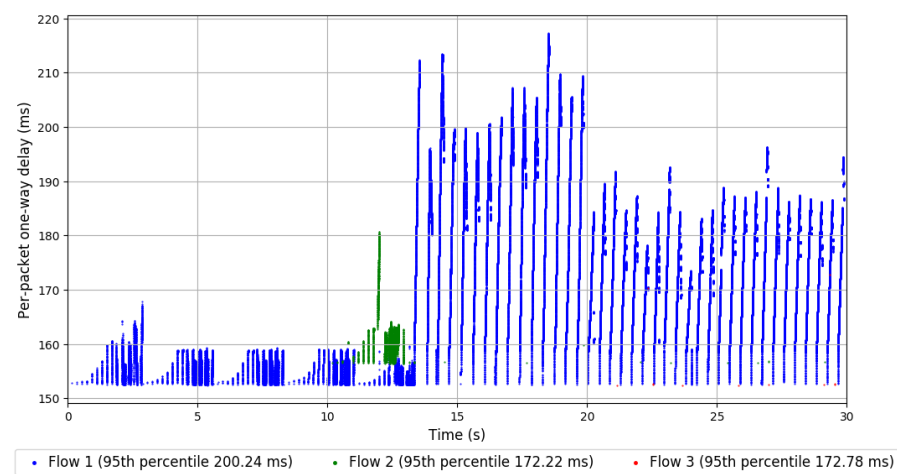
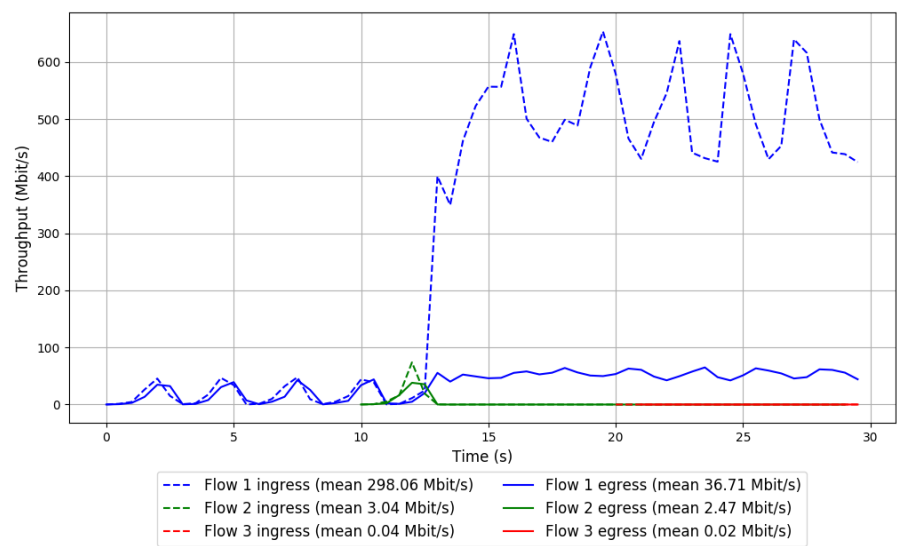


Run 10: Statistics of Verus

Start at: 2018-04-17 20:27:05
End at: 2018-04-17 20:27:35
Local clock offset: 4.957 ms
Remote clock offset: -1.201 ms

Below is generated by plot.py at 2018-04-17 21:14:44
Datalink statistics
-- Total of 3 flows:
Average throughput: 38.29 Mbit/s
95th percentile per-packet one-way delay: 199.882 ms
Loss rate: 87.22%
-- Flow 1:
Average throughput: 36.71 Mbit/s
95th percentile per-packet one-way delay: 200.241 ms
Loss rate: 87.67%
-- Flow 2:
Average throughput: 2.47 Mbit/s
95th percentile per-packet one-way delay: 172.224 ms
Loss rate: 19.66%
-- Flow 3:
Average throughput: 0.02 Mbit/s
95th percentile per-packet one-way delay: 172.779 ms
Loss rate: 64.52%

Run 10: Report of Verus — Data Link

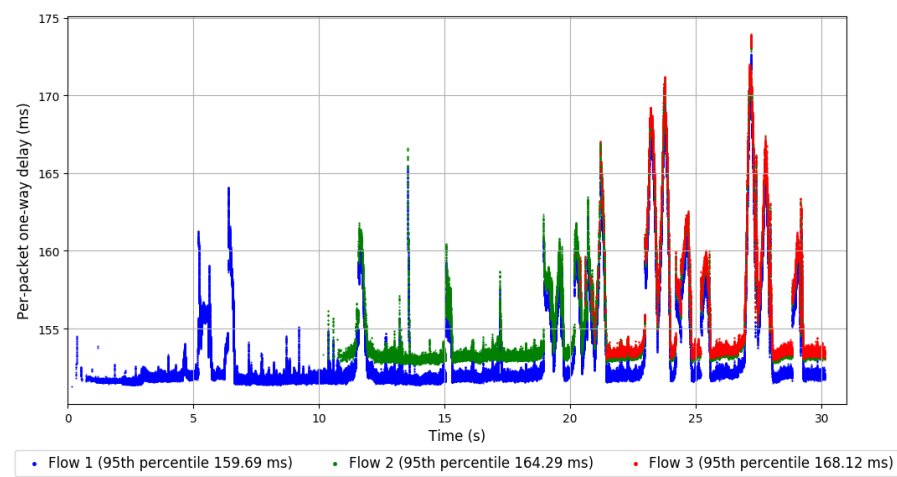
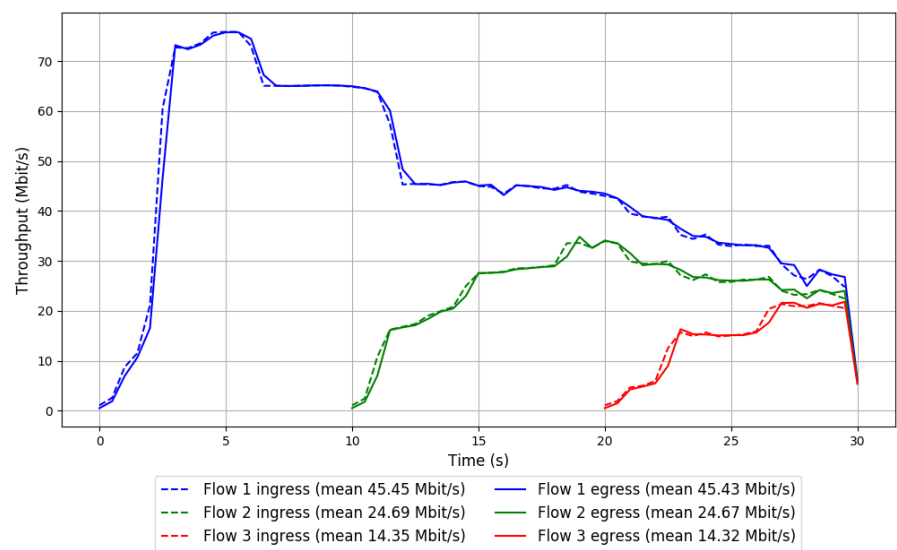


Run 1: Statistics of Copa

Start at: 2018-04-17 17:10:21
End at: 2018-04-17 17:10:51
Local clock offset: 5.642 ms
Remote clock offset: -12.244 ms

Below is generated by plot.py at 2018-04-17 21:15:02
Datalink statistics
-- Total of 3 flows:
Average throughput: 66.61 Mbit/s
95th percentile per-packet one-way delay: 161.845 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 45.43 Mbit/s
95th percentile per-packet one-way delay: 159.694 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 24.67 Mbit/s
95th percentile per-packet one-way delay: 164.292 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 14.32 Mbit/s
95th percentile per-packet one-way delay: 168.124 ms
Loss rate: 0.24%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-04-17 17:33:20

End at: 2018-04-17 17:33:50

Local clock offset: 6.913 ms

Remote clock offset: 3.572 ms

Below is generated by plot.py at 2018-04-17 21:15:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 66.41 Mbit/s

95th percentile per-packet one-way delay: 166.178 ms

Loss rate: 0.19%

-- Flow 1:

Average throughput: 43.62 Mbit/s

95th percentile per-packet one-way delay: 162.578 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 26.47 Mbit/s

95th percentile per-packet one-way delay: 168.715 ms

Loss rate: 0.28%

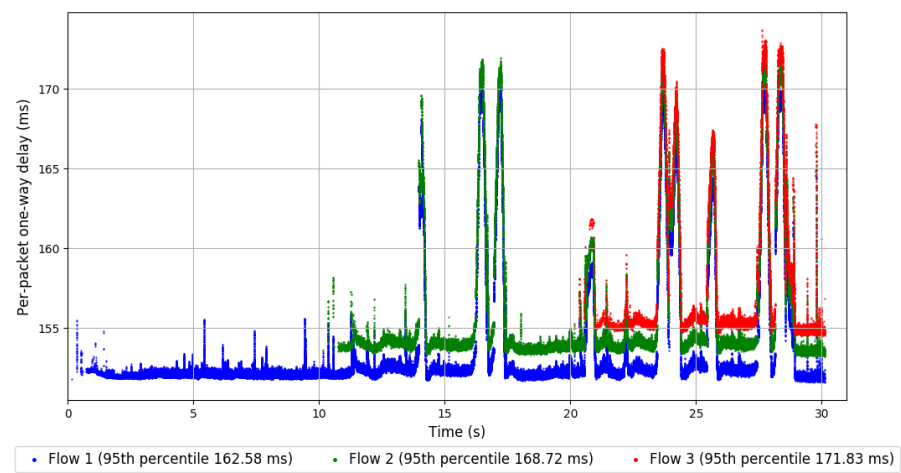
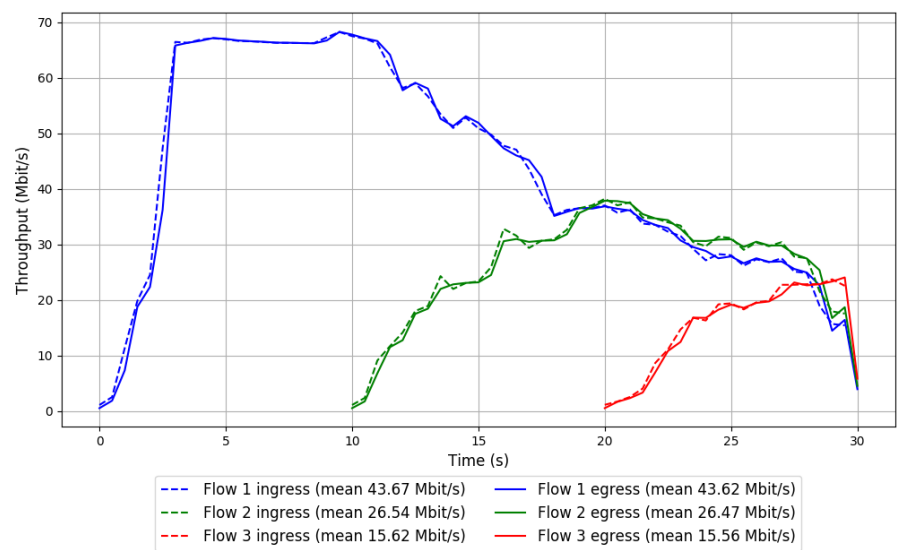
-- Flow 3:

Average throughput: 15.56 Mbit/s

95th percentile per-packet one-way delay: 171.829 ms

Loss rate: 0.33%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-04-17 17:56:16

End at: 2018-04-17 17:56:46

Local clock offset: 7.802 ms

Remote clock offset: 3.245 ms

Below is generated by plot.py at 2018-04-17 21:15:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 63.53 Mbit/s

95th percentile per-packet one-way delay: 166.615 ms

Loss rate: 0.11%

-- Flow 1:

Average throughput: 41.87 Mbit/s

95th percentile per-packet one-way delay: 165.010 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 26.63 Mbit/s

95th percentile per-packet one-way delay: 168.708 ms

Loss rate: 0.17%

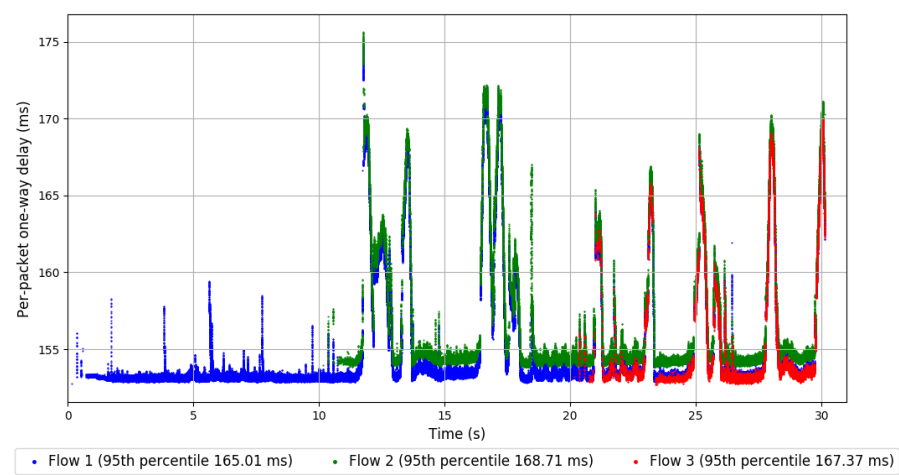
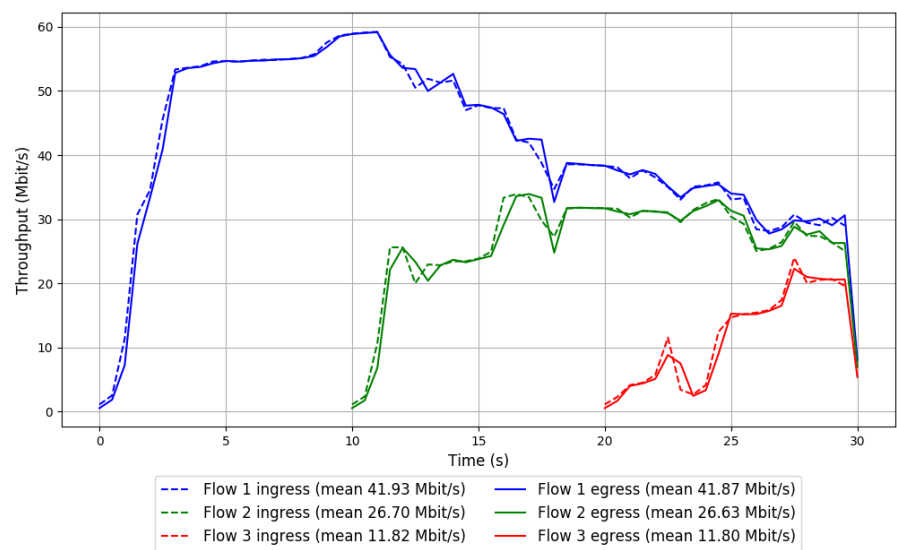
-- Flow 3:

Average throughput: 11.80 Mbit/s

95th percentile per-packet one-way delay: 167.368 ms

Loss rate: 0.04%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-04-17 18:18:56

End at: 2018-04-17 18:19:26

Local clock offset: 4.3 ms

Remote clock offset: 4.018 ms

Below is generated by plot.py at 2018-04-17 21:16:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 66.84 Mbit/s

95th percentile per-packet one-way delay: 163.128 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 44.23 Mbit/s

95th percentile per-packet one-way delay: 162.256 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 24.23 Mbit/s

95th percentile per-packet one-way delay: 164.567 ms

Loss rate: 0.07%

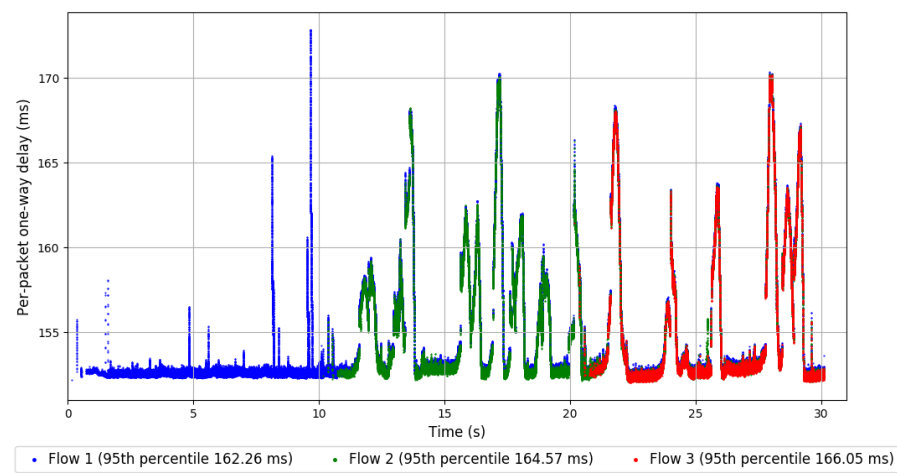
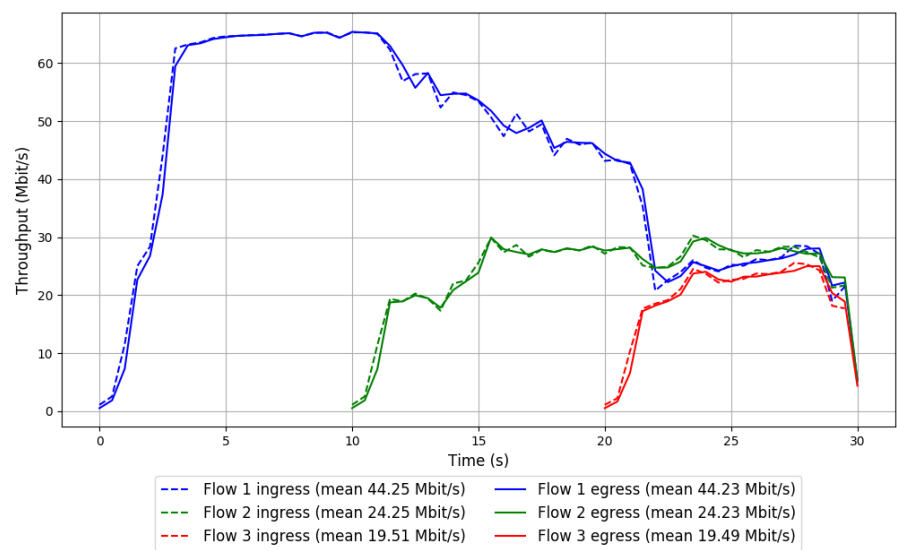
-- Flow 3:

Average throughput: 19.49 Mbit/s

95th percentile per-packet one-way delay: 166.049 ms

Loss rate: 0.17%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-04-17 18:41:55

End at: 2018-04-17 18:42:25

Local clock offset: 5.593 ms

Remote clock offset: 1.595 ms

Below is generated by plot.py at 2018-04-17 21:16:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 62.66 Mbit/s

95th percentile per-packet one-way delay: 161.566 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 43.12 Mbit/s

95th percentile per-packet one-way delay: 160.495 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 23.07 Mbit/s

95th percentile per-packet one-way delay: 162.475 ms

Loss rate: 0.10%

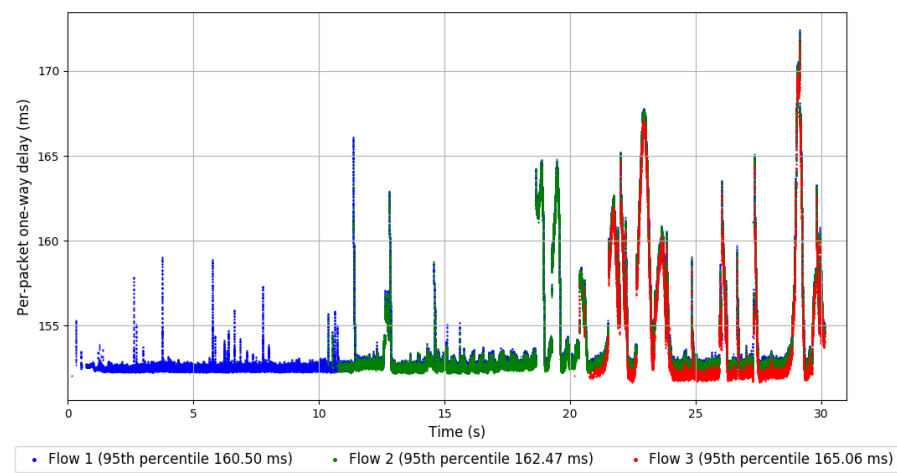
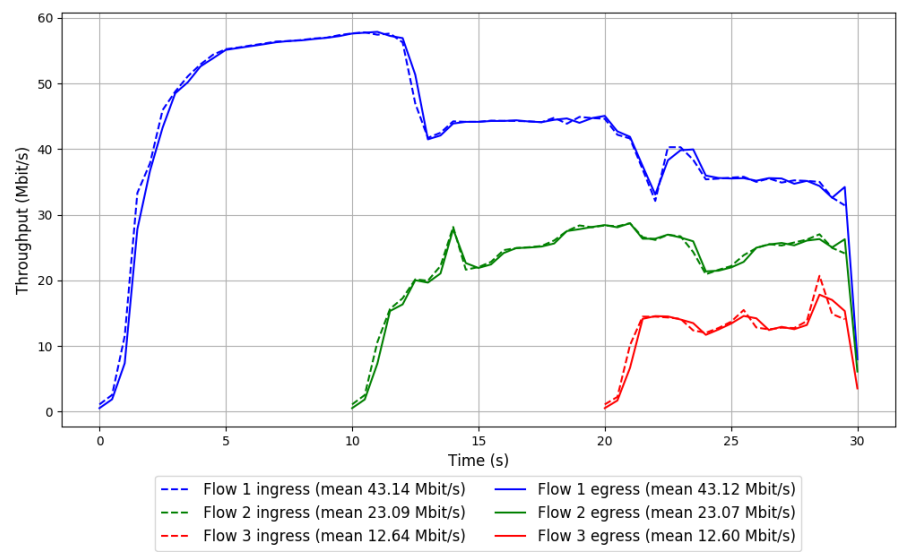
-- Flow 3:

Average throughput: 12.60 Mbit/s

95th percentile per-packet one-way delay: 165.058 ms

Loss rate: 0.29%

Run 5: Report of Copa — Data Link

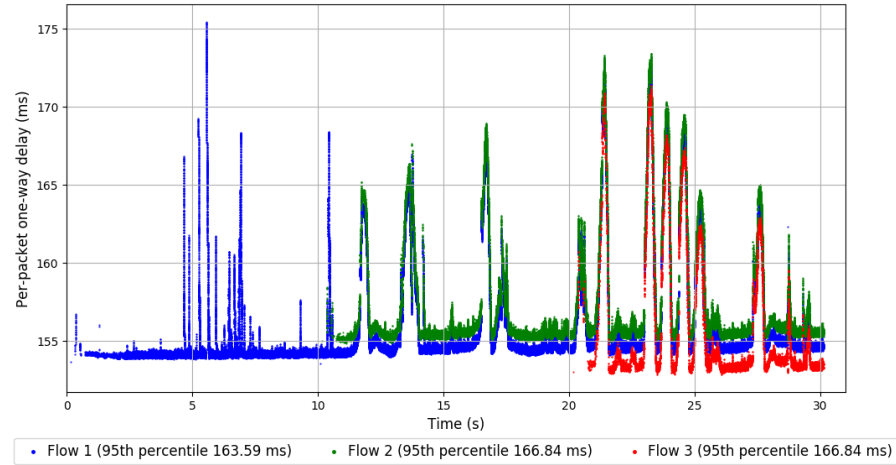
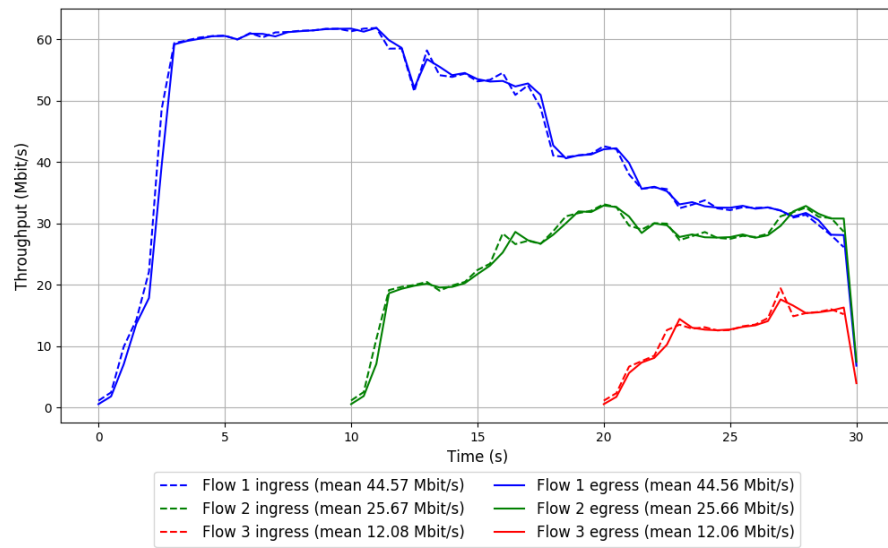


Run 6: Statistics of Copa

Start at: 2018-04-17 19:05:01
End at: 2018-04-17 19:05:31
Local clock offset: 6.583 ms
Remote clock offset: -0.061 ms

Below is generated by plot.py at 2018-04-17 21:16:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 65.66 Mbit/s
95th percentile per-packet one-way delay: 164.733 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 44.56 Mbit/s
95th percentile per-packet one-way delay: 163.593 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 25.66 Mbit/s
95th percentile per-packet one-way delay: 166.841 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 12.06 Mbit/s
95th percentile per-packet one-way delay: 166.844 ms
Loss rate: 0.16%

Run 6: Report of Copa — Data Link

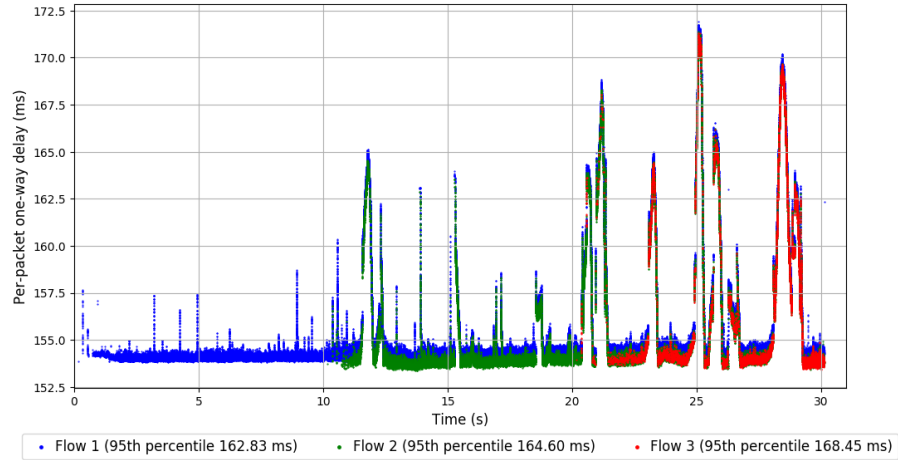
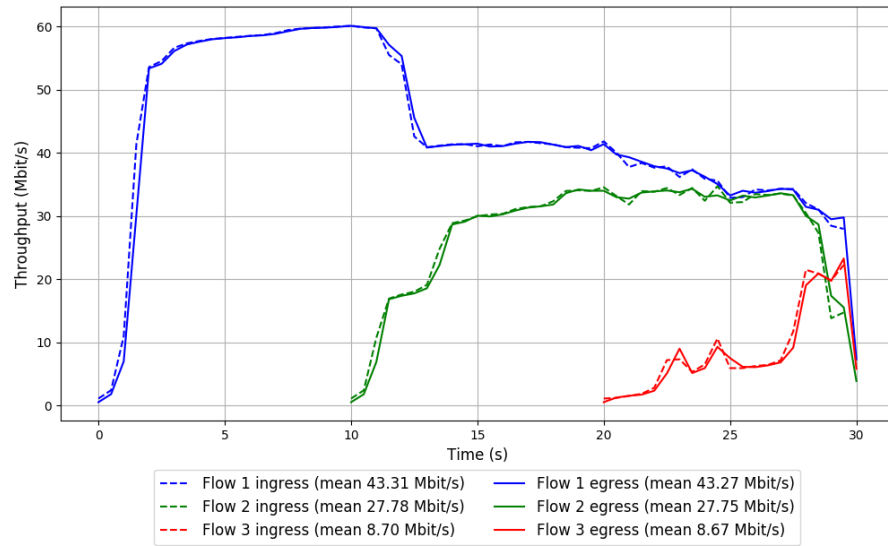


Run 7: Statistics of Copa

Start at: 2018-04-17 19:27:57
End at: 2018-04-17 19:28:27
Local clock offset: 11.396 ms
Remote clock offset: 1.09 ms

Below is generated by plot.py at 2018-04-17 21:16:29
Datalink statistics
-- Total of 3 flows:
Average throughput: 64.62 Mbit/s
95th percentile per-packet one-way delay: 163.800 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 43.27 Mbit/s
95th percentile per-packet one-way delay: 162.831 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 27.75 Mbit/s
95th percentile per-packet one-way delay: 164.605 ms
Loss rate: 0.12%
-- Flow 3:
Average throughput: 8.67 Mbit/s
95th percentile per-packet one-way delay: 168.446 ms
Loss rate: 0.36%

Run 7: Report of Copa — Data Link

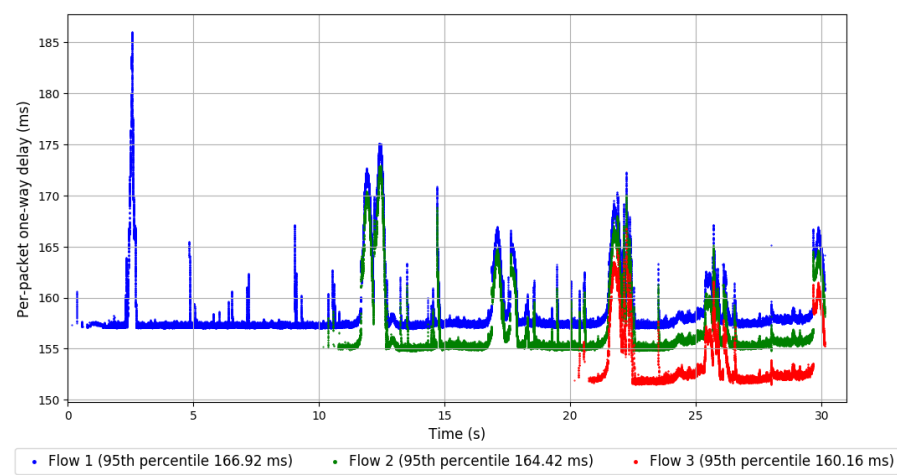
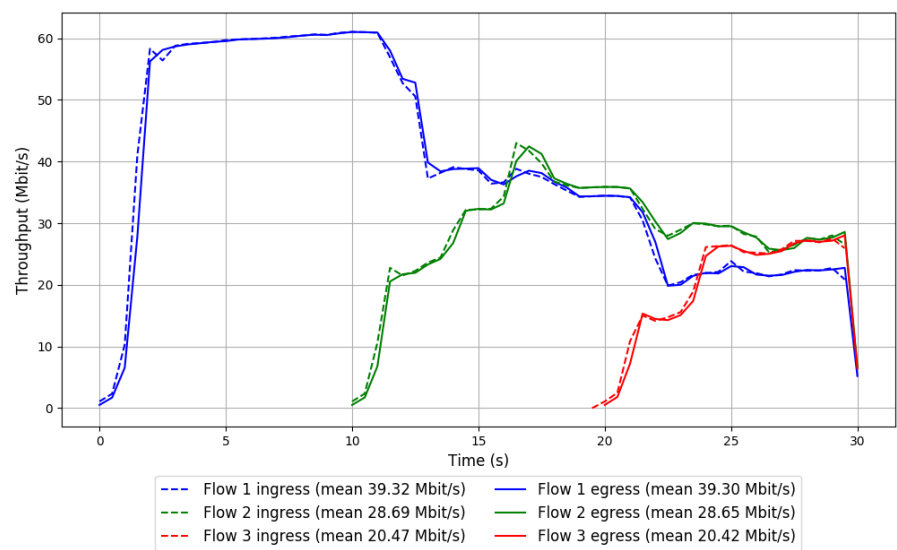


Run 8: Statistics of Copa

Start at: 2018-04-17 19:50:47
End at: 2018-04-17 19:51:17
Local clock offset: 4.919 ms
Remote clock offset: -1.186 ms

Below is generated by plot.py at 2018-04-17 21:16:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 65.17 Mbit/s
95th percentile per-packet one-way delay: 165.711 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 39.30 Mbit/s
95th percentile per-packet one-way delay: 166.917 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 28.65 Mbit/s
95th percentile per-packet one-way delay: 164.421 ms
Loss rate: 0.12%
-- Flow 3:
Average throughput: 20.42 Mbit/s
95th percentile per-packet one-way delay: 160.158 ms
Loss rate: 0.22%

Run 8: Report of Copa — Data Link

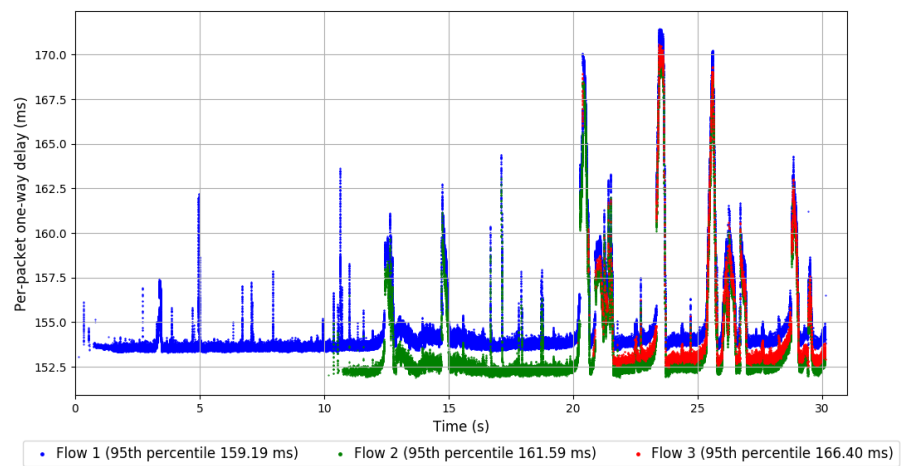
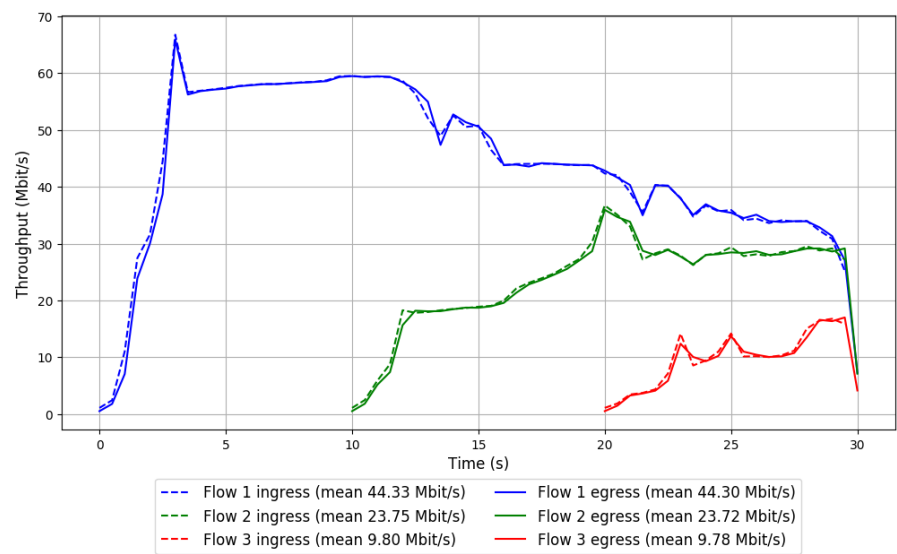


Run 9: Statistics of Copa

Start at: 2018-04-17 20:13:43
End at: 2018-04-17 20:14:13
Local clock offset: 2.653 ms
Remote clock offset: -1.282 ms

```
# Below is generated by plot.py at 2018-04-17 21:16:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 63.34 Mbit/s
95th percentile per-packet one-way delay: 159.943 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 44.30 Mbit/s
95th percentile per-packet one-way delay: 159.194 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 23.72 Mbit/s
95th percentile per-packet one-way delay: 161.591 ms
Loss rate: 0.12%
-- Flow 3:
Average throughput: 9.78 Mbit/s
95th percentile per-packet one-way delay: 166.398 ms
Loss rate: 0.17%
```

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-04-17 20:36:39

End at: 2018-04-17 20:37:09

Local clock offset: 5.154 ms

Remote clock offset: -1.42 ms

Below is generated by plot.py at 2018-04-17 21:23:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.49 Mbit/s

95th percentile per-packet one-way delay: 174.907 ms

Loss rate: 88.77%

-- Flow 1:

Average throughput: 91.49 Mbit/s

95th percentile per-packet one-way delay: 174.907 ms

Loss rate: 88.77%

-- Flow 2:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 163.309 ms

Loss rate: 88.89%

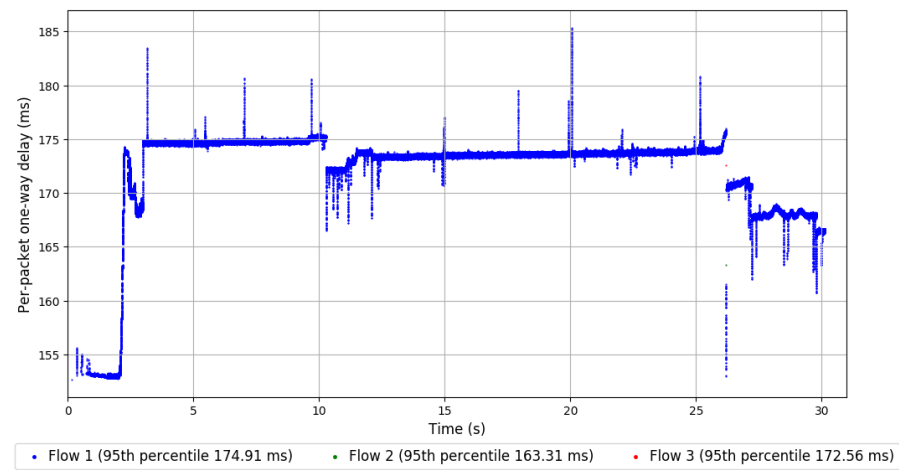
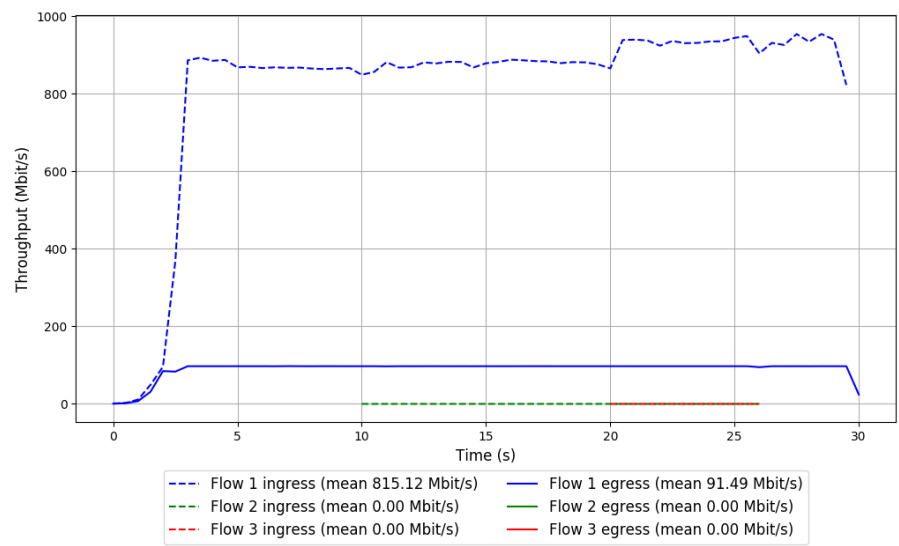
-- Flow 3:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 172.560 ms

Loss rate: 75.00%

Run 10: Report of Copa — Data Link

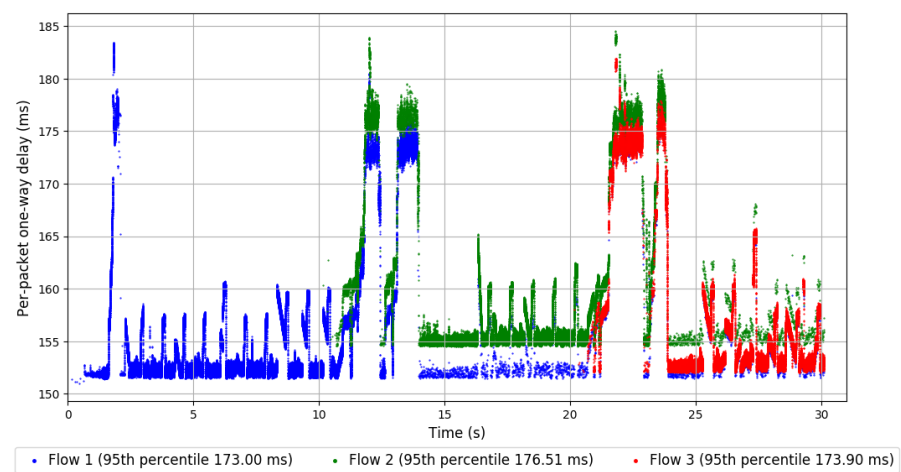
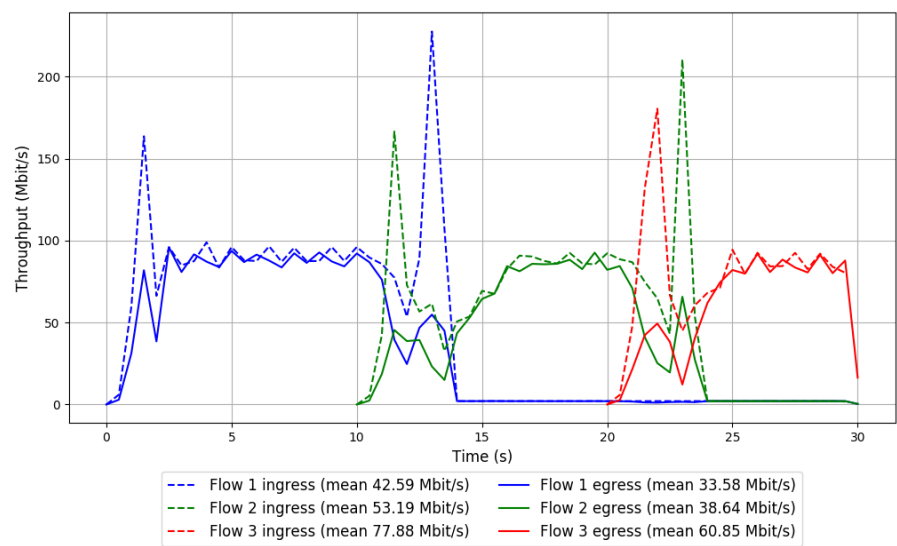


Run 1: Statistics of FillP

Start at: 2018-04-17 17:02:08
End at: 2018-04-17 17:02:38
Local clock offset: 5.993 ms
Remote clock offset: -2.752 ms

Below is generated by plot.py at 2018-04-17 21:23:05
Datalink statistics
-- Total of 3 flows:
Average throughput: 79.42 Mbit/s
95th percentile per-packet one-way delay: 174.515 ms
Loss rate: 23.47%
-- Flow 1:
Average throughput: 33.58 Mbit/s
95th percentile per-packet one-way delay: 173.004 ms
Loss rate: 21.17%
-- Flow 2:
Average throughput: 38.64 Mbit/s
95th percentile per-packet one-way delay: 176.507 ms
Loss rate: 27.37%
-- Flow 3:
Average throughput: 60.85 Mbit/s
95th percentile per-packet one-way delay: 173.897 ms
Loss rate: 21.91%

Run 1: Report of FillP — Data Link

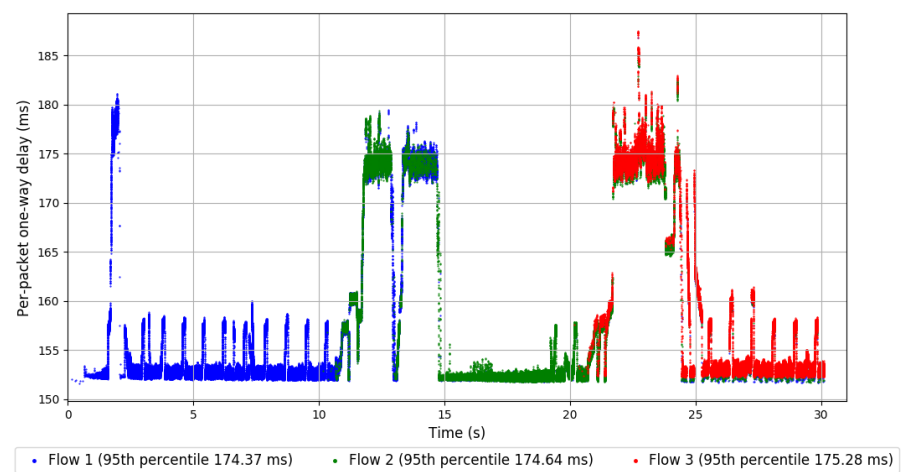
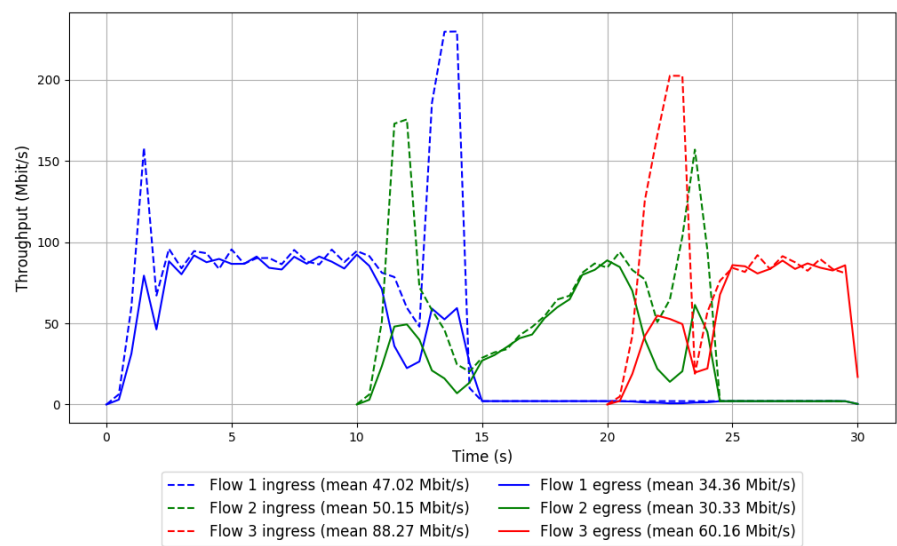


Run 2: Statistics of FillP

Start at: 2018-04-17 17:25:15
End at: 2018-04-17 17:25:45
Local clock offset: 6.395 ms
Remote clock offset: -3.191 ms

Below is generated by plot.py at 2018-04-17 21:23:05
Datalink statistics
-- Total of 3 flows:
Average throughput: 74.47 Mbit/s
95th percentile per-packet one-way delay: 174.678 ms
Loss rate: 32.08%
-- Flow 1:
Average throughput: 34.36 Mbit/s
95th percentile per-packet one-way delay: 174.366 ms
Loss rate: 26.93%
-- Flow 2:
Average throughput: 30.33 Mbit/s
95th percentile per-packet one-way delay: 174.643 ms
Loss rate: 39.52%
-- Flow 3:
Average throughput: 60.16 Mbit/s
95th percentile per-packet one-way delay: 175.280 ms
Loss rate: 31.88%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

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

End at: 2018-04-17 17:48:34

Local clock offset: 7.931 ms

Remote clock offset: 8.287 ms

Below is generated by plot.py at 2018-04-17 21:23:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 80.89 Mbit/s

95th percentile per-packet one-way delay: 179.115 ms

Loss rate: 23.23%

-- Flow 1:

Average throughput: 34.47 Mbit/s

95th percentile per-packet one-way delay: 179.098 ms

Loss rate: 22.24%

-- Flow 2:

Average throughput: 50.12 Mbit/s

95th percentile per-packet one-way delay: 175.261 ms

Loss rate: 21.79%

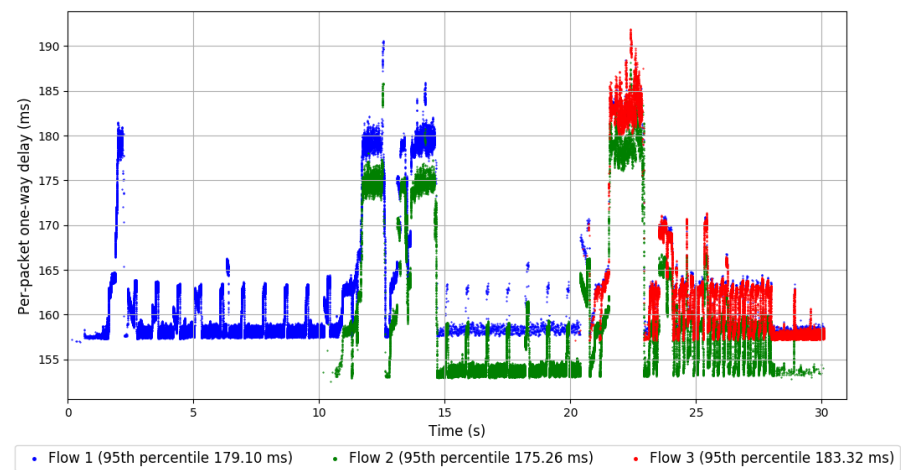
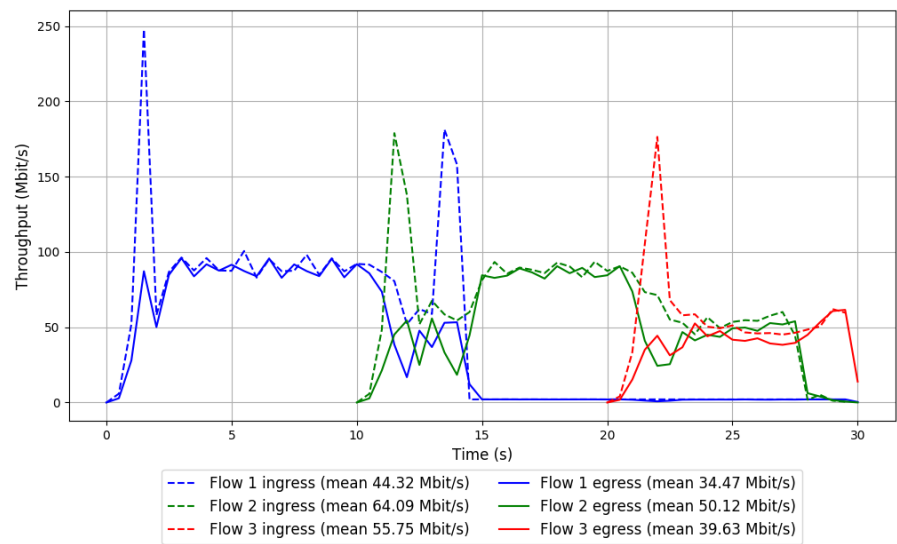
-- Flow 3:

Average throughput: 39.63 Mbit/s

95th percentile per-packet one-way delay: 183.321 ms

Loss rate: 28.92%

Run 3: Report of FillP — Data Link

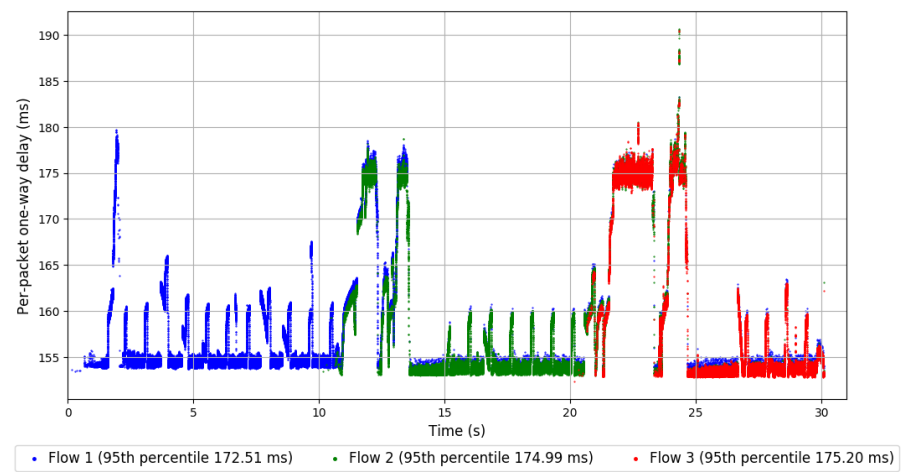
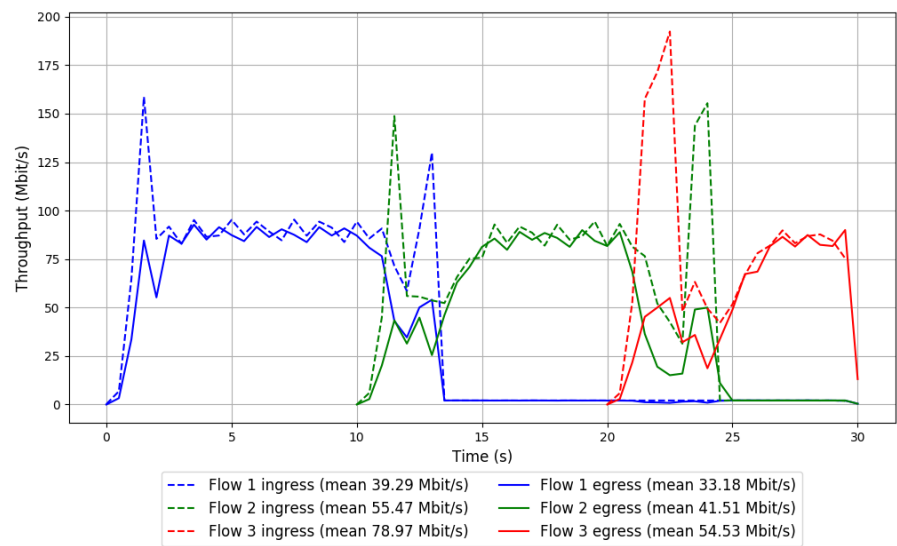


Run 4: Statistics of FillP

Start at: 2018-04-17 18:10:57
End at: 2018-04-17 18:11:27
Local clock offset: 5.001 ms
Remote clock offset: -6.868 ms

Below is generated by plot.py at 2018-04-17 21:23:05
Datalink statistics
-- Total of 3 flows:
Average throughput: 78.92 Mbit/s
95th percentile per-packet one-way delay: 174.932 ms
Loss rate: 22.93%
-- Flow 1:
Average throughput: 33.18 Mbit/s
95th percentile per-packet one-way delay: 172.514 ms
Loss rate: 15.54%
-- Flow 2:
Average throughput: 41.51 Mbit/s
95th percentile per-packet one-way delay: 174.987 ms
Loss rate: 25.14%
-- Flow 3:
Average throughput: 54.53 Mbit/s
95th percentile per-packet one-way delay: 175.202 ms
Loss rate: 30.89%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-04-17 18:33:50

End at: 2018-04-17 18:34:20

Local clock offset: 4.742 ms

Remote clock offset: 1.798 ms

Below is generated by plot.py at 2018-04-17 21:23:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.57 Mbit/s

95th percentile per-packet one-way delay: 171.236 ms

Loss rate: 14.81%

-- Flow 1:

Average throughput: 59.83 Mbit/s

95th percentile per-packet one-way delay: 168.779 ms

Loss rate: 10.79%

-- Flow 2:

Average throughput: 34.65 Mbit/s

95th percentile per-packet one-way delay: 172.894 ms

Loss rate: 23.33%

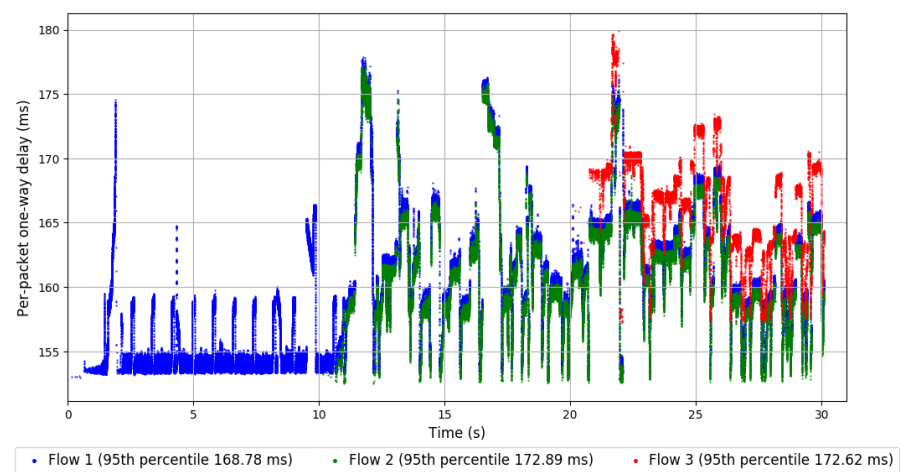
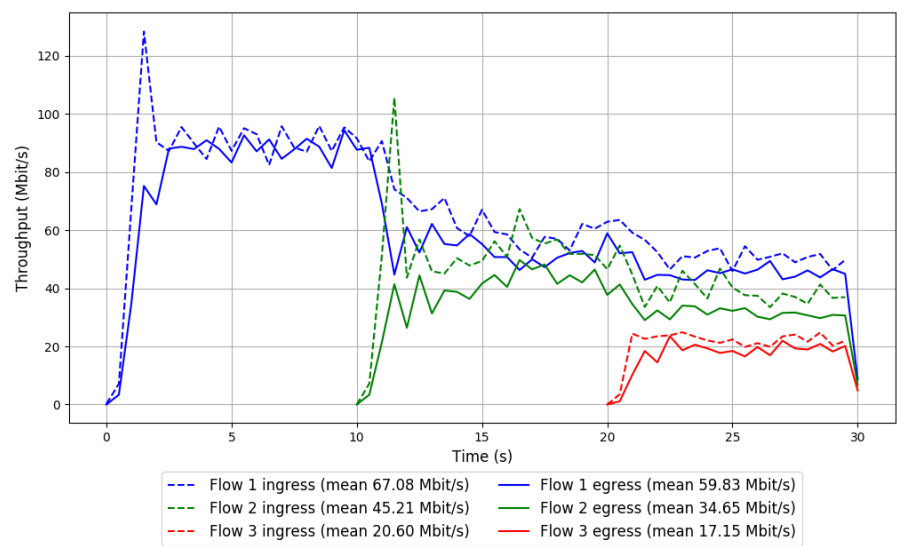
-- Flow 3:

Average throughput: 17.15 Mbit/s

95th percentile per-packet one-way delay: 172.616 ms

Loss rate: 16.77%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-04-17 18:56:47

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

Local clock offset: 6.212 ms

Remote clock offset: 1.387 ms

Below is generated by plot.py at 2018-04-17 21:23:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 80.55 Mbit/s

95th percentile per-packet one-way delay: 174.803 ms

Loss rate: 24.37%

-- Flow 1:

Average throughput: 34.03 Mbit/s

95th percentile per-packet one-way delay: 172.613 ms

Loss rate: 19.24%

-- Flow 2:

Average throughput: 43.08 Mbit/s

95th percentile per-packet one-way delay: 174.851 ms

Loss rate: 28.38%

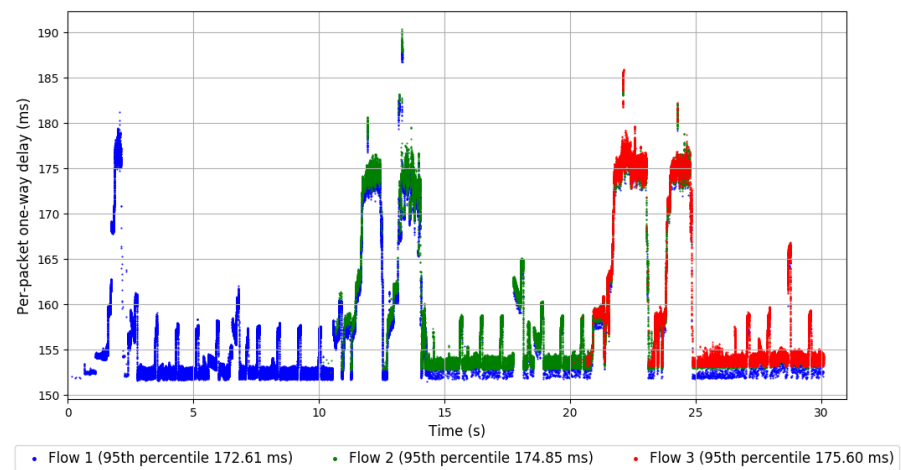
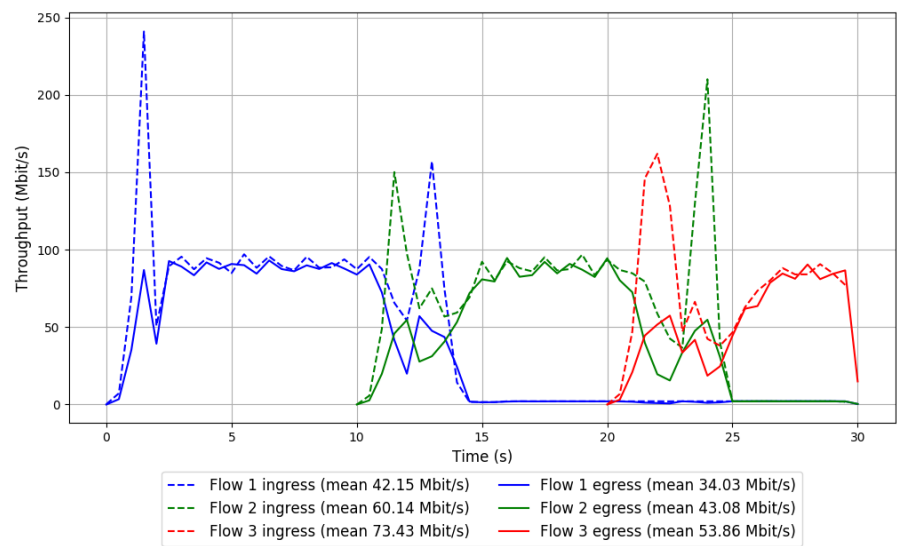
-- Flow 3:

Average throughput: 53.86 Mbit/s

95th percentile per-packet one-way delay: 175.602 ms

Loss rate: 26.65%

Run 6: Report of FillP — Data Link

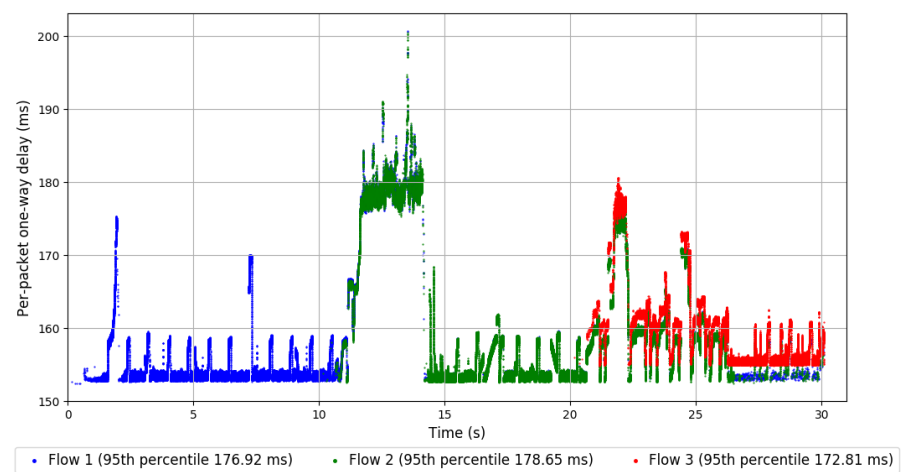
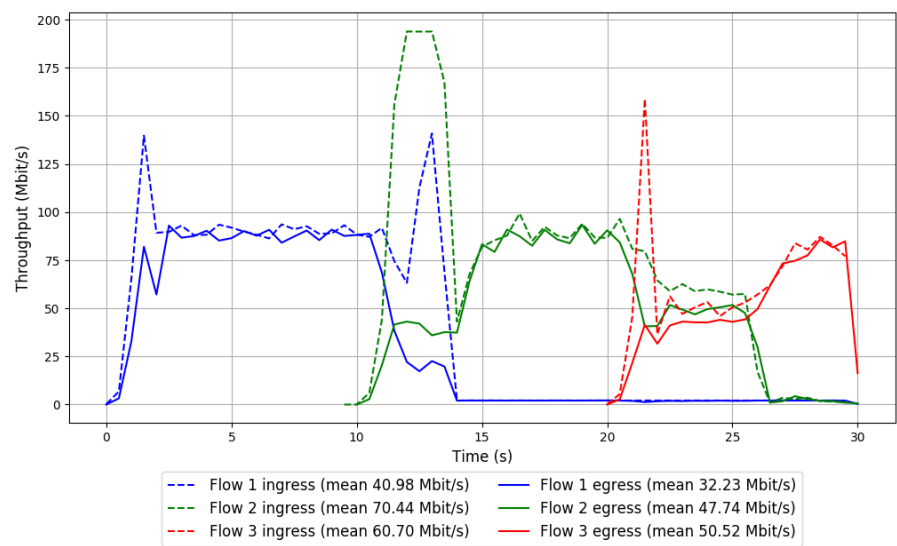


Run 7: Statistics of FillP

Start at: 2018-04-17 19:19:45
End at: 2018-04-17 19:20:15
Local clock offset: 10.289 ms
Remote clock offset: -0.849 ms

Below is generated by plot.py at 2018-04-17 21:23:05
Datalink statistics
-- Total of 3 flows:
Average throughput: 80.74 Mbit/s
95th percentile per-packet one-way delay: 177.536 ms
Loss rate: 25.21%
-- Flow 1:
Average throughput: 32.23 Mbit/s
95th percentile per-packet one-way delay: 176.919 ms
Loss rate: 21.35%
-- Flow 2:
Average throughput: 47.74 Mbit/s
95th percentile per-packet one-way delay: 178.651 ms
Loss rate: 32.22%
-- Flow 3:
Average throughput: 50.52 Mbit/s
95th percentile per-packet one-way delay: 172.813 ms
Loss rate: 16.74%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-04-17 19:42:42

End at: 2018-04-17 19:43:12

Local clock offset: 8.236 ms

Remote clock offset: -0.5 ms

Below is generated by plot.py at 2018-04-17 21:23:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 80.50 Mbit/s

95th percentile per-packet one-way delay: 178.568 ms

Loss rate: 24.87%

-- Flow 1:

Average throughput: 33.30 Mbit/s

95th percentile per-packet one-way delay: 175.164 ms

Loss rate: 18.58%

-- Flow 2:

Average throughput: 42.14 Mbit/s

95th percentile per-packet one-way delay: 178.889 ms

Loss rate: 32.33%

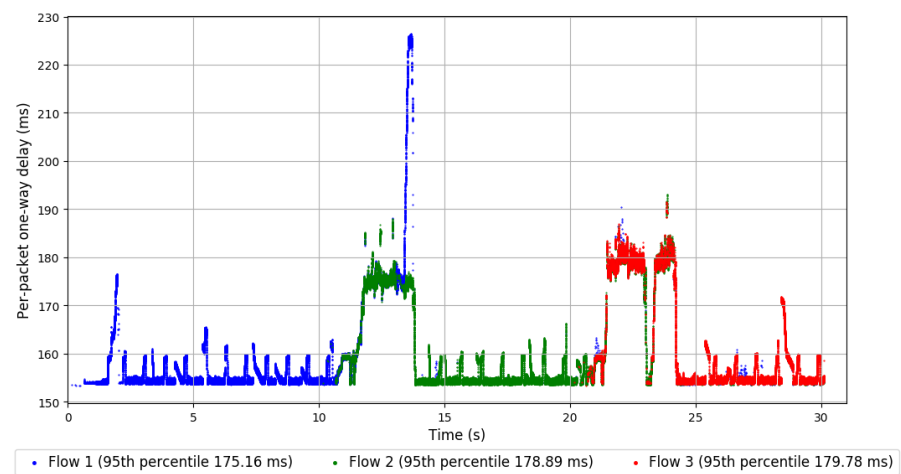
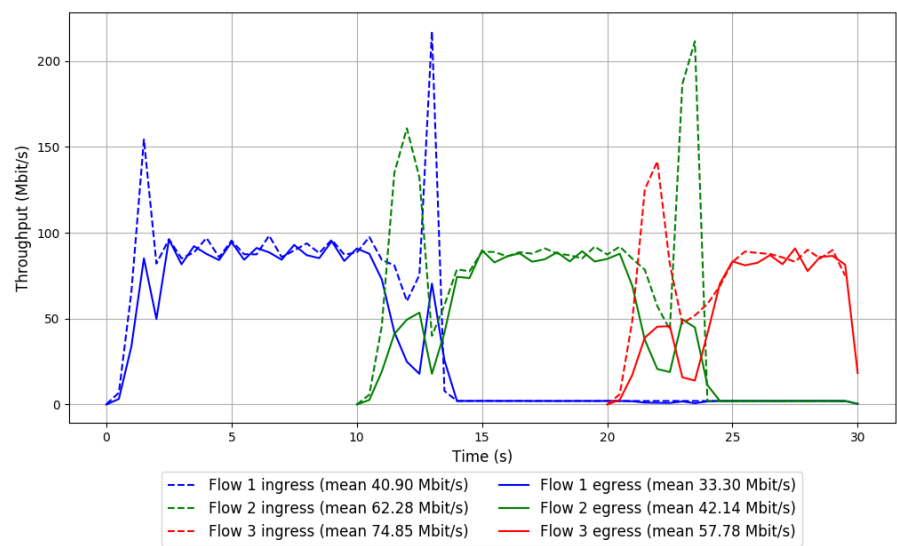
-- Flow 3:

Average throughput: 57.78 Mbit/s

95th percentile per-packet one-way delay: 179.782 ms

Loss rate: 22.78%

Run 8: Report of FillP — Data Link

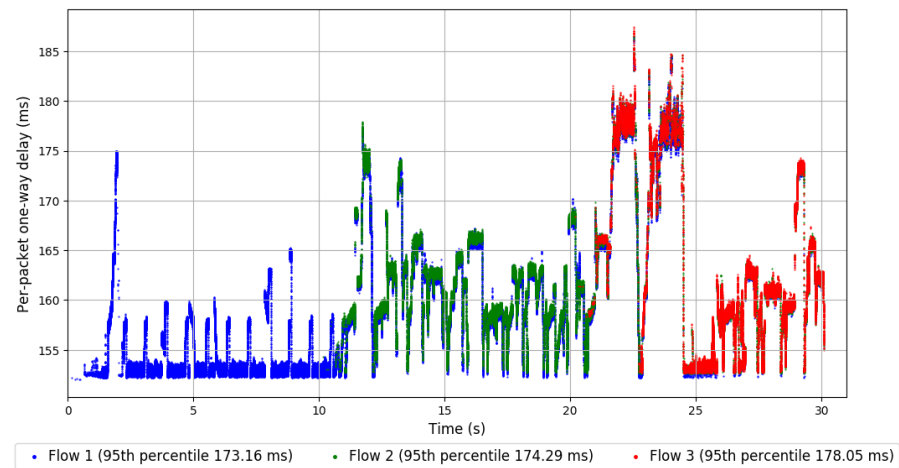
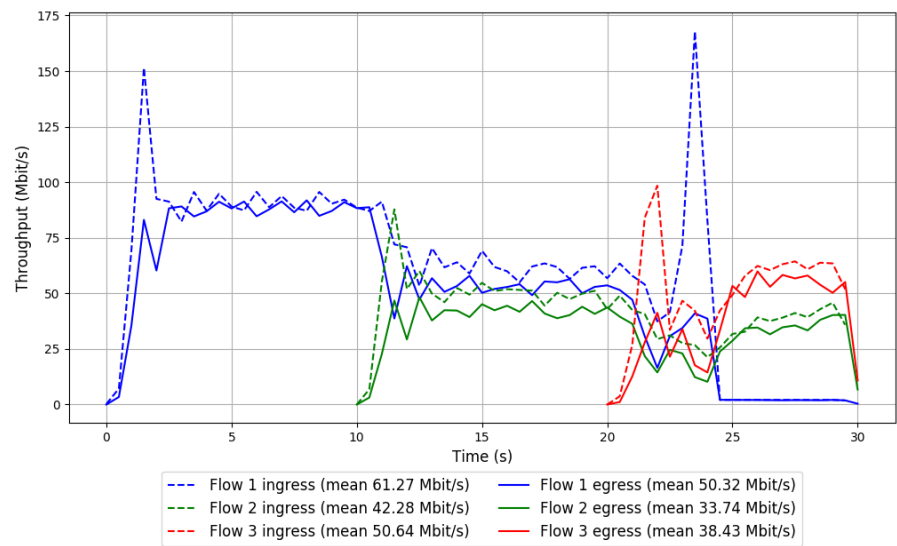


Run 9: Statistics of FillP

Start at: 2018-04-17 20:05:38
End at: 2018-04-17 20:06:08
Local clock offset: 2.739 ms
Remote clock offset: -1.661 ms

Below is generated by plot.py at 2018-04-17 21:23:05
Datalink statistics
-- Total of 3 flows:
Average throughput: 85.50 Mbit/s
95th percentile per-packet one-way delay: 175.661 ms
Loss rate: 19.49%
-- Flow 1:
Average throughput: 50.32 Mbit/s
95th percentile per-packet one-way delay: 173.160 ms
Loss rate: 17.87%
-- Flow 2:
Average throughput: 33.74 Mbit/s
95th percentile per-packet one-way delay: 174.295 ms
Loss rate: 20.21%
-- Flow 3:
Average throughput: 38.43 Mbit/s
95th percentile per-packet one-way delay: 178.052 ms
Loss rate: 24.20%

Run 9: Report of FillP — Data Link

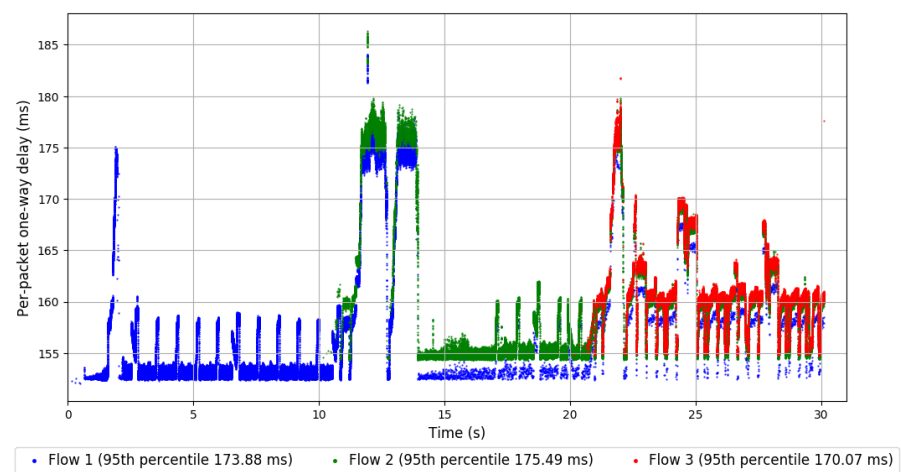
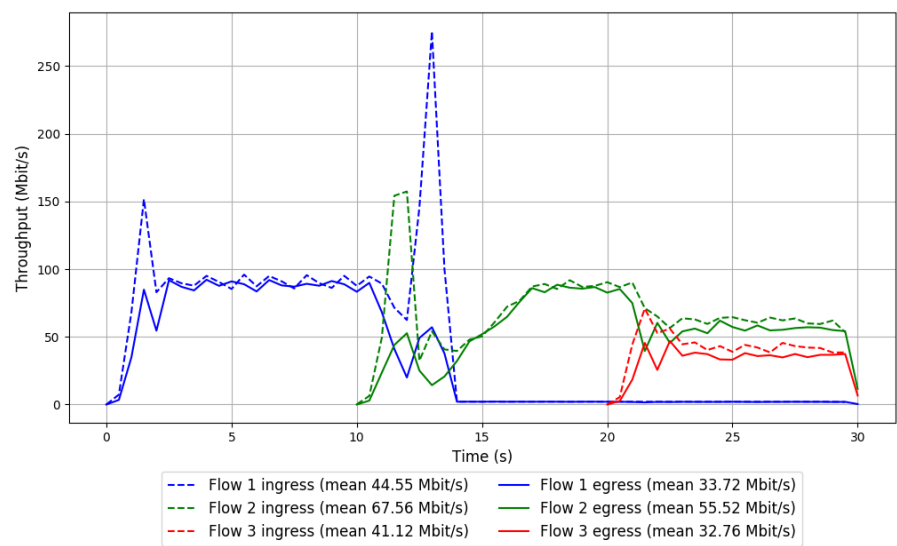


```
Run 10: Statistics of FillP

Start at: 2018-04-17 20:28:35
End at: 2018-04-17 20:29:05
Local clock offset: 5.066 ms
Remote clock offset: -1.27 ms

# Below is generated by plot.py at 2018-04-17 21:23:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 81.52 Mbit/s
95th percentile per-packet one-way delay: 174.145 ms
Loss rate: 20.92%
-- Flow 1:
Average throughput: 33.72 Mbit/s
95th percentile per-packet one-way delay: 173.884 ms
Loss rate: 24.29%
-- Flow 2:
Average throughput: 55.52 Mbit/s
95th percentile per-packet one-way delay: 175.487 ms
Loss rate: 17.80%
-- Flow 3:
Average throughput: 32.76 Mbit/s
95th percentile per-packet one-way delay: 170.070 ms
Loss rate: 20.18%
```

Run 10: Report of FillP — Data Link

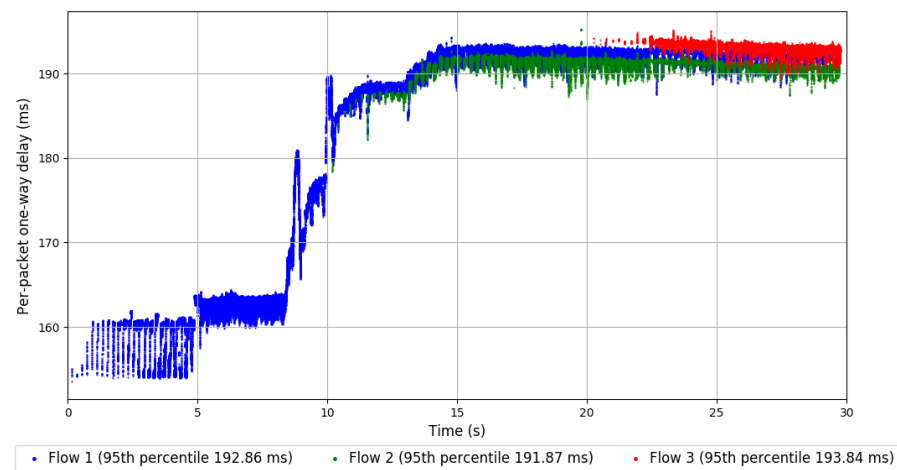
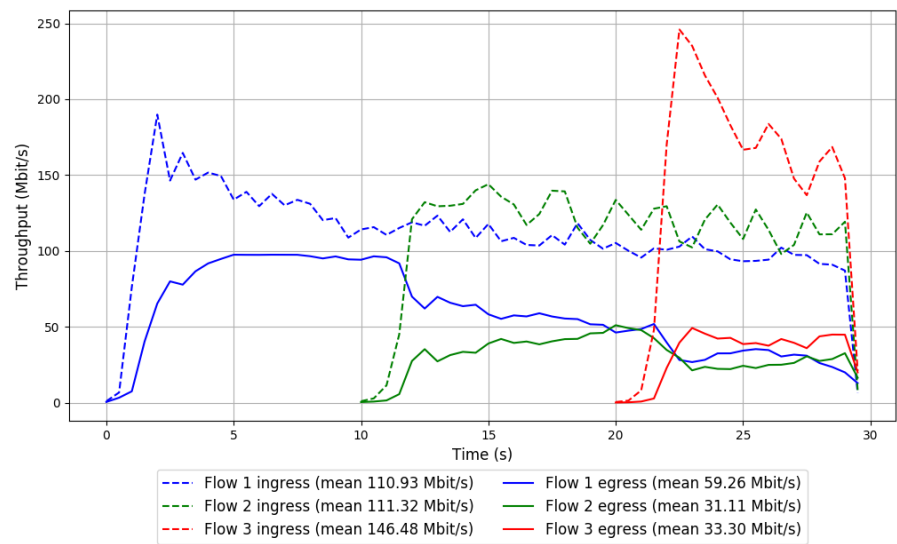


Run 1: Statistics of Indigo-1-32

Start at: 2018-04-17 17:11:45
End at: 2018-04-17 17:12:15
Local clock offset: 5.53 ms
Remote clock offset: -12.368 ms

Below is generated by plot.py at 2018-04-17 21:23:05
Datalink statistics
-- Total of 3 flows:
Average throughput: 90.45 Mbit/s
95th percentile per-packet one-way delay: 193.384 ms
Loss rate: 60.87%
-- Flow 1:
Average throughput: 59.26 Mbit/s
95th percentile per-packet one-way delay: 192.857 ms
Loss rate: 46.51%
-- Flow 2:
Average throughput: 31.11 Mbit/s
95th percentile per-packet one-way delay: 191.867 ms
Loss rate: 72.04%
-- Flow 3:
Average throughput: 33.30 Mbit/s
95th percentile per-packet one-way delay: 193.840 ms
Loss rate: 77.27%

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



Run 2: Statistics of Indigo-1-32

Start at: 2018-04-17 17:34:44

End at: 2018-04-17 17:35:14

Local clock offset: 7.278 ms

Remote clock offset: 4.461 ms

Below is generated by plot.py at 2018-04-17 21:23:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.24 Mbit/s

95th percentile per-packet one-way delay: 163.466 ms

Loss rate: 63.93%

-- Flow 1:

Average throughput: 59.84 Mbit/s

95th percentile per-packet one-way delay: 163.712 ms

Loss rate: 54.65%

-- Flow 2:

Average throughput: 31.71 Mbit/s

95th percentile per-packet one-way delay: 163.579 ms

Loss rate: 74.33%

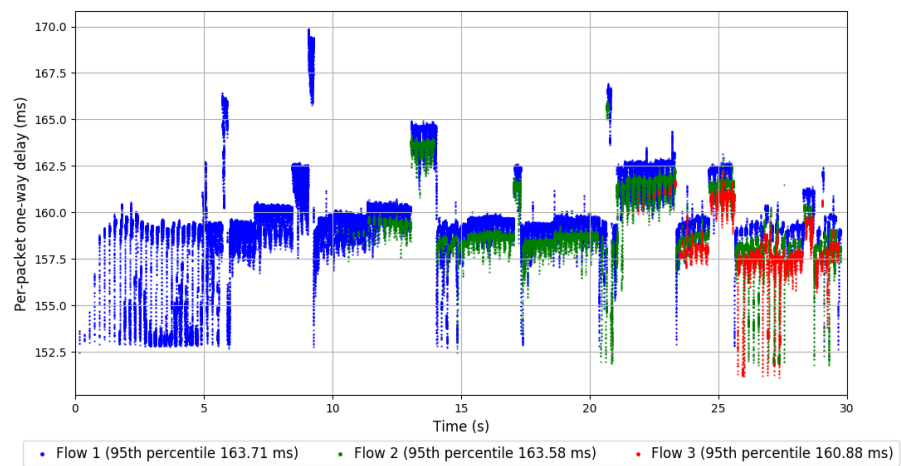
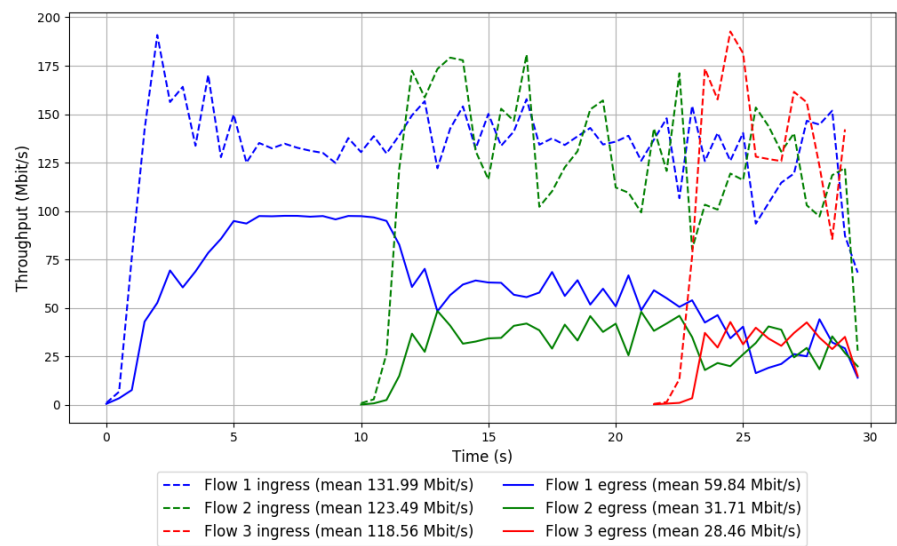
-- Flow 3:

Average throughput: 28.46 Mbit/s

95th percentile per-packet one-way delay: 160.877 ms

Loss rate: 76.00%

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



Run 3: Statistics of Indigo-1-32

Start at: 2018-04-17 17:57:39

End at: 2018-04-17 17:58:09

Local clock offset: 7.337 ms

Remote clock offset: 2.746 ms

Below is generated by plot.py at 2018-04-17 21:23:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.79 Mbit/s

95th percentile per-packet one-way delay: 166.392 ms

Loss rate: 63.38%

-- Flow 1:

Average throughput: 60.94 Mbit/s

95th percentile per-packet one-way delay: 163.201 ms

Loss rate: 52.33%

-- Flow 2:

Average throughput: 26.50 Mbit/s

95th percentile per-packet one-way delay: 168.602 ms

Loss rate: 75.85%

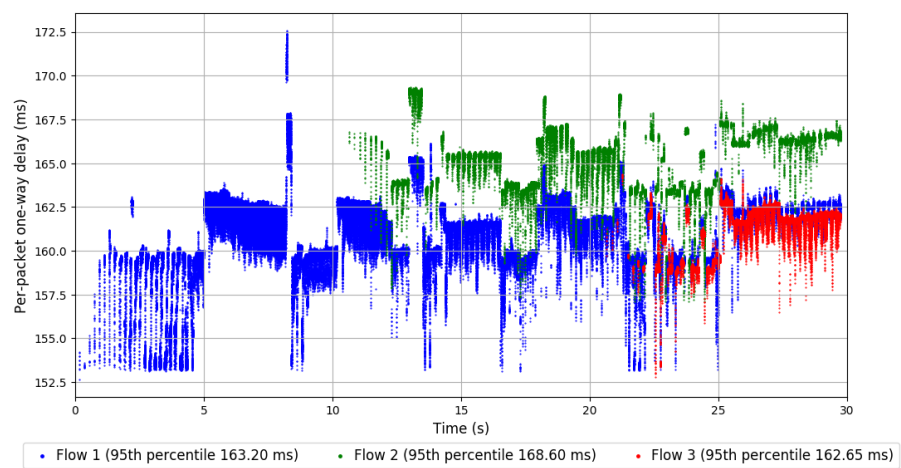
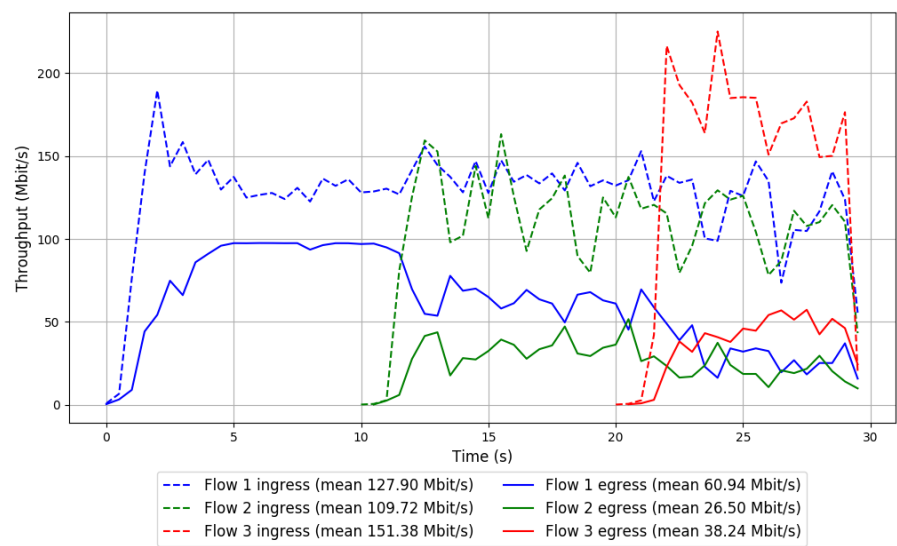
-- Flow 3:

Average throughput: 38.24 Mbit/s

95th percentile per-packet one-way delay: 162.647 ms

Loss rate: 74.74%

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



Run 4: Statistics of Indigo-1-32

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

End at: 2018-04-17 18:20:50

Local clock offset: 4.144 ms

Remote clock offset: 4.148 ms

Below is generated by plot.py at 2018-04-17 21:23:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.04 Mbit/s

95th percentile per-packet one-way delay: 167.411 ms

Loss rate: 64.11%

-- Flow 1:

Average throughput: 55.36 Mbit/s

95th percentile per-packet one-way delay: 168.177 ms

Loss rate: 56.28%

-- Flow 2:

Average throughput: 38.47 Mbit/s

95th percentile per-packet one-way delay: 168.731 ms

Loss rate: 69.90%

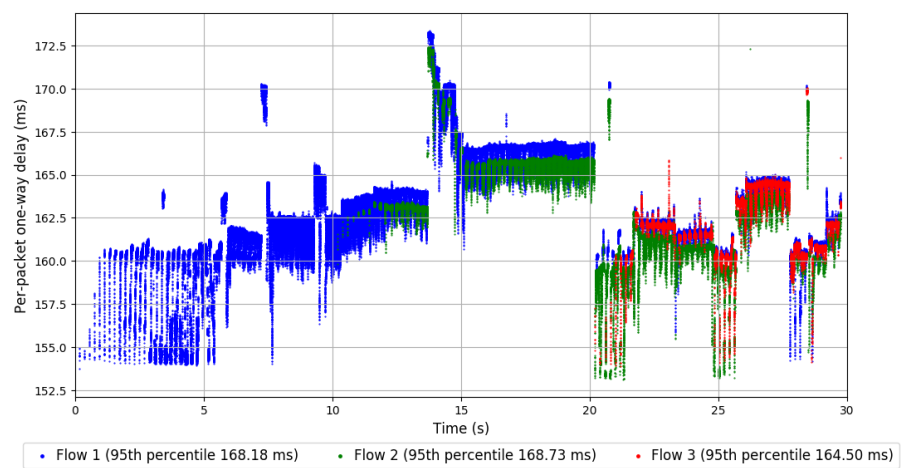
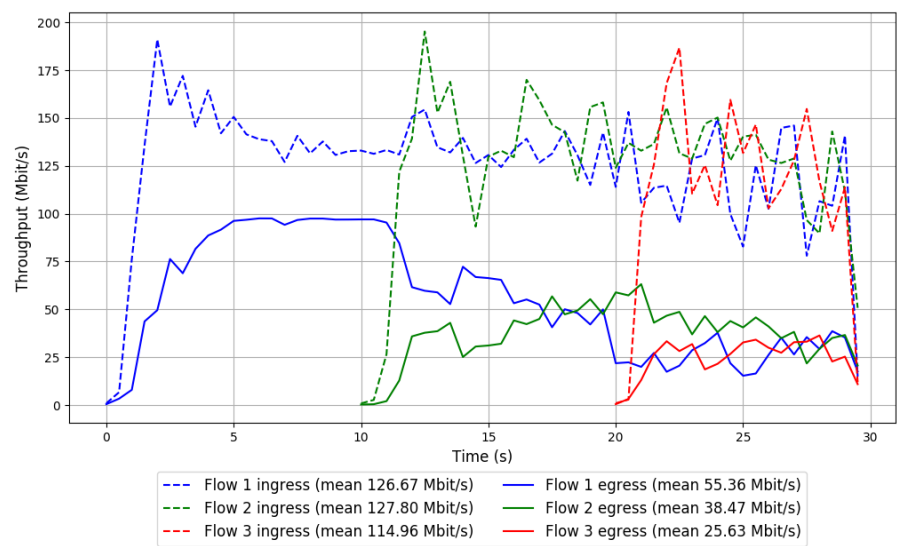
-- Flow 3:

Average throughput: 25.63 Mbit/s

95th percentile per-packet one-way delay: 164.499 ms

Loss rate: 77.68%

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



Run 5: Statistics of Indigo-1-32

Start at: 2018-04-17 18:43:19

End at: 2018-04-17 18:43:49

Local clock offset: 5.788 ms

Remote clock offset: 1.572 ms

Below is generated by plot.py at 2018-04-17 21:23:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.58 Mbit/s

95th percentile per-packet one-way delay: 164.037 ms

Loss rate: 67.51%

-- Flow 1:

Average throughput: 46.72 Mbit/s

95th percentile per-packet one-way delay: 163.324 ms

Loss rate: 61.48%

-- Flow 2:

Average throughput: 47.97 Mbit/s

95th percentile per-packet one-way delay: 164.104 ms

Loss rate: 70.12%

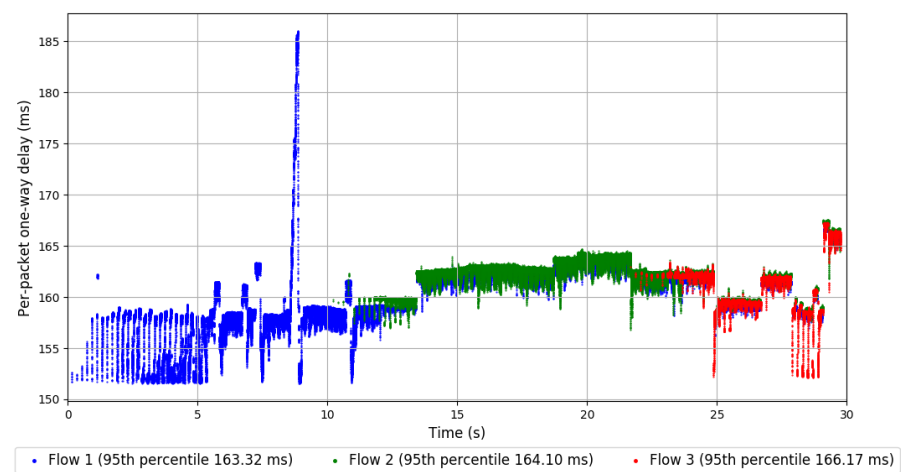
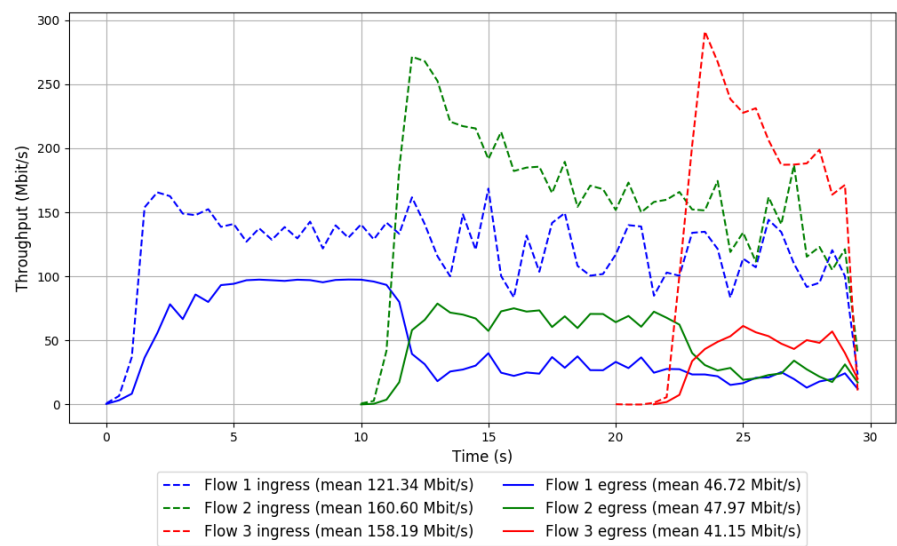
-- Flow 3:

Average throughput: 41.15 Mbit/s

95th percentile per-packet one-way delay: 166.174 ms

Loss rate: 76.84%

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

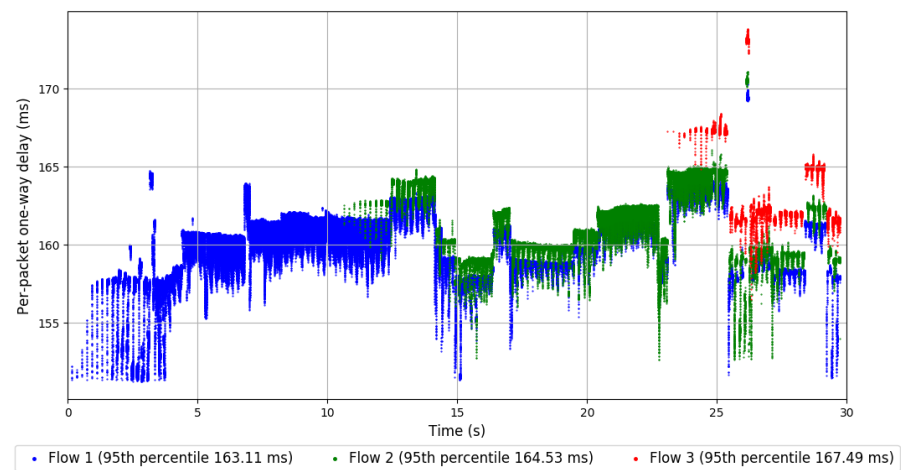
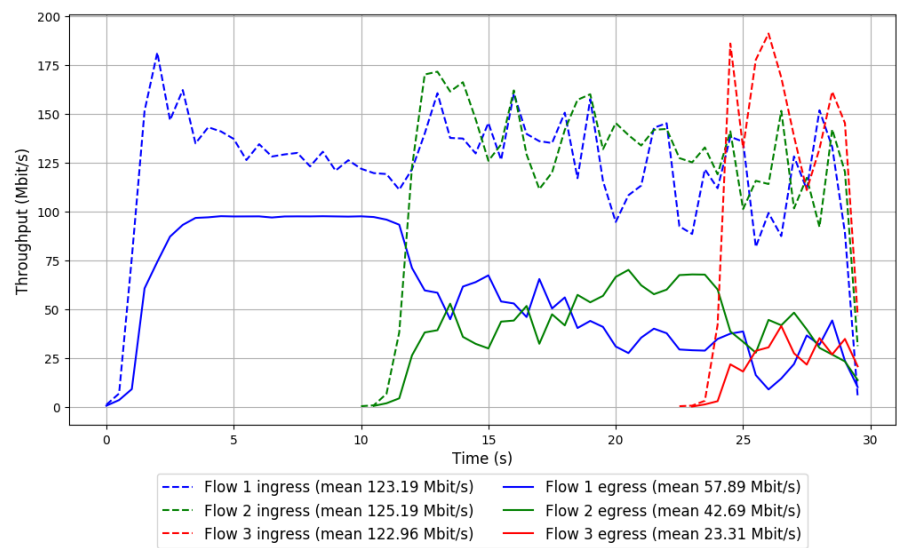


Run 6: Statistics of Indigo-1-32

Start at: 2018-04-17 19:06:25
End at: 2018-04-17 19:06:55
Local clock offset: 7.265 ms
Remote clock offset: -0.189 ms

Below is generated by plot.py at 2018-04-17 21:23:05
Datalink statistics
-- Total of 3 flows:
Average throughput: 90.71 Mbit/s
95th percentile per-packet one-way delay: 164.229 ms
Loss rate: 60.86%
-- Flow 1:
Average throughput: 57.89 Mbit/s
95th percentile per-packet one-way delay: 163.106 ms
Loss rate: 53.00%
-- Flow 2:
Average throughput: 42.69 Mbit/s
95th percentile per-packet one-way delay: 164.533 ms
Loss rate: 65.91%
-- Flow 3:
Average throughput: 23.31 Mbit/s
95th percentile per-packet one-way delay: 167.493 ms
Loss rate: 81.06%

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



Run 7: Statistics of Indigo-1-32

Start at: 2018-04-17 19:29:20

End at: 2018-04-17 19:29:50

Local clock offset: 11.495 ms

Remote clock offset: 0.875 ms

Below is generated by plot.py at 2018-04-17 21:23:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.91 Mbit/s

95th percentile per-packet one-way delay: 163.349 ms

Loss rate: 64.85%

-- Flow 1:

Average throughput: 59.81 Mbit/s

95th percentile per-packet one-way delay: 163.332 ms

Loss rate: 54.14%

-- Flow 2:

Average throughput: 28.04 Mbit/s

95th percentile per-packet one-way delay: 163.461 ms

Loss rate: 77.25%

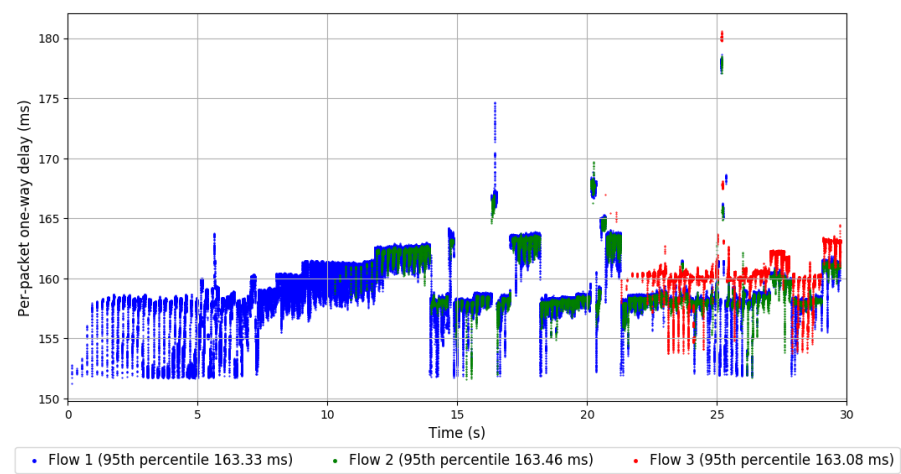
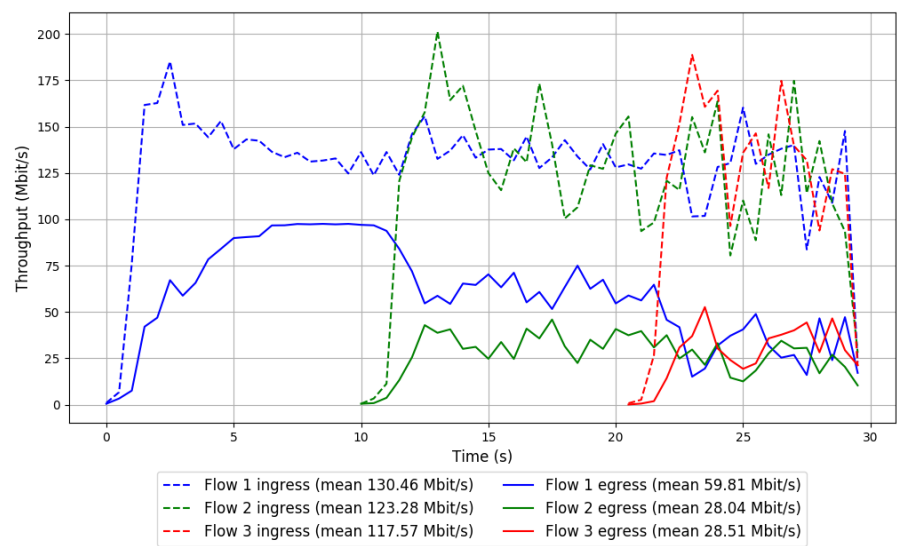
-- Flow 3:

Average throughput: 28.51 Mbit/s

95th percentile per-packet one-way delay: 163.079 ms

Loss rate: 75.76%

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

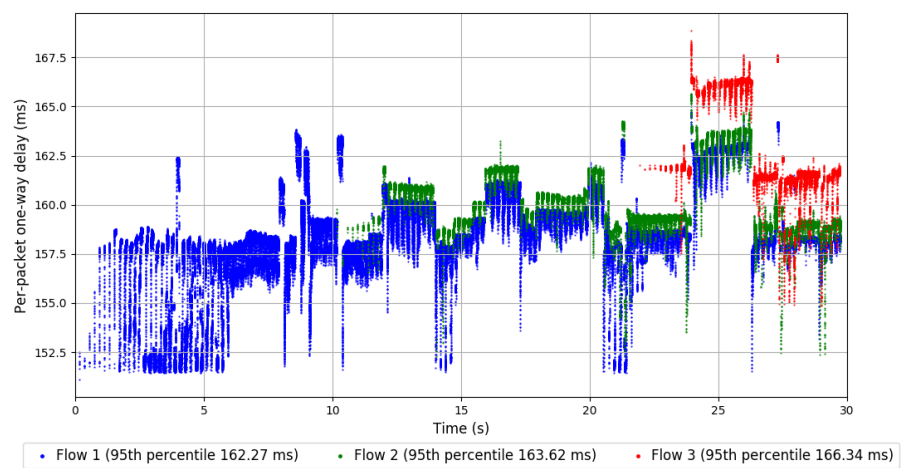
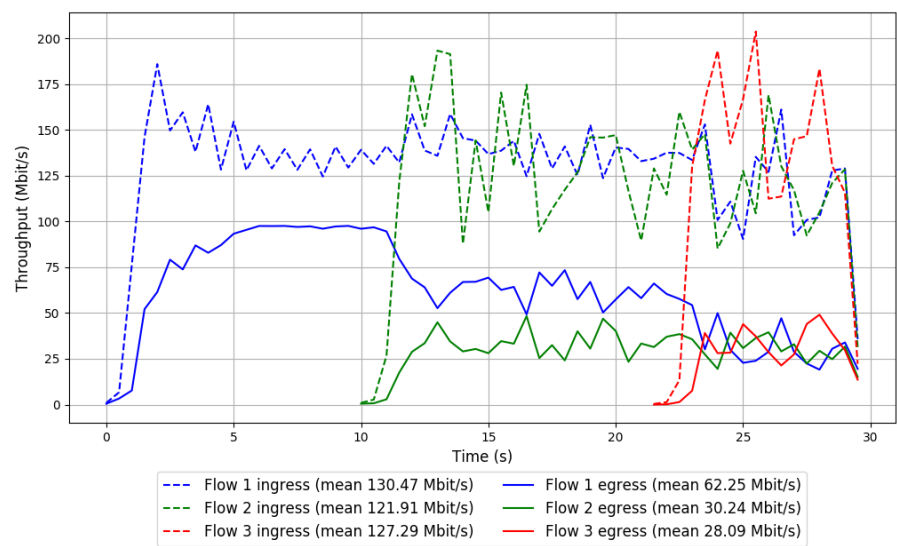


Run 8: Statistics of Indigo-1-32

Start at: 2018-04-17 19:52:14
End at: 2018-04-17 19:52:44
Local clock offset: 4.608 ms
Remote clock offset: -1.342 ms

Below is generated by plot.py at 2018-04-17 21:23:05
Datalink statistics
-- Total of 3 flows:
Average throughput: 89.62 Mbit/s
95th percentile per-packet one-way delay: 163.526 ms
Loss rate: 63.35%
-- Flow 1:
Average throughput: 62.25 Mbit/s
95th percentile per-packet one-way delay: 162.269 ms
Loss rate: 52.28%
-- Flow 2:
Average throughput: 30.24 Mbit/s
95th percentile per-packet one-way delay: 163.625 ms
Loss rate: 75.19%
-- Flow 3:
Average throughput: 28.09 Mbit/s
95th percentile per-packet one-way delay: 166.338 ms
Loss rate: 77.93%

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

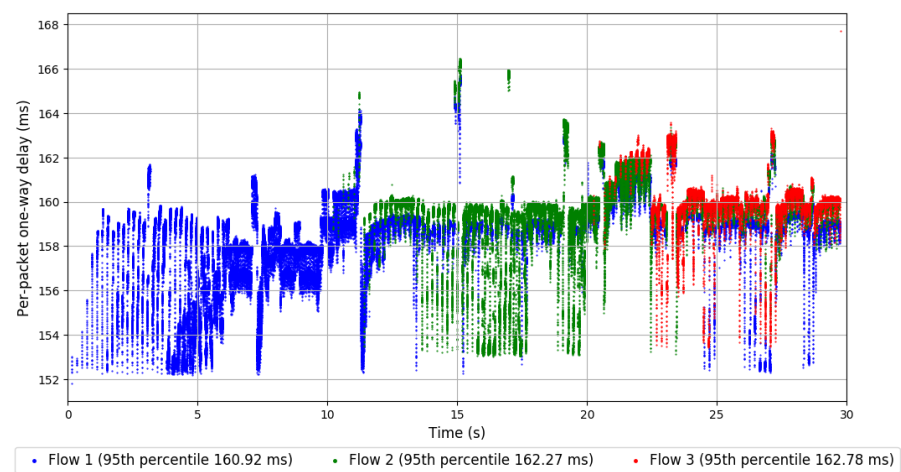
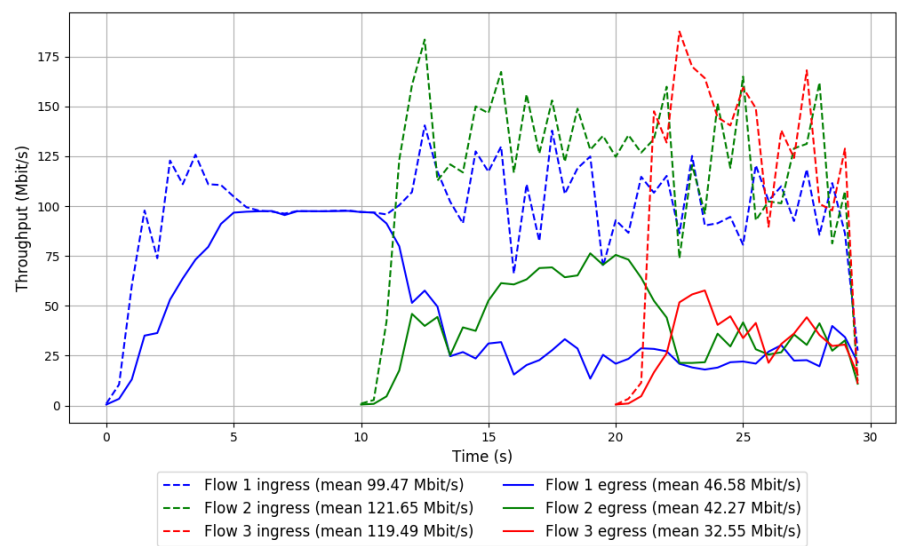


Run 9: Statistics of Indigo-1-32

Start at: 2018-04-17 20:15:06
End at: 2018-04-17 20:15:36
Local clock offset: 3.106 ms
Remote clock offset: -1.268 ms

Below is generated by plot.py at 2018-04-17 21:23:05
Datalink statistics
-- Total of 3 flows:
Average throughput: 84.82 Mbit/s
95th percentile per-packet one-way delay: 161.862 ms
Loss rate: 61.05%
-- Flow 1:
Average throughput: 46.58 Mbit/s
95th percentile per-packet one-way delay: 160.917 ms
Loss rate: 53.16%
-- Flow 2:
Average throughput: 42.27 Mbit/s
95th percentile per-packet one-way delay: 162.274 ms
Loss rate: 65.25%
-- Flow 3:
Average throughput: 32.55 Mbit/s
95th percentile per-packet one-way delay: 162.782 ms
Loss rate: 72.73%

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



Run 10: Statistics of Indigo-1-32

Start at: 2018-04-17 20:38:18

End at: 2018-04-17 20:38:48

Local clock offset: 5.209 ms

Remote clock offset: 1.25 ms

Below is generated by plot.py at 2018-04-17 21:23:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.40 Mbit/s

95th percentile per-packet one-way delay: 167.676 ms

Loss rate: 64.58%

-- Flow 1:

Average throughput: 50.40 Mbit/s

95th percentile per-packet one-way delay: 162.780 ms

Loss rate: 59.33%

-- Flow 2:

Average throughput: 48.76 Mbit/s

95th percentile per-packet one-way delay: 169.350 ms

Loss rate: 66.36%

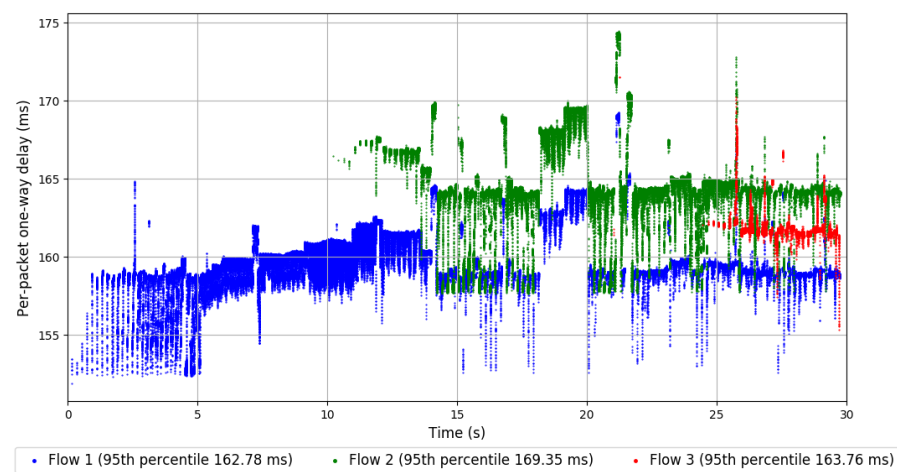
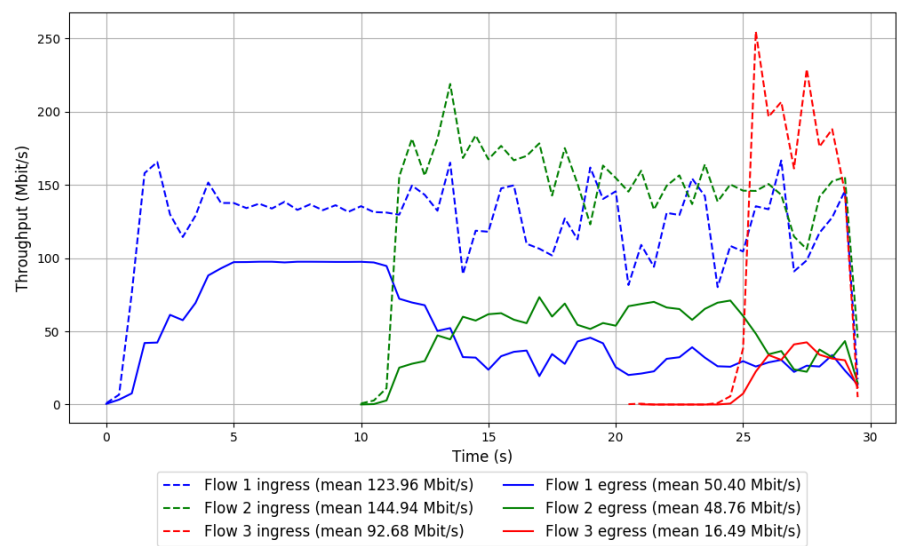
-- Flow 3:

Average throughput: 16.49 Mbit/s

95th percentile per-packet one-way delay: 163.763 ms

Loss rate: 82.21%

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

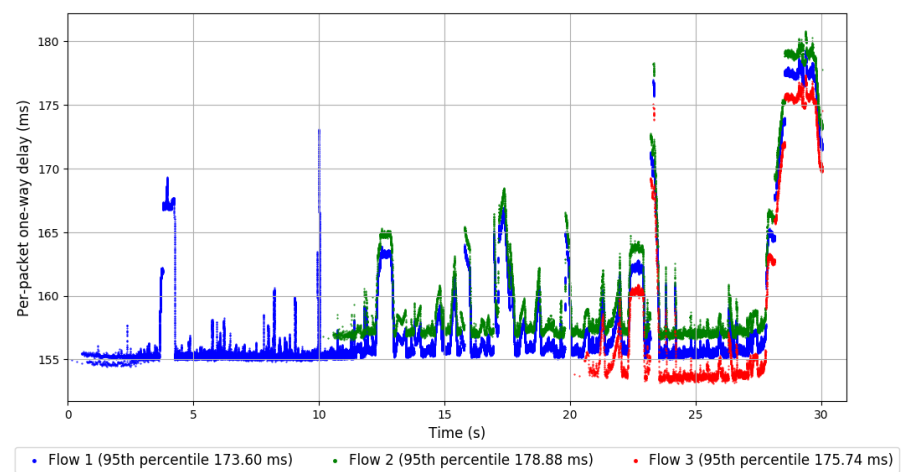
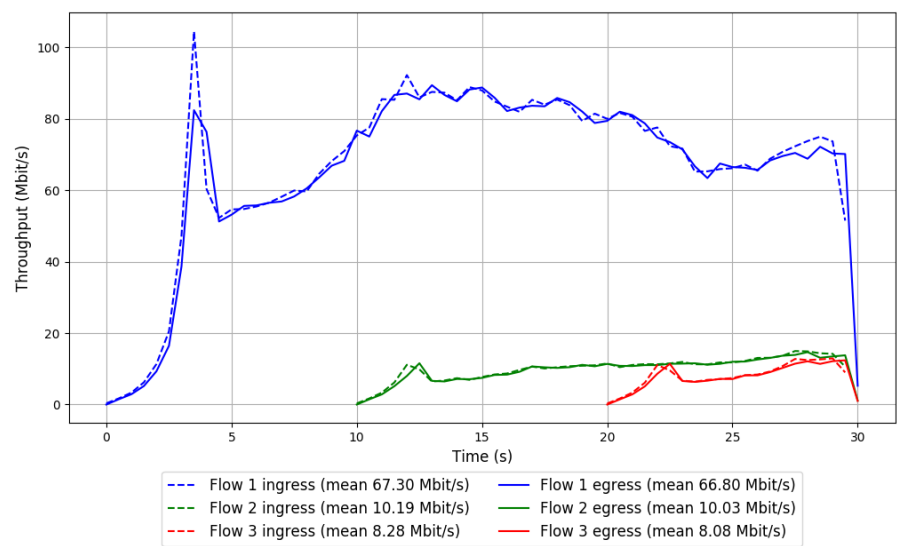


Run 1: Statistics of PCC-Vivace

Start at: 2018-04-17 16:54:14
End at: 2018-04-17 16:54:44
Local clock offset: 6.668 ms
Remote clock offset: -1.566 ms

Below is generated by plot.py at 2018-04-17 21:23:05
Datalink statistics
-- Total of 3 flows:
Average throughput: 76.13 Mbit/s
95th percentile per-packet one-way delay: 175.620 ms
Loss rate: 0.82%
-- Flow 1:
Average throughput: 66.80 Mbit/s
95th percentile per-packet one-way delay: 173.601 ms
Loss rate: 0.71%
-- Flow 2:
Average throughput: 10.03 Mbit/s
95th percentile per-packet one-way delay: 178.881 ms
Loss rate: 1.41%
-- Flow 3:
Average throughput: 8.08 Mbit/s
95th percentile per-packet one-way delay: 175.743 ms
Loss rate: 2.15%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

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

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

Local clock offset: 5.324 ms

Remote clock offset: 1.205 ms

Below is generated by plot.py at 2018-04-17 21:23:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 76.17 Mbit/s

95th percentile per-packet one-way delay: 170.898 ms

Loss rate: 1.07%

-- Flow 1:

Average throughput: 68.79 Mbit/s

95th percentile per-packet one-way delay: 170.962 ms

Loss rate: 1.01%

-- Flow 2:

Average throughput: 9.01 Mbit/s

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

Loss rate: 1.93%

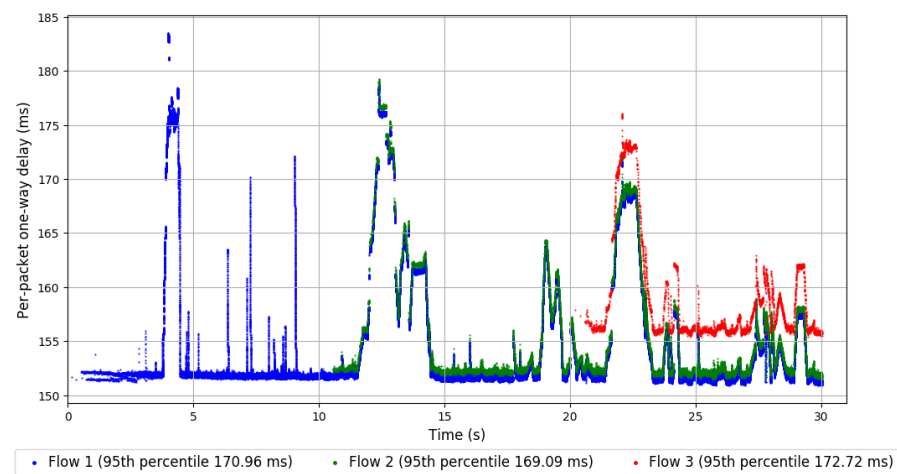
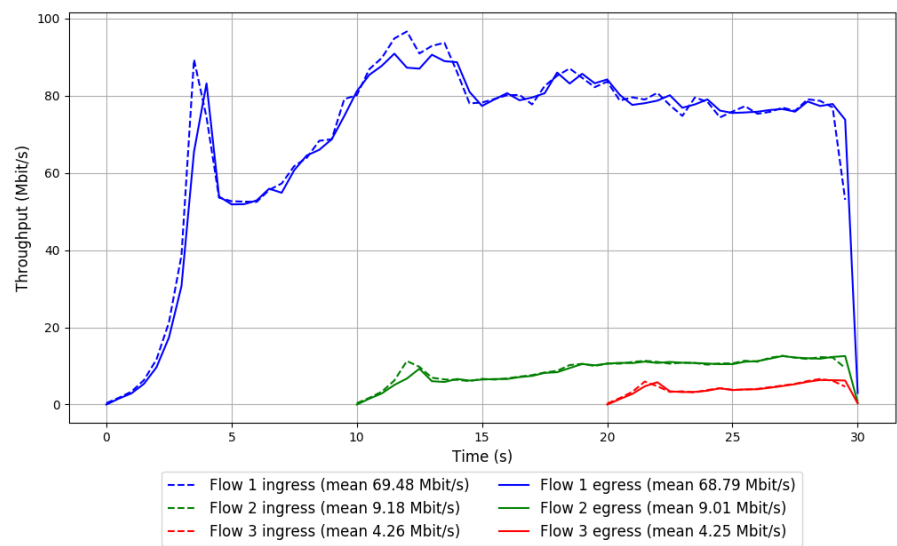
-- Flow 3:

Average throughput: 4.25 Mbit/s

95th percentile per-packet one-way delay: 172.715 ms

Loss rate: 0.28%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2018-04-17 17:40:09

End at: 2018-04-17 17:40:39

Local clock offset: 7.552 ms

Remote clock offset: 7.255 ms

Below is generated by plot.py at 2018-04-17 21:23:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 67.67 Mbit/s

95th percentile per-packet one-way delay: 172.567 ms

Loss rate: 0.62%

-- Flow 1:

Average throughput: 58.20 Mbit/s

95th percentile per-packet one-way delay: 172.451 ms

Loss rate: 0.64%

-- Flow 2:

Average throughput: 10.94 Mbit/s

95th percentile per-packet one-way delay: 173.071 ms

Loss rate: 0.54%

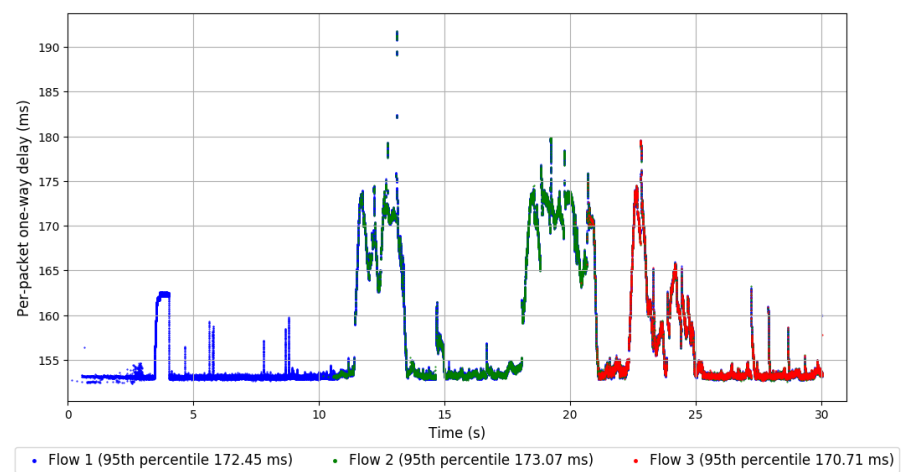
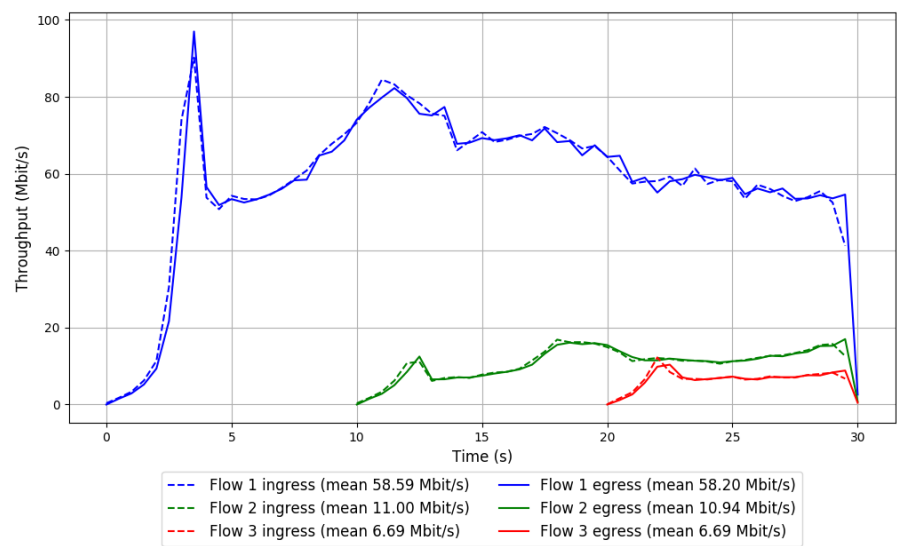
-- Flow 3:

Average throughput: 6.69 Mbit/s

95th percentile per-packet one-way delay: 170.712 ms

Loss rate: 0.16%

Run 3: Report of PCC-Vivace — Data Link

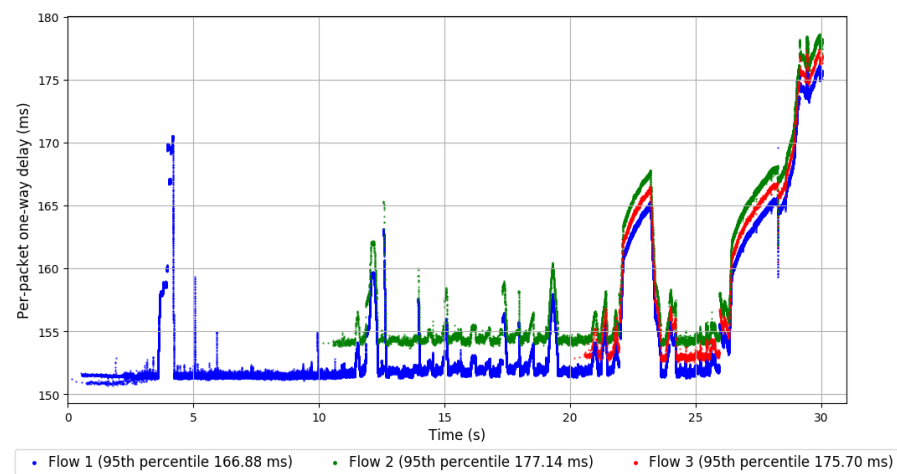
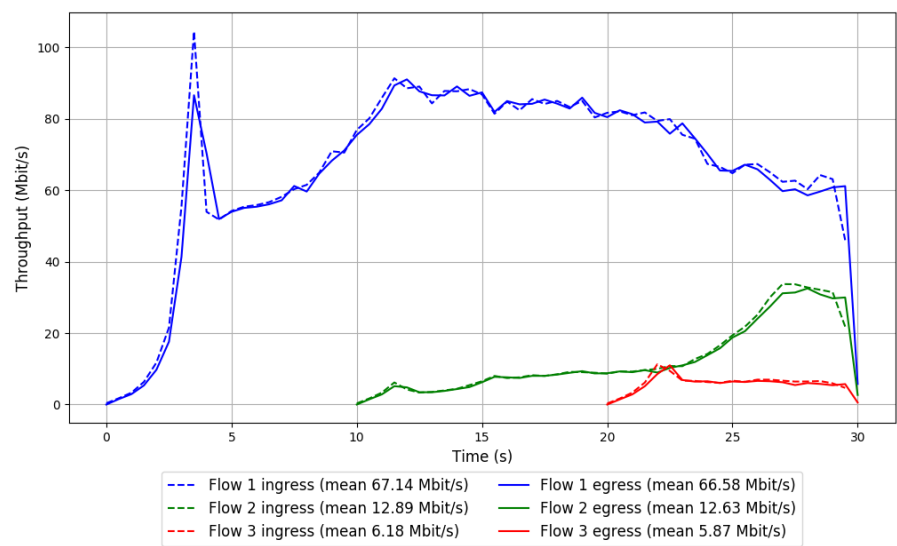


Run 4: Statistics of PCC-Vivace

Start at: 2018-04-17 18:03:04
End at: 2018-04-17 18:03:34
Local clock offset: 5.931 ms
Remote clock offset: -6.674 ms

Below is generated by plot.py at 2018-04-17 21:23:05
Datalink statistics
-- Total of 3 flows:
Average throughput: 76.92 Mbit/s
95th percentile per-packet one-way delay: 169.715 ms
Loss rate: 0.98%
-- Flow 1:
Average throughput: 66.58 Mbit/s
95th percentile per-packet one-way delay: 166.876 ms
Loss rate: 0.75%
-- Flow 2:
Average throughput: 12.63 Mbit/s
95th percentile per-packet one-way delay: 177.144 ms
Loss rate: 1.85%
-- Flow 3:
Average throughput: 5.87 Mbit/s
95th percentile per-packet one-way delay: 175.696 ms
Loss rate: 4.71%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2018-04-17 18:25:44

End at: 2018-04-17 18:26:14

Local clock offset: 3.998 ms

Remote clock offset: 2.627 ms

Below is generated by plot.py at 2018-04-17 21:23:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 76.35 Mbit/s

95th percentile per-packet one-way delay: 170.311 ms

Loss rate: 0.36%

-- Flow 1:

Average throughput: 69.05 Mbit/s

95th percentile per-packet one-way delay: 170.570 ms

Loss rate: 0.34%

-- Flow 2:

Average throughput: 9.62 Mbit/s

95th percentile per-packet one-way delay: 169.190 ms

Loss rate: 0.64%

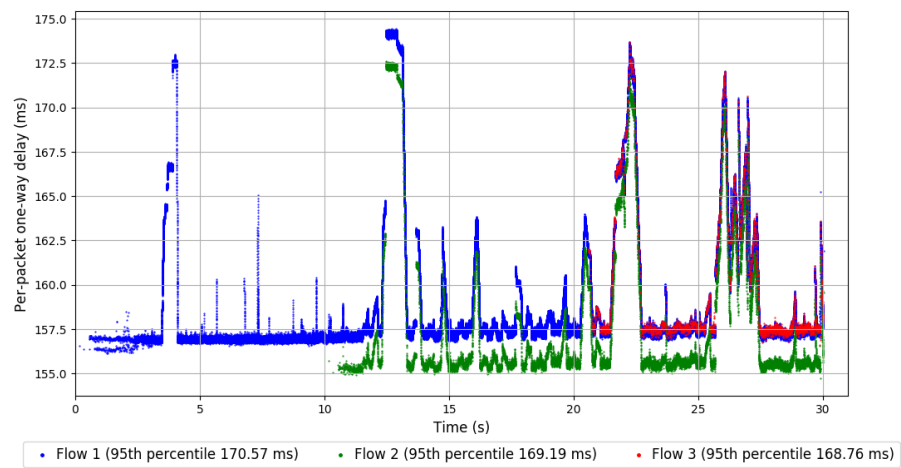
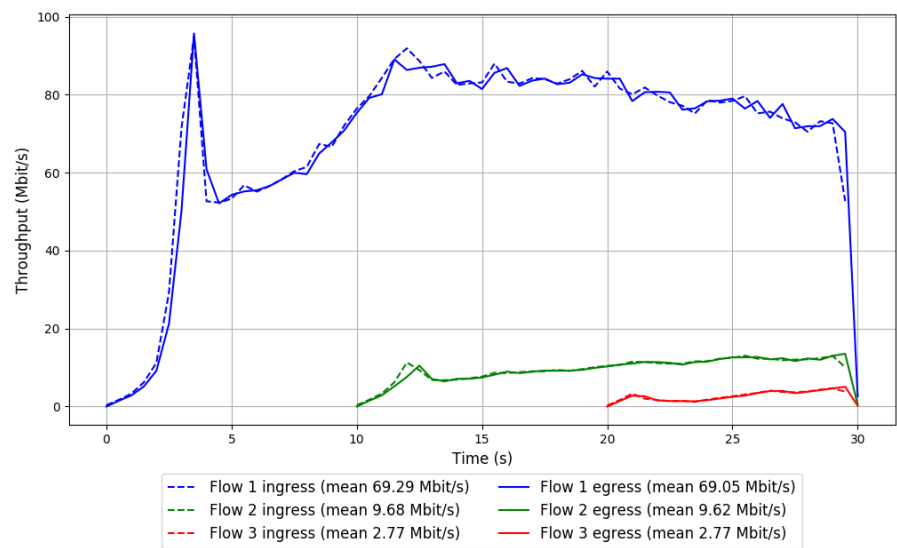
-- Flow 3:

Average throughput: 2.77 Mbit/s

95th percentile per-packet one-way delay: 168.756 ms

Loss rate: 0.04%

Run 5: Report of PCC-Vivace — Data Link



Run 6: Statistics of PCC-Vivace

Start at: 2018-04-17 18:48:45

End at: 2018-04-17 18:49:15

Local clock offset: 5.733 ms

Remote clock offset: 1.762 ms

Below is generated by plot.py at 2018-04-17 21:23:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 74.73 Mbit/s

95th percentile per-packet one-way delay: 166.395 ms

Loss rate: 0.27%

-- Flow 1:

Average throughput: 63.78 Mbit/s

95th percentile per-packet one-way delay: 166.253 ms

Loss rate: 0.29%

-- Flow 2:

Average throughput: 14.66 Mbit/s

95th percentile per-packet one-way delay: 165.369 ms

Loss rate: 0.18%

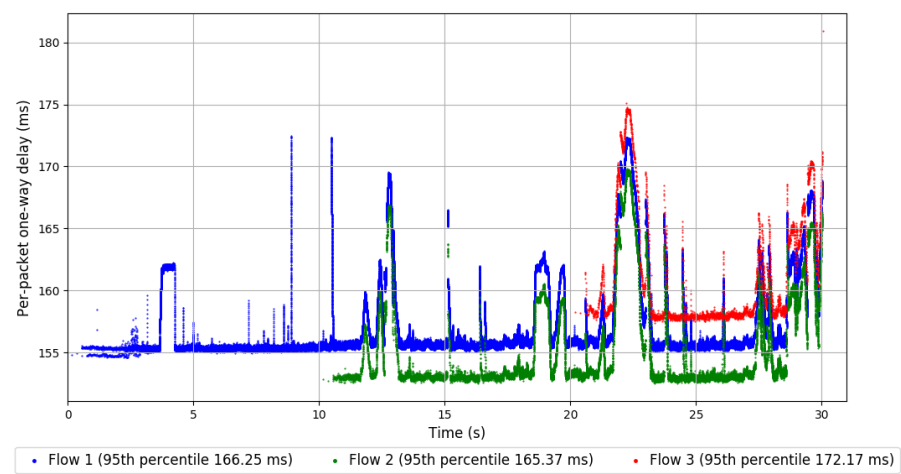
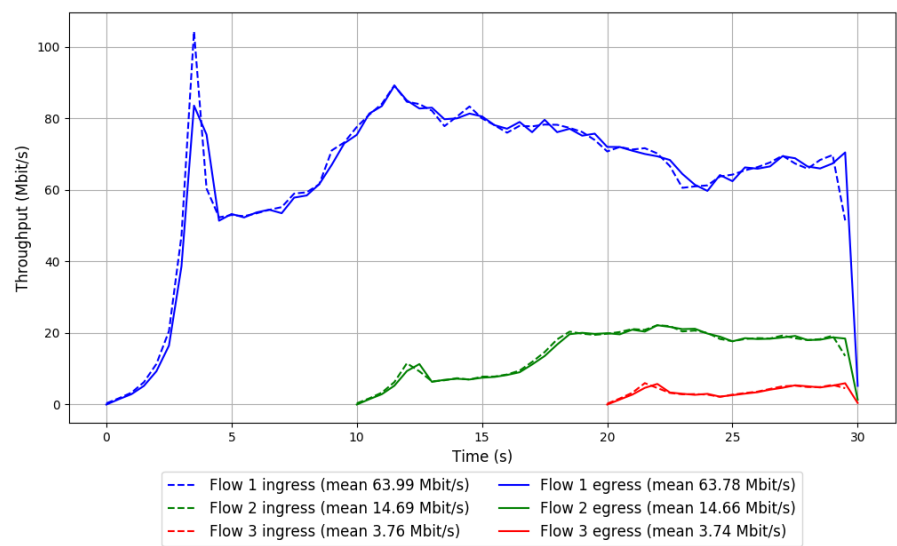
-- Flow 3:

Average throughput: 3.74 Mbit/s

95th percentile per-packet one-way delay: 172.174 ms

Loss rate: 0.25%

Run 6: Report of PCC-Vivace — Data Link



Run 7: Statistics of PCC-Vivace

Start at: 2018-04-17 19:11:50

End at: 2018-04-17 19:12:21

Local clock offset: 8.999 ms

Remote clock offset: -0.53 ms

Below is generated by plot.py at 2018-04-17 21:23:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 75.12 Mbit/s

95th percentile per-packet one-way delay: 170.668 ms

Loss rate: 0.95%

-- Flow 1:

Average throughput: 62.42 Mbit/s

95th percentile per-packet one-way delay: 171.128 ms

Loss rate: 0.92%

-- Flow 2:

Average throughput: 15.98 Mbit/s

95th percentile per-packet one-way delay: 169.542 ms

Loss rate: 1.26%

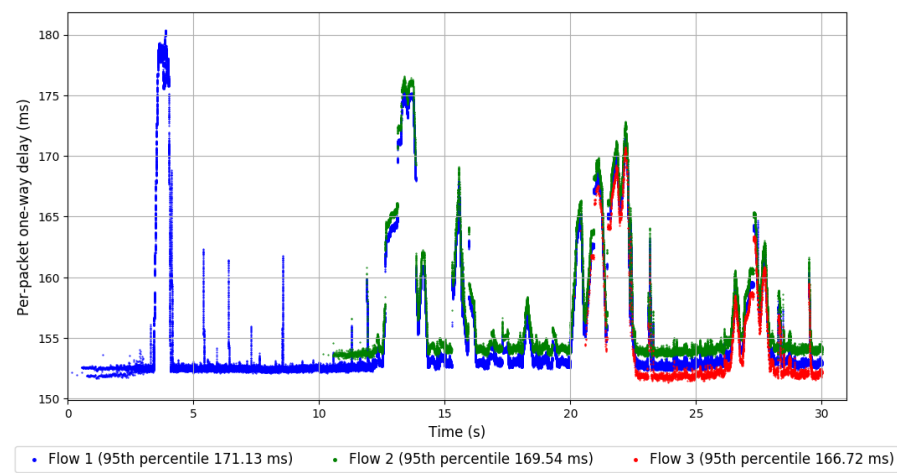
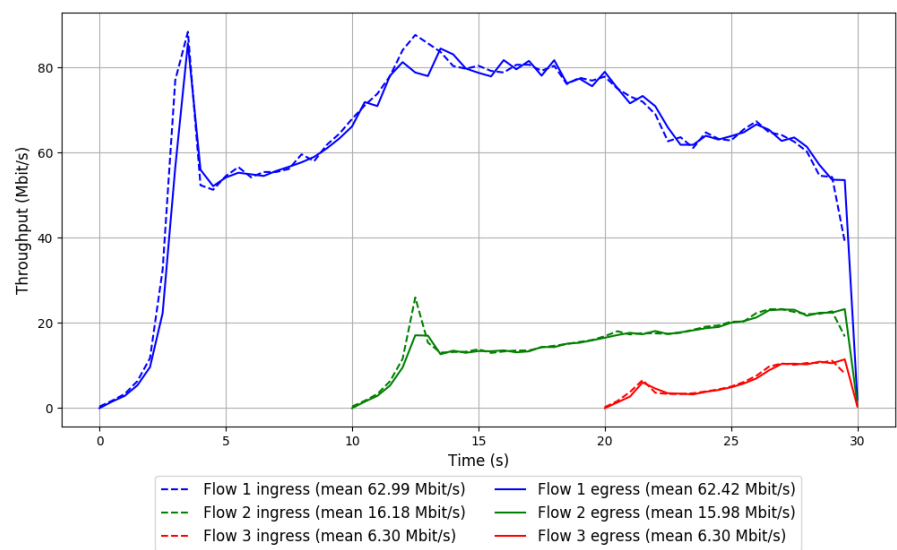
-- Flow 3:

Average throughput: 6.30 Mbit/s

95th percentile per-packet one-way delay: 166.716 ms

Loss rate: 0.17%

Run 7: Report of PCC-Vivace — Data Link

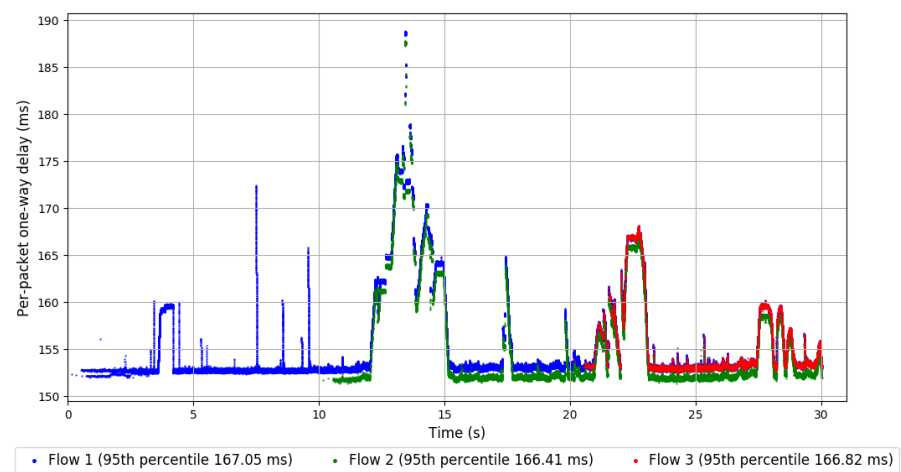
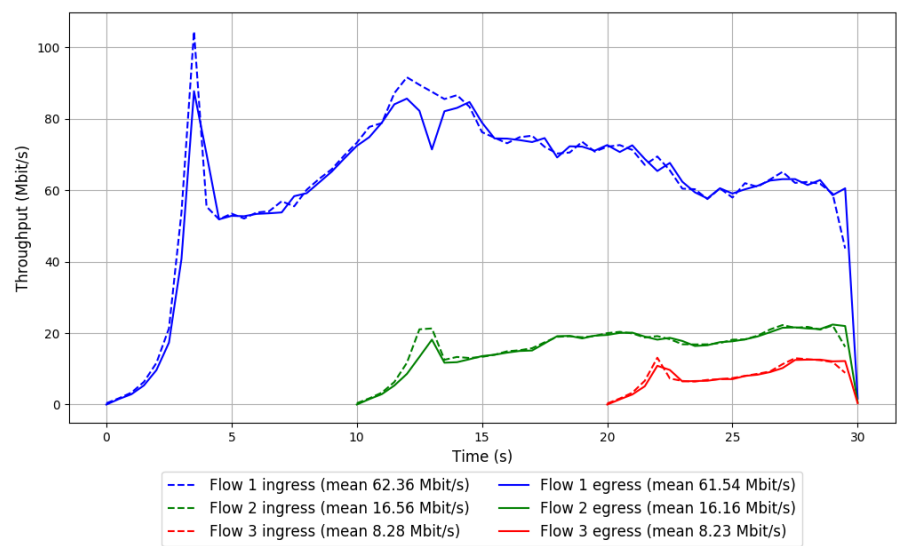


Run 8: Statistics of PCC-Vivace

Start at: 2018-04-17 19:34:44
End at: 2018-04-17 19:35:15
Local clock offset: 11.9 ms
Remote clock offset: -1.596 ms

Below is generated by plot.py at 2018-04-17 21:23:05
Datalink statistics
-- Total of 3 flows:
Average throughput: 74.99 Mbit/s
95th percentile per-packet one-way delay: 166.981 ms
Loss rate: 1.45%
-- Flow 1:
Average throughput: 61.54 Mbit/s
95th percentile per-packet one-way delay: 167.052 ms
Loss rate: 1.31%
-- Flow 2:
Average throughput: 16.16 Mbit/s
95th percentile per-packet one-way delay: 166.415 ms
Loss rate: 2.43%
-- Flow 3:
Average throughput: 8.23 Mbit/s
95th percentile per-packet one-way delay: 166.825 ms
Loss rate: 0.63%

Run 8: Report of PCC-Vivace — Data Link

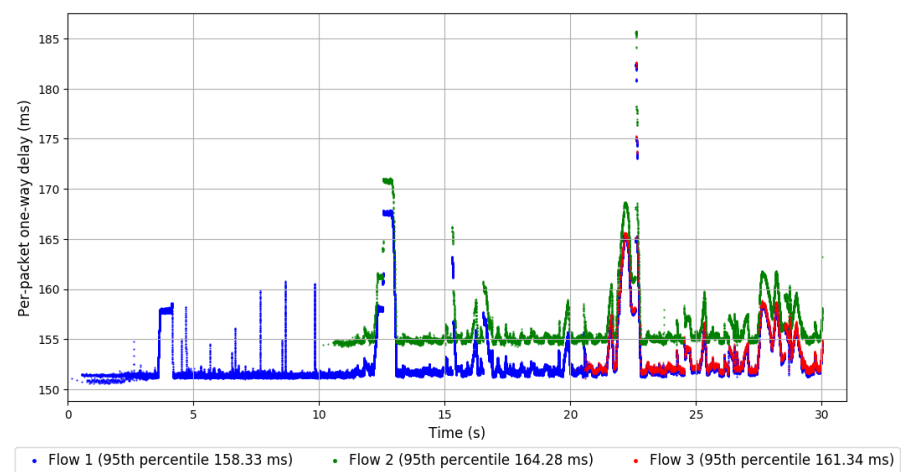
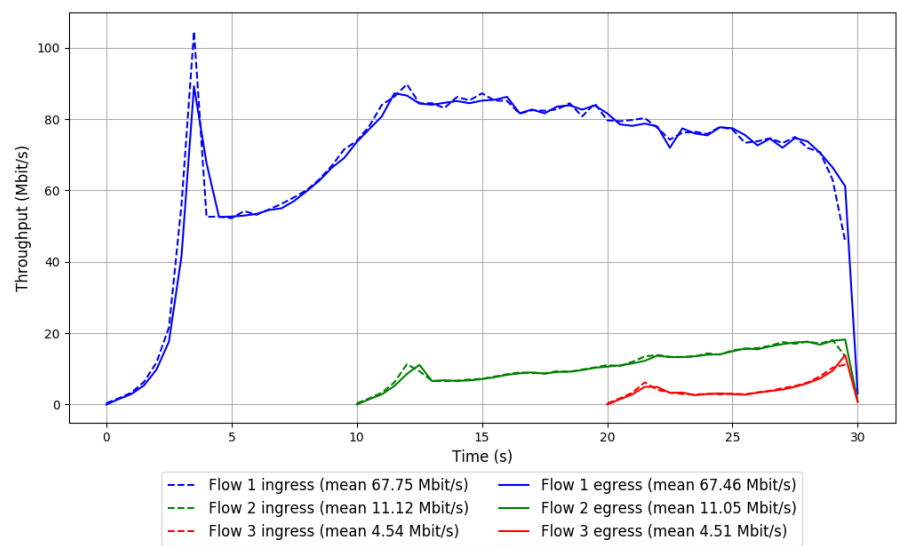


Run 9: Statistics of PCC-Vivace

Start at: 2018-04-17 19:57:41
End at: 2018-04-17 19:58:11
Local clock offset: 3.71 ms
Remote clock offset: -1.696 ms

Below is generated by plot.py at 2018-04-17 21:23:06
Datalink statistics
-- Total of 3 flows:
Average throughput: 76.28 Mbit/s
95th percentile per-packet one-way delay: 159.870 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 67.46 Mbit/s
95th percentile per-packet one-way delay: 158.332 ms
Loss rate: 0.42%
-- Flow 2:
Average throughput: 11.05 Mbit/s
95th percentile per-packet one-way delay: 164.279 ms
Loss rate: 0.55%
-- Flow 3:
Average throughput: 4.51 Mbit/s
95th percentile per-packet one-way delay: 161.341 ms
Loss rate: 0.63%

Run 9: Report of PCC-Vivace — Data Link

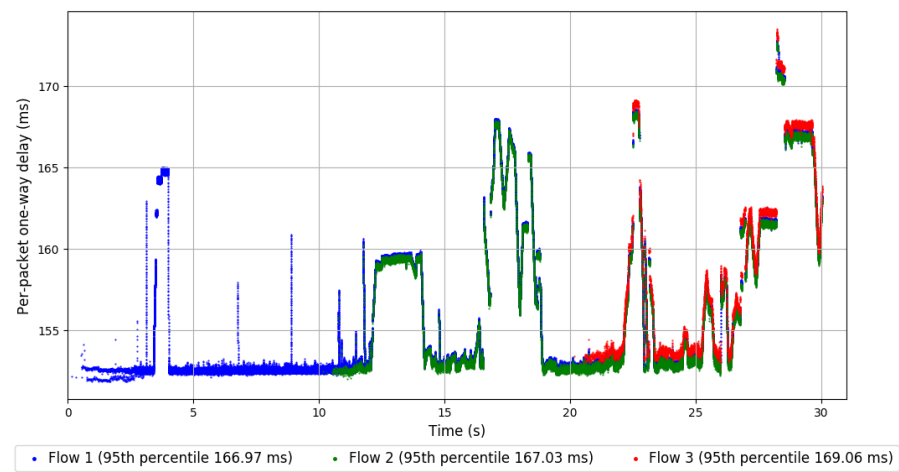
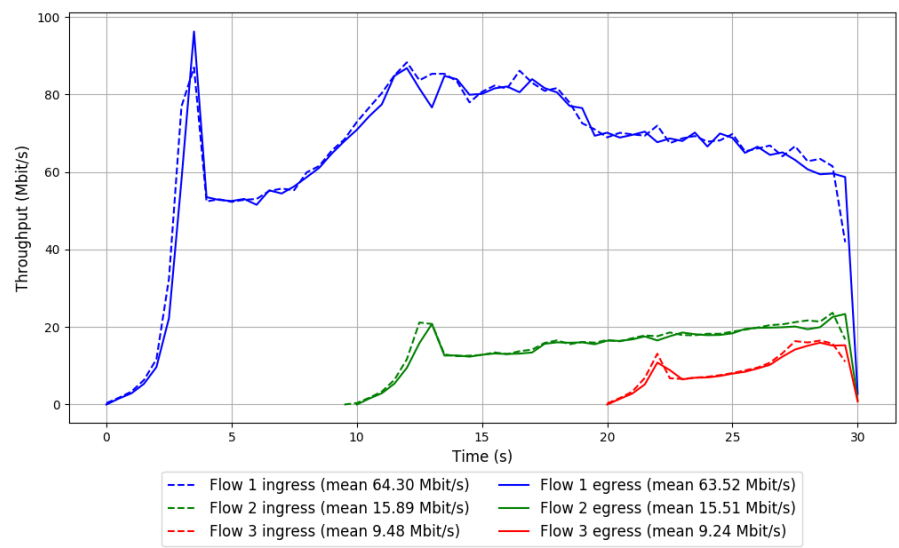


Run 10: Statistics of PCC-Vivace

Start at: 2018-04-17 20:20:31
End at: 2018-04-17 20:21:01
Local clock offset: 4.086 ms
Remote clock offset: -1.212 ms

Below is generated by plot.py at 2018-04-17 21:23:07
Datalink statistics
-- Total of 3 flows:
Average throughput: 76.89 Mbit/s
95th percentile per-packet one-way delay: 167.053 ms
Loss rate: 1.38%
-- Flow 1:
Average throughput: 63.52 Mbit/s
95th percentile per-packet one-way delay: 166.972 ms
Loss rate: 1.17%
-- Flow 2:
Average throughput: 15.51 Mbit/s
95th percentile per-packet one-way delay: 167.028 ms
Loss rate: 2.33%
-- Flow 3:
Average throughput: 9.24 Mbit/s
95th percentile per-packet one-way delay: 169.058 ms
Loss rate: 2.51%

Run 10: Report of PCC-Vivace — Data Link



Run 1: Statistics of PCC-Expr

Start at: 2018-04-17 17:07:41
End at: 2018-04-17 17:08:11
Local clock offset: 5.702 ms
Remote clock offset: -3.294 ms

Run 1: Report of PCC-Expr — Data Link

Figure is missing

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Run 2: Statistics of PCC-Expr

Start at: 2018-04-17 17:30:41

End at: 2018-04-17 17:31:11

Local clock offset: 6.831 ms

Remote clock offset: 1.77 ms

Run 2: Report of PCC-Expr — Data Link

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Run 3: Statistics of PCC-Expr

Start at: 2018-04-17 17:53:37

End at: 2018-04-17 17:54:08

Local clock offset: 8.004 ms

Remote clock offset: 4.261 ms

Run 3: Report of PCC-Expr — Data Link

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Run 4: Statistics of PCC-Expr

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

End at: 2018-04-17 18:16:47

Local clock offset: 4.568 ms

Remote clock offset: 3.891 ms

Run 4: Report of PCC-Expr — Data Link

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Figure is missing

Run 5: Statistics of PCC-Expr

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

End at: 2018-04-17 18:39:46

Local clock offset: 5.322 ms

Remote clock offset: 1.627 ms

Run 5: Report of PCC-Expr — Data Link

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Figure is missing

Run 6: Statistics of PCC-Expr

Start at: 2018-04-17 19:02:20

End at: 2018-04-17 19:02:50

Local clock offset: 6.198 ms

Remote clock offset: 0.313 ms

Run 6: Report of PCC-Expr — Data Link

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Figure is missing

Run 7: Statistics of PCC-Expr

Start at: 2018-04-17 19:25:18

End at: 2018-04-17 19:25:48

Local clock offset: 10.932 ms

Remote clock offset: -1.016 ms

Run 7: Report of PCC-Expr — Data Link

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Figure is missing

Run 8: Statistics of PCC-Expr

Start at: 2018-04-17 19:48:06

End at: 2018-04-17 19:48:36

Local clock offset: 5.696 ms

Remote clock offset: -1.004 ms

Run 8: Report of PCC-Expr — Data Link

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Figure is missing

Run 9: Statistics of PCC-Expr

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

End at: 2018-04-17 20:11:34

Local clock offset: 2.153 ms

Remote clock offset: -1.321 ms

Run 9: Report of PCC-Expr — Data Link

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Figure is missing

Run 10: Statistics of PCC-Expr

Start at: 2018-04-17 20:33:59

End at: 2018-04-17 20:34:29

Local clock offset: 5.122 ms

Remote clock offset: -1.32 ms

Run 10: Report of PCC-Expr — Data Link

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