

Pantheon Report

Generated at 2018-04-17 20:18:36 (UTC).

Data path: AWS Brazil 1 Ethernet (*local*) → Brazil Ethernet (*remote*).

Repeated the test of 16 congestion control schemes 10 times.

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

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

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

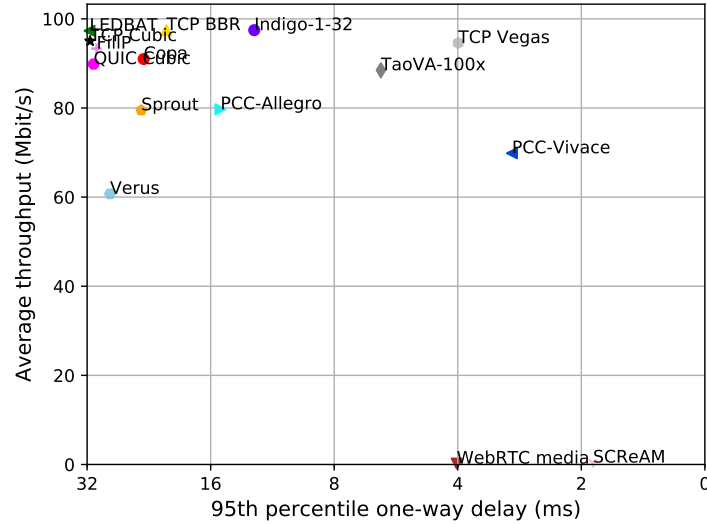
NTP offsets were measured against `gps.ntp.br` and have been applied to correct the timestamps in logs.

Git summary:

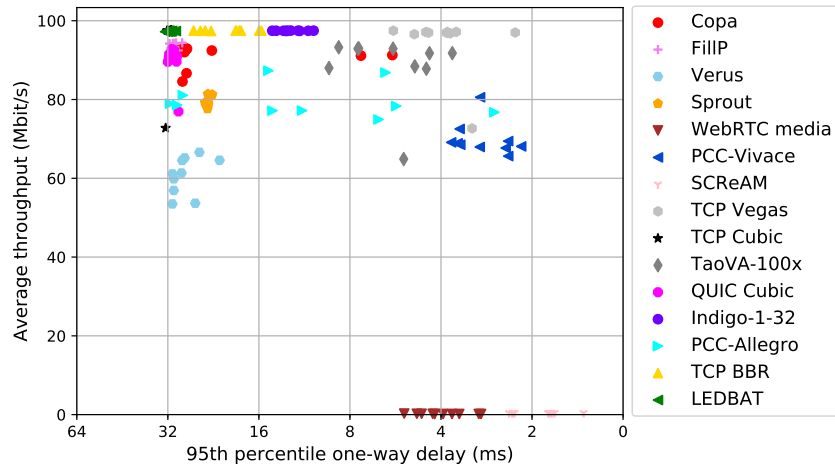
```
branch: master @ b3d6e7098641364fd3a292656a51aa81e316d0b4
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
M datagrump/sender.cc
third_party/fillp @ 11f8c46a2bf1dc797253db7e8ca04076272b2a44
third_party/genericCC @ d223989828276fa83a807da6e0341dc0c7b89aec
third_party/indigo @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

third_party/webrtc @ f271183af822eee5d0031620f4bebf38aedc5581

test from AWS Brazil 1 Ethernet to Brazil Ethernet, 10 runs of 30s each per scheme
3 flows with 10s interval between flows (mean of all runs by scheme)



test from AWS Brazil 1 Ethernet to Brazil Ethernet, 10 runs of 30s each per scheme
3 flows with 10s interval between flows

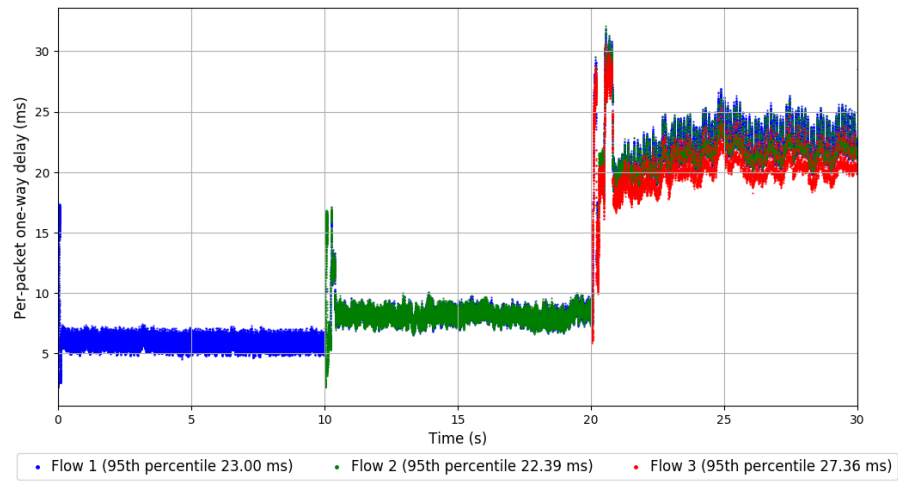
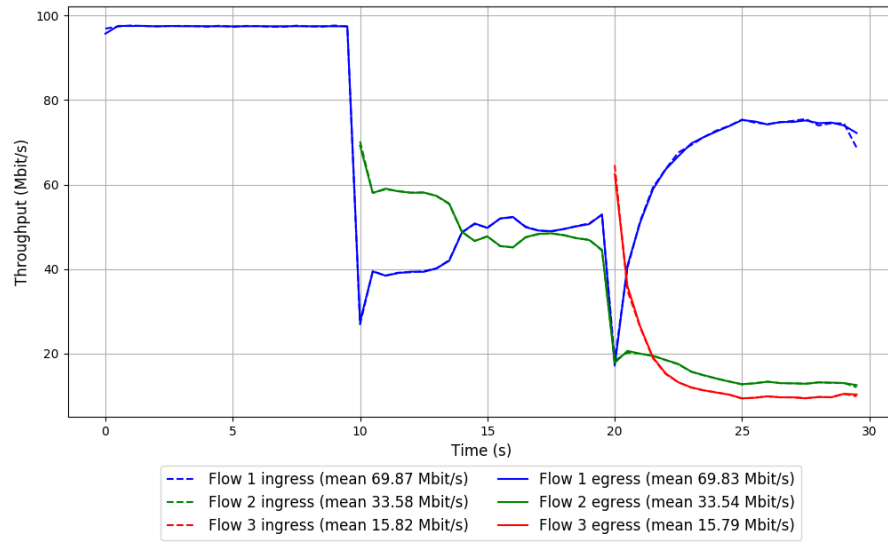


Run 1: Statistics of TCP BBR

Start at: 2018-04-17 16:28:39
End at: 2018-04-17 16:29:09
Local clock offset: -6.135 ms
Remote clock offset: -7.315 ms

Below is generated by plot.py at 2018-04-17 19:54:02
Datalink statistics
-- Total of 3 flows:
Average throughput: 97.40 Mbit/s
95th percentile per-packet one-way delay: 23.025 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 69.83 Mbit/s
95th percentile per-packet one-way delay: 22.996 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 33.54 Mbit/s
95th percentile per-packet one-way delay: 22.395 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 15.79 Mbit/s
95th percentile per-packet one-way delay: 27.357 ms
Loss rate: 0.00%

Run 1: Report of TCP BBR — Data Link

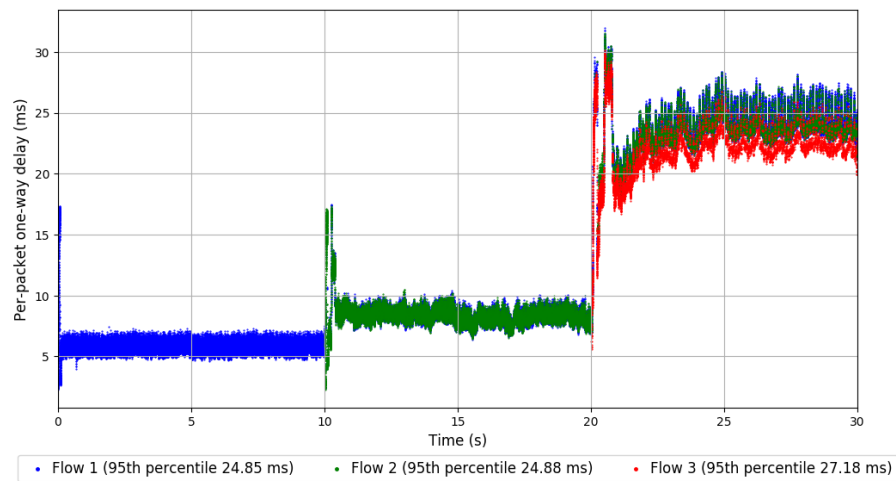
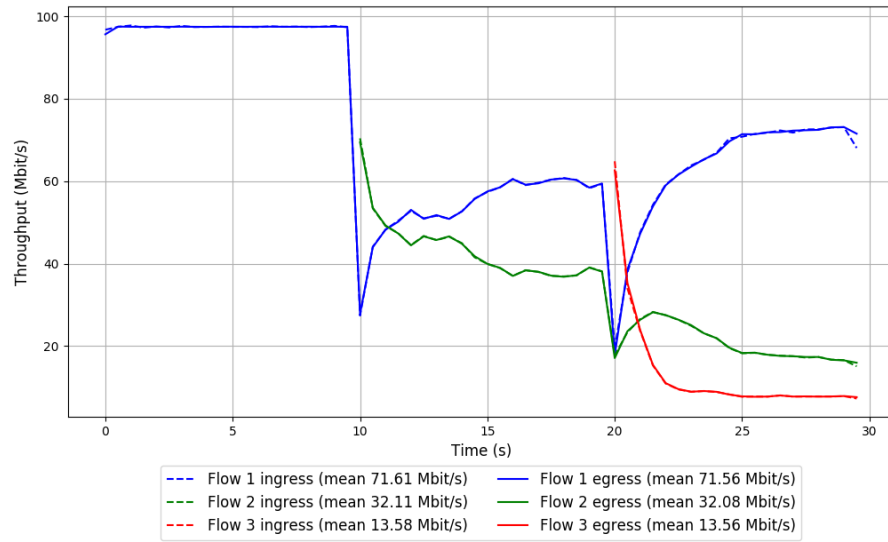


Run 2: Statistics of TCP BBR

Start at: 2018-04-17 16:47:50
End at: 2018-04-17 16:48:20
Local clock offset: -6.113 ms
Remote clock offset: -6.777 ms

Below is generated by plot.py at 2018-04-17 19:54:07
Datalink statistics
-- Total of 3 flows:
Average throughput: 97.45 Mbit/s
95th percentile per-packet one-way delay: 24.975 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 71.56 Mbit/s
95th percentile per-packet one-way delay: 24.848 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 32.08 Mbit/s
95th percentile per-packet one-way delay: 24.880 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 13.56 Mbit/s
95th percentile per-packet one-way delay: 27.184 ms
Loss rate: 0.00%

Run 2: Report of TCP BBR — Data Link

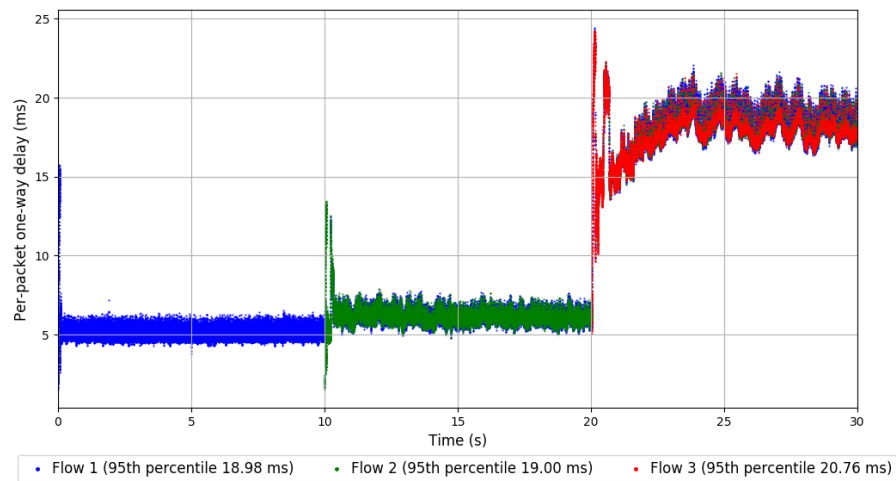
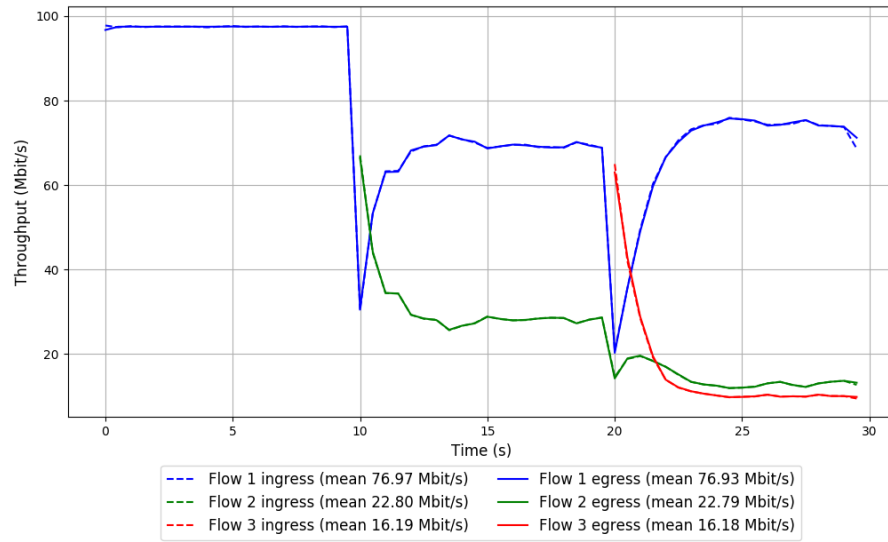


Run 3: Statistics of TCP BBR

Start at: 2018-04-17 17:07:03
End at: 2018-04-17 17:07:33
Local clock offset: -6.886 ms
Remote clock offset: -6.851 ms

Below is generated by plot.py at 2018-04-17 19:54:07
Datalink statistics
-- Total of 3 flows:
Average throughput: 97.48 Mbit/s
95th percentile per-packet one-way delay: 19.099 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 76.93 Mbit/s
95th percentile per-packet one-way delay: 18.979 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 22.79 Mbit/s
95th percentile per-packet one-way delay: 19.002 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 16.18 Mbit/s
95th percentile per-packet one-way delay: 20.757 ms
Loss rate: 0.00%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-04-17 17:26:13

End at: 2018-04-17 17:26:43

Local clock offset: -5.268 ms

Remote clock offset: -6.96 ms

Below is generated by plot.py at 2018-04-17 19:54:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.51 Mbit/s

95th percentile per-packet one-way delay: 18.587 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 73.26 Mbit/s

95th percentile per-packet one-way delay: 18.470 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 28.43 Mbit/s

95th percentile per-packet one-way delay: 18.118 ms

Loss rate: 0.00%

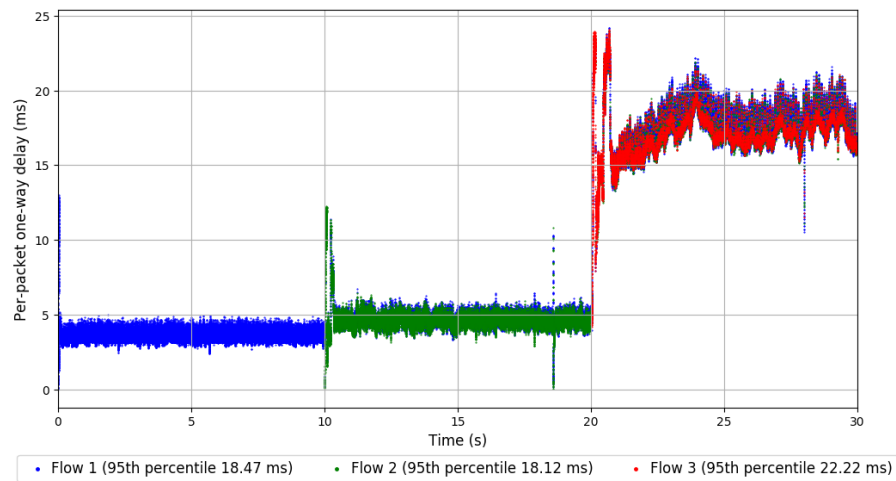
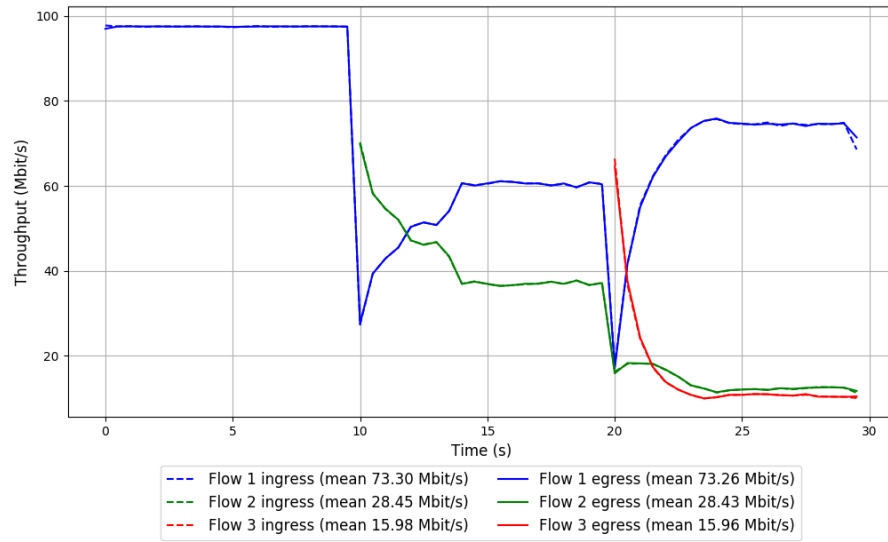
-- Flow 3:

Average throughput: 15.96 Mbit/s

95th percentile per-packet one-way delay: 22.224 ms

Loss rate: 0.00%

Run 4: Report of TCP BBR — Data Link

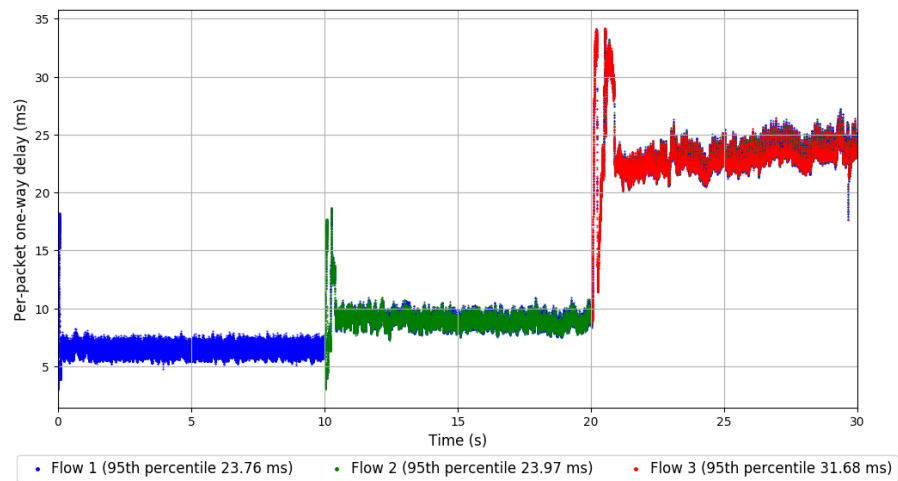
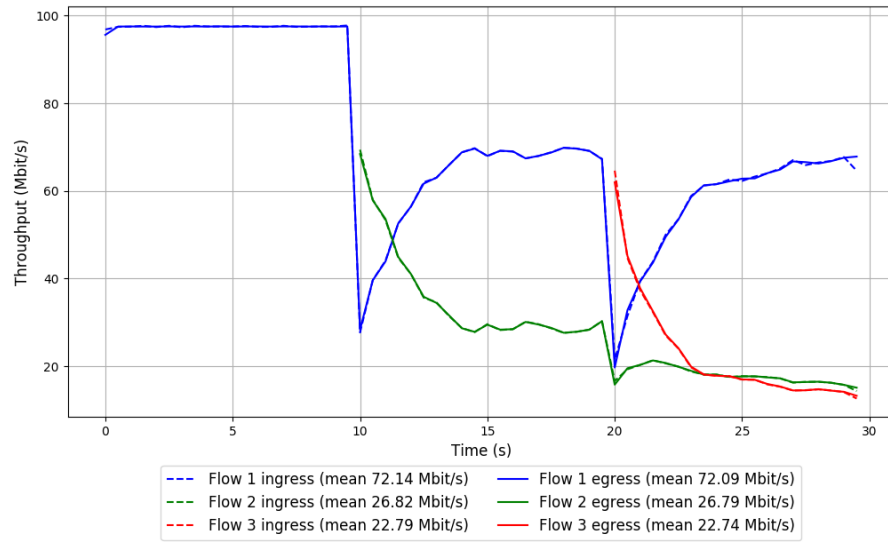


Run 5: Statistics of TCP BBR

Start at: 2018-04-17 17:45:24
End at: 2018-04-17 17:45:54
Local clock offset: -6.737 ms
Remote clock offset: -6.882 ms

Below is generated by plot.py at 2018-04-17 19:54:07
Datalink statistics
-- Total of 3 flows:
Average throughput: 97.49 Mbit/s
95th percentile per-packet one-way delay: 24.069 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 72.09 Mbit/s
95th percentile per-packet one-way delay: 23.756 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 26.79 Mbit/s
95th percentile per-packet one-way delay: 23.974 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 22.74 Mbit/s
95th percentile per-packet one-way delay: 31.679 ms
Loss rate: 0.05%

Run 5: Report of TCP BBR — Data Link

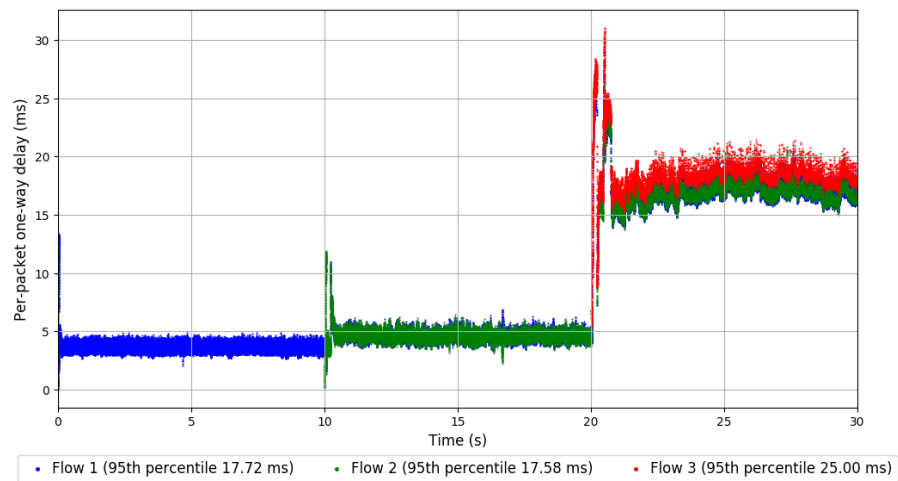
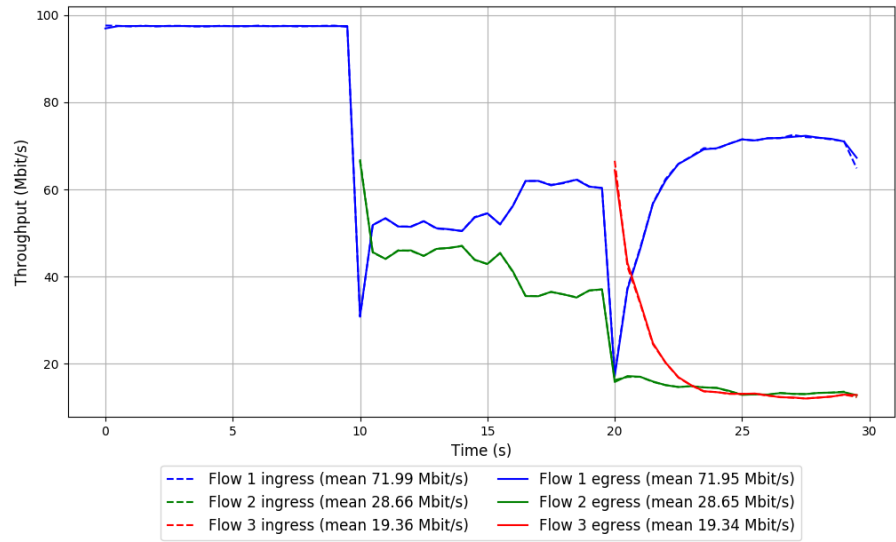


Run 6: Statistics of TCP BBR

Start at: 2018-04-17 18:04:35
End at: 2018-04-17 18:05:05
Local clock offset: -5.106 ms
Remote clock offset: -6.832 ms

Below is generated by plot.py at 2018-04-17 19:54:07
Datalink statistics
-- Total of 3 flows:
Average throughput: 97.46 Mbit/s
95th percentile per-packet one-way delay: 18.340 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 71.95 Mbit/s
95th percentile per-packet one-way delay: 17.721 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 28.65 Mbit/s
95th percentile per-packet one-way delay: 17.579 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 19.34 Mbit/s
95th percentile per-packet one-way delay: 24.995 ms
Loss rate: 0.00%

Run 6: Report of TCP BBR — Data Link

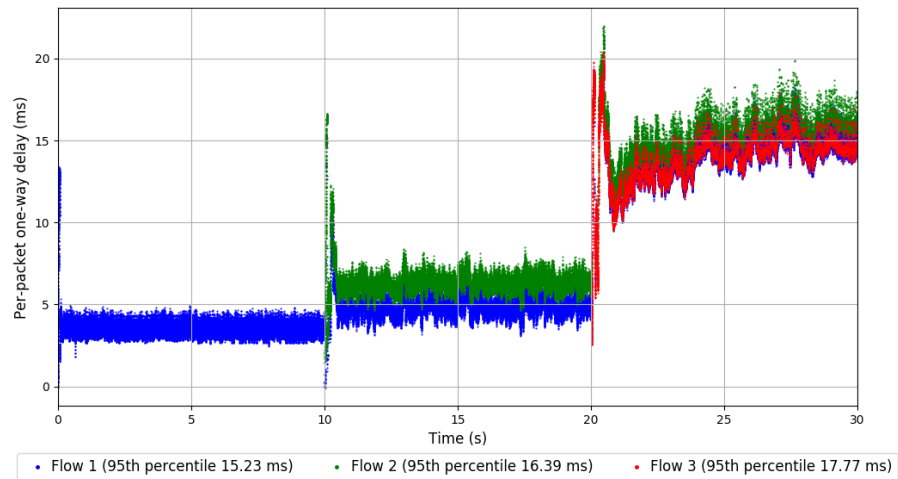
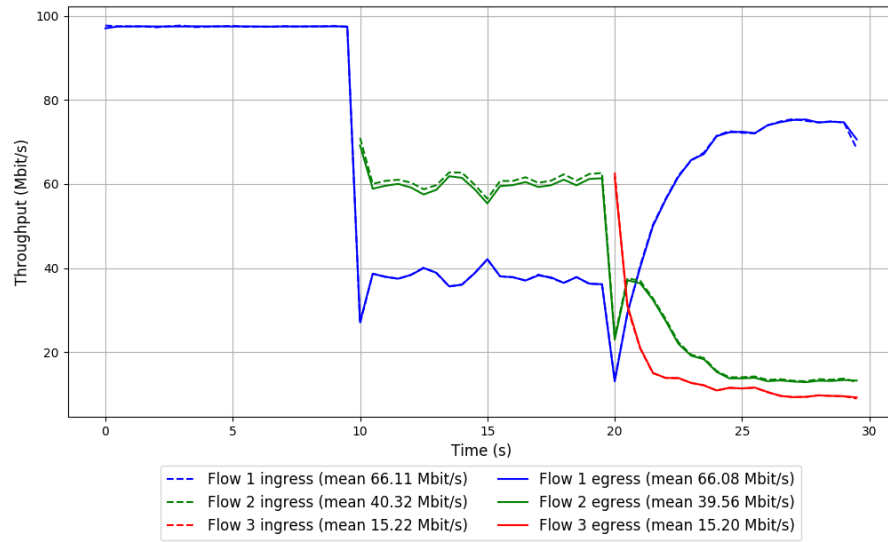


Run 7: Statistics of TCP BBR

Start at: 2018-04-17 18:23:47
End at: 2018-04-17 18:24:17
Local clock offset: -5.011 ms
Remote clock offset: -2.159 ms

Below is generated by plot.py at 2018-04-17 19:54:07
Datalink statistics
-- Total of 3 flows:
Average throughput: 97.47 Mbit/s
95th percentile per-packet one-way delay: 15.709 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 66.08 Mbit/s
95th percentile per-packet one-way delay: 15.228 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 39.56 Mbit/s
95th percentile per-packet one-way delay: 16.391 ms
Loss rate: 1.82%
-- Flow 3:
Average throughput: 15.20 Mbit/s
95th percentile per-packet one-way delay: 17.770 ms
Loss rate: 0.00%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-04-17 18:42:58

End at: 2018-04-17 18:43:28

Local clock offset: -6.05 ms

Remote clock offset: 0.304 ms

Below is generated by plot.py at 2018-04-17 19:54:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.50 Mbit/s

95th percentile per-packet one-way delay: 26.304 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 63.80 Mbit/s

95th percentile per-packet one-way delay: 26.204 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 41.87 Mbit/s

95th percentile per-packet one-way delay: 26.226 ms

Loss rate: 0.02%

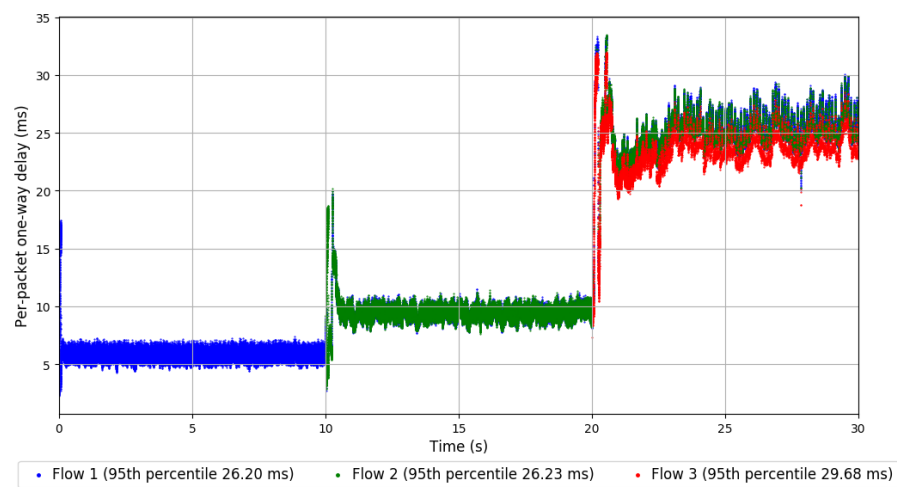
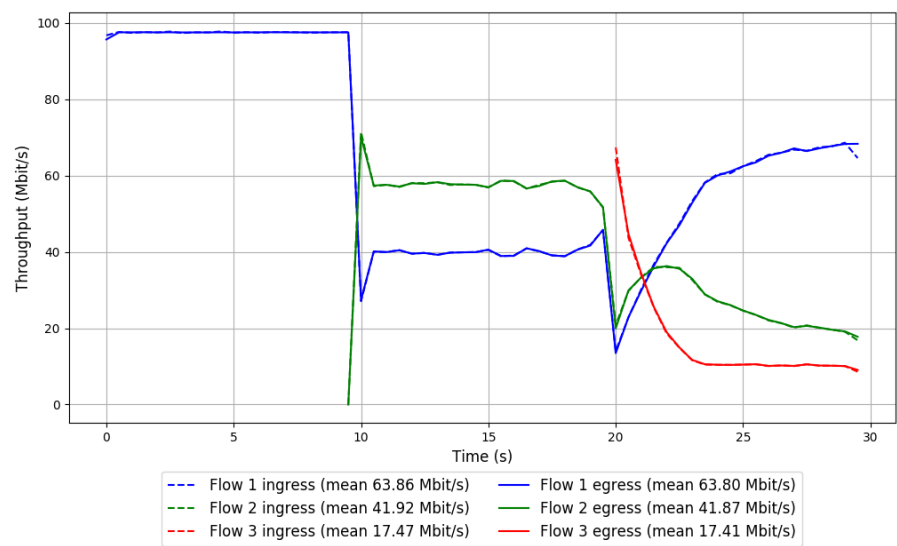
-- Flow 3:

Average throughput: 17.41 Mbit/s

95th percentile per-packet one-way delay: 29.685 ms

Loss rate: 0.17%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-04-17 19:02:46

End at: 2018-04-17 19:03:16

Local clock offset: -6.049 ms

Remote clock offset: 2.184 ms

Below is generated by plot.py at 2018-04-17 19:55:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.51 Mbit/s

95th percentile per-packet one-way delay: 19.014 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 74.92 Mbit/s

95th percentile per-packet one-way delay: 18.915 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 25.79 Mbit/s

95th percentile per-packet one-way delay: 18.607 ms

Loss rate: 0.00%

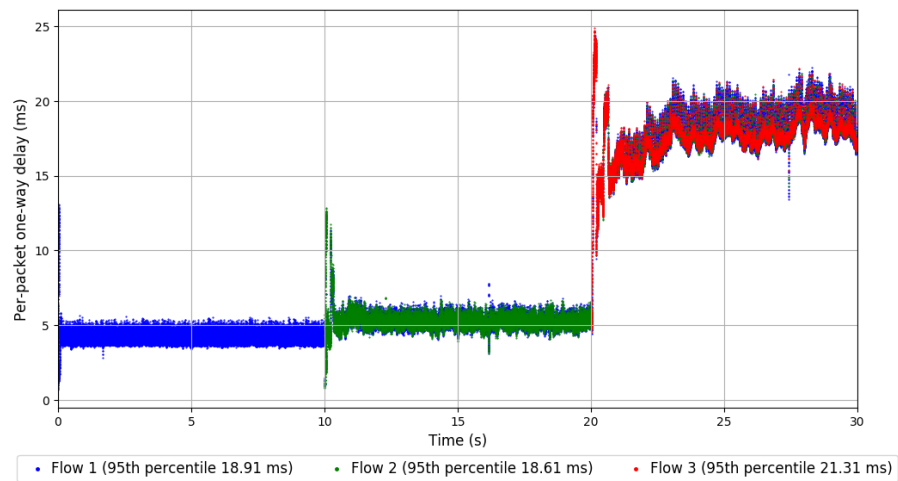
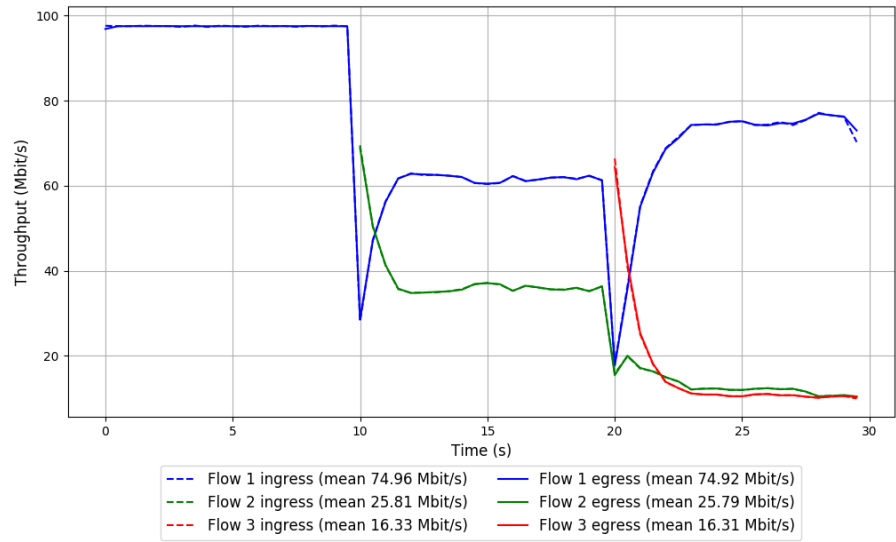
-- Flow 3:

Average throughput: 16.31 Mbit/s

95th percentile per-packet one-way delay: 21.309 ms

Loss rate: 0.00%

Run 9: Report of TCP BBR — Data Link

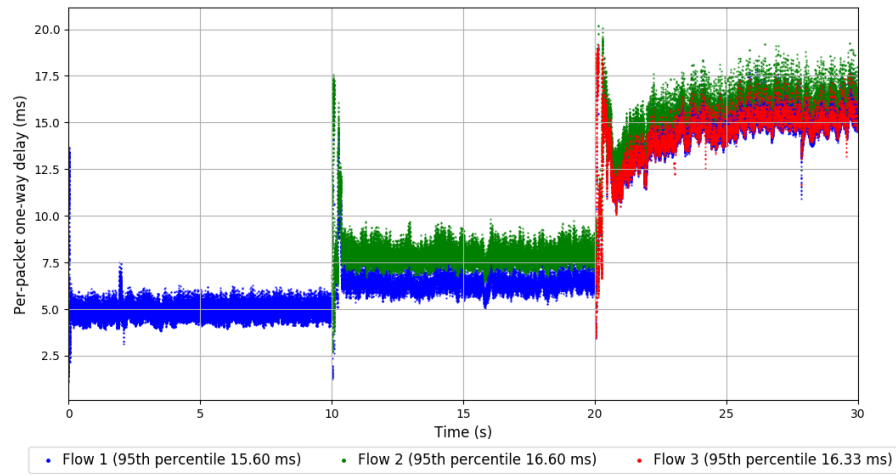
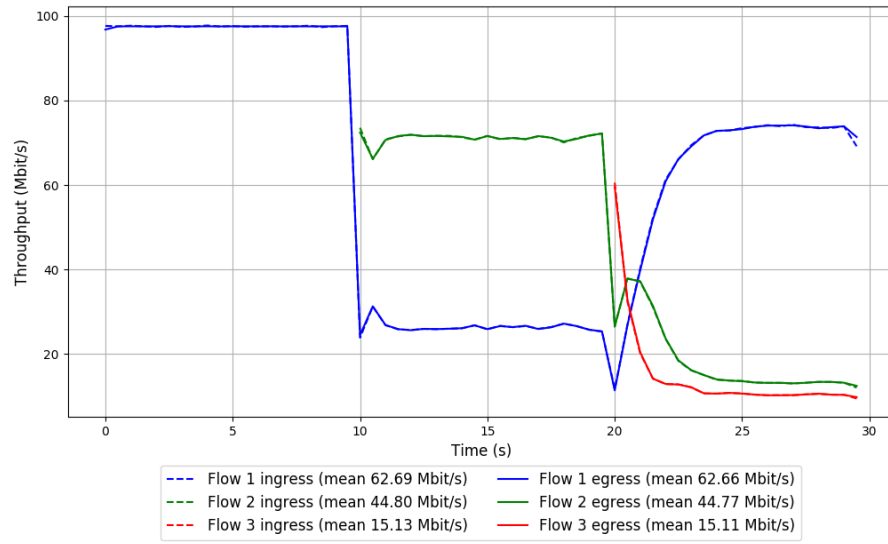


Run 10: Statistics of TCP BBR

Start at: 2018-04-17 19:21:59
End at: 2018-04-17 19:22:29
Local clock offset: -5.893 ms
Remote clock offset: -0.553 ms

Below is generated by plot.py at 2018-04-17 19:55:31
Datalink statistics
-- Total of 3 flows:
Average throughput: 97.51 Mbit/s
95th percentile per-packet one-way delay: 15.958 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 62.66 Mbit/s
95th percentile per-packet one-way delay: 15.599 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 44.77 Mbit/s
95th percentile per-packet one-way delay: 16.600 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 15.11 Mbit/s
95th percentile per-packet one-way delay: 16.332 ms
Loss rate: 0.00%

Run 10: Report of TCP BBR — Data Link

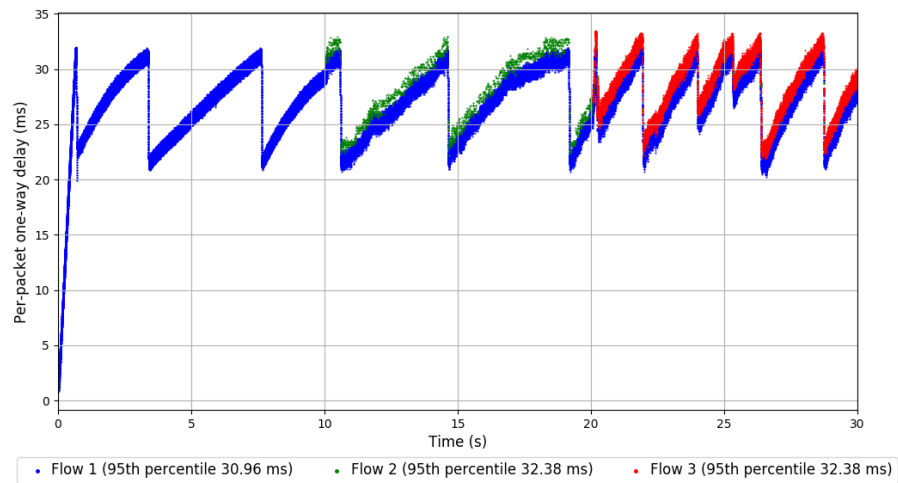
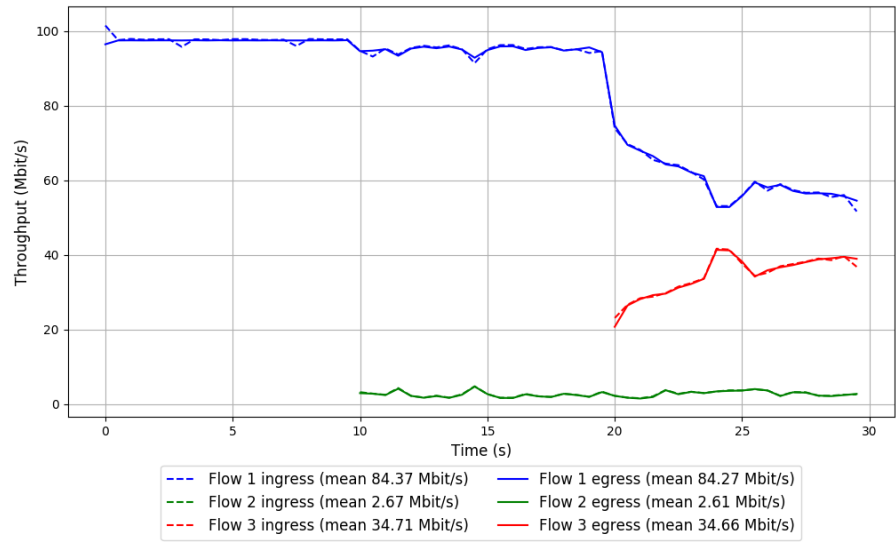


Run 1: Statistics of TCP Cubic

Start at: 2018-04-17 16:17:31
End at: 2018-04-17 16:18:01
Local clock offset: -6.214 ms
Remote clock offset: -7.207 ms

Below is generated by plot.py at 2018-04-17 19:55:33
Datalink statistics
-- Total of 3 flows:
Average throughput: 97.51 Mbit/s
95th percentile per-packet one-way delay: 31.192 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 84.27 Mbit/s
95th percentile per-packet one-way delay: 30.962 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 2.61 Mbit/s
95th percentile per-packet one-way delay: 32.385 ms
Loss rate: 2.12%
-- Flow 3:
Average throughput: 34.66 Mbit/s
95th percentile per-packet one-way delay: 32.376 ms
Loss rate: 0.16%

Run 1: Report of TCP Cubic — Data Link

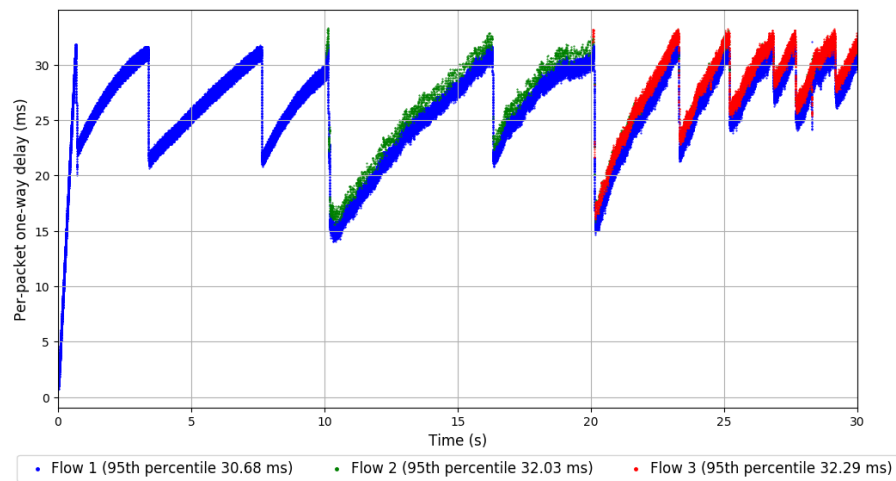
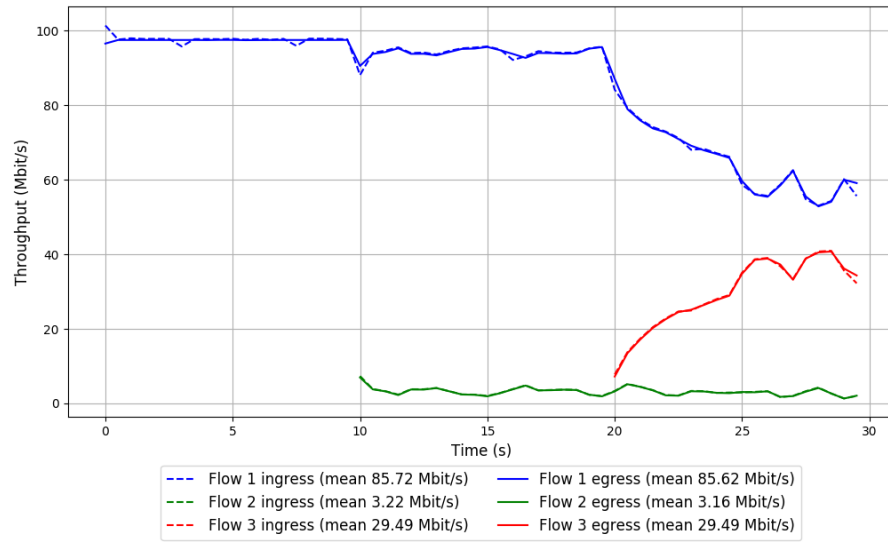


Run 2: Statistics of TCP Cubic

Start at: 2018-04-17 16:36:43
End at: 2018-04-17 16:37:13
Local clock offset: -6.068 ms
Remote clock offset: -6.948 ms

Below is generated by plot.py at 2018-04-17 19:55:34
Datalink statistics
-- Total of 3 flows:
Average throughput: 97.50 Mbit/s
95th percentile per-packet one-way delay: 31.040 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 85.62 Mbit/s
95th percentile per-packet one-way delay: 30.684 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 3.16 Mbit/s
95th percentile per-packet one-way delay: 32.031 ms
Loss rate: 1.83%
-- Flow 3:
Average throughput: 29.49 Mbit/s
95th percentile per-packet one-way delay: 32.293 ms
Loss rate: 0.03%

Run 2: Report of TCP Cubic — Data Link

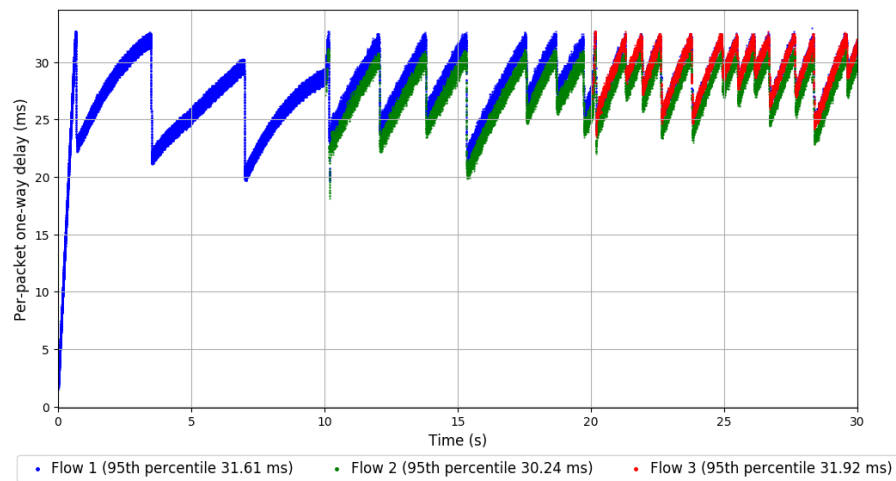
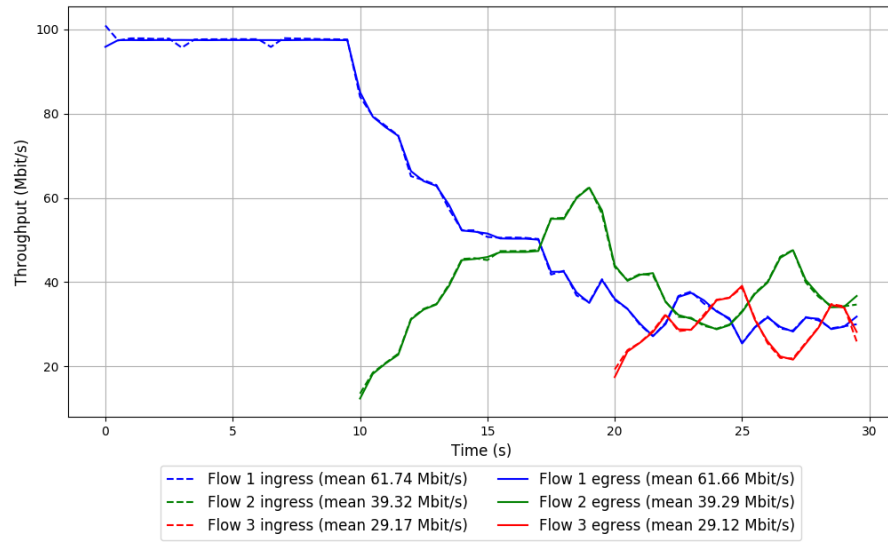


Run 3: Statistics of TCP Cubic

Start at: 2018-04-17 16:55:55
End at: 2018-04-17 16:56:25
Local clock offset: -5.329 ms
Remote clock offset: -6.773 ms

Below is generated by plot.py at 2018-04-17 19:55:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 97.47 Mbit/s
95th percentile per-packet one-way delay: 31.481 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 61.66 Mbit/s
95th percentile per-packet one-way delay: 31.606 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 39.29 Mbit/s
95th percentile per-packet one-way delay: 30.244 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 29.12 Mbit/s
95th percentile per-packet one-way delay: 31.924 ms
Loss rate: 0.15%

Run 3: Report of TCP Cubic — Data Link

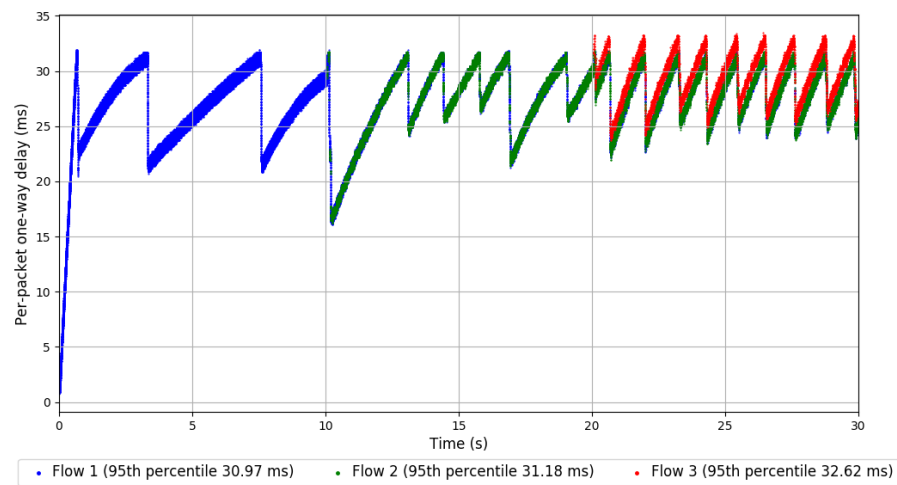
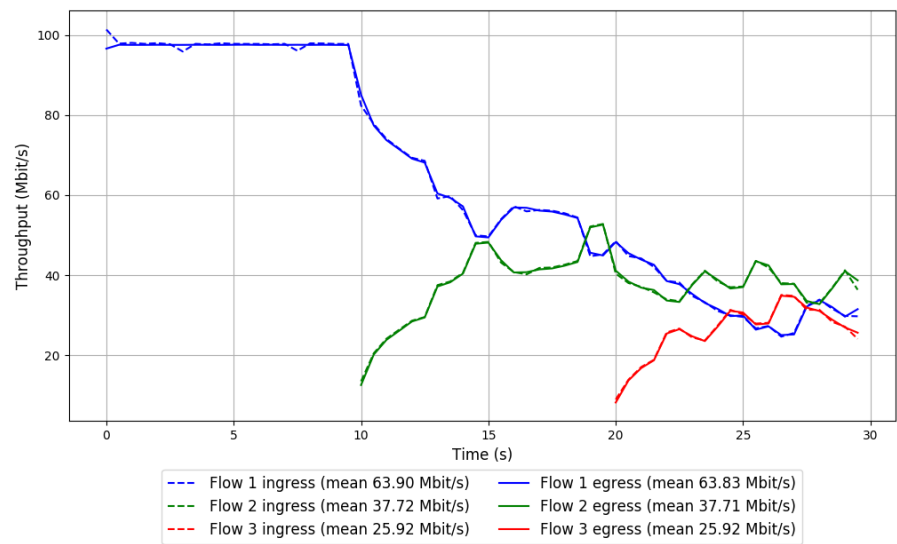


Run 4: Statistics of TCP Cubic

Start at: 2018-04-17 17:15:06
End at: 2018-04-17 17:15:36
Local clock offset: -6.075 ms
Remote clock offset: -6.898 ms

Below is generated by plot.py at 2018-04-17 19:55:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 97.52 Mbit/s
95th percentile per-packet one-way delay: 31.214 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 63.83 Mbit/s
95th percentile per-packet one-way delay: 30.970 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 37.71 Mbit/s
95th percentile per-packet one-way delay: 31.175 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 25.92 Mbit/s
95th percentile per-packet one-way delay: 32.616 ms
Loss rate: 0.07%

Run 4: Report of TCP Cubic — Data Link

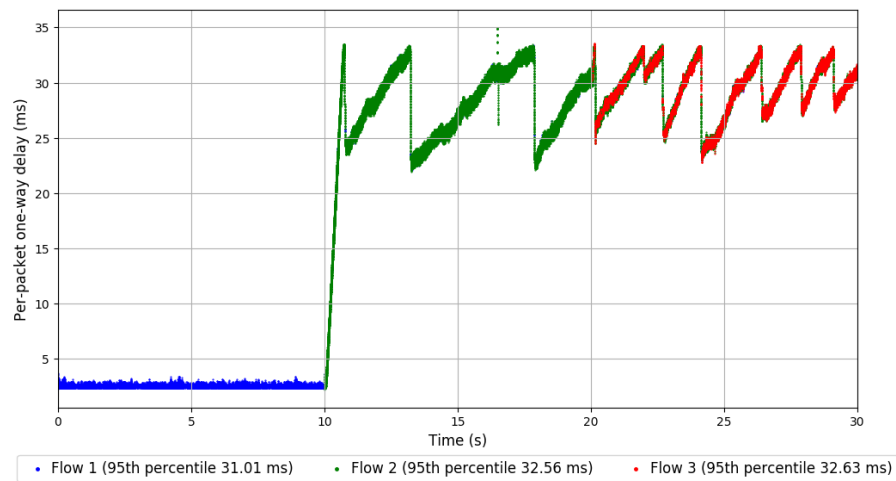
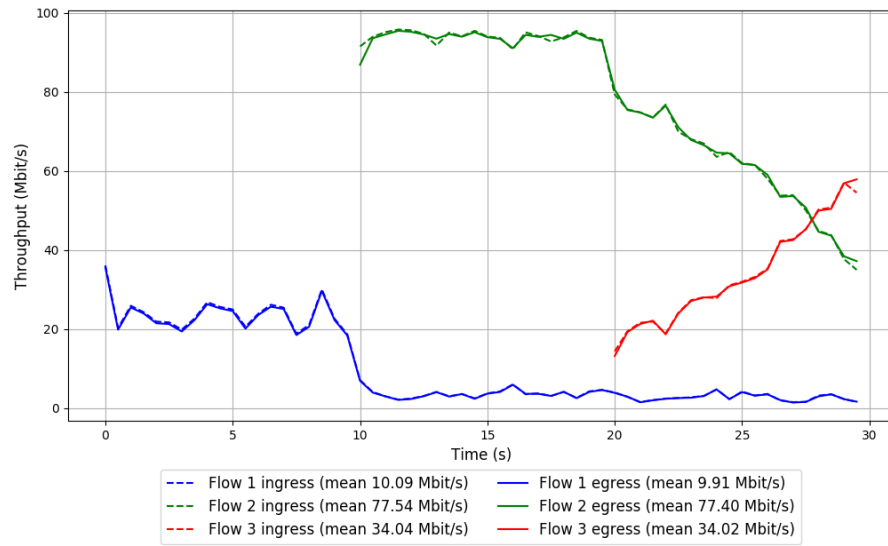


Run 5: Statistics of TCP Cubic

Start at: 2018-04-17 17:34:17
End at: 2018-04-17 17:34:47
Local clock offset: -6.073 ms
Remote clock offset: -7.017 ms

Below is generated by plot.py at 2018-04-17 19:55:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 72.77 Mbit/s
95th percentile per-packet one-way delay: 32.549 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 9.91 Mbit/s
95th percentile per-packet one-way delay: 31.011 ms
Loss rate: 1.69%
-- Flow 2:
Average throughput: 77.40 Mbit/s
95th percentile per-packet one-way delay: 32.564 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 34.02 Mbit/s
95th percentile per-packet one-way delay: 32.630 ms
Loss rate: 0.07%

Run 5: Report of TCP Cubic — Data Link

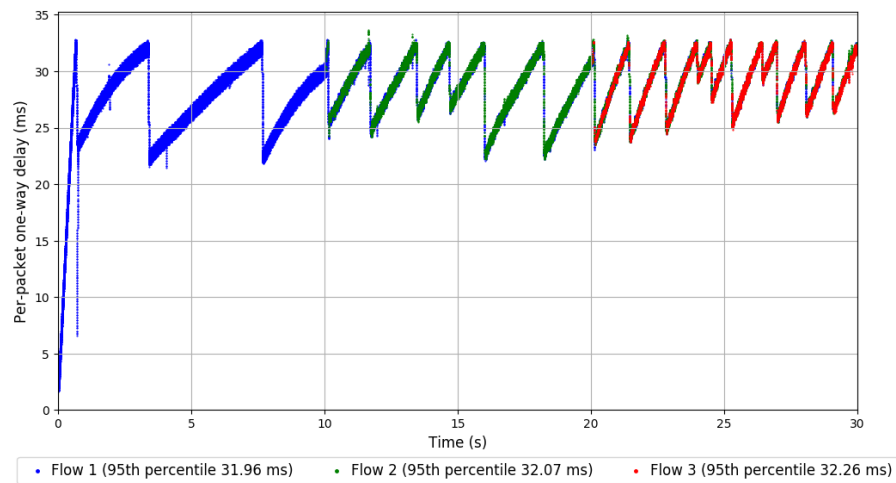
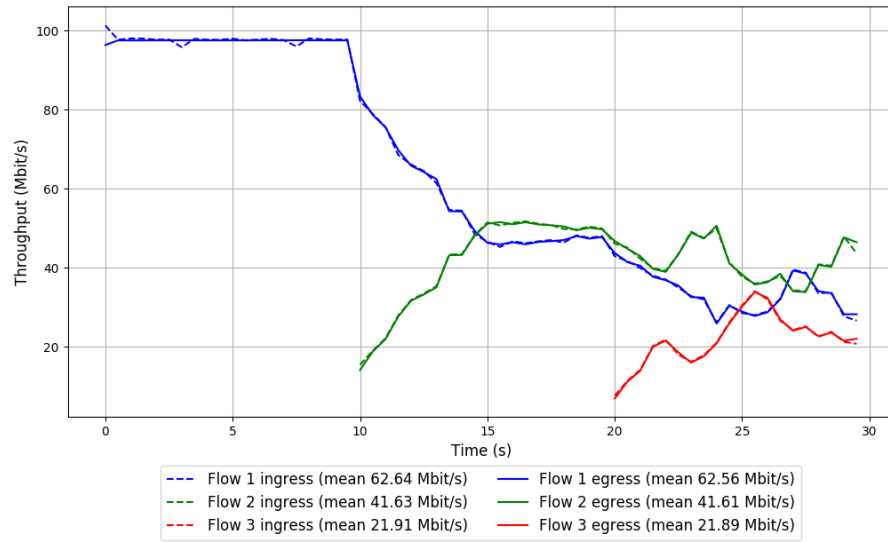


Run 6: Statistics of TCP Cubic

Start at: 2018-04-17 17:53:28
End at: 2018-04-17 17:53:58
Local clock offset: -6.763 ms
Remote clock offset: -6.856 ms

Below is generated by plot.py at 2018-04-17 19:55:37
Datalink statistics
-- Total of 3 flows:
Average throughput: 97.51 Mbit/s
95th percentile per-packet one-way delay: 32.033 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 62.56 Mbit/s
95th percentile per-packet one-way delay: 31.962 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 41.61 Mbit/s
95th percentile per-packet one-way delay: 32.073 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 21.89 Mbit/s
95th percentile per-packet one-way delay: 32.262 ms
Loss rate: 0.09%

Run 6: Report of TCP Cubic — Data Link

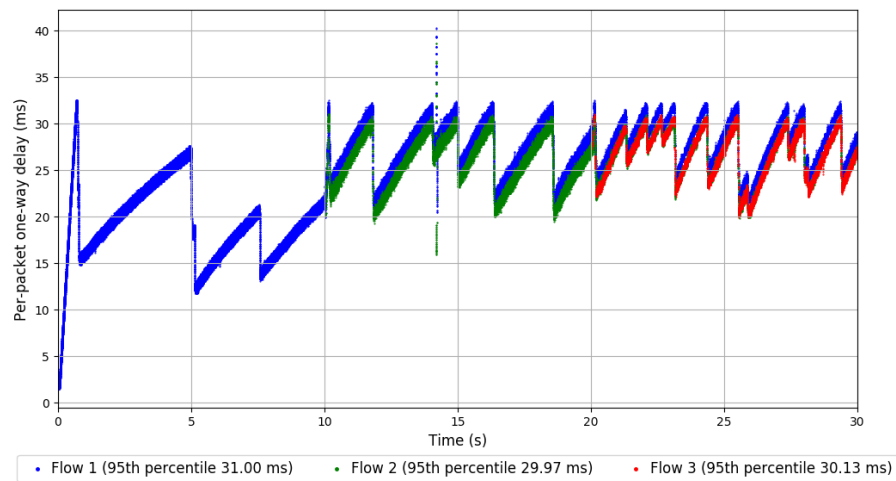
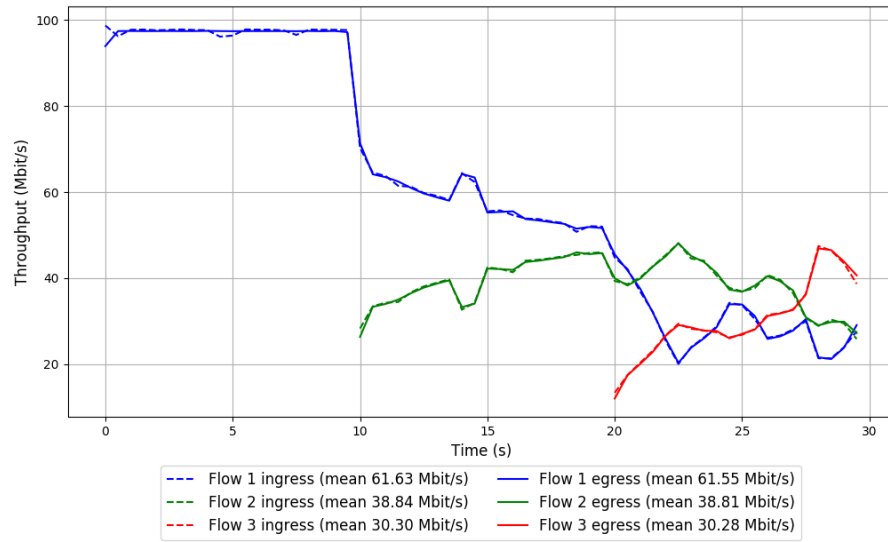


Run 7: Statistics of TCP Cubic

Start at: 2018-04-17 18:12:40
End at: 2018-04-17 18:13:10
Local clock offset: -5.039 ms
Remote clock offset: -5.352 ms

Below is generated by plot.py at 2018-04-17 19:56:46
Datalink statistics
-- Total of 3 flows:
Average throughput: 97.42 Mbit/s
95th percentile per-packet one-way delay: 30.650 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 61.55 Mbit/s
95th percentile per-packet one-way delay: 31.000 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 38.81 Mbit/s
95th percentile per-packet one-way delay: 29.967 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 30.28 Mbit/s
95th percentile per-packet one-way delay: 30.134 ms
Loss rate: 0.10%

Run 7: Report of TCP Cubic — Data Link

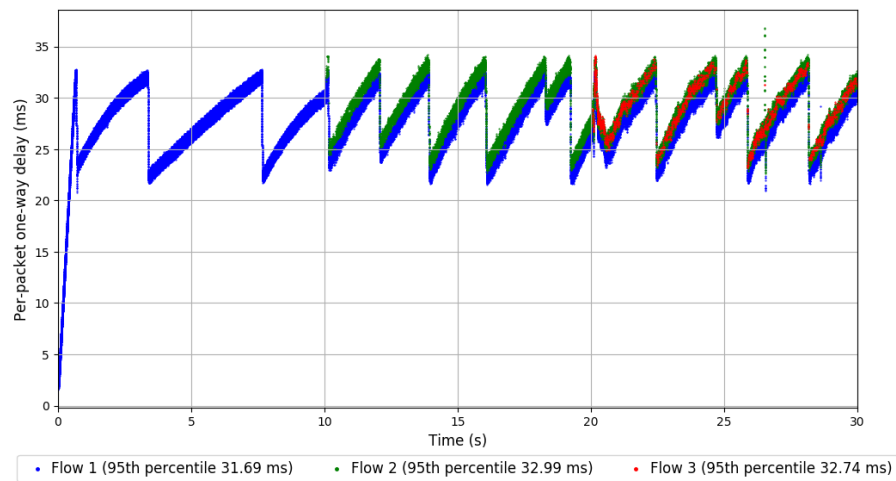
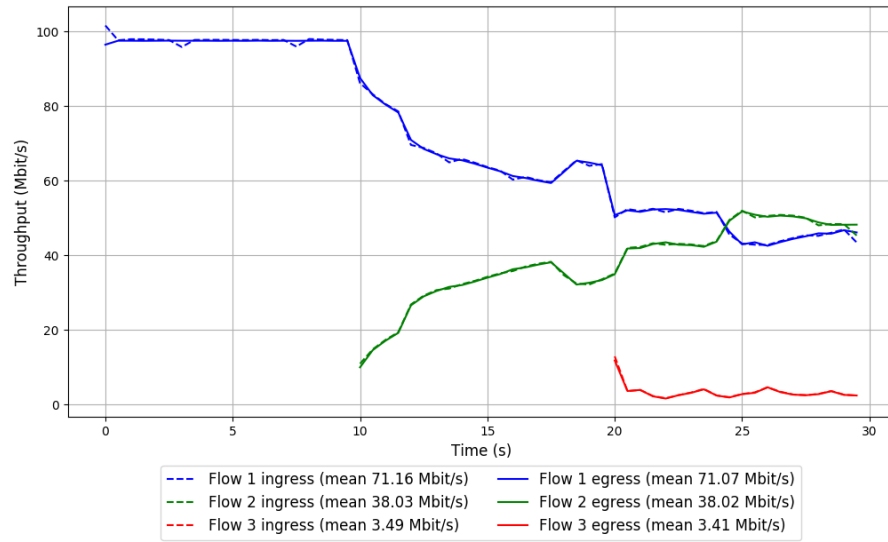


Run 8: Statistics of TCP Cubic

Start at: 2018-04-17 18:31:51
End at: 2018-04-17 18:32:21
Local clock offset: -6.623 ms
Remote clock offset: -0.903 ms

Below is generated by plot.py at 2018-04-17 19:56:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 97.49 Mbit/s
95th percentile per-packet one-way delay: 32.181 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 71.07 Mbit/s
95th percentile per-packet one-way delay: 31.686 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 38.02 Mbit/s
95th percentile per-packet one-way delay: 32.987 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 3.41 Mbit/s
95th percentile per-packet one-way delay: 32.742 ms
Loss rate: 2.69%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-04-17 18:51:02

End at: 2018-04-17 18:51:32

Local clock offset: -5.997 ms

Remote clock offset: 1.133 ms

Below is generated by plot.py at 2018-04-17 19:57:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.52 Mbit/s

95th percentile per-packet one-way delay: 31.144 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 67.67 Mbit/s

95th percentile per-packet one-way delay: 31.098 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 30.38 Mbit/s

95th percentile per-packet one-way delay: 31.325 ms

Loss rate: 0.07%

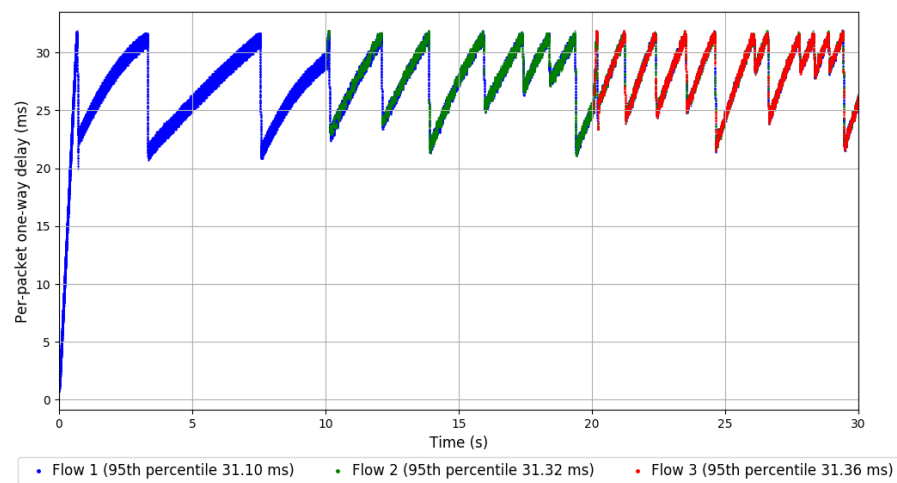
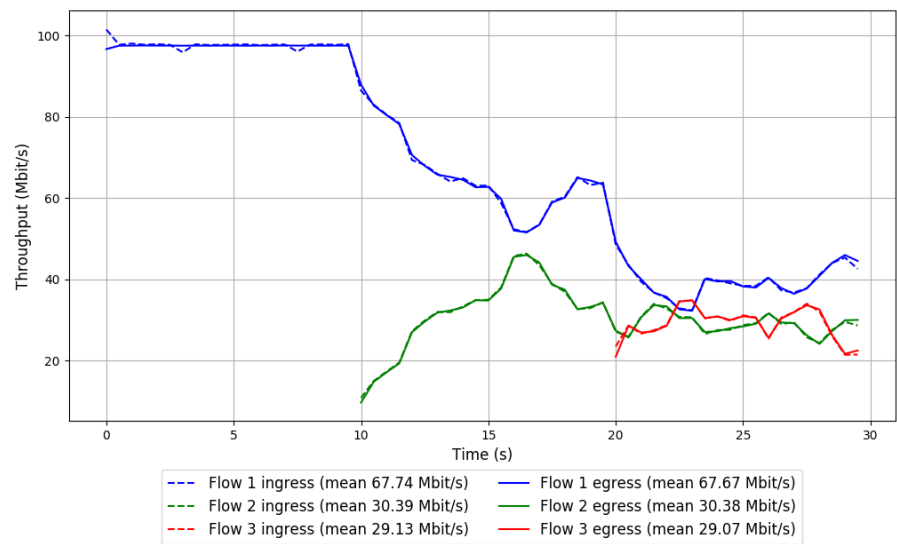
-- Flow 3:

Average throughput: 29.07 Mbit/s

95th percentile per-packet one-way delay: 31.358 ms

Loss rate: 0.19%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-04-17 19:10:51

End at: 2018-04-17 19:11:21

Local clock offset: -6.038 ms

Remote clock offset: 2.921 ms

Below is generated by plot.py at 2018-04-17 19:57:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.52 Mbit/s

95th percentile per-packet one-way delay: 31.233 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 62.72 Mbit/s

95th percentile per-packet one-way delay: 31.183 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 38.78 Mbit/s

95th percentile per-packet one-way delay: 31.260 ms

Loss rate: 0.06%

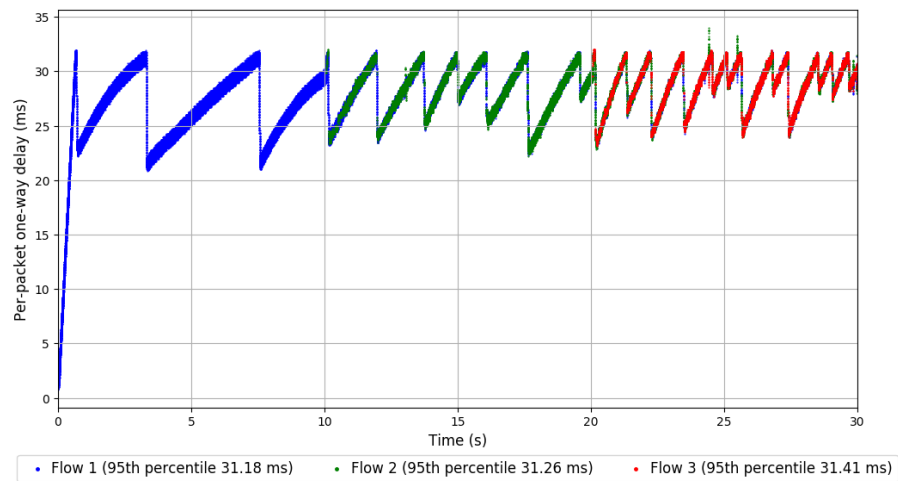
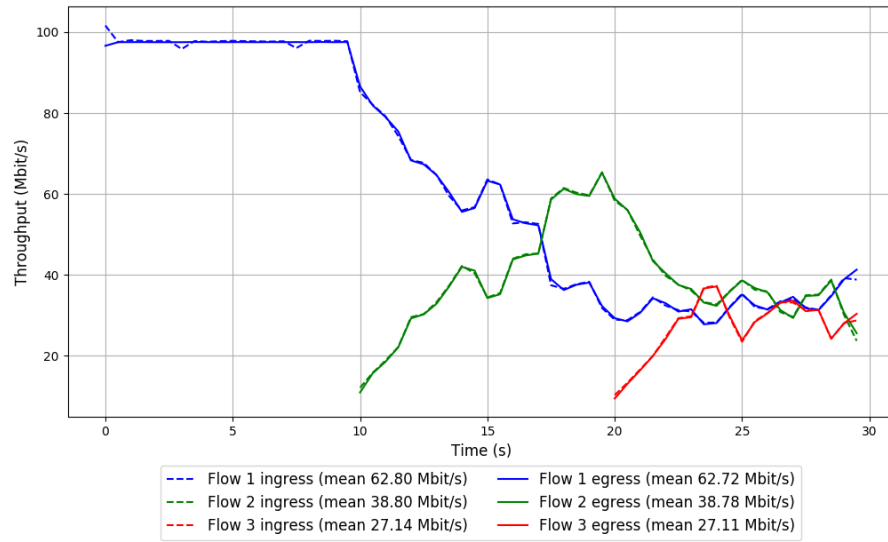
-- Flow 3:

Average throughput: 27.11 Mbit/s

95th percentile per-packet one-way delay: 31.413 ms

Loss rate: 0.08%

Run 10: Report of TCP Cubic — Data Link

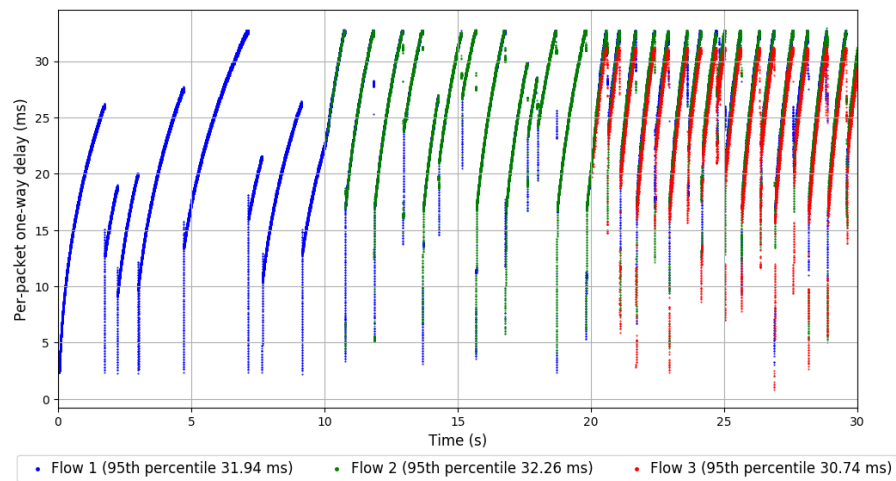
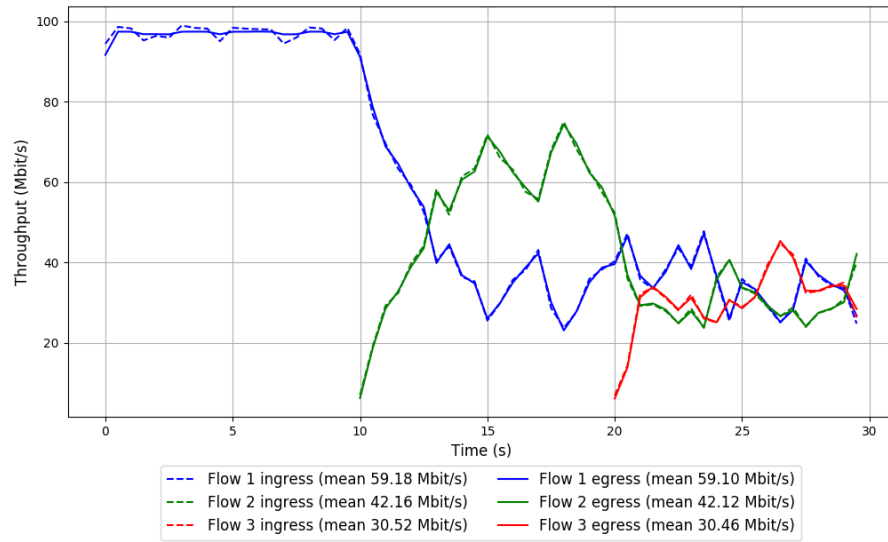



```
Run 1: Statistics of LEDBAT

Start at: 2018-04-17 16:29:47
End at: 2018-04-17 16:30:17
Local clock offset: -6.199 ms
Remote clock offset: -7.173 ms

# Below is generated by plot.py at 2018-04-17 19:57:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.23 Mbit/s
95th percentile per-packet one-way delay: 31.986 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 59.10 Mbit/s
95th percentile per-packet one-way delay: 31.939 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 42.12 Mbit/s
95th percentile per-packet one-way delay: 32.258 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 30.46 Mbit/s
95th percentile per-packet one-way delay: 30.744 ms
Loss rate: 0.12%
```

Run 1: Report of LEDBAT — Data Link

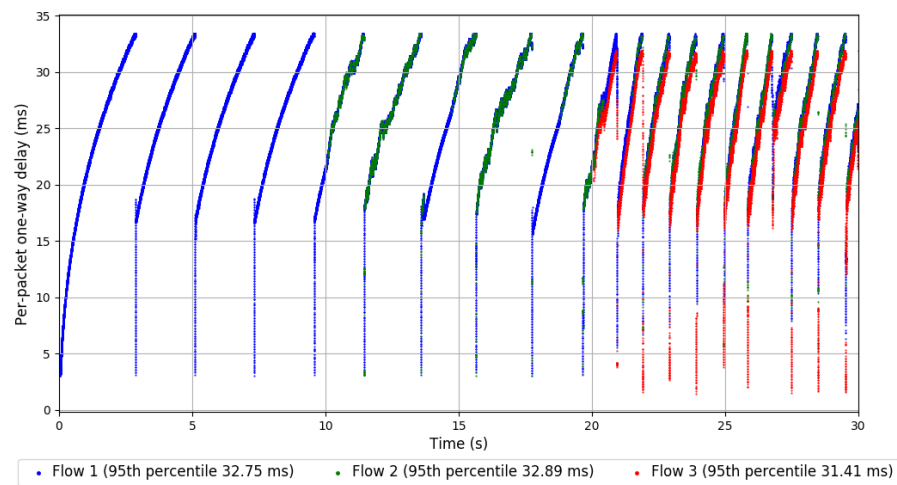
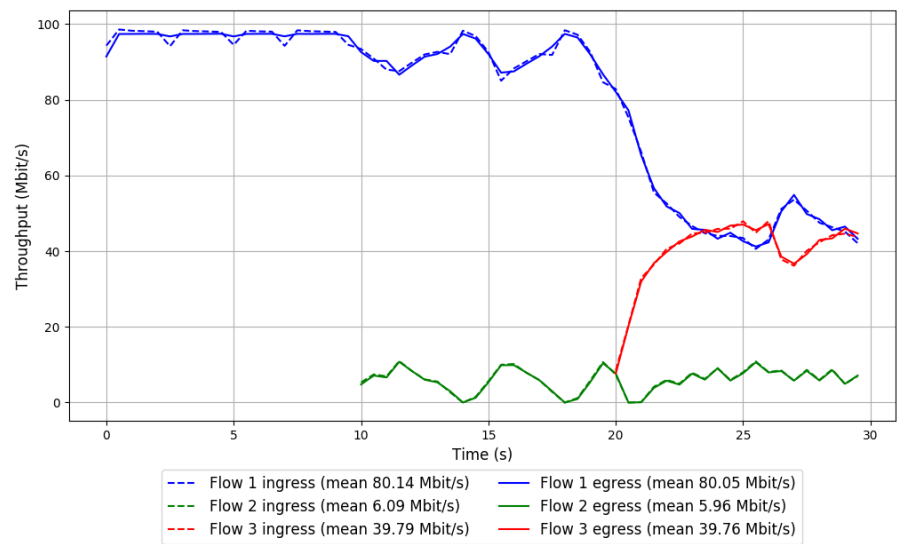


Run 2: Statistics of LEDBAT

Start at: 2018-04-17 16:48:58
End at: 2018-04-17 16:49:28
Local clock offset: -6.859 ms
Remote clock offset: -6.785 ms

Below is generated by plot.py at 2018-04-17 19:57:10
Datalink statistics
-- Total of 3 flows:
Average throughput: 97.21 Mbit/s
95th percentile per-packet one-way delay: 32.695 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 80.05 Mbit/s
95th percentile per-packet one-way delay: 32.750 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 5.96 Mbit/s
95th percentile per-packet one-way delay: 32.893 ms
Loss rate: 2.15%
-- Flow 3:
Average throughput: 39.76 Mbit/s
95th percentile per-packet one-way delay: 31.412 ms
Loss rate: 0.06%

Run 2: Report of LEDBAT — Data Link

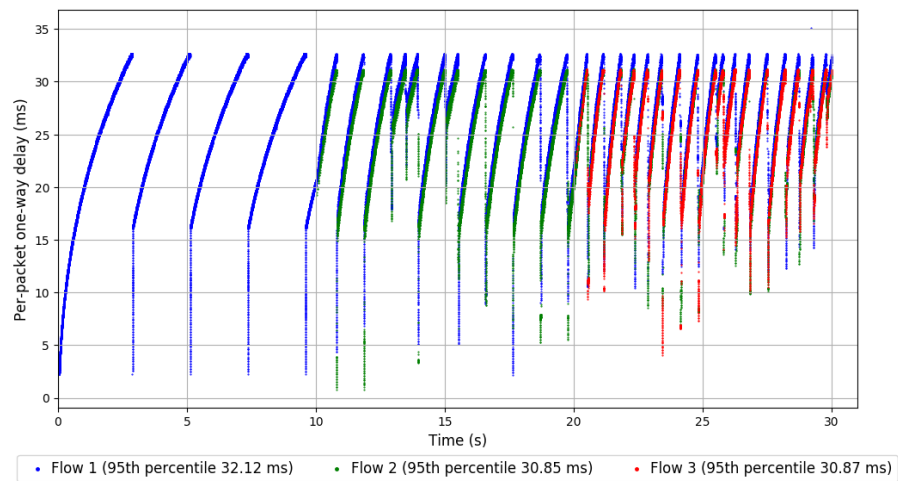
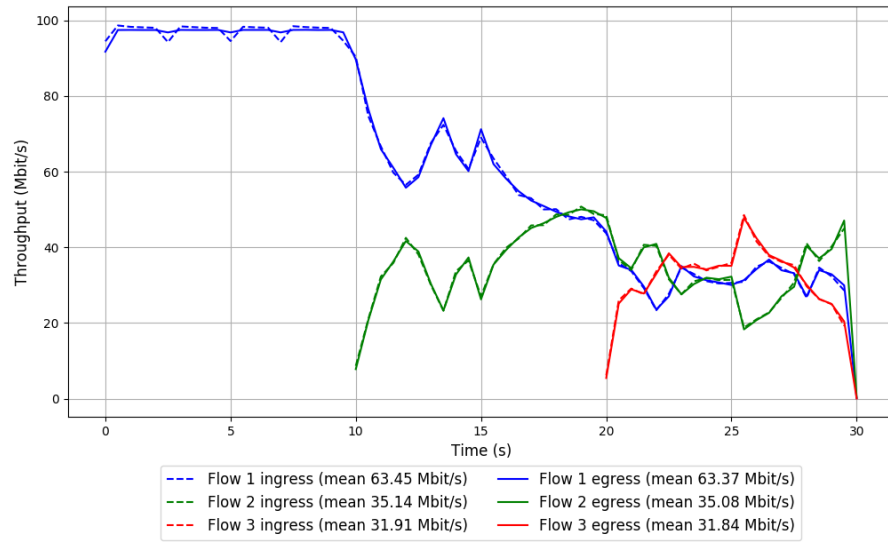


Run 3: Statistics of LEDBAT

Start at: 2018-04-17 17:08:11
End at: 2018-04-17 17:08:41
Local clock offset: -6.03 ms
Remote clock offset: -6.862 ms

Below is generated by plot.py at 2018-04-17 19:57:10
Datalink statistics
-- Total of 3 flows:
Average throughput: 97.29 Mbit/s
95th percentile per-packet one-way delay: 31.861 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 63.37 Mbit/s
95th percentile per-packet one-way delay: 32.121 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 35.08 Mbit/s
95th percentile per-packet one-way delay: 30.851 ms
Loss rate: 0.11%
-- Flow 3:
Average throughput: 31.84 Mbit/s
95th percentile per-packet one-way delay: 30.867 ms
Loss rate: 0.13%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-04-17 17:27:21

End at: 2018-04-17 17:27:51

Local clock offset: -6.089 ms

Remote clock offset: -7.04 ms

Below is generated by plot.py at 2018-04-17 19:57:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.26 Mbit/s

95th percentile per-packet one-way delay: 32.166 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 60.44 Mbit/s

95th percentile per-packet one-way delay: 31.682 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 40.19 Mbit/s

95th percentile per-packet one-way delay: 32.429 ms

Loss rate: 0.06%

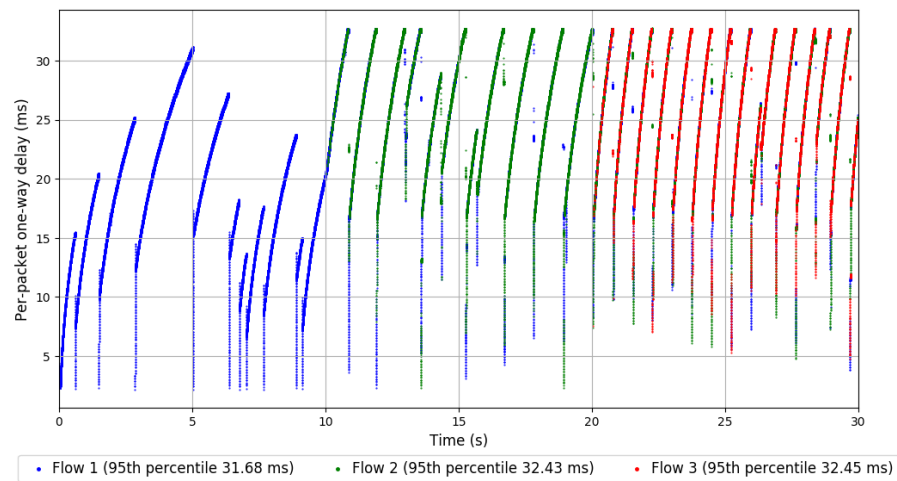
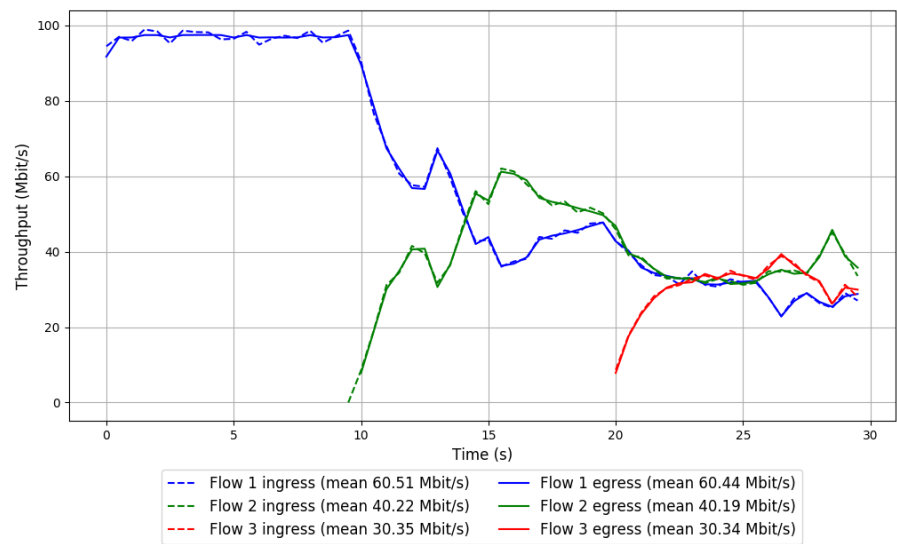
-- Flow 3:

Average throughput: 30.34 Mbit/s

95th percentile per-packet one-way delay: 32.449 ms

Loss rate: 0.08%

Run 4: Report of LEDBAT — Data Link

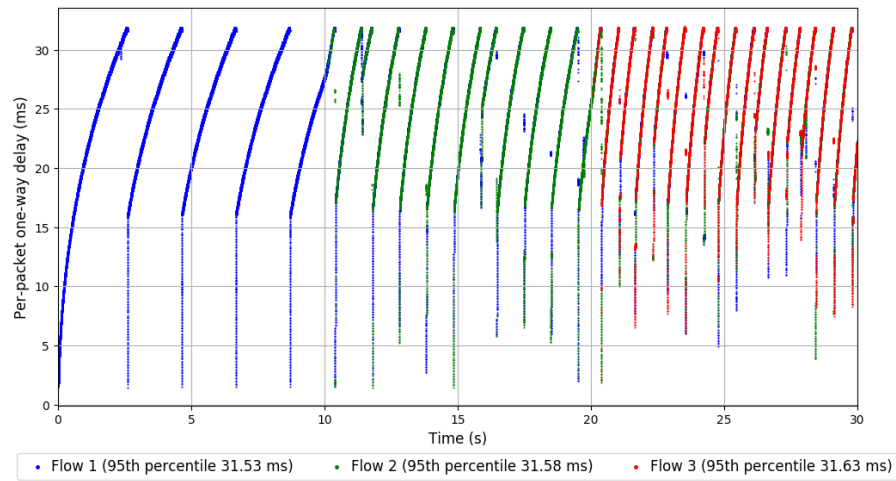
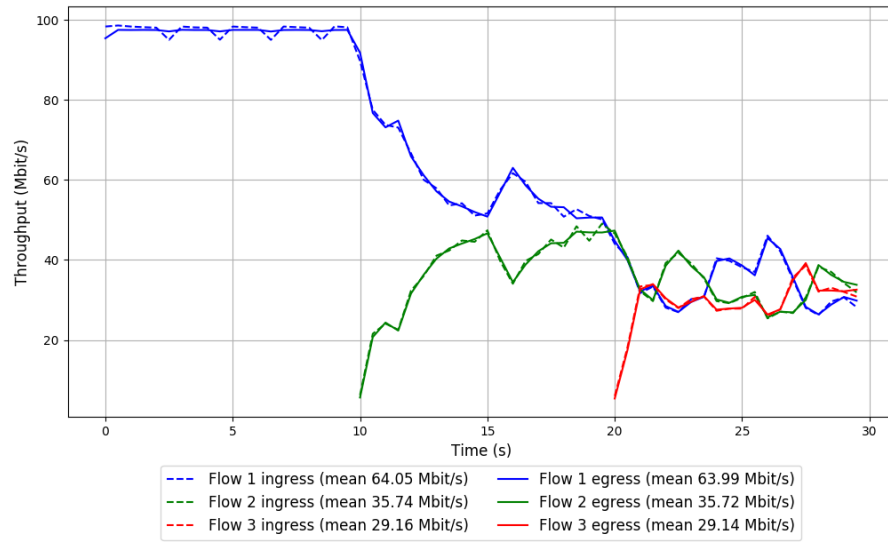


Run 5: Statistics of LEDBAT

Start at: 2018-04-17 17:46:32
End at: 2018-04-17 17:47:02
Local clock offset: -6.693 ms
Remote clock offset: -6.937 ms

Below is generated by plot.py at 2018-04-17 19:58:19
Datalink statistics
-- Total of 3 flows:
Average throughput: 97.41 Mbit/s
95th percentile per-packet one-way delay: 31.576 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 63.99 Mbit/s
95th percentile per-packet one-way delay: 31.526 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 35.72 Mbit/s
95th percentile per-packet one-way delay: 31.578 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 29.14 Mbit/s
95th percentile per-packet one-way delay: 31.628 ms
Loss rate: 0.10%

Run 5: Report of LEDBAT — Data Link

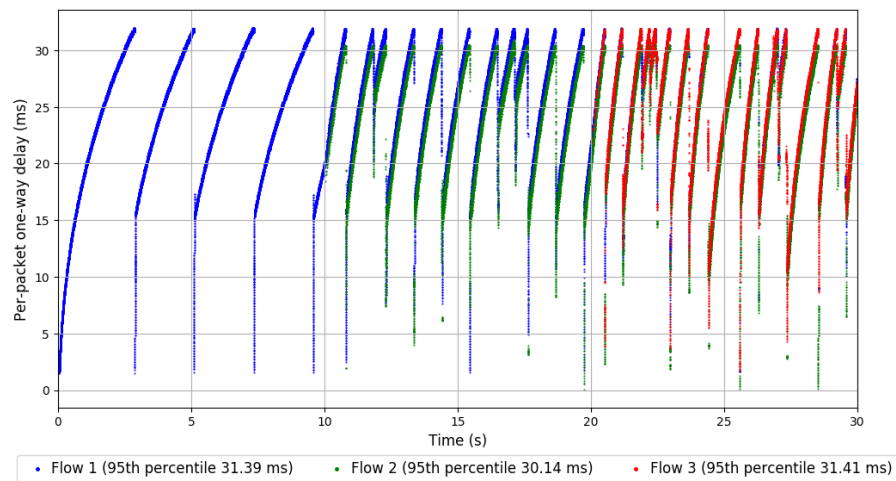
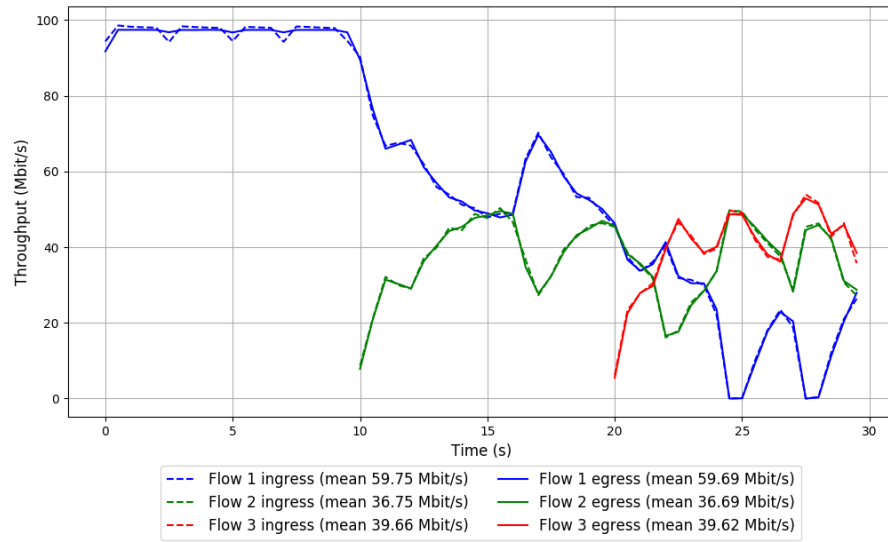


Run 6: Statistics of LEDBAT

Start at: 2018-04-17 18:05:43
End at: 2018-04-17 18:06:13
Local clock offset: -5.079 ms
Remote clock offset: -6.846 ms

Below is generated by plot.py at 2018-04-17 19:58:33
Datalink statistics
-- Total of 3 flows:
Average throughput: 97.27 Mbit/s
95th percentile per-packet one-way delay: 31.171 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 59.69 Mbit/s
95th percentile per-packet one-way delay: 31.391 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 36.69 Mbit/s
95th percentile per-packet one-way delay: 30.135 ms
Loss rate: 0.12%
-- Flow 3:
Average throughput: 39.62 Mbit/s
95th percentile per-packet one-way delay: 31.409 ms
Loss rate: 0.05%

Run 6: Report of LEDBAT — Data Link

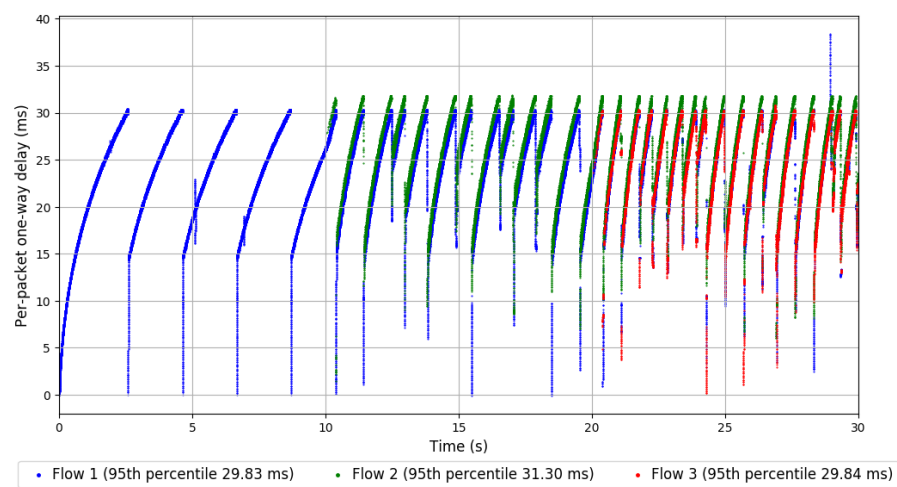
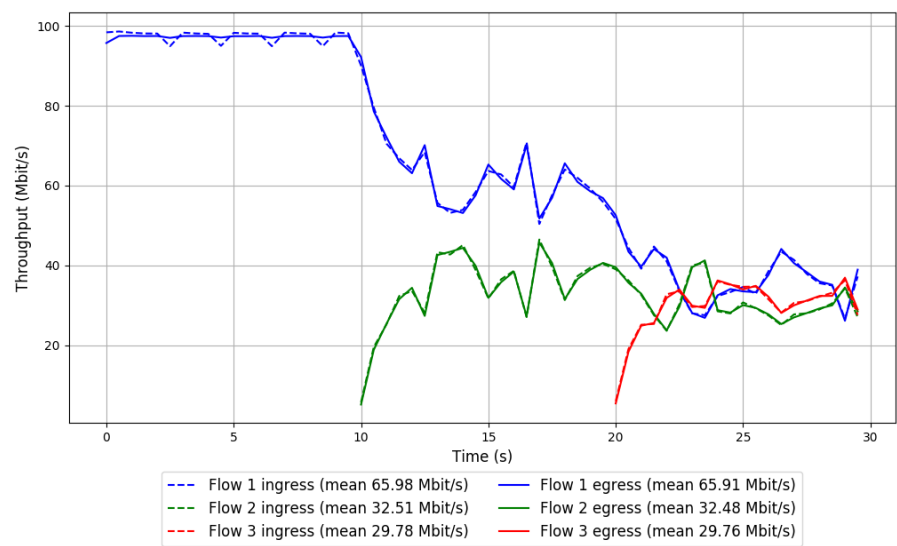


Run 7: Statistics of LEDBAT

Start at: 2018-04-17 18:24:55
End at: 2018-04-17 18:25:25
Local clock offset: -5.0 ms
Remote clock offset: -1.993 ms

Below is generated by plot.py at 2018-04-17 19:58:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 97.37 Mbit/s
95th percentile per-packet one-way delay: 30.112 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 65.91 Mbit/s
95th percentile per-packet one-way delay: 29.829 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 32.48 Mbit/s
95th percentile per-packet one-way delay: 31.302 ms
Loss rate: 0.11%
-- Flow 3:
Average throughput: 29.76 Mbit/s
95th percentile per-packet one-way delay: 29.838 ms
Loss rate: 0.09%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-04-17 18:44:06

End at: 2018-04-17 18:44:36

Local clock offset: -6.049 ms

Remote clock offset: 0.42 ms

Below is generated by plot.py at 2018-04-17 19:58:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.41 Mbit/s

95th percentile per-packet one-way delay: 30.955 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 64.16 Mbit/s

95th percentile per-packet one-way delay: 30.674 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 34.38 Mbit/s

95th percentile per-packet one-way delay: 32.168 ms

Loss rate: 0.08%

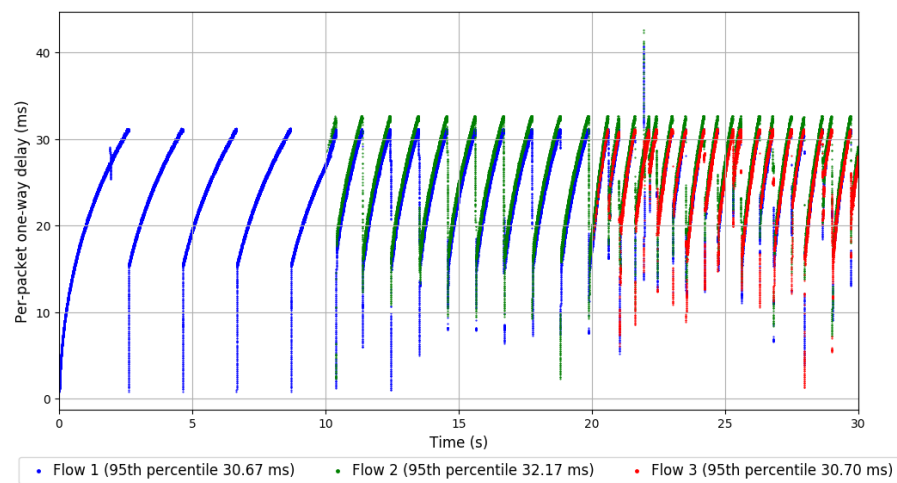
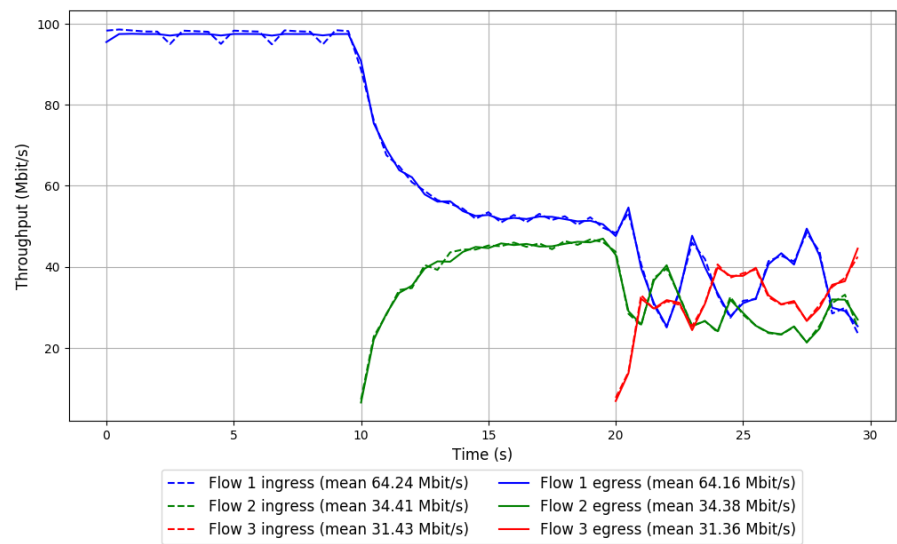
-- Flow 3:

Average throughput: 31.36 Mbit/s

95th percentile per-packet one-way delay: 30.697 ms

Loss rate: 0.11%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-04-17 19:03:55

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

Local clock offset: -6.115 ms

Remote clock offset: 2.283 ms

Below is generated by plot.py at 2018-04-17 19:58:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.30 Mbit/s

95th percentile per-packet one-way delay: 31.502 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 57.77 Mbit/s

95th percentile per-packet one-way delay: 31.747 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 44.10 Mbit/s

95th percentile per-packet one-way delay: 30.707 ms

Loss rate: 0.05%

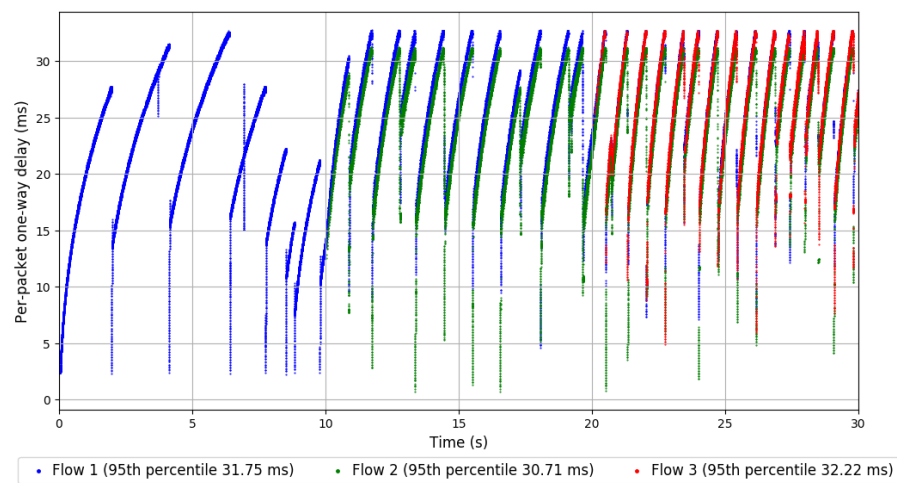
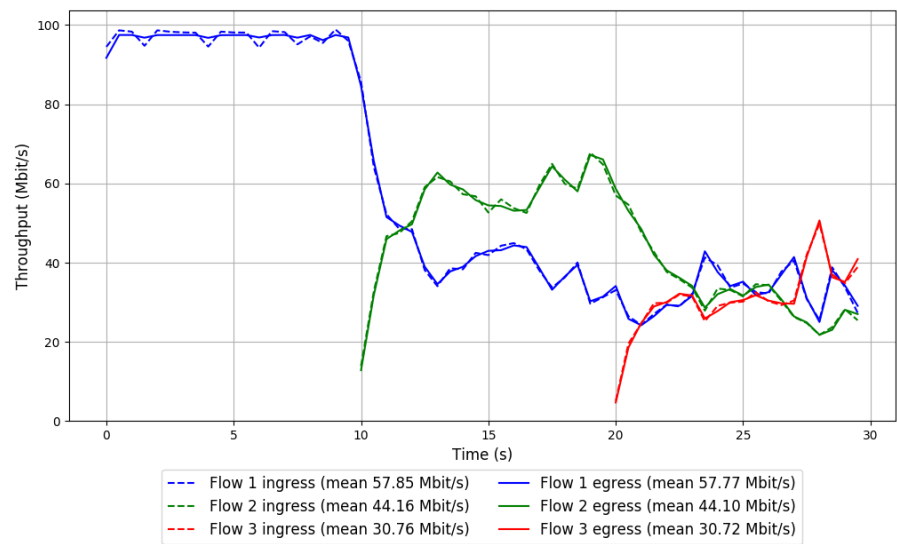
-- Flow 3:

Average throughput: 30.72 Mbit/s

95th percentile per-packet one-way delay: 32.219 ms

Loss rate: 0.09%

Run 9: Report of LEDBAT — Data Link

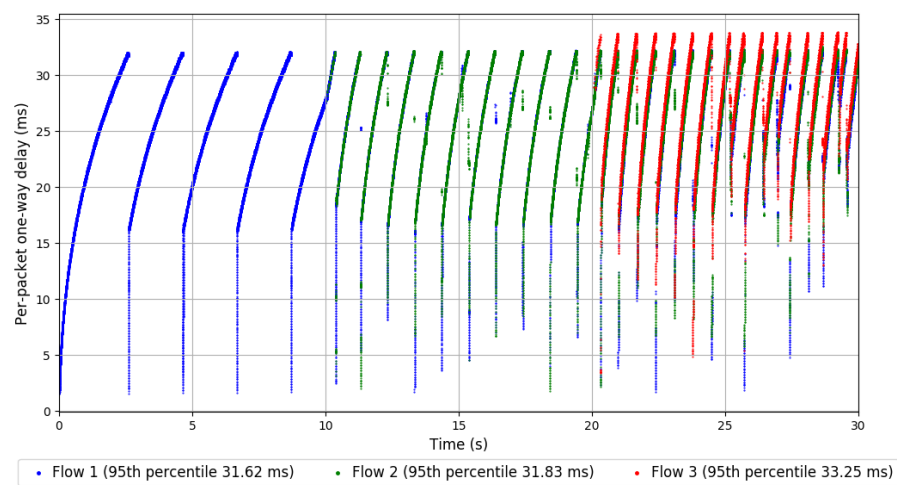
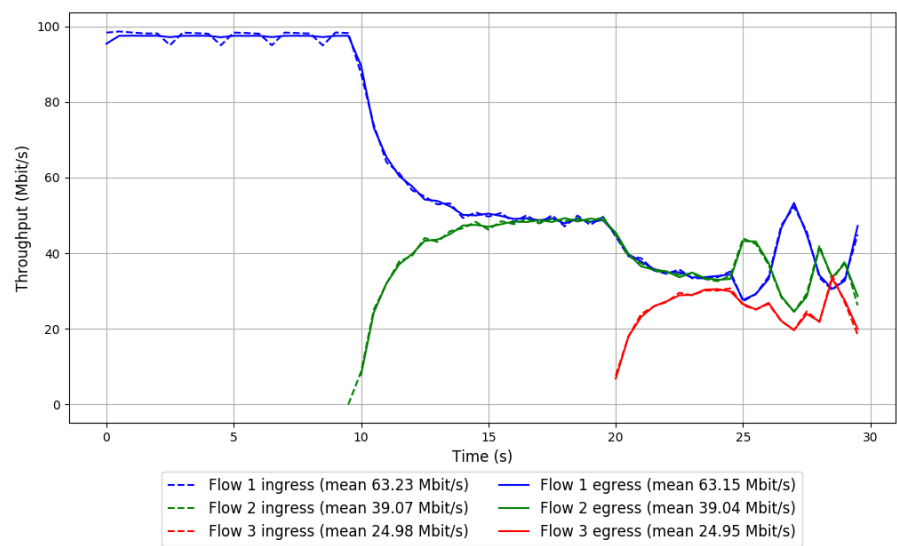


Run 10: Statistics of LEDBAT

Start at: 2018-04-17 19:23:07
End at: 2018-04-17 19:23:37
Local clock offset: -6.634 ms
Remote clock offset: -1.679 ms

Below is generated by plot.py at 2018-04-17 19:58:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 97.41 Mbit/s
95th percentile per-packet one-way delay: 31.803 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 63.15 Mbit/s
95th percentile per-packet one-way delay: 31.617 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 39.04 Mbit/s
95th percentile per-packet one-way delay: 31.827 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 24.95 Mbit/s
95th percentile per-packet one-way delay: 33.247 ms
Loss rate: 0.13%

Run 10: Report of LEDBAT — Data Link

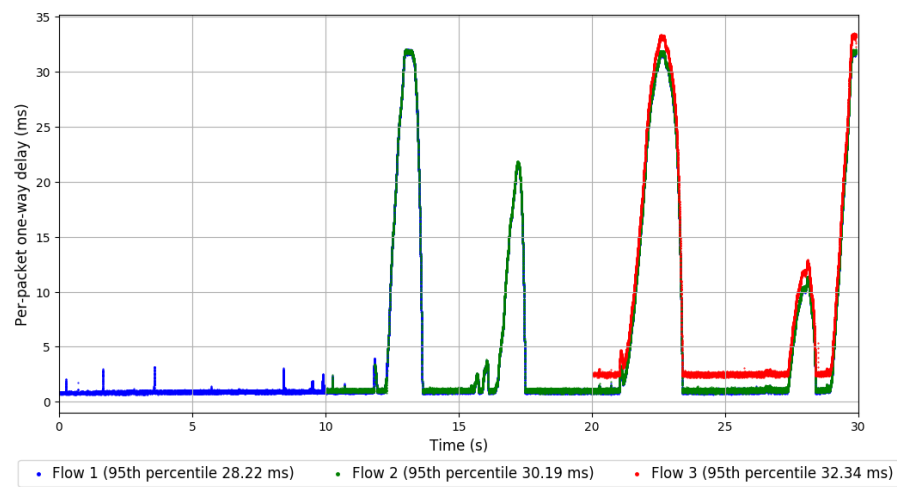
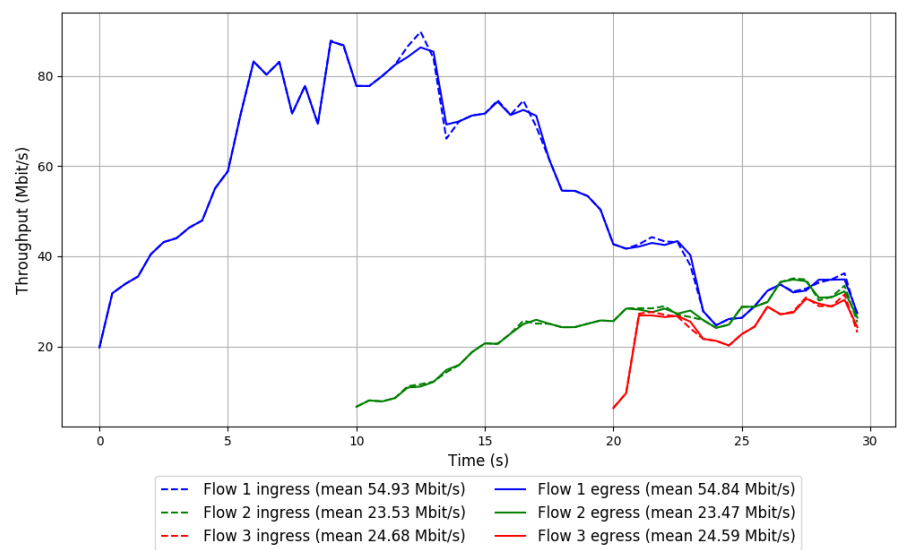


Run 1: Statistics of PCC-Allegro

Start at: 2018-04-17 16:16:25
End at: 2018-04-17 16:16:55
Local clock offset: -6.275 ms
Remote clock offset: -7.198 ms

Below is generated by plot.py at 2018-04-17 19:58:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 78.57 Mbit/s
95th percentile per-packet one-way delay: 29.782 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 54.84 Mbit/s
95th percentile per-packet one-way delay: 28.220 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 23.47 Mbit/s
95th percentile per-packet one-way delay: 30.193 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 24.59 Mbit/s
95th percentile per-packet one-way delay: 32.337 ms
Loss rate: 0.05%

Run 1: Report of PCC-Allegro — Data Link

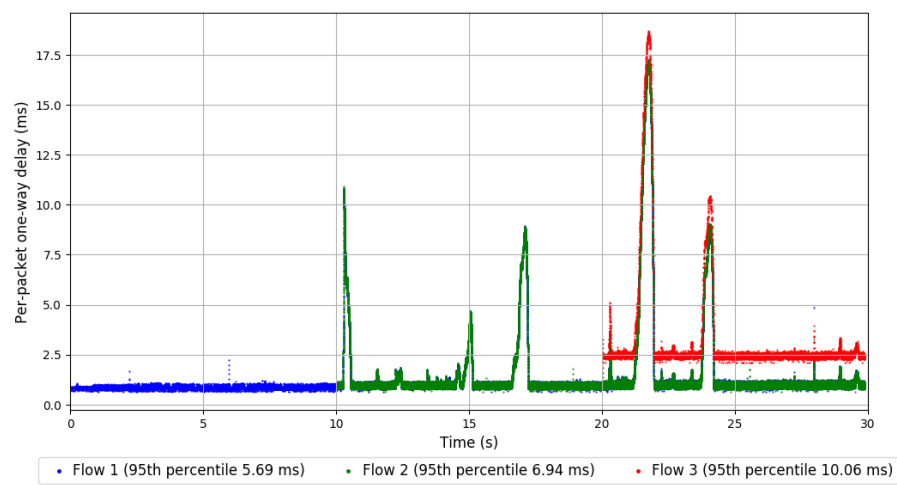
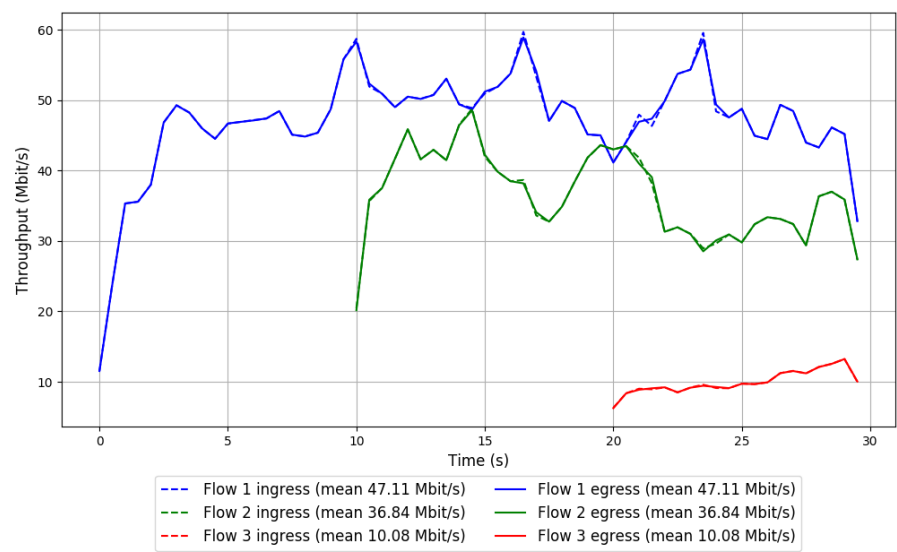


Run 2: Statistics of PCC-Allegro

Start at: 2018-04-17 16:35:36
End at: 2018-04-17 16:36:06
Local clock offset: -6.081 ms
Remote clock offset: -6.927 ms

Below is generated by plot.py at 2018-04-17 19:58:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 74.93 Mbit/s
95th percentile per-packet one-way delay: 6.434 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 47.11 Mbit/s
95th percentile per-packet one-way delay: 5.690 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 36.84 Mbit/s
95th percentile per-packet one-way delay: 6.936 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 10.08 Mbit/s
95th percentile per-packet one-way delay: 10.058 ms
Loss rate: 0.00%

Run 2: Report of PCC-Allegro — Data Link

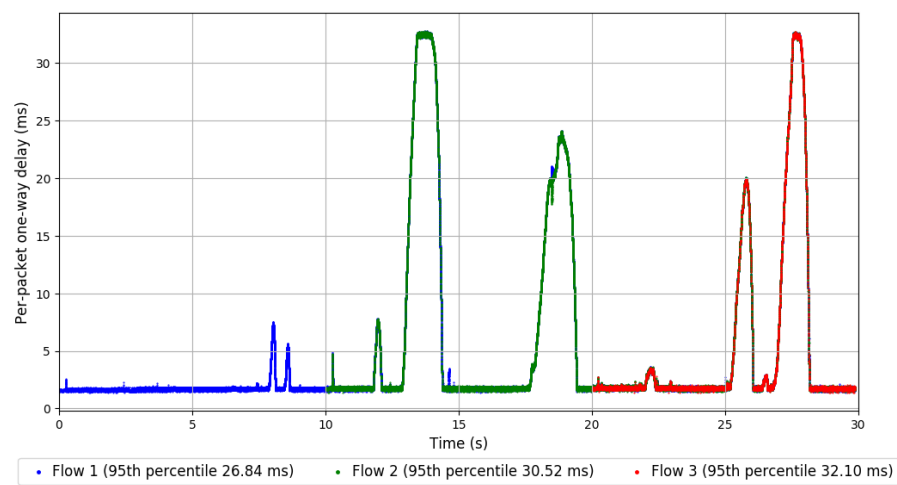
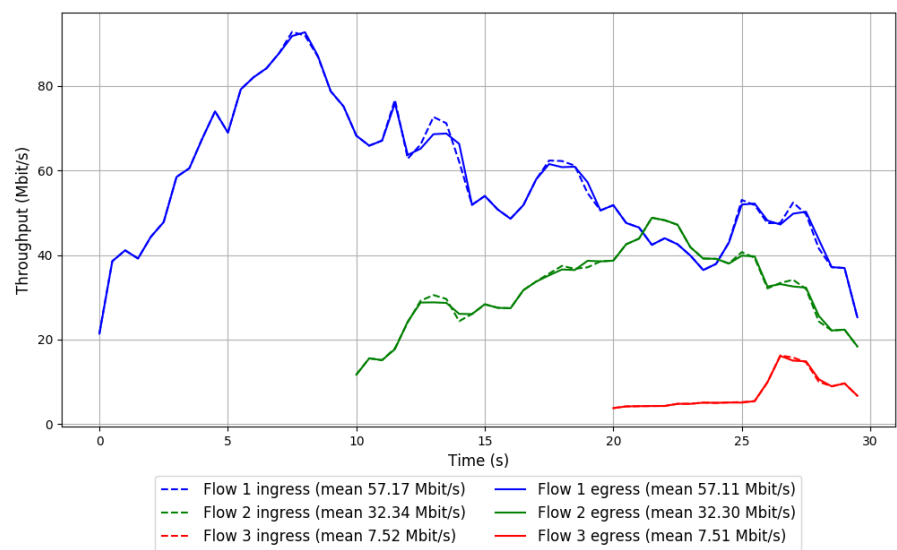


Run 3: Statistics of PCC-Allegro

Start at: 2018-04-17 16:54:48
End at: 2018-04-17 16:55:18
Local clock offset: -6.87 ms
Remote clock offset: -6.835 ms

Below is generated by plot.py at 2018-04-17 19:59:37
Datalink statistics
-- Total of 3 flows:
Average throughput: 81.07 Mbit/s
95th percentile per-packet one-way delay: 28.542 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 57.11 Mbit/s
95th percentile per-packet one-way delay: 26.835 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 32.30 Mbit/s
95th percentile per-packet one-way delay: 30.520 ms
Loss rate: 0.13%
-- Flow 3:
Average throughput: 7.51 Mbit/s
95th percentile per-packet one-way delay: 32.097 ms
Loss rate: 0.07%

Run 3: Report of PCC-Allegro — Data Link

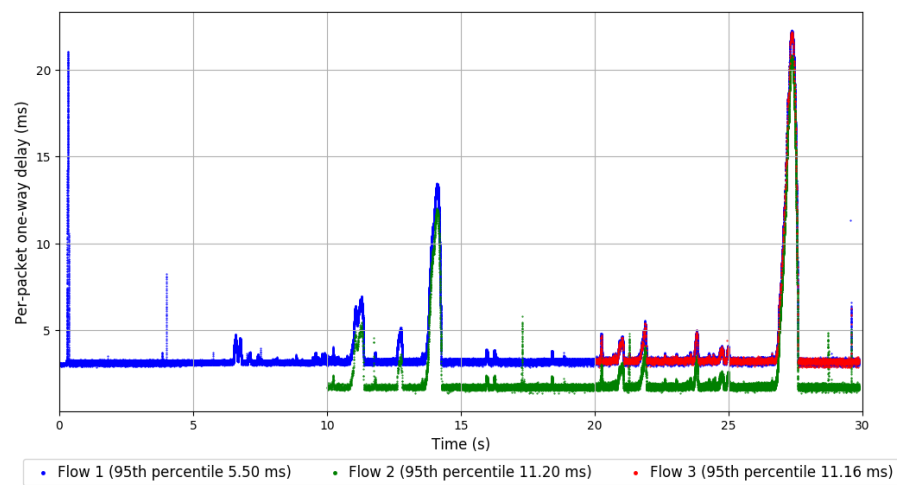
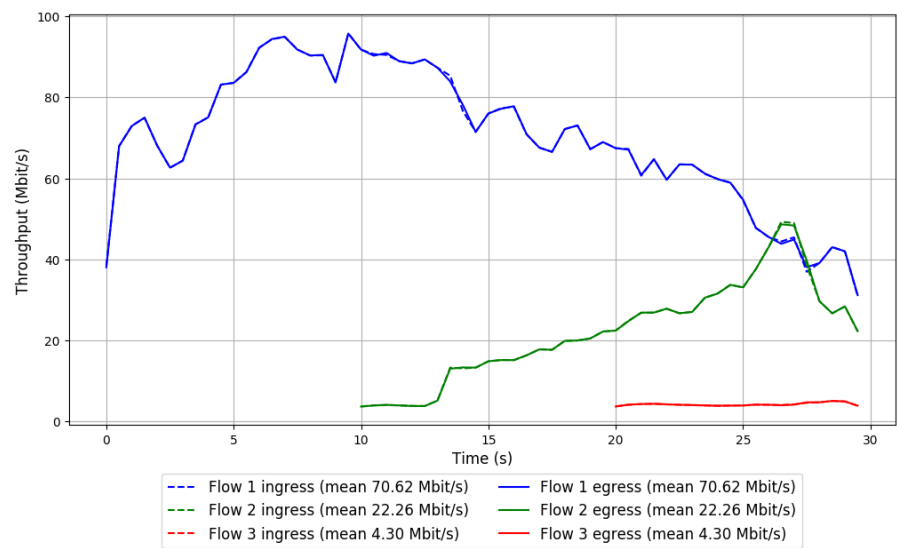


Run 4: Statistics of PCC-Allegro

Start at: 2018-04-17 17:13:59
End at: 2018-04-17 17:14:29
Local clock offset: -6.787 ms
Remote clock offset: -6.884 ms

```
# Below is generated by plot.py at 2018-04-17 19:59:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 86.84 Mbit/s
95th percentile per-packet one-way delay: 6.100 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 70.62 Mbit/s
95th percentile per-packet one-way delay: 5.496 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 22.26 Mbit/s
95th percentile per-packet one-way delay: 11.203 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 4.30 Mbit/s
95th percentile per-packet one-way delay: 11.161 ms
Loss rate: 0.00%
```

Run 4: Report of PCC-Allegro — Data Link

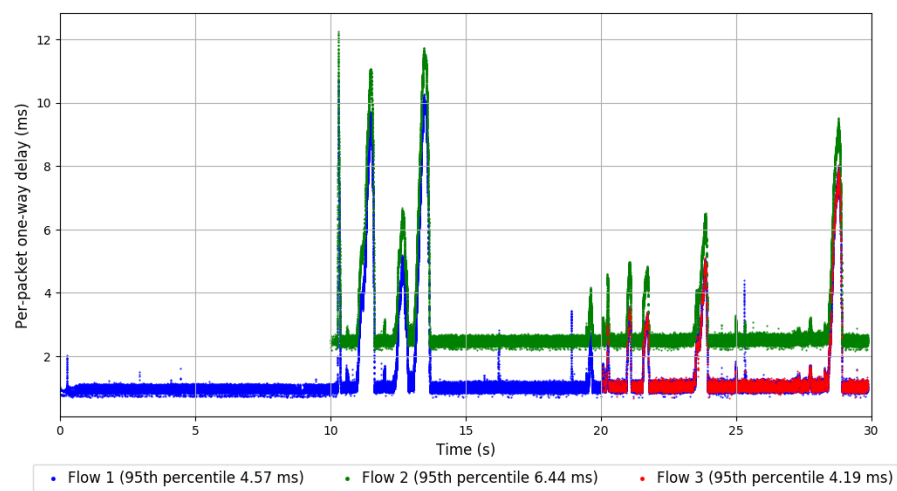
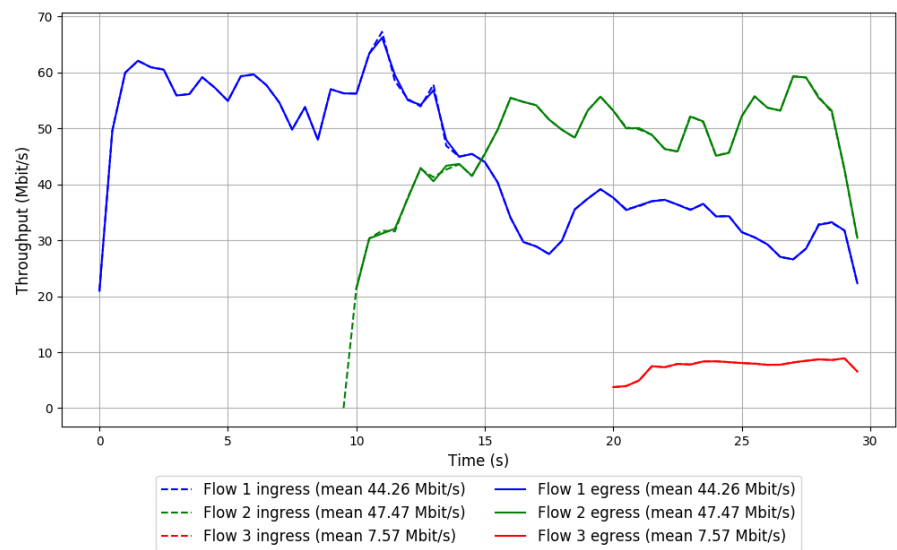


Run 5: Statistics of PCC-Allegro

Start at: 2018-04-17 17:33:11
End at: 2018-04-17 17:33:41
Local clock offset: -6.005 ms
Remote clock offset: -7.018 ms

Below is generated by plot.py at 2018-04-17 19:59:52
Datalink statistics
-- Total of 3 flows:
Average throughput: 78.33 Mbit/s
95th percentile per-packet one-way delay: 5.622 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 44.26 Mbit/s
95th percentile per-packet one-way delay: 4.570 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 47.47 Mbit/s
95th percentile per-packet one-way delay: 6.439 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 7.57 Mbit/s
95th percentile per-packet one-way delay: 4.193 ms
Loss rate: 0.00%

Run 5: Report of PCC-Allegro — Data Link

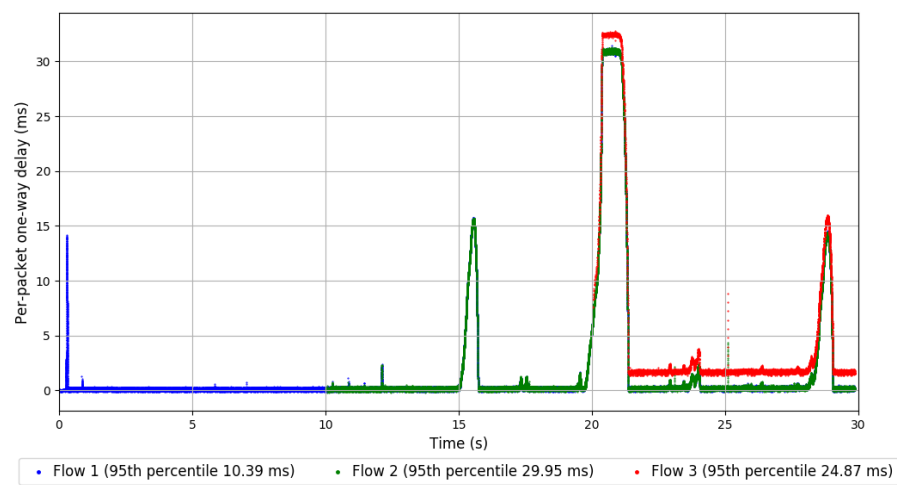
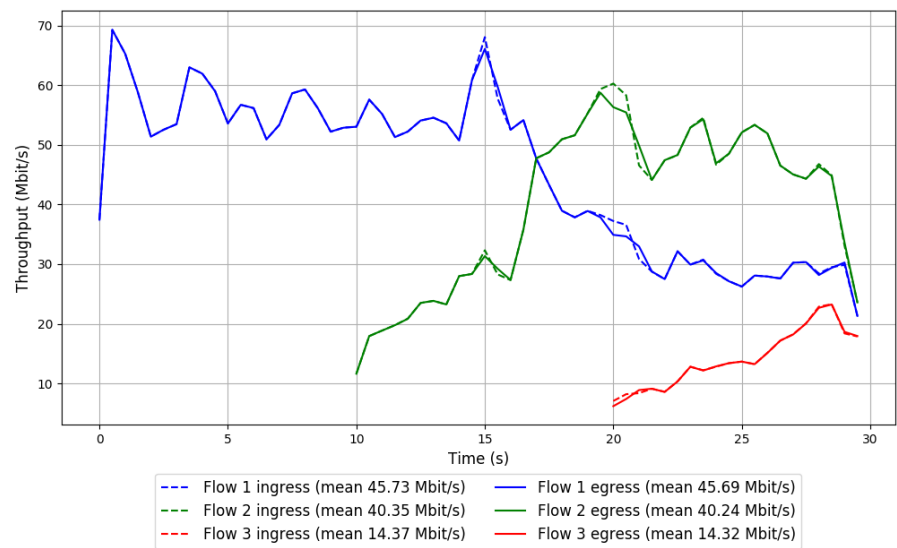


Run 6: Statistics of PCC-Allegro

Start at: 2018-04-17 17:52:21
End at: 2018-04-17 17:52:51
Local clock offset: -5.178 ms
Remote clock offset: -6.907 ms

Below is generated by plot.py at 2018-04-17 19:59:52
Datalink statistics
-- Total of 3 flows:
Average throughput: 77.16 Mbit/s
95th percentile per-packet one-way delay: 14.425 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 45.69 Mbit/s
95th percentile per-packet one-way delay: 10.389 ms
Loss rate: 0.09%
-- Flow 2:
Average throughput: 40.24 Mbit/s
95th percentile per-packet one-way delay: 29.955 ms
Loss rate: 0.26%
-- Flow 3:
Average throughput: 14.32 Mbit/s
95th percentile per-packet one-way delay: 24.867 ms
Loss rate: 0.40%

Run 6: Report of PCC-Allegro — Data Link

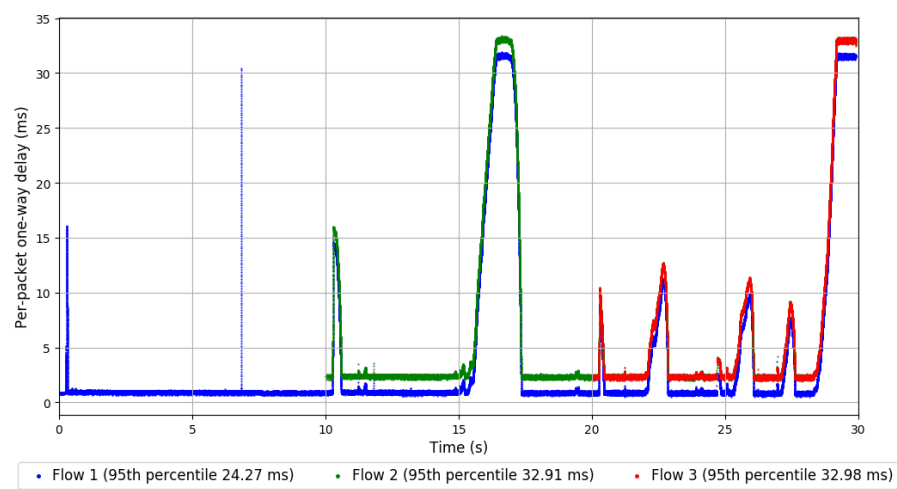
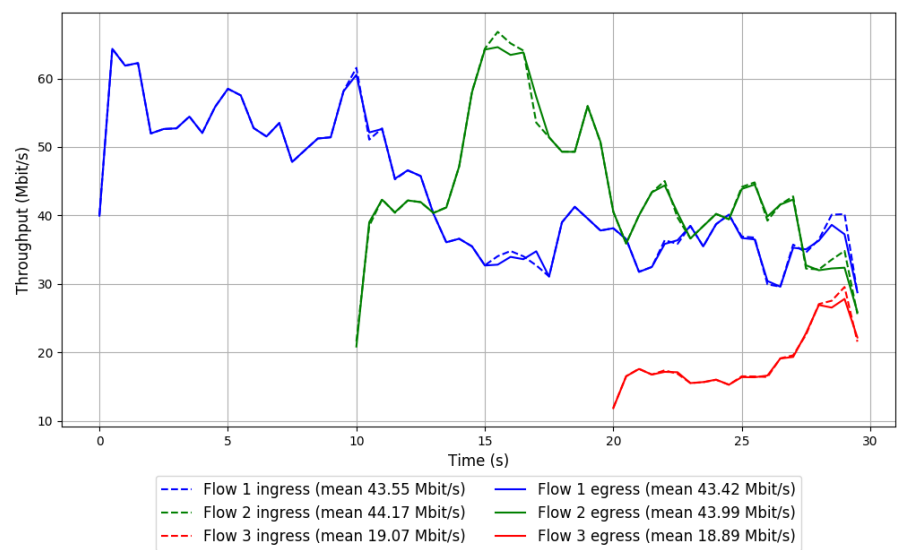


Run 7: Statistics of PCC-Allegro

Start at: 2018-04-17 18:11:33
End at: 2018-04-17 18:12:03
Local clock offset: -5.897 ms
Remote clock offset: -5.836 ms

Below is generated by plot.py at 2018-04-17 19:59:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 78.94 Mbit/s
95th percentile per-packet one-way delay: 31.467 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 43.42 Mbit/s
95th percentile per-packet one-way delay: 24.265 ms
Loss rate: 0.19%
-- Flow 2:
Average throughput: 43.99 Mbit/s
95th percentile per-packet one-way delay: 32.910 ms
Loss rate: 0.25%
-- Flow 3:
Average throughput: 18.89 Mbit/s
95th percentile per-packet one-way delay: 32.984 ms
Loss rate: 0.63%

Run 7: Report of PCC-Allegro — Data Link

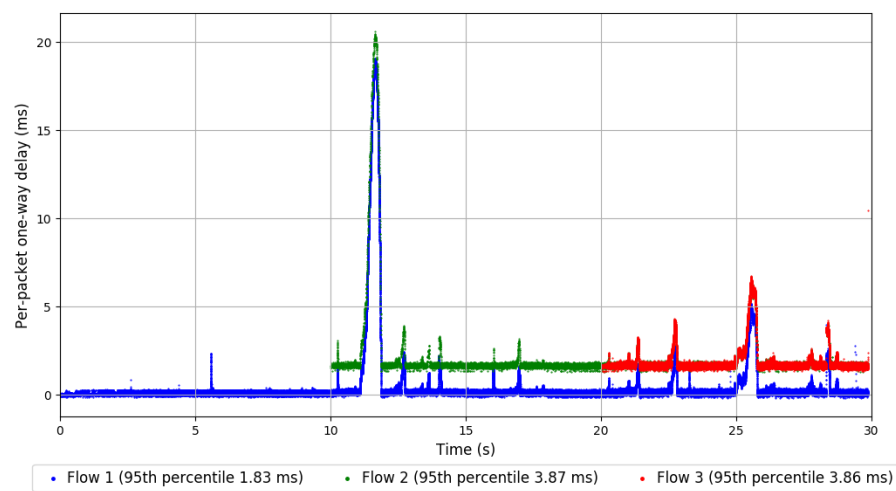
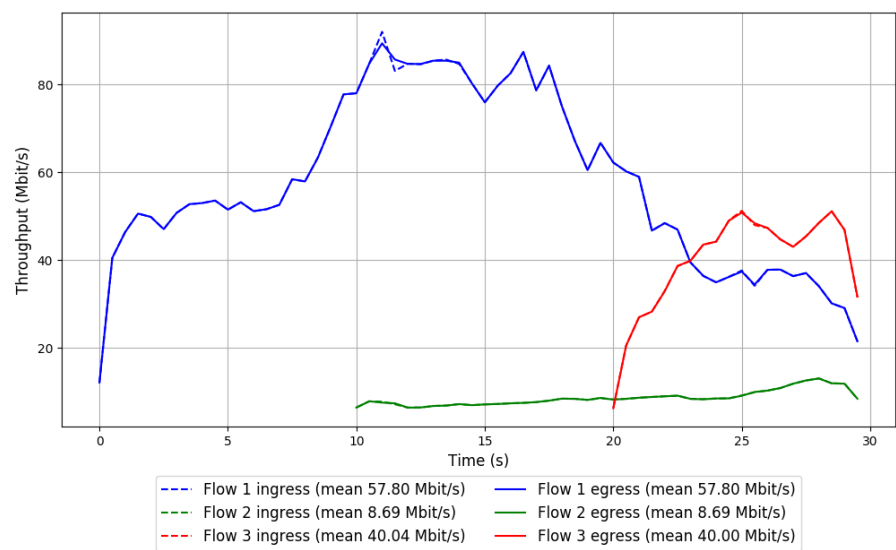


Run 8: Statistics of PCC-Allegro

Start at: 2018-04-17 18:30:45
End at: 2018-04-17 18:31:15
Local clock offset: -5.024 ms
Remote clock offset: -1.054 ms

Below is generated by plot.py at 2018-04-17 19:59:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 76.76 Mbit/s
95th percentile per-packet one-way delay: 2.665 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 57.80 Mbit/s
95th percentile per-packet one-way delay: 1.832 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 8.69 Mbit/s
95th percentile per-packet one-way delay: 3.868 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 40.00 Mbit/s
95th percentile per-packet one-way delay: 3.864 ms
Loss rate: 0.00%

Run 8: Report of PCC-Allegro — Data Link



Run 9: Statistics of PCC-Allegro

Start at: 2018-04-17 18:49:55

End at: 2018-04-17 18:50:25

Local clock offset: -6.828 ms

Remote clock offset: 1.009 ms

Below is generated by plot.py at 2018-04-17 19:59:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 77.19 Mbit/s

95th percentile per-packet one-way delay: 11.517 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 51.21 Mbit/s

95th percentile per-packet one-way delay: 10.231 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 25.60 Mbit/s

95th percentile per-packet one-way delay: 10.590 ms

Loss rate: 0.00%

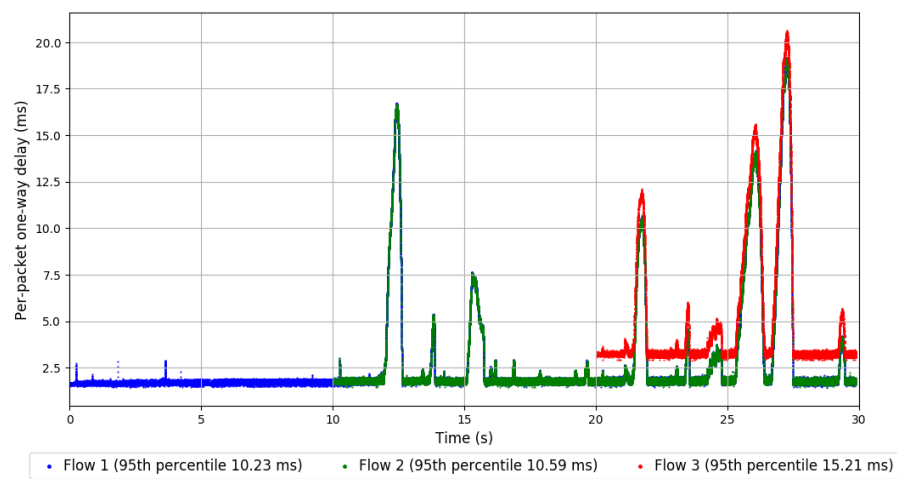
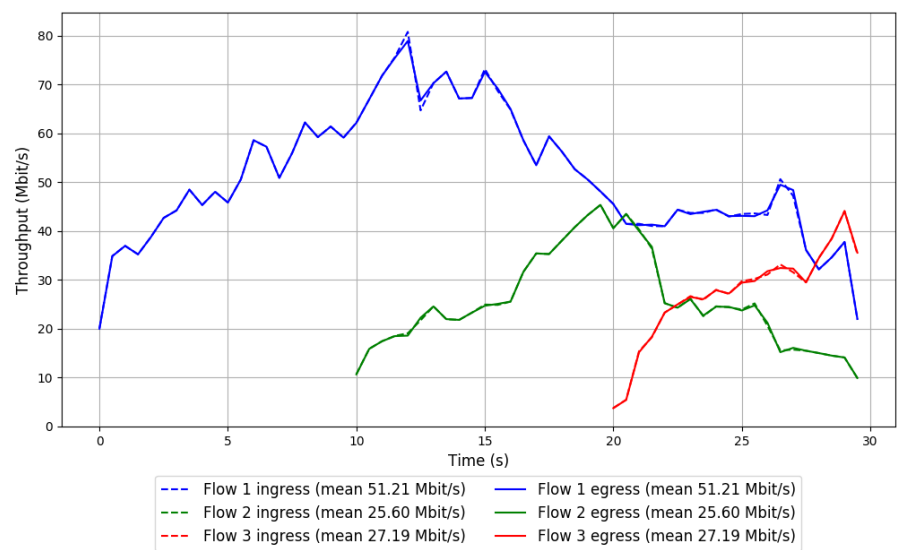
-- Flow 3:

Average throughput: 27.19 Mbit/s

95th percentile per-packet one-way delay: 15.214 ms

Loss rate: 0.00%

Run 9: Report of PCC-Allegro — Data Link



Run 10: Statistics of PCC-Allegro

Start at: 2018-04-17 19:09:44

End at: 2018-04-17 19:10:14

Local clock offset: -5.985 ms

Remote clock offset: 2.819 ms

Below is generated by plot.py at 2018-04-17 20:00:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.32 Mbit/s

95th percentile per-packet one-way delay: 14.882 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 81.08 Mbit/s

95th percentile per-packet one-way delay: 14.689 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 6.86 Mbit/s

95th percentile per-packet one-way delay: 21.470 ms

Loss rate: 0.28%

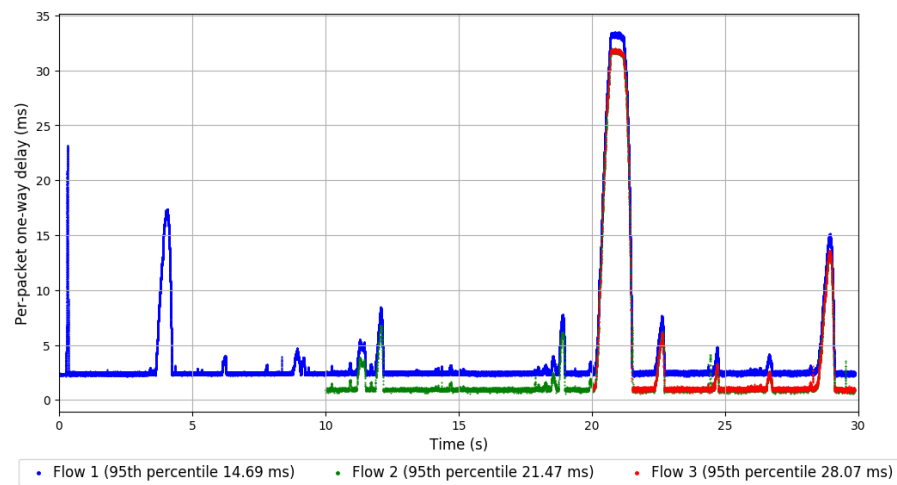
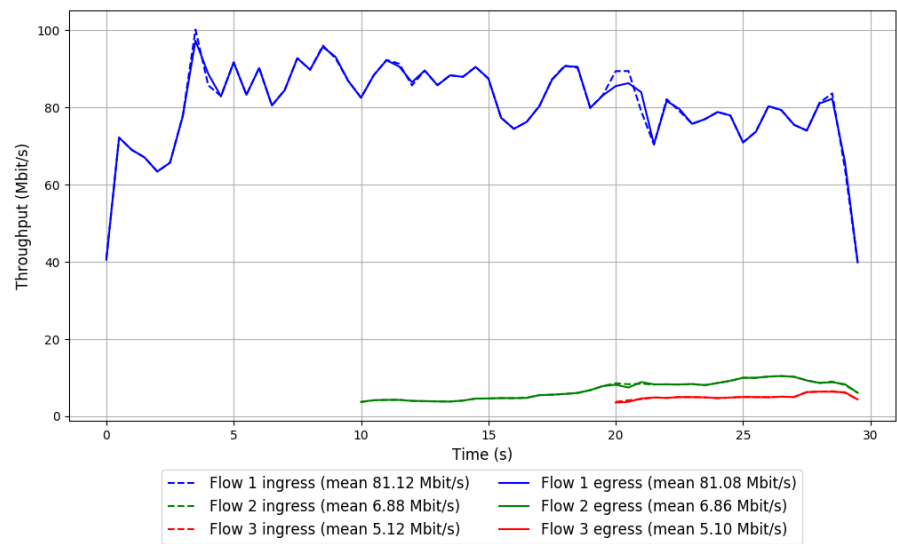
-- Flow 3:

Average throughput: 5.10 Mbit/s

95th percentile per-packet one-way delay: 28.070 ms

Loss rate: 0.38%

Run 10: Report of PCC-Allegro — Data Link

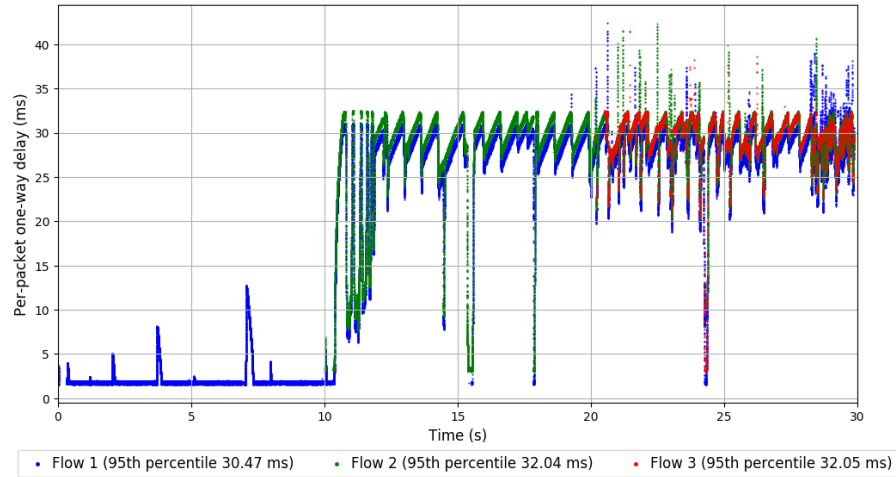
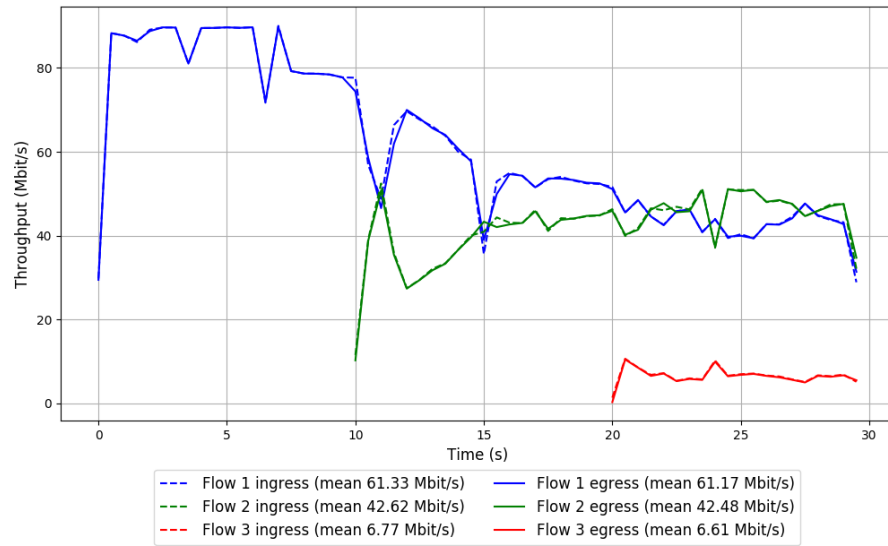


Run 1: Statistics of QUIC Cubic

Start at: 2018-04-17 16:30:56
End at: 2018-04-17 16:31:26
Local clock offset: -6.871 ms
Remote clock offset: -7.082 ms

Below is generated by plot.py at 2018-04-17 20:01:08
Datalink statistics
-- Total of 3 flows:
Average throughput: 91.57 Mbit/s
95th percentile per-packet one-way delay: 31.622 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 61.17 Mbit/s
95th percentile per-packet one-way delay: 30.474 ms
Loss rate: 0.17%
-- Flow 2:
Average throughput: 42.48 Mbit/s
95th percentile per-packet one-way delay: 32.044 ms
Loss rate: 0.22%
-- Flow 3:
Average throughput: 6.61 Mbit/s
95th percentile per-packet one-way delay: 32.052 ms
Loss rate: 2.40%

Run 1: Report of QUIC Cubic — Data Link

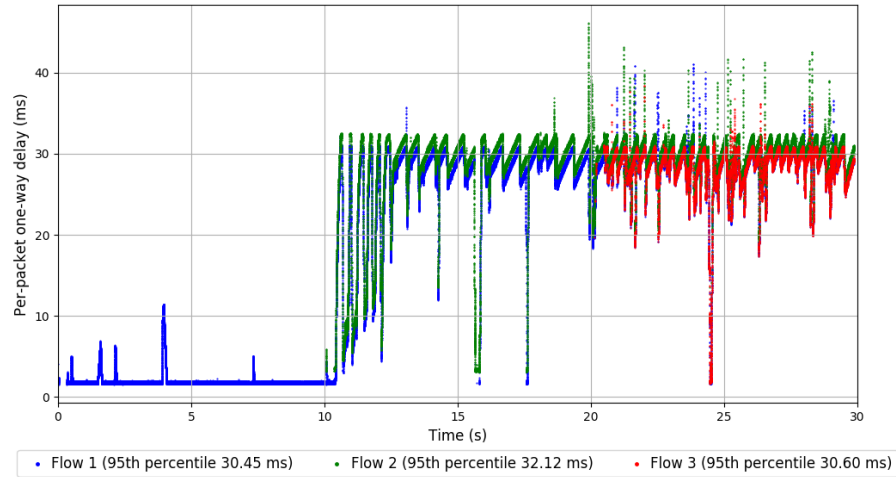
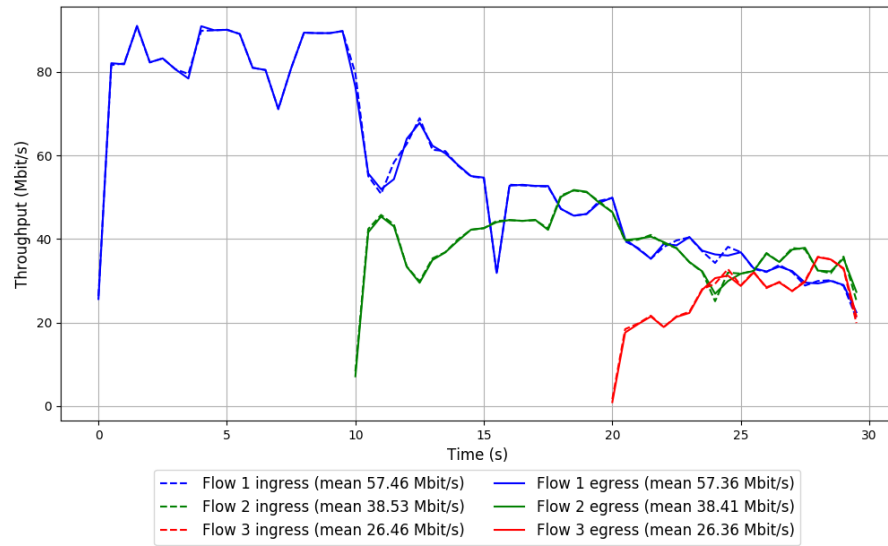


Run 2: Statistics of QUIC Cubic

Start at: 2018-04-17 16:50:08
End at: 2018-04-17 16:50:38
Local clock offset: -6.885 ms
Remote clock offset: -6.786 ms

Below is generated by plot.py at 2018-04-17 20:01:14
Datalink statistics
-- Total of 3 flows:
Average throughput: 91.45 Mbit/s
95th percentile per-packet one-way delay: 31.634 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 57.36 Mbit/s
95th percentile per-packet one-way delay: 30.447 ms
Loss rate: 0.09%
-- Flow 2:
Average throughput: 38.41 Mbit/s
95th percentile per-packet one-way delay: 32.117 ms
Loss rate: 0.18%
-- Flow 3:
Average throughput: 26.36 Mbit/s
95th percentile per-packet one-way delay: 30.600 ms
Loss rate: 0.28%

Run 2: Report of QUIC Cubic — Data Link

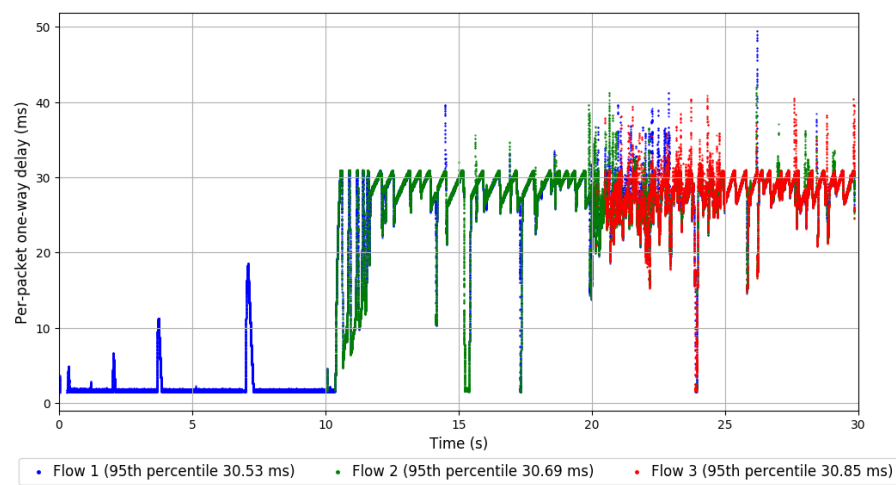
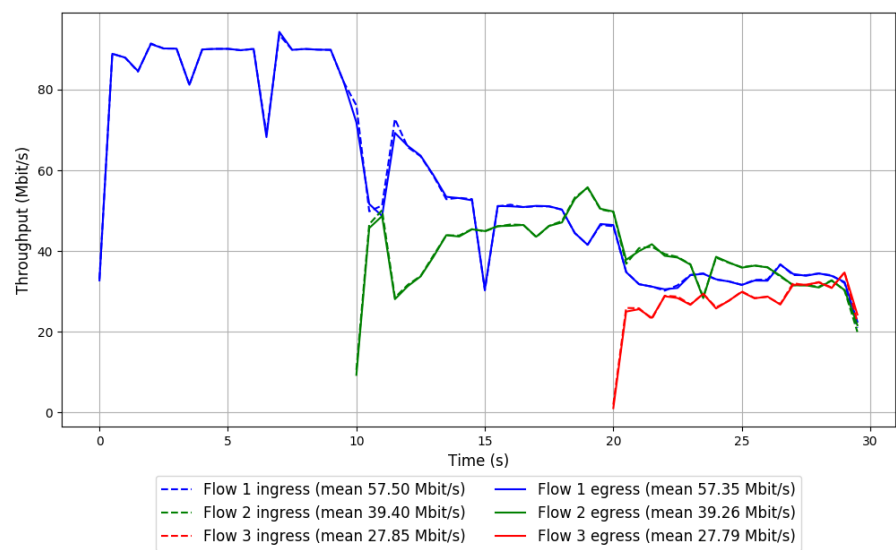


Run 3: Statistics of QUIC Cubic

Start at: 2018-04-17 17:09:21
End at: 2018-04-17 17:09:51
Local clock offset: -6.882 ms
Remote clock offset: -6.924 ms

Below is generated by plot.py at 2018-04-17 20:01:23
Datalink statistics
-- Total of 3 flows:
Average throughput: 92.47 Mbit/s
95th percentile per-packet one-way delay: 30.632 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 57.35 Mbit/s
95th percentile per-packet one-way delay: 30.526 ms
Loss rate: 0.19%
-- Flow 2:
Average throughput: 39.26 Mbit/s
95th percentile per-packet one-way delay: 30.691 ms
Loss rate: 0.25%
-- Flow 3:
Average throughput: 27.79 Mbit/s
95th percentile per-packet one-way delay: 30.849 ms
Loss rate: 0.25%

Run 3: Report of QUIC Cubic — Data Link

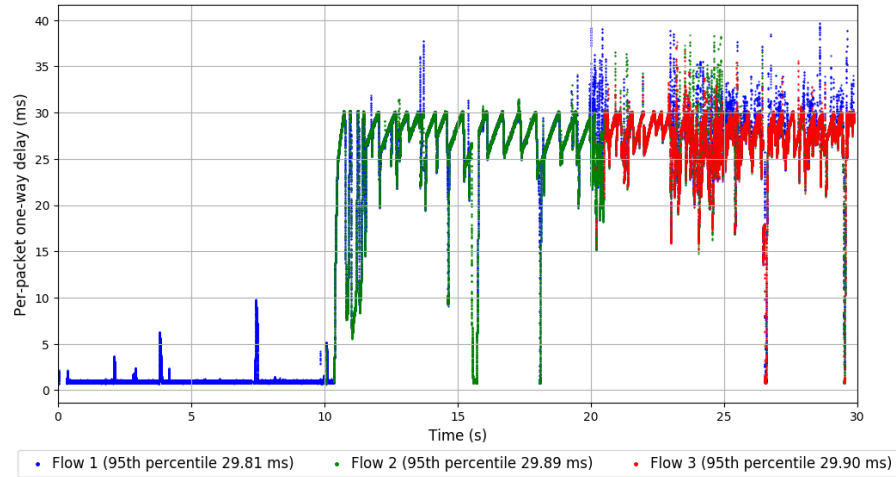
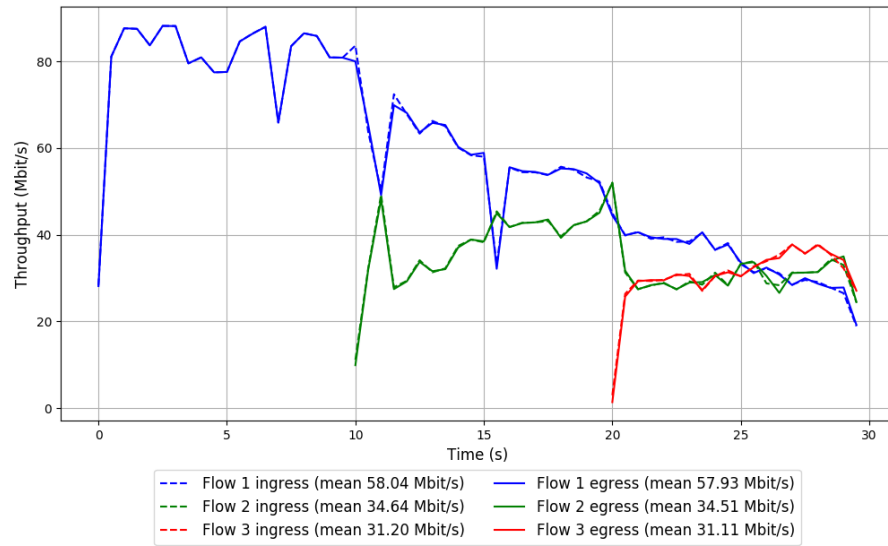


Run 4: Statistics of QUIC Cubic

Start at: 2018-04-17 17:28:31
End at: 2018-04-17 17:29:01
Local clock offset: -5.993 ms
Remote clock offset: -6.969 ms

Below is generated by plot.py at 2018-04-17 20:01:28
Datalink statistics
-- Total of 3 flows:
Average throughput: 90.99 Mbit/s
95th percentile per-packet one-way delay: 29.852 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 57.93 Mbit/s
95th percentile per-packet one-way delay: 29.806 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 34.51 Mbit/s
95th percentile per-packet one-way delay: 29.891 ms
Loss rate: 0.23%
-- Flow 3:
Average throughput: 31.11 Mbit/s
95th percentile per-packet one-way delay: 29.902 ms
Loss rate: 0.25%

Run 4: Report of QUIC Cubic — Data Link

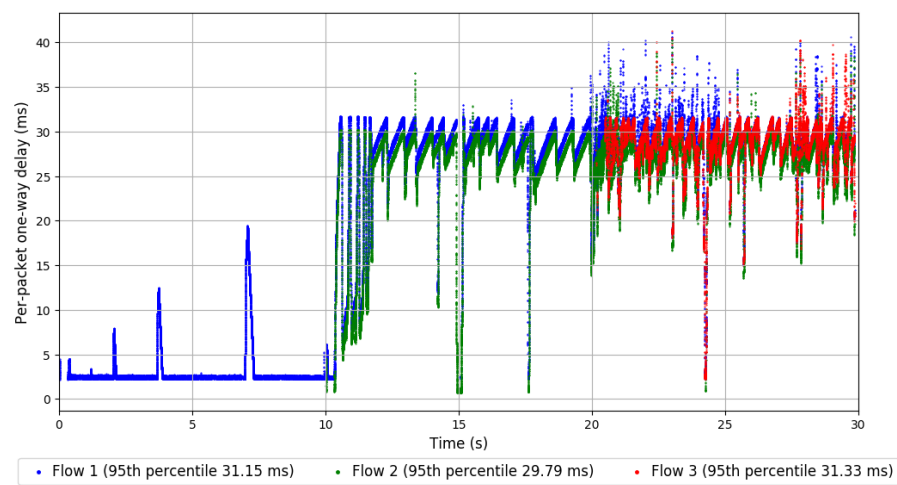
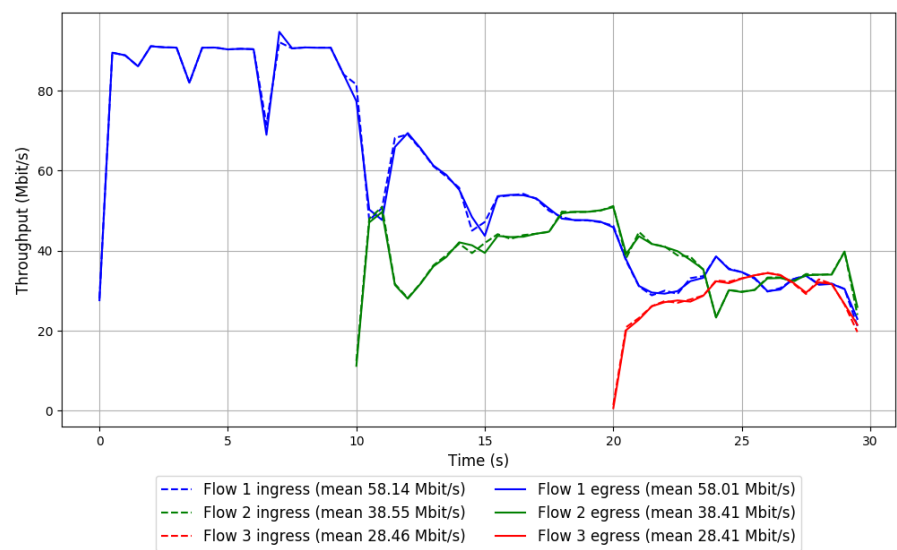


Run 5: Statistics of QUIC Cubic

Start at: 2018-04-17 17:47:41
End at: 2018-04-17 17:48:11
Local clock offset: -5.943 ms
Remote clock offset: -6.872 ms

Below is generated by plot.py at 2018-04-17 20:01:32
Datalink statistics
-- Total of 3 flows:
Average throughput: 92.80 Mbit/s
95th percentile per-packet one-way delay: 31.088 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 58.01 Mbit/s
95th percentile per-packet one-way delay: 31.150 ms
Loss rate: 0.15%
-- Flow 2:
Average throughput: 38.41 Mbit/s
95th percentile per-packet one-way delay: 29.787 ms
Loss rate: 0.27%
-- Flow 3:
Average throughput: 28.41 Mbit/s
95th percentile per-packet one-way delay: 31.329 ms
Loss rate: 0.22%

Run 5: Report of QUIC Cubic — Data Link

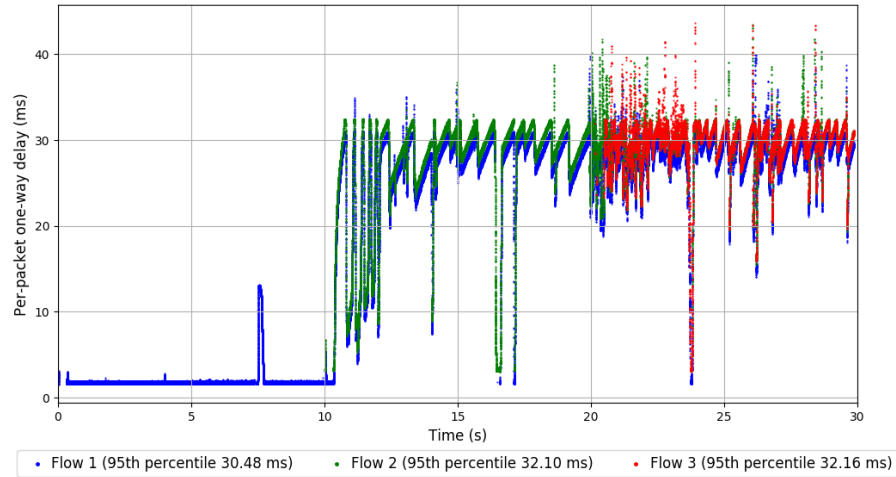
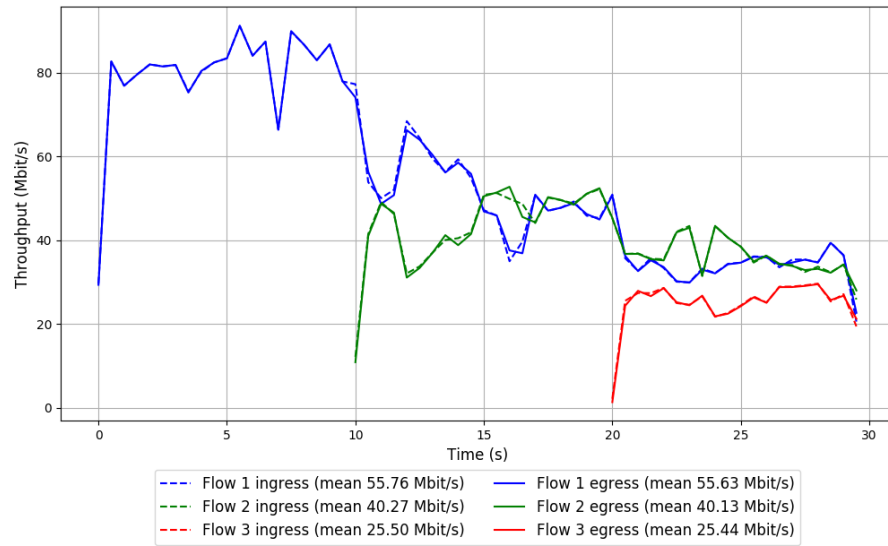


Run 6: Statistics of QUIC Cubic

Start at: 2018-04-17 18:06:53
End at: 2018-04-17 18:07:23
Local clock offset: -6.593 ms
Remote clock offset: -6.846 ms

Below is generated by plot.py at 2018-04-17 20:01:32
Datalink statistics
-- Total of 3 flows:
Average throughput: 90.61 Mbit/s
95th percentile per-packet one-way delay: 31.780 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 55.63 Mbit/s
95th percentile per-packet one-way delay: 30.477 ms
Loss rate: 0.14%
-- Flow 2:
Average throughput: 40.13 Mbit/s
95th percentile per-packet one-way delay: 32.097 ms
Loss rate: 0.19%
-- Flow 3:
Average throughput: 25.44 Mbit/s
95th percentile per-packet one-way delay: 32.160 ms
Loss rate: 0.24%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-04-17 18:26:05

End at: 2018-04-17 18:26:35

Local clock offset: -5.802 ms

Remote clock offset: -1.78 ms

Below is generated by plot.py at 2018-04-17 20:01:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 76.96 Mbit/s

95th percentile per-packet one-way delay: 29.515 ms

Loss rate: 0.66%

-- Flow 1:

Average throughput: 25.51 Mbit/s

95th percentile per-packet one-way delay: 27.837 ms

Loss rate: 1.67%

-- Flow 2:

Average throughput: 59.17 Mbit/s

95th percentile per-packet one-way delay: 29.505 ms

Loss rate: 0.12%

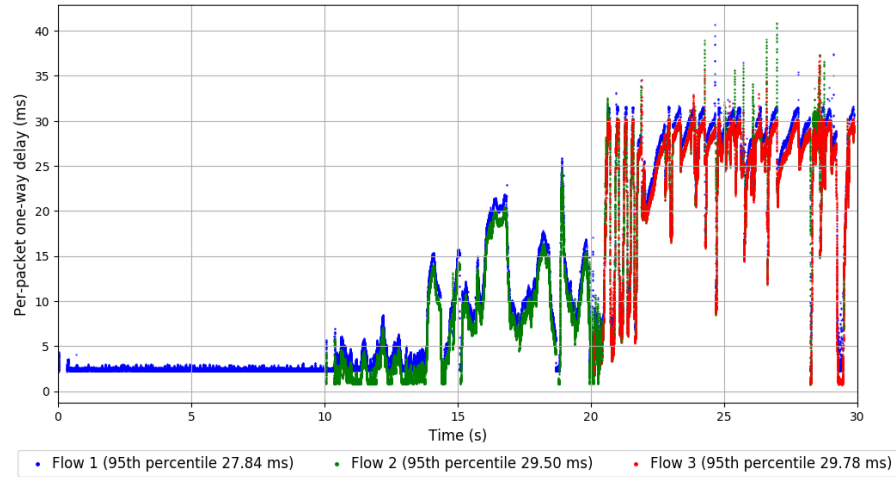
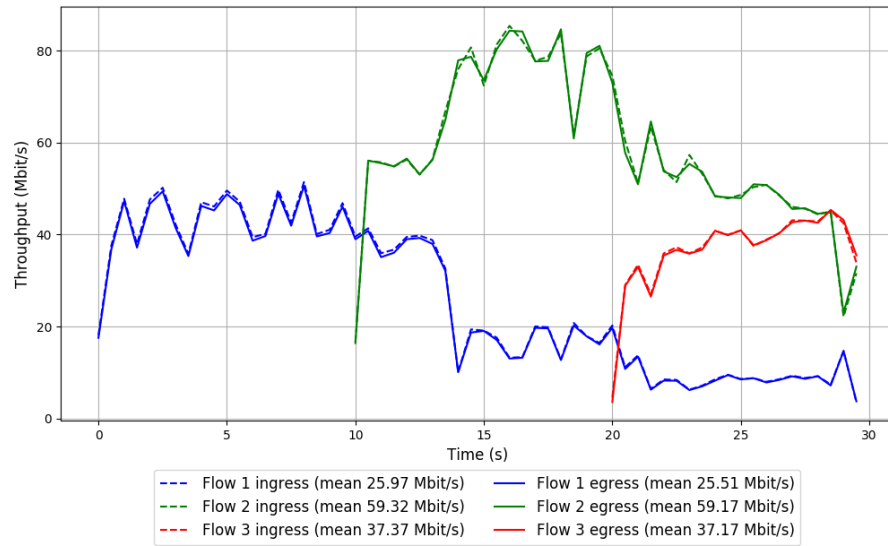
-- Flow 3:

Average throughput: 37.17 Mbit/s

95th percentile per-packet one-way delay: 29.777 ms

Loss rate: 0.28%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

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

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

Local clock offset: -5.232 ms

Remote clock offset: 0.543 ms

Below is generated by plot.py at 2018-04-17 20:01:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.50 Mbit/s

95th percentile per-packet one-way delay: 30.521 ms

Loss rate: 0.17%

-- Flow 1:

Average throughput: 59.10 Mbit/s

95th percentile per-packet one-way delay: 30.461 ms

Loss rate: 0.14%

-- Flow 2:

Average throughput: 34.79 Mbit/s

95th percentile per-packet one-way delay: 30.561 ms

Loss rate: 0.27%

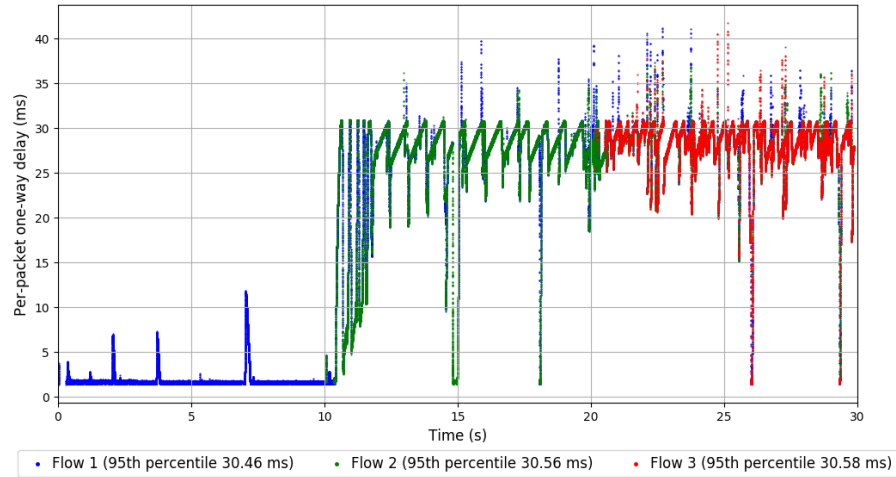
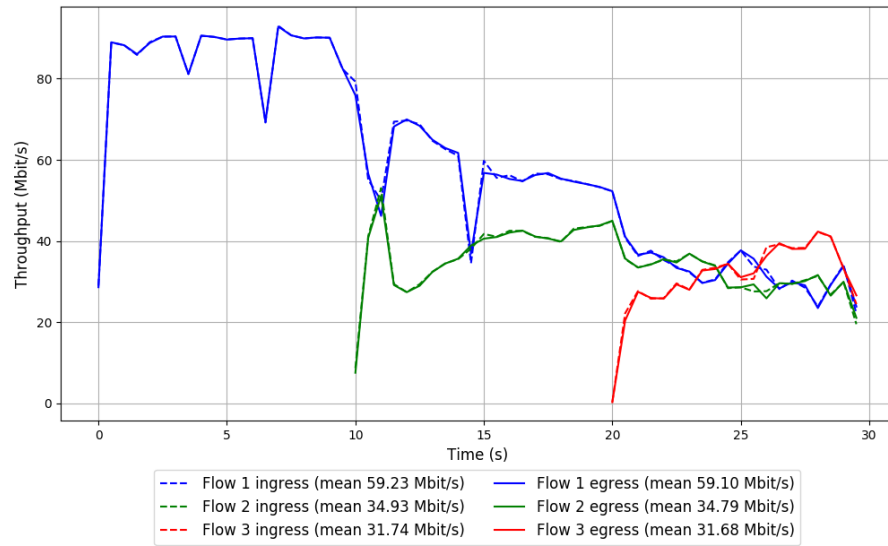
-- Flow 3:

Average throughput: 31.68 Mbit/s

95th percentile per-packet one-way delay: 30.581 ms

Loss rate: 0.14%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

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

End at: 2018-04-17 19:05:34

Local clock offset: -5.989 ms

Remote clock offset: 2.398 ms

Below is generated by plot.py at 2018-04-17 20:02:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.62 Mbit/s

95th percentile per-packet one-way delay: 29.947 ms

Loss rate: 0.21%

-- Flow 1:

Average throughput: 56.39 Mbit/s

95th percentile per-packet one-way delay: 29.635 ms

Loss rate: 0.20%

-- Flow 2:

Average throughput: 37.12 Mbit/s

95th percentile per-packet one-way delay: 29.796 ms

Loss rate: 0.23%

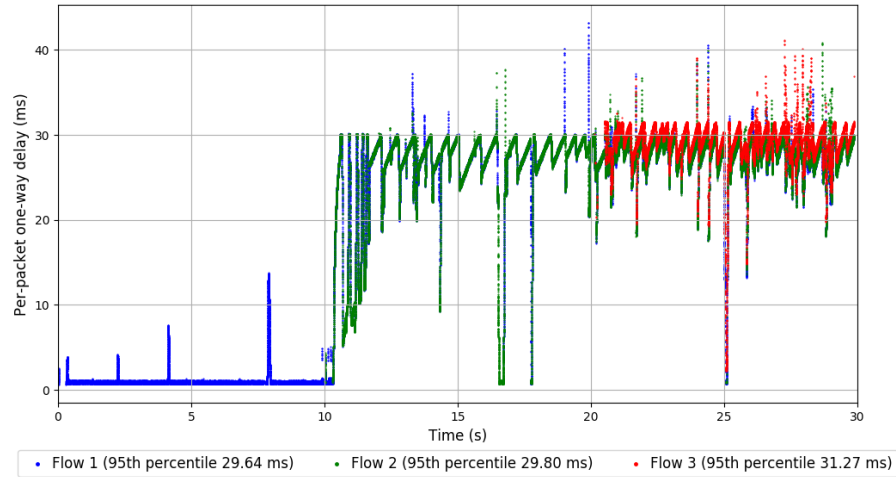
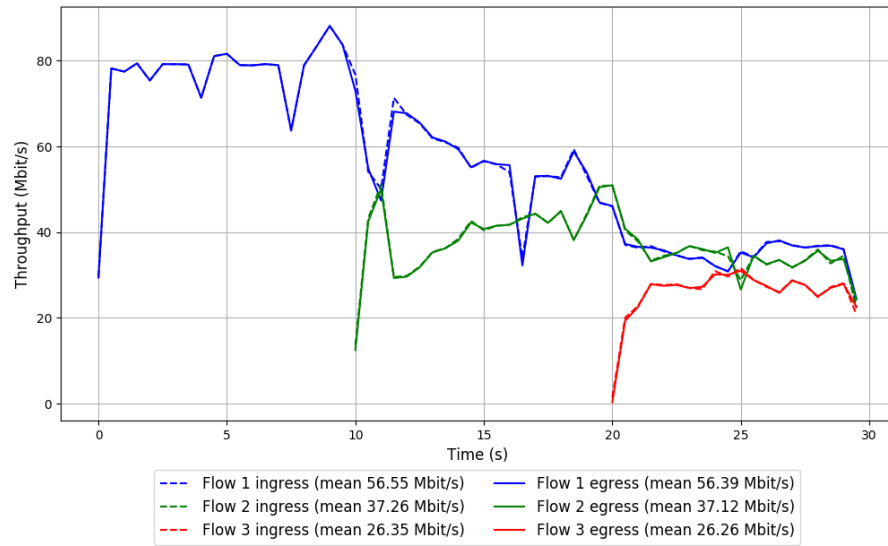
-- Flow 3:

Average throughput: 26.26 Mbit/s

95th percentile per-packet one-way delay: 31.265 ms

Loss rate: 0.28%

Run 9: Report of QUIC Cubic — Data Link

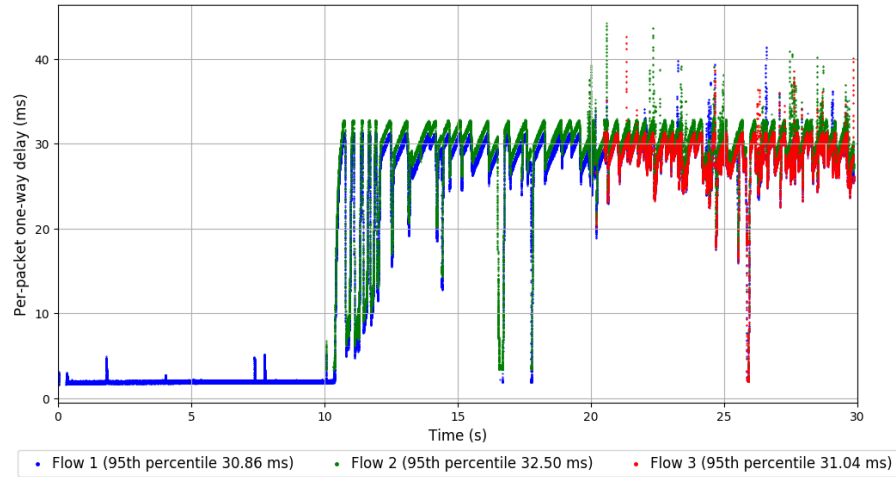
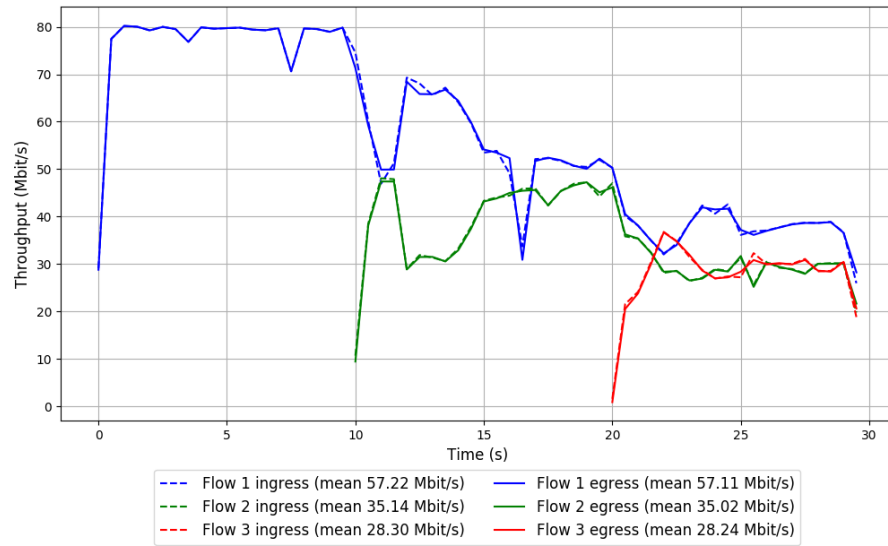


Run 10: Statistics of QUIC Cubic

Start at: 2018-04-17 19:24:17
End at: 2018-04-17 19:24:47
Local clock offset: -6.652 ms
Remote clock offset: -2.313 ms

Below is generated by plot.py at 2018-04-17 20:02:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 89.57 Mbit/s
95th percentile per-packet one-way delay: 31.990 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 57.11 Mbit/s
95th percentile per-packet one-way delay: 30.856 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 35.02 Mbit/s
95th percentile per-packet one-way delay: 32.500 ms
Loss rate: 0.22%
-- Flow 3:
Average throughput: 28.24 Mbit/s
95th percentile per-packet one-way delay: 31.044 ms
Loss rate: 0.23%

Run 10: Report of QUIC Cubic — Data Link



Run 1: Statistics of SReAM

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

End at: 2018-04-17 16:19:09

Local clock offset: -5.468 ms

Remote clock offset: -7.22 ms

Below is generated by plot.py at 2018-04-17 20:02:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 1.631 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.634 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 0.179 ms

Loss rate: 0.00%

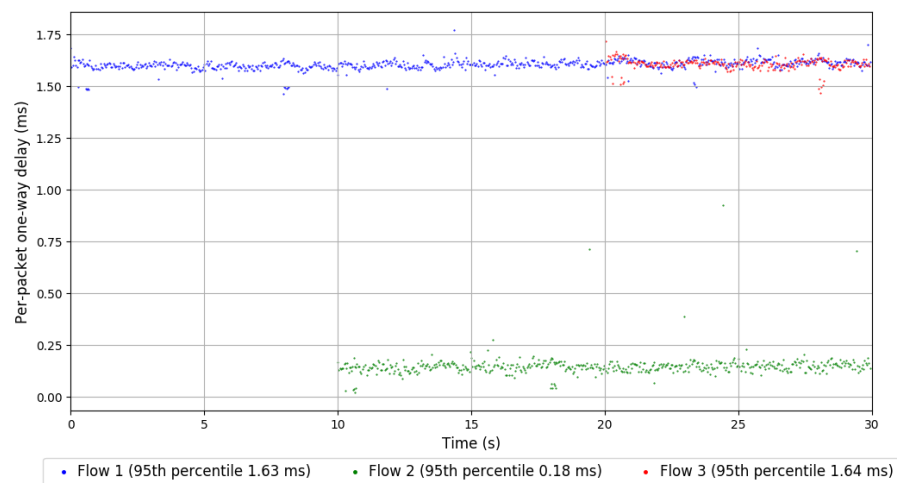
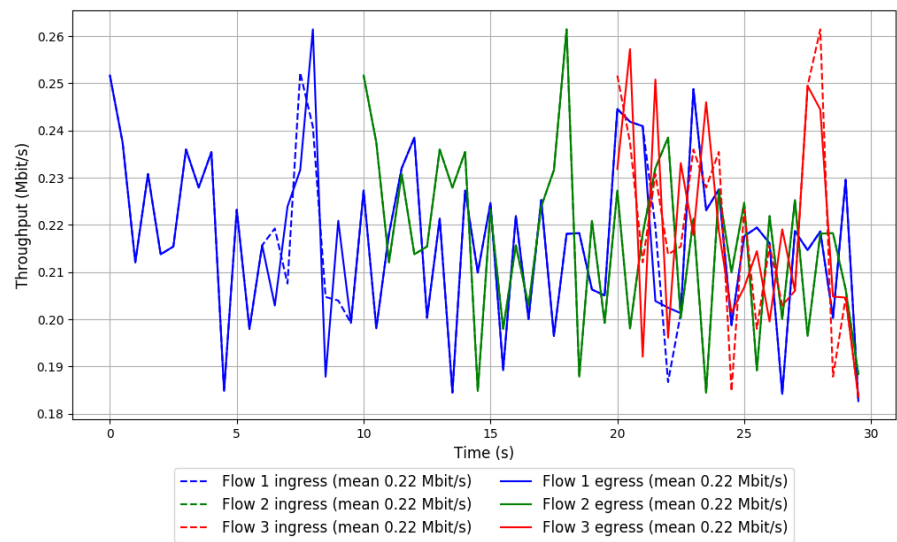
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.643 ms

Loss rate: 0.00%

Run 1: Report of SReAM — Data Link

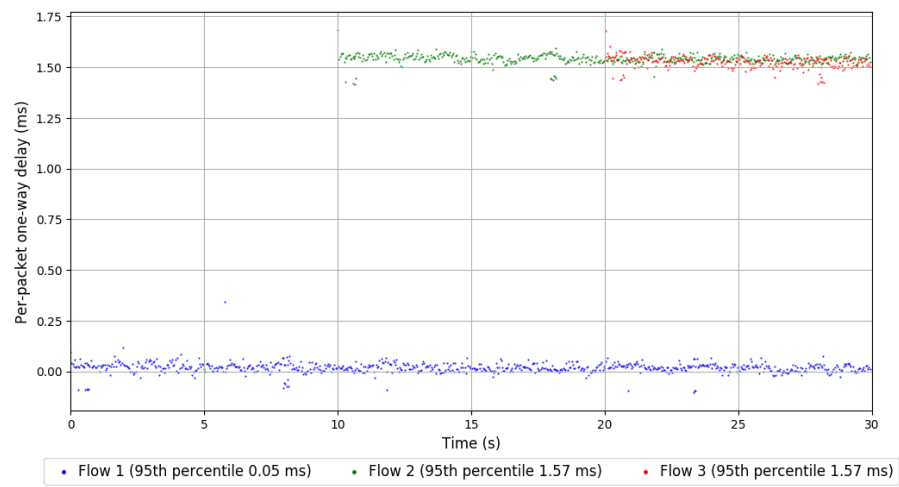
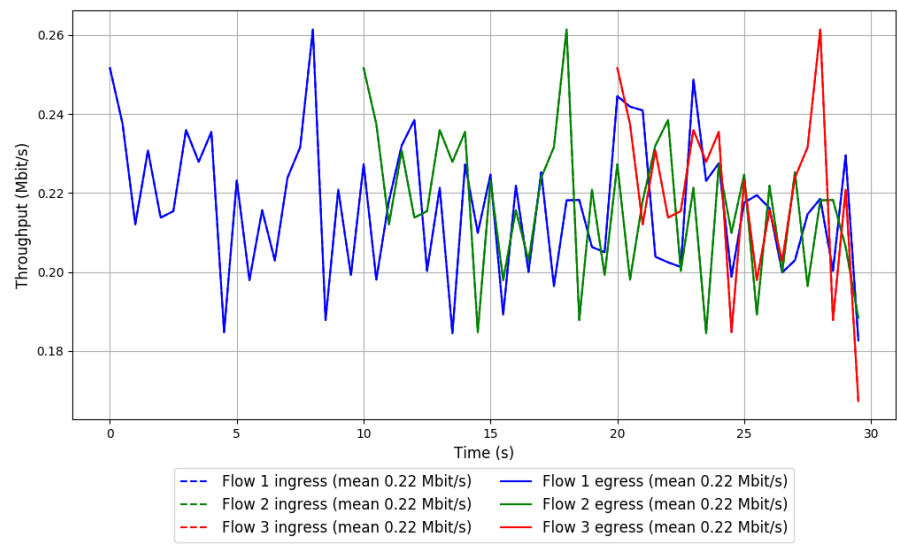


Run 2: Statistics of SReAM

Start at: 2018-04-17 16:37:51
End at: 2018-04-17 16:38:21
Local clock offset: -5.372 ms
Remote clock offset: -6.917 ms

Below is generated by plot.py at 2018-04-17 20:02:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 1.564 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 0.054 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.570 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.570 ms
Loss rate: 0.00%

Run 2: Report of SReAM — Data Link

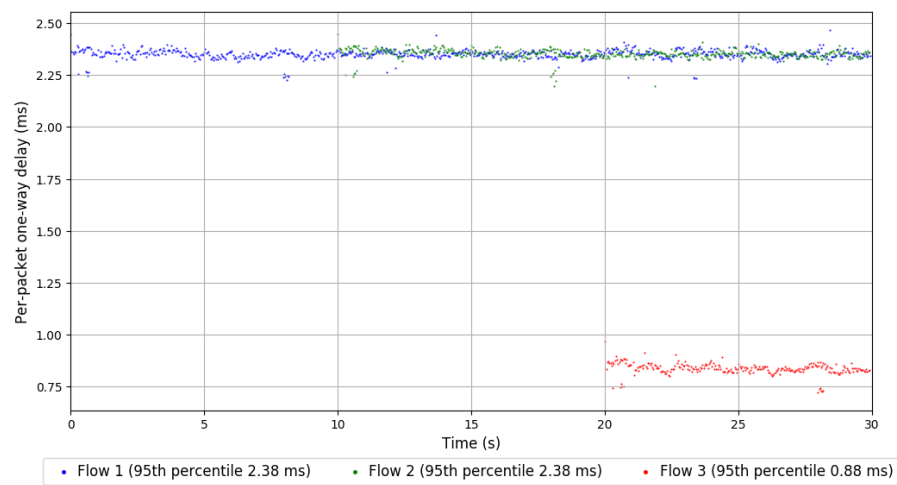
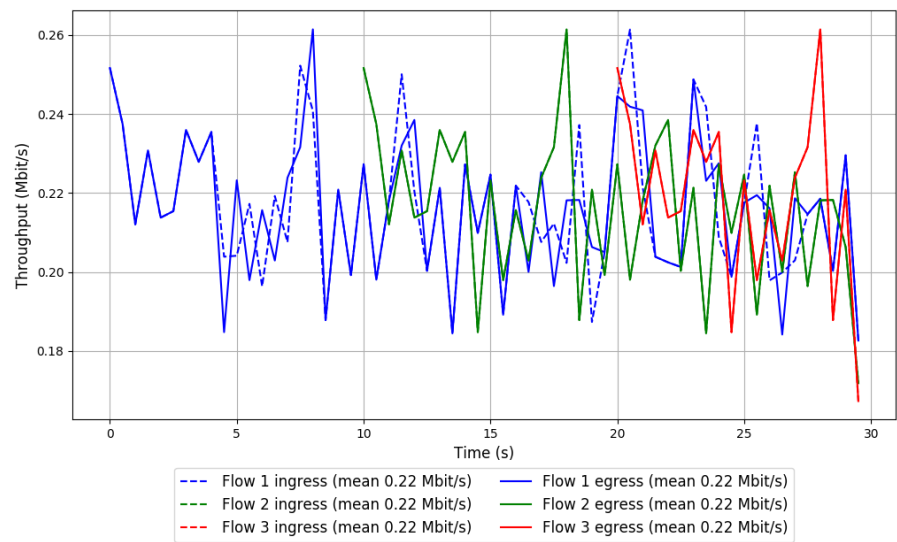


Run 3: Statistics of SReAM

Start at: 2018-04-17 16:57:03
End at: 2018-04-17 16:57:33
Local clock offset: -6.091 ms
Remote clock offset: -6.777 ms

Below is generated by plot.py at 2018-04-17 20:02:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 2.381 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.382 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.385 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 0.875 ms
Loss rate: 0.00%

Run 3: Report of SReAM — Data Link

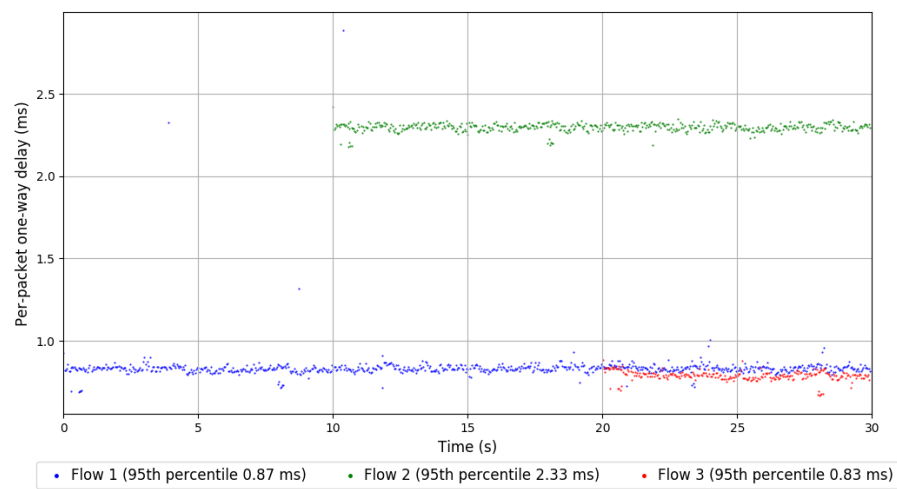
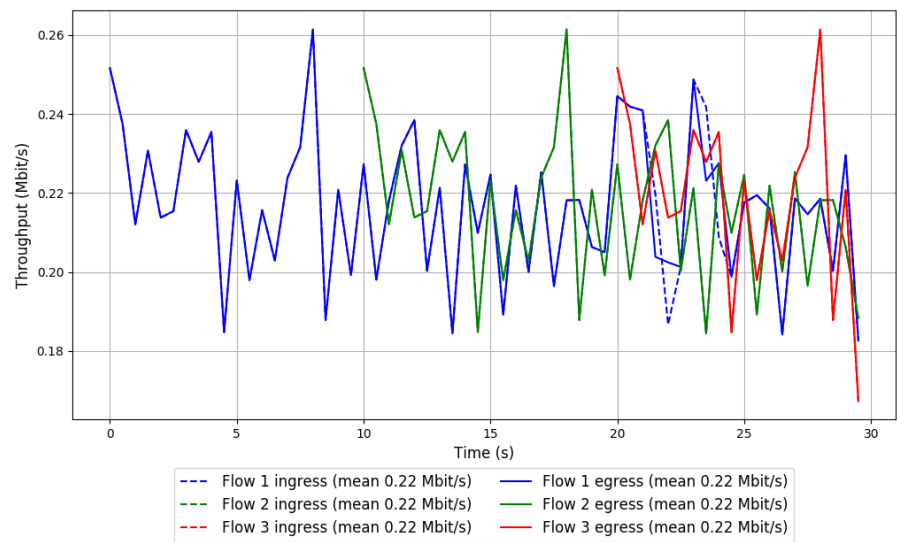


Run 4: Statistics of SReAM

Start at: 2018-04-17 17:16:14
End at: 2018-04-17 17:16:44
Local clock offset: -6.087 ms
Remote clock offset: -6.957 ms

Below is generated by plot.py at 2018-04-17 20:02:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 2.319 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 0.869 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.328 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 0.830 ms
Loss rate: 0.00%

Run 4: Report of SReAM — Data Link

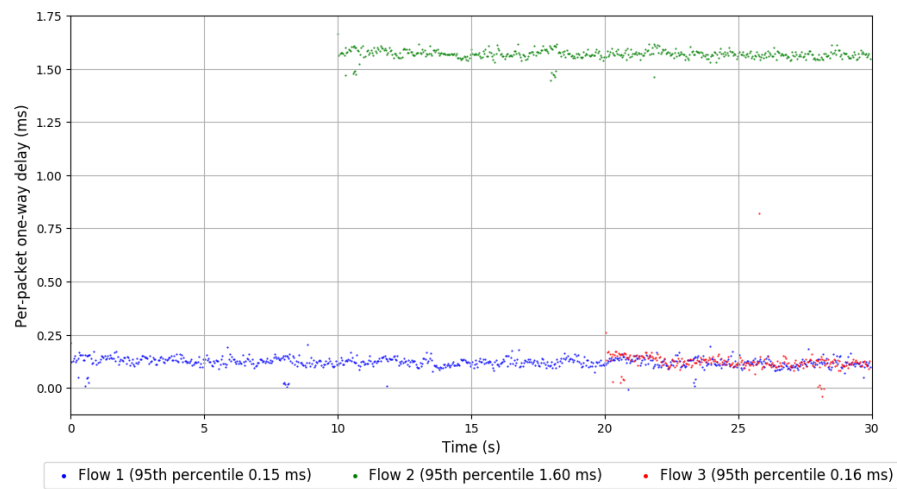
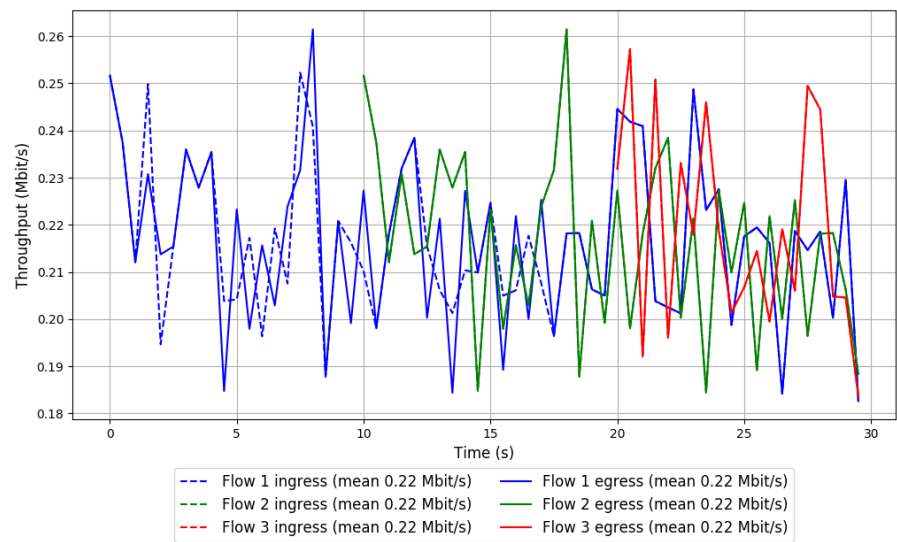


Run 5: Statistics of SReAM

Start at: 2018-04-17 17:35:24
End at: 2018-04-17 17:35:54
Local clock offset: -5.23 ms
Remote clock offset: -7.018 ms

Below is generated by plot.py at 2018-04-17 20:02:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 1.587 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 0.155 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.602 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 0.161 ms
Loss rate: 0.00%

Run 5: Report of SReAM — Data Link

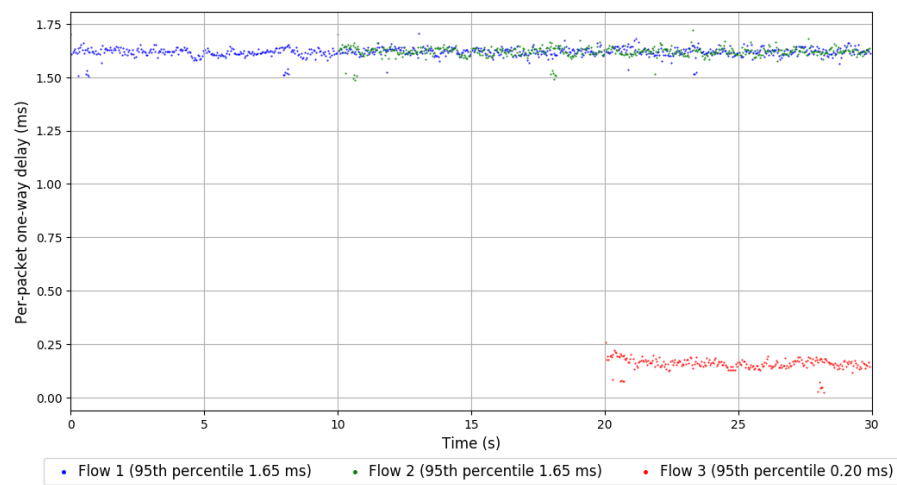
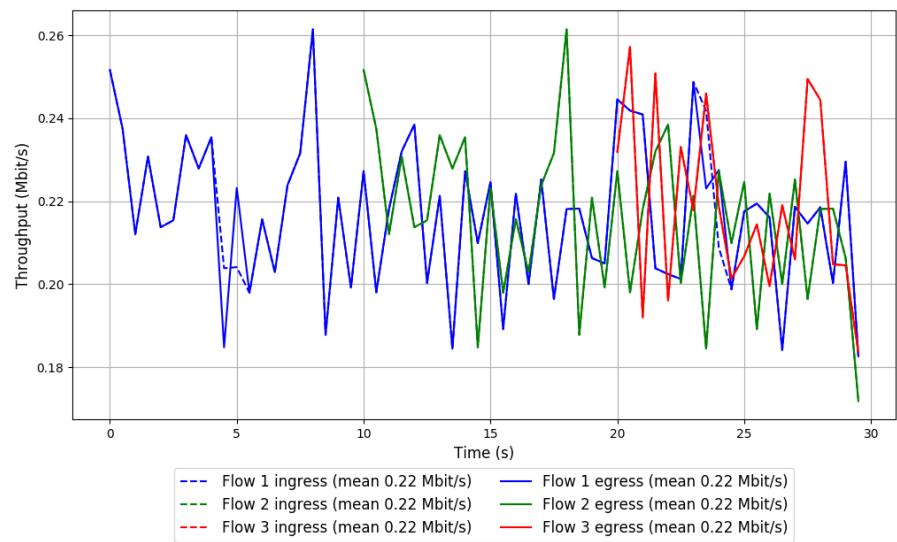


Run 6: Statistics of SReAM

Start at: 2018-04-17 17:54:36
End at: 2018-04-17 17:55:06
Local clock offset: -5.178 ms
Remote clock offset: -6.822 ms

Below is generated by plot.py at 2018-04-17 20:02:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 1.646 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.645 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.650 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 0.195 ms
Loss rate: 0.00%

Run 6: Report of SReAM — Data Link

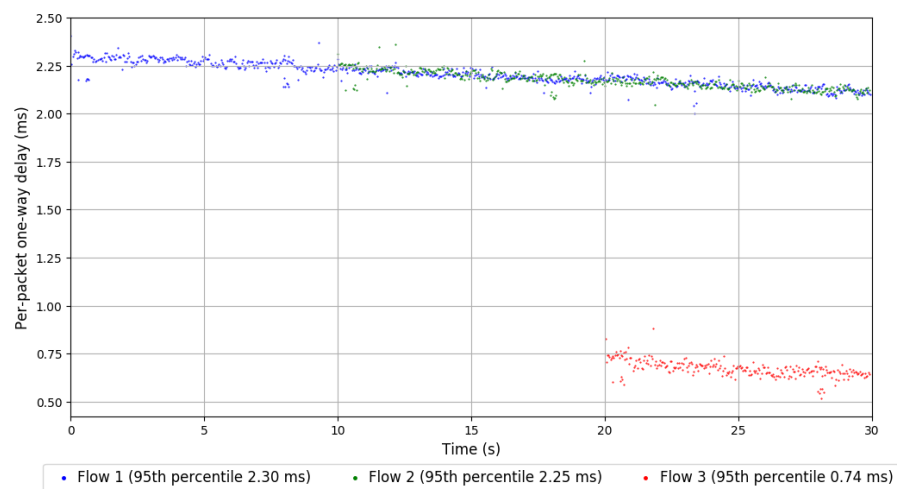
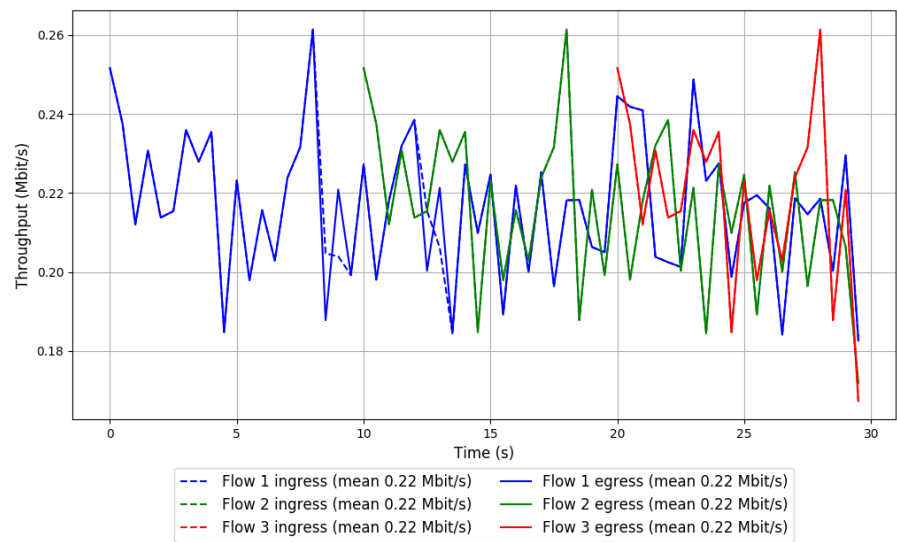


Run 7: Statistics of SReAM

Start at: 2018-04-17 18:13:48
End at: 2018-04-17 18:14:18
Local clock offset: -5.804 ms
Remote clock offset: -4.837 ms

Below is generated by plot.py at 2018-04-17 20:02:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 2.286 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.296 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.245 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 0.741 ms
Loss rate: 0.00%

Run 7: Report of SReAM — Data Link

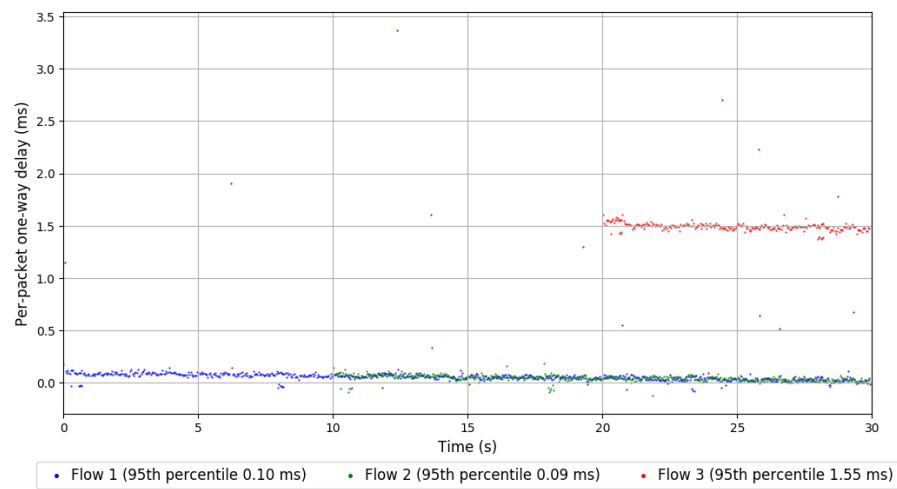
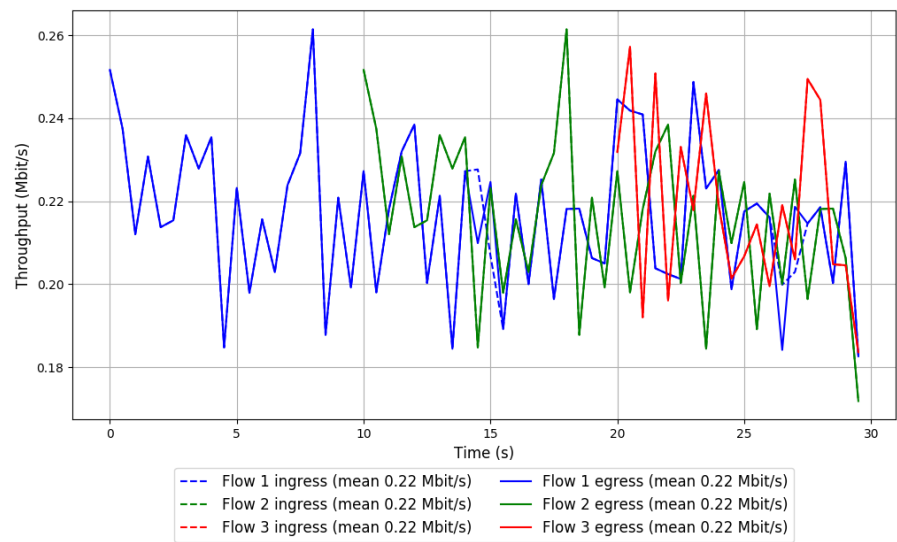


Run 8: Statistics of SReAM

Start at: 2018-04-17 18:32:59
End at: 2018-04-17 18:33:29
Local clock offset: -5.091 ms
Remote clock offset: -0.795 ms

Below is generated by plot.py at 2018-04-17 20:02:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 1.507 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 0.105 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 0.089 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.554 ms
Loss rate: 0.00%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SReAM

Start at: 2018-04-17 18:52:47

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

Local clock offset: -6.036 ms

Remote clock offset: 1.279 ms

Below is generated by plot.py at 2018-04-17 20:02:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 0.868 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 0.875 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 0.863 ms

Loss rate: 0.00%

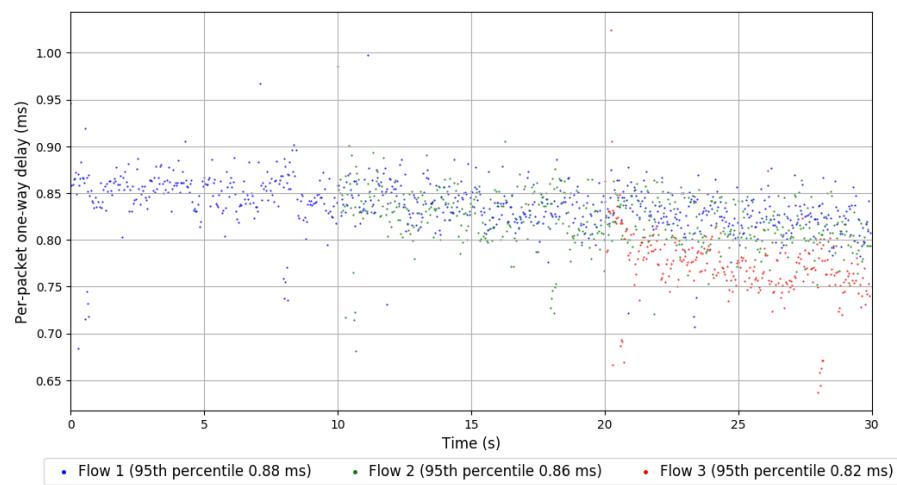
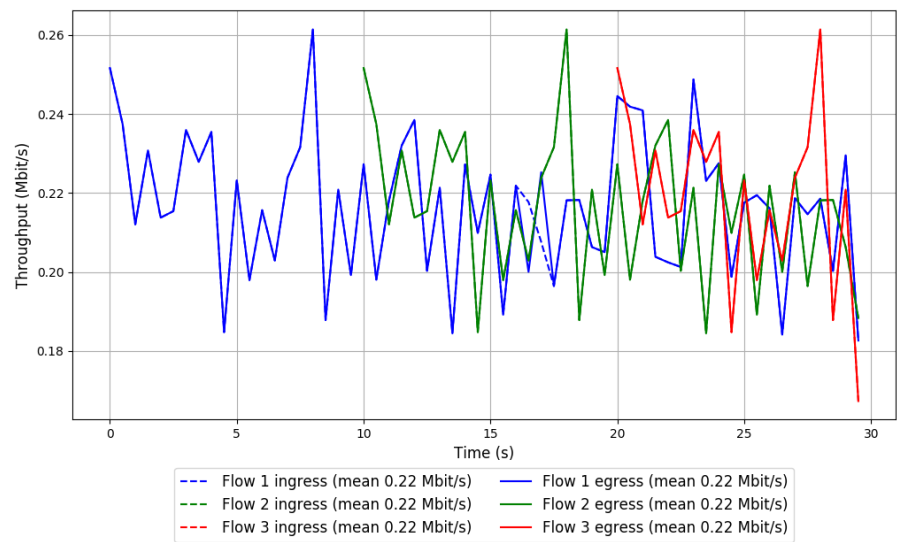
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 0.820 ms

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-04-17 19:11:59

End at: 2018-04-17 19:12:29

Local clock offset: -5.963 ms

Remote clock offset: 3.017 ms

Below is generated by plot.py at 2018-04-17 20:02:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 2.322 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 0.878 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.335 ms

Loss rate: 0.00%

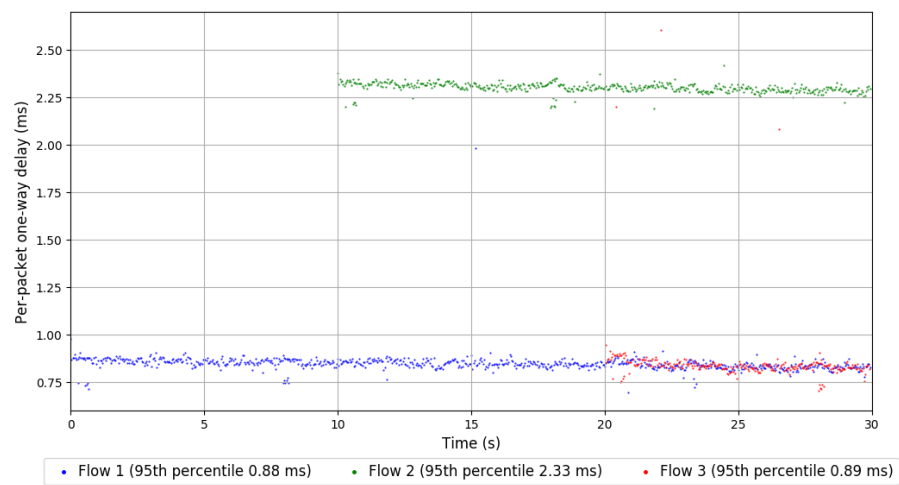
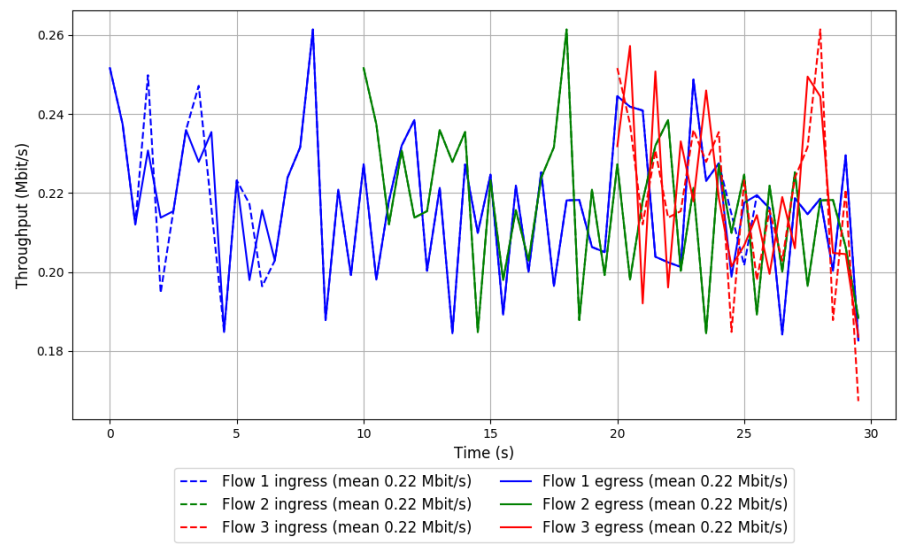
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 0.888 ms

Loss rate: 0.00%

Run 10: Report of SReAM — Data Link

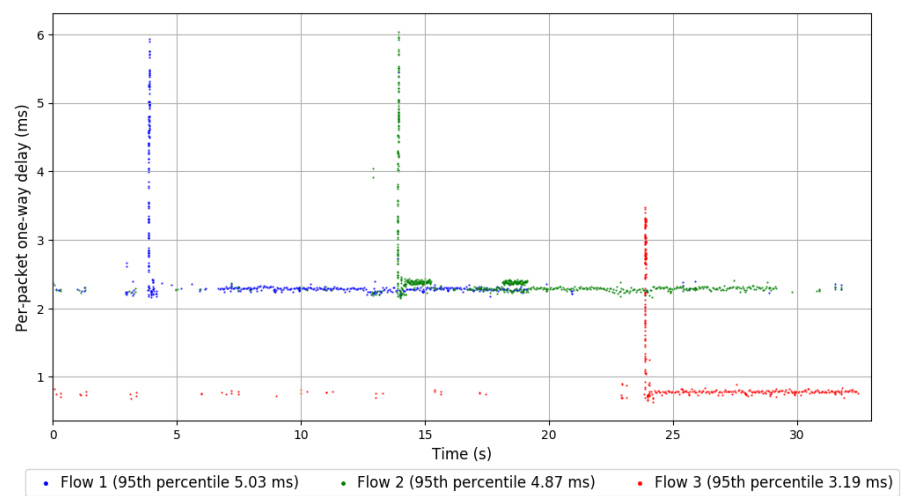
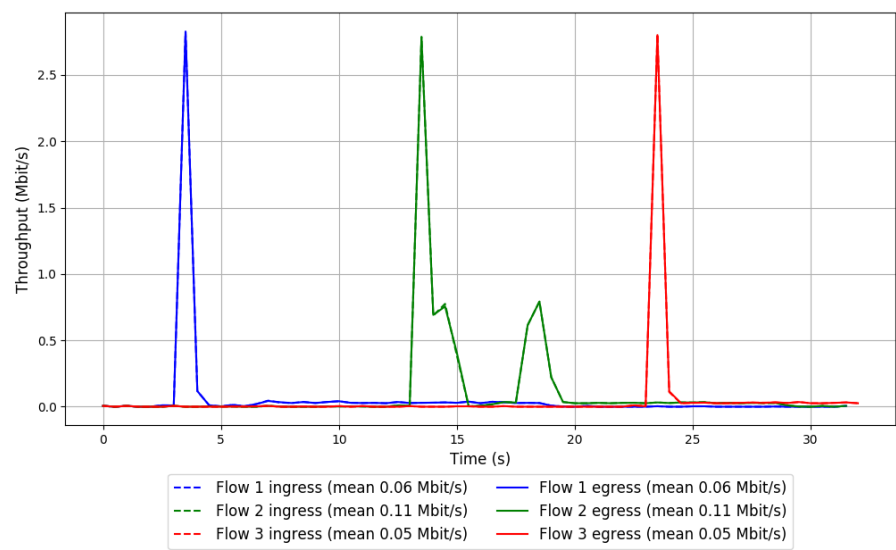


Run 1: Statistics of WebRTC media

Start at: 2018-04-17 16:24:13
End at: 2018-04-17 16:24:43
Local clock offset: -6.16 ms
Remote clock offset: -7.303 ms

Below is generated by plot.py at 2018-04-17 20:02:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 4.806 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 5.027 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.11 Mbit/s
95th percentile per-packet one-way delay: 4.872 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 3.191 ms
Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link

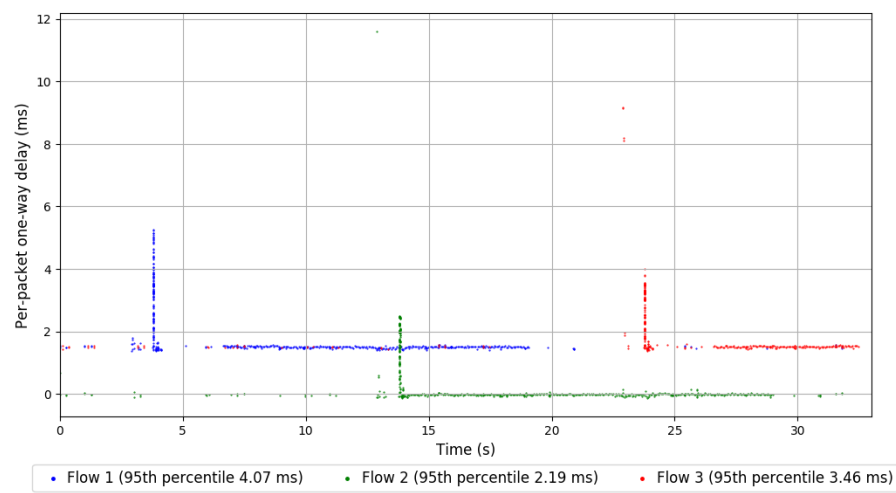
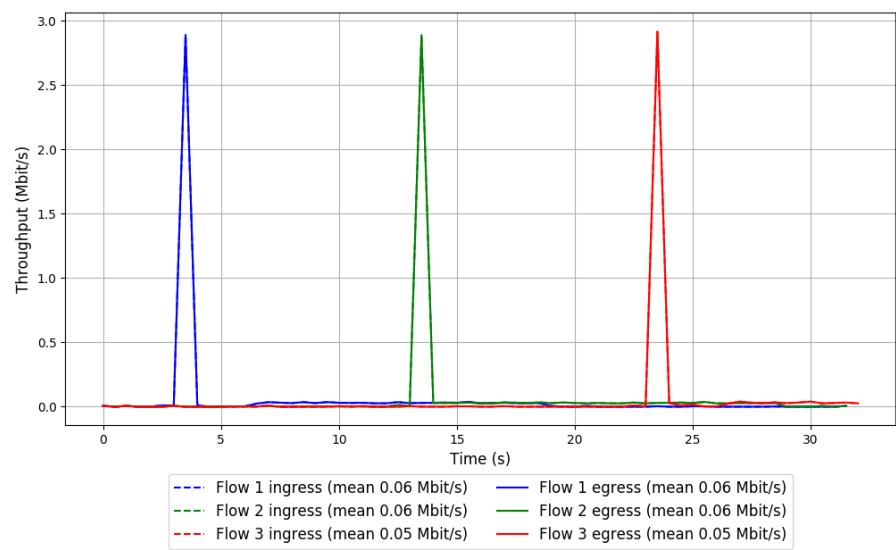


Run 2: Statistics of WebRTC media

Start at: 2018-04-17 16:43:24
End at: 2018-04-17 16:43:54
Local clock offset: -5.341 ms
Remote clock offset: -6.794 ms

Below is generated by plot.py at 2018-04-17 20:02:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 3.480 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 4.070 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 2.195 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 3.459 ms
Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link

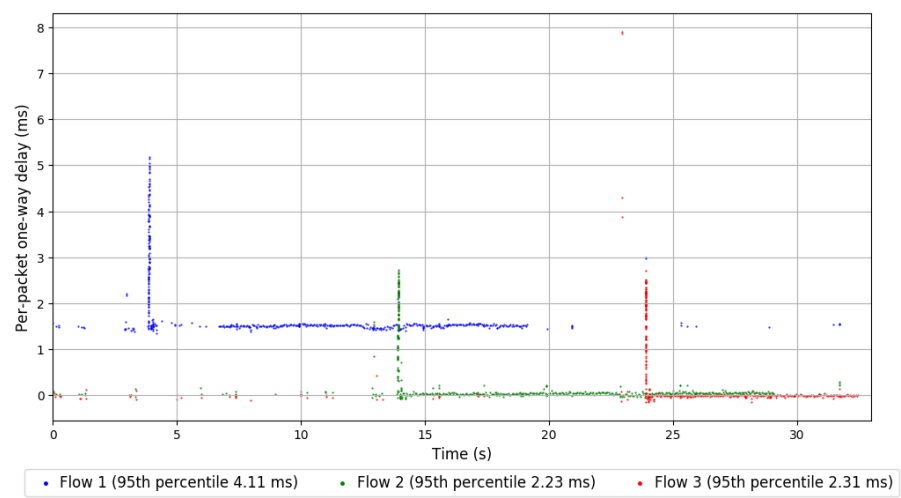
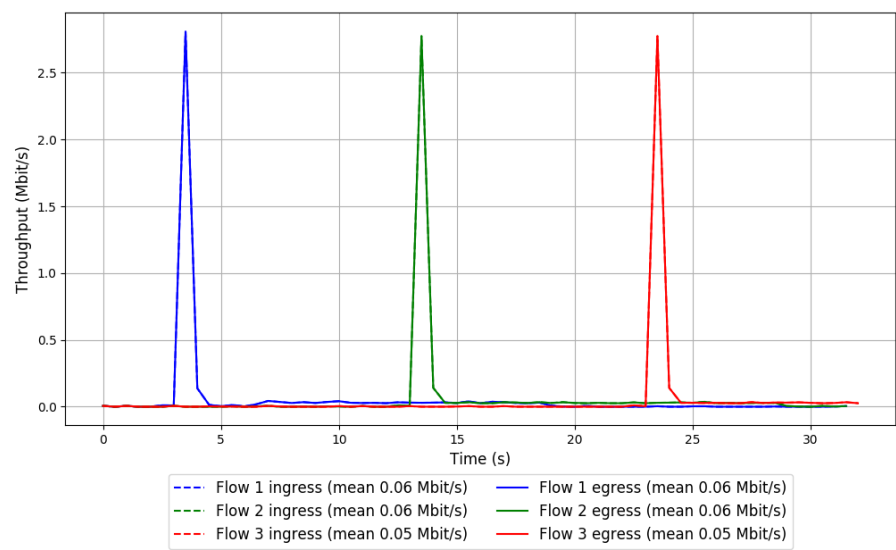


Run 3: Statistics of WebRTC media

Start at: 2018-04-17 17:02:37
End at: 2018-04-17 17:03:07
Local clock offset: -5.318 ms
Remote clock offset: -6.818 ms

Below is generated by plot.py at 2018-04-17 20:02:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 3.000 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 4.112 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 2.232 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 2.308 ms
Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link

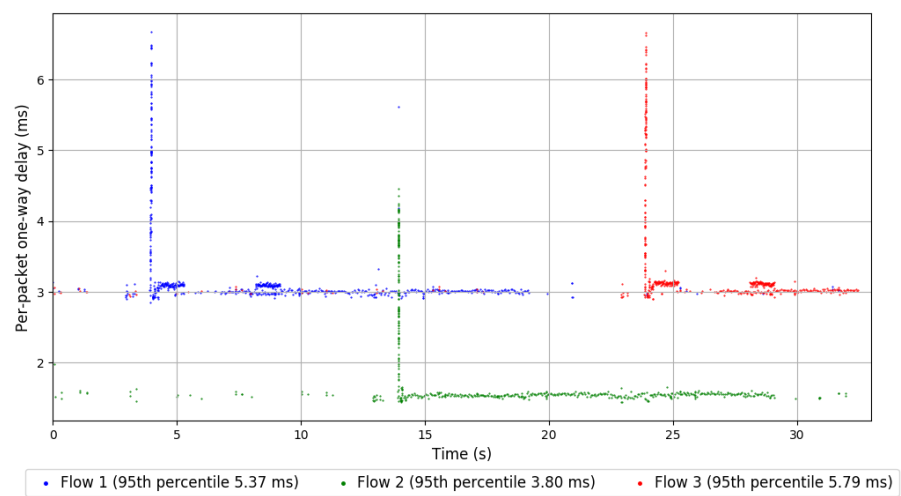
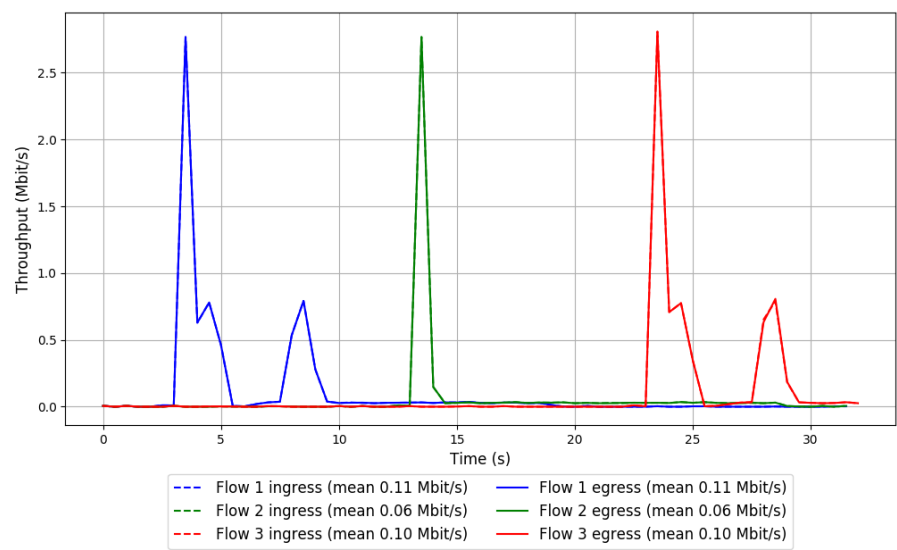


Run 4: Statistics of WebRTC media

Start at: 2018-04-17 17:21:47
End at: 2018-04-17 17:22:17
Local clock offset: -6.851 ms
Remote clock offset: -6.981 ms

Below is generated by plot.py at 2018-04-17 20:02:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.27 Mbit/s
95th percentile per-packet one-way delay: 5.292 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.11 Mbit/s
95th percentile per-packet one-way delay: 5.373 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 3.800 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.10 Mbit/s
95th percentile per-packet one-way delay: 5.785 ms
Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link

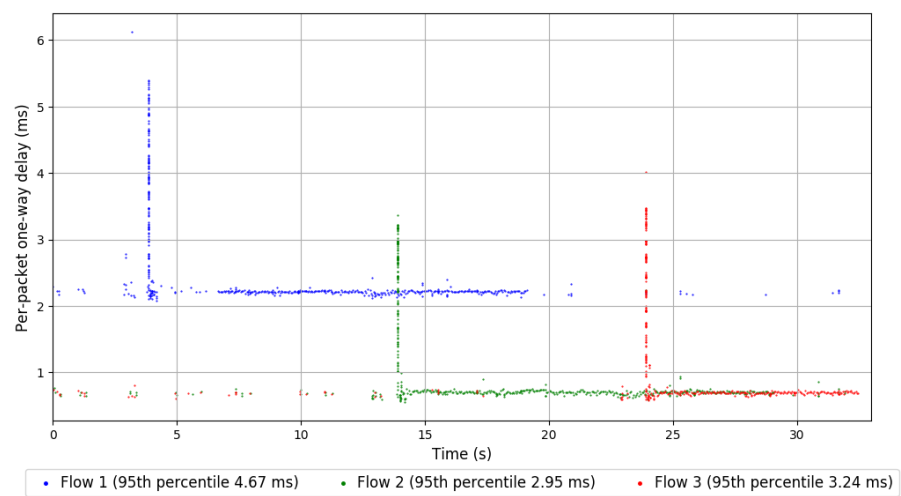
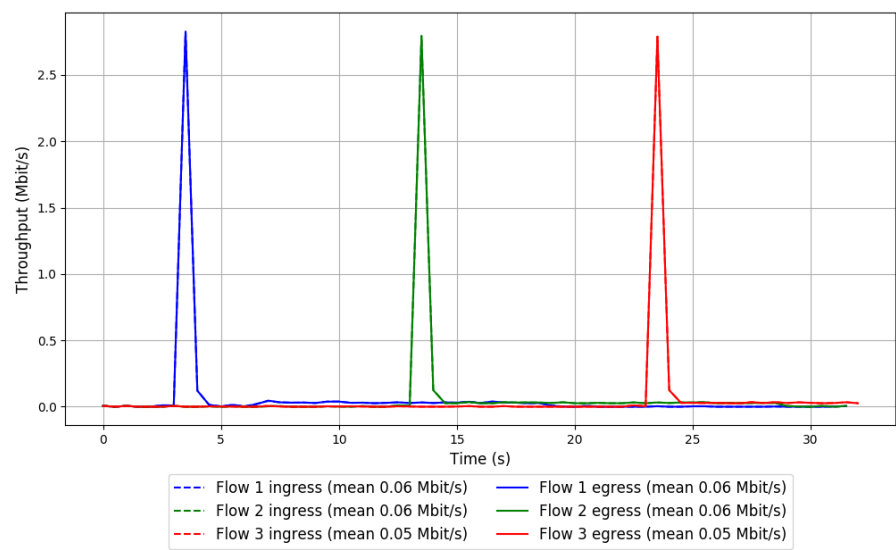


Run 5: Statistics of WebRTC media

Start at: 2018-04-17 17:40:58
End at: 2018-04-17 17:41:28
Local clock offset: -5.996 ms
Remote clock offset: -6.981 ms

Below is generated by plot.py at 2018-04-17 20:02:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 3.678 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 4.669 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 2.953 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 3.237 ms
Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

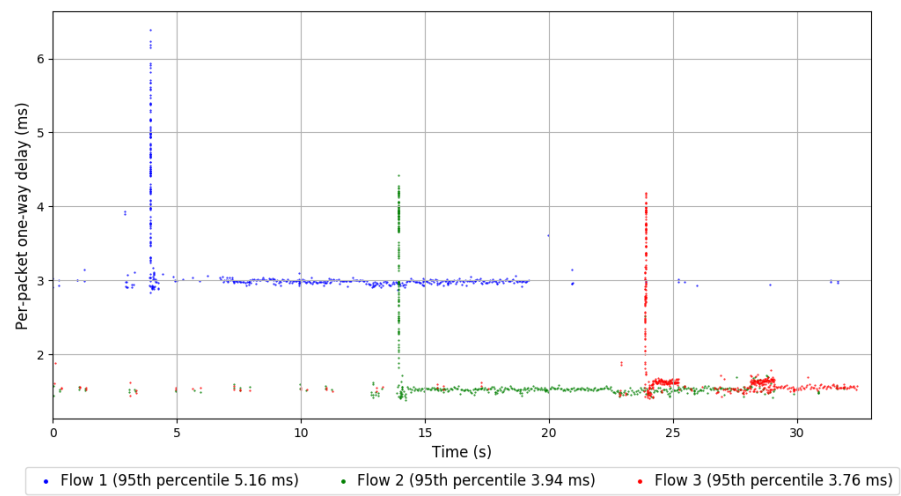
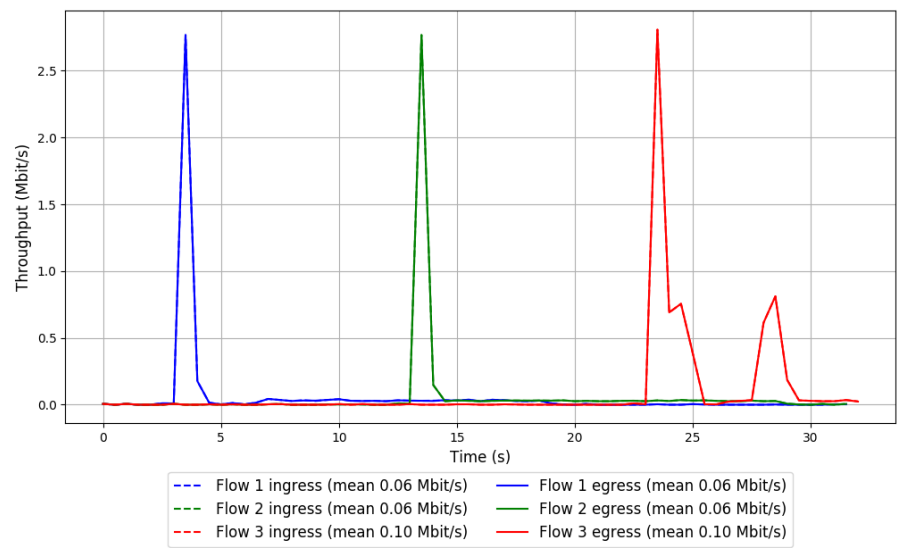


Run 6: Statistics of WebRTC media

Start at: 2018-04-17 18:00:09
End at: 2018-04-17 18:00:39
Local clock offset: -6.606 ms
Remote clock offset: -6.855 ms

Below is generated by plot.py at 2018-04-17 20:02:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 4.259 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 5.161 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 3.943 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.10 Mbit/s
95th percentile per-packet one-way delay: 3.760 ms
Loss rate: 0.02%

Run 6: Report of WebRTC media — Data Link

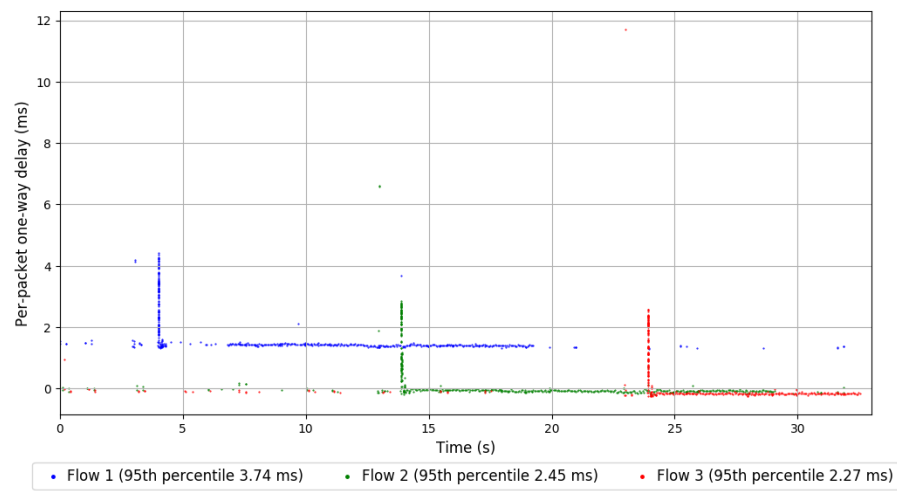
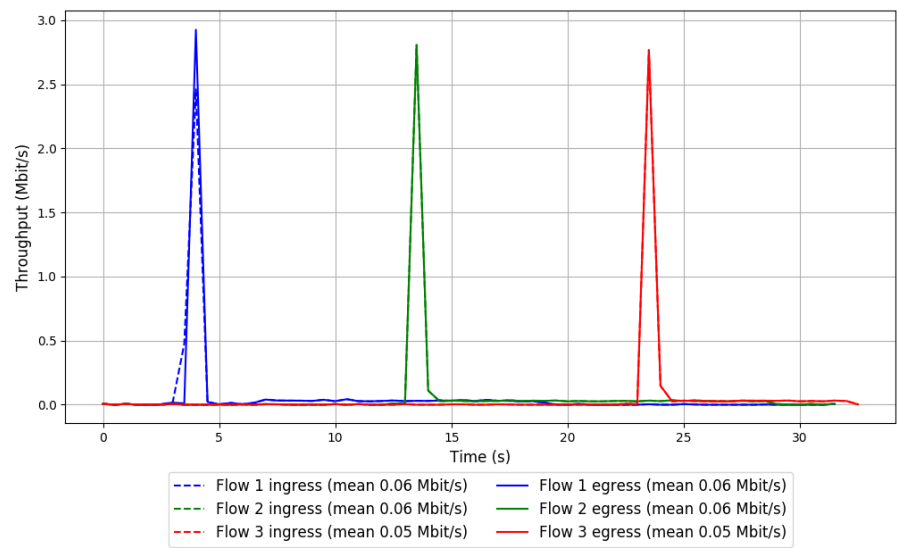


Run 7: Statistics of WebRTC media

Start at: 2018-04-17 18:19:22
End at: 2018-04-17 18:19:52
Local clock offset: -5.005 ms
Remote clock offset: -3.111 ms

Below is generated by plot.py at 2018-04-17 20:02:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 2.949 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 3.740 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 2.452 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 2.274 ms
Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link

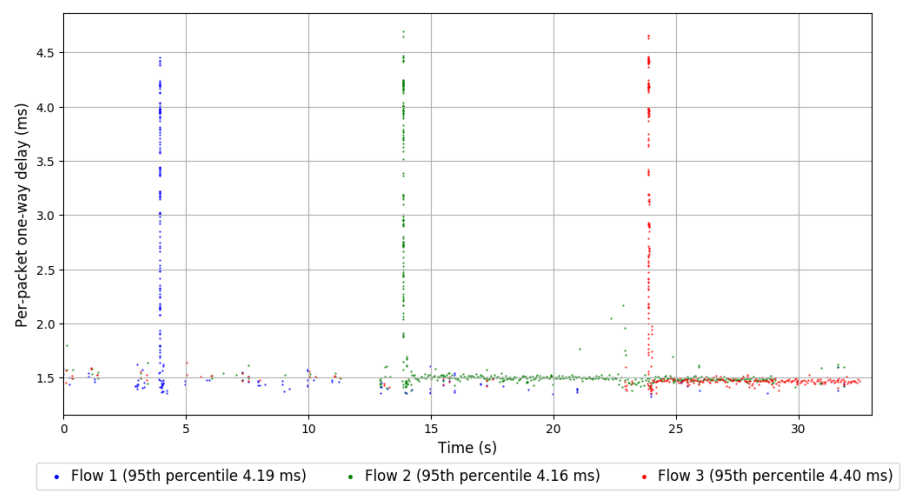
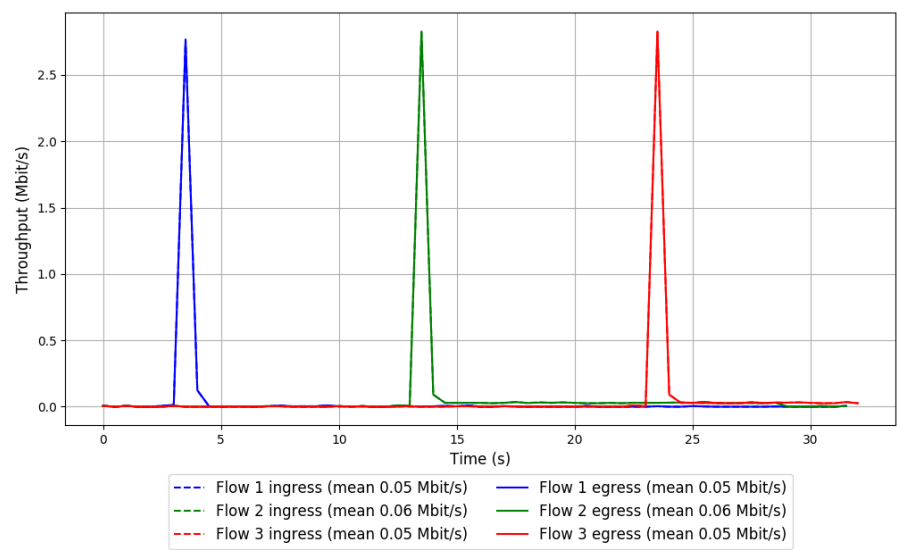


Run 8: Statistics of WebRTC media

Start at: 2018-04-17 18:38:32
End at: 2018-04-17 18:39:02
Local clock offset: -6.681 ms
Remote clock offset: -0.151 ms

Below is generated by plot.py at 2018-04-17 20:02:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 4.198 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 4.192 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 4.164 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 4.396 ms
Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-04-17 18:58:21

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

Local clock offset: -6.042 ms

Remote clock offset: 1.787 ms

Below is generated by plot.py at 2018-04-17 20:02:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 4.636 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.11 Mbit/s

95th percentile per-packet one-way delay: 4.709 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 4.807 ms

Loss rate: 0.00%

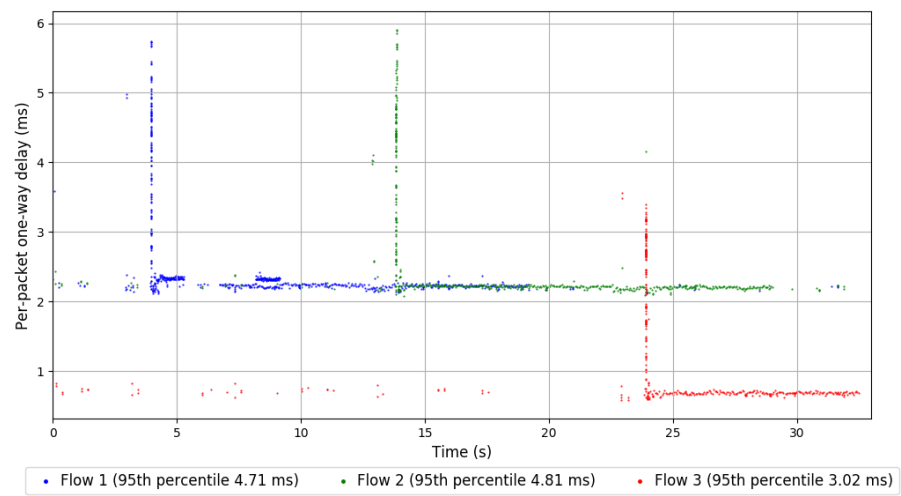
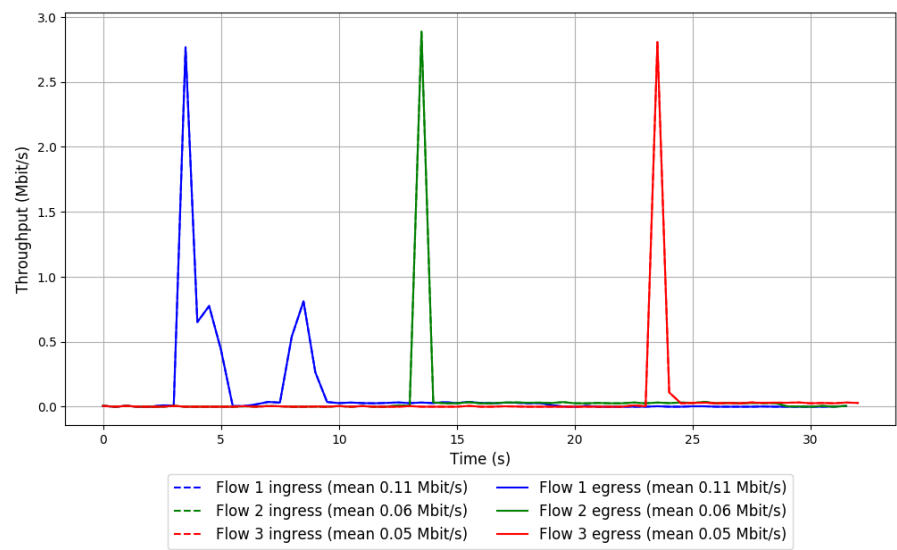
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 3.018 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-04-17 19:17:33

End at: 2018-04-17 19:18:03

Local clock offset: -5.946 ms

Remote clock offset: 3.48 ms

Below is generated by plot.py at 2018-04-17 20:02:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.17 Mbit/s

95th percentile per-packet one-way delay: 3.937 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 2.922 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 4.713 ms

Loss rate: 0.00%

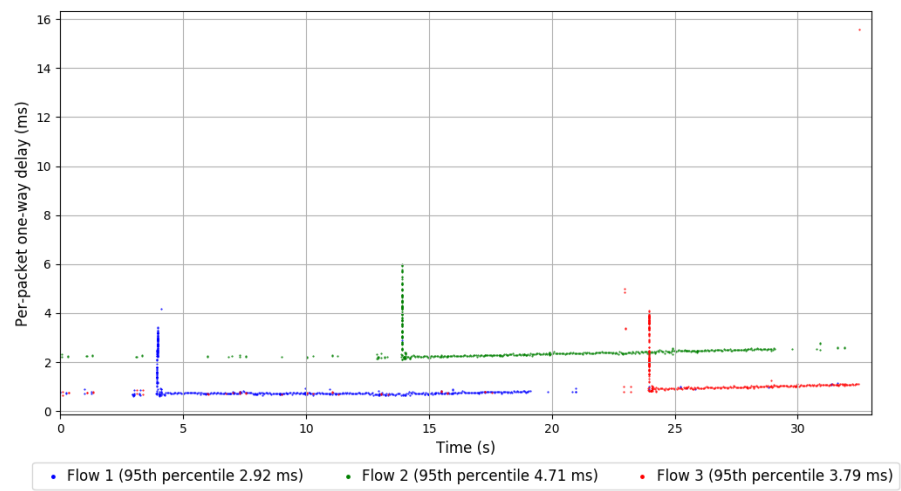
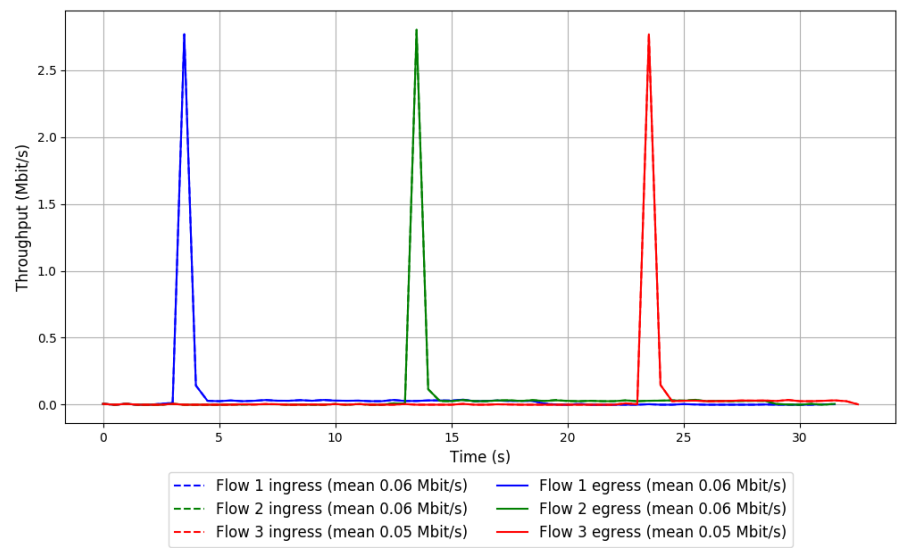
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 3.795 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

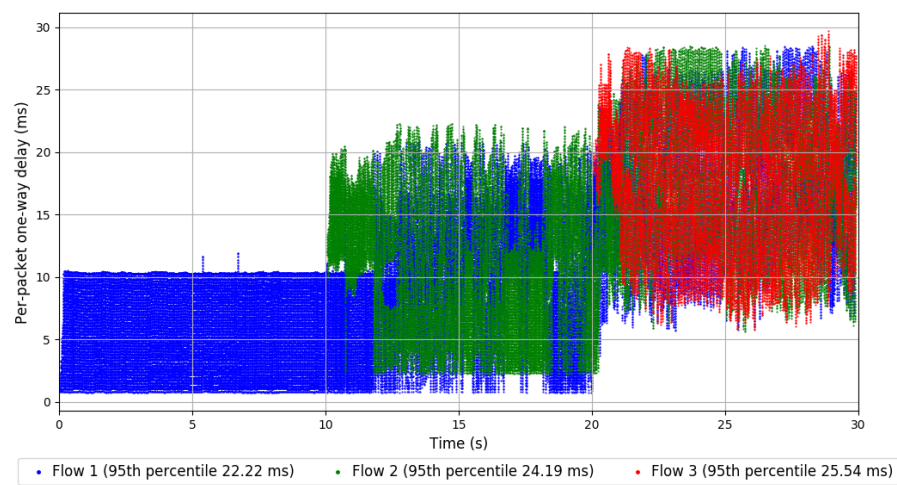
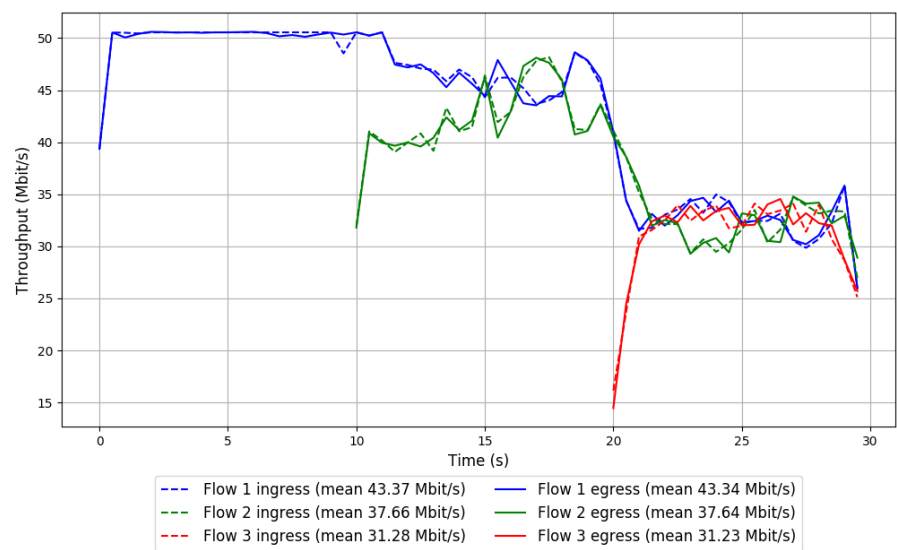


Run 1: Statistics of Sprout

Start at: 2018-04-17 16:27:32
End at: 2018-04-17 16:28:02
Local clock offset: -6.133 ms
Remote clock offset: -7.329 ms

Below is generated by plot.py at 2018-04-17 20:02:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 78.65 Mbit/s
95th percentile per-packet one-way delay: 23.907 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 43.34 Mbit/s
95th percentile per-packet one-way delay: 22.222 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 37.64 Mbit/s
95th percentile per-packet one-way delay: 24.186 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 31.23 Mbit/s
95th percentile per-packet one-way delay: 25.540 ms
Loss rate: 0.01%

Run 1: Report of Sprout — Data Link

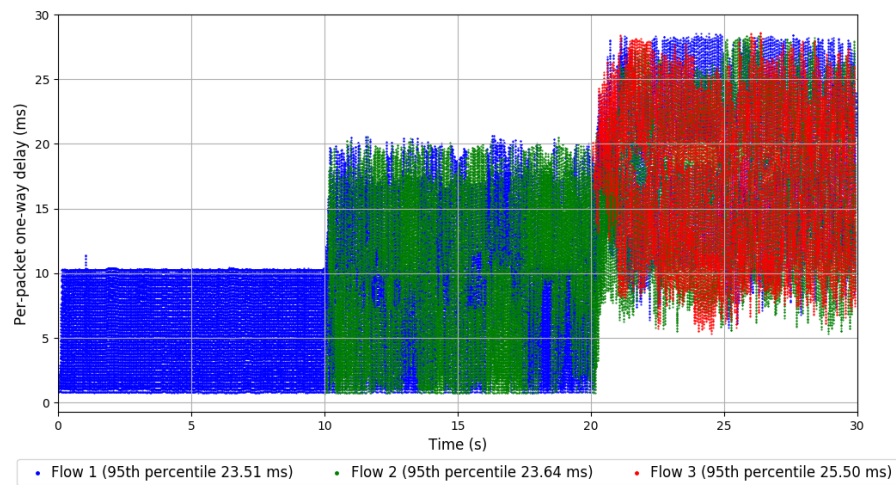
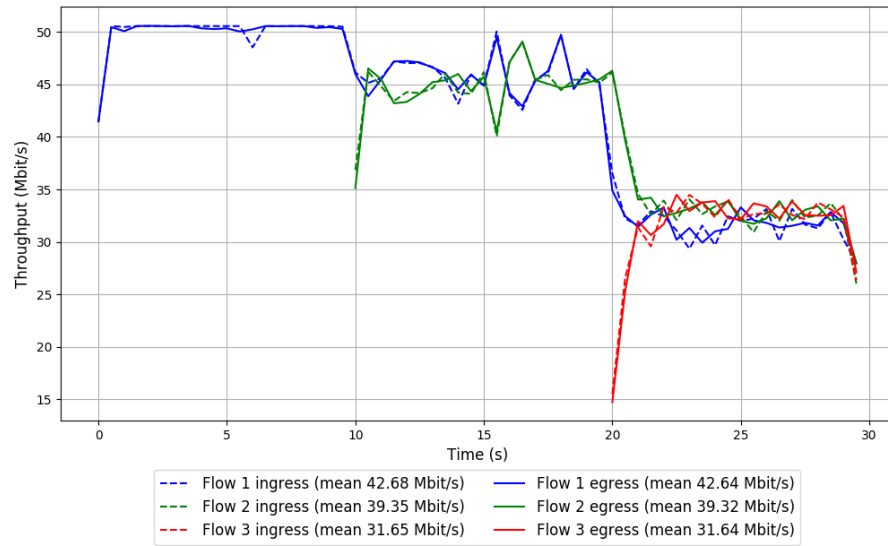


Run 2: Statistics of Sprout

Start at: 2018-04-17 16:46:44
End at: 2018-04-17 16:47:14
Local clock offset: -6.12 ms
Remote clock offset: -6.853 ms

Below is generated by plot.py at 2018-04-17 20:02:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 79.24 Mbit/s
95th percentile per-packet one-way delay: 24.126 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 42.64 Mbit/s
95th percentile per-packet one-way delay: 23.513 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 39.32 Mbit/s
95th percentile per-packet one-way delay: 23.635 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 31.64 Mbit/s
95th percentile per-packet one-way delay: 25.496 ms
Loss rate: 0.00%

Run 2: Report of Sprout — Data Link

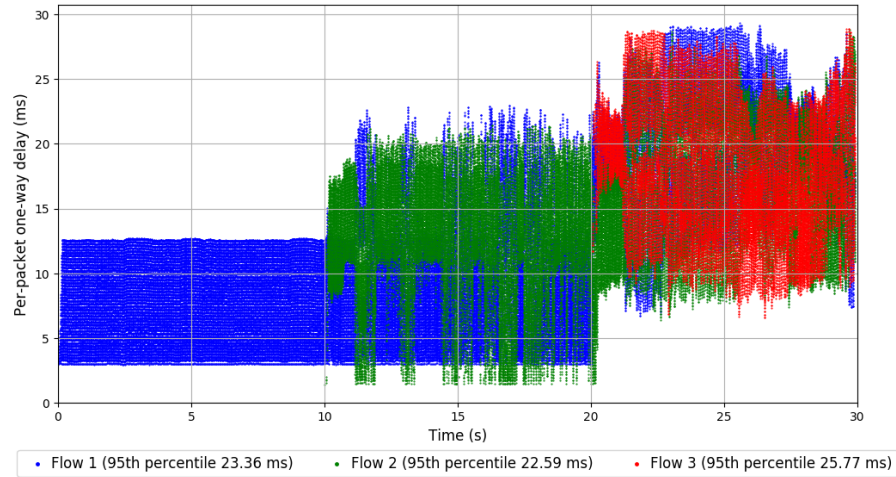
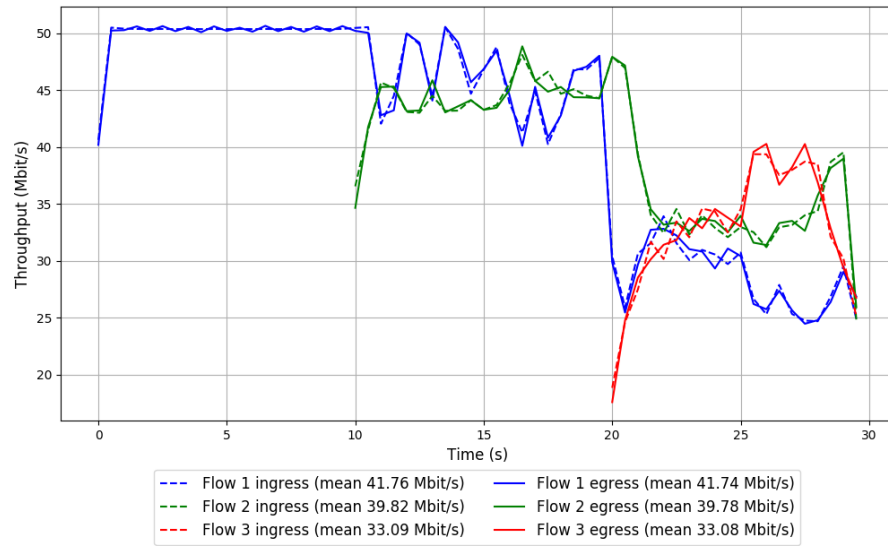


Run 3: Statistics of Sprout

Start at: 2018-04-17 17:05:57
End at: 2018-04-17 17:06:27
Local clock offset: -6.814 ms
Remote clock offset: -6.905 ms

```
# Below is generated by plot.py at 2018-04-17 20:02:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 79.12 Mbit/s
95th percentile per-packet one-way delay: 23.665 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 41.74 Mbit/s
95th percentile per-packet one-way delay: 23.364 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 39.78 Mbit/s
95th percentile per-packet one-way delay: 22.590 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 33.08 Mbit/s
95th percentile per-packet one-way delay: 25.773 ms
Loss rate: 0.00%
```

Run 3: Report of Sprout — Data Link

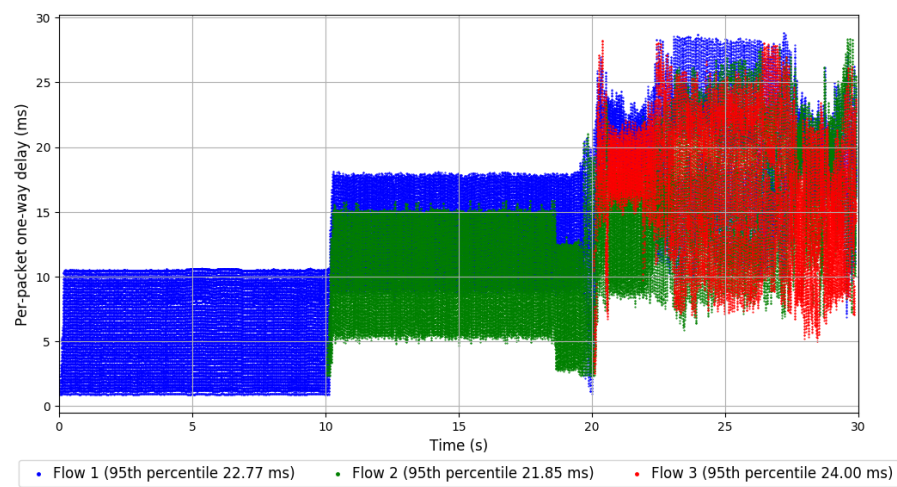
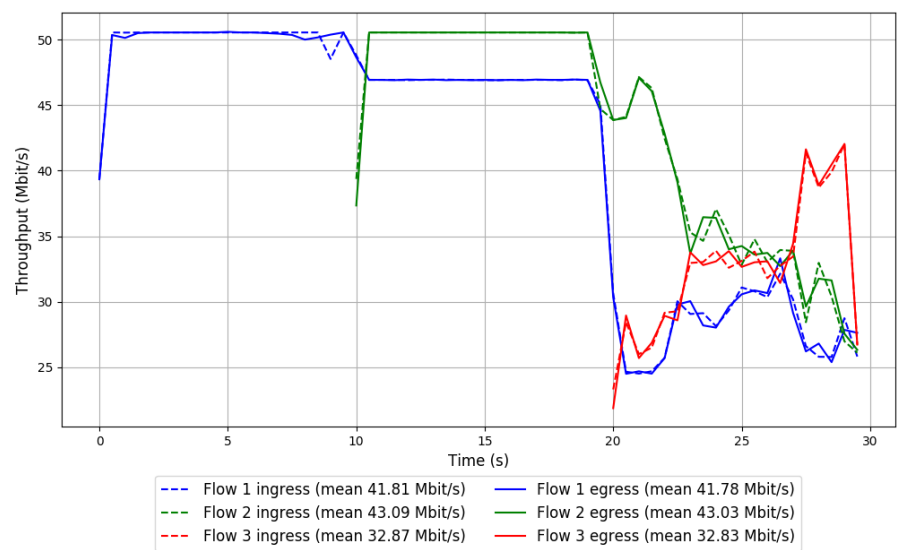


Run 4: Statistics of Sprout

Start at: 2018-04-17 17:25:06
End at: 2018-04-17 17:25:36
Local clock offset: -6.108 ms
Remote clock offset: -6.954 ms

```
# Below is generated by plot.py at 2018-04-17 20:02:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 81.25 Mbit/s
95th percentile per-packet one-way delay: 22.815 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 41.78 Mbit/s
95th percentile per-packet one-way delay: 22.771 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 43.03 Mbit/s
95th percentile per-packet one-way delay: 21.851 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 32.83 Mbit/s
95th percentile per-packet one-way delay: 24.004 ms
Loss rate: 0.00%
```

Run 4: Report of Sprout — Data Link

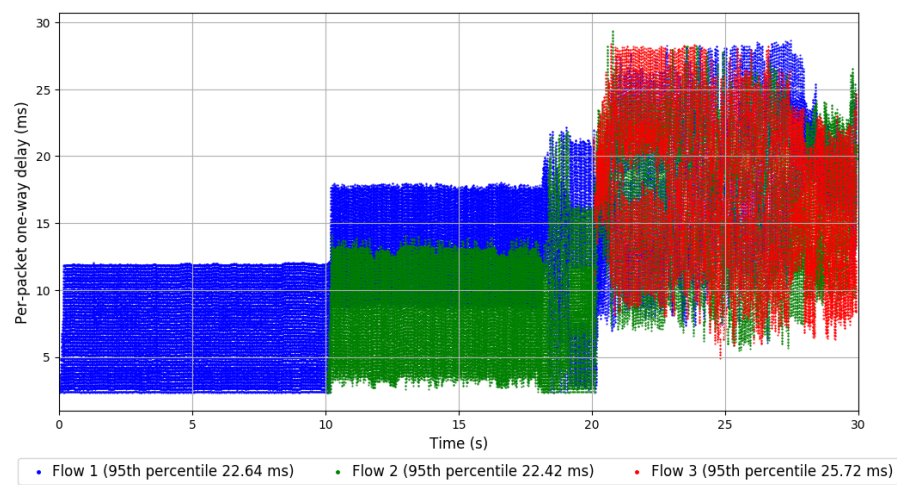
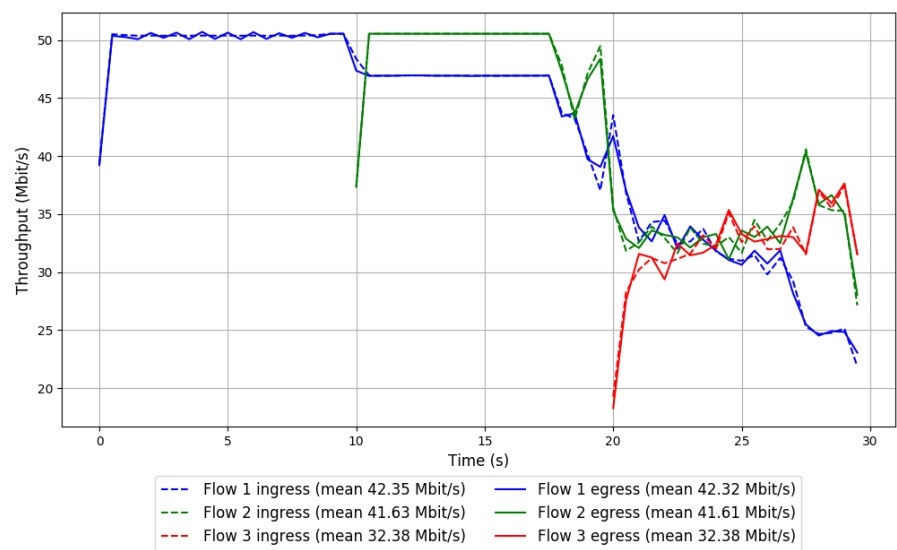


Run 5: Statistics of Sprout

Start at: 2018-04-17 17:44:17
End at: 2018-04-17 17:44:47
Local clock offset: -6.021 ms
Remote clock offset: -6.883 ms

```
# Below is generated by plot.py at 2018-04-17 20:03:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 80.68 Mbit/s
95th percentile per-packet one-way delay: 23.362 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 42.32 Mbit/s
95th percentile per-packet one-way delay: 22.640 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 41.61 Mbit/s
95th percentile per-packet one-way delay: 22.422 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 32.38 Mbit/s
95th percentile per-packet one-way delay: 25.724 ms
Loss rate: 0.00%
```

Run 5: Report of Sprout — Data Link

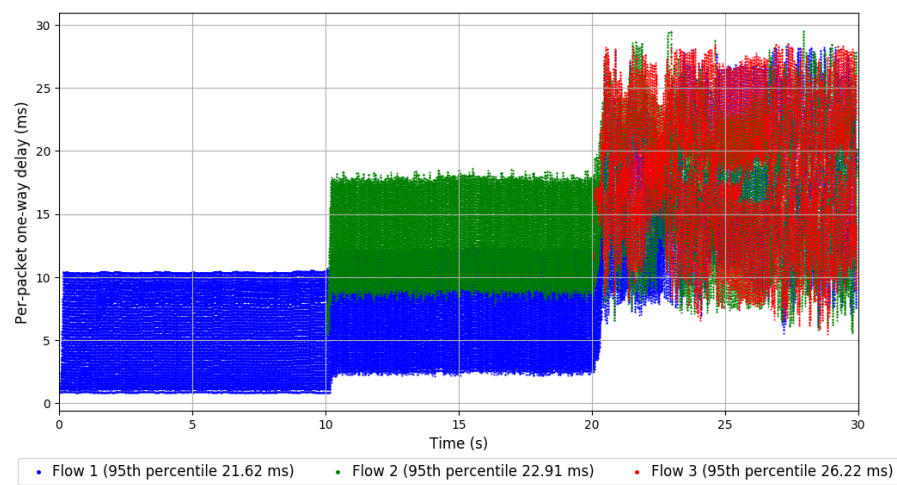
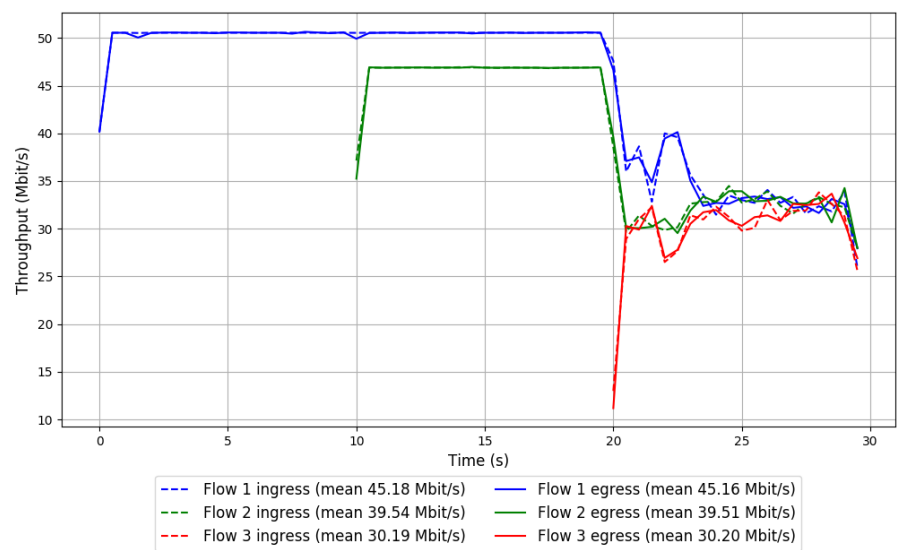


Run 6: Statistics of Sprout

Start at: 2018-04-17 18:03:29
End at: 2018-04-17 18:03:59
Local clock offset: -5.918 ms
Remote clock offset: -6.851 ms

```
# Below is generated by plot.py at 2018-04-17 20:03:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 81.39 Mbit/s
95th percentile per-packet one-way delay: 23.597 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 45.16 Mbit/s
95th percentile per-packet one-way delay: 21.617 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 39.51 Mbit/s
95th percentile per-packet one-way delay: 22.913 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 30.20 Mbit/s
95th percentile per-packet one-way delay: 26.224 ms
Loss rate: 0.00%
```

Run 6: Report of Sprout — Data Link

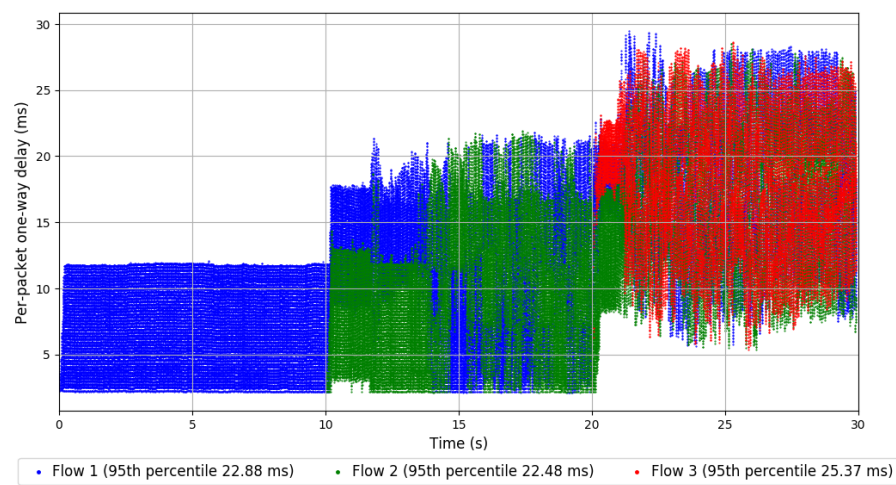
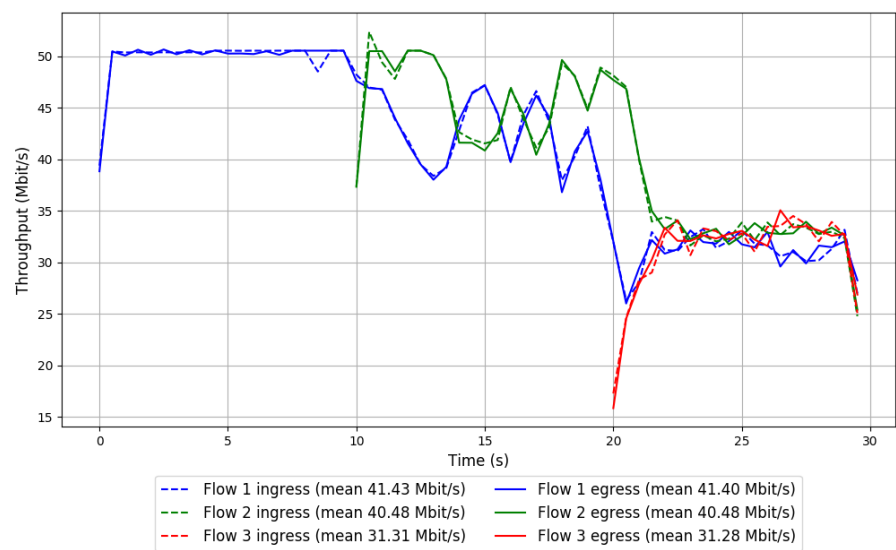


Run 7: Statistics of Sprout

Start at: 2018-04-17 18:22:41
End at: 2018-04-17 18:23:11
Local clock offset: -5.73 ms
Remote clock offset: -2.404 ms

Below is generated by plot.py at 2018-04-17 20:04:04
Datalink statistics
-- Total of 3 flows:
Average throughput: 78.62 Mbit/s
95th percentile per-packet one-way delay: 23.529 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 41.40 Mbit/s
95th percentile per-packet one-way delay: 22.880 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 40.48 Mbit/s
95th percentile per-packet one-way delay: 22.483 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 31.28 Mbit/s
95th percentile per-packet one-way delay: 25.373 ms
Loss rate: 0.00%

Run 7: Report of Sprout — Data Link

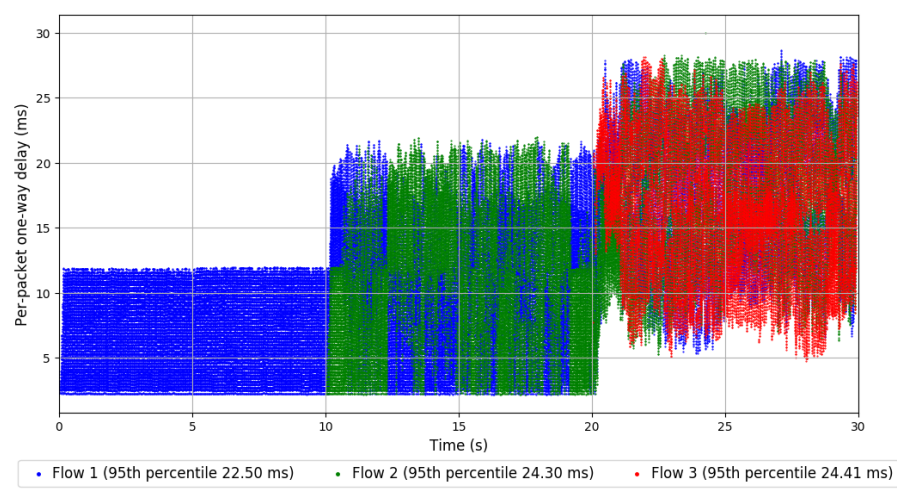
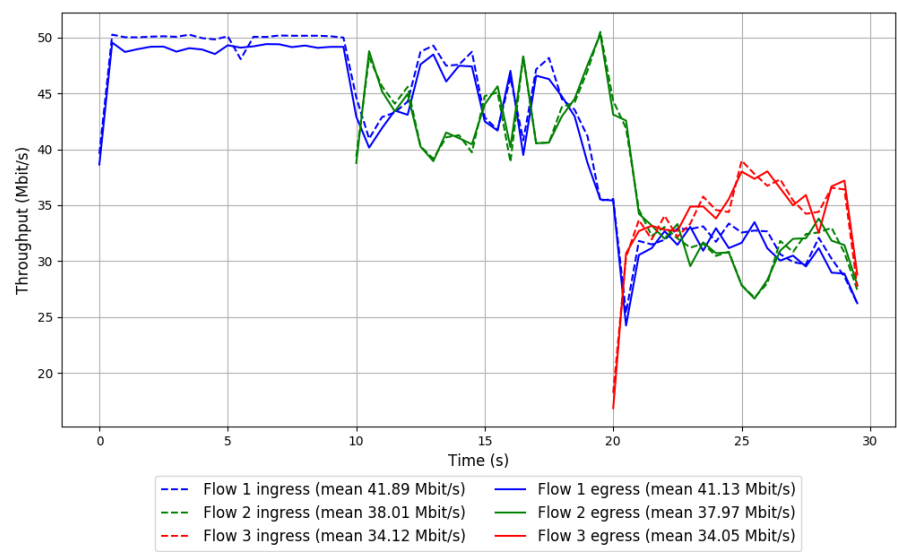


Run 8: Statistics of Sprout

Start at: 2018-04-17 18:41:51
End at: 2018-04-17 18:42:21
Local clock offset: -5.946 ms
Remote clock offset: 0.184 ms

Below is generated by plot.py at 2018-04-17 20:04:04
Datalink statistics
-- Total of 3 flows:
Average throughput: 77.65 Mbit/s
95th percentile per-packet one-way delay: 23.660 ms
Loss rate: 0.92%
-- Flow 1:
Average throughput: 41.13 Mbit/s
95th percentile per-packet one-way delay: 22.499 ms
Loss rate: 1.73%
-- Flow 2:
Average throughput: 37.97 Mbit/s
95th percentile per-packet one-way delay: 24.295 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 34.05 Mbit/s
95th percentile per-packet one-way delay: 24.410 ms
Loss rate: 0.00%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-04-17 19:01:40

End at: 2018-04-17 19:02:10

Local clock offset: -6.07 ms

Remote clock offset: 2.086 ms

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 79.00 Mbit/s

95th percentile per-packet one-way delay: 23.552 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 42.75 Mbit/s

95th percentile per-packet one-way delay: 22.843 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 36.89 Mbit/s

95th percentile per-packet one-way delay: 24.151 ms

Loss rate: 0.00%

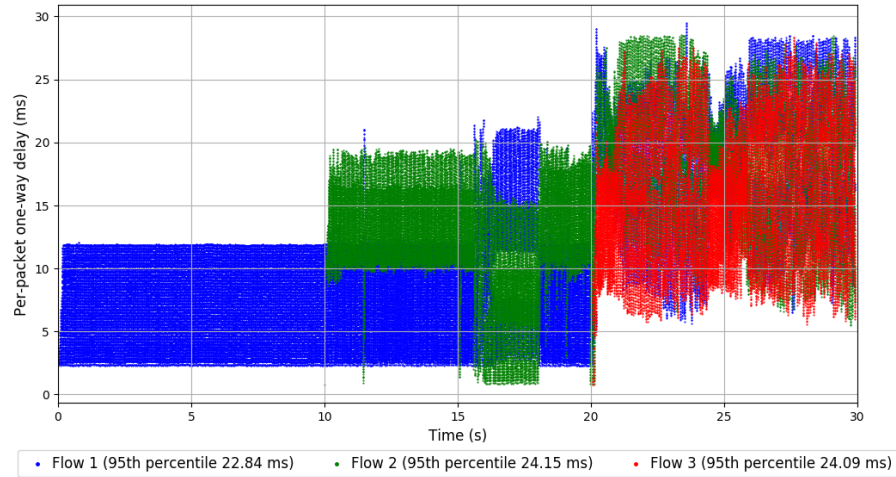
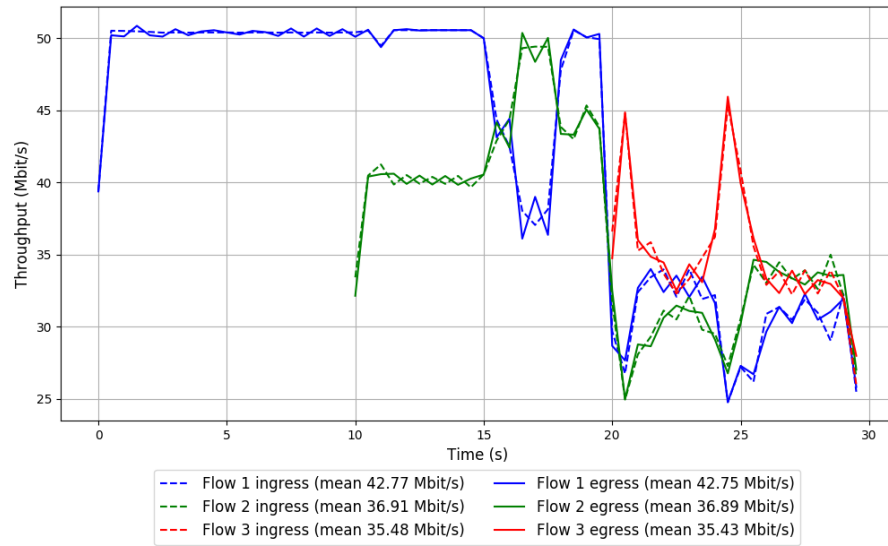
-- Flow 3:

Average throughput: 35.43 Mbit/s

95th percentile per-packet one-way delay: 24.089 ms

Loss rate: 0.00%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-04-17 19:20:52

End at: 2018-04-17 19:21:22

Local clock offset: -5.92 ms

Remote clock offset: 0.266 ms

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 79.24 Mbit/s

95th percentile per-packet one-way delay: 23.967 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 42.90 Mbit/s

95th percentile per-packet one-way delay: 23.295 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 39.24 Mbit/s

95th percentile per-packet one-way delay: 23.678 ms

Loss rate: 0.00%

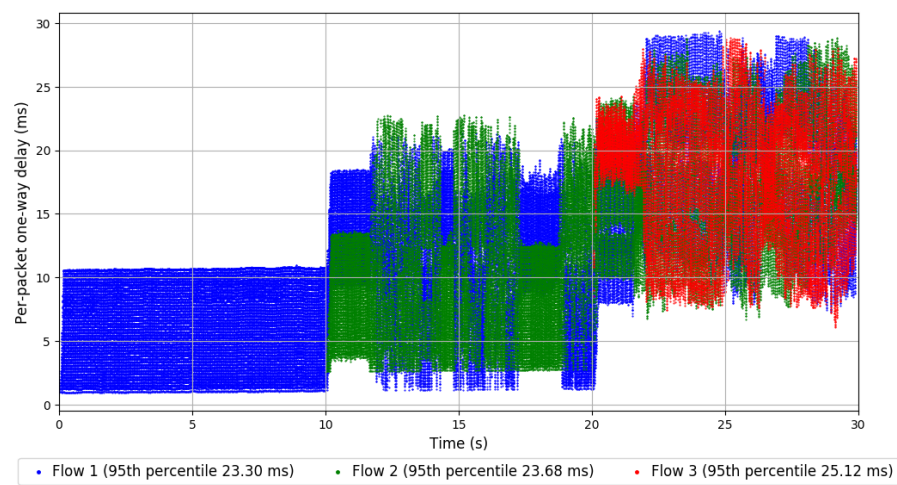
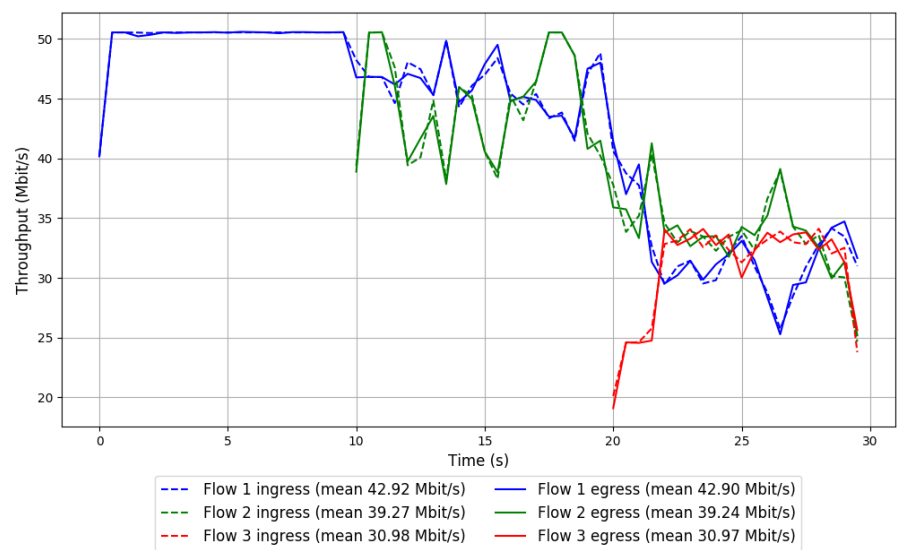
-- Flow 3:

Average throughput: 30.97 Mbit/s

95th percentile per-packet one-way delay: 25.122 ms

Loss rate: 0.00%

Run 10: Report of Sprout — Data Link

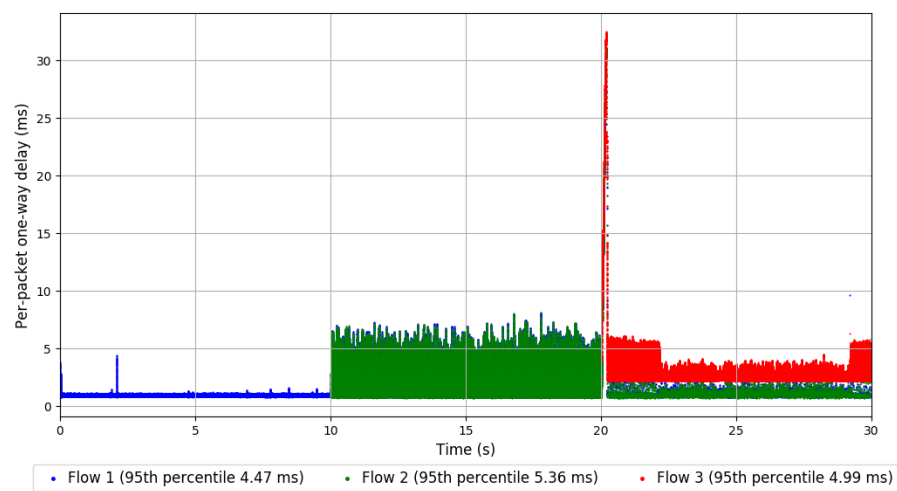
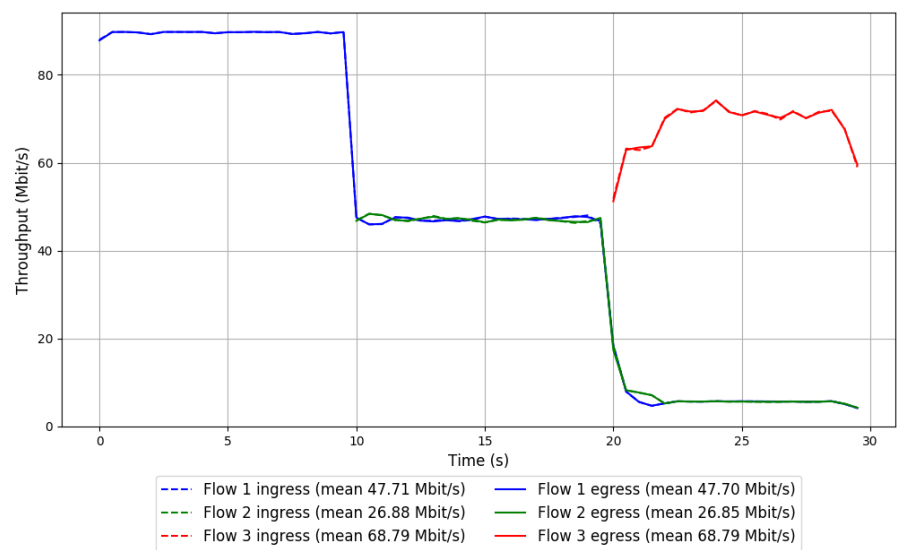


Run 1: Statistics of TaoVA-100x

Start at: 2018-04-17 16:32:04
End at: 2018-04-17 16:32:34
Local clock offset: -6.13 ms
Remote clock offset: -7.111 ms

Below is generated by plot.py at 2018-04-17 20:05:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 88.42 Mbit/s
95th percentile per-packet one-way delay: 4.882 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 47.70 Mbit/s
95th percentile per-packet one-way delay: 4.471 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 26.85 Mbit/s
95th percentile per-packet one-way delay: 5.356 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 68.79 Mbit/s
95th percentile per-packet one-way delay: 4.988 ms
Loss rate: 0.00%

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



Run 2: Statistics of TaoVA-100x

Start at: 2018-04-17 16:51:16

End at: 2018-04-17 16:51:46

Local clock offset: -6.913 ms

Remote clock offset: -6.78 ms

Below is generated by plot.py at 2018-04-17 20:05:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.99 Mbit/s

95th percentile per-packet one-way delay: 7.483 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 62.52 Mbit/s

95th percentile per-packet one-way delay: 7.616 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 43.26 Mbit/s

95th percentile per-packet one-way delay: 6.479 ms

Loss rate: 0.16%

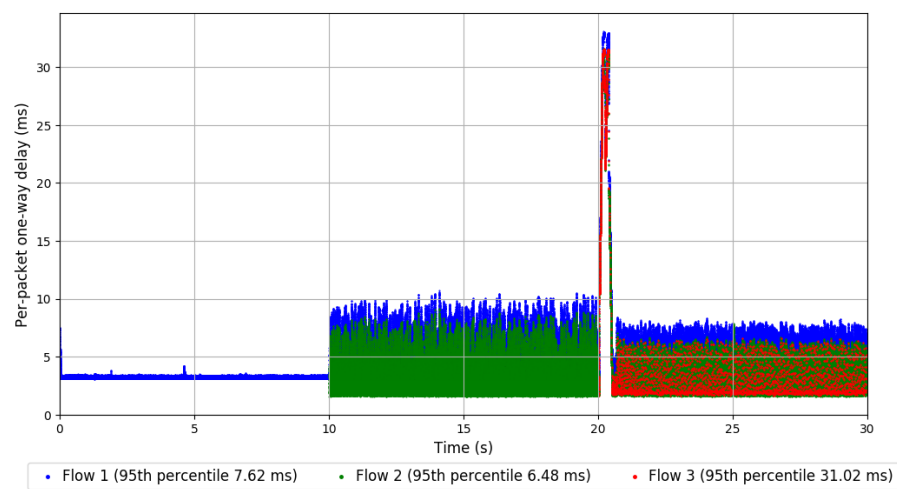
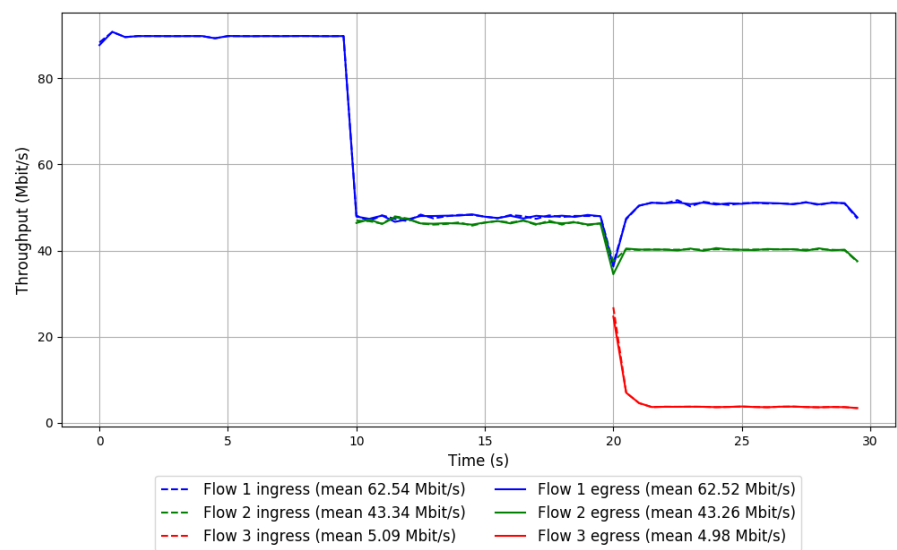
-- Flow 3:

Average throughput: 4.98 Mbit/s

95th percentile per-packet one-way delay: 31.019 ms

Loss rate: 2.09%

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

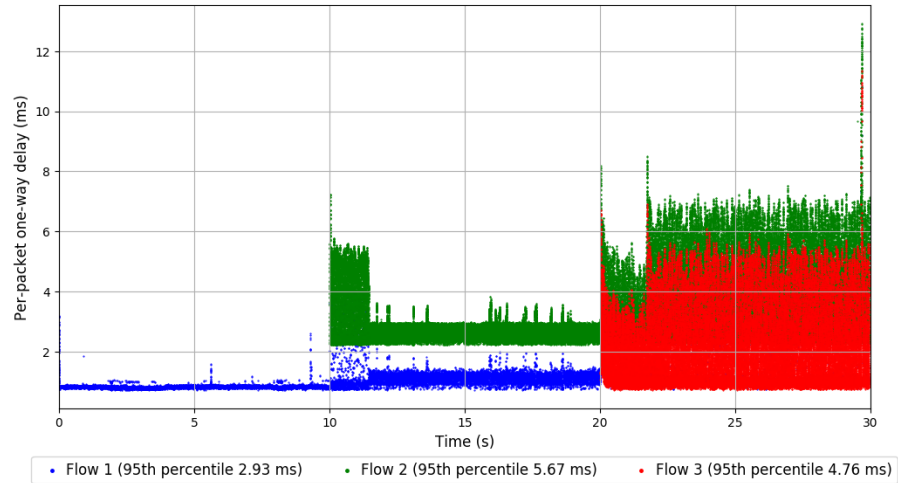
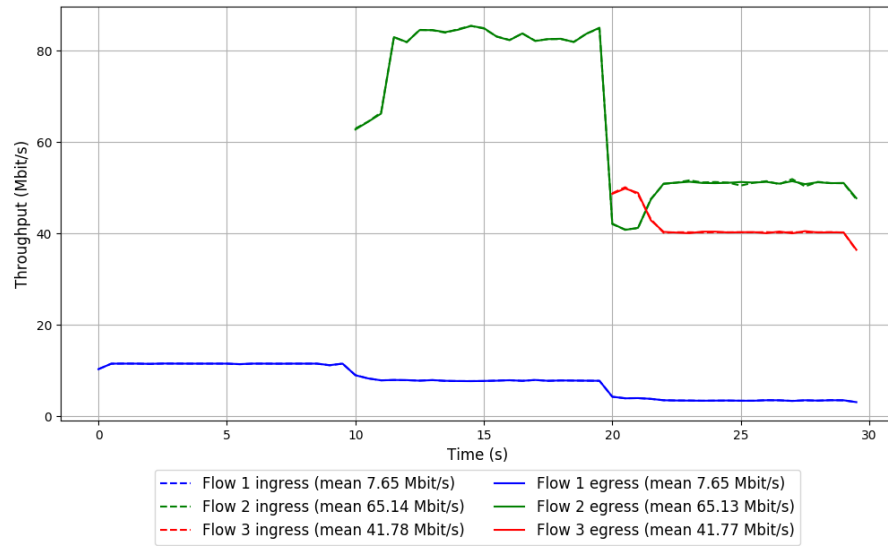


Run 3: Statistics of TaoVA-100x

Start at: 2018-04-17 17:10:29
End at: 2018-04-17 17:10:59
Local clock offset: -6.032 ms
Remote clock offset: -6.875 ms

Below is generated by plot.py at 2018-04-17 20:05:25
Datalink statistics
-- Total of 3 flows:
Average throughput: 64.89 Mbit/s
95th percentile per-packet one-way delay: 5.313 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.65 Mbit/s
95th percentile per-packet one-way delay: 2.927 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 65.13 Mbit/s
95th percentile per-packet one-way delay: 5.673 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 41.77 Mbit/s
95th percentile per-packet one-way delay: 4.759 ms
Loss rate: 0.00%

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

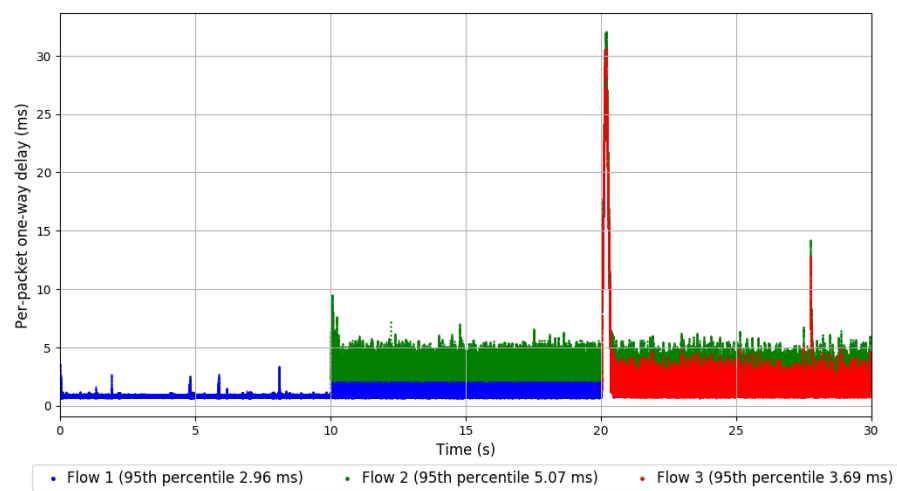
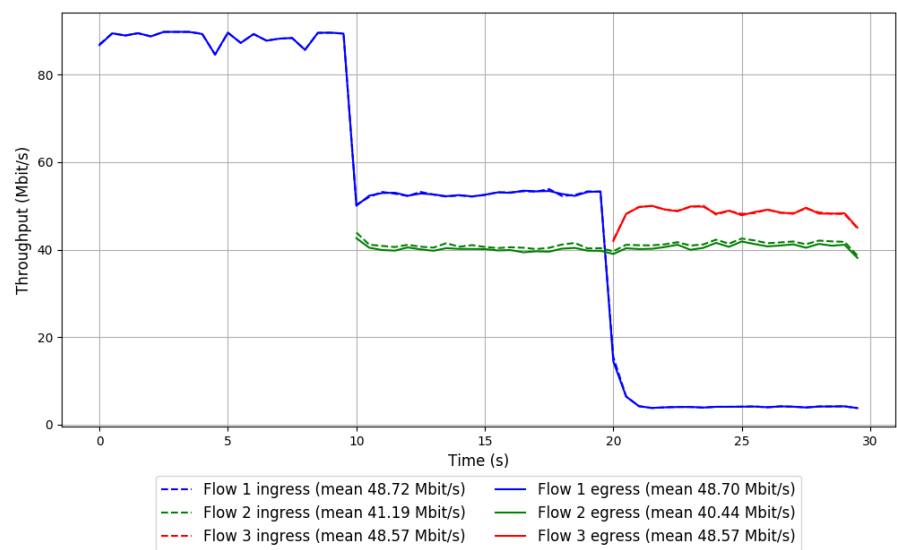


Run 4: Statistics of TaoVA-100x

Start at: 2018-04-17 17:29:39
End at: 2018-04-17 17:30:09
Local clock offset: -5.963 ms
Remote clock offset: -7.063 ms

Below is generated by plot.py at 2018-04-17 20:05:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 91.75 Mbit/s
95th percentile per-packet one-way delay: 4.366 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 48.70 Mbit/s
95th percentile per-packet one-way delay: 2.958 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 40.44 Mbit/s
95th percentile per-packet one-way delay: 5.071 ms
Loss rate: 1.84%
-- Flow 3:
Average throughput: 48.57 Mbit/s
95th percentile per-packet one-way delay: 3.687 ms
Loss rate: 0.01%

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

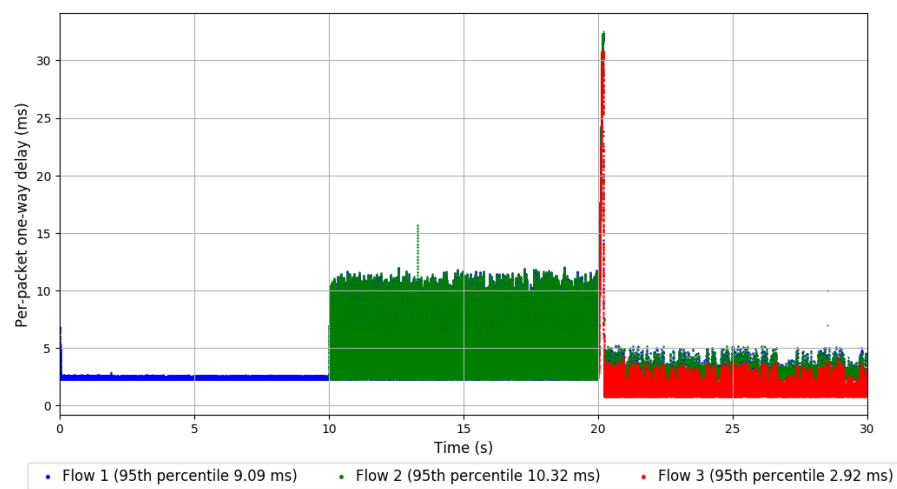
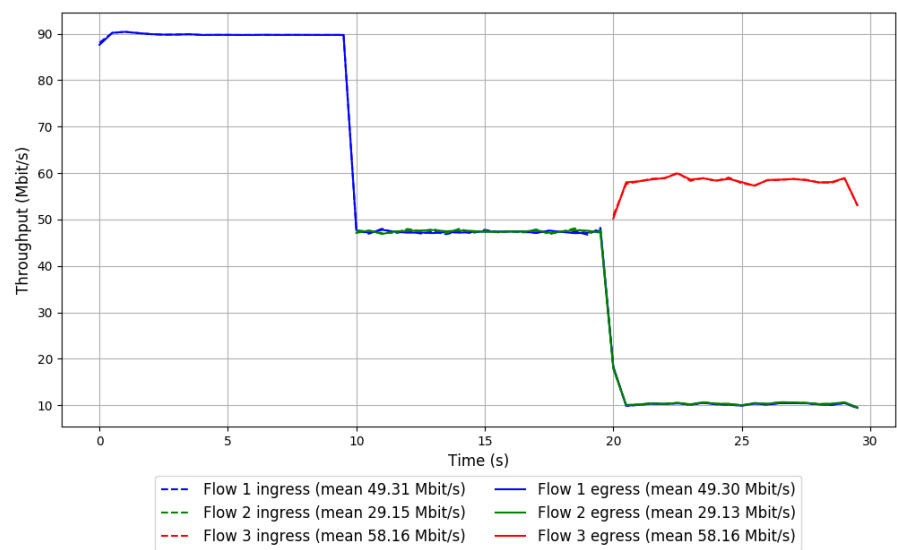


Run 5: Statistics of TaoVA-100x

Start at: 2018-04-17 17:48:50
End at: 2018-04-17 17:49:20
Local clock offset: -5.952 ms
Remote clock offset: -6.872 ms

Below is generated by plot.py at 2018-04-17 20:06:29
Datalink statistics
-- Total of 3 flows:
Average throughput: 87.99 Mbit/s
95th percentile per-packet one-way delay: 9.384 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 49.30 Mbit/s
95th percentile per-packet one-way delay: 9.090 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 29.13 Mbit/s
95th percentile per-packet one-way delay: 10.325 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 58.16 Mbit/s
95th percentile per-packet one-way delay: 2.917 ms
Loss rate: 0.01%

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

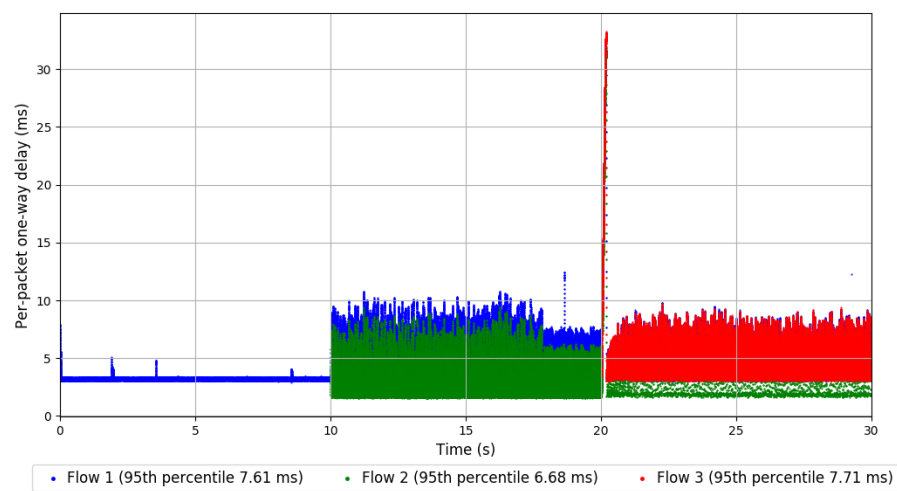
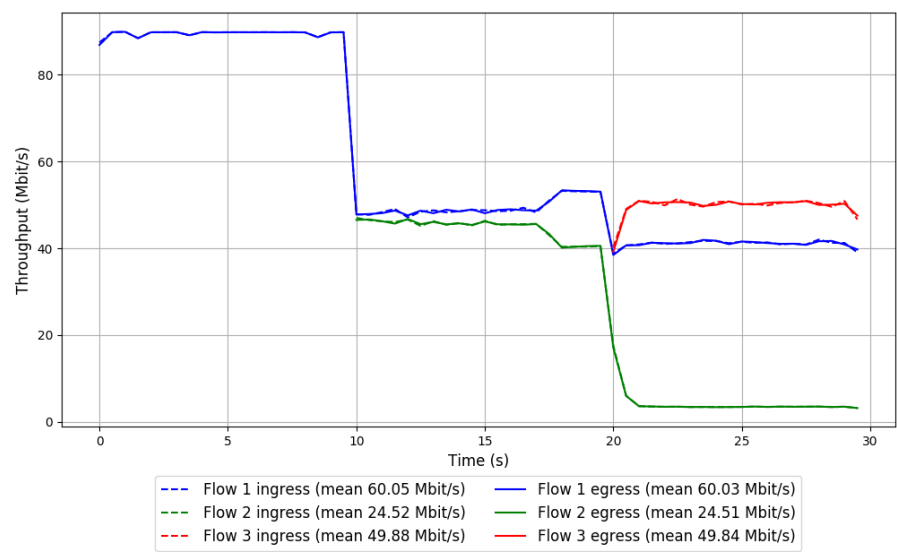


Run 6: Statistics of TaoVA-100x

Start at: 2018-04-17 18:08:01
End at: 2018-04-17 18:08:31
Local clock offset: -6.598 ms
Remote clock offset: -6.901 ms

Below is generated by plot.py at 2018-04-17 20:06:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 92.90 Mbit/s
95th percentile per-packet one-way delay: 7.531 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 60.03 Mbit/s
95th percentile per-packet one-way delay: 7.605 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 24.51 Mbit/s
95th percentile per-packet one-way delay: 6.682 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 49.84 Mbit/s
95th percentile per-packet one-way delay: 7.712 ms
Loss rate: 0.07%

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

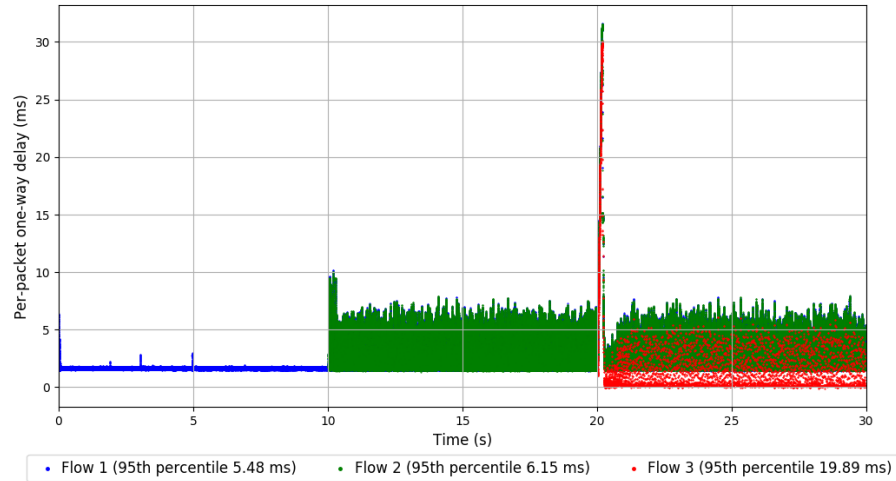
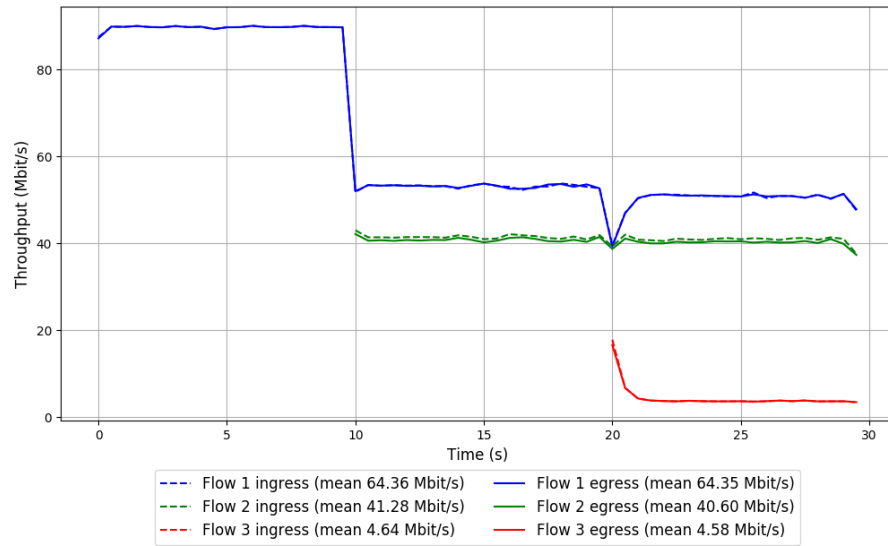


Run 7: Statistics of TaoVA-100x

Start at: 2018-04-17 18:27:12
End at: 2018-04-17 18:27:42
Local clock offset: -4.981 ms
Remote clock offset: -1.635 ms

Below is generated by plot.py at 2018-04-17 20:06:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 92.91 Mbit/s
95th percentile per-packet one-way delay: 5.761 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 64.35 Mbit/s
95th percentile per-packet one-way delay: 5.483 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 40.60 Mbit/s
95th percentile per-packet one-way delay: 6.146 ms
Loss rate: 1.62%
-- Flow 3:
Average throughput: 4.58 Mbit/s
95th percentile per-packet one-way delay: 19.890 ms
Loss rate: 1.34%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-04-17 18:46:24

End at: 2018-04-17 18:46:54

Local clock offset: -5.241 ms

Remote clock offset: 0.66 ms

Below is generated by plot.py at 2018-04-17 20:06:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.77 Mbit/s

95th percentile per-packet one-way delay: 3.669 ms

Loss rate: 1.06%

-- Flow 1:

Average throughput: 56.35 Mbit/s

95th percentile per-packet one-way delay: 3.921 ms

Loss rate: 1.68%

-- Flow 2:

Average throughput: 28.90 Mbit/s

95th percentile per-packet one-way delay: 2.726 ms

Loss rate: 0.09%

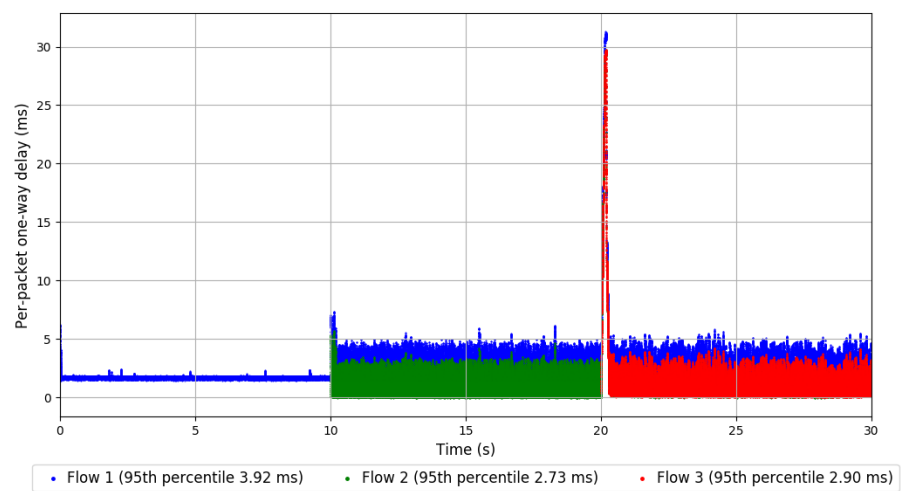
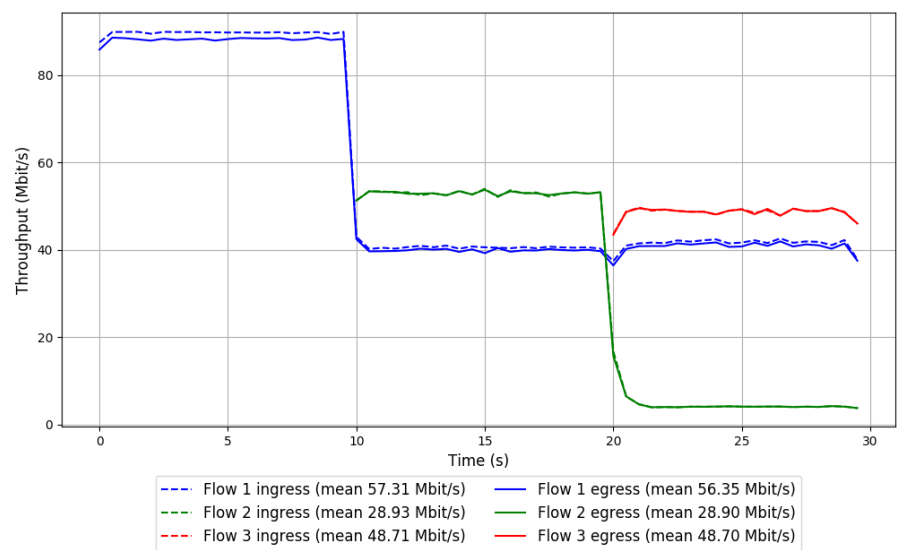
-- Flow 3:

Average throughput: 48.70 Mbit/s

95th percentile per-packet one-way delay: 2.895 ms

Loss rate: 0.02%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-04-17 19:06:12

End at: 2018-04-17 19:06:42

Local clock offset: -6.097 ms

Remote clock offset: 2.444 ms

Below is generated by plot.py at 2018-04-17 20:07:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.81 Mbit/s

95th percentile per-packet one-way delay: 4.471 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 48.47 Mbit/s

95th percentile per-packet one-way delay: 4.285 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 27.93 Mbit/s

95th percentile per-packet one-way delay: 5.300 ms

Loss rate: 0.10%

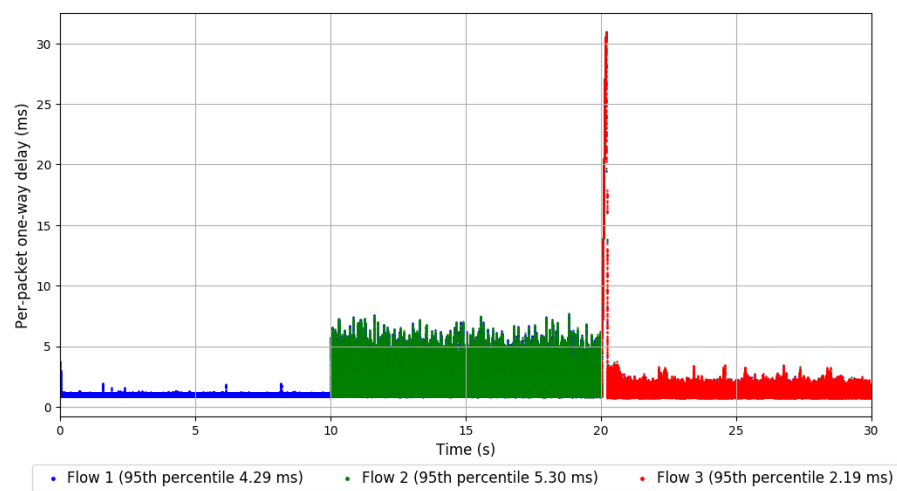
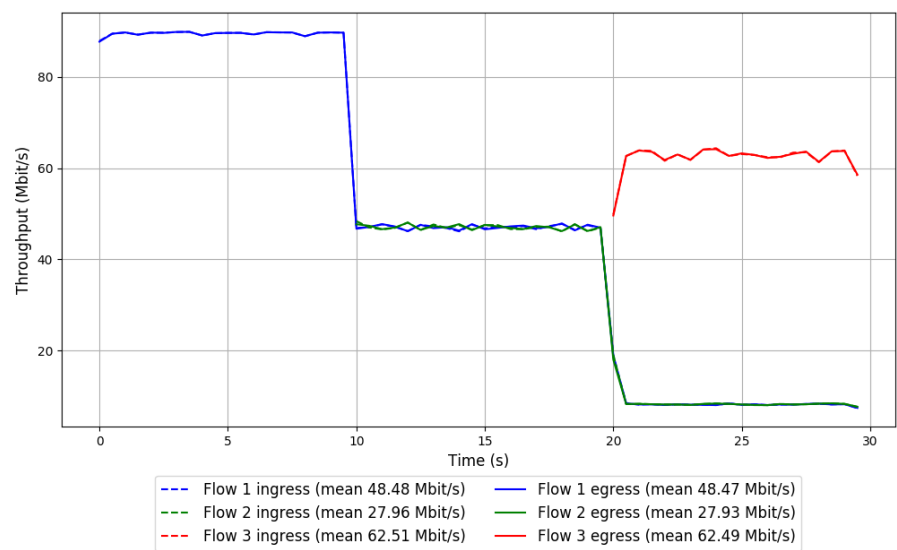
-- Flow 3:

Average throughput: 62.49 Mbit/s

95th percentile per-packet one-way delay: 2.185 ms

Loss rate: 0.01%

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

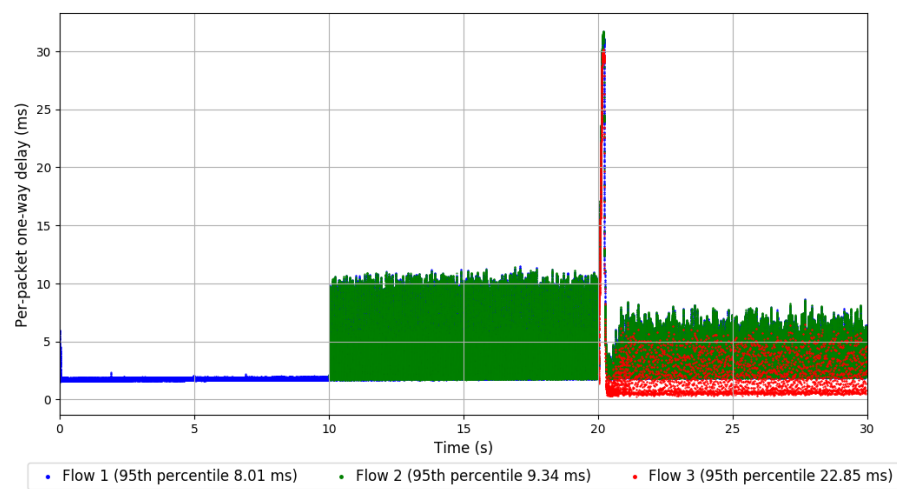
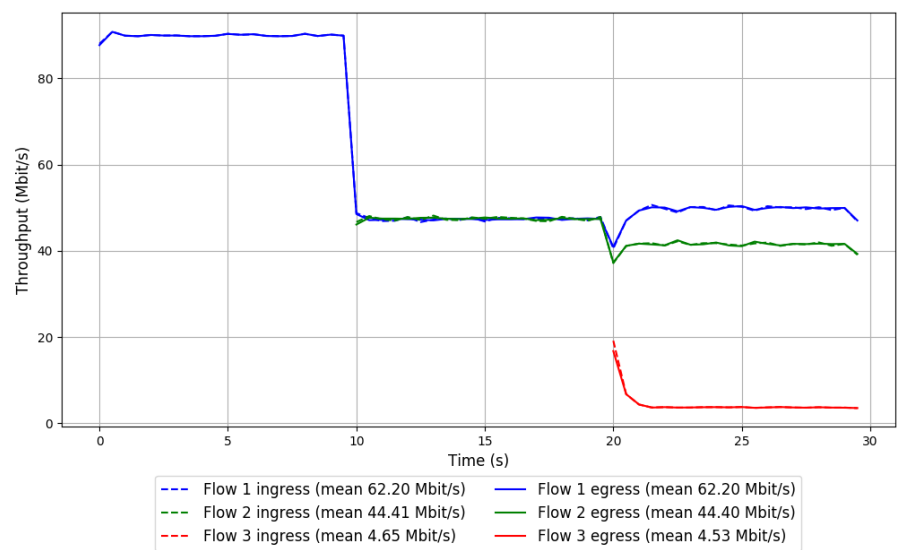


```
Run 10: Statistics of TaoVA-100x

Start at: 2018-04-17 19:25:25
End at: 2018-04-17 19:25:55
Local clock offset: -5.142 ms
Remote clock offset: -3.173 ms

# Below is generated by plot.py at 2018-04-17 20:08:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.27 Mbit/s
95th percentile per-packet one-way delay: 8.714 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 62.20 Mbit/s
95th percentile per-packet one-way delay: 8.013 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 44.40 Mbit/s
95th percentile per-packet one-way delay: 9.343 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 4.53 Mbit/s
95th percentile per-packet one-way delay: 22.851 ms
Loss rate: 2.56%
```

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

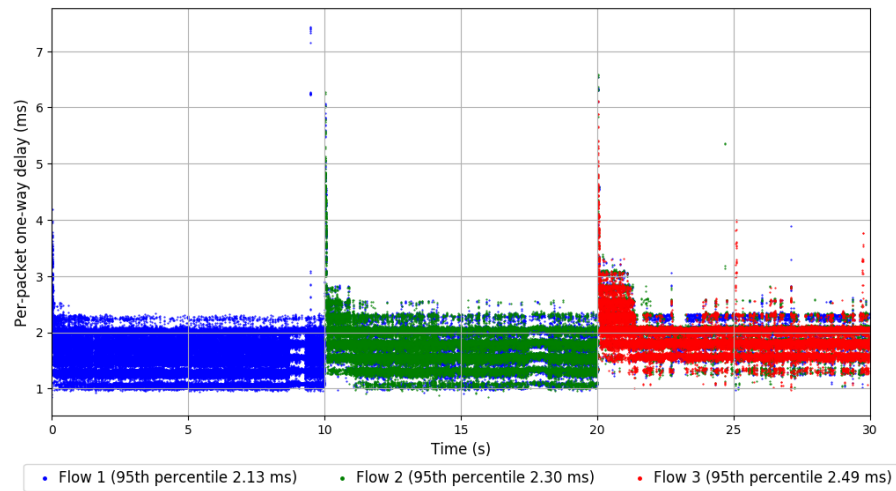
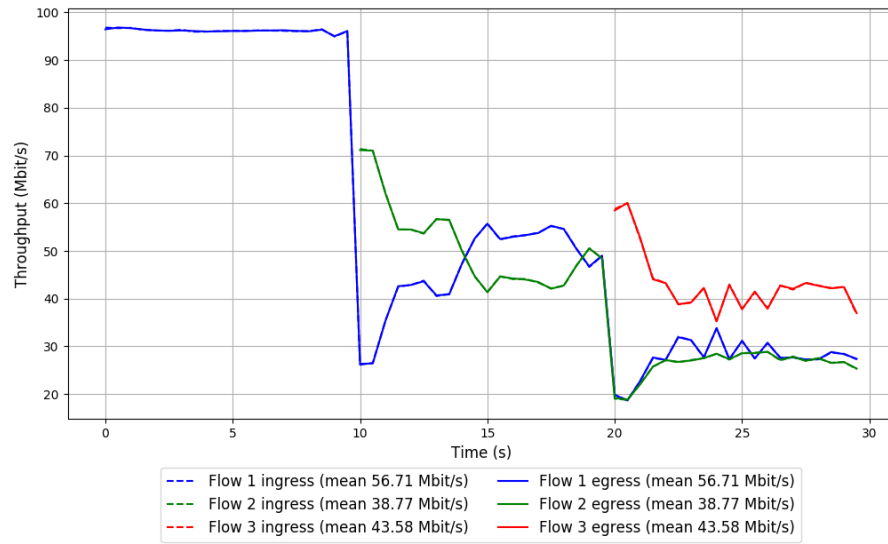


Run 1: Statistics of TCP Vegas

Start at: 2018-04-17 16:25:17
End at: 2018-04-17 16:25:47
Local clock offset: -6.227 ms
Remote clock offset: -7.333 ms

Below is generated by plot.py at 2018-04-17 20:08:02
Datalink statistics
-- Total of 3 flows:
Average throughput: 97.00 Mbit/s
95th percentile per-packet one-way delay: 2.273 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 56.71 Mbit/s
95th percentile per-packet one-way delay: 2.133 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 38.77 Mbit/s
95th percentile per-packet one-way delay: 2.301 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 43.58 Mbit/s
95th percentile per-packet one-way delay: 2.489 ms
Loss rate: 0.00%

Run 1: Report of TCP Vegas — Data Link

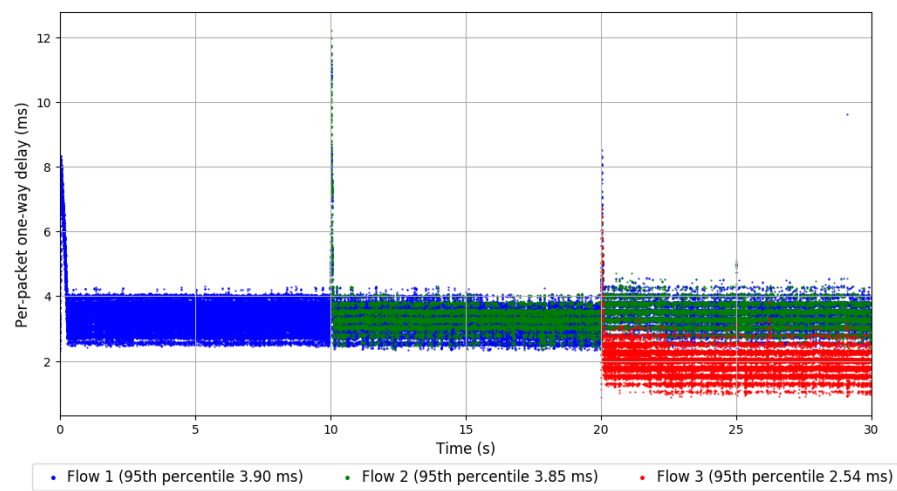
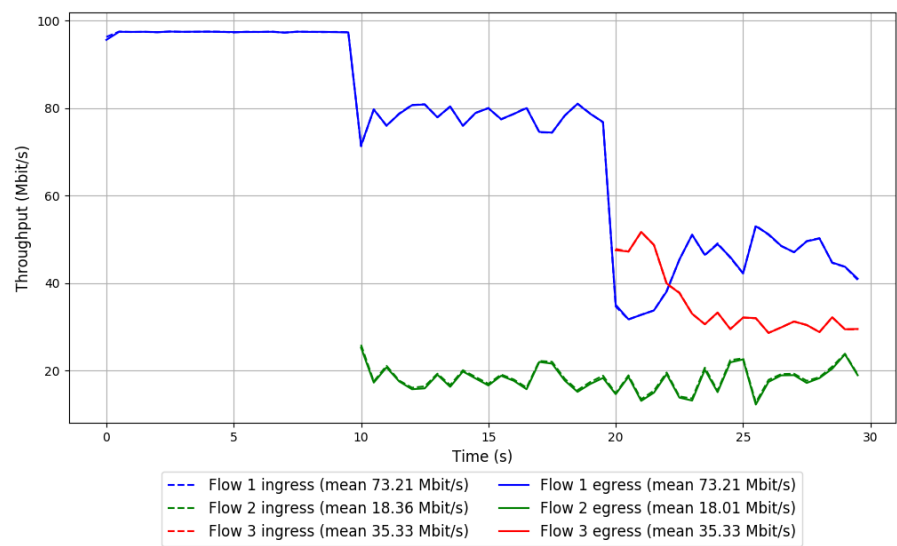


Run 2: Statistics of TCP Vegas

Start at: 2018-04-17 16:44:28
End at: 2018-04-17 16:44:58
Local clock offset: -6.18 ms
Remote clock offset: -6.789 ms

Below is generated by plot.py at 2018-04-17 20:08:02
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.94 Mbit/s
95th percentile per-packet one-way delay: 3.835 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 73.21 Mbit/s
95th percentile per-packet one-way delay: 3.898 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 18.01 Mbit/s
95th percentile per-packet one-way delay: 3.848 ms
Loss rate: 1.92%
-- Flow 3:
Average throughput: 35.33 Mbit/s
95th percentile per-packet one-way delay: 2.545 ms
Loss rate: 0.00%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

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

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

Local clock offset: -6.077 ms

Remote clock offset: -6.8 ms

Below is generated by plot.py at 2018-04-17 20:08:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.78 Mbit/s

95th percentile per-packet one-way delay: 3.728 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 51.34 Mbit/s

95th percentile per-packet one-way delay: 2.255 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 53.90 Mbit/s

95th percentile per-packet one-way delay: 3.958 ms

Loss rate: 0.00%

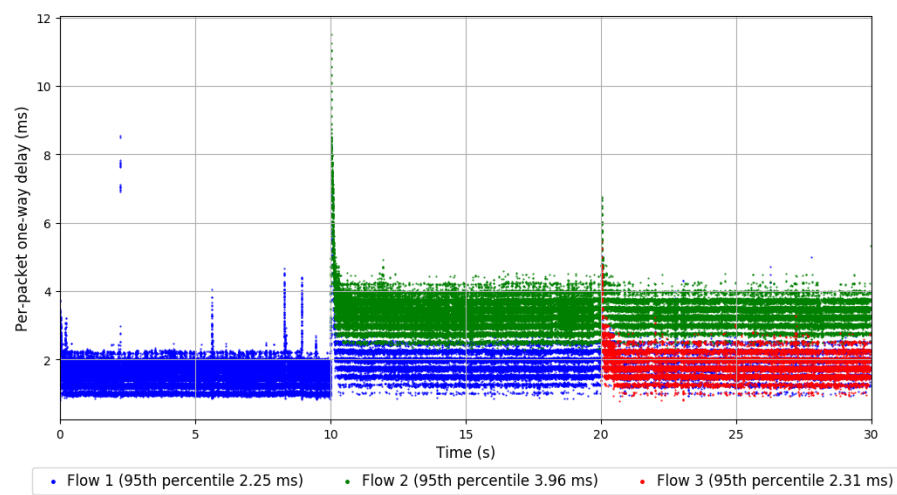
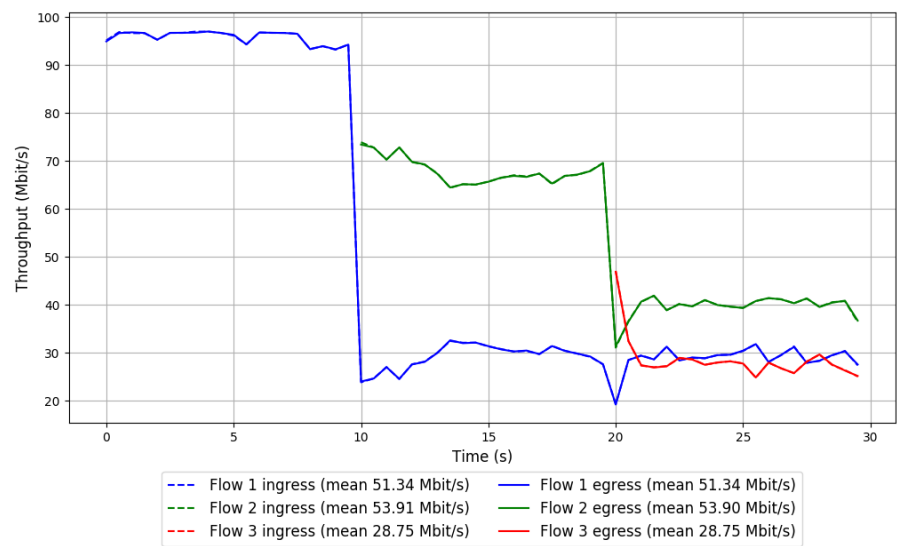
-- Flow 3:

Average throughput: 28.75 Mbit/s

95th percentile per-packet one-way delay: 2.308 ms

Loss rate: 0.00%

Run 3: Report of TCP Vegas — Data Link

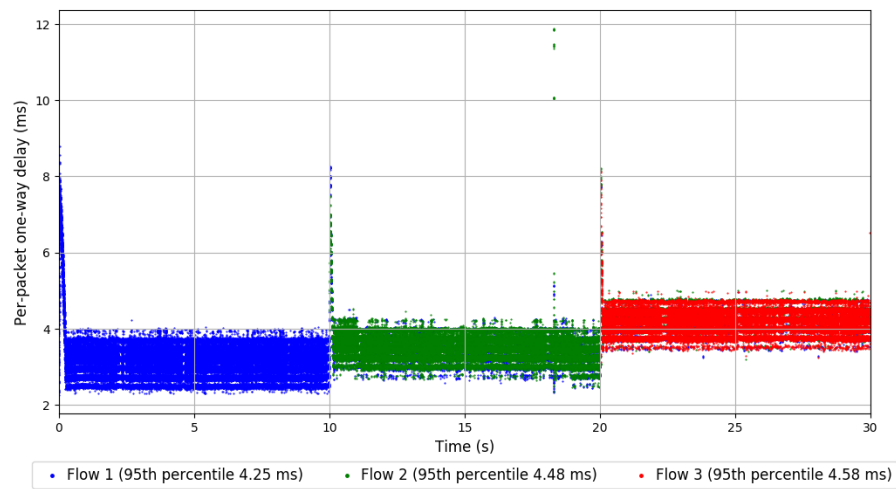
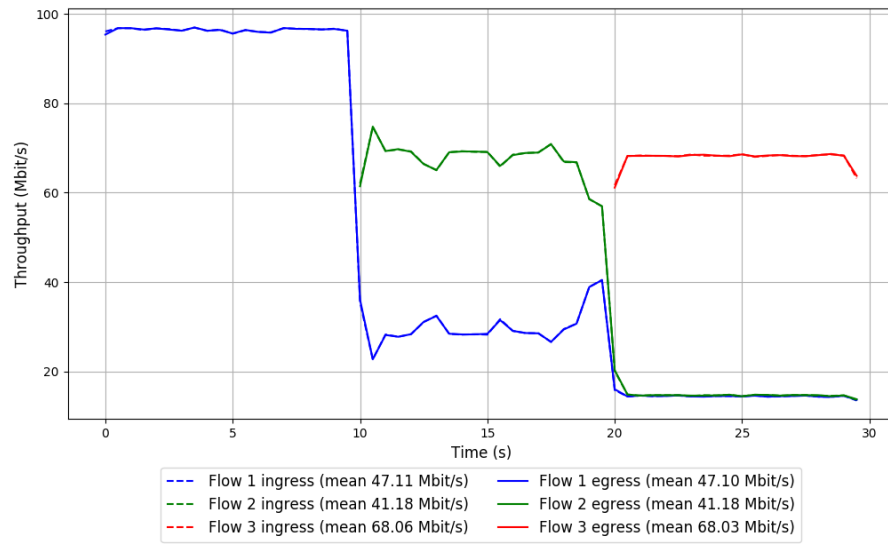


Run 4: Statistics of TCP Vegas

Start at: 2018-04-17 17:22:51
End at: 2018-04-17 17:23:21
Local clock offset: -6.056 ms
Remote clock offset: -6.924 ms

Below is generated by plot.py at 2018-04-17 20:08:19
Datalink statistics
-- Total of 3 flows:
Average throughput: 97.12 Mbit/s
95th percentile per-packet one-way delay: 4.488 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 47.10 Mbit/s
95th percentile per-packet one-way delay: 4.248 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 41.18 Mbit/s
95th percentile per-packet one-way delay: 4.483 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 68.03 Mbit/s
95th percentile per-packet one-way delay: 4.584 ms
Loss rate: 0.01%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

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

End at: 2018-04-17 17:42:31

Local clock offset: -6.752 ms

Remote clock offset: -6.97 ms

Below is generated by plot.py at 2018-04-17 20:08:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.57 Mbit/s

95th percentile per-packet one-way delay: 4.901 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 52.52 Mbit/s

95th percentile per-packet one-way delay: 4.894 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 50.16 Mbit/s

95th percentile per-packet one-way delay: 4.916 ms

Loss rate: 0.01%

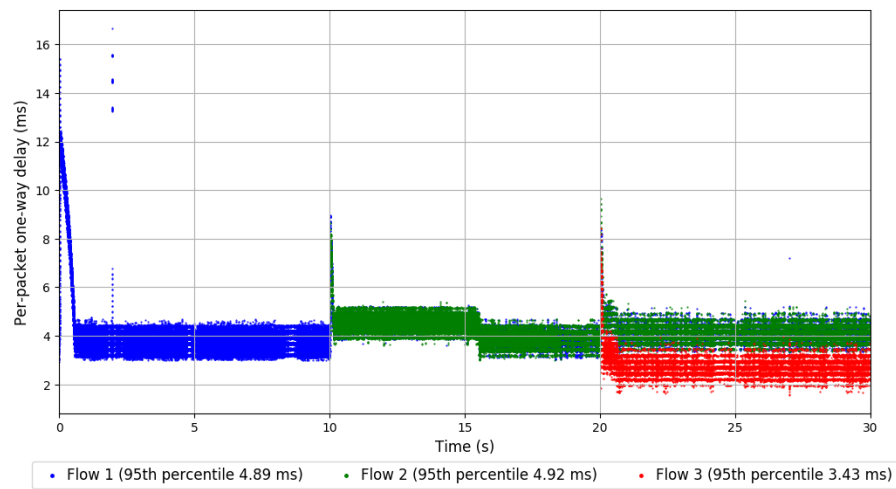
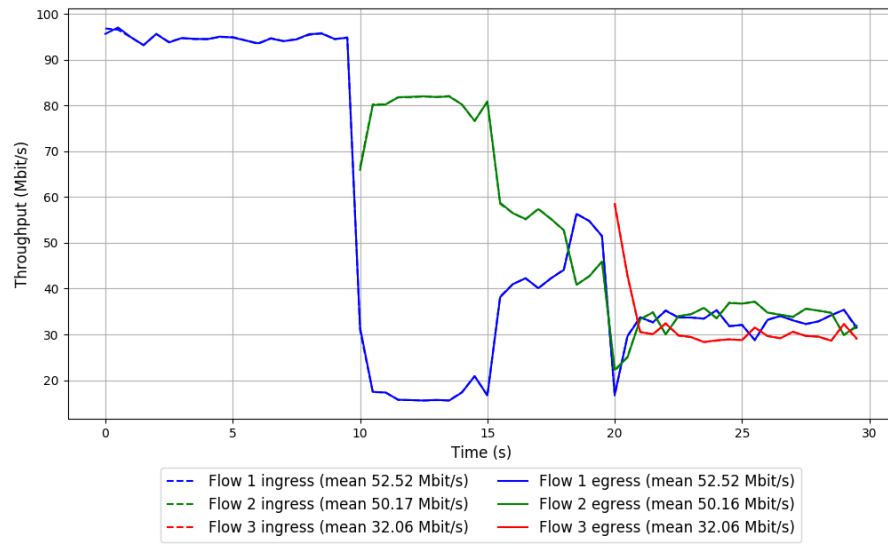
-- Flow 3:

Average throughput: 32.06 Mbit/s

95th percentile per-packet one-way delay: 3.433 ms

Loss rate: 0.00%

Run 5: Report of TCP Vegas — Data Link

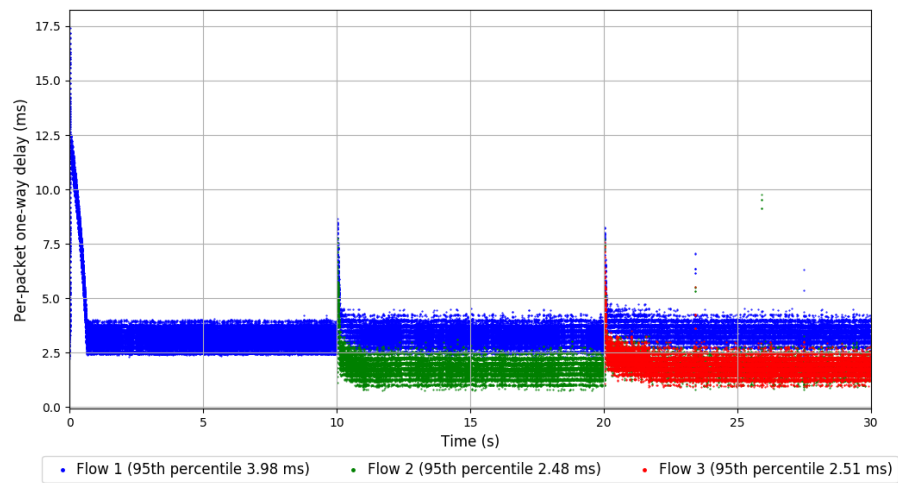
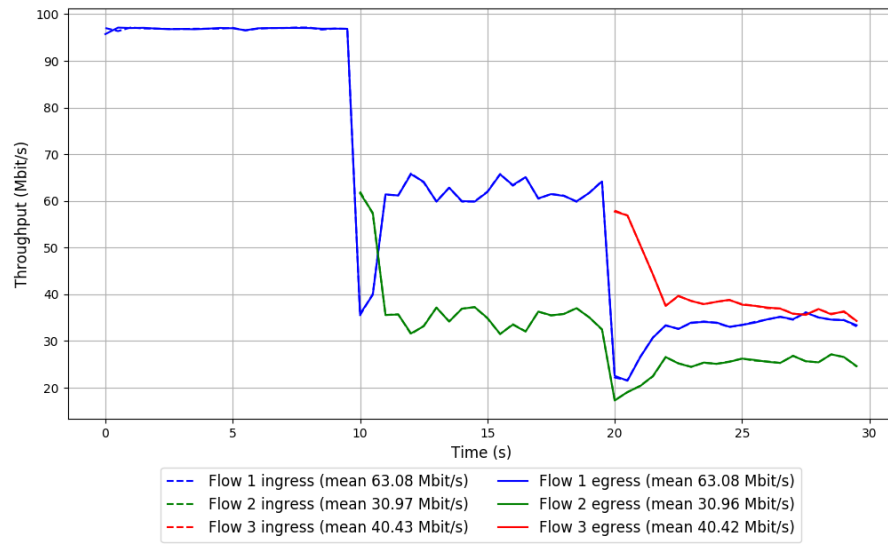


Run 6: Statistics of TCP Vegas

Start at: 2018-04-17 18:01:13
End at: 2018-04-17 18:01:43
Local clock offset: -5.88 ms
Remote clock offset: -6.848 ms

Below is generated by plot.py at 2018-04-17 20:08:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 97.11 Mbit/s
95th percentile per-packet one-way delay: 3.811 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 63.08 Mbit/s
95th percentile per-packet one-way delay: 3.981 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 30.96 Mbit/s
95th percentile per-packet one-way delay: 2.480 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 40.42 Mbit/s
95th percentile per-packet one-way delay: 2.513 ms
Loss rate: 0.00%

Run 6: Report of TCP Vegas — Data Link

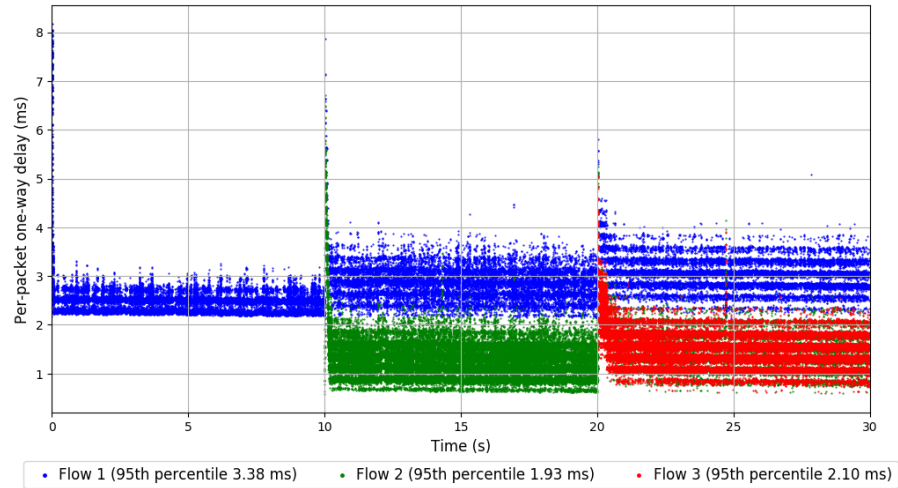
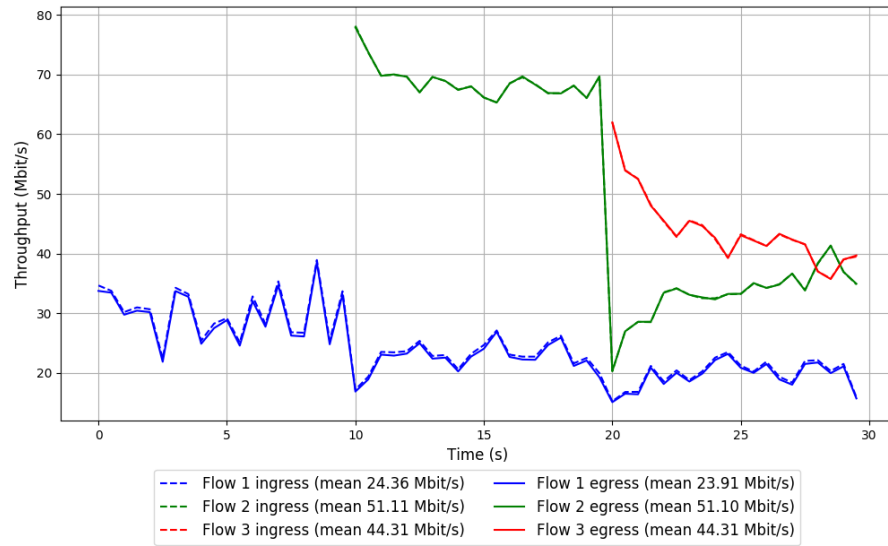


Run 7: Statistics of TCP Vegas

Start at: 2018-04-17 18:20:26
End at: 2018-04-17 18:20:56
Local clock offset: -5.731 ms
Remote clock offset: -2.828 ms

Below is generated by plot.py at 2018-04-17 20:08:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 72.66 Mbit/s
95th percentile per-packet one-way delay: 3.157 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 23.91 Mbit/s
95th percentile per-packet one-way delay: 3.385 ms
Loss rate: 1.84%
-- Flow 2:
Average throughput: 51.10 Mbit/s
95th percentile per-packet one-way delay: 1.933 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 44.31 Mbit/s
95th percentile per-packet one-way delay: 2.104 ms
Loss rate: 0.00%

Run 7: Report of TCP Vegas — Data Link

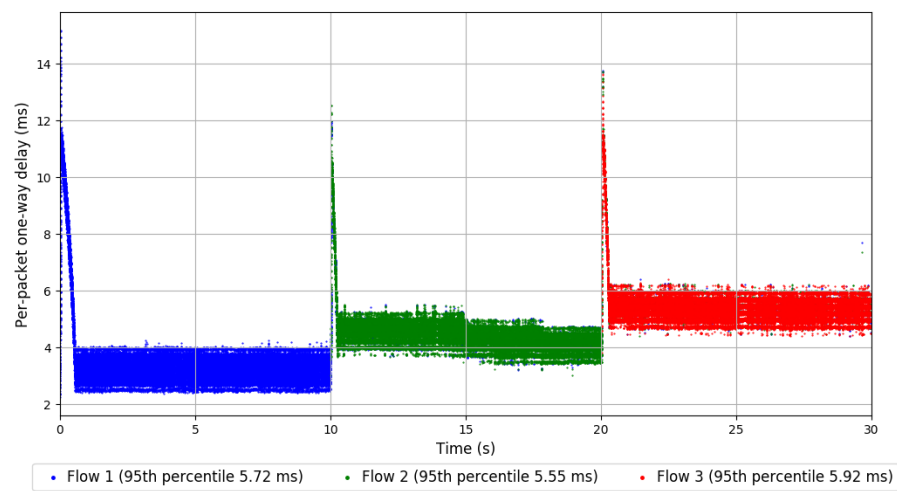
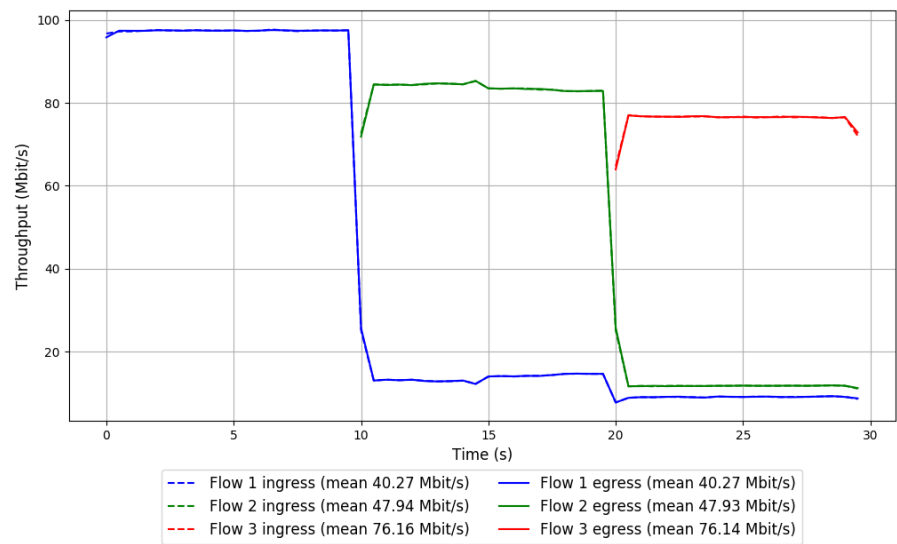


Run 8: Statistics of TCP Vegas

Start at: 2018-04-17 18:39:36
End at: 2018-04-17 18:40:06
Local clock offset: -6.024 ms
Remote clock offset: -0.056 ms

```
# Below is generated by plot.py at 2018-04-17 20:08:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.47 Mbit/s
95th percentile per-packet one-way delay: 5.750 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 40.27 Mbit/s
95th percentile per-packet one-way delay: 5.719 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 47.93 Mbit/s
95th percentile per-packet one-way delay: 5.552 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 76.14 Mbit/s
95th percentile per-packet one-way delay: 5.918 ms
Loss rate: 0.00%
```

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-04-17 18:59:25

End at: 2018-04-17 18:59:55

Local clock offset: -5.283 ms

Remote clock offset: 1.817 ms

Below is generated by plot.py at 2018-04-17 20:08:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.17 Mbit/s

95th percentile per-packet one-way delay: 3.563 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 48.35 Mbit/s

95th percentile per-packet one-way delay: 3.349 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 52.75 Mbit/s

95th percentile per-packet one-way delay: 3.601 ms

Loss rate: 0.00%

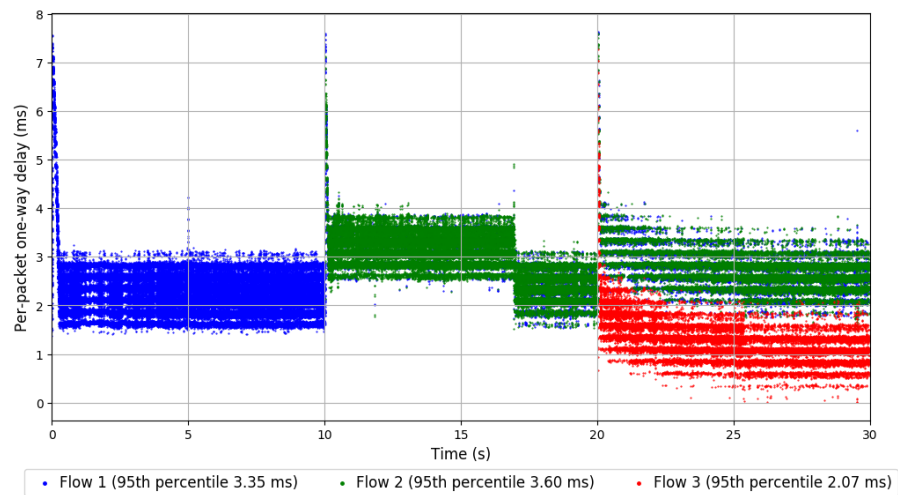
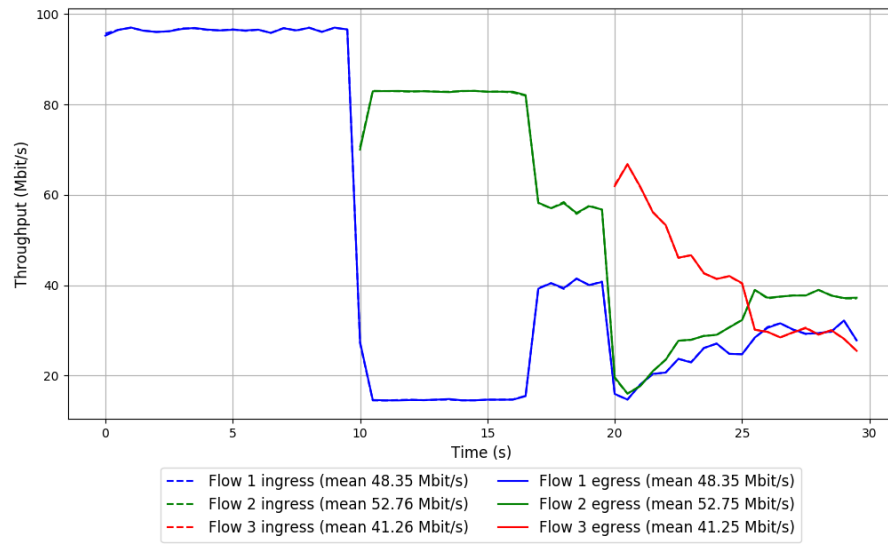
-- Flow 3:

Average throughput: 41.25 Mbit/s

95th percentile per-packet one-way delay: 2.070 ms

Loss rate: 0.00%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-04-17 19:18:37

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

Local clock offset: -5.918 ms

Remote clock offset: 2.748 ms

Below is generated by plot.py at 2018-04-17 20:09:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.97 Mbit/s

95th percentile per-packet one-way delay: 4.398 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 53.92 Mbit/s

95th percentile per-packet one-way delay: 2.919 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 41.01 Mbit/s

95th percentile per-packet one-way delay: 3.064 ms

Loss rate: 0.00%

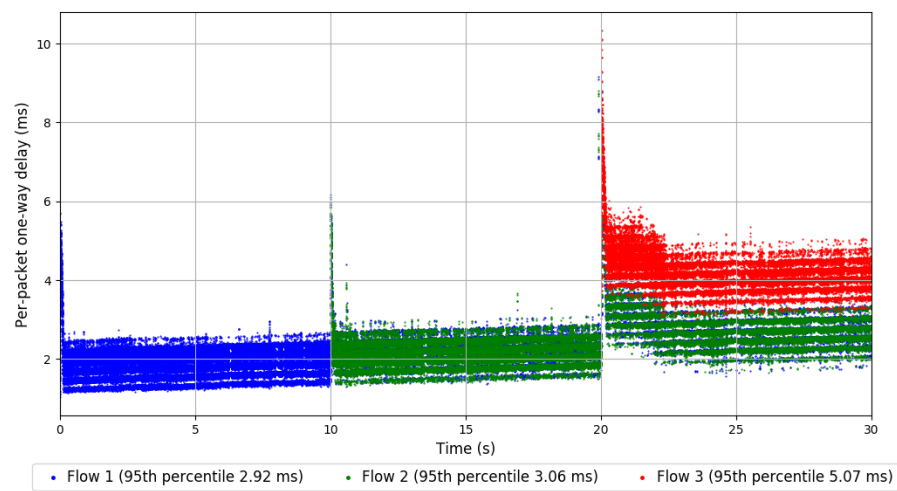
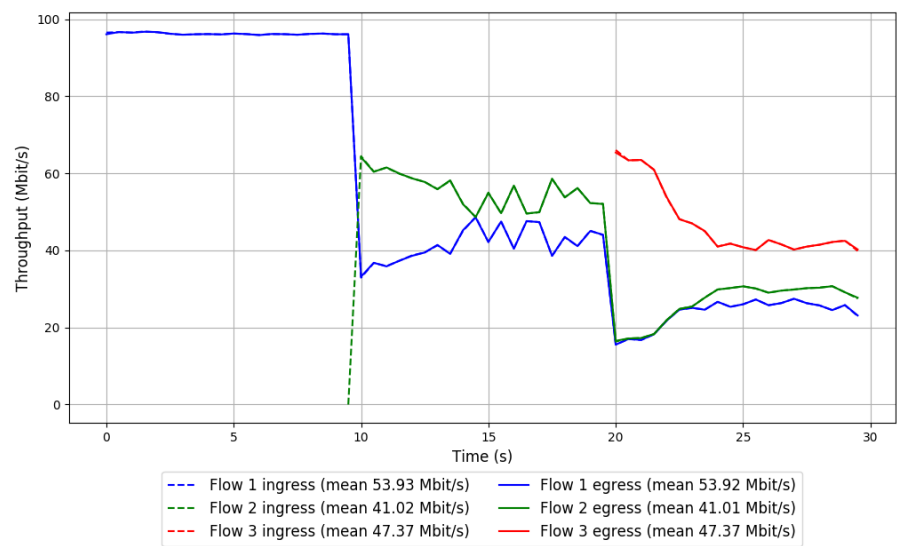
-- Flow 3:

Average throughput: 47.37 Mbit/s

95th percentile per-packet one-way delay: 5.067 ms

Loss rate: 0.00%

Run 10: Report of TCP Vegas — Data Link

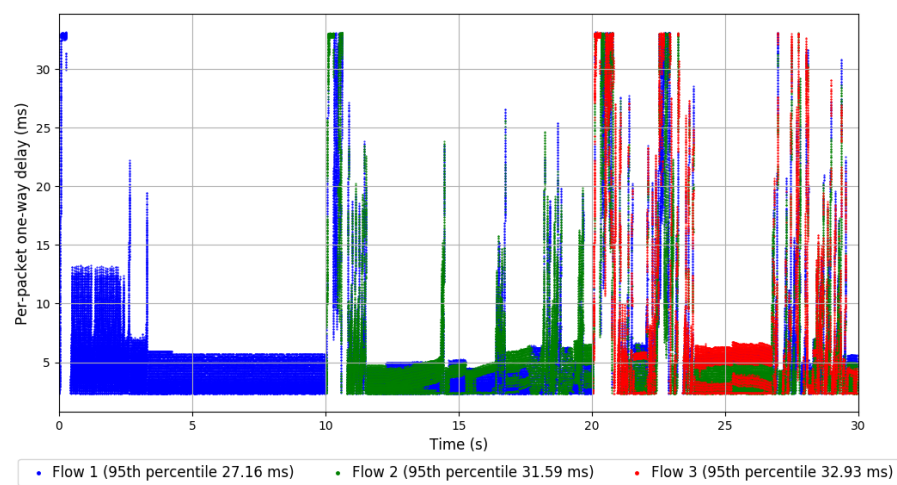
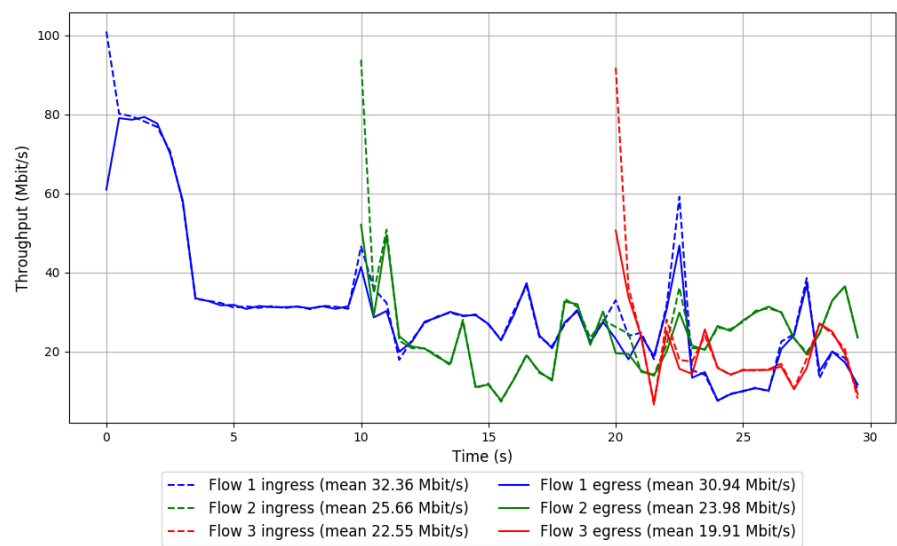


Run 1: Statistics of Verus

Start at: 2018-04-17 16:26:25
End at: 2018-04-17 16:26:55
Local clock offset: -6.203 ms
Remote clock offset: -7.351 ms

Below is generated by plot.py at 2018-04-17 20:09:37
Datalink statistics
-- Total of 3 flows:
Average throughput: 53.49 Mbit/s
95th percentile per-packet one-way delay: 30.917 ms
Loss rate: 5.98%
-- Flow 1:
Average throughput: 30.94 Mbit/s
95th percentile per-packet one-way delay: 27.157 ms
Loss rate: 4.37%
-- Flow 2:
Average throughput: 23.98 Mbit/s
95th percentile per-packet one-way delay: 31.592 ms
Loss rate: 6.52%
-- Flow 3:
Average throughput: 19.91 Mbit/s
95th percentile per-packet one-way delay: 32.926 ms
Loss rate: 11.73%

Run 1: Report of Verus — Data Link

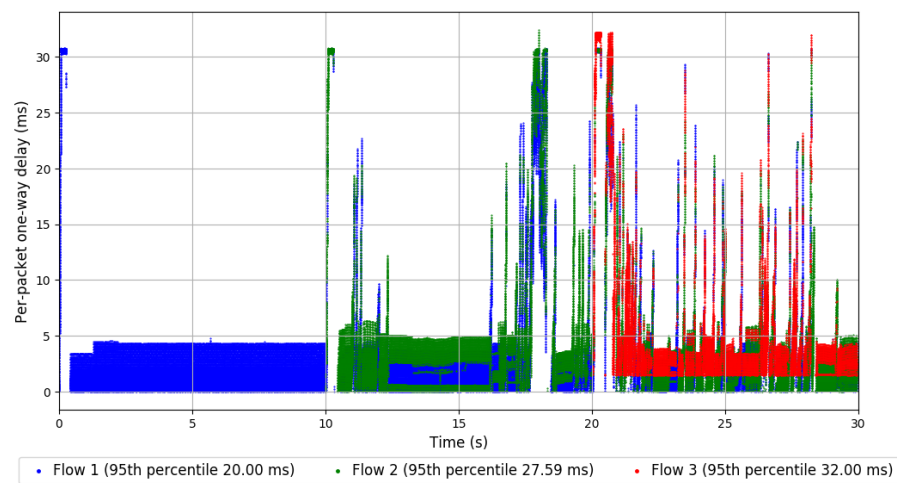
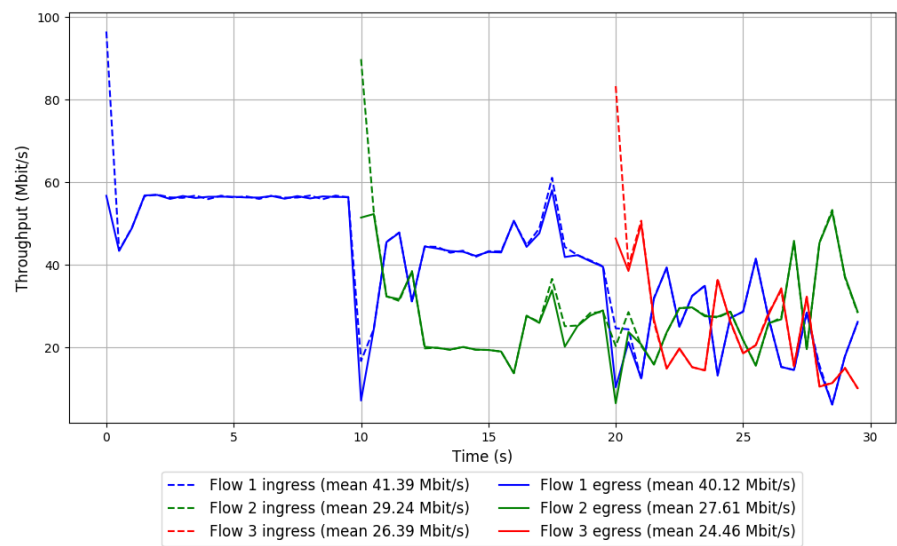


Run 2: Statistics of Verus

Start at: 2018-04-17 16:45:36
End at: 2018-04-17 16:46:06
Local clock offset: -5.343 ms
Remote clock offset: -6.836 ms

Below is generated by plot.py at 2018-04-17 20:09:37
Datalink statistics
-- Total of 3 flows:
Average throughput: 66.60 Mbit/s
95th percentile per-packet one-way delay: 25.166 ms
Loss rate: 4.29%
-- Flow 1:
Average throughput: 40.12 Mbit/s
95th percentile per-packet one-way delay: 20.003 ms
Loss rate: 3.04%
-- Flow 2:
Average throughput: 27.61 Mbit/s
95th percentile per-packet one-way delay: 27.588 ms
Loss rate: 5.57%
-- Flow 3:
Average throughput: 24.46 Mbit/s
95th percentile per-packet one-way delay: 31.999 ms
Loss rate: 7.32%

Run 2: Report of Verus — Data Link

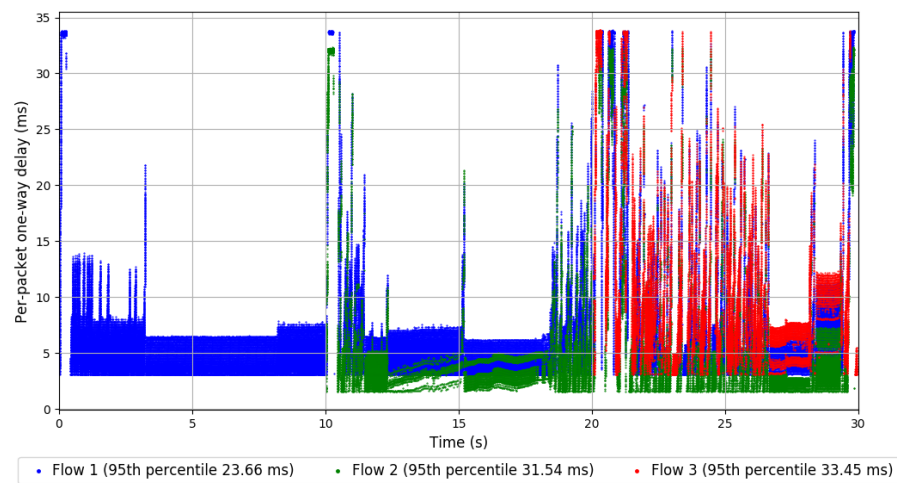
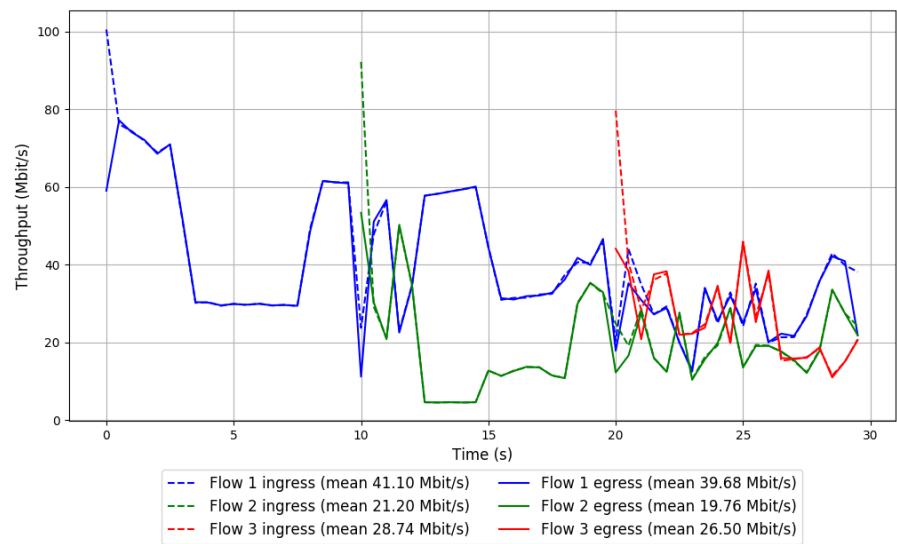


Run 3: Statistics of Verus

Start at: 2018-04-17 17:04:49
End at: 2018-04-17 17:05:19
Local clock offset: -6.857 ms
Remote clock offset: -6.826 ms

Below is generated by plot.py at 2018-04-17 20:09:37
Datalink statistics
-- Total of 3 flows:
Average throughput: 61.34 Mbit/s
95th percentile per-packet one-way delay: 28.842 ms
Loss rate: 4.76%
-- Flow 1:
Average throughput: 39.68 Mbit/s
95th percentile per-packet one-way delay: 23.665 ms
Loss rate: 3.36%
-- Flow 2:
Average throughput: 19.76 Mbit/s
95th percentile per-packet one-way delay: 31.543 ms
Loss rate: 6.78%
-- Flow 3:
Average throughput: 26.50 Mbit/s
95th percentile per-packet one-way delay: 33.452 ms
Loss rate: 7.82%

Run 3: Report of Verus — Data Link

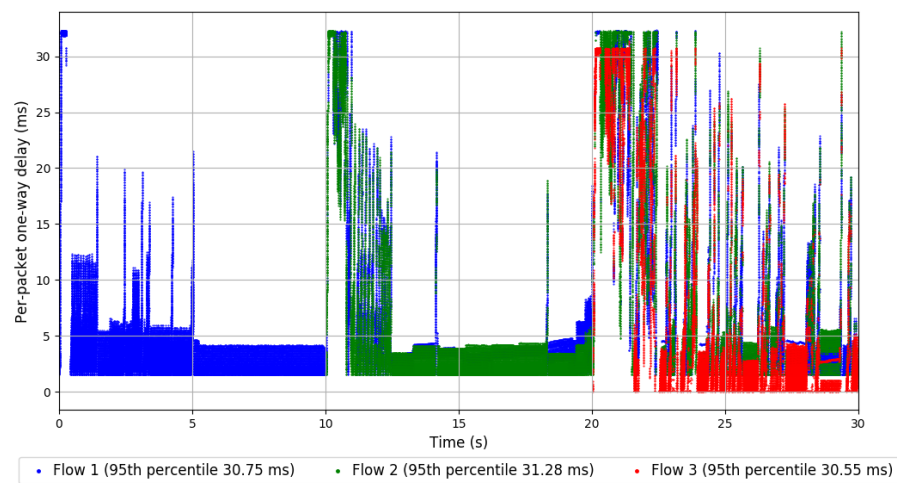
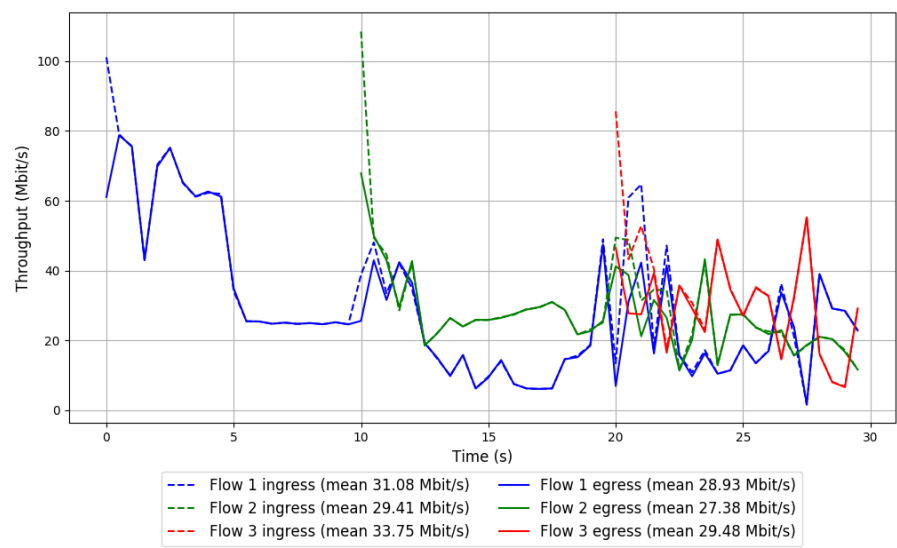


Run 4: Statistics of Verus

Start at: 2018-04-17 17:23:59
End at: 2018-04-17 17:24:29
Local clock offset: -5.275 ms
Remote clock offset: -6.932 ms

```
# Below is generated by plot.py at 2018-04-17 20:09:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 56.91 Mbit/s
95th percentile per-packet one-way delay: 30.596 ms
Loss rate: 7.94%
-- Flow 1:
Average throughput: 28.93 Mbit/s
95th percentile per-packet one-way delay: 30.753 ms
Loss rate: 6.93%
-- Flow 2:
Average throughput: 27.38 Mbit/s
95th percentile per-packet one-way delay: 31.281 ms
Loss rate: 6.88%
-- Flow 3:
Average throughput: 29.48 Mbit/s
95th percentile per-packet one-way delay: 30.547 ms
Loss rate: 12.63%
```

Run 4: Report of Verus — Data Link

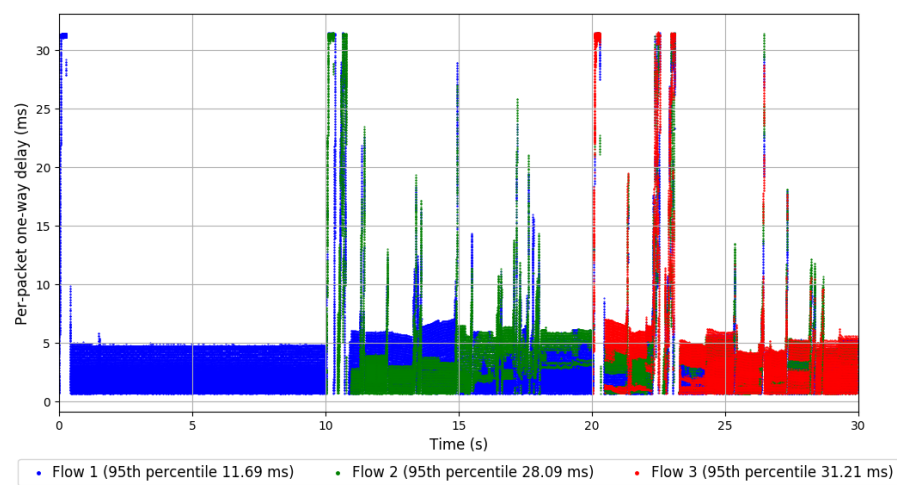
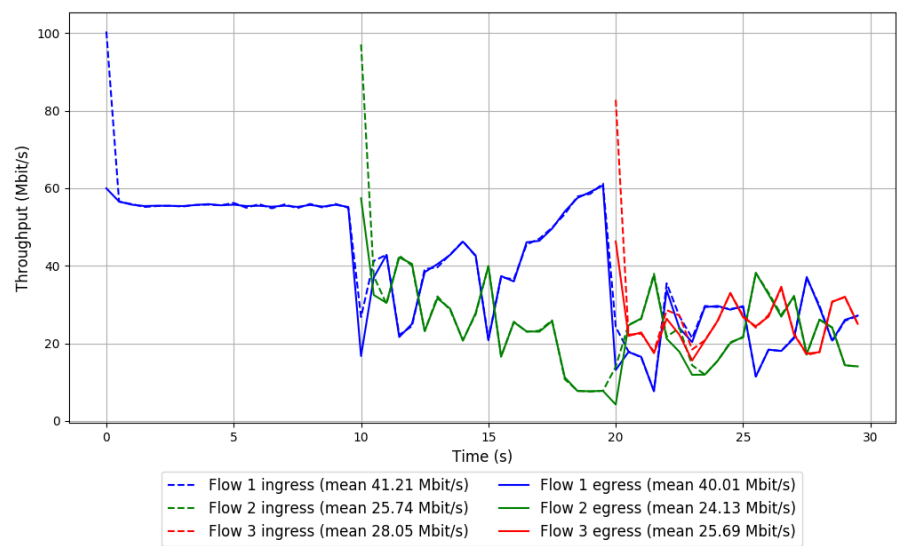


Run 5: Statistics of Verus

Start at: 2018-04-17 17:43:10
End at: 2018-04-17 17:43:40
Local clock offset: -5.954 ms
Remote clock offset: -6.946 ms

Below is generated by plot.py at 2018-04-17 20:09:37
Datalink statistics
-- Total of 3 flows:
Average throughput: 64.58 Mbit/s
95th percentile per-packet one-way delay: 21.577 ms
Loss rate: 4.51%
-- Flow 1:
Average throughput: 40.01 Mbit/s
95th percentile per-packet one-way delay: 11.694 ms
Loss rate: 2.91%
-- Flow 2:
Average throughput: 24.13 Mbit/s
95th percentile per-packet one-way delay: 28.091 ms
Loss rate: 6.24%
-- Flow 3:
Average throughput: 25.69 Mbit/s
95th percentile per-packet one-way delay: 31.215 ms
Loss rate: 8.42%

Run 5: Report of Verus — Data Link

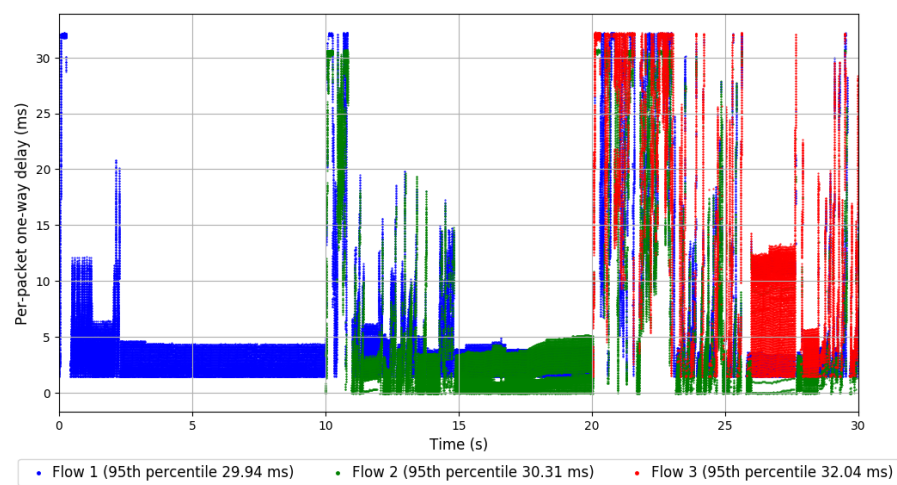
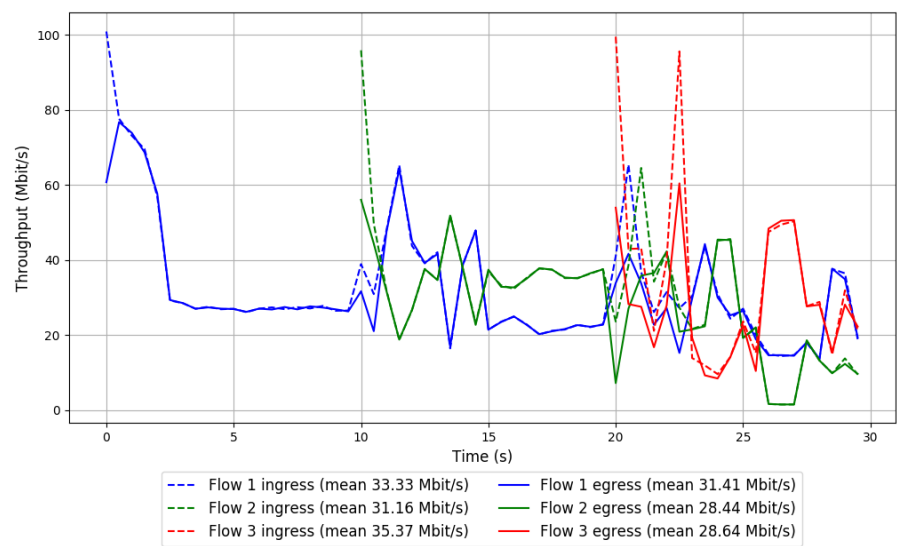


Run 6: Statistics of Verus

Start at: 2018-04-17 18:02:21
End at: 2018-04-17 18:02:51
Local clock offset: -5.098 ms
Remote clock offset: -6.911 ms

Below is generated by plot.py at 2018-04-17 20:09:41
Datalink statistics
-- Total of 3 flows:
Average throughput: 59.85 Mbit/s
95th percentile per-packet one-way delay: 30.589 ms
Loss rate: 8.98%
-- Flow 1:
Average throughput: 31.41 Mbit/s
95th percentile per-packet one-way delay: 29.936 ms
Loss rate: 5.71%
-- Flow 2:
Average throughput: 28.44 Mbit/s
95th percentile per-packet one-way delay: 30.306 ms
Loss rate: 8.66%
-- Flow 3:
Average throughput: 28.64 Mbit/s
95th percentile per-packet one-way delay: 32.043 ms
Loss rate: 18.81%

Run 6: Report of Verus — Data Link

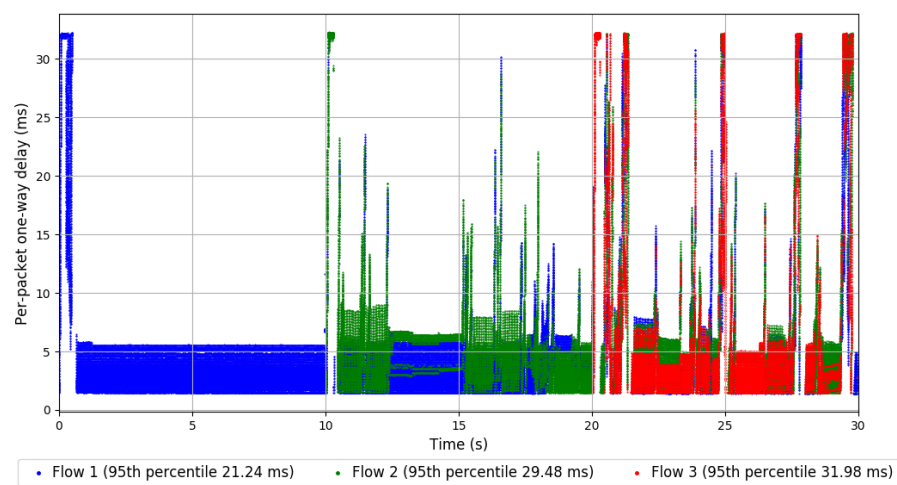
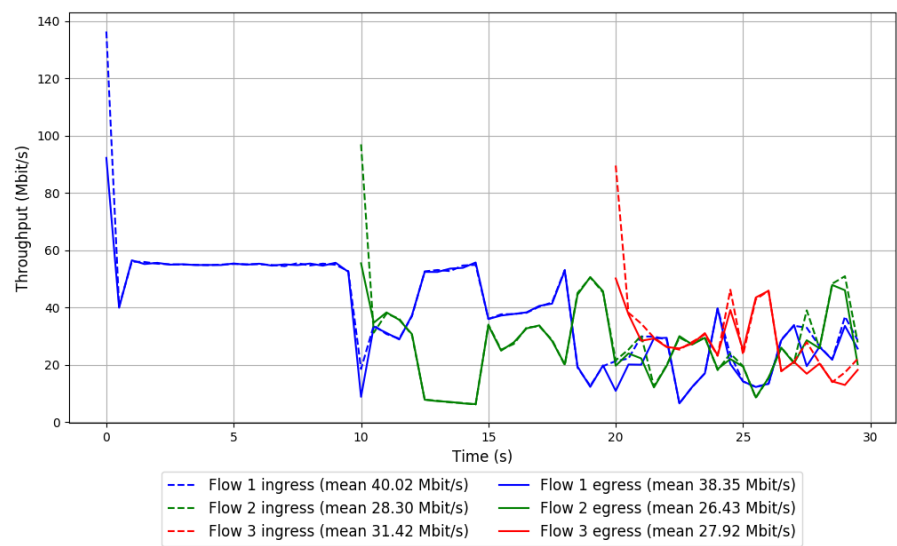


Run 7: Statistics of Verus

Start at: 2018-04-17 18:21:33
End at: 2018-04-17 18:22:03
Local clock offset: -6.515 ms
Remote clock offset: -2.616 ms

Below is generated by plot.py at 2018-04-17 20:09:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 65.17 Mbit/s
95th percentile per-packet one-way delay: 28.167 ms
Loss rate: 5.90%
-- Flow 1:
Average throughput: 38.35 Mbit/s
95th percentile per-packet one-way delay: 21.237 ms
Loss rate: 4.17%
-- Flow 2:
Average throughput: 26.43 Mbit/s
95th percentile per-packet one-way delay: 29.482 ms
Loss rate: 6.62%
-- Flow 3:
Average throughput: 27.92 Mbit/s
95th percentile per-packet one-way delay: 31.980 ms
Loss rate: 11.23%

Run 7: Report of Verus — Data Link

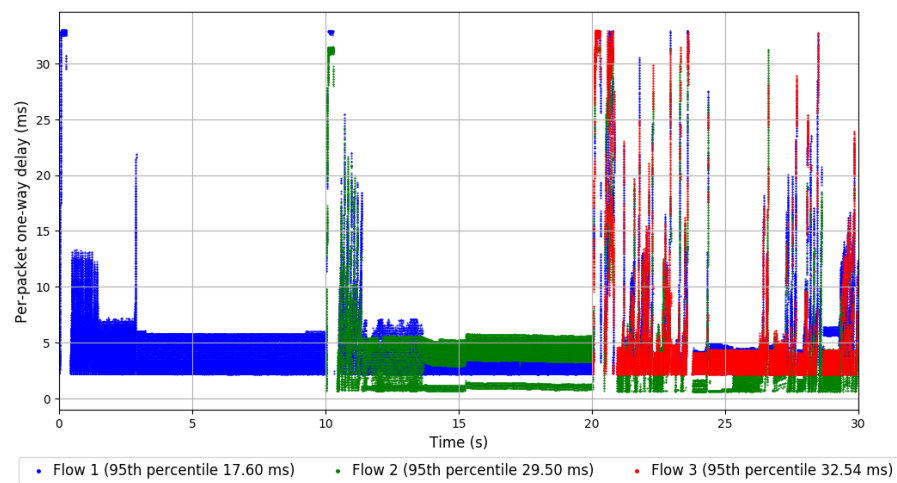
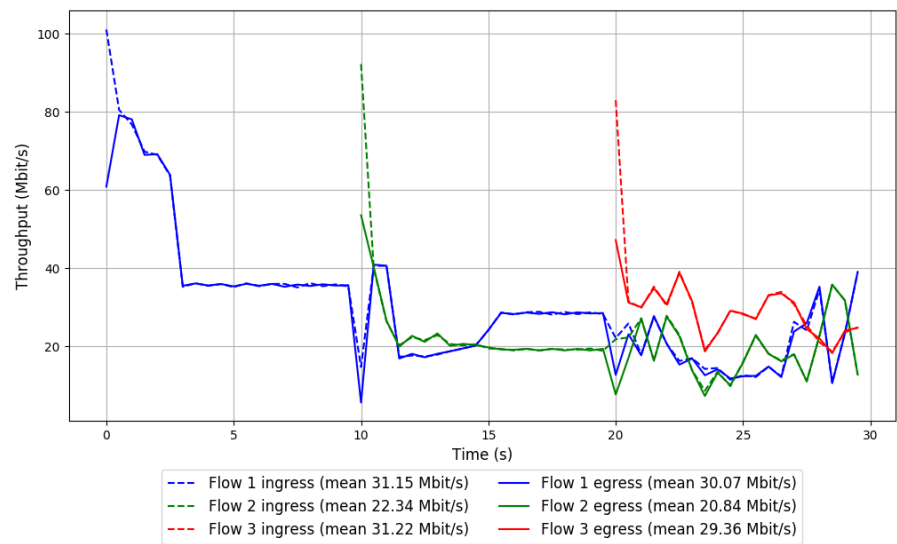


Run 8: Statistics of Verus

Start at: 2018-04-17 18:40:44
End at: 2018-04-17 18:41:14
Local clock offset: -5.936 ms
Remote clock offset: 0.072 ms

Below is generated by plot.py at 2018-04-17 20:09:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 53.67 Mbit/s
95th percentile per-packet one-way delay: 25.973 ms
Loss rate: 4.74%
-- Flow 1:
Average throughput: 30.07 Mbit/s
95th percentile per-packet one-way delay: 17.596 ms
Loss rate: 3.44%
-- Flow 2:
Average throughput: 20.84 Mbit/s
95th percentile per-packet one-way delay: 29.495 ms
Loss rate: 6.69%
-- Flow 3:
Average throughput: 29.36 Mbit/s
95th percentile per-packet one-way delay: 32.540 ms
Loss rate: 5.87%

Run 8: Report of Verus — Data Link

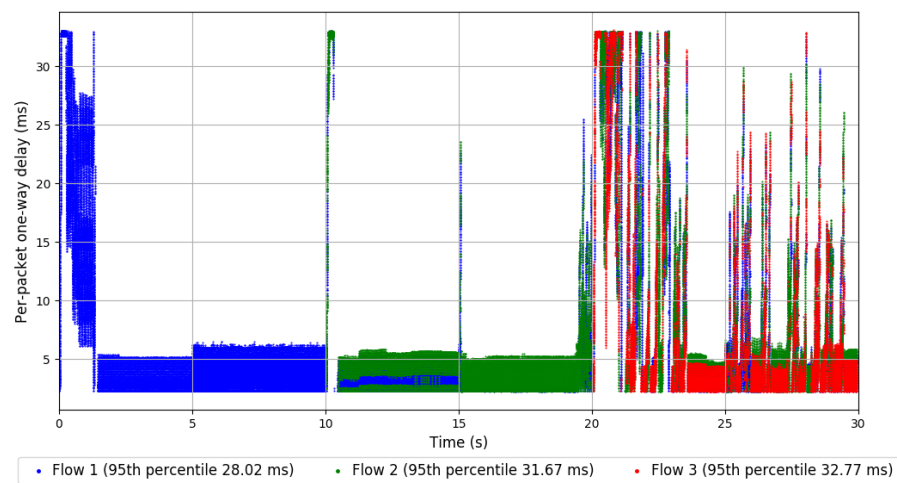
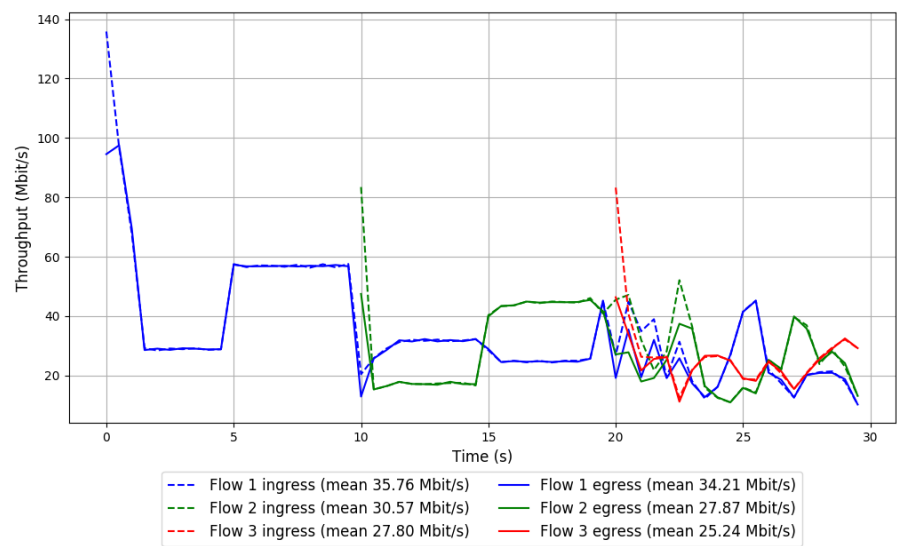


Run 9: Statistics of Verus

Start at: 2018-04-17 19:00:33
End at: 2018-04-17 19:01:03
Local clock offset: -6.057 ms
Remote clock offset: 1.978 ms

Below is generated by plot.py at 2018-04-17 20:10:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 61.11 Mbit/s
95th percentile per-packet one-way delay: 30.902 ms
Loss rate: 6.43%
-- Flow 1:
Average throughput: 34.21 Mbit/s
95th percentile per-packet one-way delay: 28.020 ms
Loss rate: 4.34%
-- Flow 2:
Average throughput: 27.87 Mbit/s
95th percentile per-packet one-way delay: 31.669 ms
Loss rate: 8.85%
-- Flow 3:
Average throughput: 25.24 Mbit/s
95th percentile per-packet one-way delay: 32.768 ms
Loss rate: 9.18%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

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

End at: 2018-04-17 19:20:15

Local clock offset: -5.936 ms

Remote clock offset: 1.247 ms

Below is generated by plot.py at 2018-04-17 20:10:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 64.53 Mbit/s

95th percentile per-packet one-way delay: 28.698 ms

Loss rate: 5.78%

-- Flow 1:

Average throughput: 40.76 Mbit/s

95th percentile per-packet one-way delay: 14.610 ms

Loss rate: 3.04%

-- Flow 2:

Average throughput: 24.91 Mbit/s

95th percentile per-packet one-way delay: 31.838 ms

Loss rate: 7.11%

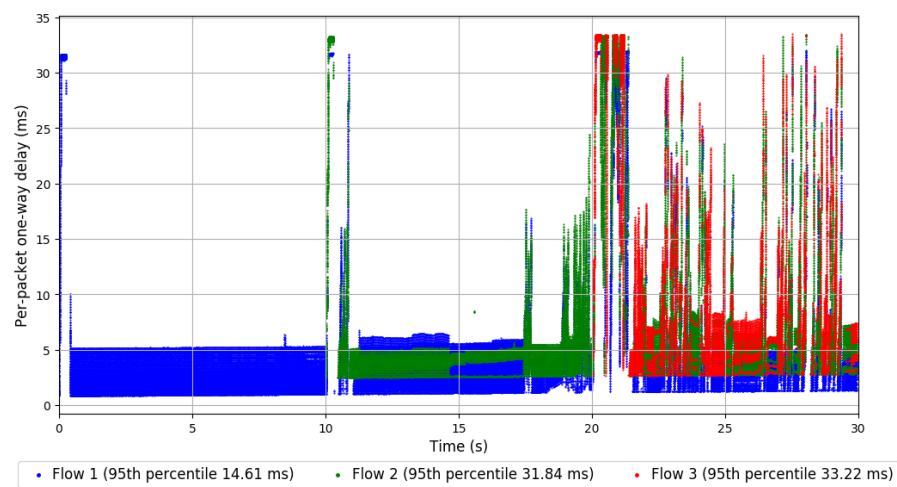
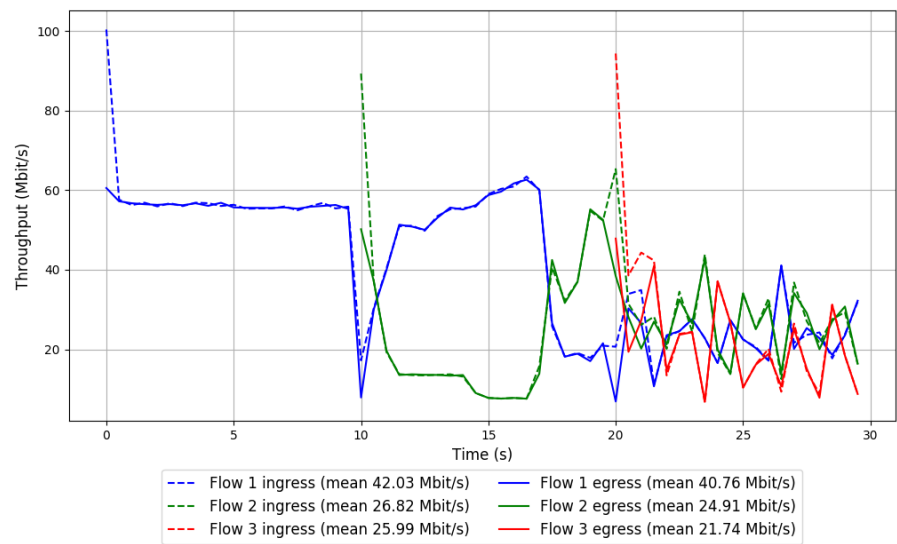
-- Flow 3:

Average throughput: 21.74 Mbit/s

95th percentile per-packet one-way delay: 33.221 ms

Loss rate: 16.39%

Run 10: Report of Verus — Data Link

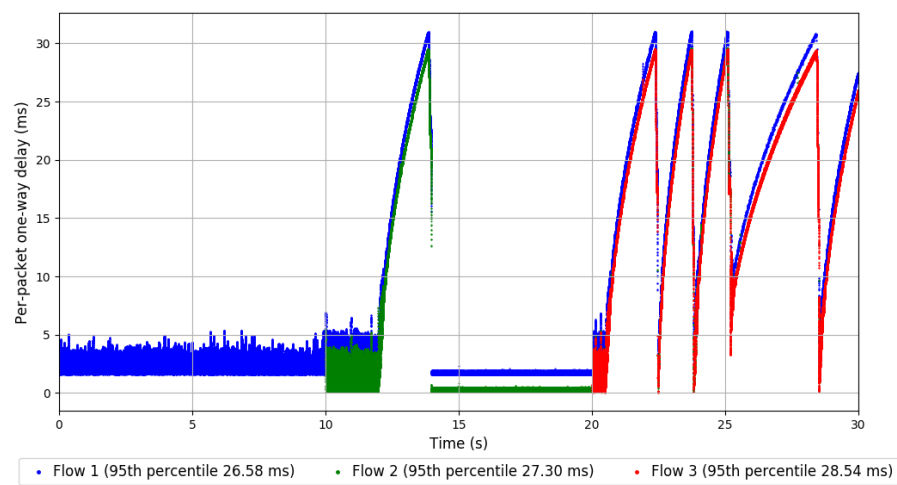
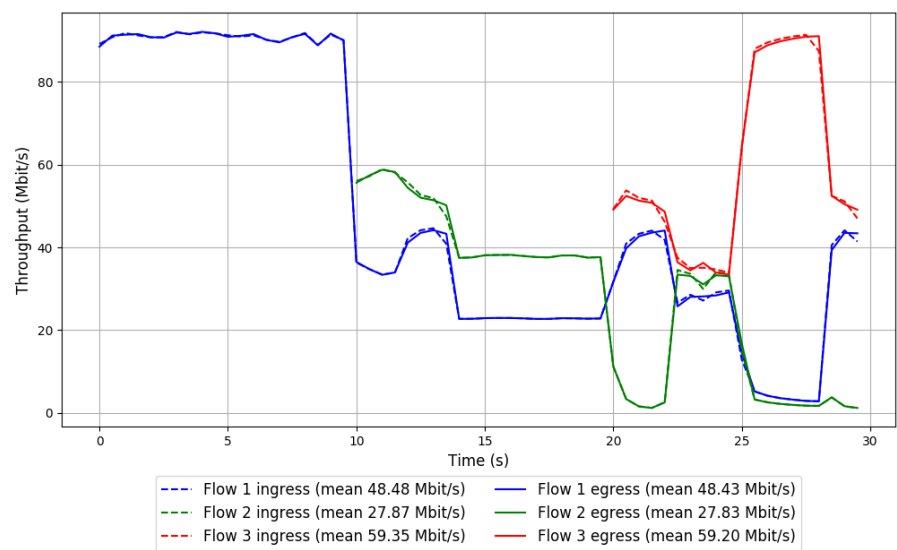


Run 1: Statistics of Copa

Start at: 2018-04-17 16:15:14
End at: 2018-04-17 16:15:44
Local clock offset: -5.537 ms
Remote clock offset: -7.176 ms

Below is generated by plot.py at 2018-04-17 20:11:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 86.66 Mbit/s
95th percentile per-packet one-way delay: 27.760 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 48.43 Mbit/s
95th percentile per-packet one-way delay: 26.583 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 27.83 Mbit/s
95th percentile per-packet one-way delay: 27.295 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 59.20 Mbit/s
95th percentile per-packet one-way delay: 28.538 ms
Loss rate: 0.01%

Run 1: Report of Copa — Data Link

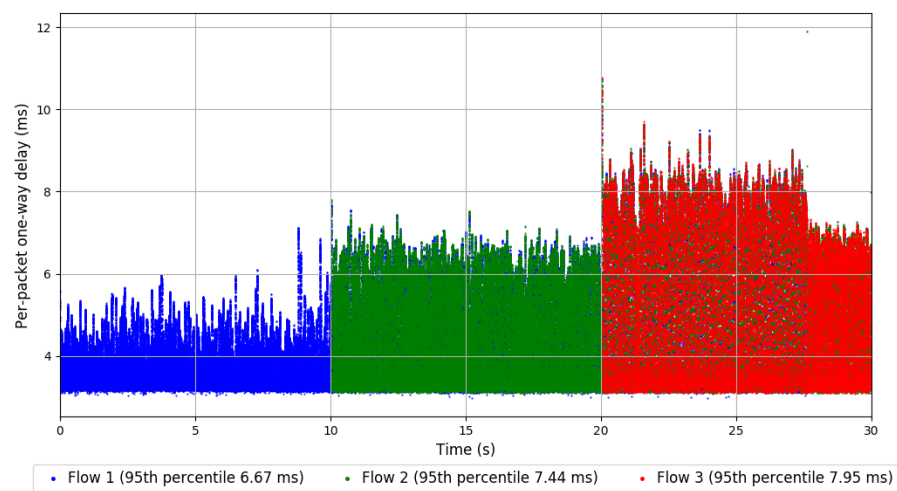
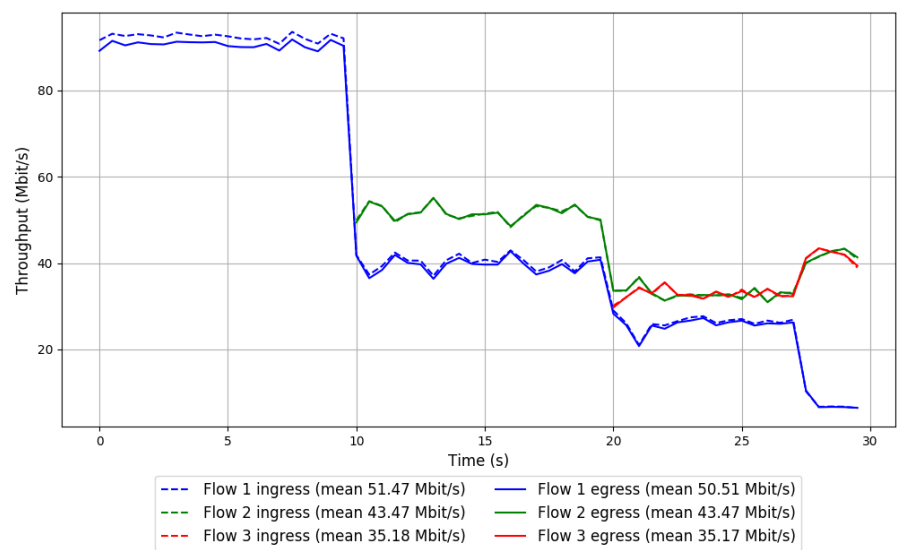


Run 2: Statistics of Copa

Start at: 2018-04-17 16:34:25
End at: 2018-04-17 16:34:55
Local clock offset: -6.947 ms
Remote clock offset: -6.945 ms

Below is generated by plot.py at 2018-04-17 20:11:52
Datalink statistics
-- Total of 3 flows:
Average throughput: 91.13 Mbit/s
95th percentile per-packet one-way delay: 7.357 ms
Loss rate: 1.04%
-- Flow 1:
Average throughput: 50.51 Mbit/s
95th percentile per-packet one-way delay: 6.668 ms
Loss rate: 1.86%
-- Flow 2:
Average throughput: 43.47 Mbit/s
95th percentile per-packet one-way delay: 7.439 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 35.17 Mbit/s
95th percentile per-packet one-way delay: 7.949 ms
Loss rate: 0.00%

Run 2: Report of Copa — Data Link

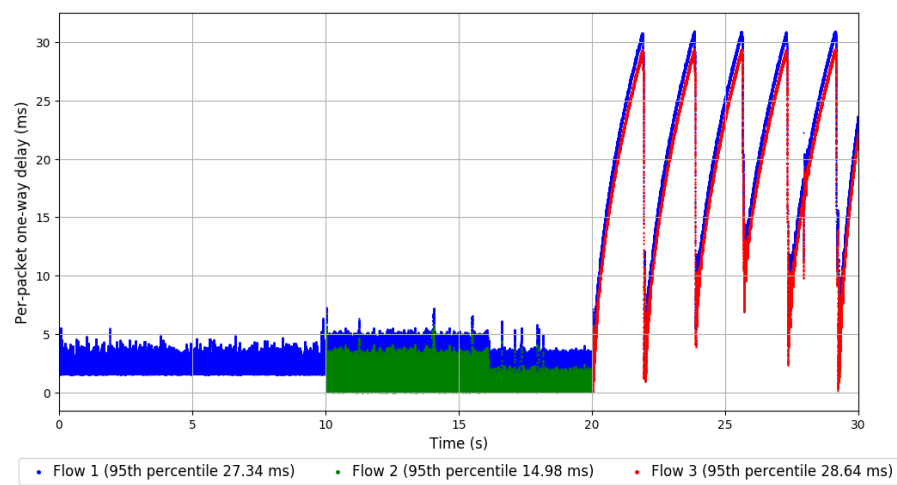
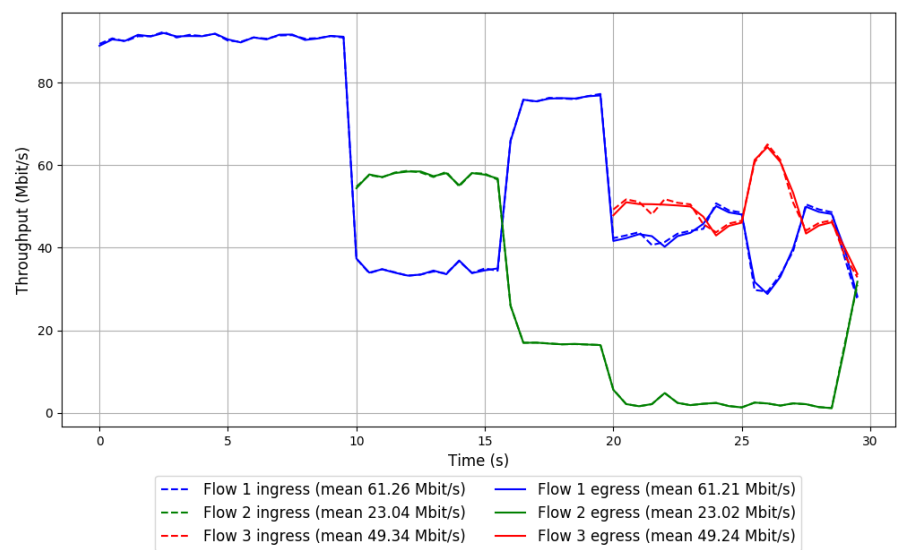


Run 3: Statistics of Copa

Start at: 2018-04-17 16:53:37
End at: 2018-04-17 16:54:07
Local clock offset: -5.332 ms
Remote clock offset: -6.773 ms

```
# Below is generated by plot.py at 2018-04-17 20:12:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.90 Mbit/s
95th percentile per-packet one-way delay: 27.660 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 61.21 Mbit/s
95th percentile per-packet one-way delay: 27.340 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 23.02 Mbit/s
95th percentile per-packet one-way delay: 14.983 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 49.24 Mbit/s
95th percentile per-packet one-way delay: 28.639 ms
Loss rate: 0.01%
```

Run 3: Report of Copa — Data Link

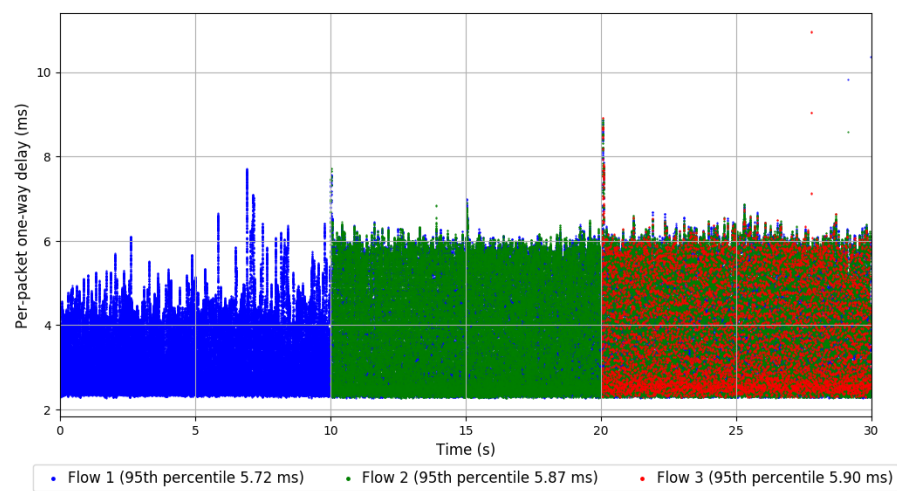
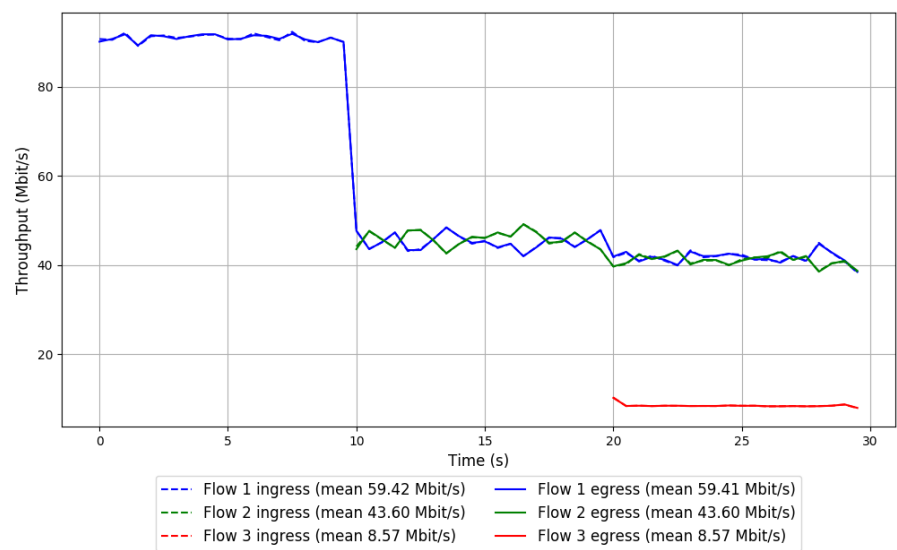


Run 4: Statistics of Copa

Start at: 2018-04-17 17:12:48
End at: 2018-04-17 17:13:18
Local clock offset: -6.061 ms
Remote clock offset: -6.873 ms

```
# Below is generated by plot.py at 2018-04-17 20:12:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.28 Mbit/s
95th percentile per-packet one-way delay: 5.794 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 59.41 Mbit/s
95th percentile per-packet one-way delay: 5.721 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 43.60 Mbit/s
95th percentile per-packet one-way delay: 5.870 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 8.57 Mbit/s
95th percentile per-packet one-way delay: 5.903 ms
Loss rate: 0.00%
```

Run 4: Report of Copa — Data Link

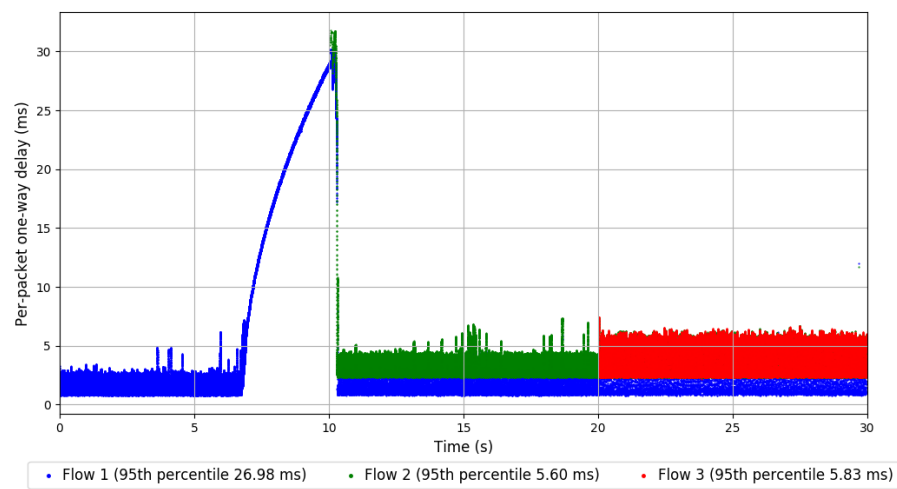
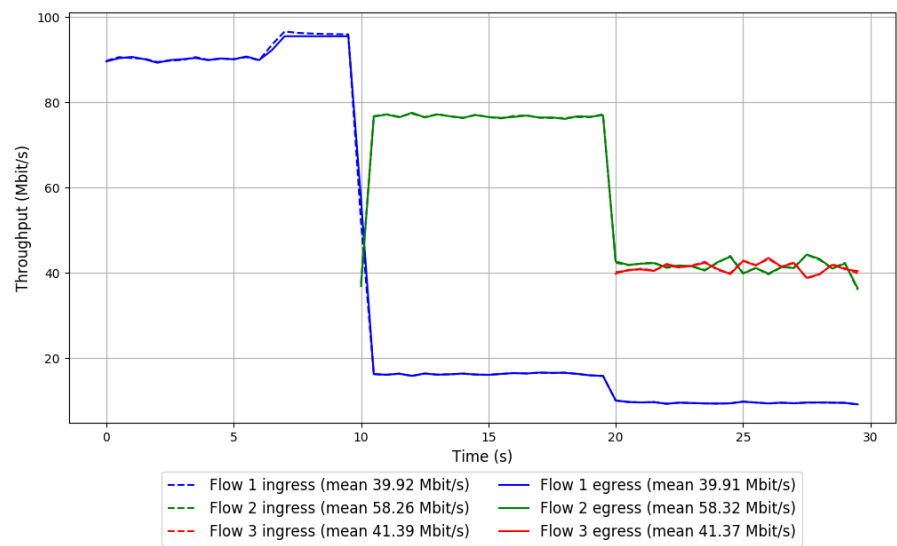


Run 5: Statistics of Copa

Start at: 2018-04-17 17:32:00
End at: 2018-04-17 17:32:30
Local clock offset: -5.996 ms
Remote clock offset: -7.002 ms

```
# Below is generated by plot.py at 2018-04-17 20:12:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.43 Mbit/s
95th percentile per-packet one-way delay: 22.896 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 39.91 Mbit/s
95th percentile per-packet one-way delay: 26.975 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 58.32 Mbit/s
95th percentile per-packet one-way delay: 5.600 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 41.37 Mbit/s
95th percentile per-packet one-way delay: 5.831 ms
Loss rate: 0.01%
```

Run 5: Report of Copa — Data Link

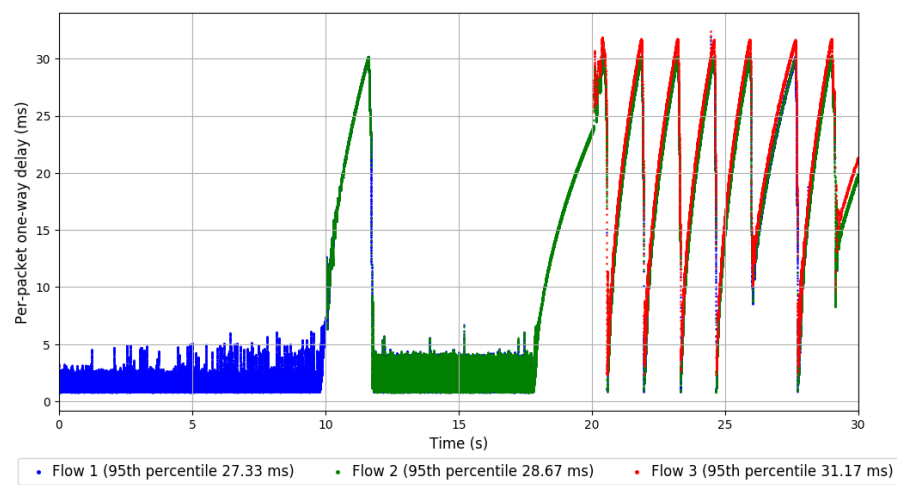
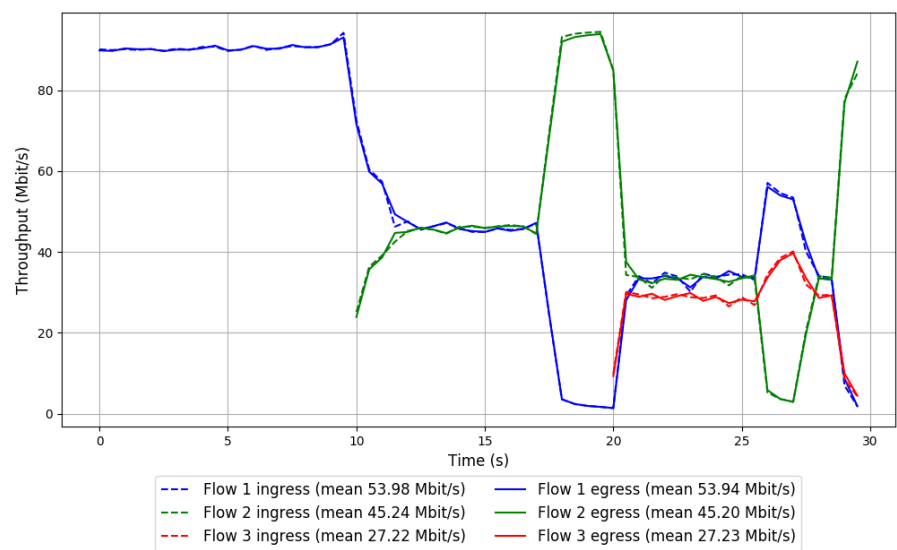


Run 6: Statistics of Copa

Start at: 2018-04-17 17:51:10
End at: 2018-04-17 17:51:40
Local clock offset: -6.028 ms
Remote clock offset: -6.929 ms

```
# Below is generated by plot.py at 2018-04-17 20:12:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.06 Mbit/s
95th percentile per-packet one-way delay: 28.819 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 53.94 Mbit/s
95th percentile per-packet one-way delay: 27.331 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 45.20 Mbit/s
95th percentile per-packet one-way delay: 28.670 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 27.23 Mbit/s
95th percentile per-packet one-way delay: 31.171 ms
Loss rate: 0.03%
```

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-04-17 18:10:22

End at: 2018-04-17 18:10:52

Local clock offset: -5.782 ms

Remote clock offset: -6.47 ms

Below is generated by plot.py at 2018-04-17 20:12:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.77 Mbit/s

95th percentile per-packet one-way delay: 27.808 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 61.90 Mbit/s

95th percentile per-packet one-way delay: 28.384 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 27.05 Mbit/s

95th percentile per-packet one-way delay: 28.015 ms

Loss rate: 0.00%

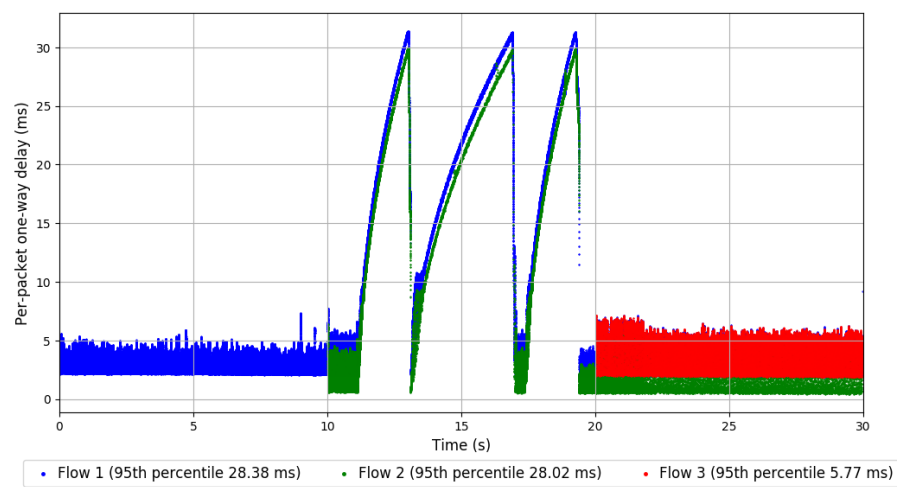
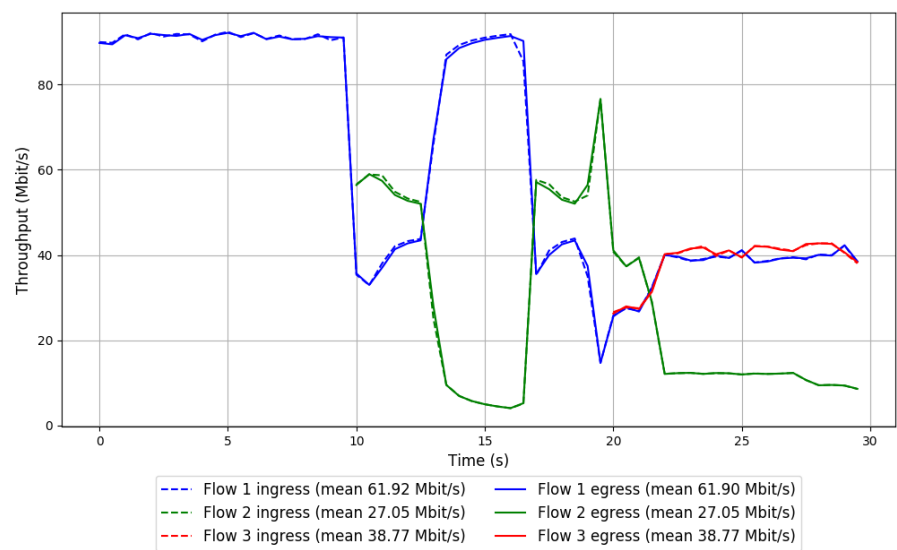
-- Flow 3:

Average throughput: 38.77 Mbit/s

95th percentile per-packet one-way delay: 5.767 ms

Loss rate: 0.00%

Run 7: Report of Copa — Data Link

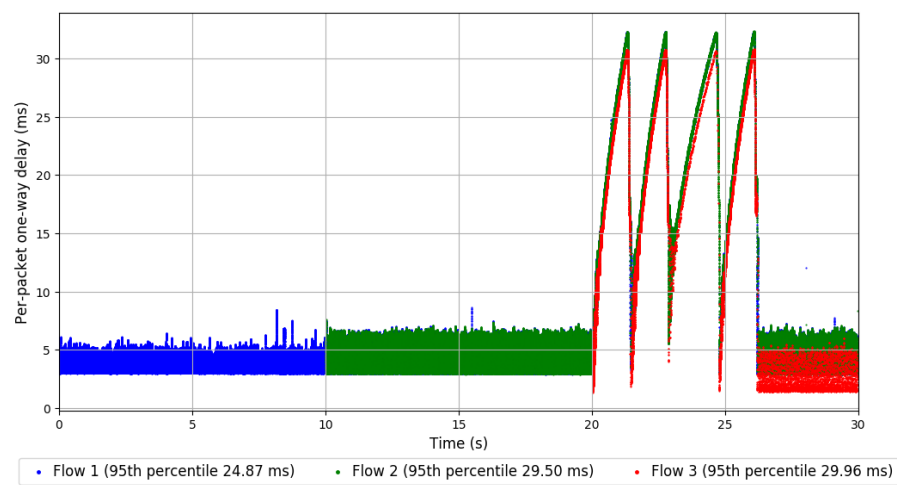
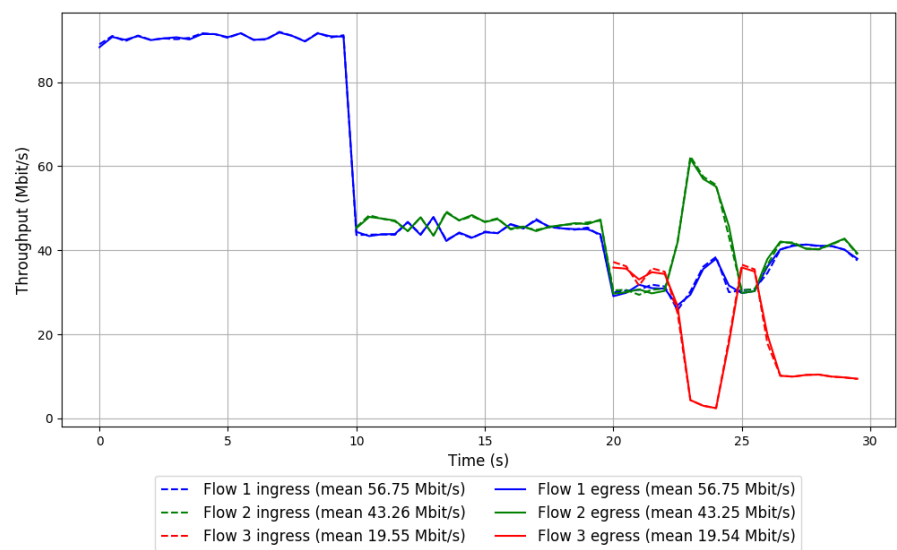


Run 8: Statistics of Copa

Start at: 2018-04-17 18:29:33
End at: 2018-04-17 18:30:03
Local clock offset: -6.489 ms
Remote clock offset: -1.255 ms

```
# Below is generated by plot.py at 2018-04-17 20:12:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.03 Mbit/s
95th percentile per-packet one-way delay: 28.201 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 56.75 Mbit/s
95th percentile per-packet one-way delay: 24.872 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 43.25 Mbit/s
95th percentile per-packet one-way delay: 29.496 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 19.54 Mbit/s
95th percentile per-packet one-way delay: 29.963 ms
Loss rate: 0.02%
```

Run 8: Report of Copa — Data Link

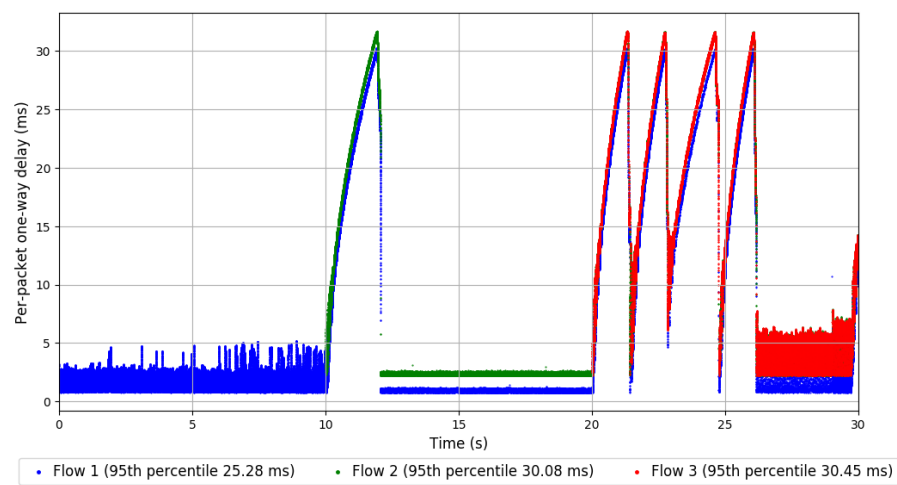
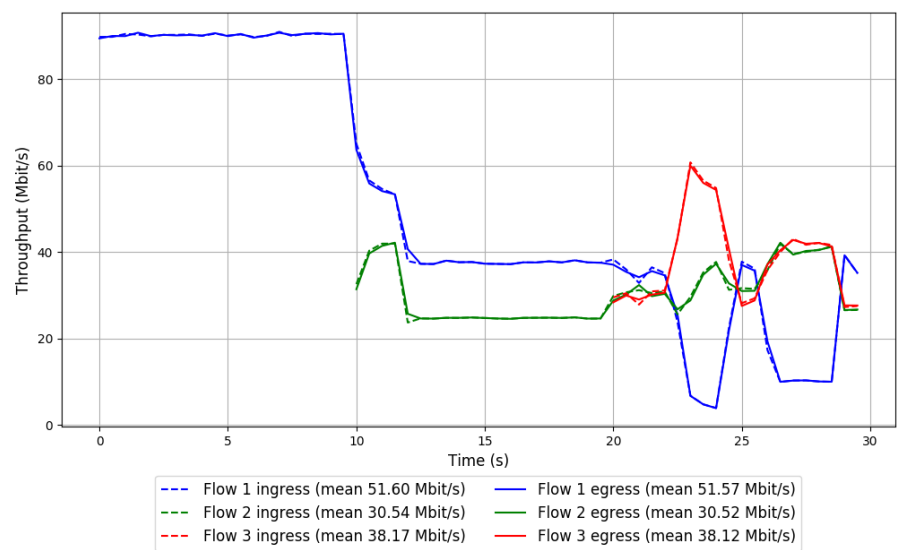


Run 9: Statistics of Copa

Start at: 2018-04-17 18:48:45
End at: 2018-04-17 18:49:15
Local clock offset: -6.085 ms
Remote clock offset: 0.828 ms

Below is generated by plot.py at 2018-04-17 20:14:10
Datalink statistics
-- Total of 3 flows:
Average throughput: 84.57 Mbit/s
95th percentile per-packet one-way delay: 28.627 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 51.57 Mbit/s
95th percentile per-packet one-way delay: 25.278 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 30.52 Mbit/s
95th percentile per-packet one-way delay: 30.078 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 38.12 Mbit/s
95th percentile per-packet one-way delay: 30.448 ms
Loss rate: 0.01%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-04-17 19:08:33

End at: 2018-04-17 19:09:03

Local clock offset: -5.964 ms

Remote clock offset: 2.714 ms

Below is generated by plot.py at 2018-04-17 20:14:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.02 Mbit/s

95th percentile per-packet one-way delay: 28.043 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 48.74 Mbit/s

95th percentile per-packet one-way delay: 24.913 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 46.79 Mbit/s

95th percentile per-packet one-way delay: 28.727 ms

Loss rate: 0.01%

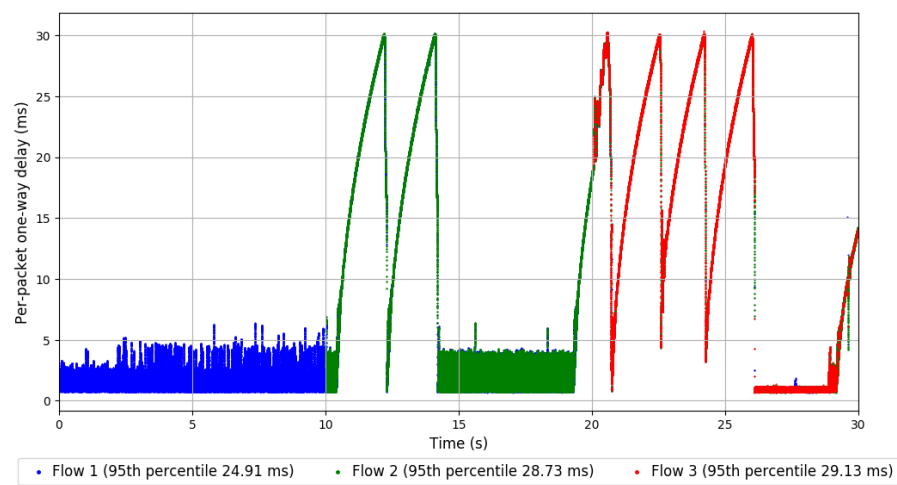
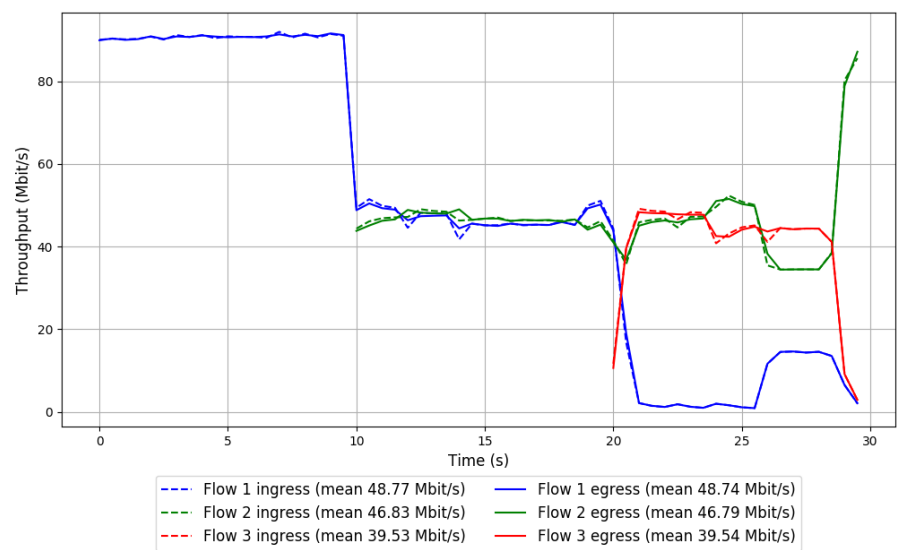
-- Flow 3:

Average throughput: 39.54 Mbit/s

95th percentile per-packet one-way delay: 29.129 ms

Loss rate: 0.01%

Run 10: Report of Copa — Data Link

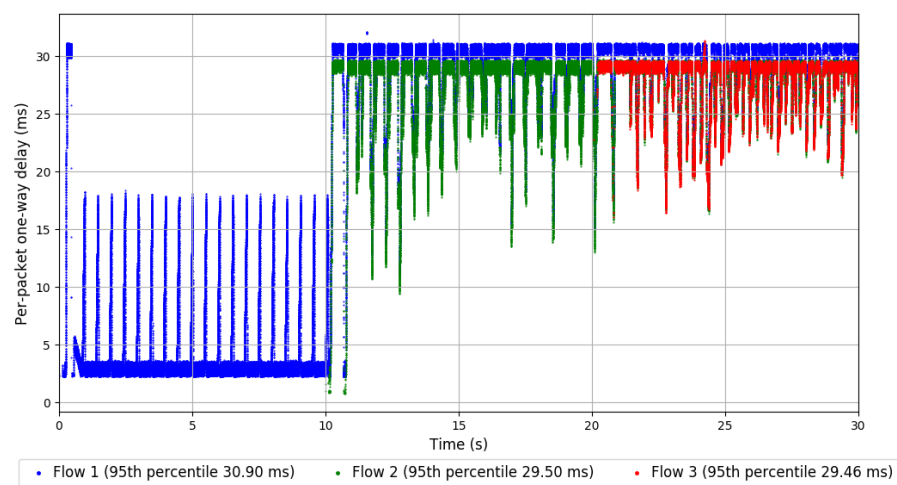
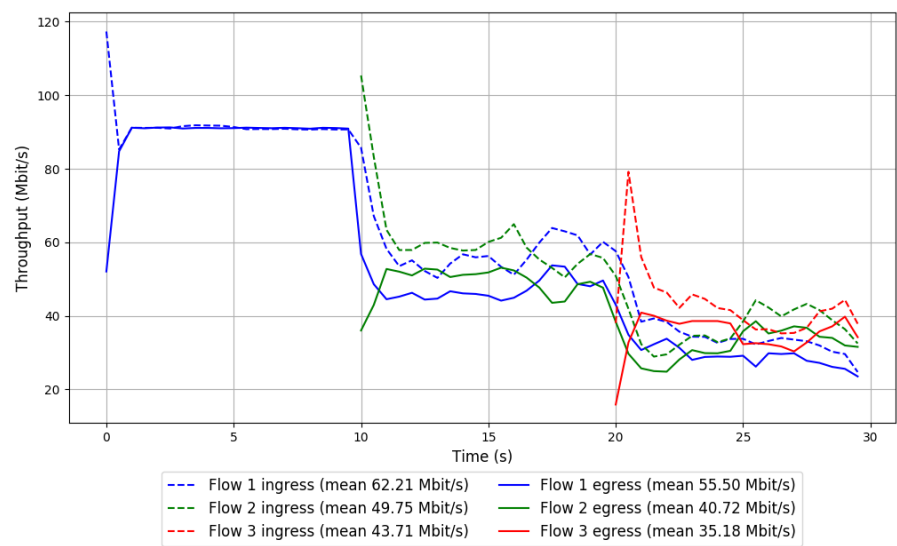


Run 1: Statistics of FillP

Start at: 2018-04-17 16:23:05
End at: 2018-04-17 16:23:35
Local clock offset: -6.175 ms
Remote clock offset: -7.368 ms

Below is generated by plot.py at 2018-04-17 20:14:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 94.28 Mbit/s
95th percentile per-packet one-way delay: 30.817 ms
Loss rate: 14.08%
-- Flow 1:
Average throughput: 55.50 Mbit/s
95th percentile per-packet one-way delay: 30.898 ms
Loss rate: 10.70%
-- Flow 2:
Average throughput: 40.72 Mbit/s
95th percentile per-packet one-way delay: 29.497 ms
Loss rate: 18.04%
-- Flow 3:
Average throughput: 35.18 Mbit/s
95th percentile per-packet one-way delay: 29.458 ms
Loss rate: 19.50%

Run 1: Report of FillP — Data Link

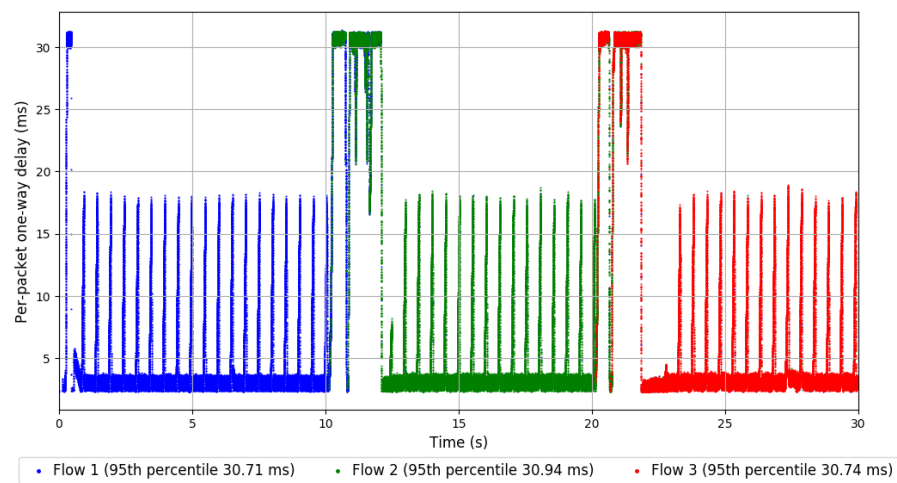
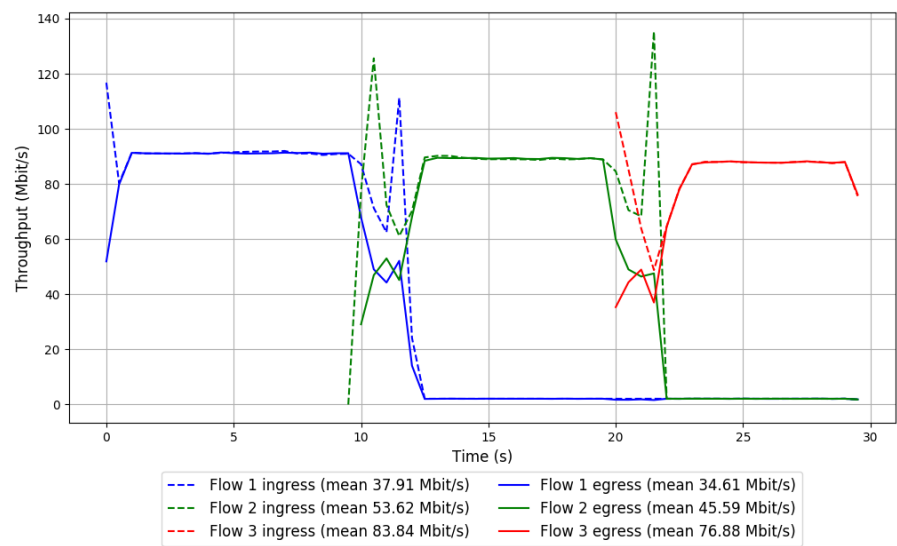


Run 2: Statistics of FillP

Start at: 2018-04-17 16:42:16
End at: 2018-04-17 16:42:46
Local clock offset: -6.174 ms
Remote clock offset: -6.807 ms

Below is generated by plot.py at 2018-04-17 20:14:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 90.46 Mbit/s
95th percentile per-packet one-way delay: 30.863 ms
Loss rate: 10.80%
-- Flow 1:
Average throughput: 34.61 Mbit/s
95th percentile per-packet one-way delay: 30.707 ms
Loss rate: 8.69%
-- Flow 2:
Average throughput: 45.59 Mbit/s
95th percentile per-packet one-way delay: 30.943 ms
Loss rate: 15.00%
-- Flow 3:
Average throughput: 76.88 Mbit/s
95th percentile per-packet one-way delay: 30.740 ms
Loss rate: 8.30%

Run 2: Report of FillP — Data Link

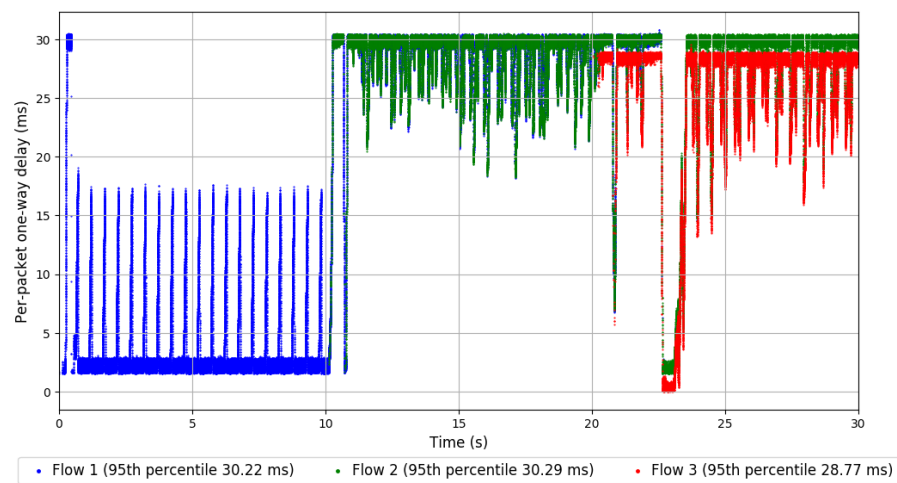
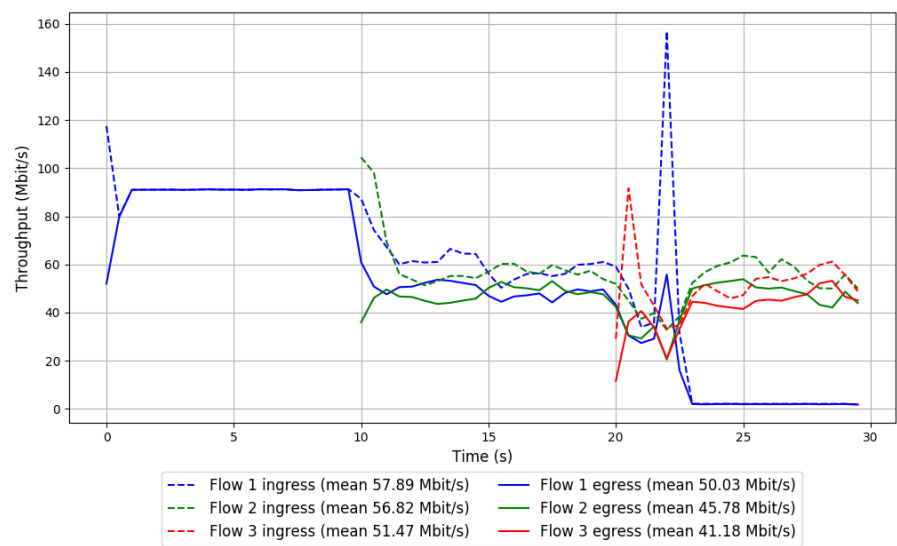


Run 3: Statistics of FillP

Start at: 2018-04-17 17:01:29
End at: 2018-04-17 17:01:59
Local clock offset: -5.332 ms
Remote clock offset: -6.792 ms

Below is generated by plot.py at 2018-04-17 20:14:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 94.15 Mbit/s
95th percentile per-packet one-way delay: 30.234 ms
Loss rate: 16.44%
-- Flow 1:
Average throughput: 50.03 Mbit/s
95th percentile per-packet one-way delay: 30.217 ms
Loss rate: 13.50%
-- Flow 2:
Average throughput: 45.78 Mbit/s
95th percentile per-packet one-way delay: 30.285 ms
Loss rate: 19.32%
-- Flow 3:
Average throughput: 41.18 Mbit/s
95th percentile per-packet one-way delay: 28.767 ms
Loss rate: 19.99%

Run 3: Report of FillP — Data Link

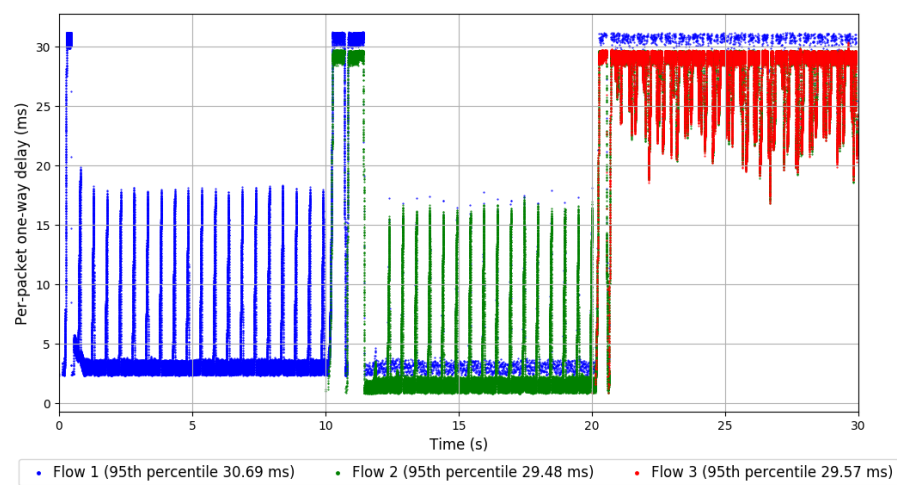
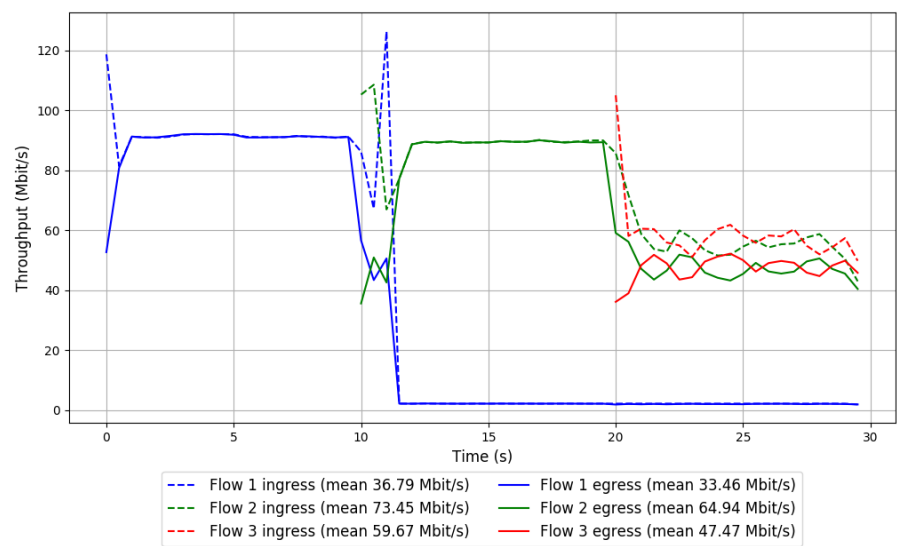


Run 4: Statistics of FillP

Start at: 2018-04-17 17:20:40
End at: 2018-04-17 17:21:10
Local clock offset: -6.15 ms
Remote clock offset: -6.923 ms

Below is generated by plot.py at 2018-04-17 20:14:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 92.46 Mbit/s
95th percentile per-packet one-way delay: 29.557 ms
Loss rate: 12.28%
-- Flow 1:
Average throughput: 33.46 Mbit/s
95th percentile per-packet one-way delay: 30.689 ms
Loss rate: 9.01%
-- Flow 2:
Average throughput: 64.94 Mbit/s
95th percentile per-packet one-way delay: 29.483 ms
Loss rate: 11.49%
-- Flow 3:
Average throughput: 47.47 Mbit/s
95th percentile per-packet one-way delay: 29.573 ms
Loss rate: 20.29%

Run 4: Report of FillP — Data Link

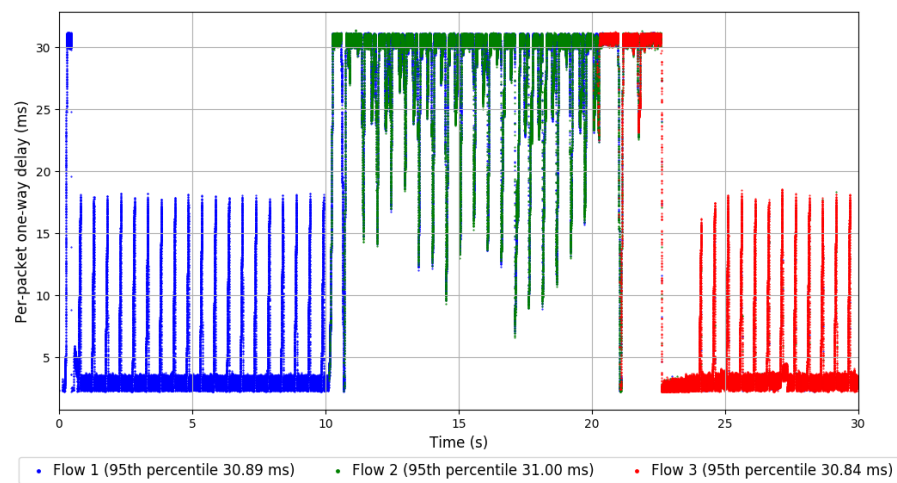
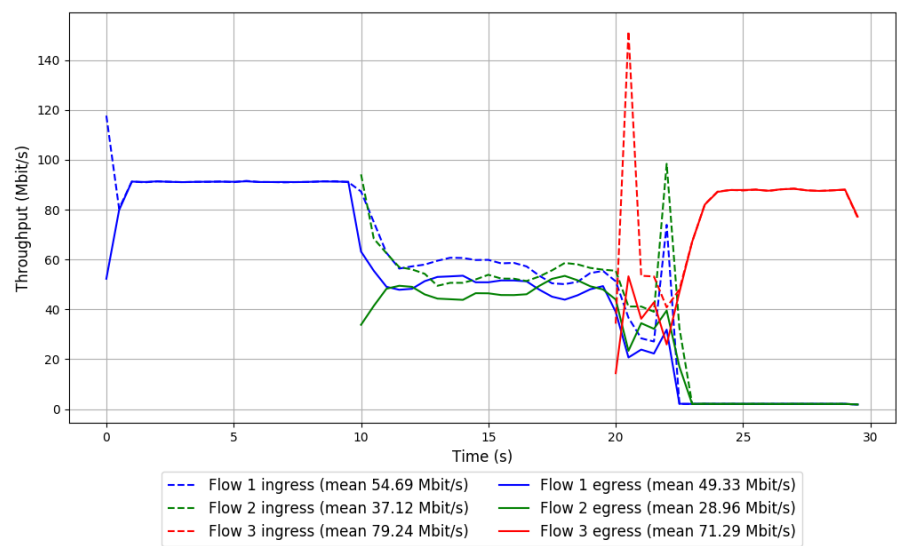


Run 5: Statistics of FillP

Start at: 2018-04-17 17:39:50
End at: 2018-04-17 17:40:20
Local clock offset: -6.042 ms
Remote clock offset: -6.996 ms

Below is generated by plot.py at 2018-04-17 20:14:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 92.17 Mbit/s
95th percentile per-packet one-way delay: 30.928 ms
Loss rate: 12.76%
-- Flow 1:
Average throughput: 49.33 Mbit/s
95th percentile per-packet one-way delay: 30.887 ms
Loss rate: 9.80%
-- Flow 2:
Average throughput: 28.96 Mbit/s
95th percentile per-packet one-way delay: 31.004 ms
Loss rate: 21.99%
-- Flow 3:
Average throughput: 71.29 Mbit/s
95th percentile per-packet one-way delay: 30.843 ms
Loss rate: 10.25%

Run 5: Report of FillP — Data Link

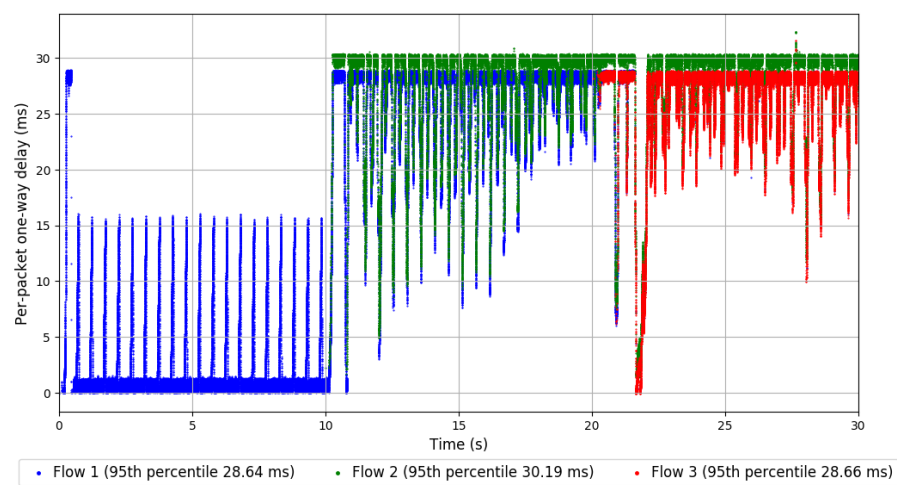
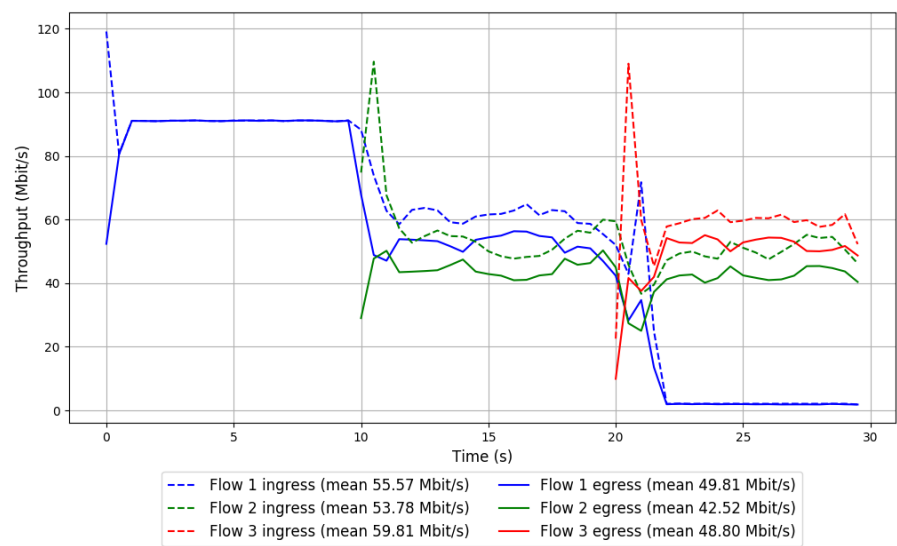


Run 6: Statistics of FillP

Start at: 2018-04-17 17:59:01
End at: 2018-04-17 17:59:31
Local clock offset: -5.122 ms
Remote clock offset: -6.906 ms

Below is generated by plot.py at 2018-04-17 20:14:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 94.30 Mbit/s
95th percentile per-packet one-way delay: 30.057 ms
Loss rate: 15.12%
-- Flow 1:
Average throughput: 49.81 Mbit/s
95th percentile per-packet one-way delay: 28.635 ms
Loss rate: 10.27%
-- Flow 2:
Average throughput: 42.52 Mbit/s
95th percentile per-packet one-way delay: 30.193 ms
Loss rate: 20.82%
-- Flow 3:
Average throughput: 48.80 Mbit/s
95th percentile per-packet one-way delay: 28.662 ms
Loss rate: 18.42%

Run 6: Report of FillP — Data Link

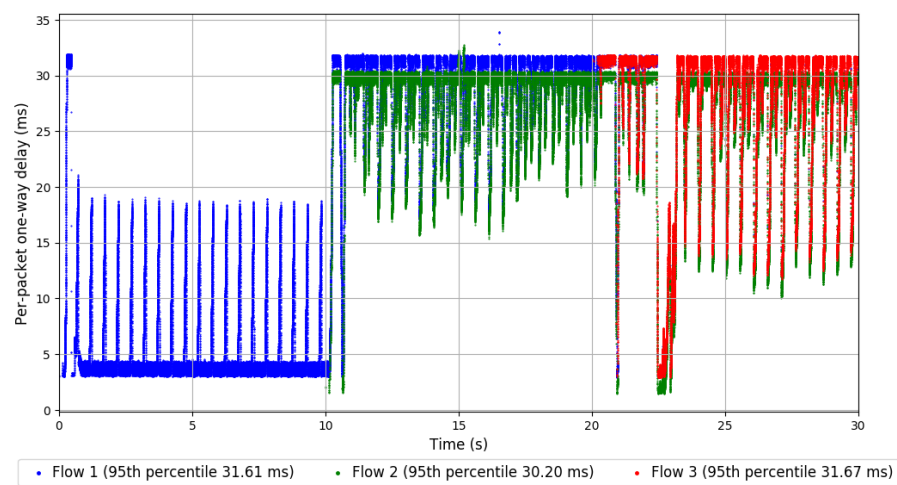
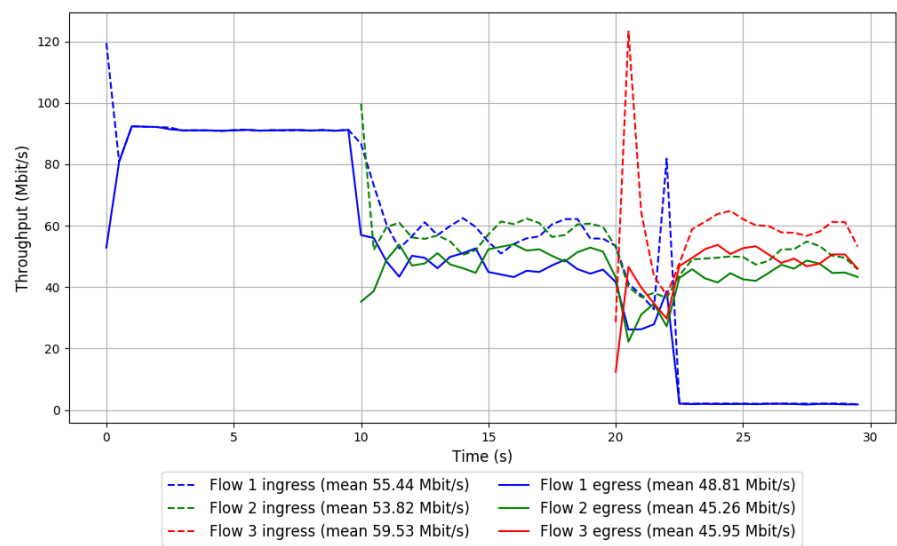


Run 7: Statistics of FillP

Start at: 2018-04-17 18:18:14
End at: 2018-04-17 18:18:44
Local clock offset: -6.603 ms
Remote clock offset: -3.443 ms

Below is generated by plot.py at 2018-04-17 20:15:31
Datalink statistics
-- Total of 3 flows:
Average throughput: 94.18 Mbit/s
95th percentile per-packet one-way delay: 31.578 ms
Loss rate: 15.09%
-- Flow 1:
Average throughput: 48.81 Mbit/s
95th percentile per-packet one-way delay: 31.611 ms
Loss rate: 11.88%
-- Flow 2:
Average throughput: 45.26 Mbit/s
95th percentile per-packet one-way delay: 30.204 ms
Loss rate: 15.79%
-- Flow 3:
Average throughput: 45.95 Mbit/s
95th percentile per-packet one-way delay: 31.666 ms
Loss rate: 22.81%

Run 7: Report of FillP — Data Link

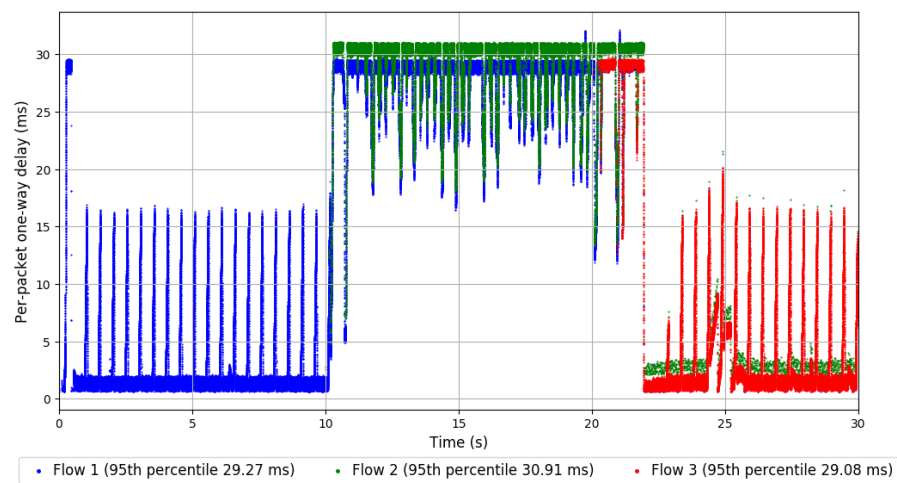
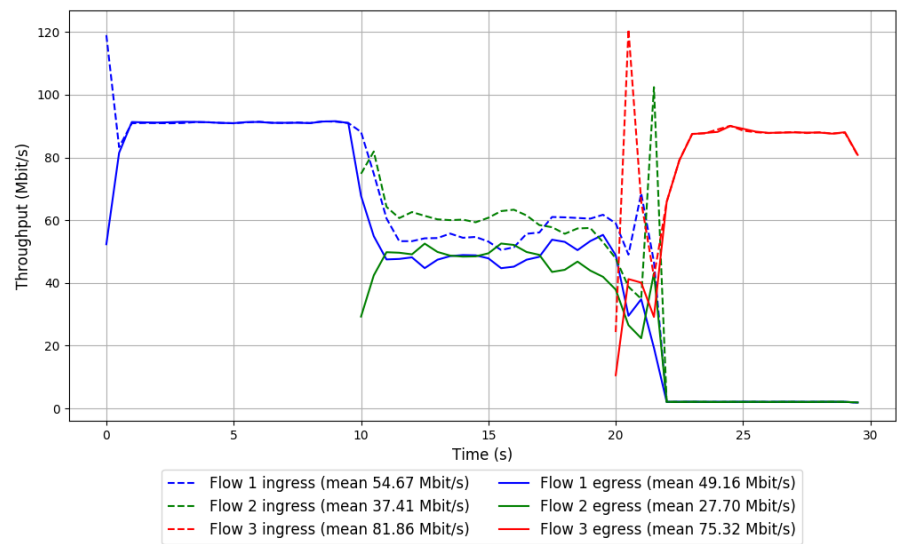


Run 8: Statistics of FillP

Start at: 2018-04-17 18:37:24
End at: 2018-04-17 18:37:54
Local clock offset: -5.926 ms
Remote clock offset: -0.351 ms

Below is generated by plot.py at 2018-04-17 20:15:31
Datalink statistics
-- Total of 3 flows:
Average throughput: 92.51 Mbit/s
95th percentile per-packet one-way delay: 30.701 ms
Loss rate: 13.26%
-- Flow 1:
Average throughput: 49.16 Mbit/s
95th percentile per-packet one-way delay: 29.270 ms
Loss rate: 10.05%
-- Flow 2:
Average throughput: 27.70 Mbit/s
95th percentile per-packet one-way delay: 30.907 ms
Loss rate: 25.90%
-- Flow 3:
Average throughput: 75.32 Mbit/s
95th percentile per-packet one-way delay: 29.084 ms
Loss rate: 8.12%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-04-17 18:57:13

End at: 2018-04-17 18:57:43

Local clock offset: -5.286 ms

Remote clock offset: 1.68 ms

Below is generated by plot.py at 2018-04-17 20:15:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.40 Mbit/s

95th percentile per-packet one-way delay: 28.687 ms

Loss rate: 14.63%

-- Flow 1:

Average throughput: 56.35 Mbit/s

95th percentile per-packet one-way delay: 28.659 ms

Loss rate: 10.38%

-- Flow 2:

Average throughput: 39.77 Mbit/s

95th percentile per-packet one-way delay: 28.678 ms

Loss rate: 18.54%

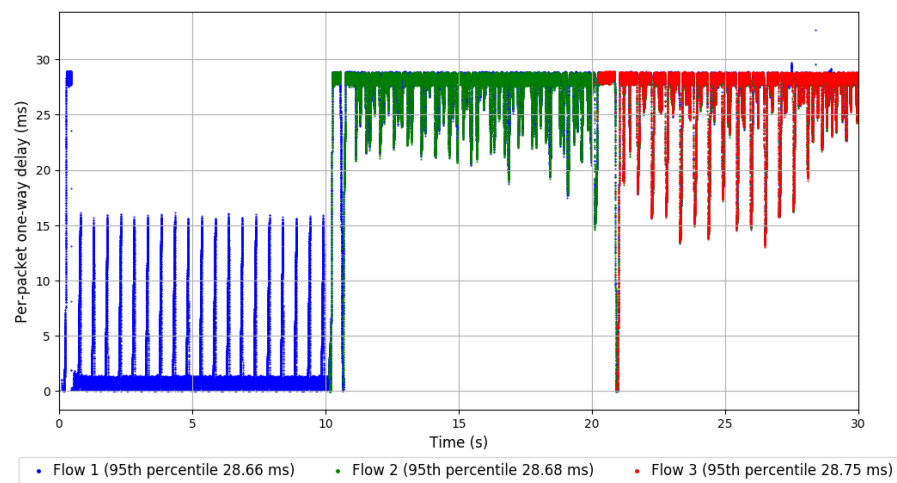
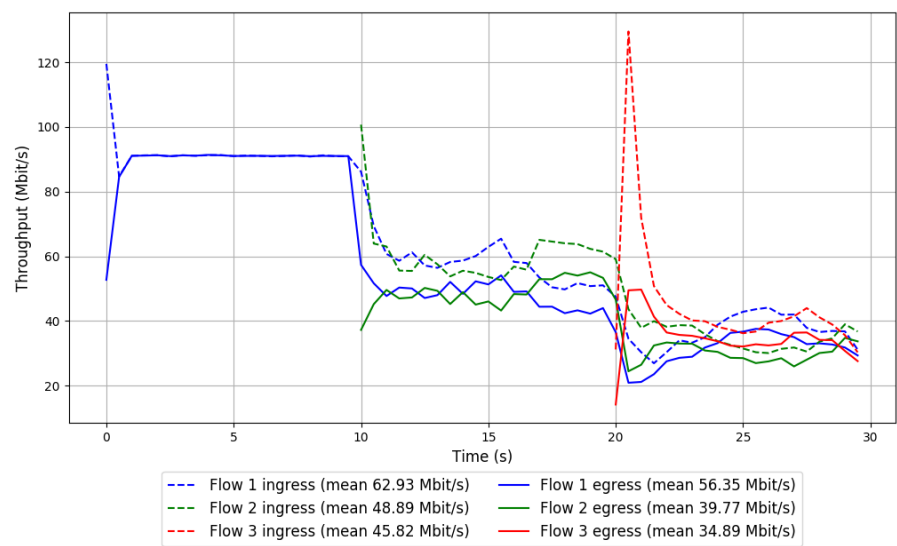
-- Flow 3:

Average throughput: 34.89 Mbit/s

95th percentile per-packet one-way delay: 28.748 ms

Loss rate: 23.87%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-04-17 19:16:25

End at: 2018-04-17 19:16:55

Local clock offset: -5.18 ms

Remote clock offset: 3.414 ms

Below is generated by plot.py at 2018-04-17 20:15:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.31 Mbit/s

95th percentile per-packet one-way delay: 30.101 ms

Loss rate: 14.15%

-- Flow 1:

Average throughput: 63.04 Mbit/s

95th percentile per-packet one-way delay: 28.616 ms

Loss rate: 9.77%

-- Flow 2:

Average throughput: 27.69 Mbit/s

95th percentile per-packet one-way delay: 30.240 ms

Loss rate: 24.67%

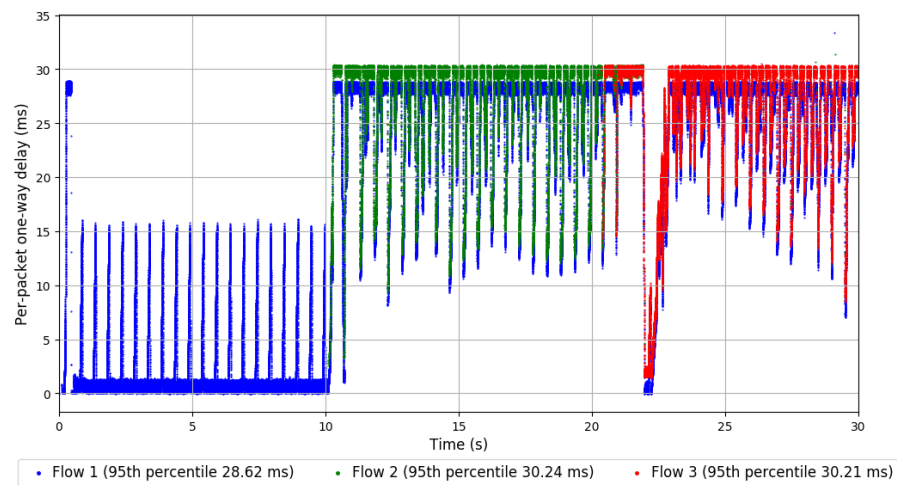
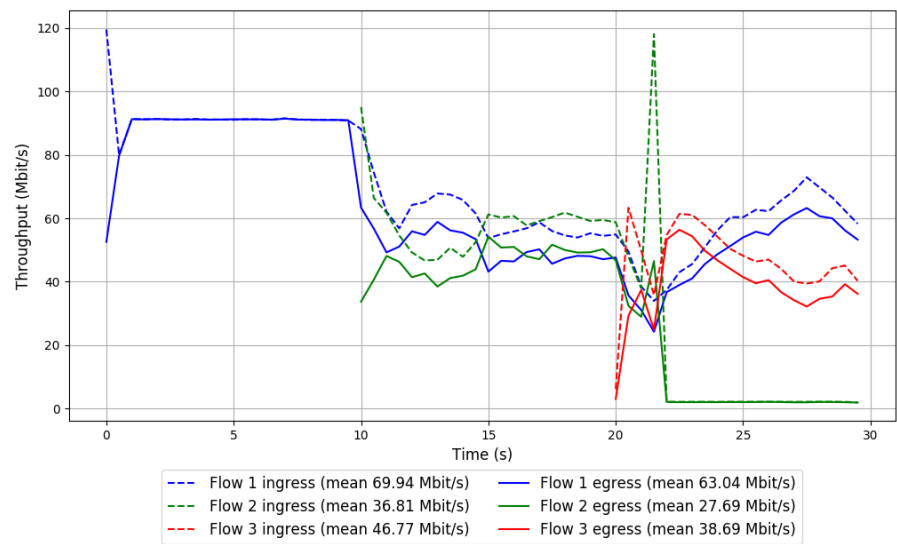
-- Flow 3:

Average throughput: 38.69 Mbit/s

95th percentile per-packet one-way delay: 30.206 ms

Loss rate: 17.27%

Run 10: Report of FillP — Data Link

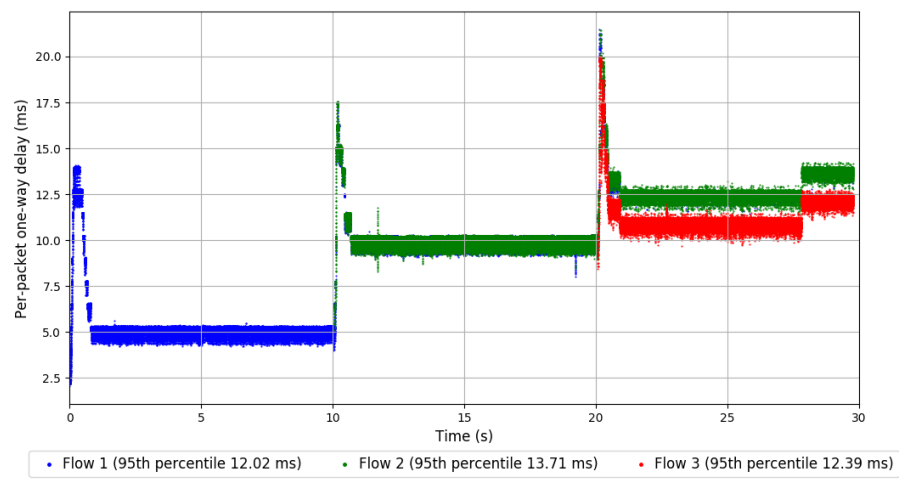
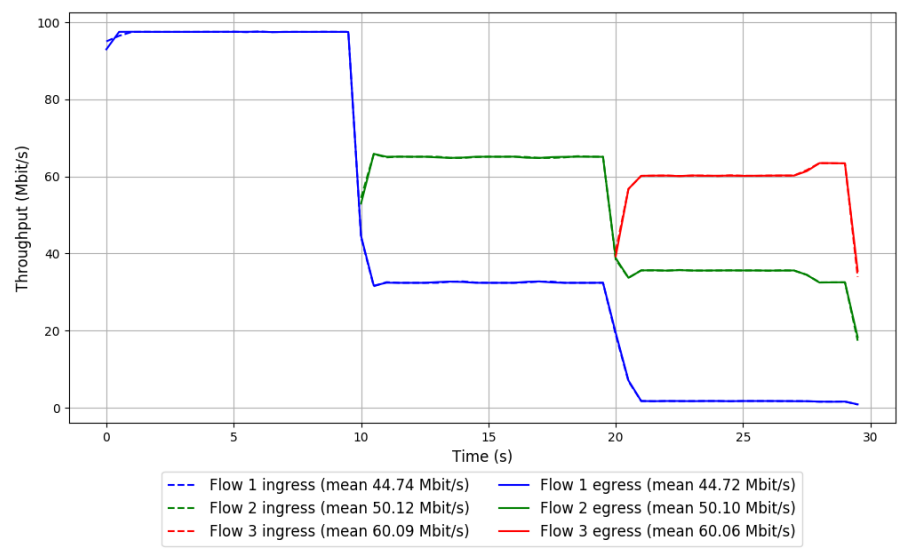


Run 1: Statistics of Indigo-1-32

Start at: 2018-04-17 16:33:15
End at: 2018-04-17 16:33:45
Local clock offset: -6.088 ms
Remote clock offset: -7.063 ms

Below is generated by plot.py at 2018-04-17 20:15:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 97.45 Mbit/s
95th percentile per-packet one-way delay: 13.256 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 44.72 Mbit/s
95th percentile per-packet one-way delay: 12.017 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 50.10 Mbit/s
95th percentile per-packet one-way delay: 13.711 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 60.06 Mbit/s
95th percentile per-packet one-way delay: 12.395 ms
Loss rate: 0.00%

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



Run 2: Statistics of Indigo-1-32

Start at: 2018-04-17 16:52:27

End at: 2018-04-17 16:52:57

Local clock offset: -5.35 ms

Remote clock offset: -6.85 ms

Below is generated by plot.py at 2018-04-17 20:15:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.41 Mbit/s

95th percentile per-packet one-way delay: 12.983 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 44.76 Mbit/s

95th percentile per-packet one-way delay: 11.771 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 46.39 Mbit/s

95th percentile per-packet one-way delay: 11.539 ms

Loss rate: 0.00%

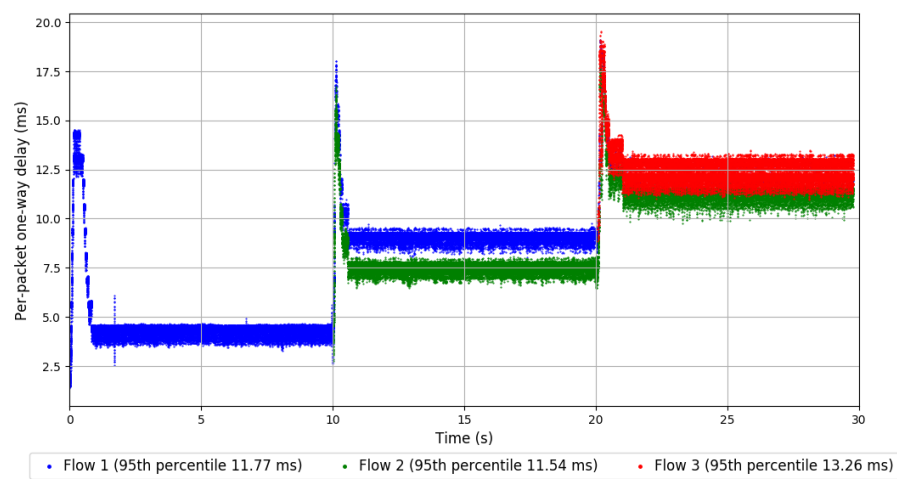
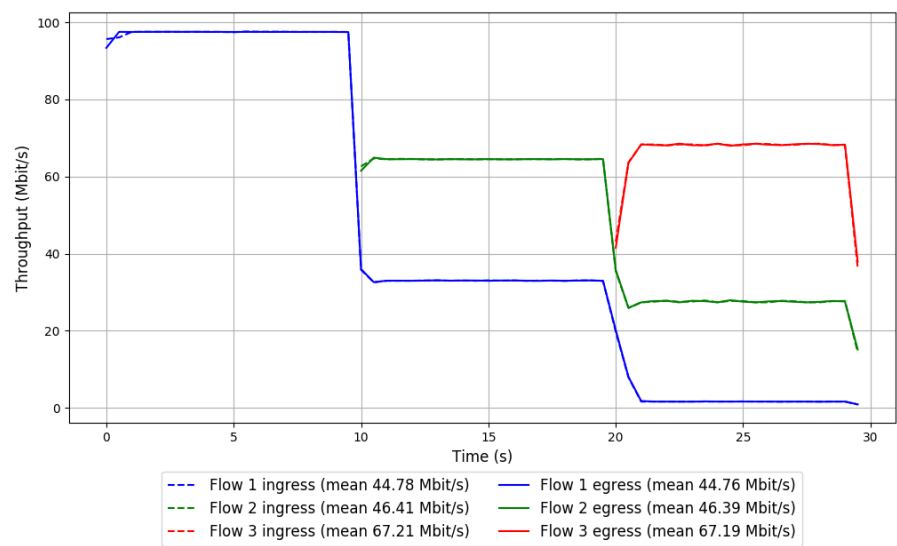
-- Flow 3:

Average throughput: 67.19 Mbit/s

95th percentile per-packet one-way delay: 13.261 ms

Loss rate: 0.00%

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

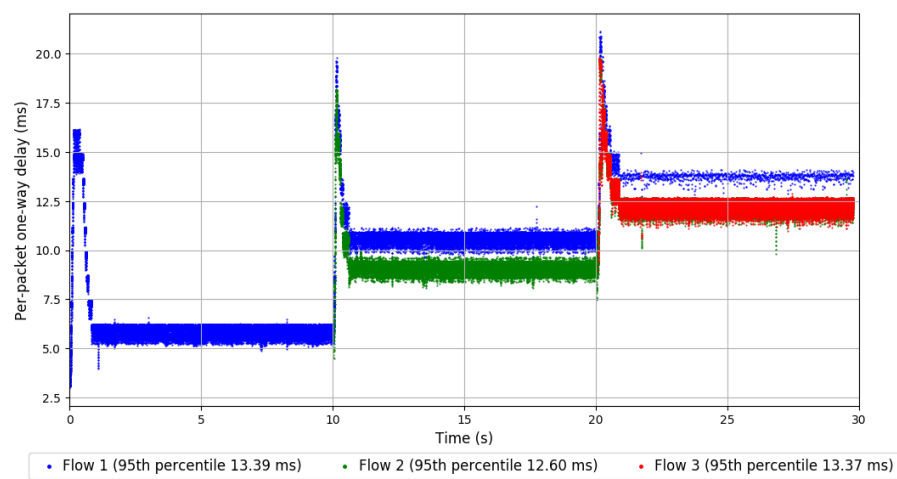
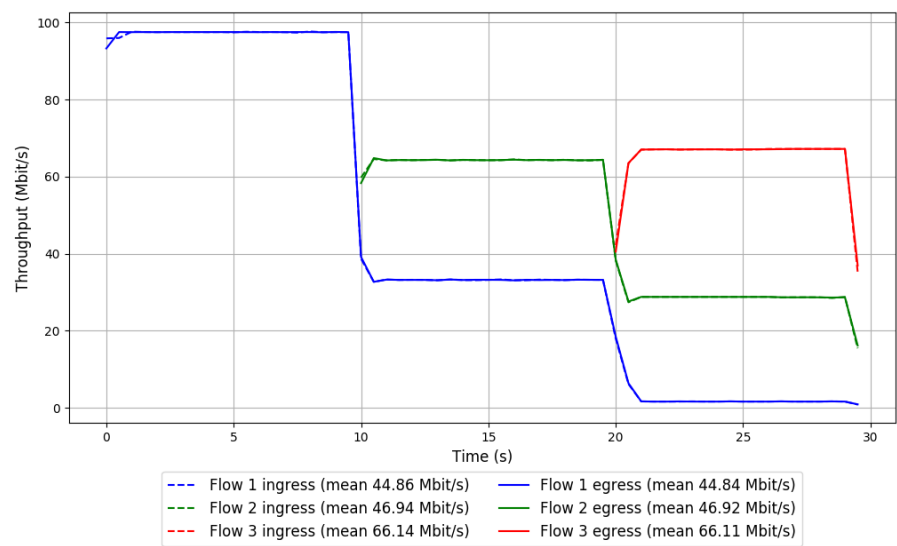


Run 3: Statistics of Indigo-1-32

Start at: 2018-04-17 17:11:38
End at: 2018-04-17 17:12:08
Local clock offset: -6.864 ms
Remote clock offset: -6.868 ms

Below is generated by plot.py at 2018-04-17 20:16:04
Datalink statistics
-- Total of 3 flows:
Average throughput: 97.46 Mbit/s
95th percentile per-packet one-way delay: 12.883 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 44.84 Mbit/s
95th percentile per-packet one-way delay: 13.389 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 46.92 Mbit/s
95th percentile per-packet one-way delay: 12.596 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 66.11 Mbit/s
95th percentile per-packet one-way delay: 13.369 ms
Loss rate: 0.00%

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

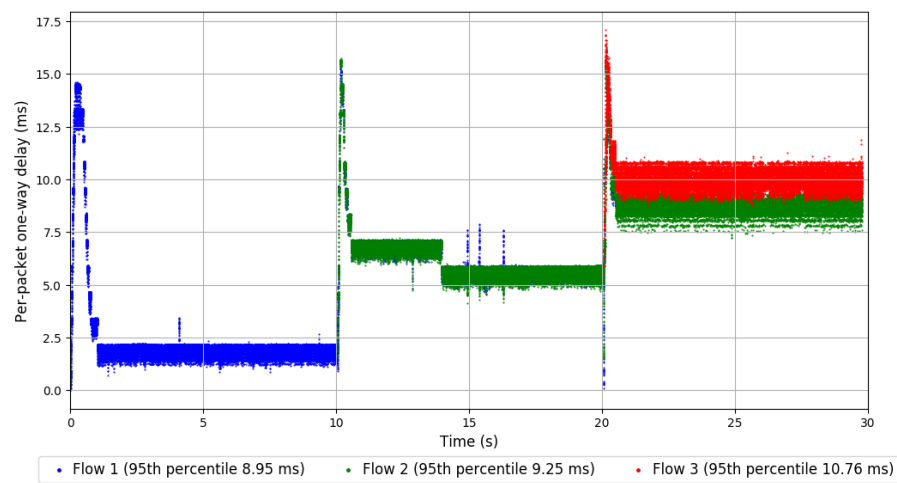
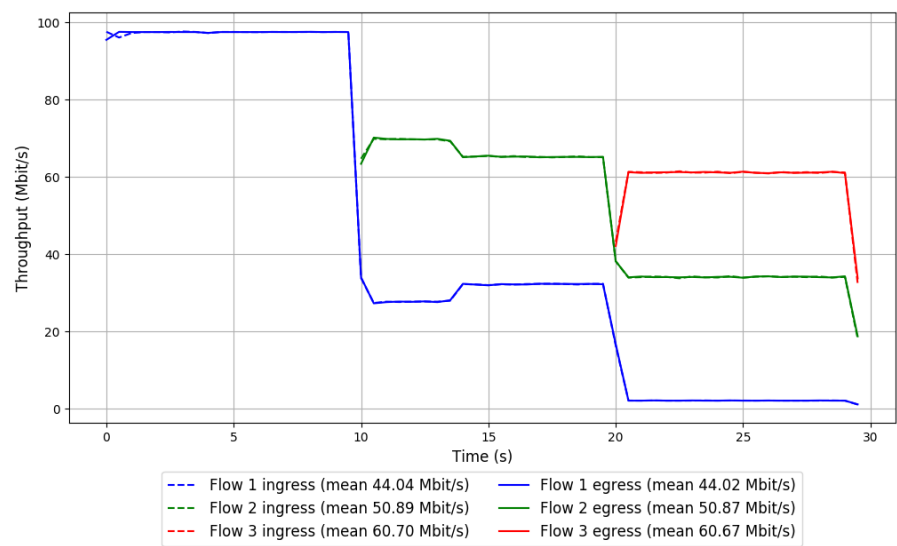


Run 4: Statistics of Indigo-1-32

Start at: 2018-04-17 17:30:50
End at: 2018-04-17 17:31:20
Local clock offset: -5.262 ms
Remote clock offset: -7.017 ms

Below is generated by plot.py at 2018-04-17 20:16:07
Datalink statistics
-- Total of 3 flows:
Average throughput: 97.48 Mbit/s
95th percentile per-packet one-way delay: 10.547 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 44.02 Mbit/s
95th percentile per-packet one-way delay: 8.949 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 50.87 Mbit/s
95th percentile per-packet one-way delay: 9.253 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 60.67 Mbit/s
95th percentile per-packet one-way delay: 10.758 ms
Loss rate: 0.00%

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



Run 5: Statistics of Indigo-1-32

Start at: 2018-04-17 17:50:00

End at: 2018-04-17 17:50:30

Local clock offset: -5.995 ms

Remote clock offset: -6.87 ms

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.48 Mbit/s

95th percentile per-packet one-way delay: 11.865 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 47.69 Mbit/s

95th percentile per-packet one-way delay: 10.189 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 42.81 Mbit/s

95th percentile per-packet one-way delay: 11.856 ms

Loss rate: 0.01%

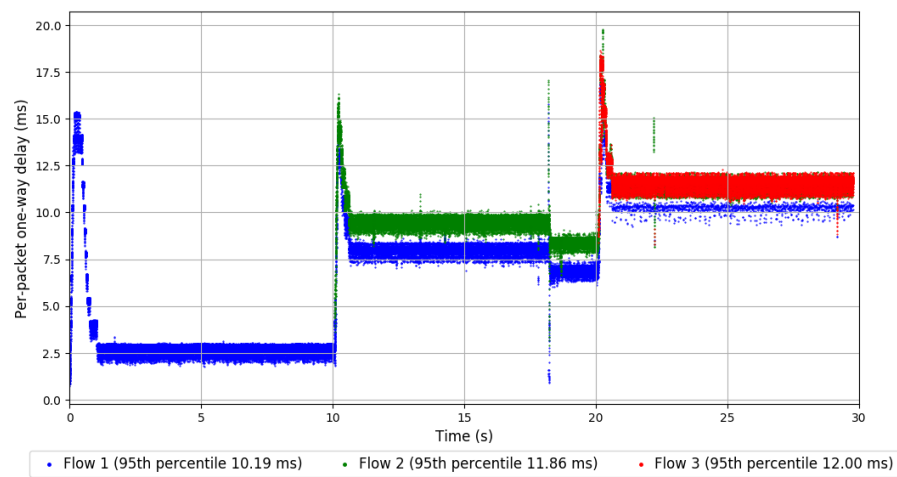
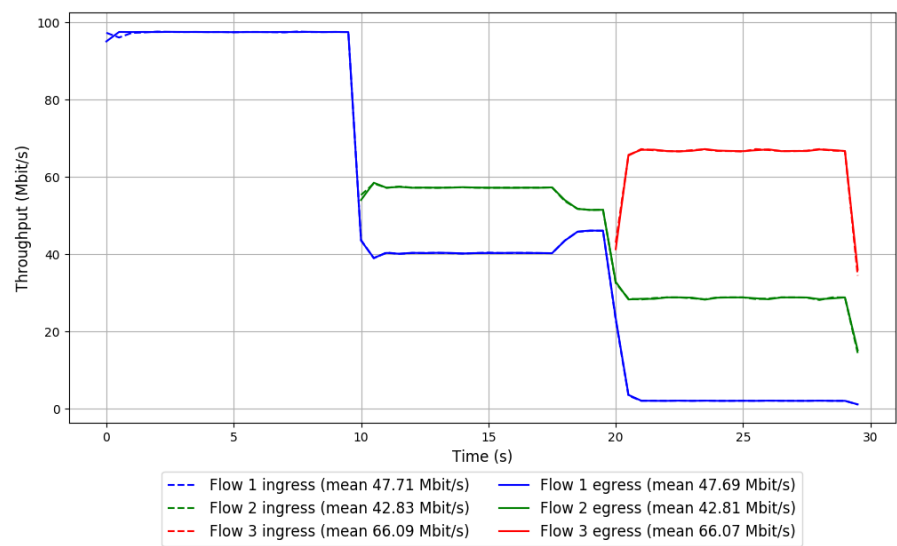
-- Flow 3:

Average throughput: 66.07 Mbit/s

95th percentile per-packet one-way delay: 12.001 ms

Loss rate: 0.00%

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

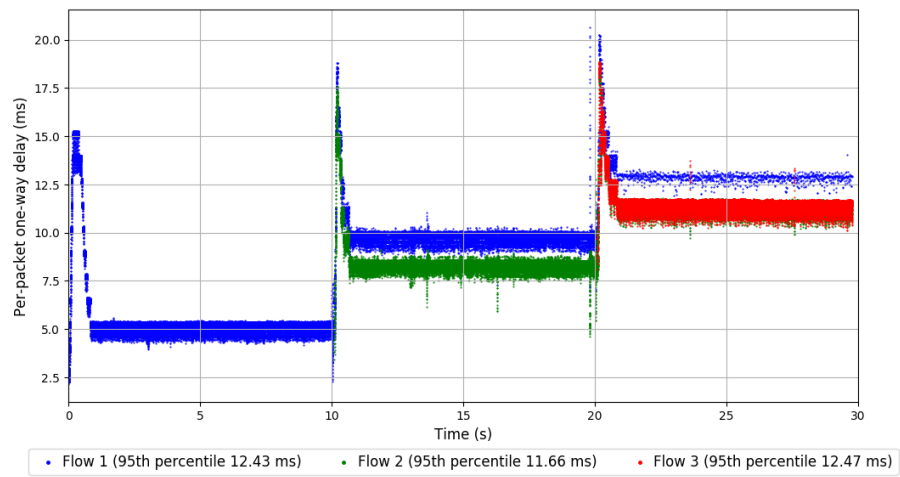
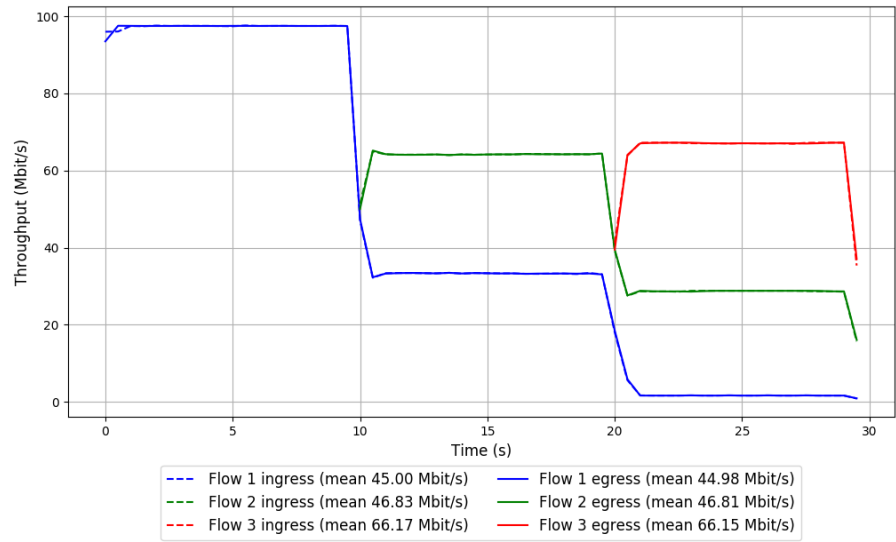


Run 6: Statistics of Indigo-1-32

Start at: 2018-04-17 18:09:12
End at: 2018-04-17 18:09:43
Local clock offset: -5.782 ms
Remote clock offset: -6.845 ms

Below is generated by plot.py at 2018-04-17 20:17:04
Datalink statistics
-- Total of 3 flows:
Average throughput: 97.41 Mbit/s
95th percentile per-packet one-way delay: 11.730 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 44.98 Mbit/s
95th percentile per-packet one-way delay: 12.429 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 46.81 Mbit/s
95th percentile per-packet one-way delay: 11.656 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 66.15 Mbit/s
95th percentile per-packet one-way delay: 12.472 ms
Loss rate: 0.00%

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

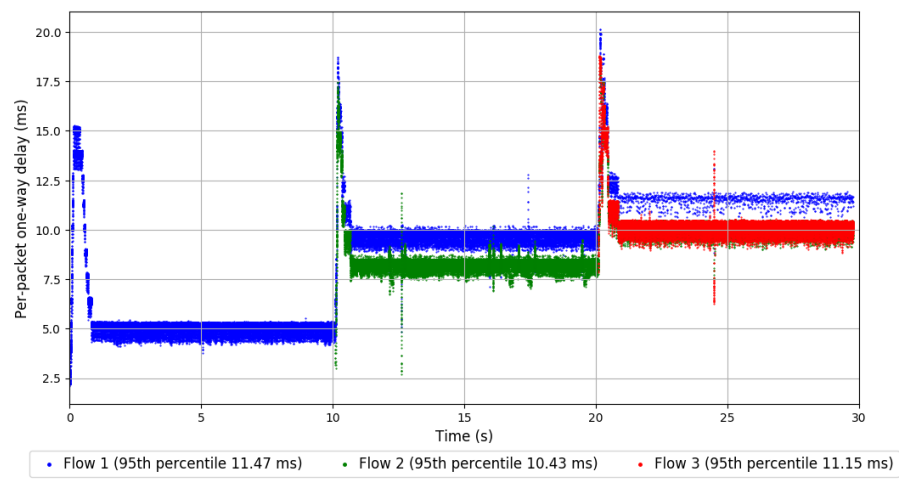
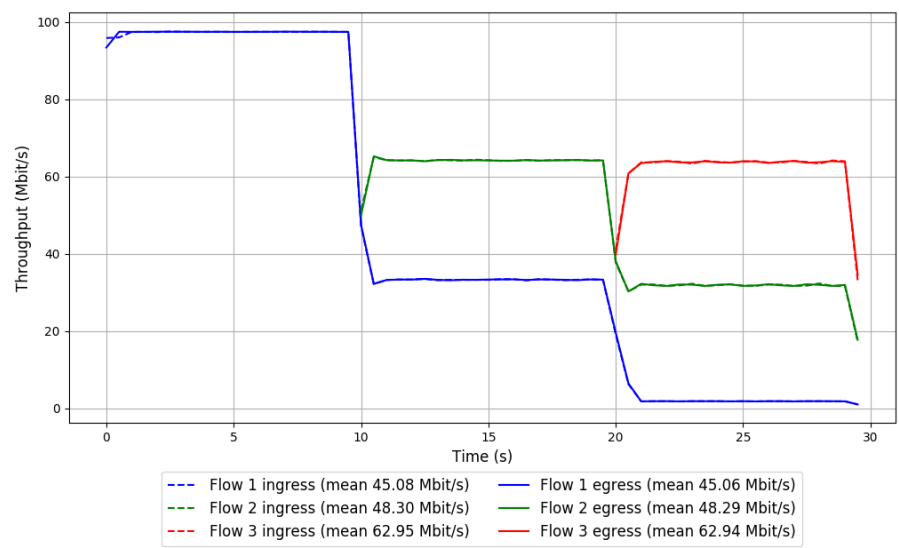


Run 7: Statistics of Indigo-1-32

Start at: 2018-04-17 18:28:24
End at: 2018-04-17 18:28:54
Local clock offset: -5.732 ms
Remote clock offset: -1.455 ms

Below is generated by plot.py at 2018-04-17 20:17:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 97.44 Mbit/s
95th percentile per-packet one-way delay: 10.988 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 45.06 Mbit/s
95th percentile per-packet one-way delay: 11.468 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 48.29 Mbit/s
95th percentile per-packet one-way delay: 10.431 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 62.94 Mbit/s
95th percentile per-packet one-way delay: 11.155 ms
Loss rate: 0.00%

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



Run 8: Statistics of Indigo-1-32

Start at: 2018-04-17 18:47:35

End at: 2018-04-17 18:48:05

Local clock offset: -6.799 ms

Remote clock offset: 0.801 ms

Below is generated by plot.py at 2018-04-17 20:17:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.50 Mbit/s

95th percentile per-packet one-way delay: 12.557 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 42.93 Mbit/s

95th percentile per-packet one-way delay: 11.714 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 49.77 Mbit/s

95th percentile per-packet one-way delay: 12.523 ms

Loss rate: 0.00%

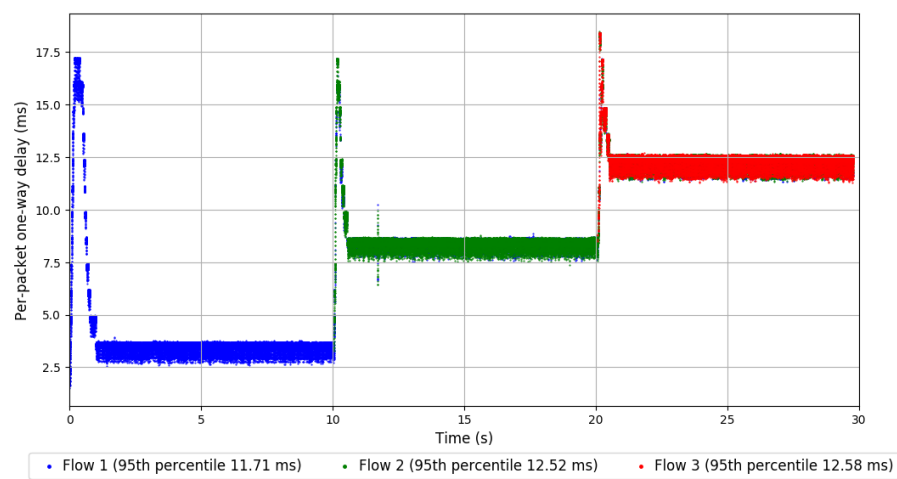
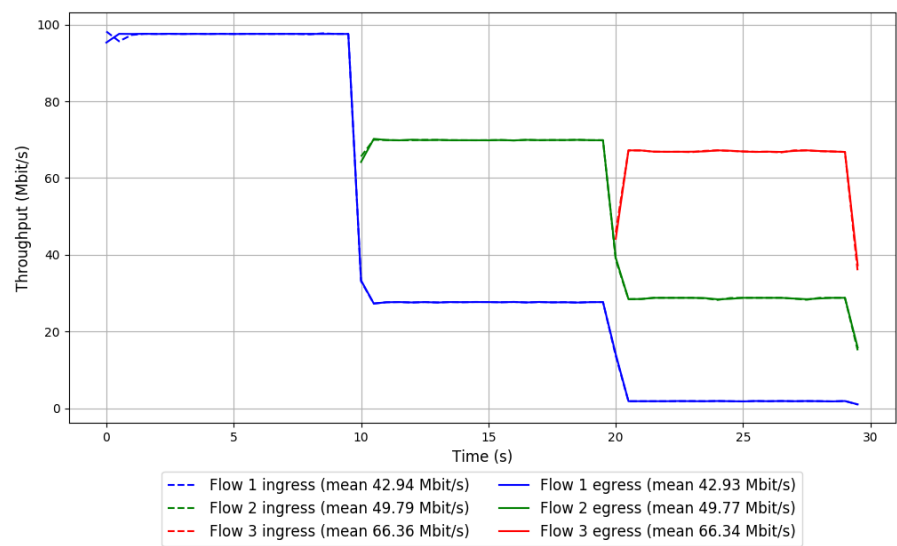
-- Flow 3:

Average throughput: 66.34 Mbit/s

95th percentile per-packet one-way delay: 12.579 ms

Loss rate: 0.00%

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



Run 9: Statistics of Indigo-1-32

Start at: 2018-04-17 19:07:23

End at: 2018-04-17 19:07:53

Local clock offset: -6.755 ms

Remote clock offset: 2.562 ms

Below is generated by plot.py at 2018-04-17 20:17:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.46 Mbit/s

95th percentile per-packet one-way delay: 14.453 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 44.86 Mbit/s

95th percentile per-packet one-way delay: 13.286 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 46.50 Mbit/s

95th percentile per-packet one-way delay: 12.995 ms

Loss rate: 0.00%

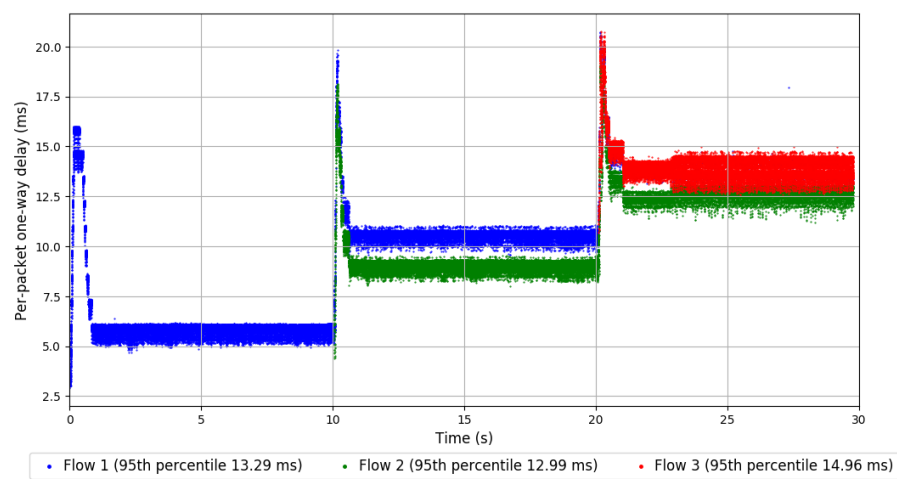
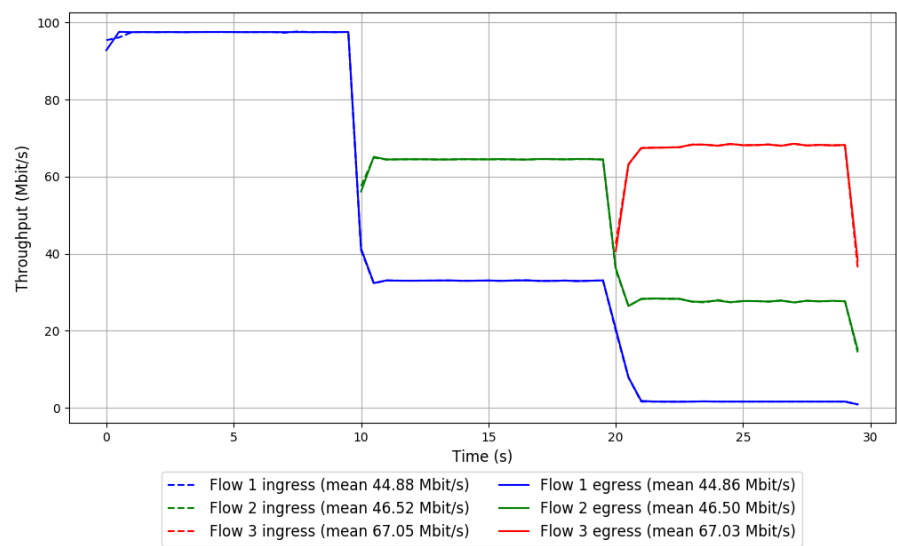
-- Flow 3:

Average throughput: 67.03 Mbit/s

95th percentile per-packet one-way delay: 14.957 ms

Loss rate: 0.00%

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

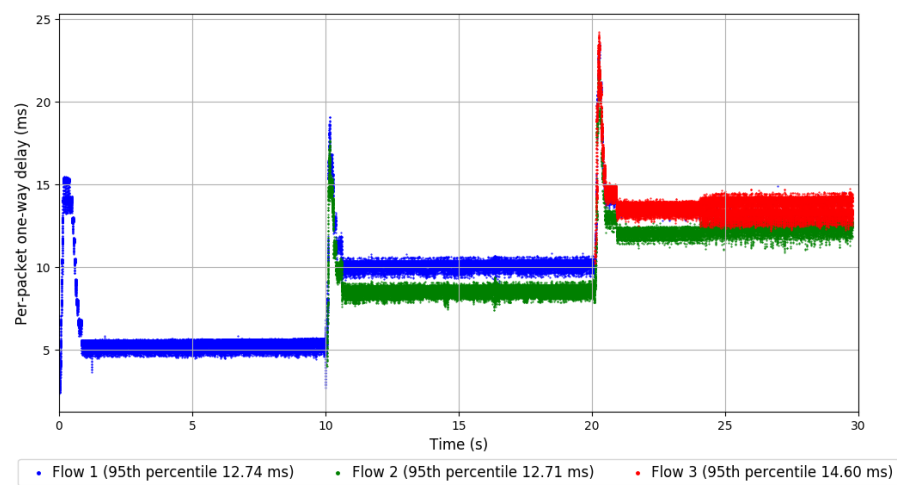
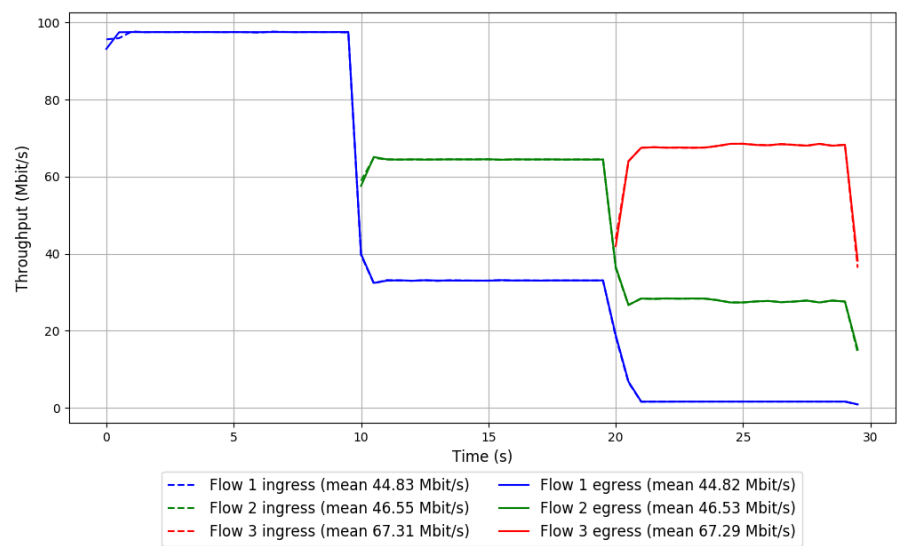


Run 10: Statistics of Indigo-1-32

Start at: 2018-04-17 19:26:36
End at: 2018-04-17 19:27:06
Local clock offset: -5.988 ms
Remote clock offset: -3.792 ms

Below is generated by plot.py at 2018-04-17 20:17:29
Datalink statistics
-- Total of 3 flows:
Average throughput: 97.46 Mbit/s
95th percentile per-packet one-way delay: 14.026 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 44.82 Mbit/s
95th percentile per-packet one-way delay: 12.743 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 46.53 Mbit/s
95th percentile per-packet one-way delay: 12.710 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 67.29 Mbit/s
95th percentile per-packet one-way delay: 14.595 ms
Loss rate: 0.00%

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

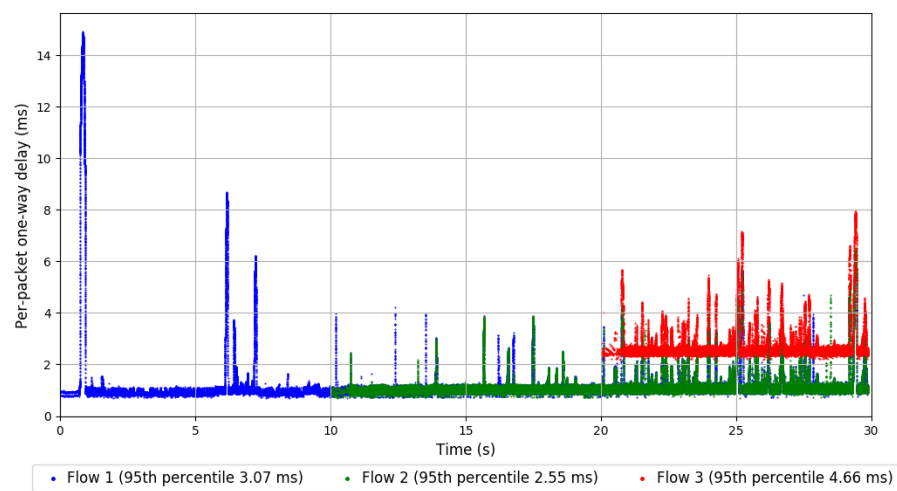
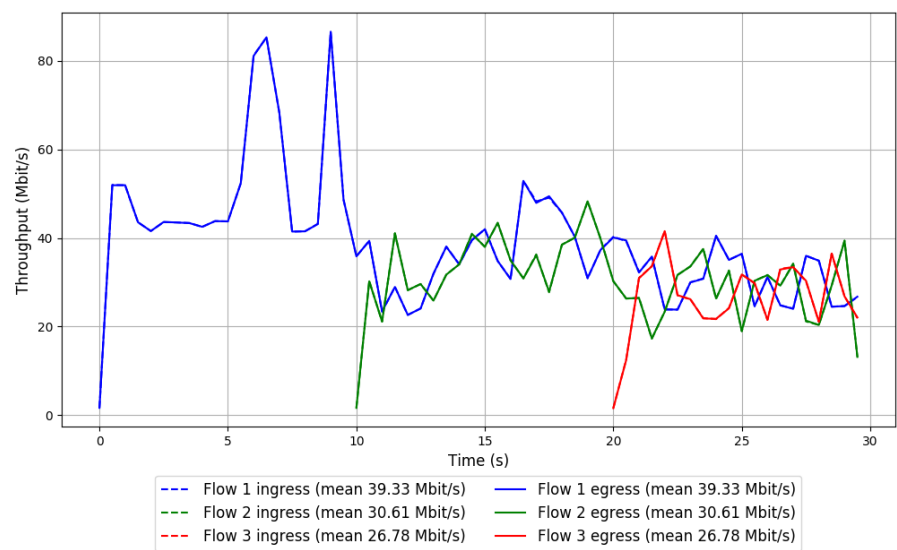


Run 1: Statistics of PCC-Vivace

Start at: 2018-04-17 16:21:57
End at: 2018-04-17 16:22:27
Local clock offset: -6.199 ms
Remote clock offset: -7.276 ms

Below is generated by plot.py at 2018-04-17 20:17:29
Datalink statistics
-- Total of 3 flows:
Average throughput: 68.51 Mbit/s
95th percentile per-packet one-way delay: 3.454 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 39.33 Mbit/s
95th percentile per-packet one-way delay: 3.070 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 30.61 Mbit/s
95th percentile per-packet one-way delay: 2.547 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 26.78 Mbit/s
95th percentile per-packet one-way delay: 4.656 ms
Loss rate: 0.00%

Run 1: Report of PCC-Vivace — Data Link

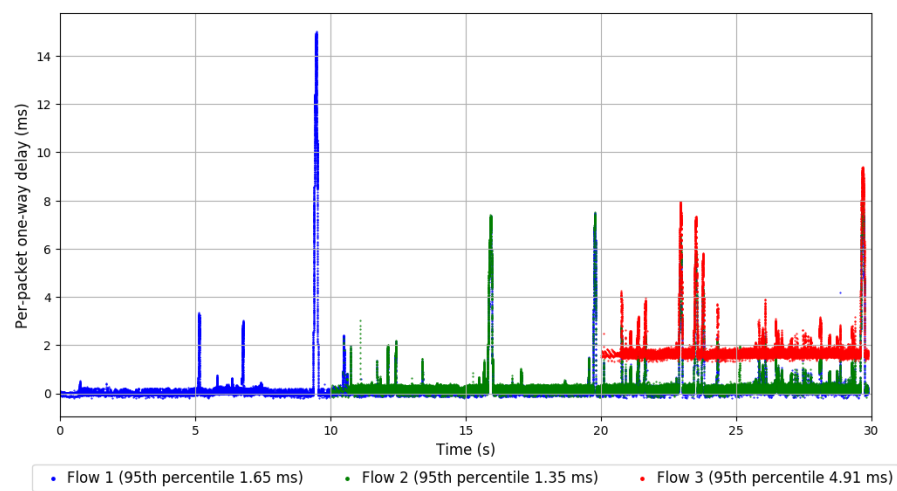
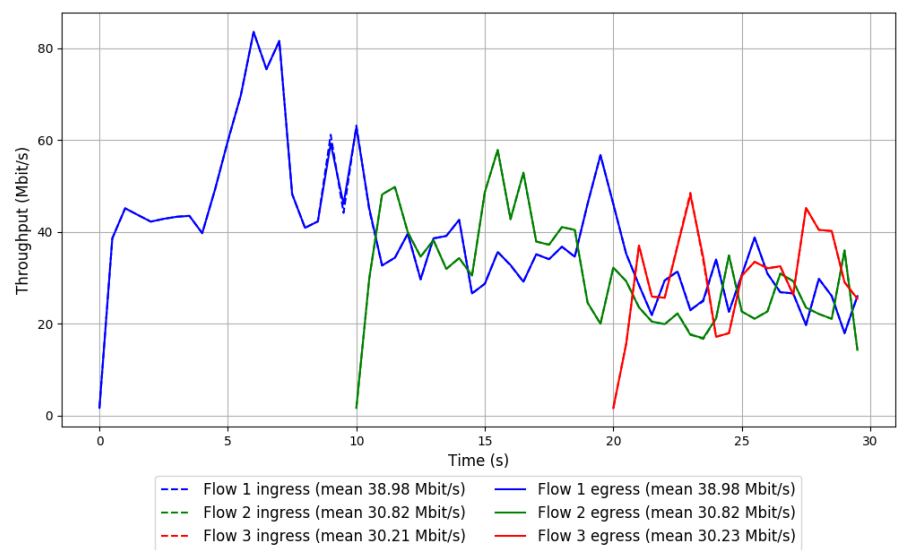


Run 2: Statistics of PCC-Vivace

Start at: 2018-04-17 16:41:08
End at: 2018-04-17 16:41:38
Local clock offset: -5.338 ms
Remote clock offset: -6.861 ms

Below is generated by plot.py at 2018-04-17 20:17:29
Datalink statistics
-- Total of 3 flows:
Average throughput: 69.44 Mbit/s
95th percentile per-packet one-way delay: 2.399 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 38.98 Mbit/s
95th percentile per-packet one-way delay: 1.654 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 30.82 Mbit/s
95th percentile per-packet one-way delay: 1.347 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 30.23 Mbit/s
95th percentile per-packet one-way delay: 4.909 ms
Loss rate: 0.00%

Run 2: Report of PCC-Vivace — Data Link

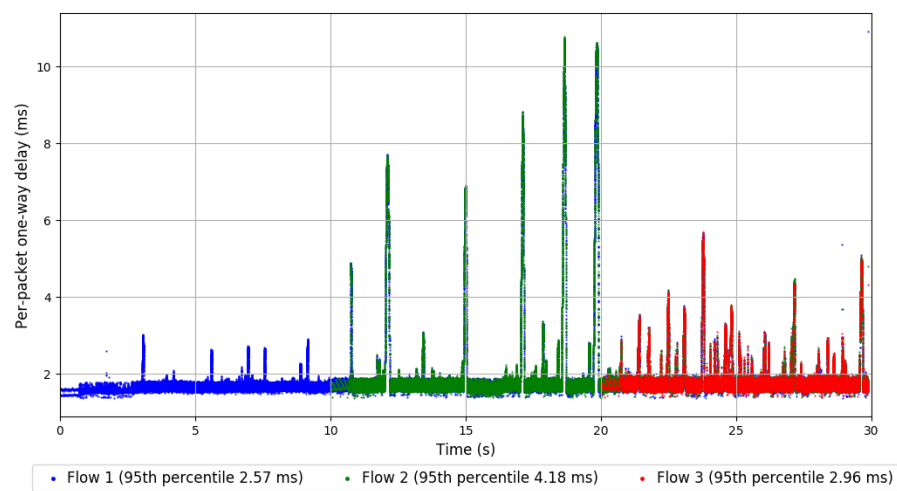
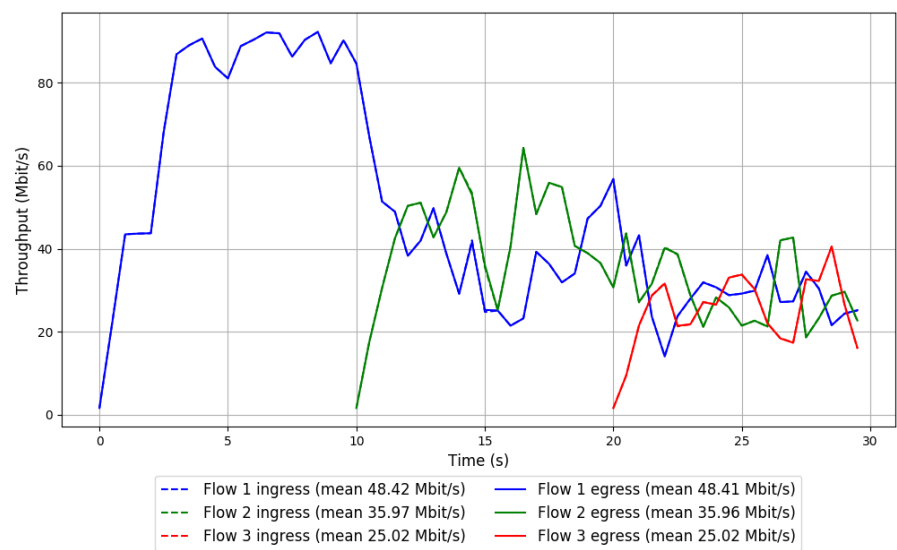


Run 3: Statistics of PCC-Vivace

Start at: 2018-04-17 17:00:20
End at: 2018-04-17 17:00:50
Local clock offset: -5.319 ms
Remote clock offset: -6.794 ms

Below is generated by plot.py at 2018-04-17 20:18:27
Datalink statistics
-- Total of 3 flows:
Average throughput: 80.57 Mbit/s
95th percentile per-packet one-way delay: 2.971 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 48.41 Mbit/s
95th percentile per-packet one-way delay: 2.571 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 35.96 Mbit/s
95th percentile per-packet one-way delay: 4.184 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 25.02 Mbit/s
95th percentile per-packet one-way delay: 2.955 ms
Loss rate: 0.00%

Run 3: Report of PCC-Vivace — Data Link

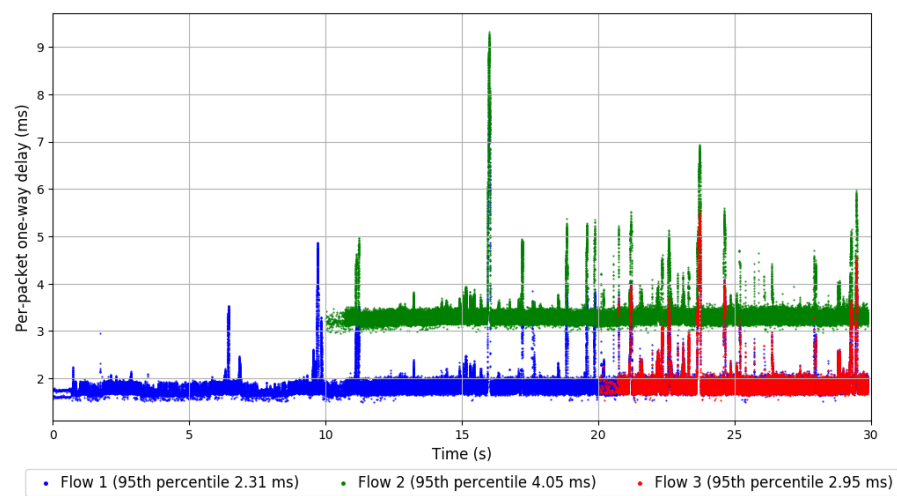
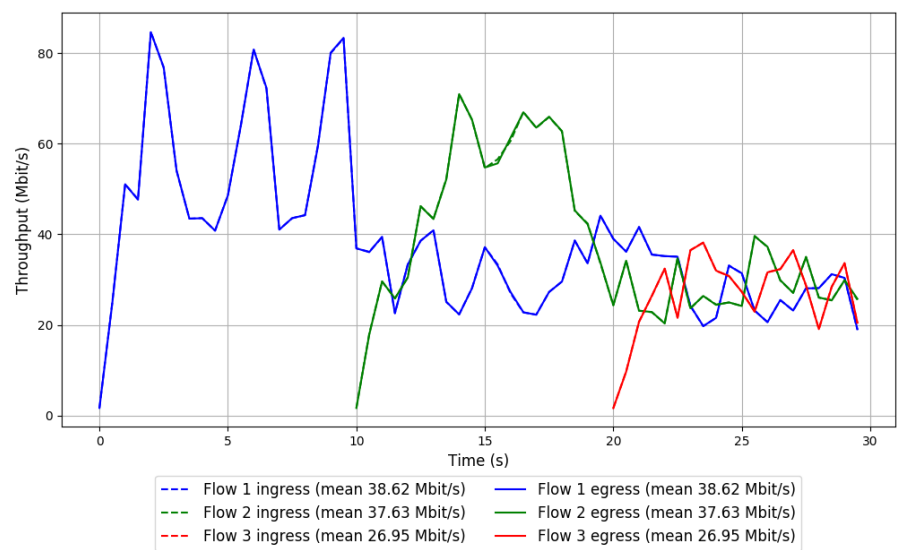


Run 4: Statistics of PCC-Vivace

Start at: 2018-04-17 17:19:31
End at: 2018-04-17 17:20:01
Local clock offset: -6.887 ms
Remote clock offset: -6.897 ms

Below is generated by plot.py at 2018-04-17 20:18:27
Datalink statistics
-- Total of 3 flows:
Average throughput: 72.52 Mbit/s
95th percentile per-packet one-way delay: 3.472 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 38.62 Mbit/s
95th percentile per-packet one-way delay: 2.313 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 37.63 Mbit/s
95th percentile per-packet one-way delay: 4.050 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 26.95 Mbit/s
95th percentile per-packet one-way delay: 2.949 ms
Loss rate: 0.00%

Run 4: Report of PCC-Vivace — Data Link

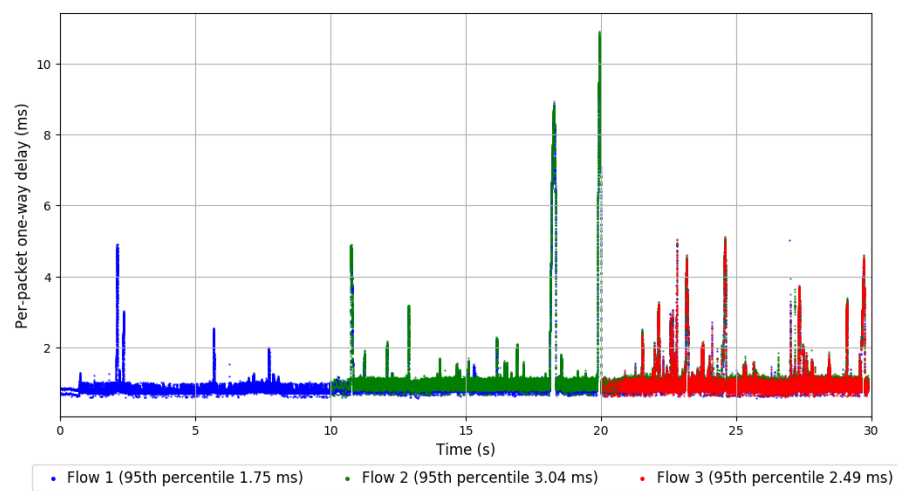
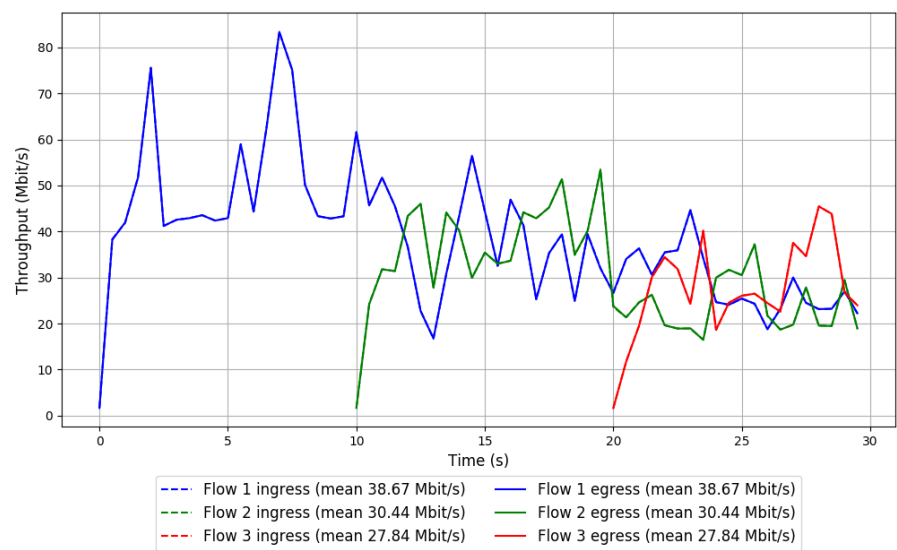


Run 5: Statistics of PCC-Vivace

Start at: 2018-04-17 17:38:42
End at: 2018-04-17 17:39:12
Local clock offset: -5.948 ms
Remote clock offset: -6.943 ms

Below is generated by plot.py at 2018-04-17 20:18:28
Datalink statistics
-- Total of 3 flows:
Average throughput: 68.09 Mbit/s
95th percentile per-packet one-way delay: 2.173 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 38.67 Mbit/s
95th percentile per-packet one-way delay: 1.748 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 30.44 Mbit/s
95th percentile per-packet one-way delay: 3.041 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 27.84 Mbit/s
95th percentile per-packet one-way delay: 2.489 ms
Loss rate: 0.00%

Run 5: Report of PCC-Vivace — Data Link

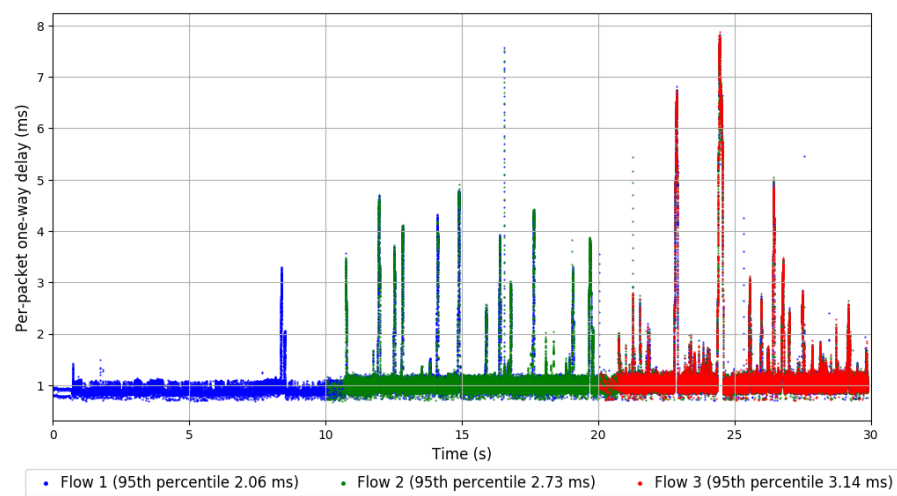
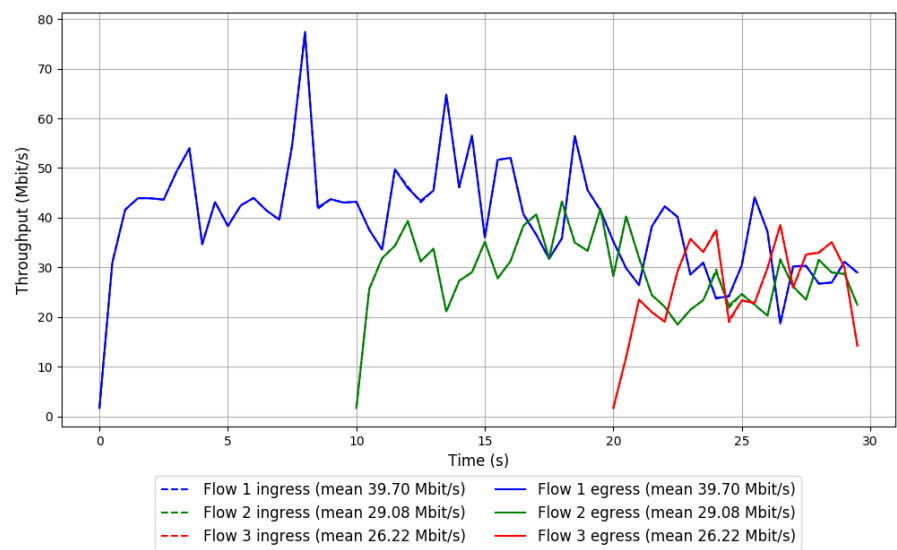


Run 6: Statistics of PCC-Vivace

Start at: 2018-04-17 17:57:53
End at: 2018-04-17 17:58:23
Local clock offset: -5.976 ms
Remote clock offset: -6.853 ms

Below is generated by plot.py at 2018-04-17 20:18:29
Datalink statistics
-- Total of 3 flows:
Average throughput: 67.69 Mbit/s
95th percentile per-packet one-way delay: 2.446 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 39.70 Mbit/s
95th percentile per-packet one-way delay: 2.065 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 29.08 Mbit/s
95th percentile per-packet one-way delay: 2.726 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 26.22 Mbit/s
95th percentile per-packet one-way delay: 3.138 ms
Loss rate: 0.00%

Run 6: Report of PCC-Vivace — Data Link

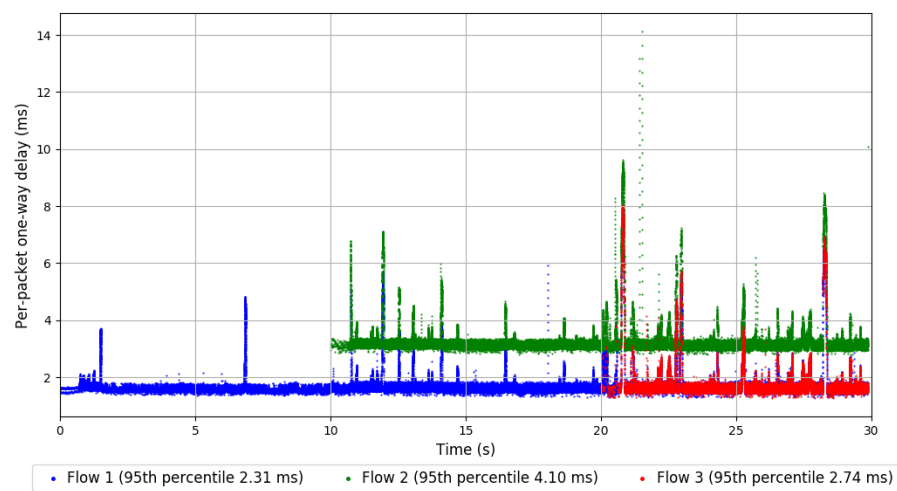
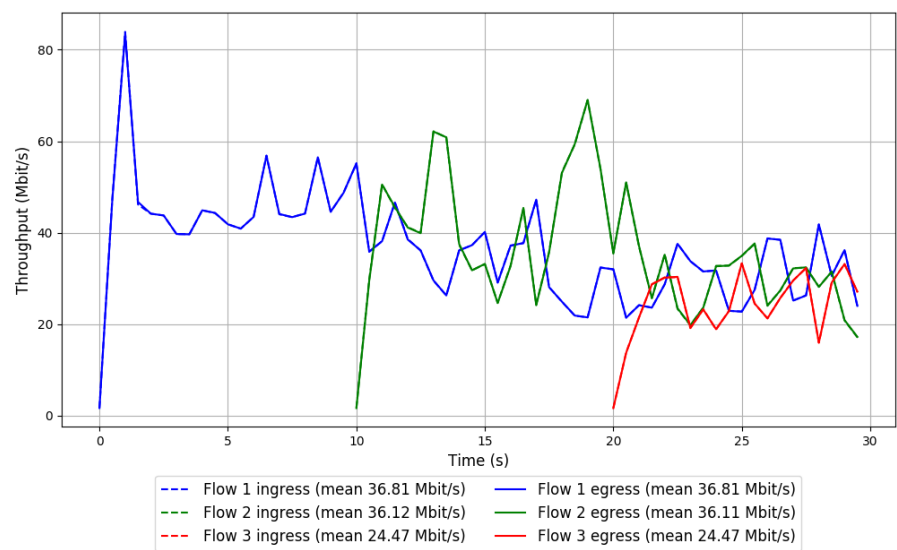


Run 7: Statistics of PCC-Vivace

Start at: 2018-04-17 18:17:06
End at: 2018-04-17 18:17:36
Local clock offset: -6.557 ms
Remote clock offset: -3.689 ms

Below is generated by plot.py at 2018-04-17 20:18:32
Datalink statistics
-- Total of 3 flows:
Average throughput: 68.88 Mbit/s
95th percentile per-packet one-way delay: 3.526 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 36.81 Mbit/s
95th percentile per-packet one-way delay: 2.310 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 36.11 Mbit/s
95th percentile per-packet one-way delay: 4.101 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 24.47 Mbit/s
95th percentile per-packet one-way delay: 2.744 ms
Loss rate: 0.00%

Run 7: Report of PCC-Vivace — Data Link

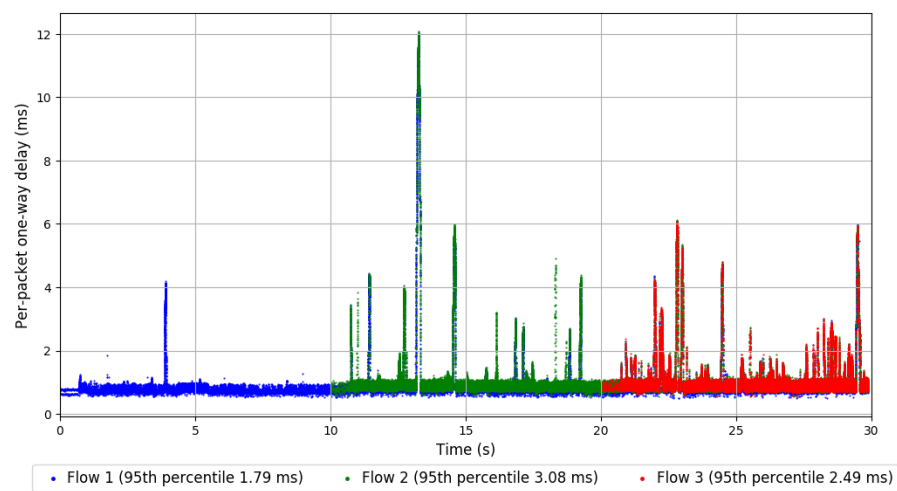
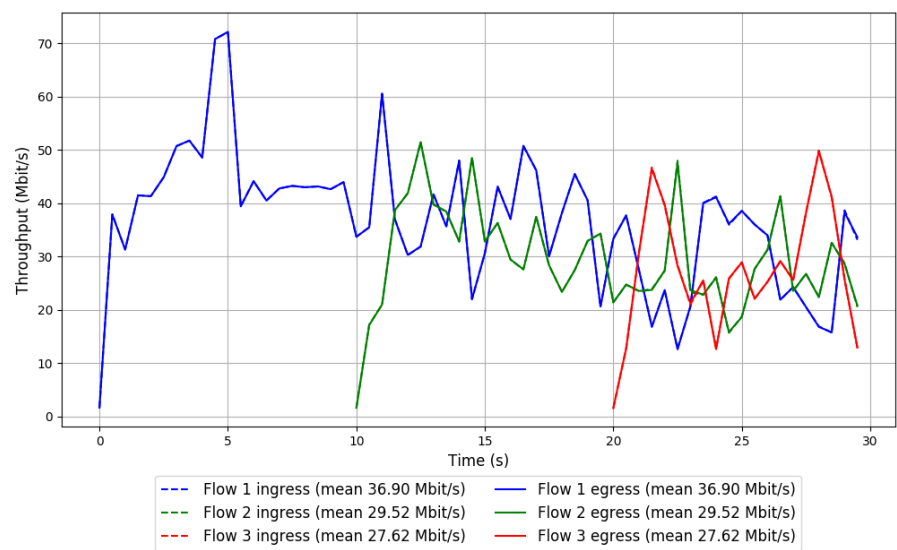


Run 8: Statistics of PCC-Vivace

Start at: 2018-04-17 18:36:16
End at: 2018-04-17 18:36:46
Local clock offset: -5.871 ms
Remote clock offset: -0.413 ms

Below is generated by plot.py at 2018-04-17 20:18:32
Datalink statistics
-- Total of 3 flows:
Average throughput: 65.63 Mbit/s
95th percentile per-packet one-way delay: 2.398 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 36.90 Mbit/s
95th percentile per-packet one-way delay: 1.787 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 29.52 Mbit/s
95th percentile per-packet one-way delay: 3.082 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 27.62 Mbit/s
95th percentile per-packet one-way delay: 2.488 ms
Loss rate: 0.00%

Run 8: Report of PCC-Vivace — Data Link



Run 9: Statistics of PCC-Vivace

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

End at: 2018-04-17 18:56:34

Local clock offset: -6.838 ms

Remote clock offset: 1.586 ms

Below is generated by plot.py at 2018-04-17 20:18:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 69.11 Mbit/s

95th percentile per-packet one-way delay: 3.702 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 40.71 Mbit/s

95th percentile per-packet one-way delay: 3.077 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 29.97 Mbit/s

95th percentile per-packet one-way delay: 3.422 ms

Loss rate: 0.00%

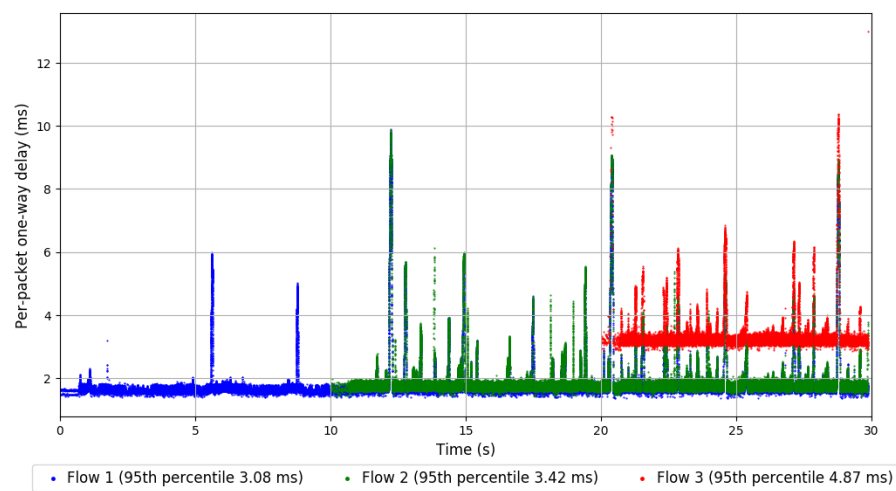
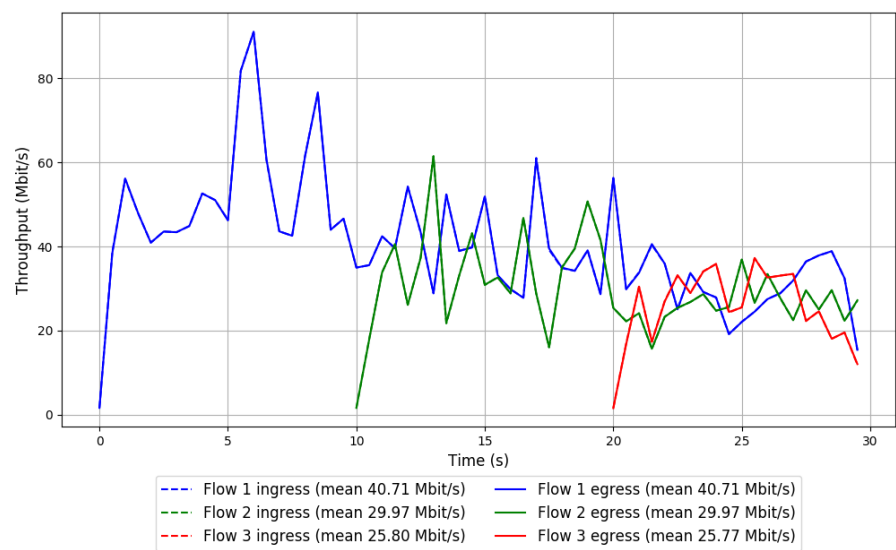
-- Flow 3:

Average throughput: 25.77 Mbit/s

95th percentile per-packet one-way delay: 4.873 ms

Loss rate: 0.00%

Run 9: Report of PCC-Vivace — Data Link



Run 10: Statistics of PCC-Vivace

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

End at: 2018-04-17 19:15:47

Local clock offset: -6.687 ms

Remote clock offset: 3.334 ms

Below is generated by plot.py at 2018-04-17 20:18:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 67.95 Mbit/s

95th percentile per-packet one-way delay: 2.979 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 37.74 Mbit/s

95th percentile per-packet one-way delay: 2.805 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 33.35 Mbit/s

95th percentile per-packet one-way delay: 3.091 ms

Loss rate: 0.00%

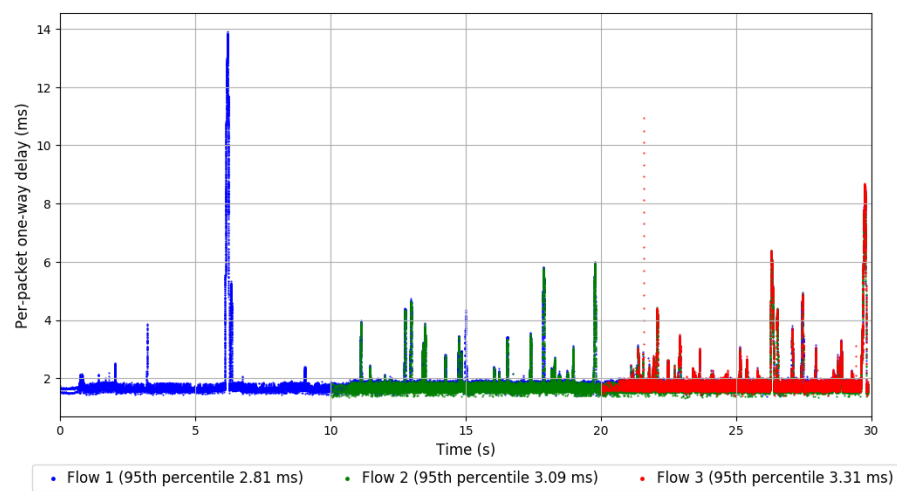
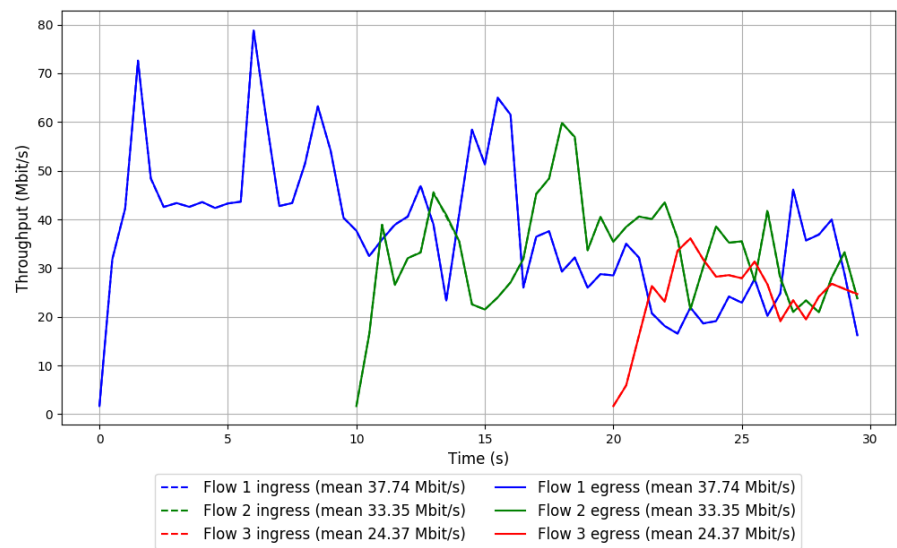
-- Flow 3:

Average throughput: 24.37 Mbit/s

95th percentile per-packet one-way delay: 3.310 ms

Loss rate: 0.00%

Run 10: Report of PCC-Vivace — Data Link



Run 1: Statistics of PCC-Expr

Start at: 2018-04-17 16:20:53

End at: 2018-04-17 16:21:23

Local clock offset: -6.985 ms

Remote clock offset: -7.257 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 16:40:04

End at: 2018-04-17 16:40:34

Local clock offset: -6.104 ms

Remote clock offset: -6.818 ms

Run 2: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 3: Statistics of PCC-Expr

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

End at: 2018-04-17 16:59:46

Local clock offset: -5.336 ms

Remote clock offset: -6.782 ms

Run 3: Report of PCC-Expr — Data Link

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Figure is missing

Run 4: Statistics of PCC-Expr

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

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

Local clock offset: -6.793 ms

Remote clock offset: -6.868 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 17:37:38

End at: 2018-04-17 17:38:08

Local clock offset: -5.221 ms

Remote clock offset: -6.976 ms

Run 5: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 6: Statistics of PCC-Expr

Start at: 2018-04-17 17:56:49

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

Local clock offset: -6.638 ms

Remote clock offset: -6.907 ms

Run 6: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 7: Statistics of PCC-Expr

Start at: 2018-04-17 18:16:02

End at: 2018-04-17 18:16:32

Local clock offset: -5.739 ms

Remote clock offset: -4.104 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 18:35:13

End at: 2018-04-17 18:35:43

Local clock offset: -5.131 ms

Remote clock offset: -0.539 ms

Run 8: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 9: Statistics of PCC-Expr

Start at: 2018-04-17 18:55:00

End at: 2018-04-17 18:55:30

Local clock offset: -6.789 ms

Remote clock offset: 1.494 ms

Run 9: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 10: Statistics of PCC-Expr

Start at: 2018-04-17 19:14:13

End at: 2018-04-17 19:14:43

Local clock offset: -6.717 ms

Remote clock offset: 3.231 ms

Run 10: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing