

Pantheon Report

Generated at 2018-04-17 20:43:16 (UTC).

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

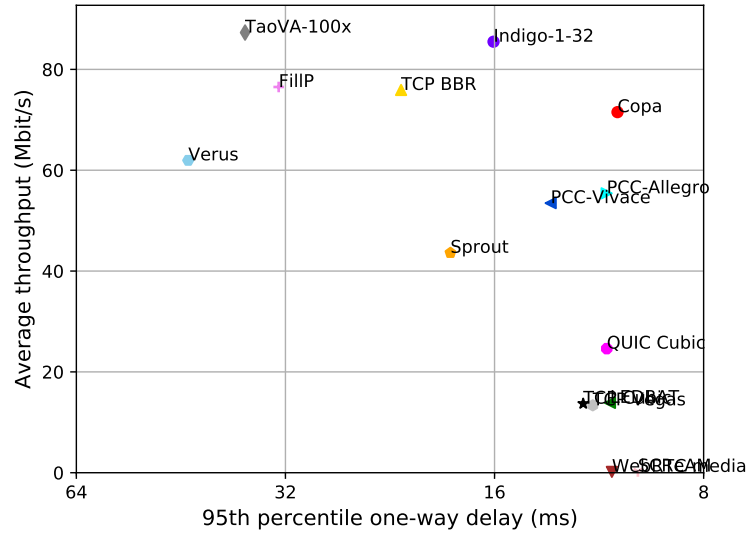
NTP offsets were measured against `nets.org.sg` and have been applied to correct the timestamps in logs.

Git summary:

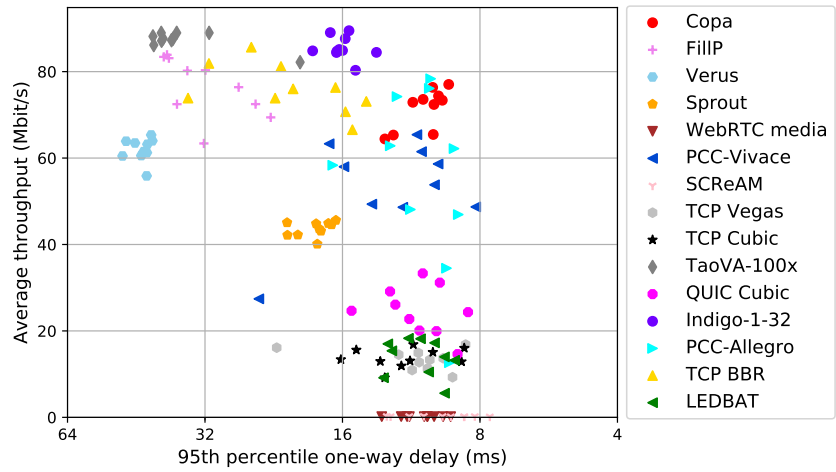
```
branch: master @ b3d6e7098641364fd3a292656a51aa81e316d0b4
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ 11f8c46a2bf1dc797253db7e8ca04076272b2a44
third_party/genericCC @ d223989828276fa83a807da6e0341dc0c7b89aec
third_party/indigo @ 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 India 1 Ethernet to India Ethernet, 10 runs of 30s each per scheme
3 flows with 10s interval between flows (mean of all runs by scheme)



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



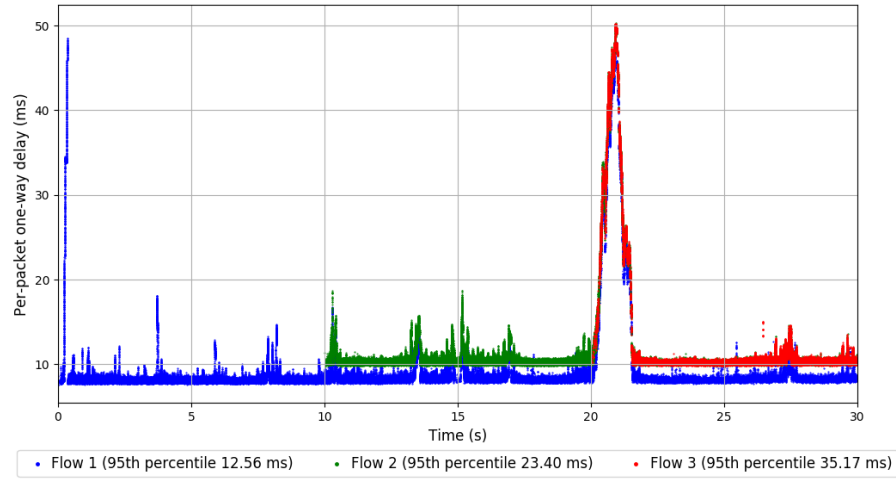
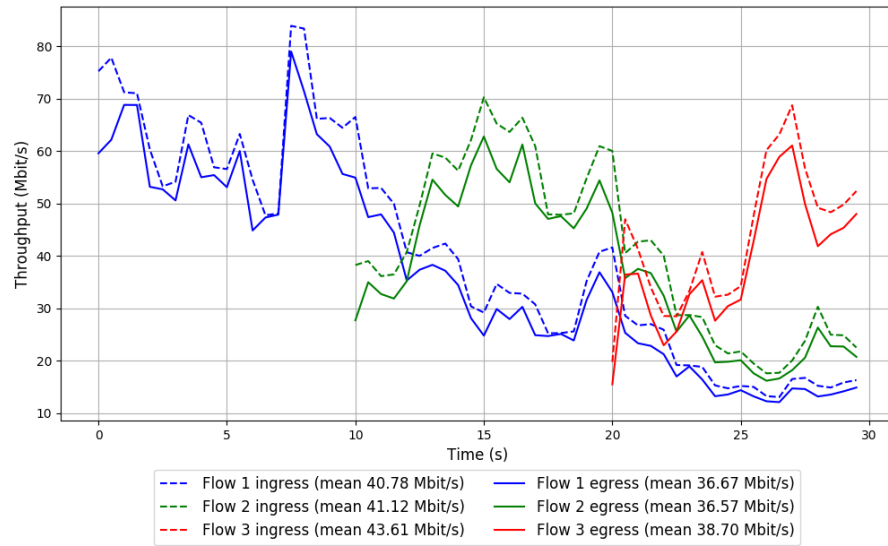
[illegible]

Run 1: Statistics of TCP BBR

Start at: 2018-04-17 16:53:33
End at: 2018-04-17 16:54:03
Local clock offset: -4.851 ms
Remote clock offset: -11.119 ms

Below is generated by plot.py at 2018-04-17 20:26:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 73.86 Mbit/s
95th percentile per-packet one-way delay: 22.468 ms
Loss rate: 10.63%
-- Flow 1:
Average throughput: 36.67 Mbit/s
95th percentile per-packet one-way delay: 12.559 ms
Loss rate: 10.08%
-- Flow 2:
Average throughput: 36.57 Mbit/s
95th percentile per-packet one-way delay: 23.404 ms
Loss rate: 11.11%
-- Flow 3:
Average throughput: 38.70 Mbit/s
95th percentile per-packet one-way delay: 35.168 ms
Loss rate: 11.30%

Run 1: Report of TCP BBR — Data Link

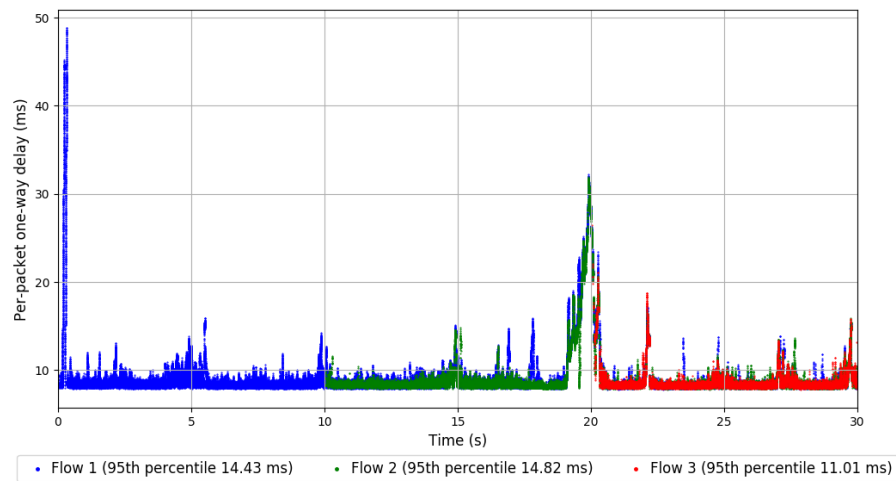
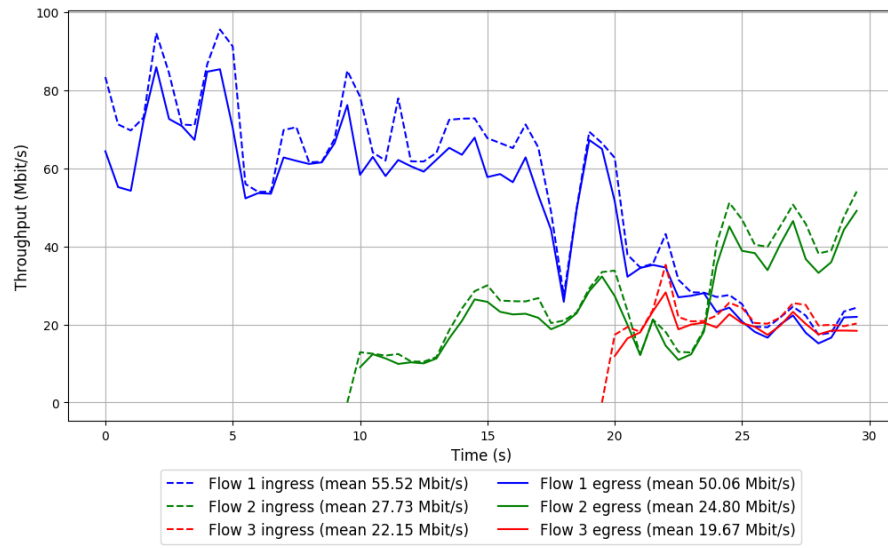


Run 2: Statistics of TCP BBR

Start at: 2018-04-17 17:13:28
End at: 2018-04-17 17:13:58
Local clock offset: -2.241 ms
Remote clock offset: -7.447 ms

Below is generated by plot.py at 2018-04-17 20:26:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 73.11 Mbit/s
95th percentile per-packet one-way delay: 14.189 ms
Loss rate: 10.13%
-- Flow 1:
Average throughput: 50.06 Mbit/s
95th percentile per-packet one-way delay: 14.425 ms
Loss rate: 9.83%
-- Flow 2:
Average throughput: 24.80 Mbit/s
95th percentile per-packet one-way delay: 14.823 ms
Loss rate: 10.57%
-- Flow 3:
Average throughput: 19.67 Mbit/s
95th percentile per-packet one-way delay: 11.011 ms
Loss rate: 11.32%

Run 2: Report of TCP BBR — Data Link

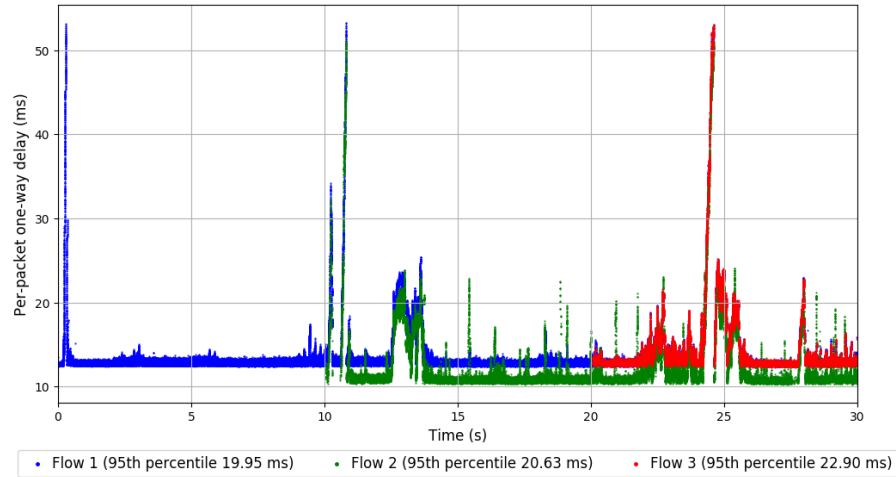
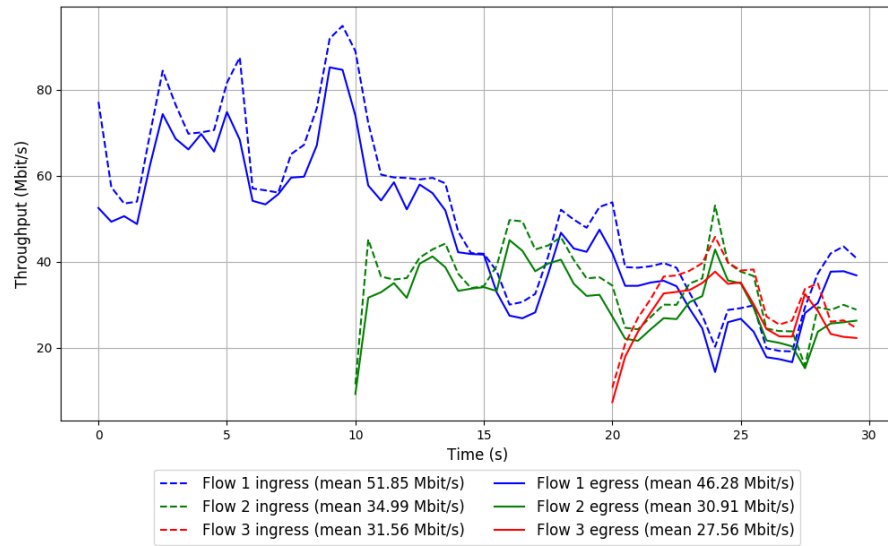


Run 3: Statistics of TCP BBR

Start at: 2018-04-17 17:33:34
End at: 2018-04-17 17:34:04
Local clock offset: -10.545 ms
Remote clock offset: -5.148 ms

Below is generated by plot.py at 2018-04-17 20:26:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 76.01 Mbit/s
95th percentile per-packet one-way delay: 20.520 ms
Loss rate: 11.22%
-- Flow 1:
Average throughput: 46.28 Mbit/s
95th percentile per-packet one-way delay: 19.951 ms
Loss rate: 10.74%
-- Flow 2:
Average throughput: 30.91 Mbit/s
95th percentile per-packet one-way delay: 20.631 ms
Loss rate: 11.65%
-- Flow 3:
Average throughput: 27.56 Mbit/s
95th percentile per-packet one-way delay: 22.897 ms
Loss rate: 12.65%

Run 3: Report of TCP BBR — Data Link

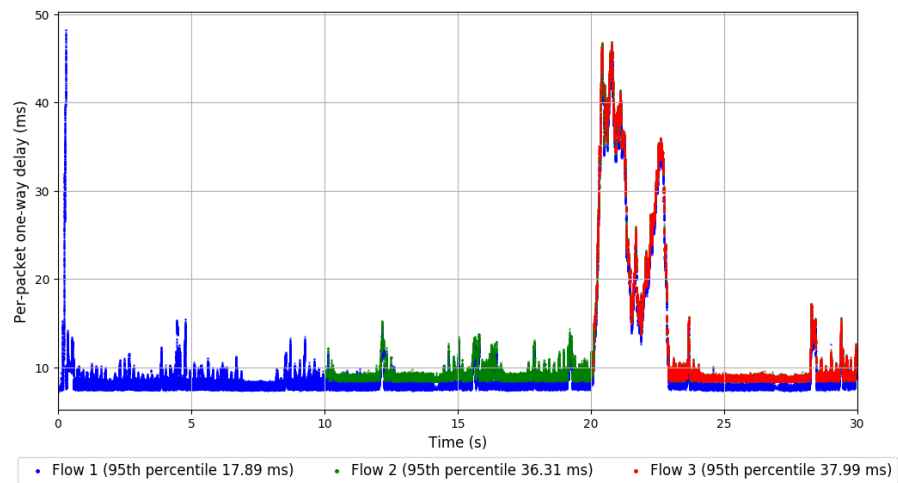
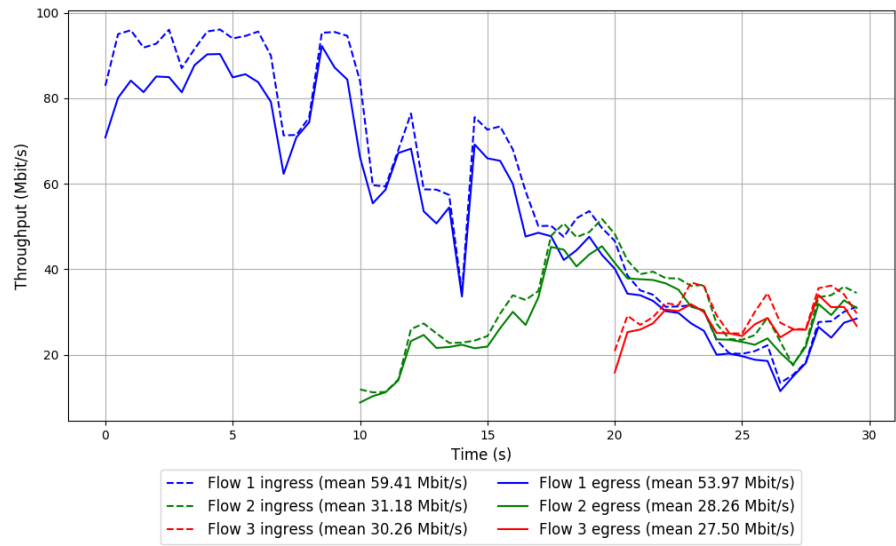


Run 4: Statistics of TCP BBR

Start at: 2018-04-17 17:53:22
End at: 2018-04-17 17:53:52
Local clock offset: -9.556 ms
Remote clock offset: -5.718 ms

Below is generated by plot.py at 2018-04-17 20:26:57
Datalink statistics
-- Total of 3 flows:
Average throughput: 81.90 Mbit/s
95th percentile per-packet one-way delay: 31.371 ms
Loss rate: 9.21%
-- Flow 1:
Average throughput: 53.97 Mbit/s
95th percentile per-packet one-way delay: 17.889 ms
Loss rate: 9.17%
-- Flow 2:
Average throughput: 28.26 Mbit/s
95th percentile per-packet one-way delay: 36.313 ms
Loss rate: 9.37%
-- Flow 3:
Average throughput: 27.50 Mbit/s
95th percentile per-packet one-way delay: 37.989 ms
Loss rate: 9.14%

Run 4: Report of TCP BBR — Data Link

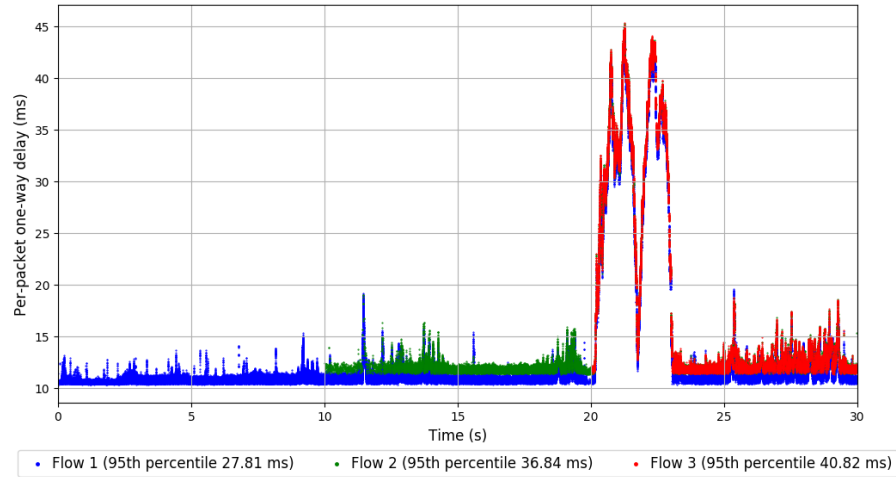
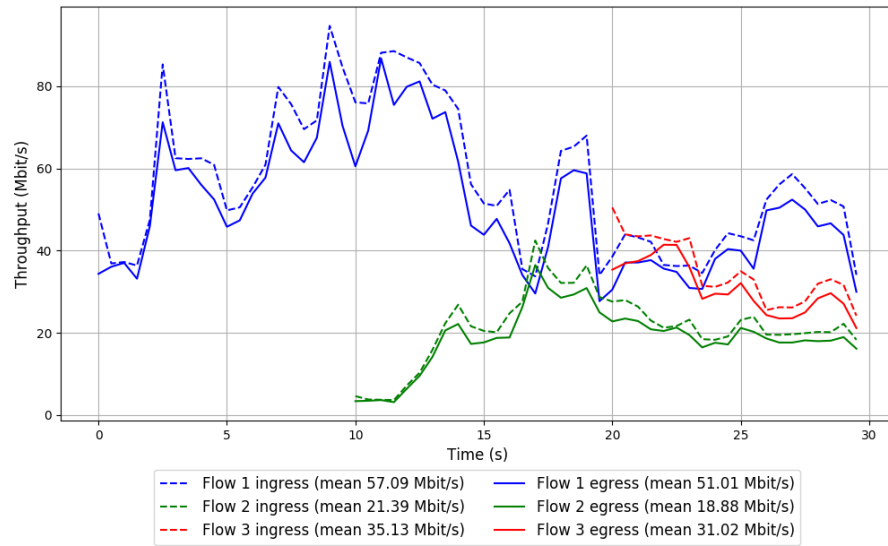


Run 5: Statistics of TCP BBR

Start at: 2018-04-17 18:13:31
End at: 2018-04-17 18:14:01
Local clock offset: -8.468 ms
Remote clock offset: -5.115 ms

Below is generated by plot.py at 2018-04-17 20:26:57
Datalink statistics
-- Total of 3 flows:
Average throughput: 73.87 Mbit/s
95th percentile per-packet one-way delay: 34.855 ms
Loss rate: 10.99%
-- Flow 1:
Average throughput: 51.01 Mbit/s
95th percentile per-packet one-way delay: 27.813 ms
Loss rate: 10.66%
-- Flow 2:
Average throughput: 18.88 Mbit/s
95th percentile per-packet one-way delay: 36.835 ms
Loss rate: 11.73%
-- Flow 3:
Average throughput: 31.02 Mbit/s
95th percentile per-packet one-way delay: 40.822 ms
Loss rate: 11.69%

Run 5: Report of TCP BBR — Data Link

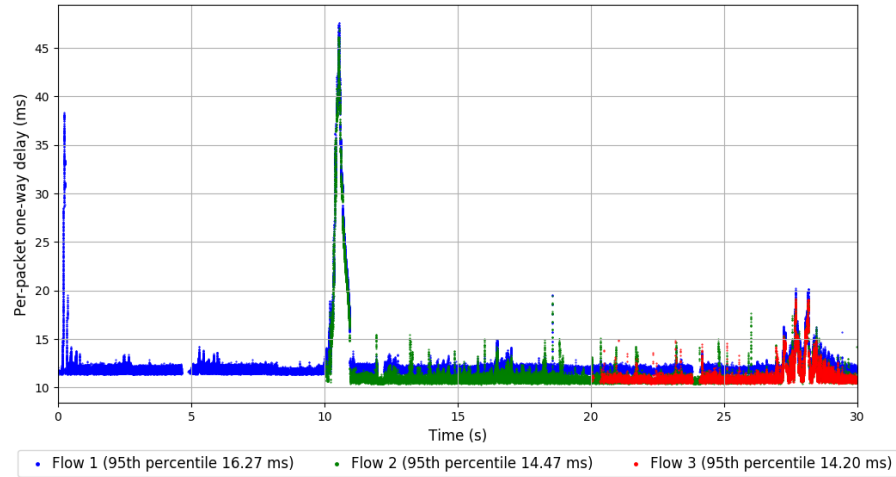
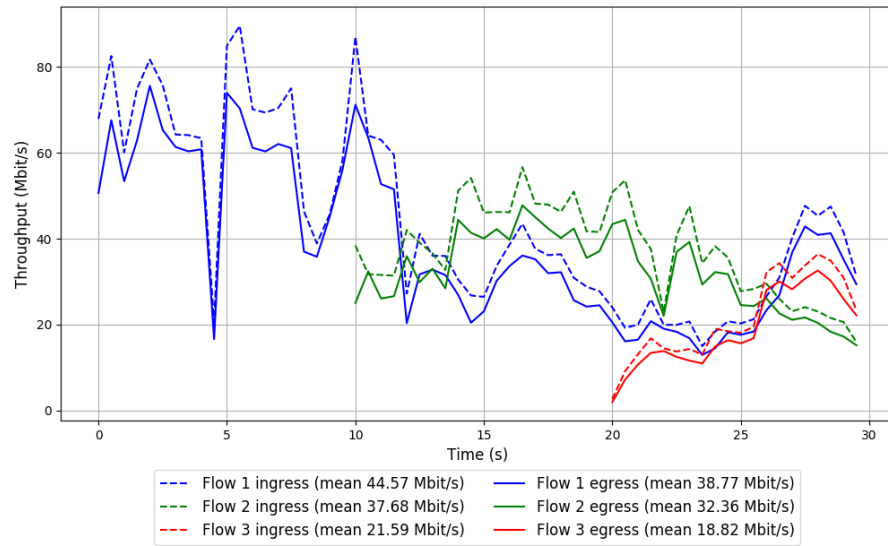


Run 6: Statistics of TCP BBR

Start at: 2018-04-17 18:33:29
End at: 2018-04-17 18:33:59
Local clock offset: -6.951 ms
Remote clock offset: -5.418 ms

Below is generated by plot.py at 2018-04-17 20:26:57
Datalink statistics
-- Total of 3 flows:
Average throughput: 66.56 Mbit/s
95th percentile per-packet one-way delay: 15.219 ms
Loss rate: 13.36%
-- Flow 1:
Average throughput: 38.77 Mbit/s
95th percentile per-packet one-way delay: 16.268 ms
Loss rate: 13.02%
-- Flow 2:
Average throughput: 32.36 Mbit/s
95th percentile per-packet one-way delay: 14.466 ms
Loss rate: 14.10%
-- Flow 3:
Average throughput: 18.82 Mbit/s
95th percentile per-packet one-way delay: 14.202 ms
Loss rate: 12.85%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-04-17 18:53:42

End at: 2018-04-17 18:54:12

Local clock offset: -1.737 ms

Remote clock offset: -2.7 ms

Below is generated by plot.py at 2018-04-17 20:27:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.65 Mbit/s

95th percentile per-packet one-way delay: 25.335 ms

Loss rate: 9.96%

-- Flow 1:

Average throughput: 52.20 Mbit/s

95th percentile per-packet one-way delay: 21.944 ms

Loss rate: 9.72%

-- Flow 2:

Average throughput: 34.56 Mbit/s

95th percentile per-packet one-way delay: 31.880 ms

Loss rate: 9.98%

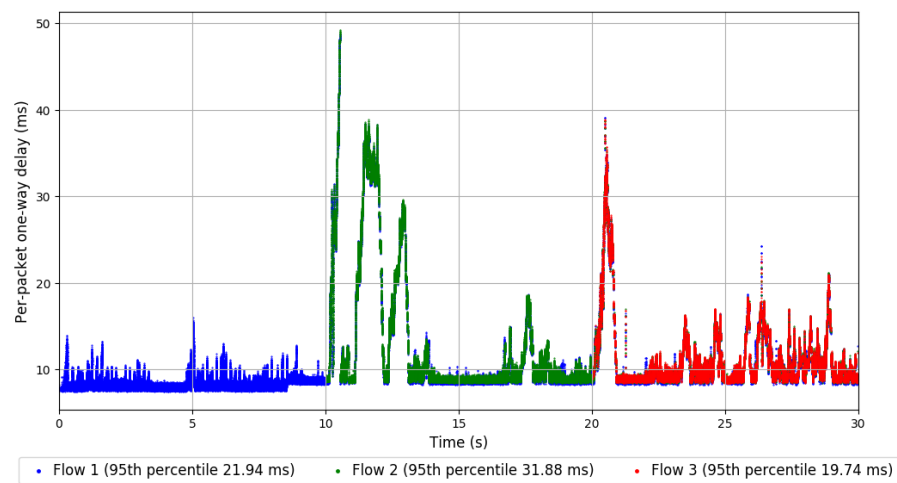
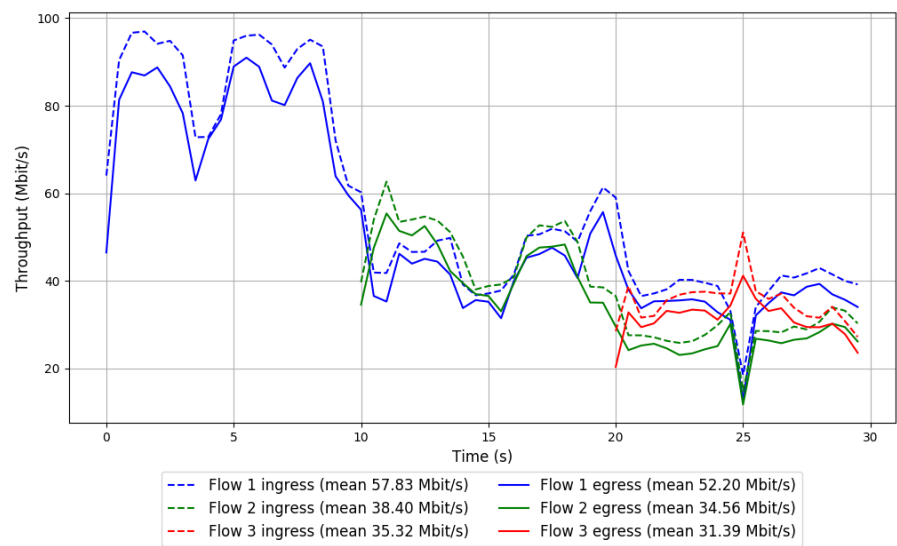
-- Flow 3:

Average throughput: 31.39 Mbit/s

95th percentile per-packet one-way delay: 19.737 ms

Loss rate: 11.09%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-04-17 19:13:39

End at: 2018-04-17 19:14:09

Local clock offset: -9.302 ms

Remote clock offset: 0.143 ms

Below is generated by plot.py at 2018-04-17 20:27:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 70.72 Mbit/s

95th percentile per-packet one-way delay: 15.760 ms

Loss rate: 13.18%

-- Flow 1:

Average throughput: 50.65 Mbit/s

95th percentile per-packet one-way delay: 14.876 ms

Loss rate: 12.91%

-- Flow 2:

Average throughput: 18.52 Mbit/s

95th percentile per-packet one-way delay: 15.954 ms

Loss rate: 13.74%

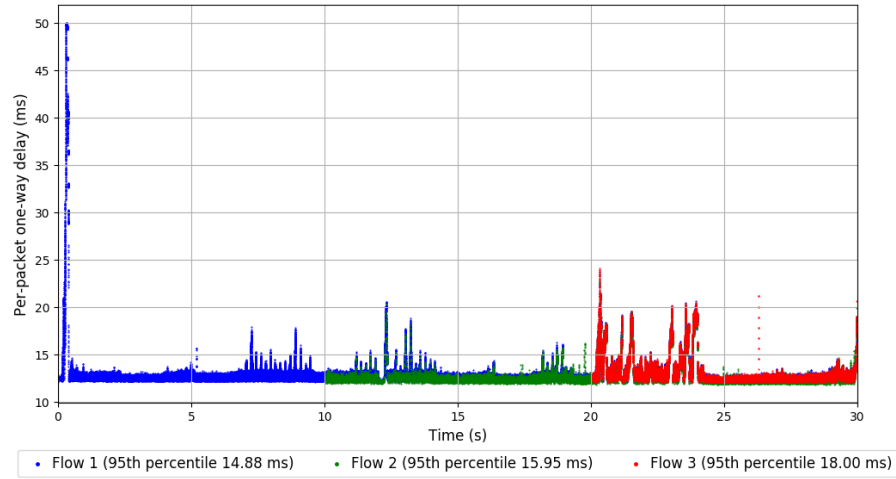
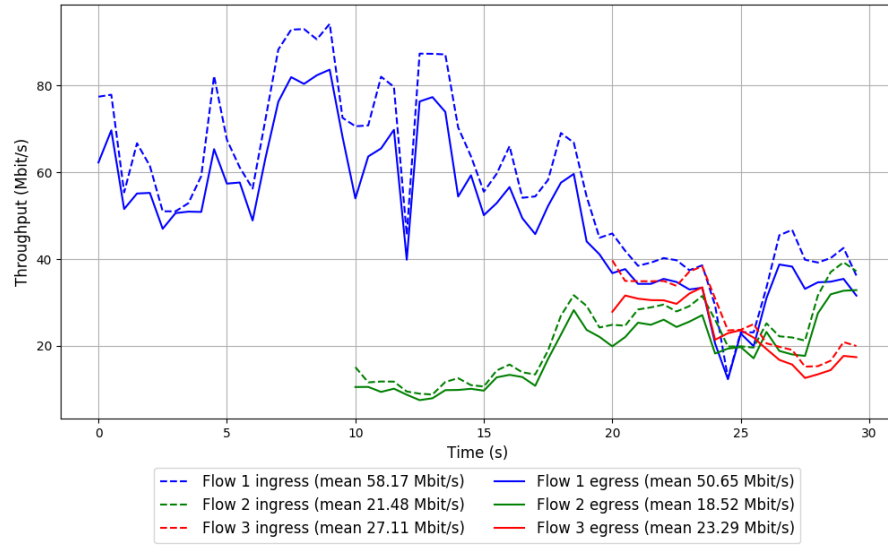
-- Flow 3:

Average throughput: 23.29 Mbit/s

95th percentile per-packet one-way delay: 18.002 ms

Loss rate: 14.02%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-04-17 19:33:31

End at: 2018-04-17 19:34:01

Local clock offset: -9.289 ms

Remote clock offset: 1.442 ms

Below is generated by plot.py at 2018-04-17 20:28:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 76.33 Mbit/s

95th percentile per-packet one-way delay: 16.573 ms

Loss rate: 12.41%

-- Flow 1:

Average throughput: 48.42 Mbit/s

95th percentile per-packet one-way delay: 15.665 ms

Loss rate: 12.22%

-- Flow 2:

Average throughput: 30.81 Mbit/s

95th percentile per-packet one-way delay: 17.593 ms

Loss rate: 12.50%

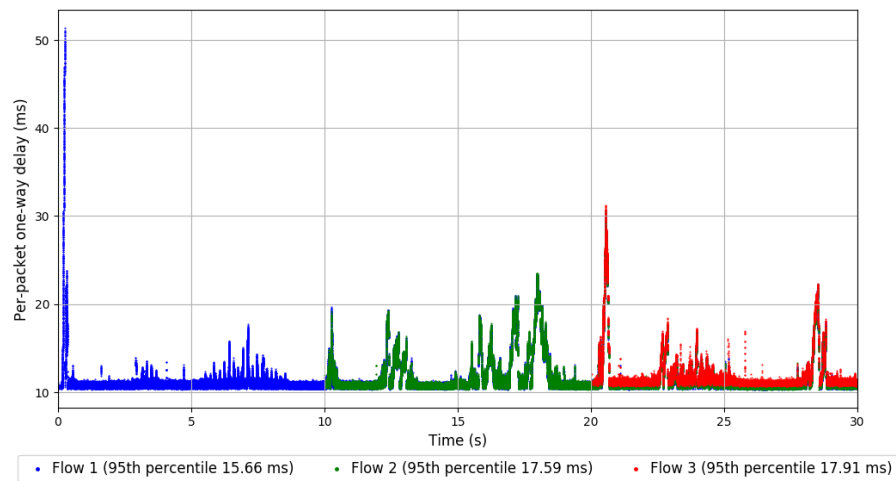
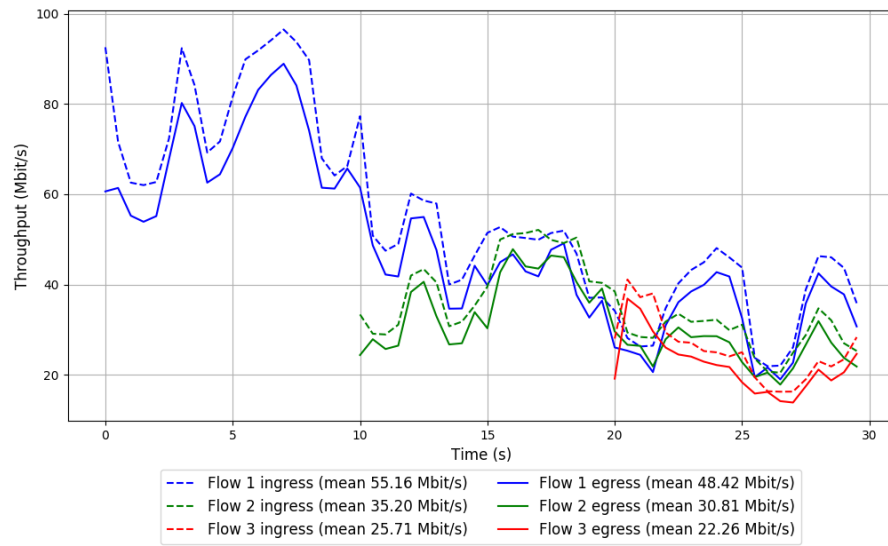
-- Flow 3:

Average throughput: 22.26 Mbit/s

95th percentile per-packet one-way delay: 17.909 ms

Loss rate: 13.44%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-04-17 19:53:42

End at: 2018-04-17 19:54:12

Local clock offset: -6.673 ms

Remote clock offset: 1.907 ms

Below is generated by plot.py at 2018-04-17 20:28:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 81.20 Mbit/s

95th percentile per-packet one-way delay: 21.815 ms

Loss rate: 9.11%

-- Flow 1:

Average throughput: 49.09 Mbit/s

95th percentile per-packet one-way delay: 21.419 ms

Loss rate: 8.97%

-- Flow 2:

Average throughput: 31.89 Mbit/s

95th percentile per-packet one-way delay: 24.313 ms

Loss rate: 9.61%

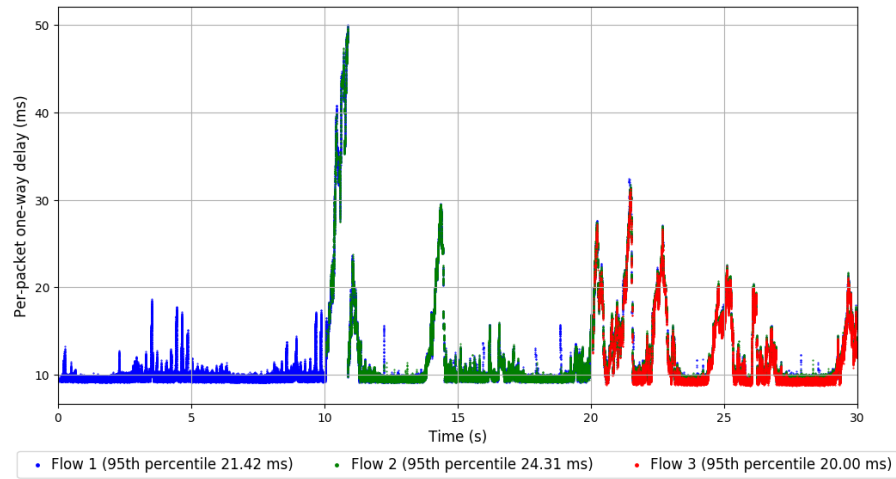
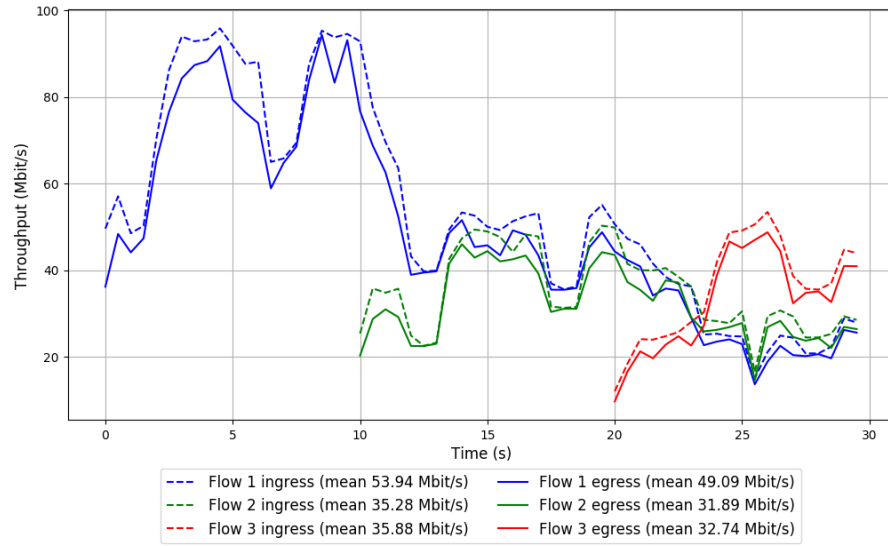
-- Flow 3:

Average throughput: 32.74 Mbit/s

95th percentile per-packet one-way delay: 20.000 ms

Loss rate: 8.78%

Run 10: Report of TCP BBR — Data Link

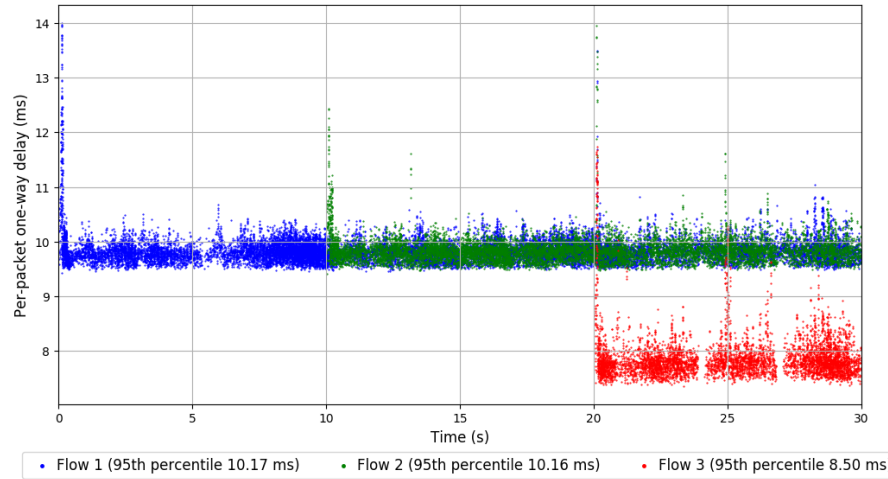
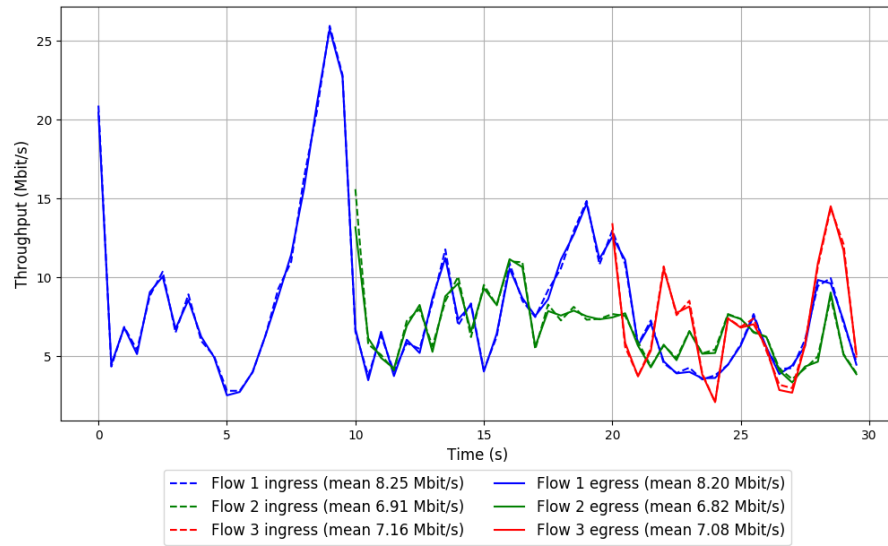


Run 1: Statistics of TCP Cubic

Start at: 2018-04-17 16:36:37
End at: 2018-04-17 16:37:07
Local clock offset: -6.31 ms
Remote clock offset: -10.14 ms

Below is generated by plot.py at 2018-04-17 20:28:14
Datalink statistics
-- Total of 3 flows:
Average throughput: 15.08 Mbit/s
95th percentile per-packet one-way delay: 10.144 ms
Loss rate: 0.94%
-- Flow 1:
Average throughput: 8.20 Mbit/s
95th percentile per-packet one-way delay: 10.166 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 6.82 Mbit/s
95th percentile per-packet one-way delay: 10.165 ms
Loss rate: 1.36%
-- Flow 3:
Average throughput: 7.08 Mbit/s
95th percentile per-packet one-way delay: 8.500 ms
Loss rate: 1.15%

Run 1: Report of TCP Cubic — Data Link

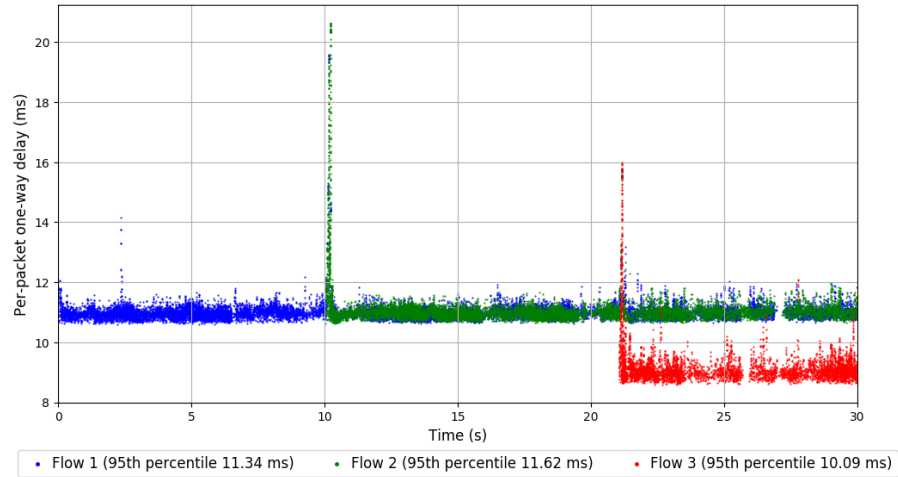
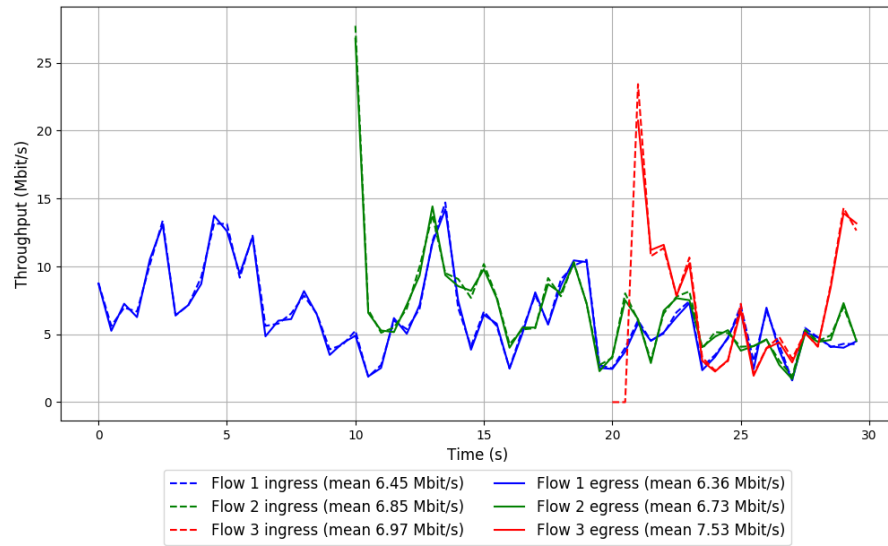


Run 2: Statistics of TCP Cubic

Start at: 2018-04-17 16:57:11
End at: 2018-04-17 16:57:41
Local clock offset: -4.717 ms
Remote clock offset: -10.815 ms

Below is generated by plot.py at 2018-04-17 20:28:14
Datalink statistics
-- Total of 3 flows:
Average throughput: 13.08 Mbit/s
95th percentile per-packet one-way delay: 11.382 ms
Loss rate: 1.83%
-- Flow 1:
Average throughput: 6.36 Mbit/s
95th percentile per-packet one-way delay: 11.336 ms
Loss rate: 1.51%
-- Flow 2:
Average throughput: 6.73 Mbit/s
95th percentile per-packet one-way delay: 11.618 ms
Loss rate: 1.74%
-- Flow 3:
Average throughput: 7.53 Mbit/s
95th percentile per-packet one-way delay: 10.085 ms
Loss rate: 2.89%

Run 2: Report of TCP Cubic — Data Link

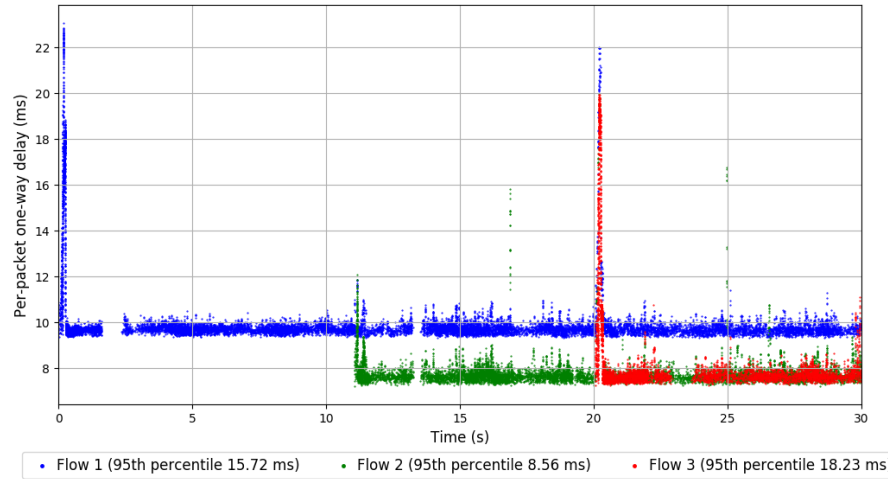
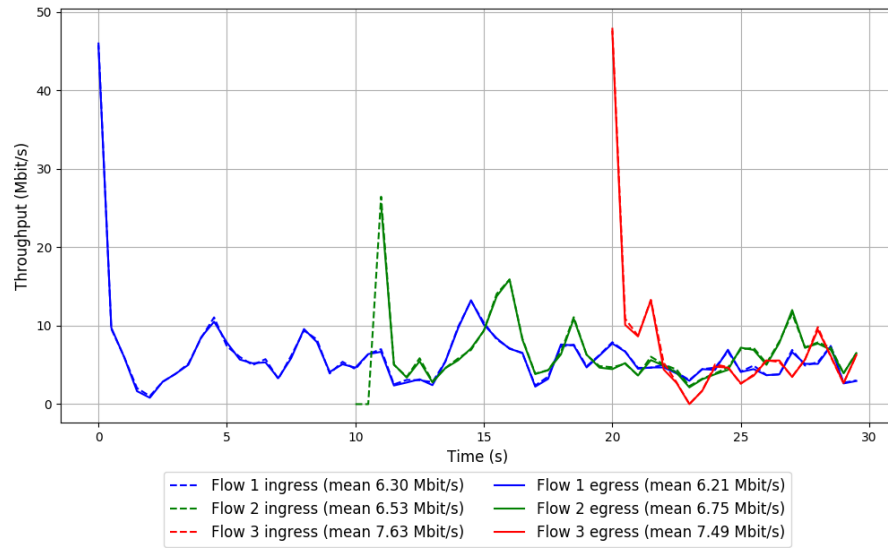


Run 3: Statistics of TCP Cubic

Start at: 2018-04-17 17:17:13
End at: 2018-04-17 17:17:43
Local clock offset: -1.236 ms
Remote clock offset: -6.455 ms

Below is generated by plot.py at 2018-04-17 20:28:14
Datalink statistics
-- Total of 3 flows:
Average throughput: 12.95 Mbit/s
95th percentile per-packet one-way delay: 13.222 ms
Loss rate: 1.73%
-- Flow 1:
Average throughput: 6.21 Mbit/s
95th percentile per-packet one-way delay: 15.717 ms
Loss rate: 1.48%
-- Flow 2:
Average throughput: 6.75 Mbit/s
95th percentile per-packet one-way delay: 8.563 ms
Loss rate: 1.98%
-- Flow 3:
Average throughput: 7.49 Mbit/s
95th percentile per-packet one-way delay: 18.226 ms
Loss rate: 1.91%

Run 3: Report of TCP Cubic — Data Link

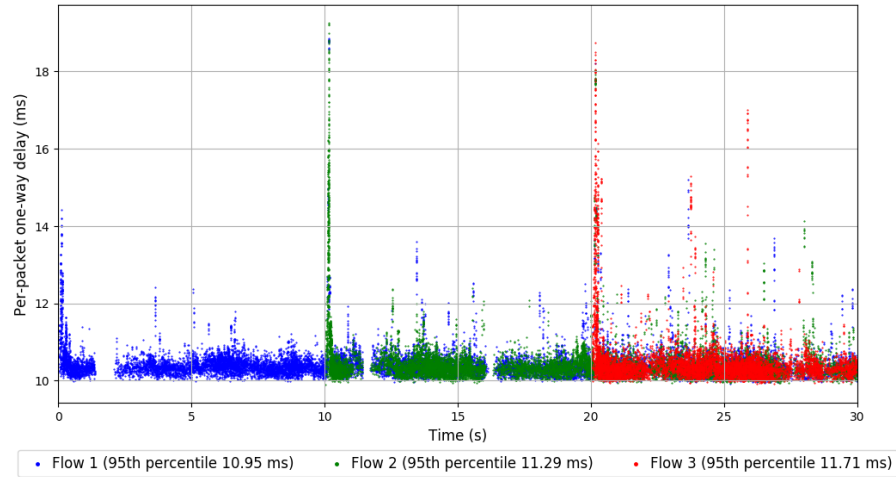
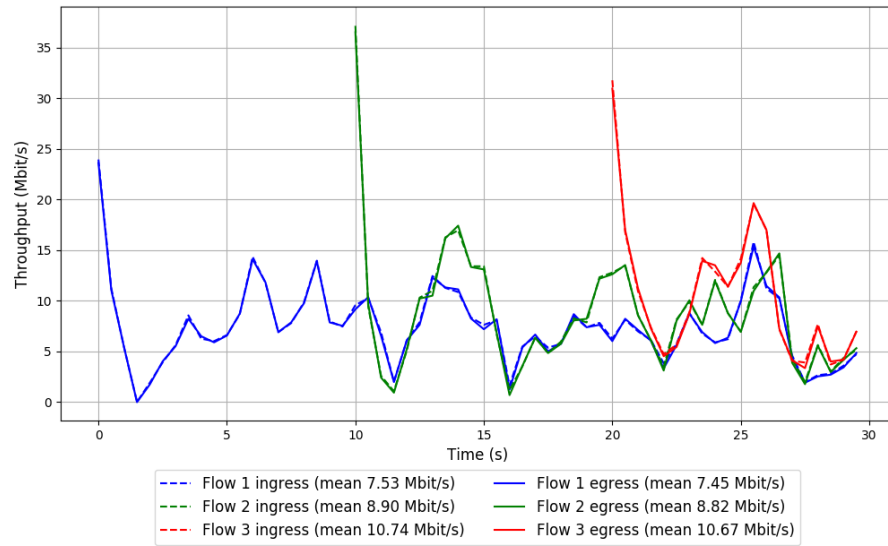


Run 4: Statistics of TCP Cubic

Start at: 2018-04-17 17:37:08
End at: 2018-04-17 17:37:38
Local clock offset: -10.357 ms
Remote clock offset: -4.474 ms

Below is generated by plot.py at 2018-04-17 20:28:14
Datalink statistics
-- Total of 3 flows:
Average throughput: 16.86 Mbit/s
95th percentile per-packet one-way delay: 11.195 ms
Loss rate: 0.88%
-- Flow 1:
Average throughput: 7.45 Mbit/s
95th percentile per-packet one-way delay: 10.952 ms
Loss rate: 0.97%
-- Flow 2:
Average throughput: 8.82 Mbit/s
95th percentile per-packet one-way delay: 11.292 ms
Loss rate: 0.90%
-- Flow 3:
Average throughput: 10.67 Mbit/s
95th percentile per-packet one-way delay: 11.714 ms
Loss rate: 0.64%

Run 4: Report of TCP Cubic — Data Link

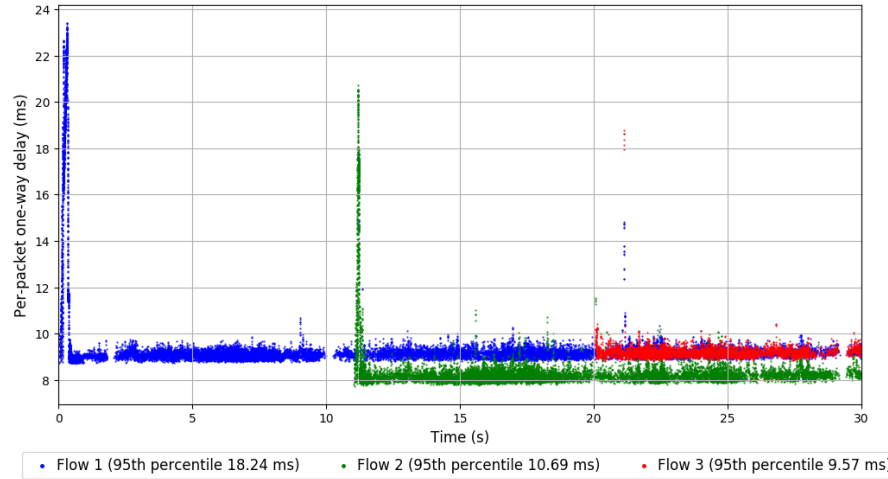
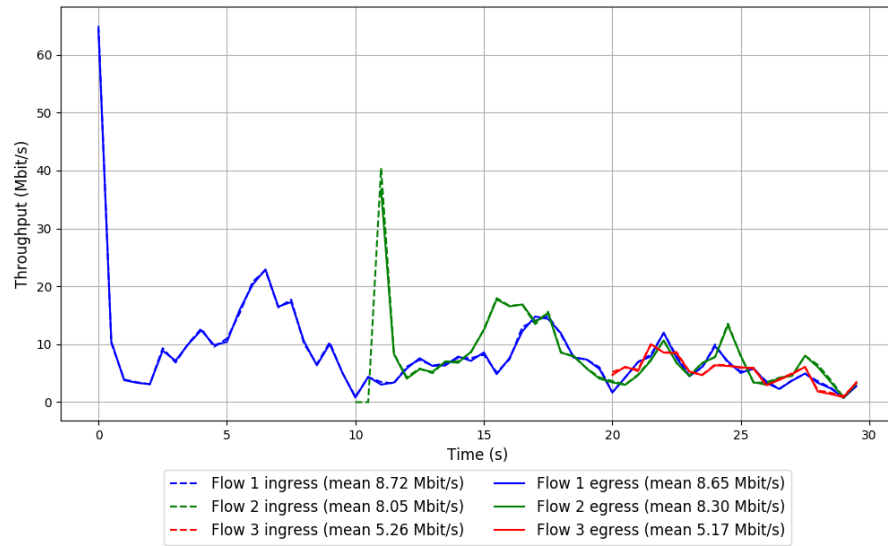


Run 5: Statistics of TCP Cubic

Start at: 2018-04-17 17:57:07
End at: 2018-04-17 17:57:37
Local clock offset: -7.981 ms
Remote clock offset: -4.892 ms

Below is generated by plot.py at 2018-04-17 20:28:14
Datalink statistics
-- Total of 3 flows:
Average throughput: 15.60 Mbit/s
95th percentile per-packet one-way delay: 14.921 ms
Loss rate: 1.37%
-- Flow 1:
Average throughput: 8.65 Mbit/s
95th percentile per-packet one-way delay: 18.237 ms
Loss rate: 0.85%
-- Flow 2:
Average throughput: 8.30 Mbit/s
95th percentile per-packet one-way delay: 10.693 ms
Loss rate: 2.07%
-- Flow 3:
Average throughput: 5.17 Mbit/s
95th percentile per-packet one-way delay: 9.568 ms
Loss rate: 1.81%

Run 5: Report of TCP Cubic — Data Link

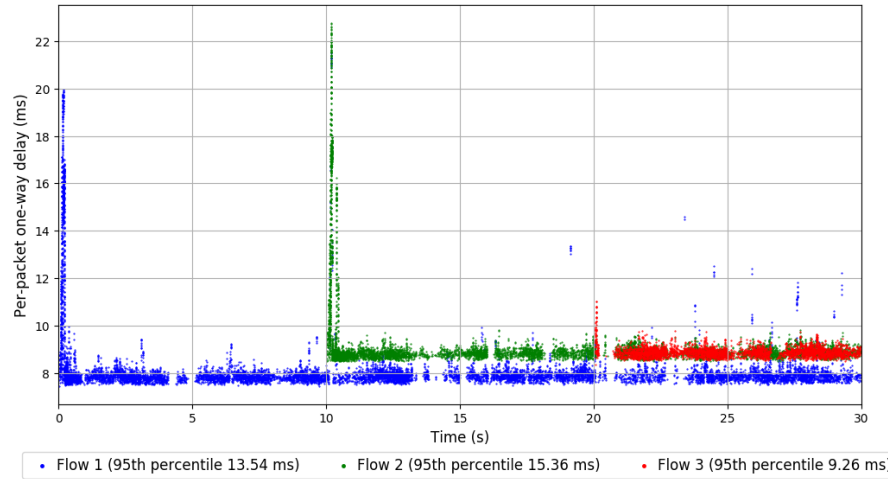
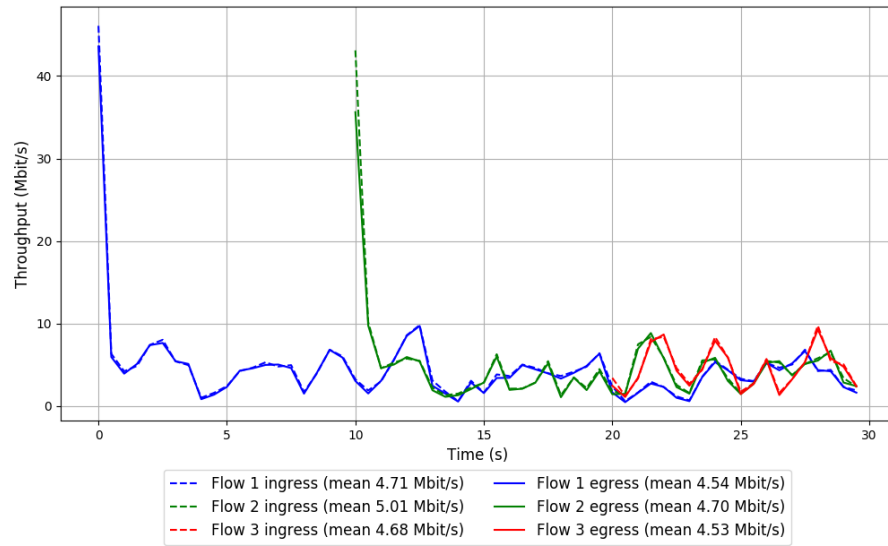


Run 6: Statistics of TCP Cubic

Start at: 2018-04-17 18:17:10
End at: 2018-04-17 18:17:40
Local clock offset: -5.226 ms
Remote clock offset: -5.242 ms

Below is generated by plot.py at 2018-04-17 20:28:14
Datalink statistics
-- Total of 3 flows:
Average throughput: 9.17 Mbit/s
95th percentile per-packet one-way delay: 12.928 ms
Loss rate: 4.44%
-- Flow 1:
Average throughput: 4.54 Mbit/s
95th percentile per-packet one-way delay: 13.540 ms
Loss rate: 3.56%
-- Flow 2:
Average throughput: 4.70 Mbit/s
95th percentile per-packet one-way delay: 15.358 ms
Loss rate: 6.22%
-- Flow 3:
Average throughput: 4.53 Mbit/s
95th percentile per-packet one-way delay: 9.255 ms
Loss rate: 3.25%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-04-17 18:37:14

End at: 2018-04-17 18:37:44

Local clock offset: -2.997 ms

Remote clock offset: -4.7 ms

Below is generated by plot.py at 2018-04-17 20:28:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 16.03 Mbit/s

95th percentile per-packet one-way delay: 8.659 ms

Loss rate: 1.45%

-- Flow 1:

Average throughput: 8.88 Mbit/s

95th percentile per-packet one-way delay: 9.043 ms

Loss rate: 1.39%

-- Flow 2:

Average throughput: 7.68 Mbit/s

95th percentile per-packet one-way delay: 8.704 ms

Loss rate: 1.29%

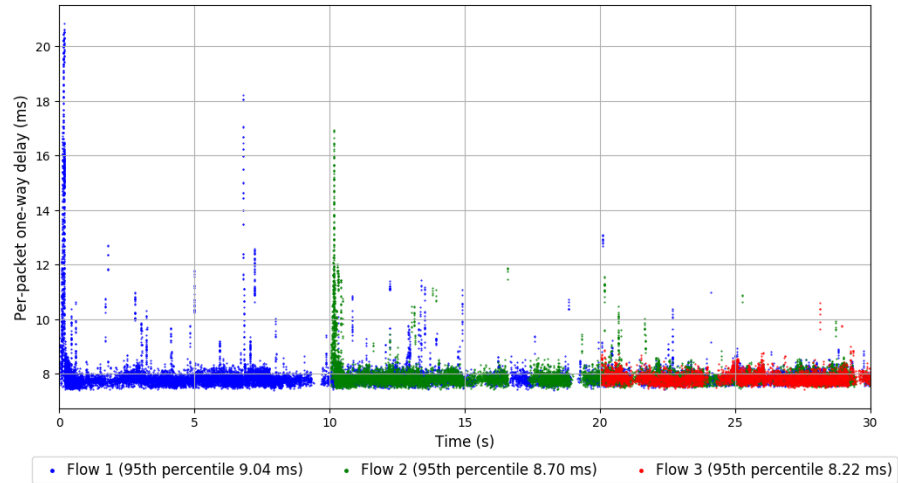
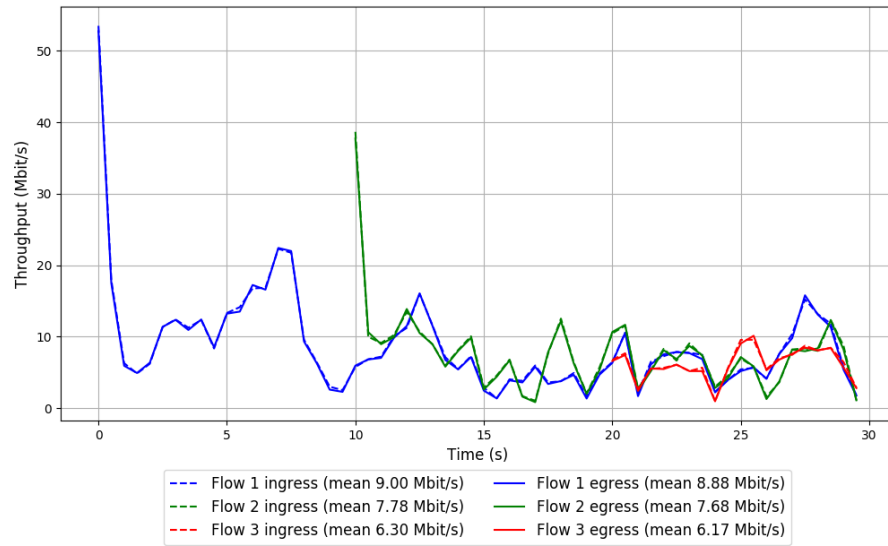
-- Flow 3:

Average throughput: 6.17 Mbit/s

95th percentile per-packet one-way delay: 8.223 ms

Loss rate: 2.07%

Run 7: Report of TCP Cubic — Data Link

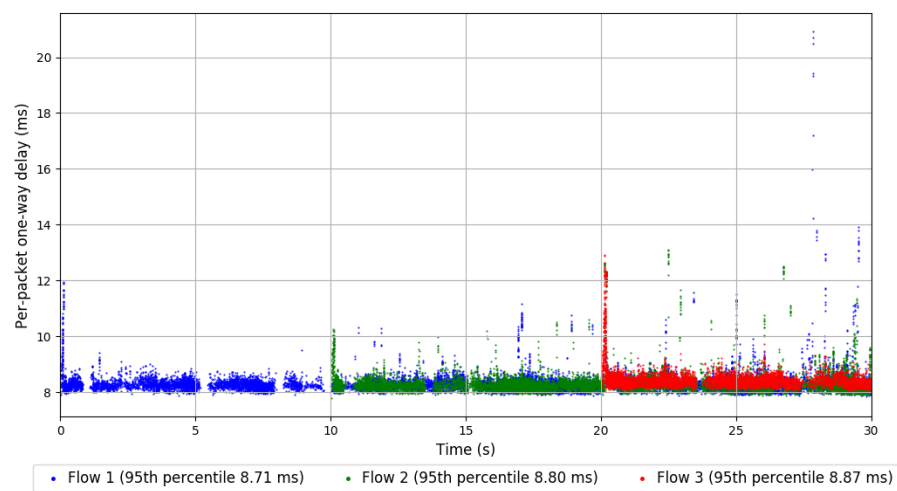
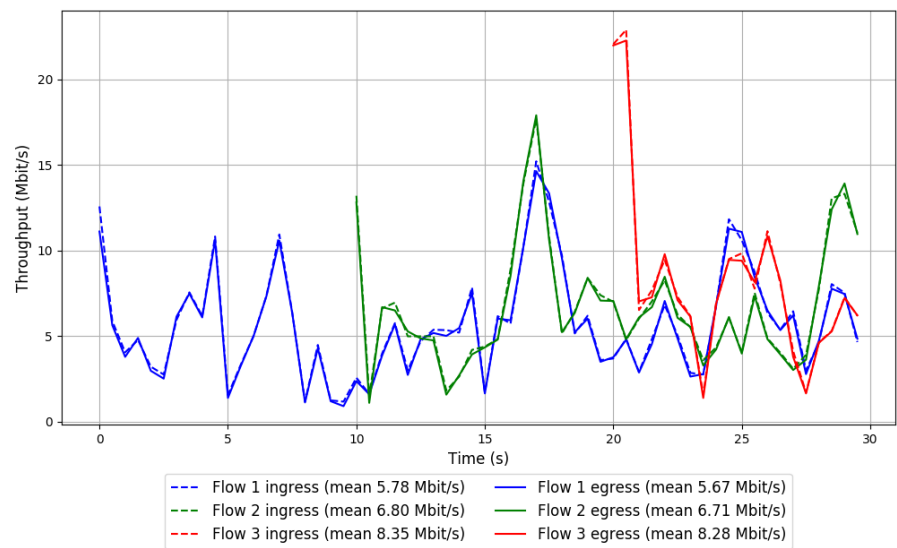


Run 8: Statistics of TCP Cubic

Start at: 2018-04-17 18:57:18
End at: 2018-04-17 18:57:48
Local clock offset: -1.536 ms
Remote clock offset: -2.346 ms

Below is generated by plot.py at 2018-04-17 20:28:14
Datalink statistics
-- Total of 3 flows:
Average throughput: 12.89 Mbit/s
95th percentile per-packet one-way delay: 8.780 ms
Loss rate: 1.44%
-- Flow 1:
Average throughput: 5.67 Mbit/s
95th percentile per-packet one-way delay: 8.711 ms
Loss rate: 1.86%
-- Flow 2:
Average throughput: 6.71 Mbit/s
95th percentile per-packet one-way delay: 8.800 ms
Loss rate: 1.28%
-- Flow 3:
Average throughput: 8.28 Mbit/s
95th percentile per-packet one-way delay: 8.871 ms
Loss rate: 0.82%

Run 8: Report of TCP Cubic — Data Link

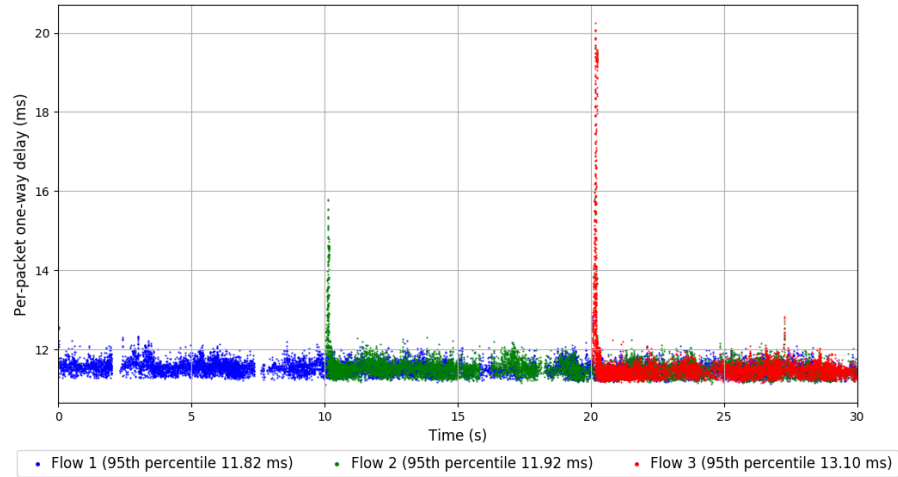
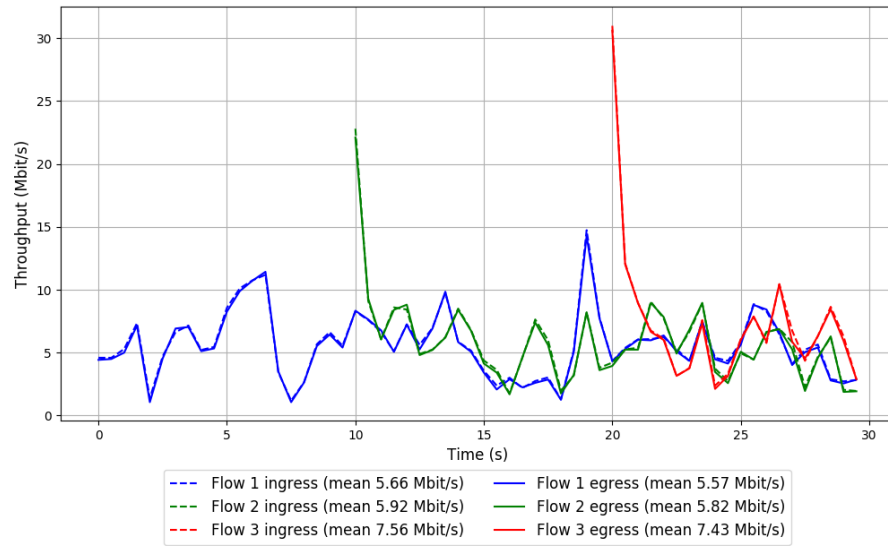


Run 9: Statistics of TCP Cubic

Start at: 2018-04-17 19:17:19
End at: 2018-04-17 19:17:49
Local clock offset: -9.729 ms
Remote clock offset: -0.242 ms

Below is generated by plot.py at 2018-04-17 20:28:14
Datalink statistics
-- Total of 3 flows:
Average throughput: 11.91 Mbit/s
95th percentile per-packet one-way delay: 11.890 ms
Loss rate: 1.60%
-- Flow 1:
Average throughput: 5.57 Mbit/s
95th percentile per-packet one-way delay: 11.817 ms
Loss rate: 1.56%
-- Flow 2:
Average throughput: 5.82 Mbit/s
95th percentile per-packet one-way delay: 11.917 ms
Loss rate: 1.60%
-- Flow 3:
Average throughput: 7.43 Mbit/s
95th percentile per-packet one-way delay: 13.102 ms
Loss rate: 1.71%

Run 9: Report of TCP Cubic — Data Link

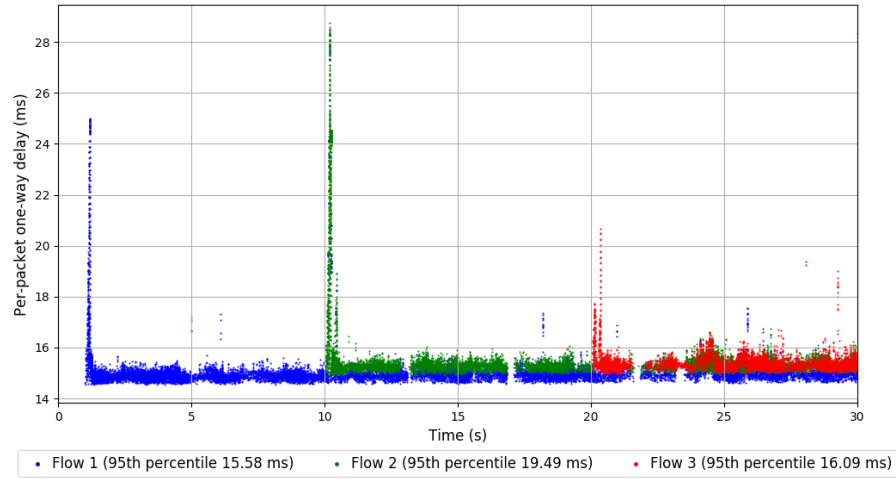
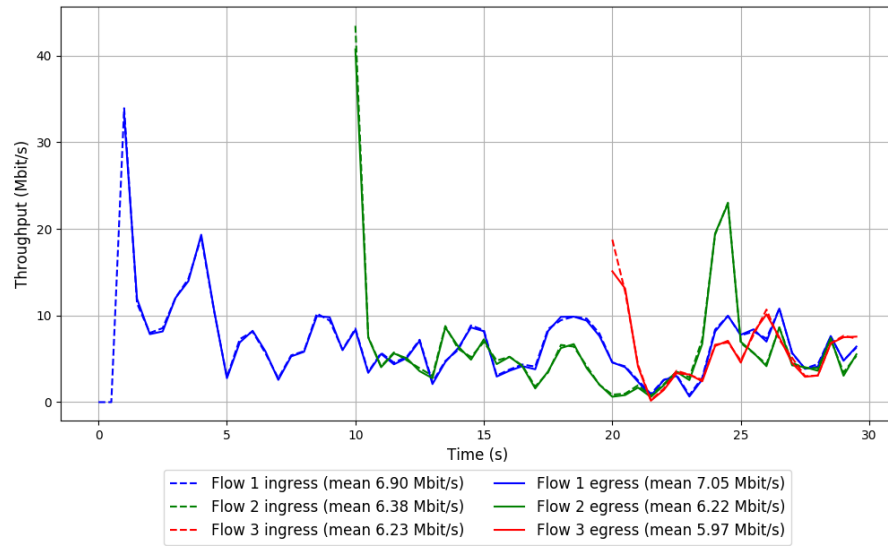


Run 10: Statistics of TCP Cubic

Start at: 2018-04-17 19:37:09
End at: 2018-04-17 19:37:39
Local clock offset: -13.911 ms
Remote clock offset: 1.191 ms

Below is generated by plot.py at 2018-04-17 20:28:14
Datalink statistics
-- Total of 3 flows:
Average throughput: 13.38 Mbit/s
95th percentile per-packet one-way delay: 16.129 ms
Loss rate: 2.09%
-- Flow 1:
Average throughput: 7.05 Mbit/s
95th percentile per-packet one-way delay: 15.581 ms
Loss rate: 1.25%
-- Flow 2:
Average throughput: 6.22 Mbit/s
95th percentile per-packet one-way delay: 19.487 ms
Loss rate: 2.52%
-- Flow 3:
Average throughput: 5.97 Mbit/s
95th percentile per-packet one-way delay: 16.094 ms
Loss rate: 3.99%

Run 10: Report of TCP Cubic — Data Link

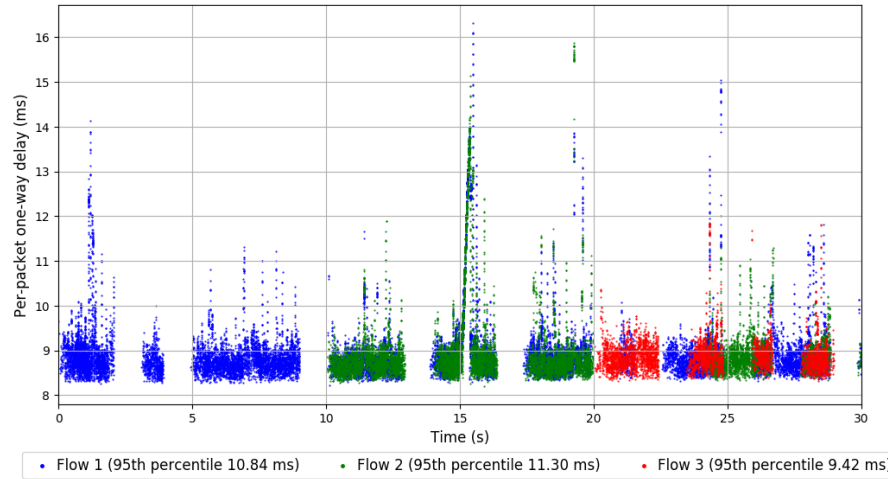
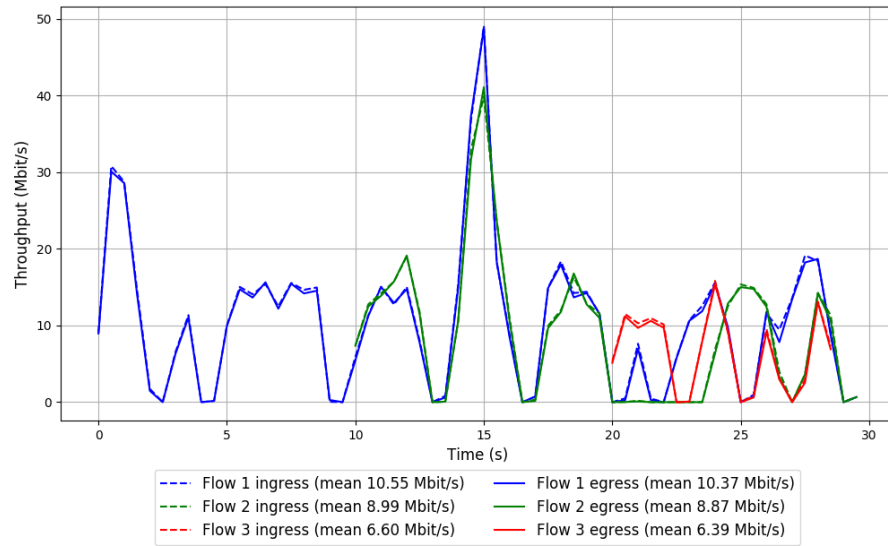



```
Run 1: Statistics of LEDBAT

Start at: 2018-04-17 16:49:58
End at: 2018-04-17 16:50:28
Local clock offset: -5.205 ms
Remote clock offset: -10.139 ms

# Below is generated by plot.py at 2018-04-17 20:28:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 18.18 Mbit/s
95th percentile per-packet one-way delay: 10.797 ms
Loss rate: 1.76%
-- Flow 1:
Average throughput: 10.37 Mbit/s
95th percentile per-packet one-way delay: 10.841 ms
Loss rate: 1.75%
-- Flow 2:
Average throughput: 8.87 Mbit/s
95th percentile per-packet one-way delay: 11.302 ms
Loss rate: 1.34%
-- Flow 3:
Average throughput: 6.39 Mbit/s
95th percentile per-packet one-way delay: 9.422 ms
Loss rate: 3.14%
```

Run 1: Report of LEDBAT — Data Link

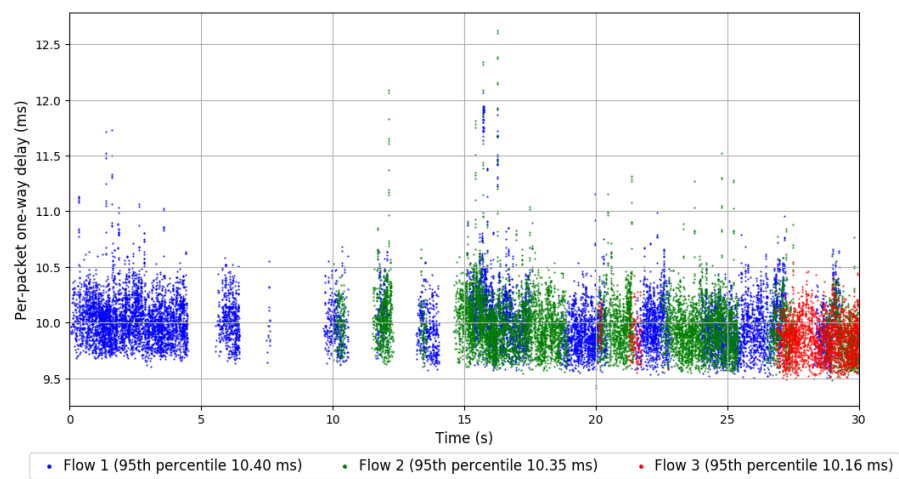
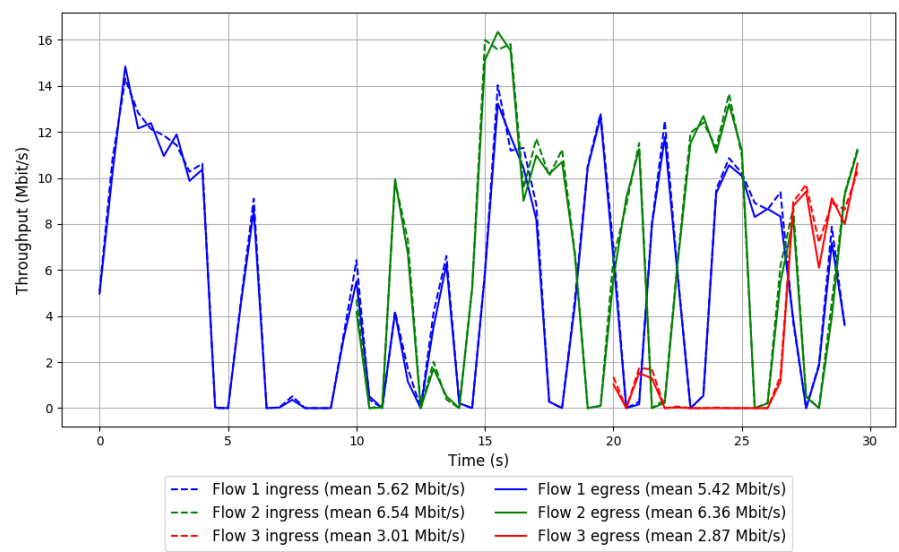


Run 2: Statistics of LEDBAT

Start at: 2018-04-17 17:09:57
End at: 2018-04-17 17:10:27
Local clock offset: -2.958 ms
Remote clock offset: -9.391 ms

Below is generated by plot.py at 2018-04-17 20:28:14
Datalink statistics
-- Total of 3 flows:
Average throughput: 10.48 Mbit/s
95th percentile per-packet one-way delay: 10.363 ms
Loss rate: 3.32%
-- Flow 1:
Average throughput: 5.42 Mbit/s
95th percentile per-packet one-way delay: 10.397 ms
Loss rate: 3.49%
-- Flow 2:
Average throughput: 6.36 Mbit/s
95th percentile per-packet one-way delay: 10.351 ms
Loss rate: 2.77%
-- Flow 3:
Average throughput: 2.87 Mbit/s
95th percentile per-packet one-way delay: 10.164 ms
Loss rate: 4.81%

Run 2: Report of LEDBAT — Data Link

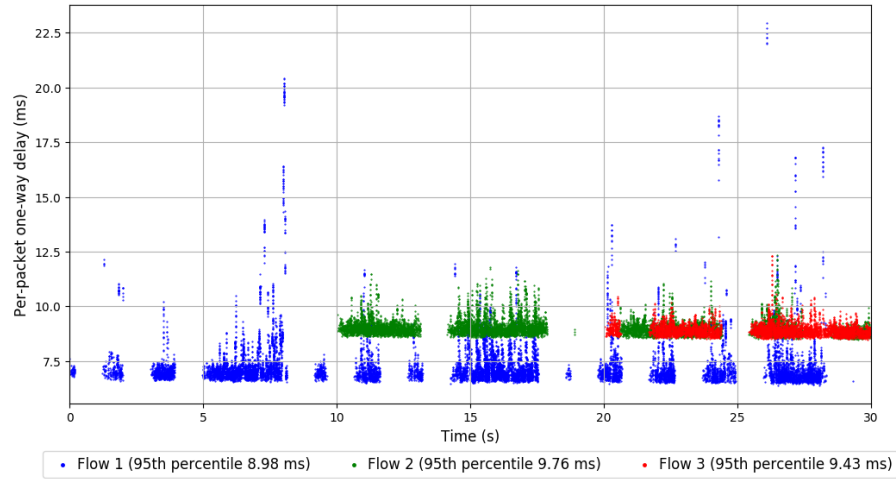
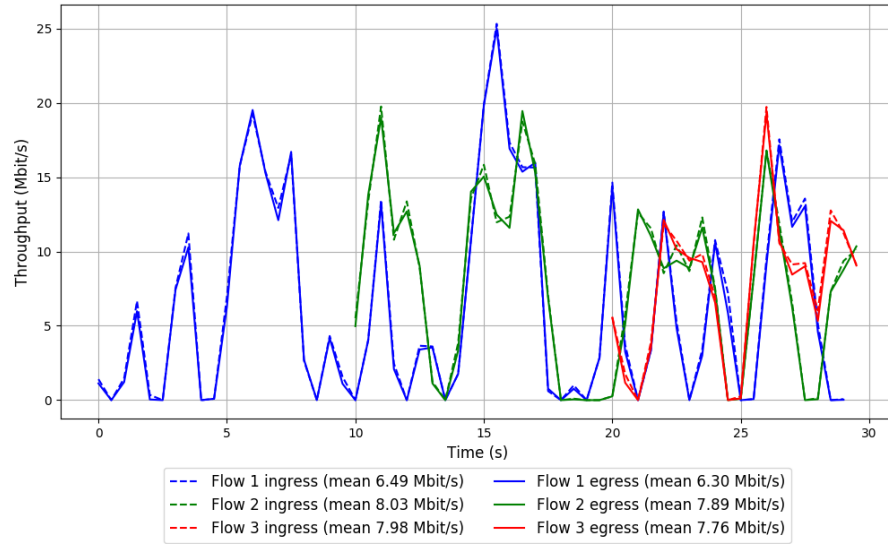


Run 3: Statistics of LEDBAT

Start at: 2018-04-17 17:30:03
End at: 2018-04-17 17:30:33
Local clock offset: -5.899 ms
Remote clock offset: -5.364 ms

Below is generated by plot.py at 2018-04-17 20:28:14
Datalink statistics
-- Total of 3 flows:
Average throughput: 13.99 Mbit/s
95th percentile per-packet one-way delay: 9.569 ms
Loss rate: 2.54%
-- Flow 1:
Average throughput: 6.30 Mbit/s
95th percentile per-packet one-way delay: 8.983 ms
Loss rate: 3.04%
-- Flow 2:
Average throughput: 7.89 Mbit/s
95th percentile per-packet one-way delay: 9.764 ms
Loss rate: 1.82%
-- Flow 3:
Average throughput: 7.76 Mbit/s
95th percentile per-packet one-way delay: 9.433 ms
Loss rate: 2.80%

Run 3: Report of LEDBAT — Data Link

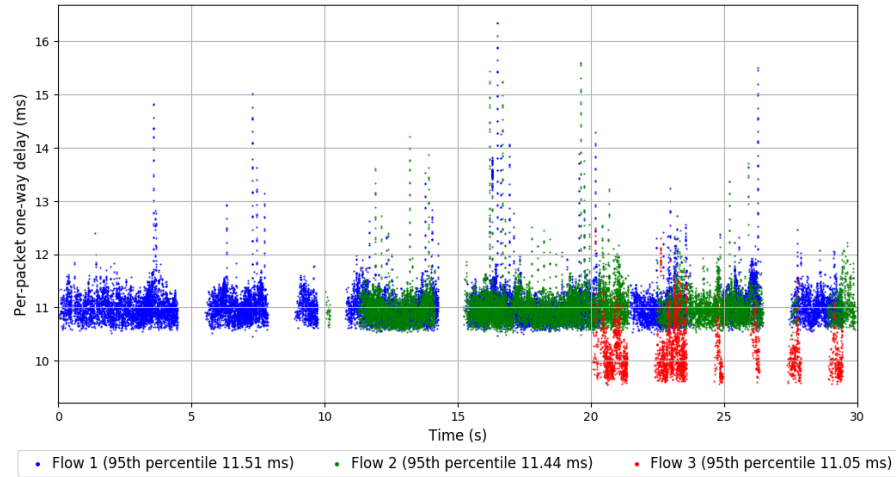
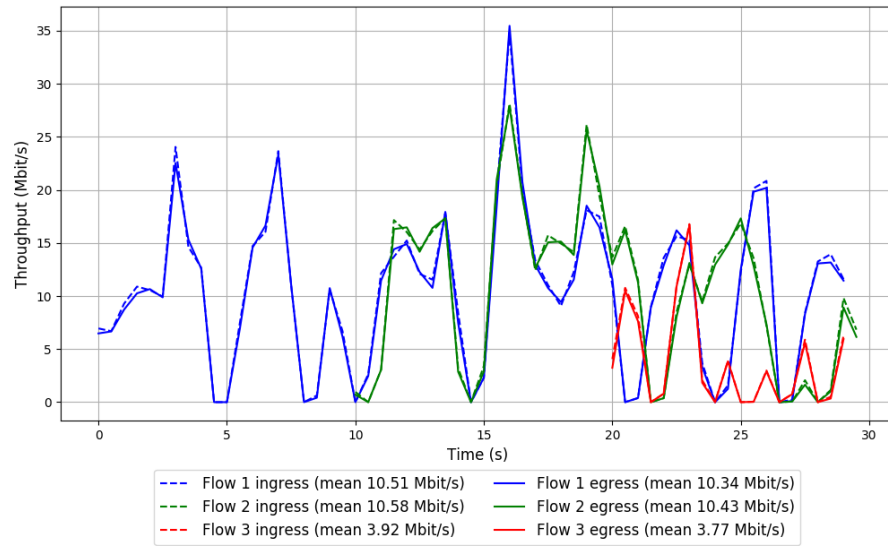


Run 4: Statistics of LEDBAT

Start at: 2018-04-17 17:49:54
End at: 2018-04-17 17:50:24
Local clock offset: -11.706 ms
Remote clock offset: -5.752 ms

Below is generated by plot.py at 2018-04-17 20:28:14
Datalink statistics
-- Total of 3 flows:
Average throughput: 18.29 Mbit/s
95th percentile per-packet one-way delay: 11.475 ms
Loss rate: 1.74%
-- Flow 1:
Average throughput: 10.34 Mbit/s
95th percentile per-packet one-way delay: 11.510 ms
Loss rate: 1.64%
-- Flow 2:
Average throughput: 10.43 Mbit/s
95th percentile per-packet one-way delay: 11.444 ms
Loss rate: 1.51%
-- Flow 3:
Average throughput: 3.77 Mbit/s
95th percentile per-packet one-way delay: 11.051 ms
Loss rate: 3.91%

Run 4: Report of LEDBAT — Data Link

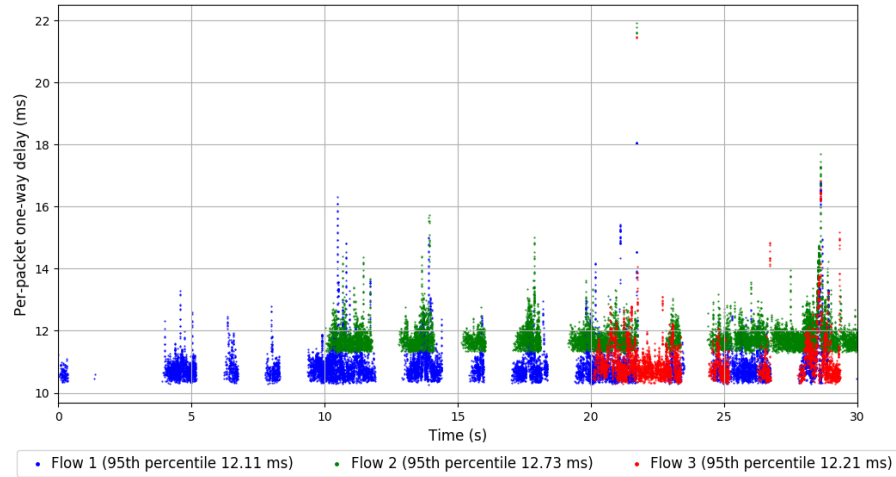
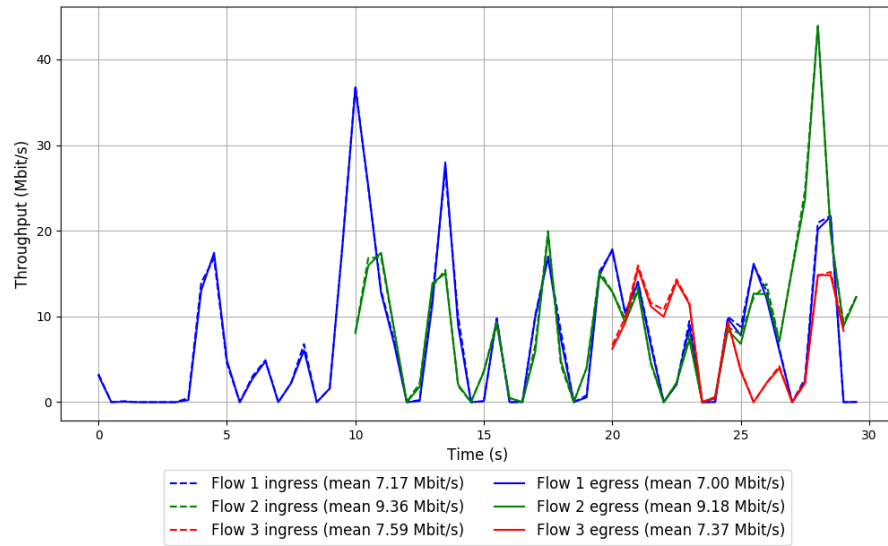


Run 5: Statistics of LEDBAT

Start at: 2018-04-17 18:10:01
End at: 2018-04-17 18:10:31
Local clock offset: -8.553 ms
Remote clock offset: -5.128 ms

Below is generated by plot.py at 2018-04-17 20:28:14
Datalink statistics
-- Total of 3 flows:
Average throughput: 15.40 Mbit/s
95th percentile per-packet one-way delay: 12.476 ms
Loss rate: 2.31%
-- Flow 1:
Average throughput: 7.00 Mbit/s
95th percentile per-packet one-way delay: 12.106 ms
Loss rate: 2.38%
-- Flow 2:
Average throughput: 9.18 Mbit/s
95th percentile per-packet one-way delay: 12.733 ms
Loss rate: 1.90%
-- Flow 3:
Average throughput: 7.37 Mbit/s
95th percentile per-packet one-way delay: 12.208 ms
Loss rate: 3.14%

Run 5: Report of LEDBAT — Data Link

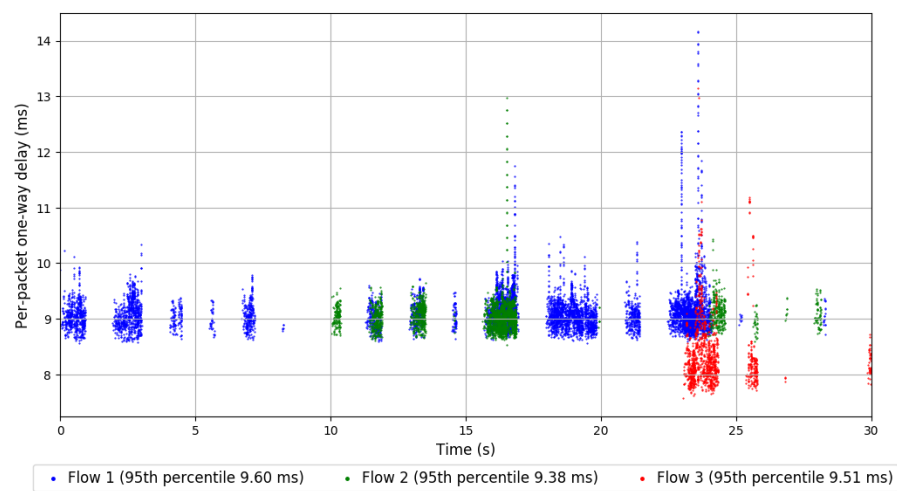
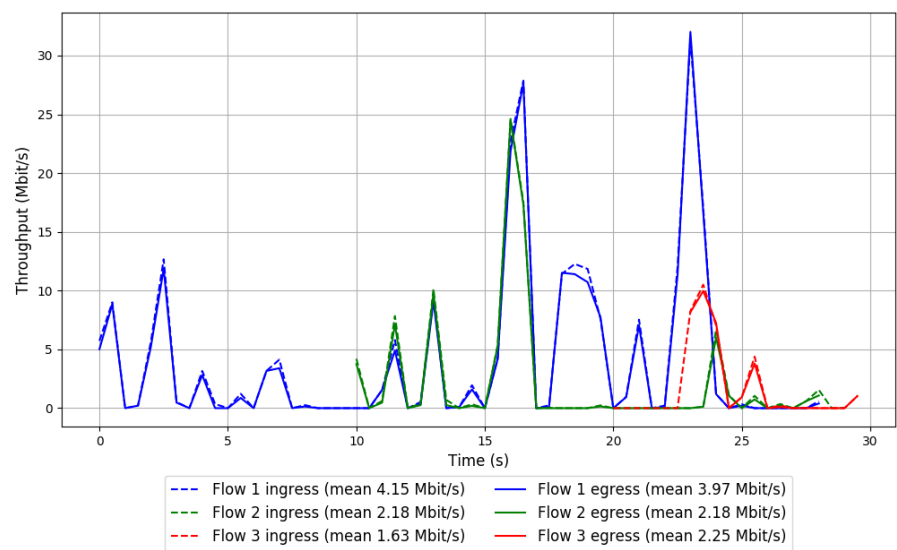


Run 6: Statistics of LEDBAT

Start at: 2018-04-17 18:29:58
End at: 2018-04-17 18:30:28
Local clock offset: -4.347 ms
Remote clock offset: -5.199 ms

Below is generated by plot.py at 2018-04-17 20:28:14
Datalink statistics
-- Total of 3 flows:
Average throughput: 5.59 Mbit/s
95th percentile per-packet one-way delay: 9.565 ms
Loss rate: 4.51%
-- Flow 1:
Average throughput: 3.97 Mbit/s
95th percentile per-packet one-way delay: 9.604 ms
Loss rate: 4.32%
-- Flow 2:
Average throughput: 2.18 Mbit/s
95th percentile per-packet one-way delay: 9.385 ms
Loss rate: 5.43%
-- Flow 3:
Average throughput: 2.25 Mbit/s
95th percentile per-packet one-way delay: 9.506 ms
Loss rate: 3.55%

Run 6: Report of LEDBAT — Data Link

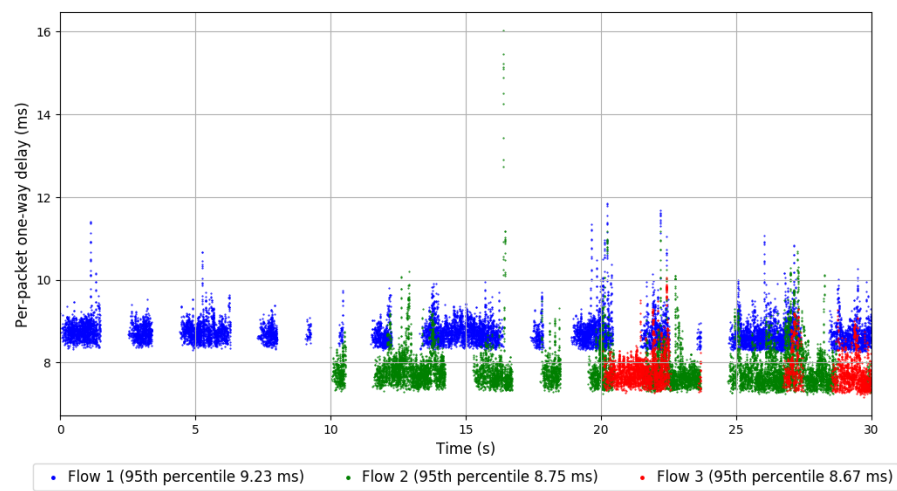
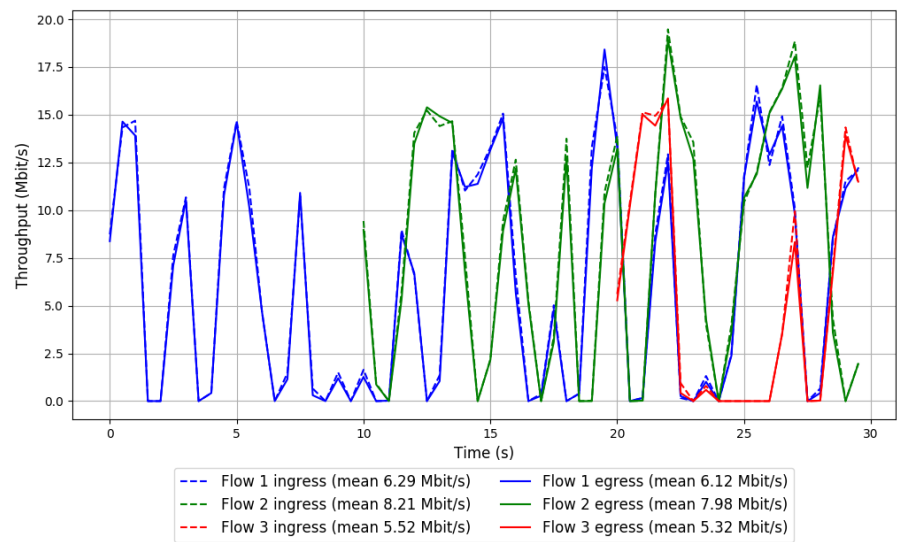


Run 7: Statistics of LEDBAT

Start at: 2018-04-17 18:50:13
End at: 2018-04-17 18:50:43
Local clock offset: -1.82 ms
Remote clock offset: -3.636 ms

```
# Below is generated by plot.py at 2018-04-17 20:28:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 13.20 Mbit/s
95th percentile per-packet one-way delay: 9.091 ms
Loss rate: 2.83%
-- Flow 1:
Average throughput: 6.12 Mbit/s
95th percentile per-packet one-way delay: 9.231 ms
Loss rate: 2.69%
-- Flow 2:
Average throughput: 7.98 Mbit/s
95th percentile per-packet one-way delay: 8.750 ms
Loss rate: 2.73%
-- Flow 3:
Average throughput: 5.32 Mbit/s
95th percentile per-packet one-way delay: 8.673 ms
Loss rate: 3.59%
```

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-04-17 19:10:03

End at: 2018-04-17 19:10:33

Local clock offset: -8.236 ms

Remote clock offset: 0.037 ms

Below is generated by plot.py at 2018-04-17 20:28:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 9.16 Mbit/s

95th percentile per-packet one-way delay: 13.012 ms

Loss rate: 3.97%

-- Flow 1:

Average throughput: 5.23 Mbit/s

95th percentile per-packet one-way delay: 13.070 ms

Loss rate: 4.25%

-- Flow 2:

Average throughput: 4.43 Mbit/s

95th percentile per-packet one-way delay: 12.876 ms

Loss rate: 3.28%

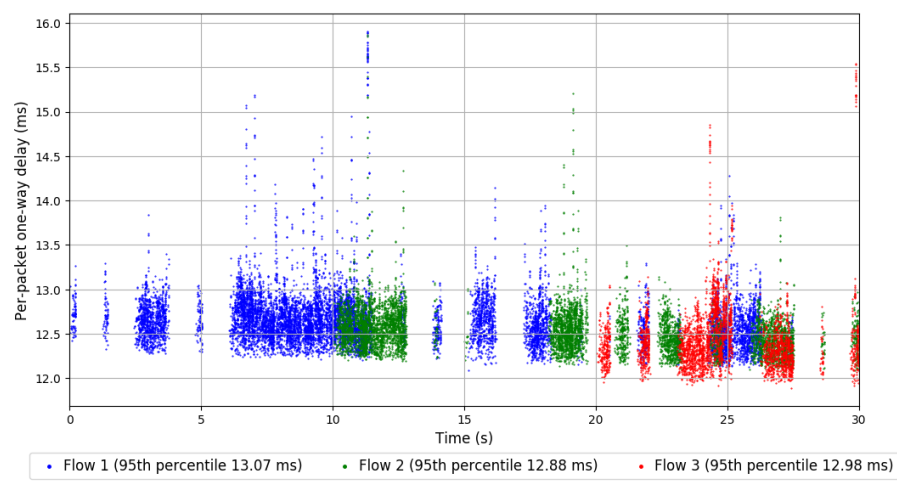
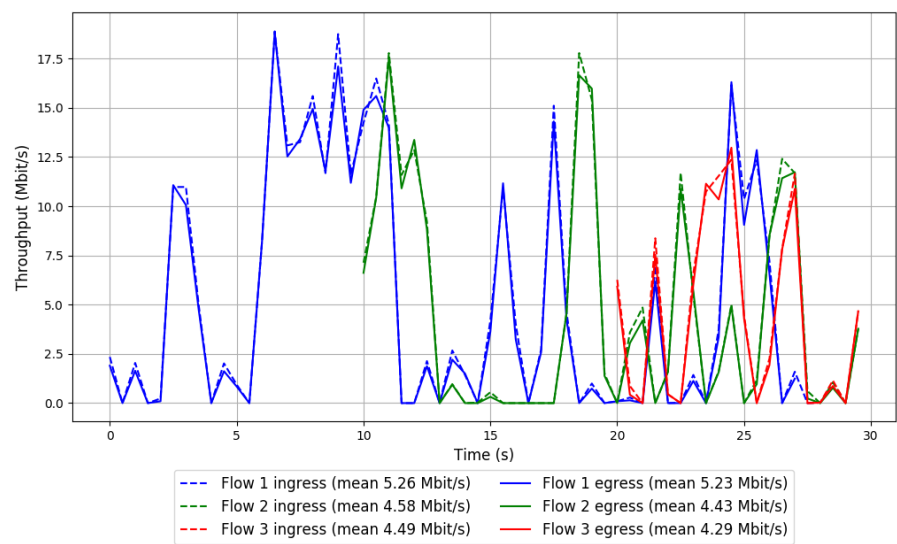
-- Flow 3:

Average throughput: 4.29 Mbit/s

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

Loss rate: 4.44%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-04-17 19:29:59

End at: 2018-04-17 19:30:29

Local clock offset: -7.474 ms

Remote clock offset: 0.774 ms

Below is generated by plot.py at 2018-04-17 20:28:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 17.23 Mbit/s

95th percentile per-packet one-way delay: 10.061 ms

Loss rate: 2.01%

-- Flow 1:

Average throughput: 9.97 Mbit/s

95th percentile per-packet one-way delay: 9.774 ms

Loss rate: 1.64%

-- Flow 2:

Average throughput: 8.54 Mbit/s

95th percentile per-packet one-way delay: 10.299 ms

Loss rate: 2.30%

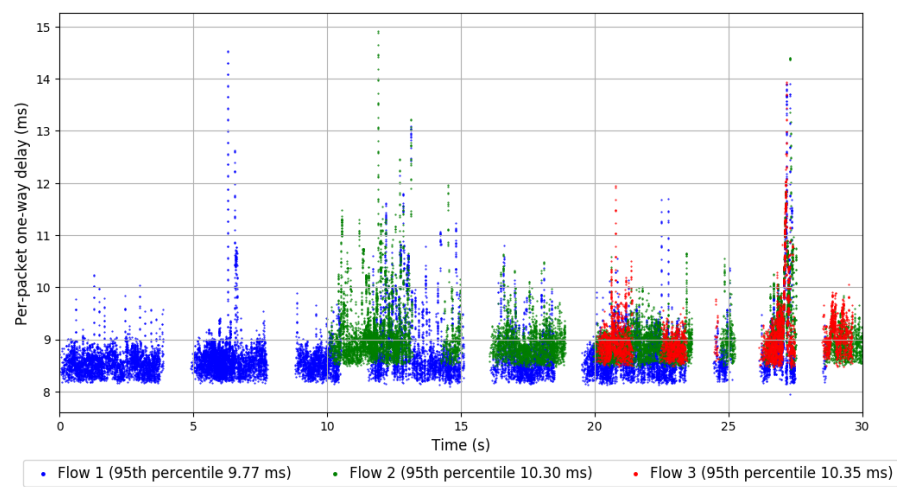
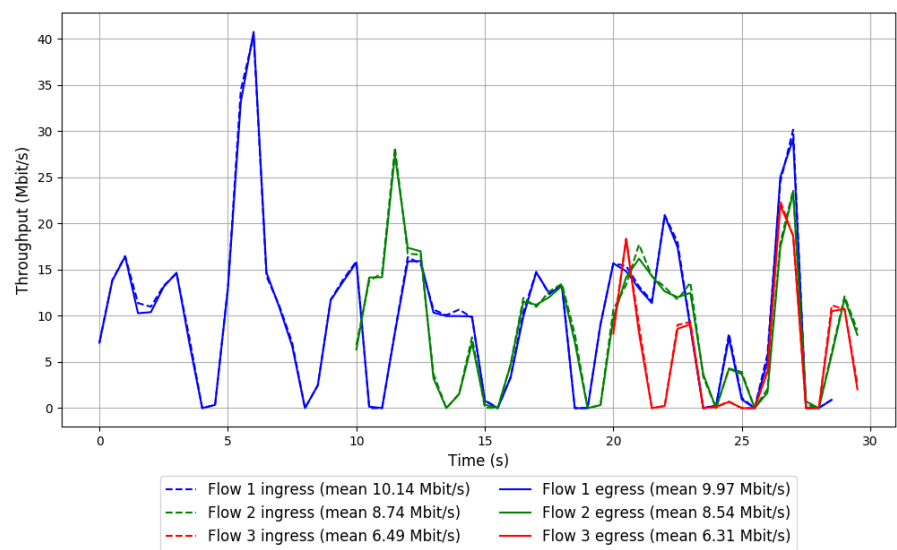
-- Flow 3:

Average throughput: 6.31 Mbit/s

95th percentile per-packet one-way delay: 10.350 ms

Loss rate: 2.93%

Run 9: Report of LEDBAT — Data Link

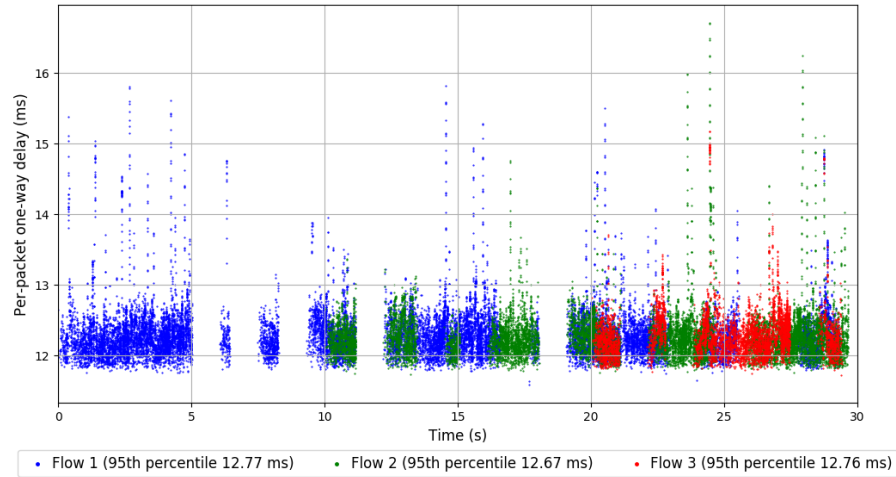
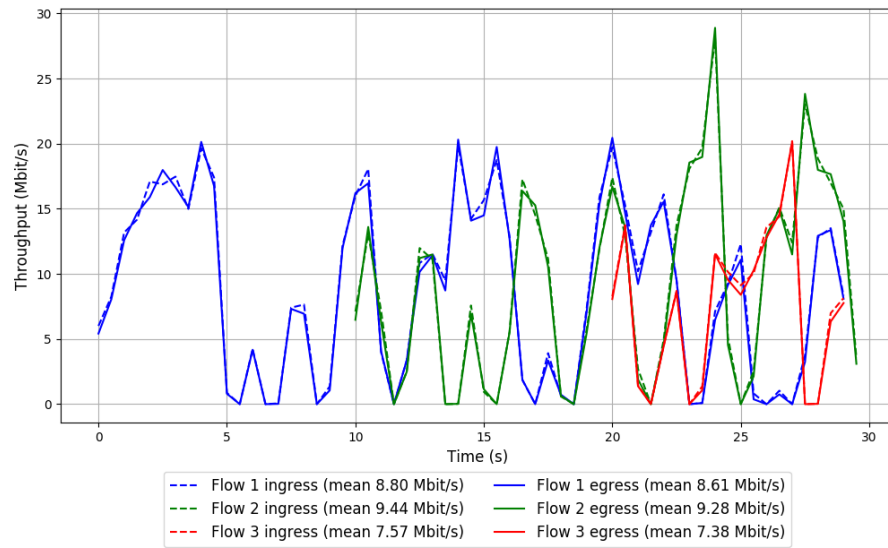


Run 10: Statistics of LEDBAT

Start at: 2018-04-17 19:50:14
End at: 2018-04-17 19:50:44
Local clock offset: -9.149 ms
Remote clock offset: 1.997 ms

Below is generated by plot.py at 2018-04-17 20:28:14
Datalink statistics
-- Total of 3 flows:
Average throughput: 17.00 Mbit/s
95th percentile per-packet one-way delay: 12.733 ms
Loss rate: 2.13%
-- Flow 1:
Average throughput: 8.61 Mbit/s
95th percentile per-packet one-way delay: 12.766 ms
Loss rate: 2.20%
-- Flow 2:
Average throughput: 9.28 Mbit/s
95th percentile per-packet one-way delay: 12.674 ms
Loss rate: 1.84%
-- Flow 3:
Average throughput: 7.38 Mbit/s
95th percentile per-packet one-way delay: 12.758 ms
Loss rate: 2.60%

Run 10: Report of LEDBAT — Data Link

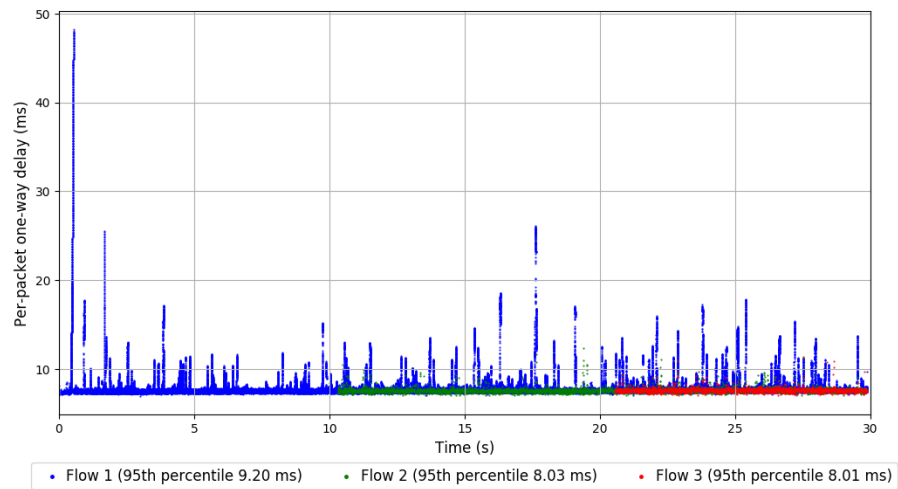
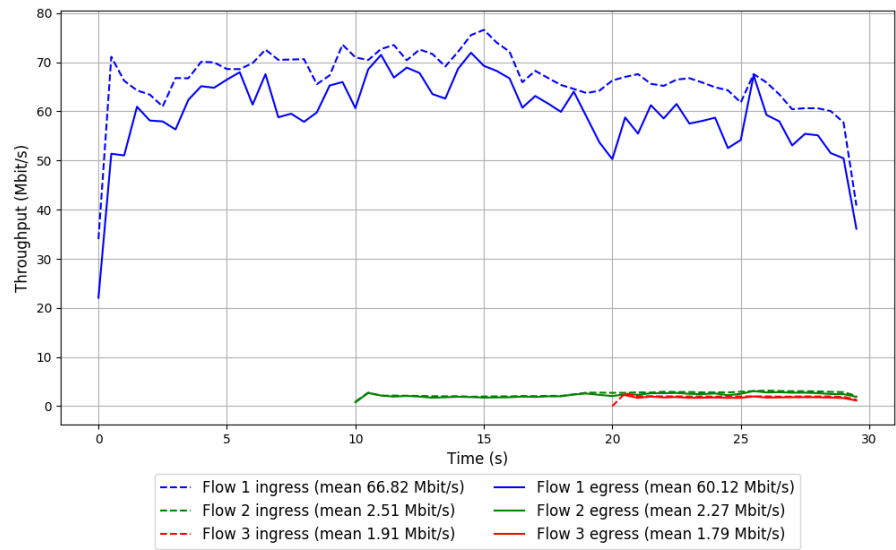


```
Run 1: Statistics of PCC-Allegro

Start at: 2018-04-17 16:48:50
End at: 2018-04-17 16:49:20
Local clock offset: -4.432 ms
Remote clock offset: -10.181 ms

# Below is generated by plot.py at 2018-04-17 20:28:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 62.19 Mbit/s
95th percentile per-packet one-way delay: 9.118 ms
Loss rate: 10.03%
-- Flow 1:
Average throughput: 60.12 Mbit/s
95th percentile per-packet one-way delay: 9.204 ms
Loss rate: 10.02%
-- Flow 2:
Average throughput: 2.27 Mbit/s
95th percentile per-packet one-way delay: 8.031 ms
Loss rate: 9.73%
-- Flow 3:
Average throughput: 1.79 Mbit/s
95th percentile per-packet one-way delay: 8.013 ms
Loss rate: 11.01%
```

Run 1: Report of PCC-Allegro — Data Link

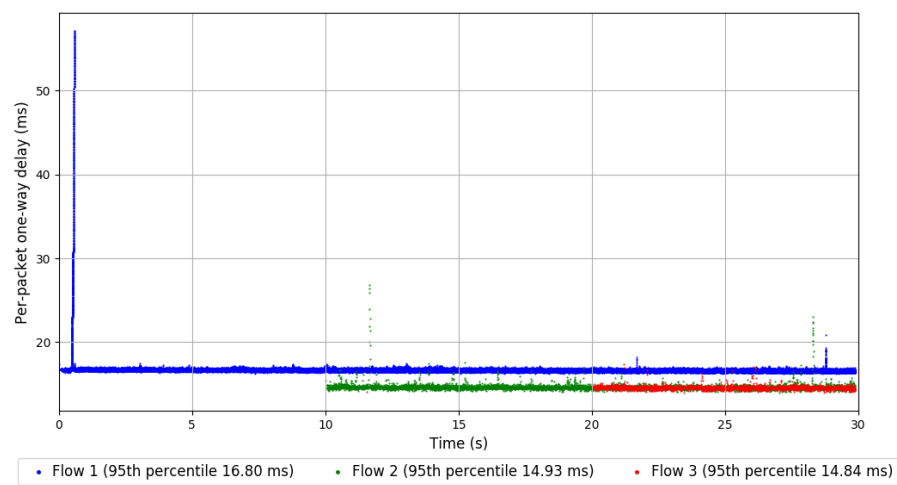
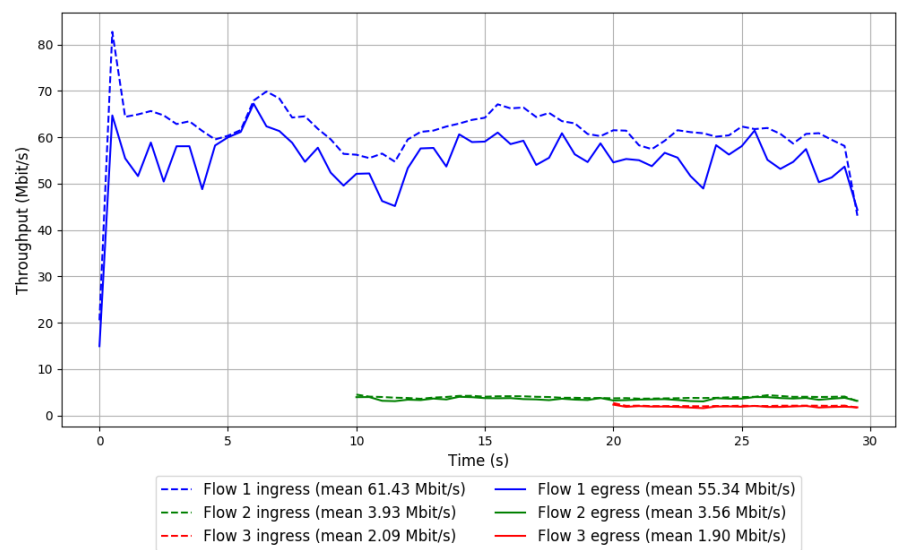


Run 2: Statistics of PCC-Allegro

Start at: 2018-04-17 17:08:47
End at: 2018-04-17 17:09:17
Local clock offset: -9.557 ms
Remote clock offset: -9.632 ms

Below is generated by plot.py at 2018-04-17 20:28:49
Datalink statistics
-- Total of 3 flows:
Average throughput: 58.34 Mbit/s
95th percentile per-packet one-way delay: 16.802 ms
Loss rate: 9.88%
-- Flow 1:
Average throughput: 55.34 Mbit/s
95th percentile per-packet one-way delay: 16.805 ms
Loss rate: 9.91%
-- Flow 2:
Average throughput: 3.56 Mbit/s
95th percentile per-packet one-way delay: 14.934 ms
Loss rate: 9.41%
-- Flow 3:
Average throughput: 1.90 Mbit/s
95th percentile per-packet one-way delay: 14.841 ms
Loss rate: 8.91%

Run 2: Report of PCC-Allegro — Data Link

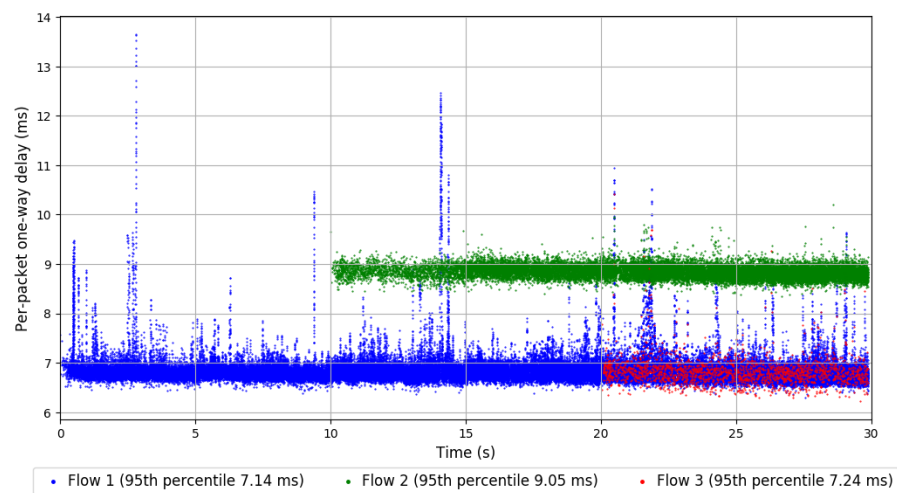
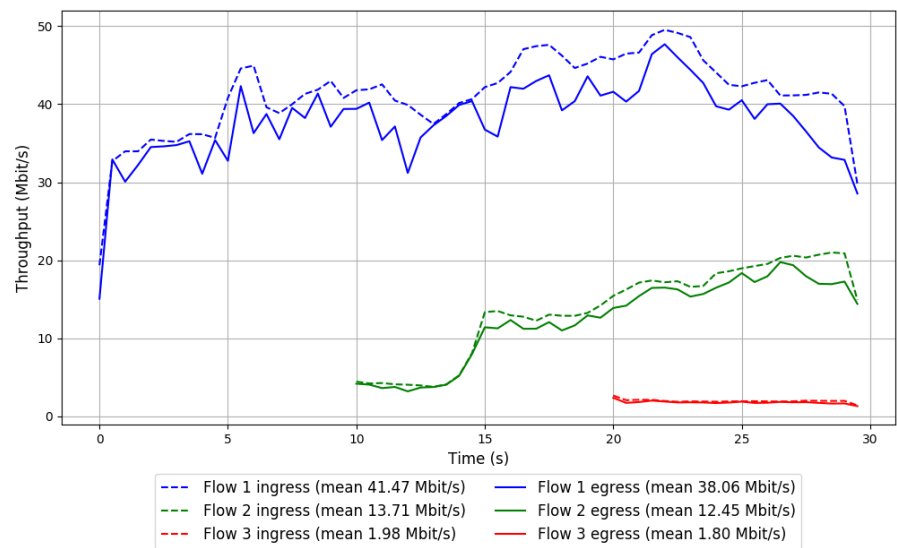


Run 3: Statistics of PCC-Allegro

Start at: 2018-04-17 17:28:50
End at: 2018-04-17 17:29:20
Local clock offset: -5.898 ms
Remote clock offset: -5.791 ms

Below is generated by plot.py at 2018-04-17 20:28:49
Datalink statistics
-- Total of 3 flows:
Average throughput: 46.93 Mbit/s
95th percentile per-packet one-way delay: 8.924 ms
Loss rate: 8.41%
-- Flow 1:
Average throughput: 38.06 Mbit/s
95th percentile per-packet one-way delay: 7.141 ms
Loss rate: 8.23%
-- Flow 2:
Average throughput: 12.45 Mbit/s
95th percentile per-packet one-way delay: 9.054 ms
Loss rate: 9.18%
-- Flow 3:
Average throughput: 1.80 Mbit/s
95th percentile per-packet one-way delay: 7.243 ms
Loss rate: 9.18%

Run 3: Report of PCC-Allegro — Data Link

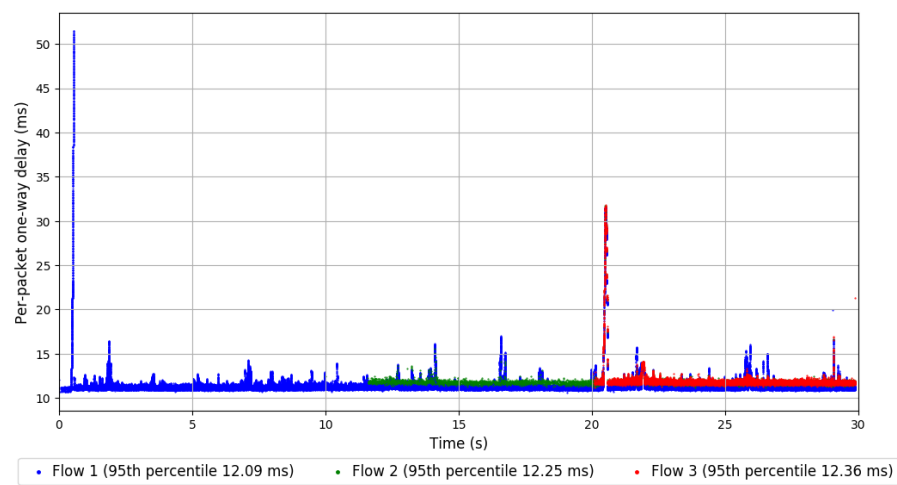
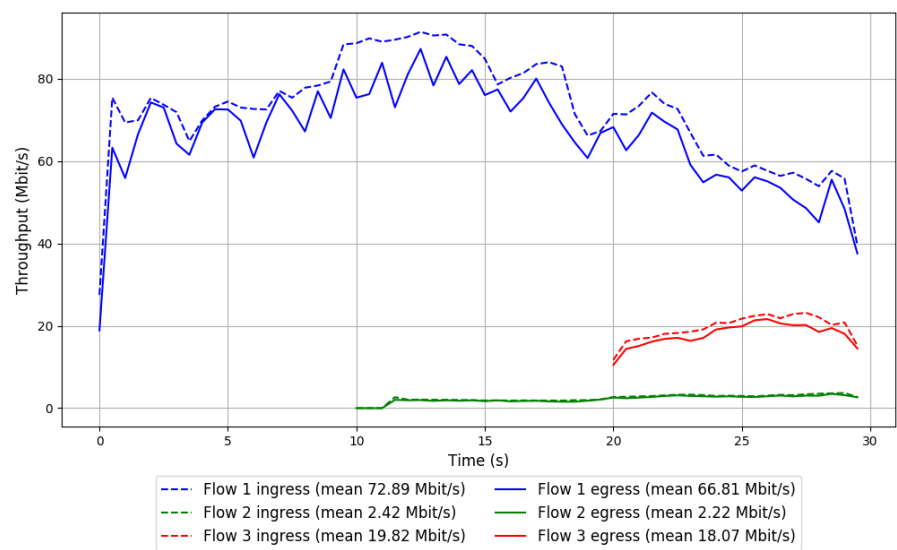


Run 4: Statistics of PCC-Allegro

Start at: 2018-04-17 17:48:45
End at: 2018-04-17 17:49:15
Local clock offset: -12.074 ms
Remote clock offset: -5.297 ms

Below is generated by plot.py at 2018-04-17 20:29:03
Datalink statistics
-- Total of 3 flows:
Average throughput: 74.22 Mbit/s
95th percentile per-packet one-way delay: 12.153 ms
Loss rate: 8.38%
-- Flow 1:
Average throughput: 66.81 Mbit/s
95th percentile per-packet one-way delay: 12.090 ms
Loss rate: 8.35%
-- Flow 2:
Average throughput: 2.22 Mbit/s
95th percentile per-packet one-way delay: 12.253 ms
Loss rate: 8.30%
-- Flow 3:
Average throughput: 18.07 Mbit/s
95th percentile per-packet one-way delay: 12.357 ms
Loss rate: 8.74%

Run 4: Report of PCC-Allegro — Data Link

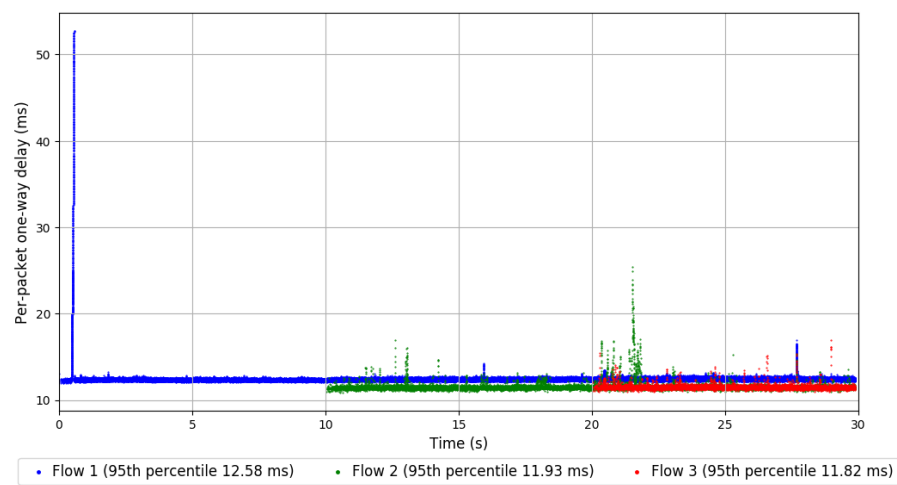
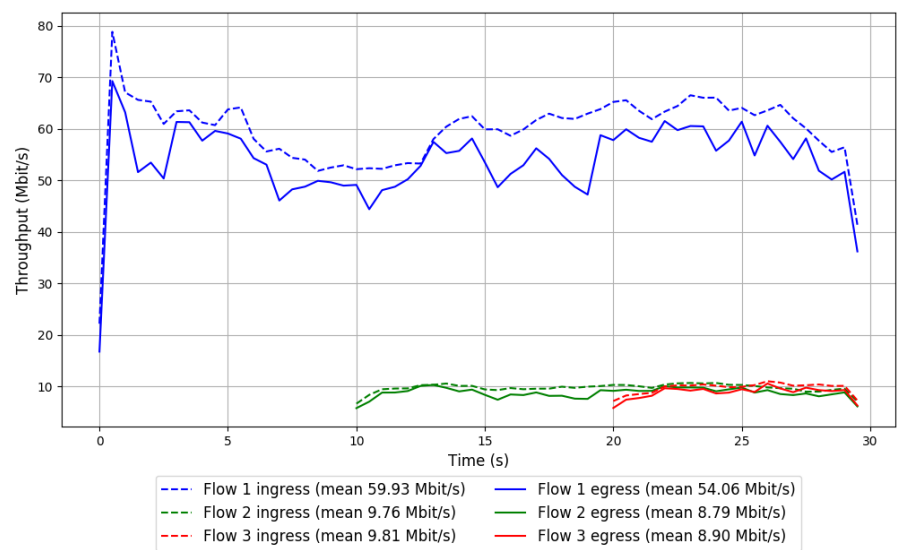


Run 5: Statistics of PCC-Allegro

Start at: 2018-04-17 18:08:51
End at: 2018-04-17 18:09:21
Local clock offset: -8.917 ms
Remote clock offset: -4.585 ms

Below is generated by plot.py at 2018-04-17 20:29:03
Datalink statistics
-- Total of 3 flows:
Average throughput: 62.84 Mbit/s
95th percentile per-packet one-way delay: 12.576 ms
Loss rate: 9.79%
-- Flow 1:
Average throughput: 54.06 Mbit/s
95th percentile per-packet one-way delay: 12.584 ms
Loss rate: 9.79%
-- Flow 2:
Average throughput: 8.79 Mbit/s
95th percentile per-packet one-way delay: 11.930 ms
Loss rate: 9.99%
-- Flow 3:
Average throughput: 8.90 Mbit/s
95th percentile per-packet one-way delay: 11.819 ms
Loss rate: 9.30%

Run 5: Report of PCC-Allegro — Data Link

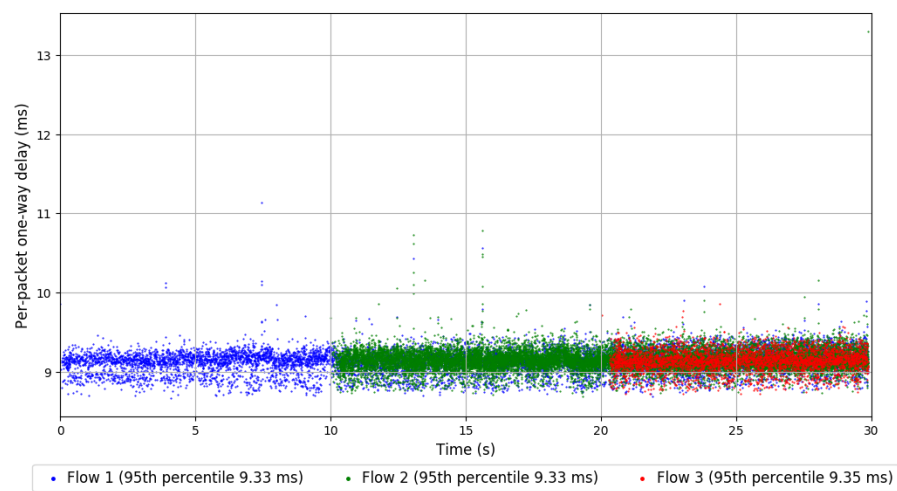
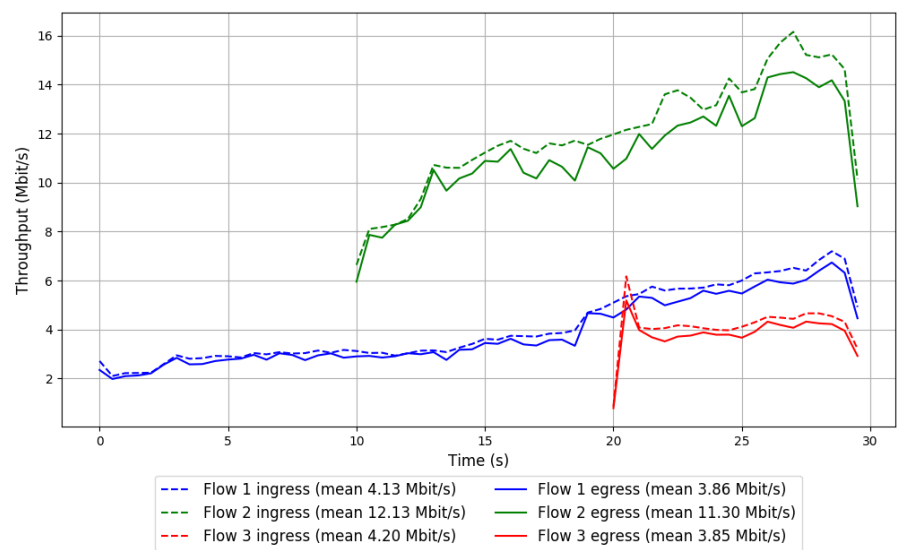


Run 6: Statistics of PCC-Allegro

Start at: 2018-04-17 18:28:50
End at: 2018-04-17 18:29:20
Local clock offset: -4.511 ms
Remote clock offset: -4.894 ms

Below is generated by plot.py at 2018-04-17 20:29:03
Datalink statistics
-- Total of 3 flows:
Average throughput: 12.65 Mbit/s
95th percentile per-packet one-way delay: 9.335 ms
Loss rate: 6.83%
-- Flow 1:
Average throughput: 3.86 Mbit/s
95th percentile per-packet one-way delay: 9.334 ms
Loss rate: 6.35%
-- Flow 2:
Average throughput: 11.30 Mbit/s
95th percentile per-packet one-way delay: 9.331 ms
Loss rate: 6.82%
-- Flow 3:
Average throughput: 3.85 Mbit/s
95th percentile per-packet one-way delay: 9.350 ms
Loss rate: 8.28%

Run 6: Report of PCC-Allegro — Data Link

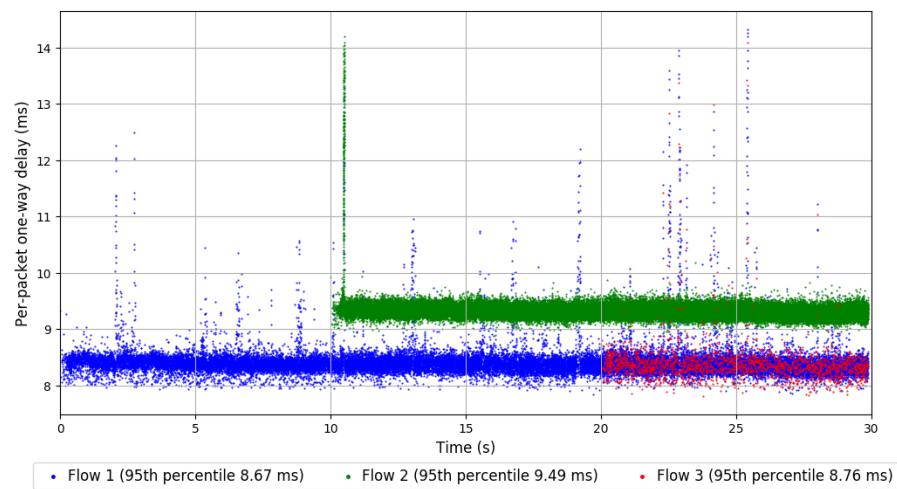
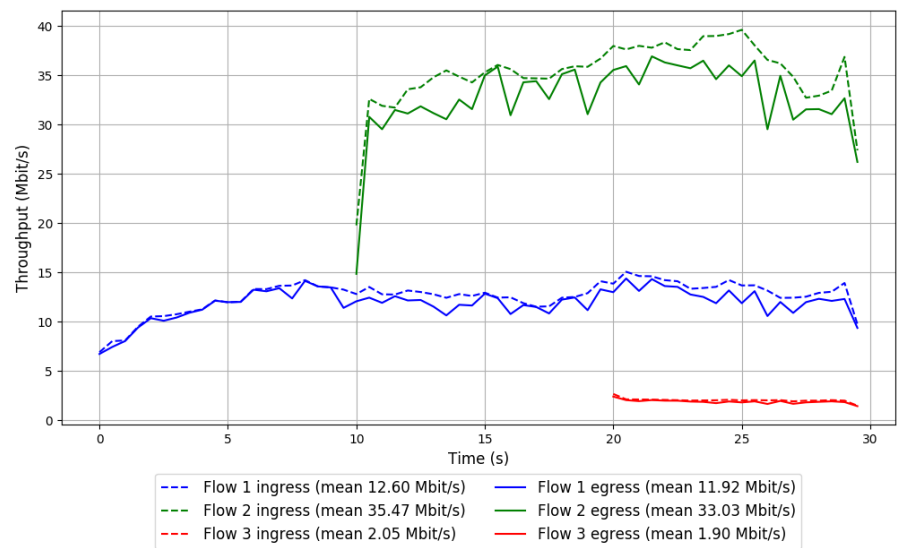


Run 7: Statistics of PCC-Allegro

Start at: 2018-04-17 18:49:05
End at: 2018-04-17 18:49:35
Local clock offset: -3.159 ms
Remote clock offset: -4.429 ms

Below is generated by plot.py at 2018-04-17 20:29:03
Datalink statistics
-- Total of 3 flows:
Average throughput: 34.51 Mbit/s
95th percentile per-packet one-way delay: 9.471 ms
Loss rate: 6.41%
-- Flow 1:
Average throughput: 11.92 Mbit/s
95th percentile per-packet one-way delay: 8.668 ms
Loss rate: 5.44%
-- Flow 2:
Average throughput: 33.03 Mbit/s
95th percentile per-packet one-way delay: 9.489 ms
Loss rate: 6.90%
-- Flow 3:
Average throughput: 1.90 Mbit/s
95th percentile per-packet one-way delay: 8.761 ms
Loss rate: 7.50%

Run 7: Report of PCC-Allegro — Data Link

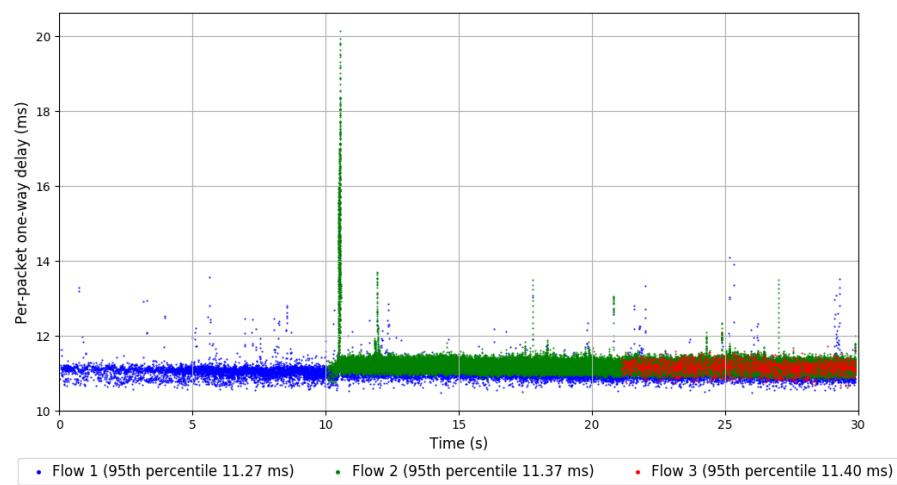
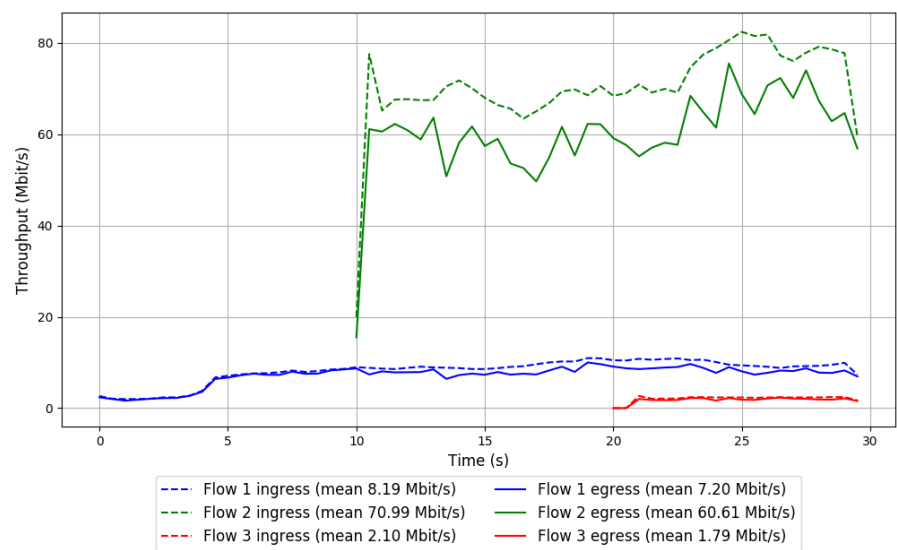


Run 8: Statistics of PCC-Allegro

Start at: 2018-04-17 19:08:53
End at: 2018-04-17 19:09:23
Local clock offset: -7.755 ms
Remote clock offset: -1.197 ms

Below is generated by plot.py at 2018-04-17 20:29:03
Datalink statistics
-- Total of 3 flows:
Average throughput: 48.09 Mbit/s
95th percentile per-packet one-way delay: 11.362 ms
Loss rate: 14.25%
-- Flow 1:
Average throughput: 7.20 Mbit/s
95th percentile per-packet one-way delay: 11.267 ms
Loss rate: 12.07%
-- Flow 2:
Average throughput: 60.61 Mbit/s
95th percentile per-packet one-way delay: 11.368 ms
Loss rate: 14.62%
-- Flow 3:
Average throughput: 1.79 Mbit/s
95th percentile per-packet one-way delay: 11.402 ms
Loss rate: 14.76%

Run 8: Report of PCC-Allegro — Data Link



Run 9: Statistics of PCC-Allegro

Start at: 2018-04-17 19:28:50

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

Local clock offset: -9.043 ms

Remote clock offset: 0.523 ms

Below is generated by plot.py at 2018-04-17 20:29:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 76.11 Mbit/s

95th percentile per-packet one-way delay: 10.328 ms

Loss rate: 10.79%

-- Flow 1:

Average throughput: 73.59 Mbit/s

95th percentile per-packet one-way delay: 10.294 ms

Loss rate: 10.78%

-- Flow 2:

Average throughput: 2.97 Mbit/s

95th percentile per-packet one-way delay: 10.256 ms

Loss rate: 11.19%

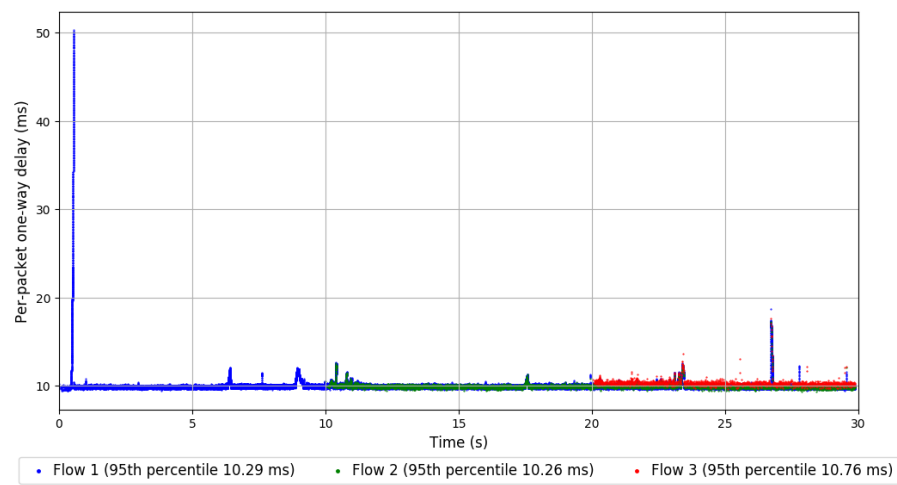
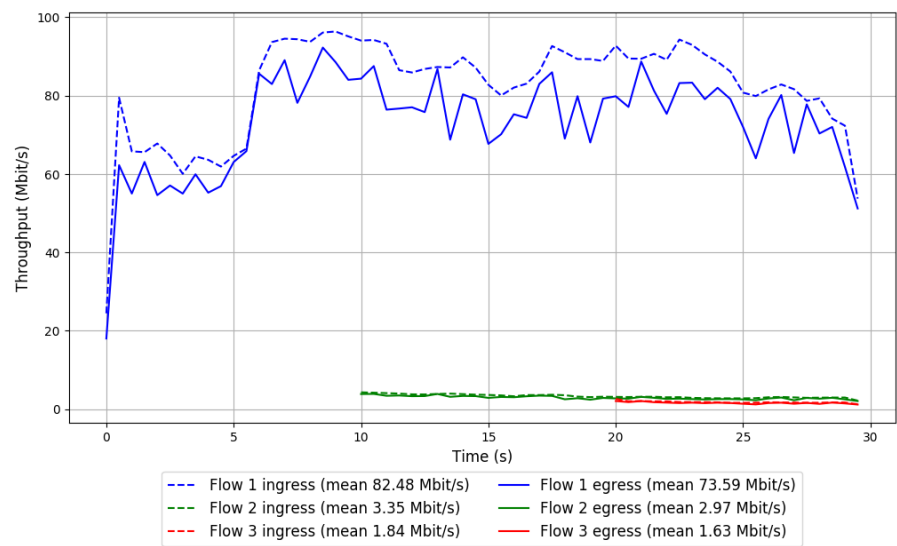
-- Flow 3:

Average throughput: 1.63 Mbit/s

95th percentile per-packet one-way delay: 10.760 ms

Loss rate: 11.27%

Run 9: Report of PCC-Allegro — Data Link



Run 10: Statistics of PCC-Allegro

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

End at: 2018-04-17 19:49:34

Local clock offset: -6.528 ms

Remote clock offset: 1.958 ms

Below is generated by plot.py at 2018-04-17 20:30:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 78.35 Mbit/s

95th percentile per-packet one-way delay: 10.257 ms

Loss rate: 8.24%

-- Flow 1:

Average throughput: 74.49 Mbit/s

95th percentile per-packet one-way delay: 10.247 ms

Loss rate: 8.31%

-- Flow 2:

Average throughput: 3.91 Mbit/s

95th percentile per-packet one-way delay: 9.829 ms

Loss rate: 7.29%

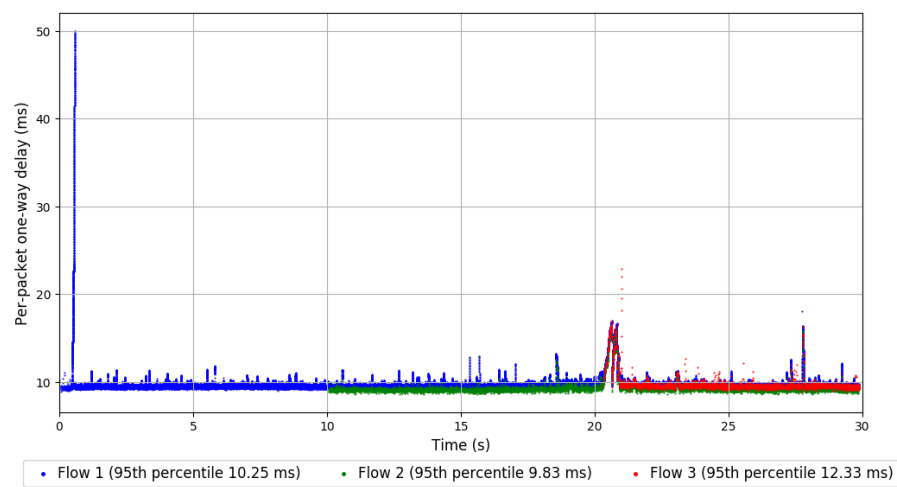
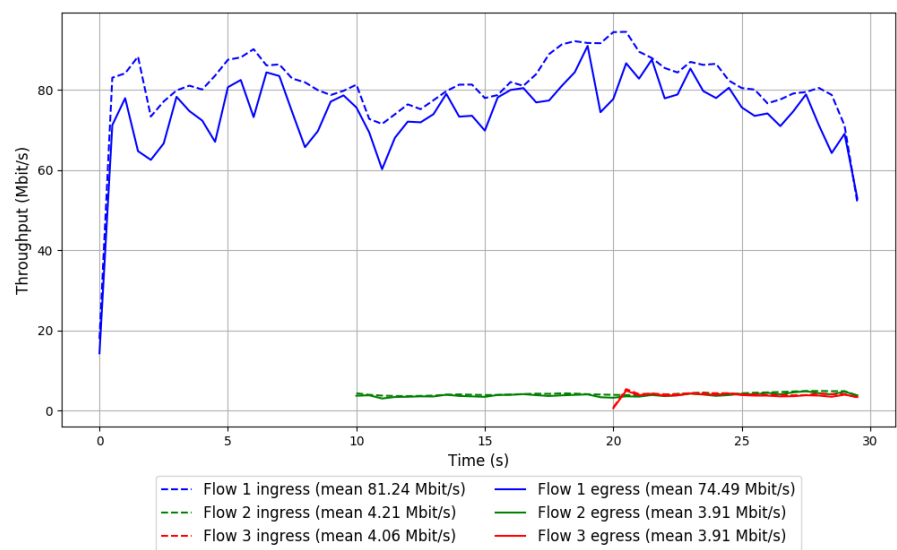
-- Flow 3:

Average throughput: 3.91 Mbit/s

95th percentile per-packet one-way delay: 12.326 ms

Loss rate: 5.98%

Run 10: Report of PCC-Allegro — Data Link

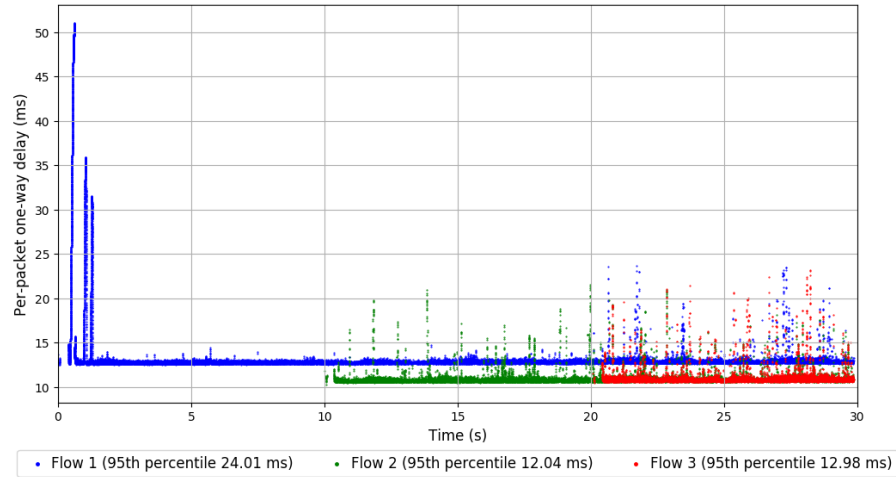
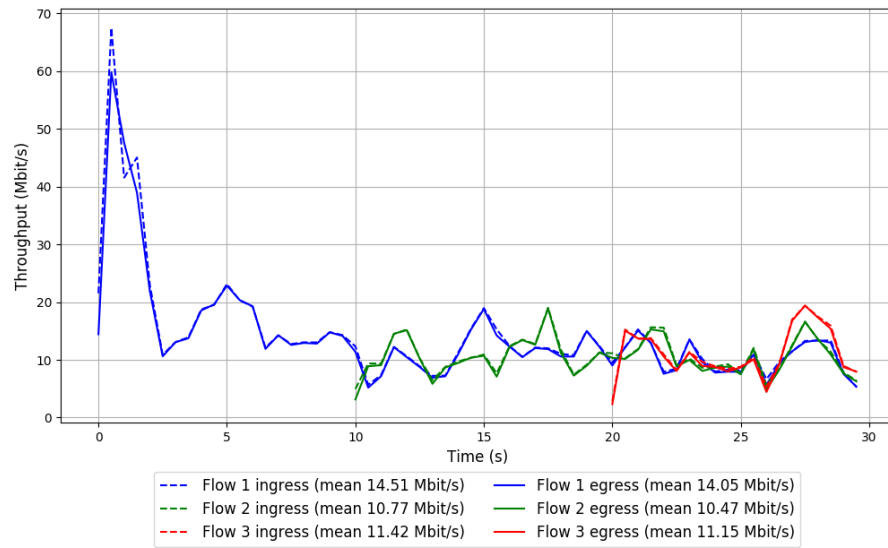


Run 1: Statistics of QUIC Cubic

Start at: 2018-04-17 16:51:04
End at: 2018-04-17 16:51:34
Local clock offset: -7.321 ms
Remote clock offset: -10.226 ms

Below is generated by plot.py at 2018-04-17 20:30:07
Datalink statistics
-- Total of 3 flows:
Average throughput: 24.66 Mbit/s
95th percentile per-packet one-way delay: 15.285 ms
Loss rate: 2.96%
-- Flow 1:
Average throughput: 14.05 Mbit/s
95th percentile per-packet one-way delay: 24.011 ms
Loss rate: 3.19%
-- Flow 2:
Average throughput: 10.47 Mbit/s
95th percentile per-packet one-way delay: 12.035 ms
Loss rate: 2.78%
-- Flow 3:
Average throughput: 11.15 Mbit/s
95th percentile per-packet one-way delay: 12.981 ms
Loss rate: 2.40%

Run 1: Report of QUIC Cubic — Data Link

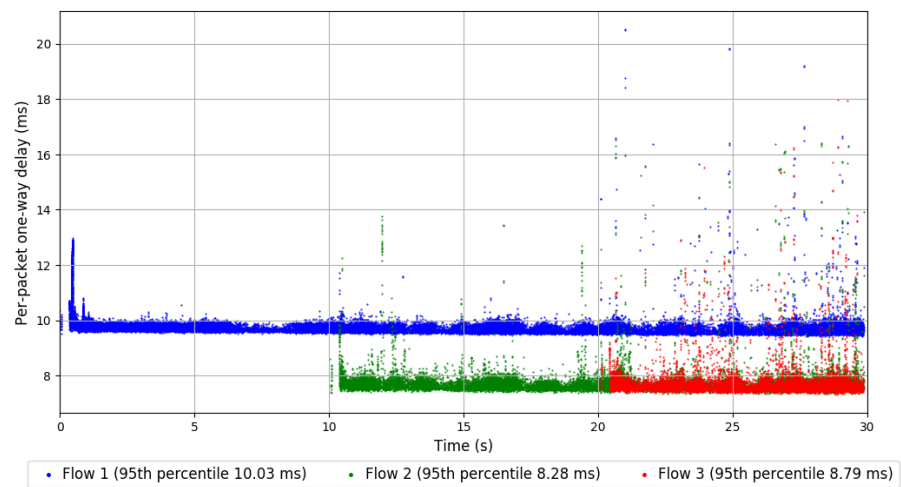
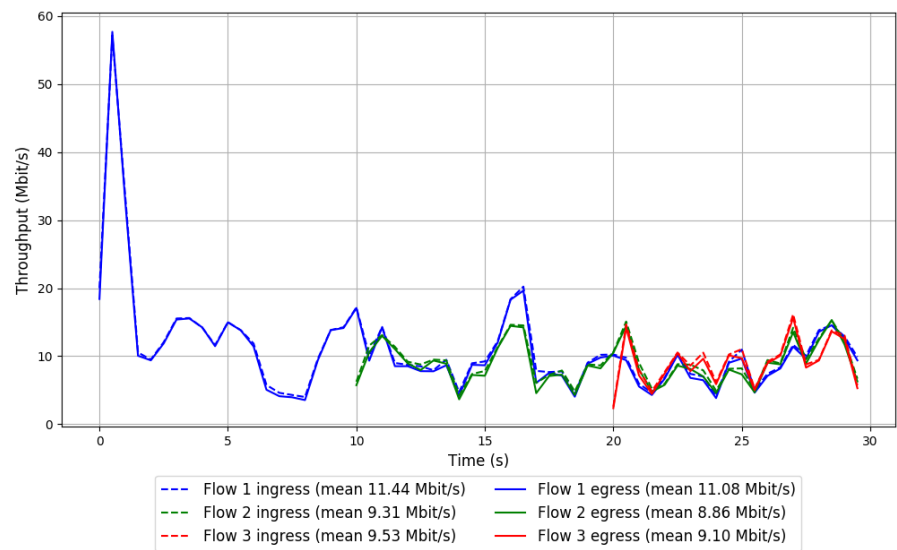


Run 2: Statistics of QUIC Cubic

Start at: 2018-04-17 17:11:04
End at: 2018-04-17 17:11:34
Local clock offset: -2.387 ms
Remote clock offset: -8.528 ms

Below is generated by plot.py at 2018-04-17 20:30:07
Datalink statistics
-- Total of 3 flows:
Average throughput: 19.94 Mbit/s
95th percentile per-packet one-way delay: 9.962 ms
Loss rate: 3.86%
-- Flow 1:
Average throughput: 11.08 Mbit/s
95th percentile per-packet one-way delay: 10.030 ms
Loss rate: 3.18%
-- Flow 2:
Average throughput: 8.86 Mbit/s
95th percentile per-packet one-way delay: 8.283 ms
Loss rate: 4.77%
-- Flow 3:
Average throughput: 9.10 Mbit/s
95th percentile per-packet one-way delay: 8.788 ms
Loss rate: 4.54%

Run 2: Report of QUIC Cubic — Data Link

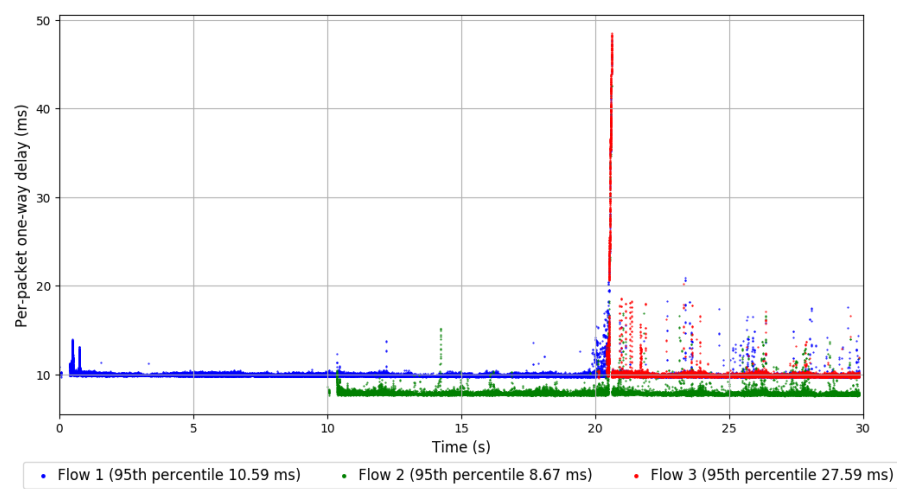
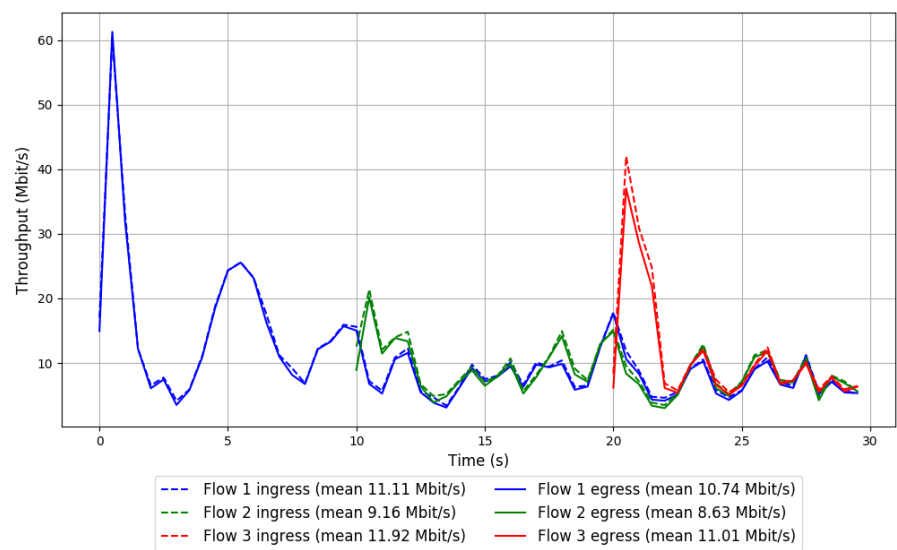


Run 3: Statistics of QUIC Cubic

Start at: 2018-04-17 17:31:09
End at: 2018-04-17 17:31:39
Local clock offset: -7.007 ms
Remote clock offset: -4.902 ms

Below is generated by plot.py at 2018-04-17 20:30:07
Datalink statistics
-- Total of 3 flows:
Average throughput: 20.09 Mbit/s
95th percentile per-packet one-way delay: 10.854 ms
Loss rate: 4.82%
-- Flow 1:
Average throughput: 10.74 Mbit/s
95th percentile per-packet one-way delay: 10.593 ms
Loss rate: 3.30%
-- Flow 2:
Average throughput: 8.63 Mbit/s
95th percentile per-packet one-way delay: 8.669 ms
Loss rate: 5.77%
-- Flow 3:
Average throughput: 11.01 Mbit/s
95th percentile per-packet one-way delay: 27.593 ms
Loss rate: 7.65%

Run 3: Report of QUIC Cubic — Data Link

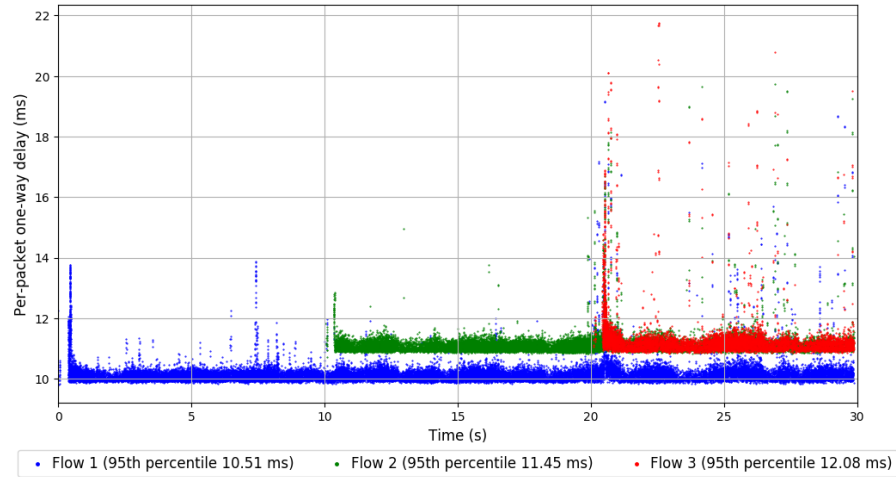
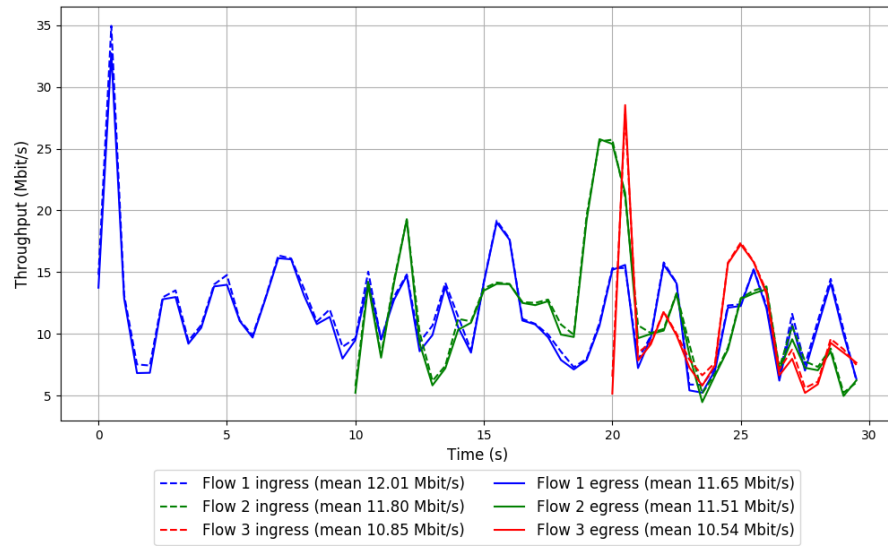


Run 4: Statistics of QUIC Cubic

Start at: 2018-04-17 17:51:02
End at: 2018-04-17 17:51:32
Local clock offset: -11.459 ms
Remote clock offset: -5.136 ms

Below is generated by plot.py at 2018-04-17 20:30:07
Datalink statistics
-- Total of 3 flows:
Average throughput: 22.75 Mbit/s
95th percentile per-packet one-way delay: 11.424 ms
Loss rate: 2.79%
-- Flow 1:
Average throughput: 11.65 Mbit/s
95th percentile per-packet one-way delay: 10.513 ms
Loss rate: 2.97%
-- Flow 2:
Average throughput: 11.51 Mbit/s
95th percentile per-packet one-way delay: 11.451 ms
Loss rate: 2.50%
-- Flow 3:
Average throughput: 10.54 Mbit/s
95th percentile per-packet one-way delay: 12.080 ms
Loss rate: 2.80%

Run 4: Report of QUIC Cubic — Data Link

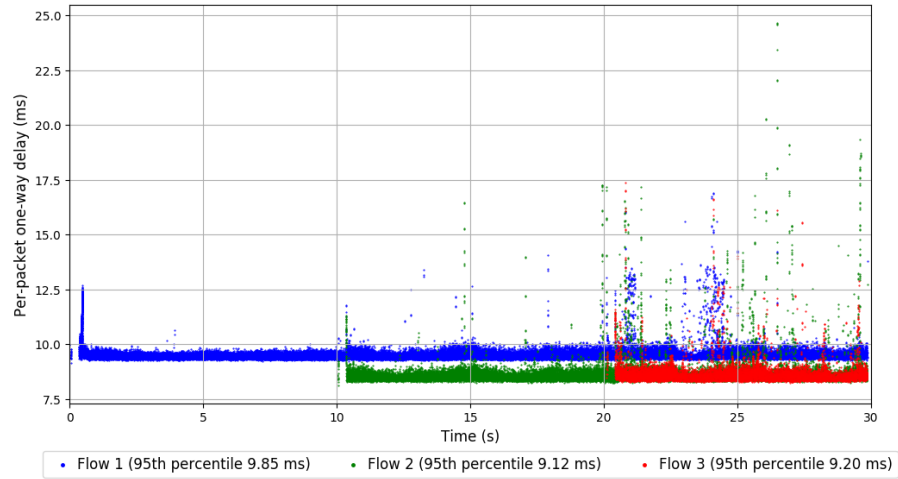
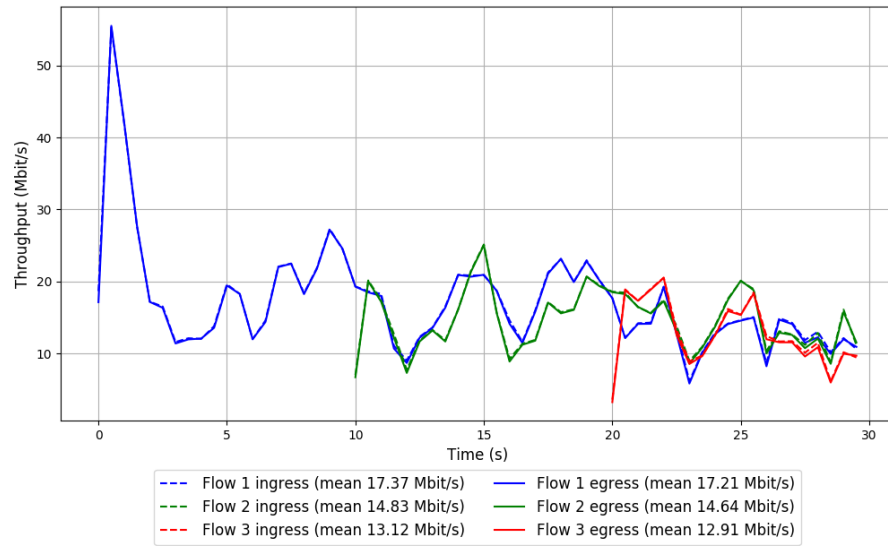


Run 5: Statistics of QUIC Cubic

Start at: 2018-04-17 18:11:08
End at: 2018-04-17 18:11:38
Local clock offset: -6.445 ms
Remote clock offset: -5.071 ms

Below is generated by plot.py at 2018-04-17 20:30:07
Datalink statistics
-- Total of 3 flows:
Average throughput: 31.17 Mbit/s
95th percentile per-packet one-way delay: 9.795 ms
Loss rate: 1.11%
-- Flow 1:
Average throughput: 17.21 Mbit/s
95th percentile per-packet one-way delay: 9.851 ms
Loss rate: 0.89%
-- Flow 2:
Average throughput: 14.64 Mbit/s
95th percentile per-packet one-way delay: 9.118 ms
Loss rate: 1.26%
-- Flow 3:
Average throughput: 12.91 Mbit/s
95th percentile per-packet one-way delay: 9.197 ms
Loss rate: 1.63%

Run 5: Report of QUIC Cubic — Data Link

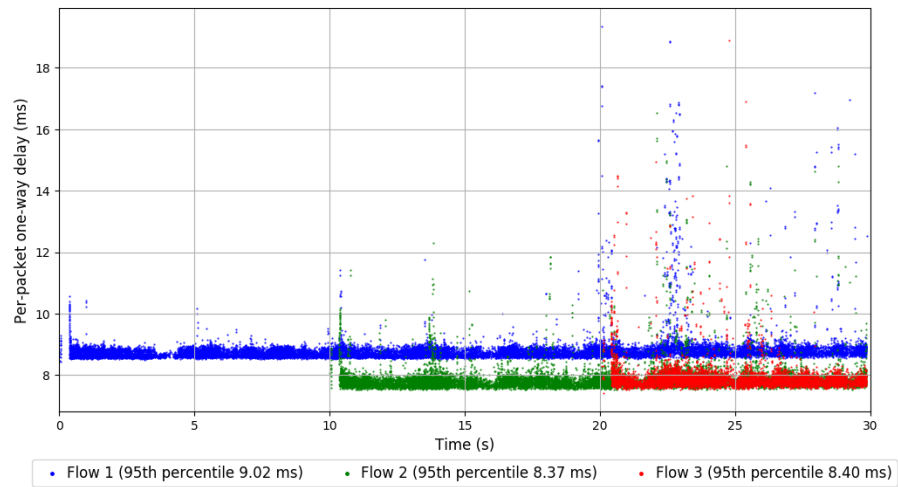
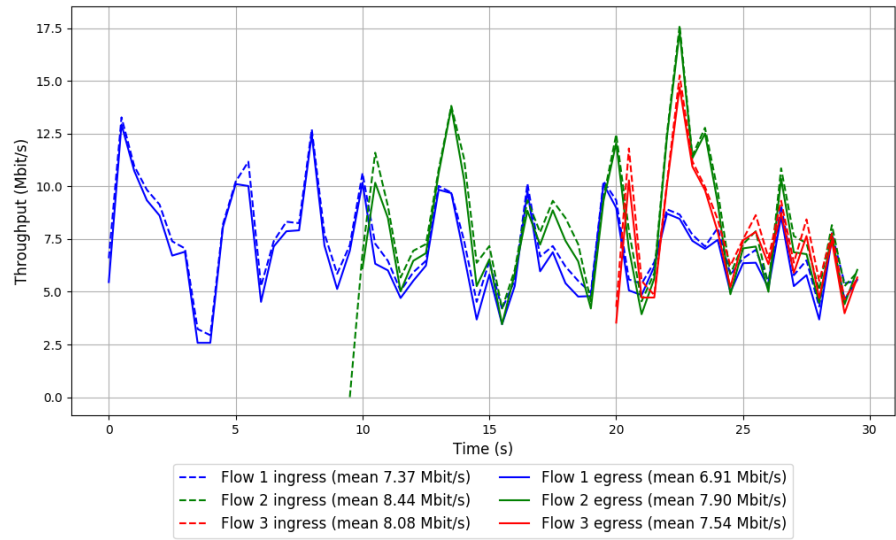


Run 6: Statistics of QUIC Cubic

Start at: 2018-04-17 18:31:04
End at: 2018-04-17 18:31:34
Local clock offset: -4.32 ms
Remote clock offset: -5.344 ms

Below is generated by plot.py at 2018-04-17 20:30:07
Datalink statistics
-- Total of 3 flows:
Average throughput: 14.64 Mbit/s
95th percentile per-packet one-way delay: 8.957 ms
Loss rate: 6.36%
-- Flow 1:
Average throughput: 6.91 Mbit/s
95th percentile per-packet one-way delay: 9.017 ms
Loss rate: 6.20%
-- Flow 2:
Average throughput: 7.90 Mbit/s
95th percentile per-packet one-way delay: 8.365 ms
Loss rate: 6.41%
-- Flow 3:
Average throughput: 7.54 Mbit/s
95th percentile per-packet one-way delay: 8.404 ms
Loss rate: 6.69%

Run 6: Report of QUIC Cubic — Data Link

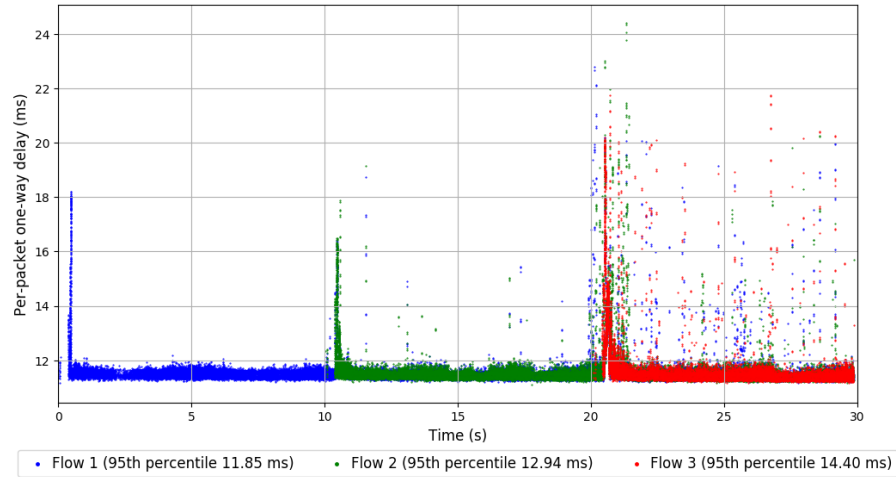
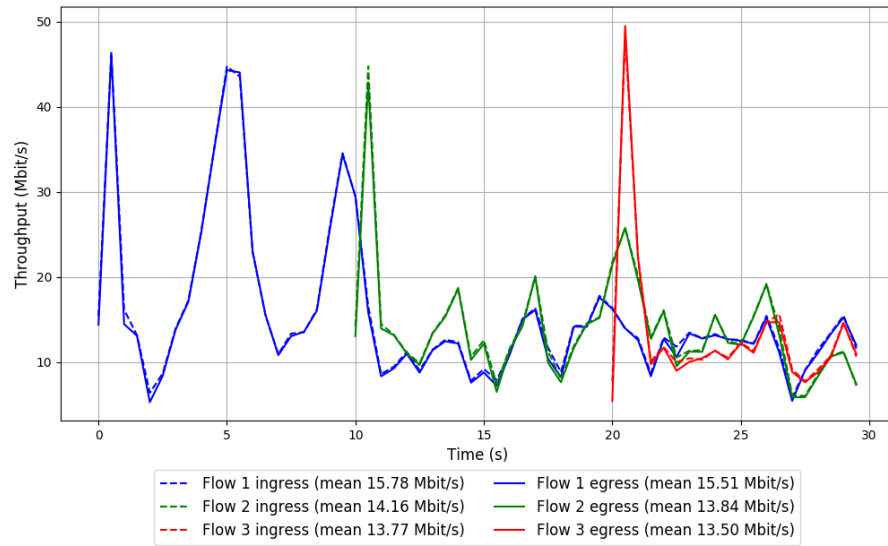


Run 7: Statistics of QUIC Cubic

Start at: 2018-04-17 18:51:19
End at: 2018-04-17 18:51:49
Local clock offset: -4.576 ms
Remote clock offset: -3.152 ms

Below is generated by plot.py at 2018-04-17 20:30:07
Datalink statistics
-- Total of 3 flows:
Average throughput: 29.13 Mbit/s
95th percentile per-packet one-way delay: 12.588 ms
Loss rate: 1.91%
-- Flow 1:
Average throughput: 15.51 Mbit/s
95th percentile per-packet one-way delay: 11.847 ms
Loss rate: 1.67%
-- Flow 2:
Average throughput: 13.84 Mbit/s
95th percentile per-packet one-way delay: 12.937 ms
Loss rate: 2.30%
-- Flow 3:
Average throughput: 13.50 Mbit/s
95th percentile per-packet one-way delay: 14.401 ms
Loss rate: 1.96%

Run 7: Report of QUIC Cubic — Data Link

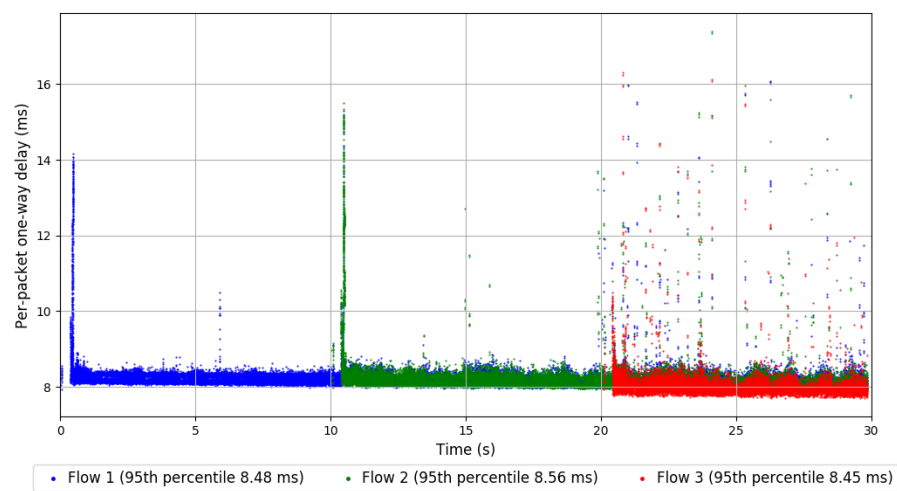
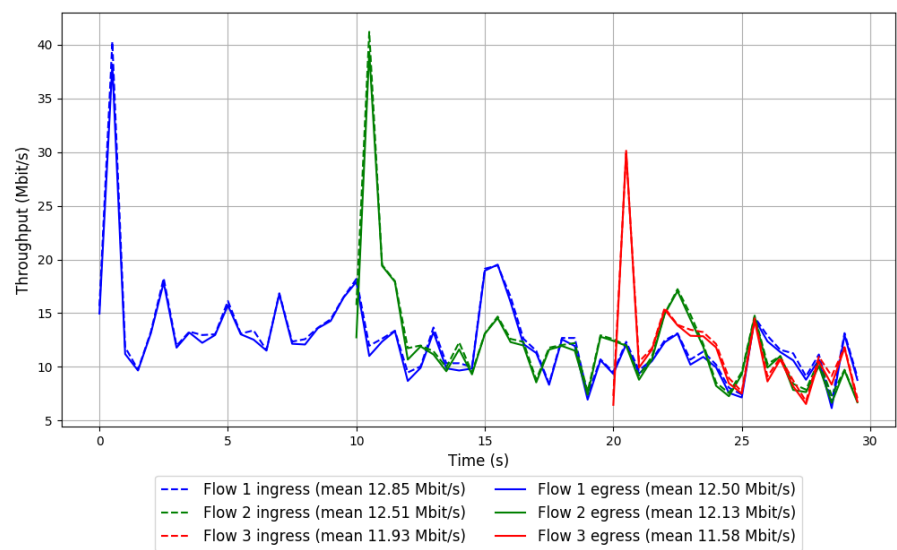


Run 8: Statistics of QUIC Cubic

Start at: 2018-04-17 19:11:10
End at: 2018-04-17 19:11:40
Local clock offset: -5.294 ms
Remote clock offset: -0.741 ms

Below is generated by plot.py at 2018-04-17 20:30:07
Datalink statistics
-- Total of 3 flows:
Average throughput: 24.35 Mbit/s
95th percentile per-packet one-way delay: 8.497 ms
Loss rate: 2.87%
-- Flow 1:
Average throughput: 12.50 Mbit/s
95th percentile per-packet one-way delay: 8.478 ms
Loss rate: 2.73%
-- Flow 2:
Average throughput: 12.13 Mbit/s
95th percentile per-packet one-way delay: 8.564 ms
Loss rate: 3.09%
-- Flow 3:
Average throughput: 11.58 Mbit/s
95th percentile per-packet one-way delay: 8.449 ms
Loss rate: 2.88%

Run 8: Report of QUIC Cubic — Data Link

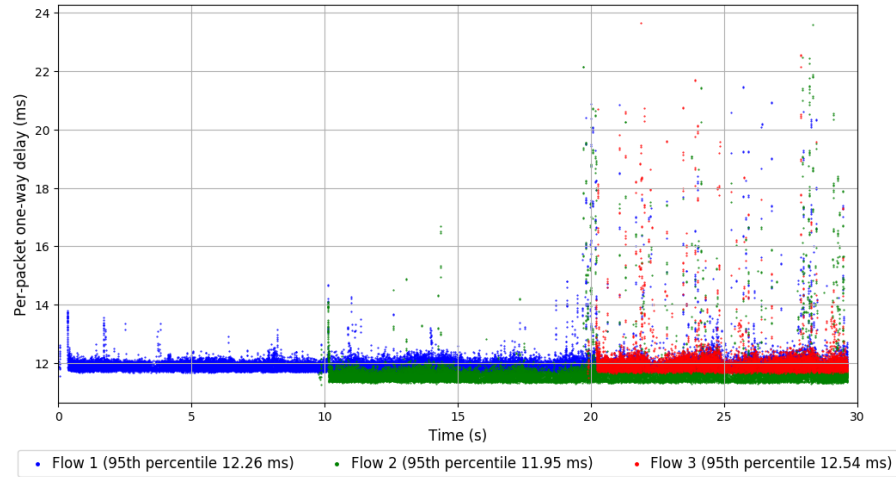
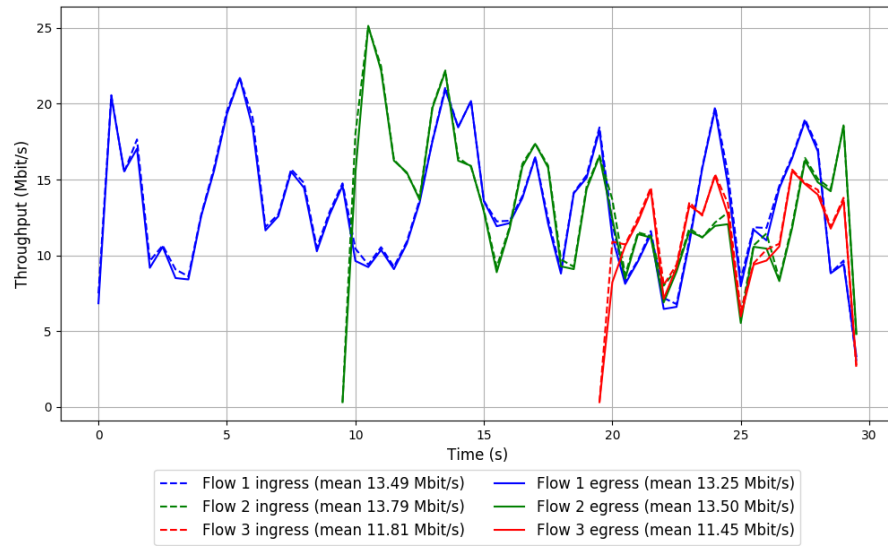


Run 9: Statistics of QUIC Cubic

Start at: 2018-04-17 19:31:06
End at: 2018-04-17 19:31:36
Local clock offset: -10.439 ms
Remote clock offset: 1.16 ms

Below is generated by plot.py at 2018-04-17 20:30:07
Datalink statistics
-- Total of 3 flows:
Average throughput: 26.08 Mbit/s
95th percentile per-packet one-way delay: 12.257 ms
Loss rate: 2.06%
-- Flow 1:
Average throughput: 13.25 Mbit/s
95th percentile per-packet one-way delay: 12.256 ms
Loss rate: 1.78%
-- Flow 2:
Average throughput: 13.50 Mbit/s
95th percentile per-packet one-way delay: 11.947 ms
Loss rate: 2.06%
-- Flow 3:
Average throughput: 11.45 Mbit/s
95th percentile per-packet one-way delay: 12.540 ms
Loss rate: 3.05%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-04-17 19:51:21

End at: 2018-04-17 19:51:51

Local clock offset: -6.954 ms

Remote clock offset: 2.347 ms

Below is generated by plot.py at 2018-04-17 20:30:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 33.32 Mbit/s

95th percentile per-packet one-way delay: 10.675 ms

Loss rate: 1.40%

-- Flow 1:

Average throughput: 19.22 Mbit/s

95th percentile per-packet one-way delay: 10.655 ms

Loss rate: 1.16%

-- Flow 2:

Average throughput: 14.39 Mbit/s

95th percentile per-packet one-way delay: 10.743 ms

Loss rate: 1.79%

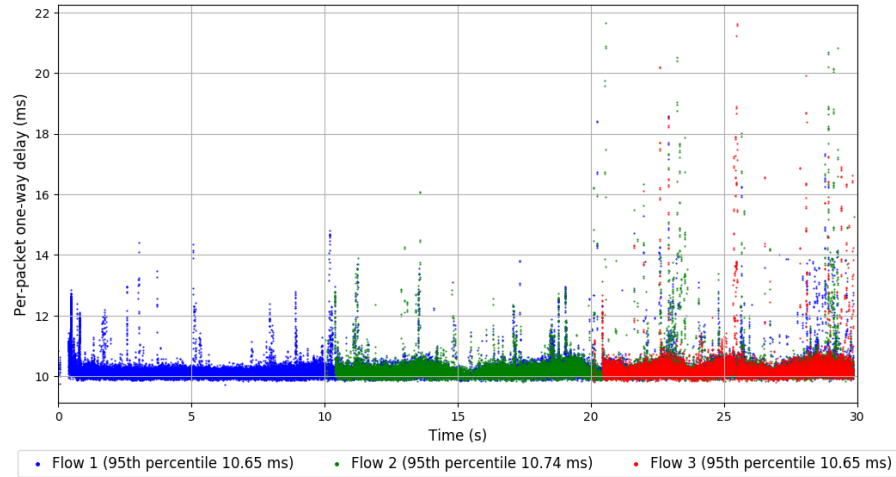
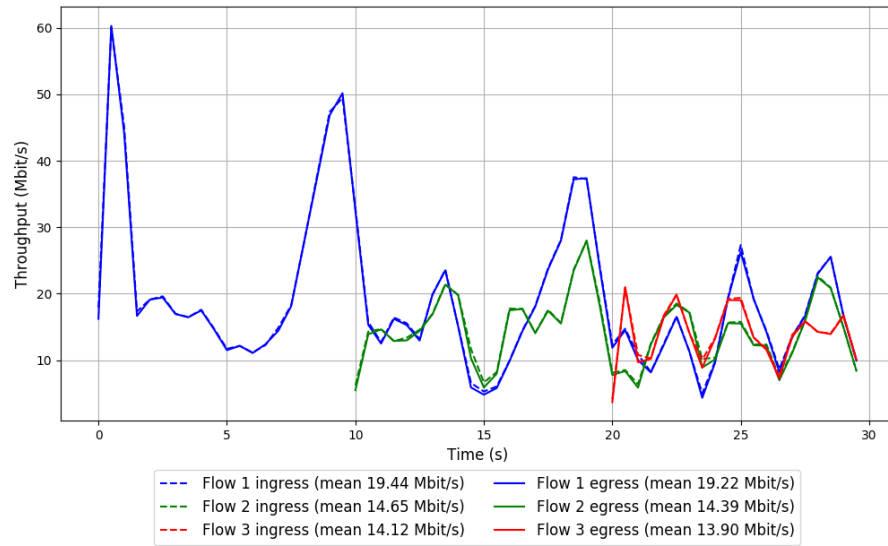
-- Flow 3:

Average throughput: 13.90 Mbit/s

95th percentile per-packet one-way delay: 10.654 ms

Loss rate: 1.63%

Run 10: Report of QUIC Cubic — Data Link

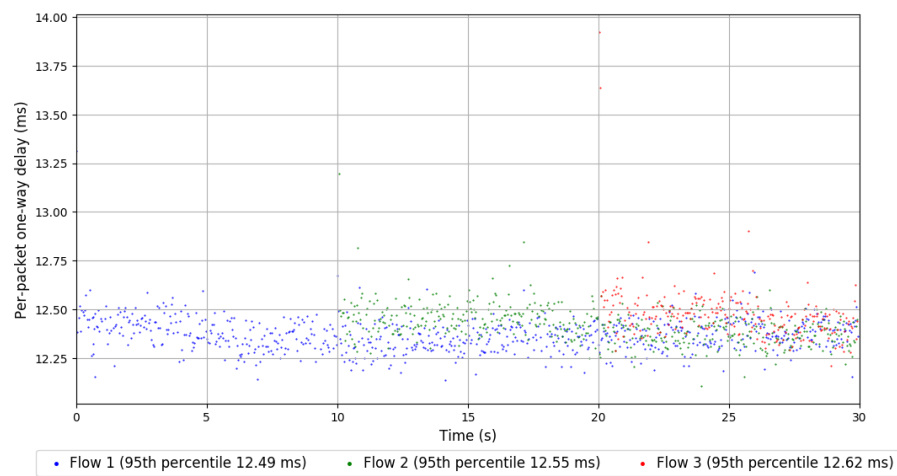
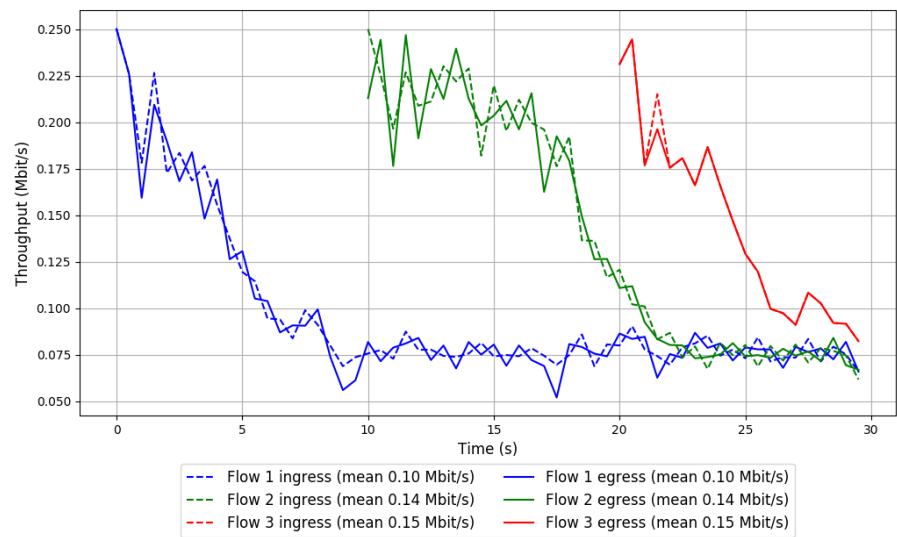


```
Run 1: Statistics of SCReAM

Start at: 2018-04-17 16:40:01
End at: 2018-04-17 16:40:31
Local clock offset: -8.949 ms
Remote clock offset: -10.303 ms

# Below is generated by plot.py at 2018-04-17 20:30:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.24 Mbit/s
95th percentile per-packet one-way delay: 12.555 ms
Loss rate: 1.05%
-- Flow 1:
Average throughput: 0.10 Mbit/s
95th percentile per-packet one-way delay: 12.493 ms
Loss rate: 1.50%
-- Flow 2:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 12.551 ms
Loss rate: 0.78%
-- Flow 3:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 12.618 ms
Loss rate: 0.65%
```

Run 1: Report of SCSReAM — Data Link

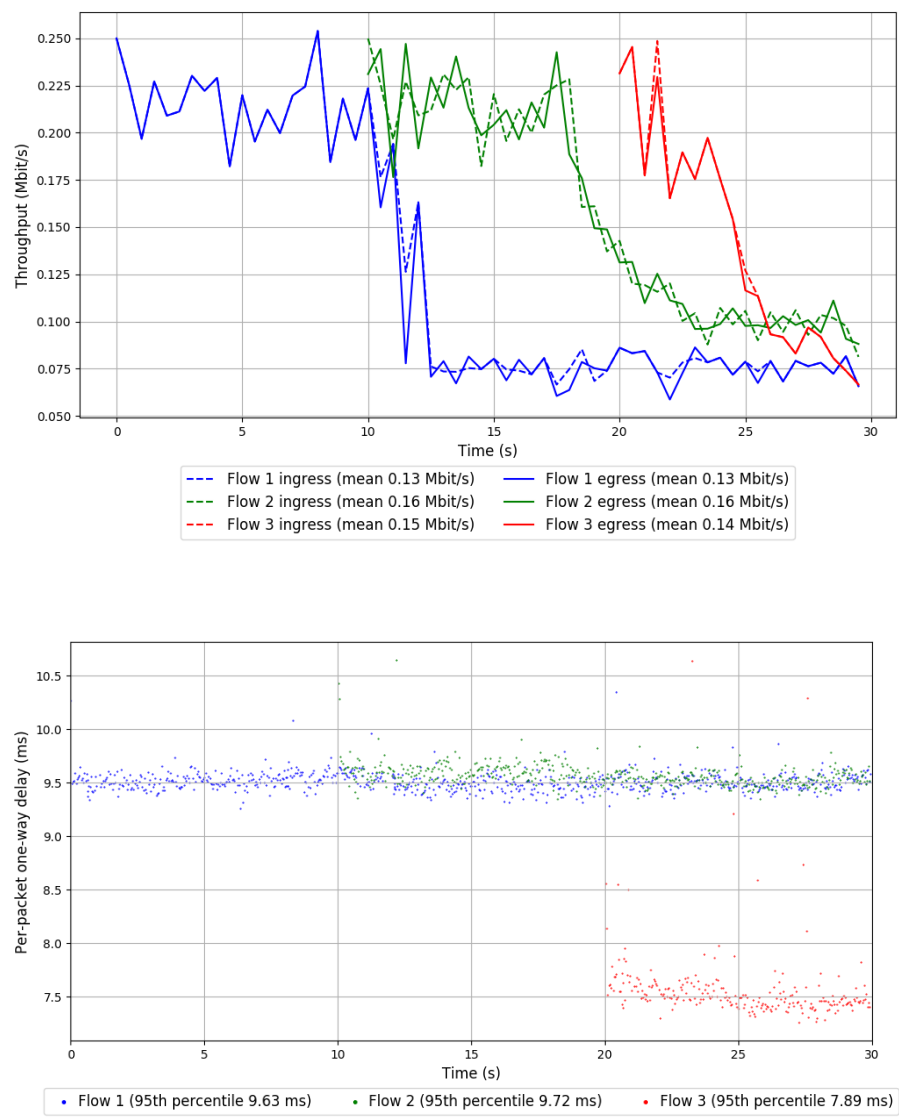


Run 2: Statistics of SReAM

Start at: 2018-04-17 17:00:29
End at: 2018-04-17 17:00:59
Local clock offset: -2.824 ms
Remote clock offset: -10.746 ms

Below is generated by plot.py at 2018-04-17 20:30:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.28 Mbit/s
95th percentile per-packet one-way delay: 9.665 ms
Loss rate: 0.90%
-- Flow 1:
Average throughput: 0.13 Mbit/s
95th percentile per-packet one-way delay: 9.635 ms
Loss rate: 1.26%
-- Flow 2:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 9.717 ms
Loss rate: 0.39%
-- Flow 3:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 7.890 ms
Loss rate: 1.03%

Run 2: Report of SReAM — Data Link

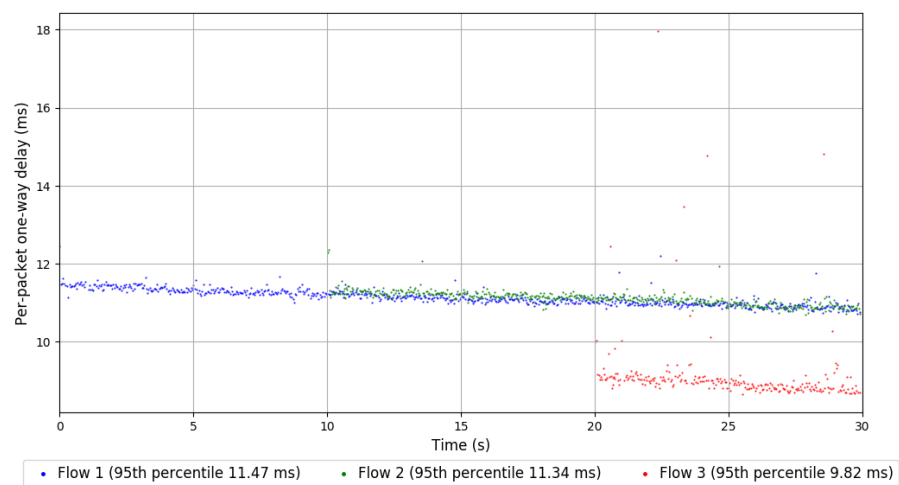
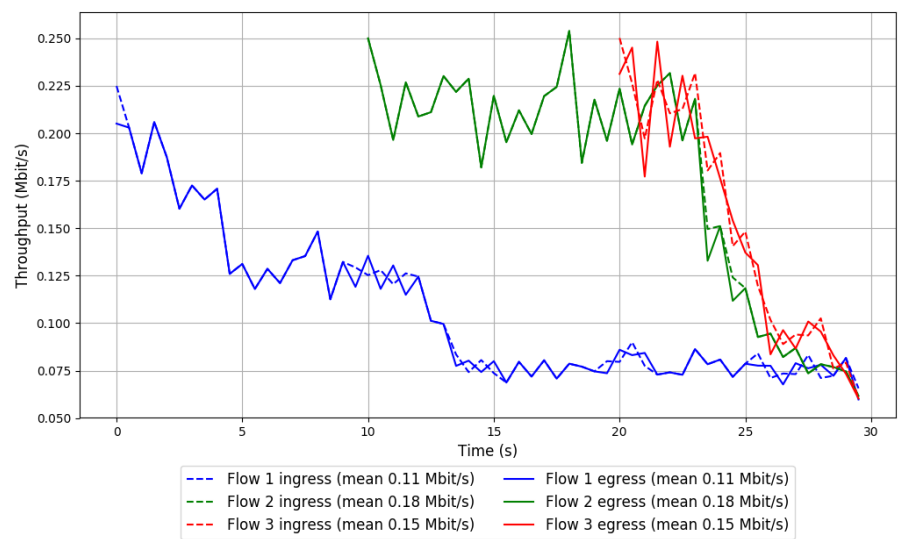


Run 3: Statistics of SCReAM

Start at: 2018-04-17 17:20:34
End at: 2018-04-17 17:21:04
Local clock offset: -3.876 ms
Remote clock offset: -6.576 ms

Below is generated by plot.py at 2018-04-17 20:30:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.28 Mbit/s
95th percentile per-packet one-way delay: 11.430 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 0.11 Mbit/s
95th percentile per-packet one-way delay: 11.466 ms
Loss rate: 0.57%
-- Flow 2:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 11.339 ms
Loss rate: 0.41%
-- Flow 3:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 9.823 ms
Loss rate: 1.10%

Run 3: Report of SReAM — Data Link

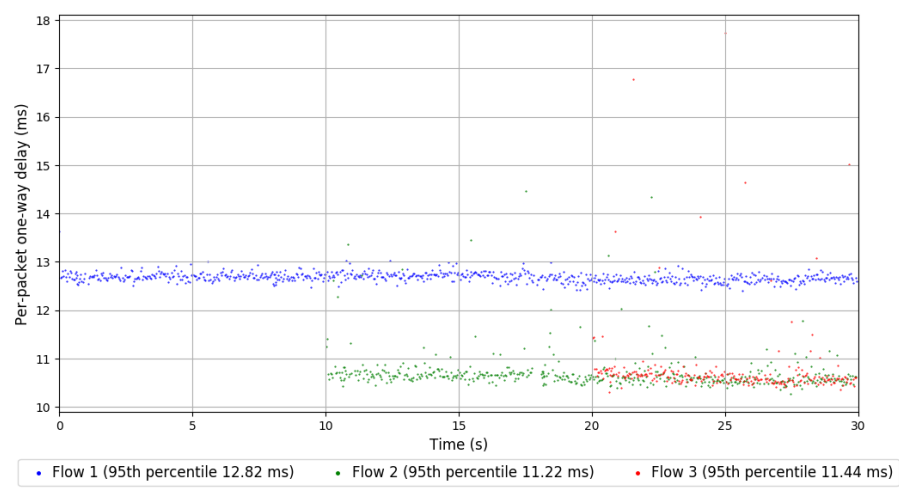
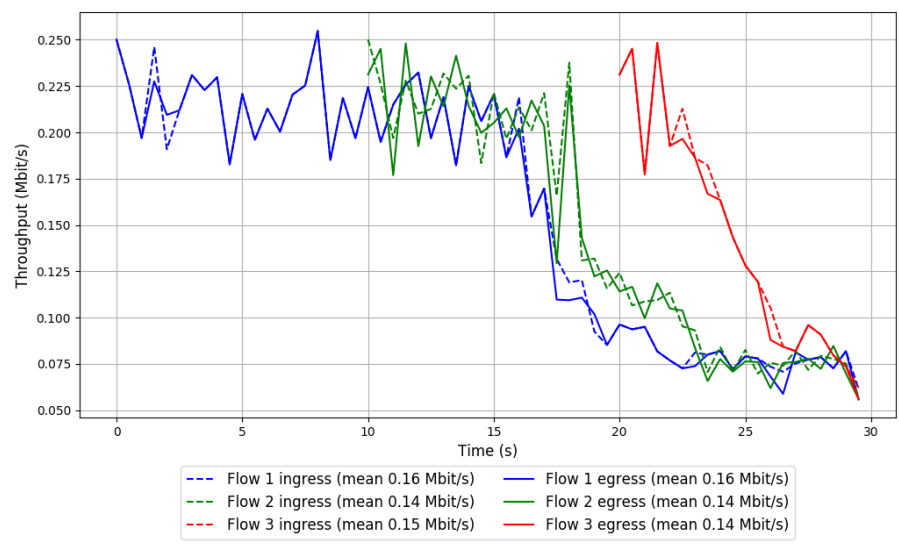


Run 4: Statistics of SReAM

Start at: 2018-04-17 17:40:28
End at: 2018-04-17 17:40:58
Local clock offset: -11.2 ms
Remote clock offset: -4.395 ms

Below is generated by plot.py at 2018-04-17 20:30:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.30 Mbit/s
95th percentile per-packet one-way delay: 12.797 ms
Loss rate: 1.22%
-- Flow 1:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 12.825 ms
Loss rate: 0.77%
-- Flow 2:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 11.224 ms
Loss rate: 1.63%
-- Flow 3:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 11.440 ms
Loss rate: 1.89%

Run 4: Report of SReAM — Data Link

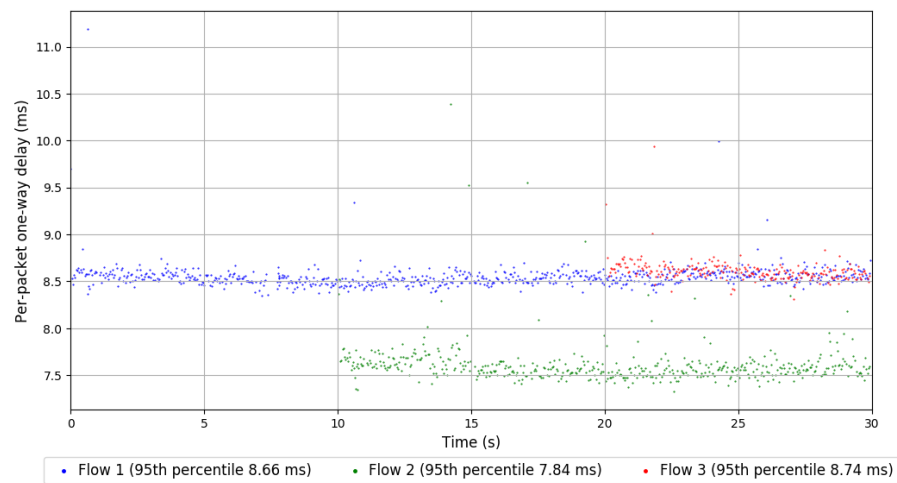
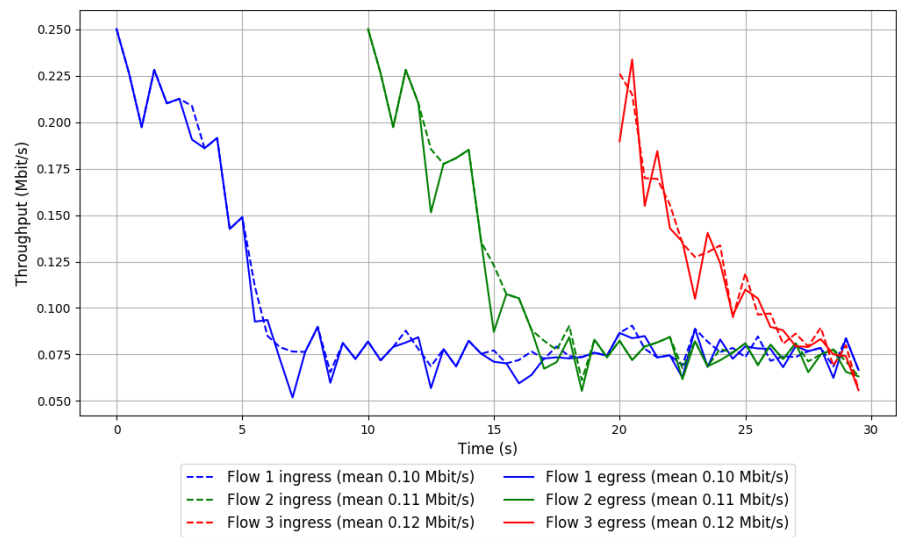


Run 5: Statistics of SCReAM

Start at: 2018-04-17 18:00:27
End at: 2018-04-17 18:00:57
Local clock offset: -7.04 ms
Remote clock offset: -5.209 ms

Below is generated by plot.py at 2018-04-17 20:30:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 8.667 ms
Loss rate: 2.54%
-- Flow 1:
Average throughput: 0.10 Mbit/s
95th percentile per-packet one-way delay: 8.656 ms
Loss rate: 2.25%
-- Flow 2:
Average throughput: 0.11 Mbit/s
95th percentile per-packet one-way delay: 7.843 ms
Loss rate: 2.89%
-- Flow 3:
Average throughput: 0.12 Mbit/s
95th percentile per-packet one-way delay: 8.742 ms
Loss rate: 2.63%

Run 5: Report of SReAM — Data Link

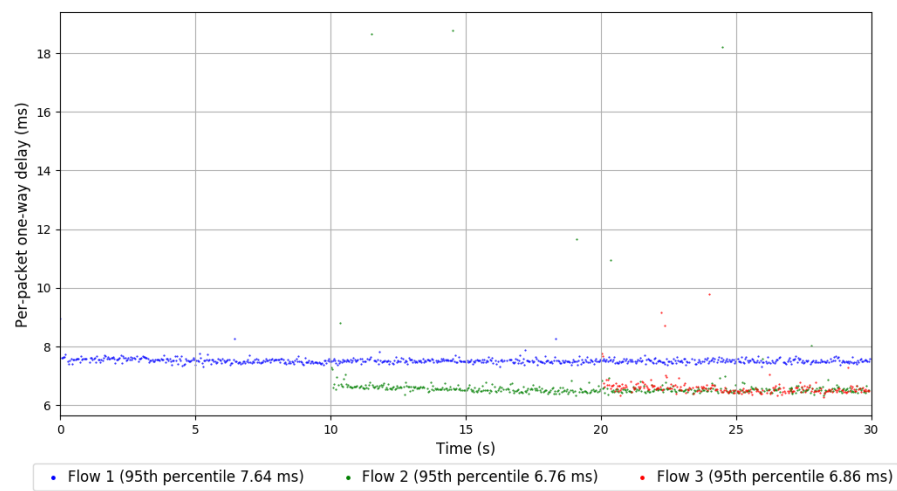
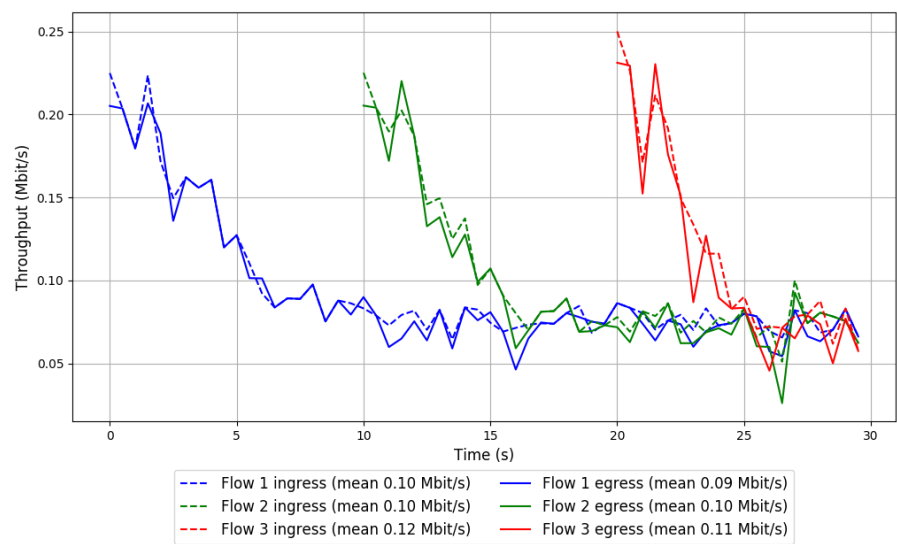


Run 6: Statistics of SCReAM

Start at: 2018-04-17 18:20:31
End at: 2018-04-17 18:21:01
Local clock offset: -4.233 ms
Remote clock offset: -5.616 ms

Below is generated by plot.py at 2018-04-17 20:30:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 7.613 ms
Loss rate: 4.68%
-- Flow 1:
Average throughput: 0.09 Mbit/s
95th percentile per-packet one-way delay: 7.636 ms
Loss rate: 3.43%
-- Flow 2:
Average throughput: 0.10 Mbit/s
95th percentile per-packet one-way delay: 6.760 ms
Loss rate: 4.85%
-- Flow 3:
Average throughput: 0.11 Mbit/s
95th percentile per-packet one-way delay: 6.860 ms
Loss rate: 7.38%

Run 6: Report of SReAM — Data Link

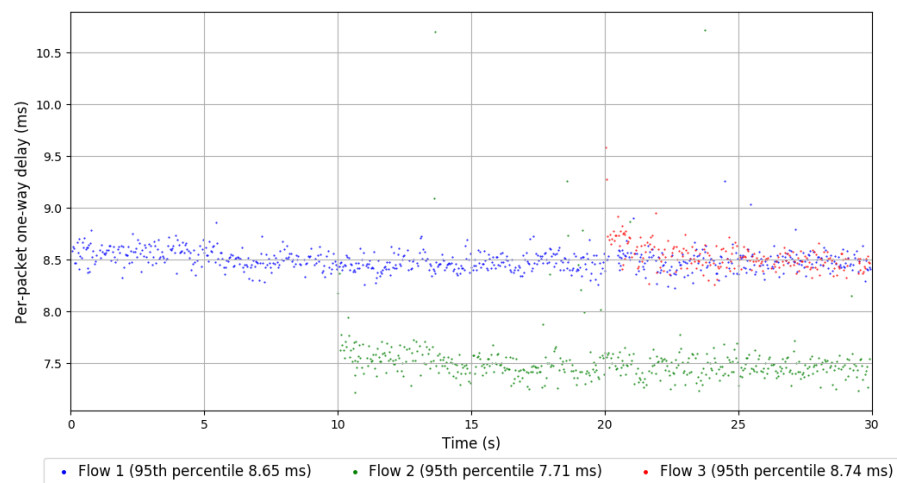
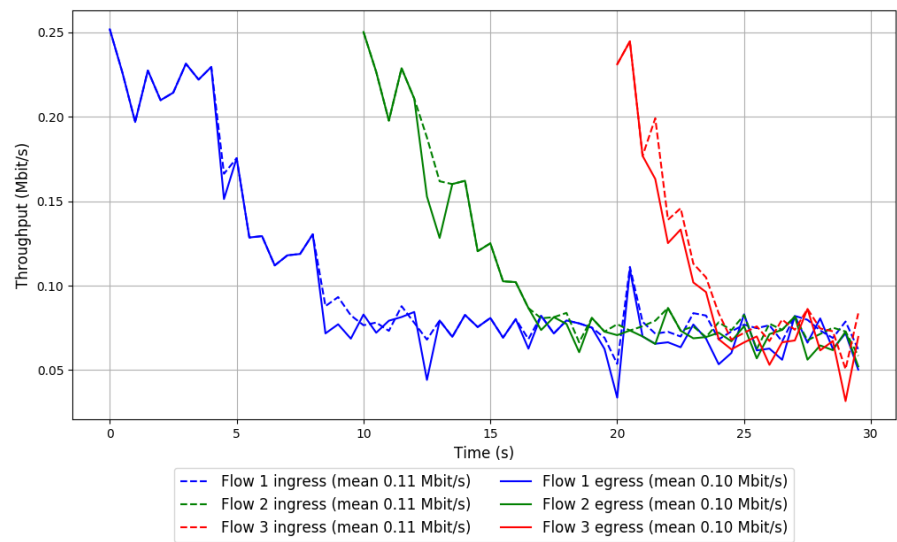


Run 7: Statistics of SReAM

Start at: 2018-04-17 18:40:39
End at: 2018-04-17 18:41:09
Local clock offset: -2.946 ms
Remote clock offset: -4.909 ms

Below is generated by plot.py at 2018-04-17 20:30:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.20 Mbit/s
95th percentile per-packet one-way delay: 8.660 ms
Loss rate: 4.97%
-- Flow 1:
Average throughput: 0.10 Mbit/s
95th percentile per-packet one-way delay: 8.646 ms
Loss rate: 3.93%
-- Flow 2:
Average throughput: 0.10 Mbit/s
95th percentile per-packet one-way delay: 7.707 ms
Loss rate: 4.44%
-- Flow 3:
Average throughput: 0.10 Mbit/s
95th percentile per-packet one-way delay: 8.741 ms
Loss rate: 8.93%

Run 7: Report of SReAM — Data Link

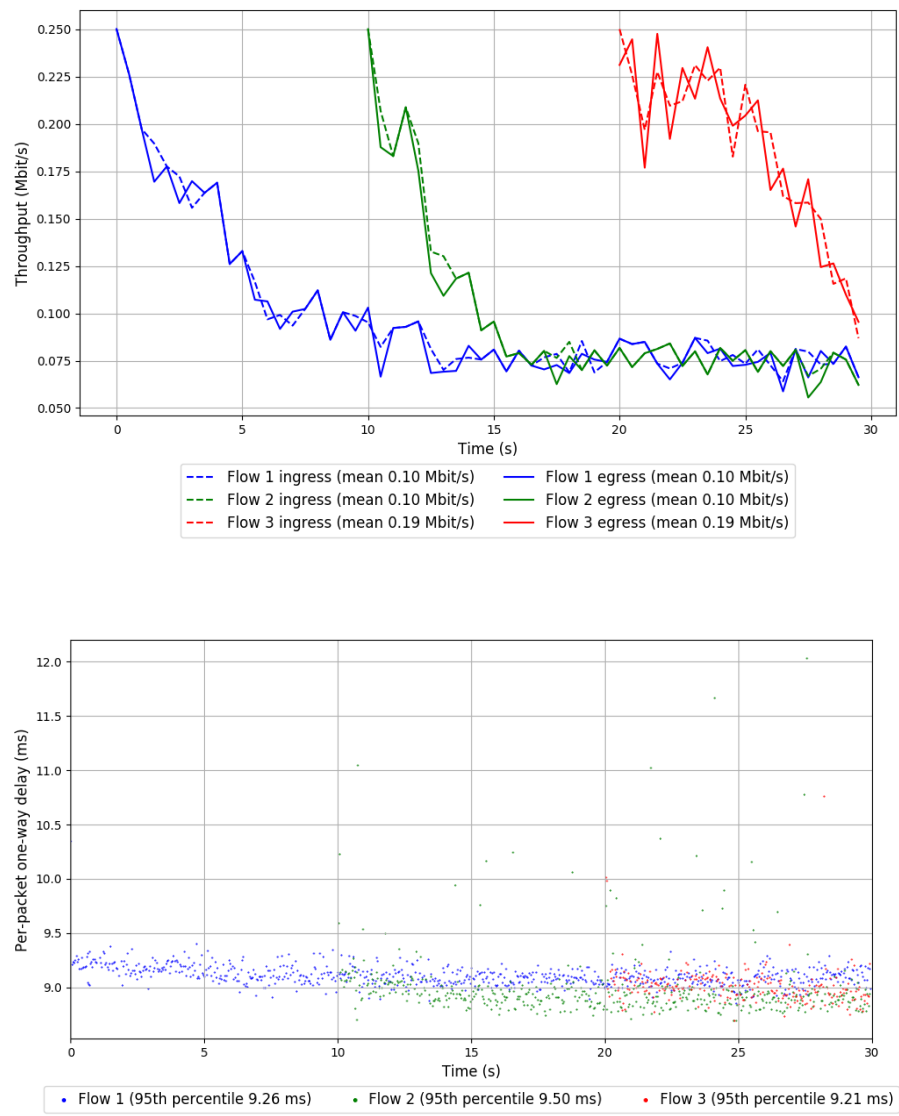


Run 8: Statistics of SCReAM

Start at: 2018-04-17 19:00:38
End at: 2018-04-17 19:01:08
Local clock offset: -1.635 ms
Remote clock offset: -1.149 ms

Below is generated by plot.py at 2018-04-17 20:30:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.23 Mbit/s
95th percentile per-packet one-way delay: 9.266 ms
Loss rate: 1.62%
-- Flow 1:
Average throughput: 0.10 Mbit/s
95th percentile per-packet one-way delay: 9.262 ms
Loss rate: 1.43%
-- Flow 2:
Average throughput: 0.10 Mbit/s
95th percentile per-packet one-way delay: 9.497 ms
Loss rate: 2.69%
-- Flow 3:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 9.207 ms
Loss rate: 0.82%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SReAM

Start at: 2018-04-17 19:20:39

End at: 2018-04-17 19:21:09

Local clock offset: -6.737 ms

Remote clock offset: 0.181 ms

Below is generated by plot.py at 2018-04-17 20:30:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.27 Mbit/s

95th percentile per-packet one-way delay: 8.210 ms

Loss rate: 0.64%

-- Flow 1:

Average throughput: 0.12 Mbit/s

95th percentile per-packet one-way delay: 8.221 ms

Loss rate: 1.03%

-- Flow 2:

Average throughput: 0.11 Mbit/s

95th percentile per-packet one-way delay: 8.161 ms

Loss rate: 0.60%

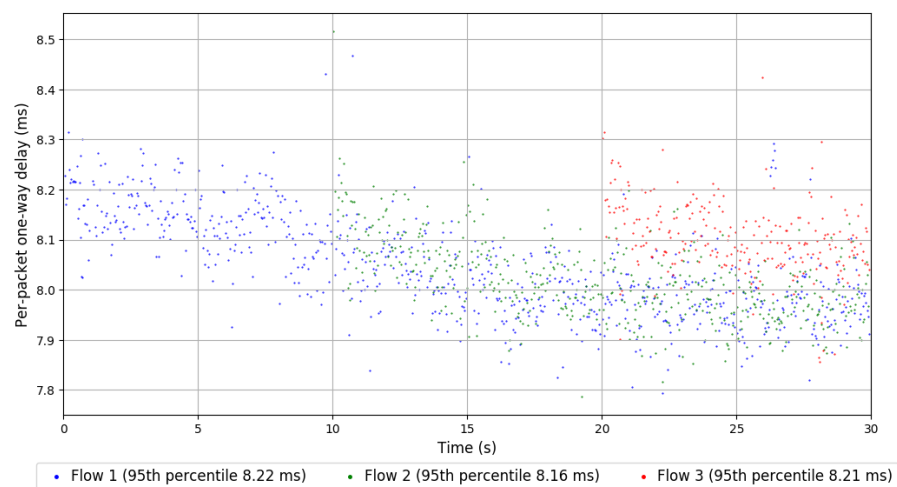
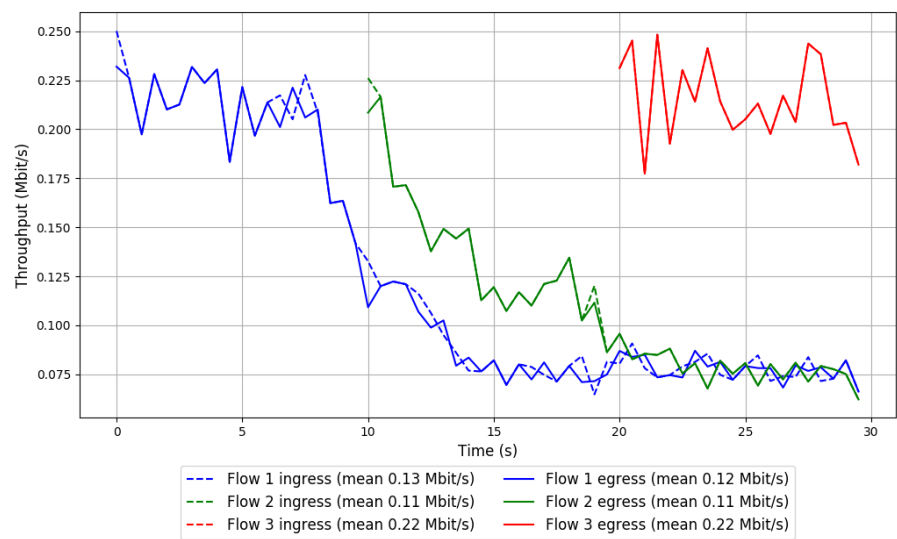
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 8.215 ms

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-04-17 19:40:43

End at: 2018-04-17 19:41:13

Local clock offset: -8.89 ms

Remote clock offset: 1.148 ms

Below is generated by plot.py at 2018-04-17 20:30:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.32 Mbit/s

95th percentile per-packet one-way delay: 10.618 ms

Loss rate: 0.40%

-- Flow 1:

Average throughput: 0.16 Mbit/s

95th percentile per-packet one-way delay: 10.652 ms

Loss rate: 0.35%

-- Flow 2:

Average throughput: 0.16 Mbit/s

95th percentile per-packet one-way delay: 10.289 ms

Loss rate: 0.38%

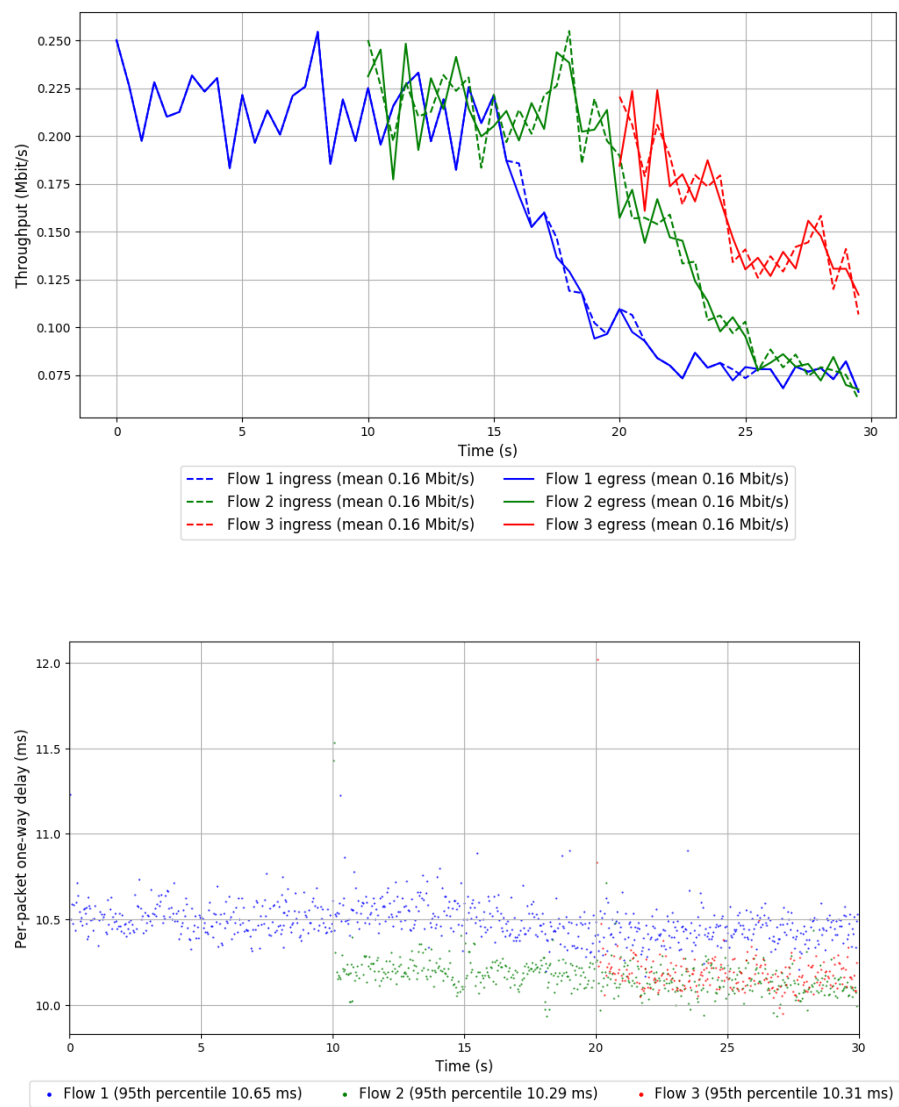
-- Flow 3:

Average throughput: 0.16 Mbit/s

95th percentile per-packet one-way delay: 10.306 ms

Loss rate: 0.58%

Run 10: Report of SReAM — Data Link

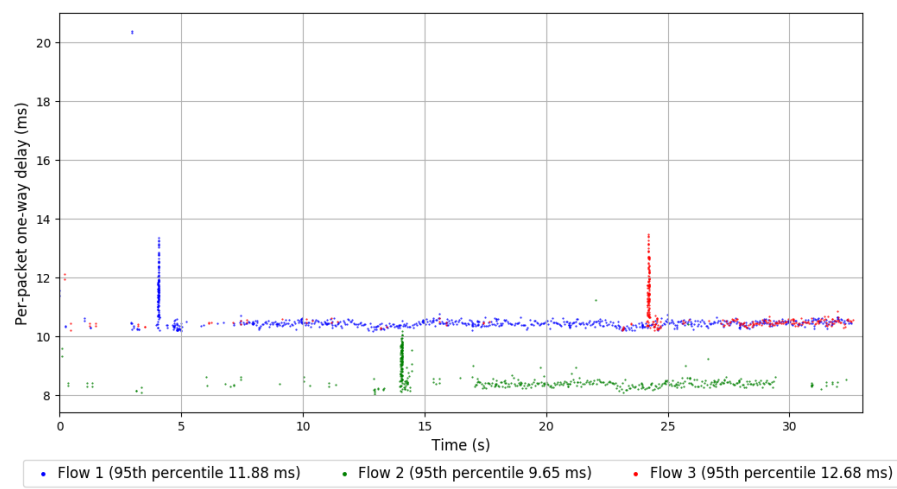
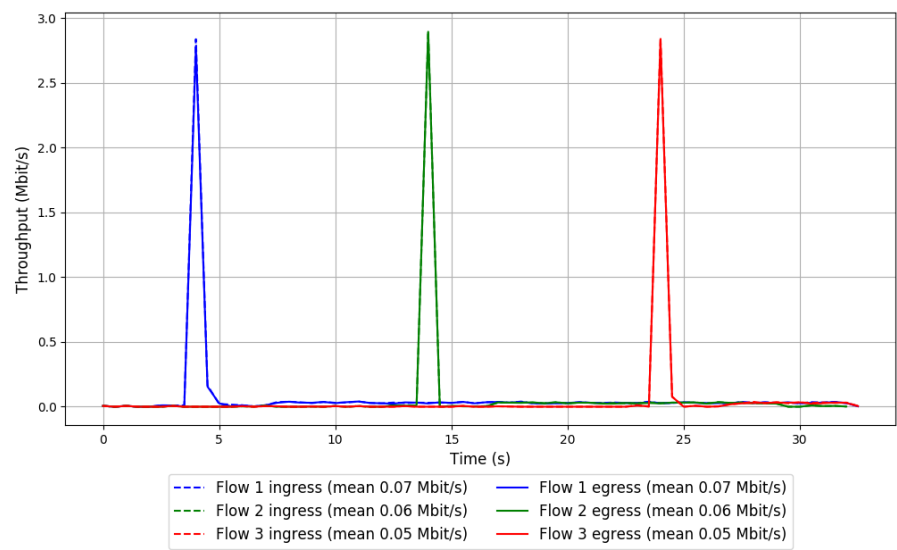


Run 1: Statistics of WebRTC media

Start at: 2018-04-17 16:45:25
End at: 2018-04-17 16:45:55
Local clock offset: -6.44 ms
Remote clock offset: -10.253 ms

Below is generated by plot.py at 2018-04-17 20:30:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 11.900 ms
Loss rate: 1.55%
-- Flow 1:
Average throughput: 0.07 Mbit/s
95th percentile per-packet one-way delay: 11.876 ms
Loss rate: 2.61%
-- Flow 2:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 9.652 ms
Loss rate: 0.56%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 12.676 ms
Loss rate: 1.19%

Run 1: Report of WebRTC media — Data Link

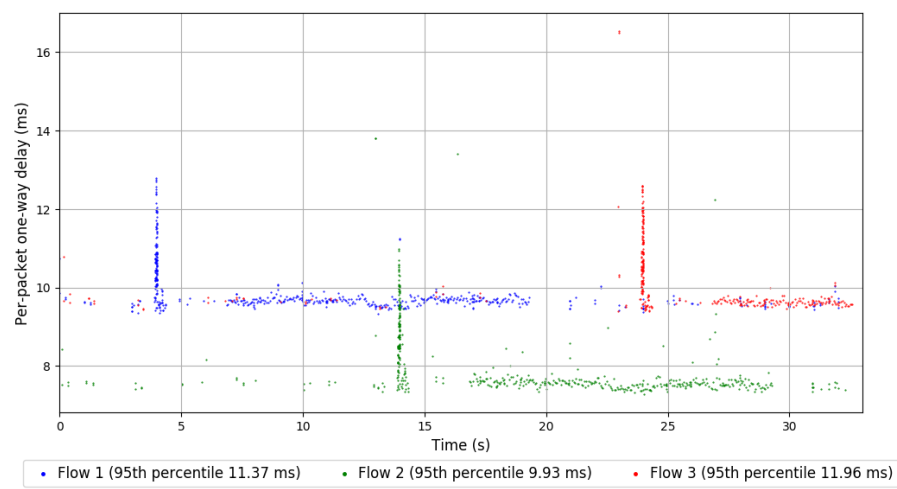
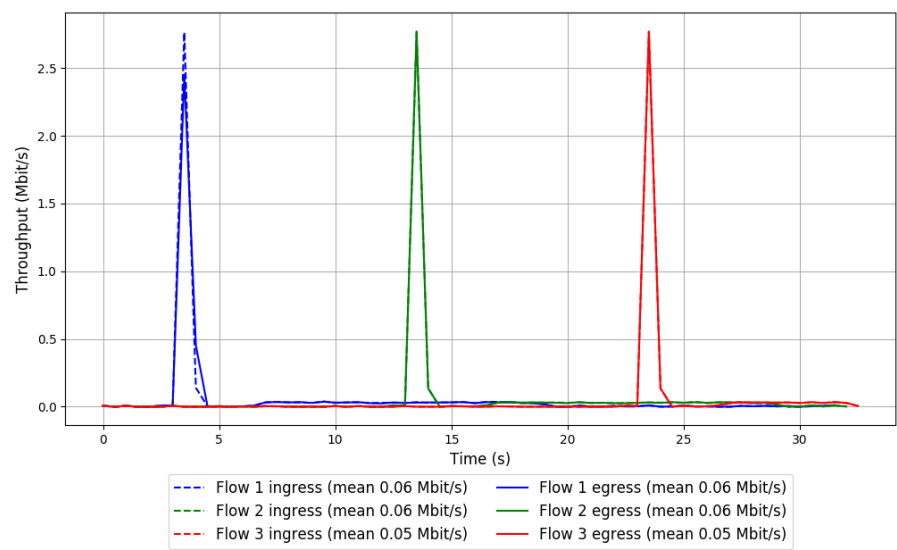


Run 2: Statistics of WebRTC media

Start at: 2018-04-17 17:05:22
End at: 2018-04-17 17:05:52
Local clock offset: -3.115 ms
Remote clock offset: -11.56 ms

Below is generated by plot.py at 2018-04-17 20:30:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 11.416 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 11.371 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 9.927 ms
Loss rate: 0.11%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 11.964 ms
Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link

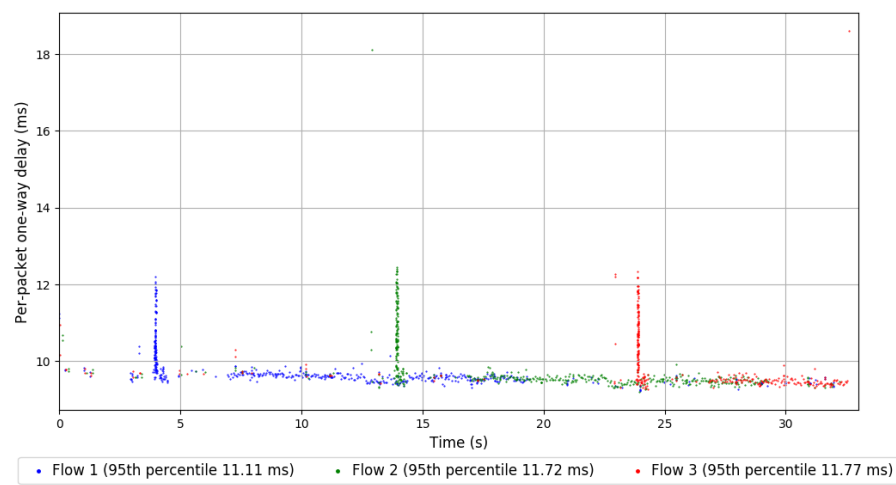
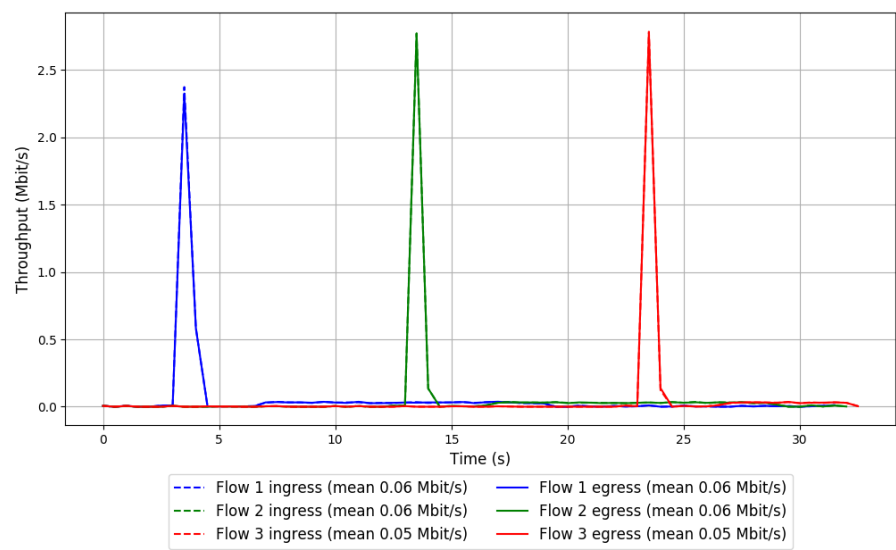


Run 3: Statistics of WebRTC media

Start at: 2018-04-17 17:25:24
End at: 2018-04-17 17:25:54
Local clock offset: -4.692 ms
Remote clock offset: -5.326 ms

Below is generated by plot.py at 2018-04-17 20:30:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 11.551 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 11.107 ms
Loss rate: 1.28%
-- Flow 2:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 11.716 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 11.771 ms
Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link

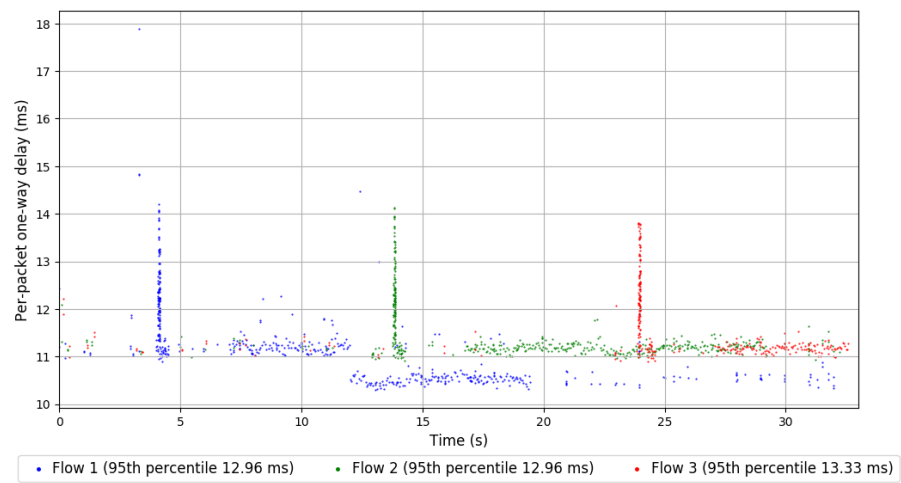
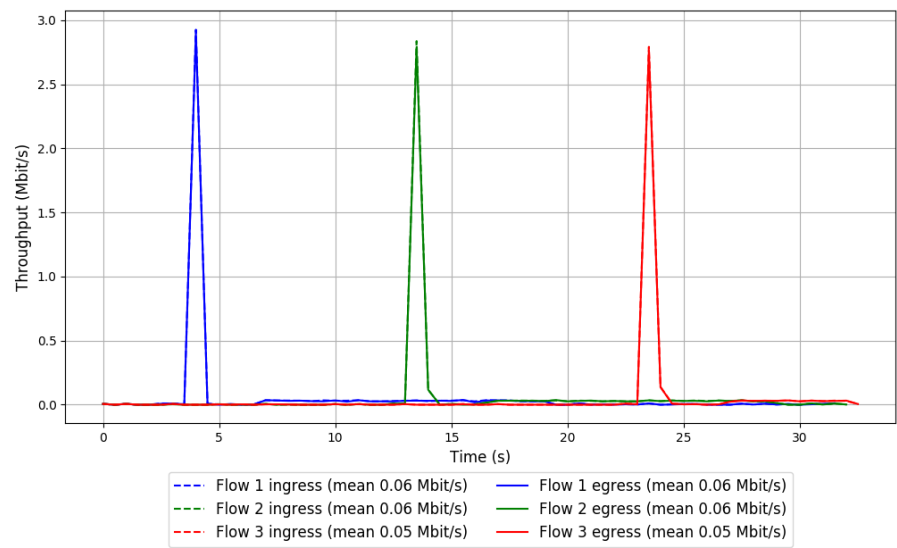


Run 4: Statistics of WebRTC media

Start at: 2018-04-17 17:45:18
End at: 2018-04-17 17:45:48
Local clock offset: -11.261 ms
Remote clock offset: -4.882 ms

Below is generated by plot.py at 2018-04-17 20:30:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 13.126 ms
Loss rate: 1.44%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 12.956 ms
Loss rate: 1.49%
-- Flow 2:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 12.955 ms
Loss rate: 1.70%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 13.326 ms
Loss rate: 1.08%

Run 4: Report of WebRTC media — Data Link

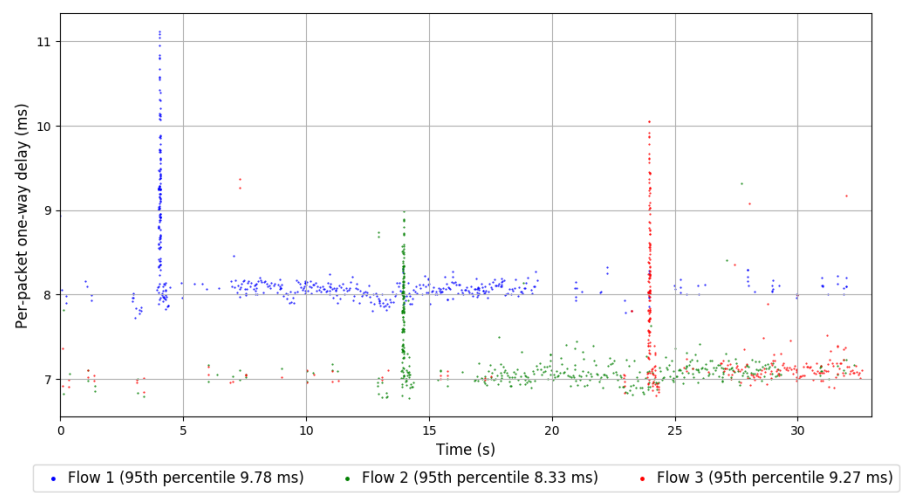
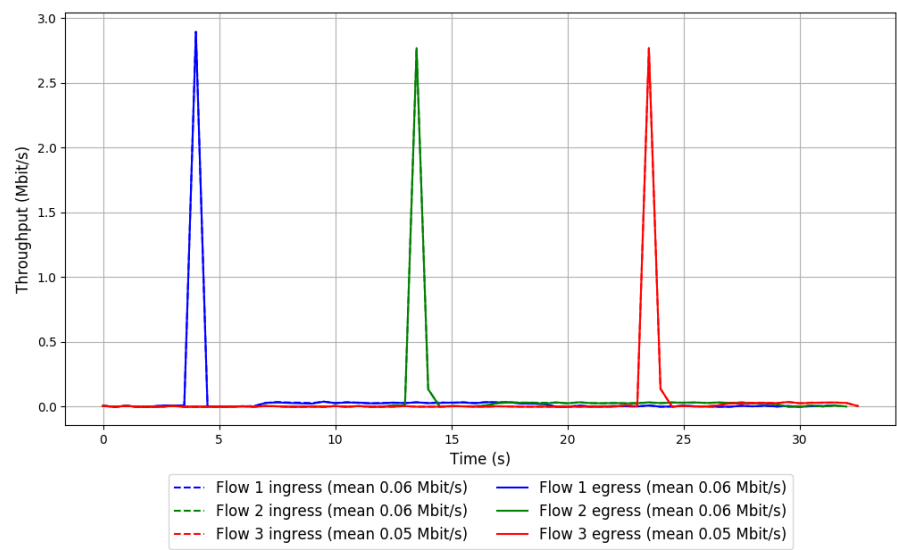


Run 5: Statistics of WebRTC media

Start at: 2018-04-17 18:05:11
End at: 2018-04-17 18:05:41
Local clock offset: -6.024 ms
Remote clock offset: -5.435 ms

Below is generated by plot.py at 2018-04-17 20:30:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 9.273 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 9.782 ms
Loss rate: 1.05%
-- Flow 2:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 8.331 ms
Loss rate: 0.43%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 9.268 ms
Loss rate: 0.39%

Run 5: Report of WebRTC media — Data Link

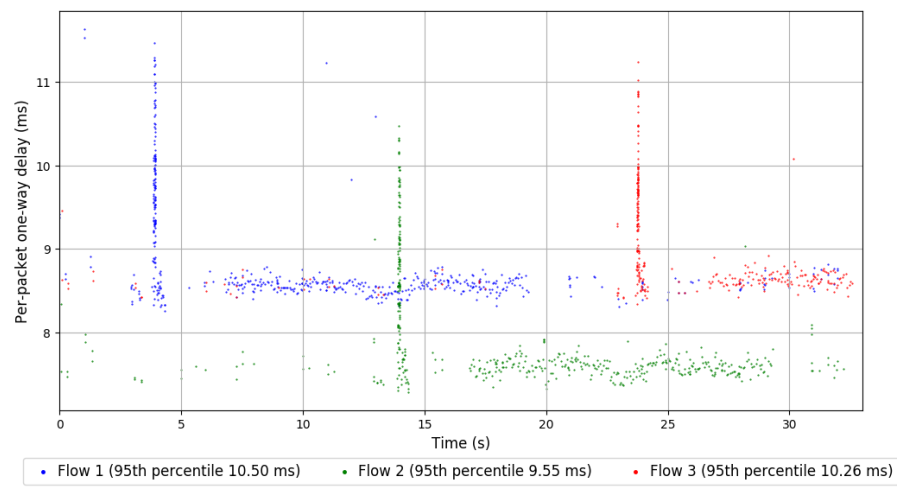
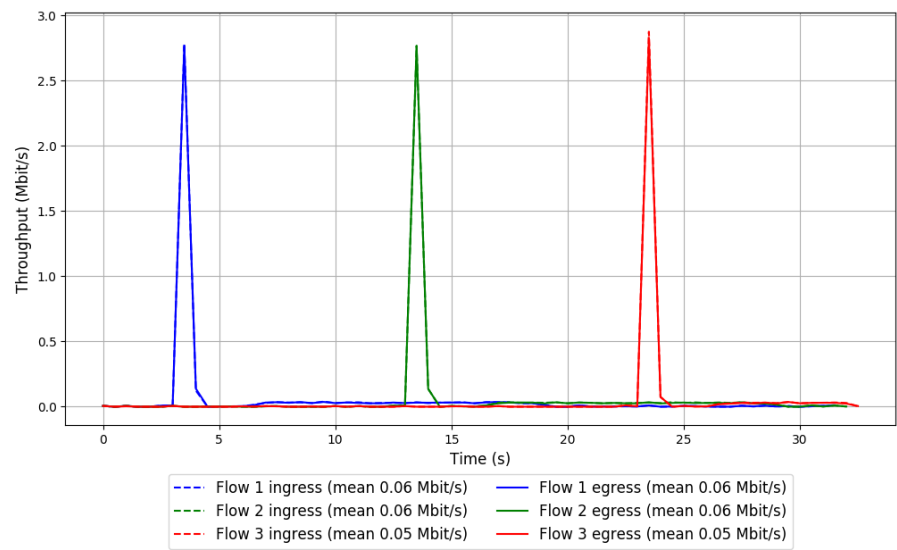


Run 6: Statistics of WebRTC media

Start at: 2018-04-17 18:25:25
End at: 2018-04-17 18:25:55
Local clock offset: -4.939 ms
Remote clock offset: -5.533 ms

Below is generated by plot.py at 2018-04-17 20:30:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 10.082 ms
Loss rate: 1.09%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 10.501 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 9.554 ms
Loss rate: 0.91%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 10.263 ms
Loss rate: 2.13%

Run 6: Report of WebRTC media — Data Link

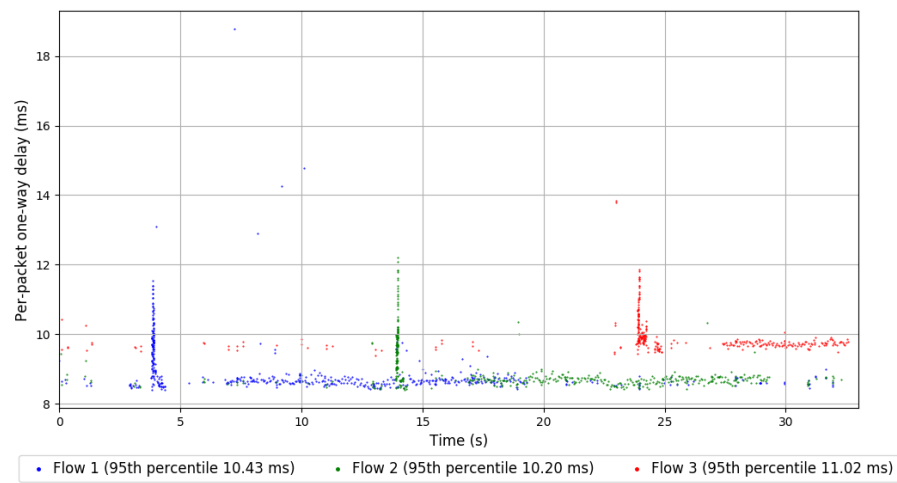
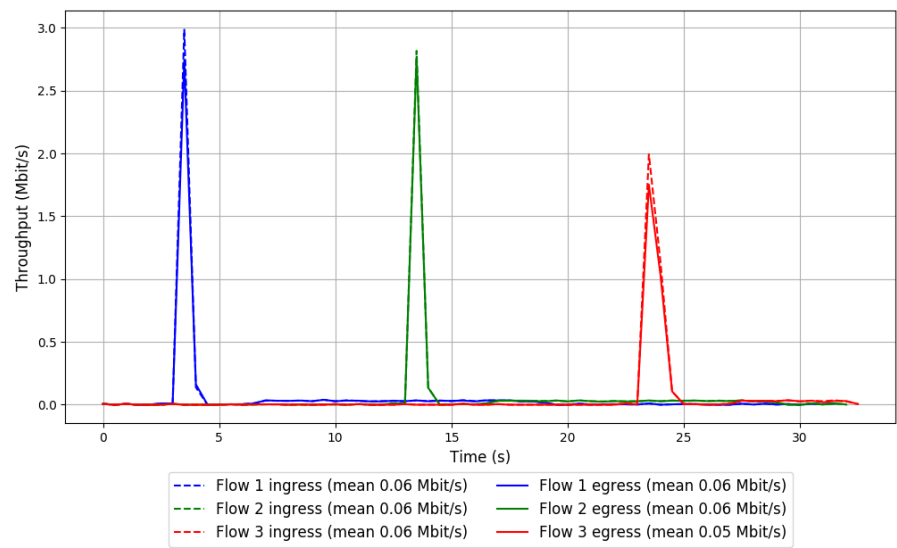


Run 7: Statistics of WebRTC media

Start at: 2018-04-17 18:45:38
End at: 2018-04-17 18:46:08
Local clock offset: -3.426 ms
Remote clock offset: -4.466 ms

Below is generated by plot.py at 2018-04-17 20:30:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 10.595 ms
Loss rate: 5.55%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 10.426 ms
Loss rate: 5.60%
-- Flow 2:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 10.201 ms
Loss rate: 1.47%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 11.021 ms
Loss rate: 9.77%

Run 7: Report of WebRTC media — Data Link

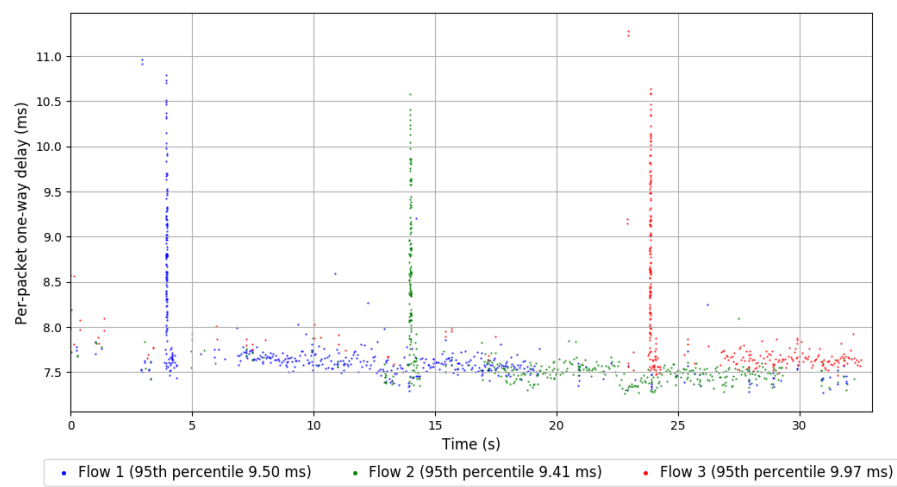
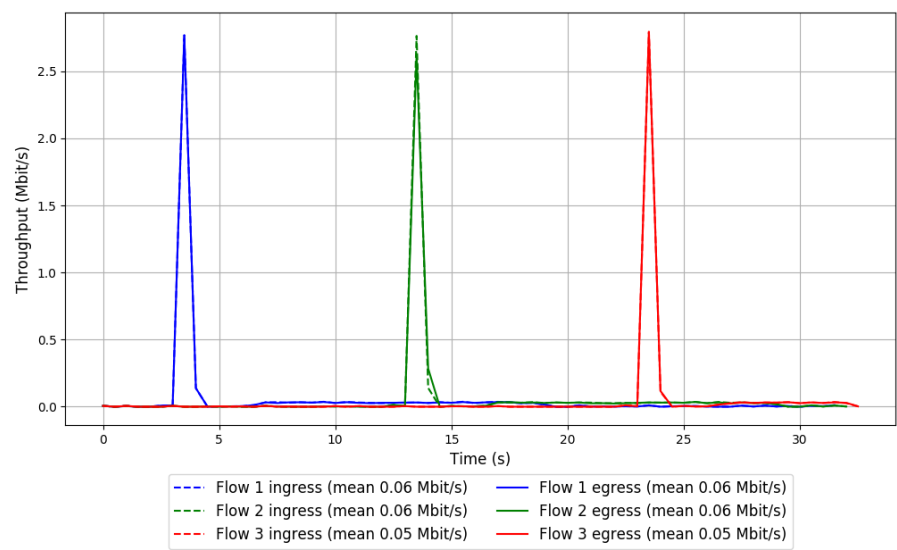


Run 8: Statistics of WebRTC media

Start at: 2018-04-17 19:05:23
End at: 2018-04-17 19:05:53
Local clock offset: -2.924 ms
Remote clock offset: -1.381 ms

Below is generated by plot.py at 2018-04-17 20:30:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 9.633 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 9.500 ms
Loss rate: 0.37%
-- Flow 2:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 9.415 ms
Loss rate: 0.57%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 9.969 ms
Loss rate: 0.16%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-04-17 19:25:23

End at: 2018-04-17 19:25:53

Local clock offset: -7.632 ms

Remote clock offset: 0.162 ms

Below is generated by plot.py at 2018-04-17 20:30:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.17 Mbit/s

95th percentile per-packet one-way delay: 10.430 ms

Loss rate: 3.28%

-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 10.470 ms

Loss rate: 1.07%

-- Flow 2:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 10.581 ms

Loss rate: 0.71%

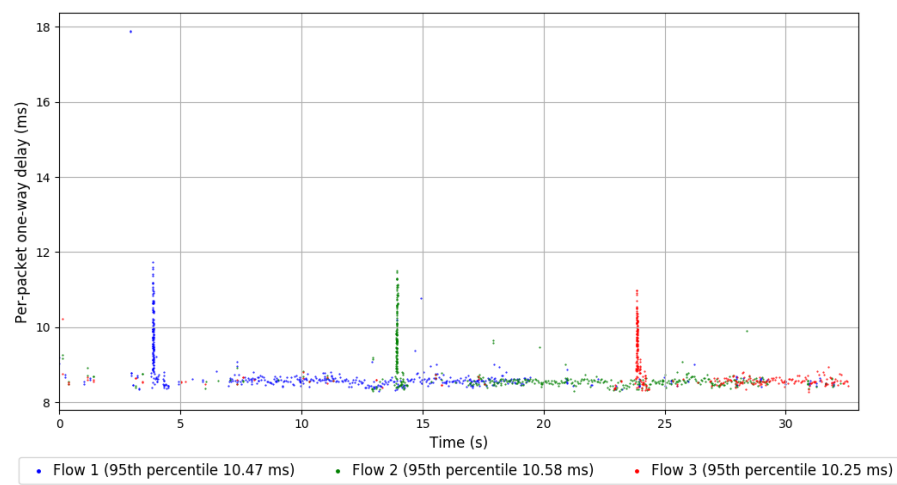
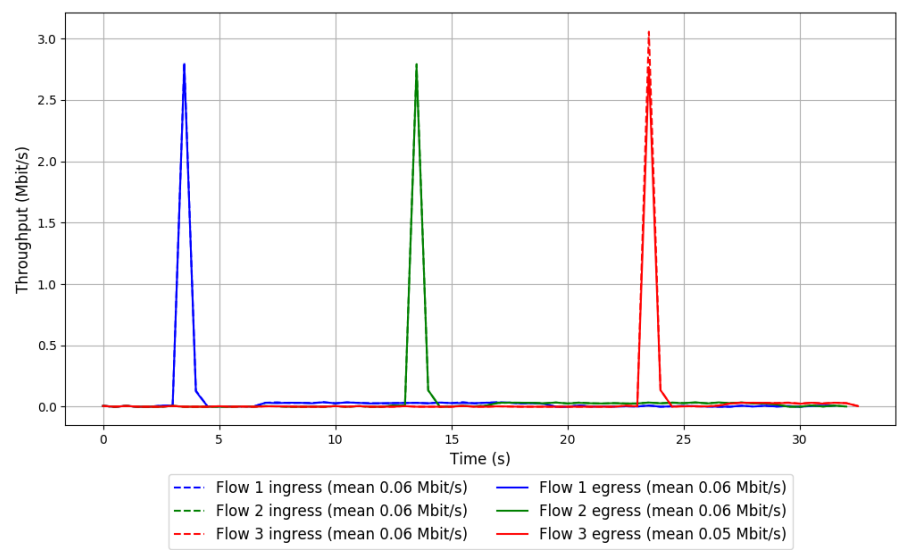
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 10.246 ms

Loss rate: 8.31%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-04-17 19:45:37

End at: 2018-04-17 19:46:07

Local clock offset: -7.131 ms

Remote clock offset: 1.113 ms

Below is generated by plot.py at 2018-04-17 20:30:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.17 Mbit/s

95th percentile per-packet one-way delay: 10.433 ms

Loss rate: 1.23%

-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 10.906 ms

Loss rate: 0.59%

-- Flow 2:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 10.357 ms

Loss rate: 0.28%

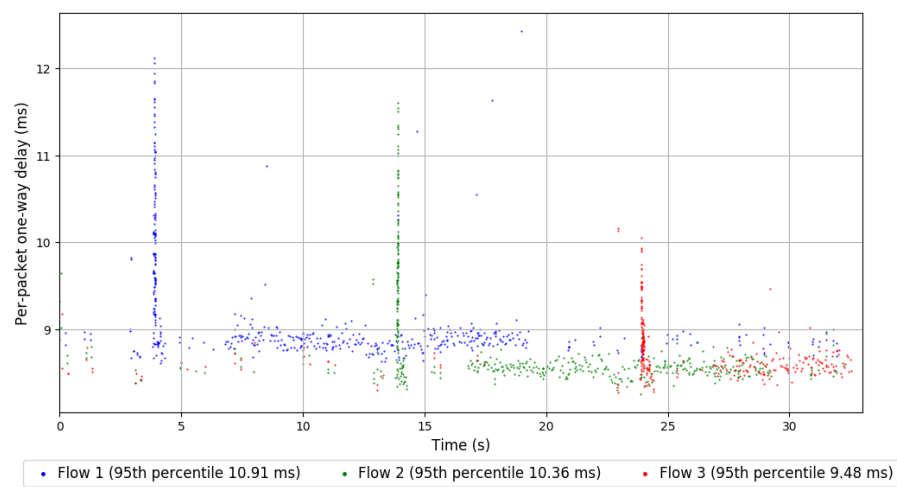
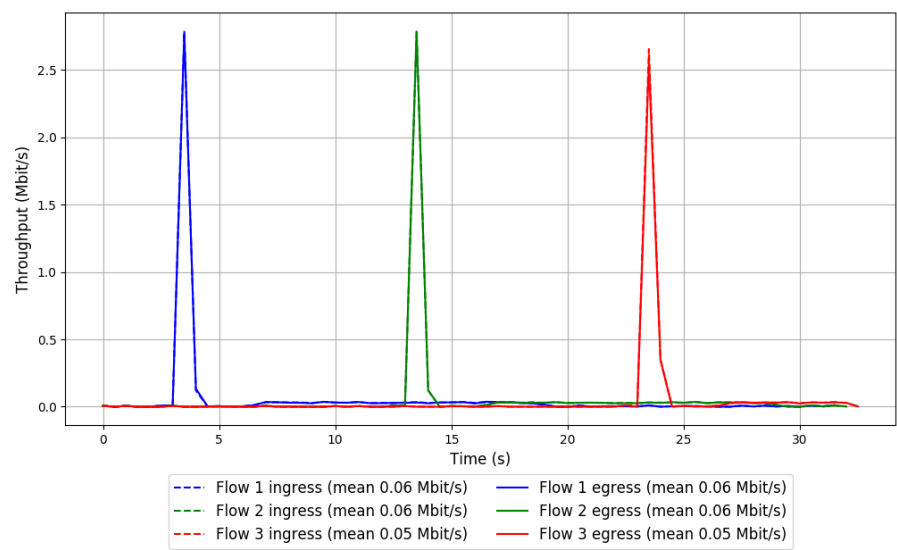
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 9.482 ms

Loss rate: 2.98%

Run 10: Report of WebRTC media — Data Link

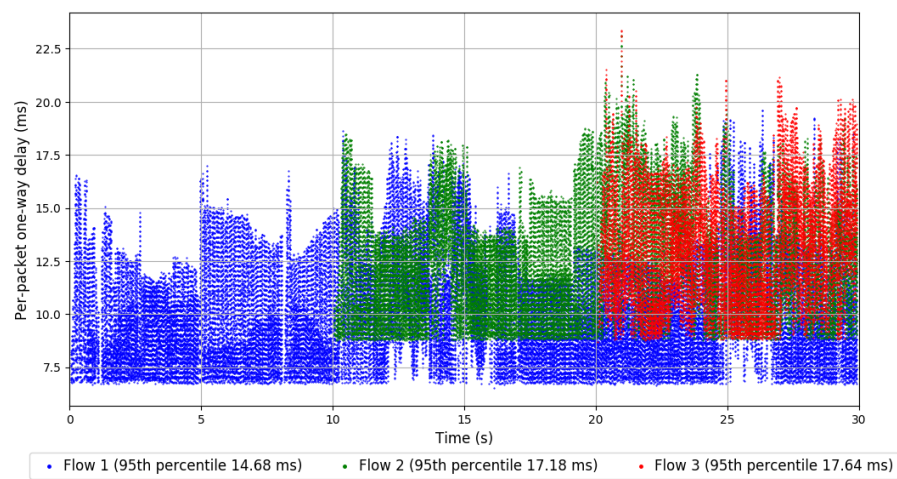
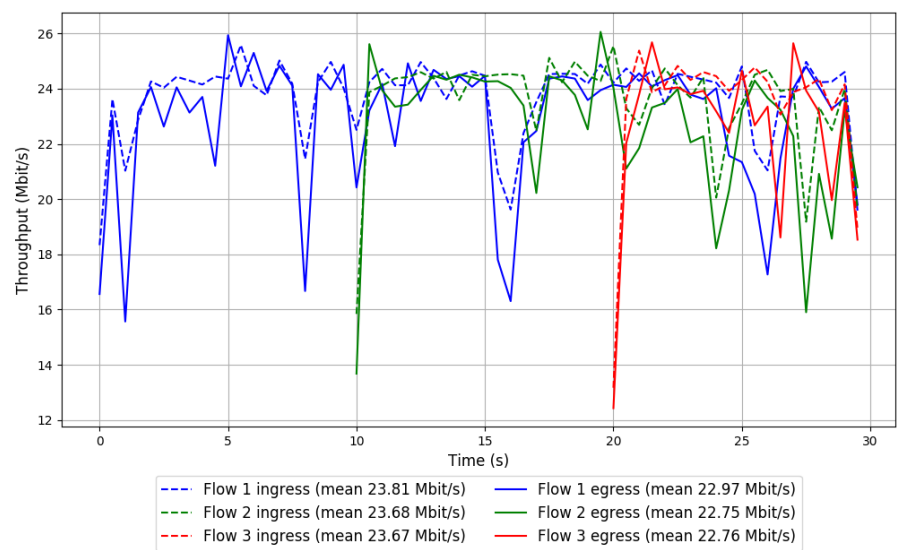


Run 1: Statistics of Sprout

Start at: 2018-04-17 16:38:50
End at: 2018-04-17 16:39:20
Local clock offset: -5.728 ms
Remote clock offset: -10.501 ms

Below is generated by plot.py at 2018-04-17 20:30:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 45.61 Mbit/s
95th percentile per-packet one-way delay: 16.541 ms
Loss rate: 3.71%
-- Flow 1:
Average throughput: 22.97 Mbit/s
95th percentile per-packet one-way delay: 14.683 ms
Loss rate: 3.53%
-- Flow 2:
Average throughput: 22.75 Mbit/s
95th percentile per-packet one-way delay: 17.180 ms
Loss rate: 3.90%
-- Flow 3:
Average throughput: 22.76 Mbit/s
95th percentile per-packet one-way delay: 17.638 ms
Loss rate: 3.85%

Run 1: Report of Sprout — Data Link

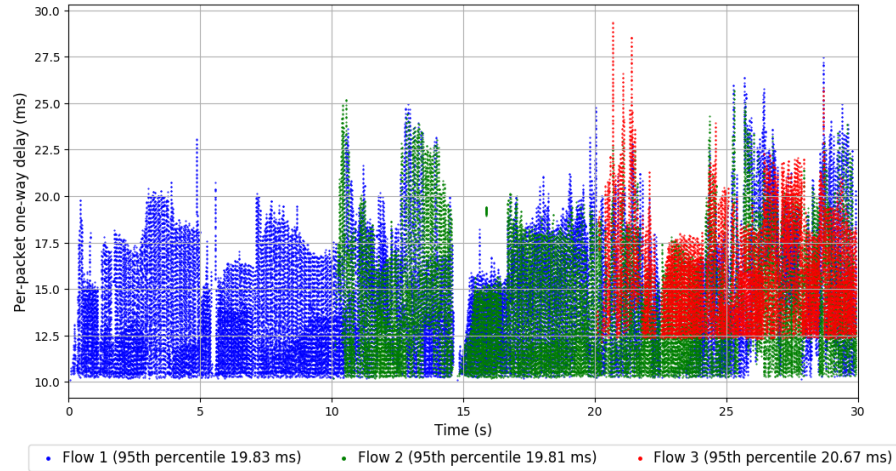
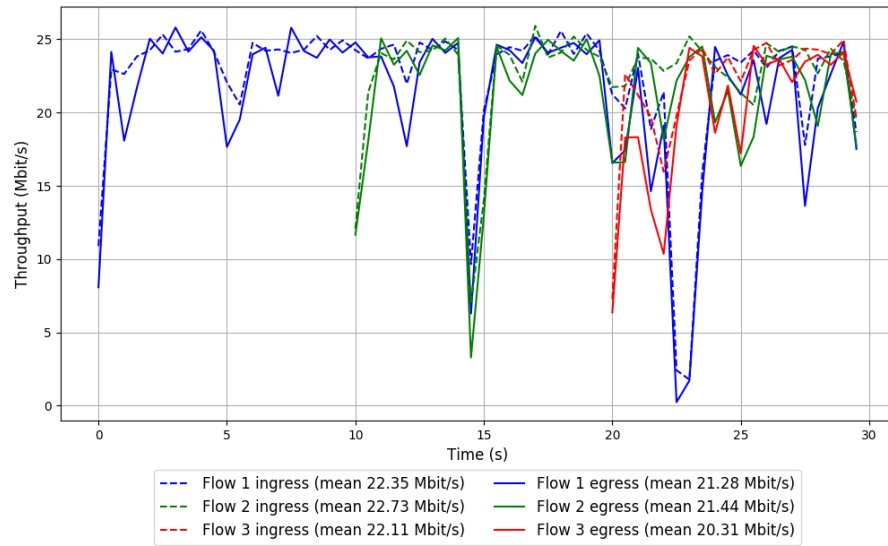


Run 2: Statistics of Sprout

Start at: 2018-04-17 16:59:22
End at: 2018-04-17 16:59:52
Local clock offset: -5.794 ms
Remote clock offset: -10.63 ms

```
# Below is generated by plot.py at 2018-04-17 20:30:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 42.23 Mbit/s
95th percentile per-packet one-way delay: 20.038 ms
Loss rate: 5.75%
-- Flow 1:
Average throughput: 21.28 Mbit/s
95th percentile per-packet one-way delay: 19.828 ms
Loss rate: 4.92%
-- Flow 2:
Average throughput: 21.44 Mbit/s
95th percentile per-packet one-way delay: 19.813 ms
Loss rate: 5.87%
-- Flow 3:
Average throughput: 20.31 Mbit/s
95th percentile per-packet one-way delay: 20.674 ms
Loss rate: 8.08%
```

Run 2: Report of Sprout — Data Link

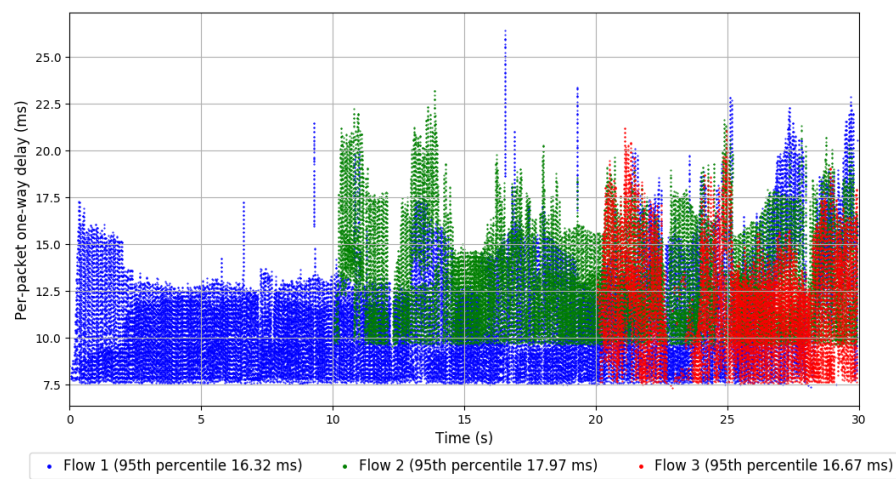
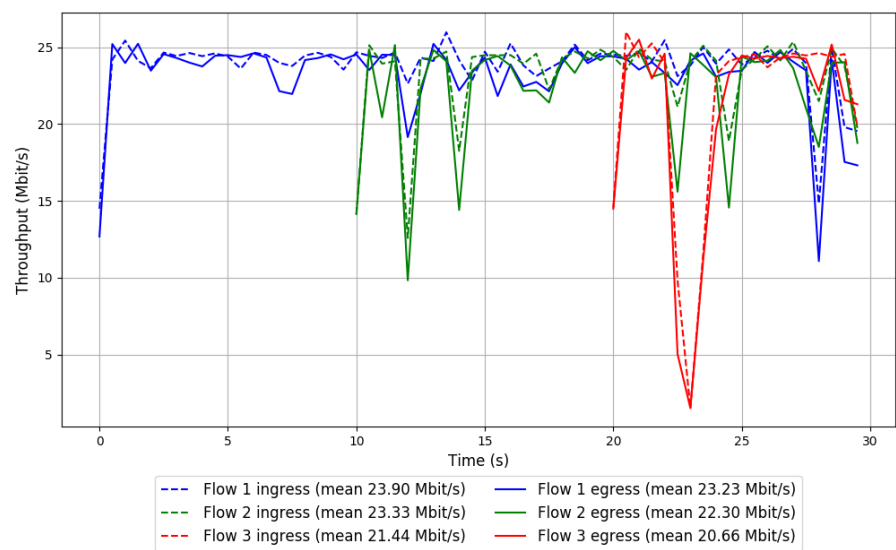


Run 3: Statistics of Sprout

Start at: 2018-04-17 17:19:26
End at: 2018-04-17 17:19:56
Local clock offset: -1.759 ms
Remote clock offset: -6.534 ms

```
# Below is generated by plot.py at 2018-04-17 20:30:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 44.89 Mbit/s
95th percentile per-packet one-way delay: 17.181 ms
Loss rate: 3.42%
-- Flow 1:
Average throughput: 23.23 Mbit/s
95th percentile per-packet one-way delay: 16.319 ms
Loss rate: 2.75%
-- Flow 2:
Average throughput: 22.30 Mbit/s
95th percentile per-packet one-way delay: 17.968 ms
Loss rate: 4.40%
-- Flow 3:
Average throughput: 20.66 Mbit/s
95th percentile per-packet one-way delay: 16.670 ms
Loss rate: 3.55%
```

Run 3: Report of Sprout — Data Link

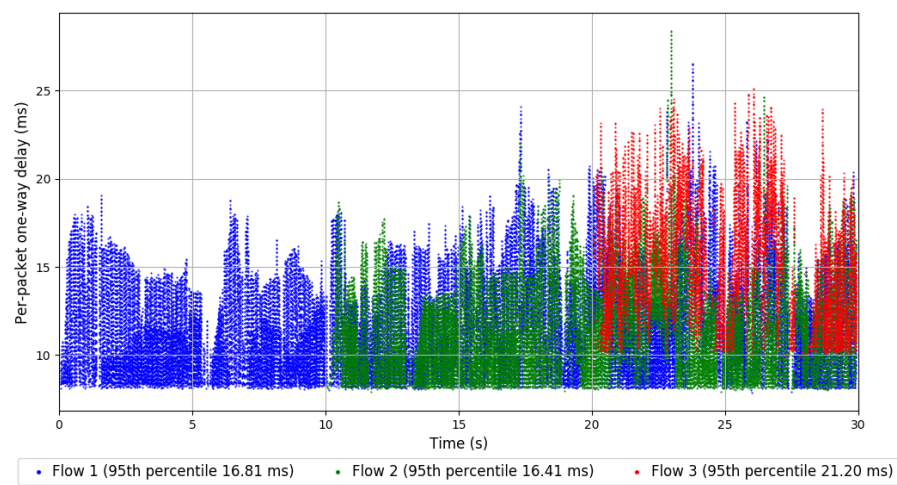
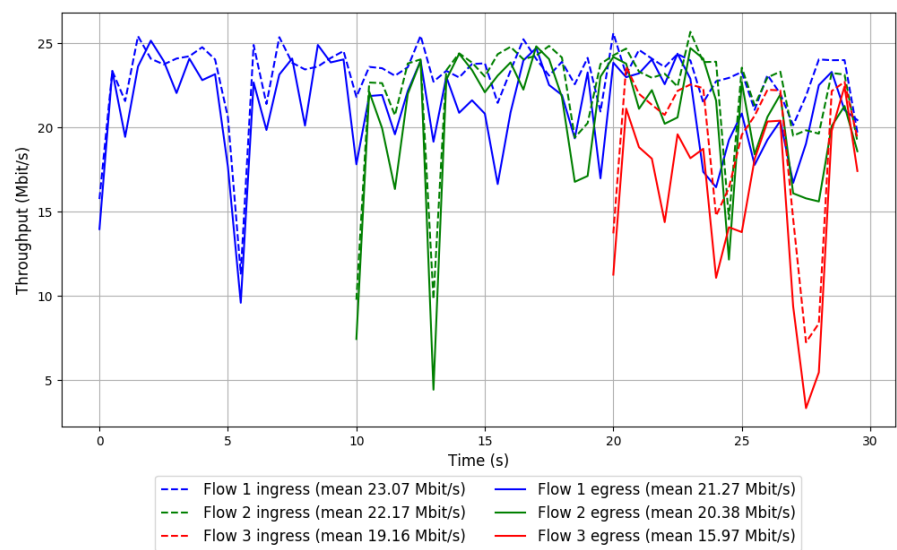


Run 4: Statistics of Sprout

Start at: 2018-04-17 17:39:20
End at: 2018-04-17 17:39:50
Local clock offset: -8.721 ms
Remote clock offset: -4.329 ms

```
# Below is generated by plot.py at 2018-04-17 20:30:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 40.10 Mbit/s
95th percentile per-packet one-way delay: 18.165 ms
Loss rate: 9.14%
-- Flow 1:
Average throughput: 21.27 Mbit/s
95th percentile per-packet one-way delay: 16.810 ms
Loss rate: 7.79%
-- Flow 2:
Average throughput: 20.38 Mbit/s
95th percentile per-packet one-way delay: 16.407 ms
Loss rate: 8.05%
-- Flow 3:
Average throughput: 15.97 Mbit/s
95th percentile per-packet one-way delay: 21.202 ms
Loss rate: 16.61%
```

Run 4: Report of Sprout — Data Link

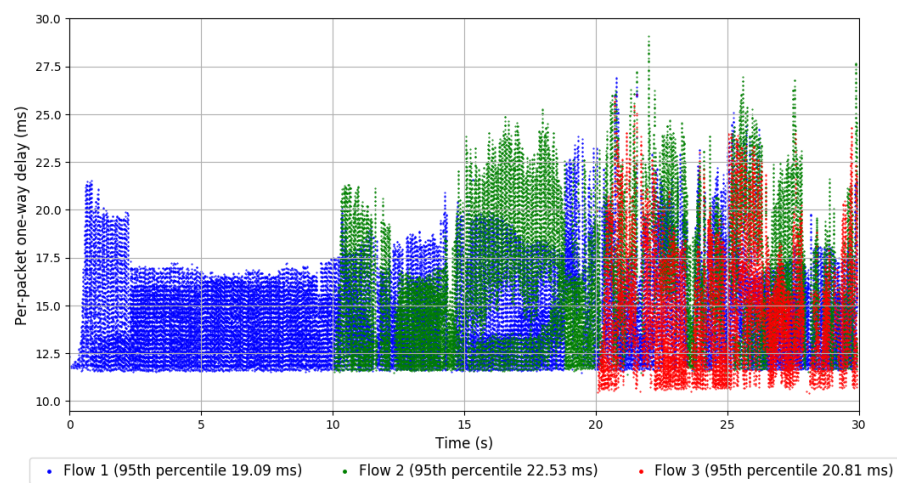
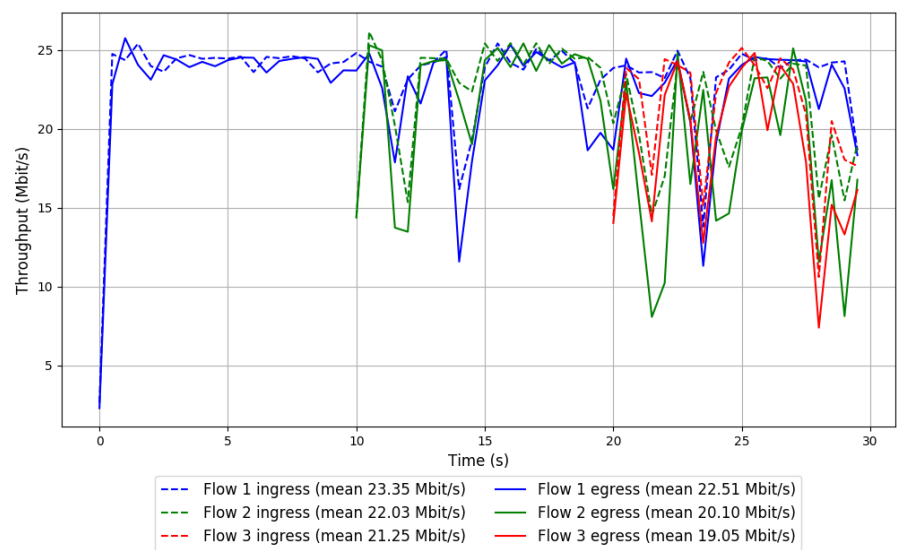


Run 5: Statistics of Sprout

Start at: 2018-04-17 17:59:19
End at: 2018-04-17 17:59:49
Local clock offset: -10.139 ms
Remote clock offset: -4.934 ms

```
# Below is generated by plot.py at 2018-04-17 20:30:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 42.16 Mbit/s
95th percentile per-packet one-way delay: 21.116 ms
Loss rate: 6.34%
-- Flow 1:
Average throughput: 22.51 Mbit/s
95th percentile per-packet one-way delay: 19.089 ms
Loss rate: 3.60%
-- Flow 2:
Average throughput: 20.10 Mbit/s
95th percentile per-packet one-way delay: 22.527 ms
Loss rate: 8.76%
-- Flow 3:
Average throughput: 19.05 Mbit/s
95th percentile per-packet one-way delay: 20.807 ms
Loss rate: 10.39%
```

Run 5: Report of Sprout — Data Link

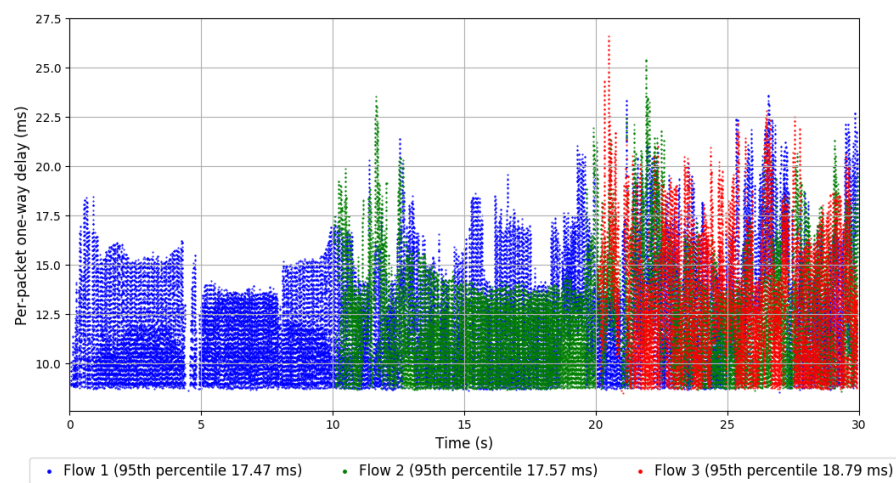
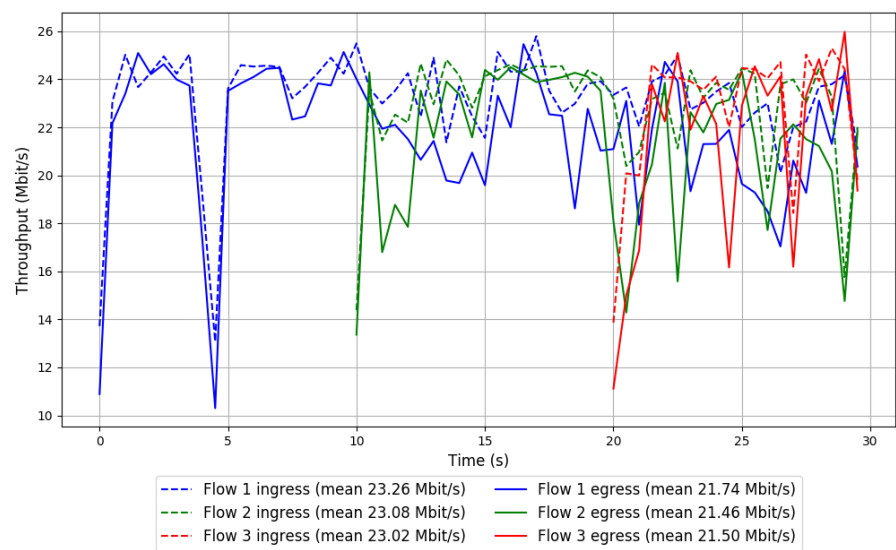


Run 6: Statistics of Sprout

Start at: 2018-04-17 18:19:23
End at: 2018-04-17 18:19:53
Local clock offset: -5.075 ms
Remote clock offset: -5.143 ms

```
# Below is generated by plot.py at 2018-04-17 20:30:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 43.12 Mbit/s
95th percentile per-packet one-way delay: 17.836 ms
Loss rate: 6.67%
-- Flow 1:
Average throughput: 21.74 Mbit/s
95th percentile per-packet one-way delay: 17.467 ms
Loss rate: 6.50%
-- Flow 2:
Average throughput: 21.46 Mbit/s
95th percentile per-packet one-way delay: 17.568 ms
Loss rate: 6.97%
-- Flow 3:
Average throughput: 21.50 Mbit/s
95th percentile per-packet one-way delay: 18.789 ms
Loss rate: 6.58%
```

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-04-17 18:39:26

End at: 2018-04-17 18:39:56

Local clock offset: -2.804 ms

Remote clock offset: -4.74 ms

Below is generated by plot.py at 2018-04-17 20:30:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 44.59 Mbit/s

95th percentile per-packet one-way delay: 16.907 ms

Loss rate: 5.06%

-- Flow 1:

Average throughput: 22.86 Mbit/s

95th percentile per-packet one-way delay: 15.889 ms

Loss rate: 4.17%

-- Flow 2:

Average throughput: 22.06 Mbit/s

95th percentile per-packet one-way delay: 17.176 ms

Loss rate: 5.58%

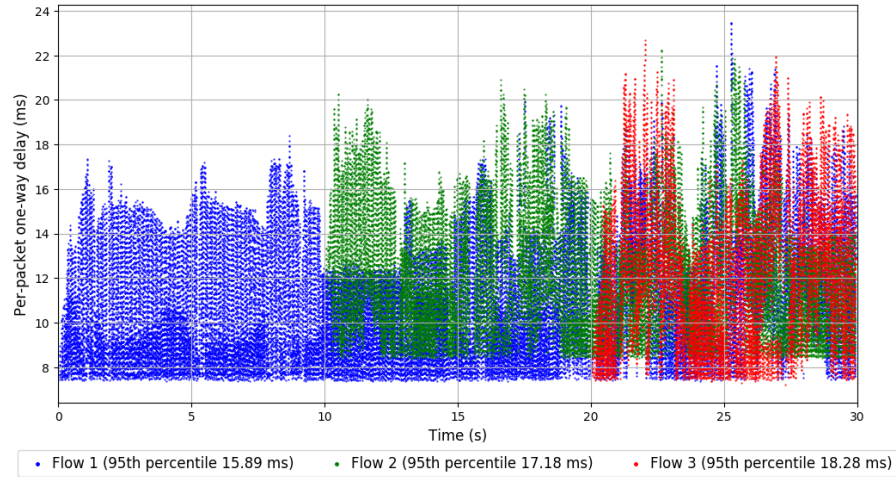
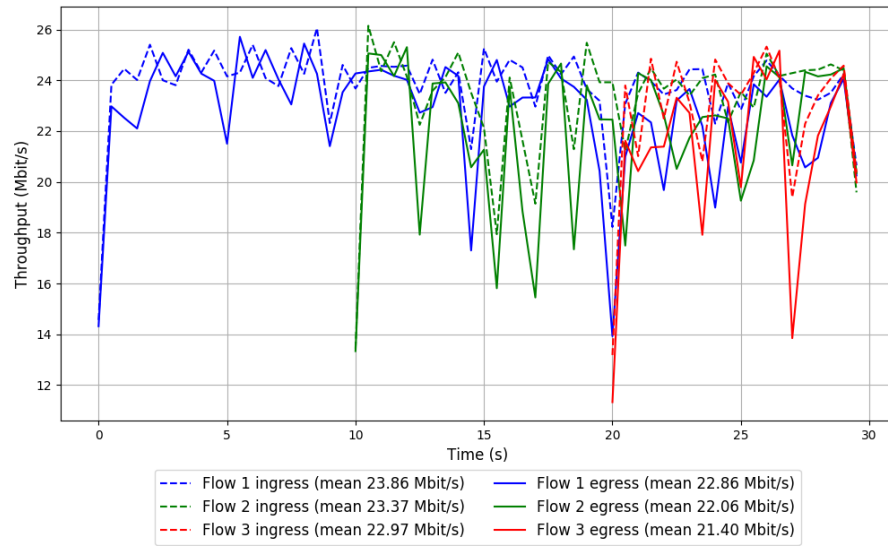
-- Flow 3:

Average throughput: 21.40 Mbit/s

95th percentile per-packet one-way delay: 18.282 ms

Loss rate: 6.78%

Run 7: Report of Sprout — Data Link

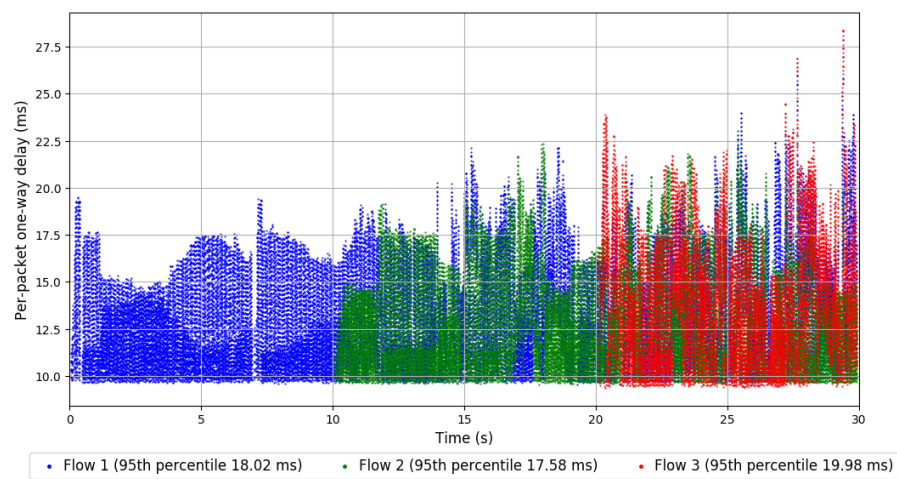
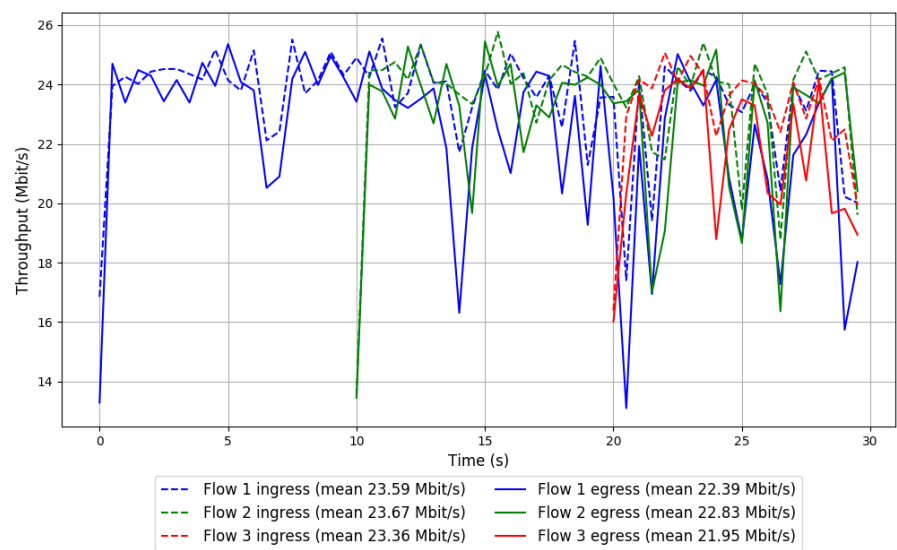


Run 8: Statistics of Sprout

Start at: 2018-04-17 18:59:30
End at: 2018-04-17 19:00:00
Local clock offset: -2.142 ms
Remote clock offset: -1.193 ms

Below is generated by plot.py at 2018-04-17 20:30:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 44.82 Mbit/s
95th percentile per-packet one-way delay: 18.273 ms
Loss rate: 4.74%
-- Flow 1:
Average throughput: 22.39 Mbit/s
95th percentile per-packet one-way delay: 18.022 ms
Loss rate: 5.14%
-- Flow 2:
Average throughput: 22.83 Mbit/s
95th percentile per-packet one-way delay: 17.582 ms
Loss rate: 3.49%
-- Flow 3:
Average throughput: 21.95 Mbit/s
95th percentile per-packet one-way delay: 19.980 ms
Loss rate: 6.04%

Run 8: Report of Sprout — Data Link

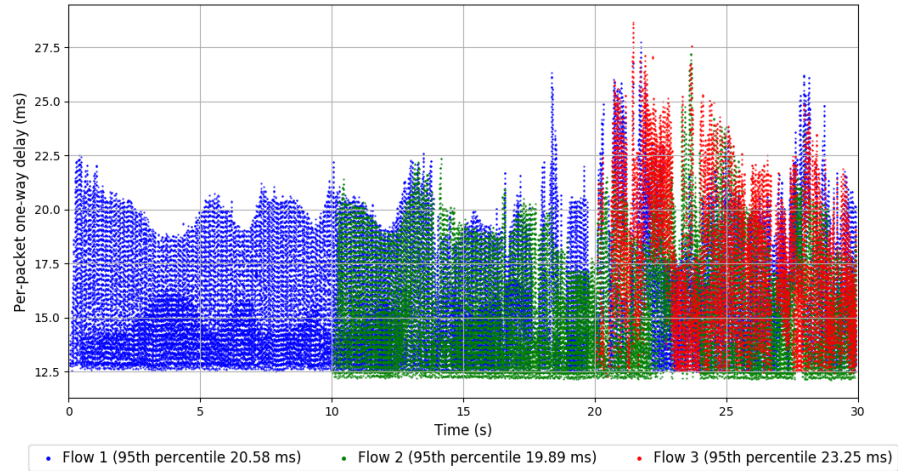
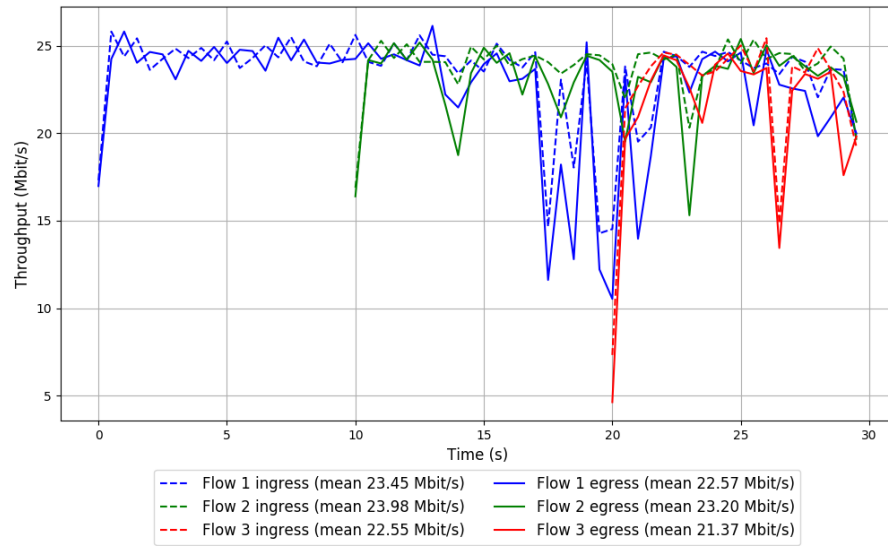


Run 9: Statistics of Sprout

Start at: 2018-04-17 19:19:30
End at: 2018-04-17 19:20:00
Local clock offset: -10.313 ms
Remote clock offset: 0.607 ms

```
# Below is generated by plot.py at 2018-04-17 20:31:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 45.06 Mbit/s
95th percentile per-packet one-way delay: 21.155 ms
Loss rate: 3.80%
-- Flow 1:
Average throughput: 22.57 Mbit/s
95th percentile per-packet one-way delay: 20.582 ms
Loss rate: 3.76%
-- Flow 2:
Average throughput: 23.20 Mbit/s
95th percentile per-packet one-way delay: 19.894 ms
Loss rate: 3.20%
-- Flow 3:
Average throughput: 21.37 Mbit/s
95th percentile per-packet one-way delay: 23.246 ms
Loss rate: 5.19%
```

Run 9: Report of Sprout — Data Link

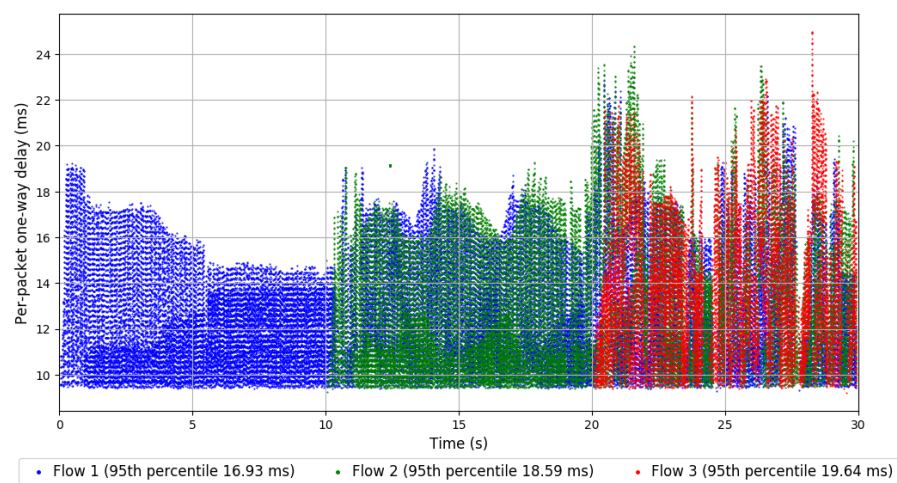
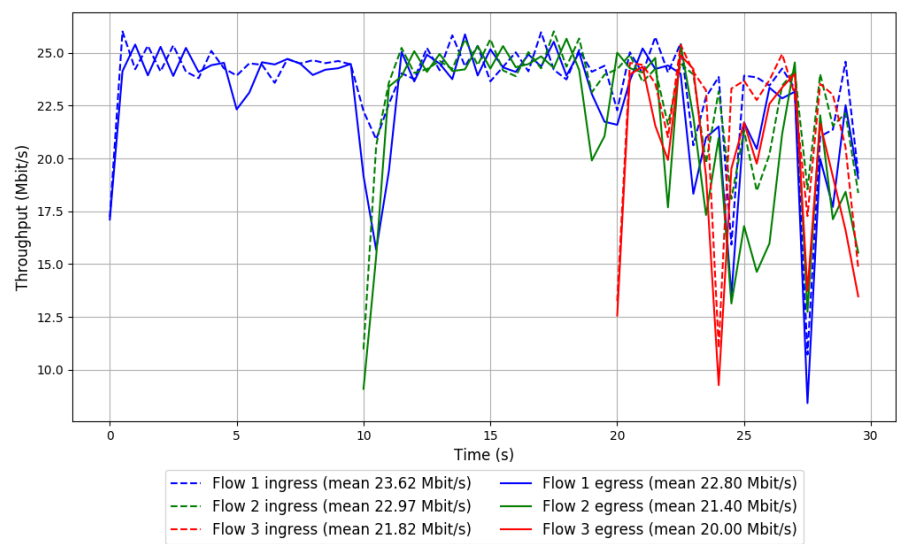


Run 10: Statistics of Sprout

Start at: 2018-04-17 19:39:35
End at: 2018-04-17 19:40:05
Local clock offset: -8.298 ms
Remote clock offset: 1.261 ms

```
# Below is generated by plot.py at 2018-04-17 20:31:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 43.64 Mbit/s
95th percentile per-packet one-way delay: 17.993 ms
Loss rate: 5.34%
-- Flow 1:
Average throughput: 22.80 Mbit/s
95th percentile per-packet one-way delay: 16.929 ms
Loss rate: 3.47%
-- Flow 2:
Average throughput: 21.40 Mbit/s
95th percentile per-packet one-way delay: 18.589 ms
Loss rate: 6.85%
-- Flow 3:
Average throughput: 20.00 Mbit/s
95th percentile per-packet one-way delay: 19.637 ms
Loss rate: 8.27%
```

Run 10: Report of Sprout — Data Link

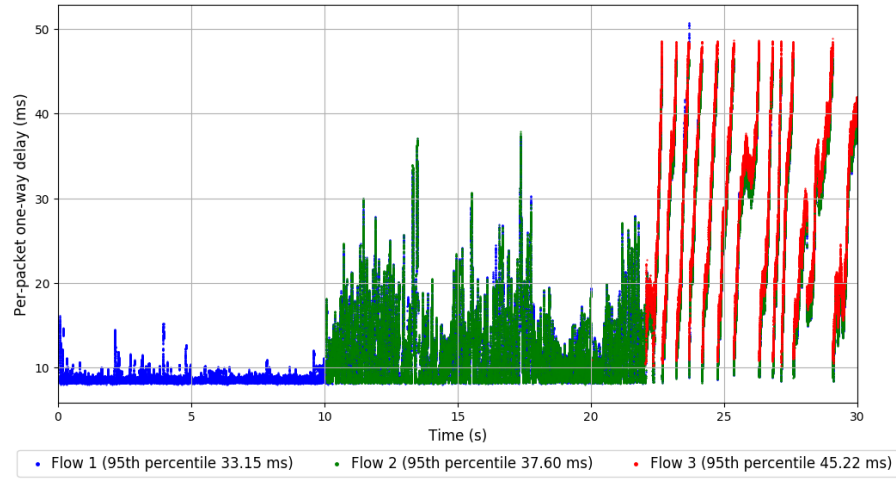
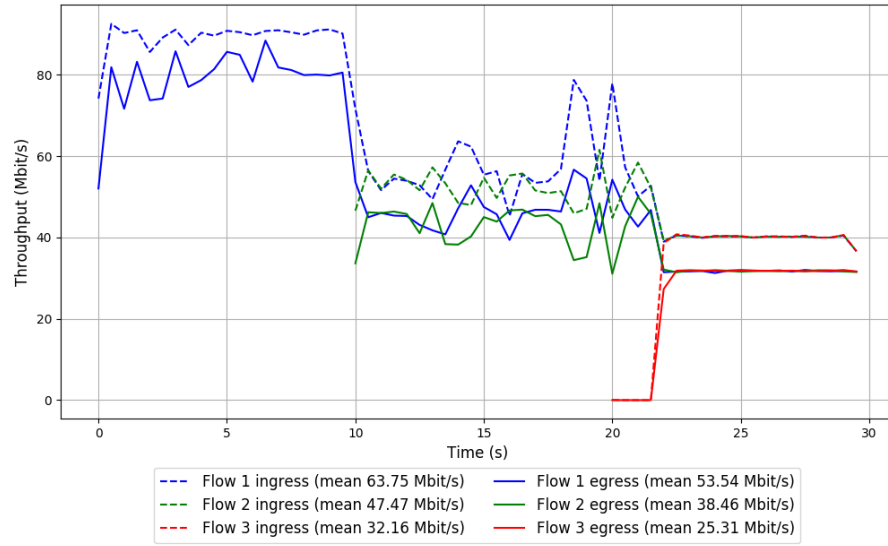


Run 1: Statistics of TaoVA-100x

Start at: 2018-04-17 16:42:22
End at: 2018-04-17 16:42:52
Local clock offset: -6.252 ms
Remote clock offset: -9.953 ms

Below is generated by plot.py at 2018-04-17 20:33:11
Datalink statistics
-- Total of 3 flows:
Average throughput: 87.59 Mbit/s
95th percentile per-packet one-way delay: 37.617 ms
Loss rate: 17.33%
-- Flow 1:
Average throughput: 53.54 Mbit/s
95th percentile per-packet one-way delay: 33.148 ms
Loss rate: 15.94%
-- Flow 2:
Average throughput: 38.46 Mbit/s
95th percentile per-packet one-way delay: 37.598 ms
Loss rate: 18.86%
-- Flow 3:
Average throughput: 25.31 Mbit/s
95th percentile per-packet one-way delay: 45.222 ms
Loss rate: 21.07%

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

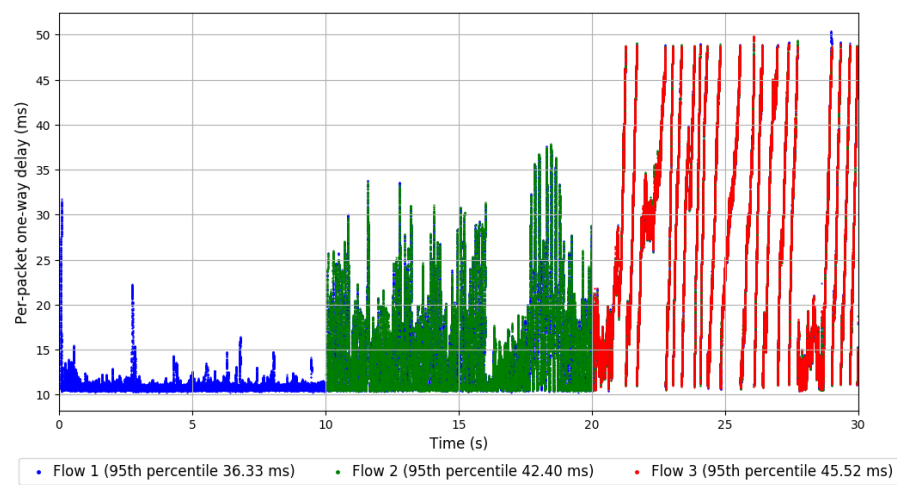
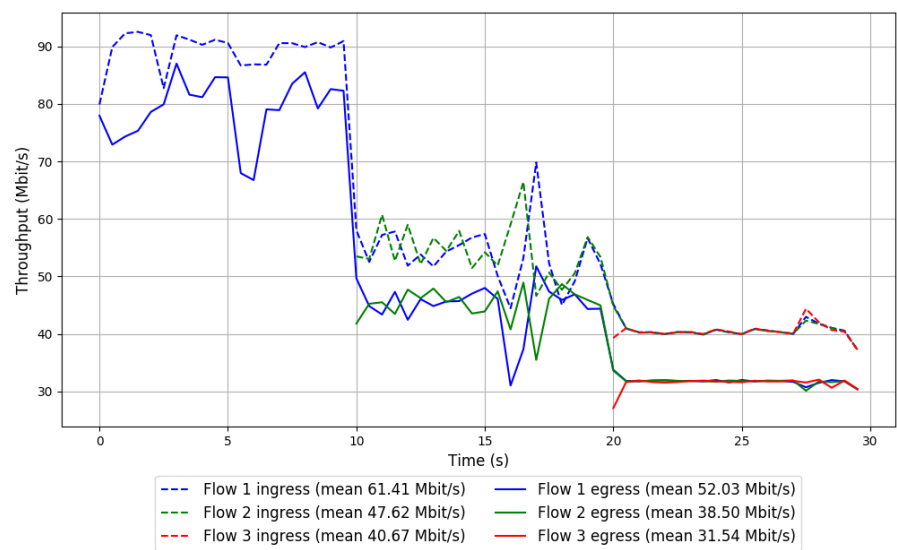


Run 2: Statistics of TaoVA-100x

Start at: 2018-04-17 17:02:49
End at: 2018-04-17 17:03:19
Local clock offset: -5.742 ms
Remote clock offset: -10.949 ms

Below is generated by plot.py at 2018-04-17 20:33:15
Datalink statistics
-- Total of 3 flows:
Average throughput: 88.16 Mbit/s
95th percentile per-packet one-way delay: 41.597 ms
Loss rate: 17.31%
-- Flow 1:
Average throughput: 52.03 Mbit/s
95th percentile per-packet one-way delay: 36.331 ms
Loss rate: 15.25%
-- Flow 2:
Average throughput: 38.50 Mbit/s
95th percentile per-packet one-way delay: 42.396 ms
Loss rate: 19.13%
-- Flow 3:
Average throughput: 31.54 Mbit/s
95th percentile per-packet one-way delay: 45.518 ms
Loss rate: 22.40%

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

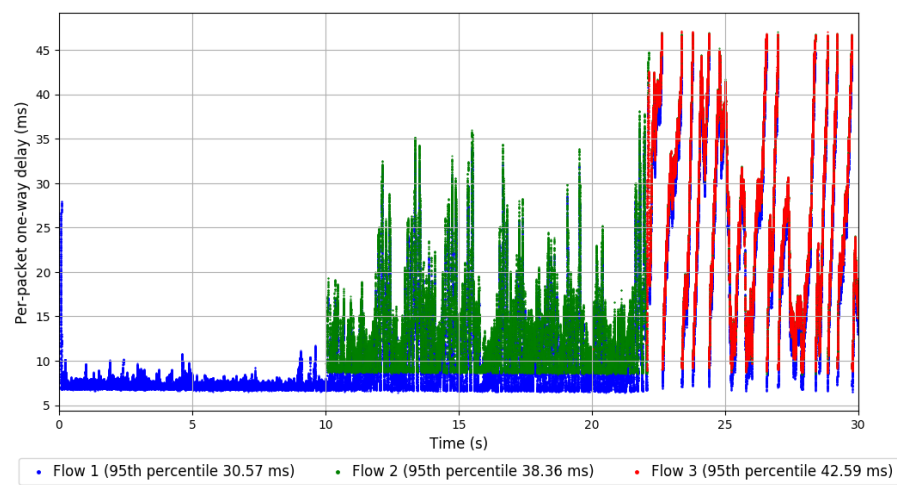
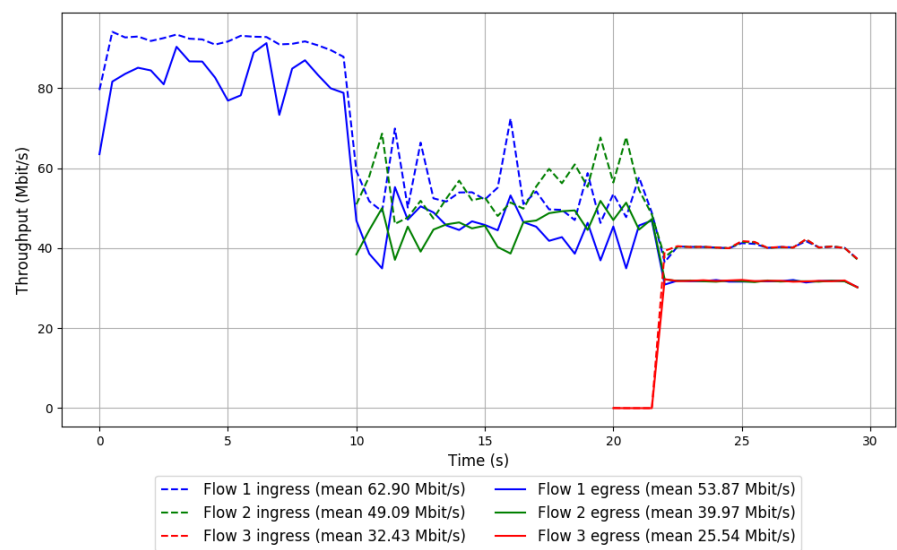


Run 3: Statistics of TaoVA-100x

Start at: 2018-04-17 17:22:58
End at: 2018-04-17 17:23:28
Local clock offset: -2.62 ms
Remote clock offset: -5.714 ms

Below is generated by plot.py at 2018-04-17 20:33:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 88.98 Mbit/s
95th percentile per-packet one-way delay: 36.909 ms
Loss rate: 16.32%
-- Flow 1:
Average throughput: 53.87 Mbit/s
95th percentile per-packet one-way delay: 30.568 ms
Loss rate: 14.33%
-- Flow 2:
Average throughput: 39.97 Mbit/s
95th percentile per-packet one-way delay: 38.362 ms
Loss rate: 18.54%
-- Flow 3:
Average throughput: 25.54 Mbit/s
95th percentile per-packet one-way delay: 42.589 ms
Loss rate: 21.20%

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

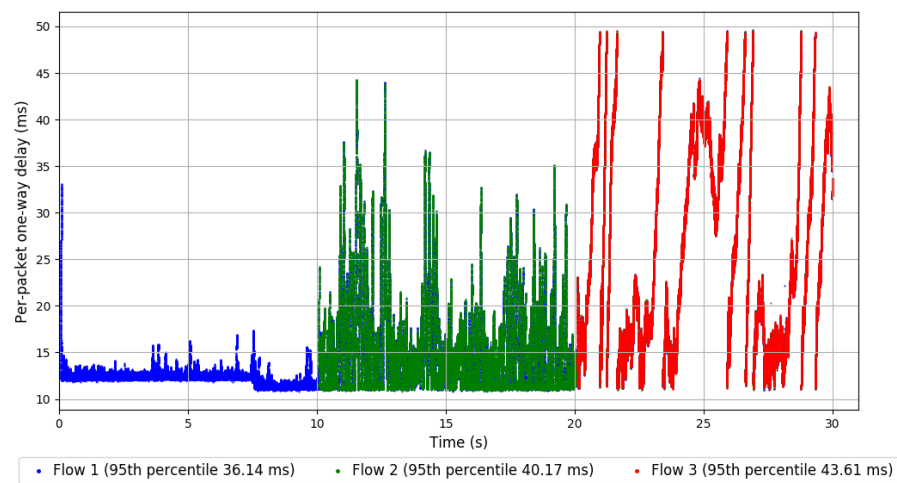
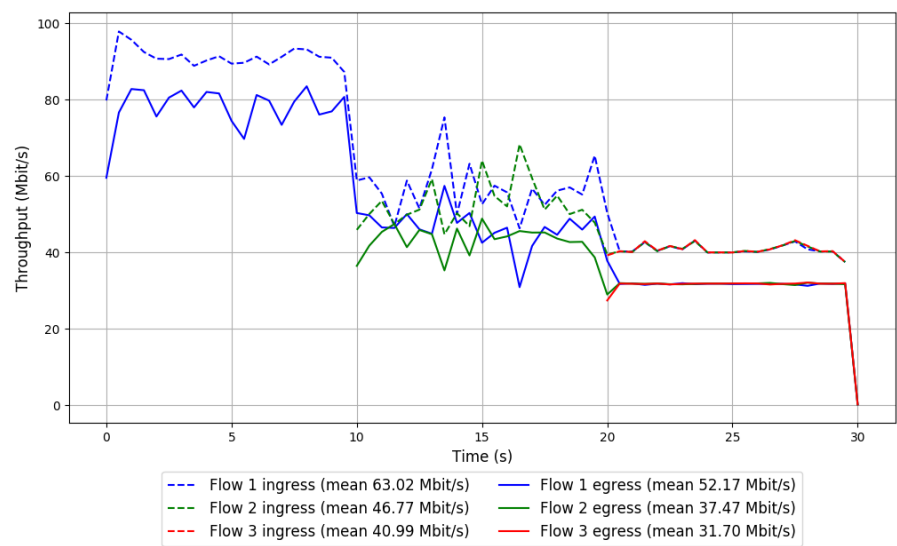


Run 4: Statistics of TaoVA-100x

Start at: 2018-04-17 17:42:47
End at: 2018-04-17 17:43:17
Local clock offset: -10.865 ms
Remote clock offset: -4.675 ms

Below is generated by plot.py at 2018-04-17 20:33:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 87.66 Mbit/s
95th percentile per-packet one-way delay: 39.530 ms
Loss rate: 18.58%
-- Flow 1:
Average throughput: 52.17 Mbit/s
95th percentile per-packet one-way delay: 36.144 ms
Loss rate: 17.15%
-- Flow 2:
Average throughput: 37.47 Mbit/s
95th percentile per-packet one-way delay: 40.169 ms
Loss rate: 19.79%
-- Flow 3:
Average throughput: 31.70 Mbit/s
95th percentile per-packet one-way delay: 43.610 ms
Loss rate: 22.45%

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

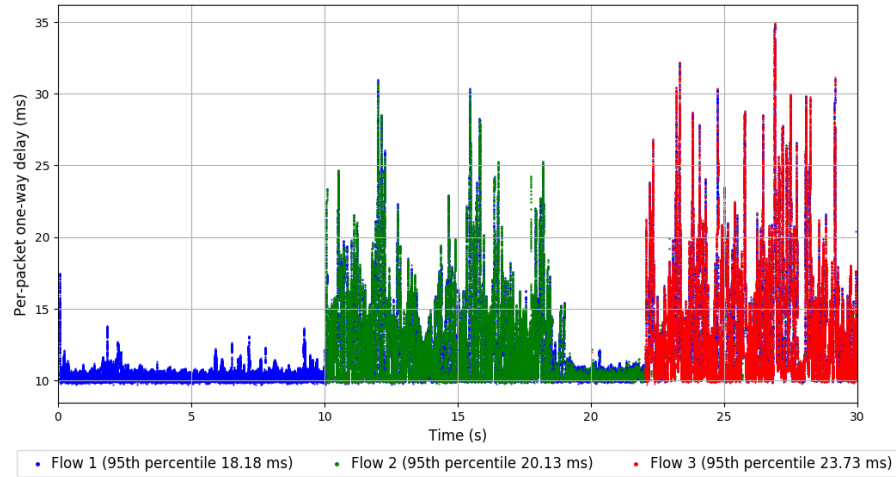
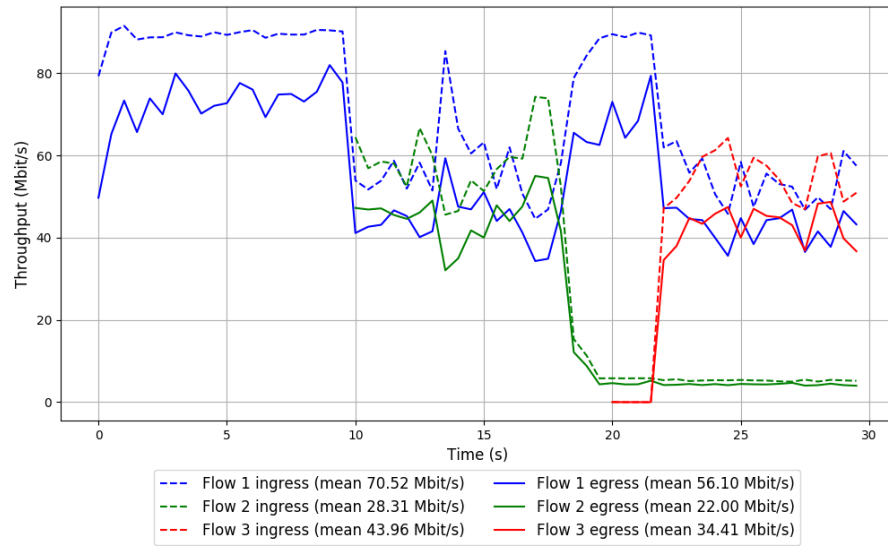


Run 5: Statistics of TaoVA-100x

Start at: 2018-04-17 18:02:44
End at: 2018-04-17 18:03:14
Local clock offset: -9.443 ms
Remote clock offset: -5.665 ms

Below is generated by plot.py at 2018-04-17 20:33:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 82.18 Mbit/s
95th percentile per-packet one-way delay: 19.810 ms
Loss rate: 20.96%
-- Flow 1:
Average throughput: 56.10 Mbit/s
95th percentile per-packet one-way delay: 18.185 ms
Loss rate: 20.44%
-- Flow 2:
Average throughput: 22.00 Mbit/s
95th percentile per-packet one-way delay: 20.131 ms
Loss rate: 22.31%
-- Flow 3:
Average throughput: 34.41 Mbit/s
95th percentile per-packet one-way delay: 23.728 ms
Loss rate: 21.74%

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

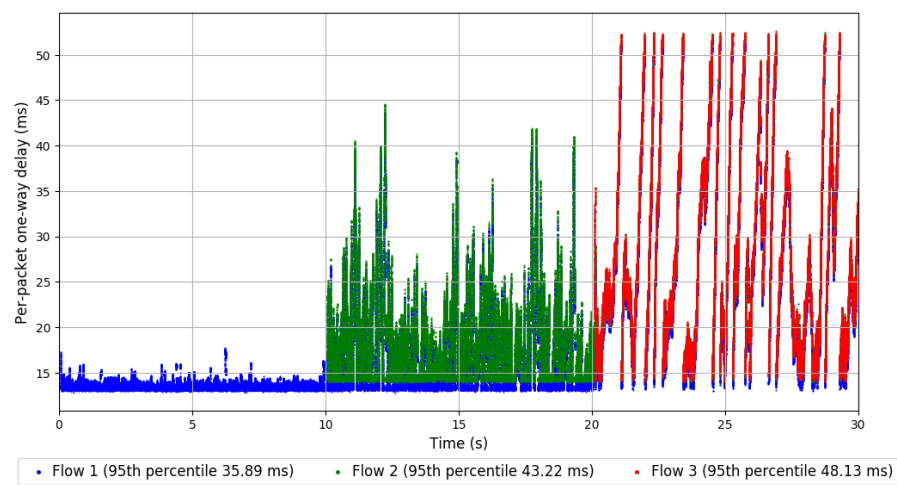
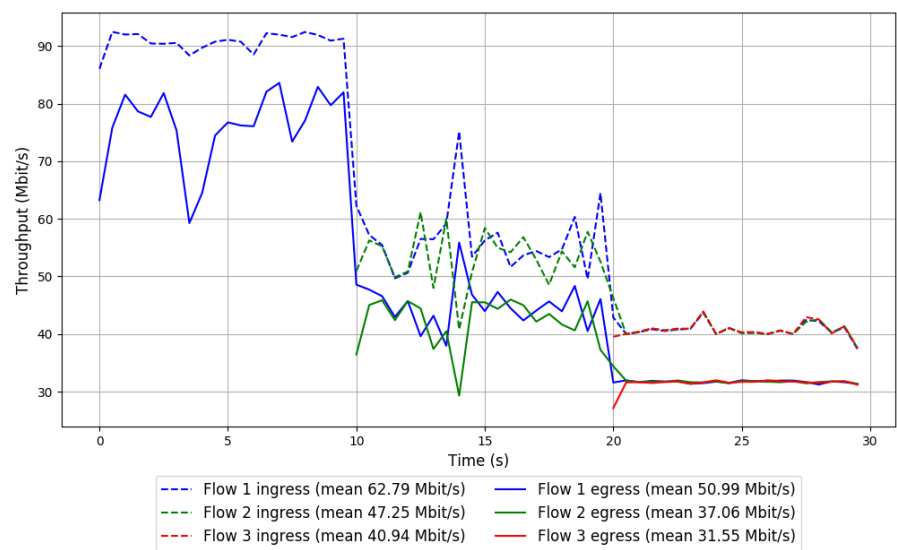


Run 6: Statistics of TaoVA-100x

Start at: 2018-04-17 18:22:51
End at: 2018-04-17 18:23:21
Local clock offset: -11.976 ms
Remote clock offset: -6.96 ms

Below is generated by plot.py at 2018-04-17 20:33:31
Datalink statistics
-- Total of 3 flows:
Average throughput: 86.14 Mbit/s
95th percentile per-packet one-way delay: 41.432 ms
Loss rate: 20.05%
-- Flow 1:
Average throughput: 50.99 Mbit/s
95th percentile per-packet one-way delay: 35.887 ms
Loss rate: 18.74%
-- Flow 2:
Average throughput: 37.06 Mbit/s
95th percentile per-packet one-way delay: 43.224 ms
Loss rate: 21.47%
-- Flow 3:
Average throughput: 31.55 Mbit/s
95th percentile per-packet one-way delay: 48.130 ms
Loss rate: 22.80%

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

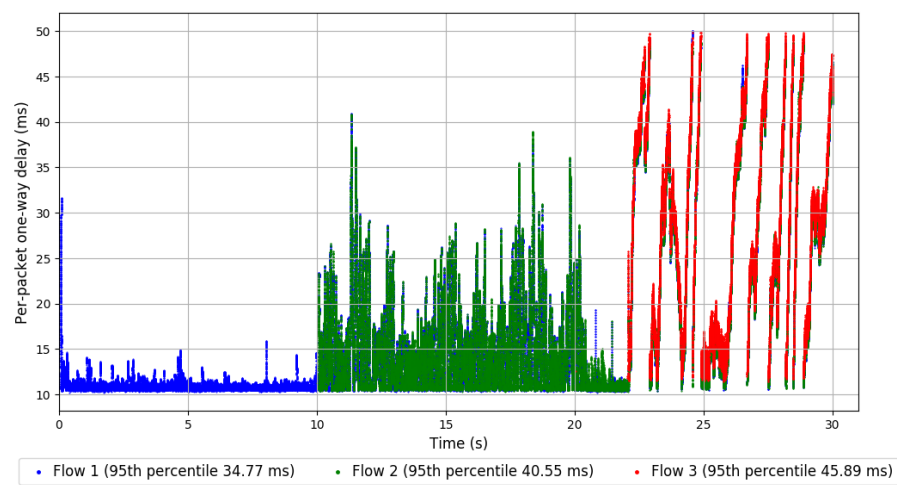
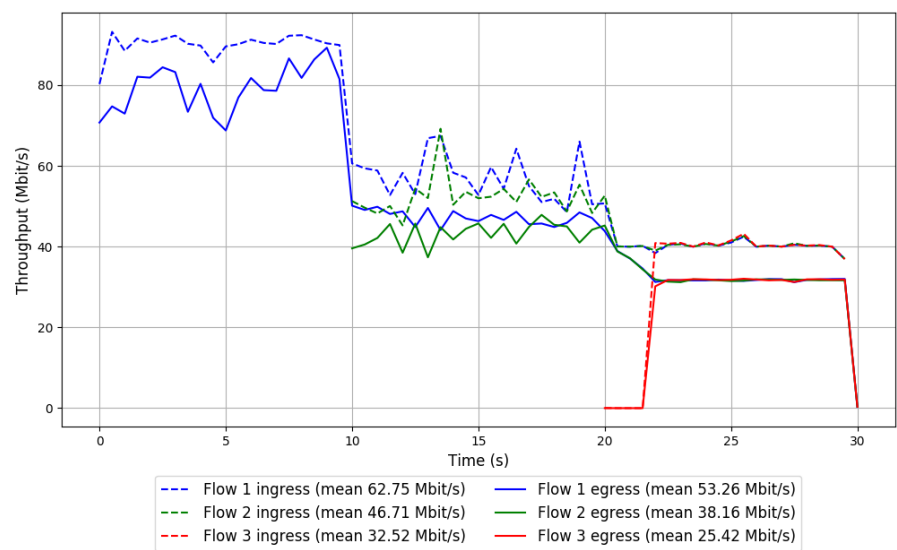


Run 7: Statistics of TaoVA-100x

Start at: 2018-04-17 18:42:57
End at: 2018-04-17 18:43:27
Local clock offset: -5.69 ms
Remote clock offset: -4.821 ms

Below is generated by plot.py at 2018-04-17 20:33:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 87.15 Mbit/s
95th percentile per-packet one-way delay: 39.830 ms
Loss rate: 16.64%
-- Flow 1:
Average throughput: 53.26 Mbit/s
95th percentile per-packet one-way delay: 34.771 ms
Loss rate: 15.04%
-- Flow 2:
Average throughput: 38.16 Mbit/s
95th percentile per-packet one-way delay: 40.545 ms
Loss rate: 18.16%
-- Flow 3:
Average throughput: 25.42 Mbit/s
95th percentile per-packet one-way delay: 45.888 ms
Loss rate: 21.58%

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

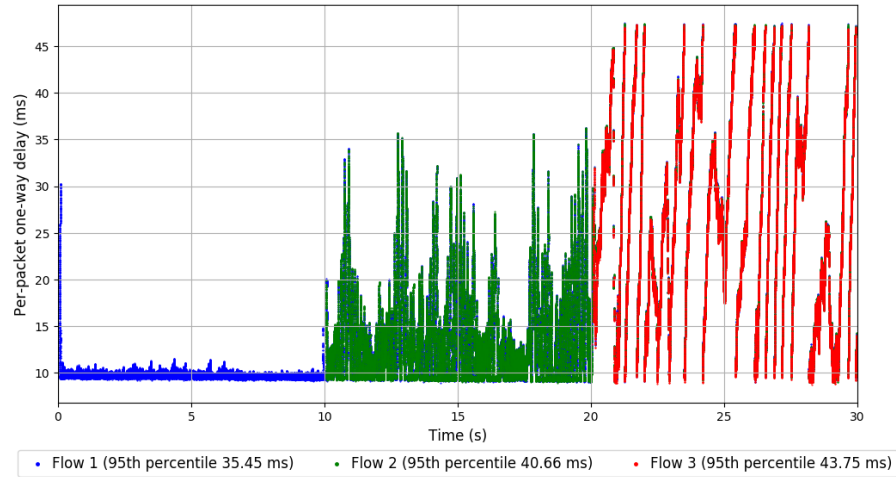
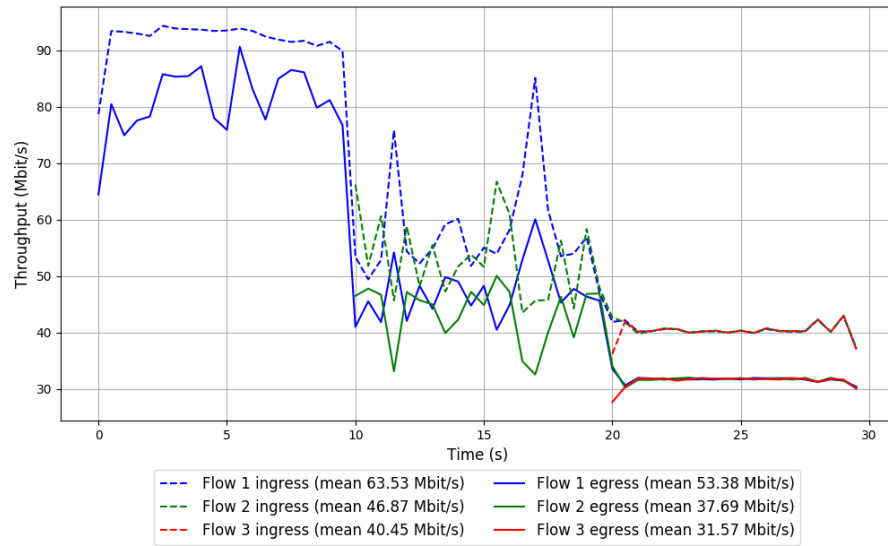


Run 8: Statistics of TaoVA-100x

Start at: 2018-04-17 19:02:54
End at: 2018-04-17 19:03:24
Local clock offset: -2.111 ms
Remote clock offset: -0.915 ms

Below is generated by plot.py at 2018-04-17 20:34:03
Datalink statistics
-- Total of 3 flows:
Average throughput: 88.97 Mbit/s
95th percentile per-packet one-way delay: 39.892 ms
Loss rate: 17.75%
-- Flow 1:
Average throughput: 53.38 Mbit/s
95th percentile per-packet one-way delay: 35.453 ms
Loss rate: 15.97%
-- Flow 2:
Average throughput: 37.69 Mbit/s
95th percentile per-packet one-way delay: 40.655 ms
Loss rate: 19.57%
-- Flow 3:
Average throughput: 31.57 Mbit/s
95th percentile per-packet one-way delay: 43.753 ms
Loss rate: 21.95%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-04-17 19:22:57

End at: 2018-04-17 19:23:27

Local clock offset: -6.976 ms

Remote clock offset: 0.292 ms

Below is generated by plot.py at 2018-04-17 20:35:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.27 Mbit/s

95th percentile per-packet one-way delay: 37.882 ms

Loss rate: 18.06%

-- Flow 1:

Average throughput: 54.20 Mbit/s

95th percentile per-packet one-way delay: 31.882 ms

Loss rate: 16.33%

-- Flow 2:

Average throughput: 37.64 Mbit/s

95th percentile per-packet one-way delay: 39.889 ms

Loss rate: 20.14%

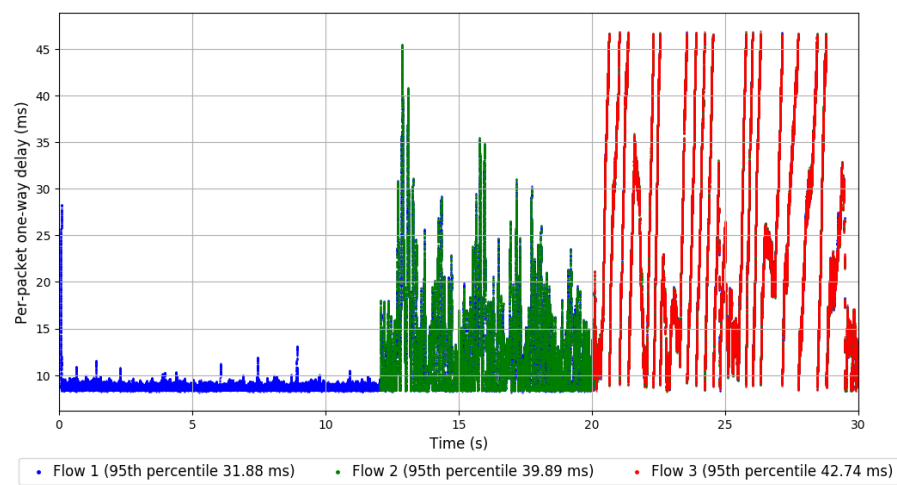
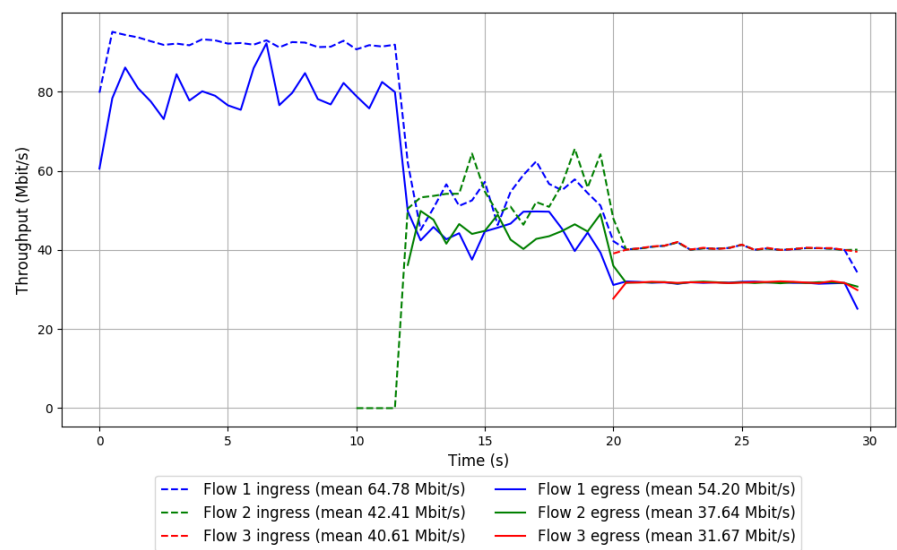
-- Flow 3:

Average throughput: 31.67 Mbit/s

95th percentile per-packet one-way delay: 42.739 ms

Loss rate: 22.02%

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

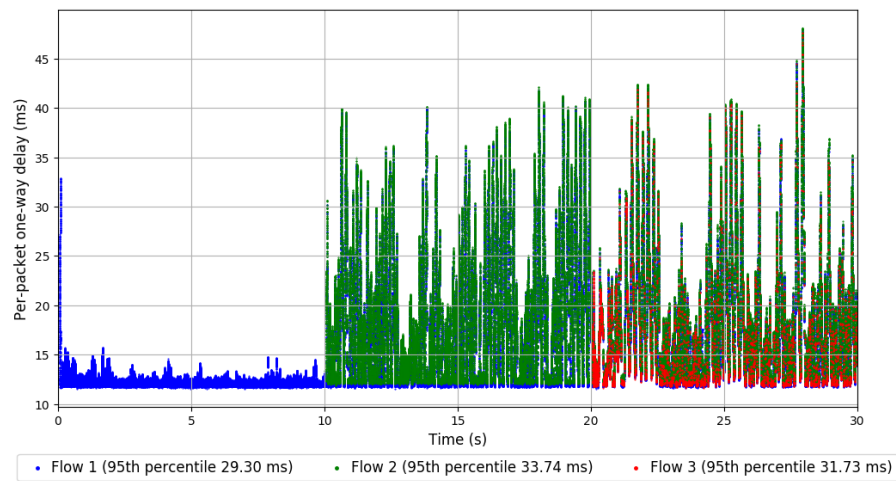
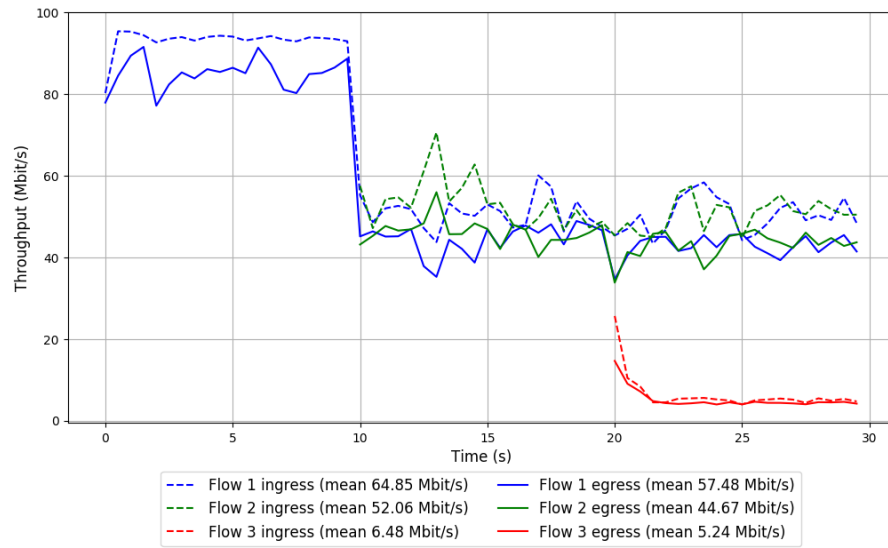


```
Run 10: Statistics of TaoVA-100x

Start at: 2018-04-17 19:43:01
End at: 2018-04-17 19:43:31
Local clock offset: -10.504 ms
Remote clock offset: 1.006 ms

# Below is generated by plot.py at 2018-04-17 20:35:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 88.97 Mbit/s
95th percentile per-packet one-way delay: 31.339 ms
Loss rate: 12.50%
-- Flow 1:
Average throughput: 57.48 Mbit/s
95th percentile per-packet one-way delay: 29.299 ms
Loss rate: 11.36%
-- Flow 2:
Average throughput: 44.67 Mbit/s
95th percentile per-packet one-way delay: 33.739 ms
Loss rate: 14.21%
-- Flow 3:
Average throughput: 5.24 Mbit/s
95th percentile per-packet one-way delay: 31.727 ms
Loss rate: 19.20%
```

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

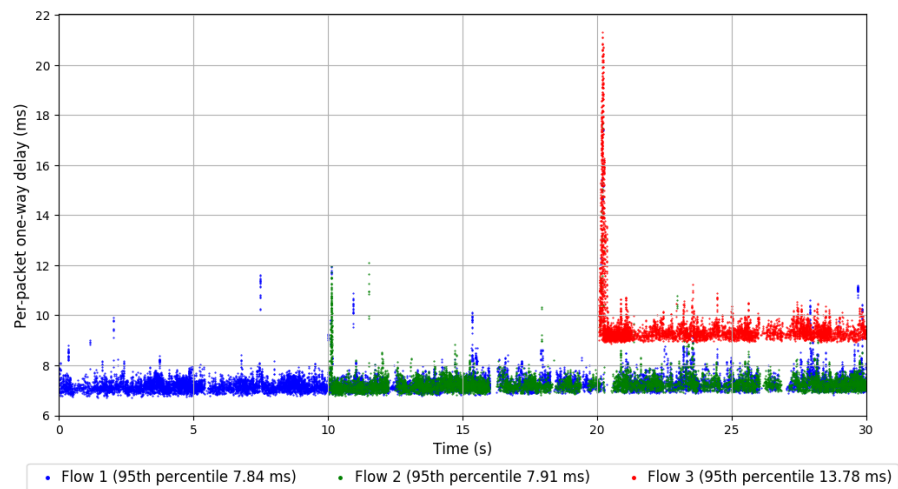
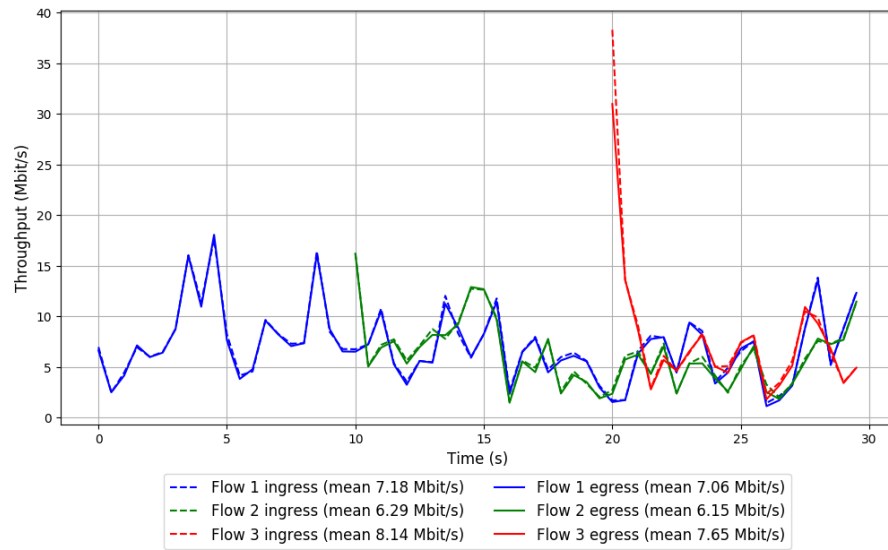


Run 1: Statistics of TCP Vegas

Start at: 2018-04-17 16:46:31
End at: 2018-04-17 16:47:01
Local clock offset: -5.316 ms
Remote clock offset: -10.886 ms

Below is generated by plot.py at 2018-04-17 20:35:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 13.68 Mbit/s
95th percentile per-packet one-way delay: 9.628 ms
Loss rate: 2.76%
-- Flow 1:
Average throughput: 7.06 Mbit/s
95th percentile per-packet one-way delay: 7.843 ms
Loss rate: 1.77%
-- Flow 2:
Average throughput: 6.15 Mbit/s
95th percentile per-packet one-way delay: 7.912 ms
Loss rate: 2.31%
-- Flow 3:
Average throughput: 7.65 Mbit/s
95th percentile per-packet one-way delay: 13.782 ms
Loss rate: 6.08%

Run 1: Report of TCP Vegas — Data Link

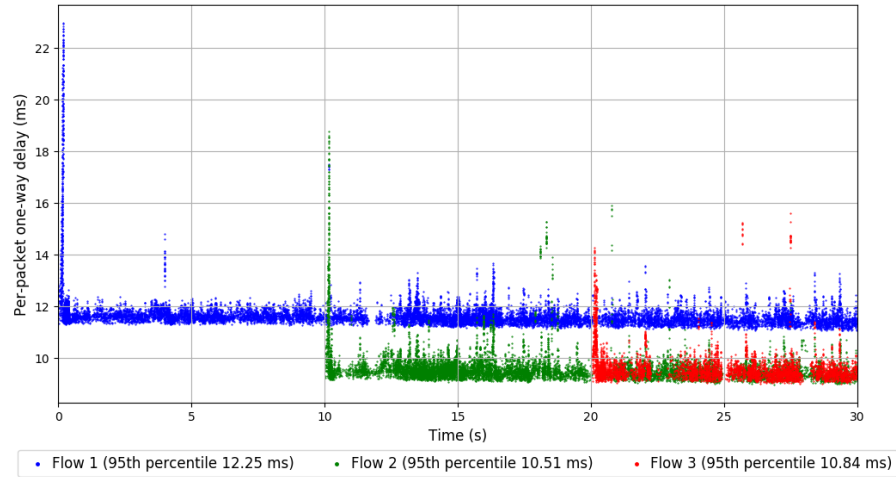
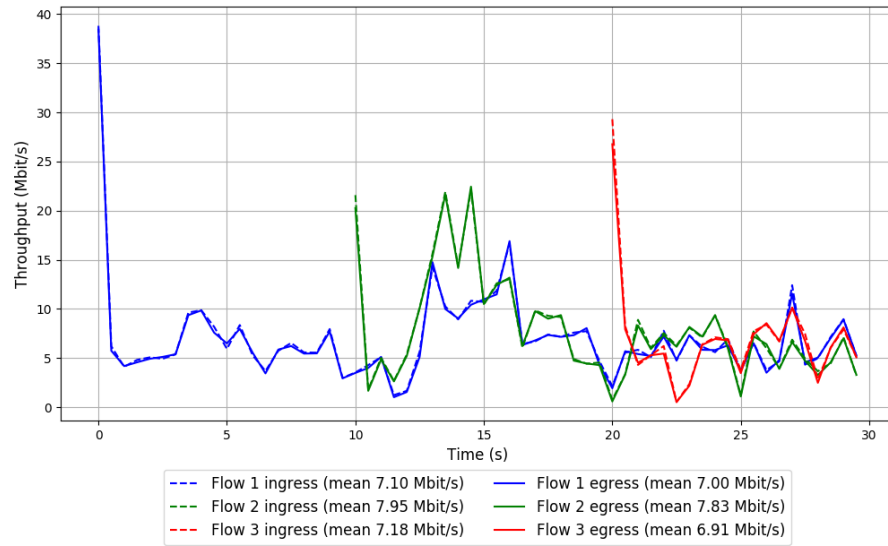


Run 2: Statistics of TCP Vegas

Start at: 2018-04-17 17:06:27
End at: 2018-04-17 17:06:57
Local clock offset: -4.942 ms
Remote clock offset: -11.245 ms

Below is generated by plot.py at 2018-04-17 20:35:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 14.51 Mbit/s
95th percentile per-packet one-way delay: 12.050 ms
Loss rate: 1.86%
-- Flow 1:
Average throughput: 7.00 Mbit/s
95th percentile per-packet one-way delay: 12.248 ms
Loss rate: 1.48%
-- Flow 2:
Average throughput: 7.83 Mbit/s
95th percentile per-packet one-way delay: 10.514 ms
Loss rate: 1.54%
-- Flow 3:
Average throughput: 6.91 Mbit/s
95th percentile per-packet one-way delay: 10.836 ms
Loss rate: 3.70%

Run 2: Report of TCP Vegas — Data Link

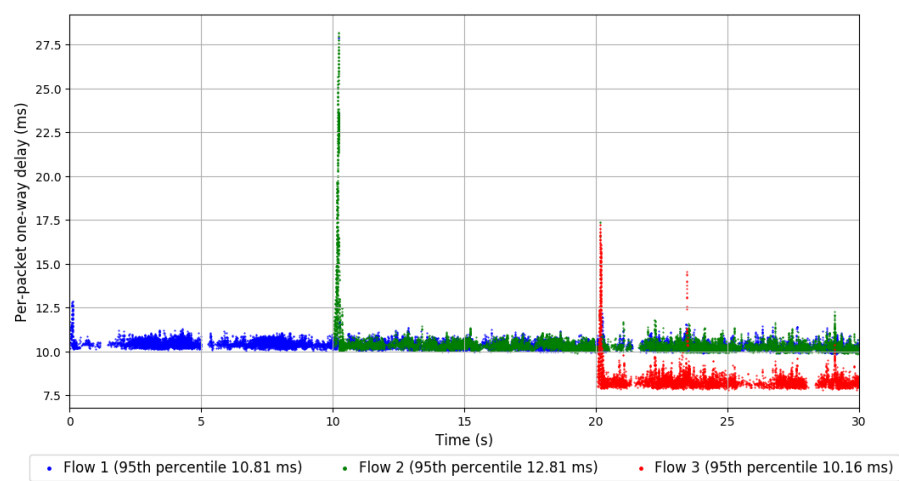
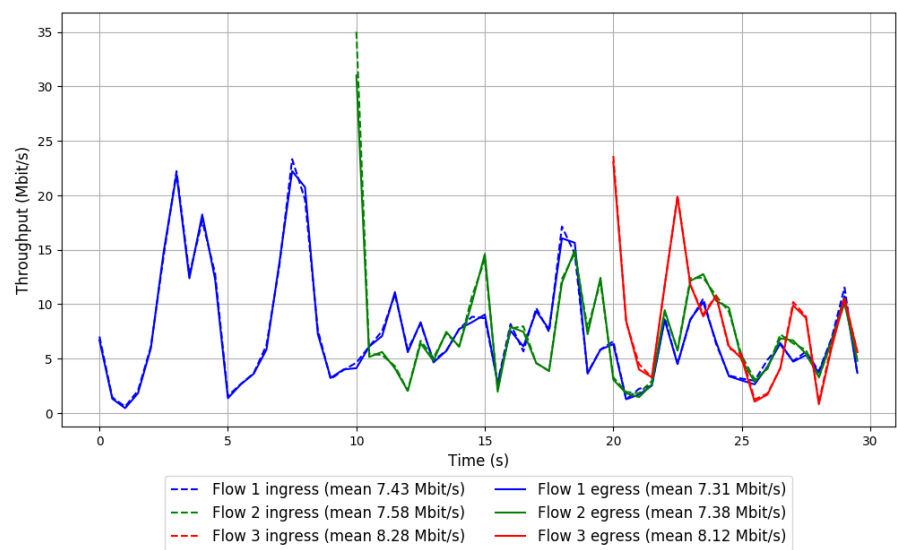


Run 3: Statistics of TCP Vegas

Start at: 2018-04-17 17:26:30
End at: 2018-04-17 17:27:00
Local clock offset: -5.485 ms
Remote clock offset: -5.067 ms

Below is generated by plot.py at 2018-04-17 20:35:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 14.92 Mbit/s
95th percentile per-packet one-way delay: 10.917 ms
Loss rate: 1.95%
-- Flow 1:
Average throughput: 7.31 Mbit/s
95th percentile per-packet one-way delay: 10.810 ms
Loss rate: 1.55%
-- Flow 2:
Average throughput: 7.38 Mbit/s
95th percentile per-packet one-way delay: 12.810 ms
Loss rate: 2.60%
-- Flow 3:
Average throughput: 8.12 Mbit/s
95th percentile per-packet one-way delay: 10.164 ms
Loss rate: 1.83%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

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

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

Local clock offset: -8.53 ms

Remote clock offset: -5.5 ms

Below is generated by plot.py at 2018-04-17 20:35:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 16.84 Mbit/s

95th percentile per-packet one-way delay: 8.601 ms

Loss rate: 1.55%

-- Flow 1:

Average throughput: 9.00 Mbit/s

95th percentile per-packet one-way delay: 8.989 ms

Loss rate: 1.50%

-- Flow 2:

Average throughput: 8.20 Mbit/s

95th percentile per-packet one-way delay: 8.289 ms

Loss rate: 1.33%

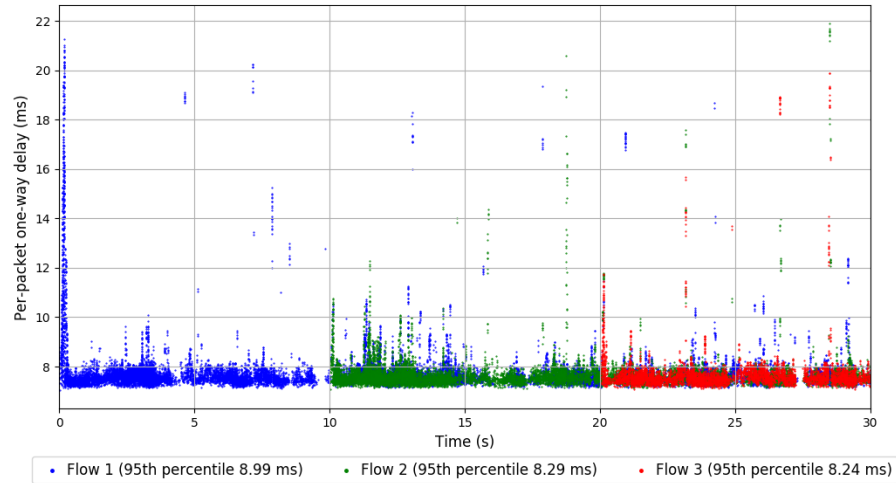
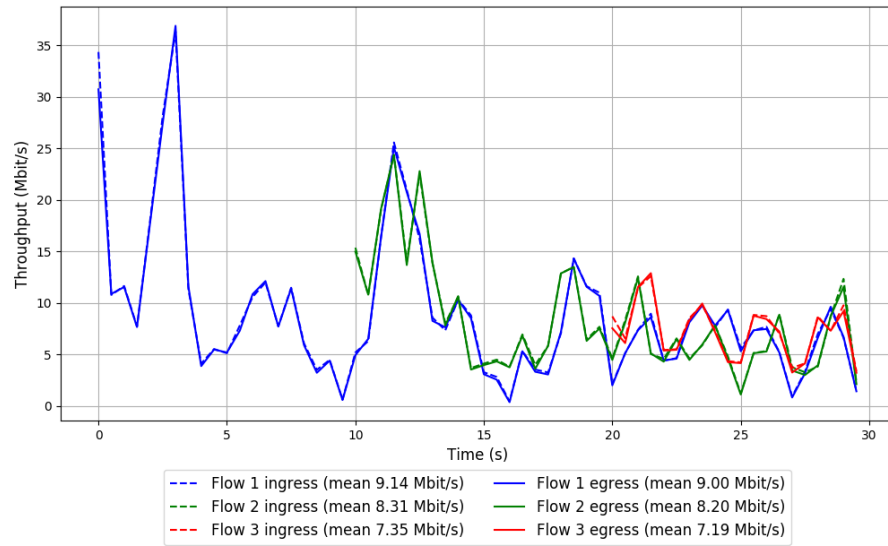
-- Flow 3:

Average throughput: 7.19 Mbit/s

95th percentile per-packet one-way delay: 8.237 ms

Loss rate: 2.19%

Run 4: Report of TCP Vegas — Data Link

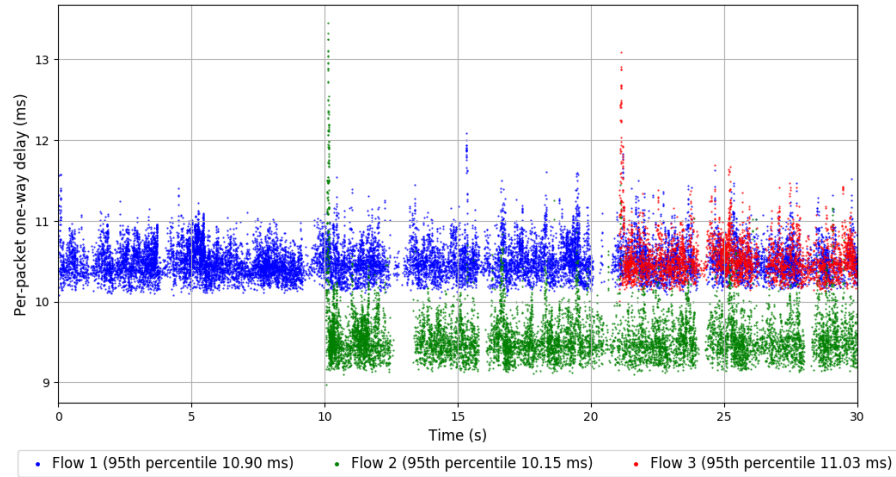
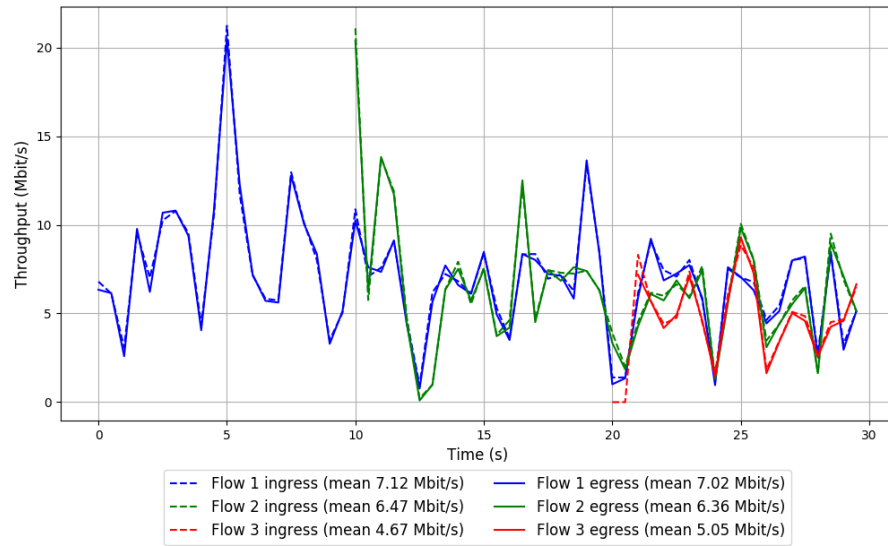


Run 5: Statistics of TCP Vegas

Start at: 2018-04-17 18:06:17
End at: 2018-04-17 18:06:47
Local clock offset: -7.231 ms
Remote clock offset: -4.692 ms

Below is generated by plot.py at 2018-04-17 20:35:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 12.76 Mbit/s
95th percentile per-packet one-way delay: 10.870 ms
Loss rate: 1.70%
-- Flow 1:
Average throughput: 7.02 Mbit/s
95th percentile per-packet one-way delay: 10.899 ms
Loss rate: 1.45%
-- Flow 2:
Average throughput: 6.36 Mbit/s
95th percentile per-packet one-way delay: 10.153 ms
Loss rate: 1.70%
-- Flow 3:
Average throughput: 5.05 Mbit/s
95th percentile per-packet one-way delay: 11.031 ms
Loss rate: 2.87%

Run 5: Report of TCP Vegas — Data Link

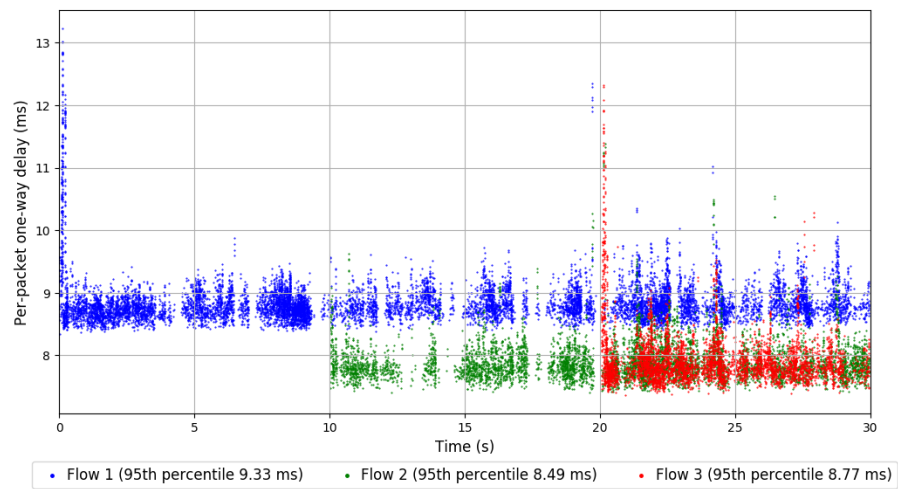
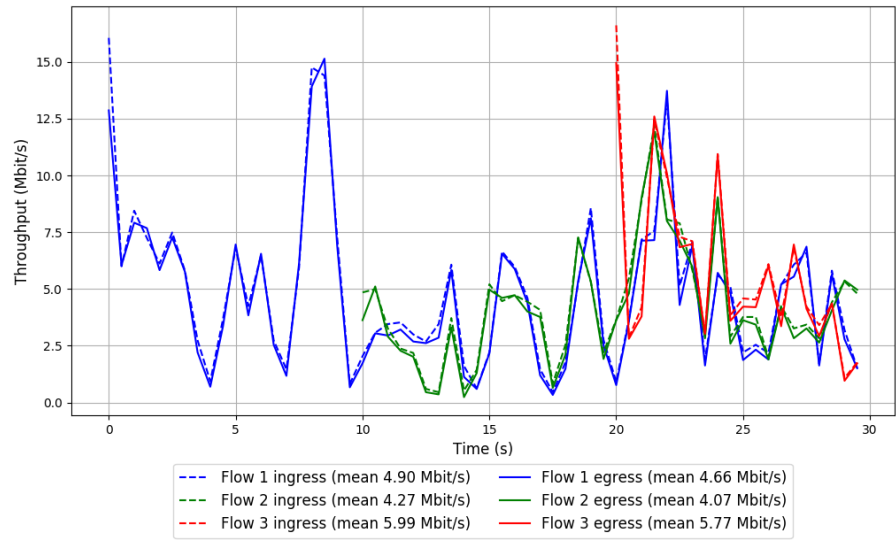


Run 6: Statistics of TCP Vegas

Start at: 2018-04-17 18:26:30
End at: 2018-04-17 18:27:00
Local clock offset: -4.769 ms
Remote clock offset: -5.529 ms

```
# Below is generated by plot.py at 2018-04-17 20:35:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 9.28 Mbit/s
95th percentile per-packet one-way delay: 9.187 ms
Loss rate: 4.56%
-- Flow 1:
Average throughput: 4.66 Mbit/s
95th percentile per-packet one-way delay: 9.326 ms
Loss rate: 4.77%
-- Flow 2:
Average throughput: 4.07 Mbit/s
95th percentile per-packet one-way delay: 8.493 ms
Loss rate: 4.80%
-- Flow 3:
Average throughput: 5.77 Mbit/s
95th percentile per-packet one-way delay: 8.767 ms
Loss rate: 3.70%
```

Run 6: Report of TCP Vegas — Data Link

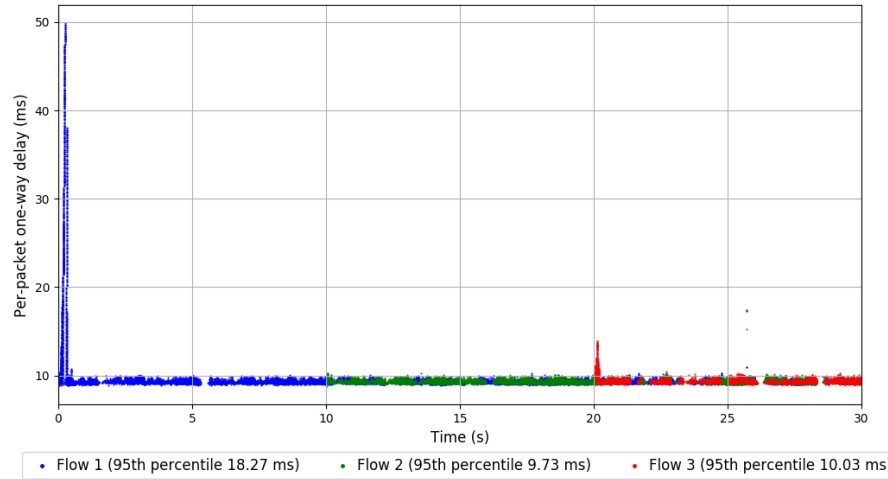
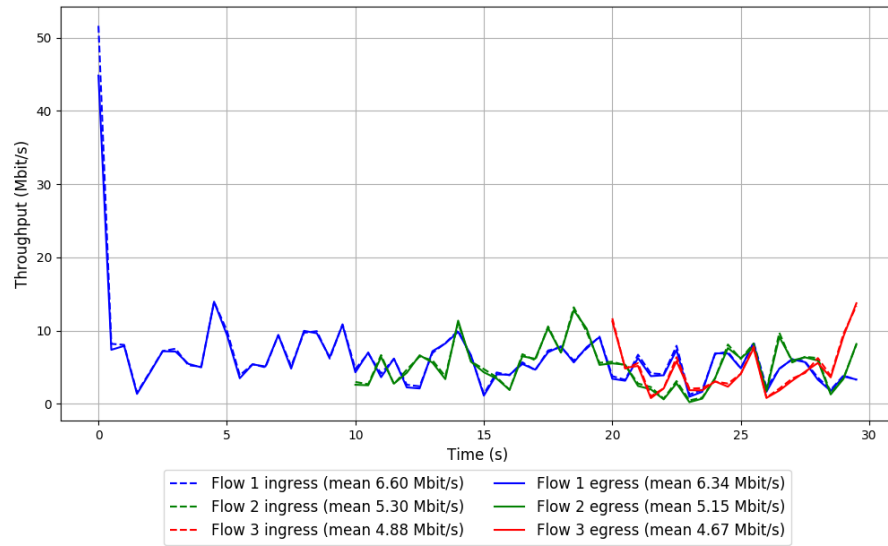


Run 7: Statistics of TCP Vegas

Start at: 2018-04-17 18:46:43
End at: 2018-04-17 18:47:13
Local clock offset: -3.041 ms
Remote clock offset: -4.823 ms

Below is generated by plot.py at 2018-04-17 20:35:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 11.32 Mbit/s
95th percentile per-packet one-way delay: 10.424 ms
Loss rate: 3.66%
-- Flow 1:
Average throughput: 6.34 Mbit/s
95th percentile per-packet one-way delay: 18.269 ms
Loss rate: 3.96%
-- Flow 2:
Average throughput: 5.15 Mbit/s
95th percentile per-packet one-way delay: 9.726 ms
Loss rate: 2.87%
-- Flow 3:
Average throughput: 4.67 Mbit/s
95th percentile per-packet one-way delay: 10.032 ms
Loss rate: 4.14%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-04-17 19:06:29

End at: 2018-04-17 19:06:59

Local clock offset: -4.887 ms

Remote clock offset: -1.1 ms

Below is generated by plot.py at 2018-04-17 20:35:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 13.31 Mbit/s

95th percentile per-packet one-way delay: 10.302 ms

Loss rate: 1.80%

-- Flow 1:

Average throughput: 7.03 Mbit/s

95th percentile per-packet one-way delay: 10.215 ms

Loss rate: 1.75%

-- Flow 2:

Average throughput: 5.65 Mbit/s

95th percentile per-packet one-way delay: 10.160 ms

Loss rate: 1.98%

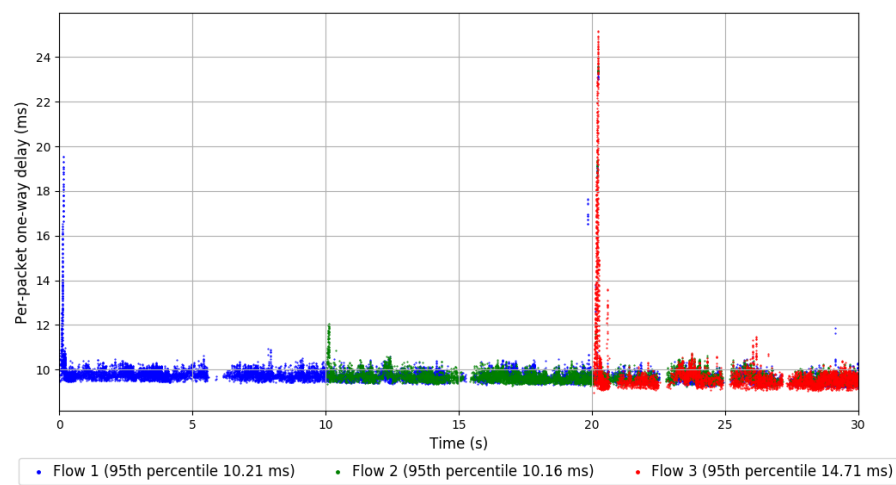
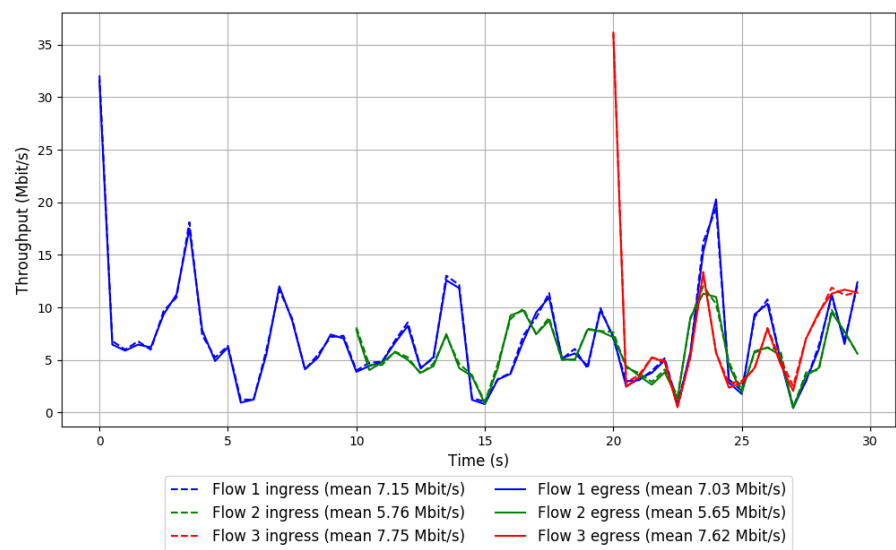
-- Flow 3:

Average throughput: 7.62 Mbit/s

95th percentile per-packet one-way delay: 14.708 ms

Loss rate: 1.65%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-04-17 19:26:29

End at: 2018-04-17 19:26:59

Local clock offset: -8.934 ms

Remote clock offset: 0.896 ms

Below is generated by plot.py at 2018-04-17 20:35:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 10.94 Mbit/s

95th percentile per-packet one-way delay: 11.262 ms

Loss rate: 2.94%

-- Flow 1:

Average throughput: 5.88 Mbit/s

95th percentile per-packet one-way delay: 11.057 ms

Loss rate: 2.72%

-- Flow 2:

Average throughput: 4.68 Mbit/s

95th percentile per-packet one-way delay: 11.349 ms

Loss rate: 3.66%

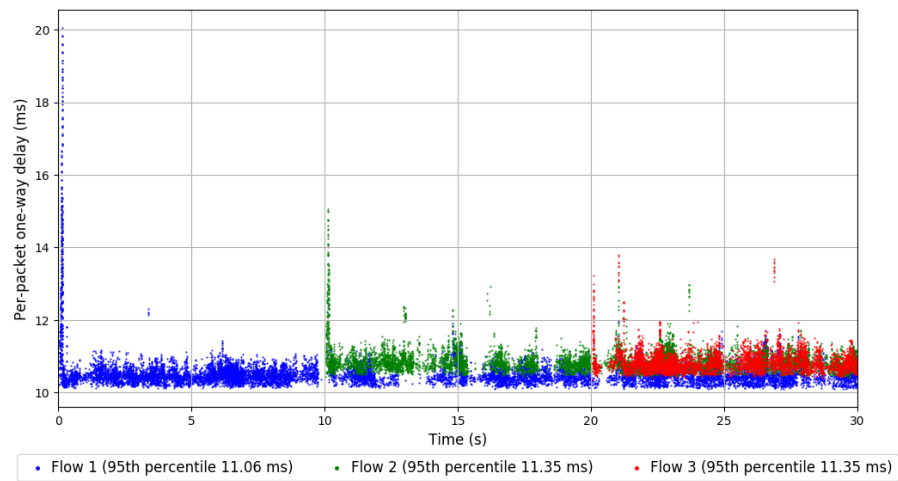
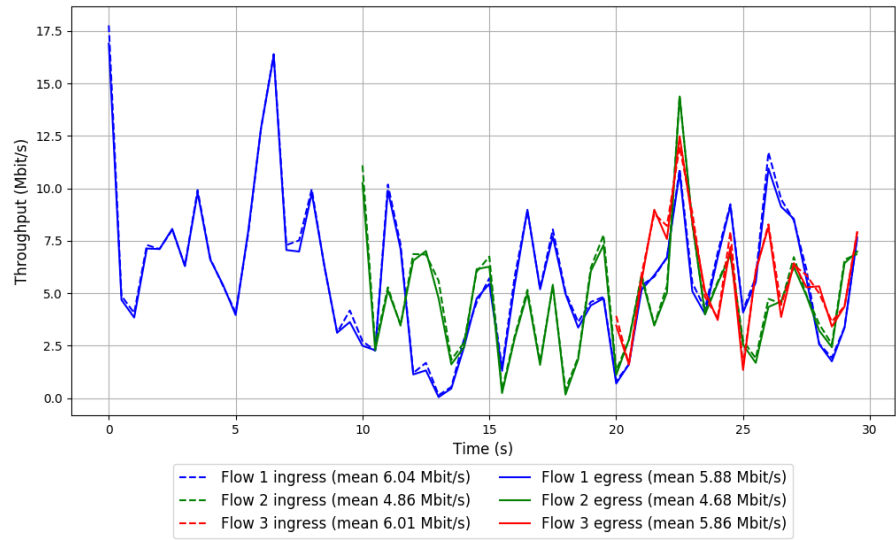
-- Flow 3:

Average throughput: 5.86 Mbit/s

95th percentile per-packet one-way delay: 11.346 ms

Loss rate: 2.46%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-04-17 19:46:43

End at: 2018-04-17 19:47:13

Local clock offset: -7.651 ms

Remote clock offset: 1.699 ms

Below is generated by plot.py at 2018-04-17 20:35:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 16.12 Mbit/s

95th percentile per-packet one-way delay: 22.292 ms

Loss rate: 1.17%

-- Flow 1:

Average throughput: 8.71 Mbit/s

95th percentile per-packet one-way delay: 22.720 ms

Loss rate: 1.13%

-- Flow 2:

Average throughput: 7.72 Mbit/s

95th percentile per-packet one-way delay: 10.671 ms

Loss rate: 1.02%

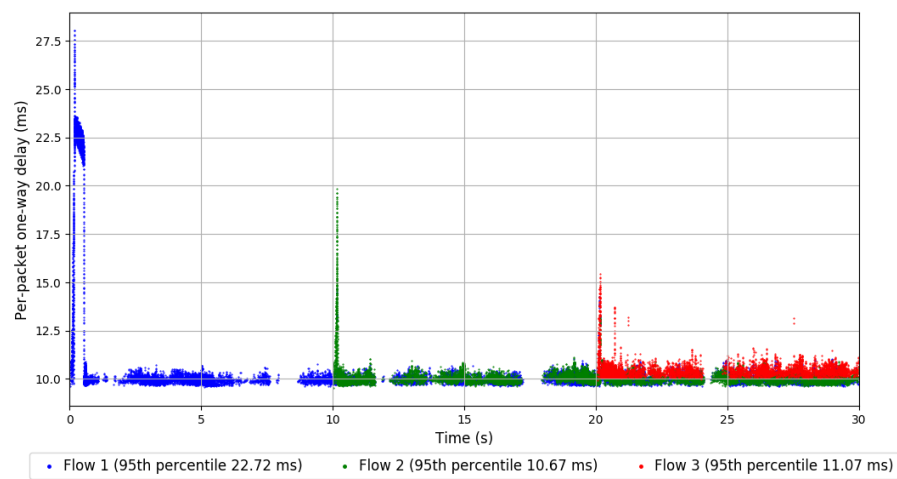
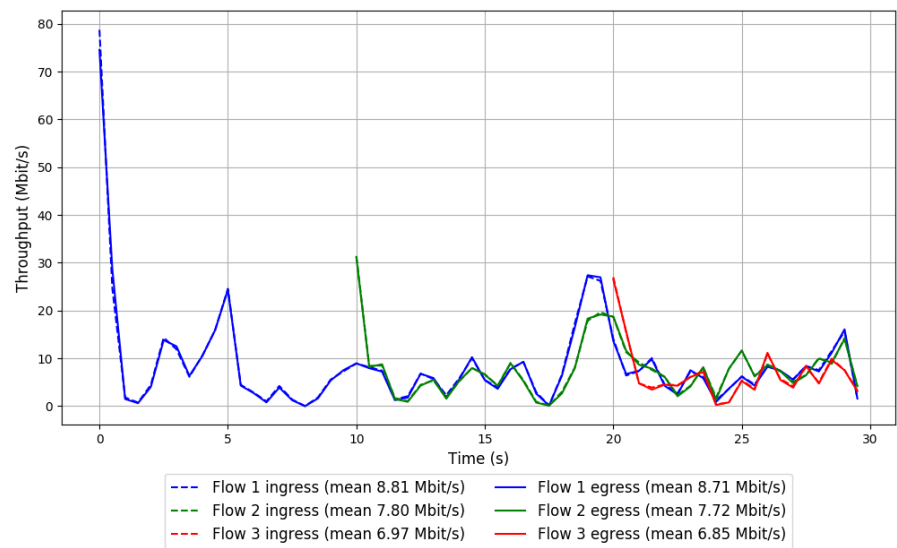
-- Flow 3:

Average throughput: 6.85 Mbit/s

95th percentile per-packet one-way delay: 11.068 ms

Loss rate: 1.70%

Run 10: Report of TCP Vegas — Data Link

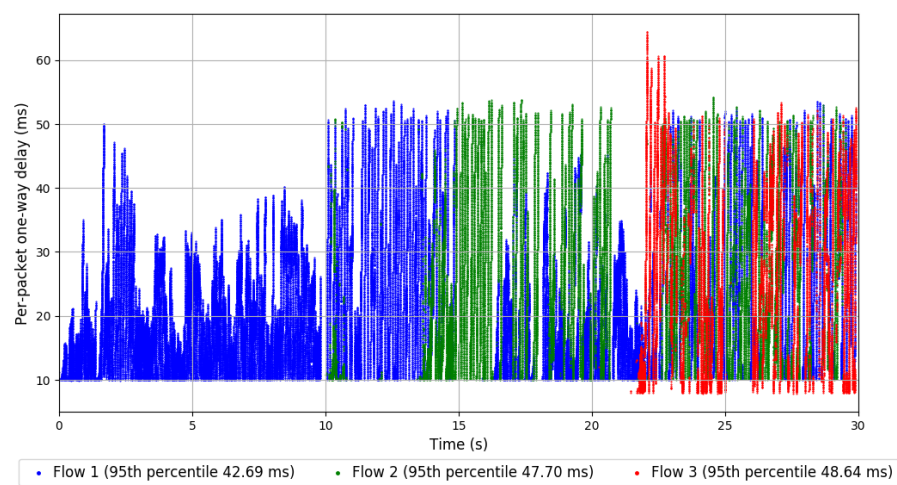
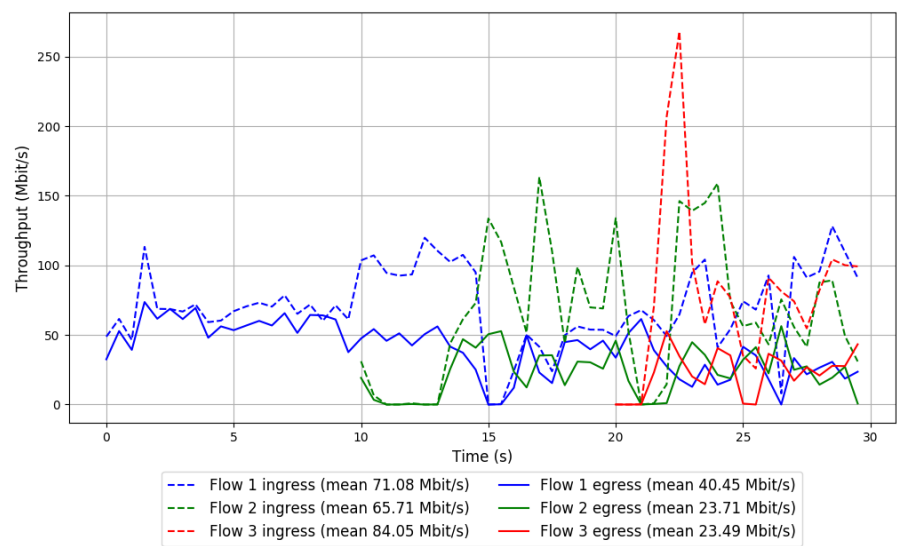


Run 1: Statistics of Verus

Start at: 2018-04-17 16:41:07
End at: 2018-04-17 16:41:37
Local clock offset: -6.726 ms
Remote clock offset: -10.528 ms

Below is generated by plot.py at 2018-04-17 20:35:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 63.48 Mbit/s
95th percentile per-packet one-way delay: 45.542 ms
Loss rate: 55.23%
-- Flow 1:
Average throughput: 40.45 Mbit/s
95th percentile per-packet one-way delay: 42.694 ms
Loss rate: 43.10%
-- Flow 2:
Average throughput: 23.71 Mbit/s
95th percentile per-packet one-way delay: 47.699 ms
Loss rate: 64.57%
-- Flow 3:
Average throughput: 23.49 Mbit/s
95th percentile per-packet one-way delay: 48.637 ms
Loss rate: 71.99%

Run 1: Report of Verus — Data Link

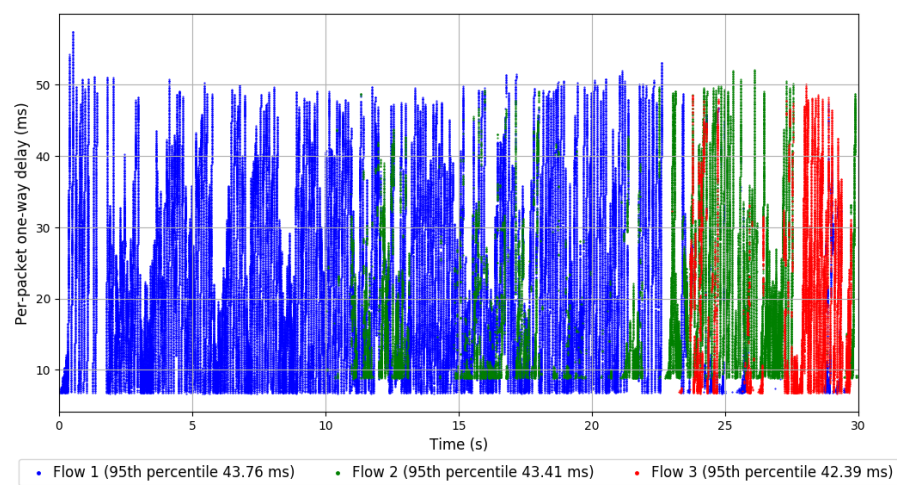
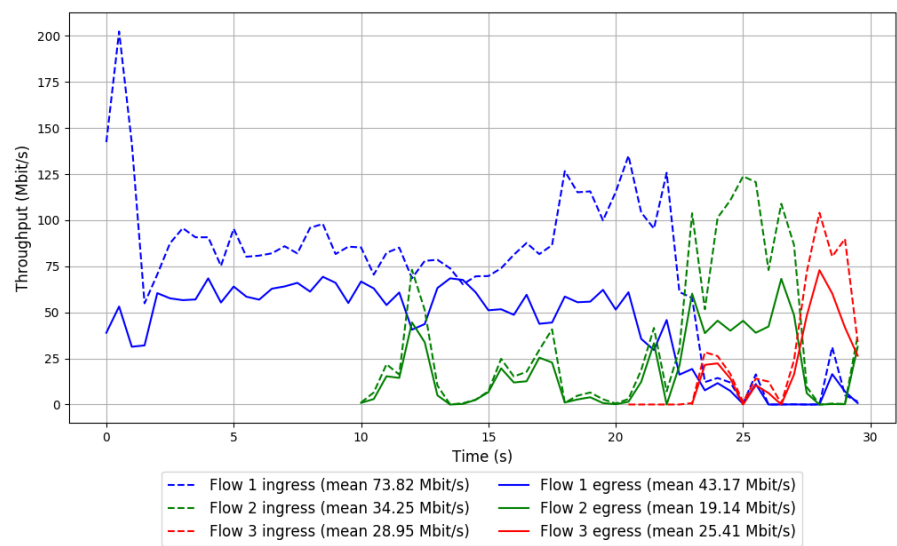


Run 2: Statistics of Verus

Start at: 2018-04-17 17:01:35
End at: 2018-04-17 17:02:05
Local clock offset: -2.609 ms
Remote clock offset: -11.294 ms

Below is generated by plot.py at 2018-04-17 20:35:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 61.49 Mbit/s
95th percentile per-packet one-way delay: 43.588 ms
Loss rate: 41.32%
-- Flow 1:
Average throughput: 43.17 Mbit/s
95th percentile per-packet one-way delay: 43.760 ms
Loss rate: 41.46%
-- Flow 2:
Average throughput: 19.14 Mbit/s
95th percentile per-packet one-way delay: 43.406 ms
Loss rate: 44.15%
-- Flow 3:
Average throughput: 25.41 Mbit/s
95th percentile per-packet one-way delay: 42.390 ms
Loss rate: 32.42%

Run 2: Report of Verus — Data Link

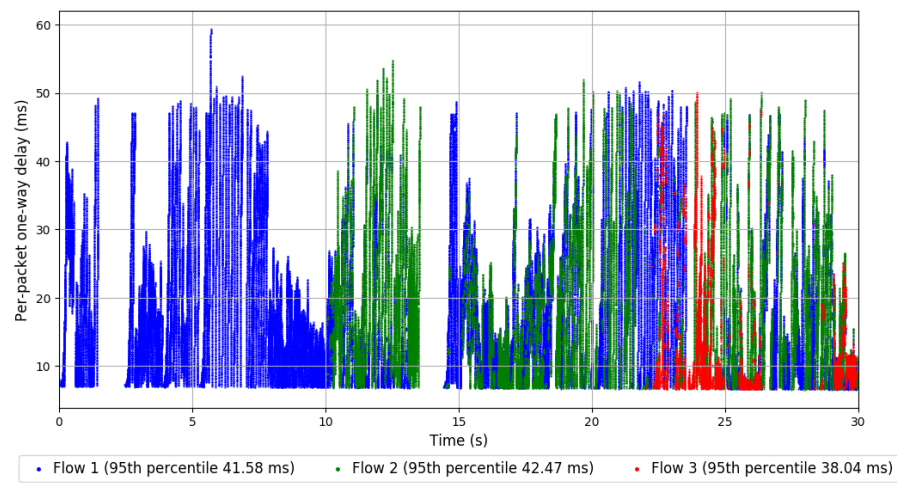
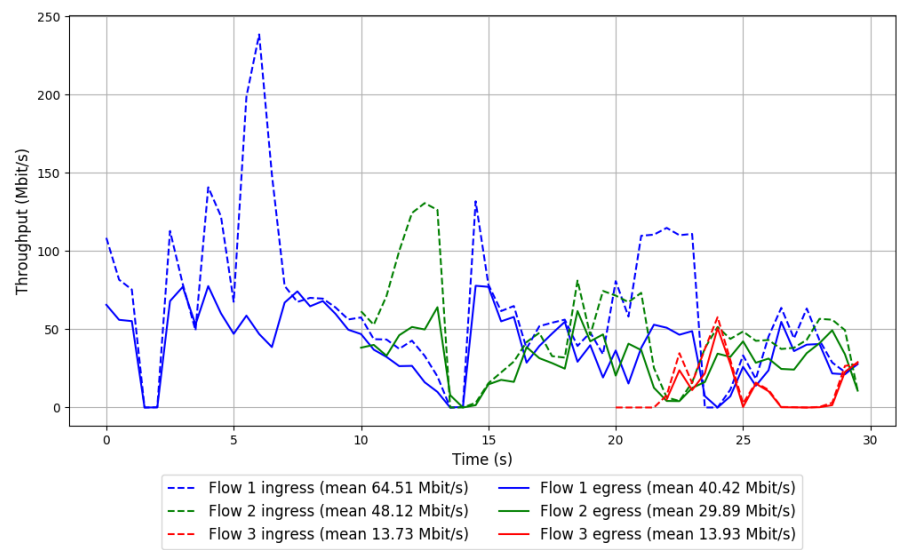


Run 3: Statistics of Verus

Start at: 2018-04-17 17:21:45
End at: 2018-04-17 17:22:15
Local clock offset: -2.647 ms
Remote clock offset: -6.474 ms

Below is generated by plot.py at 2018-04-17 20:35:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 63.99 Mbit/s
95th percentile per-packet one-way delay: 41.717 ms
Loss rate: 36.69%
-- Flow 1:
Average throughput: 40.42 Mbit/s
95th percentile per-packet one-way delay: 41.580 ms
Loss rate: 37.34%
-- Flow 2:
Average throughput: 29.89 Mbit/s
95th percentile per-packet one-way delay: 42.474 ms
Loss rate: 37.89%
-- Flow 3:
Average throughput: 13.93 Mbit/s
95th percentile per-packet one-way delay: 38.040 ms
Loss rate: 18.99%

Run 3: Report of Verus — Data Link

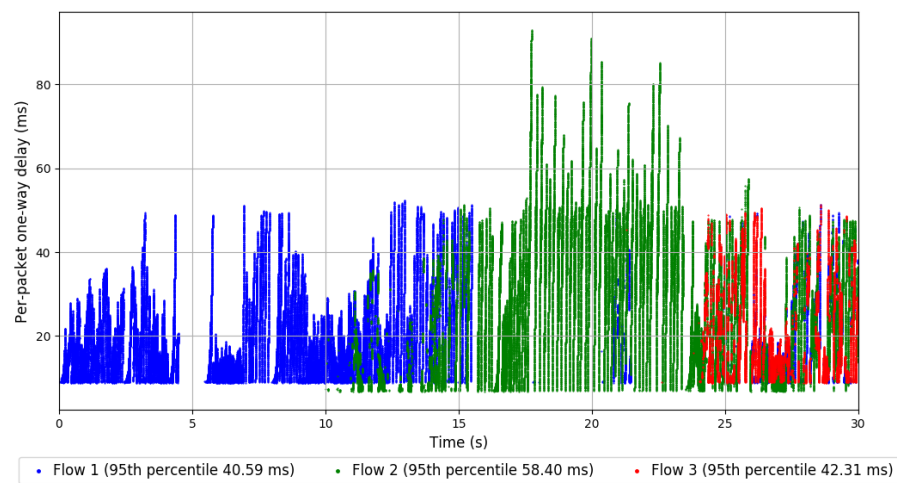
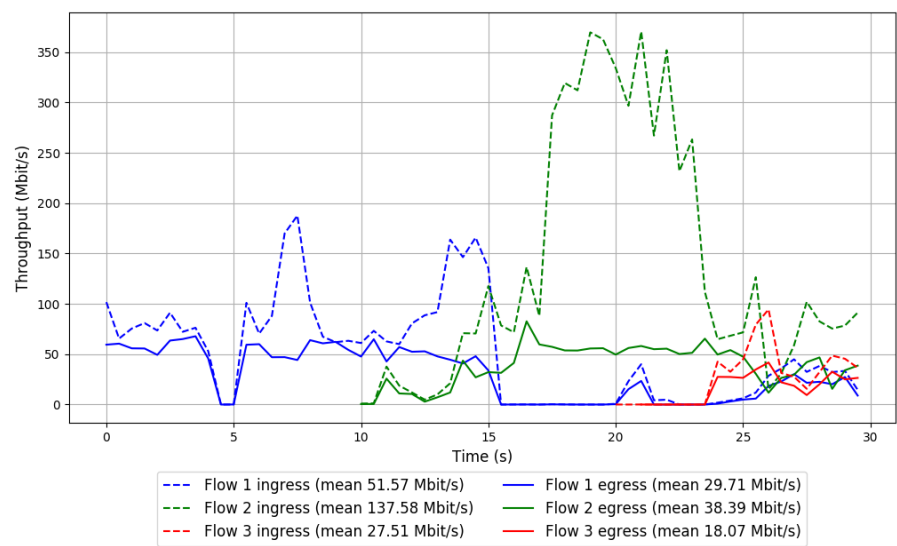


Run 4: Statistics of Verus

Start at: 2018-04-17 17:41:34
End at: 2018-04-17 17:42:04
Local clock offset: -8.336 ms
Remote clock offset: -5.276 ms

Below is generated by plot.py at 2018-04-17 20:35:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 60.48 Mbit/s
95th percentile per-packet one-way delay: 48.496 ms
Loss rate: 60.18%
-- Flow 1:
Average throughput: 29.71 Mbit/s
95th percentile per-packet one-way delay: 40.589 ms
Loss rate: 42.34%
-- Flow 2:
Average throughput: 38.39 Mbit/s
95th percentile per-packet one-way delay: 58.395 ms
Loss rate: 72.06%
-- Flow 3:
Average throughput: 18.07 Mbit/s
95th percentile per-packet one-way delay: 42.307 ms
Loss rate: 41.25%

Run 4: Report of Verus — Data Link

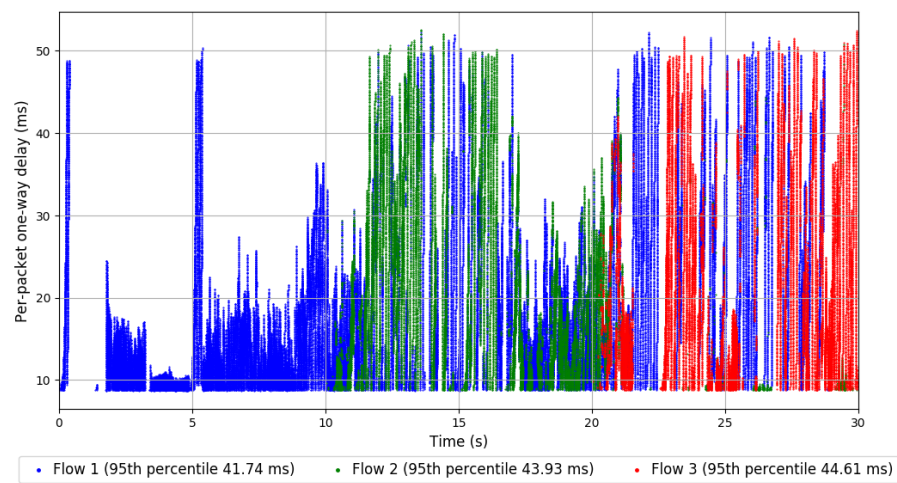
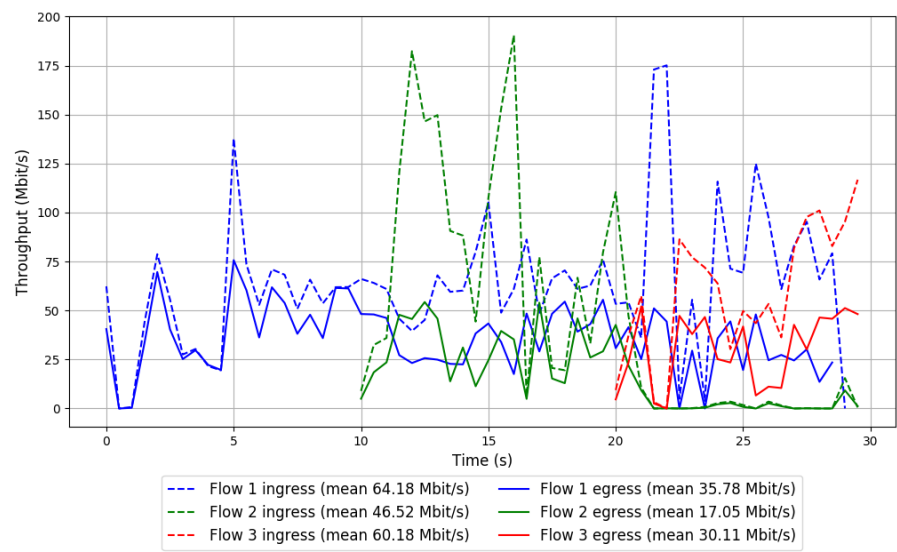


Run 5: Statistics of Verus

Start at: 2018-04-17 18:01:33
End at: 2018-04-17 18:02:03
Local clock offset: -7.651 ms
Remote clock offset: -5.719 ms

Below is generated by plot.py at 2018-04-17 20:35:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 55.87 Mbit/s
95th percentile per-packet one-way delay: 42.942 ms
Loss rate: 50.67%
-- Flow 1:
Average throughput: 35.78 Mbit/s
95th percentile per-packet one-way delay: 41.745 ms
Loss rate: 44.59%
-- Flow 2:
Average throughput: 17.05 Mbit/s
95th percentile per-packet one-way delay: 43.930 ms
Loss rate: 63.34%
-- Flow 3:
Average throughput: 30.11 Mbit/s
95th percentile per-packet one-way delay: 44.610 ms
Loss rate: 49.99%

Run 5: Report of Verus — Data Link

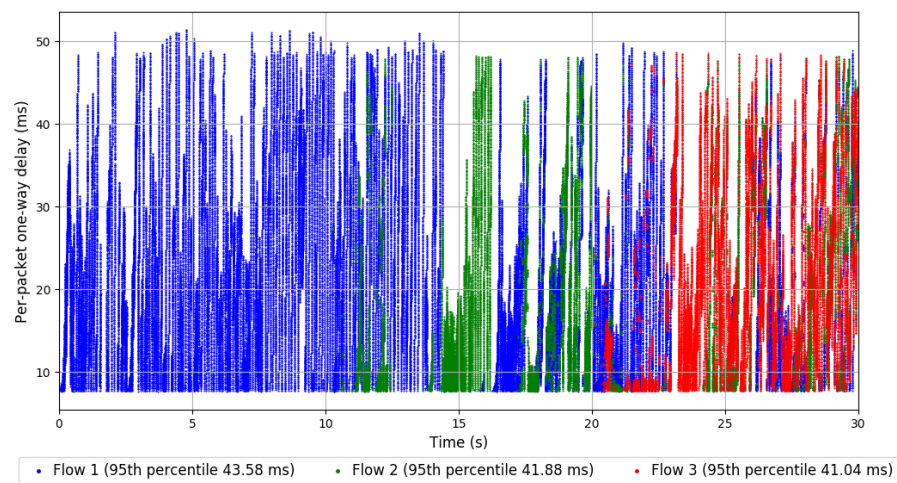
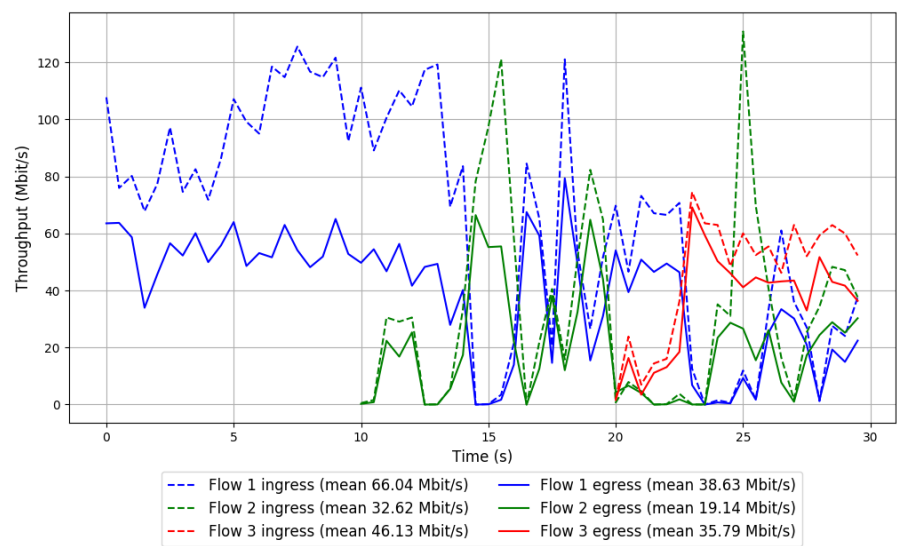


Run 6: Statistics of Verus

Start at: 2018-04-17 18:21:38
End at: 2018-04-17 18:22:08
Local clock offset: -4.316 ms
Remote clock offset: -5.491 ms

Below is generated by plot.py at 2018-04-17 20:35:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 63.19 Mbit/s
95th percentile per-packet one-way delay: 42.786 ms
Loss rate: 38.55%
-- Flow 1:
Average throughput: 38.63 Mbit/s
95th percentile per-packet one-way delay: 43.579 ms
Loss rate: 41.45%
-- Flow 2:
Average throughput: 19.14 Mbit/s
95th percentile per-packet one-way delay: 41.875 ms
Loss rate: 41.21%
-- Flow 3:
Average throughput: 35.79 Mbit/s
95th percentile per-packet one-way delay: 41.038 ms
Loss rate: 22.23%

Run 6: Report of Verus — Data Link

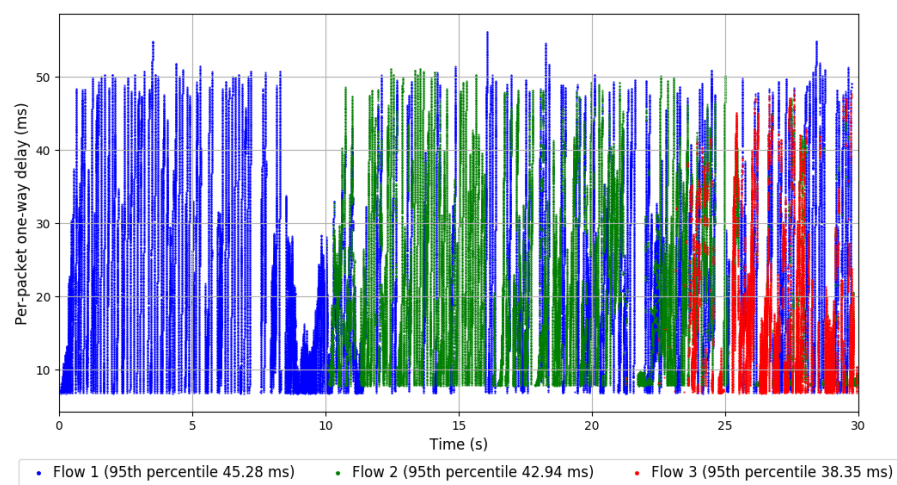
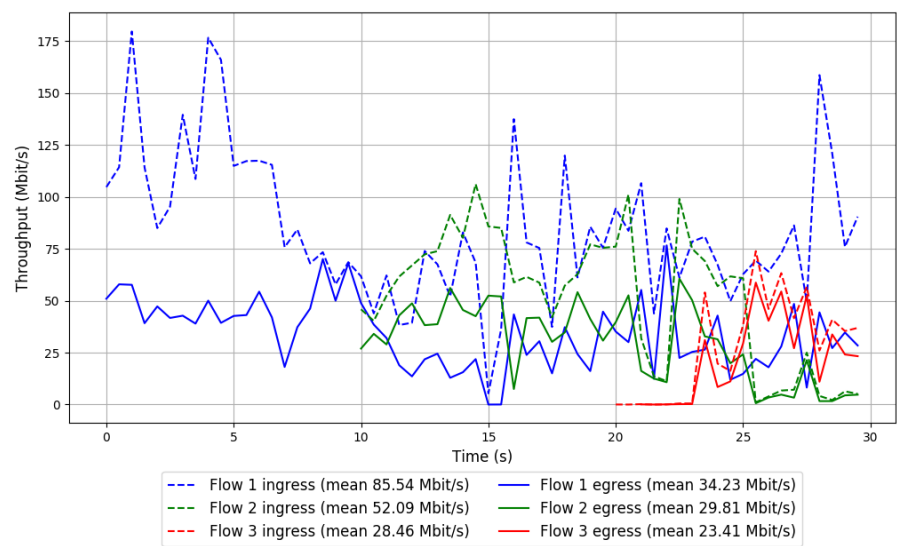


Run 7: Statistics of Verus

Start at: 2018-04-17 18:41:45
End at: 2018-04-17 18:42:15
Local clock offset: -2.74 ms
Remote clock offset: -5.375 ms

Below is generated by plot.py at 2018-04-17 20:36:19
Datalink statistics
-- Total of 3 flows:
Average throughput: 60.57 Mbit/s
95th percentile per-packet one-way delay: 44.124 ms
Loss rate: 52.94%
-- Flow 1:
Average throughput: 34.23 Mbit/s
95th percentile per-packet one-way delay: 45.276 ms
Loss rate: 59.97%
-- Flow 2:
Average throughput: 29.81 Mbit/s
95th percentile per-packet one-way delay: 42.942 ms
Loss rate: 42.81%
-- Flow 3:
Average throughput: 23.41 Mbit/s
95th percentile per-packet one-way delay: 38.346 ms
Loss rate: 26.23%

Run 7: Report of Verus — Data Link

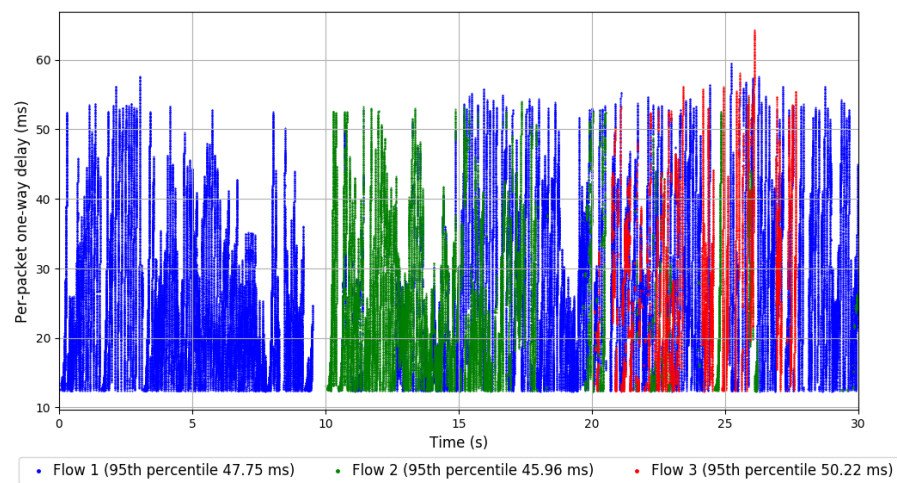
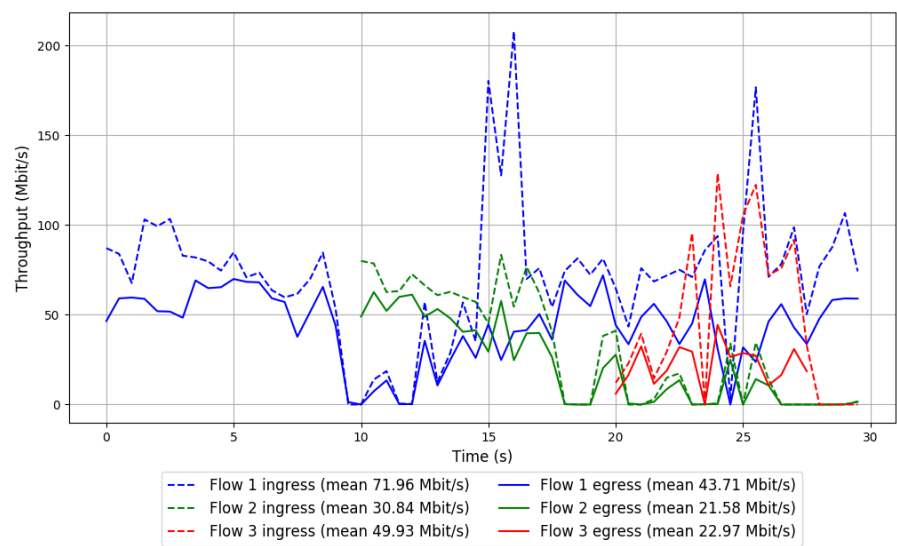


Run 8: Statistics of Verus

Start at: 2018-04-17 19:01:43
End at: 2018-04-17 19:02:13
Local clock offset: -5.021 ms
Remote clock offset: -0.934 ms

Below is generated by plot.py at 2018-04-17 20:36:19
Datalink statistics
-- Total of 3 flows:
Average throughput: 63.90 Mbit/s
95th percentile per-packet one-way delay: 47.628 ms
Loss rate: 41.04%
-- Flow 1:
Average throughput: 43.71 Mbit/s
95th percentile per-packet one-way delay: 47.748 ms
Loss rate: 39.21%
-- Flow 2:
Average throughput: 21.58 Mbit/s
95th percentile per-packet one-way delay: 45.963 ms
Loss rate: 29.98%
-- Flow 3:
Average throughput: 22.97 Mbit/s
95th percentile per-packet one-way delay: 50.219 ms
Loss rate: 63.44%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-04-17 19:21:44

End at: 2018-04-17 19:22:14

Local clock offset: -7.496 ms

Remote clock offset: 0.044 ms

Below is generated by plot.py at 2018-04-17 20:36:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 65.35 Mbit/s

95th percentile per-packet one-way delay: 41.975 ms

Loss rate: 45.46%

-- Flow 1:

Average throughput: 39.94 Mbit/s

95th percentile per-packet one-way delay: 42.869 ms

Loss rate: 47.38%

-- Flow 2:

Average throughput: 30.81 Mbit/s

95th percentile per-packet one-way delay: 40.351 ms

Loss rate: 45.47%

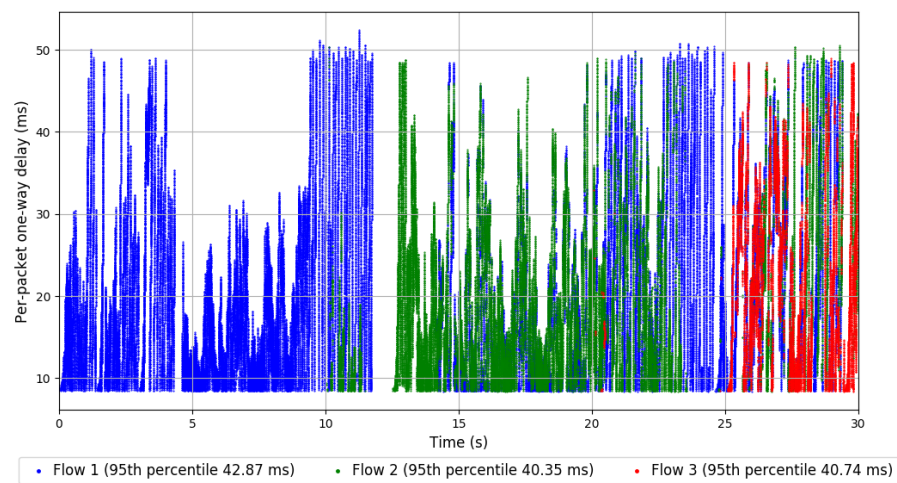
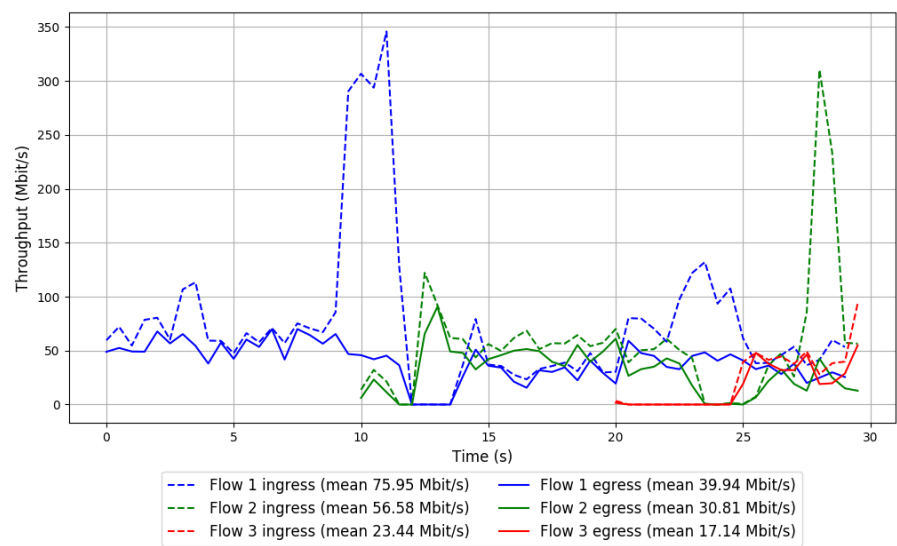
-- Flow 3:

Average throughput: 17.14 Mbit/s

95th percentile per-packet one-way delay: 40.744 ms

Loss rate: 26.83%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-04-17 19:41:48

End at: 2018-04-17 19:42:18

Local clock offset: -7.627 ms

Remote clock offset: 1.246 ms

Below is generated by plot.py at 2018-04-17 20:36:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 61.25 Mbit/s

95th percentile per-packet one-way delay: 42.891 ms

Loss rate: 44.46%

-- Flow 1:

Average throughput: 39.82 Mbit/s

95th percentile per-packet one-way delay: 39.481 ms

Loss rate: 36.18%

-- Flow 2:

Average throughput: 25.17 Mbit/s

95th percentile per-packet one-way delay: 45.881 ms

Loss rate: 58.57%

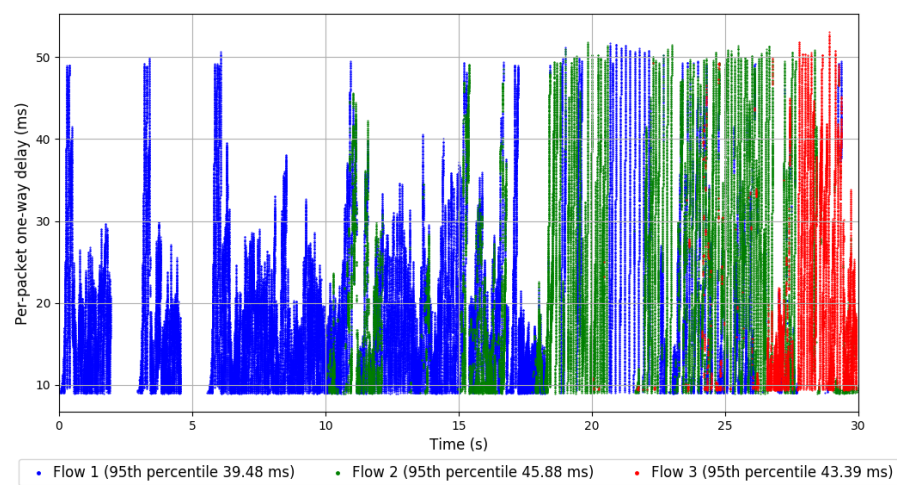
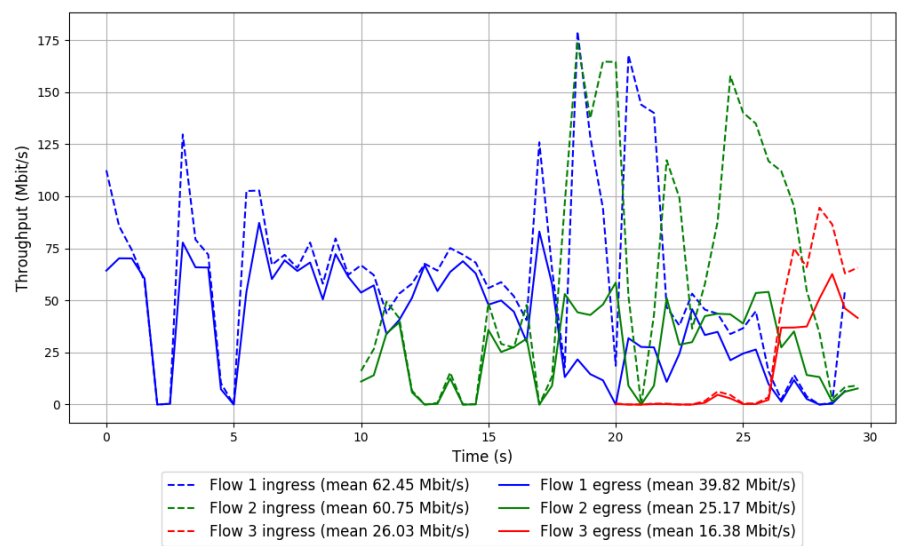
-- Flow 3:

Average throughput: 16.38 Mbit/s

95th percentile per-packet one-way delay: 43.392 ms

Loss rate: 37.06%

Run 10: Report of Verus — Data Link

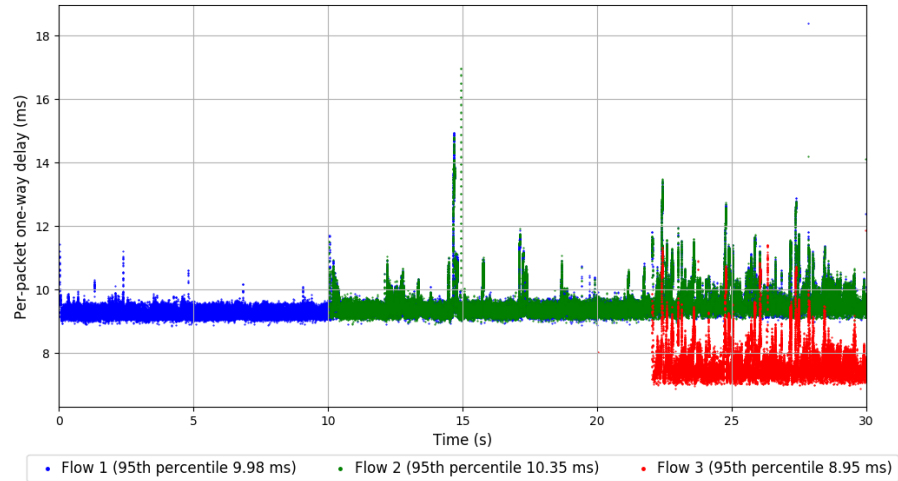
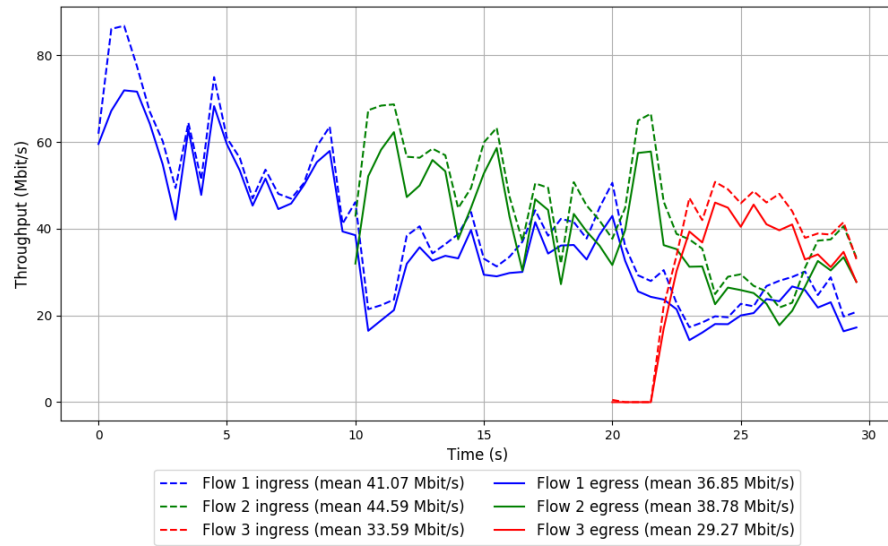


Run 1: Statistics of Copa

Start at: 2018-04-17 16:54:43
End at: 2018-04-17 16:55:13
Local clock offset: -3.721 ms
Remote clock offset: -10.997 ms

Below is generated by plot.py at 2018-04-17 20:37:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 72.40 Mbit/s
95th percentile per-packet one-way delay: 10.089 ms
Loss rate: 11.61%
-- Flow 1:
Average throughput: 36.85 Mbit/s
95th percentile per-packet one-way delay: 9.982 ms
Loss rate: 10.27%
-- Flow 2:
Average throughput: 38.78 Mbit/s
95th percentile per-packet one-way delay: 10.352 ms
Loss rate: 13.01%
-- Flow 3:
Average throughput: 29.27 Mbit/s
95th percentile per-packet one-way delay: 8.954 ms
Loss rate: 12.82%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-04-17 17:14:41

End at: 2018-04-17 17:15:11

Local clock offset: -4.419 ms

Remote clock offset: -7.15 ms

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 64.42 Mbit/s

95th percentile per-packet one-way delay: 12.920 ms

Loss rate: 15.13%

-- Flow 1:

Average throughput: 35.39 Mbit/s

95th percentile per-packet one-way delay: 12.842 ms

Loss rate: 14.15%

-- Flow 2:

Average throughput: 29.92 Mbit/s

95th percentile per-packet one-way delay: 13.179 ms

Loss rate: 15.36%

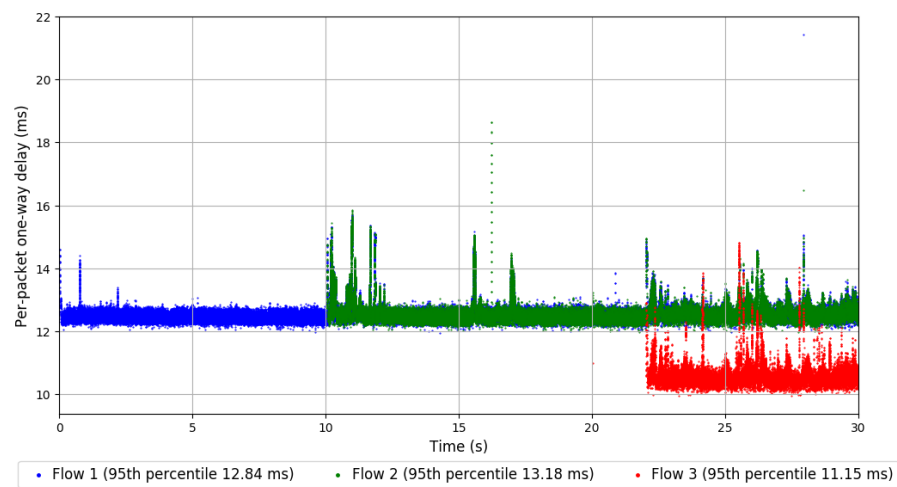
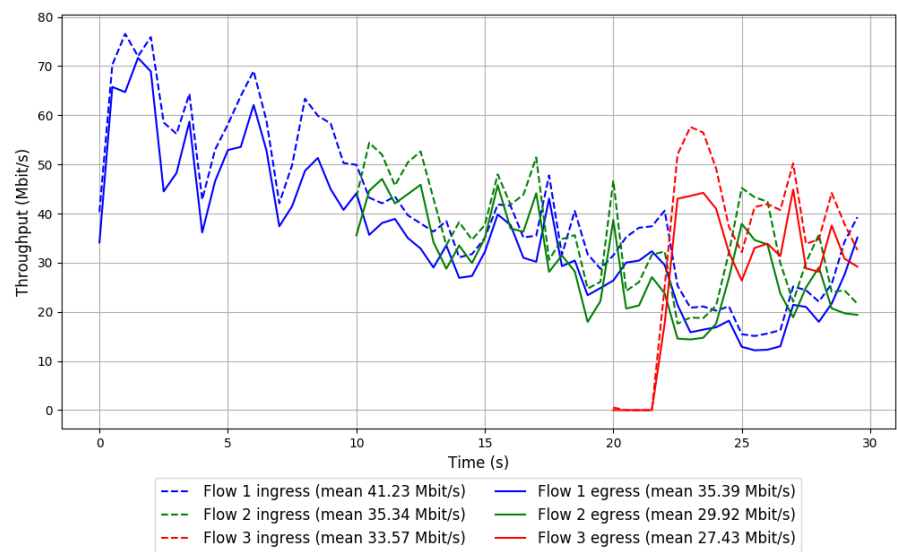
-- Flow 3:

Average throughput: 27.43 Mbit/s

95th percentile per-packet one-way delay: 11.148 ms

Loss rate: 18.30%

Run 2: Report of Copa — Data Link

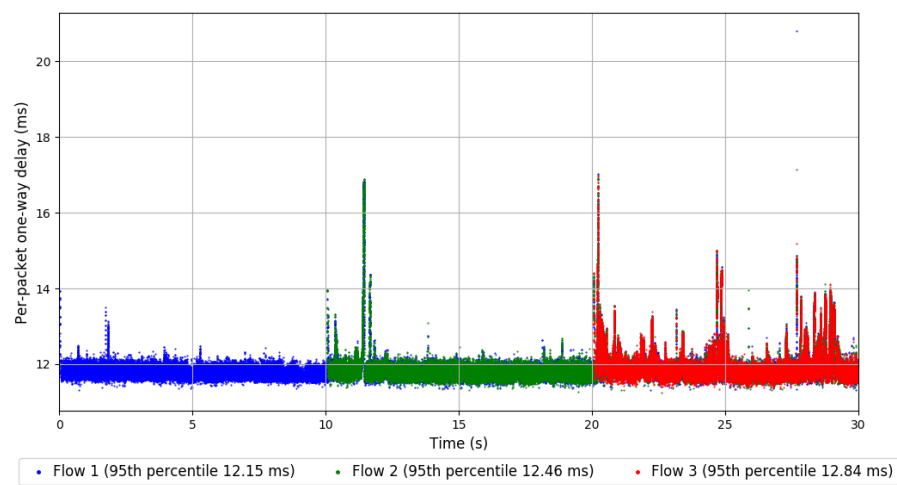
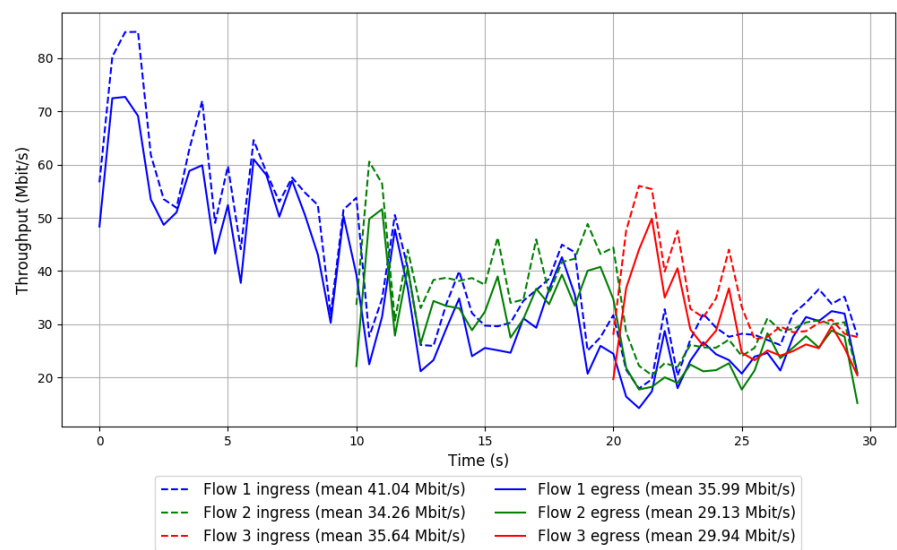


Run 3: Statistics of Copa

Start at: 2018-04-17 17:34:46
End at: 2018-04-17 17:35:16
Local clock offset: -10.183 ms
Remote clock offset: -5.394 ms

Below is generated by plot.py at 2018-04-17 20:37:41
Datalink statistics
-- Total of 3 flows:
Average throughput: 65.32 Mbit/s
95th percentile per-packet one-way delay: 12.379 ms
Loss rate: 13.69%
-- Flow 1:
Average throughput: 35.99 Mbit/s
95th percentile per-packet one-way delay: 12.146 ms
Loss rate: 12.29%
-- Flow 2:
Average throughput: 29.13 Mbit/s
95th percentile per-packet one-way delay: 12.458 ms
Loss rate: 14.99%
-- Flow 3:
Average throughput: 29.94 Mbit/s
95th percentile per-packet one-way delay: 12.844 ms
Loss rate: 16.01%

Run 3: Report of Copa — Data Link

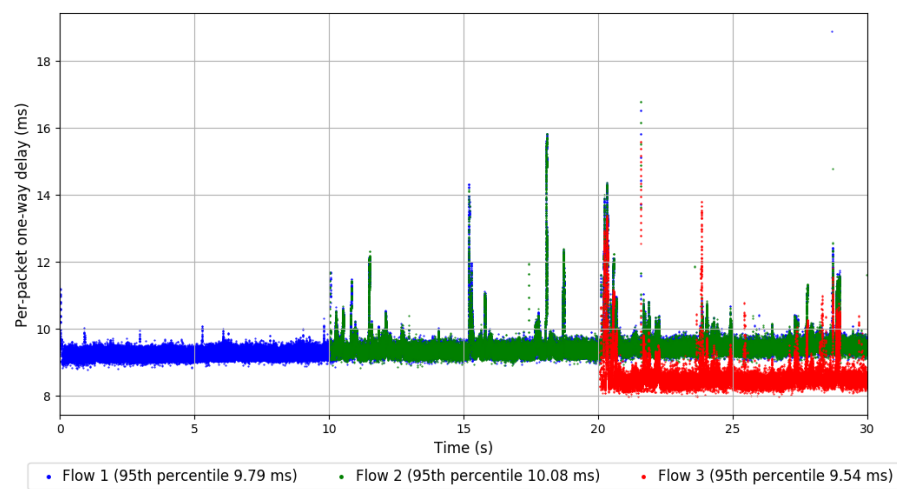
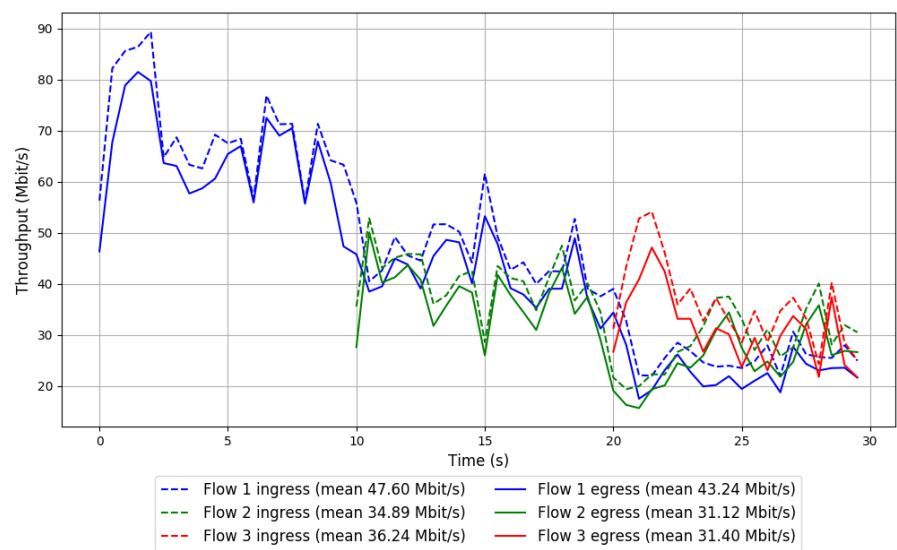


Run 4: Statistics of Copa

Start at: 2018-04-17 17:54:39
End at: 2018-04-17 17:55:09
Local clock offset: -9.26 ms
Remote clock offset: -4.985 ms

```
# Below is generated by plot.py at 2018-04-17 20:38:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 74.38 Mbit/s
95th percentile per-packet one-way delay: 9.860 ms
Loss rate: 10.24%
-- Flow 1:
Average throughput: 43.24 Mbit/s
95th percentile per-packet one-way delay: 9.791 ms
Loss rate: 9.16%
-- Flow 2:
Average throughput: 31.12 Mbit/s
95th percentile per-packet one-way delay: 10.080 ms
Loss rate: 10.81%
-- Flow 3:
Average throughput: 31.40 Mbit/s
95th percentile per-packet one-way delay: 9.538 ms
Loss rate: 13.40%
```

Run 4: Report of Copa — Data Link

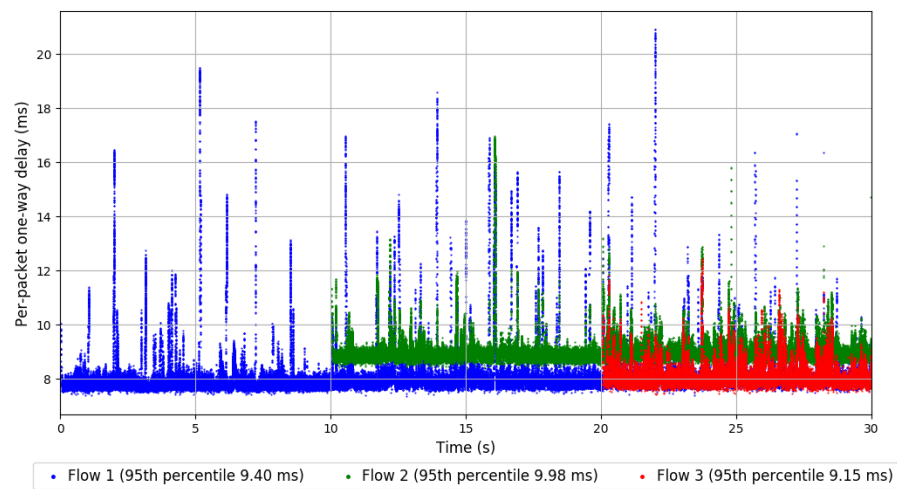
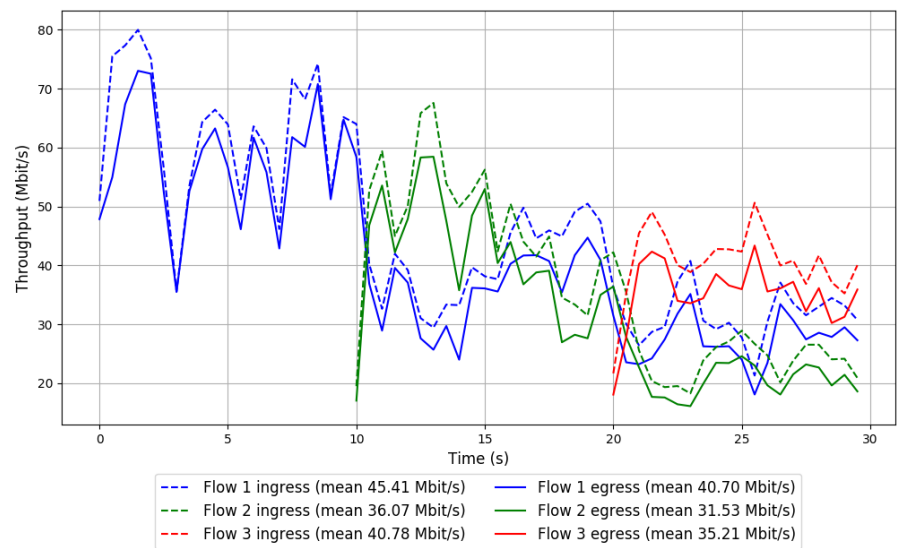


Run 5: Statistics of Copa

Start at: 2018-04-17 18:14:44
End at: 2018-04-17 18:15:14
Local clock offset: -5.646 ms
Remote clock offset: -5.314 ms

Below is generated by plot.py at 2018-04-17 20:38:24
Datalink statistics
-- Total of 3 flows:
Average throughput: 73.37 Mbit/s
95th percentile per-packet one-way delay: 9.673 ms
Loss rate: 11.54%
-- Flow 1:
Average throughput: 40.70 Mbit/s
95th percentile per-packet one-way delay: 9.401 ms
Loss rate: 10.37%
-- Flow 2:
Average throughput: 31.53 Mbit/s
95th percentile per-packet one-way delay: 9.979 ms
Loss rate: 12.56%
-- Flow 3:
Average throughput: 35.21 Mbit/s
95th percentile per-packet one-way delay: 9.146 ms
Loss rate: 13.66%

Run 5: Report of Copa — Data Link

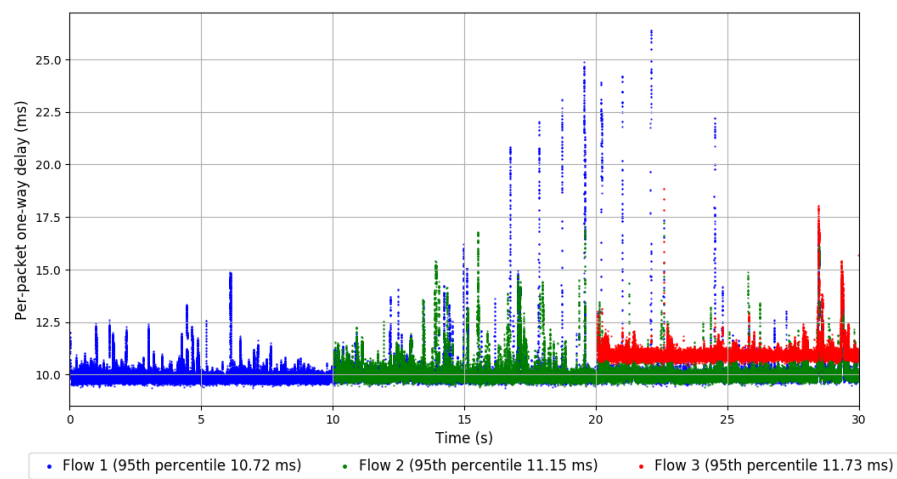
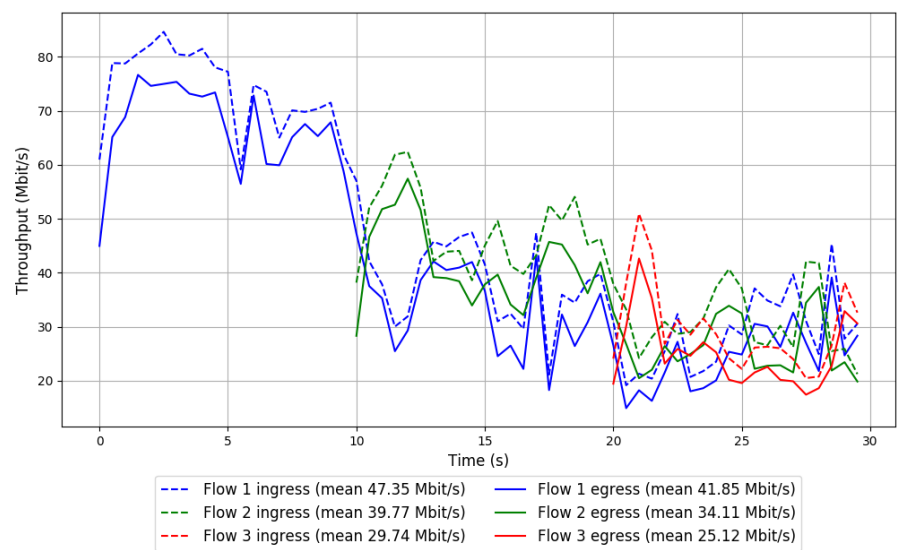


Run 6: Statistics of Copa

Start at: 2018-04-17 18:34:44
End at: 2018-04-17 18:35:14
Local clock offset: -5.856 ms
Remote clock offset: -5.252 ms

Below is generated by plot.py at 2018-04-17 20:38:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 72.90 Mbit/s
95th percentile per-packet one-way delay: 11.223 ms
Loss rate: 12.91%
-- Flow 1:
Average throughput: 41.85 Mbit/s
95th percentile per-packet one-way delay: 10.716 ms
Loss rate: 11.63%
-- Flow 2:
Average throughput: 34.11 Mbit/s
95th percentile per-packet one-way delay: 11.152 ms
Loss rate: 14.24%
-- Flow 3:
Average throughput: 25.12 Mbit/s
95th percentile per-packet one-way delay: 11.733 ms
Loss rate: 15.50%

Run 6: Report of Copa — Data Link

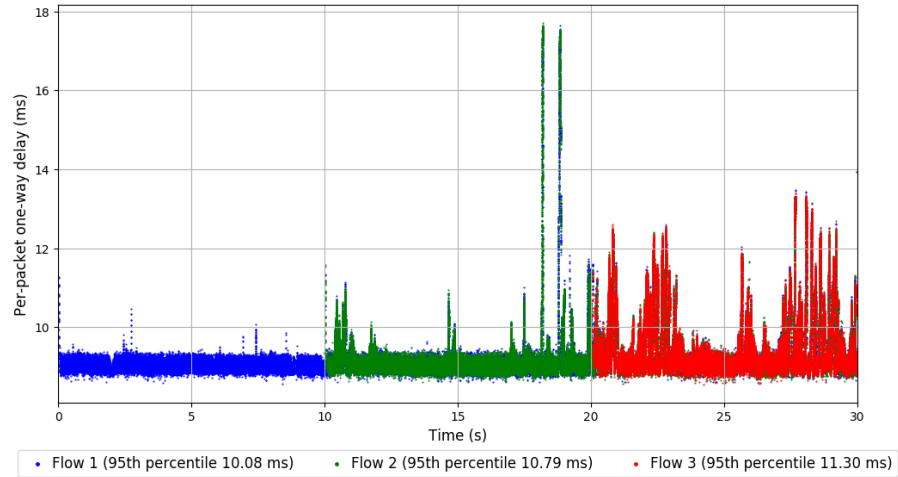
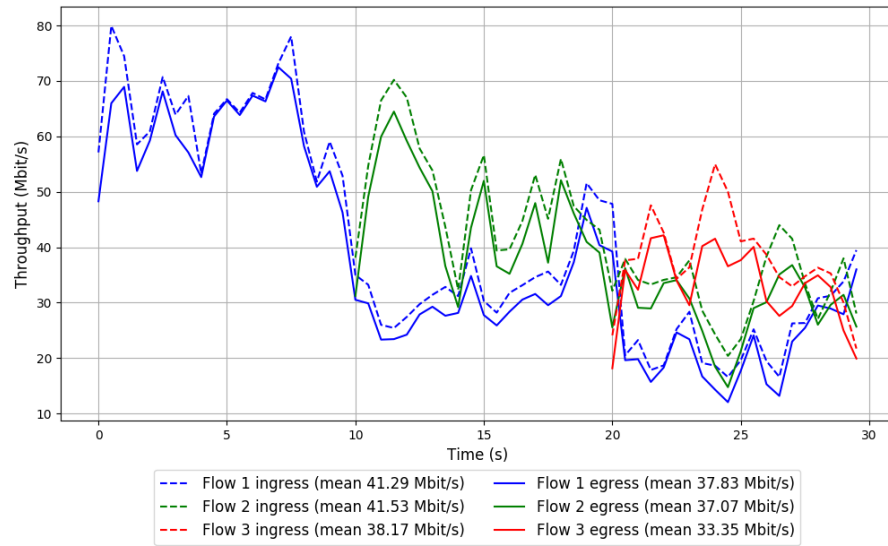


Run 7: Statistics of Copa

Start at: 2018-04-17 18:54:53
End at: 2018-04-17 18:55:23
Local clock offset: -2.151 ms
Remote clock offset: -2.627 ms

Below is generated by plot.py at 2018-04-17 20:38:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 73.58 Mbit/s
95th percentile per-packet one-way delay: 10.656 ms
Loss rate: 9.84%
-- Flow 1:
Average throughput: 37.83 Mbit/s
95th percentile per-packet one-way delay: 10.084 ms
Loss rate: 8.38%
-- Flow 2:
Average throughput: 37.07 Mbit/s
95th percentile per-packet one-way delay: 10.792 ms
Loss rate: 10.75%
-- Flow 3:
Average throughput: 33.35 Mbit/s
95th percentile per-packet one-way delay: 11.296 ms
Loss rate: 12.65%

Run 7: Report of Copa — Data Link

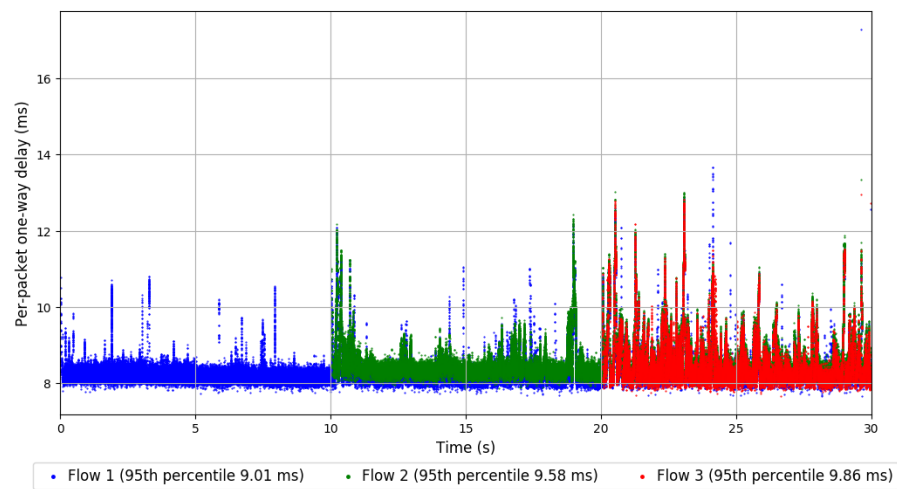
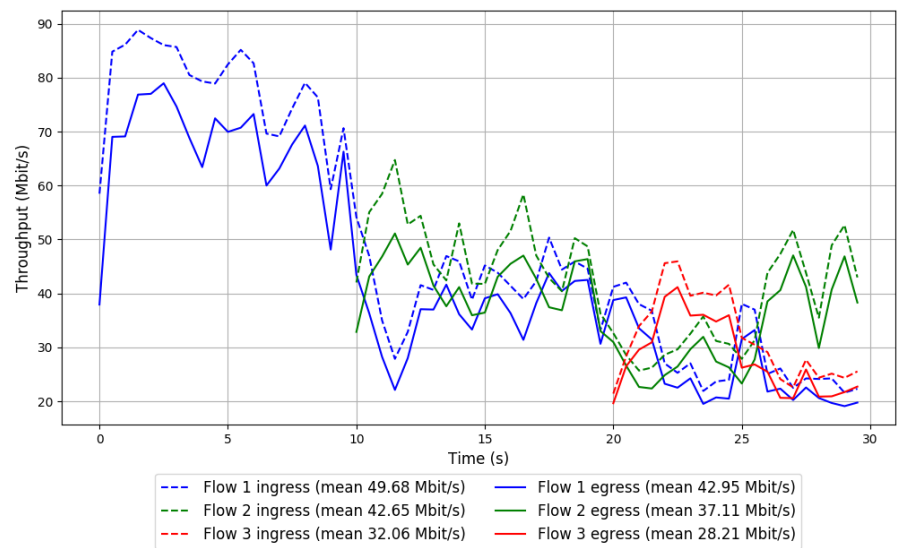


Run 8: Statistics of Copa

Start at: 2018-04-17 19:14:53
End at: 2018-04-17 19:15:23
Local clock offset: -5.756 ms
Remote clock offset: -0.027 ms

Below is generated by plot.py at 2018-04-17 20:38:34
Datalink statistics
-- Total of 3 flows:
Average throughput: 77.04 Mbit/s
95th percentile per-packet one-way delay: 9.366 ms
Loss rate: 13.17%
-- Flow 1:
Average throughput: 42.95 Mbit/s
95th percentile per-packet one-way delay: 9.014 ms
Loss rate: 13.54%
-- Flow 2:
Average throughput: 37.11 Mbit/s
95th percentile per-packet one-way delay: 9.578 ms
Loss rate: 12.98%
-- Flow 3:
Average throughput: 28.21 Mbit/s
95th percentile per-packet one-way delay: 9.856 ms
Loss rate: 11.95%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-04-17 19:34:44

End at: 2018-04-17 19:35:14

Local clock offset: -8.758 ms

Remote clock offset: 0.611 ms

Below is generated by plot.py at 2018-04-17 20:39:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 65.45 Mbit/s

95th percentile per-packet one-way delay: 10.124 ms

Loss rate: 12.67%

-- Flow 1:

Average throughput: 33.63 Mbit/s

95th percentile per-packet one-way delay: 10.008 ms

Loss rate: 10.84%

-- Flow 2:

Average throughput: 33.80 Mbit/s

95th percentile per-packet one-way delay: 10.227 ms

Loss rate: 13.81%

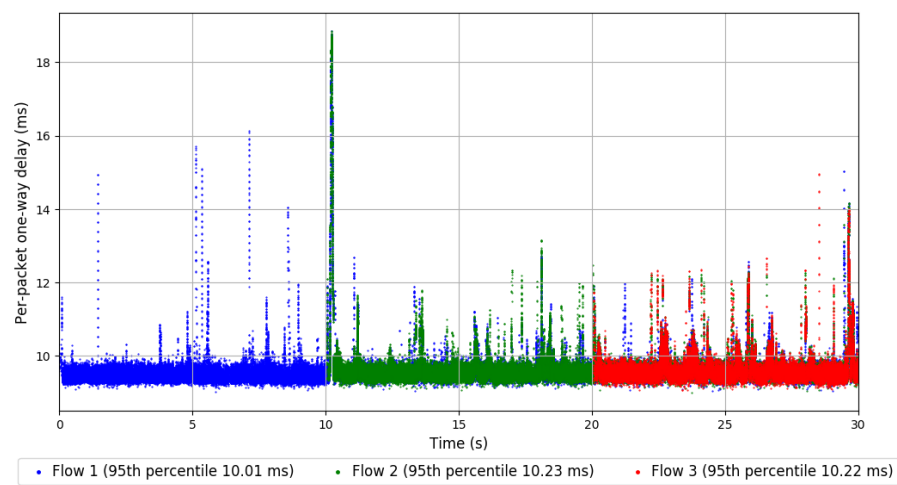
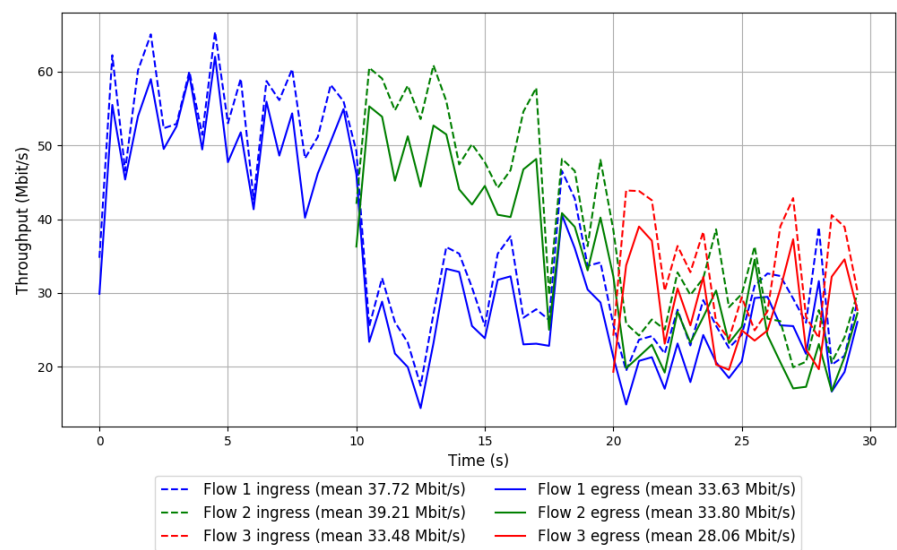
-- Flow 3:

Average throughput: 28.06 Mbit/s

95th percentile per-packet one-way delay: 10.219 ms

Loss rate: 16.20%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-04-17 19:54:53

End at: 2018-04-17 19:55:23

Local clock offset: -6.662 ms

Remote clock offset: 1.744 ms

Below is generated by plot.py at 2018-04-17 20:39:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 76.35 Mbit/s

95th percentile per-packet one-way delay: 10.154 ms

Loss rate: 10.97%

-- Flow 1:

Average throughput: 41.13 Mbit/s

95th percentile per-packet one-way delay: 9.760 ms

Loss rate: 9.57%

-- Flow 2:

Average throughput: 37.38 Mbit/s

95th percentile per-packet one-way delay: 10.523 ms

Loss rate: 12.23%

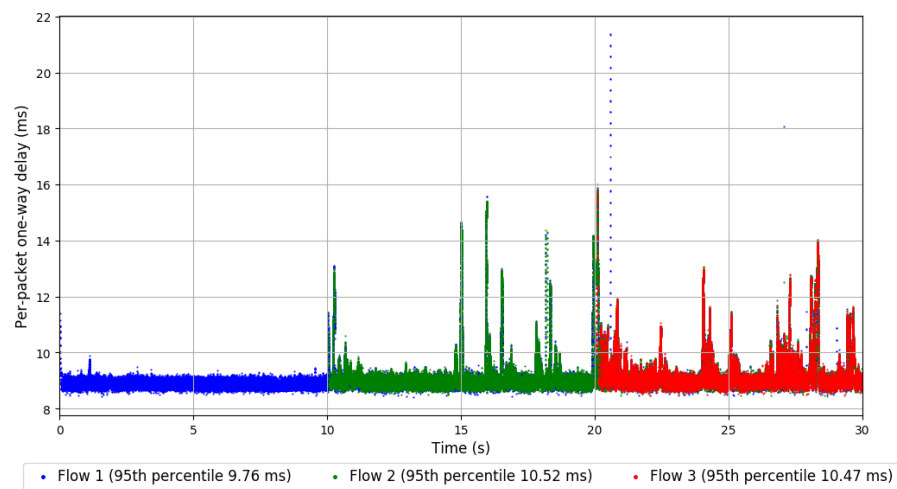
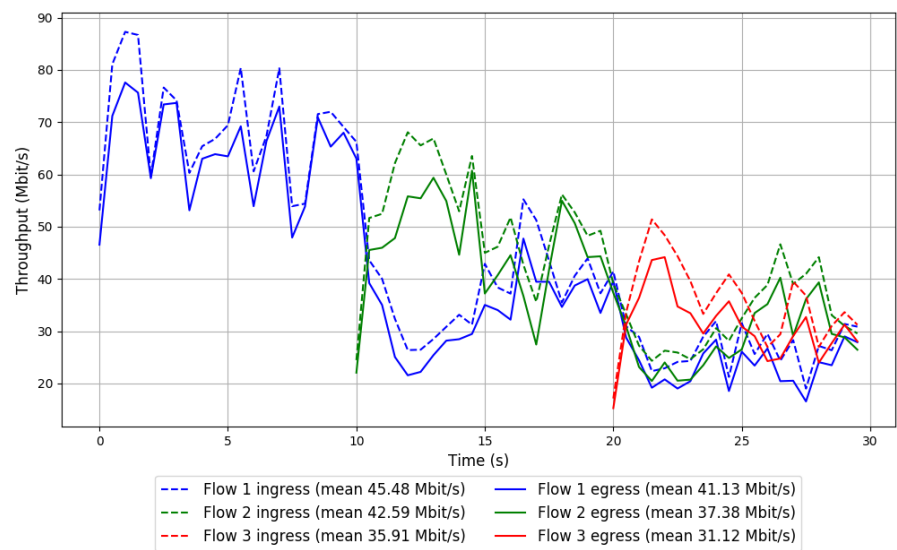
-- Flow 3:

Average throughput: 31.12 Mbit/s

95th percentile per-packet one-way delay: 10.470 ms

Loss rate: 13.34%

Run 10: Report of Copa — Data Link

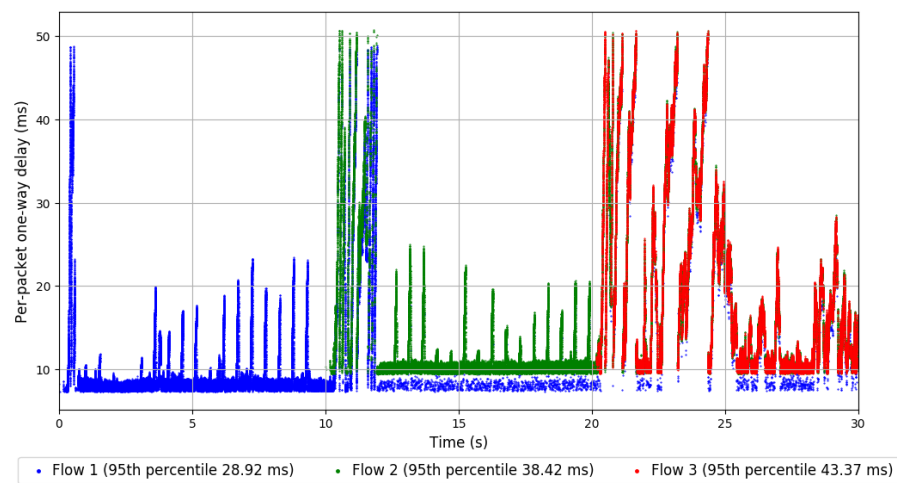
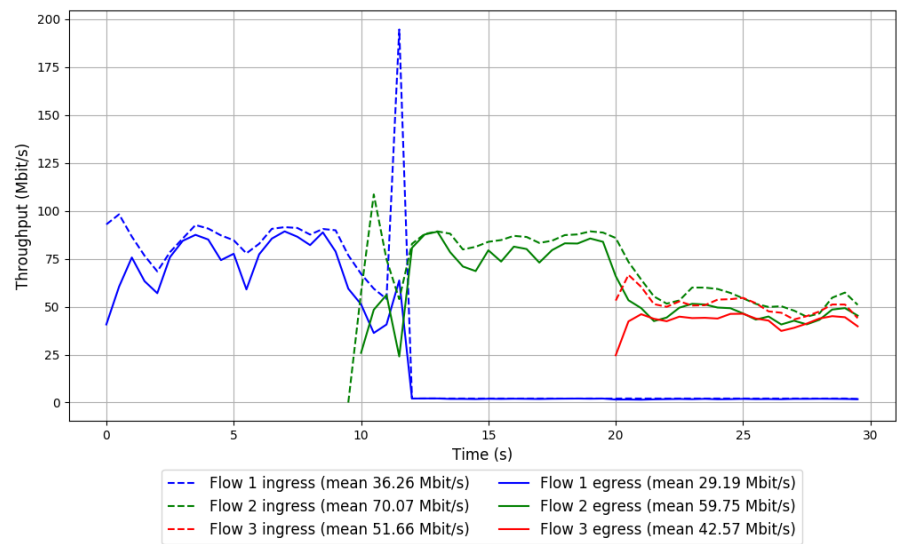


Run 1: Statistics of FillP

Start at: 2018-04-17 16:56:01
End at: 2018-04-17 16:56:31
Local clock offset: -4.18 ms
Remote clock offset: -11.283 ms

Below is generated by plot.py at 2018-04-17 20:39:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 83.11 Mbit/s
95th percentile per-packet one-way delay: 38.388 ms
Loss rate: 16.93%
-- Flow 1:
Average throughput: 29.19 Mbit/s
95th percentile per-packet one-way delay: 28.922 ms
Loss rate: 19.49%
-- Flow 2:
Average throughput: 59.75 Mbit/s
95th percentile per-packet one-way delay: 38.423 ms
Loss rate: 14.70%
-- Flow 3:
Average throughput: 42.57 Mbit/s
95th percentile per-packet one-way delay: 43.370 ms
Loss rate: 17.57%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-04-17 17:16:03

End at: 2018-04-17 17:16:33

Local clock offset: -2.202 ms

Remote clock offset: -6.52 ms

Below is generated by plot.py at 2018-04-17 20:39:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 63.38 Mbit/s

95th percentile per-packet one-way delay: 32.180 ms

Loss rate: 18.98%

-- Flow 1:

Average throughput: 24.88 Mbit/s

95th percentile per-packet one-way delay: 35.461 ms

Loss rate: 21.68%

-- Flow 2:

Average throughput: 37.40 Mbit/s

95th percentile per-packet one-way delay: 33.227 ms

Loss rate: 16.71%

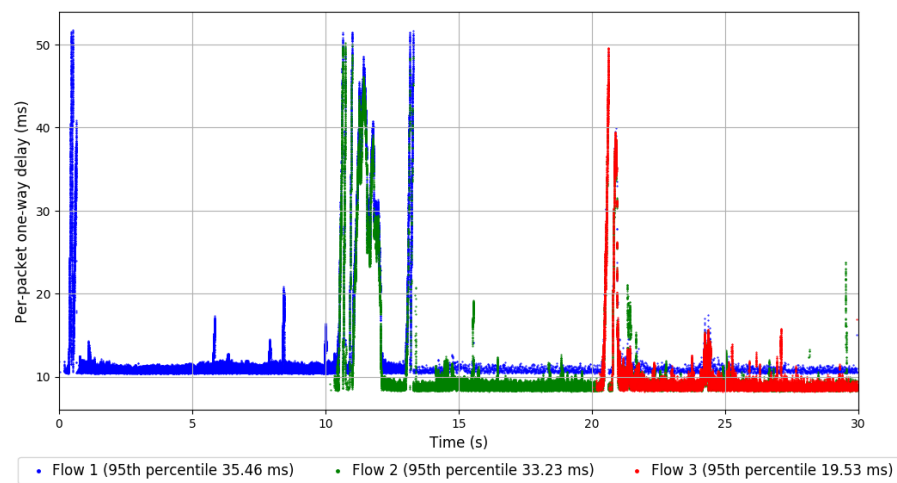
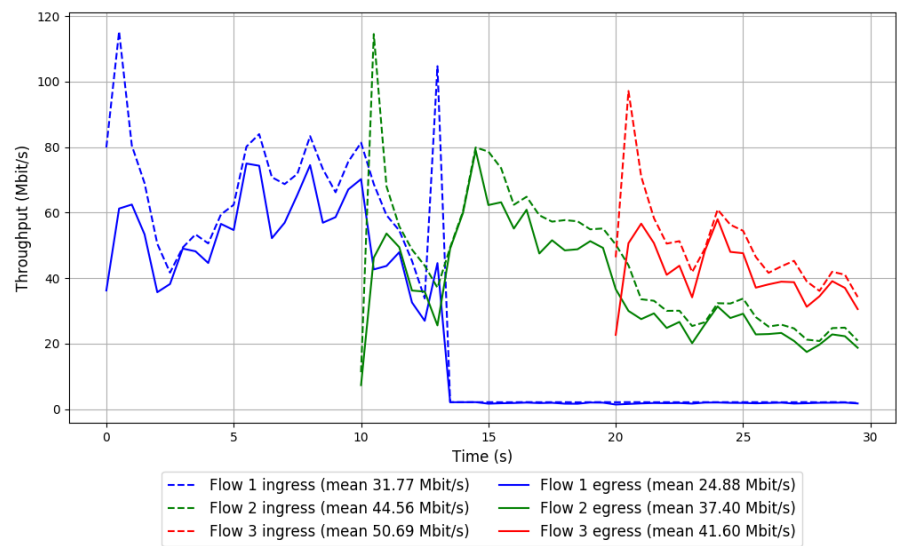
-- Flow 3:

Average throughput: 41.60 Mbit/s

95th percentile per-packet one-way delay: 19.527 ms

Loss rate: 17.87%

Run 2: Report of FillP — Data Link

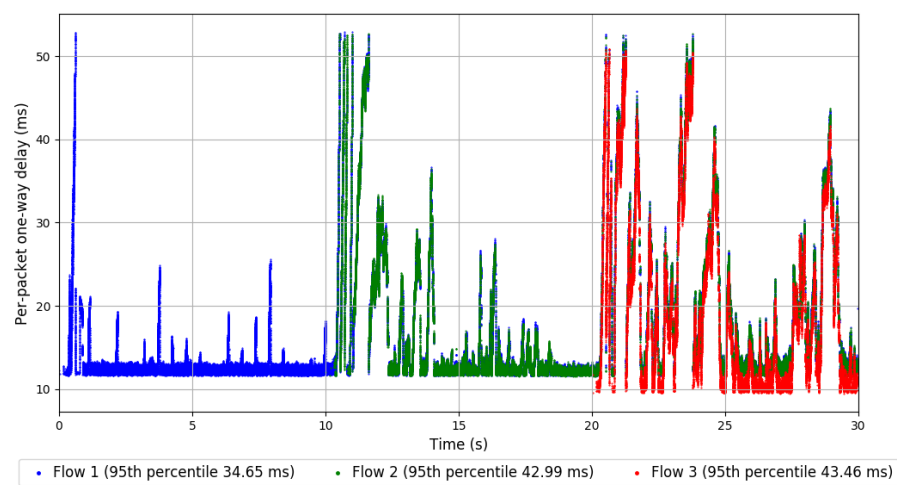
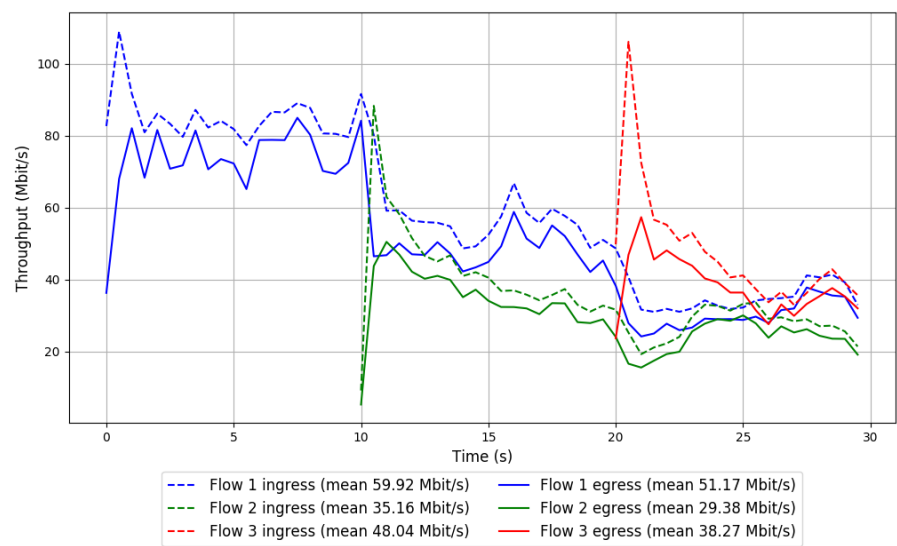


Run 3: Statistics of FillP

Start at: 2018-04-17 17:35:59
End at: 2018-04-17 17:36:29
Local clock offset: -10.5 ms
Remote clock offset: -5.304 ms

Below is generated by plot.py at 2018-04-17 20:39:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 83.41 Mbit/s
95th percentile per-packet one-way delay: 39.395 ms
Loss rate: 15.95%
-- Flow 1:
Average throughput: 51.17 Mbit/s
95th percentile per-packet one-way delay: 34.654 ms
Loss rate: 14.60%
-- Flow 2:
Average throughput: 29.38 Mbit/s
95th percentile per-packet one-way delay: 42.989 ms
Loss rate: 16.44%
-- Flow 3:
Average throughput: 38.27 Mbit/s
95th percentile per-packet one-way delay: 43.458 ms
Loss rate: 20.34%

Run 3: Report of FillP — Data Link

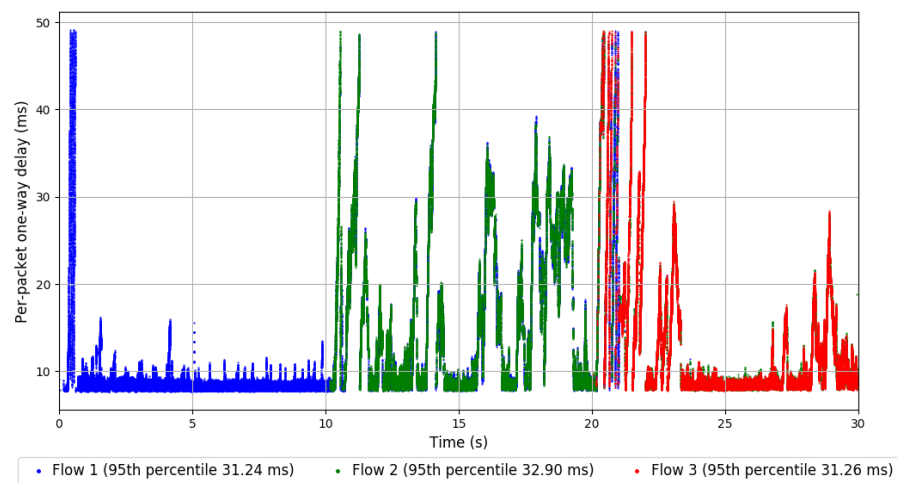
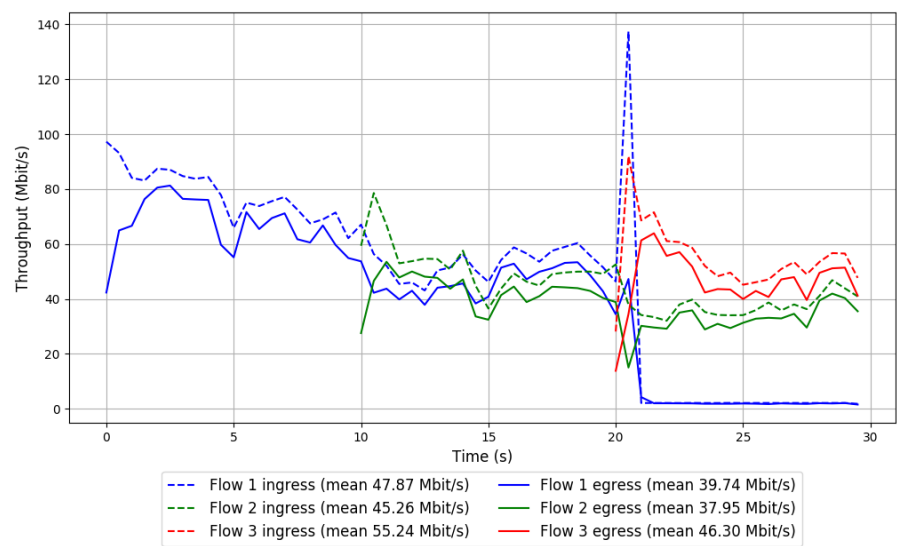


Run 4: Statistics of FillP

Start at: 2018-04-17 17:55:54
End at: 2018-04-17 17:56:24
Local clock offset: -8.838 ms
Remote clock offset: -5.36 ms

Below is generated by plot.py at 2018-04-17 20:39:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 80.32 Mbit/s
95th percentile per-packet one-way delay: 31.928 ms
Loss rate: 16.57%
-- Flow 1:
Average throughput: 39.74 Mbit/s
95th percentile per-packet one-way delay: 31.239 ms
Loss rate: 17.00%
-- Flow 2:
Average throughput: 37.95 Mbit/s
95th percentile per-packet one-way delay: 32.898 ms
Loss rate: 16.12%
-- Flow 3:
Average throughput: 46.30 Mbit/s
95th percentile per-packet one-way delay: 31.256 ms
Loss rate: 16.20%

Run 4: Report of FillP — Data Link

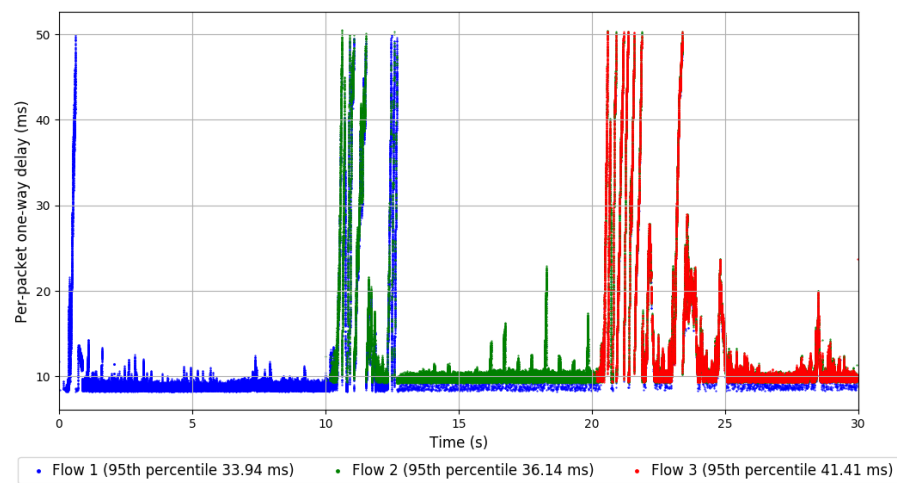
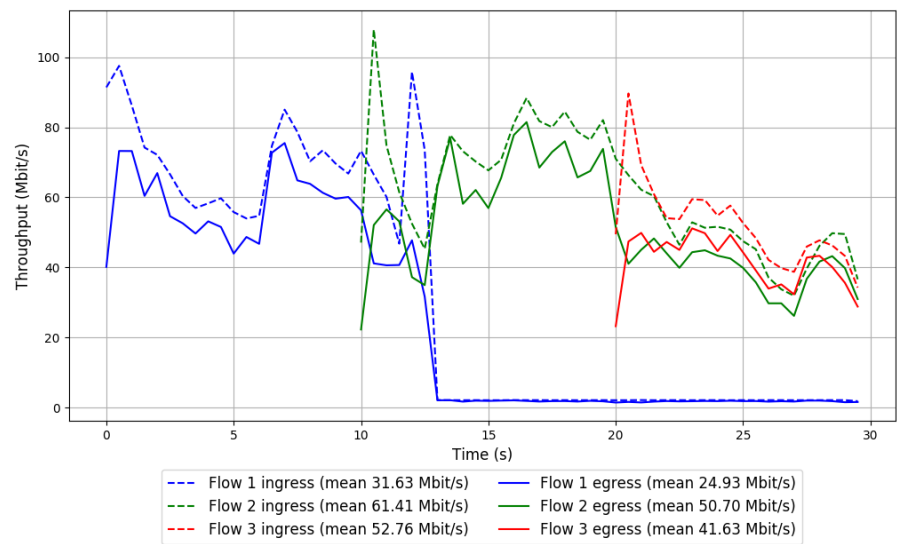


Run 5: Statistics of FillP

Start at: 2018-04-17 18:16:00
End at: 2018-04-17 18:16:30
Local clock offset: -5.429 ms
Remote clock offset: -4.552 ms

Below is generated by plot.py at 2018-04-17 20:39:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 72.47 Mbit/s
95th percentile per-packet one-way delay: 36.854 ms
Loss rate: 19.45%
-- Flow 1:
Average throughput: 24.93 Mbit/s
95th percentile per-packet one-way delay: 33.944 ms
Loss rate: 21.20%
-- Flow 2:
Average throughput: 50.70 Mbit/s
95th percentile per-packet one-way delay: 36.137 ms
Loss rate: 17.44%
-- Flow 3:
Average throughput: 41.63 Mbit/s
95th percentile per-packet one-way delay: 41.406 ms
Loss rate: 20.99%

Run 5: Report of FillP — Data Link

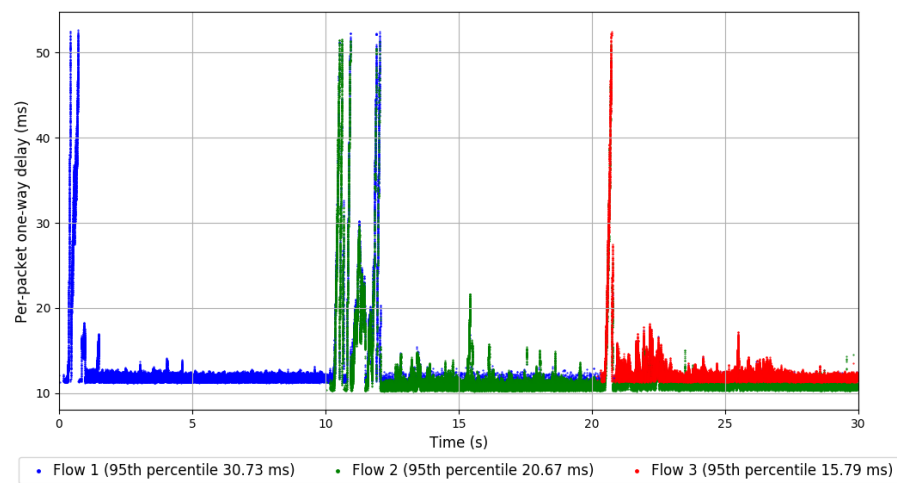
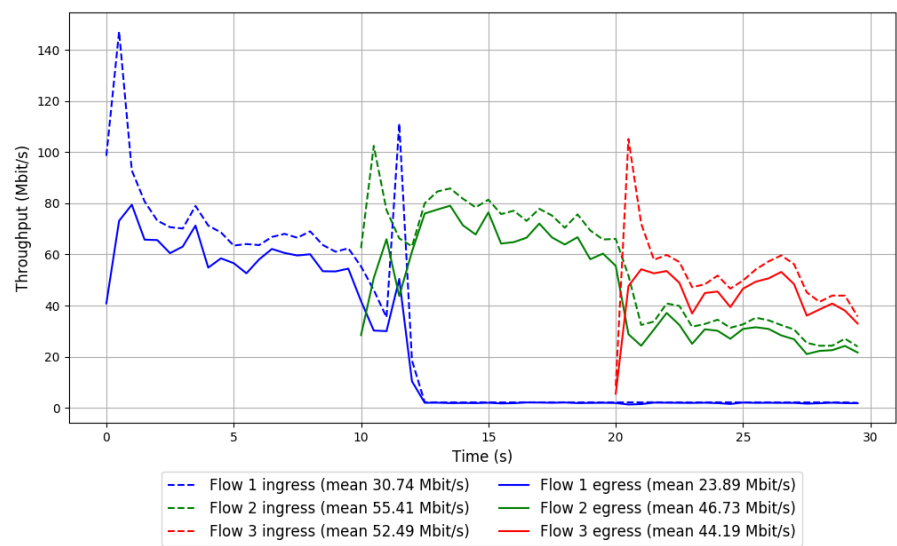


Run 6: Statistics of FillP

Start at: 2018-04-17 18:36:02
End at: 2018-04-17 18:36:33
Local clock offset: -6.673 ms
Remote clock offset: -5.494 ms

Below is generated by plot.py at 2018-04-17 20:39:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 69.41 Mbit/s
95th percentile per-packet one-way delay: 22.973 ms
Loss rate: 18.35%
-- Flow 1:
Average throughput: 23.89 Mbit/s
95th percentile per-packet one-way delay: 30.733 ms
Loss rate: 22.29%
-- Flow 2:
Average throughput: 46.73 Mbit/s
95th percentile per-packet one-way delay: 20.669 ms
Loss rate: 15.66%
-- Flow 3:
Average throughput: 44.19 Mbit/s
95th percentile per-packet one-way delay: 15.785 ms
Loss rate: 17.10%

Run 6: Report of FillP — Data Link

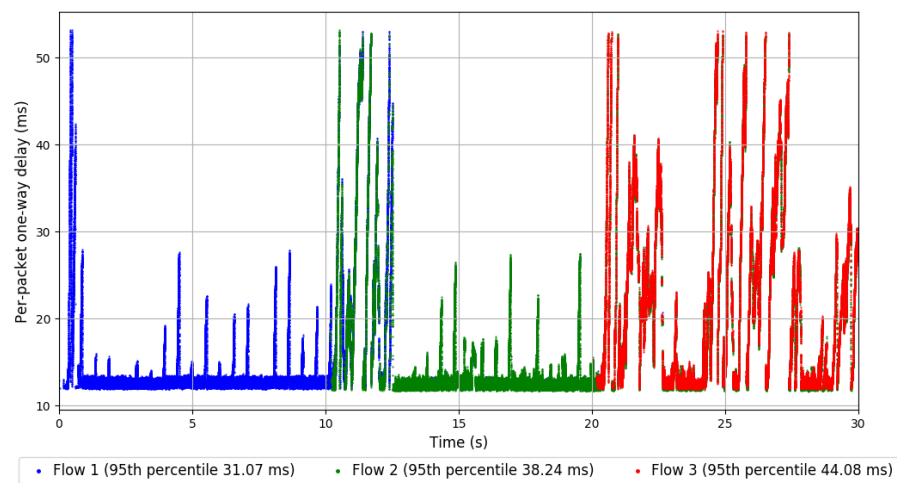
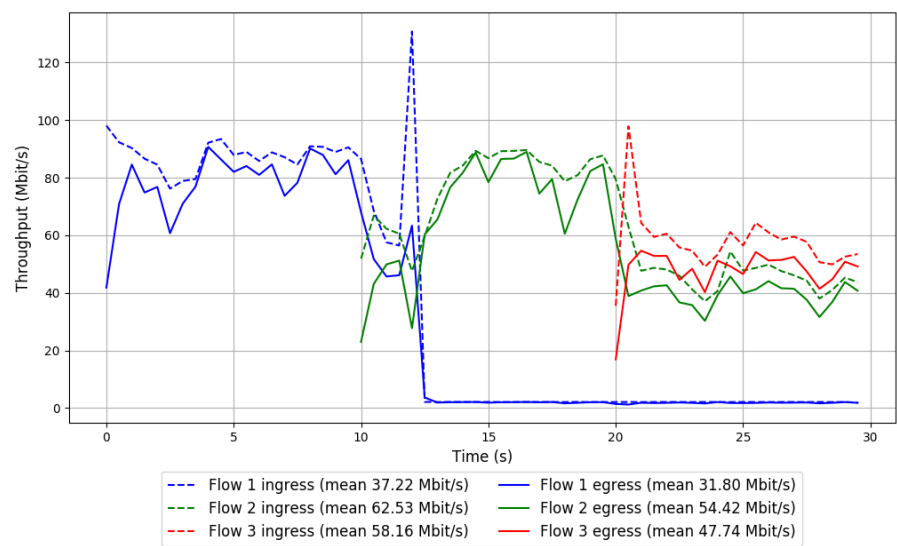


Run 7: Statistics of FillP

Start at: 2018-04-17 18:56:09
End at: 2018-04-17 18:56:39
Local clock offset: -4.824 ms
Remote clock offset: -1.931 ms

Below is generated by plot.py at 2018-04-17 20:40:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 83.89 Mbit/s
95th percentile per-packet one-way delay: 38.755 ms
Loss rate: 14.48%
-- Flow 1:
Average throughput: 31.80 Mbit/s
95th percentile per-packet one-way delay: 31.067 ms
Loss rate: 14.53%
-- Flow 2:
Average throughput: 54.42 Mbit/s
95th percentile per-packet one-way delay: 38.236 ms
Loss rate: 12.89%
-- Flow 3:
Average throughput: 47.74 Mbit/s
95th percentile per-packet one-way delay: 44.077 ms
Loss rate: 17.80%

Run 7: Report of FillP — Data Link

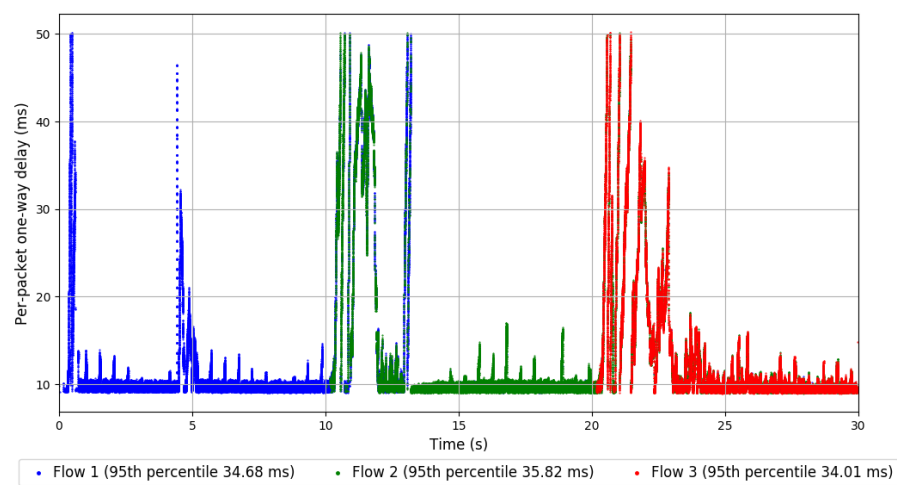
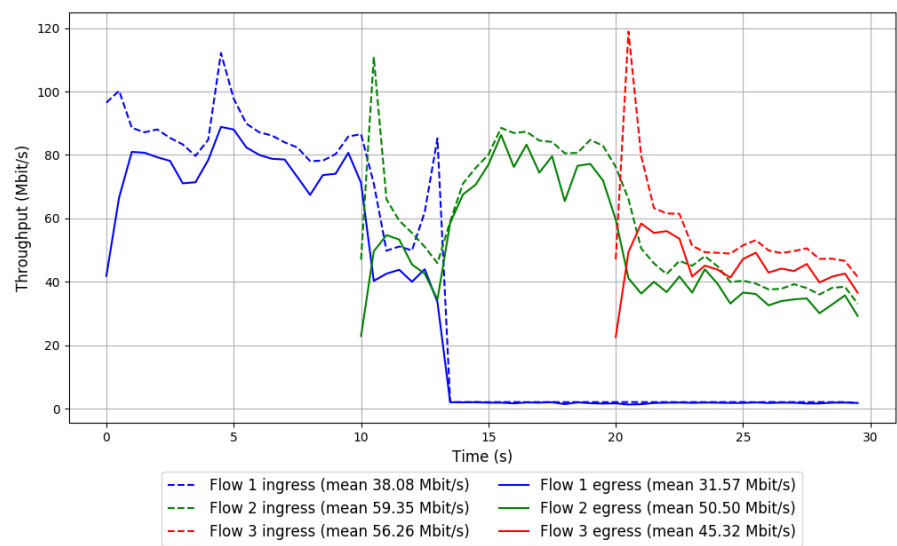


Run 8: Statistics of FillP

Start at: 2018-04-17 19:16:09
End at: 2018-04-17 19:16:39
Local clock offset: -7.309 ms
Remote clock offset: -0.286 ms

Below is generated by plot.py at 2018-04-17 20:40:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 80.21 Mbit/s
95th percentile per-packet one-way delay: 34.978 ms
Loss rate: 16.65%
-- Flow 1:
Average throughput: 31.57 Mbit/s
95th percentile per-packet one-way delay: 34.684 ms
Loss rate: 17.10%
-- Flow 2:
Average throughput: 50.50 Mbit/s
95th percentile per-packet one-way delay: 35.823 ms
Loss rate: 14.91%
-- Flow 3:
Average throughput: 45.32 Mbit/s
95th percentile per-packet one-way delay: 34.010 ms
Loss rate: 19.40%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-04-17 19:35:59

End at: 2018-04-17 19:36:29

Local clock offset: -9.406 ms

Remote clock offset: 0.777 ms

Below is generated by plot.py at 2018-04-17 20:40:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 72.48 Mbit/s

95th percentile per-packet one-way delay: 24.798 ms

Loss rate: 17.21%

-- Flow 1:

Average throughput: 27.82 Mbit/s

95th percentile per-packet one-way delay: 24.330 ms

Loss rate: 18.31%

-- Flow 2:

Average throughput: 40.45 Mbit/s

95th percentile per-packet one-way delay: 29.511 ms

Loss rate: 18.48%

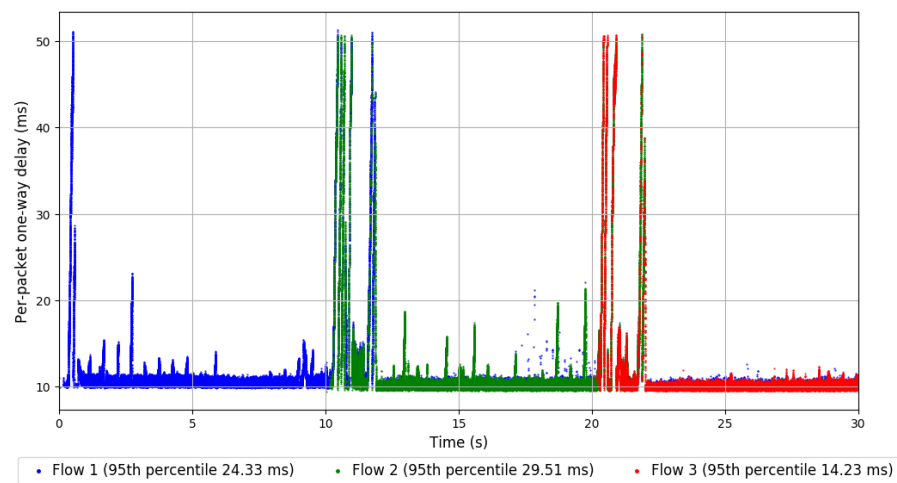
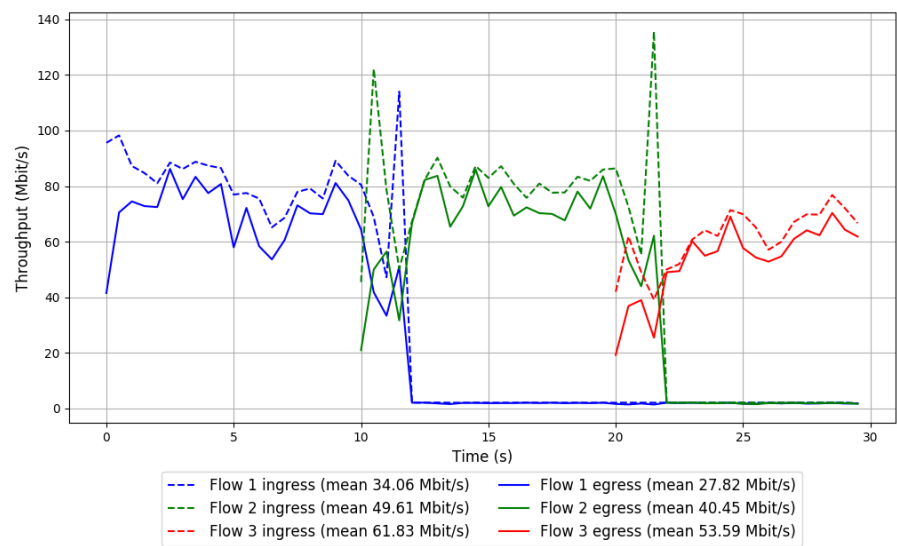
-- Flow 3:

Average throughput: 53.59 Mbit/s

95th percentile per-packet one-way delay: 14.226 ms

Loss rate: 13.33%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-04-17 19:56:07

End at: 2018-04-17 19:56:37

Local clock offset: -6.907 ms

Remote clock offset: 2.622 ms

Below is generated by plot.py at 2018-04-17 20:40:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 76.40 Mbit/s

95th percentile per-packet one-way delay: 27.008 ms

Loss rate: 17.42%

-- Flow 1:

Average throughput: 29.10 Mbit/s

95th percentile per-packet one-way delay: 23.464 ms

Loss rate: 17.41%

-- Flow 2:

Average throughput: 40.22 Mbit/s

95th percentile per-packet one-way delay: 28.651 ms

Loss rate: 18.01%

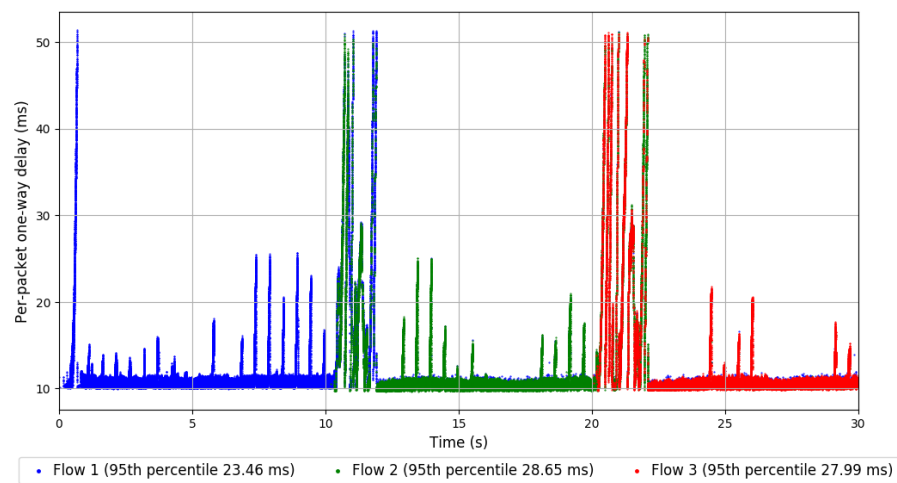
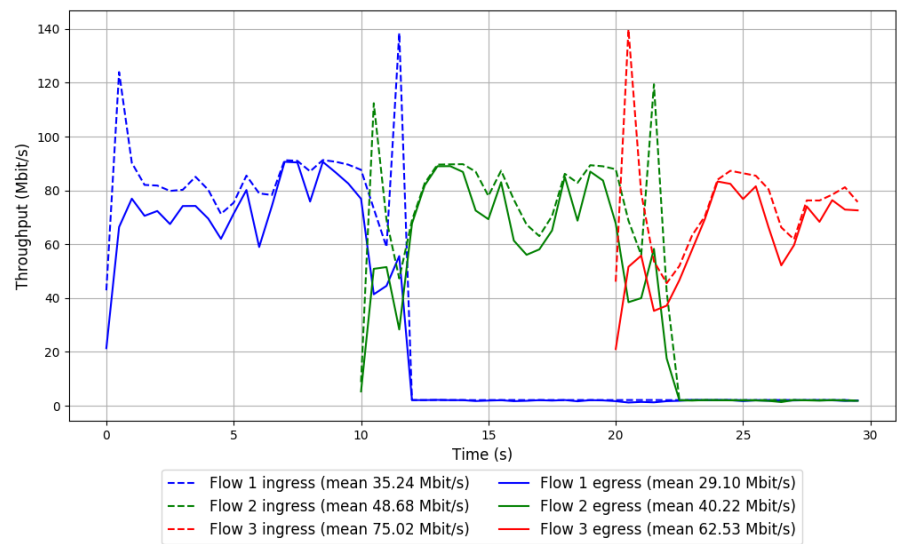
-- Flow 3:

Average throughput: 62.53 Mbit/s

95th percentile per-packet one-way delay: 27.993 ms

Loss rate: 16.65%

Run 10: Report of FillP — Data Link

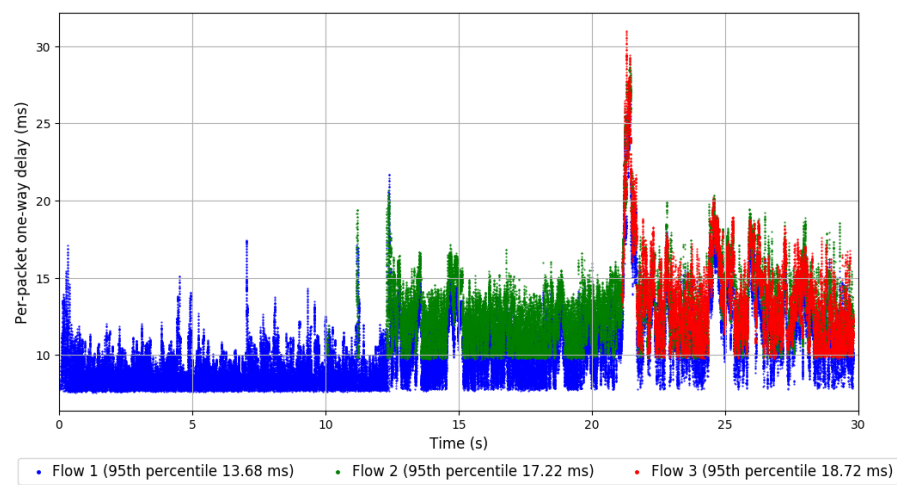
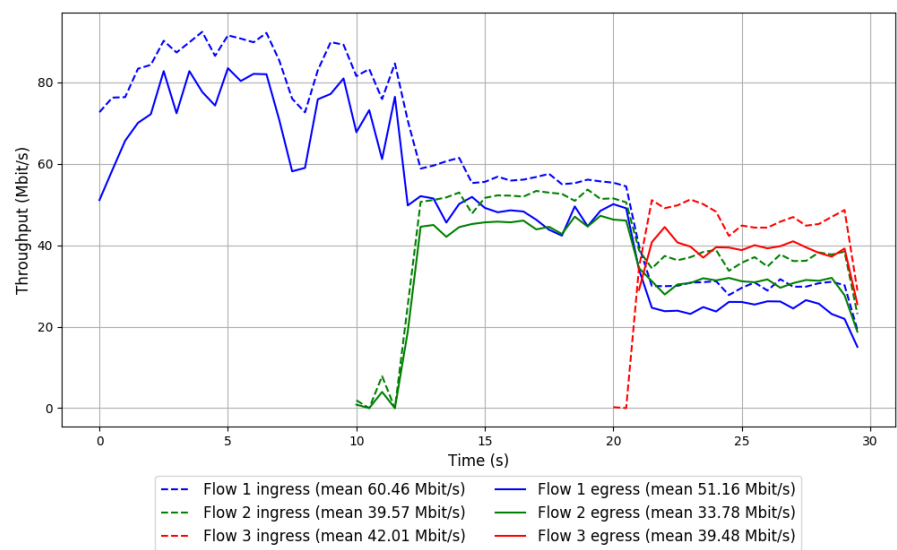


Run 1: Statistics of Indigo-1-32

Start at: 2018-04-17 16:47:39
End at: 2018-04-17 16:48:09
Local clock offset: -5.568 ms
Remote clock offset: -10.579 ms

Below is generated by plot.py at 2018-04-17 20:41:07
Datalink statistics
-- Total of 3 flows:
Average throughput: 85.12 Mbit/s
95th percentile per-packet one-way delay: 16.267 ms
Loss rate: 15.23%
-- Flow 1:
Average throughput: 51.16 Mbit/s
95th percentile per-packet one-way delay: 13.680 ms
Loss rate: 15.38%
-- Flow 2:
Average throughput: 33.78 Mbit/s
95th percentile per-packet one-way delay: 17.223 ms
Loss rate: 14.62%
-- Flow 3:
Average throughput: 39.48 Mbit/s
95th percentile per-packet one-way delay: 18.720 ms
Loss rate: 15.72%

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

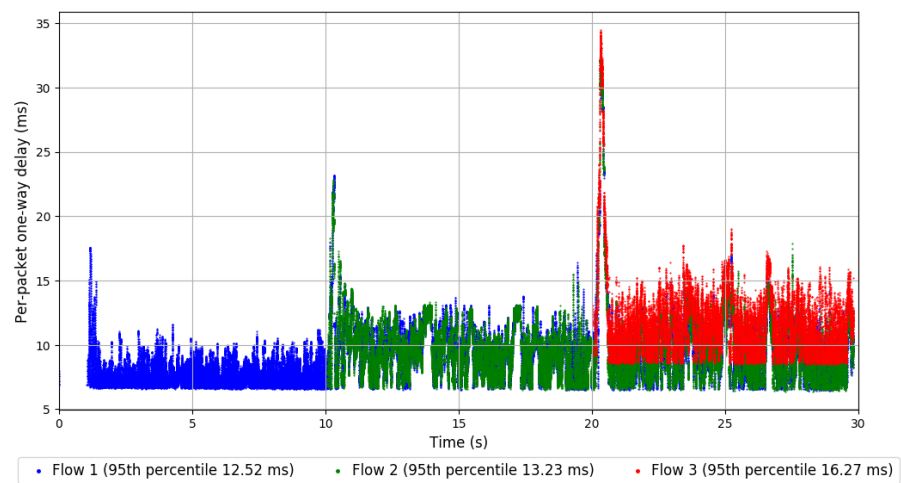
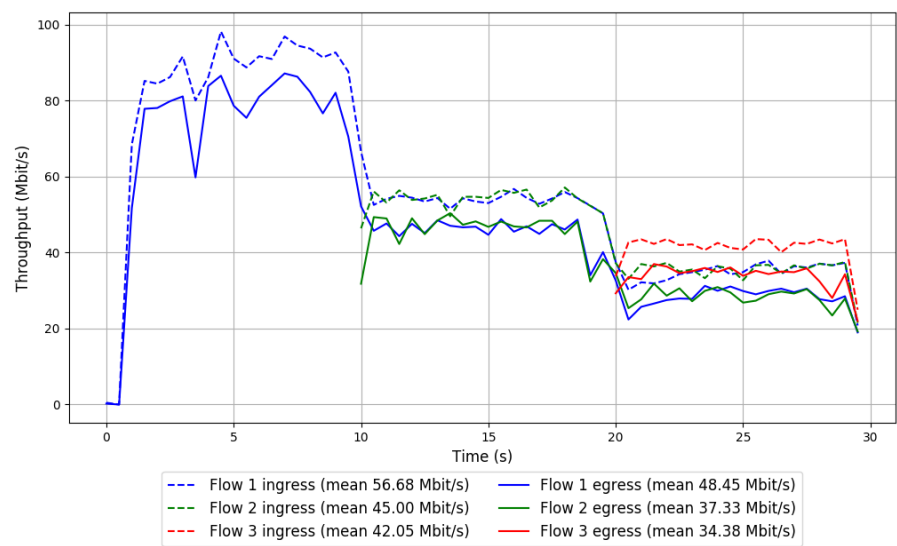


Run 2: Statistics of Indigo-1-32

Start at: 2018-04-17 17:07:34
End at: 2018-04-17 17:08:04
Local clock offset: -2.782 ms
Remote clock offset: -11.149 ms

Below is generated by plot.py at 2018-04-17 20:41:14
Datalink statistics
-- Total of 3 flows:
Average throughput: 84.45 Mbit/s
95th percentile per-packet one-way delay: 13.483 ms
Loss rate: 15.78%
-- Flow 1:
Average throughput: 48.45 Mbit/s
95th percentile per-packet one-way delay: 12.519 ms
Loss rate: 14.52%
-- Flow 2:
Average throughput: 37.33 Mbit/s
95th percentile per-packet one-way delay: 13.227 ms
Loss rate: 17.04%
-- Flow 3:
Average throughput: 34.38 Mbit/s
95th percentile per-packet one-way delay: 16.272 ms
Loss rate: 18.23%

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



Run 3: Statistics of Indigo-1-32

Start at: 2018-04-17 17:27:36

End at: 2018-04-17 17:28:06

Local clock offset: -5.946 ms

Remote clock offset: -4.89 ms

Below is generated by plot.py at 2018-04-17 20:41:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.43 Mbit/s

95th percentile per-packet one-way delay: 16.493 ms

Loss rate: 16.27%

-- Flow 1:

Average throughput: 45.26 Mbit/s

95th percentile per-packet one-way delay: 14.390 ms

Loss rate: 16.73%

-- Flow 2:

Average throughput: 41.68 Mbit/s

95th percentile per-packet one-way delay: 17.675 ms

Loss rate: 15.42%

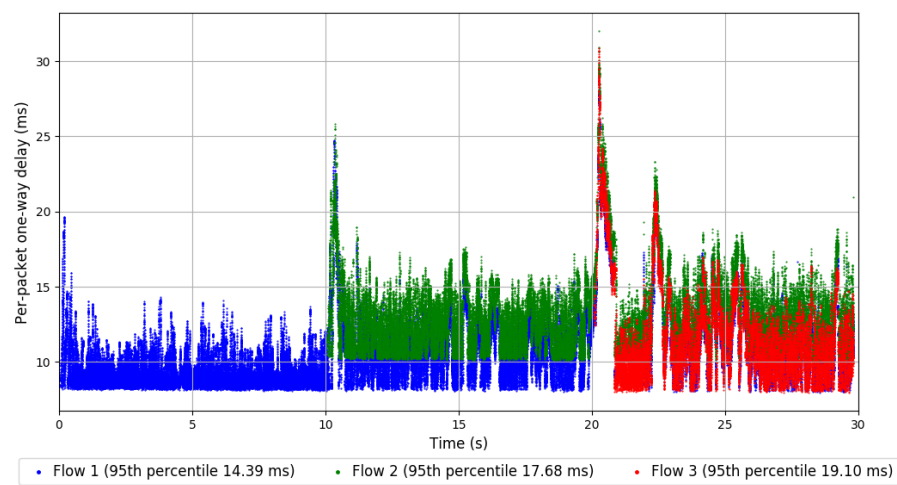
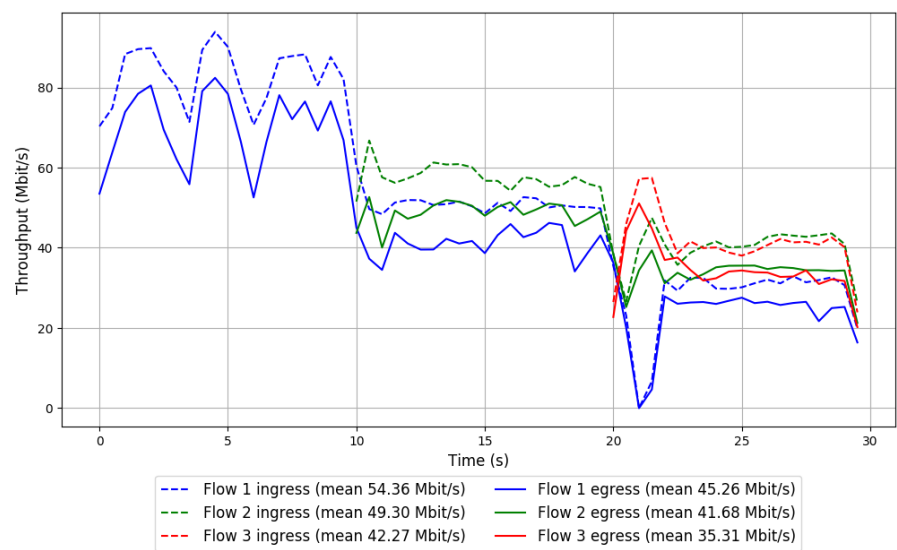
-- Flow 3:

Average throughput: 35.31 Mbit/s

95th percentile per-packet one-way delay: 19.100 ms

Loss rate: 16.46%

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

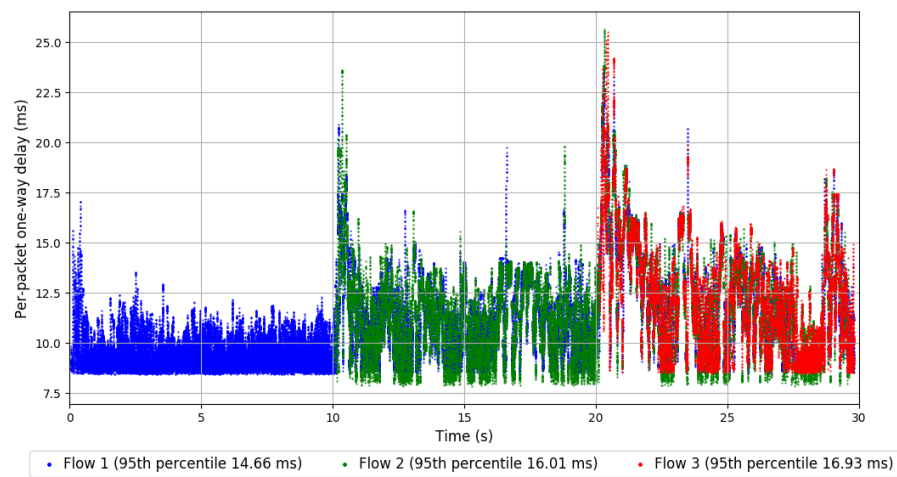
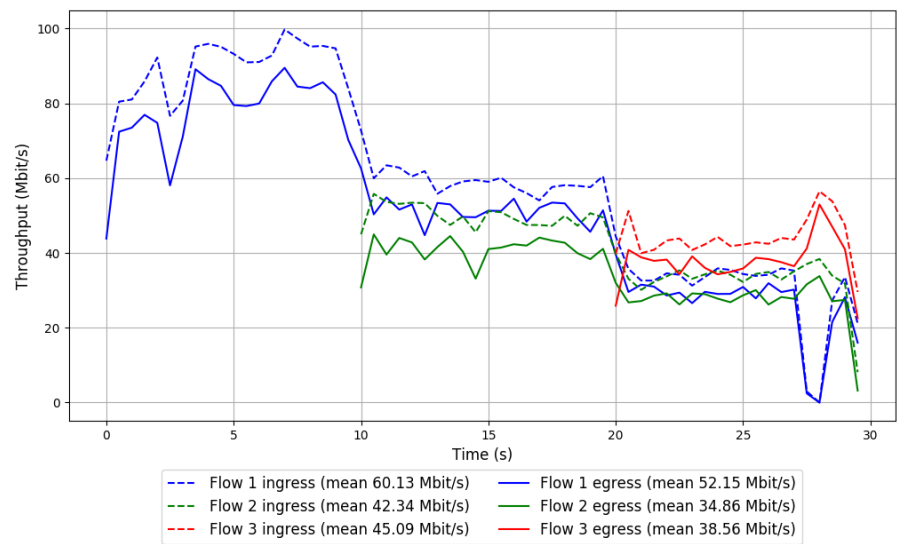


Run 4: Statistics of Indigo-1-32

Start at: 2018-04-17 17:47:31
End at: 2018-04-17 17:48:01
Local clock offset: -9.309 ms
Remote clock offset: -5.551 ms

Below is generated by plot.py at 2018-04-17 20:41:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 87.64 Mbit/s
95th percentile per-packet one-way delay: 15.778 ms
Loss rate: 14.67%
-- Flow 1:
Average throughput: 52.15 Mbit/s
95th percentile per-packet one-way delay: 14.665 ms
Loss rate: 13.27%
-- Flow 2:
Average throughput: 34.86 Mbit/s
95th percentile per-packet one-way delay: 16.010 ms
Loss rate: 17.77%
-- Flow 3:
Average throughput: 38.56 Mbit/s
95th percentile per-packet one-way delay: 16.928 ms
Loss rate: 14.52%

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

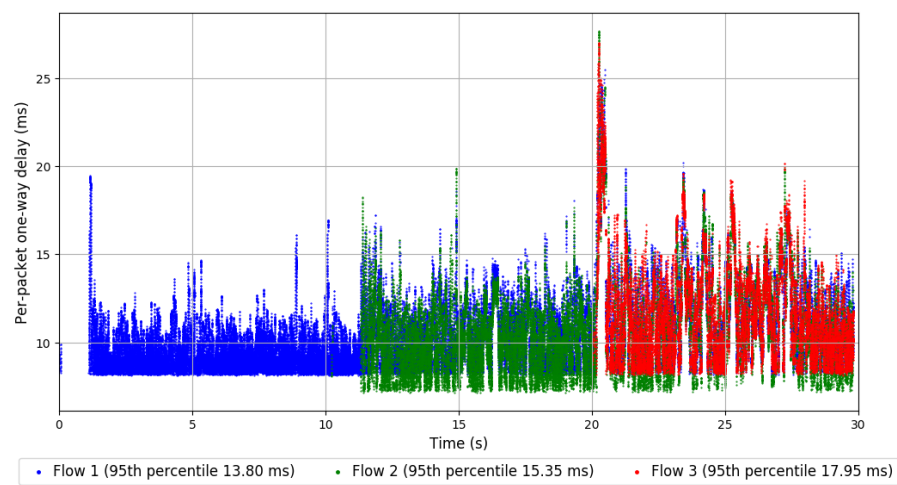
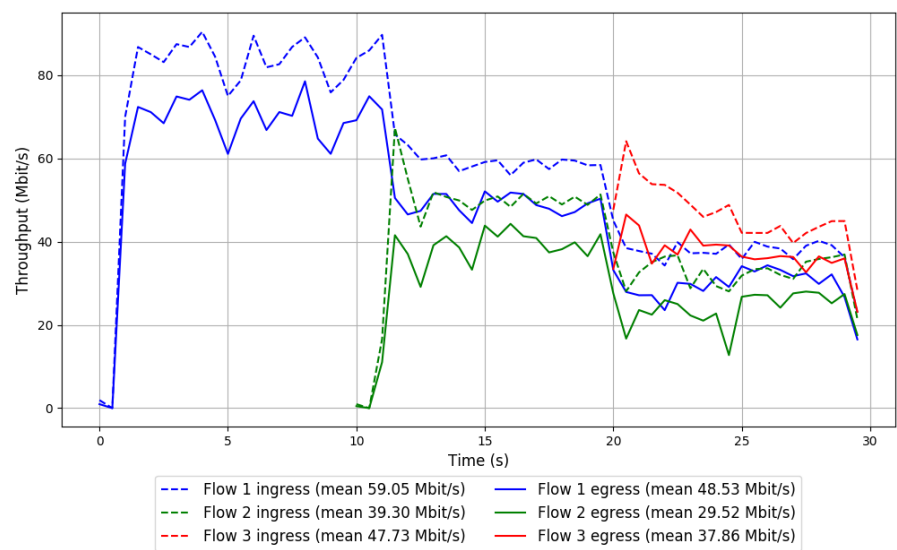


Run 5: Statistics of Indigo-1-32

Start at: 2018-04-17 18:07:38
End at: 2018-04-17 18:08:08
Local clock offset: -5.504 ms
Remote clock offset: -5.033 ms

Below is generated by plot.py at 2018-04-17 20:41:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 80.31 Mbit/s
95th percentile per-packet one-way delay: 14.983 ms
Loss rate: 20.06%
-- Flow 1:
Average throughput: 48.53 Mbit/s
95th percentile per-packet one-way delay: 13.799 ms
Loss rate: 17.80%
-- Flow 2:
Average throughput: 29.52 Mbit/s
95th percentile per-packet one-way delay: 15.352 ms
Loss rate: 24.85%
-- Flow 3:
Average throughput: 37.86 Mbit/s
95th percentile per-packet one-way delay: 17.955 ms
Loss rate: 20.68%

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



Run 6: Statistics of Indigo-1-32

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

End at: 2018-04-17 18:28:07

Local clock offset: -3.971 ms

Remote clock offset: -5.41 ms

Below is generated by plot.py at 2018-04-17 20:42:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.48 Mbit/s

95th percentile per-packet one-way delay: 15.482 ms

Loss rate: 12.93%

-- Flow 1:

Average throughput: 53.74 Mbit/s

95th percentile per-packet one-way delay: 14.490 ms

Loss rate: 11.61%

-- Flow 2:

Average throughput: 40.00 Mbit/s

95th percentile per-packet one-way delay: 16.146 ms

Loss rate: 12.61%

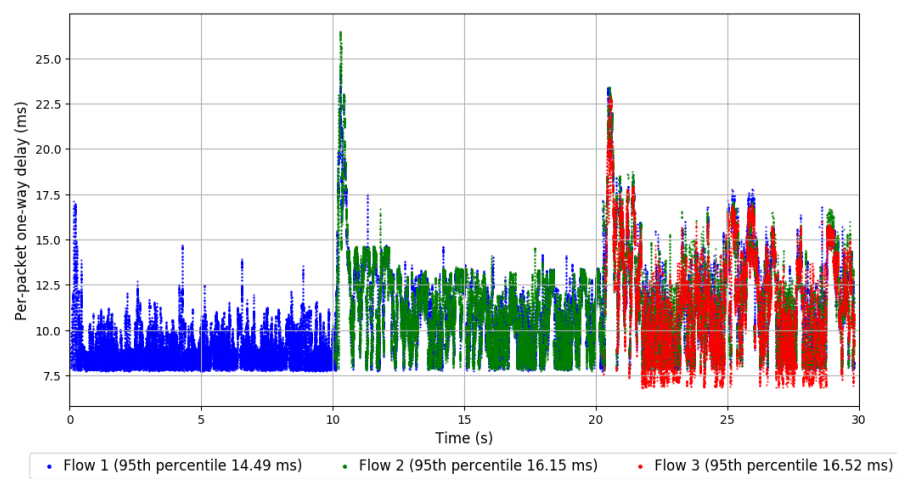
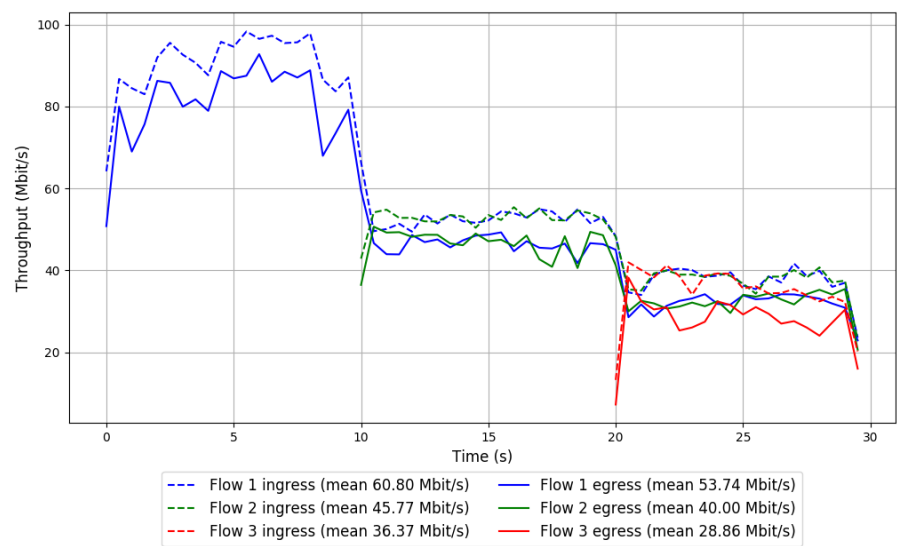
-- Flow 3:

Average throughput: 28.86 Mbit/s

95th percentile per-packet one-way delay: 16.515 ms

Loss rate: 20.62%

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



Run 7: Statistics of Indigo-1-32

Start at: 2018-04-17 18:47:50

End at: 2018-04-17 18:48:20

Local clock offset: -5.552 ms

Remote clock offset: -4.97 ms

Below is generated by plot.py at 2018-04-17 20:42:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.81 Mbit/s

95th percentile per-packet one-way delay: 18.596 ms

Loss rate: 13.27%

-- Flow 1:

Average throughput: 52.20 Mbit/s

95th percentile per-packet one-way delay: 17.634 ms

Loss rate: 12.97%

-- Flow 2:

Average throughput: 36.51 Mbit/s

95th percentile per-packet one-way delay: 18.864 ms

Loss rate: 13.96%

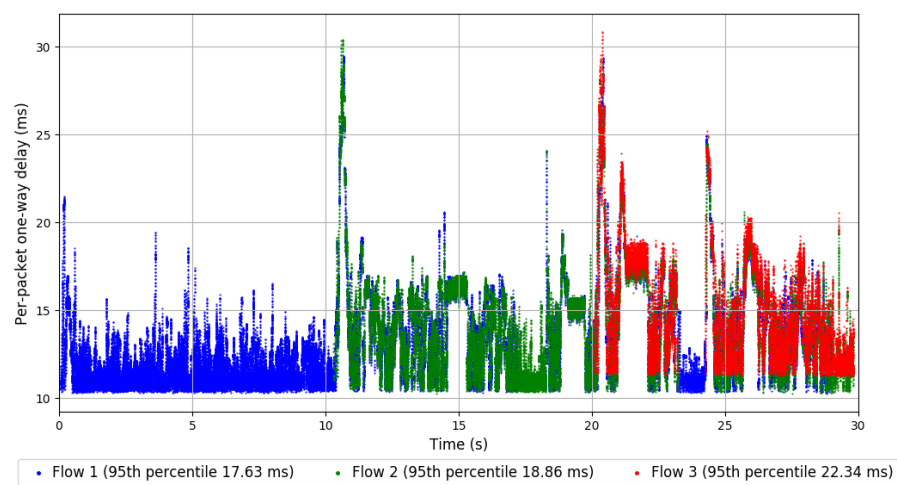
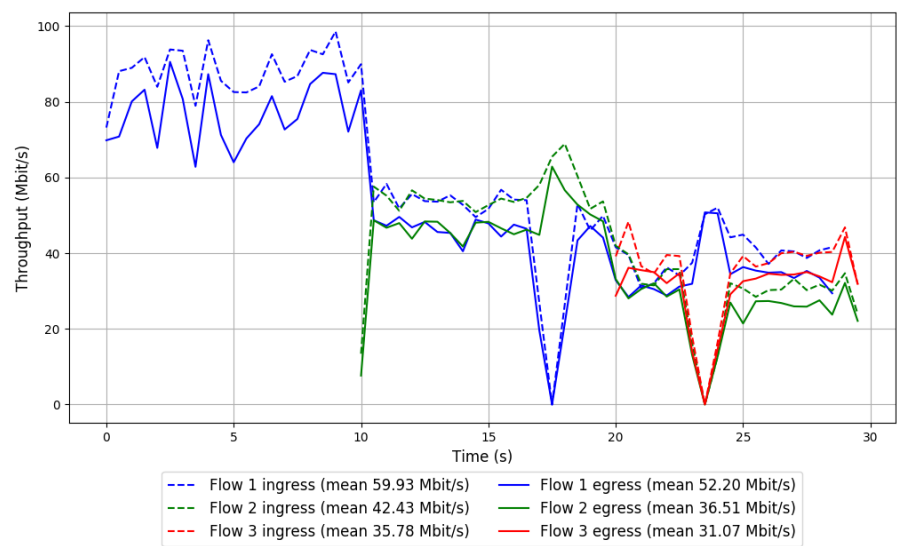
-- Flow 3:

Average throughput: 31.07 Mbit/s

95th percentile per-packet one-way delay: 22.341 ms

Loss rate: 13.16%

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

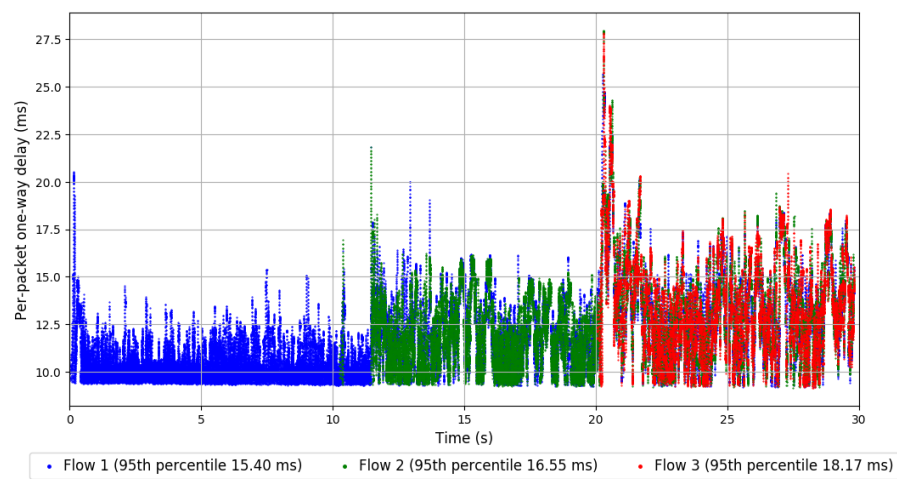
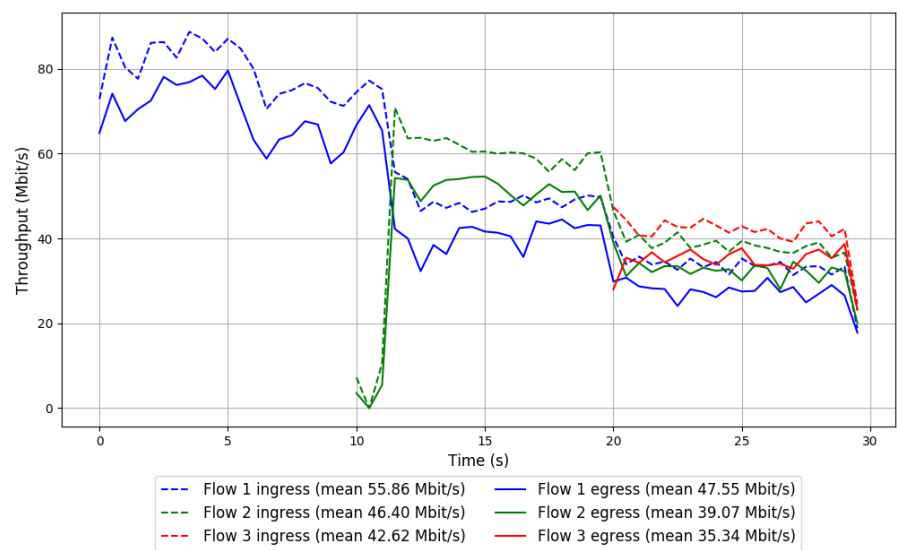


Run 8: Statistics of Indigo-1-32

Start at: 2018-04-17 19:07:36
End at: 2018-04-17 19:08:06
Local clock offset: -4.78 ms
Remote clock offset: -0.463 ms

Below is generated by plot.py at 2018-04-17 20:42:23
Datalink statistics
-- Total of 3 flows:
Average throughput: 84.73 Mbit/s
95th percentile per-packet one-way delay: 16.449 ms
Loss rate: 15.45%
-- Flow 1:
Average throughput: 47.55 Mbit/s
95th percentile per-packet one-way delay: 15.404 ms
Loss rate: 14.86%
-- Flow 2:
Average throughput: 39.07 Mbit/s
95th percentile per-packet one-way delay: 16.549 ms
Loss rate: 15.79%
-- Flow 3:
Average throughput: 35.34 Mbit/s
95th percentile per-packet one-way delay: 18.167 ms
Loss rate: 17.07%

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



Run 9: Statistics of Indigo-1-32

Start at: 2018-04-17 19:27:36

End at: 2018-04-17 19:28:06

Local clock offset: -8.624 ms

Remote clock offset: 0.175 ms

Below is generated by plot.py at 2018-04-17 20:42:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.90 Mbit/s

95th percentile per-packet one-way delay: 15.996 ms

Loss rate: 13.38%

-- Flow 1:

Average throughput: 47.10 Mbit/s

95th percentile per-packet one-way delay: 15.478 ms

Loss rate: 14.12%

-- Flow 2:

Average throughput: 40.02 Mbit/s

95th percentile per-packet one-way delay: 16.169 ms

Loss rate: 11.34%

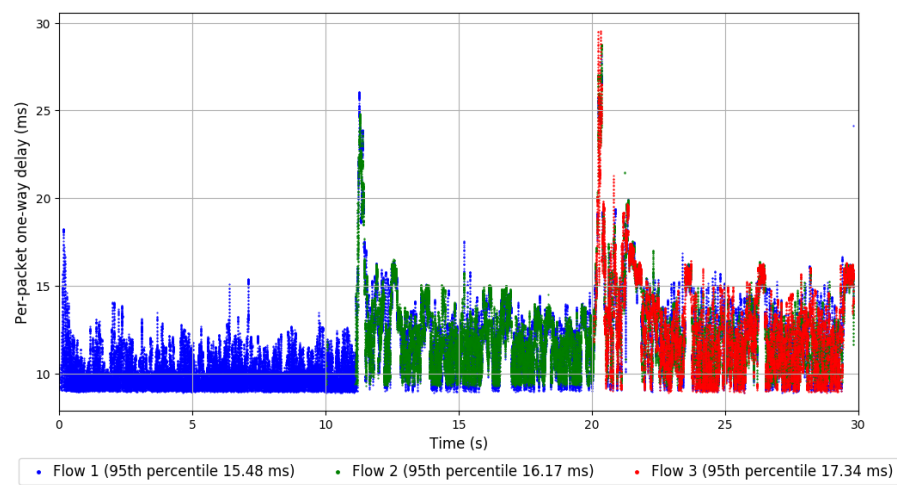
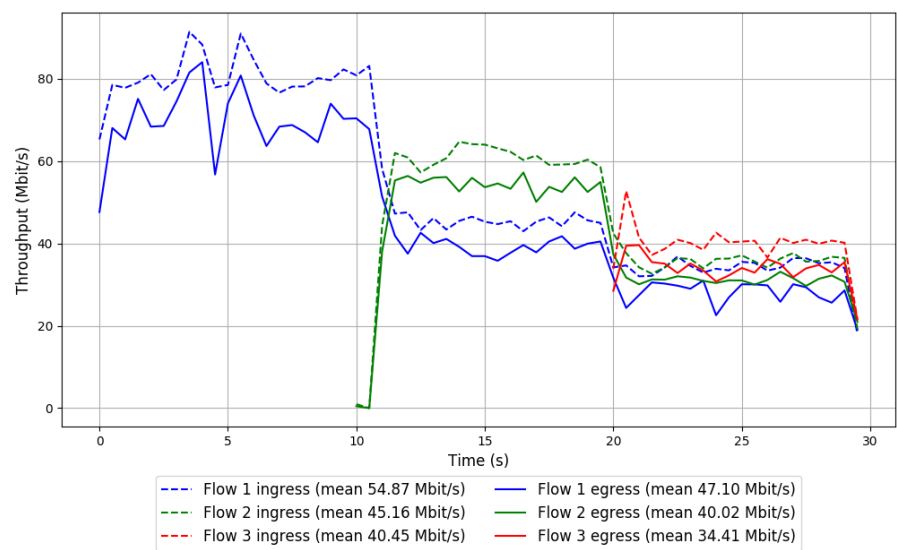
-- Flow 3:

Average throughput: 34.41 Mbit/s

95th percentile per-packet one-way delay: 17.340 ms

Loss rate: 14.91%

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



Run 10: Statistics of Indigo-1-32

Start at: 2018-04-17 19:47:51

End at: 2018-04-17 19:48:21

Local clock offset: -7.207 ms

Remote clock offset: 1.818 ms

Below is generated by plot.py at 2018-04-17 20:42:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.04 Mbit/s

95th percentile per-packet one-way delay: 17.013 ms

Loss rate: 11.47%

-- Flow 1:

Average throughput: 54.92 Mbit/s

95th percentile per-packet one-way delay: 16.769 ms

Loss rate: 10.74%

-- Flow 2:

Average throughput: 35.36 Mbit/s

95th percentile per-packet one-way delay: 17.144 ms

Loss rate: 12.71%

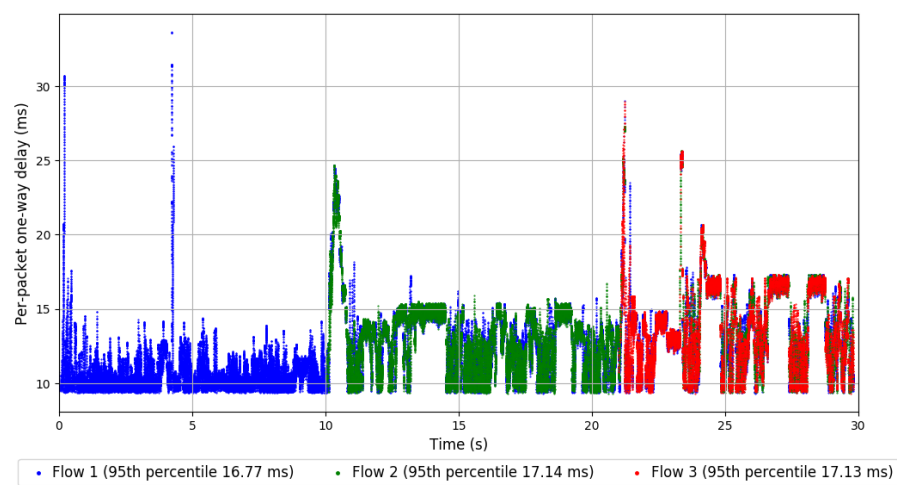
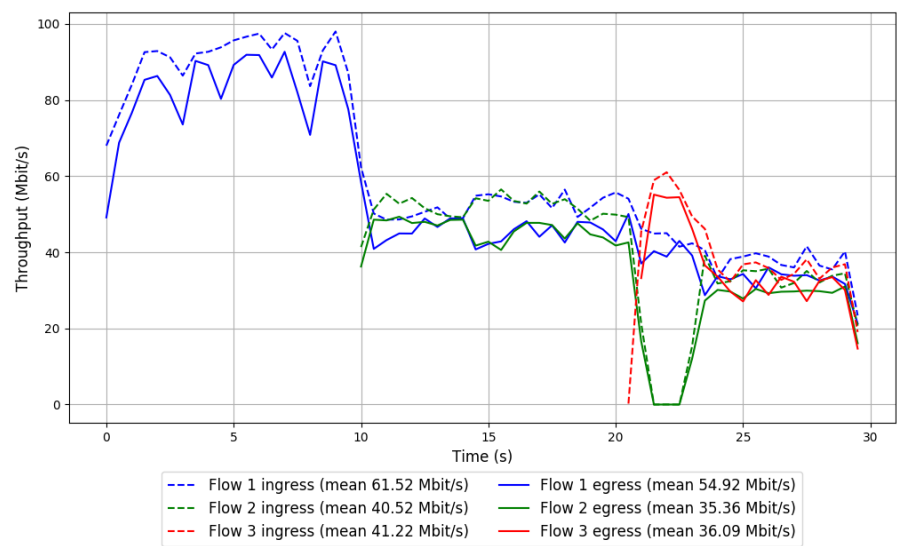
-- Flow 3:

Average throughput: 36.09 Mbit/s

95th percentile per-packet one-way delay: 17.134 ms

Loss rate: 12.42%

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

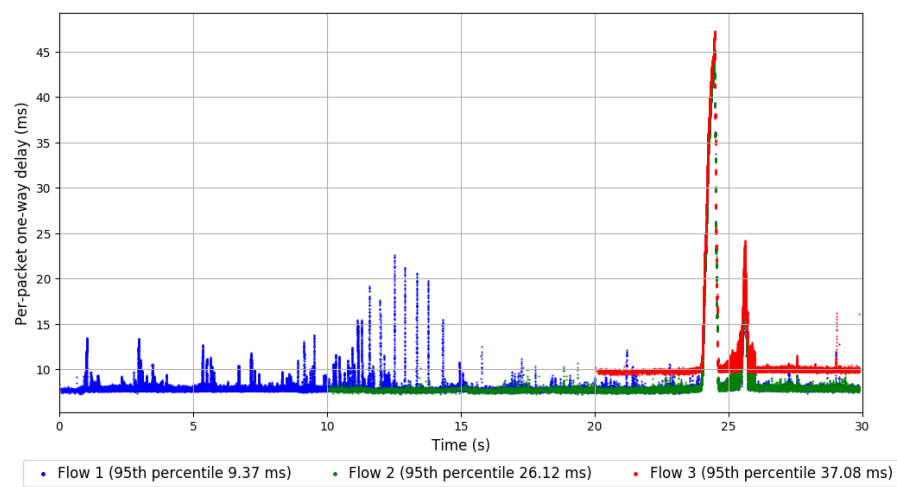
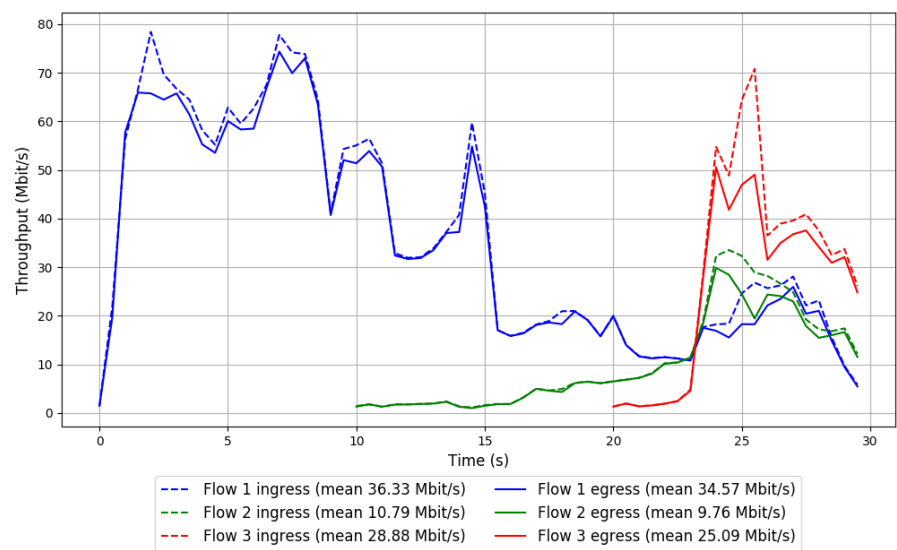


Run 1: Statistics of PCC-Vivace

Start at: 2018-04-17 16:44:12
End at: 2018-04-17 16:44:42
Local clock offset: -6.167 ms
Remote clock offset: -10.611 ms

Below is generated by plot.py at 2018-04-17 20:42:41
Datalink statistics
-- Total of 3 flows:
Average throughput: 49.33 Mbit/s
95th percentile per-packet one-way delay: 13.799 ms
Loss rate: 6.96%
-- Flow 1:
Average throughput: 34.57 Mbit/s
95th percentile per-packet one-way delay: 9.366 ms
Loss rate: 4.84%
-- Flow 2:
Average throughput: 9.76 Mbit/s
95th percentile per-packet one-way delay: 26.117 ms
Loss rate: 9.55%
-- Flow 3:
Average throughput: 25.09 Mbit/s
95th percentile per-packet one-way delay: 37.084 ms
Loss rate: 13.10%

Run 1: Report of PCC-Vivace — Data Link

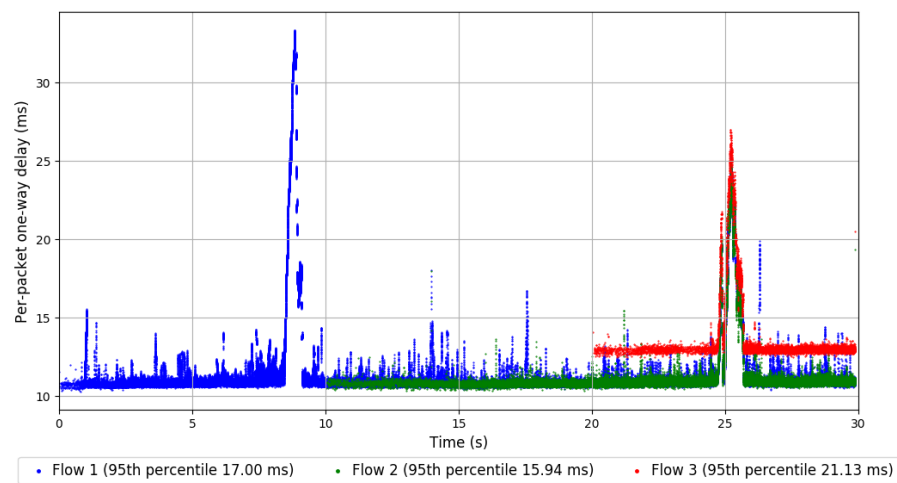
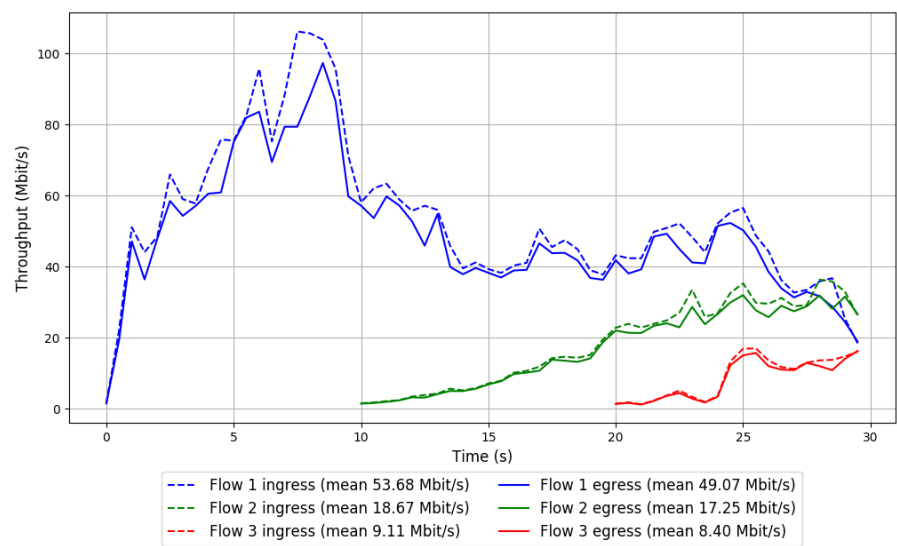


Run 2: Statistics of PCC-Vivace

Start at: 2018-04-17 17:04:08
End at: 2018-04-17 17:04:38
Local clock offset: -5.721 ms
Remote clock offset: -10.959 ms

Below is generated by plot.py at 2018-04-17 20:42:41
Datalink statistics
-- Total of 3 flows:
Average throughput: 63.30 Mbit/s
95th percentile per-packet one-way delay: 17.112 ms
Loss rate: 8.36%
-- Flow 1:
Average throughput: 49.07 Mbit/s
95th percentile per-packet one-way delay: 17.001 ms
Loss rate: 8.59%
-- Flow 2:
Average throughput: 17.25 Mbit/s
95th percentile per-packet one-way delay: 15.937 ms
Loss rate: 7.54%
-- Flow 3:
Average throughput: 8.40 Mbit/s
95th percentile per-packet one-way delay: 21.131 ms
Loss rate: 7.72%

Run 2: Report of PCC-Vivace — Data Link

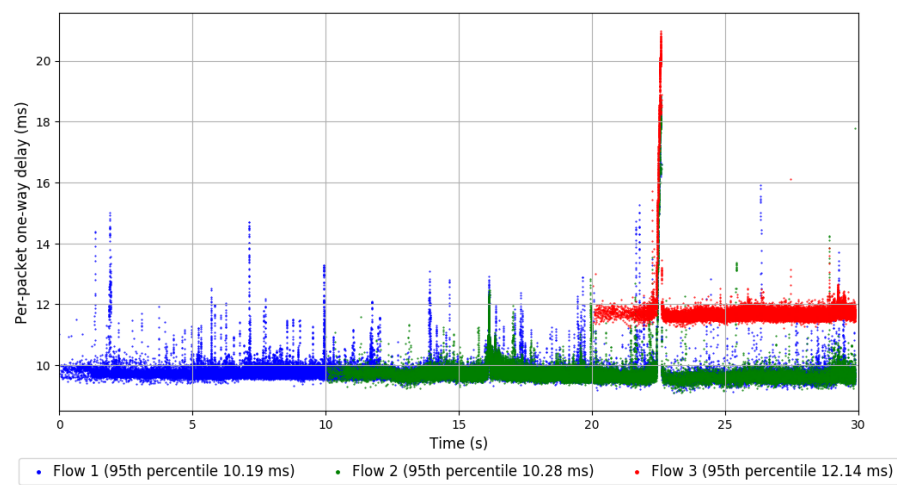
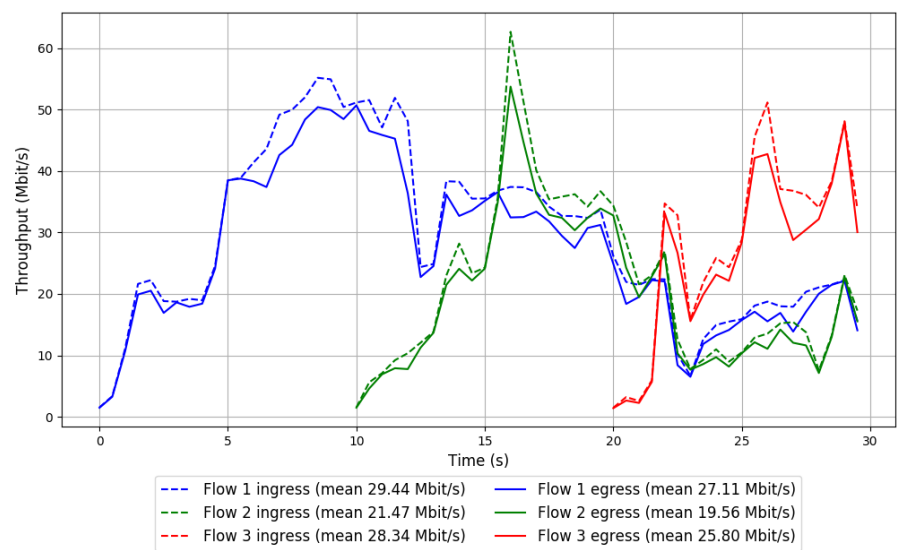


Run 3: Statistics of PCC-Vivace

Start at: 2018-04-17 17:24:15
End at: 2018-04-17 17:24:45
Local clock offset: -6.695 ms
Remote clock offset: -5.984 ms

Below is generated by plot.py at 2018-04-17 20:42:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 48.61 Mbit/s
95th percentile per-packet one-way delay: 11.806 ms
Loss rate: 8.37%
-- Flow 1:
Average throughput: 27.11 Mbit/s
95th percentile per-packet one-way delay: 10.191 ms
Loss rate: 7.92%
-- Flow 2:
Average throughput: 19.56 Mbit/s
95th percentile per-packet one-way delay: 10.282 ms
Loss rate: 8.89%
-- Flow 3:
Average throughput: 25.80 Mbit/s
95th percentile per-packet one-way delay: 12.136 ms
Loss rate: 9.01%

Run 3: Report of PCC-Vivace — Data Link

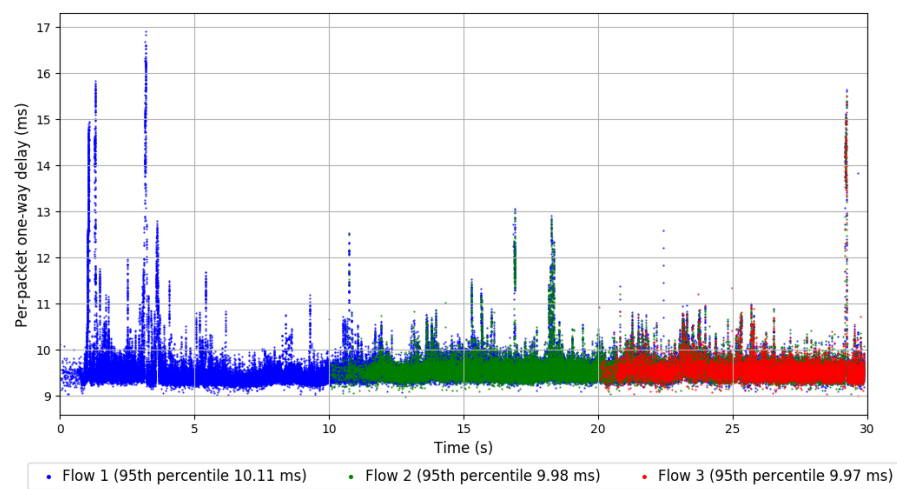
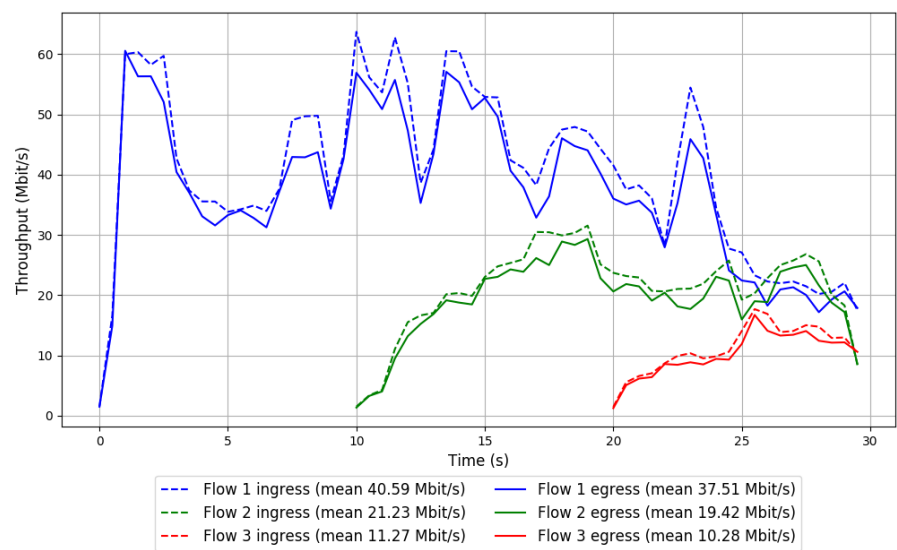


Run 4: Statistics of PCC-Vivace

Start at: 2018-04-17 17:44:07
End at: 2018-04-17 17:44:37
Local clock offset: -9.271 ms
Remote clock offset: -4.771 ms

Below is generated by plot.py at 2018-04-17 20:42:57
Datalink statistics
-- Total of 3 flows:
Average throughput: 53.81 Mbit/s
95th percentile per-packet one-way delay: 10.062 ms
Loss rate: 7.90%
-- Flow 1:
Average throughput: 37.51 Mbit/s
95th percentile per-packet one-way delay: 10.108 ms
Loss rate: 7.60%
-- Flow 2:
Average throughput: 19.42 Mbit/s
95th percentile per-packet one-way delay: 9.979 ms
Loss rate: 8.55%
-- Flow 3:
Average throughput: 10.28 Mbit/s
95th percentile per-packet one-way delay: 9.969 ms
Loss rate: 8.75%

Run 4: Report of PCC-Vivace — Data Link

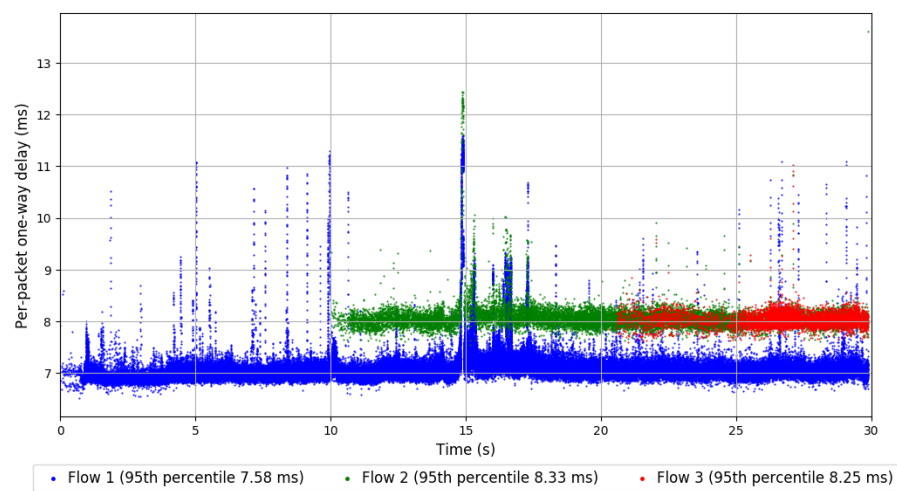
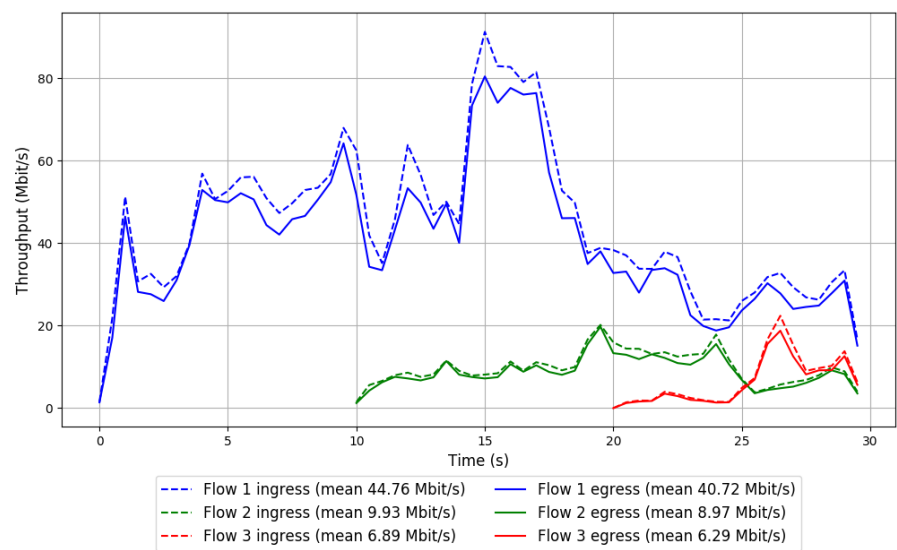


Run 5: Statistics of PCC-Vivace

Start at: 2018-04-17 18:04:00
End at: 2018-04-17 18:04:30
Local clock offset: -6.029 ms
Remote clock offset: -5.482 ms

```
# Below is generated by plot.py at 2018-04-17 20:42:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 48.70 Mbit/s
95th percentile per-packet one-way delay: 8.173 ms
Loss rate: 9.19%
-- Flow 1:
Average throughput: 40.72 Mbit/s
95th percentile per-packet one-way delay: 7.585 ms
Loss rate: 9.04%
-- Flow 2:
Average throughput: 8.97 Mbit/s
95th percentile per-packet one-way delay: 8.326 ms
Loss rate: 9.60%
-- Flow 3:
Average throughput: 6.29 Mbit/s
95th percentile per-packet one-way delay: 8.248 ms
Loss rate: 11.10%
```

Run 5: Report of PCC-Vivace — Data Link

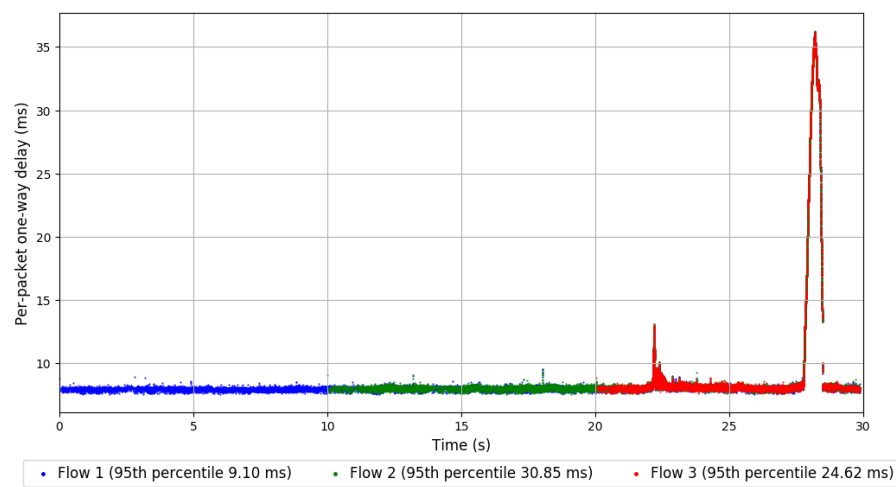
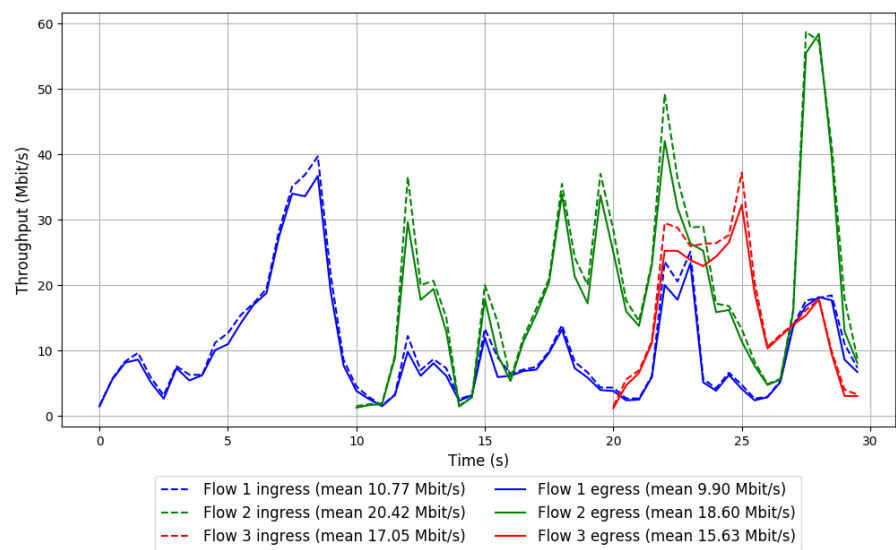


Run 6: Statistics of PCC-Vivace

Start at: 2018-04-17 18:24:16
End at: 2018-04-17 18:24:46
Local clock offset: -3.914 ms
Remote clock offset: -5.144 ms

Below is generated by plot.py at 2018-04-17 20:42:57
Datalink statistics
-- Total of 3 flows:
Average throughput: 27.43 Mbit/s
95th percentile per-packet one-way delay: 24.394 ms
Loss rate: 8.51%
-- Flow 1:
Average throughput: 9.90 Mbit/s
95th percentile per-packet one-way delay: 9.099 ms
Loss rate: 8.05%
-- Flow 2:
Average throughput: 18.60 Mbit/s
95th percentile per-packet one-way delay: 30.849 ms
Loss rate: 8.95%
-- Flow 3:
Average throughput: 15.63 Mbit/s
95th percentile per-packet one-way delay: 24.618 ms
Loss rate: 8.33%

Run 6: Report of PCC-Vivace — Data Link

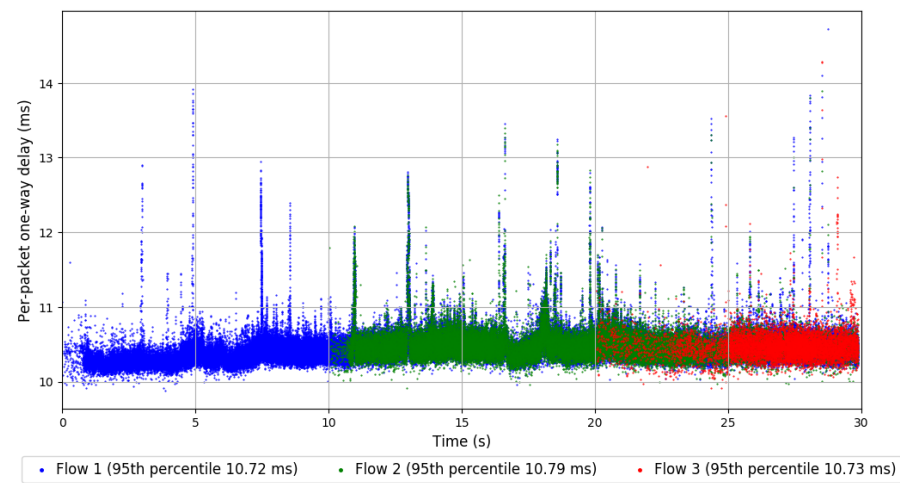
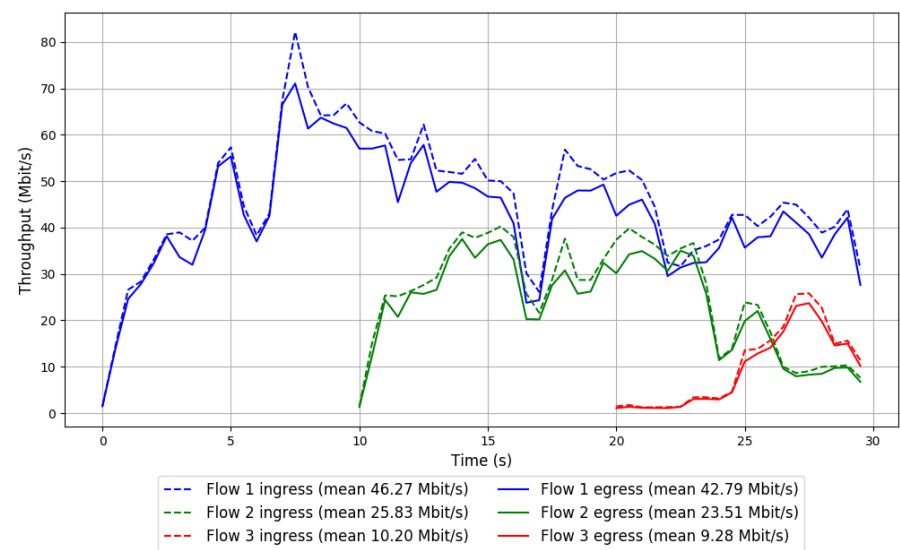


Run 7: Statistics of PCC-Vivace

Start at: 2018-04-17 18:44:25
End at: 2018-04-17 18:44:55
Local clock offset: -5.323 ms
Remote clock offset: -4.761 ms

Below is generated by plot.py at 2018-04-17 20:43:12
Datalink statistics
-- Total of 3 flows:
Average throughput: 61.48 Mbit/s
95th percentile per-packet one-way delay: 10.741 ms
Loss rate: 7.97%
-- Flow 1:
Average throughput: 42.79 Mbit/s
95th percentile per-packet one-way delay: 10.723 ms
Loss rate: 7.53%
-- Flow 2:
Average throughput: 23.51 Mbit/s
95th percentile per-packet one-way delay: 10.787 ms
Loss rate: 8.98%
-- Flow 3:
Average throughput: 9.28 Mbit/s
95th percentile per-packet one-way delay: 10.727 ms
Loss rate: 9.03%

Run 7: Report of PCC-Vivace — Data Link

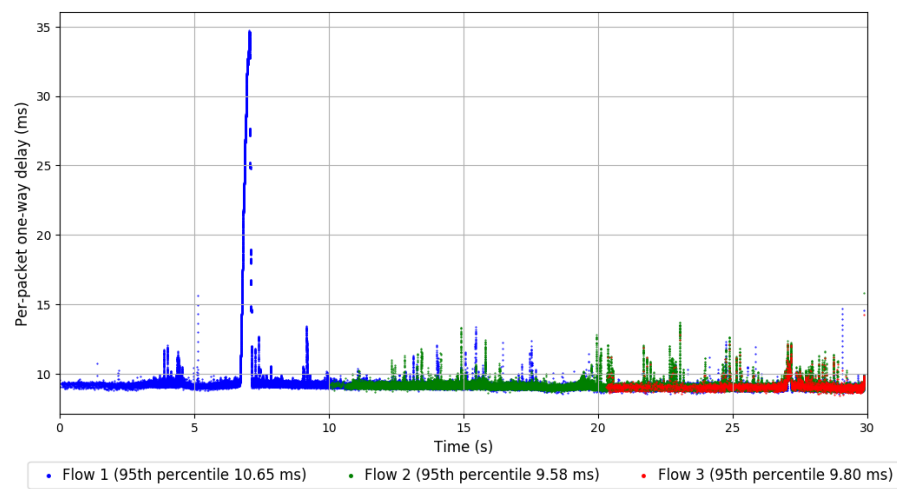
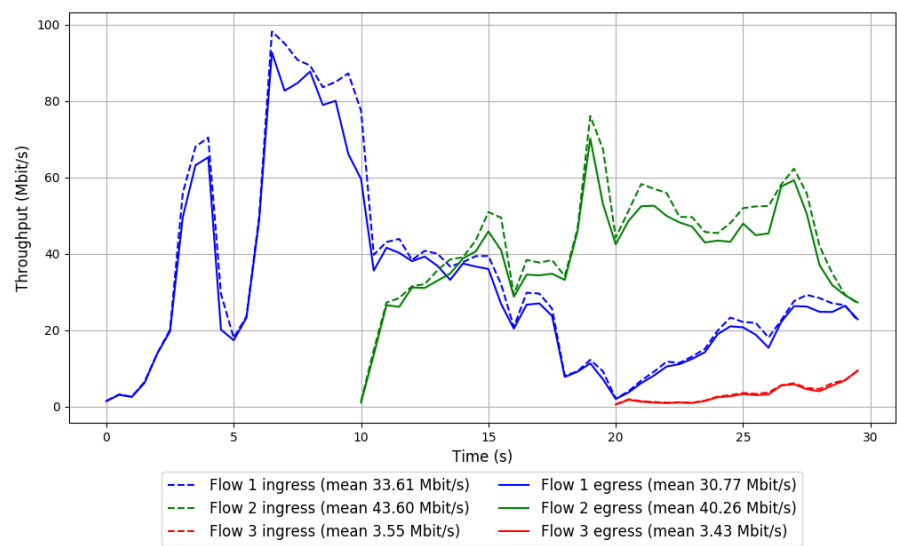


Run 8: Statistics of PCC-Vivace

Start at: 2018-04-17 19:04:11
End at: 2018-04-17 19:04:41
Local clock offset: -2.789 ms
Remote clock offset: -0.684 ms

Below is generated by plot.py at 2018-04-17 20:43:12
Datalink statistics
-- Total of 3 flows:
Average throughput: 58.64 Mbit/s
95th percentile per-packet one-way delay: 9.880 ms
Loss rate: 8.03%
-- Flow 1:
Average throughput: 30.77 Mbit/s
95th percentile per-packet one-way delay: 10.648 ms
Loss rate: 8.44%
-- Flow 2:
Average throughput: 40.26 Mbit/s
95th percentile per-packet one-way delay: 9.582 ms
Loss rate: 7.63%
-- Flow 3:
Average throughput: 3.43 Mbit/s
95th percentile per-packet one-way delay: 9.802 ms
Loss rate: 5.95%

Run 8: Report of PCC-Vivace — Data Link



Run 9: Statistics of PCC-Vivace

Start at: 2018-04-17 19:24:13

End at: 2018-04-17 19:24:43

Local clock offset: -7.372 ms

Remote clock offset: 0.691 ms

Below is generated by plot.py at 2018-04-17 20:43:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 57.99 Mbit/s

95th percentile per-packet one-way delay: 15.882 ms

Loss rate: 7.40%

-- Flow 1:

Average throughput: 43.43 Mbit/s

95th percentile per-packet one-way delay: 13.669 ms

Loss rate: 7.42%

-- Flow 2:

Average throughput: 16.94 Mbit/s

95th percentile per-packet one-way delay: 19.677 ms

Loss rate: 7.12%

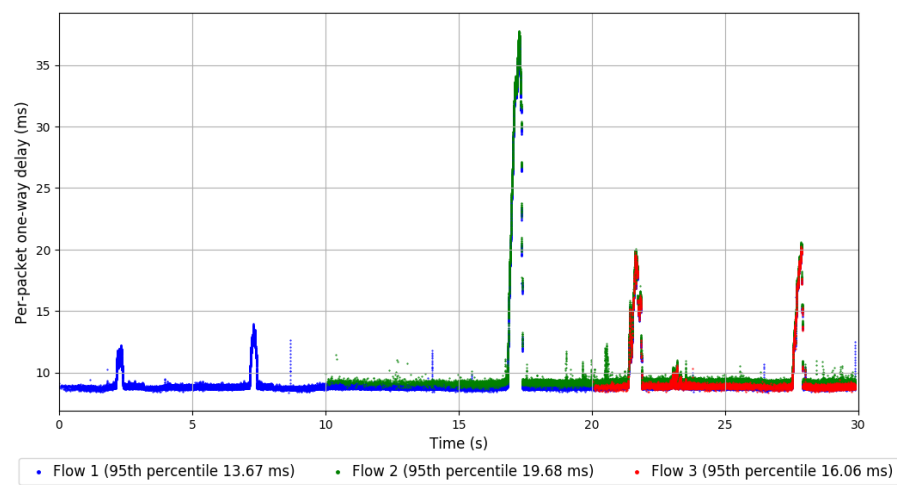
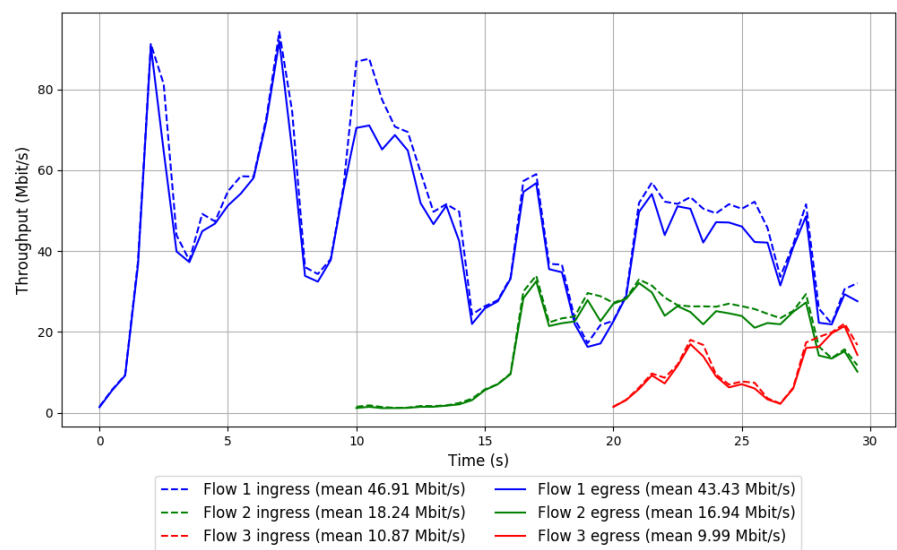
-- Flow 3:

Average throughput: 9.99 Mbit/s

95th percentile per-packet one-way delay: 16.063 ms

Loss rate: 8.09%

Run 9: Report of PCC-Vivace — Data Link



Run 10: Statistics of PCC-Vivace

Start at: 2018-04-17 19:44:16

End at: 2018-04-17 19:44:46

Local clock offset: -7.402 ms

Remote clock offset: 1.368 ms

Below is generated by plot.py at 2018-04-17 20:43:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 65.42 Mbit/s

95th percentile per-packet one-way delay: 10.996 ms

Loss rate: 7.70%

-- Flow 1:

Average throughput: 45.59 Mbit/s

95th percentile per-packet one-way delay: 10.606 ms

Loss rate: 7.35%

-- Flow 2:

Average throughput: 19.24 Mbit/s

95th percentile per-packet one-way delay: 10.879 ms

Loss rate: 8.53%

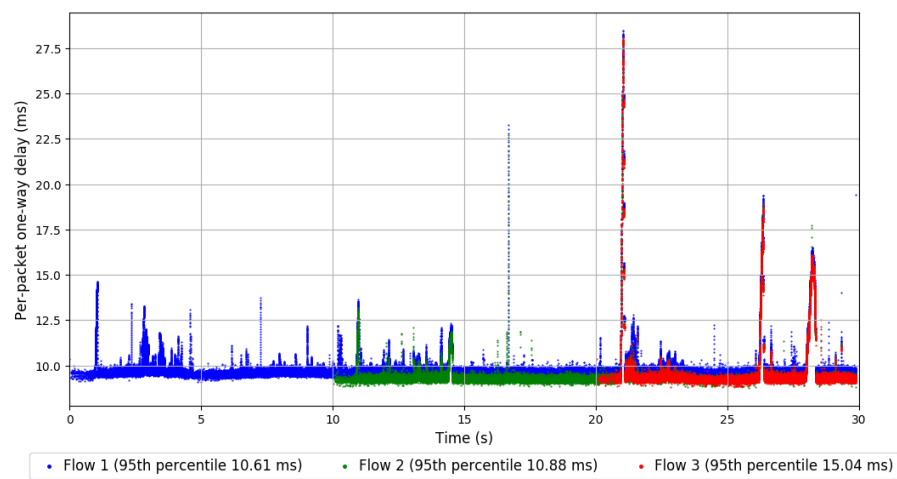
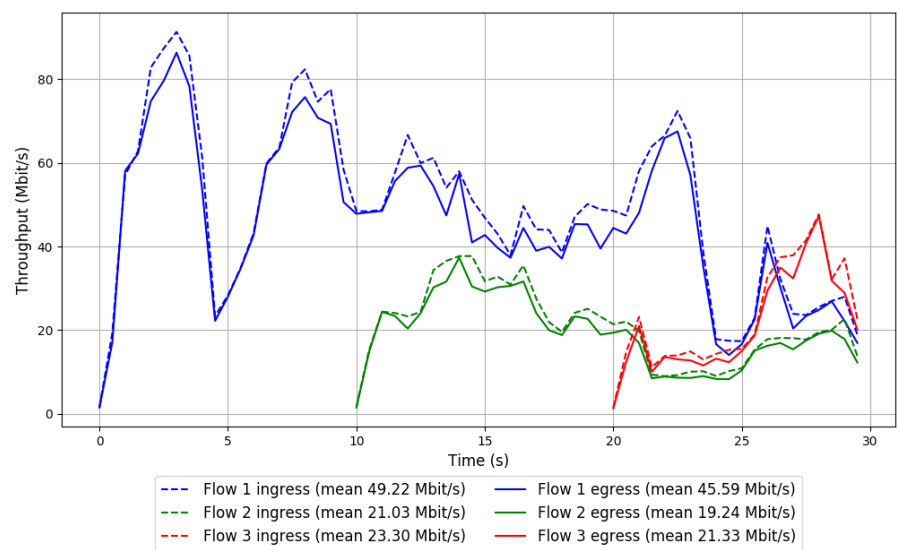
-- Flow 3:

Average throughput: 21.33 Mbit/s

95th percentile per-packet one-way delay: 15.036 ms

Loss rate: 8.46%

Run 10: Report of PCC-Vivace — Data Link



Run 1: Statistics of PCC-Expr

Start at: 2018-04-17 16:37:44
End at: 2018-04-17 16:38:14
Local clock offset: -6.222 ms
Remote clock offset: -10.178 ms

Run 1: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 2: Statistics of PCC-Expr

Start at: 2018-04-17 16:58:17
End at: 2018-04-17 16:58:47
Local clock offset: -3.098 ms
Remote clock offset: -11.079 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 17:18:20

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

Local clock offset: -2.713 ms

Remote clock offset: -6.08 ms

Run 3: Report of PCC-Expr — Data Link

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Run 4: Statistics of PCC-Expr

Start at: 2018-04-17 17:38:14

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

Local clock offset: -7.752 ms

Remote clock offset: -4.439 ms

Run 4: Report of PCC-Expr — Data Link

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Run 5: Statistics of PCC-Expr

Start at: 2018-04-17 17:58:13

End at: 2018-04-17 17:58:43

Local clock offset: -7.648 ms

Remote clock offset: -5.677 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 18:18:17

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

Local clock offset: -5.125 ms

Remote clock offset: -5.282 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 18:38:21

End at: 2018-04-17 18:38:51

Local clock offset: -6.42 ms

Remote clock offset: -5.412 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 18:58:24

End at: 2018-04-17 18:58:54

Local clock offset: -2.216 ms

Remote clock offset: -1.425 ms

Run 8: Report of PCC-Expr — Data Link

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Figure is missing

Run 9: Statistics of PCC-Expr

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

End at: 2018-04-17 19:18:55

Local clock offset: -7.457 ms

Remote clock offset: -0.234 ms

Run 9: Report of PCC-Expr — Data Link

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Figure is missing

Run 10: Statistics of PCC-Expr

Start at: 2018-04-17 19:38:16

End at: 2018-04-17 19:38:46

Local clock offset: -9.329 ms

Remote clock offset: 0.751 ms

Run 10: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing