

Pantheon Report

Generated at 2018-04-25 01:38:39 (UTC).

Data path: Mexico Ethernet (*remote*) → AWS California 2 Ethernet (*local*).

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**).

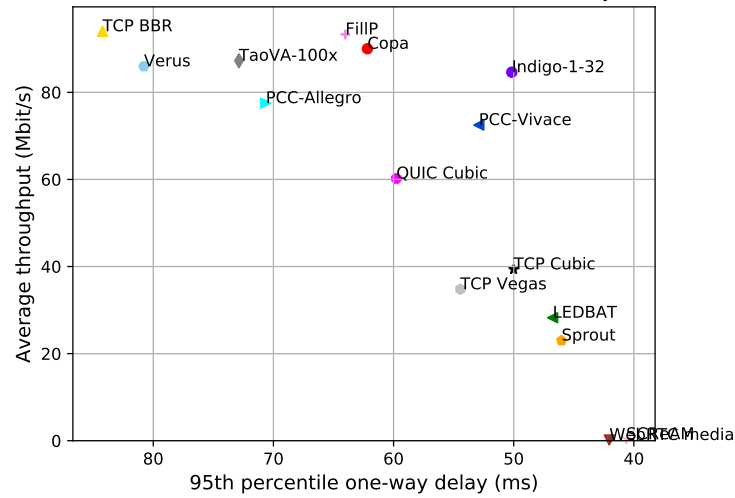
NTP offsets were measured against `time.stanford.edu` and have been applied to correct the timestamps in logs.

Git summary:

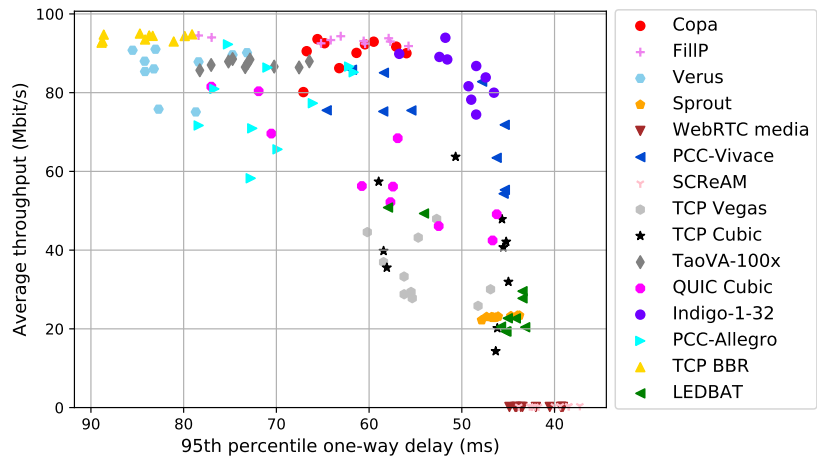
```
branch: master @ 114e807ac1bad7b85168ceb1f8a969063ee6c12c
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ 11f8c46a2bf1dc797253db7e8ca04076272b2a44
third_party/genericCC @ d223989828276fa83a807da6e0341dc0c7b89aec
third_party/indigo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

third_party/webrtc @ f271183af822eee5d0031620f4bebf38aedc5581

test from Mexico Ethernet to AWS California 2 Ethernet, 10 runs of 30s each per scheme
3 flows with 10s interval between flows (mean of all runs by scheme)



test from Mexico Ethernet to AWS California 2 Ethernet, 10 runs of 30s each per scheme
3 flows with 10s interval between flows



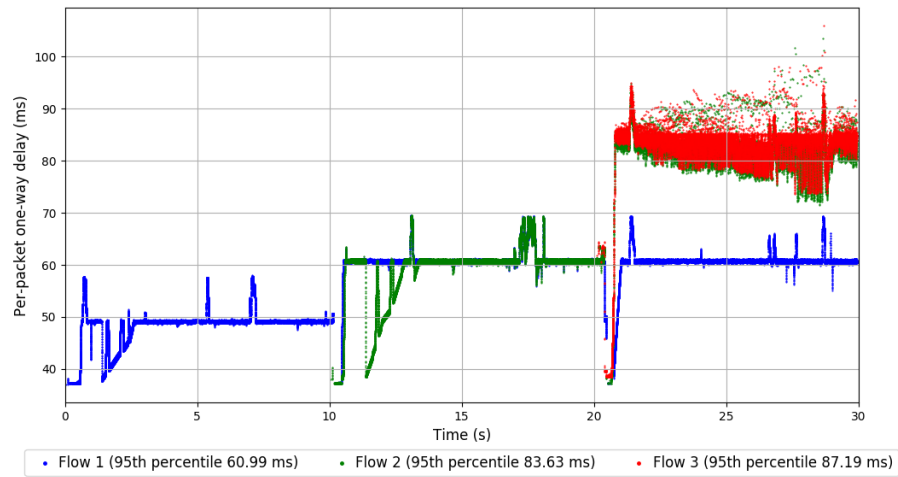
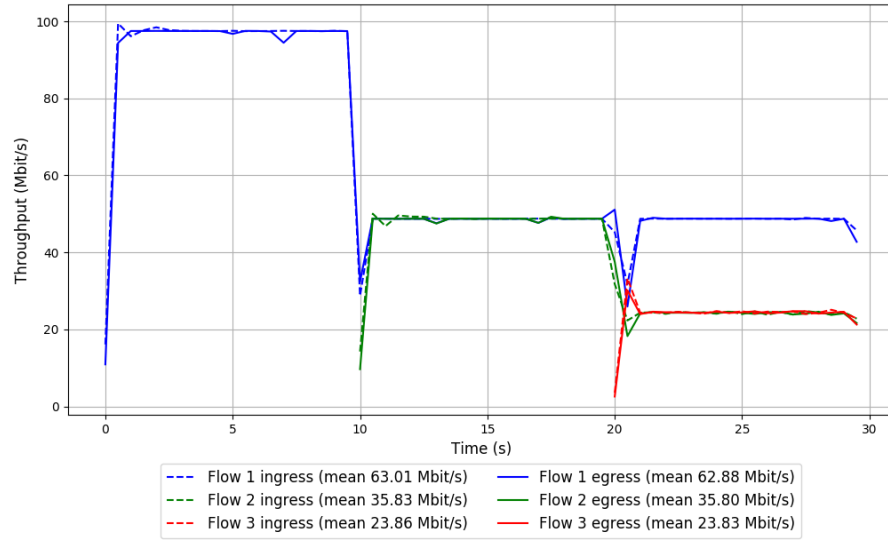
[illegible]

Run 1: Statistics of TCP BBR

Start at: 2018-04-24 17:18:03
End at: 2018-04-24 17:18:33
Local clock offset: 0.998 ms
Remote clock offset: -0.955 ms

Below is generated by plot.py at 2018-04-25 01:18:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 94.53 Mbit/s
95th percentile per-packet one-way delay: 83.712 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 62.88 Mbit/s
95th percentile per-packet one-way delay: 60.991 ms
Loss rate: 0.43%
-- Flow 2:
Average throughput: 35.80 Mbit/s
95th percentile per-packet one-way delay: 83.629 ms
Loss rate: 0.55%
-- Flow 3:
Average throughput: 23.83 Mbit/s
95th percentile per-packet one-way delay: 87.191 ms
Loss rate: 1.26%

Run 1: Report of TCP BBR — Data Link

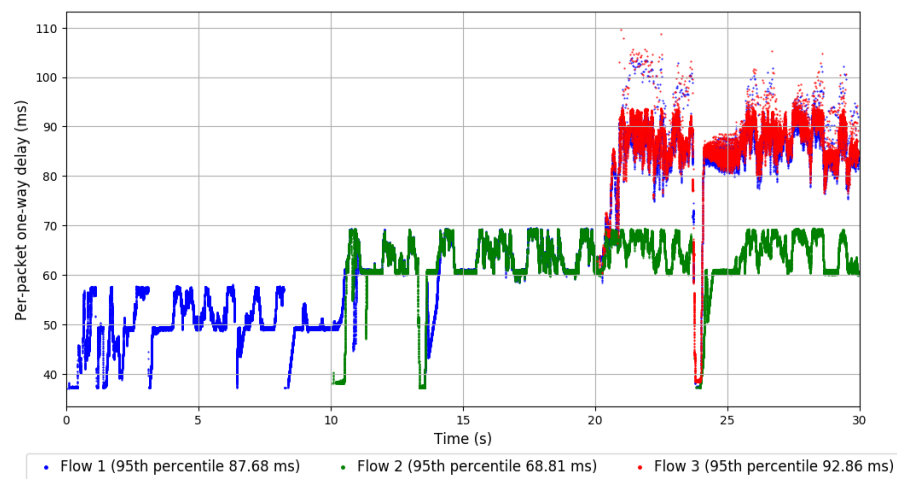
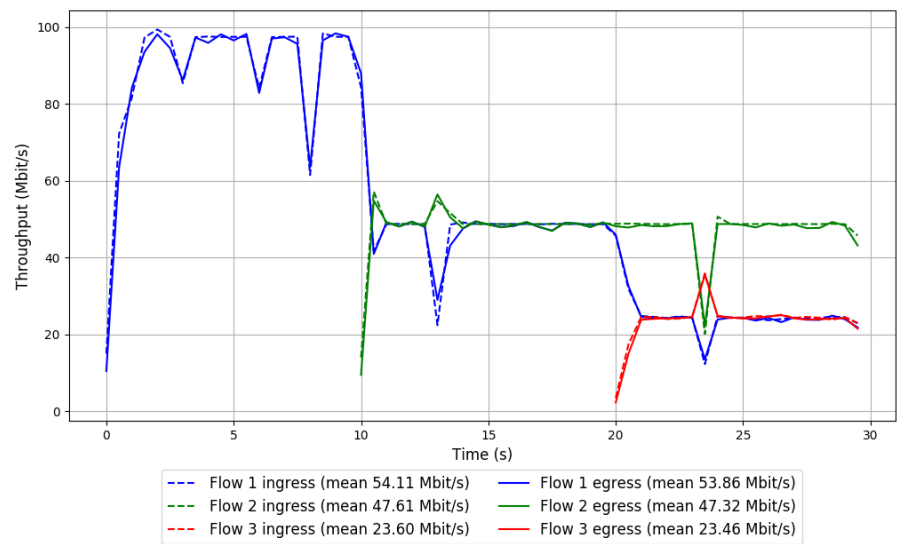


Run 2: Statistics of TCP BBR

Start at: 2018-04-24 17:41:45
End at: 2018-04-24 17:42:15
Local clock offset: 1.242 ms
Remote clock offset: -0.419 ms

Below is generated by plot.py at 2018-04-25 01:18:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.07 Mbit/s
95th percentile per-packet one-way delay: 88.756 ms
Loss rate: 0.92%
-- Flow 1:
Average throughput: 53.86 Mbit/s
95th percentile per-packet one-way delay: 87.677 ms
Loss rate: 0.76%
-- Flow 2:
Average throughput: 47.32 Mbit/s
95th percentile per-packet one-way delay: 68.811 ms
Loss rate: 1.00%
-- Flow 3:
Average throughput: 23.46 Mbit/s
95th percentile per-packet one-way delay: 92.863 ms
Loss rate: 1.74%

Run 2: Report of TCP BBR — Data Link

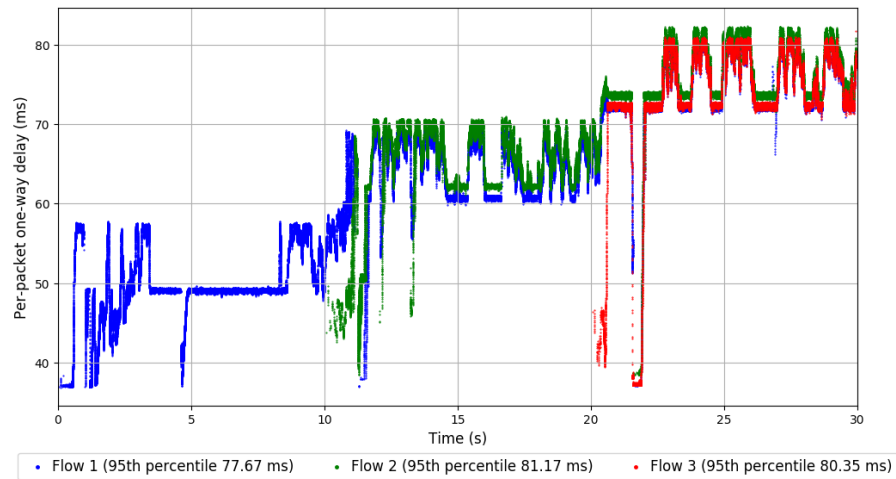
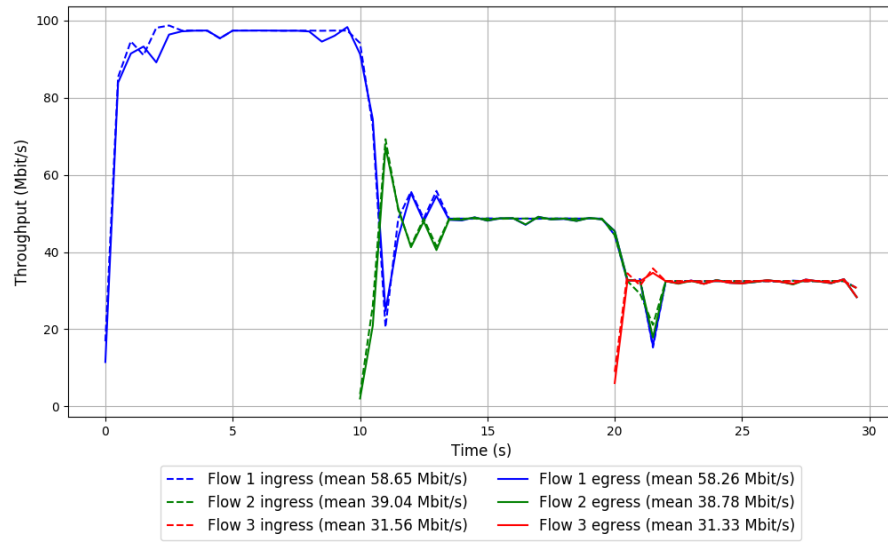


Run 3: Statistics of TCP BBR

Start at: 2018-04-24 18:05:41
End at: 2018-04-24 18:06:11
Local clock offset: 1.484 ms
Remote clock offset: -0.233 ms

Below is generated by plot.py at 2018-04-25 01:18:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 94.39 Mbit/s
95th percentile per-packet one-way delay: 79.884 ms
Loss rate: 1.02%
-- Flow 1:
Average throughput: 58.26 Mbit/s
95th percentile per-packet one-way delay: 77.675 ms
Loss rate: 0.93%
-- Flow 2:
Average throughput: 38.78 Mbit/s
95th percentile per-packet one-way delay: 81.174 ms
Loss rate: 1.04%
-- Flow 3:
Average throughput: 31.33 Mbit/s
95th percentile per-packet one-way delay: 80.350 ms
Loss rate: 1.47%

Run 3: Report of TCP BBR — Data Link

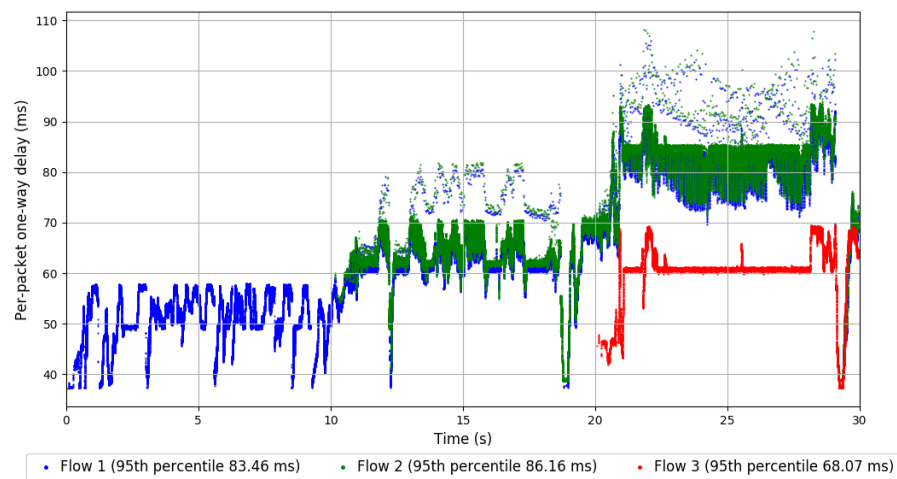
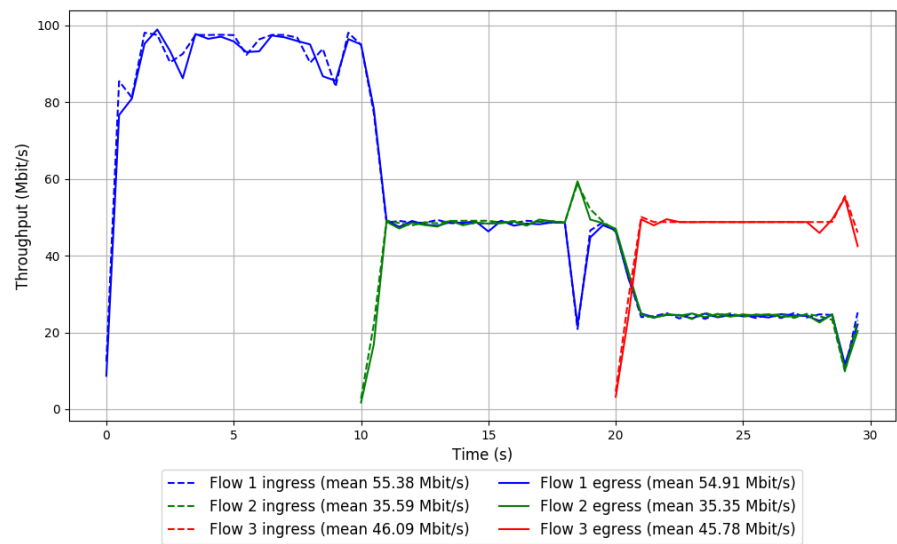


Run 4: Statistics of TCP BBR

Start at: 2018-04-24 18:30:00
End at: 2018-04-24 18:30:30
Local clock offset: 0.816 ms
Remote clock offset: -0.257 ms

Below is generated by plot.py at 2018-04-25 01:18:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.51 Mbit/s
95th percentile per-packet one-way delay: 84.160 ms
Loss rate: 1.14%
-- Flow 1:
Average throughput: 54.91 Mbit/s
95th percentile per-packet one-way delay: 83.463 ms
Loss rate: 1.07%
-- Flow 2:
Average throughput: 35.35 Mbit/s
95th percentile per-packet one-way delay: 86.160 ms
Loss rate: 1.09%
-- Flow 3:
Average throughput: 45.78 Mbit/s
95th percentile per-packet one-way delay: 68.068 ms
Loss rate: 1.43%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-04-24 18:54:33

End at: 2018-04-24 18:55:03

Local clock offset: 0.282 ms

Remote clock offset: 0.922 ms

Below is generated by plot.py at 2018-04-25 01:18:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.00 Mbit/s

95th percentile per-packet one-way delay: 81.074 ms

Loss rate: 1.53%

-- Flow 1:

Average throughput: 56.62 Mbit/s

95th percentile per-packet one-way delay: 79.492 ms

Loss rate: 1.38%

-- Flow 2:

Average throughput: 39.29 Mbit/s

95th percentile per-packet one-way delay: 81.400 ms

Loss rate: 1.66%

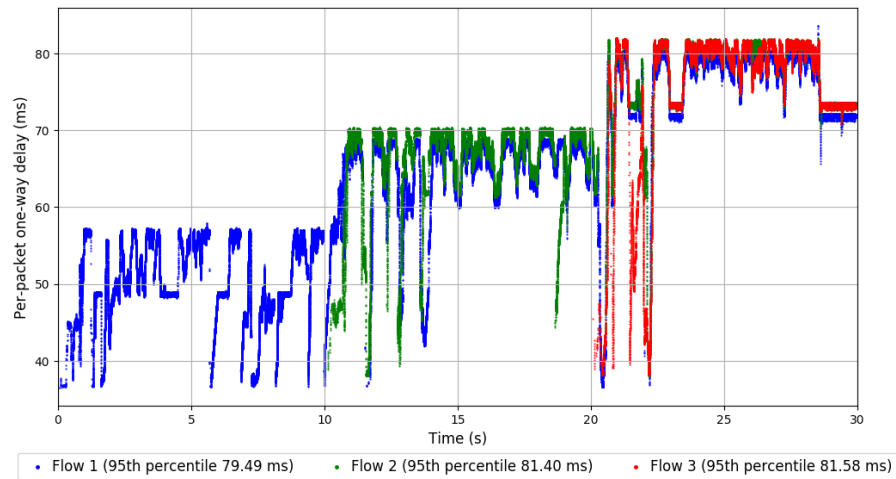
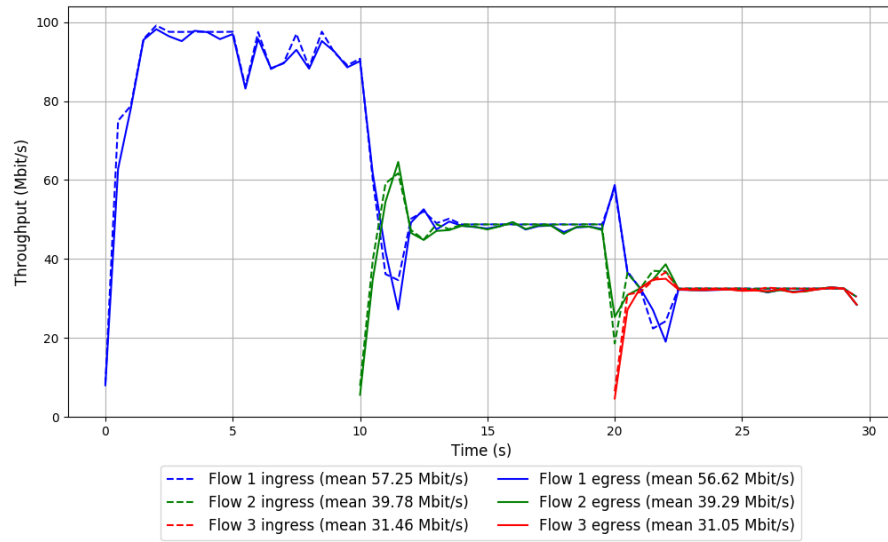
-- Flow 3:

Average throughput: 31.05 Mbit/s

95th percentile per-packet one-way delay: 81.585 ms

Loss rate: 2.06%

Run 5: Report of TCP BBR — Data Link

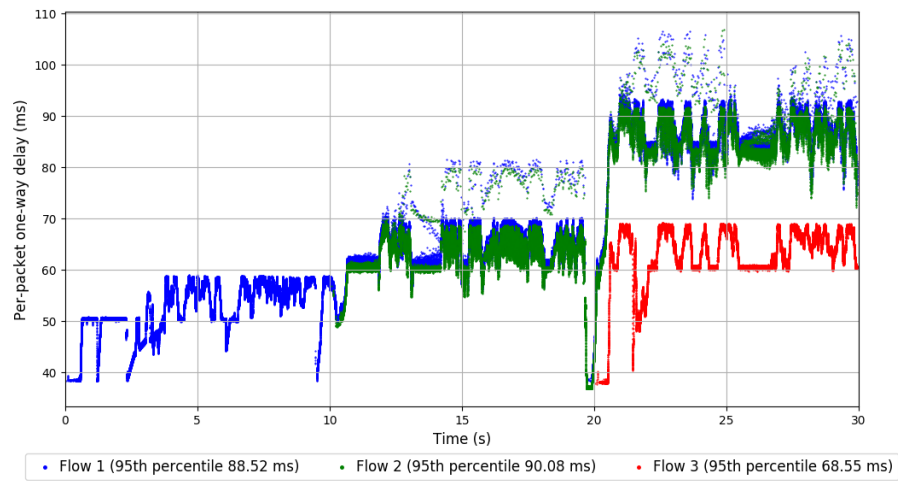
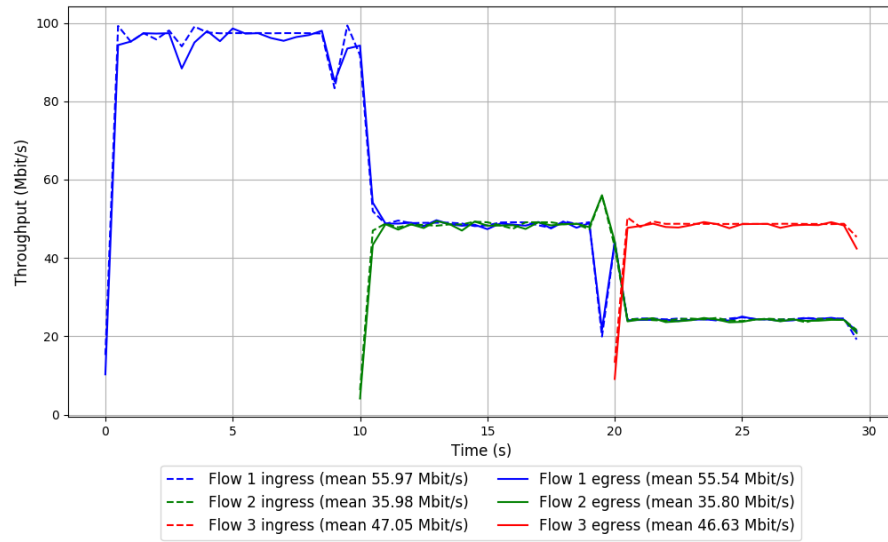


Run 6: Statistics of TCP BBR

Start at: 2018-04-24 19:19:07
End at: 2018-04-24 19:19:37
Local clock offset: 0.076 ms
Remote clock offset: -0.638 ms

Below is generated by plot.py at 2018-04-25 01:18:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 94.75 Mbit/s
95th percentile per-packet one-way delay: 88.618 ms
Loss rate: 0.92%
-- Flow 1:
Average throughput: 55.54 Mbit/s
95th percentile per-packet one-way delay: 88.518 ms
Loss rate: 0.78%
-- Flow 2:
Average throughput: 35.80 Mbit/s
95th percentile per-packet one-way delay: 90.077 ms
Loss rate: 0.83%
-- Flow 3:
Average throughput: 46.63 Mbit/s
95th percentile per-packet one-way delay: 68.550 ms
Loss rate: 1.58%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-04-24 19:43:06

End at: 2018-04-24 19:43:36

Local clock offset: 1.348 ms

Remote clock offset: 0.126 ms

Below is generated by plot.py at 2018-04-25 01:19:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.01 Mbit/s

95th percentile per-packet one-way delay: 84.719 ms

Loss rate: 0.63%

-- Flow 1:

Average throughput: 55.59 Mbit/s

95th percentile per-packet one-way delay: 84.681 ms

Loss rate: 0.43%

-- Flow 2:

Average throughput: 35.76 Mbit/s

95th percentile per-packet one-way delay: 86.663 ms

Loss rate: 0.66%

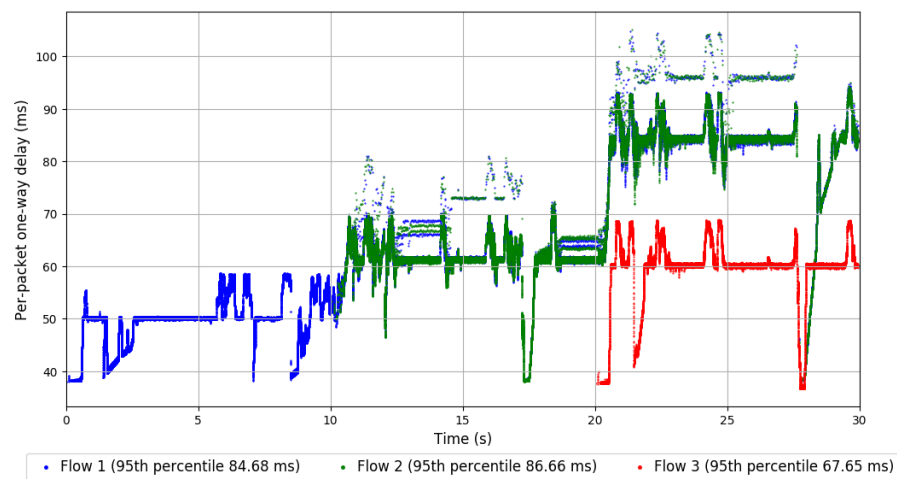
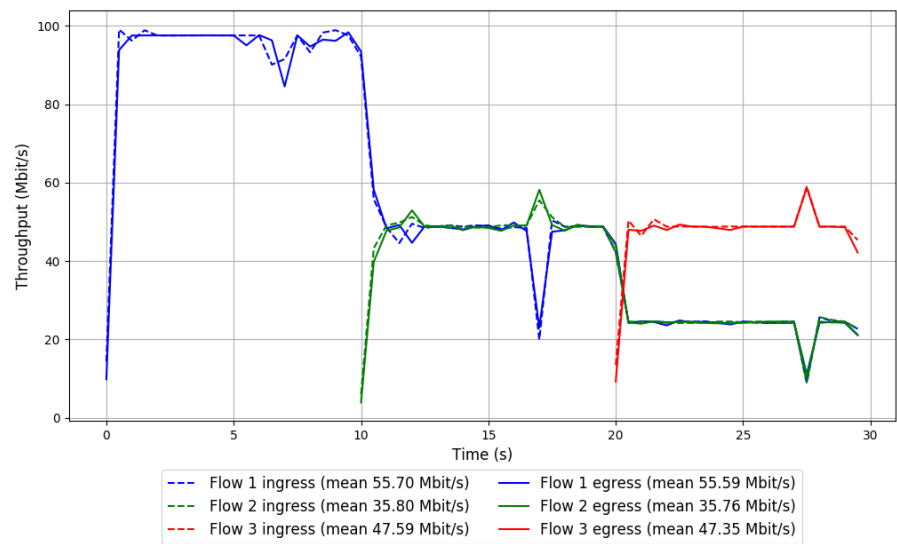
-- Flow 3:

Average throughput: 47.35 Mbit/s

95th percentile per-packet one-way delay: 67.651 ms

Loss rate: 1.28%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-04-24 20:06:36

End at: 2018-04-24 20:07:06

Local clock offset: 1.154 ms

Remote clock offset: 0.702 ms

Below is generated by plot.py at 2018-04-25 01:19:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.82 Mbit/s

95th percentile per-packet one-way delay: 79.094 ms

Loss rate: 0.78%

-- Flow 1:

Average throughput: 57.81 Mbit/s

95th percentile per-packet one-way delay: 74.985 ms

Loss rate: 0.69%

-- Flow 2:

Average throughput: 39.81 Mbit/s

95th percentile per-packet one-way delay: 80.030 ms

Loss rate: 0.77%

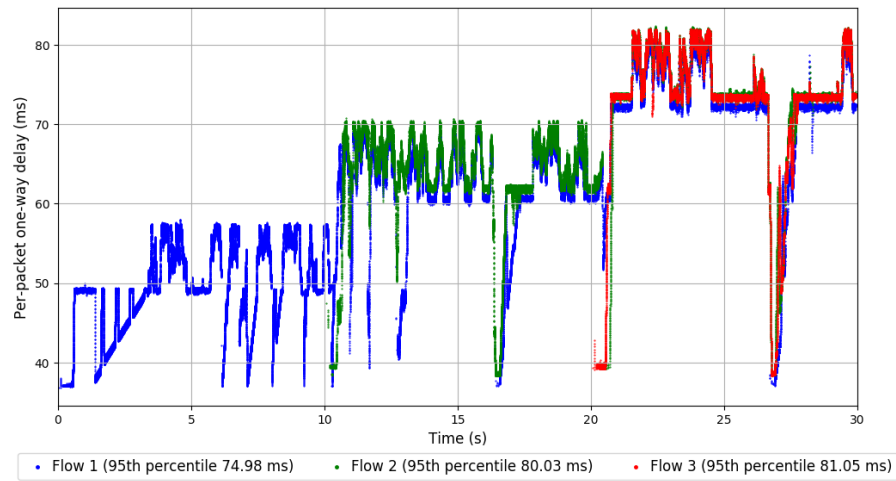
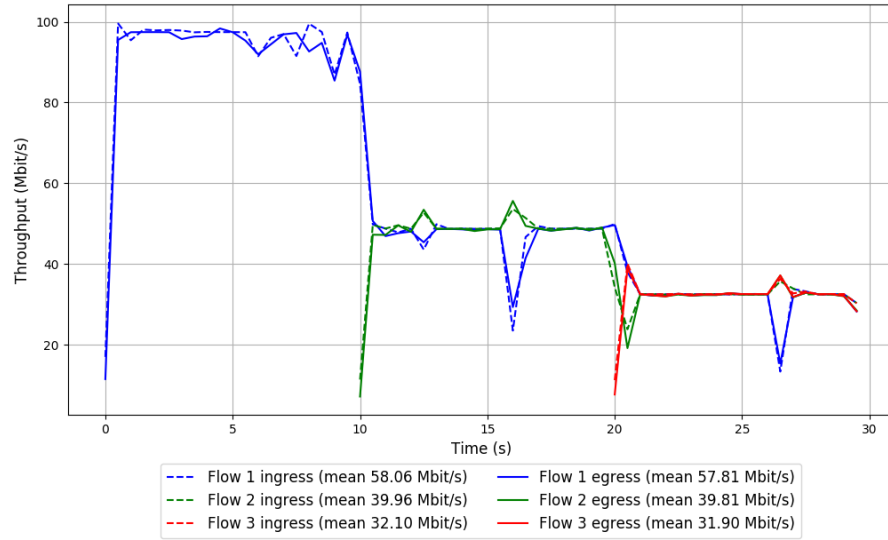
-- Flow 3:

Average throughput: 31.90 Mbit/s

95th percentile per-packet one-way delay: 81.050 ms

Loss rate: 1.34%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-04-24 20:31:08

End at: 2018-04-24 20:31:38

Local clock offset: 1.142 ms

Remote clock offset: 0.366 ms

Below is generated by plot.py at 2018-04-25 01:20:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.43 Mbit/s

95th percentile per-packet one-way delay: 83.340 ms

Loss rate: 0.80%

-- Flow 1:

Average throughput: 55.69 Mbit/s

95th percentile per-packet one-way delay: 82.805 ms

Loss rate: 0.67%

-- Flow 2:

Average throughput: 35.28 Mbit/s

95th percentile per-packet one-way delay: 84.372 ms

Loss rate: 0.83%

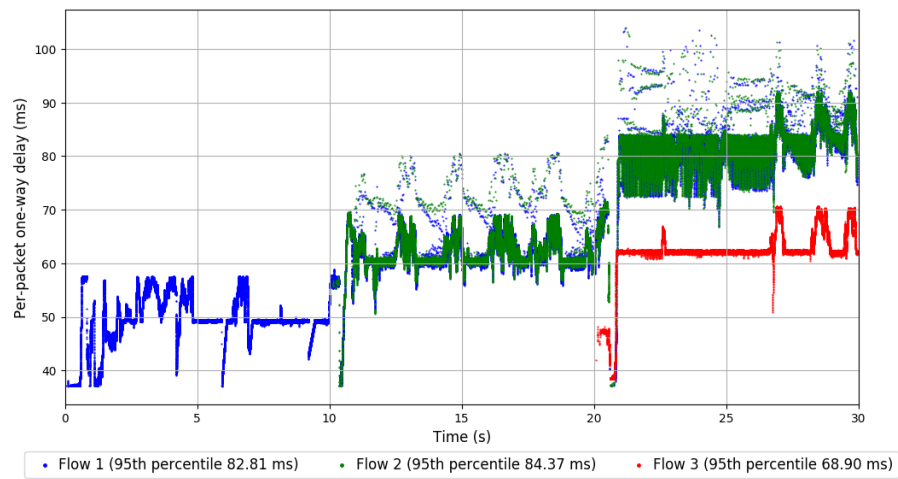
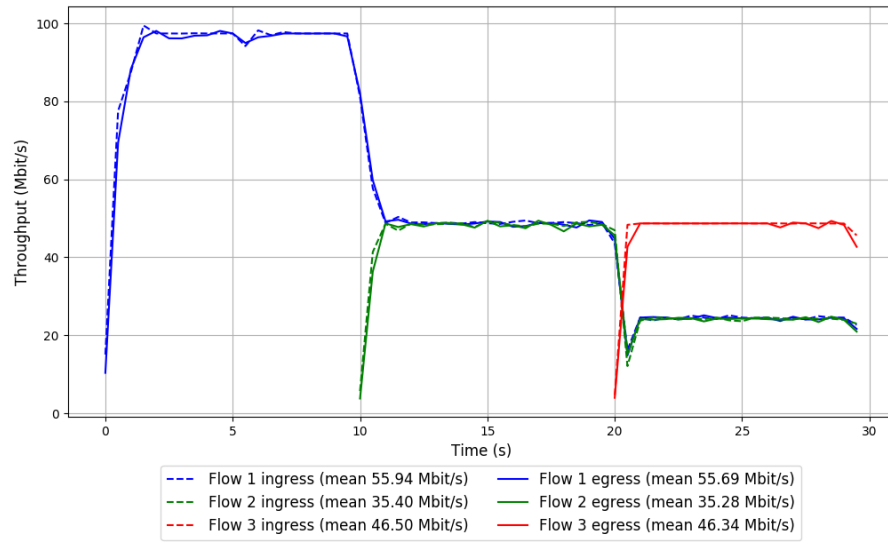
-- Flow 3:

Average throughput: 46.34 Mbit/s

95th percentile per-packet one-way delay: 68.898 ms

Loss rate: 1.18%

Run 9: Report of TCP BBR — Data Link

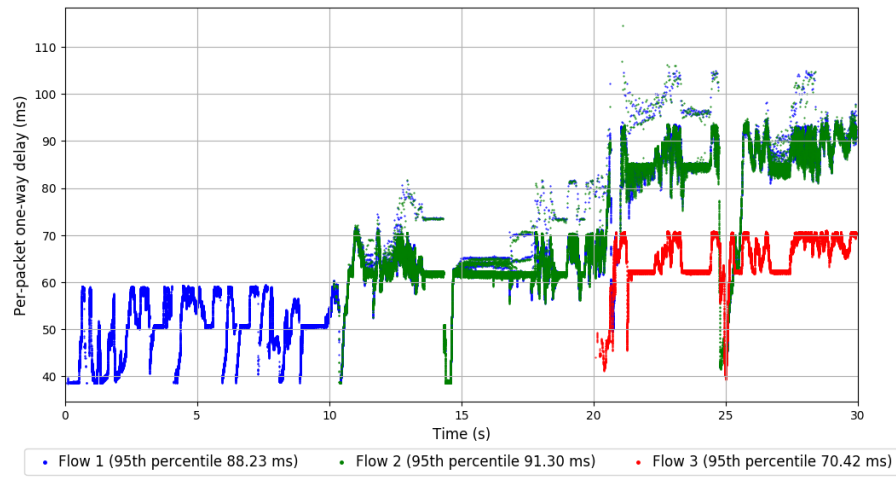
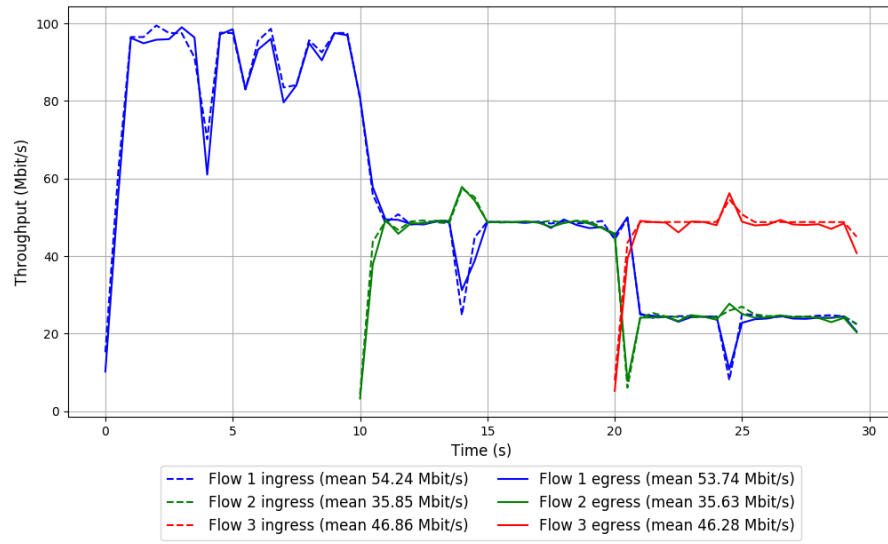


Run 10: Statistics of TCP BBR

Start at: 2018-04-24 20:55:38
End at: 2018-04-24 20:56:08
Local clock offset: 1.298 ms
Remote clock offset: -0.008 ms

Below is generated by plot.py at 2018-04-25 01:20:32
Datalink statistics
-- Total of 3 flows:
Average throughput: 92.70 Mbit/s
95th percentile per-packet one-way delay: 88.849 ms
Loss rate: 1.35%
-- Flow 1:
Average throughput: 53.74 Mbit/s
95th percentile per-packet one-way delay: 88.229 ms
Loss rate: 1.22%
-- Flow 2:
Average throughput: 35.63 Mbit/s
95th percentile per-packet one-way delay: 91.295 ms
Loss rate: 1.14%
-- Flow 3:
Average throughput: 46.28 Mbit/s
95th percentile per-packet one-way delay: 70.415 ms
Loss rate: 2.08%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-04-24 17:02:57

End at: 2018-04-24 17:03:27

Local clock offset: 0.975 ms

Remote clock offset: 0.039 ms

Below is generated by plot.py at 2018-04-25 01:20:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 47.87 Mbit/s

95th percentile per-packet one-way delay: 45.668 ms

Loss rate: 0.46%

-- Flow 1:

Average throughput: 22.87 Mbit/s

95th percentile per-packet one-way delay: 46.568 ms

Loss rate: 0.35%

-- Flow 2:

Average throughput: 26.32 Mbit/s

95th percentile per-packet one-way delay: 45.358 ms

Loss rate: 0.40%

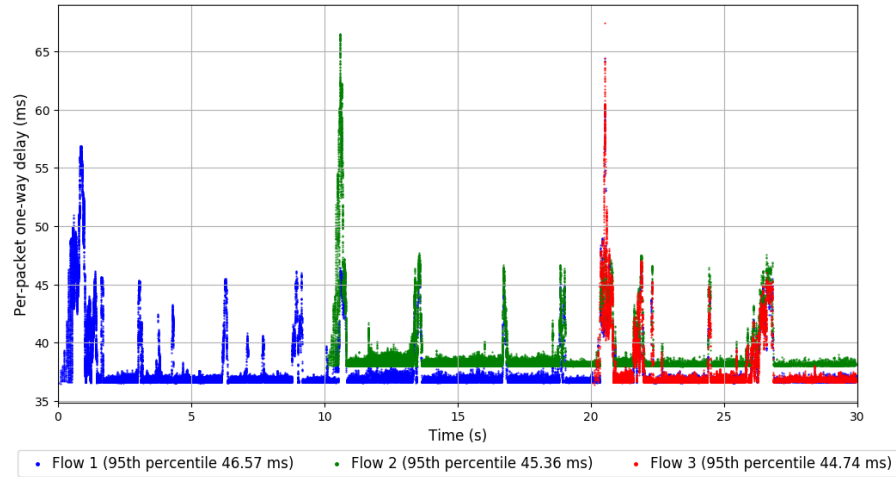
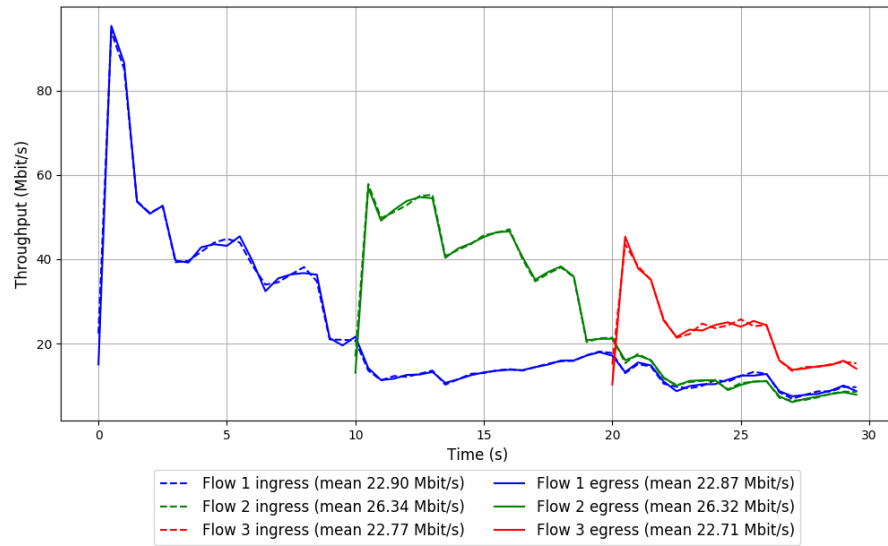
-- Flow 3:

Average throughput: 22.71 Mbit/s

95th percentile per-packet one-way delay: 44.743 ms

Loss rate: 0.94%

Run 1: Report of TCP Cubic — Data Link

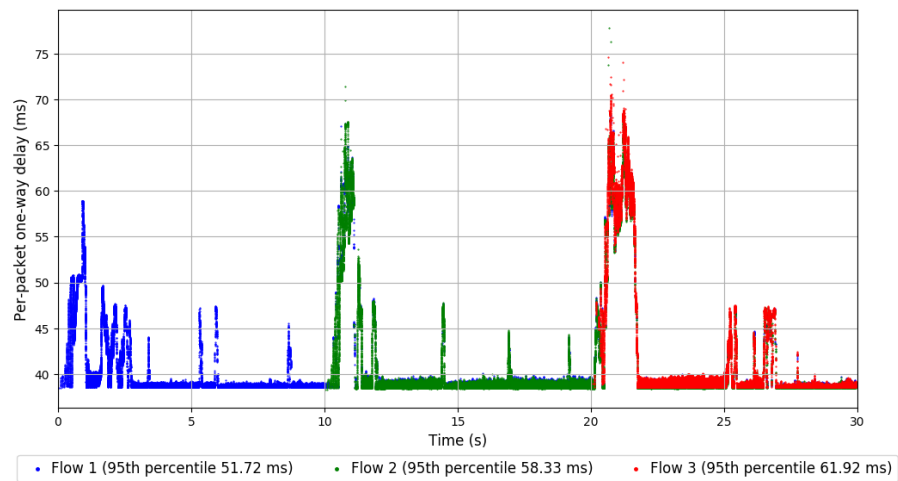
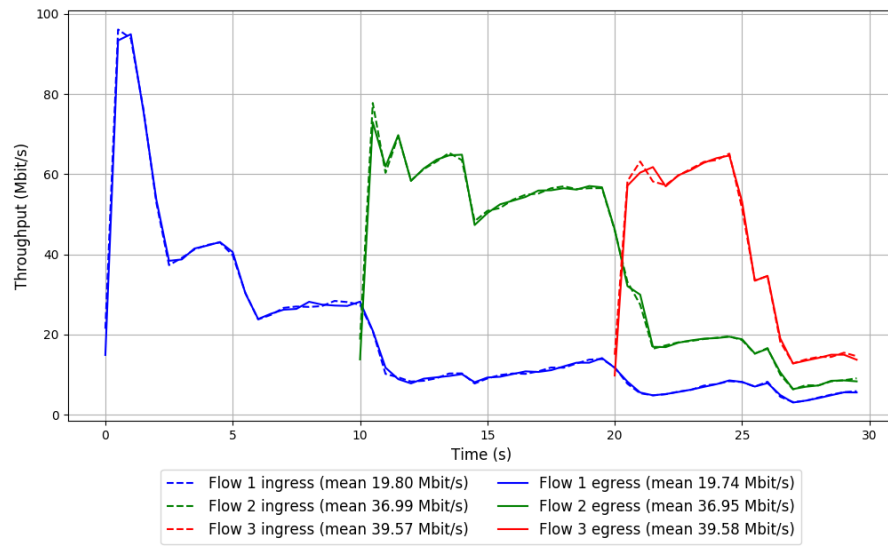


Run 2: Statistics of TCP Cubic

Start at: 2018-04-24 17:26:28
End at: 2018-04-24 17:26:58
Local clock offset: 1.171 ms
Remote clock offset: -0.591 ms

Below is generated by plot.py at 2018-04-25 01:20:32
Datalink statistics
-- Total of 3 flows:
Average throughput: 57.40 Mbit/s
95th percentile per-packet one-way delay: 58.970 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 19.74 Mbit/s
95th percentile per-packet one-way delay: 51.719 ms
Loss rate: 0.55%
-- Flow 2:
Average throughput: 36.95 Mbit/s
95th percentile per-packet one-way delay: 58.329 ms
Loss rate: 0.43%
-- Flow 3:
Average throughput: 39.58 Mbit/s
95th percentile per-packet one-way delay: 61.921 ms
Loss rate: 0.64%

Run 2: Report of TCP Cubic — Data Link

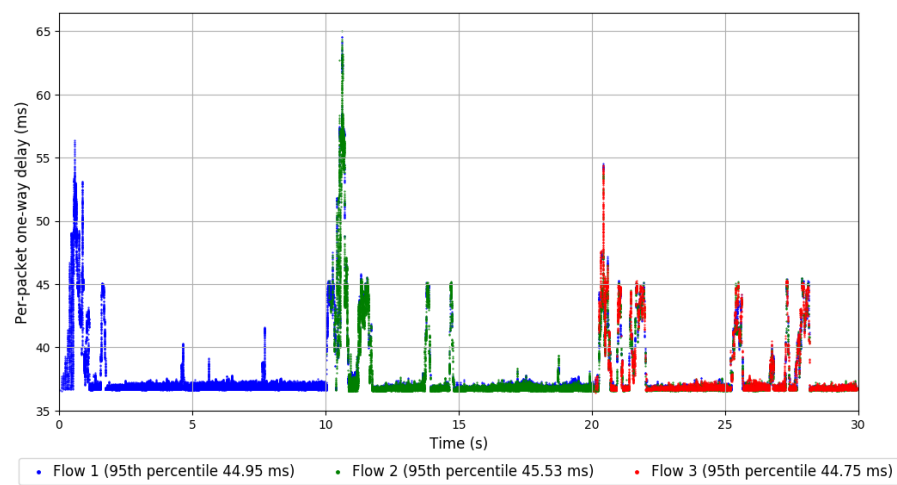
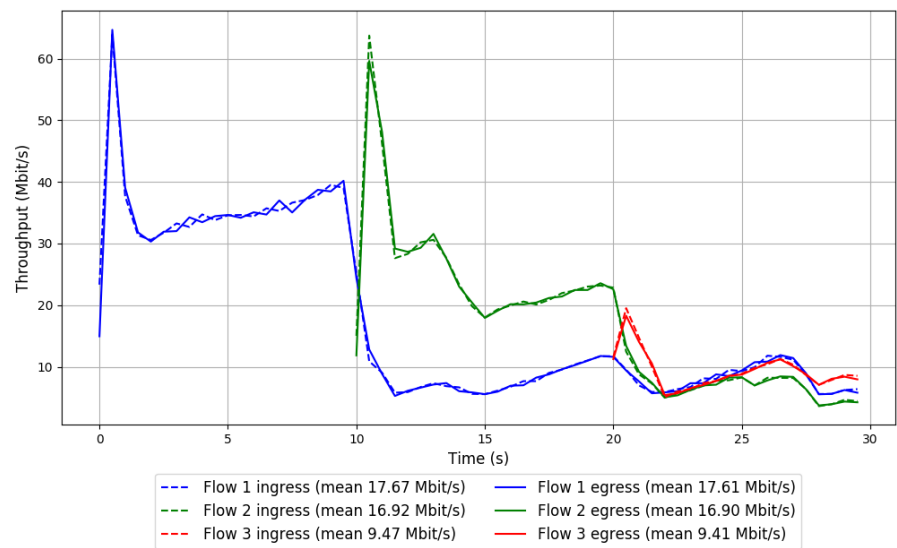


Run 3: Statistics of TCP Cubic

Start at: 2018-04-24 17:50:24
End at: 2018-04-24 17:50:54
Local clock offset: 1.27 ms
Remote clock offset: -0.012 ms

Below is generated by plot.py at 2018-04-25 01:20:32
Datalink statistics
-- Total of 3 flows:
Average throughput: 31.95 Mbit/s
95th percentile per-packet one-way delay: 44.973 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 17.61 Mbit/s
95th percentile per-packet one-way delay: 44.955 ms
Loss rate: 0.59%
-- Flow 2:
Average throughput: 16.90 Mbit/s
95th percentile per-packet one-way delay: 45.532 ms
Loss rate: 0.48%
-- Flow 3:
Average throughput: 9.41 Mbit/s
95th percentile per-packet one-way delay: 44.749 ms
Loss rate: 1.38%

Run 3: Report of TCP Cubic — Data Link

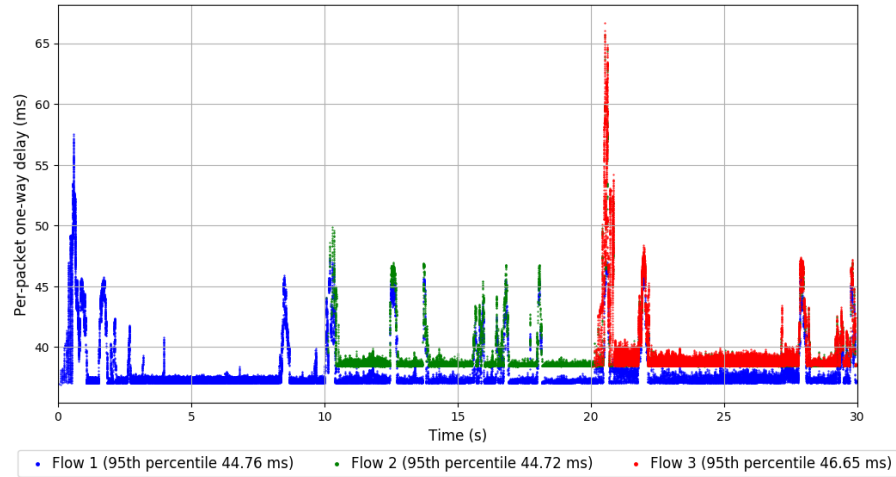
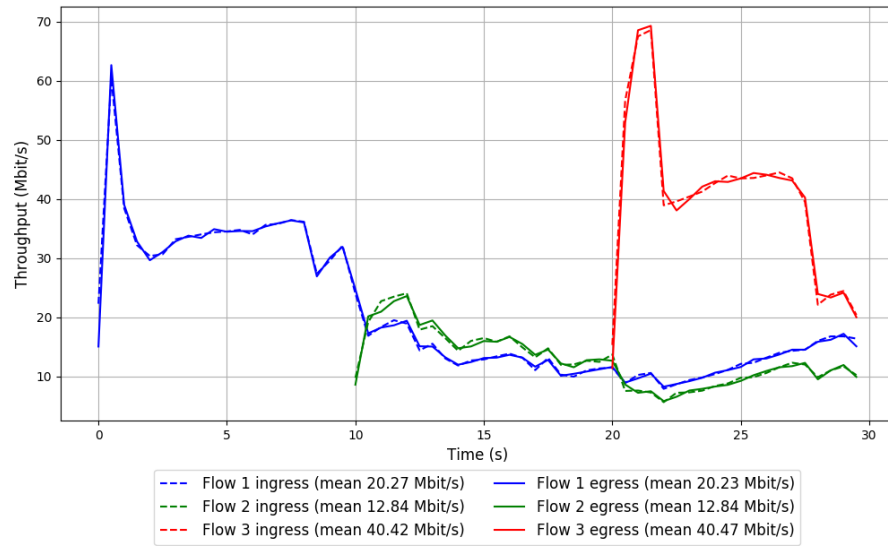


Run 4: Statistics of TCP Cubic

Start at: 2018-04-24 18:14:10
End at: 2018-04-24 18:14:40
Local clock offset: 1.22 ms
Remote clock offset: -0.164 ms

Below is generated by plot.py at 2018-04-25 01:20:32
Datalink statistics
-- Total of 3 flows:
Average throughput: 42.13 Mbit/s
95th percentile per-packet one-way delay: 45.212 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 20.23 Mbit/s
95th percentile per-packet one-way delay: 44.755 ms
Loss rate: 0.46%
-- Flow 2:
Average throughput: 12.84 Mbit/s
95th percentile per-packet one-way delay: 44.719 ms
Loss rate: 0.38%
-- Flow 3:
Average throughput: 40.47 Mbit/s
95th percentile per-packet one-way delay: 46.647 ms
Loss rate: 0.53%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-04-24 18:38:47

End at: 2018-04-24 18:39:17

Local clock offset: 0.502 ms

Remote clock offset: 0.238 ms

Below is generated by plot.py at 2018-04-25 01:20:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 39.79 Mbit/s

95th percentile per-packet one-way delay: 58.440 ms

Loss rate: 0.63%

-- Flow 1:

Average throughput: 16.68 Mbit/s

95th percentile per-packet one-way delay: 47.810 ms

Loss rate: 0.42%

-- Flow 2:

Average throughput: 15.23 Mbit/s

95th percentile per-packet one-way delay: 54.365 ms

Loss rate: 0.64%

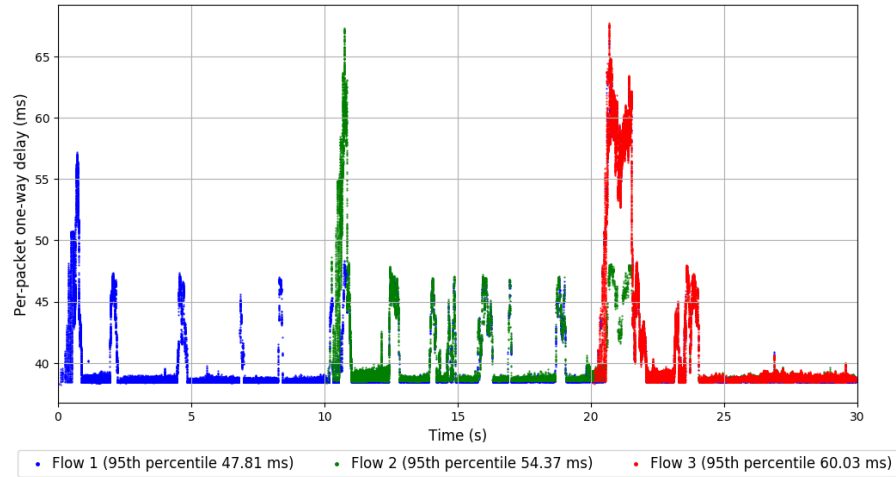
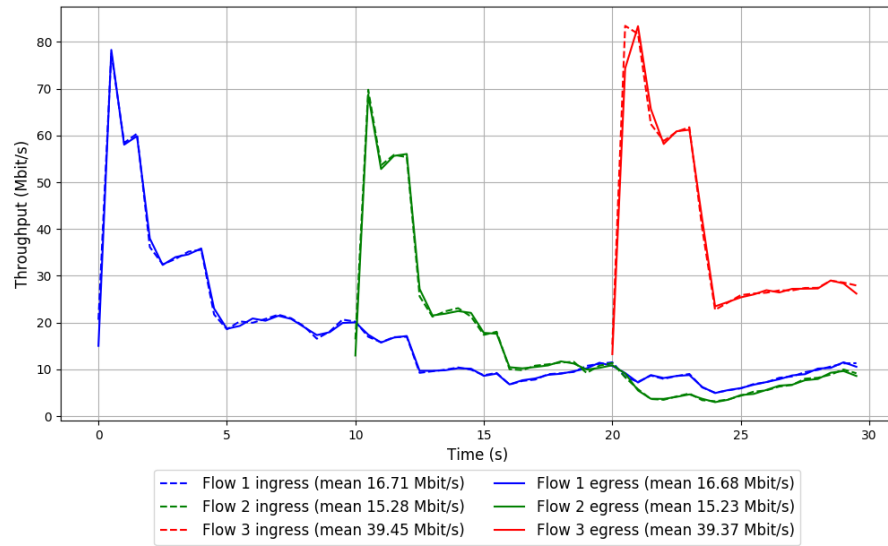
-- Flow 3:

Average throughput: 39.37 Mbit/s

95th percentile per-packet one-way delay: 60.027 ms

Loss rate: 0.89%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-04-24 19:03:46

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

Local clock offset: 0.082 ms

Remote clock offset: 0.541 ms

Below is generated by plot.py at 2018-04-25 01:20:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 40.71 Mbit/s

95th percentile per-packet one-way delay: 45.526 ms

Loss rate: 0.55%

-- Flow 1:

Average throughput: 23.18 Mbit/s

95th percentile per-packet one-way delay: 44.783 ms

Loss rate: 0.50%

-- Flow 2:

Average throughput: 18.49 Mbit/s

95th percentile per-packet one-way delay: 46.681 ms

Loss rate: 0.53%

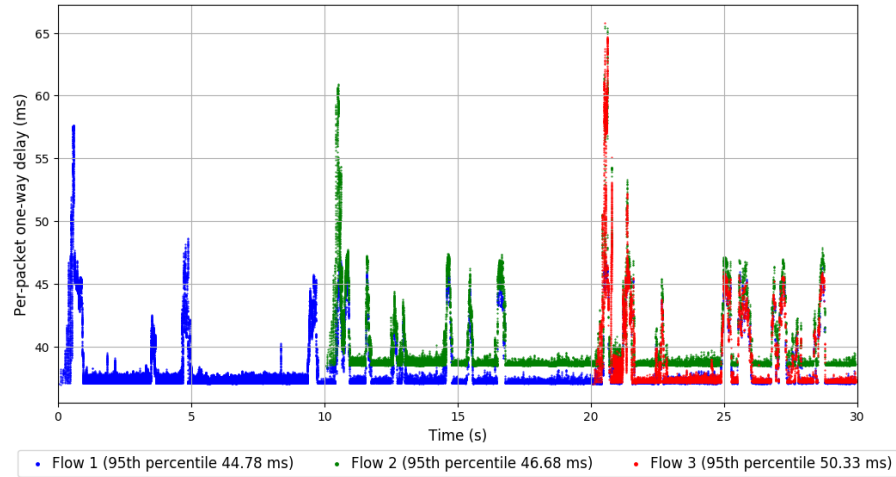
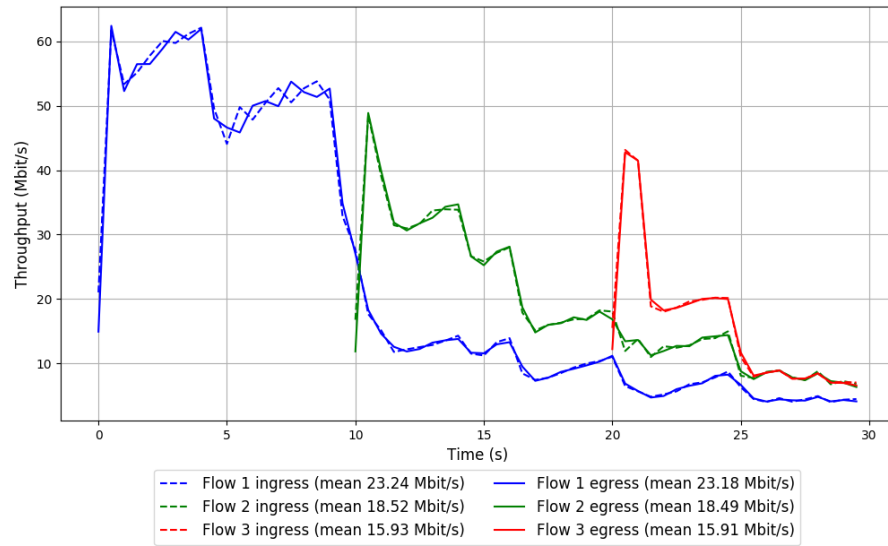
-- Flow 3:

Average throughput: 15.91 Mbit/s

95th percentile per-packet one-way delay: 50.330 ms

Loss rate: 0.80%

Run 6: Report of TCP Cubic — Data Link

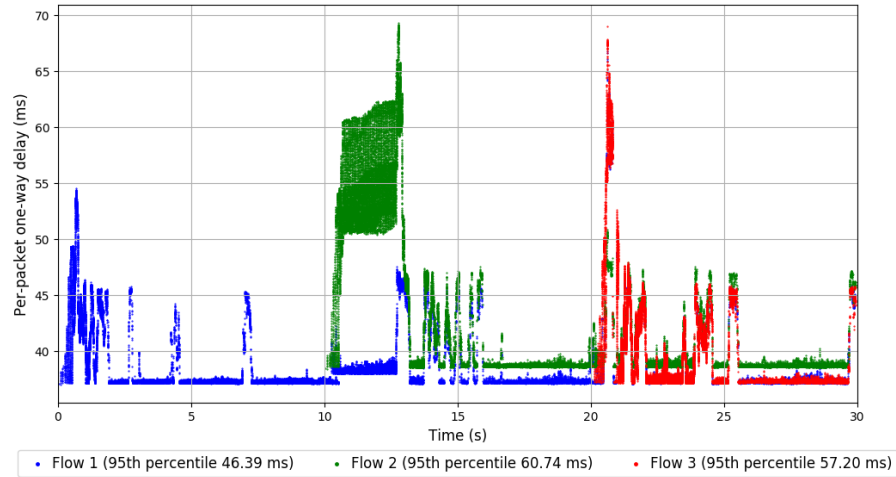
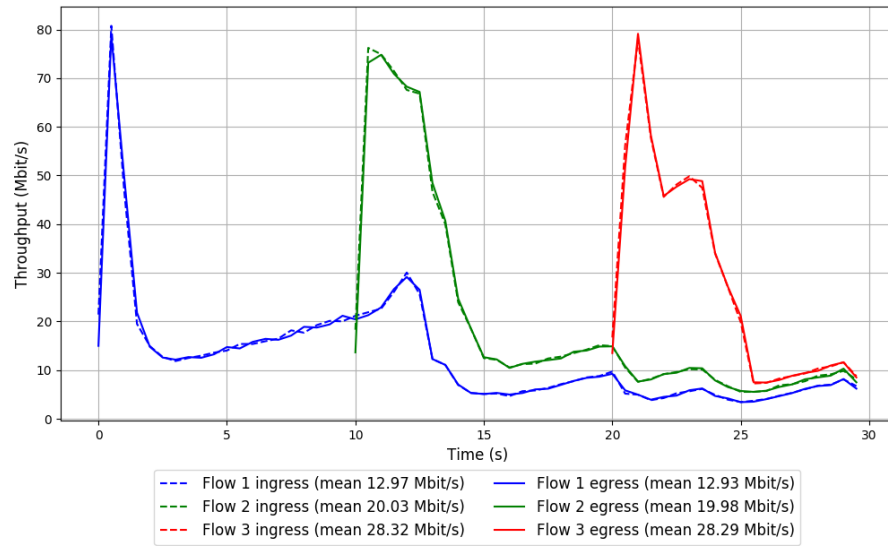


Run 7: Statistics of TCP Cubic

Start at: 2018-04-24 19:27:45
End at: 2018-04-24 19:28:15
Local clock offset: 0.906 ms
Remote clock offset: -0.846 ms

Below is generated by plot.py at 2018-04-25 01:20:32
Datalink statistics
-- Total of 3 flows:
Average throughput: 35.55 Mbit/s
95th percentile per-packet one-way delay: 58.088 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 12.93 Mbit/s
95th percentile per-packet one-way delay: 46.387 ms
Loss rate: 0.56%
-- Flow 2:
Average throughput: 19.98 Mbit/s
95th percentile per-packet one-way delay: 60.740 ms
Loss rate: 0.58%
-- Flow 3:
Average throughput: 28.29 Mbit/s
95th percentile per-packet one-way delay: 57.203 ms
Loss rate: 0.78%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-04-24 19:51:30

End at: 2018-04-24 19:52:00

Local clock offset: 1.35 ms

Remote clock offset: 0.264 ms

Below is generated by plot.py at 2018-04-25 01:20:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 63.71 Mbit/s

95th percentile per-packet one-way delay: 50.670 ms

Loss rate: 0.53%

-- Flow 1:

Average throughput: 32.72 Mbit/s

95th percentile per-packet one-way delay: 46.447 ms

Loss rate: 0.37%

-- Flow 2:

Average throughput: 28.05 Mbit/s

95th percentile per-packet one-way delay: 60.412 ms

Loss rate: 0.60%

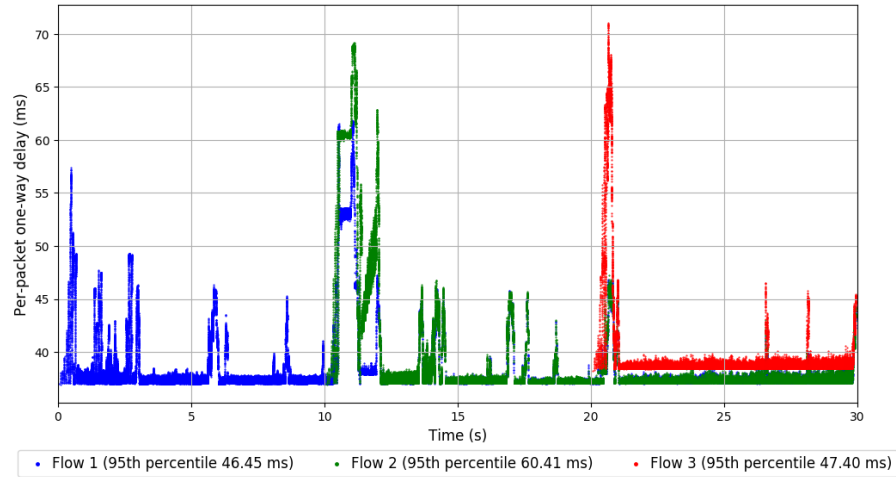
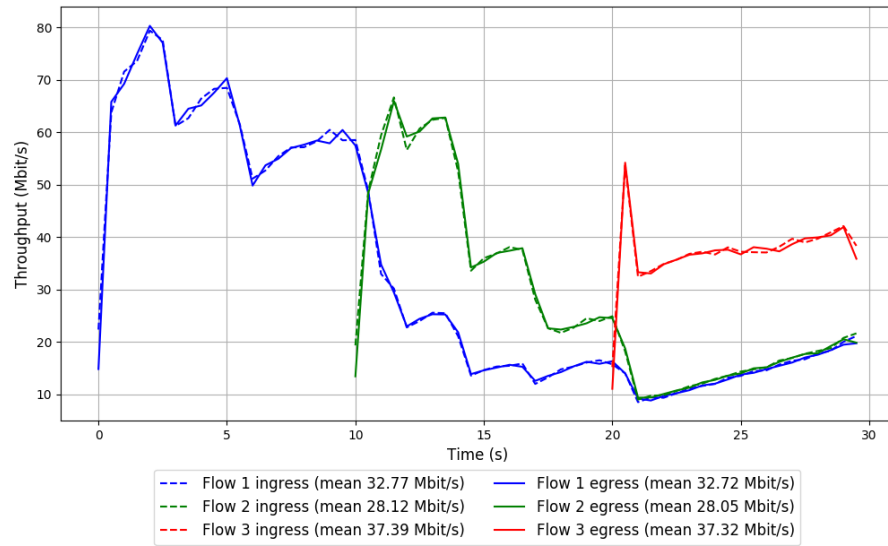
-- Flow 3:

Average throughput: 37.32 Mbit/s

95th percentile per-packet one-way delay: 47.401 ms

Loss rate: 0.86%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-04-24 20:15:20

End at: 2018-04-24 20:15:50

Local clock offset: 1.16 ms

Remote clock offset: 1.075 ms

Below is generated by plot.py at 2018-04-25 01:20:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 20.17 Mbit/s

95th percentile per-packet one-way delay: 46.168 ms

Loss rate: 0.70%

-- Flow 1:

Average throughput: 11.51 Mbit/s

95th percentile per-packet one-way delay: 47.621 ms

Loss rate: 0.70%

-- Flow 2:

Average throughput: 10.24 Mbit/s

95th percentile per-packet one-way delay: 45.648 ms

Loss rate: 0.47%

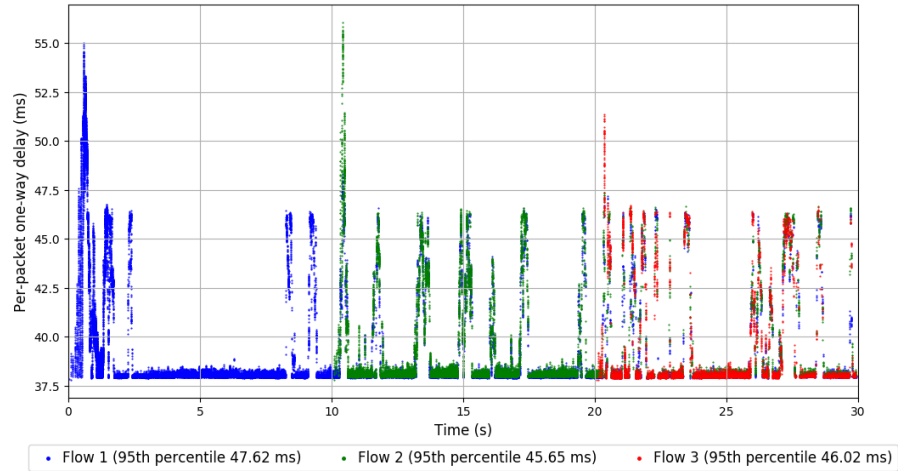
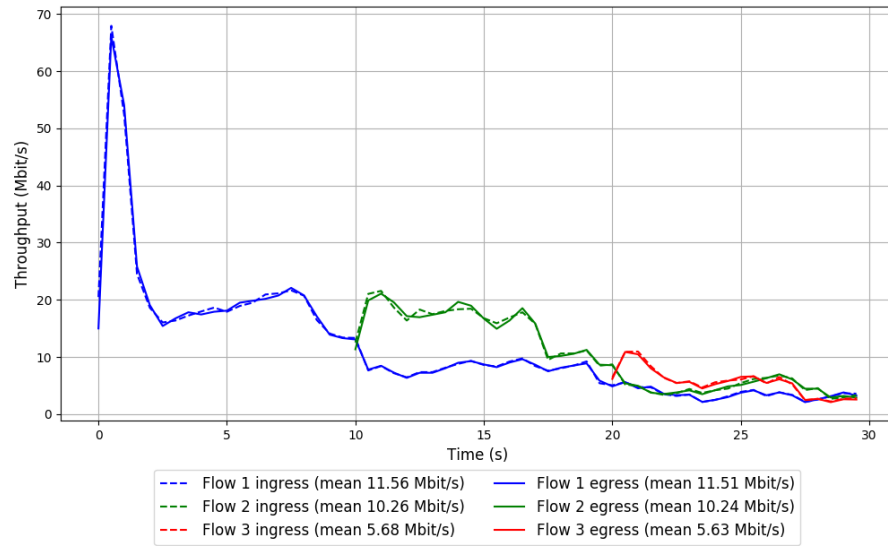
-- Flow 3:

Average throughput: 5.63 Mbit/s

95th percentile per-packet one-way delay: 46.019 ms

Loss rate: 1.60%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-04-24 20:39:32

End at: 2018-04-24 20:40:02

Local clock offset: 1.189 ms

Remote clock offset: 0.414 ms

Below is generated by plot.py at 2018-04-25 01:20:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 14.33 Mbit/s

95th percentile per-packet one-way delay: 46.344 ms

Loss rate: 0.93%

-- Flow 1:

Average throughput: 5.67 Mbit/s

95th percentile per-packet one-way delay: 44.754 ms

Loss rate: 0.82%

-- Flow 2:

Average throughput: 9.36 Mbit/s

95th percentile per-packet one-way delay: 47.402 ms

Loss rate: 0.92%

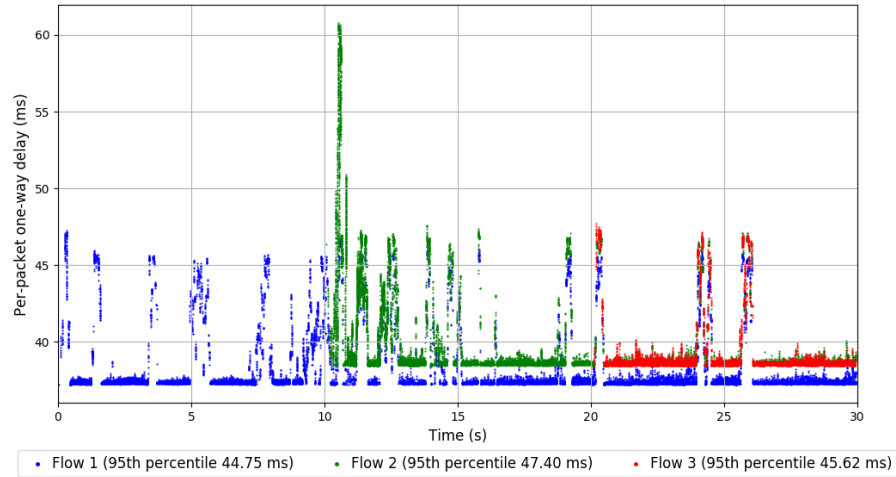
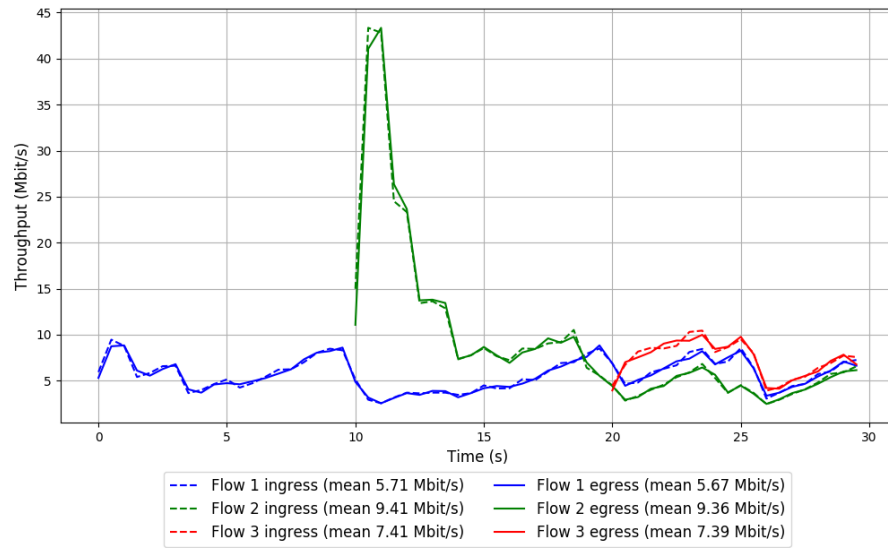
-- Flow 3:

Average throughput: 7.39 Mbit/s

95th percentile per-packet one-way delay: 45.619 ms

Loss rate: 1.19%

Run 10: Report of TCP Cubic — Data Link

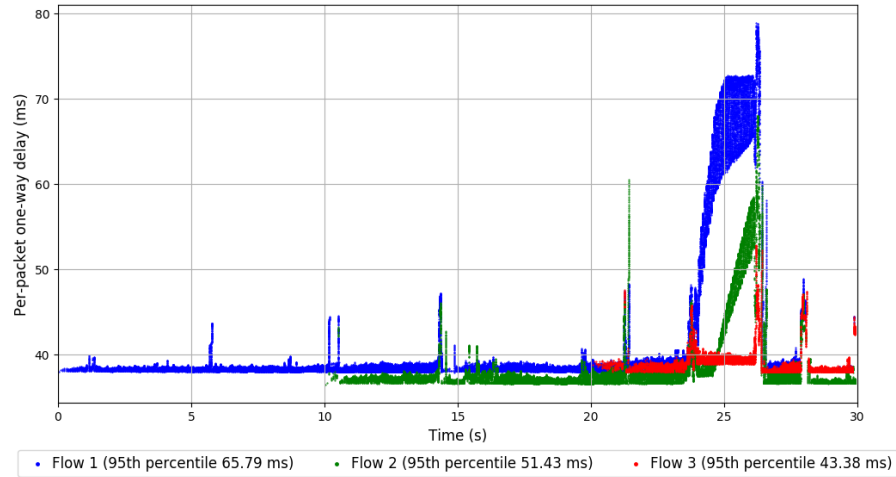
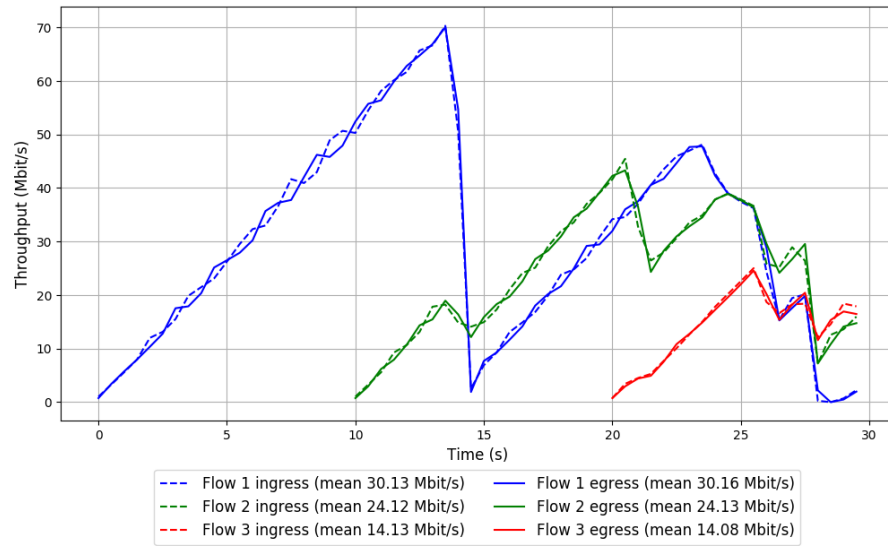


Run 1: Statistics of LEDBAT

Start at: 2018-04-24 17:20:51
End at: 2018-04-24 17:21:21
Local clock offset: 1.065 ms
Remote clock offset: -0.519 ms

Below is generated by plot.py at 2018-04-25 01:20:44
Datalink statistics
-- Total of 3 flows:
Average throughput: 50.82 Mbit/s
95th percentile per-packet one-way delay: 57.963 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 30.16 Mbit/s
95th percentile per-packet one-way delay: 65.786 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 24.13 Mbit/s
95th percentile per-packet one-way delay: 51.427 ms
Loss rate: 0.29%
-- Flow 3:
Average throughput: 14.08 Mbit/s
95th percentile per-packet one-way delay: 43.381 ms
Loss rate: 1.08%

Run 1: Report of LEDBAT — Data Link

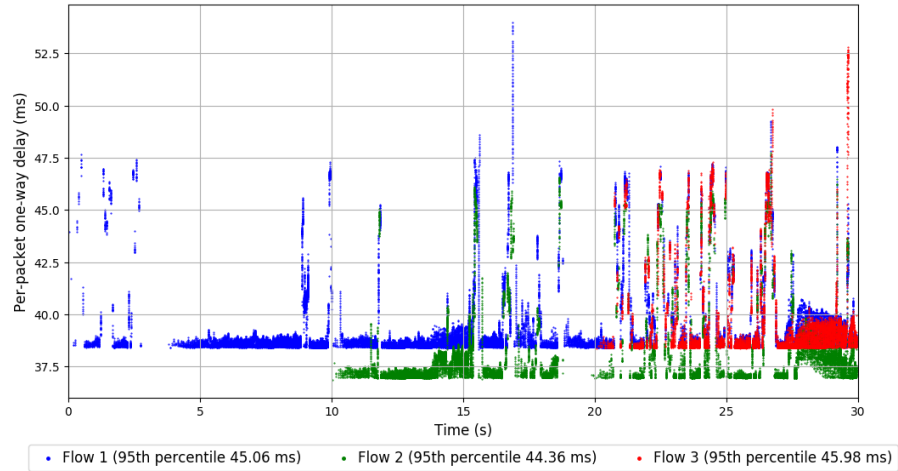
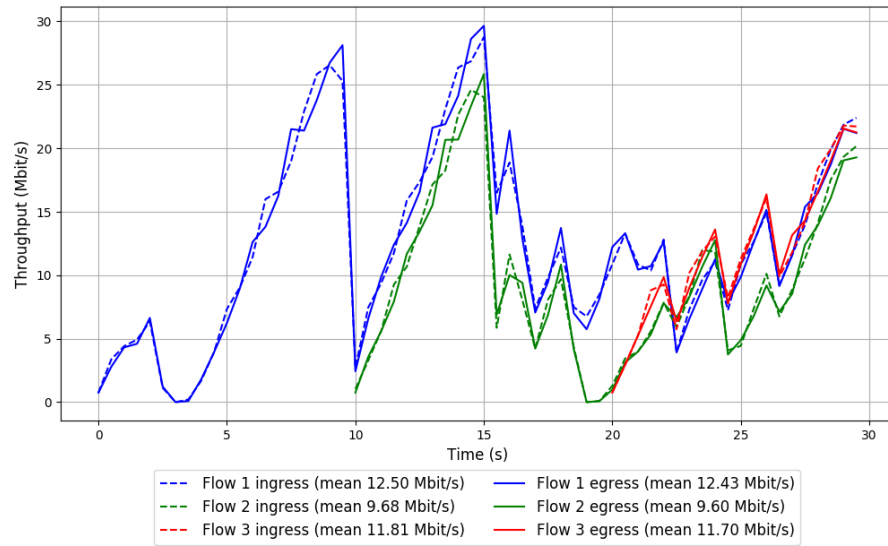


Run 2: Statistics of LEDBAT

Start at: 2018-04-24 17:44:43
End at: 2018-04-24 17:45:13
Local clock offset: 1.119 ms
Remote clock offset: -0.431 ms

Below is generated by plot.py at 2018-04-25 01:20:44
Datalink statistics
-- Total of 3 flows:
Average throughput: 22.69 Mbit/s
95th percentile per-packet one-way delay: 45.042 ms
Loss rate: 1.02%
-- Flow 1:
Average throughput: 12.43 Mbit/s
95th percentile per-packet one-way delay: 45.065 ms
Loss rate: 0.77%
-- Flow 2:
Average throughput: 9.60 Mbit/s
95th percentile per-packet one-way delay: 44.362 ms
Loss rate: 1.15%
-- Flow 3:
Average throughput: 11.70 Mbit/s
95th percentile per-packet one-way delay: 45.983 ms
Loss rate: 1.61%

Run 2: Report of LEDBAT — Data Link

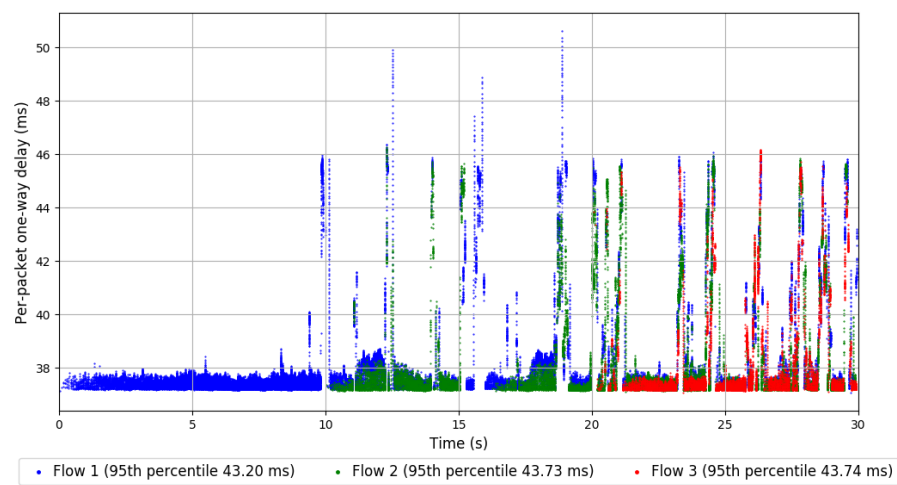
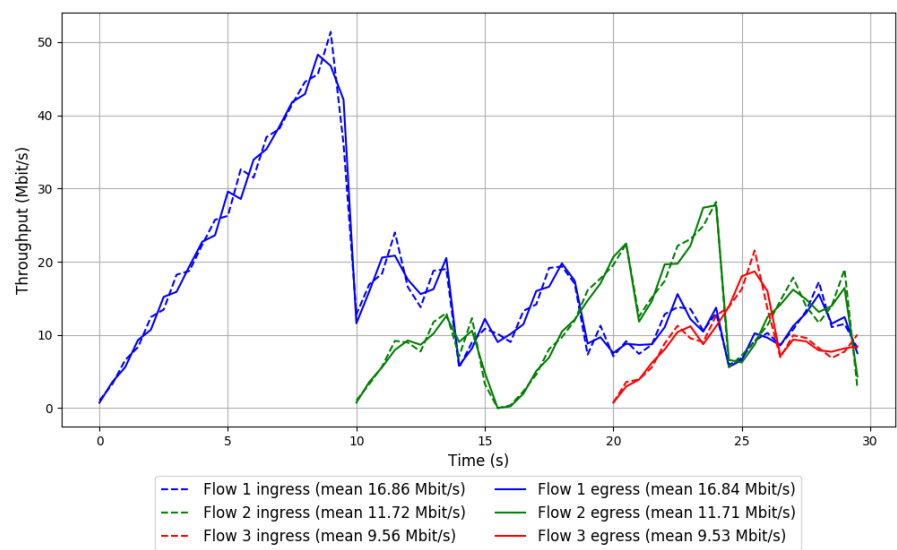


Run 3: Statistics of LEDBAT

Start at: 2018-04-24 18:08:35
End at: 2018-04-24 18:09:05
Local clock offset: 1.566 ms
Remote clock offset: -0.212 ms

Below is generated by plot.py at 2018-04-25 01:20:44
Datalink statistics
-- Total of 3 flows:
Average throughput: 27.75 Mbit/s
95th percentile per-packet one-way delay: 43.458 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 16.84 Mbit/s
95th percentile per-packet one-way delay: 43.202 ms
Loss rate: 0.31%
-- Flow 2:
Average throughput: 11.71 Mbit/s
95th percentile per-packet one-way delay: 43.729 ms
Loss rate: 0.41%
-- Flow 3:
Average throughput: 9.53 Mbit/s
95th percentile per-packet one-way delay: 43.742 ms
Loss rate: 1.06%

Run 3: Report of LEDBAT — Data Link

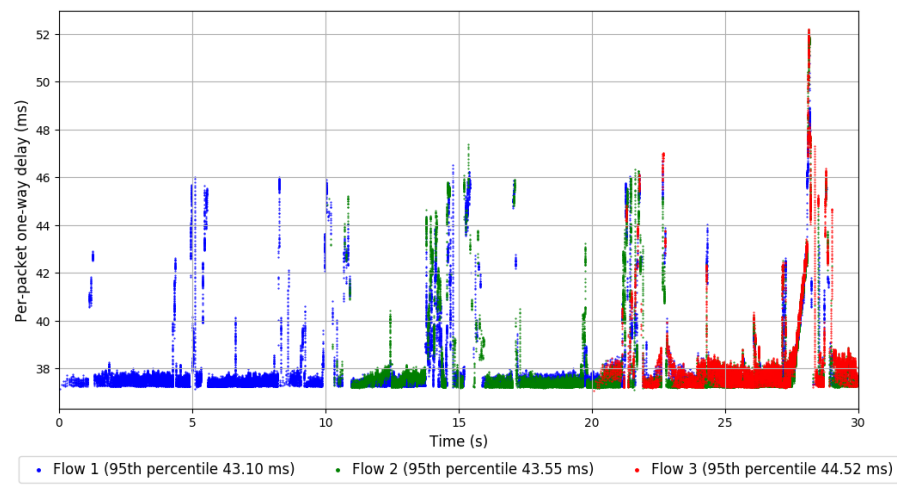
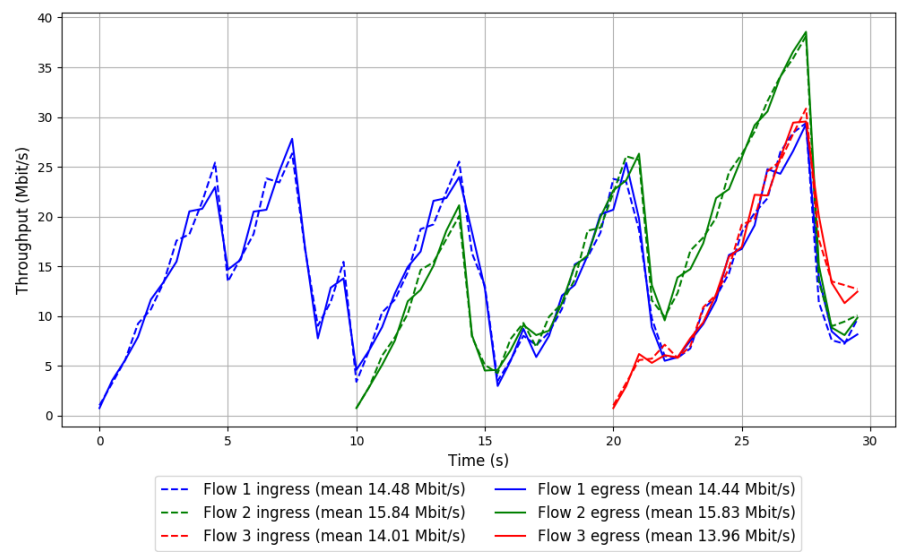


Run 4: Statistics of LEDBAT

Start at: 2018-04-24 18:32:56
End at: 2018-04-24 18:33:26
Local clock offset: 0.733 ms
Remote clock offset: -0.034 ms

Below is generated by plot.py at 2018-04-25 01:20:44
Datalink statistics
-- Total of 3 flows:
Average throughput: 29.56 Mbit/s
95th percentile per-packet one-way delay: 43.457 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 14.44 Mbit/s
95th percentile per-packet one-way delay: 43.102 ms
Loss rate: 0.47%
-- Flow 2:
Average throughput: 15.83 Mbit/s
95th percentile per-packet one-way delay: 43.545 ms
Loss rate: 0.44%
-- Flow 3:
Average throughput: 13.96 Mbit/s
95th percentile per-packet one-way delay: 44.520 ms
Loss rate: 1.04%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-04-24 18:57:41

End at: 2018-04-24 18:58:11

Local clock offset: 0.117 ms

Remote clock offset: 0.48 ms

Below is generated by plot.py at 2018-04-25 01:20:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 19.33 Mbit/s

95th percentile per-packet one-way delay: 45.190 ms

Loss rate: 0.74%

-- Flow 1:

Average throughput: 9.82 Mbit/s

95th percentile per-packet one-way delay: 45.791 ms

Loss rate: 0.57%

-- Flow 2:

Average throughput: 10.88 Mbit/s

95th percentile per-packet one-way delay: 44.348 ms

Loss rate: 0.73%

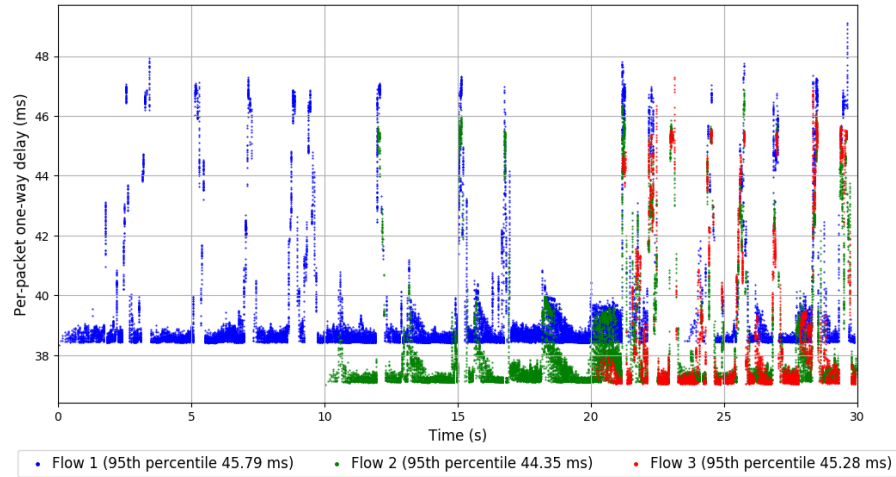
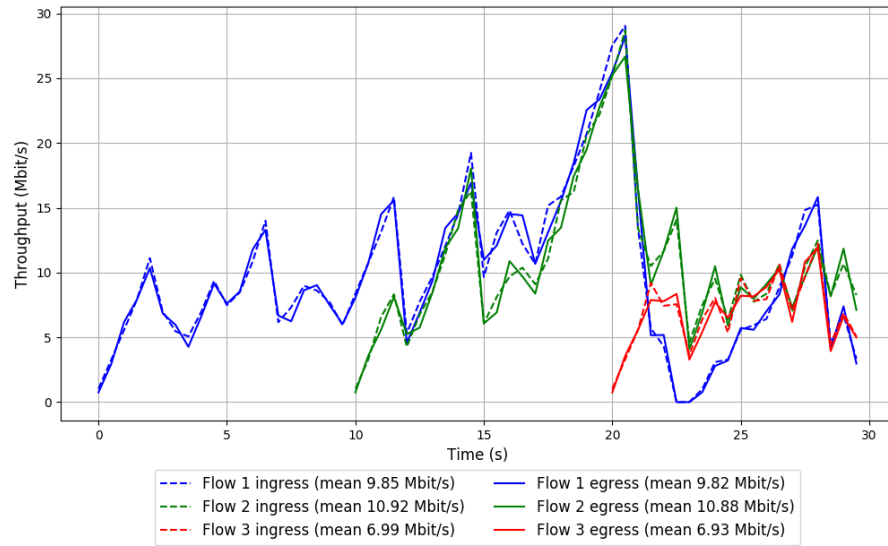
-- Flow 3:

Average throughput: 6.93 Mbit/s

95th percentile per-packet one-way delay: 45.279 ms

Loss rate: 1.47%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-04-24 19:22:01

End at: 2018-04-24 19:22:31

Local clock offset: 0.373 ms

Remote clock offset: -0.21 ms

Below is generated by plot.py at 2018-04-25 01:20:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 22.66 Mbit/s

95th percentile per-packet one-way delay: 44.181 ms

Loss rate: 0.74%

-- Flow 1:

Average throughput: 13.11 Mbit/s

95th percentile per-packet one-way delay: 43.871 ms

Loss rate: 0.65%

-- Flow 2:

Average throughput: 8.04 Mbit/s

95th percentile per-packet one-way delay: 44.470 ms

Loss rate: 1.00%

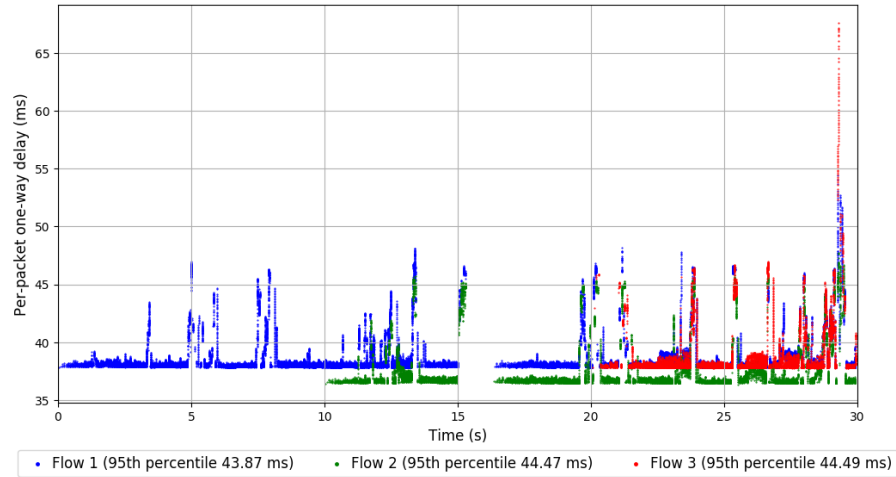
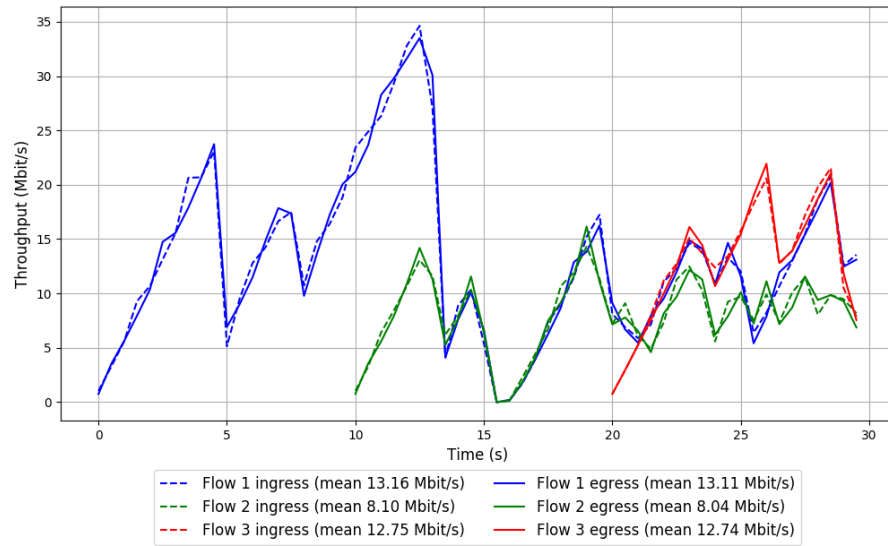
-- Flow 3:

Average throughput: 12.74 Mbit/s

95th percentile per-packet one-way delay: 44.495 ms

Loss rate: 0.70%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-04-24 19:45:53

End at: 2018-04-24 19:46:23

Local clock offset: 1.302 ms

Remote clock offset: 0.392 ms

Below is generated by plot.py at 2018-04-25 01:21:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 49.30 Mbit/s

95th percentile per-packet one-way delay: 54.083 ms

Loss rate: 0.40%

-- Flow 1:

Average throughput: 28.42 Mbit/s

95th percentile per-packet one-way delay: 41.638 ms

Loss rate: 0.23%

-- Flow 2:

Average throughput: 23.35 Mbit/s

95th percentile per-packet one-way delay: 62.090 ms

Loss rate: 0.54%

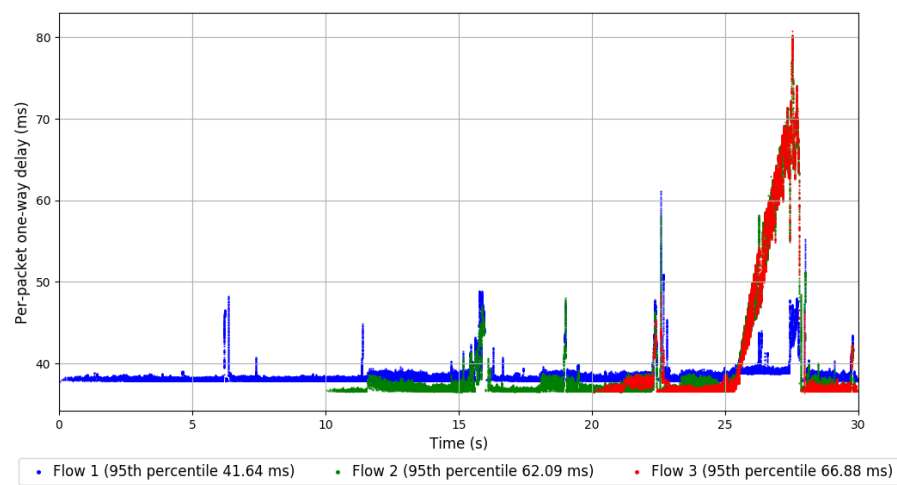
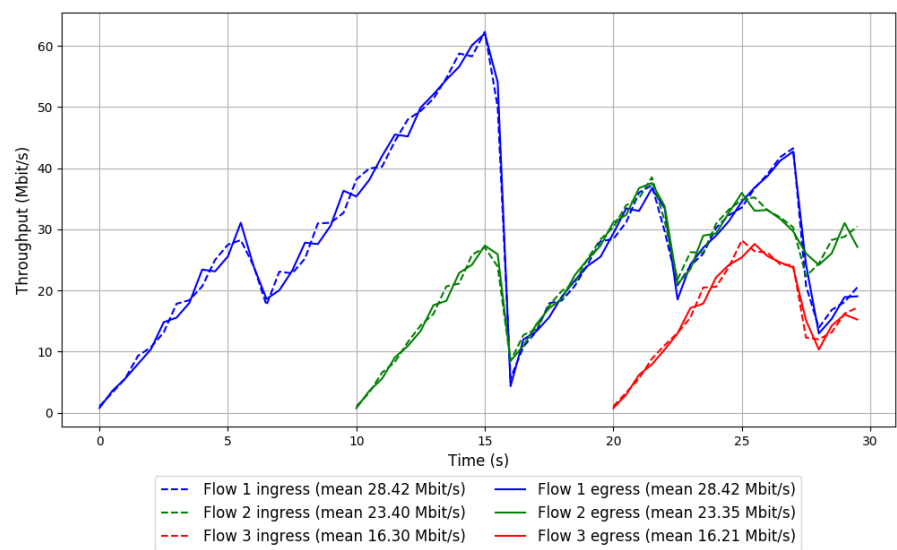
-- Flow 3:

Average throughput: 16.21 Mbit/s

95th percentile per-packet one-way delay: 66.878 ms

Loss rate: 0.89%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-04-24 20:09:27

End at: 2018-04-24 20:09:57

Local clock offset: 1.24 ms

Remote clock offset: 0.695 ms

Below is generated by plot.py at 2018-04-25 01:21:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 19.35 Mbit/s

95th percentile per-packet one-way delay: 45.279 ms

Loss rate: 0.69%

-- Flow 1:

Average throughput: 11.28 Mbit/s

95th percentile per-packet one-way delay: 45.707 ms

Loss rate: 0.39%

-- Flow 2:

Average throughput: 8.86 Mbit/s

95th percentile per-packet one-way delay: 45.088 ms

Loss rate: 0.88%

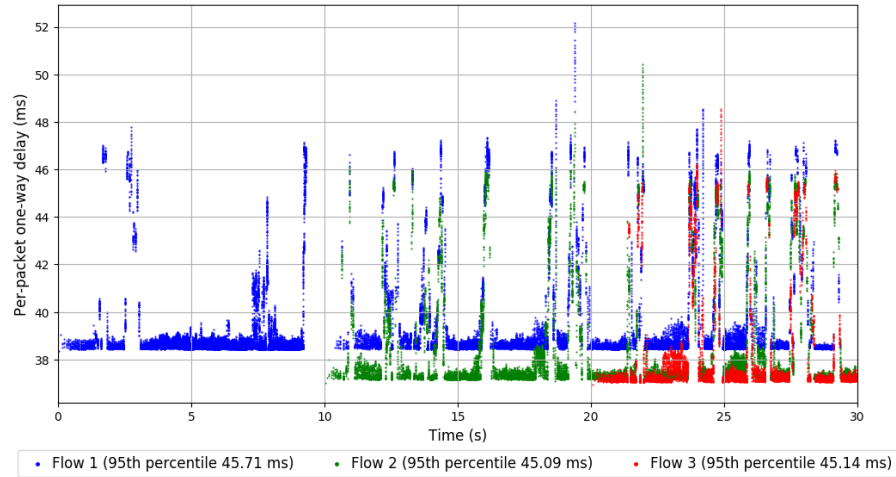
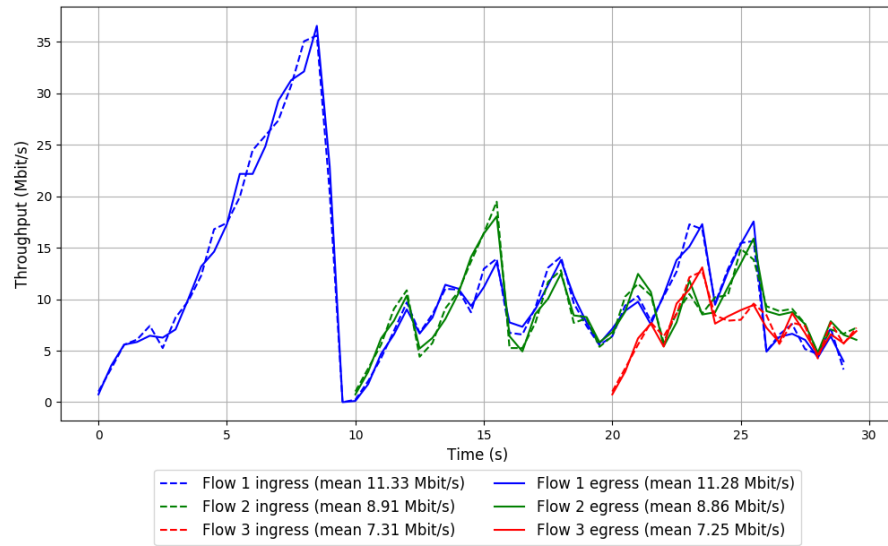
-- Flow 3:

Average throughput: 7.25 Mbit/s

95th percentile per-packet one-way delay: 45.138 ms

Loss rate: 1.61%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-04-24 20:34:00

End at: 2018-04-24 20:34:30

Local clock offset: 1.222 ms

Remote clock offset: 0.423 ms

Below is generated by plot.py at 2018-04-25 01:21:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 20.41 Mbit/s

95th percentile per-packet one-way delay: 43.167 ms

Loss rate: 0.96%

-- Flow 1:

Average throughput: 12.70 Mbit/s

95th percentile per-packet one-way delay: 42.825 ms

Loss rate: 0.61%

-- Flow 2:

Average throughput: 8.06 Mbit/s

95th percentile per-packet one-way delay: 43.115 ms

Loss rate: 1.34%

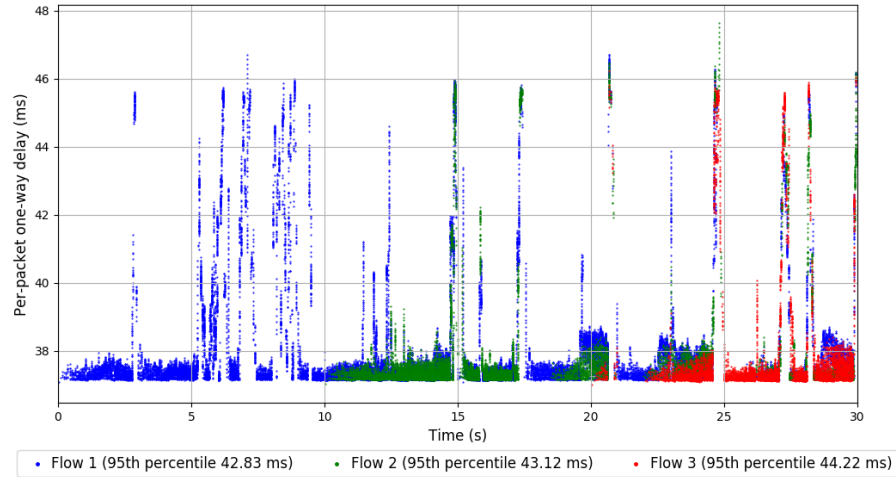
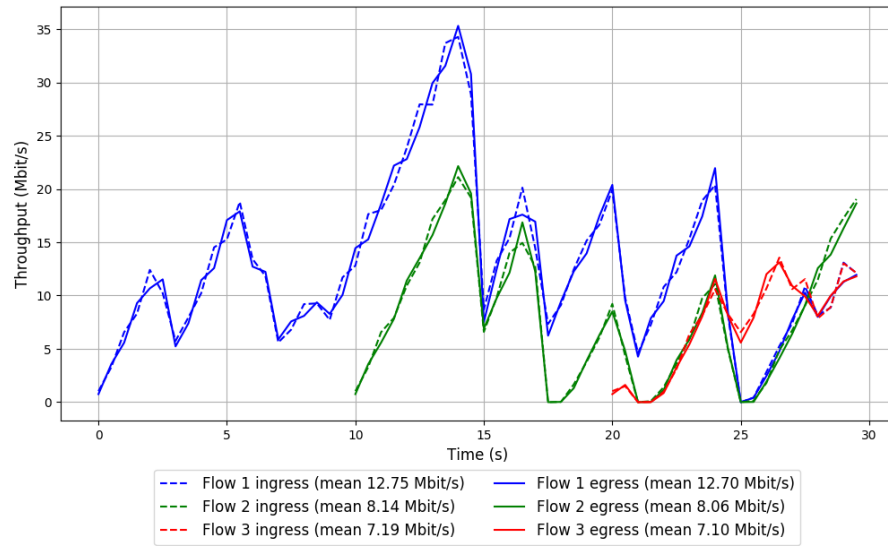
-- Flow 3:

Average throughput: 7.10 Mbit/s

95th percentile per-packet one-way delay: 44.217 ms

Loss rate: 1.95%

Run 9: Report of LEDBAT — Data Link

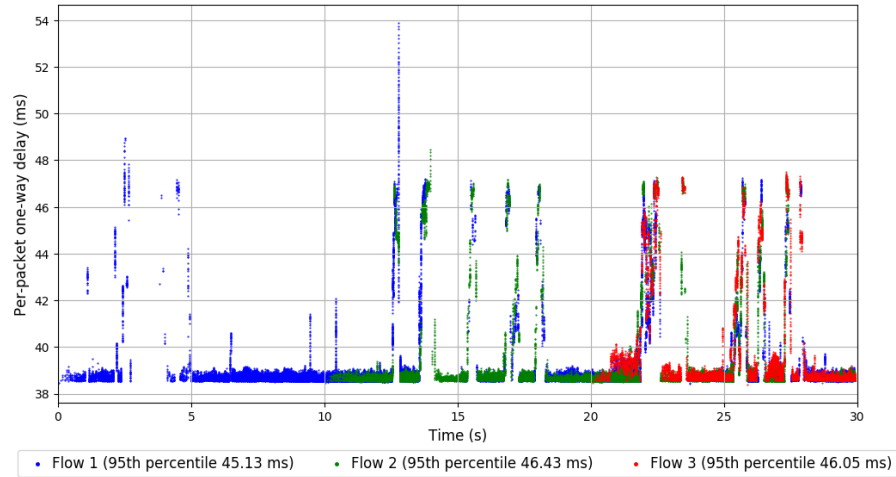
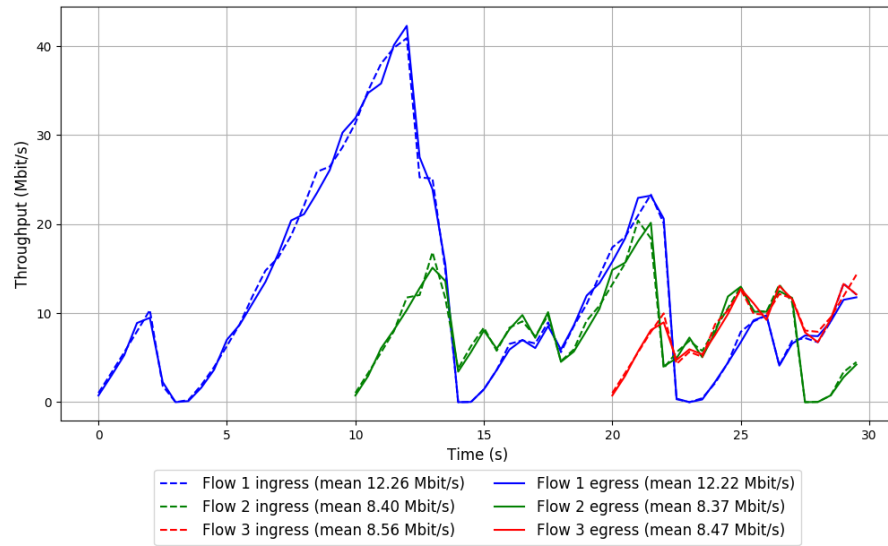


Run 10: Statistics of LEDBAT

Start at: 2018-04-24 20:58:41
End at: 2018-04-24 20:59:11
Local clock offset: 1.305 ms
Remote clock offset: -0.061 ms

Below is generated by plot.py at 2018-04-25 01:21:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 20.56 Mbit/s
95th percentile per-packet one-way delay: 45.775 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 12.22 Mbit/s
95th percentile per-packet one-way delay: 45.127 ms
Loss rate: 0.54%
-- Flow 2:
Average throughput: 8.37 Mbit/s
95th percentile per-packet one-way delay: 46.426 ms
Loss rate: 0.76%
-- Flow 3:
Average throughput: 8.47 Mbit/s
95th percentile per-packet one-way delay: 46.049 ms
Loss rate: 1.67%

Run 10: Report of LEDBAT — Data Link

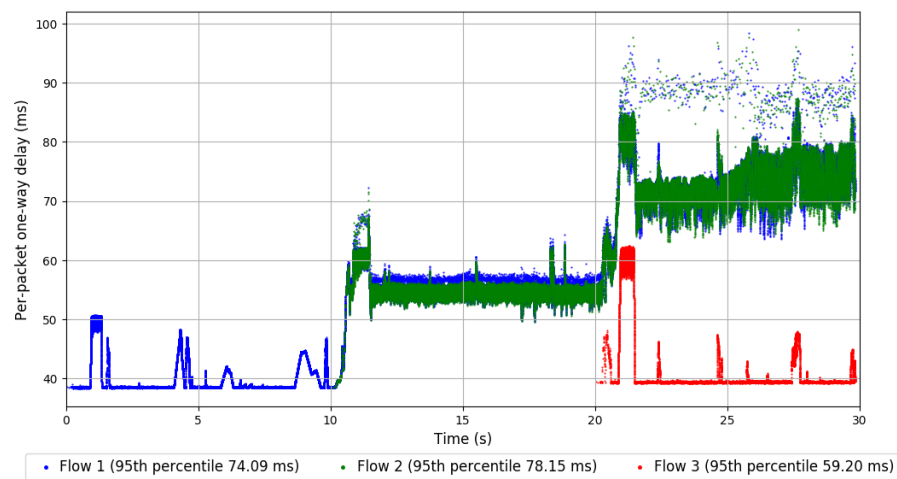
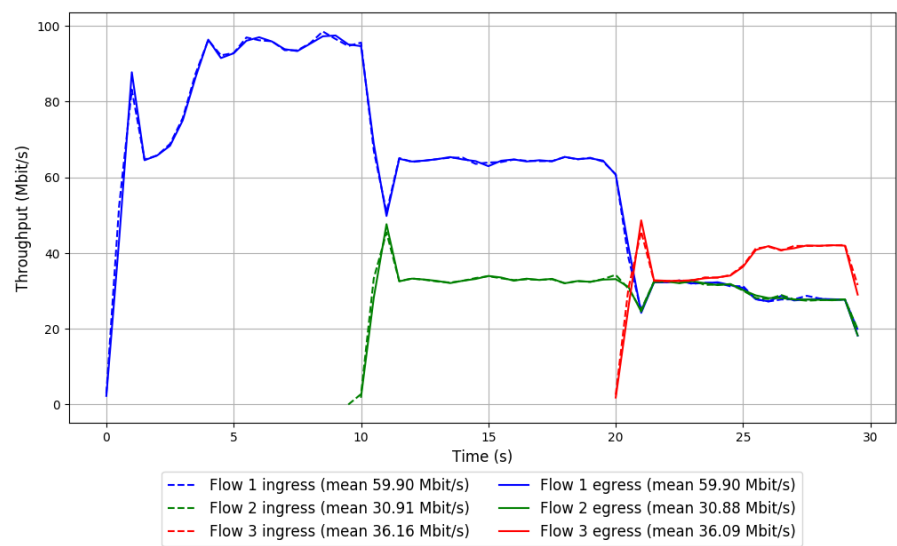


Run 1: Statistics of PCC-Allegro

Start at: 2018-04-24 17:09:43
End at: 2018-04-24 17:10:13
Local clock offset: 0.952 ms
Remote clock offset: -0.689 ms

Below is generated by plot.py at 2018-04-25 01:22:04
Datalink statistics
-- Total of 3 flows:
Average throughput: 92.27 Mbit/s
95th percentile per-packet one-way delay: 75.216 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 59.90 Mbit/s
95th percentile per-packet one-way delay: 74.087 ms
Loss rate: 0.22%
-- Flow 2:
Average throughput: 30.88 Mbit/s
95th percentile per-packet one-way delay: 78.146 ms
Loss rate: 0.51%
-- Flow 3:
Average throughput: 36.09 Mbit/s
95th percentile per-packet one-way delay: 59.201 ms
Loss rate: 0.89%

Run 1: Report of PCC-Allegro — Data Link

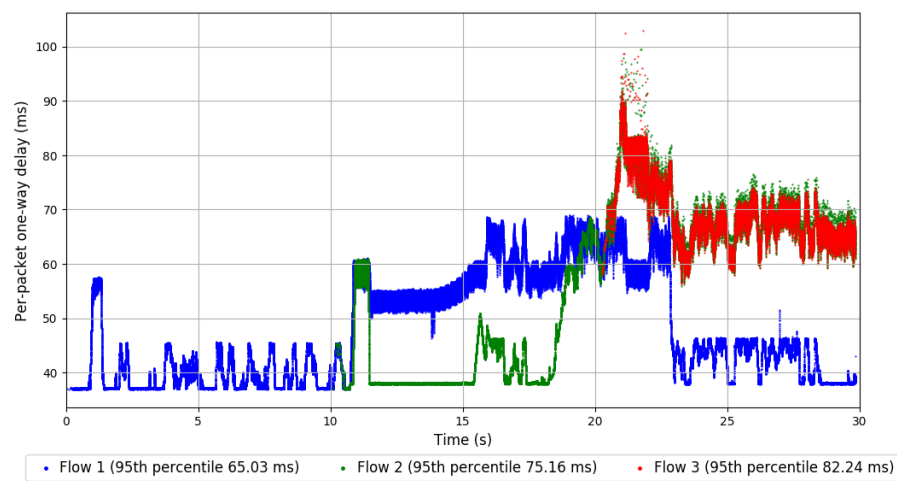
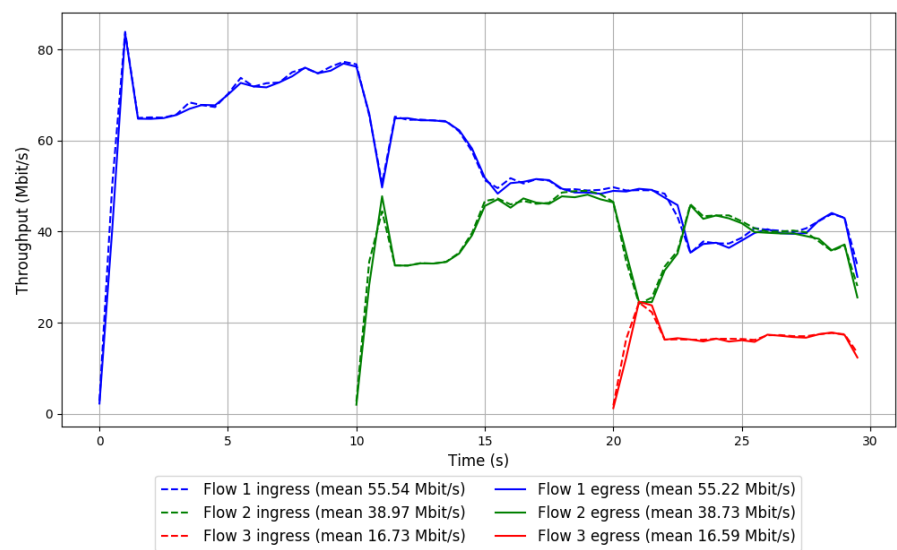


Run 2: Statistics of PCC-Allegro

Start at: 2018-04-24 17:33:16
End at: 2018-04-24 17:33:46
Local clock offset: 1.282 ms
Remote clock offset: -0.448 ms

Below is generated by plot.py at 2018-04-25 01:22:04
Datalink statistics
-- Total of 3 flows:
Average throughput: 86.38 Mbit/s
95th percentile per-packet one-way delay: 70.960 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 55.22 Mbit/s
95th percentile per-packet one-way delay: 65.033 ms
Loss rate: 0.78%
-- Flow 2:
Average throughput: 38.73 Mbit/s
95th percentile per-packet one-way delay: 75.157 ms
Loss rate: 1.00%
-- Flow 3:
Average throughput: 16.59 Mbit/s
95th percentile per-packet one-way delay: 82.244 ms
Loss rate: 1.79%

Run 2: Report of PCC-Allegro — Data Link

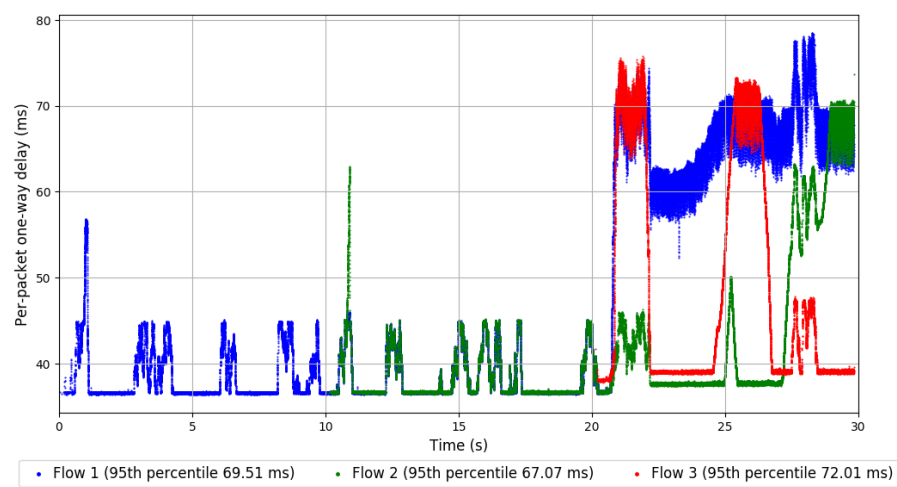
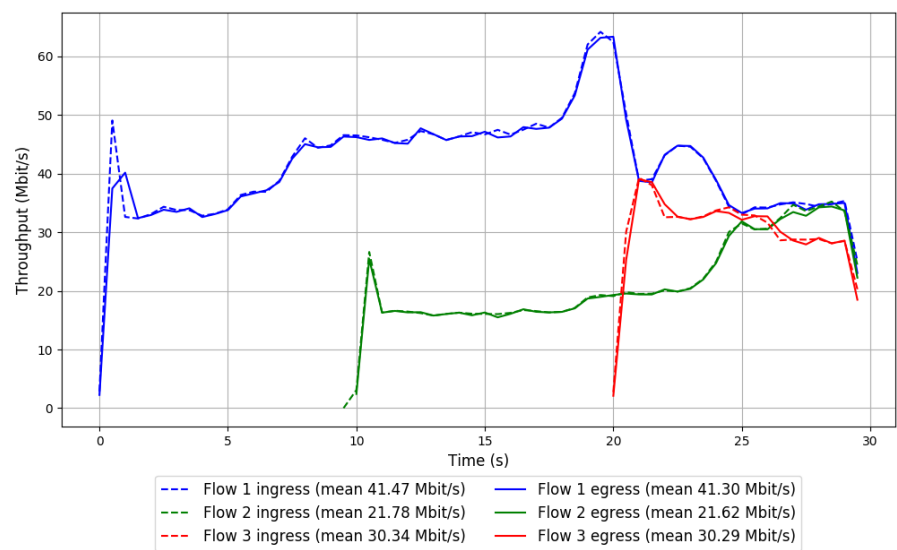


Run 3: Statistics of PCC-Allegro

Start at: 2018-04-24 17:57:08
End at: 2018-04-24 17:57:38
Local clock offset: 1.407 ms
Remote clock offset: -0.025 ms

Below is generated by plot.py at 2018-04-25 01:22:04
Datalink statistics
-- Total of 3 flows:
Average throughput: 65.60 Mbit/s
95th percentile per-packet one-way delay: 69.874 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 41.30 Mbit/s
95th percentile per-packet one-way delay: 69.513 ms
Loss rate: 0.66%
-- Flow 2:
Average throughput: 21.62 Mbit/s
95th percentile per-packet one-way delay: 67.069 ms
Loss rate: 1.08%
-- Flow 3:
Average throughput: 30.29 Mbit/s
95th percentile per-packet one-way delay: 72.011 ms
Loss rate: 0.85%

Run 3: Report of PCC-Allegro — Data Link

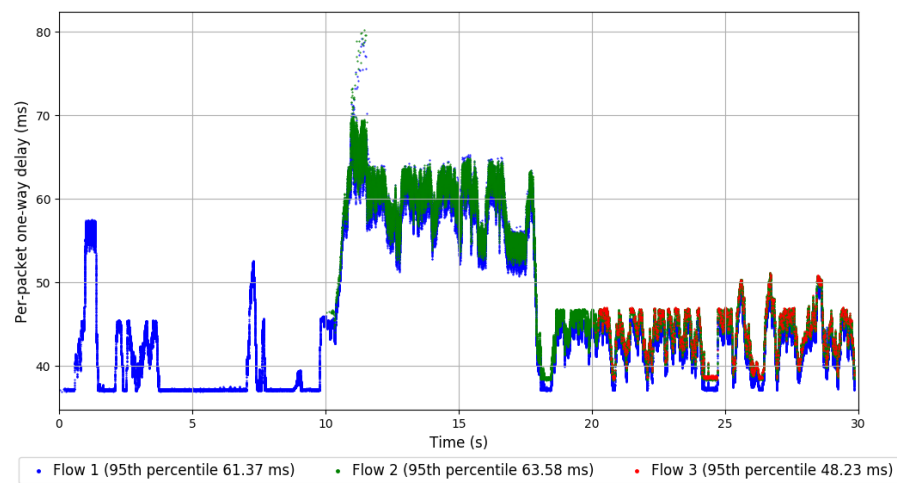
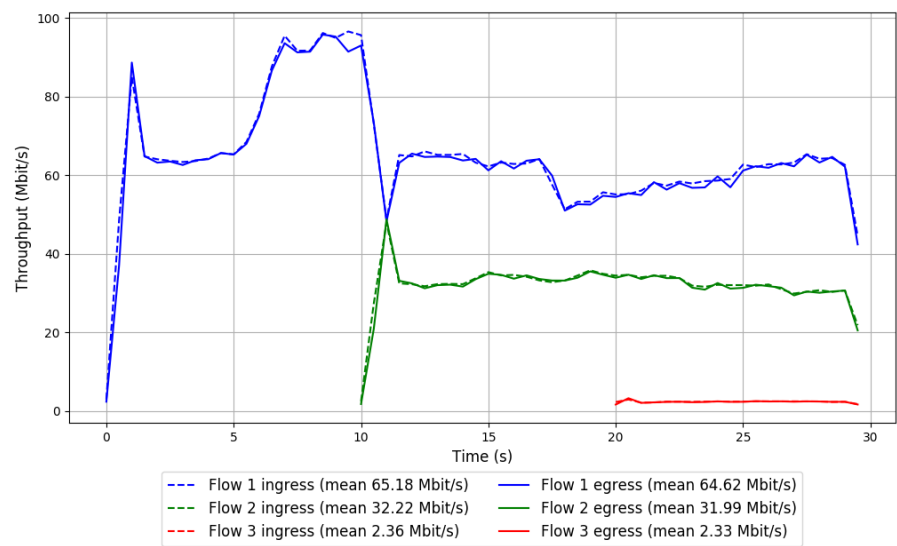


Run 4: Statistics of PCC-Allegro

Start at: 2018-04-24 18:20:55
End at: 2018-04-24 18:21:25
Local clock offset: 1.056 ms
Remote clock offset: -0.254 ms

Below is generated by plot.py at 2018-04-25 01:22:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 86.63 Mbit/s
95th percentile per-packet one-way delay: 62.151 ms
Loss rate: 1.08%
-- Flow 1:
Average throughput: 64.62 Mbit/s
95th percentile per-packet one-way delay: 61.368 ms
Loss rate: 1.06%
-- Flow 2:
Average throughput: 31.99 Mbit/s
95th percentile per-packet one-way delay: 63.583 ms
Loss rate: 1.11%
-- Flow 3:
Average throughput: 2.33 Mbit/s
95th percentile per-packet one-way delay: 48.227 ms
Loss rate: 1.67%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2018-04-24 18:45:41

End at: 2018-04-24 18:46:11

Local clock offset: 0.32 ms

Remote clock offset: 0.323 ms

Below is generated by plot.py at 2018-04-25 01:22:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 77.32 Mbit/s

95th percentile per-packet one-way delay: 66.063 ms

Loss rate: 1.25%

-- Flow 1:

Average throughput: 56.31 Mbit/s

95th percentile per-packet one-way delay: 65.584 ms

Loss rate: 1.22%

-- Flow 2:

Average throughput: 15.61 Mbit/s

95th percentile per-packet one-way delay: 68.362 ms

Loss rate: 1.33%

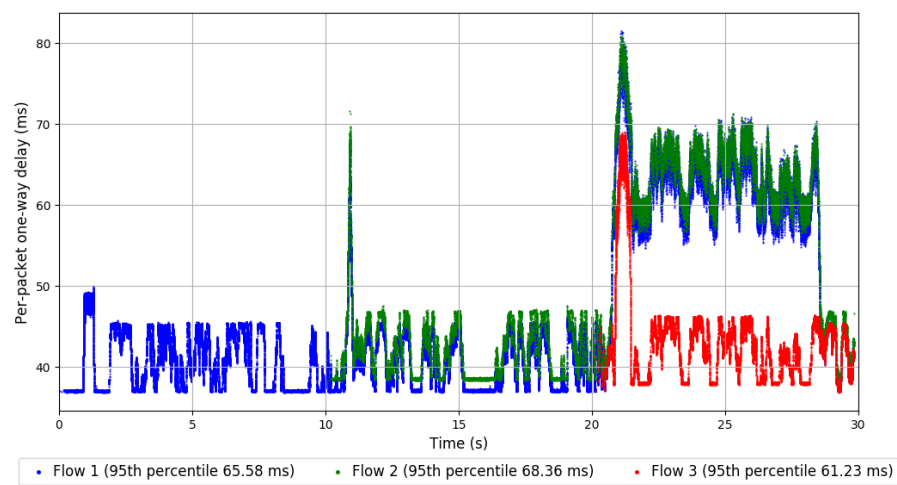
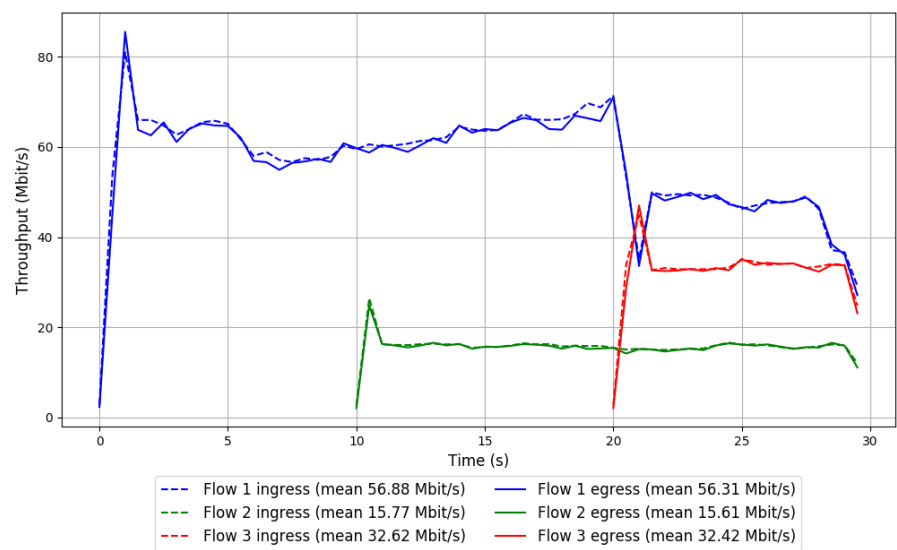
-- Flow 3:

Average throughput: 32.42 Mbit/s

95th percentile per-packet one-way delay: 61.227 ms

Loss rate: 1.31%

Run 5: Report of PCC-Allegro — Data Link

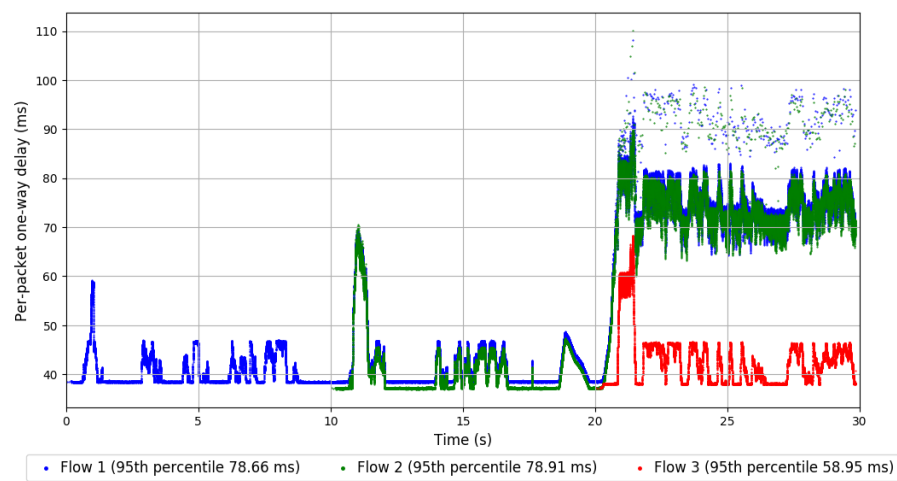
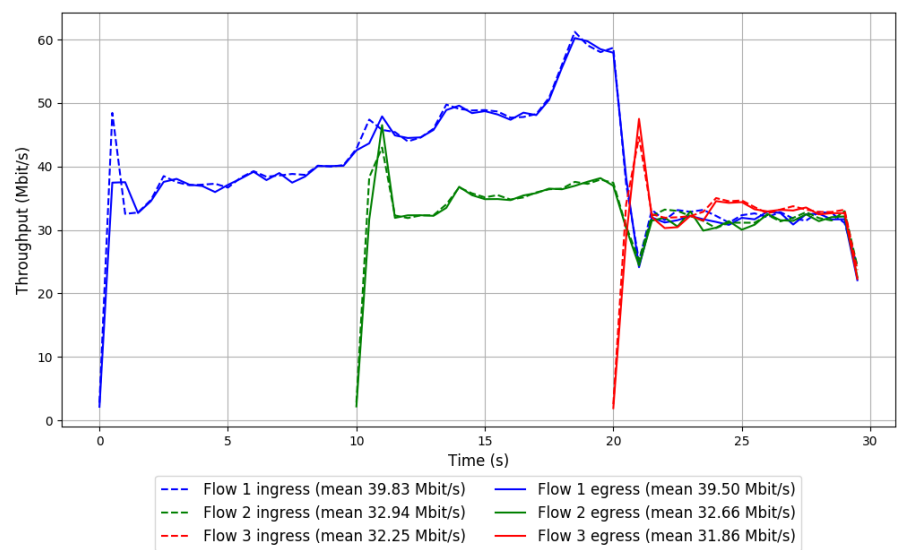


Run 6: Statistics of PCC-Allegro

Start at: 2018-04-24 19:10:35
End at: 2018-04-24 19:11:05
Local clock offset: -0.018 ms
Remote clock offset: -0.232 ms

Below is generated by plot.py at 2018-04-25 01:22:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 71.67 Mbit/s
95th percentile per-packet one-way delay: 78.376 ms
Loss rate: 1.23%
-- Flow 1:
Average throughput: 39.50 Mbit/s
95th percentile per-packet one-way delay: 78.655 ms
Loss rate: 1.05%
-- Flow 2:
Average throughput: 32.66 Mbit/s
95th percentile per-packet one-way delay: 78.914 ms
Loss rate: 1.24%
-- Flow 3:
Average throughput: 31.86 Mbit/s
95th percentile per-packet one-way delay: 58.949 ms
Loss rate: 1.86%

Run 6: Report of PCC-Allegro — Data Link

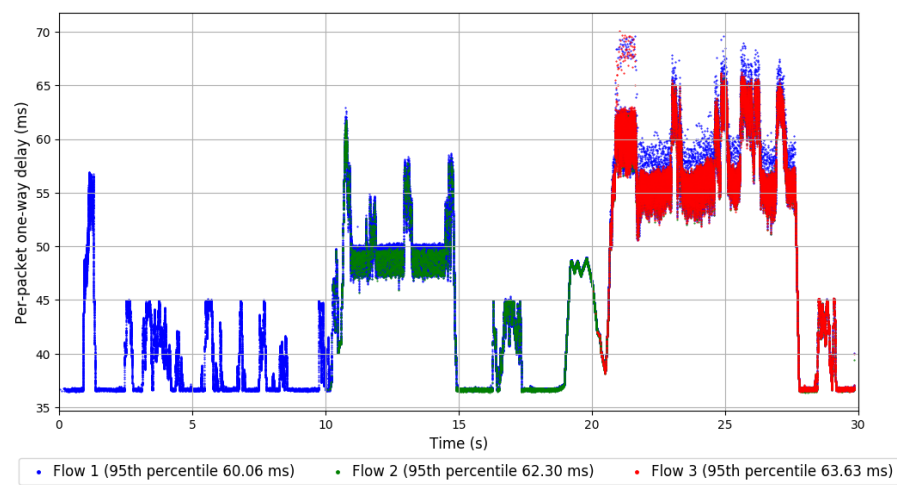
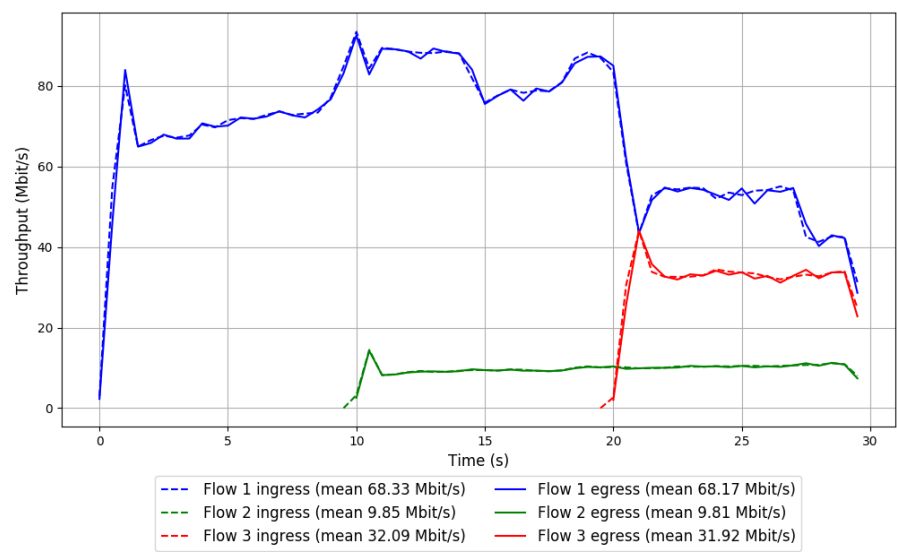


Run 7: Statistics of PCC-Allegro

Start at: 2018-04-24 19:34:37
End at: 2018-04-24 19:35:07
Local clock offset: 1.098 ms
Remote clock offset: -0.487 ms

Below is generated by plot.py at 2018-04-25 01:22:16
Datalink statistics
-- Total of 3 flows:
Average throughput: 85.18 Mbit/s
95th percentile per-packet one-way delay: 61.658 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 68.17 Mbit/s
95th percentile per-packet one-way delay: 60.061 ms
Loss rate: 0.45%
-- Flow 2:
Average throughput: 9.81 Mbit/s
95th percentile per-packet one-way delay: 62.303 ms
Loss rate: 0.74%
-- Flow 3:
Average throughput: 31.92 Mbit/s
95th percentile per-packet one-way delay: 63.632 ms
Loss rate: 1.25%

Run 7: Report of PCC-Allegro — Data Link



Run 8: Statistics of PCC-Allegro

Start at: 2018-04-24 19:58:15

End at: 2018-04-24 19:58:45

Local clock offset: 1.194 ms

Remote clock offset: 0.388 ms

Below is generated by plot.py at 2018-04-25 01:22:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 80.95 Mbit/s

95th percentile per-packet one-way delay: 76.686 ms

Loss rate: 1.00%

-- Flow 1:

Average throughput: 49.74 Mbit/s

95th percentile per-packet one-way delay: 75.604 ms

Loss rate: 0.77%

-- Flow 2:

Average throughput: 31.05 Mbit/s

95th percentile per-packet one-way delay: 78.903 ms

Loss rate: 1.24%

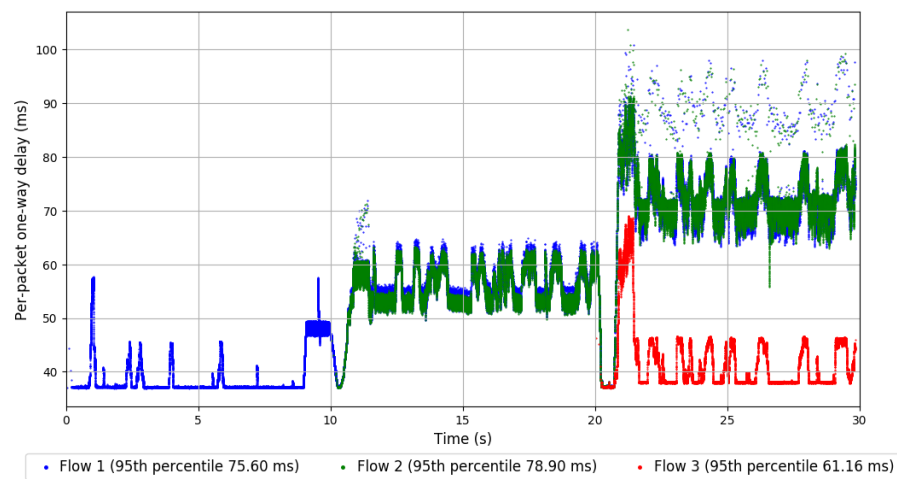
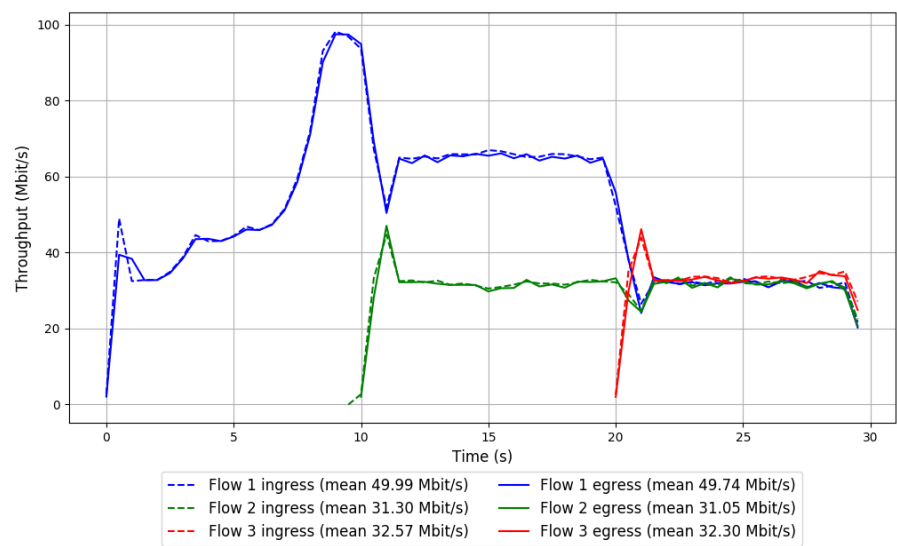
-- Flow 3:

Average throughput: 32.30 Mbit/s

95th percentile per-packet one-way delay: 61.164 ms

Loss rate: 1.56%

Run 8: Report of PCC-Allegro — Data Link



Run 9: Statistics of PCC-Allegro

Start at: 2018-04-24 20:22:07

End at: 2018-04-24 20:22:37

Local clock offset: 1.283 ms

Remote clock offset: 0.871 ms

Below is generated by plot.py at 2018-04-25 01:22:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 58.25 Mbit/s

95th percentile per-packet one-way delay: 72.764 ms

Loss rate: 1.05%

-- Flow 1:

Average throughput: 37.81 Mbit/s

95th percentile per-packet one-way delay: 74.416 ms

Loss rate: 0.82%

-- Flow 2:

Average throughput: 15.27 Mbit/s

95th percentile per-packet one-way delay: 45.901 ms

Loss rate: 1.48%

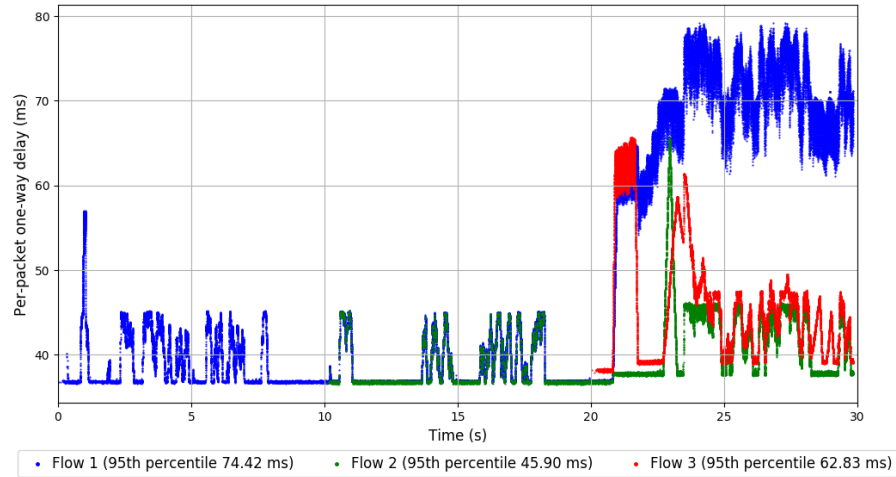
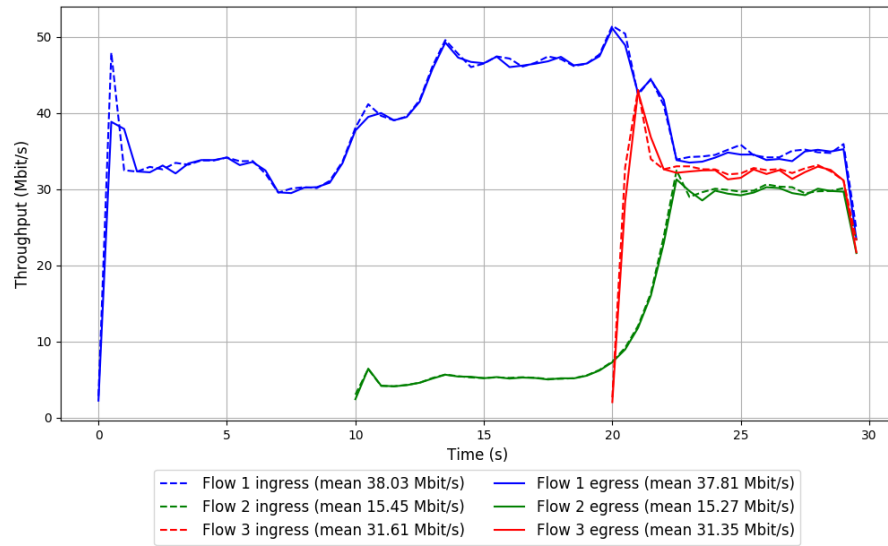
-- Flow 3:

Average throughput: 31.35 Mbit/s

95th percentile per-packet one-way delay: 62.831 ms

Loss rate: 1.48%

Run 9: Report of PCC-Allegro — Data Link



Run 10: Statistics of PCC-Allegro

Start at: 2018-04-24 20:46:41

End at: 2018-04-24 20:47:11

Local clock offset: 1.204 ms

Remote clock offset: 0.842 ms

Below is generated by plot.py at 2018-04-25 01:23:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 70.94 Mbit/s

95th percentile per-packet one-way delay: 72.599 ms

Loss rate: 1.35%

-- Flow 1:

Average throughput: 40.93 Mbit/s

95th percentile per-packet one-way delay: 74.106 ms

Loss rate: 1.16%

-- Flow 2:

Average throughput: 37.29 Mbit/s

95th percentile per-packet one-way delay: 60.453 ms

Loss rate: 1.54%

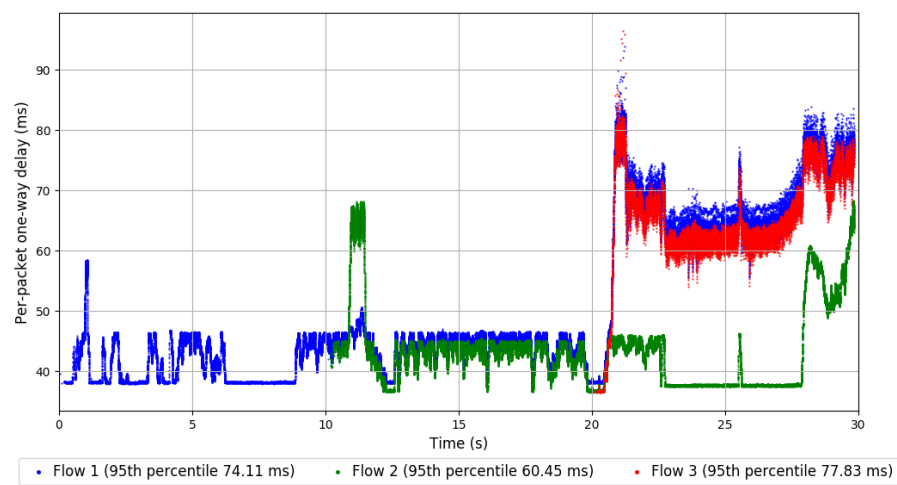
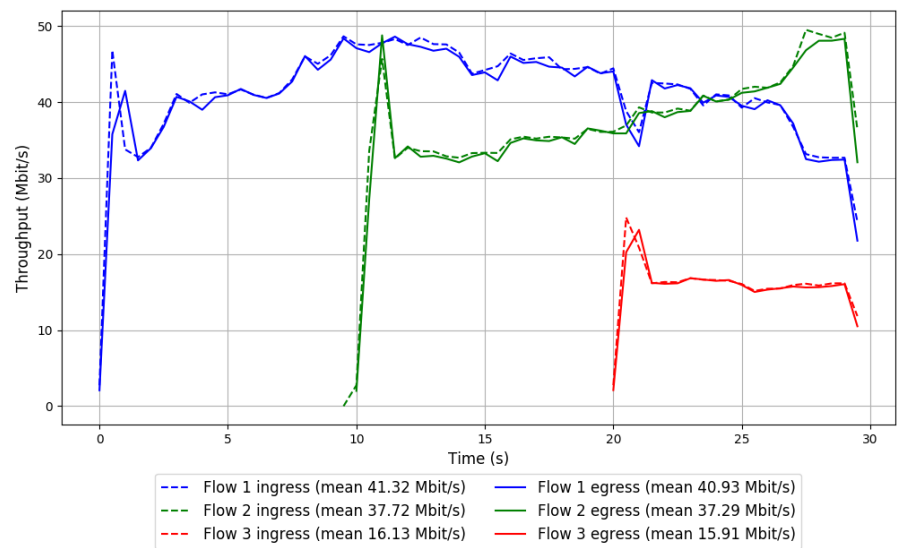
-- Flow 3:

Average throughput: 15.91 Mbit/s

95th percentile per-packet one-way delay: 77.829 ms

Loss rate: 1.96%

Run 10: Report of PCC-Allegro — Data Link

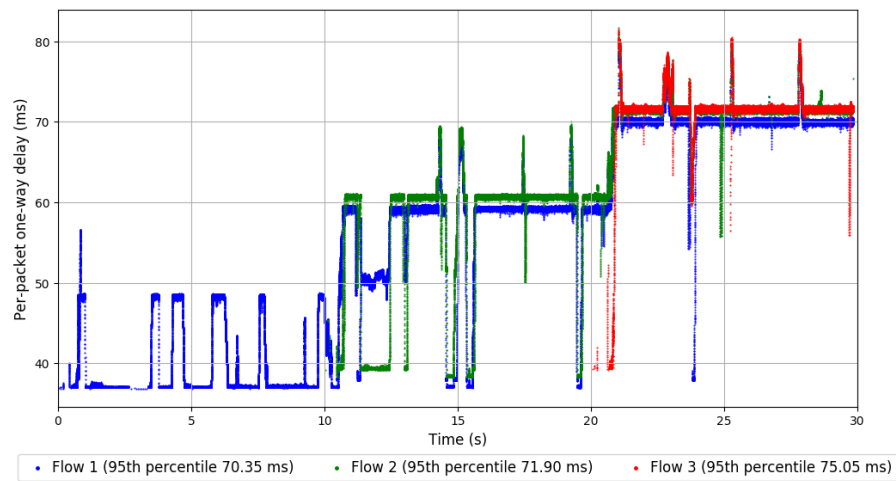
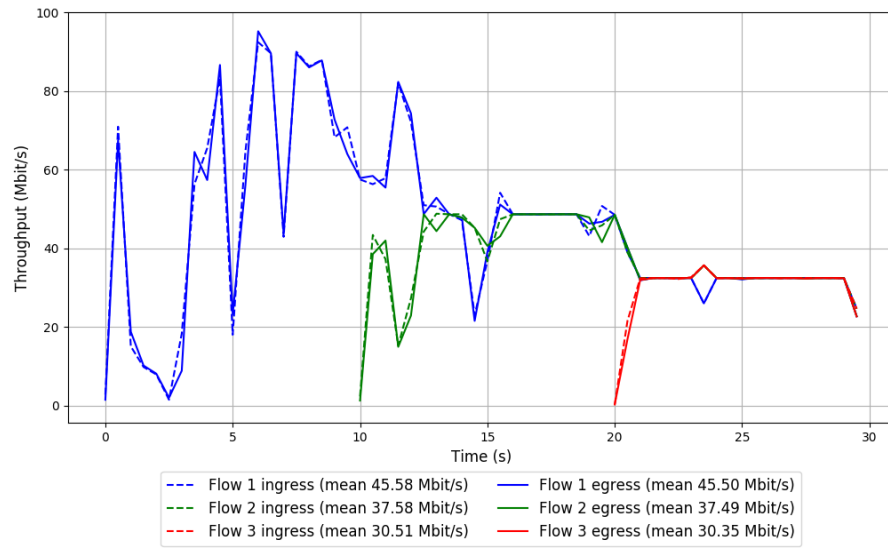


Run 1: Statistics of QUIC Cubic

Start at: 2018-04-24 17:19:27
End at: 2018-04-24 17:19:57
Local clock offset: 0.989 ms
Remote clock offset: -0.963 ms

Below is generated by plot.py at 2018-04-25 01:23:33
Datalink statistics
-- Total of 3 flows:
Average throughput: 80.36 Mbit/s
95th percentile per-packet one-way delay: 71.911 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 45.50 Mbit/s
95th percentile per-packet one-way delay: 70.347 ms
Loss rate: 0.39%
-- Flow 2:
Average throughput: 37.49 Mbit/s
95th percentile per-packet one-way delay: 71.896 ms
Loss rate: 0.65%
-- Flow 3:
Average throughput: 30.35 Mbit/s
95th percentile per-packet one-way delay: 75.045 ms
Loss rate: 1.22%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-04-24 17:43:18

End at: 2018-04-24 17:43:48

Local clock offset: 1.202 ms

Remote clock offset: 0.029 ms

Below is generated by plot.py at 2018-04-25 01:23:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 56.14 Mbit/s

95th percentile per-packet one-way delay: 57.423 ms

Loss rate: 1.00%

-- Flow 1:

Average throughput: 25.85 Mbit/s

95th percentile per-packet one-way delay: 49.677 ms

Loss rate: 0.82%

-- Flow 2:

Average throughput: 28.37 Mbit/s

95th percentile per-packet one-way delay: 58.118 ms

Loss rate: 0.90%

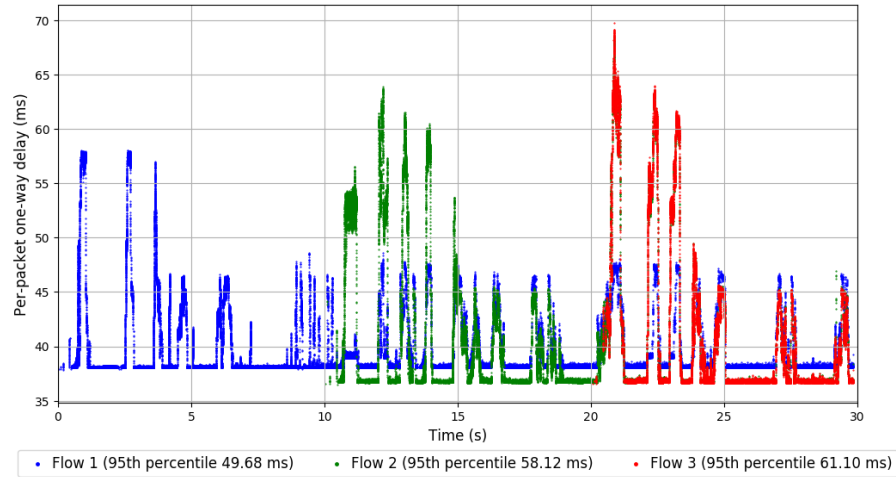
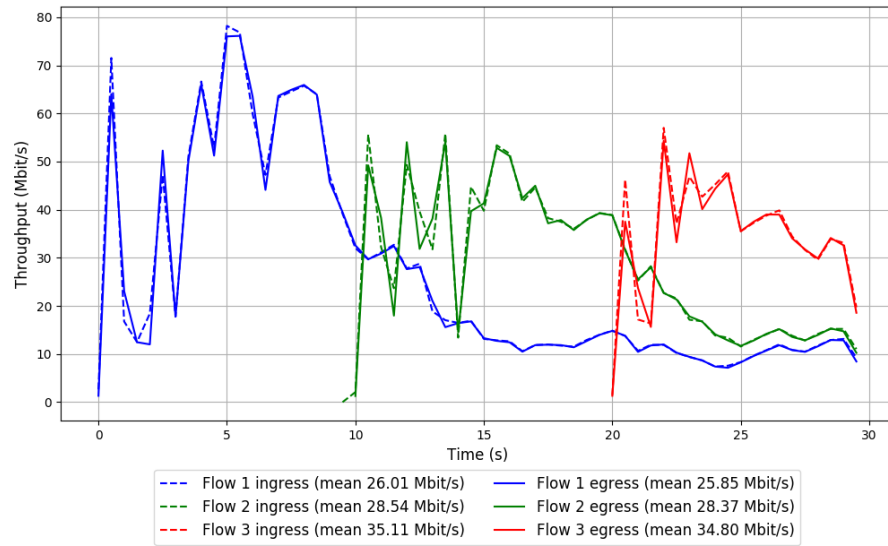
-- Flow 3:

Average throughput: 34.80 Mbit/s

95th percentile per-packet one-way delay: 61.103 ms

Loss rate: 1.56%

Run 2: Report of QUIC Cubic — Data Link

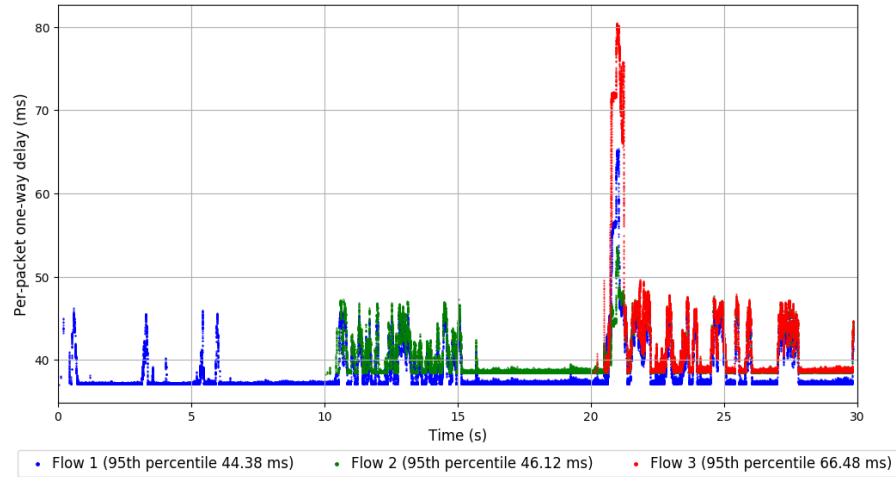
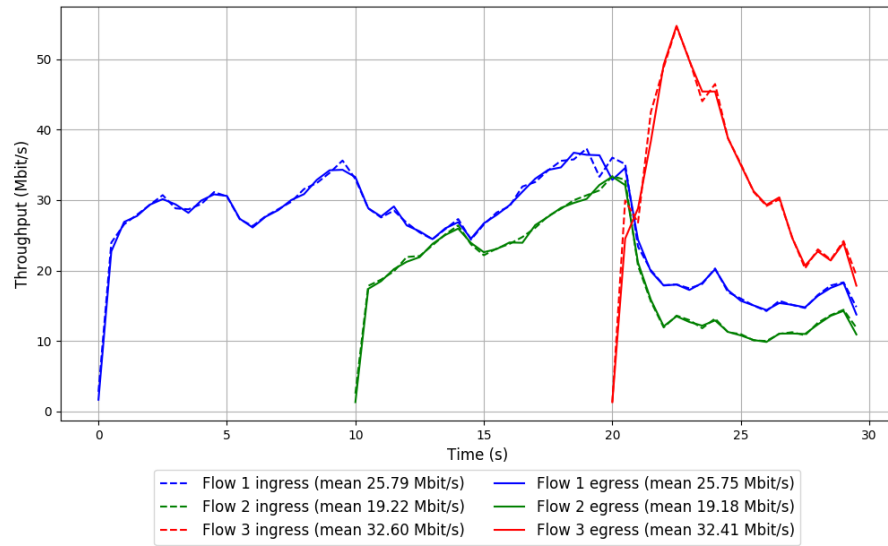


Run 3: Statistics of QUIC Cubic

Start at: 2018-04-24 18:07:14
End at: 2018-04-24 18:07:44
Local clock offset: 1.551 ms
Remote clock offset: -0.215 ms

Below is generated by plot.py at 2018-04-25 01:23:33
Datalink statistics
-- Total of 3 flows:
Average throughput: 49.12 Mbit/s
95th percentile per-packet one-way delay: 46.234 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 25.75 Mbit/s
95th percentile per-packet one-way delay: 44.375 ms
Loss rate: 0.39%
-- Flow 2:
Average throughput: 19.18 Mbit/s
95th percentile per-packet one-way delay: 46.122 ms
Loss rate: 0.57%
-- Flow 3:
Average throughput: 32.41 Mbit/s
95th percentile per-packet one-way delay: 66.480 ms
Loss rate: 1.29%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-04-24 18:31:29

End at: 2018-04-24 18:31:59

Local clock offset: 0.786 ms

Remote clock offset: 0.317 ms

Below is generated by plot.py at 2018-04-25 01:23:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 46.11 Mbit/s

95th percentile per-packet one-way delay: 52.493 ms

Loss rate: 0.93%

-- Flow 1:

Average throughput: 20.75 Mbit/s

95th percentile per-packet one-way delay: 44.822 ms

Loss rate: 0.72%

-- Flow 2:

Average throughput: 18.84 Mbit/s

95th percentile per-packet one-way delay: 46.298 ms

Loss rate: 0.87%

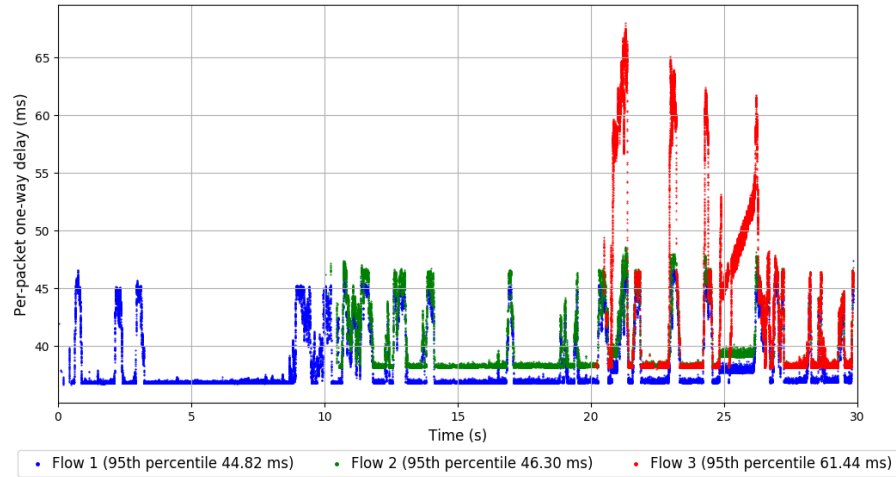
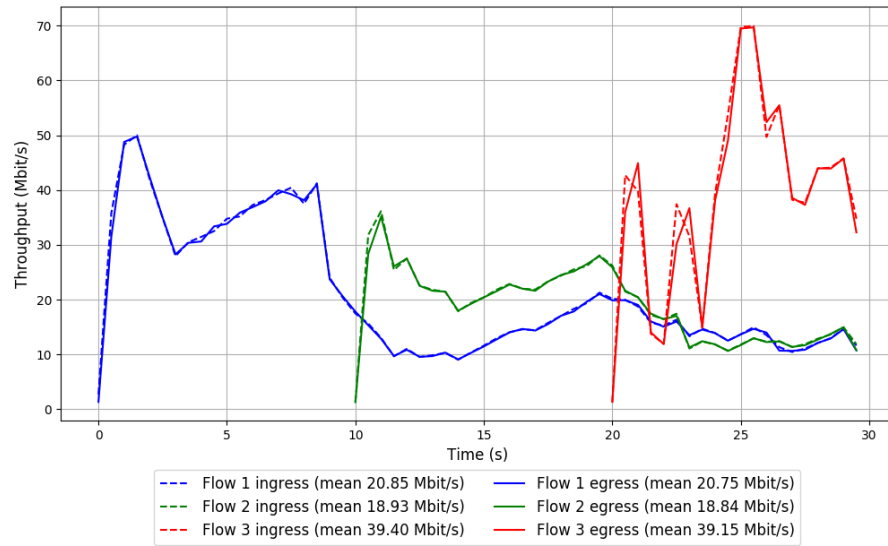
-- Flow 3:

Average throughput: 39.15 Mbit/s

95th percentile per-packet one-way delay: 61.442 ms

Loss rate: 1.32%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-04-24 18:56:14

End at: 2018-04-24 18:56:44

Local clock offset: 0.248 ms

Remote clock offset: 0.951 ms

Below is generated by plot.py at 2018-04-25 01:23:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 42.46 Mbit/s

95th percentile per-packet one-way delay: 46.681 ms

Loss rate: 1.07%

-- Flow 1:

Average throughput: 21.46 Mbit/s

95th percentile per-packet one-way delay: 52.553 ms

Loss rate: 1.20%

-- Flow 2:

Average throughput: 20.57 Mbit/s

95th percentile per-packet one-way delay: 46.347 ms

Loss rate: 0.86%

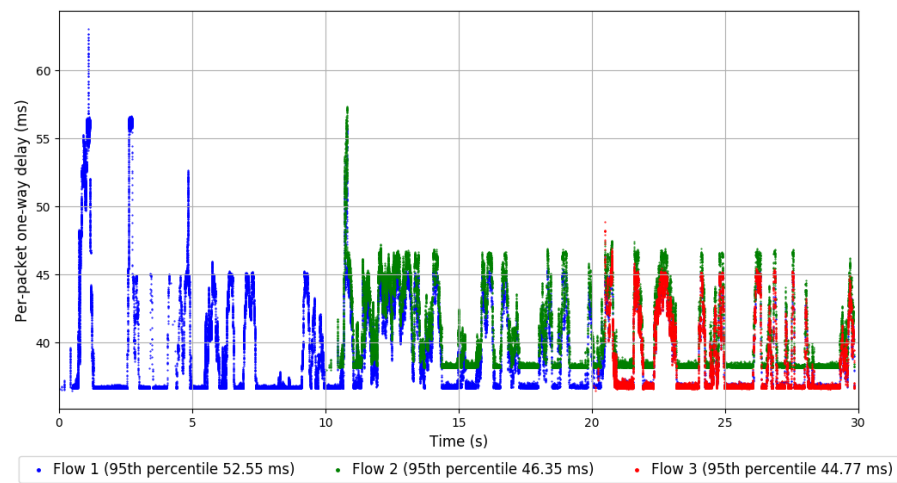
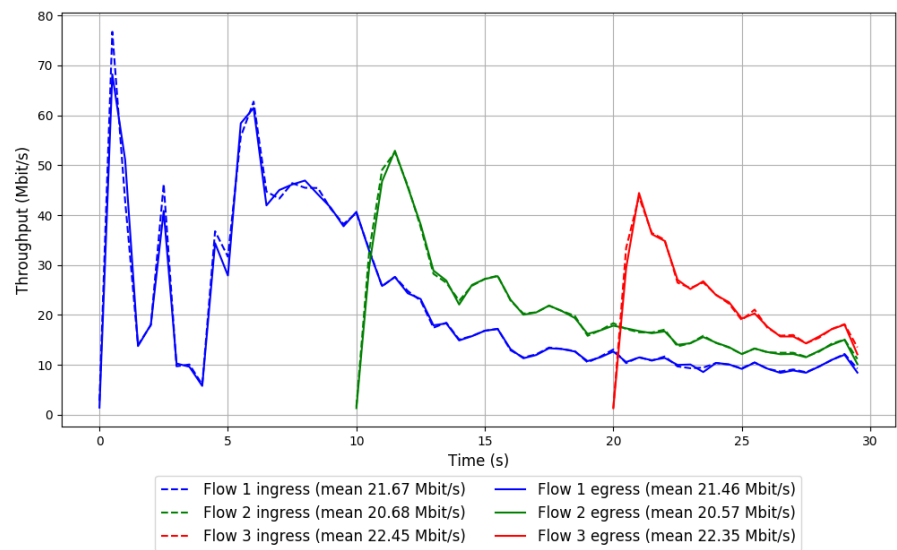
-- Flow 3:

Average throughput: 22.35 Mbit/s

95th percentile per-packet one-way delay: 44.771 ms

Loss rate: 1.11%

Run 5: Report of QUIC Cubic — Data Link

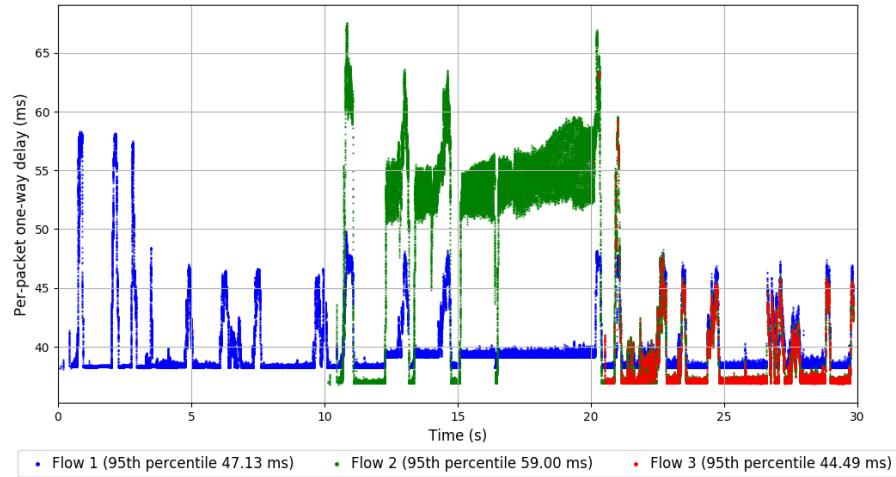
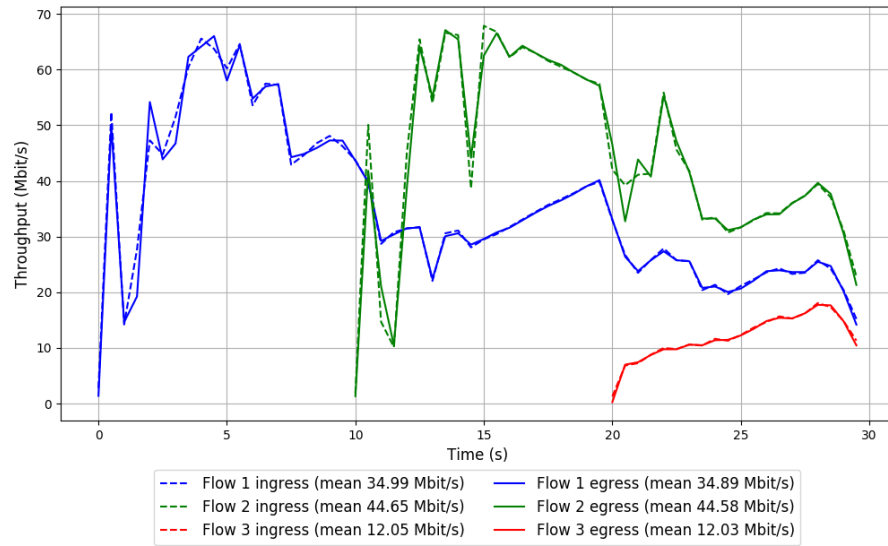


Run 6: Statistics of QUIC Cubic

Start at: 2018-04-24 19:20:35
End at: 2018-04-24 19:21:05
Local clock offset: 0.316 ms
Remote clock offset: -0.597 ms

Below is generated by plot.py at 2018-04-25 01:24:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 68.43 Mbit/s
95th percentile per-packet one-way delay: 56.913 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 34.89 Mbit/s
95th percentile per-packet one-way delay: 47.127 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 44.58 Mbit/s
95th percentile per-packet one-way delay: 58.997 ms
Loss rate: 0.50%
-- Flow 3:
Average throughput: 12.03 Mbit/s
95th percentile per-packet one-way delay: 44.493 ms
Loss rate: 0.97%

Run 6: Report of QUIC Cubic — Data Link

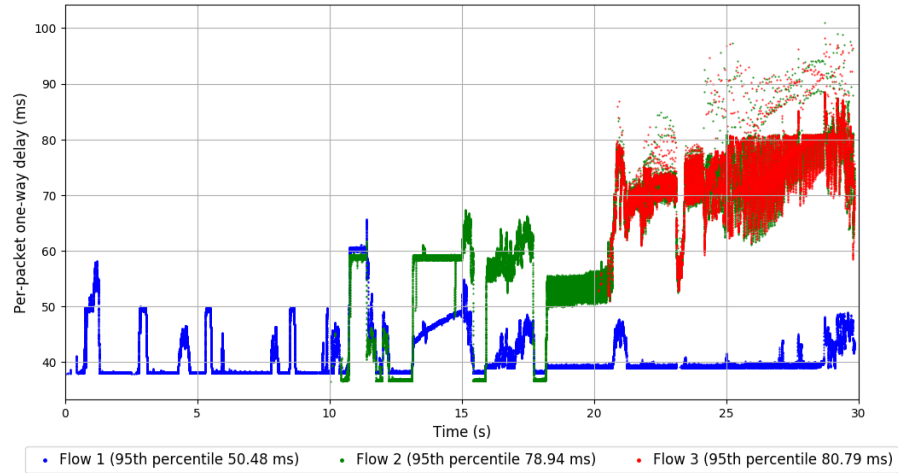
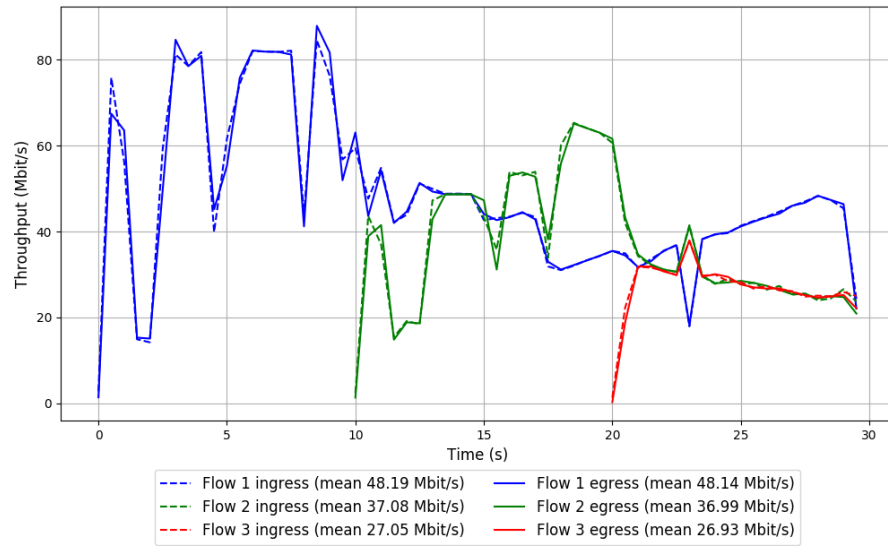


Run 7: Statistics of QUIC Cubic

Start at: 2018-04-24 19:44:30
End at: 2018-04-24 19:45:00
Local clock offset: 1.29 ms
Remote clock offset: 0.282 ms

Below is generated by plot.py at 2018-04-25 01:24:32
Datalink statistics
-- Total of 3 flows:
Average throughput: 81.53 Mbit/s
95th percentile per-packet one-way delay: 77.015 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 48.14 Mbit/s
95th percentile per-packet one-way delay: 50.478 ms
Loss rate: 0.33%
-- Flow 2:
Average throughput: 36.99 Mbit/s
95th percentile per-packet one-way delay: 78.939 ms
Loss rate: 0.63%
-- Flow 3:
Average throughput: 26.93 Mbit/s
95th percentile per-packet one-way delay: 80.786 ms
Loss rate: 1.44%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-04-24 20:08:04

End at: 2018-04-24 20:08:34

Local clock offset: 1.241 ms

Remote clock offset: 0.646 ms

Below is generated by plot.py at 2018-04-25 01:24:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 69.61 Mbit/s

95th percentile per-packet one-way delay: 70.540 ms

Loss rate: 0.58%

-- Flow 1:

Average throughput: 29.71 Mbit/s

95th percentile per-packet one-way delay: 44.767 ms

Loss rate: 0.45%

-- Flow 2:

Average throughput: 44.01 Mbit/s

95th percentile per-packet one-way delay: 71.505 ms

Loss rate: 0.53%

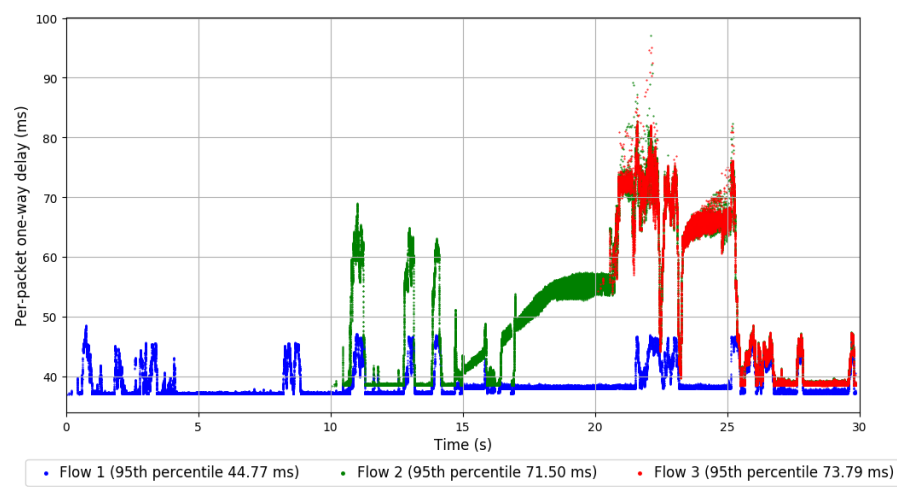
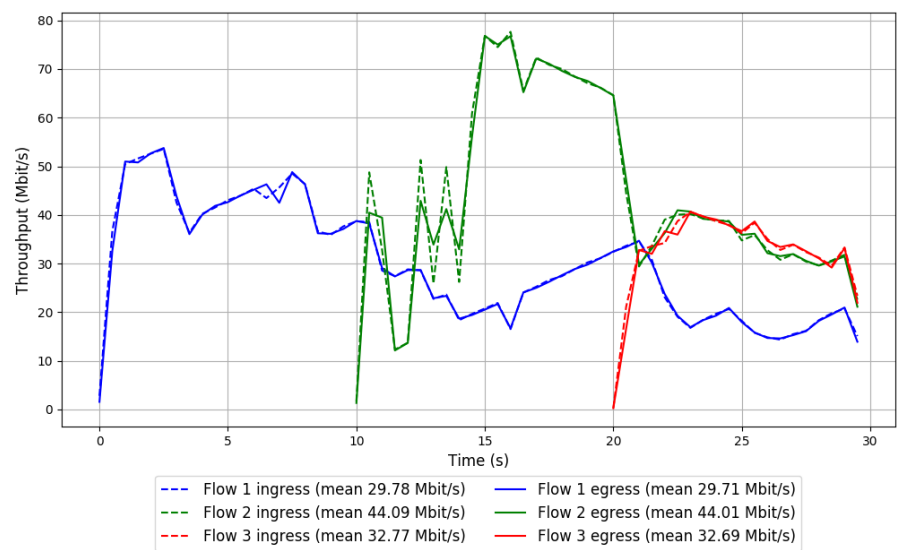
-- Flow 3:

Average throughput: 32.69 Mbit/s

95th percentile per-packet one-way delay: 73.793 ms

Loss rate: 1.08%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-04-24 20:32:38

End at: 2018-04-24 20:33:08

Local clock offset: 1.199 ms

Remote clock offset: 0.48 ms

Below is generated by plot.py at 2018-04-25 01:24:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 56.28 Mbit/s

95th percentile per-packet one-way delay: 60.781 ms

Loss rate: 0.77%

-- Flow 1:

Average throughput: 29.53 Mbit/s

95th percentile per-packet one-way delay: 54.163 ms

Loss rate: 0.72%

-- Flow 2:

Average throughput: 17.87 Mbit/s

95th percentile per-packet one-way delay: 44.916 ms

Loss rate: 0.58%

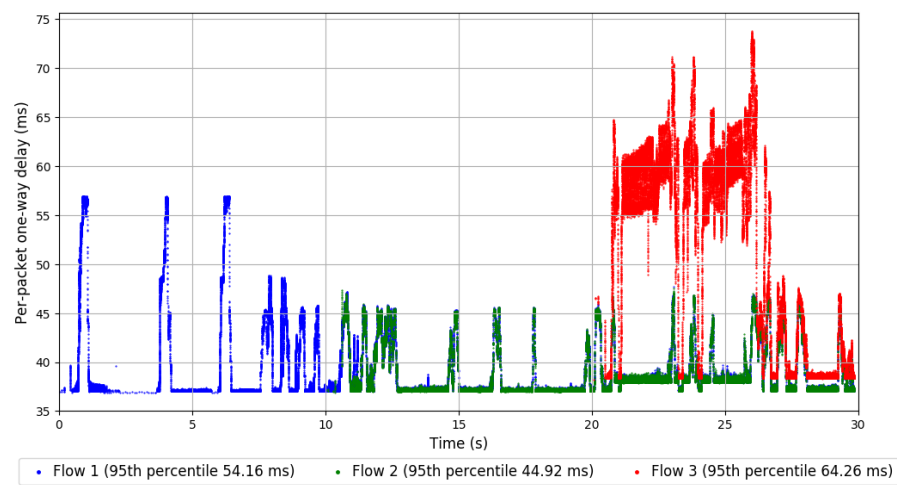
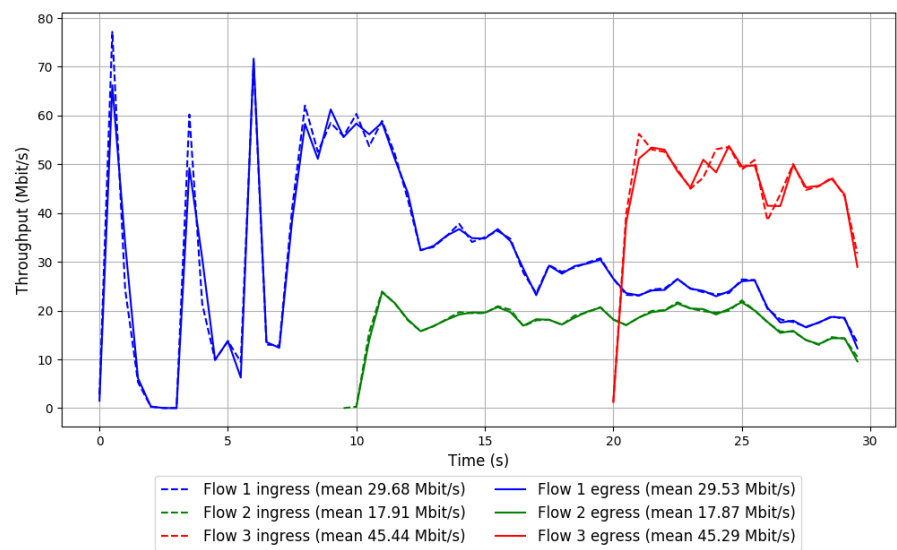
-- Flow 3:

Average throughput: 45.29 Mbit/s

95th percentile per-packet one-way delay: 64.260 ms

Loss rate: 1.02%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-04-24 20:57:12

End at: 2018-04-24 20:57:42

Local clock offset: 1.316 ms

Remote clock offset: 0.002 ms

Below is generated by plot.py at 2018-04-25 01:24:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 52.19 Mbit/s

95th percentile per-packet one-way delay: 57.698 ms

Loss rate: 1.15%

-- Flow 1:

Average throughput: 23.04 Mbit/s

95th percentile per-packet one-way delay: 48.357 ms

Loss rate: 1.03%

-- Flow 2:

Average throughput: 27.05 Mbit/s

95th percentile per-packet one-way delay: 59.191 ms

Loss rate: 1.06%

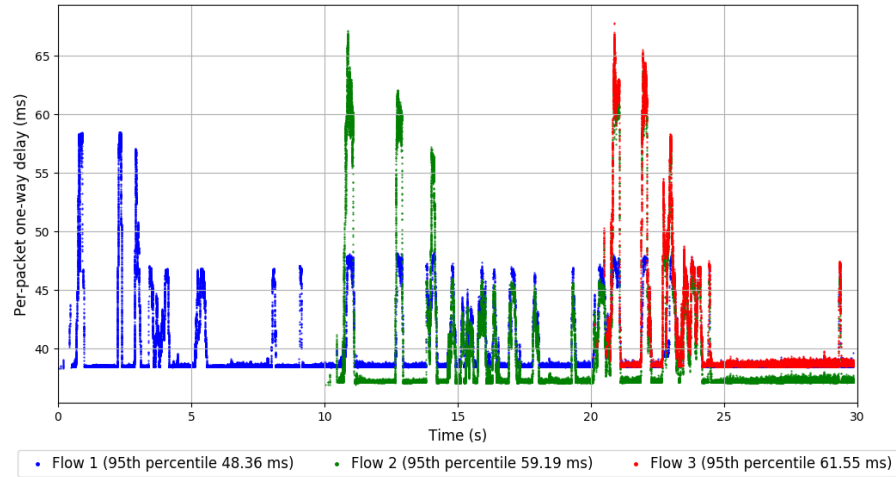
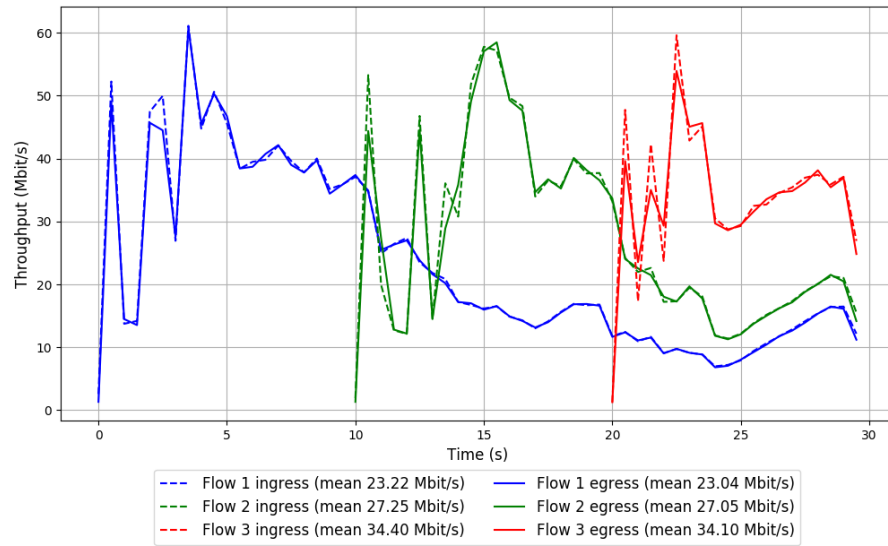
-- Flow 3:

Average throughput: 34.10 Mbit/s

95th percentile per-packet one-way delay: 61.552 ms

Loss rate: 1.57%

Run 10: Report of QUIC Cubic — Data Link

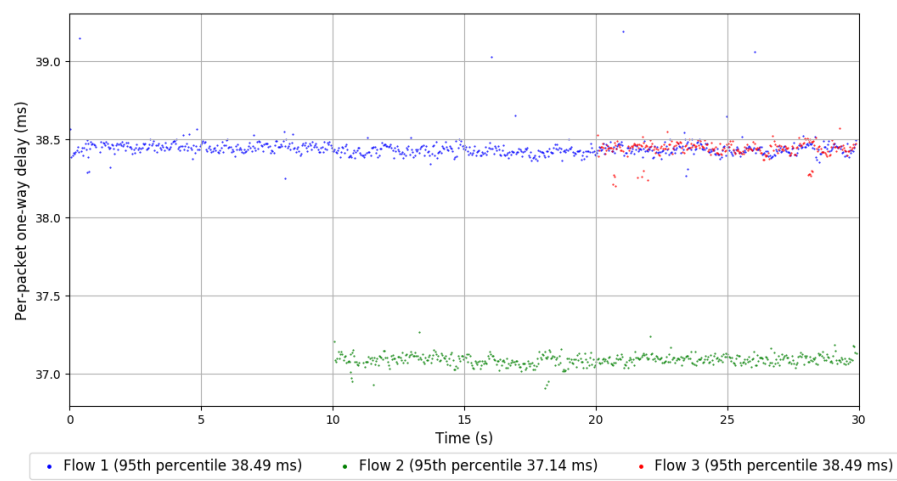
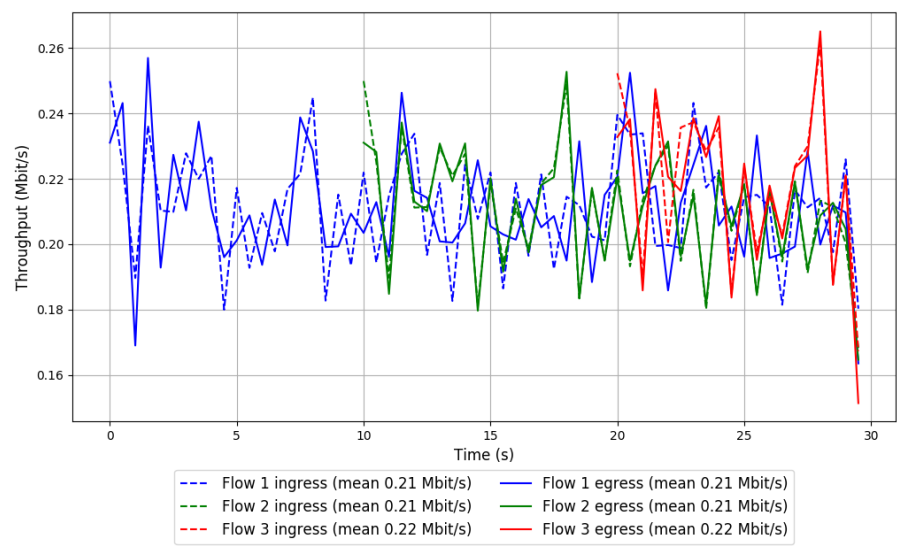


```
Run 1: Statistics of SReAM

Start at: 2018-04-24 17:12:30
End at: 2018-04-24 17:13:00
Local clock offset: 0.902 ms
Remote clock offset: -0.778 ms

# Below is generated by plot.py at 2018-04-25 01:24:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 38.483 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 38.488 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 37.138 ms
Loss rate: 0.20%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 38.492 ms
Loss rate: 0.73%
```

Run 1: Report of SReAM — Data Link

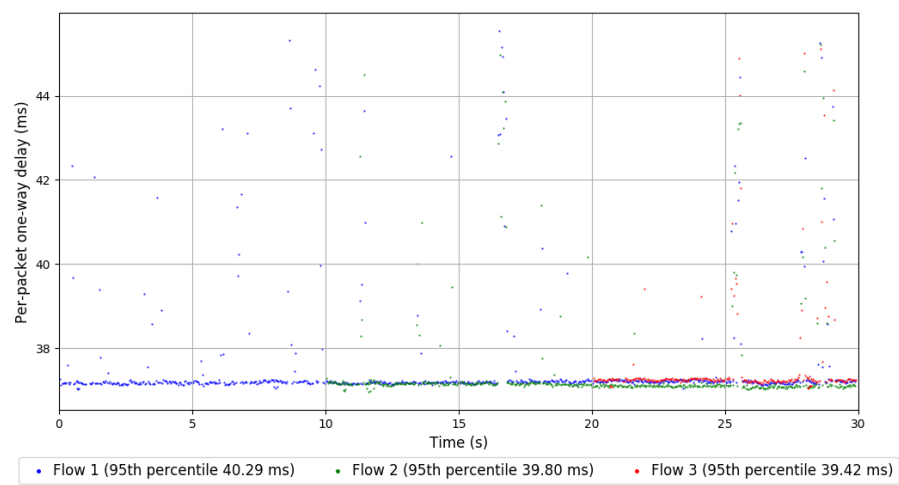
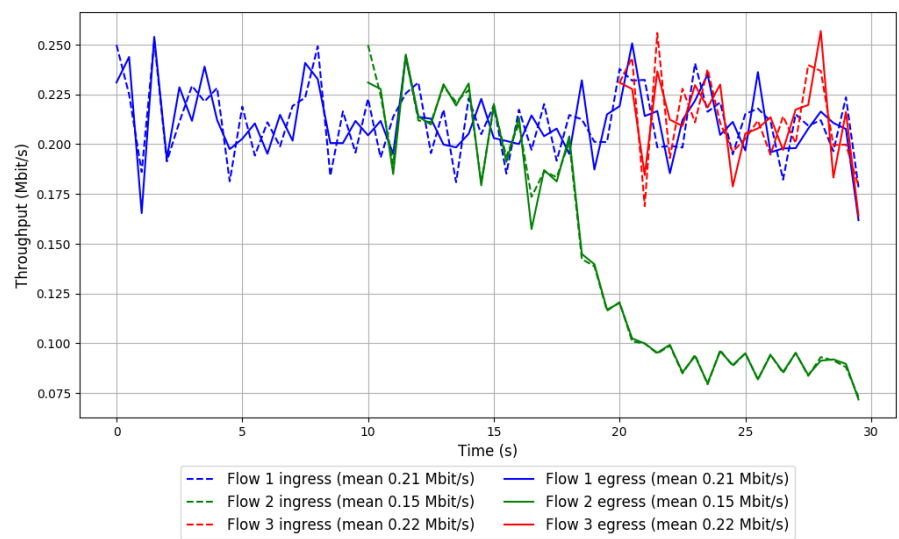


Run 2: Statistics of SReAM

Start at: 2018-04-24 17:36:04
End at: 2018-04-24 17:36:34
Local clock offset: 1.282 ms
Remote clock offset: -0.438 ms

Below is generated by plot.py at 2018-04-25 01:24:32
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.38 Mbit/s
95th percentile per-packet one-way delay: 40.003 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 40.288 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 39.796 ms
Loss rate: 0.42%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 39.416 ms
Loss rate: 0.35%

Run 2: Report of SReAM — Data Link

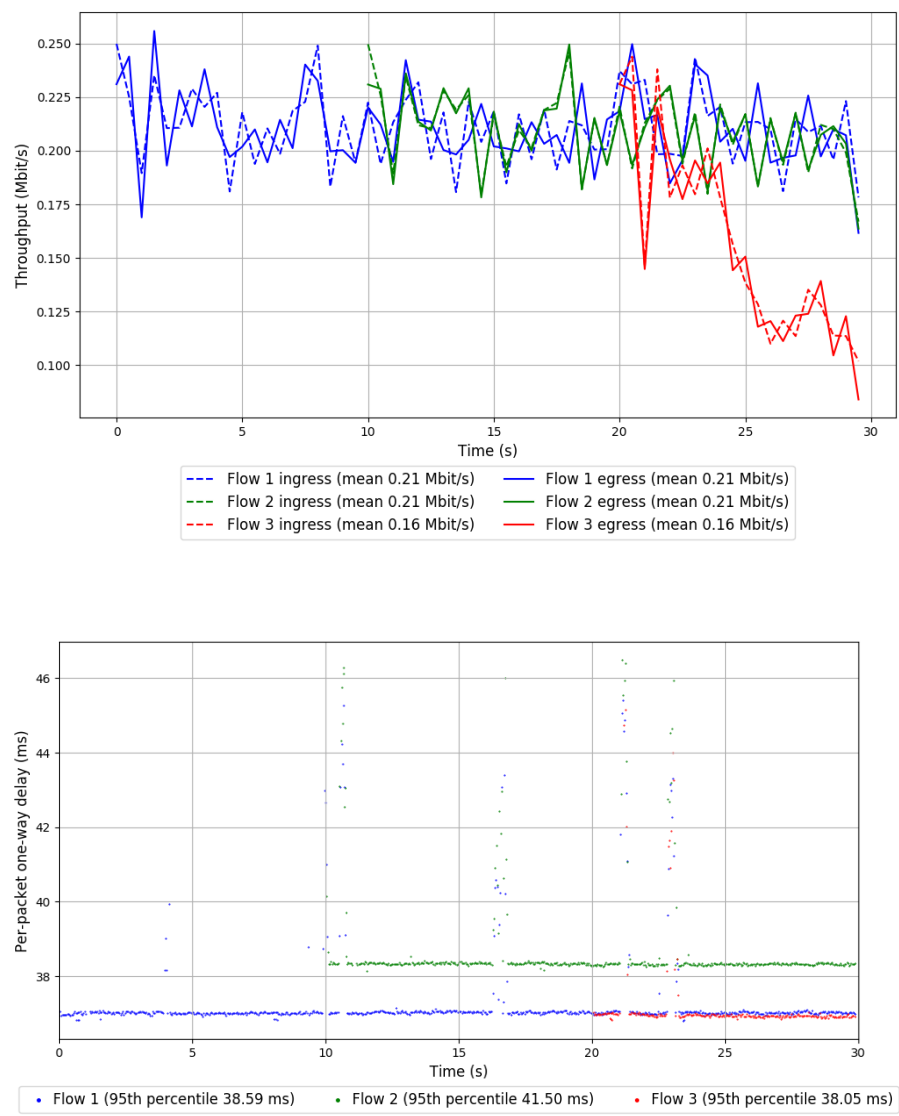


Run 3: Statistics of SCReAM

Start at: 2018-04-24 18:00:02
End at: 2018-04-24 18:00:32
Local clock offset: 1.418 ms
Remote clock offset: -0.296 ms

Below is generated by plot.py at 2018-04-25 01:24:32
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.40 Mbit/s
95th percentile per-packet one-way delay: 39.389 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 38.585 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 41.504 ms
Loss rate: 0.20%
-- Flow 3:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 38.047 ms
Loss rate: 1.09%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

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

End at: 2018-04-24 18:24:34

Local clock offset: 0.969 ms

Remote clock offset: 0.228 ms

Below is generated by plot.py at 2018-04-25 01:24:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.24 Mbit/s

95th percentile per-packet one-way delay: 41.734 ms

Loss rate: 0.84%

-- Flow 1:

Average throughput: 0.12 Mbit/s

95th percentile per-packet one-way delay: 42.188 ms

Loss rate: 0.52%

-- Flow 2:

Average throughput: 0.12 Mbit/s

95th percentile per-packet one-way delay: 40.584 ms

Loss rate: 1.16%

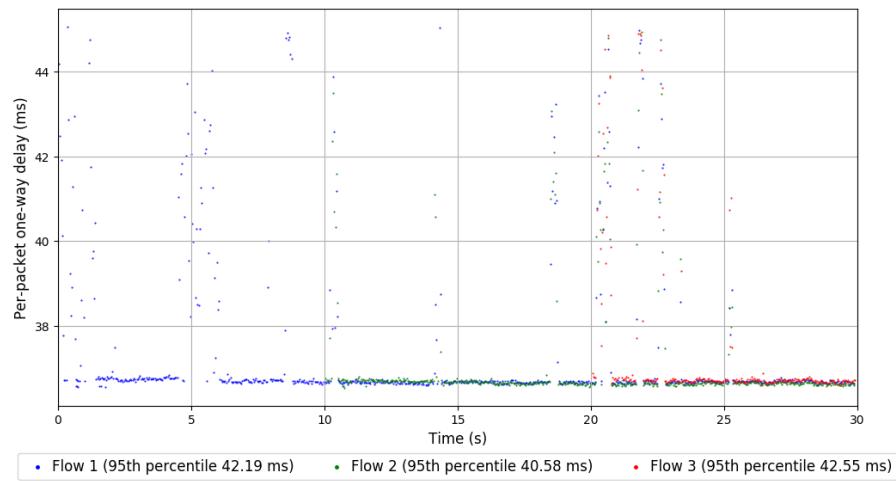
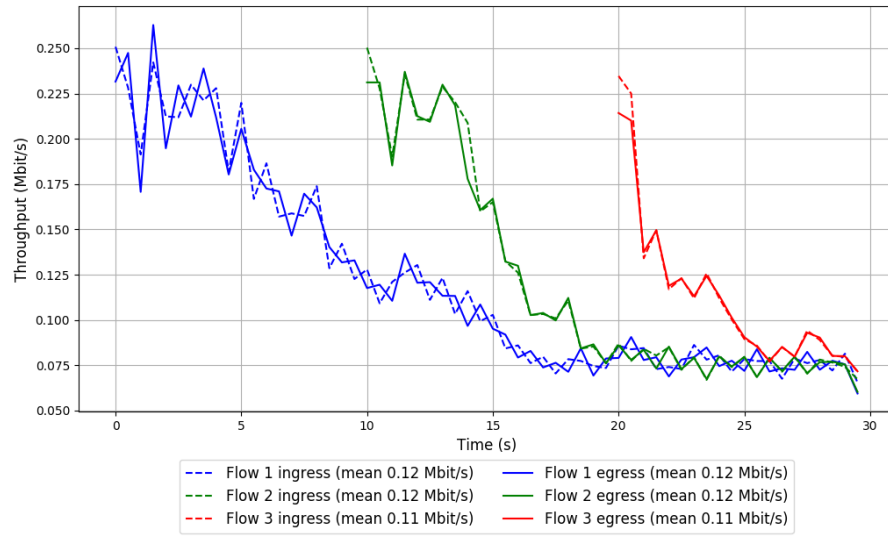
-- Flow 3:

Average throughput: 0.11 Mbit/s

95th percentile per-packet one-way delay: 42.546 ms

Loss rate: 1.18%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2018-04-24 18:48:27

End at: 2018-04-24 18:48:57

Local clock offset: 0.311 ms

Remote clock offset: 0.425 ms

Below is generated by plot.py at 2018-04-25 01:24:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.25 Mbit/s

95th percentile per-packet one-way delay: 42.434 ms

Loss rate: 0.59%

-- Flow 1:

Average throughput: 0.11 Mbit/s

95th percentile per-packet one-way delay: 42.751 ms

Loss rate: 0.48%

-- Flow 2:

Average throughput: 0.13 Mbit/s

95th percentile per-packet one-way delay: 42.210 ms

Loss rate: 0.44%

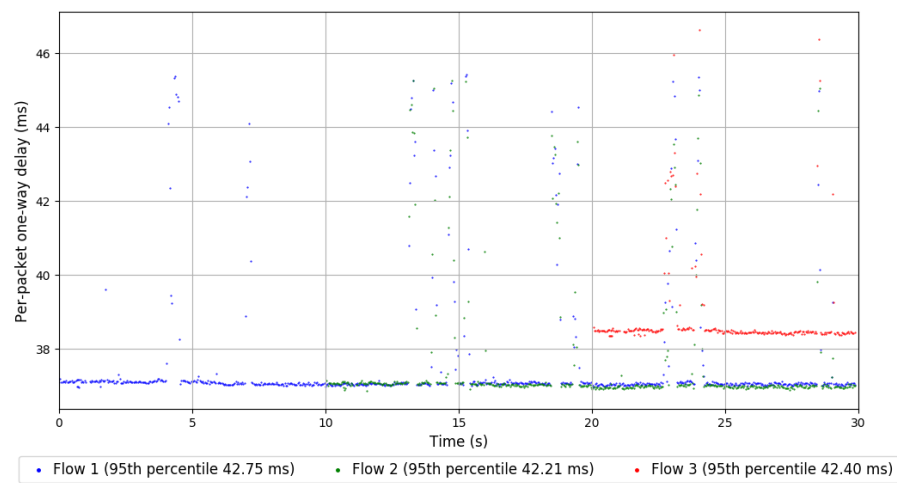
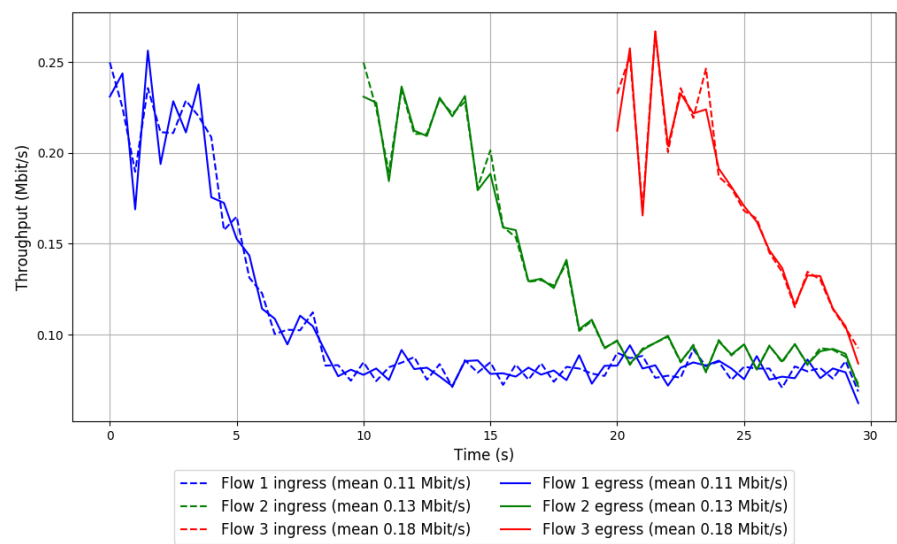
-- Flow 3:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 42.399 ms

Loss rate: 1.02%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-04-24 19:13:22

End at: 2018-04-24 19:13:52

Local clock offset: -0.153 ms

Remote clock offset: -0.46 ms

Below is generated by plot.py at 2018-04-25 01:24:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.34 Mbit/s

95th percentile per-packet one-way delay: 42.673 ms

Loss rate: 0.28%

-- Flow 1:

Average throughput: 0.12 Mbit/s

95th percentile per-packet one-way delay: 43.624 ms

Loss rate: 0.32%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 41.908 ms

Loss rate: 0.20%

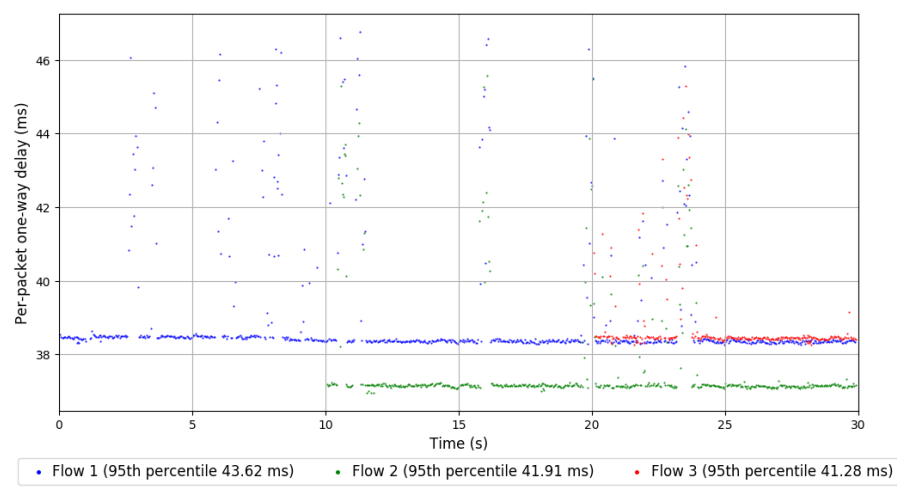
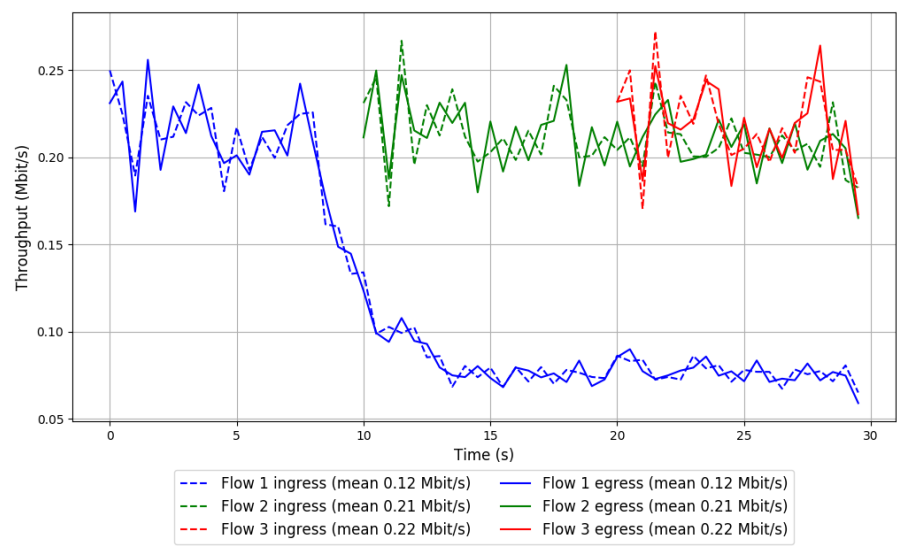
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 41.281 ms

Loss rate: 0.35%

Run 6: Report of SReAM — Data Link

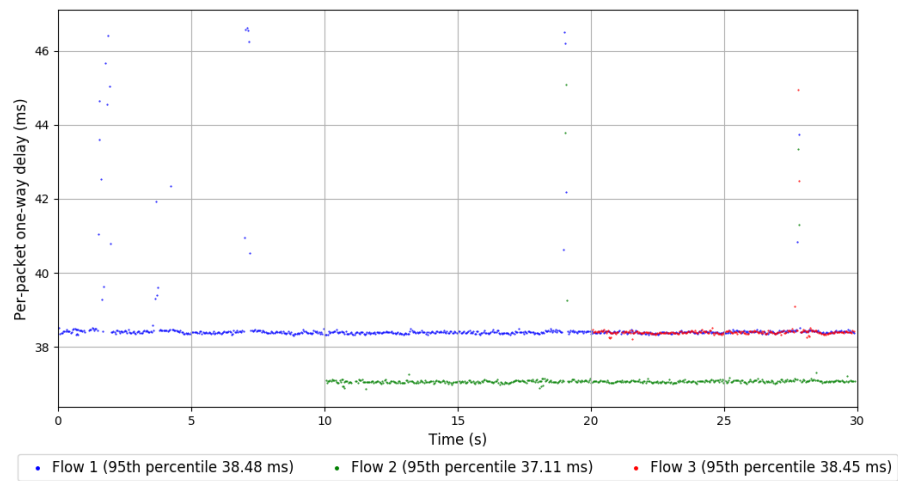
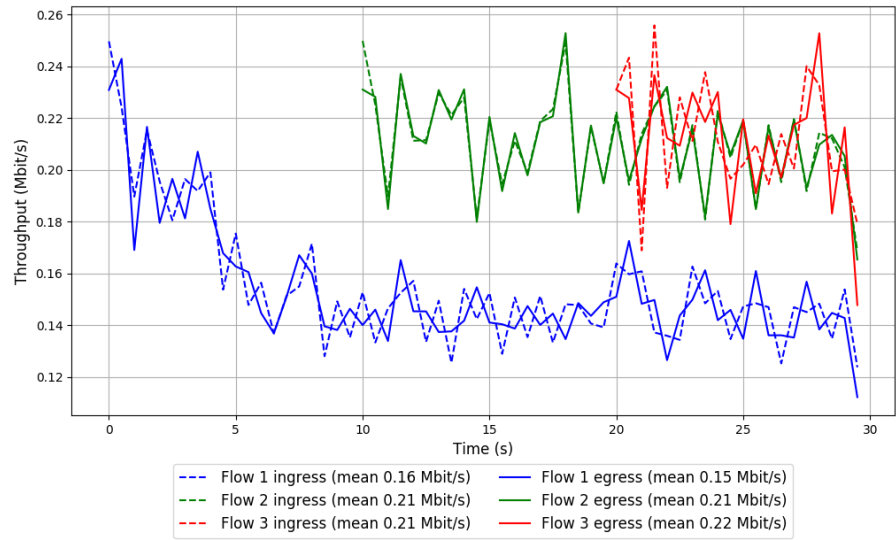


Run 7: Statistics of SReAM

Start at: 2018-04-24 19:37:29
End at: 2018-04-24 19:37:59
Local clock offset: 1.26 ms
Remote clock offset: -0.889 ms

Below is generated by plot.py at 2018-04-25 01:24:32
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.37 Mbit/s
95th percentile per-packet one-way delay: 38.447 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 38.480 ms
Loss rate: 0.45%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 37.108 ms
Loss rate: 0.20%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 38.445 ms
Loss rate: 0.74%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SReAM

Start at: 2018-04-24 20:01:02

End at: 2018-04-24 20:01:32

Local clock offset: 1.249 ms

Remote clock offset: 0.47 ms

Below is generated by plot.py at 2018-04-25 01:24:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 37.270 ms

Loss rate: 0.26%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 37.191 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 37.279 ms

Loss rate: 0.21%

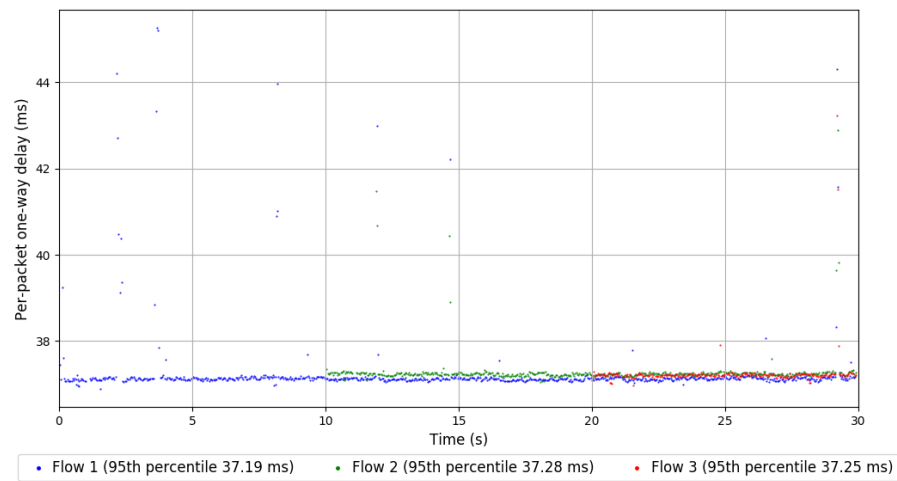
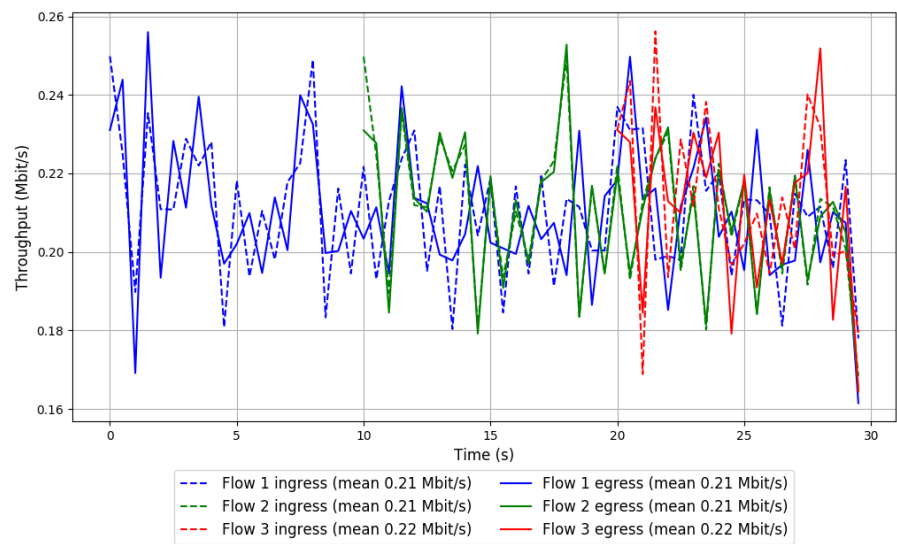
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 37.250 ms

Loss rate: 0.35%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SReAM

Start at: 2018-04-24 20:25:02

End at: 2018-04-24 20:25:32

Local clock offset: 1.301 ms

Remote clock offset: 0.416 ms

Below is generated by plot.py at 2018-04-25 01:24:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.32 Mbit/s

95th percentile per-packet one-way delay: 42.119 ms

Loss rate: 0.54%

-- Flow 1:

Average throughput: 0.11 Mbit/s

95th percentile per-packet one-way delay: 42.089 ms

Loss rate: 0.85%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 42.103 ms

Loss rate: 0.20%

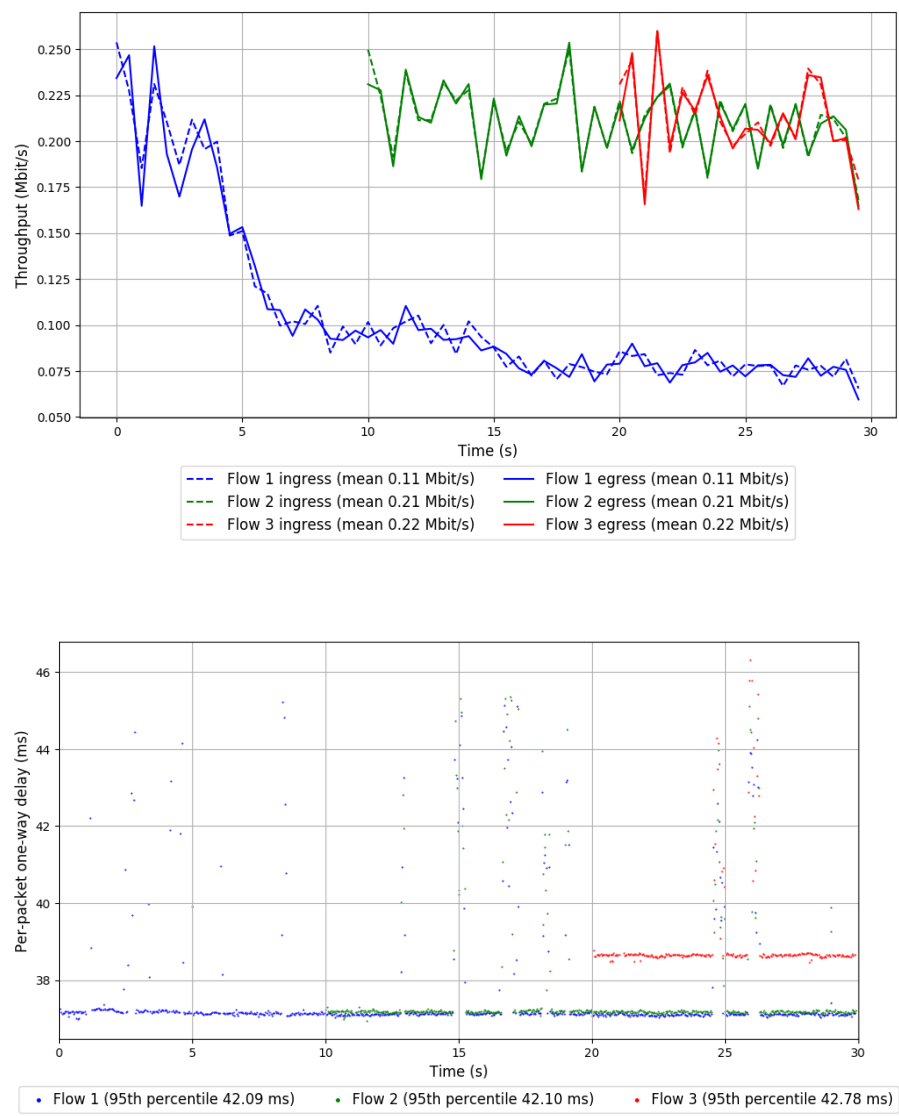
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 42.783 ms

Loss rate: 0.73%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-04-24 20:49:42

End at: 2018-04-24 20:50:12

Local clock offset: 1.148 ms

Remote clock offset: 0.203 ms

Below is generated by plot.py at 2018-04-25 01:24:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.28 Mbit/s

95th percentile per-packet one-way delay: 43.864 ms

Loss rate: 1.05%

-- Flow 1:

Average throughput: 0.10 Mbit/s

95th percentile per-packet one-way delay: 43.696 ms

Loss rate: 1.66%

-- Flow 2:

Average throughput: 0.20 Mbit/s

95th percentile per-packet one-way delay: 43.988 ms

Loss rate: 0.30%

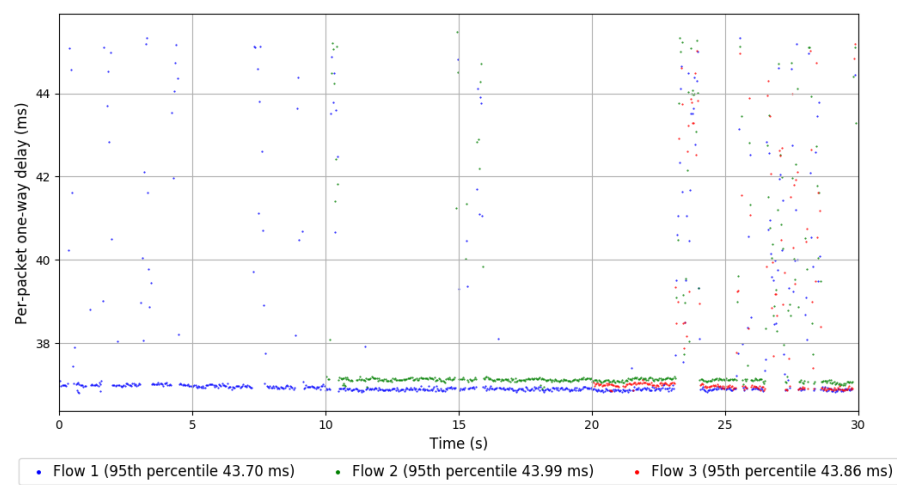
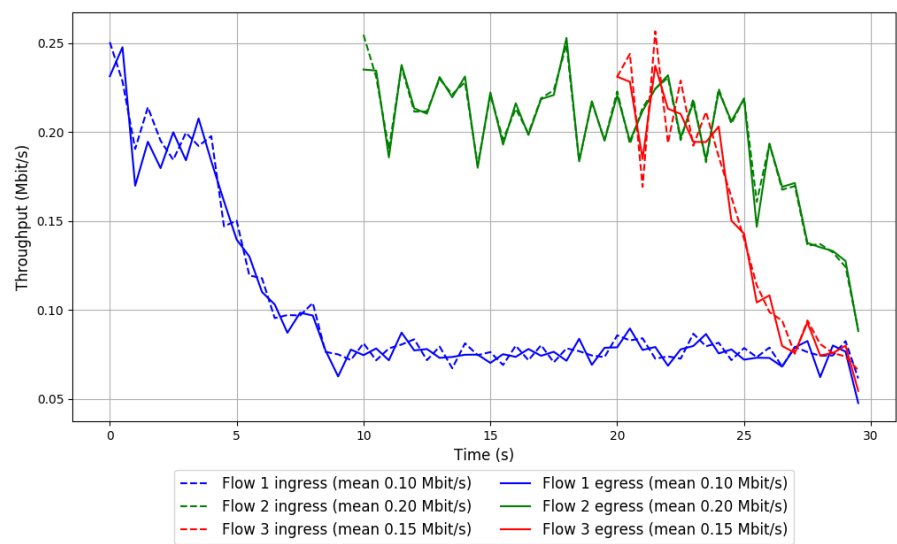
-- Flow 3:

Average throughput: 0.15 Mbit/s

95th percentile per-packet one-way delay: 43.864 ms

Loss rate: 1.81%

Run 10: Report of SCRaM — Data Link

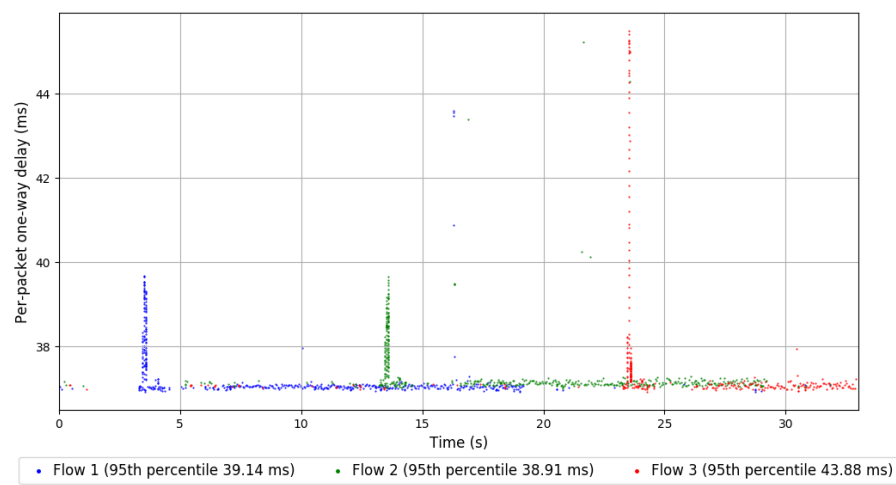
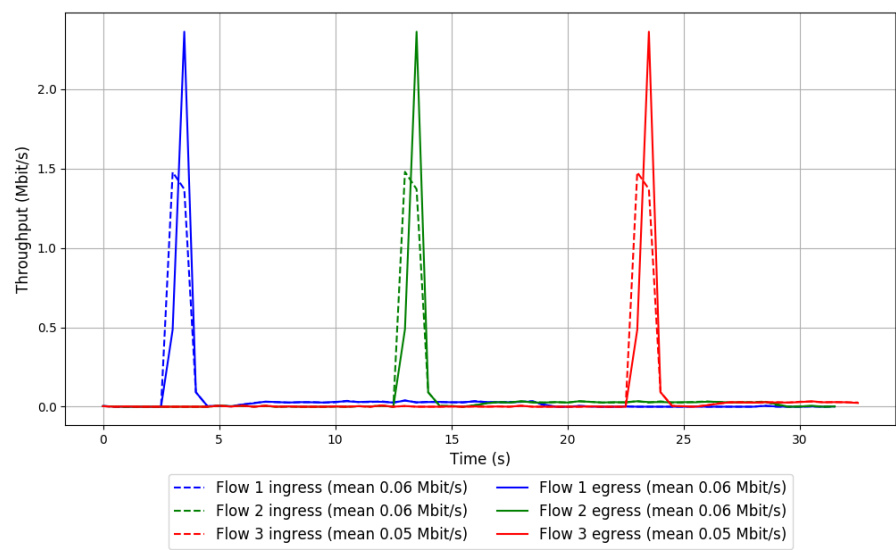


Run 1: Statistics of WebRTC media

Start at: 2018-04-24 17:08:25
End at: 2018-04-24 17:08:55
Local clock offset: 0.973 ms
Remote clock offset: -0.663 ms

Below is generated by plot.py at 2018-04-25 01:24:32
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 39.306 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 39.143 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 38.907 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 43.883 ms
Loss rate: 0.16%

Run 1: Report of WebRTC media — Data Link

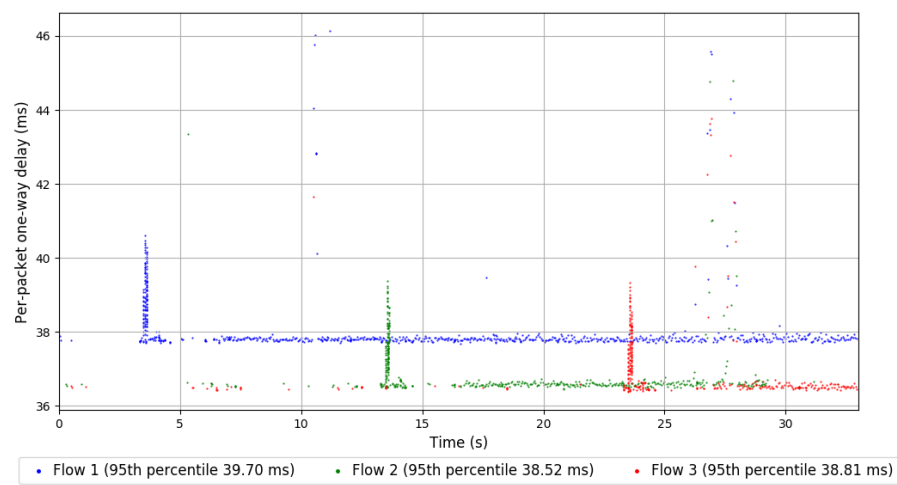
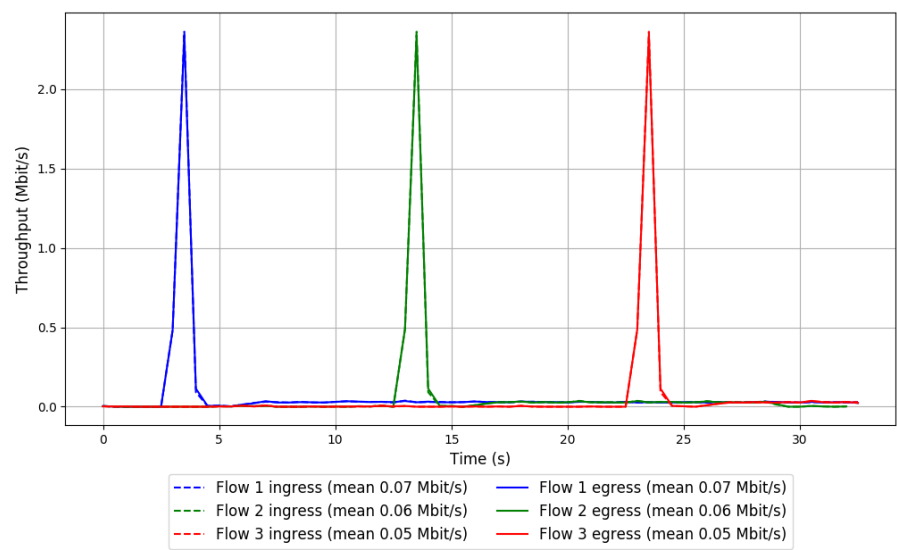


Run 2: Statistics of WebRTC media

Start at: 2018-04-24 17:31:58
End at: 2018-04-24 17:32:28
Local clock offset: 1.182 ms
Remote clock offset: -0.006 ms

Below is generated by plot.py at 2018-04-25 01:24:32
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 39.248 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 0.07 Mbit/s
95th percentile per-packet one-way delay: 39.700 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 38.524 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 38.813 ms
Loss rate: 0.16%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-04-24 17:55:51

End at: 2018-04-24 17:56:21

Local clock offset: 1.412 ms

Remote clock offset: -0.54 ms

Below is generated by plot.py at 2018-04-25 01:24:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 44.089 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 0.07 Mbit/s

95th percentile per-packet one-way delay: 43.897 ms

Loss rate: 0.12%

-- Flow 2:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 45.308 ms

Loss rate: 0.00%

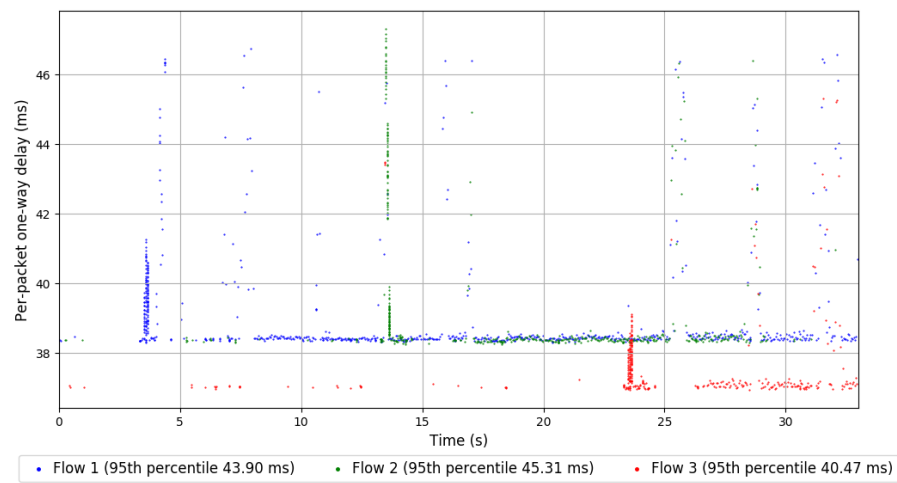
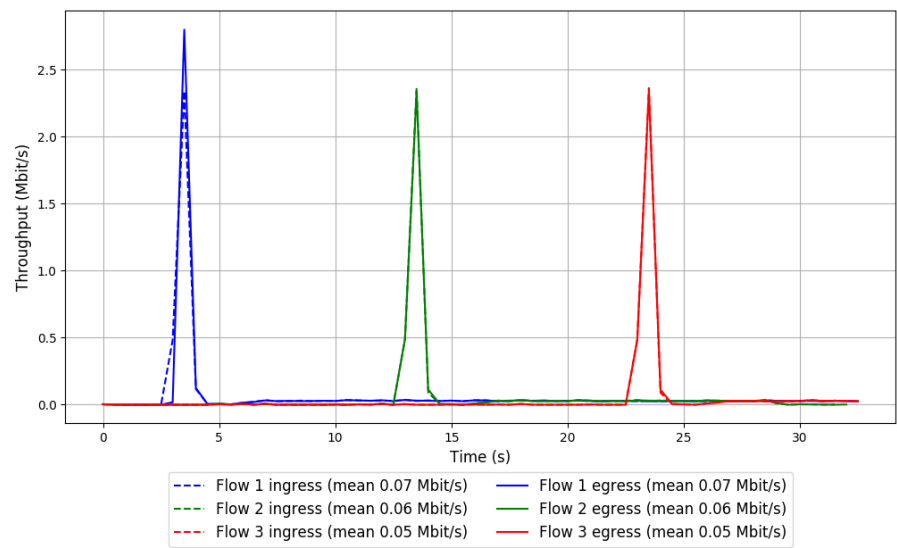
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 40.474 ms

Loss rate: 0.16%

Run 3: Report of WebRTC media — Data Link

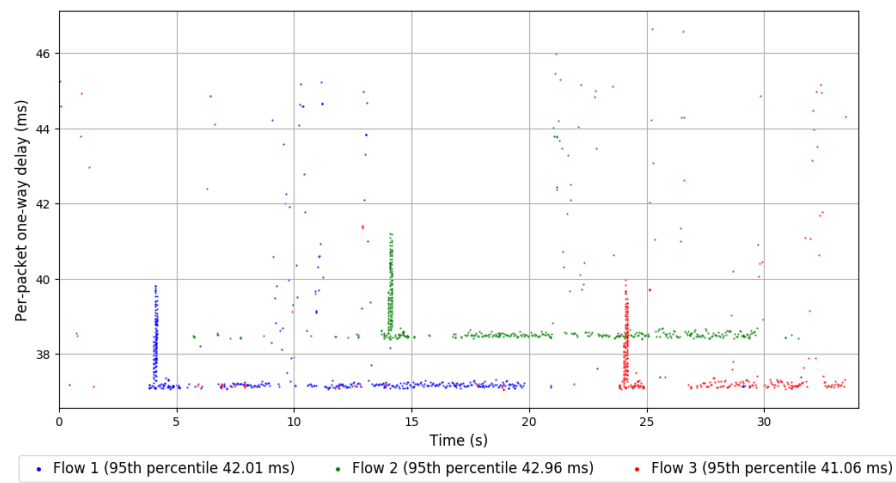
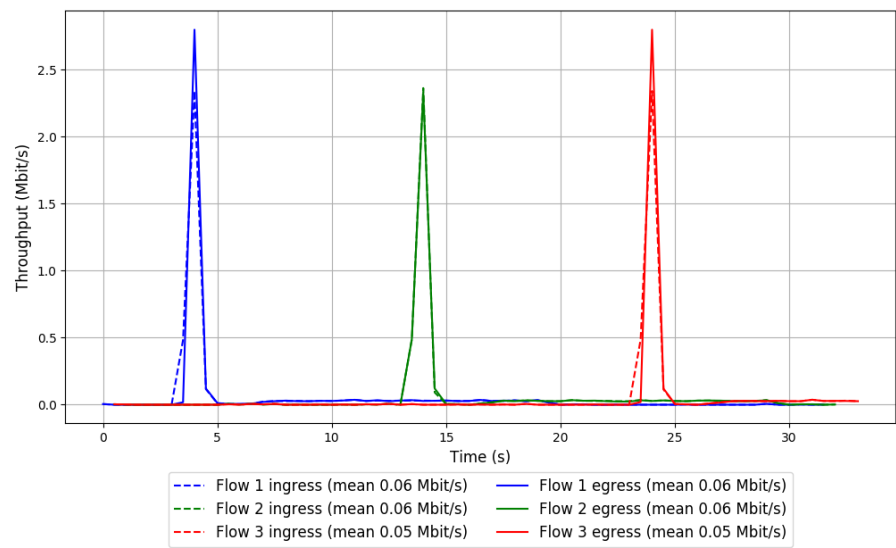


Run 4: Statistics of WebRTC media

Start at: 2018-04-24 18:19:37
End at: 2018-04-24 18:20:07
Local clock offset: 1.116 ms
Remote clock offset: -0.263 ms

Below is generated by plot.py at 2018-04-25 01:24:32
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 42.013 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 42.013 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 42.959 ms
Loss rate: 0.21%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 41.060 ms
Loss rate: 0.12%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-04-24 18:44:23

End at: 2018-04-24 18:44:53

Local clock offset: 0.429 ms

Remote clock offset: 0.313 ms

Below is generated by plot.py at 2018-04-25 01:24:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 43.638 ms

Loss rate: 0.31%

-- Flow 1:

Average throughput: 0.07 Mbit/s

95th percentile per-packet one-way delay: 42.934 ms

Loss rate: 0.23%

-- Flow 2:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 44.056 ms

Loss rate: 0.41%

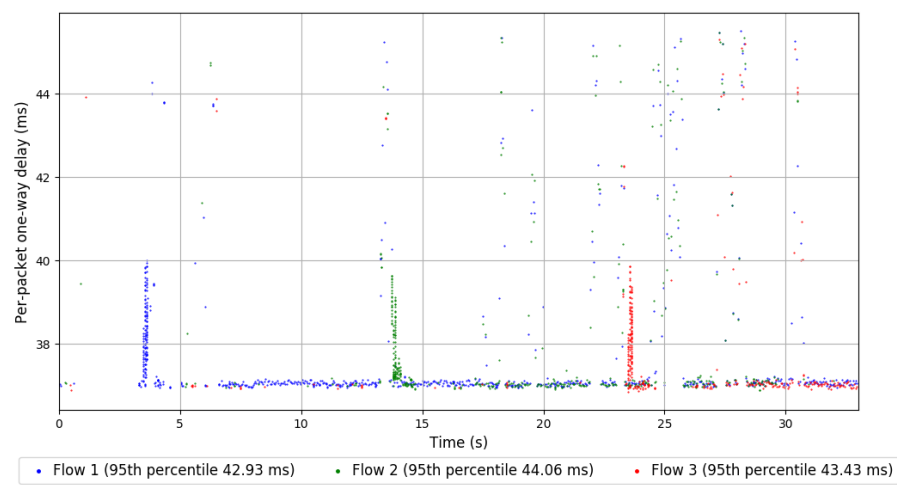
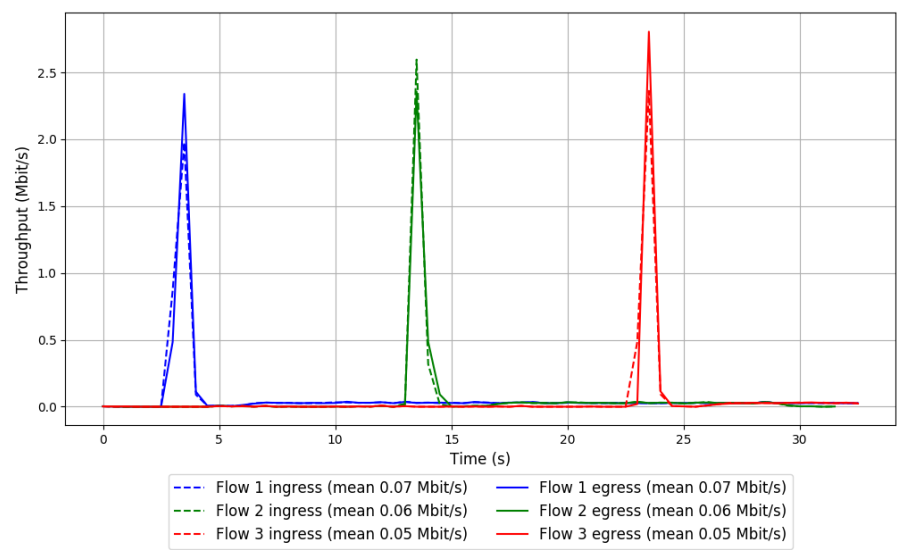
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 43.431 ms

Loss rate: 0.28%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-04-24 19:09:17

End at: 2018-04-24 19:09:47

Local clock offset: -0.113 ms

Remote clock offset: 0.354 ms

Below is generated by plot.py at 2018-04-25 01:24:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.16 Mbit/s

95th percentile per-packet one-way delay: 44.243 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 38.771 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 45.910 ms

Loss rate: 0.00%

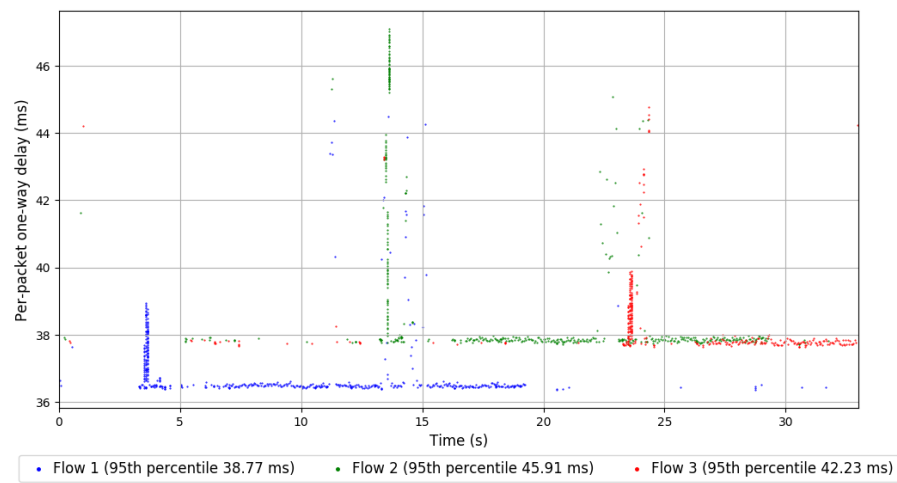
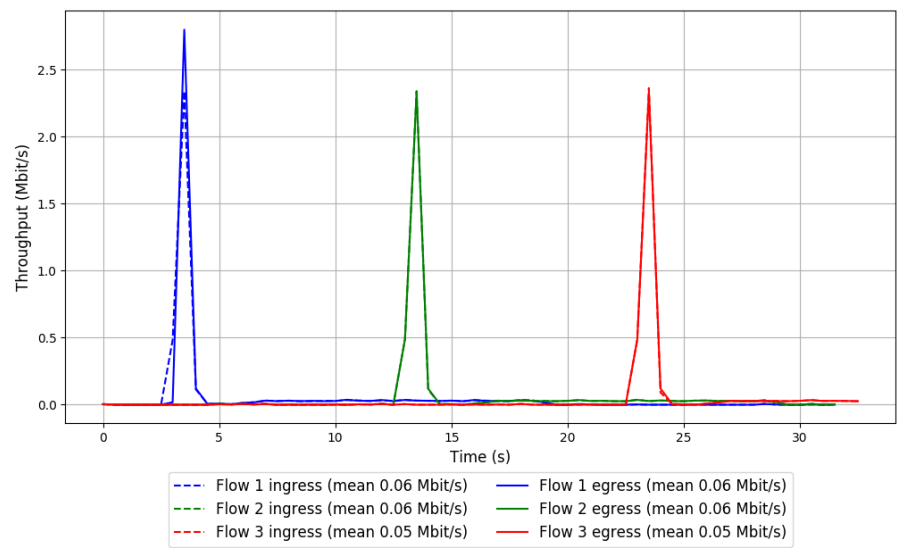
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 42.226 ms

Loss rate: 0.08%

Run 6: Report of WebRTC media — Data Link

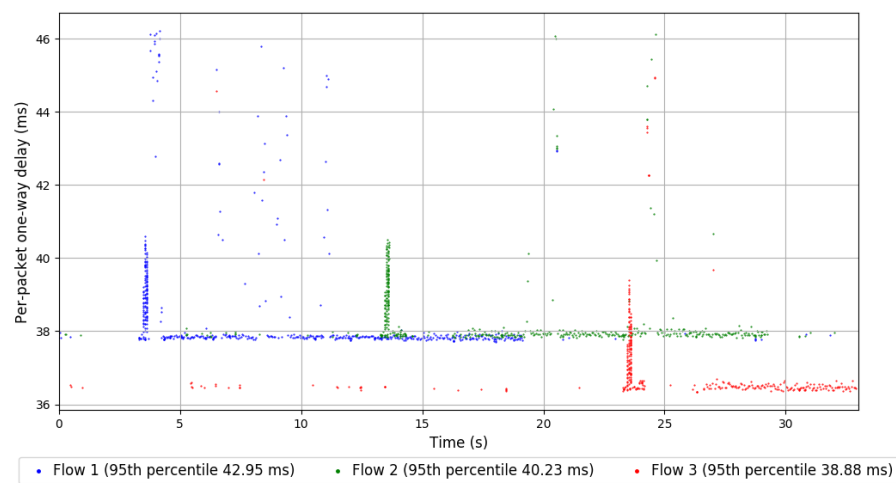
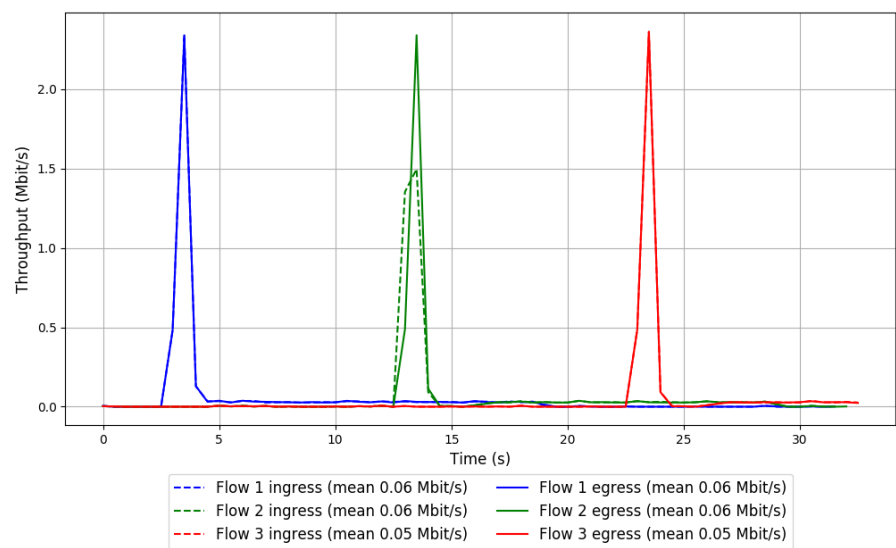


Run 7: Statistics of WebRTC media

Start at: 2018-04-24 19:33:19
End at: 2018-04-24 19:33:49
Local clock offset: 1.141 ms
Remote clock offset: -0.445 ms

Below is generated by plot.py at 2018-04-25 01:24:32
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 40.512 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 42.948 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 40.235 ms
Loss rate: 0.18%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 38.879 ms
Loss rate: 0.21%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-04-24 19:56:57

End at: 2018-04-24 19:57:27

Local clock offset: 1.312 ms

Remote clock offset: 0.83 ms

Below is generated by plot.py at 2018-04-25 01:24:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.16 Mbit/s

95th percentile per-packet one-way delay: 39.094 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 38.572 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 38.636 ms

Loss rate: 0.07%

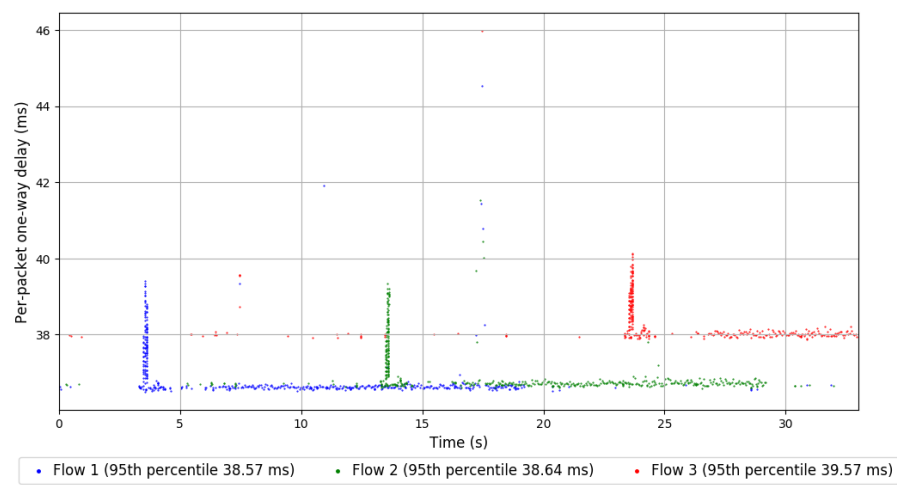
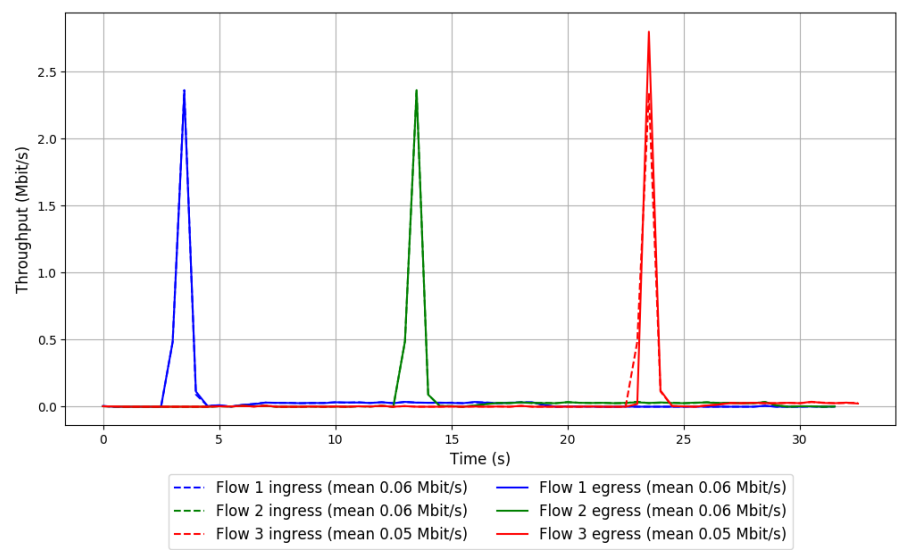
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 39.571 ms

Loss rate: 0.16%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-04-24 20:20:49

End at: 2018-04-24 20:21:19

Local clock offset: 1.267 ms

Remote clock offset: 0.922 ms

Below is generated by plot.py at 2018-04-25 01:24:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 43.457 ms

Loss rate: 0.18%

-- Flow 1:

Average throughput: 0.07 Mbit/s

95th percentile per-packet one-way delay: 43.687 ms

Loss rate: 0.21%

-- Flow 2:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 43.833 ms

Loss rate: 0.10%

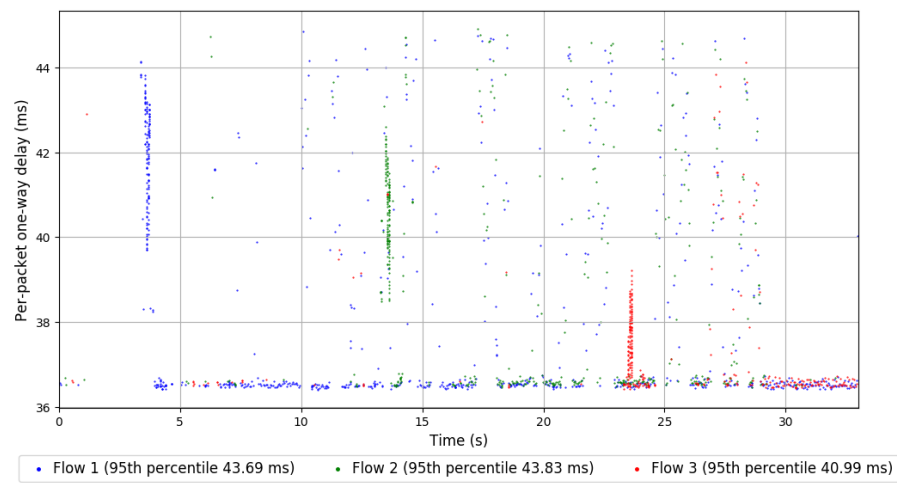
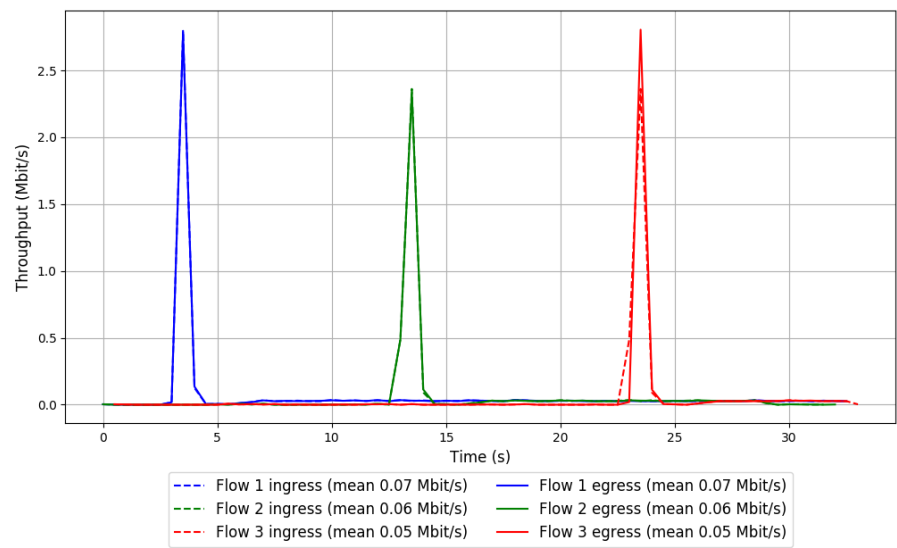
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 40.990 ms

Loss rate: 0.23%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-04-24 20:45:23

End at: 2018-04-24 20:45:53

Local clock offset: 1.13 ms

Remote clock offset: 0.398 ms

Below is generated by plot.py at 2018-04-25 01:24:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.16 Mbit/s

95th percentile per-packet one-way delay: 44.865 ms

Loss rate: 0.34%

-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 45.326 ms

Loss rate: 0.44%

-- Flow 2:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 45.575 ms

Loss rate: 0.18%

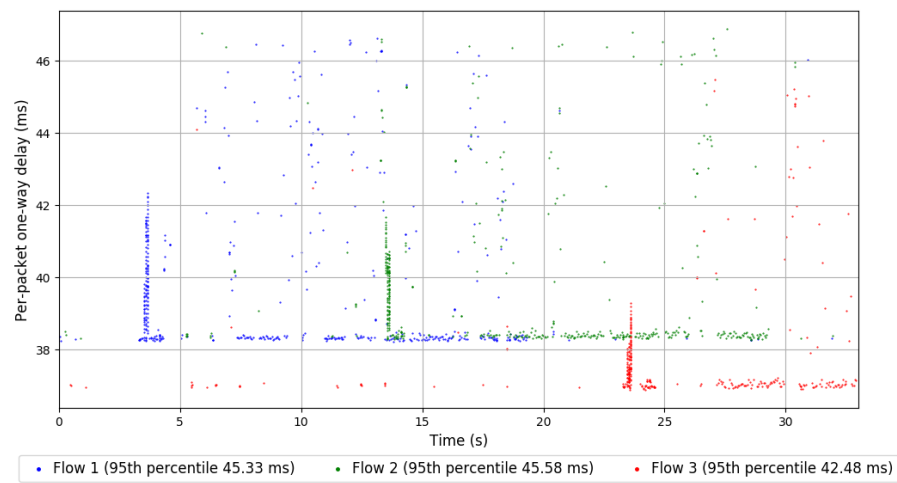
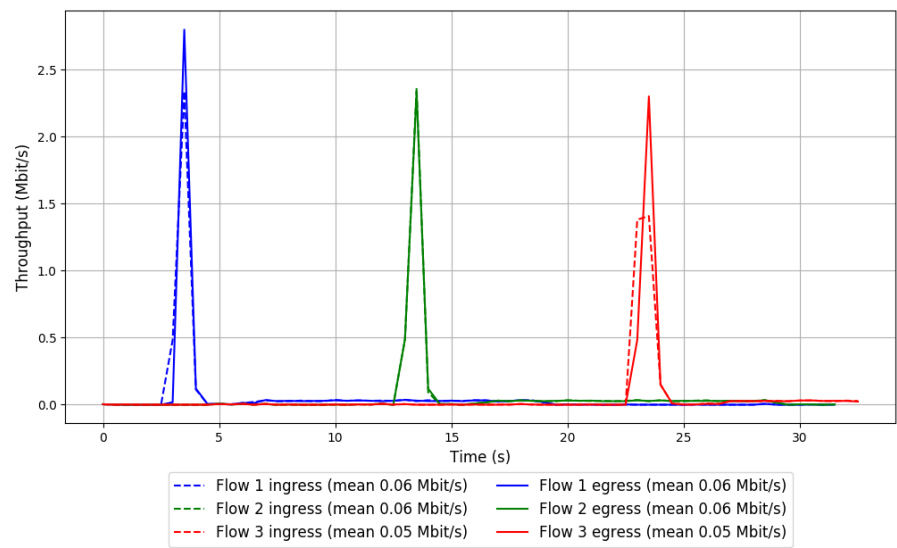
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 42.476 ms

Loss rate: 0.41%

Run 10: Report of WebRTC media — Data Link

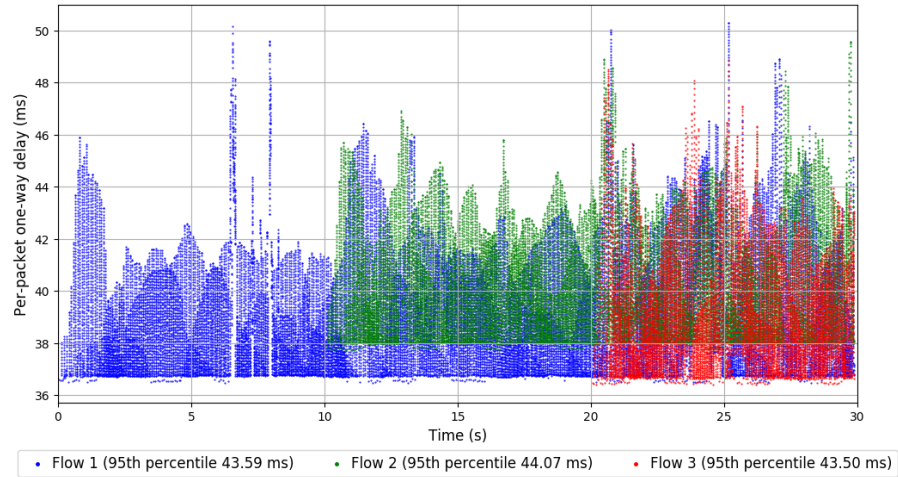
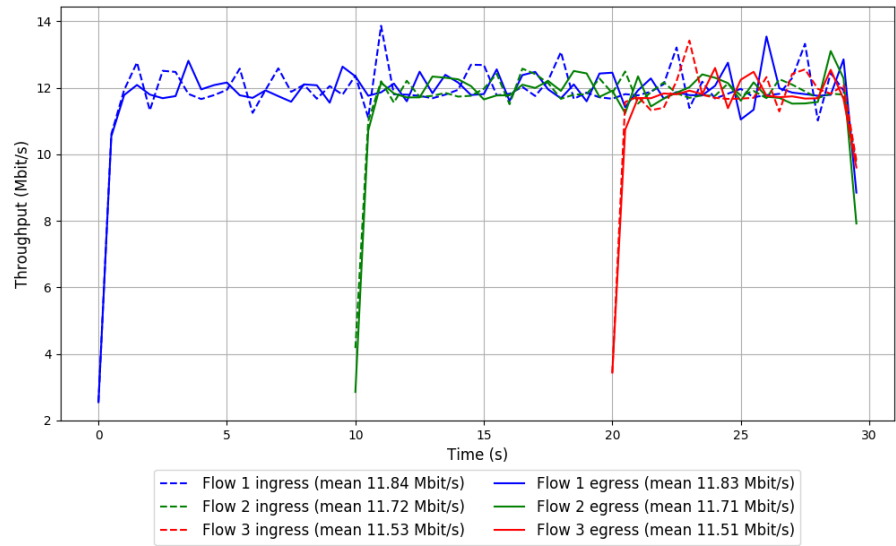


Run 1: Statistics of Sprout

Start at: 2018-04-24 17:04:18
End at: 2018-04-24 17:04:48
Local clock offset: 0.933 ms
Remote clock offset: -0.033 ms

Below is generated by plot.py at 2018-04-25 01:24:32
Datalink statistics
-- Total of 3 flows:
Average throughput: 23.40 Mbit/s
95th percentile per-packet one-way delay: 43.792 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 11.83 Mbit/s
95th percentile per-packet one-way delay: 43.585 ms
Loss rate: 0.29%
-- Flow 2:
Average throughput: 11.71 Mbit/s
95th percentile per-packet one-way delay: 44.073 ms
Loss rate: 0.39%
-- Flow 3:
Average throughput: 11.51 Mbit/s
95th percentile per-packet one-way delay: 43.503 ms
Loss rate: 0.82%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-04-24 17:27:51

End at: 2018-04-24 17:28:21

Local clock offset: 1.195 ms

Remote clock offset: 0.016 ms

Below is generated by plot.py at 2018-04-25 01:24:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 23.27 Mbit/s

95th percentile per-packet one-way delay: 44.702 ms

Loss rate: 0.50%

-- Flow 1:

Average throughput: 11.78 Mbit/s

95th percentile per-packet one-way delay: 43.983 ms

Loss rate: 0.35%

-- Flow 2:

Average throughput: 11.64 Mbit/s

95th percentile per-packet one-way delay: 45.027 ms

Loss rate: 0.41%

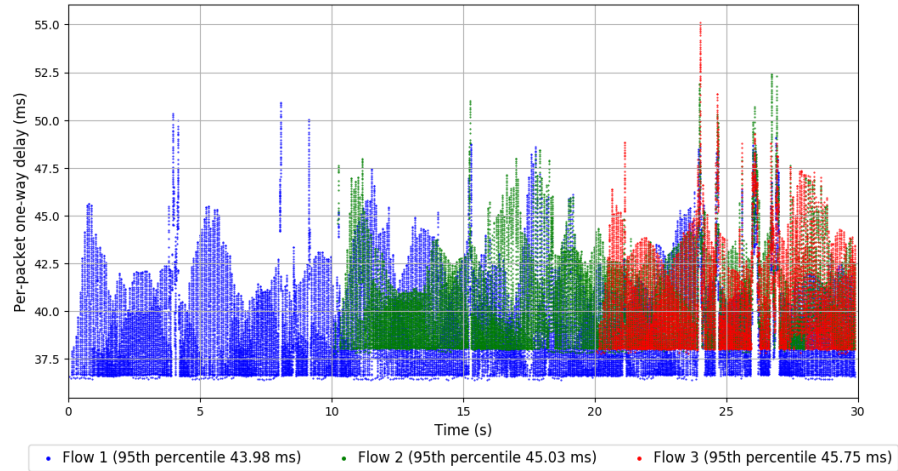
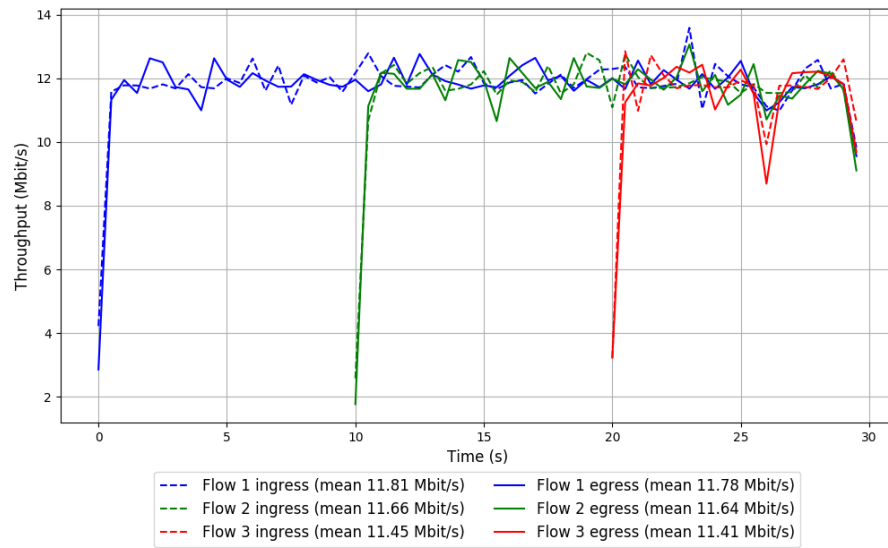
-- Flow 3:

Average throughput: 11.41 Mbit/s

95th percentile per-packet one-way delay: 45.752 ms

Loss rate: 1.14%

Run 2: Report of Sprout — Data Link

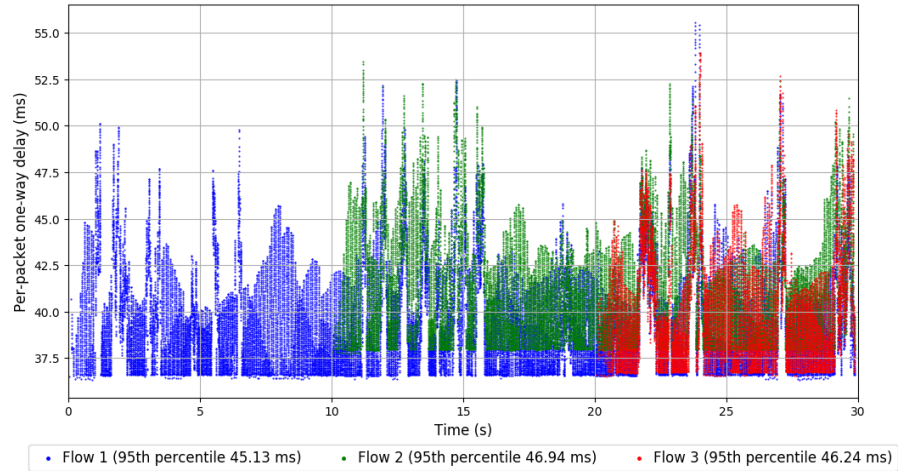
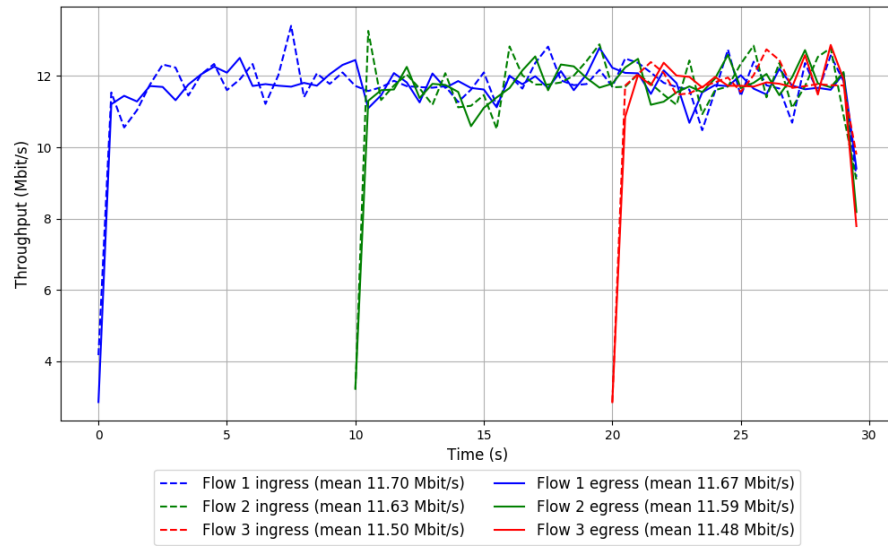


Run 3: Statistics of Sprout

Start at: 2018-04-24 17:51:44
End at: 2018-04-24 17:52:14
Local clock offset: 1.235 ms
Remote clock offset: -0.051 ms

```
# Below is generated by plot.py at 2018-04-25 01:24:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 23.13 Mbit/s
95th percentile per-packet one-way delay: 46.090 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 11.67 Mbit/s
95th percentile per-packet one-way delay: 45.134 ms
Loss rate: 0.48%
-- Flow 2:
Average throughput: 11.59 Mbit/s
95th percentile per-packet one-way delay: 46.938 ms
Loss rate: 0.53%
-- Flow 3:
Average throughput: 11.48 Mbit/s
95th percentile per-packet one-way delay: 46.240 ms
Loss rate: 0.98%
```

Run 3: Report of Sprout — Data Link

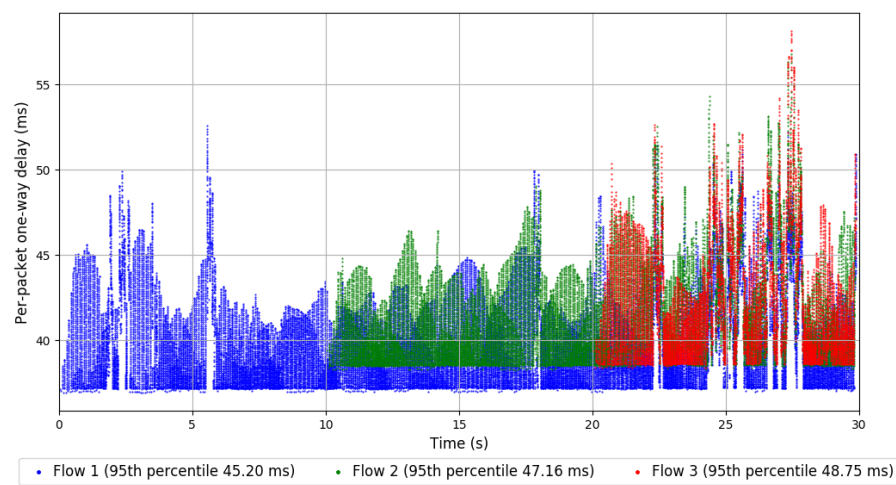
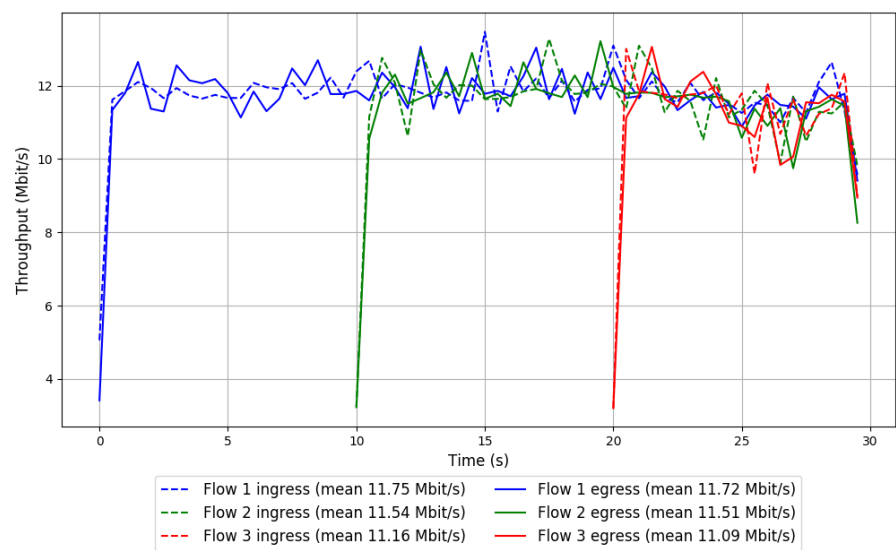


Run 4: Statistics of Sprout

Start at: 2018-04-24 18:15:31
End at: 2018-04-24 18:16:01
Local clock offset: 1.265 ms
Remote clock offset: -0.186 ms

```
# Below is generated by plot.py at 2018-04-25 01:24:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 23.01 Mbit/s
95th percentile per-packet one-way delay: 46.794 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 11.72 Mbit/s
95th percentile per-packet one-way delay: 45.204 ms
Loss rate: 0.46%
-- Flow 2:
Average throughput: 11.51 Mbit/s
95th percentile per-packet one-way delay: 47.165 ms
Loss rate: 0.66%
-- Flow 3:
Average throughput: 11.09 Mbit/s
95th percentile per-packet one-way delay: 48.747 ms
Loss rate: 1.15%
```

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-04-24 18:40:08

End at: 2018-04-24 18:40:38

Local clock offset: 0.528 ms

Remote clock offset: 0.785 ms

Below is generated by plot.py at 2018-04-25 01:24:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 22.83 Mbit/s

95th percentile per-packet one-way delay: 46.608 ms

Loss rate: 0.79%

-- Flow 1:

Average throughput: 11.54 Mbit/s

95th percentile per-packet one-way delay: 46.865 ms

Loss rate: 0.62%

-- Flow 2:

Average throughput: 11.42 Mbit/s

95th percentile per-packet one-way delay: 46.645 ms

Loss rate: 0.76%

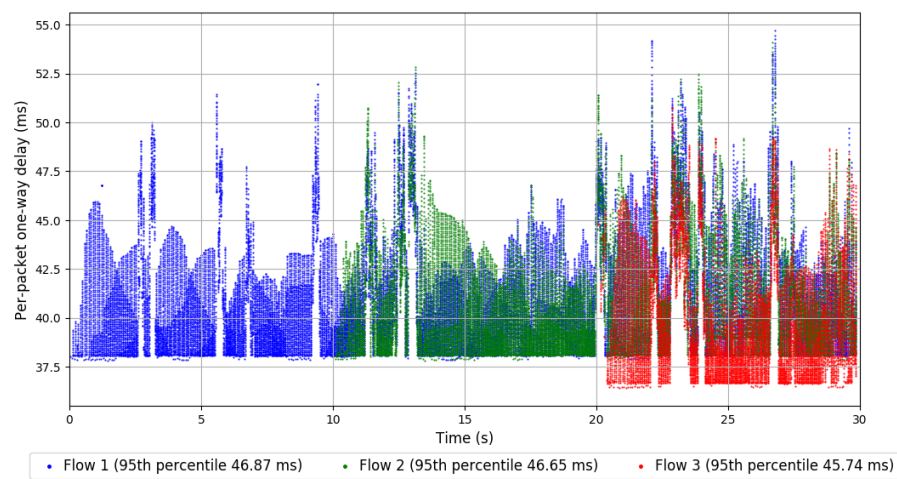
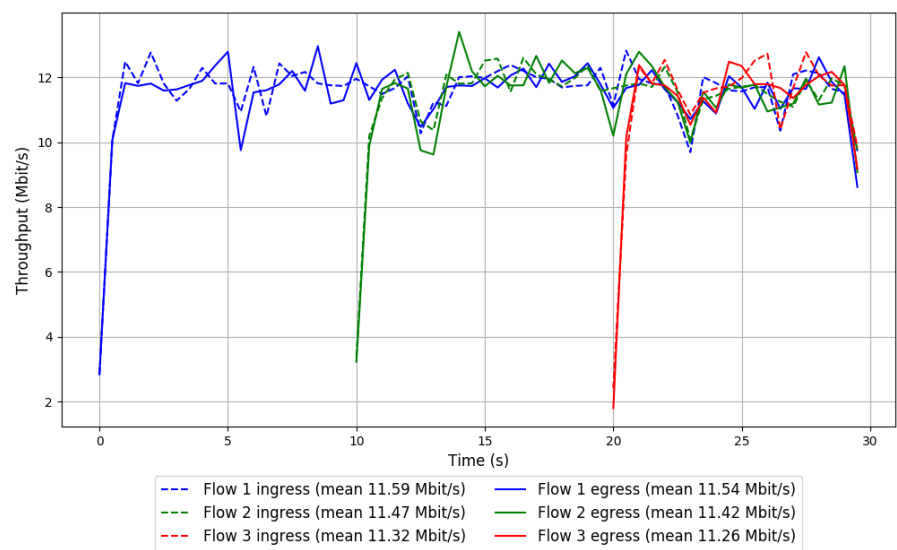
-- Flow 3:

Average throughput: 11.26 Mbit/s

95th percentile per-packet one-way delay: 45.739 ms

Loss rate: 1.35%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-04-24 19:05:12

End at: 2018-04-24 19:05:42

Local clock offset: 0.063 ms

Remote clock offset: 0.798 ms

Below is generated by plot.py at 2018-04-25 01:24:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 22.90 Mbit/s

95th percentile per-packet one-way delay: 46.643 ms

Loss rate: 0.76%

-- Flow 1:

Average throughput: 11.59 Mbit/s

95th percentile per-packet one-way delay: 45.695 ms

Loss rate: 0.81%

-- Flow 2:

Average throughput: 11.47 Mbit/s

95th percentile per-packet one-way delay: 47.505 ms

Loss rate: 0.59%

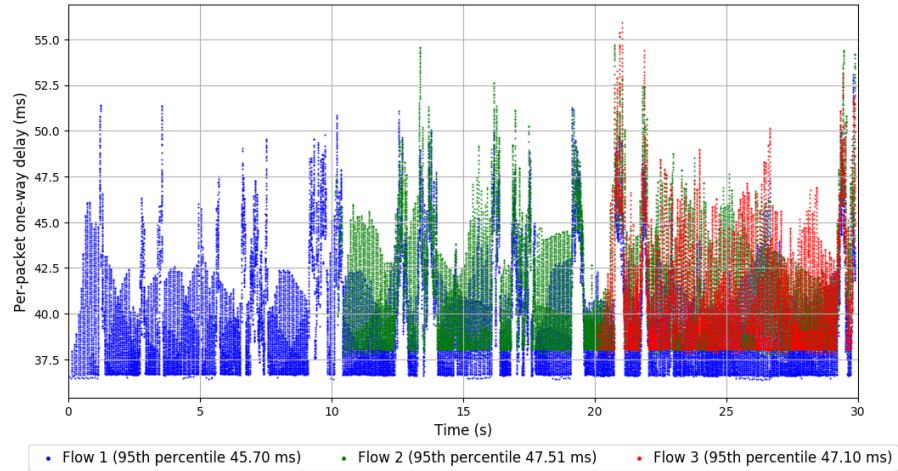
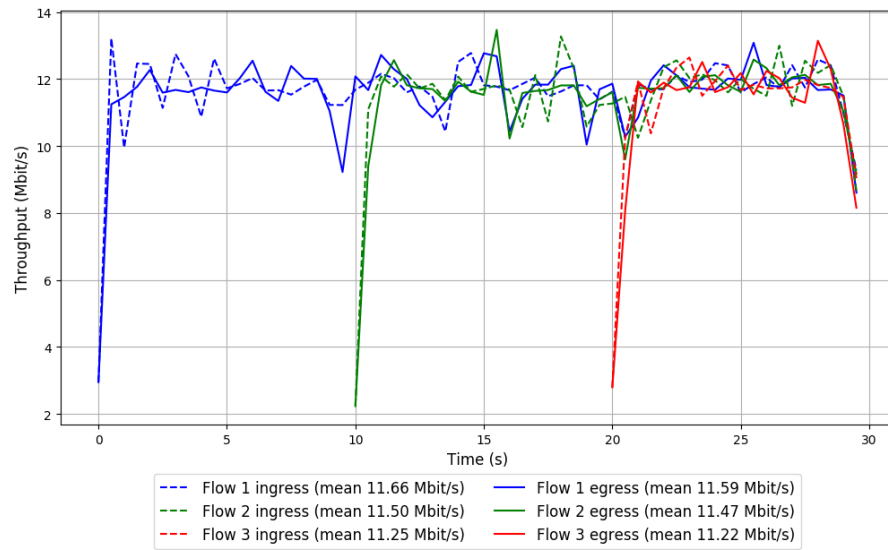
-- Flow 3:

Average throughput: 11.22 Mbit/s

95th percentile per-packet one-way delay: 47.097 ms

Loss rate: 0.94%

Run 6: Report of Sprout — Data Link

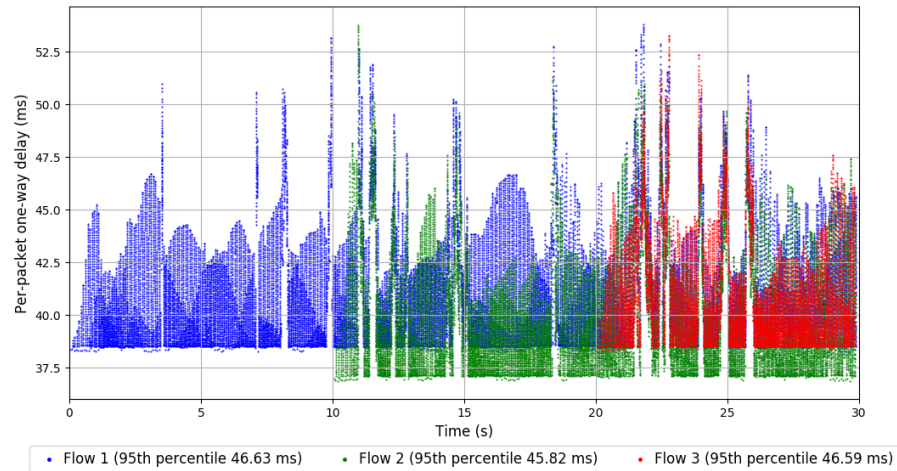
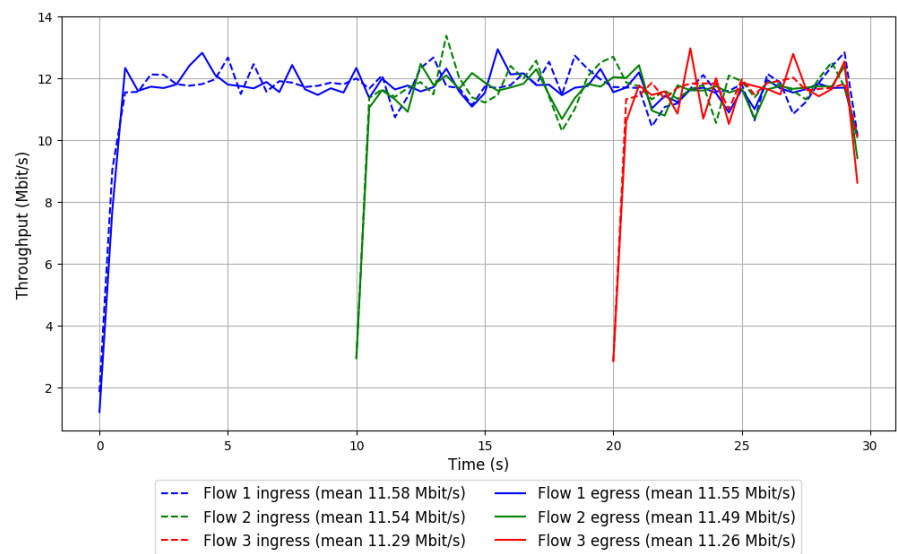


Run 7: Statistics of Sprout

Start at: 2018-04-24 19:29:09
End at: 2018-04-24 19:29:39
Local clock offset: 0.994 ms
Remote clock offset: -0.838 ms

Below is generated by plot.py at 2018-04-25 01:24:32
Datalink statistics
-- Total of 3 flows:
Average throughput: 22.88 Mbit/s
95th percentile per-packet one-way delay: 46.384 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 11.55 Mbit/s
95th percentile per-packet one-way delay: 46.628 ms
Loss rate: 0.50%
-- Flow 2:
Average throughput: 11.49 Mbit/s
95th percentile per-packet one-way delay: 45.821 ms
Loss rate: 0.80%
-- Flow 3:
Average throughput: 11.26 Mbit/s
95th percentile per-packet one-way delay: 46.593 ms
Loss rate: 1.06%

Run 7: Report of Sprout — Data Link

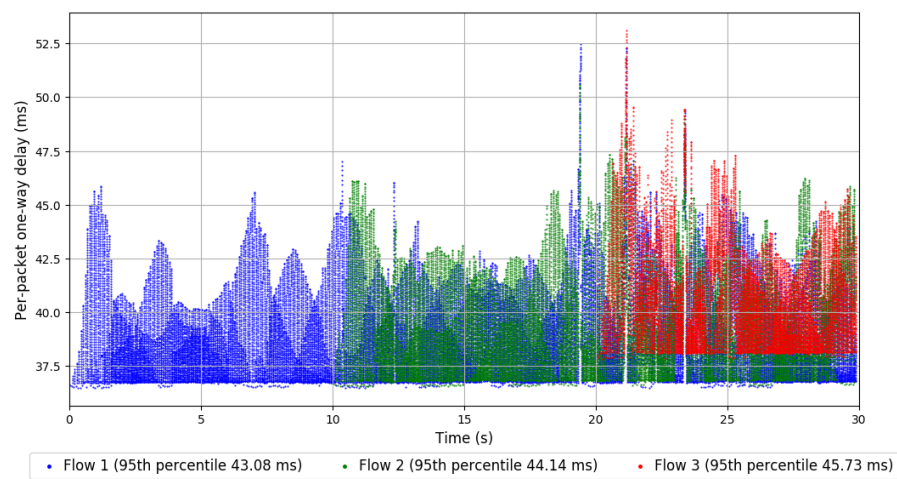
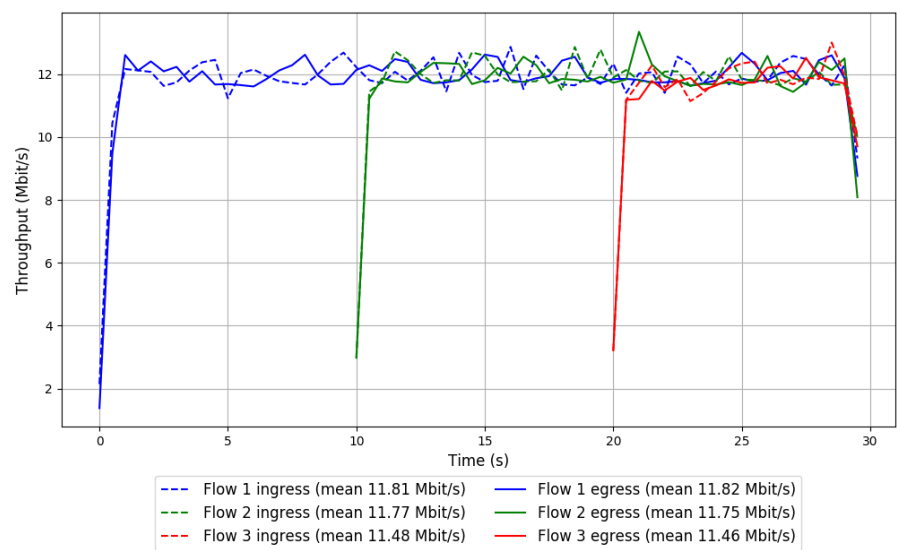


Run 8: Statistics of Sprout

Start at: 2018-04-24 19:52:52
End at: 2018-04-24 19:53:22
Local clock offset: 1.362 ms
Remote clock offset: 0.757 ms

```
# Below is generated by plot.py at 2018-04-25 01:24:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 23.39 Mbit/s
95th percentile per-packet one-way delay: 43.999 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 11.82 Mbit/s
95th percentile per-packet one-way delay: 43.081 ms
Loss rate: 0.17%
-- Flow 2:
Average throughput: 11.75 Mbit/s
95th percentile per-packet one-way delay: 44.137 ms
Loss rate: 0.49%
-- Flow 3:
Average throughput: 11.46 Mbit/s
95th percentile per-packet one-way delay: 45.729 ms
Loss rate: 0.92%
```

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-04-24 20:16:40

End at: 2018-04-24 20:17:10

Local clock offset: 1.25 ms

Remote clock offset: 0.585 ms

Below is generated by plot.py at 2018-04-25 01:24:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 23.05 Mbit/s

95th percentile per-packet one-way delay: 47.325 ms

Loss rate: 0.71%

-- Flow 1:

Average throughput: 11.72 Mbit/s

95th percentile per-packet one-way delay: 46.881 ms

Loss rate: 0.51%

-- Flow 2:

Average throughput: 11.51 Mbit/s

95th percentile per-packet one-way delay: 47.751 ms

Loss rate: 0.81%

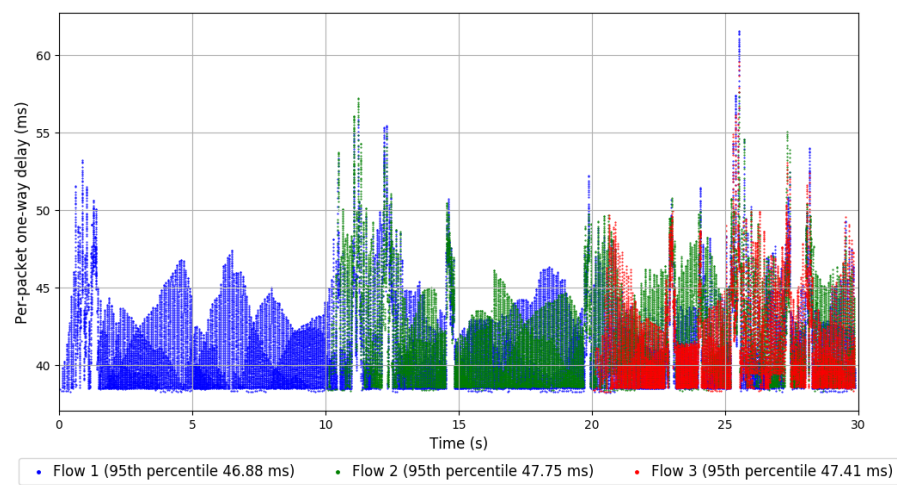
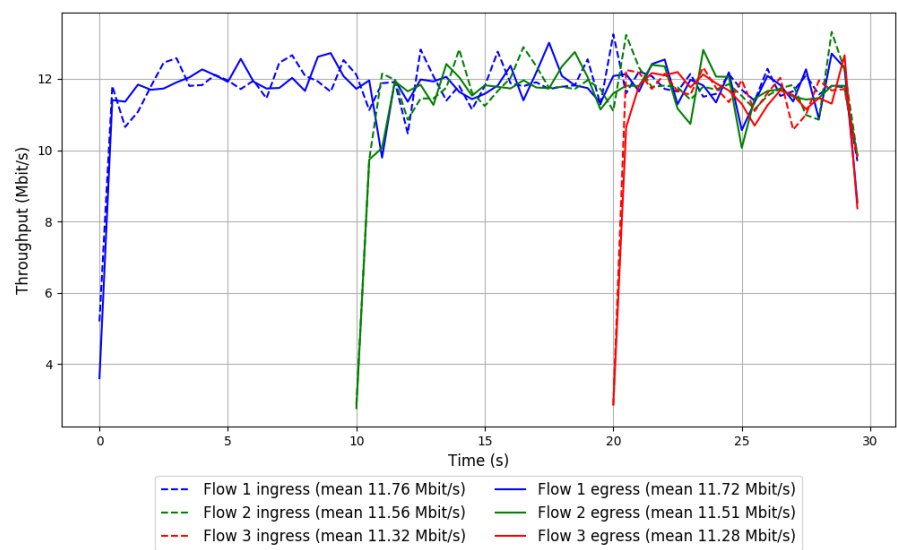
-- Flow 3:

Average throughput: 11.28 Mbit/s

95th percentile per-packet one-way delay: 47.406 ms

Loss rate: 1.15%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-04-24 20:40:52

End at: 2018-04-24 20:41:22

Local clock offset: 1.178 ms

Remote clock offset: 0.418 ms

Below is generated by plot.py at 2018-04-25 01:24:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 22.23 Mbit/s

95th percentile per-packet one-way delay: 47.854 ms

Loss rate: 1.23%

-- Flow 1:

Average throughput: 11.21 Mbit/s

95th percentile per-packet one-way delay: 47.919 ms

Loss rate: 1.09%

-- Flow 2:

Average throughput: 11.11 Mbit/s

95th percentile per-packet one-way delay: 47.862 ms

Loss rate: 1.42%

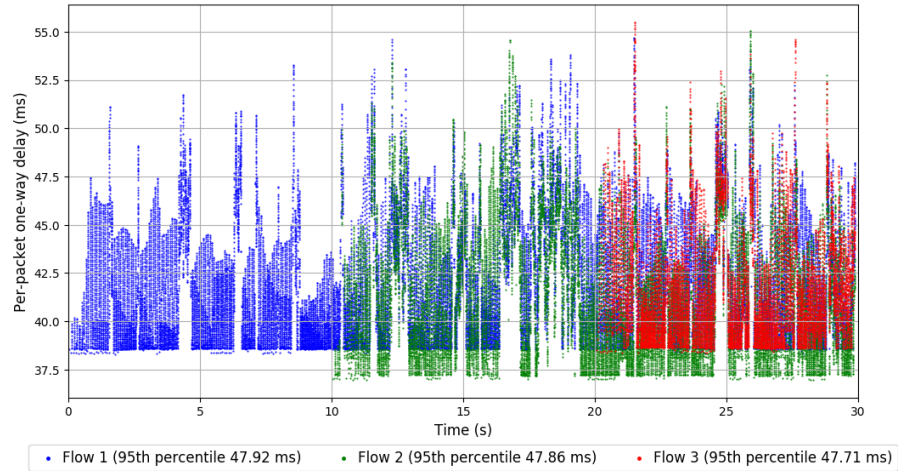
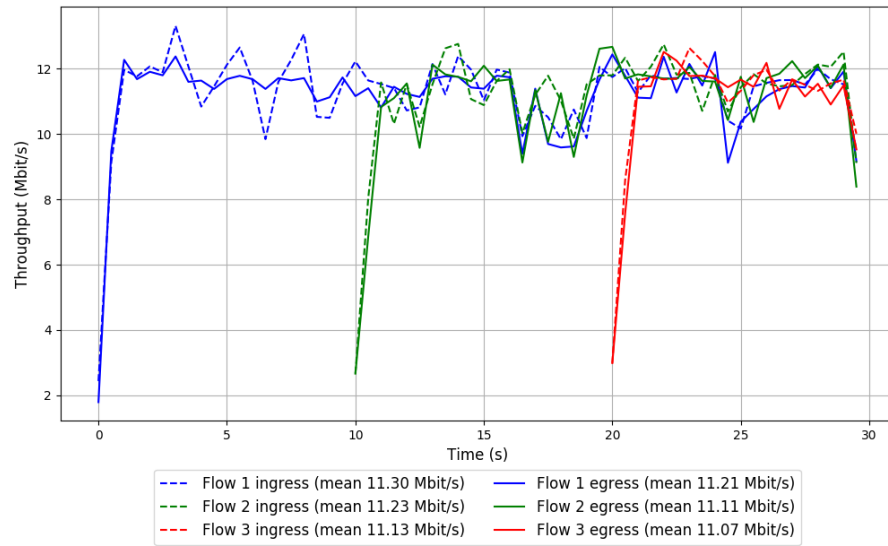
-- Flow 3:

Average throughput: 11.07 Mbit/s

95th percentile per-packet one-way delay: 47.707 ms

Loss rate: 1.28%

Run 10: Report of Sprout — Data Link

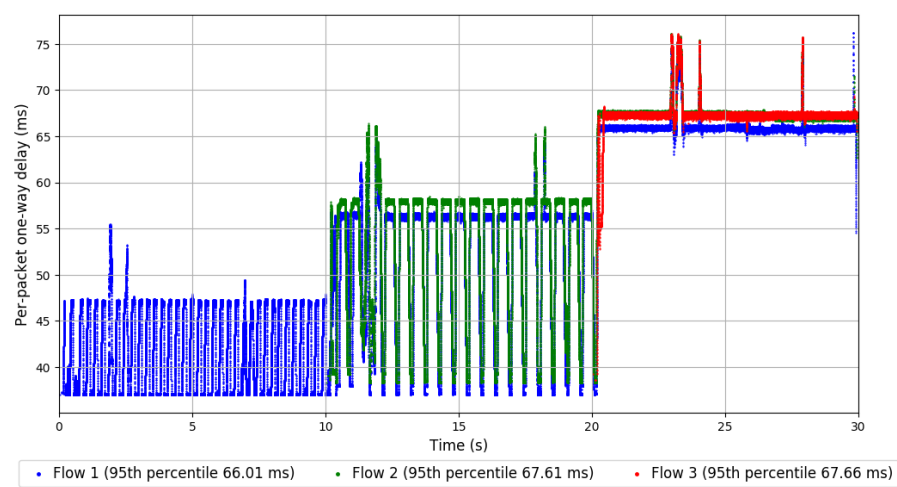
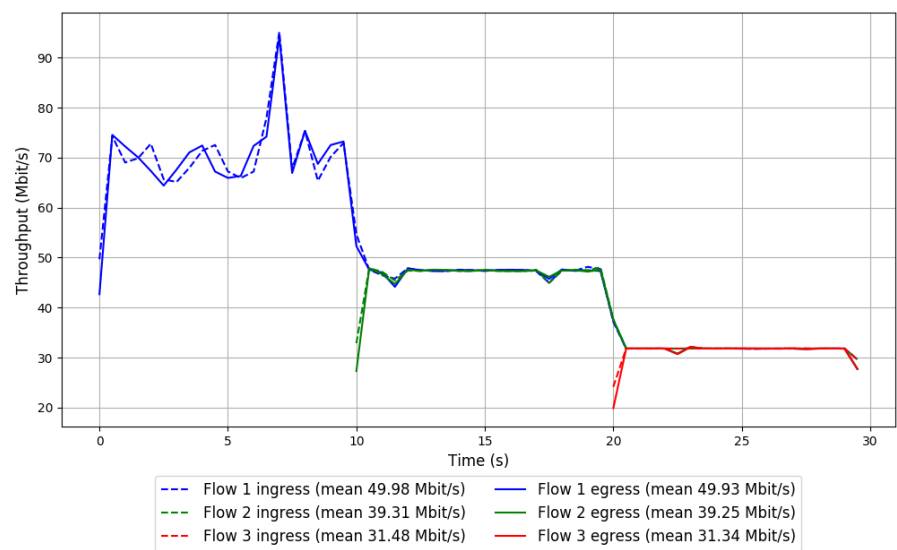



```
Run 1: Statistics of TaoVA-100x

Start at: 2018-04-24 17:16:35
End at: 2018-04-24 17:17:05
Local clock offset: 0.935 ms
Remote clock offset: -0.876 ms

# Below is generated by plot.py at 2018-04-25 01:26:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 86.41 Mbit/s
95th percentile per-packet one-way delay: 67.548 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 49.93 Mbit/s
95th percentile per-packet one-way delay: 66.006 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 39.25 Mbit/s
95th percentile per-packet one-way delay: 67.611 ms
Loss rate: 0.56%
-- Flow 3:
Average throughput: 31.34 Mbit/s
95th percentile per-packet one-way delay: 67.655 ms
Loss rate: 1.13%
```

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

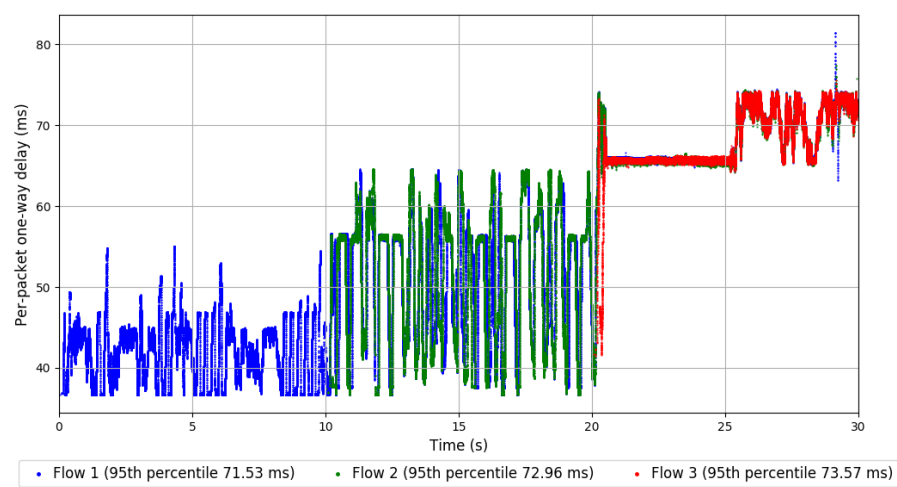
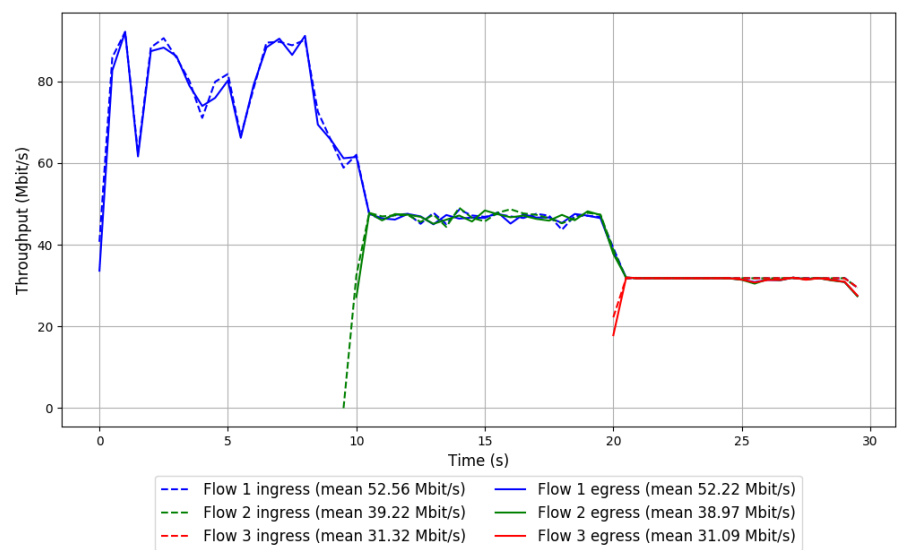


Run 2: Statistics of TaoVA-100x

Start at: 2018-04-24 17:40:09
End at: 2018-04-24 17:40:39
Local clock offset: 1.153 ms
Remote clock offset: -0.001 ms

Below is generated by plot.py at 2018-04-25 01:27:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 88.42 Mbit/s
95th percentile per-packet one-way delay: 72.839 ms
Loss rate: 1.01%
-- Flow 1:
Average throughput: 52.22 Mbit/s
95th percentile per-packet one-way delay: 71.535 ms
Loss rate: 0.93%
-- Flow 2:
Average throughput: 38.97 Mbit/s
95th percentile per-packet one-way delay: 72.961 ms
Loss rate: 0.95%
-- Flow 3:
Average throughput: 31.09 Mbit/s
95th percentile per-packet one-way delay: 73.567 ms
Loss rate: 1.59%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-04-24 18:04:08

End at: 2018-04-24 18:04:38

Local clock offset: 1.532 ms

Remote clock offset: -0.18 ms

Below is generated by plot.py at 2018-04-25 01:27:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.68 Mbit/s

95th percentile per-packet one-way delay: 78.259 ms

Loss rate: 0.85%

-- Flow 1:

Average throughput: 54.32 Mbit/s

95th percentile per-packet one-way delay: 63.155 ms

Loss rate: 0.77%

-- Flow 2:

Average throughput: 35.34 Mbit/s

95th percentile per-packet one-way delay: 81.535 ms

Loss rate: 0.90%

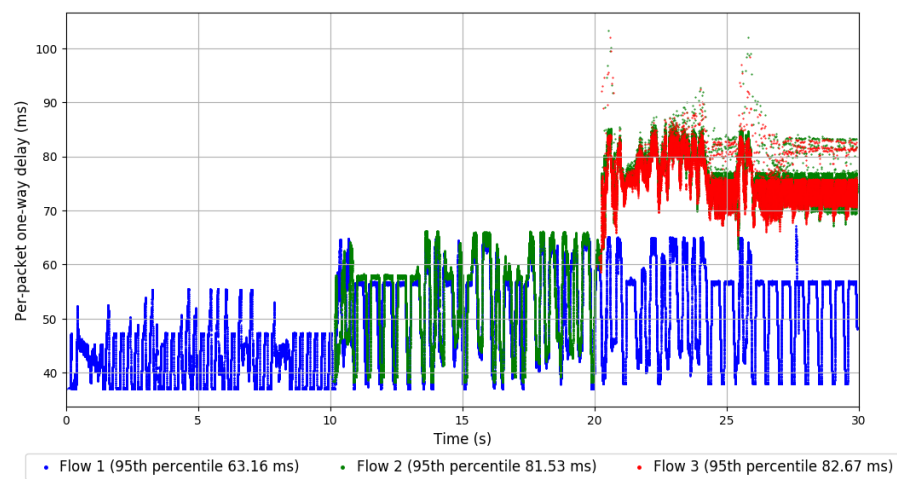
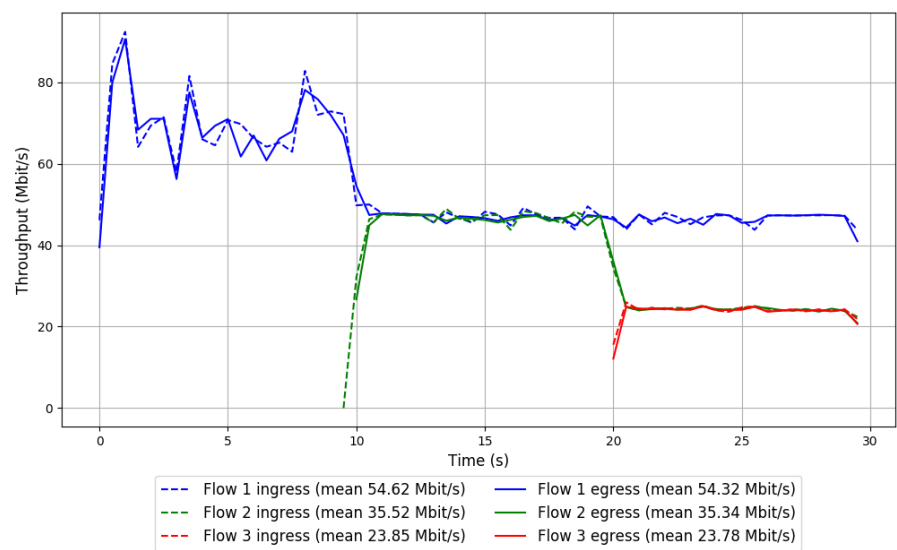
-- Flow 3:

Average throughput: 23.78 Mbit/s

95th percentile per-packet one-way delay: 82.668 ms

Loss rate: 1.28%

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

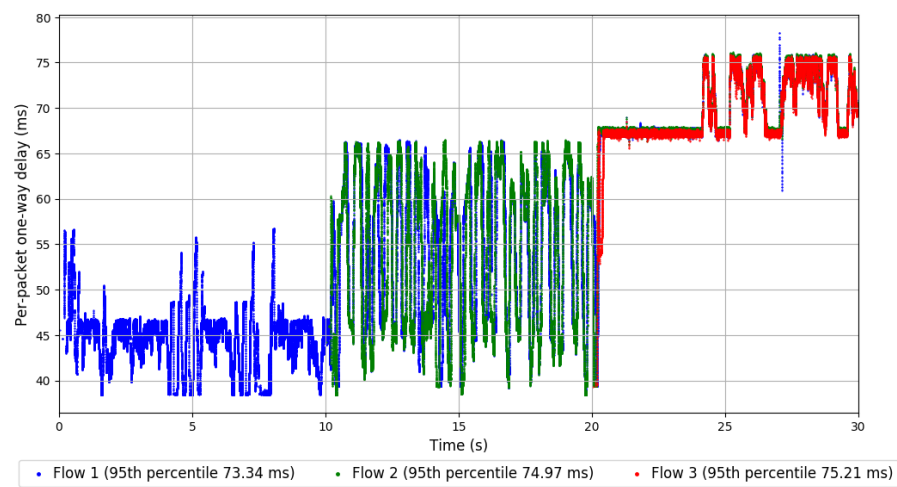
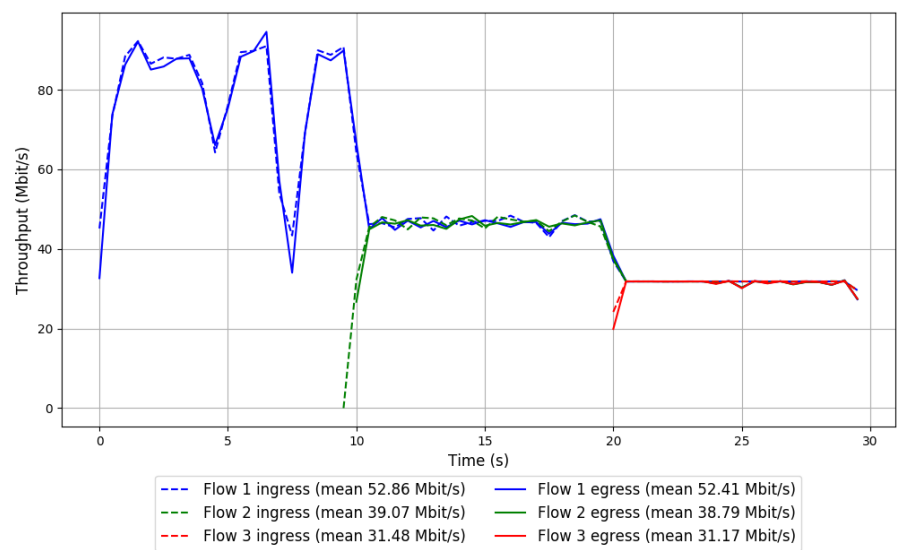


Run 4: Statistics of TaoVA-100x

Start at: 2018-04-24 18:28:17
End at: 2018-04-24 18:28:47
Local clock offset: 0.848 ms
Remote clock offset: -0.244 ms

Below is generated by plot.py at 2018-04-25 01:27:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 88.54 Mbit/s
95th percentile per-packet one-way delay: 74.721 ms
Loss rate: 1.21%
-- Flow 1:
Average throughput: 52.41 Mbit/s
95th percentile per-packet one-way delay: 73.342 ms
Loss rate: 1.15%
-- Flow 2:
Average throughput: 38.79 Mbit/s
95th percentile per-packet one-way delay: 74.975 ms
Loss rate: 1.15%
-- Flow 3:
Average throughput: 31.17 Mbit/s
95th percentile per-packet one-way delay: 75.214 ms
Loss rate: 1.67%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-04-24 18:52:42

End at: 2018-04-24 18:53:12

Local clock offset: 0.316 ms

Remote clock offset: 0.412 ms

Below is generated by plot.py at 2018-04-25 01:27:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.96 Mbit/s

95th percentile per-packet one-way delay: 66.444 ms

Loss rate: 2.10%

-- Flow 1:

Average throughput: 45.27 Mbit/s

95th percentile per-packet one-way delay: 64.707 ms

Loss rate: 1.56%

-- Flow 2:

Average throughput: 45.24 Mbit/s

95th percentile per-packet one-way delay: 66.093 ms

Loss rate: 2.41%

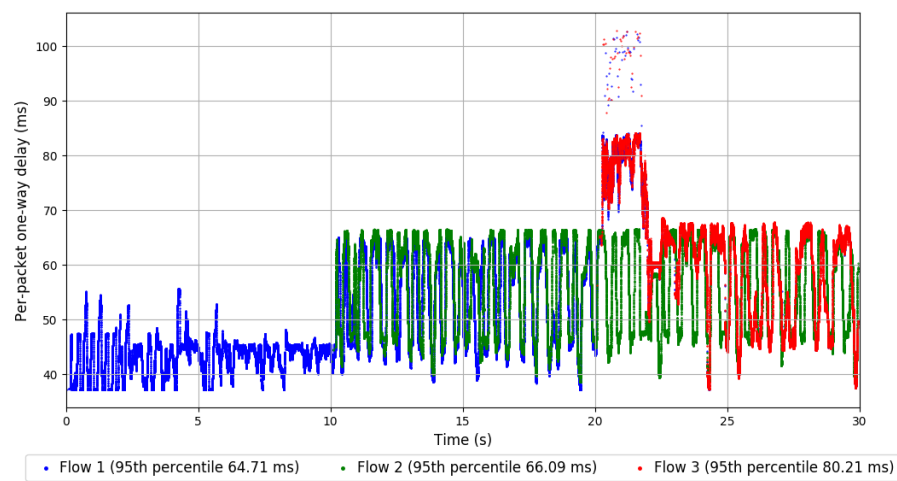
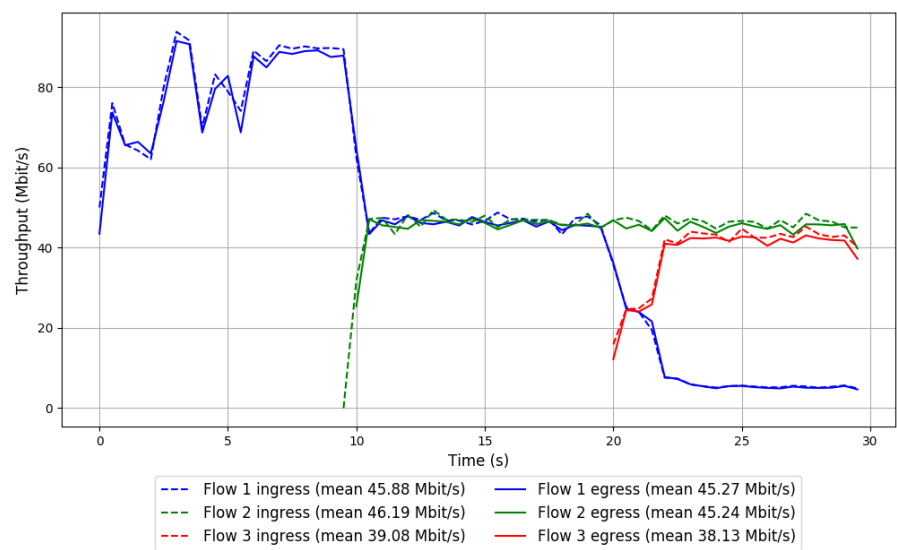
-- Flow 3:

Average throughput: 38.13 Mbit/s

95th percentile per-packet one-way delay: 80.210 ms

Loss rate: 3.29%

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

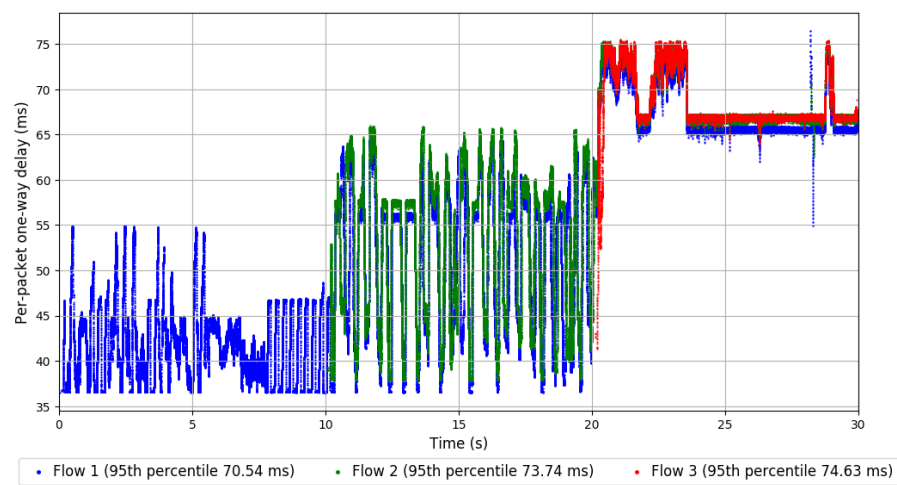
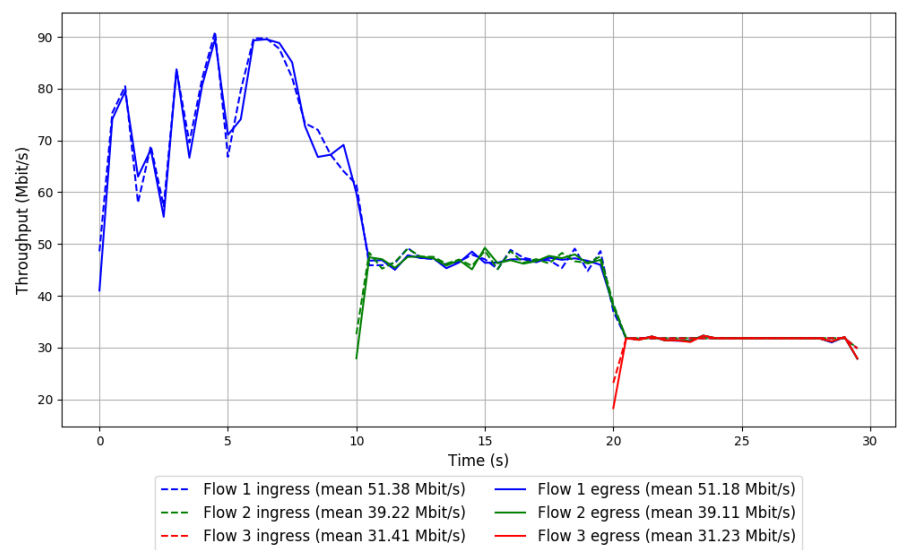


Run 6: Statistics of TaoVA-100x

Start at: 2018-04-24 19:17:30
End at: 2018-04-24 19:18:01
Local clock offset: -0.059 ms
Remote clock offset: -0.116 ms

Below is generated by plot.py at 2018-04-25 01:27:08
Datalink statistics
-- Total of 3 flows:
Average throughput: 87.52 Mbit/s
95th percentile per-packet one-way delay: 73.084 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 51.18 Mbit/s
95th percentile per-packet one-way delay: 70.536 ms
Loss rate: 0.61%
-- Flow 2:
Average throughput: 39.11 Mbit/s
95th percentile per-packet one-way delay: 73.739 ms
Loss rate: 0.71%
-- Flow 3:
Average throughput: 31.23 Mbit/s
95th percentile per-packet one-way delay: 74.634 ms
Loss rate: 1.30%

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

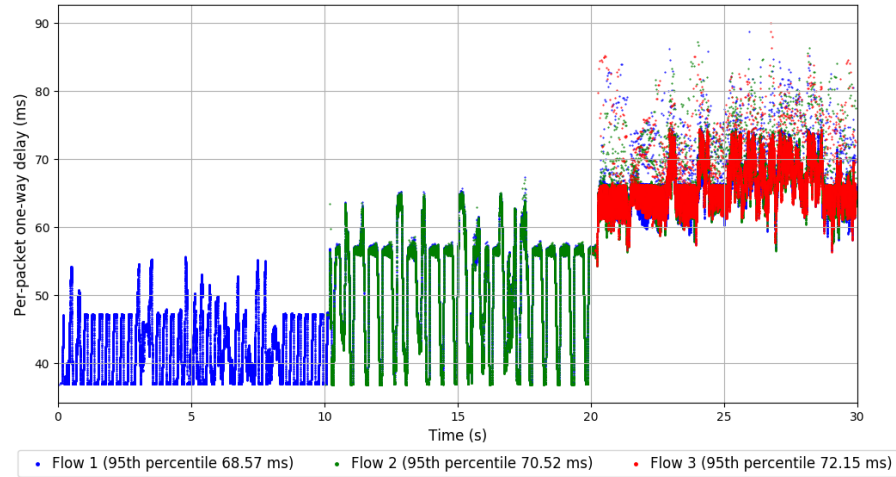
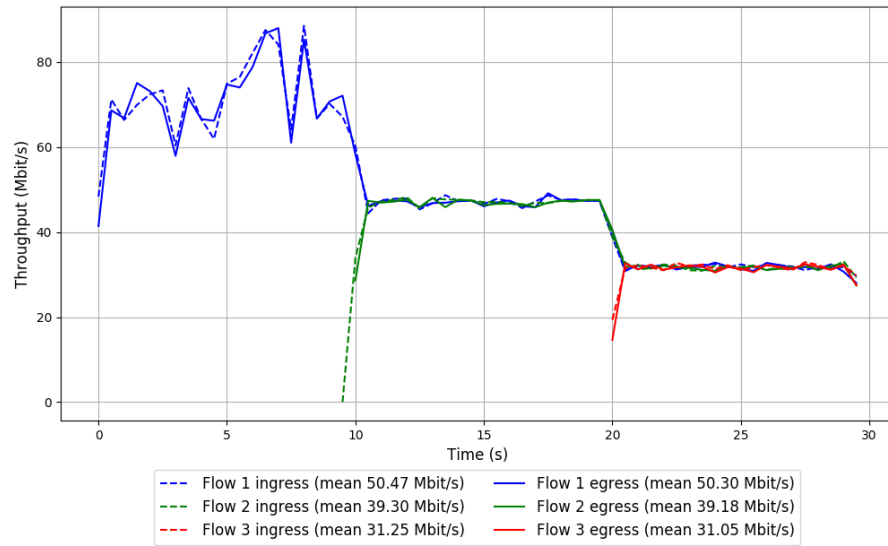


Run 7: Statistics of TaoVA-100x

Start at: 2018-04-24 19:41:39
End at: 2018-04-24 19:42:09
Local clock offset: 1.238 ms
Remote clock offset: -0.381 ms

Below is generated by plot.py at 2018-04-25 01:27:08
Datalink statistics
-- Total of 3 flows:
Average throughput: 86.62 Mbit/s
95th percentile per-packet one-way delay: 70.232 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 50.30 Mbit/s
95th percentile per-packet one-way delay: 68.571 ms
Loss rate: 0.59%
-- Flow 2:
Average throughput: 39.18 Mbit/s
95th percentile per-packet one-way delay: 70.520 ms
Loss rate: 0.71%
-- Flow 3:
Average throughput: 31.05 Mbit/s
95th percentile per-packet one-way delay: 72.150 ms
Loss rate: 1.50%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-04-24 20:05:07

End at: 2018-04-24 20:05:37

Local clock offset: 1.156 ms

Remote clock offset: 0.566 ms

Below is generated by plot.py at 2018-04-25 01:27:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.03 Mbit/s

95th percentile per-packet one-way delay: 77.034 ms

Loss rate: 0.84%

-- Flow 1:

Average throughput: 48.38 Mbit/s

95th percentile per-packet one-way delay: 77.082 ms

Loss rate: 0.79%

-- Flow 2:

Average throughput: 46.28 Mbit/s

95th percentile per-packet one-way delay: 64.284 ms

Loss rate: 0.75%

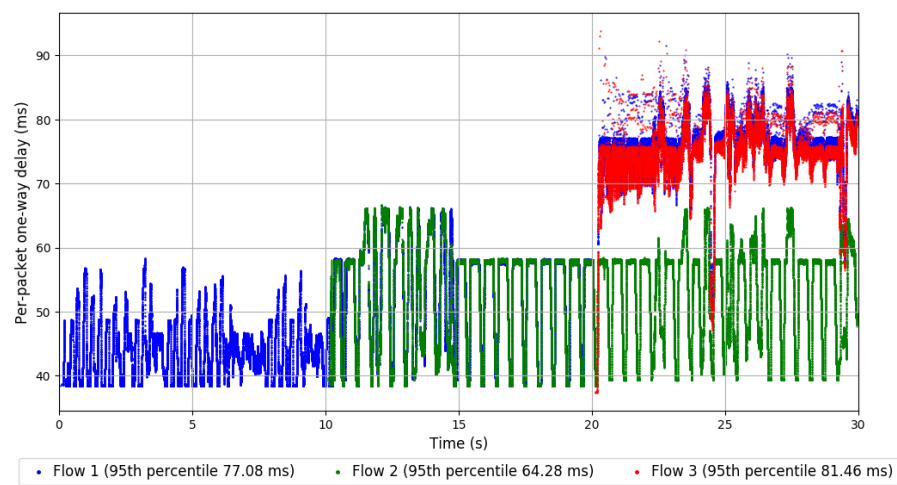
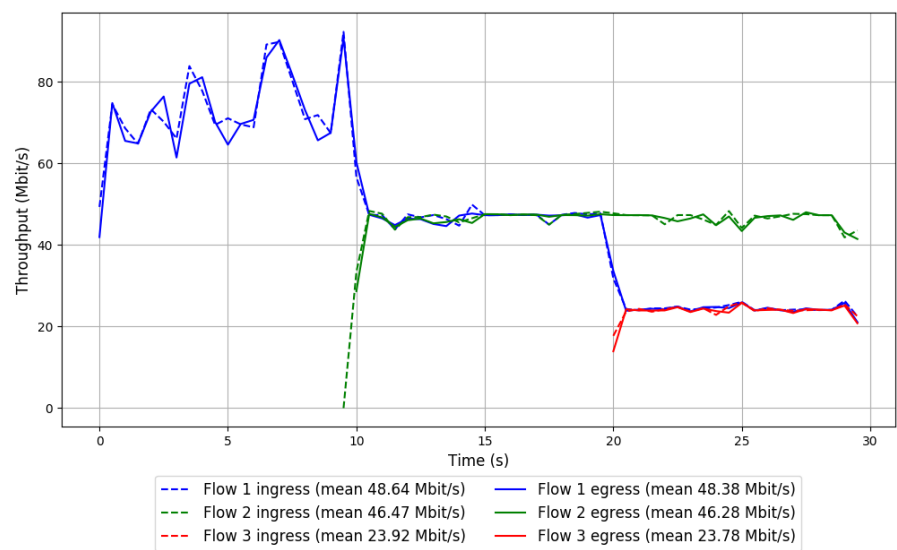
-- Flow 3:

Average throughput: 23.78 Mbit/s

95th percentile per-packet one-way delay: 81.456 ms

Loss rate: 1.49%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-04-24 20:29:15

End at: 2018-04-24 20:29:45

Local clock offset: 1.152 ms

Remote clock offset: 0.888 ms

Below is generated by plot.py at 2018-04-25 01:29:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.49 Mbit/s

95th percentile per-packet one-way delay: 73.360 ms

Loss rate: 1.13%

-- Flow 1:

Average throughput: 50.31 Mbit/s

95th percentile per-packet one-way delay: 72.231 ms

Loss rate: 1.06%

-- Flow 2:

Average throughput: 38.93 Mbit/s

95th percentile per-packet one-way delay: 74.595 ms

Loss rate: 0.99%

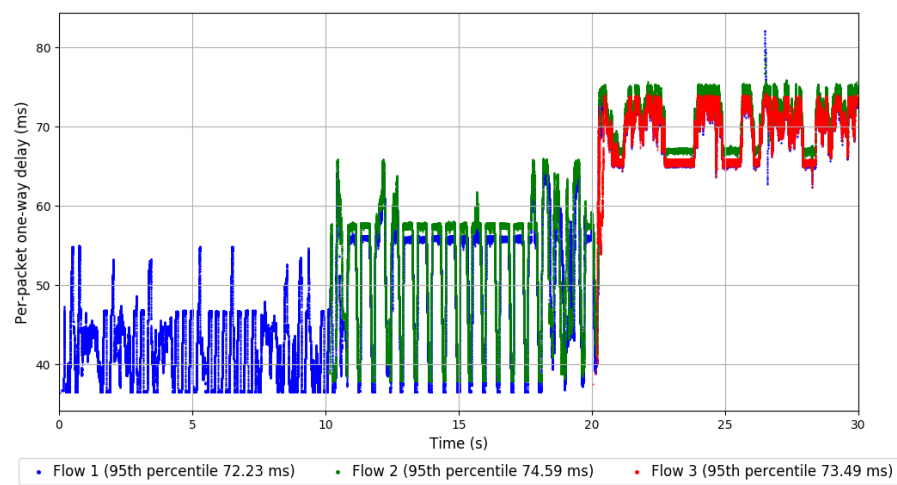
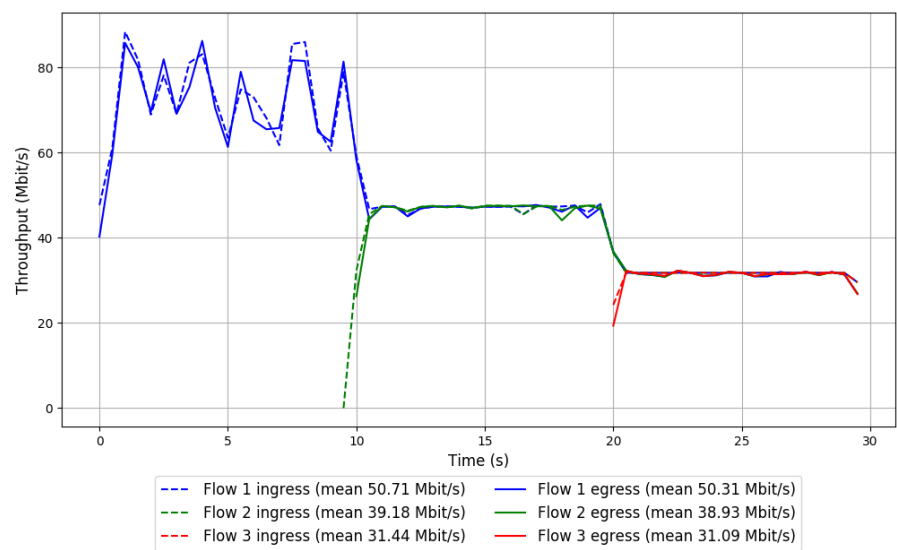
-- Flow 3:

Average throughput: 31.09 Mbit/s

95th percentile per-packet one-way delay: 73.494 ms

Loss rate: 1.78%

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



Run 10: Statistics of TaoVA-100x

Start at: 2018-04-24 20:53:54

End at: 2018-04-24 20:54:24

Local clock offset: 1.182 ms

Remote clock offset: 0.044 ms

Below is generated by plot.py at 2018-04-25 01:29:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.91 Mbit/s

95th percentile per-packet one-way delay: 75.166 ms

Loss rate: 1.42%

-- Flow 1:

Average throughput: 51.87 Mbit/s

95th percentile per-packet one-way delay: 74.970 ms

Loss rate: 1.25%

-- Flow 2:

Average throughput: 38.79 Mbit/s

95th percentile per-packet one-way delay: 75.483 ms

Loss rate: 1.40%

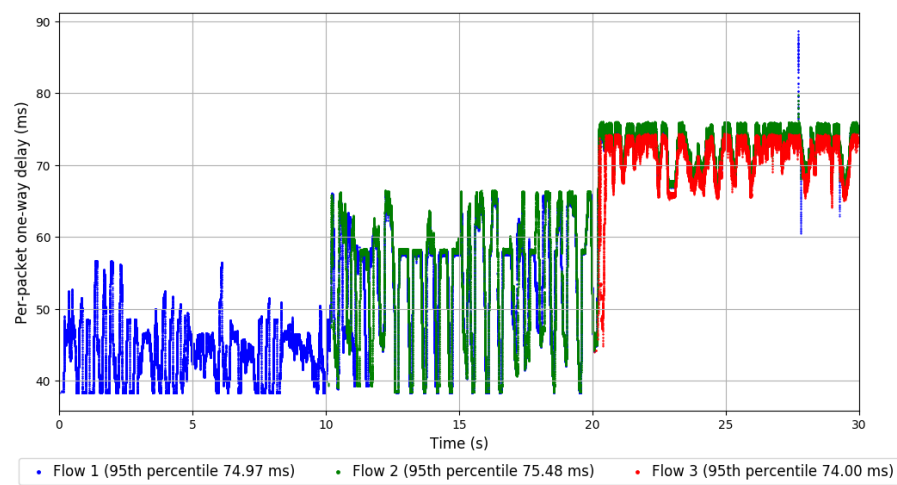
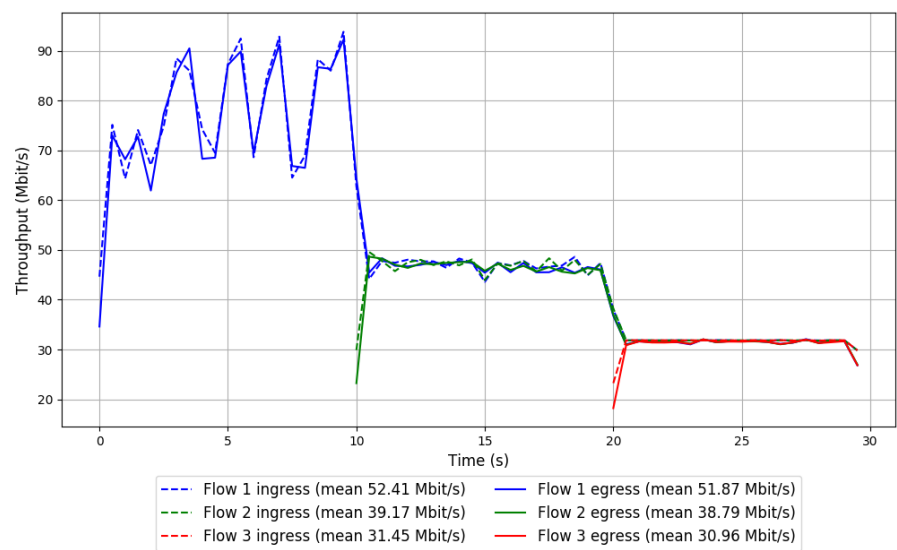
-- Flow 3:

Average throughput: 30.96 Mbit/s

95th percentile per-packet one-way delay: 74.004 ms

Loss rate: 2.28%

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

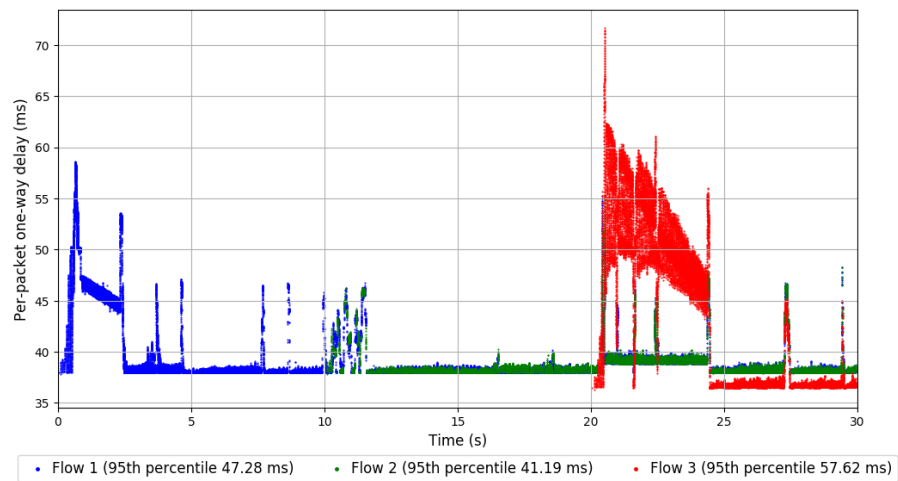
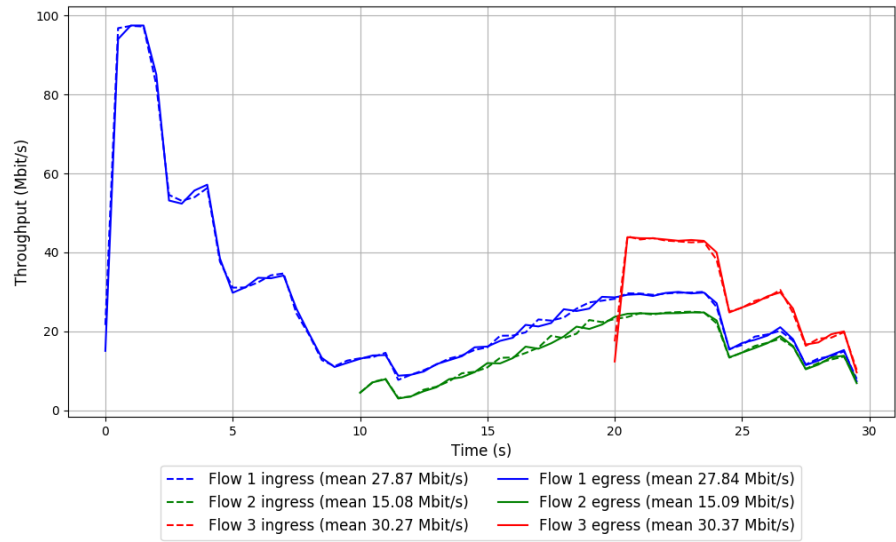


Run 1: Statistics of TCP Vegas

Start at: 2018-04-24 17:13:48
End at: 2018-04-24 17:14:18
Local clock offset: 0.932 ms
Remote clock offset: -0.326 ms

Below is generated by plot.py at 2018-04-25 01:29:37
Datalink statistics
-- Total of 3 flows:
Average throughput: 47.92 Mbit/s
95th percentile per-packet one-way delay: 52.714 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 27.84 Mbit/s
95th percentile per-packet one-way delay: 47.285 ms
Loss rate: 0.33%
-- Flow 2:
Average throughput: 15.09 Mbit/s
95th percentile per-packet one-way delay: 41.189 ms
Loss rate: 0.28%
-- Flow 3:
Average throughput: 30.37 Mbit/s
95th percentile per-packet one-way delay: 57.620 ms
Loss rate: 0.34%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-04-24 17:37:23

End at: 2018-04-24 17:37:53

Local clock offset: 1.279 ms

Remote clock offset: 0.066 ms

Below is generated by plot.py at 2018-04-25 01:29:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 29.37 Mbit/s

95th percentile per-packet one-way delay: 55.475 ms

Loss rate: 0.76%

-- Flow 1:

Average throughput: 9.67 Mbit/s

95th percentile per-packet one-way delay: 48.632 ms

Loss rate: 1.10%

-- Flow 2:

Average throughput: 17.42 Mbit/s

95th percentile per-packet one-way delay: 45.027 ms

Loss rate: 0.64%

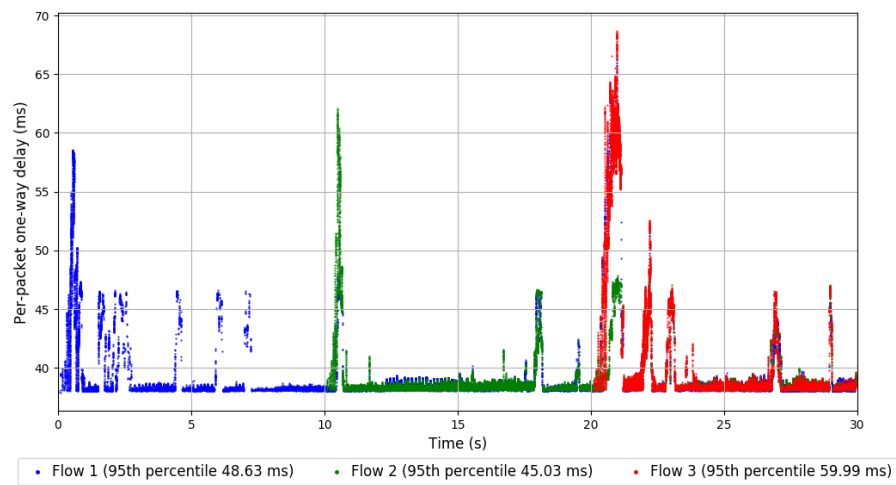
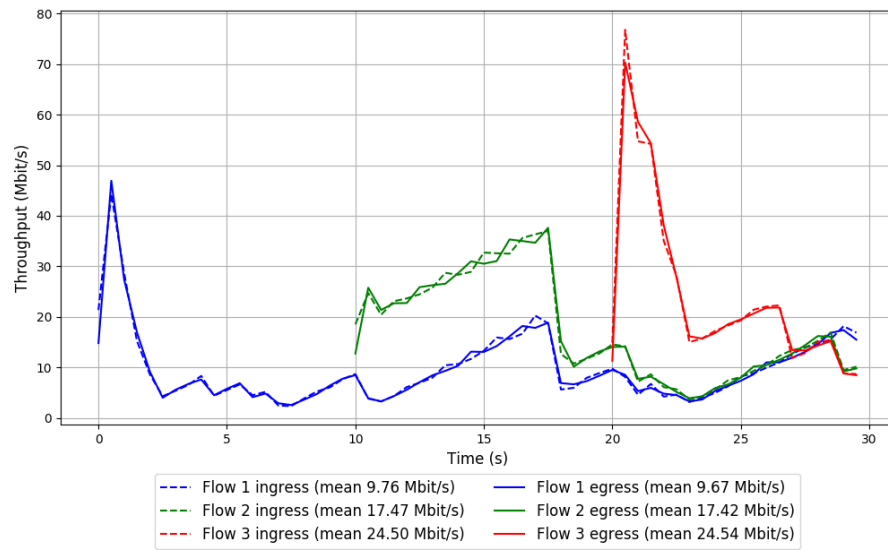
-- Flow 3:

Average throughput: 24.54 Mbit/s

95th percentile per-packet one-way delay: 59.995 ms

Loss rate: 0.54%

Run 2: Report of TCP Vegas — Data Link

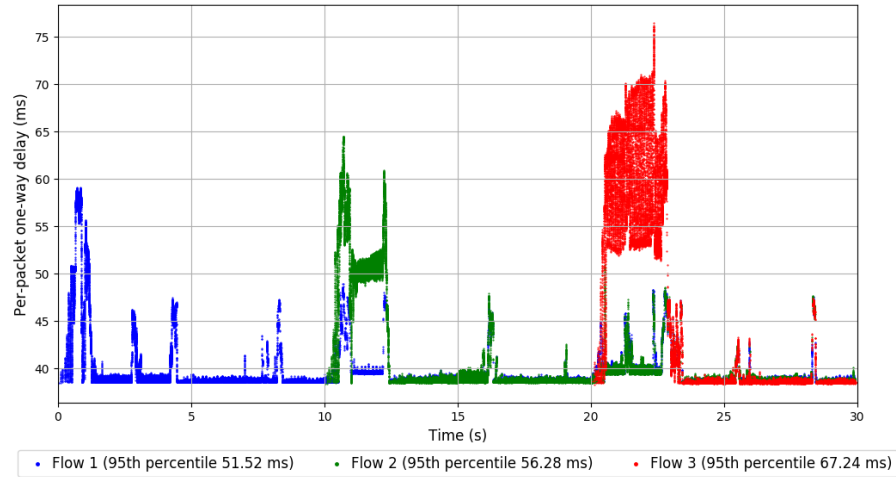
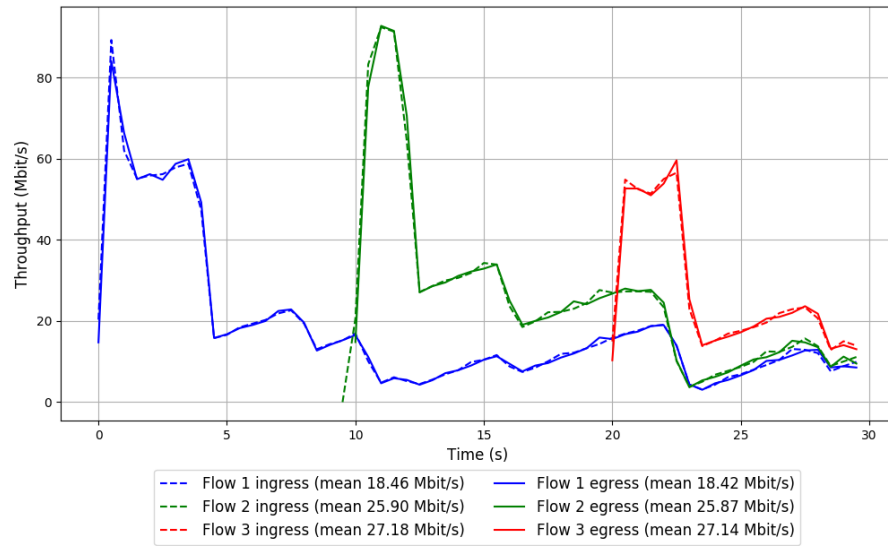


Run 3: Statistics of TCP Vegas

Start at: 2018-04-24 18:01:20
End at: 2018-04-24 18:01:50
Local clock offset: 1.492 ms
Remote clock offset: -0.344 ms

Below is generated by plot.py at 2018-04-25 01:29:37
Datalink statistics
-- Total of 3 flows:
Average throughput: 44.57 Mbit/s
95th percentile per-packet one-way delay: 60.194 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 18.42 Mbit/s
95th percentile per-packet one-way delay: 51.517 ms
Loss rate: 0.45%
-- Flow 2:
Average throughput: 25.87 Mbit/s
95th percentile per-packet one-way delay: 56.282 ms
Loss rate: 0.48%
-- Flow 3:
Average throughput: 27.14 Mbit/s
95th percentile per-packet one-way delay: 67.244 ms
Loss rate: 0.83%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-04-24 18:25:23

End at: 2018-04-24 18:25:53

Local clock offset: 0.87 ms

Remote clock offset: 0.206 ms

Below is generated by plot.py at 2018-04-25 01:29:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 25.83 Mbit/s

95th percentile per-packet one-way delay: 48.249 ms

Loss rate: 0.63%

-- Flow 1:

Average throughput: 14.05 Mbit/s

95th percentile per-packet one-way delay: 53.360 ms

Loss rate: 0.53%

-- Flow 2:

Average throughput: 11.89 Mbit/s

95th percentile per-packet one-way delay: 43.319 ms

Loss rate: 0.55%

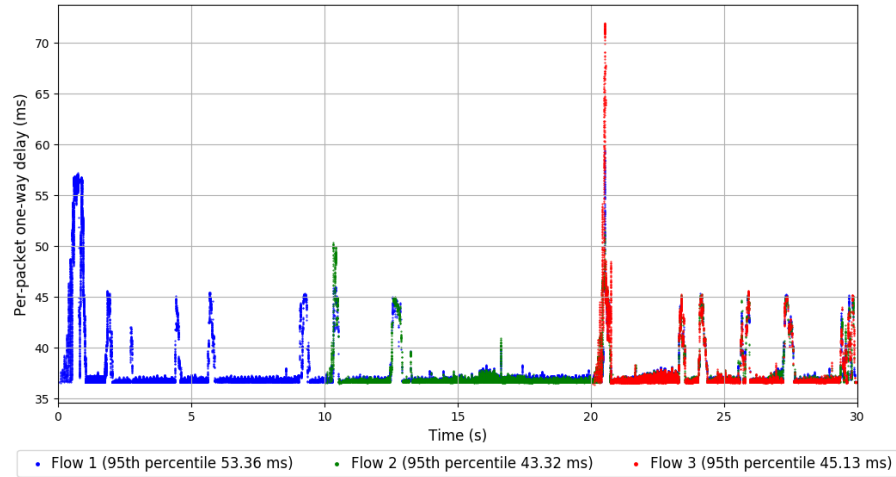
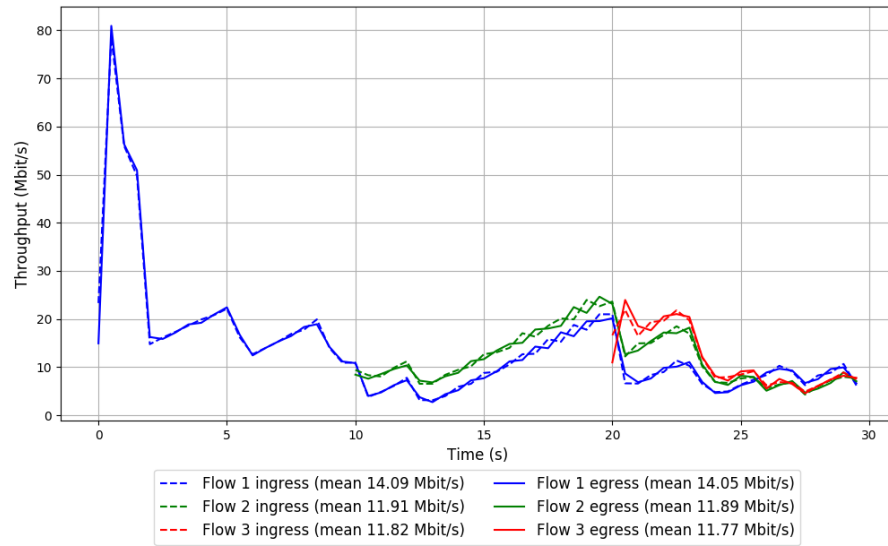
-- Flow 3:

Average throughput: 11.77 Mbit/s

95th percentile per-packet one-way delay: 45.132 ms

Loss rate: 1.16%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-04-24 18:49:45

End at: 2018-04-24 18:50:15

Local clock offset: 0.335 ms

Remote clock offset: 0.86 ms

Below is generated by plot.py at 2018-04-25 01:29:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 30.05 Mbit/s

95th percentile per-packet one-way delay: 46.903 ms

Loss rate: 0.47%

-- Flow 1:

Average throughput: 20.33 Mbit/s

95th percentile per-packet one-way delay: 46.936 ms

Loss rate: 0.30%

-- Flow 2:

Average throughput: 9.19 Mbit/s

95th percentile per-packet one-way delay: 45.437 ms

Loss rate: 0.70%

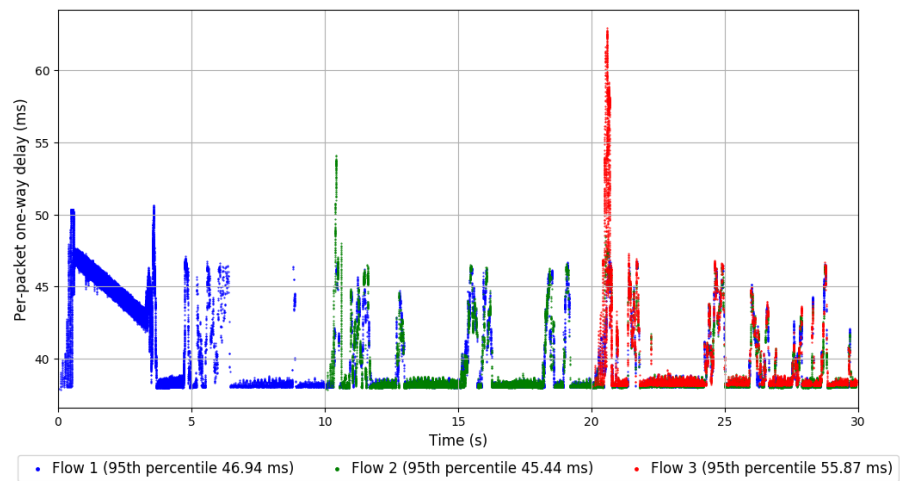
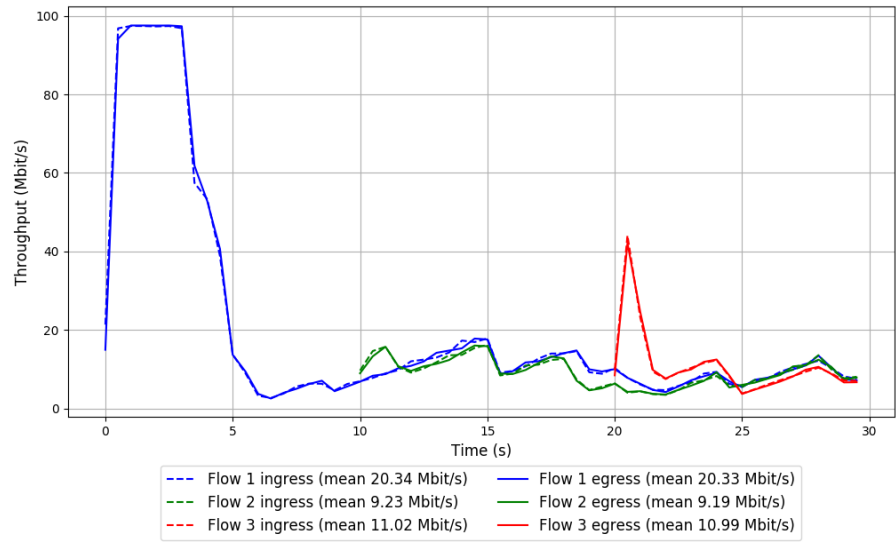
-- Flow 3:

Average throughput: 10.99 Mbit/s

95th percentile per-packet one-way delay: 55.868 ms

Loss rate: 1.04%

Run 5: Report of TCP Vegas — Data Link

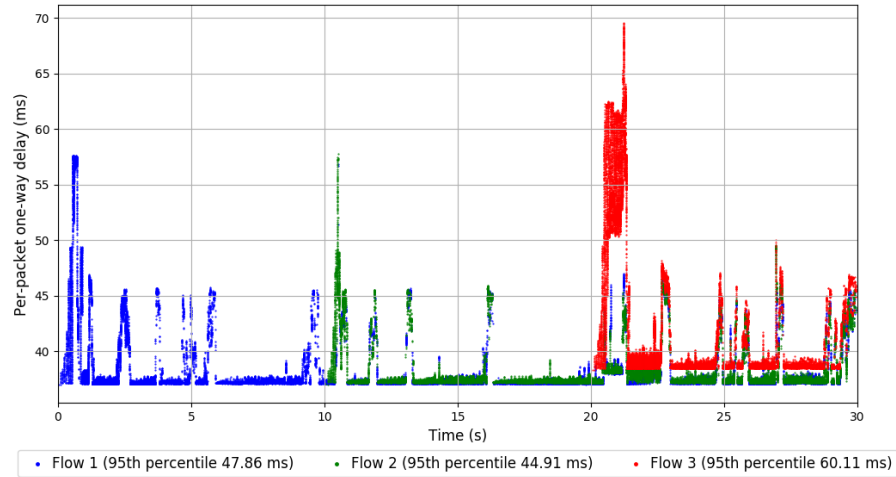
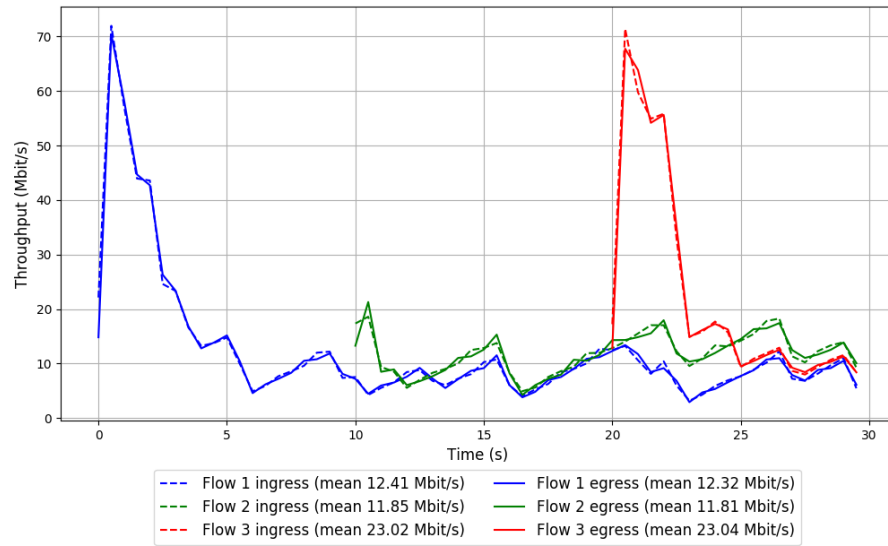


Run 6: Statistics of TCP Vegas

Start at: 2018-04-24 19:14:41
End at: 2018-04-24 19:15:11
Local clock offset: -0.178 ms
Remote clock offset: -0.518 ms

Below is generated by plot.py at 2018-04-25 01:29:37
Datalink statistics
-- Total of 3 flows:
Average throughput: 27.79 Mbit/s
95th percentile per-packet one-way delay: 55.346 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 12.32 Mbit/s
95th percentile per-packet one-way delay: 47.861 ms
Loss rate: 0.95%
-- Flow 2:
Average throughput: 11.81 Mbit/s
95th percentile per-packet one-way delay: 44.910 ms
Loss rate: 0.70%
-- Flow 3:
Average throughput: 23.04 Mbit/s
95th percentile per-packet one-way delay: 60.109 ms
Loss rate: 0.57%

Run 6: Report of TCP Vegas — Data Link

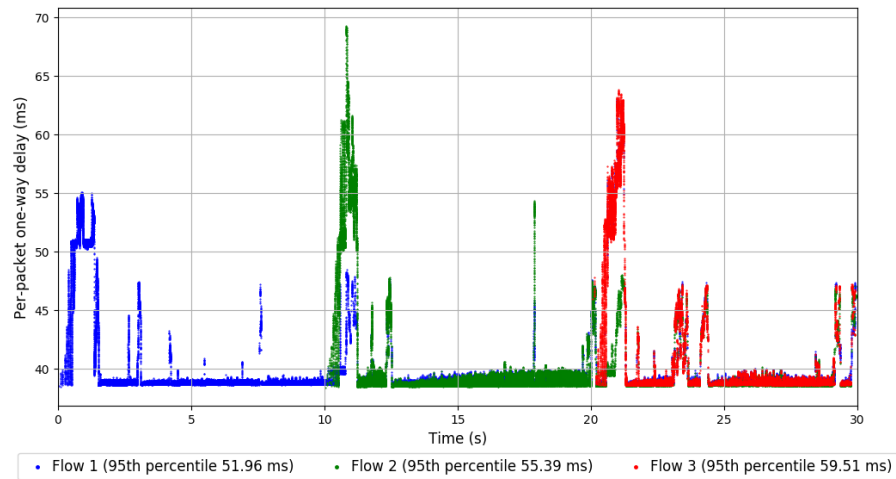
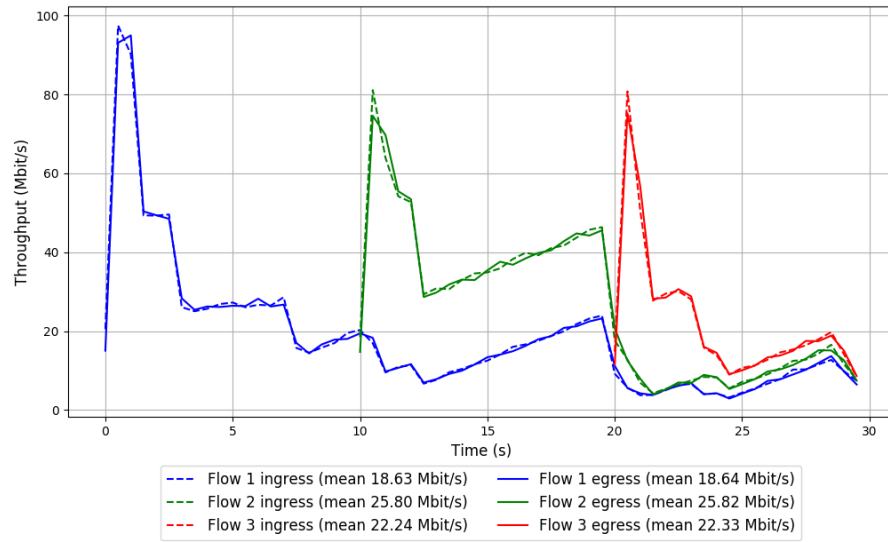


Run 7: Statistics of TCP Vegas

Start at: 2018-04-24 19:38:47
End at: 2018-04-24 19:39:17
Local clock offset: 1.272 ms
Remote clock offset: -0.852 ms

Below is generated by plot.py at 2018-04-25 01:29:37
Datalink statistics
-- Total of 3 flows:
Average throughput: 43.18 Mbit/s
95th percentile per-packet one-way delay: 54.699 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 18.64 Mbit/s
95th percentile per-packet one-way delay: 51.964 ms
Loss rate: 0.20%
-- Flow 2:
Average throughput: 25.82 Mbit/s
95th percentile per-packet one-way delay: 55.386 ms
Loss rate: 0.25%
-- Flow 3:
Average throughput: 22.33 Mbit/s
95th percentile per-packet one-way delay: 59.512 ms
Loss rate: 0.34%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-04-24 20:02:21

End at: 2018-04-24 20:02:51

Local clock offset: 1.126 ms

Remote clock offset: 0.459 ms

Below is generated by plot.py at 2018-04-25 01:29:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 36.94 Mbit/s

95th percentile per-packet one-way delay: 58.440 ms

Loss rate: 0.54%

-- Flow 1:

Average throughput: 18.55 Mbit/s

95th percentile per-packet one-way delay: 45.402 ms

Loss rate: 0.52%

-- Flow 2:

Average throughput: 18.20 Mbit/s

95th percentile per-packet one-way delay: 60.145 ms

Loss rate: 0.31%

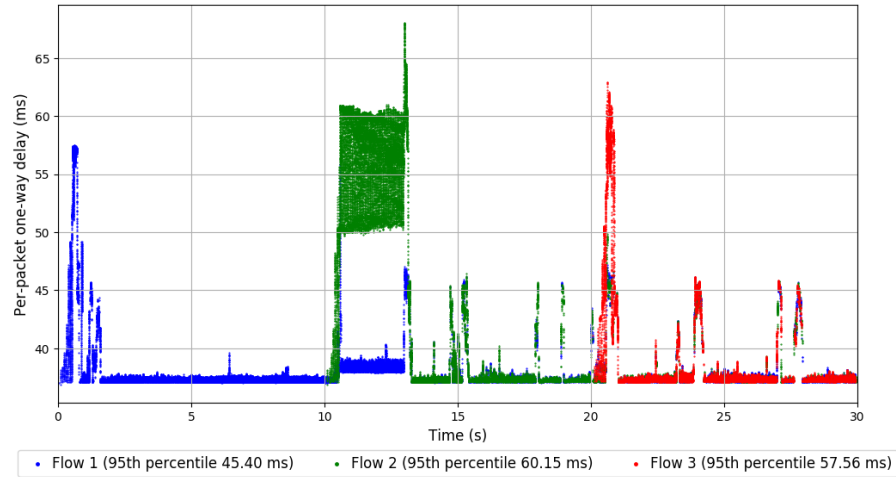
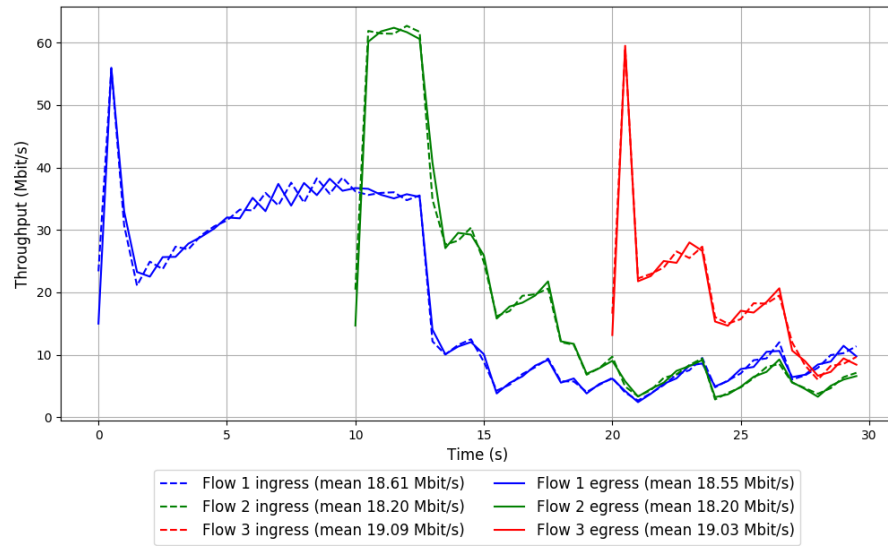
-- Flow 3:

Average throughput: 19.03 Mbit/s

95th percentile per-packet one-way delay: 57.564 ms

Loss rate: 1.04%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-04-24 20:26:21

End at: 2018-04-24 20:26:51

Local clock offset: 1.206 ms

Remote clock offset: 0.413 ms

Below is generated by plot.py at 2018-04-25 01:29:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 33.28 Mbit/s

95th percentile per-packet one-way delay: 56.228 ms

Loss rate: 0.59%

-- Flow 1:

Average throughput: 14.87 Mbit/s

95th percentile per-packet one-way delay: 53.489 ms

Loss rate: 0.66%

-- Flow 2:

Average throughput: 19.82 Mbit/s

95th percentile per-packet one-way delay: 56.653 ms

Loss rate: 0.36%

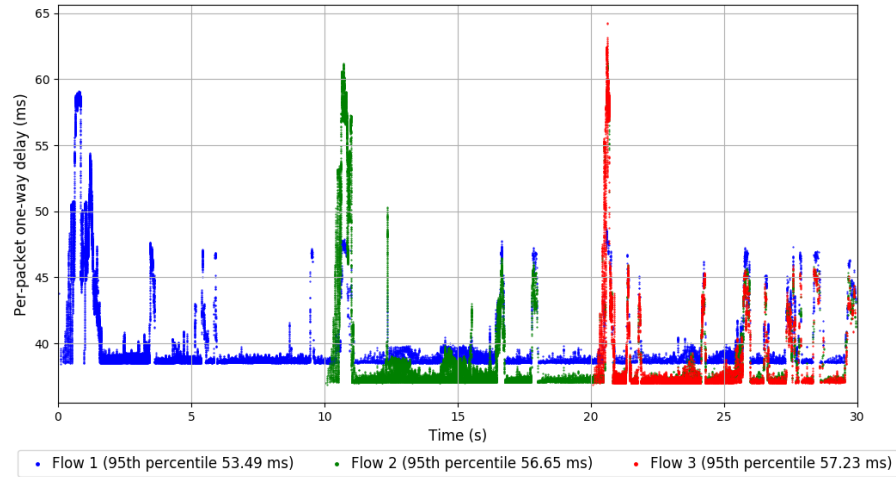
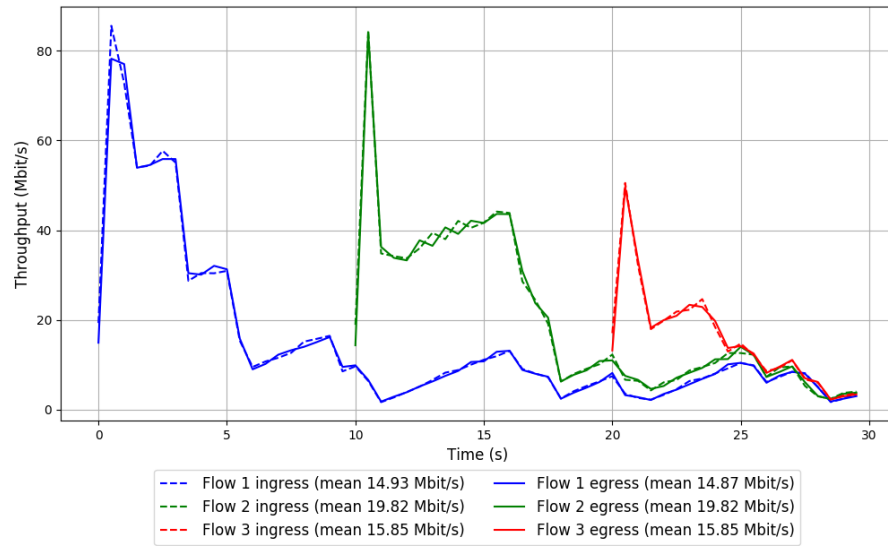
-- Flow 3:

Average throughput: 15.85 Mbit/s

95th percentile per-packet one-way delay: 57.229 ms

Loss rate: 0.93%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-04-24 20:51:00

End at: 2018-04-24 20:51:30

Local clock offset: 1.245 ms

Remote clock offset: 0.115 ms

Below is generated by plot.py at 2018-04-25 01:29:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 28.79 Mbit/s

95th percentile per-packet one-way delay: 56.218 ms

Loss rate: 0.65%

-- Flow 1:

Average throughput: 12.71 Mbit/s

95th percentile per-packet one-way delay: 56.460 ms

Loss rate: 0.64%

-- Flow 2:

Average throughput: 17.06 Mbit/s

95th percentile per-packet one-way delay: 54.559 ms

Loss rate: 0.43%

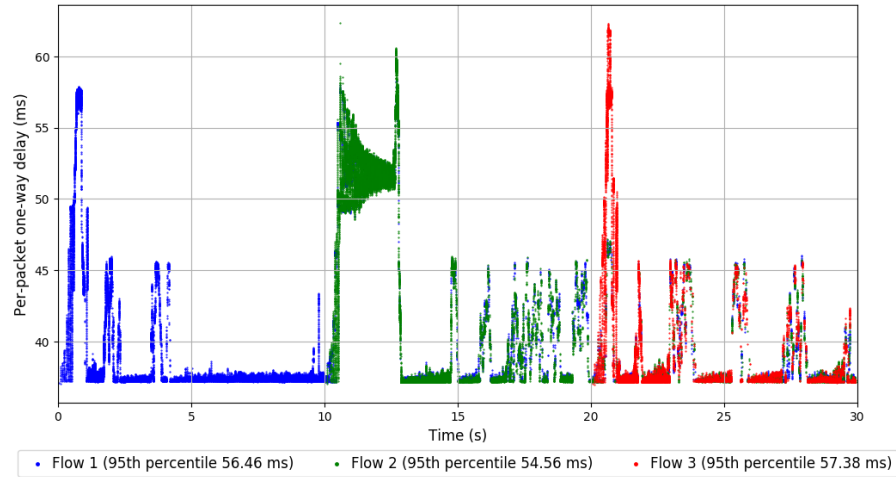
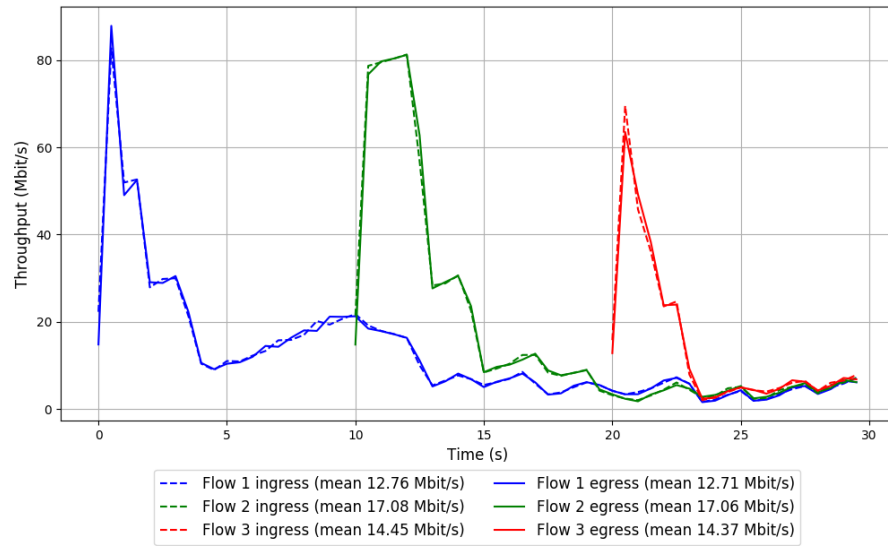
-- Flow 3:

Average throughput: 14.37 Mbit/s

95th percentile per-packet one-way delay: 57.381 ms

Loss rate: 1.21%

Run 10: Report of TCP Vegas — Data Link

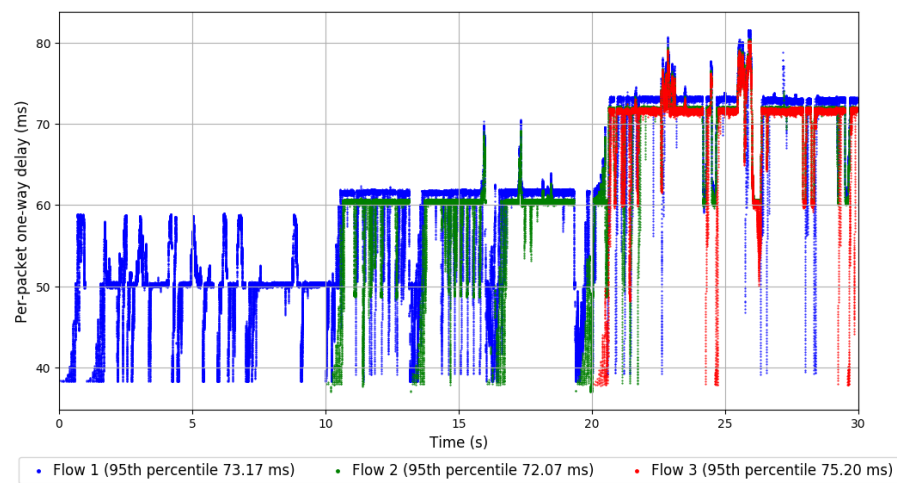
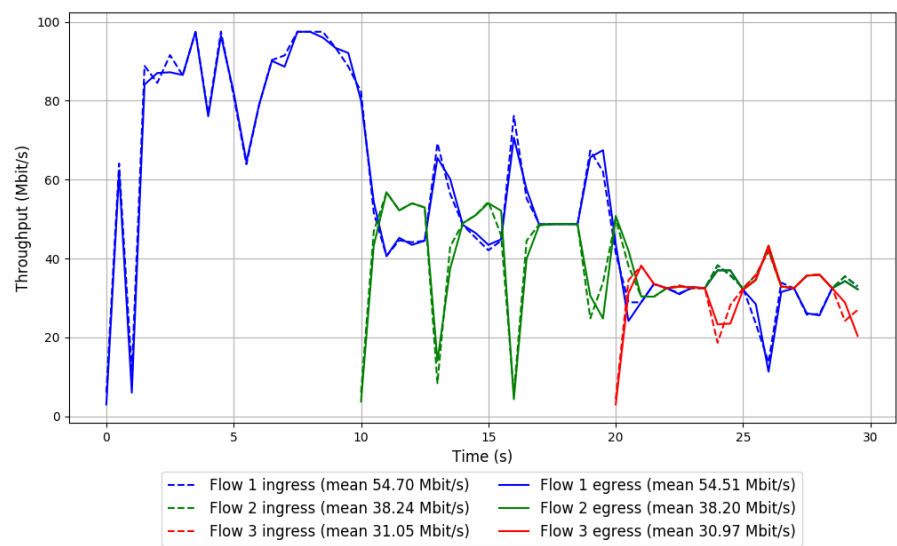


Run 1: Statistics of Verus

Start at: 2018-04-24 17:11:05
End at: 2018-04-24 17:11:35
Local clock offset: 0.96 ms
Remote clock offset: -0.632 ms

Below is generated by plot.py at 2018-04-25 01:29:37
Datalink statistics
-- Total of 3 flows:
Average throughput: 90.16 Mbit/s
95th percentile per-packet one-way delay: 73.167 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 54.51 Mbit/s
95th percentile per-packet one-way delay: 73.169 ms
Loss rate: 0.58%
-- Flow 2:
Average throughput: 38.20 Mbit/s
95th percentile per-packet one-way delay: 72.069 ms
Loss rate: 0.46%
-- Flow 3:
Average throughput: 30.97 Mbit/s
95th percentile per-packet one-way delay: 75.202 ms
Loss rate: 1.12%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-04-24 17:34:38

End at: 2018-04-24 17:35:08

Local clock offset: 1.242 ms

Remote clock offset: 0.026 ms

Below is generated by plot.py at 2018-04-25 01:29:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.03 Mbit/s

95th percentile per-packet one-way delay: 83.036 ms

Loss rate: 0.81%

-- Flow 1:

Average throughput: 59.15 Mbit/s

95th percentile per-packet one-way delay: 67.089 ms

Loss rate: 0.69%

-- Flow 2:

Average throughput: 33.96 Mbit/s

95th percentile per-packet one-way delay: 84.953 ms

Loss rate: 0.89%

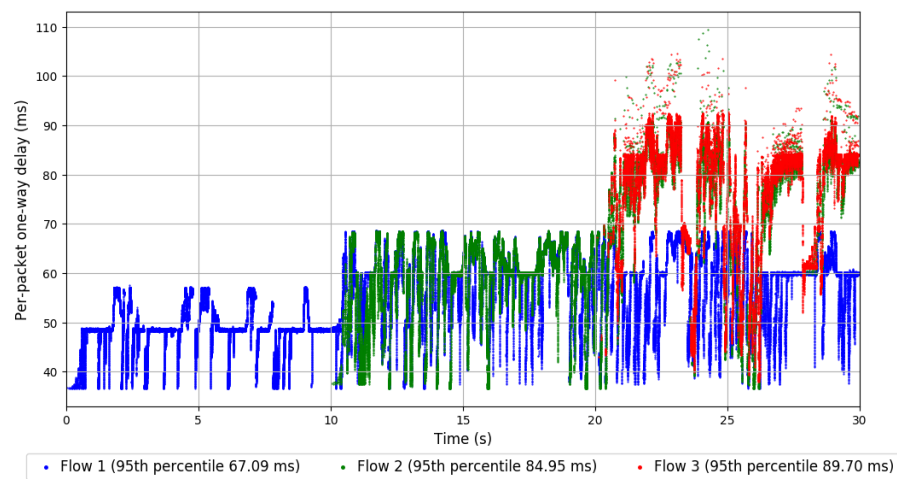
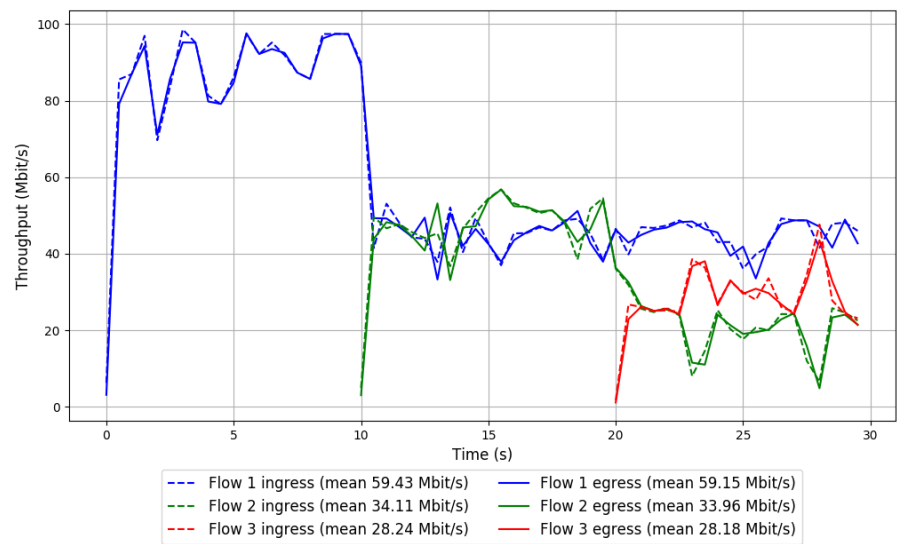
-- Flow 3:

Average throughput: 28.18 Mbit/s

95th percentile per-packet one-way delay: 89.699 ms

Loss rate: 1.43%

Run 2: Report of Verus — Data Link

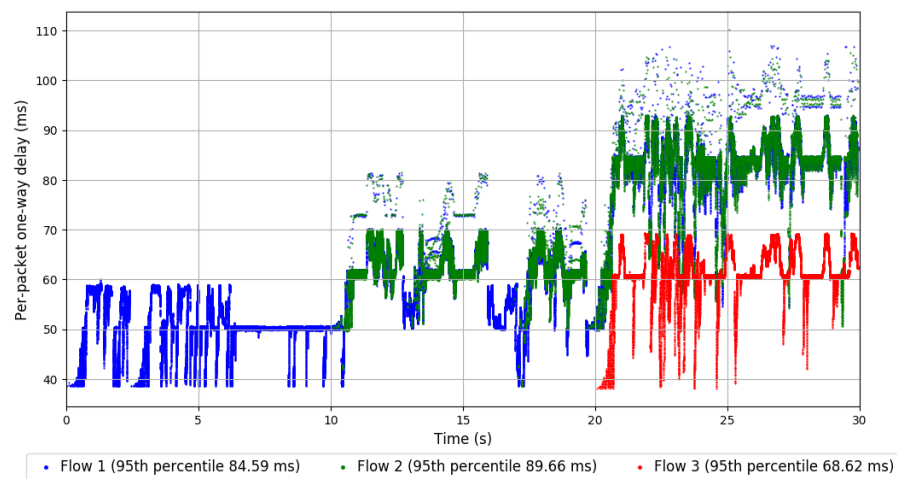
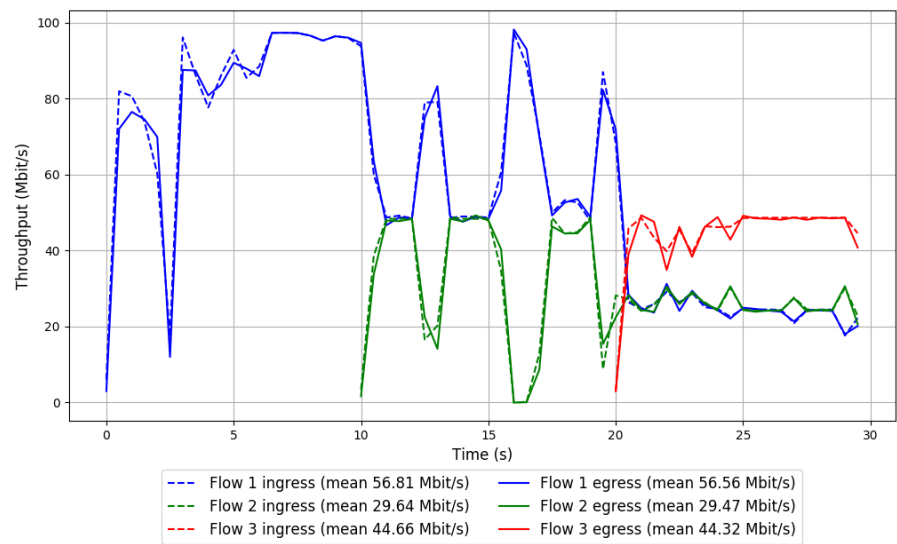


Run 3: Statistics of Verus

Start at: 2018-04-24 17:58:35
End at: 2018-04-24 17:59:05
Local clock offset: 1.453 ms
Remote clock offset: -0.425 ms

Below is generated by plot.py at 2018-04-25 01:29:40
Datalink statistics
-- Total of 3 flows:
Average throughput: 90.78 Mbit/s
95th percentile per-packet one-way delay: 85.508 ms
Loss rate: 0.90%
-- Flow 1:
Average throughput: 56.56 Mbit/s
95th percentile per-packet one-way delay: 84.593 ms
Loss rate: 0.73%
-- Flow 2:
Average throughput: 29.47 Mbit/s
95th percentile per-packet one-way delay: 89.663 ms
Loss rate: 0.99%
-- Flow 3:
Average throughput: 44.32 Mbit/s
95th percentile per-packet one-way delay: 68.622 ms
Loss rate: 1.43%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-04-24 18:22:27

End at: 2018-04-24 18:22:57

Local clock offset: 1.021 ms

Remote clock offset: 0.18 ms

Below is generated by plot.py at 2018-04-25 01:29:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.00 Mbit/s

95th percentile per-packet one-way delay: 84.203 ms

Loss rate: 1.17%

-- Flow 1:

Average throughput: 50.90 Mbit/s

95th percentile per-packet one-way delay: 84.102 ms

Loss rate: 1.10%

-- Flow 2:

Average throughput: 45.59 Mbit/s

95th percentile per-packet one-way delay: 68.010 ms

Loss rate: 1.12%

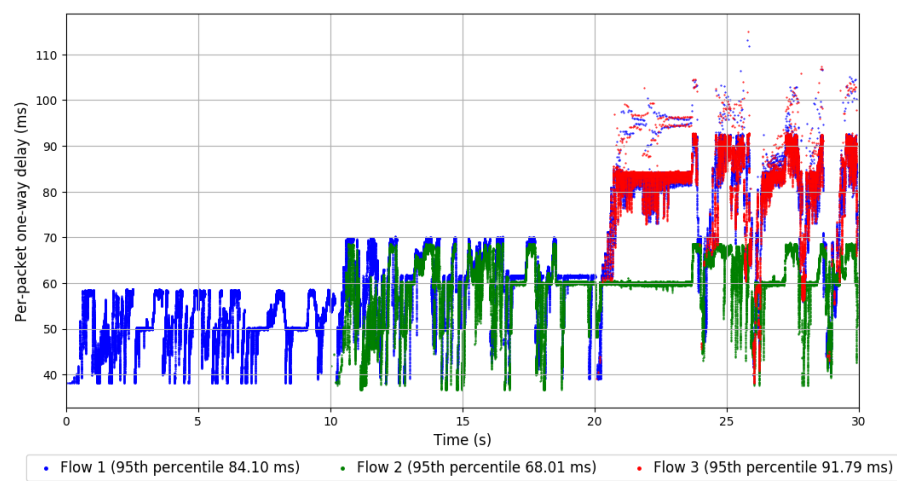
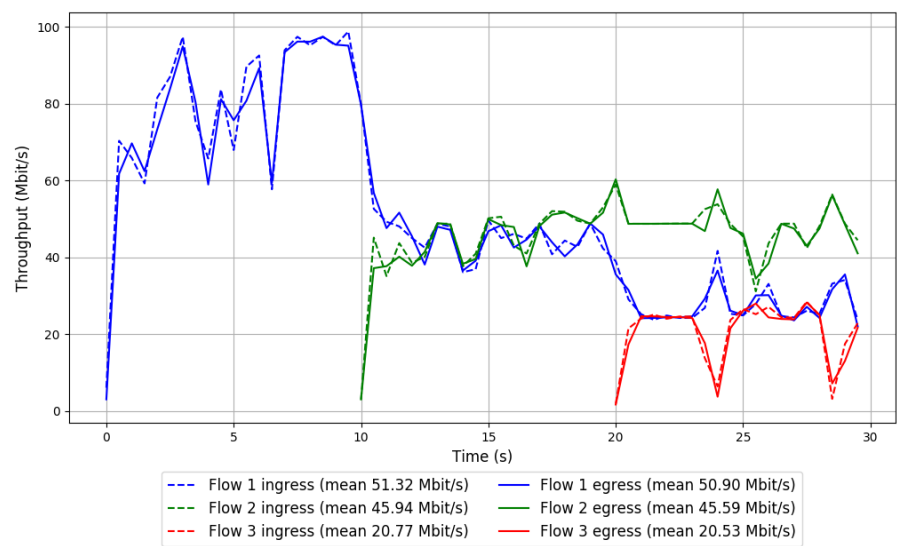
-- Flow 3:

Average throughput: 20.53 Mbit/s

95th percentile per-packet one-way delay: 91.794 ms

Loss rate: 1.96%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-04-24 18:47:03

End at: 2018-04-24 18:47:33

Local clock offset: 0.298 ms

Remote clock offset: 0.319 ms

Below is generated by plot.py at 2018-04-25 01:29:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 75.81 Mbit/s

95th percentile per-packet one-way delay: 82.703 ms

Loss rate: 1.11%

-- Flow 1:

Average throughput: 47.07 Mbit/s

95th percentile per-packet one-way delay: 68.016 ms

Loss rate: 1.06%

-- Flow 2:

Average throughput: 31.62 Mbit/s

95th percentile per-packet one-way delay: 84.775 ms

Loss rate: 1.14%

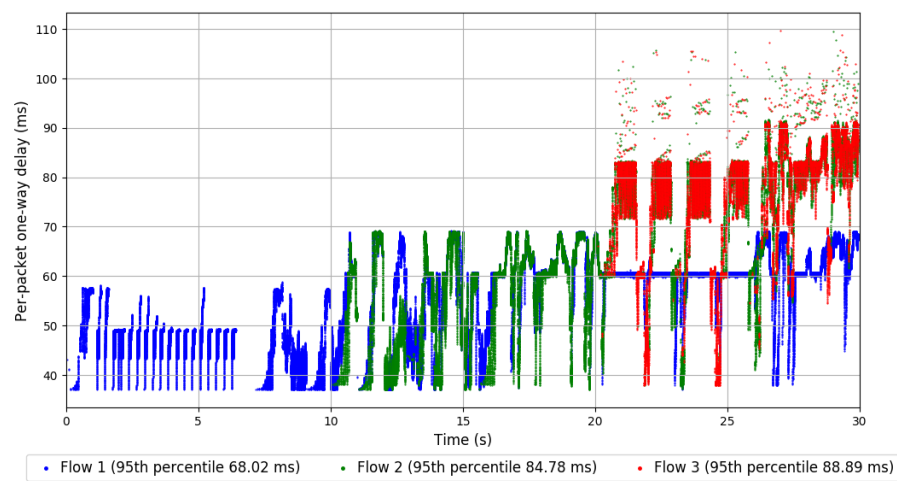
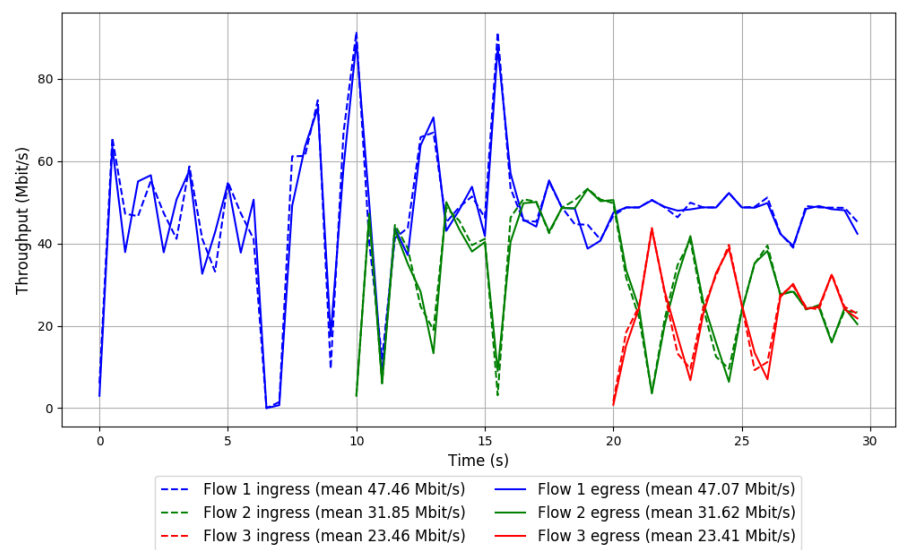
-- Flow 3:

Average throughput: 23.41 Mbit/s

95th percentile per-packet one-way delay: 88.890 ms

Loss rate: 1.30%

Run 5: Report of Verus — Data Link

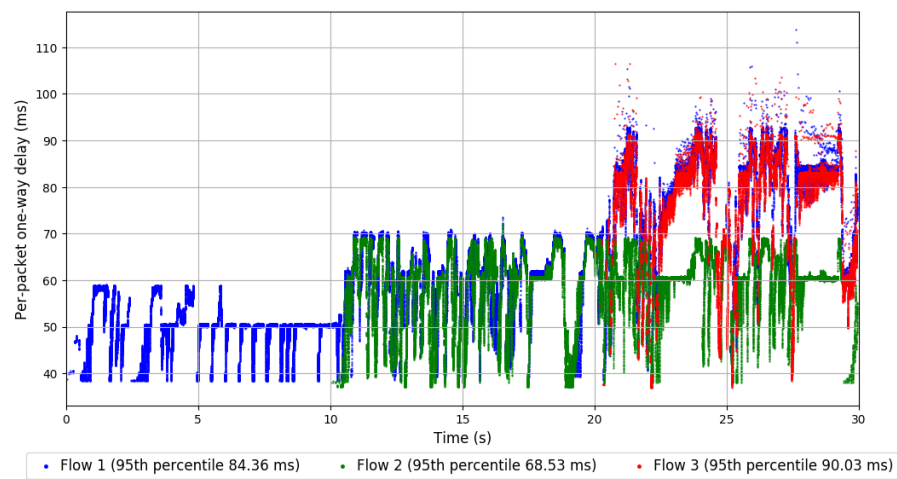
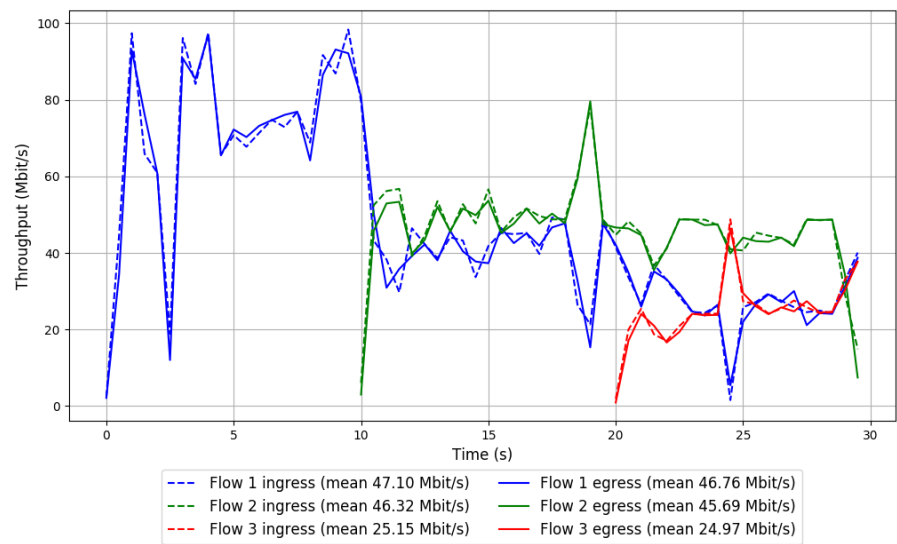


Run 6: Statistics of Verus

Start at: 2018-04-24 19:11:56
End at: 2018-04-24 19:12:26
Local clock offset: -0.127 ms
Remote clock offset: -0.353 ms

Below is generated by plot.py at 2018-04-25 01:29:40
Datalink statistics
-- Total of 3 flows:
Average throughput: 85.37 Mbit/s
95th percentile per-packet one-way delay: 84.167 ms
Loss rate: 1.32%
-- Flow 1:
Average throughput: 46.76 Mbit/s
95th percentile per-packet one-way delay: 84.360 ms
Loss rate: 0.96%
-- Flow 2:
Average throughput: 45.69 Mbit/s
95th percentile per-packet one-way delay: 68.527 ms
Loss rate: 1.70%
-- Flow 3:
Average throughput: 24.97 Mbit/s
95th percentile per-packet one-way delay: 90.035 ms
Loss rate: 1.99%

Run 6: Report of Verus — Data Link

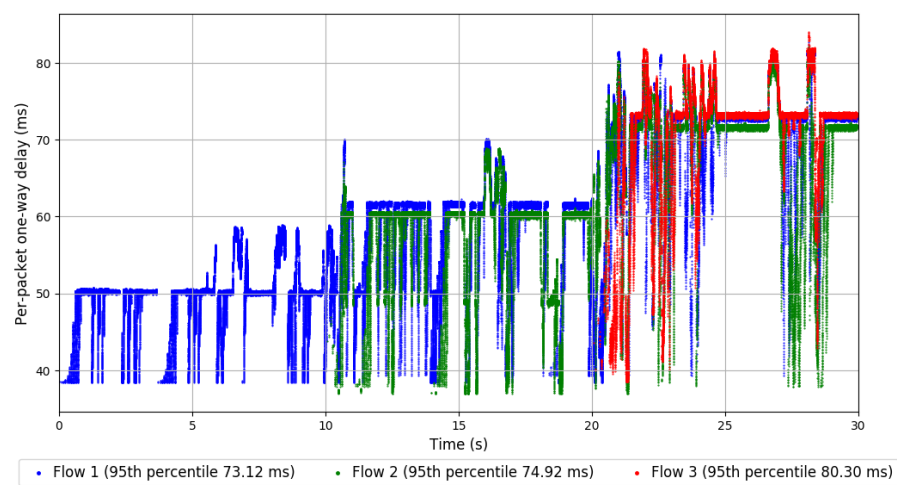
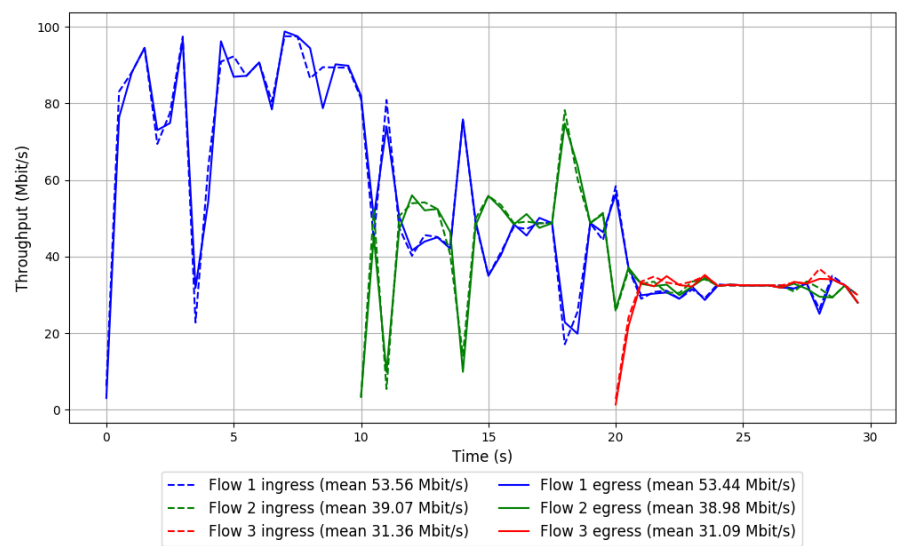


Run 7: Statistics of Verus

Start at: 2018-04-24 19:36:04
End at: 2018-04-24 19:36:34
Local clock offset: 1.123 ms
Remote clock offset: -0.995 ms

Below is generated by plot.py at 2018-04-25 01:30:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 89.62 Mbit/s
95th percentile per-packet one-way delay: 74.726 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 53.44 Mbit/s
95th percentile per-packet one-way delay: 73.122 ms
Loss rate: 0.45%
-- Flow 2:
Average throughput: 38.98 Mbit/s
95th percentile per-packet one-way delay: 74.916 ms
Loss rate: 0.68%
-- Flow 3:
Average throughput: 31.09 Mbit/s
95th percentile per-packet one-way delay: 80.303 ms
Loss rate: 1.77%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-04-24 19:59:36

End at: 2018-04-24 20:00:06

Local clock offset: 1.242 ms

Remote clock offset: 0.51 ms

Below is generated by plot.py at 2018-04-25 01:30:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.83 Mbit/s

95th percentile per-packet one-way delay: 78.391 ms

Loss rate: 1.21%

-- Flow 1:

Average throughput: 54.27 Mbit/s

95th percentile per-packet one-way delay: 74.169 ms

Loss rate: 1.10%

-- Flow 2:

Average throughput: 26.75 Mbit/s

95th percentile per-packet one-way delay: 84.256 ms

Loss rate: 0.80%

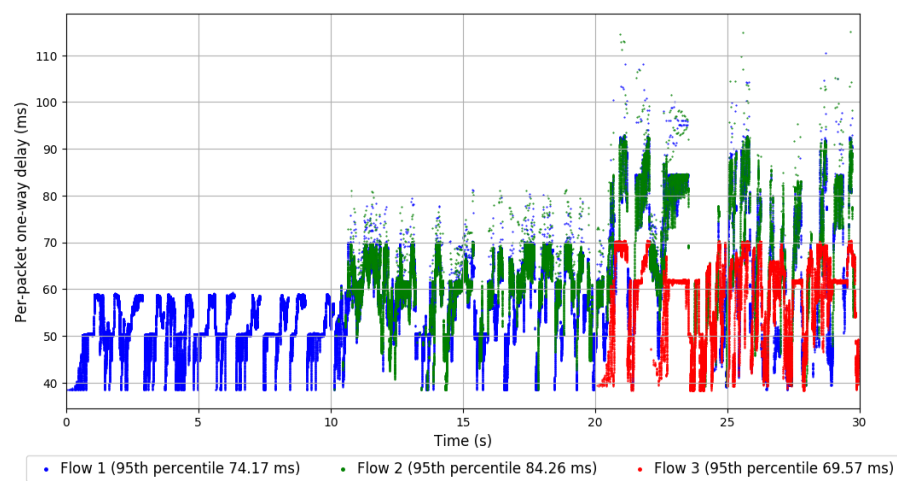
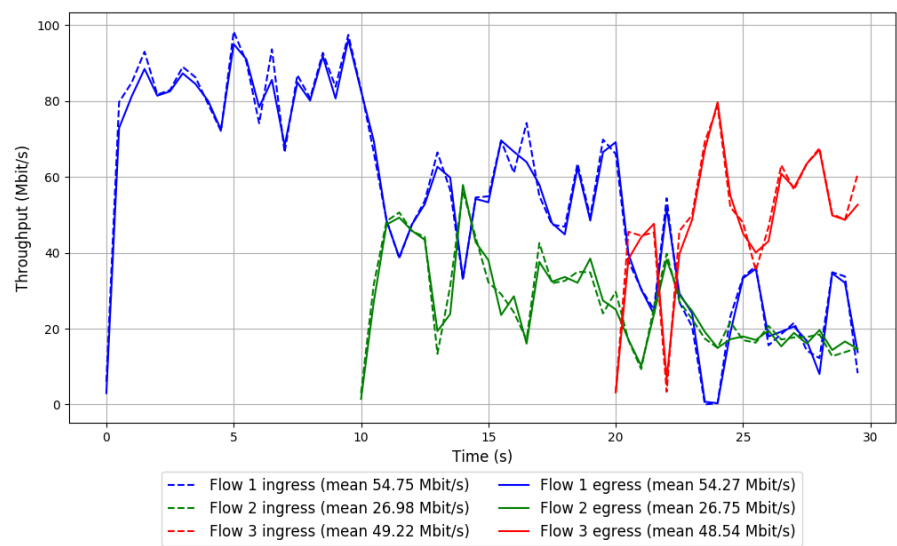
-- Flow 3:

Average throughput: 48.54 Mbit/s

95th percentile per-packet one-way delay: 69.571 ms

Loss rate: 2.02%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-04-24 20:23:32

End at: 2018-04-24 20:24:02

Local clock offset: 1.299 ms

Remote clock offset: 0.438 ms

Below is generated by plot.py at 2018-04-25 01:30:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.04 Mbit/s

95th percentile per-packet one-way delay: 83.217 ms

Loss rate: 1.52%

-- Flow 1:

Average throughput: 55.56 Mbit/s

95th percentile per-packet one-way delay: 69.390 ms

Loss rate: 1.37%

-- Flow 2:

Average throughput: 35.39 Mbit/s

95th percentile per-packet one-way delay: 86.933 ms

Loss rate: 1.50%

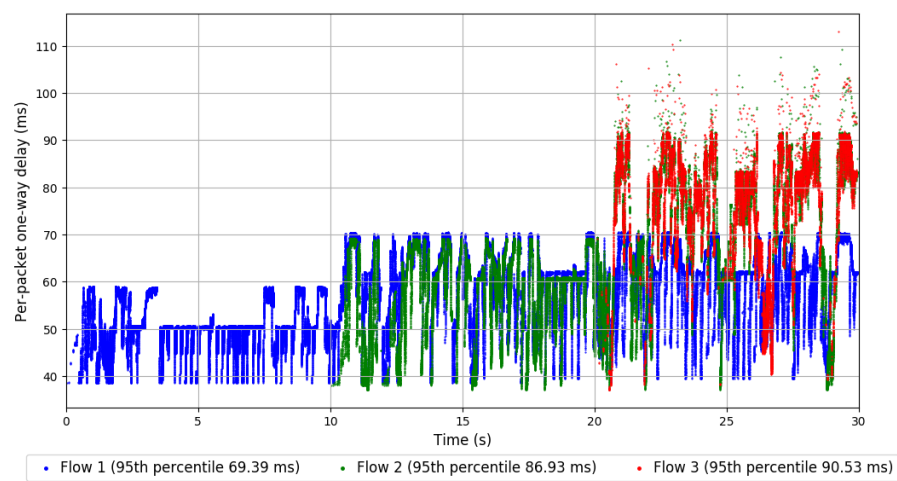
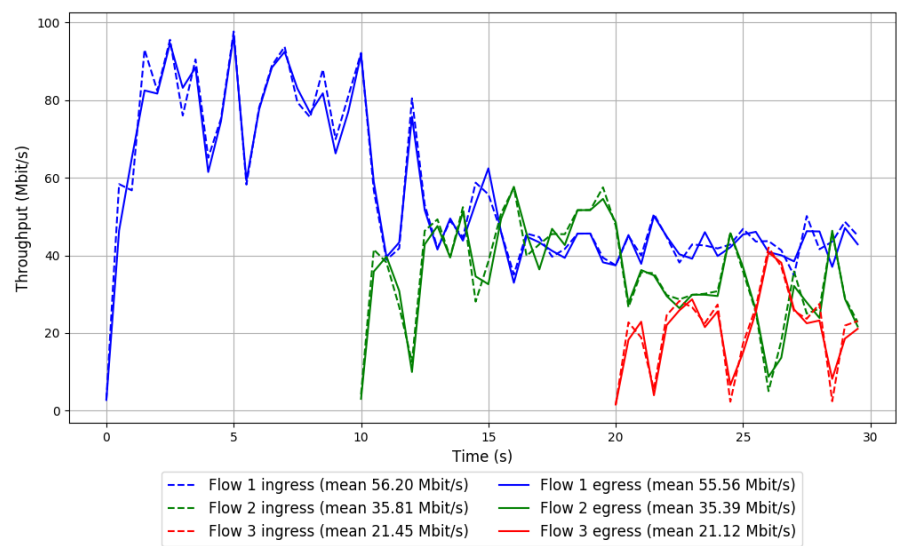
-- Flow 3:

Average throughput: 21.12 Mbit/s

95th percentile per-packet one-way delay: 90.534 ms

Loss rate: 2.76%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-04-24 20:48:09

End at: 2018-04-24 20:48:39

Local clock offset: 1.25 ms

Remote clock offset: 0.827 ms

Below is generated by plot.py at 2018-04-25 01:30:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 75.10 Mbit/s

95th percentile per-packet one-way delay: 78.689 ms

Loss rate: 1.71%

-- Flow 1:

Average throughput: 43.63 Mbit/s

95th percentile per-packet one-way delay: 68.900 ms

Loss rate: 1.54%

-- Flow 2:

Average throughput: 36.66 Mbit/s

95th percentile per-packet one-way delay: 82.309 ms

Loss rate: 1.73%

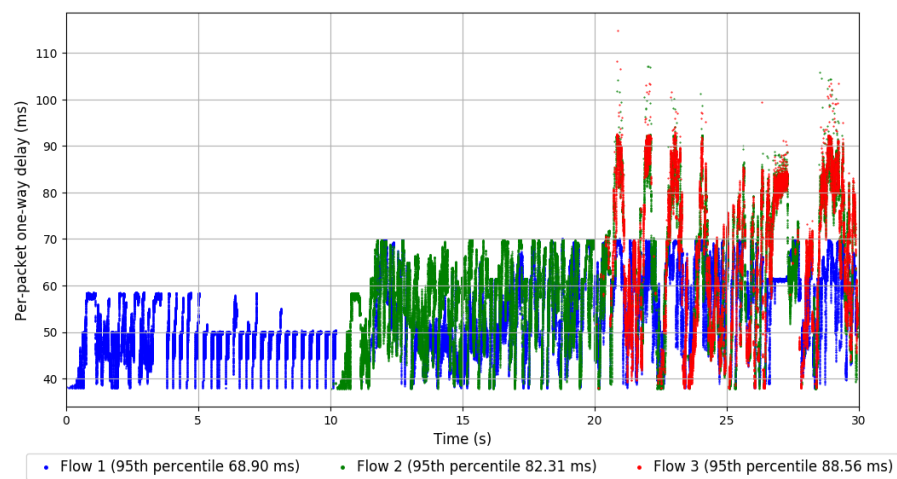
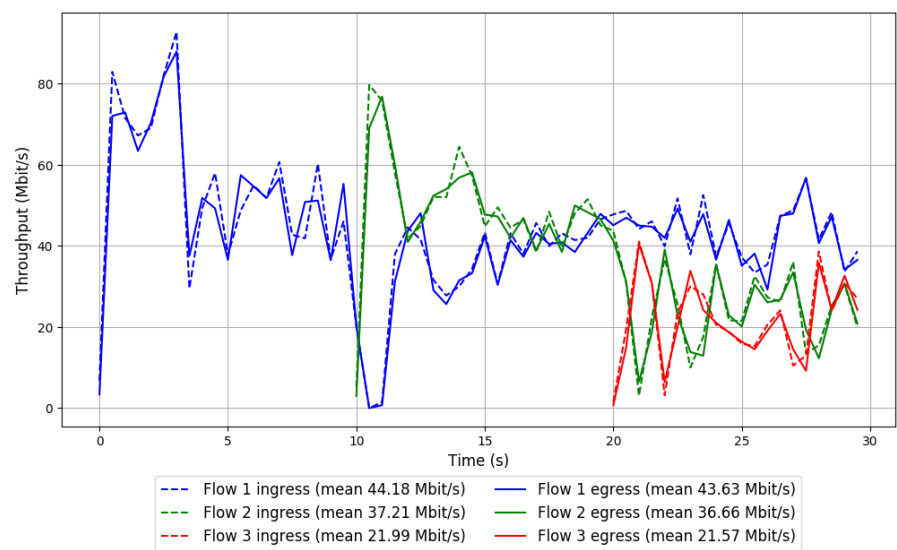
-- Flow 3:

Average throughput: 21.57 Mbit/s

95th percentile per-packet one-way delay: 88.559 ms

Loss rate: 2.68%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2018-04-24 17:06:56

End at: 2018-04-24 17:07:26

Local clock offset: 0.94 ms

Remote clock offset: -0.57 ms

Below is generated by plot.py at 2018-04-25 01:32:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 90.53 Mbit/s

95th percentile per-packet one-way delay: 66.732 ms

Loss rate: 0.49%

-- Flow 1:

Average throughput: 58.73 Mbit/s

95th percentile per-packet one-way delay: 67.172 ms

Loss rate: 0.42%

-- Flow 2:

Average throughput: 32.44 Mbit/s

95th percentile per-packet one-way delay: 49.869 ms

Loss rate: 0.56%

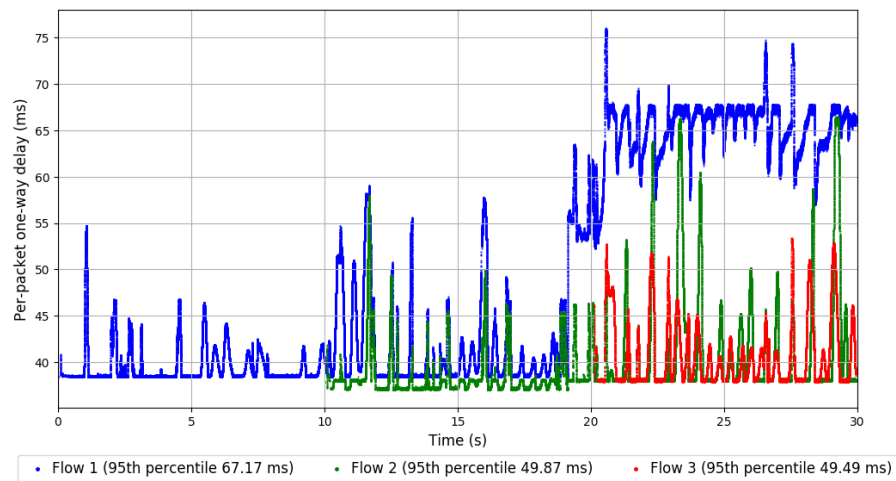
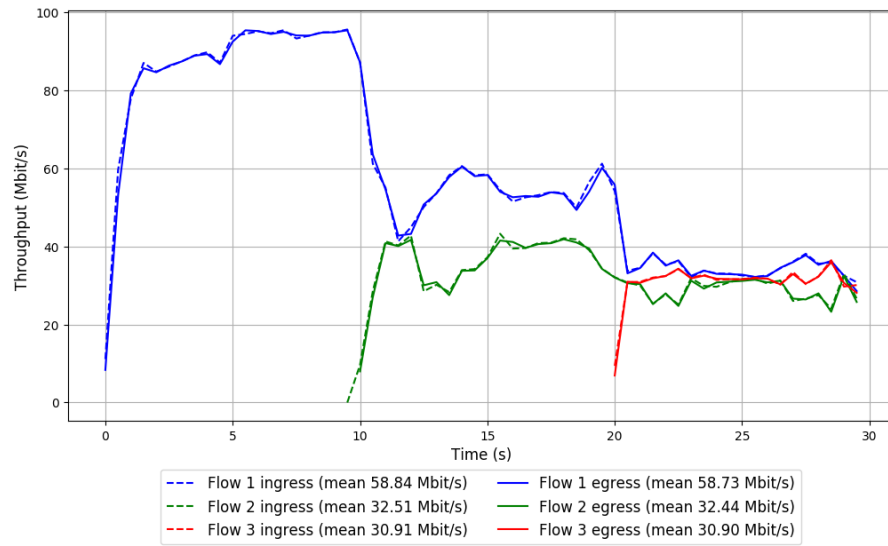
-- Flow 3:

Average throughput: 30.90 Mbit/s

95th percentile per-packet one-way delay: 49.488 ms

Loss rate: 0.79%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-04-24 17:30:29

End at: 2018-04-24 17:30:59

Local clock offset: 1.24 ms

Remote clock offset: 0.048 ms

Below is generated by plot.py at 2018-04-25 01:32:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.60 Mbit/s

95th percentile per-packet one-way delay: 65.569 ms

Loss rate: 0.77%

-- Flow 1:

Average throughput: 58.50 Mbit/s

95th percentile per-packet one-way delay: 65.854 ms

Loss rate: 0.72%

-- Flow 2:

Average throughput: 48.09 Mbit/s

95th percentile per-packet one-way delay: 63.742 ms

Loss rate: 0.88%

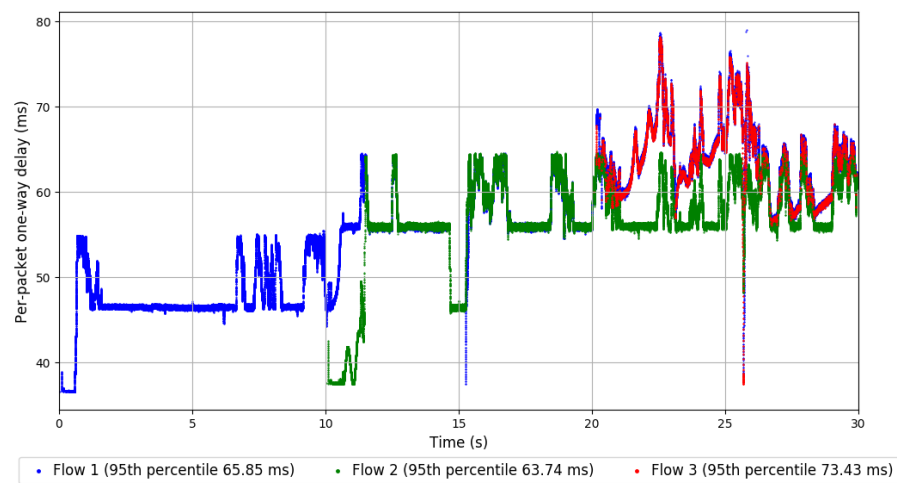
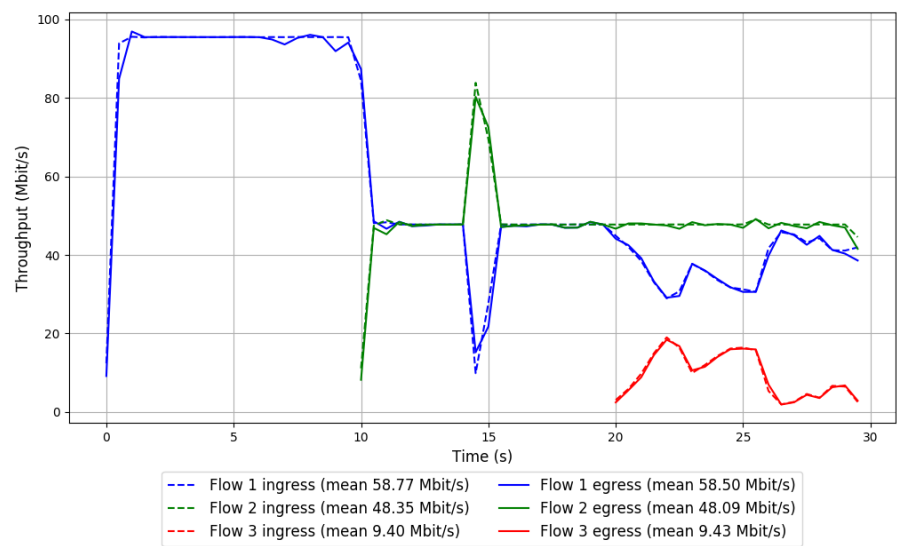
-- Flow 3:

Average throughput: 9.43 Mbit/s

95th percentile per-packet one-way delay: 73.427 ms

Loss rate: 0.69%

Run 2: Report of Copa — Data Link

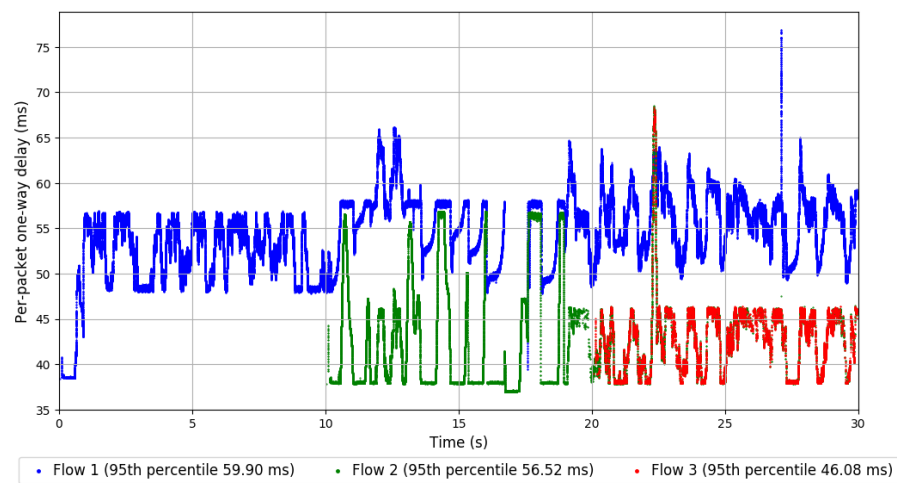
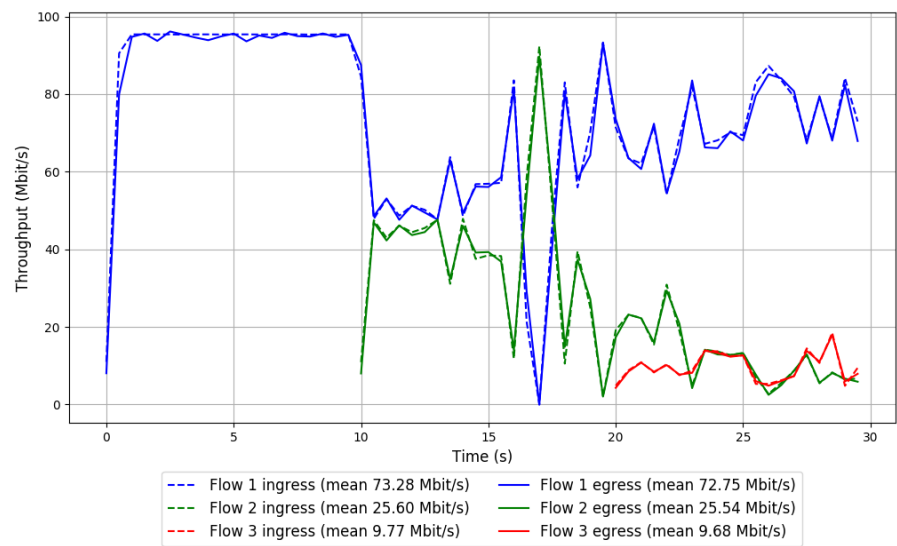


Run 3: Statistics of Copa

Start at: 2018-04-24 17:54:21
End at: 2018-04-24 17:54:51
Local clock offset: 1.349 ms
Remote clock offset: -0.539 ms

Below is generated by plot.py at 2018-04-25 01:32:05
Datalink statistics
-- Total of 3 flows:
Average throughput: 92.95 Mbit/s
95th percentile per-packet one-way delay: 59.505 ms
Loss rate: 0.90%
-- Flow 1:
Average throughput: 72.75 Mbit/s
95th percentile per-packet one-way delay: 59.895 ms
Loss rate: 0.95%
-- Flow 2:
Average throughput: 25.54 Mbit/s
95th percentile per-packet one-way delay: 56.522 ms
Loss rate: 0.57%
-- Flow 3:
Average throughput: 9.68 Mbit/s
95th percentile per-packet one-way delay: 46.084 ms
Loss rate: 1.67%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

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

End at: 2018-04-24 18:18:39

Local clock offset: 1.175 ms

Remote clock offset: 0.237 ms

Below is generated by plot.py at 2018-04-25 01:32:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 80.14 Mbit/s

95th percentile per-packet one-way delay: 67.084 ms

Loss rate: 0.98%

-- Flow 1:

Average throughput: 59.87 Mbit/s

95th percentile per-packet one-way delay: 65.420 ms

Loss rate: 0.66%

-- Flow 2:

Average throughput: 24.90 Mbit/s

95th percentile per-packet one-way delay: 69.787 ms

Loss rate: 1.88%

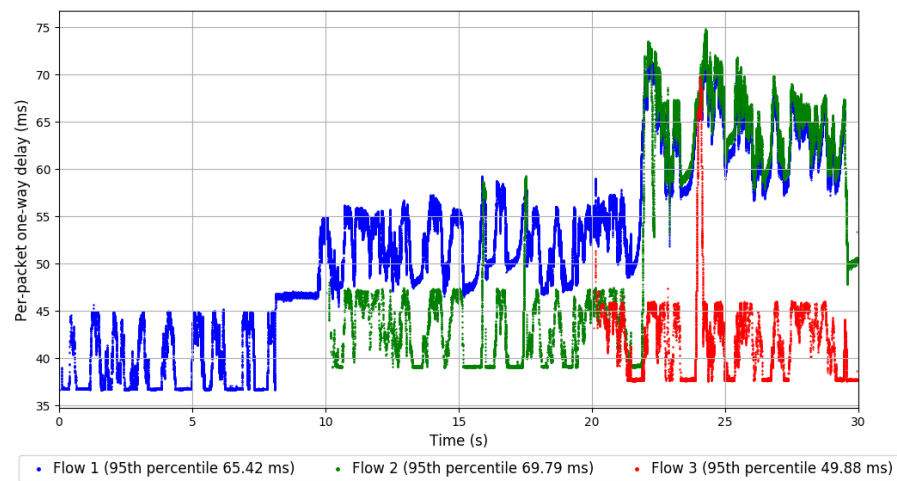
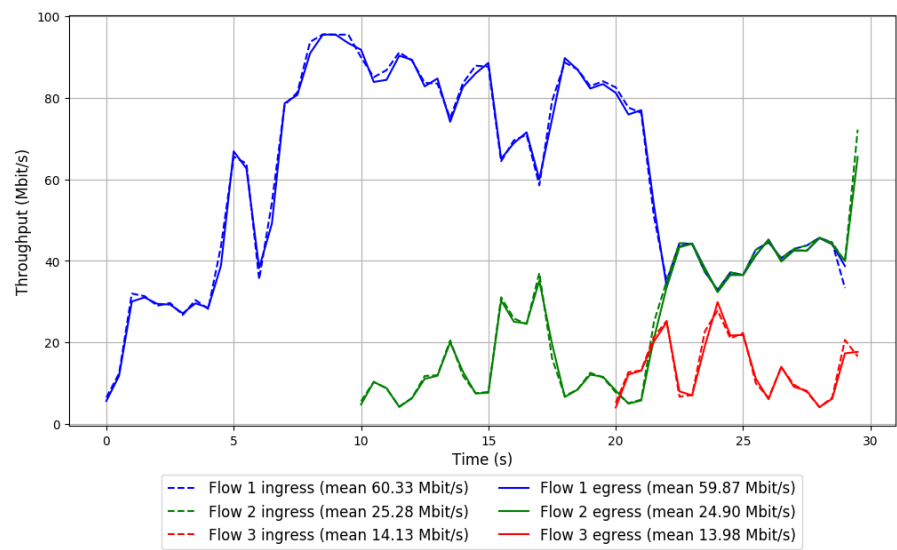
-- Flow 3:

Average throughput: 13.98 Mbit/s

95th percentile per-packet one-way delay: 49.882 ms

Loss rate: 1.81%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-04-24 18:42:53

End at: 2018-04-24 18:43:23

Local clock offset: 0.455 ms

Remote clock offset: 0.745 ms

Below is generated by plot.py at 2018-04-25 01:33:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.23 Mbit/s

95th percentile per-packet one-way delay: 63.219 ms

Loss rate: 0.84%

-- Flow 1:

Average throughput: 61.11 Mbit/s

95th percentile per-packet one-way delay: 63.374 ms

Loss rate: 0.81%

-- Flow 2:

Average throughput: 30.15 Mbit/s

95th percentile per-packet one-way delay: 56.615 ms

Loss rate: 0.61%

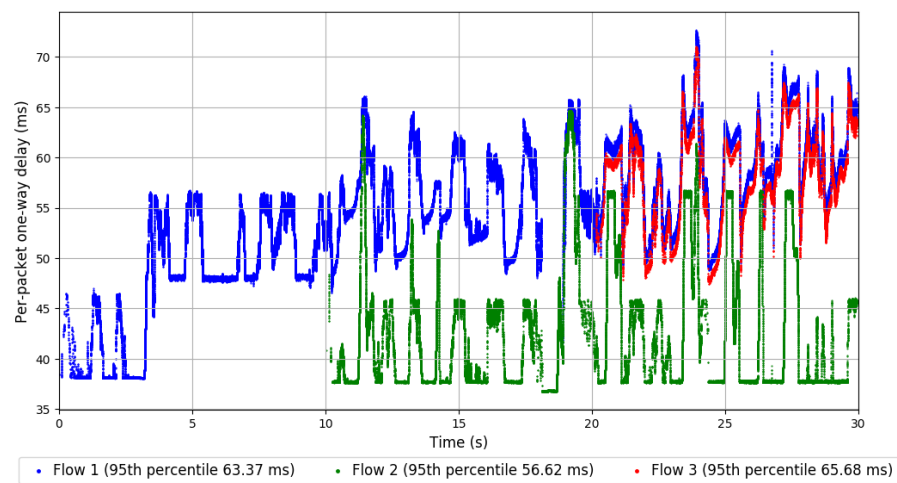
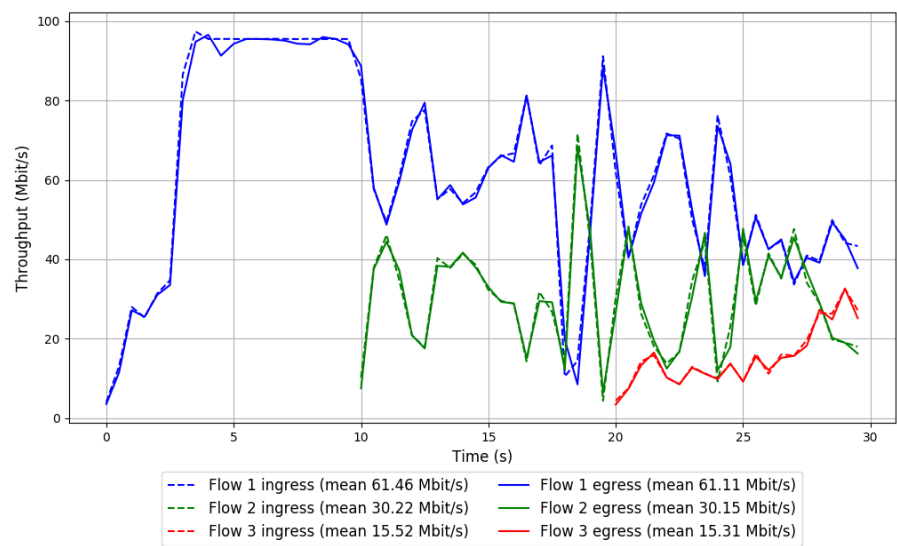
-- Flow 3:

Average throughput: 15.31 Mbit/s

95th percentile per-packet one-way delay: 65.676 ms

Loss rate: 2.13%

Run 5: Report of Copa — Data Link

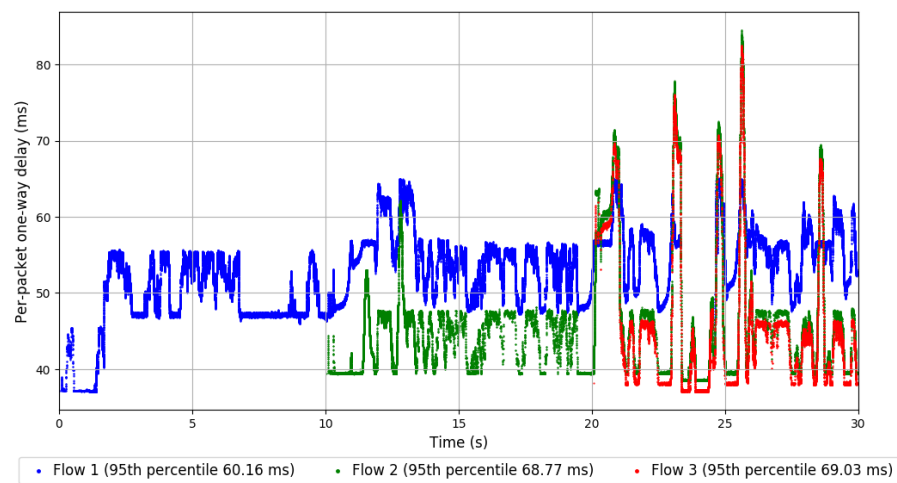
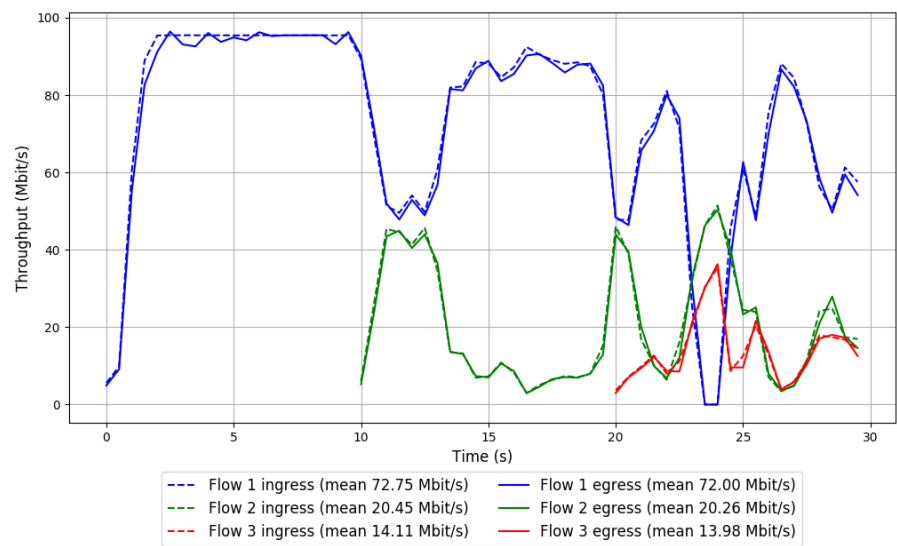


Run 6: Statistics of Copa

Start at: 2018-04-24 19:07:49
End at: 2018-04-24 19:08:19
Local clock offset: -0.057 ms
Remote clock offset: -0.005 ms

Below is generated by plot.py at 2018-04-25 01:33:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 90.10 Mbit/s
95th percentile per-packet one-way delay: 61.359 ms
Loss rate: 1.27%
-- Flow 1:
Average throughput: 72.00 Mbit/s
95th percentile per-packet one-way delay: 60.163 ms
Loss rate: 1.25%
-- Flow 2:
Average throughput: 20.26 Mbit/s
95th percentile per-packet one-way delay: 68.771 ms
Loss rate: 1.27%
-- Flow 3:
Average throughput: 13.98 Mbit/s
95th percentile per-packet one-way delay: 69.029 ms
Loss rate: 1.59%

Run 6: Report of Copa — Data Link

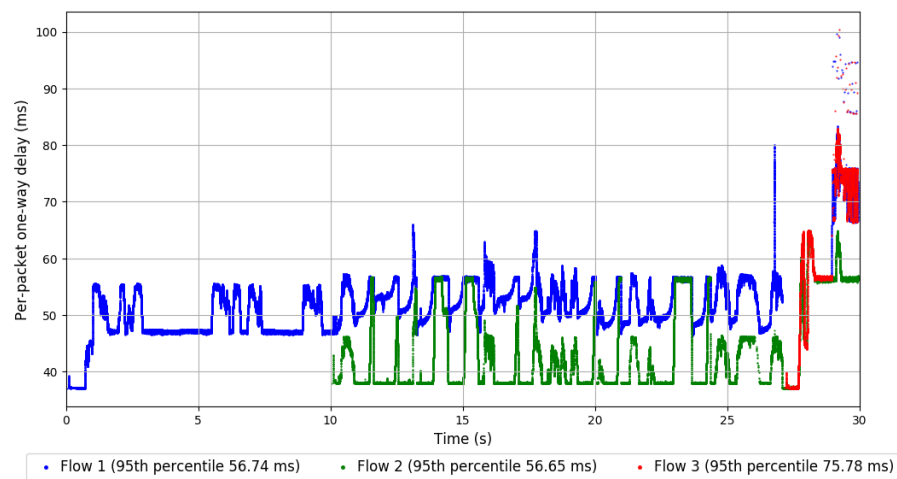
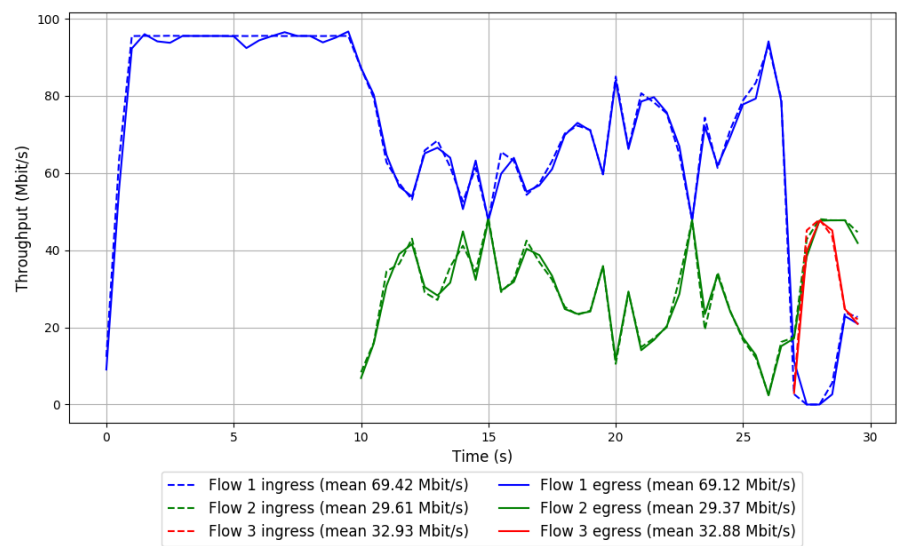


Run 7: Statistics of Copa

Start at: 2018-04-24 19:31:47
End at: 2018-04-24 19:32:17
Local clock offset: 1.093 ms
Remote clock offset: -0.918 ms

Below is generated by plot.py at 2018-04-25 01:33:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 91.69 Mbit/s
95th percentile per-packet one-way delay: 57.076 ms
Loss rate: 0.90%
-- Flow 1:
Average throughput: 69.12 Mbit/s
95th percentile per-packet one-way delay: 56.741 ms
Loss rate: 0.73%
-- Flow 2:
Average throughput: 29.37 Mbit/s
95th percentile per-packet one-way delay: 56.647 ms
Loss rate: 1.14%
-- Flow 3:
Average throughput: 32.88 Mbit/s
95th percentile per-packet one-way delay: 75.775 ms
Loss rate: 3.22%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-04-24 19:55:29

End at: 2018-04-24 19:55:59

Local clock offset: 1.311 ms

Remote clock offset: 0.451 ms

Below is generated by plot.py at 2018-04-25 01:33:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.56 Mbit/s

95th percentile per-packet one-way delay: 64.806 ms

Loss rate: 0.91%

-- Flow 1:

Average throughput: 57.87 Mbit/s

95th percentile per-packet one-way delay: 65.148 ms

Loss rate: 0.83%

-- Flow 2:

Average throughput: 48.19 Mbit/s

95th percentile per-packet one-way delay: 64.285 ms

Loss rate: 1.08%

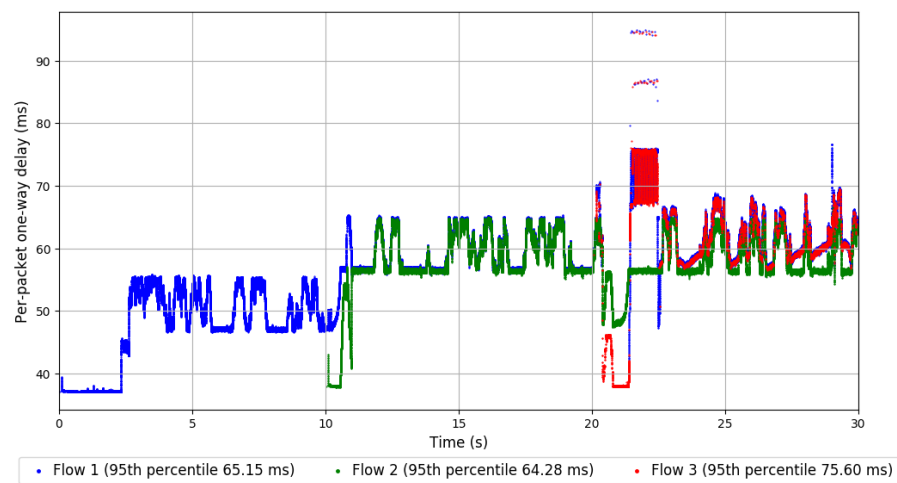
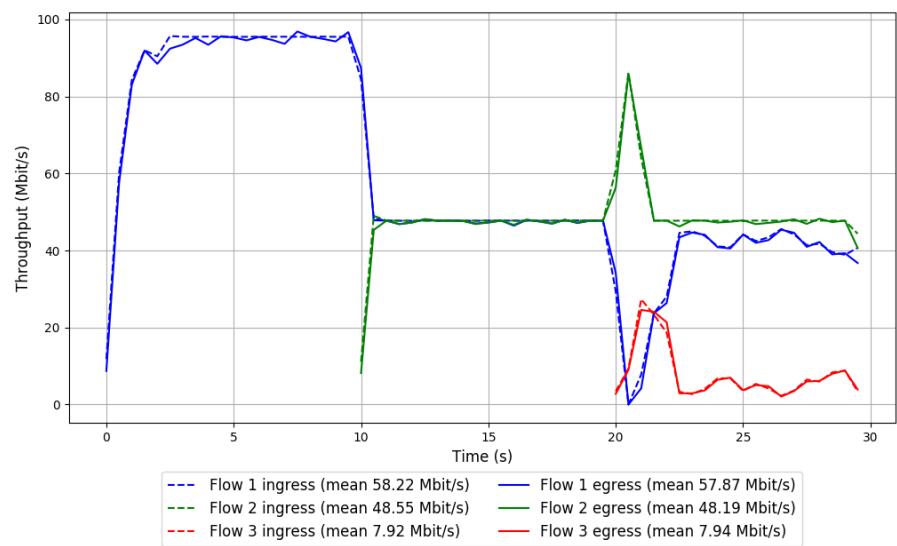
-- Flow 3:

Average throughput: 7.94 Mbit/s

95th percentile per-packet one-way delay: 75.604 ms

Loss rate: 0.65%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-04-24 20:19:18

End at: 2018-04-24 20:19:48

Local clock offset: 1.179 ms

Remote clock offset: 0.498 ms

Below is generated by plot.py at 2018-04-25 01:34:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.28 Mbit/s

95th percentile per-packet one-way delay: 60.444 ms

Loss rate: 0.68%

-- Flow 1:

Average throughput: 70.32 Mbit/s

95th percentile per-packet one-way delay: 60.463 ms

Loss rate: 0.68%

-- Flow 2:

Average throughput: 21.48 Mbit/s

95th percentile per-packet one-way delay: 61.727 ms

Loss rate: 0.45%

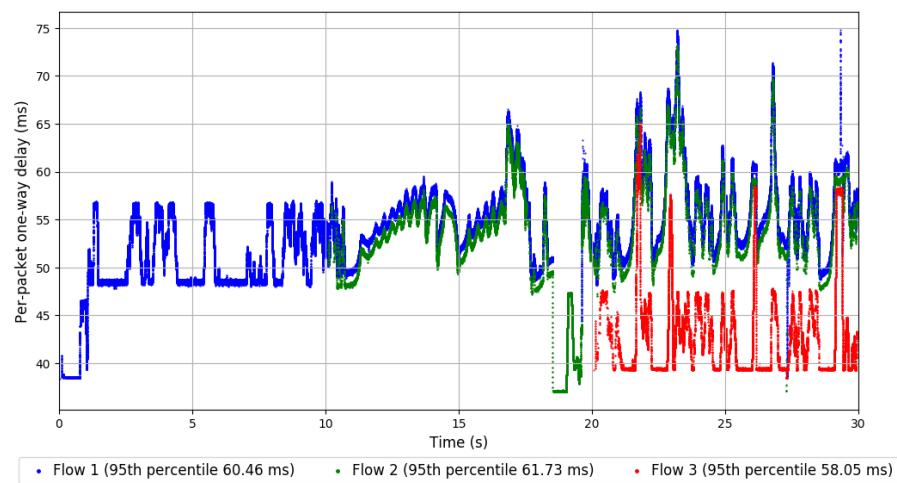
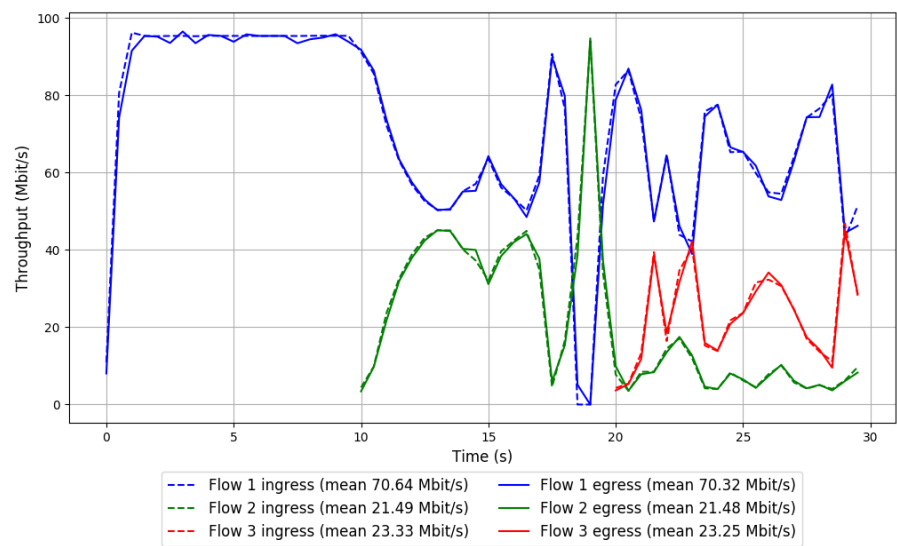
-- Flow 3:

Average throughput: 23.25 Mbit/s

95th percentile per-packet one-way delay: 58.046 ms

Loss rate: 1.04%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-04-24 20:43:34

End at: 2018-04-24 20:44:04

Local clock offset: 1.117 ms

Remote clock offset: 0.517 ms

Below is generated by plot.py at 2018-04-25 01:34:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 90.02 Mbit/s

95th percentile per-packet one-way delay: 55.970 ms

Loss rate: 1.82%

-- Flow 1:

Average throughput: 84.49 Mbit/s

95th percentile per-packet one-way delay: 56.009 ms

Loss rate: 1.80%

-- Flow 2:

Average throughput: 7.55 Mbit/s

95th percentile per-packet one-way delay: 47.389 ms

Loss rate: 1.68%

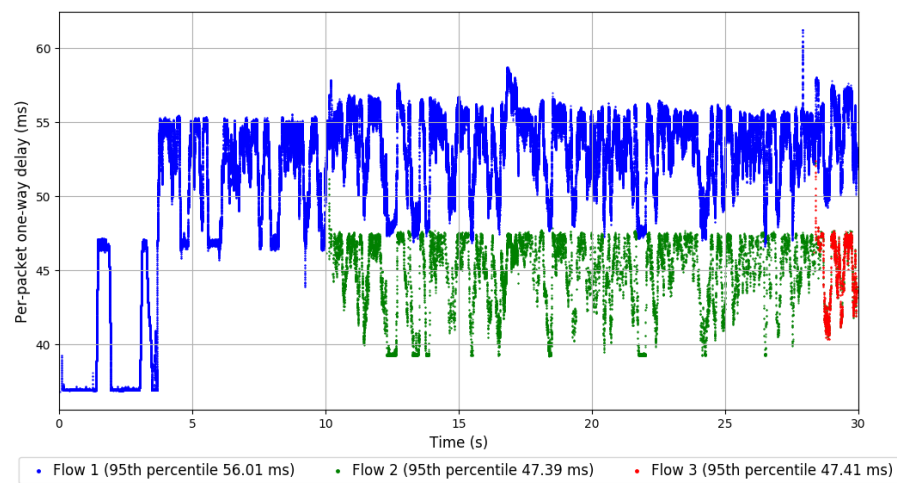
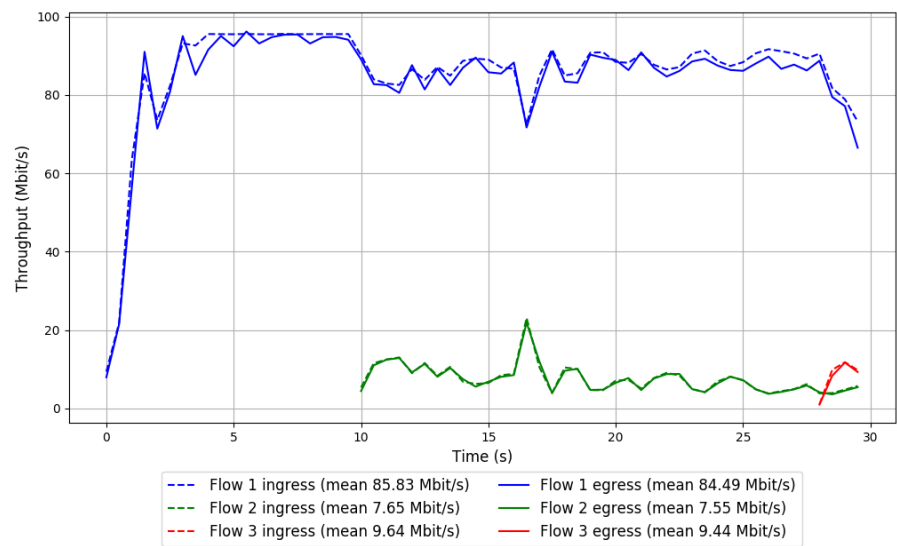
-- Flow 3:

Average throughput: 9.44 Mbit/s

95th percentile per-packet one-way delay: 47.413 ms

Loss rate: 6.55%

Run 10: Report of Copa — Data Link

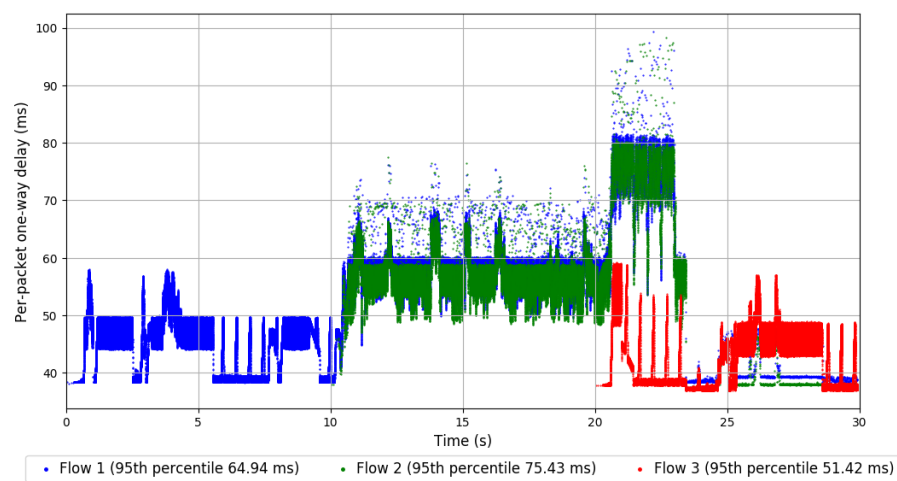
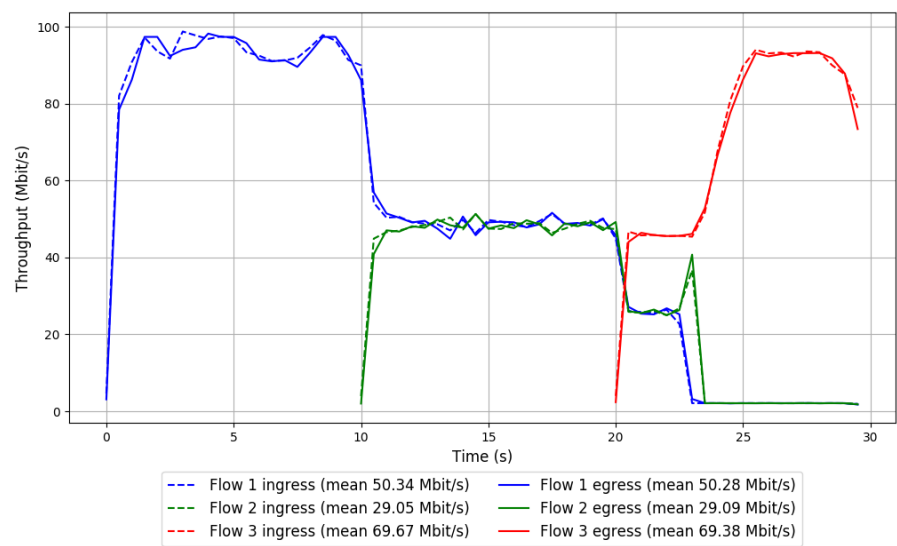


Run 1: Statistics of FillP

Start at: 2018-04-24 16:58:46
End at: 2018-04-24 16:59:16
Local clock offset: 0.848 ms
Remote clock offset: -0.342 ms

Below is generated by plot.py at 2018-04-25 01:34:46
Datalink statistics
-- Total of 3 flows:
Average throughput: 92.54 Mbit/s
95th percentile per-packet one-way delay: 65.183 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 50.28 Mbit/s
95th percentile per-packet one-way delay: 64.945 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 29.09 Mbit/s
95th percentile per-packet one-way delay: 75.433 ms
Loss rate: 0.19%
-- Flow 3:
Average throughput: 69.38 Mbit/s
95th percentile per-packet one-way delay: 51.420 ms
Loss rate: 1.08%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

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

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

Local clock offset: 1.117 ms

Remote clock offset: -0.89 ms

Below is generated by plot.py at 2018-04-25 01:34:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.03 Mbit/s

95th percentile per-packet one-way delay: 76.984 ms

Loss rate: 0.35%

-- Flow 1:

Average throughput: 63.01 Mbit/s

95th percentile per-packet one-way delay: 58.454 ms

Loss rate: 0.28%

-- Flow 2:

Average throughput: 30.25 Mbit/s

95th percentile per-packet one-way delay: 79.936 ms

Loss rate: 0.15%

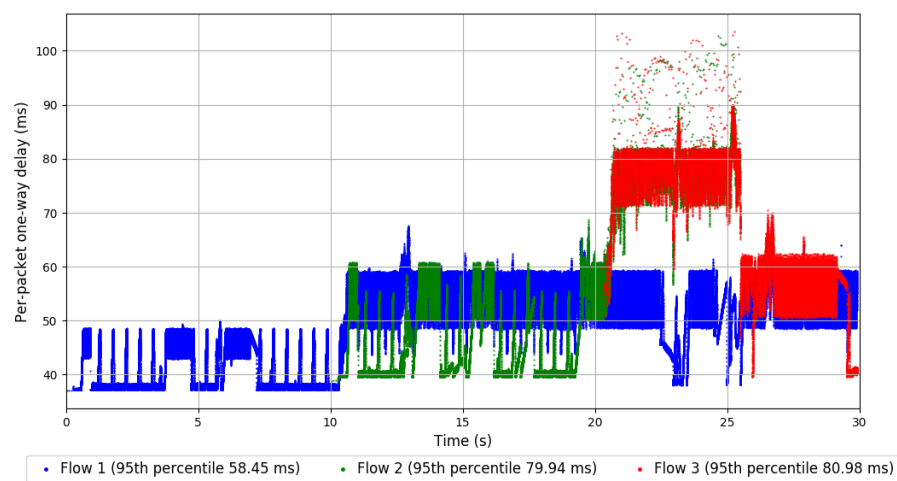
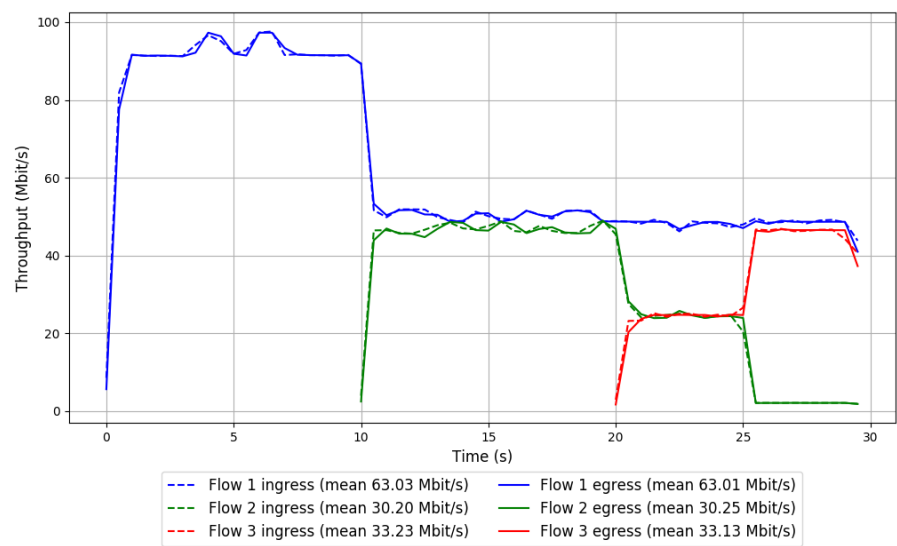
-- Flow 3:

Average throughput: 33.13 Mbit/s

95th percentile per-packet one-way delay: 80.984 ms

Loss rate: 1.11%

Run 2: Report of FillP — Data Link

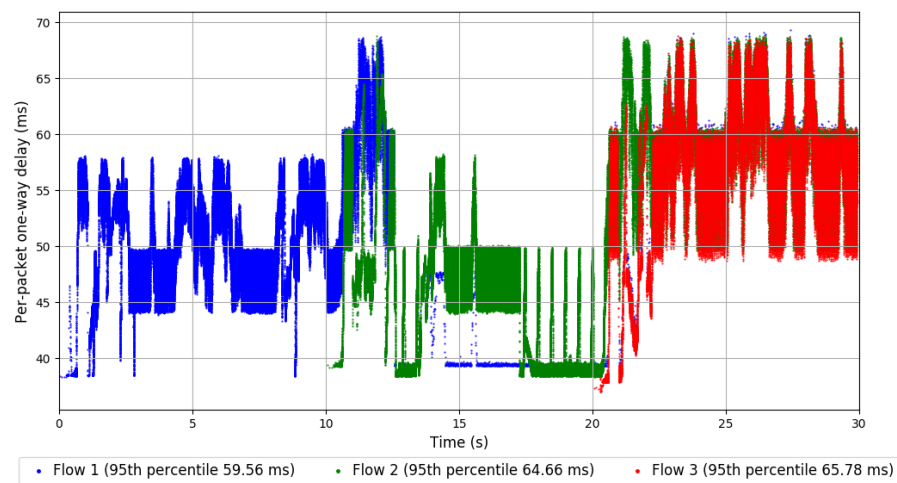
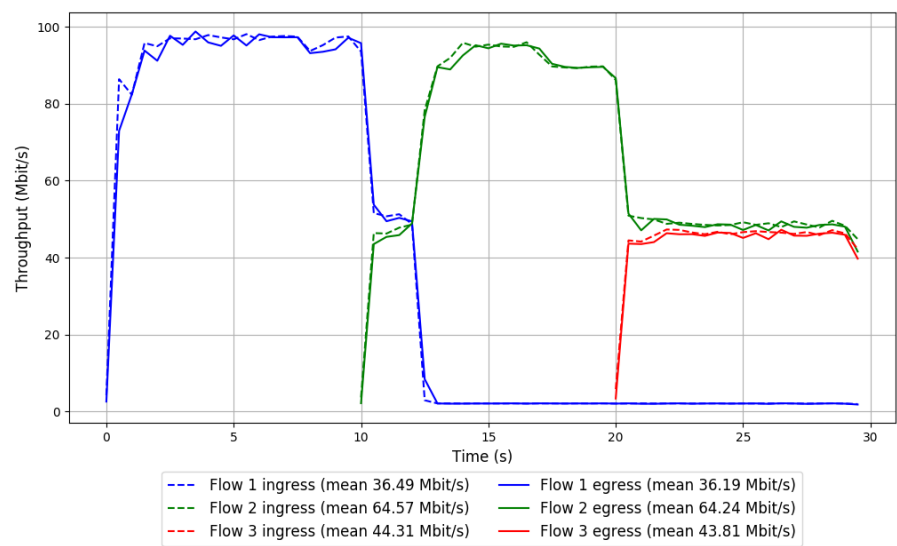


Run 3: Statistics of FillP

Start at: 2018-04-24 17:46:06
End at: 2018-04-24 17:46:36
Local clock offset: 1.147 ms
Remote clock offset: -0.424 ms

Below is generated by plot.py at 2018-04-25 01:34:46
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.36 Mbit/s
95th percentile per-packet one-way delay: 64.135 ms
Loss rate: 1.11%
-- Flow 1:
Average throughput: 36.19 Mbit/s
95th percentile per-packet one-way delay: 59.557 ms
Loss rate: 1.05%
-- Flow 2:
Average throughput: 64.24 Mbit/s
95th percentile per-packet one-way delay: 64.658 ms
Loss rate: 0.92%
-- Flow 3:
Average throughput: 43.81 Mbit/s
95th percentile per-packet one-way delay: 65.781 ms
Loss rate: 1.83%

Run 3: Report of FillP — Data Link

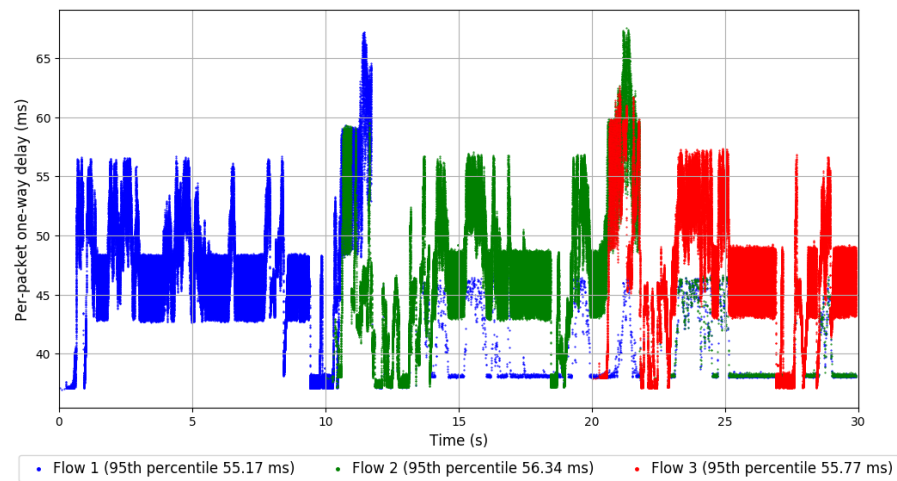
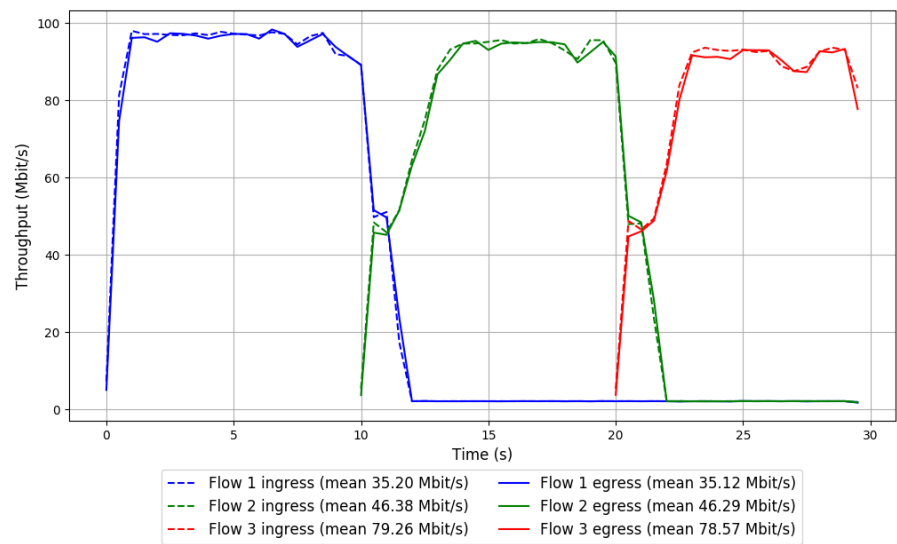


Run 4: Statistics of FillP

Start at: 2018-04-24 18:09:56
End at: 2018-04-24 18:10:26
Local clock offset: 1.496 ms
Remote clock offset: -0.112 ms

Below is generated by plot.py at 2018-04-25 01:34:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 91.83 Mbit/s
95th percentile per-packet one-way delay: 55.748 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 35.12 Mbit/s
95th percentile per-packet one-way delay: 55.170 ms
Loss rate: 0.43%
-- Flow 2:
Average throughput: 46.29 Mbit/s
95th percentile per-packet one-way delay: 56.339 ms
Loss rate: 0.55%
-- Flow 3:
Average throughput: 78.57 Mbit/s
95th percentile per-packet one-way delay: 55.774 ms
Loss rate: 1.58%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-04-24 18:34:17

End at: 2018-04-24 18:34:47

Local clock offset: 0.689 ms

Remote clock offset: 0.482 ms

Below is generated by plot.py at 2018-04-25 01:34:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.52 Mbit/s

95th percentile per-packet one-way delay: 78.394 ms

Loss rate: 0.93%

-- Flow 1:

Average throughput: 56.00 Mbit/s

95th percentile per-packet one-way delay: 78.178 ms

Loss rate: 0.88%

-- Flow 2:

Average throughput: 46.78 Mbit/s

95th percentile per-packet one-way delay: 63.434 ms

Loss rate: 0.88%

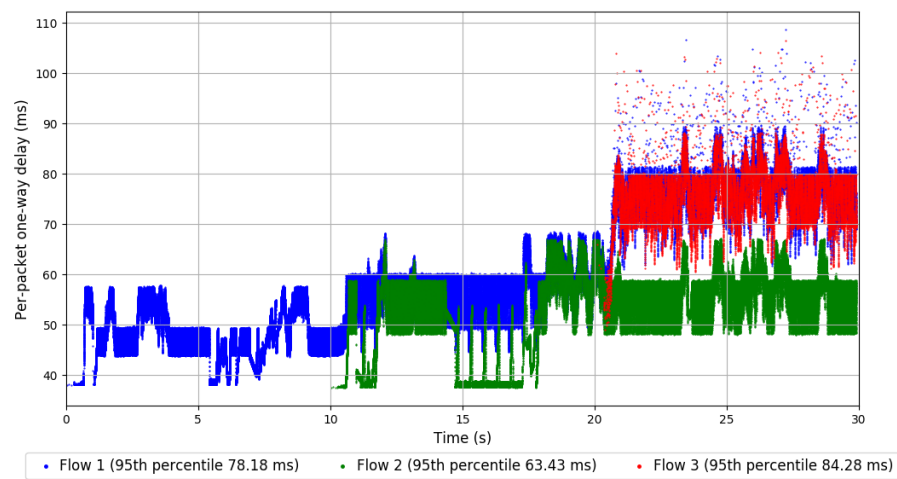
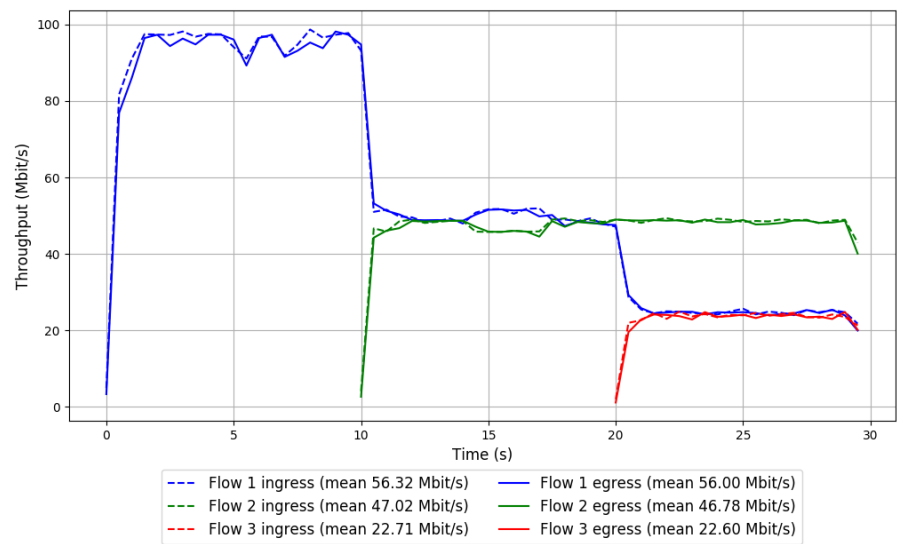
-- Flow 3:

Average throughput: 22.60 Mbit/s

95th percentile per-packet one-way delay: 84.283 ms

Loss rate: 1.50%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-04-24 18:59:04

End at: 2018-04-24 18:59:34

Local clock offset: 0.069 ms

Remote clock offset: 0.485 ms

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.11 Mbit/s

95th percentile per-packet one-way delay: 60.583 ms

Loss rate: 1.42%

-- Flow 1:

Average throughput: 35.86 Mbit/s

95th percentile per-packet one-way delay: 59.482 ms

Loss rate: 1.27%

-- Flow 2:

Average throughput: 46.16 Mbit/s

95th percentile per-packet one-way delay: 62.785 ms

Loss rate: 1.29%

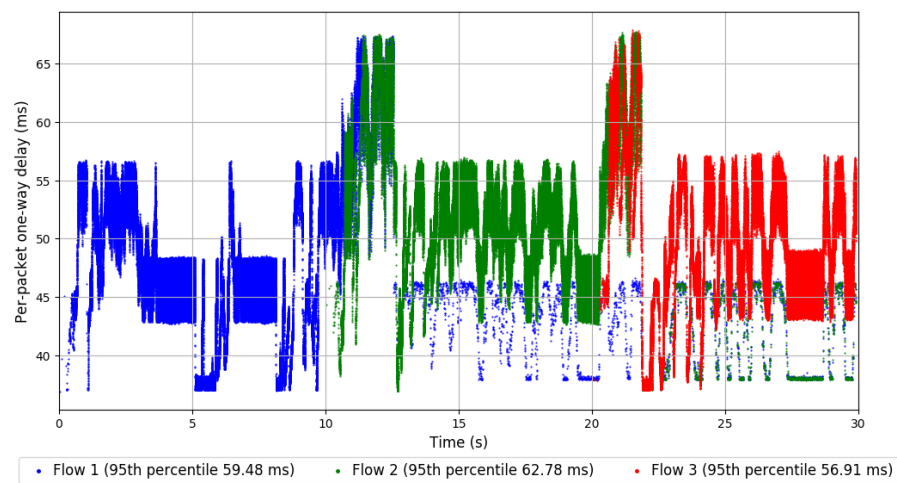
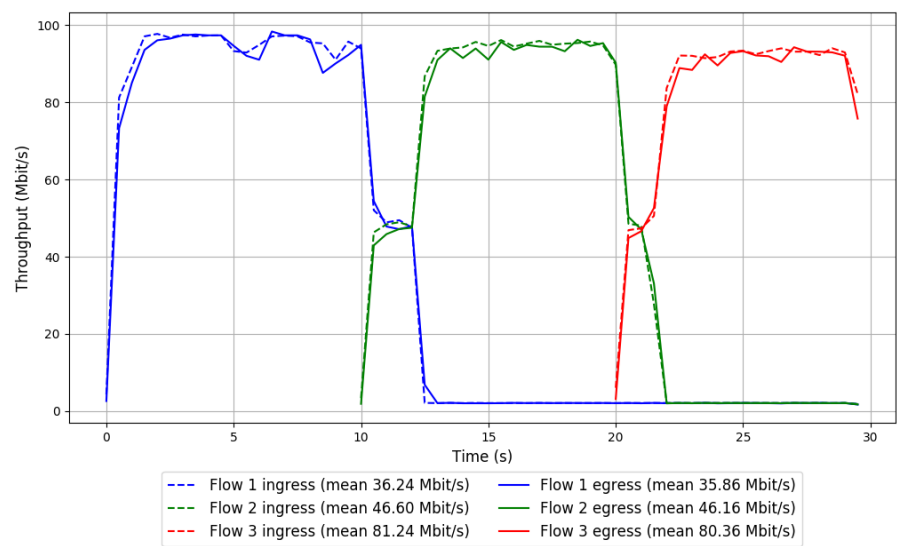
-- Flow 3:

Average throughput: 80.36 Mbit/s

95th percentile per-packet one-way delay: 56.911 ms

Loss rate: 1.75%

Run 6: Report of FillP — Data Link

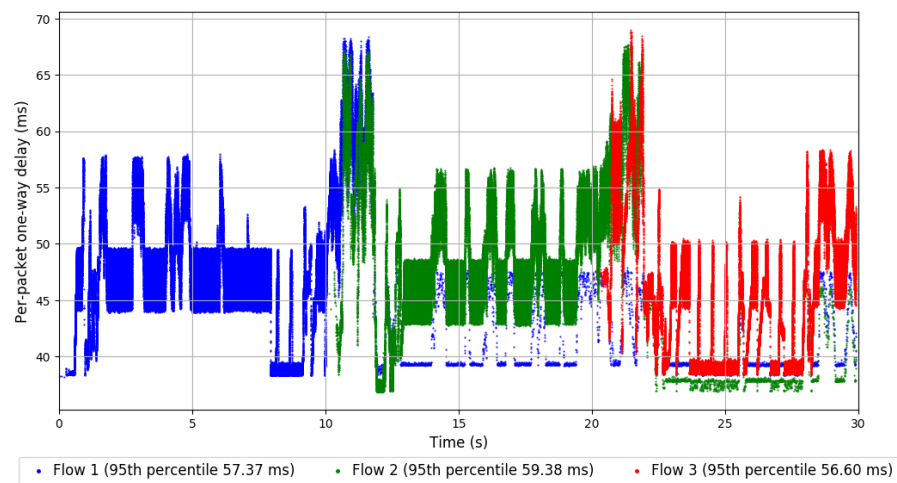
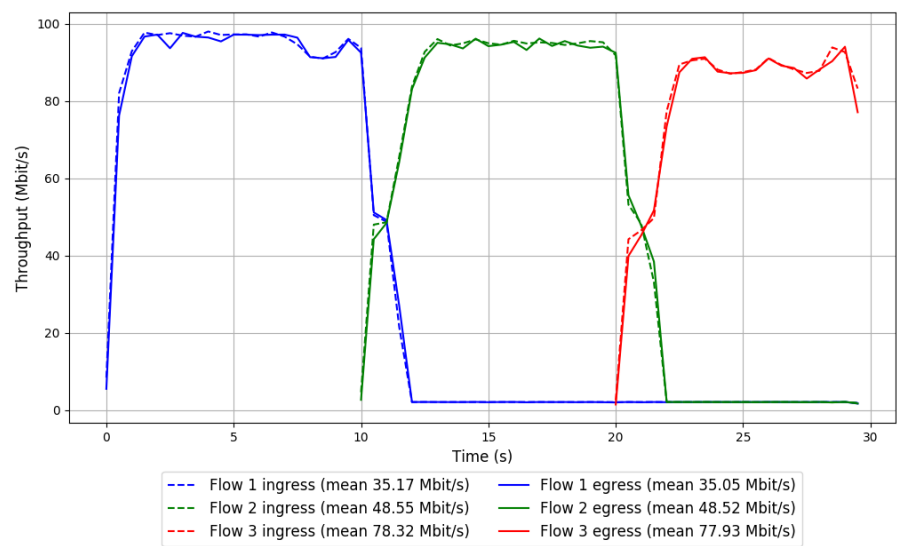


Run 7: Statistics of FillP

Start at: 2018-04-24 19:23:23
End at: 2018-04-24 19:23:53
Local clock offset: 0.511 ms
Remote clock offset: -0.755 ms

Below is generated by plot.py at 2018-04-25 01:35:15
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.00 Mbit/s
95th percentile per-packet one-way delay: 57.714 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 35.05 Mbit/s
95th percentile per-packet one-way delay: 57.370 ms
Loss rate: 0.57%
-- Flow 2:
Average throughput: 48.52 Mbit/s
95th percentile per-packet one-way delay: 59.384 ms
Loss rate: 0.44%
-- Flow 3:
Average throughput: 77.93 Mbit/s
95th percentile per-packet one-way delay: 56.602 ms
Loss rate: 1.29%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-04-24 19:47:14

End at: 2018-04-24 19:47:44

Local clock offset: 1.394 ms

Remote clock offset: 0.102 ms

Below is generated by plot.py at 2018-04-25 01:35:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.34 Mbit/s

95th percentile per-packet one-way delay: 63.059 ms

Loss rate: 0.53%

-- Flow 1:

Average throughput: 49.88 Mbit/s

95th percentile per-packet one-way delay: 60.891 ms

Loss rate: 0.17%

-- Flow 2:

Average throughput: 45.83 Mbit/s

95th percentile per-packet one-way delay: 63.263 ms

Loss rate: 0.75%

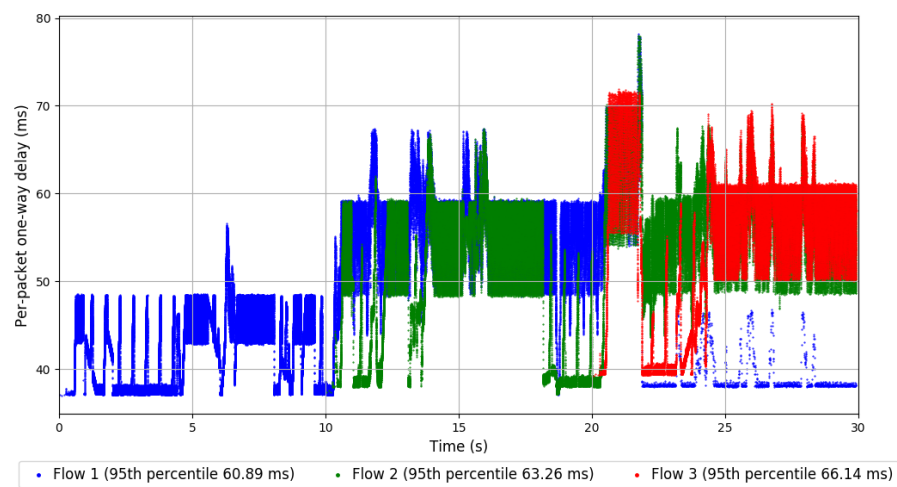
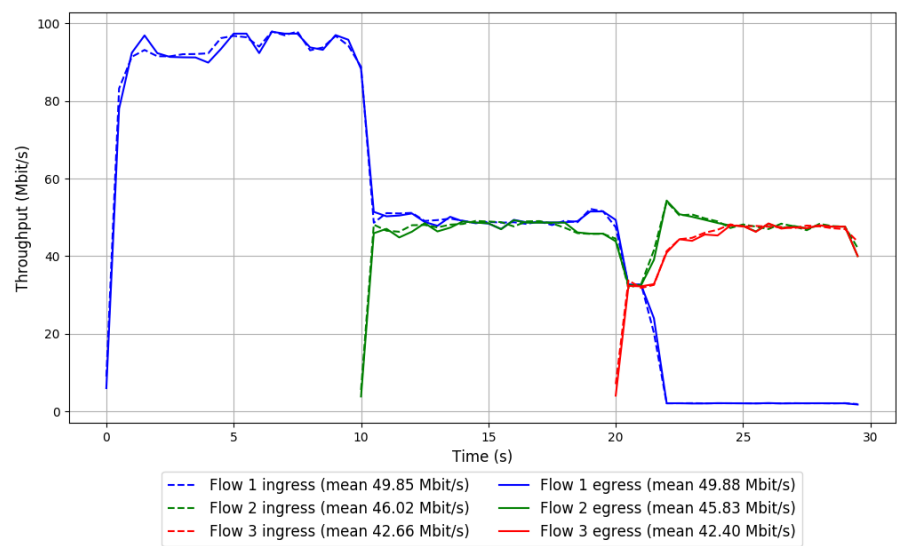
-- Flow 3:

Average throughput: 42.40 Mbit/s

95th percentile per-packet one-way delay: 66.135 ms

Loss rate: 1.29%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-04-24 20:10:47

End at: 2018-04-24 20:11:17

Local clock offset: 1.232 ms

Remote clock offset: 0.72 ms

Below is generated by plot.py at 2018-04-25 01:36:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.81 Mbit/s

95th percentile per-packet one-way delay: 57.890 ms

Loss rate: 0.82%

-- Flow 1:

Average throughput: 36.37 Mbit/s

95th percentile per-packet one-way delay: 56.357 ms

Loss rate: 0.60%

-- Flow 2:

Average throughput: 46.30 Mbit/s

95th percentile per-packet one-way delay: 59.789 ms

Loss rate: 0.68%

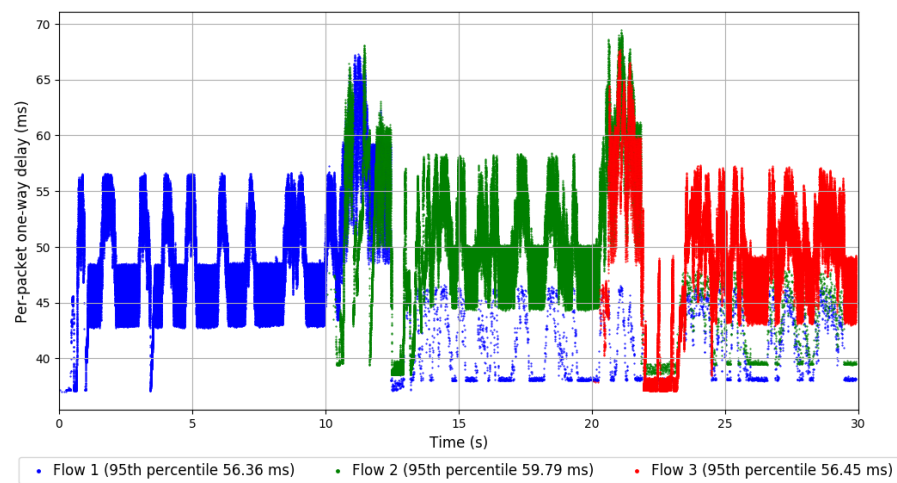
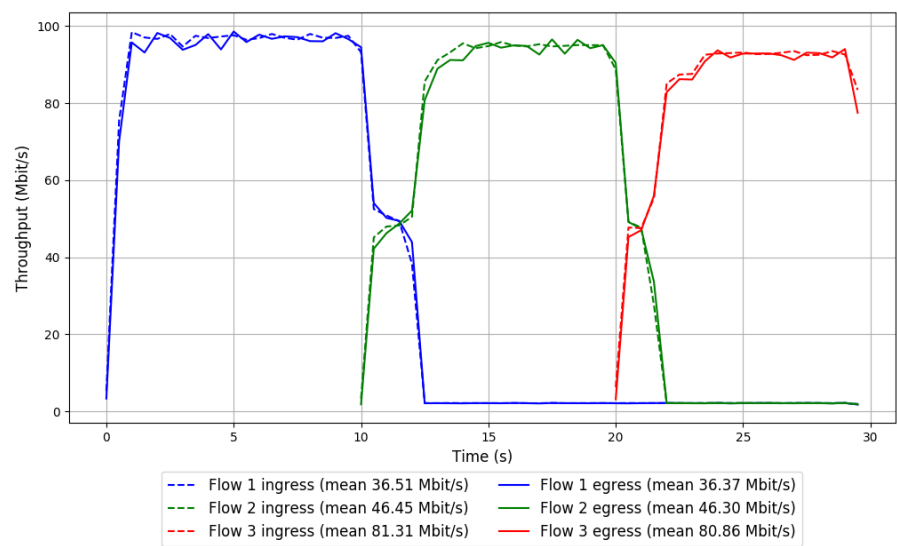
-- Flow 3:

Average throughput: 80.86 Mbit/s

95th percentile per-packet one-way delay: 56.453 ms

Loss rate: 1.27%

Run 9: Report of FillP — Data Link

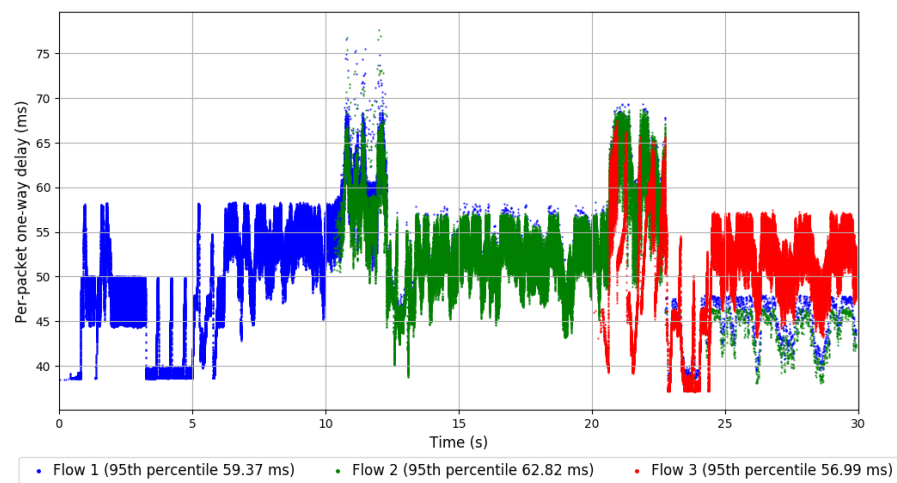
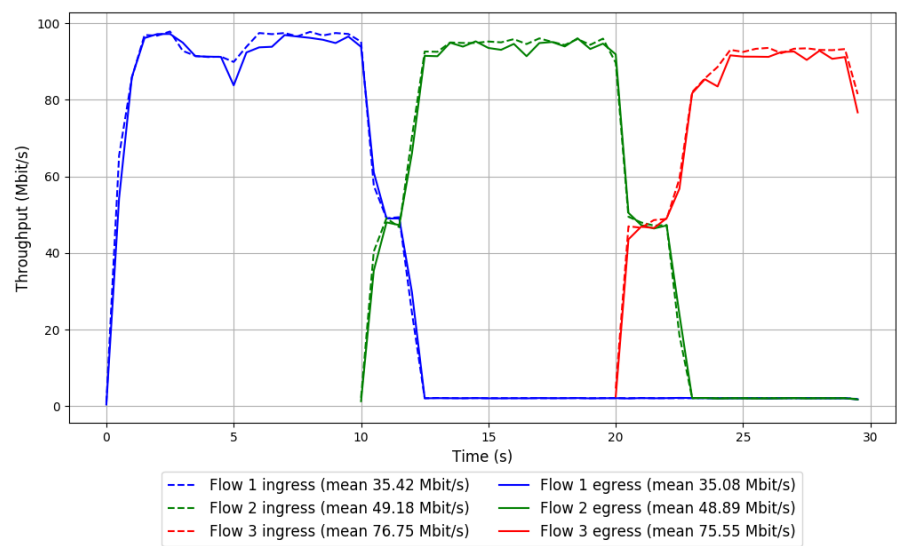


```
Run 10: Statistics of FillP

Start at: 2018-04-24 20:35:20
End at: 2018-04-24 20:35:50
Local clock offset: 1.195 ms
Remote clock offset: 0.397 ms

# Below is generated by plot.py at 2018-04-25 01:36:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.47 Mbit/s
95th percentile per-packet one-way delay: 60.431 ms
Loss rate: 1.42%
-- Flow 1:
Average throughput: 35.08 Mbit/s
95th percentile per-packet one-way delay: 59.373 ms
Loss rate: 1.19%
-- Flow 2:
Average throughput: 48.89 Mbit/s
95th percentile per-packet one-way delay: 62.817 ms
Loss rate: 0.97%
-- Flow 3:
Average throughput: 75.55 Mbit/s
95th percentile per-packet one-way delay: 56.986 ms
Loss rate: 2.31%
```

Run 10: Report of FillP — Data Link

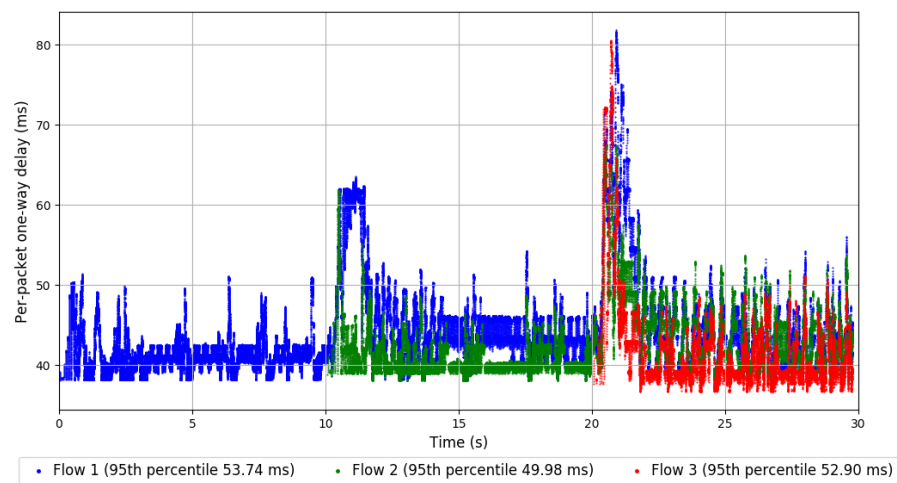
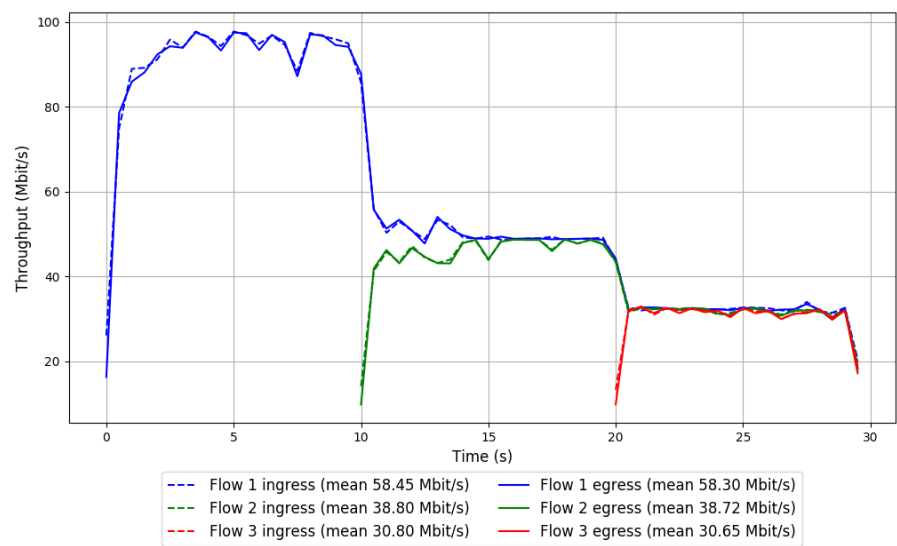


```
Run 1: Statistics of Indigo-1-32

Start at: 2018-04-24 17:01:32
End at: 2018-04-24 17:02:02
Local clock offset: 0.962 ms
Remote clock offset: 0.047 ms

# Below is generated by plot.py at 2018-04-25 01:36:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.95 Mbit/s
95th percentile per-packet one-way delay: 51.773 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 58.30 Mbit/s
95th percentile per-packet one-way delay: 53.737 ms
Loss rate: 0.49%
-- Flow 2:
Average throughput: 38.72 Mbit/s
95th percentile per-packet one-way delay: 49.983 ms
Loss rate: 0.53%
-- Flow 3:
Average throughput: 30.65 Mbit/s
95th percentile per-packet one-way delay: 52.897 ms
Loss rate: 1.13%
```

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

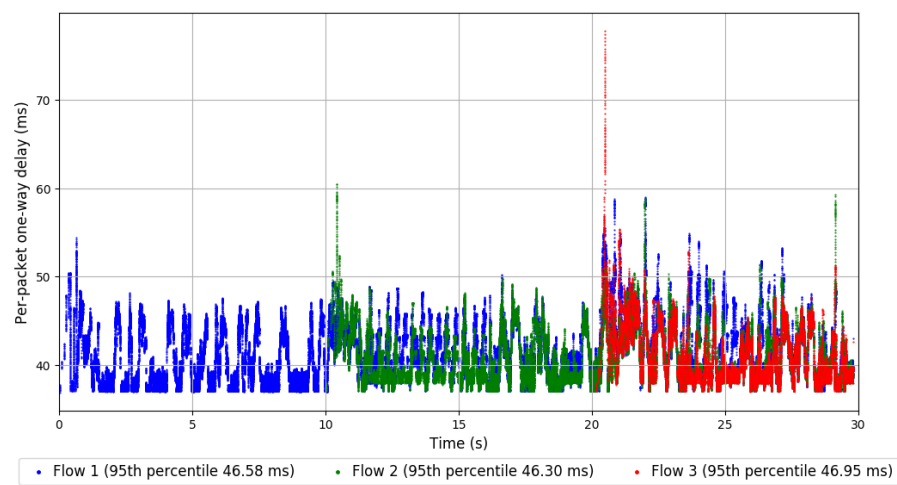
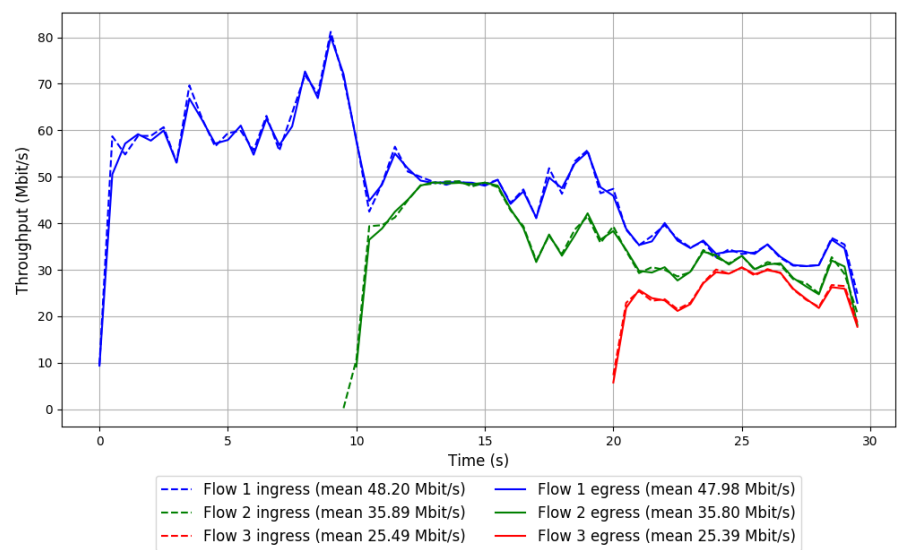


Run 2: Statistics of Indigo-1-32

Start at: 2018-04-24 17:25:02
End at: 2018-04-24 17:25:32
Local clock offset: 1.079 ms
Remote clock offset: -0.643 ms

Below is generated by plot.py at 2018-04-25 01:36:19
Datalink statistics
-- Total of 3 flows:
Average throughput: 79.99 Mbit/s
95th percentile per-packet one-way delay: 46.533 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 47.98 Mbit/s
95th percentile per-packet one-way delay: 46.582 ms
Loss rate: 0.65%
-- Flow 2:
Average throughput: 35.80 Mbit/s
95th percentile per-packet one-way delay: 46.296 ms
Loss rate: 0.58%
-- Flow 3:
Average throughput: 25.39 Mbit/s
95th percentile per-packet one-way delay: 46.955 ms
Loss rate: 1.05%

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



Run 3: Statistics of Indigo-1-32

Start at: 2018-04-24 17:48:58

End at: 2018-04-24 17:49:28

Local clock offset: 1.241 ms

Remote clock offset: -0.49 ms

Below is generated by plot.py at 2018-04-25 01:36:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 78.22 Mbit/s

95th percentile per-packet one-way delay: 48.984 ms

Loss rate: 0.91%

-- Flow 1:

Average throughput: 49.26 Mbit/s

95th percentile per-packet one-way delay: 46.992 ms

Loss rate: 0.83%

-- Flow 2:

Average throughput: 33.70 Mbit/s

95th percentile per-packet one-way delay: 51.932 ms

Loss rate: 0.91%

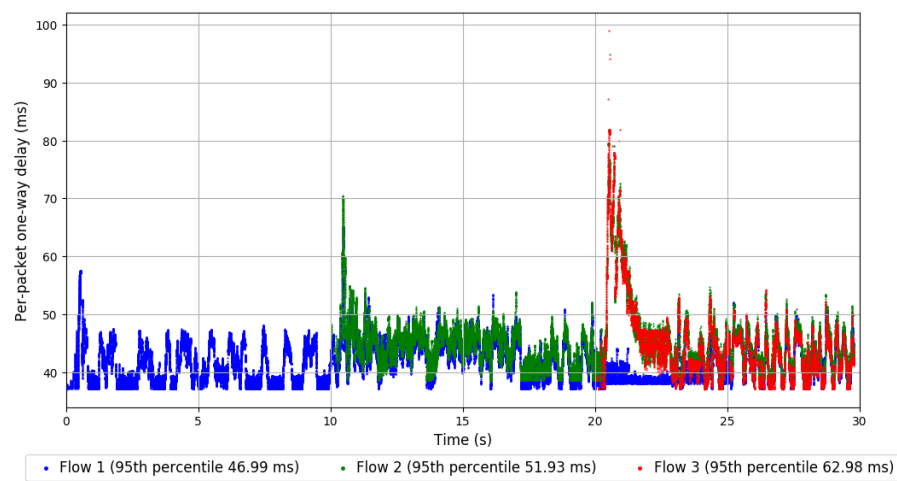
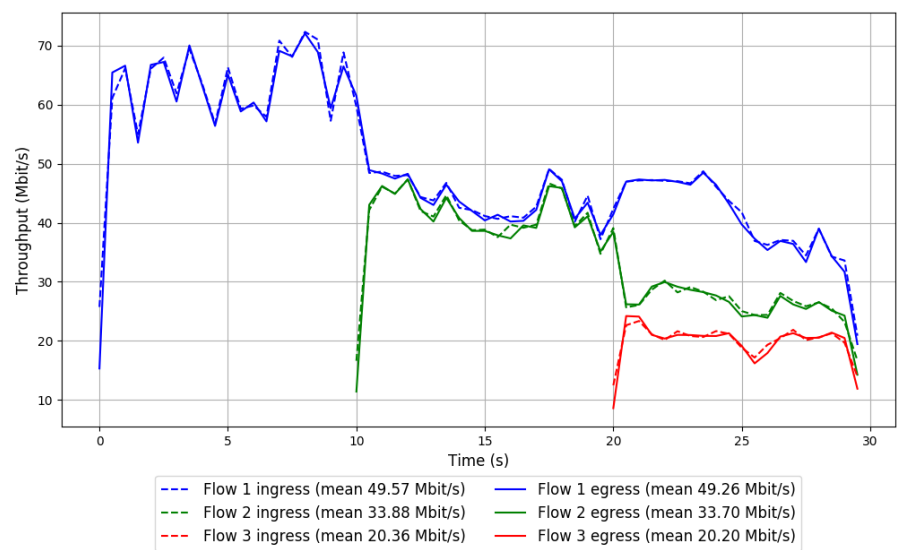
-- Flow 3:

Average throughput: 20.20 Mbit/s

95th percentile per-packet one-way delay: 62.982 ms

Loss rate: 1.43%

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

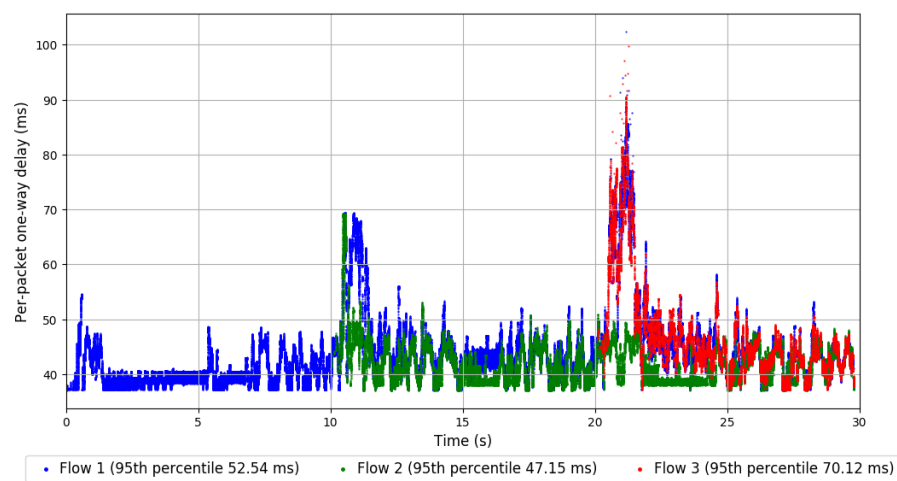
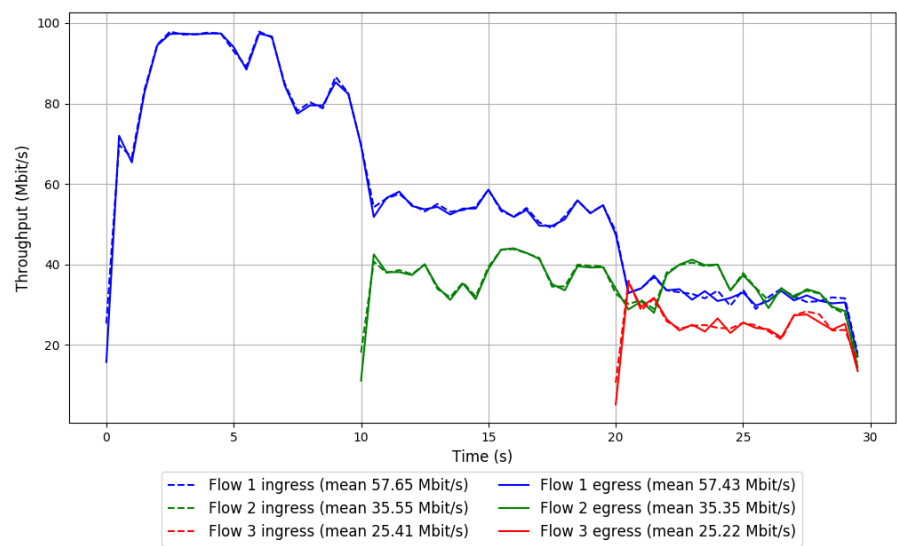


Run 4: Statistics of Indigo-1-32

Start at: 2018-04-24 18:12:44
End at: 2018-04-24 18:13:14
Local clock offset: 1.378 ms
Remote clock offset: -0.165 ms

Below is generated by plot.py at 2018-04-25 01:36:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 89.07 Mbit/s
95th percentile per-packet one-way delay: 52.416 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 57.43 Mbit/s
95th percentile per-packet one-way delay: 52.536 ms
Loss rate: 0.60%
-- Flow 2:
Average throughput: 35.35 Mbit/s
95th percentile per-packet one-way delay: 47.151 ms
Loss rate: 0.91%
-- Flow 3:
Average throughput: 25.22 Mbit/s
95th percentile per-packet one-way delay: 70.118 ms
Loss rate: 1.56%

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



Run 5: Statistics of Indigo-1-32

Start at: 2018-04-24 18:37:18

End at: 2018-04-24 18:37:48

Local clock offset: 0.54 ms

Remote clock offset: 0.241 ms

Below is generated by plot.py at 2018-04-25 01:36:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.86 Mbit/s

95th percentile per-packet one-way delay: 56.746 ms

Loss rate: 0.88%

-- Flow 1:

Average throughput: 54.16 Mbit/s

95th percentile per-packet one-way delay: 58.650 ms

Loss rate: 0.80%

-- Flow 2:

Average throughput: 43.33 Mbit/s

95th percentile per-packet one-way delay: 50.217 ms

Loss rate: 0.92%

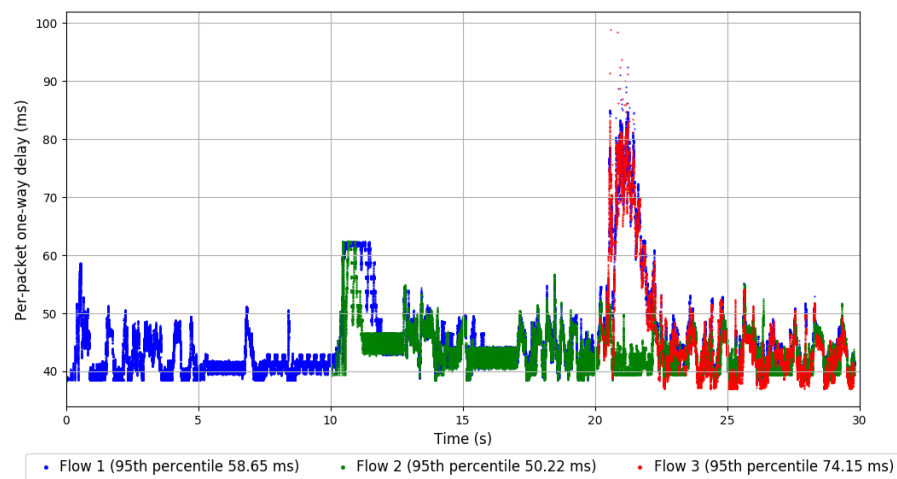
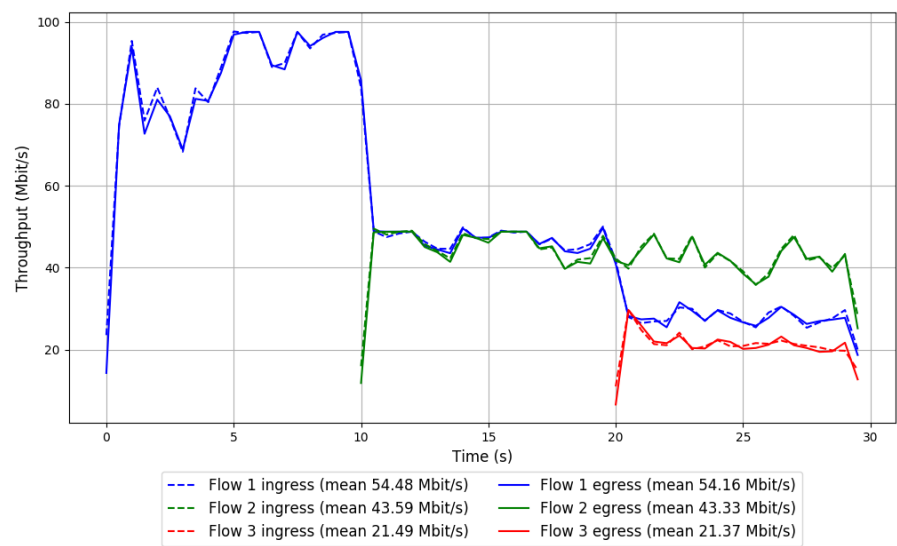
-- Flow 3:

Average throughput: 21.37 Mbit/s

95th percentile per-packet one-way delay: 74.153 ms

Loss rate: 1.32%

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



Run 6: Statistics of Indigo-1-32

Start at: 2018-04-24 19:02:16

End at: 2018-04-24 19:02:46

Local clock offset: 0.111 ms

Remote clock offset: 0.492 ms

Below is generated by plot.py at 2018-04-25 01:36:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 83.87 Mbit/s

95th percentile per-packet one-way delay: 47.422 ms

Loss rate: 0.85%

-- Flow 1:

Average throughput: 58.98 Mbit/s

95th percentile per-packet one-way delay: 46.922 ms

Loss rate: 0.77%

-- Flow 2:

Average throughput: 24.22 Mbit/s

95th percentile per-packet one-way delay: 47.548 ms

Loss rate: 0.84%

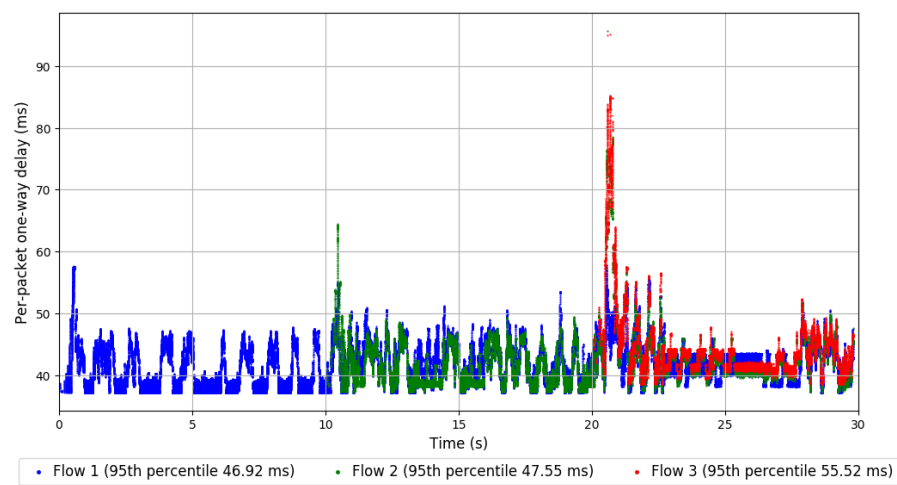
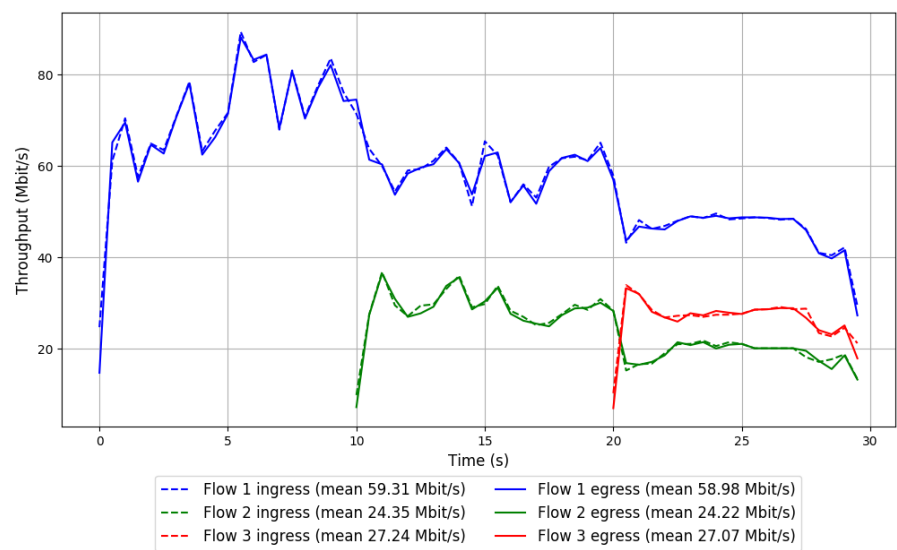
-- Flow 3:

Average throughput: 27.07 Mbit/s

95th percentile per-packet one-way delay: 55.517 ms

Loss rate: 1.38%

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

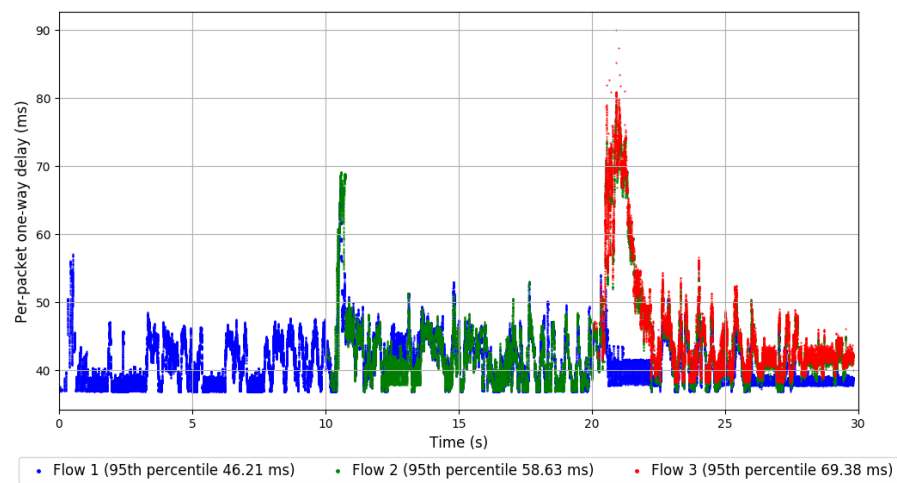
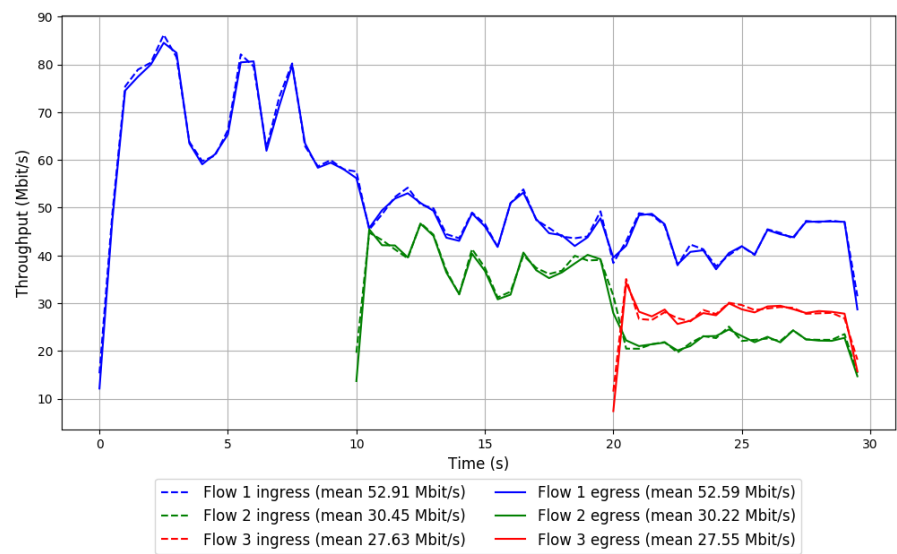


Run 7: Statistics of Indigo-1-32

Start at: 2018-04-24 19:26:16
End at: 2018-04-24 19:26:46
Local clock offset: 0.734 ms
Remote clock offset: -0.765 ms

Below is generated by plot.py at 2018-04-25 01:37:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 81.63 Mbit/s
95th percentile per-packet one-way delay: 49.275 ms
Loss rate: 0.92%
-- Flow 1:
Average throughput: 52.59 Mbit/s
95th percentile per-packet one-way delay: 46.214 ms
Loss rate: 0.83%
-- Flow 2:
Average throughput: 30.22 Mbit/s
95th percentile per-packet one-way delay: 58.634 ms
Loss rate: 1.10%
-- Flow 3:
Average throughput: 27.55 Mbit/s
95th percentile per-packet one-way delay: 69.375 ms
Loss rate: 1.06%

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



Run 8: Statistics of Indigo-1-32

Start at: 2018-04-24 19:50:06

End at: 2018-04-24 19:50:36

Local clock offset: 1.325 ms

Remote clock offset: 0.173 ms

Below is generated by plot.py at 2018-04-25 01:37:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.43 Mbit/s

95th percentile per-packet one-way delay: 51.568 ms

Loss rate: 0.60%

-- Flow 1:

Average throughput: 56.39 Mbit/s

95th percentile per-packet one-way delay: 51.262 ms

Loss rate: 0.50%

-- Flow 2:

Average throughput: 26.76 Mbit/s

95th percentile per-packet one-way delay: 58.905 ms

Loss rate: 0.51%

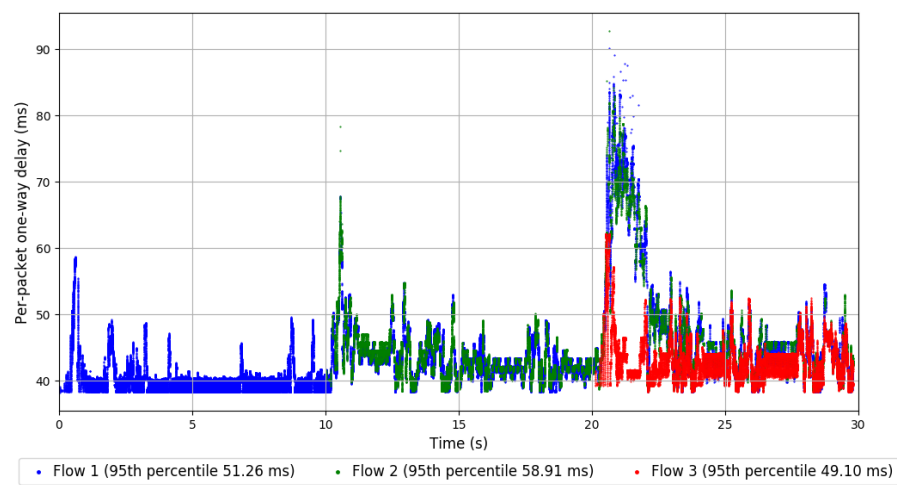
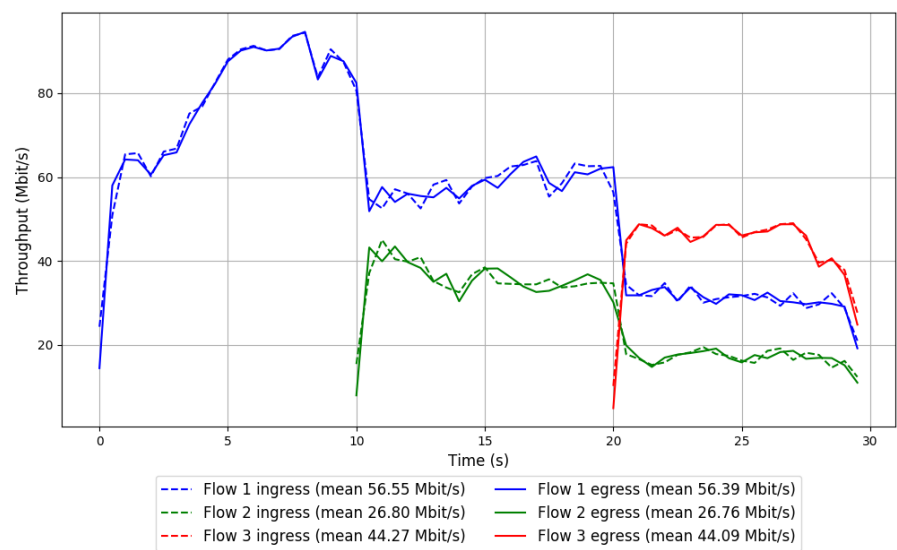
-- Flow 3:

Average throughput: 44.09 Mbit/s

95th percentile per-packet one-way delay: 49.103 ms

Loss rate: 1.11%

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



Run 9: Statistics of Indigo-1-32

Start at: 2018-04-24 20:13:47

End at: 2018-04-24 20:14:17

Local clock offset: 1.14 ms

Remote clock offset: 0.695 ms

Below is generated by plot.py at 2018-04-25 01:37:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.77 Mbit/s

95th percentile per-packet one-way delay: 48.445 ms

Loss rate: 0.75%

-- Flow 1:

Average throughput: 60.42 Mbit/s

95th percentile per-packet one-way delay: 48.249 ms

Loss rate: 0.74%

-- Flow 2:

Average throughput: 27.66 Mbit/s

95th percentile per-packet one-way delay: 47.603 ms

Loss rate: 0.65%

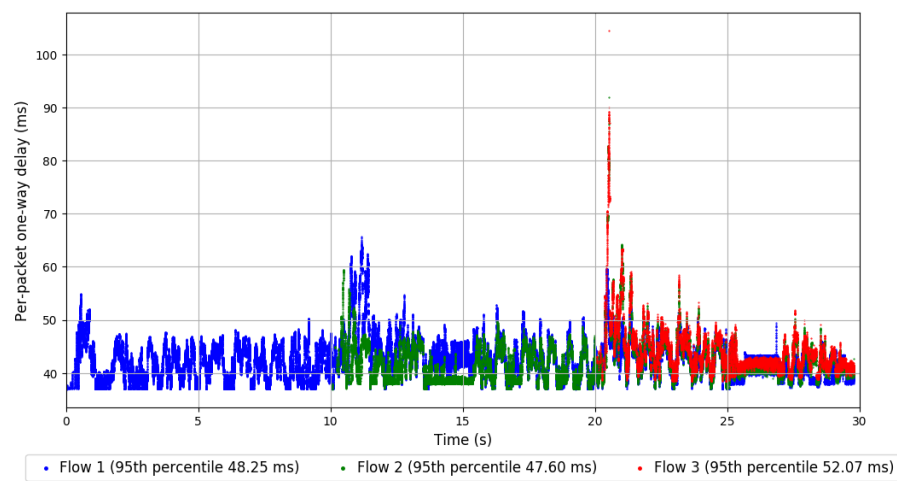
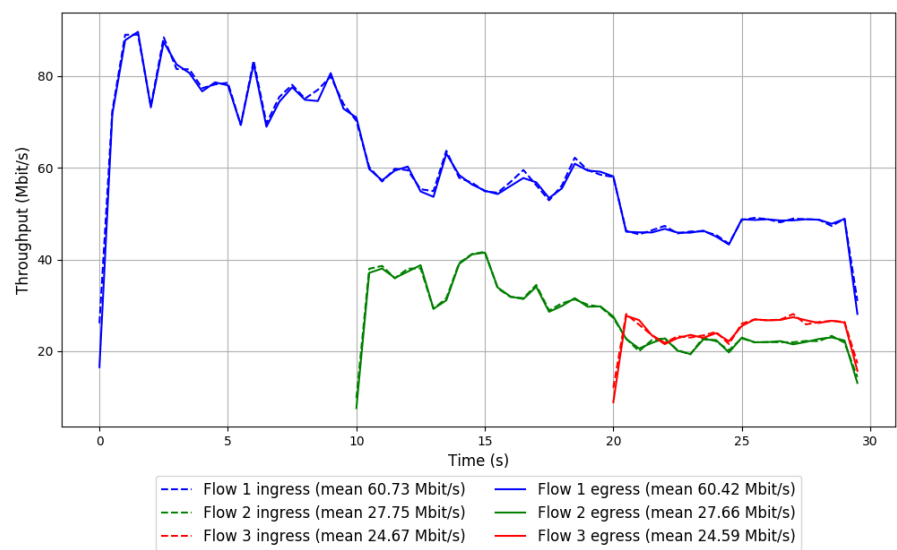
-- Flow 3:

Average throughput: 24.59 Mbit/s

95th percentile per-packet one-way delay: 52.073 ms

Loss rate: 1.07%

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



Run 10: Statistics of Indigo-1-32

Start at: 2018-04-24 20:38:08

End at: 2018-04-24 20:38:38

Local clock offset: 1.207 ms

Remote clock offset: 0.442 ms

Below is generated by plot.py at 2018-04-25 01:37:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 74.44 Mbit/s

95th percentile per-packet one-way delay: 48.454 ms

Loss rate: 0.83%

-- Flow 1:

Average throughput: 45.39 Mbit/s

95th percentile per-packet one-way delay: 48.224 ms

Loss rate: 0.73%

-- Flow 2:

Average throughput: 34.22 Mbit/s

95th percentile per-packet one-way delay: 49.134 ms

Loss rate: 0.93%

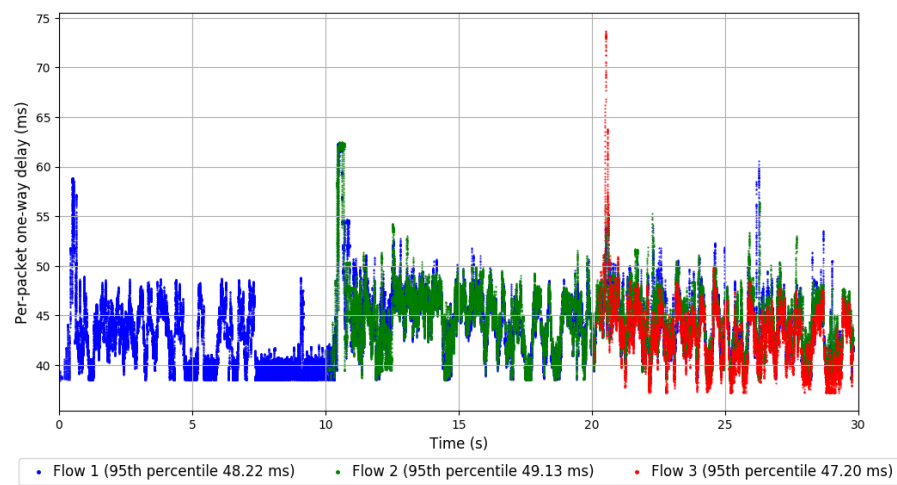
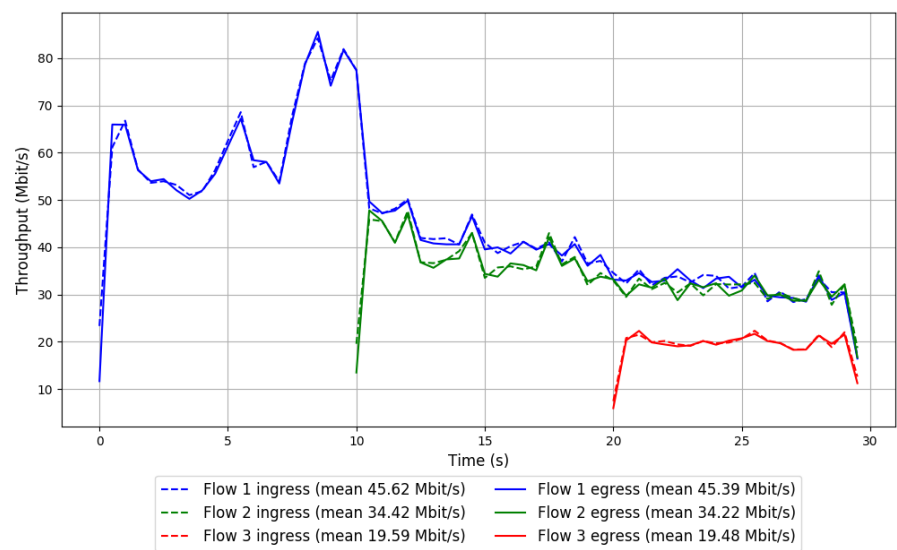
-- Flow 3:

Average throughput: 19.48 Mbit/s

95th percentile per-packet one-way delay: 47.198 ms

Loss rate: 1.14%

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

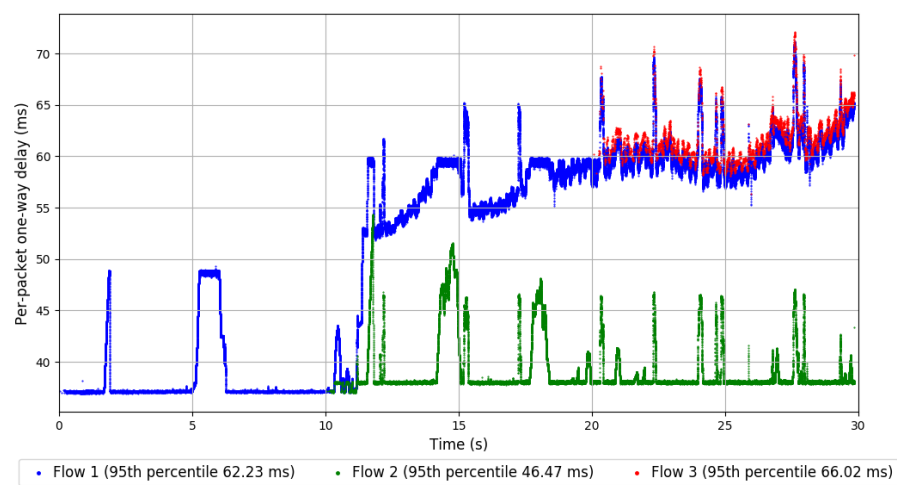
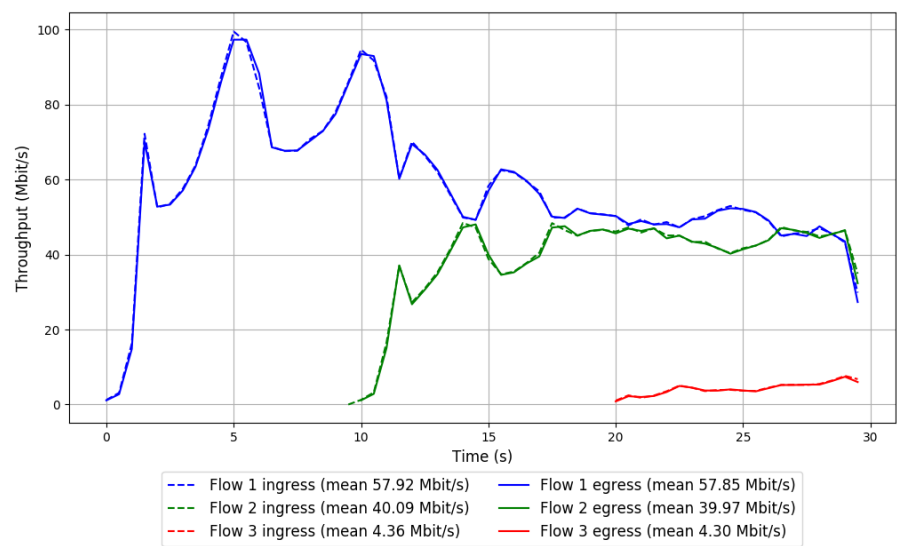


Run 1: Statistics of PCC-Vivace

Start at: 2018-04-24 17:15:10
End at: 2018-04-24 17:15:40
Local clock offset: 1.036 ms
Remote clock offset: -0.755 ms

Below is generated by plot.py at 2018-04-25 01:37:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 85.82 Mbit/s
95th percentile per-packet one-way delay: 61.848 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 57.85 Mbit/s
95th percentile per-packet one-way delay: 62.227 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 39.97 Mbit/s
95th percentile per-packet one-way delay: 46.469 ms
Loss rate: 0.61%
-- Flow 3:
Average throughput: 4.30 Mbit/s
95th percentile per-packet one-way delay: 66.022 ms
Loss rate: 2.33%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2018-04-24 17:38:42

End at: 2018-04-24 17:39:12

Local clock offset: 1.229 ms

Remote clock offset: -0.43 ms

Below is generated by plot.py at 2018-04-25 01:37:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 82.79 Mbit/s

95th percentile per-packet one-way delay: 47.813 ms

Loss rate: 0.75%

-- Flow 1:

Average throughput: 72.52 Mbit/s

95th percentile per-packet one-way delay: 47.879 ms

Loss rate: 0.66%

-- Flow 2:

Average throughput: 12.24 Mbit/s

95th percentile per-packet one-way delay: 45.609 ms

Loss rate: 1.28%

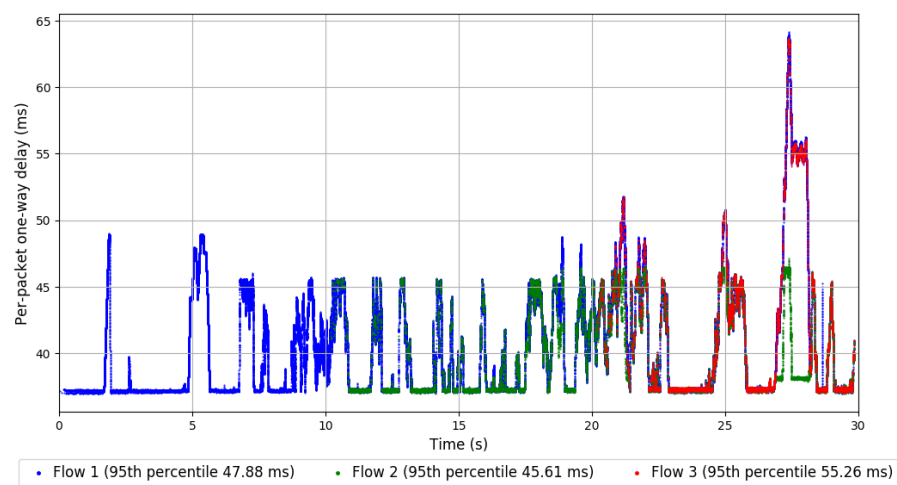
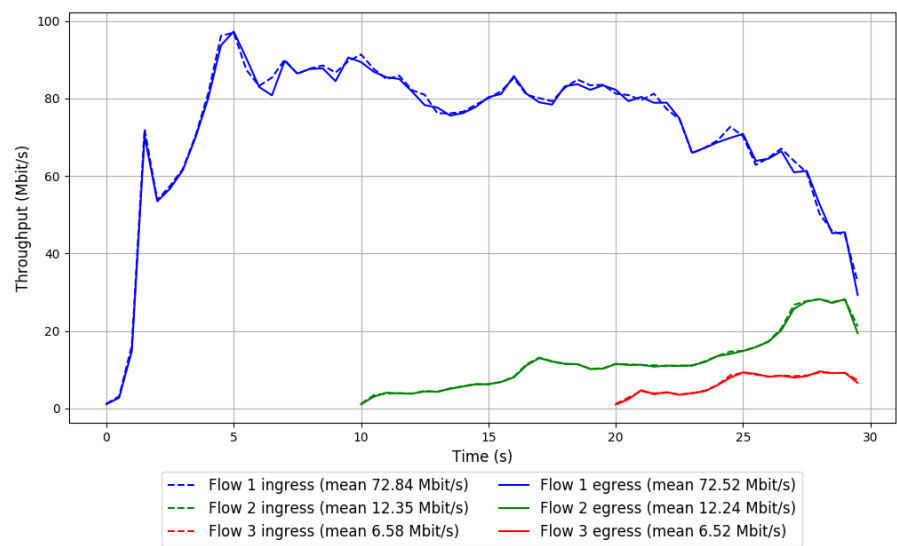
-- Flow 3:

Average throughput: 6.52 Mbit/s

95th percentile per-packet one-way delay: 55.264 ms

Loss rate: 1.64%

Run 2: Report of PCC-Vivace — Data Link

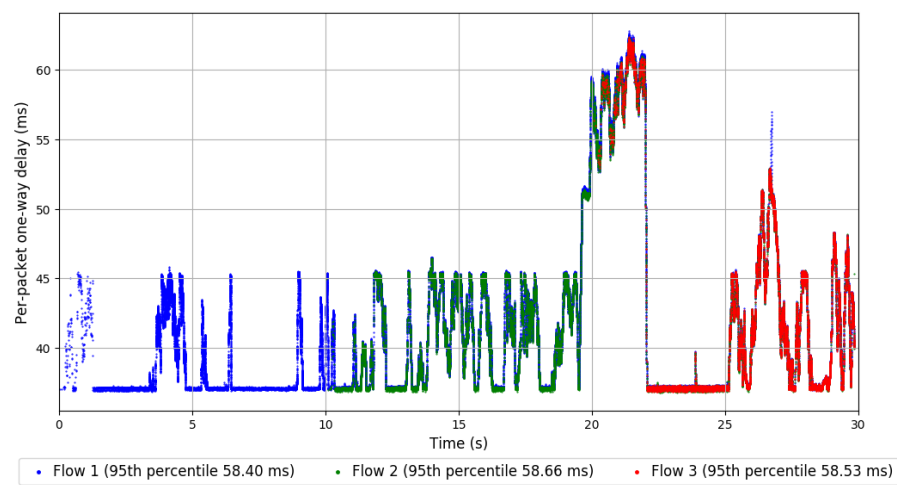
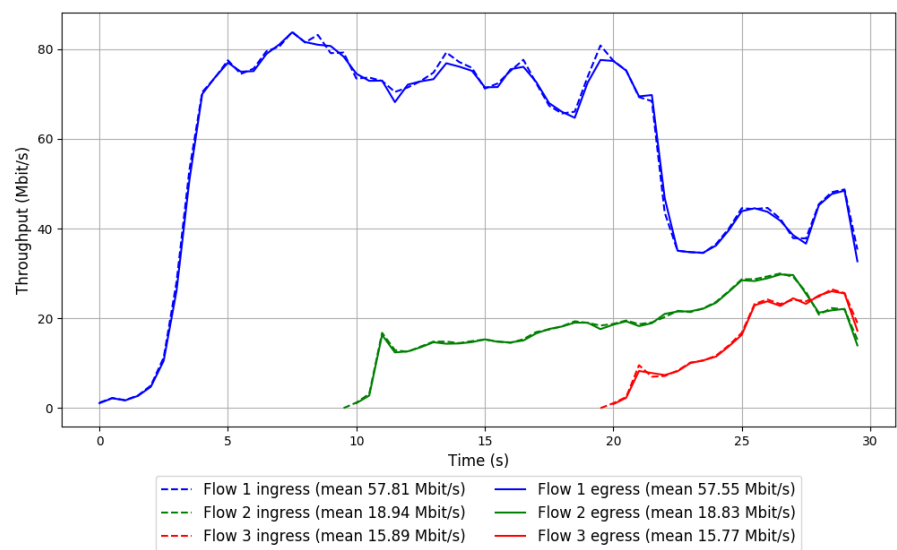


Run 3: Statistics of PCC-Vivace

Start at: 2018-04-24 18:02:41
End at: 2018-04-24 18:03:11
Local clock offset: 1.438 ms
Remote clock offset: -0.324 ms

Below is generated by plot.py at 2018-04-25 01:38:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 75.22 Mbit/s
95th percentile per-packet one-way delay: 58.478 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 57.55 Mbit/s
95th percentile per-packet one-way delay: 58.401 ms
Loss rate: 0.67%
-- Flow 2:
Average throughput: 18.83 Mbit/s
95th percentile per-packet one-way delay: 58.659 ms
Loss rate: 0.95%
-- Flow 3:
Average throughput: 15.77 Mbit/s
95th percentile per-packet one-way delay: 58.531 ms
Loss rate: 1.64%

Run 3: Report of PCC-Vivace — Data Link

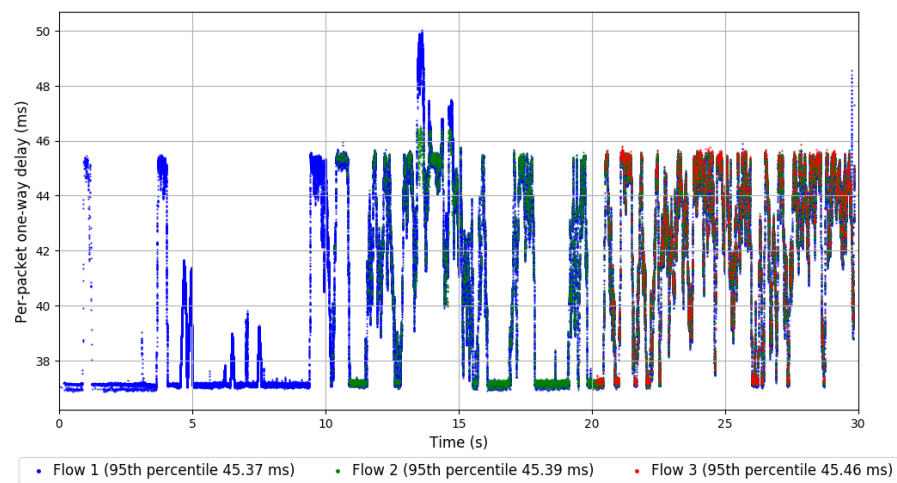
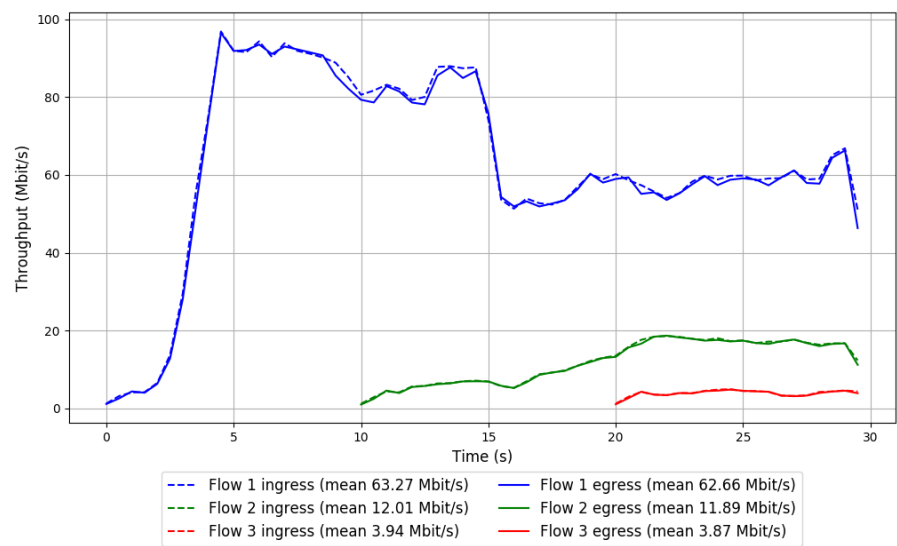


Run 4: Statistics of PCC-Vivace

Start at: 2018-04-24 18:26:47
End at: 2018-04-24 18:27:17
Local clock offset: 0.903 ms
Remote clock offset: -0.261 ms

Below is generated by plot.py at 2018-04-25 01:38:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 71.83 Mbit/s
95th percentile per-packet one-way delay: 45.376 ms
Loss rate: 1.22%
-- Flow 1:
Average throughput: 62.66 Mbit/s
95th percentile per-packet one-way delay: 45.370 ms
Loss rate: 1.18%
-- Flow 2:
Average throughput: 11.89 Mbit/s
95th percentile per-packet one-way delay: 45.394 ms
Loss rate: 1.36%
-- Flow 3:
Average throughput: 3.87 Mbit/s
95th percentile per-packet one-way delay: 45.464 ms
Loss rate: 2.34%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2018-04-24 18:51:06

End at: 2018-04-24 18:51:36

Local clock offset: 0.315 ms

Remote clock offset: 0.867 ms

Below is generated by plot.py at 2018-04-25 01:38:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 75.51 Mbit/s

95th percentile per-packet one-way delay: 64.578 ms

Loss rate: 1.03%

-- Flow 1:

Average throughput: 53.57 Mbit/s

95th percentile per-packet one-way delay: 62.096 ms

Loss rate: 1.01%

-- Flow 2:

Average throughput: 26.91 Mbit/s

95th percentile per-packet one-way delay: 70.259 ms

Loss rate: 0.95%

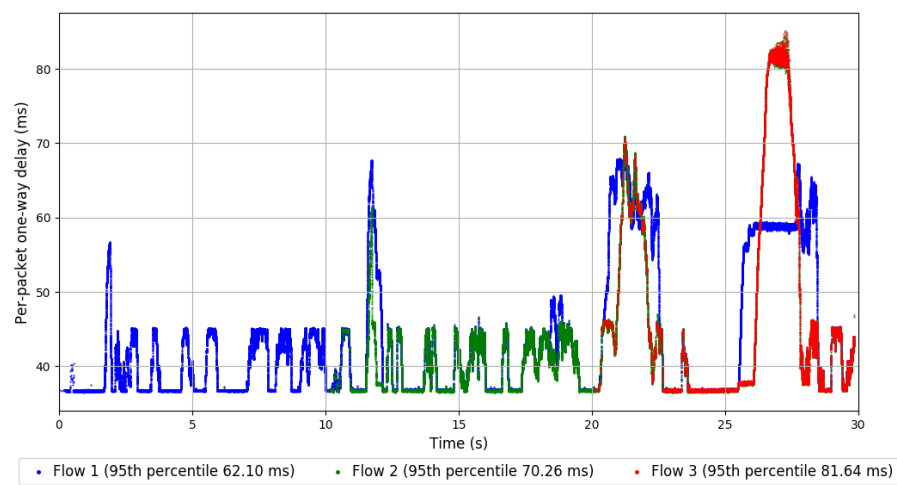
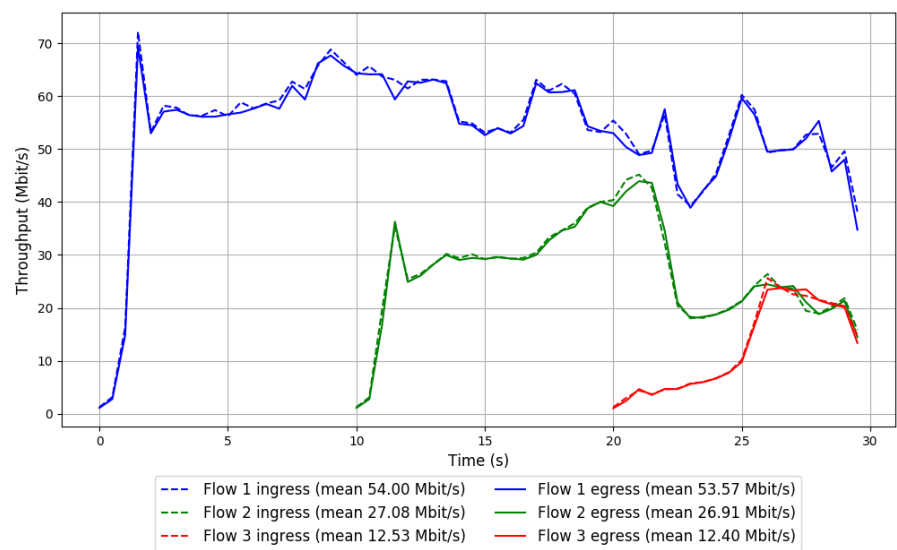
-- Flow 3:

Average throughput: 12.40 Mbit/s

95th percentile per-packet one-way delay: 81.640 ms

Loss rate: 1.70%

Run 5: Report of PCC-Vivace — Data Link

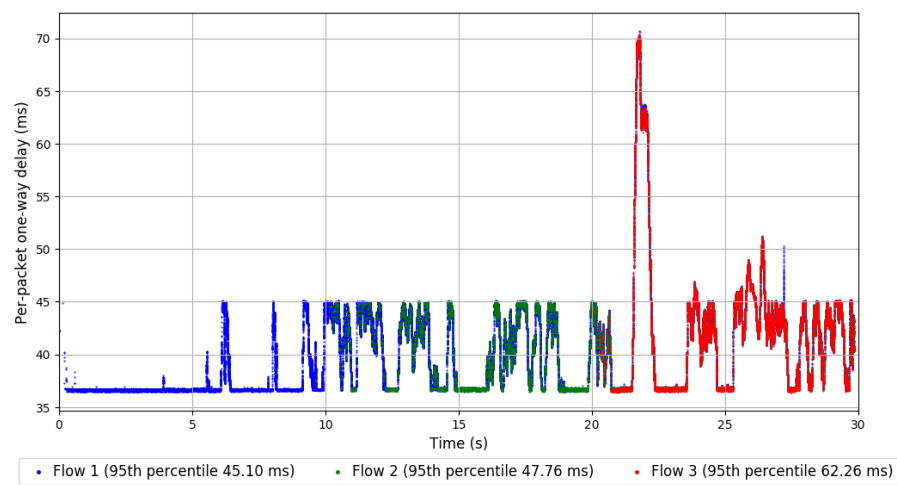
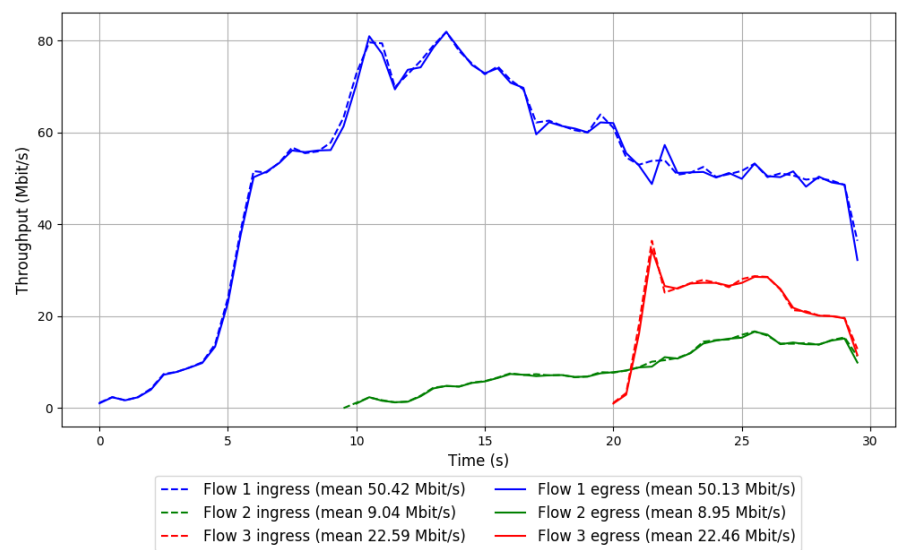


Run 6: Statistics of PCC-Vivace

Start at: 2018-04-24 19:16:04
End at: 2018-04-24 19:16:34
Local clock offset: -0.184 ms
Remote clock offset: -0.143 ms

Below is generated by plot.py at 2018-04-25 01:38:33
Datalink statistics
-- Total of 3 flows:
Average throughput: 63.45 Mbit/s
95th percentile per-packet one-way delay: 46.245 ms
Loss rate: 0.93%
-- Flow 1:
Average throughput: 50.13 Mbit/s
95th percentile per-packet one-way delay: 45.098 ms
Loss rate: 0.83%
-- Flow 2:
Average throughput: 8.95 Mbit/s
95th percentile per-packet one-way delay: 47.759 ms
Loss rate: 1.30%
-- Flow 3:
Average throughput: 22.46 Mbit/s
95th percentile per-packet one-way delay: 62.259 ms
Loss rate: 1.30%

Run 6: Report of PCC-Vivace — Data Link



Run 7: Statistics of PCC-Vivace

Start at: 2018-04-24 19:40:07

End at: 2018-04-24 19:40:37

Local clock offset: 1.207 ms

Remote clock offset: -0.2 ms

Below is generated by plot.py at 2018-04-25 01:38:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.06 Mbit/s

95th percentile per-packet one-way delay: 58.406 ms

Loss rate: 0.58%

-- Flow 1:

Average throughput: 64.51 Mbit/s

95th percentile per-packet one-way delay: 57.266 ms

Loss rate: 0.48%

-- Flow 2:

Average throughput: 26.19 Mbit/s

95th percentile per-packet one-way delay: 62.003 ms

Loss rate: 0.79%

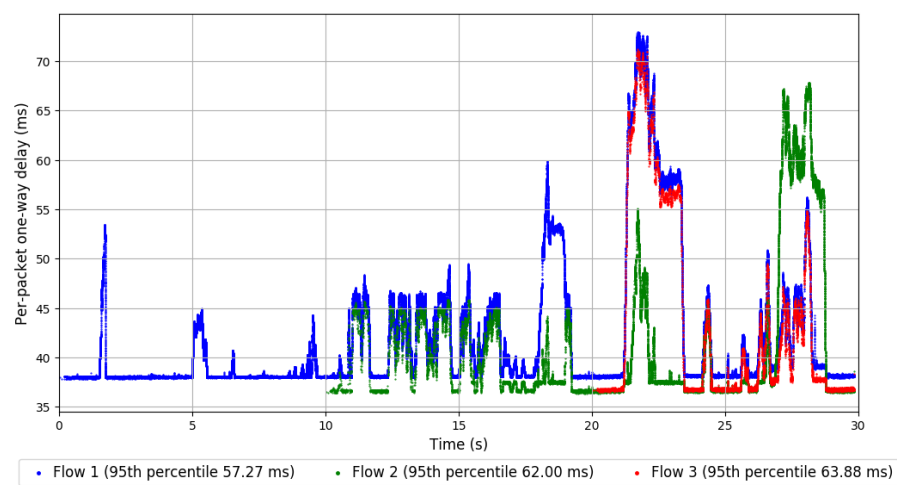
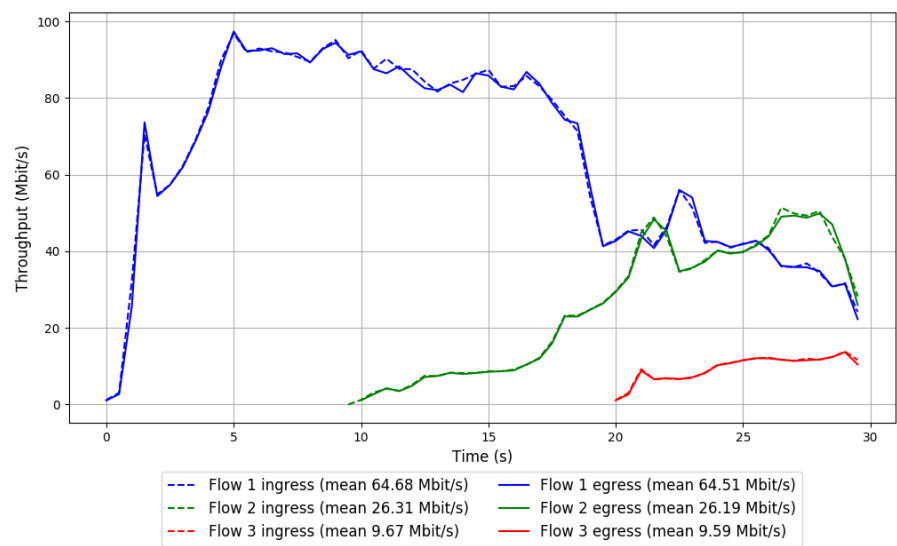
-- Flow 3:

Average throughput: 9.59 Mbit/s

95th percentile per-packet one-way delay: 63.881 ms

Loss rate: 1.49%

Run 7: Report of PCC-Vivace — Data Link



Run 8: Statistics of PCC-Vivace

Start at: 2018-04-24 20:03:42

End at: 2018-04-24 20:04:12

Local clock offset: 1.242 ms

Remote clock offset: 1.001 ms

Below is generated by plot.py at 2018-04-25 01:38:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 75.48 Mbit/s

95th percentile per-packet one-way delay: 55.443 ms

Loss rate: 0.71%

-- Flow 1:

Average throughput: 54.77 Mbit/s

95th percentile per-packet one-way delay: 50.660 ms

Loss rate: 0.58%

-- Flow 2:

Average throughput: 28.18 Mbit/s

95th percentile per-packet one-way delay: 67.046 ms

Loss rate: 0.93%

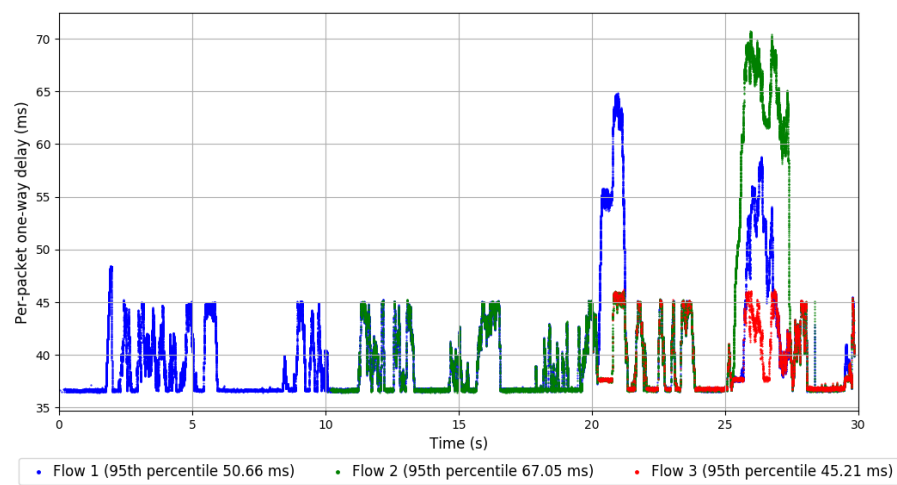
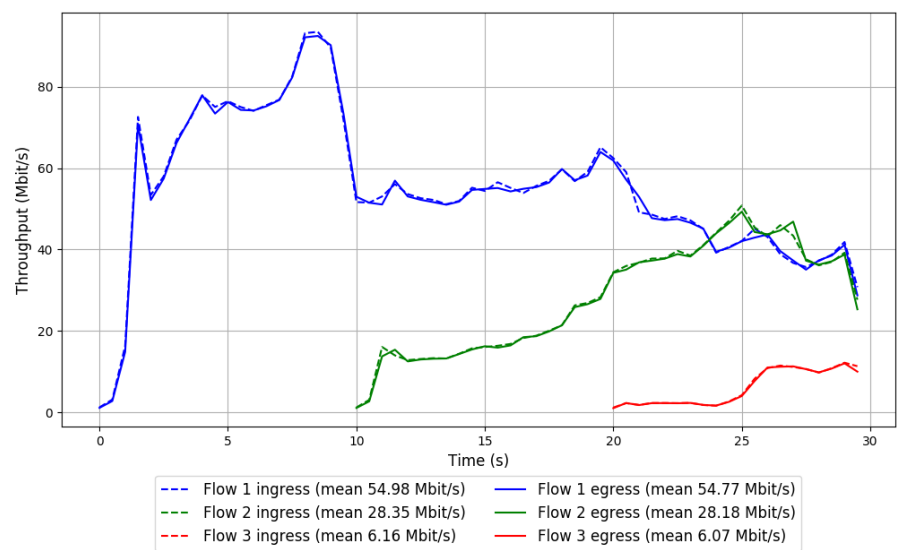
-- Flow 3:

Average throughput: 6.07 Mbit/s

95th percentile per-packet one-way delay: 45.210 ms

Loss rate: 2.16%

Run 8: Report of PCC-Vivace — Data Link



Run 9: Statistics of PCC-Vivace

Start at: 2018-04-24 20:27:47

End at: 2018-04-24 20:28:17

Local clock offset: 1.184 ms

Remote clock offset: 0.367 ms

Below is generated by plot.py at 2018-04-25 01:38:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 55.31 Mbit/s

95th percentile per-packet one-way delay: 45.362 ms

Loss rate: 0.77%

-- Flow 1:

Average throughput: 41.26 Mbit/s

95th percentile per-packet one-way delay: 45.115 ms

Loss rate: 0.63%

-- Flow 2:

Average throughput: 17.68 Mbit/s

95th percentile per-packet one-way delay: 52.292 ms

Loss rate: 1.04%

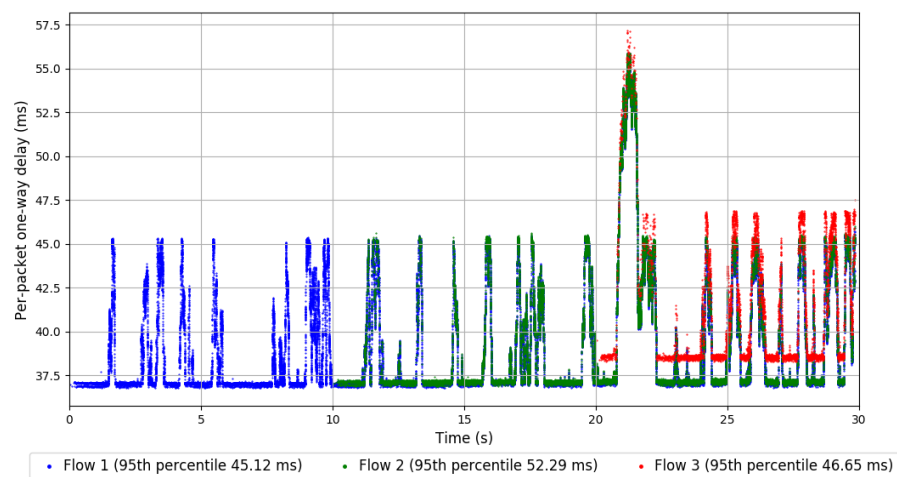
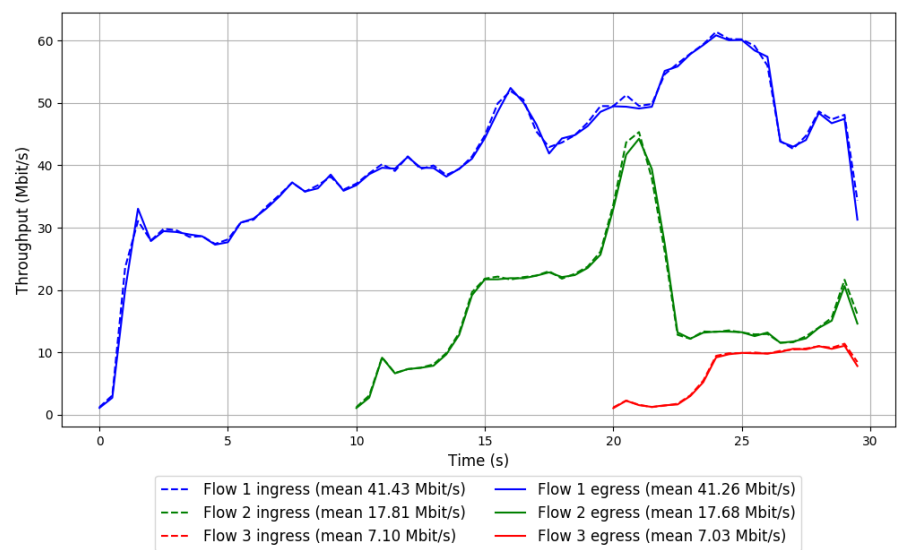
-- Flow 3:

Average throughput: 7.03 Mbit/s

95th percentile per-packet one-way delay: 46.653 ms

Loss rate: 1.73%

Run 9: Report of PCC-Vivace — Data Link



Run 10: Statistics of PCC-Vivace

Start at: 2018-04-24 20:52:25

End at: 2018-04-24 20:52:55

Local clock offset: 1.276 ms

Remote clock offset: 0.089 ms

Below is generated by plot.py at 2018-04-25 01:38:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 54.34 Mbit/s

95th percentile per-packet one-way delay: 45.494 ms

Loss rate: 1.18%

-- Flow 1:

Average throughput: 39.24 Mbit/s

95th percentile per-packet one-way delay: 45.568 ms

Loss rate: 1.06%

-- Flow 2:

Average throughput: 20.85 Mbit/s

95th percentile per-packet one-way delay: 45.404 ms

Loss rate: 1.42%

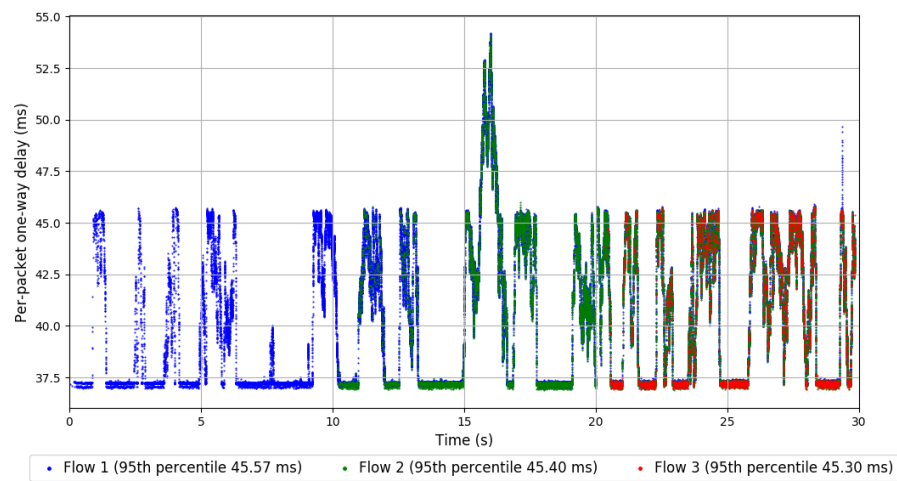
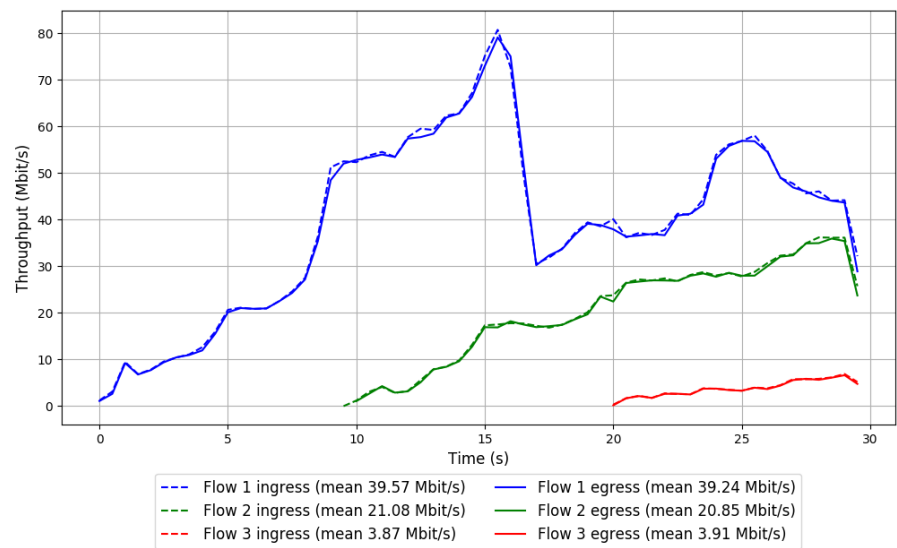
-- Flow 3:

Average throughput: 3.91 Mbit/s

95th percentile per-packet one-way delay: 45.304 ms

Loss rate: 2.34%

Run 10: Report of PCC-Vivace — Data Link



Run 1: Statistics of PCC-Expr

Start at: 2018-04-24 17:05:38

End at: 2018-04-24 17:06:08

Local clock offset: 0.95 ms

Remote clock offset: -0.521 ms

Run 1: Report of PCC-Expr — Data Link

Figure is missing

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Run 2: Statistics of PCC-Expr

Start at: 2018-04-24 17:29:11

End at: 2018-04-24 17:29:41

Local clock offset: 1.211 ms

Remote clock offset: -0.47 ms

Run 2: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 3: Statistics of PCC-Expr

Start at: 2018-04-24 17:53:03

End at: 2018-04-24 17:53:33

Local clock offset: 1.332 ms

Remote clock offset: -0.526 ms

Run 3: Report of PCC-Expr — Data Link

Figure is missing

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Run 4: Statistics of PCC-Expr

Start at: 2018-04-24 18:16:50

End at: 2018-04-24 18:17:20

Local clock offset: 1.219 ms

Remote clock offset: -0.208 ms

Run 4: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 5: Statistics of PCC-Expr

Start at: 2018-04-24 18:41:30

End at: 2018-04-24 18:42:00

Local clock offset: 0.475 ms

Remote clock offset: 0.761 ms

Run 5: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 6: Statistics of PCC-Expr

Start at: 2018-04-24 19:06:31

End at: 2018-04-24 19:07:01

Local clock offset: 0.026 ms

Remote clock offset: 0.206 ms

Run 6: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 7: Statistics of PCC-Expr

Start at: 2018-04-24 19:30:29

End at: 2018-04-24 19:30:59

Local clock offset: 1.052 ms

Remote clock offset: -0.873 ms

Run 7: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 8: Statistics of PCC-Expr

Start at: 2018-04-24 19:54:11

End at: 2018-04-24 19:54:41

Local clock offset: 1.234 ms

Remote clock offset: 0.784 ms

Run 8: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 9: Statistics of PCC-Expr

Start at: 2018-04-24 20:18:00

End at: 2018-04-24 20:18:30

Local clock offset: 1.273 ms

Remote clock offset: 0.534 ms

Run 9: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 10: Statistics of PCC-Expr

Start at: 2018-04-24 20:42:16

End at: 2018-04-24 20:42:46

Local clock offset: 1.193 ms

Remote clock offset: 0.546 ms

Run 10: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing