

Pantheon Report

Generated at 2017-09-18 15:31:52 (UTC).

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

Repeated the test of 10 congestion control schemes 10 times.

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

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

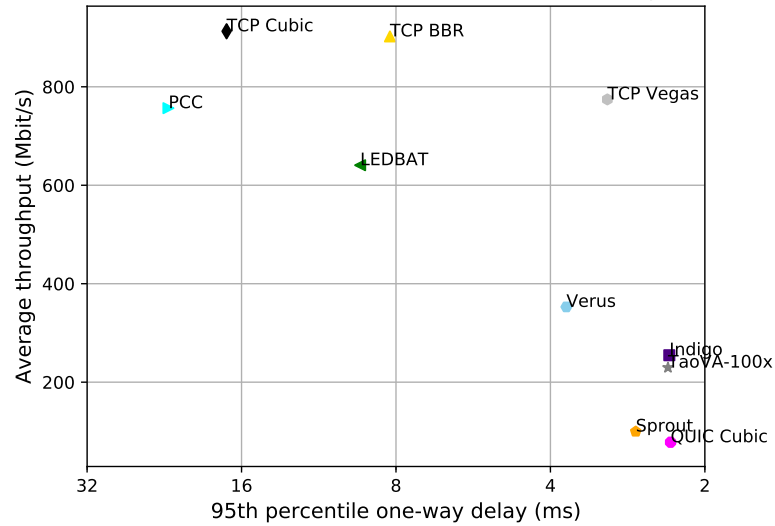
Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo_fast**).

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

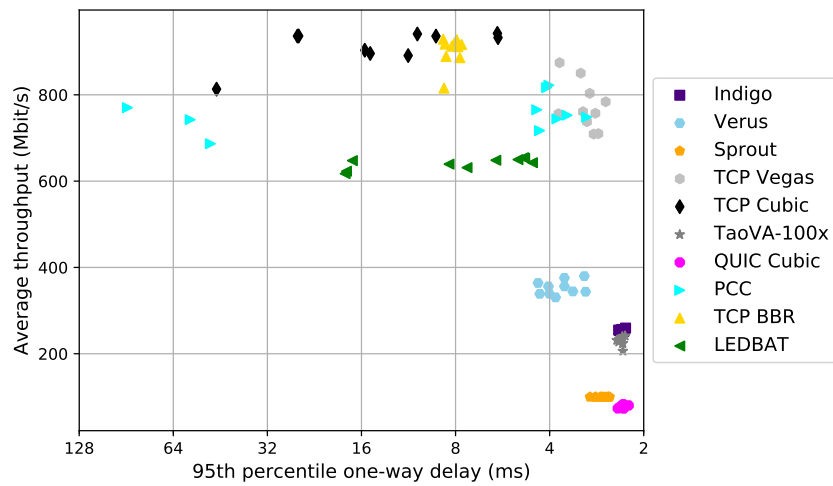
Git summary:

```
branch: master @ 57453dc11f8da93a2e03eea75289fea01b816298
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/genericCC @ f7ca42f251bf49b432bb71de6d13fa903515c366
third_party/indigo @ b19f3730105f9aa95452552af924e3719b03cc55
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
  M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ baf443516dea3eeddeccaf9b916cc313273ca4f4
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/proto-quirk @ 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/webRTC @ a488197ddd041ace68a42849b2540ad834825f42
```

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



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



scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	10	525.33	404.02	325.38	8.13	6.32	5.71	0.02	0.03	0.08
TCP Cubic	10	555.49	370.57	333.03	18.73	6.87	5.63	0.03	0.08	0.16
Indigo	10	142.16	123.91	93.06	2.34	2.36	2.37	0.01	0.03	0.04
LEDBAT	10	375.94	278.17	240.81	7.19	9.07	5.58	0.02	0.03	0.04
PCC	10	559.12	241.39	112.48	26.64	3.91	3.18	0.89	0.02	0.07
QUIC Cubic	10	1.08	78.26	78.48	2.74	2.33	2.34	0.00	0.03	0.04
Sprout	10	50.09	50.02	49.78	2.67	2.72	2.84	0.01	0.01	0.04
TaoVA-100x	10	142.17	97.30	88.10	2.36	2.36	2.38	0.01	0.02	0.05
TCP Vegas	10	438.77	333.74	341.57	3.18	3.09	2.90	0.01	0.03	0.04
Verus	10	208.51	153.18	128.41	3.69	3.87	5.84	0.01	0.01	0.04

Run 1: Statistics of TCP BBR

Start at: 2017-09-18 08:33:59

End at: 2017-09-18 08:34:29

Local clock offset: -1.86 ms

Remote clock offset: 0.404 ms

Below is generated by plot.py at 2017-09-18 14:09:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 815.46 Mbit/s

95th percentile per-packet one-way delay: 8.712 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 434.87 Mbit/s

95th percentile per-packet one-way delay: 8.964 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 402.37 Mbit/s

95th percentile per-packet one-way delay: 5.496 ms

Loss rate: 0.03%

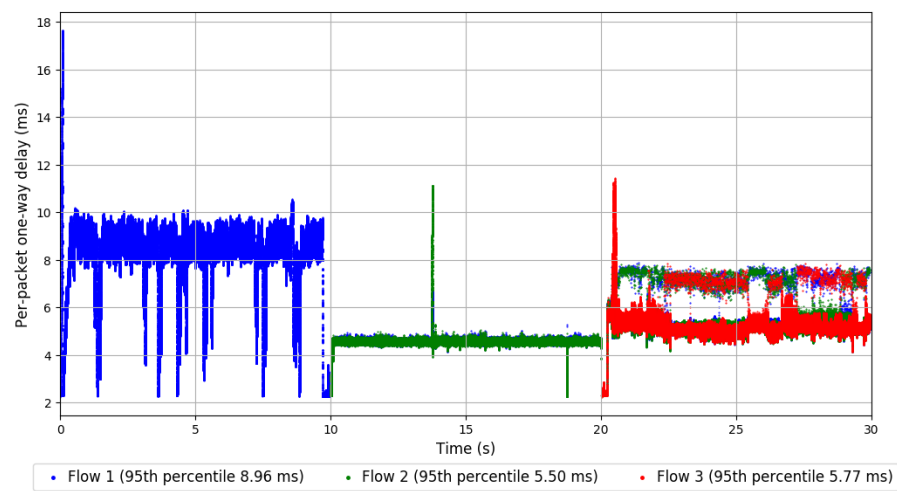
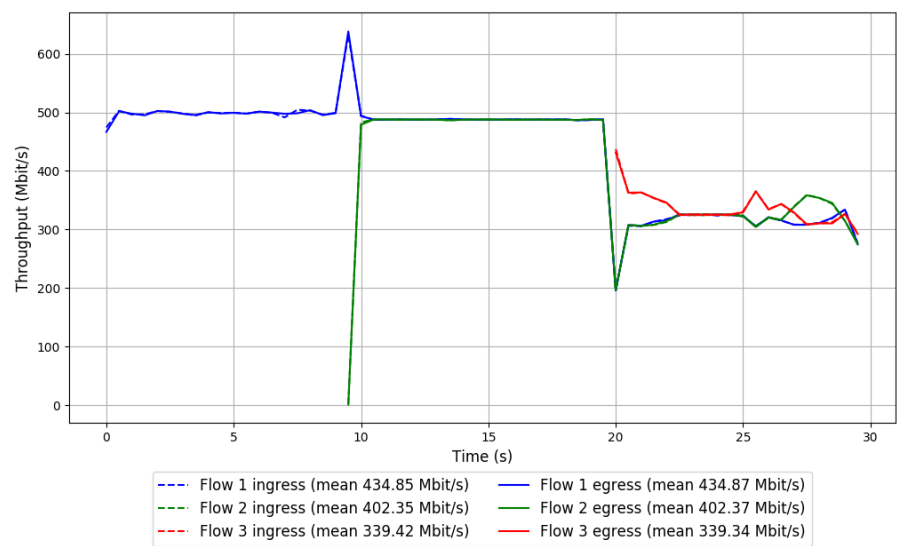
-- Flow 3:

Average throughput: 339.34 Mbit/s

95th percentile per-packet one-way delay: 5.769 ms

Loss rate: 0.08%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2017-09-18 08:48:10

End at: 2017-09-18 08:48:40

Local clock offset: -1.893 ms

Remote clock offset: 0.619 ms

Below is generated by plot.py at 2017-09-18 14:11:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 916.58 Mbit/s

95th percentile per-packet one-way delay: 7.653 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 541.31 Mbit/s

95th percentile per-packet one-way delay: 7.821 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 403.36 Mbit/s

95th percentile per-packet one-way delay: 5.694 ms

Loss rate: 0.03%

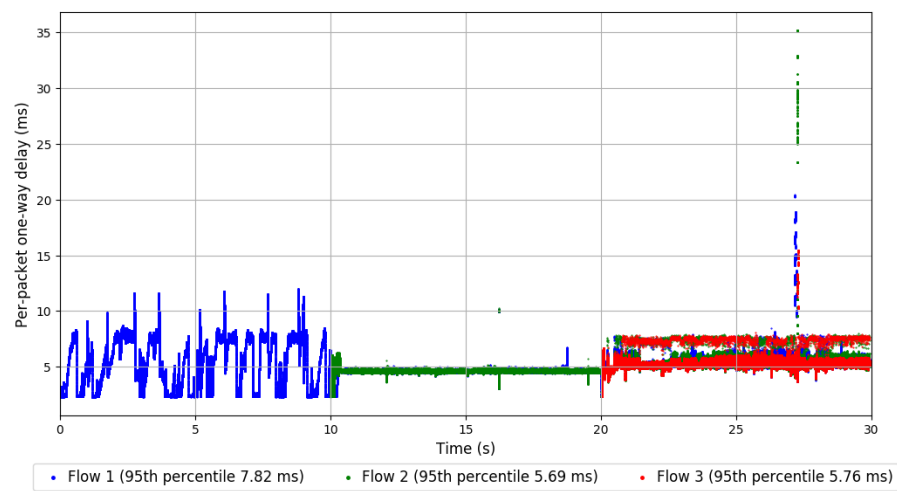
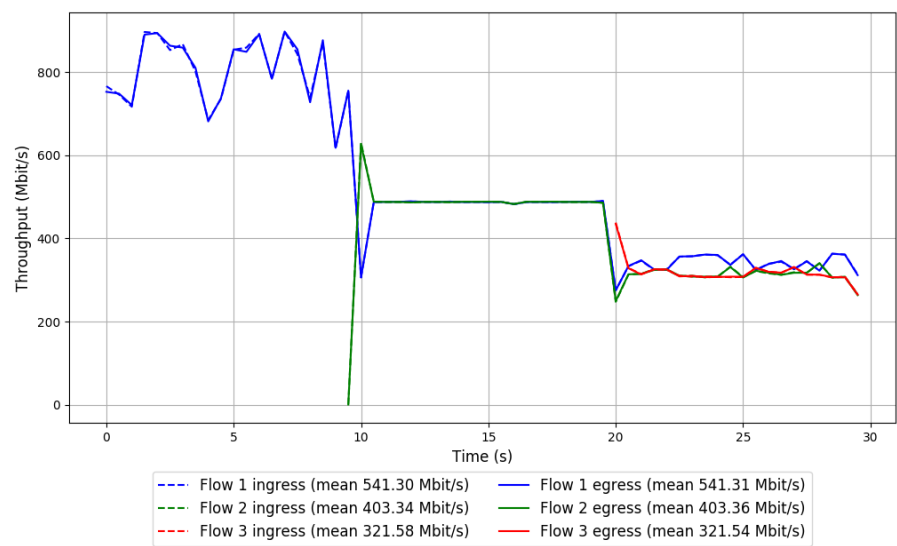
-- Flow 3:

Average throughput: 321.54 Mbit/s

95th percentile per-packet one-way delay: 5.765 ms

Loss rate: 0.08%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2017-09-18 09:02:25

End at: 2017-09-18 09:02:55

Local clock offset: -1.963 ms

Remote clock offset: 0.907 ms

Below is generated by plot.py at 2017-09-18 14:11:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 886.02 Mbit/s

95th percentile per-packet one-way delay: 7.750 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 510.41 Mbit/s

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

Loss rate: 0.07%

-- Flow 2:

Average throughput: 405.47 Mbit/s

95th percentile per-packet one-way delay: 5.728 ms

Loss rate: 0.03%

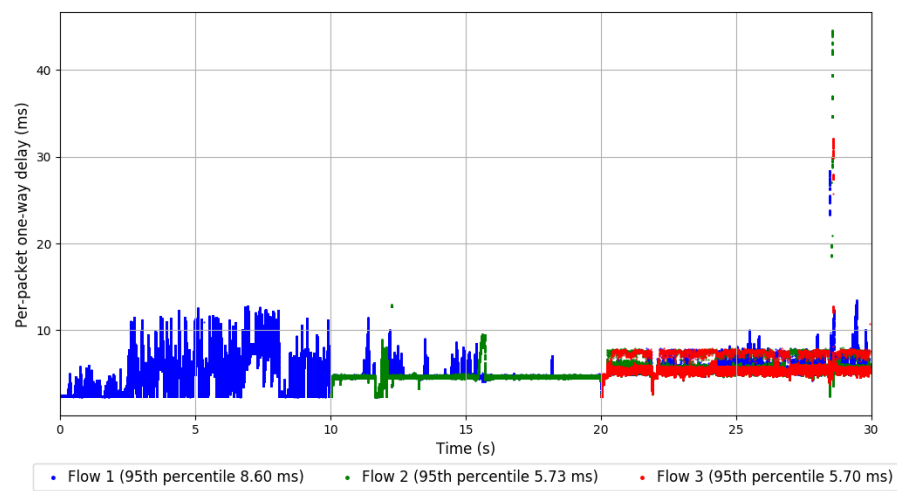
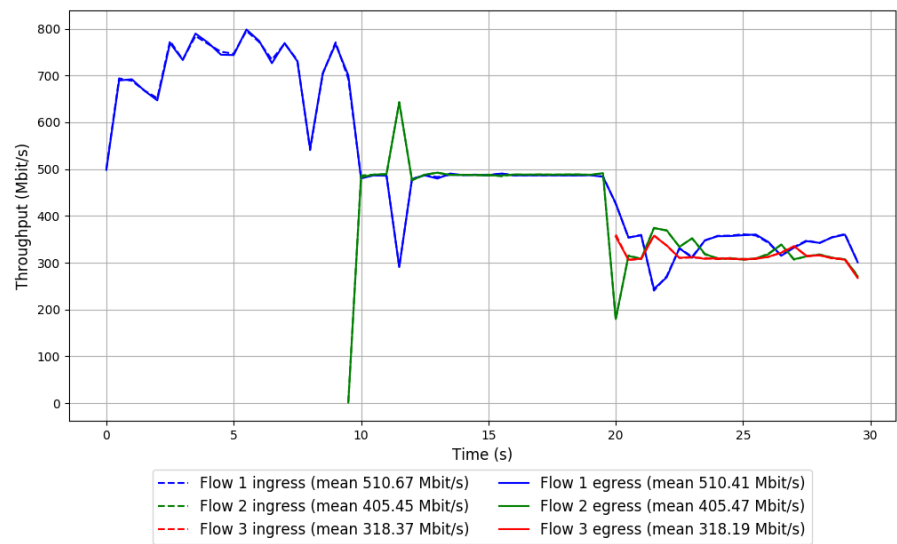
-- Flow 3:

Average throughput: 318.19 Mbit/s

95th percentile per-packet one-way delay: 5.697 ms

Loss rate: 0.07%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2017-09-18 09:16:40

End at: 2017-09-18 09:17:10

Local clock offset: -1.674 ms

Remote clock offset: 1.113 ms

Below is generated by plot.py at 2017-09-18 14:11:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 912.70 Mbit/s

95th percentile per-packet one-way delay: 8.224 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 533.85 Mbit/s

95th percentile per-packet one-way delay: 8.711 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 410.26 Mbit/s

95th percentile per-packet one-way delay: 5.549 ms

Loss rate: 0.03%

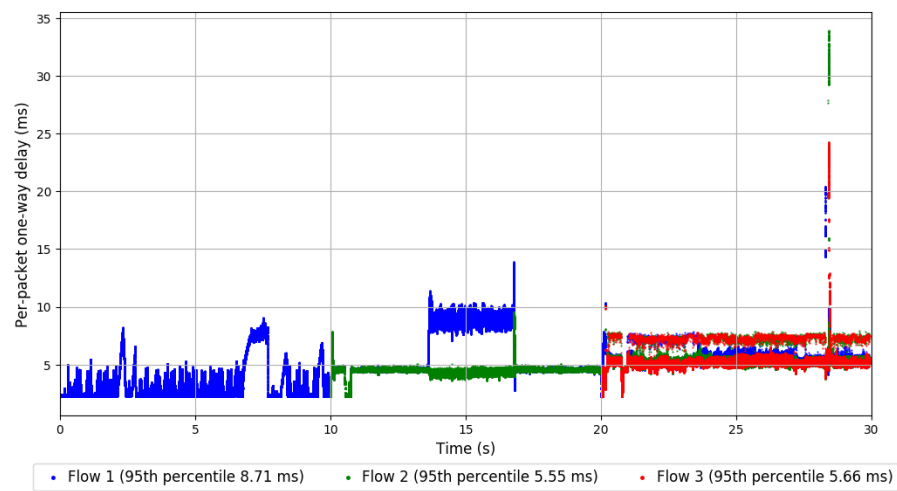
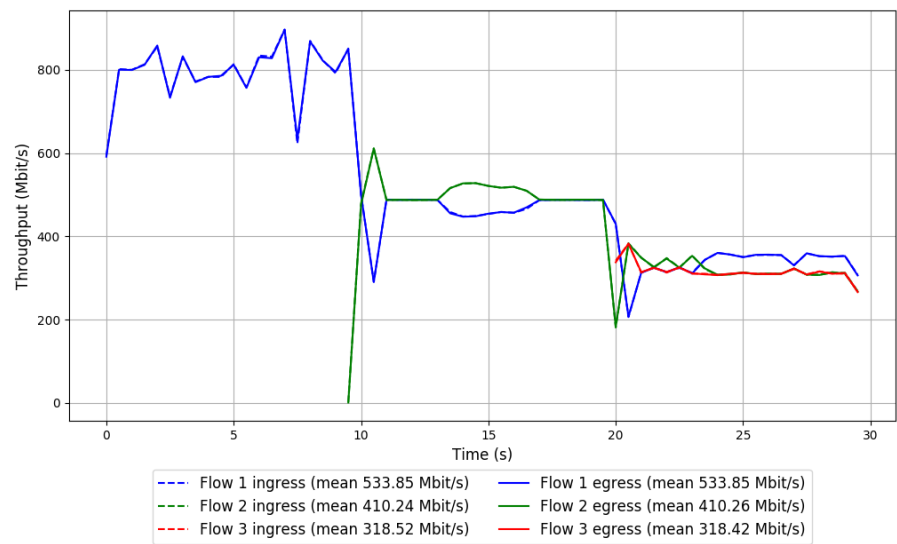
-- Flow 3:

Average throughput: 318.42 Mbit/s

95th percentile per-packet one-way delay: 5.661 ms

Loss rate: 0.08%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2017-09-18 09:30:59

End at: 2017-09-18 09:31:29

Local clock offset: -1.707 ms

Remote clock offset: 1.285 ms

Below is generated by plot.py at 2017-09-18 14:11:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 928.19 Mbit/s

95th percentile per-packet one-way delay: 7.941 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 552.27 Mbit/s

95th percentile per-packet one-way delay: 8.082 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 402.06 Mbit/s

95th percentile per-packet one-way delay: 5.521 ms

Loss rate: 0.03%

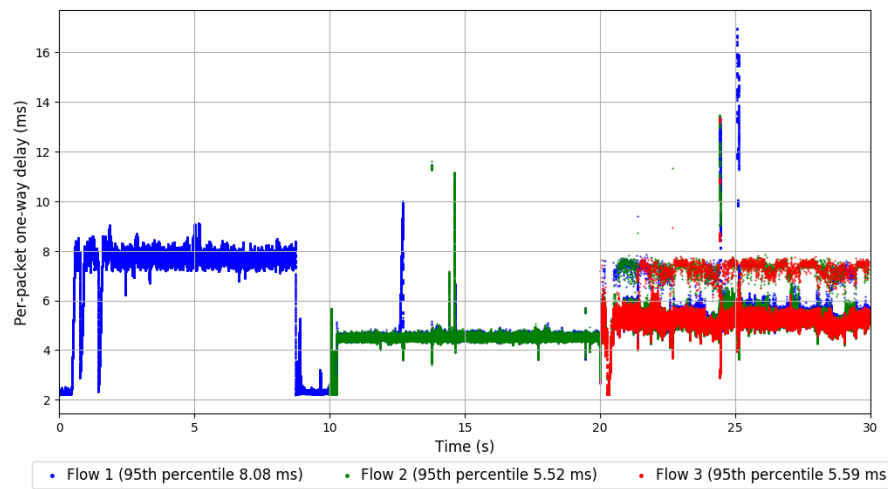
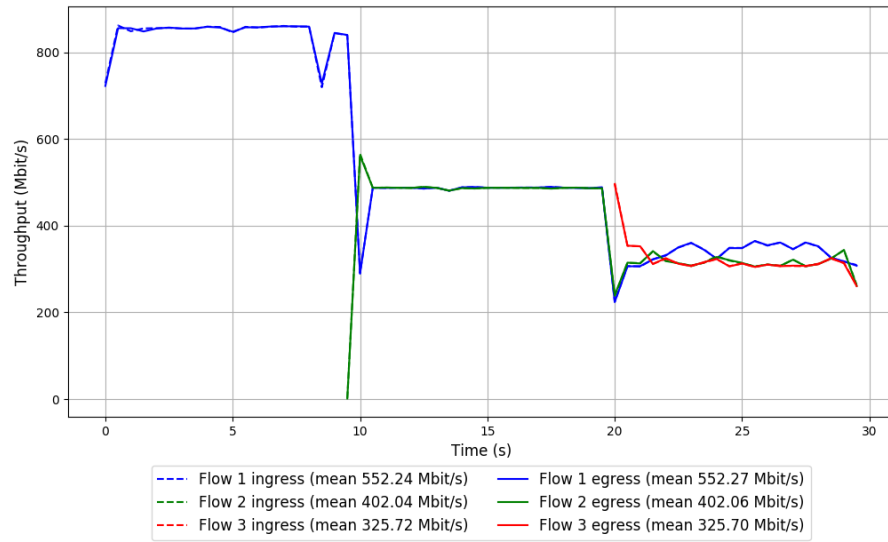
-- Flow 3:

Average throughput: 325.70 Mbit/s

95th percentile per-packet one-way delay: 5.595 ms

Loss rate: 0.07%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2017-09-18 09:45:19

End at: 2017-09-18 09:45:49

Local clock offset: -1.703 ms

Remote clock offset: 1.476 ms

Below is generated by plot.py at 2017-09-18 14:11:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 888.81 Mbit/s

95th percentile per-packet one-way delay: 8.578 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 515.25 Mbit/s

95th percentile per-packet one-way delay: 8.427 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 397.32 Mbit/s

95th percentile per-packet one-way delay: 9.247 ms

Loss rate: 0.03%

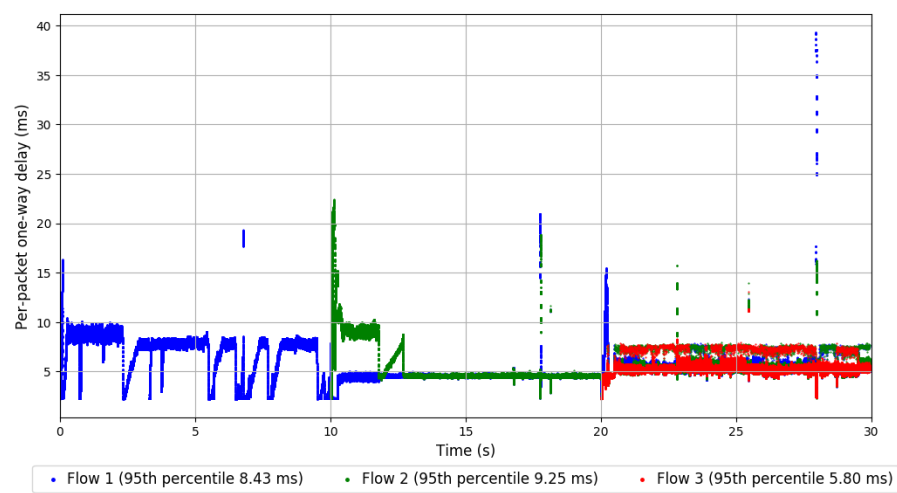
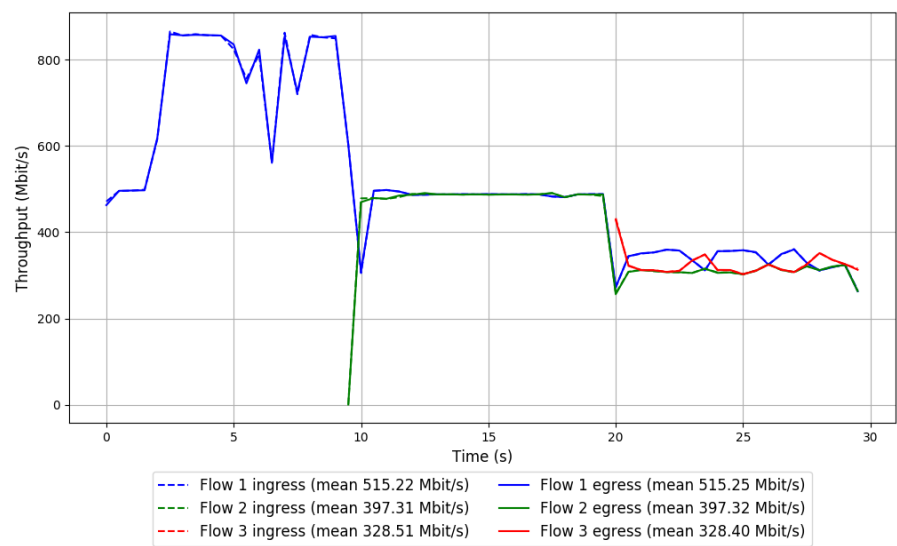
-- Flow 3:

Average throughput: 328.40 Mbit/s

95th percentile per-packet one-way delay: 5.802 ms

Loss rate: 0.09%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2017-09-18 09:59:34

End at: 2017-09-18 10:00:04

Local clock offset: -1.723 ms

Remote clock offset: 1.581 ms

Below is generated by plot.py at 2017-09-18 14:11:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 917.45 Mbit/s

95th percentile per-packet one-way delay: 8.639 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 538.42 Mbit/s

95th percentile per-packet one-way delay: 8.984 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 405.73 Mbit/s

95th percentile per-packet one-way delay: 5.573 ms

Loss rate: 0.03%

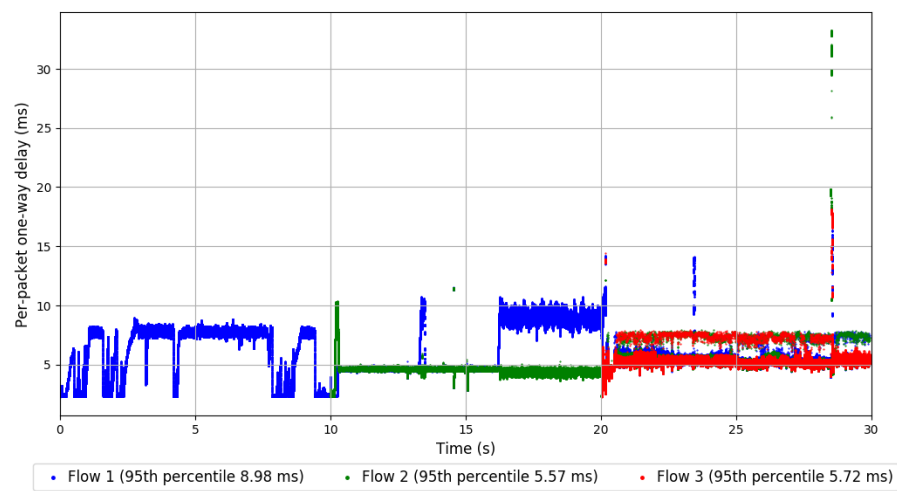
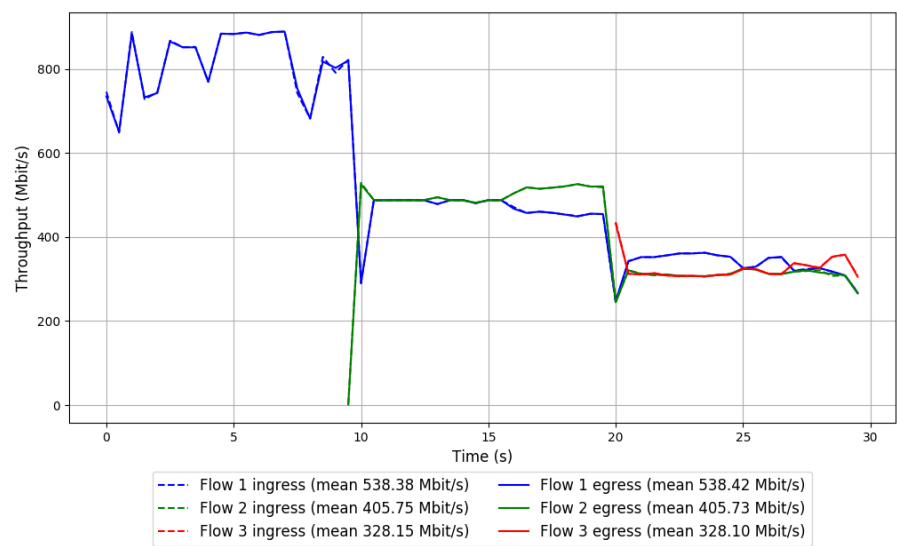
-- Flow 3:

Average throughput: 328.10 Mbit/s

95th percentile per-packet one-way delay: 5.719 ms

Loss rate: 0.08%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2017-09-18 10:13:57

End at: 2017-09-18 10:14:27

Local clock offset: -1.989 ms

Remote clock offset: 1.611 ms

Below is generated by plot.py at 2017-09-18 14:11:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 911.37 Mbit/s

95th percentile per-packet one-way delay: 7.856 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 534.83 Mbit/s

95th percentile per-packet one-way delay: 8.041 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 404.41 Mbit/s

95th percentile per-packet one-way delay: 5.534 ms

Loss rate: 0.03%

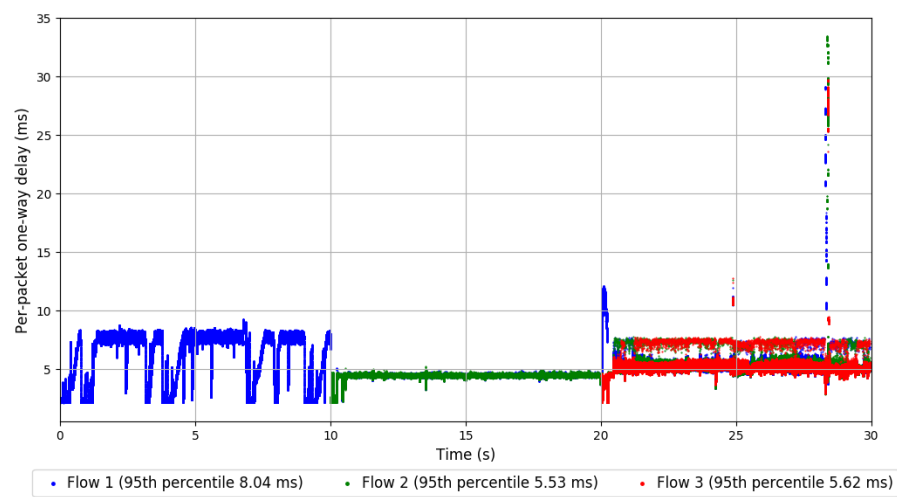
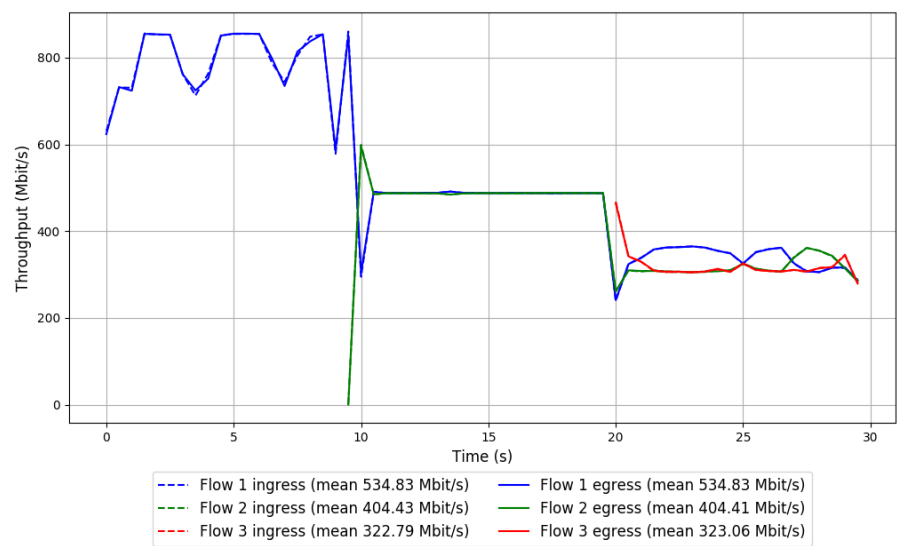
-- Flow 3:

Average throughput: 323.06 Mbit/s

95th percentile per-packet one-way delay: 5.618 ms

Loss rate: 0.07%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2017-09-18 10:28:18

End at: 2017-09-18 10:28:48

Local clock offset: -1.96 ms

Remote clock offset: 1.422 ms

Below is generated by plot.py at 2017-09-18 14:22:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 918.05 Mbit/s

95th percentile per-packet one-way delay: 8.089 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 541.66 Mbit/s

95th percentile per-packet one-way delay: 8.246 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 404.94 Mbit/s

95th percentile per-packet one-way delay: 5.594 ms

Loss rate: 0.03%

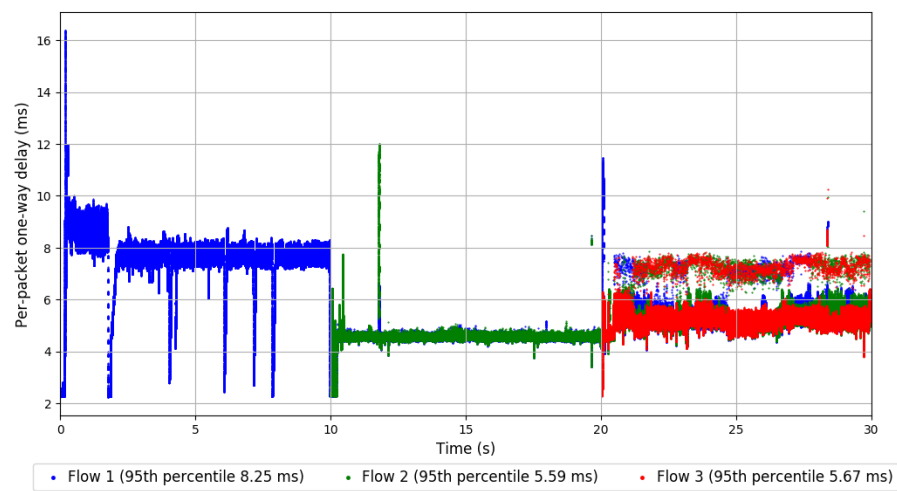
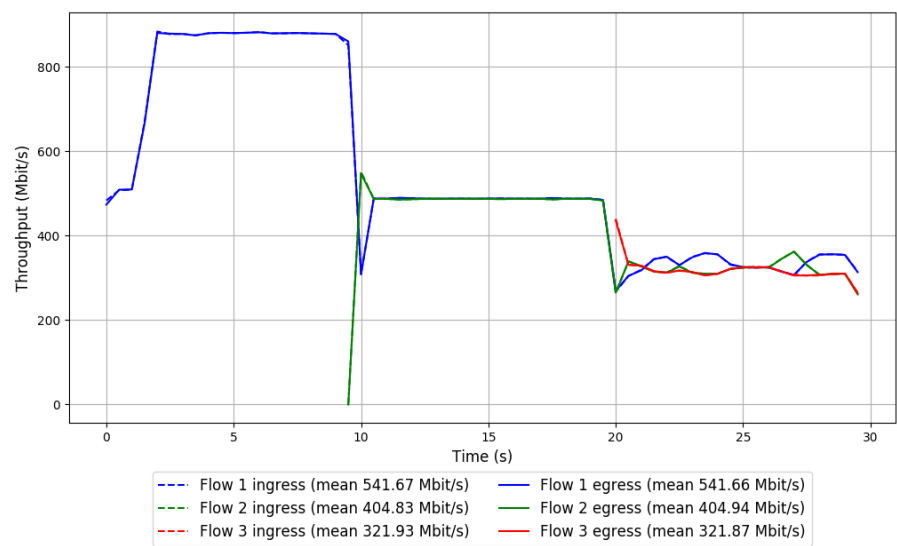
-- Flow 3:

Average throughput: 321.87 Mbit/s

95th percentile per-packet one-way delay: 5.672 ms

Loss rate: 0.08%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2017-09-18 10:42:33

End at: 2017-09-18 10:43:03

Local clock offset: -2.06 ms

Remote clock offset: 0.817 ms

Below is generated by plot.py at 2017-09-18 14:24:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 928.71 Mbit/s

95th percentile per-packet one-way delay: 8.761 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 550.38 Mbit/s

95th percentile per-packet one-way delay: 5.432 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 404.24 Mbit/s

95th percentile per-packet one-way delay: 9.298 ms

Loss rate: 0.03%

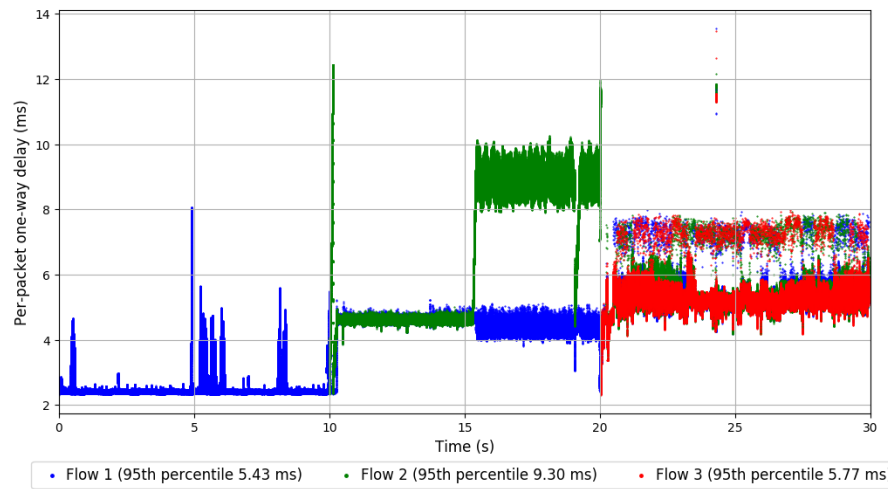
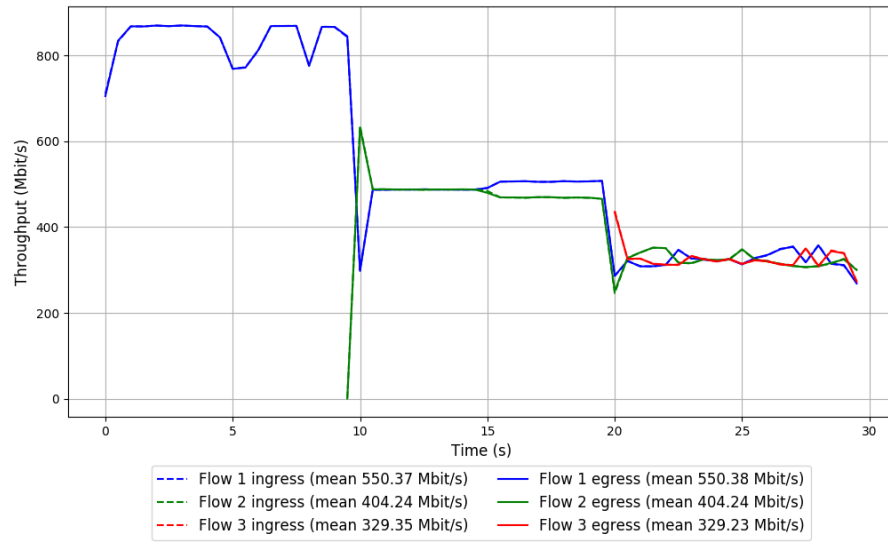
-- Flow 3:

Average throughput: 329.23 Mbit/s

95th percentile per-packet one-way delay: 5.771 ms

Loss rate: 0.08%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2017-09-18 08:30:51

End at: 2017-09-18 08:31:21

Local clock offset: -1.866 ms

Remote clock offset: 0.333 ms

Below is generated by plot.py at 2017-09-18 14:24:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 903.36 Mbit/s

95th percentile per-packet one-way delay: 15.616 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 529.01 Mbit/s

95th percentile per-packet one-way delay: 15.544 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 402.59 Mbit/s

95th percentile per-packet one-way delay: 18.782 ms

Loss rate: 0.03%

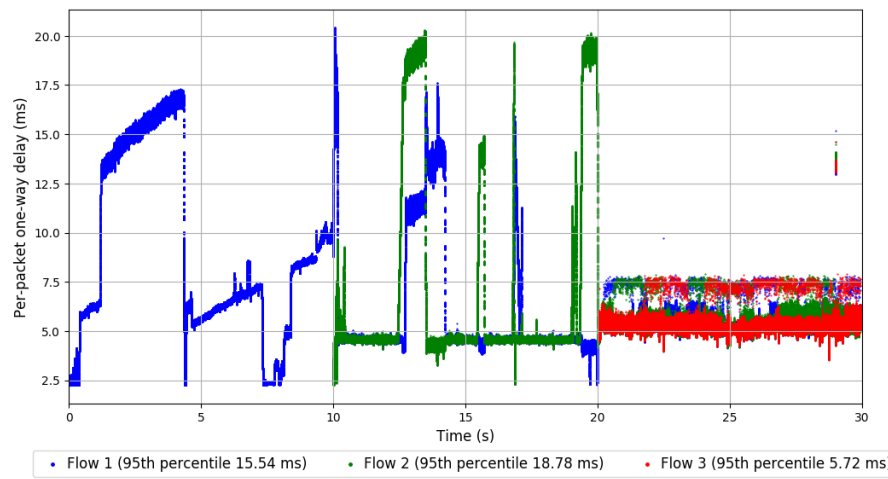
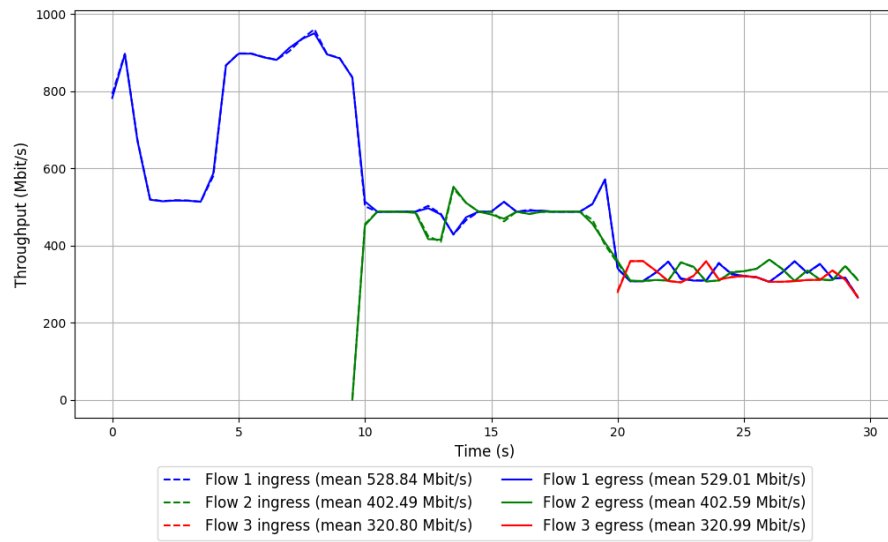
-- Flow 3:

Average throughput: 320.99 Mbit/s

95th percentile per-packet one-way delay: 5.724 ms

Loss rate: 0.09%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2017-09-18 08:45:01

End at: 2017-09-18 08:45:31

Local clock offset: -1.944 ms

Remote clock offset: 0.628 ms

Below is generated by plot.py at 2017-09-18 14:24:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 890.93 Mbit/s

95th percentile per-packet one-way delay: 11.343 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 509.05 Mbit/s

95th percentile per-packet one-way delay: 13.894 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 418.93 Mbit/s

95th percentile per-packet one-way delay: 5.642 ms

Loss rate: 0.09%

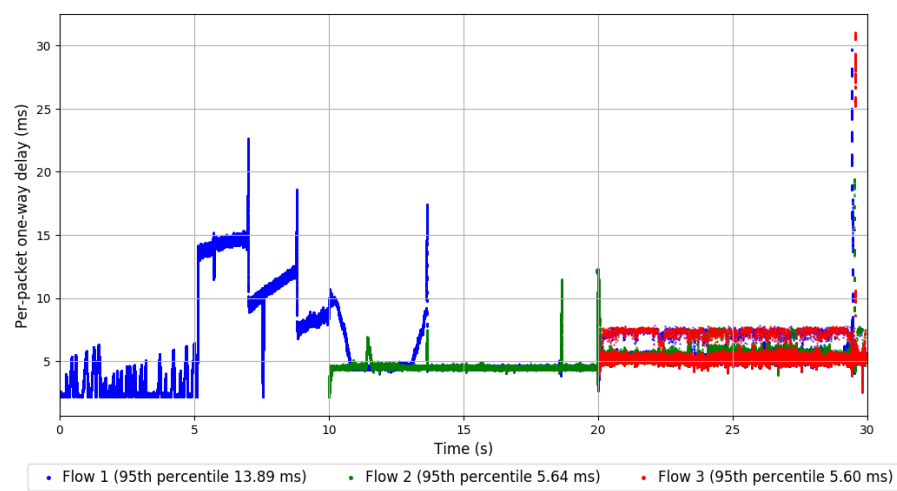
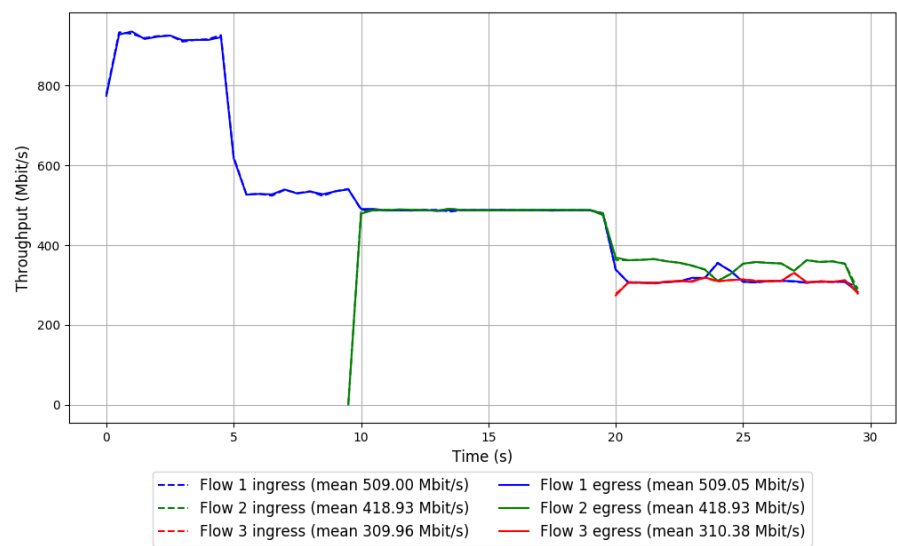
-- Flow 3:

Average throughput: 310.38 Mbit/s

95th percentile per-packet one-way delay: 5.602 ms

Loss rate: 0.12%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2017-09-18 08:59:17

End at: 2017-09-18 08:59:47

Local clock offset: -1.976 ms

Remote clock offset: 0.874 ms

Below is generated by plot.py at 2017-09-18 14:24:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 895.79 Mbit/s

95th percentile per-packet one-way delay: 15.001 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 680.12 Mbit/s

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

Loss rate: 0.01%

-- Flow 2:

Average throughput: 102.55 Mbit/s

95th percentile per-packet one-way delay: 4.850 ms

Loss rate: 0.08%

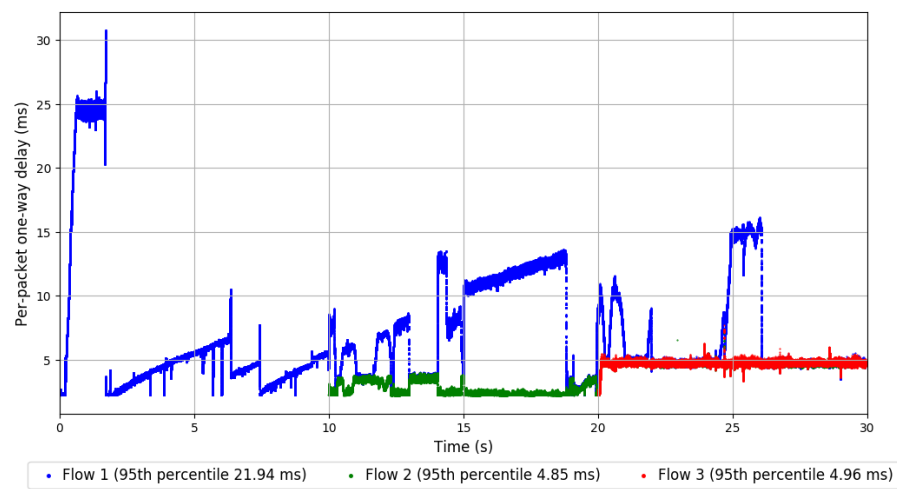
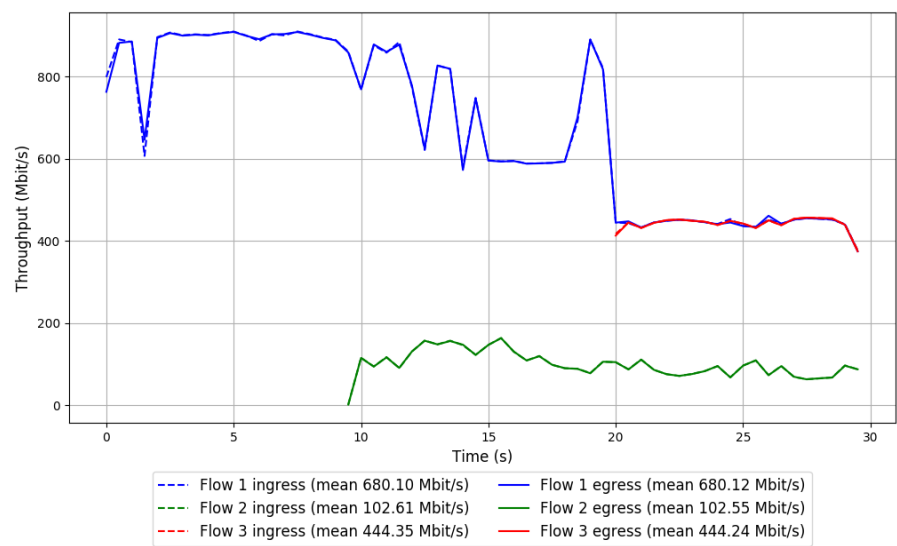
-- Flow 3:

Average throughput: 444.24 Mbit/s

95th percentile per-packet one-way delay: 4.965 ms

Loss rate: 0.07%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2017-09-18 09:13:35

End at: 2017-09-18 09:14:05

Local clock offset: -1.724 ms

Remote clock offset: 1.079 ms

Below is generated by plot.py at 2017-09-18 14:24:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 813.14 Mbit/s

95th percentile per-packet one-way delay: 46.536 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 437.19 Mbit/s

95th percentile per-packet one-way delay: 49.947 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 409.33 Mbit/s

95th percentile per-packet one-way delay: 5.561 ms

Loss rate: 0.09%

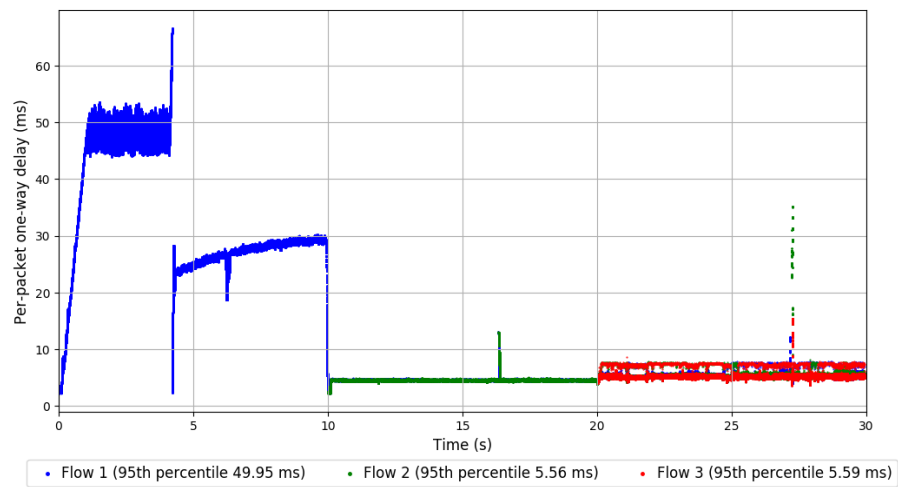
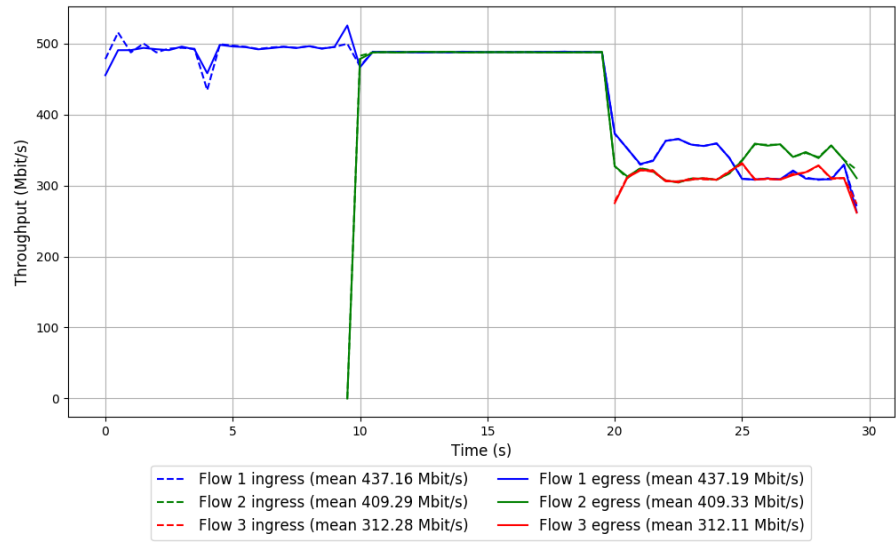
-- Flow 3:

Average throughput: 312.11 Mbit/s

95th percentile per-packet one-way delay: 5.587 ms

Loss rate: 0.24%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2017-09-18 09:27:50

End at: 2017-09-18 09:28:20

Local clock offset: -1.642 ms

Remote clock offset: 1.243 ms

Below is generated by plot.py at 2017-09-18 14:24:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 940.95 Mbit/s

95th percentile per-packet one-way delay: 10.598 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 593.48 Mbit/s

95th percentile per-packet one-way delay: 12.103 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 345.08 Mbit/s

95th percentile per-packet one-way delay: 5.496 ms

Loss rate: 0.05%

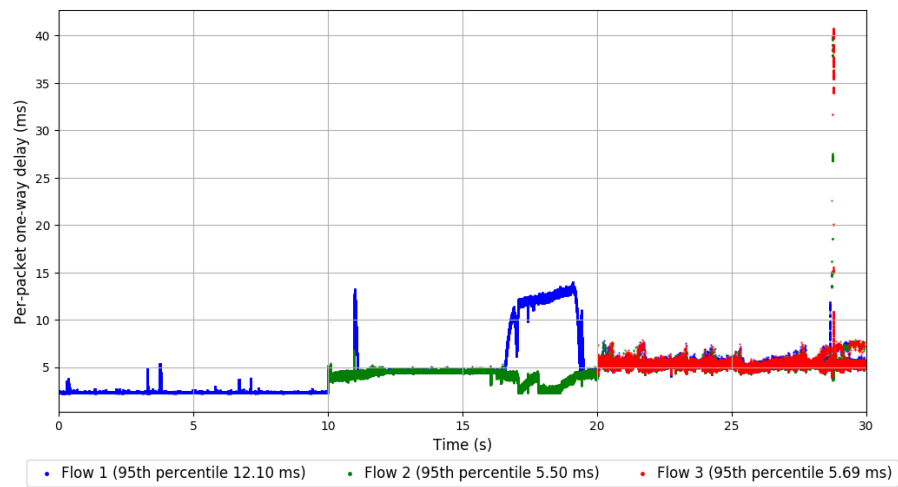
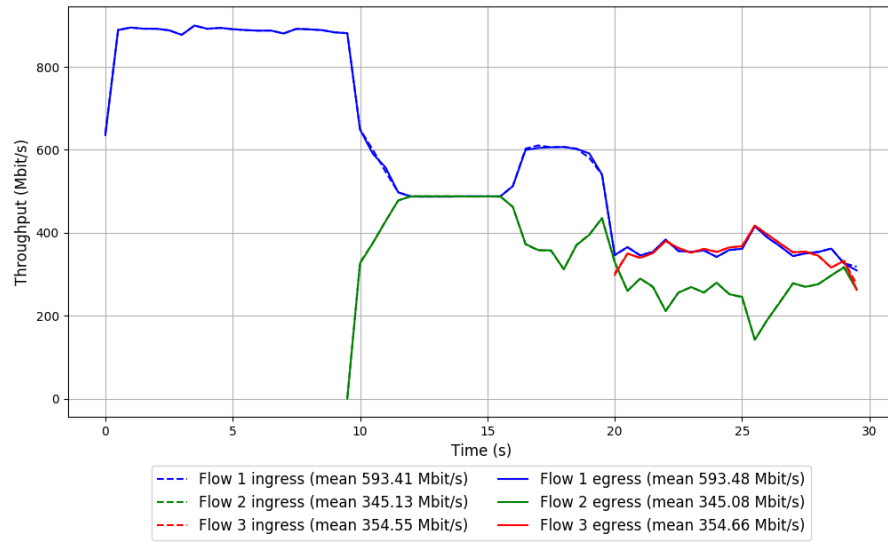
-- Flow 3:

Average throughput: 354.66 Mbit/s

95th percentile per-packet one-way delay: 5.694 ms

Loss rate: 0.22%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2017-09-18 09:42:09

End at: 2017-09-18 09:42:39

Local clock offset: -1.669 ms

Remote clock offset: 1.439 ms

Below is generated by plot.py at 2017-09-18 14:24:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 936.31 Mbit/s

95th percentile per-packet one-way delay: 25.411 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 562.84 Mbit/s

95th percentile per-packet one-way delay: 25.584 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 404.42 Mbit/s

95th percentile per-packet one-way delay: 5.640 ms

Loss rate: 0.03%

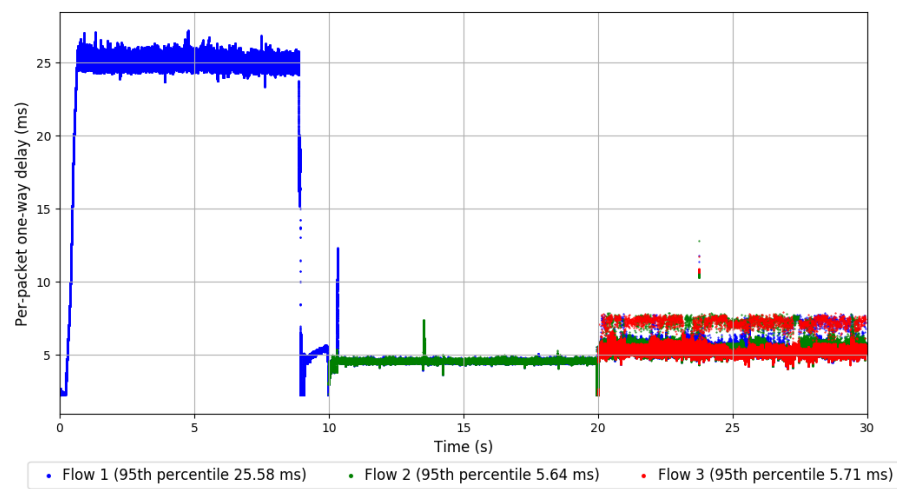
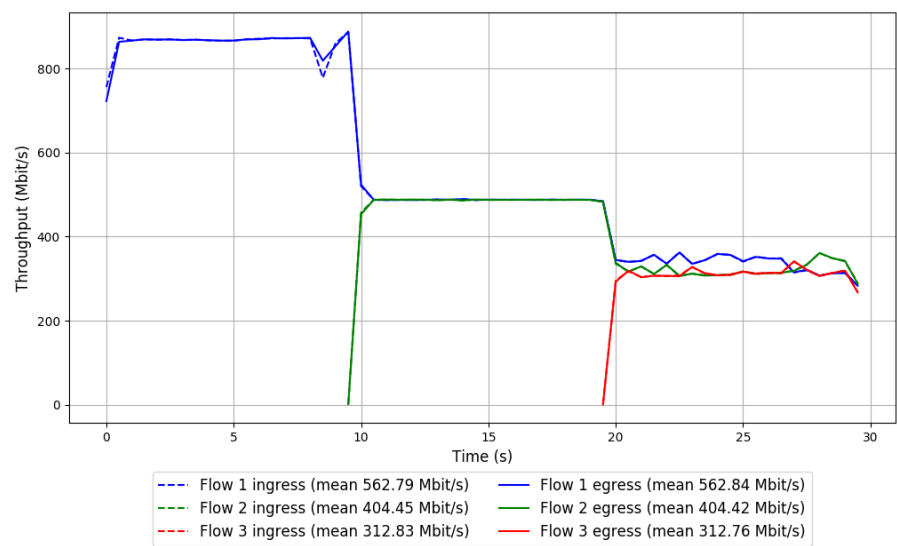
-- Flow 3:

Average throughput: 312.76 Mbit/s

95th percentile per-packet one-way delay: 5.708 ms

Loss rate: 0.07%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2017-09-18 09:56:27

End at: 2017-09-18 09:56:57

Local clock offset: -1.696 ms

Remote clock offset: 1.565 ms

Below is generated by plot.py at 2017-09-18 14:36:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 942.35 Mbit/s

95th percentile per-packet one-way delay: 5.878 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 567.69 Mbit/s

95th percentile per-packet one-way delay: 6.131 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 404.72 Mbit/s

95th percentile per-packet one-way delay: 5.681 ms

Loss rate: 0.10%

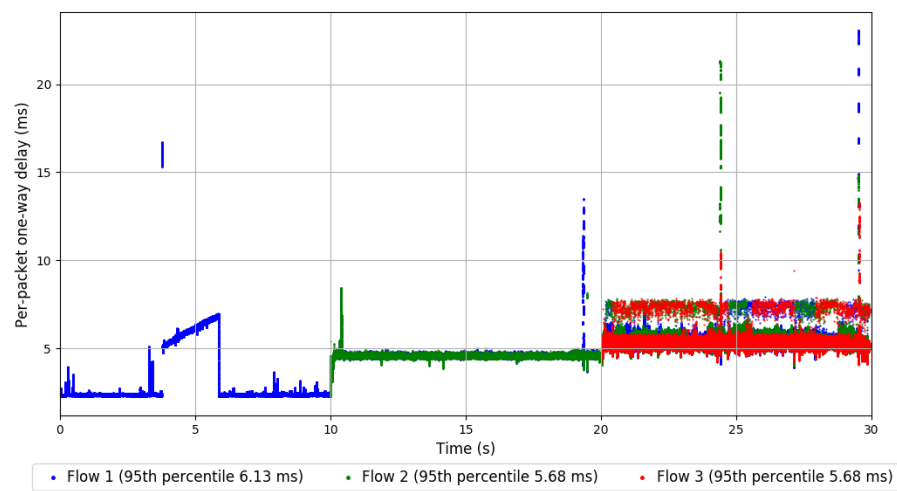
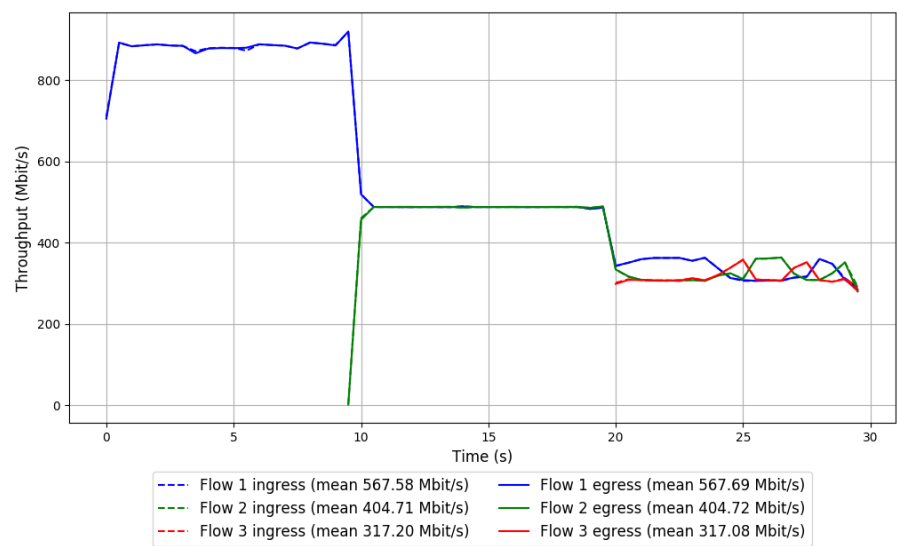
-- Flow 3:

Average throughput: 317.08 Mbit/s

95th percentile per-packet one-way delay: 5.682 ms

Loss rate: 0.24%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2017-09-18 10:10:47

End at: 2017-09-18 10:11:17

Local clock offset: -1.883 ms

Remote clock offset: 1.64 ms

Below is generated by plot.py at 2017-09-18 14:36:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 932.48 Mbit/s

95th percentile per-packet one-way delay: 5.851 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 559.94 Mbit/s

95th percentile per-packet one-way delay: 6.230 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 399.52 Mbit/s

95th percentile per-packet one-way delay: 5.648 ms

Loss rate: 0.10%

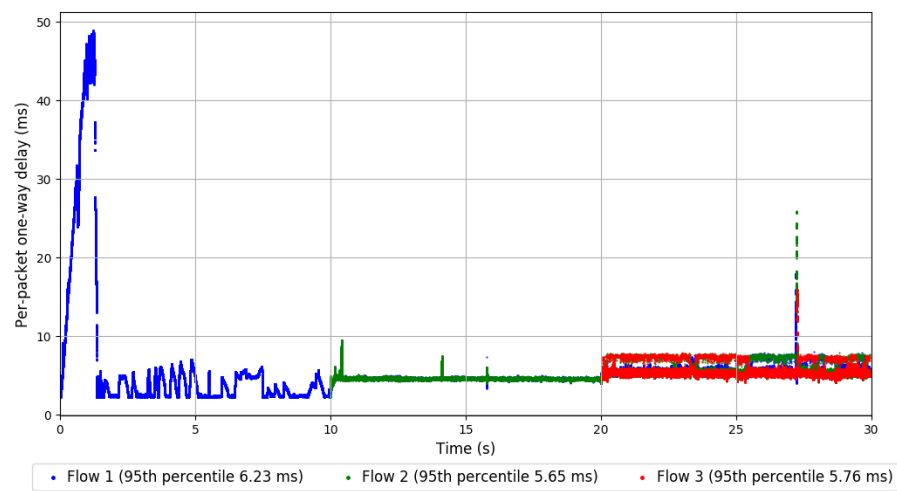
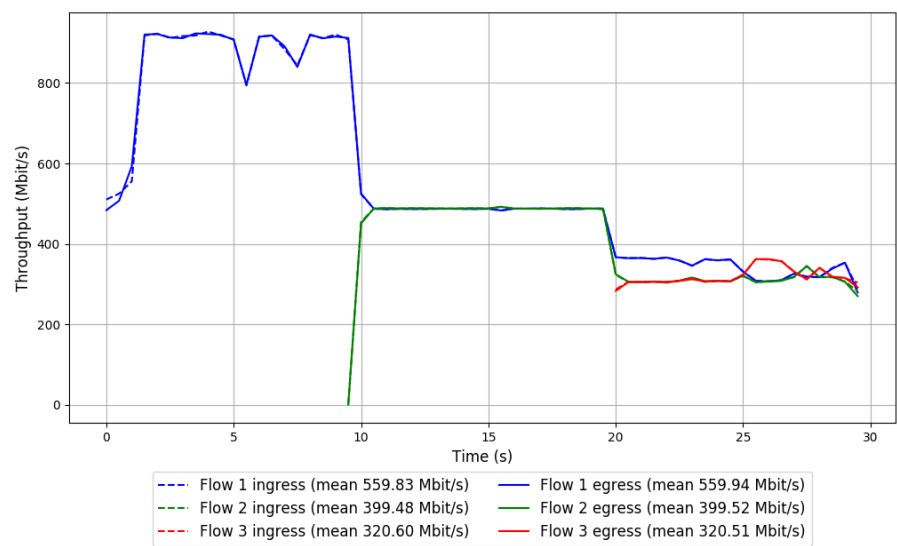
-- Flow 3:

Average throughput: 320.51 Mbit/s

95th percentile per-packet one-way delay: 5.759 ms

Loss rate: 0.24%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2017-09-18 10:25:08

End at: 2017-09-18 10:25:38

Local clock offset: -1.935 ms

Remote clock offset: 1.445 ms

Below is generated by plot.py at 2017-09-18 14:37:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 936.14 Mbit/s

95th percentile per-packet one-way delay: 25.640 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 559.57 Mbit/s

95th percentile per-packet one-way delay: 26.003 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 406.20 Mbit/s

95th percentile per-packet one-way delay: 5.656 ms

Loss rate: 0.10%

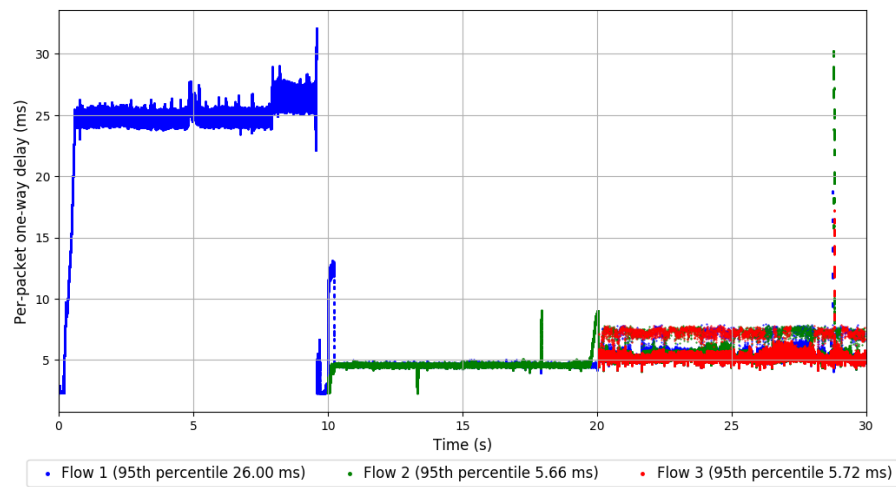
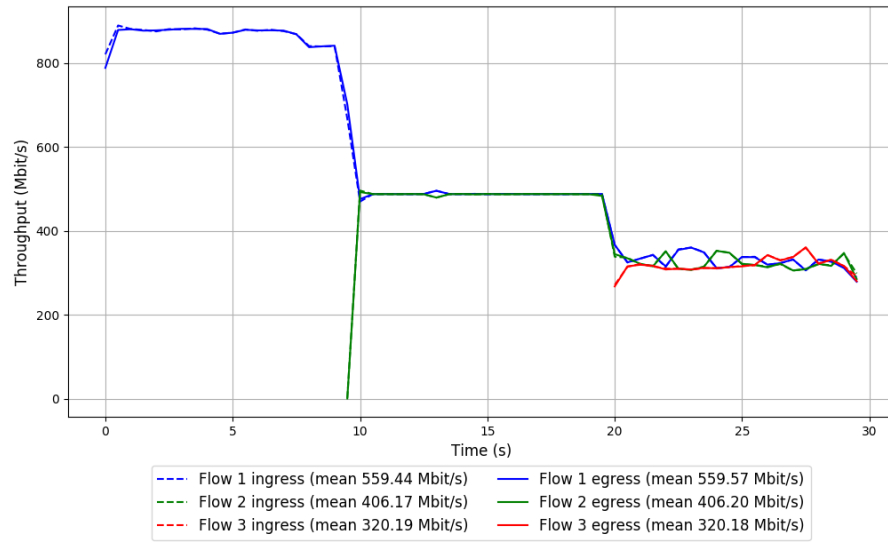
-- Flow 3:

Average throughput: 320.18 Mbit/s

95th percentile per-packet one-way delay: 5.718 ms

Loss rate: 0.23%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2017-09-18 10:39:25

End at: 2017-09-18 10:39:55

Local clock offset: -2.05 ms

Remote clock offset: 0.924 ms

Below is generated by plot.py at 2017-09-18 14:37:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 935.99 Mbit/s

95th percentile per-packet one-way delay: 9.242 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 555.98 Mbit/s

95th percentile per-packet one-way delay: 9.880 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 412.36 Mbit/s

95th percentile per-packet one-way delay: 5.703 ms

Loss rate: 0.09%

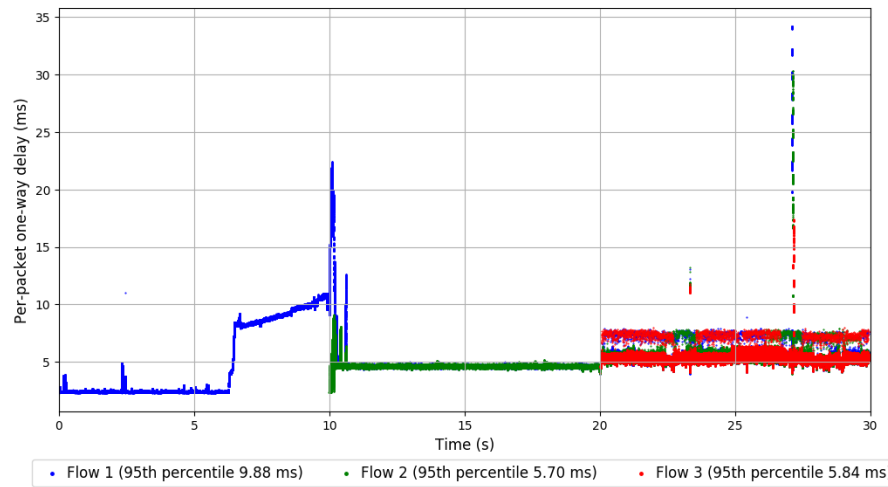
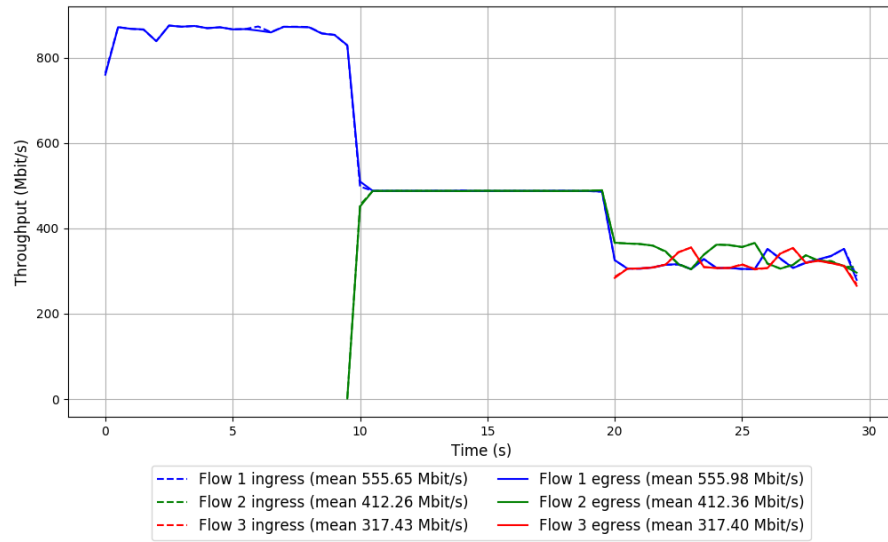
-- Flow 3:

Average throughput: 317.40 Mbit/s

95th percentile per-packet one-way delay: 5.842 ms

Loss rate: 0.13%

Run 10: Report of TCP Cubic — Data Link

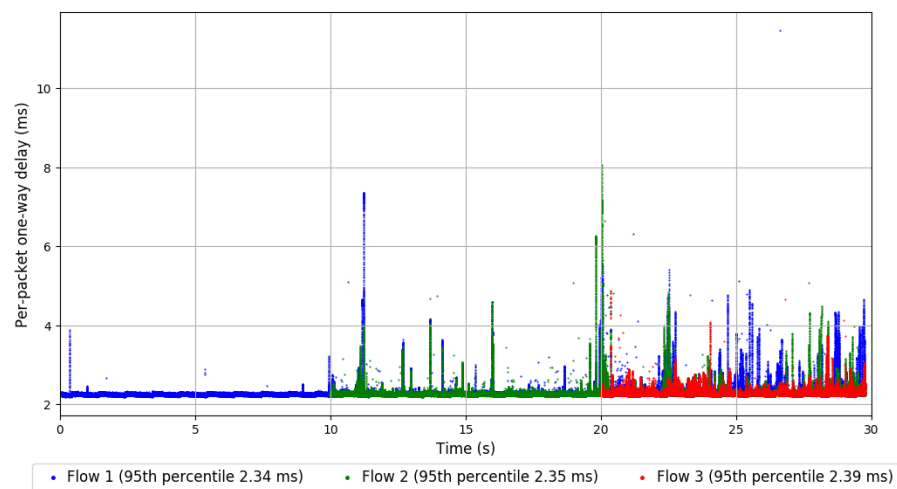
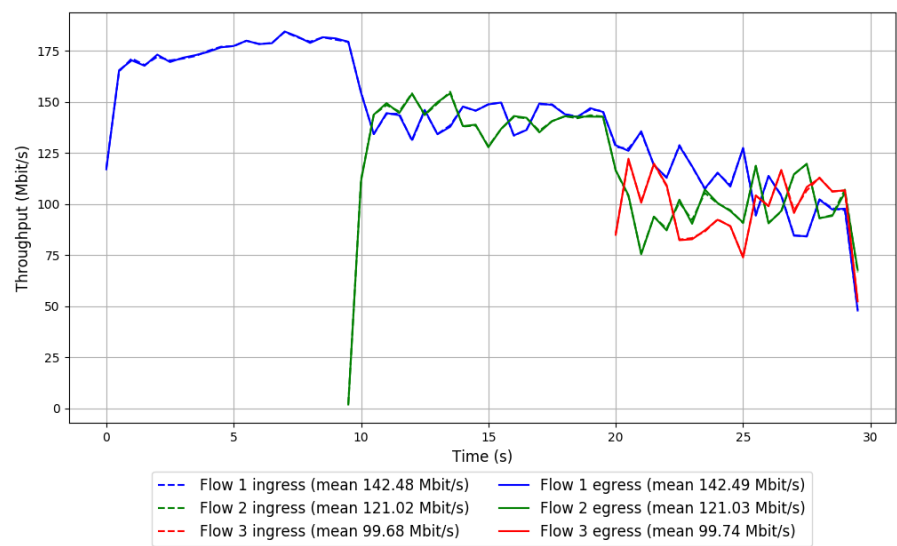


```
Run 1: Statistics of Indigo

Start at: 2017-09-18 08:35:36
End at: 2017-09-18 08:36:06
Local clock offset: -1.878 ms
Remote clock offset: 0.453 ms

# Below is generated by plot.py at 2017-09-18 14:37:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 255.73 Mbit/s
95th percentile per-packet one-way delay: 2.348 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 142.49 Mbit/s
95th percentile per-packet one-way delay: 2.336 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 121.03 Mbit/s
95th percentile per-packet one-way delay: 2.350 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 99.74 Mbit/s
95th percentile per-packet one-way delay: 2.388 ms
Loss rate: 0.00%
```


Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2017-09-18 08:49:52

End at: 2017-09-18 08:50:22

Local clock offset: -1.913 ms

Remote clock offset: 0.706 ms

Below is generated by plot.py at 2017-09-18 14:37:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 253.30 Mbit/s

95th percentile per-packet one-way delay: 2.369 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 142.85 Mbit/s

95th percentile per-packet one-way delay: 2.367 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 122.94 Mbit/s

95th percentile per-packet one-way delay: 2.381 ms

Loss rate: 0.01%

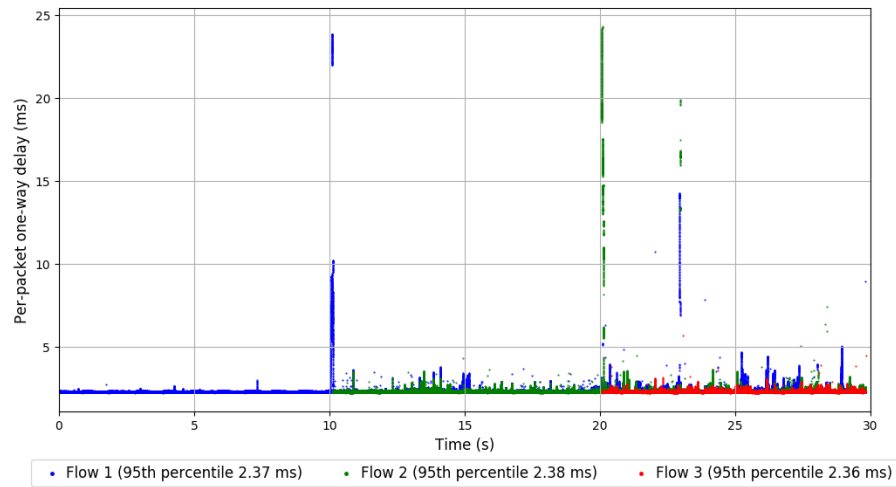
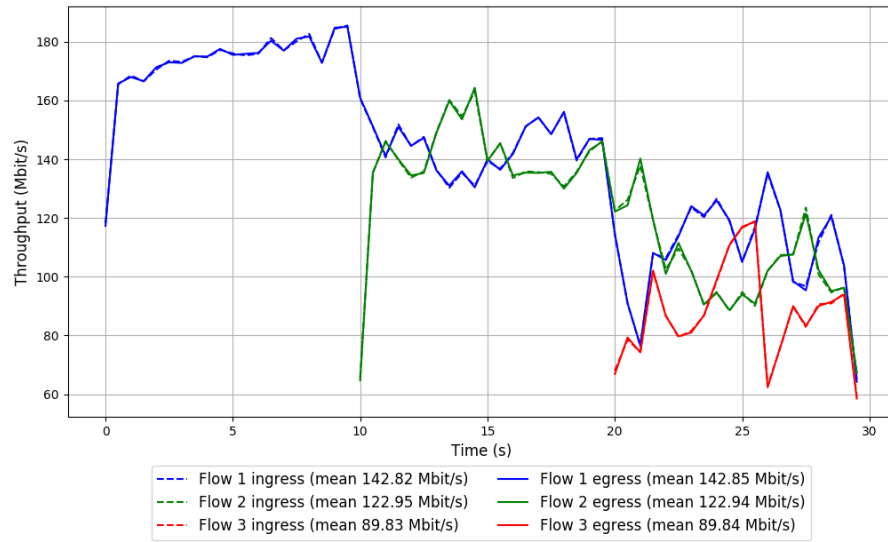
-- Flow 3:

Average throughput: 89.84 Mbit/s

95th percentile per-packet one-way delay: 2.359 ms

Loss rate: 0.06%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2017-09-18 09:04:08

End at: 2017-09-18 09:04:38

Local clock offset: -1.963 ms

Remote clock offset: 0.957 ms

Below is generated by plot.py at 2017-09-18 14:37:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 251.47 Mbit/s

95th percentile per-packet one-way delay: 2.317 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 141.71 Mbit/s

95th percentile per-packet one-way delay: 2.300 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 122.81 Mbit/s

95th percentile per-packet one-way delay: 2.336 ms

Loss rate: 0.02%

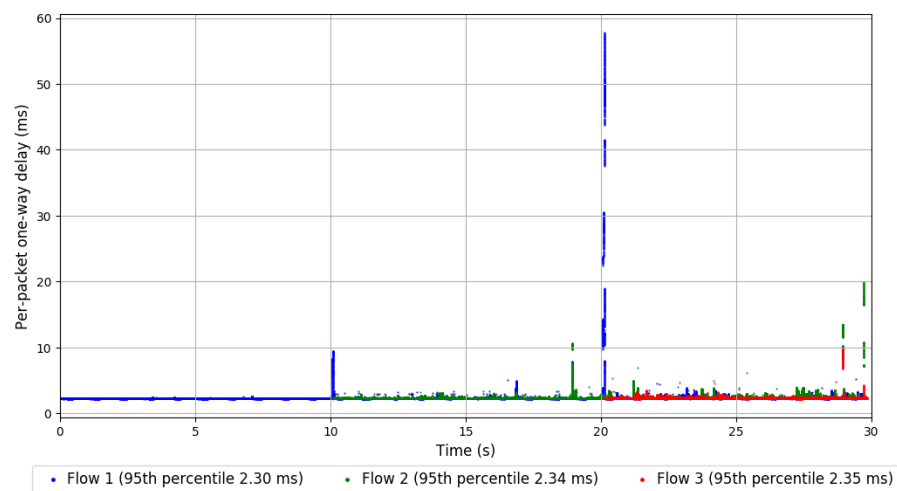
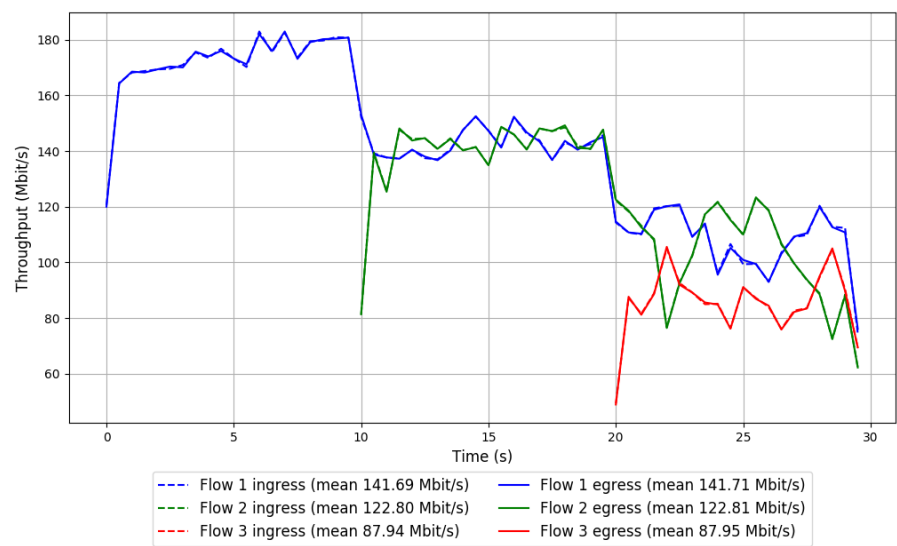
-- Flow 3:

Average throughput: 87.95 Mbit/s

95th percentile per-packet one-way delay: 2.353 ms

Loss rate: 0.03%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2017-09-18 09:18:22

End at: 2017-09-18 09:18:52

Local clock offset: -1.653 ms

Remote clock offset: 1.071 ms

Below is generated by plot.py at 2017-09-18 14:37:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 254.92 Mbit/s

95th percentile per-packet one-way delay: 2.406 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 140.19 Mbit/s

95th percentile per-packet one-way delay: 2.396 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 127.37 Mbit/s

95th percentile per-packet one-way delay: 2.421 ms

Loss rate: 0.02%

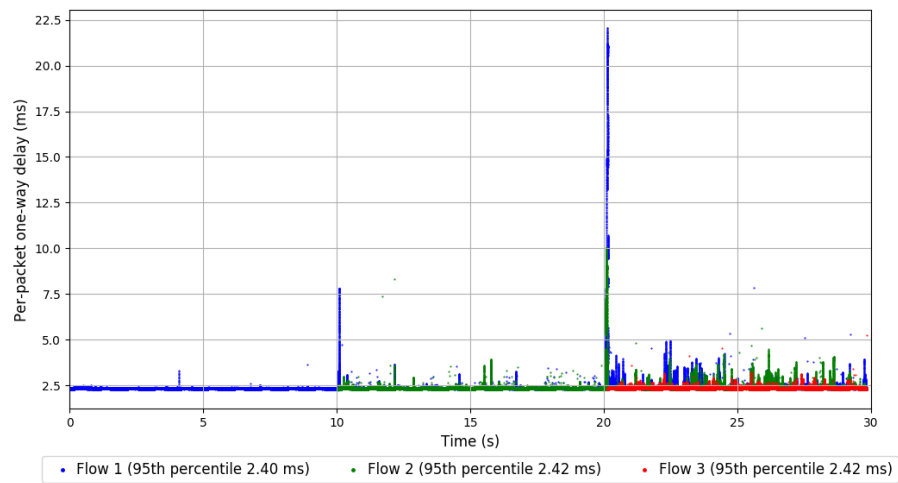
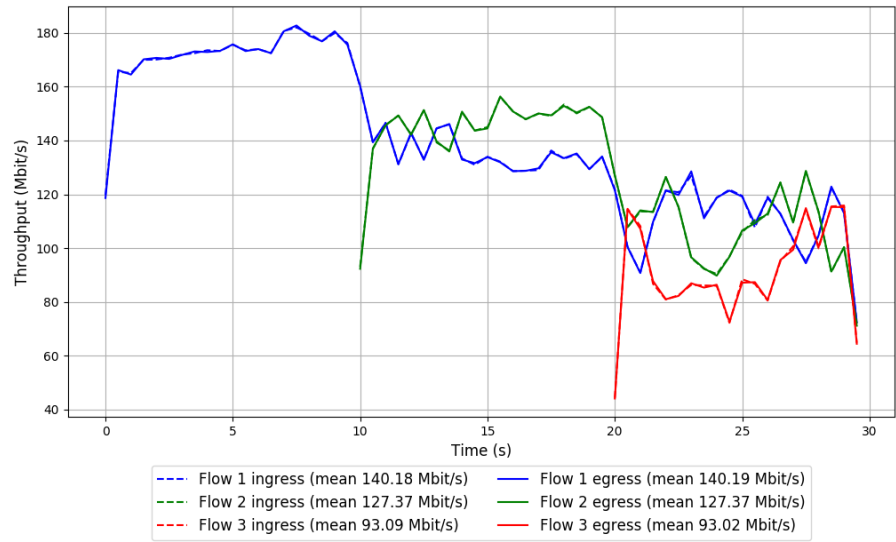
-- Flow 3:

Average throughput: 93.02 Mbit/s

95th percentile per-packet one-way delay: 2.425 ms

Loss rate: 0.07%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2017-09-18 09:32:42

End at: 2017-09-18 09:33:12

Local clock offset: -1.749 ms

Remote clock offset: 1.298 ms

Below is generated by plot.py at 2017-09-18 14:37:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 259.47 Mbit/s

95th percentile per-packet one-way delay: 2.286 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 144.04 Mbit/s

95th percentile per-packet one-way delay: 2.283 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 124.82 Mbit/s

95th percentile per-packet one-way delay: 2.284 ms

Loss rate: 0.02%

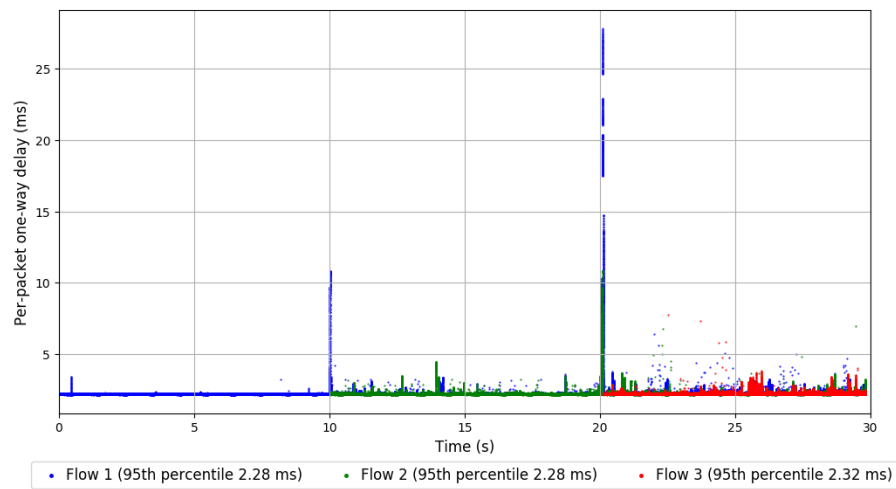
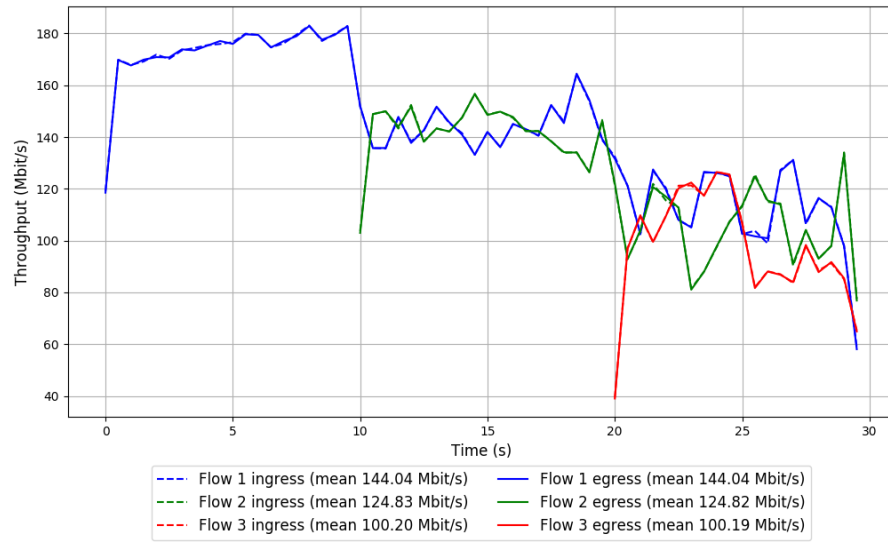
-- Flow 3:

Average throughput: 100.19 Mbit/s

95th percentile per-packet one-way delay: 2.316 ms

Loss rate: 0.03%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2017-09-18 09:47:00

End at: 2017-09-18 09:47:30

Local clock offset: -1.753 ms

Remote clock offset: 1.49 ms

Below is generated by plot.py at 2017-09-18 14:37:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 254.36 Mbit/s

95th percentile per-packet one-way delay: 2.309 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 142.92 Mbit/s

95th percentile per-packet one-way delay: 2.293 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 123.15 Mbit/s

95th percentile per-packet one-way delay: 2.349 ms

Loss rate: 0.03%

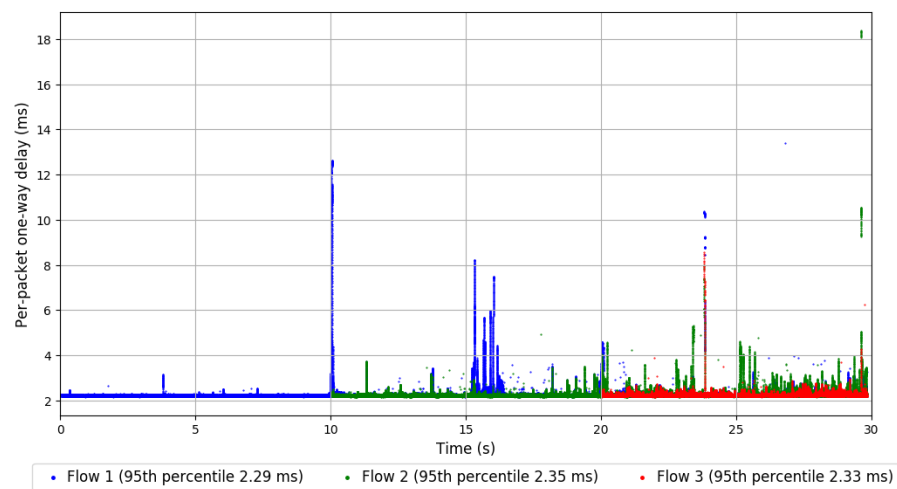
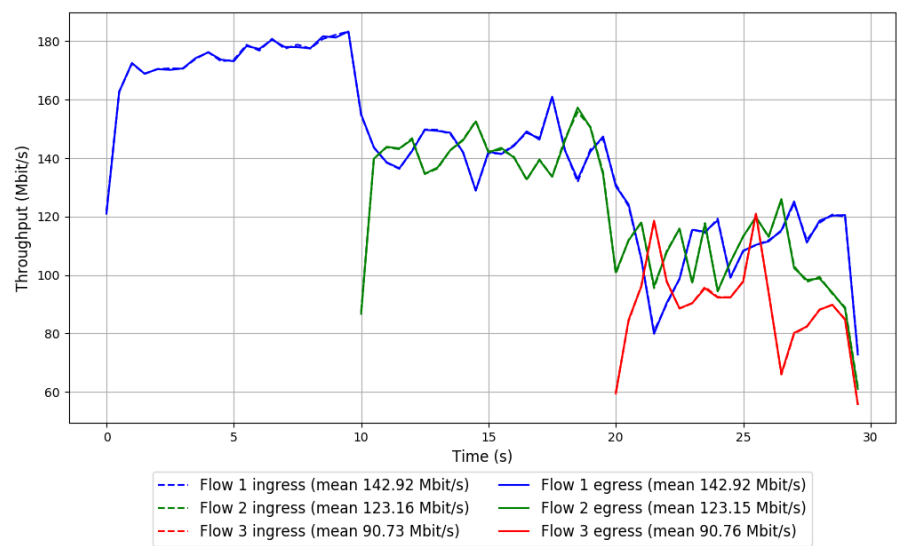
-- Flow 3:

Average throughput: 90.76 Mbit/s

95th percentile per-packet one-way delay: 2.332 ms

Loss rate: 0.02%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2017-09-18 10:01:16

End at: 2017-09-18 10:01:46

Local clock offset: -1.766 ms

Remote clock offset: 1.617 ms

Below is generated by plot.py at 2017-09-18 14:37:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 253.67 Mbit/s

95th percentile per-packet one-way delay: 2.390 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 142.74 Mbit/s

95th percentile per-packet one-way delay: 2.383 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 122.55 Mbit/s

95th percentile per-packet one-way delay: 2.399 ms

Loss rate: 0.03%

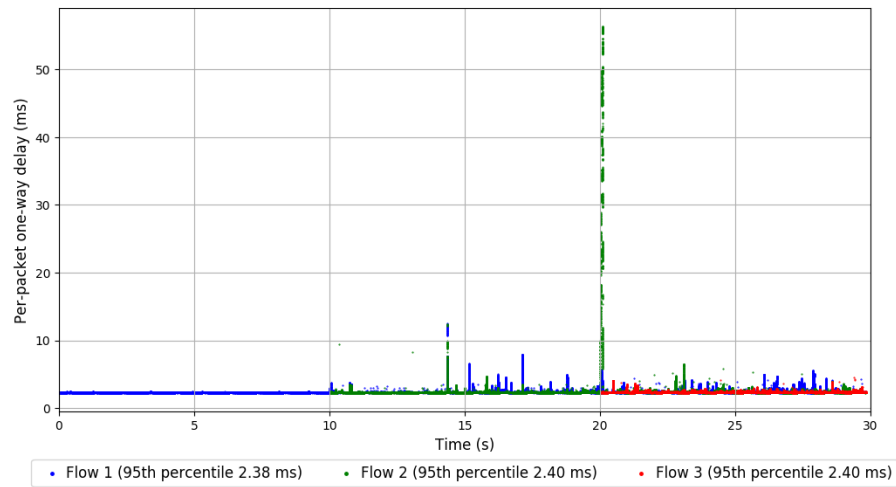
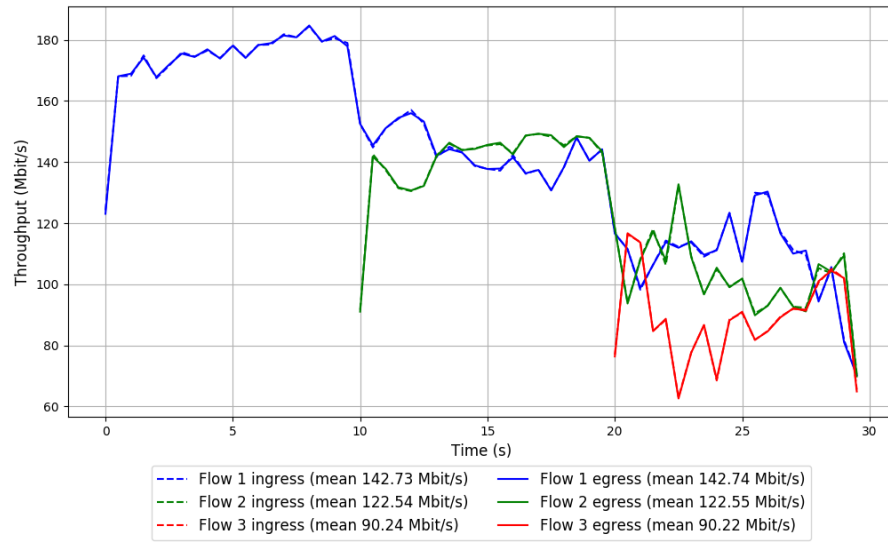
-- Flow 3:

Average throughput: 90.22 Mbit/s

95th percentile per-packet one-way delay: 2.402 ms

Loss rate: 0.07%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2017-09-18 10:15:39

End at: 2017-09-18 10:16:09

Local clock offset: -1.993 ms

Remote clock offset: 1.53 ms

Below is generated by plot.py at 2017-09-18 14:37:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 254.97 Mbit/s

95th percentile per-packet one-way delay: 2.317 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 141.46 Mbit/s

95th percentile per-packet one-way delay: 2.311 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 126.93 Mbit/s

95th percentile per-packet one-way delay: 2.336 ms

Loss rate: 0.05%

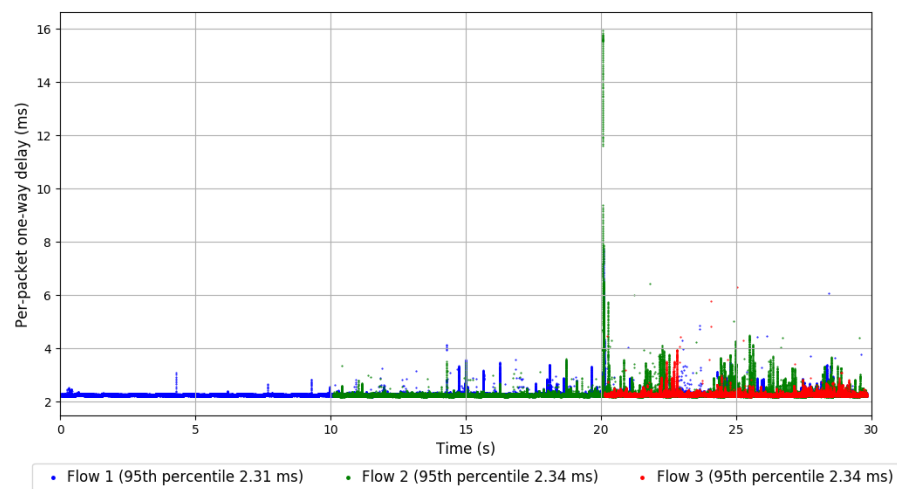
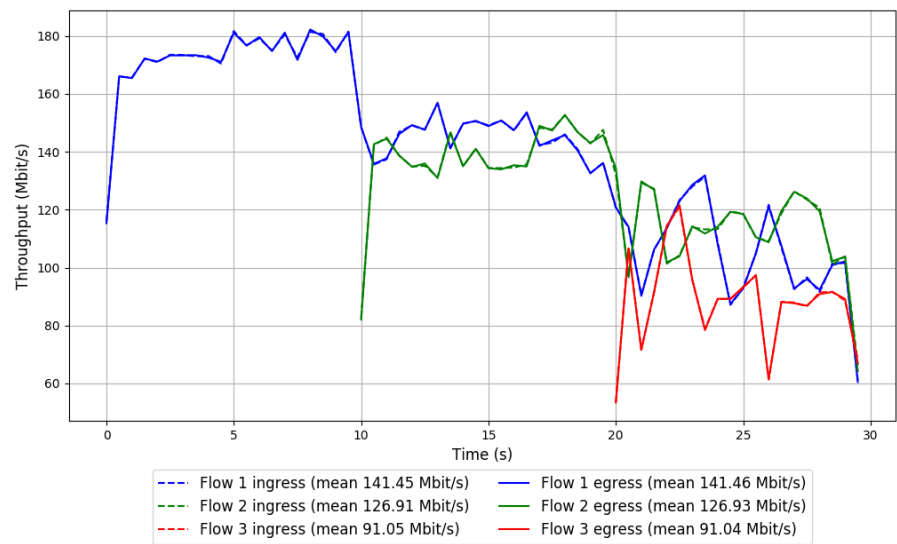
-- Flow 3:

Average throughput: 91.04 Mbit/s

95th percentile per-packet one-way delay: 2.337 ms

Loss rate: 0.08%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2017-09-18 10:29:59

End at: 2017-09-18 10:30:29

Local clock offset: -1.982 ms

Remote clock offset: 1.389 ms

Below is generated by plot.py at 2017-09-18 14:37:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 252.75 Mbit/s

95th percentile per-packet one-way delay: 2.368 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 141.56 Mbit/s

95th percentile per-packet one-way delay: 2.350 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 124.26 Mbit/s

95th percentile per-packet one-way delay: 2.393 ms

Loss rate: 0.01%

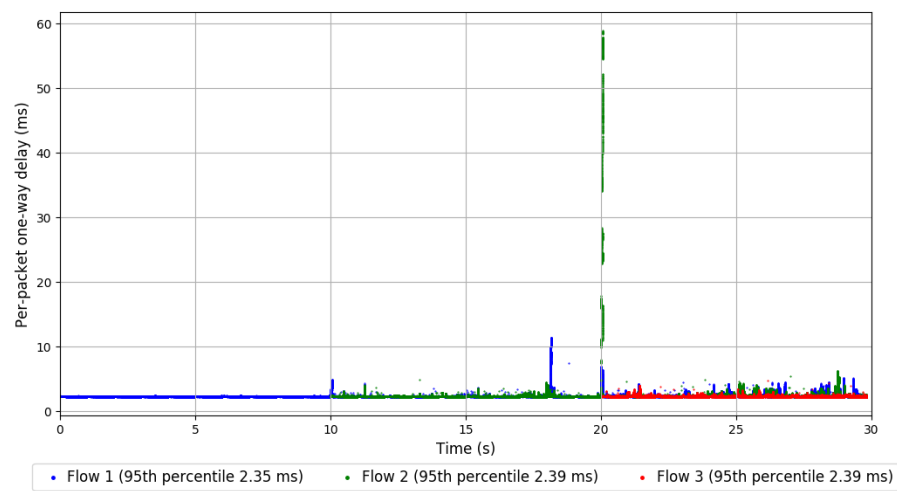
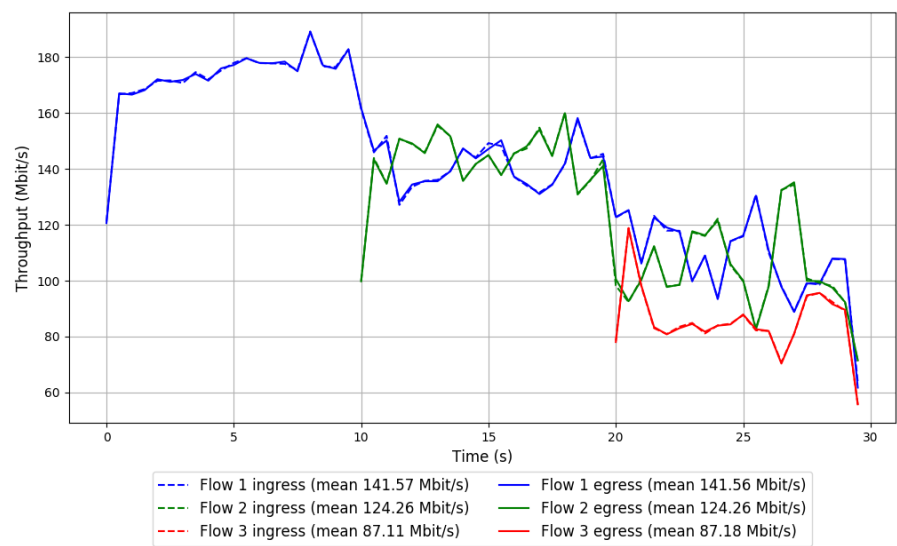
-- Flow 3:

Average throughput: 87.18 Mbit/s

95th percentile per-packet one-way delay: 2.389 ms

Loss rate: 0.01%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2017-09-18 10:44:15

End at: 2017-09-18 10:44:45

Local clock offset: -2.116 ms

Remote clock offset: 0.821 ms

Below is generated by plot.py at 2017-09-18 14:37:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 256.31 Mbit/s

95th percentile per-packet one-way delay: 2.352 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 141.63 Mbit/s

95th percentile per-packet one-way delay: 2.346 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 123.24 Mbit/s

95th percentile per-packet one-way delay: 2.350 ms

Loss rate: 0.04%

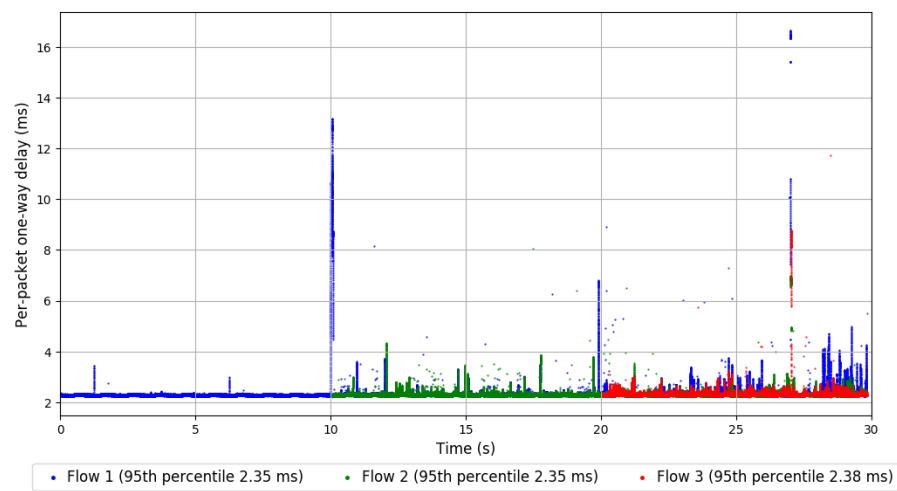
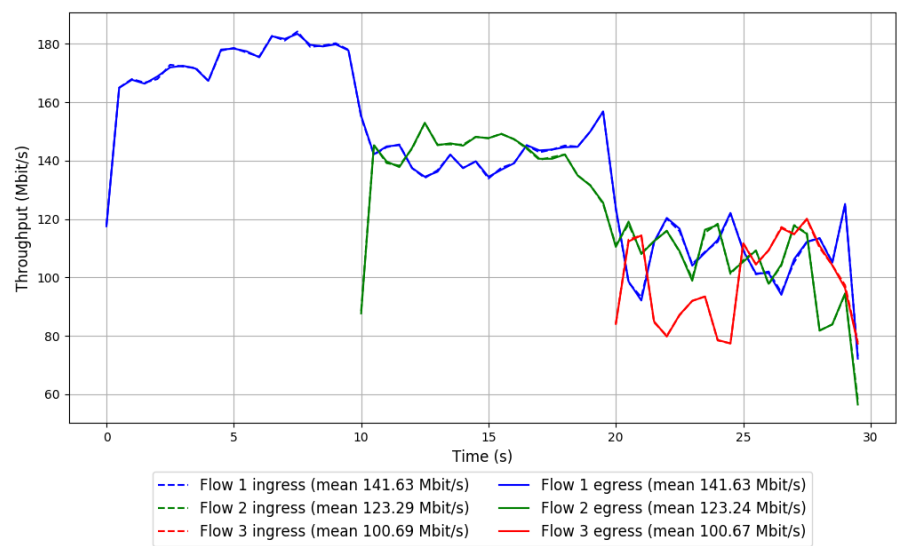
-- Flow 3:

Average throughput: 100.67 Mbit/s

95th percentile per-packet one-way delay: 2.383 ms

Loss rate: 0.08%

Run 10: Report of Indigo — Data Link



Run 1: Statistics of LEDBAT

Start at: 2017-09-18 08:25:05

End at: 2017-09-18 08:25:35

Local clock offset: -1.916 ms

Remote clock offset: 0.269 ms

Below is generated by plot.py at 2017-09-18 14:40:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 647.60 Mbit/s

95th percentile per-packet one-way delay: 17.112 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 385.84 Mbit/s

95th percentile per-packet one-way delay: 5.182 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 273.23 Mbit/s

95th percentile per-packet one-way delay: 23.473 ms

Loss rate: 0.01%

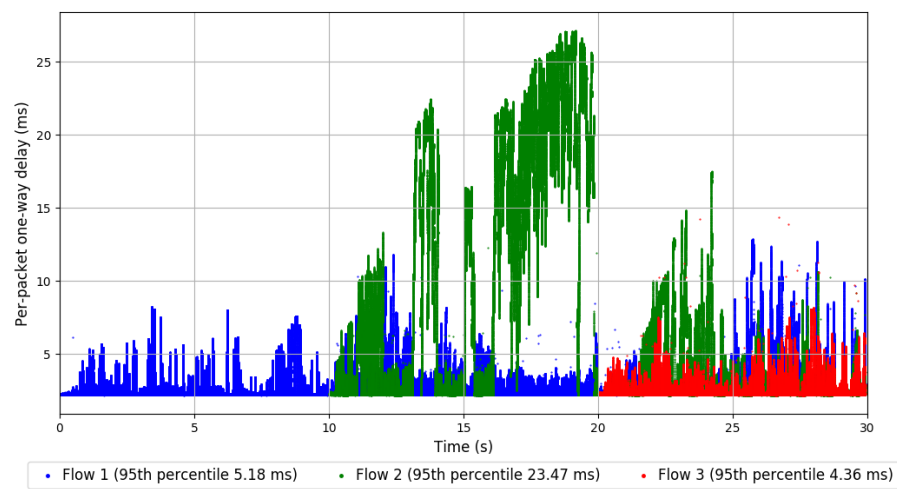
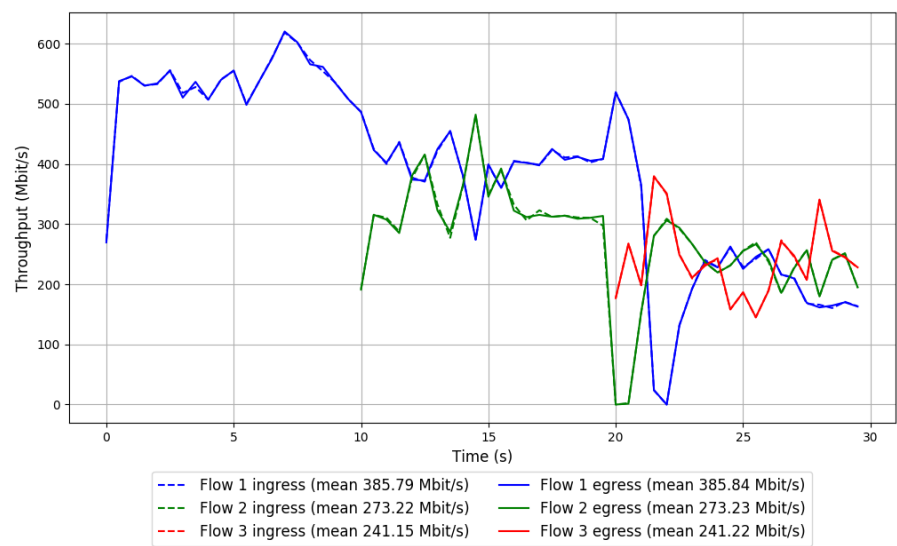
-- Flow 3:

Average throughput: 241.22 Mbit/s

95th percentile per-packet one-way delay: 4.364 ms

Loss rate: 0.02%

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2017-09-18 08:39:22

End at: 2017-09-18 08:39:52

Local clock offset: -1.862 ms

Remote clock offset: 0.446 ms

Below is generated by plot.py at 2017-09-18 14:40:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 648.37 Mbit/s

95th percentile per-packet one-way delay: 5.946 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 385.16 Mbit/s

95th percentile per-packet one-way delay: 5.608 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 273.31 Mbit/s

95th percentile per-packet one-way delay: 6.137 ms

Loss rate: 0.01%

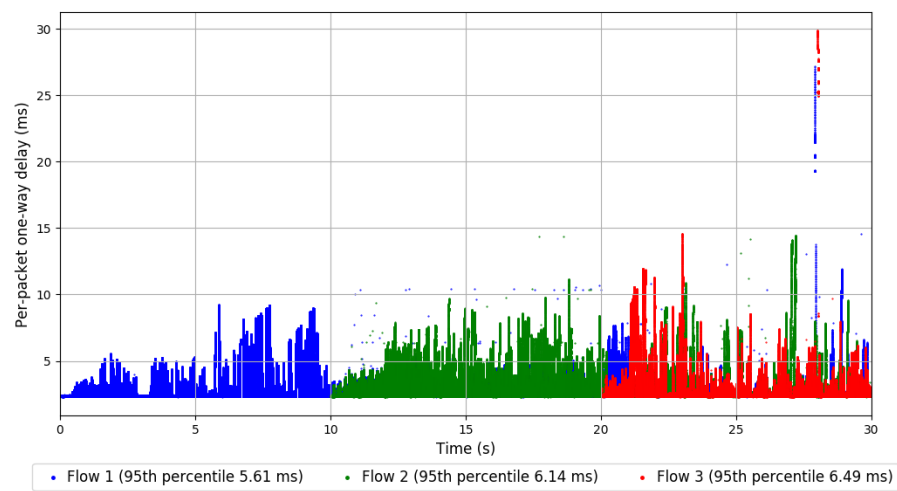
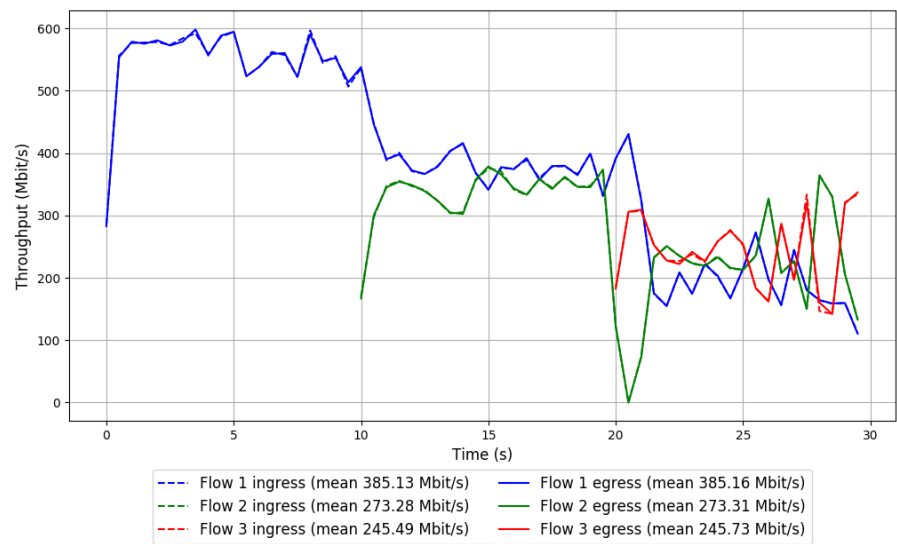
-- Flow 3:

Average throughput: 245.73 Mbit/s

95th percentile per-packet one-way delay: 6.488 ms

Loss rate: 0.00%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2017-09-18 08:53:38

End at: 2017-09-18 08:54:08

Local clock offset: -1.935 ms

Remote clock offset: 0.819 ms

Below is generated by plot.py at 2017-09-18 14:44:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 639.33 Mbit/s

95th percentile per-packet one-way delay: 8.394 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 369.63 Mbit/s

95th percentile per-packet one-way delay: 9.152 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 293.13 Mbit/s

95th percentile per-packet one-way delay: 4.077 ms

Loss rate: 0.07%

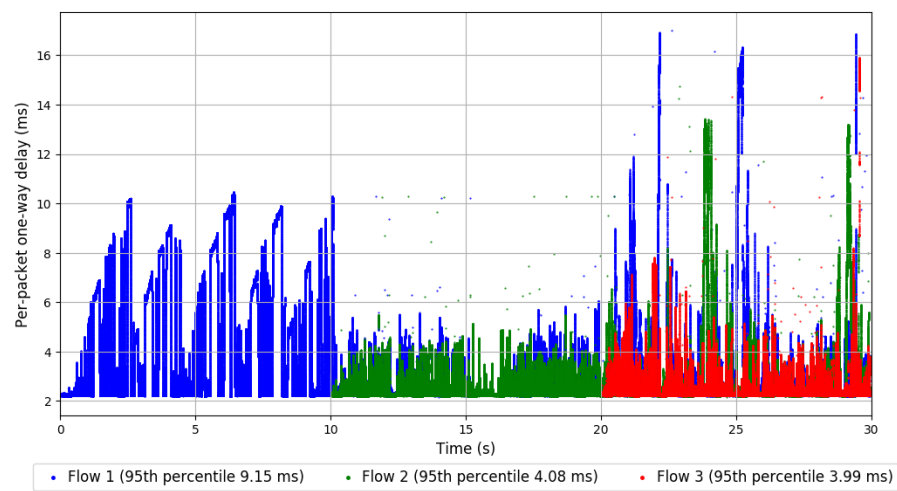
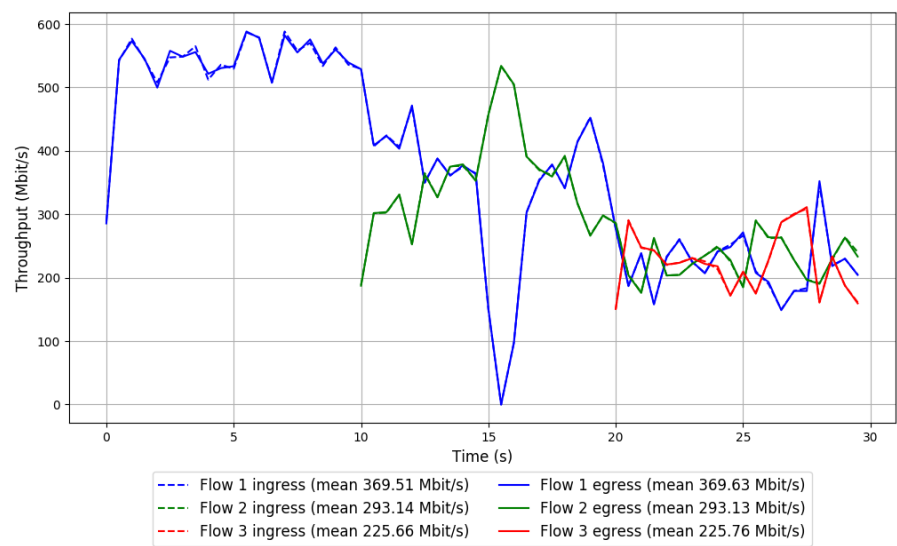
-- Flow 3:

Average throughput: 225.76 Mbit/s

95th percentile per-packet one-way delay: 3.987 ms

Loss rate: 0.05%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2017-09-18 09:07:53

End at: 2017-09-18 09:08:23

Local clock offset: -1.914 ms

Remote clock offset: 1.021 ms

Below is generated by plot.py at 2017-09-18 14:44:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 642.77 Mbit/s

95th percentile per-packet one-way delay: 4.539 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 384.50 Mbit/s

95th percentile per-packet one-way delay: 4.479 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 274.87 Mbit/s

95th percentile per-packet one-way delay: 5.279 ms

Loss rate: 0.01%

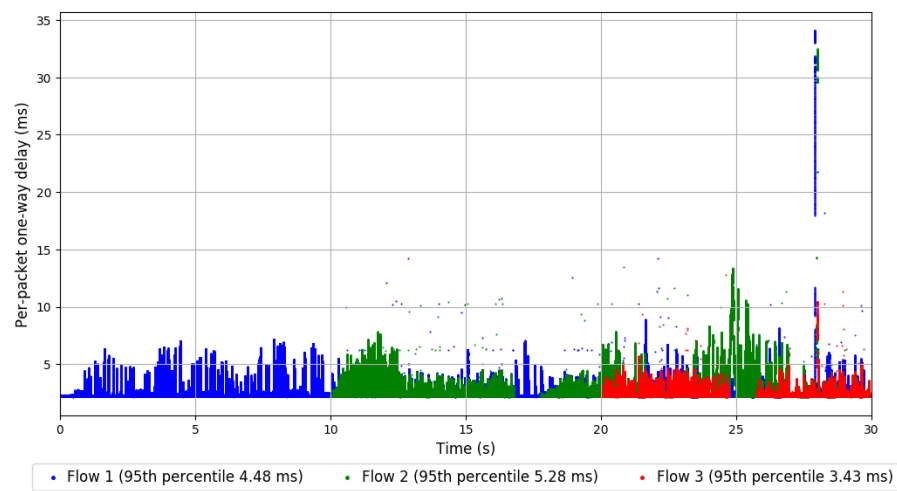
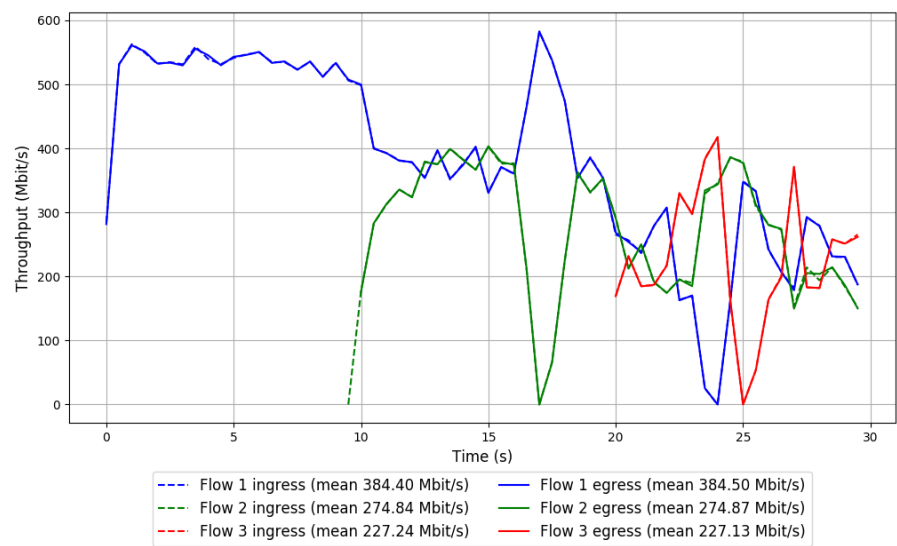
-- Flow 3:

Average throughput: 227.13 Mbit/s

95th percentile per-packet one-way delay: 3.429 ms

Loss rate: 0.09%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2017-09-18 09:22:08

End at: 2017-09-18 09:22:38

Local clock offset: -1.63 ms

Remote clock offset: 1.113 ms

Below is generated by plot.py at 2017-09-18 14:45:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 649.94 Mbit/s

95th percentile per-packet one-way delay: 5.052 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 371.64 Mbit/s

95th percentile per-packet one-way delay: 5.817 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 294.03 Mbit/s

95th percentile per-packet one-way delay: 3.966 ms

Loss rate: 0.02%

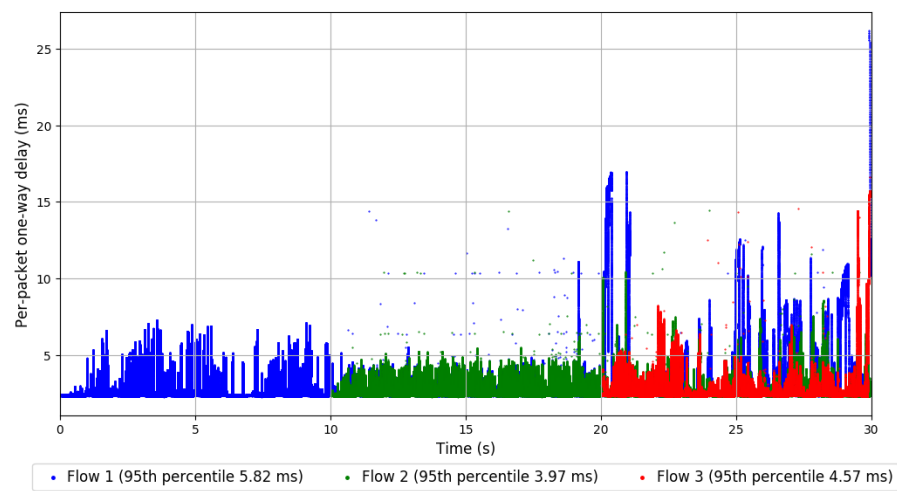
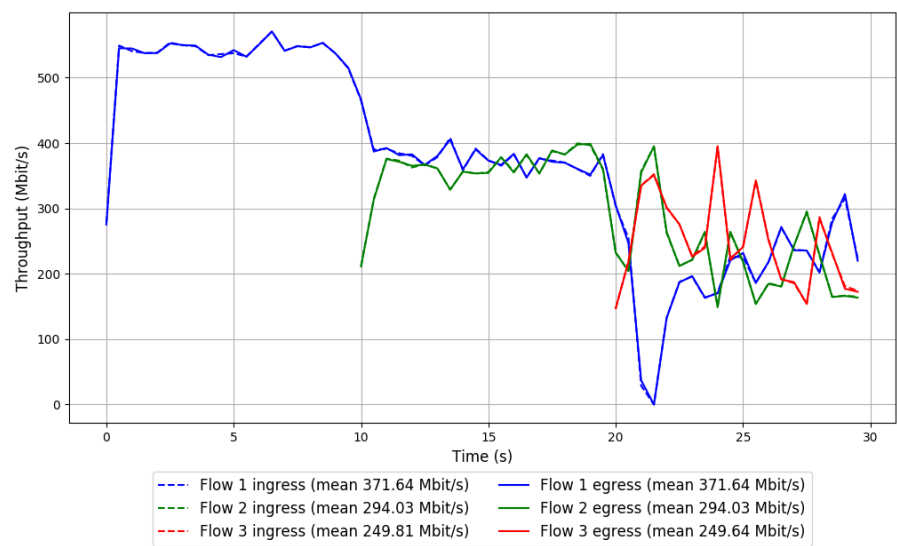
-- Flow 3:

Average throughput: 249.64 Mbit/s

95th percentile per-packet one-way delay: 4.571 ms

Loss rate: 0.13%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2017-09-18 09:36:27

End at: 2017-09-18 09:36:57

Local clock offset: -1.665 ms

Remote clock offset: 1.359 ms

Below is generated by plot.py at 2017-09-18 14:45:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 622.98 Mbit/s

95th percentile per-packet one-way delay: 17.870 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 371.68 Mbit/s

95th percentile per-packet one-way delay: 21.475 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 265.07 Mbit/s

95th percentile per-packet one-way delay: 6.795 ms

Loss rate: 0.03%

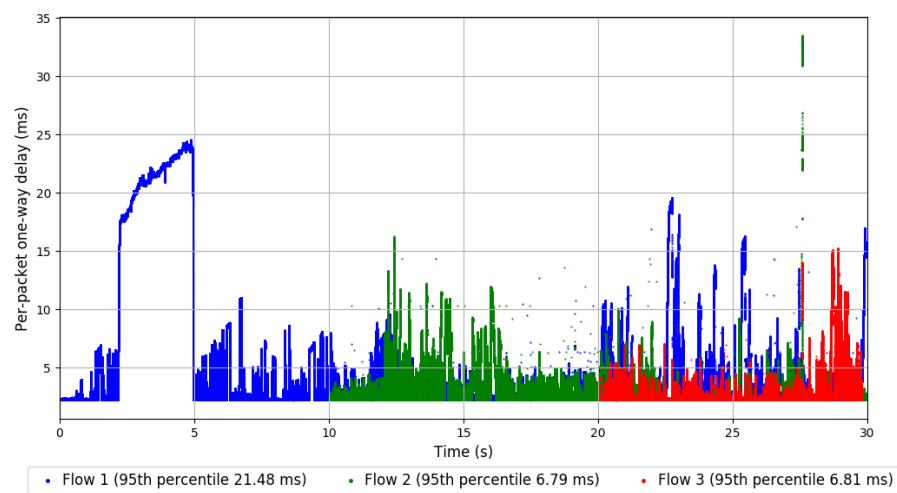
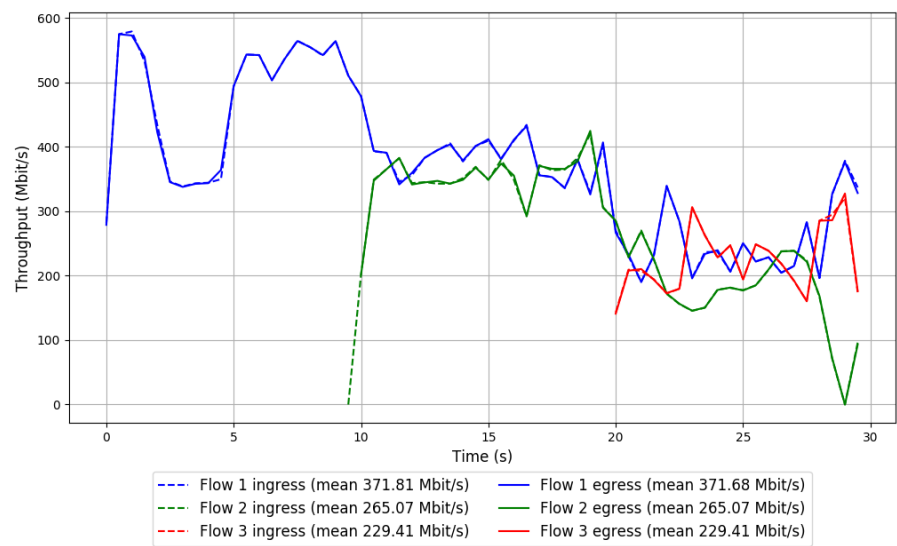
-- Flow 3:

Average throughput: 229.41 Mbit/s

95th percentile per-packet one-way delay: 6.812 ms

Loss rate: 0.00%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2017-09-18 09:50:46

End at: 2017-09-18 09:51:16

Local clock offset: -1.692 ms

Remote clock offset: 1.516 ms

Below is generated by plot.py at 2017-09-18 14:46:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 617.38 Mbit/s

95th percentile per-packet one-way delay: 18.049 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 373.02 Mbit/s

95th percentile per-packet one-way delay: 5.050 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 251.22 Mbit/s

95th percentile per-packet one-way delay: 22.328 ms

Loss rate: 0.03%

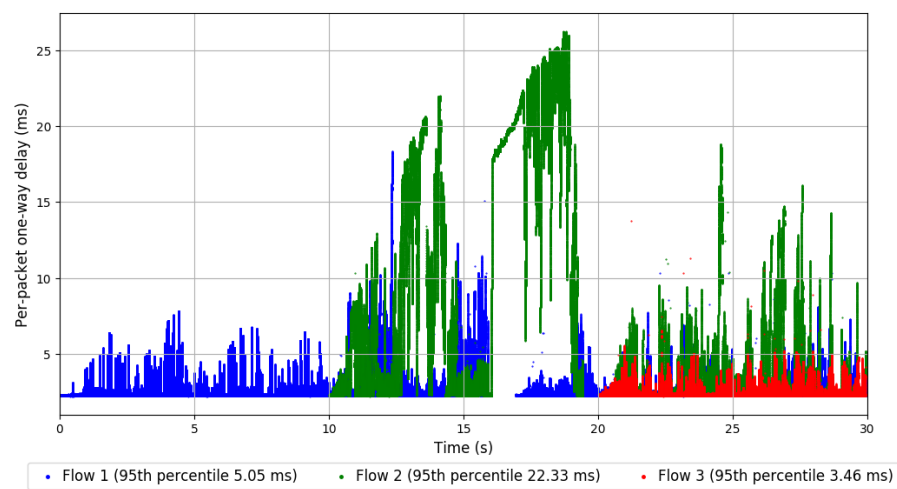
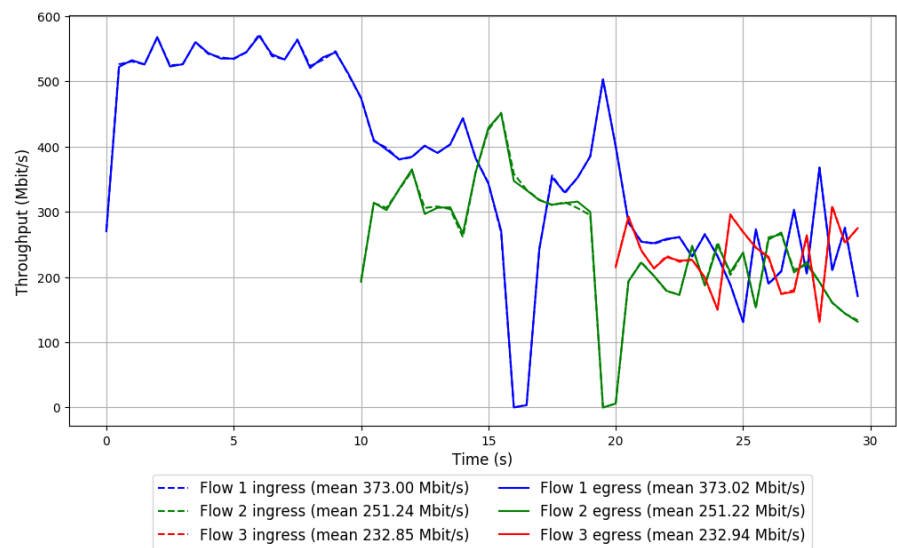
-- Flow 3:

Average throughput: 232.94 Mbit/s

95th percentile per-packet one-way delay: 3.465 ms

Loss rate: 0.02%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2017-09-18 10:05:02

End at: 2017-09-18 10:05:32

Local clock offset: -1.851 ms

Remote clock offset: 1.653 ms

Below is generated by plot.py at 2017-09-18 14:46:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 654.35 Mbit/s

95th percentile per-packet one-way delay: 4.848 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 385.31 Mbit/s

95th percentile per-packet one-way delay: 5.450 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 278.09 Mbit/s

95th percentile per-packet one-way delay: 3.892 ms

Loss rate: 0.02%

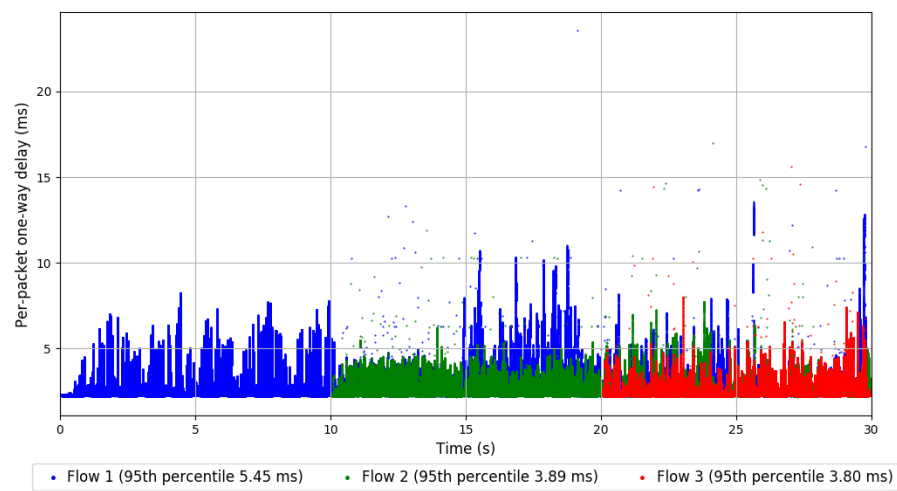
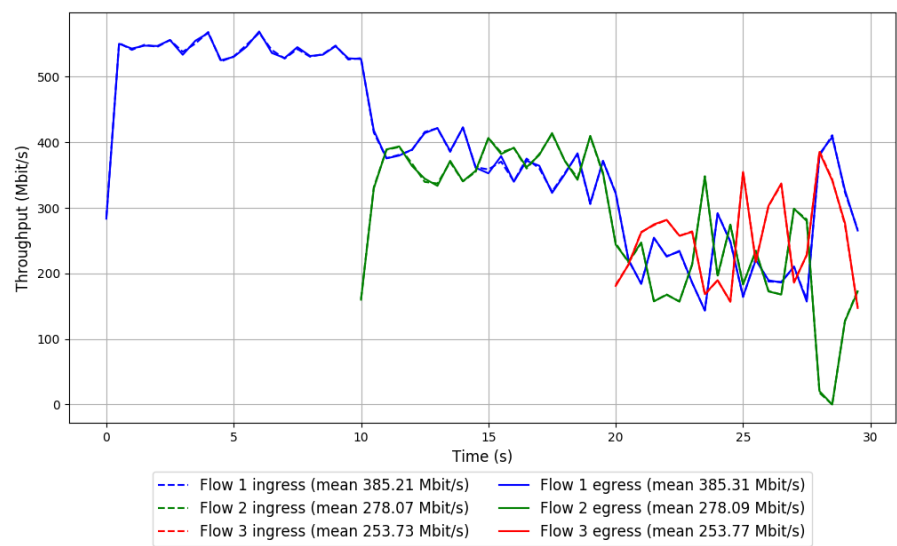
-- Flow 3:

Average throughput: 253.77 Mbit/s

95th percentile per-packet one-way delay: 3.803 ms

Loss rate: 0.04%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2017-09-18 10:19:24

End at: 2017-09-18 10:19:54

Local clock offset: -1.914 ms

Remote clock offset: 1.469 ms

Below is generated by plot.py at 2017-09-18 14:50:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 631.30 Mbit/s

95th percentile per-packet one-way delay: 7.351 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 356.32 Mbit/s

95th percentile per-packet one-way delay: 4.954 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 296.40 Mbit/s

95th percentile per-packet one-way delay: 10.818 ms

Loss rate: 0.03%

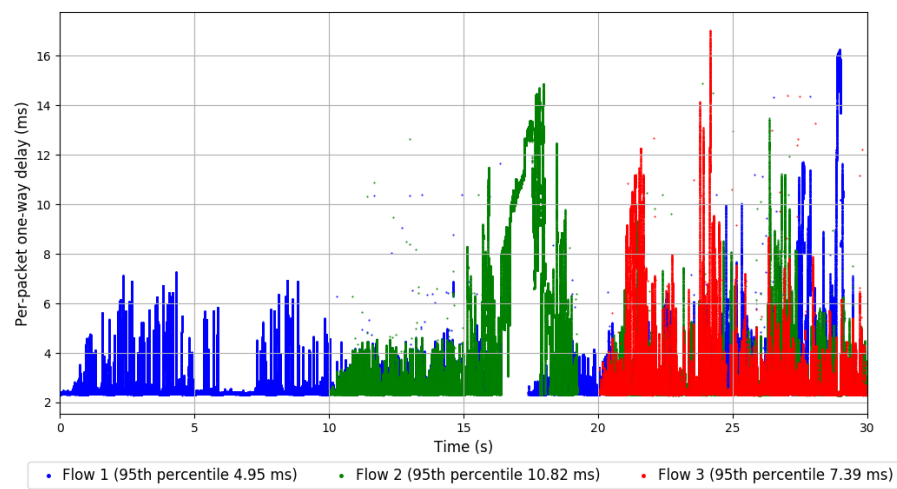
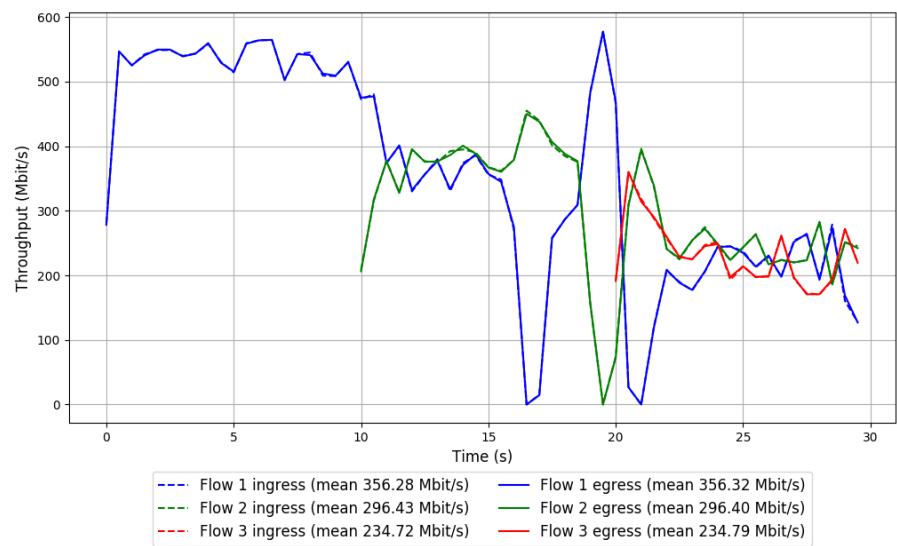
-- Flow 3:

Average throughput: 234.79 Mbit/s

95th percentile per-packet one-way delay: 7.393 ms

Loss rate: 0.03%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2017-09-18 10:33:44

End at: 2017-09-18 10:34:14

Local clock offset: -1.999 ms

Remote clock offset: 1.283 ms

Below is generated by plot.py at 2017-09-18 14:50:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 652.89 Mbit/s

95th percentile per-packet one-way delay: 4.808 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 376.33 Mbit/s

95th percentile per-packet one-way delay: 4.694 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 282.30 Mbit/s

95th percentile per-packet one-way delay: 3.951 ms

Loss rate: 0.04%

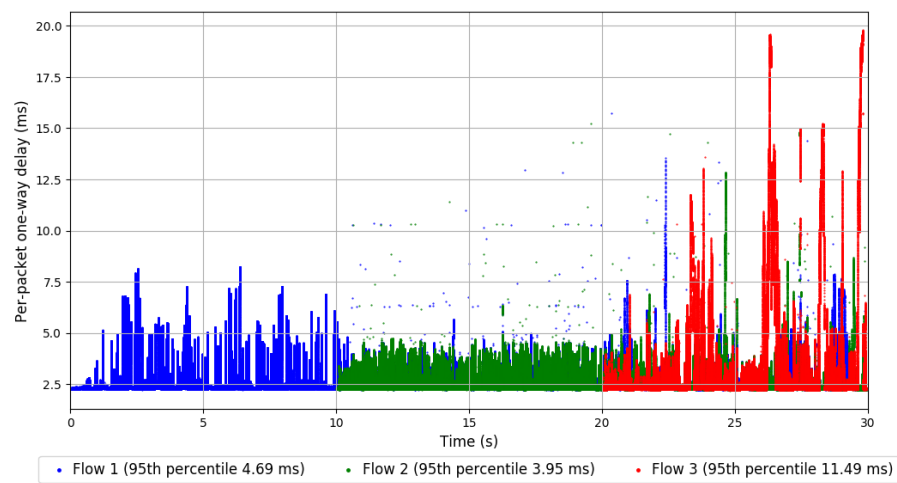
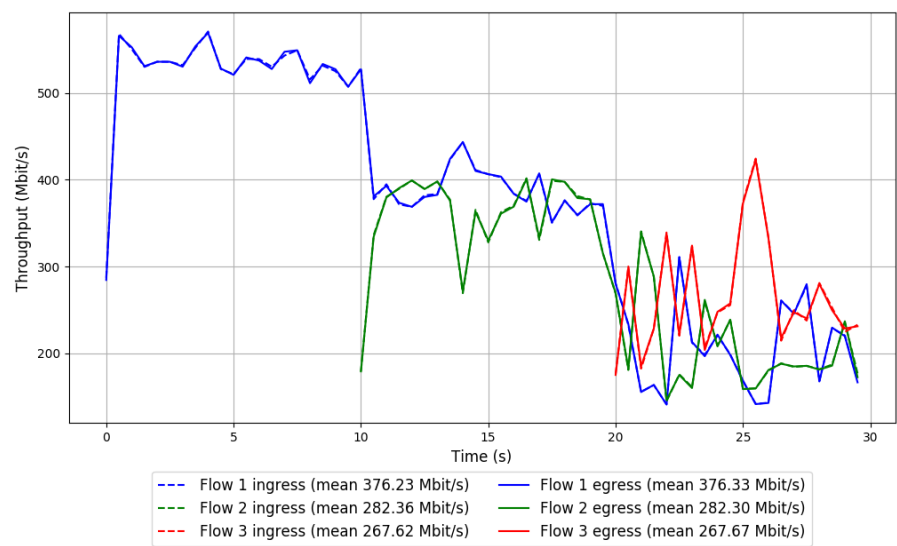
-- Flow 3:

Average throughput: 267.67 Mbit/s

95th percentile per-packet one-way delay: 11.495 ms

Loss rate: 0.05%

Run 10: Report of LEDBAT — Data Link

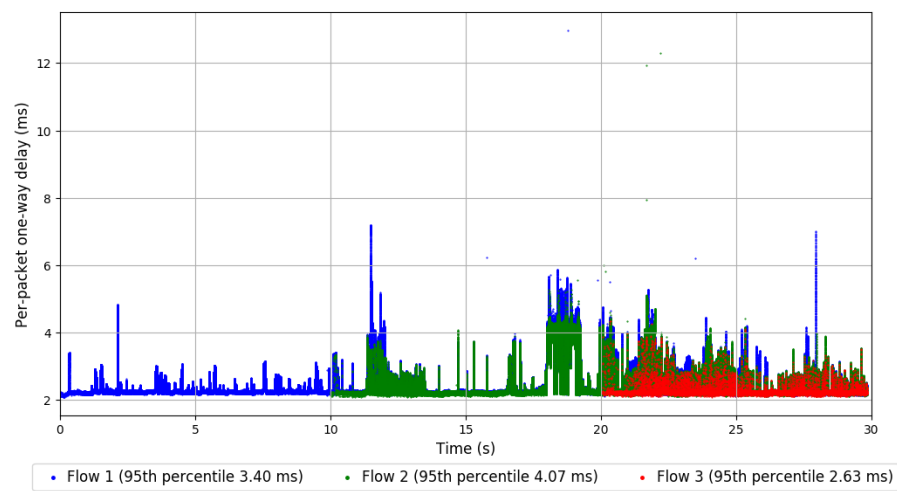
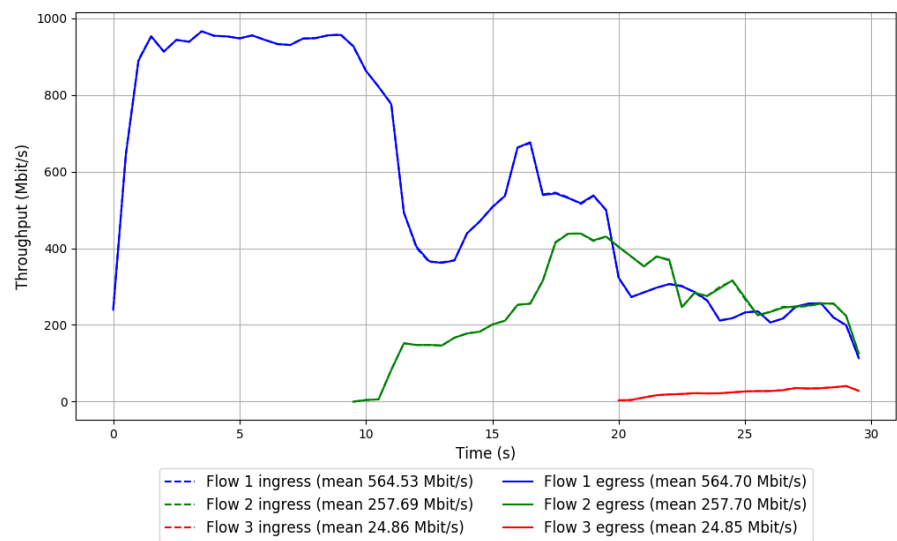


```
Run 1: Statistics of PCC

Start at: 2017-09-18 08:32:33
End at: 2017-09-18 08:33:03
Local clock offset: -1.931 ms
Remote clock offset: 0.384 ms

# Below is generated by plot.py at 2017-09-18 14:54:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 744.24 Mbit/s
95th percentile per-packet one-way delay: 3.792 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 564.70 Mbit/s
95th percentile per-packet one-way delay: 3.402 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 257.70 Mbit/s
95th percentile per-packet one-way delay: 4.070 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 24.85 Mbit/s
95th percentile per-packet one-way delay: 2.626 ms
Loss rate: 0.08%
```


Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2017-09-18 08:46:41

End at: 2017-09-18 08:47:11

Local clock offset: -1.872 ms

Remote clock offset: 0.66 ms

Below is generated by plot.py at 2017-09-18 14:56:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 822.20 Mbit/s

95th percentile per-packet one-way delay: 4.022 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 535.61 Mbit/s

95th percentile per-packet one-way delay: 3.977 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 335.09 Mbit/s

95th percentile per-packet one-way delay: 4.016 ms

Loss rate: 0.01%

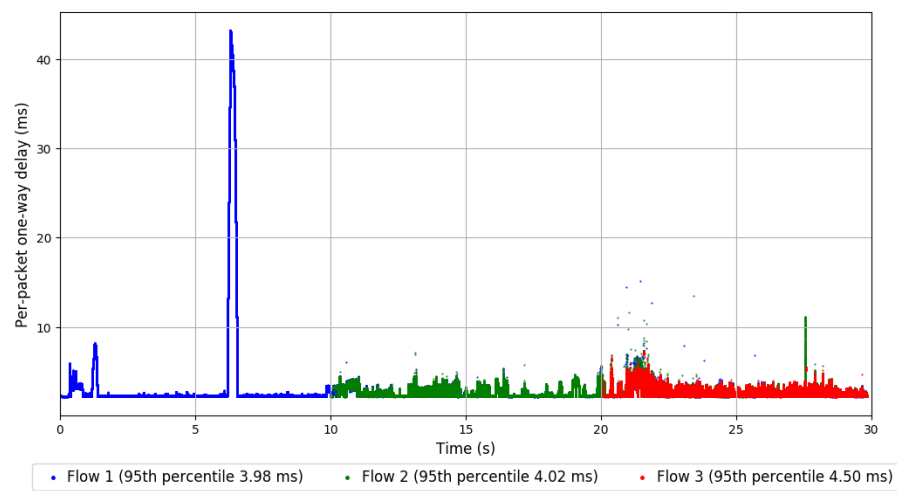
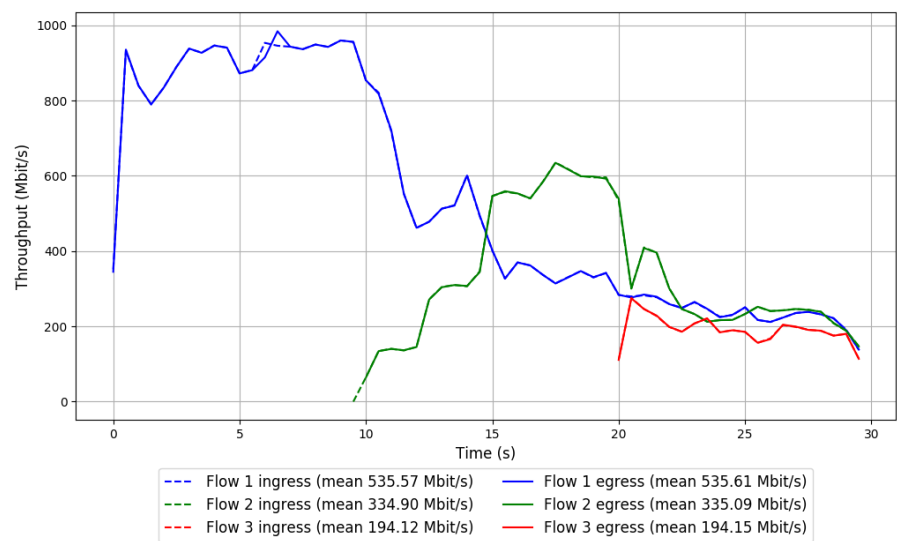
-- Flow 3:

Average throughput: 194.15 Mbit/s

95th percentile per-packet one-way delay: 4.503 ms

Loss rate: 0.04%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2017-09-18 09:00:58

End at: 2017-09-18 09:01:28

Local clock offset: -1.949 ms

Remote clock offset: 0.889 ms

Below is generated by plot.py at 2017-09-18 14:56:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 765.33 Mbit/s

95th percentile per-packet one-way delay: 4.399 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 533.32 Mbit/s

95th percentile per-packet one-way delay: 4.342 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 337.80 Mbit/s

95th percentile per-packet one-way delay: 4.456 ms

Loss rate: 0.02%

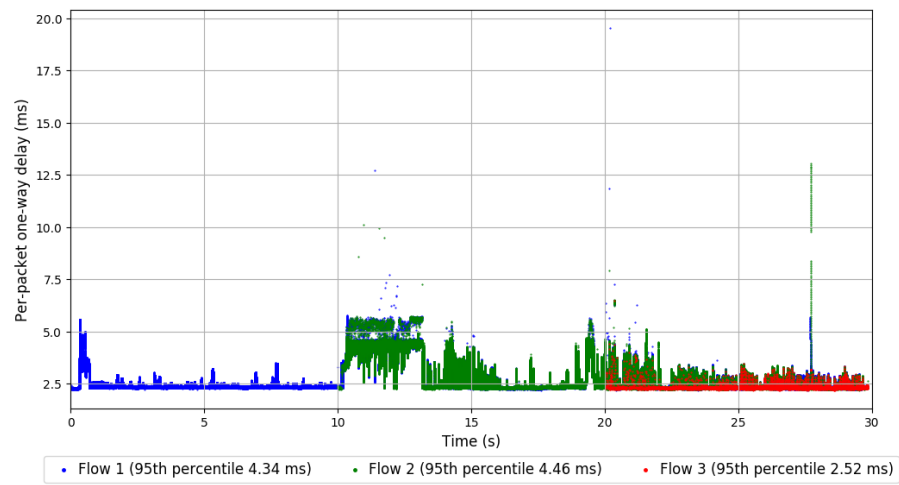
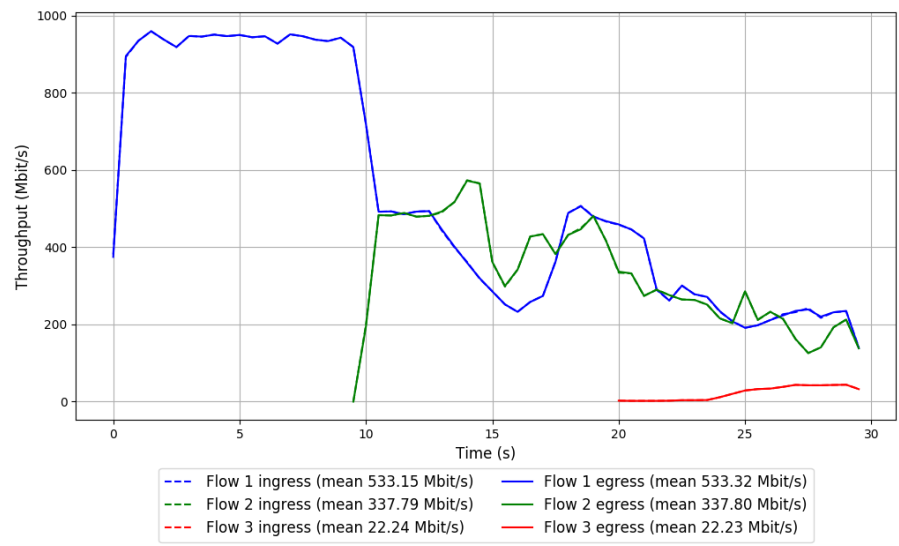
-- Flow 3:

Average throughput: 22.23 Mbit/s

95th percentile per-packet one-way delay: 2.520 ms

Loss rate: 0.11%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2017-09-18 09:15:13

End at: 2017-09-18 09:15:43

Local clock offset: -1.695 ms

Remote clock offset: 1.1 ms

Below is generated by plot.py at 2017-09-18 14:56:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 752.67 Mbit/s

95th percentile per-packet one-way delay: 3.517 ms

Loss rate: 0.64%

-- Flow 1:

Average throughput: 610.40 Mbit/s

95th percentile per-packet one-way delay: 3.550 ms

Loss rate: 0.78%

-- Flow 2:

Average throughput: 185.29 Mbit/s

95th percentile per-packet one-way delay: 3.388 ms

Loss rate: 0.03%

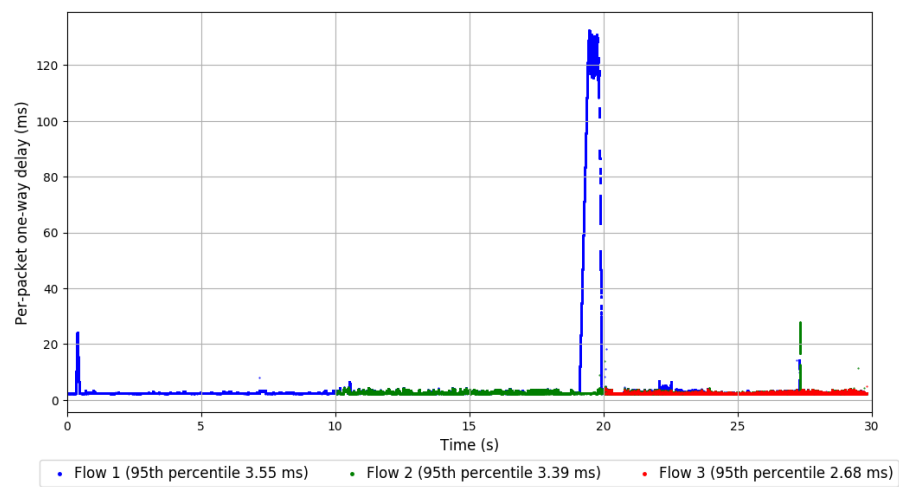
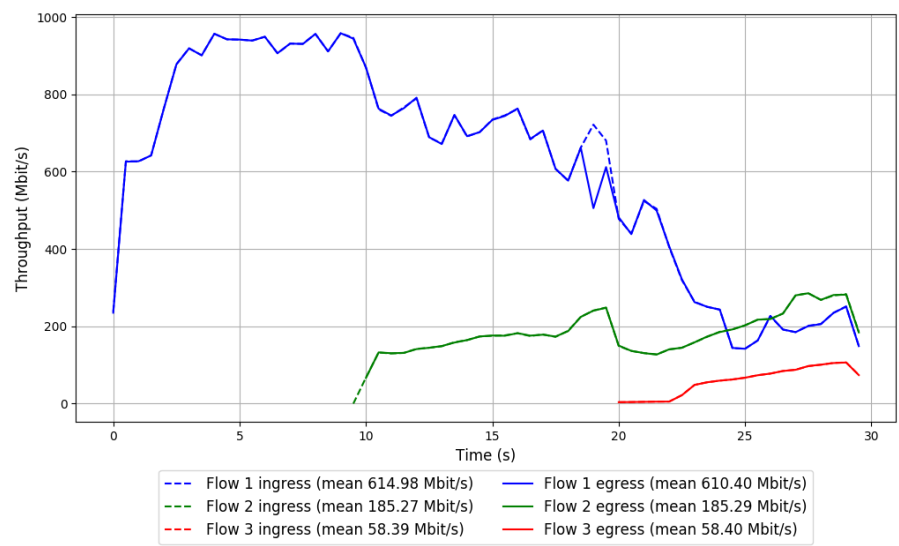
-- Flow 3:

Average throughput: 58.40 Mbit/s

95th percentile per-packet one-way delay: 2.677 ms

Loss rate: 0.09%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2017-09-18 09:29:33

End at: 2017-09-18 09:30:03

Local clock offset: -1.657 ms

Remote clock offset: 1.256 ms

Below is generated by plot.py at 2017-09-18 14:57:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 748.26 Mbit/s

95th percentile per-packet one-way delay: 3.045 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 635.83 Mbit/s

95th percentile per-packet one-way delay: 3.051 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 143.02 Mbit/s

95th percentile per-packet one-way delay: 3.066 ms

Loss rate: 0.03%

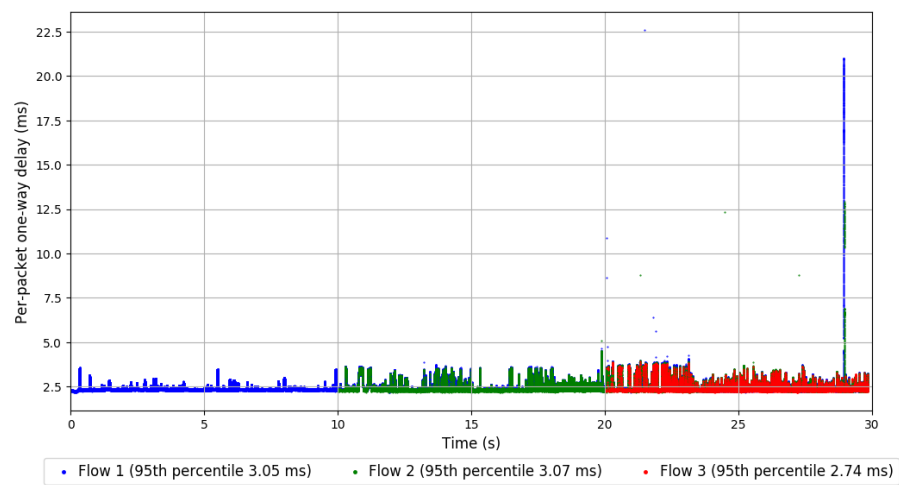
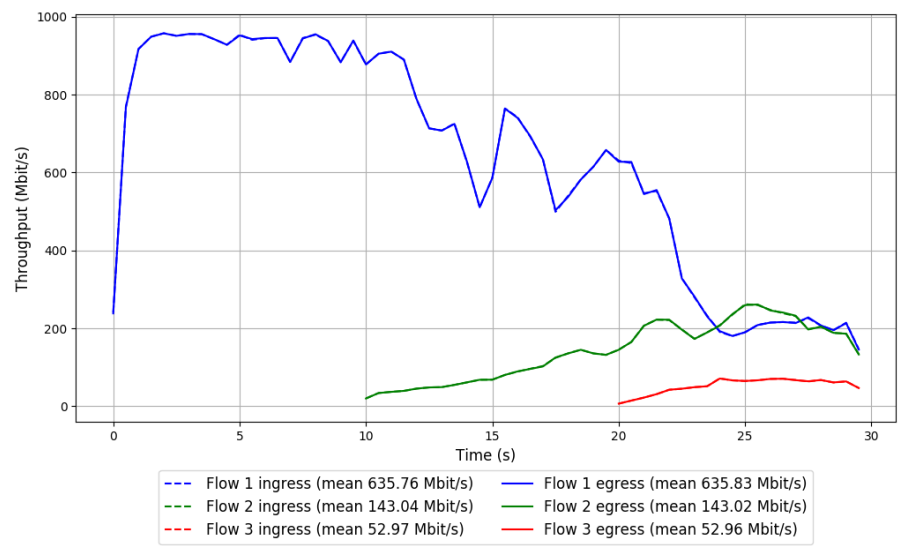
-- Flow 3:

Average throughput: 52.96 Mbit/s

95th percentile per-packet one-way delay: 2.744 ms

Loss rate: 0.06%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2017-09-18 09:43:52

End at: 2017-09-18 09:44:22

Local clock offset: -1.675 ms

Remote clock offset: 1.469 ms

Below is generated by plot.py at 2017-09-18 14:57:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 742.48 Mbit/s

95th percentile per-packet one-way delay: 56.510 ms

Loss rate: 1.53%

-- Flow 1:

Average throughput: 596.75 Mbit/s

95th percentile per-packet one-way delay: 84.911 ms

Loss rate: 1.89%

-- Flow 2:

Average throughput: 123.95 Mbit/s

95th percentile per-packet one-way delay: 3.481 ms

Loss rate: 0.04%

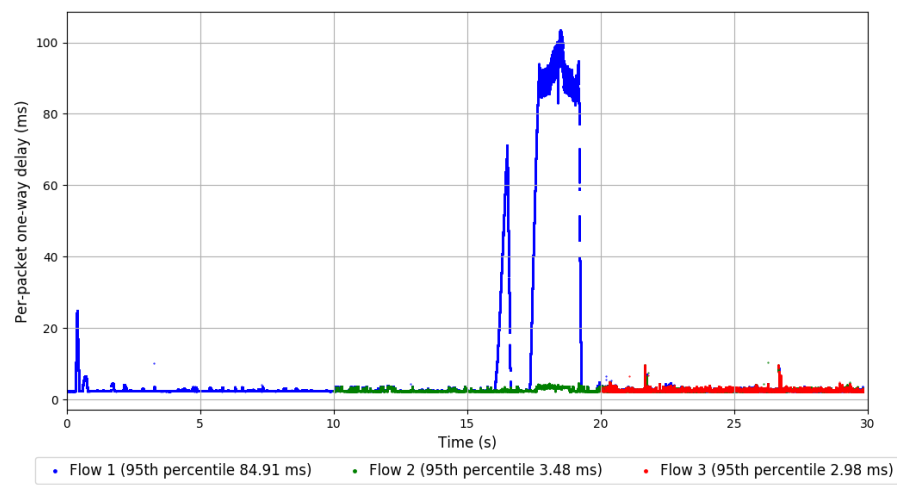
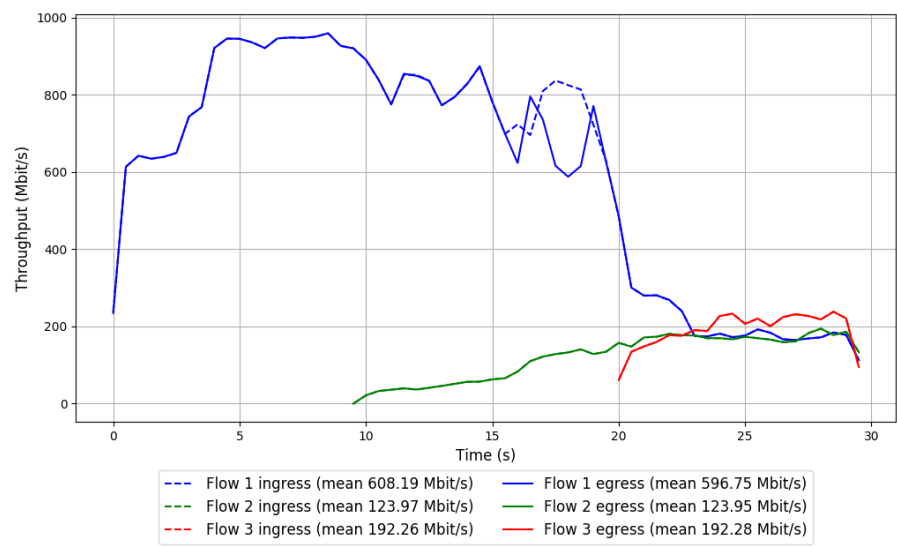
-- Flow 3:

Average throughput: 192.28 Mbit/s

95th percentile per-packet one-way delay: 2.976 ms

Loss rate: 0.03%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2017-09-18 09:58:10

End at: 2017-09-18 09:58:40

Local clock offset: -1.691 ms

Remote clock offset: 1.601 ms

Below is generated by plot.py at 2017-09-18 15:00:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 686.70 Mbit/s

95th percentile per-packet one-way delay: 48.700 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 502.49 Mbit/s

95th percentile per-packet one-way delay: 63.667 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 178.66 Mbit/s

95th percentile per-packet one-way delay: 3.481 ms

Loss rate: 0.00%

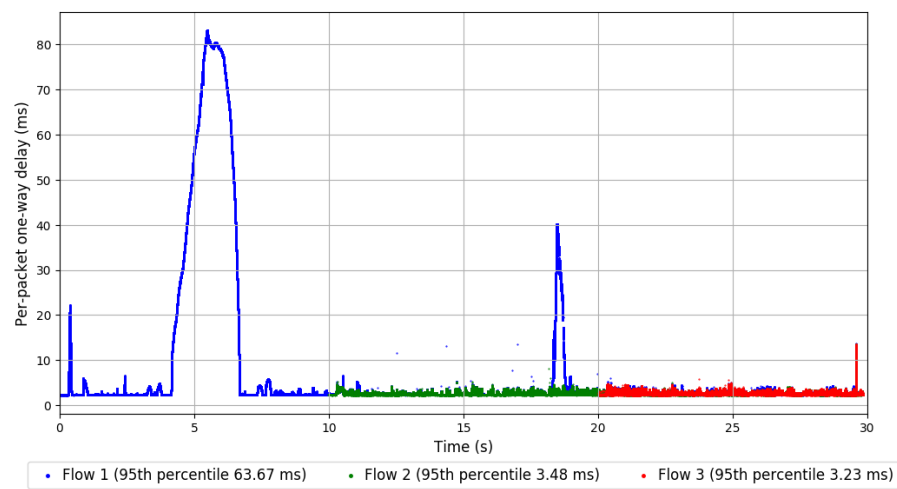
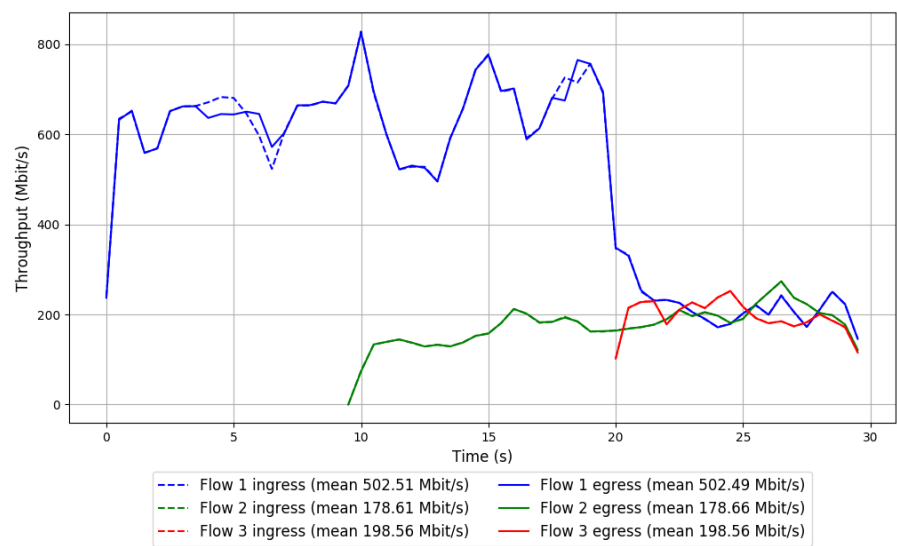
-- Flow 3:

Average throughput: 198.56 Mbit/s

95th percentile per-packet one-way delay: 3.226 ms

Loss rate: 0.04%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2017-09-18 10:12:29

End at: 2017-09-18 10:12:59

Local clock offset: -1.896 ms

Remote clock offset: 1.615 ms

Below is generated by plot.py at 2017-09-18 15:03:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 816.69 Mbit/s

95th percentile per-packet one-way delay: 4.089 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 595.90 Mbit/s

95th percentile per-packet one-way delay: 4.097 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 257.82 Mbit/s

95th percentile per-packet one-way delay: 4.108 ms

Loss rate: 0.02%

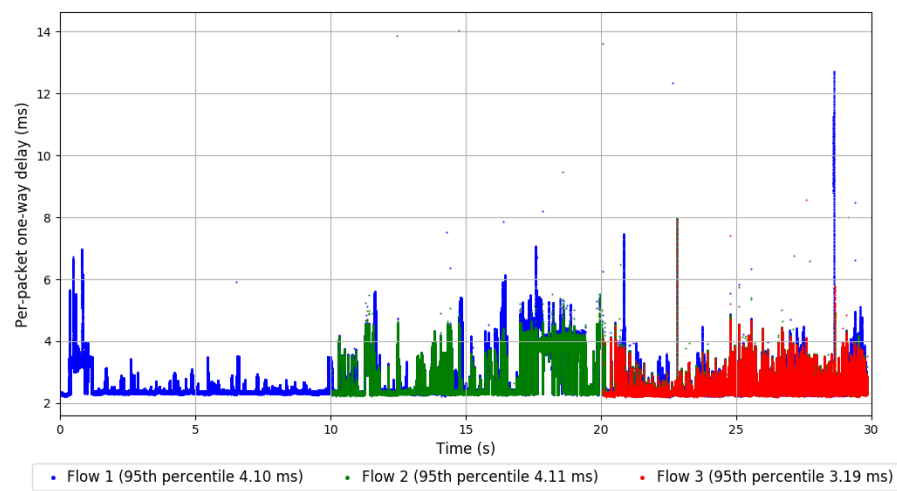
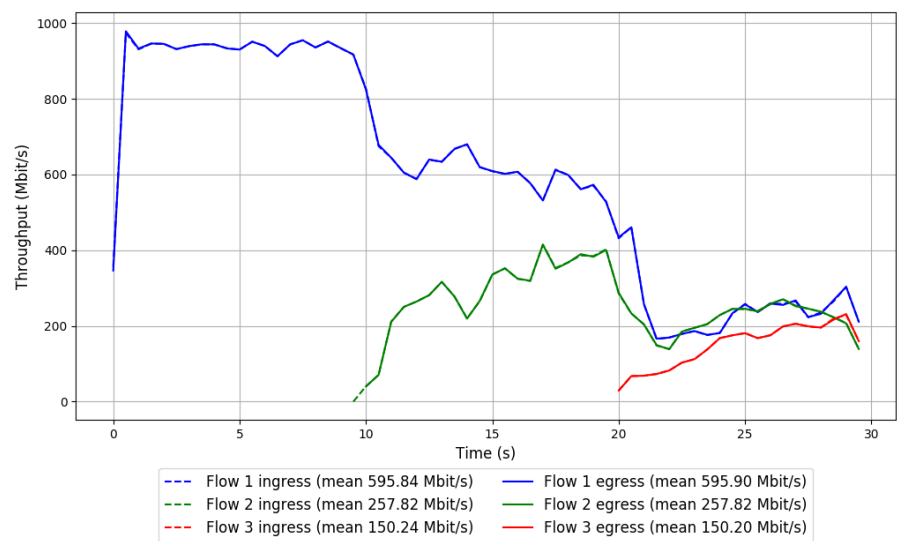
-- Flow 3:

Average throughput: 150.20 Mbit/s

95th percentile per-packet one-way delay: 3.194 ms

Loss rate: 0.07%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2017-09-18 10:26:50

End at: 2017-09-18 10:27:20

Local clock offset: -1.981 ms

Remote clock offset: 1.433 ms

Below is generated by plot.py at 2017-09-18 15:06:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 770.23 Mbit/s

95th percentile per-packet one-way delay: 89.735 ms

Loss rate: 4.10%

-- Flow 1:

Average throughput: 499.60 Mbit/s

95th percentile per-packet one-way delay: 91.231 ms

Loss rate: 6.17%

-- Flow 2:

Average throughput: 312.88 Mbit/s

95th percentile per-packet one-way delay: 4.512 ms

Loss rate: 0.02%

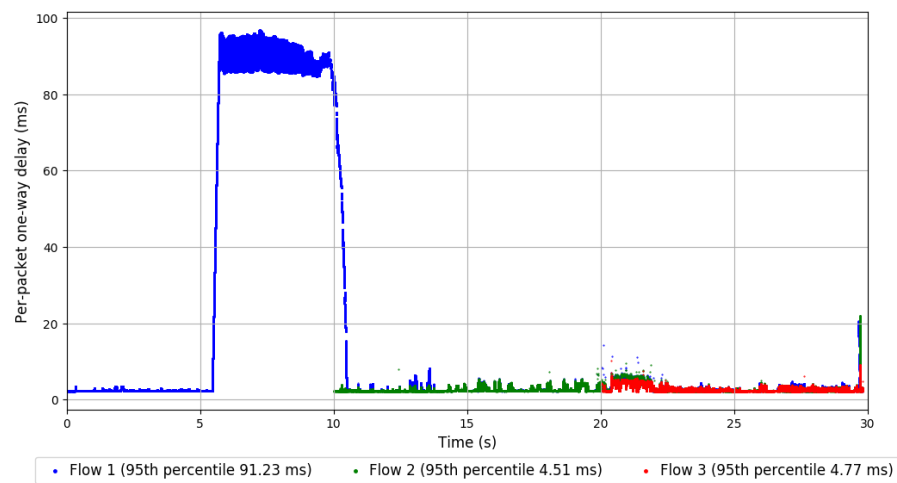
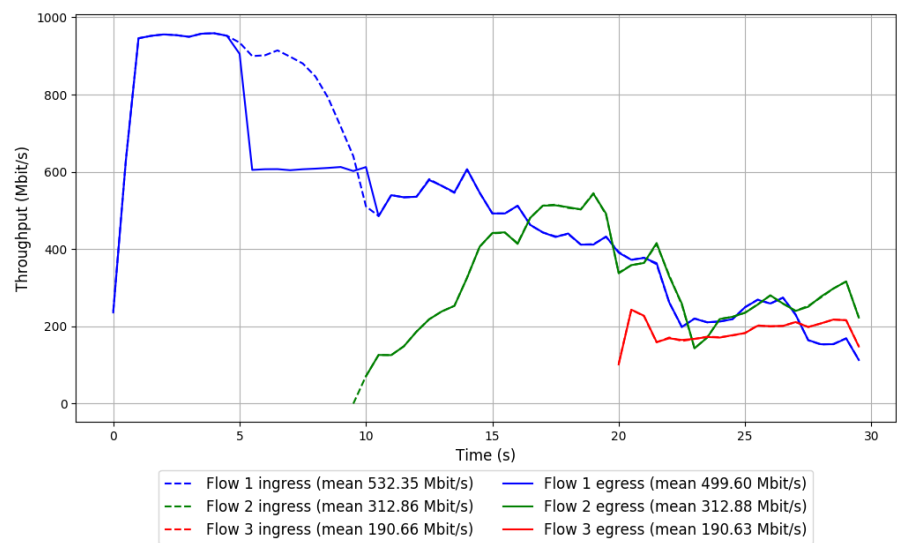
-- Flow 3:

Average throughput: 190.63 Mbit/s

95th percentile per-packet one-way delay: 4.771 ms

Loss rate: 0.05%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2017-09-18 10:41:07

End at: 2017-09-18 10:41:37

Local clock offset: -2.077 ms

Remote clock offset: 0.934 ms

Below is generated by plot.py at 2017-09-18 15:07:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 717.07 Mbit/s

95th percentile per-packet one-way delay: 4.308 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 516.57 Mbit/s

95th percentile per-packet one-way delay: 4.169 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 281.69 Mbit/s

95th percentile per-packet one-way delay: 4.485 ms

Loss rate: 0.02%

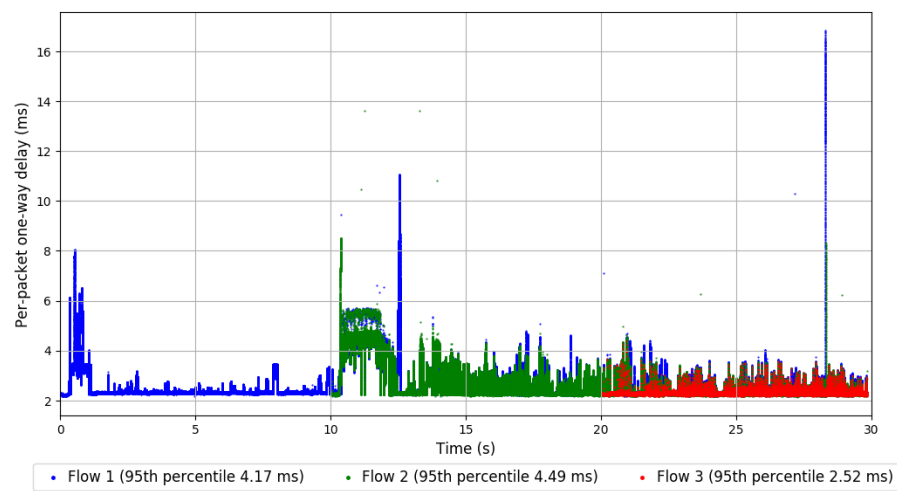
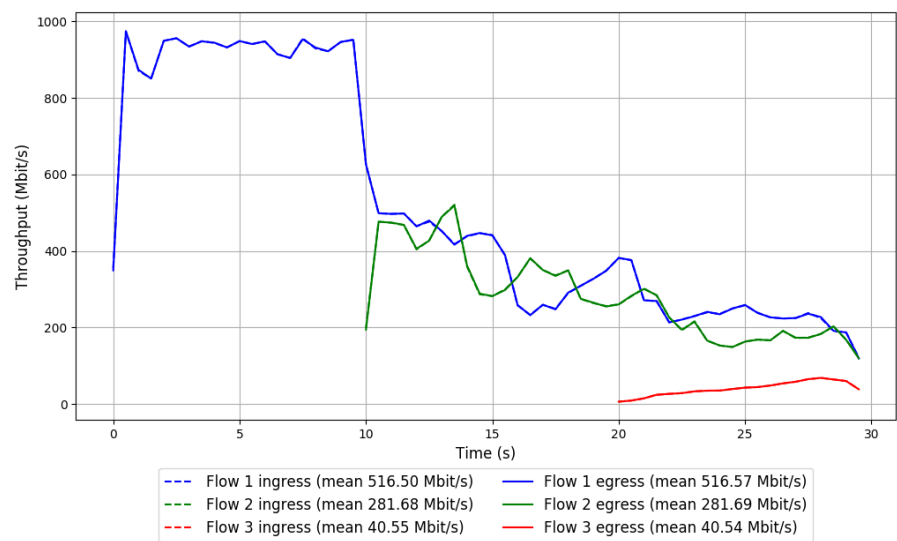
-- Flow 3:

Average throughput: 40.54 Mbit/s

95th percentile per-packet one-way delay: 2.516 ms

Loss rate: 0.08%

Run 10: Report of PCC — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2017-09-18 08:26:41

End at: 2017-09-18 08:27:11

Local clock offset: -1.856 ms

Remote clock offset: 0.207 ms

Below is generated by plot.py at 2017-09-18 15:07:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 75.90 Mbit/s

95th percentile per-packet one-way delay: 2.388 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 1.16 Mbit/s

95th percentile per-packet one-way delay: 2.581 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 74.55 Mbit/s

95th percentile per-packet one-way delay: 2.380 ms

Loss rate: 0.03%

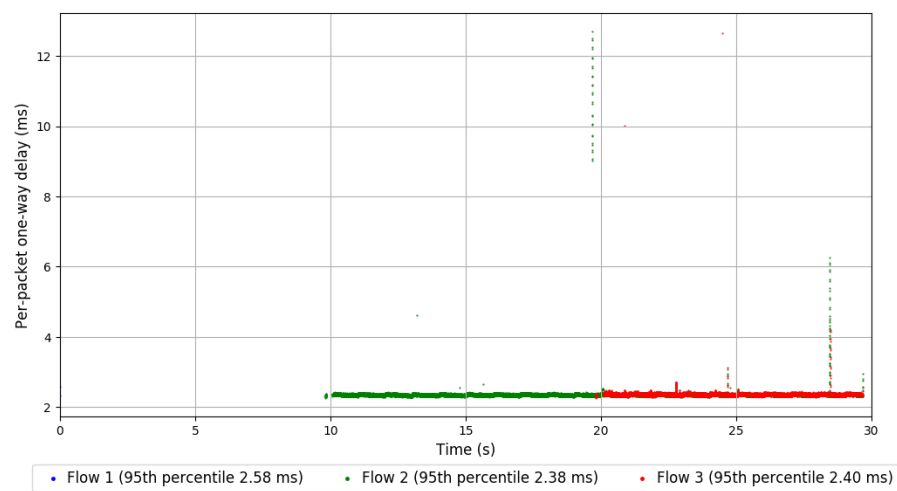
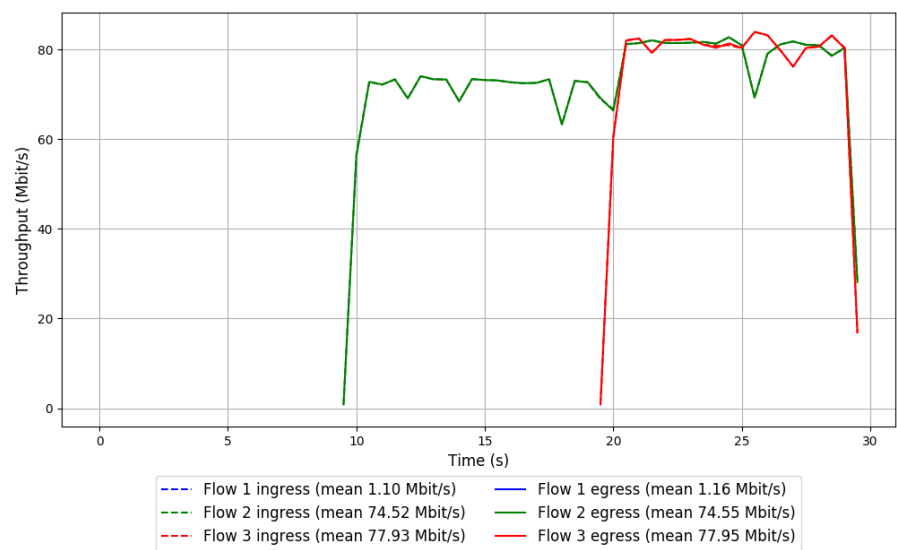
-- Flow 3:

Average throughput: 77.95 Mbit/s

95th percentile per-packet one-way delay: 2.396 ms

Loss rate: 0.01%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2017-09-18 08:40:58

End at: 2017-09-18 08:41:28

Local clock offset: -1.853 ms

Remote clock offset: 0.47 ms

Below is generated by plot.py at 2017-09-18 15:07:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 73.41 Mbit/s

95th percentile per-packet one-way delay: 2.421 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 1.19 Mbit/s

95th percentile per-packet one-way delay: 2.457 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 73.37 Mbit/s

95th percentile per-packet one-way delay: 2.411 ms

Loss rate: 0.02%

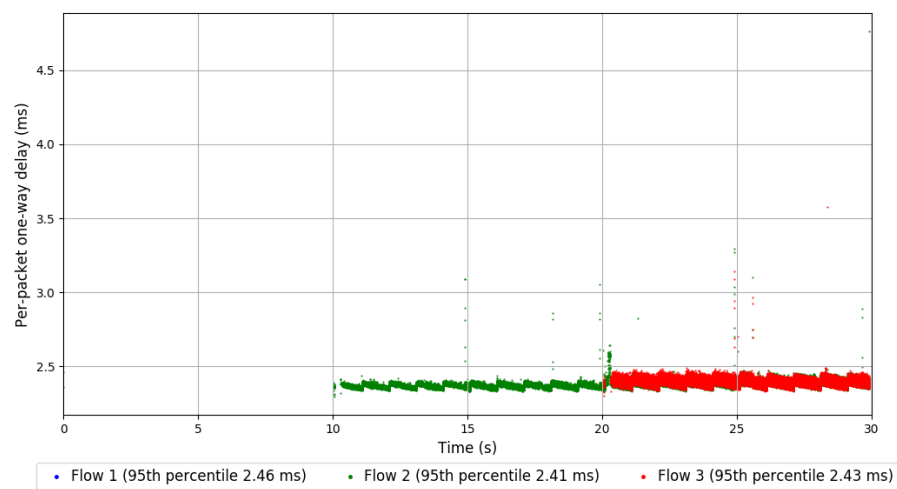
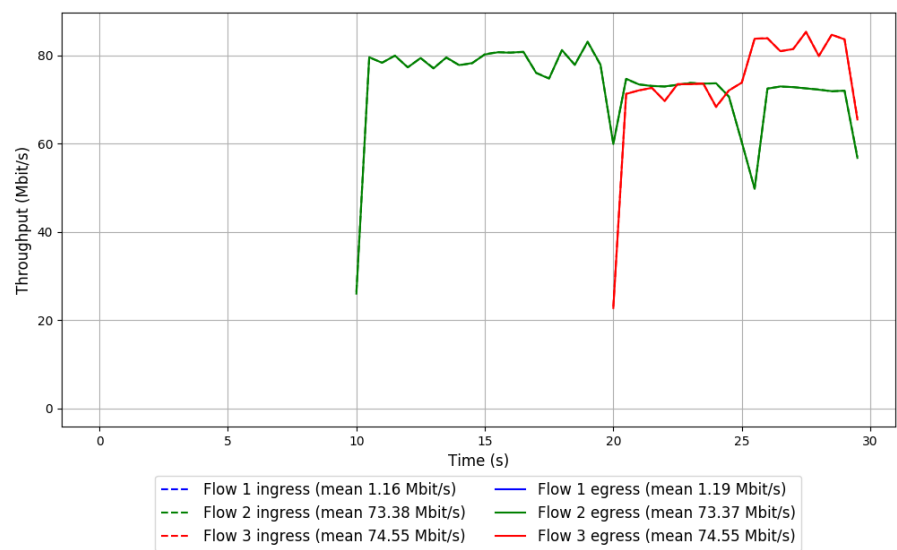
-- Flow 3:

Average throughput: 74.55 Mbit/s

95th percentile per-packet one-way delay: 2.430 ms

Loss rate: 0.05%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2017-09-18 08:55:14

End at: 2017-09-18 08:55:44

Local clock offset: -1.944 ms

Remote clock offset: 0.805 ms

Below is generated by plot.py at 2017-09-18 15:07:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 81.31 Mbit/s

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

Loss rate: 0.03%

-- Flow 1:

Average throughput: 0.89 Mbit/s

95th percentile per-packet one-way delay: 3.807 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 83.28 Mbit/s

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

Loss rate: 0.03%

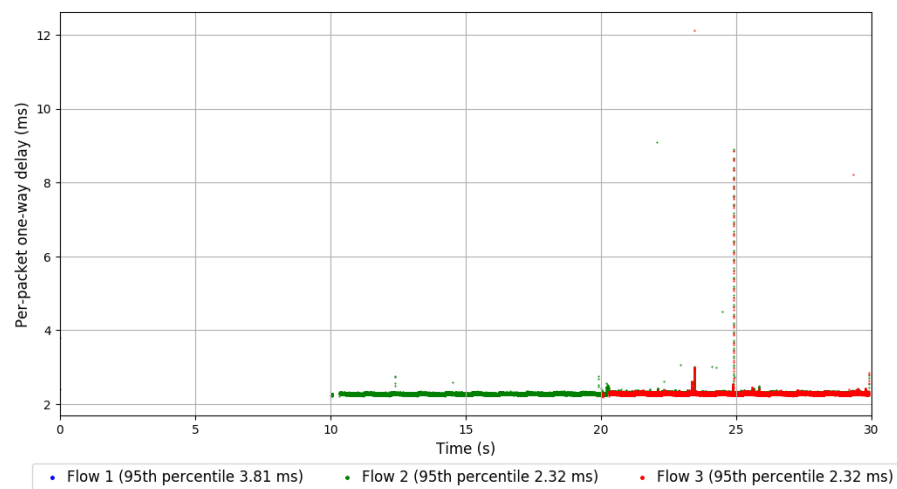
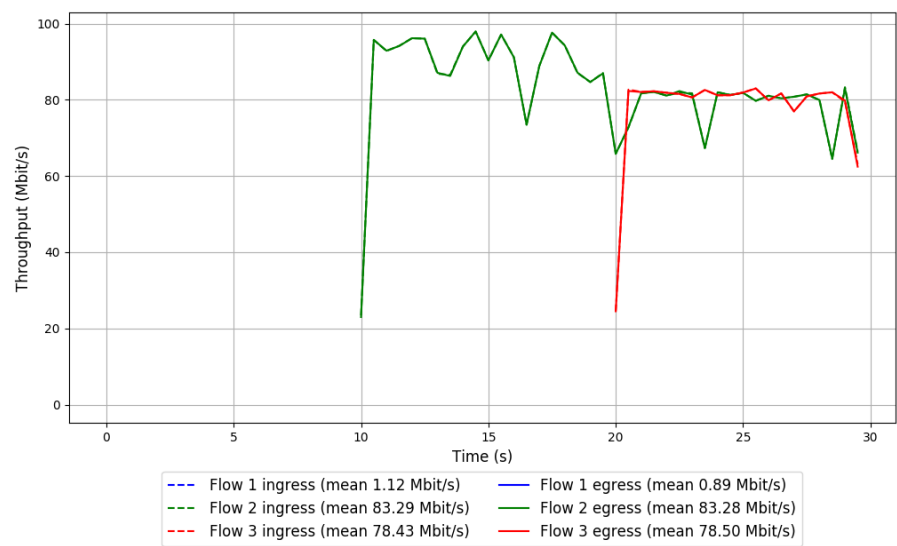
-- Flow 3:

Average throughput: 78.50 Mbit/s

95th percentile per-packet one-way delay: 2.321 ms

Loss rate: 0.05%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2017-09-18 09:09:29

End at: 2017-09-18 09:09:59

Local clock offset: -1.821 ms

Remote clock offset: 1.026 ms

Below is generated by plot.py at 2017-09-18 15:07:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 74.73 Mbit/s

95th percentile per-packet one-way delay: 2.321 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 1.21 Mbit/s

95th percentile per-packet one-way delay: 2.352 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 73.29 Mbit/s

95th percentile per-packet one-way delay: 2.316 ms

Loss rate: 0.03%

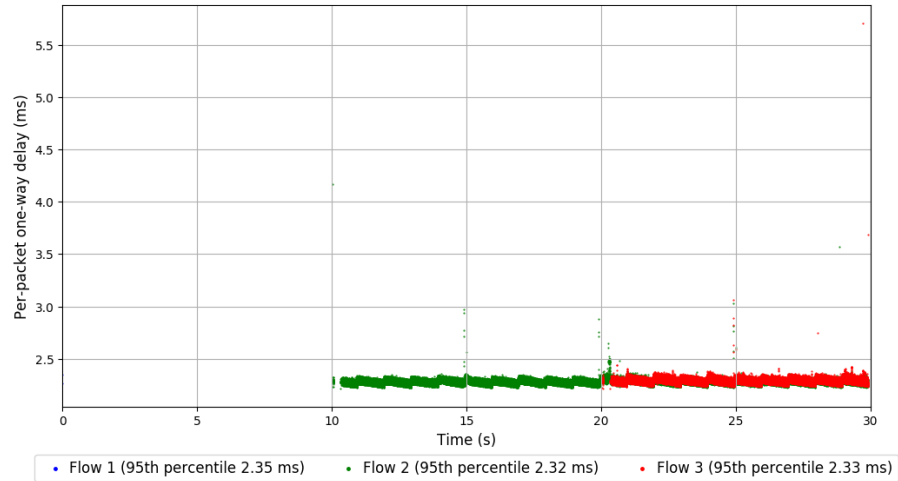
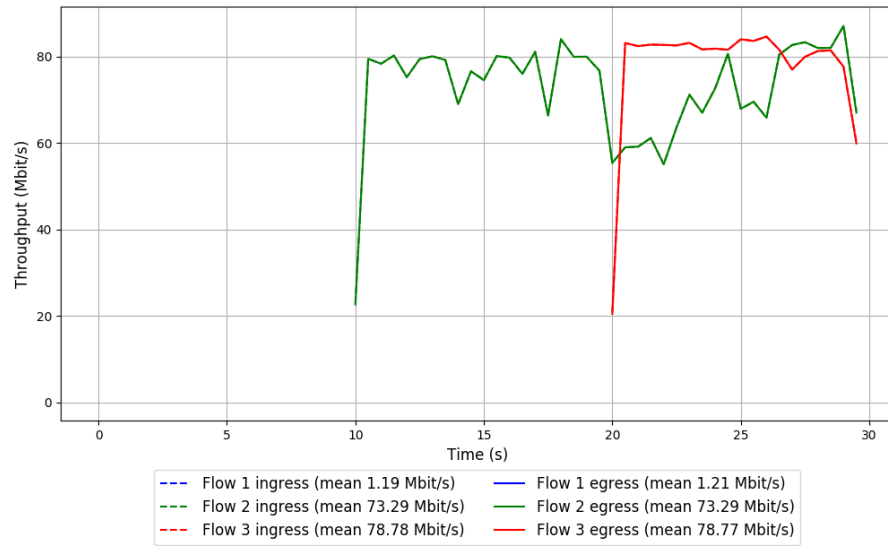
-- Flow 3:

Average throughput: 78.77 Mbit/s

95th percentile per-packet one-way delay: 2.328 ms

Loss rate: 0.05%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2017-09-18 09:23:44

End at: 2017-09-18 09:24:14

Local clock offset: -1.647 ms

Remote clock offset: 1.185 ms

Below is generated by plot.py at 2017-09-18 15:07:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 75.63 Mbit/s

95th percentile per-packet one-way delay: 2.325 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 1.13 Mbit/s

95th percentile per-packet one-way delay: 2.539 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 74.17 Mbit/s

95th percentile per-packet one-way delay: 2.326 ms

Loss rate: 0.02%

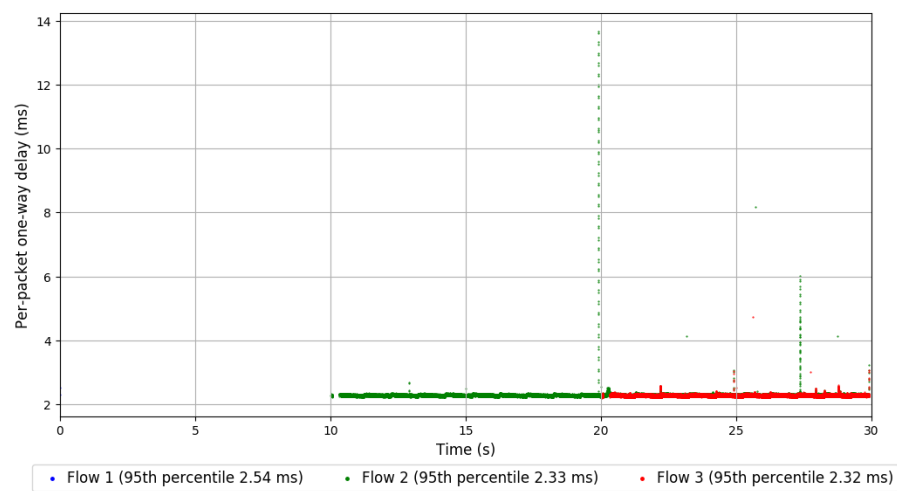
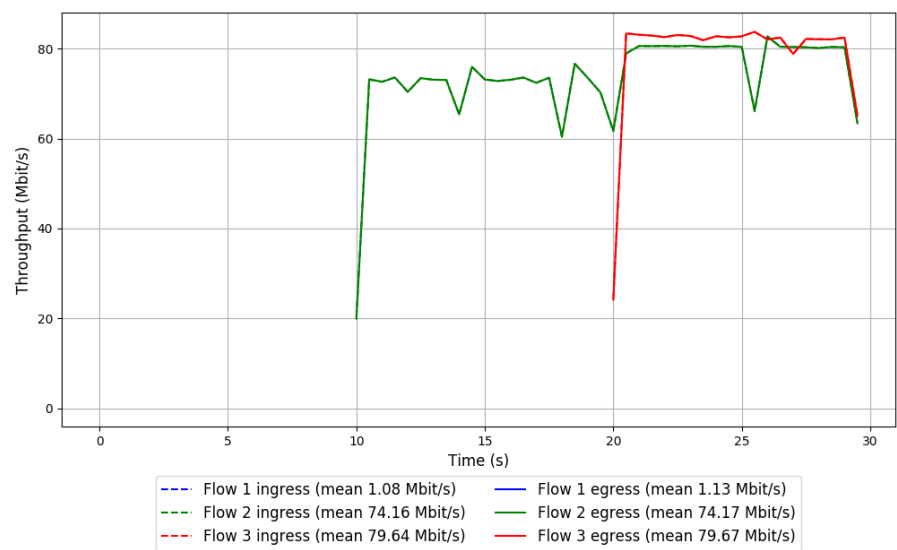
-- Flow 3:

Average throughput: 79.67 Mbit/s

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

Loss rate: 0.04%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2017-09-18 09:38:02

End at: 2017-09-18 09:38:32

Local clock offset: -1.731 ms

Remote clock offset: 1.313 ms

Below is generated by plot.py at 2017-09-18 15:07:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 82.67 Mbit/s

95th percentile per-packet one-way delay: 2.325 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 1.13 Mbit/s

95th percentile per-packet one-way delay: 2.473 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 85.54 Mbit/s

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

Loss rate: 0.02%

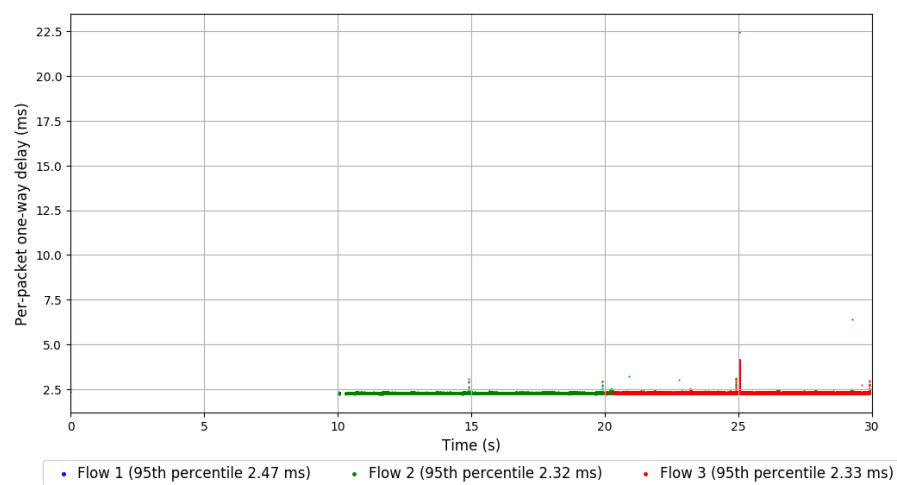
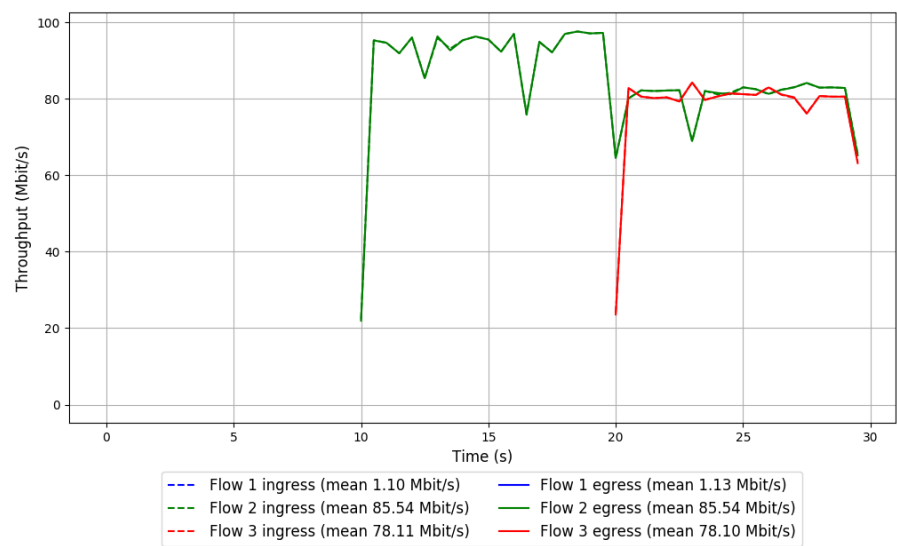
-- Flow 3:

Average throughput: 78.10 Mbit/s

95th percentile per-packet one-way delay: 2.330 ms

Loss rate: 0.05%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2017-09-18 09:52:21

End at: 2017-09-18 09:52:51

Local clock offset: -1.708 ms

Remote clock offset: 1.527 ms

Below is generated by plot.py at 2017-09-18 15:07:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 73.05 Mbit/s

95th percentile per-packet one-way delay: 2.317 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 0.83 Mbit/s

95th percentile per-packet one-way delay: 2.882 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 68.99 Mbit/s

95th percentile per-packet one-way delay: 2.318 ms

Loss rate: 0.03%

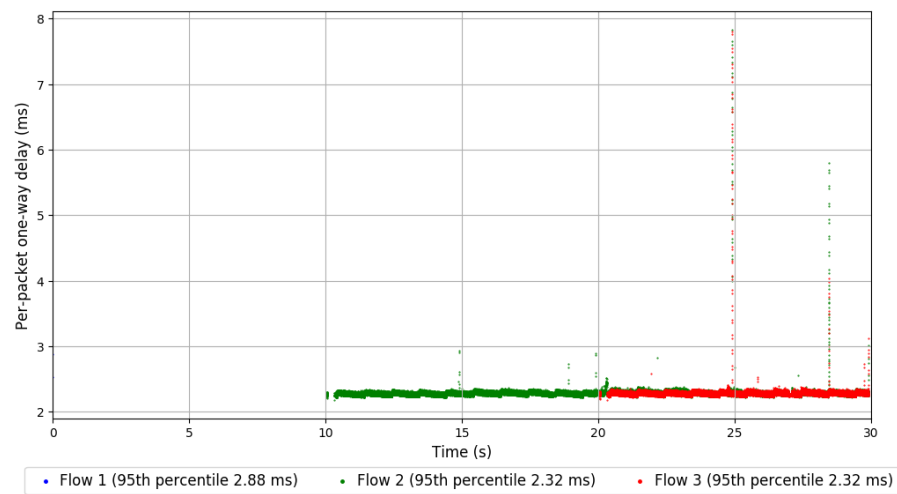
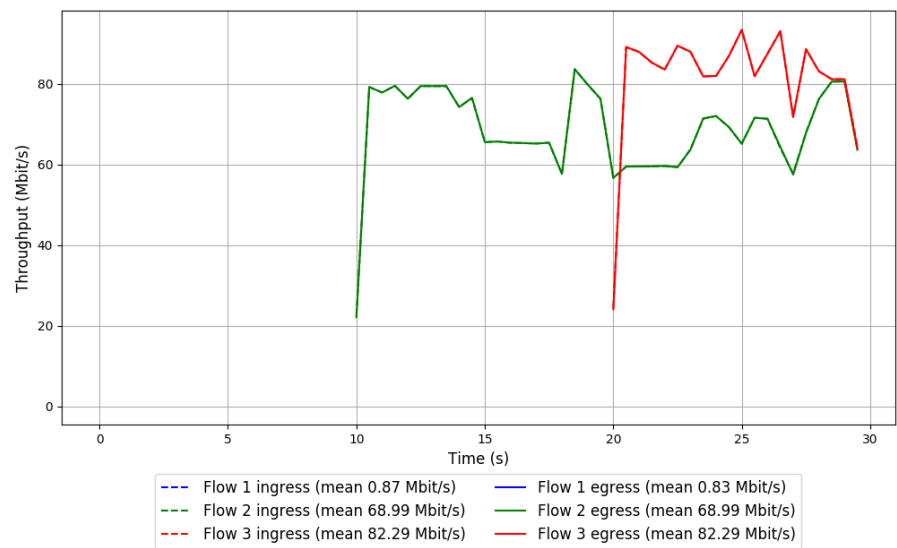
-- Flow 3:

Average throughput: 82.29 Mbit/s

95th percentile per-packet one-way delay: 2.316 ms

Loss rate: 0.04%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2017-09-18 10:06:37

End at: 2017-09-18 10:07:07

Local clock offset: -1.844 ms

Remote clock offset: 1.622 ms

Below is generated by plot.py at 2017-09-18 15:07:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 80.58 Mbit/s

95th percentile per-packet one-way delay: 2.348 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 1.17 Mbit/s

95th percentile per-packet one-way delay: 2.426 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 82.57 Mbit/s

95th percentile per-packet one-way delay: 2.350 ms

Loss rate: 0.03%

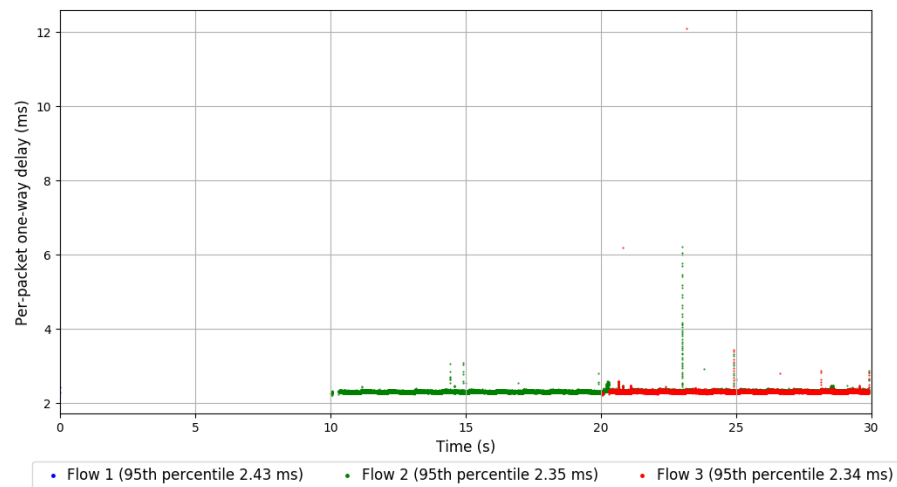
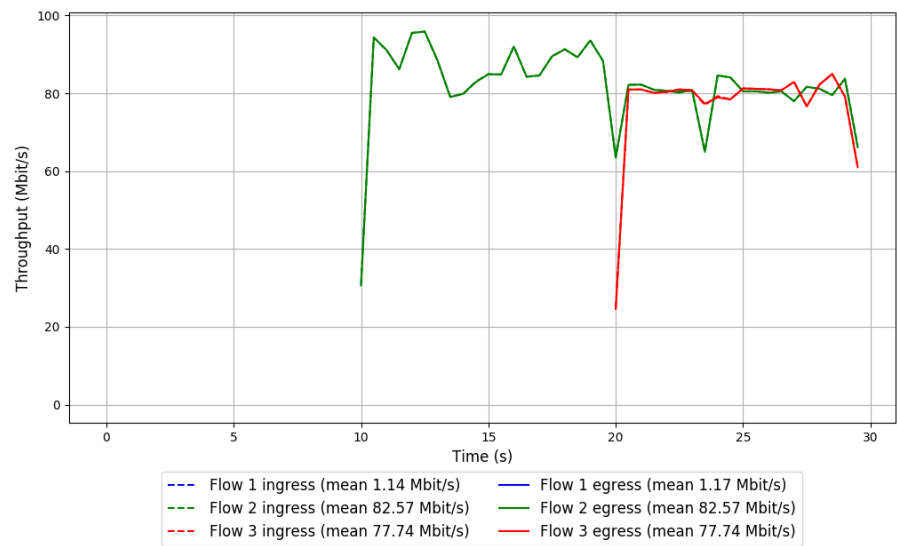
-- Flow 3:

Average throughput: 77.74 Mbit/s

95th percentile per-packet one-way delay: 2.343 ms

Loss rate: 0.04%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2017-09-18 10:20:59

End at: 2017-09-18 10:21:29

Local clock offset: -1.991 ms

Remote clock offset: 1.509 ms

Below is generated by plot.py at 2017-09-18 15:07:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 80.31 Mbit/s

95th percentile per-packet one-way delay: 2.235 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 1.14 Mbit/s

95th percentile per-packet one-way delay: 2.377 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 82.09 Mbit/s

95th percentile per-packet one-way delay: 2.221 ms

Loss rate: 0.02%

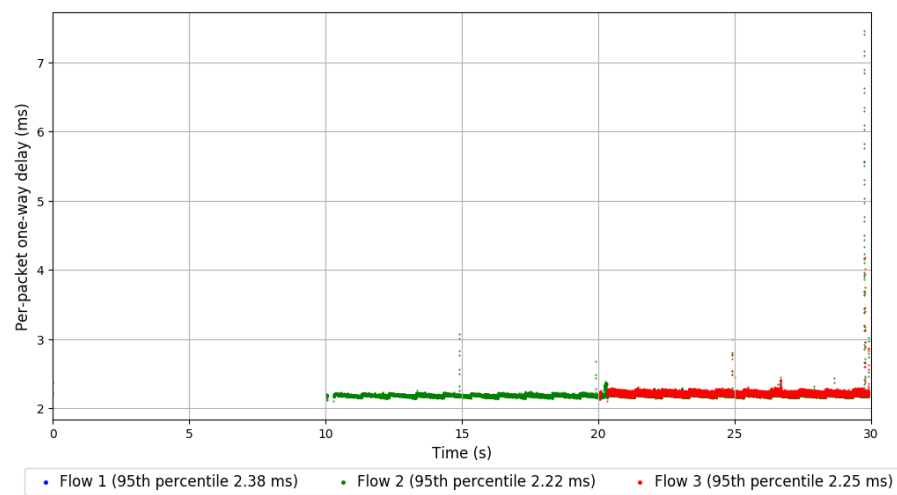
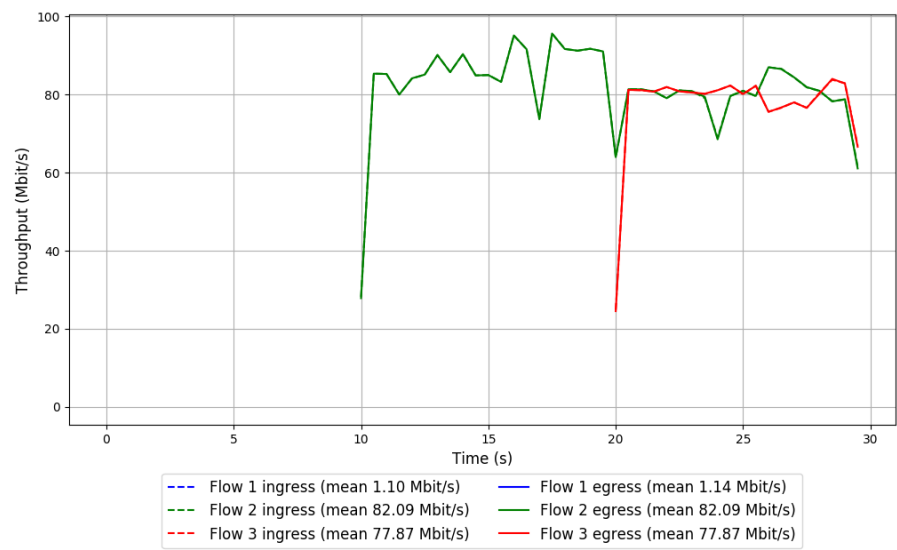
-- Flow 3:

Average throughput: 77.87 Mbit/s

95th percentile per-packet one-way delay: 2.247 ms

Loss rate: 0.05%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2017-09-18 10:35:19

End at: 2017-09-18 10:35:49

Local clock offset: -2.027 ms

Remote clock offset: 1.147 ms

Below is generated by plot.py at 2017-09-18 15:07:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 82.56 Mbit/s

95th percentile per-packet one-way delay: 2.327 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 0.95 Mbit/s

95th percentile per-packet one-way delay: 3.494 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 84.76 Mbit/s

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

Loss rate: 0.02%

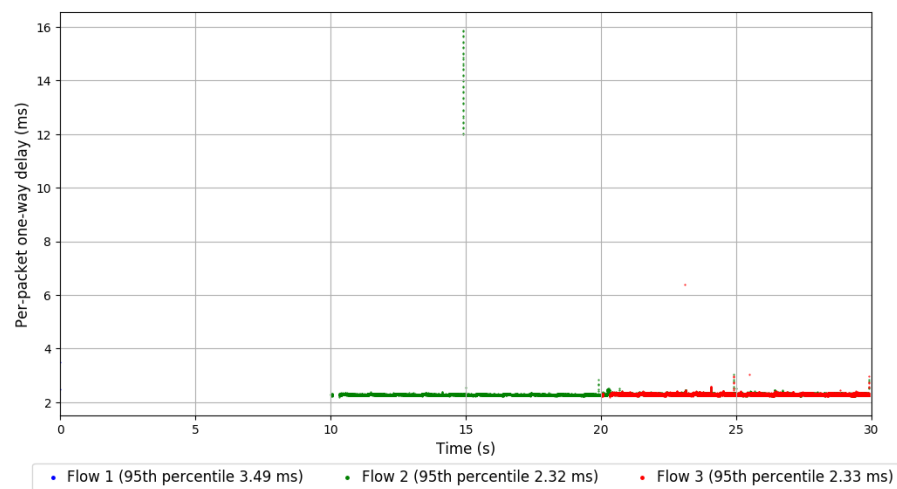
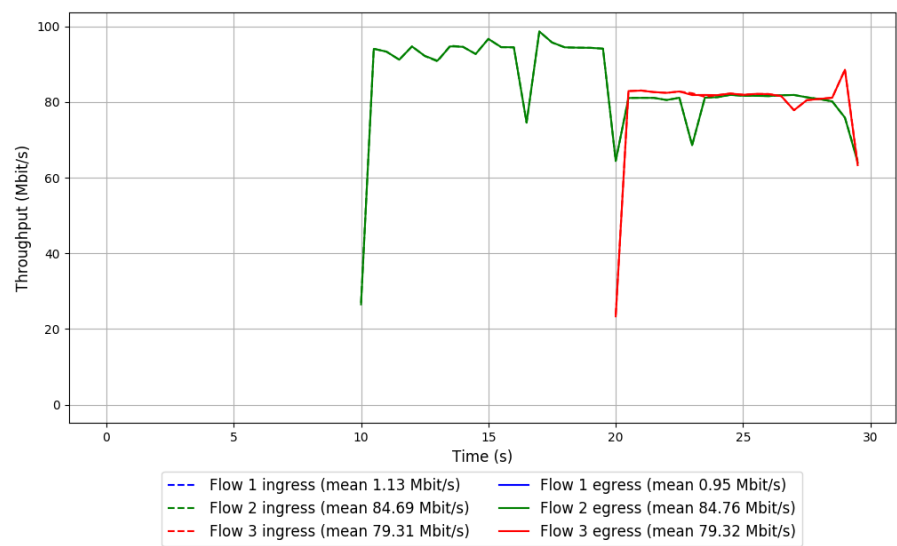
-- Flow 3:

Average throughput: 79.32 Mbit/s

95th percentile per-packet one-way delay: 2.332 ms

Loss rate: 0.05%

Run 10: Report of QUIC Cubic — Data Link

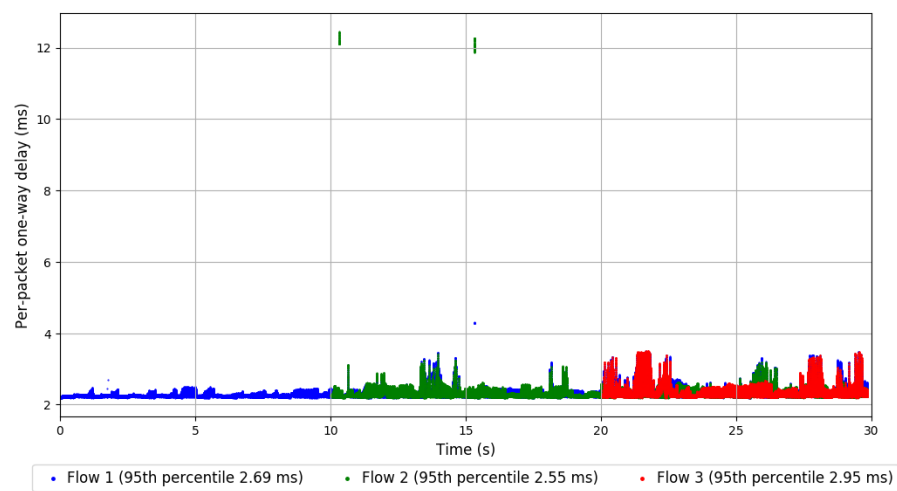
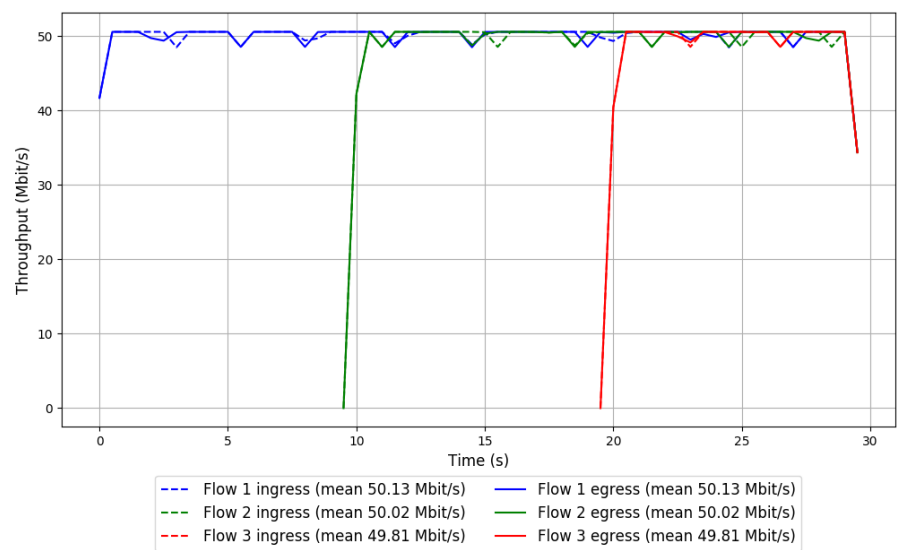


Run 1: Statistics of Sprout

Start at: 2017-09-18 08:36:54
End at: 2017-09-18 08:37:24
Local clock offset: -1.922 ms
Remote clock offset: 0.481 ms

Below is generated by plot.py at 2017-09-18 15:07:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 99.83 Mbit/s
95th percentile per-packet one-way delay: 2.700 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 50.13 Mbit/s
95th percentile per-packet one-way delay: 2.690 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 50.02 Mbit/s
95th percentile per-packet one-way delay: 2.547 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 49.81 Mbit/s
95th percentile per-packet one-way delay: 2.949 ms
Loss rate: 0.00%

Run 1: Report of Sprout — Data Link

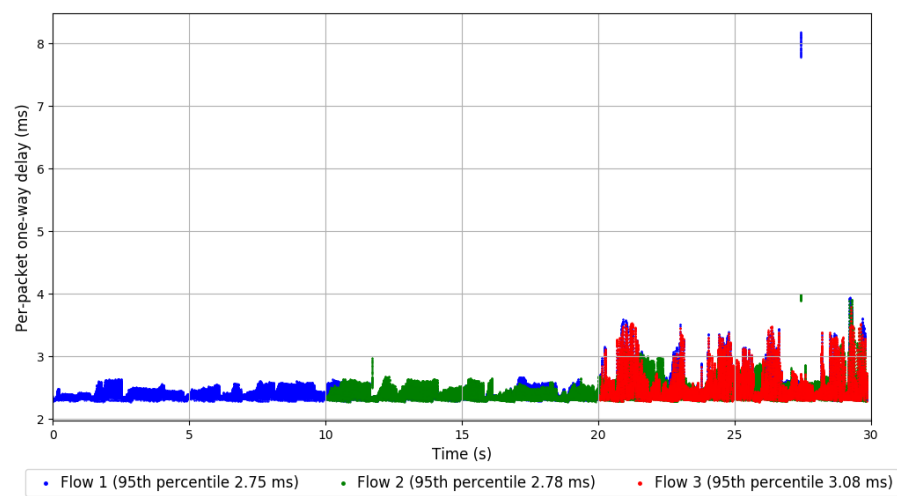
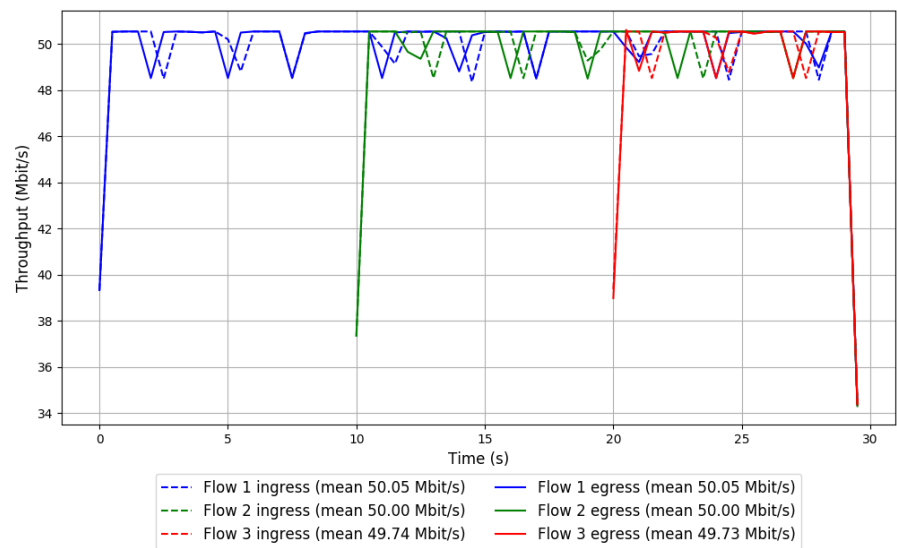


Run 2: Statistics of Sprout

Start at: 2017-09-18 08:51:10
End at: 2017-09-18 08:51:40
Local clock offset: -1.91 ms
Remote clock offset: 0.723 ms

Below is generated by plot.py at 2017-09-18 15:07:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 99.65 Mbit/s
95th percentile per-packet one-way delay: 2.858 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 50.05 Mbit/s
95th percentile per-packet one-way delay: 2.752 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 50.00 Mbit/s
95th percentile per-packet one-way delay: 2.780 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 49.73 Mbit/s
95th percentile per-packet one-way delay: 3.085 ms
Loss rate: 0.00%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2017-09-18 09:05:25

End at: 2017-09-18 09:05:55

Local clock offset: -1.909 ms

Remote clock offset: 0.973 ms

Below is generated by plot.py at 2017-09-18 15:07:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 99.72 Mbit/s

95th percentile per-packet one-way delay: 2.571 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 50.05 Mbit/s

95th percentile per-packet one-way delay: 2.563 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 50.05 Mbit/s

95th percentile per-packet one-way delay: 2.626 ms

Loss rate: 0.00%

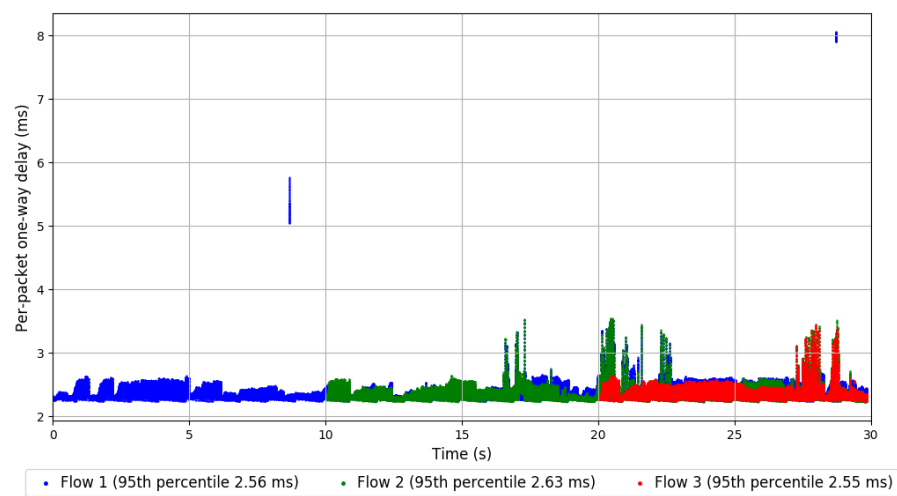
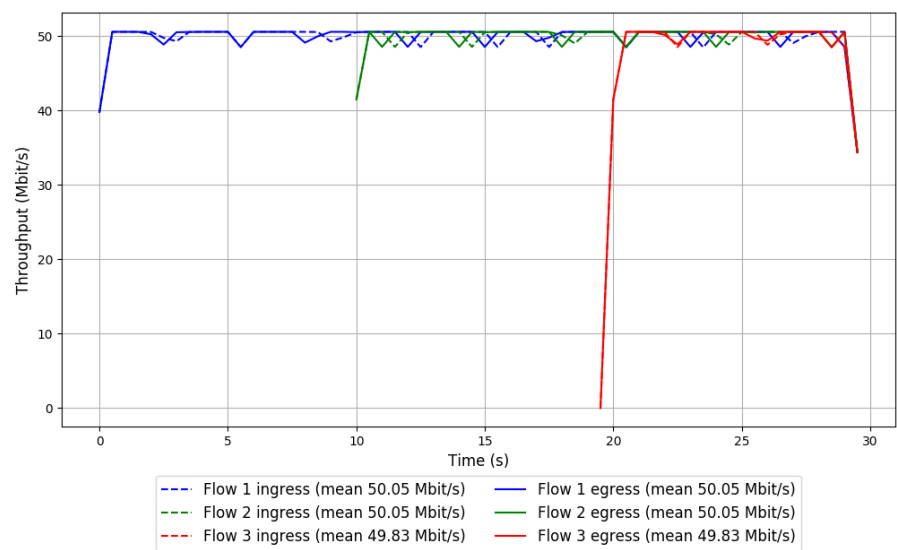
-- Flow 3:

Average throughput: 49.83 Mbit/s

95th percentile per-packet one-way delay: 2.547 ms

Loss rate: 0.00%

Run 3: Report of Sprout — Data Link

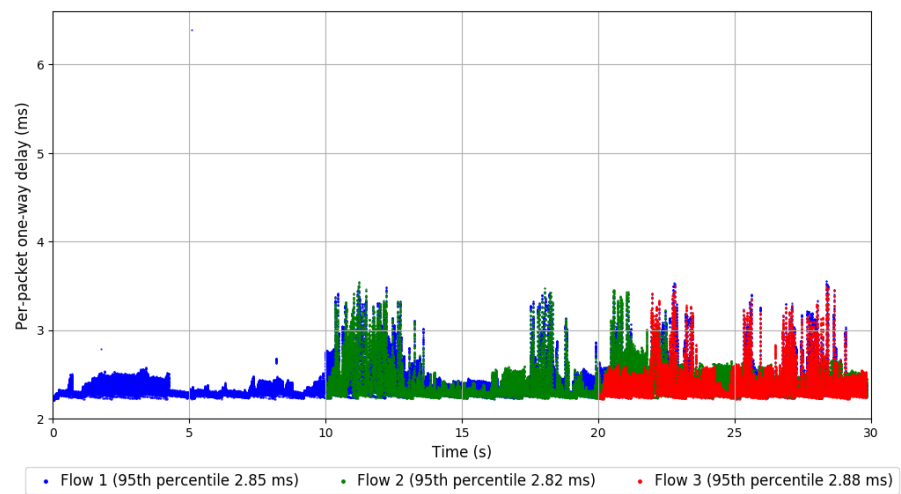
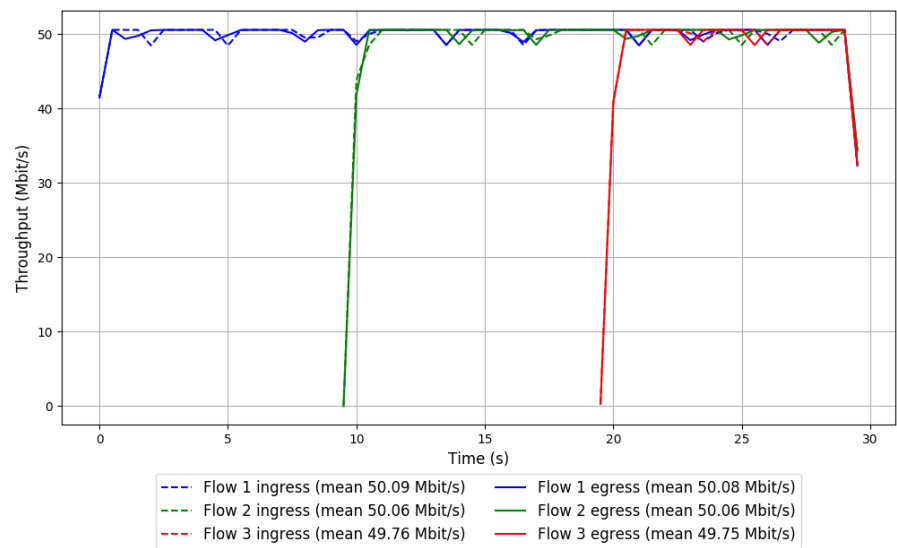


Run 4: Statistics of Sprout

Start at: 2017-09-18 09:19:40
End at: 2017-09-18 09:20:10
Local clock offset: -1.702 ms
Remote clock offset: 1.088 ms

```
# Below is generated by plot.py at 2017-09-18 15:07:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 99.79 Mbit/s
95th percentile per-packet one-way delay: 2.847 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 50.08 Mbit/s
95th percentile per-packet one-way delay: 2.854 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 50.06 Mbit/s
95th percentile per-packet one-way delay: 2.822 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 49.75 Mbit/s
95th percentile per-packet one-way delay: 2.875 ms
Loss rate: 0.21%
```

Run 4: Report of Sprout — Data Link

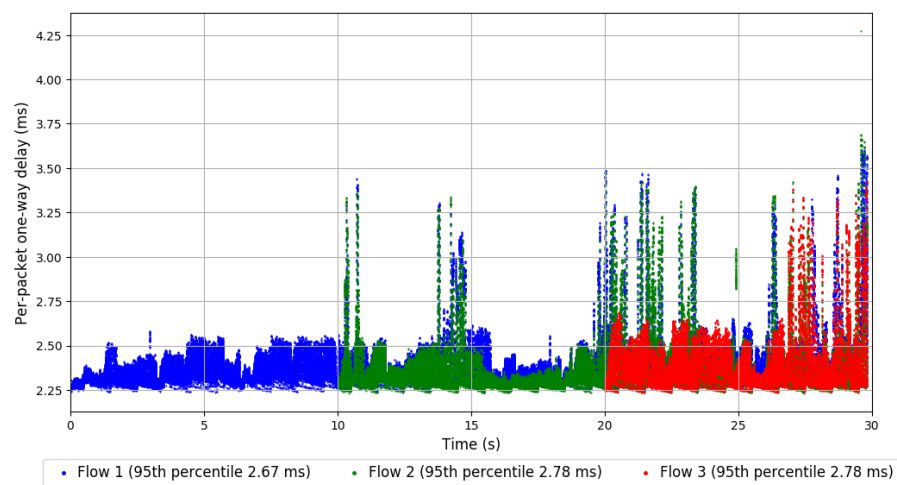
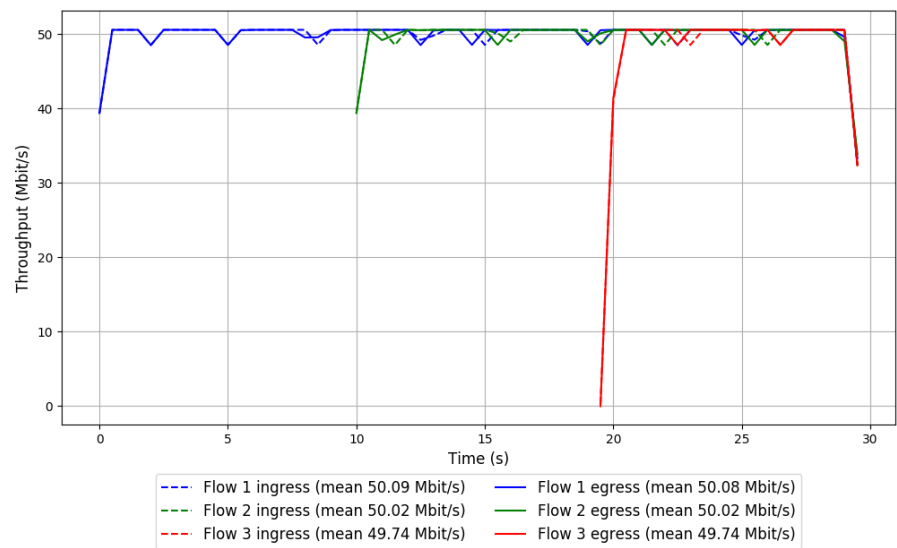


Run 5: Statistics of Sprout

Start at: 2017-09-18 09:34:00
End at: 2017-09-18 09:34:30
Local clock offset: -1.684 ms
Remote clock offset: 1.323 ms

```
# Below is generated by plot.py at 2017-09-18 15:07:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 99.74 Mbit/s
95th percentile per-packet one-way delay: 2.735 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 50.08 Mbit/s
95th percentile per-packet one-way delay: 2.671 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 50.02 Mbit/s
95th percentile per-packet one-way delay: 2.784 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 49.74 Mbit/s
95th percentile per-packet one-way delay: 2.778 ms
Loss rate: 0.00%
```


Run 5: Report of Sprout — Data Link

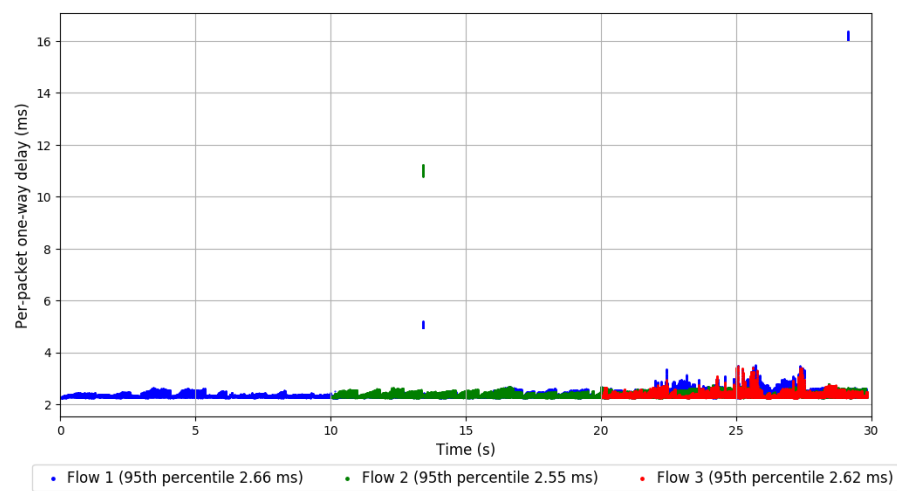
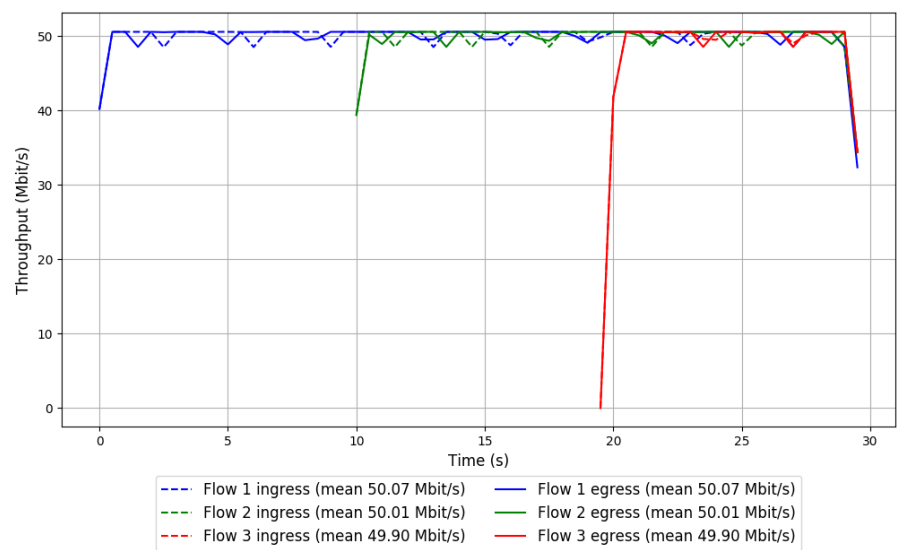


Run 6: Statistics of Sprout

Start at: 2017-09-18 09:48:18
End at: 2017-09-18 09:48:48
Local clock offset: -1.71 ms
Remote clock offset: 1.5 ms

Below is generated by plot.py at 2017-09-18 15:07:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 99.73 Mbit/s
95th percentile per-packet one-way delay: 2.598 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 50.07 Mbit/s
95th percentile per-packet one-way delay: 2.656 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 50.01 Mbit/s
95th percentile per-packet one-way delay: 2.552 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 49.90 Mbit/s
95th percentile per-packet one-way delay: 2.622 ms
Loss rate: 0.00%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2017-09-18 10:02:34

End at: 2017-09-18 10:03:04

Local clock offset: -1.76 ms

Remote clock offset: 1.567 ms

Below is generated by plot.py at 2017-09-18 15:07:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 99.78 Mbit/s

95th percentile per-packet one-way delay: 2.647 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 50.08 Mbit/s

95th percentile per-packet one-way delay: 2.665 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 50.06 Mbit/s

95th percentile per-packet one-way delay: 2.624 ms

Loss rate: 0.00%

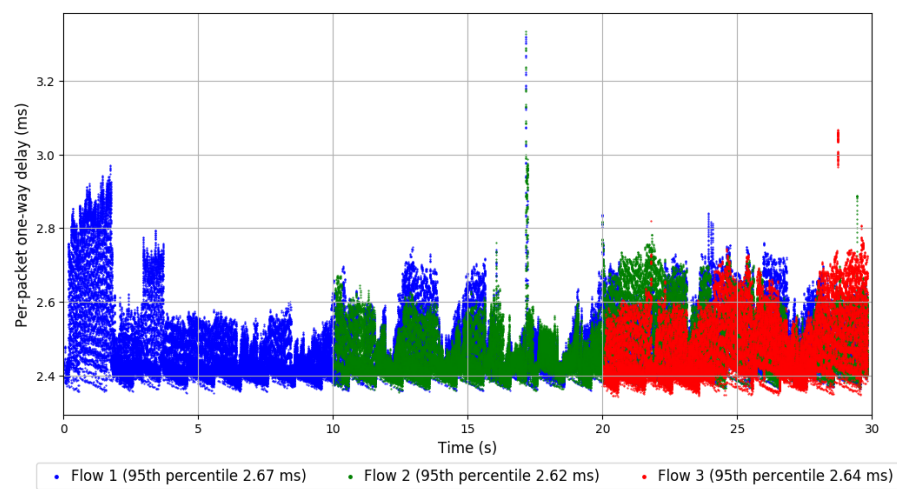
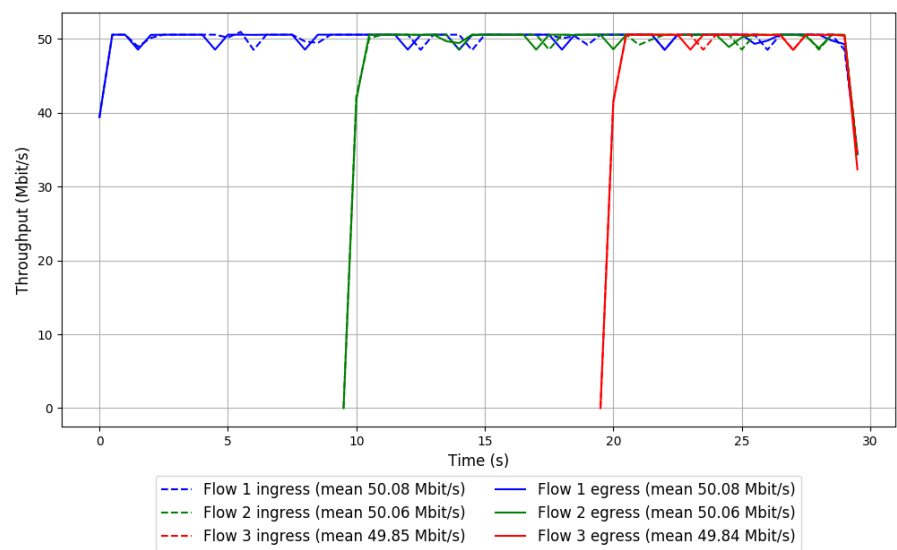
-- Flow 3:

Average throughput: 49.84 Mbit/s

95th percentile per-packet one-way delay: 2.641 ms

Loss rate: 0.21%

Run 7: Report of Sprout — Data Link

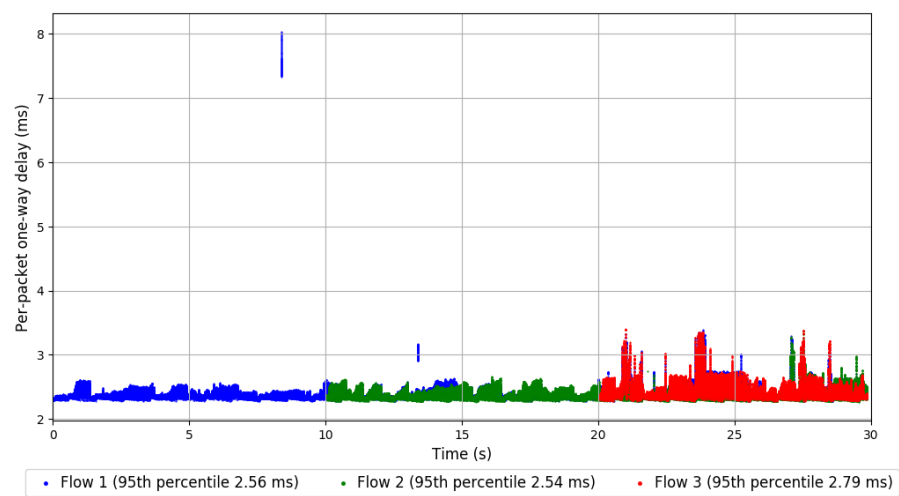
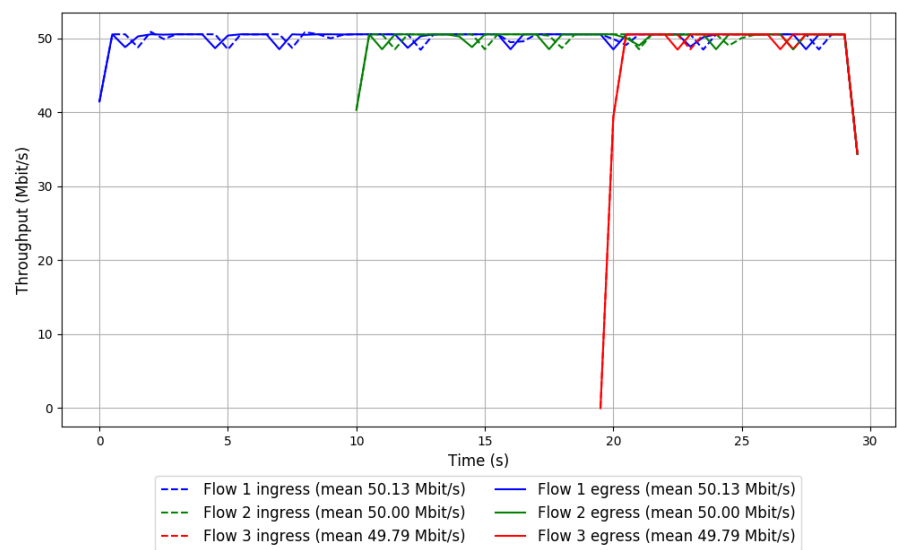


Run 8: Statistics of Sprout

Start at: 2017-09-18 10:16:57
End at: 2017-09-18 10:17:27
Local clock offset: -1.924 ms
Remote clock offset: 1.516 ms

Below is generated by plot.py at 2017-09-18 15:07:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 99.77 Mbit/s
95th percentile per-packet one-way delay: 2.596 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 50.13 Mbit/s
95th percentile per-packet one-way delay: 2.565 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 50.00 Mbit/s
95th percentile per-packet one-way delay: 2.535 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 49.79 Mbit/s
95th percentile per-packet one-way delay: 2.787 ms
Loss rate: 0.00%

Run 8: Report of Sprout — Data Link

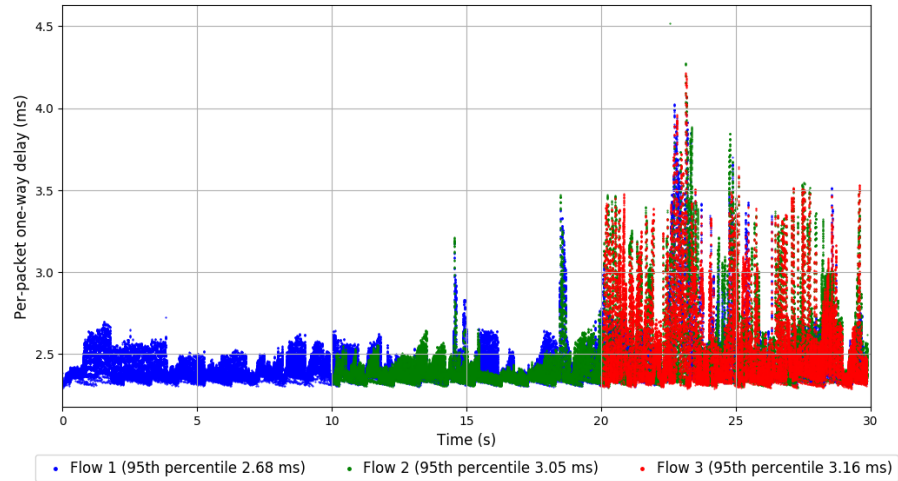
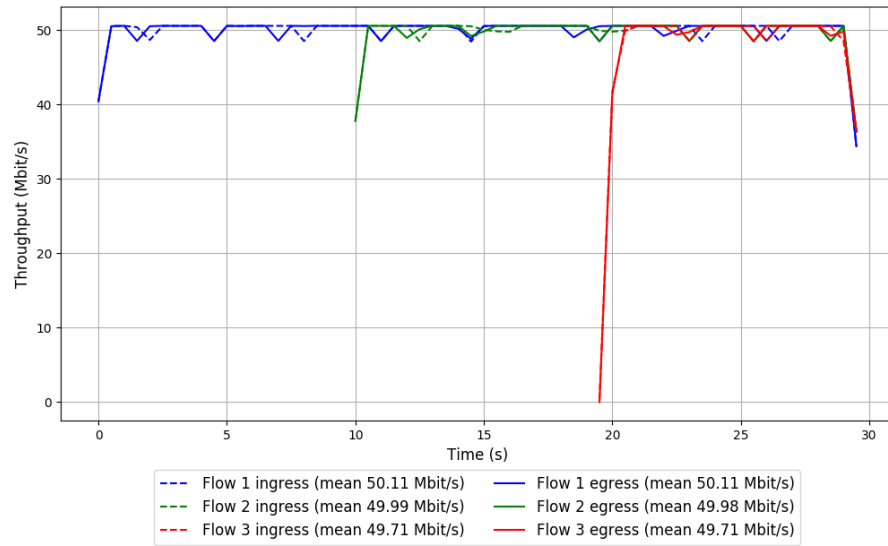


Run 9: Statistics of Sprout

Start at: 2017-09-18 10:31:17
End at: 2017-09-18 10:31:47
Local clock offset: -2.001 ms
Remote clock offset: 1.3 ms

Below is generated by plot.py at 2017-09-18 15:07:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 99.73 Mbit/s
95th percentile per-packet one-way delay: 2.971 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 50.11 Mbit/s
95th percentile per-packet one-way delay: 2.679 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 49.98 Mbit/s
95th percentile per-packet one-way delay: 3.049 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 49.71 Mbit/s
95th percentile per-packet one-way delay: 3.156 ms
Loss rate: 0.00%

Run 9: Report of Sprout — Data Link

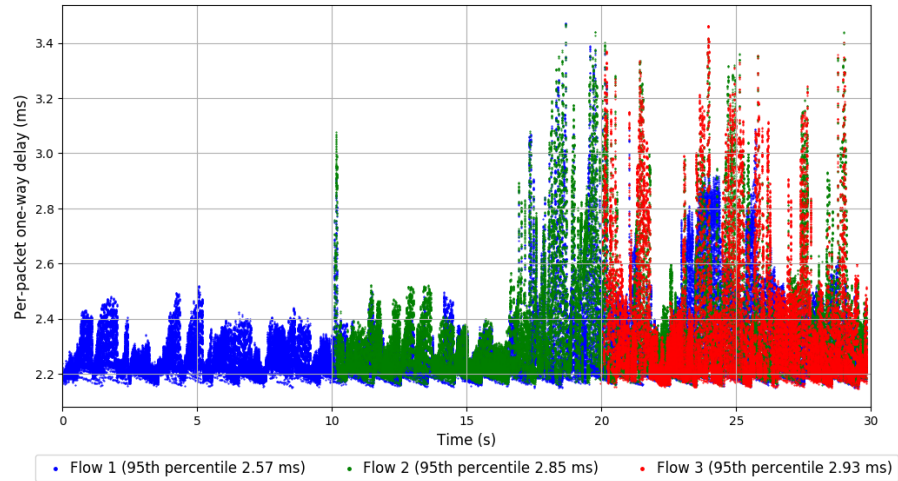
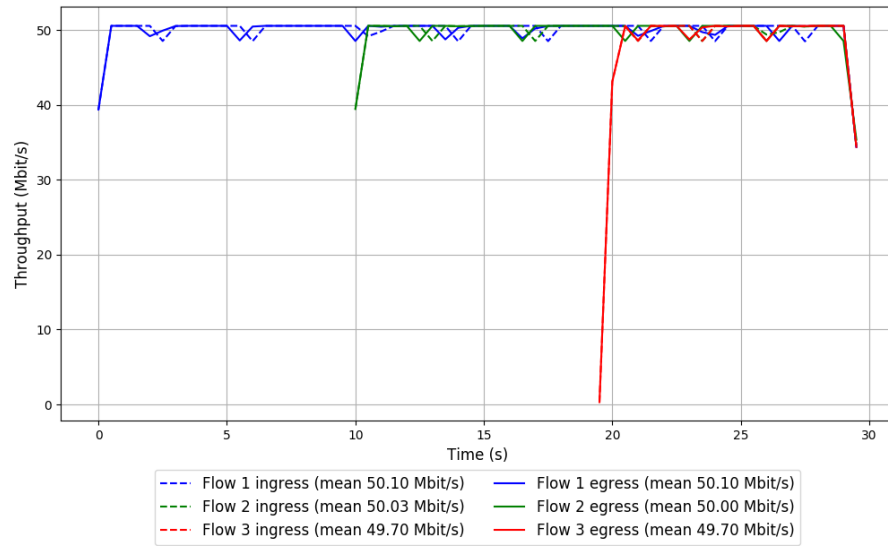


Run 10: Statistics of Sprout

Start at: 2017-09-18 10:45:33
End at: 2017-09-18 10:46:03
Local clock offset: -2.178 ms
Remote clock offset: 0.826 ms

Below is generated by plot.py at 2017-09-18 15:07:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 99.76 Mbit/s
95th percentile per-packet one-way delay: 2.754 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 50.10 Mbit/s
95th percentile per-packet one-way delay: 2.570 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 50.00 Mbit/s
95th percentile per-packet one-way delay: 2.845 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 49.70 Mbit/s
95th percentile per-packet one-way delay: 2.931 ms
Loss rate: 0.00%

Run 10: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

Start at: 2017-09-18 08:23:47

End at: 2017-09-18 08:24:17

Local clock offset: -1.857 ms

Remote clock offset: 0.249 ms

Below is generated by plot.py at 2017-09-18 15:07:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 206.29 Mbit/s

95th percentile per-packet one-way delay: 2.332 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 123.55 Mbit/s

95th percentile per-packet one-way delay: 2.329 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 90.21 Mbit/s

95th percentile per-packet one-way delay: 2.331 ms

Loss rate: 0.02%

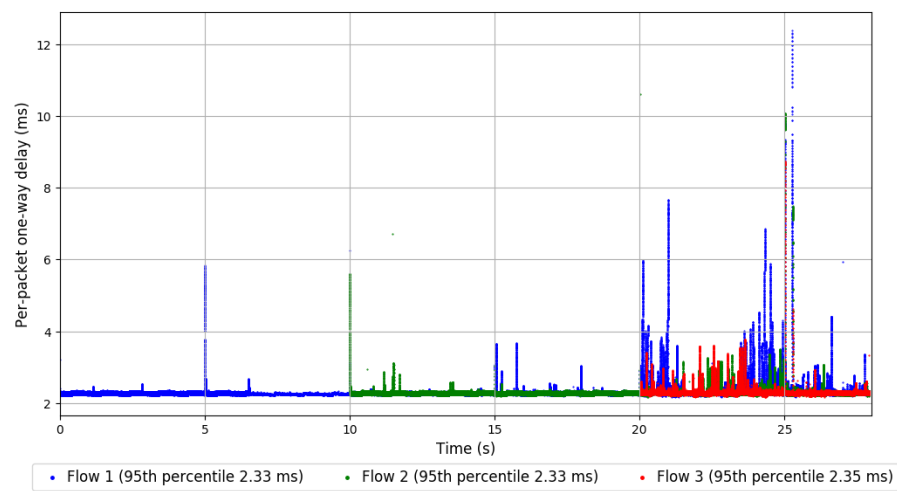
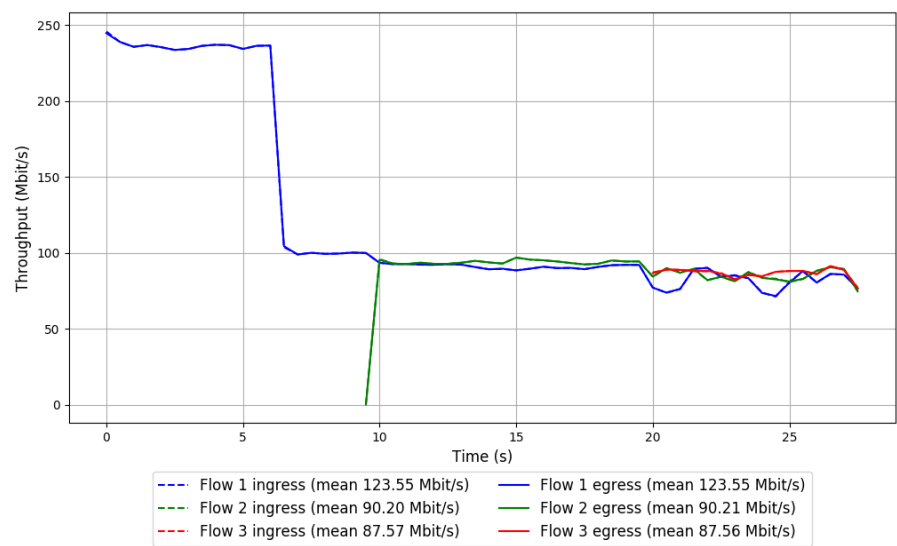
-- Flow 3:

Average throughput: 87.56 Mbit/s

95th percentile per-packet one-way delay: 2.355 ms

Loss rate: 0.06%

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



Run 2: Statistics of TaoVA-100x

Start at: 2017-09-18 08:38:02

End at: 2017-09-18 08:38:32

Local clock offset: -1.87 ms

Remote clock offset: 0.428 ms

Below is generated by plot.py at 2017-09-18 15:08:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 227.51 Mbit/s

95th percentile per-packet one-way delay: 2.404 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 143.56 Mbit/s

95th percentile per-packet one-way delay: 2.398 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 91.38 Mbit/s

95th percentile per-packet one-way delay: 2.413 ms

Loss rate: 0.02%

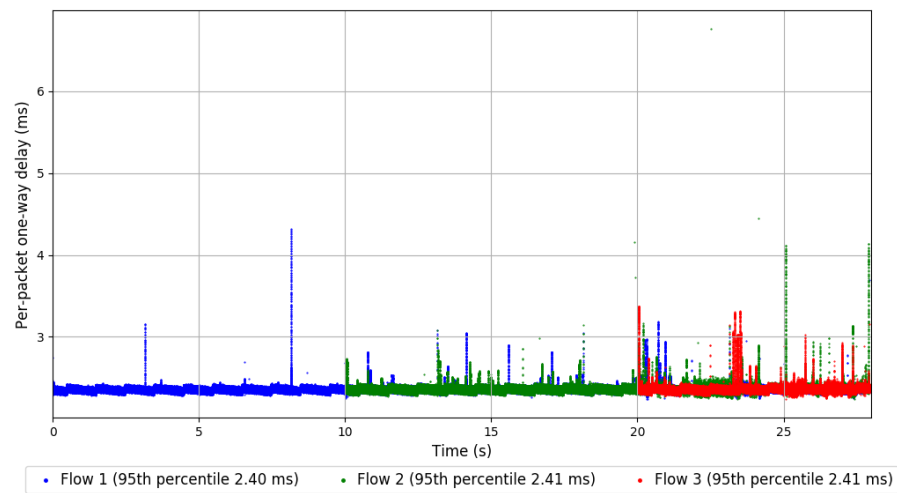
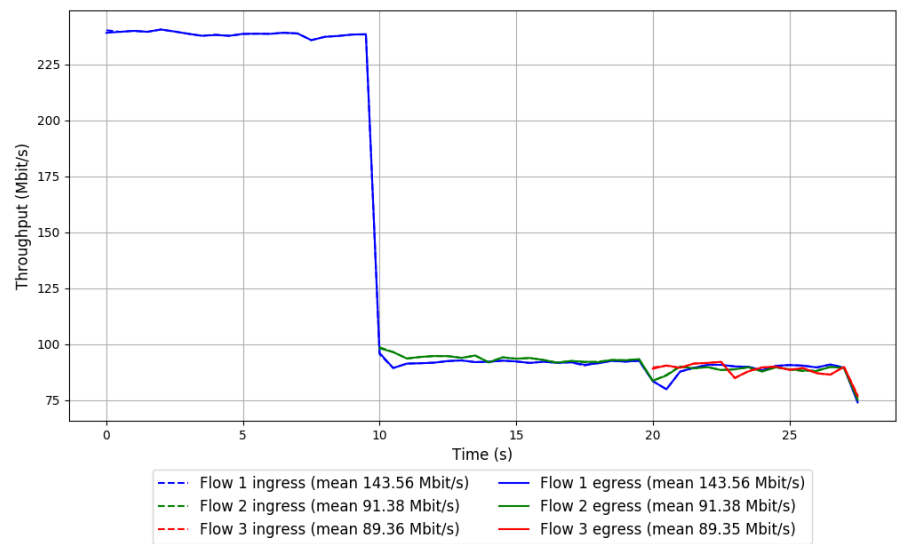
-- Flow 3:

Average throughput: 89.35 Mbit/s

95th percentile per-packet one-way delay: 2.411 ms

Loss rate: 0.06%

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



Run 3: Statistics of TaoVA-100x

Start at: 2017-09-18 08:52:17

End at: 2017-09-18 08:52:47

Local clock offset: -1.904 ms

Remote clock offset: 0.687 ms

Below is generated by plot.py at 2017-09-18 15:09:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 231.34 Mbit/s

95th percentile per-packet one-way delay: 2.439 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 147.92 Mbit/s

95th percentile per-packet one-way delay: 2.434 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 89.70 Mbit/s

95th percentile per-packet one-way delay: 2.446 ms

Loss rate: 0.03%

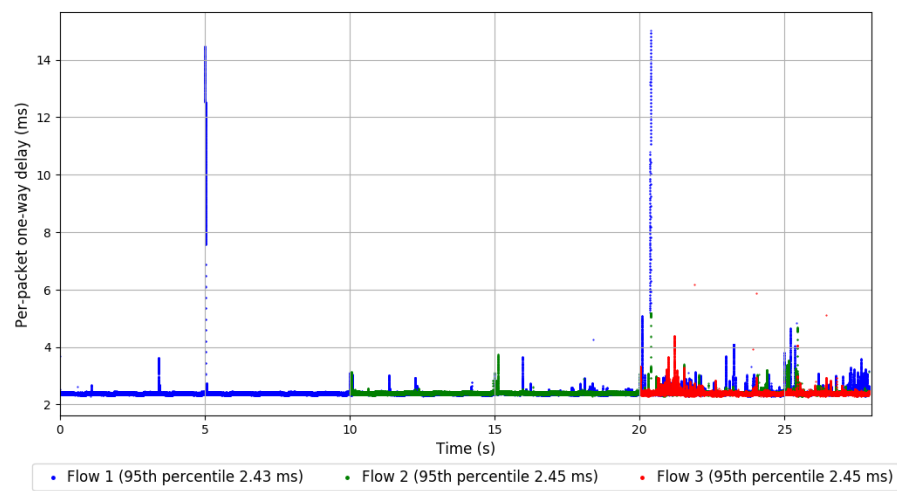
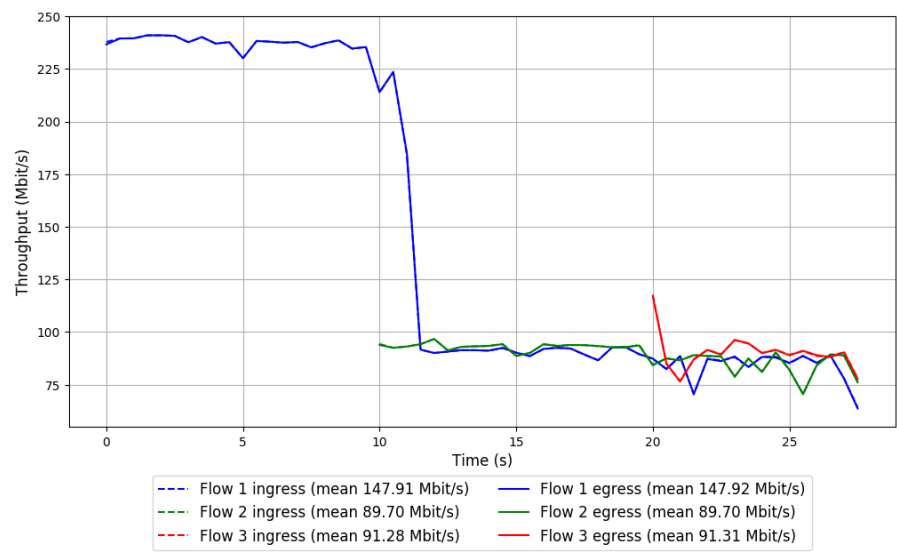
-- Flow 3:

Average throughput: 91.31 Mbit/s

95th percentile per-packet one-way delay: 2.447 ms

Loss rate: 0.04%

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



Run 4: Statistics of TaoVA-100x

Start at: 2017-09-18 09:06:32

End at: 2017-09-18 09:07:02

Local clock offset: -1.873 ms

Remote clock offset: 0.992 ms

Below is generated by plot.py at 2017-09-18 15:09:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 239.82 Mbit/s

95th percentile per-packet one-way delay: 2.340 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 142.10 Mbit/s

95th percentile per-packet one-way delay: 2.344 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 112.88 Mbit/s

95th percentile per-packet one-way delay: 2.331 ms

Loss rate: 0.02%

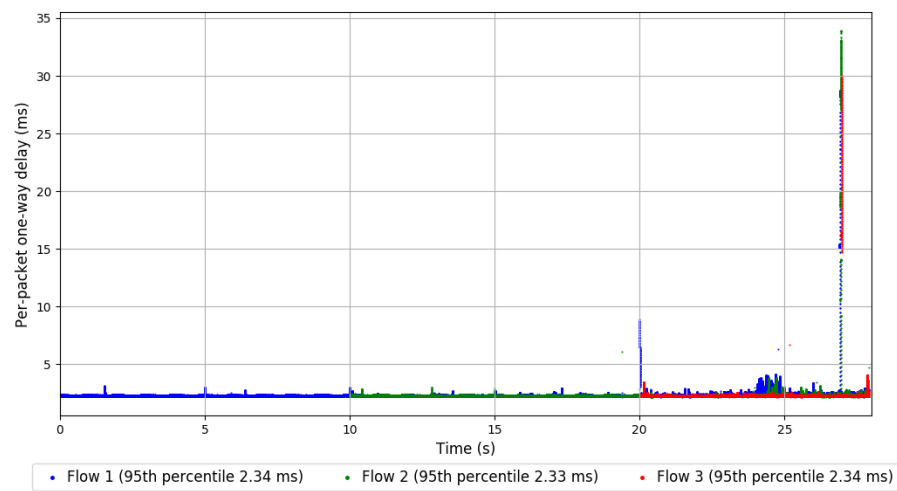
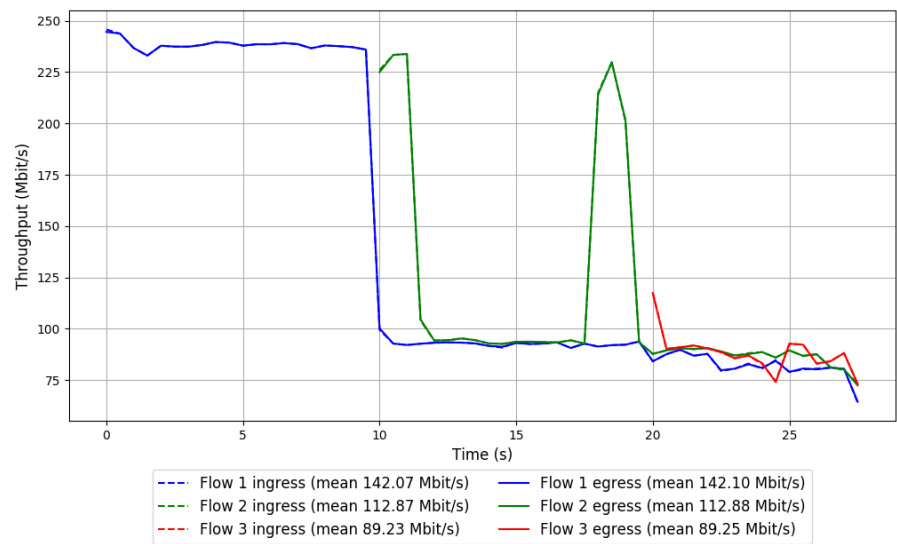
-- Flow 3:

Average throughput: 89.25 Mbit/s

95th percentile per-packet one-way delay: 2.337 ms

Loss rate: 0.03%

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



Run 5: Statistics of TaoVA-100x

Start at: 2017-09-18 09:20:47

End at: 2017-09-18 09:21:17

Local clock offset: -1.696 ms

Remote clock offset: 1.141 ms

Below is generated by plot.py at 2017-09-18 15:09:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 241.31 Mbit/s

95th percentile per-packet one-way delay: 2.293 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 143.64 Mbit/s

95th percentile per-packet one-way delay: 2.290 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 112.42 Mbit/s

95th percentile per-packet one-way delay: 2.300 ms

Loss rate: 0.02%

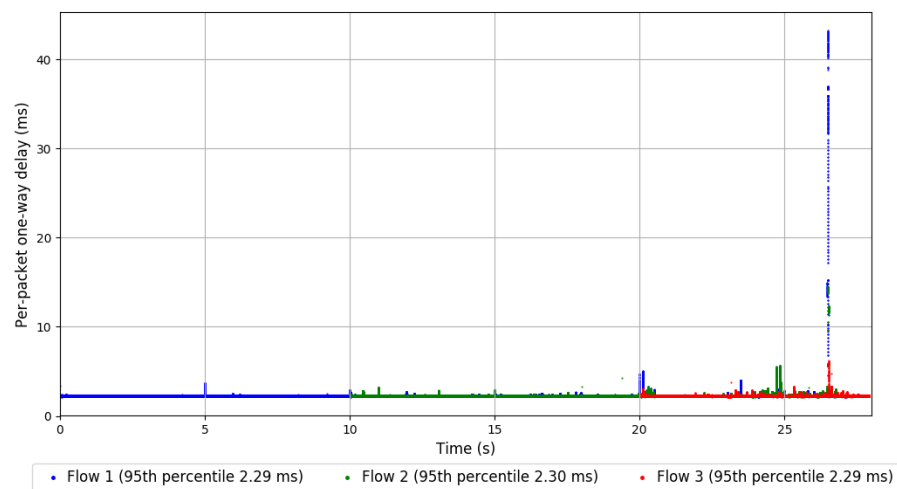
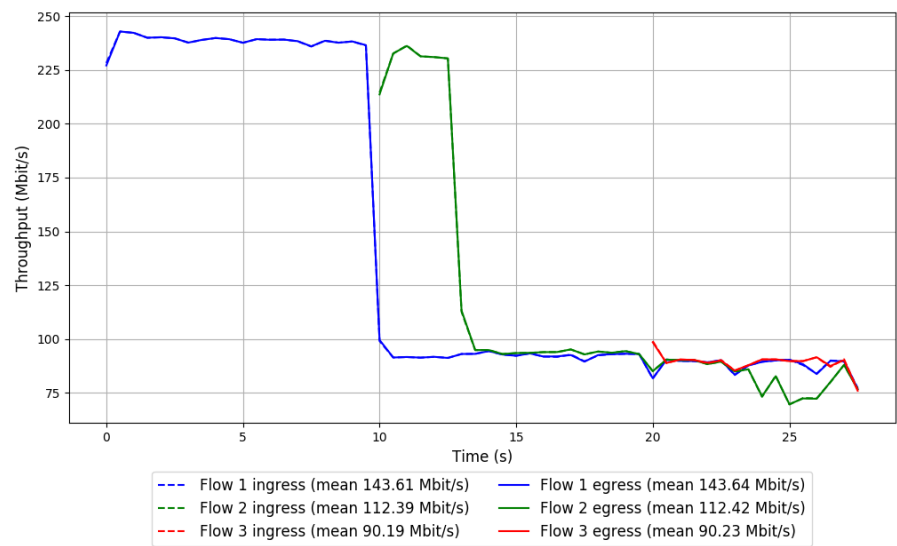
-- Flow 3:

Average throughput: 90.23 Mbit/s

95th percentile per-packet one-way delay: 2.291 ms

Loss rate: 0.05%

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



Run 6: Statistics of TaoVA-100x

Start at: 2017-09-18 09:35:07

End at: 2017-09-18 09:35:37

Local clock offset: -1.669 ms

Remote clock offset: 1.341 ms

Below is generated by plot.py at 2017-09-18 15:09:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 223.85 Mbit/s

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

Loss rate: 0.02%

-- Flow 1:

Average throughput: 140.98 Mbit/s

95th percentile per-packet one-way delay: 2.328 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 91.04 Mbit/s

95th percentile per-packet one-way delay: 2.341 ms

Loss rate: 0.02%

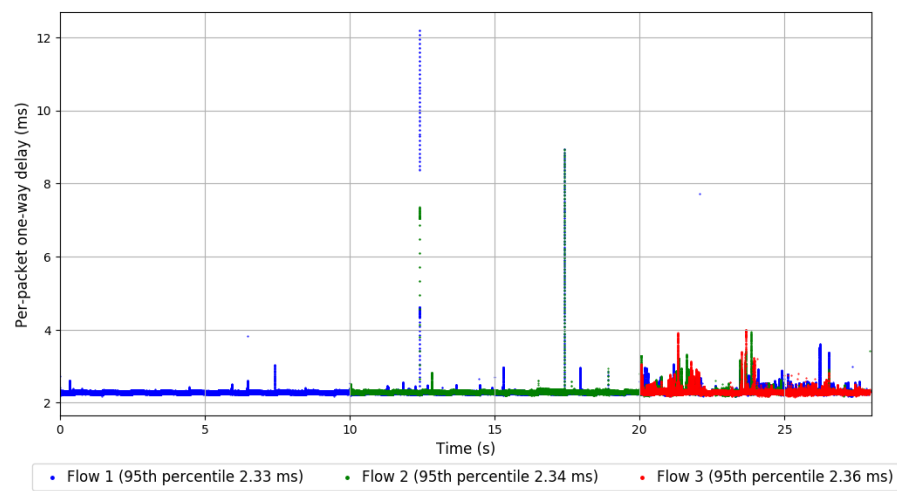
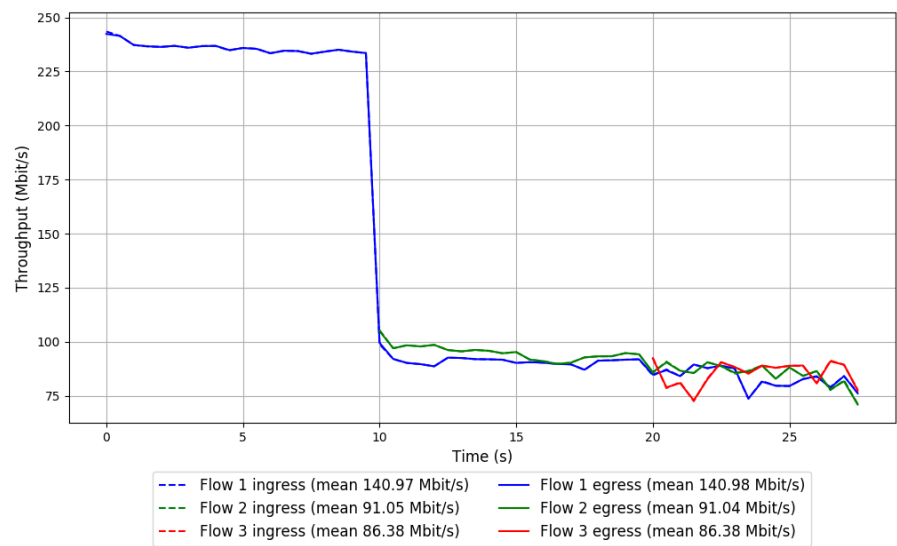
-- Flow 3:

Average throughput: 86.38 Mbit/s

95th percentile per-packet one-way delay: 2.356 ms

Loss rate: 0.06%

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



Run 7: Statistics of TaoVA-100x

Start at: 2017-09-18 09:49:25

End at: 2017-09-18 09:49:55

Local clock offset: -1.703 ms

Remote clock offset: 1.446 ms

Below is generated by plot.py at 2017-09-18 15:12:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 233.97 Mbit/s

95th percentile per-packet one-way delay: 2.392 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 147.33 Mbit/s

95th percentile per-packet one-way delay: 2.387 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 97.08 Mbit/s

95th percentile per-packet one-way delay: 2.398 ms

Loss rate: 0.02%

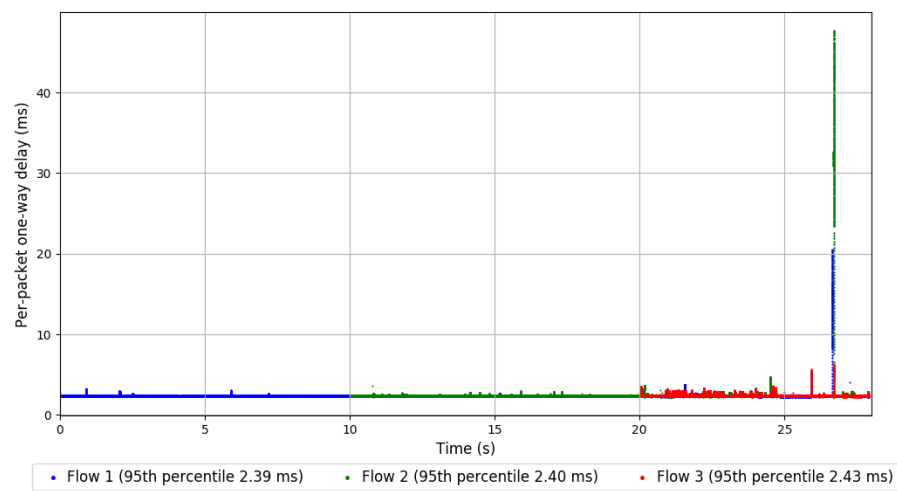
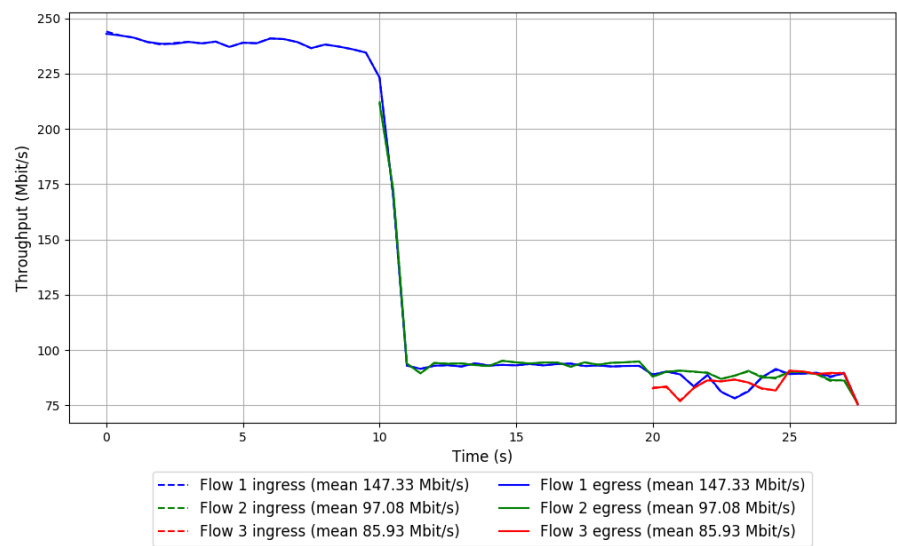
-- Flow 3:

Average throughput: 85.93 Mbit/s

95th percentile per-packet one-way delay: 2.433 ms

Loss rate: 0.06%

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



Run 8: Statistics of TaoVA-100x

Start at: 2017-09-18 10:03:41

End at: 2017-09-18 10:04:11

Local clock offset: -1.805 ms

Remote clock offset: 1.643 ms

Below is generated by plot.py at 2017-09-18 15:12:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 233.76 Mbit/s

95th percentile per-packet one-way delay: 2.349 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 147.33 Mbit/s

95th percentile per-packet one-way delay: 2.345 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 96.01 Mbit/s

95th percentile per-packet one-way delay: 2.357 ms

Loss rate: 0.02%

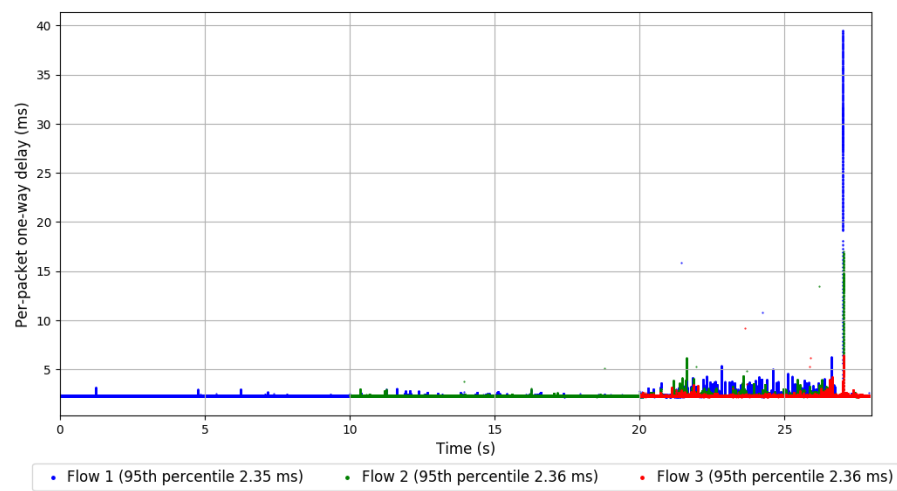
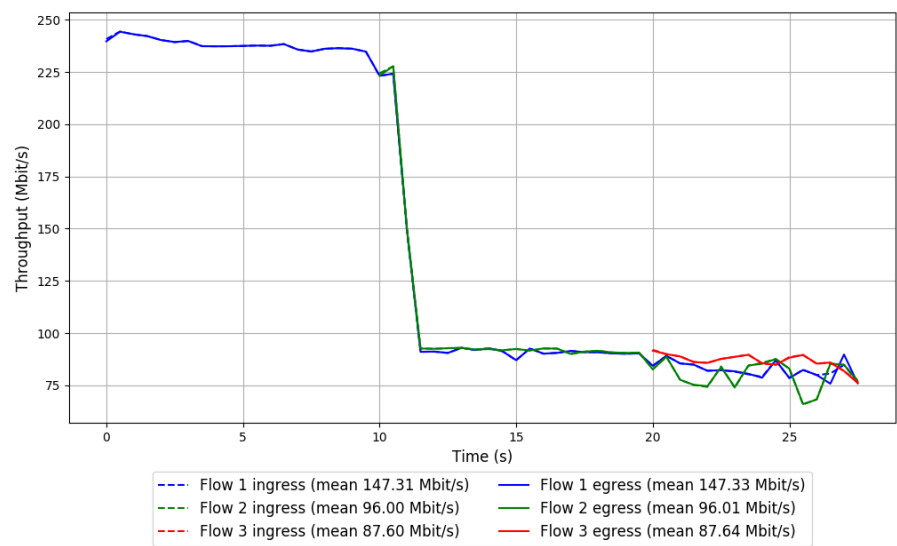
-- Flow 3:

Average throughput: 87.64 Mbit/s

95th percentile per-packet one-way delay: 2.357 ms

Loss rate: 0.06%

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



Run 9: Statistics of TaoVA-100x

Start at: 2017-09-18 10:18:04

End at: 2017-09-18 10:18:34

Local clock offset: -1.953 ms

Remote clock offset: 1.461 ms

Below is generated by plot.py at 2017-09-18 15:13:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 233.13 Mbit/s

95th percentile per-packet one-way delay: 2.386 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 143.11 Mbit/s

95th percentile per-packet one-way delay: 2.383 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 101.30 Mbit/s

95th percentile per-packet one-way delay: 2.392 ms

Loss rate: 0.02%

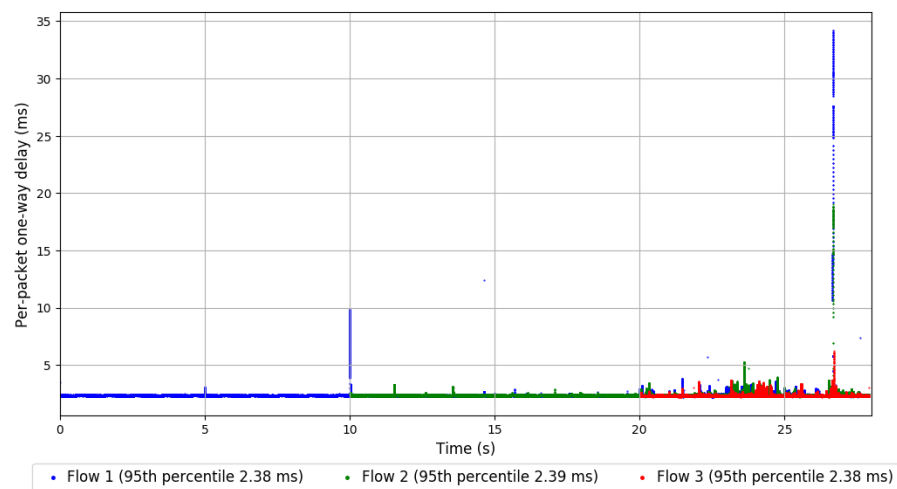
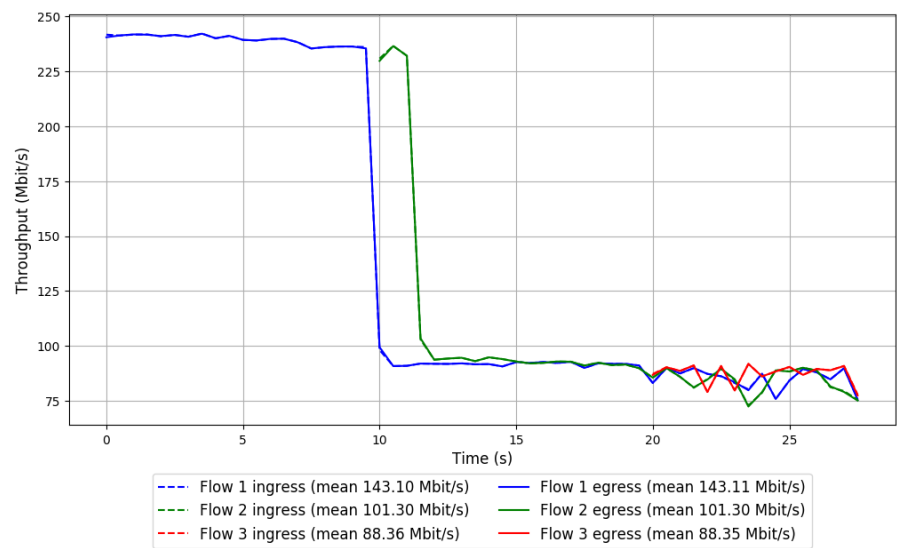
-- Flow 3:

Average throughput: 88.35 Mbit/s

95th percentile per-packet one-way delay: 2.384 ms

Loss rate: 0.06%

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



Run 10: Statistics of TaoVA-100x

Start at: 2017-09-18 10:32:24

End at: 2017-09-18 10:32:54

Local clock offset: -2.008 ms

Remote clock offset: 1.333 ms

Below is generated by plot.py at 2017-09-18 15:14:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 224.61 Mbit/s

95th percentile per-packet one-way delay: 2.333 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 142.19 Mbit/s

95th percentile per-packet one-way delay: 2.331 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 90.93 Mbit/s

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

Loss rate: 0.03%

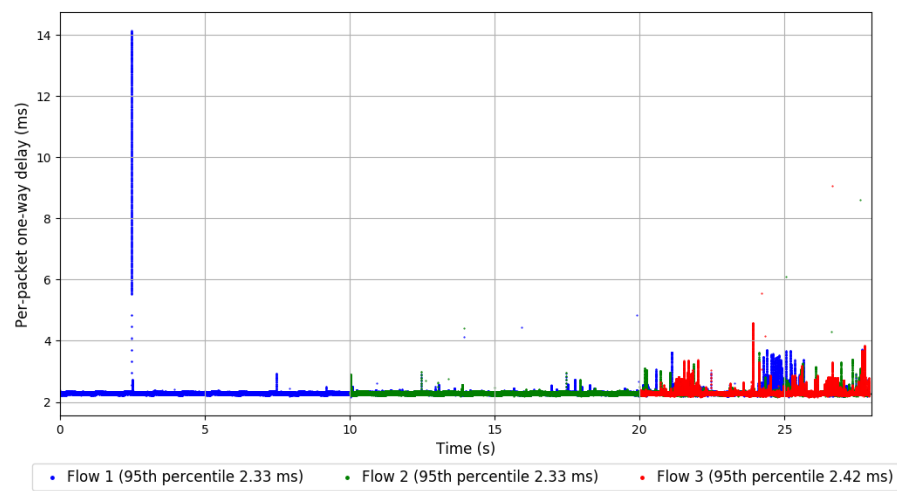
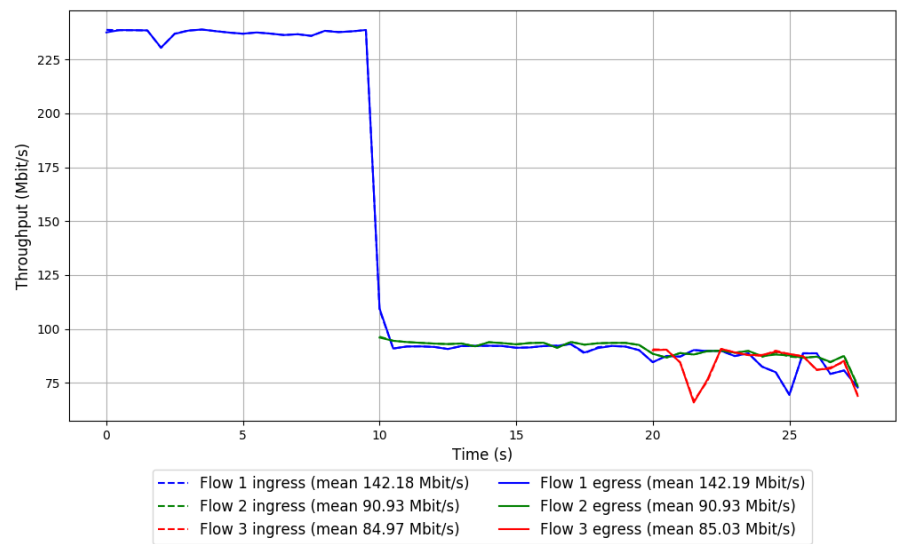
-- Flow 3:

Average throughput: 85.03 Mbit/s

95th percentile per-packet one-way delay: 2.416 ms

Loss rate: 0.04%

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



Run 1: Statistics of TCP Vegas

Start at: 2017-09-18 08:27:48

End at: 2017-09-18 08:28:18

Local clock offset: -1.845 ms

Remote clock offset: 0.294 ms

Below is generated by plot.py at 2017-09-18 15:21:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 874.45 Mbit/s

95th percentile per-packet one-way delay: 3.717 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 499.04 Mbit/s

95th percentile per-packet one-way delay: 2.970 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 409.19 Mbit/s

95th percentile per-packet one-way delay: 4.150 ms

Loss rate: 0.02%

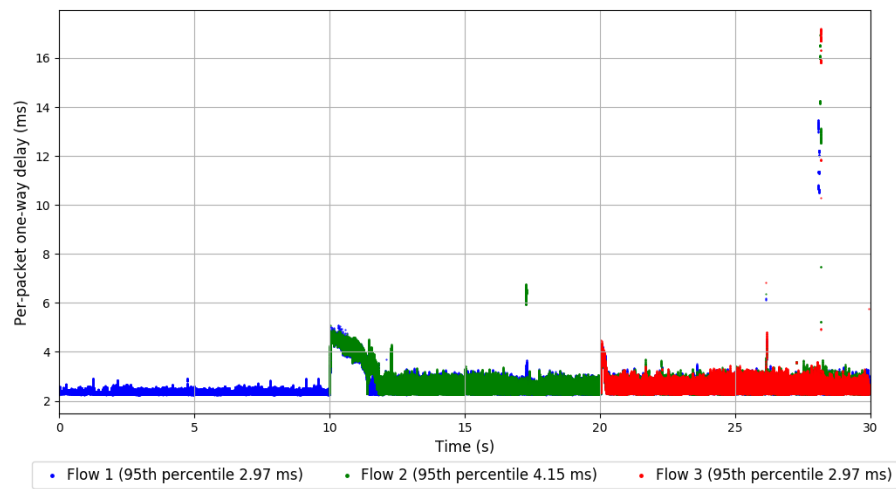
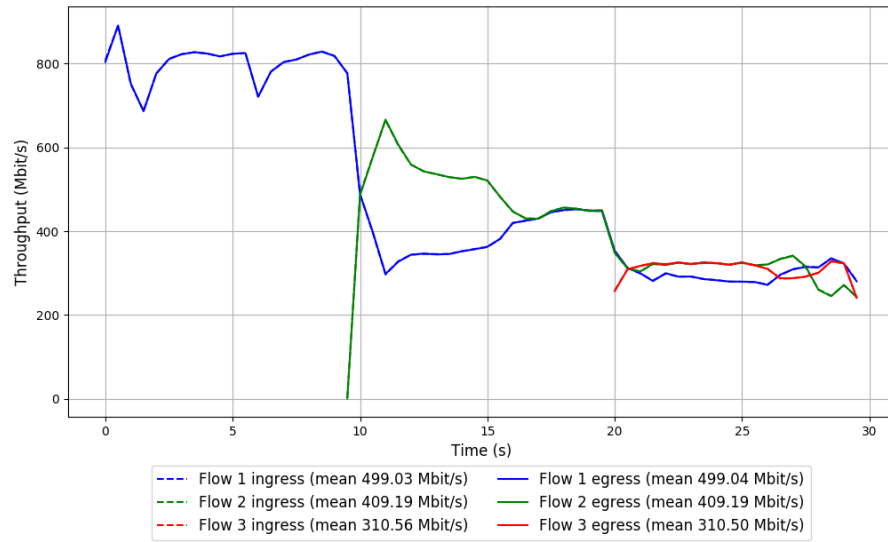
-- Flow 3:

Average throughput: 310.50 Mbit/s

95th percentile per-packet one-way delay: 2.966 ms

Loss rate: 0.03%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2017-09-18 08:42:05

End at: 2017-09-18 08:42:35

Local clock offset: -1.861 ms

Remote clock offset: 0.561 ms

Below is generated by plot.py at 2017-09-18 15:21:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 709.05 Mbit/s

95th percentile per-packet one-way delay: 2.892 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 327.44 Mbit/s

95th percentile per-packet one-way delay: 2.827 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 392.30 Mbit/s

95th percentile per-packet one-way delay: 2.891 ms

Loss rate: 0.02%

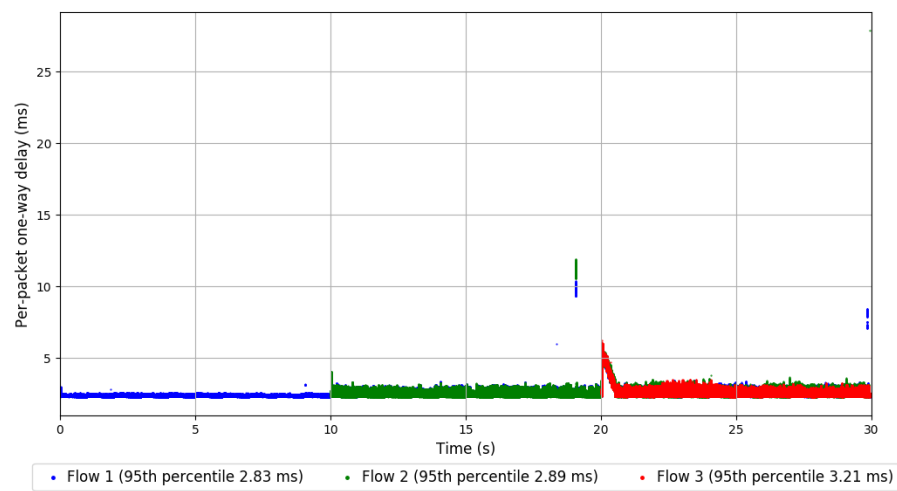
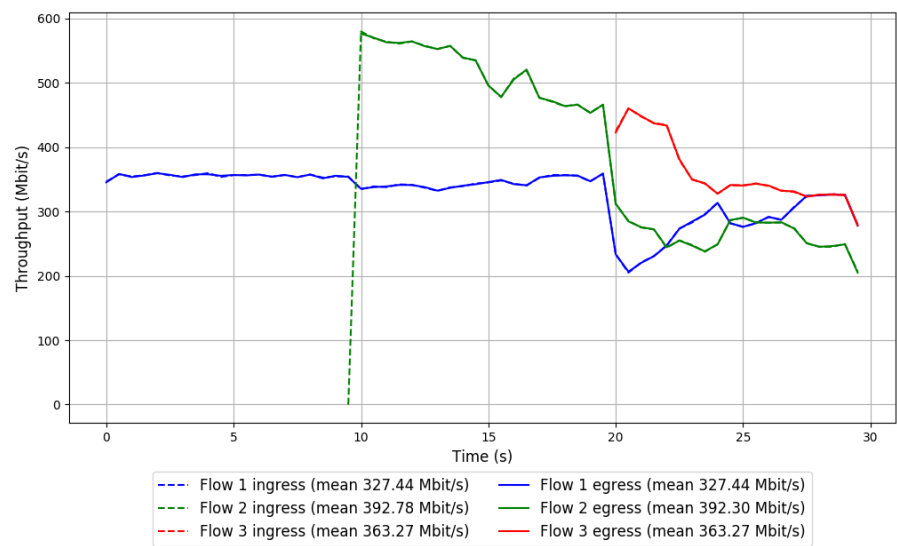
-- Flow 3:

Average throughput: 363.27 Mbit/s

95th percentile per-packet one-way delay: 3.211 ms

Loss rate: 0.05%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2017-09-18 08:56:21

End at: 2017-09-18 08:56:51

Local clock offset: -1.998 ms

Remote clock offset: 0.821 ms

Below is generated by plot.py at 2017-09-18 15:21:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 710.05 Mbit/s

95th percentile per-packet one-way delay: 2.794 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 301.11 Mbit/s

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

Loss rate: 0.02%

-- Flow 2:

Average throughput: 449.62 Mbit/s

95th percentile per-packet one-way delay: 2.734 ms

Loss rate: 0.02%

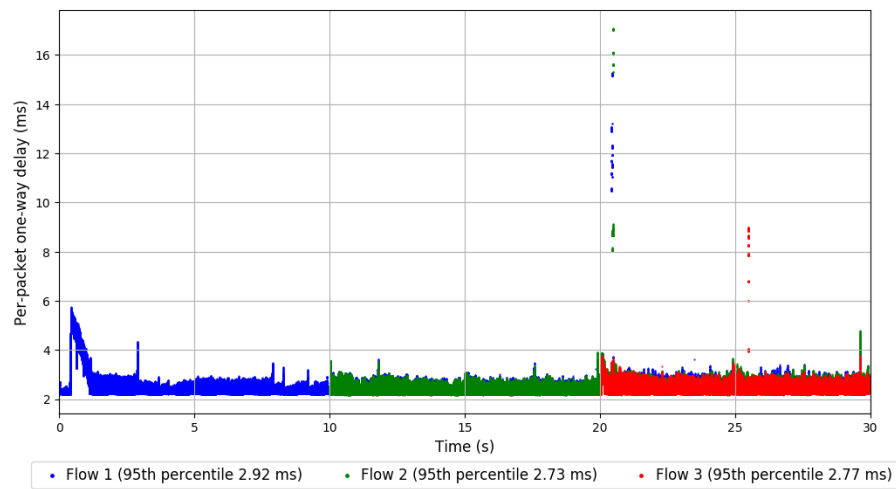
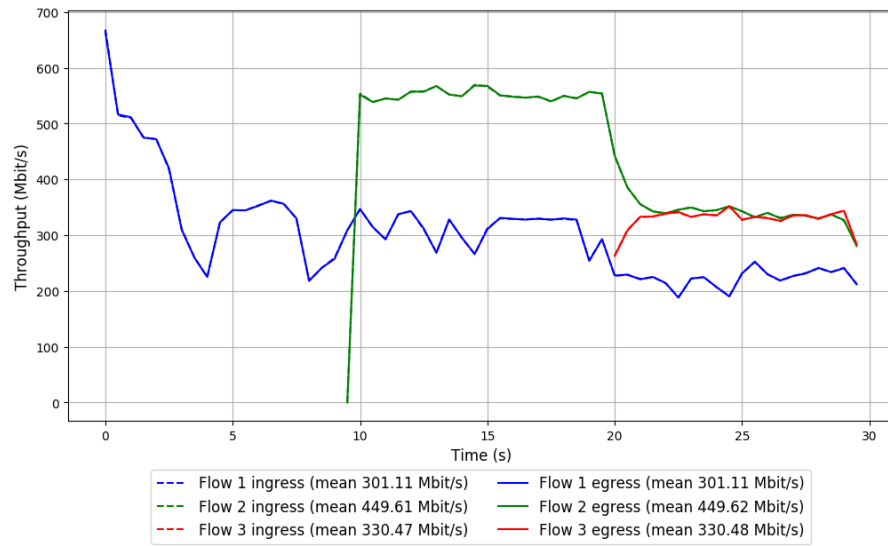
-- Flow 3:

Average throughput: 330.48 Mbit/s

95th percentile per-packet one-way delay: 2.774 ms

Loss rate: 0.04%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2017-09-18 09:10:36

End at: 2017-09-18 09:11:06

Local clock offset: -1.79 ms

Remote clock offset: 0.966 ms

Below is generated by plot.py at 2017-09-18 15:21:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 757.30 Mbit/s

95th percentile per-packet one-way delay: 2.856 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 525.91 Mbit/s

95th percentile per-packet one-way delay: 2.789 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 144.37 Mbit/s

95th percentile per-packet one-way delay: 2.898 ms

Loss rate: 0.07%

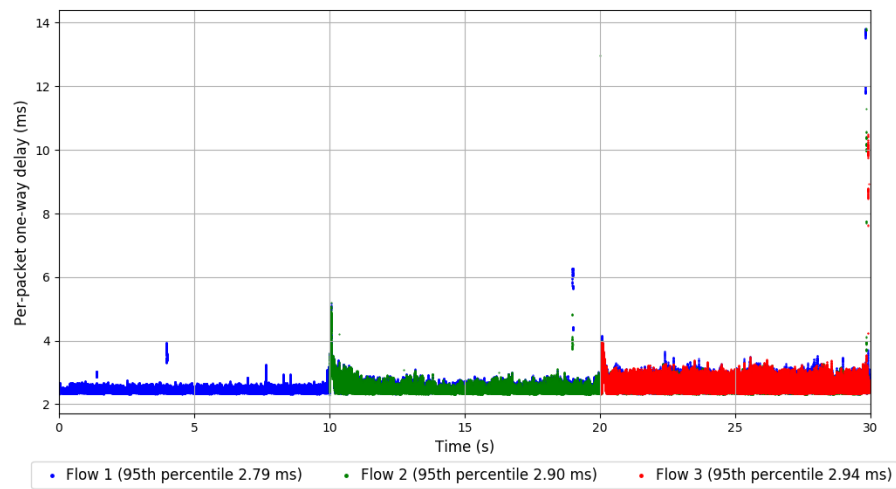
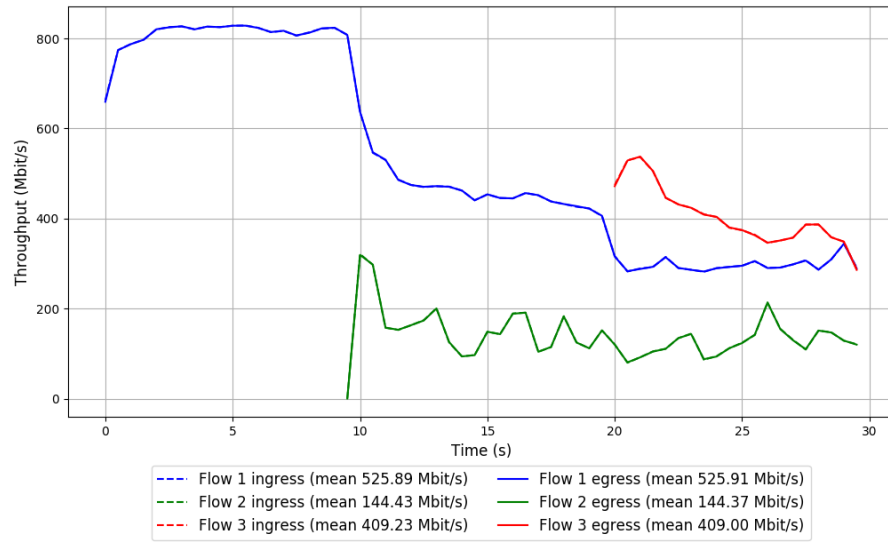
-- Flow 3:

Average throughput: 409.00 Mbit/s

95th percentile per-packet one-way delay: 2.943 ms

Loss rate: 0.04%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2017-09-18 09:24:51

End at: 2017-09-18 09:25:21

Local clock offset: -1.665 ms

Remote clock offset: 1.183 ms

Below is generated by plot.py at 2017-09-18 15:23:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 760.88 Mbit/s

95th percentile per-packet one-way delay: 3.129 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 427.52 Mbit/s

95th percentile per-packet one-way delay: 3.865 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 335.66 Mbit/s

95th percentile per-packet one-way delay: 2.901 ms

Loss rate: 0.02%

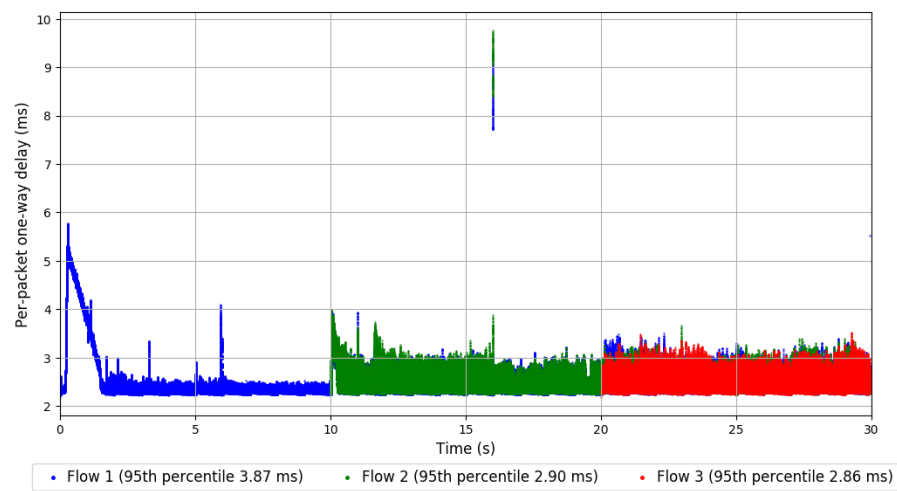
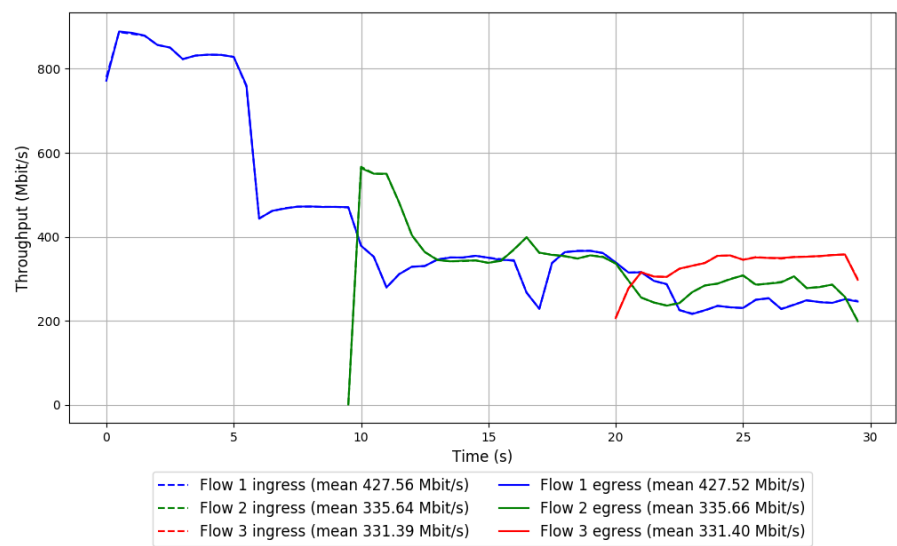
-- Flow 3:

Average throughput: 331.40 Mbit/s

95th percentile per-packet one-way delay: 2.857 ms

Loss rate: 0.05%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2017-09-18 09:39:09

End at: 2017-09-18 09:39:39

Local clock offset: -1.736 ms

Remote clock offset: 1.323 ms

Below is generated by plot.py at 2017-09-18 15:23:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 756.17 Mbit/s

95th percentile per-packet one-way delay: 3.749 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 505.03 Mbit/s

95th percentile per-packet one-way delay: 4.234 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 188.43 Mbit/s

95th percentile per-packet one-way delay: 2.806 ms

Loss rate: 0.03%

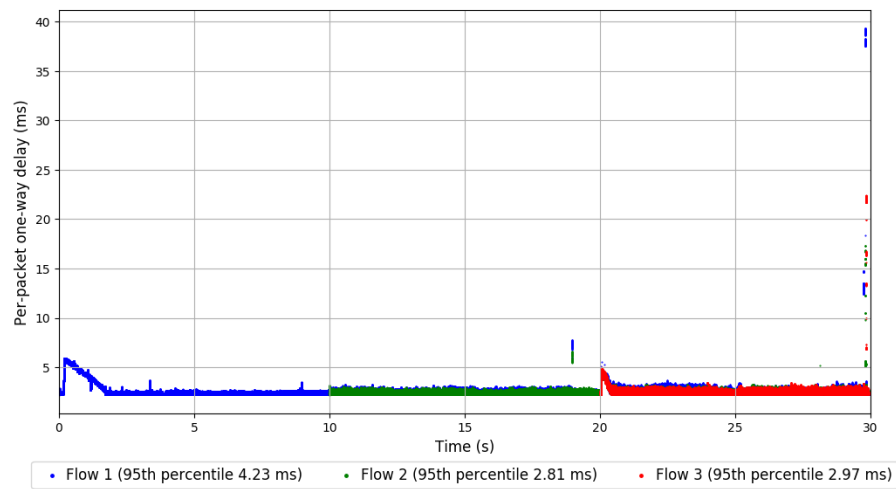
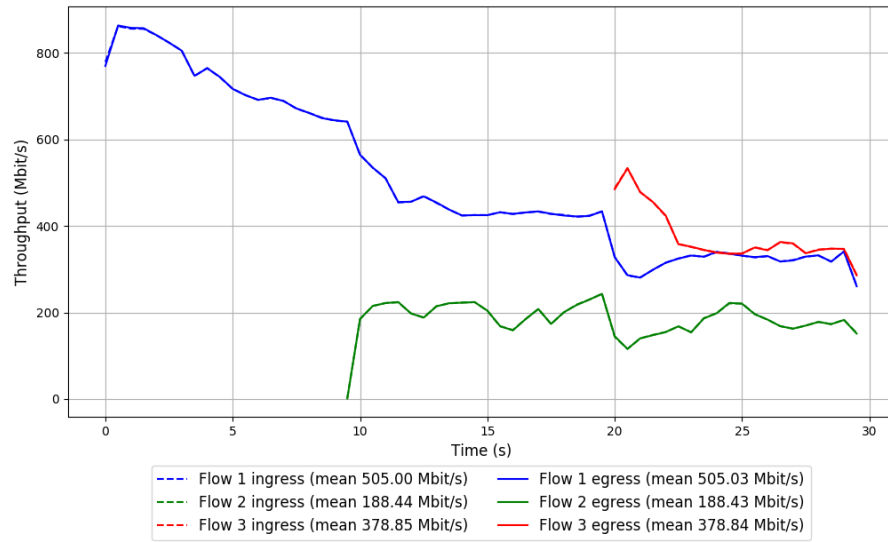
-- Flow 3:

Average throughput: 378.84 Mbit/s

95th percentile per-packet one-way delay: 2.966 ms

Loss rate: 0.04%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2017-09-18 09:53:28

End at: 2017-09-18 09:53:58

Local clock offset: -1.786 ms

Remote clock offset: 1.536 ms

Below is generated by plot.py at 2017-09-18 15:24:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 783.89 Mbit/s

95th percentile per-packet one-way delay: 2.647 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 485.41 Mbit/s

95th percentile per-packet one-way delay: 2.583 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 271.16 Mbit/s

95th percentile per-packet one-way delay: 2.677 ms

Loss rate: 0.02%

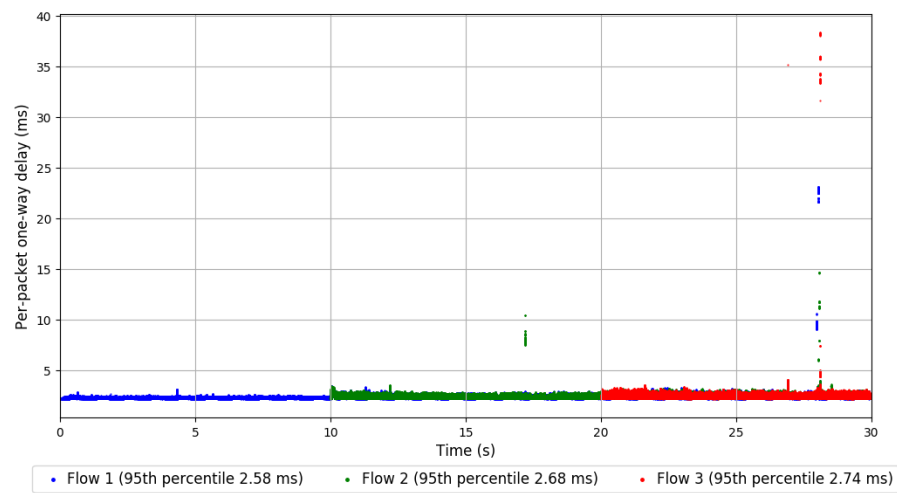
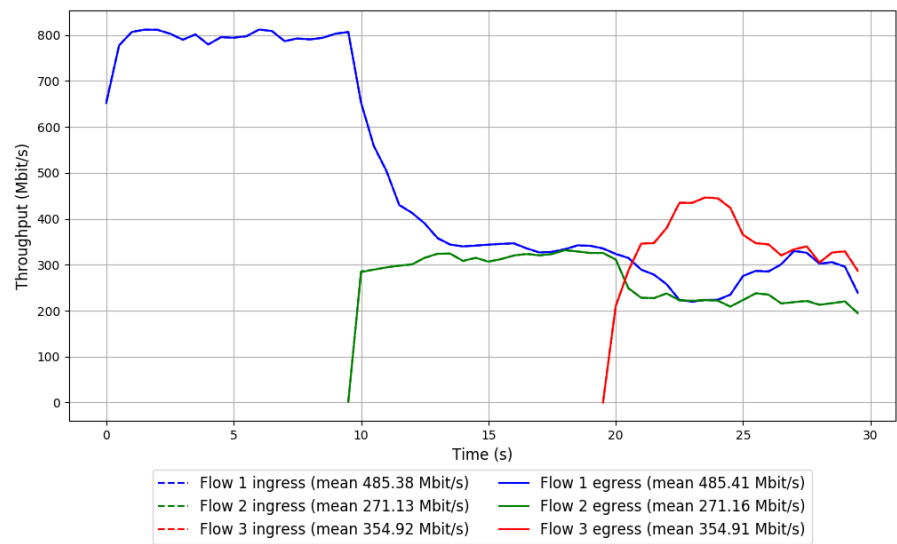
-- Flow 3:

Average throughput: 354.91 Mbit/s

95th percentile per-packet one-way delay: 2.742 ms

Loss rate: 0.05%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2017-09-18 10:07:45

End at: 2017-09-18 10:08:15

Local clock offset: -1.859 ms

Remote clock offset: 1.546 ms

Below is generated by plot.py at 2017-09-18 15:25:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 803.38 Mbit/s

95th percentile per-packet one-way delay: 2.977 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 476.36 Mbit/s

95th percentile per-packet one-way delay: 3.131 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 342.62 Mbit/s

95th percentile per-packet one-way delay: 2.929 ms

Loss rate: 0.02%

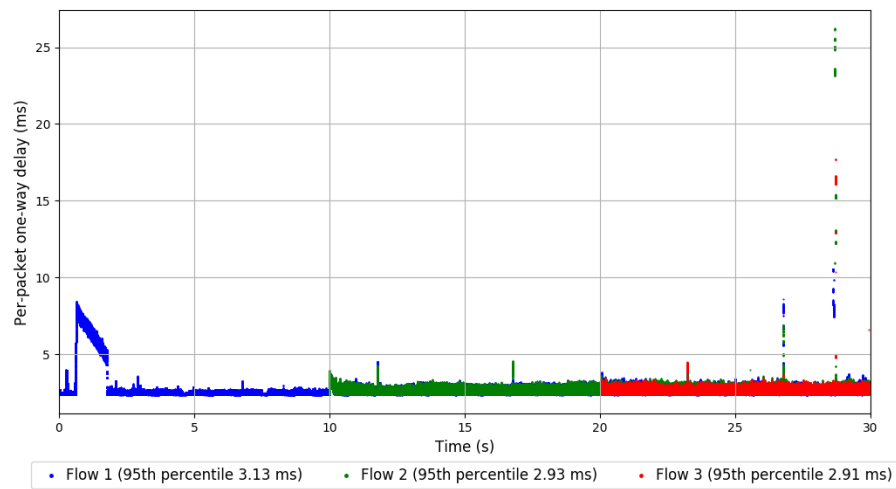
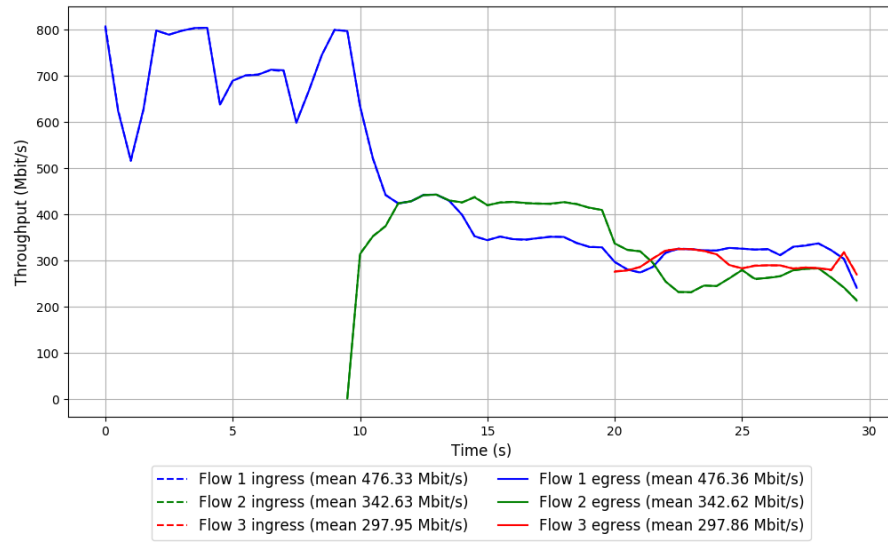
-- Flow 3:

Average throughput: 297.86 Mbit/s

95th percentile per-packet one-way delay: 2.913 ms

Loss rate: 0.05%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2017-09-18 10:22:07

End at: 2017-09-18 10:22:37

Local clock offset: -1.983 ms

Remote clock offset: 1.423 ms

Below is generated by plot.py at 2017-09-18 15:31:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 850.23 Mbit/s

95th percentile per-packet one-way delay: 3.181 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 477.70 Mbit/s

95th percentile per-packet one-way delay: 3.736 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 404.62 Mbit/s

95th percentile per-packet one-way delay: 3.005 ms

Loss rate: 0.02%

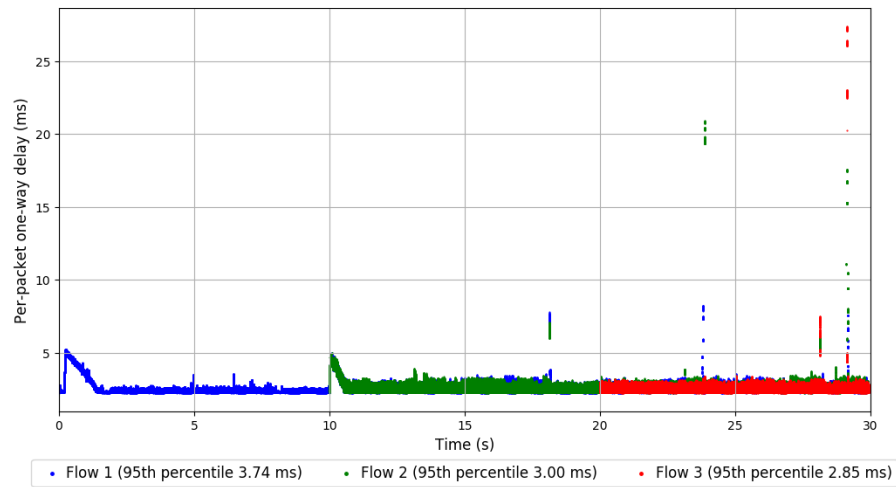
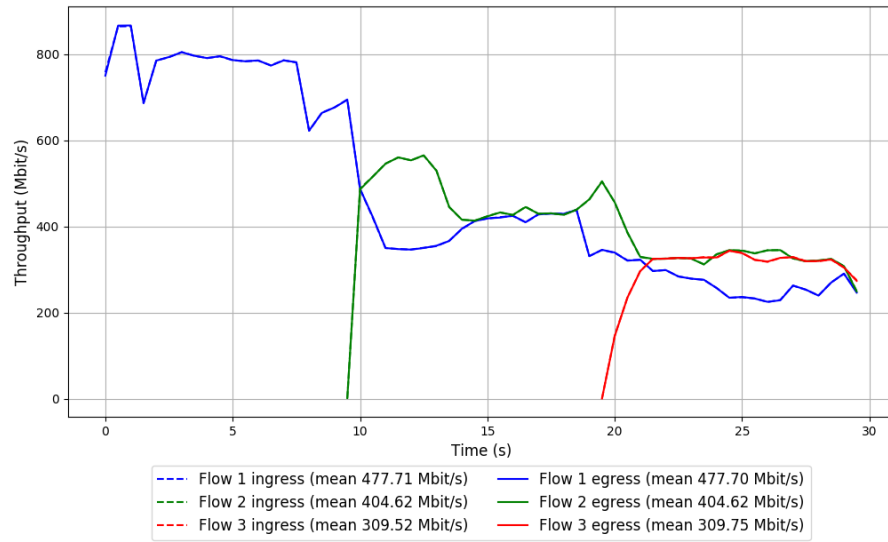
-- Flow 3:

Average throughput: 309.75 Mbit/s

95th percentile per-packet one-way delay: 2.851 ms

Loss rate: 0.04%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2017-09-18 10:36:27

End at: 2017-09-18 10:36:57

Local clock offset: -2.061 ms

Remote clock offset: 1.1 ms

Below is generated by plot.py at 2017-09-18 15:31:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 737.74 Mbit/s

95th percentile per-packet one-way delay: 3.039 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 362.22 Mbit/s

95th percentile per-packet one-way delay: 2.765 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 399.40 Mbit/s

95th percentile per-packet one-way delay: 3.880 ms

Loss rate: 0.02%

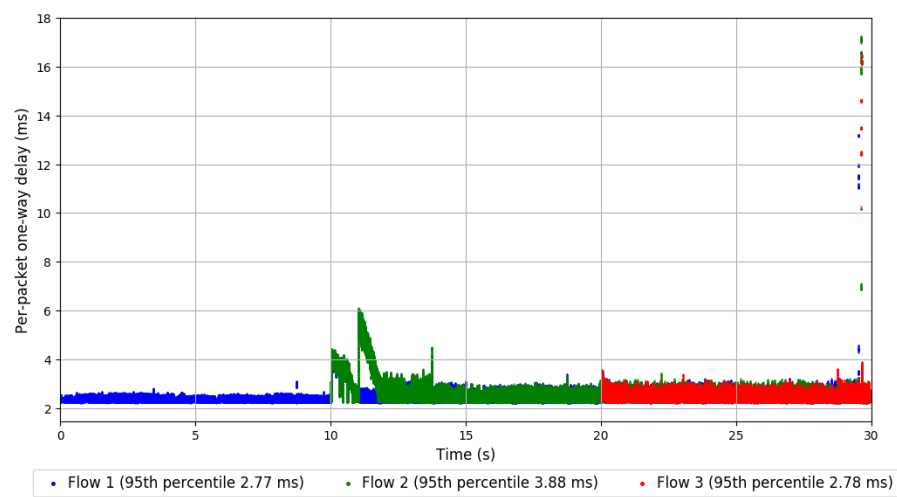
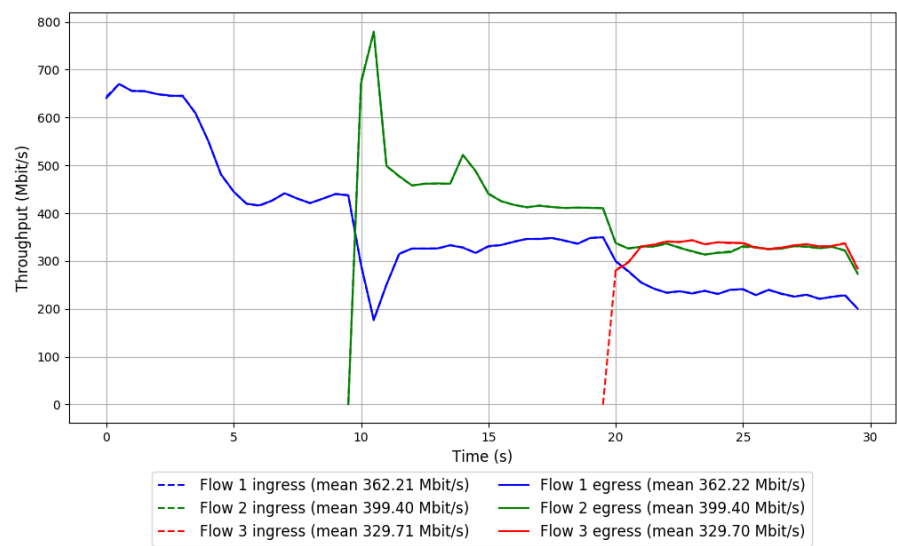
-- Flow 3:

Average throughput: 329.70 Mbit/s

95th percentile per-packet one-way delay: 2.782 ms

Loss rate: 0.05%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2017-09-18 08:29:28

End at: 2017-09-18 08:29:58

Local clock offset: -1.907 ms

Remote clock offset: 0.319 ms

Below is generated by plot.py at 2017-09-18 15:31:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 356.04 Mbit/s

95th percentile per-packet one-way delay: 4.035 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 210.29 Mbit/s

95th percentile per-packet one-way delay: 4.538 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 156.12 Mbit/s

95th percentile per-packet one-way delay: 3.185 ms

Loss rate: 0.03%

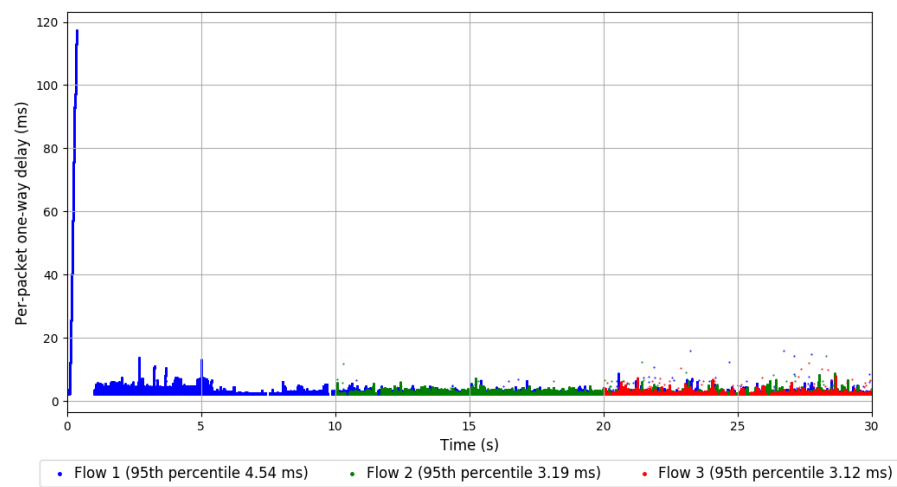
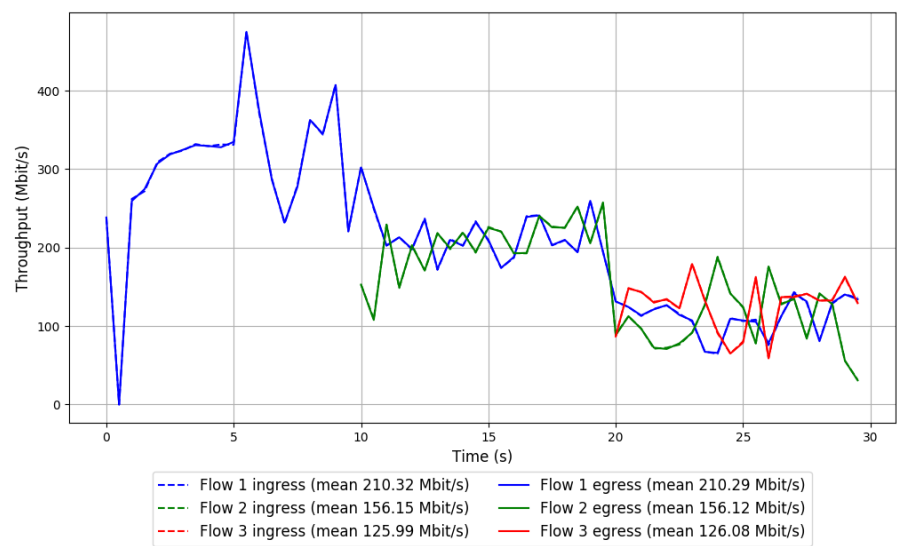
-- Flow 3:

Average throughput: 126.08 Mbit/s

95th percentile per-packet one-way delay: 3.120 ms

Loss rate: 0.02%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2017-09-18 08:43:38

End at: 2017-09-18 08:44:08

Local clock offset: -1.857 ms

Remote clock offset: 0.599 ms

Below is generated by plot.py at 2017-09-18 15:31:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 338.87 Mbit/s

95th percentile per-packet one-way delay: 4.301 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 216.23 Mbit/s

95th percentile per-packet one-way delay: 3.694 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 128.99 Mbit/s

95th percentile per-packet one-way delay: 4.771 ms

Loss rate: 0.00%

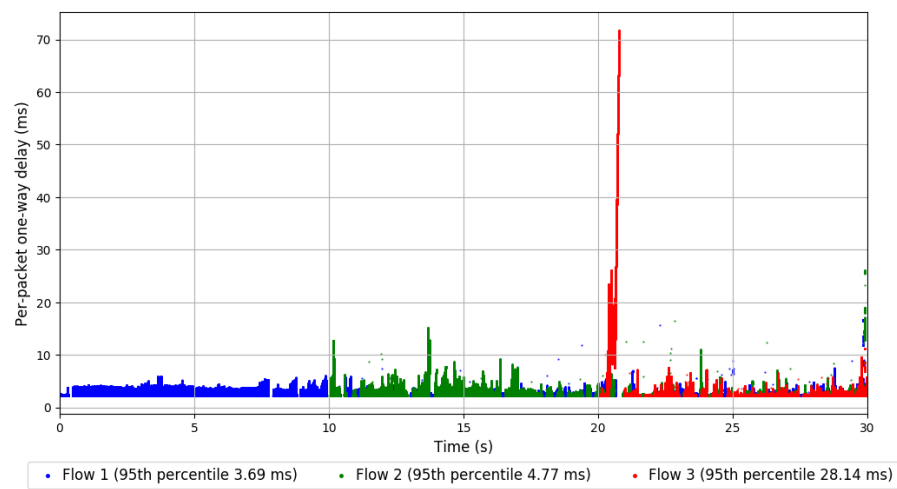
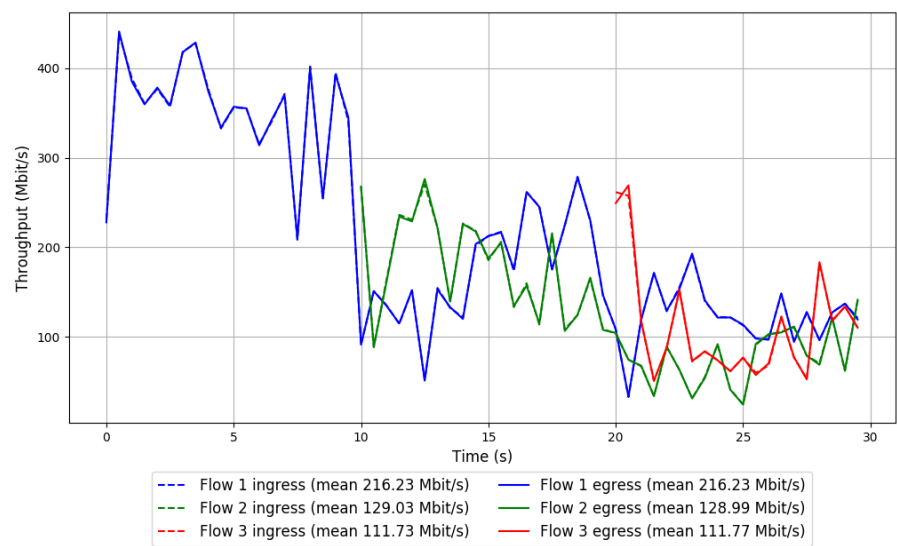
-- Flow 3:

Average throughput: 111.77 Mbit/s

95th percentile per-packet one-way delay: 28.142 ms

Loss rate: 0.01%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2017-09-18 08:57:55

End at: 2017-09-18 08:58:25

Local clock offset: -1.957 ms

Remote clock offset: 0.793 ms

Below is generated by plot.py at 2017-09-18 15:31:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 339.14 Mbit/s

95th percentile per-packet one-way delay: 4.008 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 187.92 Mbit/s

95th percentile per-packet one-way delay: 4.103 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 156.01 Mbit/s

95th percentile per-packet one-way delay: 3.990 ms

Loss rate: 0.01%

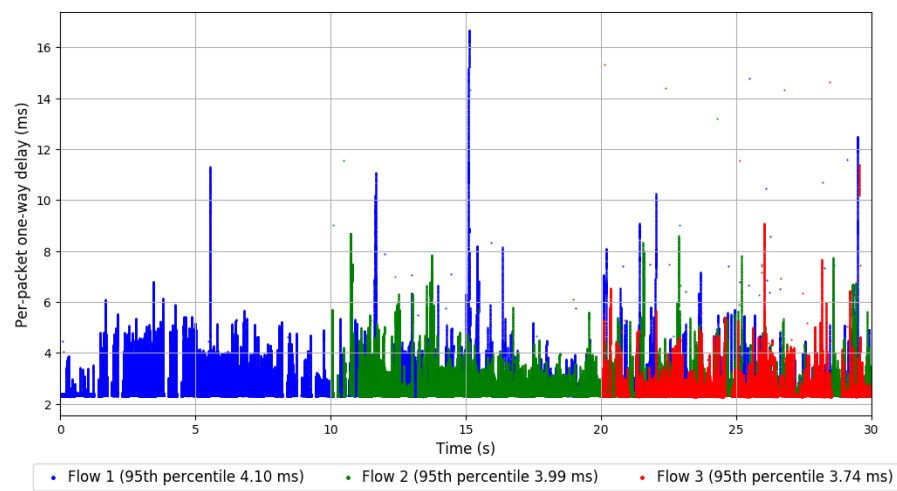
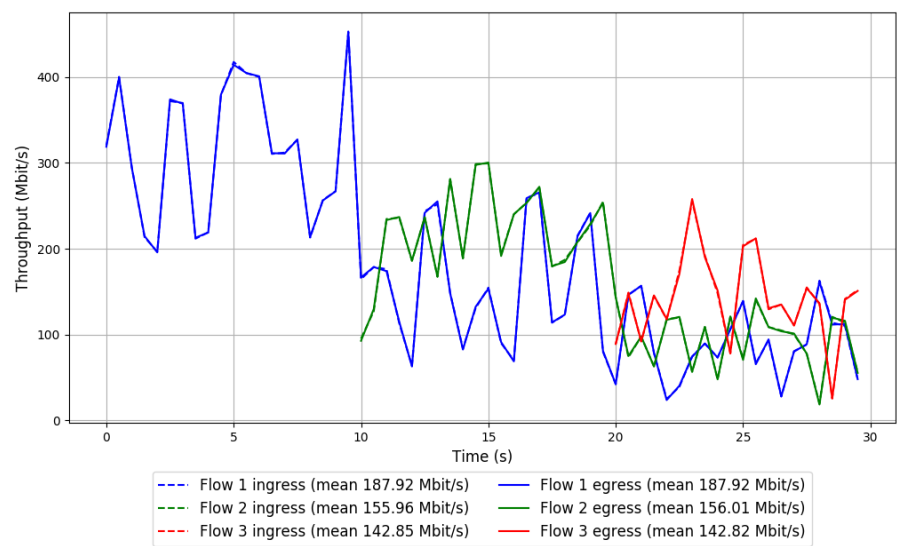
-- Flow 3:

Average throughput: 142.82 Mbit/s

95th percentile per-packet one-way delay: 3.743 ms

Loss rate: 0.07%

Run 3: Report of Verus — Data Link

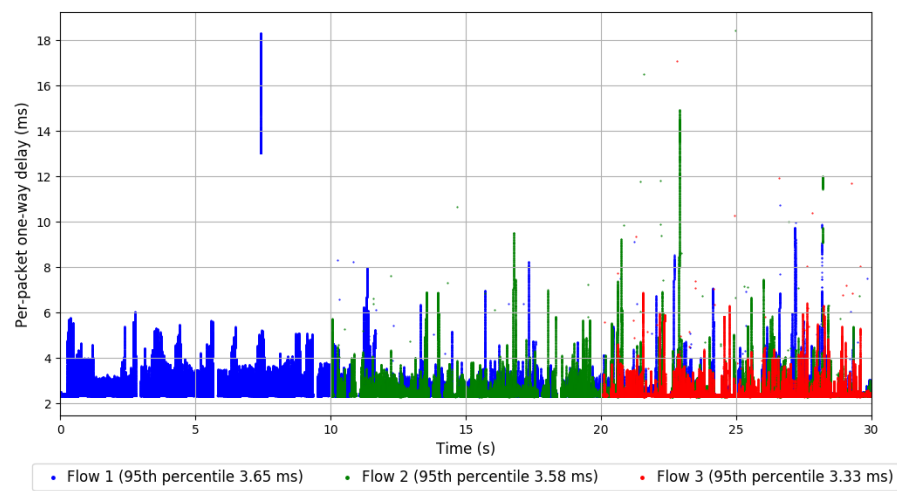
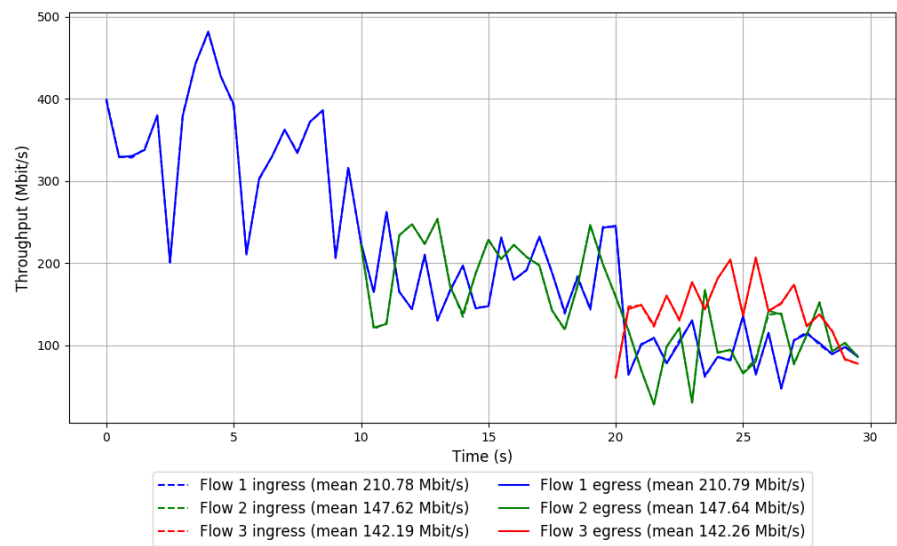


Run 4: Statistics of Verus

Start at: 2017-09-18 09:12:12
End at: 2017-09-18 09:12:42
Local clock offset: -1.784 ms
Remote clock offset: 0.996 ms

Below is generated by plot.py at 2017-09-18 15:31:23
Datalink statistics
-- Total of 3 flows:
Average throughput: 356.20 Mbit/s
95th percentile per-packet one-way delay: 3.587 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 210.79 Mbit/s
95th percentile per-packet one-way delay: 3.650 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 147.64 Mbit/s
95th percentile per-packet one-way delay: 3.583 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 142.26 Mbit/s
95th percentile per-packet one-way delay: 3.333 ms
Loss rate: 0.00%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2017-09-18 09:26:27

End at: 2017-09-18 09:26:57

Local clock offset: -1.623 ms

Remote clock offset: 1.227 ms

Below is generated by plot.py at 2017-09-18 15:31:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 344.42 Mbit/s

95th percentile per-packet one-way delay: 3.370 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 193.70 Mbit/s

95th percentile per-packet one-way delay: 3.564 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 160.63 Mbit/s

95th percentile per-packet one-way delay: 3.148 ms

Loss rate: 0.01%

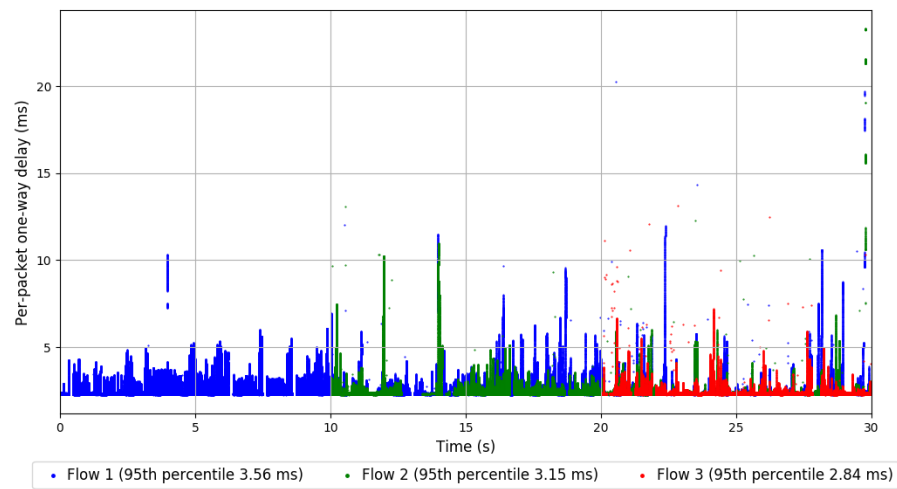
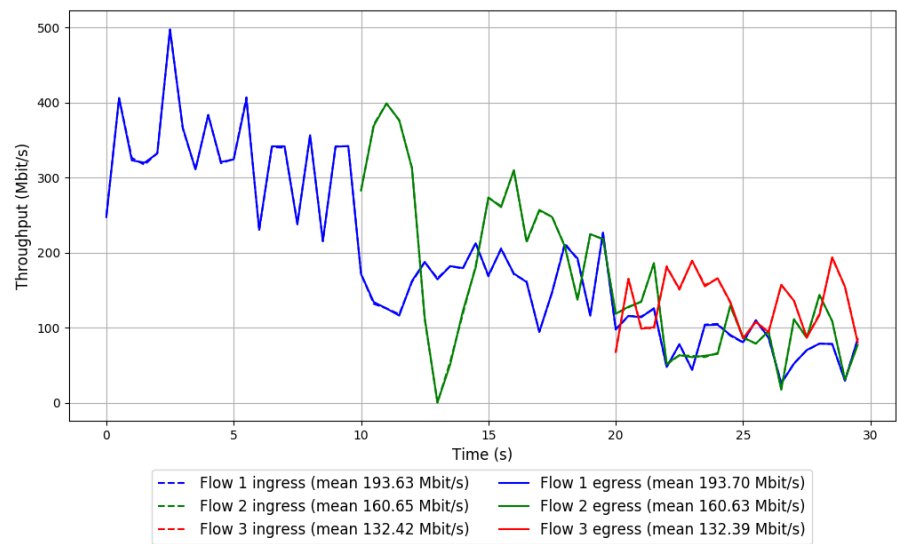
-- Flow 3:

Average throughput: 132.39 Mbit/s

95th percentile per-packet one-way delay: 2.844 ms

Loss rate: 0.08%

Run 5: Report of Verus — Data Link

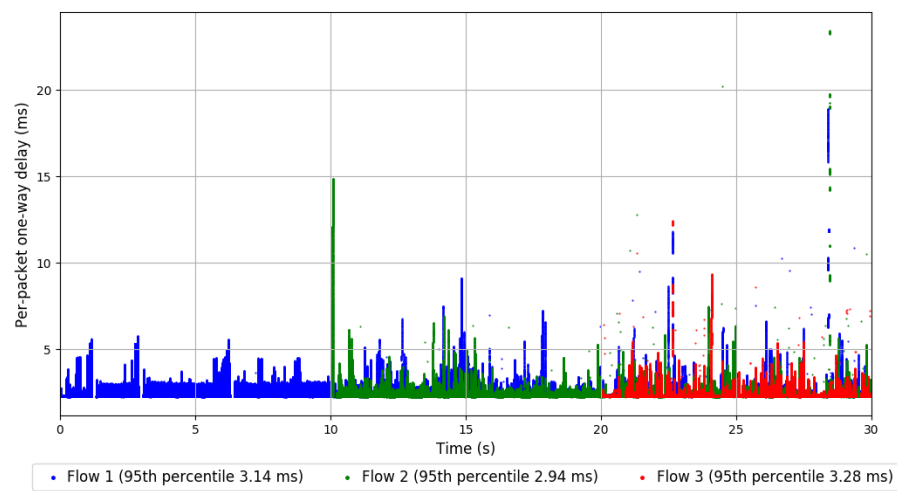
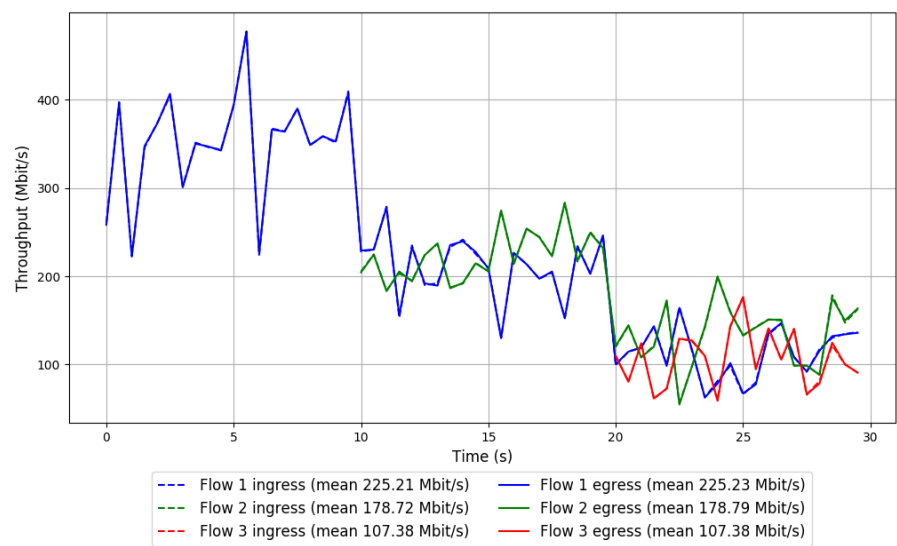


Run 6: Statistics of Verus

Start at: 2017-09-18 09:40:44
End at: 2017-09-18 09:41:14
Local clock offset: -1.674 ms
Remote clock offset: 1.42 ms

```
# Below is generated by plot.py at 2017-09-18 15:31:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 379.84 Mbit/s
95th percentile per-packet one-way delay: 3.098 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 225.23 Mbit/s
95th percentile per-packet one-way delay: 3.141 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 178.79 Mbit/s
95th percentile per-packet one-way delay: 2.936 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 107.38 Mbit/s
95th percentile per-packet one-way delay: 3.282 ms
Loss rate: 0.00%
```

Run 6: Report of Verus — Data Link

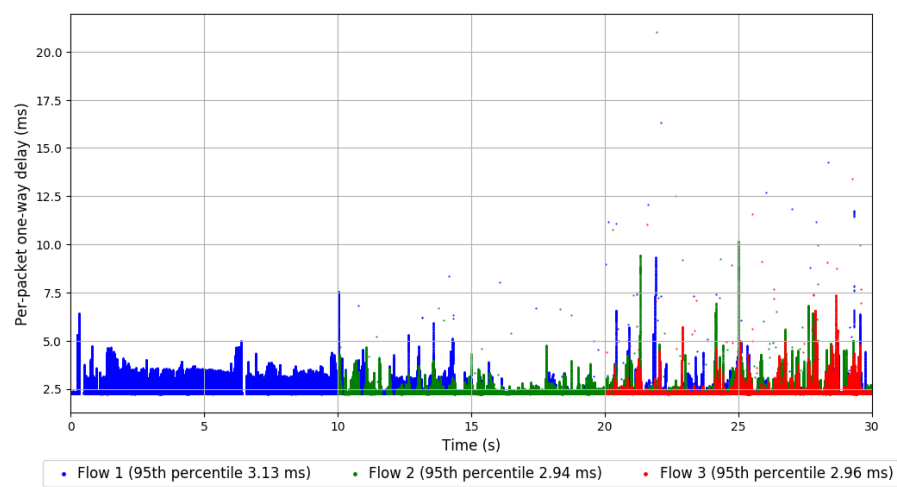
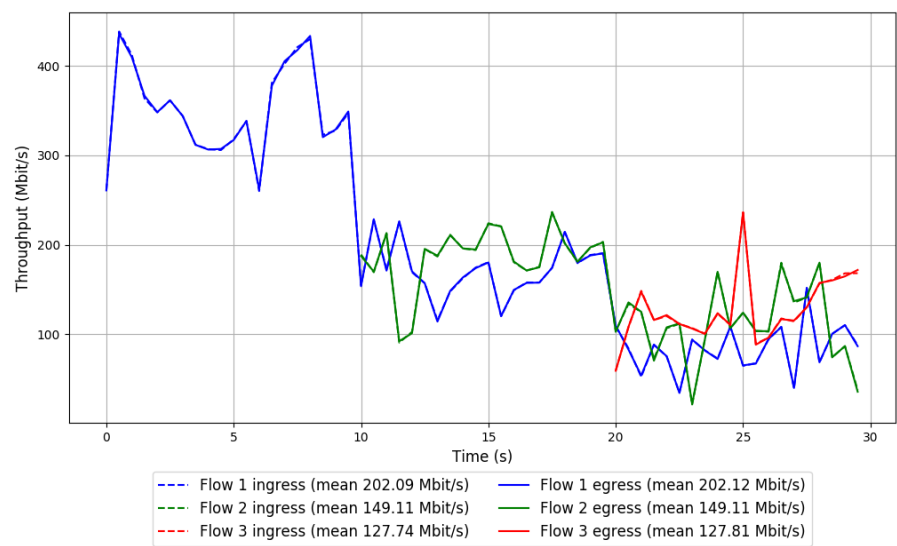


Run 7: Statistics of Verus

Start at: 2017-09-18 09:55:04
End at: 2017-09-18 09:55:34
Local clock offset: -1.712 ms
Remote clock offset: 1.554 ms

Below is generated by plot.py at 2017-09-18 15:31:23
Datalink statistics
-- Total of 3 flows:
Average throughput: 343.76 Mbit/s
95th percentile per-packet one-way delay: 3.069 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 202.12 Mbit/s
95th percentile per-packet one-way delay: 3.135 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 149.11 Mbit/s
95th percentile per-packet one-way delay: 2.935 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 127.81 Mbit/s
95th percentile per-packet one-way delay: 2.964 ms
Loss rate: 0.04%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2017-09-18 10:09:22

End at: 2017-09-18 10:09:52

Local clock offset: -1.984 ms

Remote clock offset: 1.618 ms

Below is generated by plot.py at 2017-09-18 15:31:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 375.82 Mbit/s

95th percentile per-packet one-way delay: 3.588 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 219.35 Mbit/s

95th percentile per-packet one-way delay: 3.532 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 174.33 Mbit/s

95th percentile per-packet one-way delay: 3.594 ms

Loss rate: 0.00%

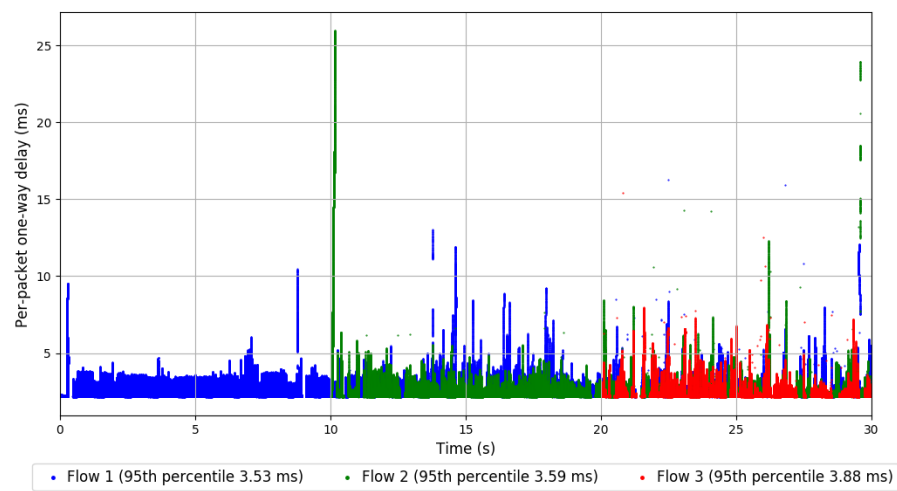
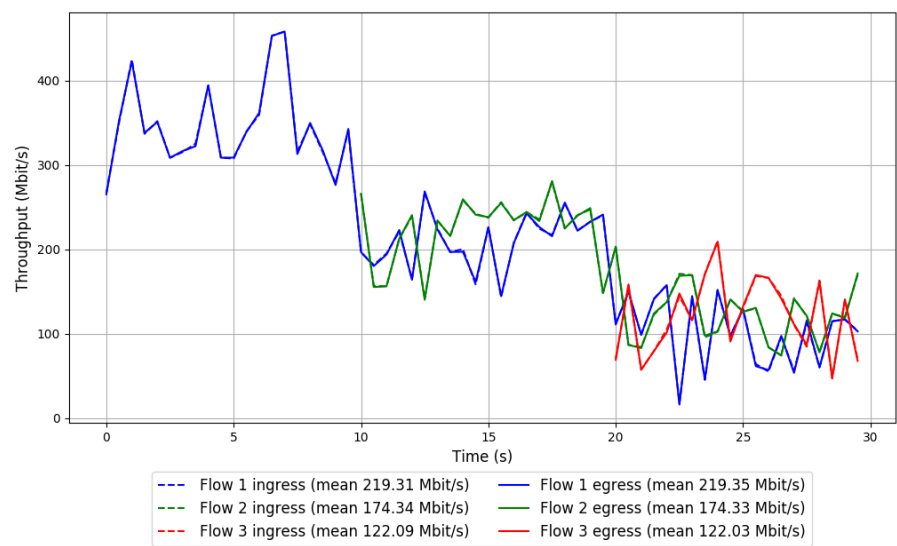
-- Flow 3:

Average throughput: 122.03 Mbit/s

95th percentile per-packet one-way delay: 3.878 ms

Loss rate: 0.08%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2017-09-18 10:23:45

End at: 2017-09-18 10:24:15

Local clock offset: -1.936 ms

Remote clock offset: 1.457 ms

Below is generated by plot.py at 2017-09-18 15:31:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 330.67 Mbit/s

95th percentile per-packet one-way delay: 3.829 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 193.80 Mbit/s

95th percentile per-packet one-way delay: 3.585 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 134.48 Mbit/s

95th percentile per-packet one-way delay: 5.171 ms

Loss rate: 0.02%

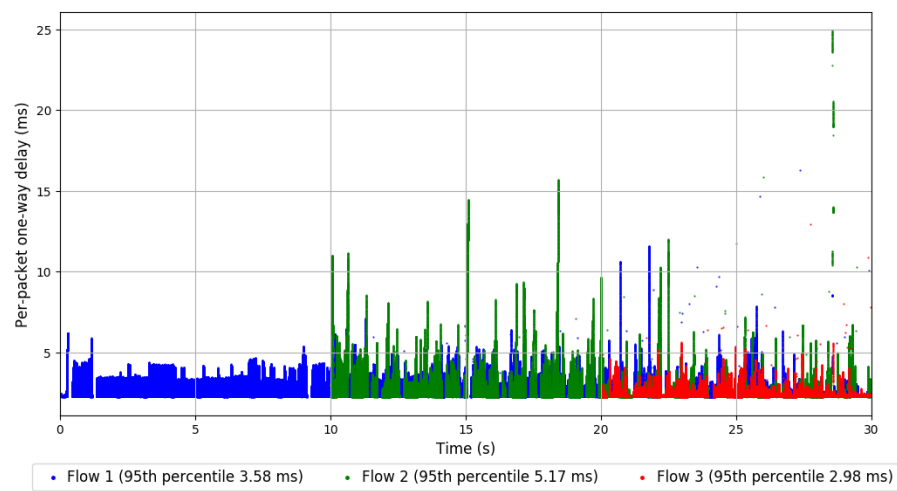
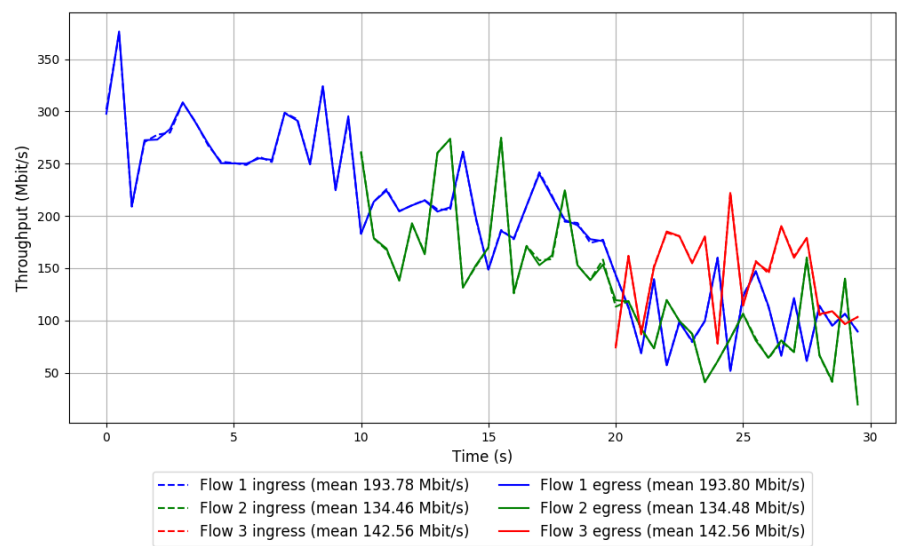
-- Flow 3:

Average throughput: 142.56 Mbit/s

95th percentile per-packet one-way delay: 2.977 ms

Loss rate: 0.00%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2017-09-18 10:38:01
End at: 2017-09-18 10:38:31
Local clock offset: -2.139 ms
Remote clock offset: 1.017 ms

Below is generated by plot.py at 2017-09-18 15:31:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 363.98 Mbit/s
95th percentile per-packet one-way delay: 4.356 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 225.62 Mbit/s
95th percentile per-packet one-way delay: 3.922 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 145.69 Mbit/s
95th percentile per-packet one-way delay: 5.405 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 129.01 Mbit/s
95th percentile per-packet one-way delay: 4.078 ms
Loss rate: 0.11%

Run 10: Report of Verus — Data Link

