

Pantheon Report

Generated at 2017-09-01 01:26:47 (UTC).

Data path: GCE Sydney Ethernet (*local*) → GCE Tokyo Ethernet (*remote*).

Repeated the test of 15 congestion control schemes 10 times.

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

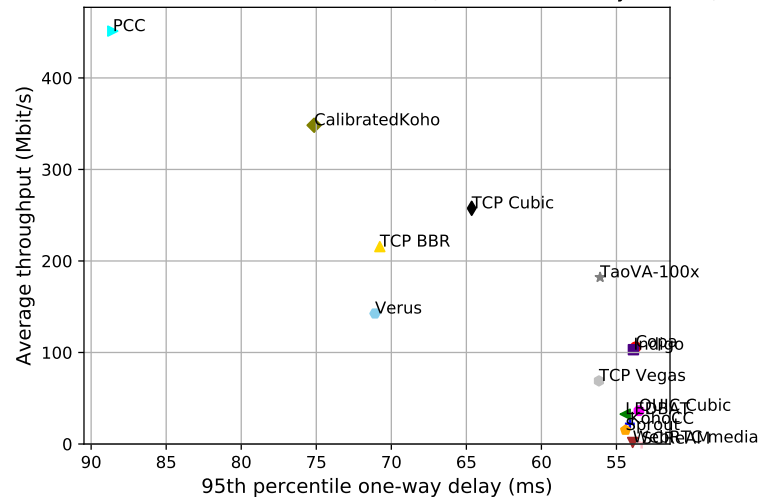
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

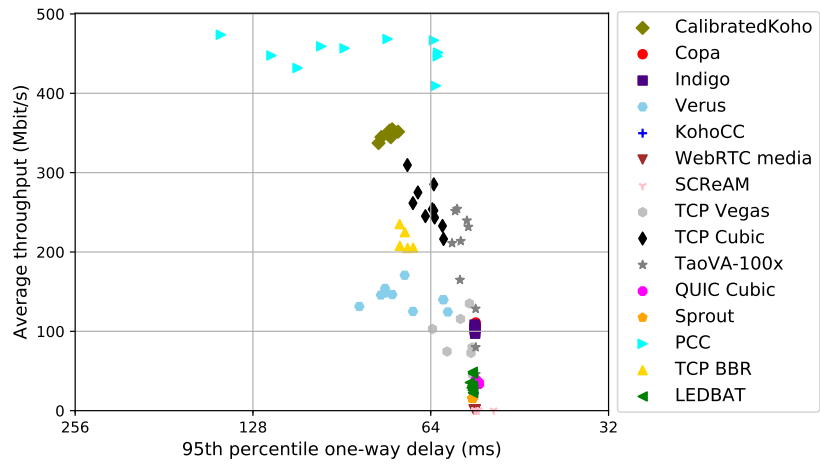
Git summary:

```
branch: master @ 5ea146acdebe79f5b9acfb2d9044554a7d2582ea
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/genericCC @ f7ca42f251bf49b432bb71de6d13fa903515c366
third_party/indigo @ 7ddb4adf480966042c0438984cb22a298bfa635f
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-quic @ 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 GCE Sydney Ethernet to GCE Tokyo Ethernet, 10 runs of 30s each per scheme
3 flows with 10s interval between flows (mean of all runs by scheme)



test from GCE Sydney Ethernet to GCE Tokyo Ethernet, 10 runs of 30s each per scheme
3 flows with 10s interval between flows



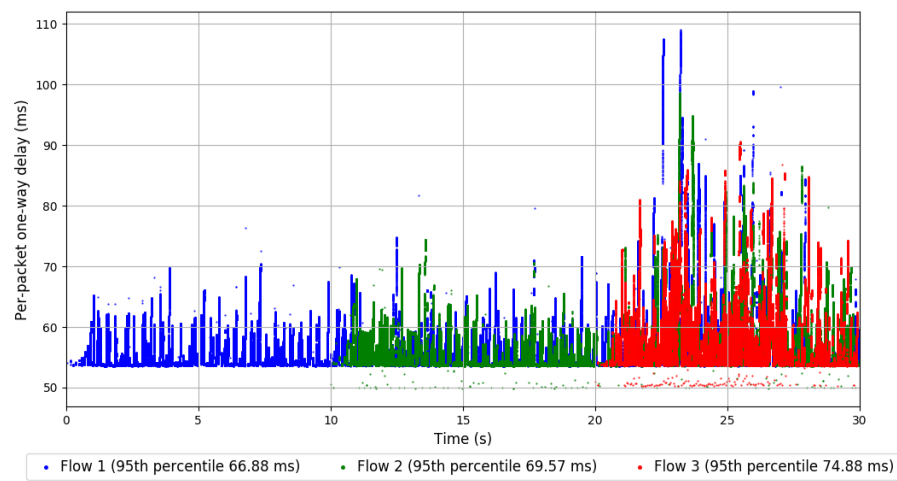
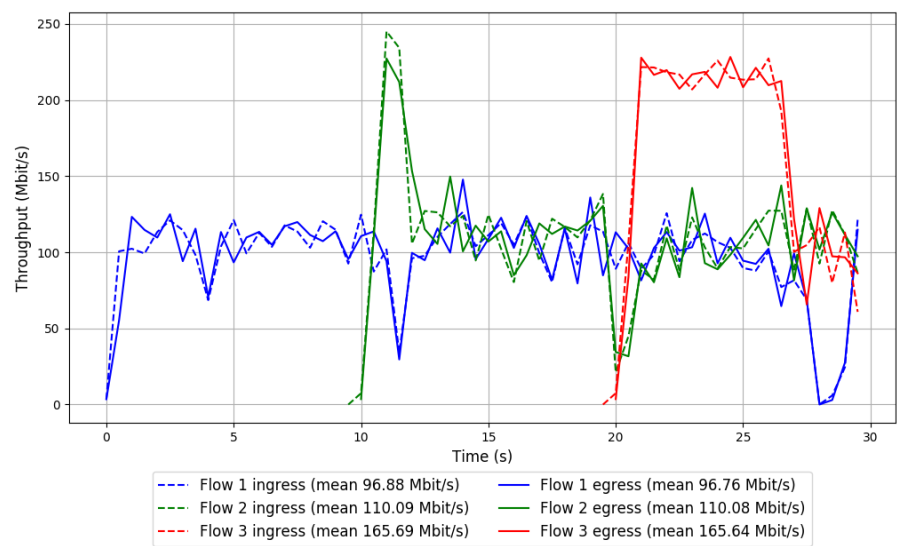
scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	5	103.98	111.19	113.70	68.23	70.99	74.97	0.04	0.04	0.14
CalibratedKoho	10	217.00	149.19	98.10	76.13	73.60	74.00	0.02	0.02	0.13
Copa	10	62.31	51.64	44.24	53.71	53.73	53.82	0.00	0.01	0.03
TCP Cubic	10	124.63	127.49	145.10	60.65	62.11	70.61	0.02	0.02	0.19
Indigo	10	48.74	62.43	41.49	53.82	53.95	53.82	0.00	0.00	0.00
KohoCC	10	11.10	11.10	10.81	54.10	54.13	54.06	0.00	0.00	0.02
LEDBAT	10	20.15	13.95	9.54	54.44	54.39	54.42	0.02	0.03	0.00
PCC	10	279.12	176.46	168.98	94.02	58.63	57.80	0.60	0.00	0.01
QUIC Cubic	8	0.06	40.64	28.84	51.46	51.82	52.57	0.00	0.00	0.00
SCReAM	10	0.21	0.21	0.22	51.89	52.59	51.15	0.00	0.00	0.00
Sprout	10	7.72	7.63	7.37	54.40	54.39	54.40	0.07	0.08	0.01
TaoVA-100x	10	153.55	62.35	66.91	55.70	54.72	55.29	0.00	0.00	0.01
TCP Vegas	10	19.15	41.58	66.78	54.68	55.17	56.95	0.01	0.00	0.00
Verus	10	88.02	57.90	49.21	74.05	67.75	61.02	0.16	0.01	0.02
WebRTC media	10	0.05	1.47	0.37	54.11	52.85	54.03	0.00	0.02	0.01

```
Run 1: Statistics of TCP BBR

Start at: 2017-08-31 21:00:58
End at: 2017-08-31 21:01:28

# Below is generated by plot.py at 2017-09-01 00:51:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 225.05 Mbit/s
95th percentile per-packet one-way delay: 70.797 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 96.76 Mbit/s
95th percentile per-packet one-way delay: 66.875 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 110.08 Mbit/s
95th percentile per-packet one-way delay: 69.568 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 165.64 Mbit/s
95th percentile per-packet one-way delay: 74.875 ms
Loss rate: 0.00%
```


Run 1: Report of TCP BBR — Data Link

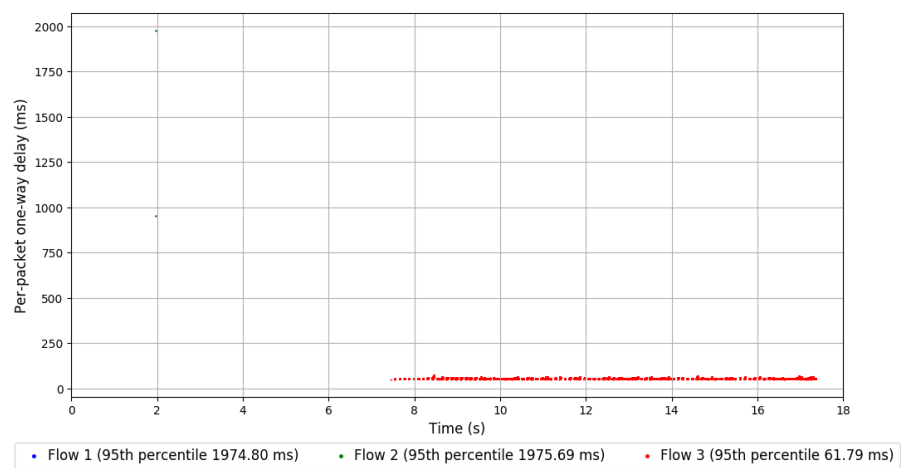
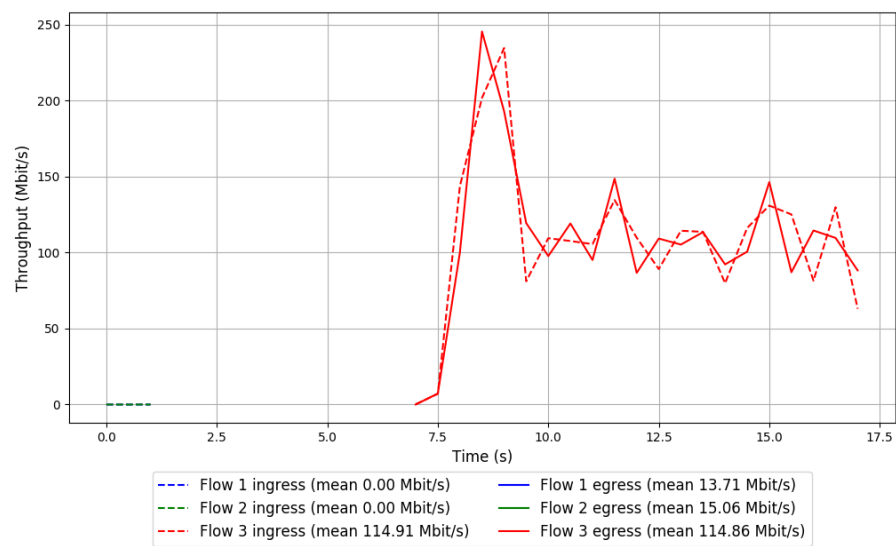


Run 2: Statistics of TCP BBR

Start at: 2017-08-31 21:13:01

End at: 2017-08-31 21:13:31

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2017-08-31 21:24:43

End at: 2017-08-31 21:25:13

Below is generated by plot.py at 2017-09-01 00:51:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 205.48 Mbit/s

95th percentile per-packet one-way delay: 68.556 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 103.74 Mbit/s

95th percentile per-packet one-way delay: 66.037 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 109.24 Mbit/s

95th percentile per-packet one-way delay: 68.825 ms

Loss rate: 0.00%

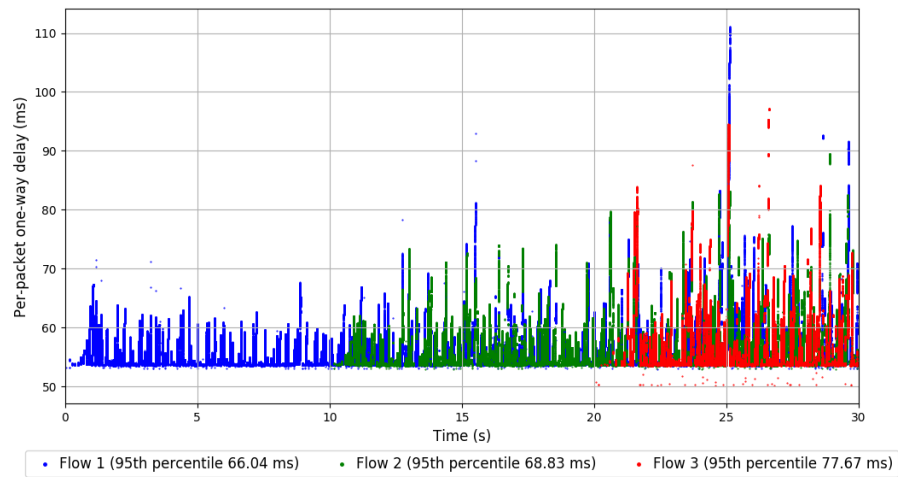
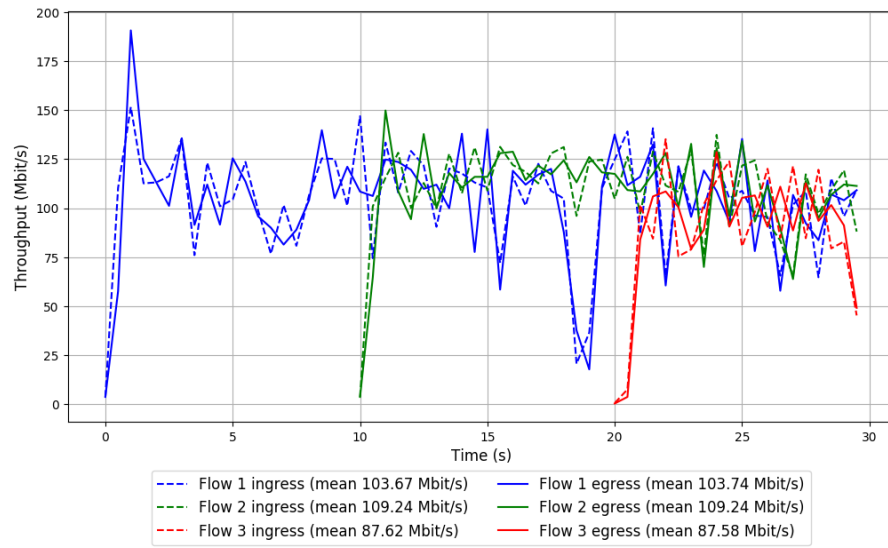
-- Flow 3:

Average throughput: 87.58 Mbit/s

95th percentile per-packet one-way delay: 77.674 ms

Loss rate: 0.02%

Run 3: Report of TCP BBR — Data Link

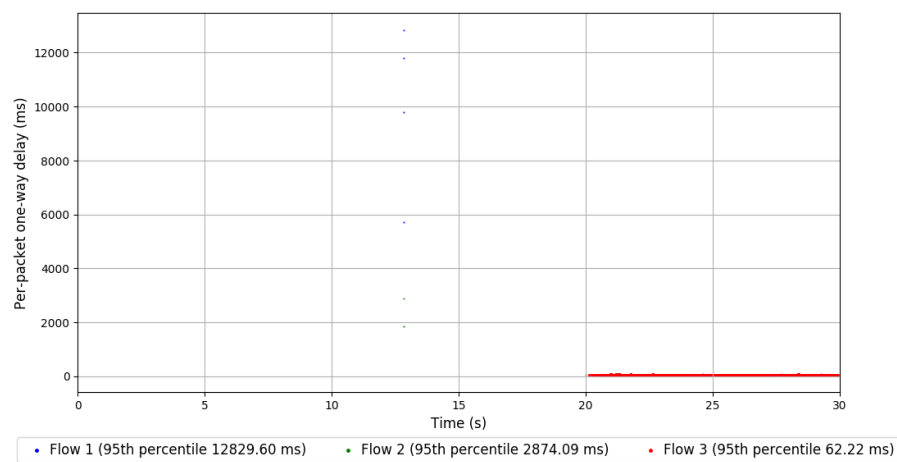
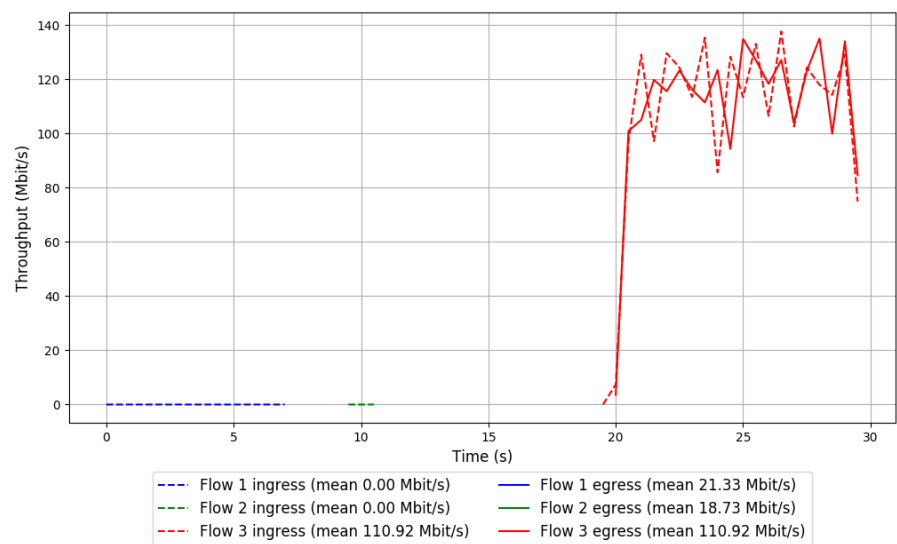


Run 4: Statistics of TCP BBR

Start at: 2017-08-31 21:36:54

End at: 2017-08-31 21:37:24

Run 4: Report of TCP BBR — Data Link

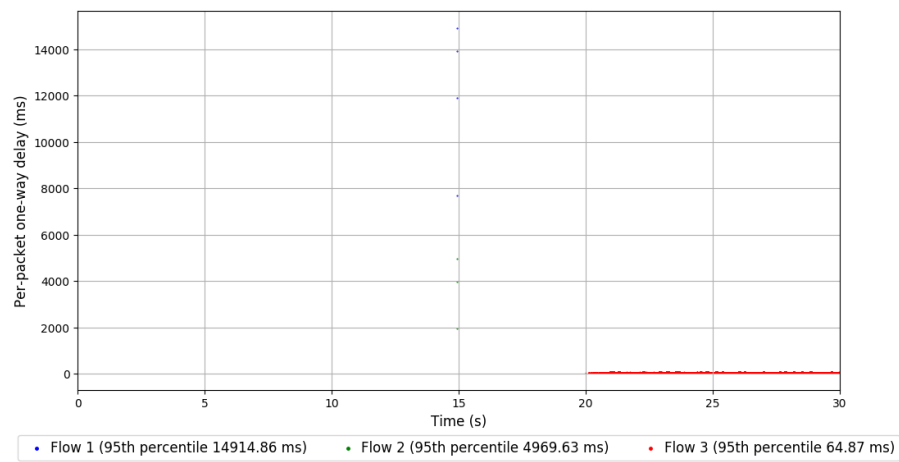
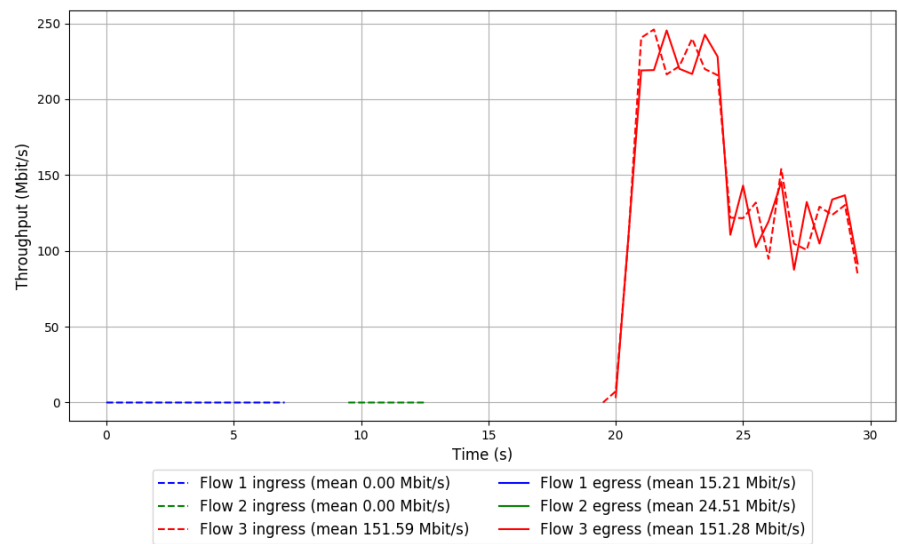


Run 5: Statistics of TCP BBR

Start at: 2017-08-31 21:48:53

End at: 2017-08-31 21:49:23

Run 5: Report of TCP BBR — Data Link

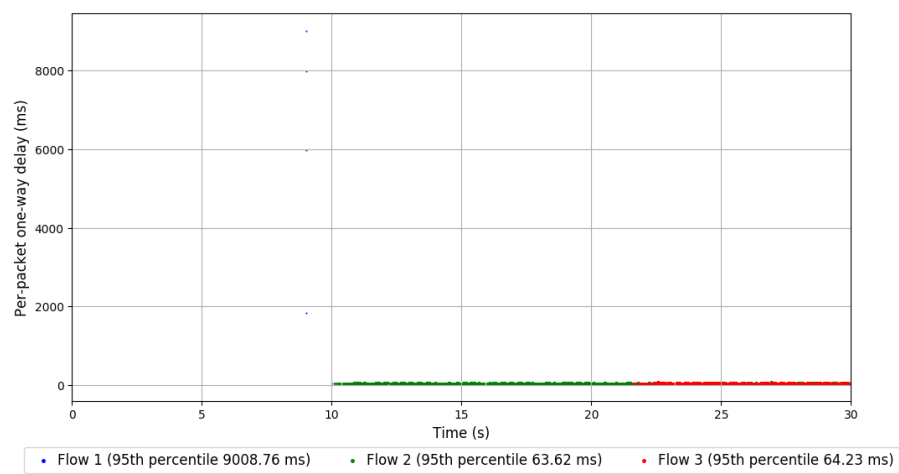
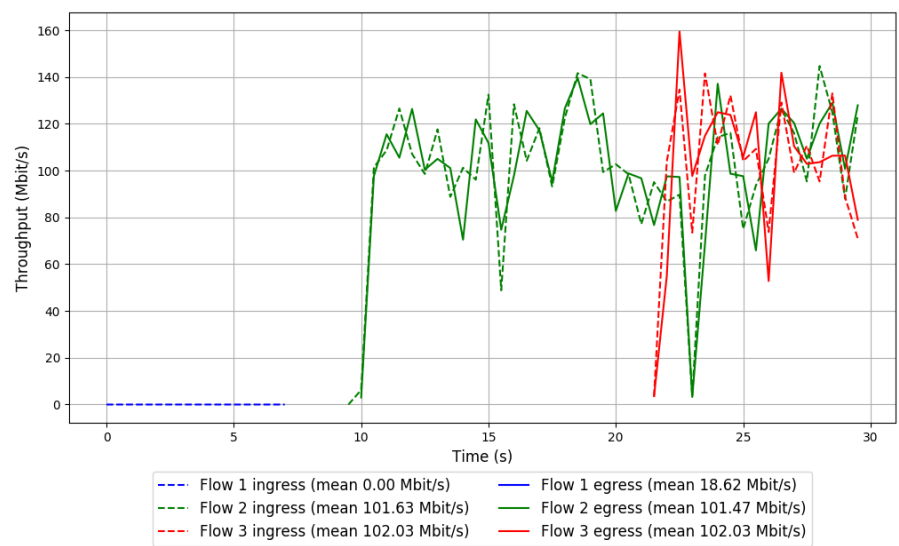


Run 6: Statistics of TCP BBR

Start at: 2017-08-31 22:00:48

End at: 2017-08-31 22:01:18

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2017-08-31 22:12:31

End at: 2017-08-31 22:13:01

Below is generated by plot.py at 2017-09-01 00:52:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 235.20 Mbit/s

95th percentile per-packet one-way delay: 72.250 ms

Loss rate: 0.17%

-- Flow 1:

Average throughput: 110.63 Mbit/s

95th percentile per-packet one-way delay: 69.779 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 126.94 Mbit/s

95th percentile per-packet one-way delay: 73.410 ms

Loss rate: 0.14%

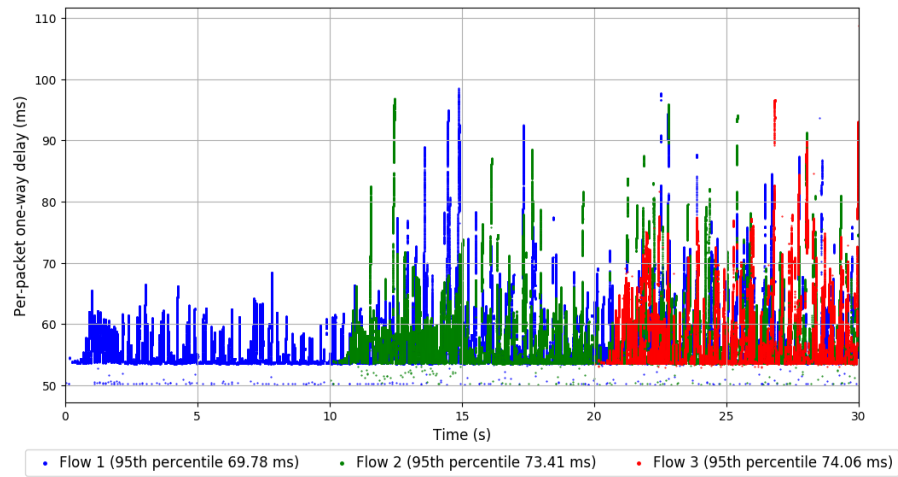
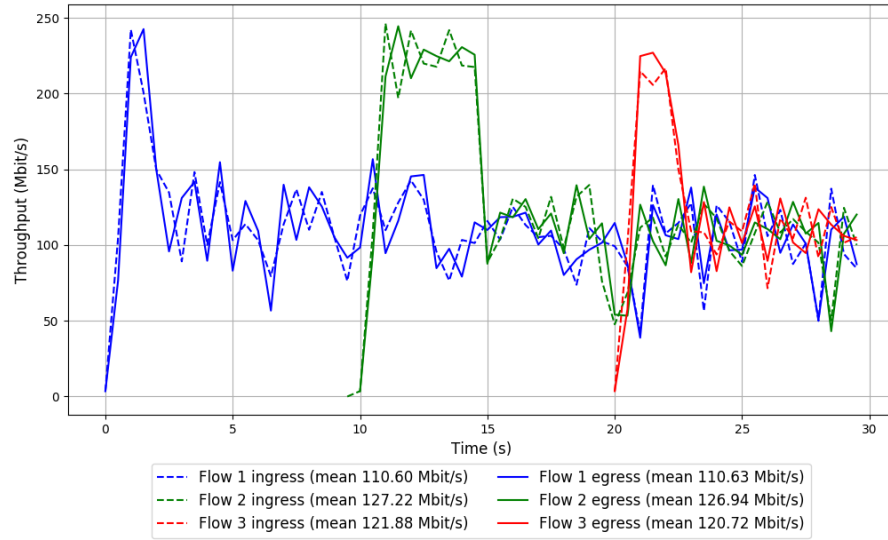
-- Flow 3:

Average throughput: 120.72 Mbit/s

95th percentile per-packet one-way delay: 74.065 ms

Loss rate: 0.68%

Run 7: Report of TCP BBR — Data Link

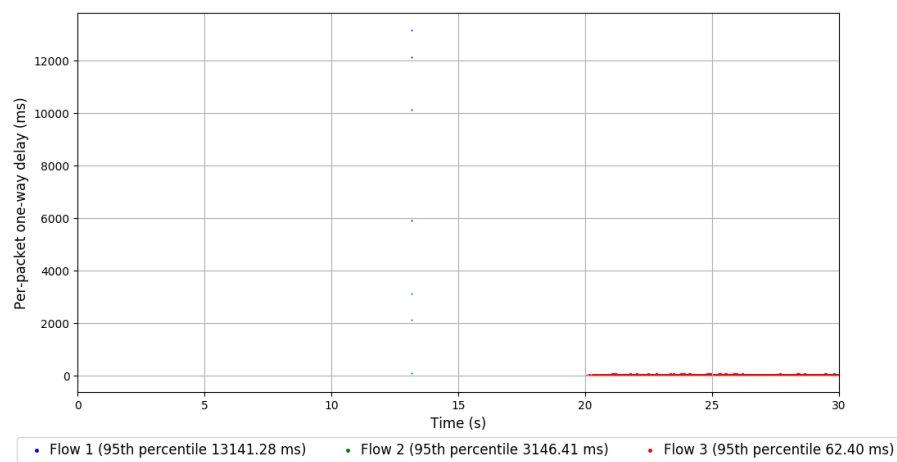
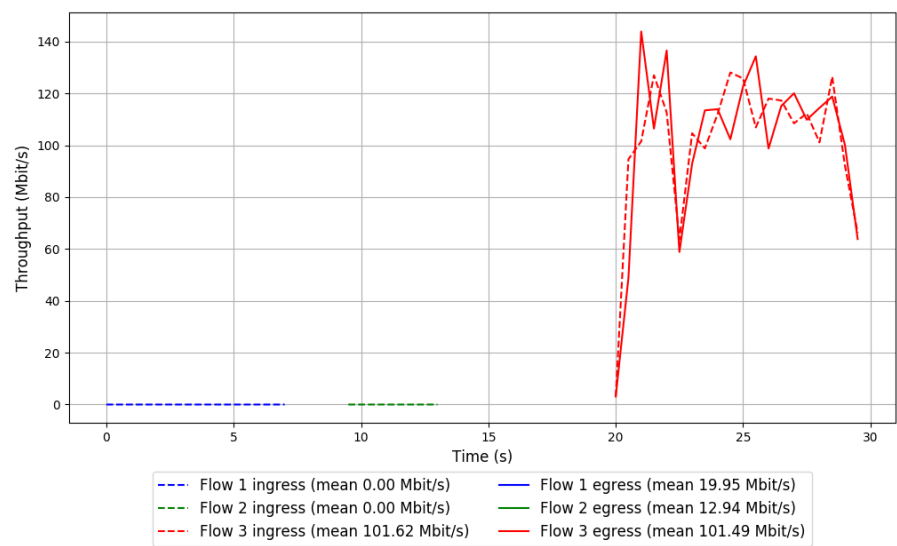


Run 8: Statistics of TCP BBR

Start at: 2017-08-31 22:24:50

End at: 2017-08-31 22:25:20

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2017-08-31 22:36:38

End at: 2017-08-31 22:37:08

Below is generated by plot.py at 2017-09-01 00:53:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 205.01 Mbit/s

95th percentile per-packet one-way delay: 70.042 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 103.30 Mbit/s

95th percentile per-packet one-way delay: 67.154 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 102.85 Mbit/s

95th percentile per-packet one-way delay: 72.232 ms

Loss rate: 0.00%

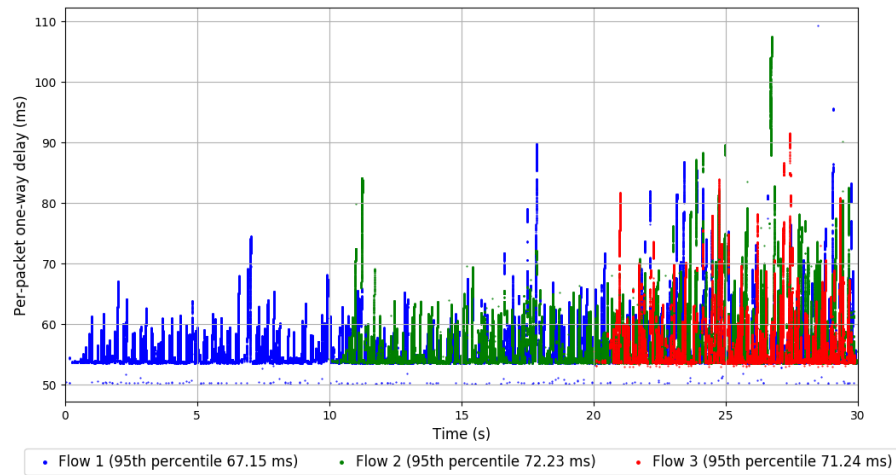
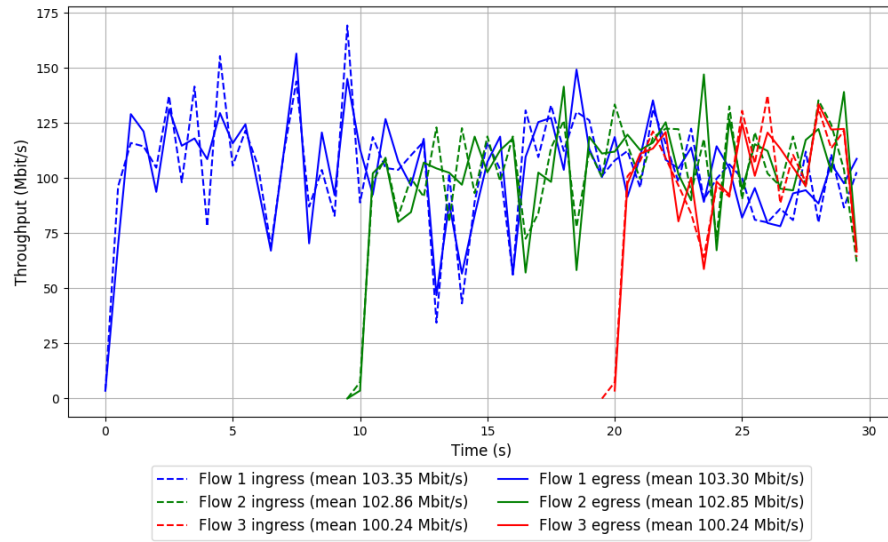
-- Flow 3:

Average throughput: 100.24 Mbit/s

95th percentile per-packet one-way delay: 71.236 ms

Loss rate: 0.00%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2017-08-31 22:48:25

End at: 2017-08-31 22:48:55

Below is generated by plot.py at 2017-09-01 00:53:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 207.81 Mbit/s

95th percentile per-packet one-way delay: 72.184 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 105.48 Mbit/s

95th percentile per-packet one-way delay: 71.330 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 106.85 Mbit/s

95th percentile per-packet one-way delay: 70.901 ms

Loss rate: 0.02%

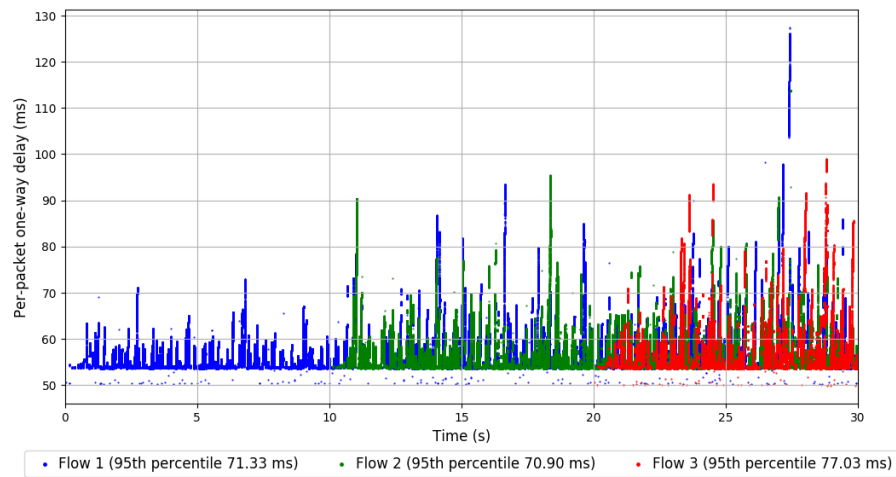
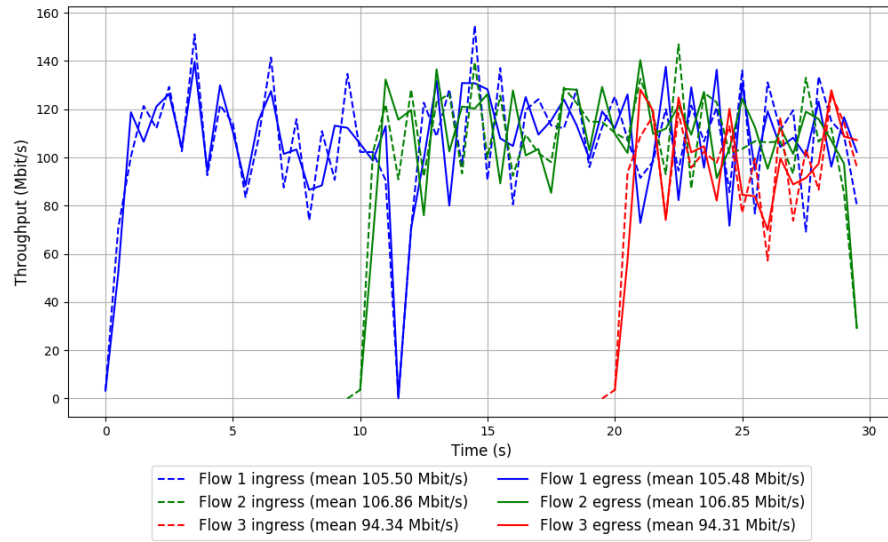
-- Flow 3:

Average throughput: 94.31 Mbit/s

95th percentile per-packet one-way delay: 77.025 ms

Loss rate: 0.01%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of CalibratedKoho

Start at: 2017-08-31 21:05:57

End at: 2017-08-31 21:06:27

Below is generated by plot.py at 2017-09-01 00:54:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 354.66 Mbit/s

95th percentile per-packet one-way delay: 74.400 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 227.97 Mbit/s

95th percentile per-packet one-way delay: 73.954 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 145.04 Mbit/s

95th percentile per-packet one-way delay: 74.836 ms

Loss rate: 0.00%

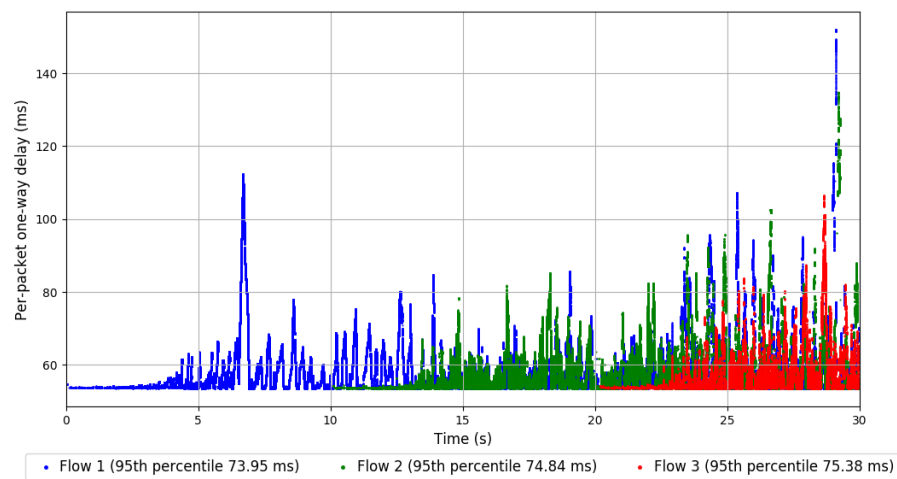
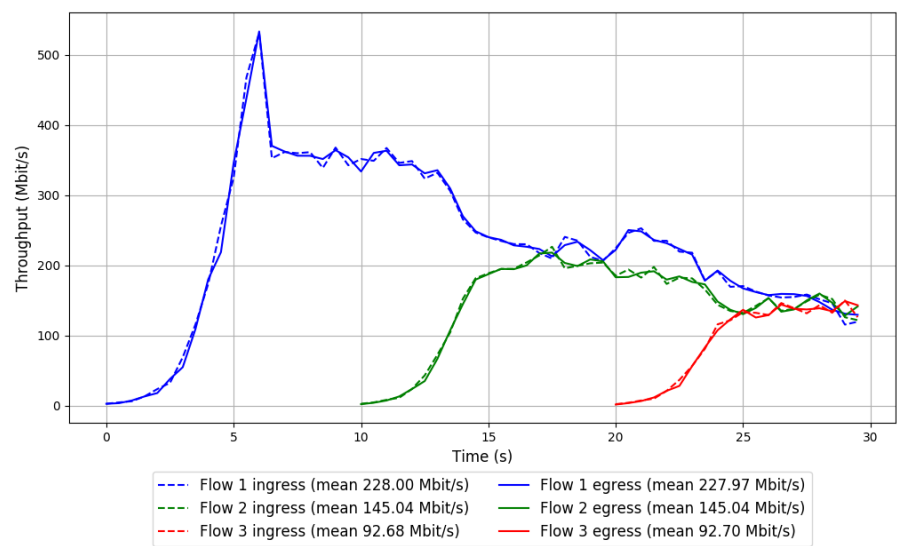
-- Flow 3:

Average throughput: 92.70 Mbit/s

95th percentile per-packet one-way delay: 75.382 ms

Loss rate: 0.05%

Run 1: Report of CalibratedKoho — Data Link



Run 2: Statistics of CalibratedKoho

Start at: 2017-08-31 21:17:51

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

Below is generated by plot.py at 2017-09-01 00:54:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 351.77 Mbit/s

95th percentile per-packet one-way delay: 74.319 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 224.01 Mbit/s

95th percentile per-packet one-way delay: 73.474 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 146.66 Mbit/s

95th percentile per-packet one-way delay: 75.976 ms

Loss rate: 0.00%

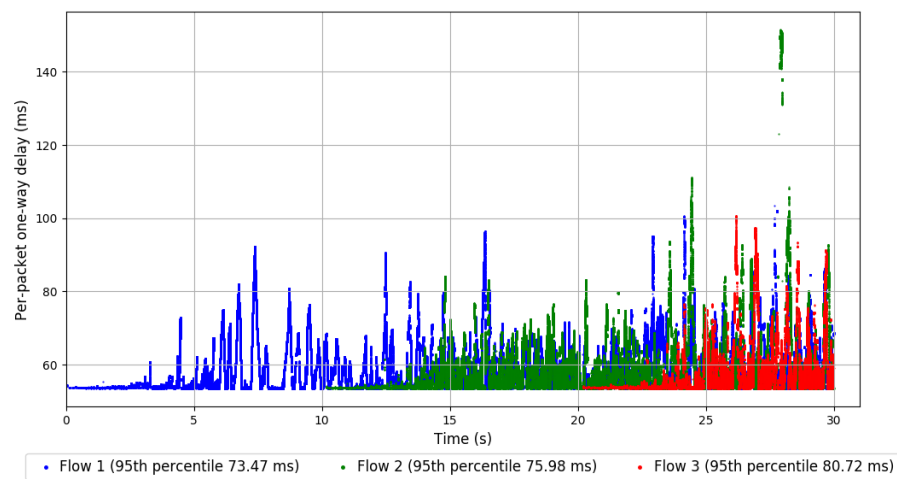
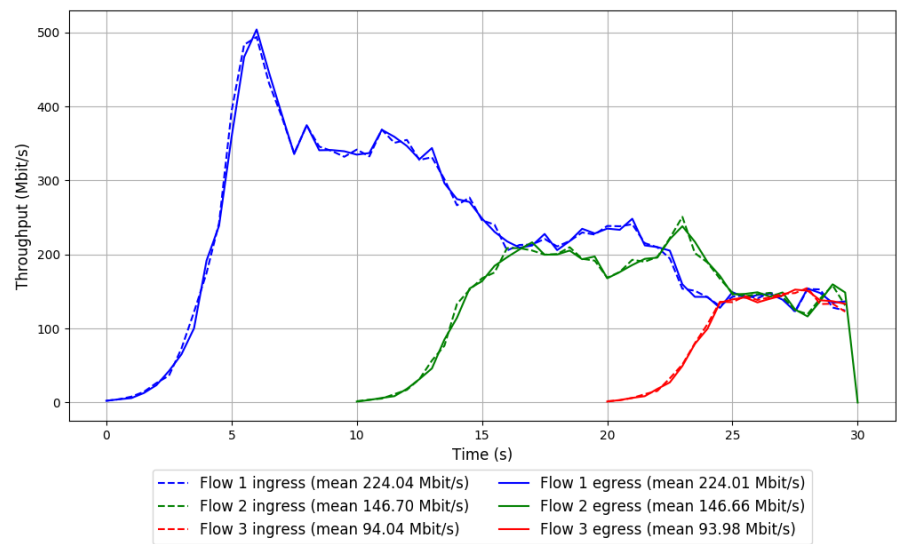
-- Flow 3:

Average throughput: 93.98 Mbit/s

95th percentile per-packet one-way delay: 80.724 ms

Loss rate: 0.09%

Run 2: Report of CalibratedKoho — Data Link



Run 3: Statistics of CalibratedKoho

Start at: 2017-08-31 21:29:46

End at: 2017-08-31 21:30:16

Below is generated by plot.py at 2017-09-01 00:55:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 349.28 Mbit/s

95th percentile per-packet one-way delay: 75.144 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 215.64 Mbit/s

95th percentile per-packet one-way delay: 75.807 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 149.98 Mbit/s

95th percentile per-packet one-way delay: 73.953 ms

Loss rate: 0.01%

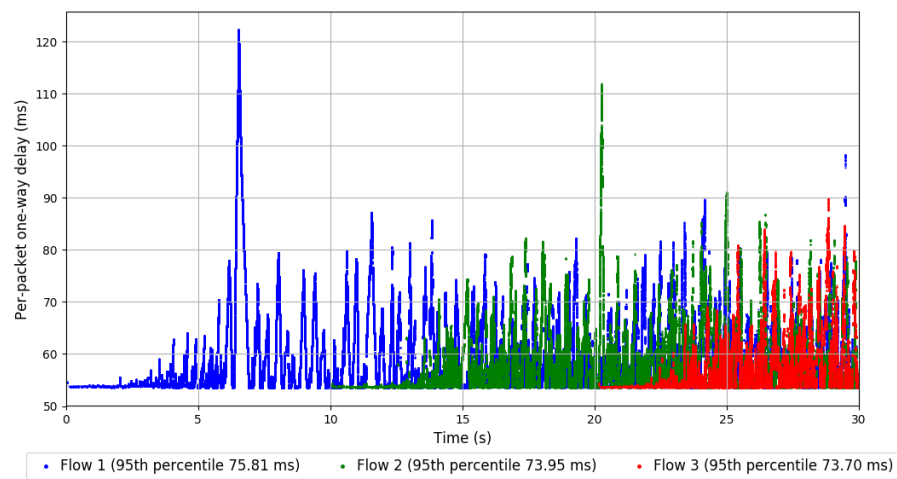
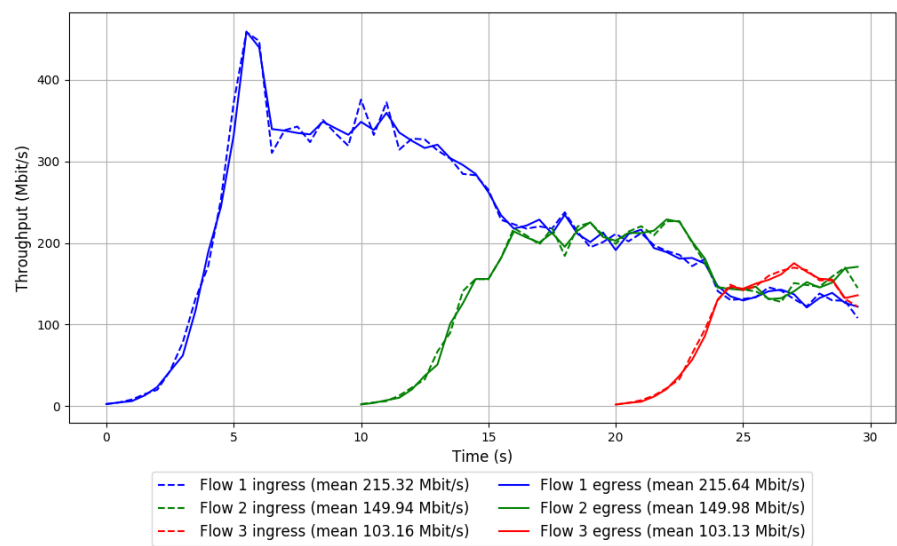
-- Flow 3:

Average throughput: 103.13 Mbit/s

95th percentile per-packet one-way delay: 73.700 ms

Loss rate: 0.01%

Run 3: Report of CalibratedKoho — Data Link



Run 4: Statistics of CalibratedKoho

Start at: 2017-08-31 21:41:45

End at: 2017-08-31 21:42:15

Below is generated by plot.py at 2017-09-01 00:55:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 352.83 Mbit/s

95th percentile per-packet one-way delay: 75.156 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 223.57 Mbit/s

95th percentile per-packet one-way delay: 75.655 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 150.02 Mbit/s

95th percentile per-packet one-way delay: 75.715 ms

Loss rate: 0.01%

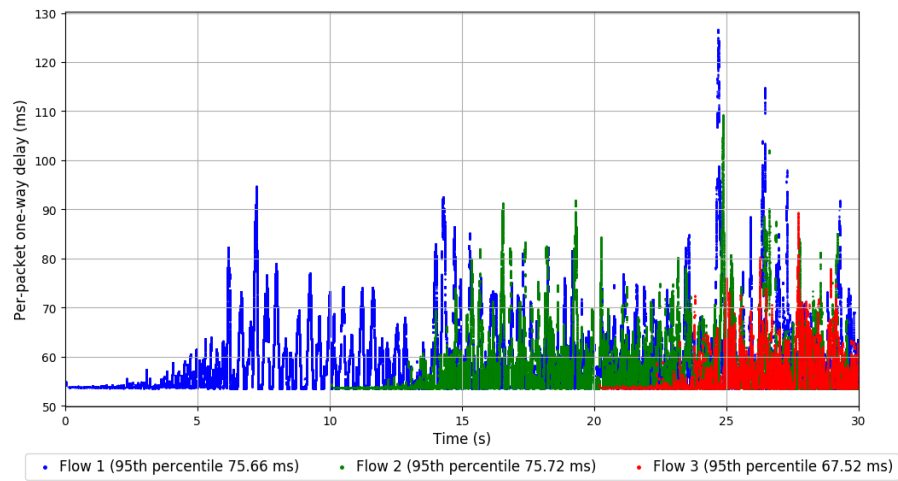
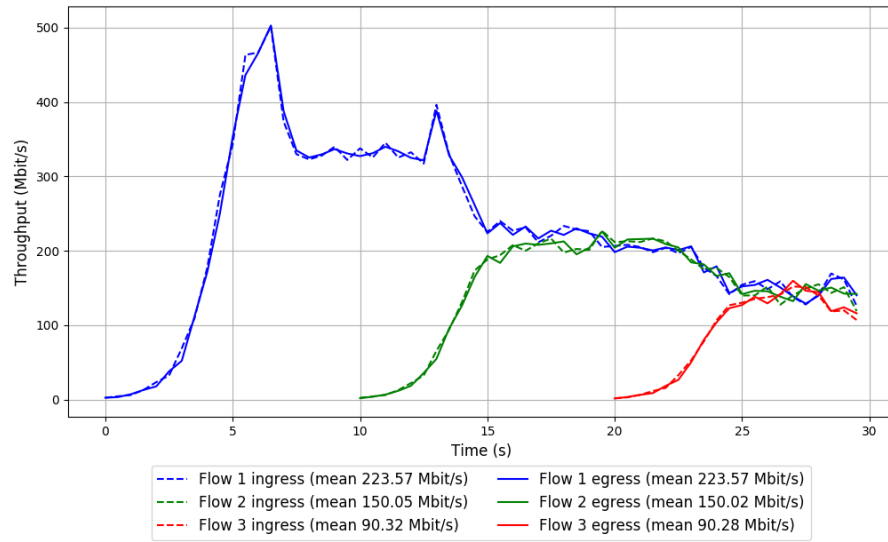
-- Flow 3:

Average throughput: 90.28 Mbit/s

95th percentile per-packet one-way delay: 67.521 ms

Loss rate: 0.06%

Run 4: Report of CalibratedKoho — Data Link



Run 5: Statistics of CalibratedKoho

Start at: 2017-08-31 21:53:40

End at: 2017-08-31 21:54:10

Below is generated by plot.py at 2017-09-01 00:56:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 344.86 Mbit/s

95th percentile per-packet one-way delay: 77.563 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 214.87 Mbit/s

95th percentile per-packet one-way delay: 80.050 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 148.06 Mbit/s

95th percentile per-packet one-way delay: 72.587 ms

Loss rate: 0.02%

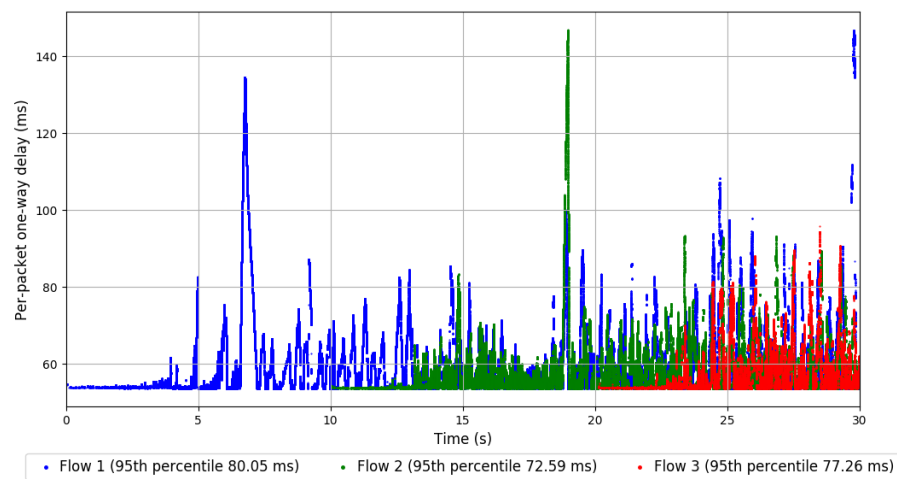
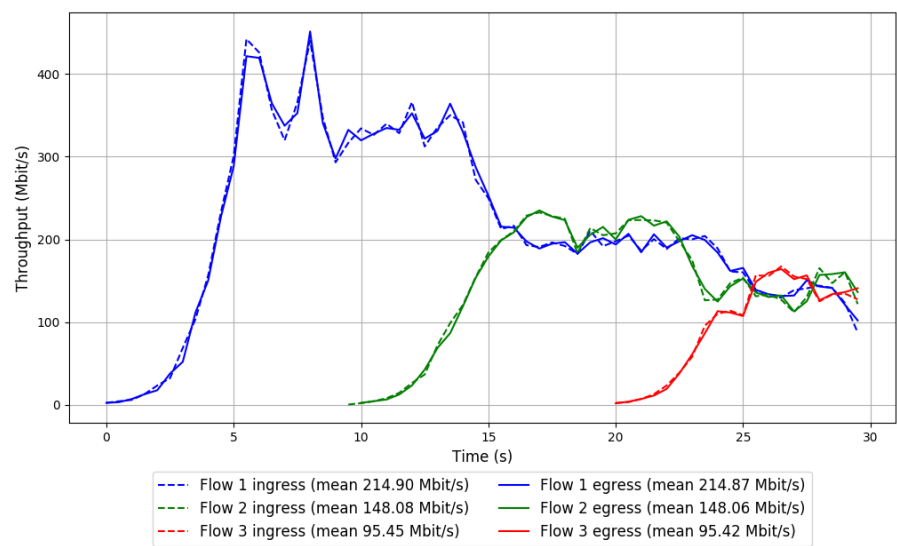
-- Flow 3:

Average throughput: 95.42 Mbit/s

95th percentile per-packet one-way delay: 77.258 ms

Loss rate: 0.09%

Run 5: Report of CalibratedKoho — Data Link



Run 6: Statistics of CalibratedKoho

Start at: 2017-08-31 22:05:35

End at: 2017-08-31 22:06:05

Below is generated by plot.py at 2017-09-01 00:57:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 349.57 Mbit/s

95th percentile per-packet one-way delay: 74.038 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 217.63 Mbit/s

95th percentile per-packet one-way delay: 75.013 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 148.91 Mbit/s

95th percentile per-packet one-way delay: 72.772 ms

Loss rate: 0.01%

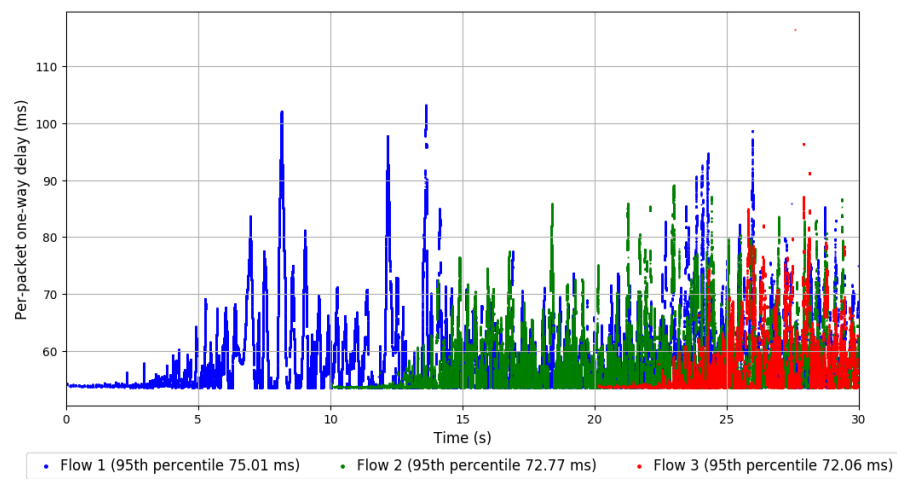
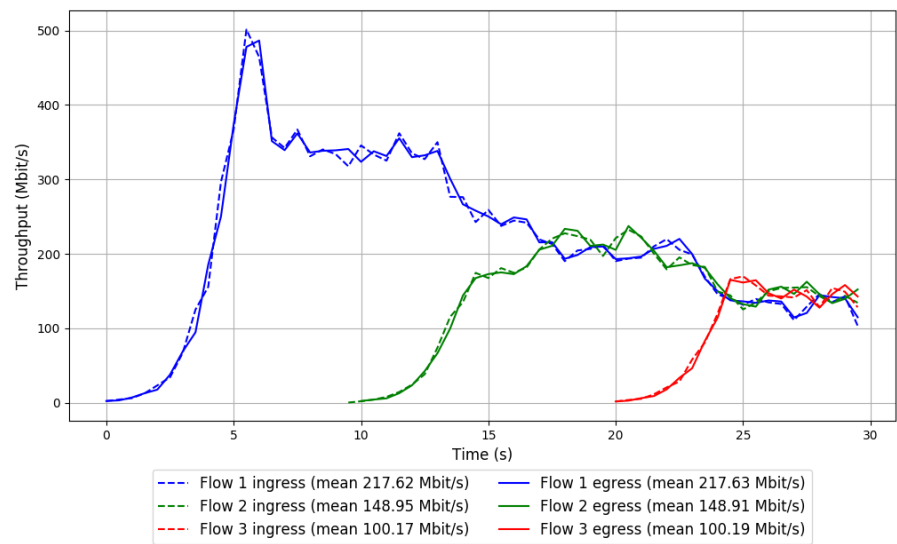
-- Flow 3:

Average throughput: 100.19 Mbit/s

95th percentile per-packet one-way delay: 72.065 ms

Loss rate: 0.03%

Run 6: Report of CalibratedKoho — Data Link



Run 7: Statistics of CalibratedKoho

Start at: 2017-08-31 22:17:30

End at: 2017-08-31 22:18:00

Below is generated by plot.py at 2017-09-01 00:57:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 351.55 Mbit/s

95th percentile per-packet one-way delay: 72.706 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 222.43 Mbit/s

95th percentile per-packet one-way delay: 73.370 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 142.90 Mbit/s

95th percentile per-packet one-way delay: 71.577 ms

Loss rate: 0.00%

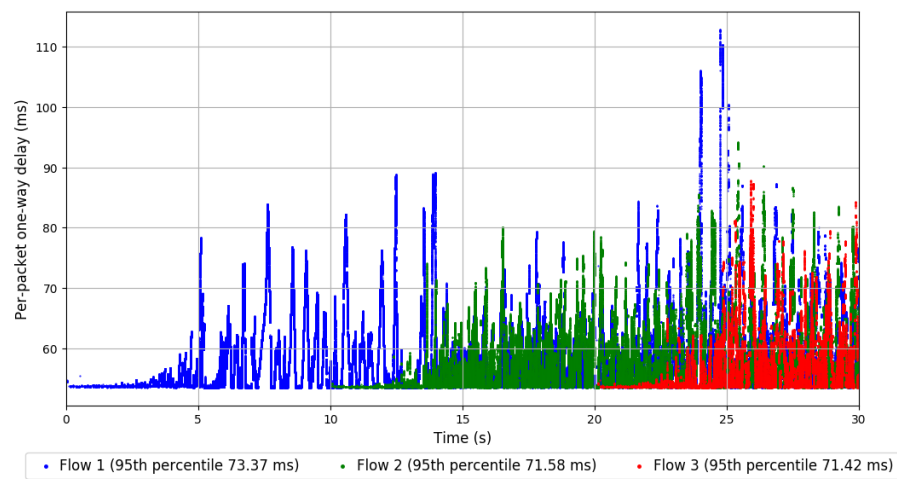
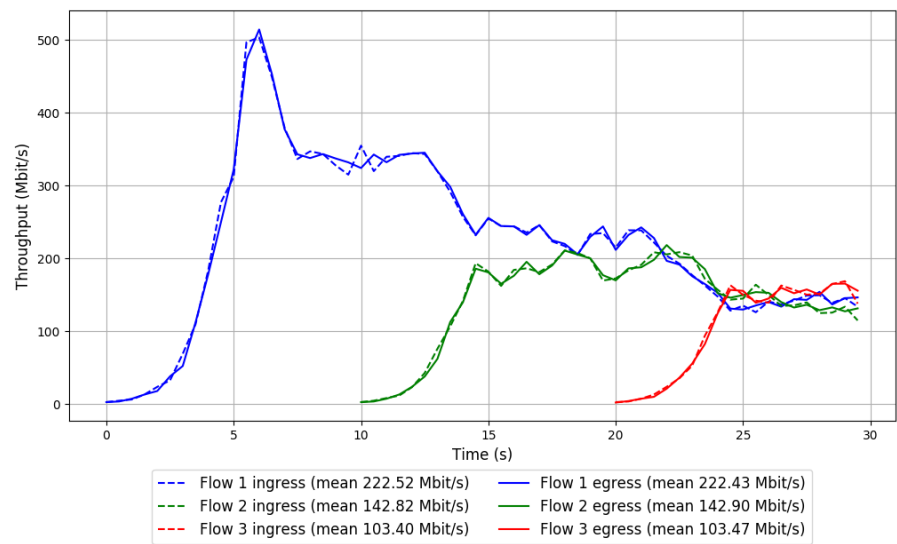
-- Flow 3:

Average throughput: 103.47 Mbit/s

95th percentile per-packet one-way delay: 71.416 ms

Loss rate: 0.00%

Run 7: Report of CalibratedKoho — Data Link



Run 8: Statistics of CalibratedKoho

Start at: 2017-08-31 22:29:37

End at: 2017-08-31 22:30:07

Below is generated by plot.py at 2017-09-01 00:58:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 337.23 Mbit/s

95th percentile per-packet one-way delay: 78.443 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 194.79 Mbit/s

95th percentile per-packet one-way delay: 80.547 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 161.95 Mbit/s

95th percentile per-packet one-way delay: 75.524 ms

Loss rate: 0.02%

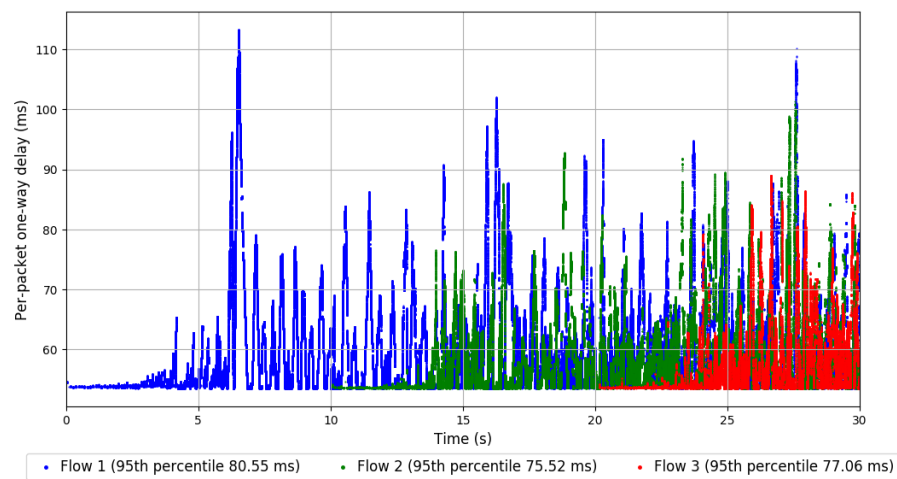
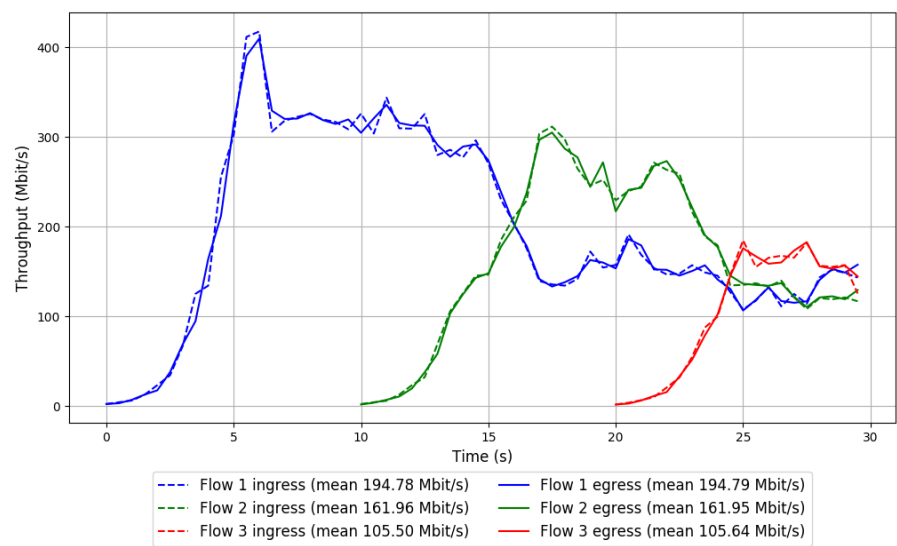
-- Flow 3:

Average throughput: 105.64 Mbit/s

95th percentile per-packet one-way delay: 77.062 ms

Loss rate: 0.03%

Run 8: Report of CalibratedKoho — Data Link



Run 9: Statistics of CalibratedKoho

Start at: 2017-08-31 22:41:36

End at: 2017-08-31 22:42:06

Below is generated by plot.py at 2017-09-01 00:58:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 346.56 Mbit/s

95th percentile per-packet one-way delay: 74.873 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 223.80 Mbit/s

95th percentile per-packet one-way delay: 77.080 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 137.22 Mbit/s

95th percentile per-packet one-way delay: 71.844 ms

Loss rate: 0.09%

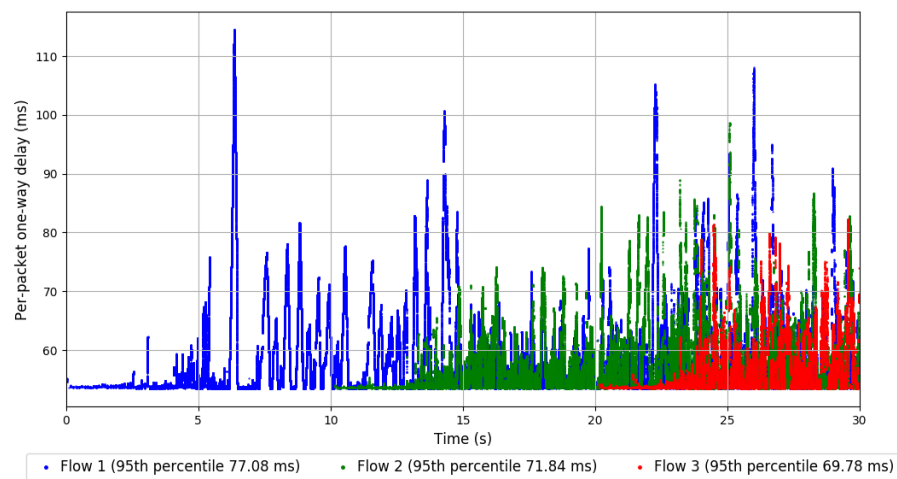
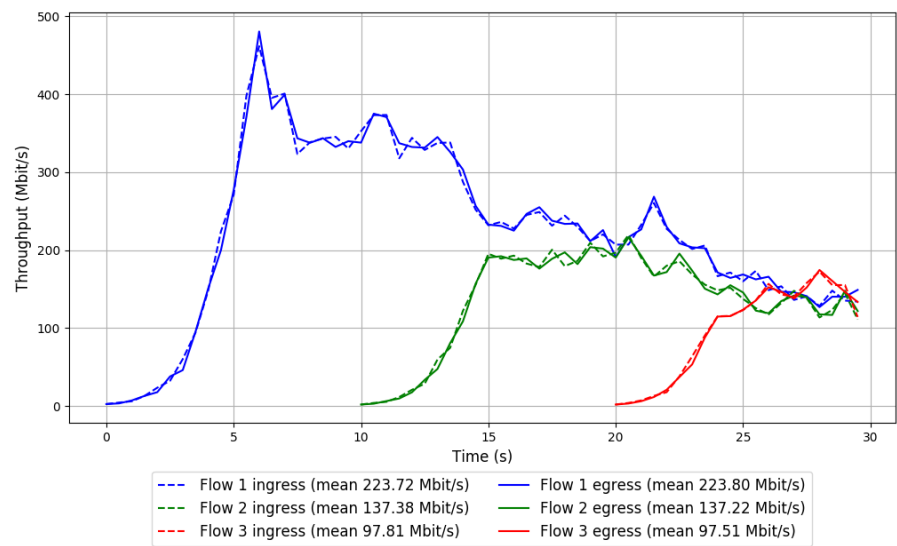
-- Flow 3:

Average throughput: 97.51 Mbit/s

95th percentile per-packet one-way delay: 69.783 ms

Loss rate: 0.29%

Run 9: Report of CalibratedKoho — Data Link



Run 10: Statistics of CalibratedKoho

Start at: 2017-08-31 22:53:30

End at: 2017-08-31 22:54:00

Below is generated by plot.py at 2017-09-01 00:59:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 344.60 Mbit/s

95th percentile per-packet one-way delay: 74.786 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 205.25 Mbit/s

95th percentile per-packet one-way delay: 76.315 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 161.21 Mbit/s

95th percentile per-packet one-way delay: 71.231 ms

Loss rate: 0.08%

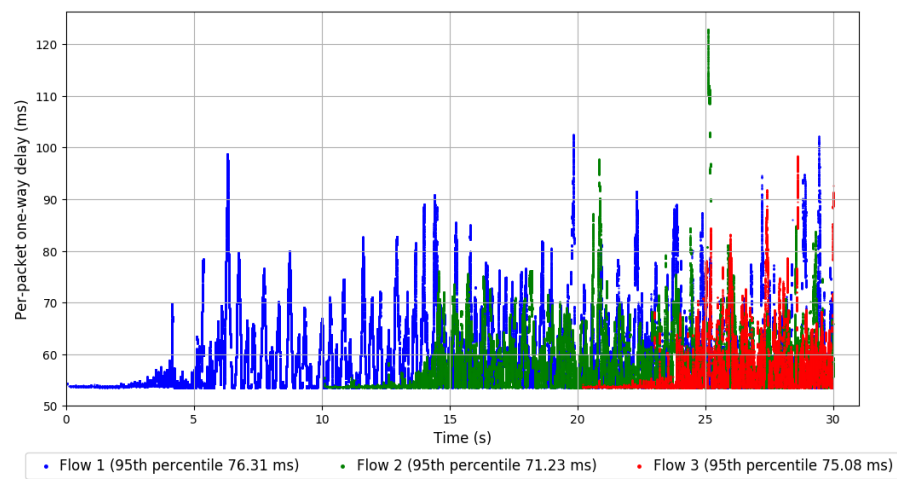
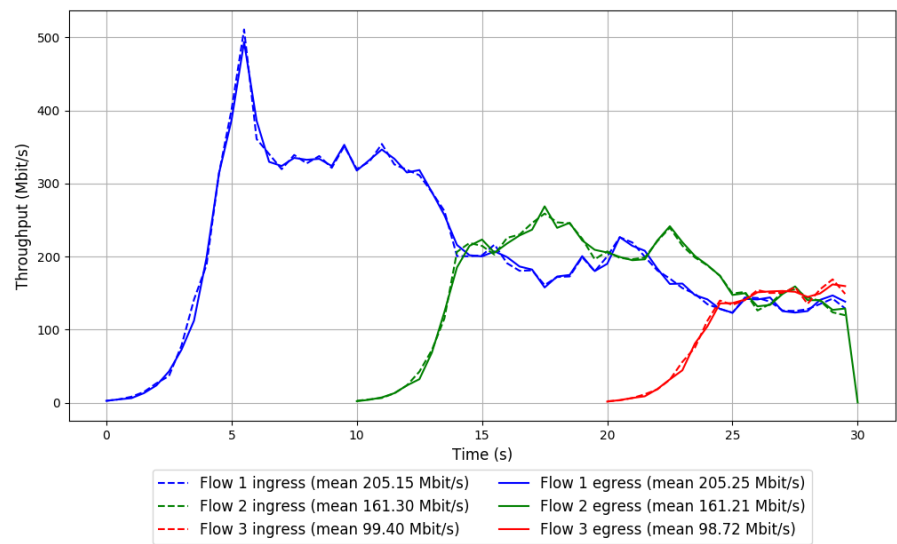
-- Flow 3:

Average throughput: 98.72 Mbit/s

95th percentile per-packet one-way delay: 75.076 ms

Loss rate: 0.69%

Run 10: Report of CalibratedKoho — Data Link



Run 1: Statistics of Copa

Start at: 2017-08-31 20:59:27

End at: 2017-08-31 20:59:57

Below is generated by plot.py at 2017-09-01 00:59:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 107.31 Mbit/s

95th percentile per-packet one-way delay: 53.690 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 75.07 Mbit/s

95th percentile per-packet one-way delay: 53.691 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 70.87 Mbit/s

95th percentile per-packet one-way delay: 53.692 ms

Loss rate: 0.00%

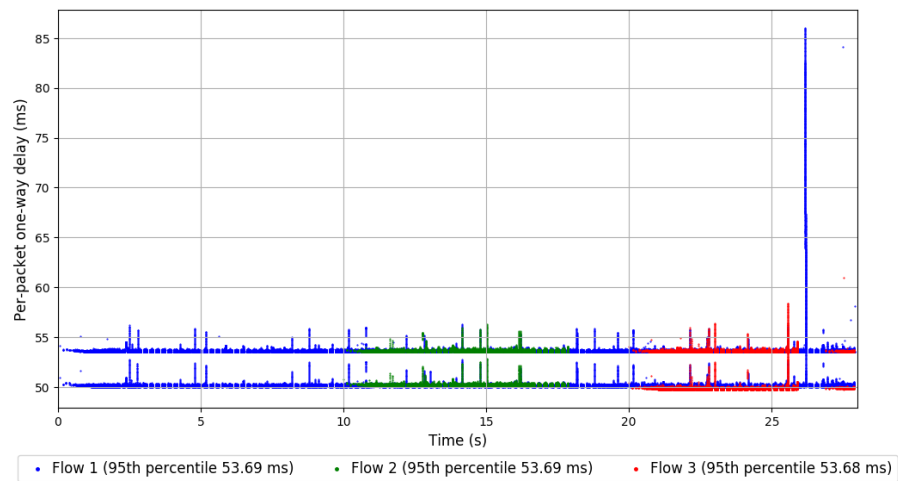
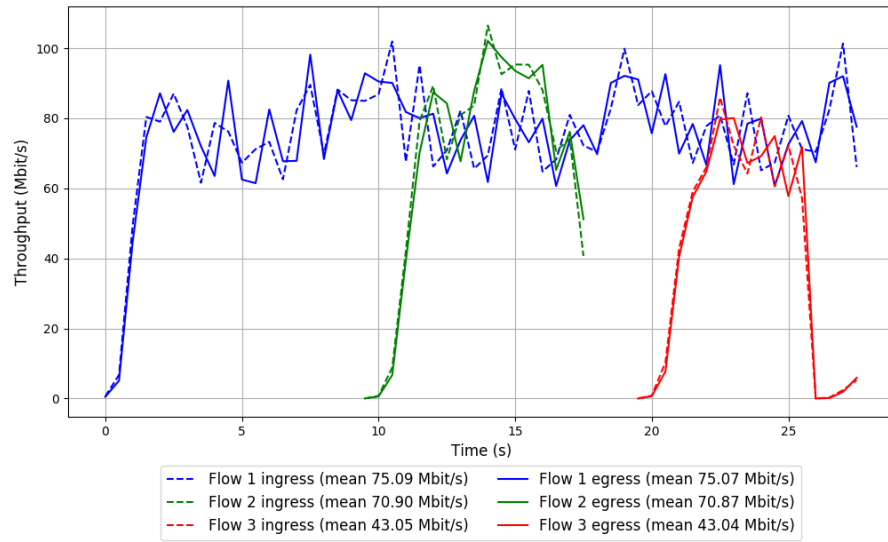
-- Flow 3:

Average throughput: 43.04 Mbit/s

95th percentile per-packet one-way delay: 53.681 ms

Loss rate: 0.00%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2017-08-31 21:11:30

End at: 2017-08-31 21:12:00

Below is generated by plot.py at 2017-09-01 00:59:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 106.90 Mbit/s

95th percentile per-packet one-way delay: 53.730 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 57.11 Mbit/s

95th percentile per-packet one-way delay: 53.711 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 55.30 Mbit/s

95th percentile per-packet one-way delay: 53.755 ms

Loss rate: 0.02%

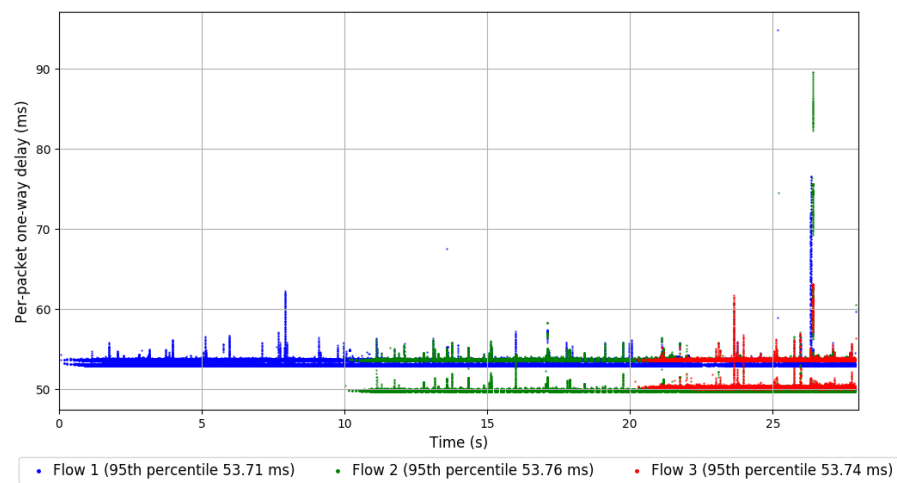
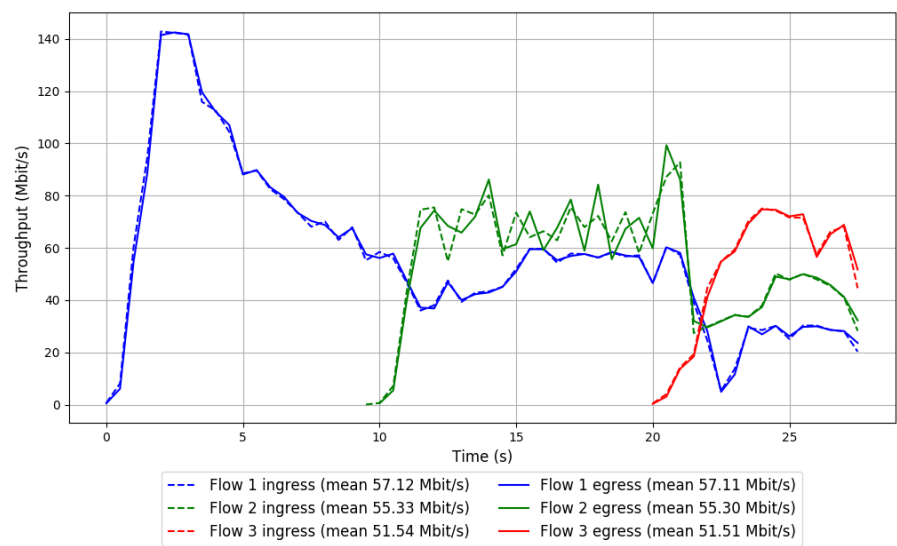
-- Flow 3:

Average throughput: 51.51 Mbit/s

95th percentile per-packet one-way delay: 53.740 ms

Loss rate: 0.02%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2017-08-31 21:23:12

End at: 2017-08-31 21:23:42

Below is generated by plot.py at 2017-09-01 01:00:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 102.42 Mbit/s

95th percentile per-packet one-way delay: 53.715 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 57.87 Mbit/s

95th percentile per-packet one-way delay: 53.703 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 48.30 Mbit/s

95th percentile per-packet one-way delay: 53.709 ms

Loss rate: 0.00%

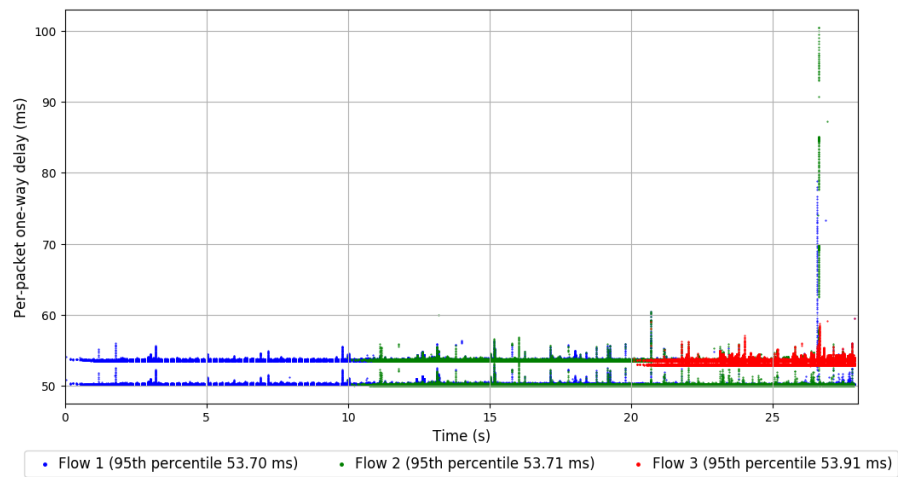
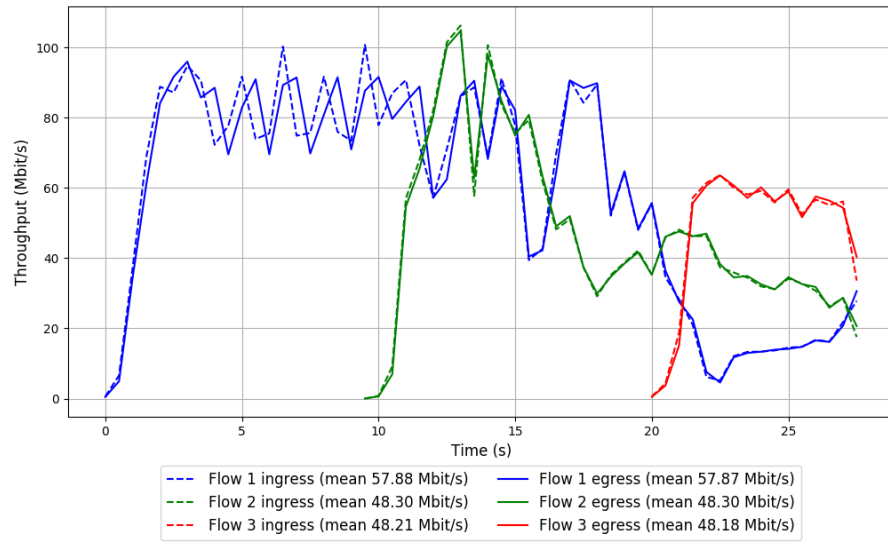
-- Flow 3:

Average throughput: 48.18 Mbit/s

95th percentile per-packet one-way delay: 53.908 ms

Loss rate: 0.02%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2017-08-31 21:35:24

End at: 2017-08-31 21:35:54

Below is generated by plot.py at 2017-09-01 01:00:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 101.59 Mbit/s

95th percentile per-packet one-way delay: 53.751 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 52.10 Mbit/s

95th percentile per-packet one-way delay: 53.721 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 47.74 Mbit/s

95th percentile per-packet one-way delay: 53.780 ms

Loss rate: 0.00%

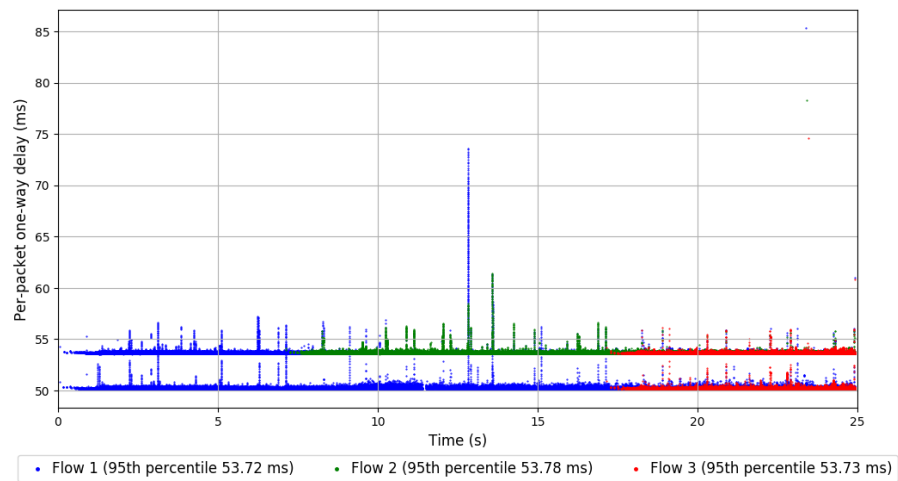
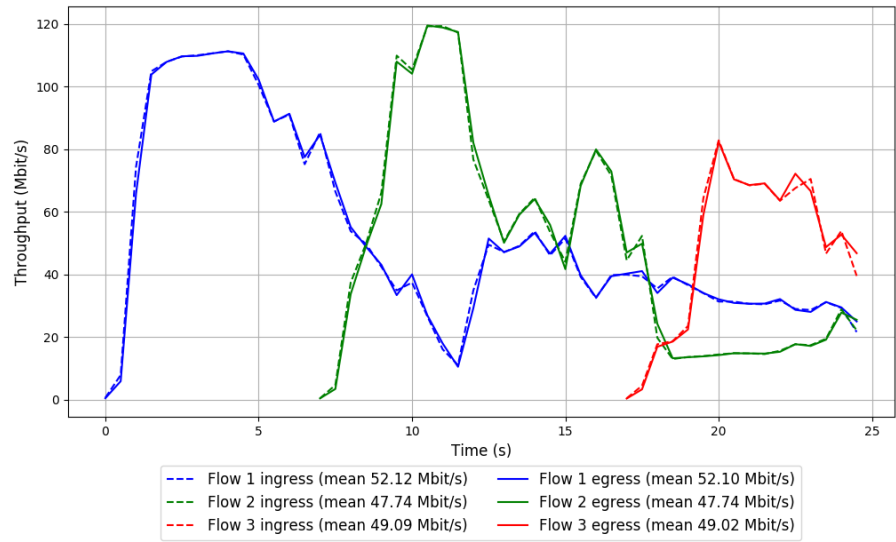
-- Flow 3:

Average throughput: 49.02 Mbit/s

95th percentile per-packet one-way delay: 53.729 ms

Loss rate: 0.01%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2017-08-31 21:47:23

End at: 2017-08-31 21:47:53

Below is generated by plot.py at 2017-09-01 01:00:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 109.12 Mbit/s

95th percentile per-packet one-way delay: 53.743 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 68.73 Mbit/s

95th percentile per-packet one-way delay: 53.731 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 47.33 Mbit/s

95th percentile per-packet one-way delay: 53.763 ms

Loss rate: 0.01%

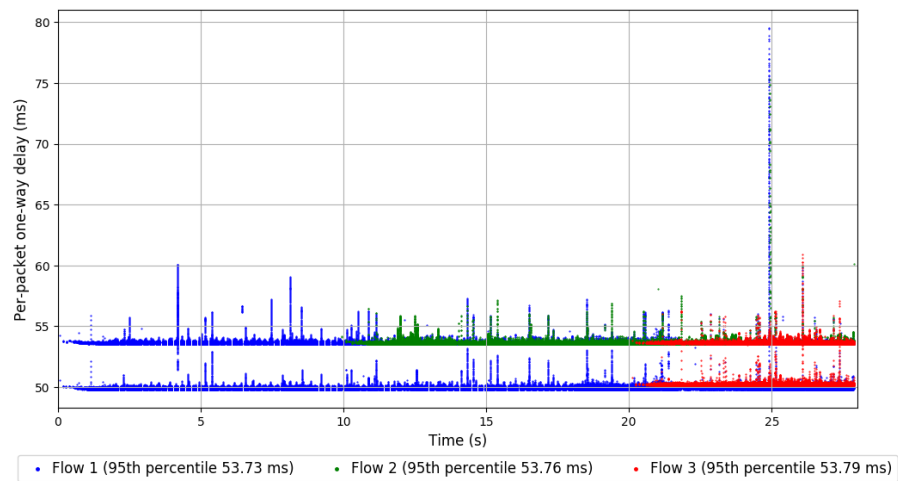
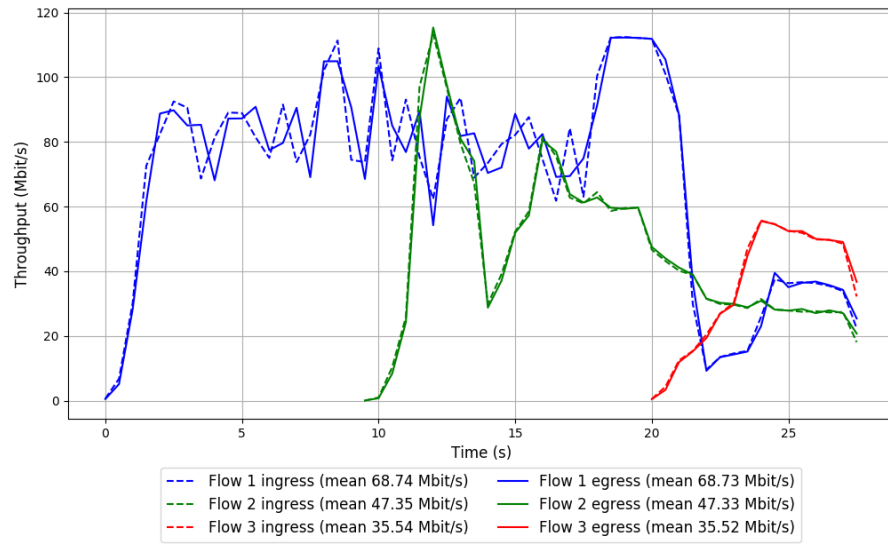
-- Flow 3:

Average throughput: 35.52 Mbit/s

95th percentile per-packet one-way delay: 53.786 ms

Loss rate: 0.07%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2017-08-31 21:59:16

End at: 2017-08-31 21:59:46

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 111.08 Mbit/s

95th percentile per-packet one-way delay: 53.708 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 62.34 Mbit/s

95th percentile per-packet one-way delay: 53.704 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 52.34 Mbit/s

95th percentile per-packet one-way delay: 53.716 ms

Loss rate: 0.01%

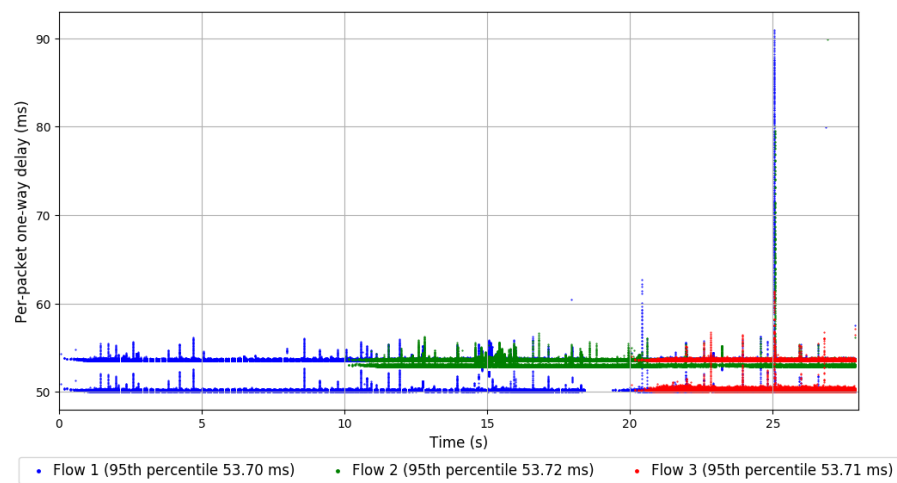
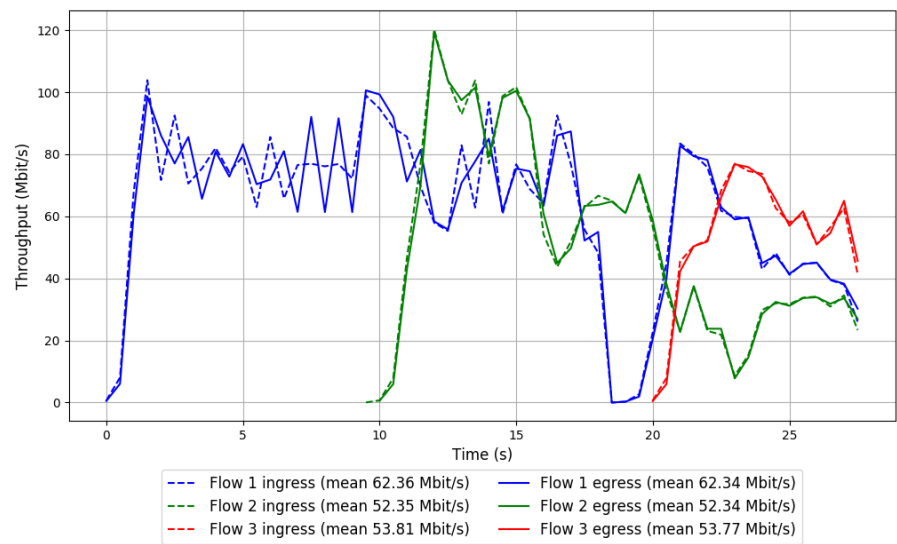
-- Flow 3:

Average throughput: 53.77 Mbit/s

95th percentile per-packet one-way delay: 53.709 ms

Loss rate: 0.02%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2017-08-31 22:11:00

End at: 2017-08-31 22:11:30

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 105.23 Mbit/s

95th percentile per-packet one-way delay: 53.706 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 66.89 Mbit/s

95th percentile per-packet one-way delay: 53.693 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 43.96 Mbit/s

95th percentile per-packet one-way delay: 53.687 ms

Loss rate: 0.01%

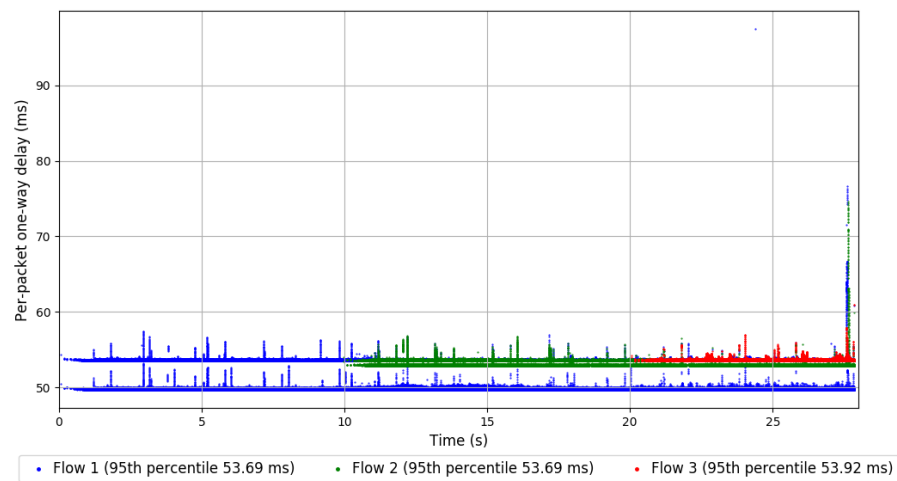
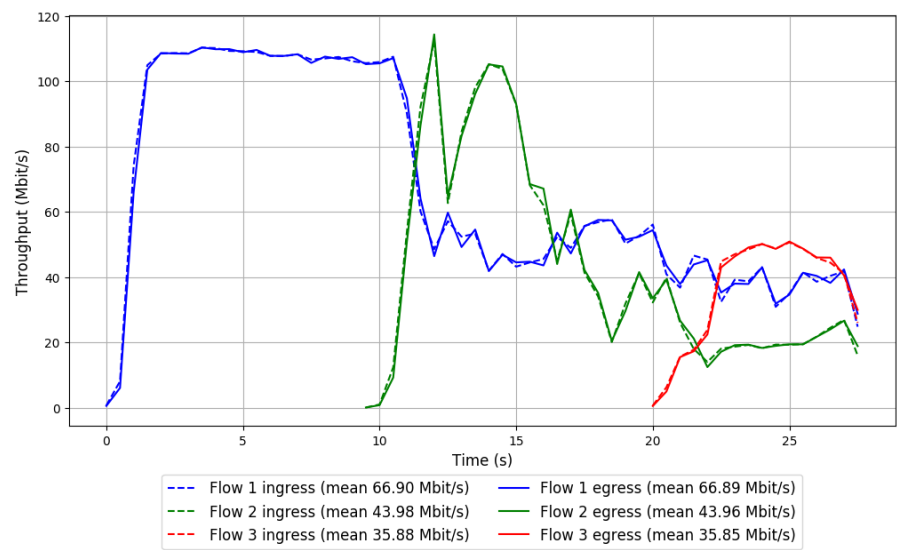
-- Flow 3:

Average throughput: 35.85 Mbit/s

95th percentile per-packet one-way delay: 53.919 ms

Loss rate: 0.04%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2017-08-31 22:23:18

End at: 2017-08-31 22:23:48

Below is generated by plot.py at 2017-09-01 01:01:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 102.48 Mbit/s

95th percentile per-packet one-way delay: 53.704 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 57.17 Mbit/s

95th percentile per-packet one-way delay: 53.682 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 50.94 Mbit/s

95th percentile per-packet one-way delay: 53.724 ms

Loss rate: 0.00%

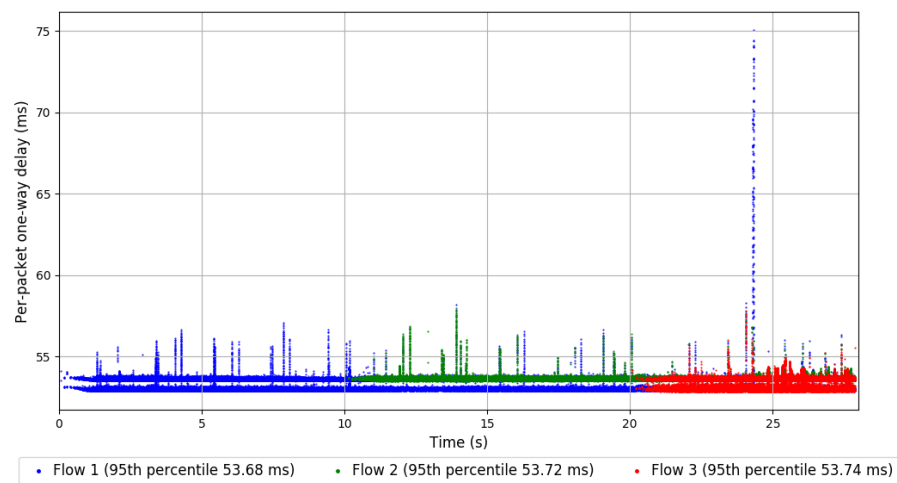
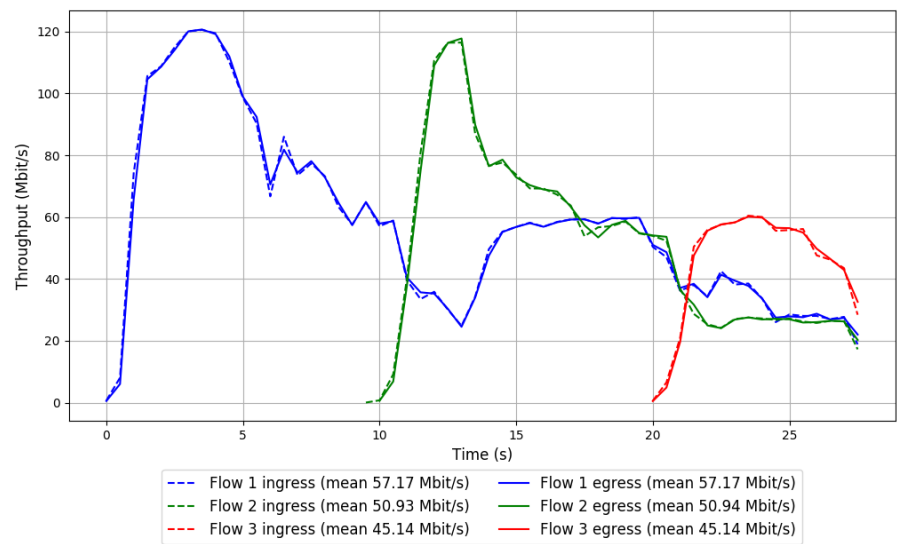
-- Flow 3:

Average throughput: 45.14 Mbit/s

95th percentile per-packet one-way delay: 53.744 ms

Loss rate: 0.04%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2017-08-31 22:35:06

End at: 2017-08-31 22:35:36

Below is generated by plot.py at 2017-09-01 01:02:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 105.38 Mbit/s

95th percentile per-packet one-way delay: 53.702 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 59.02 Mbit/s

95th percentile per-packet one-way delay: 53.697 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 51.75 Mbit/s

95th percentile per-packet one-way delay: 53.700 ms

Loss rate: 0.00%

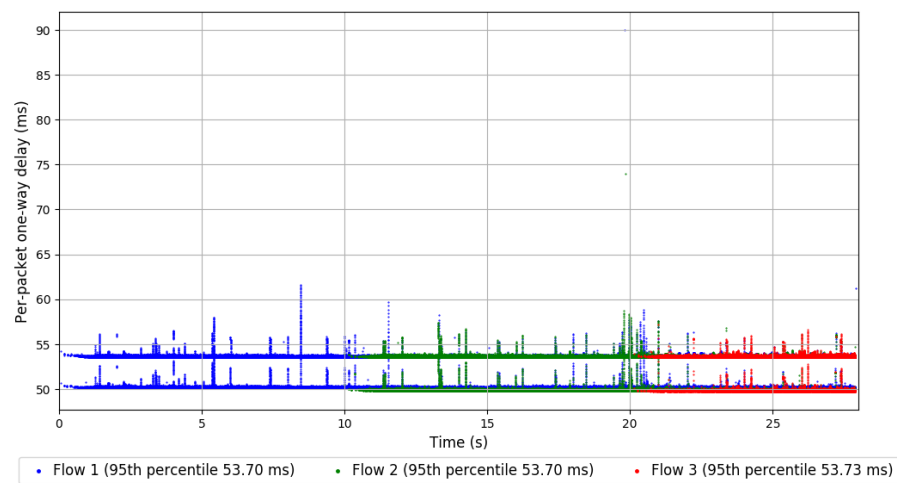
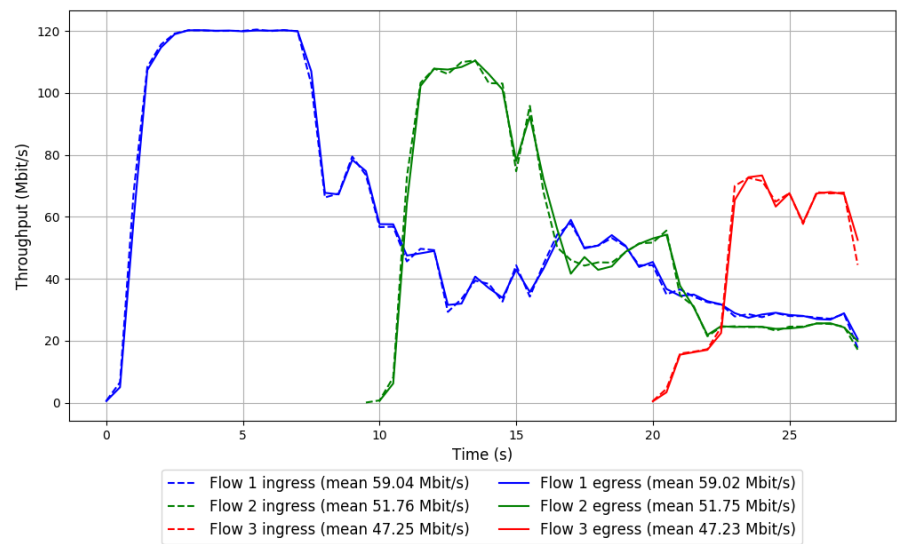
-- Flow 3:

Average throughput: 47.23 Mbit/s

95th percentile per-packet one-way delay: 53.732 ms

Loss rate: 0.00%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2017-08-31 22:46:54

End at: 2017-08-31 22:47:24

Below is generated by plot.py at 2017-09-01 01:02:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 106.75 Mbit/s

95th percentile per-packet one-way delay: 53.784 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 66.77 Mbit/s

95th percentile per-packet one-way delay: 53.760 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 47.83 Mbit/s

95th percentile per-packet one-way delay: 53.745 ms

Loss rate: 0.00%

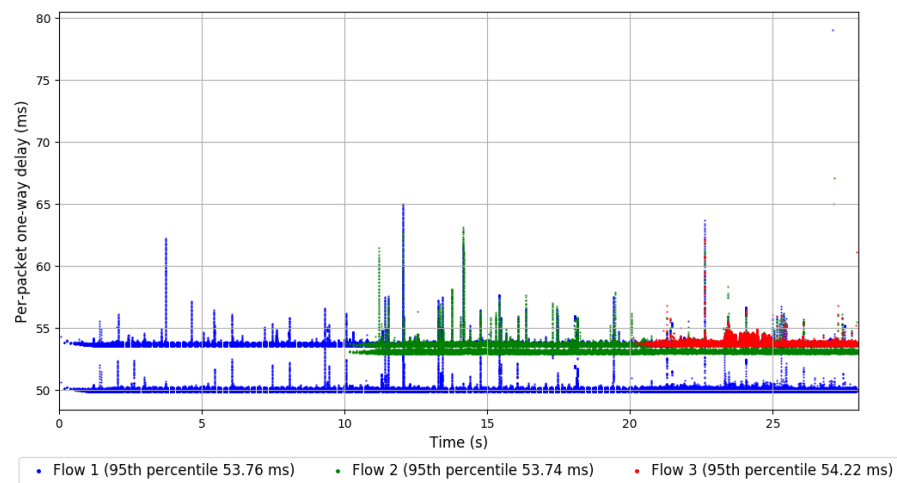
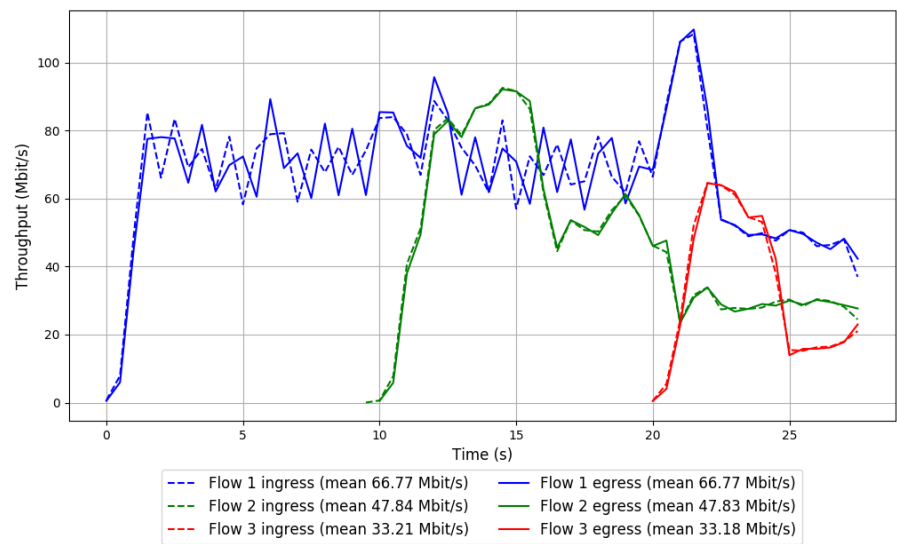
-- Flow 3:

Average throughput: 33.18 Mbit/s

95th percentile per-packet one-way delay: 54.218 ms

Loss rate: 0.03%

Run 10: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2017-08-31 21:02:49

End at: 2017-08-31 21:03:19

Below is generated by plot.py at 2017-09-01 01:02:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 261.59 Mbit/s

95th percentile per-packet one-way delay: 68.600 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 129.60 Mbit/s

95th percentile per-packet one-way delay: 63.049 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 107.40 Mbit/s

95th percentile per-packet one-way delay: 62.866 ms

Loss rate: 0.00%

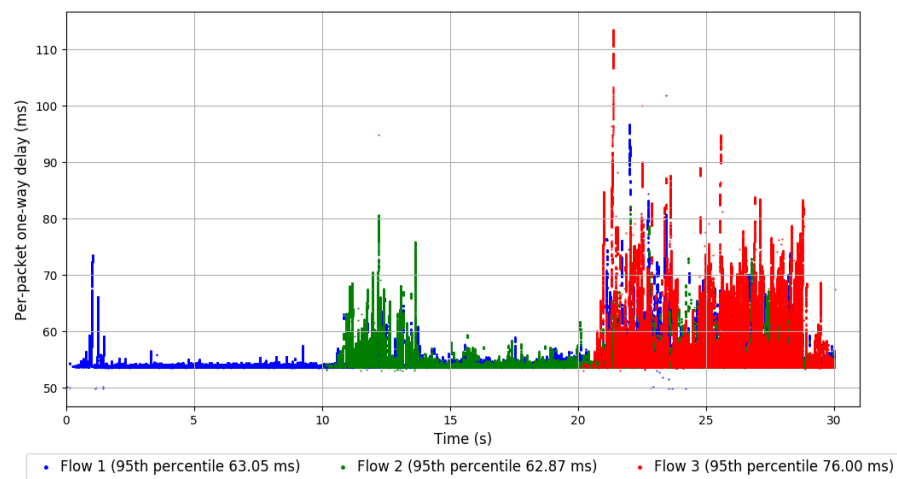
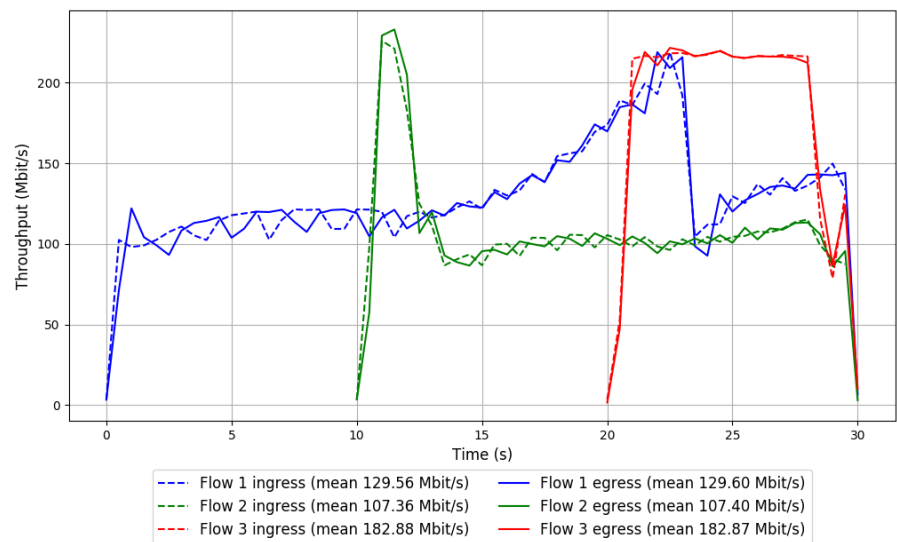
-- Flow 3:

Average throughput: 182.87 Mbit/s

95th percentile per-packet one-way delay: 76.002 ms

Loss rate: 0.01%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2017-08-31 21:14:41

End at: 2017-08-31 21:15:11

Below is generated by plot.py at 2017-09-01 01:02:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 243.41 Mbit/s

95th percentile per-packet one-way delay: 63.039 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 116.20 Mbit/s

95th percentile per-packet one-way delay: 58.942 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 113.22 Mbit/s

95th percentile per-packet one-way delay: 61.803 ms

Loss rate: 0.00%

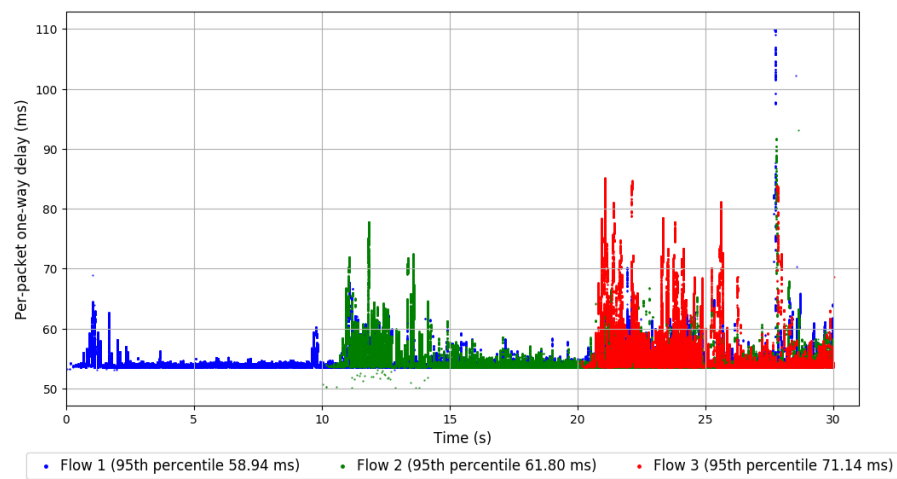
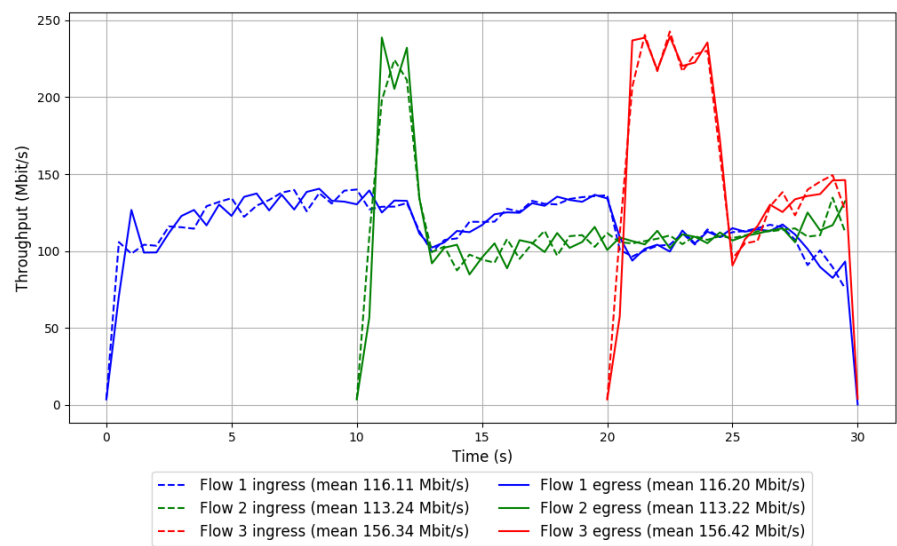
-- Flow 3:

Average throughput: 156.42 Mbit/s

95th percentile per-packet one-way delay: 71.145 ms

Loss rate: 0.01%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2017-08-31 21:26:35

End at: 2017-08-31 21:27:05

Below is generated by plot.py at 2017-09-01 01:03:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 253.91 Mbit/s

95th percentile per-packet one-way delay: 63.622 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 115.16 Mbit/s

95th percentile per-packet one-way delay: 57.446 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 128.73 Mbit/s

95th percentile per-packet one-way delay: 59.773 ms

Loss rate: 0.00%

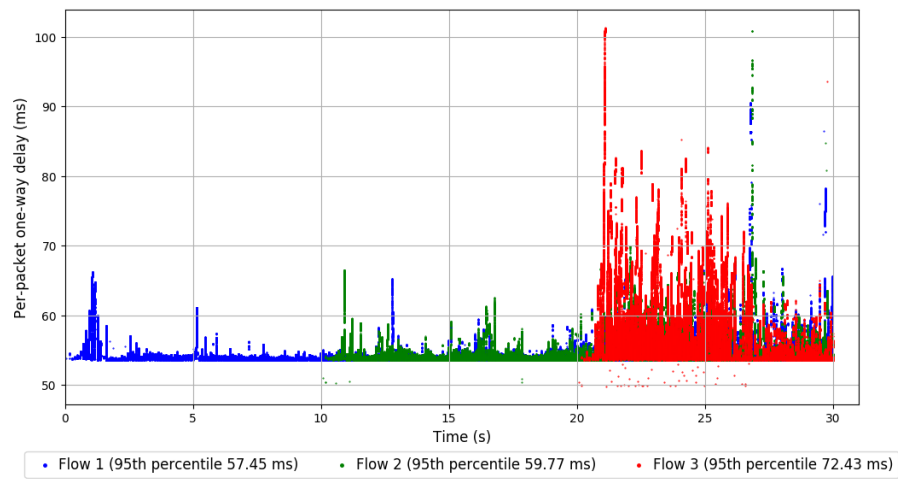
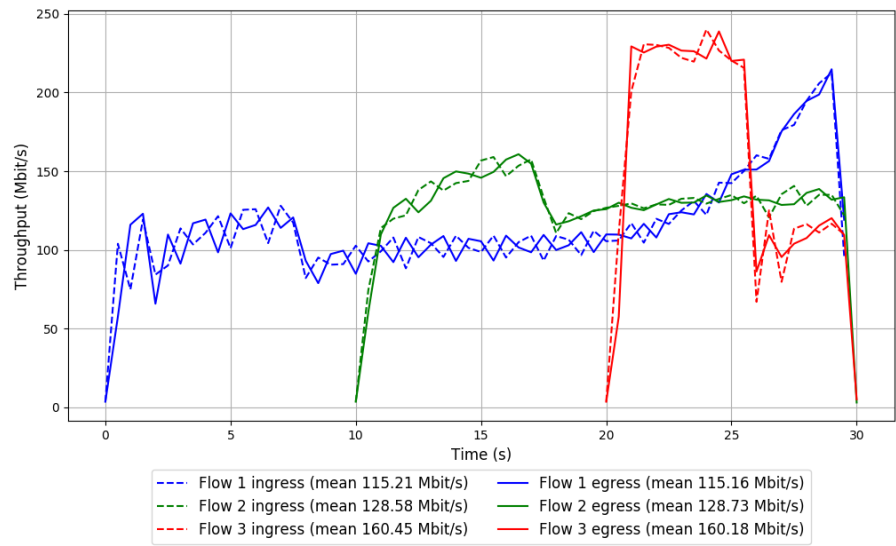
-- Flow 3:

Average throughput: 160.18 Mbit/s

95th percentile per-packet one-way delay: 72.434 ms

Loss rate: 0.18%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2017-08-31 21:38:35

End at: 2017-08-31 21:39:05

Below is generated by plot.py at 2017-09-01 01:04:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 309.55 Mbit/s

95th percentile per-packet one-way delay: 70.095 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 147.34 Mbit/s

95th percentile per-packet one-way delay: 64.699 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 146.88 Mbit/s

95th percentile per-packet one-way delay: 64.580 ms

Loss rate: 0.00%

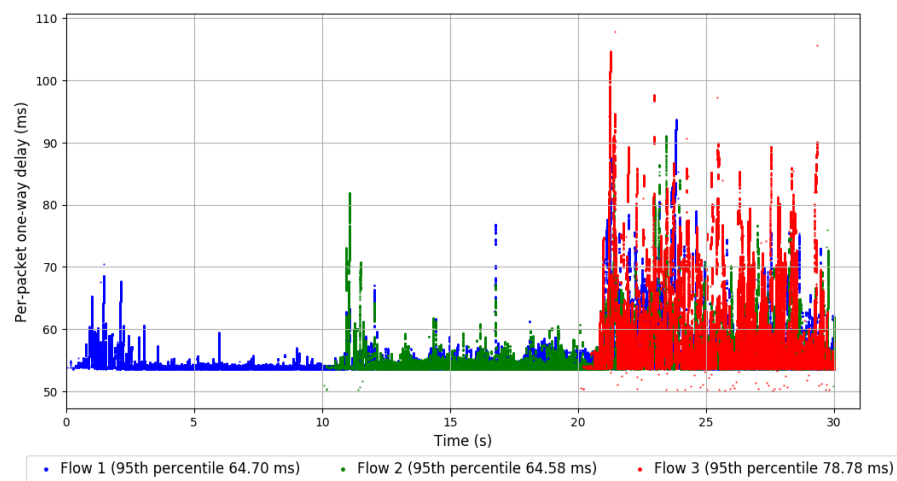
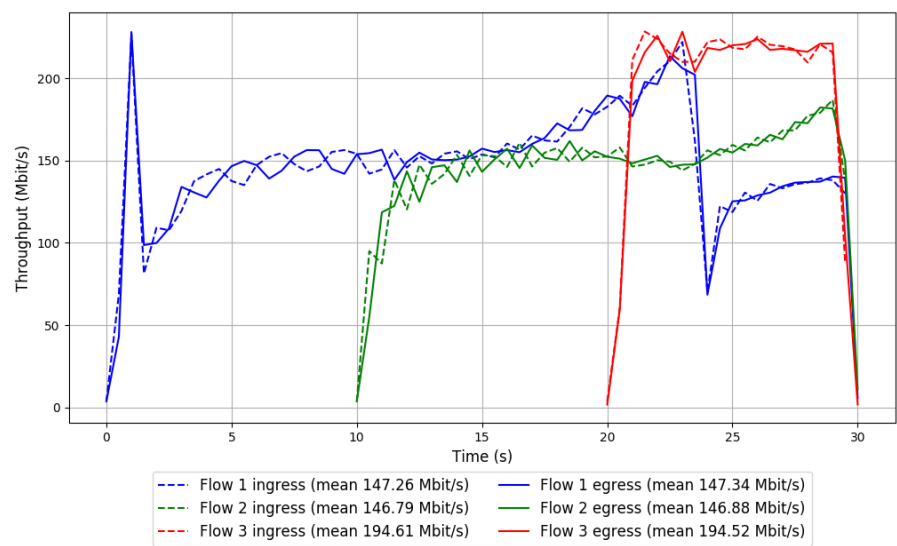
-- Flow 3:

Average throughput: 194.52 Mbit/s

95th percentile per-packet one-way delay: 78.784 ms

Loss rate: 0.01%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2017-08-31 21:50:34

End at: 2017-08-31 21:51:04

Below is generated by plot.py at 2017-09-01 01:04:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 252.20 Mbit/s

95th percentile per-packet one-way delay: 63.217 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 114.78 Mbit/s

95th percentile per-packet one-way delay: 58.428 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 119.10 Mbit/s

95th percentile per-packet one-way delay: 60.865 ms

Loss rate: 0.01%

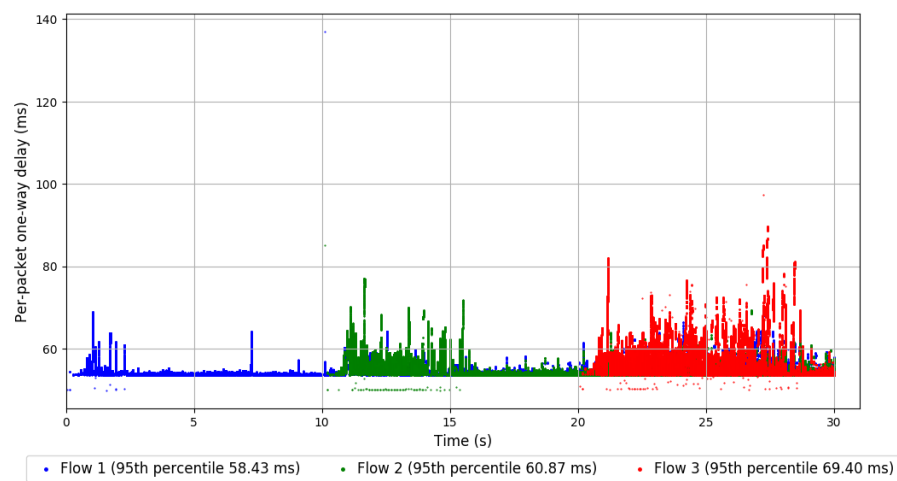
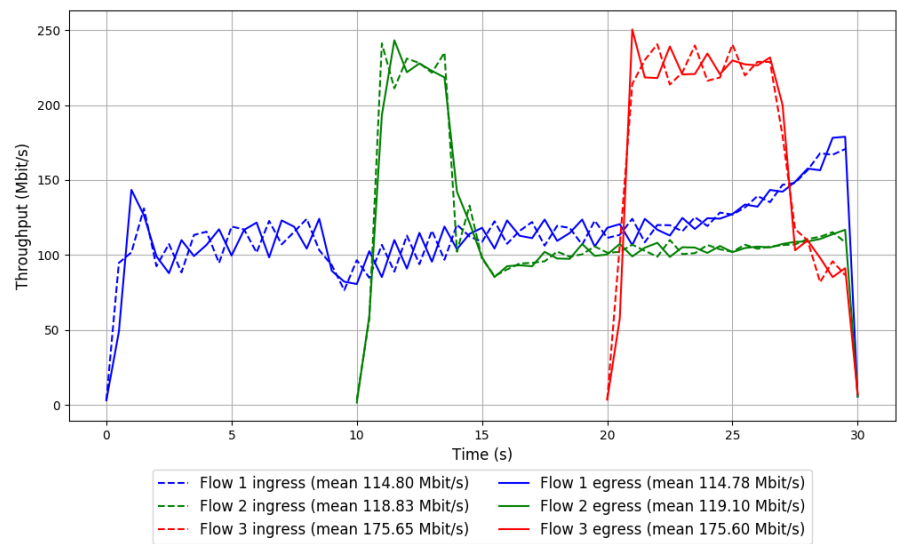
-- Flow 3:

Average throughput: 175.60 Mbit/s

95th percentile per-packet one-way delay: 69.400 ms

Loss rate: 0.00%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2017-08-31 22:02:31

End at: 2017-08-31 22:03:01

Below is generated by plot.py at 2017-09-01 01:04:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 232.86 Mbit/s

95th percentile per-packet one-way delay: 61.134 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 123.37 Mbit/s

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

Loss rate: 0.04%

-- Flow 2:

Average throughput: 161.74 Mbit/s

95th percentile per-packet one-way delay: 64.877 ms

Loss rate: 0.02%

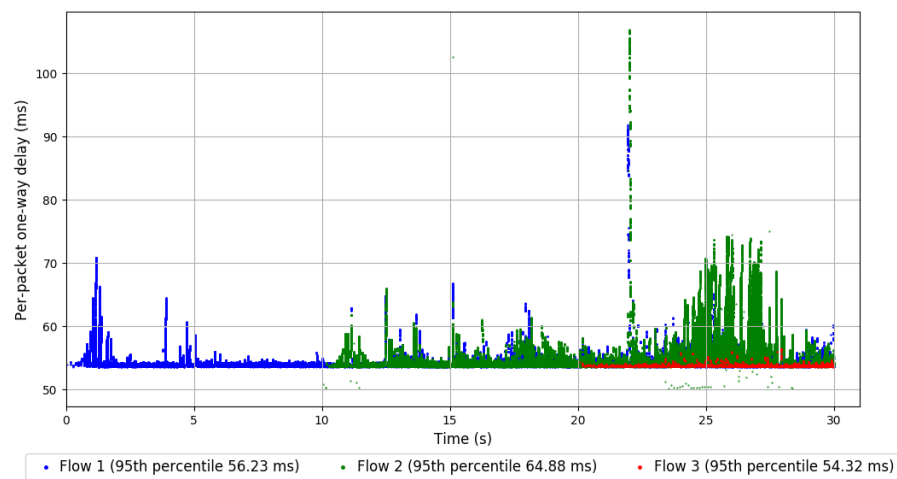
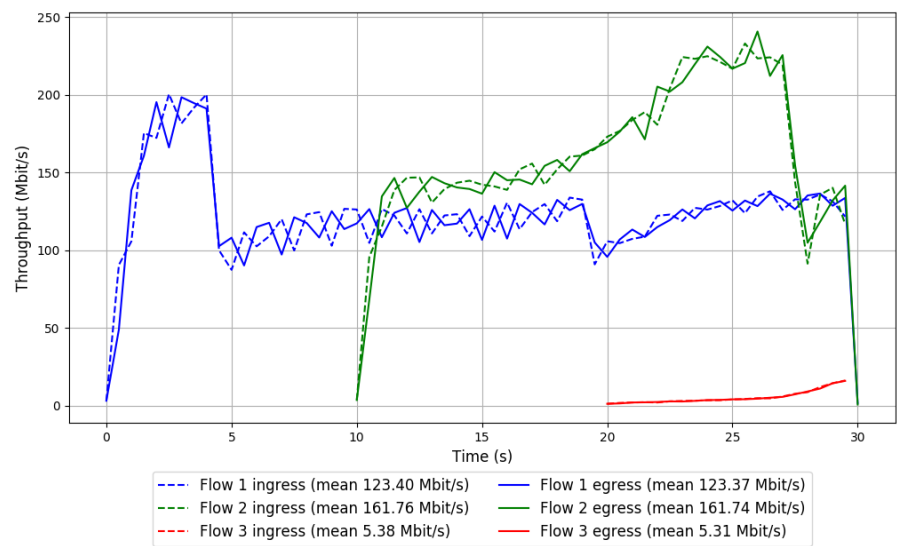
-- Flow 3:

Average throughput: 5.31 Mbit/s

95th percentile per-packet one-way delay: 54.318 ms

Loss rate: 1.64%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2017-08-31 22:14:23

End at: 2017-08-31 22:14:53

Below is generated by plot.py at 2017-09-01 01:05:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 216.35 Mbit/s

95th percentile per-packet one-way delay: 60.885 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 87.41 Mbit/s

95th percentile per-packet one-way delay: 58.254 ms

Loss rate: 0.09%

-- Flow 2:

Average throughput: 123.77 Mbit/s

95th percentile per-packet one-way delay: 60.778 ms

Loss rate: 0.02%

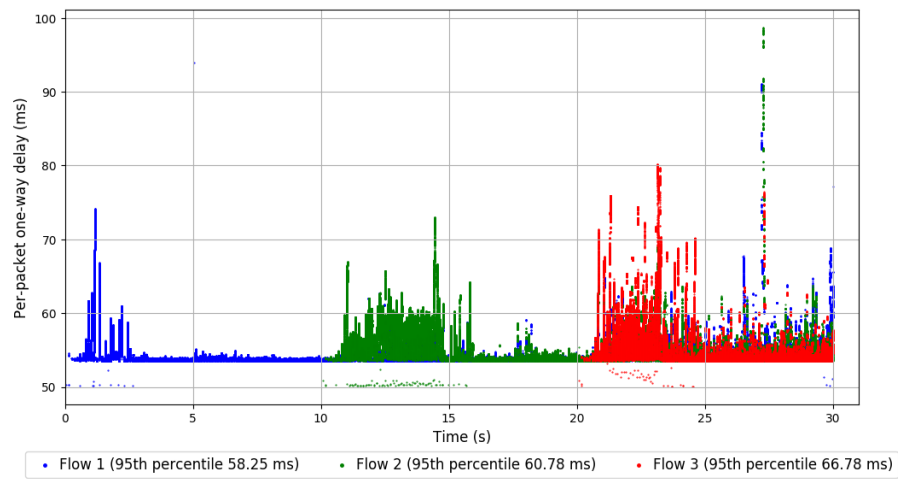
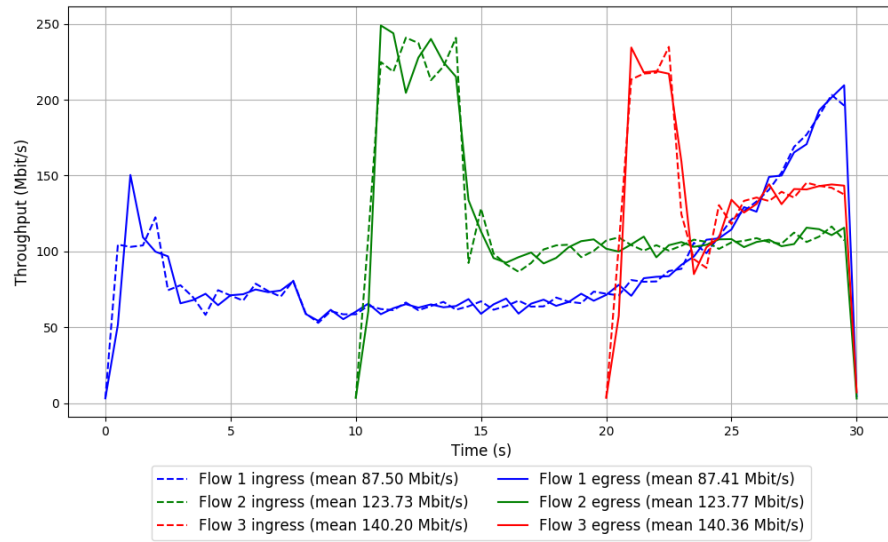
-- Flow 3:

Average throughput: 140.36 Mbit/s

95th percentile per-packet one-way delay: 66.780 ms

Loss rate: 0.02%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2017-08-31 22:26:30

End at: 2017-08-31 22:27:00

Below is generated by plot.py at 2017-09-01 01:05:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 245.16 Mbit/s

95th percentile per-packet one-way delay: 65.339 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 123.73 Mbit/s

95th percentile per-packet one-way delay: 63.628 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 109.37 Mbit/s

95th percentile per-packet one-way delay: 59.226 ms

Loss rate: 0.03%

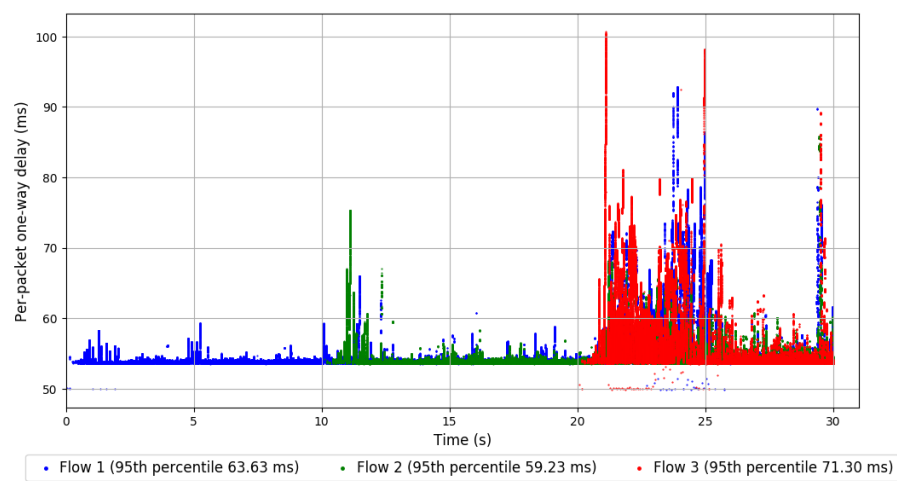
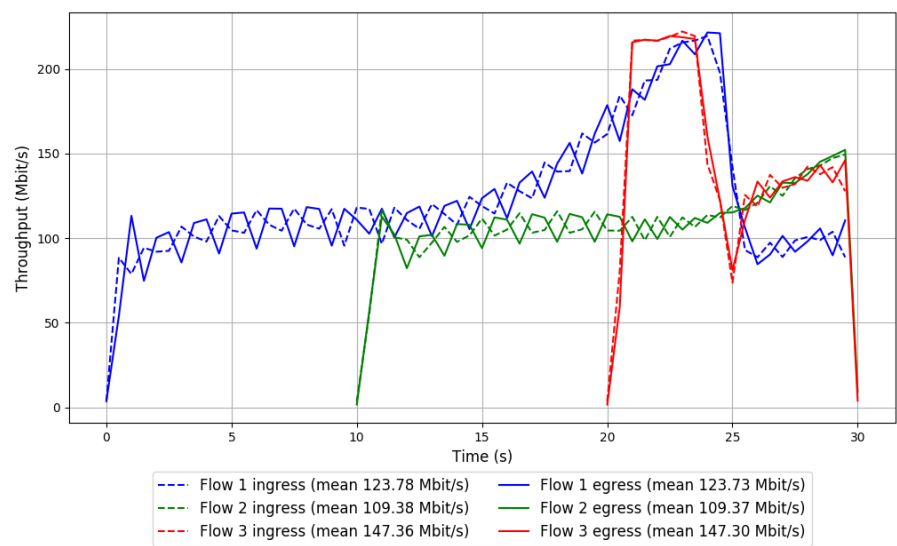
-- Flow 3:

Average throughput: 147.30 Mbit/s

95th percentile per-packet one-way delay: 71.297 ms

Loss rate: 0.01%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2017-08-31 22:38:29

End at: 2017-08-31 22:38:59

Below is generated by plot.py at 2017-09-01 01:06:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 275.04 Mbit/s

95th percentile per-packet one-way delay: 67.287 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 125.16 Mbit/s

95th percentile per-packet one-way delay: 63.497 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 155.35 Mbit/s

95th percentile per-packet one-way delay: 65.532 ms

Loss rate: 0.00%

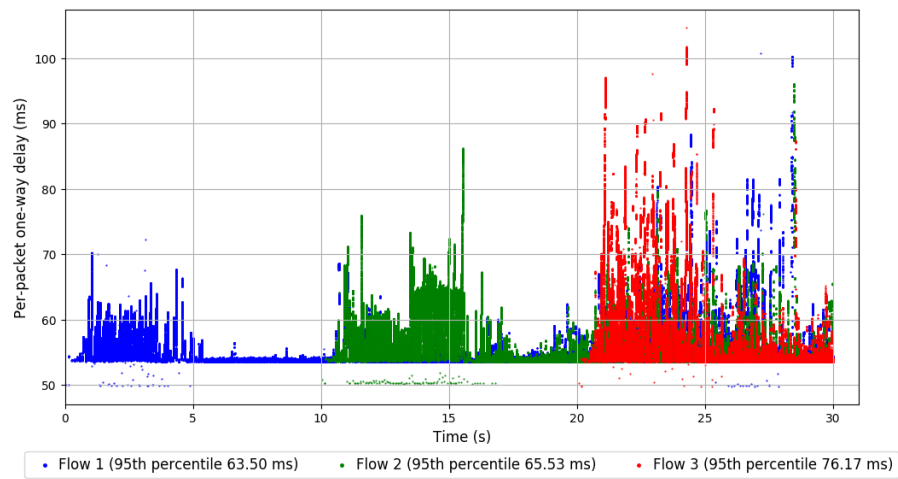
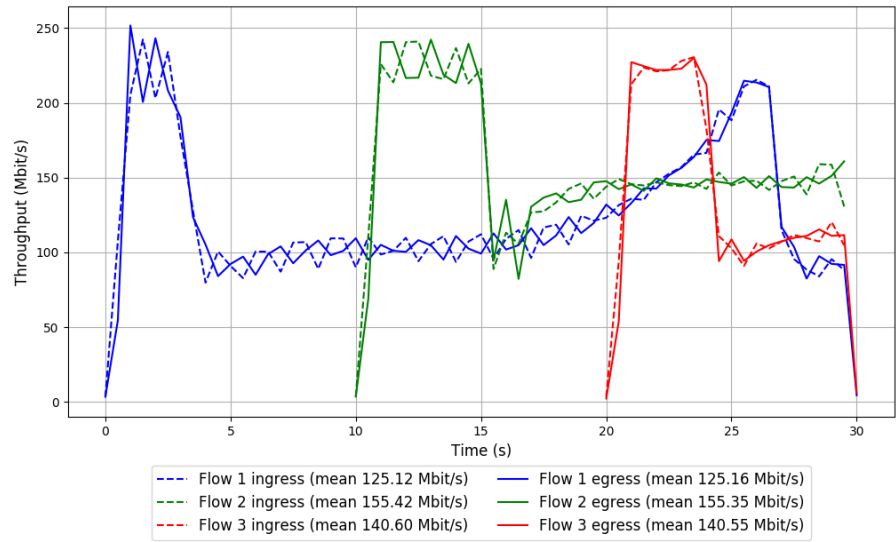
-- Flow 3:

Average throughput: 140.55 Mbit/s

95th percentile per-packet one-way delay: 76.168 ms

Loss rate: 0.00%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2017-08-31 22:50:17

End at: 2017-08-31 22:50:47

Below is generated by plot.py at 2017-09-01 01:06:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 285.27 Mbit/s

95th percentile per-packet one-way delay: 63.242 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 163.54 Mbit/s

95th percentile per-packet one-way delay: 62.308 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 109.36 Mbit/s

95th percentile per-packet one-way delay: 60.818 ms

Loss rate: 0.08%

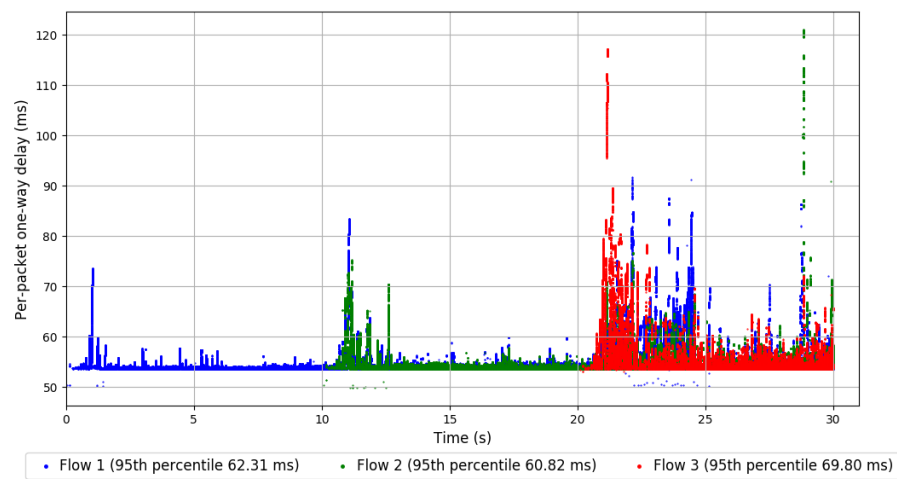
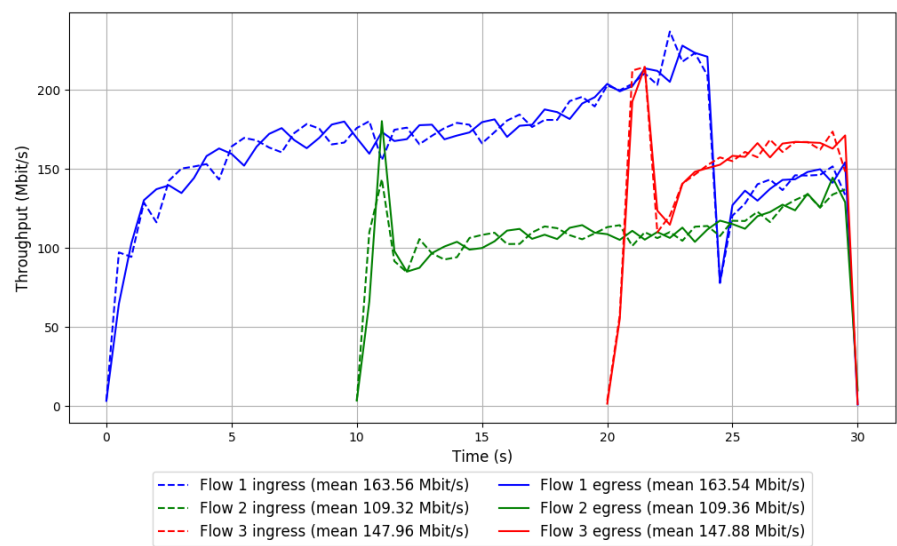
-- Flow 3:

Average throughput: 147.88 Mbit/s

95th percentile per-packet one-way delay: 69.802 ms

Loss rate: 0.00%

Run 10: Report of TCP Cubic — Data Link

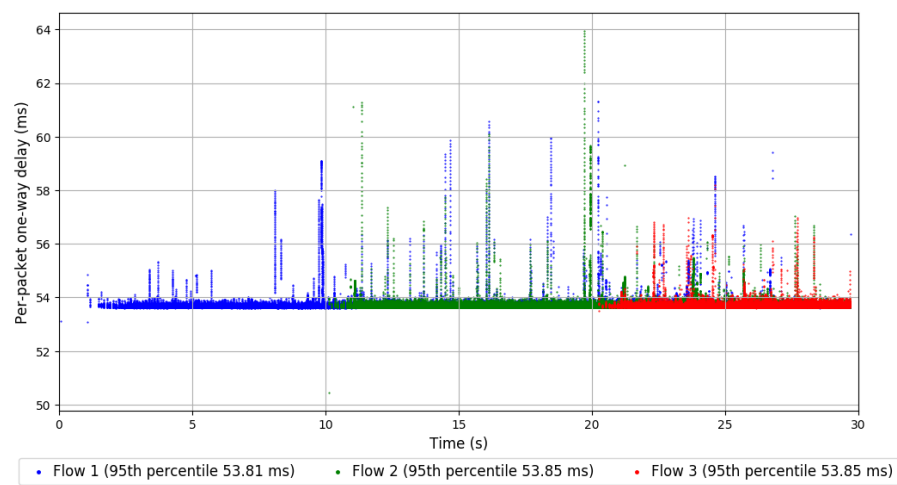
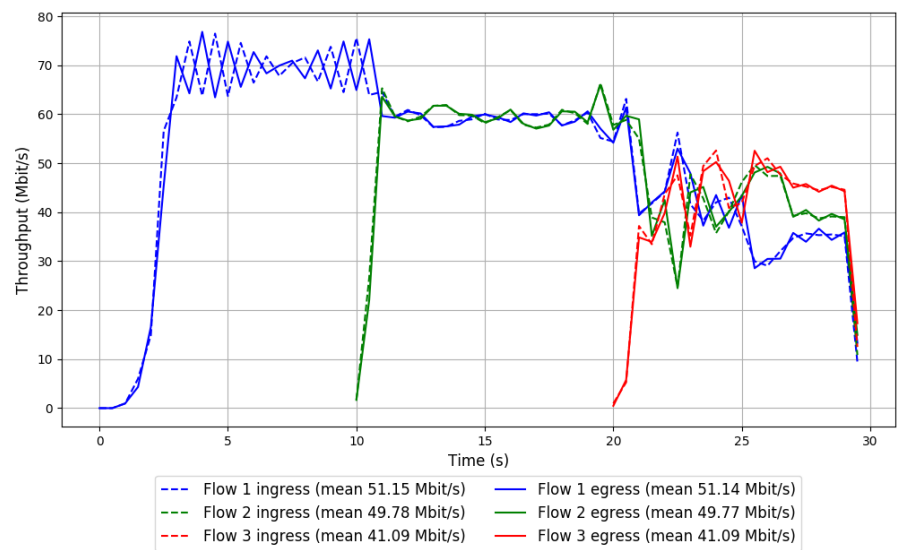


```
Run 1: Statistics of Indigo

Start at: 2017-08-31 20:57:58
End at: 2017-08-31 20:58:28

# Below is generated by plot.py at 2017-09-01 01:06:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.05 Mbit/s
95th percentile per-packet one-way delay: 53.828 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 51.14 Mbit/s
95th percentile per-packet one-way delay: 53.806 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 49.77 Mbit/s
95th percentile per-packet one-way delay: 53.849 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 41.09 Mbit/s
95th percentile per-packet one-way delay: 53.855 ms
Loss rate: 0.00%
```


Run 1: Report of Indigo — Data Link

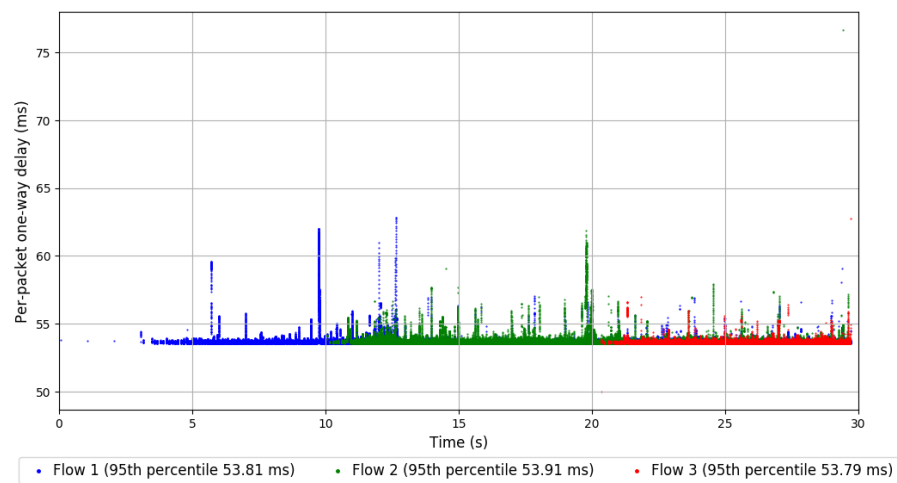
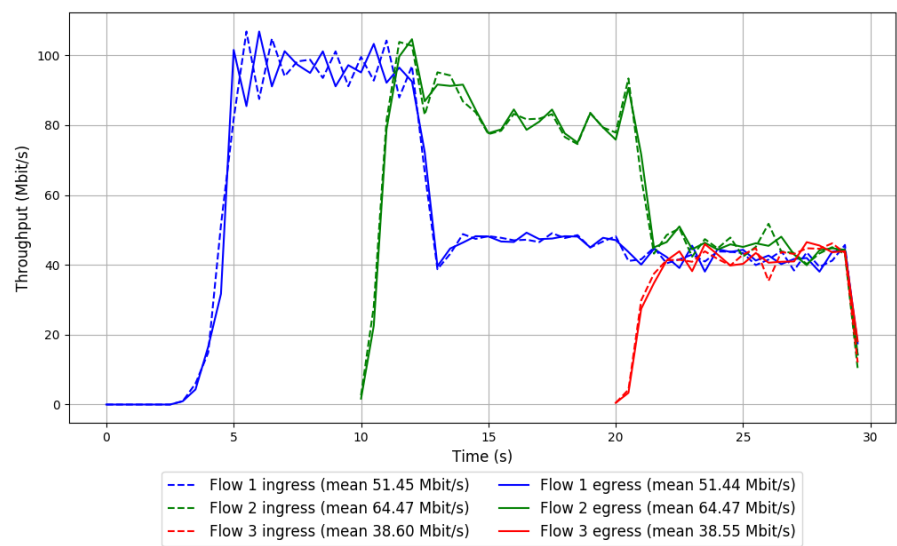


```
Run 2: Statistics of Indigo

Start at: 2017-08-31 21:10:00
End at: 2017-08-31 21:10:30

# Below is generated by plot.py at 2017-09-01 01:06:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 106.25 Mbit/s
95th percentile per-packet one-way delay: 53.851 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 51.44 Mbit/s
95th percentile per-packet one-way delay: 53.814 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 64.47 Mbit/s
95th percentile per-packet one-way delay: 53.914 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 38.55 Mbit/s
95th percentile per-packet one-way delay: 53.787 ms
Loss rate: 0.01%
```

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2017-08-31 21:21:42

End at: 2017-08-31 21:22:12

Below is generated by plot.py at 2017-09-01 01:06:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 108.47 Mbit/s

95th percentile per-packet one-way delay: 53.952 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 43.71 Mbit/s

95th percentile per-packet one-way delay: 53.775 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 80.80 Mbit/s

95th percentile per-packet one-way delay: 54.249 ms

Loss rate: 0.00%

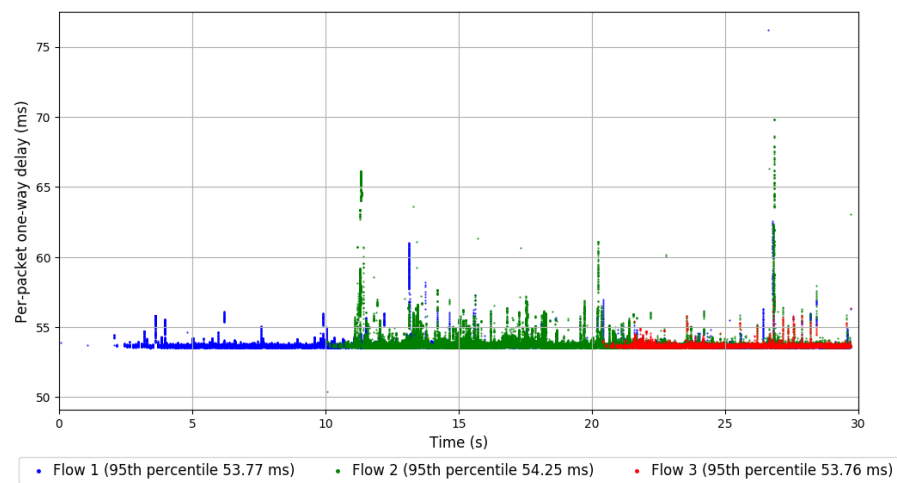
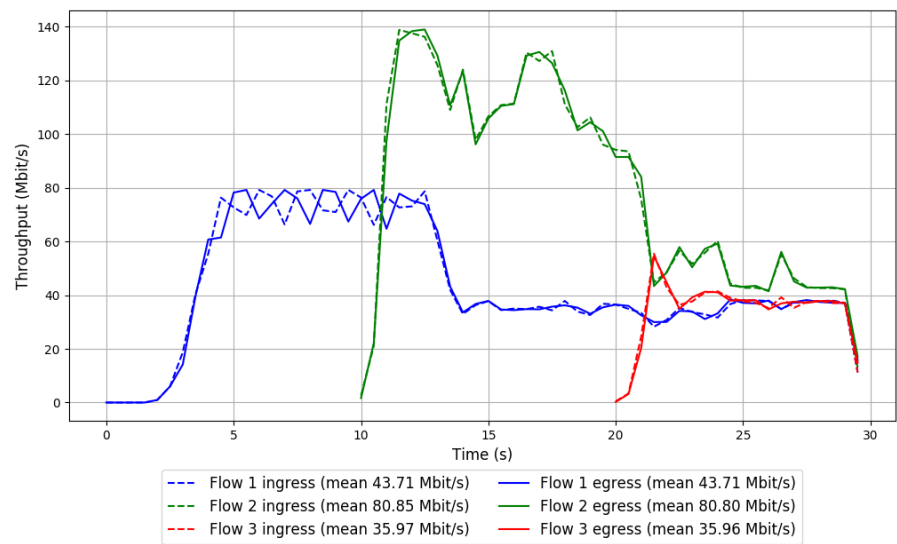
-- Flow 3:

Average throughput: 35.96 Mbit/s

95th percentile per-packet one-way delay: 53.764 ms

Loss rate: 0.01%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2017-08-31 21:33:54

End at: 2017-08-31 21:34:24

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 103.73 Mbit/s

95th percentile per-packet one-way delay: 53.844 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 53.95 Mbit/s

95th percentile per-packet one-way delay: 53.852 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 60.27 Mbit/s

95th percentile per-packet one-way delay: 53.861 ms

Loss rate: 0.00%

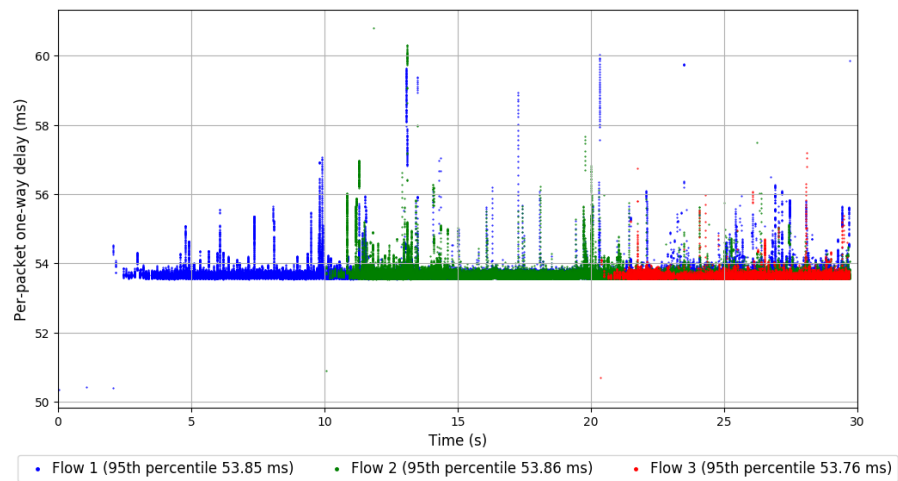
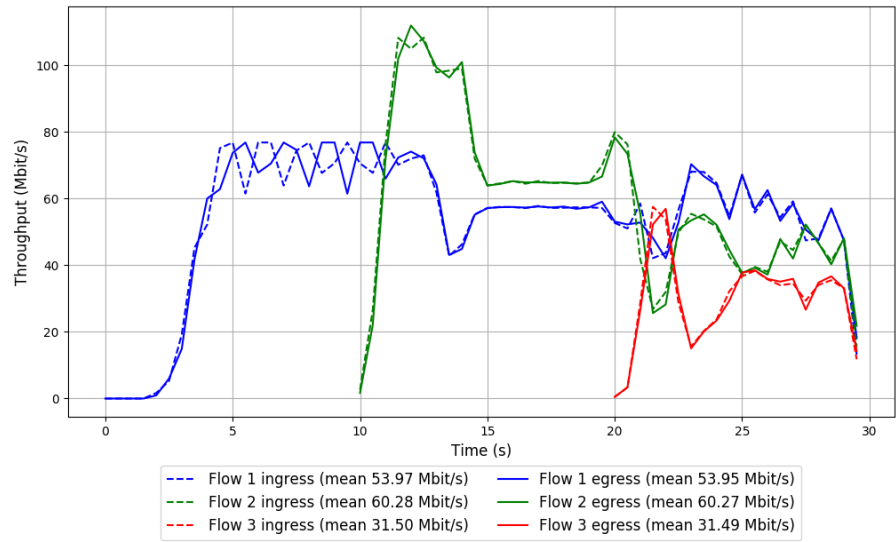
-- Flow 3:

Average throughput: 31.49 Mbit/s

95th percentile per-packet one-way delay: 53.762 ms

Loss rate: 0.00%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2017-08-31 21:45:53

End at: 2017-08-31 21:46:23

Below is generated by plot.py at 2017-09-01 01:07:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 104.23 Mbit/s

95th percentile per-packet one-way delay: 53.919 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 40.37 Mbit/s

95th percentile per-packet one-way delay: 53.836 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 81.74 Mbit/s

95th percentile per-packet one-way delay: 54.045 ms

Loss rate: 0.02%

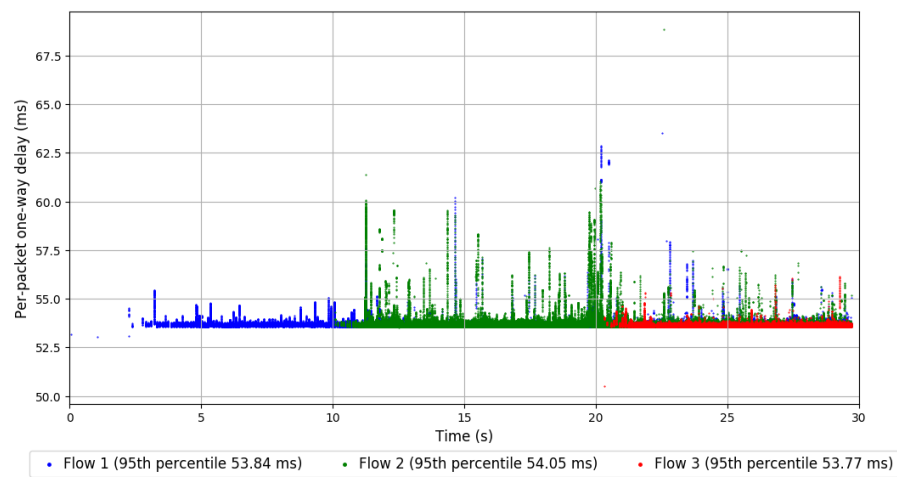
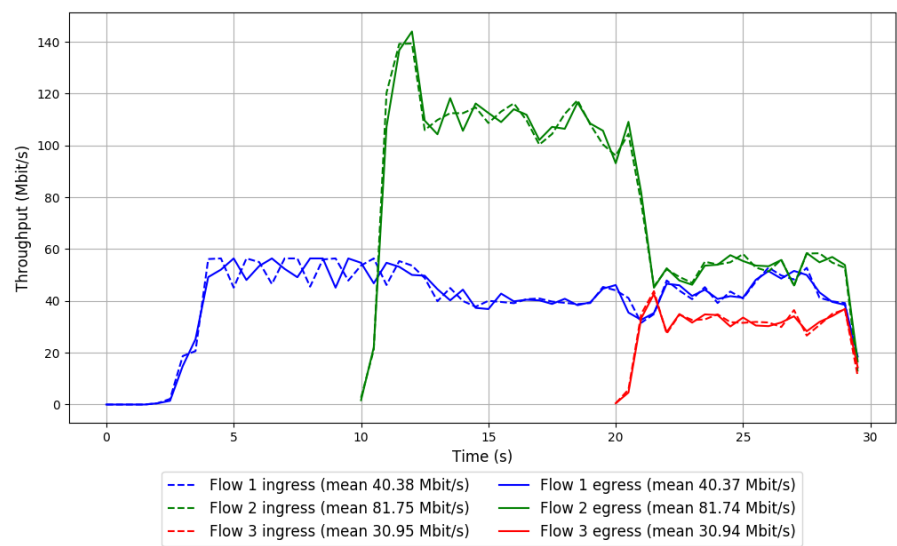
-- Flow 3:

Average throughput: 30.94 Mbit/s

95th percentile per-packet one-way delay: 53.766 ms

Loss rate: 0.00%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2017-08-31 21:57:45

End at: 2017-08-31 21:58:15

Below is generated by plot.py at 2017-09-01 01:07:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 104.32 Mbit/s

95th percentile per-packet one-way delay: 53.865 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 52.00 Mbit/s

95th percentile per-packet one-way delay: 53.875 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 54.23 Mbit/s

95th percentile per-packet one-way delay: 53.842 ms

Loss rate: 0.00%

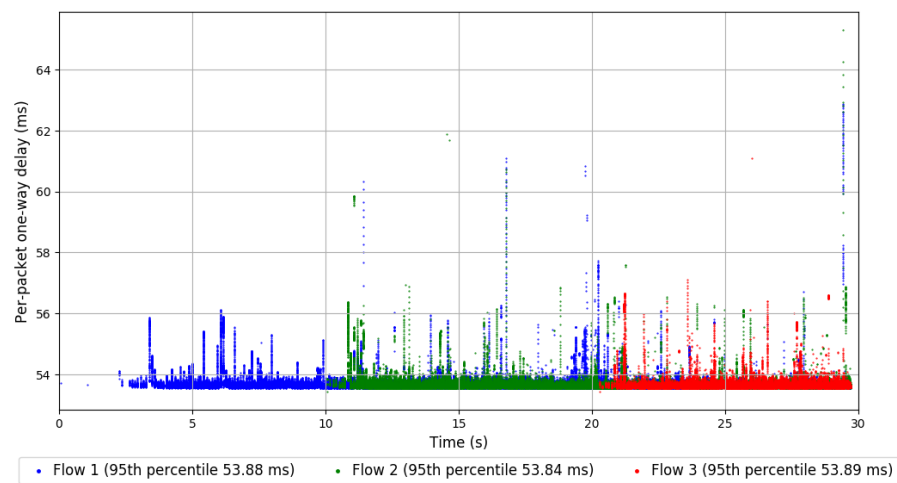
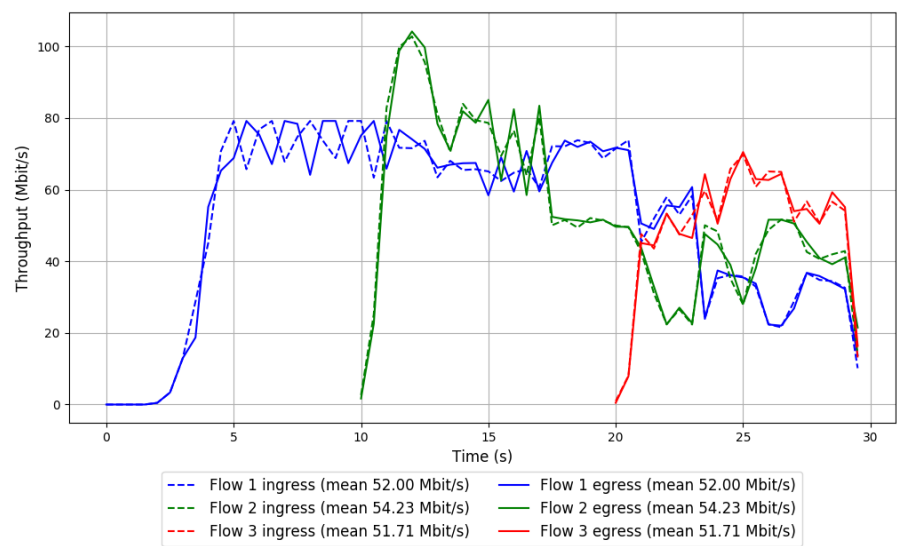
-- Flow 3:

Average throughput: 51.71 Mbit/s

95th percentile per-packet one-way delay: 53.888 ms

Loss rate: 0.00%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2017-08-31 22:09:31

End at: 2017-08-31 22:10:01

Below is generated by plot.py at 2017-09-01 01:07:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 101.60 Mbit/s

95th percentile per-packet one-way delay: 53.921 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 49.24 Mbit/s

95th percentile per-packet one-way delay: 53.871 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 58.23 Mbit/s

95th percentile per-packet one-way delay: 54.068 ms

Loss rate: 0.00%

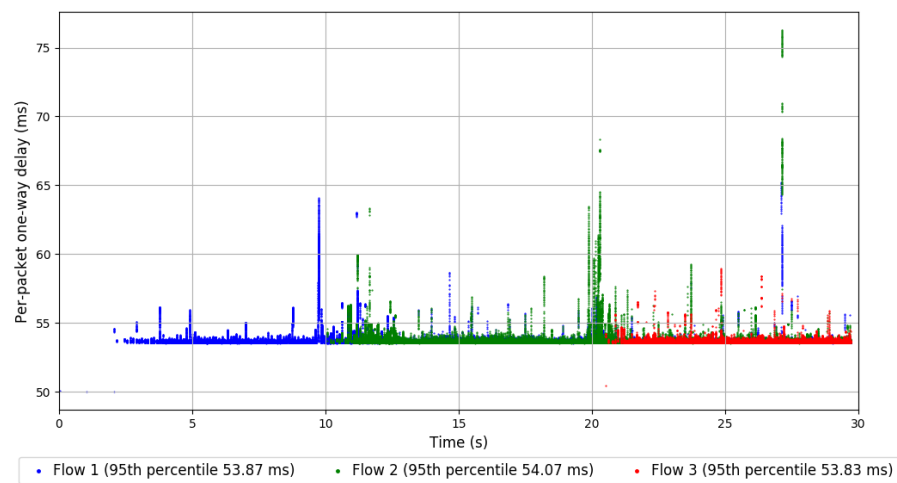
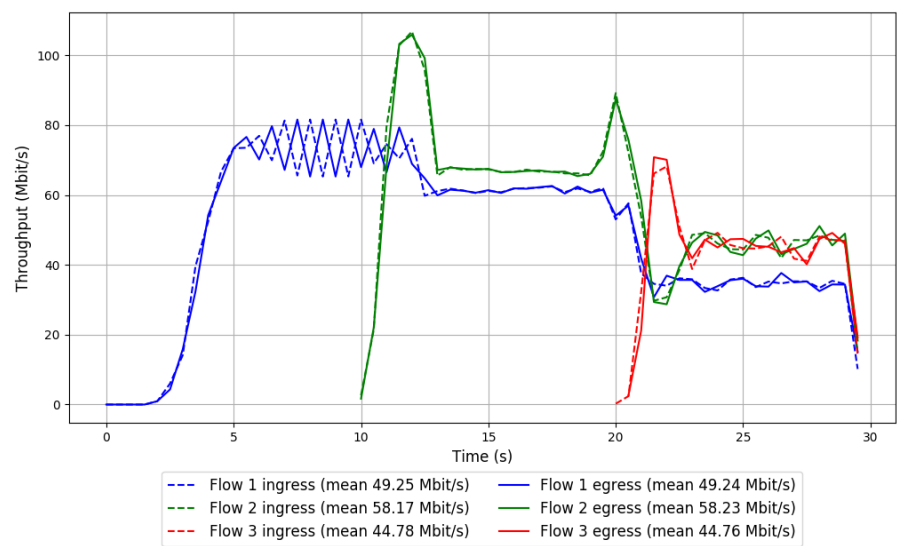
-- Flow 3:

Average throughput: 44.76 Mbit/s

95th percentile per-packet one-way delay: 53.832 ms

Loss rate: 0.00%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2017-08-31 22:21:48

End at: 2017-08-31 22:22:18

Below is generated by plot.py at 2017-09-01 01:07:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 102.61 Mbit/s

95th percentile per-packet one-way delay: 53.810 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 46.40 Mbit/s

95th percentile per-packet one-way delay: 53.747 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 60.70 Mbit/s

95th percentile per-packet one-way delay: 53.865 ms

Loss rate: 0.00%

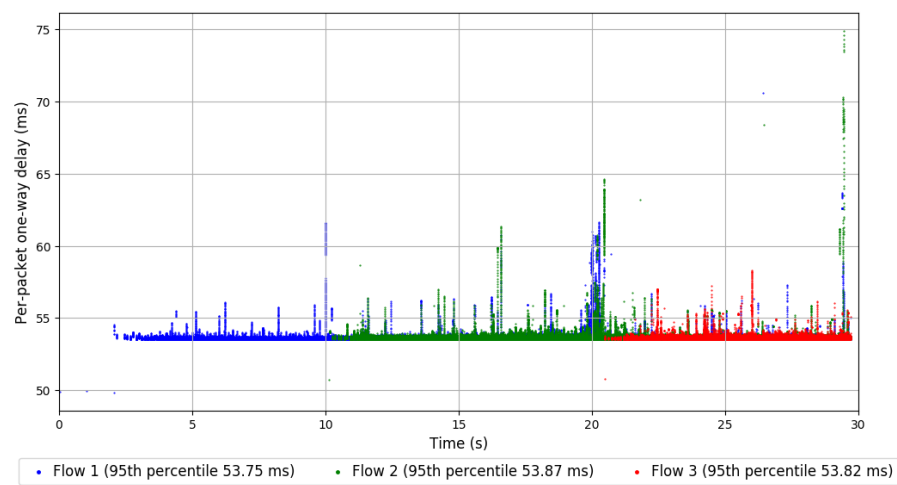
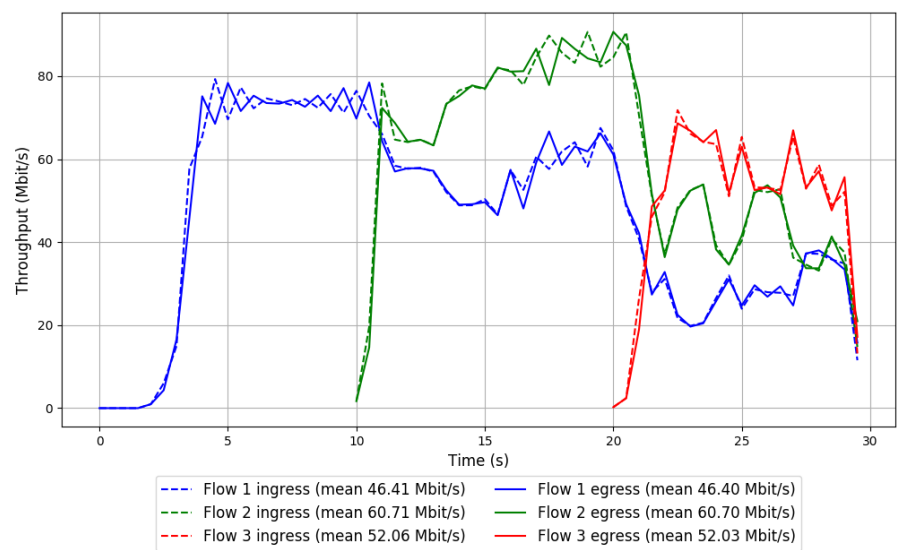
-- Flow 3:

Average throughput: 52.03 Mbit/s

95th percentile per-packet one-way delay: 53.822 ms

Loss rate: 0.02%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2017-08-31 22:33:36

End at: 2017-08-31 22:34:06

Below is generated by plot.py at 2017-09-01 01:08:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 99.16 Mbit/s

95th percentile per-packet one-way delay: 53.838 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 46.85 Mbit/s

95th percentile per-packet one-way delay: 53.775 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 58.22 Mbit/s

95th percentile per-packet one-way delay: 53.877 ms

Loss rate: 0.00%

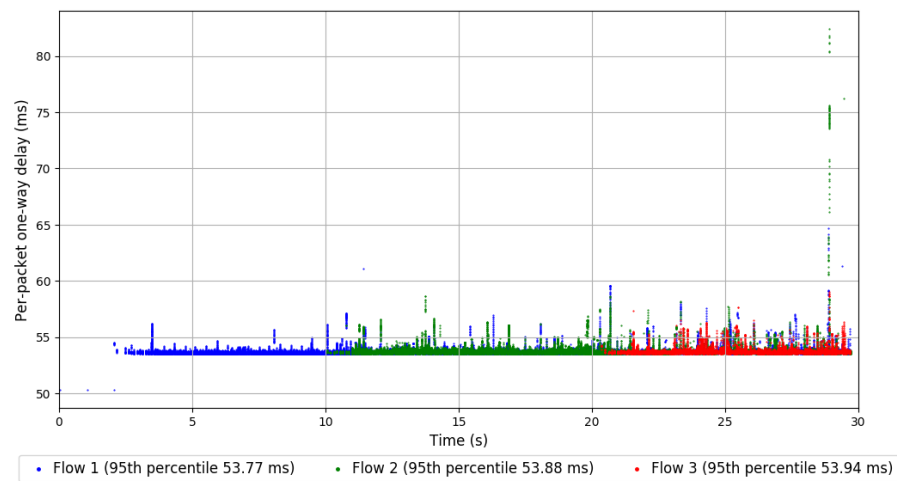
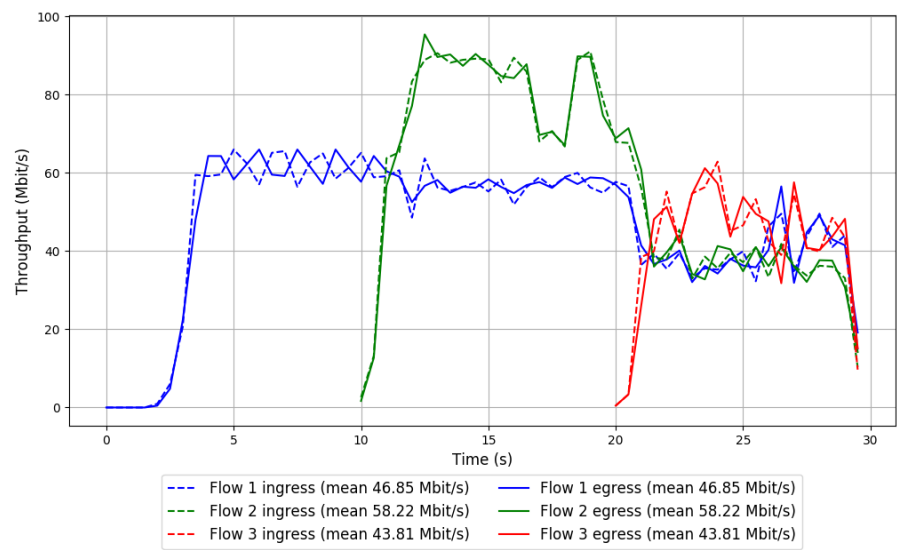
-- Flow 3:

Average throughput: 43.81 Mbit/s

95th percentile per-packet one-way delay: 53.943 ms

Loss rate: 0.00%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2017-08-31 22:45:24

End at: 2017-08-31 22:45:54

Below is generated by plot.py at 2017-09-01 01:08:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 103.27 Mbit/s

95th percentile per-packet one-way delay: 53.873 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 52.34 Mbit/s

95th percentile per-packet one-way delay: 53.836 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 55.89 Mbit/s

95th percentile per-packet one-way delay: 53.979 ms

Loss rate: 0.01%

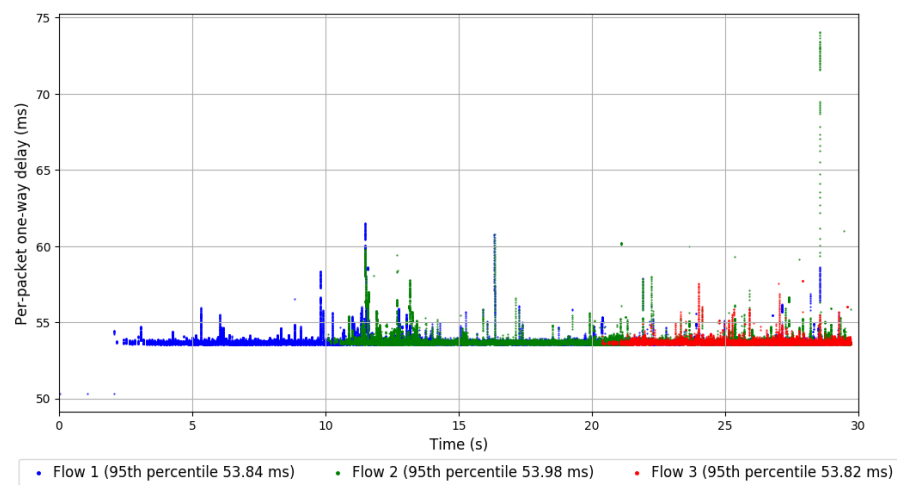
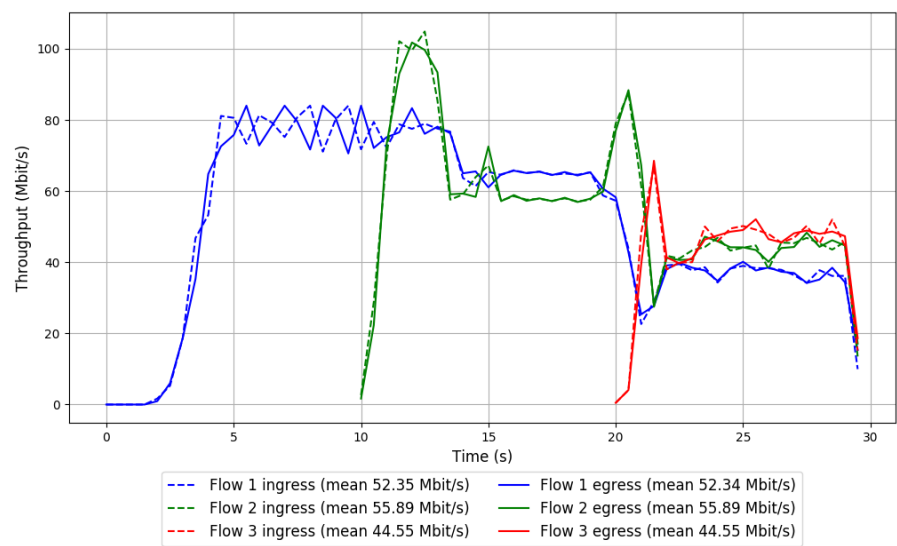
-- Flow 3:

Average throughput: 44.55 Mbit/s

95th percentile per-packet one-way delay: 53.823 ms

Loss rate: 0.00%

Run 10: Report of Indigo — Data Link

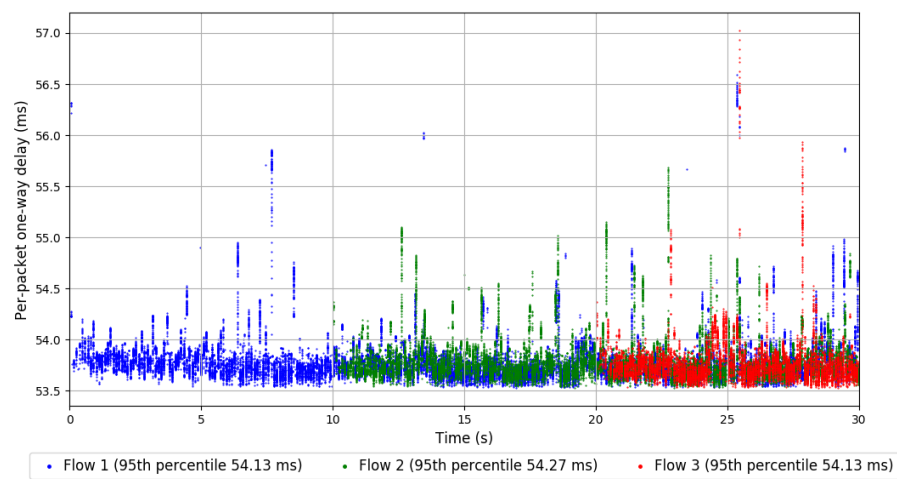
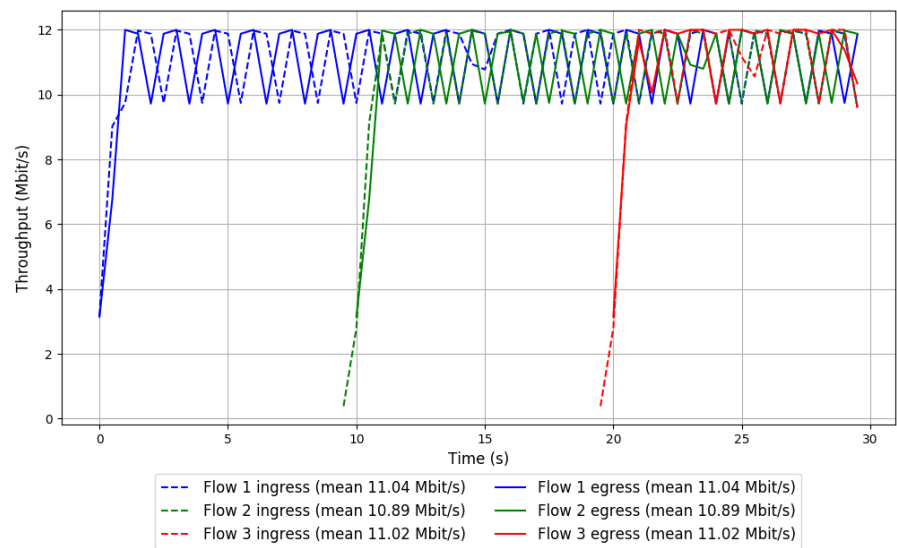


```
Run 1: Statistics of KohoCC

Start at: 2017-08-31 21:09:19
End at: 2017-08-31 21:09:49

# Below is generated by plot.py at 2017-09-01 01:08:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 21.95 Mbit/s
95th percentile per-packet one-way delay: 54.176 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 11.04 Mbit/s
95th percentile per-packet one-way delay: 54.127 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 10.89 Mbit/s
95th percentile per-packet one-way delay: 54.272 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 11.02 Mbit/s
95th percentile per-packet one-way delay: 54.126 ms
Loss rate: 0.00%
```

Run 1: Report of KohoCC — Data Link

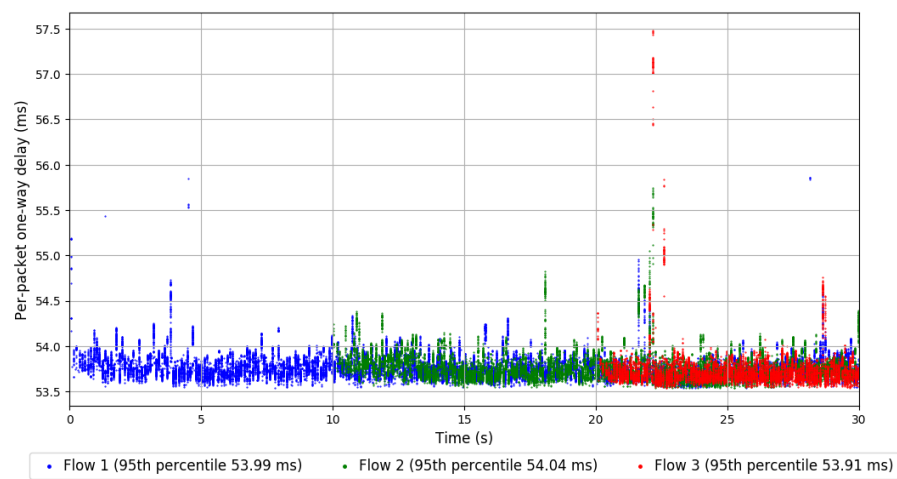
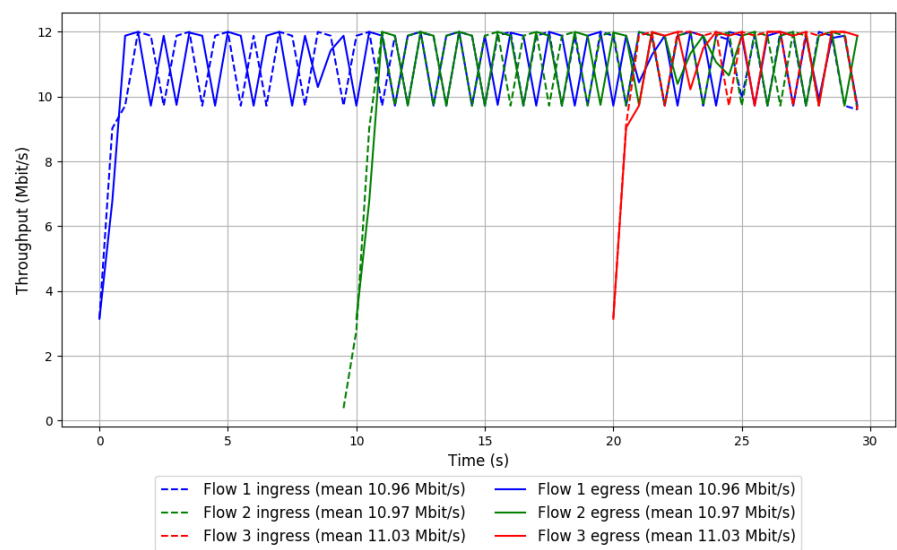


```
Run 2: Statistics of KohoCC

Start at: 2017-08-31 21:21:00
End at: 2017-08-31 21:21:30

# Below is generated by plot.py at 2017-09-01 01:08:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 21.92 Mbit/s
95th percentile per-packet one-way delay: 54.007 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 10.96 Mbit/s
95th percentile per-packet one-way delay: 53.994 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 10.97 Mbit/s
95th percentile per-packet one-way delay: 54.041 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 11.03 Mbit/s
95th percentile per-packet one-way delay: 53.907 ms
Loss rate: 0.00%
```

Run 2: Report of KohoCC — Data Link

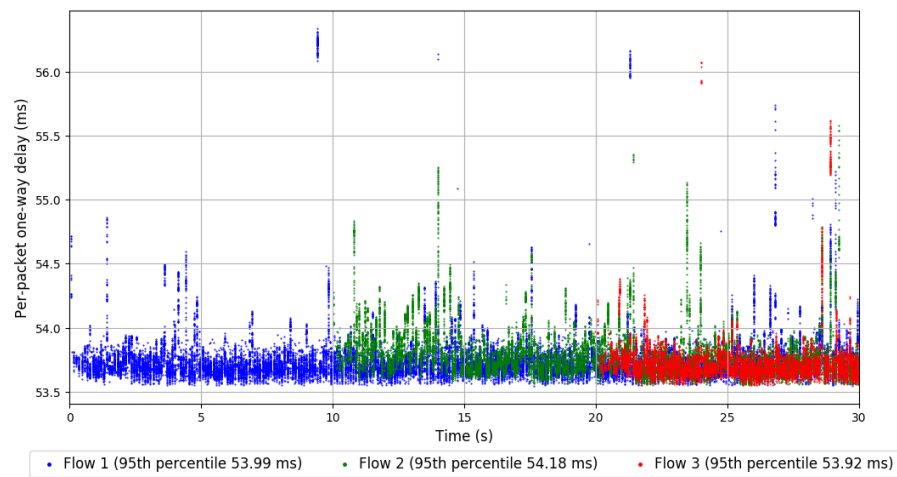
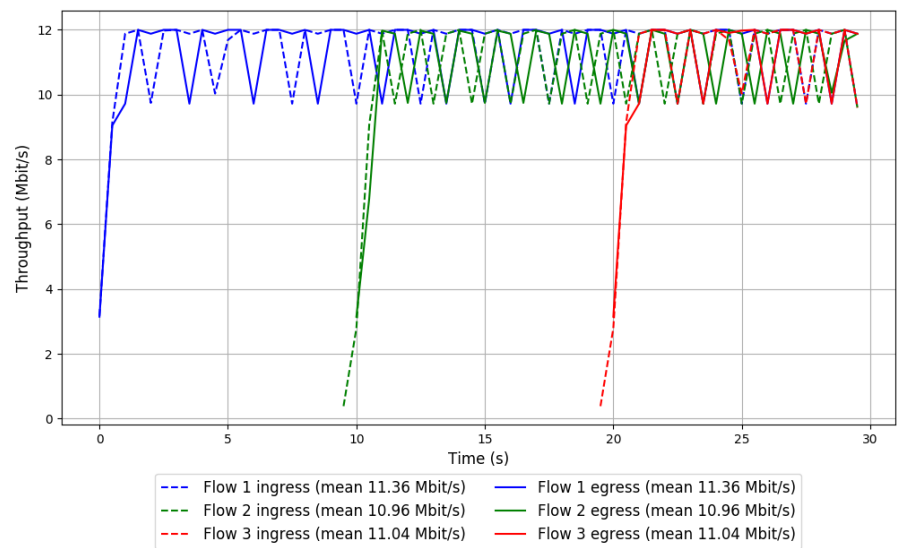


```
Run 3: Statistics of KohoCC

Start at: 2017-08-31 21:33:12
End at: 2017-08-31 21:33:42

# Below is generated by plot.py at 2017-09-01 01:08:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 22.31 Mbit/s
95th percentile per-packet one-way delay: 54.077 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 11.36 Mbit/s
95th percentile per-packet one-way delay: 53.990 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 10.96 Mbit/s
95th percentile per-packet one-way delay: 54.179 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 11.04 Mbit/s
95th percentile per-packet one-way delay: 53.918 ms
Loss rate: 0.00%
```


Run 3: Report of KohoCC — Data Link



Run 4: Statistics of KohoCC

Start at: 2017-08-31 21:45:11

End at: 2017-08-31 21:45:41

Below is generated by plot.py at 2017-09-01 01:08:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 22.41 Mbit/s

95th percentile per-packet one-way delay: 54.218 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 11.36 Mbit/s

95th percentile per-packet one-way delay: 54.210 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 11.27 Mbit/s

95th percentile per-packet one-way delay: 54.370 ms

Loss rate: 0.00%

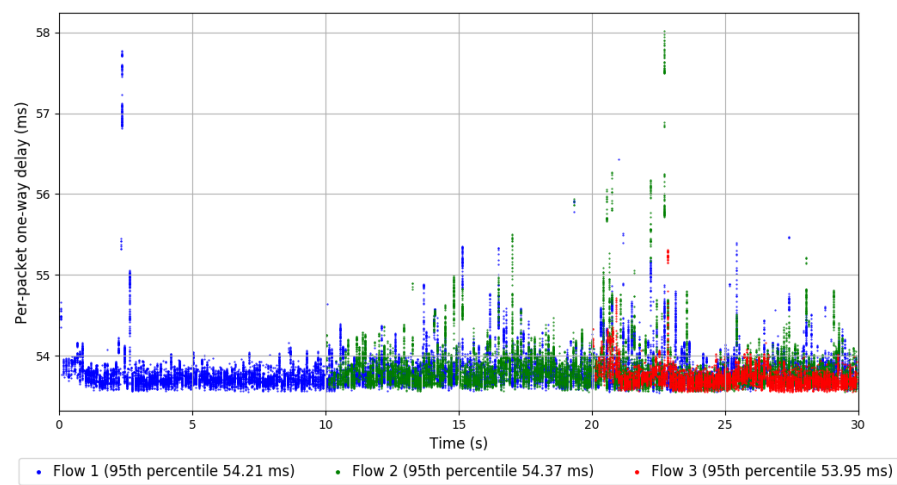
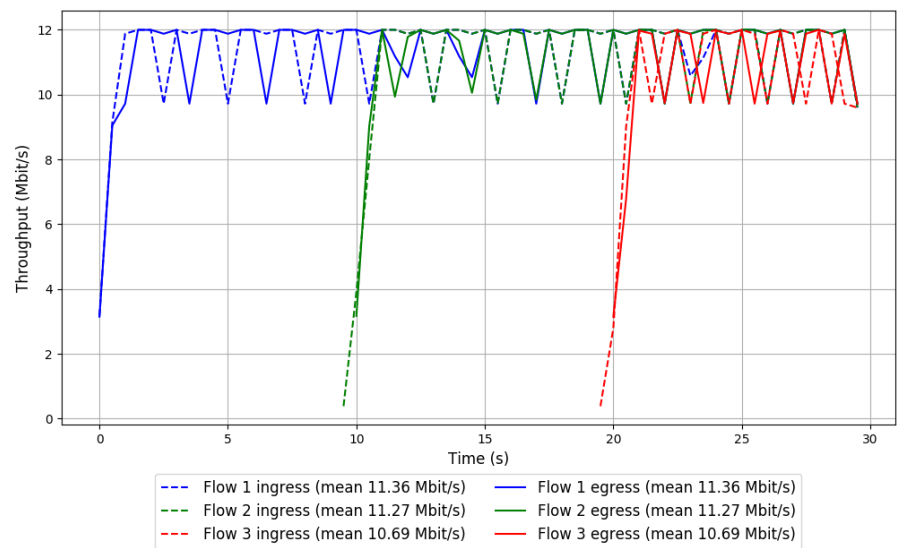
-- Flow 3:

Average throughput: 10.69 Mbit/s

95th percentile per-packet one-way delay: 53.953 ms

Loss rate: 0.00%

Run 4: Report of KohoCC — Data Link



Run 5: Statistics of KohoCC

Start at: 2017-08-31 21:57:04

End at: 2017-08-31 21:57:34

Below is generated by plot.py at 2017-09-01 01:08:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 21.81 Mbit/s

95th percentile per-packet one-way delay: 54.139 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 10.96 Mbit/s

95th percentile per-packet one-way delay: 54.150 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 10.98 Mbit/s

95th percentile per-packet one-way delay: 54.133 ms

Loss rate: 0.00%

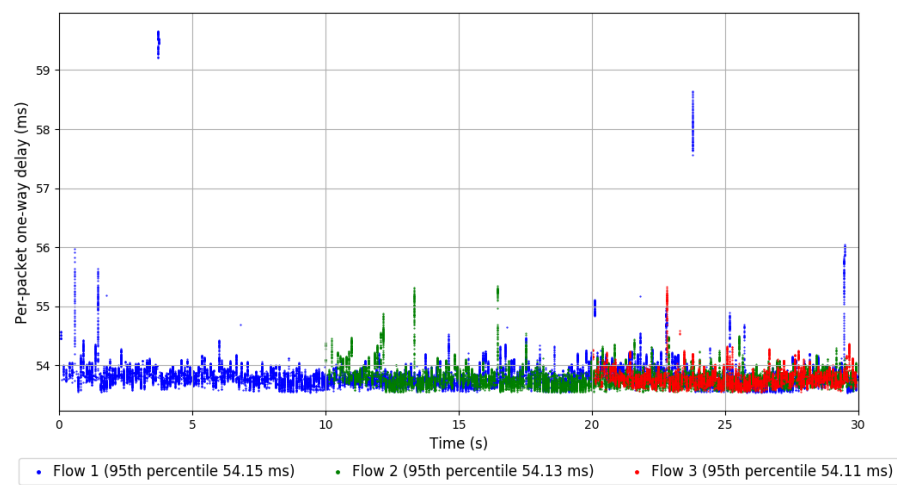
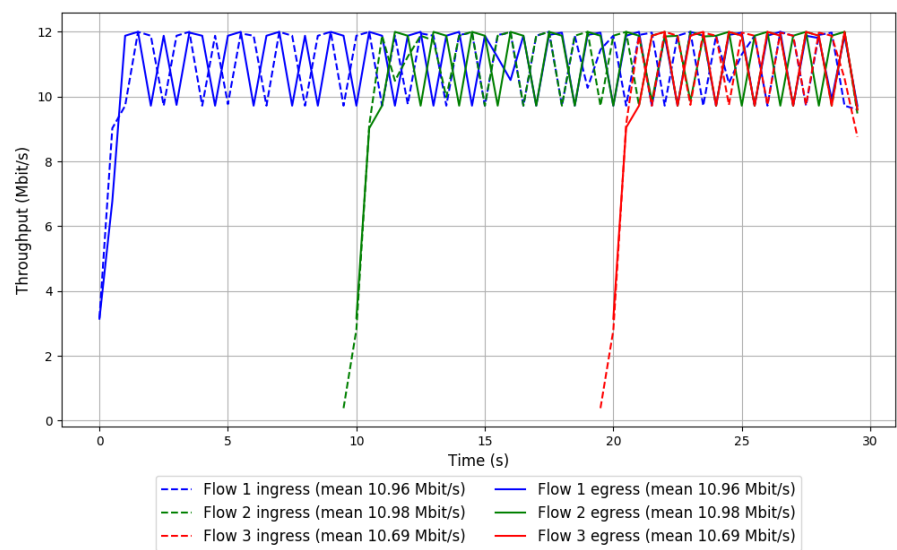
-- Flow 3:

Average throughput: 10.69 Mbit/s

95th percentile per-packet one-way delay: 54.113 ms

Loss rate: 0.00%

Run 5: Report of KohoCC — Data Link



Run 6: Statistics of KohoCC

Start at: 2017-08-31 22:08:49

End at: 2017-08-31 22:09:19

Below is generated by plot.py at 2017-09-01 01:08:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 22.04 Mbit/s

95th percentile per-packet one-way delay: 54.145 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 11.04 Mbit/s

95th percentile per-packet one-way delay: 54.188 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 11.20 Mbit/s

95th percentile per-packet one-way delay: 54.081 ms

Loss rate: 0.00%

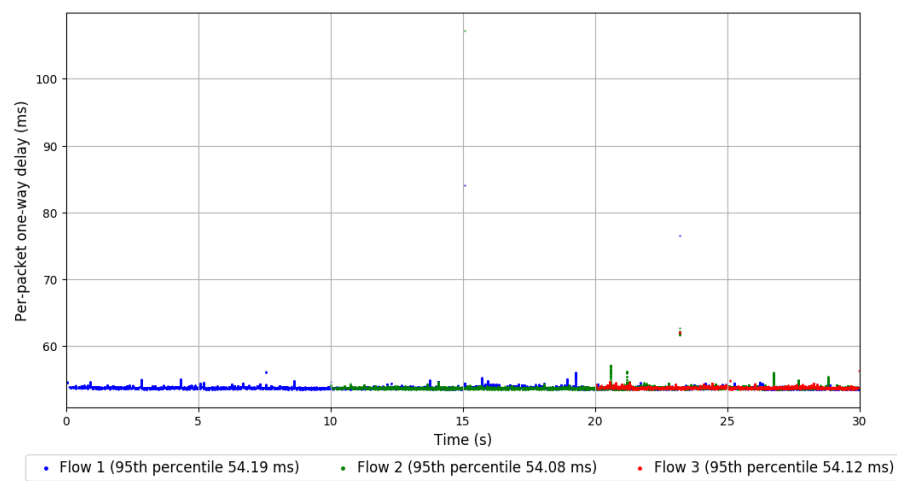
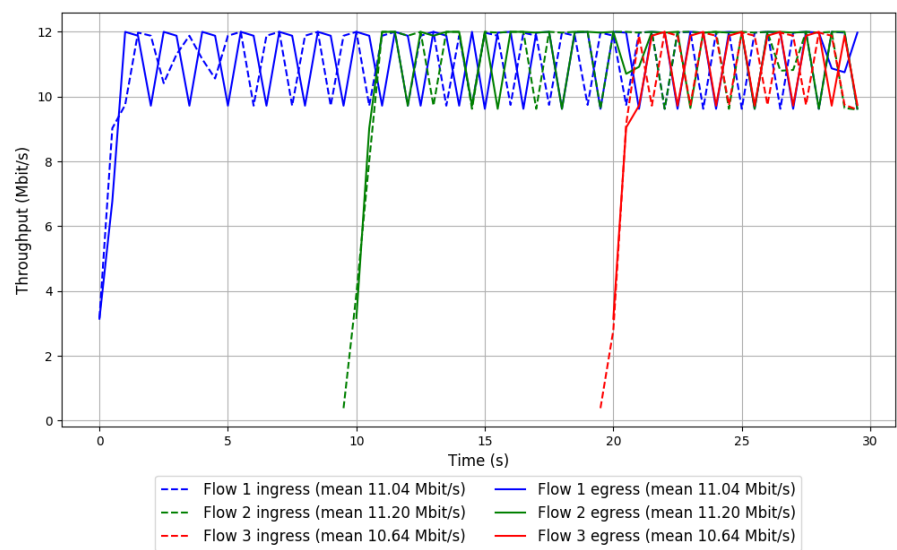
-- Flow 3:

Average throughput: 10.64 Mbit/s

95th percentile per-packet one-way delay: 54.115 ms

Loss rate: 0.00%

Run 6: Report of KohoCC — Data Link

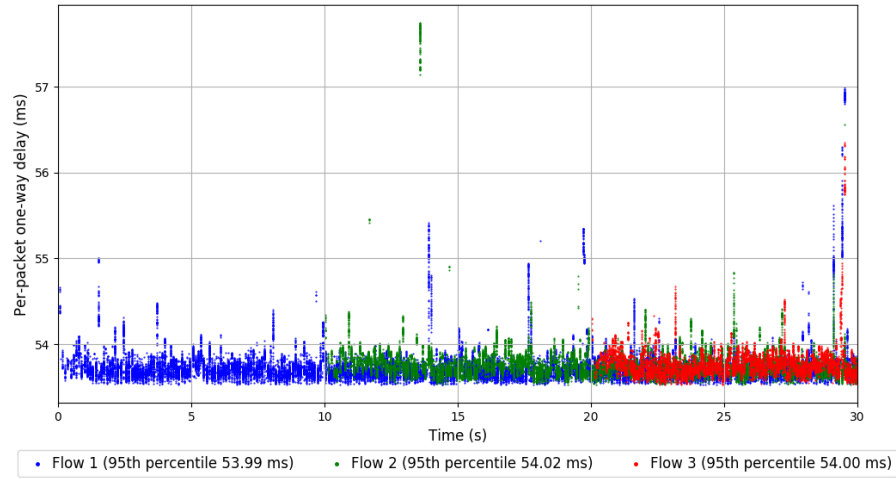
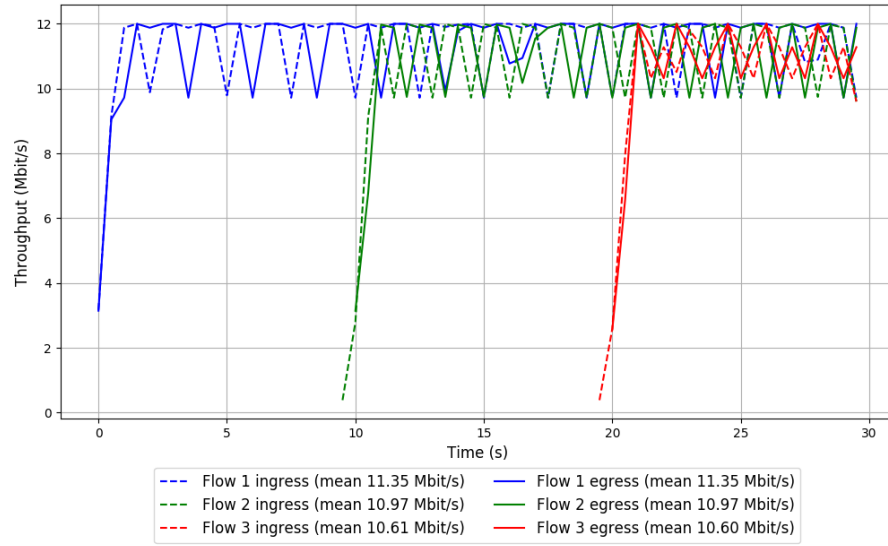


```
Run 7: Statistics of KohoCC

Start at: 2017-08-31 22:21:06
End at: 2017-08-31 22:21:36

# Below is generated by plot.py at 2017-09-01 01:08:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 22.16 Mbit/s
95th percentile per-packet one-way delay: 54.005 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 11.35 Mbit/s
95th percentile per-packet one-way delay: 53.987 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 10.97 Mbit/s
95th percentile per-packet one-way delay: 54.019 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 10.60 Mbit/s
95th percentile per-packet one-way delay: 54.004 ms
Loss rate: 0.06%
```


Run 7: Report of KohoCC — Data Link



Run 8: Statistics of KohoCC

Start at: 2017-08-31 22:32:54

End at: 2017-08-31 22:33:24

Below is generated by plot.py at 2017-09-01 01:08:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 22.08 Mbit/s

95th percentile per-packet one-way delay: 54.070 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 10.96 Mbit/s

95th percentile per-packet one-way delay: 54.069 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 11.27 Mbit/s

95th percentile per-packet one-way delay: 54.089 ms

Loss rate: 0.00%

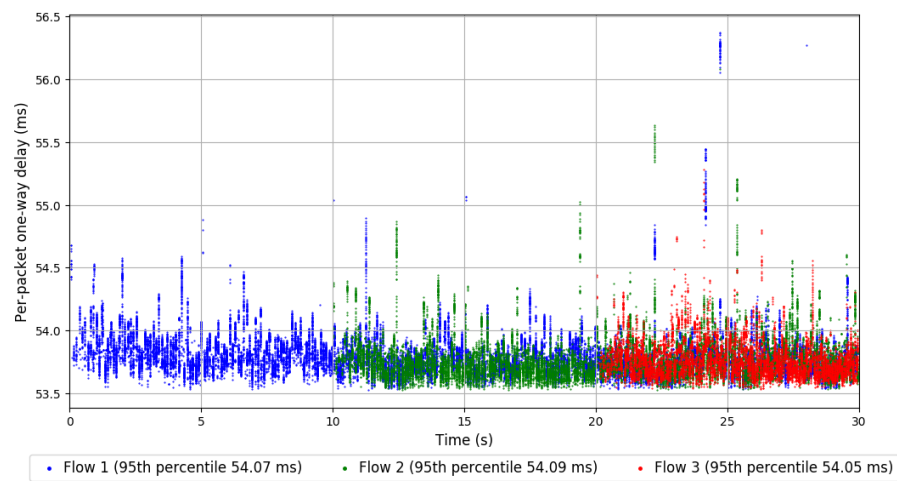
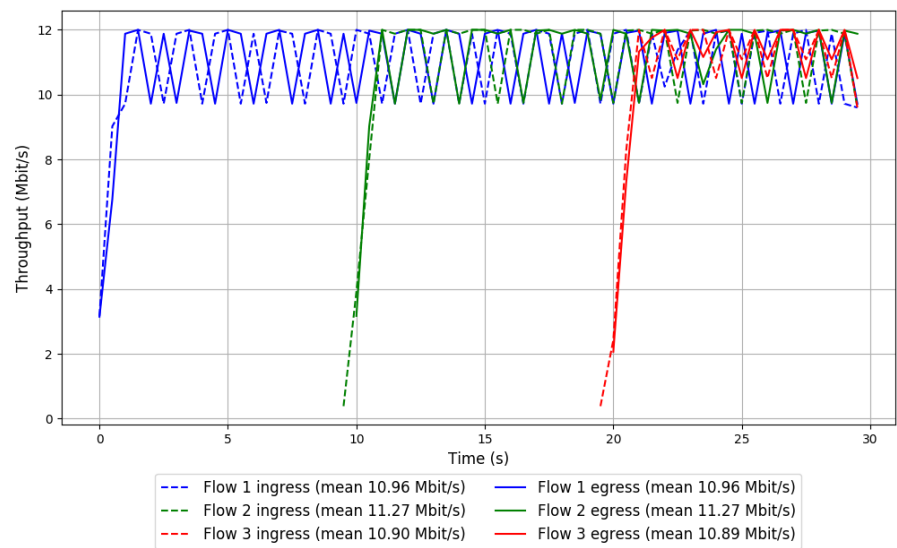
-- Flow 3:

Average throughput: 10.89 Mbit/s

95th percentile per-packet one-way delay: 54.053 ms

Loss rate: 0.11%

Run 8: Report of KohoCC — Data Link

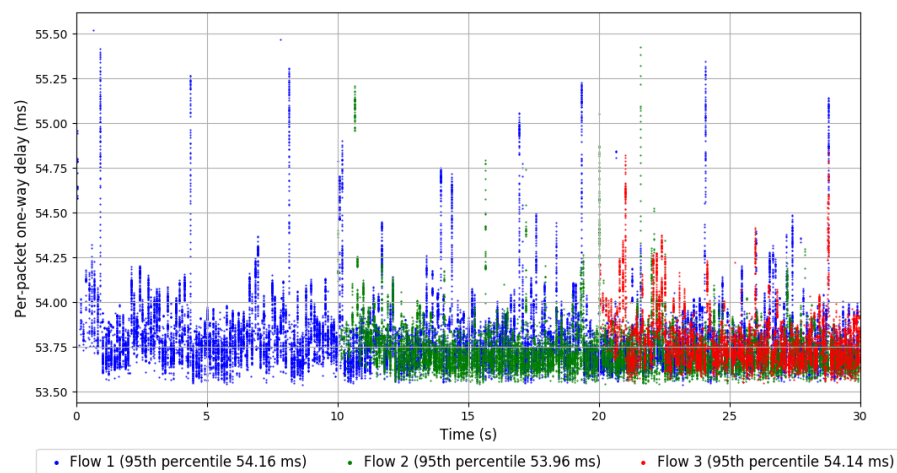
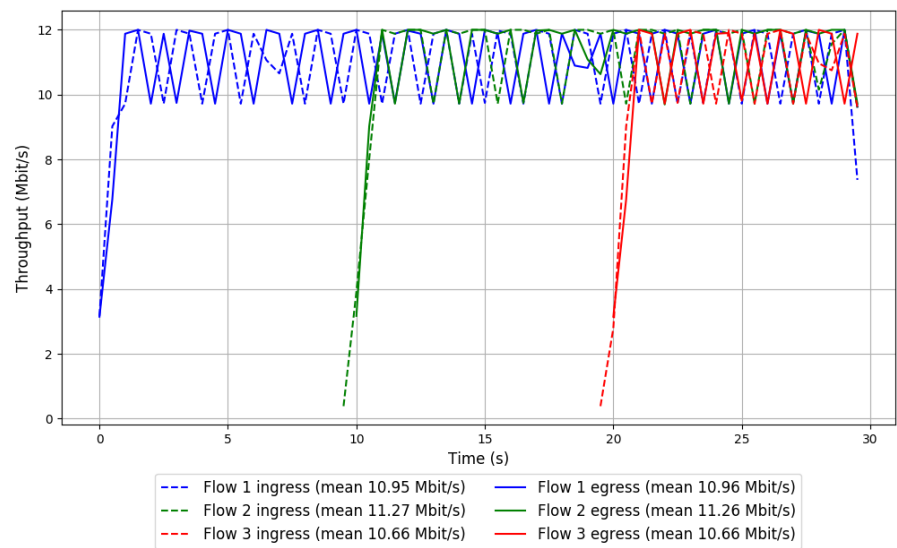


```
Run 9: Statistics of KohoCC

Start at: 2017-08-31 22:44:42
End at: 2017-08-31 22:45:12

# Below is generated by plot.py at 2017-09-01 01:08:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 21.99 Mbit/s
95th percentile per-packet one-way delay: 54.094 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 10.96 Mbit/s
95th percentile per-packet one-way delay: 54.163 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 11.26 Mbit/s
95th percentile per-packet one-way delay: 53.958 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 10.66 Mbit/s
95th percentile per-packet one-way delay: 54.139 ms
Loss rate: 0.00%
```

Run 9: Report of KohoCC — Data Link

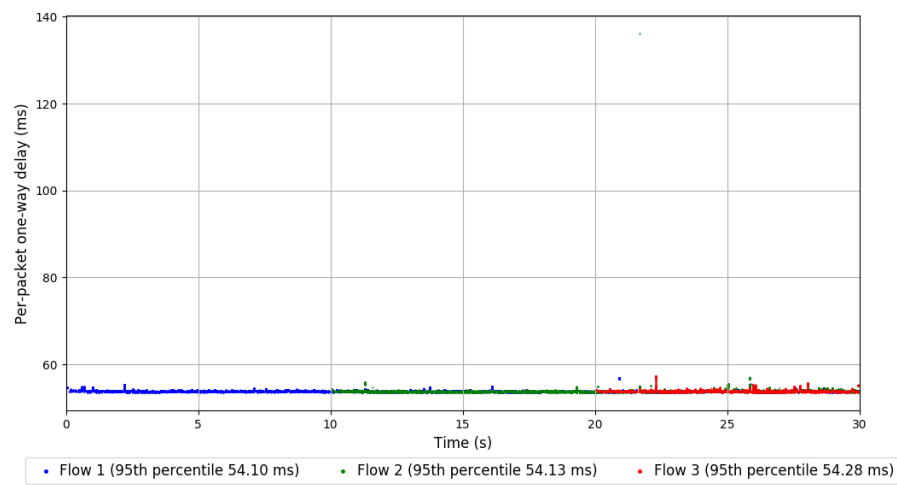
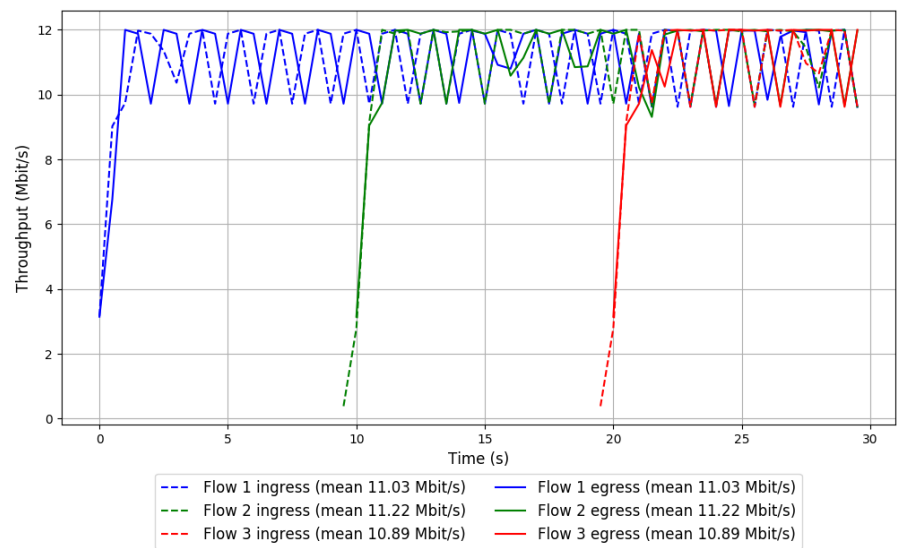


```
Run 10: Statistics of KohoCC

Start at: 2017-08-31 22:56:54
End at: 2017-08-31 22:57:24

# Below is generated by plot.py at 2017-09-01 01:08:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 22.11 Mbit/s
95th percentile per-packet one-way delay: 54.145 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 11.03 Mbit/s
95th percentile per-packet one-way delay: 54.098 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 11.22 Mbit/s
95th percentile per-packet one-way delay: 54.134 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 10.89 Mbit/s
95th percentile per-packet one-way delay: 54.279 ms
Loss rate: 0.00%
```

Run 10: Report of KohoCC — Data Link

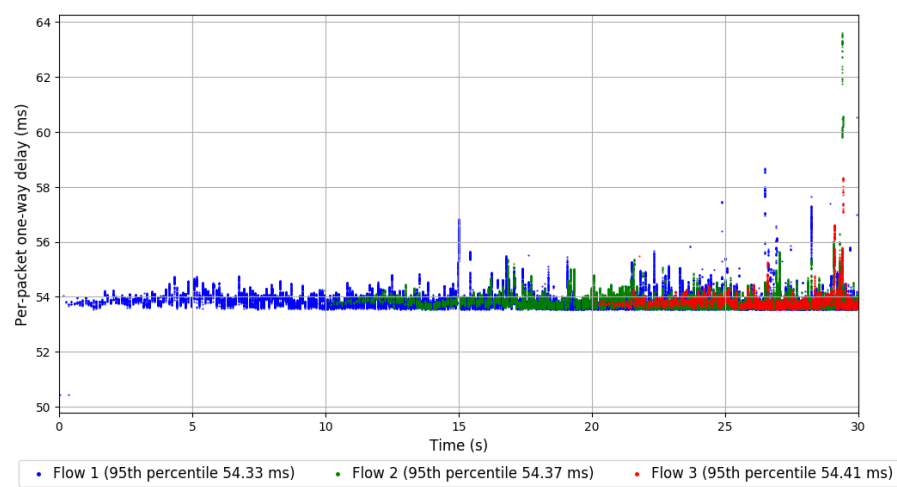
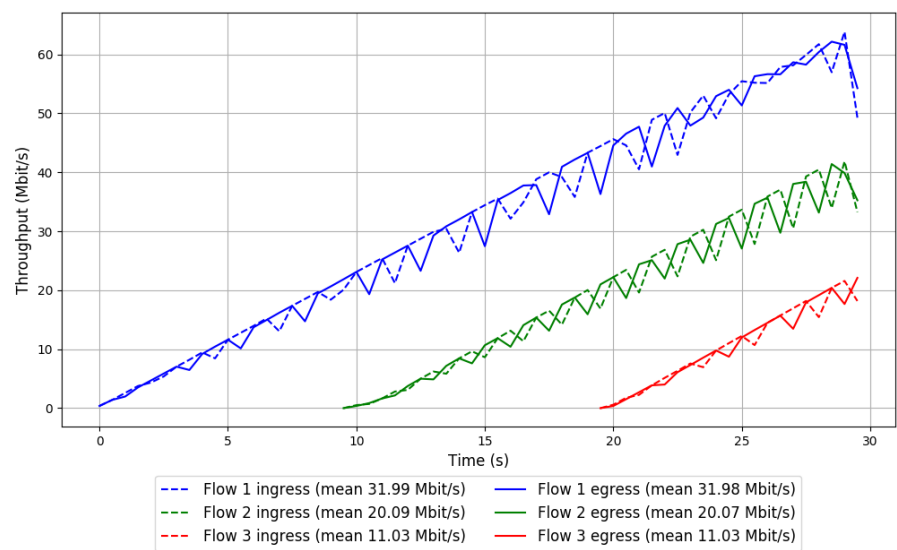


```
Run 1: Statistics of LEDBAT

Start at: 2017-08-31 21:00:15
End at: 2017-08-31 21:00:45

# Below is generated by plot.py at 2017-09-01 01:08:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 49.04 Mbit/s
95th percentile per-packet one-way delay: 54.348 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 31.98 Mbit/s
95th percentile per-packet one-way delay: 54.331 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 20.07 Mbit/s
95th percentile per-packet one-way delay: 54.373 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 11.03 Mbit/s
95th percentile per-packet one-way delay: 54.415 ms
Loss rate: 0.00%
```


Run 1: Report of LEDBAT — Data Link

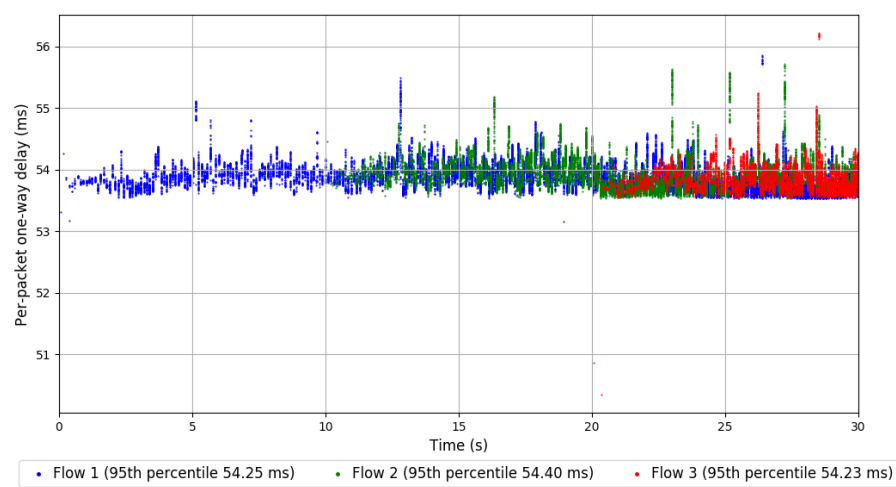
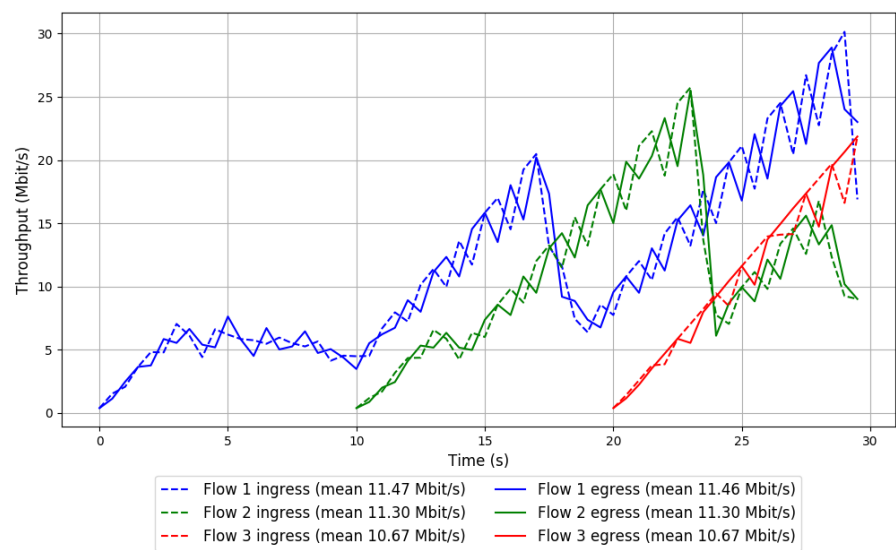


```
Run 2: Statistics of LEDBAT

Start at: 2017-08-31 21:12:20
End at: 2017-08-31 21:12:50

# Below is generated by plot.py at 2017-09-01 01:08:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 22.49 Mbit/s
95th percentile per-packet one-way delay: 54.300 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 11.46 Mbit/s
95th percentile per-packet one-way delay: 54.254 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 11.30 Mbit/s
95th percentile per-packet one-way delay: 54.403 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 10.67 Mbit/s
95th percentile per-packet one-way delay: 54.230 ms
Loss rate: 0.00%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2017-08-31 21:24:01

End at: 2017-08-31 21:24:31

Below is generated by plot.py at 2017-09-01 01:08:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 28.16 Mbit/s

95th percentile per-packet one-way delay: 54.313 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 16.76 Mbit/s

95th percentile per-packet one-way delay: 54.378 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 11.85 Mbit/s

95th percentile per-packet one-way delay: 54.094 ms

Loss rate: 0.01%

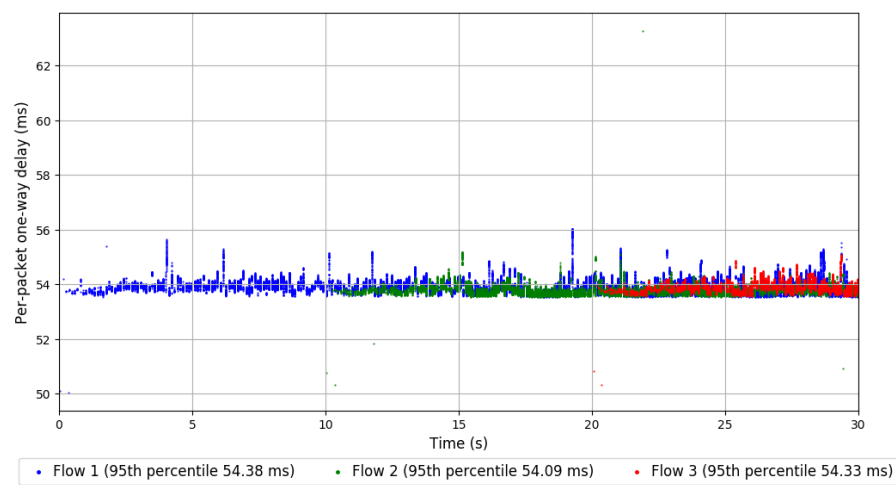
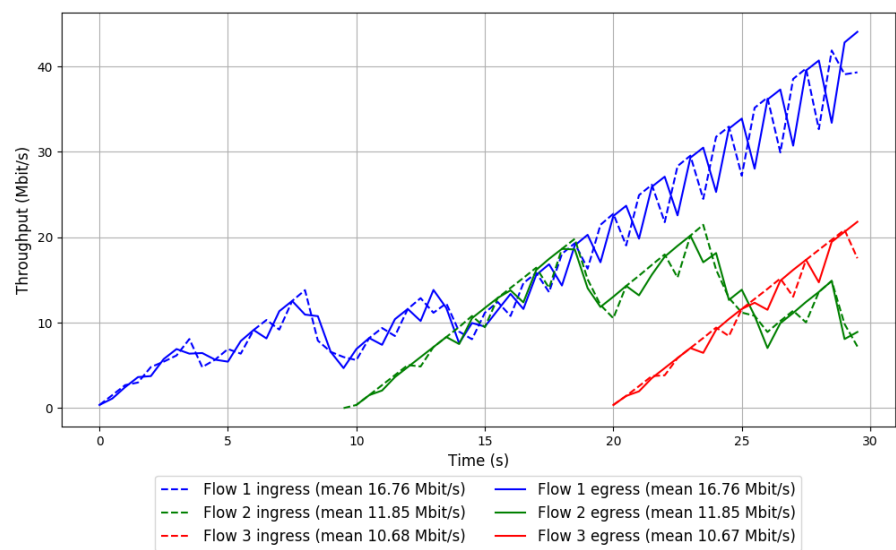
-- Flow 3:

Average throughput: 10.67 Mbit/s

95th percentile per-packet one-way delay: 54.334 ms

Loss rate: 0.00%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2017-08-31 21:36:13

End at: 2017-08-31 21:36:43

Below is generated by plot.py at 2017-09-01 01:08:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 25.83 Mbit/s

95th percentile per-packet one-way delay: 54.383 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 11.29 Mbit/s

95th percentile per-packet one-way delay: 54.409 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 17.80 Mbit/s

95th percentile per-packet one-way delay: 54.331 ms

Loss rate: 0.01%

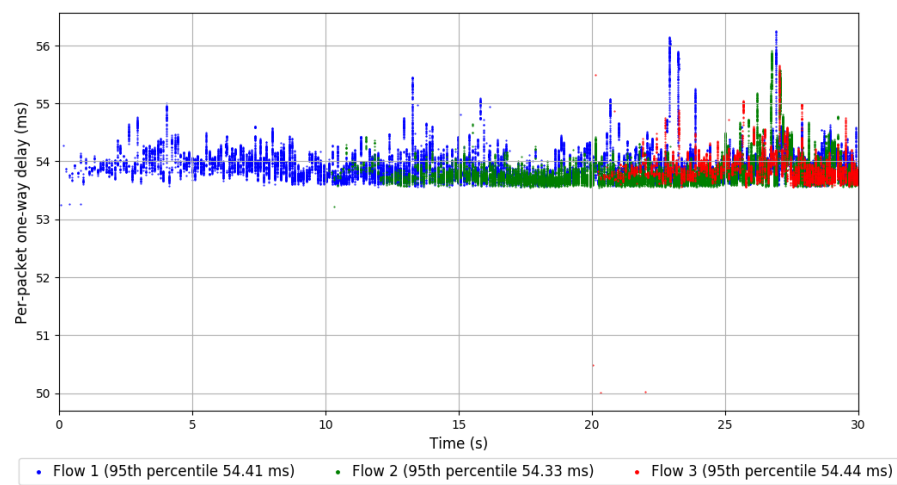
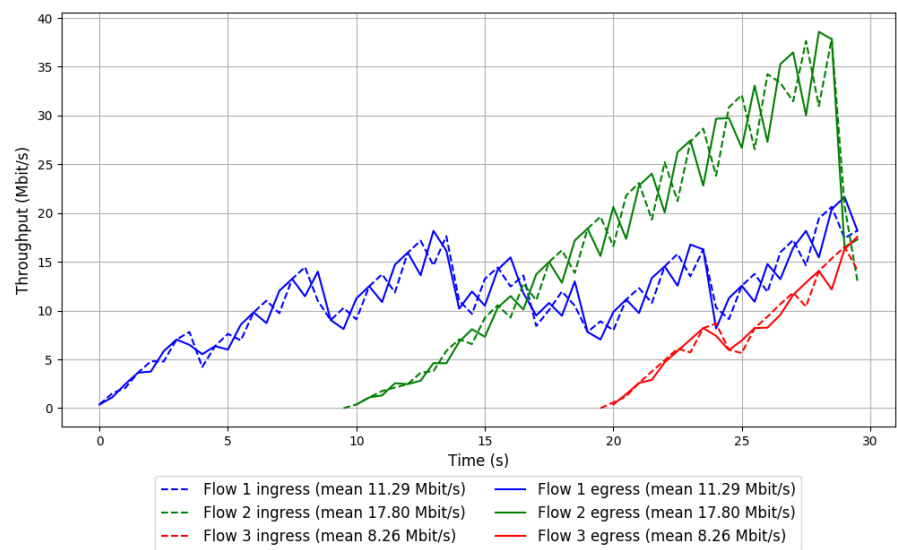
-- Flow 3:

Average throughput: 8.26 Mbit/s

95th percentile per-packet one-way delay: 54.437 ms

Loss rate: 0.00%

Run 4: Report of LEDBAT — Data Link

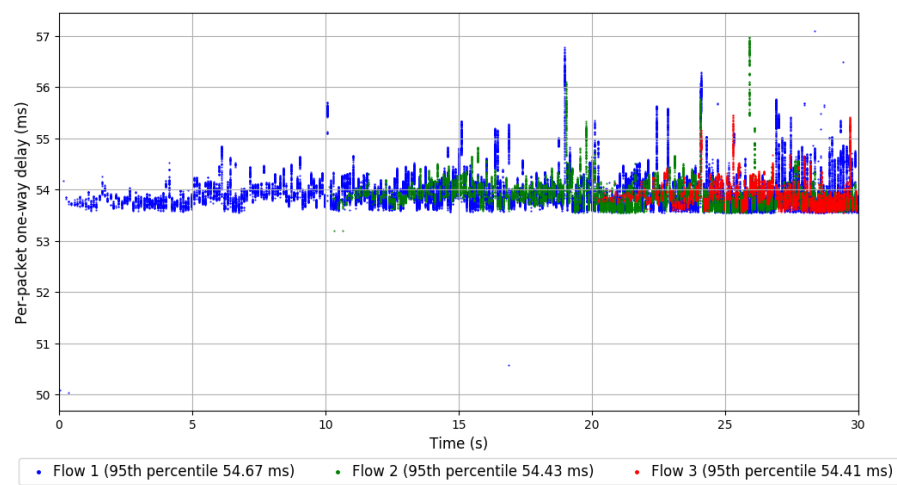
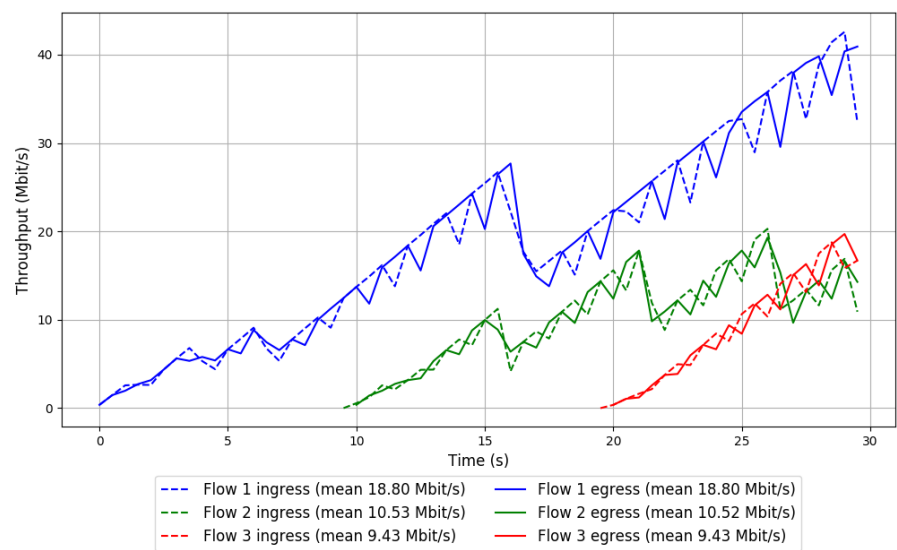


```
Run 5: Statistics of LEDBAT

Start at: 2017-08-31 21:48:12
End at: 2017-08-31 21:48:42

# Below is generated by plot.py at 2017-09-01 01:08:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 28.93 Mbit/s
95th percentile per-packet one-way delay: 54.591 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 18.80 Mbit/s
95th percentile per-packet one-way delay: 54.668 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 10.52 Mbit/s
95th percentile per-packet one-way delay: 54.430 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 9.43 Mbit/s
95th percentile per-packet one-way delay: 54.411 ms
Loss rate: 0.00%
```


Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2017-08-31 22:00:05

End at: 2017-08-31 22:00:35

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 46.77 Mbit/s

95th percentile per-packet one-way delay: 54.296 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 29.94 Mbit/s

95th percentile per-packet one-way delay: 54.181 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 20.17 Mbit/s

95th percentile per-packet one-way delay: 54.408 ms

Loss rate: 0.00%

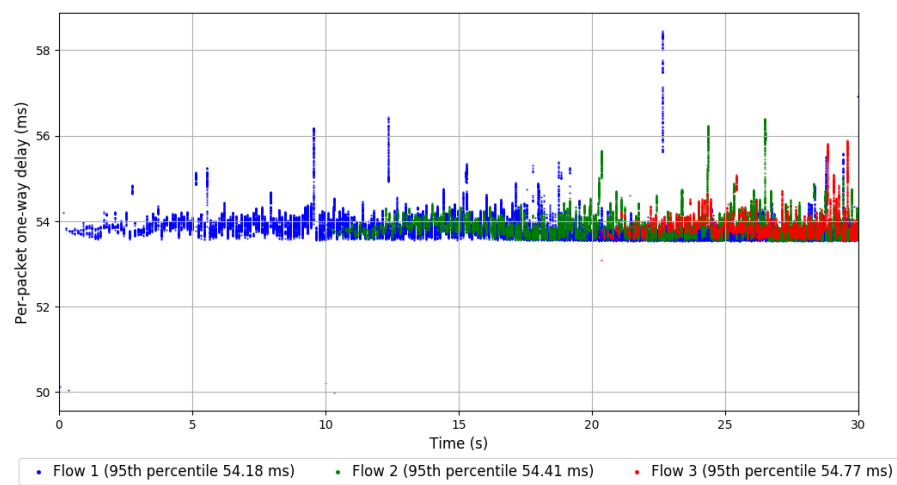
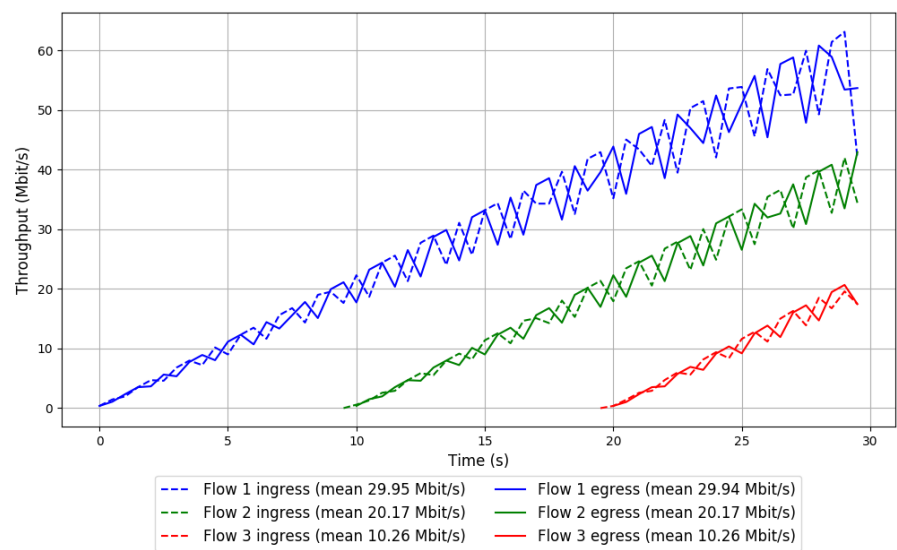
-- Flow 3:

Average throughput: 10.26 Mbit/s

95th percentile per-packet one-way delay: 54.768 ms

Loss rate: 0.00%

Run 6: Report of LEDBAT — Data Link

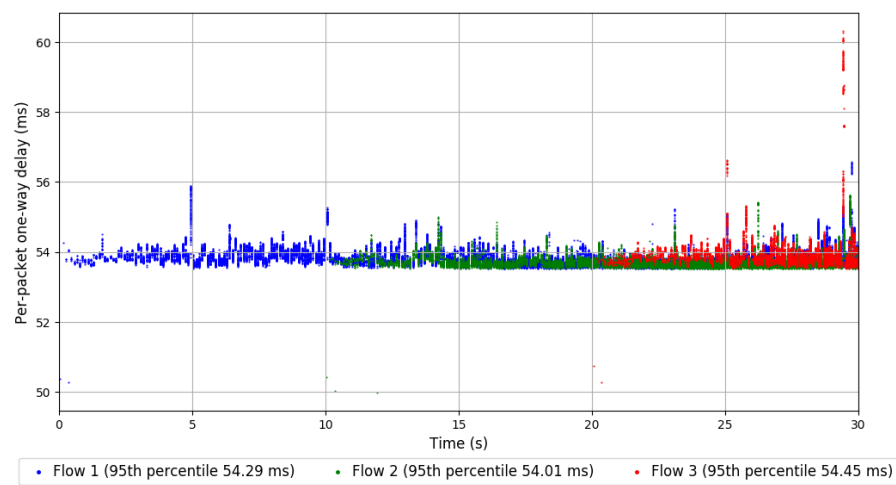
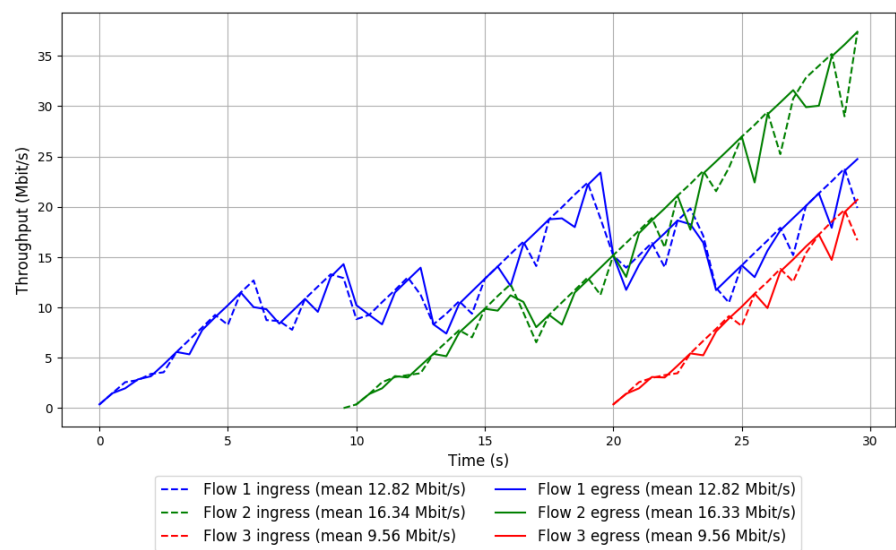


```
Run 7: Statistics of LEDBAT

Start at: 2017-08-31 22:11:49
End at: 2017-08-31 22:12:19

# Below is generated by plot.py at 2017-09-01 01:09:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 26.85 Mbit/s
95th percentile per-packet one-way delay: 54.244 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 12.82 Mbit/s
95th percentile per-packet one-way delay: 54.286 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 16.33 Mbit/s
95th percentile per-packet one-way delay: 54.007 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 9.56 Mbit/s
95th percentile per-packet one-way delay: 54.446 ms
Loss rate: 0.00%
```

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2017-08-31 22:24:08

End at: 2017-08-31 22:24:38

Below is generated by plot.py at 2017-09-01 01:09:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 31.15 Mbit/s

95th percentile per-packet one-way delay: 54.453 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 20.16 Mbit/s

95th percentile per-packet one-way delay: 54.482 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 12.92 Mbit/s

95th percentile per-packet one-way delay: 54.441 ms

Loss rate: 0.00%

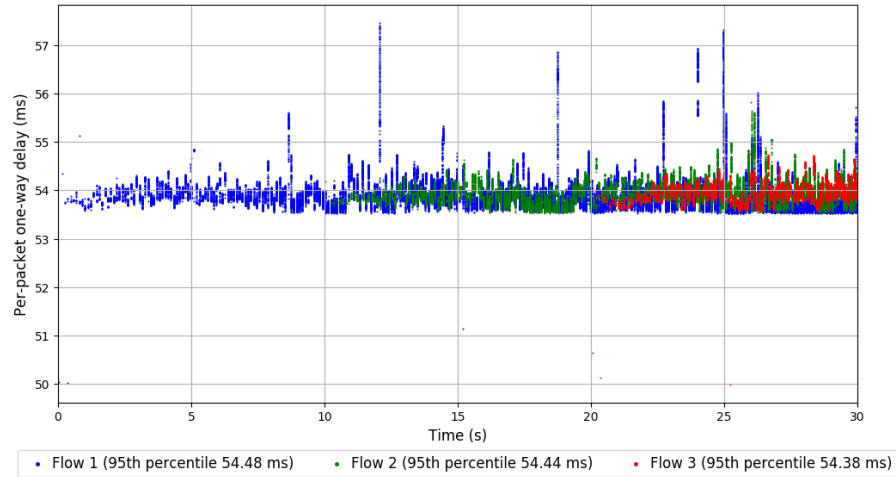
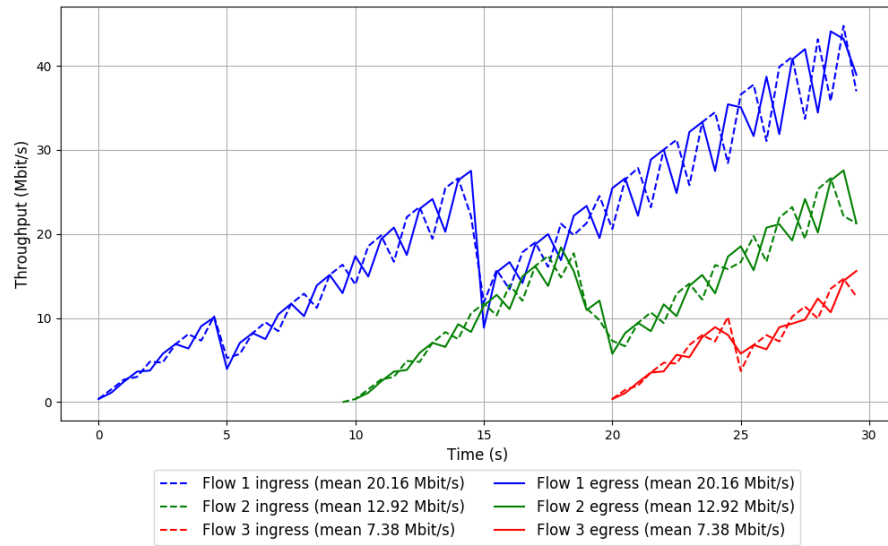
-- Flow 3:

Average throughput: 7.38 Mbit/s

95th percentile per-packet one-way delay: 54.377 ms

Loss rate: 0.03%

Run 8: Report of LEDBAT — Data Link

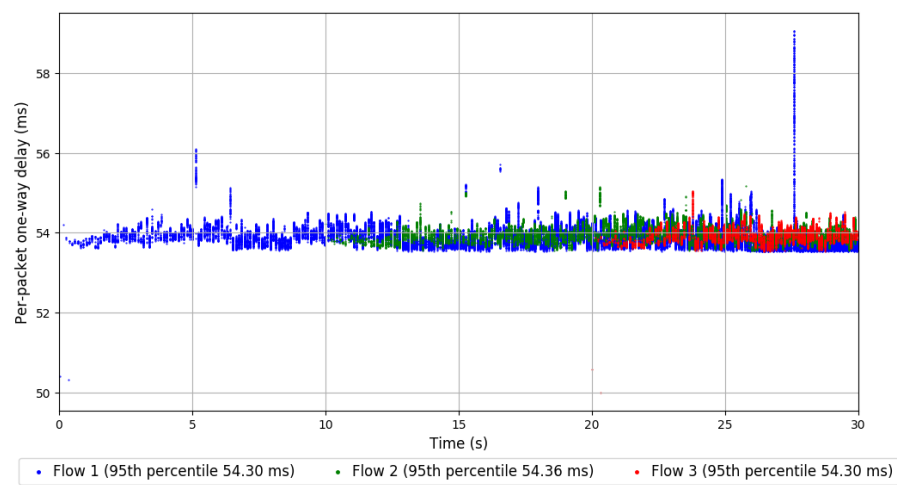
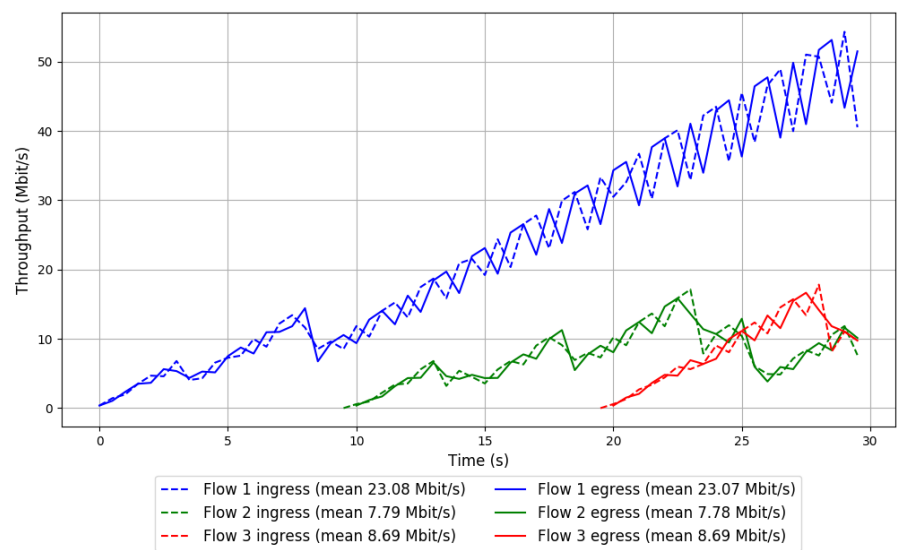


```
Run 9: Statistics of LEDBAT

Start at: 2017-08-31 22:35:56
End at: 2017-08-31 22:36:26

# Below is generated by plot.py at 2017-09-01 01:09:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 31.12 Mbit/s
95th percentile per-packet one-way delay: 54.317 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 23.07 Mbit/s
95th percentile per-packet one-way delay: 54.304 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 7.78 Mbit/s
95th percentile per-packet one-way delay: 54.356 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 8.69 Mbit/s
95th percentile per-packet one-way delay: 54.298 ms
Loss rate: 0.00%
```


Run 9: Report of LEDBAT — Data Link

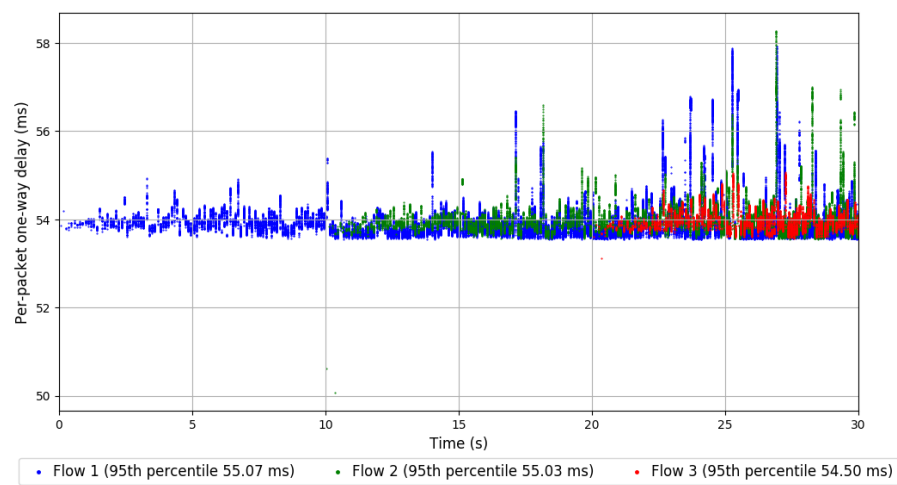
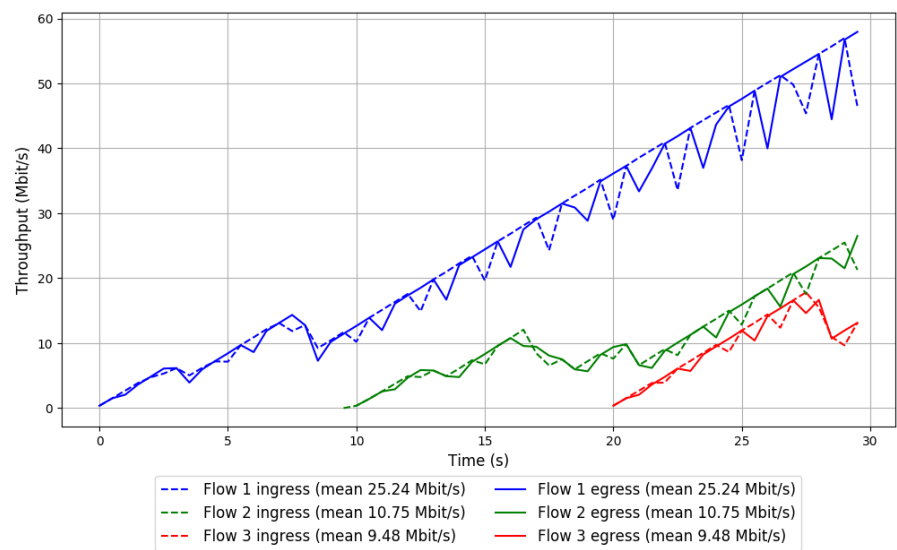


```
Run 10: Statistics of LEDBAT

Start at: 2017-08-31 22:47:42
End at: 2017-08-31 22:48:12

# Below is generated by plot.py at 2017-09-01 01:09:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 35.52 Mbit/s
95th percentile per-packet one-way delay: 54.954 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 25.24 Mbit/s
95th percentile per-packet one-way delay: 55.072 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 10.75 Mbit/s
95th percentile per-packet one-way delay: 55.034 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 9.48 Mbit/s
95th percentile per-packet one-way delay: 54.502 ms
Loss rate: 0.00%
```

Run 10: Report of LEDBAT — Data Link

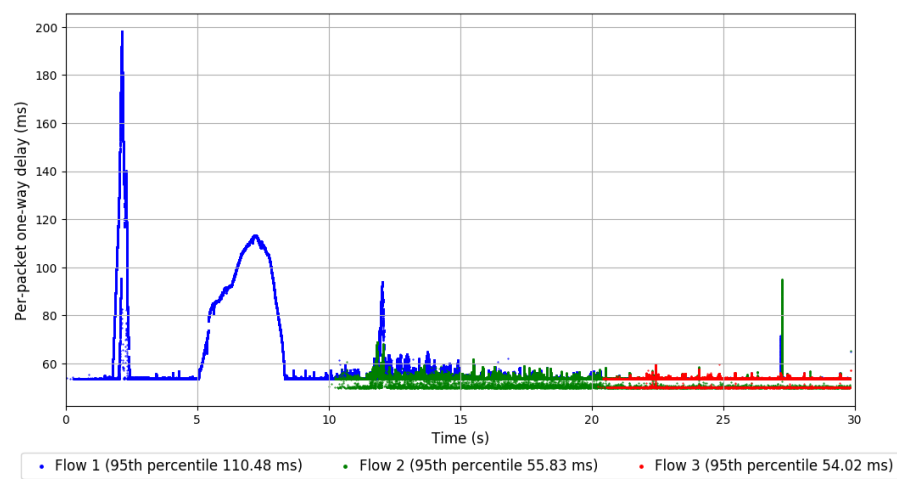
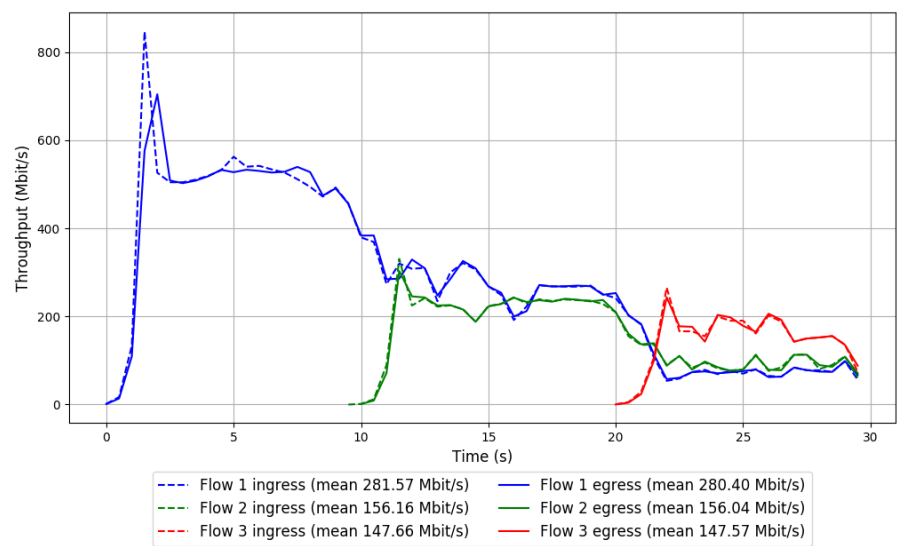


```
Run 1: Statistics of PCC

Start at: 2017-08-31 21:01:52
End at: 2017-08-31 21:02:22

# Below is generated by plot.py at 2017-09-01 01:10:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 431.86 Mbit/s
95th percentile per-packet one-way delay: 107.569 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 280.40 Mbit/s
95th percentile per-packet one-way delay: 110.482 ms
Loss rate: 0.39%
-- Flow 2:
Average throughput: 156.04 Mbit/s
95th percentile per-packet one-way delay: 55.827 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 147.57 Mbit/s
95th percentile per-packet one-way delay: 54.016 ms
Loss rate: 0.04%
```

Run 1: Report of PCC — Data Link

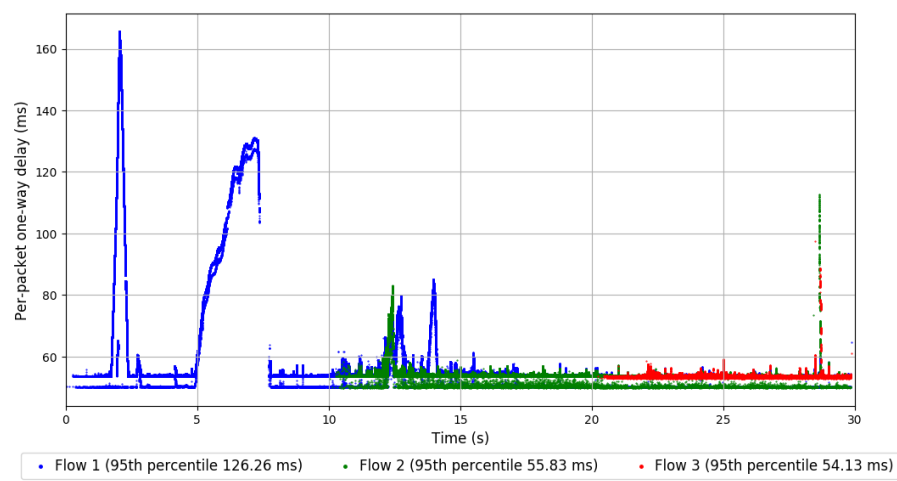
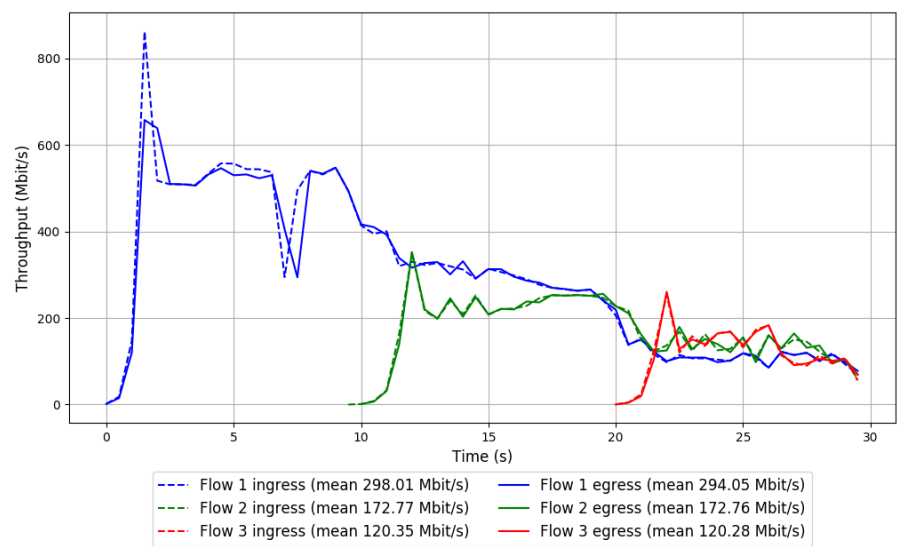


```
Run 2: Statistics of PCC

Start at: 2017-08-31 21:13:43
End at: 2017-08-31 21:14:13

# Below is generated by plot.py at 2017-09-01 01:10:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 447.63 Mbit/s
95th percentile per-packet one-way delay: 119.104 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 294.05 Mbit/s
95th percentile per-packet one-way delay: 126.261 ms
Loss rate: 1.28%
-- Flow 2:
Average throughput: 172.76 Mbit/s
95th percentile per-packet one-way delay: 55.828 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 120.28 Mbit/s
95th percentile per-packet one-way delay: 54.135 ms
Loss rate: 0.01%
```

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2017-08-31 21:25:36

End at: 2017-08-31 21:26:06

Below is generated by plot.py at 2017-09-01 01:12:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 459.19 Mbit/s

95th percentile per-packet one-way delay: 98.077 ms

Loss rate: 0.19%

-- Flow 1:

Average throughput: 291.62 Mbit/s

95th percentile per-packet one-way delay: 105.130 ms

Loss rate: 0.30%

-- Flow 2:

Average throughput: 190.76 Mbit/s

95th percentile per-packet one-way delay: 57.096 ms

Loss rate: 0.00%

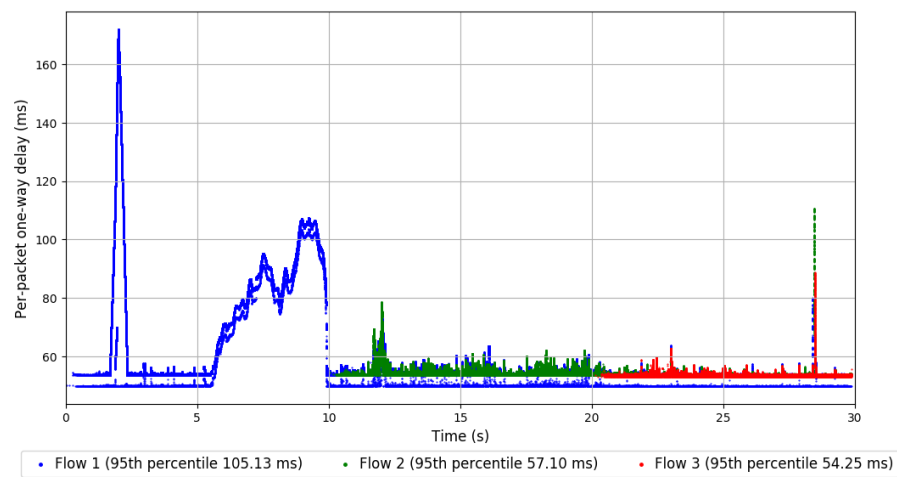
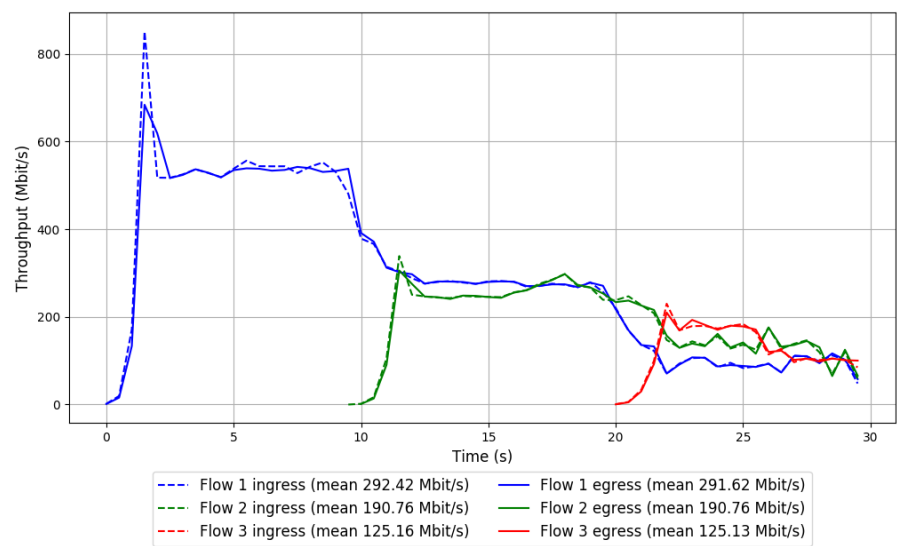
-- Flow 3:

Average throughput: 125.13 Mbit/s

95th percentile per-packet one-way delay: 54.252 ms

Loss rate: 0.01%

Run 3: Report of PCC — Data Link

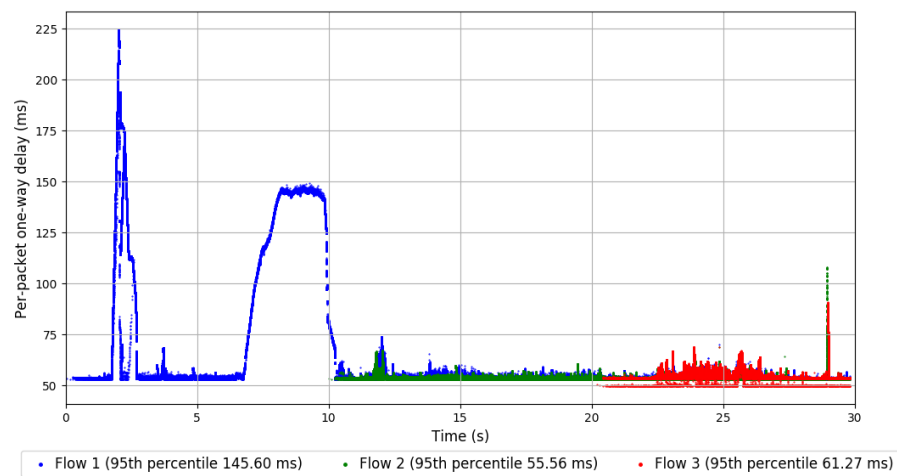
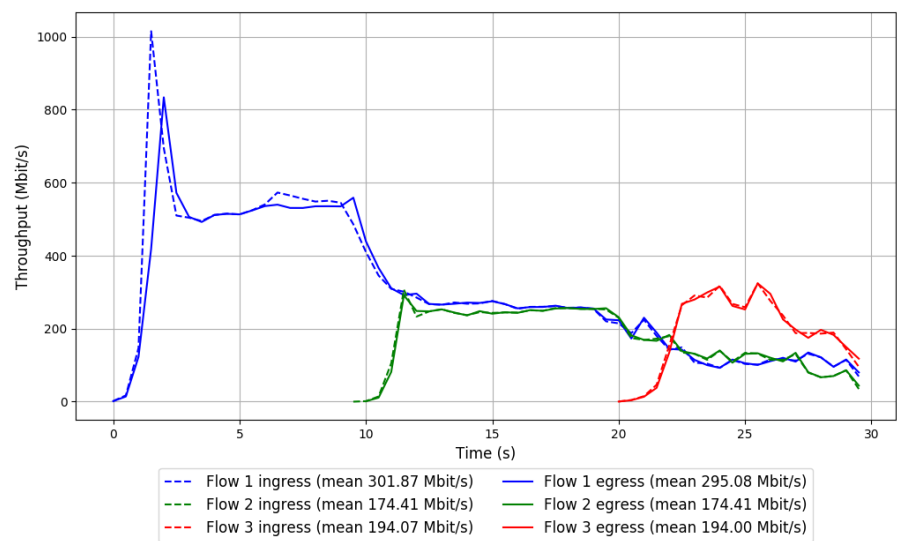


```
Run 4: Statistics of PCC

Start at: 2017-08-31 21:37:37
End at: 2017-08-31 21:38:07

# Below is generated by plot.py at 2017-09-01 01:12:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 473.78 Mbit/s
95th percentile per-packet one-way delay: 145.077 ms
Loss rate: 1.41%
-- Flow 1:
Average throughput: 295.08 Mbit/s
95th percentile per-packet one-way delay: 145.600 ms
Loss rate: 2.25%
-- Flow 2:
Average throughput: 174.41 Mbit/s
95th percentile per-packet one-way delay: 55.558 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 194.00 Mbit/s
95th percentile per-packet one-way delay: 61.274 ms
Loss rate: 0.00%
```

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2017-08-31 21:49:36

End at: 2017-08-31 21:50:06

Below is generated by plot.py at 2017-09-01 01:13:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 468.41 Mbit/s

95th percentile per-packet one-way delay: 75.739 ms

Loss rate: 0.19%

-- Flow 1:

Average throughput: 270.93 Mbit/s

95th percentile per-packet one-way delay: 81.391 ms

Loss rate: 0.32%

-- Flow 2:

Average throughput: 203.69 Mbit/s

95th percentile per-packet one-way delay: 64.233 ms

Loss rate: 0.00%

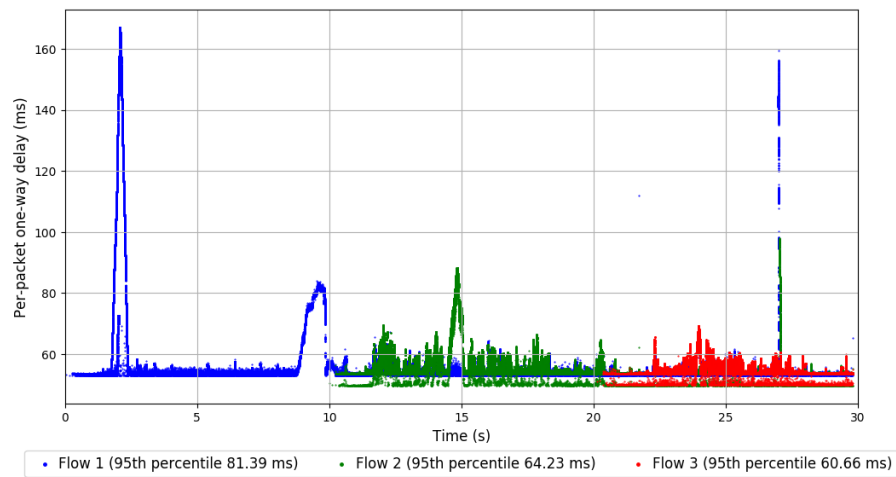
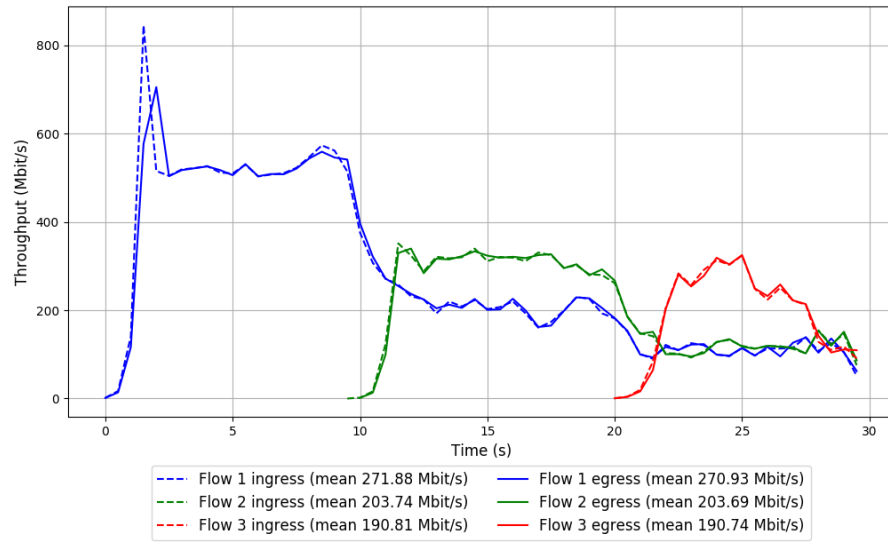
-- Flow 3:

Average throughput: 190.74 Mbit/s

95th percentile per-packet one-way delay: 60.659 ms

Loss rate: 0.00%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2017-08-31 22:01:35

End at: 2017-08-31 22:02:05

Below is generated by plot.py at 2017-09-01 01:13:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 409.37 Mbit/s

95th percentile per-packet one-way delay: 62.745 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 257.38 Mbit/s

95th percentile per-packet one-way delay: 66.060 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 170.98 Mbit/s

95th percentile per-packet one-way delay: 63.042 ms

Loss rate: 0.00%

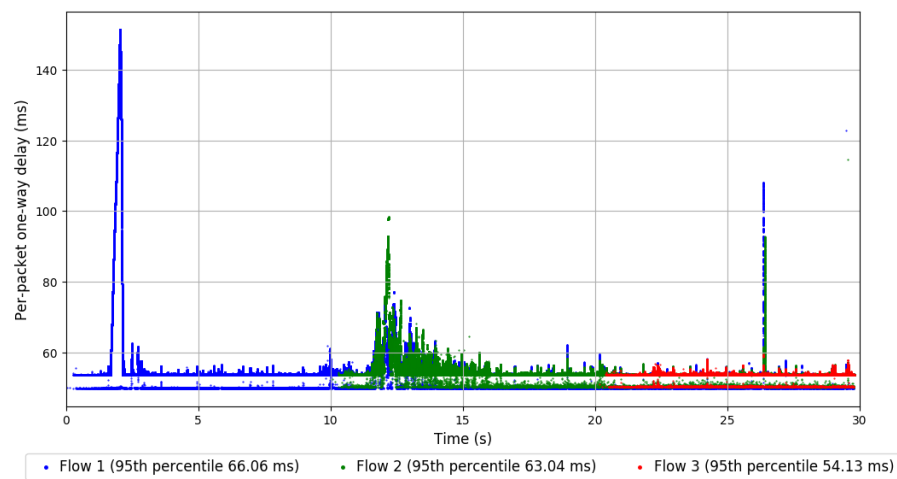
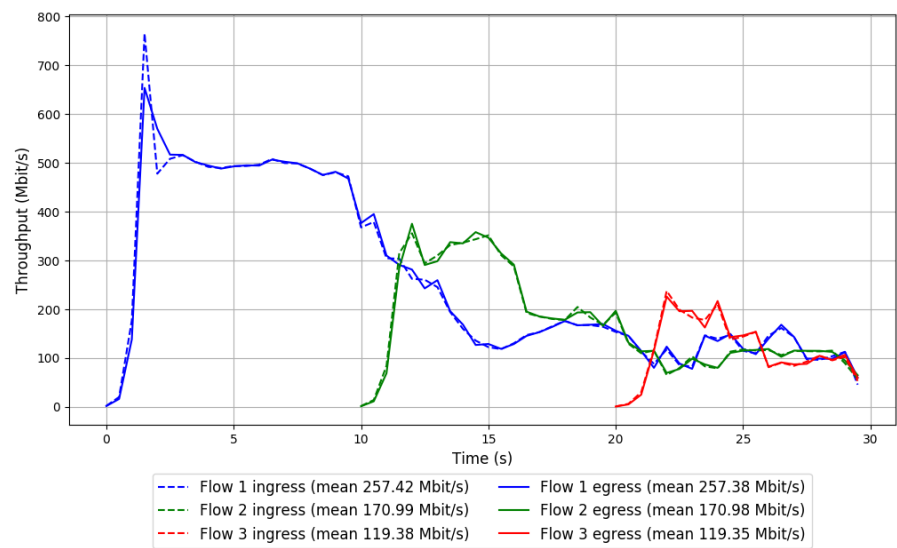
-- Flow 3:

Average throughput: 119.35 Mbit/s

95th percentile per-packet one-way delay: 54.126 ms

Loss rate: 0.00%

Run 6: Report of PCC — Data Link

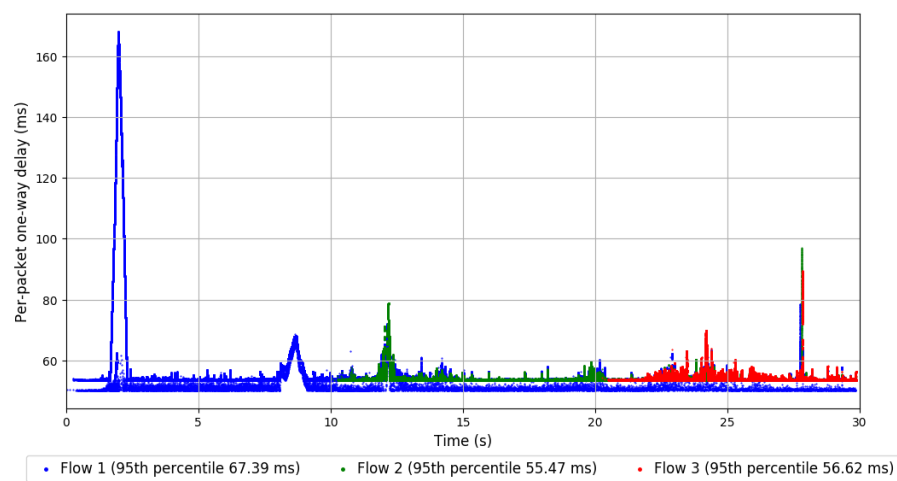
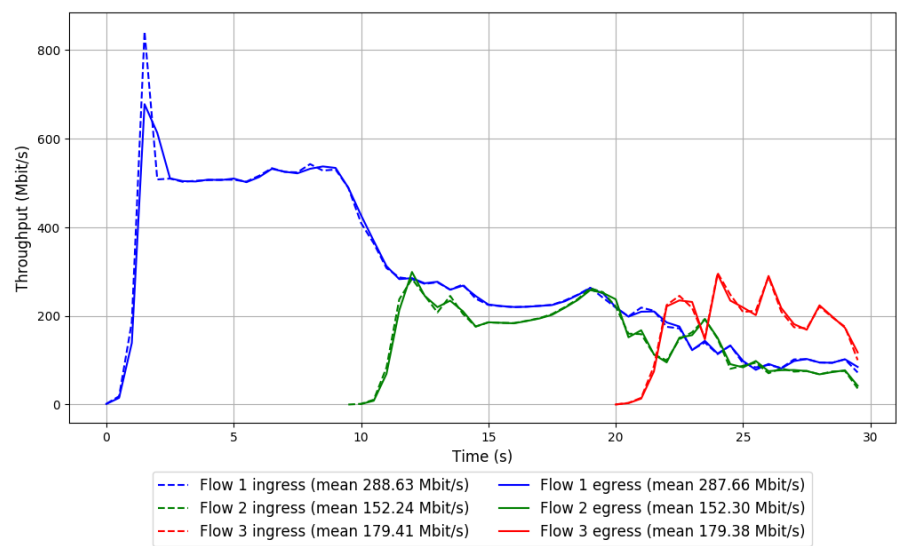


```
Run 7: Statistics of PCC

Start at: 2017-08-31 22:13:26
End at: 2017-08-31 22:13:56

# Below is generated by plot.py at 2017-09-01 01:14:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 446.73 Mbit/s
95th percentile per-packet one-way delay: 62.279 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 287.66 Mbit/s
95th percentile per-packet one-way delay: 67.395 ms
Loss rate: 0.32%
-- Flow 2:
Average throughput: 152.30 Mbit/s
95th percentile per-packet one-way delay: 55.469 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 179.38 Mbit/s
95th percentile per-packet one-way delay: 56.622 ms
Loss rate: 0.01%
```


Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2017-08-31 22:25:32

End at: 2017-08-31 22:26:02

Below is generated by plot.py at 2017-09-01 01:15:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 466.73 Mbit/s

95th percentile per-packet one-way delay: 63.220 ms

Loss rate: 0.25%

-- Flow 1:

Average throughput: 271.61 Mbit/s

95th percentile per-packet one-way delay: 78.993 ms

Loss rate: 0.43%

-- Flow 2:

Average throughput: 187.80 Mbit/s

95th percentile per-packet one-way delay: 61.709 ms

Loss rate: 0.00%

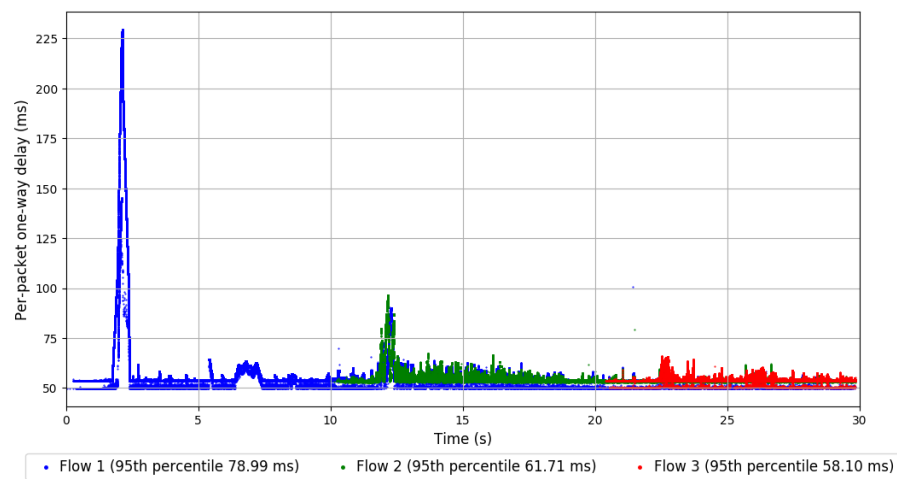
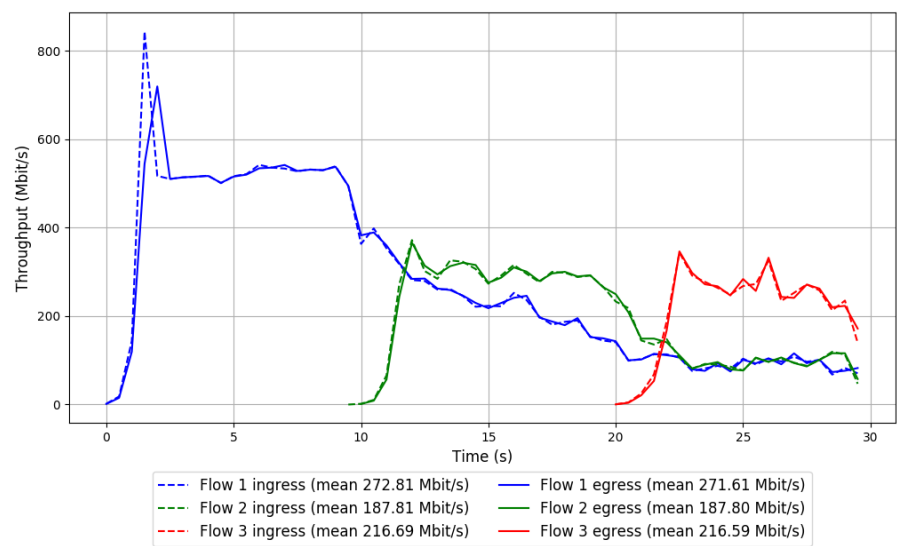
-- Flow 3:

Average throughput: 216.59 Mbit/s

95th percentile per-packet one-way delay: 58.104 ms

Loss rate: 0.01%

Run 8: Report of PCC — Data Link

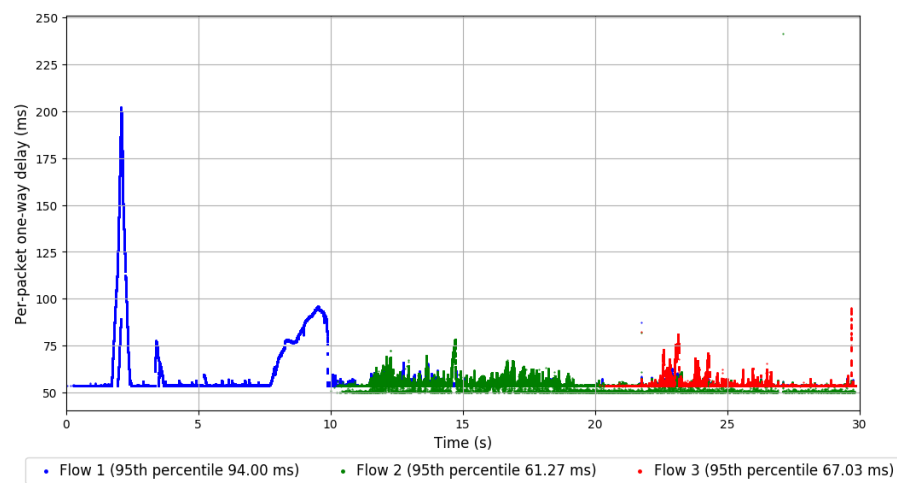
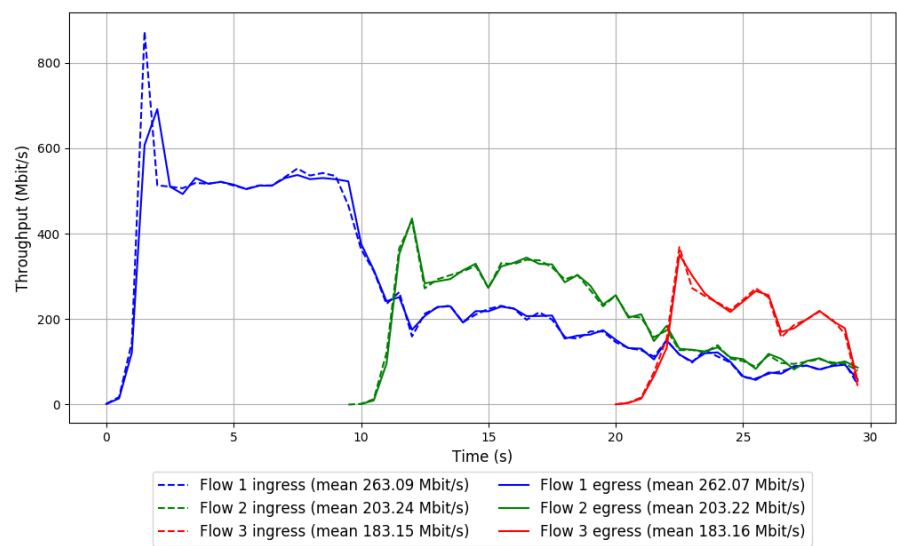


```
Run 9: Statistics of PCC

Start at: 2017-08-31 22:37:31
End at: 2017-08-31 22:38:01

# Below is generated by plot.py at 2017-09-01 01:16:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 456.70 Mbit/s
95th percentile per-packet one-way delay: 89.556 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 262.07 Mbit/s
95th percentile per-packet one-way delay: 93.997 ms
Loss rate: 0.39%
-- Flow 2:
Average throughput: 203.22 Mbit/s
95th percentile per-packet one-way delay: 61.265 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 183.16 Mbit/s
95th percentile per-packet one-way delay: 67.025 ms
Loss rate: 0.00%
```

Run 9: Report of PCC — Data Link

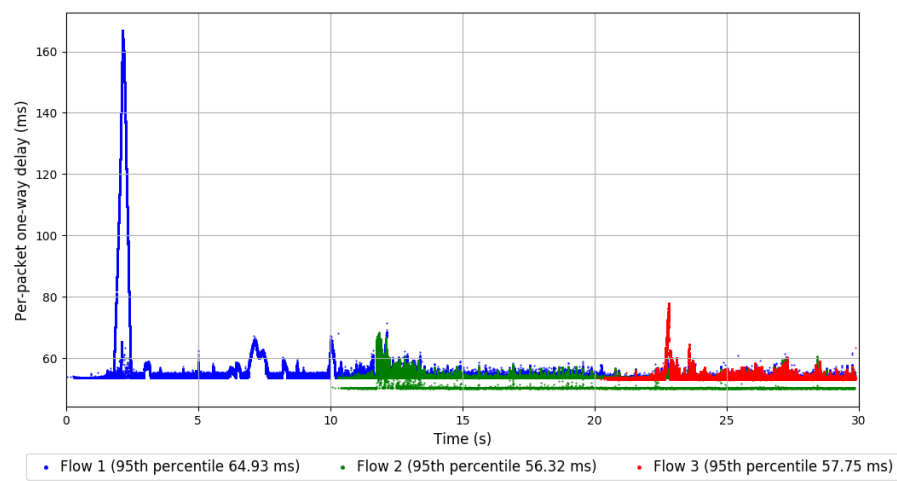
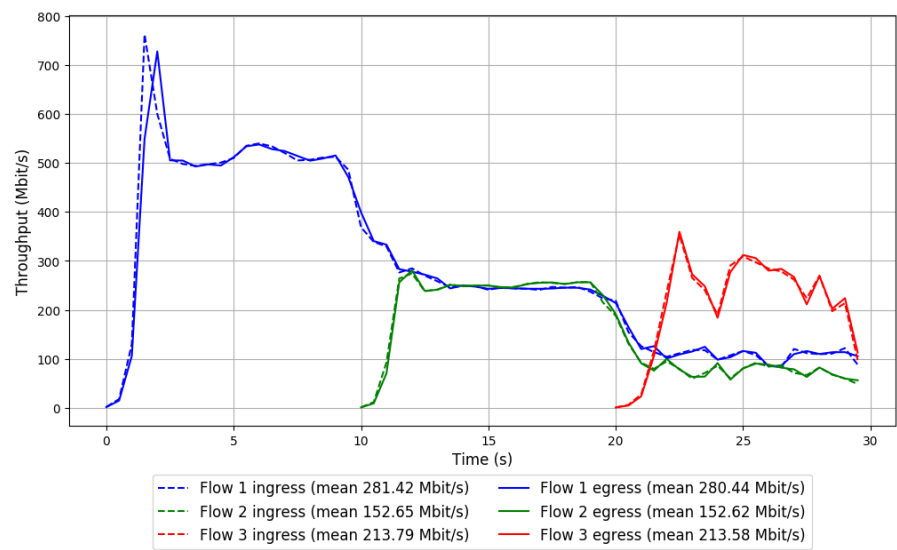


```
Run 10: Statistics of PCC

Start at: 2017-08-31 22:49:19
End at: 2017-08-31 22:49:49

# Below is generated by plot.py at 2017-09-01 01:16:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 451.32 Mbit/s
95th percentile per-packet one-way delay: 62.192 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 280.44 Mbit/s
95th percentile per-packet one-way delay: 64.926 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 152.62 Mbit/s
95th percentile per-packet one-way delay: 56.319 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 213.58 Mbit/s
95th percentile per-packet one-way delay: 57.751 ms
Loss rate: 0.01%
```

Run 10: Report of PCC — Data Link

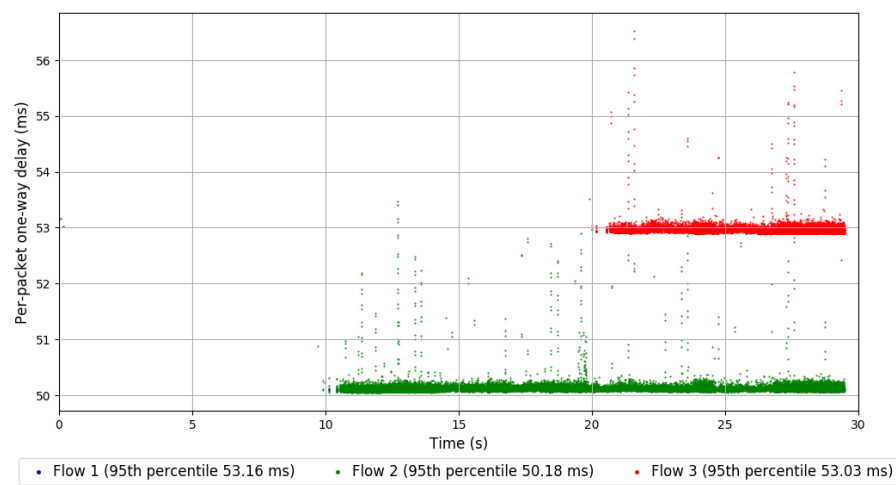
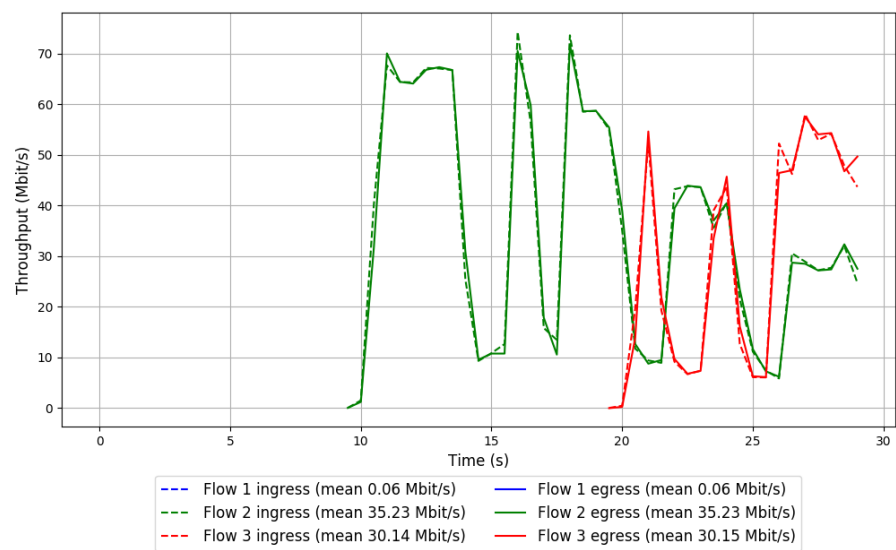


```
Run 1: Statistics of QUIC Cubic

Start at: 2017-08-31 20:58:44
End at: 2017-08-31 20:59:14

# Below is generated by plot.py at 2017-09-01 01:16:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 33.47 Mbit/s
95th percentile per-packet one-way delay: 52.976 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 53.156 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 35.23 Mbit/s
95th percentile per-packet one-way delay: 50.177 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 30.15 Mbit/s
95th percentile per-packet one-way delay: 53.035 ms
Loss rate: 0.00%
```


Run 1: Report of QUIC Cubic — Data Link

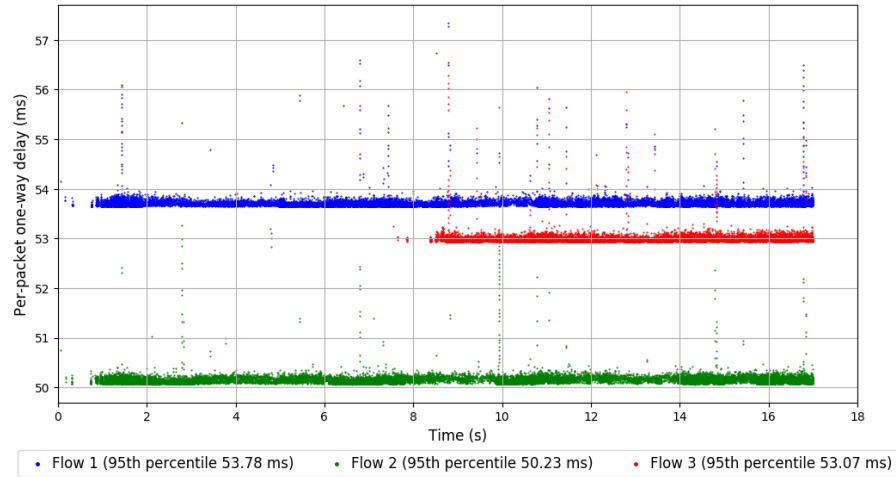
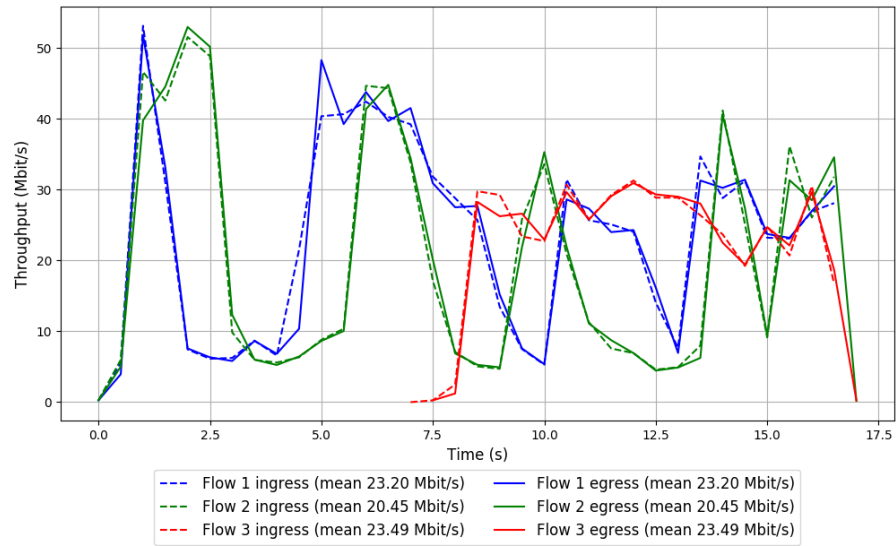


Run 2: Statistics of QUIC Cubic

Start at: 2017-08-31 21:10:48

End at: 2017-08-31 21:11:18

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2017-08-31 21:22:30

End at: 2017-08-31 21:23:00

Below is generated by plot.py at 2017-09-01 01:16:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 33.90 Mbit/s

95th percentile per-packet one-way delay: 53.698 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 50.390 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 40.65 Mbit/s

95th percentile per-packet one-way delay: 49.848 ms

Loss rate: 0.00%

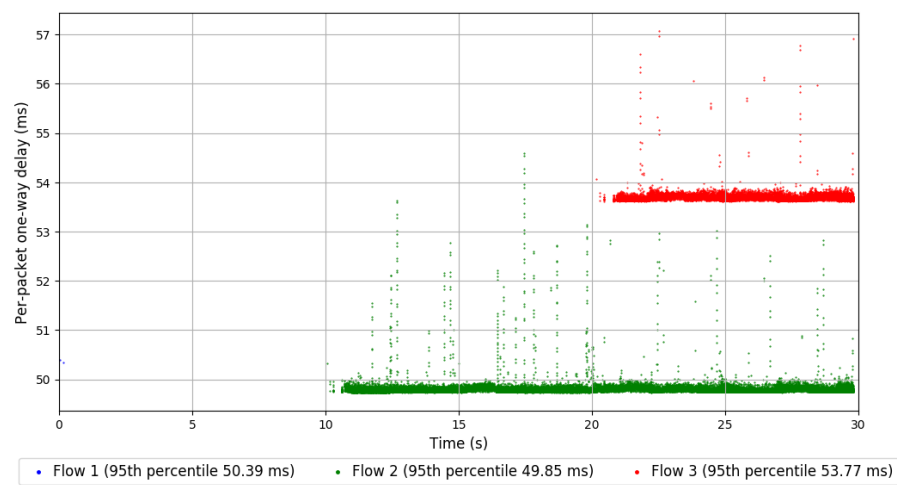
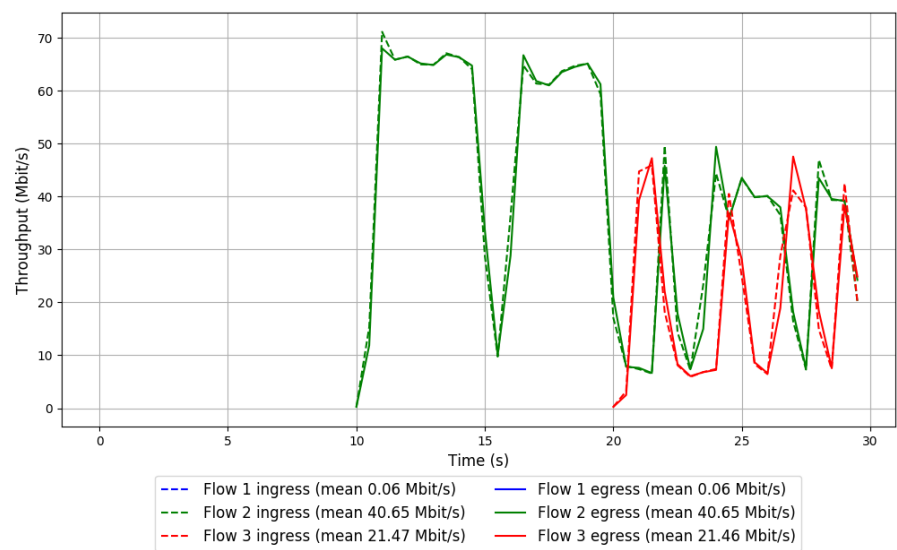
-- Flow 3:

Average throughput: 21.46 Mbit/s

95th percentile per-packet one-way delay: 53.771 ms

Loss rate: 0.03%

Run 3: Report of QUIC Cubic — Data Link

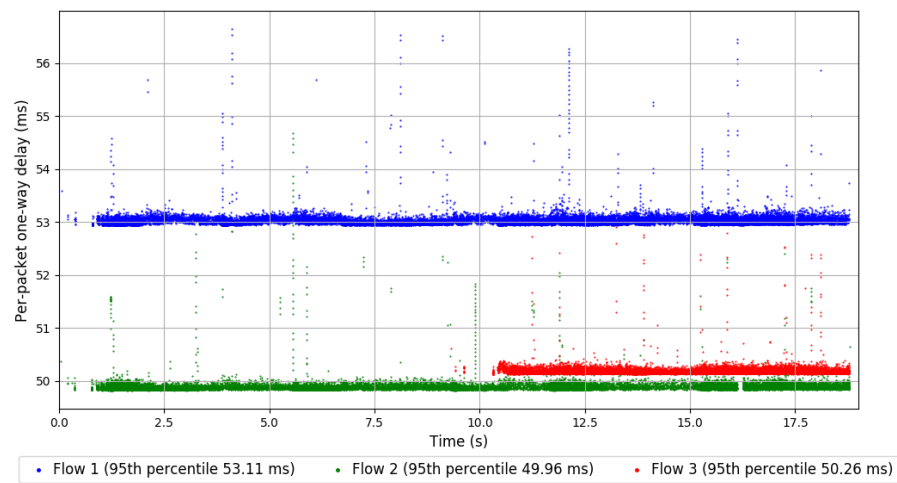
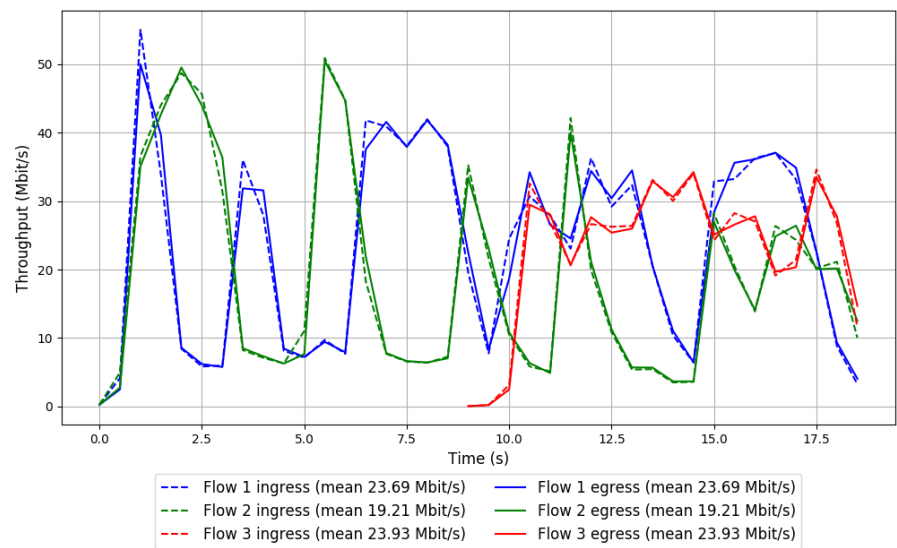


Run 4: Statistics of QUIC Cubic

Start at: 2017-08-31 21:34:41

End at: 2017-08-31 21:35:11

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2017-08-31 21:46:40

End at: 2017-08-31 21:47:10

Below is generated by plot.py at 2017-09-01 01:17:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 37.19 Mbit/s

95th percentile per-packet one-way delay: 53.637 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 50.275 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 39.53 Mbit/s

95th percentile per-packet one-way delay: 49.898 ms

Loss rate: 0.00%

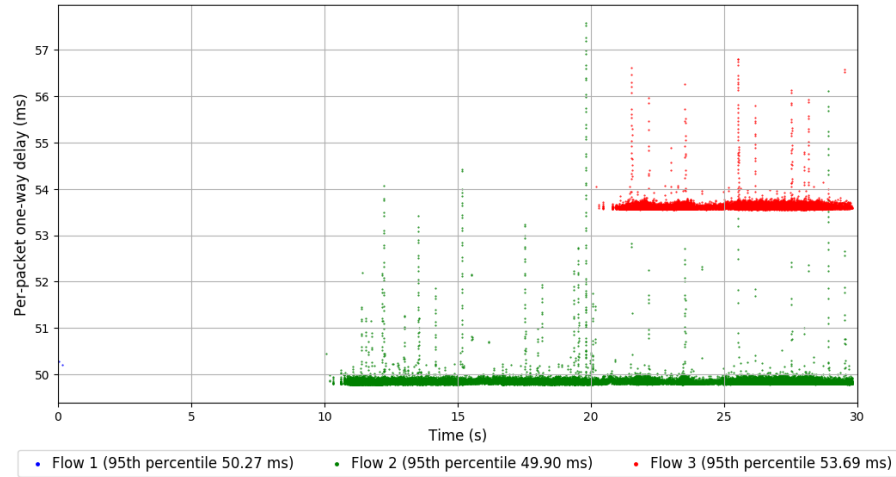
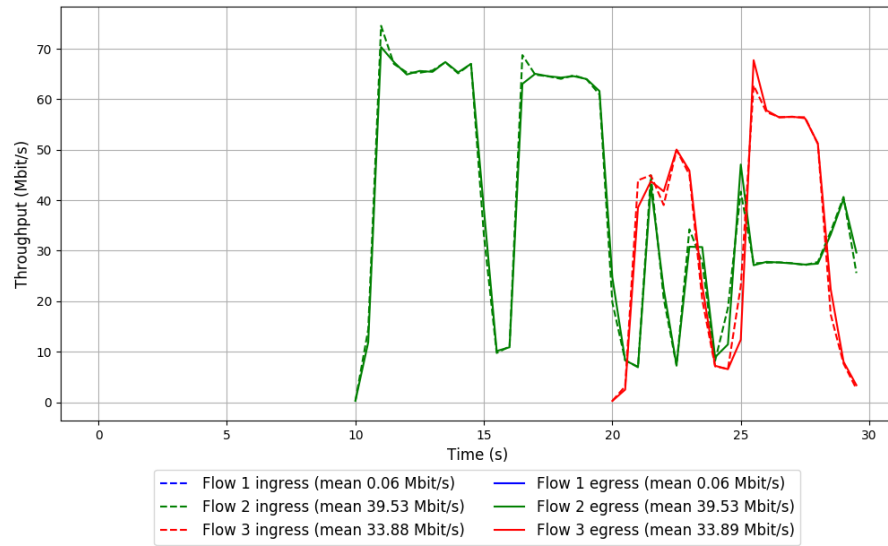
-- Flow 3:

Average throughput: 33.89 Mbit/s

95th percentile per-packet one-way delay: 53.690 ms

Loss rate: 0.00%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2017-08-31 21:58:33

End at: 2017-08-31 21:59:03

Below is generated by plot.py at 2017-09-01 01:17:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 37.26 Mbit/s

95th percentile per-packet one-way delay: 53.668 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 53.116 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 38.89 Mbit/s

95th percentile per-packet one-way delay: 53.641 ms

Loss rate: 0.00%

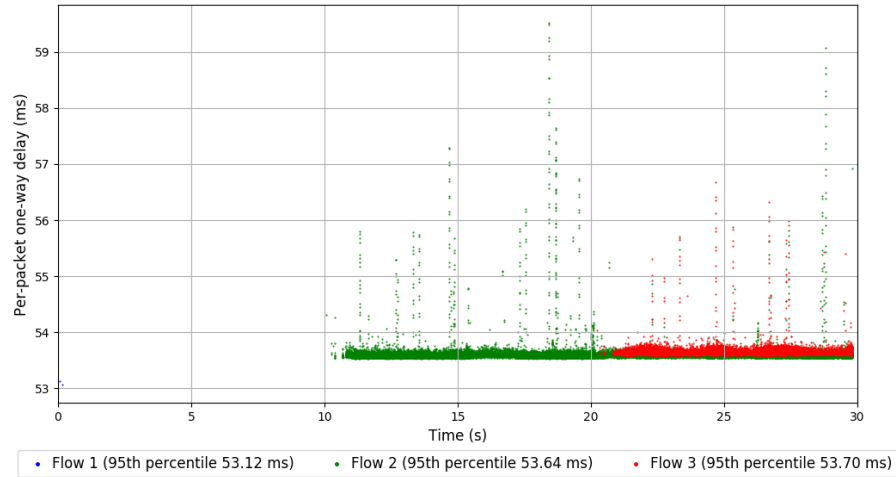
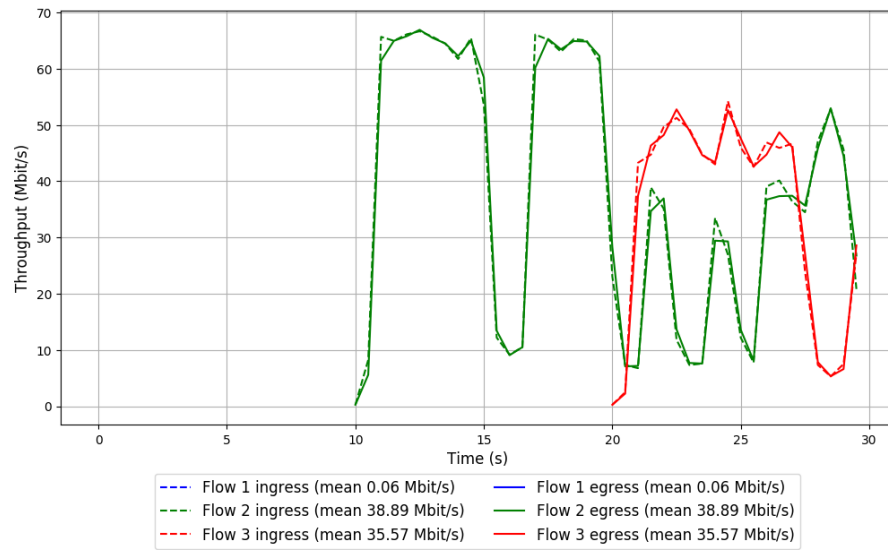
-- Flow 3:

Average throughput: 35.57 Mbit/s

95th percentile per-packet one-way delay: 53.701 ms

Loss rate: 0.00%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2017-08-31 22:10:18

End at: 2017-08-31 22:10:48

Below is generated by plot.py at 2017-09-01 01:17:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 35.30 Mbit/s

95th percentile per-packet one-way delay: 53.003 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 50.291 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 43.12 Mbit/s

95th percentile per-packet one-way delay: 49.934 ms

Loss rate: 0.00%

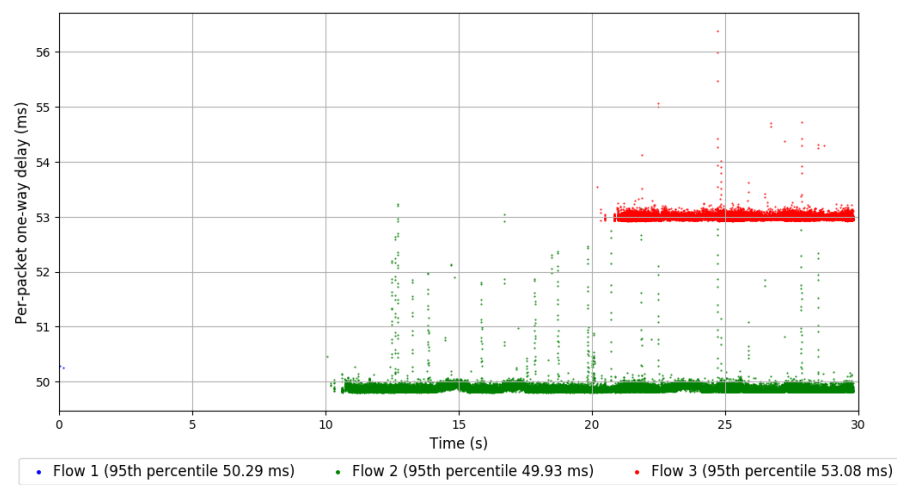
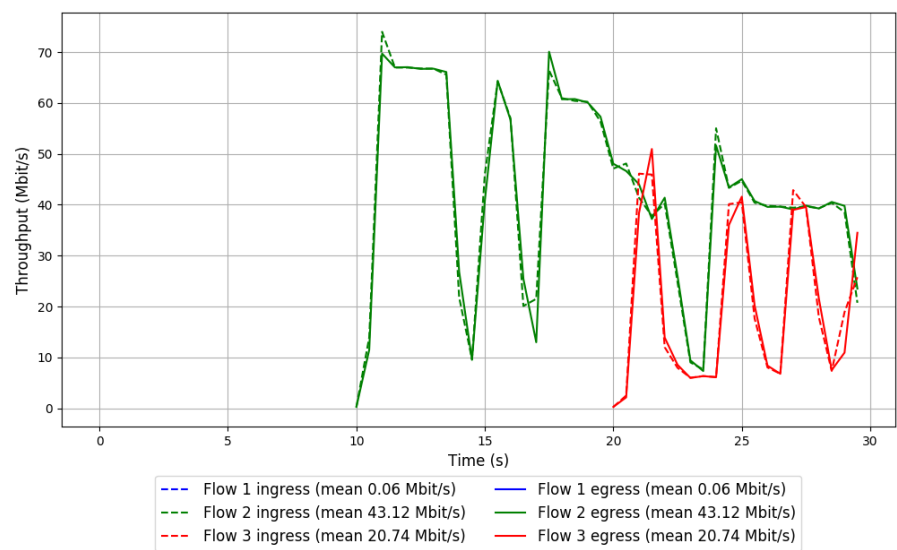
-- Flow 3:

Average throughput: 20.74 Mbit/s

95th percentile per-packet one-way delay: 53.075 ms

Loss rate: 0.00%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2017-08-31 22:22:35

End at: 2017-08-31 22:23:05

Below is generated by plot.py at 2017-09-01 01:17:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 39.26 Mbit/s

95th percentile per-packet one-way delay: 53.658 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 50.425 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 41.70 Mbit/s

95th percentile per-packet one-way delay: 53.673 ms

Loss rate: 0.00%

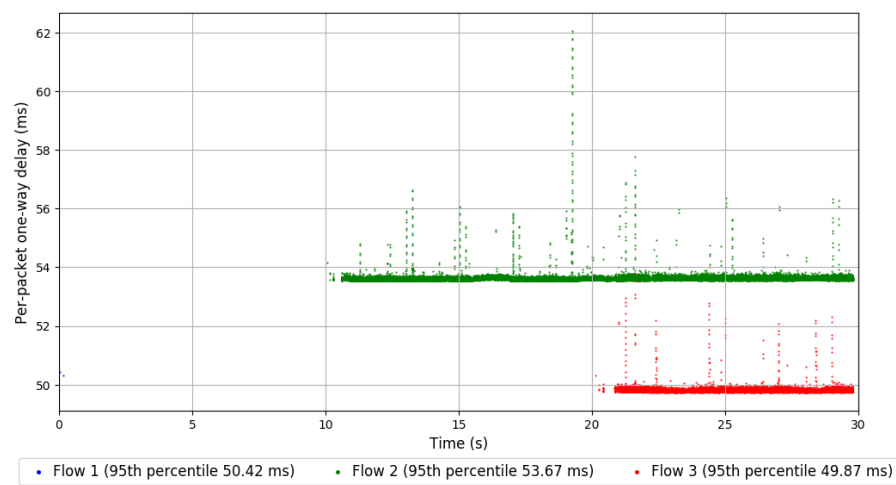
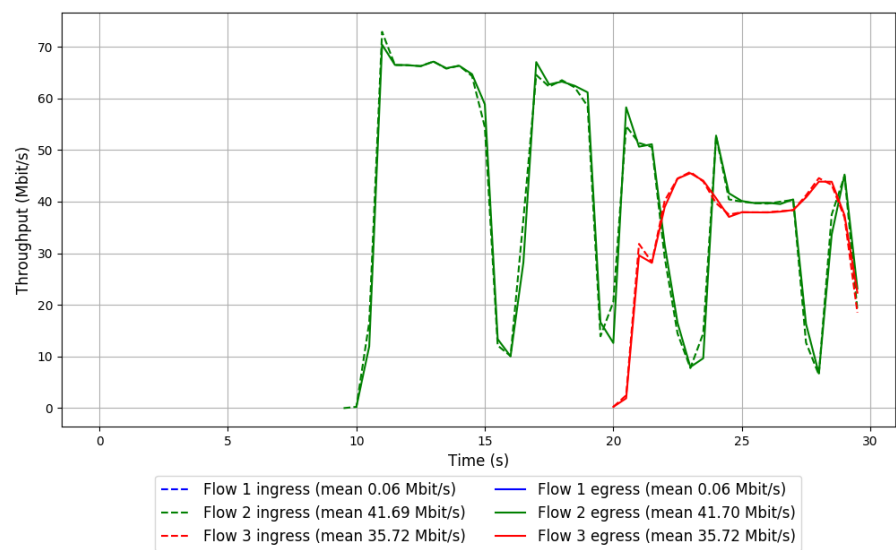
-- Flow 3:

Average throughput: 35.72 Mbit/s

95th percentile per-packet one-way delay: 49.872 ms

Loss rate: 0.00%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2017-08-31 22:34:23

End at: 2017-08-31 22:34:53

Below is generated by plot.py at 2017-09-01 01:17:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 38.33 Mbit/s

95th percentile per-packet one-way delay: 53.684 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 53.810 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 40.66 Mbit/s

95th percentile per-packet one-way delay: 53.699 ms

Loss rate: 0.00%

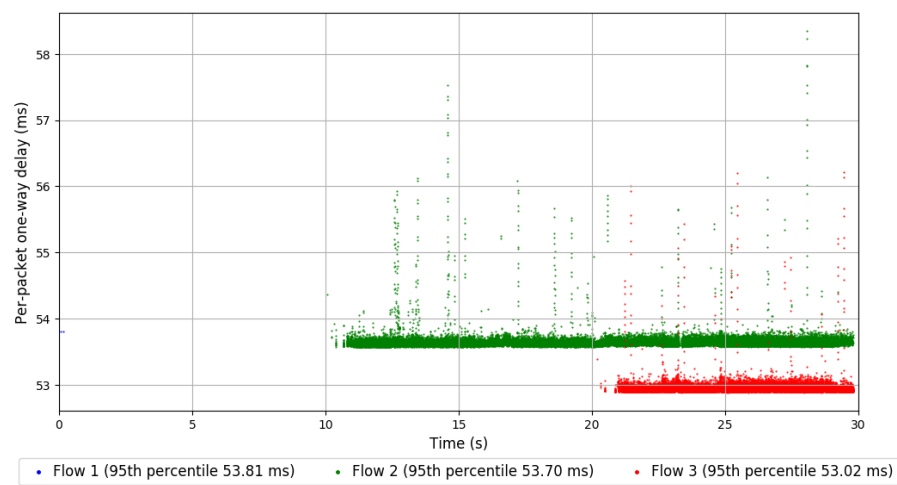
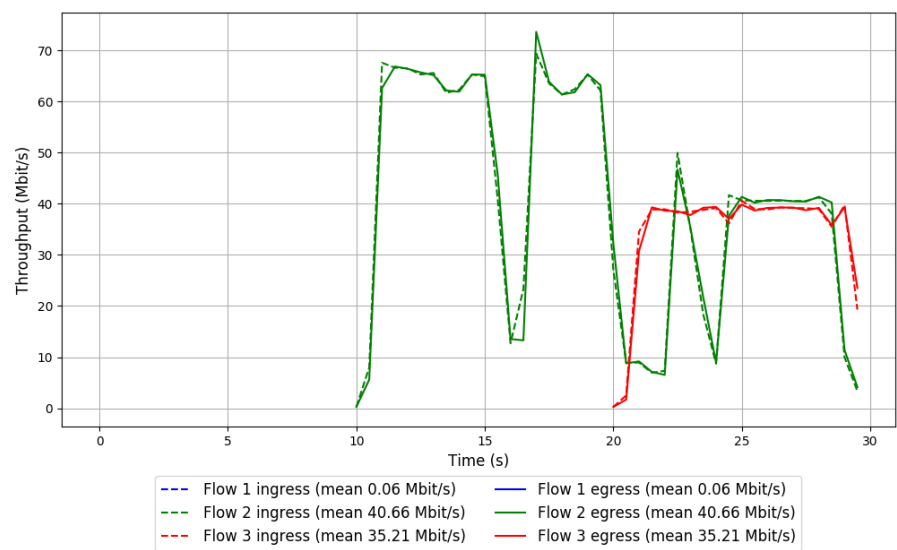
-- Flow 3:

Average throughput: 35.21 Mbit/s

95th percentile per-packet one-way delay: 53.023 ms

Loss rate: 0.00%

Run 9: Report of QUIC Cubic — Data Link

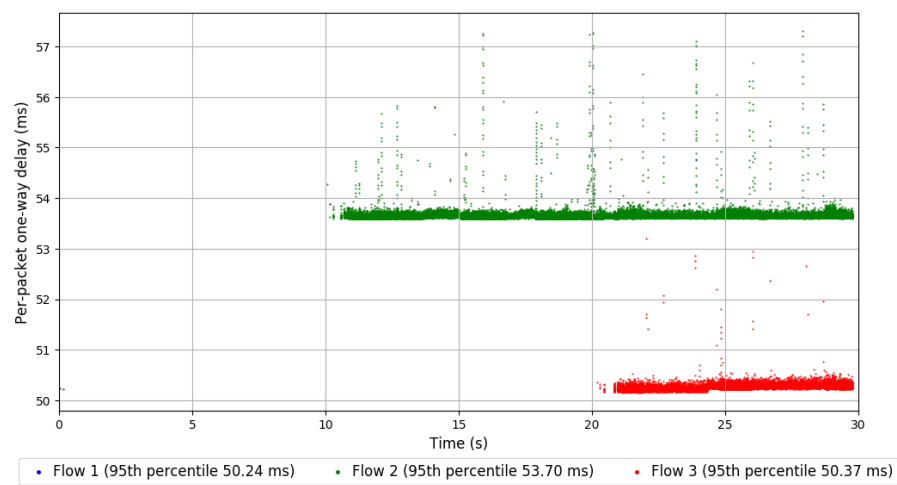
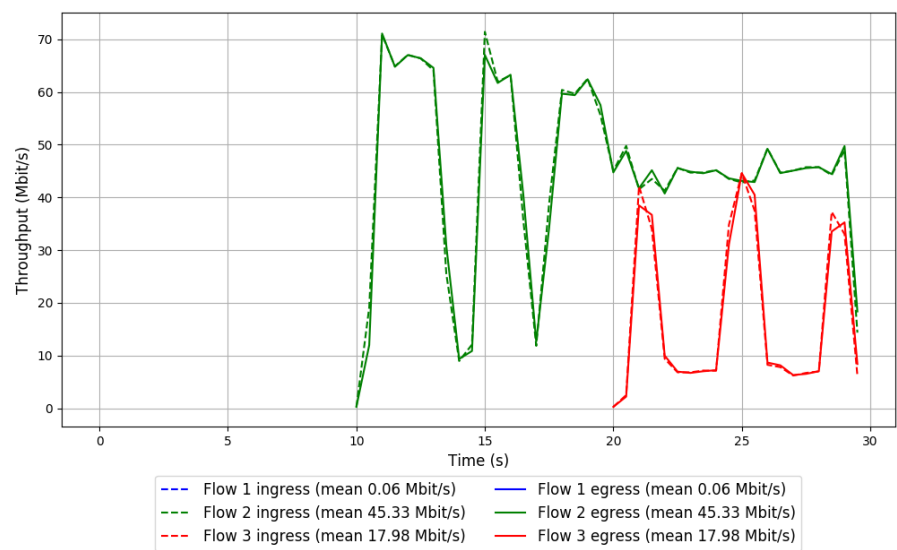


```
Run 10: Statistics of QUIC Cubic

Start at: 2017-08-31 22:46:11
End at: 2017-08-31 22:46:41

# Below is generated by plot.py at 2017-09-01 01:17:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 35.89 Mbit/s
95th percentile per-packet one-way delay: 53.695 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 50.244 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 45.33 Mbit/s
95th percentile per-packet one-way delay: 53.703 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 17.98 Mbit/s
95th percentile per-packet one-way delay: 50.367 ms
Loss rate: 0.00%
```

Run 10: Report of QUIC Cubic — Data Link

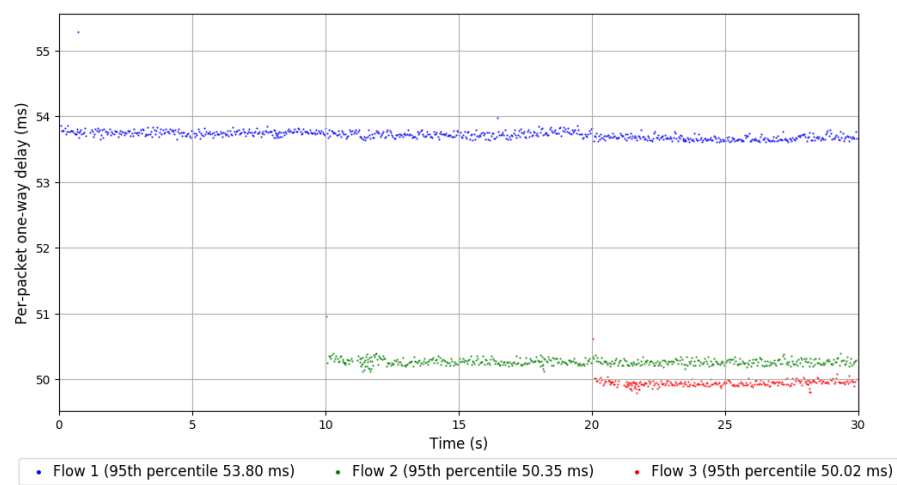
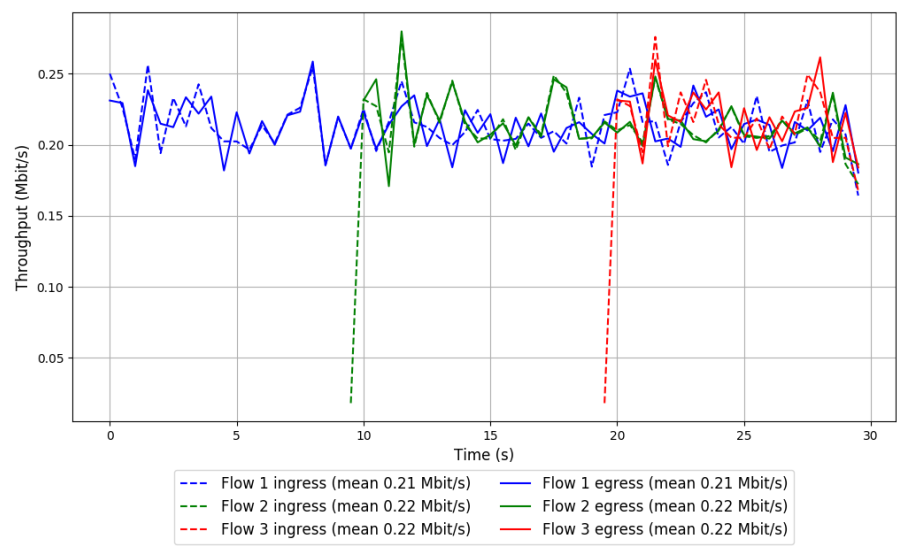


```
Run 1: Statistics of SCReAM

Start at: 2017-08-31 21:07:01
End at: 2017-08-31 21:07:31

# Below is generated by plot.py at 2017-09-01 01:17:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 53.789 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.804 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.350 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.018 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

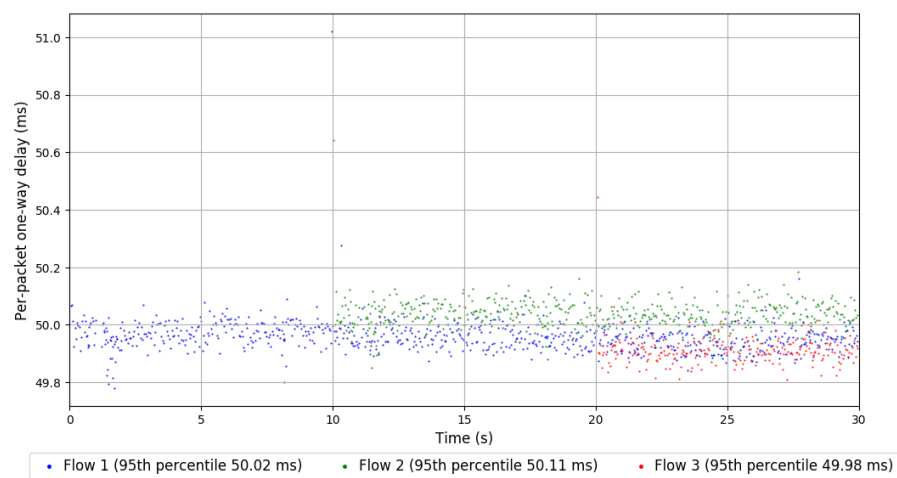
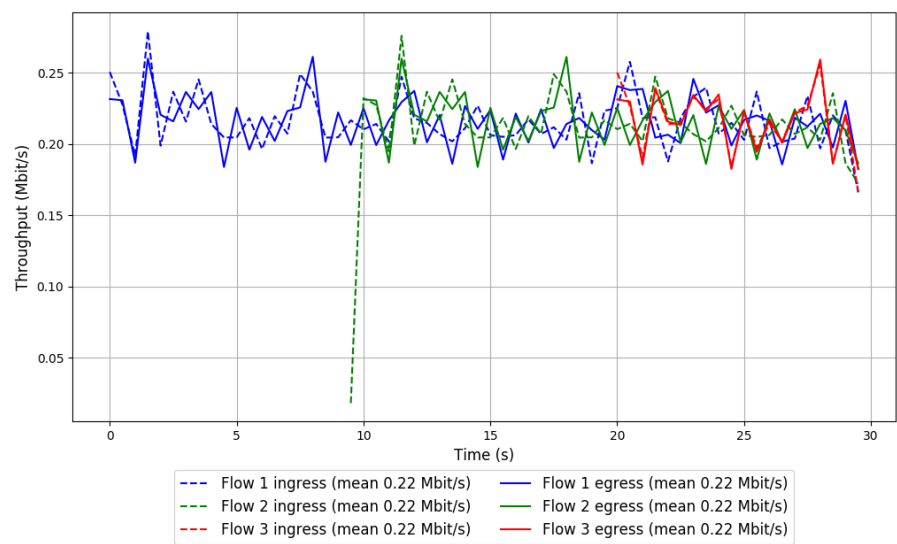


```
Run 2: Statistics of SCReAM

Start at: 2017-08-31 21:18:55
End at: 2017-08-31 21:19:25

# Below is generated by plot.py at 2017-09-01 01:17:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 50.085 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.023 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.109 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 49.984 ms
Loss rate: 0.00%
```

Run 2: Report of SReAM — Data Link

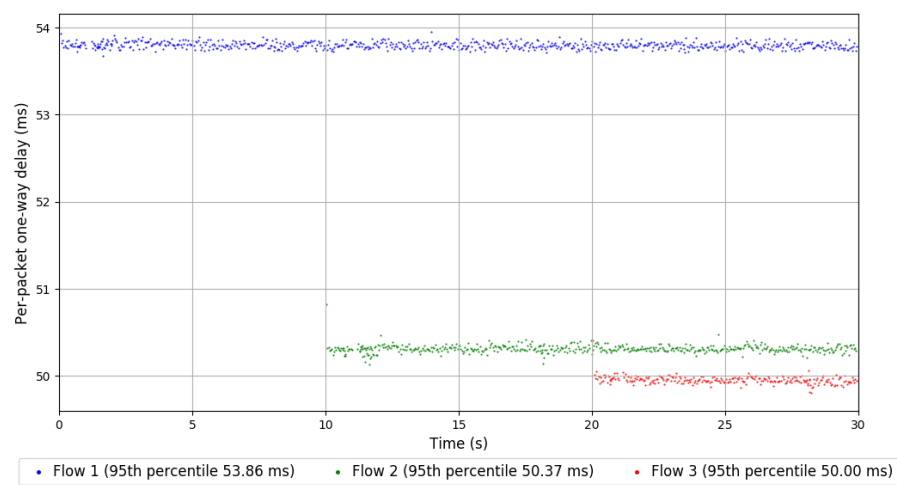
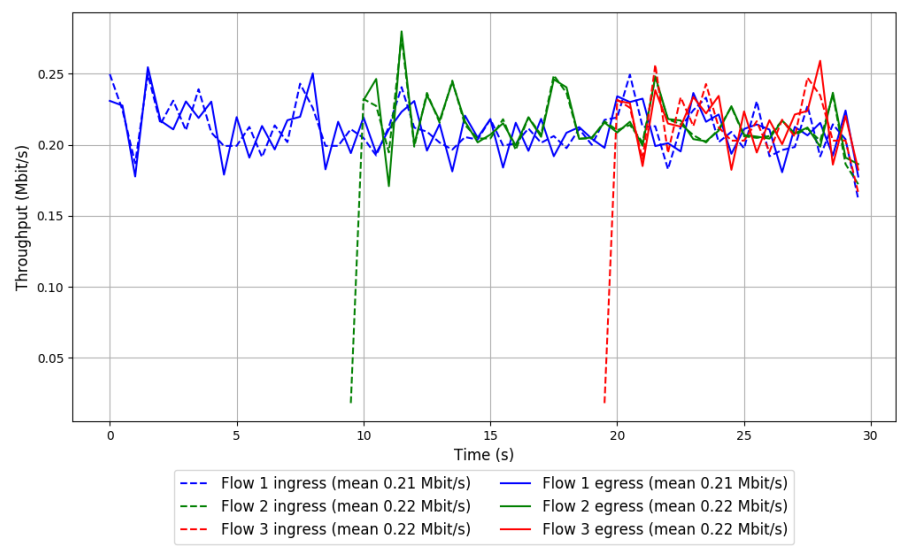


```
Run 3: Statistics of SReAM

Start at: 2017-08-31 21:30:50
End at: 2017-08-31 21:31:20

# Below is generated by plot.py at 2017-09-01 01:17:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 53.853 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.864 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.370 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.004 ms
Loss rate: 0.00%
```


Run 3: Report of SReAM — Data Link



Run 4: Statistics of SReAM

Start at: 2017-08-31 21:42:50

End at: 2017-08-31 21:43:20

Below is generated by plot.py at 2017-09-01 01:17:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 53.145 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.418 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.167 ms

Loss rate: 0.00%

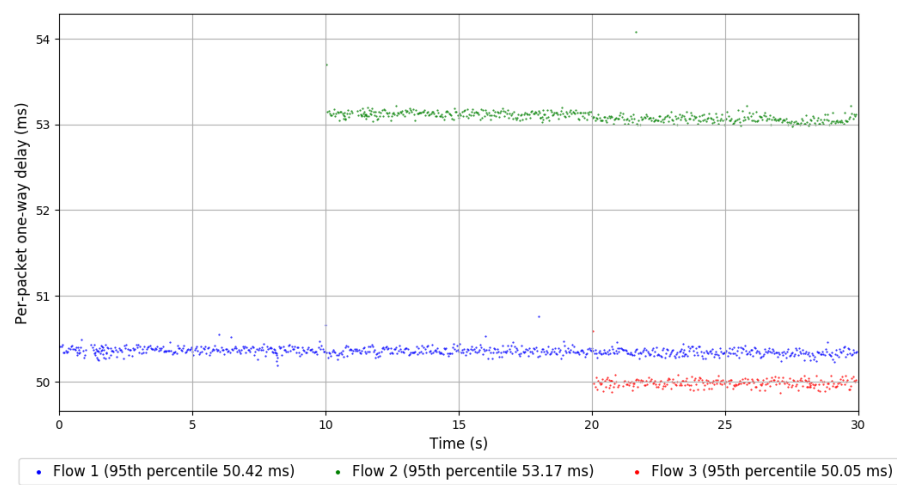
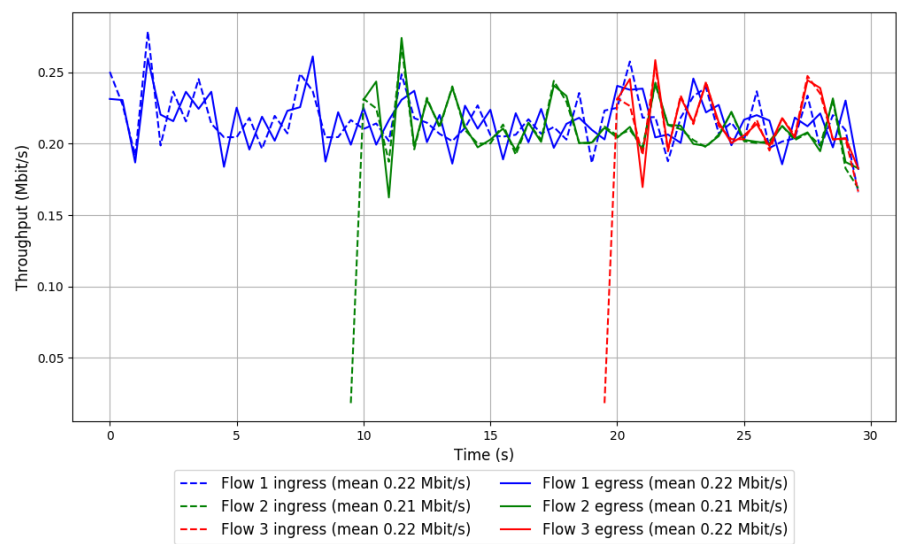
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.050 ms

Loss rate: 0.00%

Run 4: Report of SCReAM — Data Link

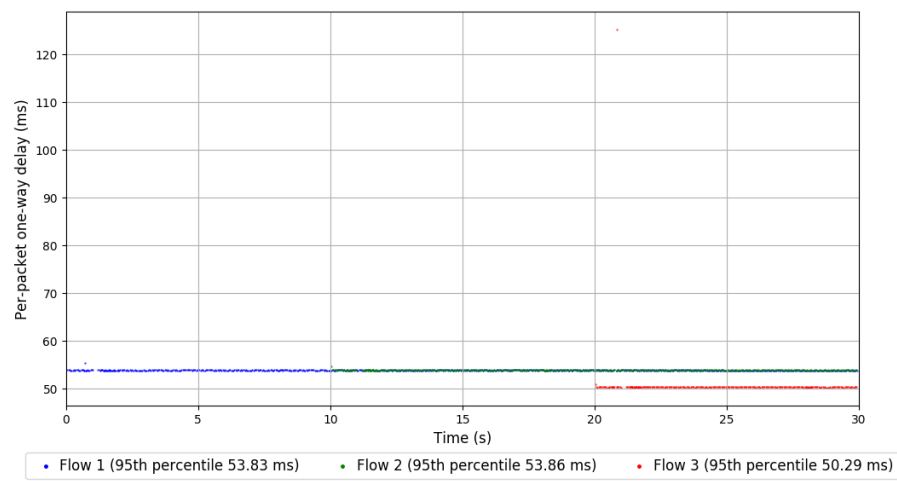
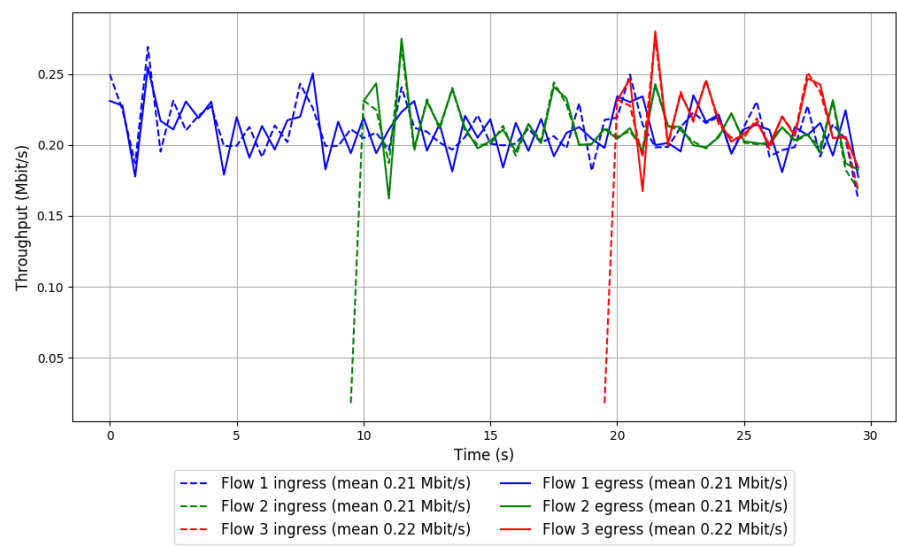


```
Run 5: Statistics of SCReAM

Start at: 2017-08-31 21:54:44
End at: 2017-08-31 21:55:14

# Below is generated by plot.py at 2017-09-01 01:17:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 53.845 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.832 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.863 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.294 ms
Loss rate: 0.00%
```

Run 5: Report of SReAM — Data Link

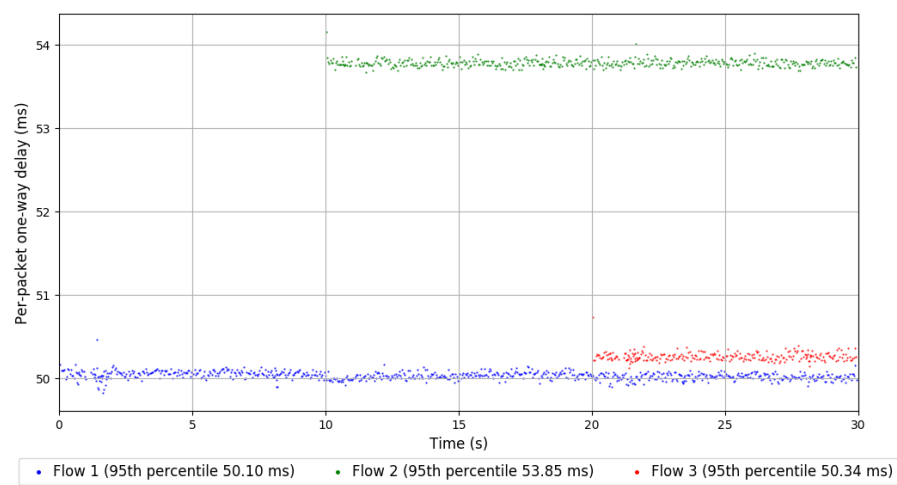
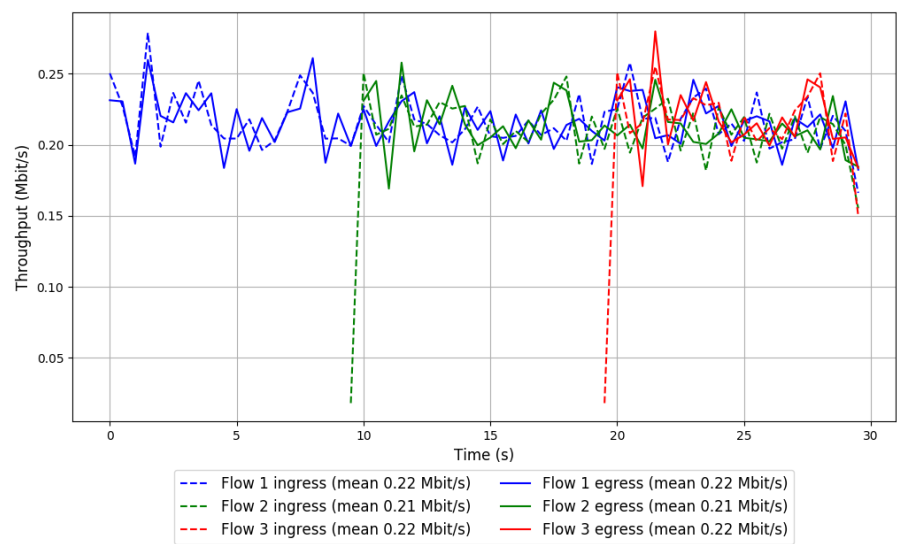


```
Run 6: Statistics of SReAM

Start at: 2017-08-31 22:06:39
End at: 2017-08-31 22:07:09

# Below is generated by plot.py at 2017-09-01 01:17:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 53.819 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.104 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.847 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.336 ms
Loss rate: 0.00%
```

Run 6: Report of SReAM — Data Link

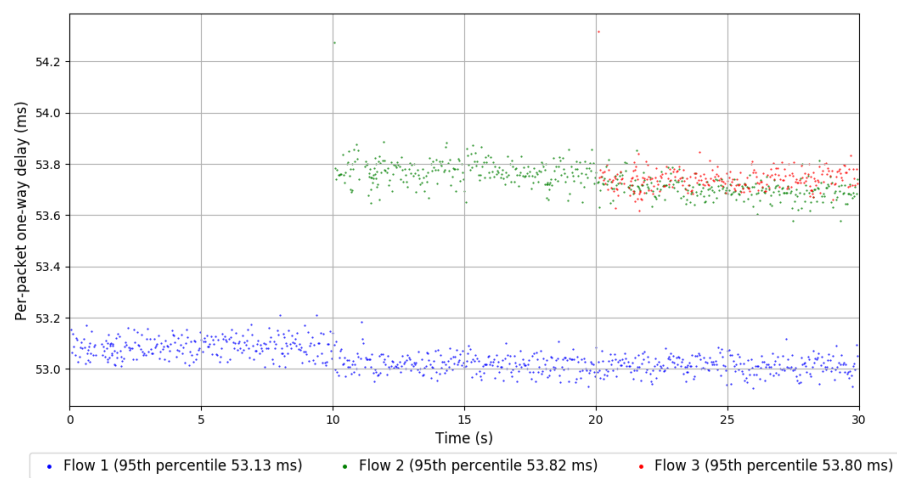
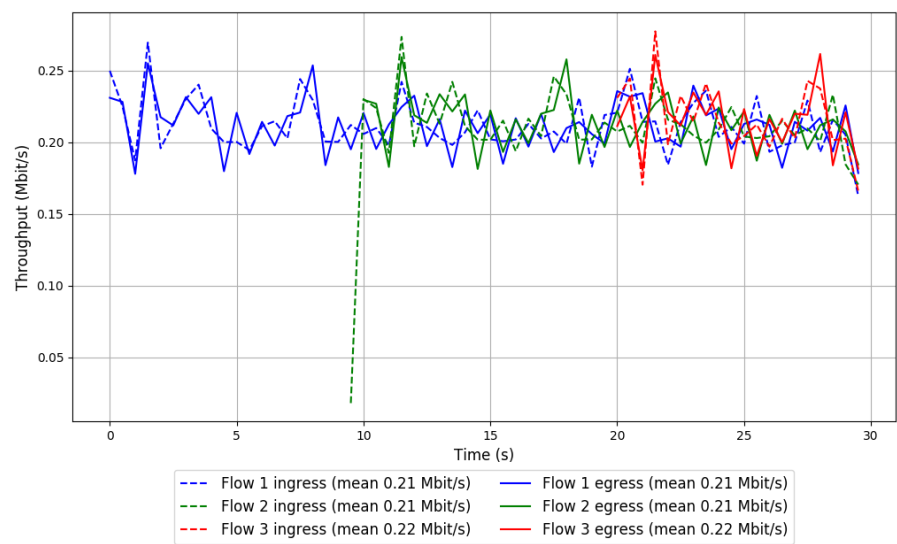


```
Run 7: Statistics of SCReAM

Start at: 2017-08-31 22:18:49
End at: 2017-08-31 22:19:19

# Below is generated by plot.py at 2017-09-01 01:17:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 53.803 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.130 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.824 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 53.801 ms
Loss rate: 0.00%
```


Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2017-08-31 22:30:41

End at: 2017-08-31 22:31:11

Below is generated by plot.py at 2017-09-01 01:17:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 53.130 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 50.369 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.144 ms

Loss rate: 0.00%

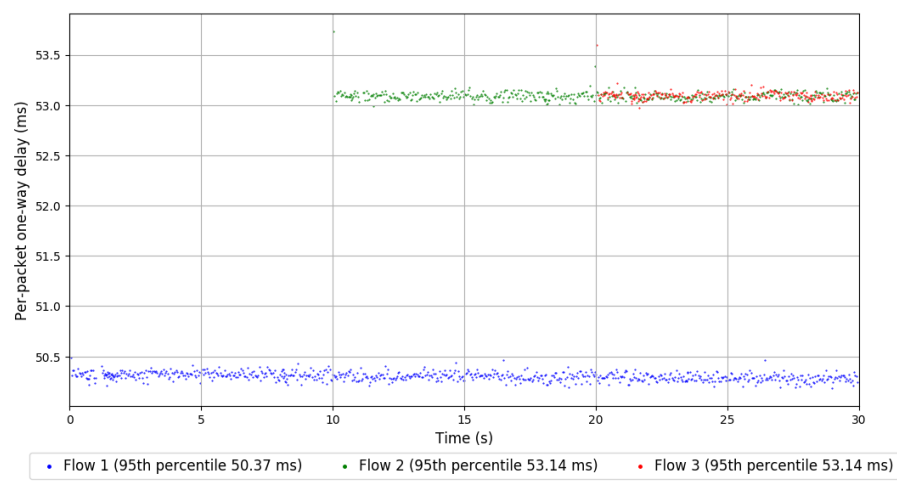
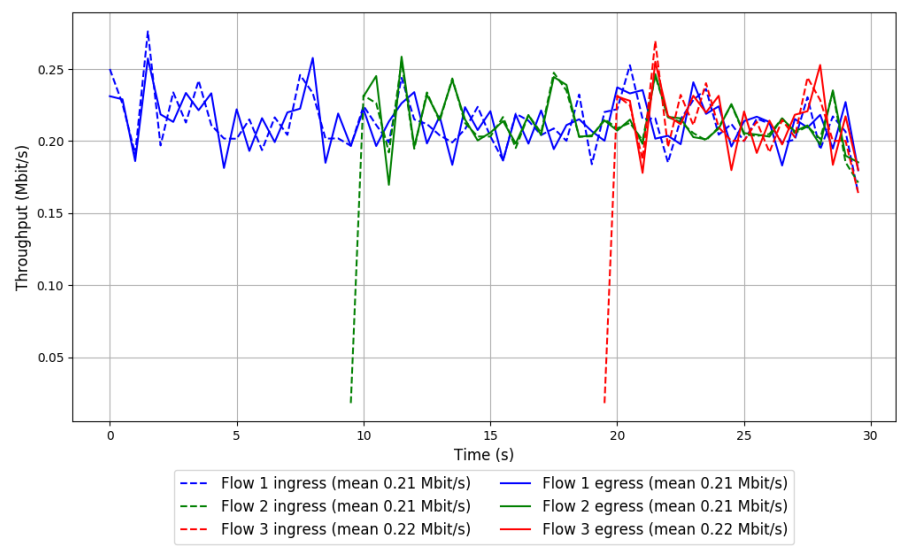
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 53.141 ms

Loss rate: 0.00%

Run 8: Report of SCSReAM — Data Link

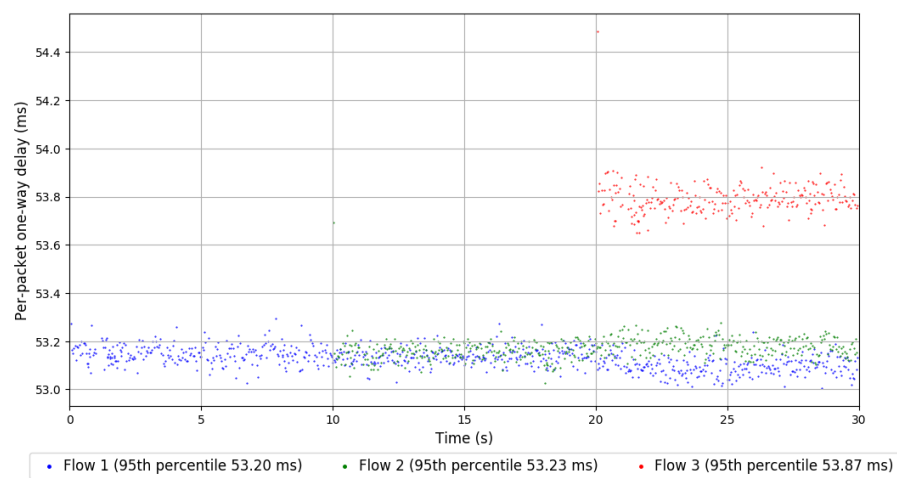
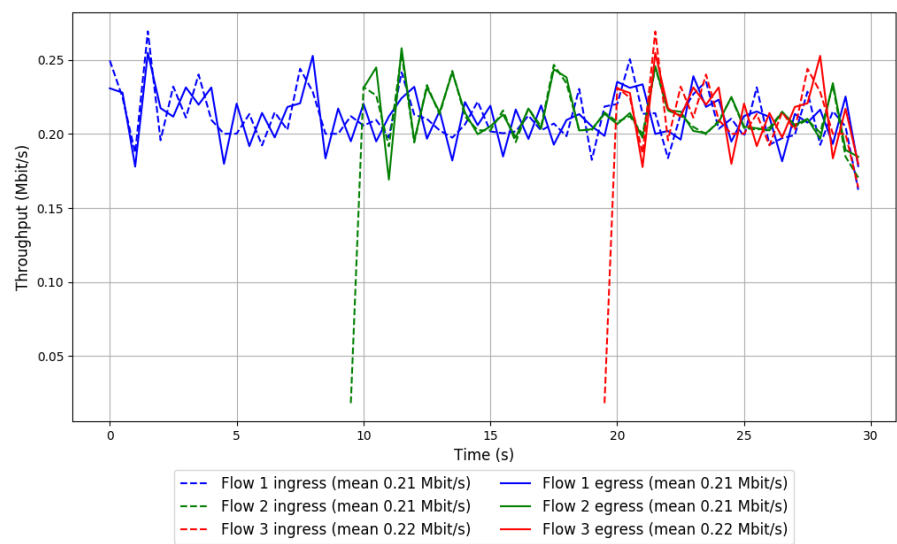


```
Run 9: Statistics of SCReAM

Start at: 2017-08-31 22:42:40
End at: 2017-08-31 22:43:10

# Below is generated by plot.py at 2017-09-01 01:17:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 53.816 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.200 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.234 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 53.873 ms
Loss rate: 0.00%
```

Run 9: Report of SReAM — Data Link

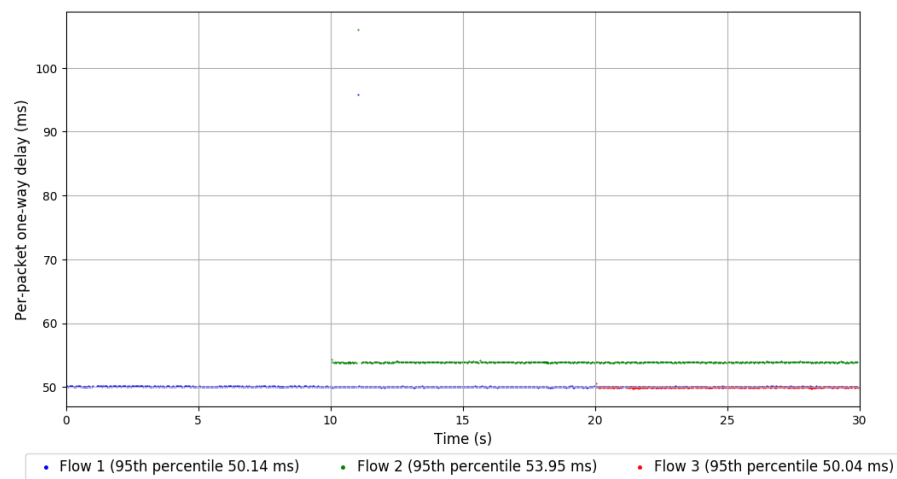
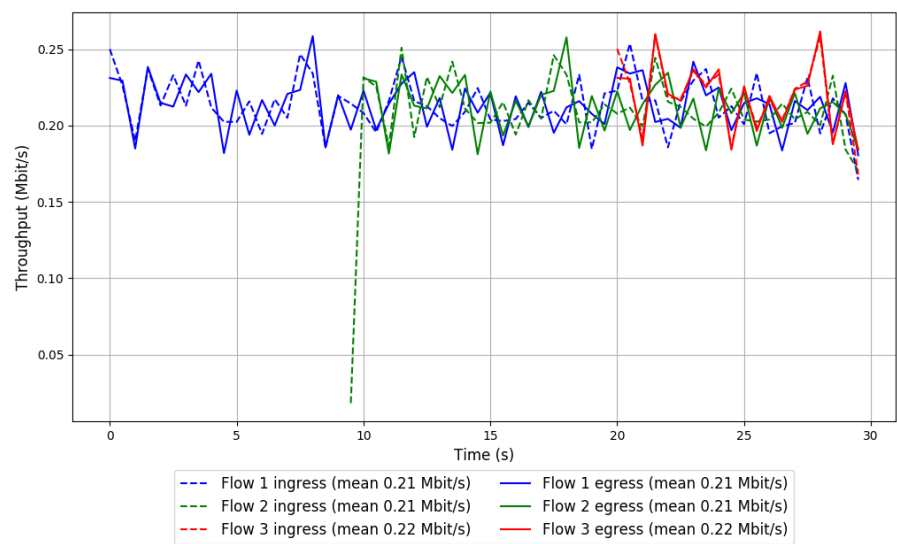


```
Run 10: Statistics of SReAM

Start at: 2017-08-31 22:54:34
End at: 2017-08-31 22:55:04

# Below is generated by plot.py at 2017-09-01 01:17:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 53.923 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 50.143 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.949 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.042 ms
Loss rate: 0.00%
```

Run 10: Report of SCReAM — Data Link

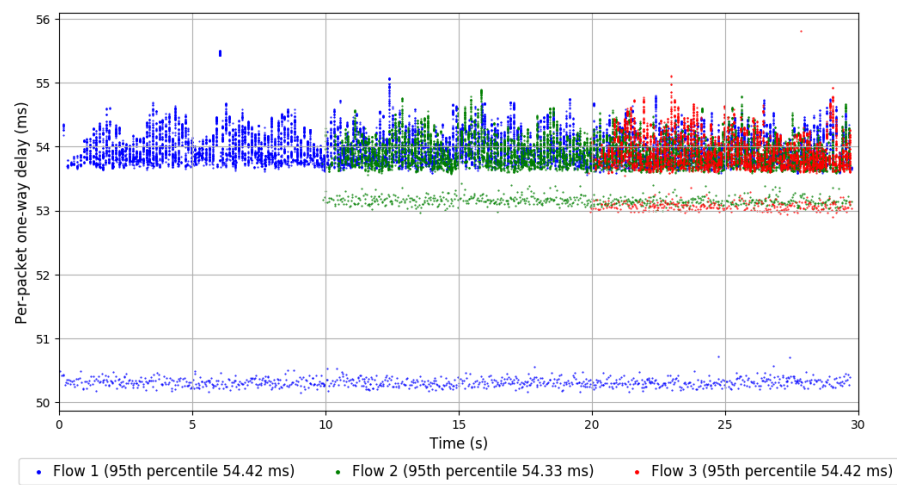
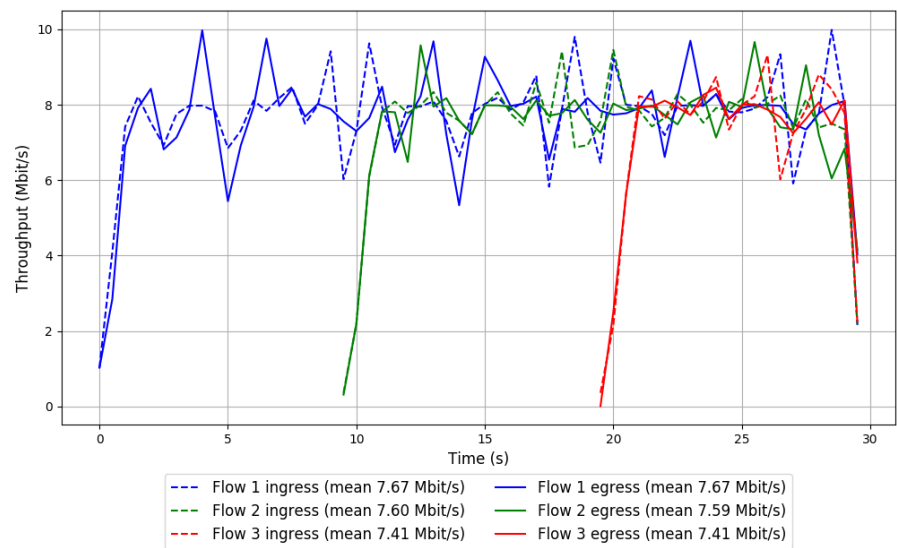


```
Run 1: Statistics of Sprout

Start at: 2017-08-31 21:03:43
End at: 2017-08-31 21:04:13

# Below is generated by plot.py at 2017-09-01 01:17:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 15.20 Mbit/s
95th percentile per-packet one-way delay: 54.399 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 7.67 Mbit/s
95th percentile per-packet one-way delay: 54.422 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 7.59 Mbit/s
95th percentile per-packet one-way delay: 54.332 ms
Loss rate: 0.15%
-- Flow 3:
Average throughput: 7.41 Mbit/s
95th percentile per-packet one-way delay: 54.420 ms
Loss rate: 0.00%
```


Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2017-08-31 21:15:34

End at: 2017-08-31 21:16:04

Below is generated by plot.py at 2017-09-01 01:17:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.16 Mbit/s

95th percentile per-packet one-way delay: 54.330 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 7.72 Mbit/s

95th percentile per-packet one-way delay: 54.336 ms

Loss rate: 0.12%

-- Flow 2:

Average throughput: 7.62 Mbit/s

95th percentile per-packet one-way delay: 54.285 ms

Loss rate: 0.00%

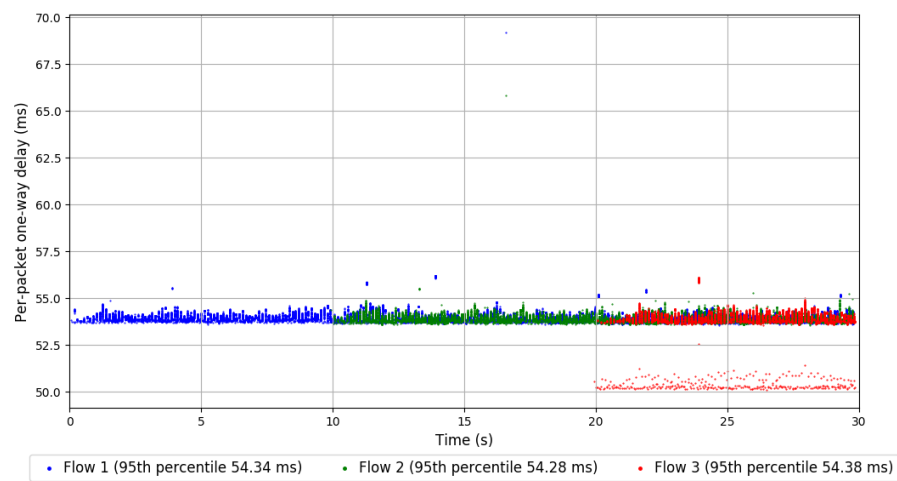
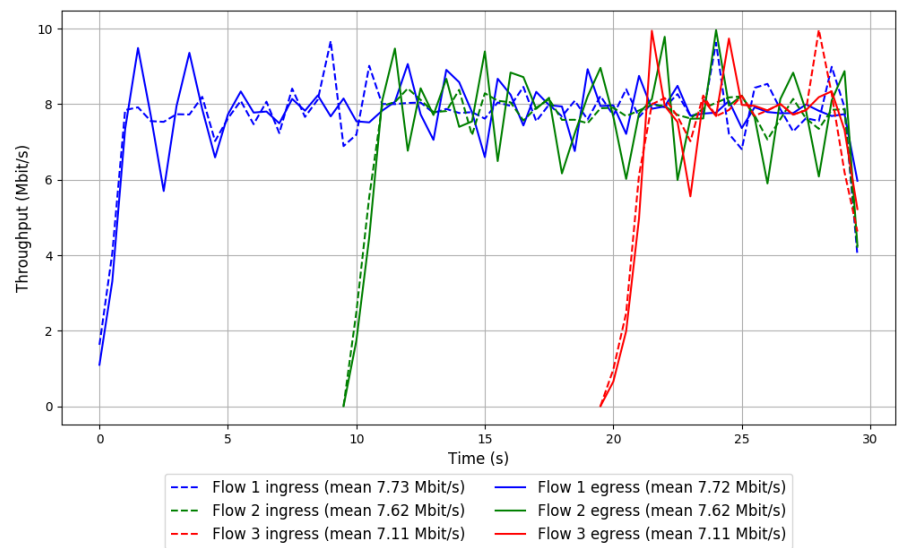
-- Flow 3:

Average throughput: 7.11 Mbit/s

95th percentile per-packet one-way delay: 54.384 ms

Loss rate: 0.00%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2017-08-31 21:27:28

End at: 2017-08-31 21:27:58

Below is generated by plot.py at 2017-09-01 01:17:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.49 Mbit/s

95th percentile per-packet one-way delay: 54.458 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 7.84 Mbit/s

95th percentile per-packet one-way delay: 54.489 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 7.74 Mbit/s

95th percentile per-packet one-way delay: 54.423 ms

Loss rate: 0.05%

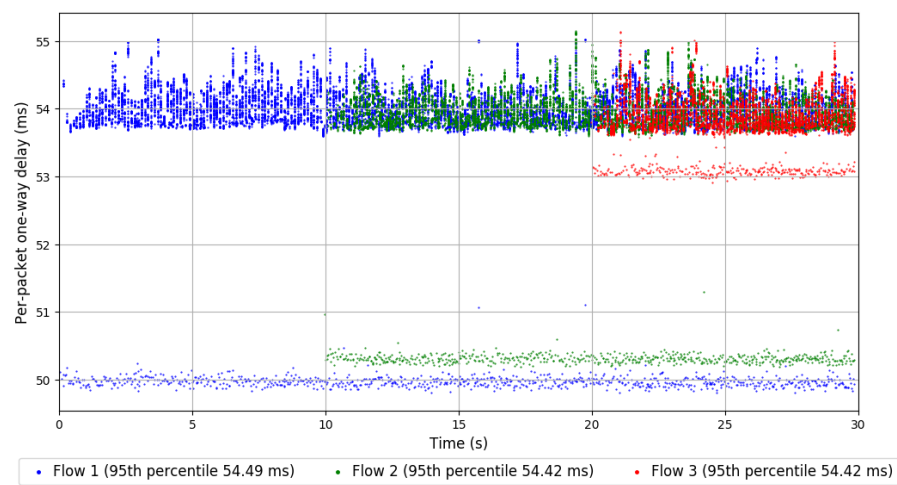
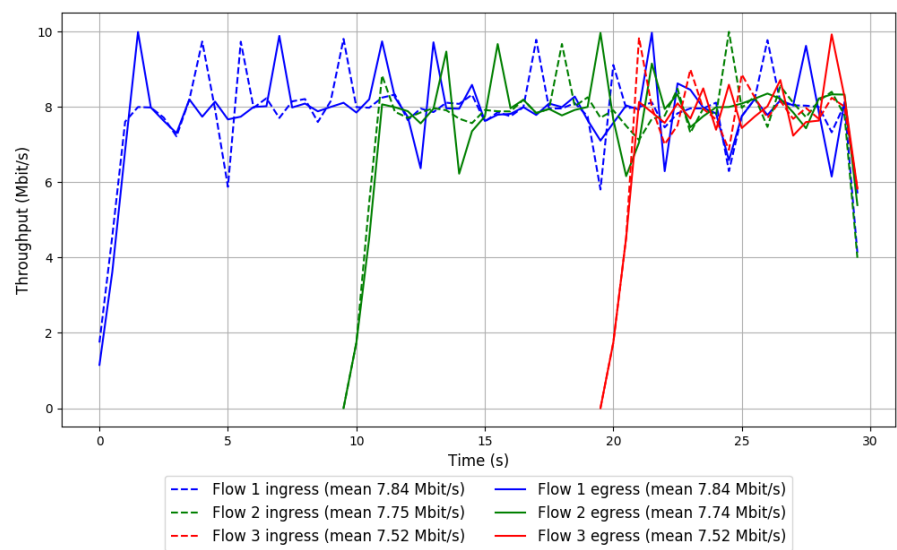
-- Flow 3:

Average throughput: 7.52 Mbit/s

95th percentile per-packet one-way delay: 54.417 ms

Loss rate: 0.00%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2017-08-31 21:39:32

End at: 2017-08-31 21:40:02

Below is generated by plot.py at 2017-09-01 01:17:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.33 Mbit/s

95th percentile per-packet one-way delay: 54.411 ms

Loss rate: 0.11%

-- Flow 1:

Average throughput: 7.77 Mbit/s

95th percentile per-packet one-way delay: 54.416 ms

Loss rate: 0.15%

-- Flow 2:

Average throughput: 7.60 Mbit/s

95th percentile per-packet one-way delay: 54.384 ms

Loss rate: 0.04%

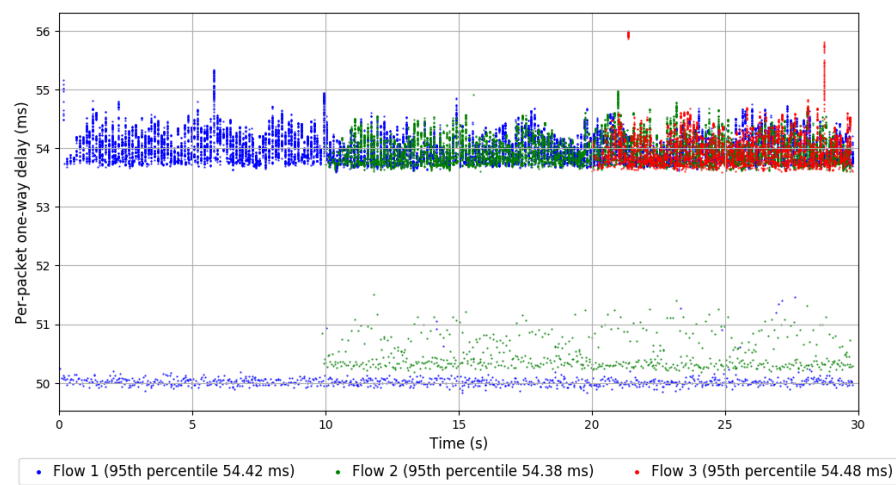
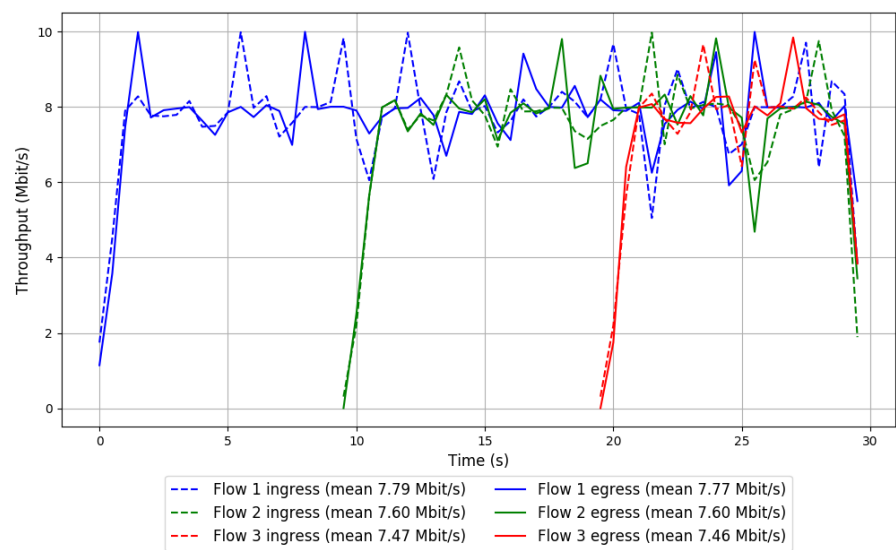
-- Flow 3:

Average throughput: 7.46 Mbit/s

95th percentile per-packet one-way delay: 54.485 ms

Loss rate: 0.11%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2017-08-31 21:51:29

End at: 2017-08-31 21:51:59

Below is generated by plot.py at 2017-09-01 01:17:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.33 Mbit/s

95th percentile per-packet one-way delay: 54.412 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 7.75 Mbit/s

95th percentile per-packet one-way delay: 54.397 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 7.80 Mbit/s

95th percentile per-packet one-way delay: 54.466 ms

Loss rate: 0.00%

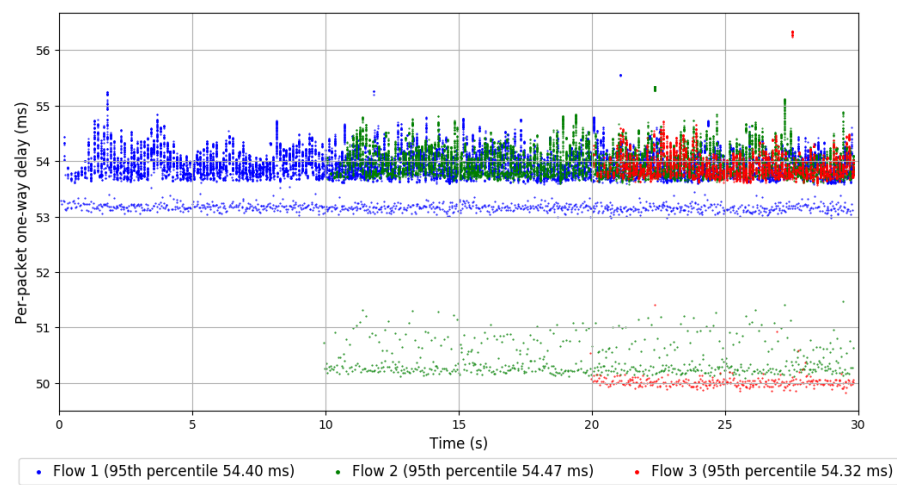
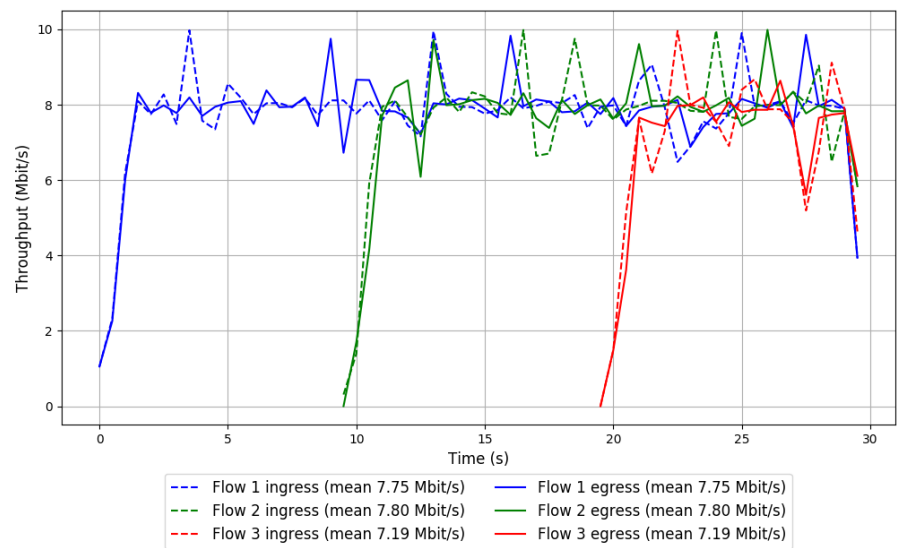
-- Flow 3:

Average throughput: 7.19 Mbit/s

95th percentile per-packet one-way delay: 54.324 ms

Loss rate: 0.00%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2017-08-31 22:03:23

End at: 2017-08-31 22:03:53

Below is generated by plot.py at 2017-09-01 01:17:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.45 Mbit/s

95th percentile per-packet one-way delay: 54.417 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 7.89 Mbit/s

95th percentile per-packet one-way delay: 54.443 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 7.62 Mbit/s

95th percentile per-packet one-way delay: 54.392 ms

Loss rate: 0.03%

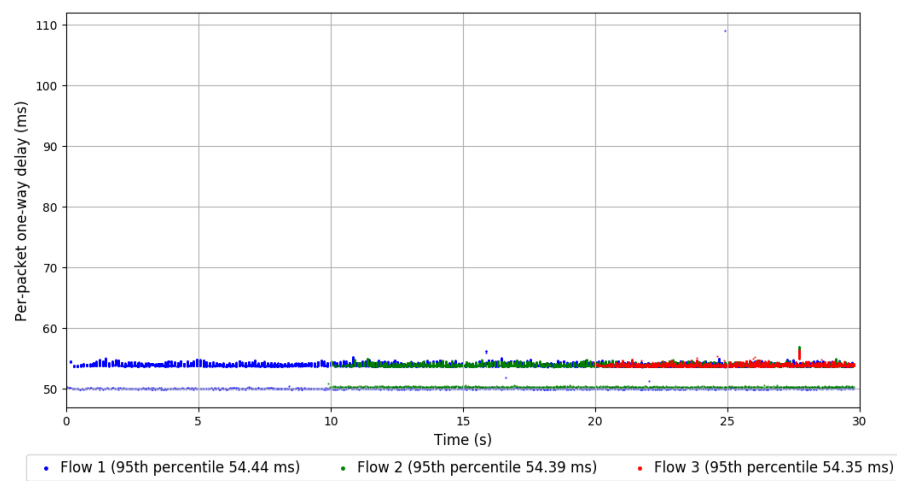
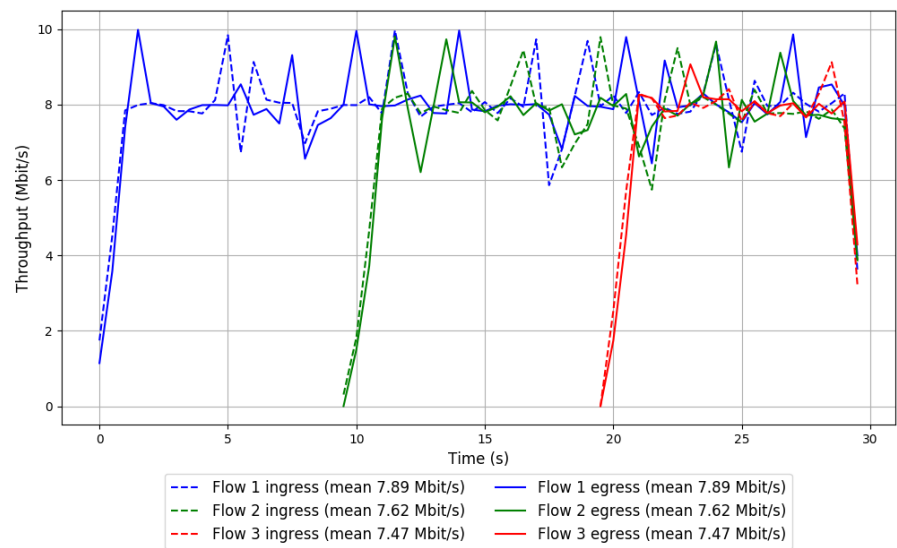
-- Flow 3:

Average throughput: 7.47 Mbit/s

95th percentile per-packet one-way delay: 54.352 ms

Loss rate: 0.00%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2017-08-31 22:15:15

End at: 2017-08-31 22:15:45

Below is generated by plot.py at 2017-09-01 01:17:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.14 Mbit/s

95th percentile per-packet one-way delay: 54.304 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 7.59 Mbit/s

95th percentile per-packet one-way delay: 54.269 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 7.61 Mbit/s

95th percentile per-packet one-way delay: 54.306 ms

Loss rate: 0.00%

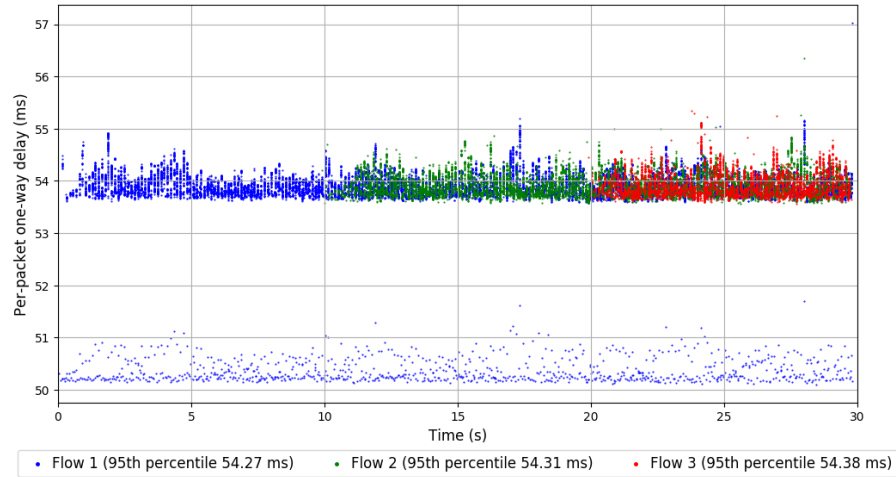
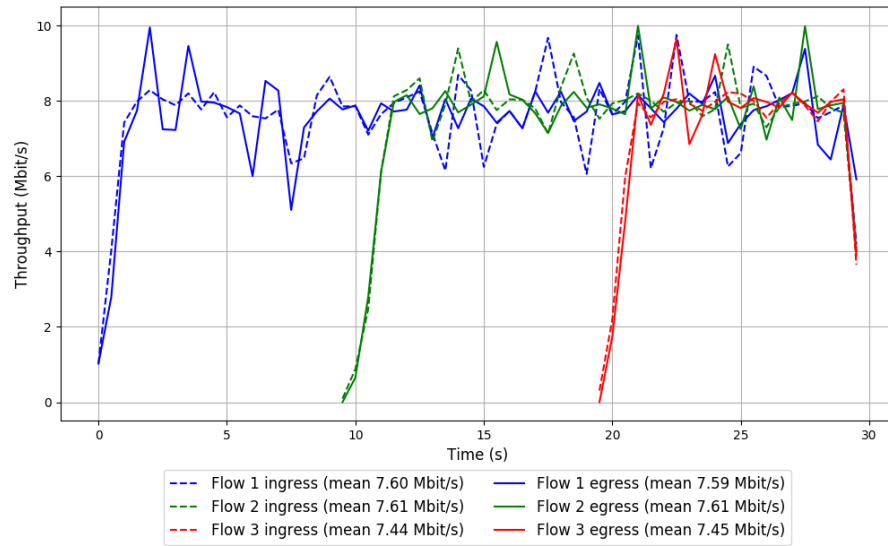
-- Flow 3:

Average throughput: 7.45 Mbit/s

95th percentile per-packet one-way delay: 54.385 ms

Loss rate: 0.02%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2017-08-31 22:27:23

End at: 2017-08-31 22:27:53

Below is generated by plot.py at 2017-09-01 01:17:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.33 Mbit/s

95th percentile per-packet one-way delay: 54.414 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 7.72 Mbit/s

95th percentile per-packet one-way delay: 54.405 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 7.74 Mbit/s

95th percentile per-packet one-way delay: 54.433 ms

Loss rate: 0.00%

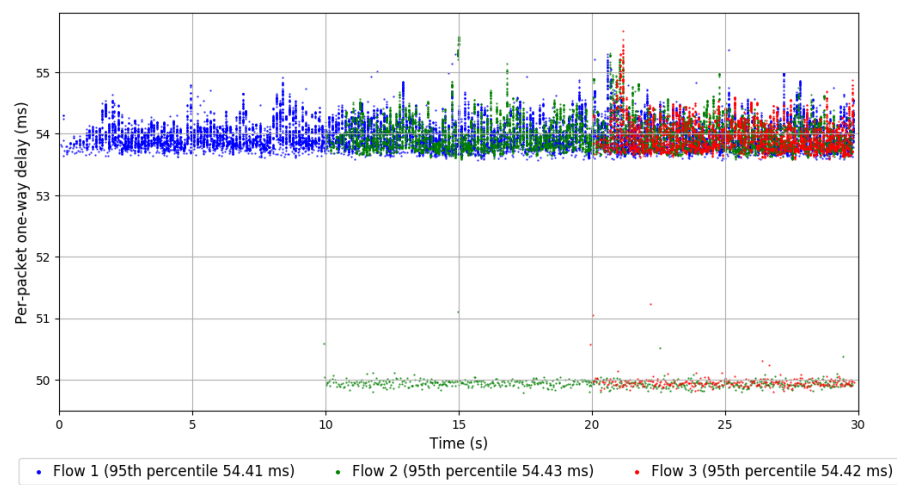
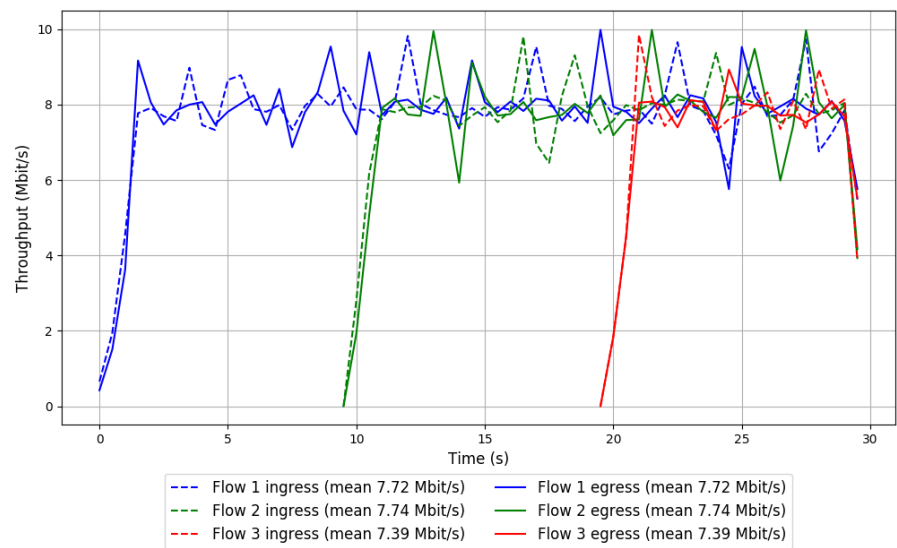
-- Flow 3:

Average throughput: 7.39 Mbit/s

95th percentile per-packet one-way delay: 54.417 ms

Loss rate: 0.00%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2017-08-31 22:39:24

End at: 2017-08-31 22:39:54

Below is generated by plot.py at 2017-09-01 01:17:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.12 Mbit/s

95th percentile per-packet one-way delay: 54.433 ms

Loss rate: 0.18%

-- Flow 1:

Average throughput: 7.67 Mbit/s

95th percentile per-packet one-way delay: 54.419 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 7.45 Mbit/s

95th percentile per-packet one-way delay: 54.452 ms

Loss rate: 0.47%

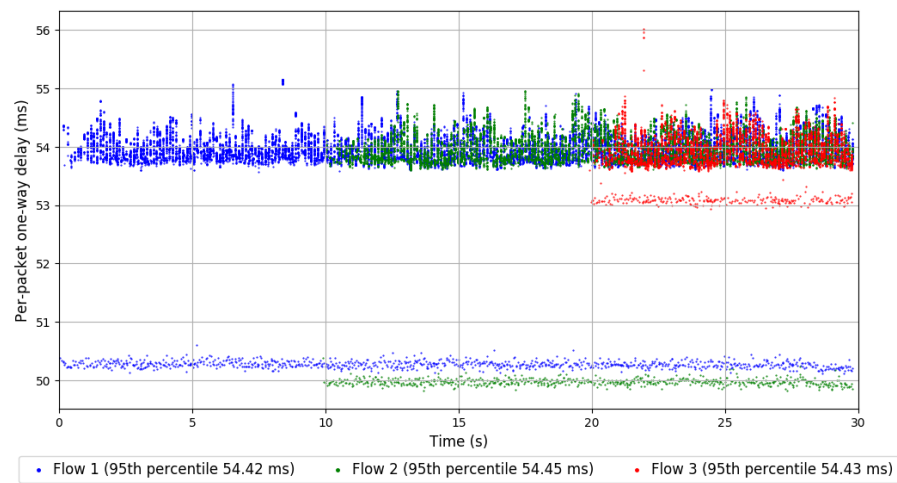
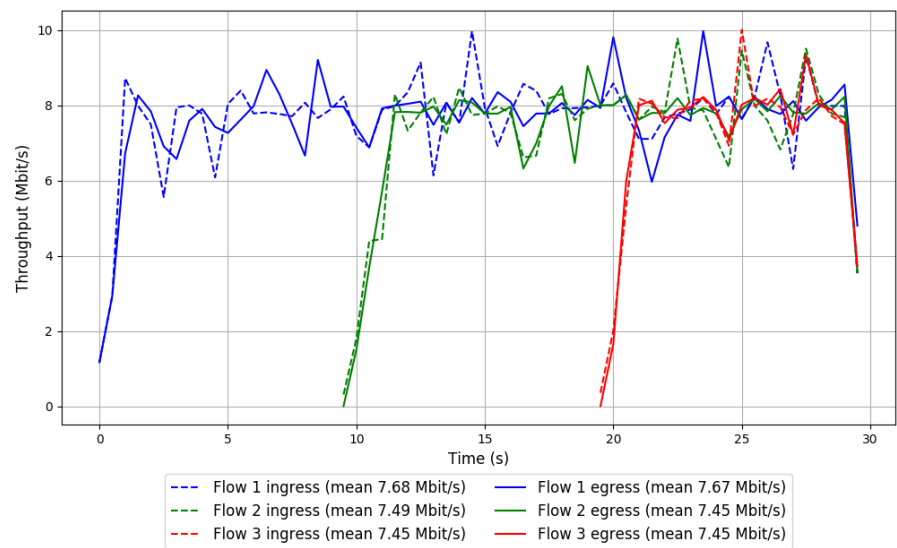
-- Flow 3:

Average throughput: 7.45 Mbit/s

95th percentile per-packet one-way delay: 54.430 ms

Loss rate: 0.00%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2017-08-31 22:51:12

End at: 2017-08-31 22:51:42

Below is generated by plot.py at 2017-09-01 01:17:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.10 Mbit/s

95th percentile per-packet one-way delay: 54.392 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 7.63 Mbit/s

95th percentile per-packet one-way delay: 54.367 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 7.57 Mbit/s

95th percentile per-packet one-way delay: 54.428 ms

Loss rate: 0.06%

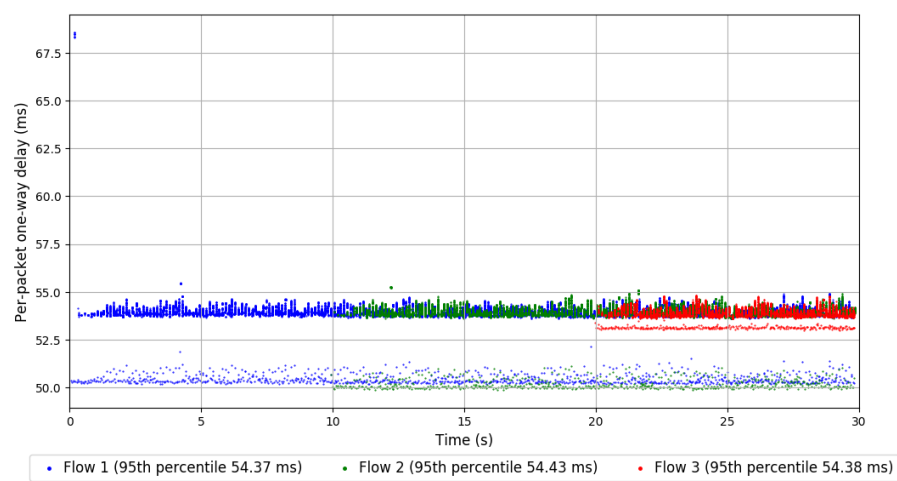
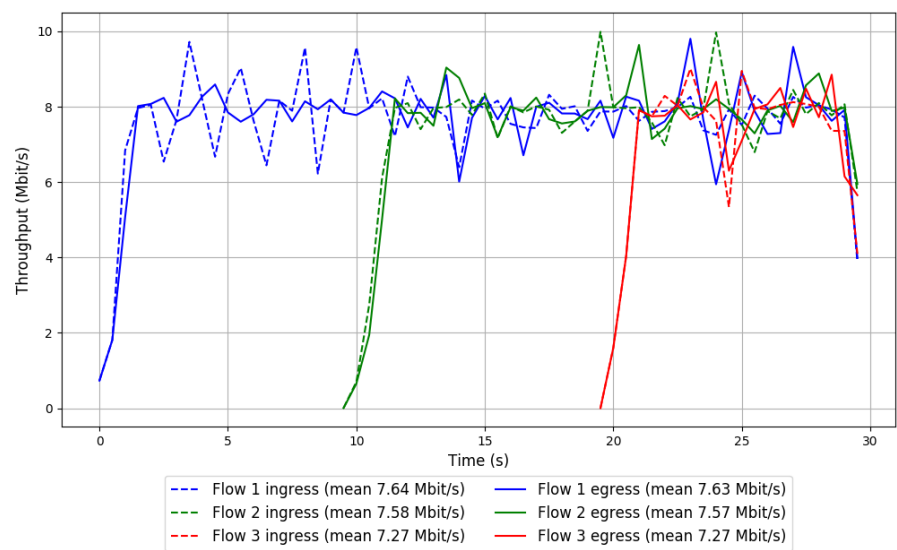
-- Flow 3:

Average throughput: 7.27 Mbit/s

95th percentile per-packet one-way delay: 54.381 ms

Loss rate: 0.00%

Run 10: Report of Sprout — Data Link

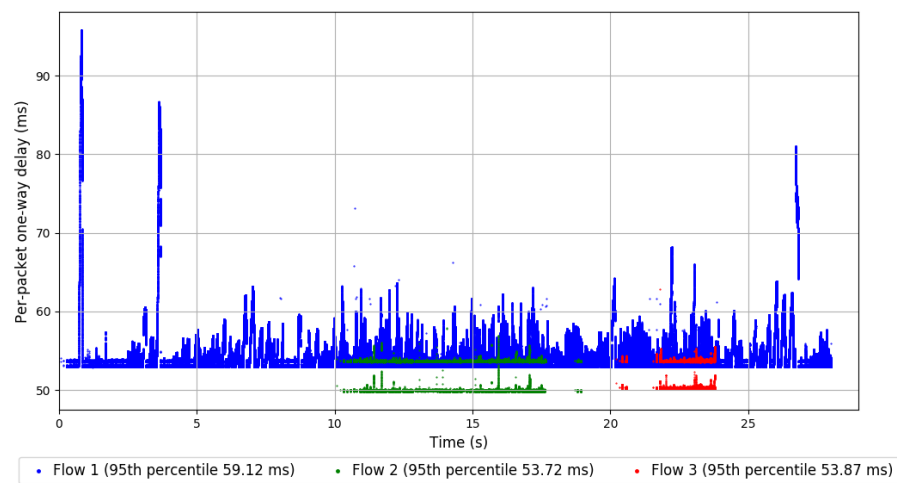
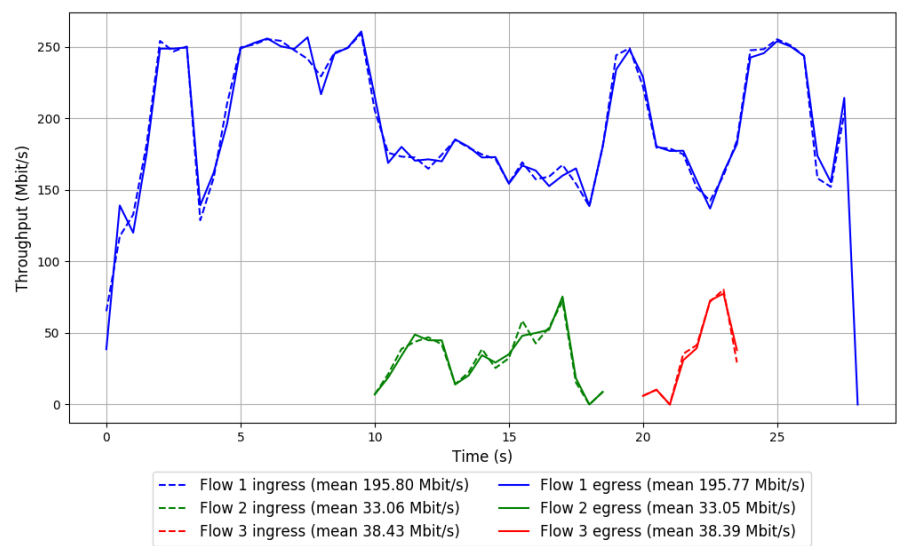


```
Run 1: Statistics of TaoVA-100x

Start at: 2017-08-31 21:08:21
End at: 2017-08-31 21:08:51

# Below is generated by plot.py at 2017-09-01 01:19:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 211.17 Mbit/s
95th percentile per-packet one-way delay: 58.891 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 195.77 Mbit/s
95th percentile per-packet one-way delay: 59.123 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 33.05 Mbit/s
95th percentile per-packet one-way delay: 53.719 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 38.39 Mbit/s
95th percentile per-packet one-way delay: 53.865 ms
Loss rate: 0.00%
```

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

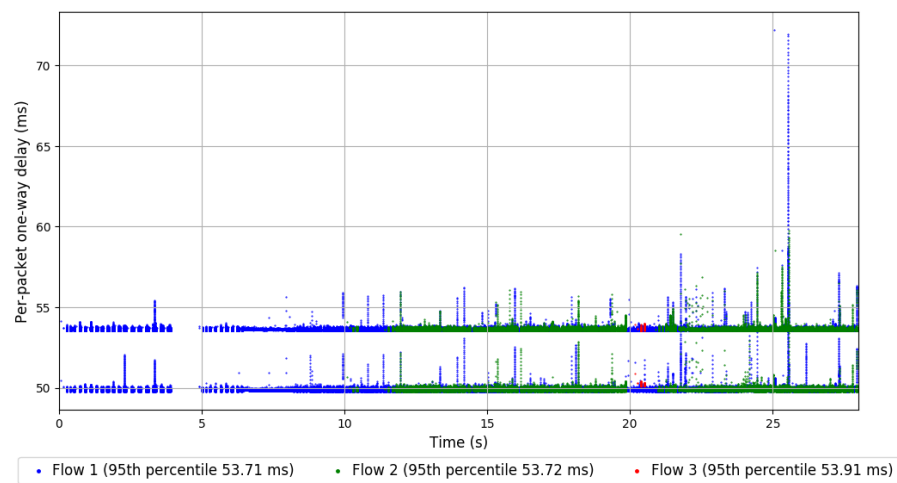
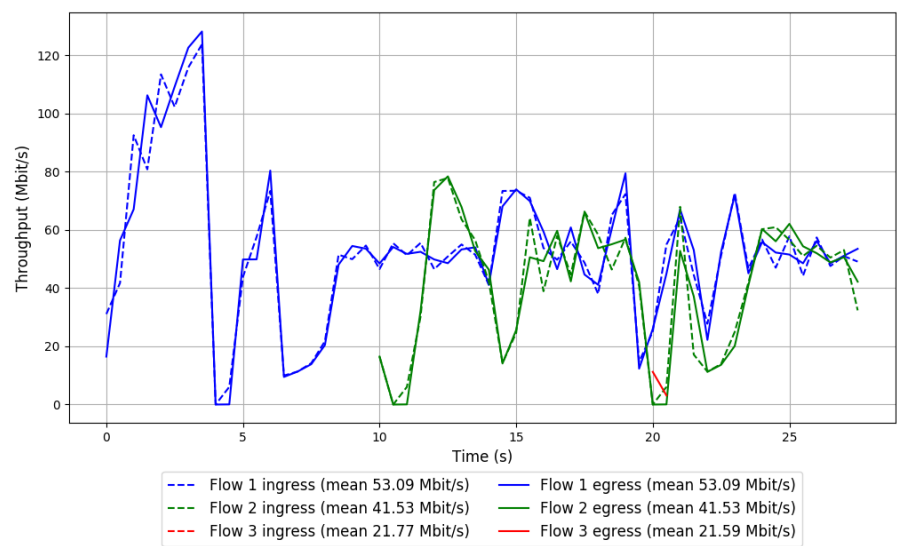


```
Run 2: Statistics of TaoVA-100x

Start at: 2017-08-31 21:20:14
End at: 2017-08-31 21:20:44

# Below is generated by plot.py at 2017-09-01 01:19:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 79.95 Mbit/s
95th percentile per-packet one-way delay: 53.711 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 53.09 Mbit/s
95th percentile per-packet one-way delay: 53.709 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 41.53 Mbit/s
95th percentile per-packet one-way delay: 53.715 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 21.59 Mbit/s
95th percentile per-packet one-way delay: 53.905 ms
Loss rate: 0.00%
```

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

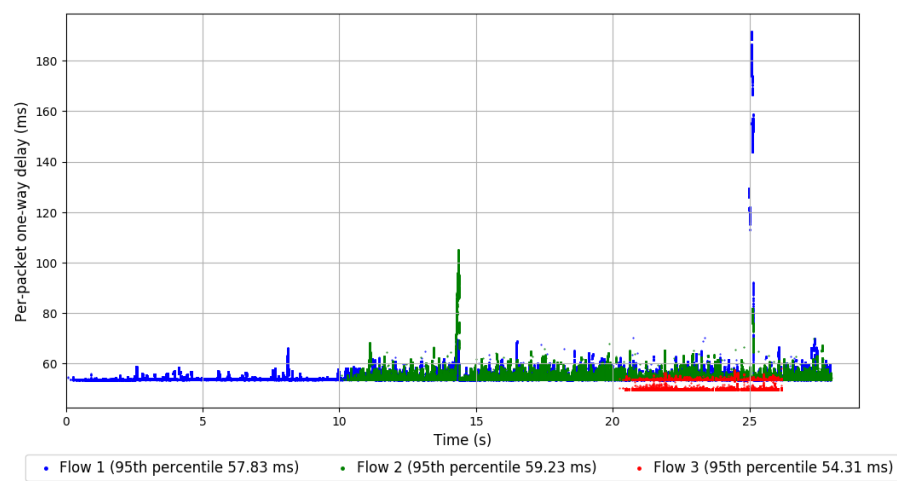
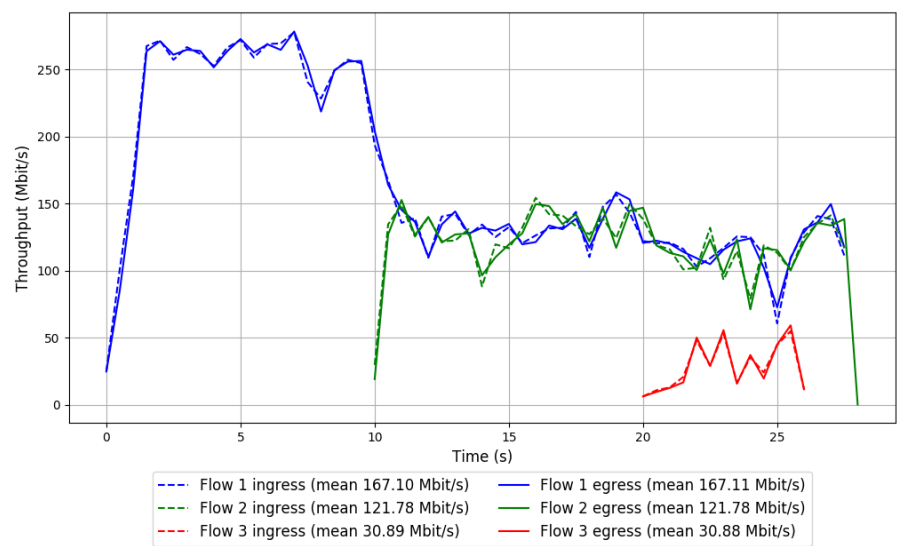


```
Run 3: Statistics of TaoVA-100x

Start at: 2017-08-31 21:32:10
End at: 2017-08-31 21:32:40

# Below is generated by plot.py at 2017-09-01 01:19:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 251.66 Mbit/s
95th percentile per-packet one-way delay: 58.188 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 167.11 Mbit/s
95th percentile per-packet one-way delay: 57.826 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 121.78 Mbit/s
95th percentile per-packet one-way delay: 59.229 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 30.88 Mbit/s
95th percentile per-packet one-way delay: 54.308 ms
Loss rate: 0.00%
```


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

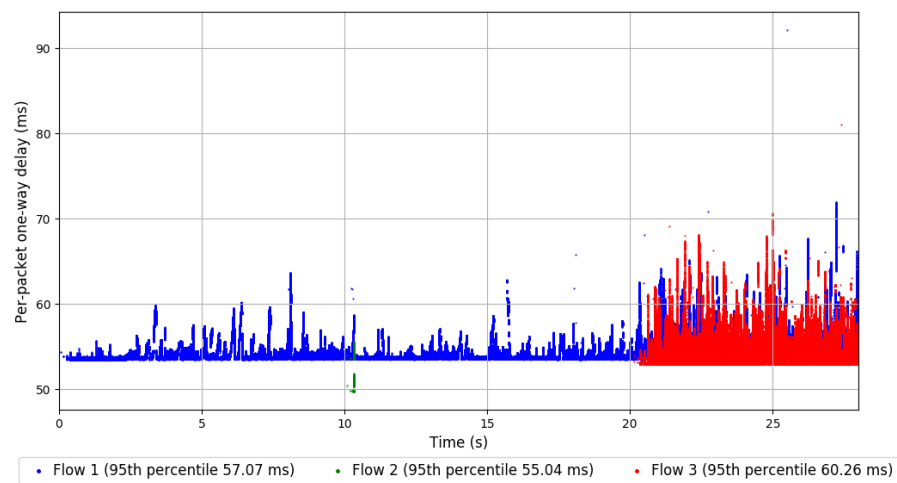
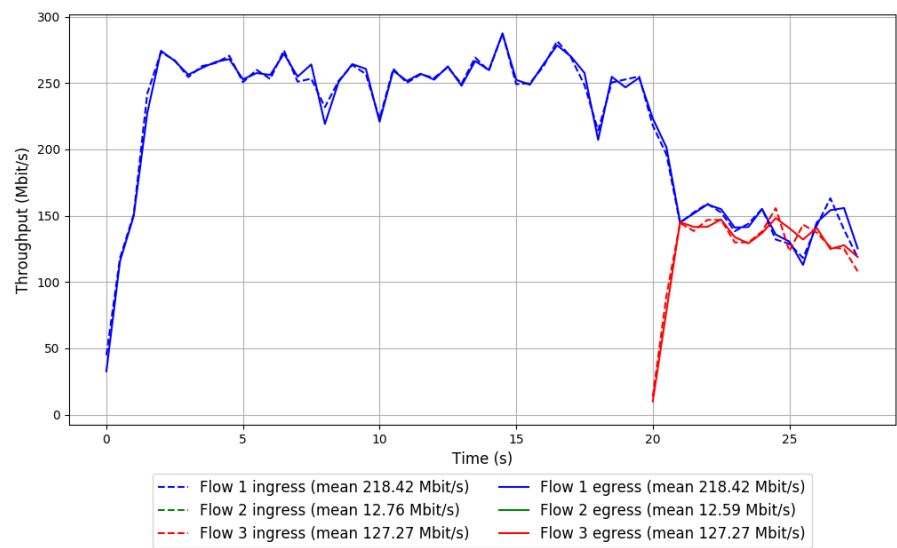


```
Run 4: Statistics of TaoVA-100x

Start at: 2017-08-31 21:44:09
End at: 2017-08-31 21:44:39

# Below is generated by plot.py at 2017-09-01 01:20:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 254.27 Mbit/s
95th percentile per-packet one-way delay: 57.746 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 218.42 Mbit/s
95th percentile per-packet one-way delay: 57.071 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 12.59 Mbit/s
95th percentile per-packet one-way delay: 55.044 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 127.27 Mbit/s
95th percentile per-packet one-way delay: 60.263 ms
Loss rate: 0.00%
```

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

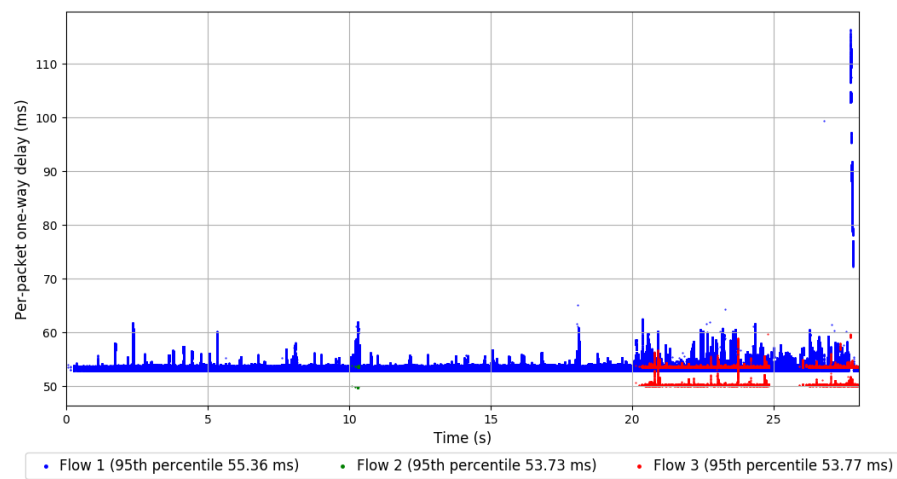
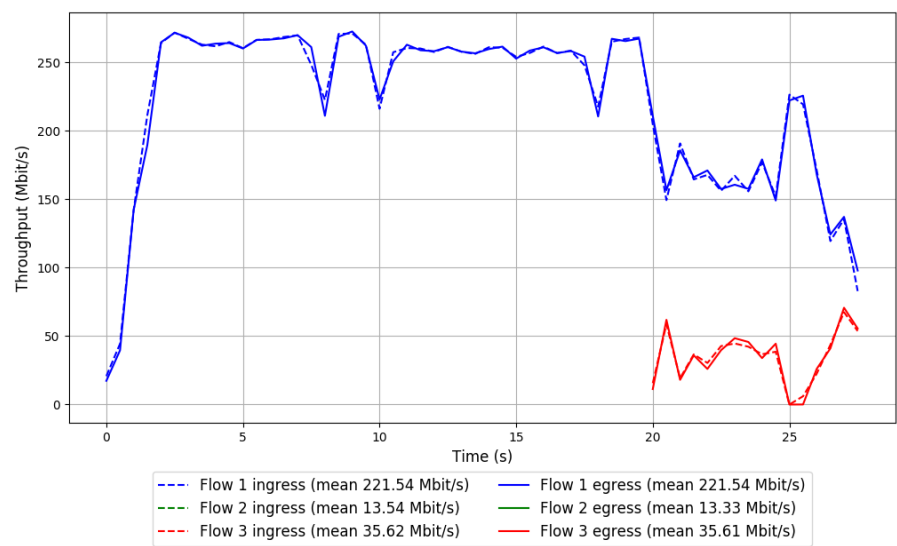


```
Run 5: Statistics of TaoVA-100x

Start at: 2017-08-31 21:56:03
End at: 2017-08-31 21:56:34

# Below is generated by plot.py at 2017-09-01 01:21:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 231.67 Mbit/s
95th percentile per-packet one-way delay: 55.285 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 221.54 Mbit/s
95th percentile per-packet one-way delay: 55.357 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 13.33 Mbit/s
95th percentile per-packet one-way delay: 53.731 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 35.61 Mbit/s
95th percentile per-packet one-way delay: 53.768 ms
Loss rate: 0.00%
```

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



Run 6: Statistics of TaoVA-100x

Start at: 2017-08-31 22:07:59

End at: 2017-08-31 22:08:29

Below is generated by plot.py at 2017-09-01 01:21:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 128.46 Mbit/s

95th percentile per-packet one-way delay: 53.724 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 118.31 Mbit/s

95th percentile per-packet one-way delay: 53.694 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 95.99 Mbit/s

95th percentile per-packet one-way delay: 53.692 ms

Loss rate: 0.00%

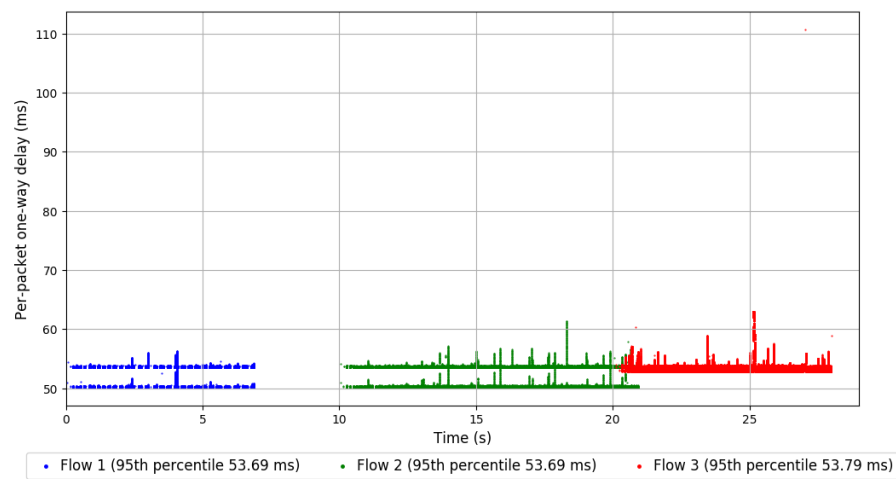
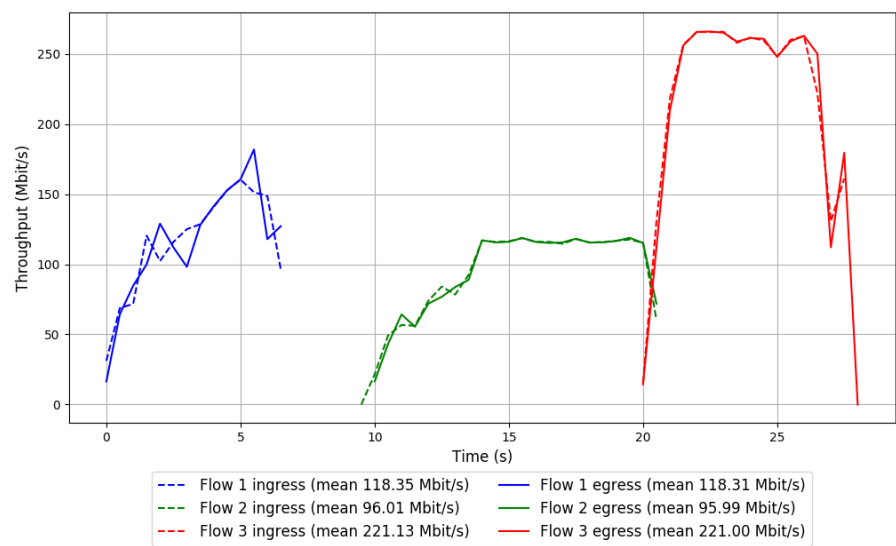
-- Flow 3:

Average throughput: 221.00 Mbit/s

95th percentile per-packet one-way delay: 53.792 ms

Loss rate: 0.01%

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

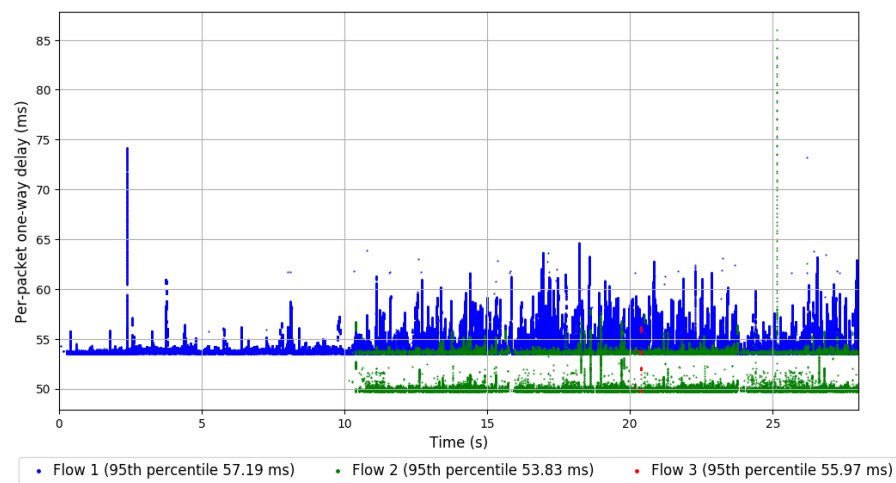
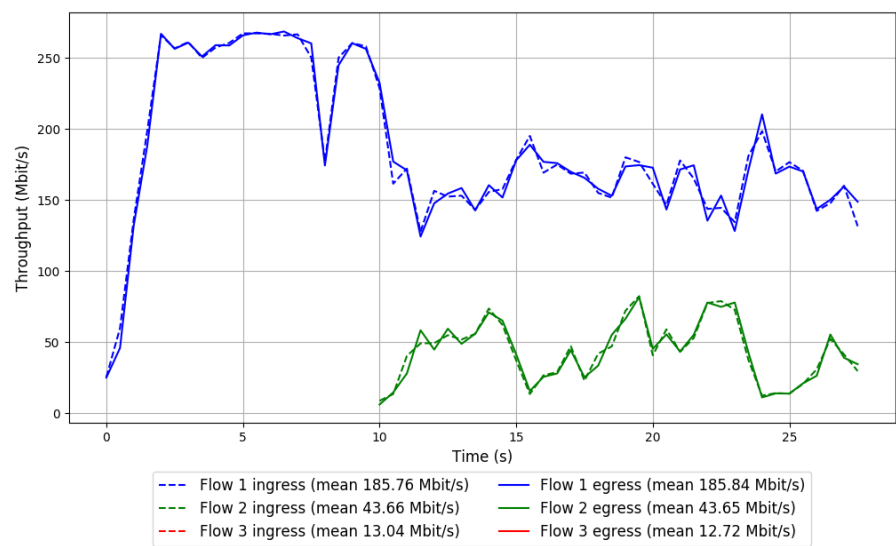


```
Run 7: Statistics of TaoVA-100x

Start at: 2017-08-31 22:20:08
End at: 2017-08-31 22:20:38

# Below is generated by plot.py at 2017-09-01 01:22:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 213.79 Mbit/s
95th percentile per-packet one-way delay: 56.938 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 185.84 Mbit/s
95th percentile per-packet one-way delay: 57.192 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 43.65 Mbit/s
95th percentile per-packet one-way delay: 53.833 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 12.72 Mbit/s
95th percentile per-packet one-way delay: 55.966 ms
Loss rate: 0.00%
```


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

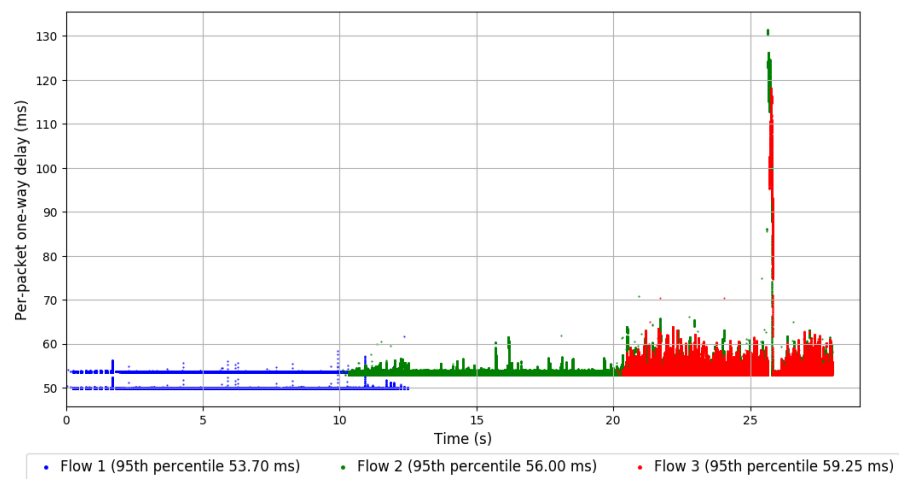
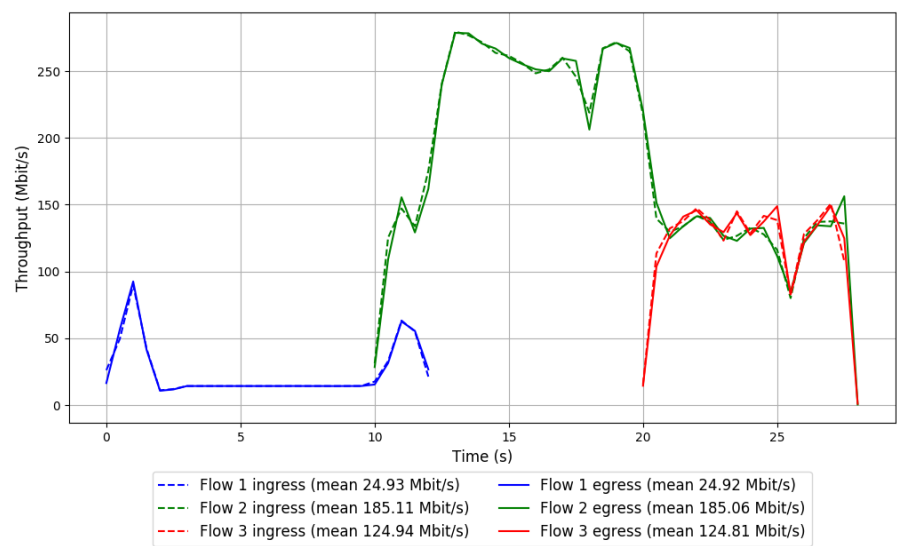


```
Run 8: Statistics of TaoVA-100x

Start at: 2017-08-31 22:32:00
End at: 2017-08-31 22:32:30

# Below is generated by plot.py at 2017-09-01 01:22:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 164.87 Mbit/s
95th percentile per-packet one-way delay: 57.114 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 24.92 Mbit/s
95th percentile per-packet one-way delay: 53.705 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 185.06 Mbit/s
95th percentile per-packet one-way delay: 55.997 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 124.81 Mbit/s
95th percentile per-packet one-way delay: 59.250 ms
Loss rate: 0.05%
```

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

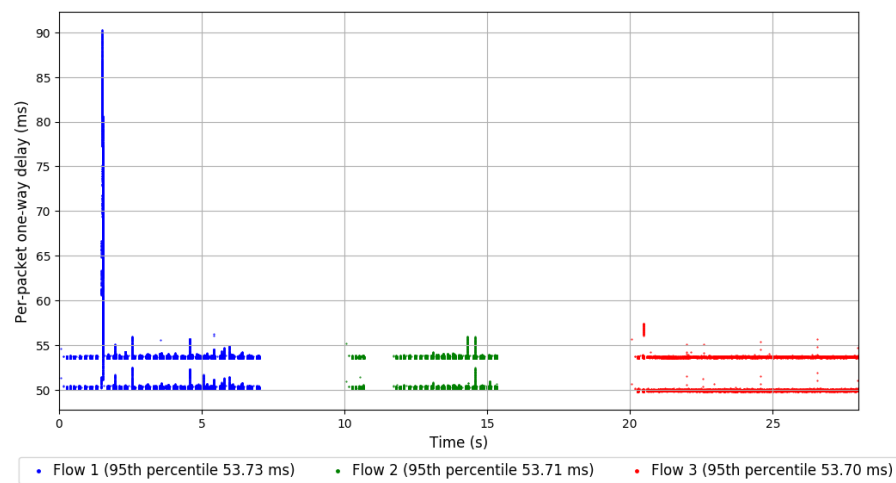
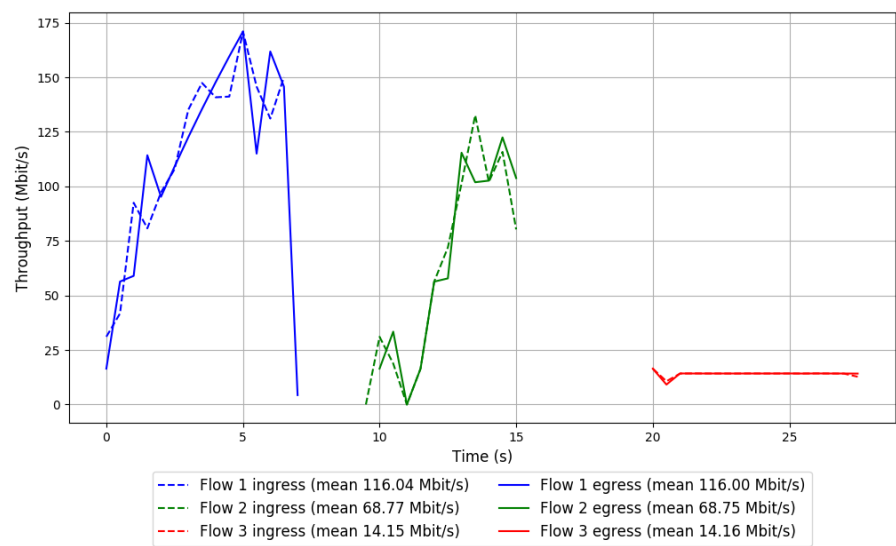


```
Run 9: Statistics of TaoVA-100x

Start at: 2017-08-31 22:44:00
End at: 2017-08-31 22:44:30

# Below is generated by plot.py at 2017-09-01 01:22:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 45.90 Mbit/s
95th percentile per-packet one-way delay: 53.717 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 116.00 Mbit/s
95th percentile per-packet one-way delay: 53.726 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 68.75 Mbit/s
95th percentile per-packet one-way delay: 53.712 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 14.16 Mbit/s
95th percentile per-packet one-way delay: 53.699 ms
Loss rate: 0.01%
```

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

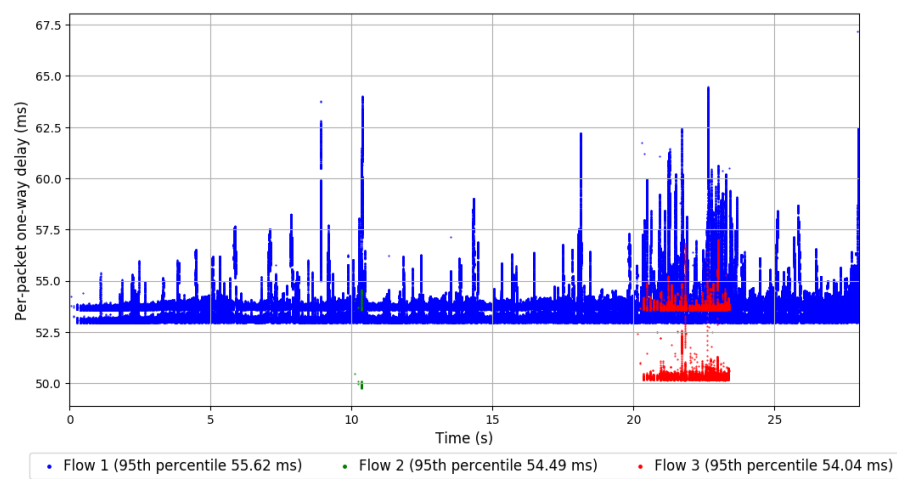
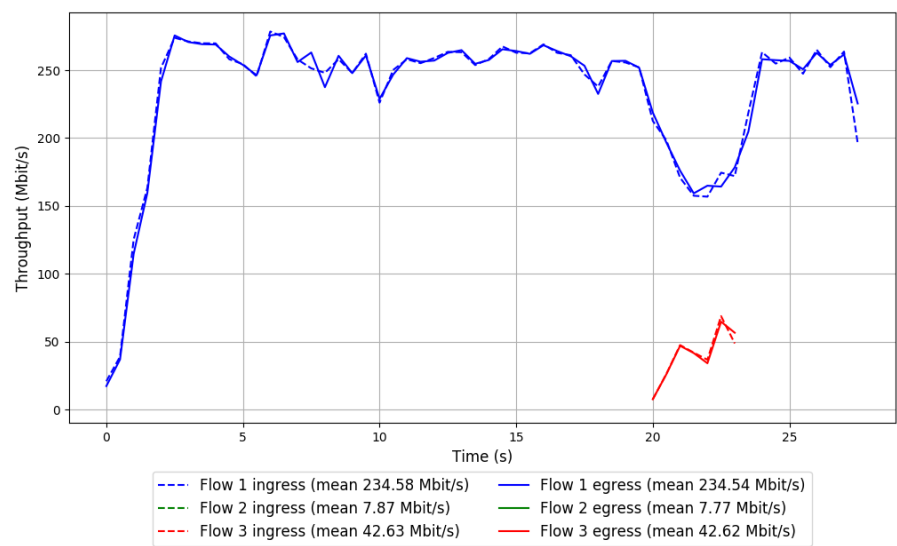


```
Run 10: Statistics of TaoVA-100x

Start at: 2017-08-31 22:55:54
End at: 2017-08-31 22:56:24

# Below is generated by plot.py at 2017-09-01 01:23:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 239.57 Mbit/s
95th percentile per-packet one-way delay: 55.588 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 234.54 Mbit/s
95th percentile per-packet one-way delay: 55.625 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 7.77 Mbit/s
95th percentile per-packet one-way delay: 54.491 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 42.62 Mbit/s
95th percentile per-packet one-way delay: 54.041 ms
Loss rate: 0.00%
```

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

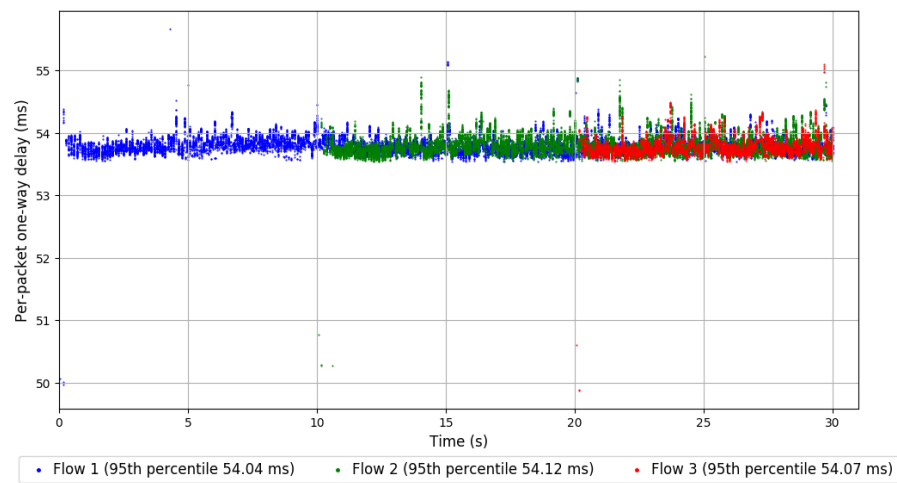
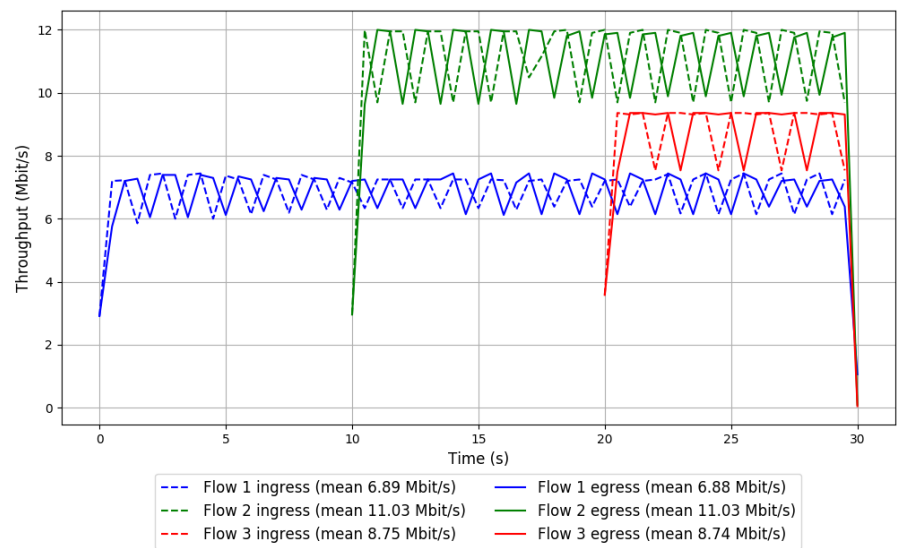


```
Run 1: Statistics of TCP Vegas

Start at: 2017-08-31 21:05:16
End at: 2017-08-31 21:05:46

# Below is generated by plot.py at 2017-09-01 01:23:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 17.13 Mbit/s
95th percentile per-packet one-way delay: 54.079 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 6.88 Mbit/s
95th percentile per-packet one-way delay: 54.037 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 11.03 Mbit/s
95th percentile per-packet one-way delay: 54.123 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 8.74 Mbit/s
95th percentile per-packet one-way delay: 54.066 ms
Loss rate: 0.00%
```


Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2017-08-31 21:17:05

End at: 2017-08-31 21:17:35

Below is generated by plot.py at 2017-09-01 01:23:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 102.95 Mbit/s

95th percentile per-packet one-way delay: 63.576 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 7.56 Mbit/s

95th percentile per-packet one-way delay: 57.853 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 71.56 Mbit/s

95th percentile per-packet one-way delay: 59.411 ms

Loss rate: 0.00%

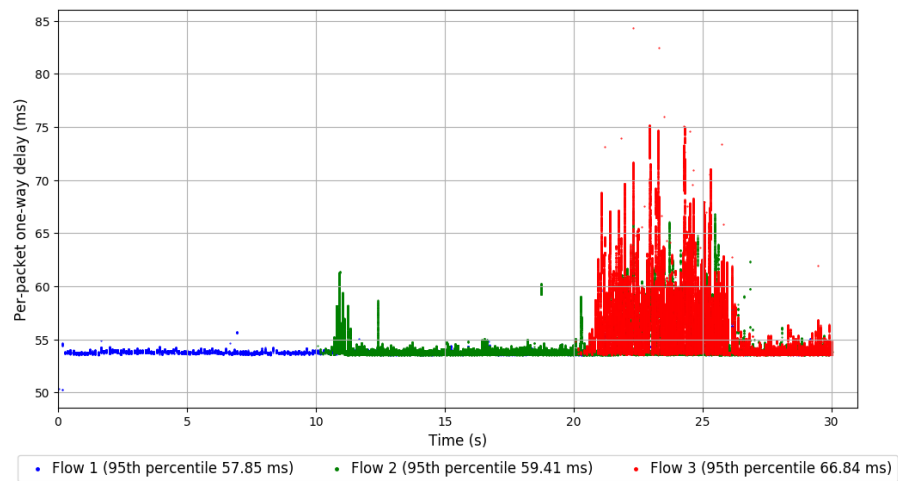
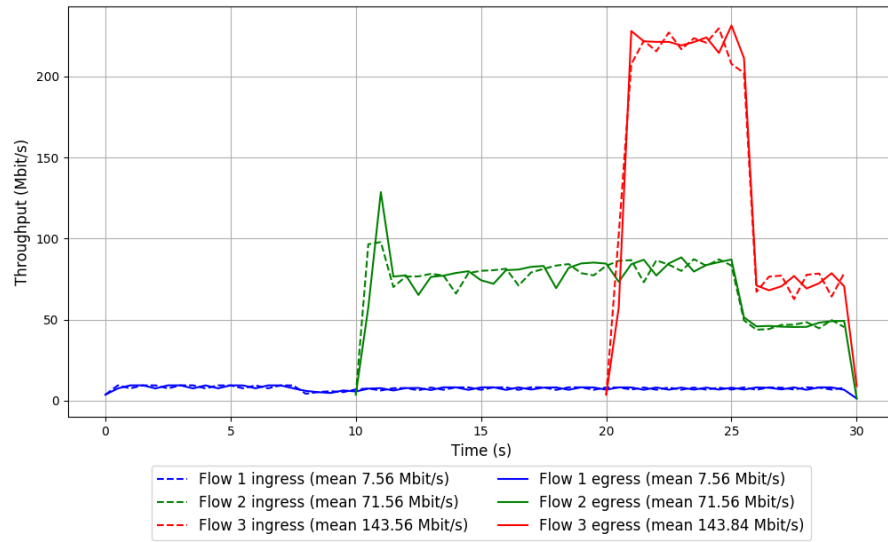
-- Flow 3:

Average throughput: 143.84 Mbit/s

95th percentile per-packet one-way delay: 66.845 ms

Loss rate: 0.00%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2017-08-31 21:29:00

End at: 2017-08-31 21:29:30

Below is generated by plot.py at 2017-09-01 01:23:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 115.63 Mbit/s

95th percentile per-packet one-way delay: 57.002 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 8.59 Mbit/s

95th percentile per-packet one-way delay: 54.307 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 73.70 Mbit/s

95th percentile per-packet one-way delay: 55.374 ms

Loss rate: 0.00%

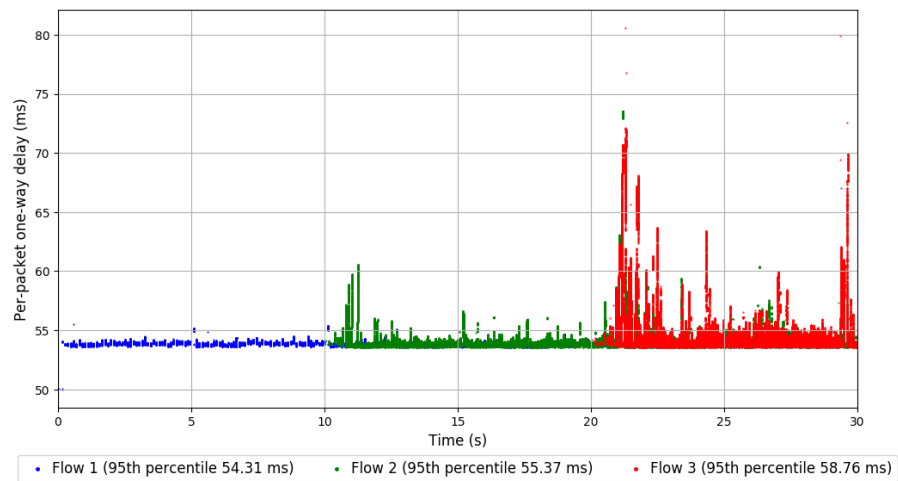
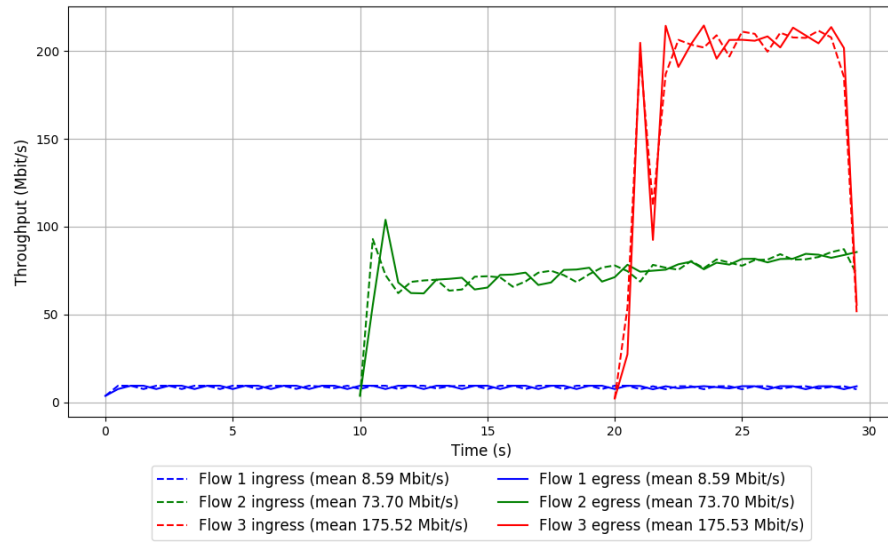
-- Flow 3:

Average throughput: 175.53 Mbit/s

95th percentile per-packet one-way delay: 58.758 ms

Loss rate: 0.00%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2017-08-31 21:41:01

End at: 2017-08-31 21:41:31

Below is generated by plot.py at 2017-09-01 01:23:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 74.54 Mbit/s

95th percentile per-packet one-way delay: 60.067 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 6.80 Mbit/s

95th percentile per-packet one-way delay: 54.597 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 55.88 Mbit/s

95th percentile per-packet one-way delay: 56.804 ms

Loss rate: 0.01%

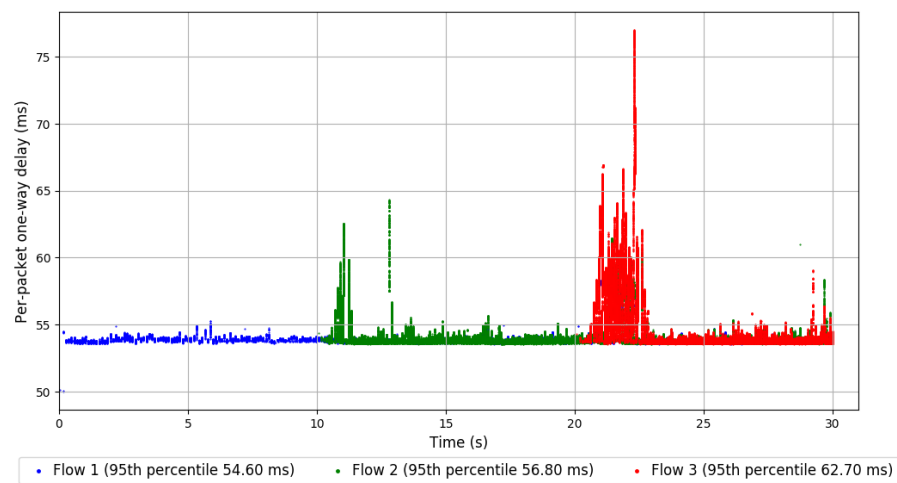
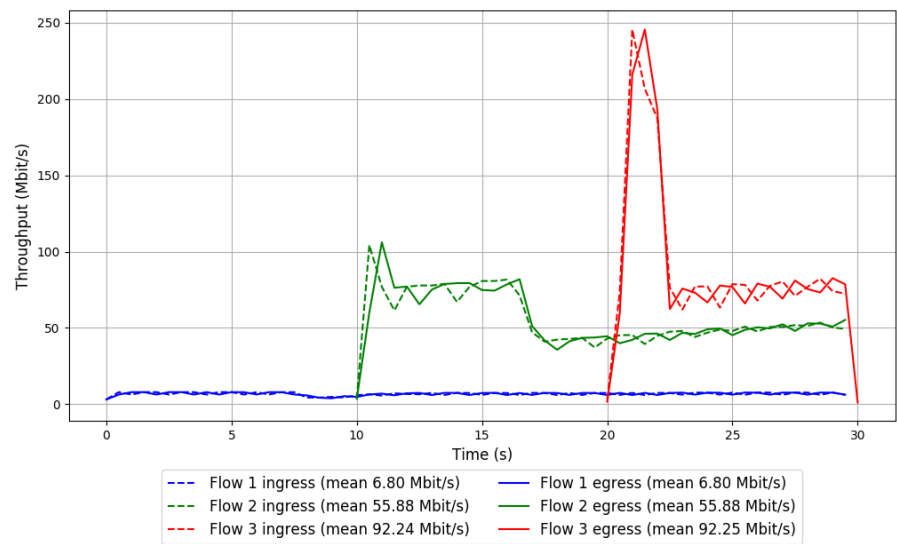
-- Flow 3:

Average throughput: 92.25 Mbit/s

95th percentile per-packet one-way delay: 62.697 ms

Loss rate: 0.01%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2017-08-31 21:52:59

End at: 2017-08-31 21:53:29

Below is generated by plot.py at 2017-09-01 01:23:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 26.85 Mbit/s

95th percentile per-packet one-way delay: 54.268 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 7.30 Mbit/s

95th percentile per-packet one-way delay: 54.047 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 22.18 Mbit/s

95th percentile per-packet one-way delay: 54.422 ms

Loss rate: 0.01%

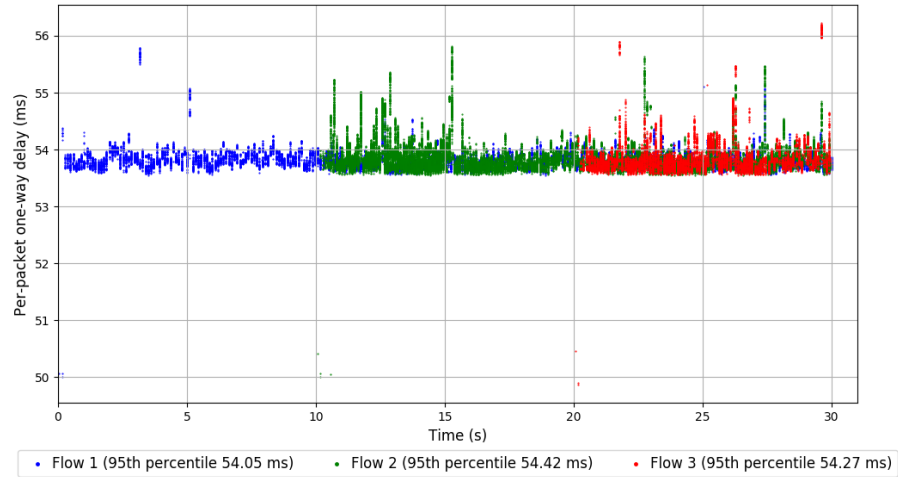
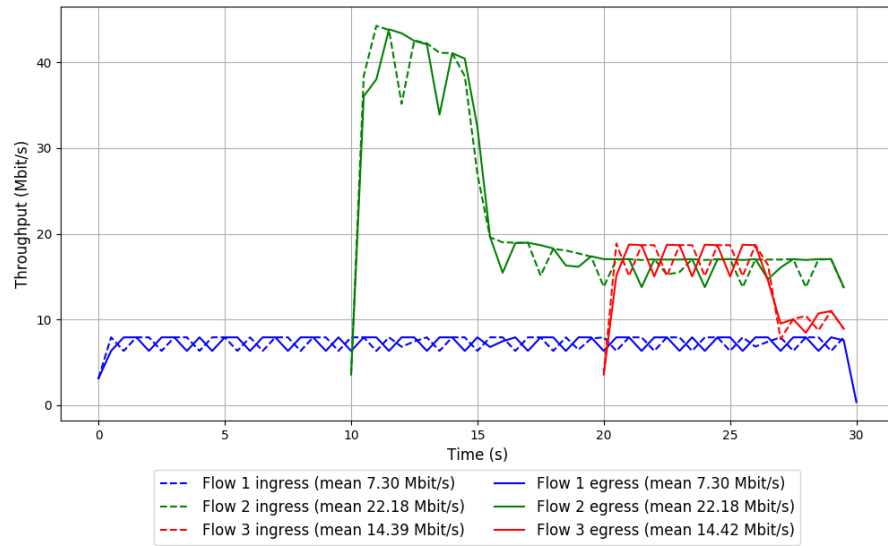
-- Flow 3:

Average throughput: 14.42 Mbit/s

95th percentile per-packet one-way delay: 54.274 ms

Loss rate: 0.02%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2017-08-31 22:04:54

End at: 2017-08-31 22:05:24

Below is generated by plot.py at 2017-09-01 01:23:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 19.51 Mbit/s

95th percentile per-packet one-way delay: 54.093 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 11.00 Mbit/s

95th percentile per-packet one-way delay: 54.068 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 8.58 Mbit/s

95th percentile per-packet one-way delay: 54.112 ms

Loss rate: 0.00%

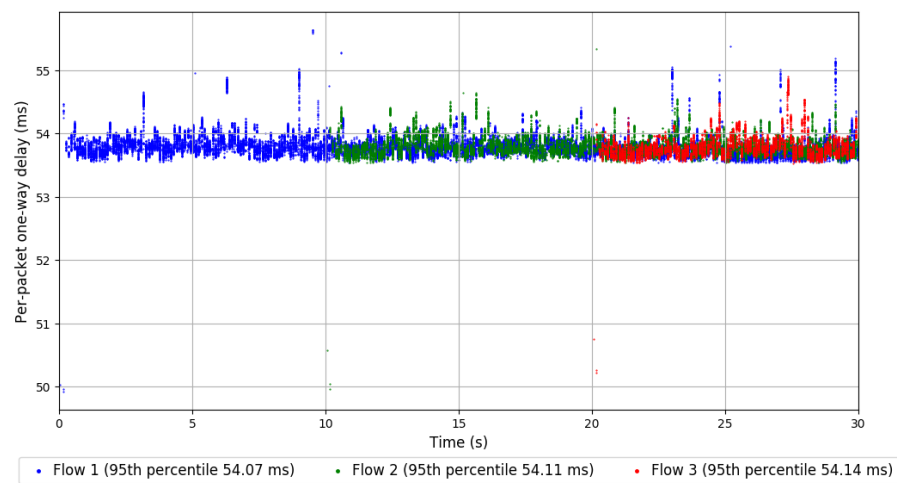
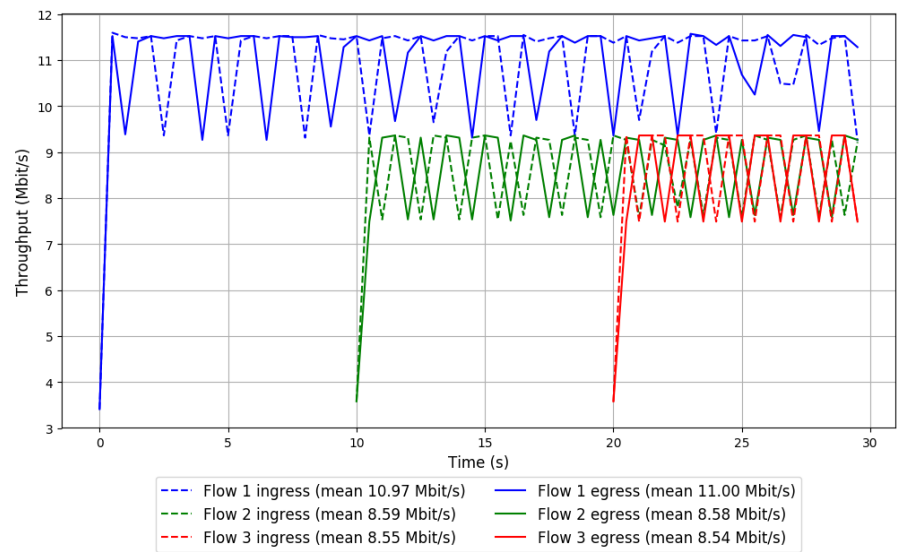
-- Flow 3:

Average throughput: 8.54 Mbit/s

95th percentile per-packet one-way delay: 54.137 ms

Loss rate: 0.00%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2017-08-31 22:16:45

End at: 2017-08-31 22:17:15

Below is generated by plot.py at 2017-09-01 01:23:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 79.61 Mbit/s

95th percentile per-packet one-way delay: 54.469 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 7.25 Mbit/s

95th percentile per-packet one-way delay: 54.174 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 104.46 Mbit/s

95th percentile per-packet one-way delay: 54.541 ms

Loss rate: 0.01%

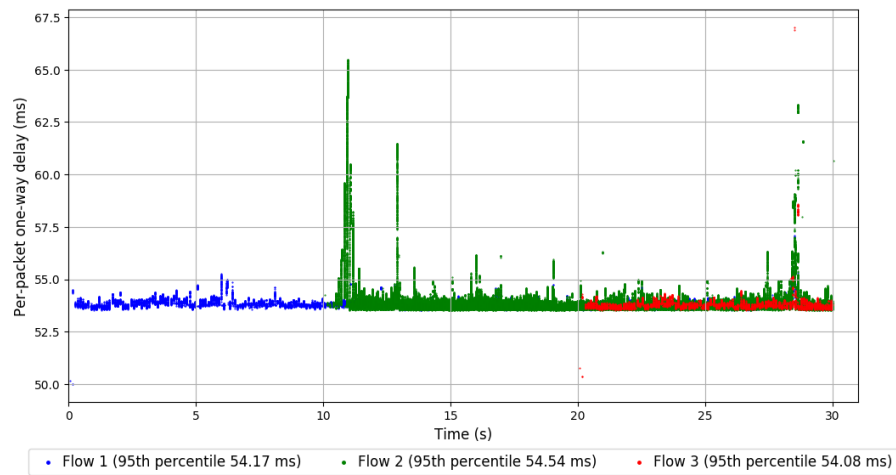
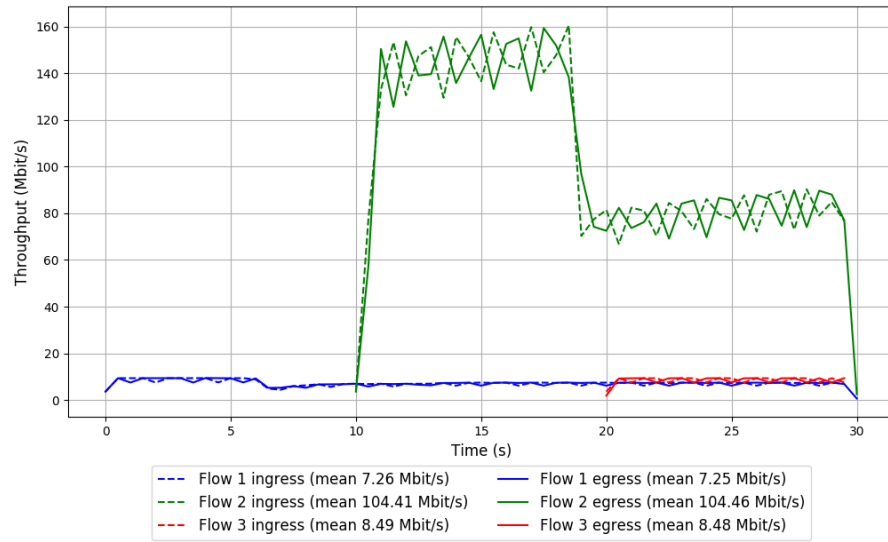
-- Flow 3:

Average throughput: 8.48 Mbit/s

95th percentile per-packet one-way delay: 54.079 ms

Loss rate: 0.00%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2017-08-31 22:28:54

End at: 2017-08-31 22:29:24

Below is generated by plot.py at 2017-09-01 01:23:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 72.72 Mbit/s

95th percentile per-packet one-way delay: 54.702 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 45.01 Mbit/s

95th percentile per-packet one-way delay: 54.624 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 8.59 Mbit/s

95th percentile per-packet one-way delay: 54.143 ms

Loss rate: 0.00%

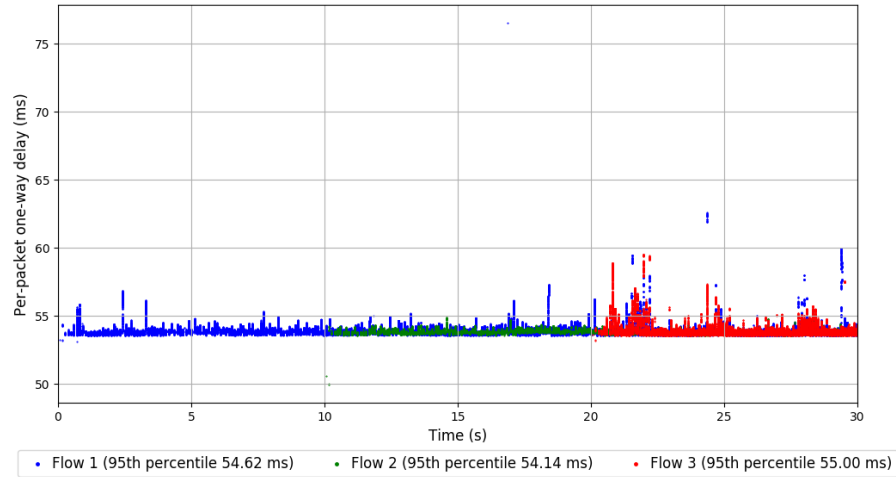
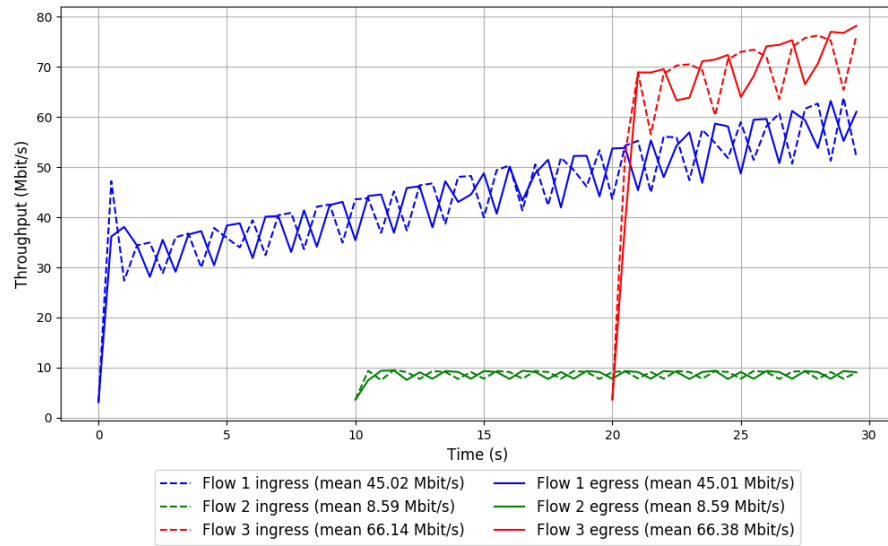
-- Flow 3:

Average throughput: 66.38 Mbit/s

95th percentile per-packet one-way delay: 55.001 ms

Loss rate: 0.00%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2017-08-31 22:40:54

End at: 2017-08-31 22:41:24

Below is generated by plot.py at 2017-09-01 01:24:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 45.43 Mbit/s

95th percentile per-packet one-way delay: 54.381 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 8.57 Mbit/s

95th percentile per-packet one-way delay: 54.154 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 51.15 Mbit/s

95th percentile per-packet one-way delay: 54.496 ms

Loss rate: 0.01%

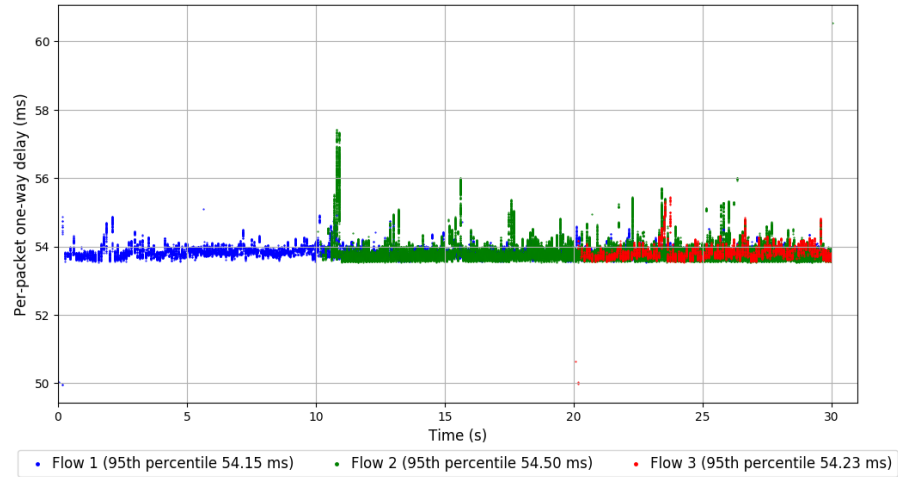
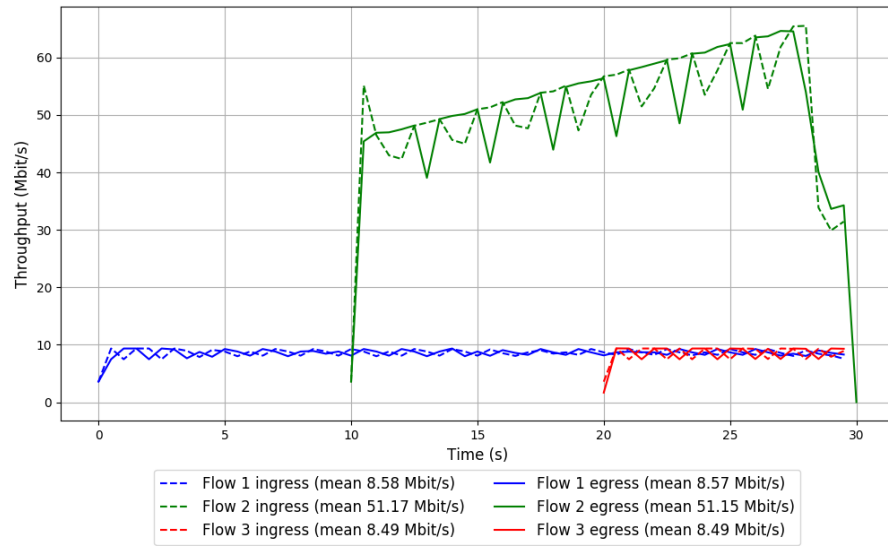
-- Flow 3:

Average throughput: 8.49 Mbit/s

95th percentile per-packet one-way delay: 54.232 ms

Loss rate: 0.00%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2017-08-31 22:52:43

End at: 2017-08-31 22:53:13

Below is generated by plot.py at 2017-09-01 01:24:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 135.06 Mbit/s

95th percentile per-packet one-way delay: 55.043 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 82.54 Mbit/s

95th percentile per-packet one-way delay: 54.936 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 8.64 Mbit/s

95th percentile per-packet one-way delay: 54.281 ms

Loss rate: 0.00%

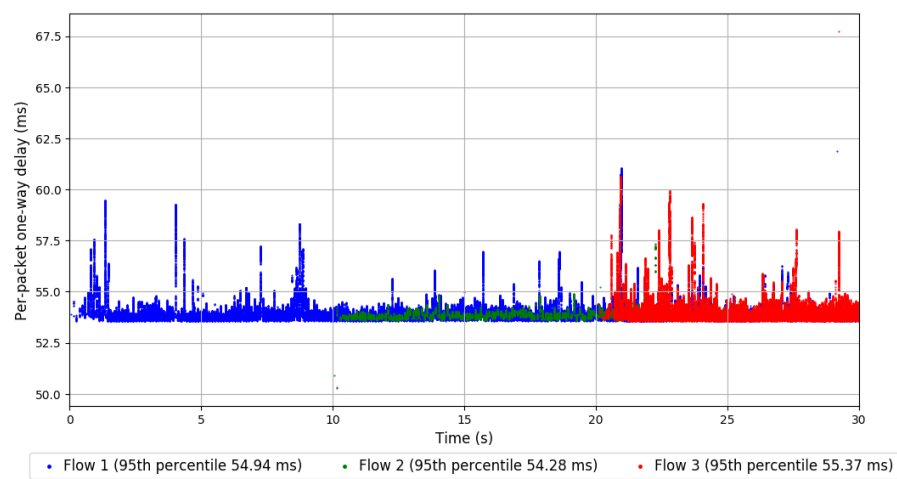
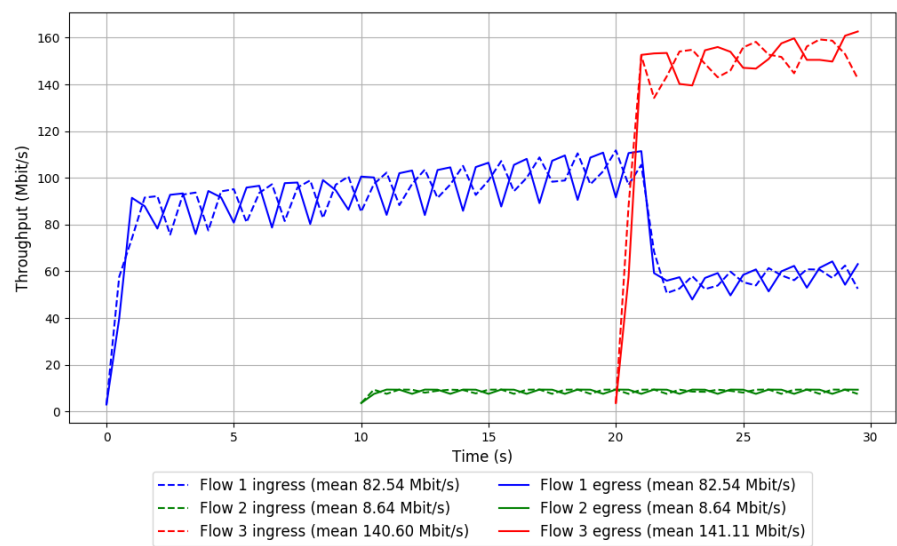
-- Flow 3:

Average throughput: 141.11 Mbit/s

95th percentile per-packet one-way delay: 55.369 ms

Loss rate: 0.00%

Run 10: Report of TCP Vegas — Data Link

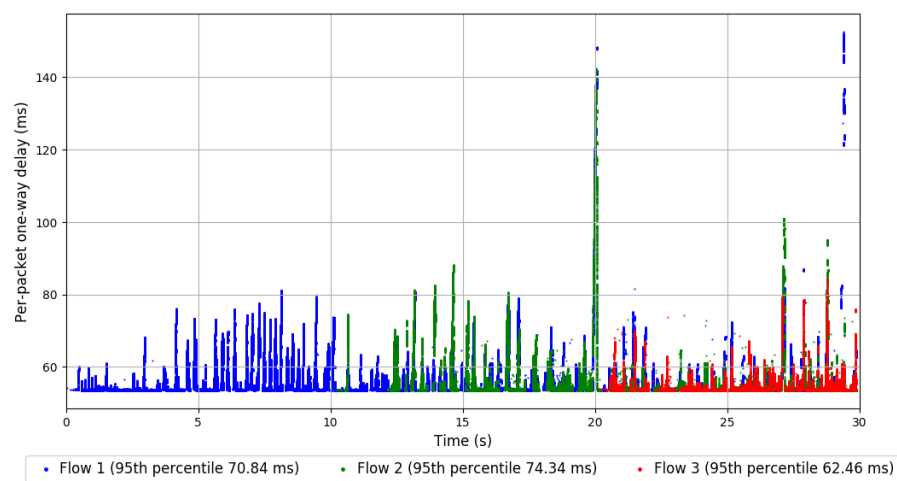
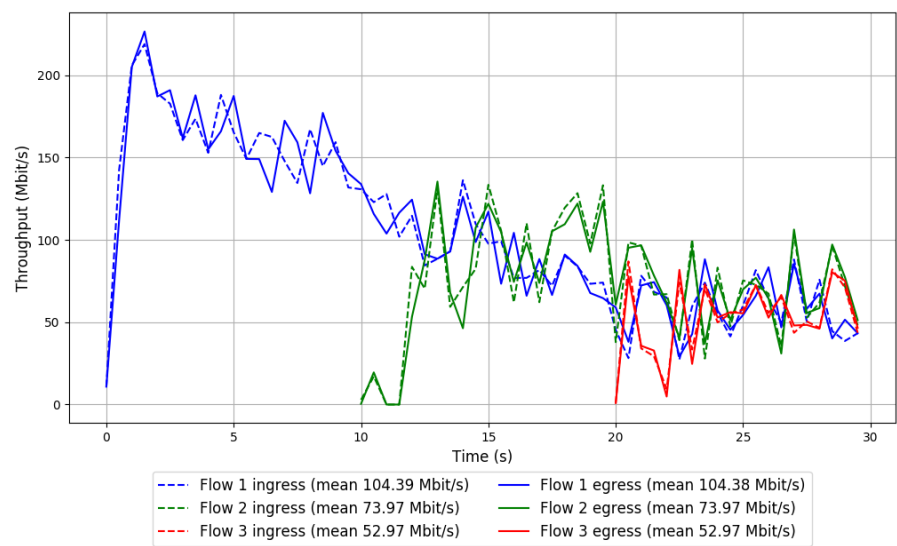


```
Run 1: Statistics of Verus

Start at: 2017-08-31 21:04:24
End at: 2017-08-31 21:04:54

# Below is generated by plot.py at 2017-09-01 01:24:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 170.70 Mbit/s
95th percentile per-packet one-way delay: 70.843 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 104.38 Mbit/s
95th percentile per-packet one-way delay: 70.839 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 73.97 Mbit/s
95th percentile per-packet one-way delay: 74.342 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 52.97 Mbit/s
95th percentile per-packet one-way delay: 62.458 ms
Loss rate: 0.01%
```

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2017-08-31 21:16:15

End at: 2017-08-31 21:16:45

Below is generated by plot.py at 2017-09-01 01:24:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 146.38 Mbit/s

95th percentile per-packet one-way delay: 74.364 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 90.32 Mbit/s

95th percentile per-packet one-way delay: 73.414 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 53.07 Mbit/s

95th percentile per-packet one-way delay: 82.209 ms

Loss rate: 0.00%

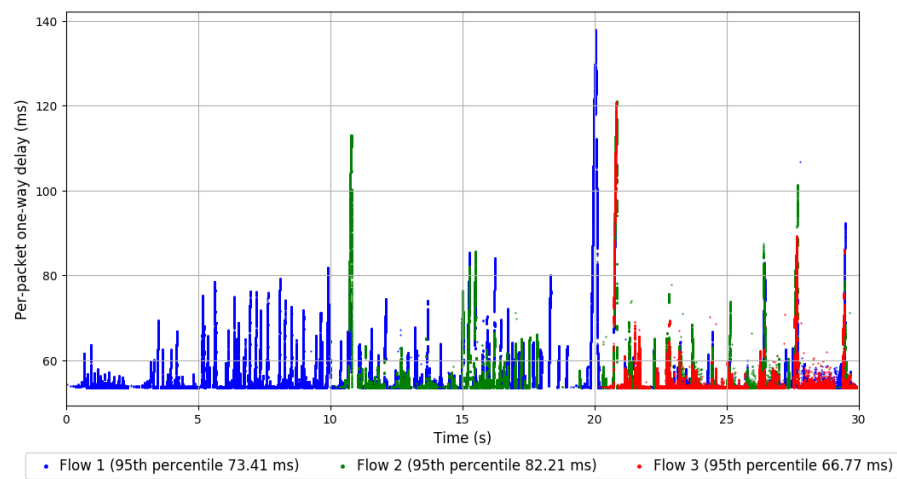
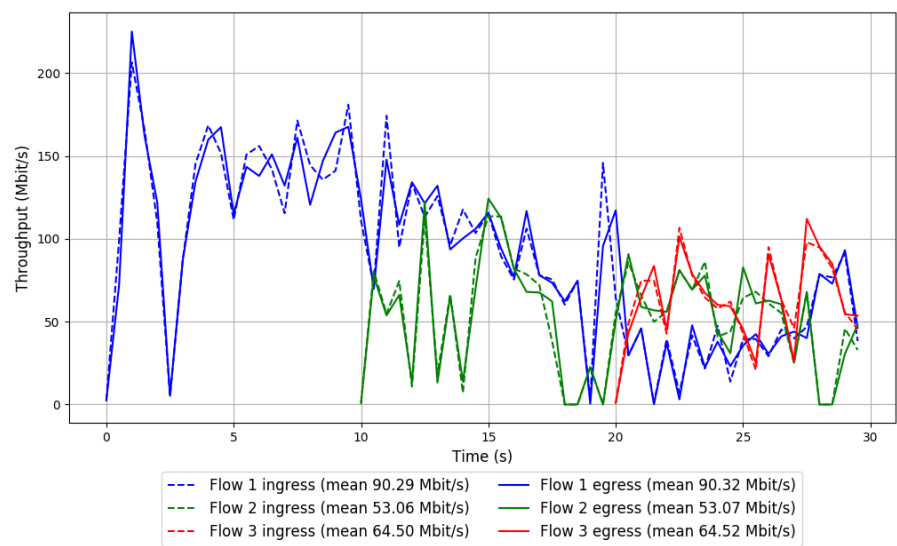
-- Flow 3:

Average throughput: 64.52 Mbit/s

95th percentile per-packet one-way delay: 66.771 ms

Loss rate: 0.00%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2017-08-31 21:28:09

End at: 2017-08-31 21:28:39

Below is generated by plot.py at 2017-09-01 01:25:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 154.08 Mbit/s

95th percentile per-packet one-way delay: 76.471 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 103.03 Mbit/s

95th percentile per-packet one-way delay: 80.321 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 55.50 Mbit/s

95th percentile per-packet one-way delay: 64.046 ms

Loss rate: 0.00%

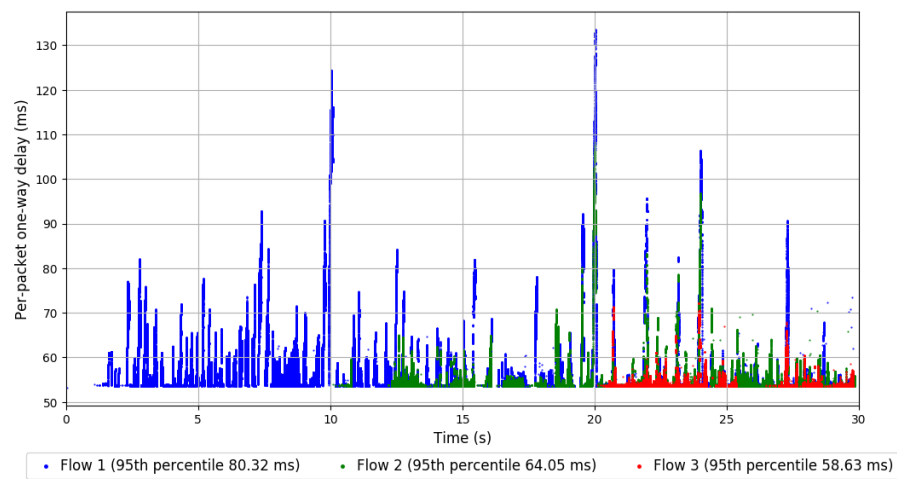
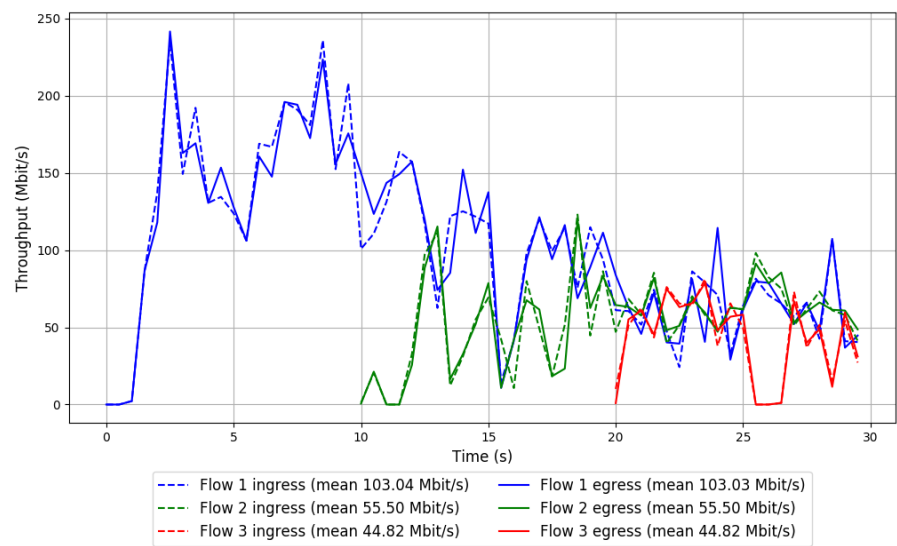
-- Flow 3:

Average throughput: 44.82 Mbit/s

95th percentile per-packet one-way delay: 58.630 ms

Loss rate: 0.00%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2017-08-31 21:40:13

End at: 2017-08-31 21:40:43

Below is generated by plot.py at 2017-09-01 01:25:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 124.43 Mbit/s

95th percentile per-packet one-way delay: 59.883 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 65.86 Mbit/s

95th percentile per-packet one-way delay: 59.812 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 65.04 Mbit/s

95th percentile per-packet one-way delay: 62.020 ms

Loss rate: 0.00%

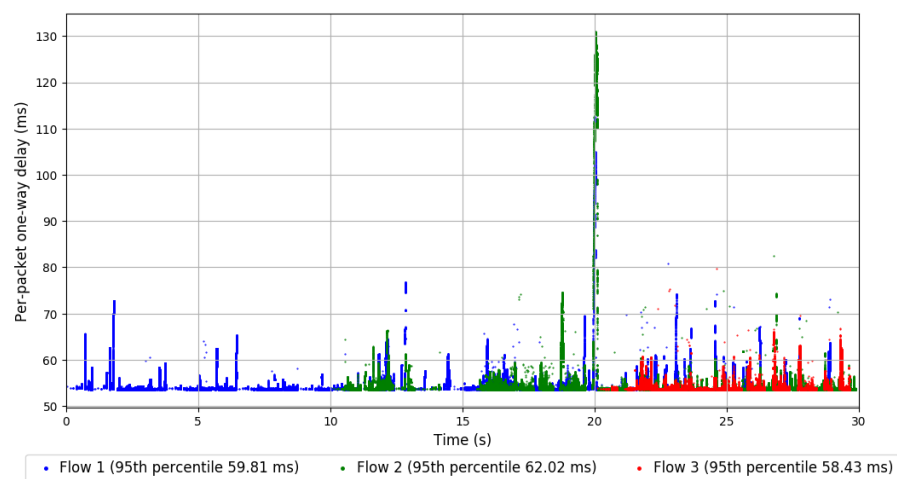
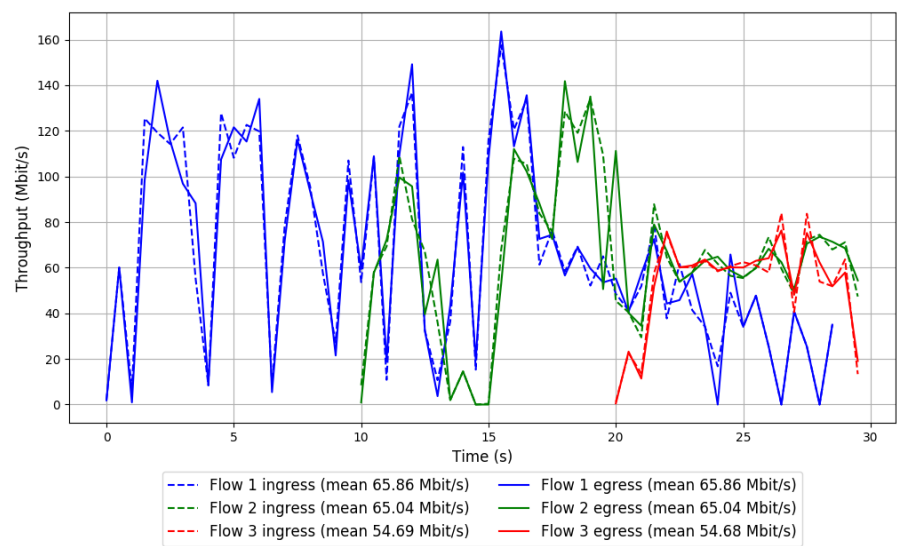
-- Flow 3:

Average throughput: 54.68 Mbit/s

95th percentile per-packet one-way delay: 58.427 ms

Loss rate: 0.00%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2017-08-31 21:52:10

End at: 2017-08-31 21:52:40

Below is generated by plot.py at 2017-09-01 01:25:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 125.10 Mbit/s

95th percentile per-packet one-way delay: 68.597 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 103.50 Mbit/s

95th percentile per-packet one-way delay: 70.034 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 12.65 Mbit/s

95th percentile per-packet one-way delay: 63.382 ms

Loss rate: 0.00%

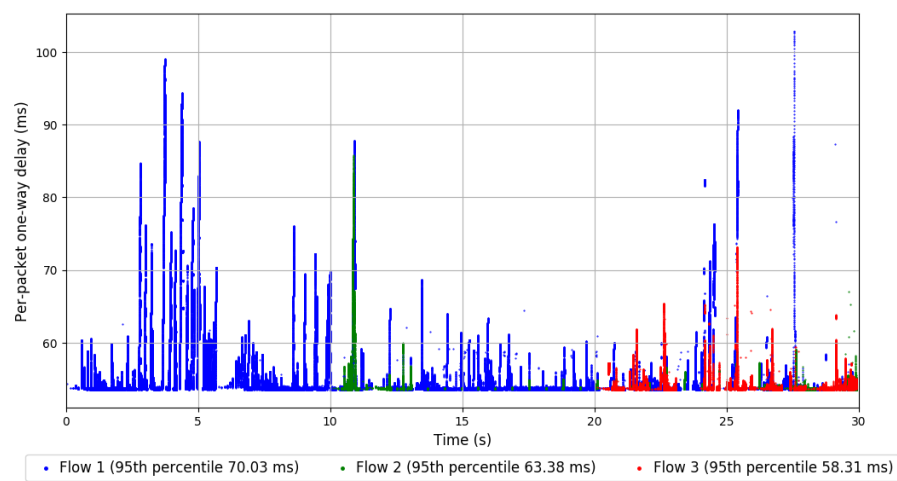
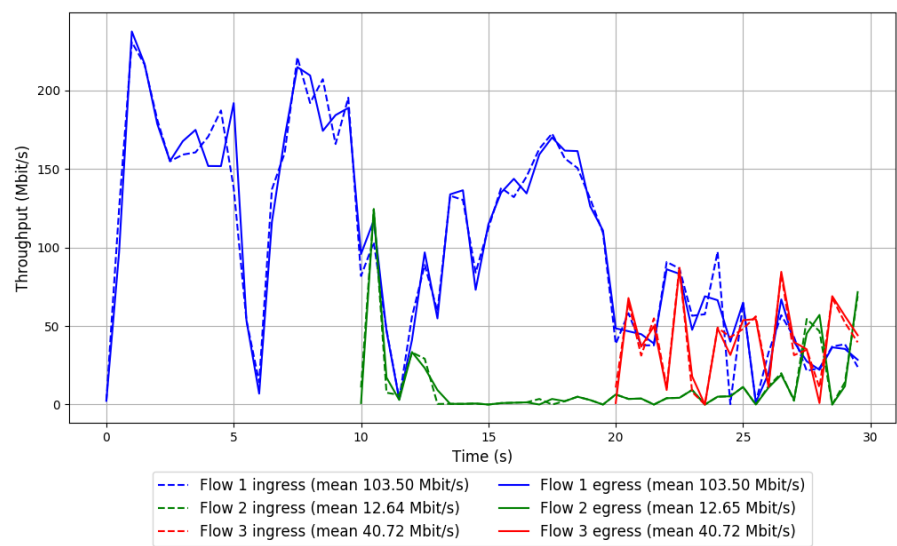
-- Flow 3:

Average throughput: 40.72 Mbit/s

95th percentile per-packet one-way delay: 58.308 ms

Loss rate: 0.00%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2017-08-31 22:04:04

End at: 2017-08-31 22:04:34

Below is generated by plot.py at 2017-09-01 01:25:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 148.48 Mbit/s

95th percentile per-packet one-way delay: 76.541 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 97.53 Mbit/s

95th percentile per-packet one-way delay: 77.852 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 54.19 Mbit/s

95th percentile per-packet one-way delay: 74.214 ms

Loss rate: 0.08%

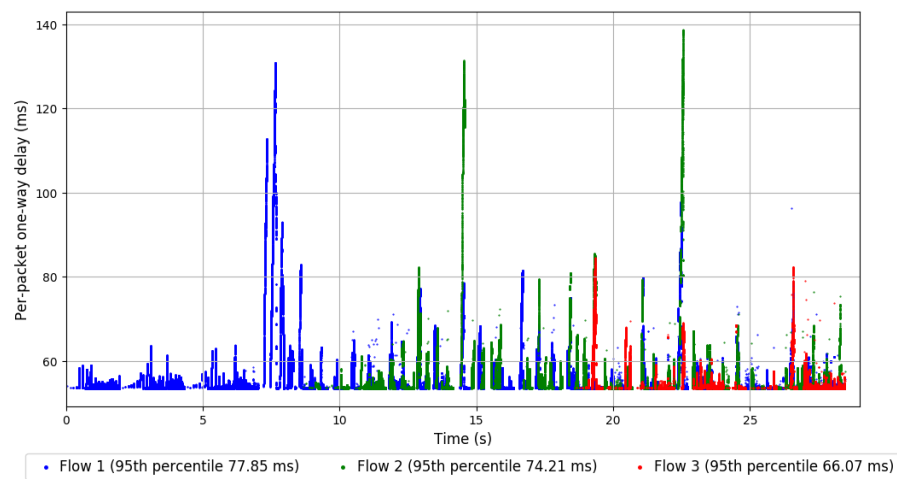
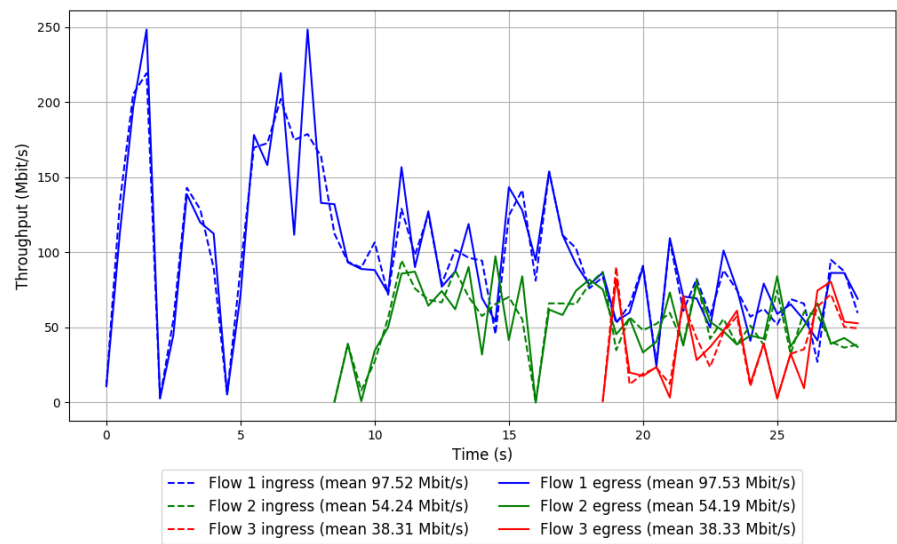
-- Flow 3:

Average throughput: 38.33 Mbit/s

95th percentile per-packet one-way delay: 66.069 ms

Loss rate: 0.02%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2017-08-31 22:15:56

End at: 2017-08-31 22:16:26

Below is generated by plot.py at 2017-09-01 01:26:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 139.97 Mbit/s

95th percentile per-packet one-way delay: 61.003 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 75.64 Mbit/s

95th percentile per-packet one-way delay: 61.469 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 61.88 Mbit/s

95th percentile per-packet one-way delay: 61.746 ms

Loss rate: 0.00%

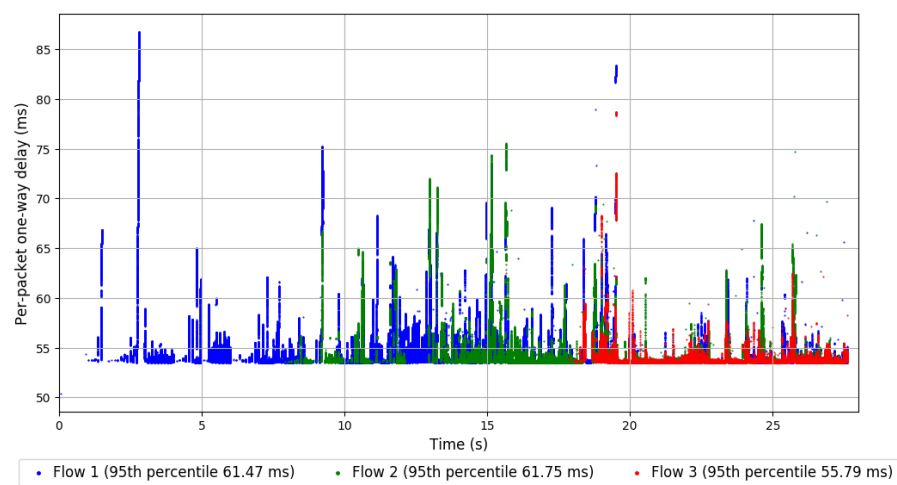
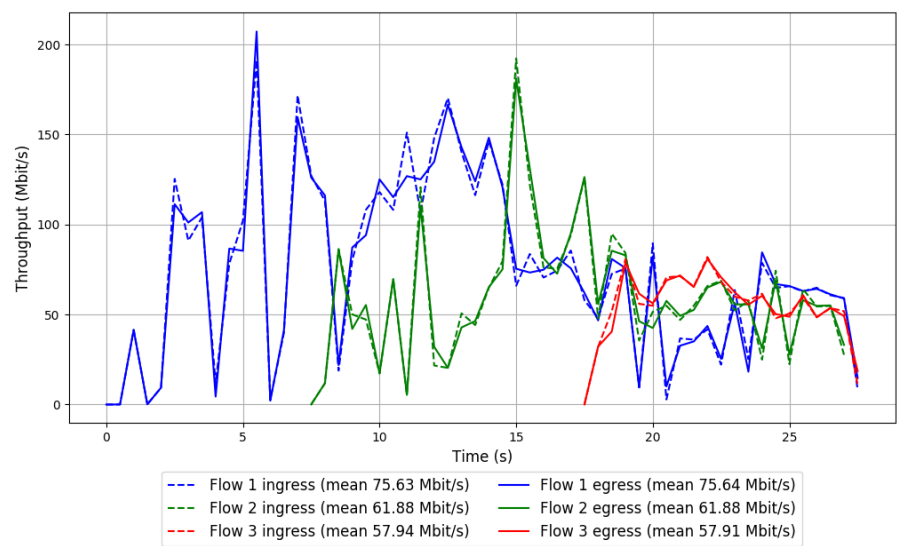
-- Flow 3:

Average throughput: 57.91 Mbit/s

95th percentile per-packet one-way delay: 55.794 ms

Loss rate: 0.02%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2017-08-31 22:28:03

End at: 2017-08-31 22:28:33

Below is generated by plot.py at 2017-09-01 01:26:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 139.87 Mbit/s

95th percentile per-packet one-way delay: 60.892 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 72.68 Mbit/s

95th percentile per-packet one-way delay: 61.775 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 75.28 Mbit/s

95th percentile per-packet one-way delay: 63.698 ms

Loss rate: 0.00%

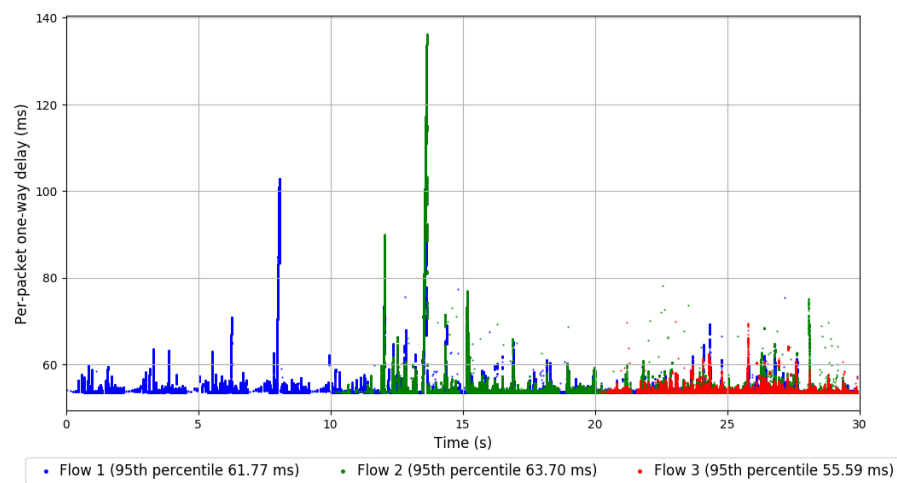
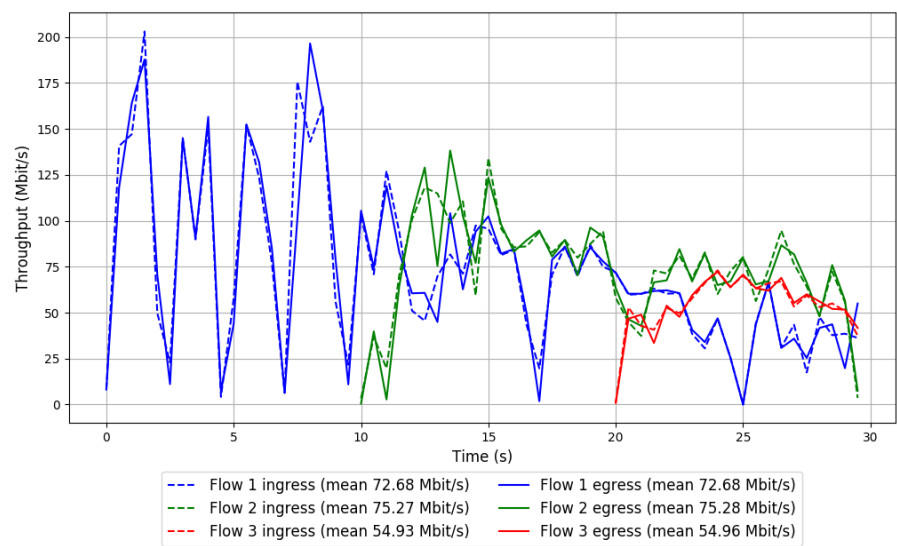
-- Flow 3:

Average throughput: 54.96 Mbit/s

95th percentile per-packet one-way delay: 55.589 ms

Loss rate: 0.02%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2017-08-31 22:40:04

End at: 2017-08-31 22:40:34

Below is generated by plot.py at 2017-09-01 01:26:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 131.34 Mbit/s

95th percentile per-packet one-way delay: 84.557 ms

Loss rate: 0.91%

-- Flow 1:

Average throughput: 77.31 Mbit/s

95th percentile per-packet one-way delay: 102.207 ms

Loss rate: 1.54%

-- Flow 2:

Average throughput: 62.90 Mbit/s

95th percentile per-packet one-way delay: 65.829 ms

Loss rate: 0.00%

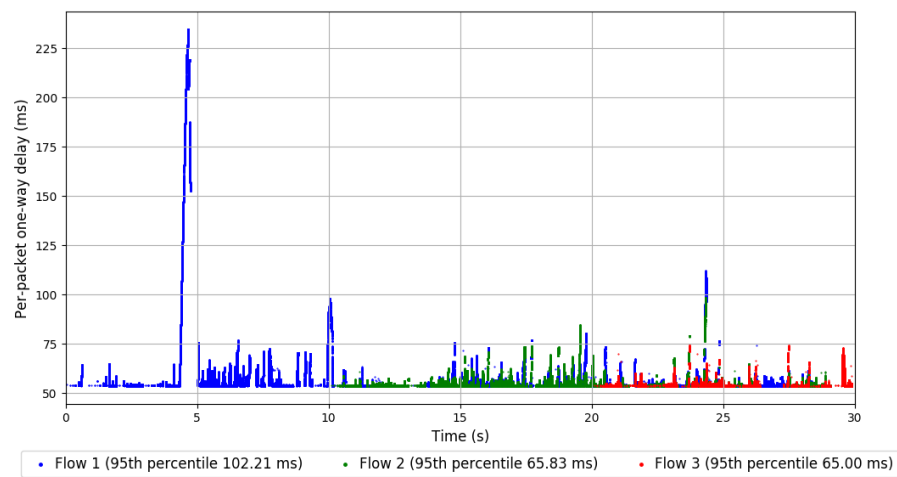
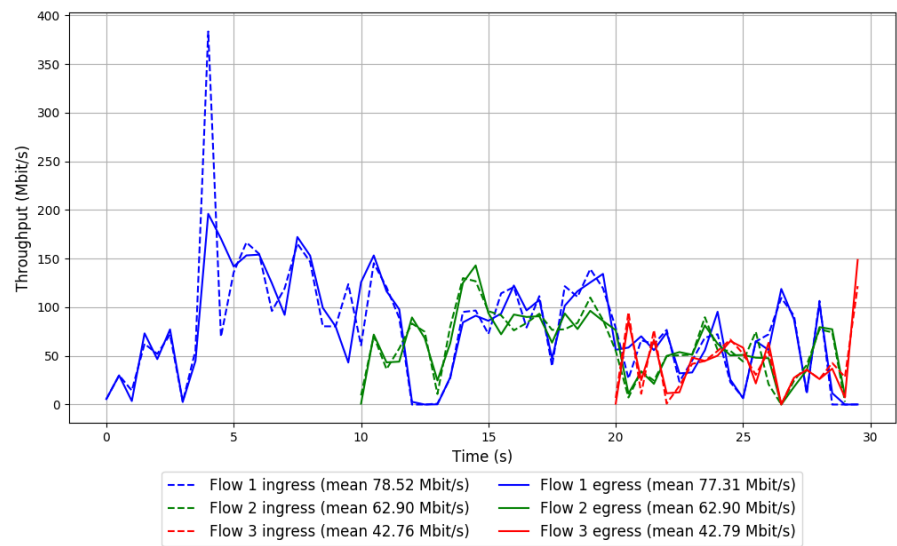
-- Flow 3:

Average throughput: 42.79 Mbit/s

95th percentile per-packet one-way delay: 65.001 ms

Loss rate: 0.00%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2017-08-31 22:51:52

End at: 2017-08-31 22:52:22

Below is generated by plot.py at 2017-09-01 01:26:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 145.79 Mbit/s

95th percentile per-packet one-way delay: 77.738 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 89.97 Mbit/s

95th percentile per-packet one-way delay: 82.731 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 64.52 Mbit/s

95th percentile per-packet one-way delay: 65.966 ms

Loss rate: 0.00%

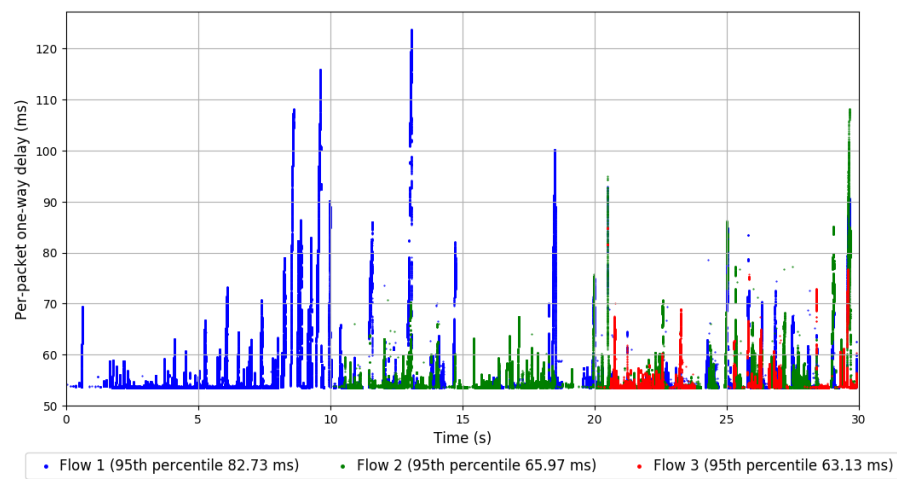
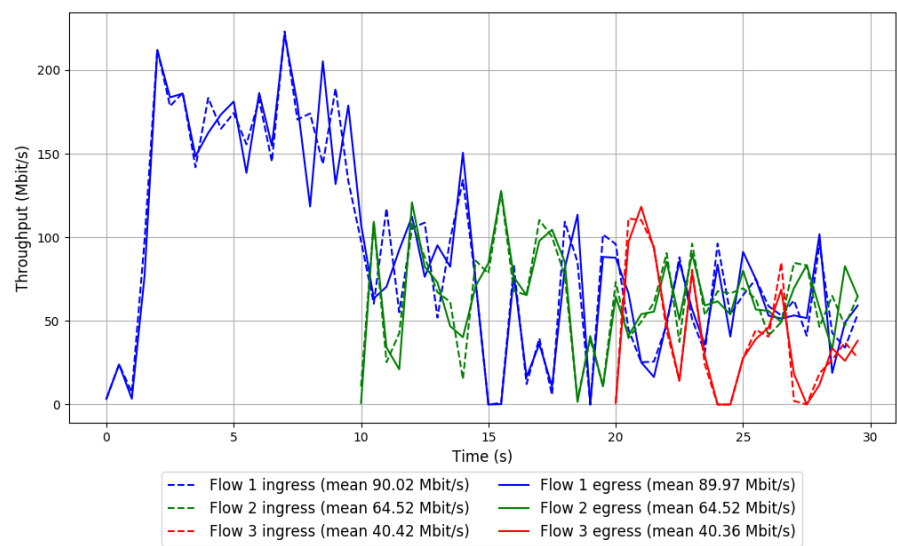
-- Flow 3:

Average throughput: 40.36 Mbit/s

95th percentile per-packet one-way delay: 63.127 ms

Loss rate: 0.10%

Run 10: Report of Verus — Data Link

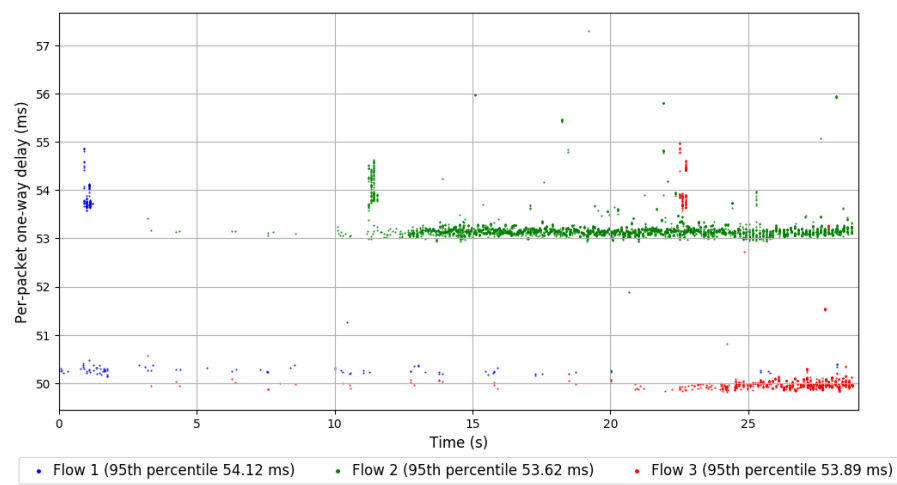
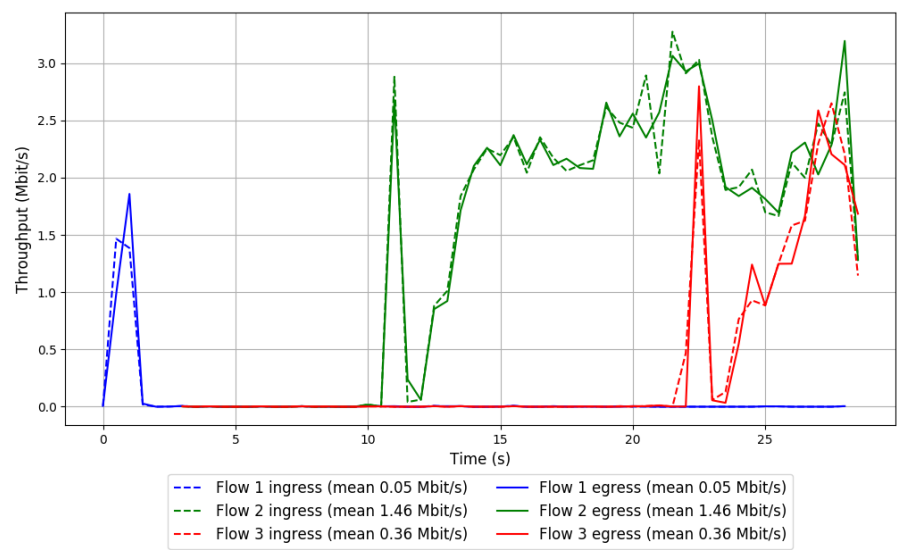


```
Run 1: Statistics of WebRTC media

Start at: 2017-08-31 21:07:41
End at: 2017-08-31 21:08:11

# Below is generated by plot.py at 2017-09-01 01:26:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.67 Mbit/s
95th percentile per-packet one-way delay: 53.812 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 54.123 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.46 Mbit/s
95th percentile per-packet one-way delay: 53.615 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.36 Mbit/s
95th percentile per-packet one-way delay: 53.890 ms
Loss rate: 0.00%
```


Run 1: Report of WebRTC media — Data Link

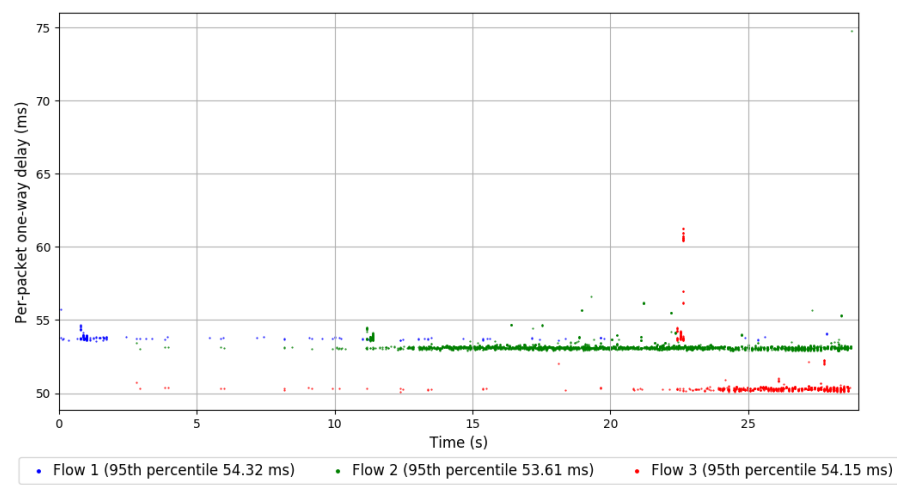
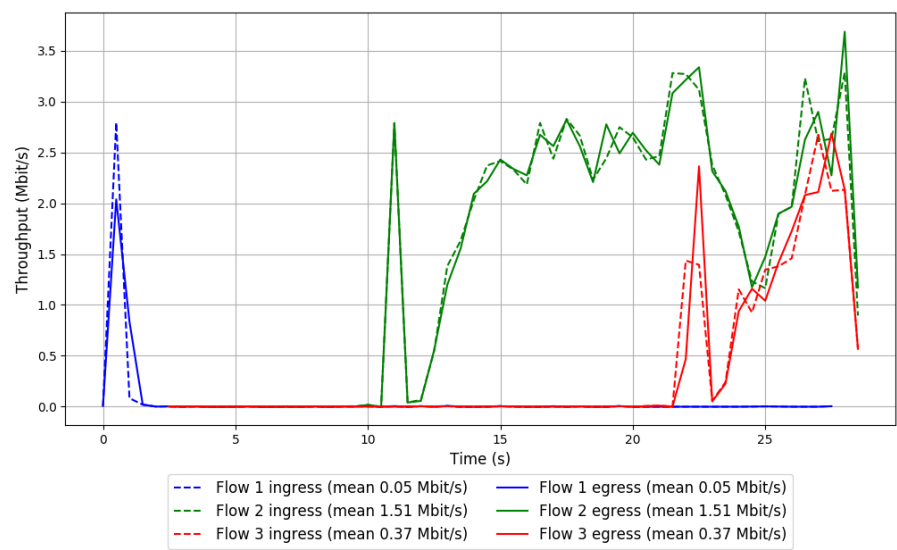


```
Run 2: Statistics of WebRTC media

Start at: 2017-08-31 21:19:35
End at: 2017-08-31 21:20:05

# Below is generated by plot.py at 2017-09-01 01:26:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.75 Mbit/s
95th percentile per-packet one-way delay: 53.811 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 54.317 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.51 Mbit/s
95th percentile per-packet one-way delay: 53.606 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.37 Mbit/s
95th percentile per-packet one-way delay: 54.146 ms
Loss rate: 0.00%
```

Run 2: Report of WebRTC media — Data Link

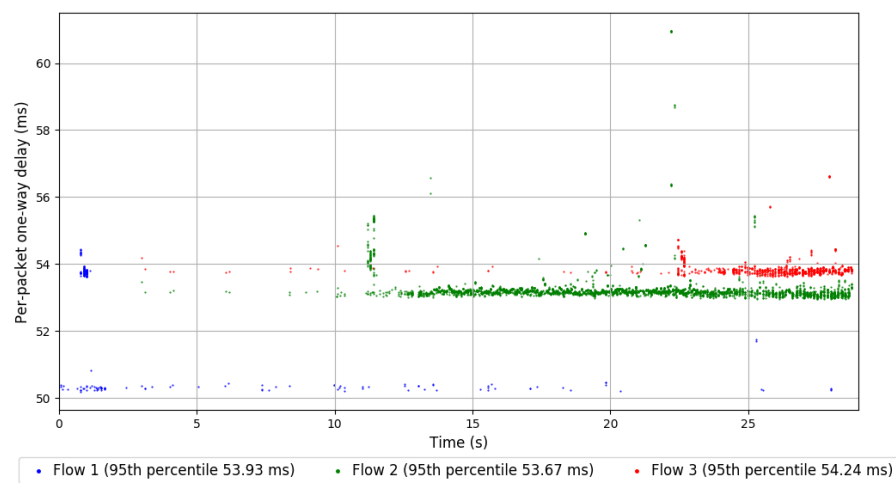
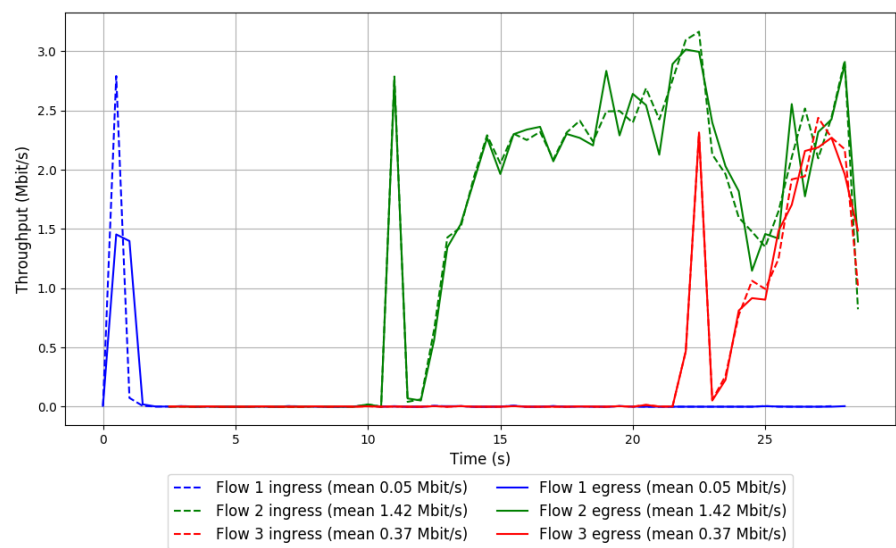


```
Run 3: Statistics of WebRTC media

Start at: 2017-08-31 21:31:30
End at: 2017-08-31 21:32:00

# Below is generated by plot.py at 2017-09-01 01:26:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.66 Mbit/s
95th percentile per-packet one-way delay: 54.077 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 53.931 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.42 Mbit/s
95th percentile per-packet one-way delay: 53.671 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.37 Mbit/s
95th percentile per-packet one-way delay: 54.241 ms
Loss rate: 0.00%
```

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2017-08-31 21:43:29

End at: 2017-08-31 21:43:59

Below is generated by plot.py at 2017-09-01 01:26:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 1.64 Mbit/s

95th percentile per-packet one-way delay: 53.976 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 54.178 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.44 Mbit/s

95th percentile per-packet one-way delay: 53.978 ms

Loss rate: 0.00%

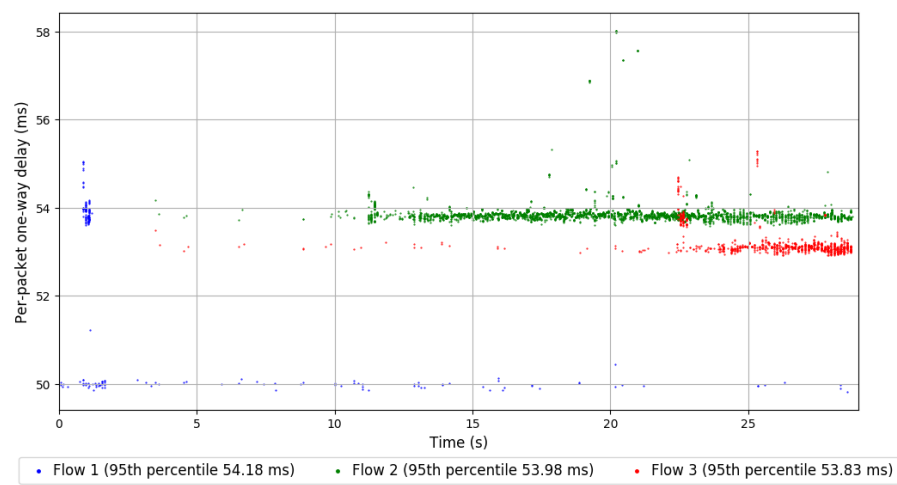
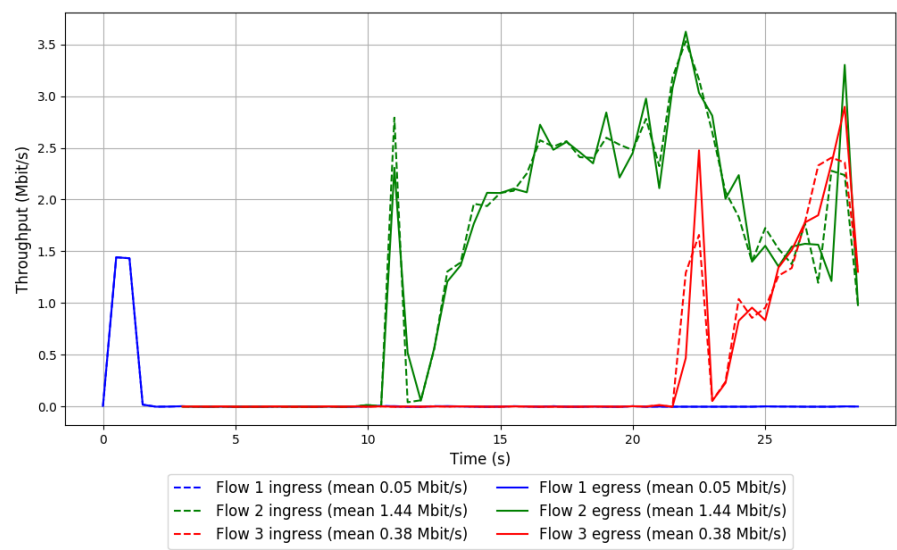
-- Flow 3:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 53.831 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2017-08-31 21:55:24

End at: 2017-08-31 21:55:54

Below is generated by plot.py at 2017-09-01 01:26:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 1.59 Mbit/s

95th percentile per-packet one-way delay: 54.094 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 54.033 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.35 Mbit/s

95th percentile per-packet one-way delay: 54.090 ms

Loss rate: 0.00%

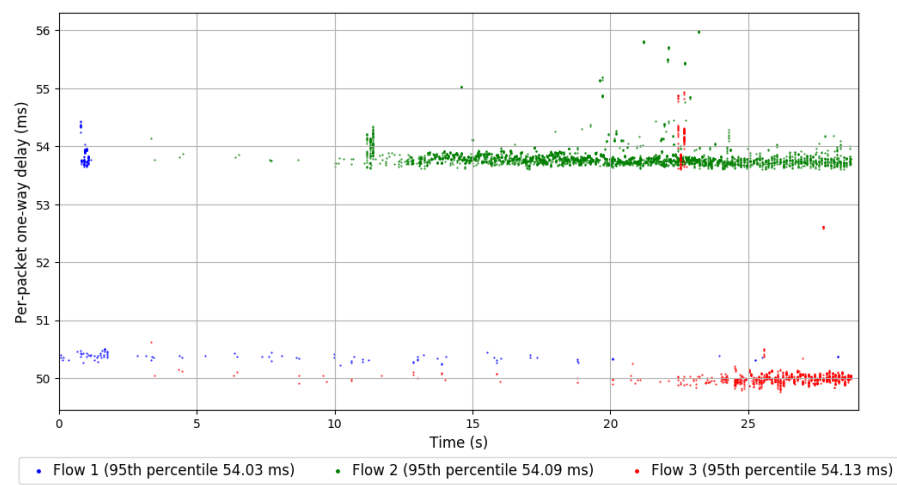
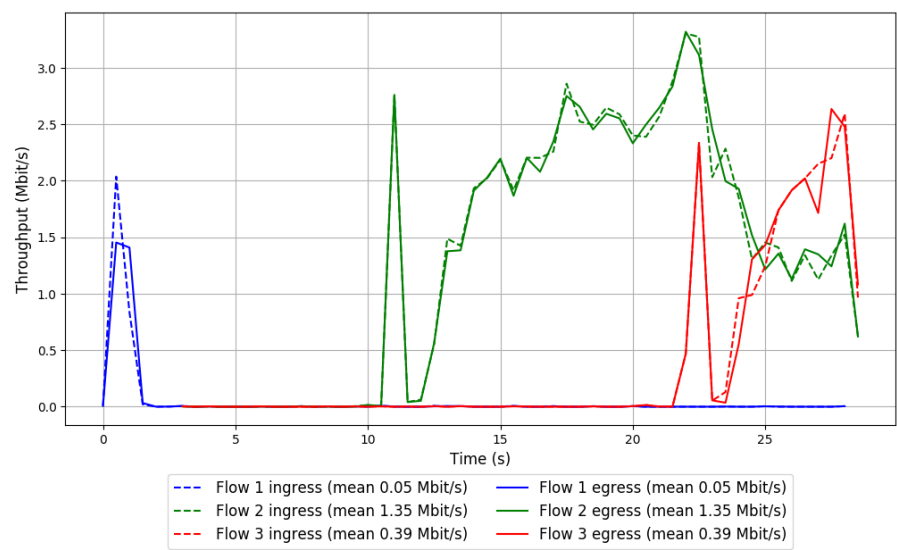
-- Flow 3:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 54.130 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2017-08-31 22:07:19

End at: 2017-08-31 22:07:49

Below is generated by plot.py at 2017-09-01 01:26:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 1.67 Mbit/s

95th percentile per-packet one-way delay: 54.128 ms

Loss rate: 0.16%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 53.935 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.48 Mbit/s

95th percentile per-packet one-way delay: 54.125 ms

Loss rate: 0.21%

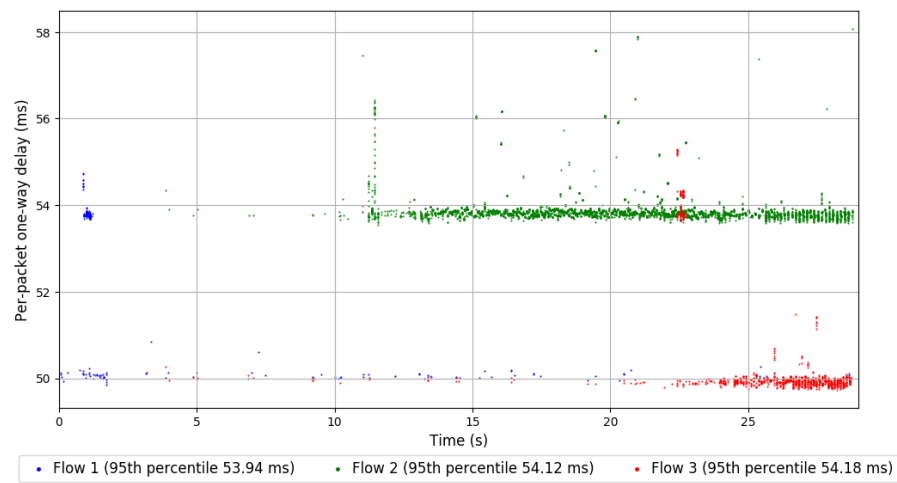
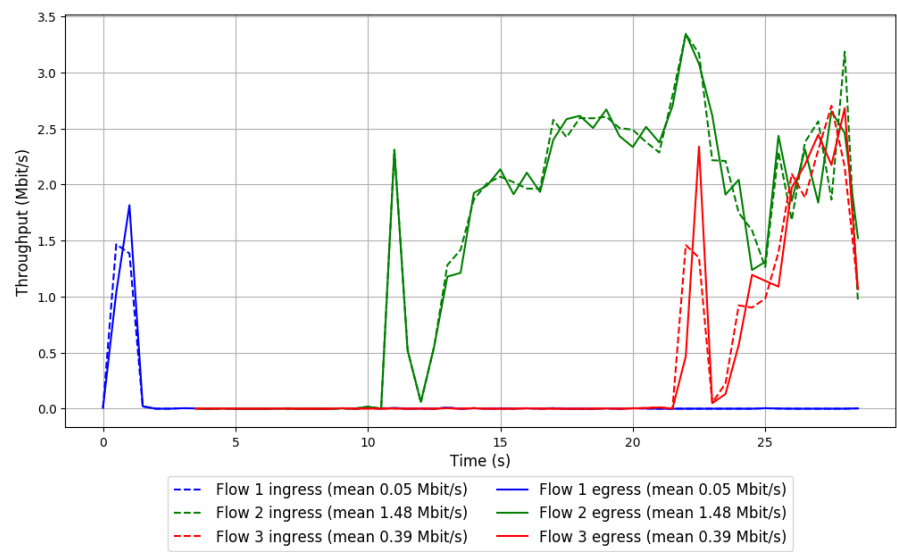
-- Flow 3:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 54.180 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2017-08-31 22:19:28

End at: 2017-08-31 22:19:58

Below is generated by plot.py at 2017-09-01 01:26:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 1.72 Mbit/s

95th percentile per-packet one-way delay: 53.877 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 54.260 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.53 Mbit/s

95th percentile per-packet one-way delay: 51.103 ms

Loss rate: 0.00%

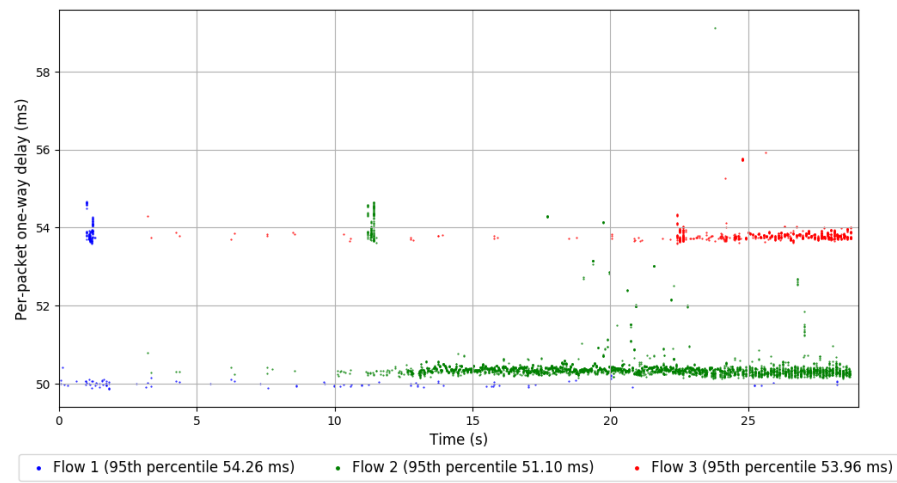
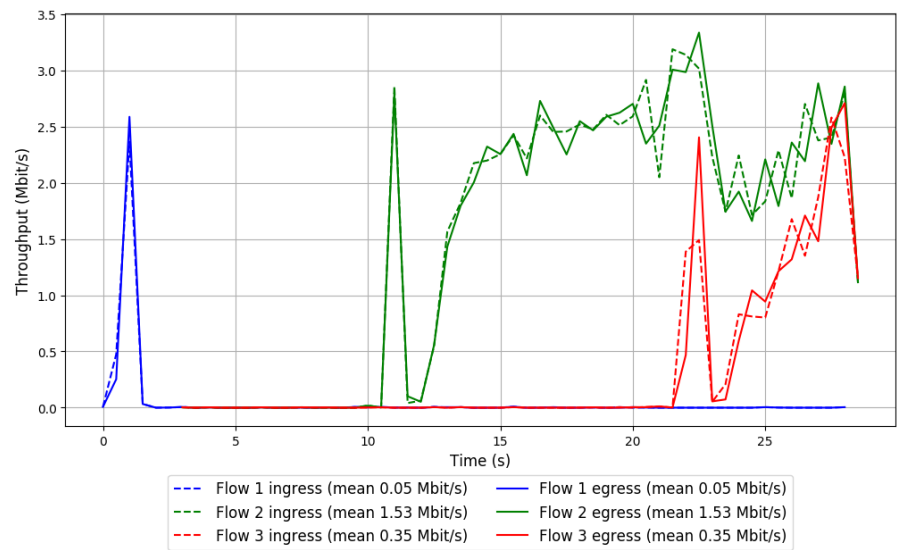
-- Flow 3:

Average throughput: 0.35 Mbit/s

95th percentile per-packet one-way delay: 53.956 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2017-08-31 22:31:20

End at: 2017-08-31 22:31:50

Below is generated by plot.py at 2017-09-01 01:26:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 1.72 Mbit/s

95th percentile per-packet one-way delay: 53.706 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 53.932 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.48 Mbit/s

95th percentile per-packet one-way delay: 51.609 ms

Loss rate: 0.00%

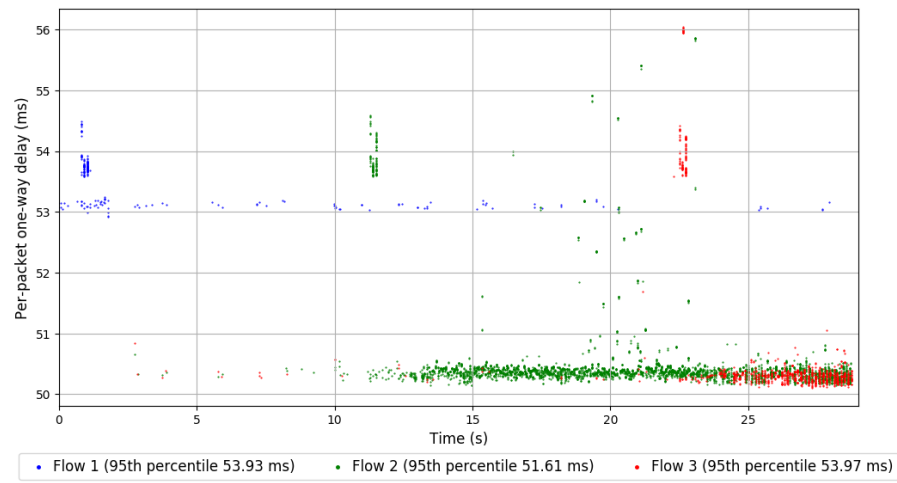
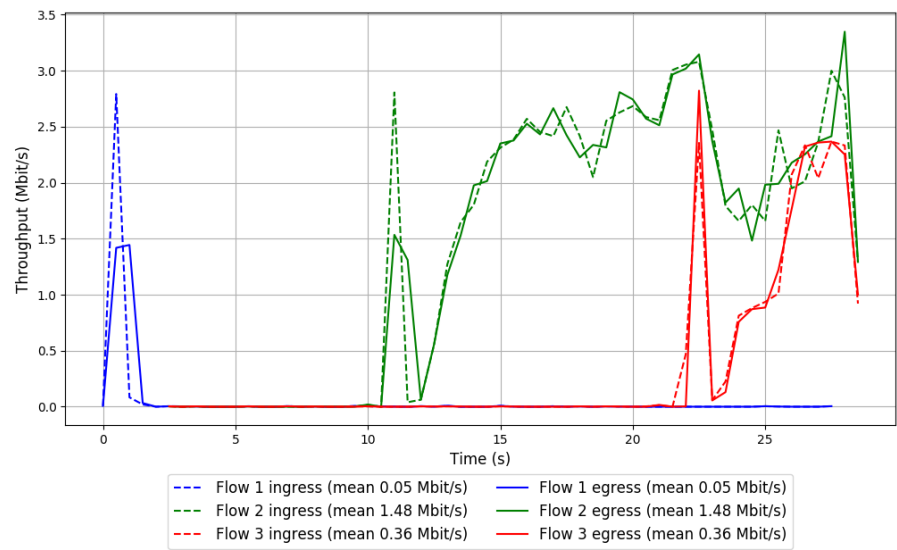
-- Flow 3:

Average throughput: 0.36 Mbit/s

95th percentile per-packet one-way delay: 53.968 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2017-08-31 22:43:20

End at: 2017-08-31 22:43:50

Below is generated by plot.py at 2017-09-01 01:26:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 1.73 Mbit/s

95th percentile per-packet one-way delay: 53.904 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 54.459 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.53 Mbit/s

95th percentile per-packet one-way delay: 51.695 ms

Loss rate: 0.00%

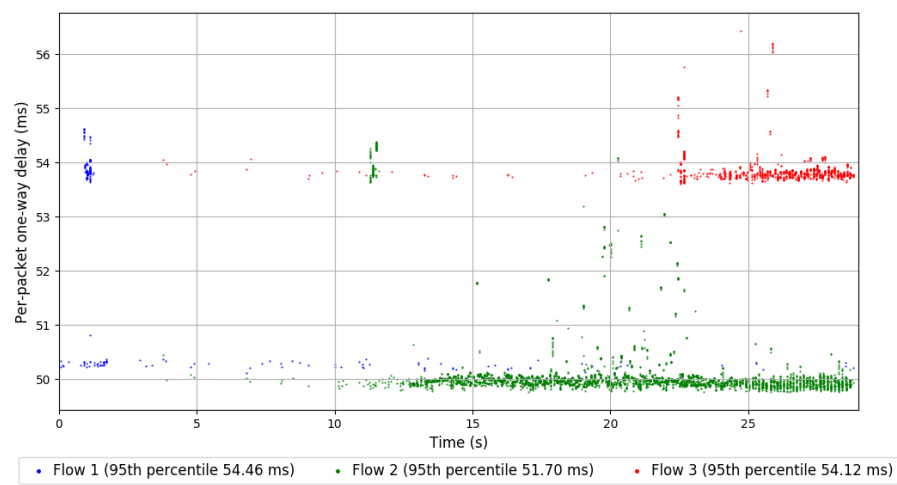
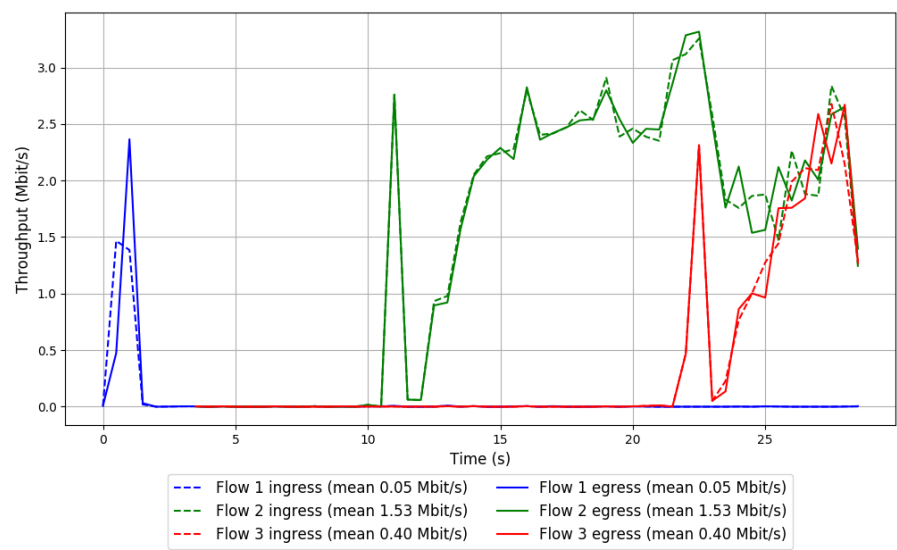
-- Flow 3:

Average throughput: 0.40 Mbit/s

95th percentile per-packet one-way delay: 54.116 ms

Loss rate: 0.10%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2017-08-31 22:55:14

End at: 2017-08-31 22:55:44

Below is generated by plot.py at 2017-09-01 01:26:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 1.70 Mbit/s

95th percentile per-packet one-way delay: 53.810 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 53.973 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.52 Mbit/s

95th percentile per-packet one-way delay: 51.040 ms

Loss rate: 0.00%

-- Flow 3:

Average throughput: 0.34 Mbit/s

95th percentile per-packet one-way delay: 53.875 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

