

Pantheon Report

Generated at 2017-08-12 06:47:10 (UTC).

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

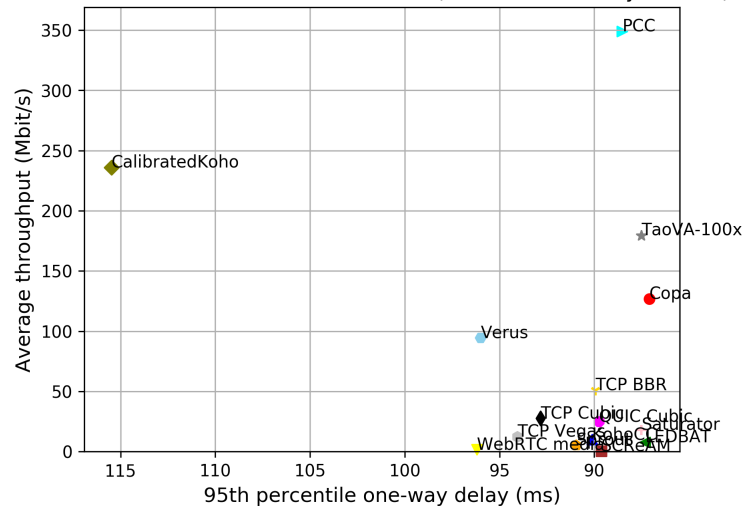
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

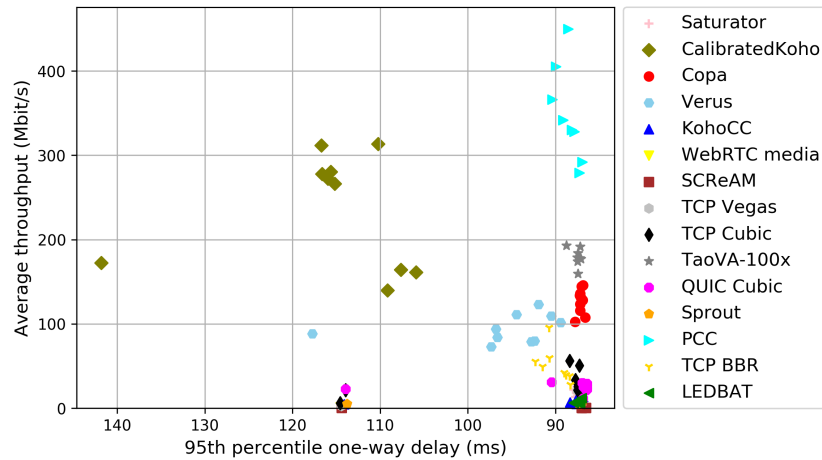
Git summary:

```
branch: master @ e43be7582298d552838afcf6382342bf187fbbd6
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/genericCC @ dae96123232f1bcb37725348fa2378691ce26725
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
  M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-stimuli @ fc73a85ca16c34366d1888dc8a0d0d88d4ebf2a7
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 Iowa Ethernet to GCE Sydney Ethernet, 10 runs of 30s each per scheme
3 flows with 10s interval between flows (mean of all runs by scheme)



test from GCE Iowa Ethernet to GCE Sydney 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	8	21.23	30.55	28.50	88.39	89.69	89.98	30.77	22.70	22.39
CalibratedKoho	10	136.96	131.01	35.57	108.40	108.87	103.58	26.43	16.66	20.06
Copa	10	83.76	51.12	34.18	86.99	89.67	89.64	0.20	0.47	11.14
TCP Cubic	10	14.11	12.37	15.67	92.75	90.11	92.81	2.47	2.58	9.44
KohoCC	10	4.63	5.67	4.55	90.06	89.94	95.46	29.49	13.58	26.63
LEDBAT	10	4.15	5.45	3.82	87.31	1788.02	789.60	0.87	0.58	2.18
PCC	8	257.36	70.94	135.28	88.80	87.65	87.54	6.86	17.74	5.09
QUIC Cubic	10	0.06	26.23	23.03	86.56	89.55	86.50	0.00	0.02	0.00
Saturator	8	12.73	104.13	8.34	87.44	401.96	87.45	3.52	11.03	17.57
SCReAM	10	0.21	0.22	0.22	89.55	86.55	86.75	0.03	0.08	0.00
Sprout	7	2.89	2.63	2.49	91.01	87.08	87.04	1.49	2.88	2.87
TaoVA-100x	8	135.41	80.22	52.29	87.53	87.55	87.06	1.55	1.34	1.89
TCP Vegas	4	8.49	8.02	4.02	575.65	94.12	87.03	0.78	2.65	2.49
Verus	10	60.02	39.23	26.26	97.03	96.96	113.81	24.06	30.70	26.83
WebRTC media	9	0.06	1.78	0.36	96.32	90.10	96.86	0.00	0.12	0.66

Run 1: Statistics of TCP BBR

Start at: 2017-08-12 03:04:47

End at: 2017-08-12 03:05:17

Below is generated by plot.py at 2017-08-12 06:25:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.68 Mbit/s

95th percentile per-packet one-way delay: 90.743 ms

Loss rate: 9.79%

-- Flow 1:

Average throughput: 44.42 Mbit/s

95th percentile per-packet one-way delay: 90.661 ms

Loss rate: 8.76%

-- Flow 2:

Average throughput: 55.48 Mbit/s

95th percentile per-packet one-way delay: 90.799 ms

Loss rate: 9.28%

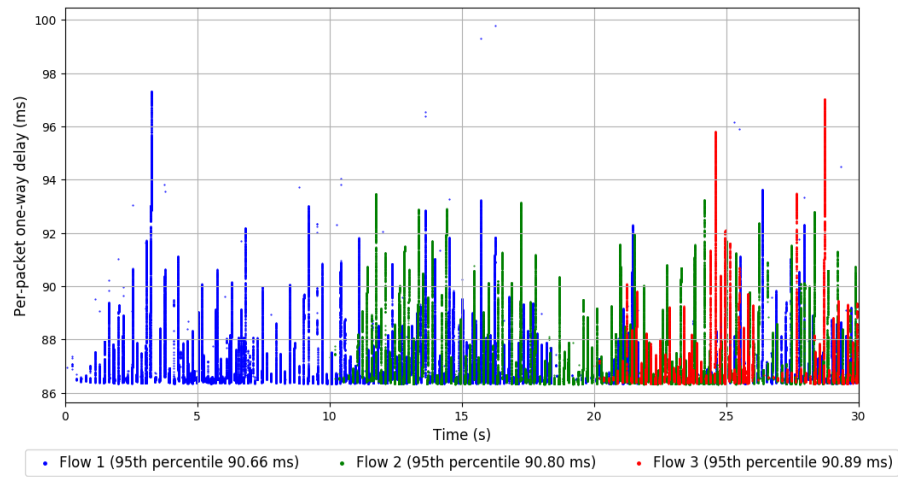
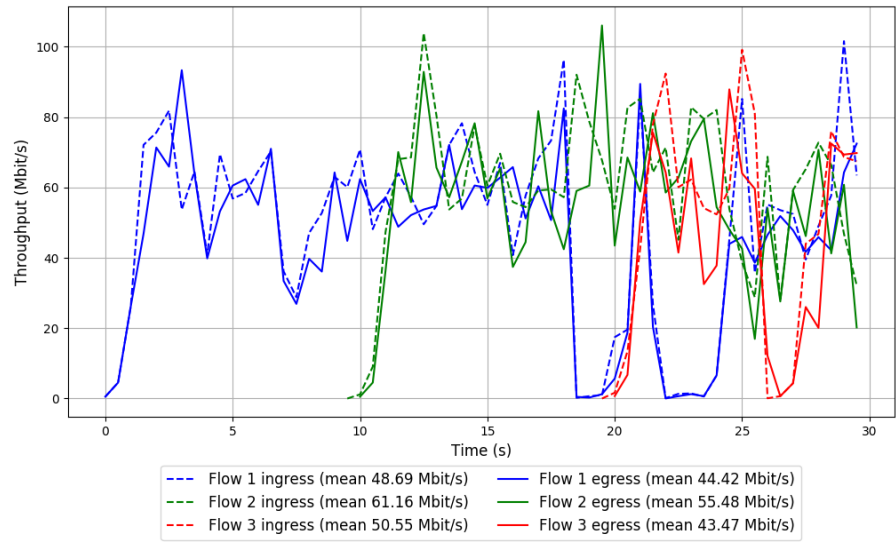
-- Flow 3:

Average throughput: 43.47 Mbit/s

95th percentile per-packet one-way delay: 90.889 ms

Loss rate: 14.00%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2017-08-12 03:17:39

End at: 2017-08-12 03:18:09

Below is generated by plot.py at 2017-08-12 06:25:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 59.62 Mbit/s

95th percentile per-packet one-way delay: 90.673 ms

Loss rate: 20.96%

-- Flow 1:

Average throughput: 20.10 Mbit/s

95th percentile per-packet one-way delay: 87.602 ms

Loss rate: 34.14%

-- Flow 2:

Average throughput: 41.97 Mbit/s

95th percentile per-packet one-way delay: 91.559 ms

Loss rate: 12.23%

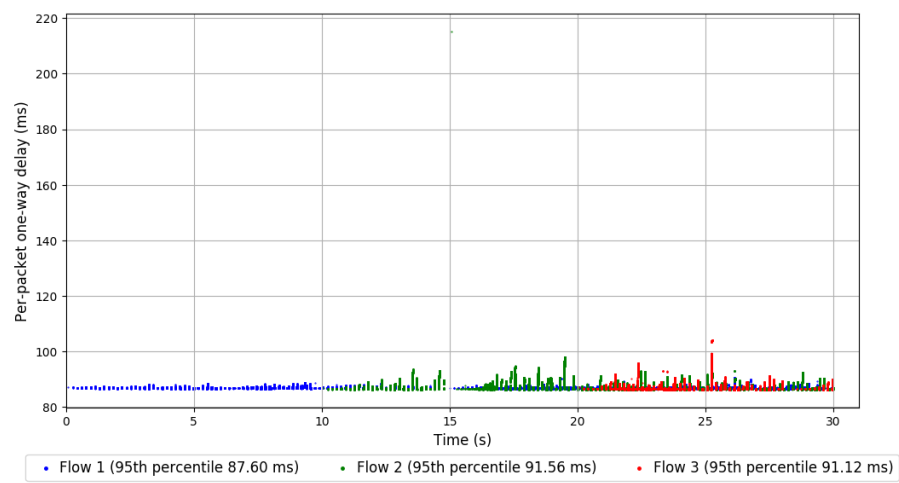
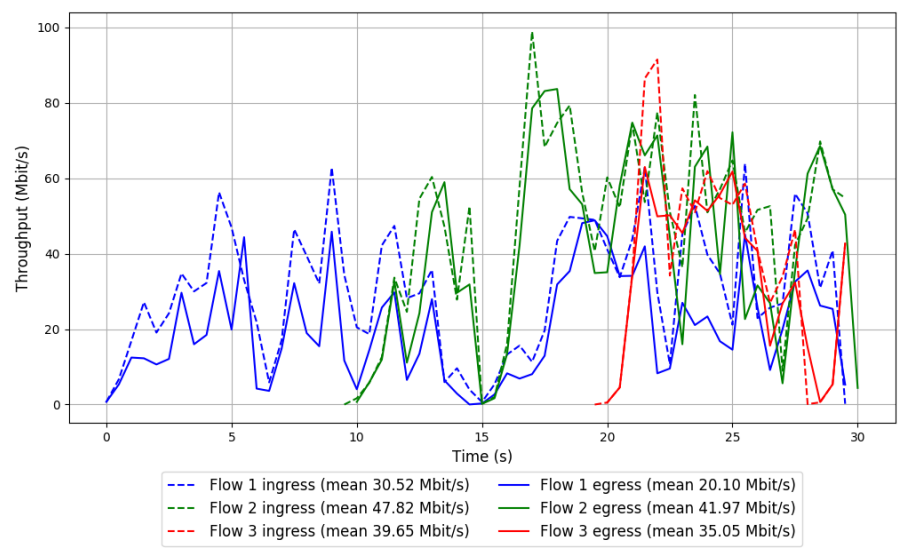
-- Flow 3:

Average throughput: 35.05 Mbit/s

95th percentile per-packet one-way delay: 91.121 ms

Loss rate: 11.59%

Run 2: Report of TCP BBR — Data Link

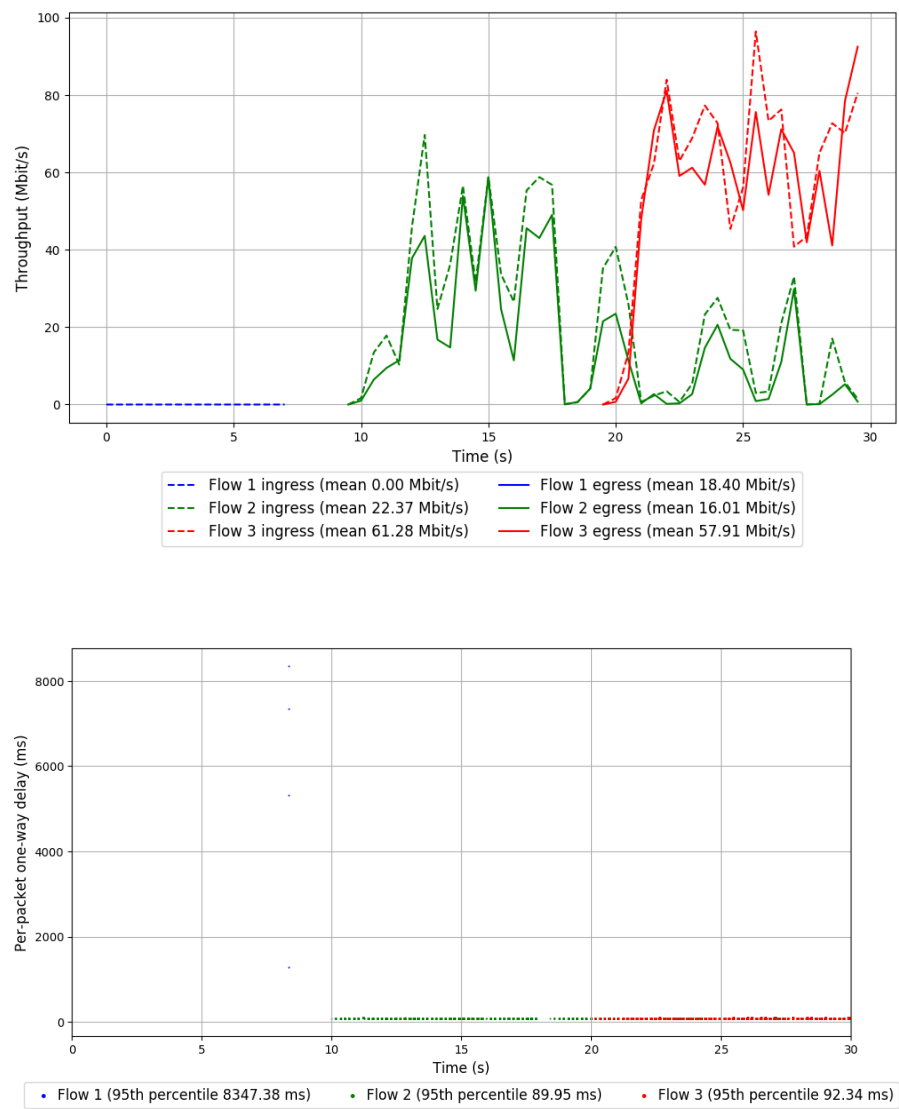


Run 3: Statistics of TCP BBR

Start at: 2017-08-12 03:31:13

End at: 2017-08-12 03:31:43

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2017-08-12 03:44:31

End at: 2017-08-12 03:45:01

Below is generated by plot.py at 2017-08-12 06:25:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 41.95 Mbit/s

95th percentile per-packet one-way delay: 88.993 ms

Loss rate: 30.89%

-- Flow 1:

Average throughput: 24.25 Mbit/s

95th percentile per-packet one-way delay: 88.569 ms

Loss rate: 32.17%

-- Flow 2:

Average throughput: 18.11 Mbit/s

95th percentile per-packet one-way delay: 89.512 ms

Loss rate: 29.44%

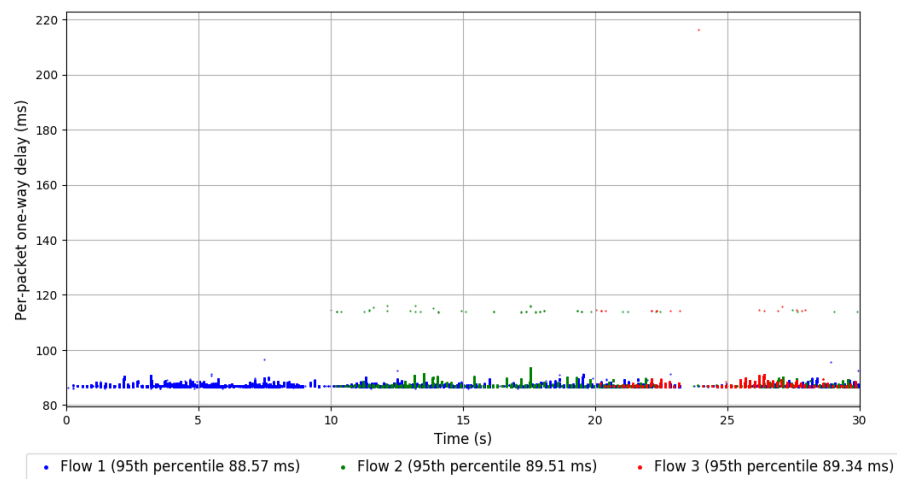
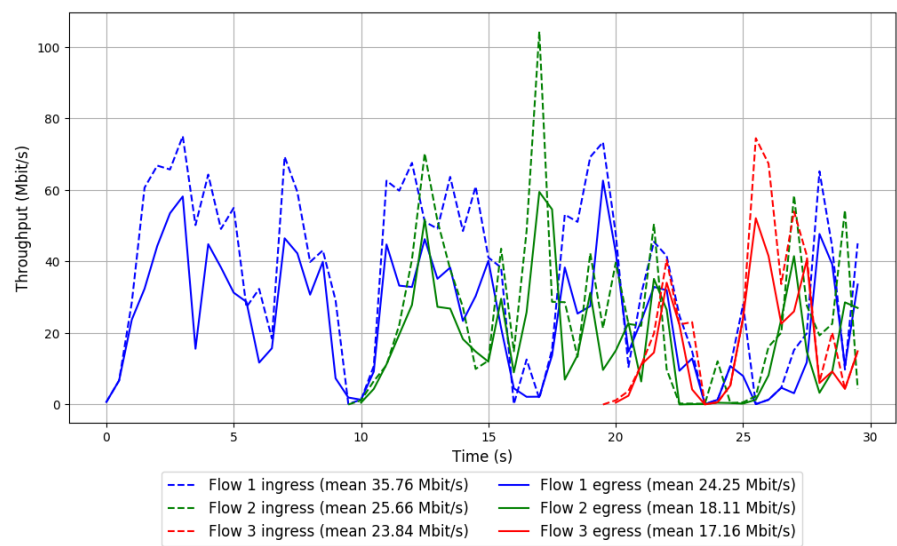
-- Flow 3:

Average throughput: 17.16 Mbit/s

95th percentile per-packet one-way delay: 89.341 ms

Loss rate: 28.20%

Run 4: Report of TCP BBR — Data Link

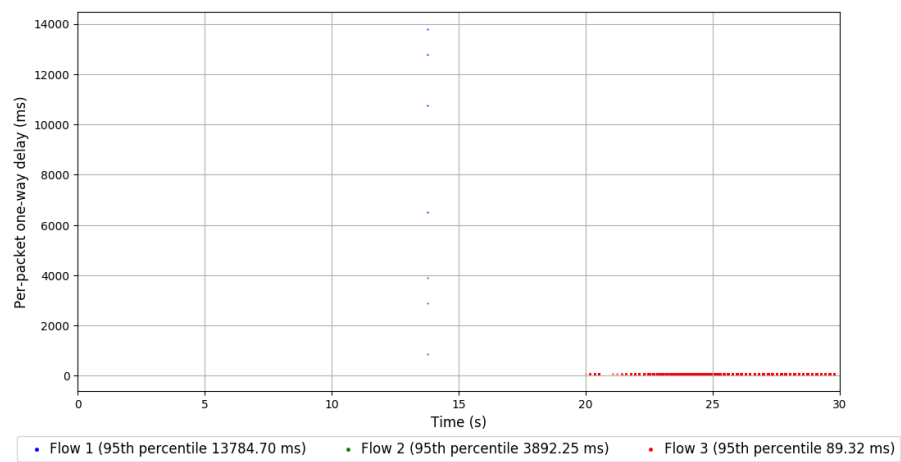
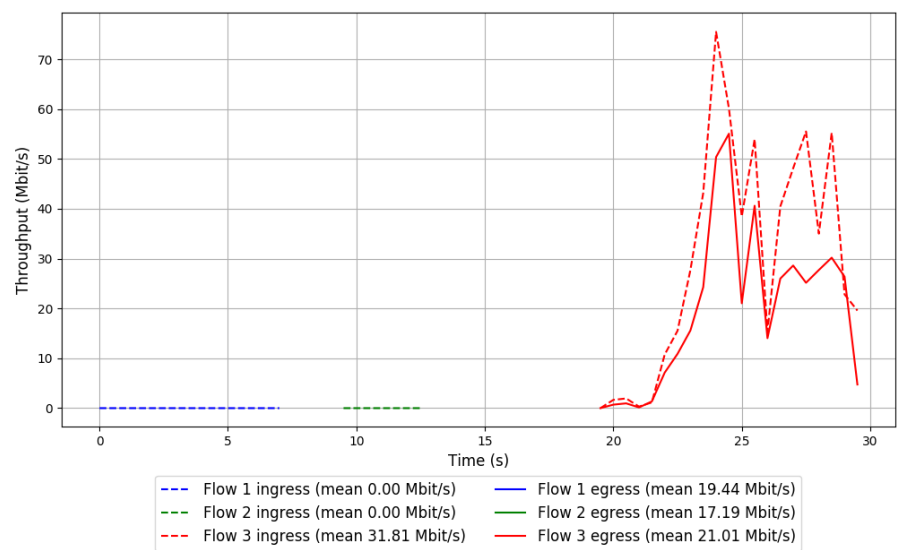


Run 5: Statistics of TCP BBR

Start at: 2017-08-12 03:56:34

End at: 2017-08-12 03:57:04

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2017-08-12 04:08:51

End at: 2017-08-12 04:09:21

Below is generated by plot.py at 2017-08-12 06:25:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 38.31 Mbit/s

95th percentile per-packet one-way delay: 88.362 ms

Loss rate: 33.92%

-- Flow 1:

Average throughput: 20.06 Mbit/s

95th percentile per-packet one-way delay: 88.366 ms

Loss rate: 34.29%

-- Flow 2:

Average throughput: 19.84 Mbit/s

95th percentile per-packet one-way delay: 88.436 ms

Loss rate: 32.85%

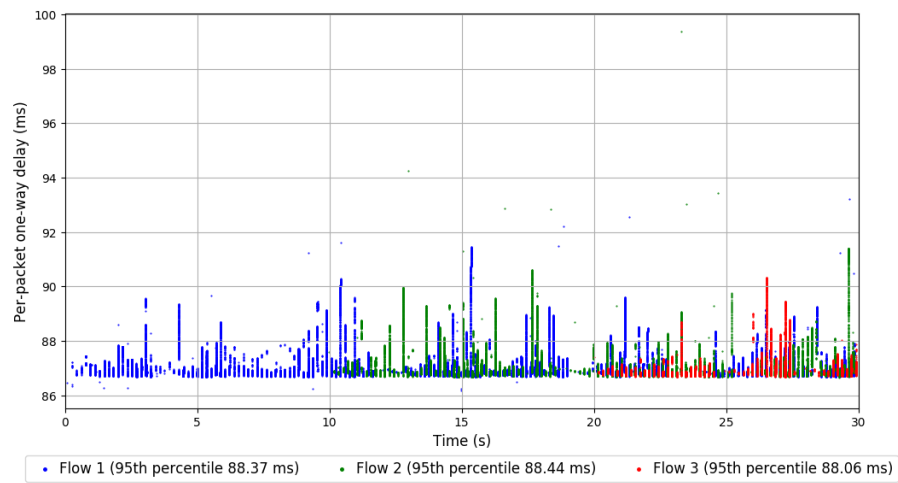
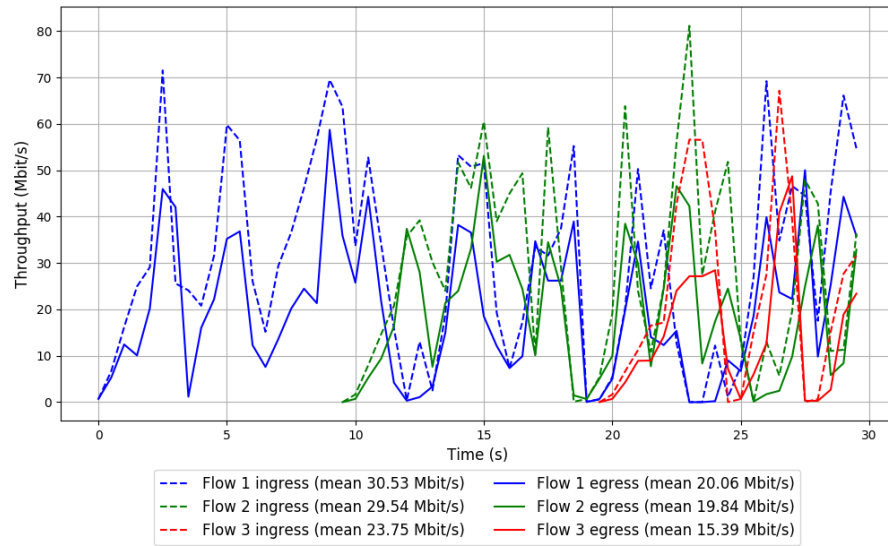
-- Flow 3:

Average throughput: 15.39 Mbit/s

95th percentile per-packet one-way delay: 88.055 ms

Loss rate: 35.19%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2017-08-12 04:21:20

End at: 2017-08-12 04:21:50

Below is generated by plot.py at 2017-08-12 06:25:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 55.46 Mbit/s

95th percentile per-packet one-way delay: 92.285 ms

Loss rate: 9.02%

-- Flow 1:

Average throughput: 3.03 Mbit/s

95th percentile per-packet one-way delay: 87.269 ms

Loss rate: 42.44%

-- Flow 2:

Average throughput: 59.67 Mbit/s

95th percentile per-packet one-way delay: 92.361 ms

Loss rate: 4.20%

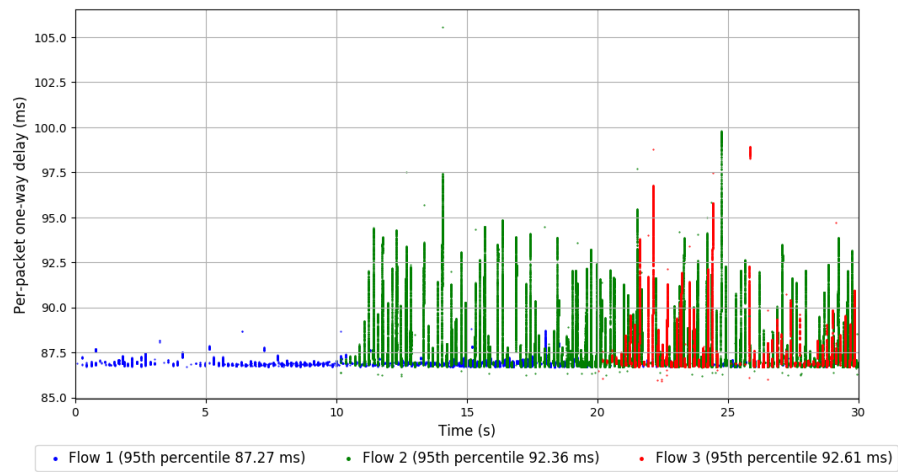
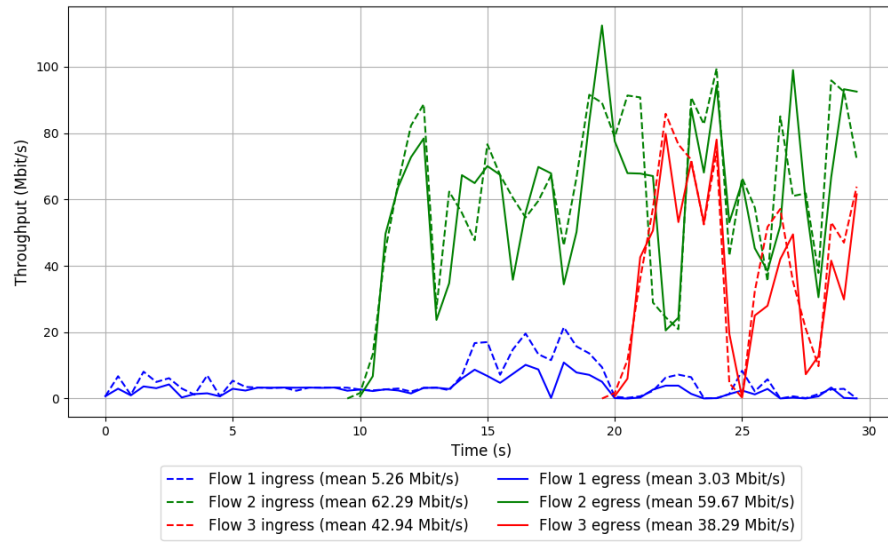
-- Flow 3:

Average throughput: 38.29 Mbit/s

95th percentile per-packet one-way delay: 92.606 ms

Loss rate: 10.83%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2017-08-12 04:34:04

End at: 2017-08-12 04:34:34

Below is generated by plot.py at 2017-08-12 06:25:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 39.50 Mbit/s

95th percentile per-packet one-way delay: 88.772 ms

Loss rate: 22.46%

-- Flow 1:

Average throughput: 31.24 Mbit/s

95th percentile per-packet one-way delay: 89.048 ms

Loss rate: 19.36%

-- Flow 2:

Average throughput: 3.03 Mbit/s

95th percentile per-packet one-way delay: 87.169 ms

Loss rate: 37.87%

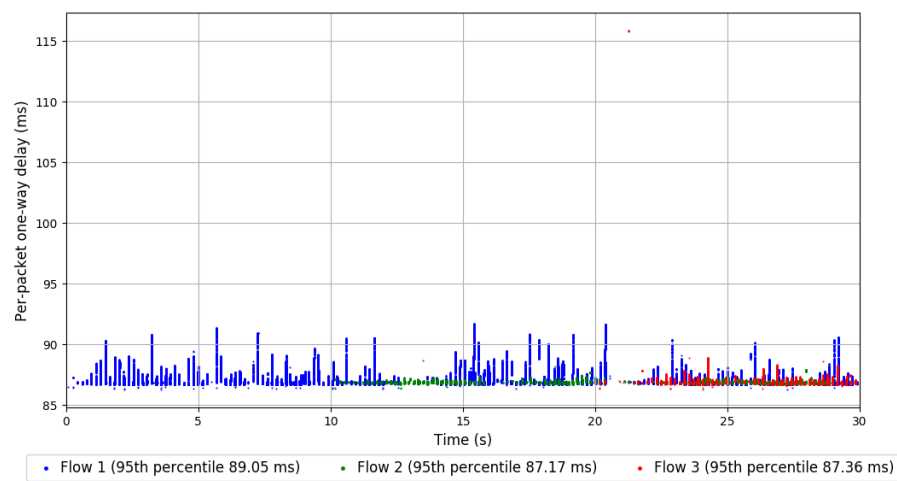
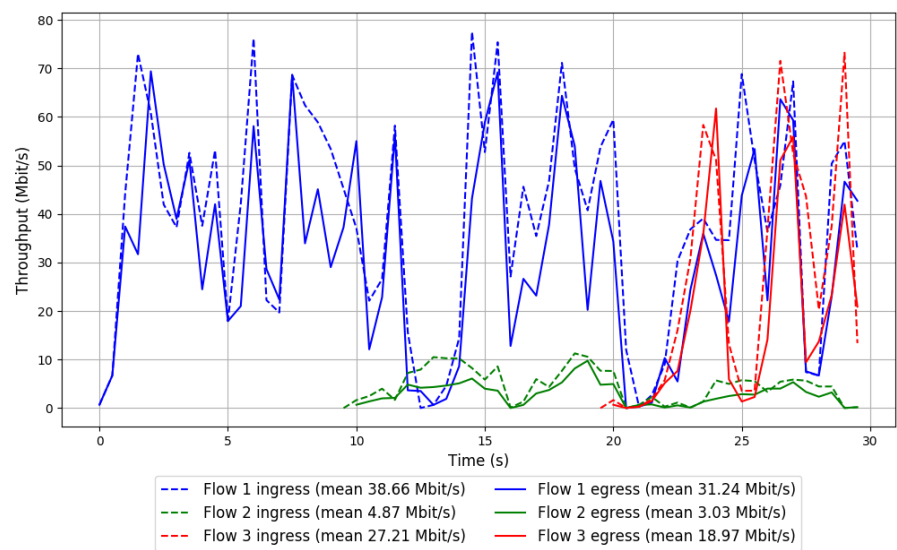
-- Flow 3:

Average throughput: 18.97 Mbit/s

95th percentile per-packet one-way delay: 87.364 ms

Loss rate: 30.29%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2017-08-12 04:46:41

End at: 2017-08-12 04:47:11

Below is generated by plot.py at 2017-08-12 06:25:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 27.98 Mbit/s

95th percentile per-packet one-way delay: 88.303 ms

Loss rate: 36.92%

-- Flow 1:

Average throughput: 22.30 Mbit/s

95th percentile per-packet one-way delay: 88.451 ms

Loss rate: 37.62%

-- Flow 2:

Average throughput: 7.33 Mbit/s

95th percentile per-packet one-way delay: 87.283 ms

Loss rate: 32.05%

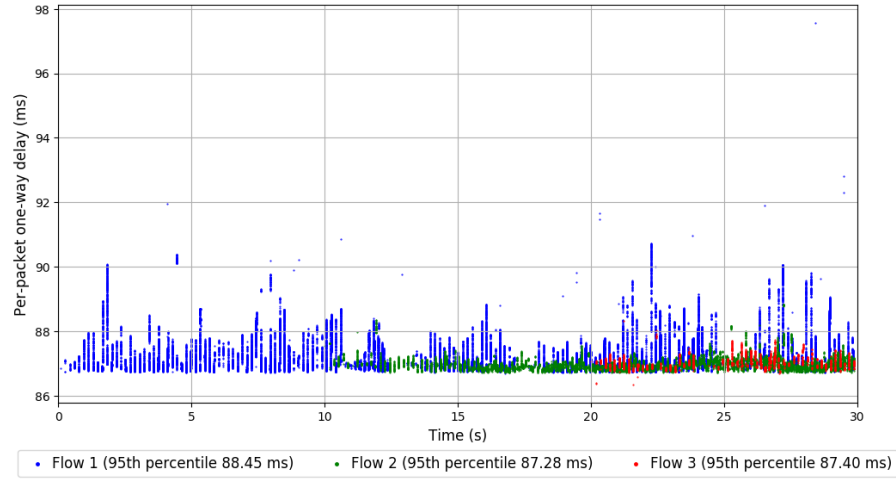
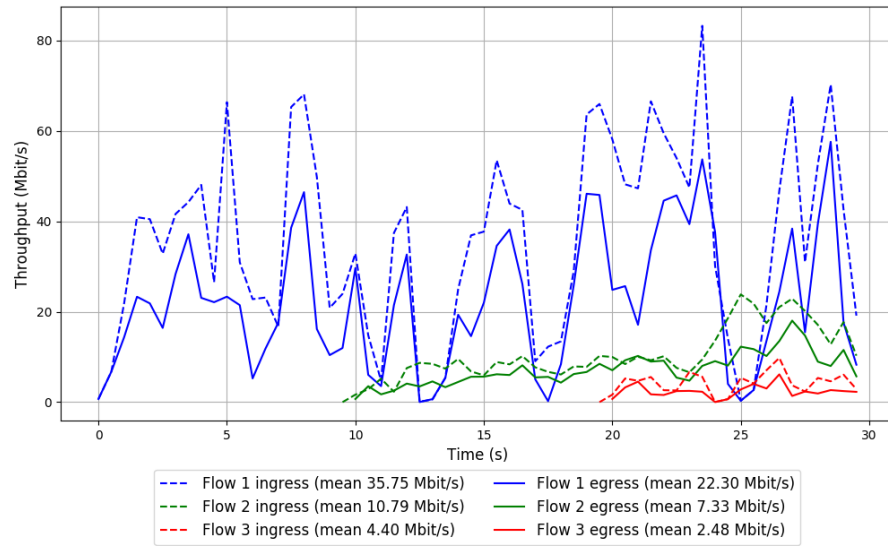
-- Flow 3:

Average throughput: 2.48 Mbit/s

95th percentile per-packet one-way delay: 87.396 ms

Loss rate: 43.71%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2017-08-12 04:59:08

End at: 2017-08-12 04:59:38

Below is generated by plot.py at 2017-08-12 06:25:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 49.42 Mbit/s

95th percentile per-packet one-way delay: 91.463 ms

Loss rate: 19.22%

-- Flow 1:

Average throughput: 4.44 Mbit/s

95th percentile per-packet one-way delay: 87.128 ms

Loss rate: 37.35%

-- Flow 2:

Average throughput: 38.99 Mbit/s

95th percentile per-packet one-way delay: 90.392 ms

Loss rate: 23.64%

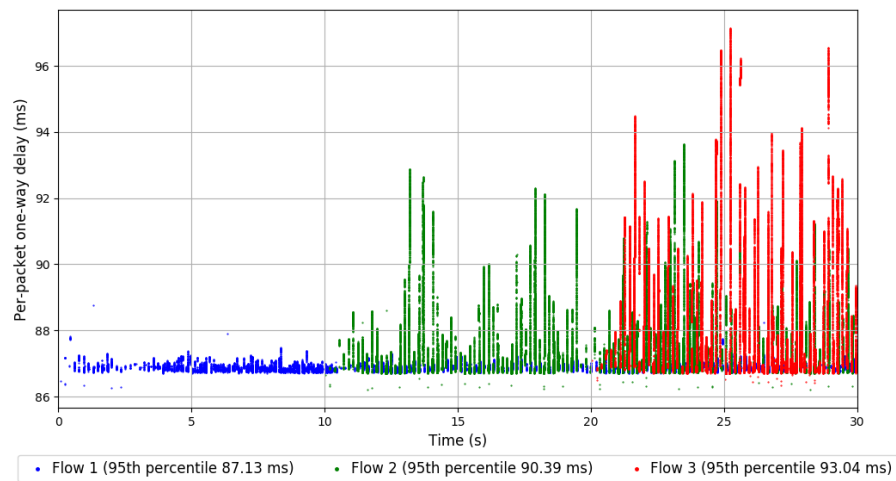
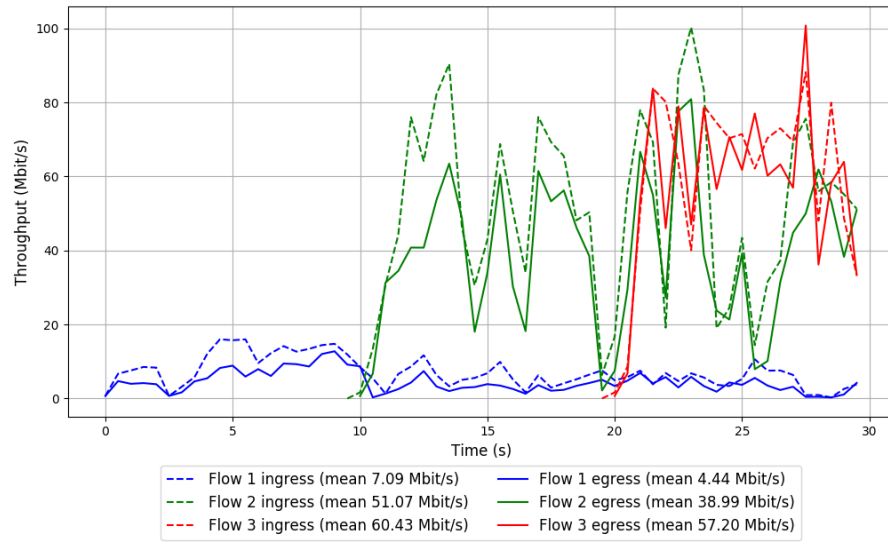
-- Flow 3:

Average throughput: 57.20 Mbit/s

95th percentile per-packet one-way delay: 93.043 ms

Loss rate: 5.31%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of CalibratedKoho

Start at: 2017-08-12 03:00:55

End at: 2017-08-12 03:01:25

Below is generated by plot.py at 2017-08-12 06:26:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 161.43 Mbit/s

95th percentile per-packet one-way delay: 105.894 ms

Loss rate: 4.21%

-- Flow 1:

Average throughput: 1.54 Mbit/s

95th percentile per-packet one-way delay: 87.821 ms

Loss rate: 71.29%

-- Flow 2:

Average throughput: 221.21 Mbit/s

95th percentile per-packet one-way delay: 106.605 ms

Loss rate: 2.13%

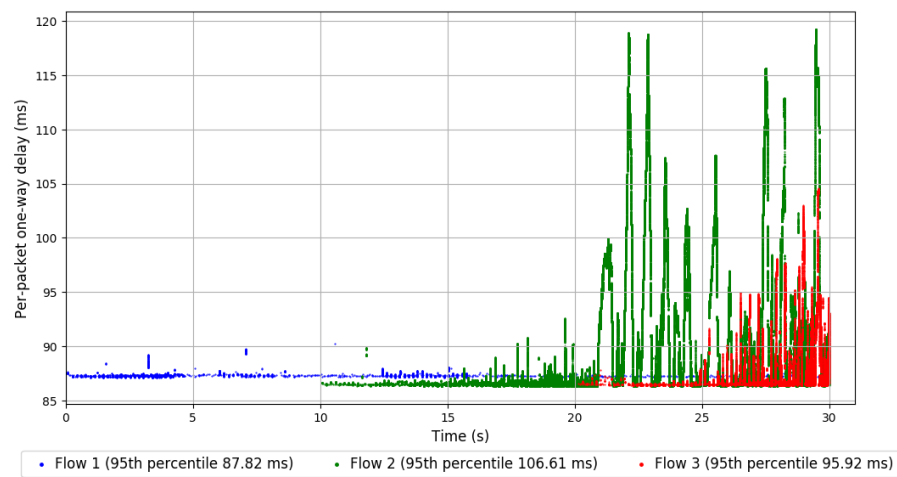
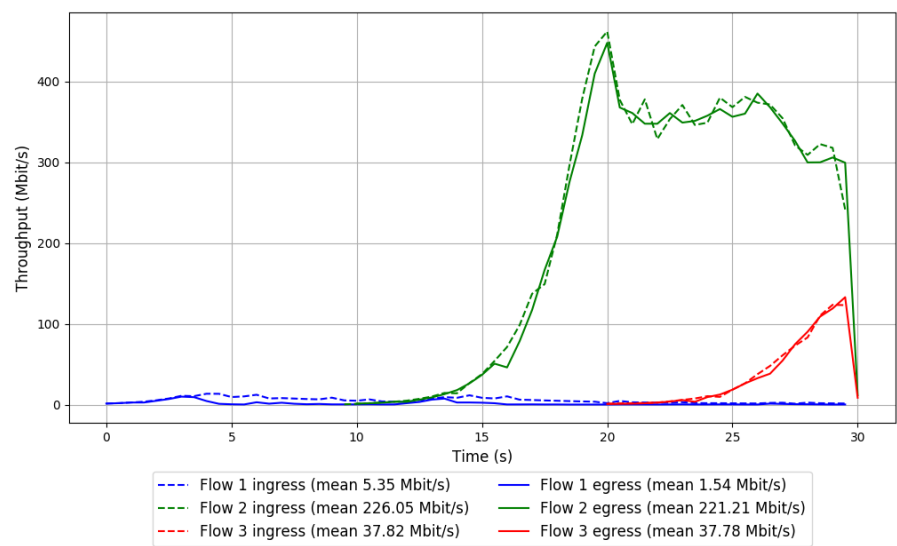
-- Flow 3:

Average throughput: 37.78 Mbit/s

95th percentile per-packet one-way delay: 95.919 ms

Loss rate: 0.60%

Run 1: Report of CalibratedKoho — Data Link



Run 2: Statistics of CalibratedKoho

Start at: 2017-08-12 03:13:56

End at: 2017-08-12 03:14:26

Below is generated by plot.py at 2017-08-12 06:26:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 280.50 Mbit/s

95th percentile per-packet one-way delay: 115.623 ms

Loss rate: 2.42%

-- Flow 1:

Average throughput: 266.11 Mbit/s

95th percentile per-packet one-way delay: 116.034 ms

Loss rate: 1.56%

-- Flow 2:

Average throughput: 0.69 Mbit/s

95th percentile per-packet one-way delay: 87.479 ms

Loss rate: 65.65%

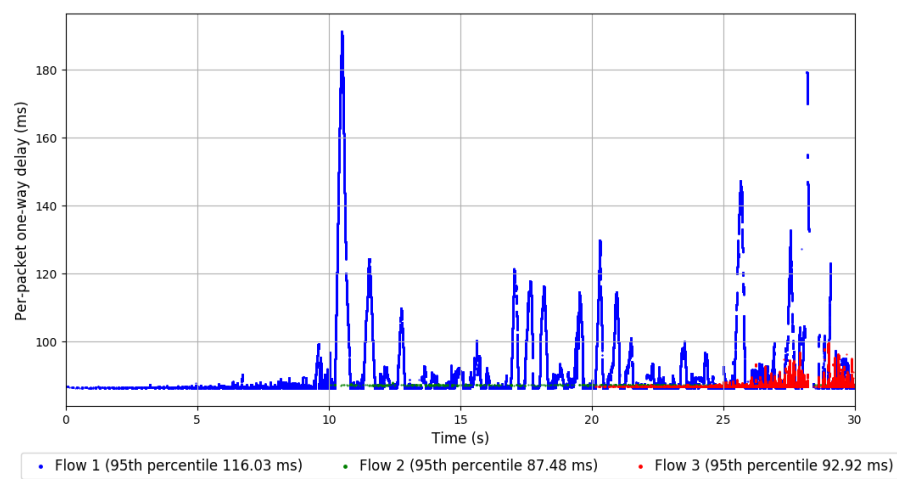
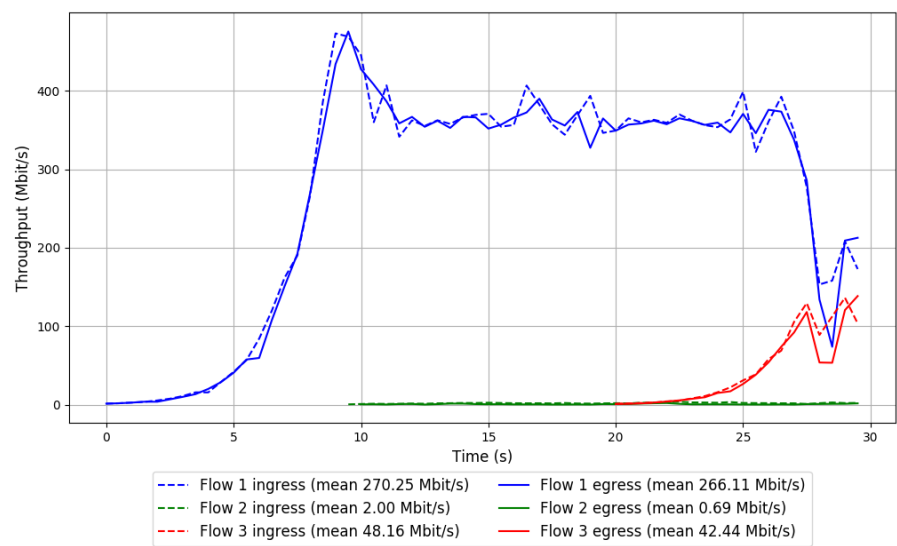
-- Flow 3:

Average throughput: 42.44 Mbit/s

95th percentile per-packet one-way delay: 92.924 ms

Loss rate: 11.89%

Run 2: Report of CalibratedKoho — Data Link



Run 3: Statistics of CalibratedKoho

Start at: 2017-08-12 03:27:16

End at: 2017-08-12 03:27:46

Below is generated by plot.py at 2017-08-12 06:26:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 172.59 Mbit/s

95th percentile per-packet one-way delay: 141.821 ms

Loss rate: 2.38%

-- Flow 1:

Average throughput: 1.57 Mbit/s

95th percentile per-packet one-way delay: 87.548 ms

Loss rate: 70.28%

-- Flow 2:

Average throughput: 227.91 Mbit/s

95th percentile per-packet one-way delay: 142.649 ms

Loss rate: 0.14%

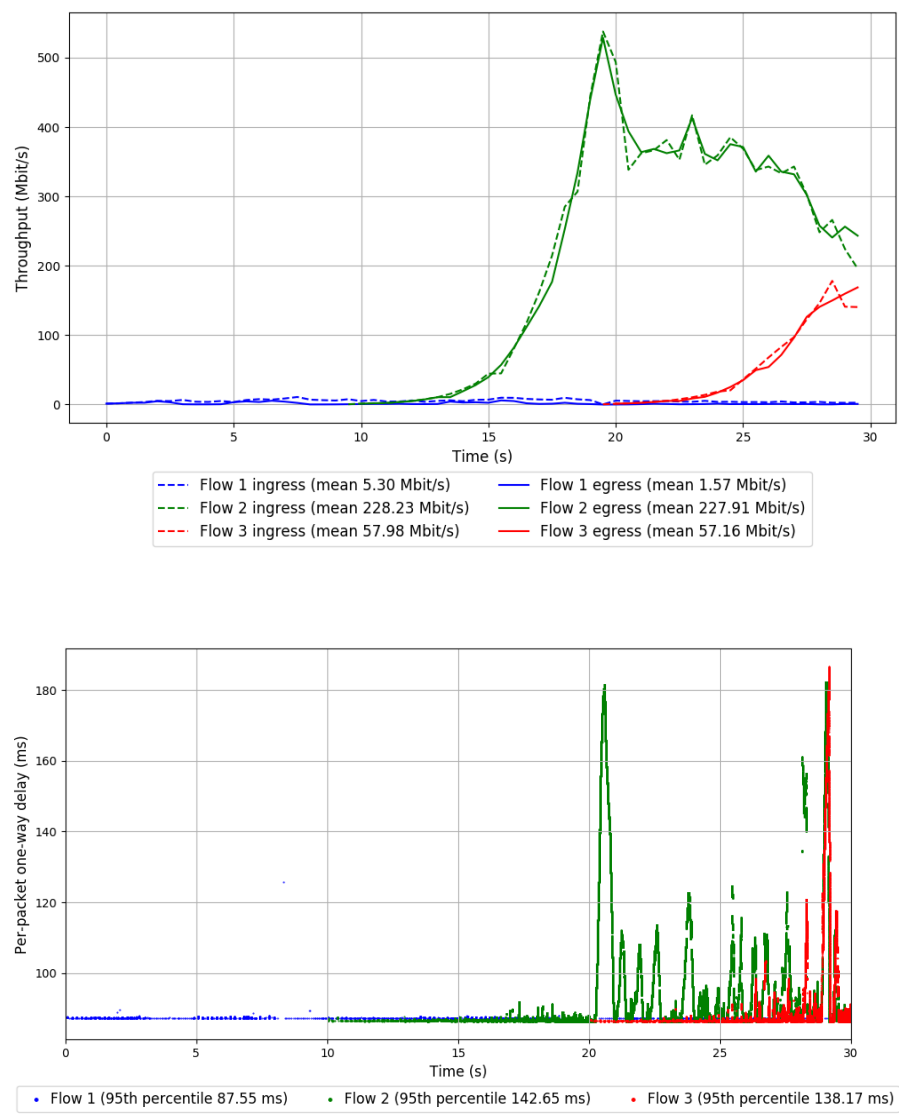
-- Flow 3:

Average throughput: 57.16 Mbit/s

95th percentile per-packet one-way delay: 138.168 ms

Loss rate: 1.42%

Run 3: Report of CalibratedKoho — Data Link



Run 4: Statistics of CalibratedKoho

Start at: 2017-08-12 03:40:38

End at: 2017-08-12 03:41:08

Below is generated by plot.py at 2017-08-12 06:27:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 164.41 Mbit/s

95th percentile per-packet one-way delay: 107.635 ms

Loss rate: 3.80%

-- Flow 1:

Average throughput: 7.90 Mbit/s

95th percentile per-packet one-way delay: 96.949 ms

Loss rate: 29.11%

-- Flow 2:

Average throughput: 234.71 Mbit/s

95th percentile per-packet one-way delay: 108.065 ms

Loss rate: 1.99%

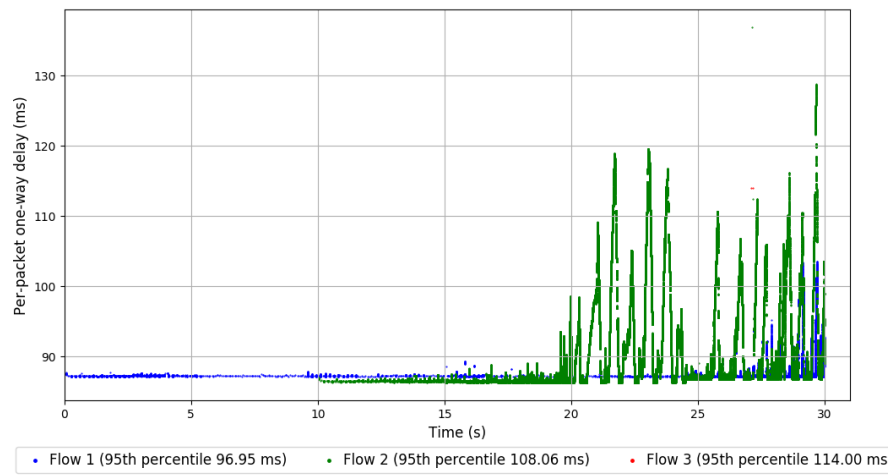
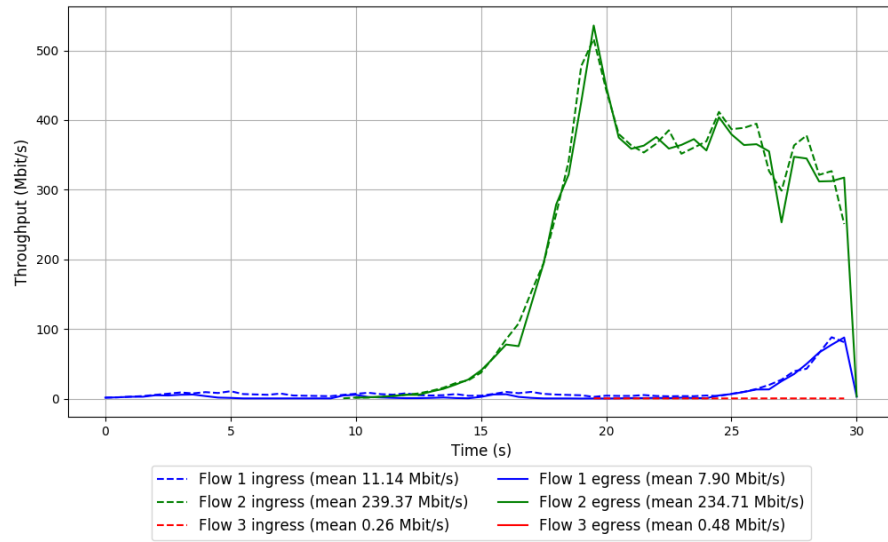
-- Flow 3:

Average throughput: 0.48 Mbit/s

95th percentile per-packet one-way delay: 113.996 ms

Loss rate: 99.08%

Run 4: Report of CalibratedKoho — Data Link



Run 5: Statistics of CalibratedKoho

Start at: 2017-08-12 03:53:22

End at: 2017-08-12 03:53:52

Below is generated by plot.py at 2017-08-12 06:27:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 139.91 Mbit/s

95th percentile per-packet one-way delay: 109.145 ms

Loss rate: 11.93%

-- Flow 1:

Average throughput: 0.93 Mbit/s

95th percentile per-packet one-way delay: 114.744 ms

Loss rate: 70.21%

-- Flow 2:

Average throughput: 188.26 Mbit/s

95th percentile per-packet one-way delay: 109.219 ms

Loss rate: 11.90%

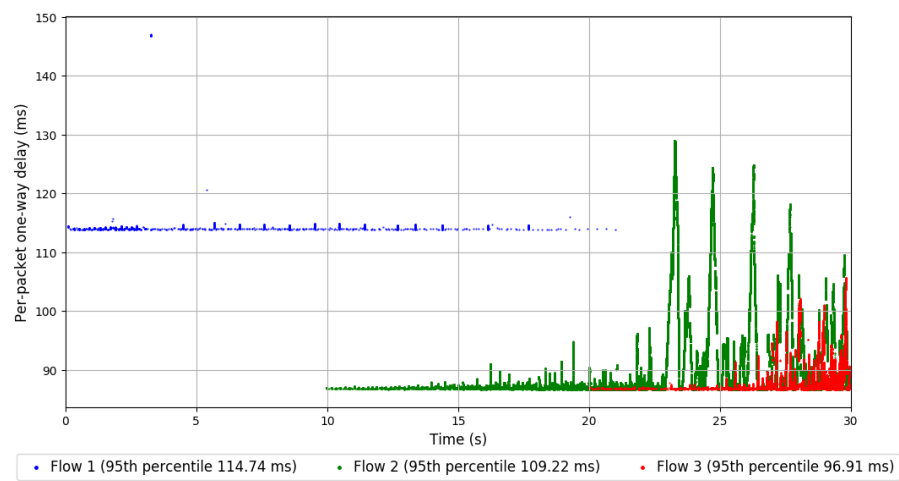
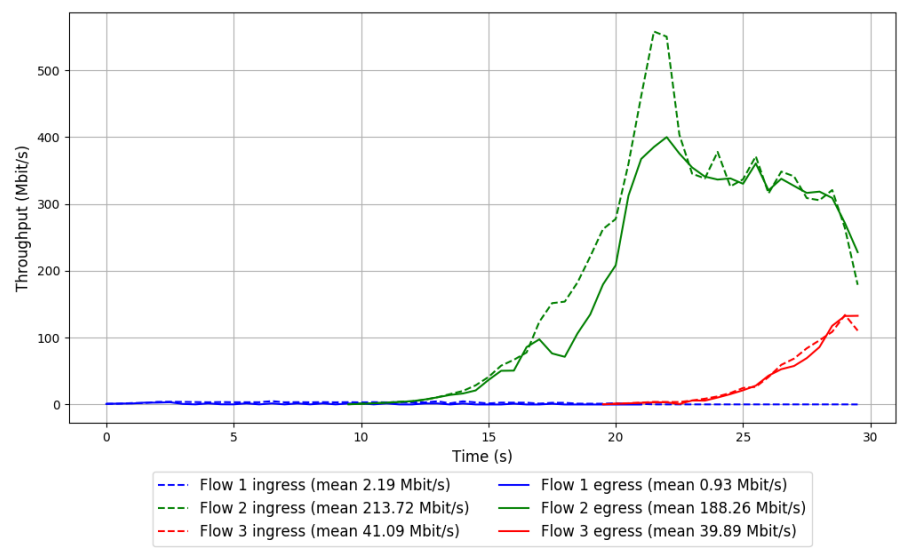
-- Flow 3:

Average throughput: 39.89 Mbit/s

95th percentile per-packet one-way delay: 96.908 ms

Loss rate: 2.93%

Run 5: Report of CalibratedKoho — Data Link



Run 6: Statistics of CalibratedKoho

Start at: 2017-08-12 04:05:08

End at: 2017-08-12 04:05:38

Below is generated by plot.py at 2017-08-12 06:27:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 311.72 Mbit/s

95th percentile per-packet one-way delay: 116.706 ms

Loss rate: 1.15%

-- Flow 1:

Average throughput: 231.84 Mbit/s

95th percentile per-packet one-way delay: 119.477 ms

Loss rate: 0.58%

-- Flow 2:

Average throughput: 119.36 Mbit/s

95th percentile per-packet one-way delay: 109.057 ms

Loss rate: 2.14%

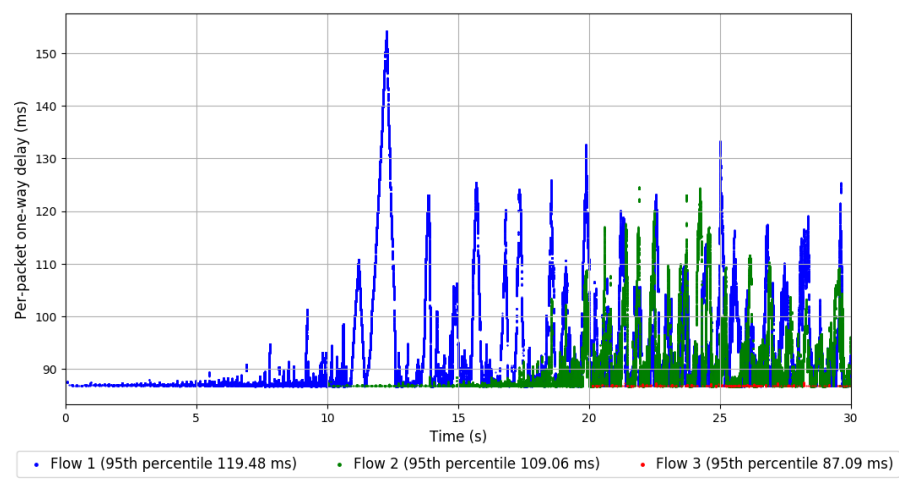
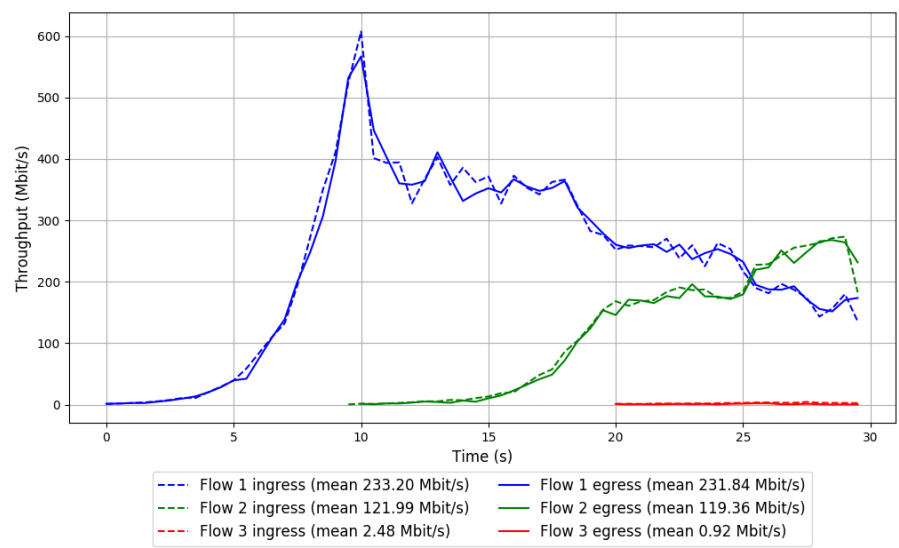
-- Flow 3:

Average throughput: 0.92 Mbit/s

95th percentile per-packet one-way delay: 87.086 ms

Loss rate: 63.06%

Run 6: Report of CalibratedKoho — Data Link



Run 7: Statistics of CalibratedKoho

Start at: 2017-08-12 04:17:36

End at: 2017-08-12 04:18:06

Below is generated by plot.py at 2017-08-12 06:28:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 266.26 Mbit/s

95th percentile per-packet one-way delay: 115.162 ms

Loss rate: 10.51%

-- Flow 1:

Average throughput: 195.17 Mbit/s

95th percentile per-packet one-way delay: 116.536 ms

Loss rate: 10.69%

-- Flow 2:

Average throughput: 85.94 Mbit/s

95th percentile per-packet one-way delay: 116.114 ms

Loss rate: 10.77%

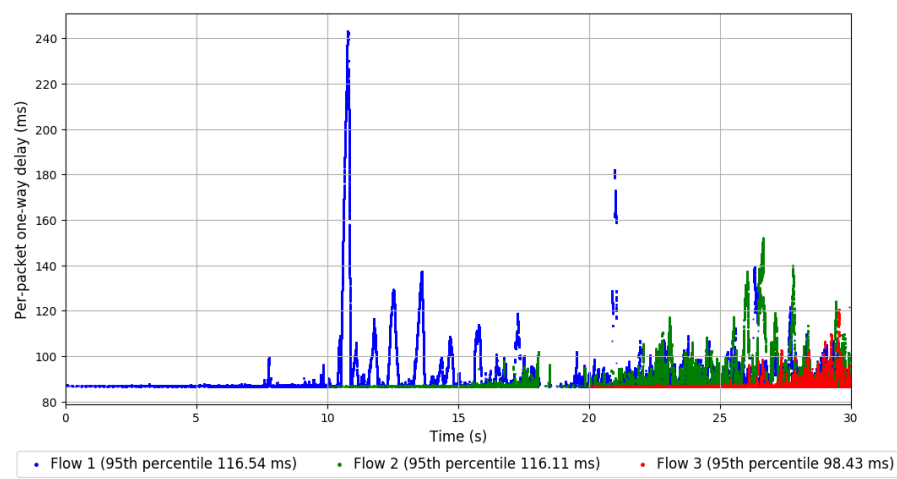
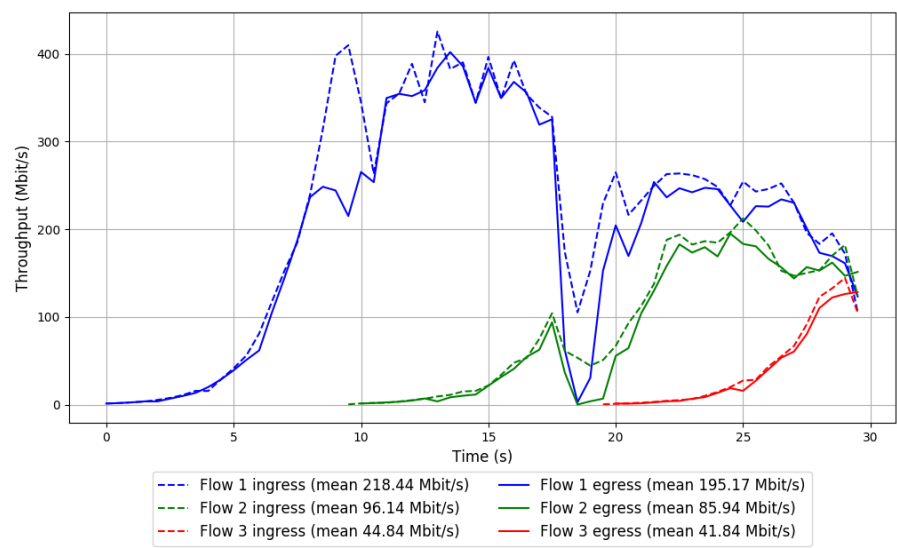
-- Flow 3:

Average throughput: 41.84 Mbit/s

95th percentile per-packet one-way delay: 98.428 ms

Loss rate: 6.71%

Run 7: Report of CalibratedKoho — Data Link



Run 8: Statistics of CalibratedKoho

Start at: 2017-08-12 04:30:26

End at: 2017-08-12 04:30:56

Below is generated by plot.py at 2017-08-12 06:28:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 272.32 Mbit/s

95th percentile per-packet one-way delay: 115.982 ms

Loss rate: 3.23%

-- Flow 1:

Average throughput: 259.05 Mbit/s

95th percentile per-packet one-way delay: 116.151 ms

Loss rate: 2.02%

-- Flow 2:

Average throughput: 1.38 Mbit/s

95th percentile per-packet one-way delay: 87.197 ms

Loss rate: 65.84%

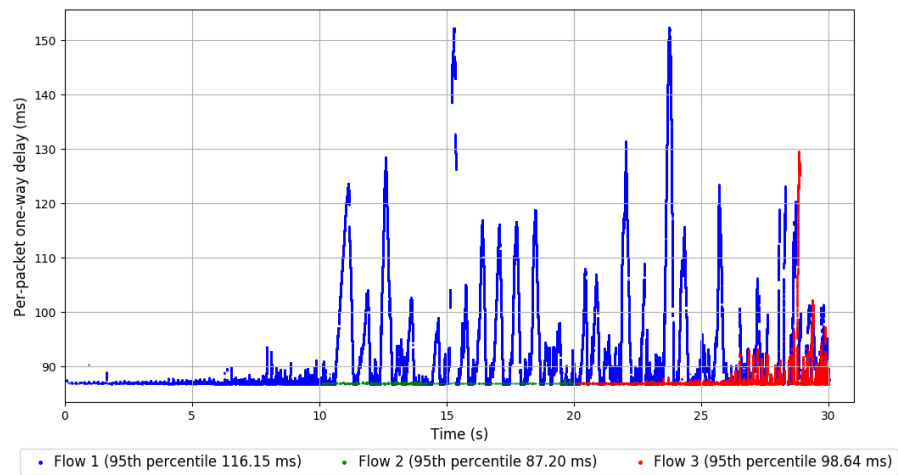
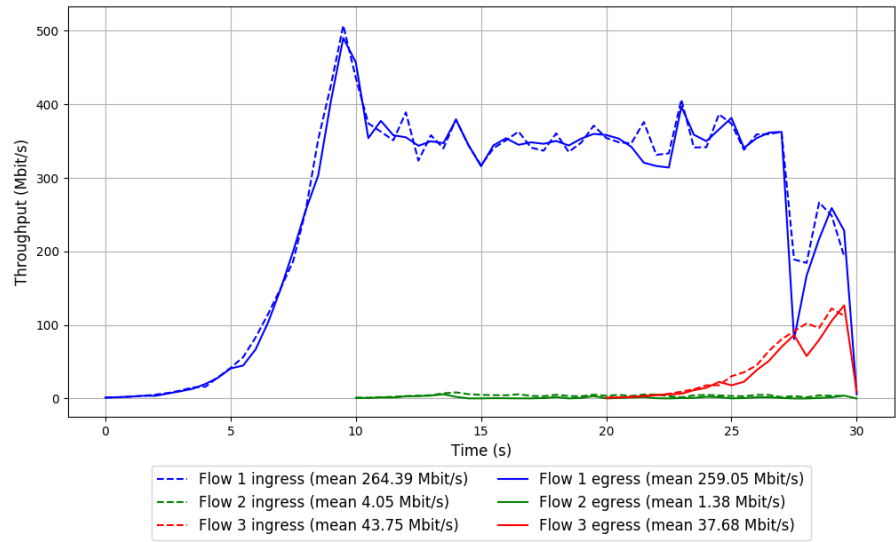
-- Flow 3:

Average throughput: 37.68 Mbit/s

95th percentile per-packet one-way delay: 98.645 ms

Loss rate: 13.87%

Run 8: Report of CalibratedKoho — Data Link



Run 9: Statistics of CalibratedKoho

Start at: 2017-08-12 04:42:58

End at: 2017-08-12 04:43:28

Below is generated by plot.py at 2017-08-12 06:28:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 277.70 Mbit/s

95th percentile per-packet one-way delay: 116.633 ms

Loss rate: 7.14%

-- Flow 1:

Average throughput: 188.11 Mbit/s

95th percentile per-packet one-way delay: 118.571 ms

Loss rate: 8.12%

-- Flow 2:

Average throughput: 113.20 Mbit/s

95th percentile per-packet one-way delay: 111.513 ms

Loss rate: 5.70%

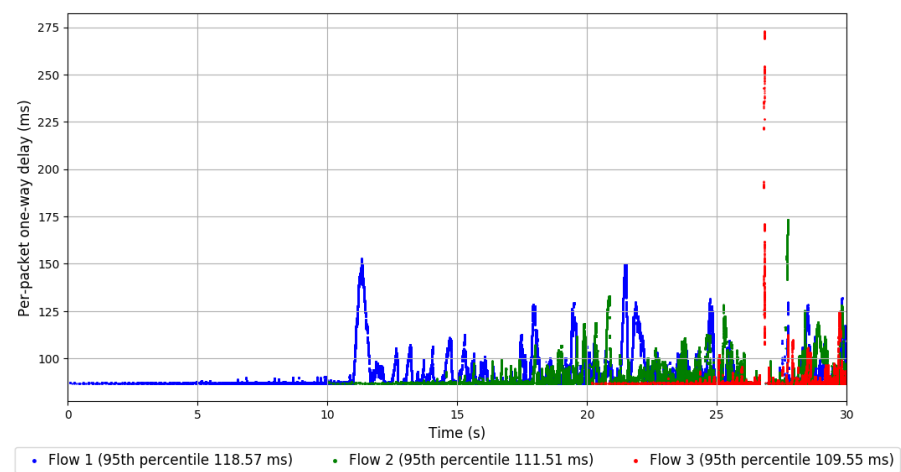
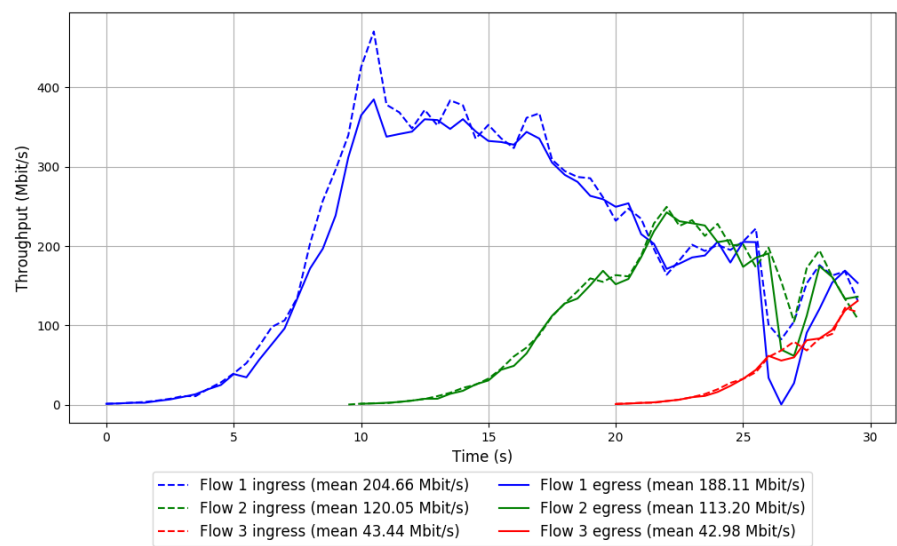
-- Flow 3:

Average throughput: 42.98 Mbit/s

95th percentile per-packet one-way delay: 109.554 ms

Loss rate: 1.06%

Run 9: Report of CalibratedKoho — Data Link



Run 10: Statistics of CalibratedKoho

Start at: 2017-08-12 04:55:23

End at: 2017-08-12 04:55:53

Below is generated by plot.py at 2017-08-12 06:29:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 313.58 Mbit/s

95th percentile per-packet one-way delay: 110.225 ms

Loss rate: 0.37%

-- Flow 1:

Average throughput: 217.40 Mbit/s

95th percentile per-packet one-way delay: 110.218 ms

Loss rate: 0.41%

-- Flow 2:

Average throughput: 117.46 Mbit/s

95th percentile per-packet one-way delay: 110.814 ms

Loss rate: 0.35%

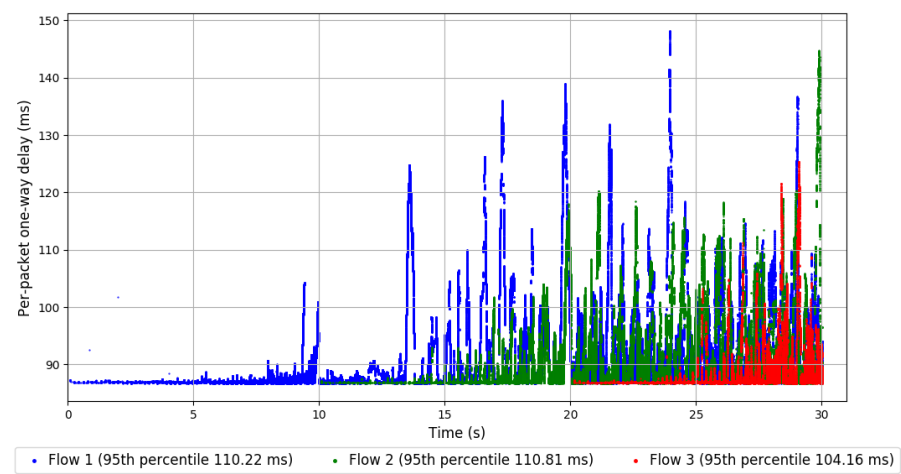
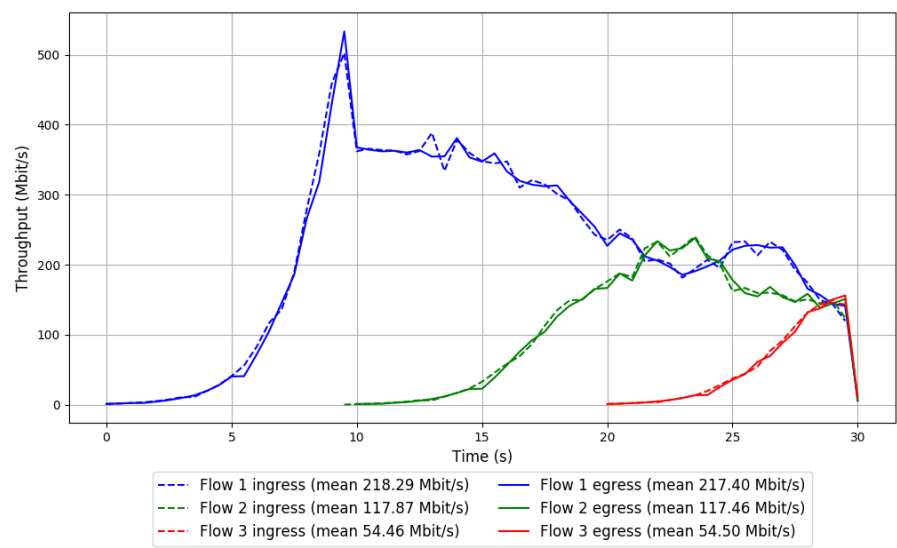
-- Flow 3:

Average throughput: 54.50 Mbit/s

95th percentile per-packet one-way delay: 104.155 ms

Loss rate: 0.02%

Run 10: Report of CalibratedKoho — Data Link



Run 1: Statistics of Copa

Start at: 2017-08-12 02:59:46

End at: 2017-08-12 03:00:16

Below is generated by plot.py at 2017-08-12 06:29:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 133.75 Mbit/s

95th percentile per-packet one-way delay: 87.236 ms

Loss rate: 2.90%

-- Flow 1:

Average throughput: 76.47 Mbit/s

95th percentile per-packet one-way delay: 86.925 ms

Loss rate: 0.18%

-- Flow 2:

Average throughput: 56.63 Mbit/s

95th percentile per-packet one-way delay: 86.893 ms

Loss rate: 0.07%

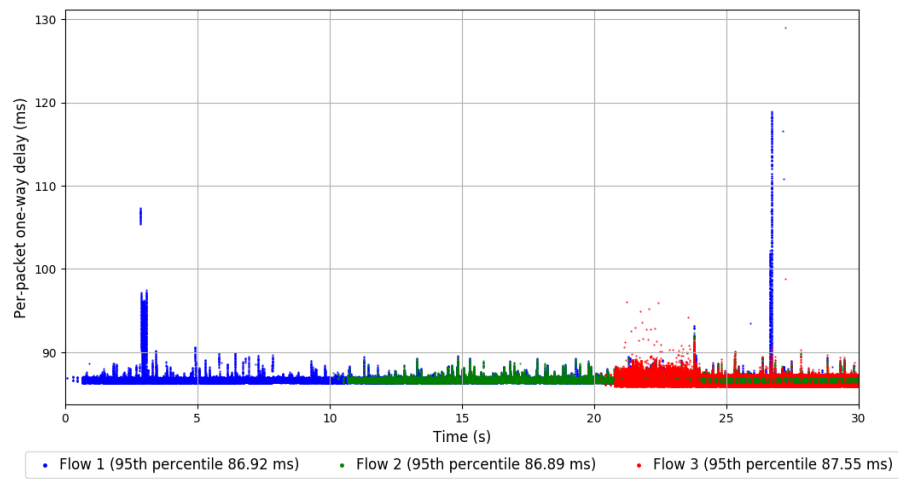
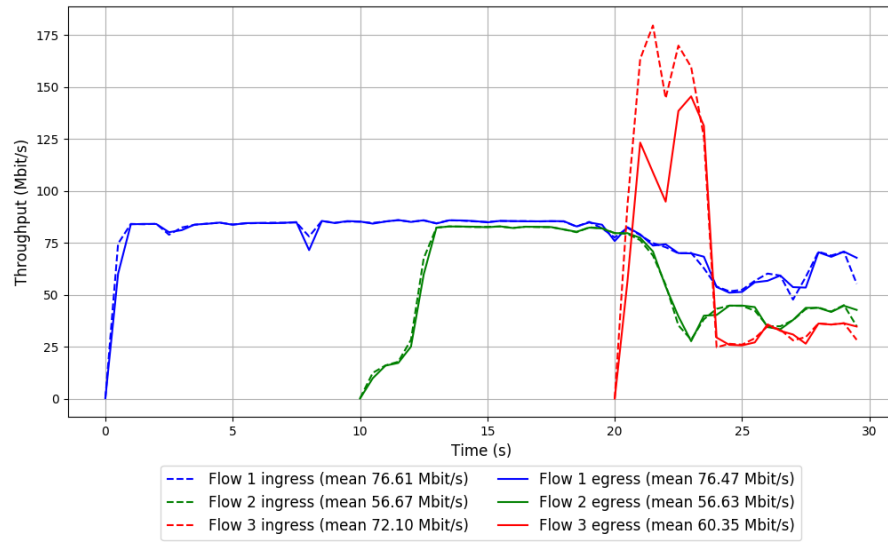
-- Flow 3:

Average throughput: 60.35 Mbit/s

95th percentile per-packet one-way delay: 87.547 ms

Loss rate: 16.30%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2017-08-12 03:12:59

End at: 2017-08-12 03:13:29

Below is generated by plot.py at 2017-08-12 06:30:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 107.67 Mbit/s

95th percentile per-packet one-way delay: 86.592 ms

Loss rate: 0.36%

-- Flow 1:

Average throughput: 76.67 Mbit/s

95th percentile per-packet one-way delay: 86.604 ms

Loss rate: 0.53%

-- Flow 2:

Average throughput: 48.82 Mbit/s

95th percentile per-packet one-way delay: 86.590 ms

Loss rate: 0.14%

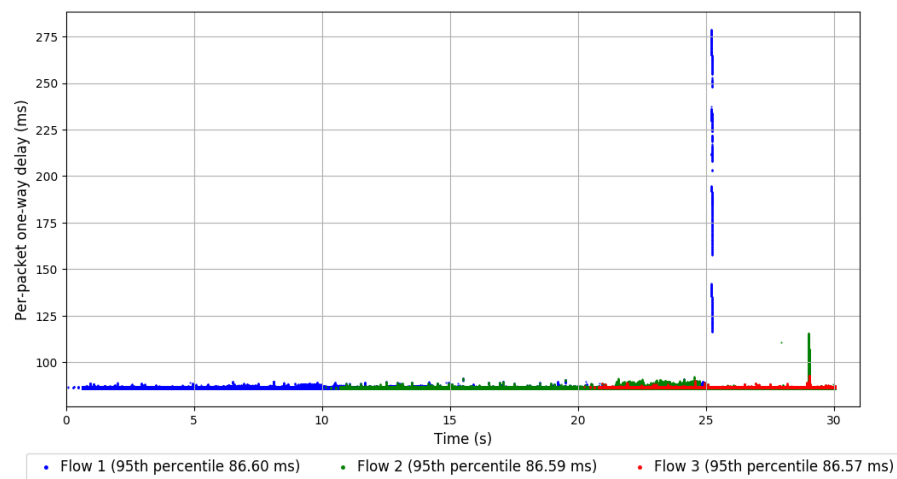
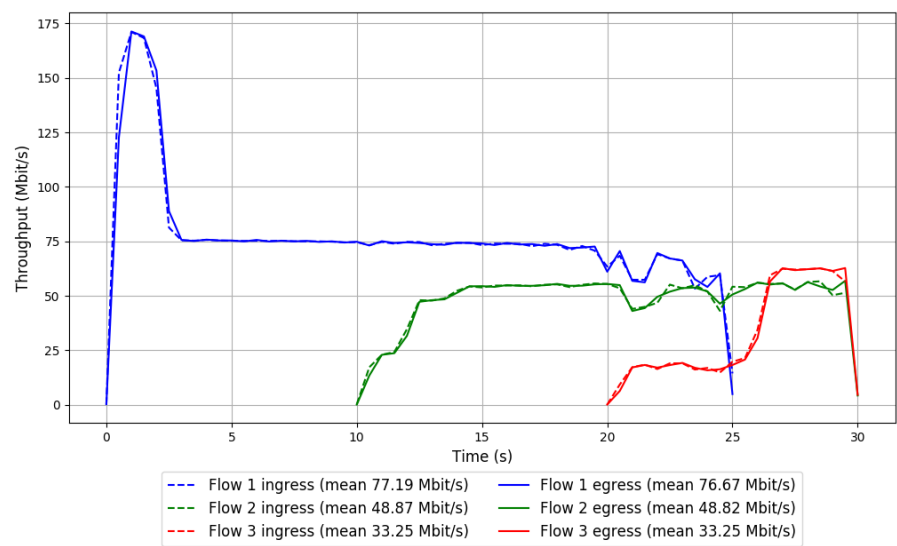
-- Flow 3:

Average throughput: 33.25 Mbit/s

95th percentile per-packet one-way delay: 86.572 ms

Loss rate: 0.00%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2017-08-12 03:26:06

End at: 2017-08-12 03:26:36

Below is generated by plot.py at 2017-08-12 06:30:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 131.24 Mbit/s

95th percentile per-packet one-way delay: 87.087 ms

Loss rate: 0.28%

-- Flow 1:

Average throughput: 74.69 Mbit/s

95th percentile per-packet one-way delay: 87.194 ms

Loss rate: 0.50%

-- Flow 2:

Average throughput: 60.05 Mbit/s

95th percentile per-packet one-way delay: 86.757 ms

Loss rate: 0.00%

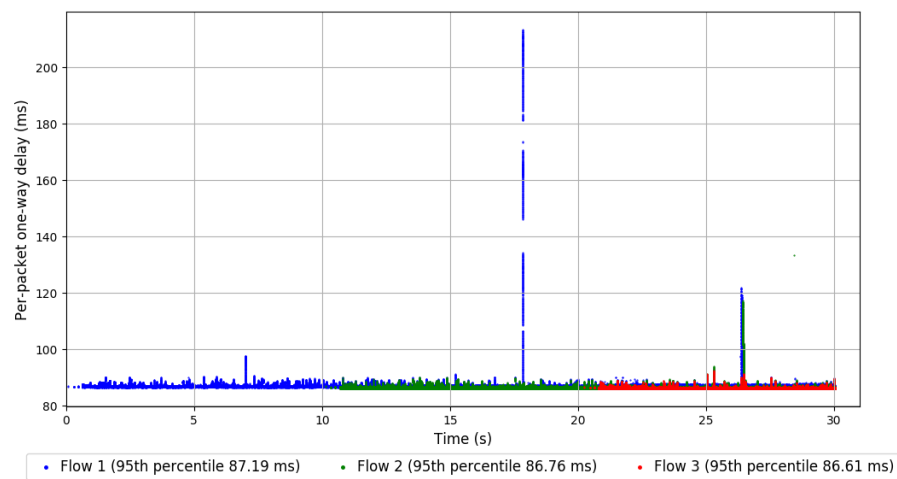
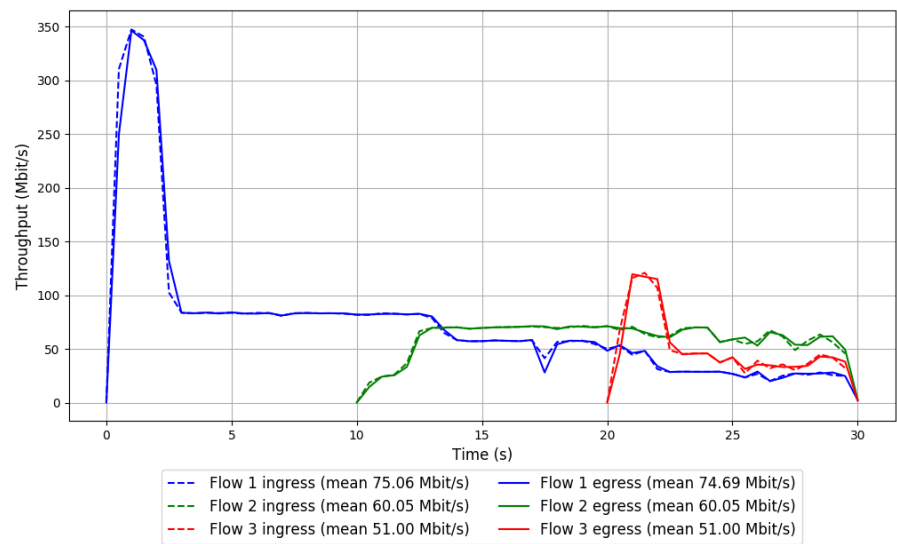
-- Flow 3:

Average throughput: 51.00 Mbit/s

95th percentile per-packet one-way delay: 86.614 ms

Loss rate: 0.00%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2017-08-12 03:39:15

End at: 2017-08-12 03:39:45

Below is generated by plot.py at 2017-08-12 06:31:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 135.77 Mbit/s

95th percentile per-packet one-way delay: 87.170 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 92.98 Mbit/s

95th percentile per-packet one-way delay: 86.841 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 62.77 Mbit/s

95th percentile per-packet one-way delay: 87.209 ms

Loss rate: 0.18%

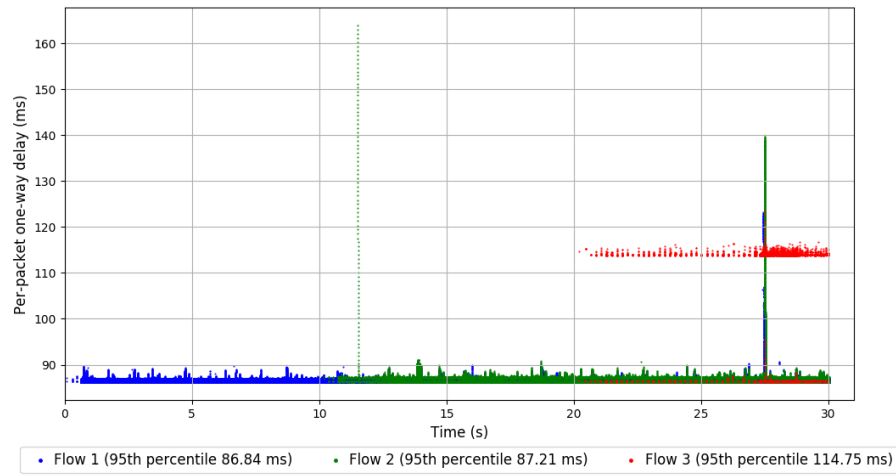
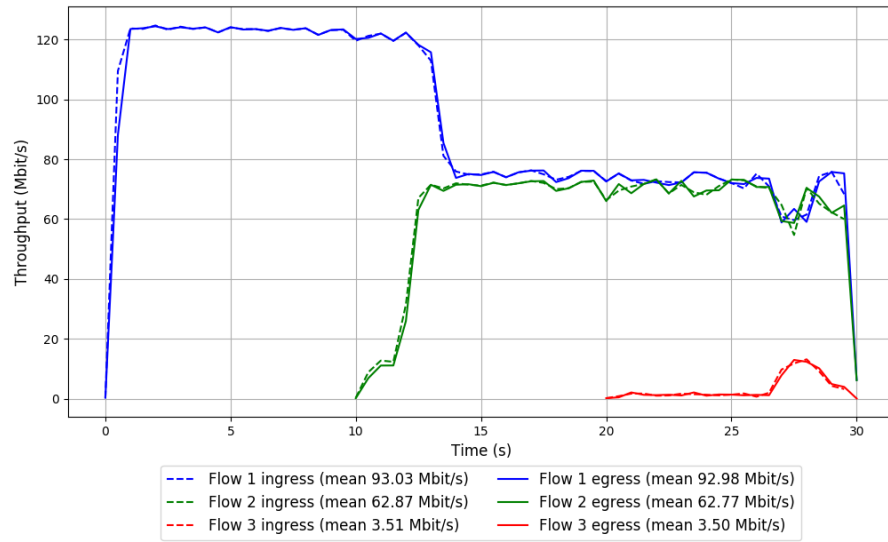
-- Flow 3:

Average throughput: 3.50 Mbit/s

95th percentile per-packet one-way delay: 114.752 ms

Loss rate: 0.00%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2017-08-12 03:52:22

End at: 2017-08-12 03:52:52

Below is generated by plot.py at 2017-08-12 06:31:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 102.51 Mbit/s

95th percentile per-packet one-way delay: 87.771 ms

Loss rate: 0.37%

-- Flow 1:

Average throughput: 94.77 Mbit/s

95th percentile per-packet one-way delay: 86.950 ms

Loss rate: 0.40%

-- Flow 2:

Average throughput: 11.70 Mbit/s

95th percentile per-packet one-way delay: 113.980 ms

Loss rate: 0.01%

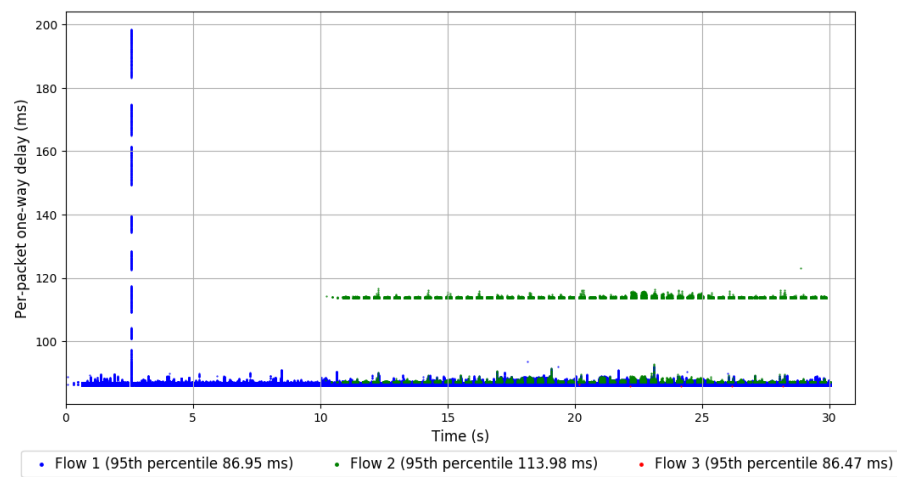
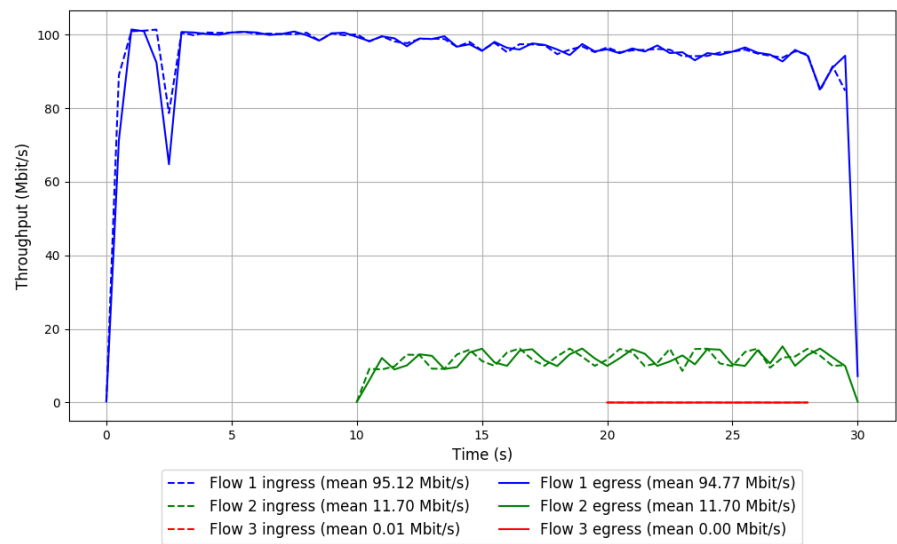
-- Flow 3:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 86.470 ms

Loss rate: 92.35%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2017-08-12 04:04:07

End at: 2017-08-12 04:04:37

Below is generated by plot.py at 2017-08-12 06:32:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 145.97 Mbit/s

95th percentile per-packet one-way delay: 86.846 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 98.45 Mbit/s

95th percentile per-packet one-way delay: 86.845 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 56.89 Mbit/s

95th percentile per-packet one-way delay: 86.837 ms

Loss rate: 0.09%

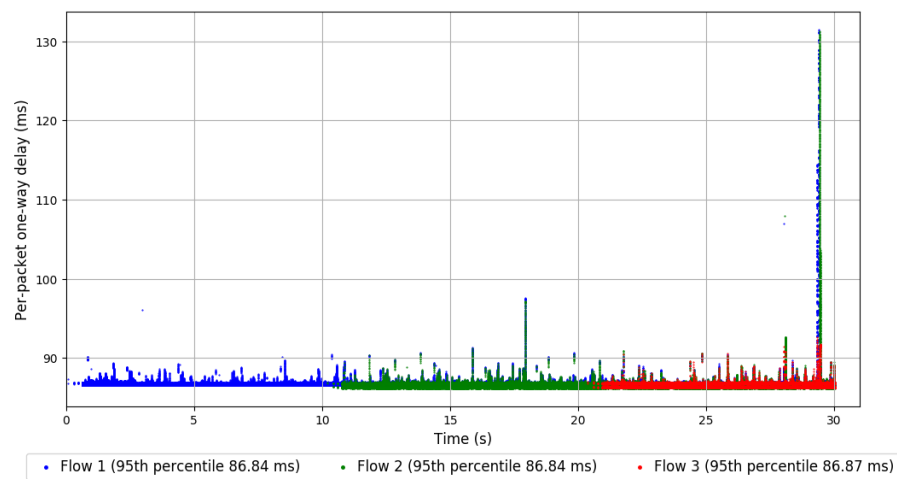
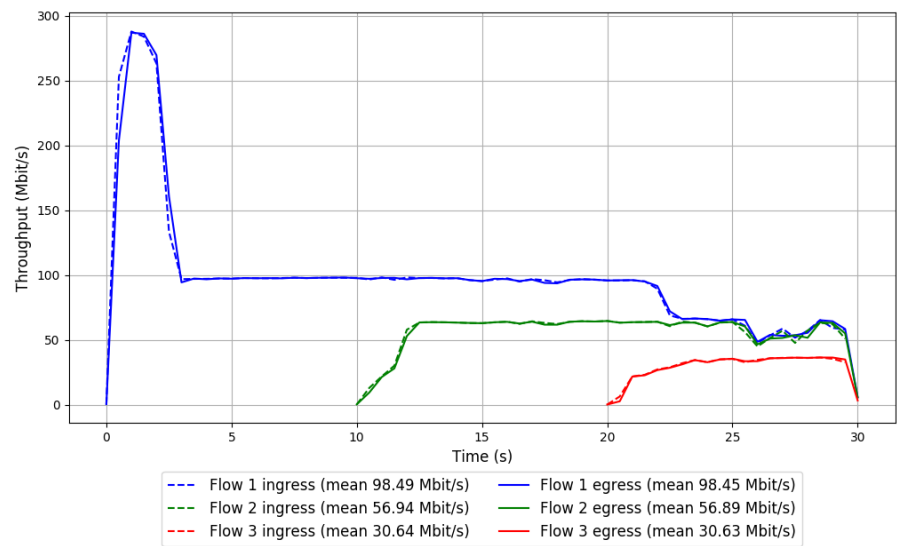
-- Flow 3:

Average throughput: 30.63 Mbit/s

95th percentile per-packet one-way delay: 86.869 ms

Loss rate: 0.01%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2017-08-12 04:16:40

End at: 2017-08-12 04:17:10

Below is generated by plot.py at 2017-08-12 06:32:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 115.70 Mbit/s

95th percentile per-packet one-way delay: 87.190 ms

Loss rate: 0.19%

-- Flow 1:

Average throughput: 97.91 Mbit/s

95th percentile per-packet one-way delay: 87.193 ms

Loss rate: 0.12%

-- Flow 2:

Average throughput: 15.90 Mbit/s

95th percentile per-packet one-way delay: 87.809 ms

Loss rate: 3.01%

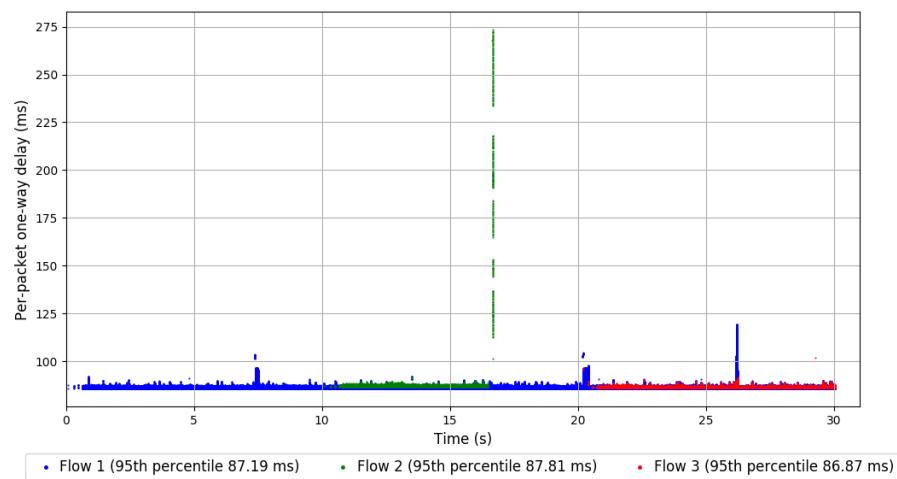
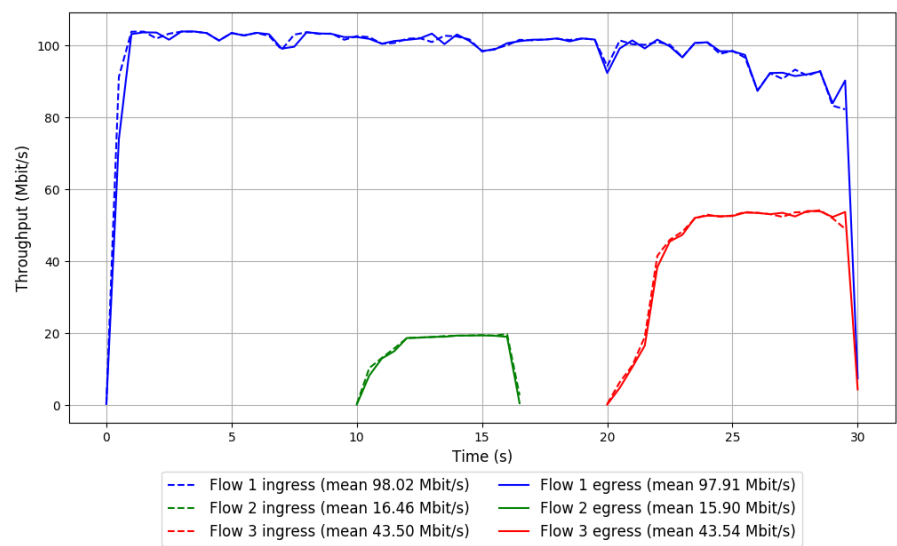
-- Flow 3:

Average throughput: 43.54 Mbit/s

95th percentile per-packet one-way delay: 86.868 ms

Loss rate: 0.00%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2017-08-12 04:29:26

End at: 2017-08-12 04:29:56

Below is generated by plot.py at 2017-08-12 06:32:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 144.61 Mbit/s

95th percentile per-packet one-way delay: 87.038 ms

Loss rate: 0.21%

-- Flow 1:

Average throughput: 83.17 Mbit/s

95th percentile per-packet one-way delay: 87.273 ms

Loss rate: 0.11%

-- Flow 2:

Average throughput: 67.24 Mbit/s

95th percentile per-packet one-way delay: 86.861 ms

Loss rate: 0.28%

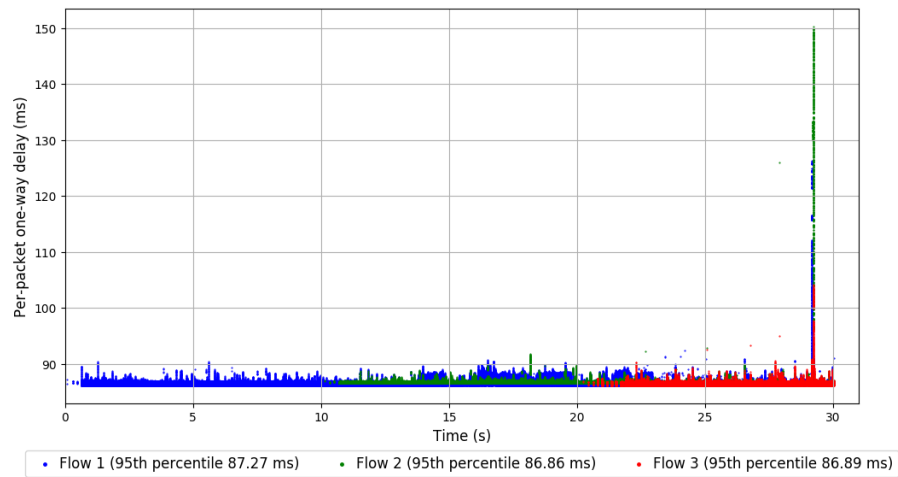
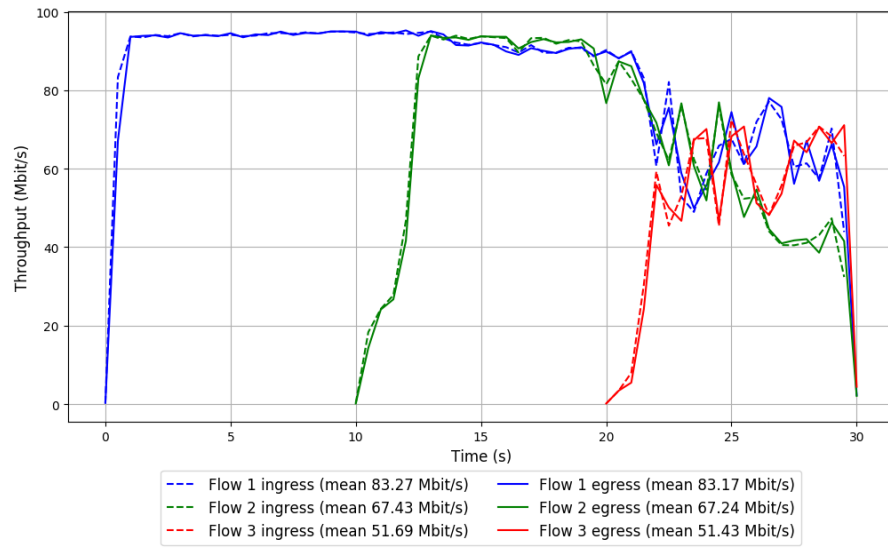
-- Flow 3:

Average throughput: 51.43 Mbit/s

95th percentile per-packet one-way delay: 86.887 ms

Loss rate: 0.50%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2017-08-12 04:41:59

End at: 2017-08-12 04:42:29

Below is generated by plot.py at 2017-08-12 06:32:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 123.34 Mbit/s

95th percentile per-packet one-way delay: 87.176 ms

Loss rate: 0.52%

-- Flow 1:

Average throughput: 60.69 Mbit/s

95th percentile per-packet one-way delay: 87.194 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 71.92 Mbit/s

95th percentile per-packet one-way delay: 86.899 ms

Loss rate: 0.93%

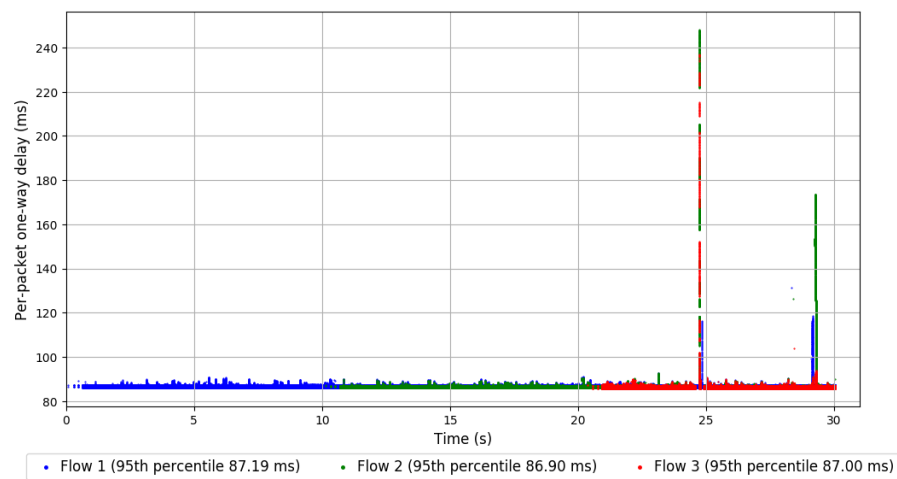
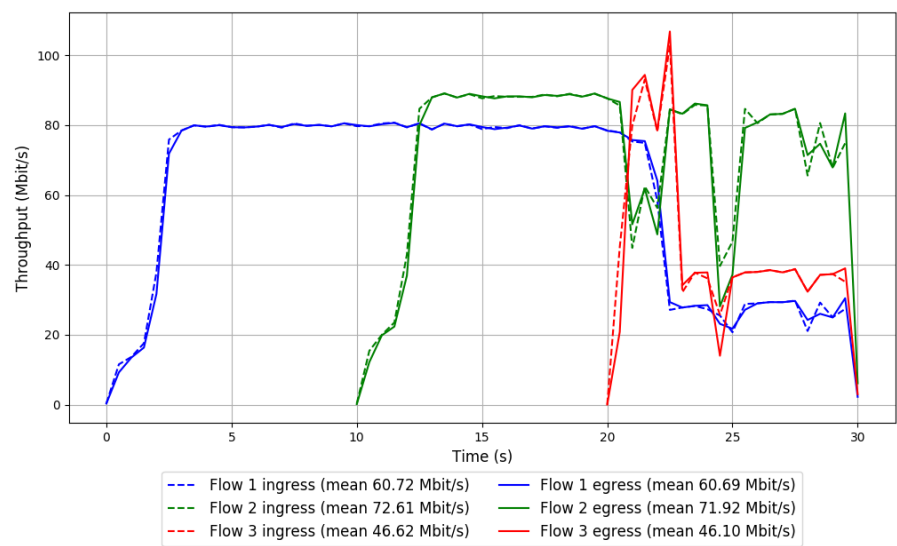
-- Flow 3:

Average throughput: 46.10 Mbit/s

95th percentile per-packet one-way delay: 87.003 ms

Loss rate: 1.11%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2017-08-12 04:54:25

End at: 2017-08-12 04:54:55

Below is generated by plot.py at 2017-08-12 06:33:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 128.19 Mbit/s

95th percentile per-packet one-way delay: 86.898 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 81.76 Mbit/s

95th percentile per-packet one-way delay: 86.915 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 59.29 Mbit/s

95th percentile per-packet one-way delay: 86.855 ms

Loss rate: 0.02%

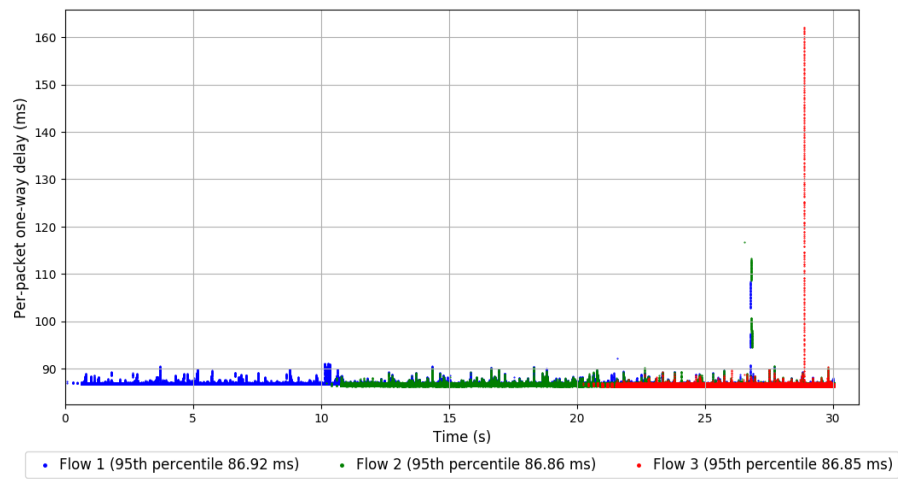
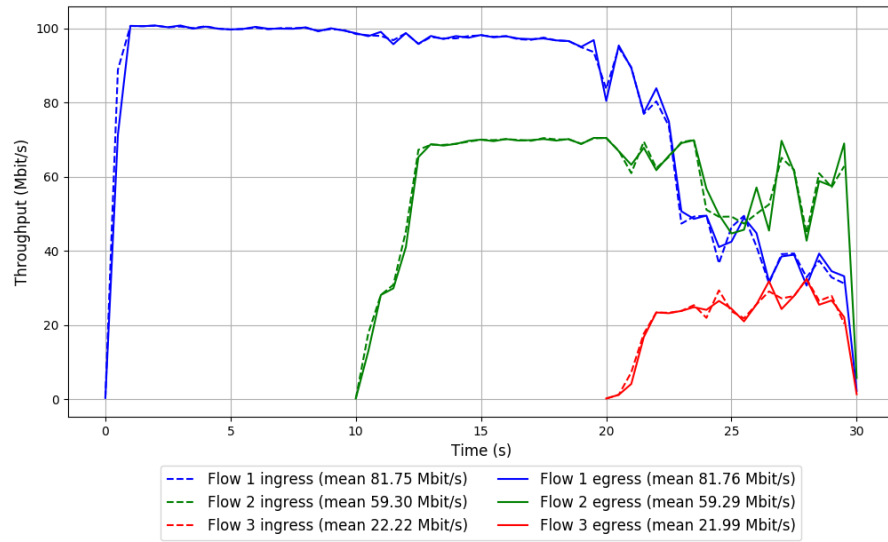
-- Flow 3:

Average throughput: 21.99 Mbit/s

95th percentile per-packet one-way delay: 86.852 ms

Loss rate: 1.15%

Run 10: Report of Copa — Data Link

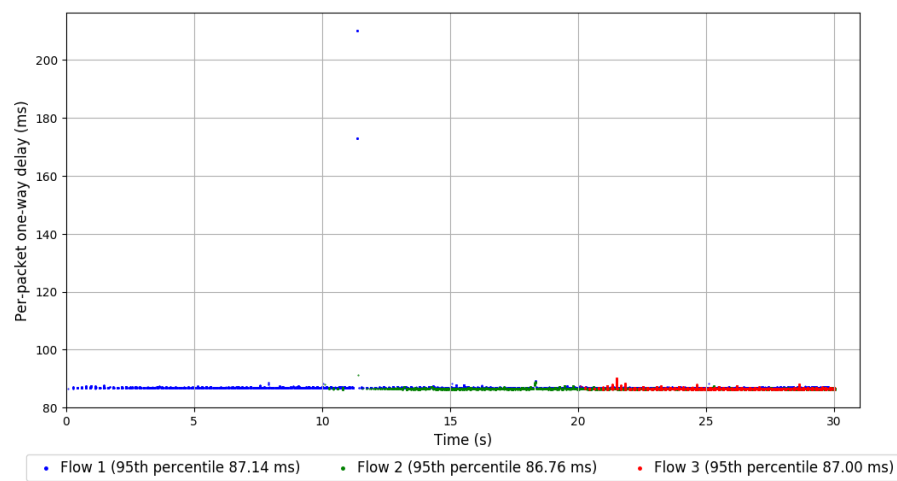
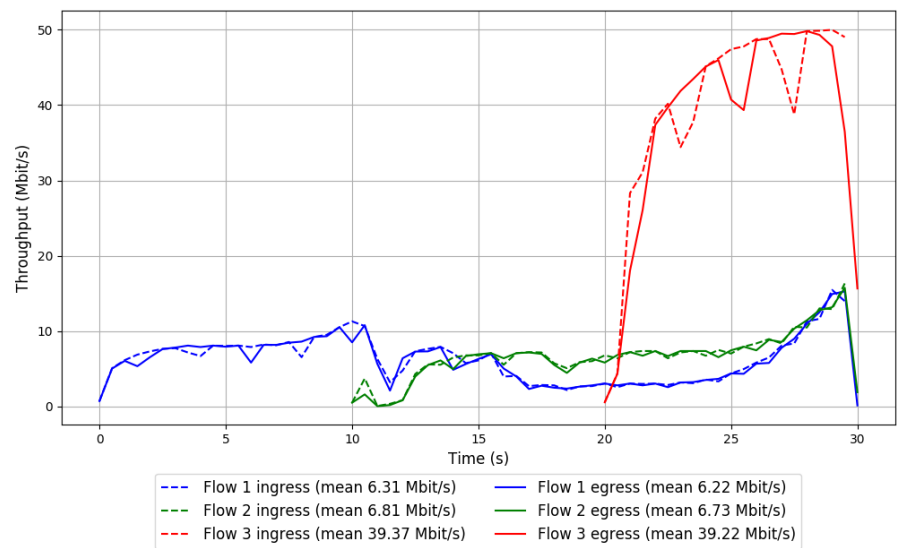


```
Run 1: Statistics of TCP Cubic

Start at: 2017-08-12 03:12:13
End at: 2017-08-12 03:12:43

# Below is generated by plot.py at 2017-08-12 06:33:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 23.69 Mbit/s
95th percentile per-packet one-way delay: 87.064 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 6.22 Mbit/s
95th percentile per-packet one-way delay: 87.138 ms
Loss rate: 1.39%
-- Flow 2:
Average throughput: 6.73 Mbit/s
95th percentile per-packet one-way delay: 86.757 ms
Loss rate: 1.09%
-- Flow 3:
Average throughput: 39.22 Mbit/s
95th percentile per-packet one-way delay: 86.999 ms
Loss rate: 0.41%
```

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2017-08-12 03:25:19

End at: 2017-08-12 03:25:49

Below is generated by plot.py at 2017-08-12 06:33:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 25.92 Mbit/s

95th percentile per-packet one-way delay: 87.417 ms

Loss rate: 3.78%

-- Flow 1:

Average throughput: 7.79 Mbit/s

95th percentile per-packet one-way delay: 86.914 ms

Loss rate: 1.55%

-- Flow 2:

Average throughput: 24.77 Mbit/s

95th percentile per-packet one-way delay: 87.715 ms

Loss rate: 5.12%

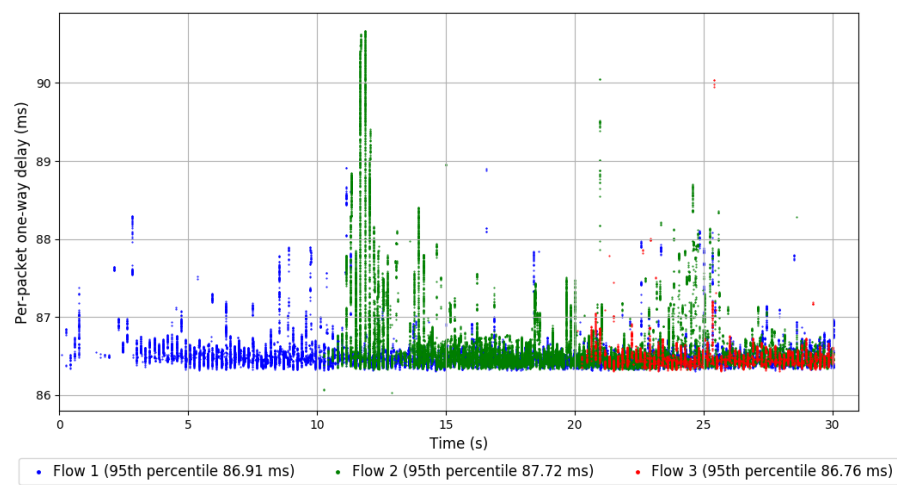
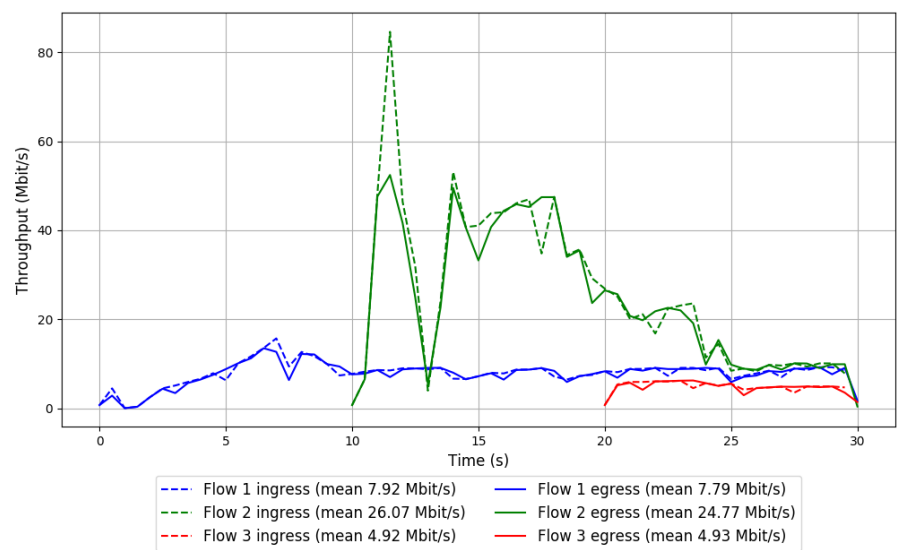
-- Flow 3:

Average throughput: 4.93 Mbit/s

95th percentile per-packet one-way delay: 86.763 ms

Loss rate: 0.27%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2017-08-12 03:38:31

End at: 2017-08-12 03:39:01

Below is generated by plot.py at 2017-08-12 06:33:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 5.86 Mbit/s

95th percentile per-packet one-way delay: 114.564 ms

Loss rate: 3.65%

-- Flow 1:

Average throughput: 4.17 Mbit/s

95th percentile per-packet one-way delay: 114.576 ms

Loss rate: 2.95%

-- Flow 2:

Average throughput: 2.10 Mbit/s

95th percentile per-packet one-way delay: 114.524 ms

Loss rate: 3.48%

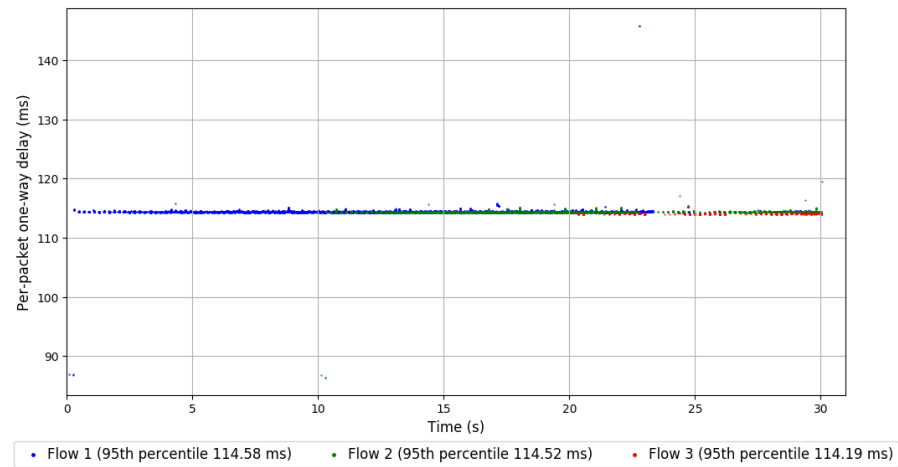
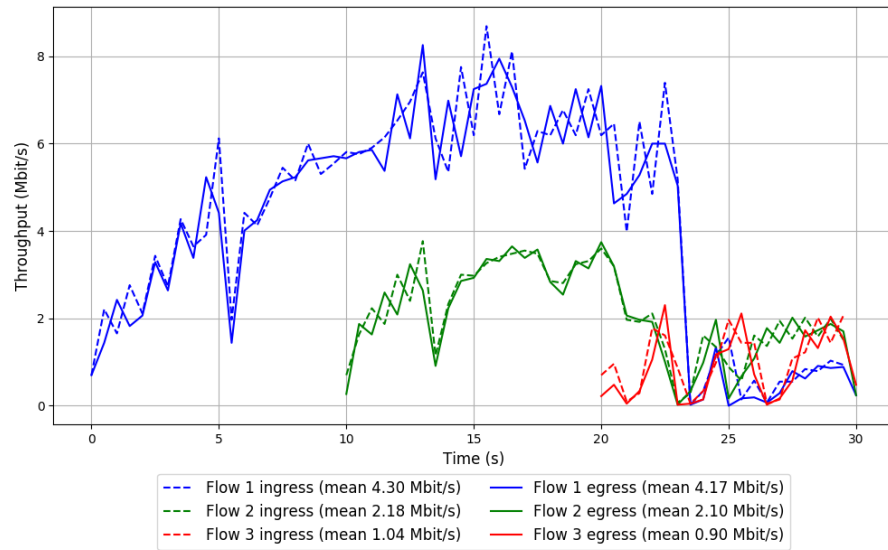
-- Flow 3:

Average throughput: 0.90 Mbit/s

95th percentile per-packet one-way delay: 114.187 ms

Loss rate: 13.10%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2017-08-12 03:51:36

End at: 2017-08-12 03:52:06

Below is generated by plot.py at 2017-08-12 06:33:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 21.61 Mbit/s

95th percentile per-packet one-way delay: 113.926 ms

Loss rate: 0.98%

-- Flow 1:

Average throughput: 1.35 Mbit/s

95th percentile per-packet one-way delay: 114.181 ms

Loss rate: 6.74%

-- Flow 2:

Average throughput: 30.45 Mbit/s

95th percentile per-packet one-way delay: 88.691 ms

Loss rate: 0.35%

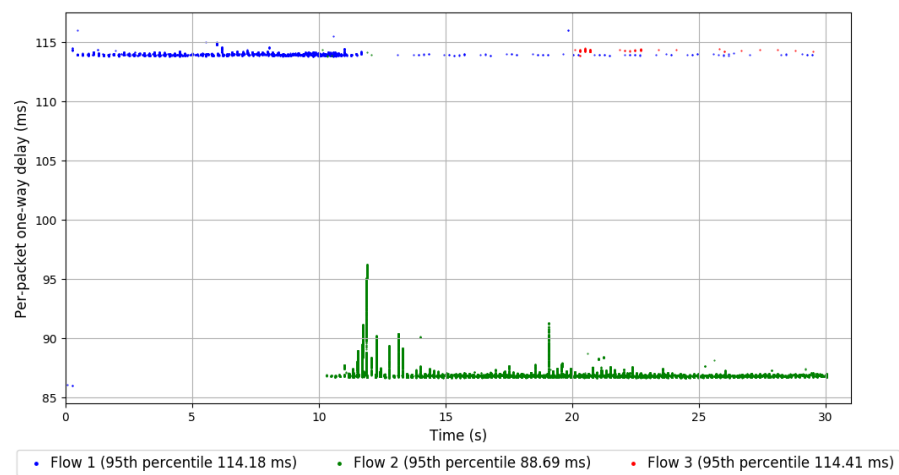
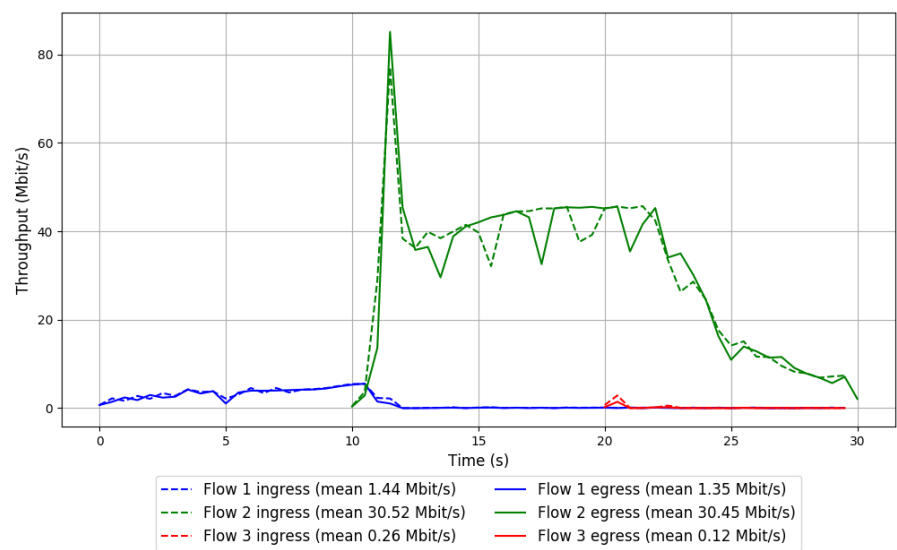
-- Flow 3:

Average throughput: 0.12 Mbit/s

95th percentile per-packet one-way delay: 114.414 ms

Loss rate: 54.23%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2017-08-12 04:03:23

End at: 2017-08-12 04:03:53

Below is generated by plot.py at 2017-08-12 06:33:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 10.34 Mbit/s

95th percentile per-packet one-way delay: 87.167 ms

Loss rate: 1.00%

-- Flow 1:

Average throughput: 5.83 Mbit/s

95th percentile per-packet one-way delay: 87.140 ms

Loss rate: 0.85%

-- Flow 2:

Average throughput: 4.78 Mbit/s

95th percentile per-packet one-way delay: 87.262 ms

Loss rate: 1.35%

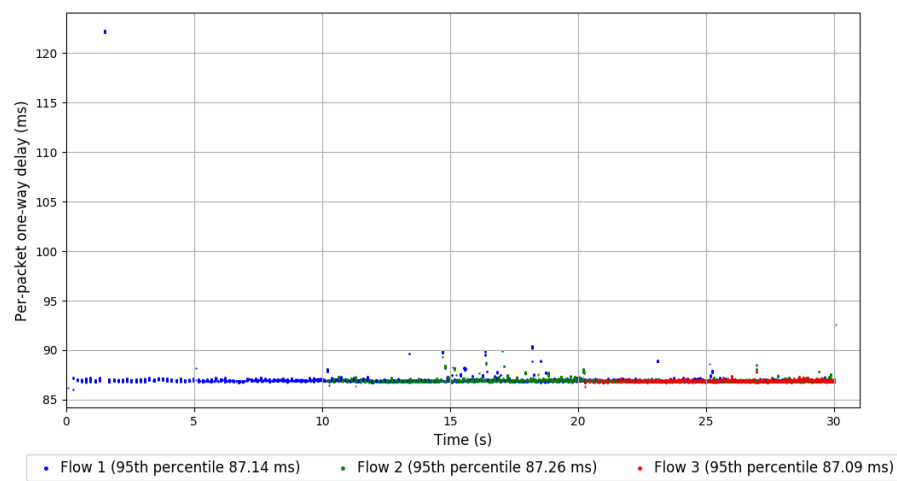
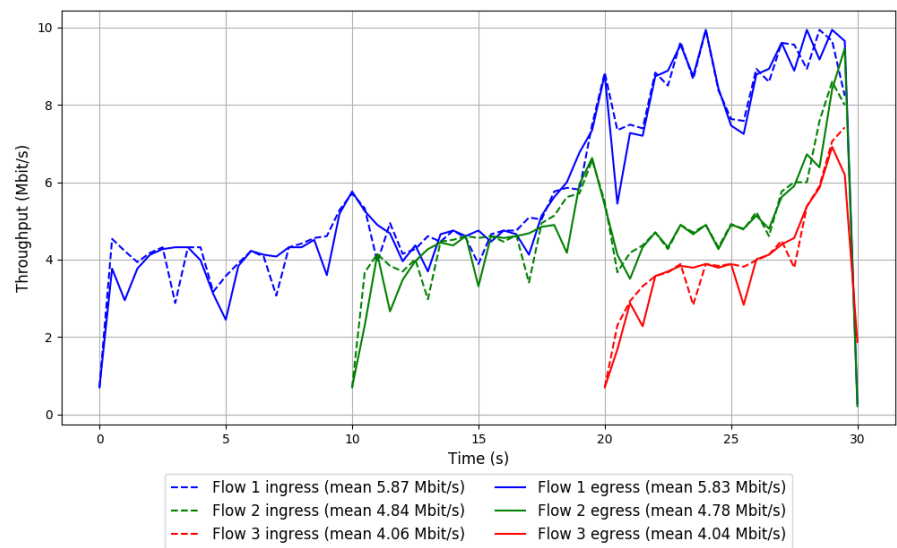
-- Flow 3:

Average throughput: 4.04 Mbit/s

95th percentile per-packet one-way delay: 87.089 ms

Loss rate: 0.80%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2017-08-12 04:15:53

End at: 2017-08-12 04:16:23

Below is generated by plot.py at 2017-08-12 06:33:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 50.69 Mbit/s

95th percentile per-packet one-way delay: 87.264 ms

Loss rate: 1.21%

-- Flow 1:

Average throughput: 41.20 Mbit/s

95th percentile per-packet one-way delay: 87.225 ms

Loss rate: 0.62%

-- Flow 2:

Average throughput: 4.49 Mbit/s

95th percentile per-packet one-way delay: 86.999 ms

Loss rate: 2.75%

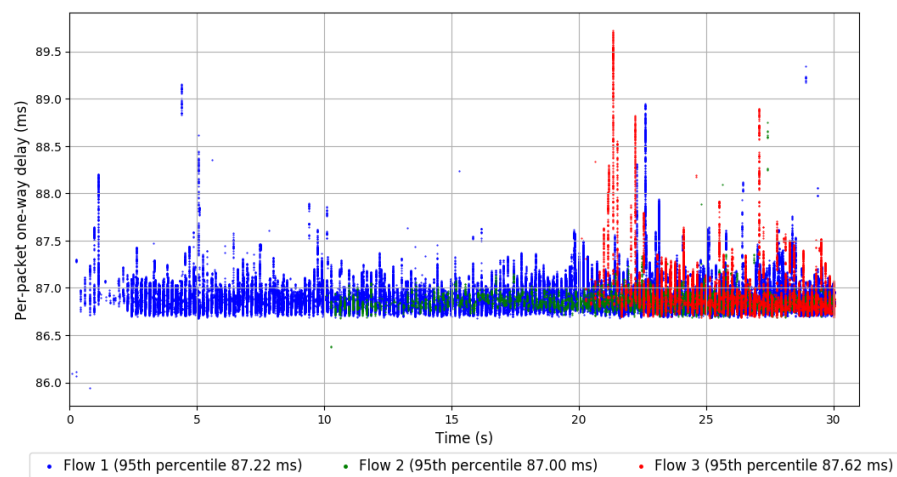
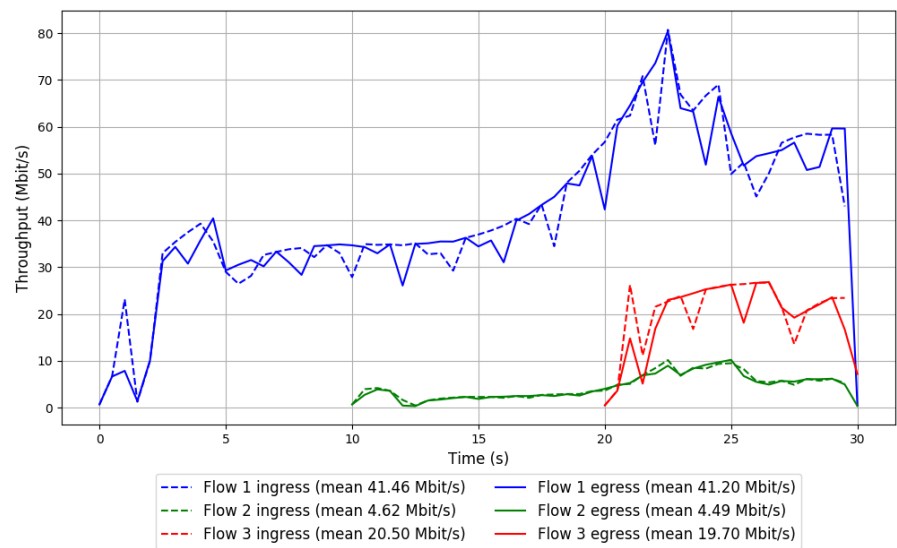
-- Flow 3:

Average throughput: 19.70 Mbit/s

95th percentile per-packet one-way delay: 87.616 ms

Loss rate: 4.13%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2017-08-12 04:28:40

End at: 2017-08-12 04:29:10

Below is generated by plot.py at 2017-08-12 06:33:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 25.78 Mbit/s

95th percentile per-packet one-way delay: 87.397 ms

Loss rate: 2.12%

-- Flow 1:

Average throughput: 4.54 Mbit/s

95th percentile per-packet one-way delay: 87.123 ms

Loss rate: 1.85%

-- Flow 2:

Average throughput: 7.67 Mbit/s

95th percentile per-packet one-way delay: 87.063 ms

Loss rate: 2.43%

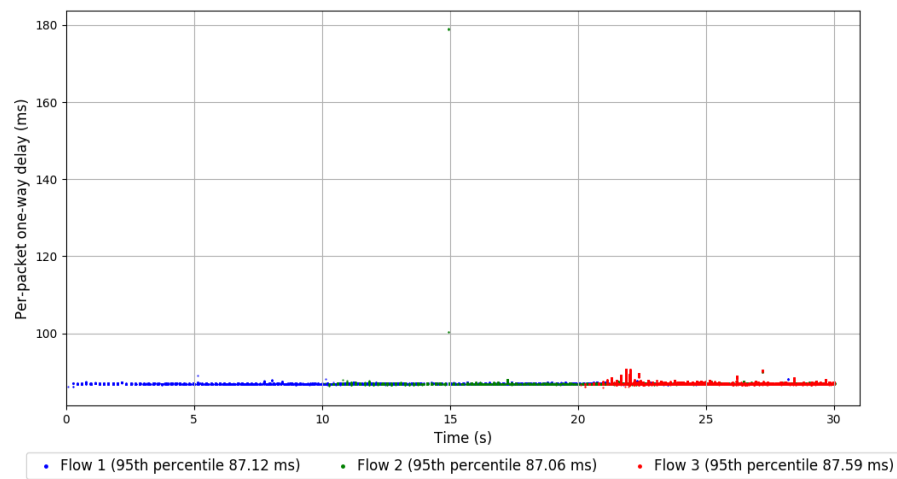
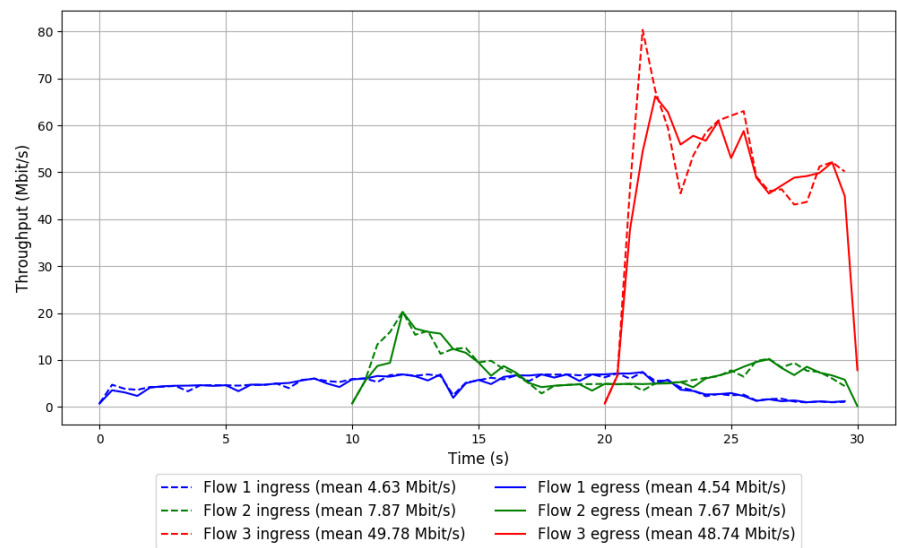
-- Flow 3:

Average throughput: 48.74 Mbit/s

95th percentile per-packet one-way delay: 87.594 ms

Loss rate: 2.09%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2017-08-12 04:41:14

End at: 2017-08-12 04:41:44

Below is generated by plot.py at 2017-08-12 06:33:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 21.46 Mbit/s

95th percentile per-packet one-way delay: 87.472 ms

Loss rate: 5.90%

-- Flow 1:

Average throughput: 10.62 Mbit/s

95th percentile per-packet one-way delay: 87.266 ms

Loss rate: 5.11%

-- Flow 2:

Average throughput: 9.50 Mbit/s

95th percentile per-packet one-way delay: 87.134 ms

Loss rate: 0.86%

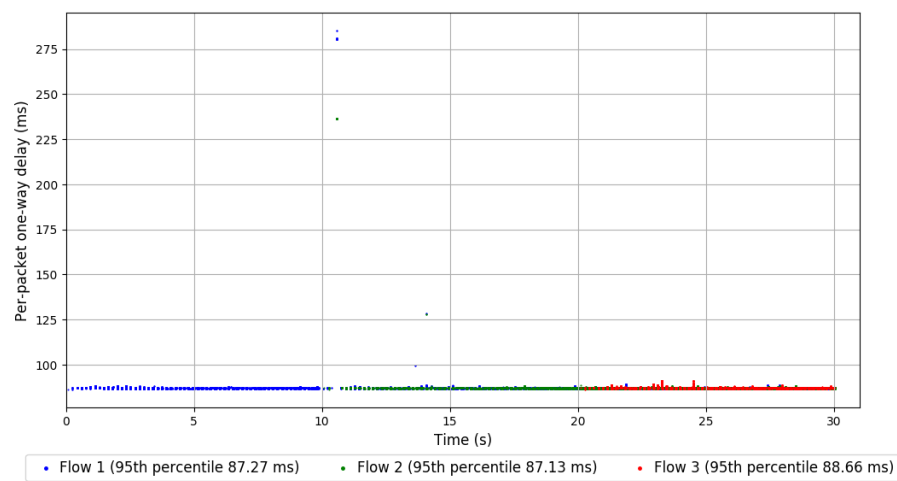
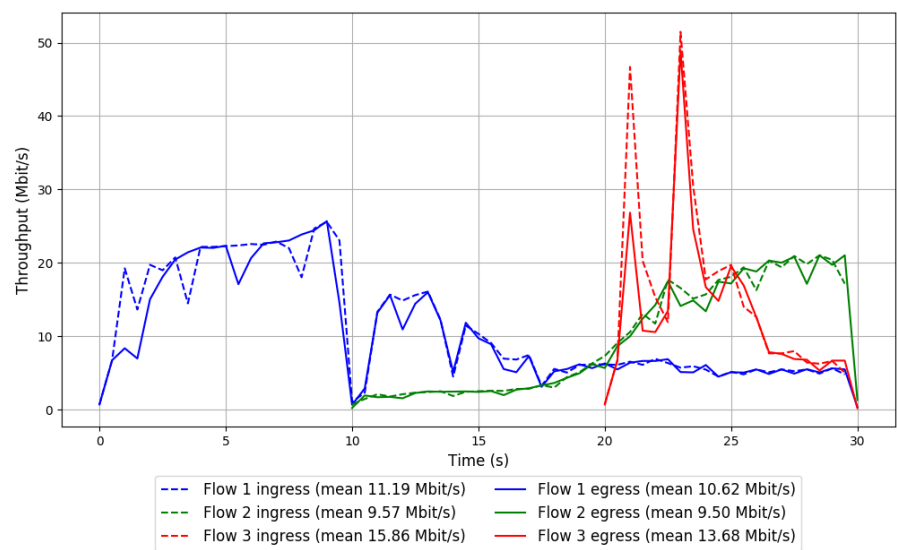
-- Flow 3:

Average throughput: 13.68 Mbit/s

95th percentile per-packet one-way delay: 88.658 ms

Loss rate: 13.73%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2017-08-12 04:53:39

End at: 2017-08-12 04:54:09

Below is generated by plot.py at 2017-08-12 06:33:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 33.50 Mbit/s

95th percentile per-packet one-way delay: 87.703 ms

Loss rate: 2.21%

-- Flow 1:

Average throughput: 6.20 Mbit/s

95th percentile per-packet one-way delay: 87.482 ms

Loss rate: 2.42%

-- Flow 2:

Average throughput: 31.77 Mbit/s

95th percentile per-packet one-way delay: 87.876 ms

Loss rate: 2.21%

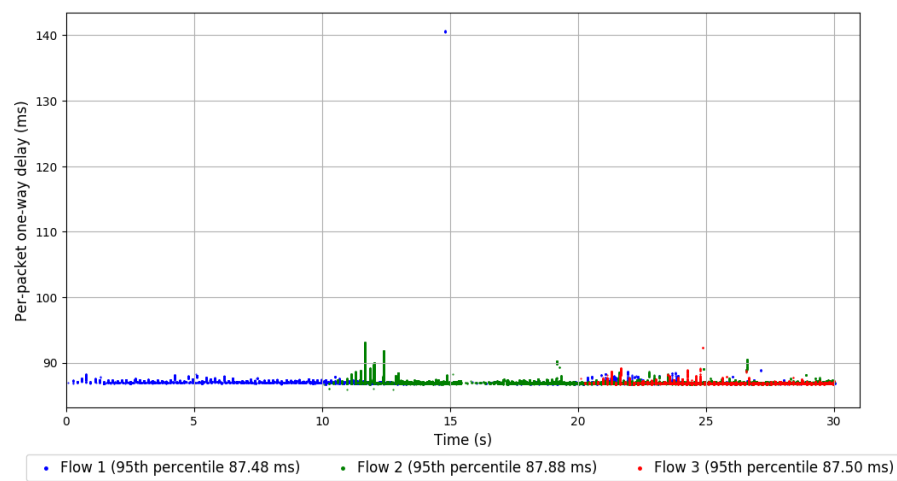
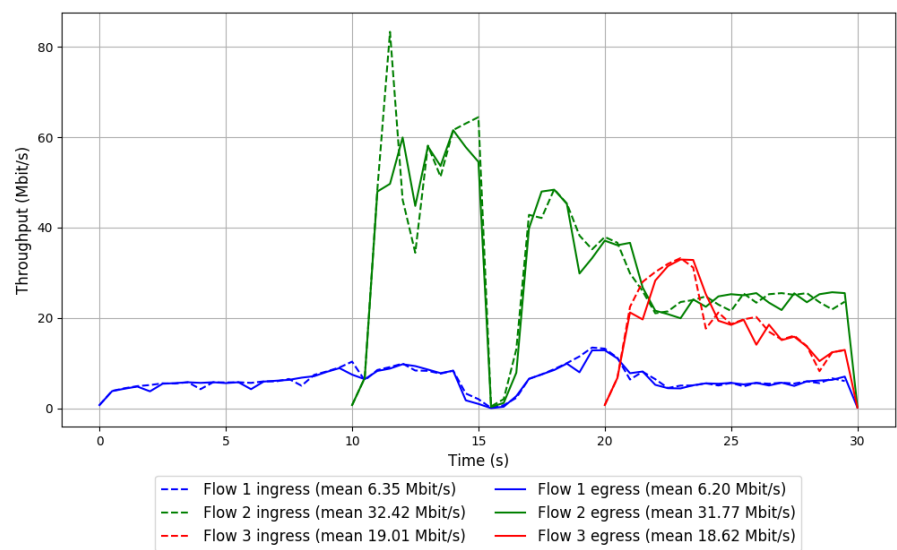
-- Flow 3:

Average throughput: 18.62 Mbit/s

95th percentile per-packet one-way delay: 87.496 ms

Loss rate: 2.04%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2017-08-12 05:06:09

End at: 2017-08-12 05:06:39

Below is generated by plot.py at 2017-08-12 06:33:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 56.43 Mbit/s

95th percentile per-packet one-way delay: 88.363 ms

Loss rate: 1.38%

-- Flow 1:

Average throughput: 53.22 Mbit/s

95th percentile per-packet one-way delay: 88.441 ms

Loss rate: 1.20%

-- Flow 2:

Average throughput: 1.47 Mbit/s

95th percentile per-packet one-way delay: 87.100 ms

Loss rate: 6.17%

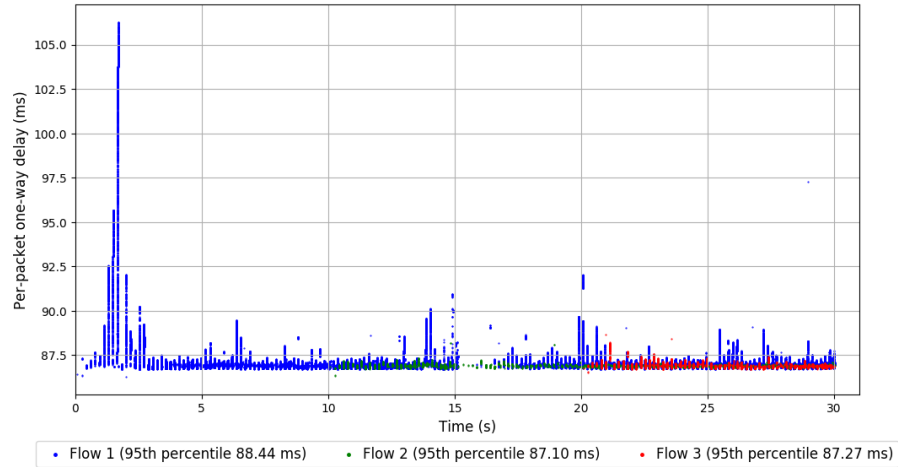
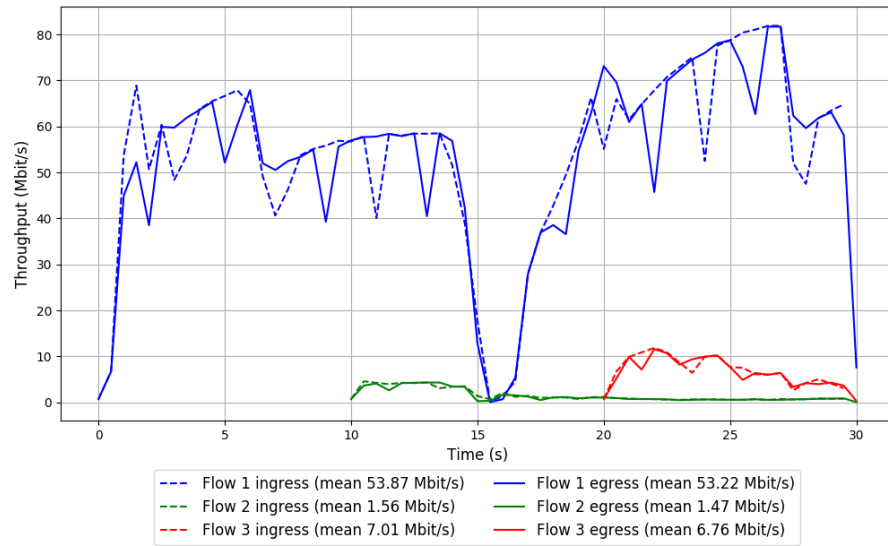
-- Flow 3:

Average throughput: 6.76 Mbit/s

95th percentile per-packet one-way delay: 87.270 ms

Loss rate: 3.61%

Run 10: Report of TCP Cubic — Data Link

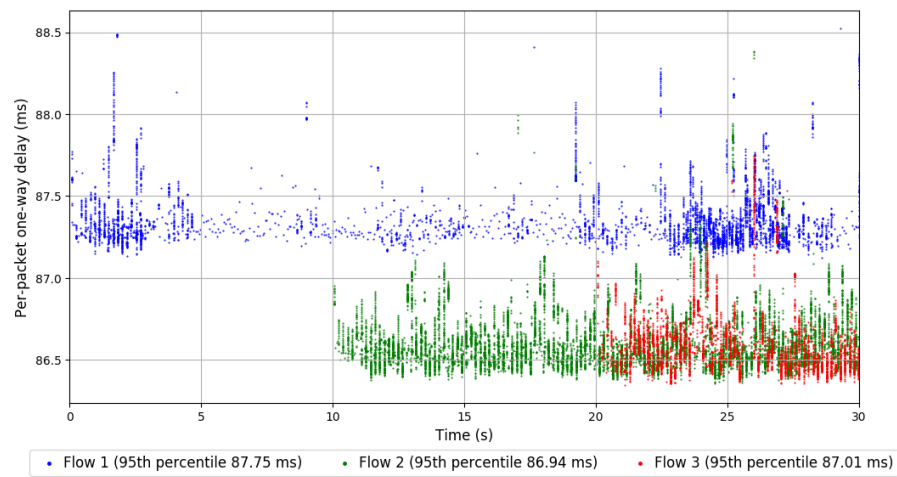
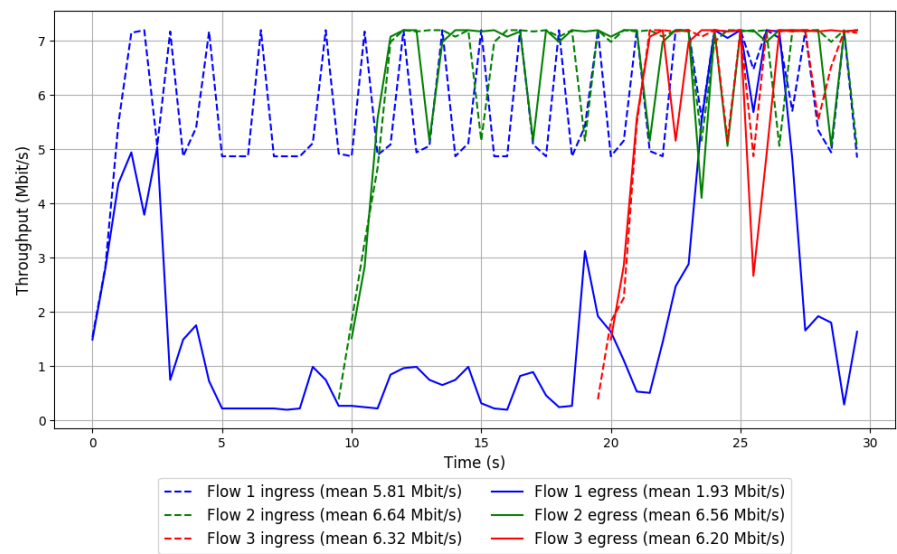


```
Run 1: Statistics of KohoCC

Start at: 2017-08-12 03:06:28
End at: 2017-08-12 03:06:58

# Below is generated by plot.py at 2017-08-12 06:33:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.36 Mbit/s
95th percentile per-packet one-way delay: 87.459 ms
Loss rate: 32.21%
-- Flow 1:
Average throughput: 1.93 Mbit/s
95th percentile per-packet one-way delay: 87.750 ms
Loss rate: 66.78%
-- Flow 2:
Average throughput: 6.56 Mbit/s
95th percentile per-packet one-way delay: 86.936 ms
Loss rate: 1.18%
-- Flow 3:
Average throughput: 6.20 Mbit/s
95th percentile per-packet one-way delay: 87.009 ms
Loss rate: 1.91%
```


Run 1: Report of KohoCC — Data Link

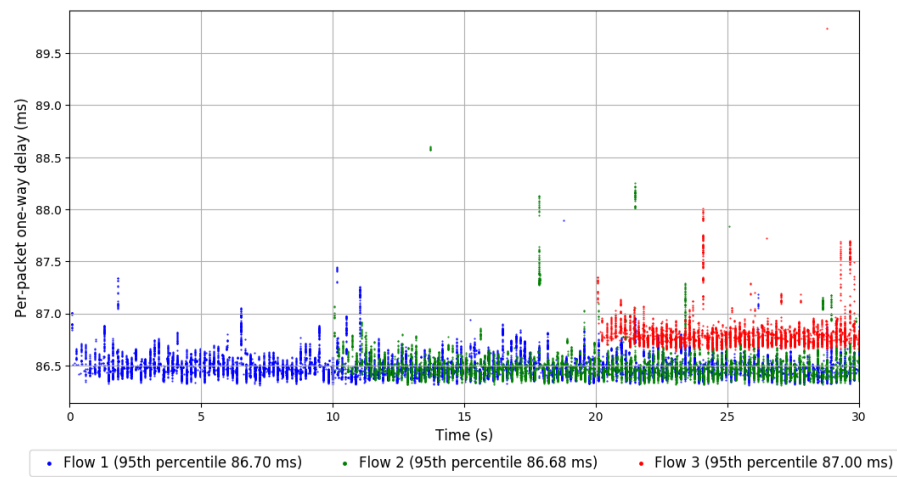
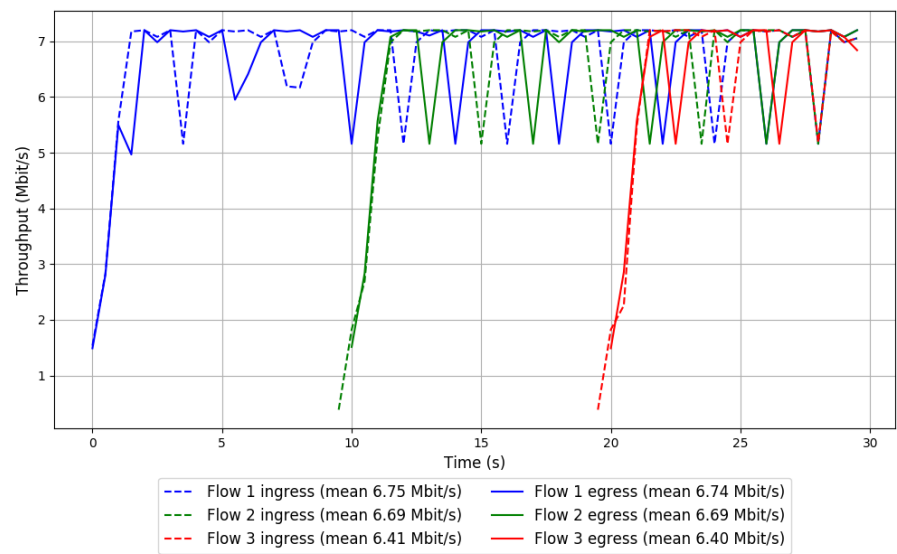


```
Run 2: Statistics of KohoCC

Start at: 2017-08-12 03:19:12
End at: 2017-08-12 03:19:42

# Below is generated by plot.py at 2017-08-12 06:33:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 13.33 Mbit/s
95th percentile per-packet one-way delay: 86.835 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 6.74 Mbit/s
95th percentile per-packet one-way delay: 86.701 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 6.69 Mbit/s
95th percentile per-packet one-way delay: 86.682 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 6.40 Mbit/s
95th percentile per-packet one-way delay: 86.997 ms
Loss rate: 0.28%
```

Run 2: Report of KohoCC — Data Link



Run 3: Statistics of KohoCC

Start at: 2017-08-12 03:32:45

End at: 2017-08-12 03:33:15

Below is generated by plot.py at 2017-08-12 06:33:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 5.30 Mbit/s

95th percentile per-packet one-way delay: 87.581 ms

Loss rate: 52.83%

-- Flow 1:

Average throughput: 0.78 Mbit/s

95th percentile per-packet one-way delay: 87.800 ms

Loss rate: 86.00%

-- Flow 2:

Average throughput: 6.56 Mbit/s

95th percentile per-packet one-way delay: 87.142 ms

Loss rate: 1.08%

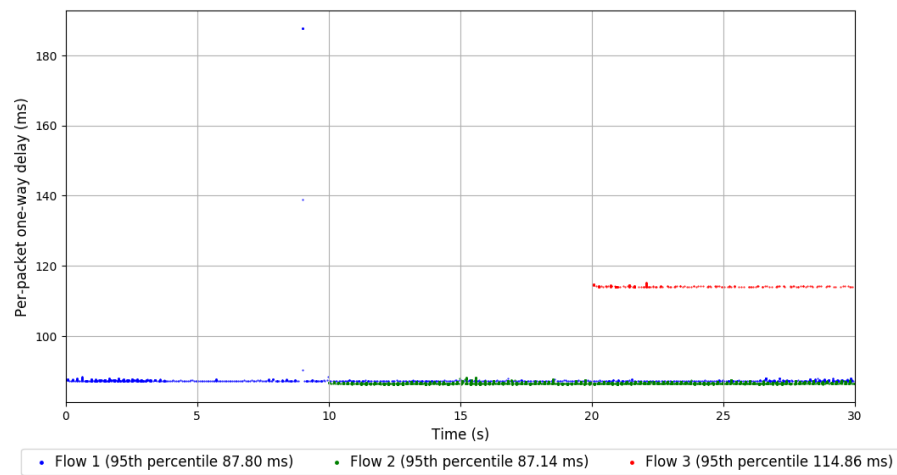
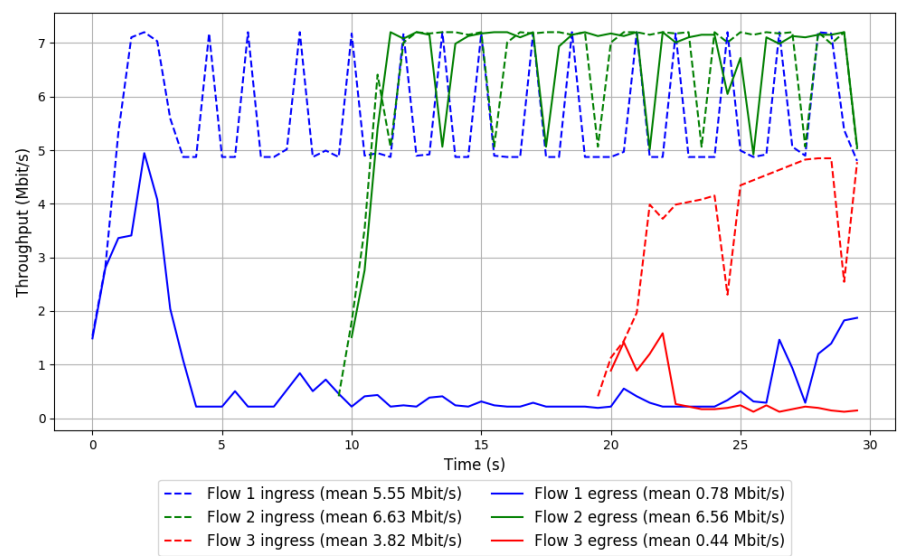
-- Flow 3:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 114.865 ms

Loss rate: 88.53%

Run 3: Report of KohoCC — Data Link



Run 4: Statistics of KohoCC

Start at: 2017-08-12 03:46:02

End at: 2017-08-12 03:46:32

Below is generated by plot.py at 2017-08-12 06:33:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 7.03 Mbit/s

95th percentile per-packet one-way delay: 88.337 ms

Loss rate: 33.48%

-- Flow 1:

Average throughput: 6.69 Mbit/s

95th percentile per-packet one-way delay: 87.224 ms

Loss rate: 0.41%

-- Flow 2:

Average throughput: 0.32 Mbit/s

95th percentile per-packet one-way delay: 114.463 ms

Loss rate: 92.58%

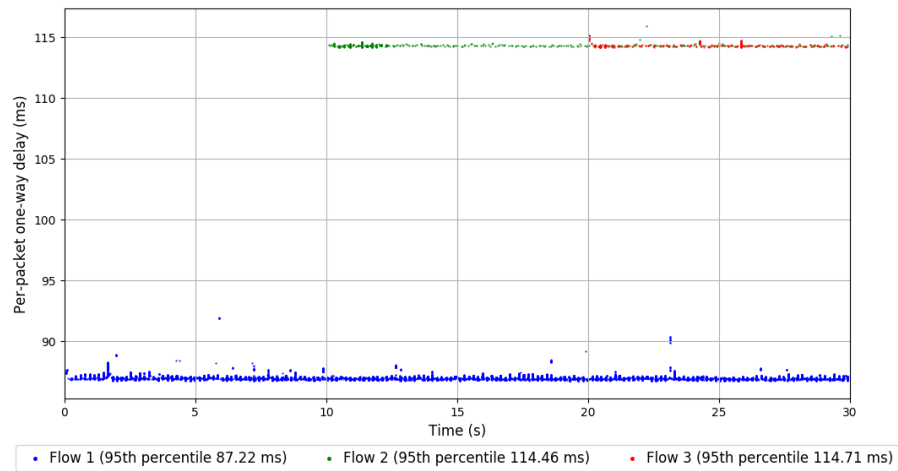
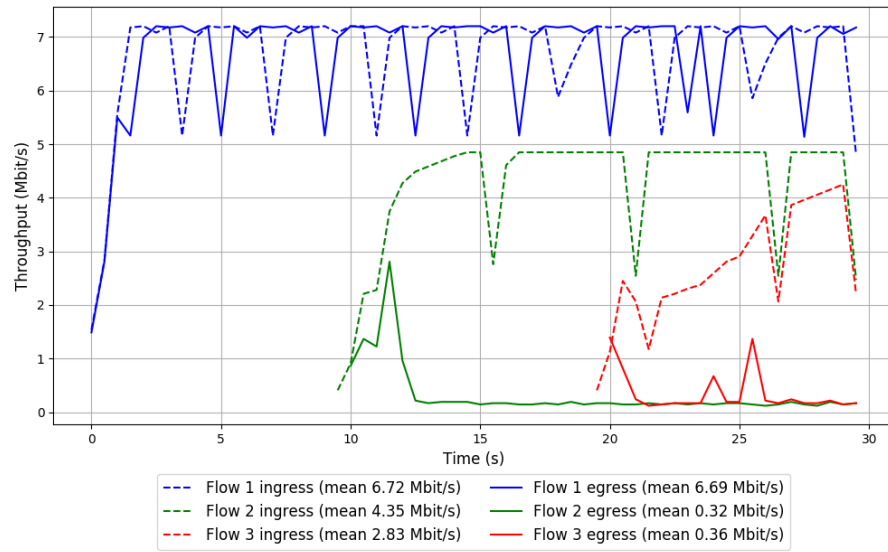
-- Flow 3:

Average throughput: 0.36 Mbit/s

95th percentile per-packet one-way delay: 114.707 ms

Loss rate: 87.29%

Run 4: Report of KohoCC — Data Link



Run 5: Statistics of KohoCC

Start at: 2017-08-12 03:58:01

End at: 2017-08-12 03:58:31

Below is generated by plot.py at 2017-08-12 06:33:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.76 Mbit/s

95th percentile per-packet one-way delay: 114.101 ms

Loss rate: 51.41%

-- Flow 1:

Average throughput: 0.27 Mbit/s

95th percentile per-packet one-way delay: 114.294 ms

Loss rate: 93.96%

-- Flow 2:

Average throughput: 6.57 Mbit/s

95th percentile per-packet one-way delay: 87.563 ms

Loss rate: 0.00%

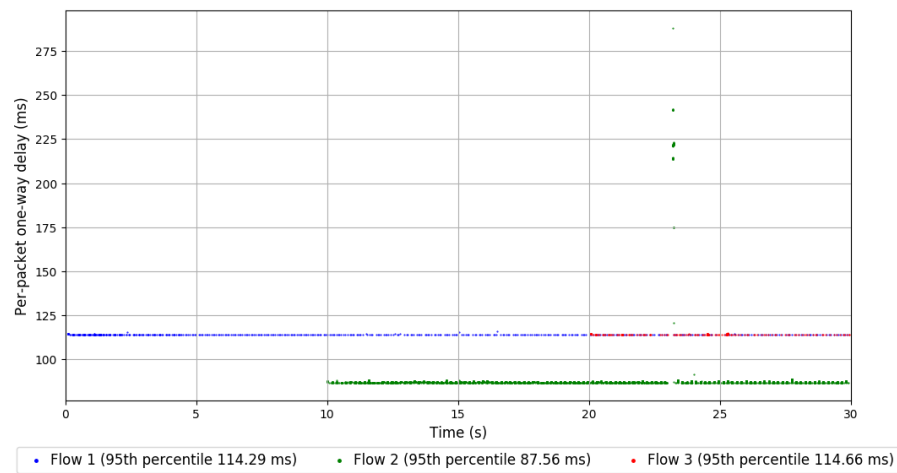
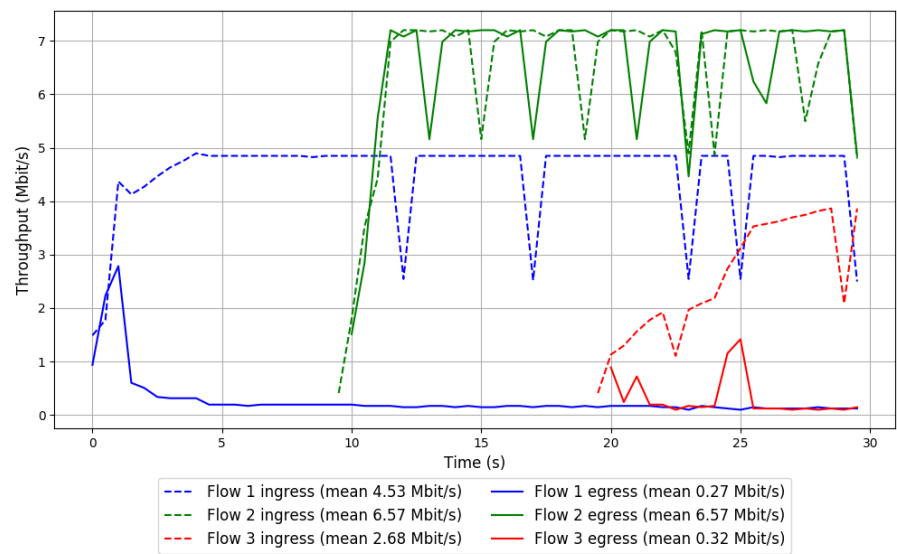
-- Flow 3:

Average throughput: 0.32 Mbit/s

95th percentile per-packet one-way delay: 114.658 ms

Loss rate: 87.93%

Run 5: Report of KohoCC — Data Link



Run 6: Statistics of KohoCC

Start at: 2017-08-12 04:10:22

End at: 2017-08-12 04:10:52

Below is generated by plot.py at 2017-08-12 06:33:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 9.91 Mbit/s

95th percentile per-packet one-way delay: 87.164 ms

Loss rate: 22.15%

-- Flow 1:

Average throughput: 3.38 Mbit/s

95th percentile per-packet one-way delay: 87.086 ms

Loss rate: 45.23%

-- Flow 2:

Average throughput: 6.60 Mbit/s

95th percentile per-packet one-way delay: 87.184 ms

Loss rate: 0.67%

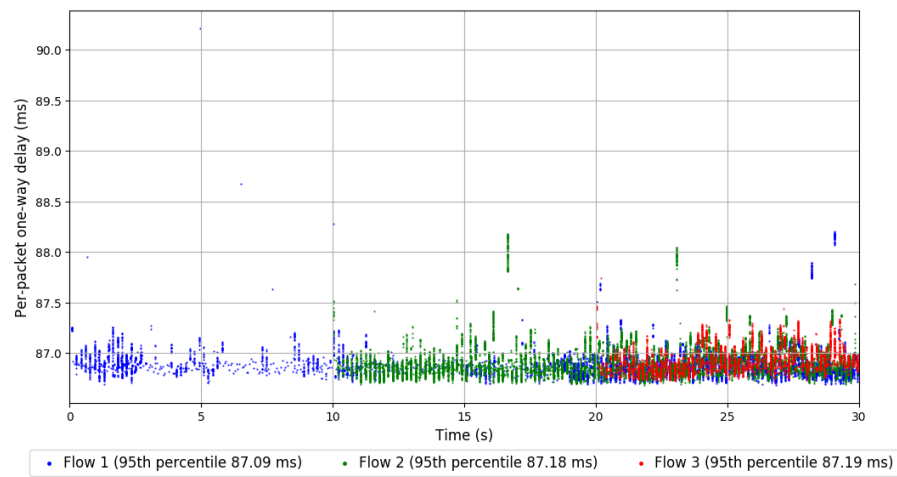
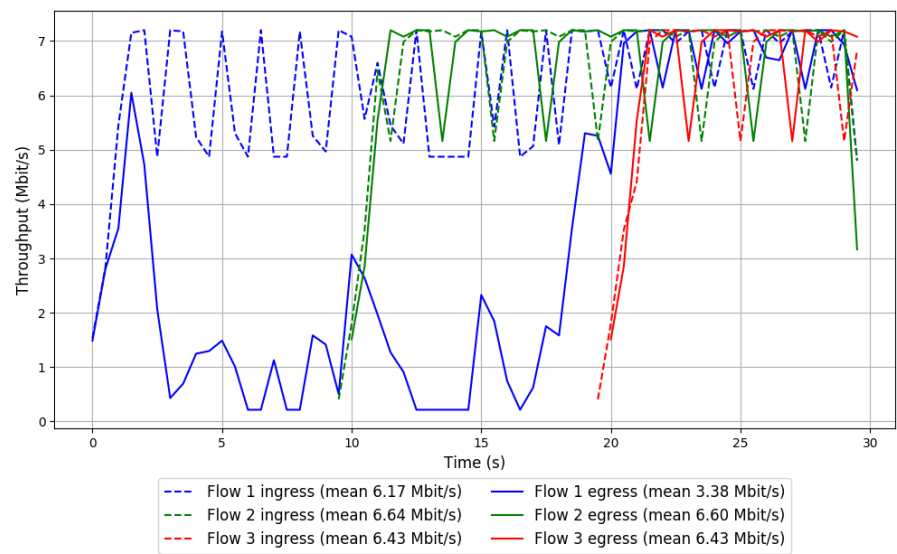
-- Flow 3:

Average throughput: 6.43 Mbit/s

95th percentile per-packet one-way delay: 87.188 ms

Loss rate: 0.00%

Run 6: Report of KohoCC — Data Link



Run 7: Statistics of KohoCC

Start at: 2017-08-12 04:22:52

End at: 2017-08-12 04:23:22

Below is generated by plot.py at 2017-08-12 06:33:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 13.24 Mbit/s

95th percentile per-packet one-way delay: 87.463 ms

Loss rate: 0.19%

-- Flow 1:

Average throughput: 6.71 Mbit/s

95th percentile per-packet one-way delay: 87.587 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 6.61 Mbit/s

95th percentile per-packet one-way delay: 87.458 ms

Loss rate: 0.43%

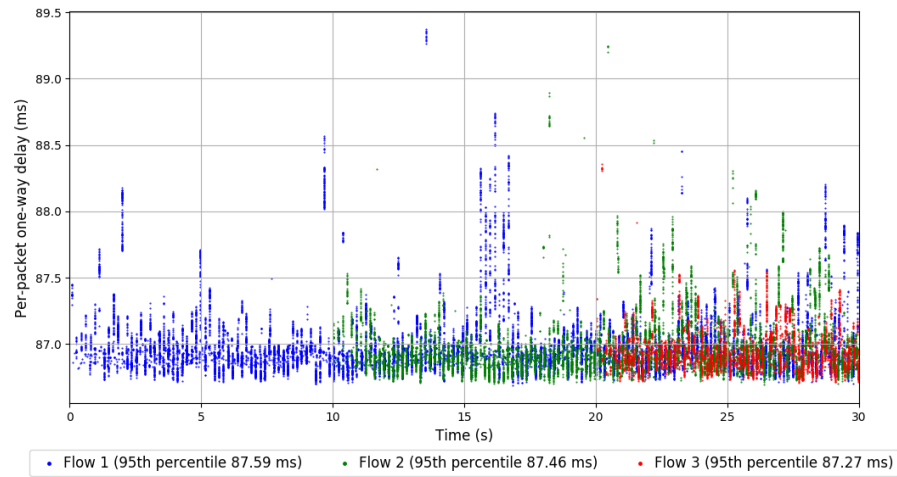
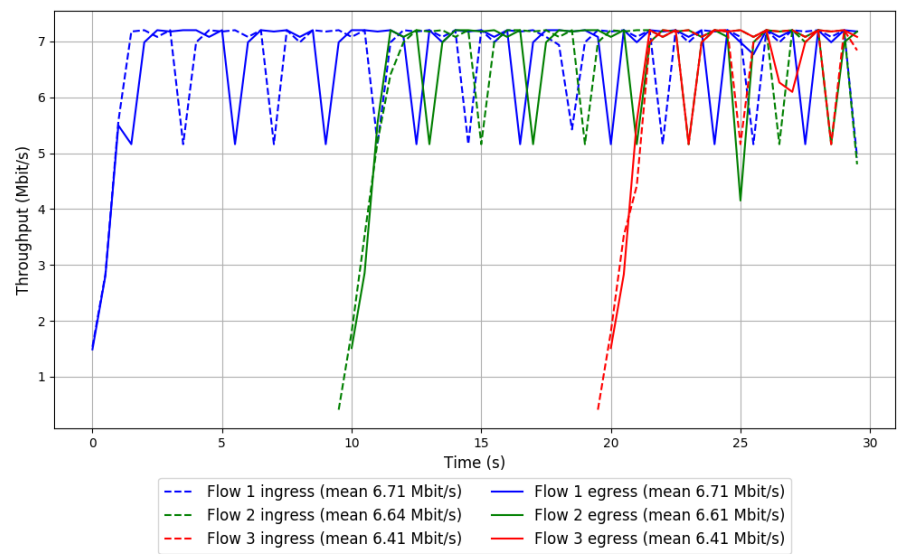
-- Flow 3:

Average throughput: 6.41 Mbit/s

95th percentile per-packet one-way delay: 87.272 ms

Loss rate: 0.00%

Run 7: Report of KohoCC — Data Link



Run 8: Statistics of KohoCC

Start at: 2017-08-12 04:35:34

End at: 2017-08-12 04:36:04

Below is generated by plot.py at 2017-08-12 06:34:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 12.79 Mbit/s

95th percentile per-packet one-way delay: 87.489 ms

Loss rate: 1.74%

-- Flow 1:

Average throughput: 6.56 Mbit/s

95th percentile per-packet one-way delay: 87.600 ms

Loss rate: 1.21%

-- Flow 2:

Average throughput: 6.31 Mbit/s

95th percentile per-packet one-way delay: 87.284 ms

Loss rate: 3.20%

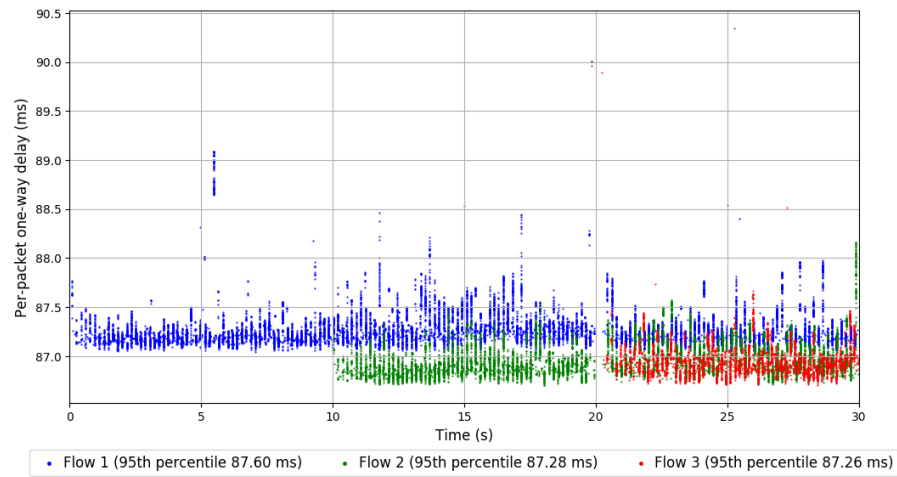
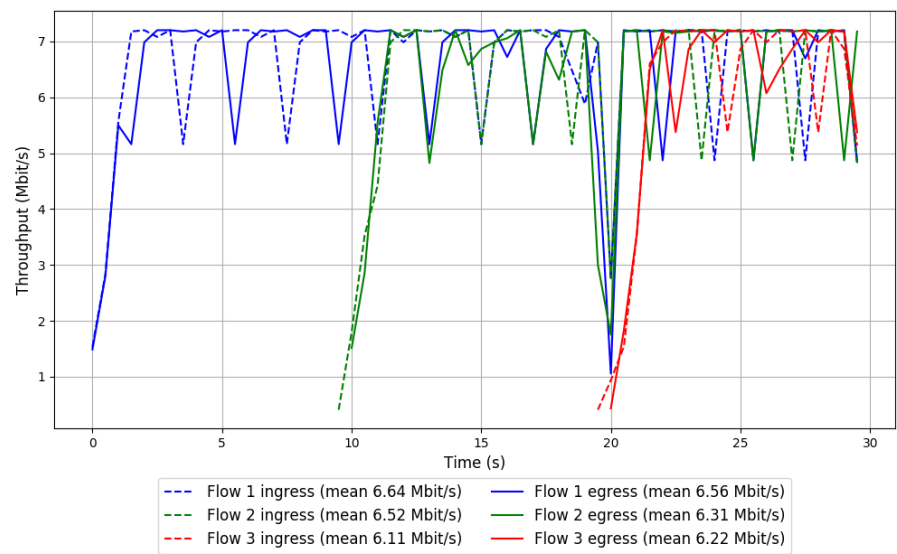
-- Flow 3:

Average throughput: 6.22 Mbit/s

95th percentile per-packet one-way delay: 87.259 ms

Loss rate: 0.38%

Run 8: Report of KohoCC — Data Link



Run 9: Statistics of KohoCC

Start at: 2017-08-12 04:48:11

End at: 2017-08-12 04:48:41

Below is generated by plot.py at 2017-08-12 06:34:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 13.05 Mbit/s

95th percentile per-packet one-way delay: 87.353 ms

Loss rate: 1.15%

-- Flow 1:

Average throughput: 6.62 Mbit/s

95th percentile per-packet one-way delay: 87.290 ms

Loss rate: 1.04%

-- Flow 2:

Average throughput: 6.44 Mbit/s

95th percentile per-packet one-way delay: 87.425 ms

Loss rate: 1.87%

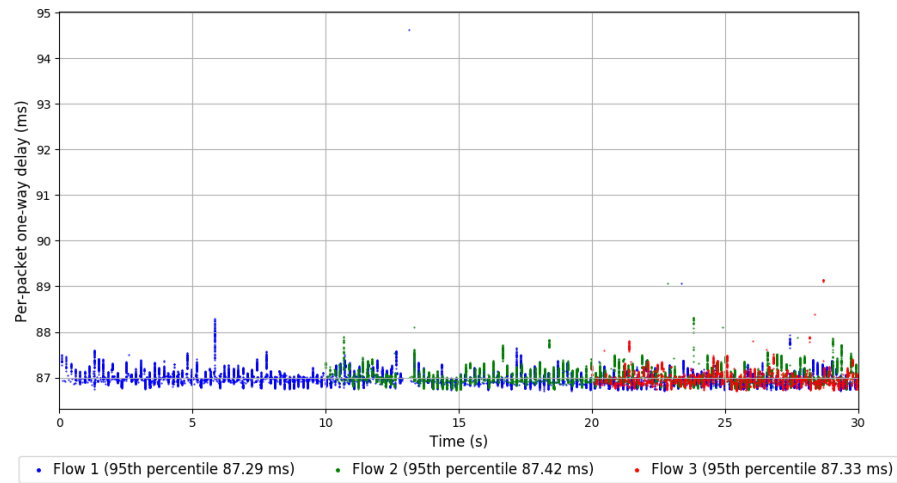
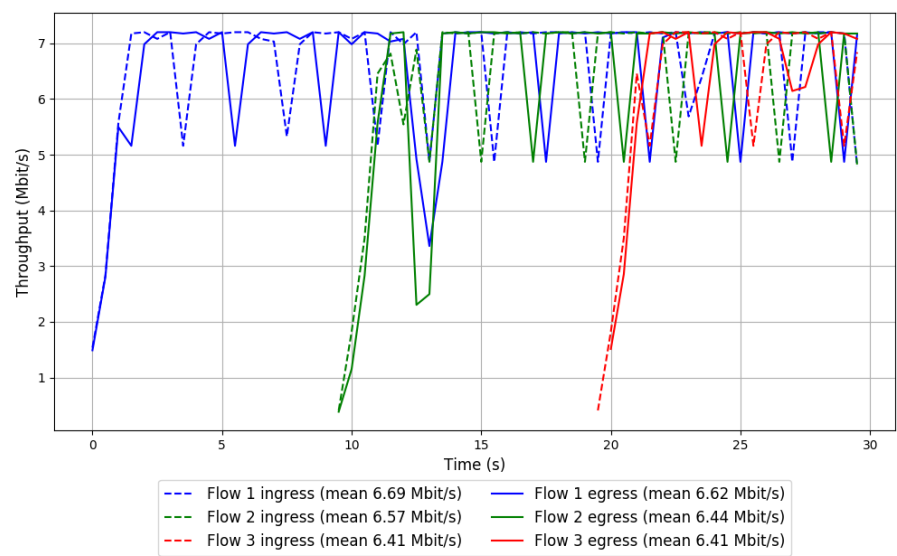
-- Flow 3:

Average throughput: 6.41 Mbit/s

95th percentile per-packet one-way delay: 87.325 ms

Loss rate: 0.00%

Run 9: Report of KohoCC — Data Link

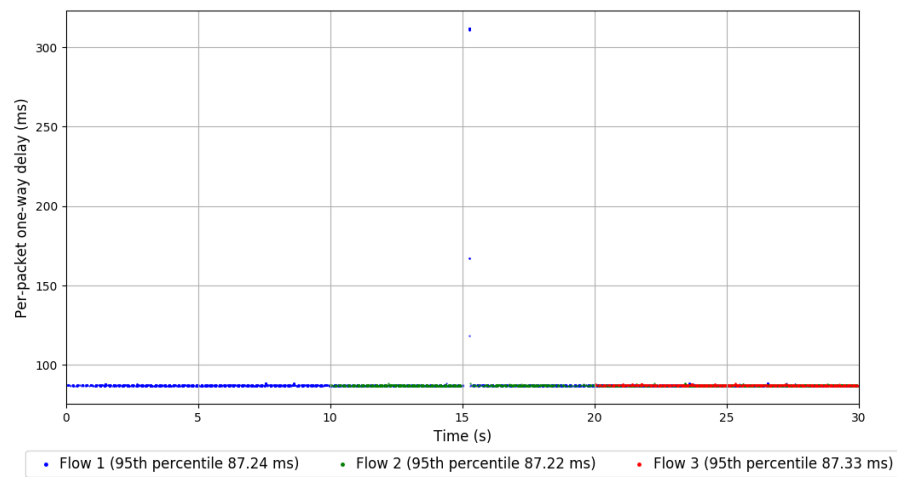
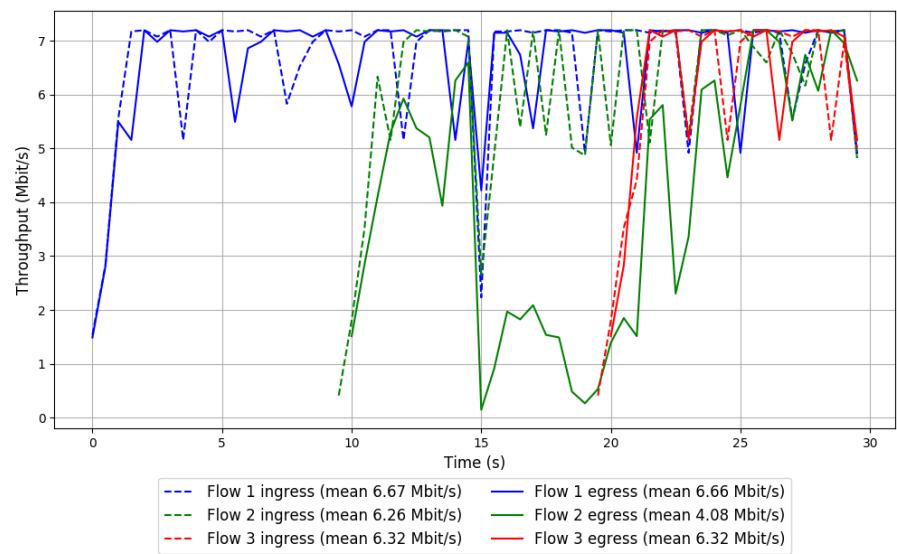


```
Run 10: Statistics of KohoCC

Start at: 2017-08-12 05:00:39
End at: 2017-08-12 05:01:09

# Below is generated by plot.py at 2017-08-12 06:34:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 11.49 Mbit/s
95th percentile per-packet one-way delay: 87.260 ms
Loss rate: 11.29%
-- Flow 1:
Average throughput: 6.66 Mbit/s
95th percentile per-packet one-way delay: 87.237 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 4.08 Mbit/s
95th percentile per-packet one-way delay: 87.225 ms
Loss rate: 34.82%
-- Flow 3:
Average throughput: 6.32 Mbit/s
95th percentile per-packet one-way delay: 87.333 ms
Loss rate: 0.00%
```

Run 10: Report of KohoCC — Data Link

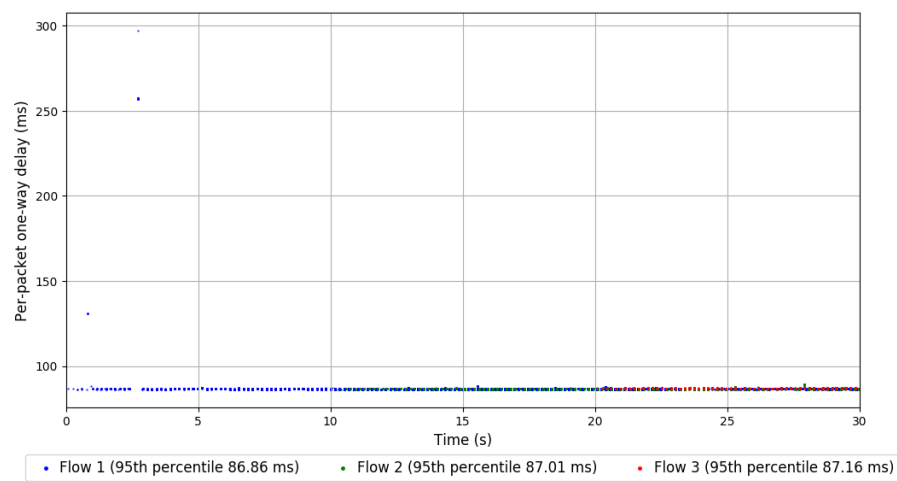
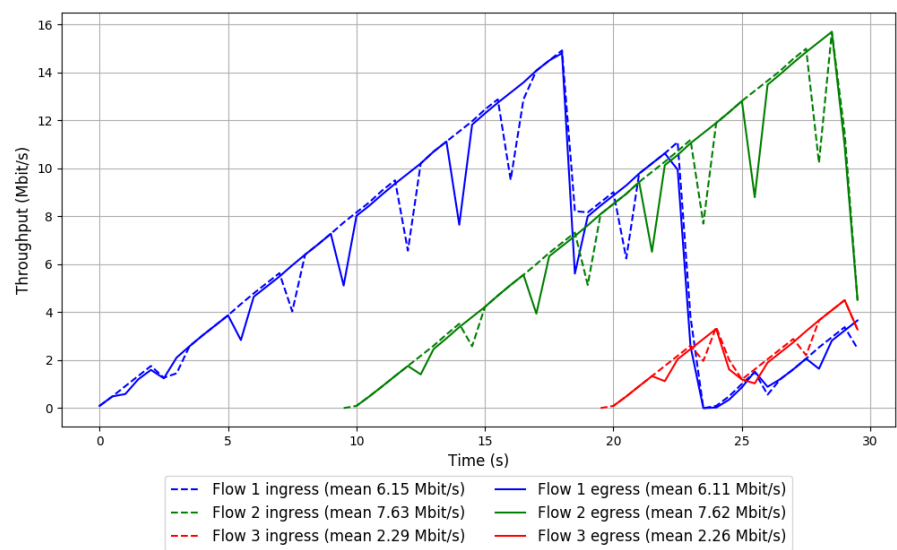


```
Run 1: Statistics of LEDBAT

Start at: 2017-08-12 03:09:54
End at: 2017-08-12 03:10:24

# Below is generated by plot.py at 2017-08-12 06:34:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 11.91 Mbit/s
95th percentile per-packet one-way delay: 87.020 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 6.11 Mbit/s
95th percentile per-packet one-way delay: 86.863 ms
Loss rate: 0.68%
-- Flow 2:
Average throughput: 7.62 Mbit/s
95th percentile per-packet one-way delay: 87.011 ms
Loss rate: 0.18%
-- Flow 3:
Average throughput: 2.26 Mbit/s
95th percentile per-packet one-way delay: 87.159 ms
Loss rate: 1.05%
```

Run 1: Report of LEDBAT — Data Link

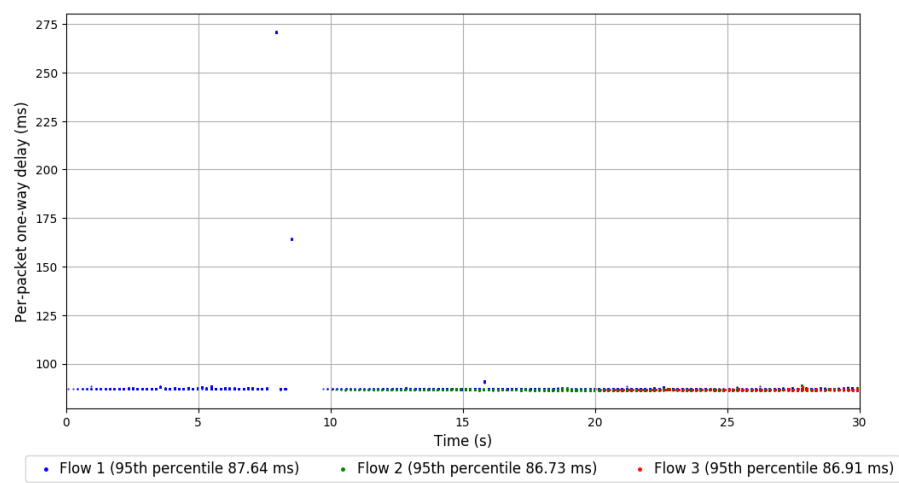
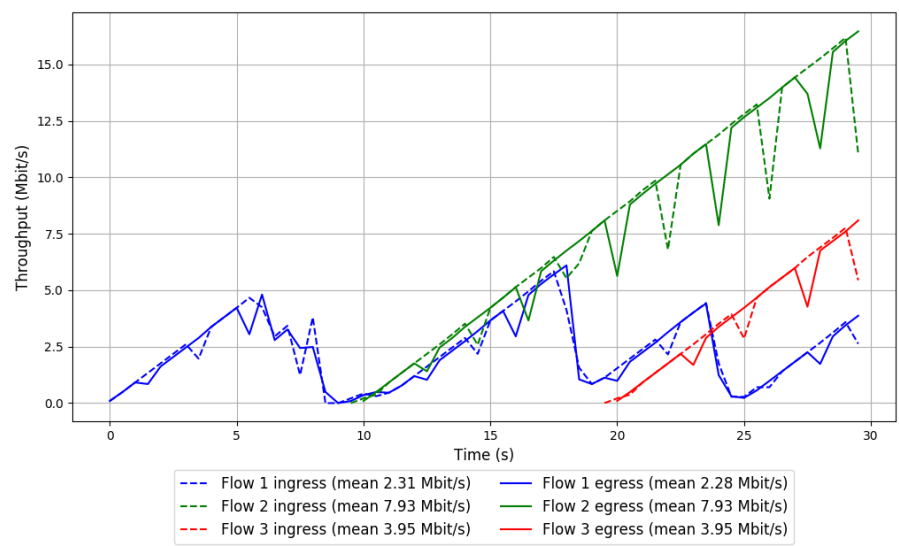


```
Run 2: Statistics of LEDBAT

Start at: 2017-08-12 03:22:46
End at: 2017-08-12 03:23:16

# Below is generated by plot.py at 2017-08-12 06:34:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.87 Mbit/s
95th percentile per-packet one-way delay: 87.188 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 2.28 Mbit/s
95th percentile per-packet one-way delay: 87.636 ms
Loss rate: 1.43%
-- Flow 2:
Average throughput: 7.93 Mbit/s
95th percentile per-packet one-way delay: 86.735 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 3.95 Mbit/s
95th percentile per-packet one-way delay: 86.913 ms
Loss rate: 0.00%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2017-08-12 03:36:04

End at: 2017-08-12 03:36:34

Below is generated by plot.py at 2017-08-12 06:34:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 6.93 Mbit/s

95th percentile per-packet one-way delay: 87.182 ms

Loss rate: 0.13%

-- Flow 1:

Average throughput: 6.93 Mbit/s

95th percentile per-packet one-way delay: 87.181 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 13.01 Mbit/s

95th percentile per-packet one-way delay: 17095.041 ms

Loss rate: 0.00%

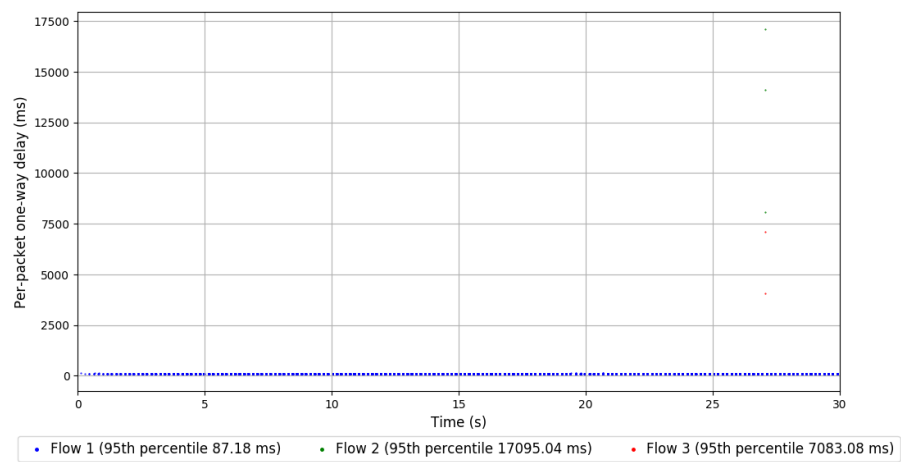
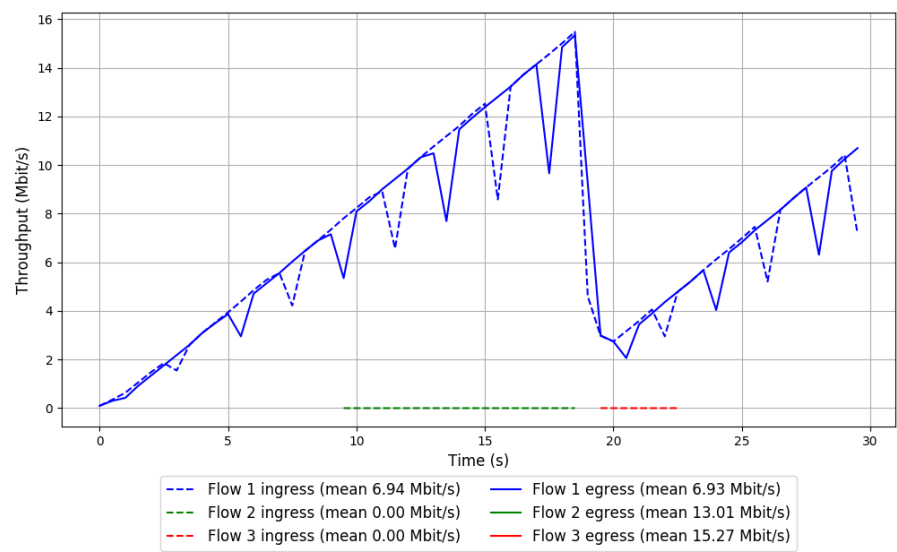
-- Flow 3:

Average throughput: 15.27 Mbit/s

95th percentile per-packet one-way delay: 7083.079 ms

Loss rate: 0.00%

Run 3: Report of LEDBAT — Data Link

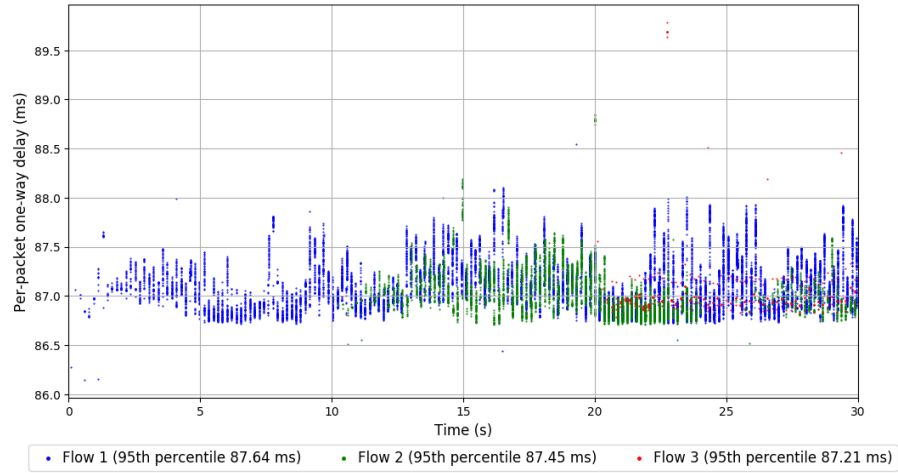
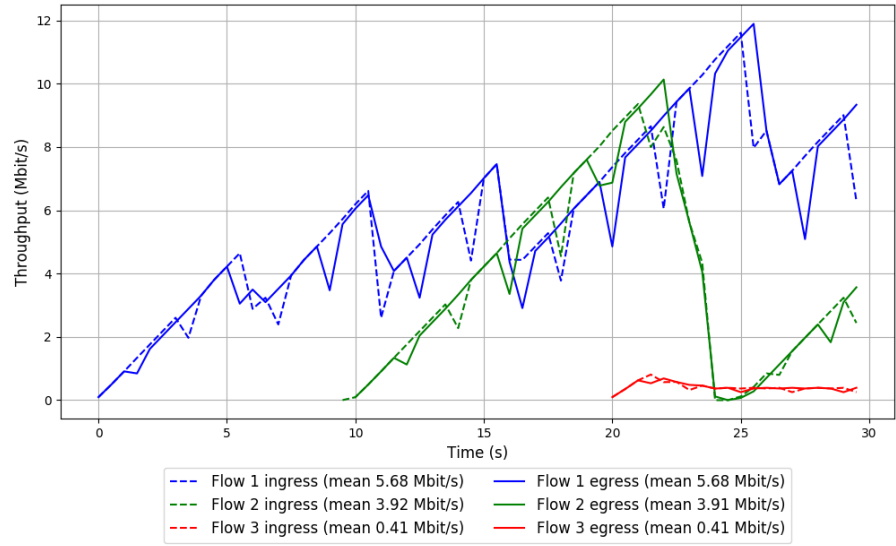


```
Run 4: Statistics of LEDBAT

Start at: 2017-08-12 03:49:16
End at: 2017-08-12 03:49:46

# Below is generated by plot.py at 2017-08-12 06:34:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.41 Mbit/s
95th percentile per-packet one-way delay: 87.596 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 5.68 Mbit/s
95th percentile per-packet one-way delay: 87.640 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 3.91 Mbit/s
95th percentile per-packet one-way delay: 87.452 ms
Loss rate: 0.38%
-- Flow 3:
Average throughput: 0.41 Mbit/s
95th percentile per-packet one-way delay: 87.210 ms
Loss rate: 0.00%
```

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2017-08-12 04:01:01

End at: 2017-08-12 04:01:32

Below is generated by plot.py at 2017-08-12 06:34:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 5.65 Mbit/s

95th percentile per-packet one-way delay: 87.214 ms

Loss rate: 2.00%

-- Flow 1:

Average throughput: 3.47 Mbit/s

95th percentile per-packet one-way delay: 87.233 ms

Loss rate: 1.78%

-- Flow 2:

Average throughput: 3.22 Mbit/s

95th percentile per-packet one-way delay: 87.049 ms

Loss rate: 1.83%

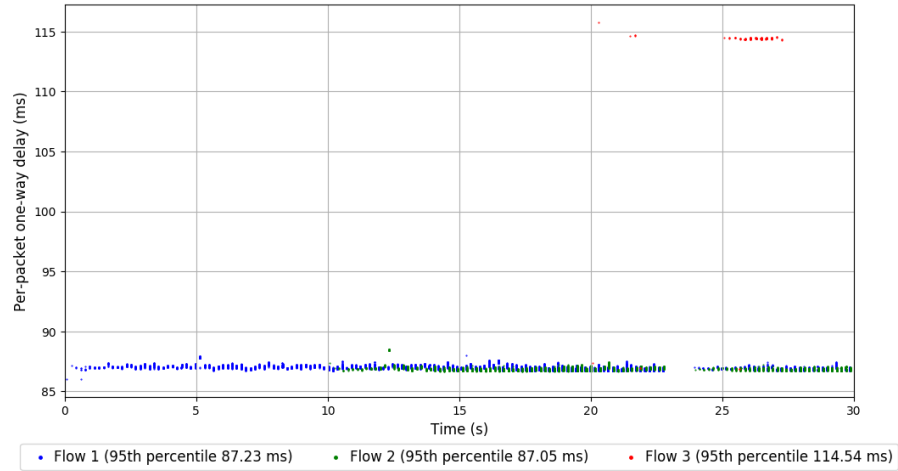
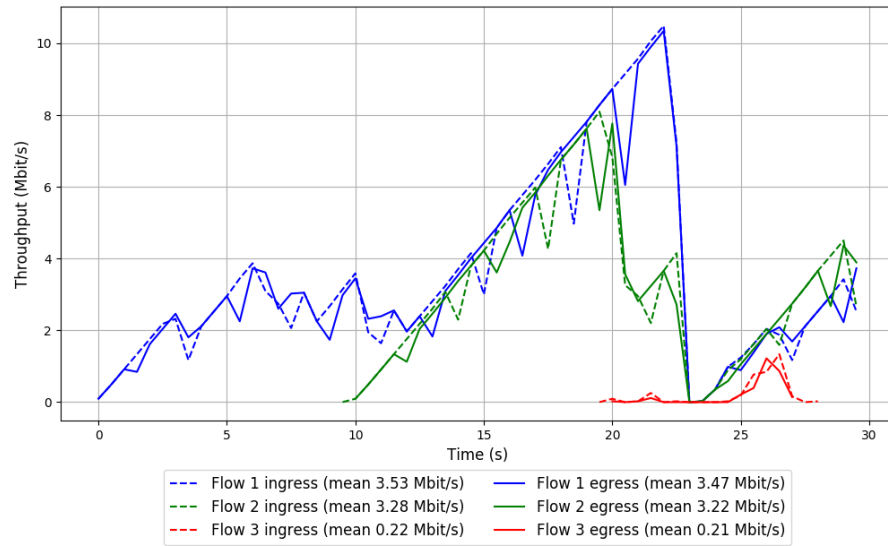
-- Flow 3:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 114.541 ms

Loss rate: 20.04%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2017-08-12 04:13:32

End at: 2017-08-12 04:14:02

Below is generated by plot.py at 2017-08-12 06:34:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 8.12 Mbit/s

95th percentile per-packet one-way delay: 87.313 ms

Loss rate: 1.01%

-- Flow 1:

Average throughput: 4.26 Mbit/s

95th percentile per-packet one-way delay: 87.309 ms

Loss rate: 0.97%

-- Flow 2:

Average throughput: 4.67 Mbit/s

95th percentile per-packet one-way delay: 87.318 ms

Loss rate: 1.27%

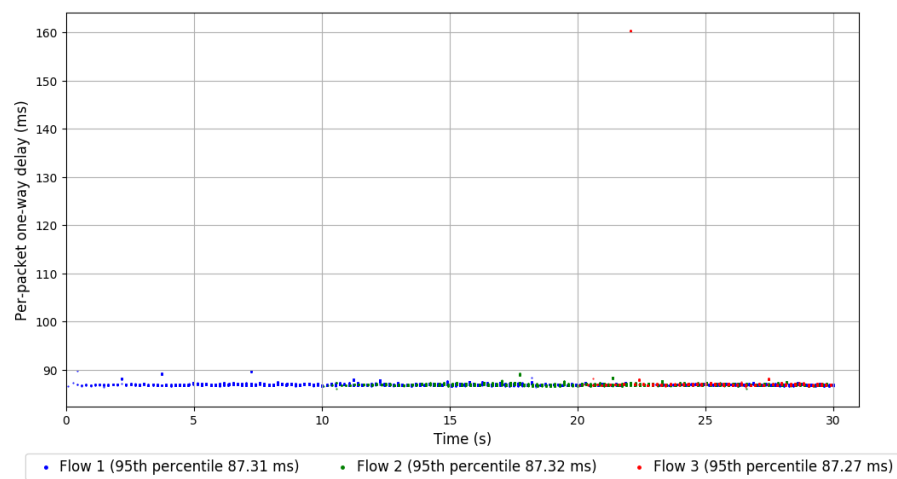
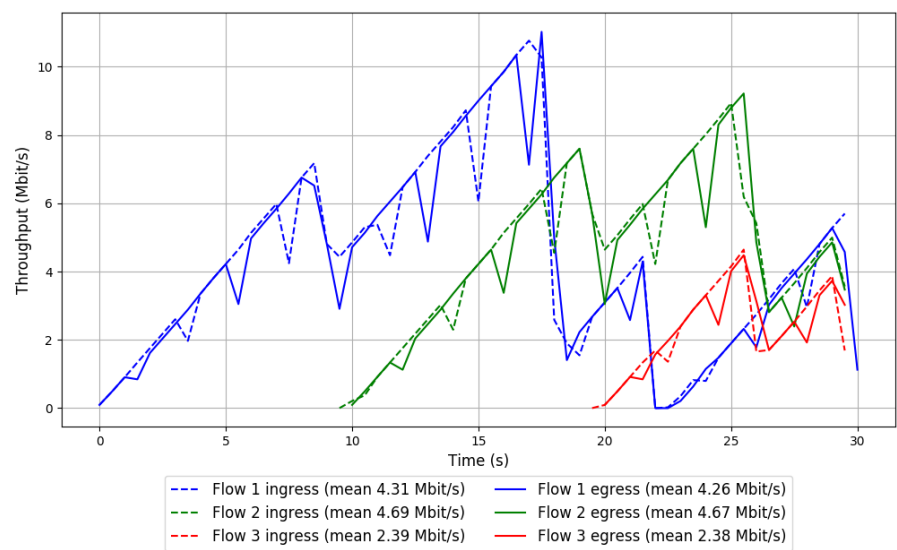
-- Flow 3:

Average throughput: 2.38 Mbit/s

95th percentile per-packet one-way delay: 87.270 ms

Loss rate: 0.25%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2017-08-12 04:26:18

End at: 2017-08-12 04:26:48

Below is generated by plot.py at 2017-08-12 06:34:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 6.67 Mbit/s

95th percentile per-packet one-way delay: 87.228 ms

Loss rate: 0.40%

-- Flow 1:

Average throughput: 3.68 Mbit/s

95th percentile per-packet one-way delay: 87.278 ms

Loss rate: 0.21%

-- Flow 2:

Average throughput: 3.07 Mbit/s

95th percentile per-packet one-way delay: 87.148 ms

Loss rate: 0.71%

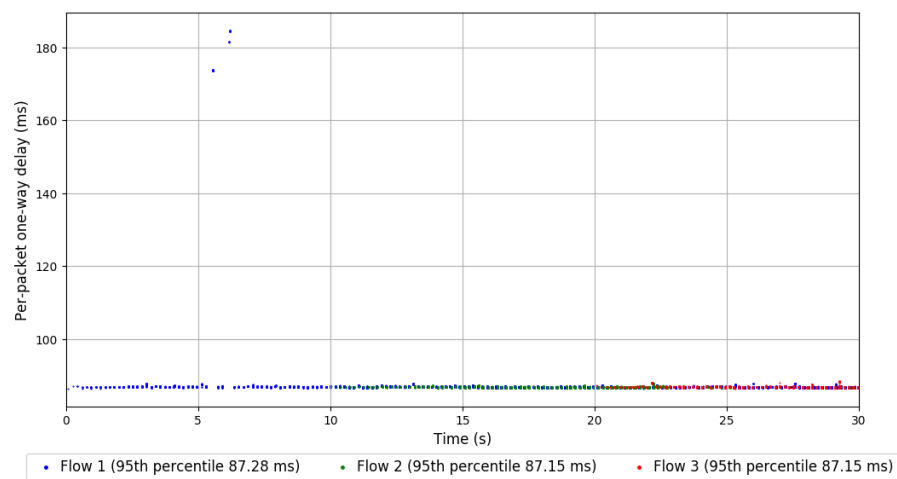
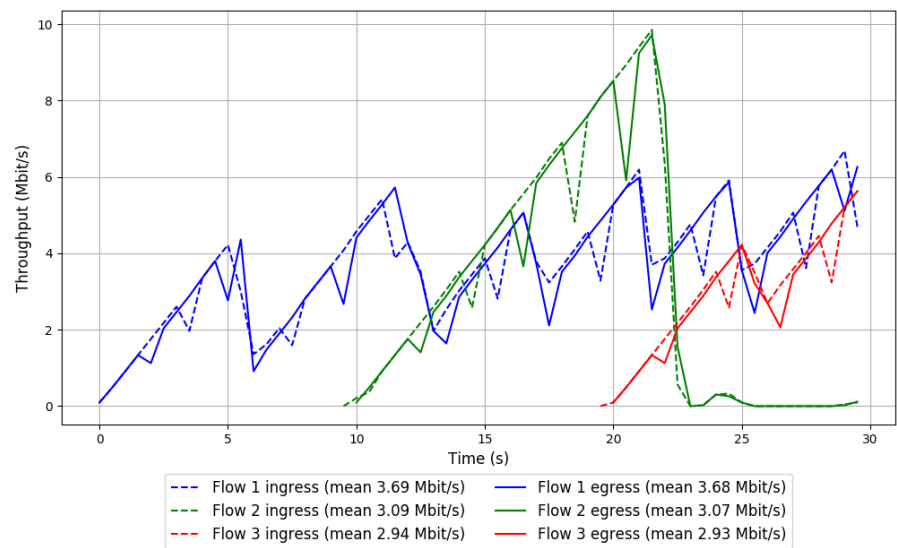
-- Flow 3:

Average throughput: 2.93 Mbit/s

95th percentile per-packet one-way delay: 87.150 ms

Loss rate: 0.48%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2017-08-12 04:38:51

End at: 2017-08-12 04:39:21

Below is generated by plot.py at 2017-08-12 06:34:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 7.91 Mbit/s

95th percentile per-packet one-way delay: 87.239 ms

Loss rate: 0.53%

-- Flow 1:

Average throughput: 3.97 Mbit/s

95th percentile per-packet one-way delay: 87.280 ms

Loss rate: 1.06%

-- Flow 2:

Average throughput: 3.96 Mbit/s

95th percentile per-packet one-way delay: 87.159 ms

Loss rate: 0.00%

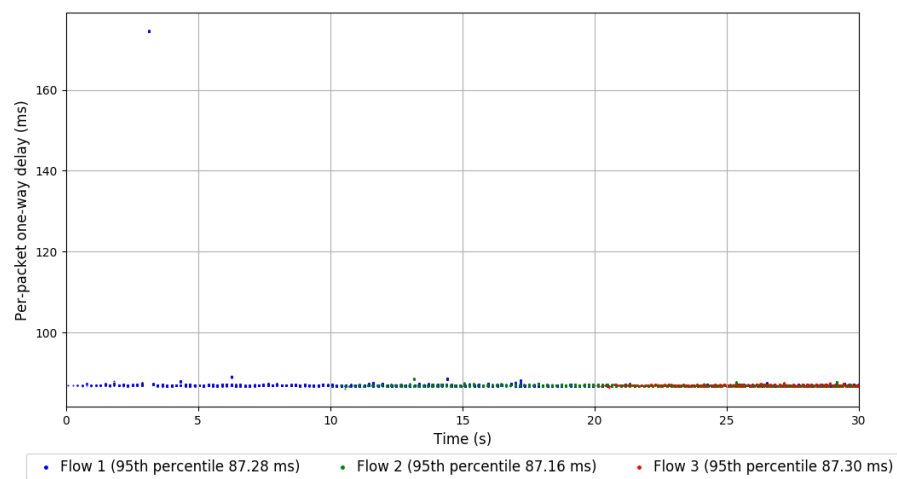
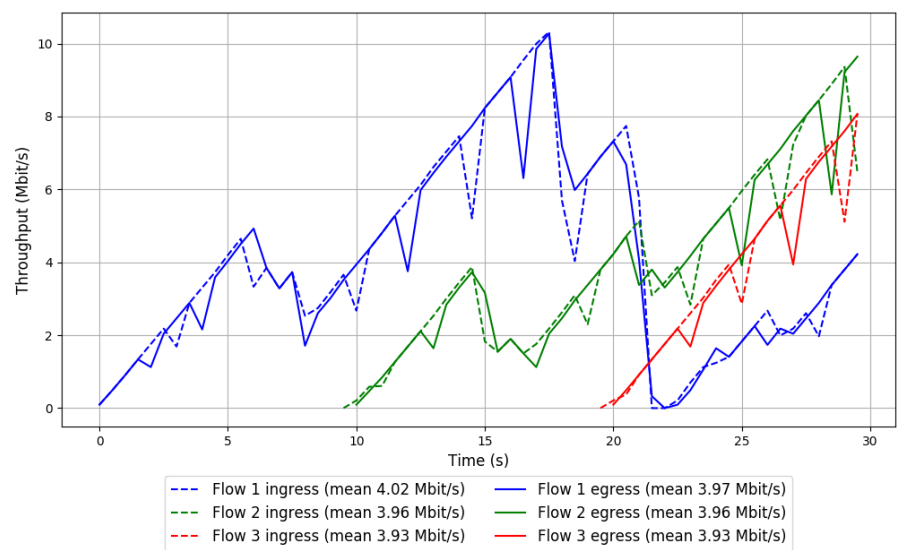
-- Flow 3:

Average throughput: 3.93 Mbit/s

95th percentile per-packet one-way delay: 87.302 ms

Loss rate: 0.00%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2017-08-12 04:51:18

End at: 2017-08-12 04:51:48

Below is generated by plot.py at 2017-08-12 06:34:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 6.71 Mbit/s

95th percentile per-packet one-way delay: 87.947 ms

Loss rate: 0.20%

-- Flow 1:

Average throughput: 3.11 Mbit/s

95th percentile per-packet one-way delay: 87.311 ms

Loss rate: 0.43%

-- Flow 2:

Average throughput: 3.95 Mbit/s

95th percentile per-packet one-way delay: 88.094 ms

Loss rate: 0.01%

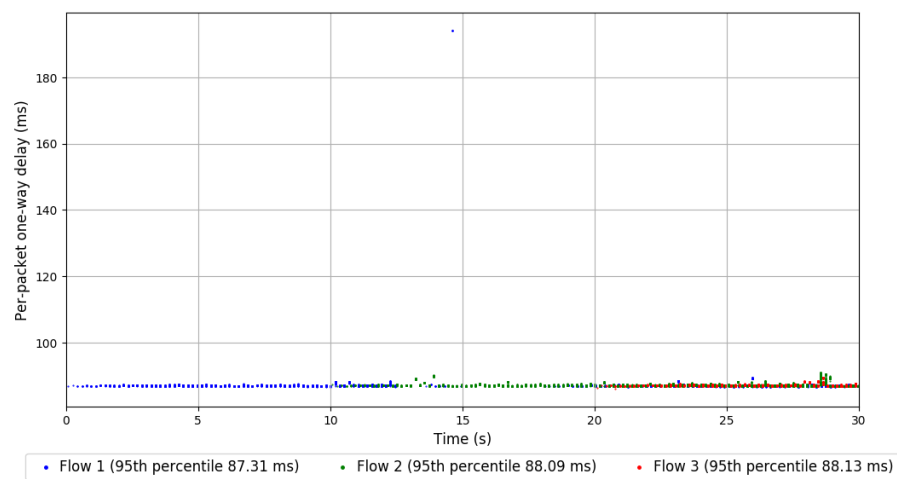
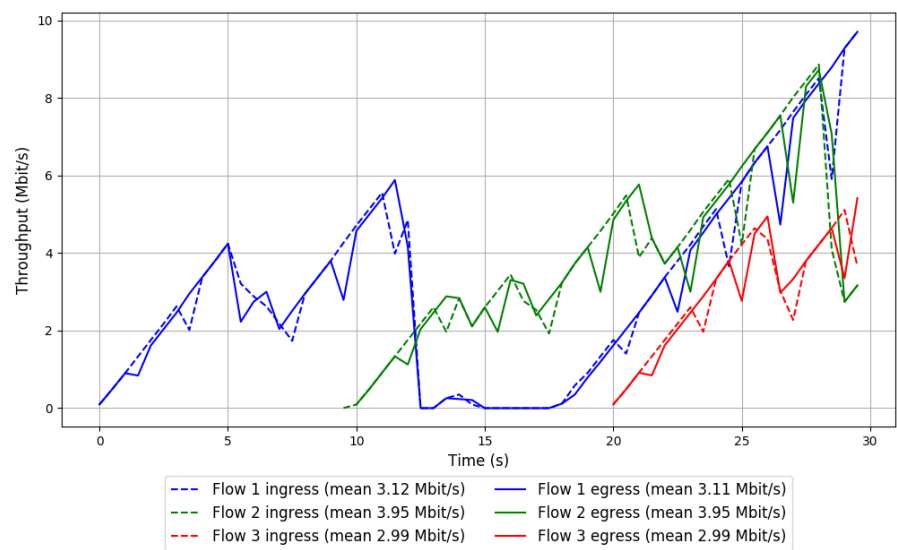
-- Flow 3:

Average throughput: 2.99 Mbit/s

95th percentile per-packet one-way delay: 88.130 ms

Loss rate: 0.00%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2017-08-12 05:03:50

End at: 2017-08-12 05:04:20

Below is generated by plot.py at 2017-08-12 06:34:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 5.31 Mbit/s

95th percentile per-packet one-way delay: 87.223 ms

Loss rate: 1.31%

-- Flow 1:

Average throughput: 1.97 Mbit/s

95th percentile per-packet one-way delay: 87.345 ms

Loss rate: 2.01%

-- Flow 2:

Average throughput: 3.14 Mbit/s

95th percentile per-packet one-way delay: 87.154 ms

Loss rate: 1.41%

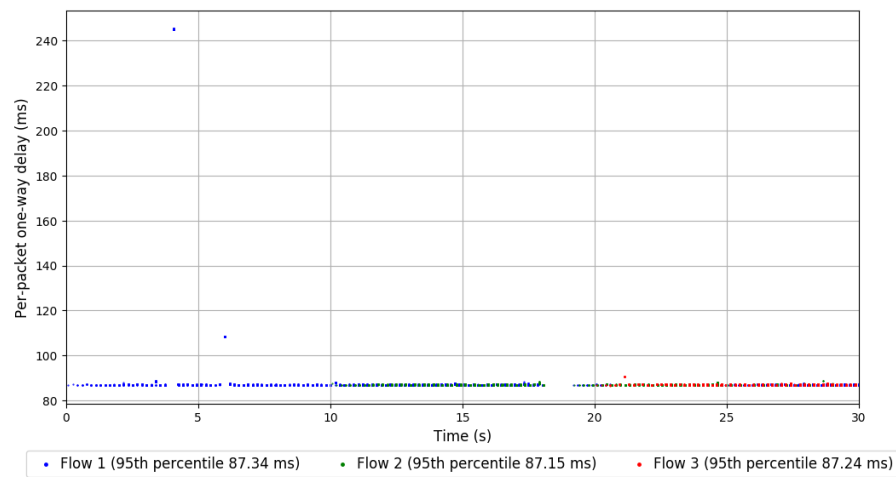
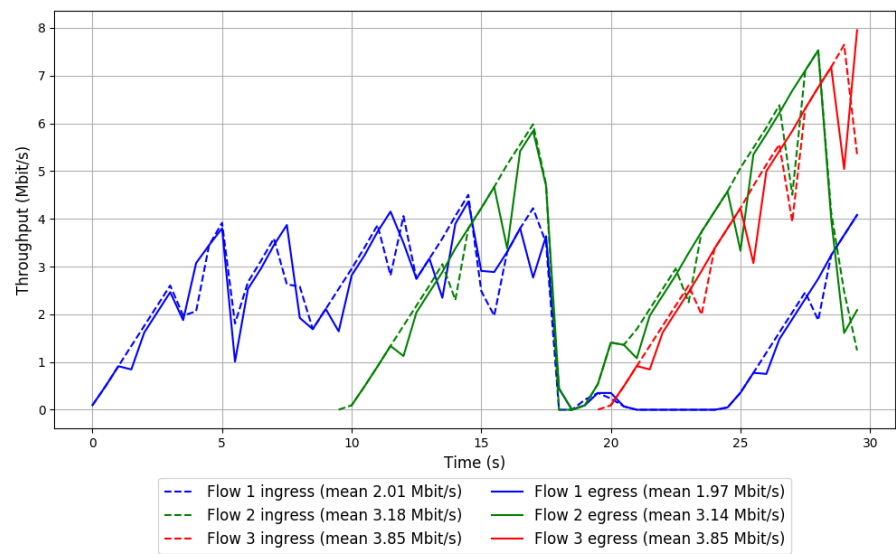
-- Flow 3:

Average throughput: 3.85 Mbit/s

95th percentile per-packet one-way delay: 87.242 ms

Loss rate: 0.00%

Run 10: Report of LEDBAT — Data Link

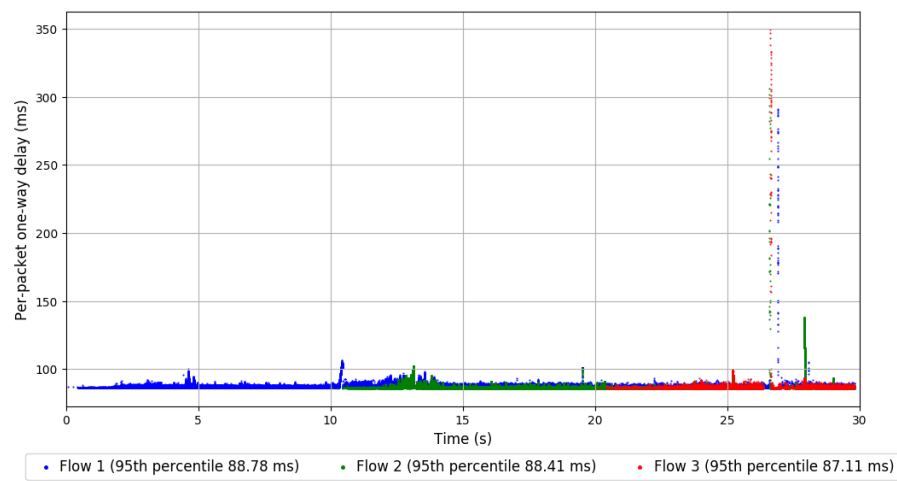
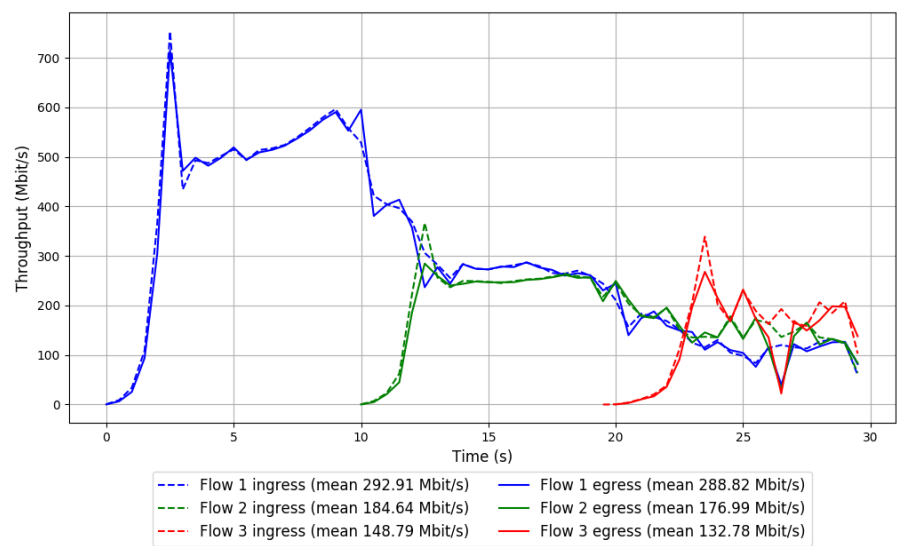


```
Run 1: Statistics of PCC

Start at: 2017-08-12 03:07:57
End at: 2017-08-12 03:08:27

# Below is generated by plot.py at 2017-08-12 06:35:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 449.77 Mbit/s
95th percentile per-packet one-way delay: 88.547 ms
Loss rate: 3.11%
-- Flow 1:
Average throughput: 288.82 Mbit/s
95th percentile per-packet one-way delay: 88.783 ms
Loss rate: 1.40%
-- Flow 2:
Average throughput: 176.99 Mbit/s
95th percentile per-packet one-way delay: 88.408 ms
Loss rate: 4.14%
-- Flow 3:
Average throughput: 132.78 Mbit/s
95th percentile per-packet one-way delay: 87.112 ms
Loss rate: 10.76%
```


Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2017-08-12 03:20:44

End at: 2017-08-12 03:21:14

Below is generated by plot.py at 2017-08-12 06:35:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 328.24 Mbit/s

95th percentile per-packet one-way delay: 87.864 ms

Loss rate: 3.57%

-- Flow 1:

Average throughput: 289.19 Mbit/s

95th percentile per-packet one-way delay: 87.968 ms

Loss rate: 2.54%

-- Flow 2:

Average throughput: 1.87 Mbit/s

95th percentile per-packet one-way delay: 89.253 ms

Loss rate: 3.60%

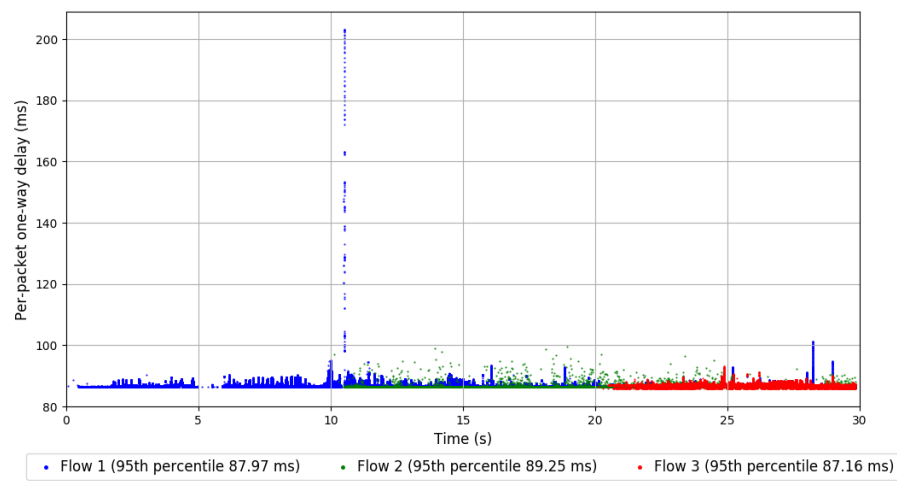
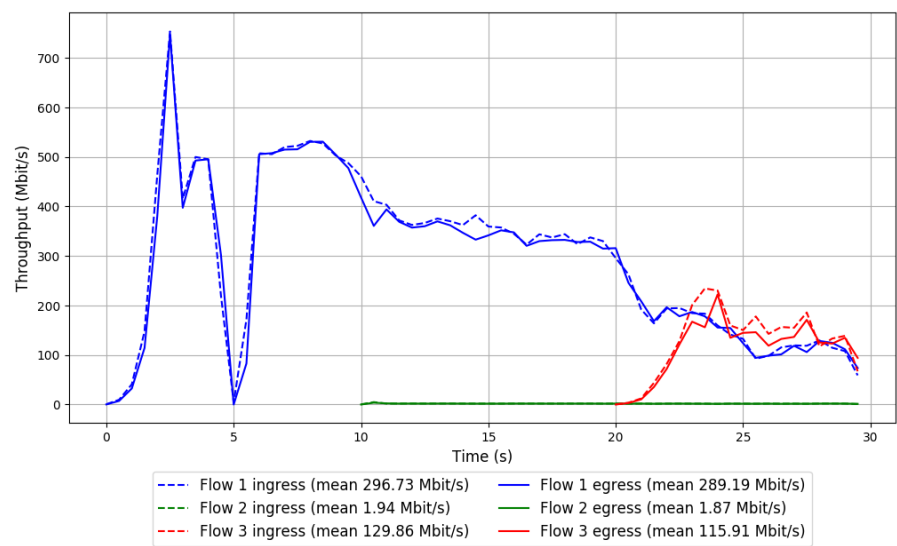
-- Flow 3:

Average throughput: 115.91 Mbit/s

95th percentile per-packet one-way delay: 87.160 ms

Loss rate: 10.74%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2017-08-12 03:34:13

End at: 2017-08-12 03:34:43

Below is generated by plot.py at 2017-08-12 06:36:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 330.06 Mbit/s

95th percentile per-packet one-way delay: 88.113 ms

Loss rate: 9.72%

-- Flow 1:

Average throughput: 277.92 Mbit/s

95th percentile per-packet one-way delay: 88.419 ms

Loss rate: 10.91%

-- Flow 2:

Average throughput: 8.66 Mbit/s

95th percentile per-packet one-way delay: 86.914 ms

Loss rate: 4.39%

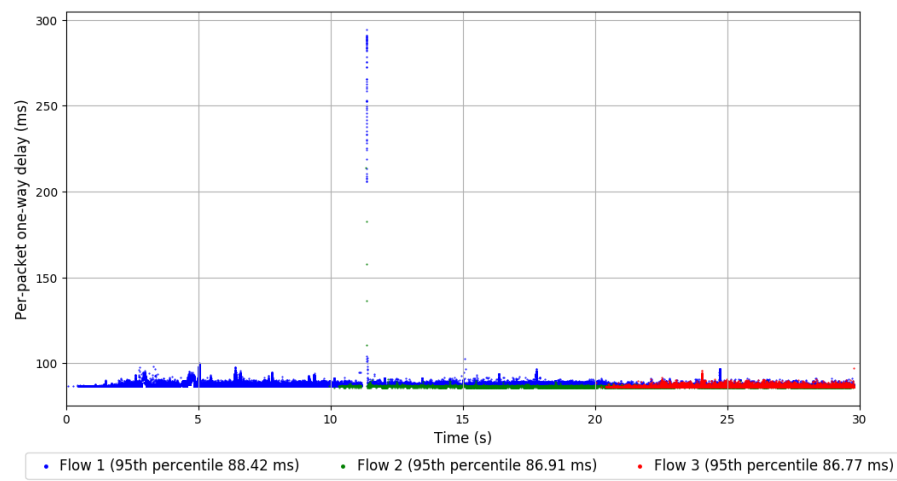
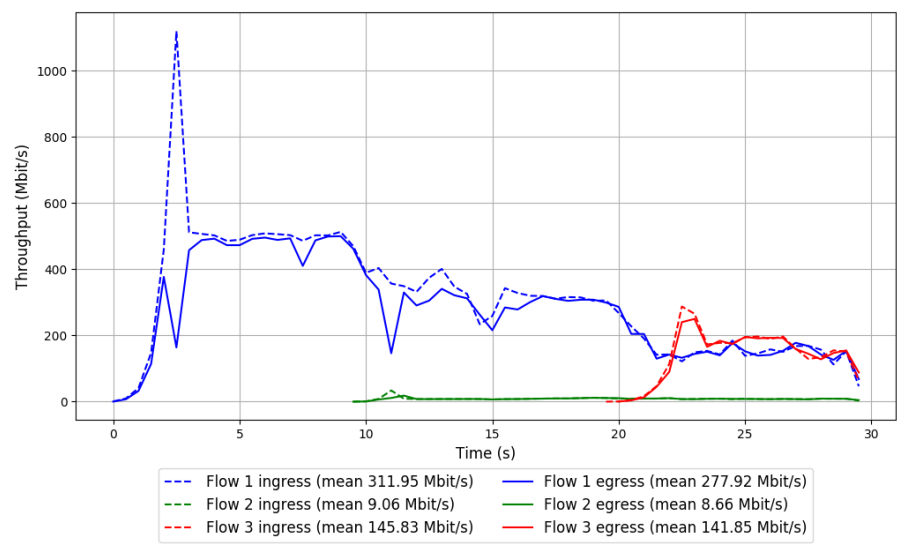
-- Flow 3:

Average throughput: 141.85 Mbit/s

95th percentile per-packet one-way delay: 86.768 ms

Loss rate: 2.66%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2017-08-12 03:47:31

End at: 2017-08-12 03:48:01

Below is generated by plot.py at 2017-08-12 06:36:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 366.21 Mbit/s

95th percentile per-packet one-way delay: 90.369 ms

Loss rate: 2.67%

-- Flow 1:

Average throughput: 313.79 Mbit/s

95th percentile per-packet one-way delay: 90.544 ms

Loss rate: 1.91%

-- Flow 2:

Average throughput: 0.02 Mbit/s

95th percentile per-packet one-way delay: 86.410 ms

Loss rate: 99.65%

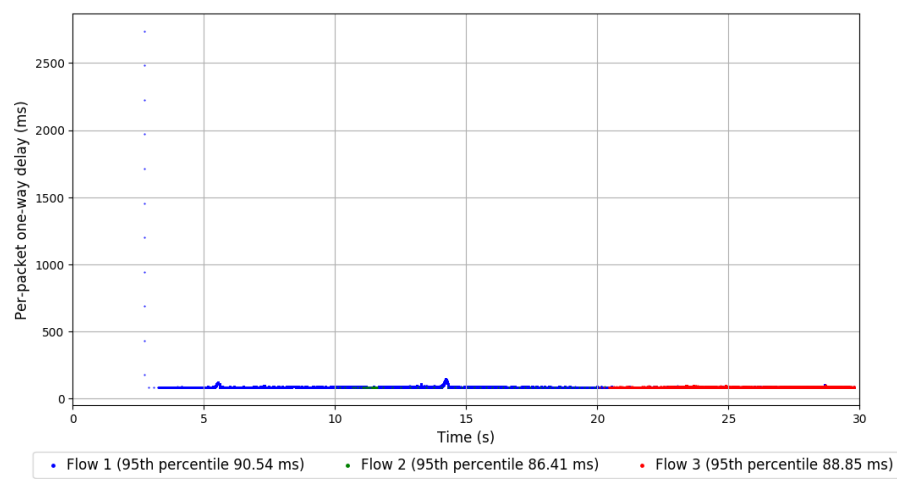
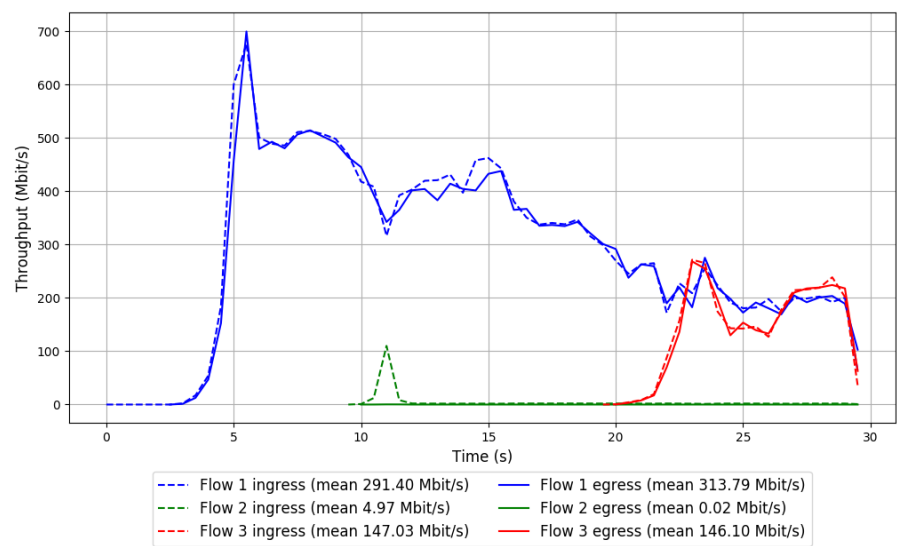
-- Flow 3:

Average throughput: 146.10 Mbit/s

95th percentile per-packet one-way delay: 88.849 ms

Loss rate: 0.59%

Run 4: Report of PCC — Data Link

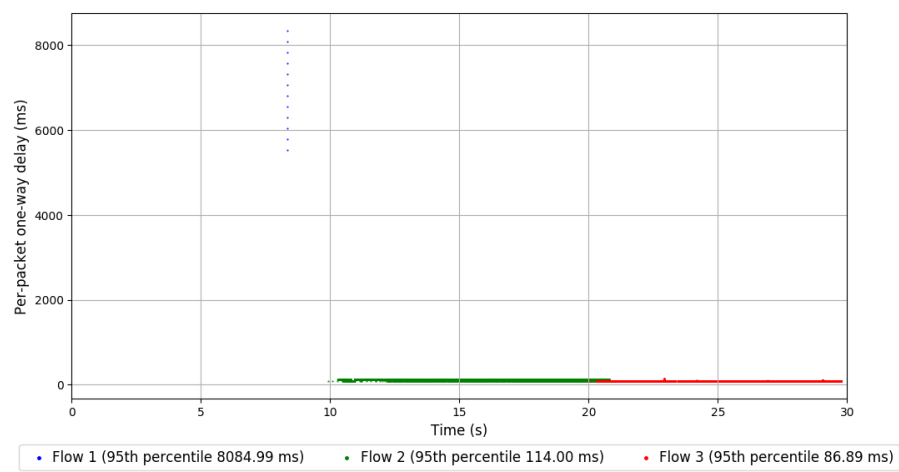
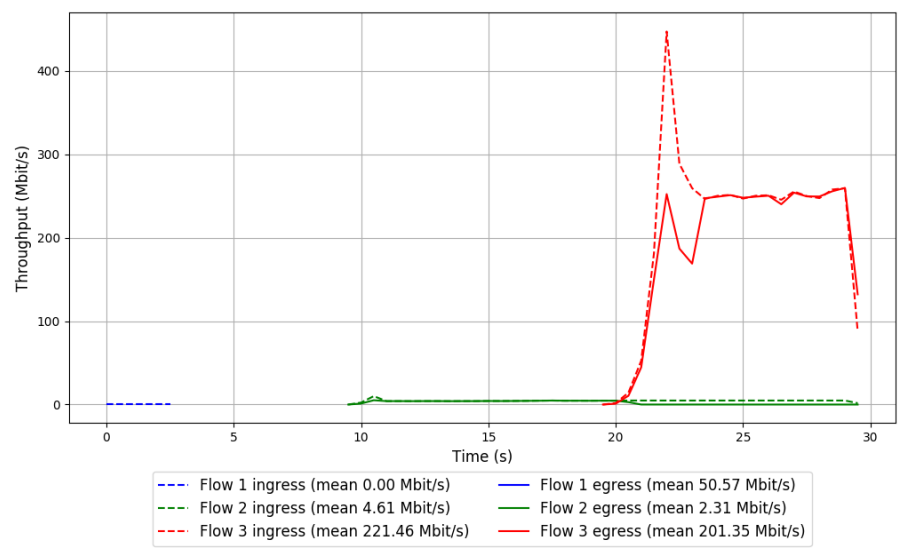


Run 5: Statistics of PCC

Start at: 2017-08-12 03:59:31

End at: 2017-08-12 04:00:01

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2017-08-12 04:11:51

End at: 2017-08-12 04:12:21

Below is generated by plot.py at 2017-08-12 06:37:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 291.84 Mbit/s

95th percentile per-packet one-way delay: 86.934 ms

Loss rate: 4.95%

-- Flow 1:

Average throughput: 182.41 Mbit/s

95th percentile per-packet one-way delay: 86.900 ms

Loss rate: 4.57%

-- Flow 2:

Average throughput: 96.06 Mbit/s

95th percentile per-packet one-way delay: 86.931 ms

Loss rate: 6.81%

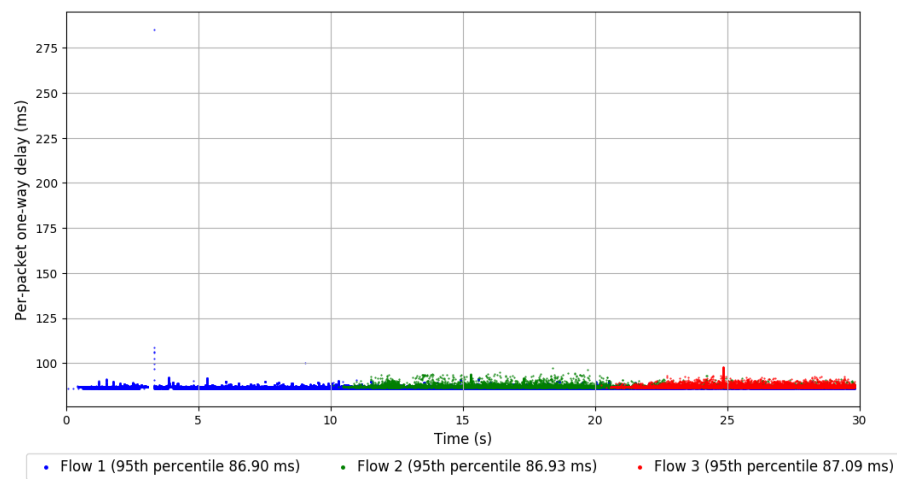
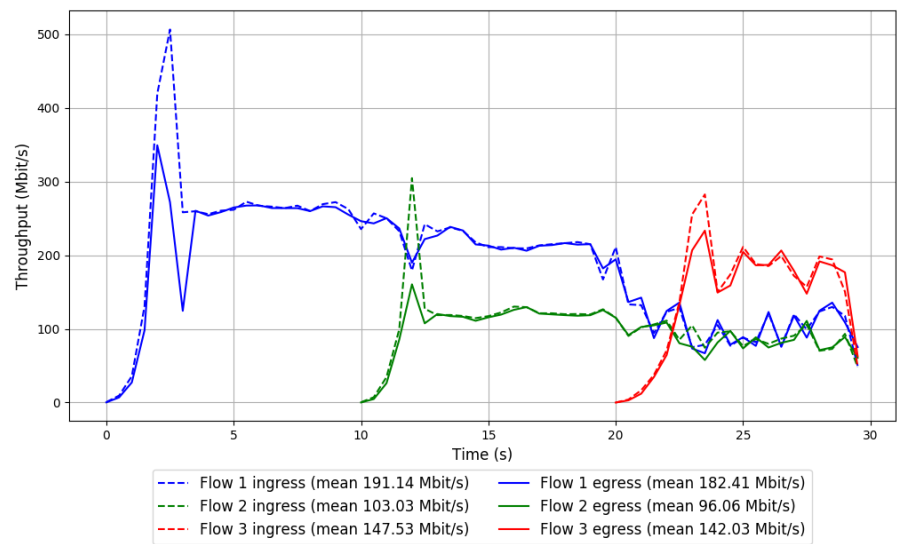
-- Flow 3:

Average throughput: 142.03 Mbit/s

95th percentile per-packet one-way delay: 87.089 ms

Loss rate: 3.84%

Run 6: Report of PCC — Data Link

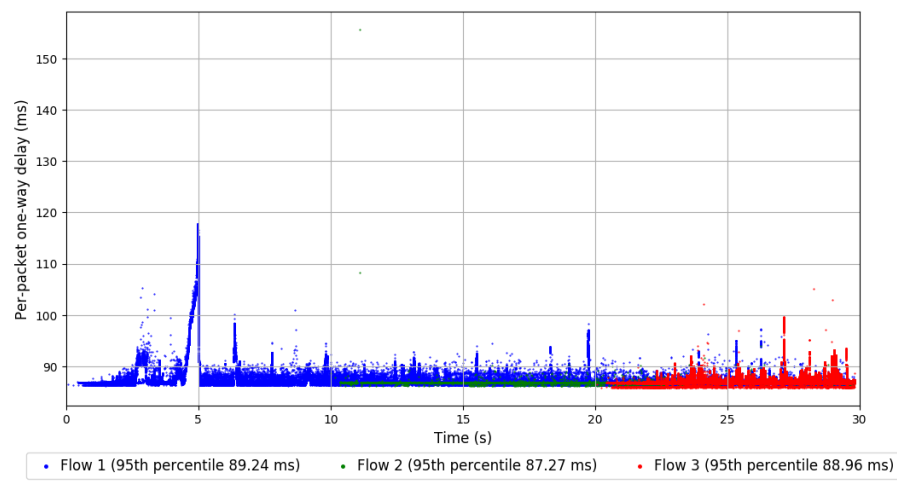
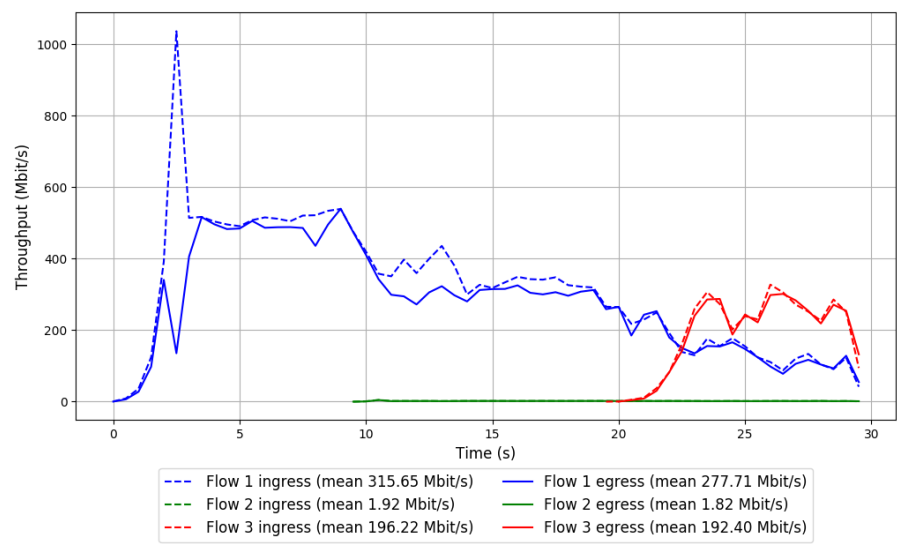


```
Run 7: Statistics of PCC

Start at: 2017-08-12 04:24:21
End at: 2017-08-12 04:24:51

# Below is generated by plot.py at 2017-08-12 06:37:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 341.84 Mbit/s
95th percentile per-packet one-way delay: 89.130 ms
Loss rate: 10.29%
-- Flow 1:
Average throughput: 277.71 Mbit/s
95th percentile per-packet one-way delay: 89.241 ms
Loss rate: 12.02%
-- Flow 2:
Average throughput: 1.82 Mbit/s
95th percentile per-packet one-way delay: 87.267 ms
Loss rate: 5.18%
-- Flow 3:
Average throughput: 192.40 Mbit/s
95th percentile per-packet one-way delay: 88.957 ms
Loss rate: 1.94%
```

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2017-08-12 04:37:05

End at: 2017-08-12 04:37:35

Below is generated by plot.py at 2017-08-12 06:38:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 405.33 Mbit/s

95th percentile per-packet one-way delay: 89.939 ms

Loss rate: 9.75%

-- Flow 1:

Average throughput: 263.34 Mbit/s

95th percentile per-packet one-way delay: 91.317 ms

Loss rate: 10.66%

-- Flow 2:

Average throughput: 148.22 Mbit/s

95th percentile per-packet one-way delay: 88.567 ms

Loss rate: 9.80%

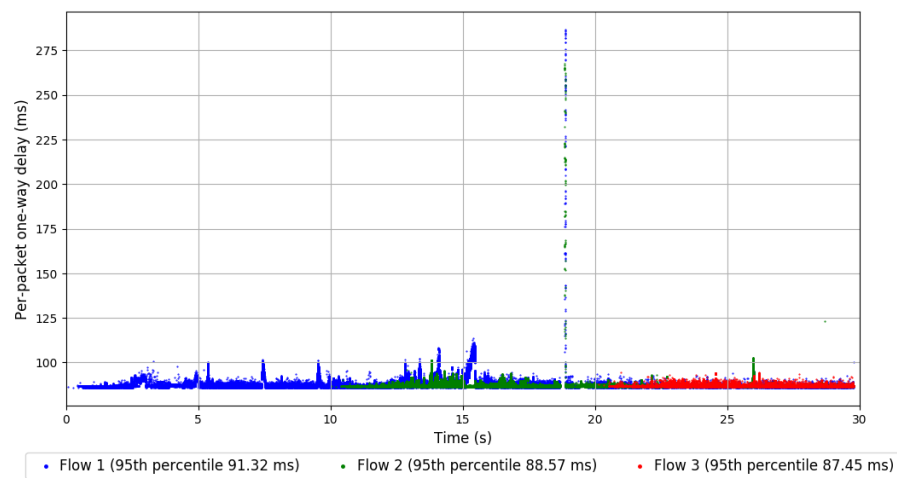
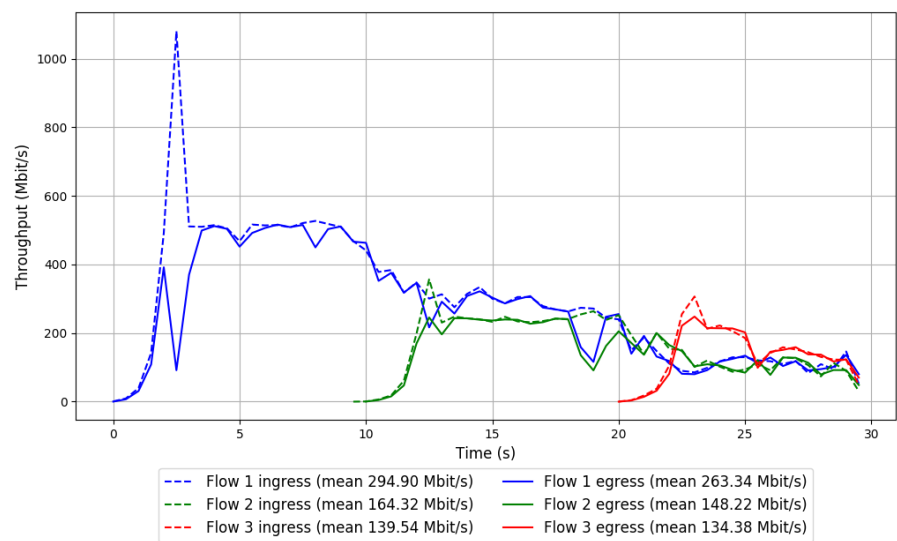
-- Flow 3:

Average throughput: 134.38 Mbit/s

95th percentile per-packet one-way delay: 87.446 ms

Loss rate: 3.71%

Run 8: Report of PCC — Data Link

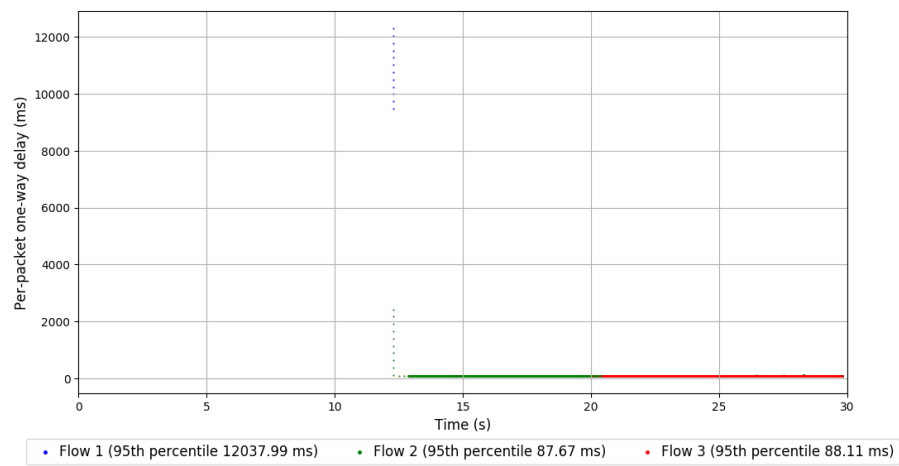
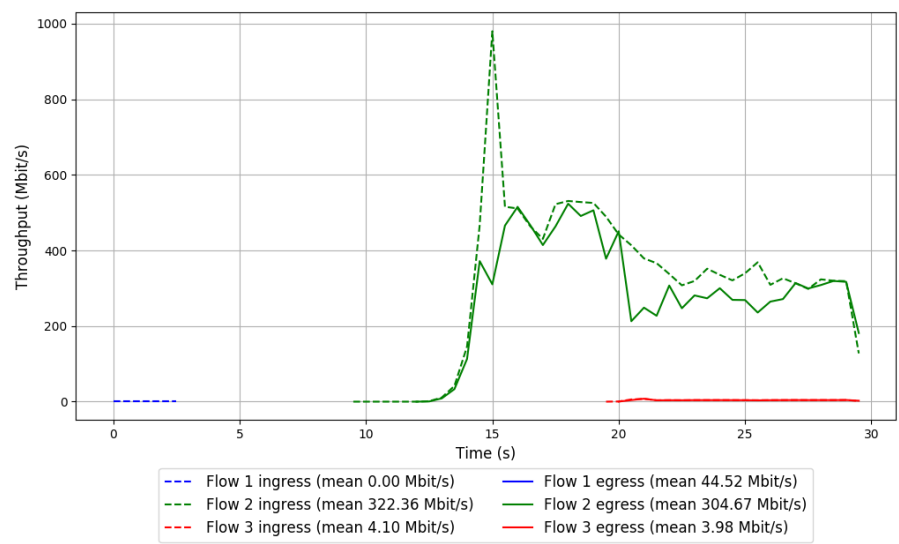


Run 9: Statistics of PCC

Start at: 2017-08-12 04:49:42

End at: 2017-08-12 04:50:12

Run 9: Report of PCC — Data Link

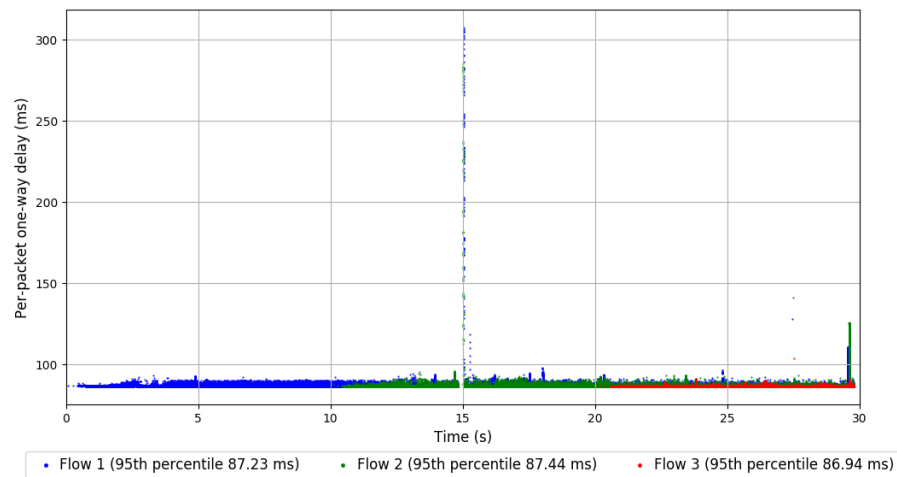
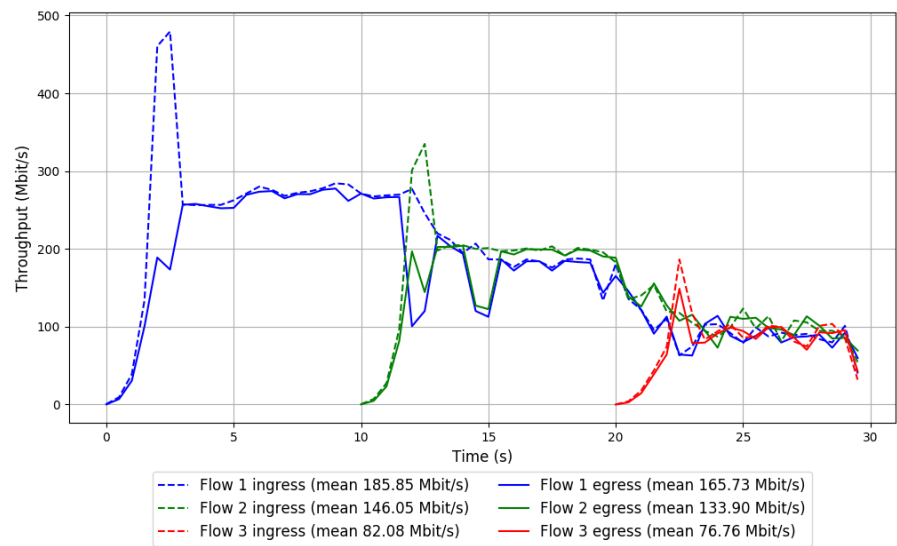


```
Run 10: Statistics of PCC

Start at: 2017-08-12 05:02:09
End at: 2017-08-12 05:02:39

# Below is generated by plot.py at 2017-08-12 06:39:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 279.35 Mbit/s
95th percentile per-packet one-way delay: 87.252 ms
Loss rate: 9.67%
-- Flow 1:
Average throughput: 165.73 Mbit/s
95th percentile per-packet one-way delay: 87.234 ms
Loss rate: 10.83%
-- Flow 2:
Average throughput: 133.90 Mbit/s
95th percentile per-packet one-way delay: 87.435 ms
Loss rate: 8.33%
-- Flow 3:
Average throughput: 76.76 Mbit/s
95th percentile per-packet one-way delay: 86.942 ms
Loss rate: 6.48%
```

Run 10: Report of PCC — Data Link

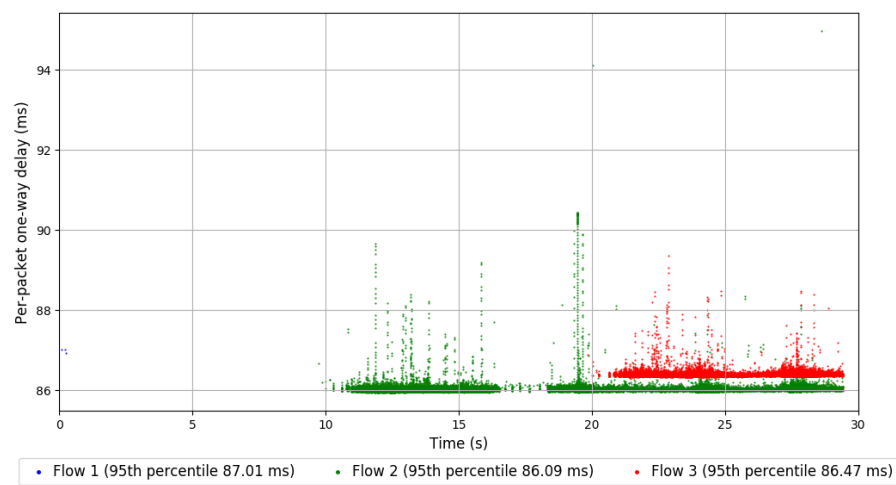
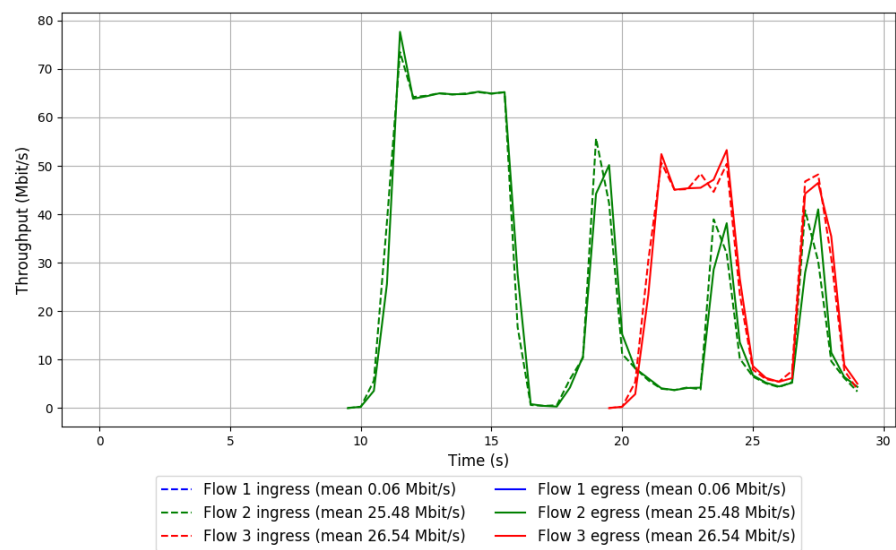


```
Run 1: Statistics of QUIC Cubic

Start at: 2017-08-12 03:02:45
End at: 2017-08-12 03:03:15

# Below is generated by plot.py at 2017-08-12 06:39:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 25.77 Mbit/s
95th percentile per-packet one-way delay: 86.419 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 87.009 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 25.48 Mbit/s
95th percentile per-packet one-way delay: 86.094 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 26.54 Mbit/s
95th percentile per-packet one-way delay: 86.468 ms
Loss rate: 0.00%
```

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2017-08-12 03:15:48

End at: 2017-08-12 03:16:18

Below is generated by plot.py at 2017-08-12 06:39:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 29.98 Mbit/s

95th percentile per-packet one-way delay: 86.932 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 86.856 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 34.39 Mbit/s

95th percentile per-packet one-way delay: 86.962 ms

Loss rate: 0.00%

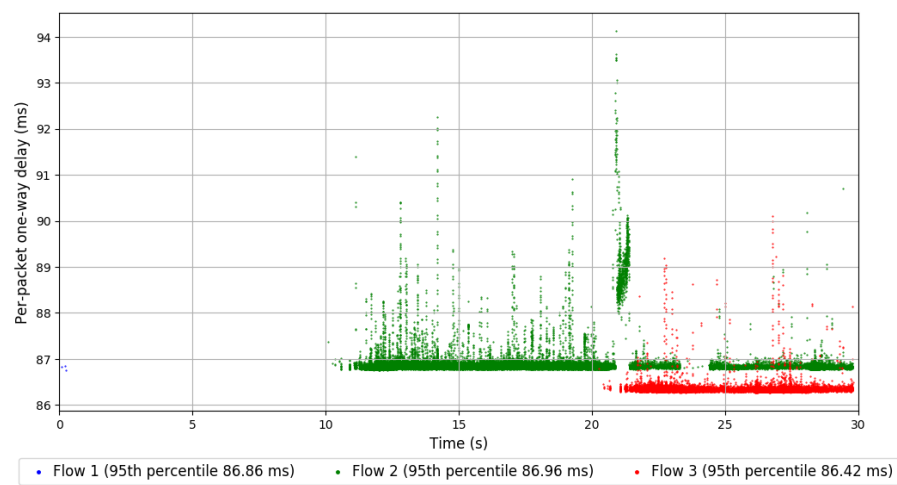
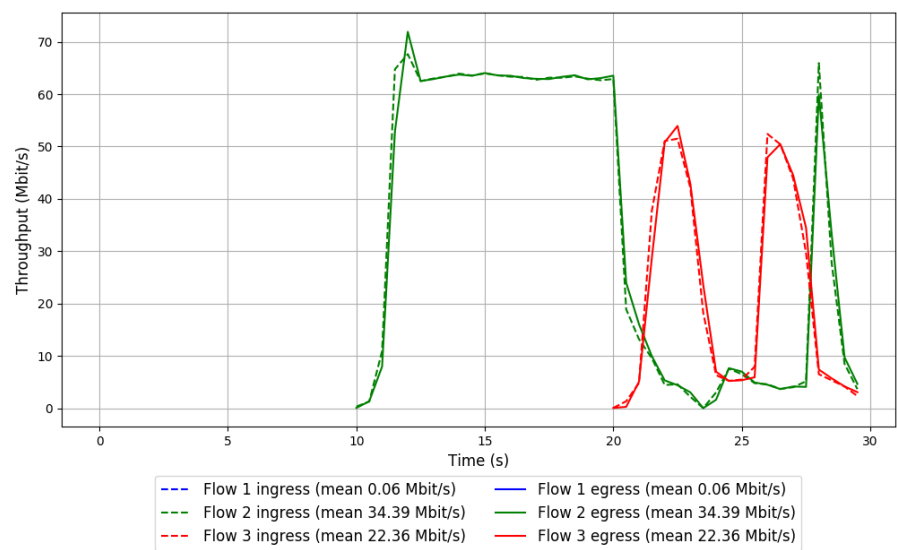
-- Flow 3:

Average throughput: 22.36 Mbit/s

95th percentile per-packet one-way delay: 86.415 ms

Loss rate: 0.00%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2017-08-12 03:29:03

End at: 2017-08-12 03:29:33

Below is generated by plot.py at 2017-08-12 06:39:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 21.65 Mbit/s

95th percentile per-packet one-way delay: 86.480 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 86.055 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 18.23 Mbit/s

95th percentile per-packet one-way delay: 86.035 ms

Loss rate: 0.00%

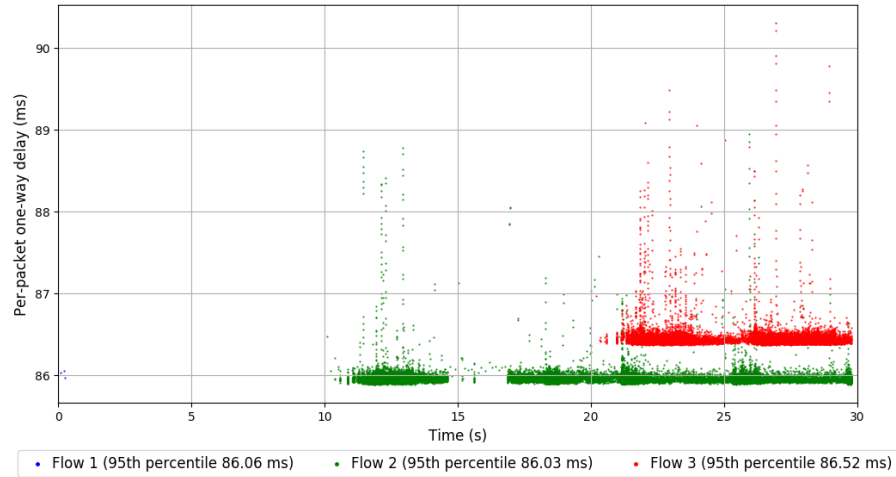
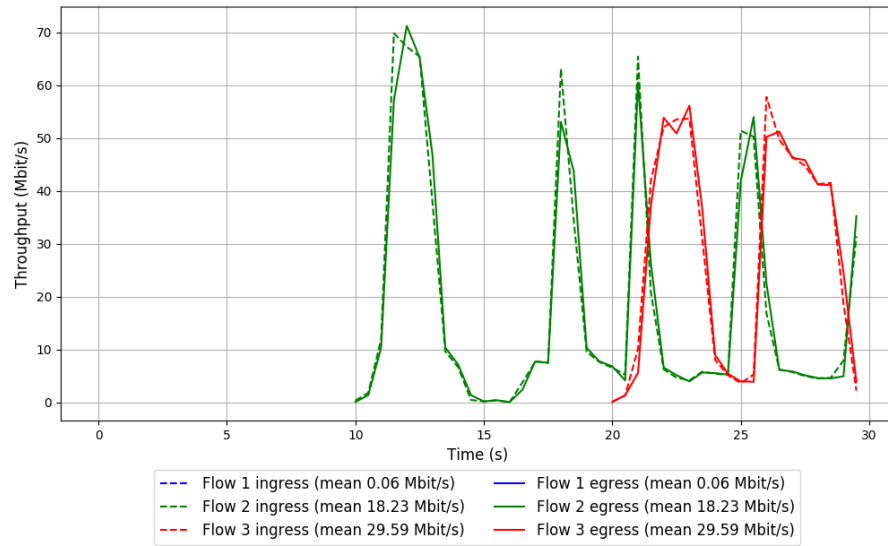
-- Flow 3:

Average throughput: 29.59 Mbit/s

95th percentile per-packet one-way delay: 86.519 ms

Loss rate: 0.00%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2017-08-12 03:42:29

End at: 2017-08-12 03:42:59

Below is generated by plot.py at 2017-08-12 06:39:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 22.63 Mbit/s

95th percentile per-packet one-way delay: 113.932 ms

Loss rate: 0.14%

-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 86.929 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 24.50 Mbit/s

95th percentile per-packet one-way delay: 113.947 ms

Loss rate: 0.20%

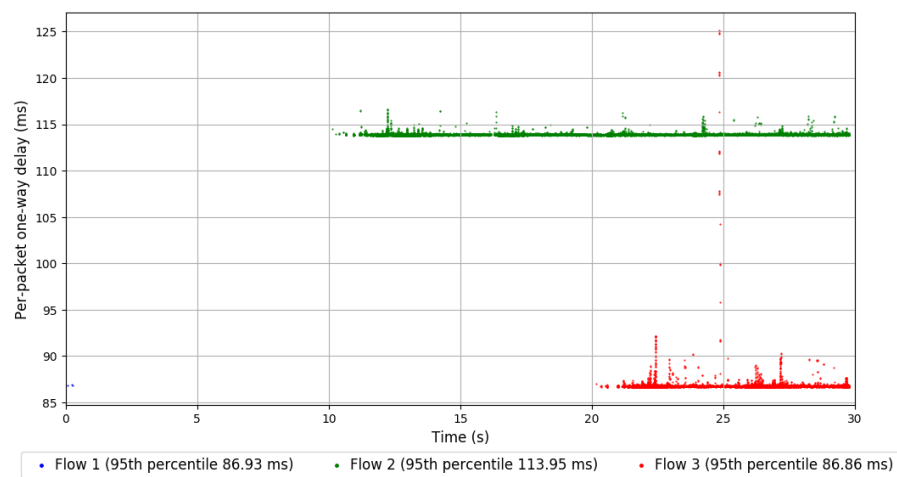
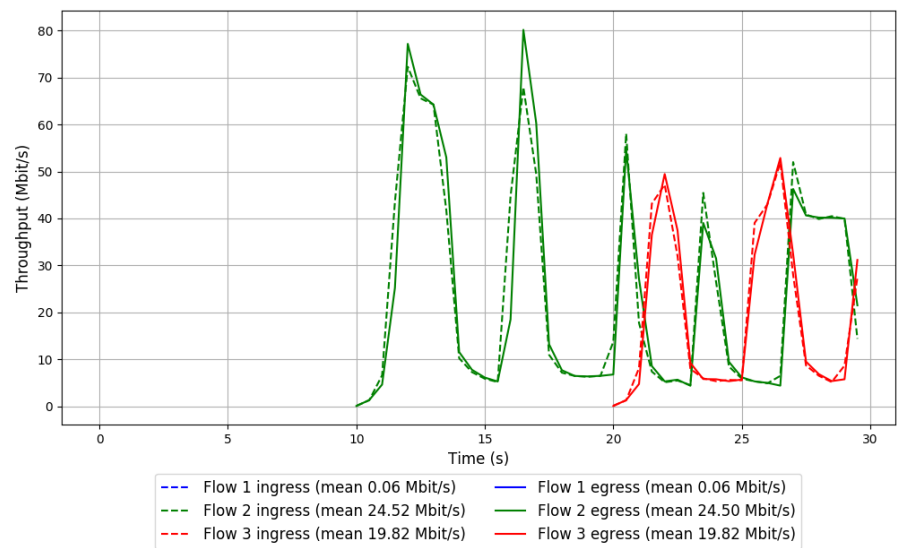
-- Flow 3:

Average throughput: 19.82 Mbit/s

95th percentile per-packet one-way delay: 86.859 ms

Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2017-08-12 03:55:03

End at: 2017-08-12 03:55:33

Below is generated by plot.py at 2017-08-12 06:39:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 29.24 Mbit/s

95th percentile per-packet one-way delay: 86.396 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 86.520 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 33.25 Mbit/s

95th percentile per-packet one-way delay: 86.404 ms

Loss rate: 0.00%

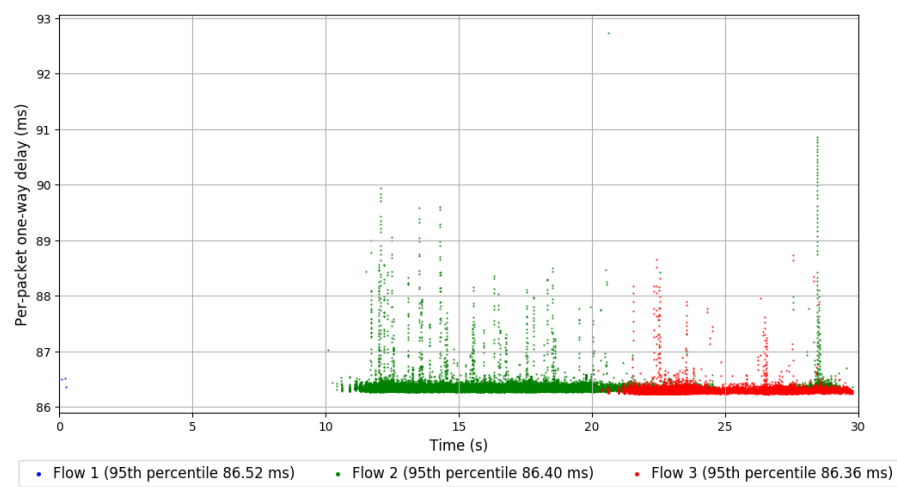
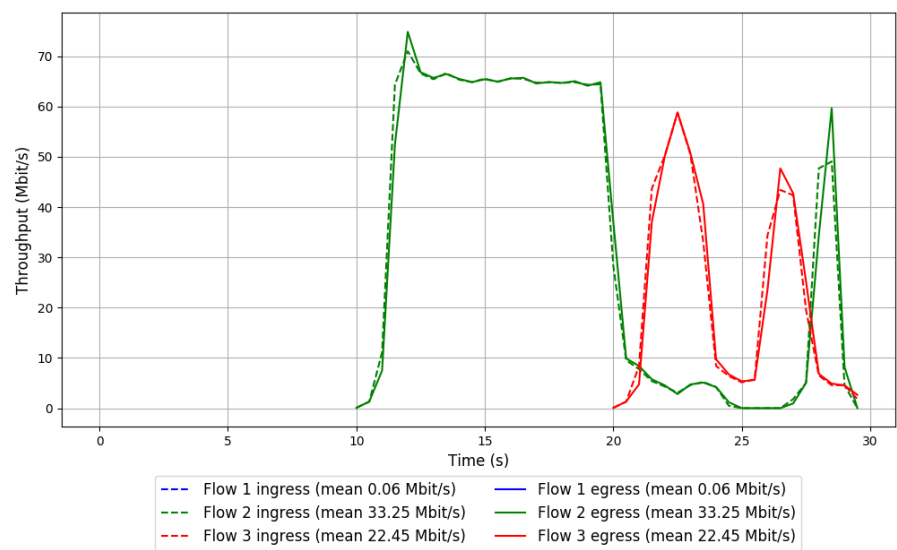
-- Flow 3:

Average throughput: 22.45 Mbit/s

95th percentile per-packet one-way delay: 86.355 ms

Loss rate: 0.00%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2017-08-12 04:07:00

End at: 2017-08-12 04:07:30

Below is generated by plot.py at 2017-08-12 06:39:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 25.53 Mbit/s

95th percentile per-packet one-way delay: 86.829 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 86.344 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 27.75 Mbit/s

95th percentile per-packet one-way delay: 86.842 ms

Loss rate: 0.00%

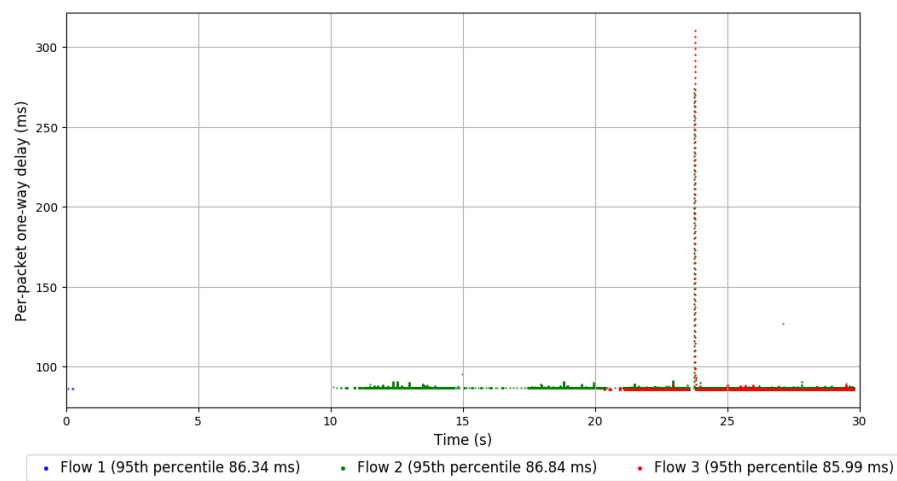
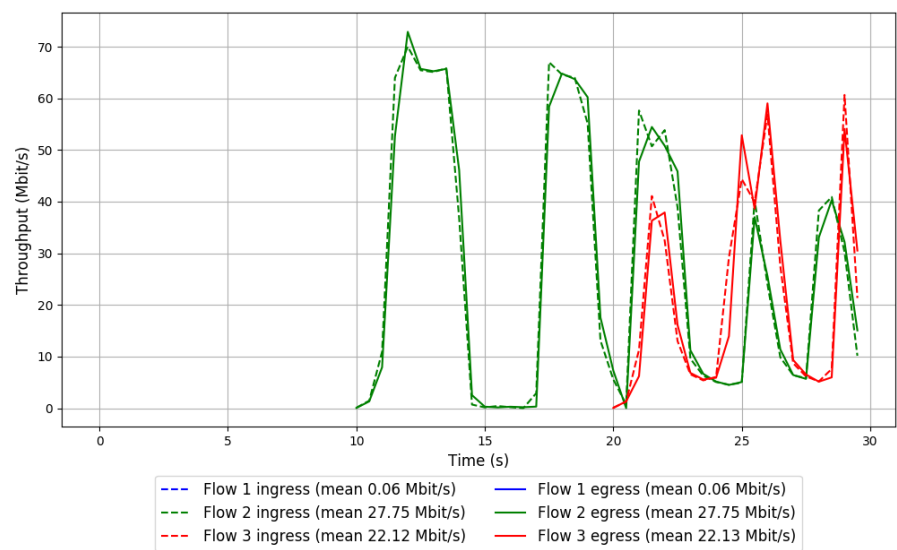
-- Flow 3:

Average throughput: 22.13 Mbit/s

95th percentile per-packet one-way delay: 85.988 ms

Loss rate: 0.01%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2017-08-12 04:19:27

End at: 2017-08-12 04:19:57

Below is generated by plot.py at 2017-08-12 06:39:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 30.84 Mbit/s

95th percentile per-packet one-way delay: 90.462 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 86.049 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 35.64 Mbit/s

95th percentile per-packet one-way delay: 90.566 ms

Loss rate: 0.00%

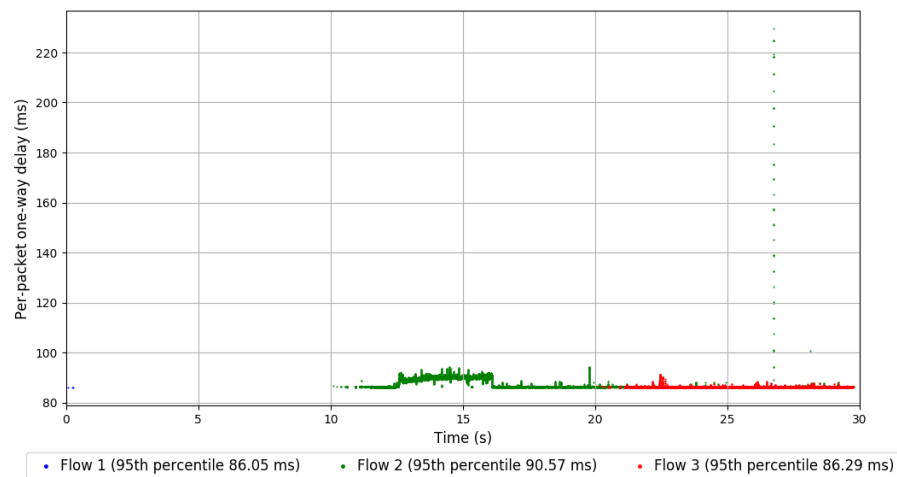
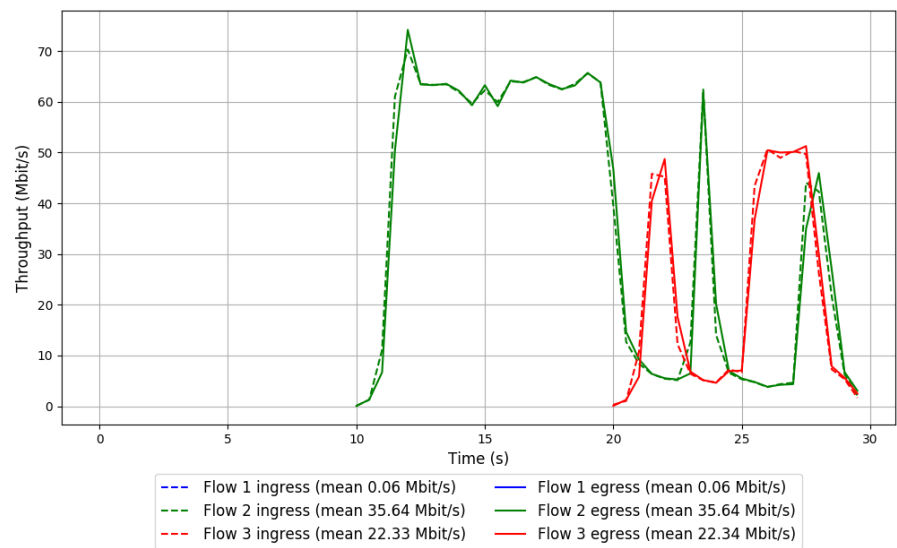
-- Flow 3:

Average throughput: 22.34 Mbit/s

95th percentile per-packet one-way delay: 86.291 ms

Loss rate: 0.00%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2017-08-12 04:32:14

End at: 2017-08-12 04:32:44

Below is generated by plot.py at 2017-08-12 06:39:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 11.73 Mbit/s

95th percentile per-packet one-way delay: 86.840 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 86.913 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 10.12 Mbit/s

95th percentile per-packet one-way delay: 86.009 ms

Loss rate: 0.00%

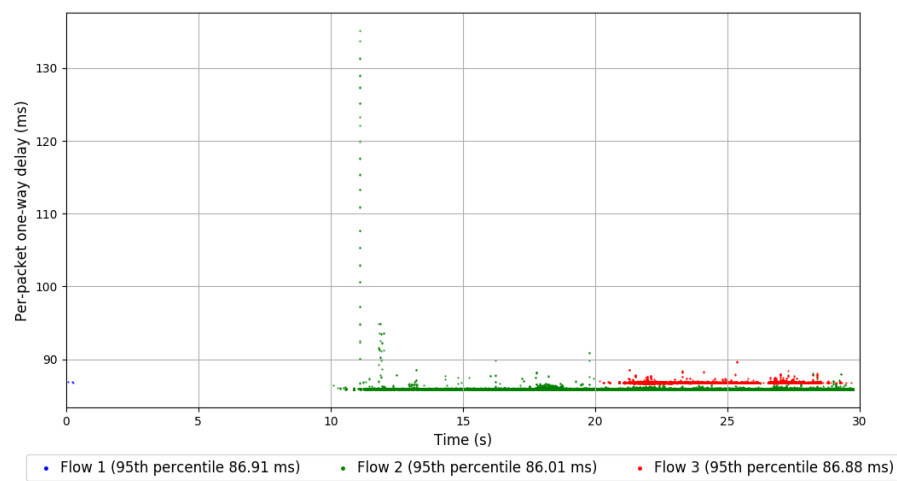
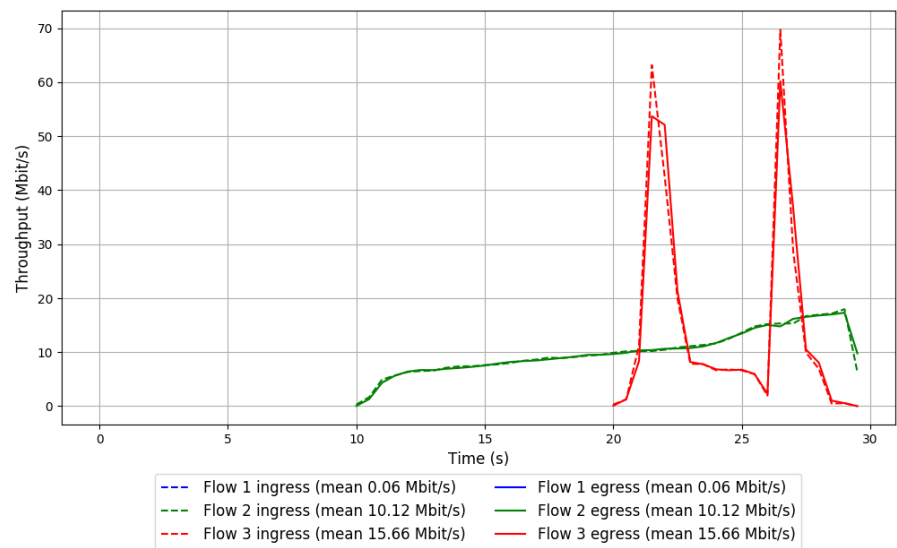
-- Flow 3:

Average throughput: 15.66 Mbit/s

95th percentile per-packet one-way delay: 86.879 ms

Loss rate: 0.00%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2017-08-12 04:44:49

End at: 2017-08-12 04:45:19

Below is generated by plot.py at 2017-08-12 06:39:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 28.54 Mbit/s

95th percentile per-packet one-way delay: 86.801 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 86.454 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 33.65 Mbit/s

95th percentile per-packet one-way delay: 86.184 ms

Loss rate: 0.00%

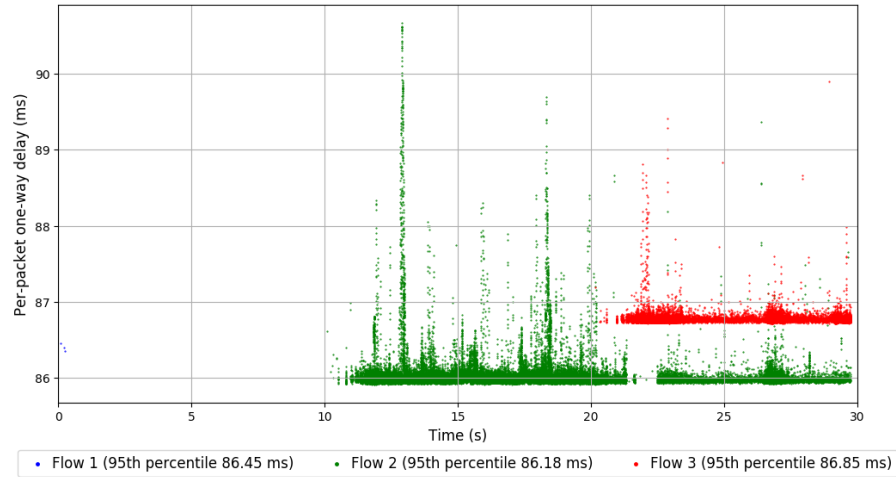
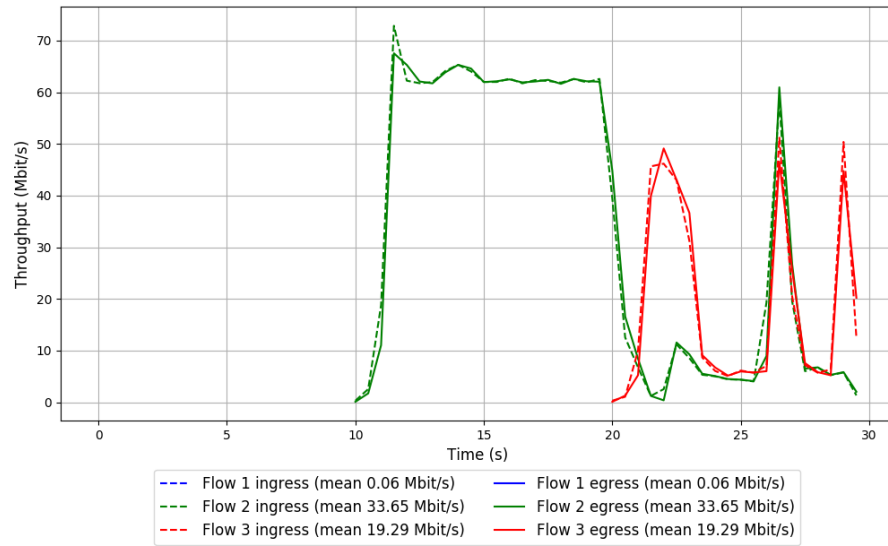
-- Flow 3:

Average throughput: 19.29 Mbit/s

95th percentile per-packet one-way delay: 86.853 ms

Loss rate: 0.00%

Run 9: Report of QUIC Cubic — Data Link

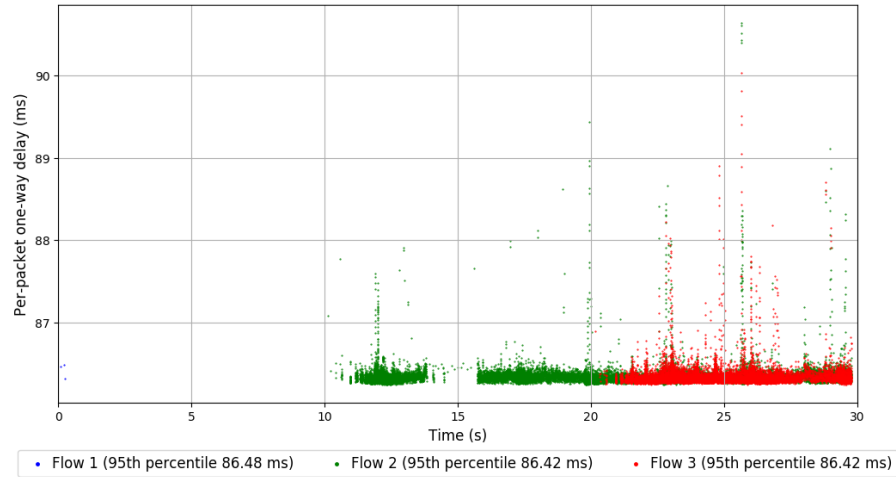
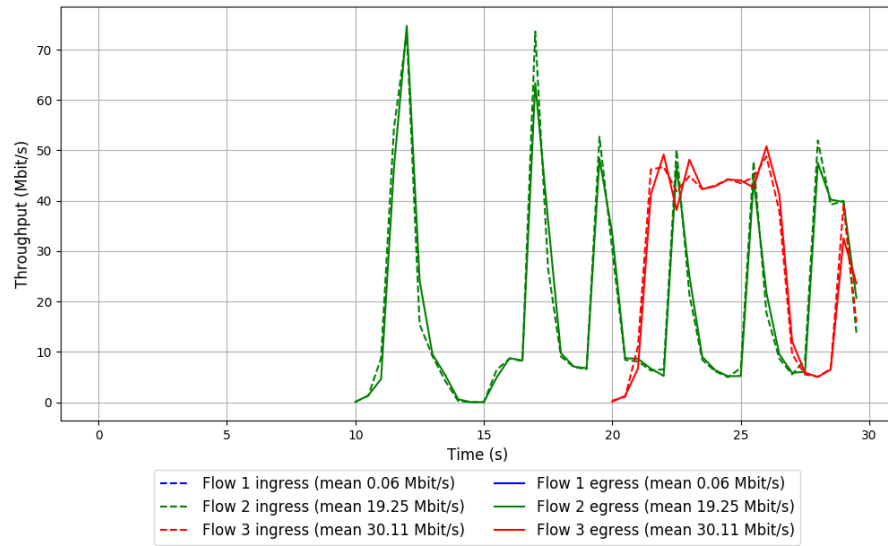


```
Run 10: Statistics of QUIC Cubic

Start at: 2017-08-12 04:57:17
End at: 2017-08-12 04:57:47

# Below is generated by plot.py at 2017-08-12 06:39:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 22.48 Mbit/s
95th percentile per-packet one-way delay: 86.417 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 86.484 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 19.25 Mbit/s
95th percentile per-packet one-way delay: 86.418 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 30.11 Mbit/s
95th percentile per-packet one-way delay: 86.416 ms
Loss rate: 0.00%
```

Run 10: Report of QUIC Cubic — Data Link



Run 1: Statistics of Saturator

Start at: 2017-08-12 03:07:12

End at: 2017-08-12 03:07:42

Below is generated by plot.py at 2017-08-12 06:39:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 10.07 Mbit/s

95th percentile per-packet one-way delay: 86.873 ms

Loss rate: 2.36%

-- Flow 1:

Average throughput: 13.46 Mbit/s

95th percentile per-packet one-way delay: 86.778 ms

Loss rate: 1.55%

-- Flow 2:

Average throughput: 11.46 Mbit/s

95th percentile per-packet one-way delay: 87.111 ms

Loss rate: 11.76%

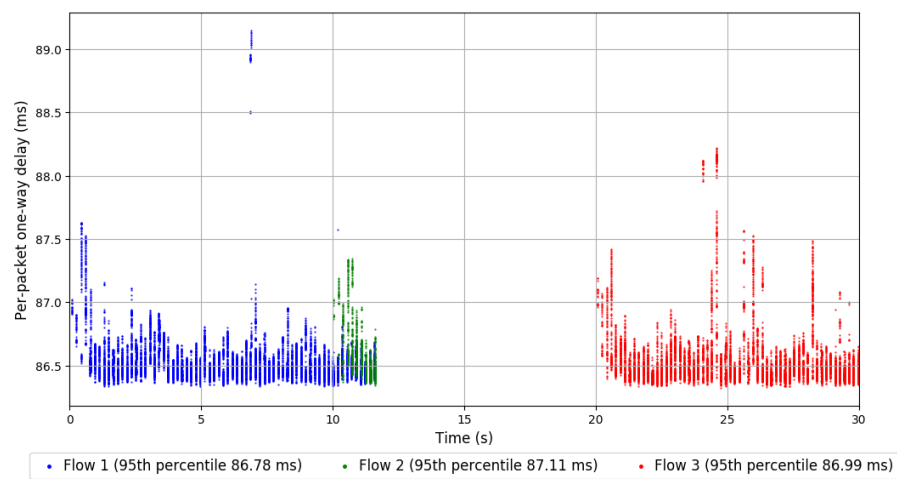
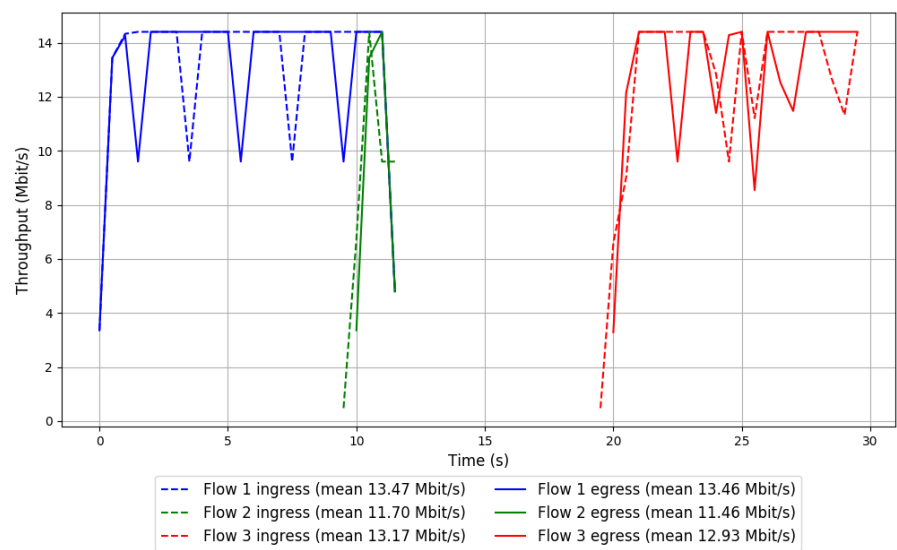
-- Flow 3:

Average throughput: 12.93 Mbit/s

95th percentile per-packet one-way delay: 86.986 ms

Loss rate: 1.87%

Run 1: Report of Saturator — Data Link



Run 2: Statistics of Saturator

Start at: 2017-08-12 03:19:57

End at: 2017-08-12 03:20:27

Below is generated by plot.py at 2017-08-12 06:39:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 21.38 Mbit/s

95th percentile per-packet one-way delay: 87.263 ms

Loss rate: 8.72%

-- Flow 1:

Average throughput: 10.27 Mbit/s

95th percentile per-packet one-way delay: 87.340 ms

Loss rate: 13.55%

-- Flow 2:

Average throughput: 12.78 Mbit/s

95th percentile per-packet one-way delay: 86.995 ms

Loss rate: 4.10%

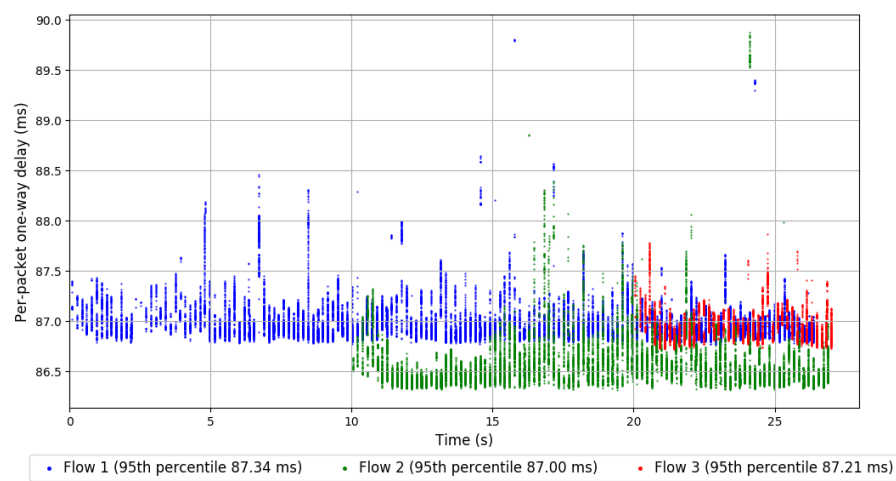
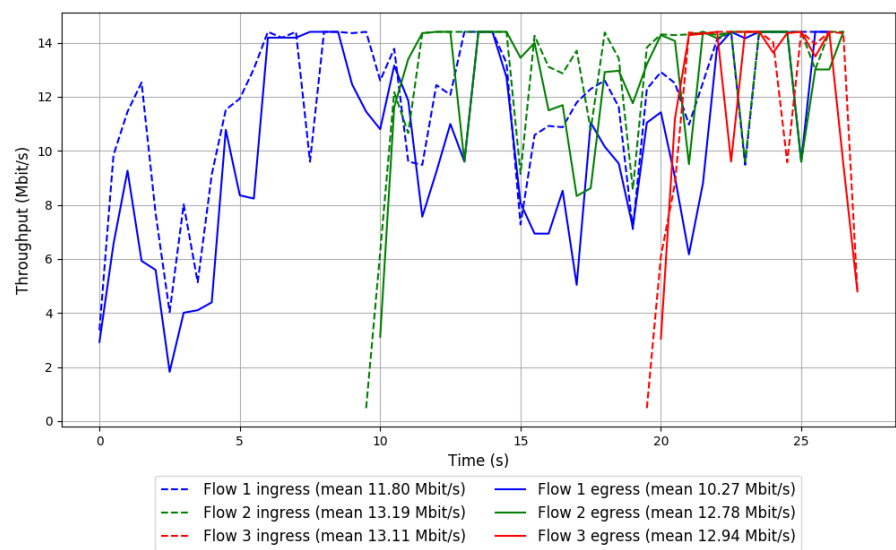
-- Flow 3:

Average throughput: 12.94 Mbit/s

95th percentile per-packet one-way delay: 87.206 ms

Loss rate: 3.71%

Run 2: Report of Saturator — Data Link

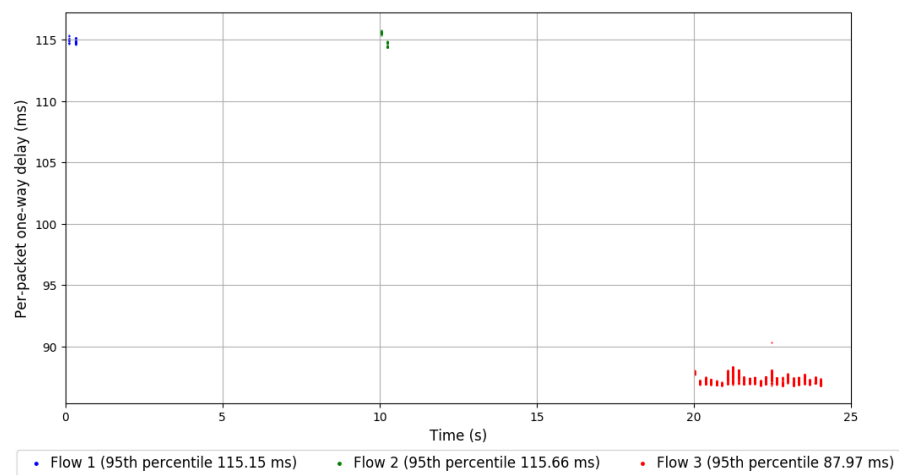
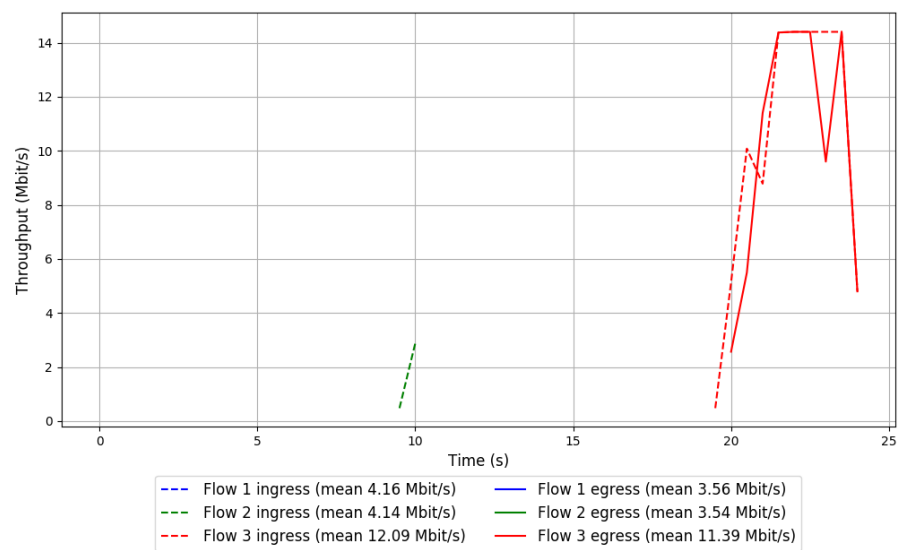


Run 3: Statistics of Saturator

Start at: 2017-08-12 03:33:29

End at: 2017-08-12 03:33:59

Run 3: Report of Saturator — Data Link



Run 4: Statistics of Saturator

Start at: 2017-08-12 03:46:47

End at: 2017-08-12 03:47:17

Below is generated by plot.py at 2017-08-12 06:39:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 13.32 Mbit/s

95th percentile per-packet one-way delay: 87.707 ms

Loss rate: 2.47%

-- Flow 1:

Average throughput: 13.21 Mbit/s

95th percentile per-packet one-way delay: 87.713 ms

Loss rate: 1.54%

-- Flow 2:

Average throughput: 4.10 Mbit/s

95th percentile per-packet one-way delay: 87.631 ms

Loss rate: 57.14%

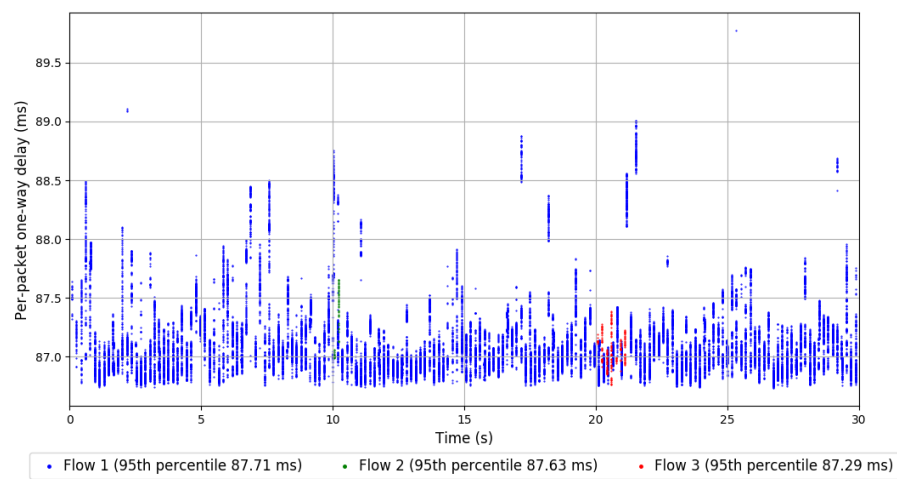
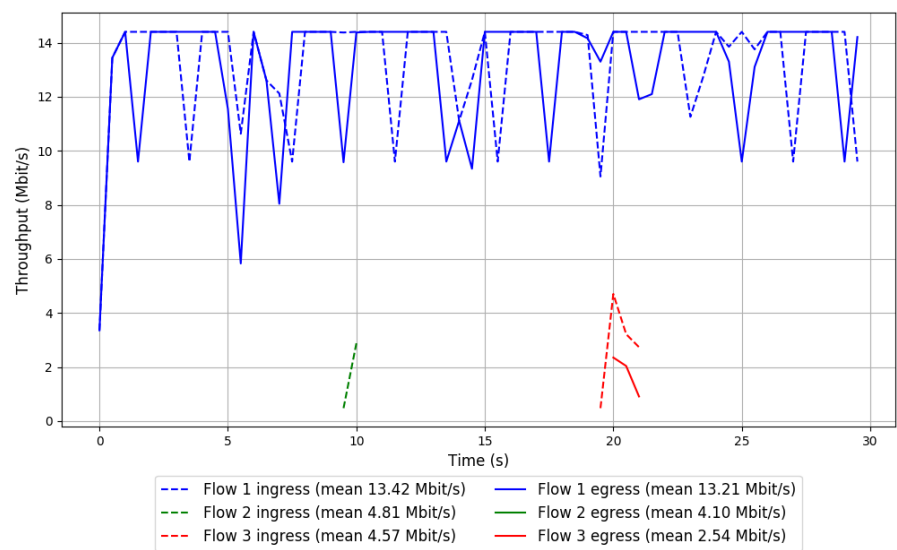
-- Flow 3:

Average throughput: 2.54 Mbit/s

95th percentile per-packet one-way delay: 87.293 ms

Loss rate: 52.37%

Run 4: Report of Saturator — Data Link



Run 5: Statistics of Saturator

Start at: 2017-08-12 03:58:45

End at: 2017-08-12 03:59:15

Below is generated by plot.py at 2017-08-12 06:40:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 21.96 Mbit/s

95th percentile per-packet one-way delay: 87.932 ms

Loss rate: 1.44%

-- Flow 1:

Average throughput: 12.90 Mbit/s

95th percentile per-packet one-way delay: 87.963 ms

Loss rate: 2.35%

-- Flow 2:

Average throughput: 13.59 Mbit/s

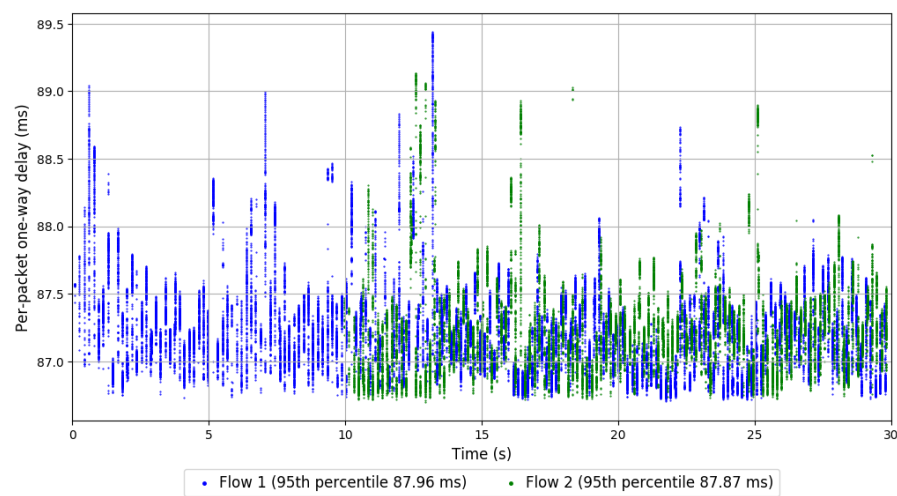
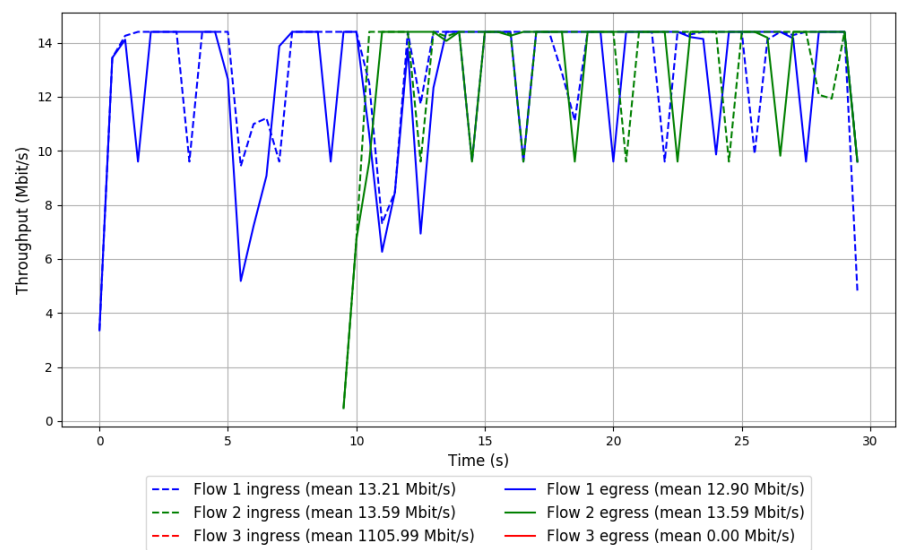
95th percentile per-packet one-way delay: 87.868 ms

Loss rate: 0.04%

-- Flow 3:

Average throughput: 0.00 Mbit/s

Run 5: Report of Saturator — Data Link



Run 6: Statistics of Saturator

Start at: 2017-08-12 04:11:06

End at: 2017-08-12 04:11:36

Below is generated by plot.py at 2017-08-12 06:40:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 14.55 Mbit/s

95th percentile per-packet one-way delay: 87.479 ms

Loss rate: 3.82%

-- Flow 1:

Average throughput: 13.52 Mbit/s

95th percentile per-packet one-way delay: 87.308 ms

Loss rate: 1.08%

-- Flow 2:

Average throughput: 11.35 Mbit/s

95th percentile per-packet one-way delay: 87.484 ms

Loss rate: 9.19%

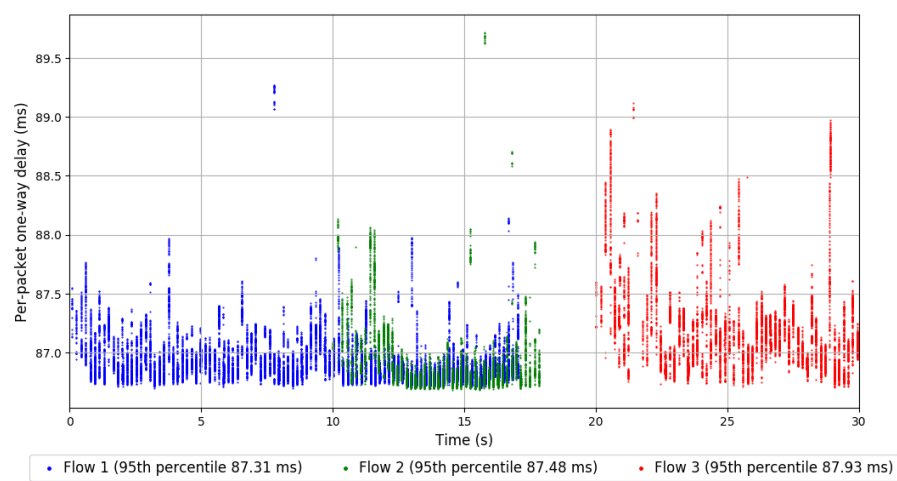
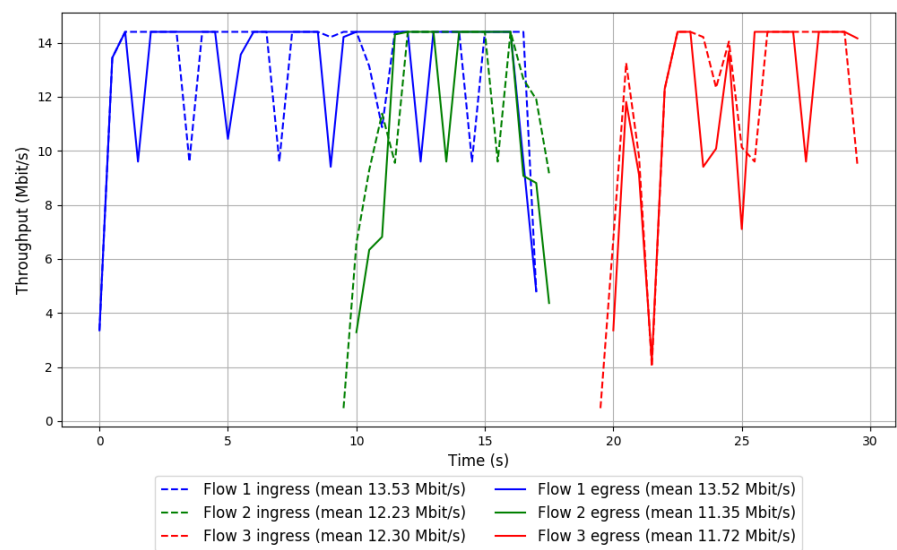
-- Flow 3:

Average throughput: 11.72 Mbit/s

95th percentile per-packet one-way delay: 87.928 ms

Loss rate: 4.72%

Run 6: Report of Saturator — Data Link

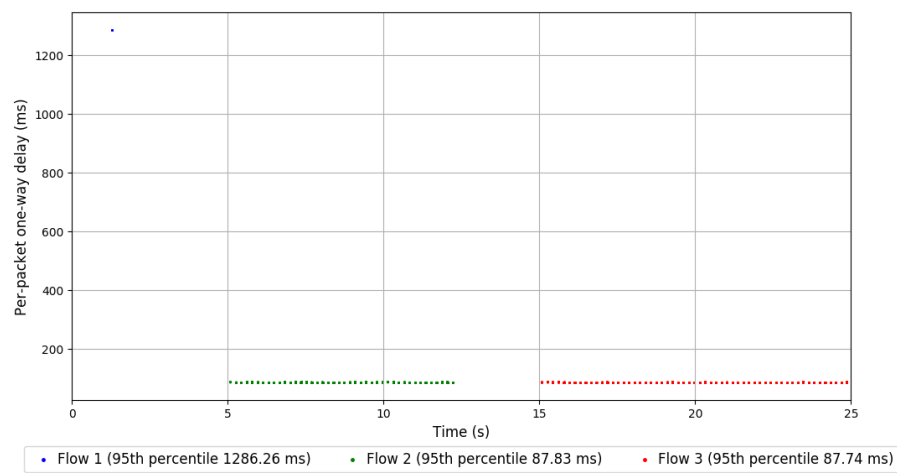
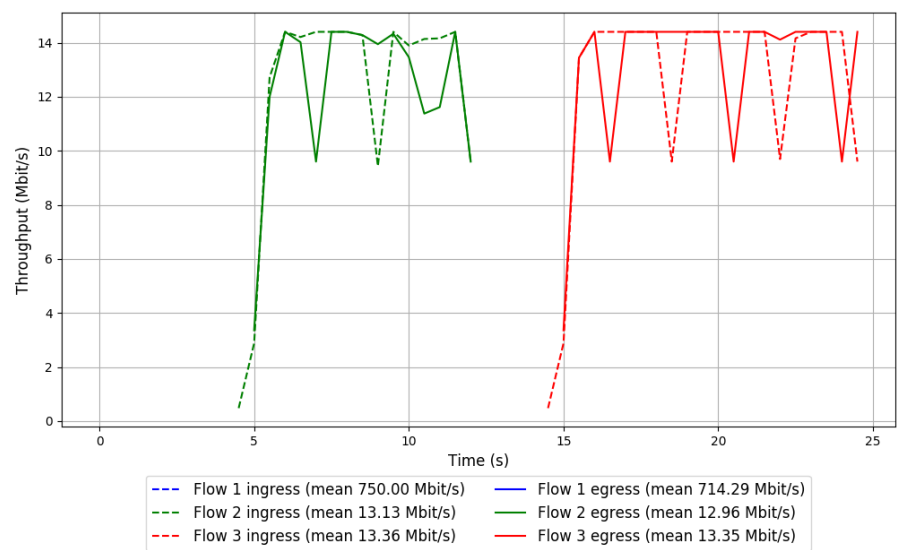


Run 7: Statistics of Saturator

Start at: 2017-08-12 04:23:37

End at: 2017-08-12 04:24:07

Run 7: Report of Saturator — Data Link



Run 8: Statistics of Saturator

Start at: 2017-08-12 04:36:19

End at: 2017-08-12 04:36:49

Below is generated by plot.py at 2017-08-12 06:40:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 21.42 Mbit/s

95th percentile per-packet one-way delay: 87.773 ms

Loss rate: 5.75%

-- Flow 1:

Average throughput: 11.84 Mbit/s

95th percentile per-packet one-way delay: 87.711 ms

Loss rate: 6.46%

-- Flow 2:

Average throughput: 11.89 Mbit/s

95th percentile per-packet one-way delay: 87.939 ms

Loss rate: 4.53%

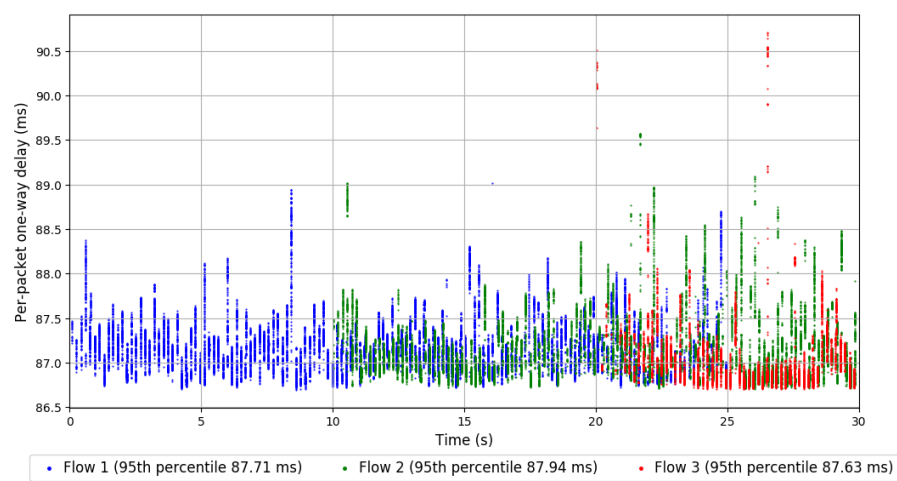
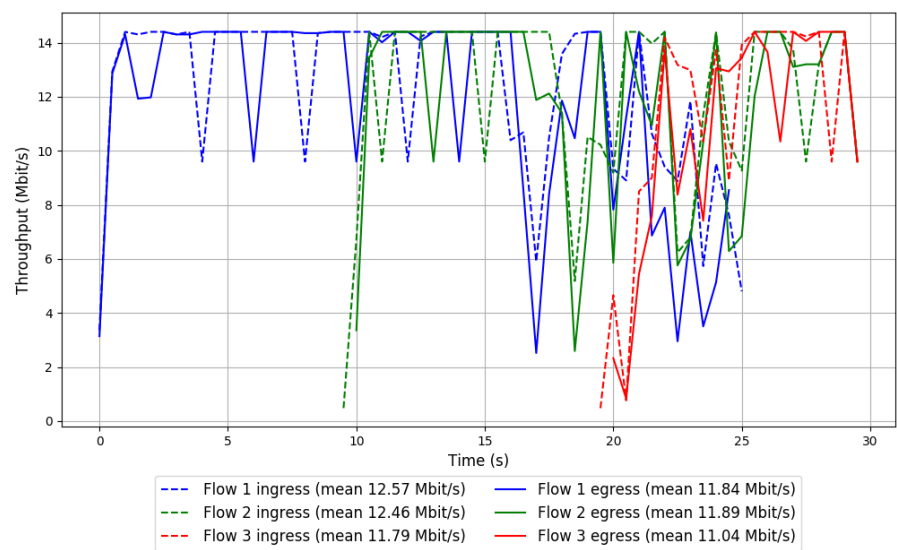
-- Flow 3:

Average throughput: 11.04 Mbit/s

95th percentile per-packet one-way delay: 87.630 ms

Loss rate: 6.45%

Run 8: Report of Saturator — Data Link



Run 9: Statistics of Saturator

Start at: 2017-08-12 04:48:56

End at: 2017-08-12 04:49:26

Below is generated by plot.py at 2017-08-12 06:40:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 22.38 Mbit/s

95th percentile per-packet one-way delay: 87.472 ms

Loss rate: 2.18%

-- Flow 1:

Average throughput: 13.39 Mbit/s

95th percentile per-packet one-way delay: 87.197 ms

Loss rate: 0.84%

-- Flow 2:

Average throughput: 13.15 Mbit/s

95th percentile per-packet one-way delay: 87.672 ms

Loss rate: 1.47%

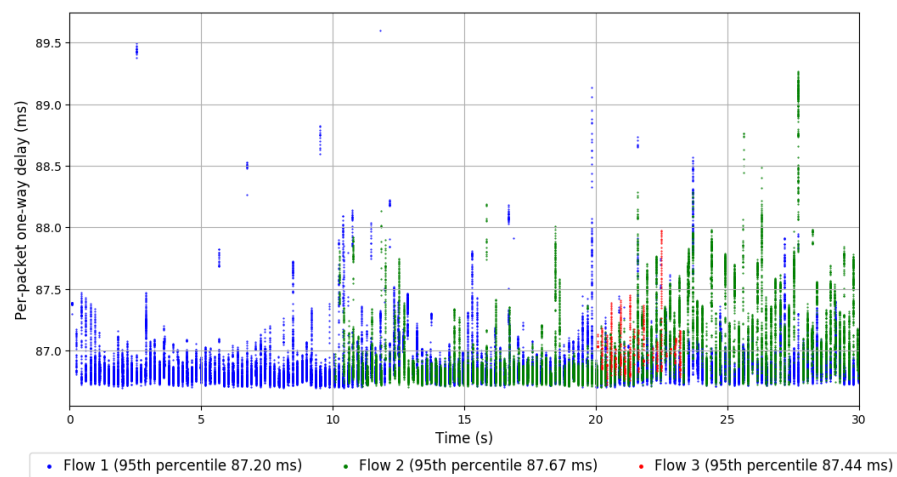
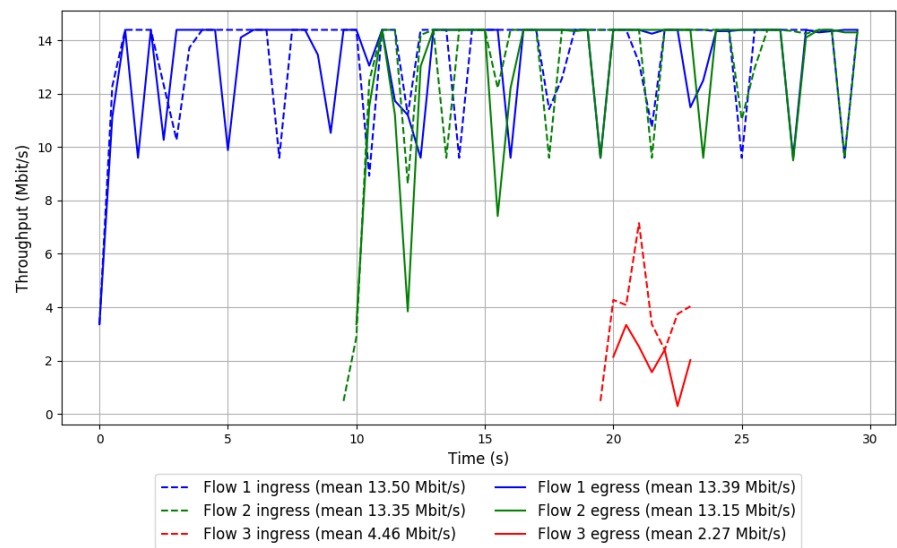
-- Flow 3:

Average throughput: 2.27 Mbit/s

95th percentile per-packet one-way delay: 87.445 ms

Loss rate: 51.71%

Run 9: Report of Saturator — Data Link



Run 10: Statistics of Saturator

Start at: 2017-08-12 05:01:24

End at: 2017-08-12 05:01:54

Below is generated by plot.py at 2017-08-12 06:40:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 18.37 Mbit/s

95th percentile per-packet one-way delay: 87.628 ms

Loss rate: 1.18%

-- Flow 1:

Average throughput: 13.21 Mbit/s

95th percentile per-packet one-way delay: 87.546 ms

Loss rate: 0.80%

-- Flow 2:

Average throughput: 754.72 Mbit/s

95th percentile per-packet one-way delay: 2602.969 ms

Loss rate: 0.00%

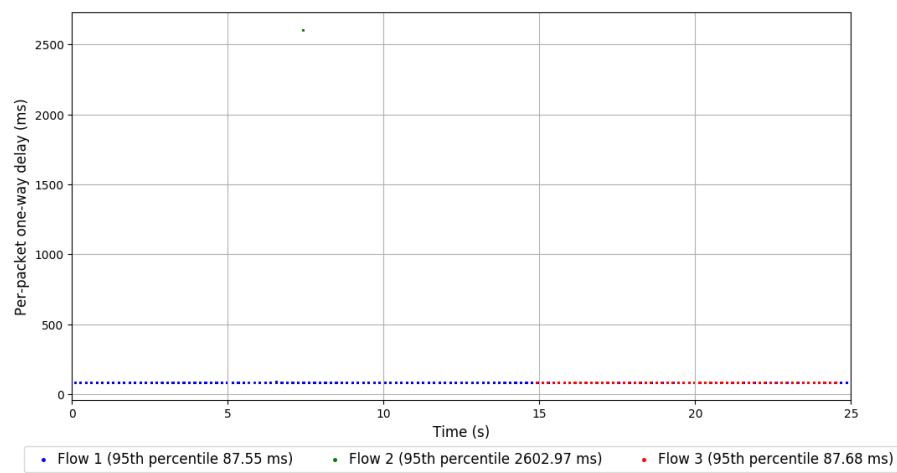
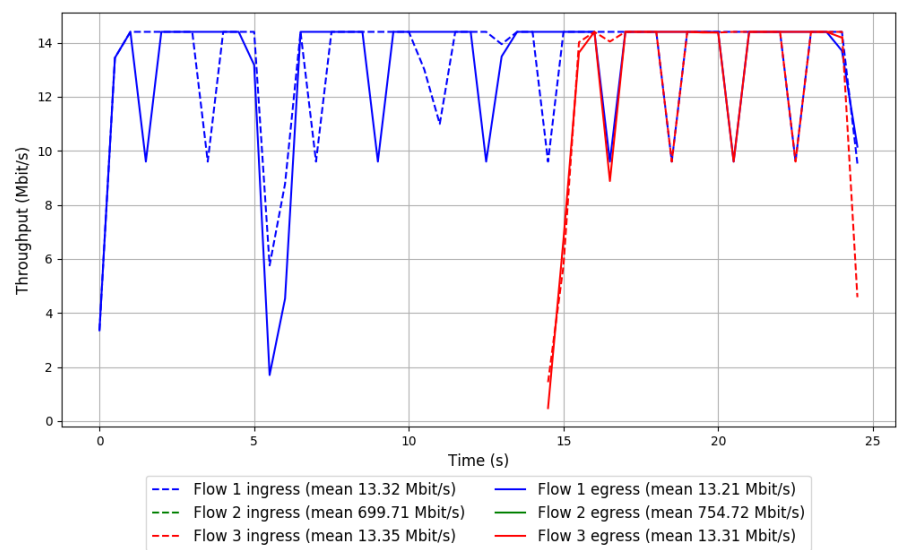
-- Flow 3:

Average throughput: 13.31 Mbit/s

95th percentile per-packet one-way delay: 87.683 ms

Loss rate: 2.14%

Run 10: Report of Saturator — Data Link

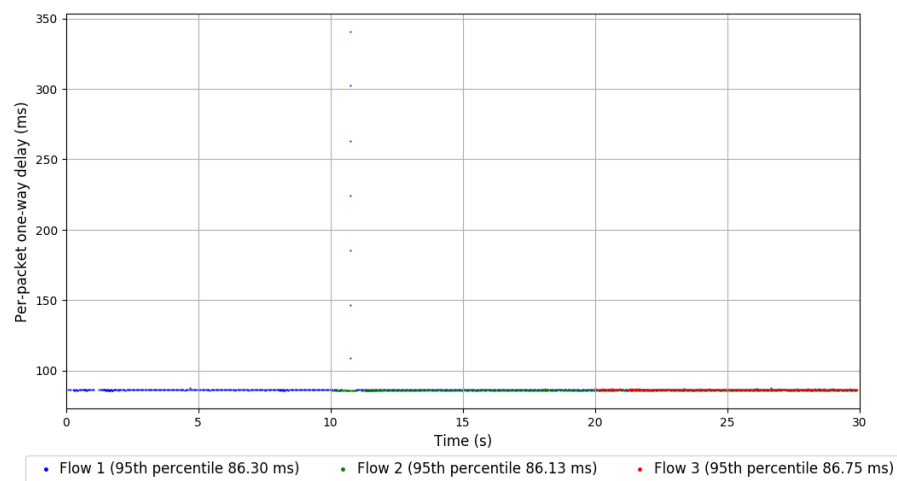
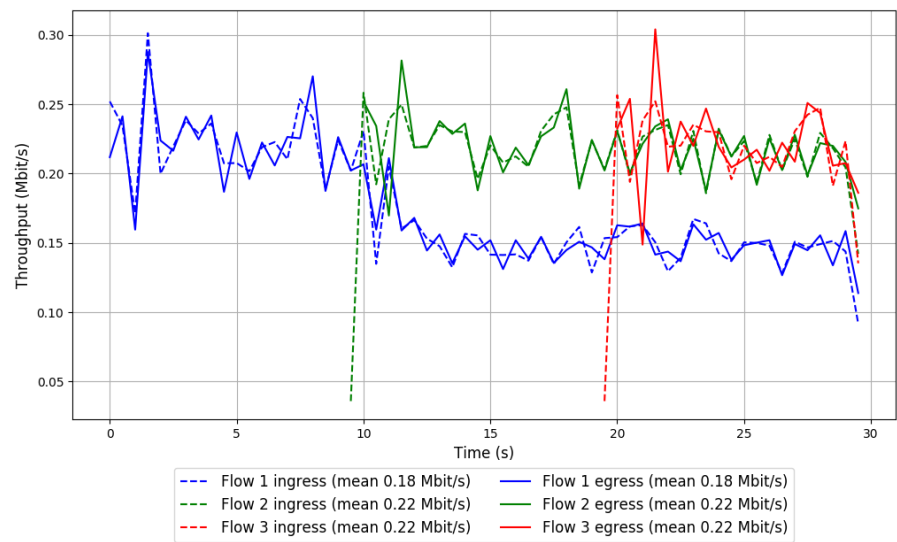


```
Run 1: Statistics of SCReAM

Start at: 2017-08-12 03:05:45
End at: 2017-08-12 03:06:15

# Below is generated by plot.py at 2017-08-12 06:40:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.40 Mbit/s
95th percentile per-packet one-way delay: 86.544 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 86.304 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.131 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.745 ms
Loss rate: 0.00%
```

Run 1: Report of SCRaM — Data Link

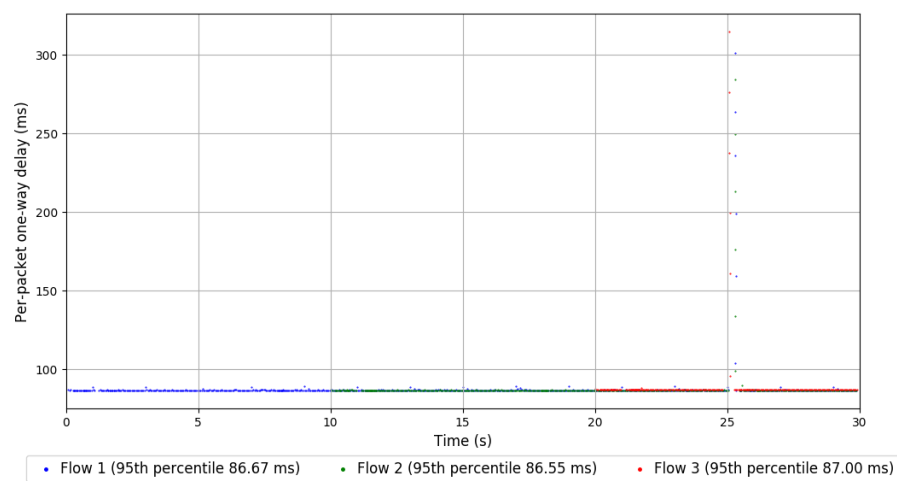
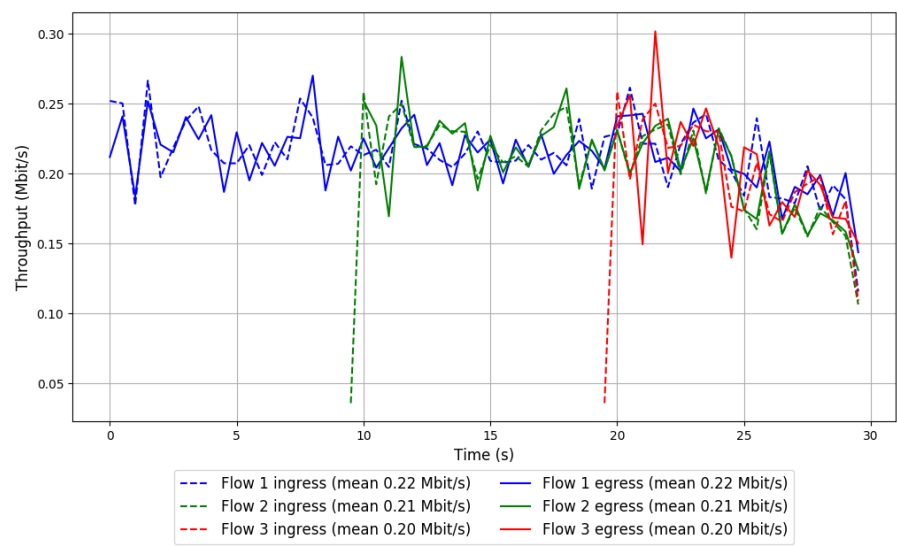


```
Run 2: Statistics of SReAM

Start at: 2017-08-12 03:18:29
End at: 2017-08-12 03:18:59

# Below is generated by plot.py at 2017-08-12 06:40:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.42 Mbit/s
95th percentile per-packet one-way delay: 86.949 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.671 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 86.553 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.20 Mbit/s
95th percentile per-packet one-way delay: 86.996 ms
Loss rate: 0.00%
```

Run 2: Report of SReAM — Data Link

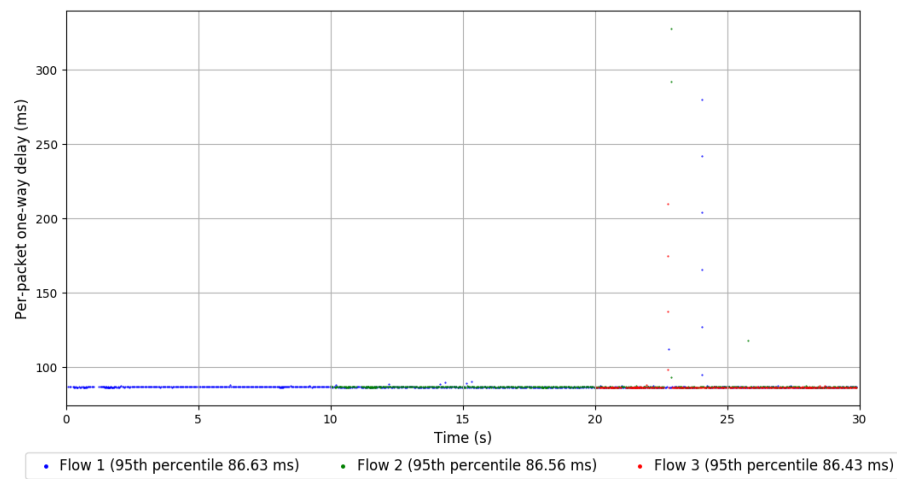
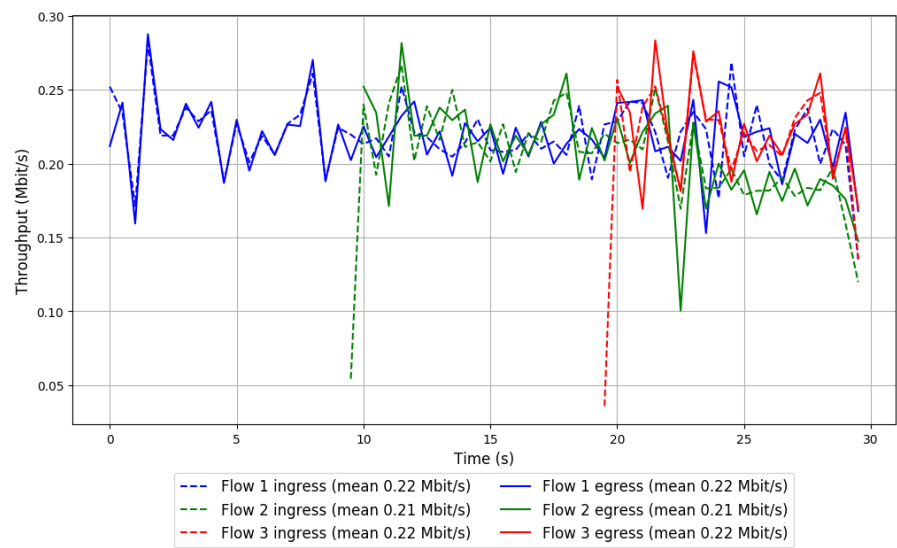


```
Run 3: Statistics of SCReAM

Start at: 2017-08-12 03:32:01
End at: 2017-08-12 03:32:31

# Below is generated by plot.py at 2017-08-12 06:40:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 86.564 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.634 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 86.559 ms
Loss rate: 0.83%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.429 ms
Loss rate: 0.00%
```


Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2017-08-12 03:45:19

End at: 2017-08-12 03:45:49

Below is generated by plot.py at 2017-08-12 06:40:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.41 Mbit/s

95th percentile per-packet one-way delay: 114.380 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 0.19 Mbit/s

95th percentile per-packet one-way delay: 114.430 ms

Loss rate: 0.27%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.994 ms

Loss rate: 0.00%

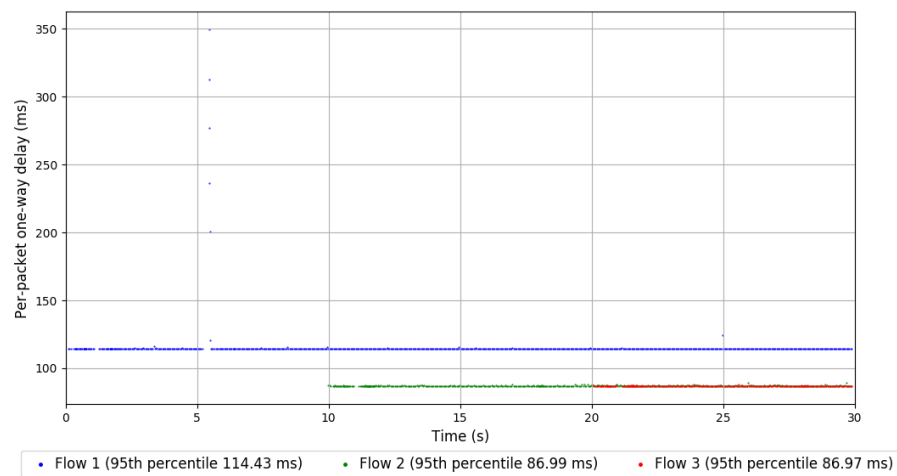
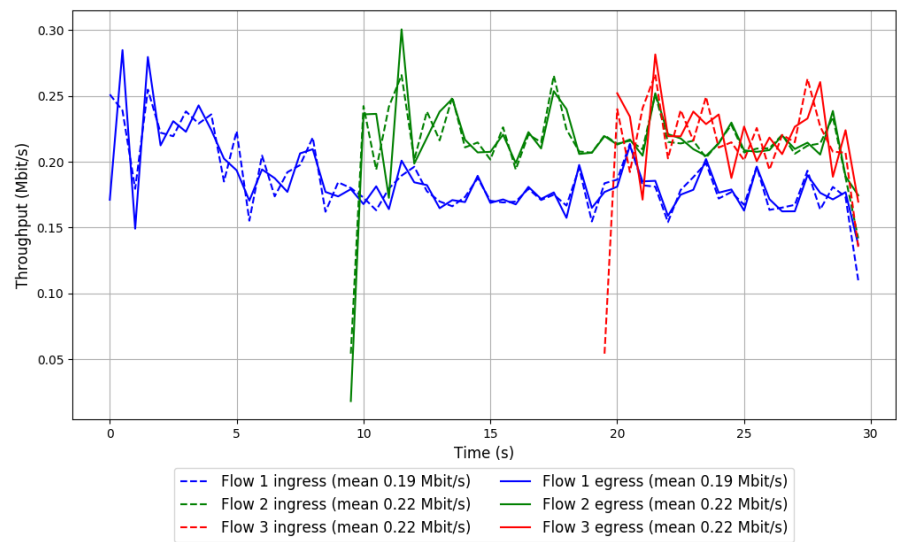
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.966 ms

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SReAM

Start at: 2017-08-12 03:57:18

End at: 2017-08-12 03:57:48

Below is generated by plot.py at 2017-08-12 06:40:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 86.990 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 87.014 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.157 ms

Loss rate: 0.00%

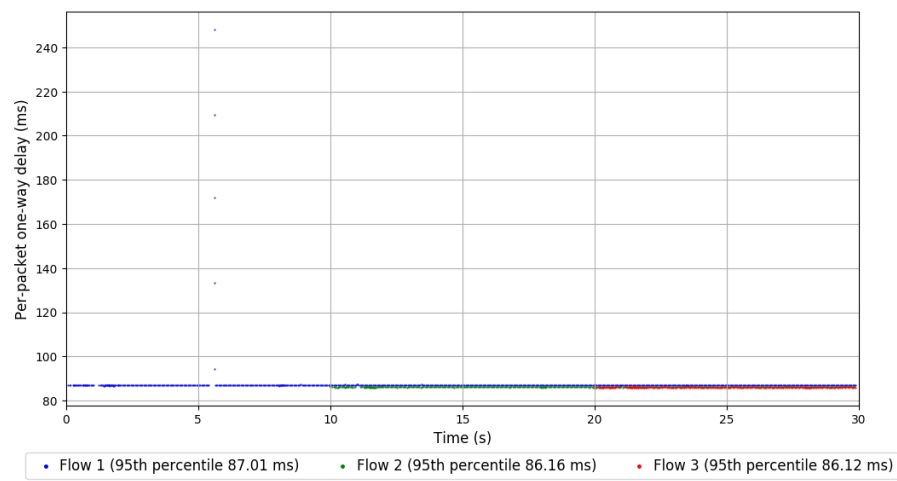
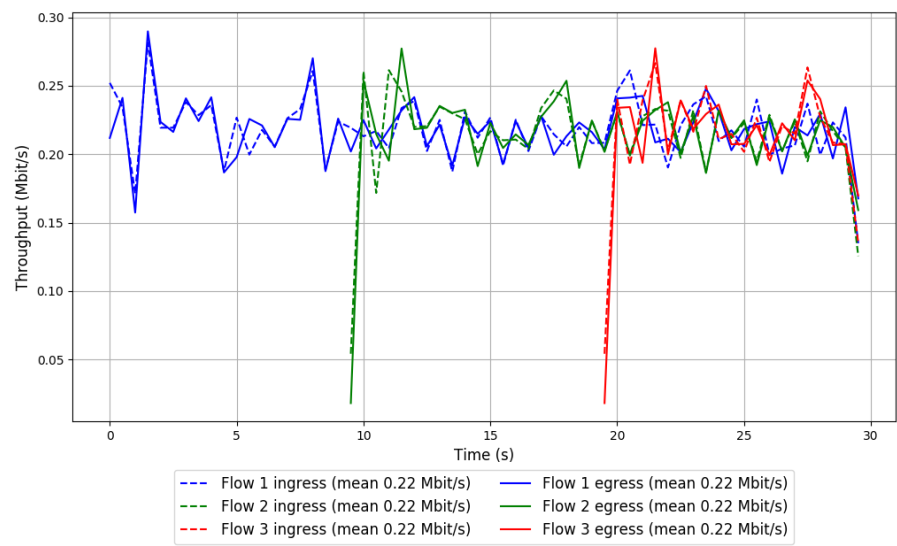
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.123 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link

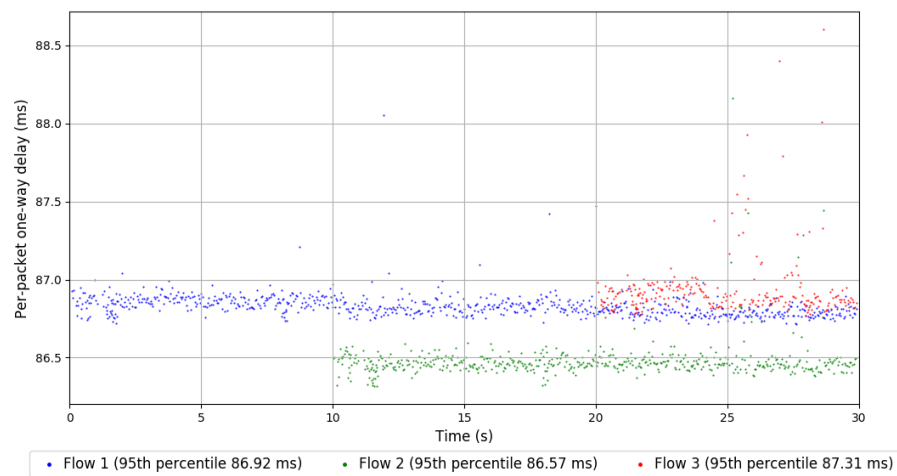
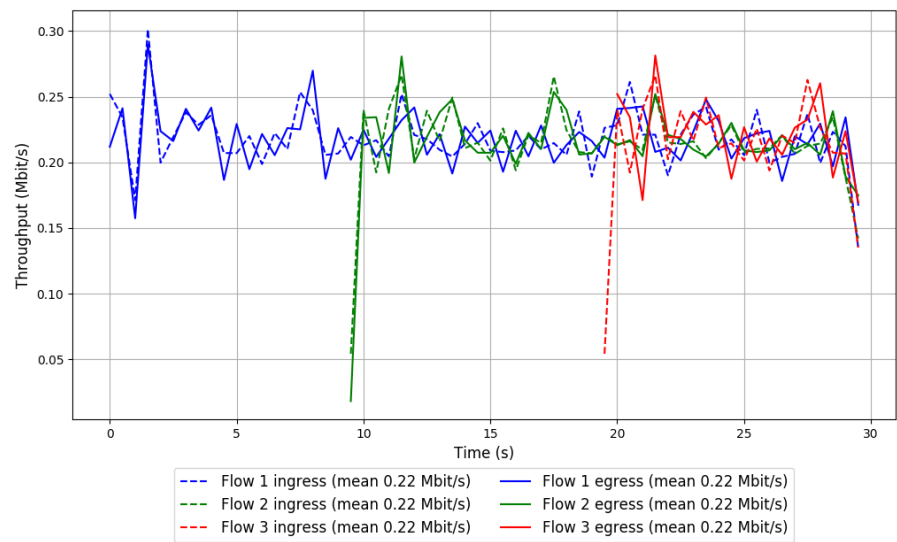


```
Run 6: Statistics of SReAM

Start at: 2017-08-12 04:09:38
End at: 2017-08-12 04:10:08

# Below is generated by plot.py at 2017-08-12 06:40:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 86.958 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.918 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.568 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 87.309 ms
Loss rate: 0.00%
```

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SReAM

Start at: 2017-08-12 04:22:09

End at: 2017-08-12 04:22:39

Below is generated by plot.py at 2017-08-12 06:40:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 87.008 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 87.029 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.461 ms

Loss rate: 0.00%

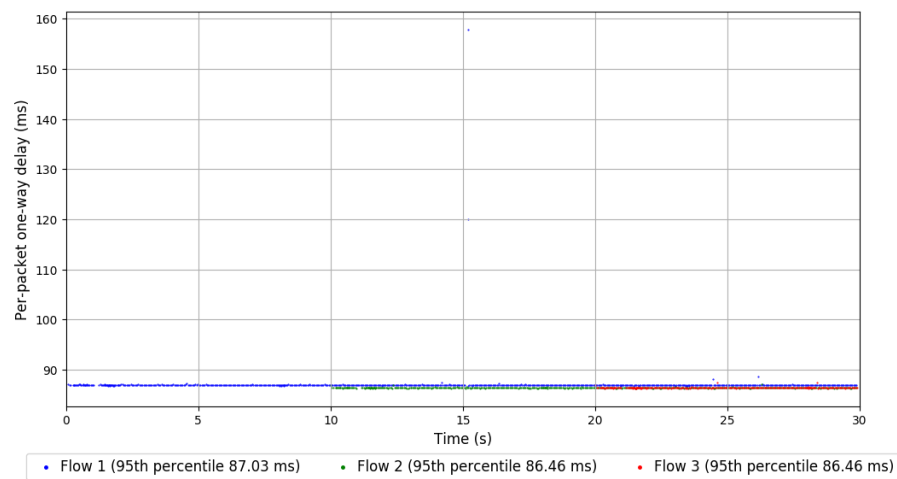
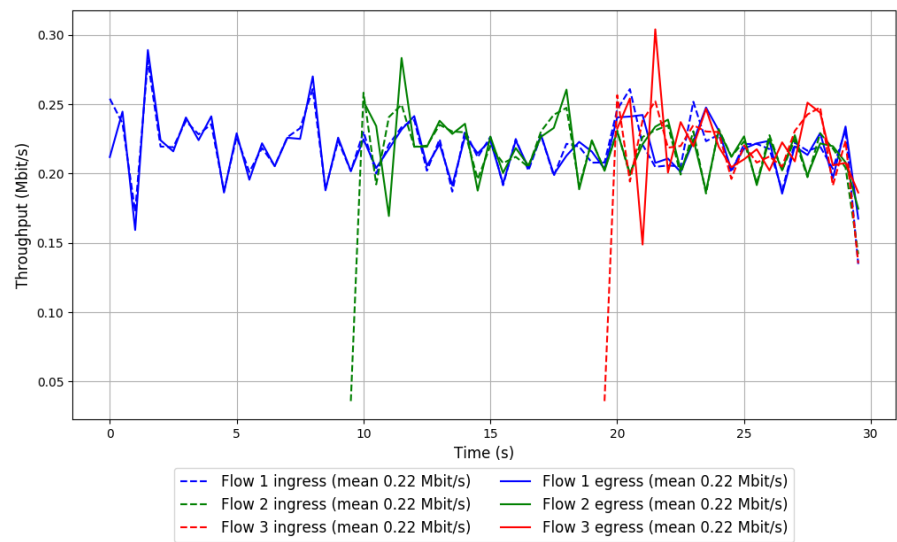
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.463 ms

Loss rate: 0.00%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SReAM

Start at: 2017-08-12 04:34:51

End at: 2017-08-12 04:35:21

Below is generated by plot.py at 2017-08-12 06:40:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 86.967 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.987 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.505 ms

Loss rate: 0.00%

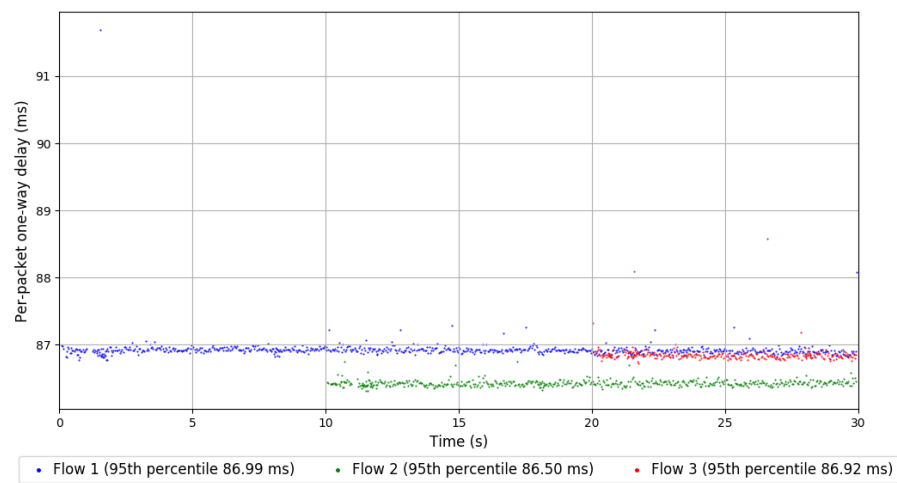
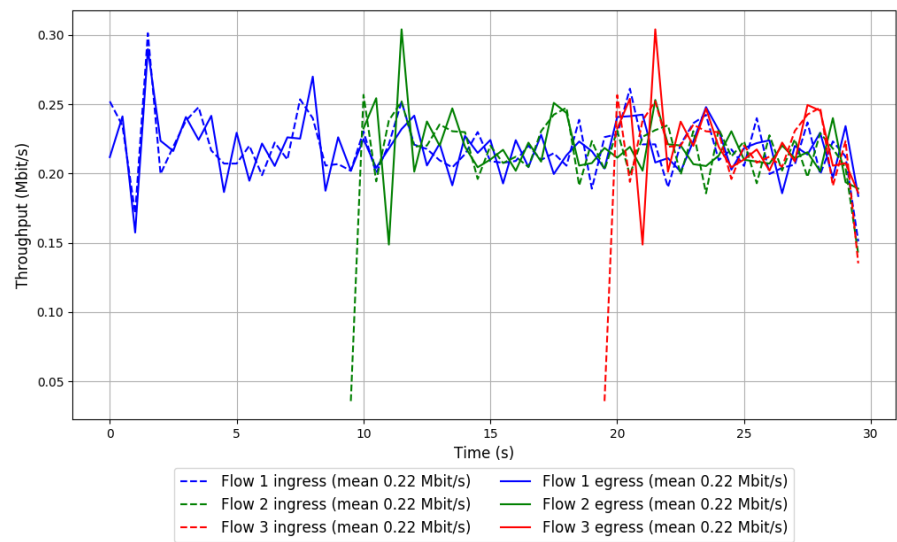
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.916 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SReAM

Start at: 2017-08-12 04:47:28

End at: 2017-08-12 04:47:58

Below is generated by plot.py at 2017-08-12 06:40:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 86.979 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 87.002 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.546 ms

Loss rate: 0.00%

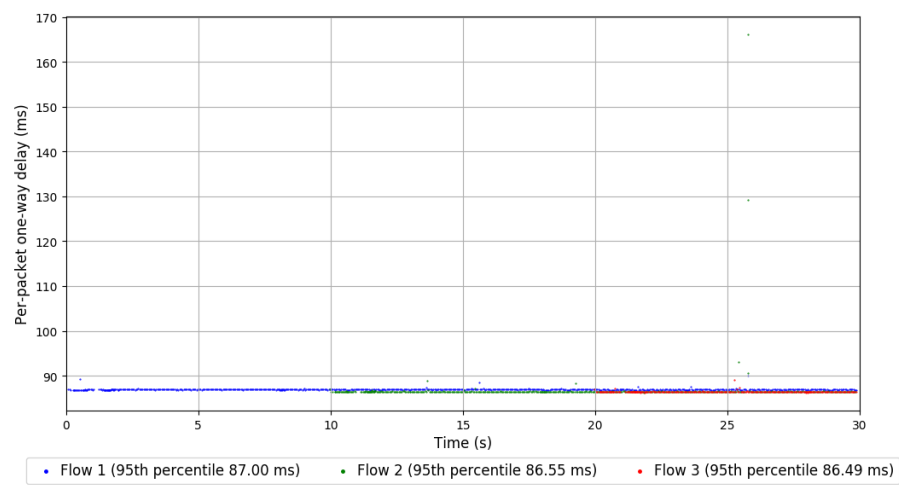
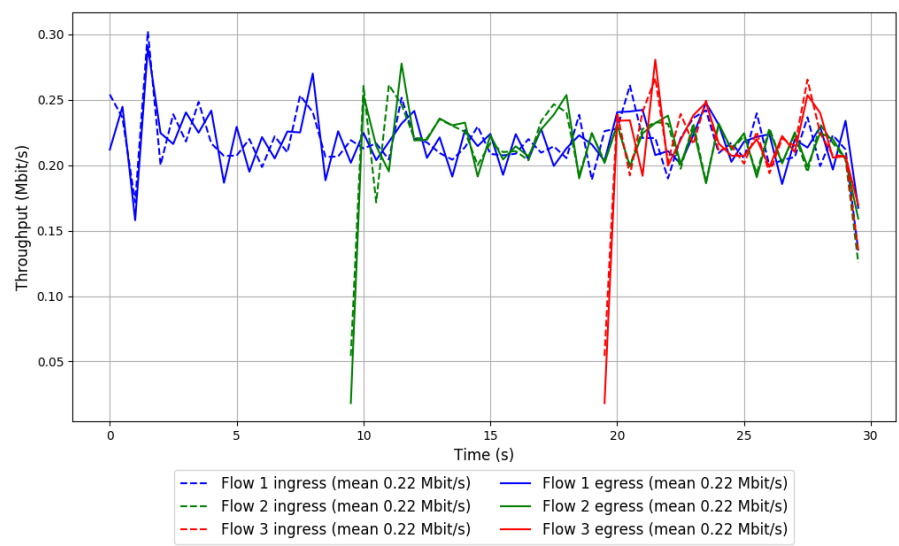
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.493 ms

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2017-08-12 04:59:56

End at: 2017-08-12 05:00:26

Below is generated by plot.py at 2017-08-12 06:40:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 86.990 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.558 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 87.022 ms

Loss rate: 0.00%

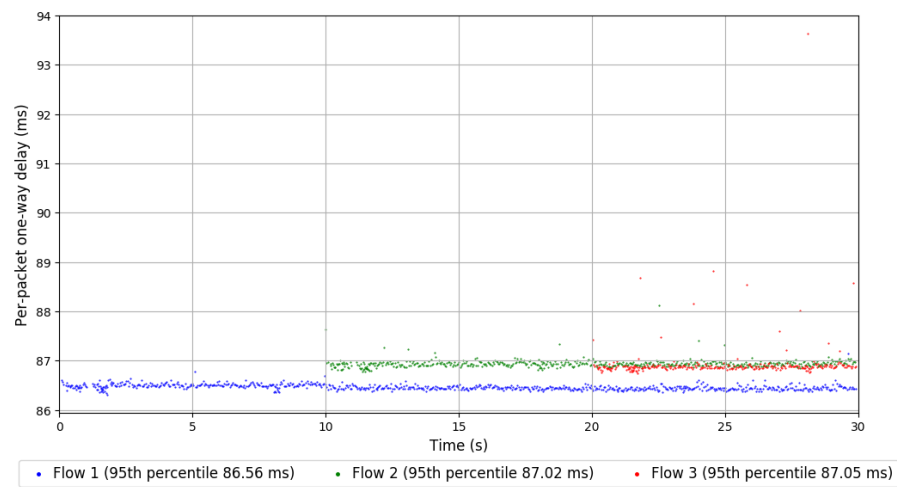
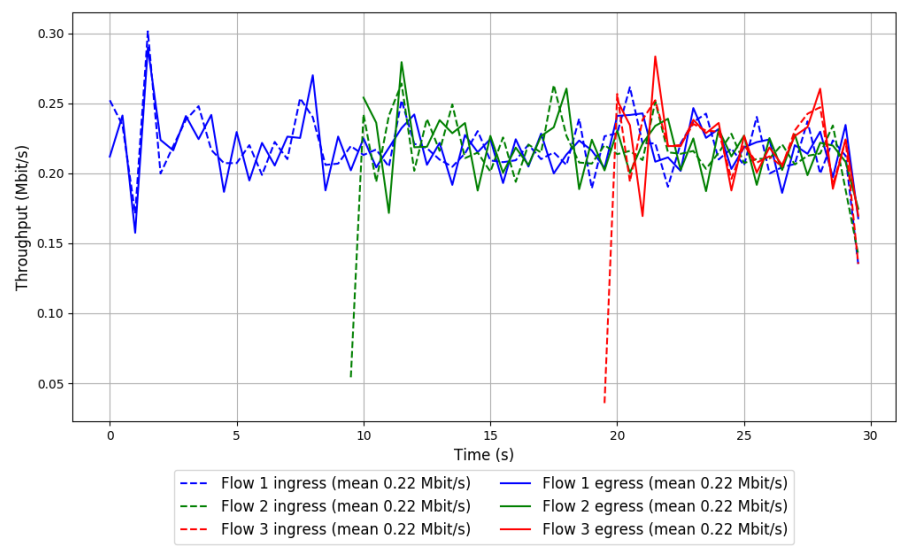
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 87.046 ms

Loss rate: 0.00%

Run 10: Report of SReAM — Data Link

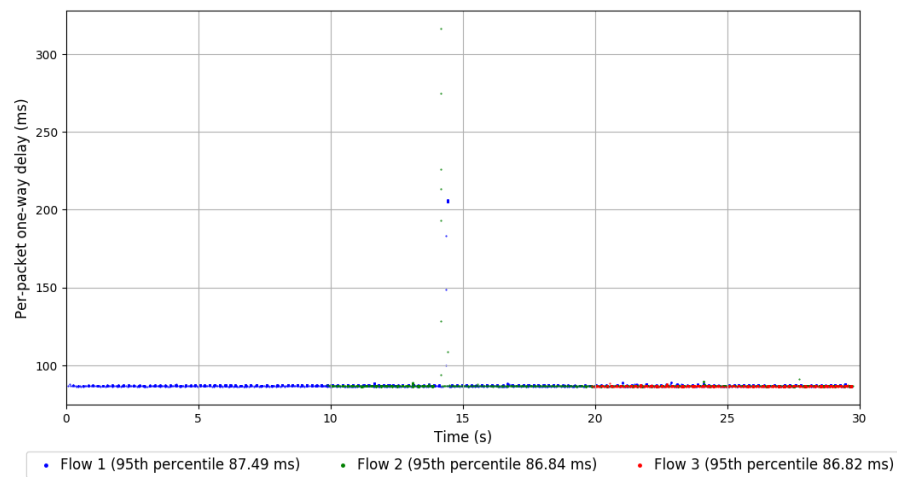
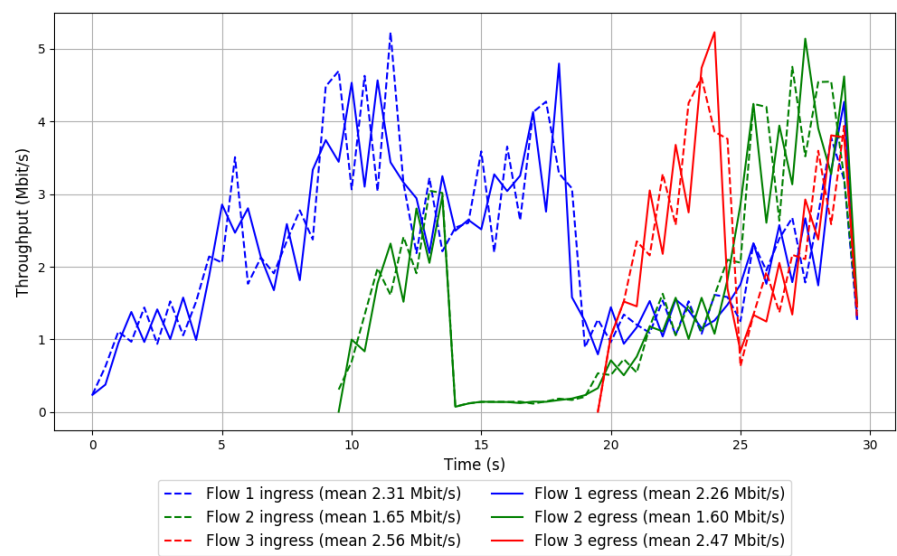


```
Run 1: Statistics of Sprout

Start at: 2017-08-12 03:09:10
End at: 2017-08-12 03:09:40

# Below is generated by plot.py at 2017-08-12 06:40:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.15 Mbit/s
95th percentile per-packet one-way delay: 87.316 ms
Loss rate: 2.61%
-- Flow 1:
Average throughput: 2.26 Mbit/s
95th percentile per-packet one-way delay: 87.491 ms
Loss rate: 2.22%
-- Flow 2:
Average throughput: 1.60 Mbit/s
95th percentile per-packet one-way delay: 86.841 ms
Loss rate: 2.61%
-- Flow 3:
Average throughput: 2.47 Mbit/s
95th percentile per-packet one-way delay: 86.824 ms
Loss rate: 3.67%
```


Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2017-08-12 03:22:01

End at: 2017-08-12 03:22:31

Below is generated by plot.py at 2017-08-12 06:40:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 7.37 Mbit/s

95th percentile per-packet one-way delay: 86.929 ms

Loss rate: 0.47%

-- Flow 1:

Average throughput: 4.14 Mbit/s

95th percentile per-packet one-way delay: 86.965 ms

Loss rate: 0.33%

-- Flow 2:

Average throughput: 2.98 Mbit/s

95th percentile per-packet one-way delay: 86.852 ms

Loss rate: 1.07%

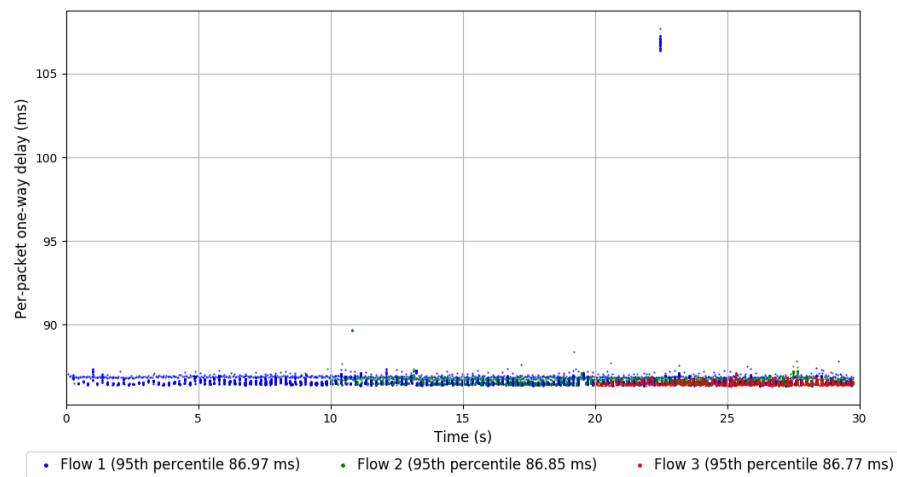
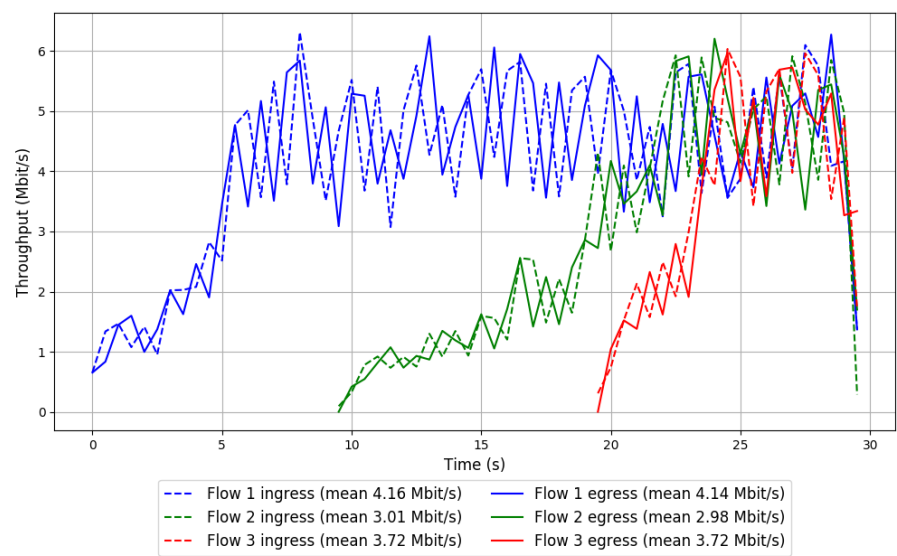
-- Flow 3:

Average throughput: 3.72 Mbit/s

95th percentile per-packet one-way delay: 86.772 ms

Loss rate: 0.00%

Run 2: Report of Sprout — Data Link

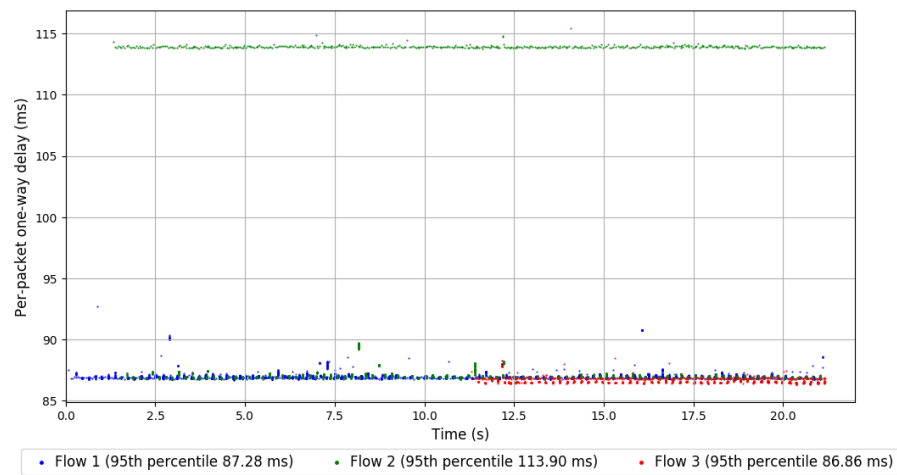
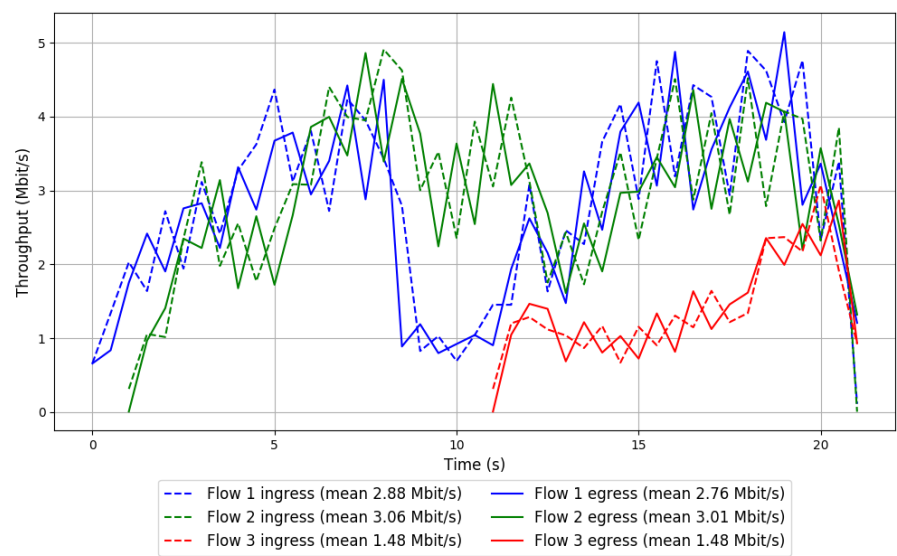


Run 3: Statistics of Sprout

Start at: 2017-08-12 03:35:20

End at: 2017-08-12 03:35:50

Run 3: Report of Sprout — Data Link

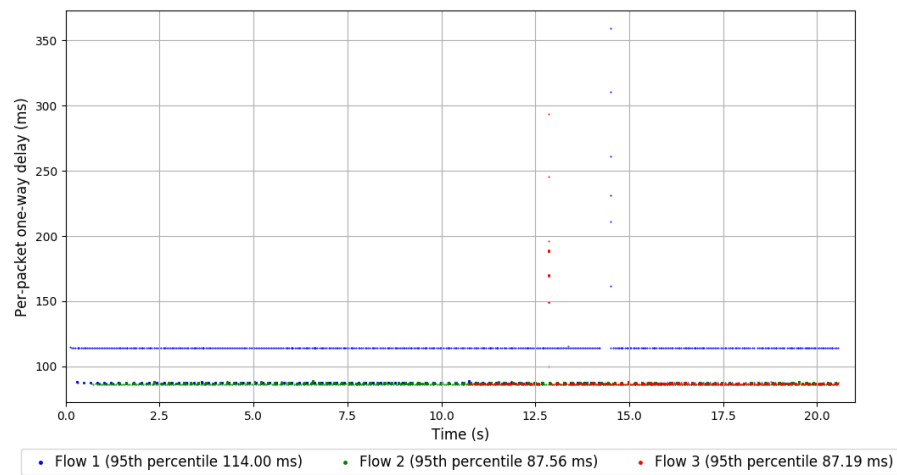
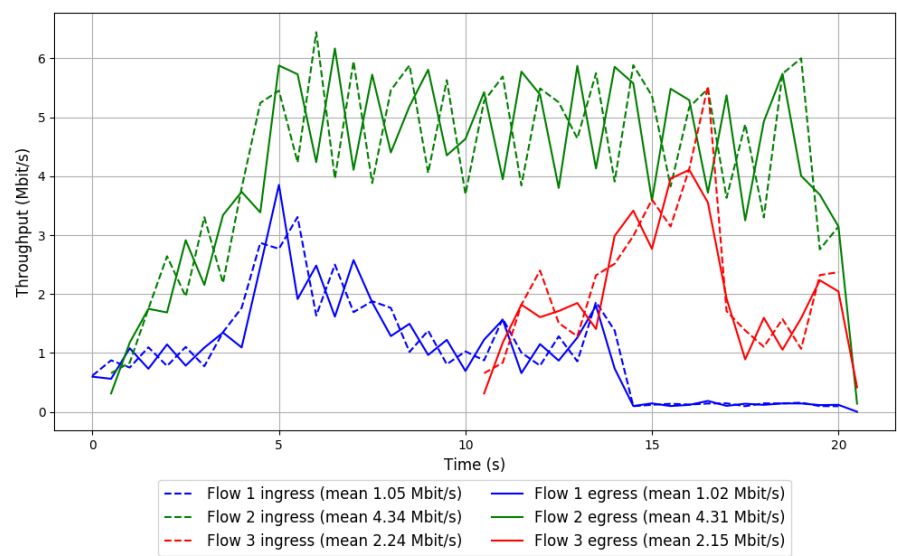


Run 4: Statistics of Sprout

Start at: 2017-08-12 03:48:32

End at: 2017-08-12 03:49:02

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2017-08-12 04:00:18

End at: 2017-08-12 04:00:48

Below is generated by plot.py at 2017-08-12 06:40:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 5.01 Mbit/s

95th percentile per-packet one-way delay: 113.785 ms

Loss rate: 1.20%

-- Flow 1:

Average throughput: 1.14 Mbit/s

95th percentile per-packet one-way delay: 113.898 ms

Loss rate: 2.30%

-- Flow 2:

Average throughput: 3.97 Mbit/s

95th percentile per-packet one-way delay: 87.367 ms

Loss rate: 1.25%

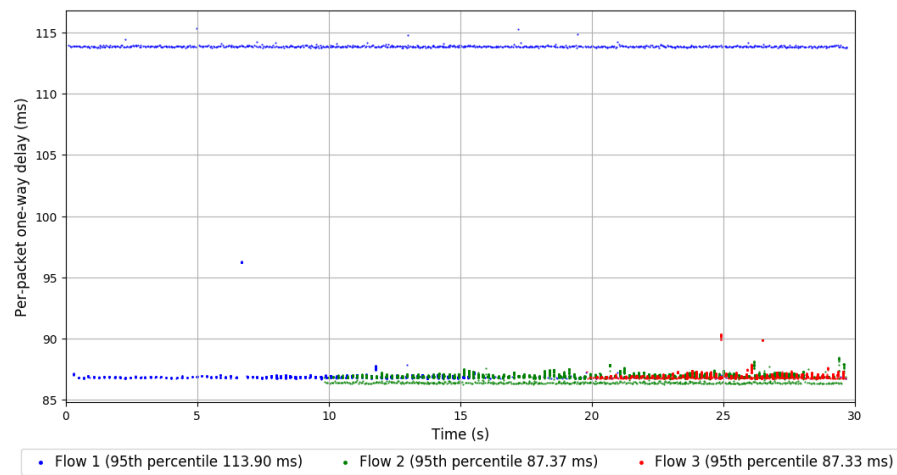
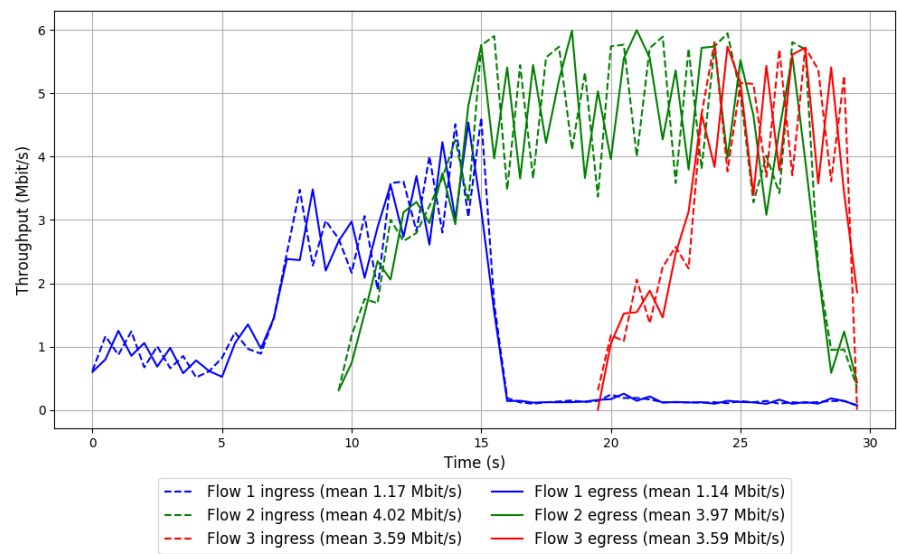
-- Flow 3:

Average throughput: 3.59 Mbit/s

95th percentile per-packet one-way delay: 87.331 ms

Loss rate: 0.00%

Run 5: Report of Sprout — Data Link

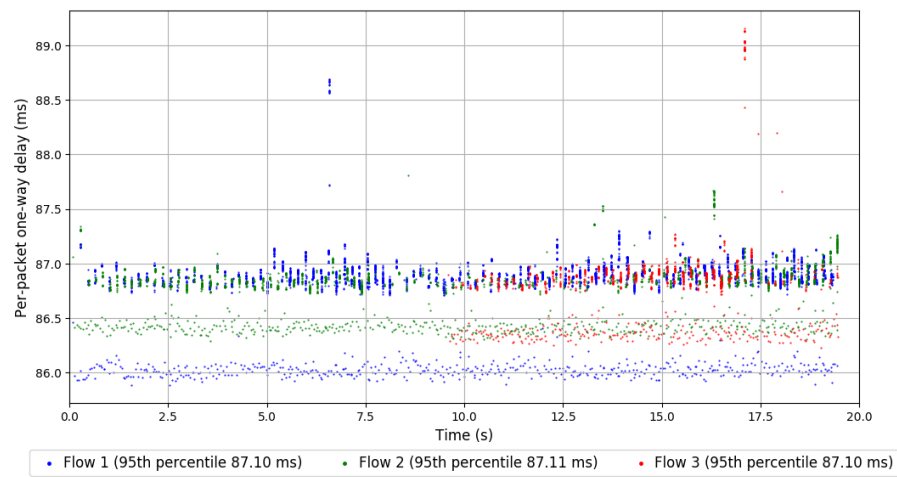
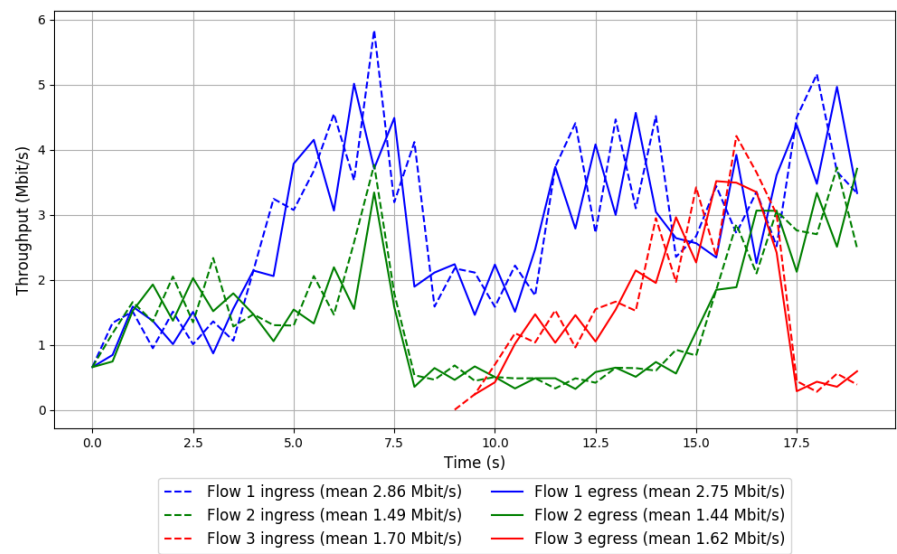


Run 6: Statistics of Sprout

Start at: 2017-08-12 04:12:49

End at: 2017-08-12 04:13:19

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2017-08-12 04:25:34

End at: 2017-08-12 04:26:04

Below is generated by plot.py at 2017-08-12 06:40:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 5.79 Mbit/s

95th percentile per-packet one-way delay: 87.258 ms

Loss rate: 1.96%

-- Flow 1:

Average throughput: 4.14 Mbit/s

95th percentile per-packet one-way delay: 87.284 ms

Loss rate: 0.32%

-- Flow 2:

Average throughput: 1.77 Mbit/s

95th percentile per-packet one-way delay: 87.082 ms

Loss rate: 6.40%

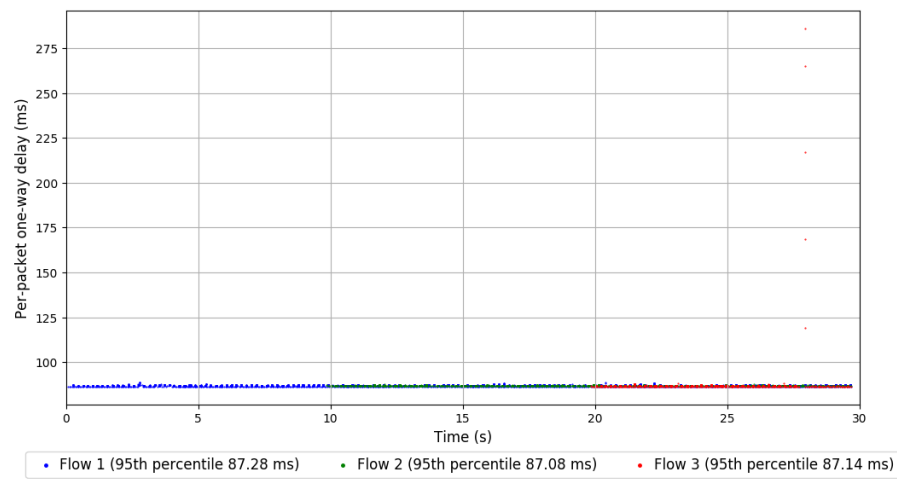
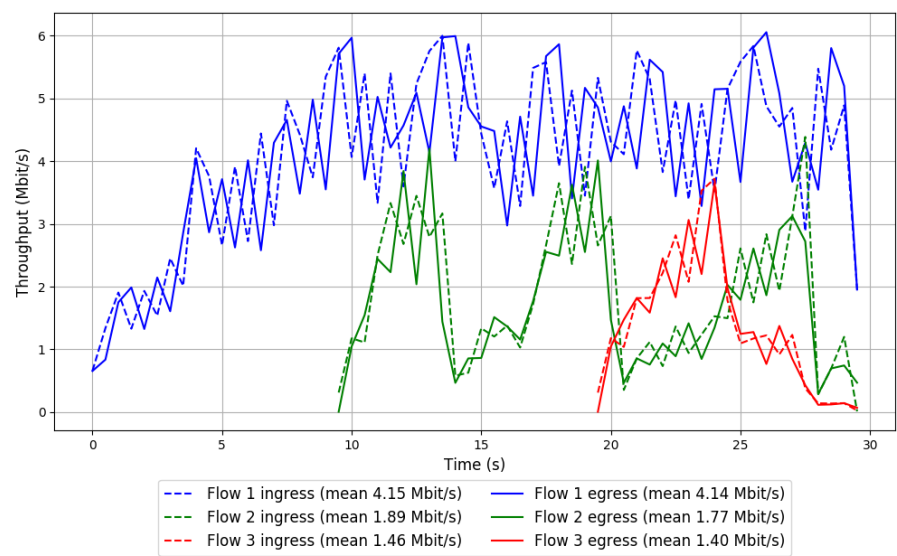
-- Flow 3:

Average throughput: 1.40 Mbit/s

95th percentile per-packet one-way delay: 87.145 ms

Loss rate: 4.45%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2017-08-12 04:38:07

End at: 2017-08-12 04:38:37

Below is generated by plot.py at 2017-08-12 06:40:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 6.32 Mbit/s

95th percentile per-packet one-way delay: 87.133 ms

Loss rate: 1.89%

-- Flow 1:

Average throughput: 3.34 Mbit/s

95th percentile per-packet one-way delay: 87.121 ms

Loss rate: 1.60%

-- Flow 2:

Average throughput: 2.88 Mbit/s

95th percentile per-packet one-way delay: 87.143 ms

Loss rate: 2.88%

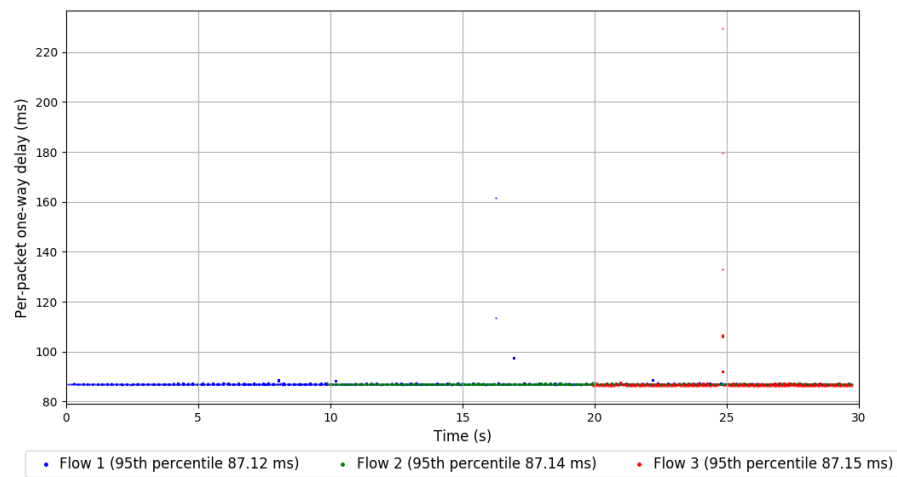
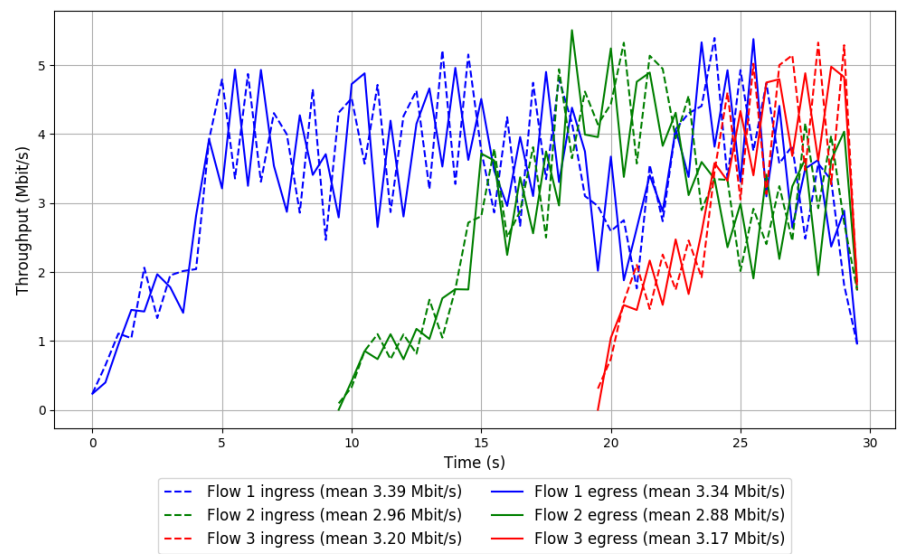
-- Flow 3:

Average throughput: 3.17 Mbit/s

95th percentile per-packet one-way delay: 87.149 ms

Loss rate: 0.98%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2017-08-12 04:50:34

End at: 2017-08-12 04:51:04

Below is generated by plot.py at 2017-08-12 06:40:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.69 Mbit/s

95th percentile per-packet one-way delay: 87.094 ms

Loss rate: 2.92%

-- Flow 1:

Average throughput: 2.64 Mbit/s

95th percentile per-packet one-way delay: 87.092 ms

Loss rate: 2.31%

-- Flow 2:

Average throughput: 2.40 Mbit/s

95th percentile per-packet one-way delay: 87.110 ms

Loss rate: 3.04%

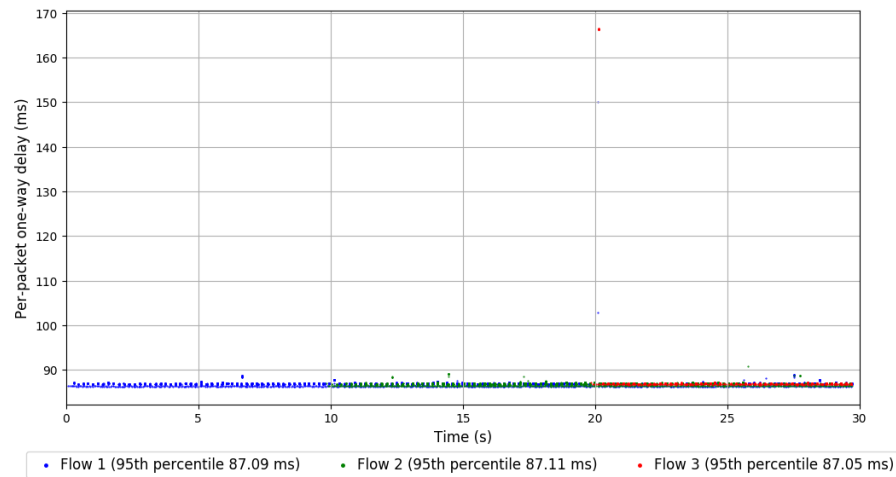
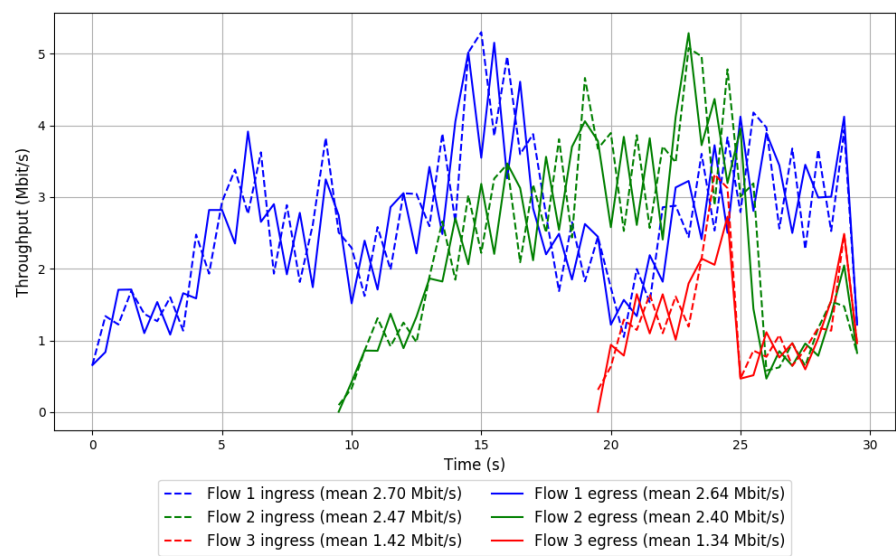
-- Flow 3:

Average throughput: 1.34 Mbit/s

95th percentile per-packet one-way delay: 87.053 ms

Loss rate: 5.94%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2017-08-12 05:03:07

End at: 2017-08-12 05:03:37

Below is generated by plot.py at 2017-08-12 06:40:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 5.01 Mbit/s

95th percentile per-packet one-way delay: 87.213 ms

Loss rate: 2.40%

-- Flow 1:

Average throughput: 2.54 Mbit/s

95th percentile per-packet one-way delay: 87.253 ms

Loss rate: 1.38%

-- Flow 2:

Average throughput: 2.82 Mbit/s

95th percentile per-packet one-way delay: 87.171 ms

Loss rate: 2.92%

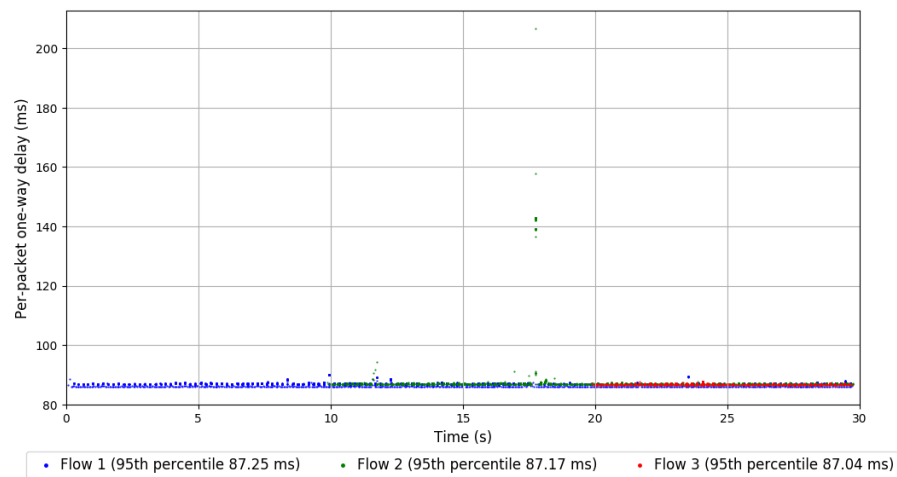
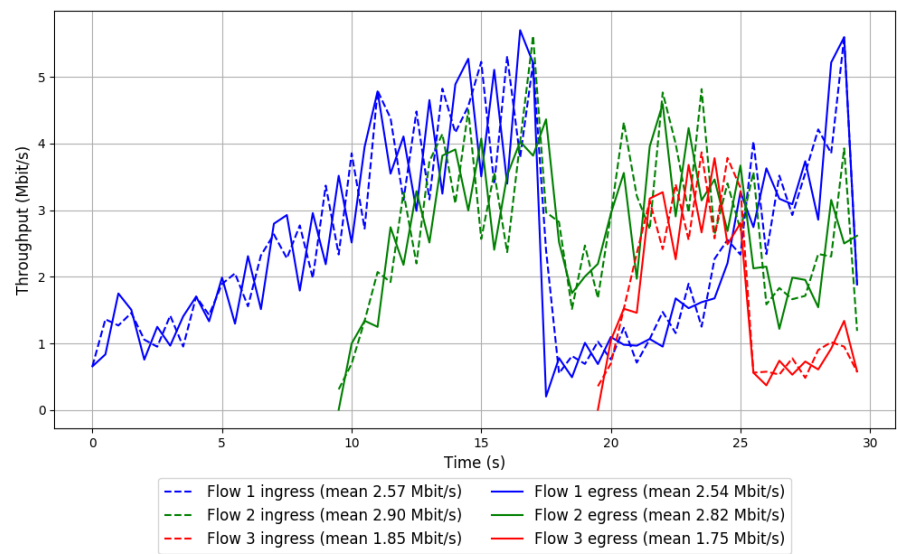
-- Flow 3:

Average throughput: 1.75 Mbit/s

95th percentile per-packet one-way delay: 87.040 ms

Loss rate: 5.02%

Run 10: Report of Sprout — Data Link

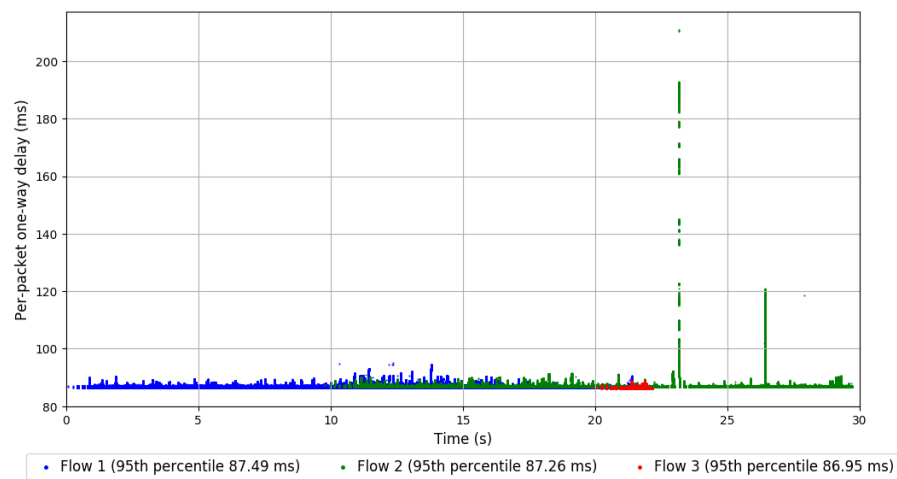
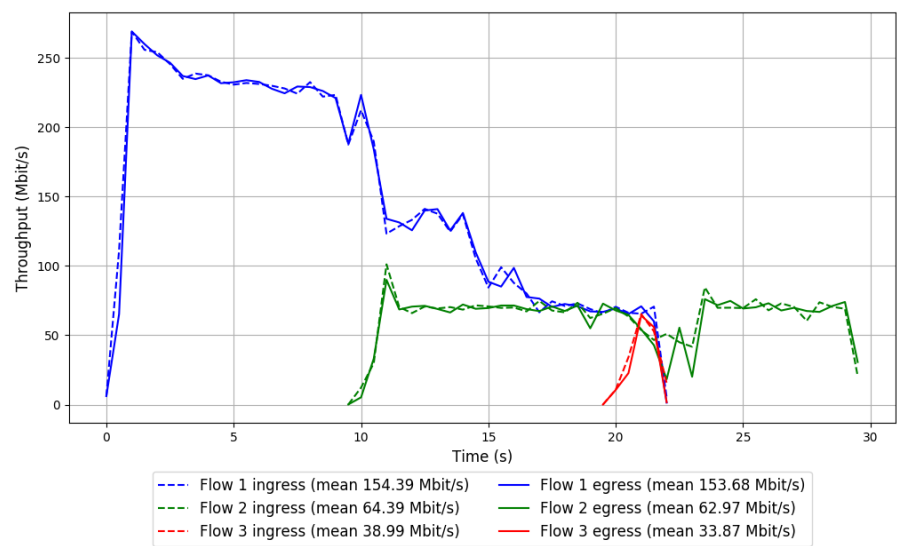


```
Run 1: Statistics of TaoVA-100x

Start at: 2017-08-12 03:03:32
End at: 2017-08-12 03:04:02

# Below is generated by plot.py at 2017-08-12 06:41:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 159.35 Mbit/s
95th percentile per-packet one-way delay: 87.425 ms
Loss rate: 1.17%
-- Flow 1:
Average throughput: 153.68 Mbit/s
95th percentile per-packet one-way delay: 87.492 ms
Loss rate: 0.46%
-- Flow 2:
Average throughput: 62.97 Mbit/s
95th percentile per-packet one-way delay: 87.261 ms
Loss rate: 2.21%
-- Flow 3:
Average throughput: 33.87 Mbit/s
95th percentile per-packet one-way delay: 86.949 ms
Loss rate: 13.14%
```

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

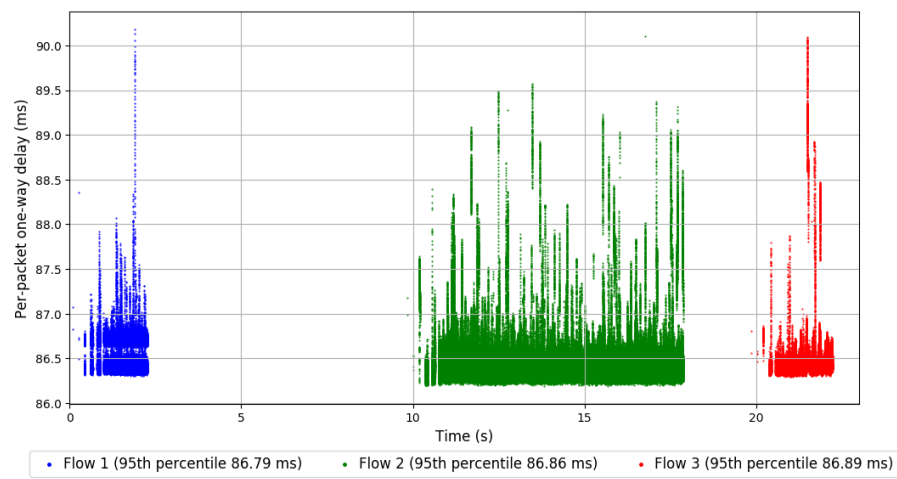
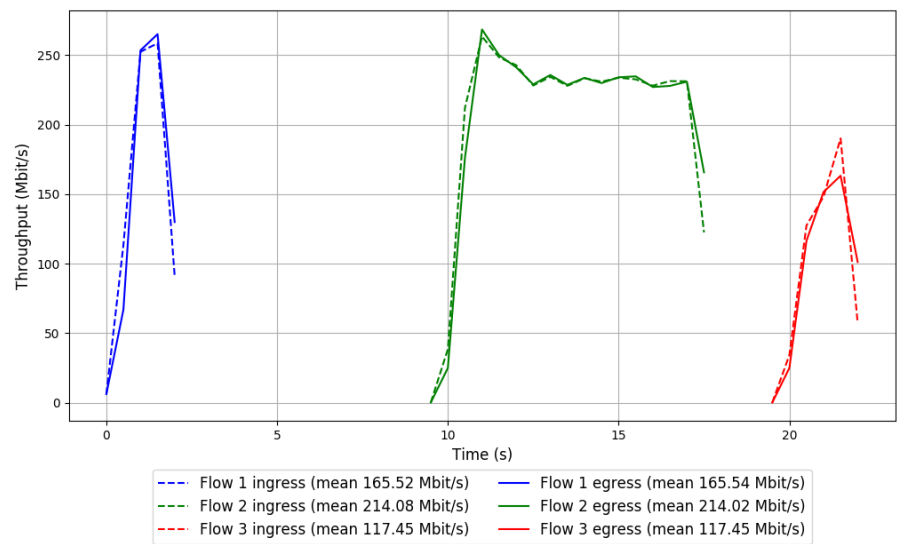


Run 2: Statistics of TaoVA-100x

Start at: 2017-08-12 03:16:40

End at: 2017-08-12 03:17:10

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



Run 3: Statistics of TaoVA-100x

Start at: 2017-08-12 03:29:50

End at: 2017-08-12 03:30:20

Below is generated by plot.py at 2017-08-12 06:42:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 177.93 Mbit/s

95th percentile per-packet one-way delay: 87.232 ms

Loss rate: 1.97%

-- Flow 1:

Average throughput: 122.25 Mbit/s

95th percentile per-packet one-way delay: 87.154 ms

Loss rate: 2.52%

-- Flow 2:

Average throughput: 58.86 Mbit/s

95th percentile per-packet one-way delay: 87.262 ms

Loss rate: 0.89%

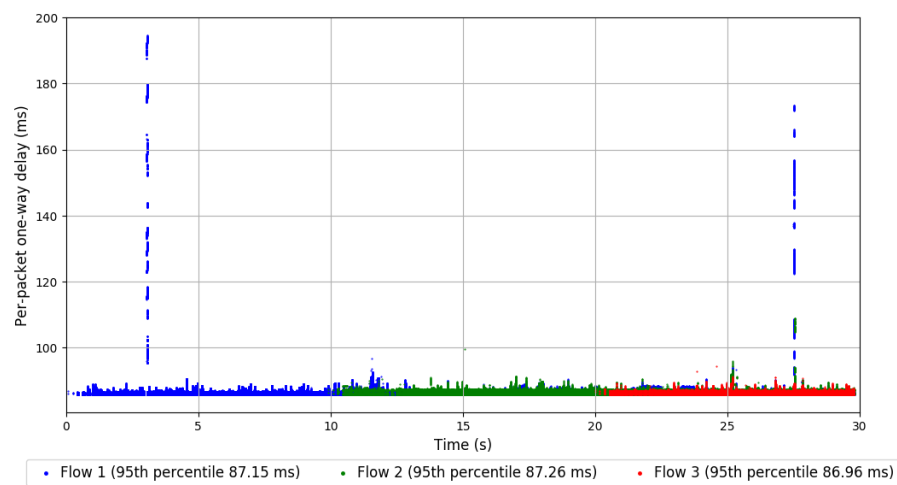
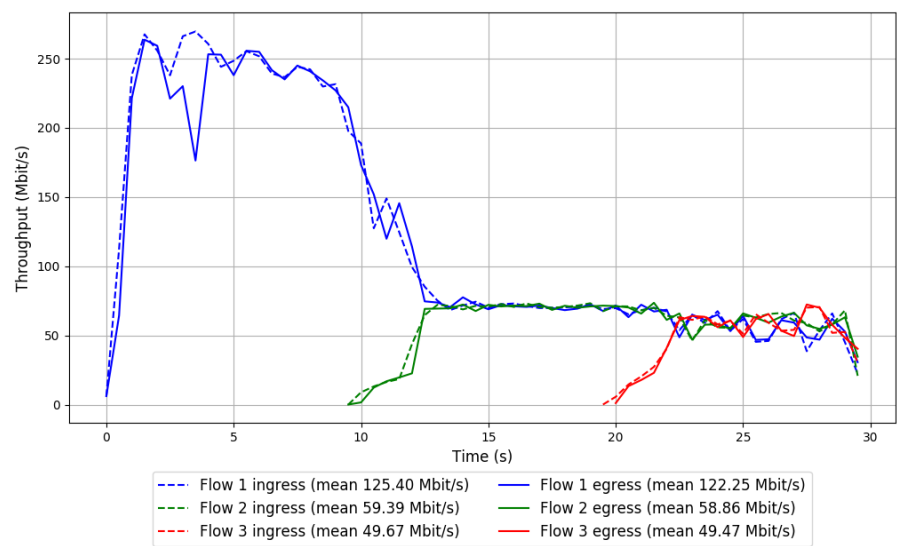
-- Flow 3:

Average throughput: 49.47 Mbit/s

95th percentile per-packet one-way delay: 86.964 ms

Loss rate: 0.40%

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



Run 4: Statistics of TaoVA-100x

Start at: 2017-08-12 03:43:16

End at: 2017-08-12 03:43:46

Below is generated by plot.py at 2017-08-12 06:42:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 192.99 Mbit/s

95th percentile per-packet one-way delay: 88.771 ms

Loss rate: 0.84%

-- Flow 1:

Average throughput: 115.41 Mbit/s

95th percentile per-packet one-way delay: 88.577 ms

Loss rate: 0.85%

-- Flow 2:

Average throughput: 90.62 Mbit/s

95th percentile per-packet one-way delay: 89.521 ms

Loss rate: 1.04%

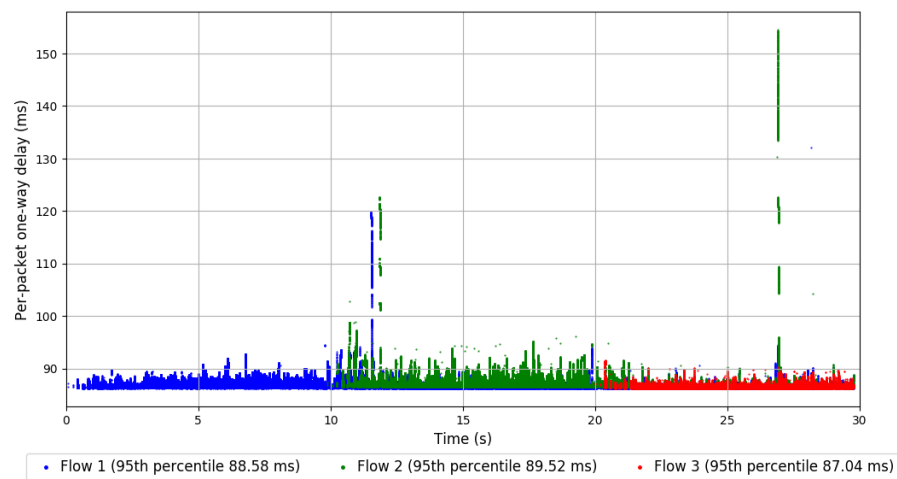
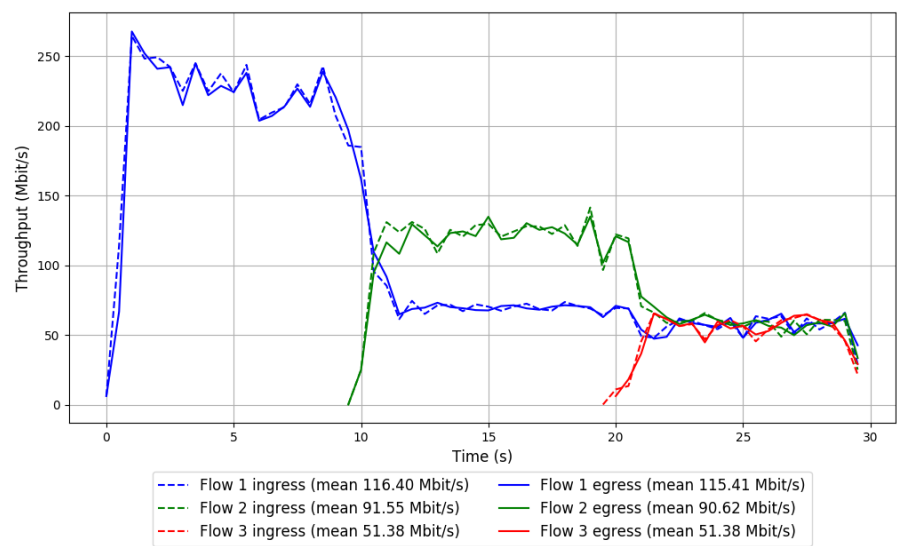
-- Flow 3:

Average throughput: 51.38 Mbit/s

95th percentile per-packet one-way delay: 87.041 ms

Loss rate: 0.00%

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

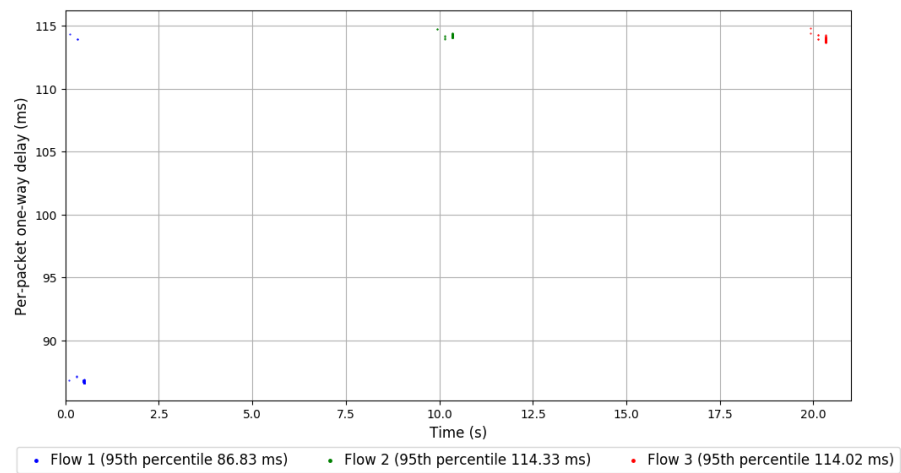
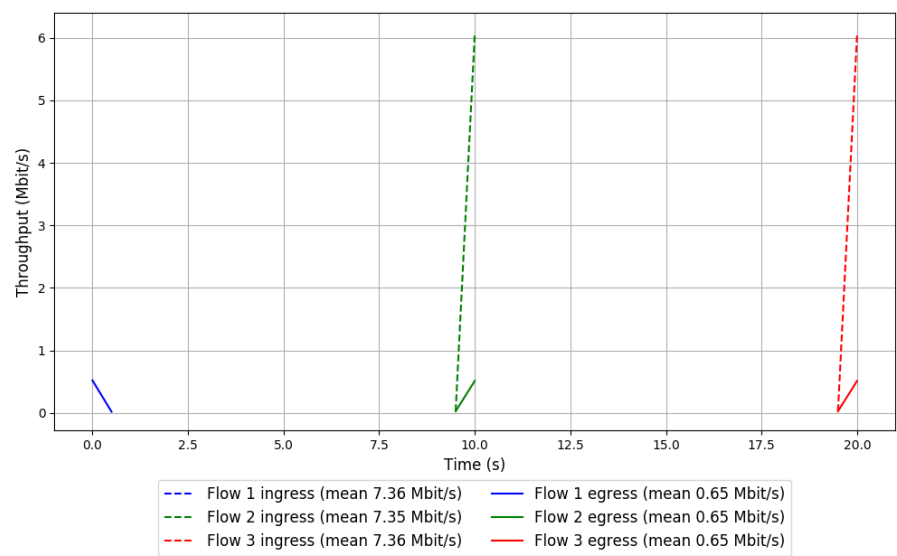


Run 5: Statistics of TaoVA-100x

Start at: 2017-08-12 03:55:50

End at: 2017-08-12 03:56:20

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



Run 6: Statistics of TaoVA-100x

Start at: 2017-08-12 04:07:47

End at: 2017-08-12 04:08:17

Below is generated by plot.py at 2017-08-12 06:43:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 173.95 Mbit/s

95th percentile per-packet one-way delay: 87.471 ms

Loss rate: 0.92%

-- Flow 1:

Average throughput: 114.48 Mbit/s

95th percentile per-packet one-way delay: 87.750 ms

Loss rate: 0.95%

-- Flow 2:

Average throughput: 65.24 Mbit/s

95th percentile per-packet one-way delay: 86.880 ms

Loss rate: 1.20%

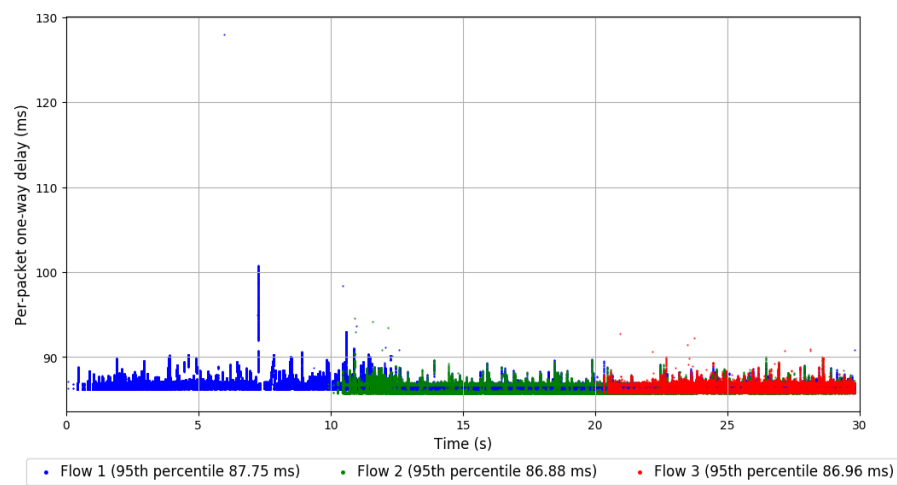
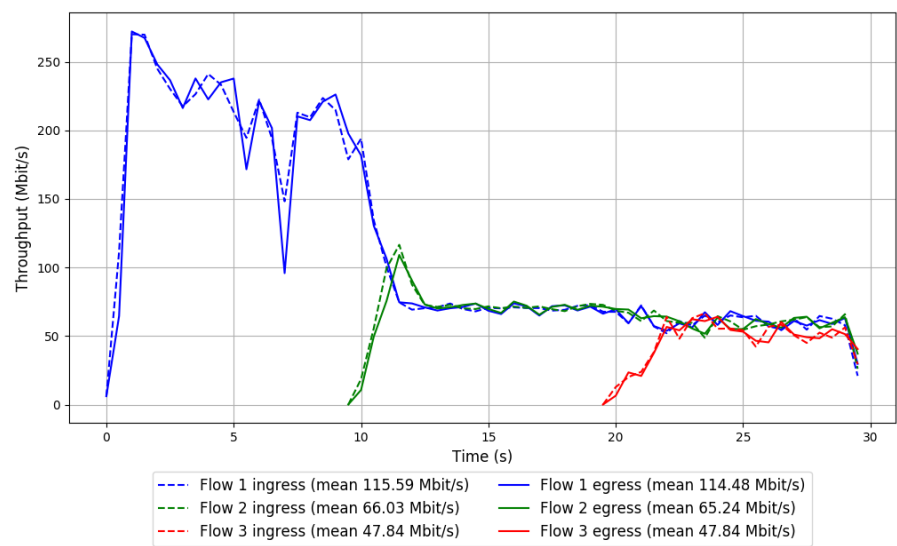
-- Flow 3:

Average throughput: 47.84 Mbit/s

95th percentile per-packet one-way delay: 86.960 ms

Loss rate: 0.00%

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



Run 7: Statistics of TaoVA-100x

Start at: 2017-08-12 04:20:14

End at: 2017-08-12 04:20:44

Below is generated by plot.py at 2017-08-12 06:43:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 191.60 Mbit/s

95th percentile per-packet one-way delay: 87.193 ms

Loss rate: 1.16%

-- Flow 1:

Average throughput: 207.95 Mbit/s

95th percentile per-packet one-way delay: 87.231 ms

Loss rate: 3.11%

-- Flow 2:

Average throughput: 150.21 Mbit/s

95th percentile per-packet one-way delay: 87.175 ms

Loss rate: 0.06%

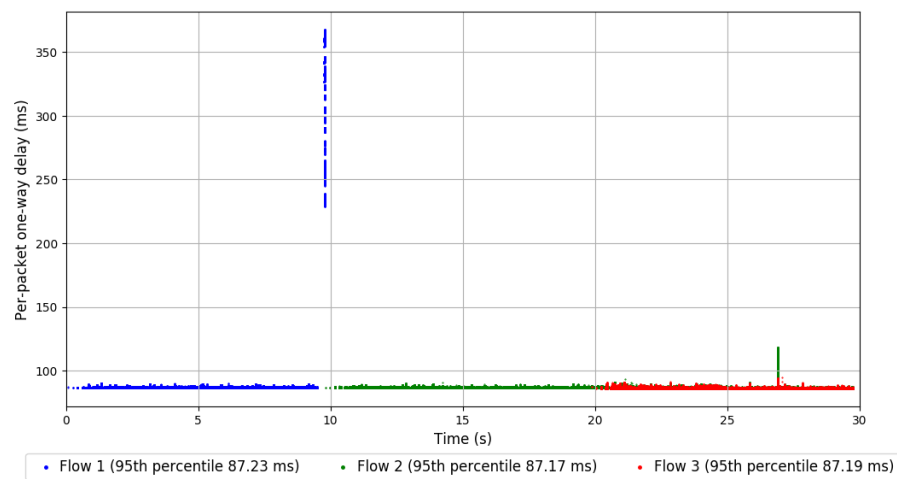
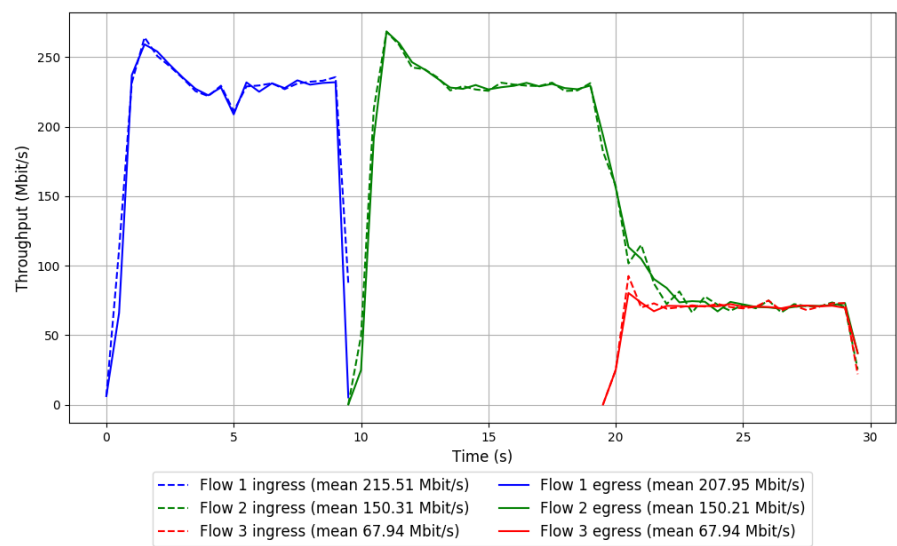
-- Flow 3:

Average throughput: 67.94 Mbit/s

95th percentile per-packet one-way delay: 87.189 ms

Loss rate: 0.00%

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



Run 8: Statistics of TaoVA-100x

Start at: 2017-08-12 04:33:00

End at: 2017-08-12 04:33:30

Below is generated by plot.py at 2017-08-12 06:44:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 176.94 Mbit/s

95th percentile per-packet one-way delay: 87.102 ms

Loss rate: 0.67%

-- Flow 1:

Average throughput: 141.00 Mbit/s

95th percentile per-packet one-way delay: 87.282 ms

Loss rate: 0.55%

-- Flow 2:

Average throughput: 64.04 Mbit/s

95th percentile per-packet one-way delay: 86.883 ms

Loss rate: 0.81%

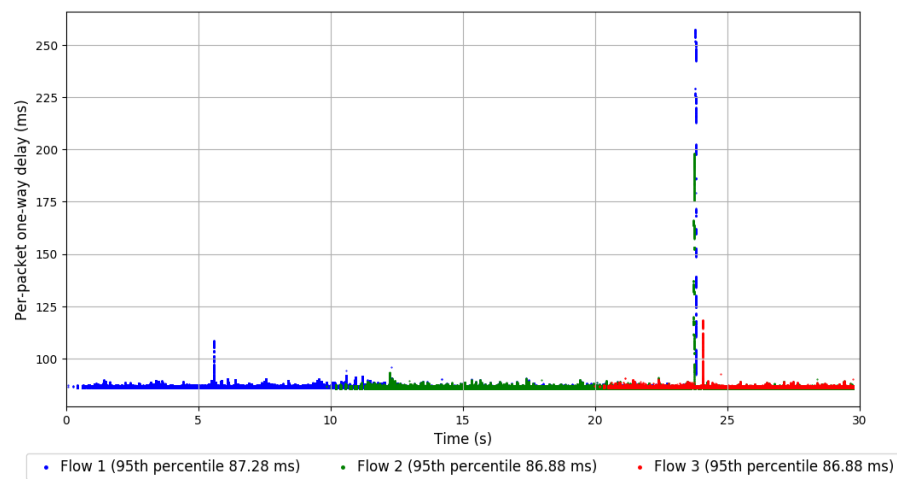
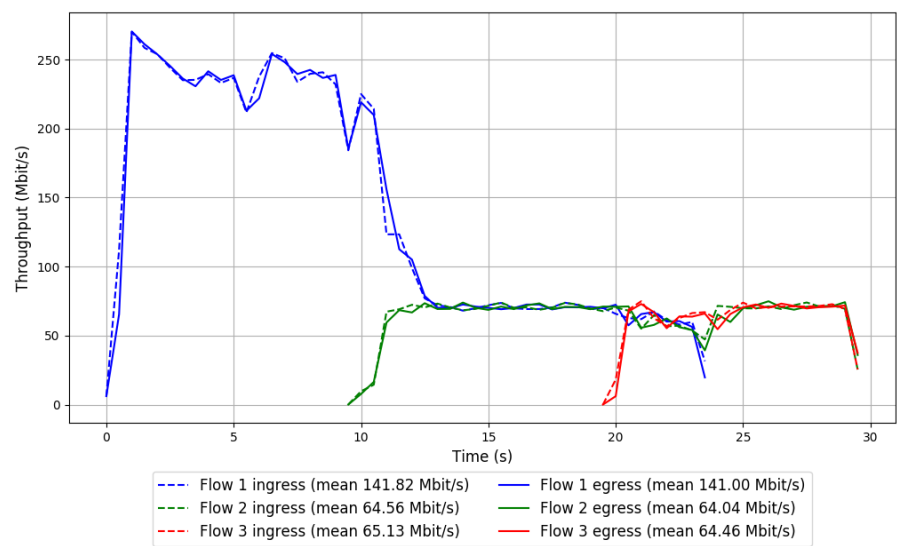
-- Flow 3:

Average throughput: 64.46 Mbit/s

95th percentile per-packet one-way delay: 86.884 ms

Loss rate: 1.01%

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

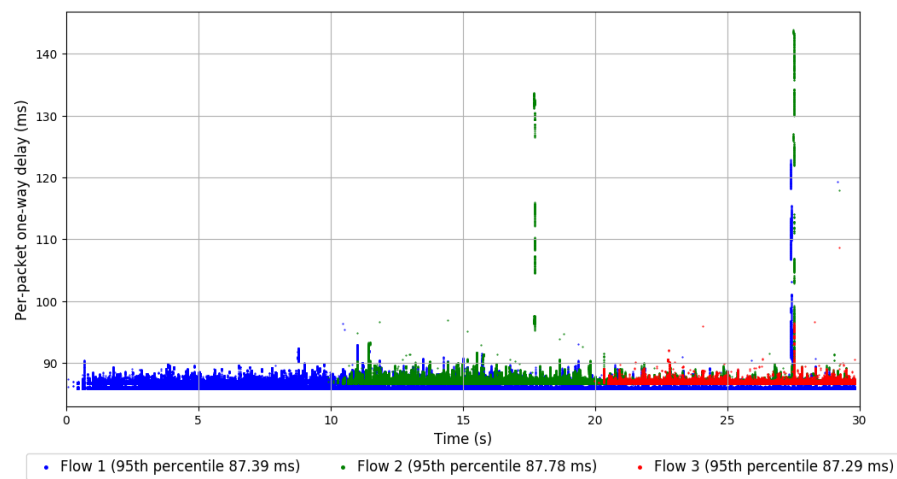
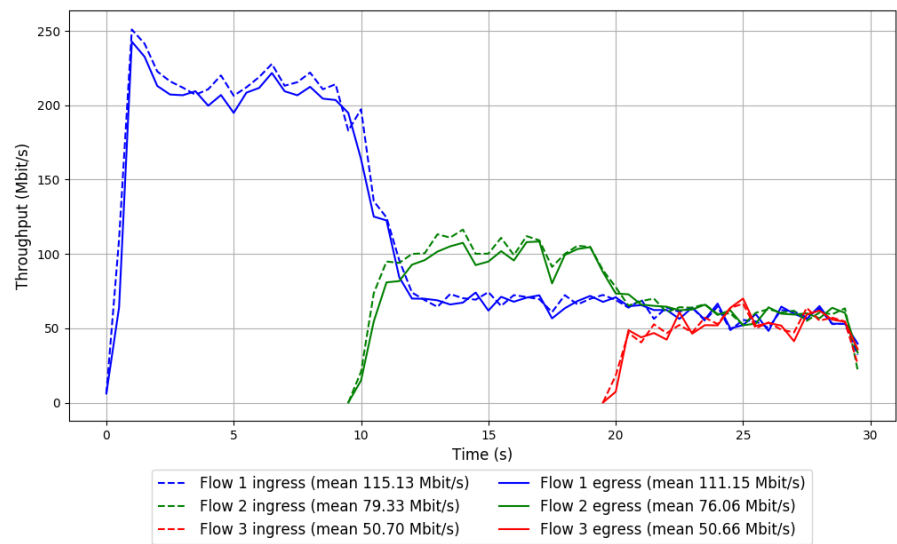


```
Run 9: Statistics of TaoVA-100x

Start at: 2017-08-12 04:45:37
End at: 2017-08-12 04:46:07

# Below is generated by plot.py at 2017-08-12 06:44:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 178.82 Mbit/s
95th percentile per-packet one-way delay: 87.507 ms
Loss rate: 3.37%
-- Flow 1:
Average throughput: 111.15 Mbit/s
95th percentile per-packet one-way delay: 87.386 ms
Loss rate: 3.46%
-- Flow 2:
Average throughput: 76.06 Mbit/s
95th percentile per-packet one-way delay: 87.784 ms
Loss rate: 4.20%
-- Flow 3:
Average throughput: 50.66 Mbit/s
95th percentile per-packet one-way delay: 87.293 ms
Loss rate: 0.18%
```

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

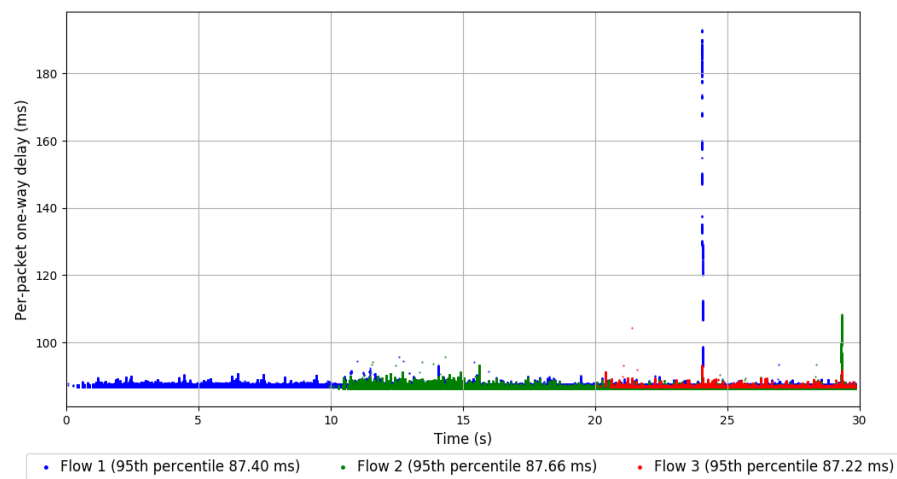
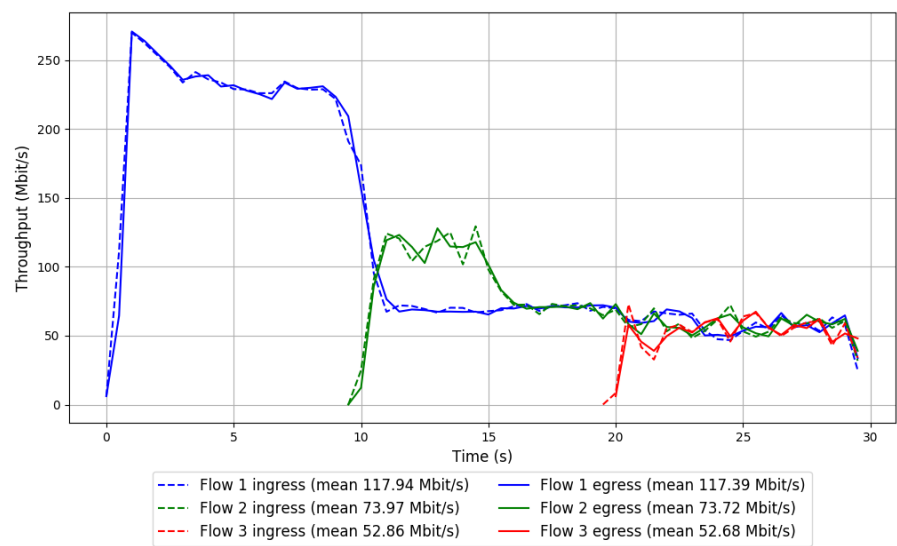


```
Run 10: Statistics of TaoVA-100x

Start at: 2017-08-12 04:58:03
End at: 2017-08-12 04:58:33

# Below is generated by plot.py at 2017-08-12 06:45:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 184.02 Mbit/s
95th percentile per-packet one-way delay: 87.428 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 117.39 Mbit/s
95th percentile per-packet one-way delay: 87.401 ms
Loss rate: 0.47%
-- Flow 2:
Average throughput: 73.72 Mbit/s
95th percentile per-packet one-way delay: 87.655 ms
Loss rate: 0.34%
-- Flow 3:
Average throughput: 52.68 Mbit/s
95th percentile per-packet one-way delay: 87.220 ms
Loss rate: 0.35%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2017-08-12 03:02:02

End at: 2017-08-12 03:02:32

Run 1: Report of TCP Vegas — Data Link

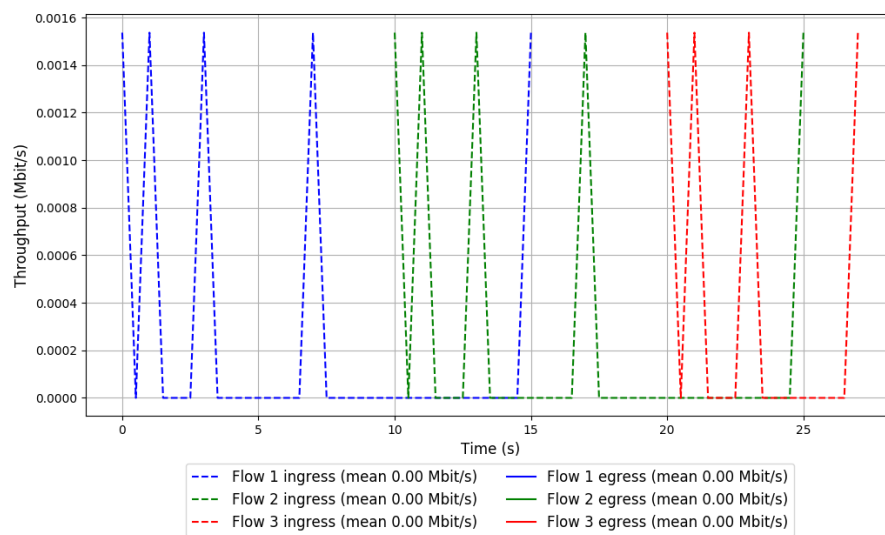


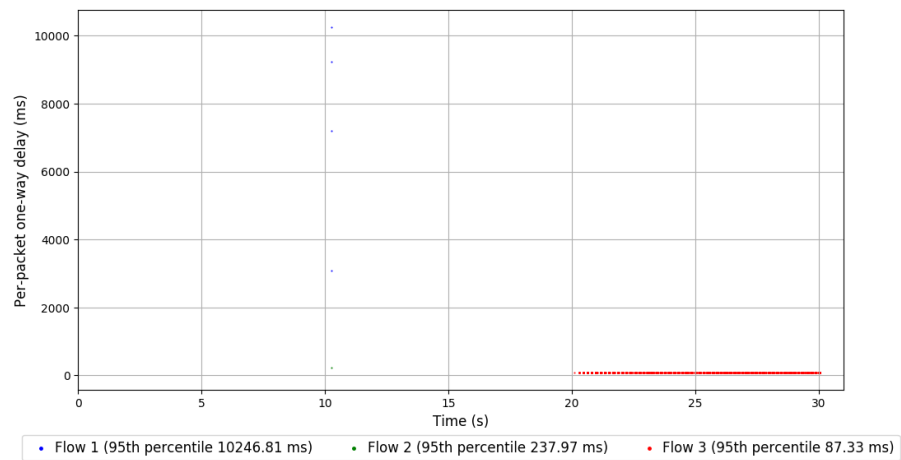
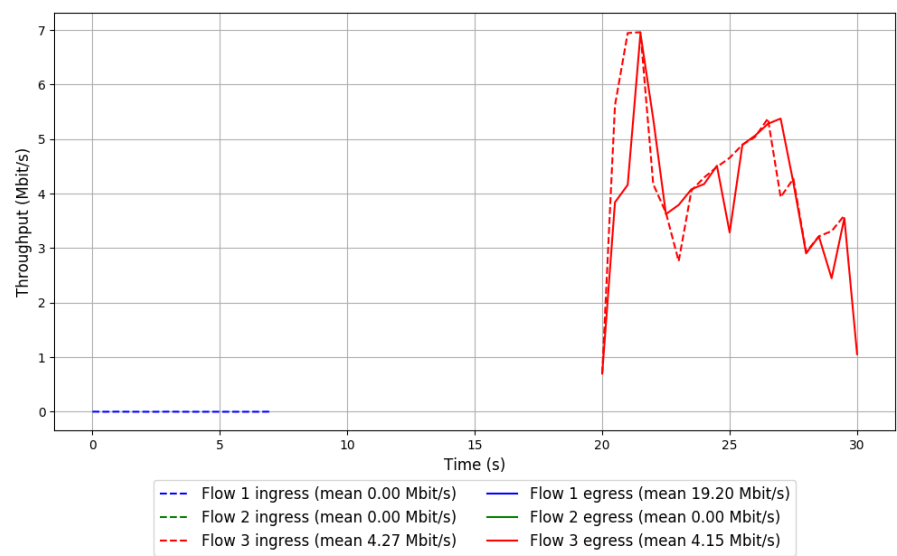
Figure is missing

Run 2: Statistics of TCP Vegas

Start at: 2017-08-12 03:15:05

End at: 2017-08-12 03:15:35

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2017-08-12 03:28:19

End at: 2017-08-12 03:28:49

Below is generated by plot.py at 2017-08-12 06:45:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 5.94 Mbit/s

95th percentile per-packet one-way delay: 87.005 ms

Loss rate: 1.20%

-- Flow 1:

Average throughput: 11.64 Mbit/s

95th percentile per-packet one-way delay: 2013.582 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 5.74 Mbit/s

95th percentile per-packet one-way delay: 87.029 ms

Loss rate: 1.14%

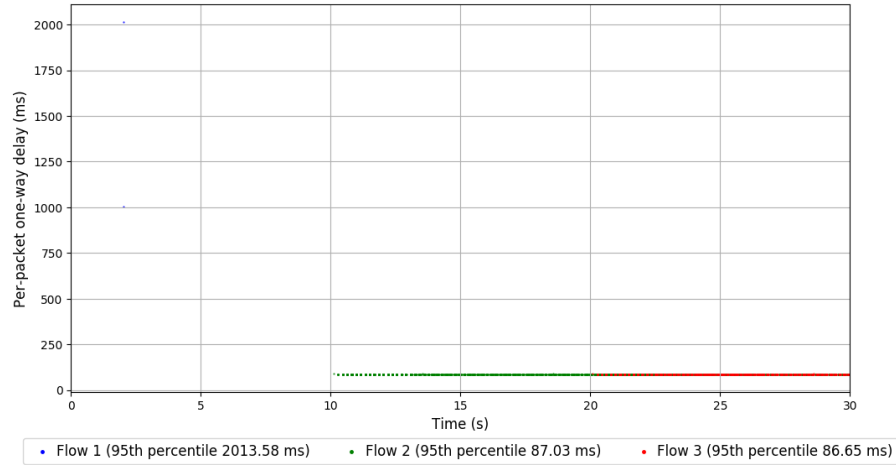
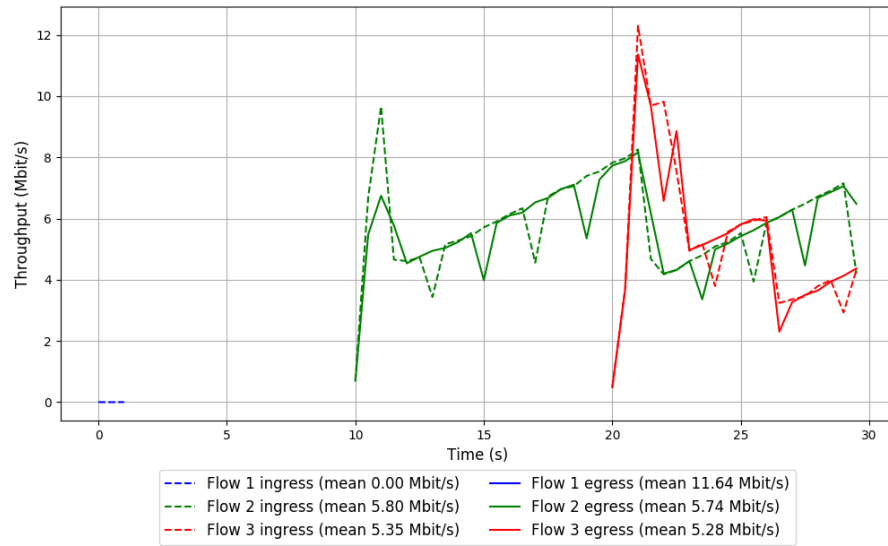
-- Flow 3:

Average throughput: 5.28 Mbit/s

95th percentile per-packet one-way delay: 86.652 ms

Loss rate: 1.31%

Run 3: Report of TCP Vegas — Data Link

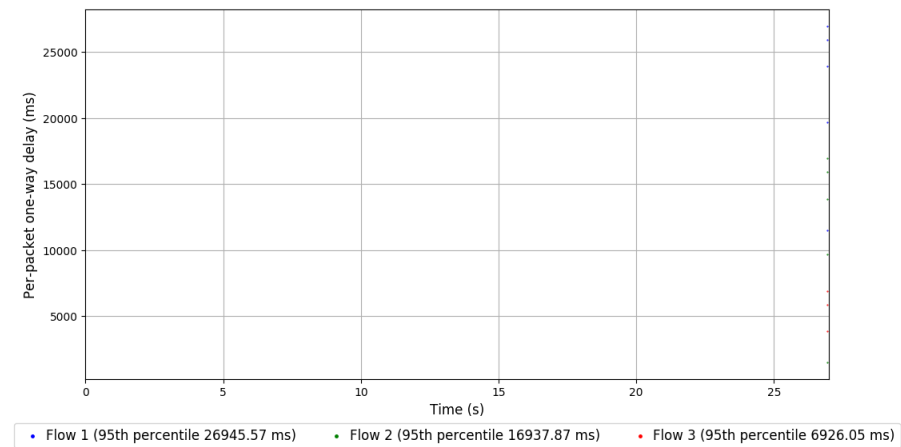
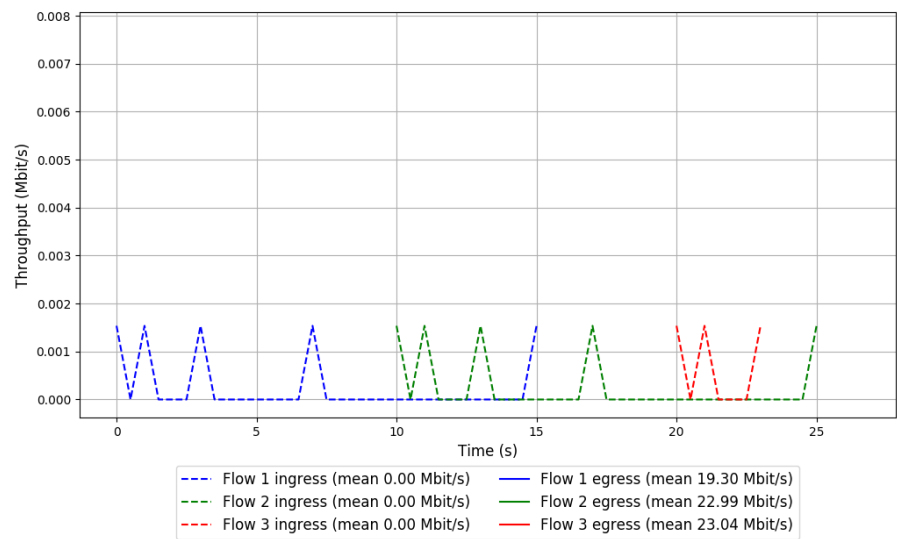


Run 4: Statistics of TCP Vegas

Start at: 2017-08-12 03:41:46

End at: 2017-08-12 03:42:16

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2017-08-12 03:54:19

End at: 2017-08-12 03:54:49

Below is generated by plot.py at 2017-08-12 06:45:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 2.53 Mbit/s

95th percentile per-packet one-way delay: 114.453 ms

Loss rate: 4.60%

-- Flow 1:

Average throughput: 0.78 Mbit/s

95th percentile per-packet one-way delay: 114.367 ms

Loss rate: 2.23%

-- Flow 2:

Average throughput: 0.61 Mbit/s

95th percentile per-packet one-way delay: 114.615 ms

Loss rate: 4.24%

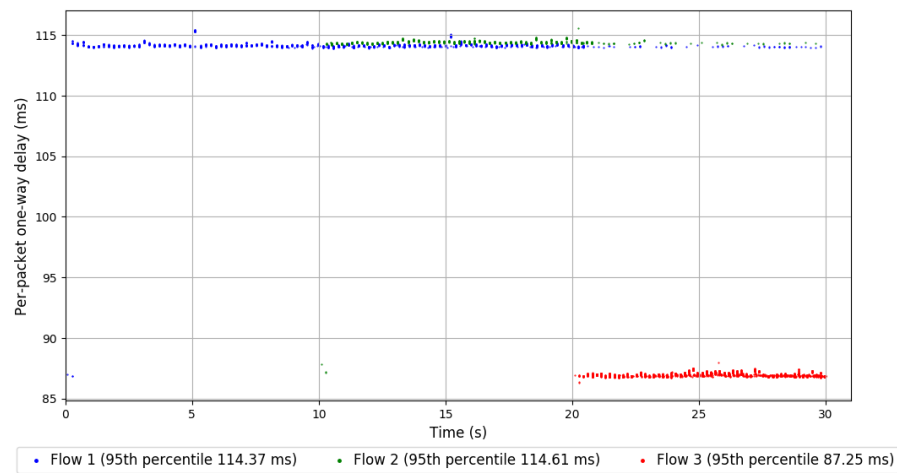
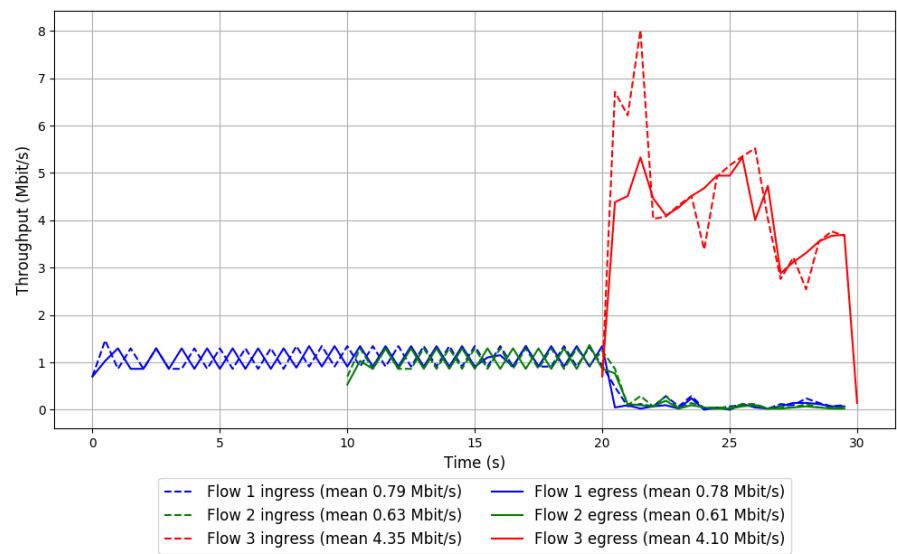
-- Flow 3:

Average throughput: 4.10 Mbit/s

95th percentile per-packet one-way delay: 87.252 ms

Loss rate: 6.00%

Run 5: Report of TCP Vegas — Data Link

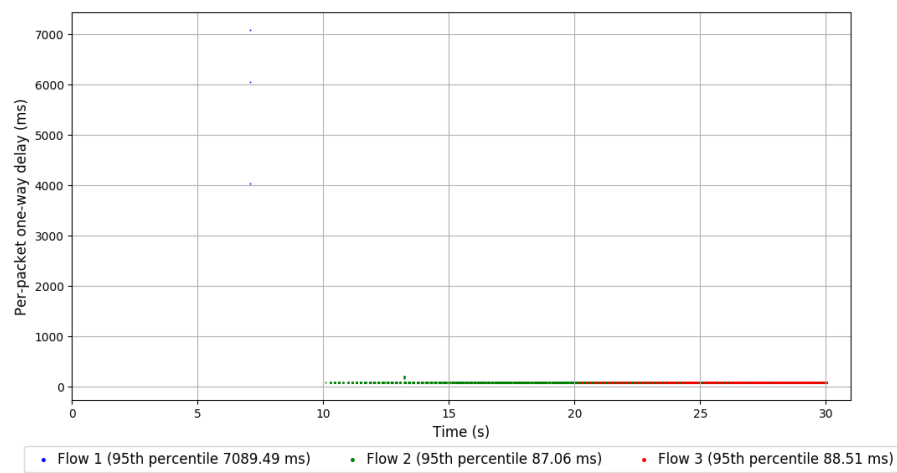
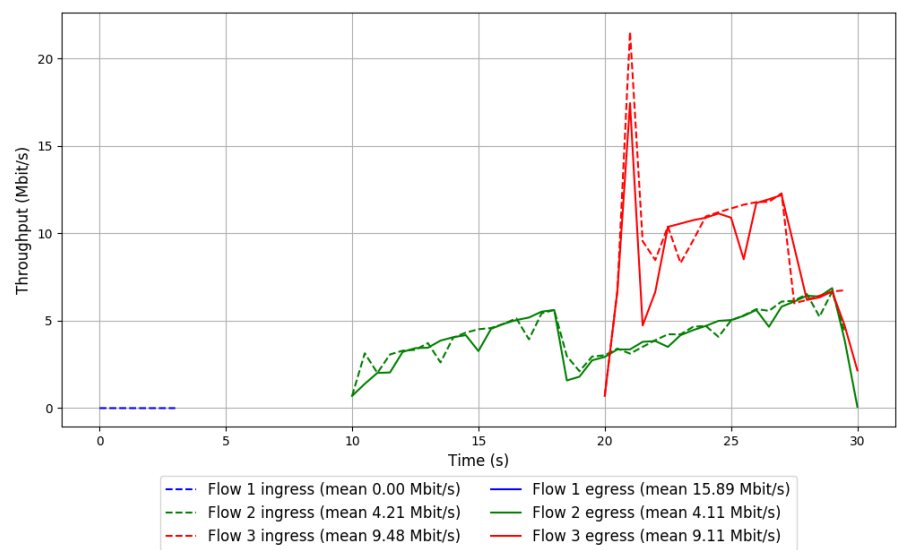


Run 6: Statistics of TCP Vegas

Start at: 2017-08-12 04:06:16

End at: 2017-08-12 04:06:46

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2017-08-12 04:18:42

End at: 2017-08-12 04:19:12

Below is generated by plot.py at 2017-08-12 06:45:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 19.68 Mbit/s

95th percentile per-packet one-way delay: 87.268 ms

Loss rate: 1.87%

-- Flow 1:

Average throughput: 6.51 Mbit/s

95th percentile per-packet one-way delay: 87.089 ms

Loss rate: 0.40%

-- Flow 2:

Average throughput: 17.31 Mbit/s

95th percentile per-packet one-way delay: 87.426 ms

Loss rate: 2.69%

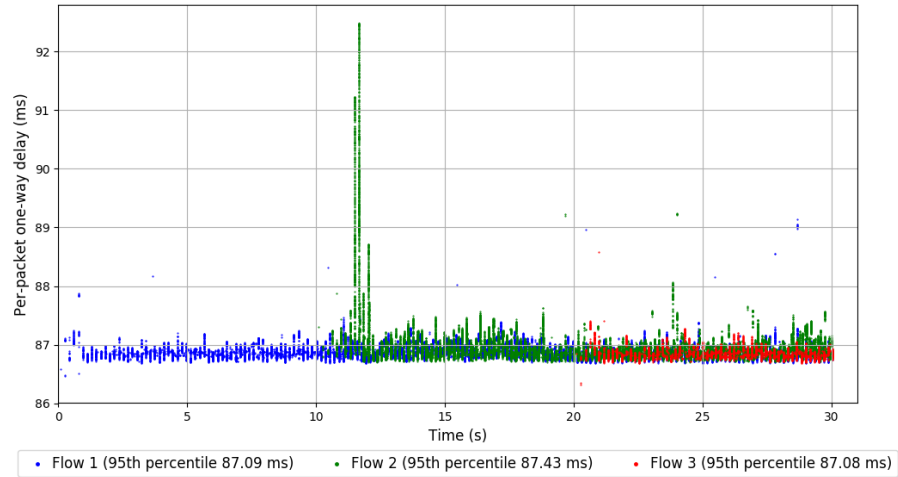
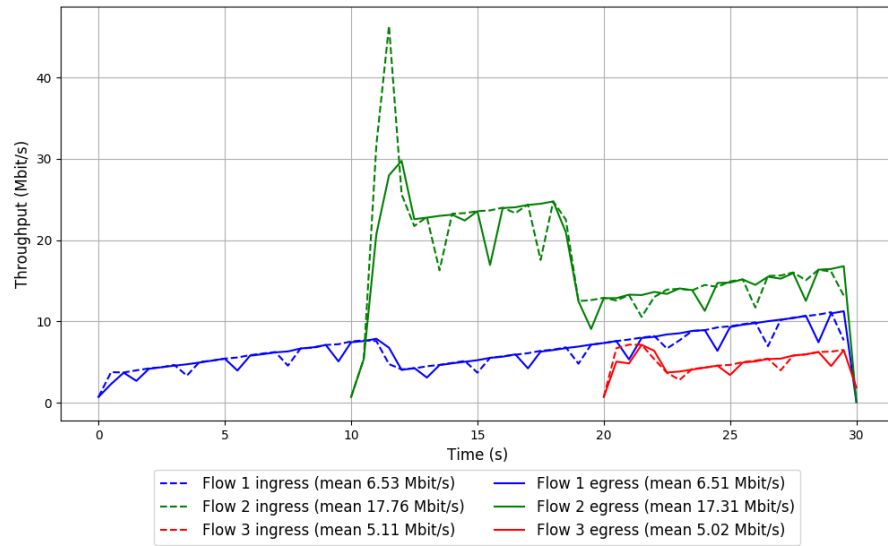
-- Flow 3:

Average throughput: 5.02 Mbit/s

95th percentile per-packet one-way delay: 87.080 ms

Loss rate: 1.87%

Run 7: Report of TCP Vegas — Data Link

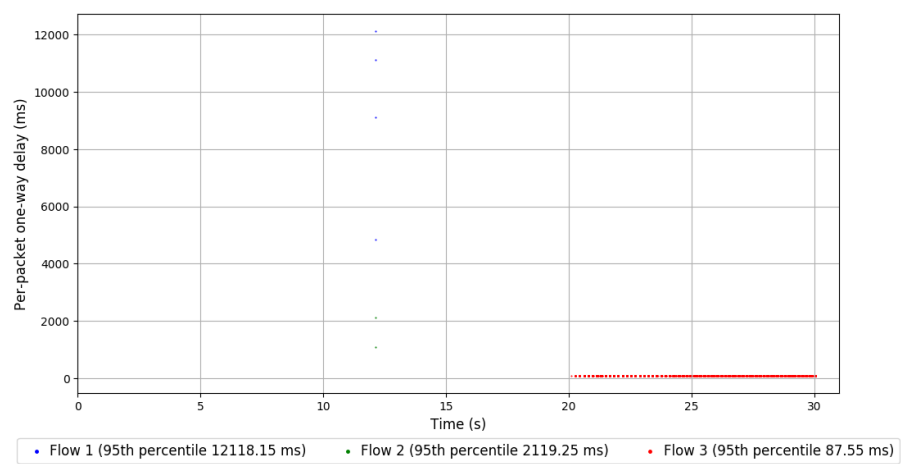
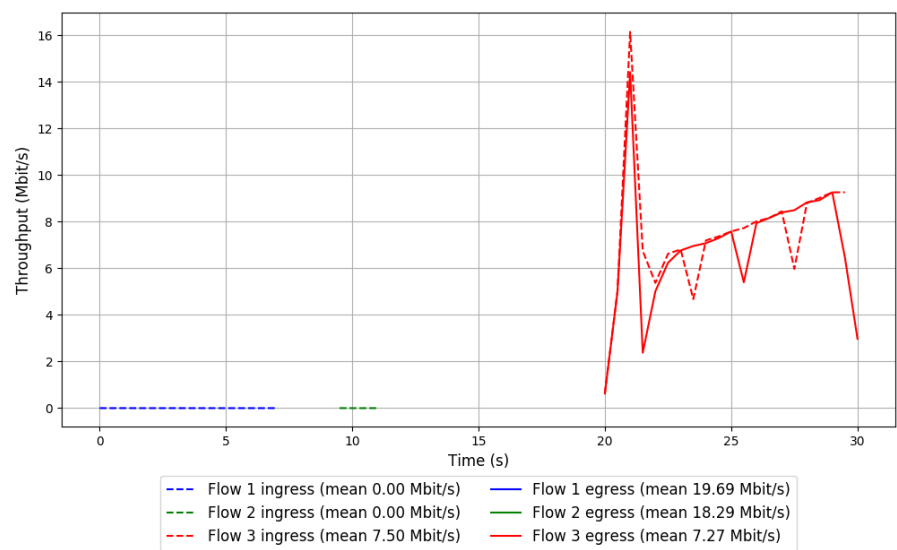


Run 8: Statistics of TCP Vegas

Start at: 2017-08-12 04:31:30

End at: 2017-08-12 04:32:00

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2017-08-12 04:44:04

End at: 2017-08-12 04:44:34

Below is generated by plot.py at 2017-08-12 06:45:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 21.17 Mbit/s

95th percentile per-packet one-way delay: 87.501 ms

Loss rate: 1.04%

-- Flow 1:

Average throughput: 15.02 Mbit/s

95th percentile per-packet one-way delay: 87.546 ms

Loss rate: 0.49%

-- Flow 2:

Average throughput: 8.43 Mbit/s

95th percentile per-packet one-way delay: 87.394 ms

Loss rate: 2.51%

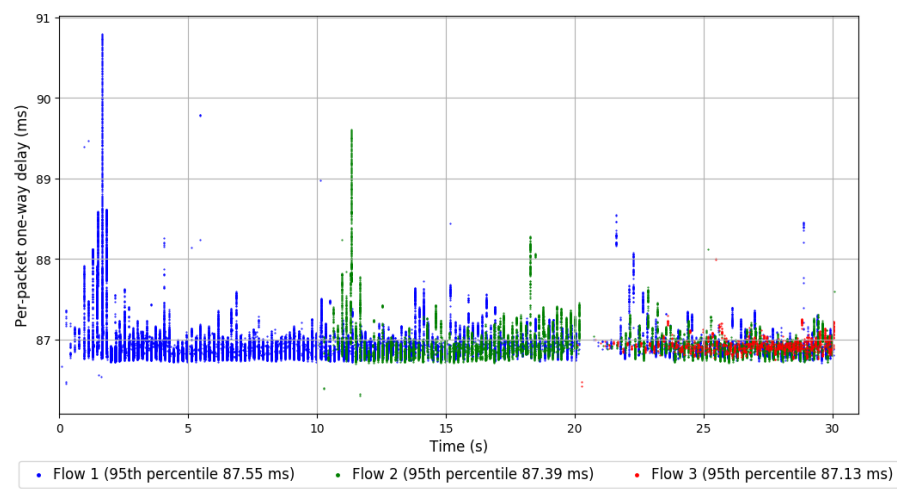
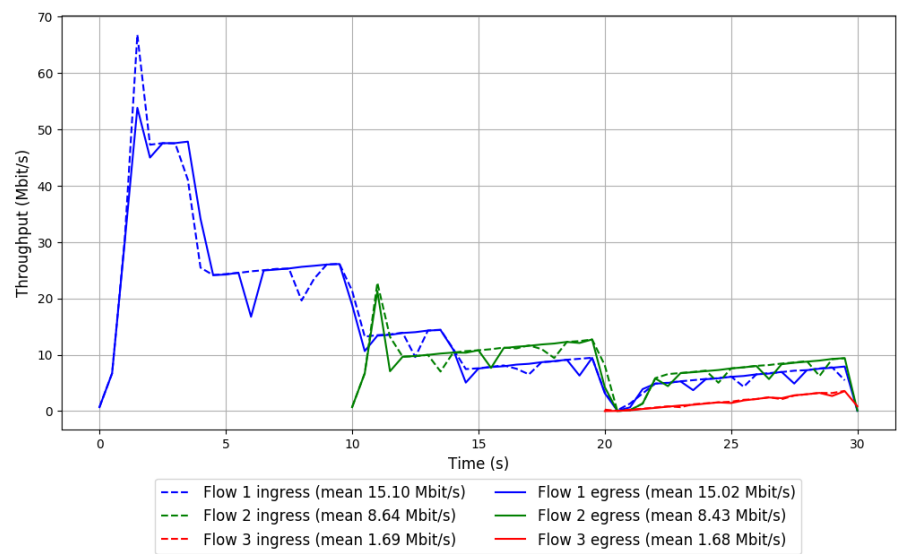
-- Flow 3:

Average throughput: 1.68 Mbit/s

95th percentile per-packet one-way delay: 87.128 ms

Loss rate: 0.79%

Run 9: Report of TCP Vegas — Data Link

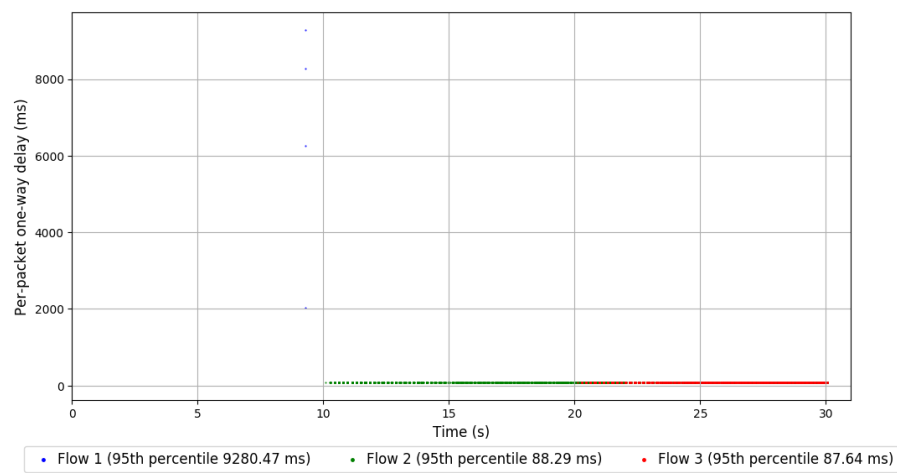
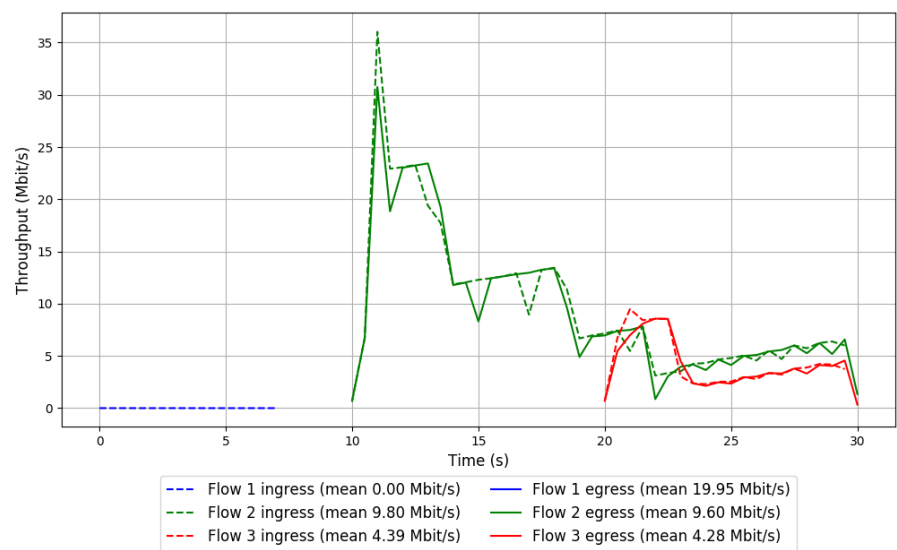


Run 10: Statistics of TCP Vegas

Start at: 2017-08-12 04:56:32

End at: 2017-08-12 04:57:02

Run 10: Report of TCP Vegas — Data Link

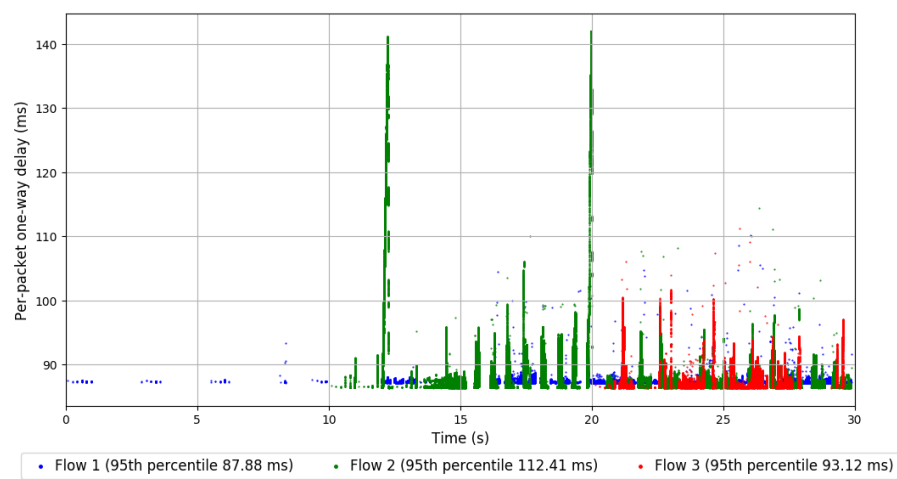
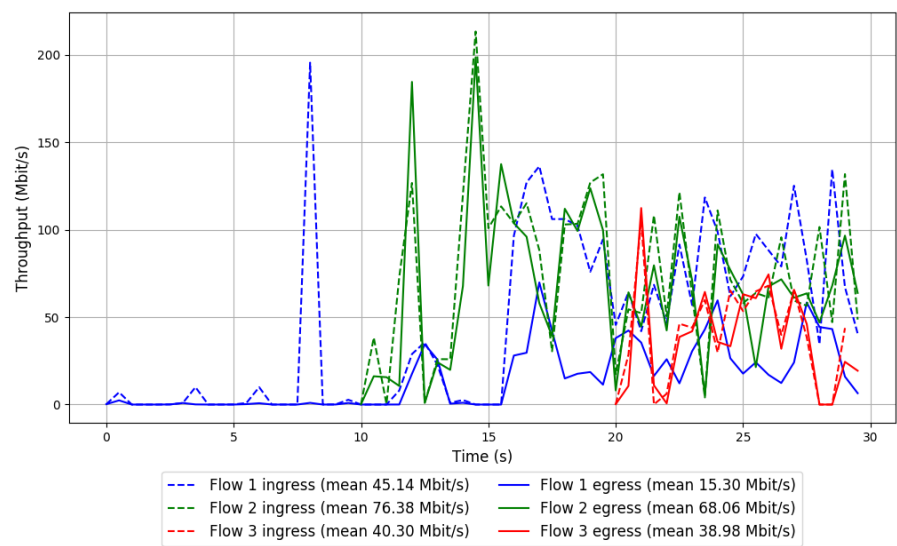


```
Run 1: Statistics of Verus

Start at: 2017-08-12 03:11:22
End at: 2017-08-12 03:11:52

# Below is generated by plot.py at 2017-08-12 06:45:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 72.80 Mbit/s
95th percentile per-packet one-way delay: 97.324 ms
Loss rate: 32.94%
-- Flow 1:
Average throughput: 15.30 Mbit/s
95th percentile per-packet one-way delay: 87.883 ms
Loss rate: 66.10%
-- Flow 2:
Average throughput: 68.06 Mbit/s
95th percentile per-packet one-way delay: 112.407 ms
Loss rate: 10.88%
-- Flow 3:
Average throughput: 38.98 Mbit/s
95th percentile per-packet one-way delay: 93.122 ms
Loss rate: 3.18%
```

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2017-08-12 03:24:17

End at: 2017-08-12 03:24:47

Below is generated by plot.py at 2017-08-12 06:45:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 79.78 Mbit/s

95th percentile per-packet one-way delay: 92.365 ms

Loss rate: 21.17%

-- Flow 1:

Average throughput: 36.77 Mbit/s

95th percentile per-packet one-way delay: 94.548 ms

Loss rate: 4.25%

-- Flow 2:

Average throughput: 35.86 Mbit/s

95th percentile per-packet one-way delay: 90.019 ms

Loss rate: 44.30%

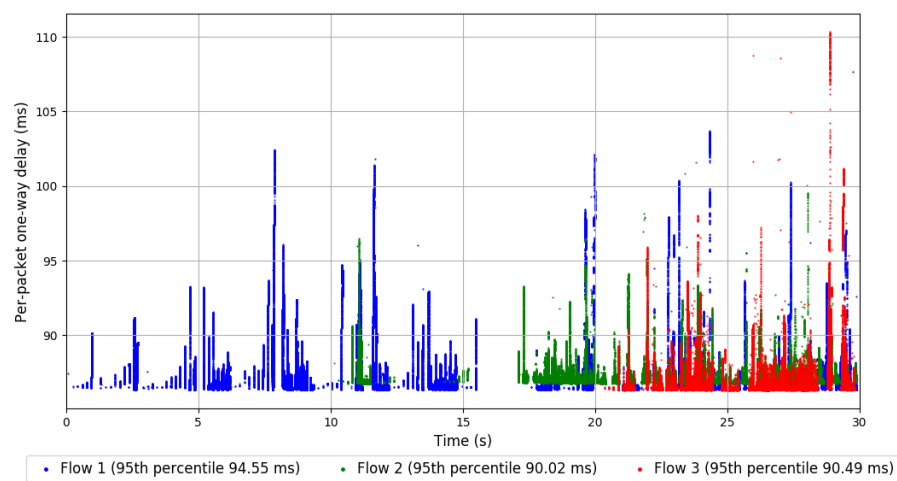
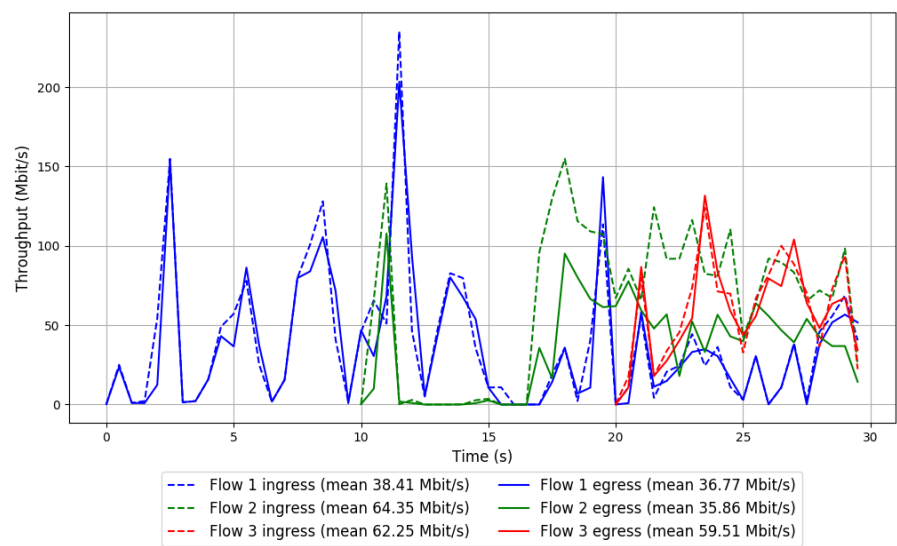
-- Flow 3:

Average throughput: 59.51 Mbit/s

95th percentile per-packet one-way delay: 90.486 ms

Loss rate: 4.40%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2017-08-12 03:37:32

End at: 2017-08-12 03:38:02

Below is generated by plot.py at 2017-08-12 06:45:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.42 Mbit/s

95th percentile per-packet one-way delay: 117.753 ms

Loss rate: 40.10%

-- Flow 1:

Average throughput: 62.67 Mbit/s

95th percentile per-packet one-way delay: 131.997 ms

Loss rate: 20.12%

-- Flow 2:

Average throughput: 39.90 Mbit/s

95th percentile per-packet one-way delay: 88.711 ms

Loss rate: 62.21%

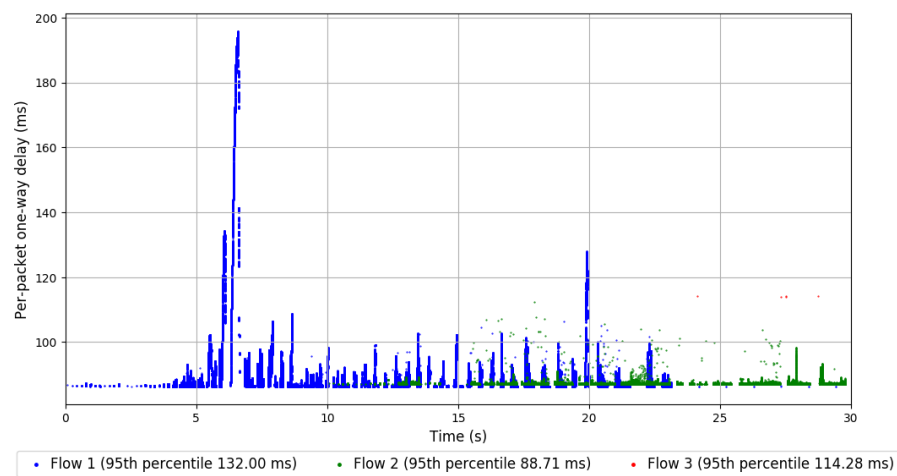
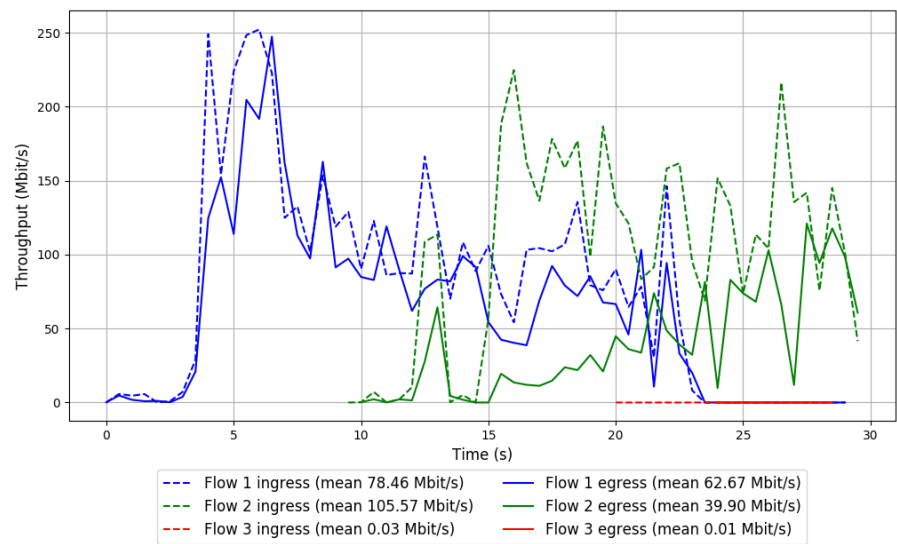
-- Flow 3:

Average throughput: 0.01 Mbit/s

95th percentile per-packet one-way delay: 114.276 ms

Loss rate: 76.19%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2017-08-12 03:50:44

End at: 2017-08-12 03:51:14

Below is generated by plot.py at 2017-08-12 06:45:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 78.93 Mbit/s

95th percentile per-packet one-way delay: 92.771 ms

Loss rate: 32.68%

-- Flow 1:

Average throughput: 78.92 Mbit/s

95th percentile per-packet one-way delay: 92.765 ms

Loss rate: 32.68%

-- Flow 2:

Average throughput: 0.01 Mbit/s

95th percentile per-packet one-way delay: 114.574 ms

Loss rate: 76.74%

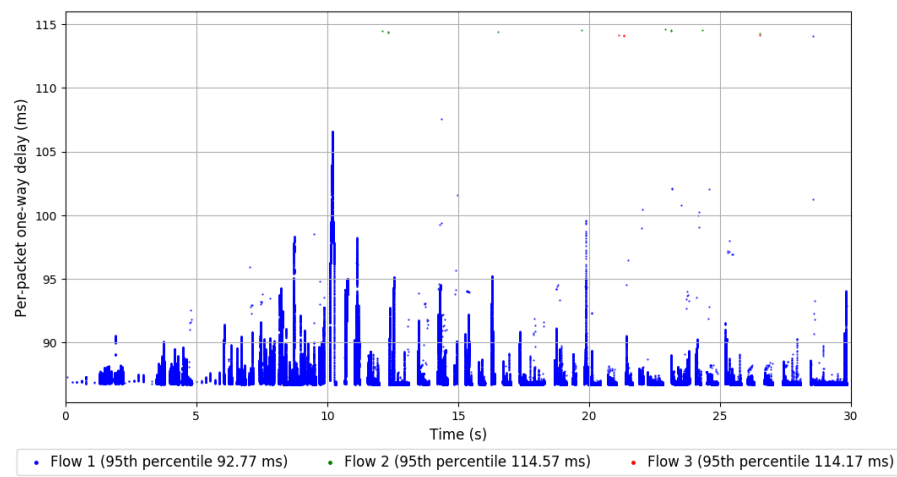
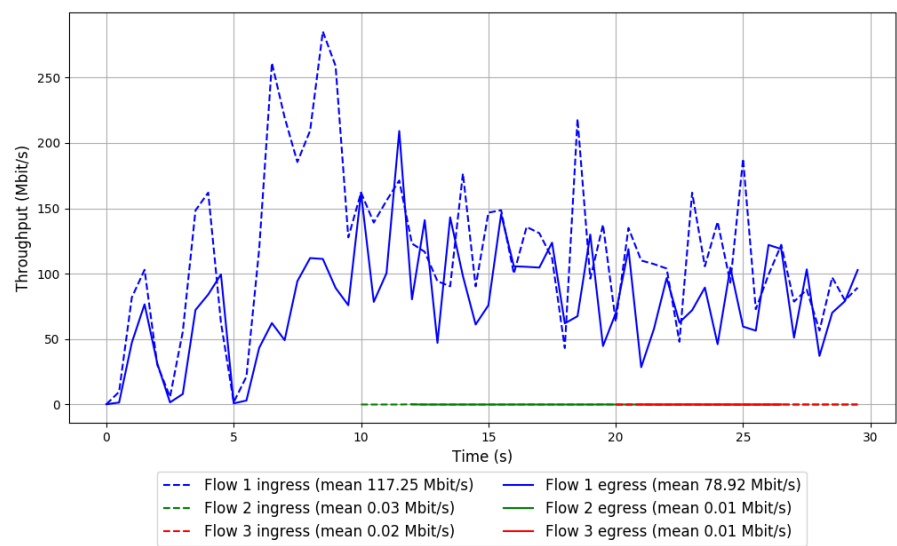
-- Flow 3:

Average throughput: 0.01 Mbit/s

95th percentile per-packet one-way delay: 114.171 ms

Loss rate: 78.95%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2017-08-12 04:02:29

End at: 2017-08-12 04:02:59

Below is generated by plot.py at 2017-08-12 06:46:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 101.62 Mbit/s

95th percentile per-packet one-way delay: 89.431 ms

Loss rate: 32.83%

-- Flow 1:

Average throughput: 71.94 Mbit/s

95th percentile per-packet one-way delay: 89.537 ms

Loss rate: 34.87%

-- Flow 2:

Average throughput: 35.07 Mbit/s

95th percentile per-packet one-way delay: 88.569 ms

Loss rate: 32.17%

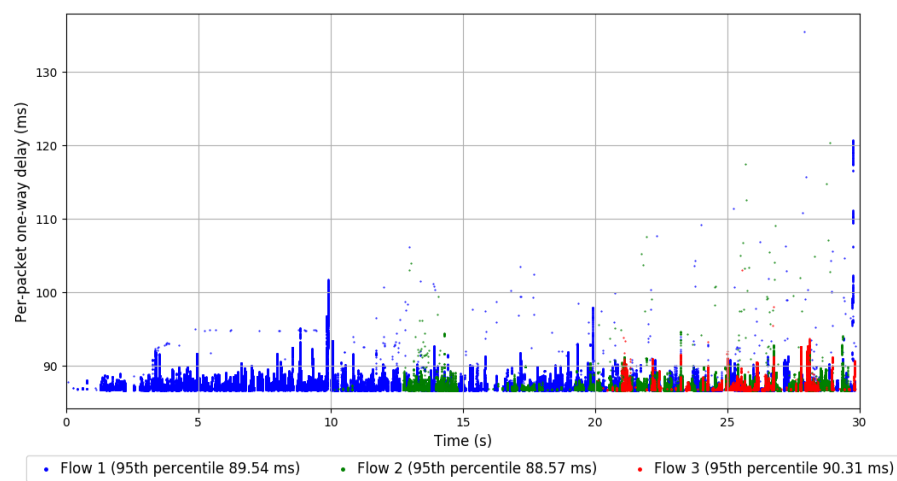
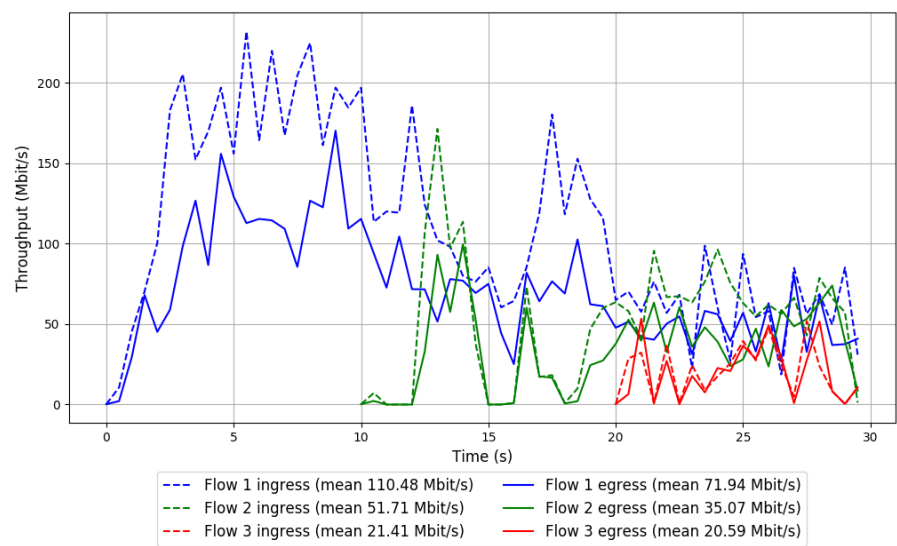
-- Flow 3:

Average throughput: 20.59 Mbit/s

95th percentile per-packet one-way delay: 90.307 ms

Loss rate: 3.81%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2017-08-12 04:15:01

End at: 2017-08-12 04:15:31

Below is generated by plot.py at 2017-08-12 06:46:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.16 Mbit/s

95th percentile per-packet one-way delay: 96.806 ms

Loss rate: 13.69%

-- Flow 1:

Average throughput: 46.59 Mbit/s

95th percentile per-packet one-way delay: 91.117 ms

Loss rate: 21.92%

-- Flow 2:

Average throughput: 61.37 Mbit/s

95th percentile per-packet one-way delay: 104.923 ms

Loss rate: 4.64%

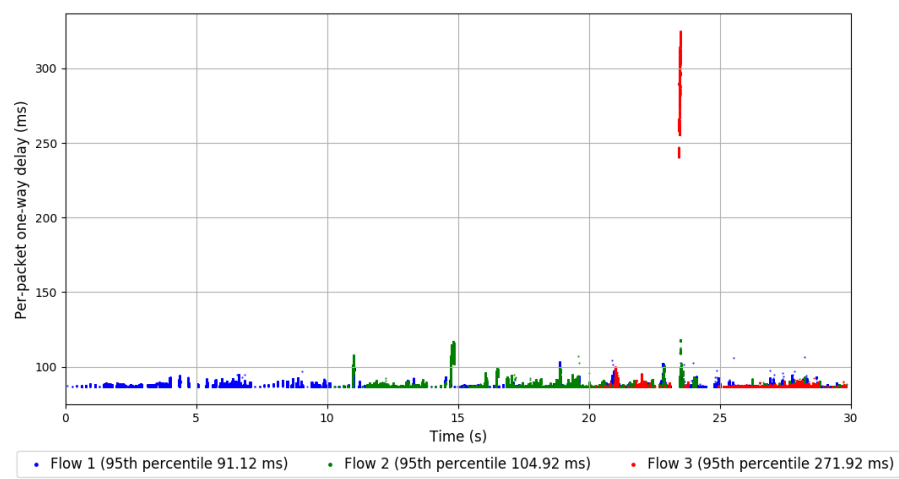
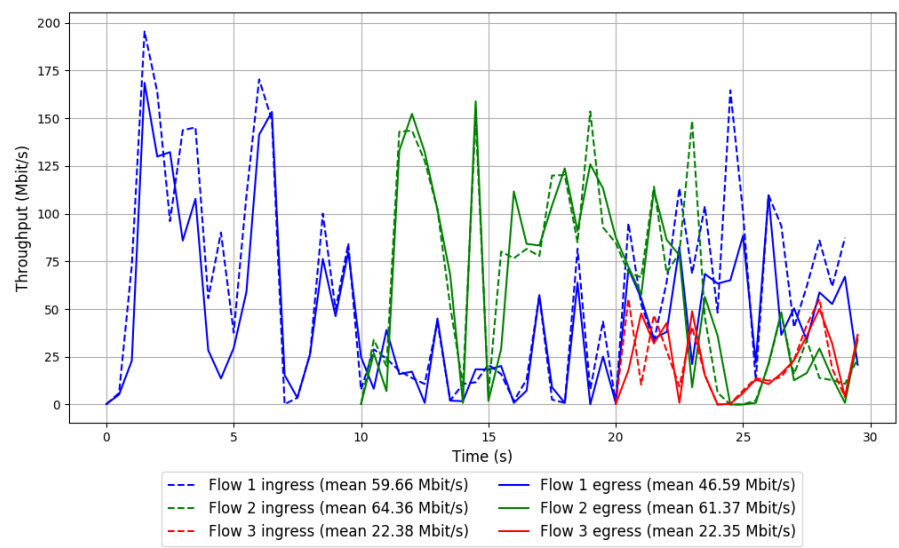
-- Flow 3:

Average throughput: 22.35 Mbit/s

95th percentile per-packet one-way delay: 271.922 ms

Loss rate: 0.14%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2017-08-12 04:27:46

End at: 2017-08-12 04:28:16

Below is generated by plot.py at 2017-08-12 06:46:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 109.55 Mbit/s

95th percentile per-packet one-way delay: 90.503 ms

Loss rate: 28.66%

-- Flow 1:

Average throughput: 74.57 Mbit/s

95th percentile per-packet one-way delay: 89.641 ms

Loss rate: 26.48%

-- Flow 2:

Average throughput: 38.92 Mbit/s

95th percentile per-packet one-way delay: 91.989 ms

Loss rate: 38.54%

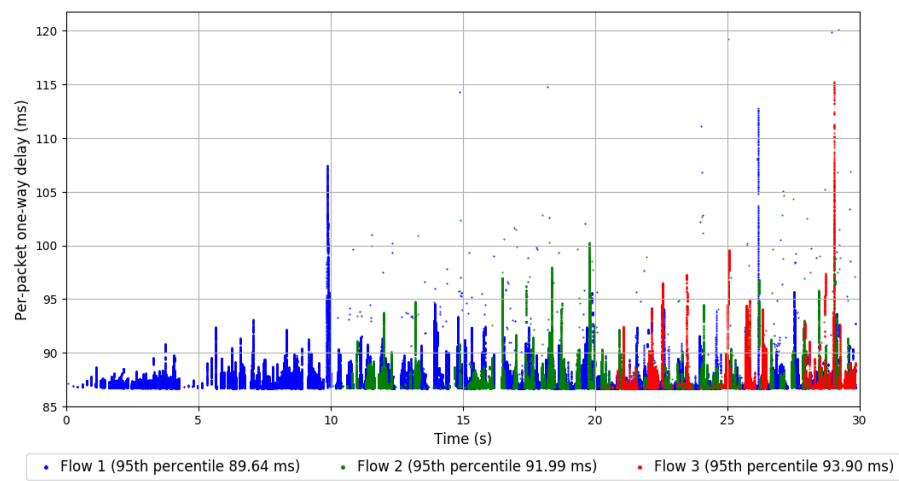
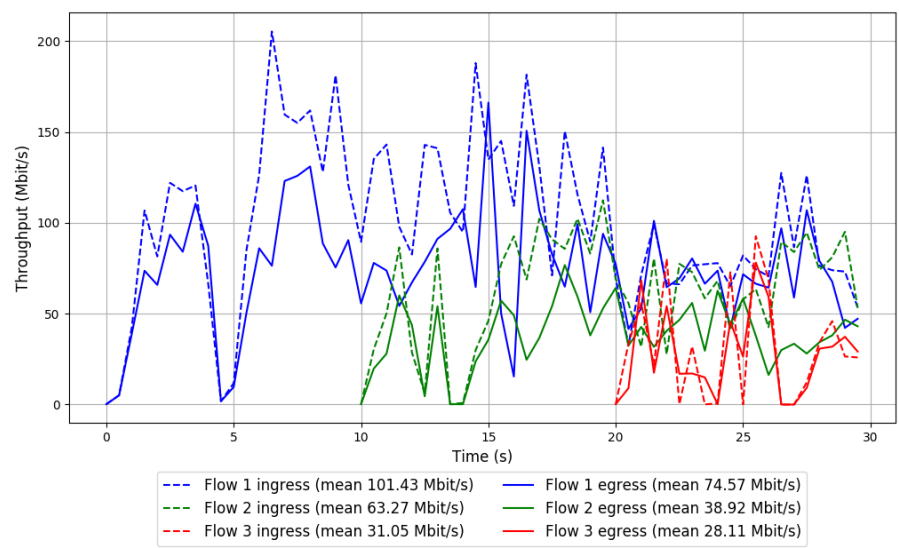
-- Flow 3:

Average throughput: 28.11 Mbit/s

95th percentile per-packet one-way delay: 93.898 ms

Loss rate: 9.46%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2017-08-12 04:40:20

End at: 2017-08-12 04:40:50

Below is generated by plot.py at 2017-08-12 06:46:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 123.31 Mbit/s

95th percentile per-packet one-way delay: 91.932 ms

Loss rate: 13.72%

-- Flow 1:

Average throughput: 90.83 Mbit/s

95th percentile per-packet one-way delay: 91.429 ms

Loss rate: 16.84%

-- Flow 2:

Average throughput: 38.52 Mbit/s

95th percentile per-packet one-way delay: 93.407 ms

Loss rate: 1.94%

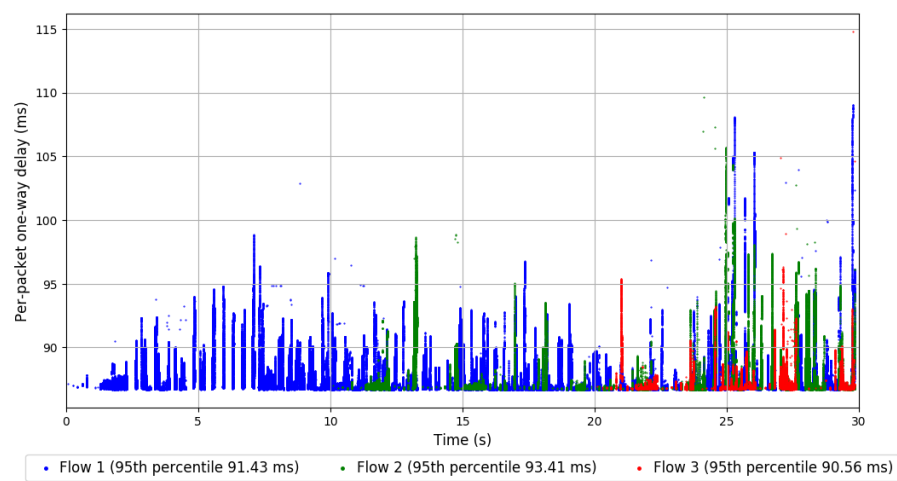
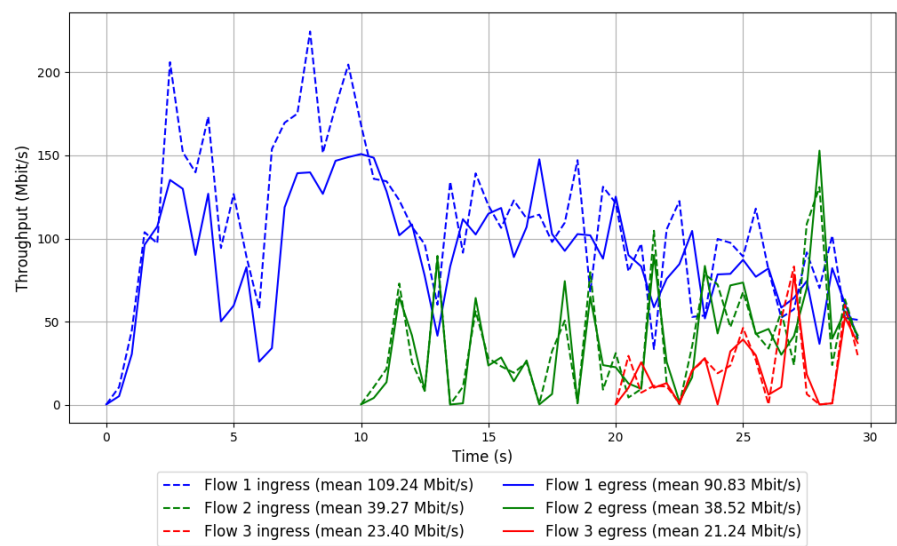
-- Flow 3:

Average throughput: 21.24 Mbit/s

95th percentile per-packet one-way delay: 90.561 ms

Loss rate: 9.23%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2017-08-12 04:52:46

End at: 2017-08-12 04:53:16

Below is generated by plot.py at 2017-08-12 06:47:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 111.28 Mbit/s

95th percentile per-packet one-way delay: 94.432 ms

Loss rate: 10.59%

-- Flow 1:

Average throughput: 79.63 Mbit/s

95th percentile per-packet one-way delay: 95.351 ms

Loss rate: 3.17%

-- Flow 2:

Average throughput: 39.16 Mbit/s

95th percentile per-packet one-way delay: 90.385 ms

Loss rate: 14.90%

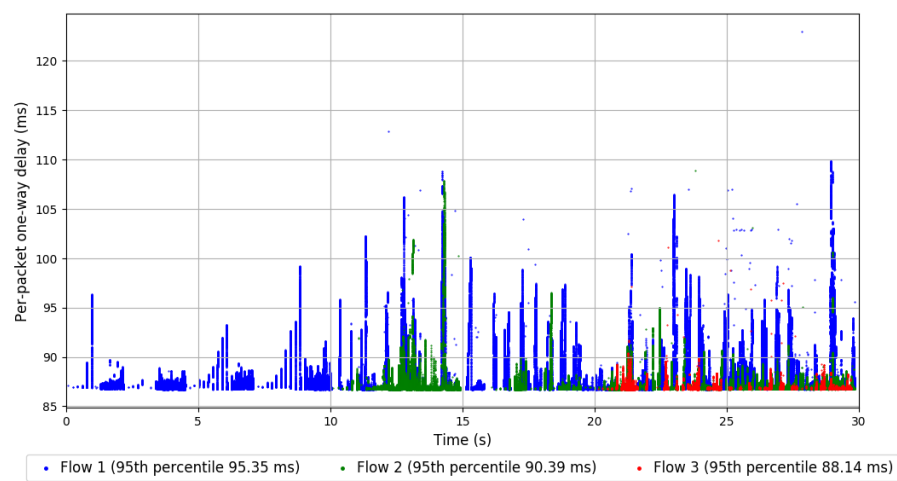
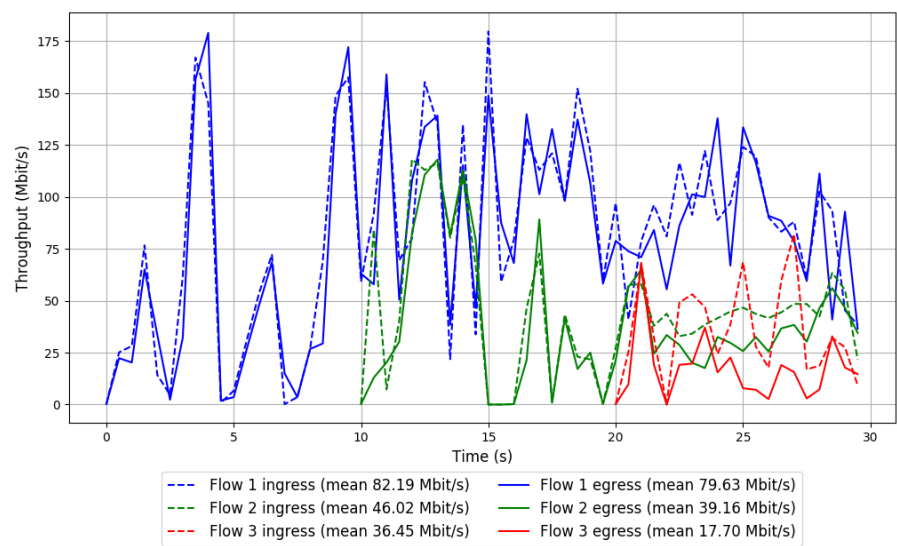
-- Flow 3:

Average throughput: 17.70 Mbit/s

95th percentile per-packet one-way delay: 88.139 ms

Loss rate: 51.43%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2017-08-12 05:05:18

End at: 2017-08-12 05:05:48

Below is generated by plot.py at 2017-08-12 06:47:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.25 Mbit/s

95th percentile per-packet one-way delay: 96.636 ms

Loss rate: 20.22%

-- Flow 1:

Average throughput: 43.03 Mbit/s

95th percentile per-packet one-way delay: 105.996 ms

Loss rate: 14.15%

-- Flow 2:

Average throughput: 35.46 Mbit/s

95th percentile per-packet one-way delay: 94.605 ms

Loss rate: 20.67%

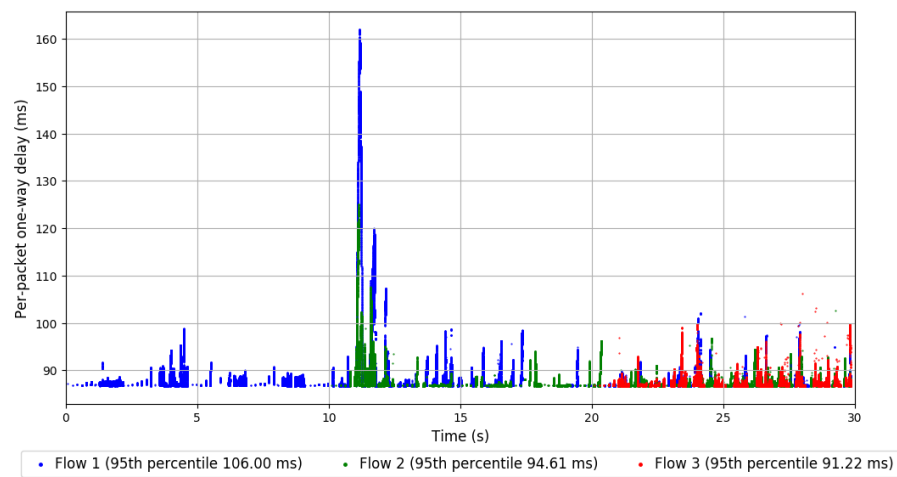
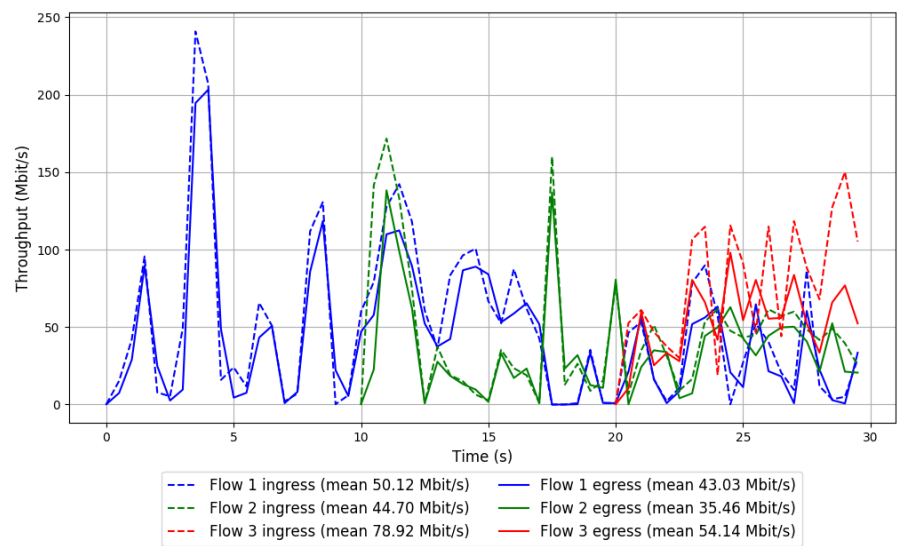
-- Flow 3:

Average throughput: 54.14 Mbit/s

95th percentile per-packet one-way delay: 91.215 ms

Loss rate: 31.47%

Run 10: Report of Verus — Data Link

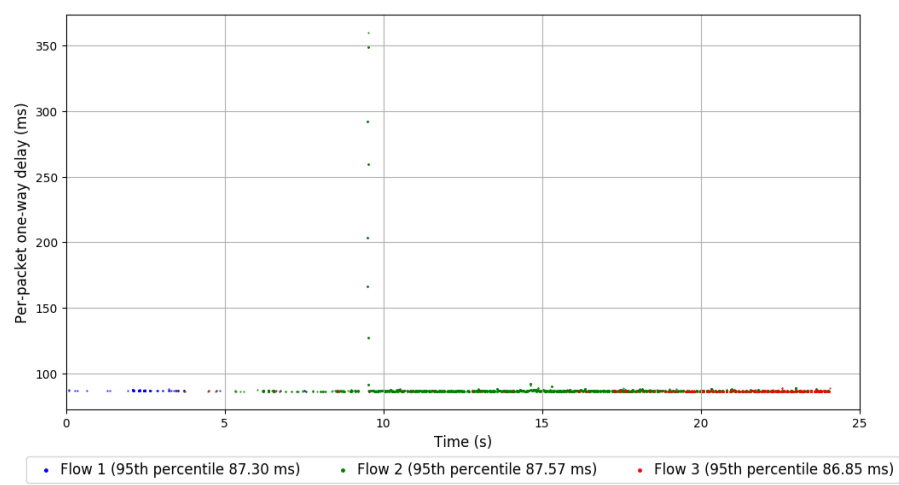
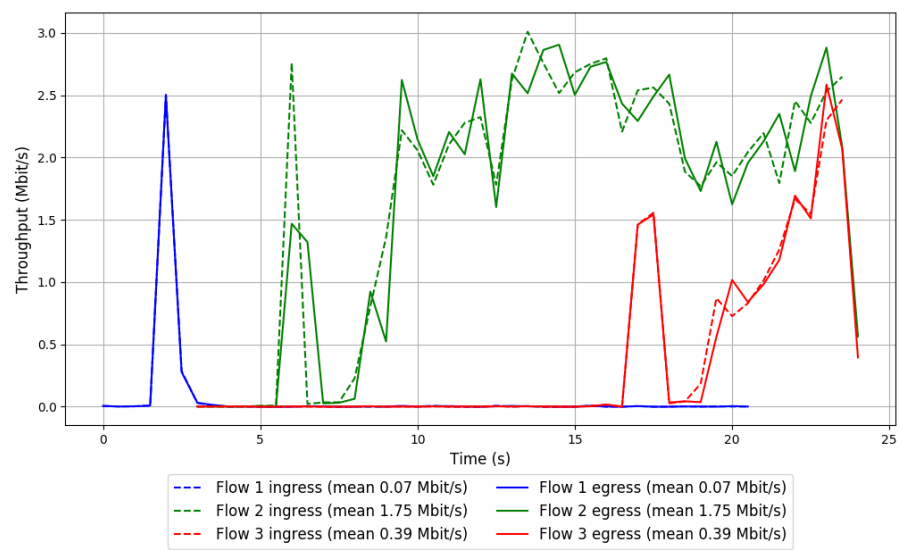


Run 1: Statistics of WebRTC media

Start at: 2017-08-12 03:10:39

End at: 2017-08-12 03:11:09

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2017-08-12 03:23:33

End at: 2017-08-12 03:24:03

Below is generated by plot.py at 2017-08-12 06:47:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 1.52 Mbit/s

95th percentile per-packet one-way delay: 87.314 ms

Loss rate: 1.17%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 86.901 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.60 Mbit/s

95th percentile per-packet one-way delay: 86.918 ms

Loss rate: 0.85%

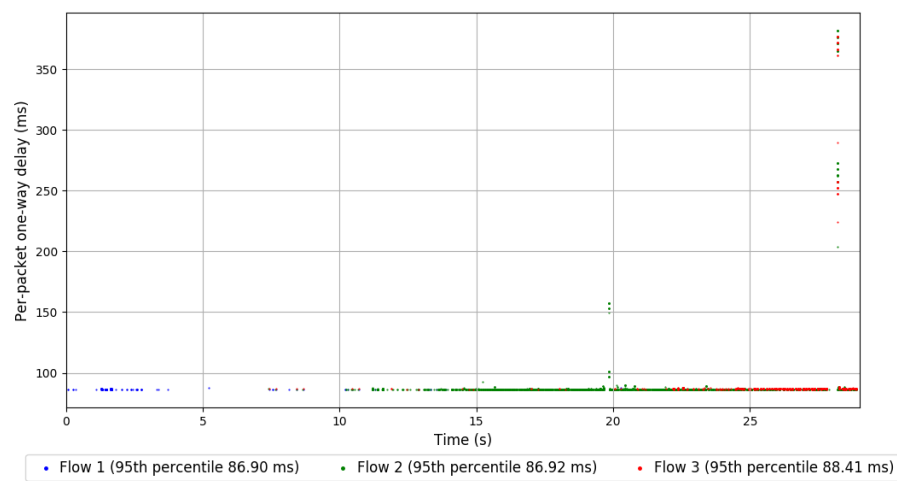
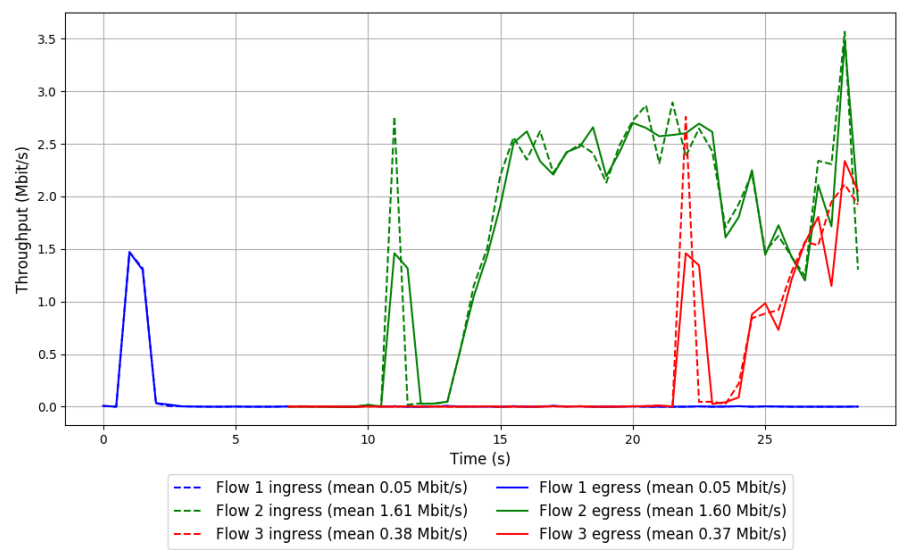
-- Flow 3:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 88.408 ms

Loss rate: 2.75%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2017-08-12 03:36:48

End at: 2017-08-12 03:37:18

Below is generated by plot.py at 2017-08-12 06:47:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 1.55 Mbit/s

95th percentile per-packet one-way delay: 114.508 ms

Loss rate: 0.44%

-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 114.334 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.72 Mbit/s

95th percentile per-packet one-way delay: 114.333 ms

Loss rate: 0.00%

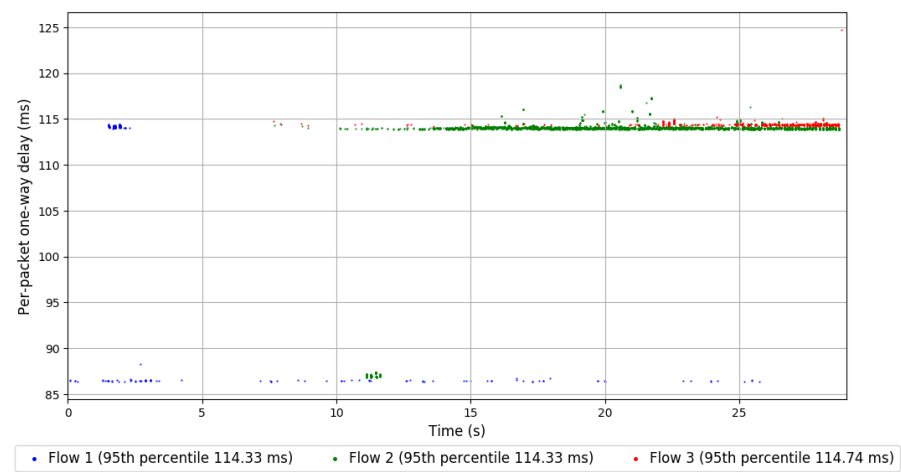
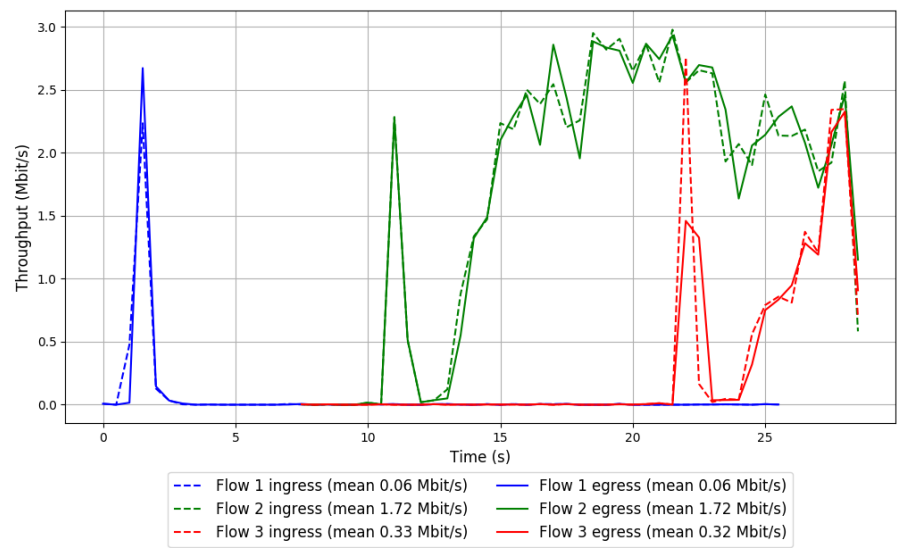
-- Flow 3:

Average throughput: 0.32 Mbit/s

95th percentile per-packet one-way delay: 114.744 ms

Loss rate: 2.78%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2017-08-12 03:50:00

End at: 2017-08-12 03:50:30

Below is generated by plot.py at 2017-08-12 06:47:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 1.59 Mbit/s

95th percentile per-packet one-way delay: 114.130 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 114.381 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.84 Mbit/s

95th percentile per-packet one-way delay: 87.276 ms

Loss rate: 0.00%

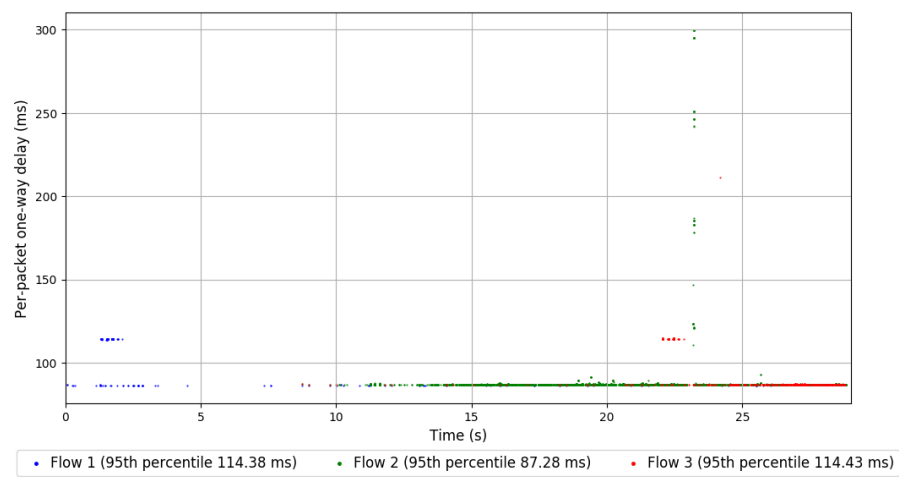
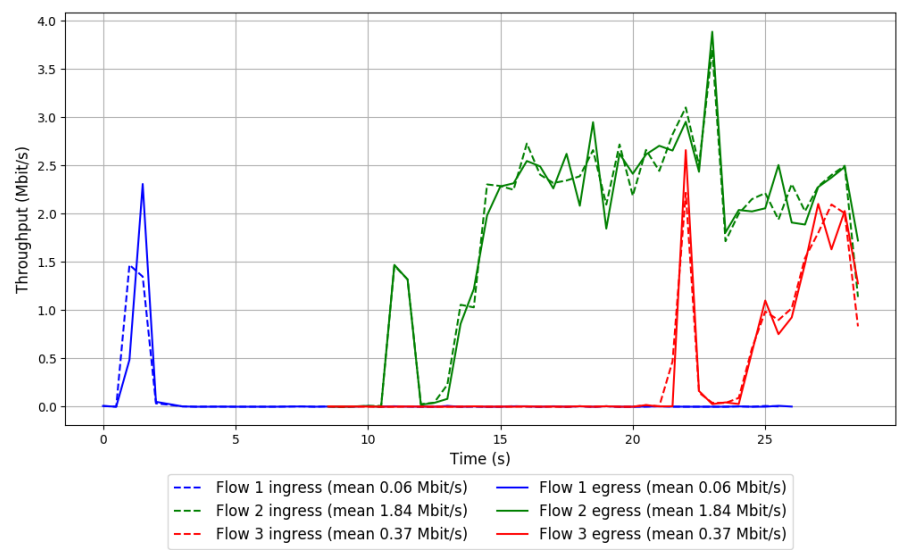
-- Flow 3:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 114.431 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2017-08-12 04:01:46

End at: 2017-08-12 04:02:16

Below is generated by plot.py at 2017-08-12 06:47:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 1.56 Mbit/s

95th percentile per-packet one-way delay: 114.147 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 114.973 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.75 Mbit/s

95th percentile per-packet one-way delay: 87.825 ms

Loss rate: 0.00%

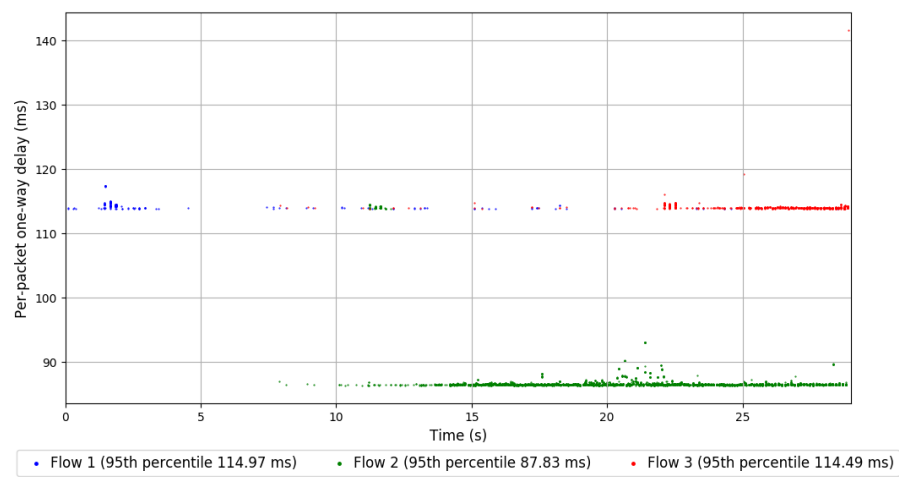
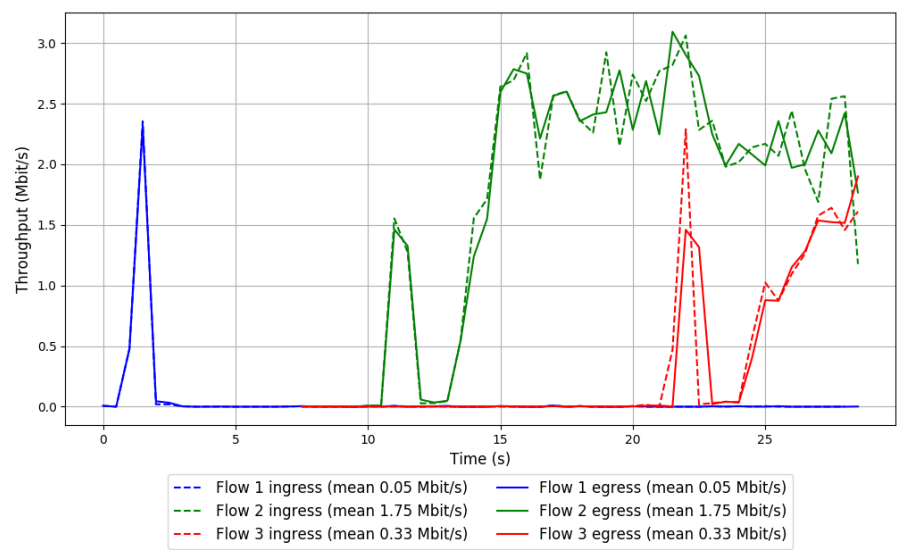
-- Flow 3:

Average throughput: 0.33 Mbit/s

95th percentile per-packet one-way delay: 114.488 ms

Loss rate: 0.41%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2017-08-12 04:14:17

End at: 2017-08-12 04:14:47

Below is generated by plot.py at 2017-08-12 06:47:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 1.52 Mbit/s

95th percentile per-packet one-way delay: 86.997 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 87.242 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.74 Mbit/s

95th percentile per-packet one-way delay: 86.811 ms

Loss rate: 0.00%

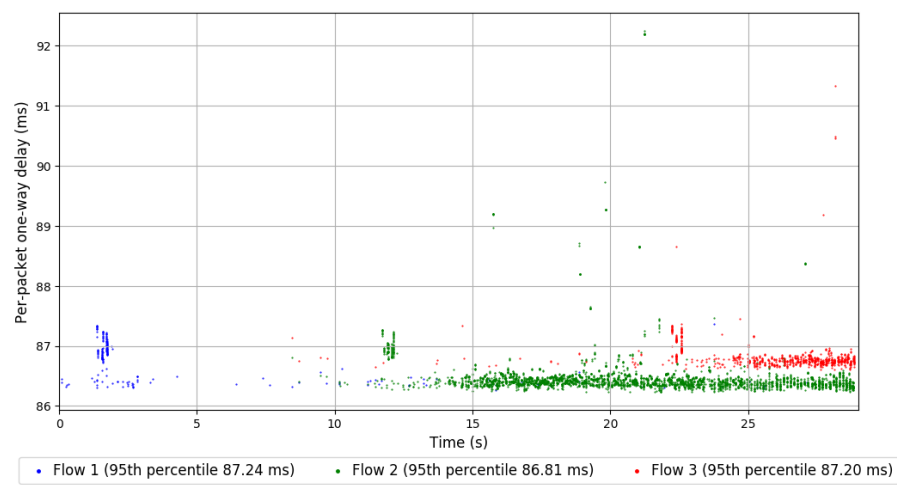
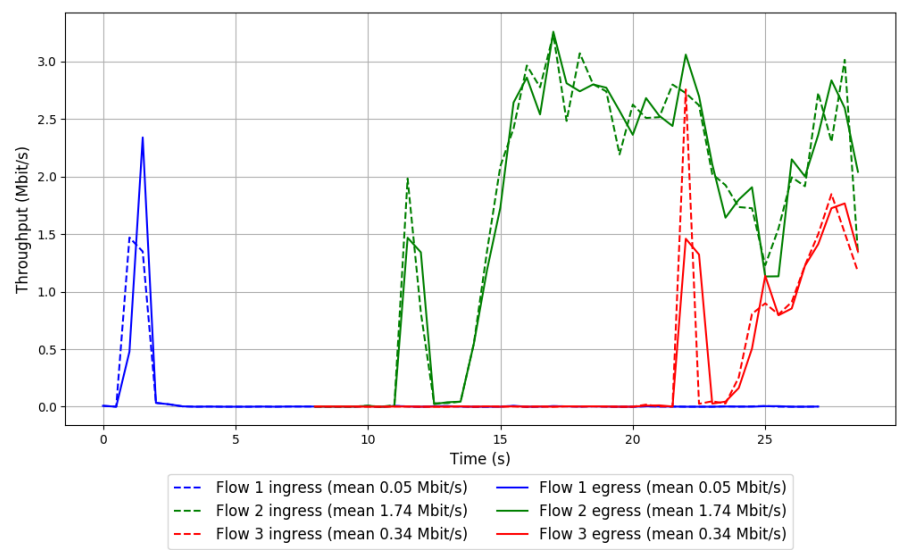
-- Flow 3:

Average throughput: 0.34 Mbit/s

95th percentile per-packet one-way delay: 87.198 ms

Loss rate: 0.01%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2017-08-12 04:27:03

End at: 2017-08-12 04:27:33

Below is generated by plot.py at 2017-08-12 06:47:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 1.72 Mbit/s

95th percentile per-packet one-way delay: 87.048 ms

Loss rate: 0.21%

-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 87.196 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 2.06 Mbit/s

95th percentile per-packet one-way delay: 86.740 ms

Loss rate: 0.25%

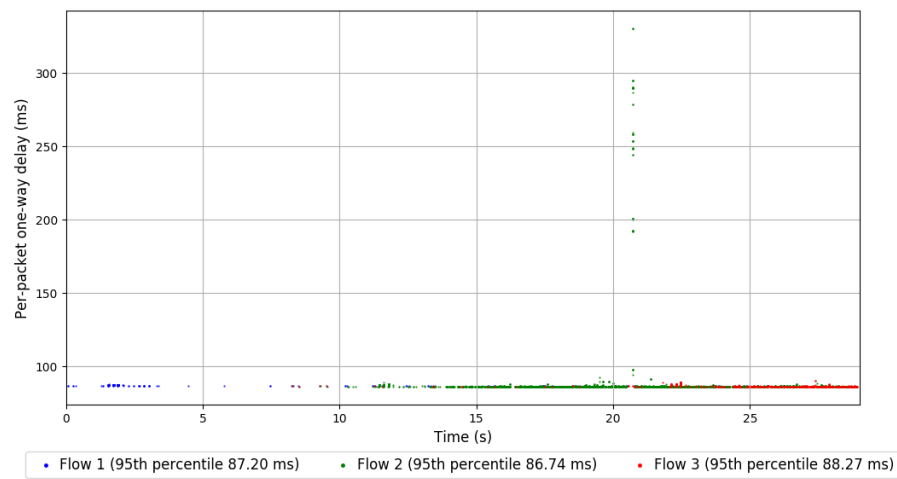
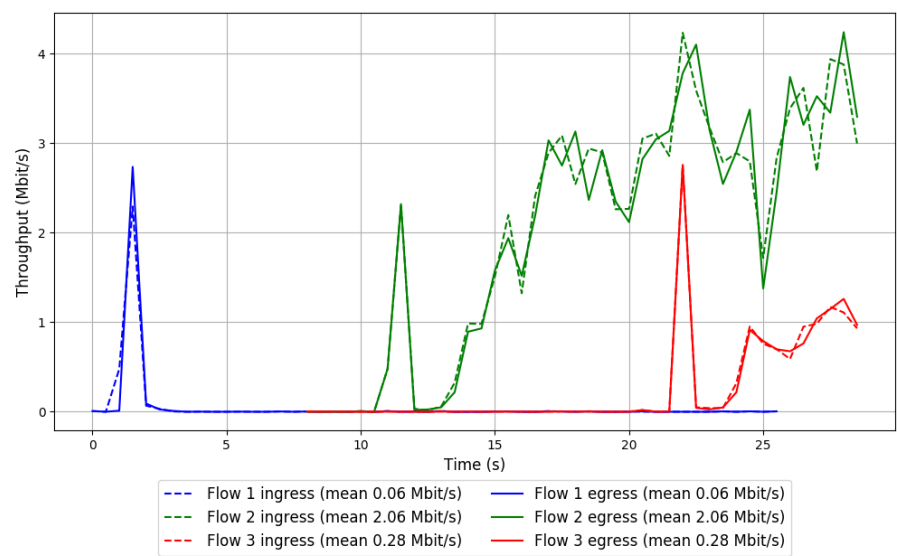
-- Flow 3:

Average throughput: 0.28 Mbit/s

95th percentile per-packet one-way delay: 88.267 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2017-08-12 04:39:36

End at: 2017-08-12 04:40:06

Below is generated by plot.py at 2017-08-12 06:47:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 1.60 Mbit/s

95th percentile per-packet one-way delay: 87.176 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 87.264 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.93 Mbit/s

95th percentile per-packet one-way delay: 87.118 ms

Loss rate: 0.00%

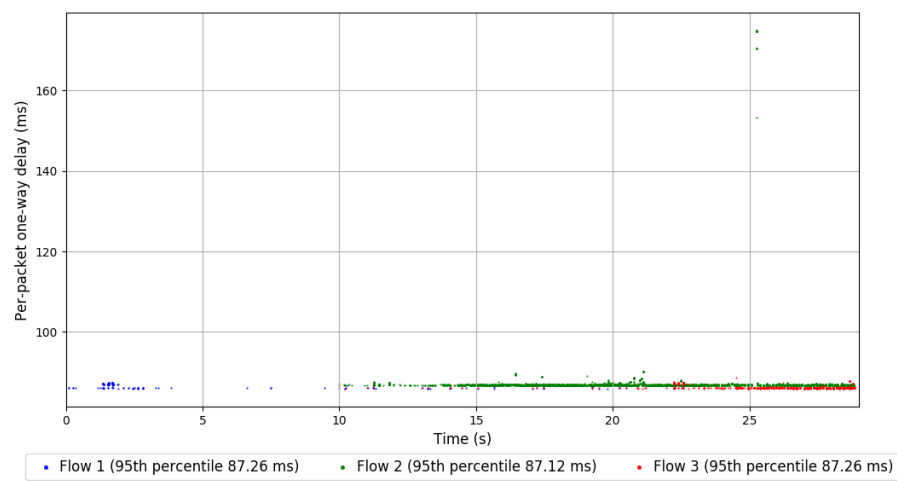
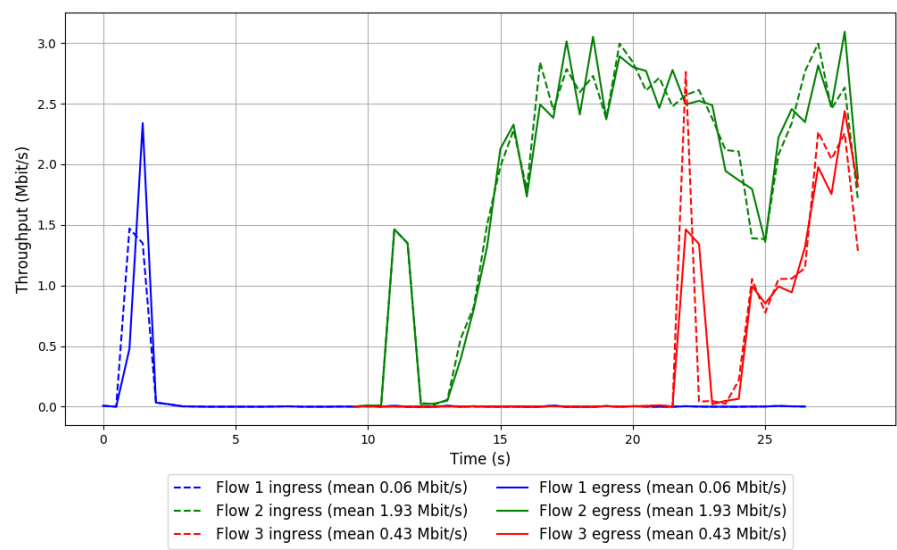
-- Flow 3:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 87.257 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2017-08-12 04:52:02

End at: 2017-08-12 04:52:32

Below is generated by plot.py at 2017-08-12 06:47:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 1.56 Mbit/s

95th percentile per-packet one-way delay: 87.240 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 87.386 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.79 Mbit/s

95th percentile per-packet one-way delay: 86.997 ms

Loss rate: 0.00%

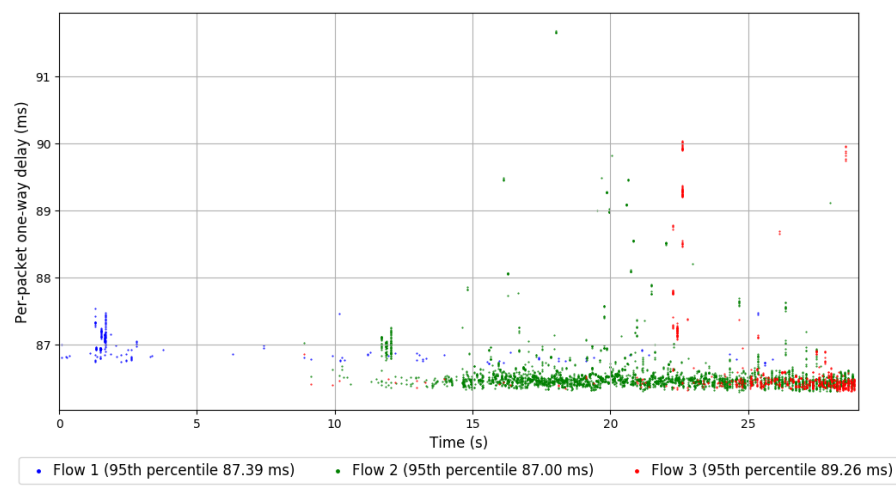
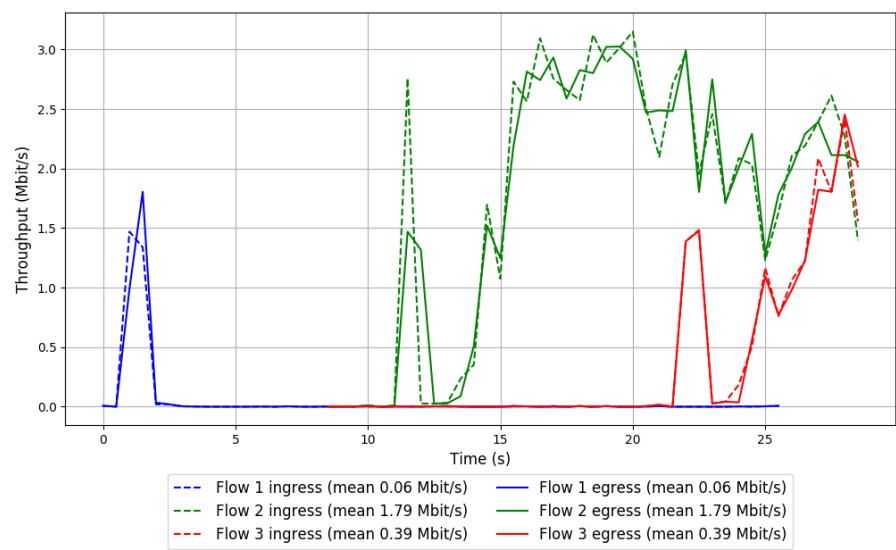
-- Flow 3:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 89.263 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2017-08-12 05:04:35

End at: 2017-08-12 05:05:05

Below is generated by plot.py at 2017-08-12 06:47:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 1.56 Mbit/s

95th percentile per-packet one-way delay: 87.104 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 87.234 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.63 Mbit/s

95th percentile per-packet one-way delay: 86.919 ms

Loss rate: 0.00%

-- Flow 3:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 87.642 ms

Loss rate: 0.01%

Run 10: Report of WebRTC media — Data Link

