

Pantheon Report

Generated at 2018-01-09 20:02:38 (UTC).

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

Repeated the test of 14 congestion control schemes 10 times.

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

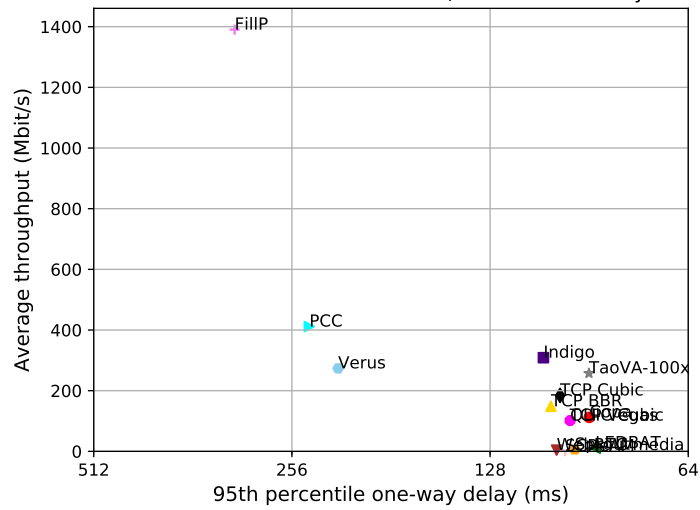
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

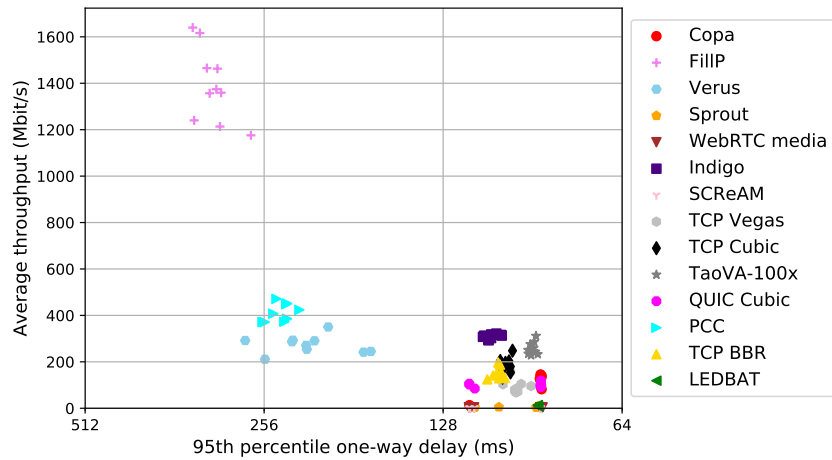
Git summary:

```
branch: master @ 56d1792c316a5efca3f2d21342905405fedffb48
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fixp @ ec9585325218d5048c4d4152fa42240af54c6e67
third_party/genericCC @ 80b516c448f795fd6e9675f7177b69c622f07da8
third_party/indigo @ b19f3730105f9aa95452552af924e3719b03cc55
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
  M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ fb1053193c2861da659ba9013db26744ccfcf993
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
  M receiver/src/buffer.h
  M receiver/src/core.cpp
  M sender/src/buffer.h
  M sender/src/core.cpp
third_party/proto-quick @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eaaeb30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
  M src/examples/cellsim.cc
  M src/examples/sproutbt2.cc
  M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/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	10	68.93	79.85	80.51	103.30	103.62	104.11	1.06	0.20	1.16
TCP Cubic	10	87.66	96.44	98.21	100.34	100.16	99.52	0.23	0.20	0.06
LEDBAT	2	7.35	3.44	2.69	88.69	88.45	88.32	0.53	1.32	2.37
PCC	9	366.59	55.98	23.21	240.74	237.08	211.78	1.88	1.58	2.12
QUIC Cubic	9	56.60	47.59	41.17	93.52	93.49	90.40	0.03	0.00	0.15
SCReAM	10	0.22	0.22	0.22	95.88	92.70	90.39	0.00	0.02	0.03
WebRTC media	10	2.13	1.34	0.52	98.54	87.61	93.11	0.04	0.00	0.11
Sprout	10	3.14	2.62	2.32	93.96	94.17	91.24	1.20	1.80	2.02
TaoVA-100x	10	167.98	104.50	93.10	89.22	97.12	102.75	0.06	0.07	0.01
TCP Vegas	10	46.23	53.22	58.81	94.98	95.37	93.01	0.34	0.60	0.29
Verus	10	171.48	116.67	77.75	211.00	220.69	219.87	1.53	2.13	3.85
Copa	10	67.29	52.86	40.93	90.44	95.99	93.41	0.01	0.02	4.66
FillP	10	695.48	674.56	744.63	296.16	316.40	315.20	2.49	5.05	6.33
Indigo	10	173.24	167.82	76.01	103.31	107.32	118.77	0.13	0.11	0.10

Run 1: Statistics of TCP BBR

Start at: 2018-01-09 15:00:52

End at: 2018-01-09 15:01:22

Below is generated by plot.py at 2018-01-09 18:52:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 132.42 Mbit/s

95th percentile per-packet one-way delay: 102.604 ms

Loss rate: 0.80%

-- Flow 1:

Average throughput: 57.61 Mbit/s

95th percentile per-packet one-way delay: 102.549 ms

Loss rate: 1.55%

-- Flow 2:

Average throughput: 76.23 Mbit/s

95th percentile per-packet one-way delay: 103.020 ms

Loss rate: 0.00%

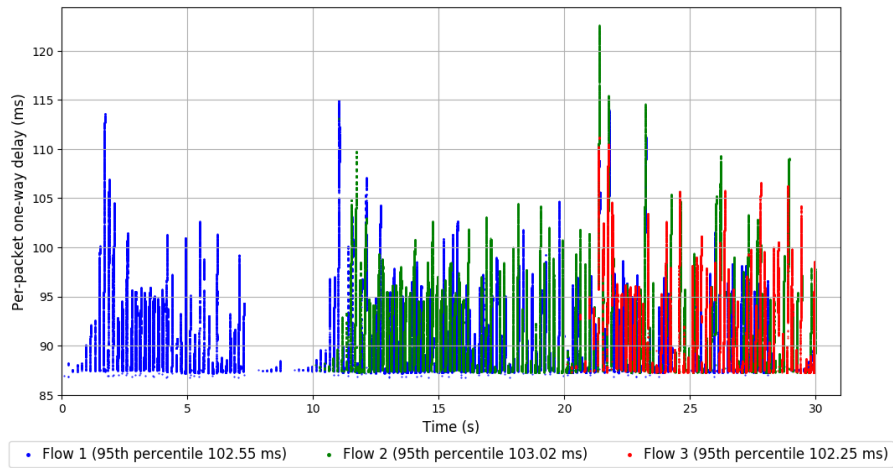
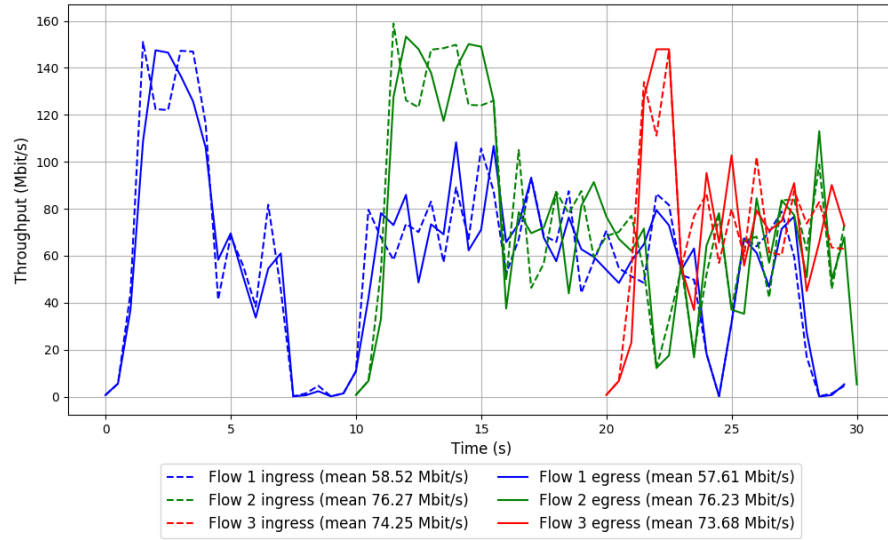
-- Flow 3:

Average throughput: 73.68 Mbit/s

95th percentile per-packet one-way delay: 102.255 ms

Loss rate: 0.66%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-01-09 15:15:30

End at: 2018-01-09 15:16:00

Below is generated by plot.py at 2018-01-09 18:52:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 129.20 Mbit/s

95th percentile per-packet one-way delay: 103.072 ms

Loss rate: 0.99%

-- Flow 1:

Average throughput: 60.24 Mbit/s

95th percentile per-packet one-way delay: 102.601 ms

Loss rate: 1.05%

-- Flow 2:

Average throughput: 61.70 Mbit/s

95th percentile per-packet one-way delay: 105.074 ms

Loss rate: 1.05%

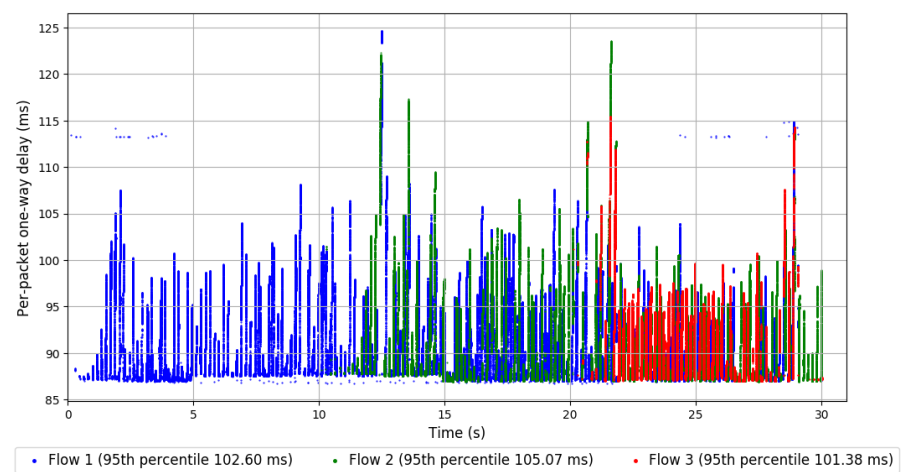
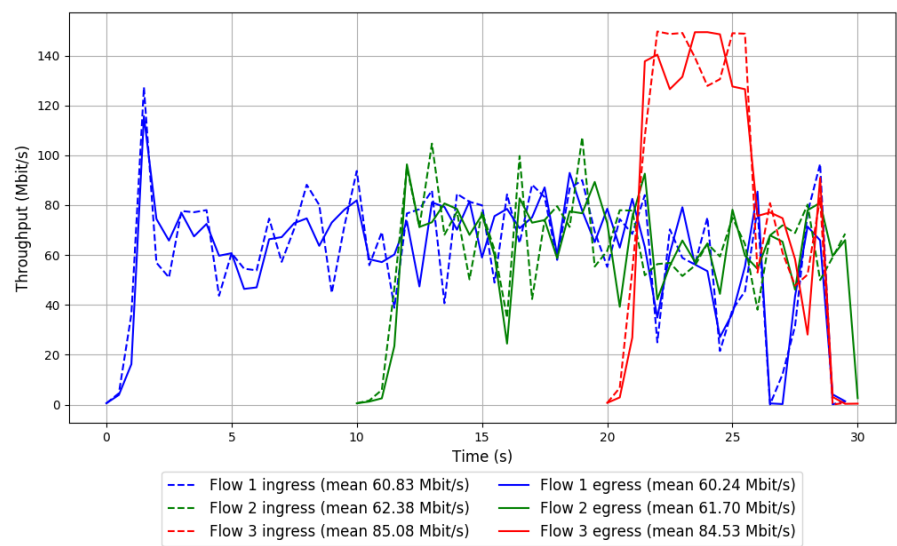
-- Flow 3:

Average throughput: 84.53 Mbit/s

95th percentile per-packet one-way delay: 101.383 ms

Loss rate: 0.78%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-01-09 15:30:10

End at: 2018-01-09 15:30:40

Below is generated by plot.py at 2018-01-09 18:52:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 131.05 Mbit/s

95th percentile per-packet one-way delay: 100.826 ms

Loss rate: 0.41%

-- Flow 1:

Average throughput: 62.35 Mbit/s

95th percentile per-packet one-way delay: 101.505 ms

Loss rate: 0.85%

-- Flow 2:

Average throughput: 72.88 Mbit/s

95th percentile per-packet one-way delay: 99.704 ms

Loss rate: 0.00%

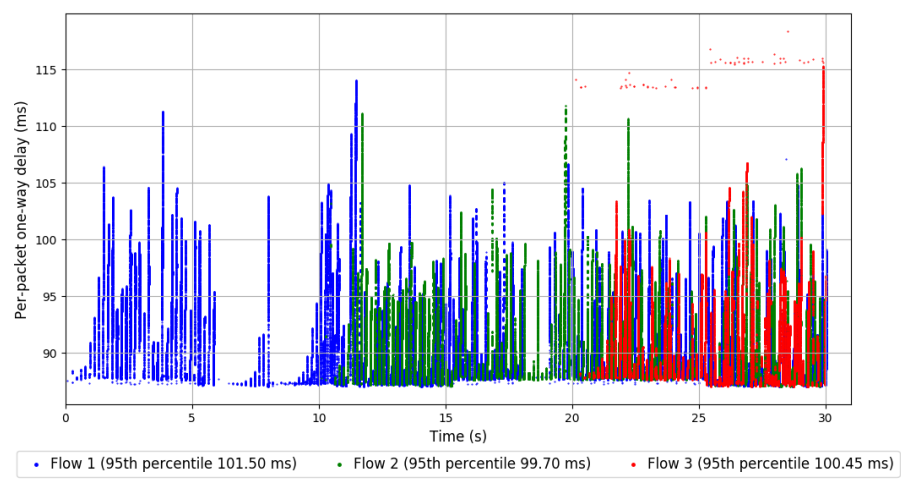
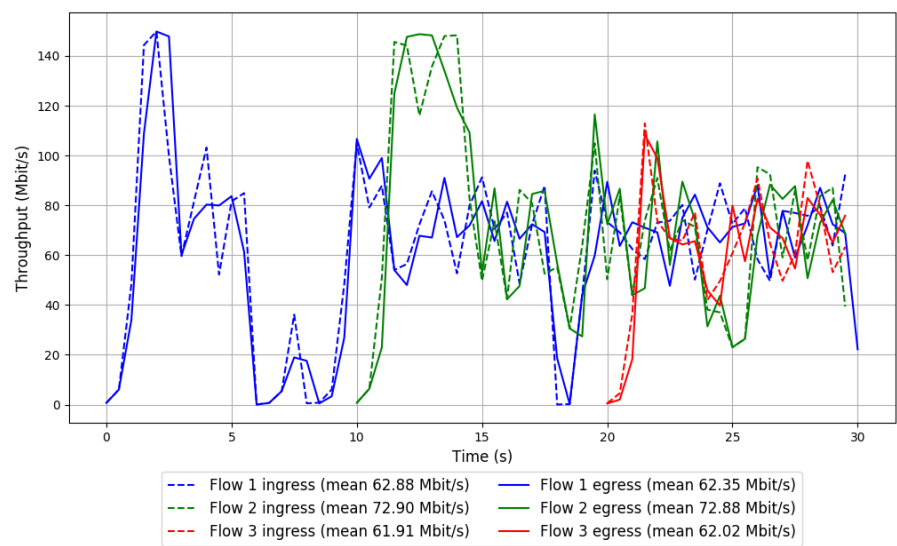
-- Flow 3:

Average throughput: 62.02 Mbit/s

95th percentile per-packet one-way delay: 100.448 ms

Loss rate: 0.00%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-01-09 15:44:55

End at: 2018-01-09 15:45:25

Below is generated by plot.py at 2018-01-09 18:52:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 158.93 Mbit/s

95th percentile per-packet one-way delay: 102.322 ms

Loss rate: 0.39%

-- Flow 1:

Average throughput: 73.69 Mbit/s

95th percentile per-packet one-way delay: 103.601 ms

Loss rate: 0.17%

-- Flow 2:

Average throughput: 87.91 Mbit/s

95th percentile per-packet one-way delay: 101.398 ms

Loss rate: 0.41%

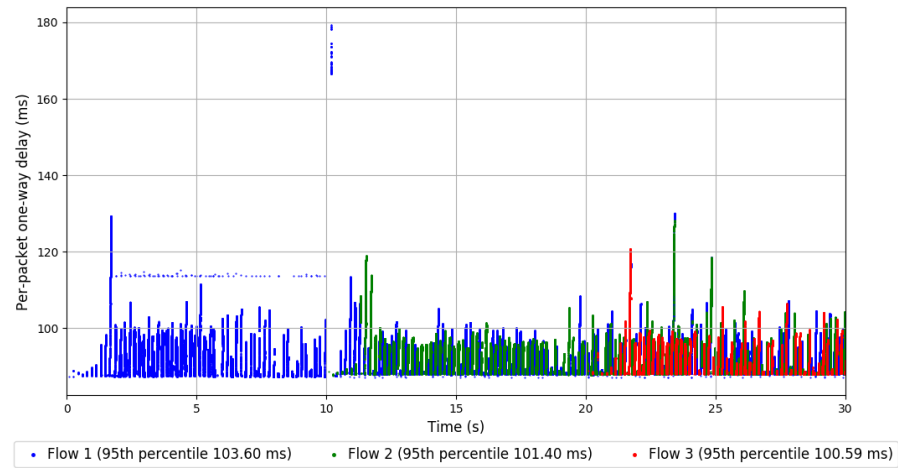
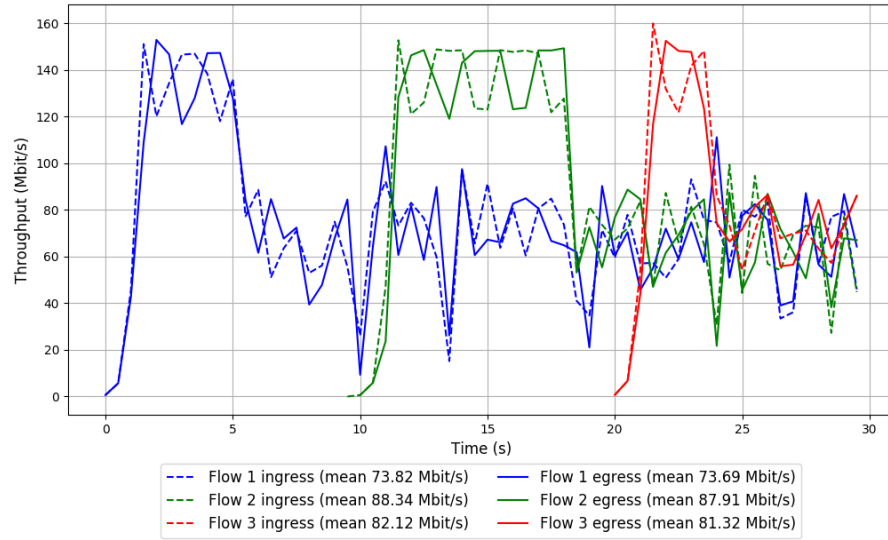
-- Flow 3:

Average throughput: 81.32 Mbit/s

95th percentile per-packet one-way delay: 100.594 ms

Loss rate: 0.97%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-01-09 15:59:30

End at: 2018-01-09 16:00:00

Below is generated by plot.py at 2018-01-09 18:52:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 146.65 Mbit/s

95th percentile per-packet one-way delay: 104.088 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 70.10 Mbit/s

95th percentile per-packet one-way delay: 104.495 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 81.44 Mbit/s

95th percentile per-packet one-way delay: 105.163 ms

Loss rate: 0.00%

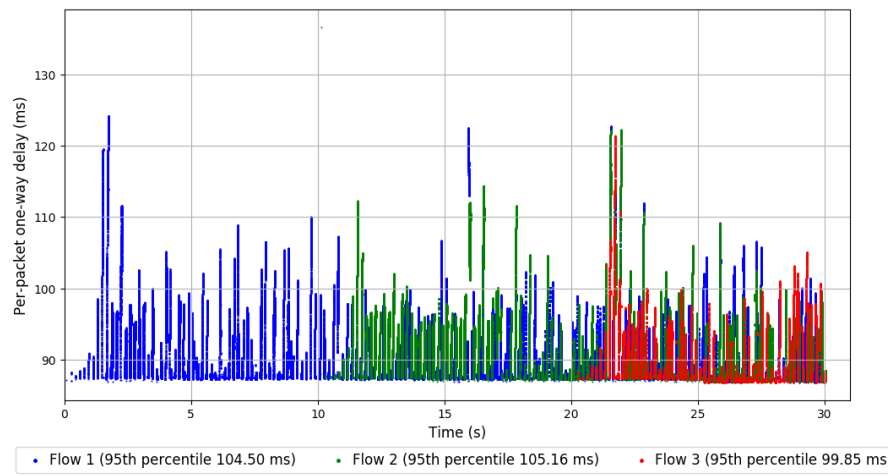
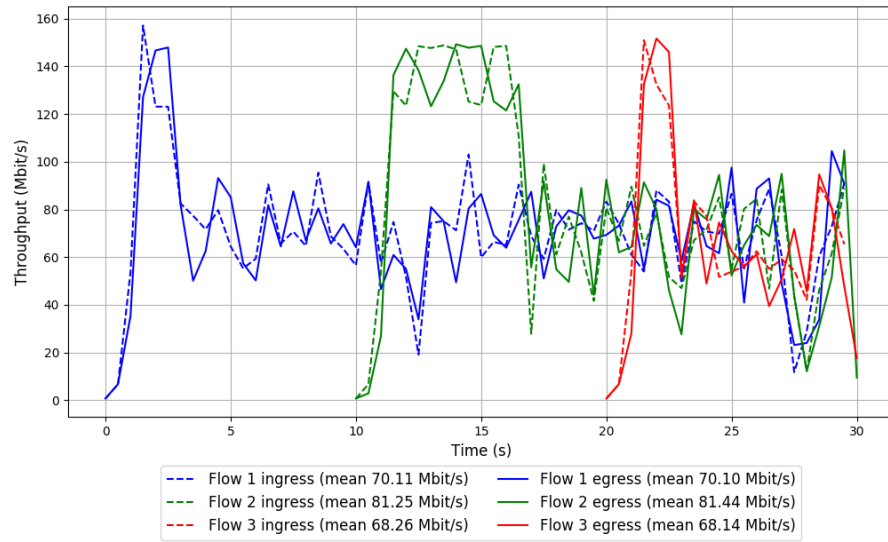
-- Flow 3:

Average throughput: 68.14 Mbit/s

95th percentile per-packet one-way delay: 99.850 ms

Loss rate: 0.18%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-01-09 16:14:09

End at: 2018-01-09 16:14:39

Below is generated by plot.py at 2018-01-09 18:53:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 197.12 Mbit/s

95th percentile per-packet one-way delay: 103.395 ms

Loss rate: 0.11%

-- Flow 1:

Average throughput: 104.19 Mbit/s

95th percentile per-packet one-way delay: 101.775 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 80.40 Mbit/s

95th percentile per-packet one-way delay: 103.132 ms

Loss rate: 0.00%

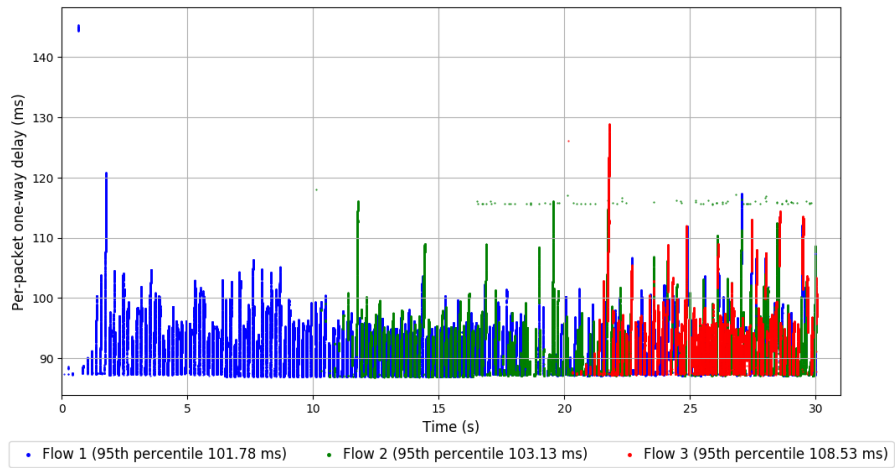
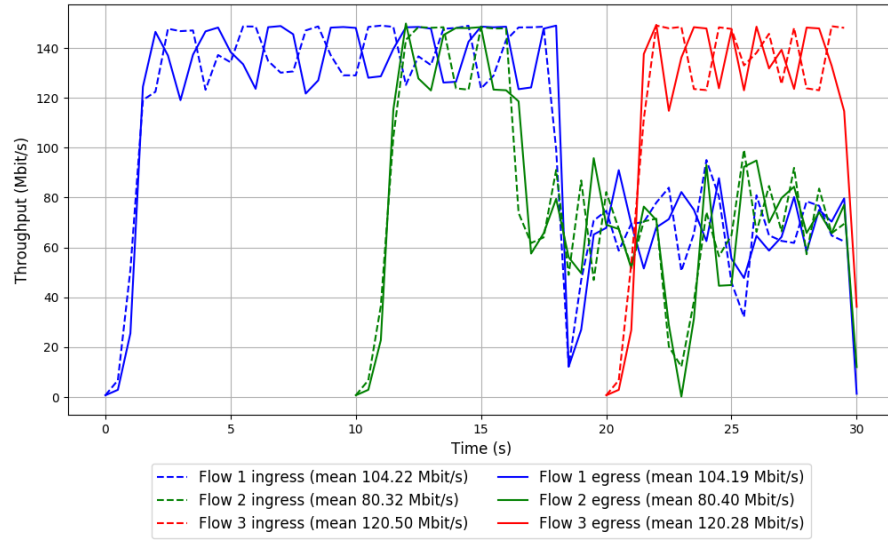
-- Flow 3:

Average throughput: 120.28 Mbit/s

95th percentile per-packet one-way delay: 108.528 ms

Loss rate: 0.55%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-01-09 16:29:03

End at: 2018-01-09 16:29:33

Below is generated by plot.py at 2018-01-09 18:53:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 124.46 Mbit/s

95th percentile per-packet one-way delay: 107.869 ms

Loss rate: 2.01%

-- Flow 1:

Average throughput: 51.61 Mbit/s

95th percentile per-packet one-way delay: 107.391 ms

Loss rate: 3.48%

-- Flow 2:

Average throughput: 76.96 Mbit/s

95th percentile per-packet one-way delay: 110.262 ms

Loss rate: 0.00%

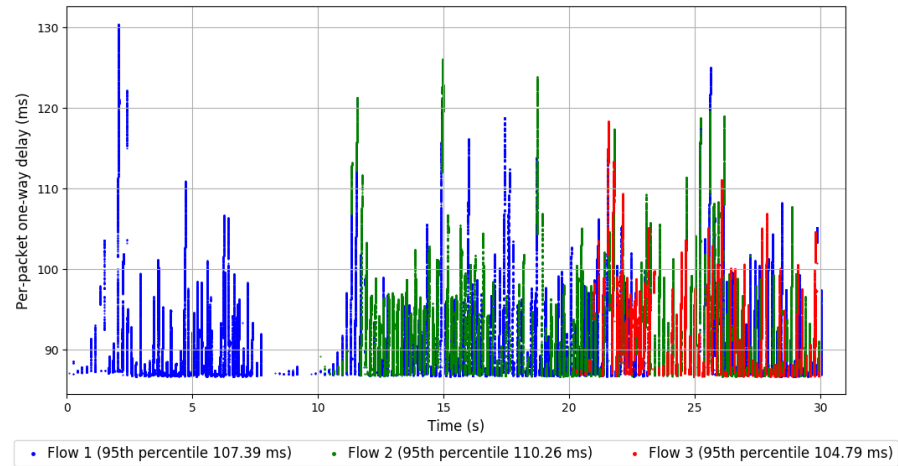
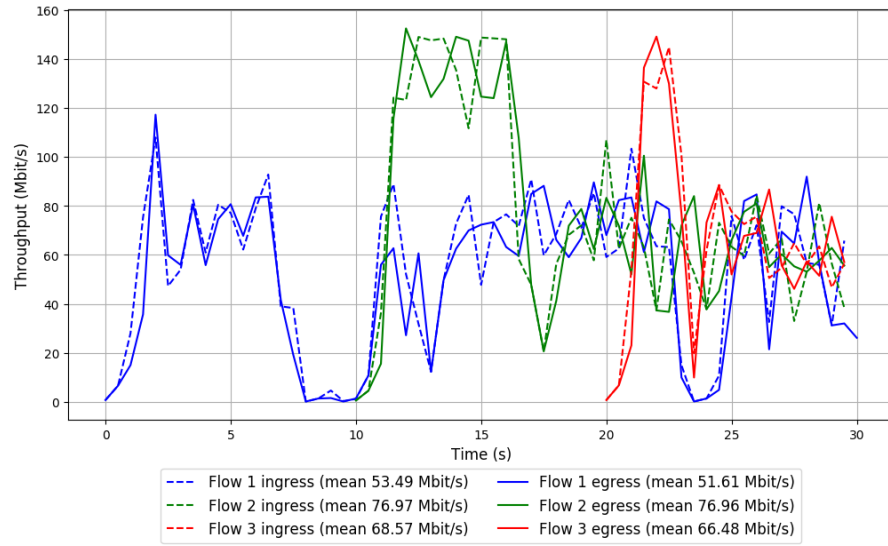
-- Flow 3:

Average throughput: 66.48 Mbit/s

95th percentile per-packet one-way delay: 104.788 ms

Loss rate: 3.03%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-01-09 16:43:40

End at: 2018-01-09 16:44:10

Below is generated by plot.py at 2018-01-09 18:53:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 188.36 Mbit/s

95th percentile per-packet one-way delay: 102.704 ms

Loss rate: 0.39%

-- Flow 1:

Average throughput: 92.96 Mbit/s

95th percentile per-packet one-way delay: 100.588 ms

Loss rate: 0.79%

-- Flow 2:

Average throughput: 105.99 Mbit/s

95th percentile per-packet one-way delay: 102.992 ms

Loss rate: 0.00%

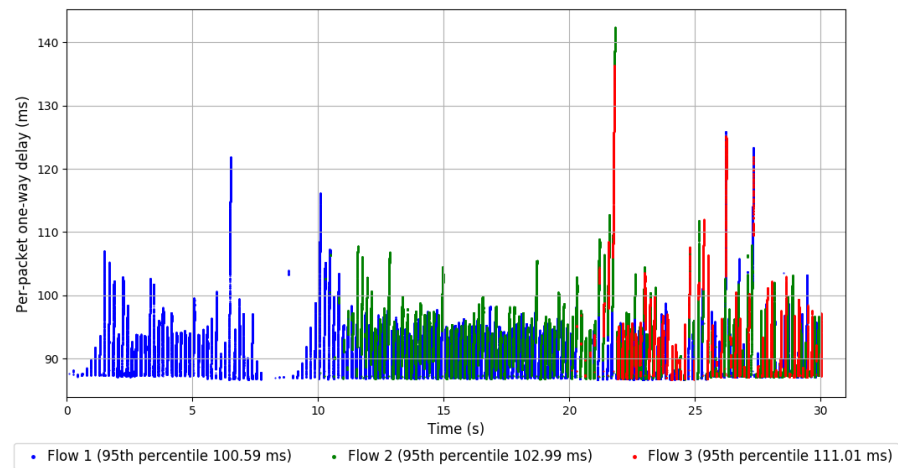
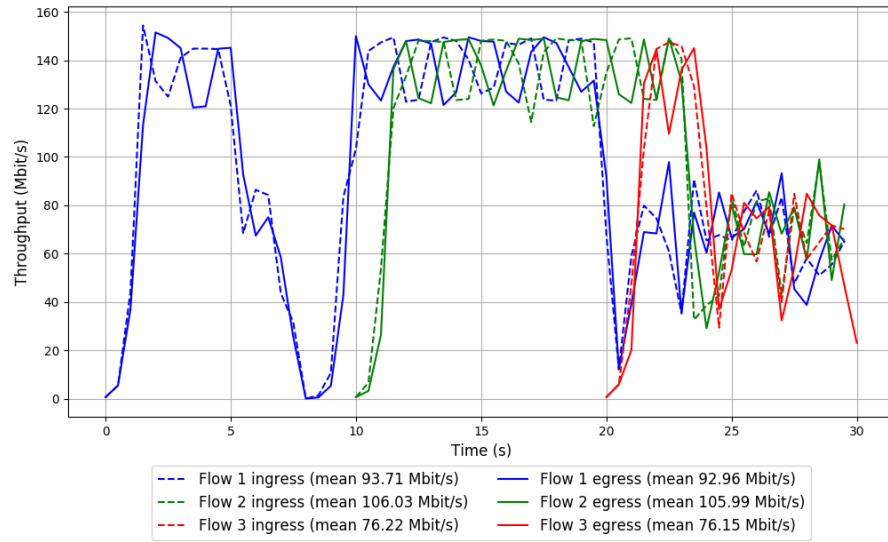
-- Flow 3:

Average throughput: 76.15 Mbit/s

95th percentile per-packet one-way delay: 111.007 ms

Loss rate: 0.00%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-01-09 16:58:37

End at: 2018-01-09 16:59:07

Below is generated by plot.py at 2018-01-09 18:54:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 134.85 Mbit/s

95th percentile per-packet one-way delay: 102.234 ms

Loss rate: 1.30%

-- Flow 1:

Average throughput: 58.51 Mbit/s

95th percentile per-packet one-way delay: 102.558 ms

Loss rate: 1.28%

-- Flow 2:

Average throughput: 88.24 Mbit/s

95th percentile per-packet one-way delay: 101.131 ms

Loss rate: 0.00%

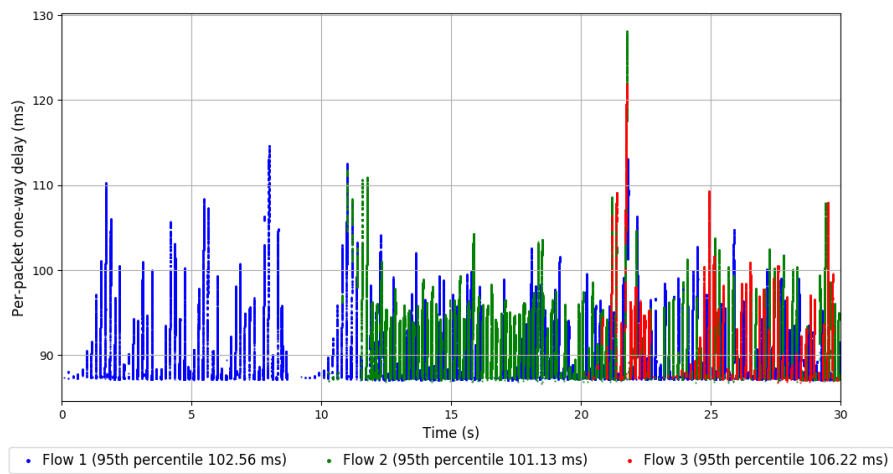
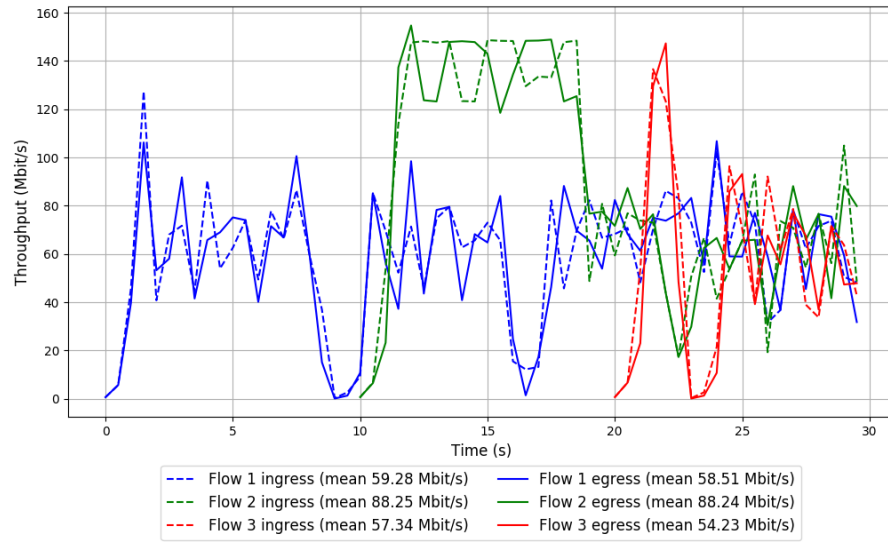
-- Flow 3:

Average throughput: 54.23 Mbit/s

95th percentile per-packet one-way delay: 106.225 ms

Loss rate: 5.43%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-01-09 17:13:13

End at: 2018-01-09 17:13:43

Below is generated by plot.py at 2018-01-09 18:54:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 141.23 Mbit/s

95th percentile per-packet one-way delay: 105.458 ms

Loss rate: 0.74%

-- Flow 1:

Average throughput: 58.01 Mbit/s

95th percentile per-packet one-way delay: 105.922 ms

Loss rate: 1.41%

-- Flow 2:

Average throughput: 66.72 Mbit/s

95th percentile per-packet one-way delay: 104.300 ms

Loss rate: 0.51%

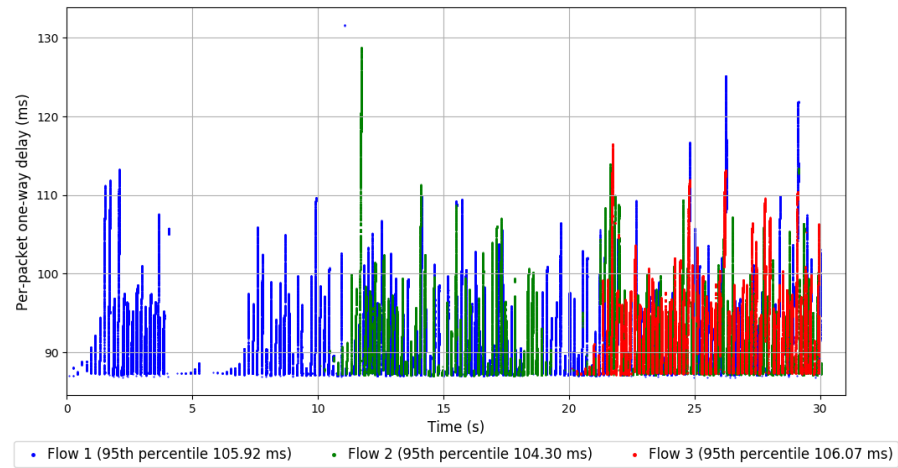
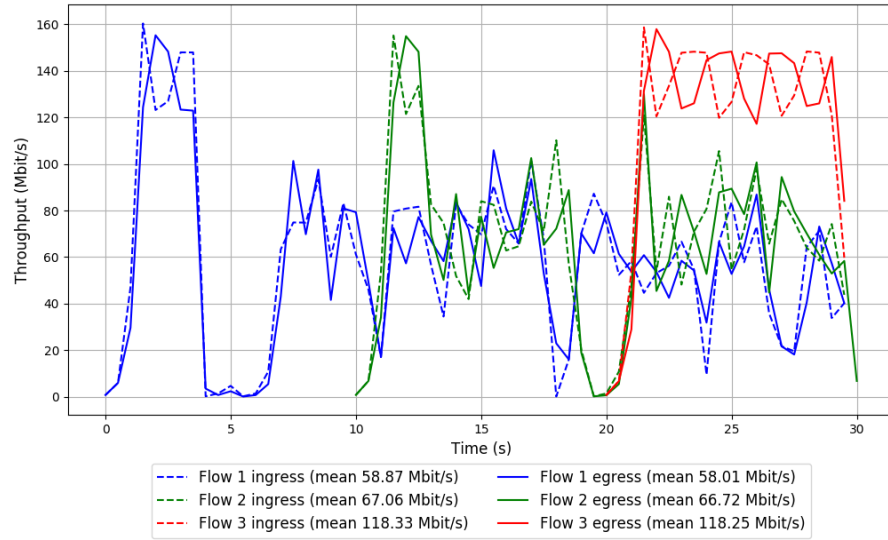
-- Flow 3:

Average throughput: 118.25 Mbit/s

95th percentile per-packet one-way delay: 106.069 ms

Loss rate: 0.00%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-01-09 15:04:55

End at: 2018-01-09 15:05:25

Below is generated by plot.py at 2018-01-09 18:54:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 166.55 Mbit/s

95th percentile per-packet one-way delay: 101.646 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 82.61 Mbit/s

95th percentile per-packet one-way delay: 101.468 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 86.26 Mbit/s

95th percentile per-packet one-way delay: 101.330 ms

Loss rate: 0.00%

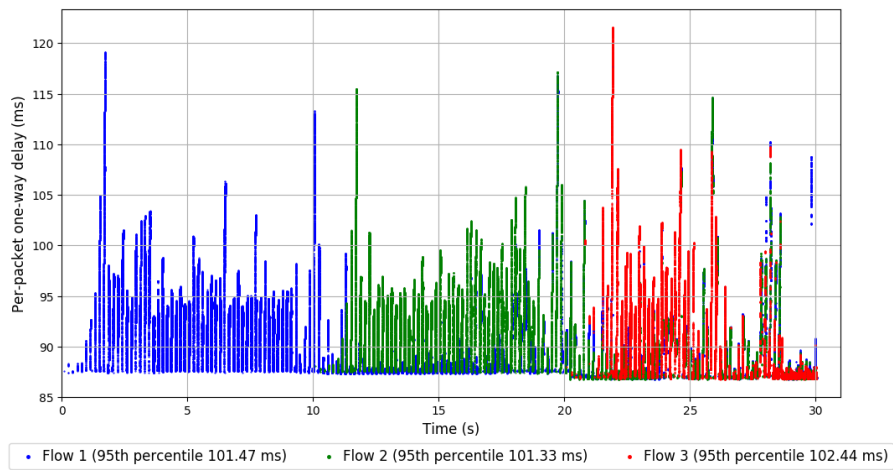
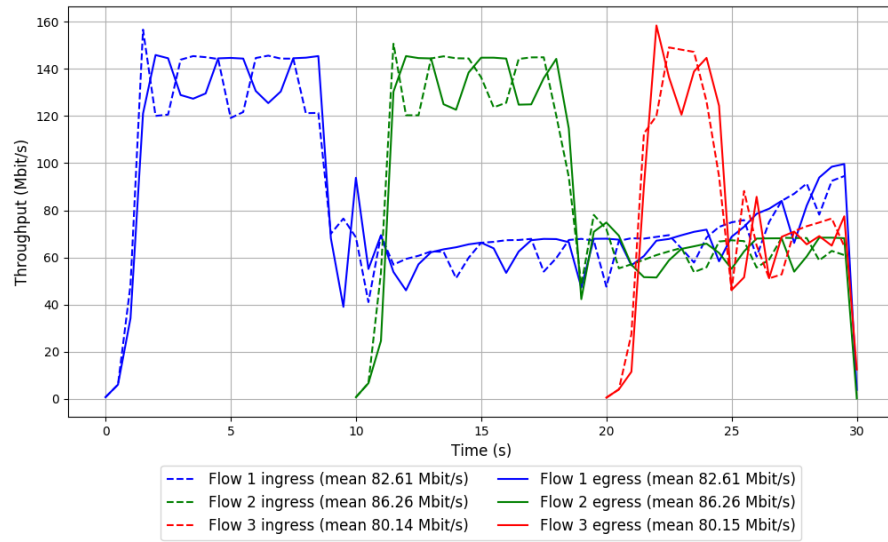
-- Flow 3:

Average throughput: 80.15 Mbit/s

95th percentile per-packet one-way delay: 102.437 ms

Loss rate: 0.00%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-01-09 15:19:29

End at: 2018-01-09 15:19:59

Below is generated by plot.py at 2018-01-09 18:54:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 154.23 Mbit/s

95th percentile per-packet one-way delay: 98.610 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 73.68 Mbit/s

95th percentile per-packet one-way delay: 99.331 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 119.89 Mbit/s

95th percentile per-packet one-way delay: 97.929 ms

Loss rate: 0.00%

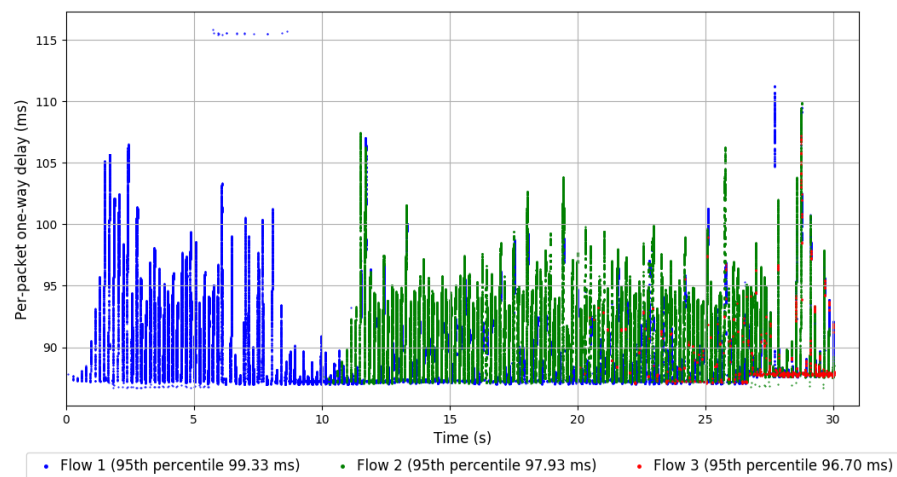
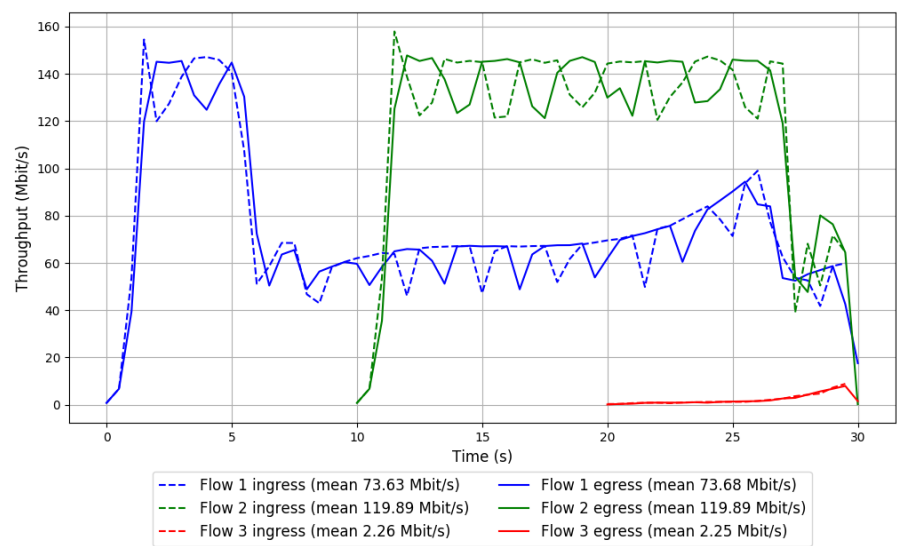
-- Flow 3:

Average throughput: 2.25 Mbit/s

95th percentile per-packet one-way delay: 96.696 ms

Loss rate: 0.48%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-01-09 15:34:09

End at: 2018-01-09 15:34:39

Below is generated by plot.py at 2018-01-09 18:55:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 203.72 Mbit/s

95th percentile per-packet one-way delay: 102.586 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 79.80 Mbit/s

95th percentile per-packet one-way delay: 101.170 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 127.28 Mbit/s

95th percentile per-packet one-way delay: 104.032 ms

Loss rate: 0.01%

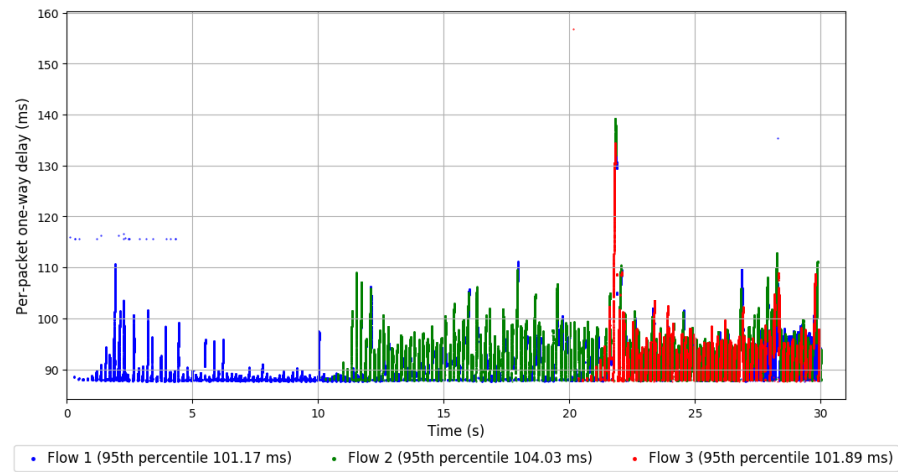
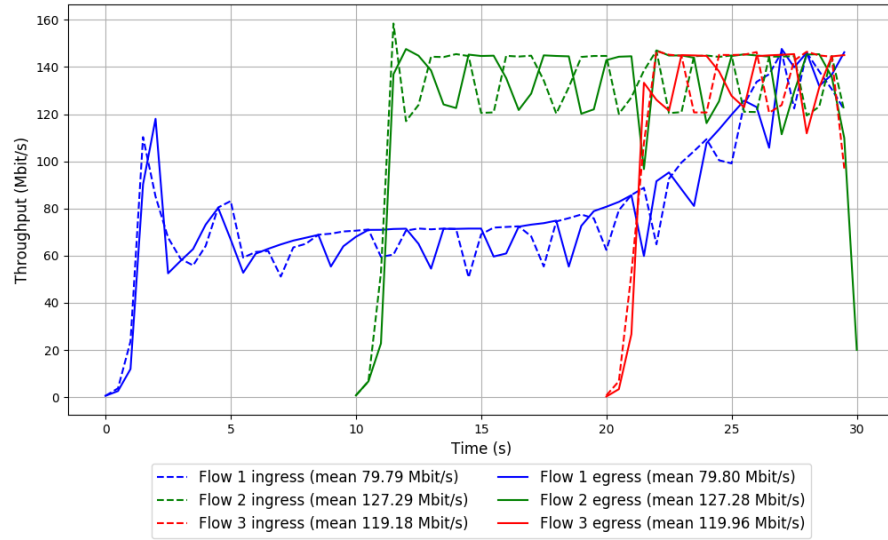
-- Flow 3:

Average throughput: 119.96 Mbit/s

95th percentile per-packet one-way delay: 101.891 ms

Loss rate: 0.00%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-01-09 15:48:59

End at: 2018-01-09 15:49:29

Below is generated by plot.py at 2018-01-09 18:55:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 179.84 Mbit/s

95th percentile per-packet one-way delay: 98.656 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 85.64 Mbit/s

95th percentile per-packet one-way delay: 97.429 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 82.71 Mbit/s

95th percentile per-packet one-way delay: 99.501 ms

Loss rate: 0.01%

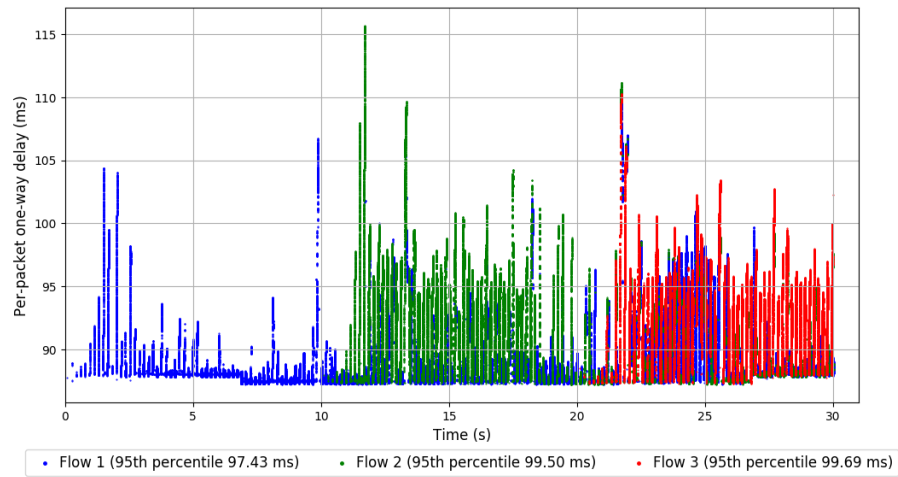
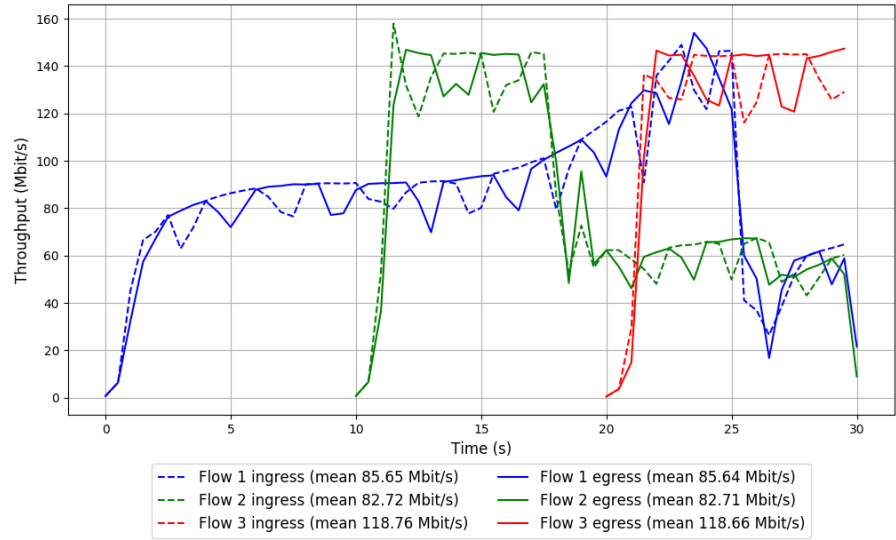
-- Flow 3:

Average throughput: 118.66 Mbit/s

95th percentile per-packet one-way delay: 99.692 ms

Loss rate: 0.00%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-01-09 16:03:31

End at: 2018-01-09 16:04:01

Below is generated by plot.py at 2018-01-09 18:56:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 195.69 Mbit/s

95th percentile per-packet one-way delay: 100.548 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 131.36 Mbit/s

95th percentile per-packet one-way delay: 100.929 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 63.85 Mbit/s

95th percentile per-packet one-way delay: 99.285 ms

Loss rate: 0.24%

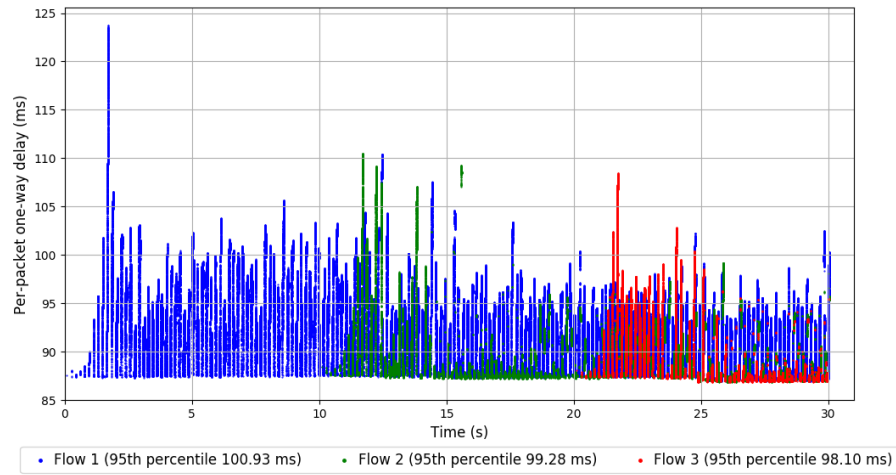
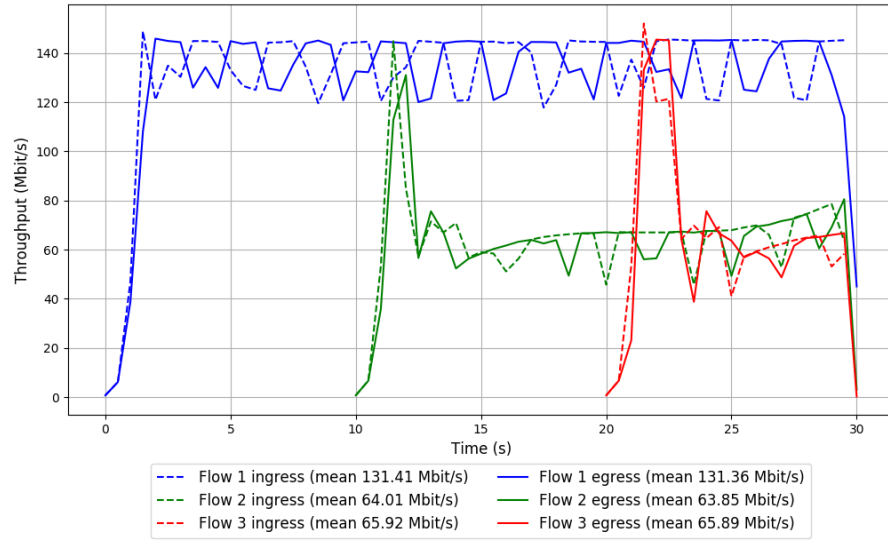
-- Flow 3:

Average throughput: 65.89 Mbit/s

95th percentile per-packet one-way delay: 98.097 ms

Loss rate: 0.02%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-01-09 16:18:15

End at: 2018-01-09 16:18:45

Below is generated by plot.py at 2018-01-09 18:56:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 131.74 Mbit/s

95th percentile per-packet one-way delay: 101.673 ms

Loss rate: 0.35%

-- Flow 1:

Average throughput: 55.54 Mbit/s

95th percentile per-packet one-way delay: 100.759 ms

Loss rate: 0.69%

-- Flow 2:

Average throughput: 58.81 Mbit/s

95th percentile per-packet one-way delay: 101.970 ms

Loss rate: 0.11%

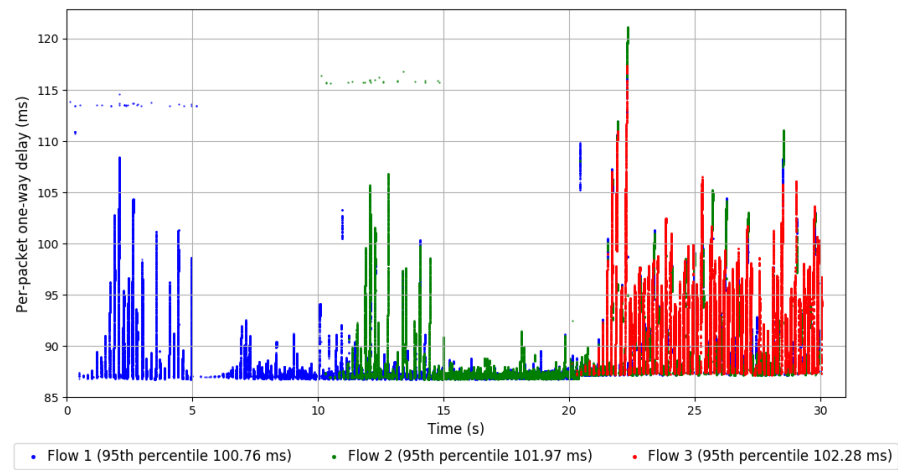
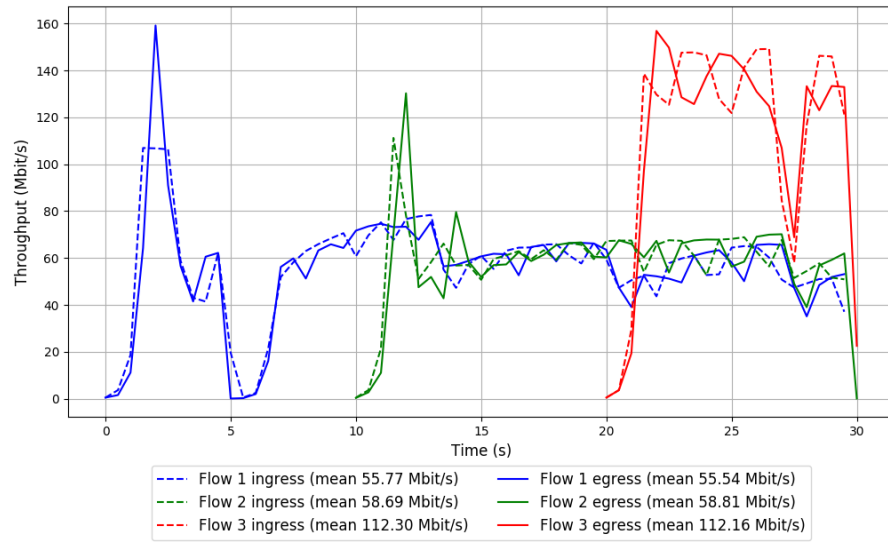
-- Flow 3:

Average throughput: 112.16 Mbit/s

95th percentile per-packet one-way delay: 102.278 ms

Loss rate: 0.07%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-01-09 16:33:05

End at: 2018-01-09 16:33:35

Below is generated by plot.py at 2018-01-09 18:58:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 247.97 Mbit/s

95th percentile per-packet one-way delay: 97.841 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 122.08 Mbit/s

95th percentile per-packet one-way delay: 98.082 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 129.26 Mbit/s

95th percentile per-packet one-way delay: 97.464 ms

Loss rate: 0.00%

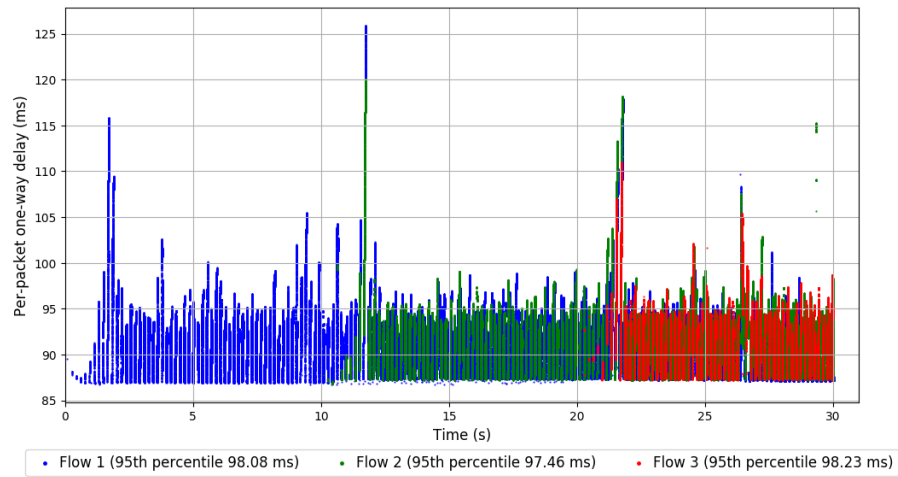
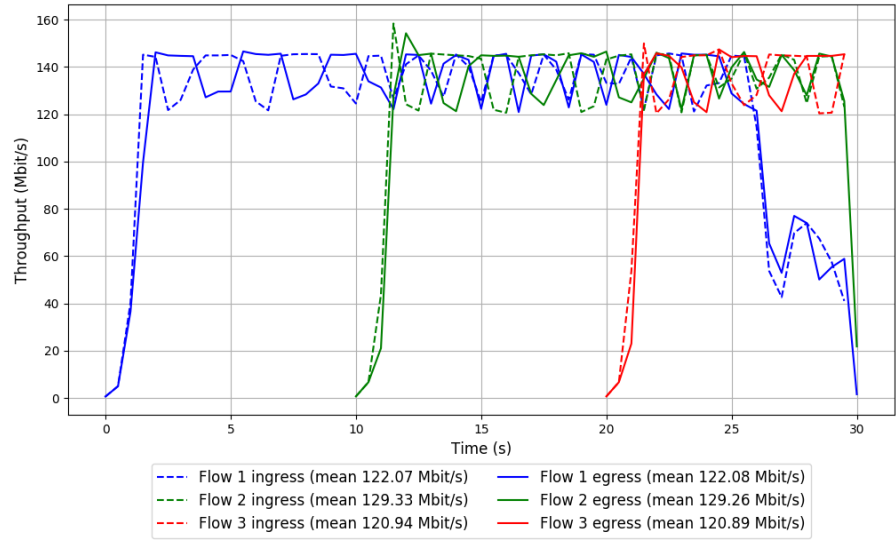
-- Flow 3:

Average throughput: 120.89 Mbit/s

95th percentile per-packet one-way delay: 98.229 ms

Loss rate: 0.00%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-01-09 16:47:39

End at: 2018-01-09 16:48:09

Below is generated by plot.py at 2018-01-09 18:58:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 184.77 Mbit/s

95th percentile per-packet one-way delay: 102.430 ms

Loss rate: 0.62%

-- Flow 1:

Average throughput: 94.15 Mbit/s

95th percentile per-packet one-way delay: 103.002 ms

Loss rate: 0.34%

-- Flow 2:

Average throughput: 76.38 Mbit/s

95th percentile per-packet one-way delay: 103.697 ms

Loss rate: 1.62%

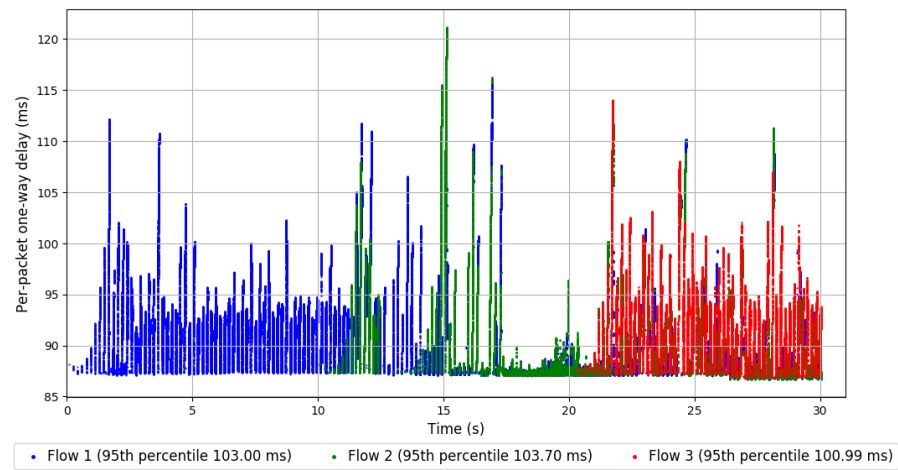
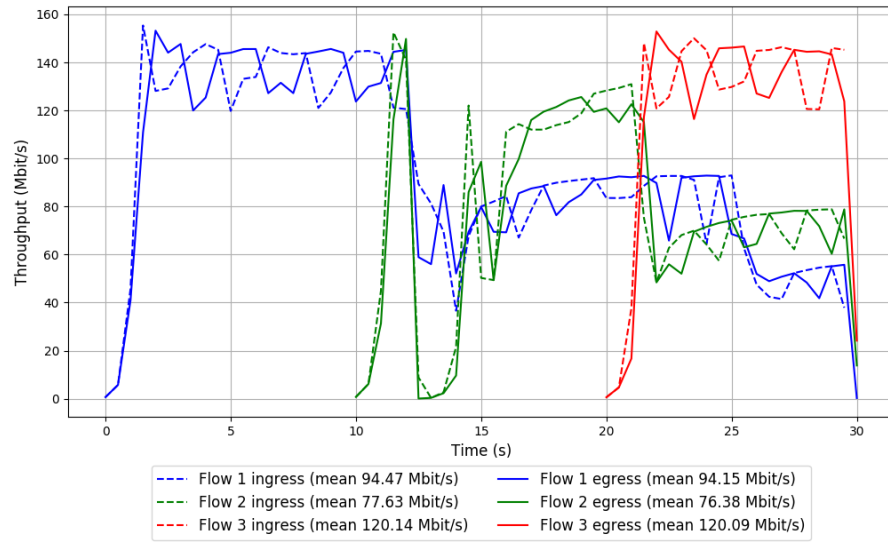
-- Flow 3:

Average throughput: 120.09 Mbit/s

95th percentile per-packet one-way delay: 100.987 ms

Loss rate: 0.00%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-01-09 17:02:35

End at: 2018-01-09 17:03:05

Below is generated by plot.py at 2018-01-09 18:58:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 176.23 Mbit/s

95th percentile per-packet one-way delay: 98.993 ms

Loss rate: 0.44%

-- Flow 1:

Average throughput: 65.49 Mbit/s

95th percentile per-packet one-way delay: 100.647 ms

Loss rate: 1.17%

-- Flow 2:

Average throughput: 105.72 Mbit/s

95th percentile per-packet one-way delay: 98.555 ms

Loss rate: 0.00%

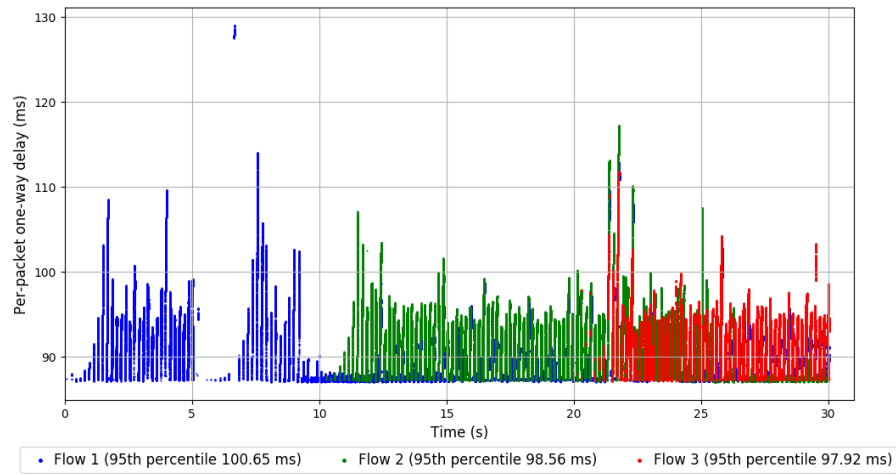
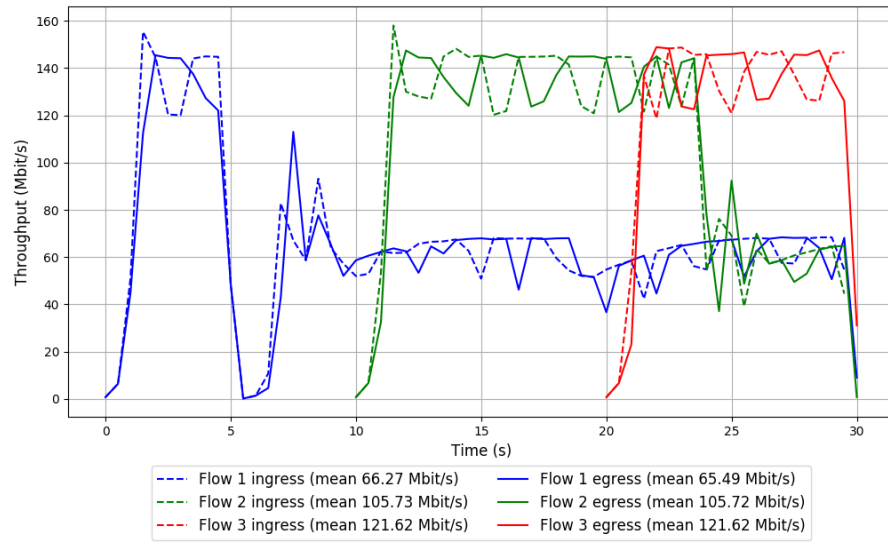
-- Flow 3:

Average throughput: 121.62 Mbit/s

95th percentile per-packet one-way delay: 97.922 ms

Loss rate: 0.00%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-01-09 17:17:13

End at: 2018-01-09 17:17:43

Below is generated by plot.py at 2018-01-09 18:58:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 202.00 Mbit/s

95th percentile per-packet one-way delay: 99.193 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 86.24 Mbit/s

95th percentile per-packet one-way delay: 100.585 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 114.28 Mbit/s

95th percentile per-packet one-way delay: 97.858 ms

Loss rate: 0.00%

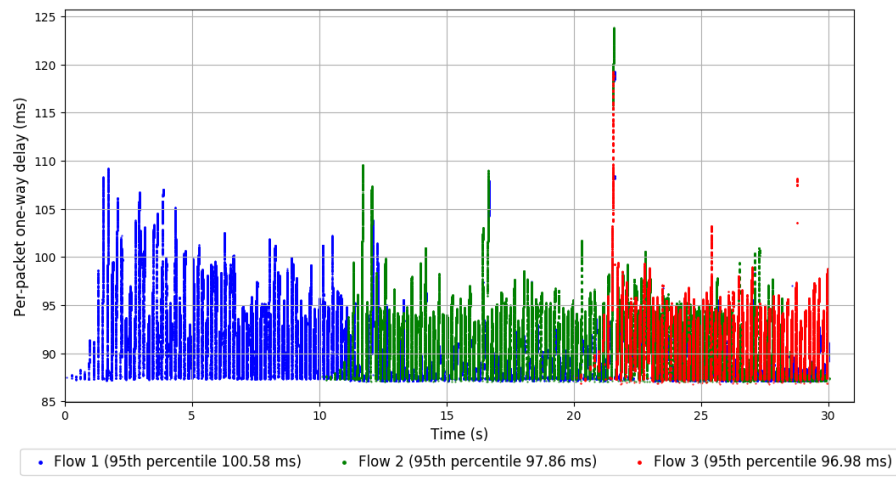
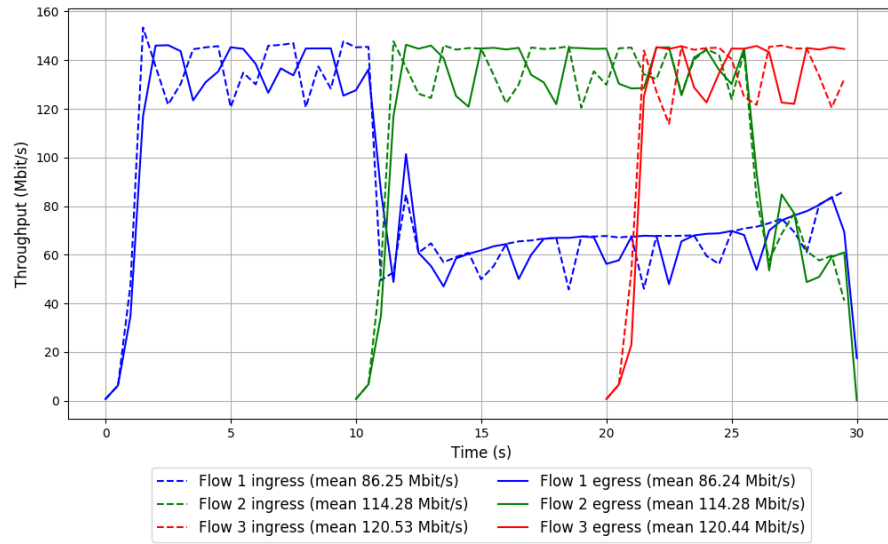
-- Flow 3:

Average throughput: 120.44 Mbit/s

95th percentile per-packet one-way delay: 96.979 ms

Loss rate: 0.00%

Run 10: Report of TCP Cubic — Data Link

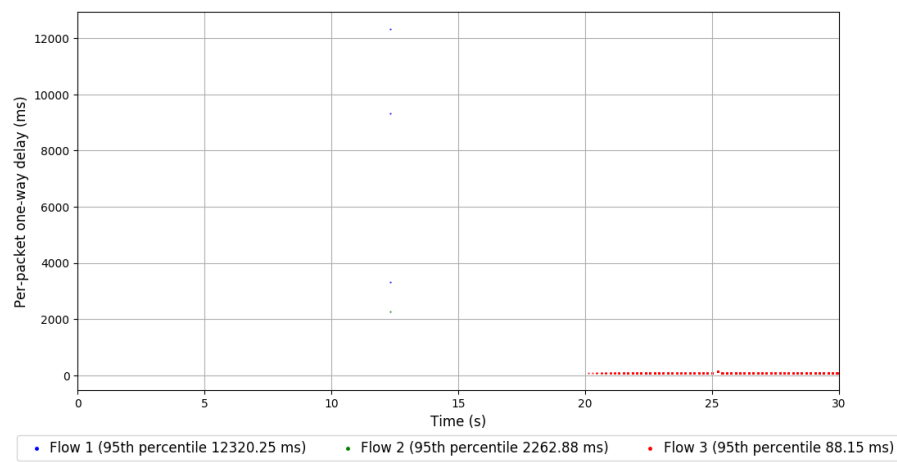
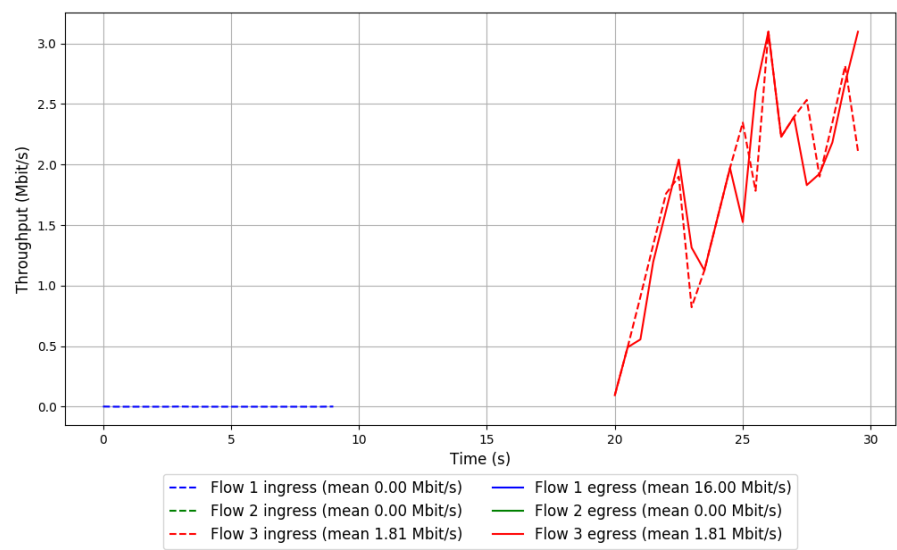


Run 1: Statistics of LEDBAT

Start at: 2018-01-09 15:06:59

End at: 2018-01-09 15:07:29

Run 1: Report of LEDBAT — Data Link

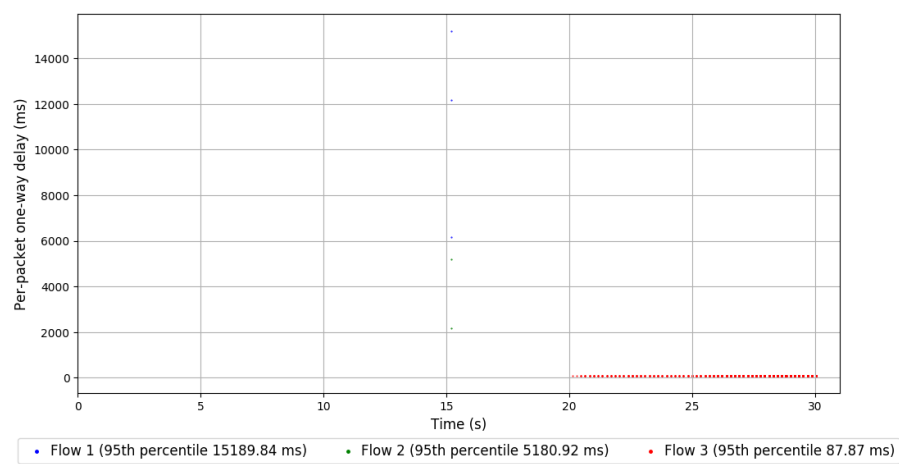
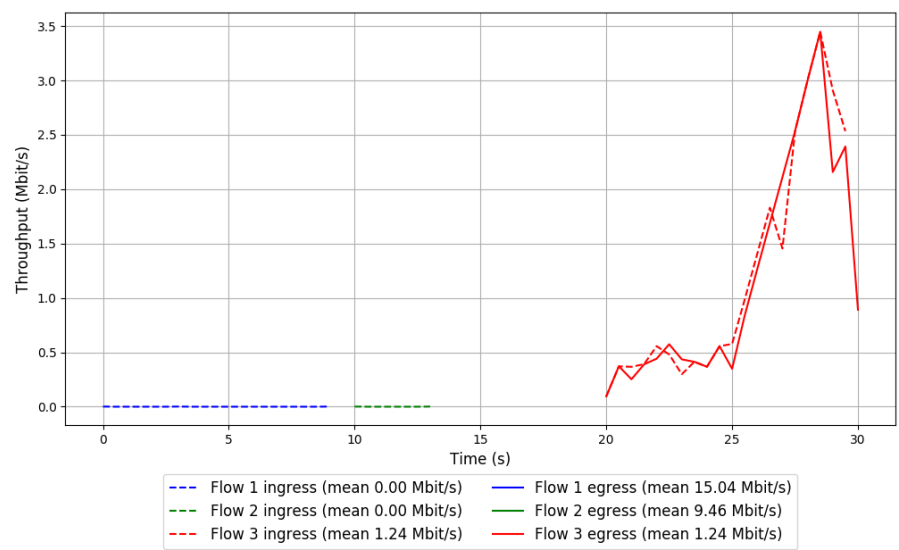


Run 2: Statistics of LEDBAT

Start at: 2018-01-09 15:21:31

End at: 2018-01-09 15:22:01

Run 2: Report of LEDBAT — Data Link

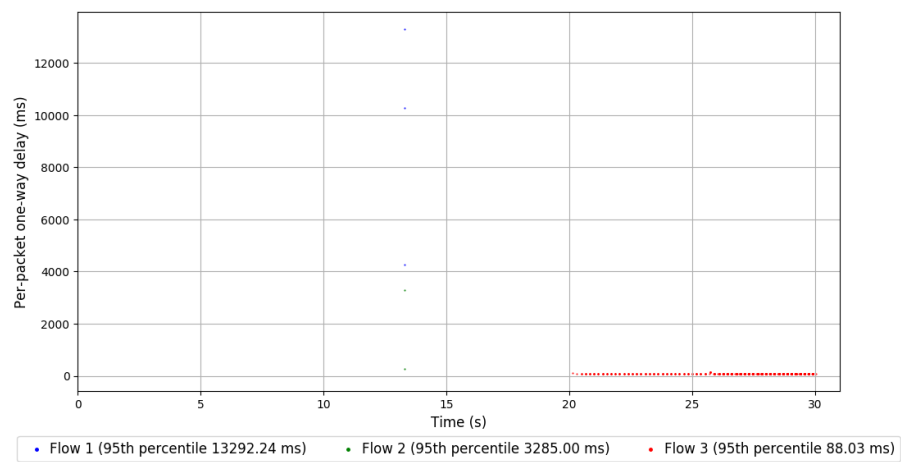
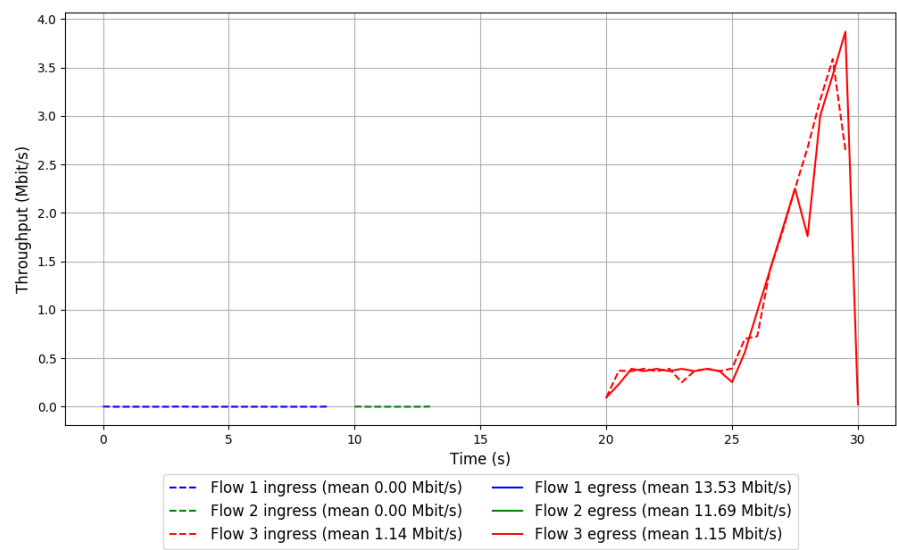


Run 3: Statistics of LEDBAT

Start at: 2018-01-09 15:36:15

End at: 2018-01-09 15:36:45

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-01-09 15:51:04

End at: 2018-01-09 15:51:34

Below is generated by plot.py at 2018-01-09 18:58:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 13.81 Mbit/s

95th percentile per-packet one-way delay: 88.725 ms

Loss rate: 0.58%

-- Flow 1:

Average throughput: 10.74 Mbit/s

95th percentile per-packet one-way delay: 88.836 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 3.78 Mbit/s

95th percentile per-packet one-way delay: 88.350 ms

Loss rate: 2.08%

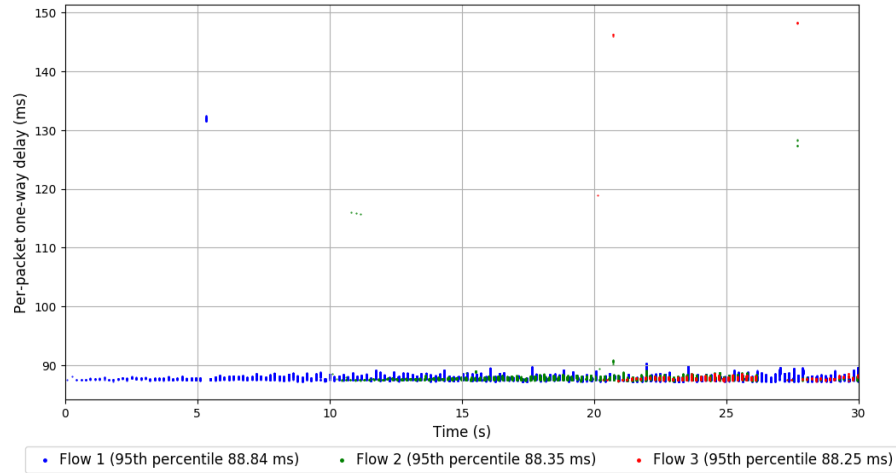
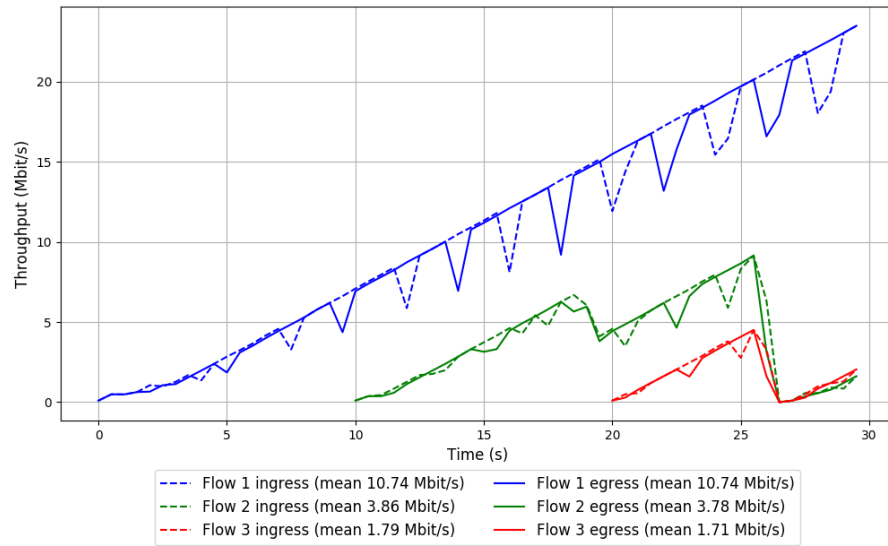
-- Flow 3:

Average throughput: 1.71 Mbit/s

95th percentile per-packet one-way delay: 88.253 ms

Loss rate: 4.74%

Run 4: Report of LEDBAT — Data Link

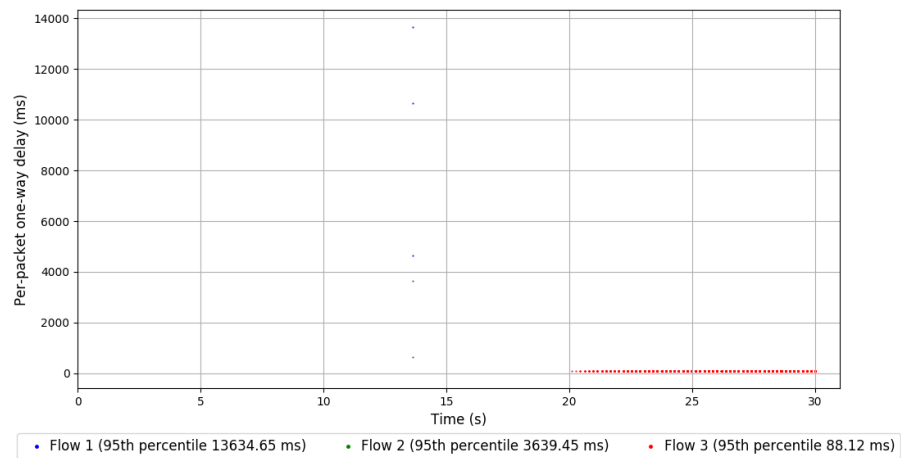
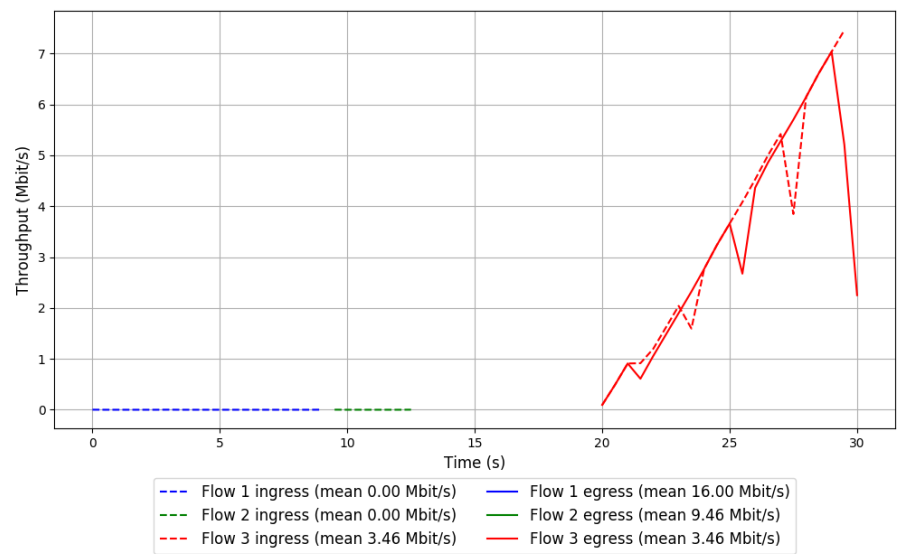


Run 5: Statistics of LEDBAT

Start at: 2018-01-09 16:05:34

End at: 2018-01-09 16:06:04

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-01-09 16:20:15

End at: 2018-01-09 16:20:45

Below is generated by plot.py at 2018-01-09 18:58:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 7.21 Mbit/s

95th percentile per-packet one-way delay: 88.510 ms

Loss rate: 0.74%

-- Flow 1:

Average throughput: 3.95 Mbit/s

95th percentile per-packet one-way delay: 88.538 ms

Loss rate: 1.06%

-- Flow 2:

Average throughput: 3.11 Mbit/s

95th percentile per-packet one-way delay: 88.546 ms

Loss rate: 0.56%

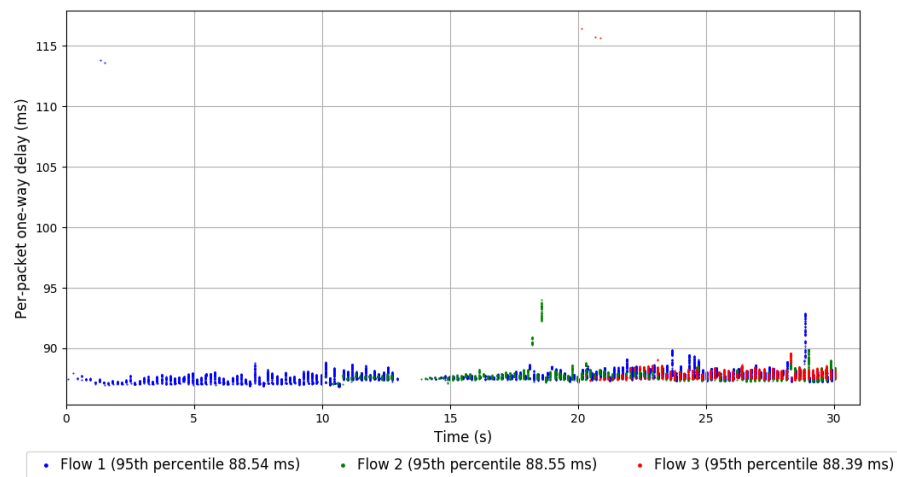
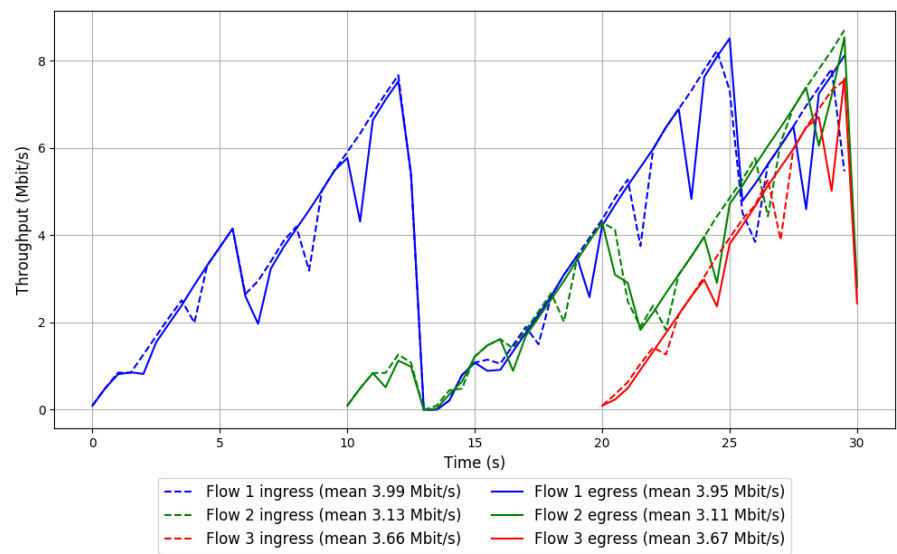
-- Flow 3:

Average throughput: 3.67 Mbit/s

95th percentile per-packet one-way delay: 88.387 ms

Loss rate: 0.00%

Run 6: Report of LEDBAT — Data Link

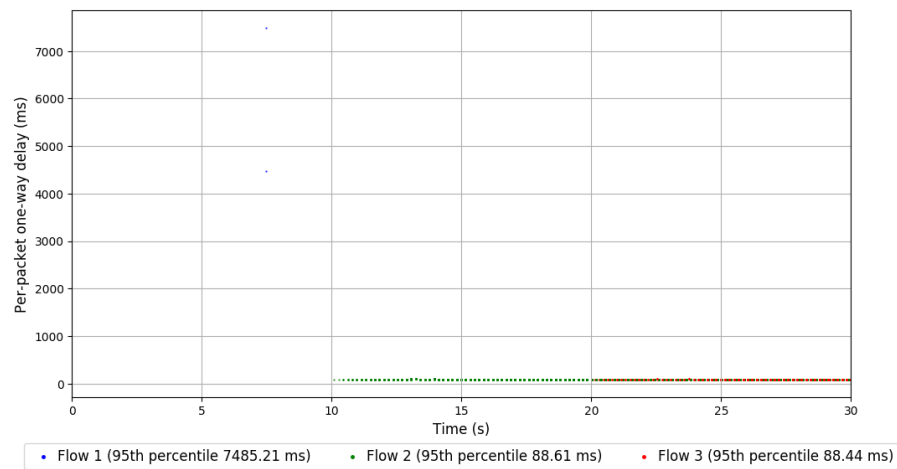
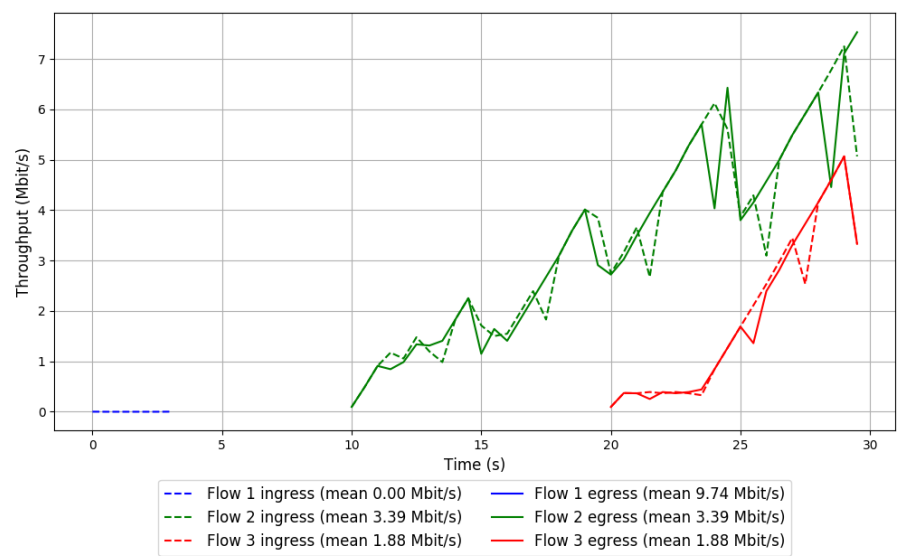


Run 7: Statistics of LEDBAT

Start at: 2018-01-09 16:35:14

End at: 2018-01-09 16:35:44

Run 7: Report of LEDBAT — Data Link

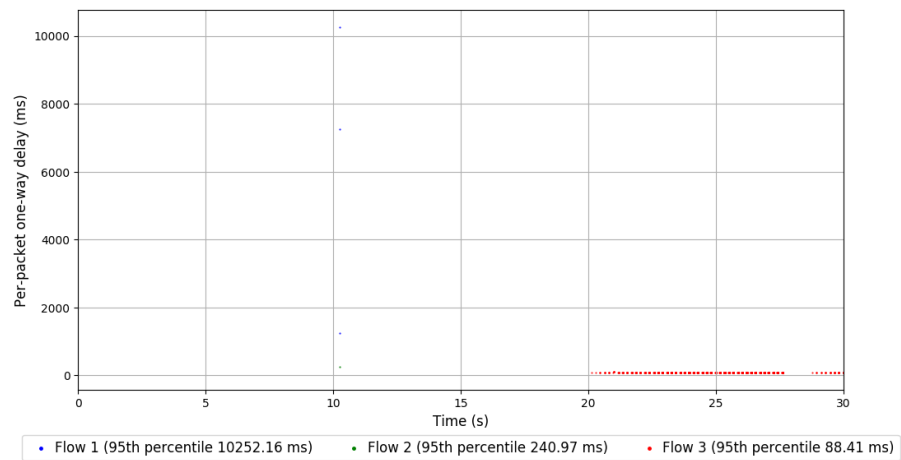
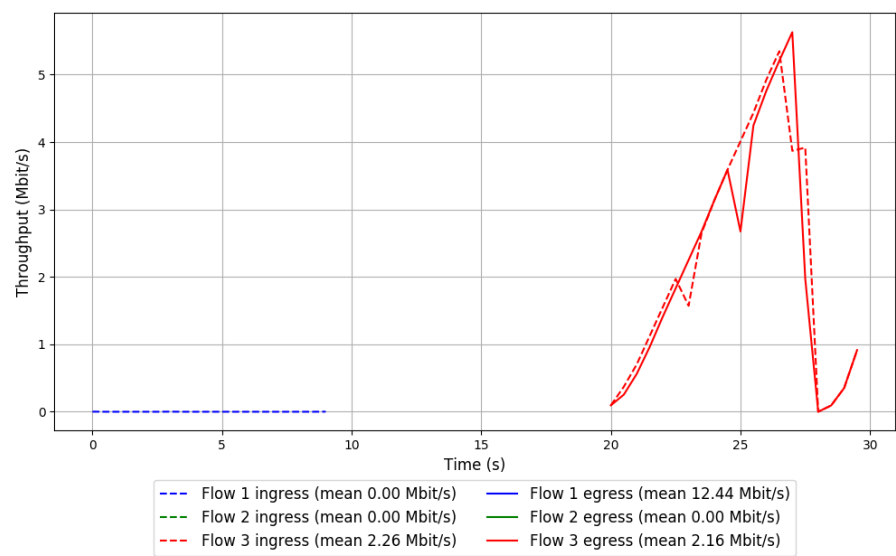


Run 8: Statistics of LEDBAT

Start at: 2018-01-09 16:49:43

End at: 2018-01-09 16:50:13

Run 8: Report of LEDBAT — Data Link

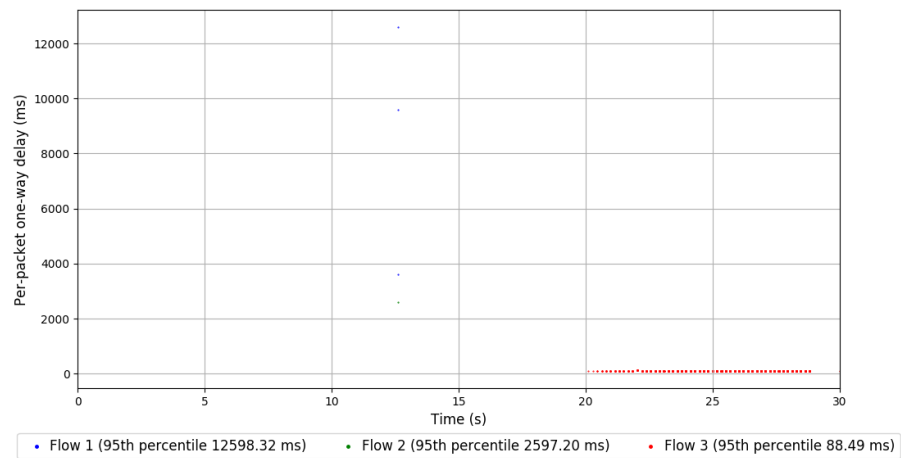
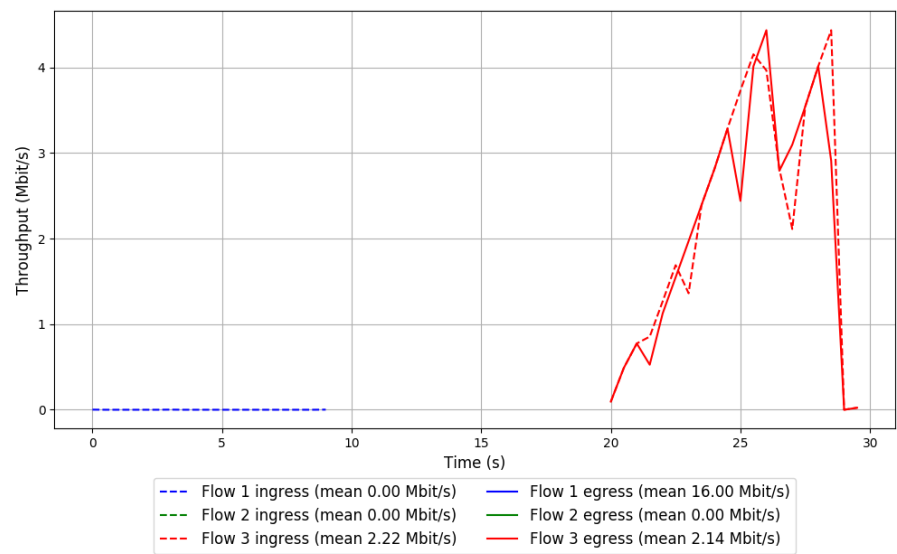


Run 9: Statistics of LEDBAT

Start at: 2018-01-09 17:04:38

End at: 2018-01-09 17:05:08

Run 9: Report of LEDBAT — Data Link

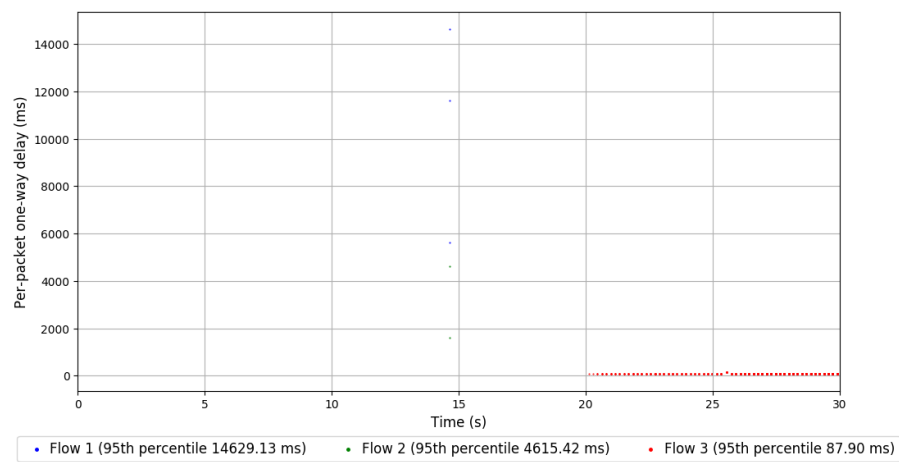
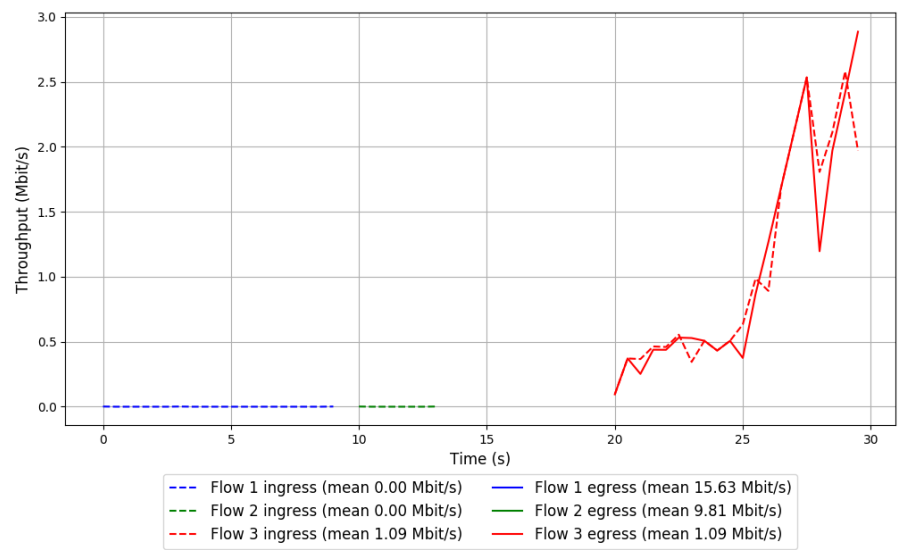


Run 10: Statistics of LEDBAT

Start at: 2018-01-09 17:19:17

End at: 2018-01-09 17:19:47

Run 10: Report of LEDBAT — Data Link

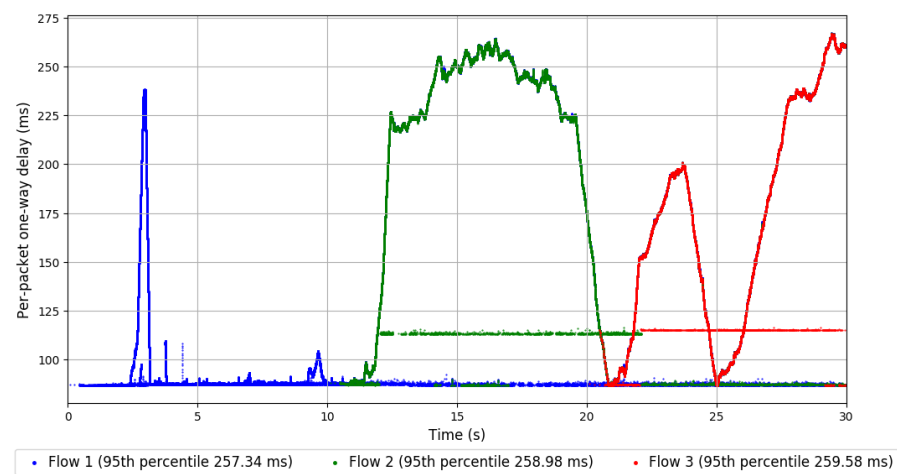
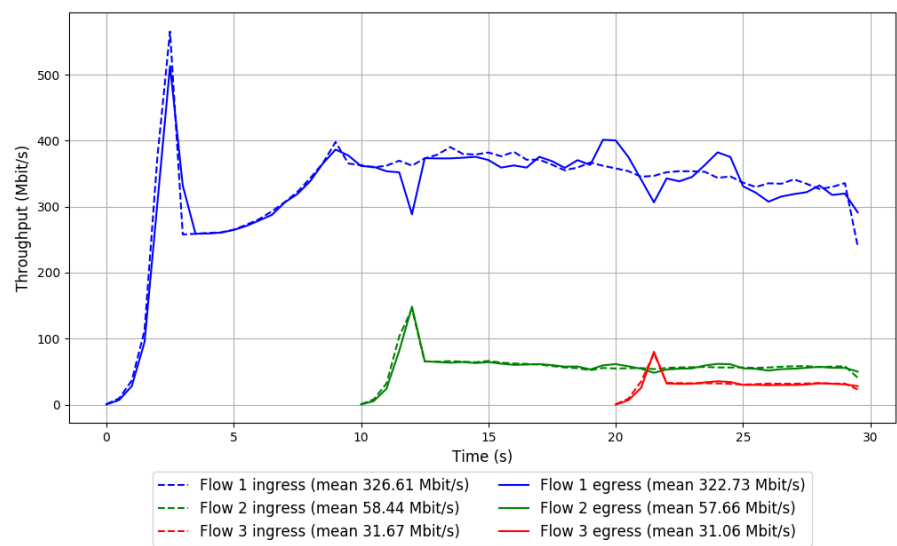


```
Run 1: Statistics of PCC

Start at: 2018-01-09 15:07:42
End at: 2018-01-09 15:08:12

# Below is generated by plot.py at 2018-01-09 19:02:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 371.23 Mbit/s
95th percentile per-packet one-way delay: 257.615 ms
Loss rate: 1.22%
-- Flow 1:
Average throughput: 322.73 Mbit/s
95th percentile per-packet one-way delay: 257.341 ms
Loss rate: 1.19%
-- Flow 2:
Average throughput: 57.66 Mbit/s
95th percentile per-packet one-way delay: 258.977 ms
Loss rate: 1.34%
-- Flow 3:
Average throughput: 31.06 Mbit/s
95th percentile per-packet one-way delay: 259.577 ms
Loss rate: 1.90%
```

Run 1: Report of PCC — Data Link

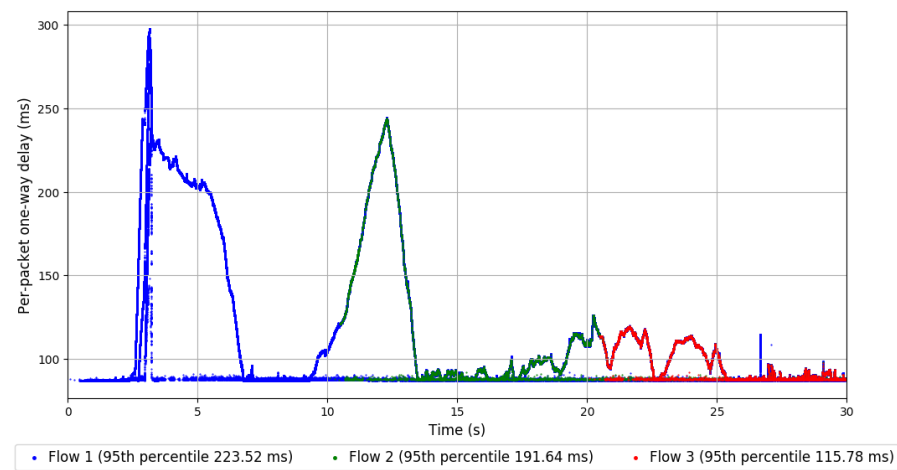
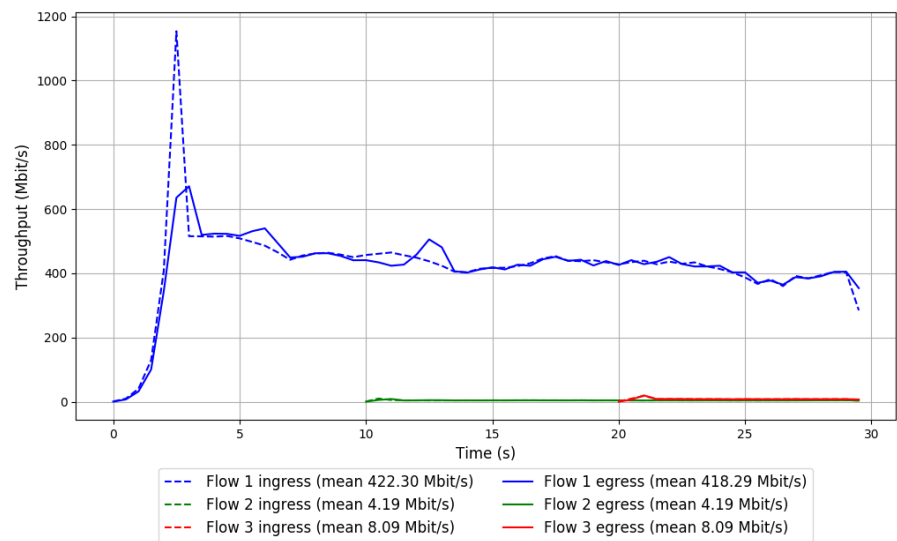


```
Run 2: Statistics of PCC

Start at: 2018-01-09 15:22:14
End at: 2018-01-09 15:22:44

# Below is generated by plot.py at 2018-01-09 19:02:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 423.74 Mbit/s
95th percentile per-packet one-way delay: 223.324 ms
Loss rate: 0.94%
-- Flow 1:
Average throughput: 418.29 Mbit/s
95th percentile per-packet one-way delay: 223.518 ms
Loss rate: 0.95%
-- Flow 2:
Average throughput: 4.19 Mbit/s
95th percentile per-packet one-way delay: 191.638 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 8.09 Mbit/s
95th percentile per-packet one-way delay: 115.776 ms
Loss rate: 0.02%
```

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2018-01-09 15:36:59

End at: 2018-01-09 15:37:29

Below is generated by plot.py at 2018-01-09 19:02:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 385.70 Mbit/s

95th percentile per-packet one-way delay: 234.259 ms

Loss rate: 2.97%

-- Flow 1:

Average throughput: 266.32 Mbit/s

95th percentile per-packet one-way delay: 233.498 ms

Loss rate: 2.39%

-- Flow 2:

Average throughput: 122.34 Mbit/s

95th percentile per-packet one-way delay: 234.847 ms

Loss rate: 3.08%

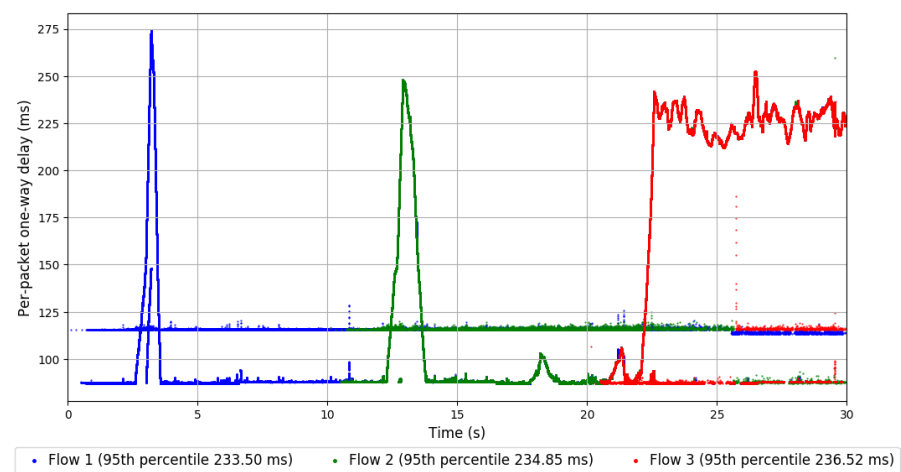
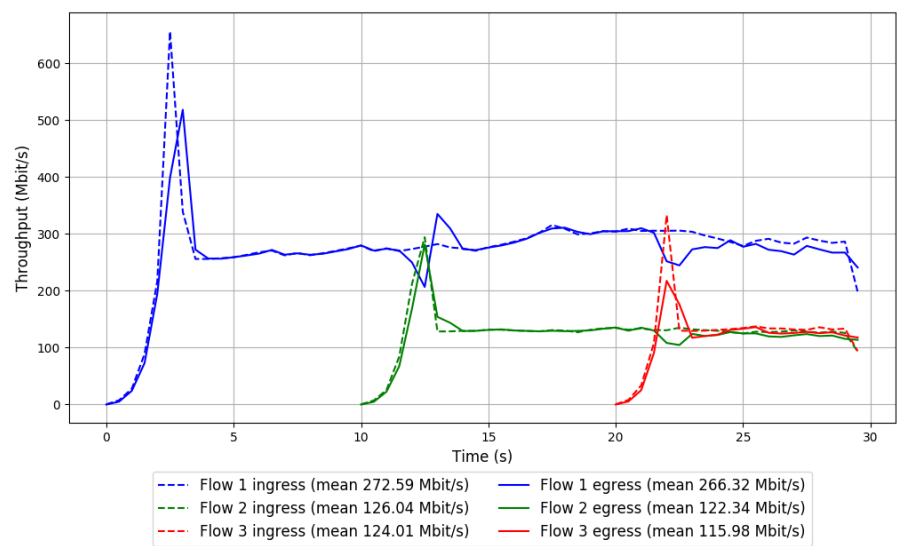
-- Flow 3:

Average throughput: 115.98 Mbit/s

95th percentile per-packet one-way delay: 236.523 ms

Loss rate: 6.63%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2018-01-09 15:51:49

End at: 2018-01-09 15:52:19

Below is generated by plot.py at 2018-01-09 19:03:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 447.94 Mbit/s

95th percentile per-packet one-way delay: 235.080 ms

Loss rate: 2.39%

-- Flow 1:

Average throughput: 445.05 Mbit/s

95th percentile per-packet one-way delay: 235.112 ms

Loss rate: 2.41%

-- Flow 2:

Average throughput: 2.16 Mbit/s

95th percentile per-packet one-way delay: 230.241 ms

Loss rate: 0.13%

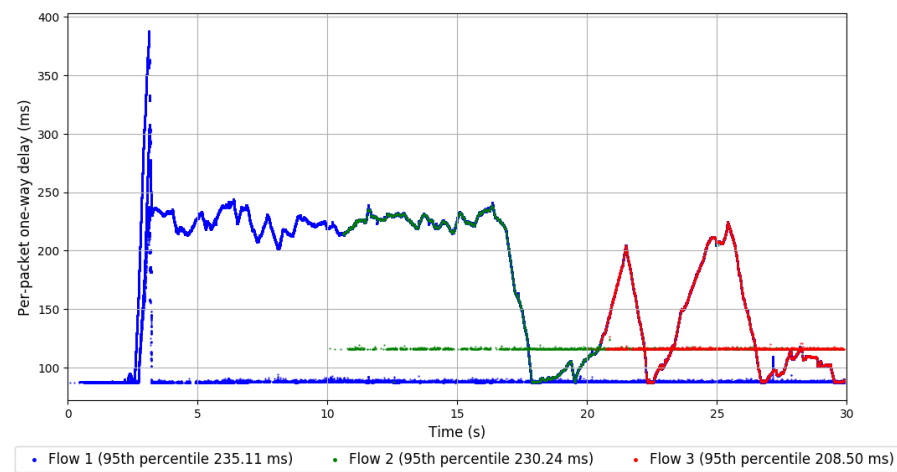
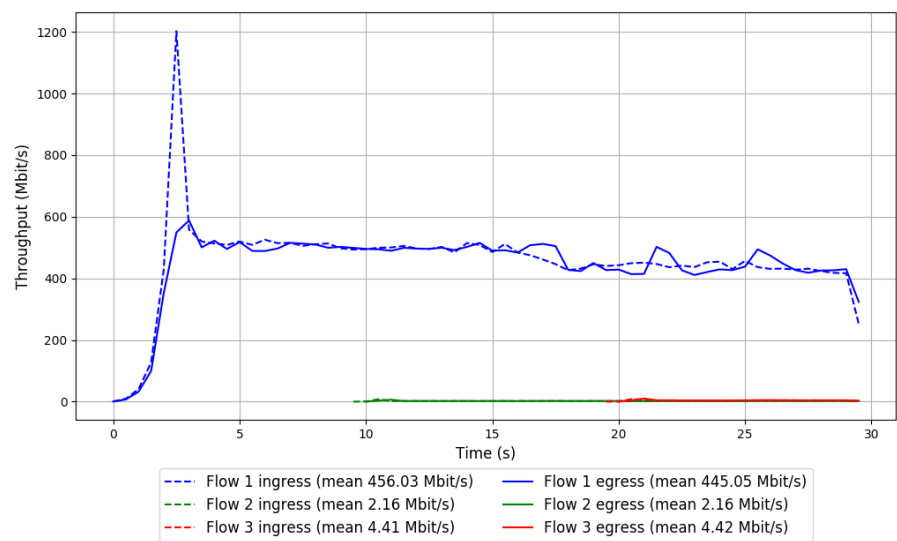
-- Flow 3:

Average throughput: 4.42 Mbit/s

95th percentile per-packet one-way delay: 208.499 ms

Loss rate: 0.03%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2018-01-09 16:06:18

End at: 2018-01-09 16:06:48

Below is generated by plot.py at 2018-01-09 19:03:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 371.26 Mbit/s

95th percentile per-packet one-way delay: 255.421 ms

Loss rate: 1.23%

-- Flow 1:

Average throughput: 275.64 Mbit/s

95th percentile per-packet one-way delay: 255.005 ms

Loss rate: 1.19%

-- Flow 2:

Average throughput: 128.02 Mbit/s

95th percentile per-packet one-way delay: 257.461 ms

Loss rate: 1.44%

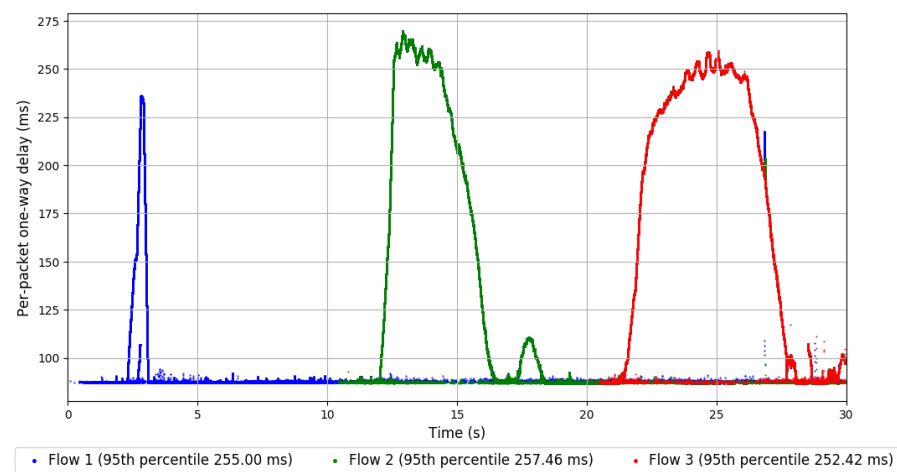
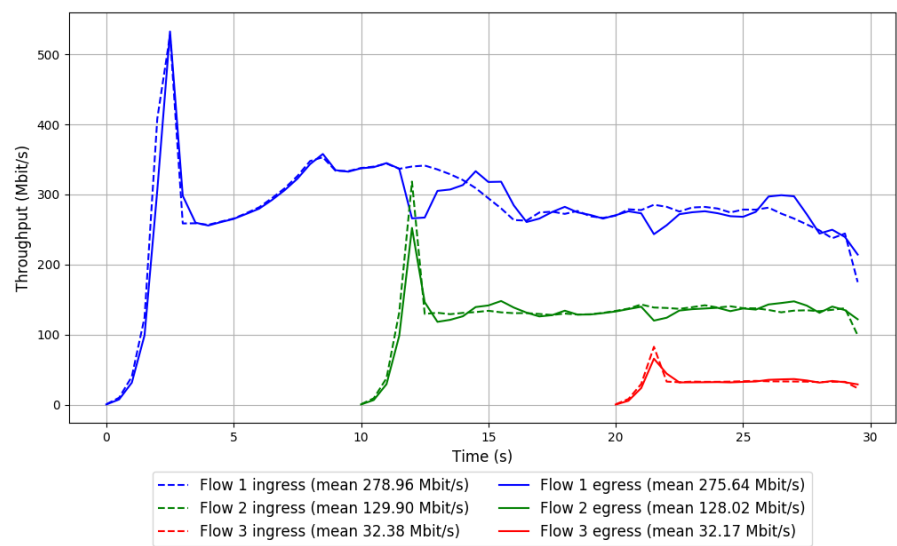
-- Flow 3:

Average throughput: 32.17 Mbit/s

95th percentile per-packet one-way delay: 252.421 ms

Loss rate: 0.61%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2018-01-09 16:20:59

End at: 2018-01-09 16:21:29

Below is generated by plot.py at 2018-01-09 19:04:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 451.31 Mbit/s

95th percentile per-packet one-way delay: 234.145 ms

Loss rate: 2.81%

-- Flow 1:

Average throughput: 369.43 Mbit/s

95th percentile per-packet one-way delay: 234.547 ms

Loss rate: 2.82%

-- Flow 2:

Average throughput: 122.26 Mbit/s

95th percentile per-packet one-way delay: 233.070 ms

Loss rate: 2.78%

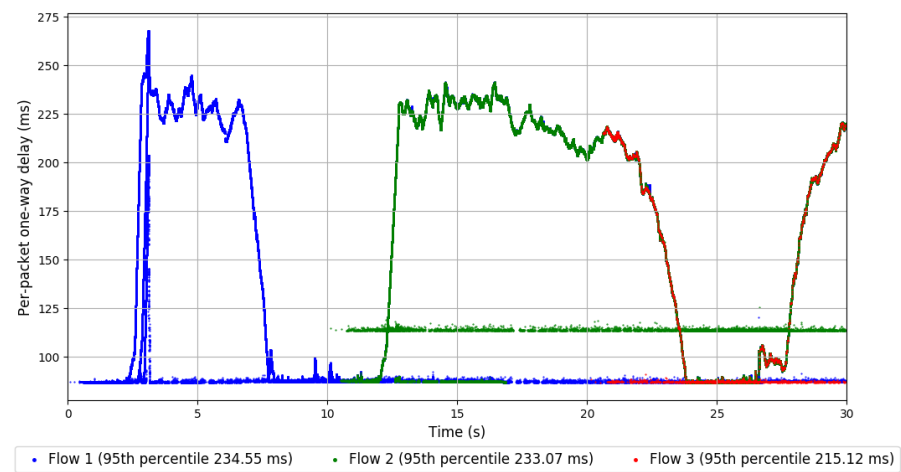
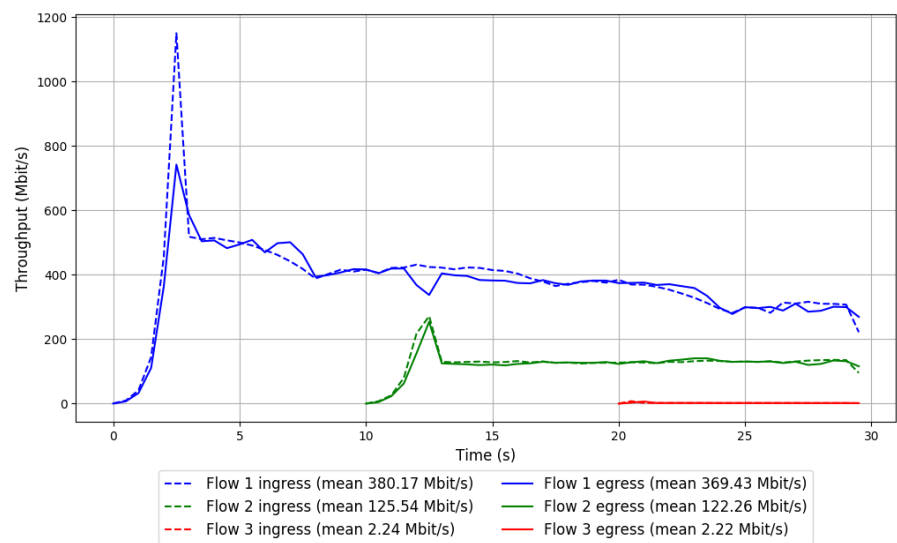
-- Flow 3:

Average throughput: 2.22 Mbit/s

95th percentile per-packet one-way delay: 215.116 ms

Loss rate: 1.04%

Run 6: Report of PCC — Data Link

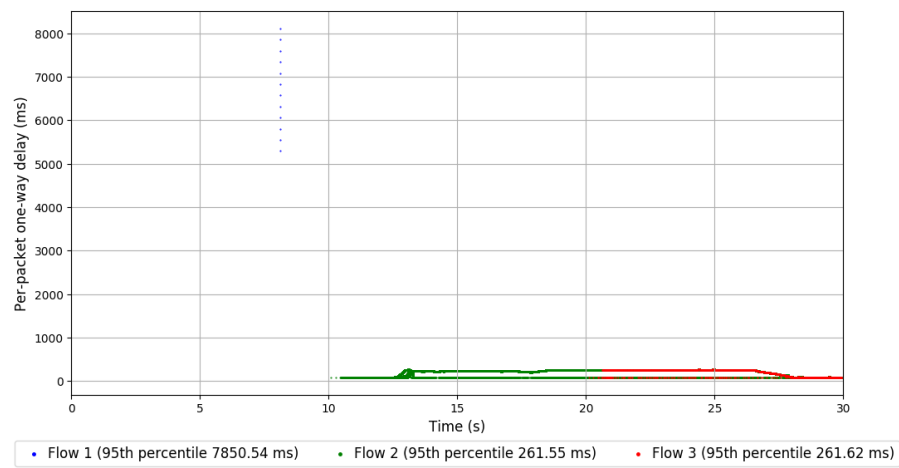
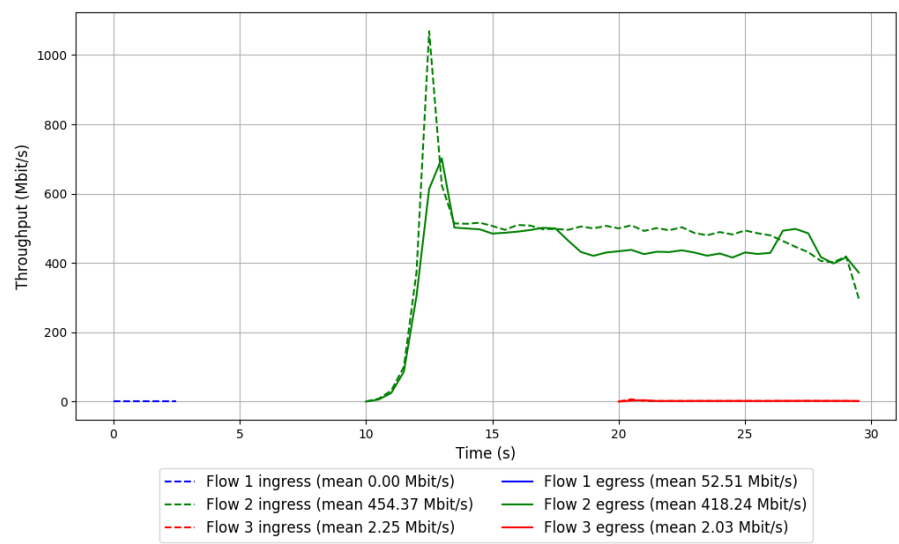


Run 7: Statistics of PCC

Start at: 2018-01-09 16:35:58

End at: 2018-01-09 16:36:28

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2018-01-09 16:50:27

End at: 2018-01-09 16:50:57

Below is generated by plot.py at 2018-01-09 19:06:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 471.34 Mbit/s

95th percentile per-packet one-way delay: 244.051 ms

Loss rate: 2.07%

-- Flow 1:

Average throughput: 467.04 Mbit/s

95th percentile per-packet one-way delay: 244.090 ms

Loss rate: 2.07%

-- Flow 2:

Average throughput: 2.31 Mbit/s

95th percentile per-packet one-way delay: 236.541 ms

Loss rate: 1.77%

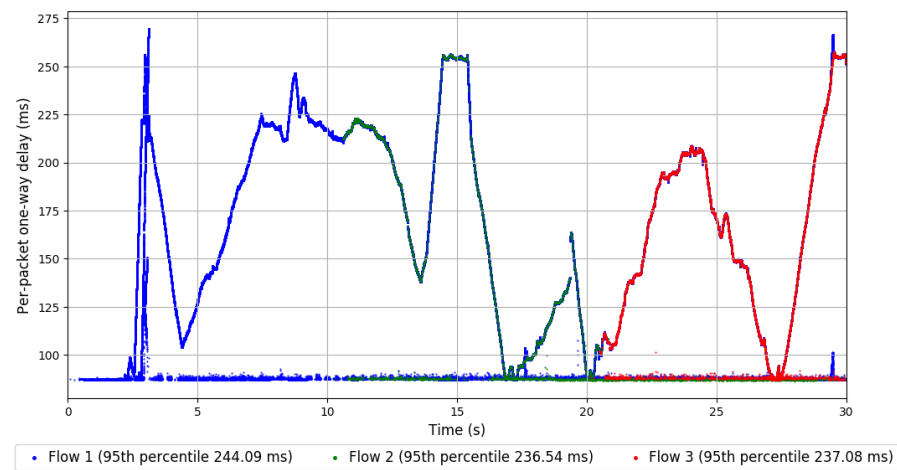
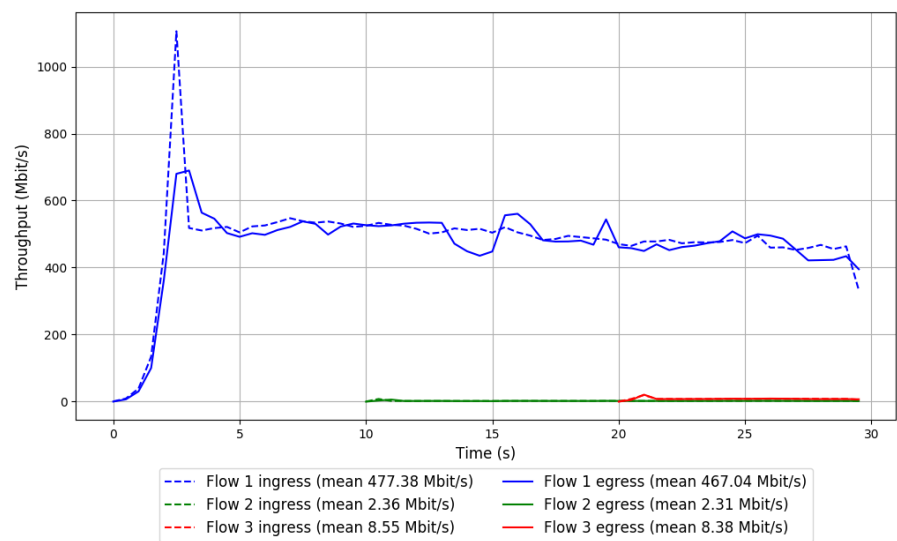
-- Flow 3:

Average throughput: 8.38 Mbit/s

95th percentile per-packet one-way delay: 237.082 ms

Loss rate: 1.70%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2018-01-09 17:05:22

End at: 2018-01-09 17:05:52

Below is generated by plot.py at 2018-01-09 19:08:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 407.33 Mbit/s

95th percentile per-packet one-way delay: 247.036 ms

Loss rate: 3.54%

-- Flow 1:

Average throughput: 386.16 Mbit/s

95th percentile per-packet one-way delay: 246.948 ms

Loss rate: 3.54%

-- Flow 2:

Average throughput: 30.79 Mbit/s

95th percentile per-packet one-way delay: 248.077 ms

Loss rate: 3.42%

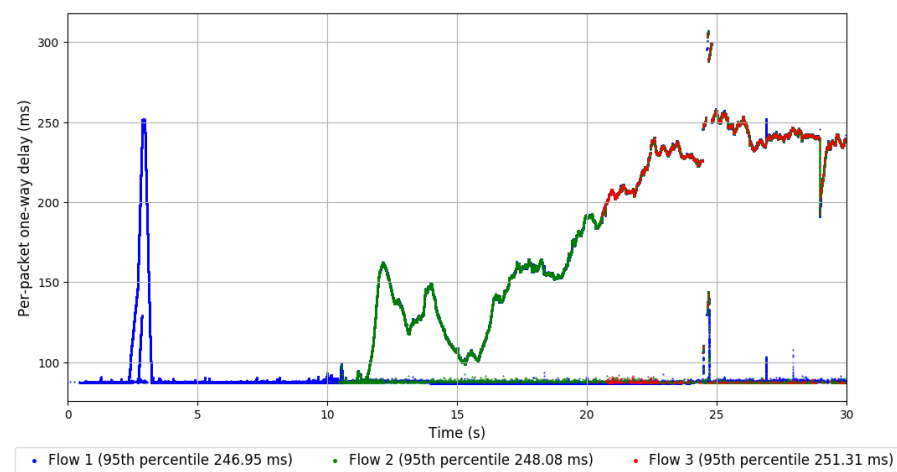
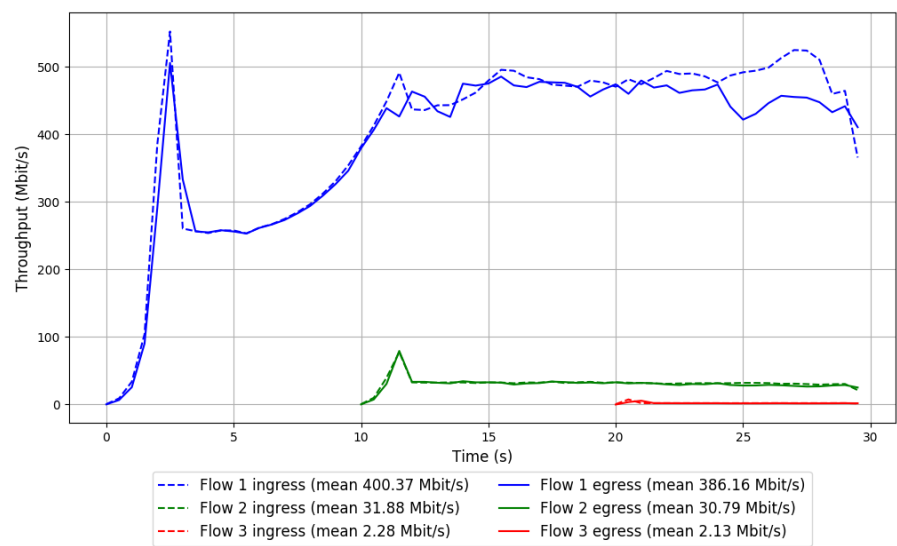
-- Flow 3:

Average throughput: 2.13 Mbit/s

95th percentile per-packet one-way delay: 251.308 ms

Loss rate: 6.84%

Run 9: Report of PCC — Data Link

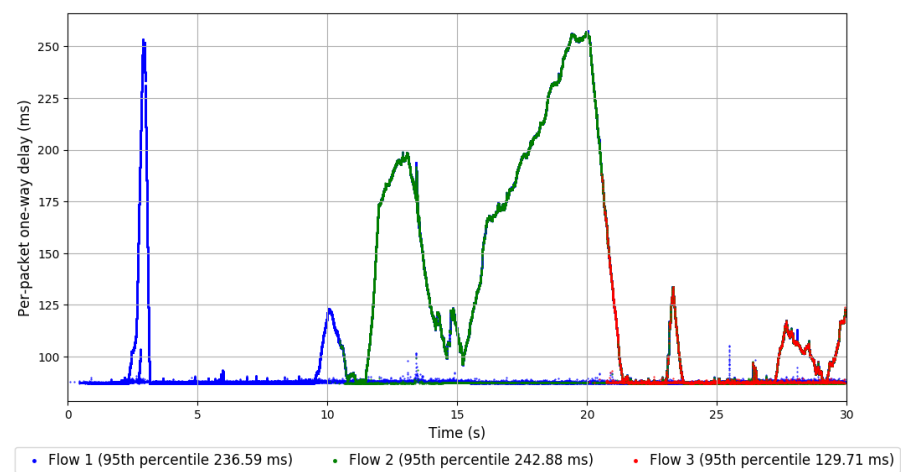
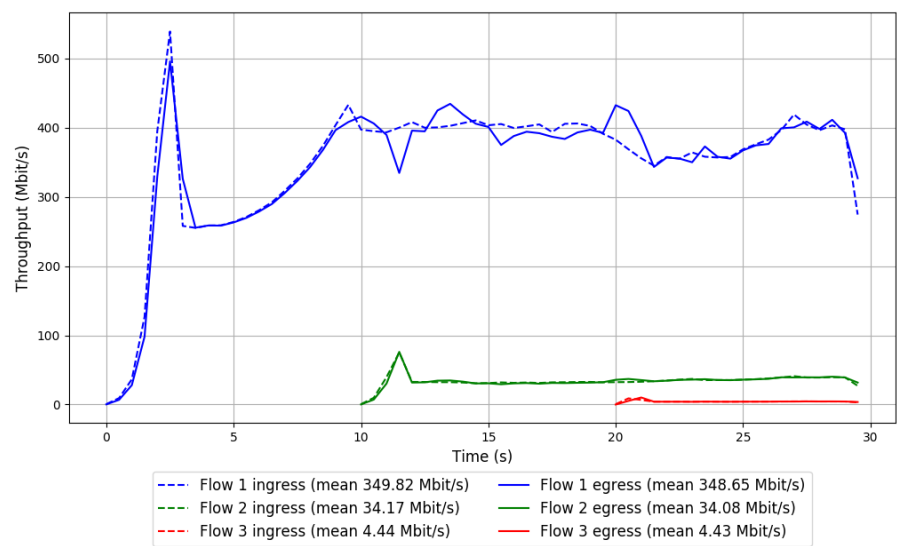


```
Run 10: Statistics of PCC

Start at: 2018-01-09 17:20:00
End at: 2018-01-09 17:20:30

# Below is generated by plot.py at 2018-01-09 19:08:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 372.73 Mbit/s
95th percentile per-packet one-way delay: 236.711 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 348.65 Mbit/s
95th percentile per-packet one-way delay: 236.586 ms
Loss rate: 0.33%
-- Flow 2:
Average throughput: 34.08 Mbit/s
95th percentile per-packet one-way delay: 242.877 ms
Loss rate: 0.25%
-- Flow 3:
Average throughput: 4.43 Mbit/s
95th percentile per-packet one-way delay: 129.707 ms
Loss rate: 0.30%
```

Run 10: Report of PCC — Data Link

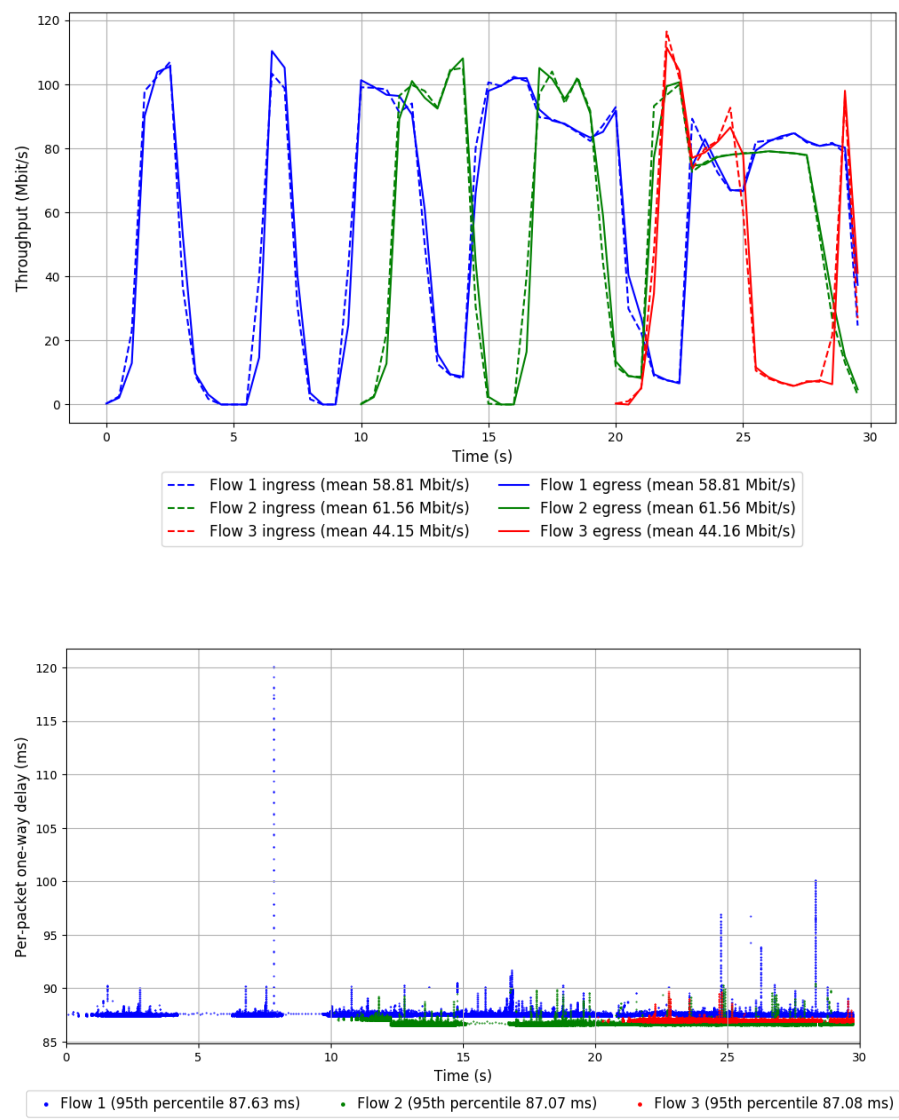


```
Run 1: Statistics of QUIC Cubic

Start at: 2018-01-09 15:08:42
End at: 2018-01-09 15:09:12

# Below is generated by plot.py at 2018-01-09 19:08:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 113.89 Mbit/s
95th percentile per-packet one-way delay: 87.588 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 58.81 Mbit/s
95th percentile per-packet one-way delay: 87.631 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 61.56 Mbit/s
95th percentile per-packet one-way delay: 87.071 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 44.16 Mbit/s
95th percentile per-packet one-way delay: 87.083 ms
Loss rate: 0.00%
```


Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-01-09 15:23:15

End at: 2018-01-09 15:23:45

Below is generated by plot.py at 2018-01-09 19:08:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.95 Mbit/s

95th percentile per-packet one-way delay: 113.242 ms

Loss rate: 0.11%

-- Flow 1:

Average throughput: 53.19 Mbit/s

95th percentile per-packet one-way delay: 87.793 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 37.36 Mbit/s

95th percentile per-packet one-way delay: 87.741 ms

Loss rate: 0.00%

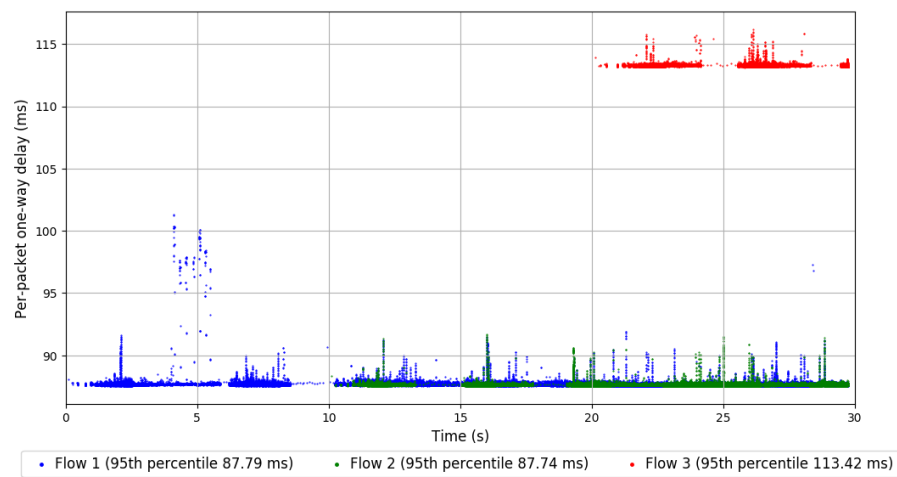
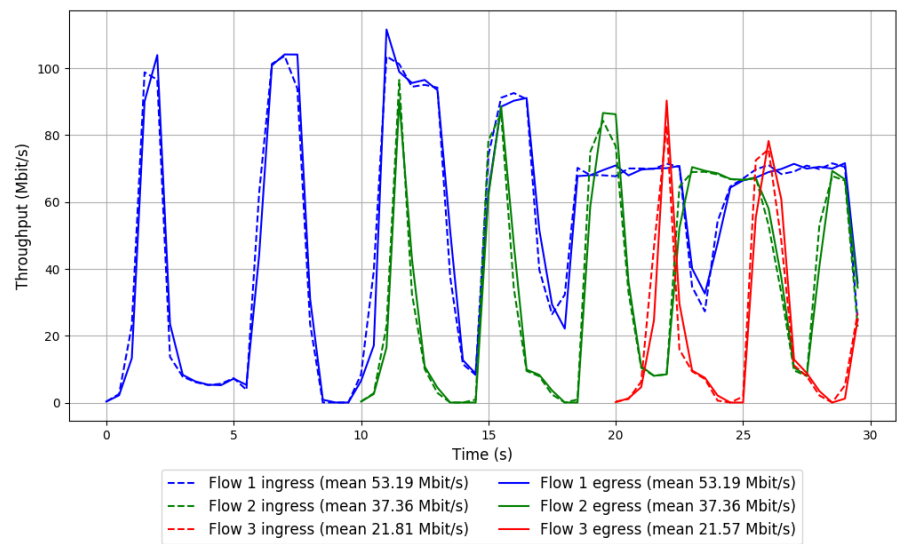
-- Flow 3:

Average throughput: 21.57 Mbit/s

95th percentile per-packet one-way delay: 113.416 ms

Loss rate: 1.37%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-01-09 15:37:59

End at: 2018-01-09 15:38:29

Below is generated by plot.py at 2018-01-09 19:08:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 105.92 Mbit/s

95th percentile per-packet one-way delay: 115.678 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 52.77 Mbit/s

95th percentile per-packet one-way delay: 115.724 ms

Loss rate: 0.14%

-- Flow 2:

Average throughput: 48.92 Mbit/s

95th percentile per-packet one-way delay: 113.542 ms

Loss rate: 0.00%

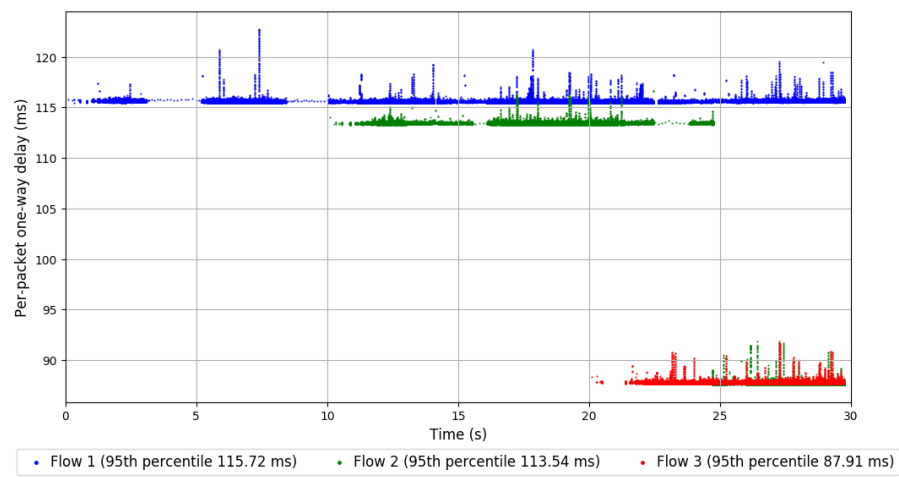
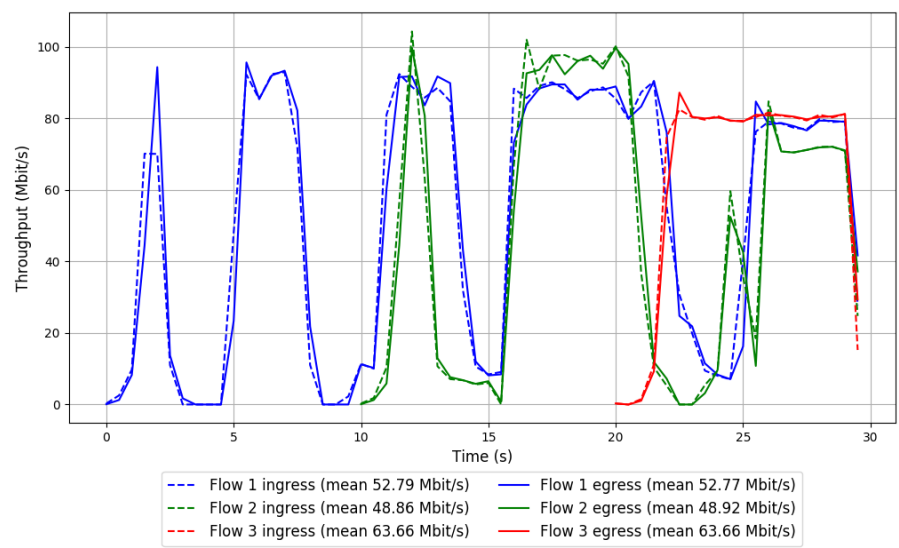
-- Flow 3:

Average throughput: 63.66 Mbit/s

95th percentile per-packet one-way delay: 87.912 ms

Loss rate: 0.00%

Run 3: Report of QUIC Cubic — Data Link

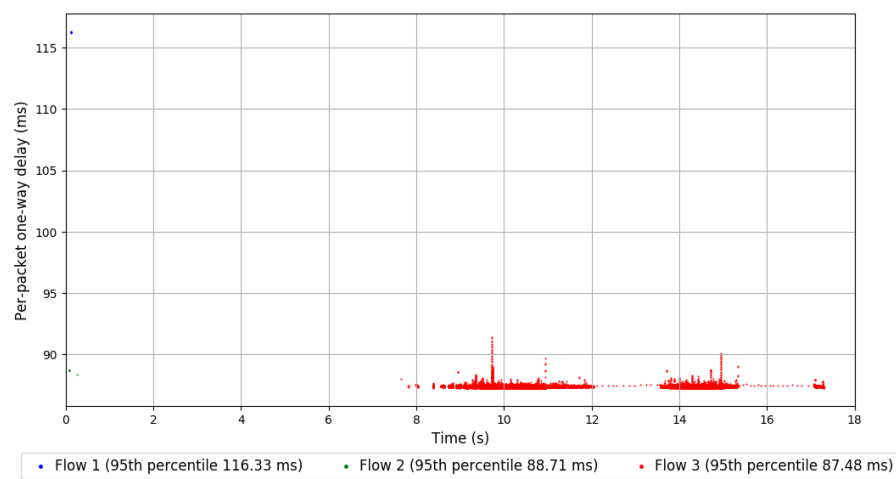
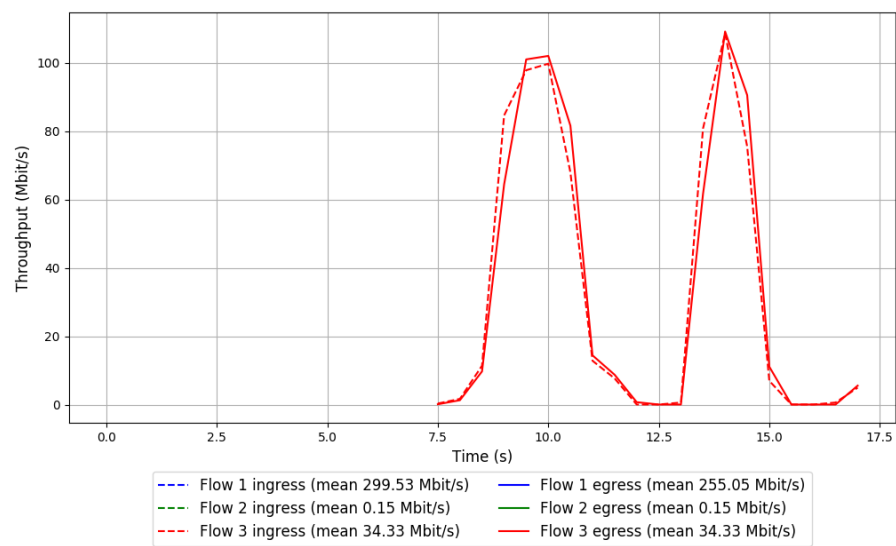


Run 4: Statistics of QUIC Cubic

Start at: 2018-01-09 15:52:51

End at: 2018-01-09 15:53:21

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-01-09 16:07:19

End at: 2018-01-09 16:07:49

Below is generated by plot.py at 2018-01-09 19:08:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 98.16 Mbit/s

95th percentile per-packet one-way delay: 87.798 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 50.98 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 43.42 Mbit/s

95th percentile per-packet one-way delay: 87.551 ms

Loss rate: 0.00%

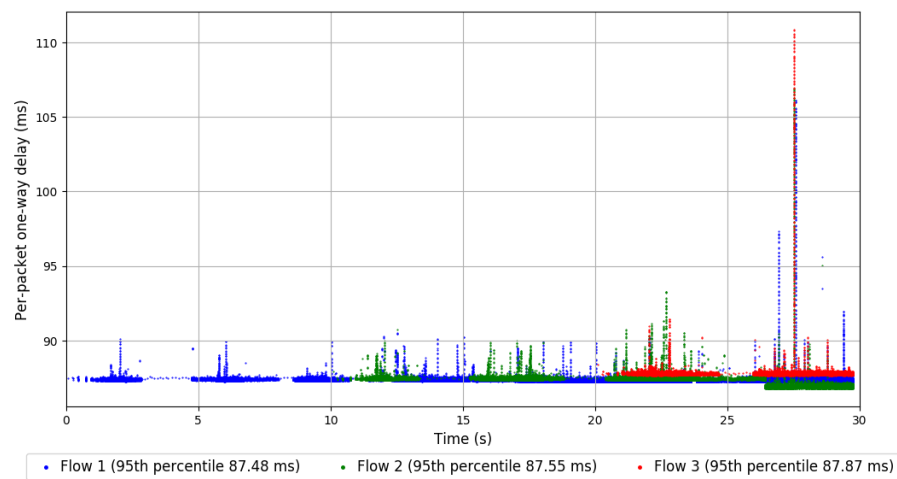
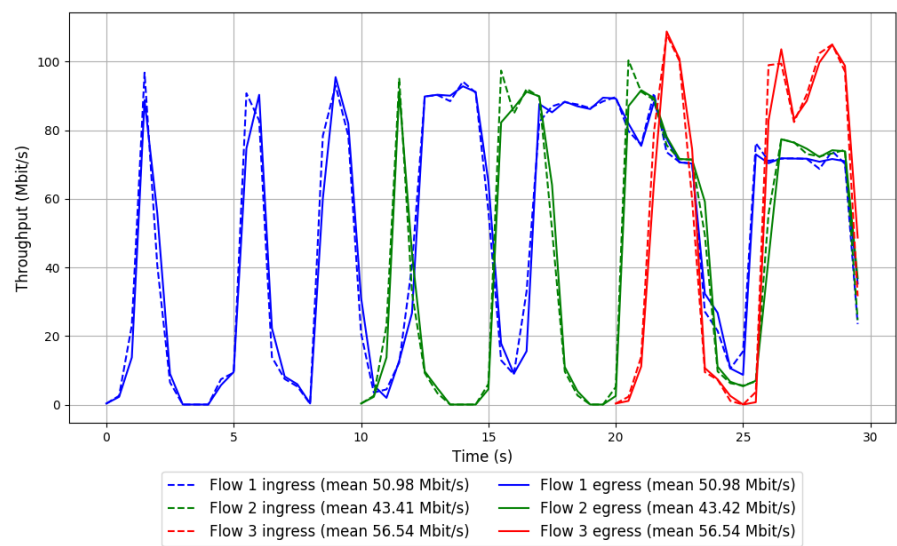
-- Flow 3:

Average throughput: 56.54 Mbit/s

95th percentile per-packet one-way delay: 87.870 ms

Loss rate: 0.00%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-01-09 16:22:01

End at: 2018-01-09 16:22:31

Below is generated by plot.py at 2018-01-09 19:08:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 102.19 Mbit/s

95th percentile per-packet one-way delay: 115.664 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 57.23 Mbit/s

95th percentile per-packet one-way delay: 113.412 ms

Loss rate: 0.12%

-- Flow 2:

Average throughput: 58.13 Mbit/s

95th percentile per-packet one-way delay: 115.724 ms

Loss rate: 0.00%

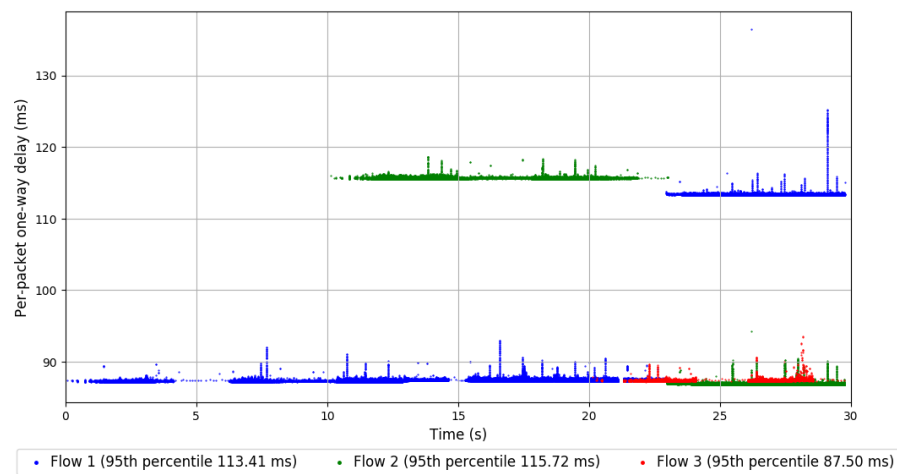
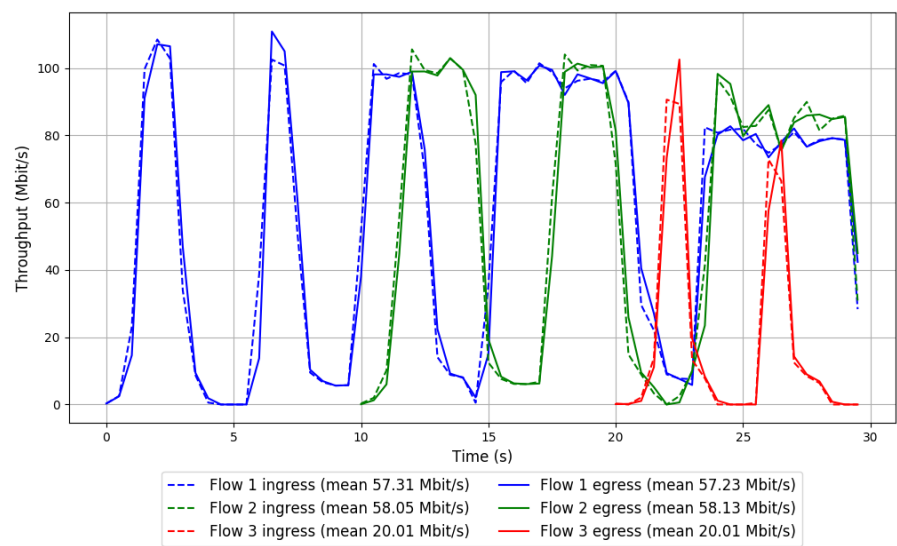
-- Flow 3:

Average throughput: 20.01 Mbit/s

95th percentile per-packet one-way delay: 87.495 ms

Loss rate: 0.00%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-01-09 16:36:53

End at: 2018-01-09 16:37:23

Below is generated by plot.py at 2018-01-09 19:08:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 102.64 Mbit/s

95th percentile per-packet one-way delay: 87.747 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 52.37 Mbit/s

95th percentile per-packet one-way delay: 87.324 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 44.20 Mbit/s

95th percentile per-packet one-way delay: 87.829 ms

Loss rate: 0.00%

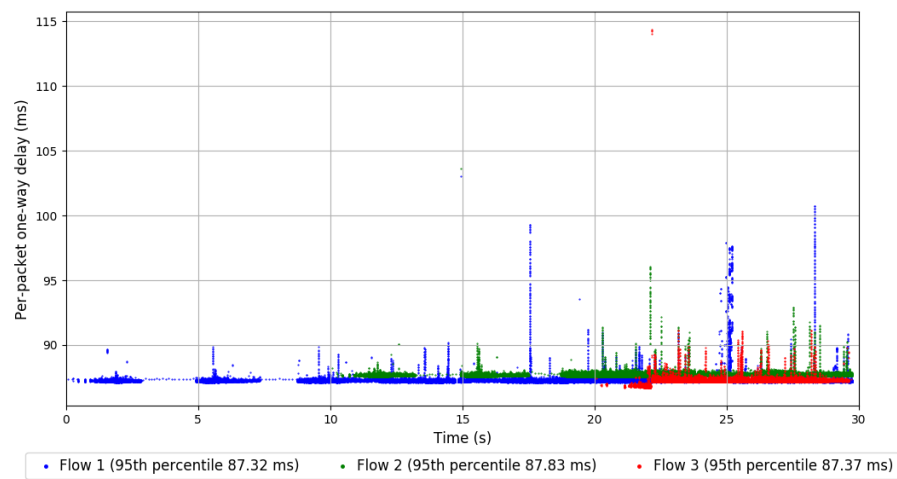
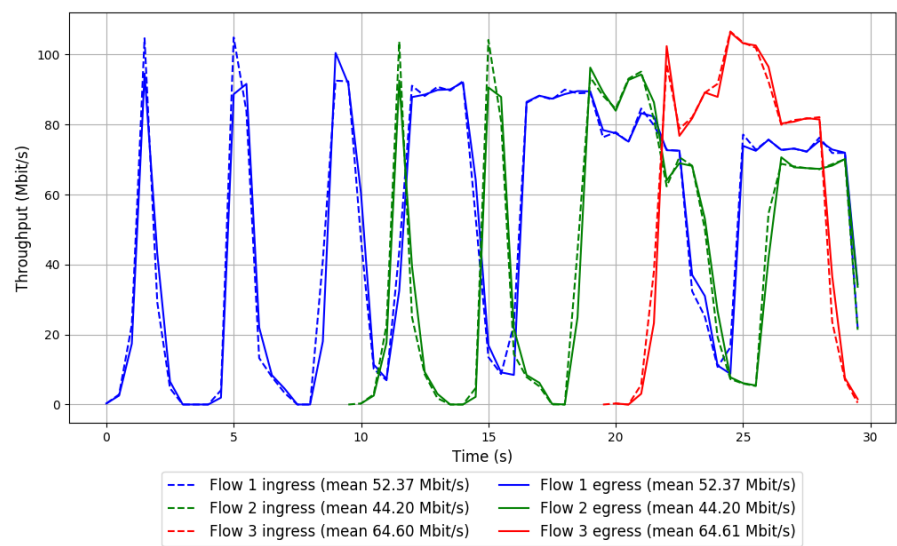
-- Flow 3:

Average throughput: 64.61 Mbit/s

95th percentile per-packet one-way delay: 87.371 ms

Loss rate: 0.00%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-01-09 16:51:29

End at: 2018-01-09 16:51:59

Below is generated by plot.py at 2018-01-09 19:08:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 119.12 Mbit/s

95th percentile per-packet one-way delay: 87.609 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 66.06 Mbit/s

95th percentile per-packet one-way delay: 87.296 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 50.00 Mbit/s

95th percentile per-packet one-way delay: 87.676 ms

Loss rate: 0.00%

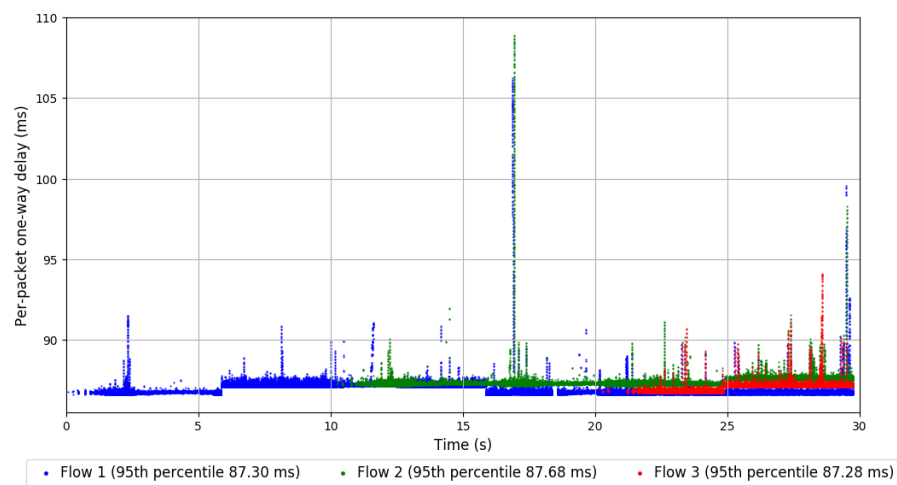
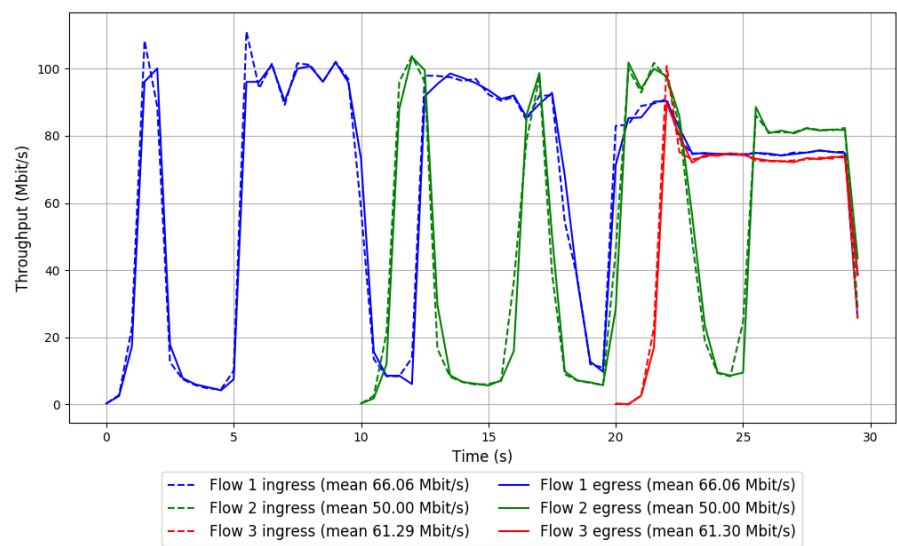
-- Flow 3:

Average throughput: 61.30 Mbit/s

95th percentile per-packet one-way delay: 87.279 ms

Loss rate: 0.00%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-01-09 17:06:24

End at: 2018-01-09 17:06:54

Below is generated by plot.py at 2018-01-09 19:08:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.15 Mbit/s

95th percentile per-packet one-way delay: 87.700 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 60.73 Mbit/s

95th percentile per-packet one-way delay: 87.717 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 36.38 Mbit/s

95th percentile per-packet one-way delay: 87.363 ms

Loss rate: 0.00%

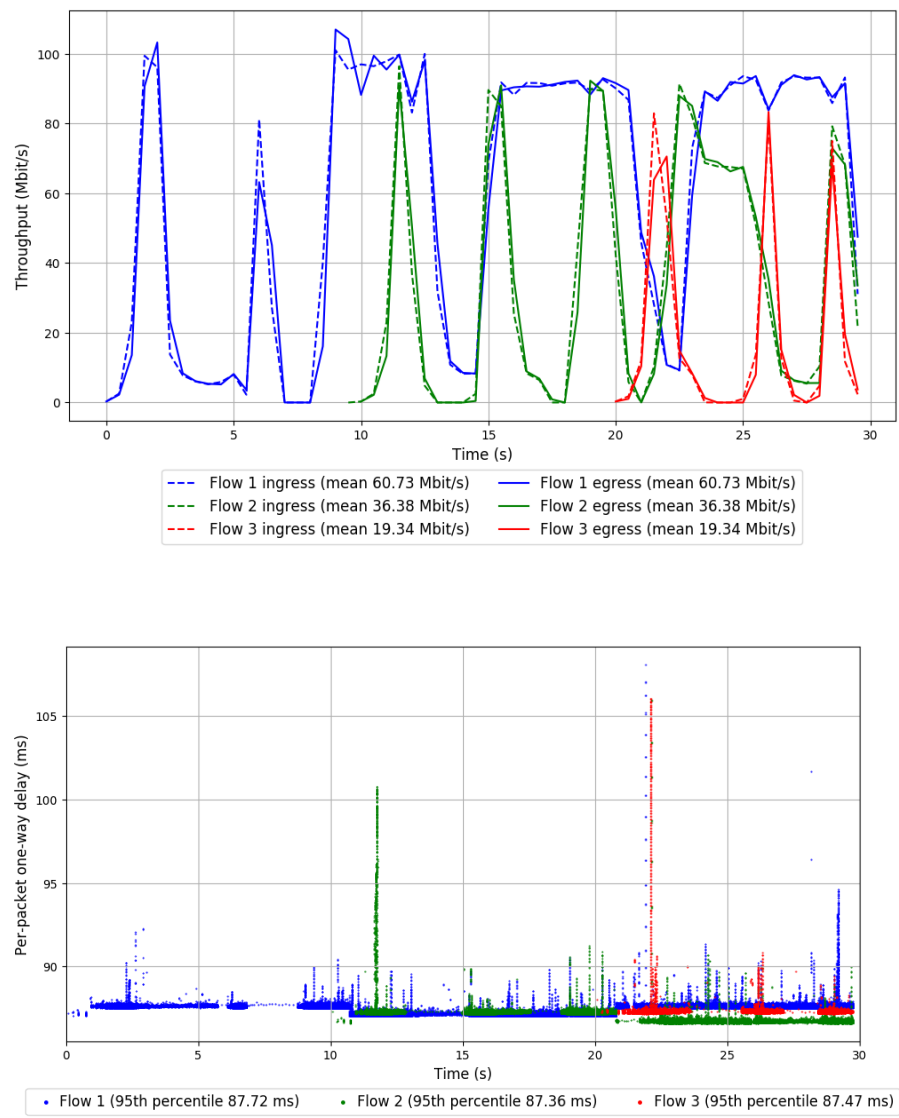
-- Flow 3:

Average throughput: 19.34 Mbit/s

95th percentile per-packet one-way delay: 87.474 ms

Loss rate: 0.00%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-01-09 17:20:59

End at: 2018-01-09 17:21:29

Below is generated by plot.py at 2018-01-09 19:08:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.58 Mbit/s

95th percentile per-packet one-way delay: 87.557 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 57.24 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 48.34 Mbit/s

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

Loss rate: 0.00%

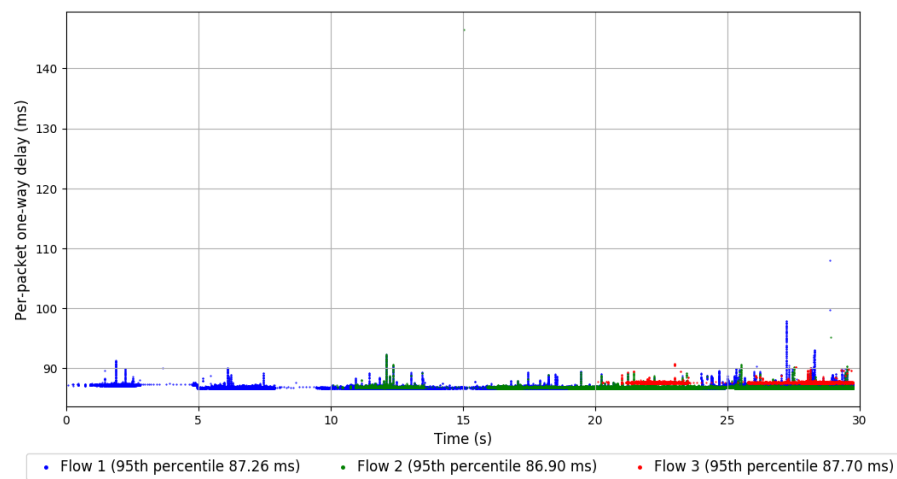
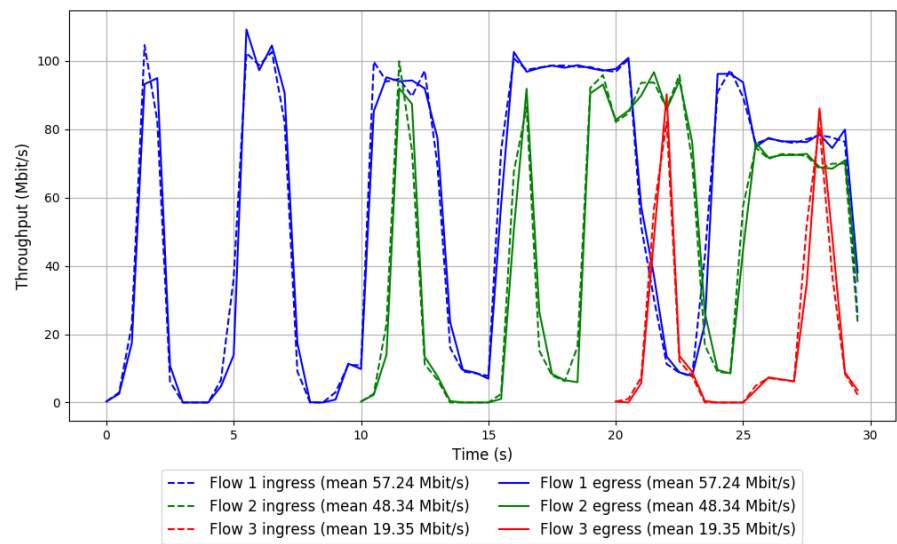
-- Flow 3:

Average throughput: 19.35 Mbit/s

95th percentile per-packet one-way delay: 87.700 ms

Loss rate: 0.00%

Run 10: Report of QUIC Cubic — Data Link

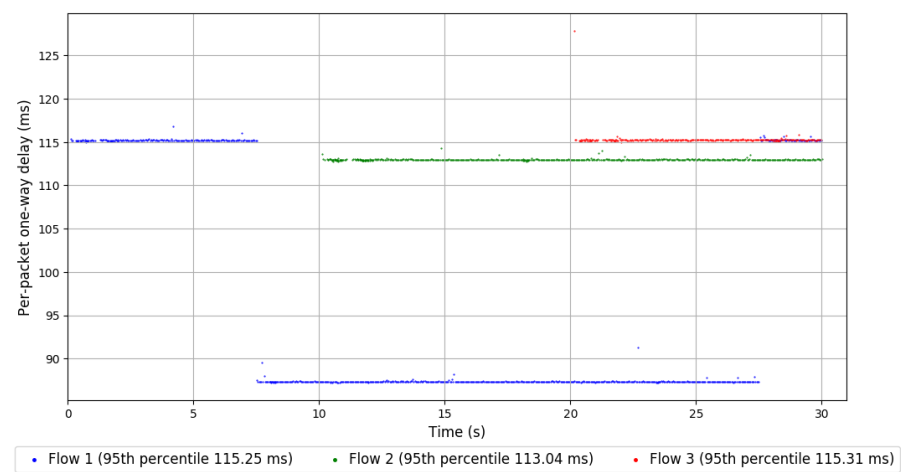
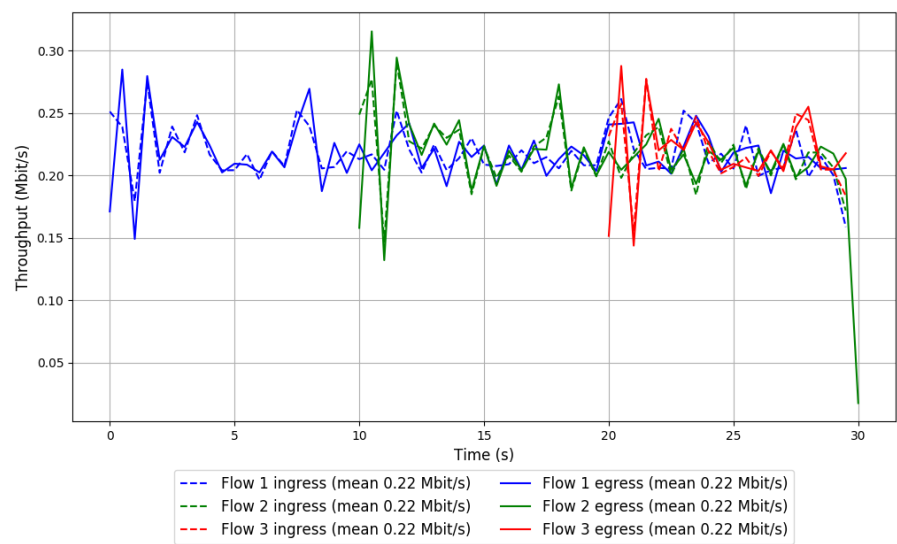


```
Run 1: Statistics of SCReAM

Start at: 2018-01-09 14:57:48
End at: 2018-01-09 14:58:18

# Below is generated by plot.py at 2018-01-09 19:08:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 115.268 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 115.248 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 113.043 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 115.309 ms
Loss rate: 0.35%
```

Run 1: Report of SReAM — Data Link

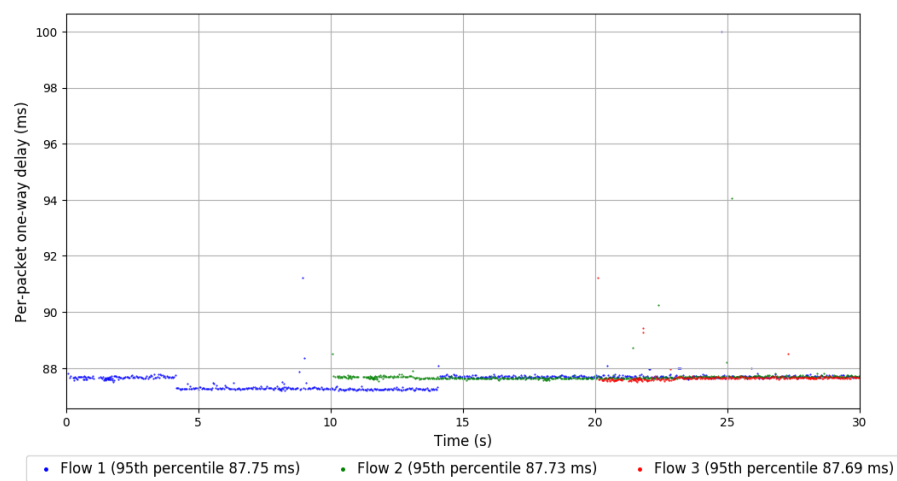
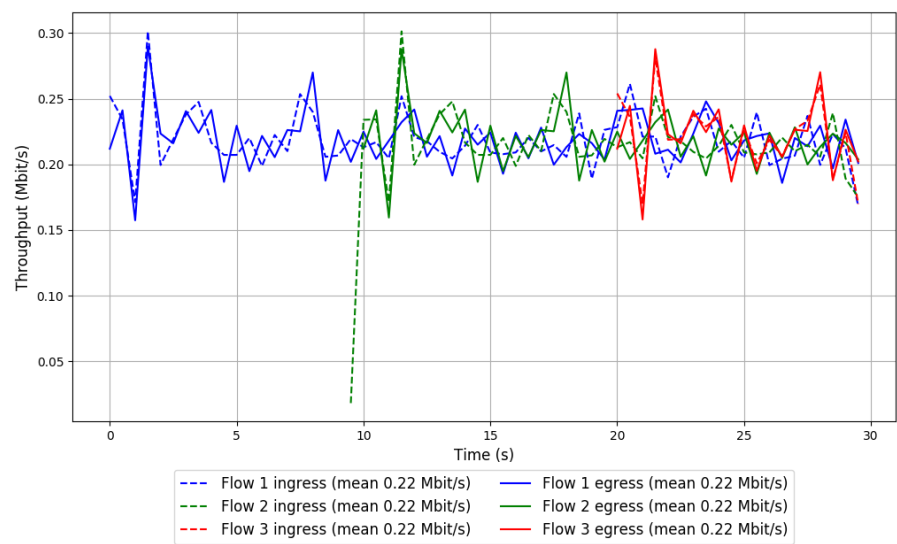


```
Run 2: Statistics of SReAM

Start at: 2018-01-09 15:12:21
End at: 2018-01-09 15:12:51

# Below is generated by plot.py at 2018-01-09 19:08:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 87.739 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 87.753 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 87.732 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 87.693 ms
Loss rate: 0.00%
```

Run 2: Report of SReAM — Data Link

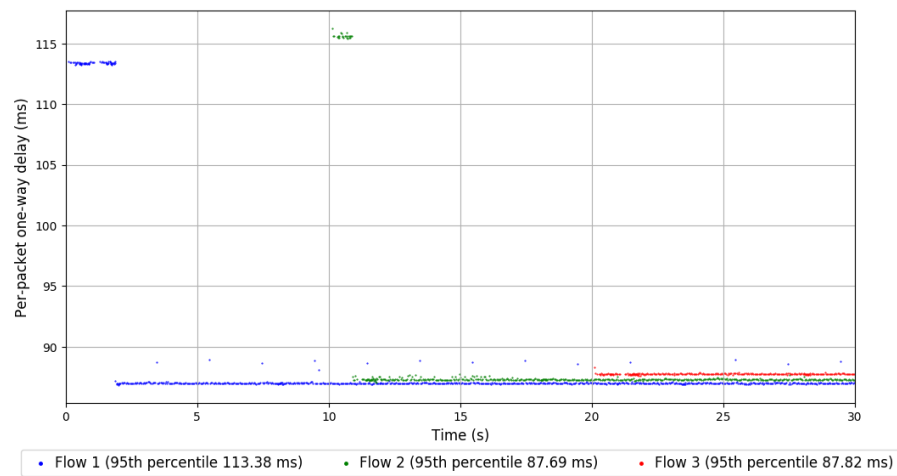
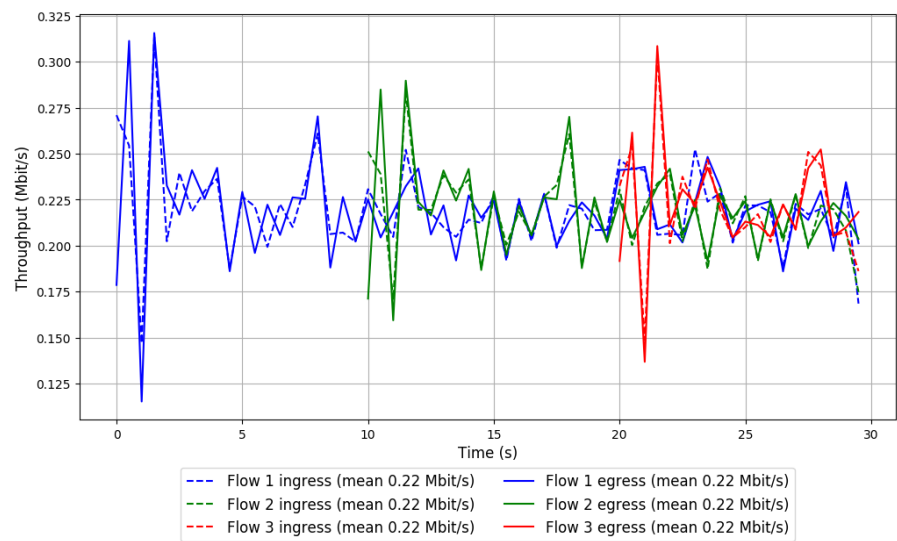


```
Run 3: Statistics of SReAM

Start at: 2018-01-09 15:27:13
End at: 2018-01-09 15:27:43

# Below is generated by plot.py at 2018-01-09 19:08:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 113.314 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 113.379 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 87.685 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 87.823 ms
Loss rate: 0.00%
```


Run 3: Report of SReAM — Data Link

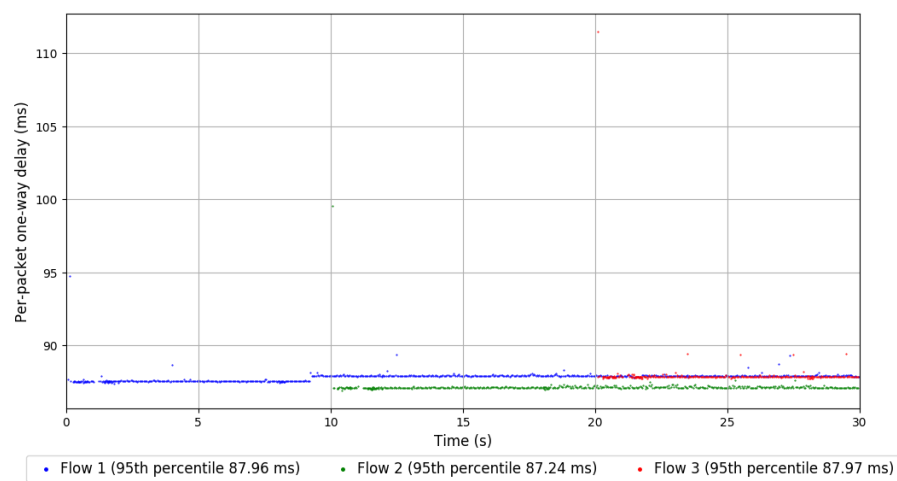
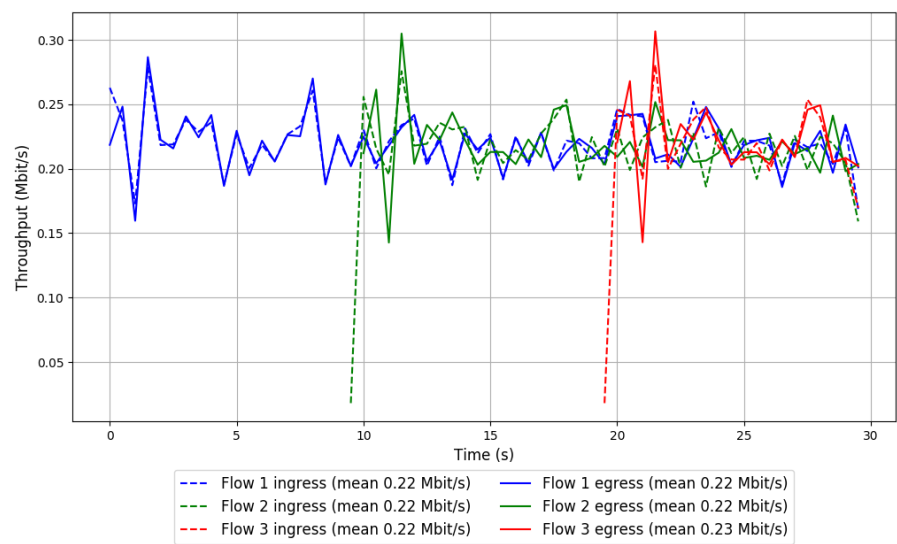


```
Run 4: Statistics of SCReAM

Start at: 2018-01-09 15:41:46
End at: 2018-01-09 15:42:16

# Below is generated by plot.py at 2018-01-09 19:08:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 87.952 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 87.961 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 87.236 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.23 Mbit/s
95th percentile per-packet one-way delay: 87.974 ms
Loss rate: 0.00%
```

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2018-01-09 15:56:25

End at: 2018-01-09 15:56:55

Below is generated by plot.py at 2018-01-09 19:08:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 115.860 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 115.891 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 87.664 ms

Loss rate: 0.00%

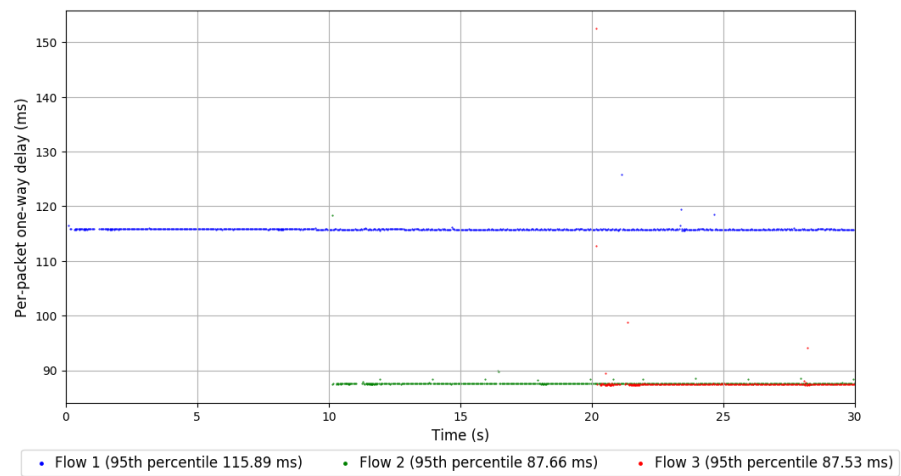
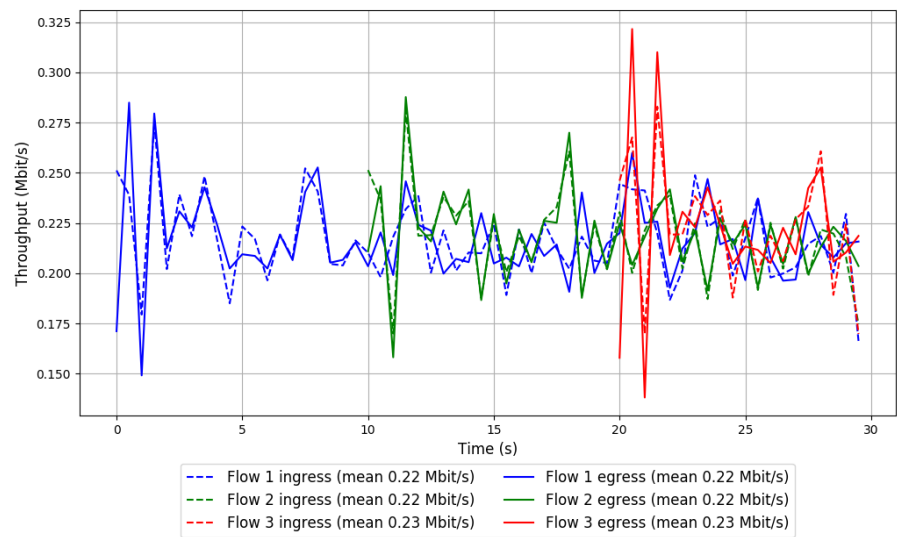
-- Flow 3:

Average throughput: 0.23 Mbit/s

95th percentile per-packet one-way delay: 87.534 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link

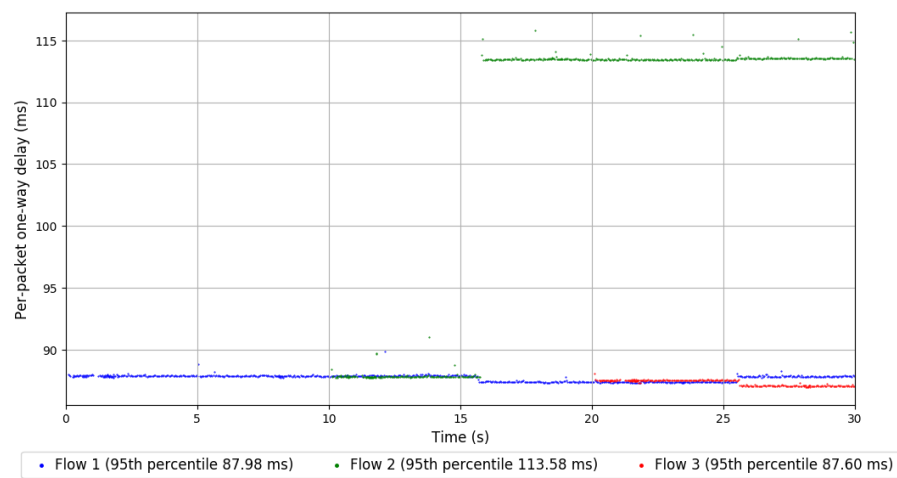
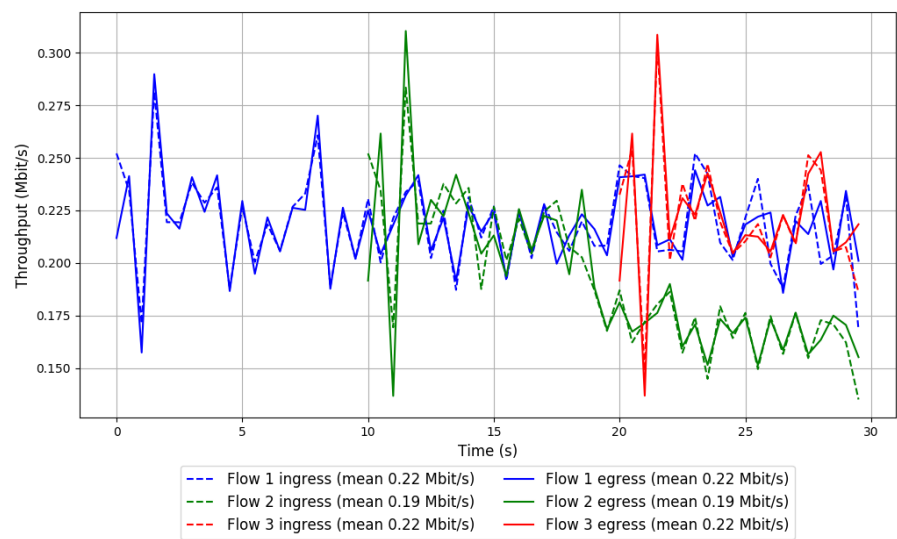


```
Run 6: Statistics of SCReAM

Start at: 2018-01-09 16:11:00
End at: 2018-01-09 16:11:30

# Below is generated by plot.py at 2018-01-09 19:08:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.42 Mbit/s
95th percentile per-packet one-way delay: 113.529 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 87.977 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 113.583 ms
Loss rate: 0.18%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 87.601 ms
Loss rate: 0.00%
```

Run 6: Report of SReAM — Data Link

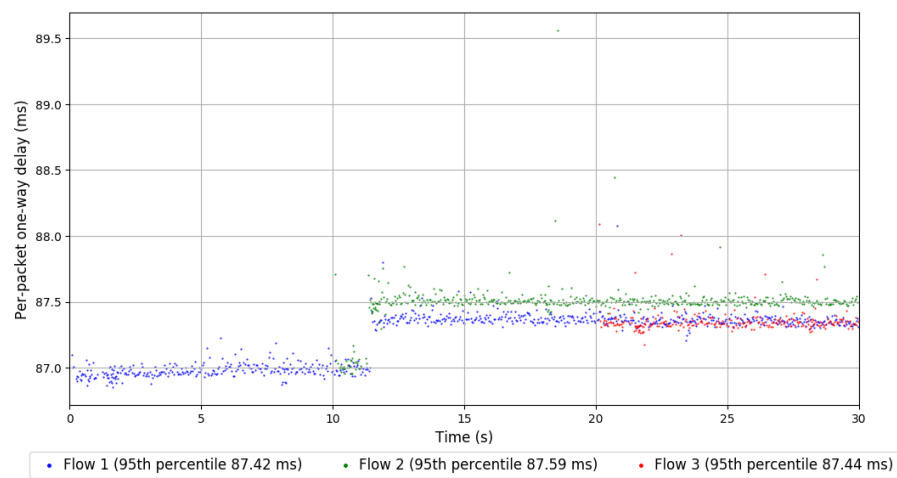
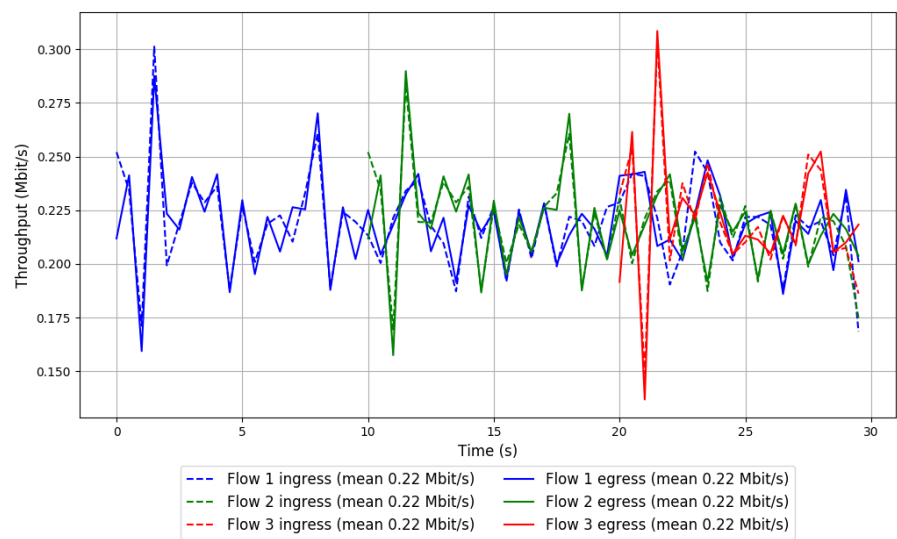


```
Run 7: Statistics of SReAM

Start at: 2018-01-09 16:25:53
End at: 2018-01-09 16:26:23

# Below is generated by plot.py at 2018-01-09 19:08:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 87.537 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 87.417 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 87.587 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 87.435 ms
Loss rate: 0.00%
```


Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-01-09 16:40:29

End at: 2018-01-09 16:40:59

Below is generated by plot.py at 2018-01-09 19:08:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 87.849 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 87.875 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 87.782 ms

Loss rate: 0.00%

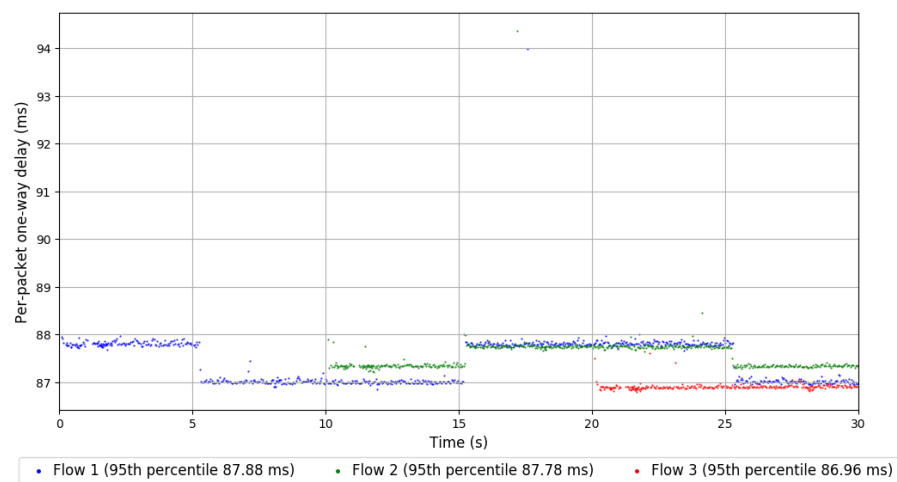
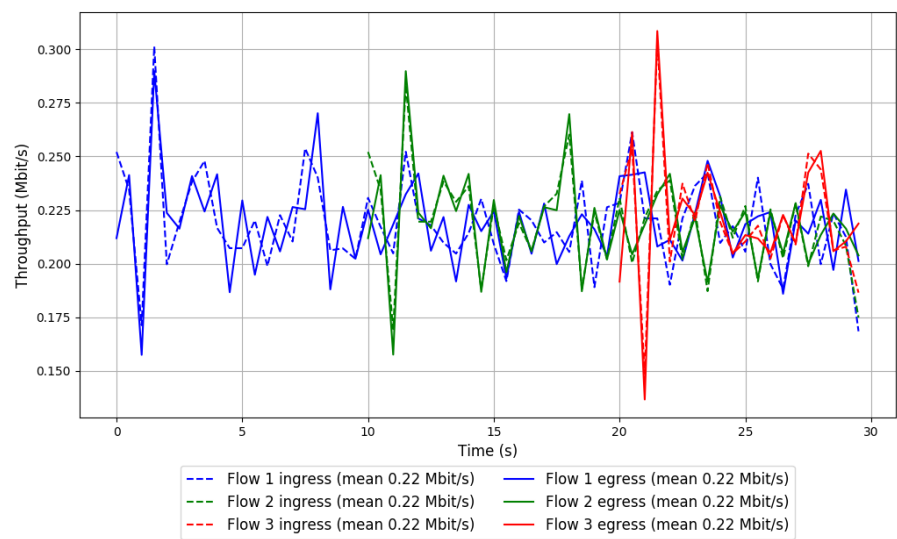
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.961 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SReAM

Start at: 2018-01-09 16:55:29

End at: 2018-01-09 16:55:59

Below is generated by plot.py at 2018-01-09 19:08:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 87.805 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 87.337 ms

Loss rate: 0.00%

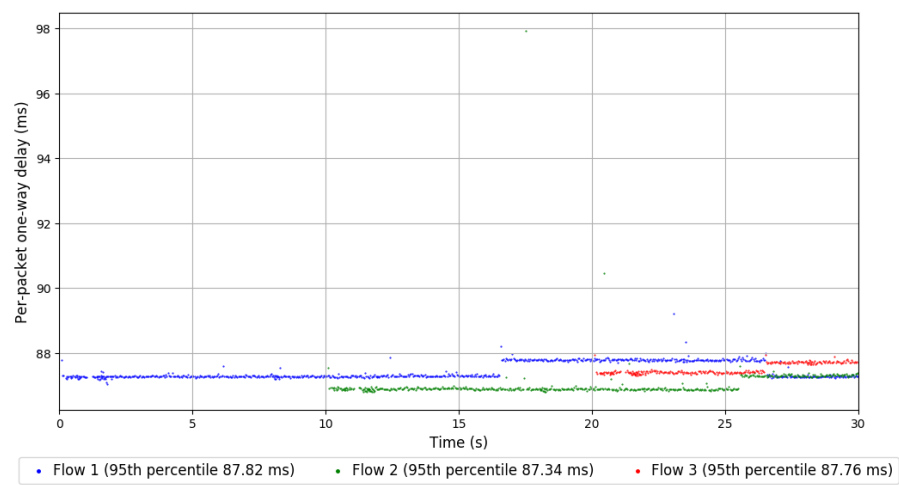
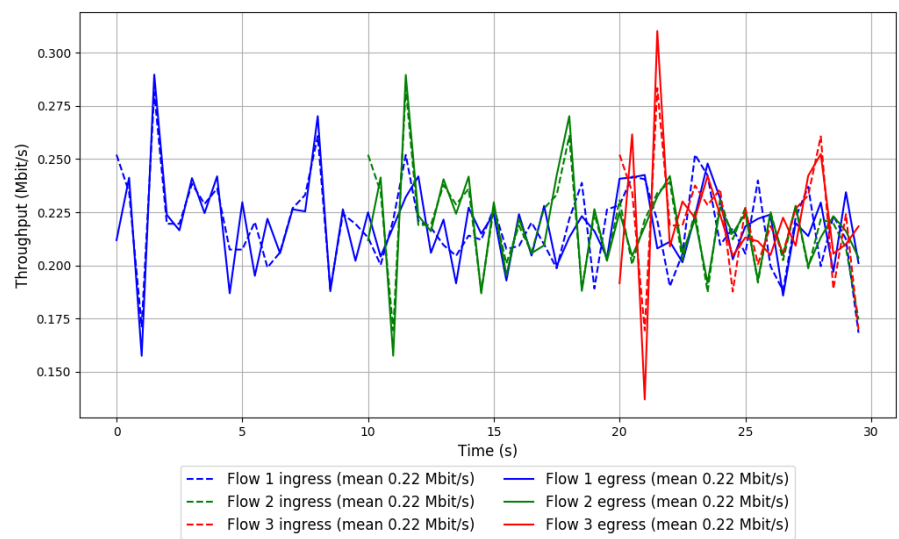
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 87.756 ms

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link

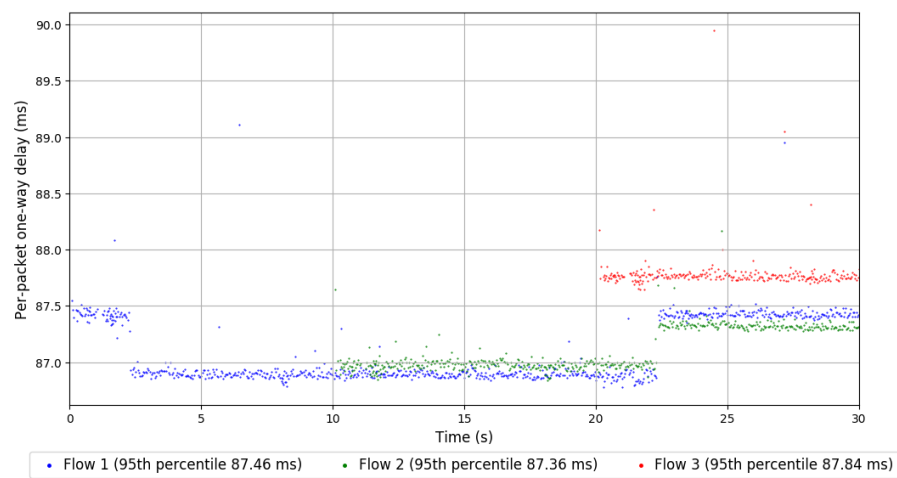
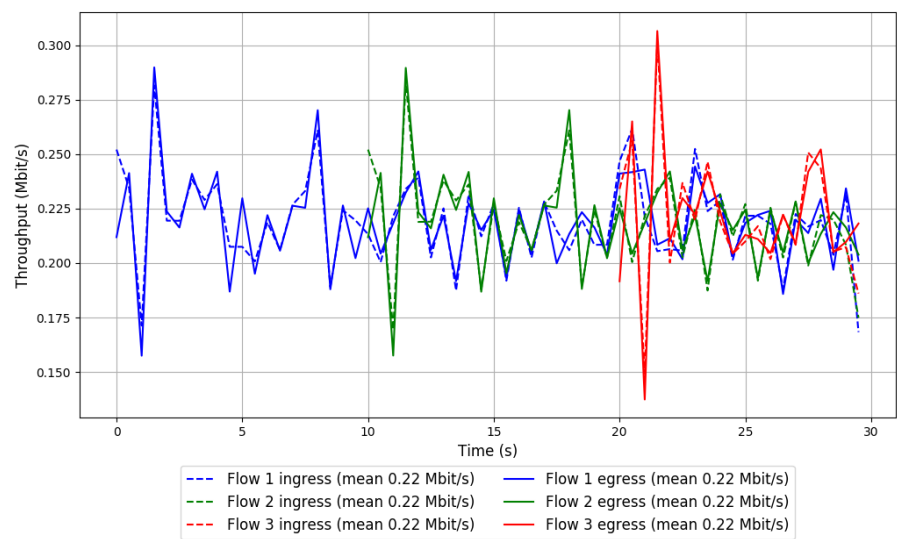


```
Run 10: Statistics of SCReAM

Start at: 2018-01-09 17:10:03
End at: 2018-01-09 17:10:33

# Below is generated by plot.py at 2018-01-09 19:08:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 87.780 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 87.461 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 87.357 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 87.836 ms
Loss rate: 0.00%
```

Run 10: Report of SReAM — Data Link

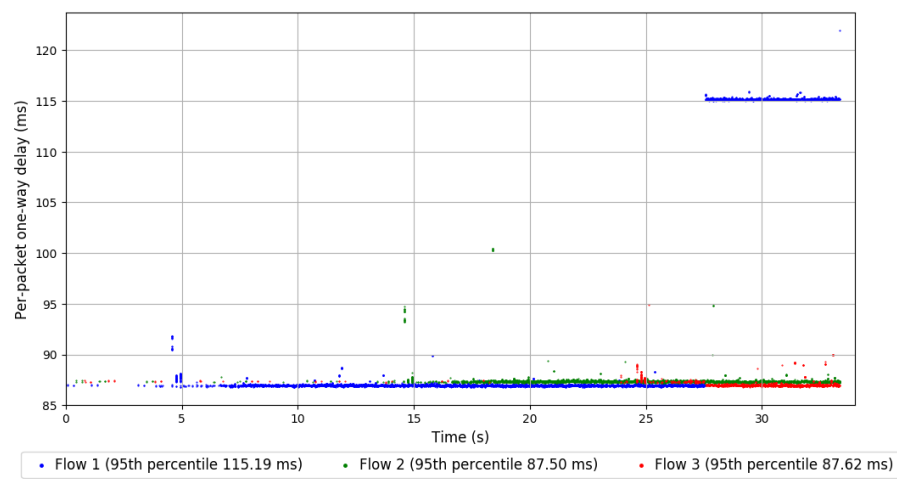
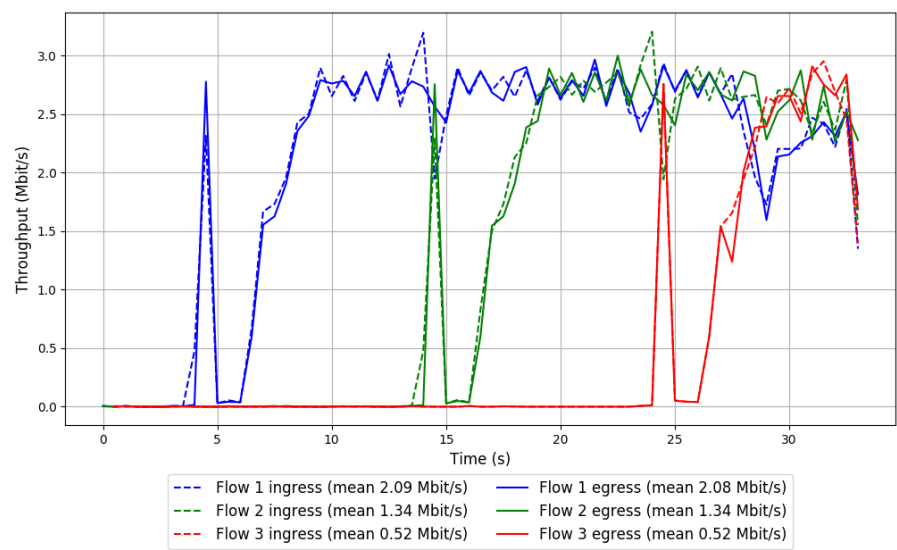


```
Run 1: Statistics of WebRTC media

Start at: 2018-01-09 14:58:31
End at: 2018-01-09 14:59:01

# Below is generated by plot.py at 2018-01-09 19:08:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.91 Mbit/s
95th percentile per-packet one-way delay: 115.159 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 2.08 Mbit/s
95th percentile per-packet one-way delay: 115.192 ms
Loss rate: 0.09%
-- Flow 2:
Average throughput: 1.34 Mbit/s
95th percentile per-packet one-way delay: 87.495 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.52 Mbit/s
95th percentile per-packet one-way delay: 87.619 ms
Loss rate: 0.00%
```


Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-01-09 15:13:05

End at: 2018-01-09 15:13:35

Below is generated by plot.py at 2018-01-09 19:08:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.98 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.14 Mbit/s

95th percentile per-packet one-way delay: 87.316 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.34 Mbit/s

95th percentile per-packet one-way delay: 87.859 ms

Loss rate: 0.00%

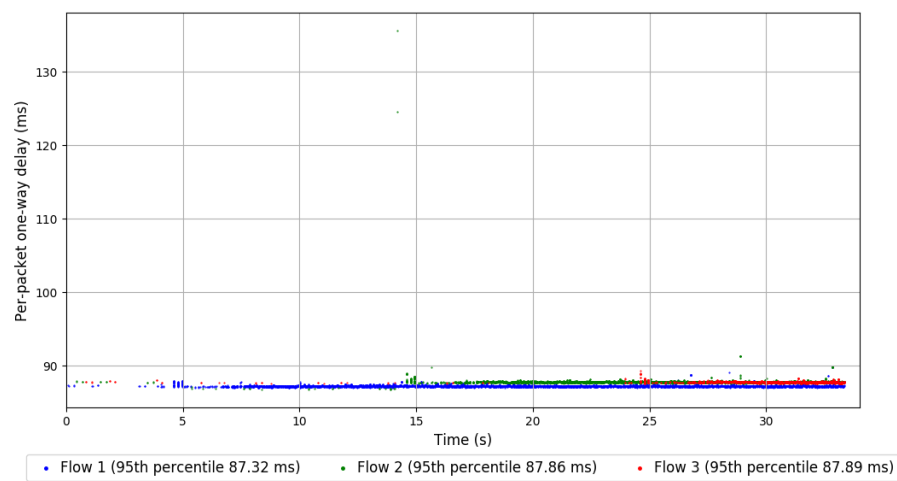
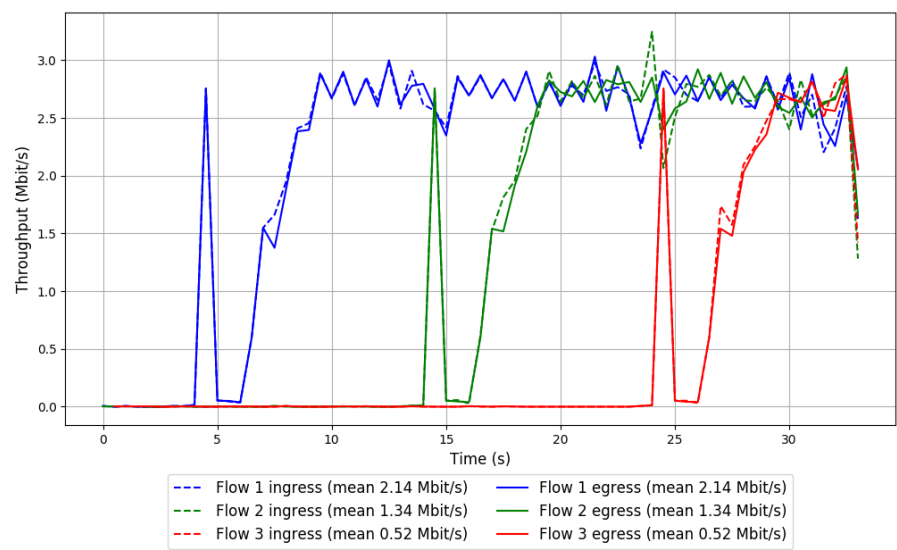
-- Flow 3:

Average throughput: 0.52 Mbit/s

95th percentile per-packet one-way delay: 87.889 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-01-09 15:27:57

End at: 2018-01-09 15:28:27

Below is generated by plot.py at 2018-01-09 19:08:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.95 Mbit/s

95th percentile per-packet one-way delay: 115.743 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 115.773 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.33 Mbit/s

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

Loss rate: 0.00%

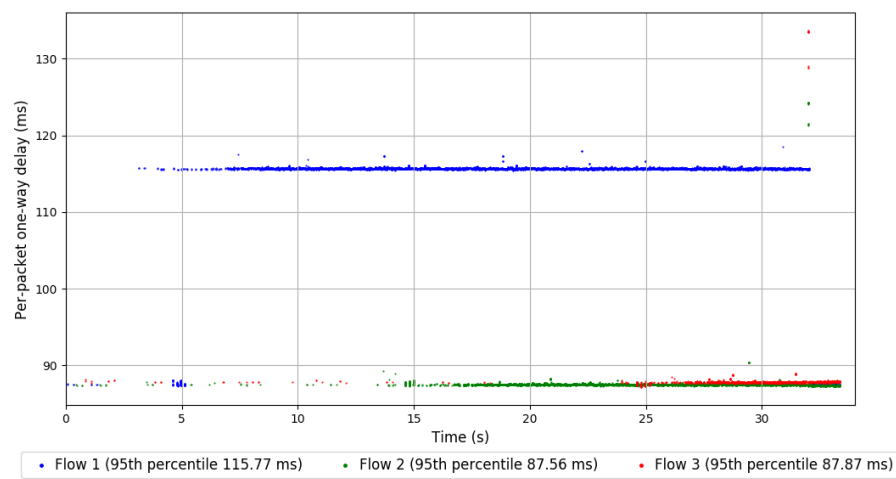
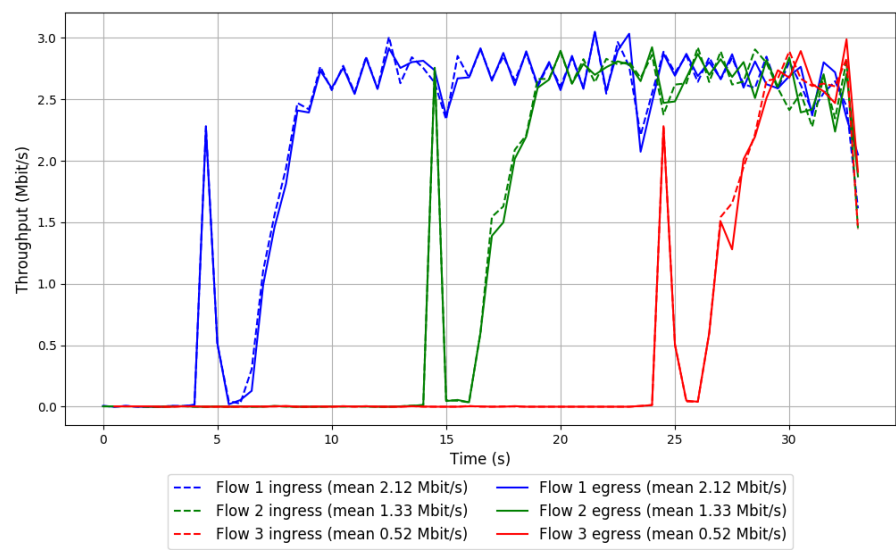
-- Flow 3:

Average throughput: 0.52 Mbit/s

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

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-01-09 15:42:30

End at: 2018-01-09 15:43:00

Below is generated by plot.py at 2018-01-09 19:08:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.92 Mbit/s

95th percentile per-packet one-way delay: 115.820 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 2.09 Mbit/s

95th percentile per-packet one-way delay: 115.854 ms

Loss rate: 0.15%

-- Flow 2:

Average throughput: 1.34 Mbit/s

95th percentile per-packet one-way delay: 88.140 ms

Loss rate: 0.00%

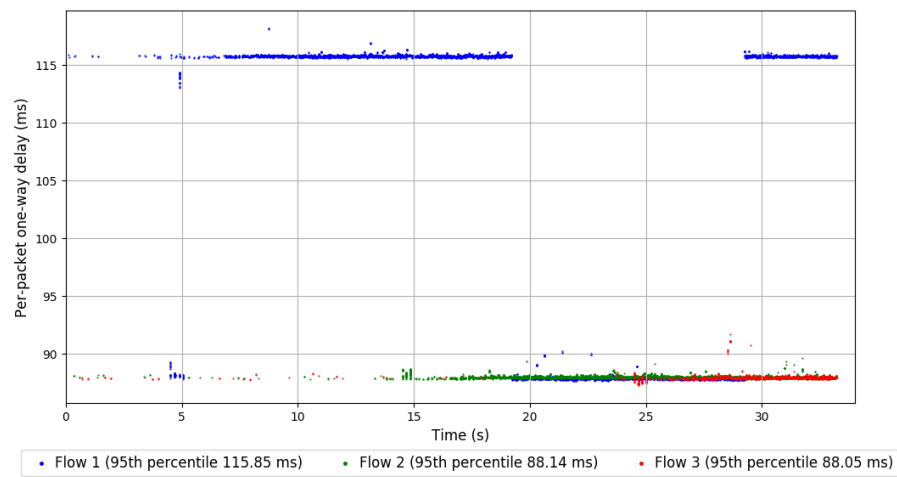
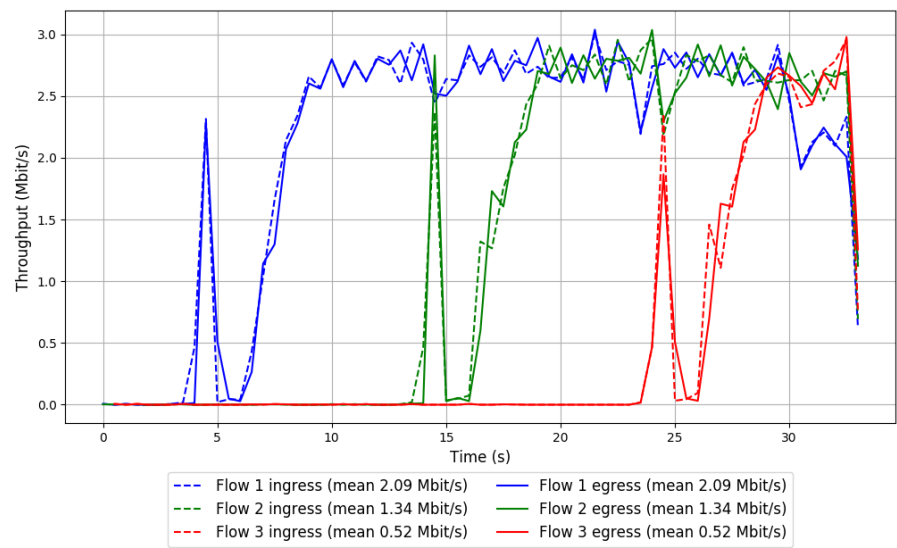
-- Flow 3:

Average throughput: 0.52 Mbit/s

95th percentile per-packet one-way delay: 88.052 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-01-09 15:57:08

End at: 2018-01-09 15:57:38

Below is generated by plot.py at 2018-01-09 19:08:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.06 Mbit/s

95th percentile per-packet one-way delay: 115.766 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 2.14 Mbit/s

95th percentile per-packet one-way delay: 113.687 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 1.41 Mbit/s

95th percentile per-packet one-way delay: 87.757 ms

Loss rate: 0.00%

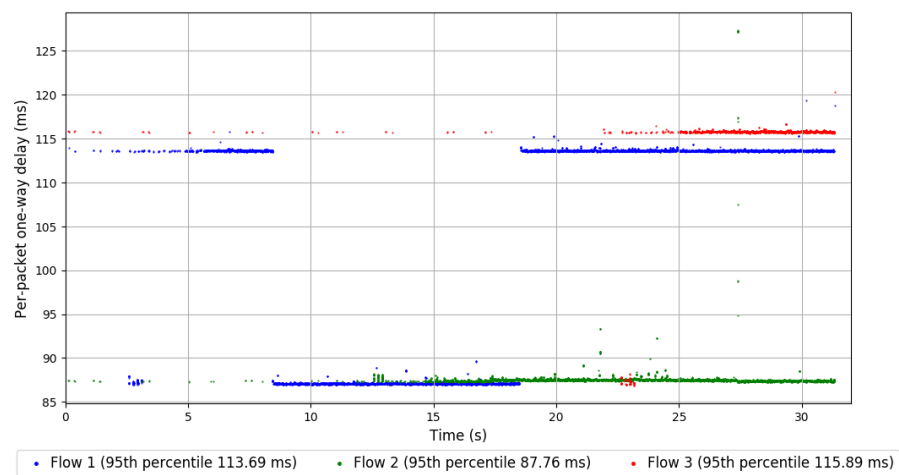
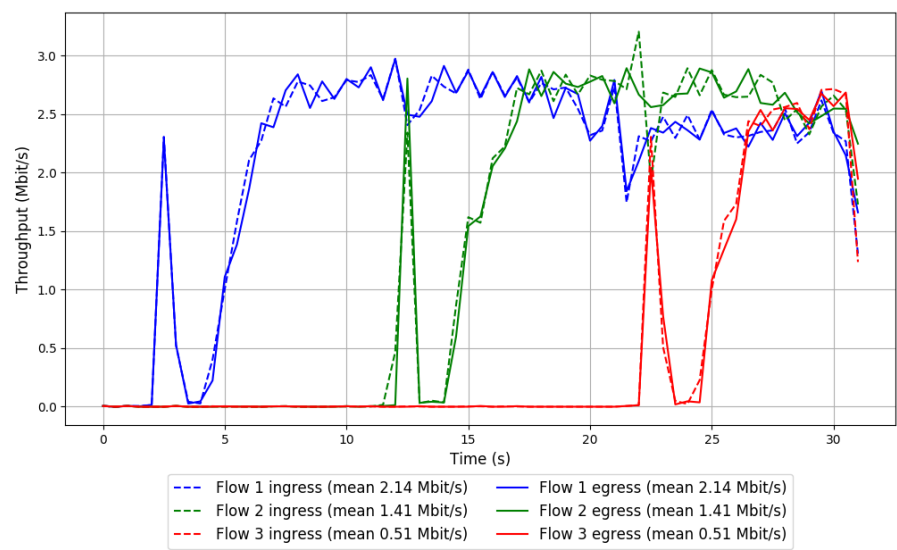
-- Flow 3:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 115.892 ms

Loss rate: 0.18%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-01-09 16:11:43

End at: 2018-01-09 16:12:13

Below is generated by plot.py at 2018-01-09 19:08:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.95 Mbit/s

95th percentile per-packet one-way delay: 113.533 ms

Loss rate: 0.11%

-- Flow 1:

Average throughput: 2.14 Mbit/s

95th percentile per-packet one-way delay: 87.435 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.34 Mbit/s

95th percentile per-packet one-way delay: 87.598 ms

Loss rate: 0.00%

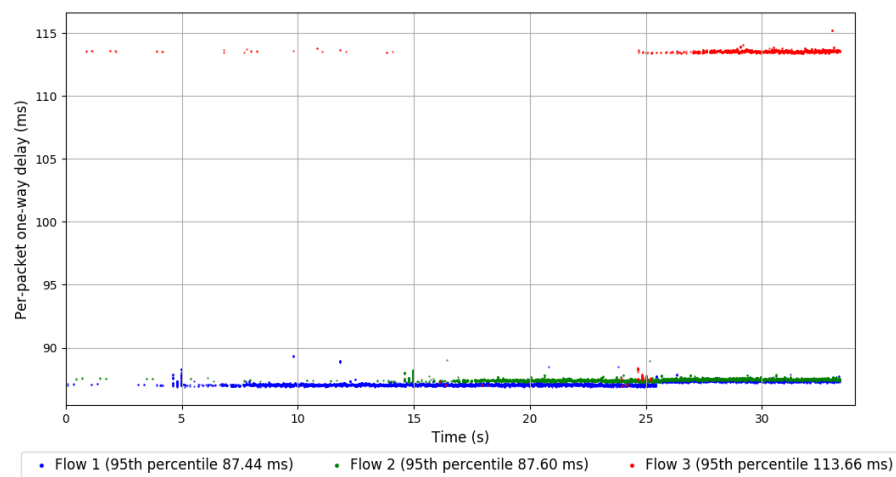
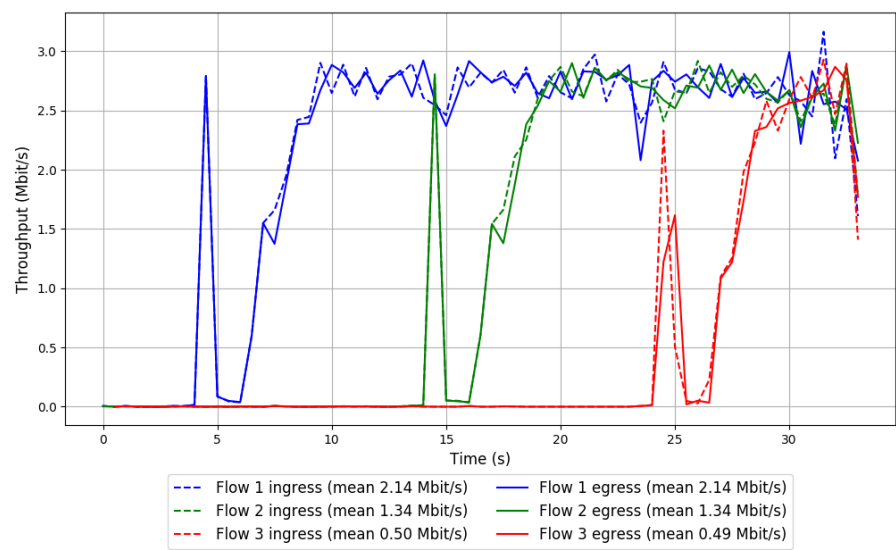
-- Flow 3:

Average throughput: 0.49 Mbit/s

95th percentile per-packet one-way delay: 113.664 ms

Loss rate: 0.88%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-01-09 16:26:36

End at: 2018-01-09 16:27:06

Below is generated by plot.py at 2018-01-09 19:08:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.97 Mbit/s

95th percentile per-packet one-way delay: 87.808 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.14 Mbit/s

95th percentile per-packet one-way delay: 87.441 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.34 Mbit/s

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

Loss rate: 0.00%

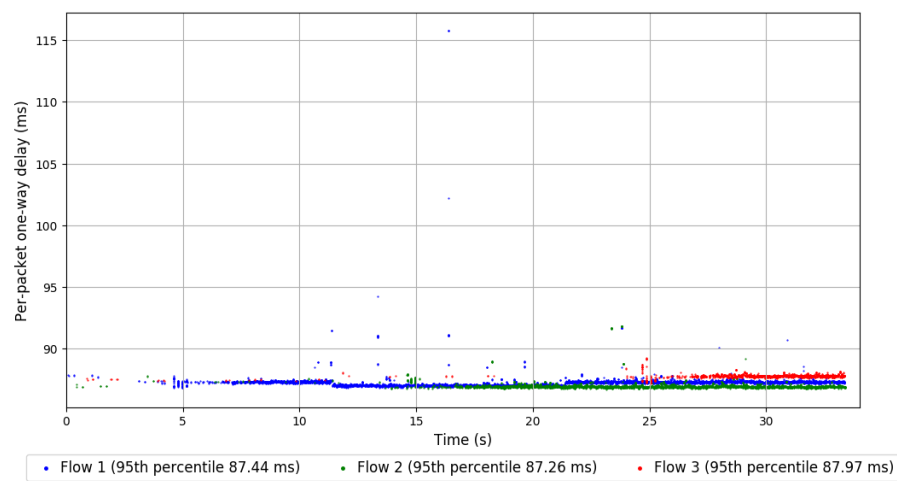
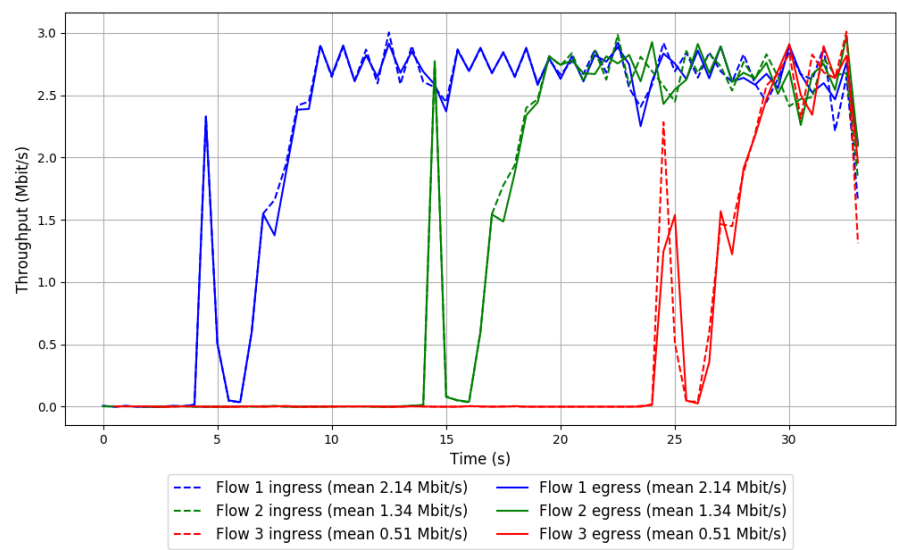
-- Flow 3:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 87.967 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-01-09 16:41:13

End at: 2018-01-09 16:41:43

Below is generated by plot.py at 2018-01-09 19:08:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.97 Mbit/s

95th percentile per-packet one-way delay: 87.851 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 87.854 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.34 Mbit/s

95th percentile per-packet one-way delay: 87.867 ms

Loss rate: 0.00%

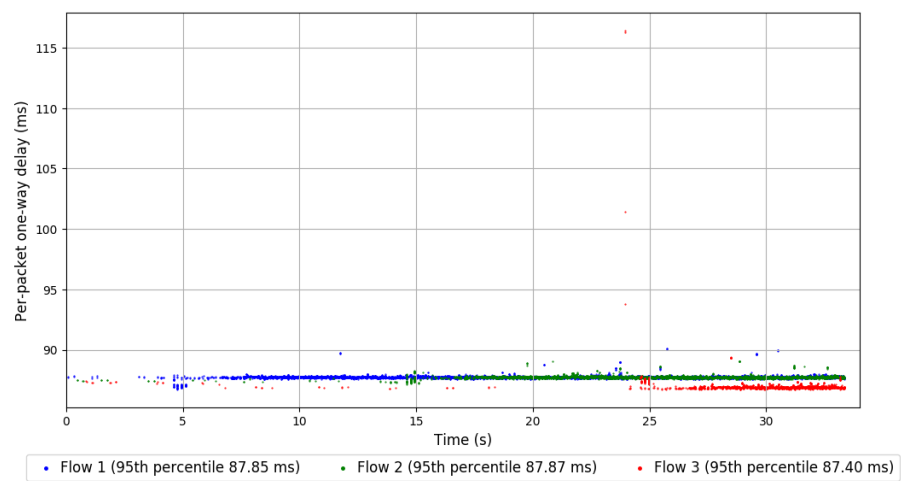
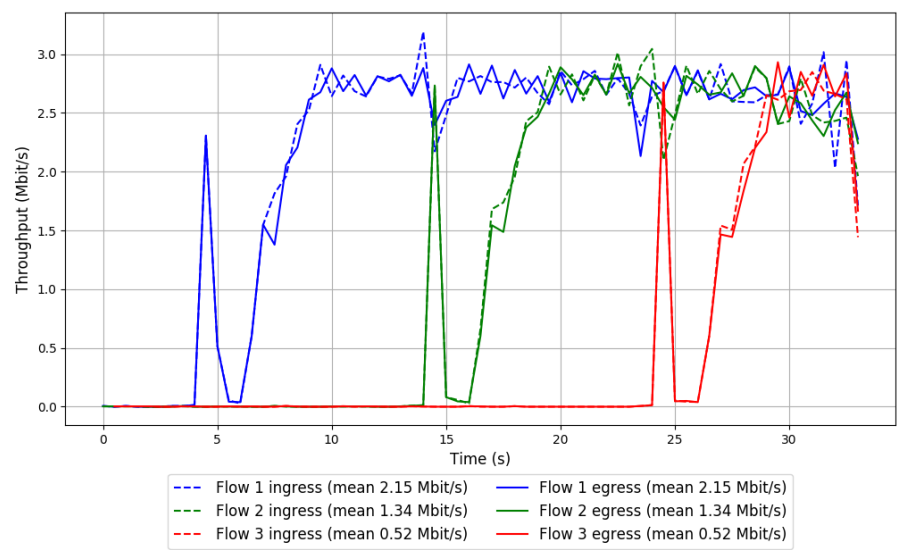
-- Flow 3:

Average throughput: 0.52 Mbit/s

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

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-01-09 16:56:12

End at: 2018-01-09 16:56:42

Below is generated by plot.py at 2018-01-09 19:08:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.96 Mbit/s

95th percentile per-packet one-way delay: 87.801 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.14 Mbit/s

95th percentile per-packet one-way delay: 87.852 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.32 Mbit/s

95th percentile per-packet one-way delay: 87.552 ms

Loss rate: 0.00%

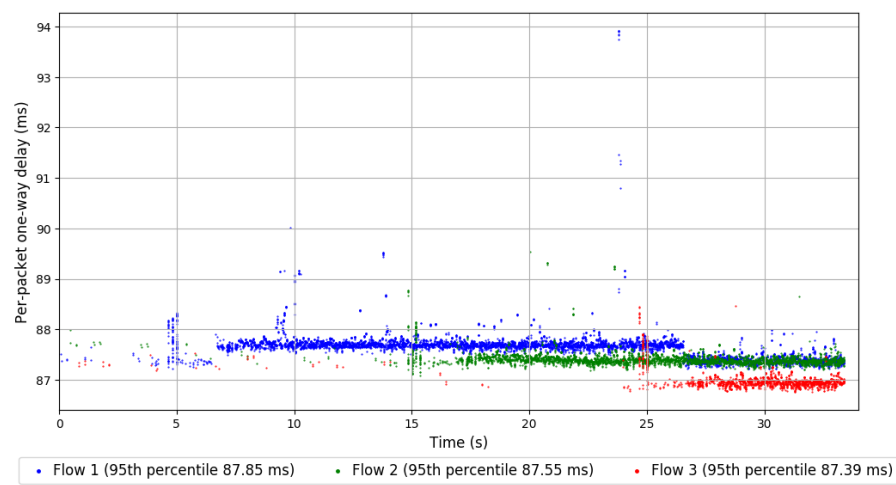
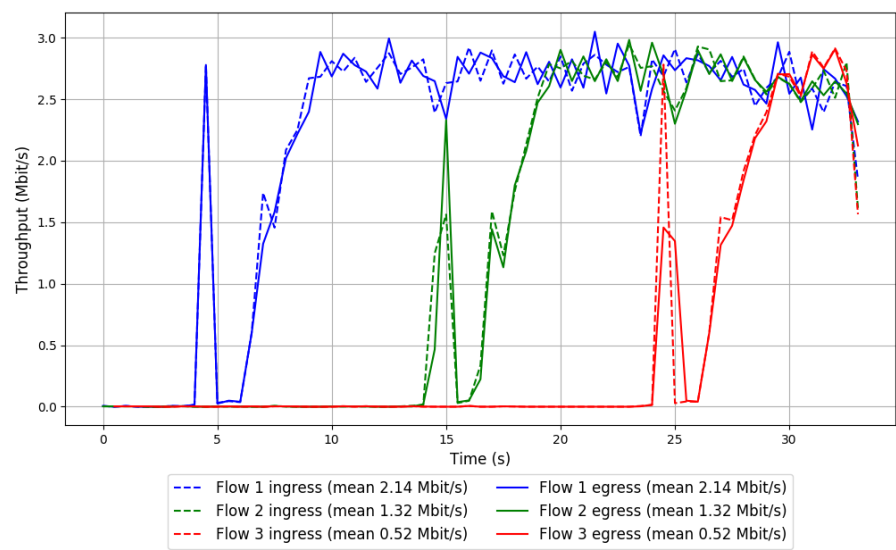
-- Flow 3:

Average throughput: 0.52 Mbit/s

95th percentile per-packet one-way delay: 87.388 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-01-09 17:10:47

End at: 2018-01-09 17:11:17

Below is generated by plot.py at 2018-01-09 19:08:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.96 Mbit/s

95th percentile per-packet one-way delay: 87.054 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.13 Mbit/s

95th percentile per-packet one-way delay: 87.021 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.33 Mbit/s

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

Loss rate: 0.00%

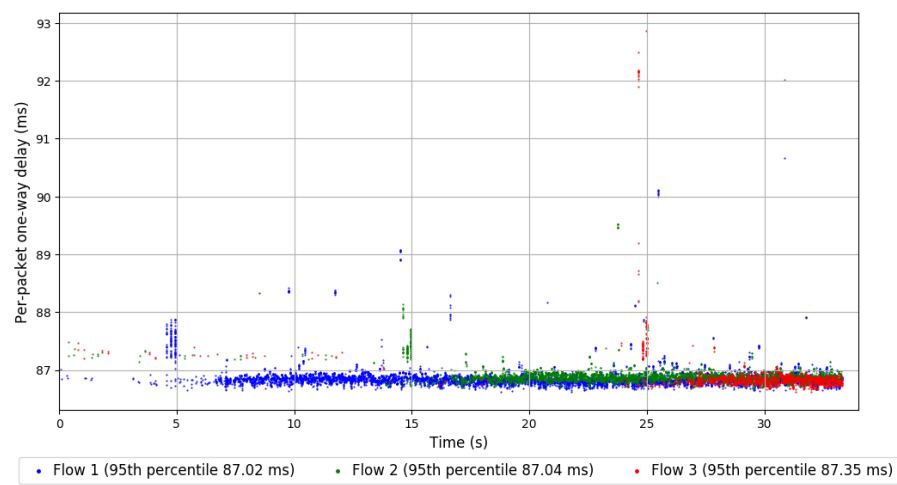
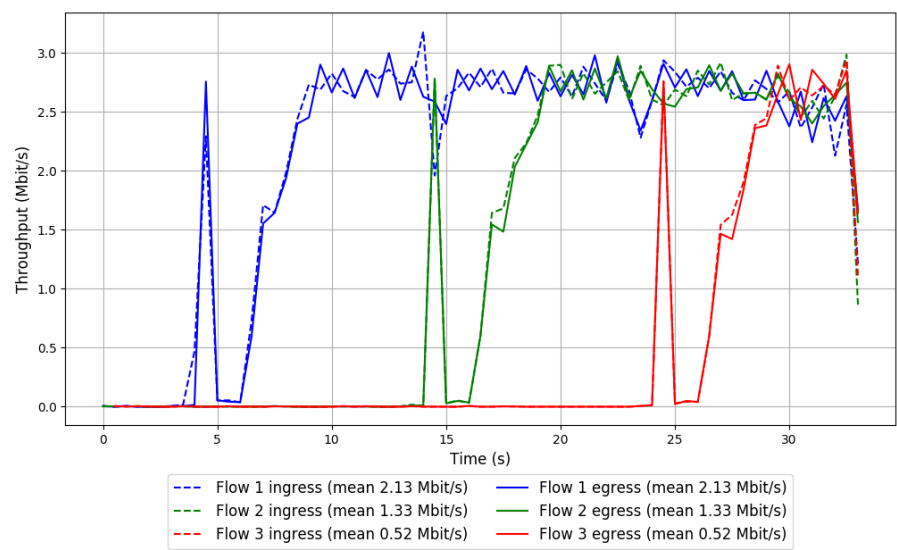
-- Flow 3:

Average throughput: 0.52 Mbit/s

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

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2018-01-09 14:59:15

End at: 2018-01-09 14:59:45

Below is generated by plot.py at 2018-01-09 19:08:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.94 Mbit/s

95th percentile per-packet one-way delay: 113.172 ms

Loss rate: 1.63%

-- Flow 1:

Average throughput: 2.07 Mbit/s

95th percentile per-packet one-way delay: 115.084 ms

Loss rate: 1.35%

-- Flow 2:

Average throughput: 2.47 Mbit/s

95th percentile per-packet one-way delay: 88.413 ms

Loss rate: 1.48%

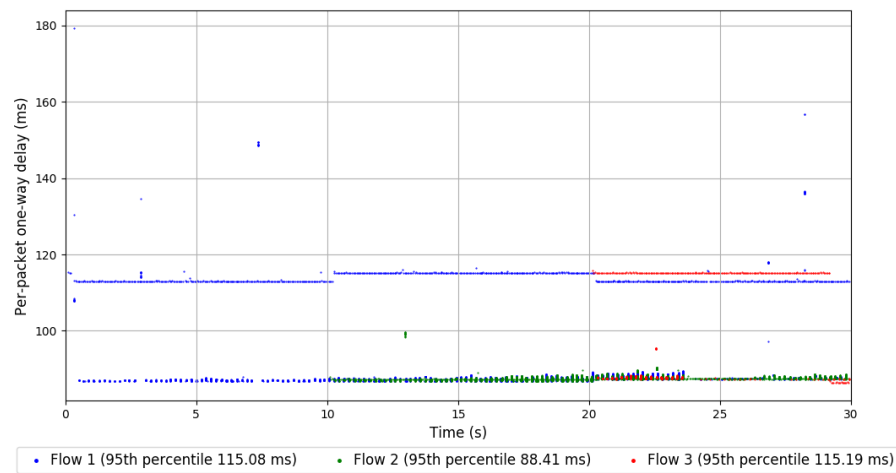
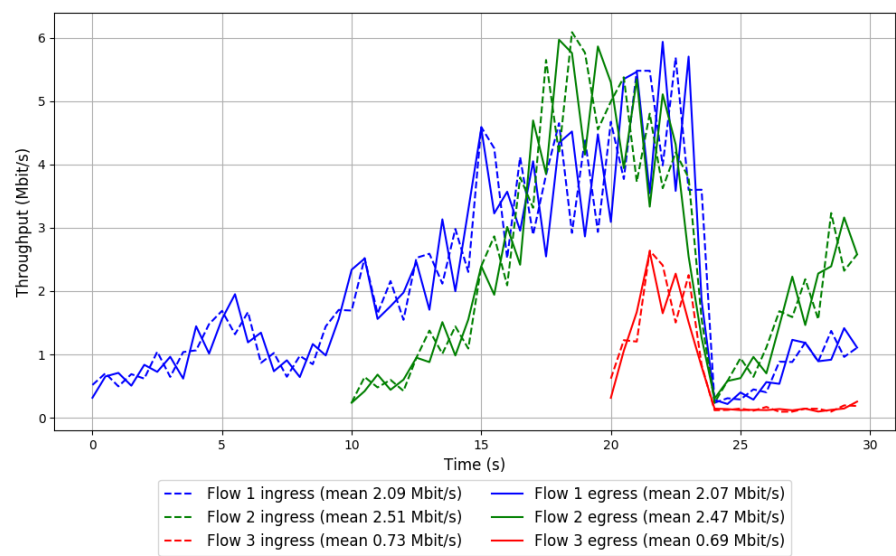
-- Flow 3:

Average throughput: 0.69 Mbit/s

95th percentile per-packet one-way delay: 115.187 ms

Loss rate: 5.14%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-01-09 15:13:48

End at: 2018-01-09 15:14:18

Below is generated by plot.py at 2018-01-09 19:08:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 5.71 Mbit/s

95th percentile per-packet one-way delay: 89.020 ms

Loss rate: 0.93%

-- Flow 1:

Average throughput: 3.51 Mbit/s

95th percentile per-packet one-way delay: 88.830 ms

Loss rate: 0.76%

-- Flow 2:

Average throughput: 3.17 Mbit/s

95th percentile per-packet one-way delay: 89.394 ms

Loss rate: 0.84%

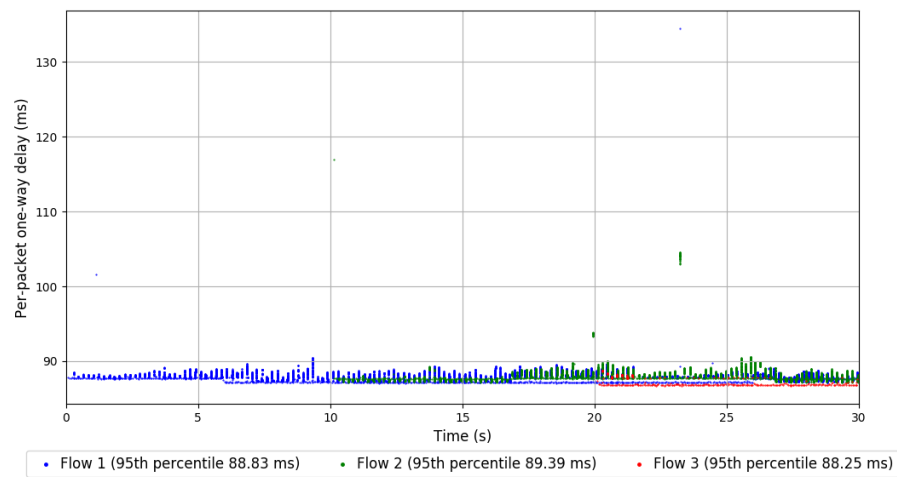
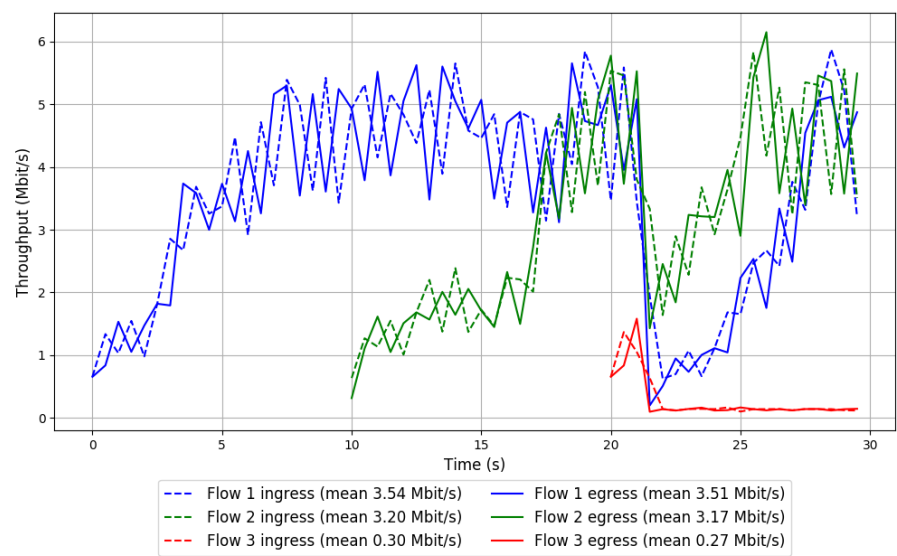
-- Flow 3:

Average throughput: 0.27 Mbit/s

95th percentile per-packet one-way delay: 88.249 ms

Loss rate: 8.88%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-01-09 15:28:41

End at: 2018-01-09 15:29:11

Below is generated by plot.py at 2018-01-09 19:08:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.44 Mbit/s

95th percentile per-packet one-way delay: 89.036 ms

Loss rate: 2.77%

-- Flow 1:

Average throughput: 1.66 Mbit/s

95th percentile per-packet one-way delay: 88.987 ms

Loss rate: 4.79%

-- Flow 2:

Average throughput: 3.31 Mbit/s

95th percentile per-packet one-way delay: 89.081 ms

Loss rate: 1.21%

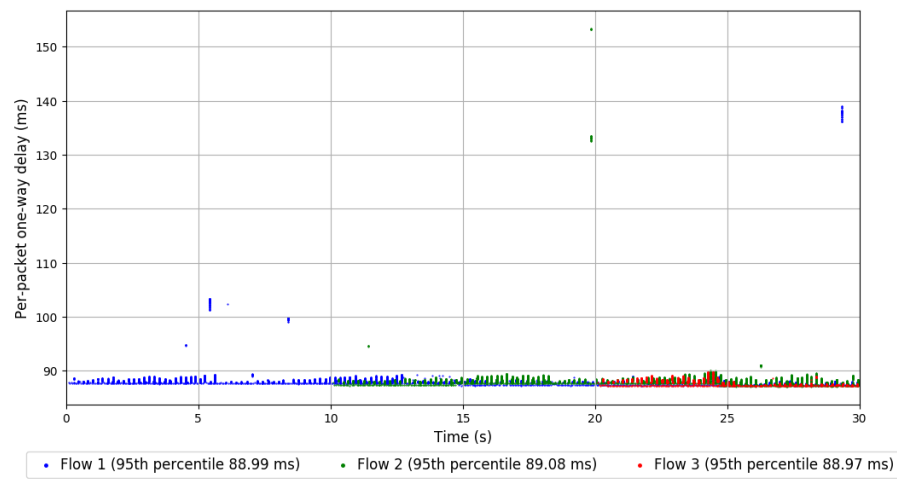
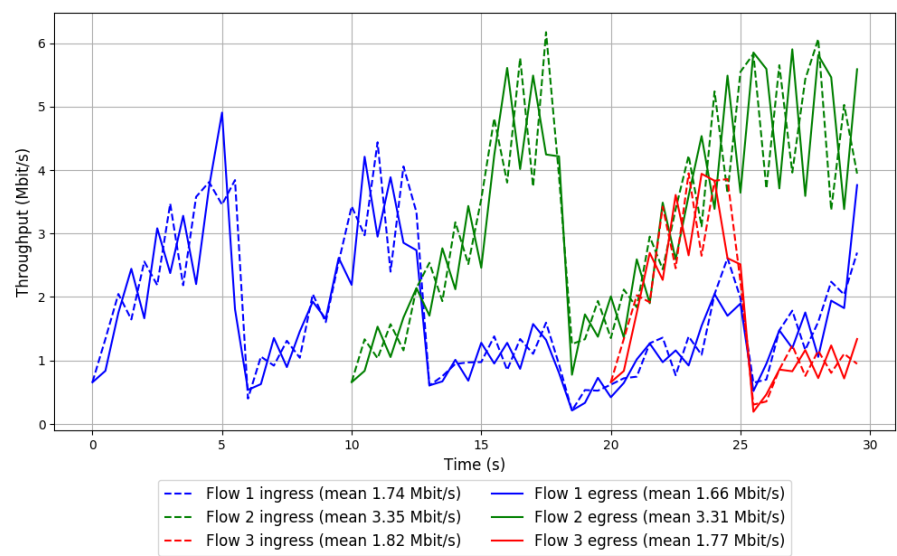
-- Flow 3:

Average throughput: 1.77 Mbit/s

95th percentile per-packet one-way delay: 88.970 ms

Loss rate: 2.71%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-01-09 15:43:13

End at: 2018-01-09 15:43:43

Below is generated by plot.py at 2018-01-09 19:08:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.61 Mbit/s

95th percentile per-packet one-way delay: 113.503 ms

Loss rate: 0.83%

-- Flow 1:

Average throughput: 3.24 Mbit/s

95th percentile per-packet one-way delay: 89.327 ms

Loss rate: 1.00%

-- Flow 2:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 115.773 ms

Loss rate: 2.35%

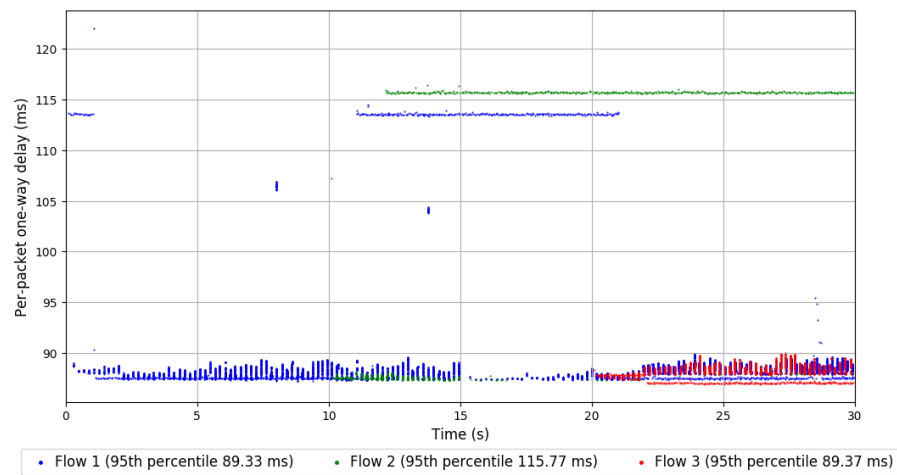
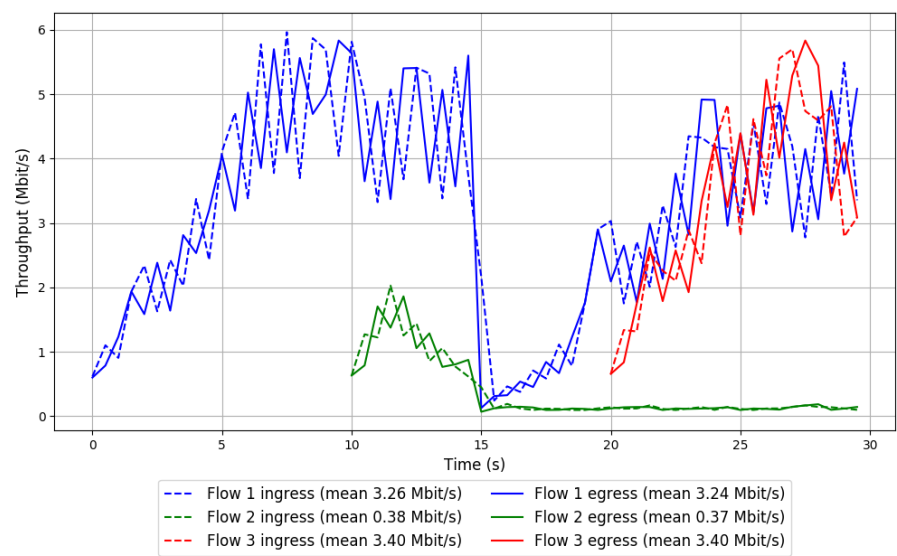
-- Flow 3:

Average throughput: 3.40 Mbit/s

95th percentile per-packet one-way delay: 89.369 ms

Loss rate: 0.00%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-01-09 15:57:52

End at: 2018-01-09 15:58:22

Below is generated by plot.py at 2018-01-09 19:08:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.22 Mbit/s

95th percentile per-packet one-way delay: 89.247 ms

Loss rate: 1.03%

-- Flow 1:

Average throughput: 3.14 Mbit/s

95th percentile per-packet one-way delay: 88.744 ms

Loss rate: 1.09%

-- Flow 2:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 115.774 ms

Loss rate: 7.23%

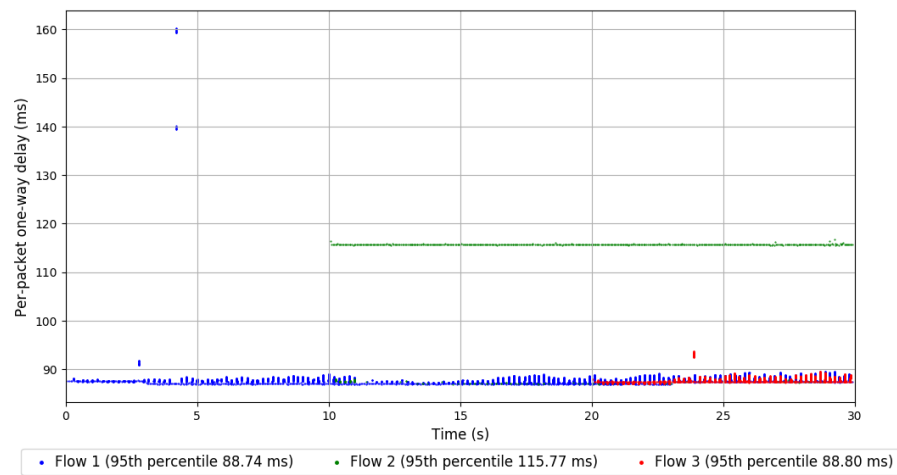
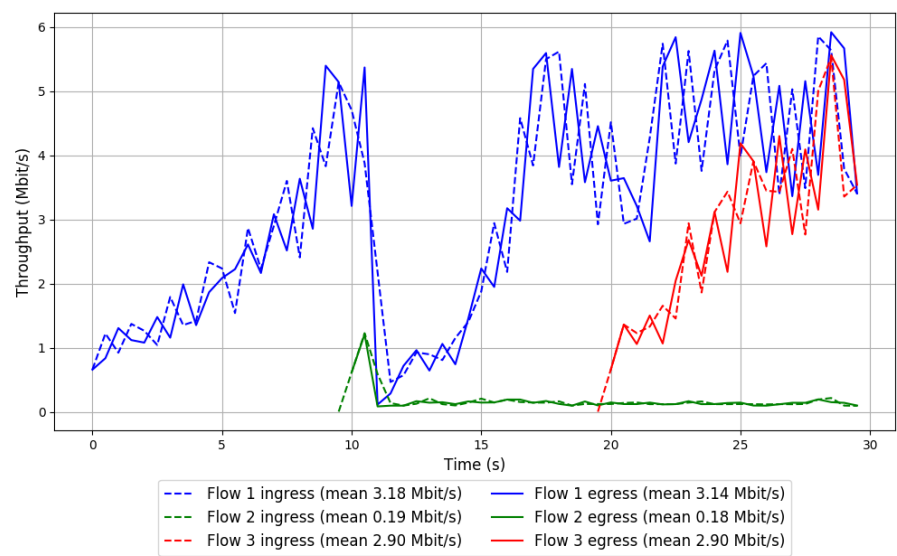
-- Flow 3:

Average throughput: 2.90 Mbit/s

95th percentile per-packet one-way delay: 88.795 ms

Loss rate: 0.00%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-01-09 16:12:27

End at: 2018-01-09 16:12:57

Below is generated by plot.py at 2018-01-09 19:08:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 5.06 Mbit/s

95th percentile per-packet one-way delay: 103.143 ms

Loss rate: 1.17%

-- Flow 1:

Average throughput: 1.74 Mbit/s

95th percentile per-packet one-way delay: 113.488 ms

Loss rate: 1.55%

-- Flow 2:

Average throughput: 3.21 Mbit/s

95th percentile per-packet one-way delay: 88.769 ms

Loss rate: 1.51%

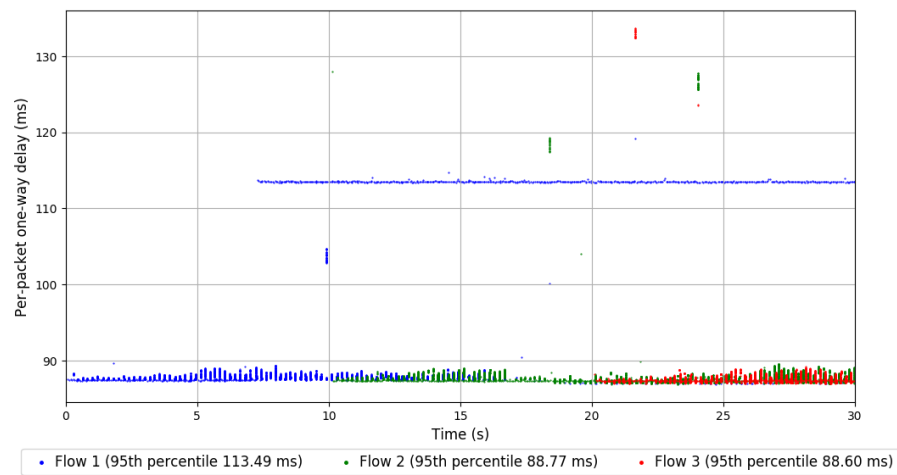
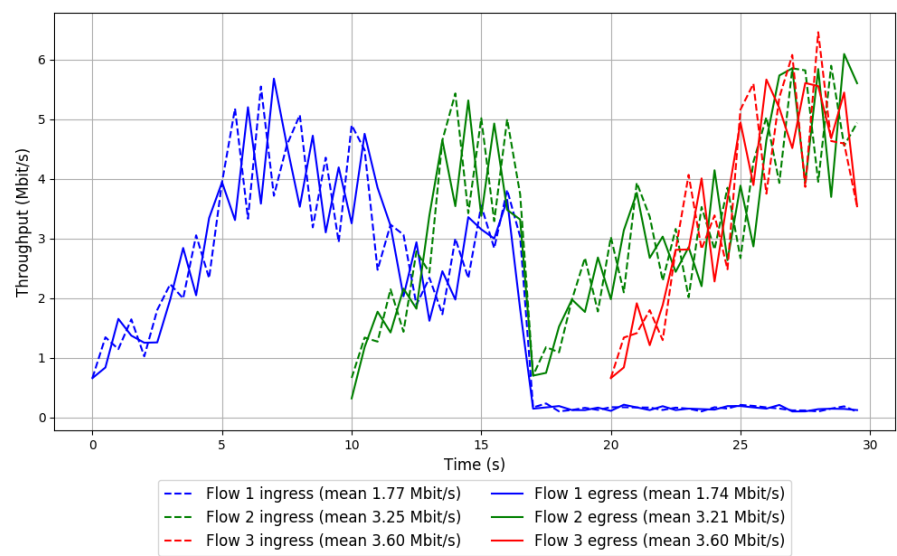
-- Flow 3:

Average throughput: 3.60 Mbit/s

95th percentile per-packet one-way delay: 88.596 ms

Loss rate: 0.00%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-01-09 16:27:20

End at: 2018-01-09 16:27:50

Below is generated by plot.py at 2018-01-09 19:08:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 7.80 Mbit/s

95th percentile per-packet one-way delay: 88.740 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 3.98 Mbit/s

95th percentile per-packet one-way delay: 88.760 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 3.97 Mbit/s

95th percentile per-packet one-way delay: 88.729 ms

Loss rate: 0.00%

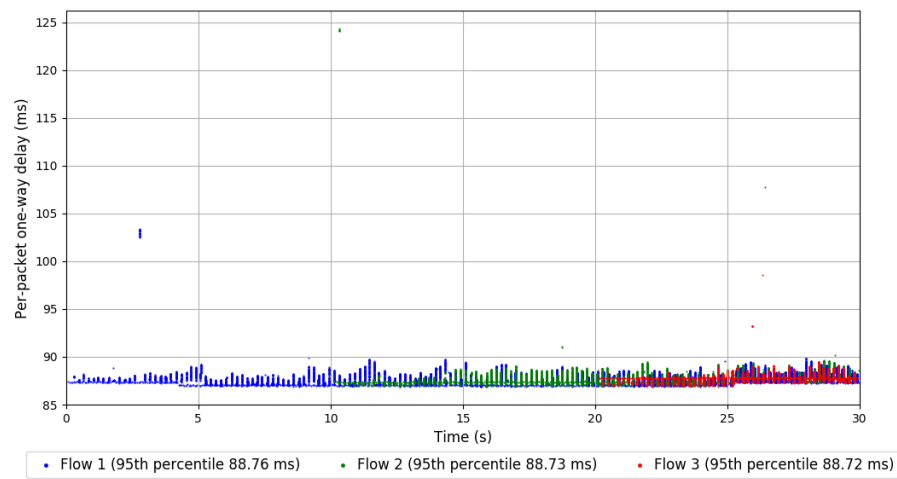
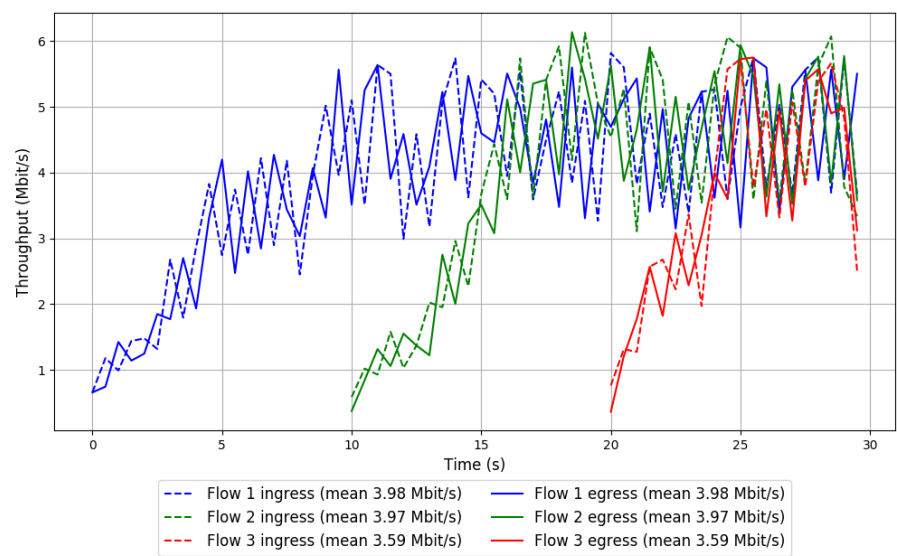
-- Flow 3:

Average throughput: 3.59 Mbit/s

95th percentile per-packet one-way delay: 88.721 ms

Loss rate: 0.00%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-01-09 16:41:56

End at: 2018-01-09 16:42:26

Below is generated by plot.py at 2018-01-09 19:08:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 7.57 Mbit/s

95th percentile per-packet one-way delay: 88.623 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 4.24 Mbit/s

95th percentile per-packet one-way delay: 88.722 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 3.33 Mbit/s

95th percentile per-packet one-way delay: 88.511 ms

Loss rate: 0.09%

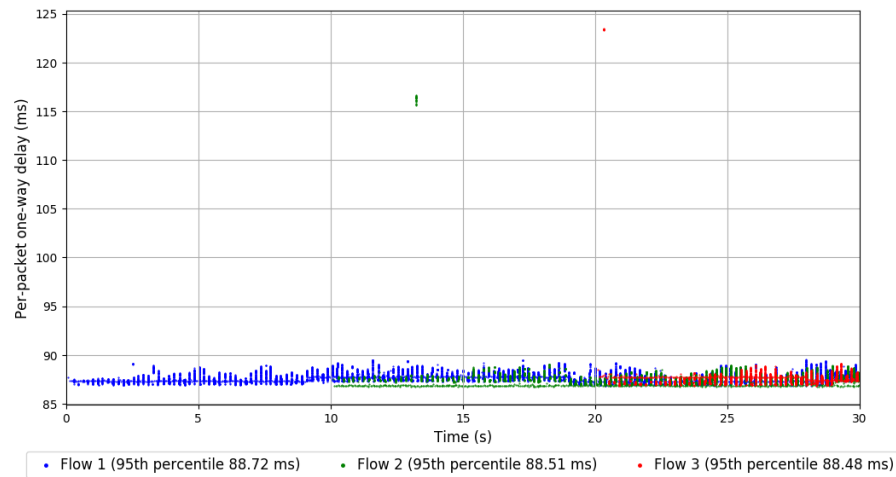
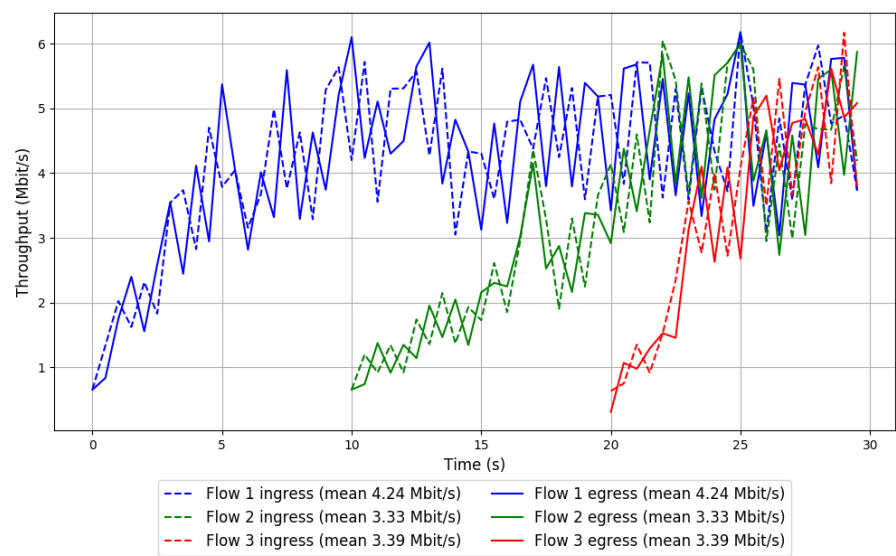
-- Flow 3:

Average throughput: 3.39 Mbit/s

95th percentile per-packet one-way delay: 88.483 ms

Loss rate: 0.00%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-01-09 16:56:56

End at: 2018-01-09 16:57:26

Below is generated by plot.py at 2018-01-09 19:08:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 7.77 Mbit/s

95th percentile per-packet one-way delay: 88.657 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 4.25 Mbit/s

95th percentile per-packet one-way delay: 88.638 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 4.12 Mbit/s

95th percentile per-packet one-way delay: 88.740 ms

Loss rate: 0.00%

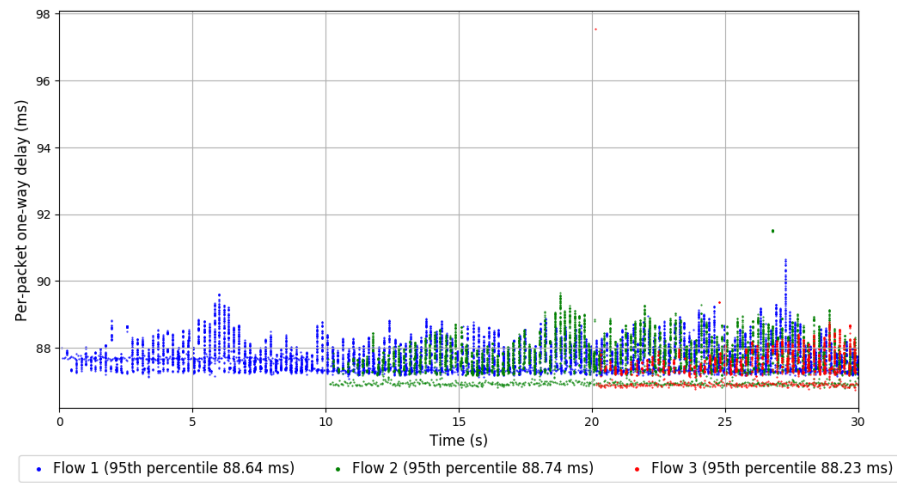
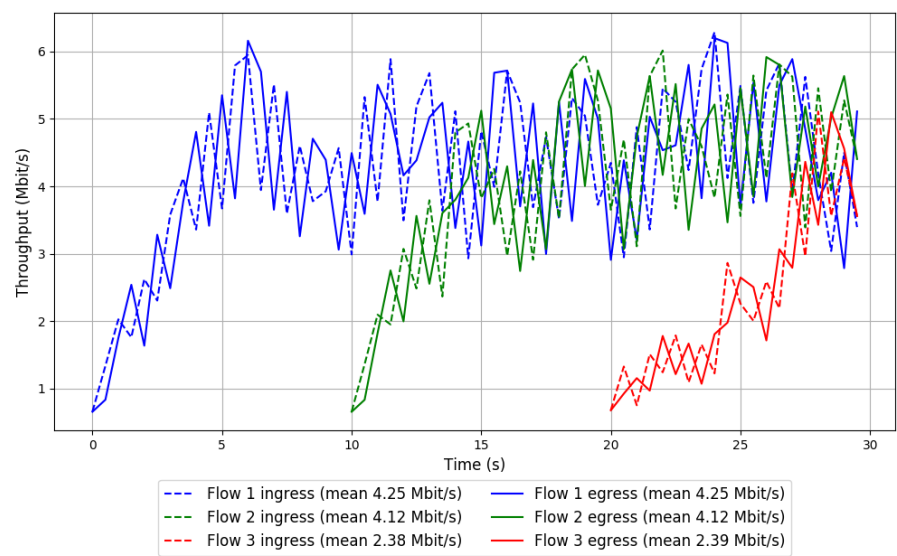
-- Flow 3:

Average throughput: 2.39 Mbit/s

95th percentile per-packet one-way delay: 88.227 ms

Loss rate: 0.00%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-01-09 17:11:30

End at: 2018-01-09 17:12:00

Below is generated by plot.py at 2018-01-09 19:08:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 5.37 Mbit/s

95th percentile per-packet one-way delay: 88.860 ms

Loss rate: 2.10%

-- Flow 1:

Average throughput: 3.60 Mbit/s

95th percentile per-packet one-way delay: 89.052 ms

Loss rate: 1.49%

-- Flow 2:

Average throughput: 2.10 Mbit/s

95th percentile per-packet one-way delay: 88.535 ms

Loss rate: 3.25%

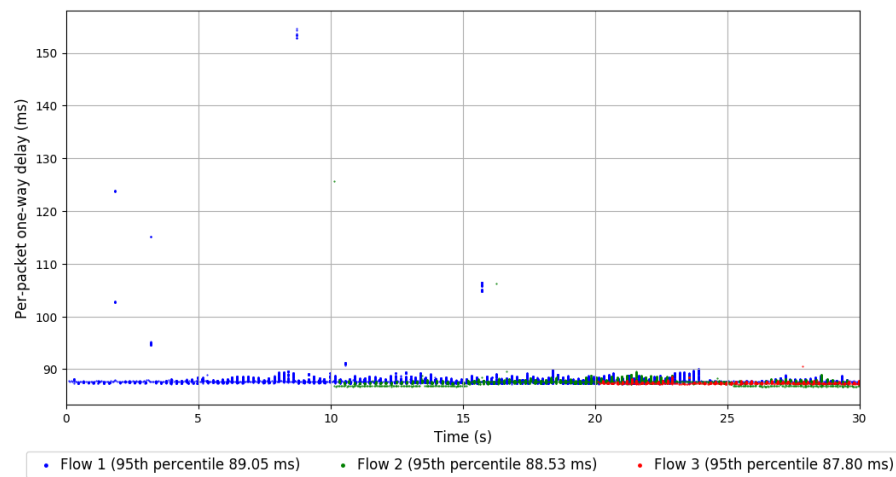
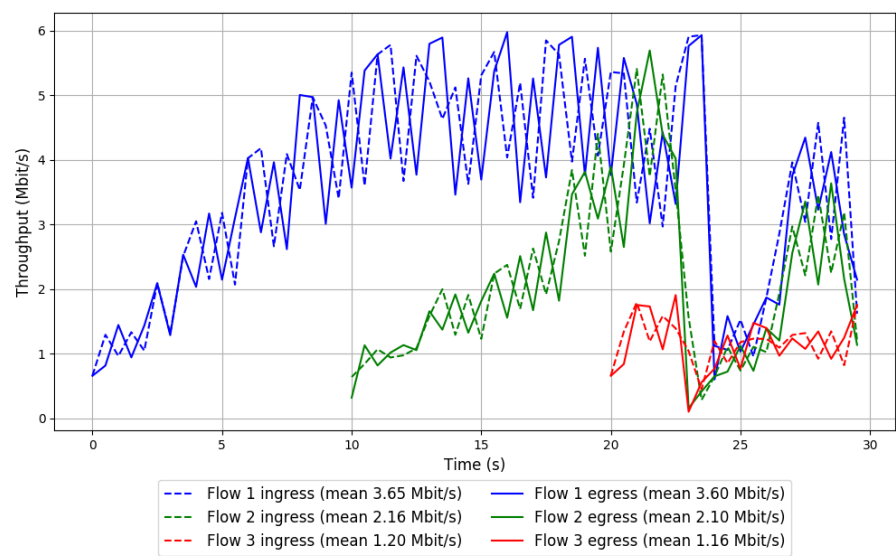
-- Flow 3:

Average throughput: 1.16 Mbit/s

95th percentile per-packet one-way delay: 87.804 ms

Loss rate: 3.51%

Run 10: Report of Sprout — Data Link

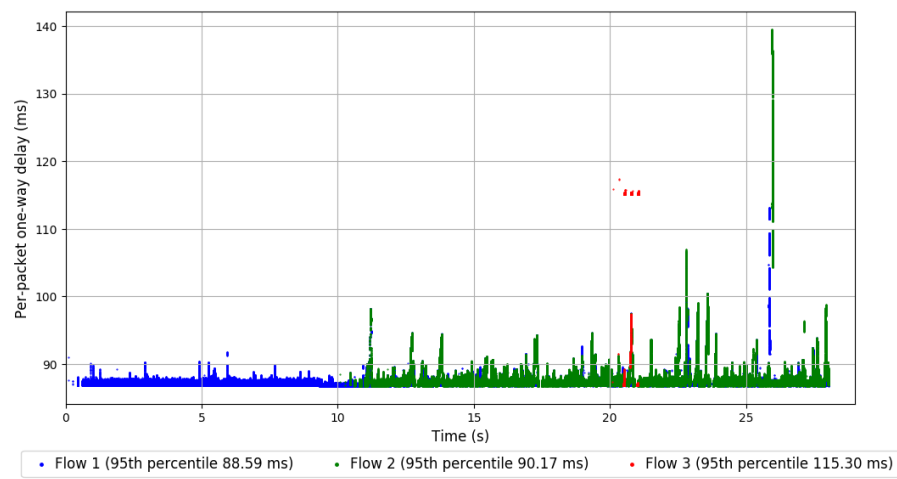
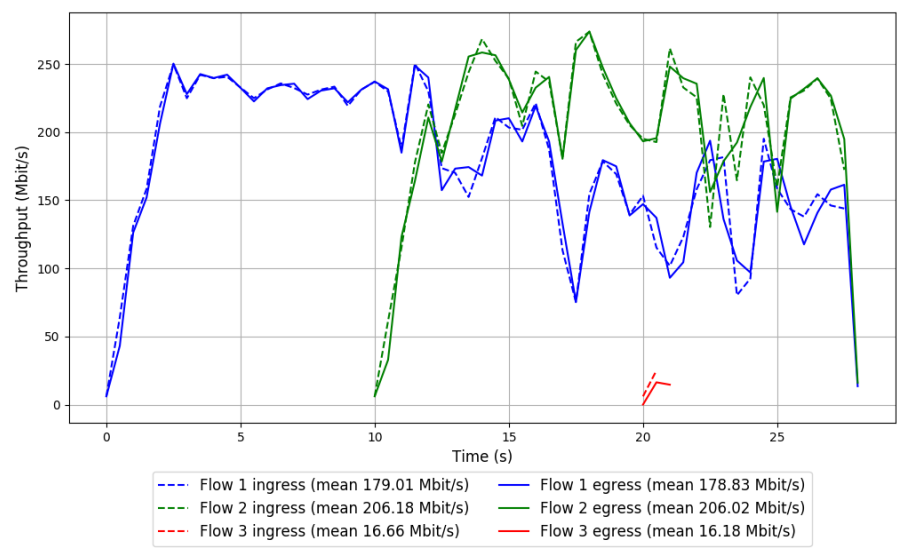


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-01-09 15:02:54
End at: 2018-01-09 15:03:24

# Below is generated by plot.py at 2018-01-09 19:15:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 311.68 Mbit/s
95th percentile per-packet one-way delay: 89.332 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 178.83 Mbit/s
95th percentile per-packet one-way delay: 88.589 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 206.02 Mbit/s
95th percentile per-packet one-way delay: 90.173 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 16.18 Mbit/s
95th percentile per-packet one-way delay: 115.296 ms
Loss rate: 0.00%
```


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

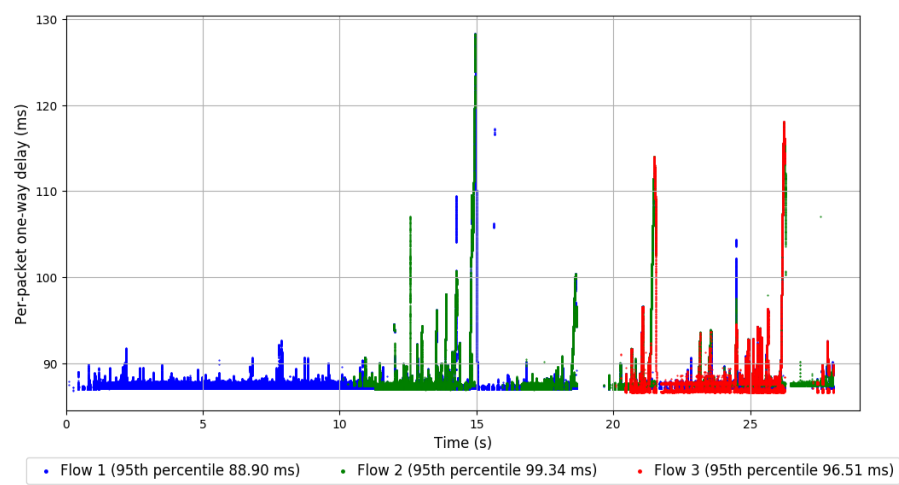
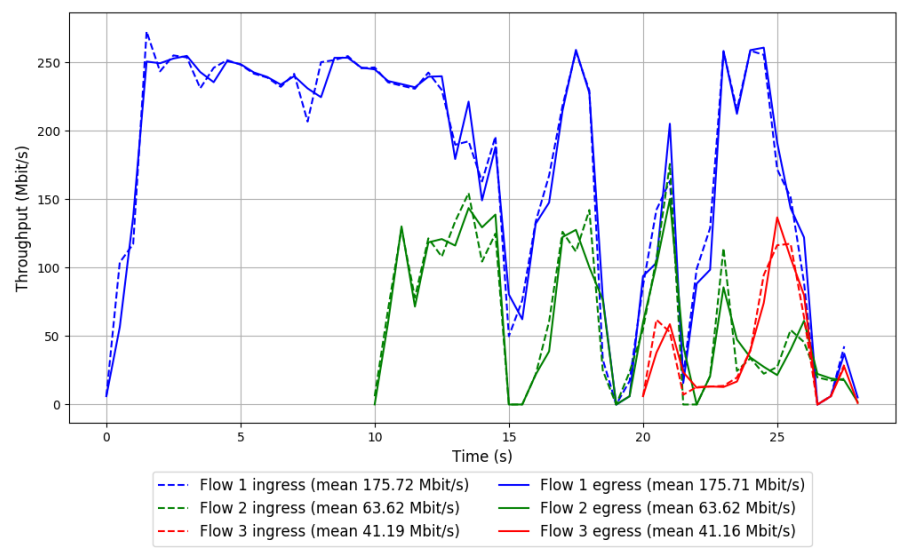


```
Run 2: Statistics of TaoVA-100x

Start at: 2018-01-09 15:17:32
End at: 2018-01-09 15:18:02

# Below is generated by plot.py at 2018-01-09 19:15:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 228.15 Mbit/s
95th percentile per-packet one-way delay: 91.073 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 175.71 Mbit/s
95th percentile per-packet one-way delay: 88.898 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 63.62 Mbit/s
95th percentile per-packet one-way delay: 99.345 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 41.16 Mbit/s
95th percentile per-packet one-way delay: 96.511 ms
Loss rate: 0.07%
```

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

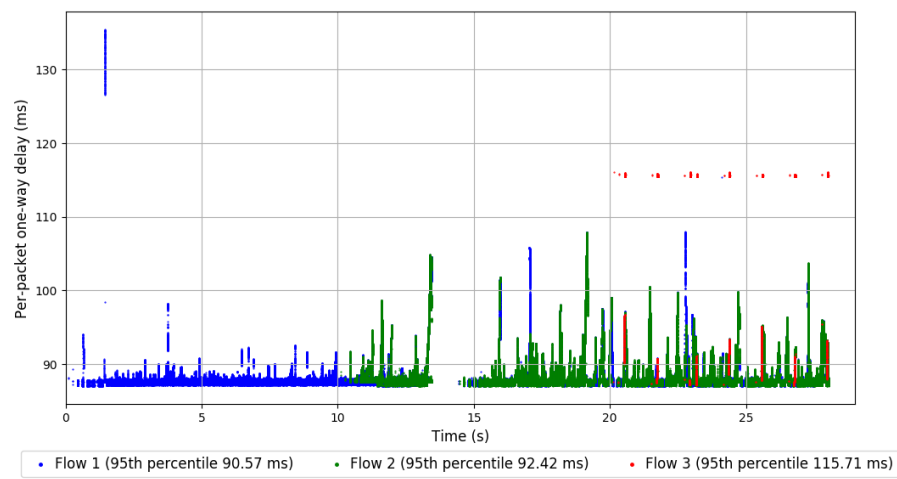
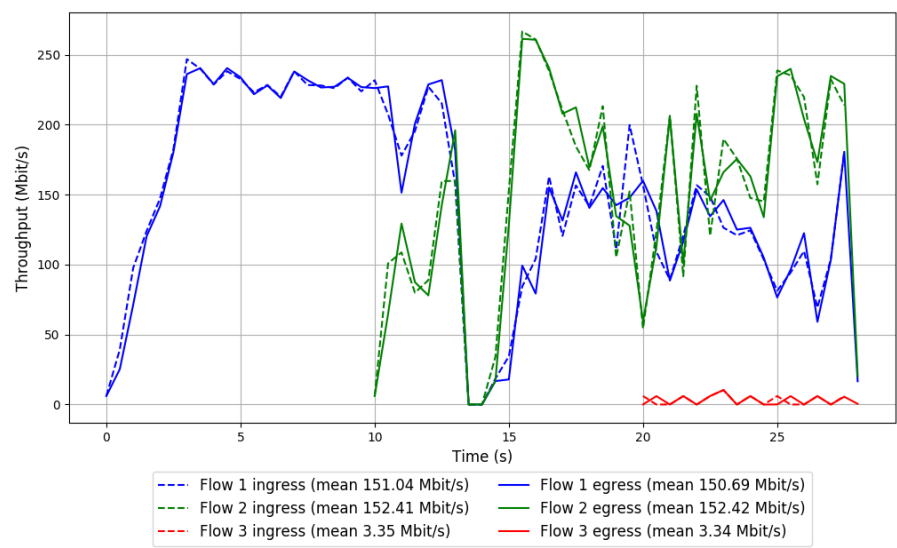


```
Run 3: Statistics of TaoVA-100x

Start at: 2018-01-09 15:32:12
End at: 2018-01-09 15:32:42

# Below is generated by plot.py at 2018-01-09 19:15:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 249.47 Mbit/s
95th percentile per-packet one-way delay: 91.510 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 150.69 Mbit/s
95th percentile per-packet one-way delay: 90.570 ms
Loss rate: 0.24%
-- Flow 2:
Average throughput: 152.42 Mbit/s
95th percentile per-packet one-way delay: 92.418 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 3.34 Mbit/s
95th percentile per-packet one-way delay: 115.707 ms
Loss rate: 0.00%
```

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

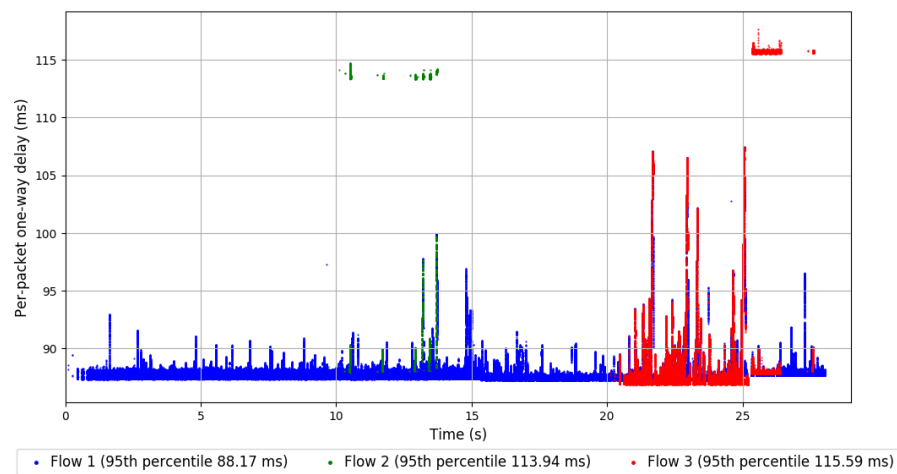
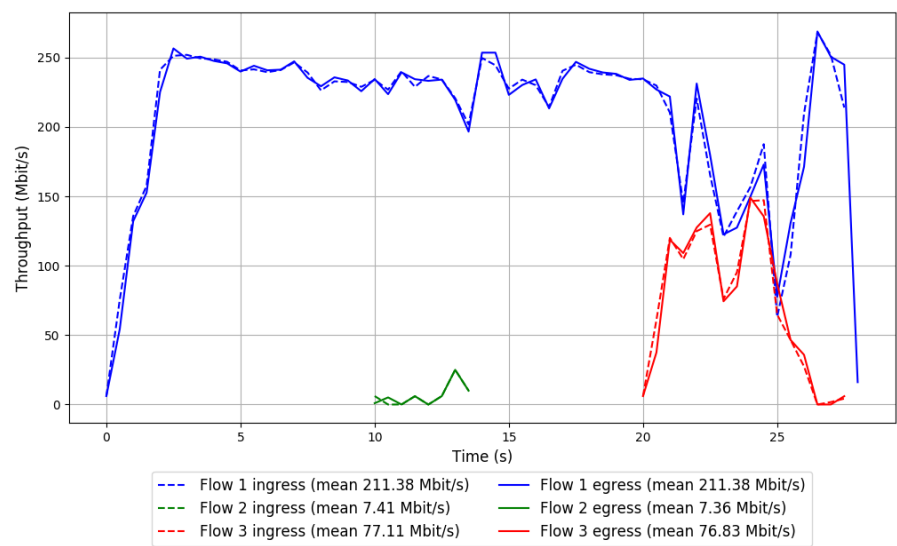


```
Run 4: Statistics of TaoVA-100x

Start at: 2018-01-09 15:46:58
End at: 2018-01-09 15:47:28

# Below is generated by plot.py at 2018-01-09 19:15:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 233.02 Mbit/s
95th percentile per-packet one-way delay: 88.730 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 211.38 Mbit/s
95th percentile per-packet one-way delay: 88.166 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 7.36 Mbit/s
95th percentile per-packet one-way delay: 113.935 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 76.83 Mbit/s
95th percentile per-packet one-way delay: 115.590 ms
Loss rate: 0.00%
```

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-01-09 16:01:33

End at: 2018-01-09 16:02:03

Below is generated by plot.py at 2018-01-09 19:15:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 259.98 Mbit/s

95th percentile per-packet one-way delay: 90.186 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 136.55 Mbit/s

95th percentile per-packet one-way delay: 89.527 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 171.80 Mbit/s

95th percentile per-packet one-way delay: 90.463 ms

Loss rate: 0.00%

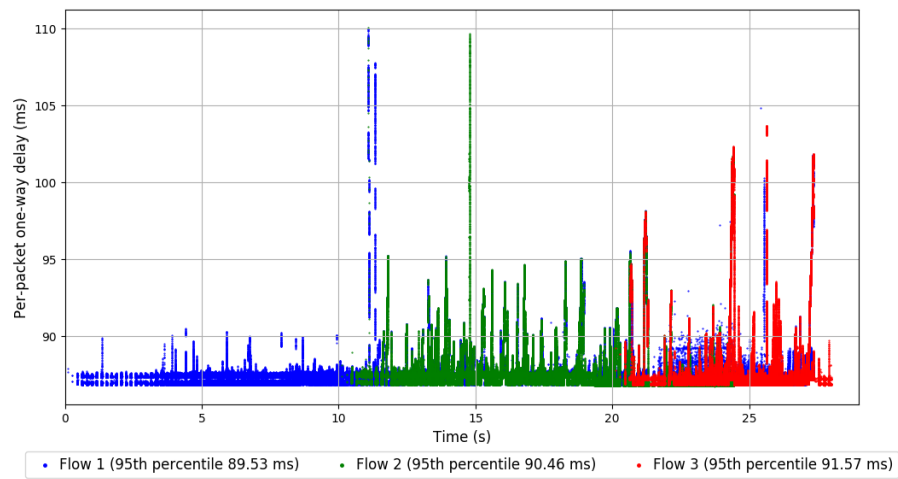
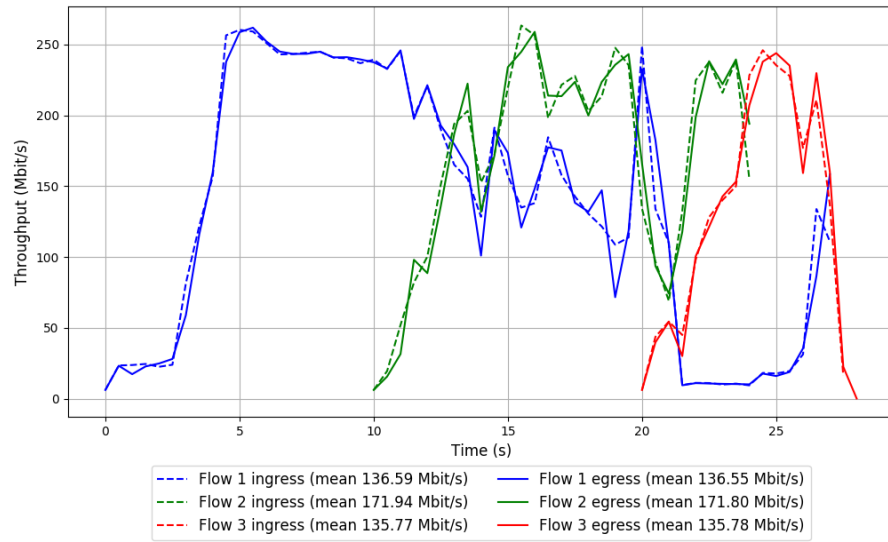
-- Flow 3:

Average throughput: 135.78 Mbit/s

95th percentile per-packet one-way delay: 91.574 ms

Loss rate: 0.00%

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

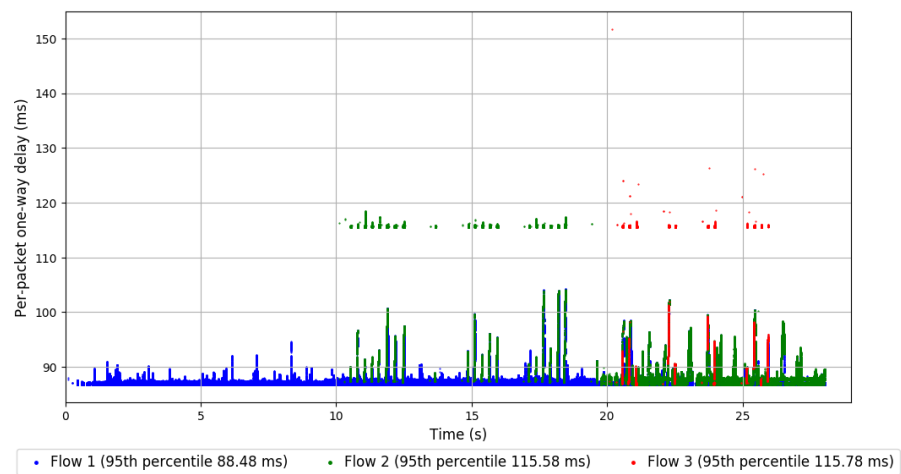
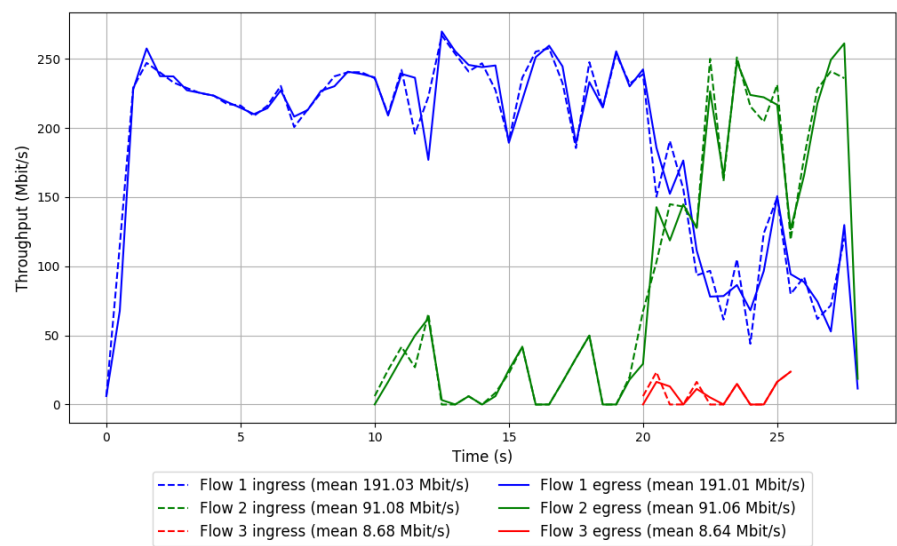


```
Run 6: Statistics of TaoVA-100x

Start at: 2018-01-09 16:16:14
End at: 2018-01-09 16:16:44

# Below is generated by plot.py at 2018-01-09 19:15:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 251.27 Mbit/s
95th percentile per-packet one-way delay: 92.093 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 191.01 Mbit/s
95th percentile per-packet one-way delay: 88.481 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 91.06 Mbit/s
95th percentile per-packet one-way delay: 115.575 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 8.64 Mbit/s
95th percentile per-packet one-way delay: 115.779 ms
Loss rate: 0.00%
```

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

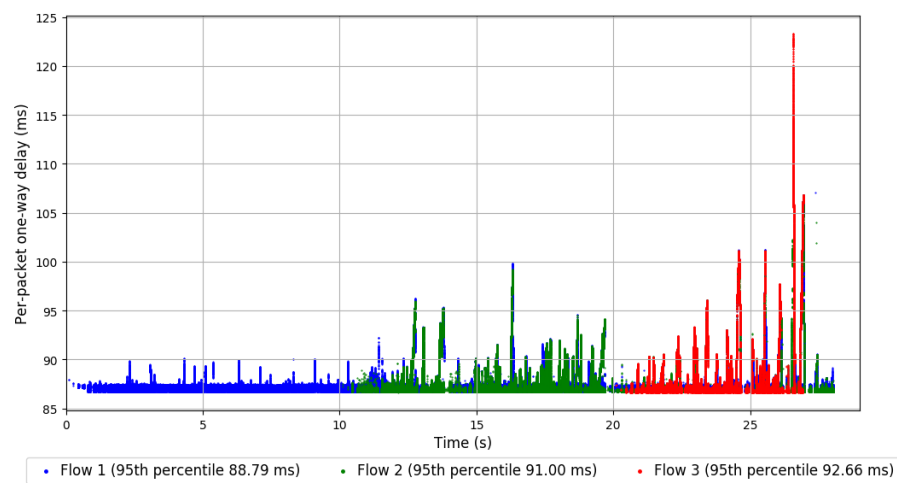
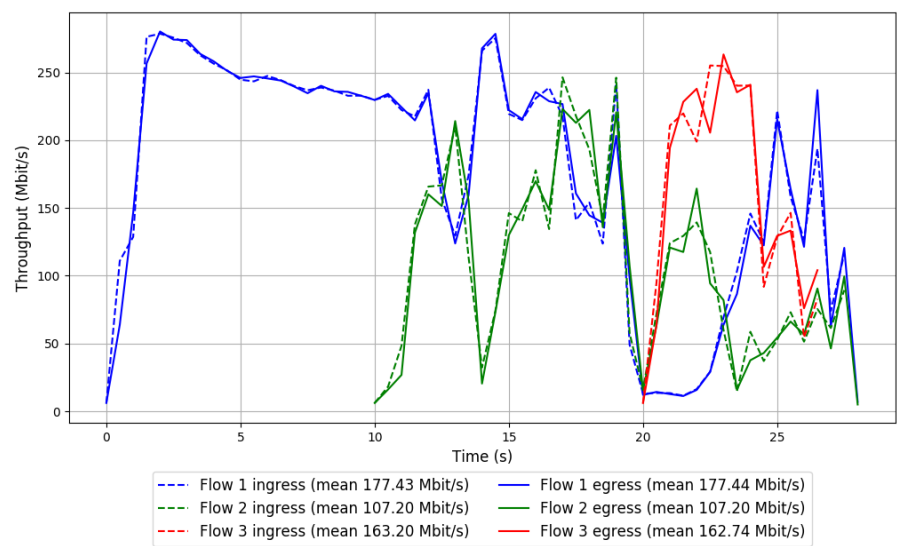


```
Run 7: Statistics of TaoVA-100x

Start at: 2018-01-09 16:31:03
End at: 2018-01-09 16:31:33

# Below is generated by plot.py at 2018-01-09 19:16:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 286.05 Mbit/s
95th percentile per-packet one-way delay: 89.973 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 177.44 Mbit/s
95th percentile per-packet one-way delay: 88.788 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 107.20 Mbit/s
95th percentile per-packet one-way delay: 91.005 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 162.74 Mbit/s
95th percentile per-packet one-way delay: 92.658 ms
Loss rate: 0.00%
```

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-01-09 16:45:44

End at: 2018-01-09 16:46:14

Below is generated by plot.py at 2018-01-09 19:16:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 242.75 Mbit/s

95th percentile per-packet one-way delay: 89.583 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 167.23 Mbit/s

95th percentile per-packet one-way delay: 87.802 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 35.84 Mbit/s

95th percentile per-packet one-way delay: 94.716 ms

Loss rate: 0.00%

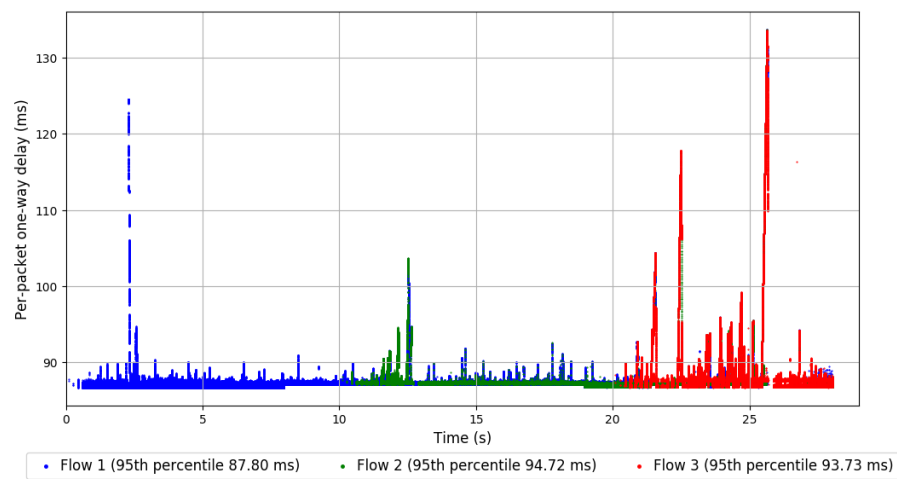
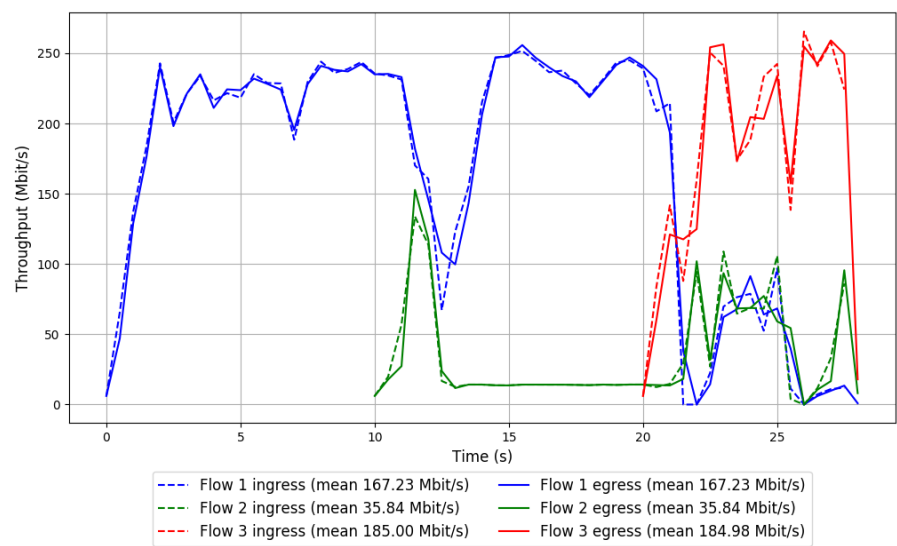
-- Flow 3:

Average throughput: 184.98 Mbit/s

95th percentile per-packet one-way delay: 93.730 ms

Loss rate: 0.00%

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

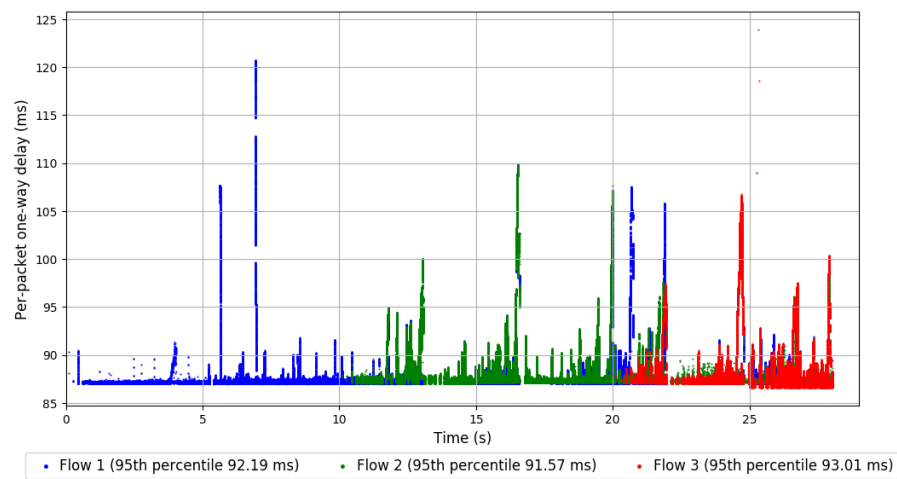
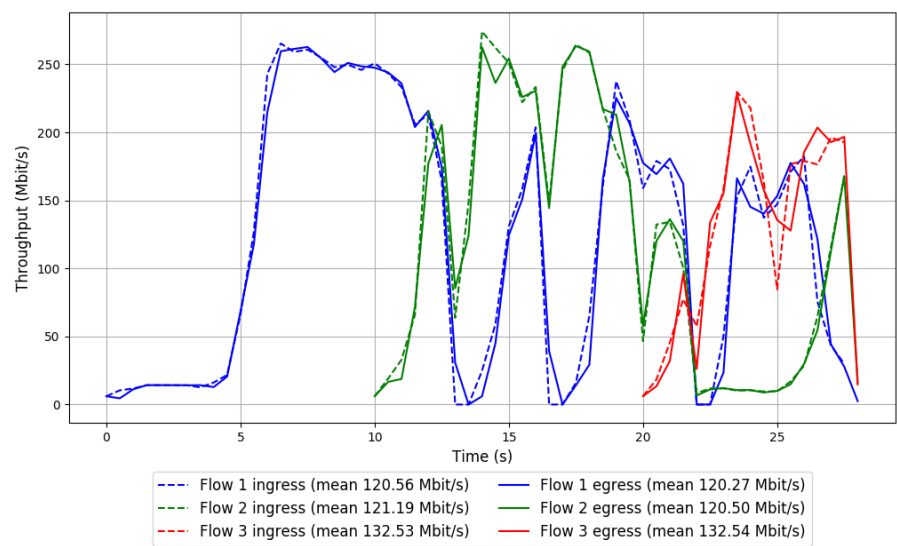


```
Run 9: Statistics of TaoVA-100x

Start at: 2018-01-09 17:00:39
End at: 2018-01-09 17:01:09

# Below is generated by plot.py at 2018-01-09 19:19:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 235.15 Mbit/s
95th percentile per-packet one-way delay: 92.030 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 120.27 Mbit/s
95th percentile per-packet one-way delay: 92.192 ms
Loss rate: 0.24%
-- Flow 2:
Average throughput: 120.50 Mbit/s
95th percentile per-packet one-way delay: 91.567 ms
Loss rate: 0.56%
-- Flow 3:
Average throughput: 132.54 Mbit/s
95th percentile per-packet one-way delay: 93.013 ms
Loss rate: 0.00%
```


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

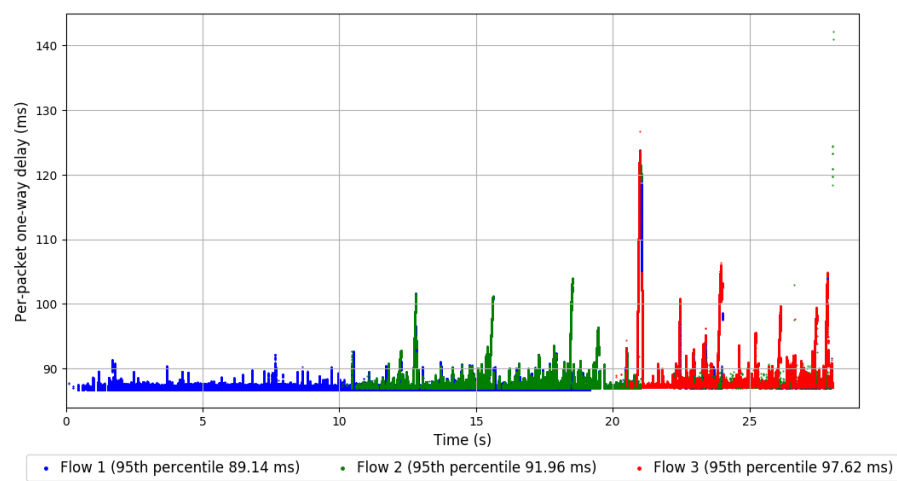
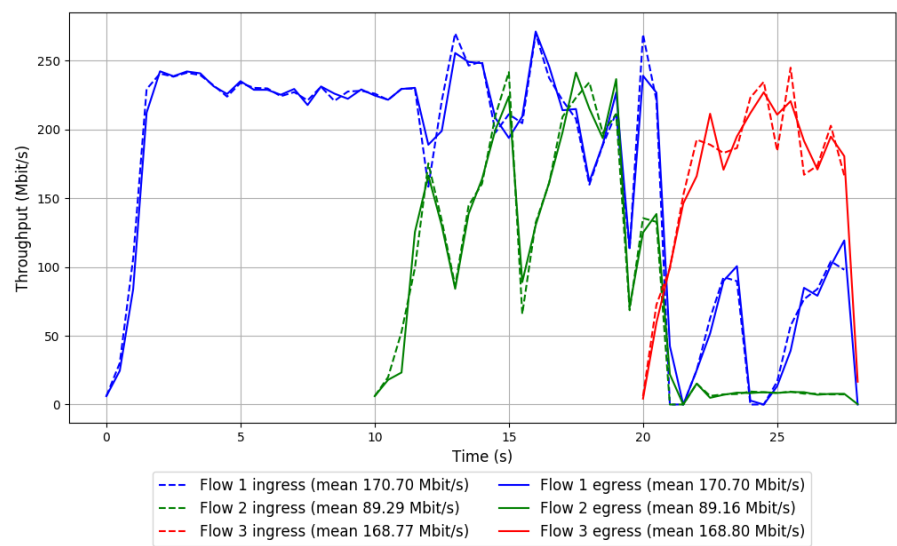


```
Run 10: Statistics of TaoVA-100x

Start at: 2018-01-09 17:15:13
End at: 2018-01-09 17:15:43

# Below is generated by plot.py at 2018-01-09 19:21:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 275.43 Mbit/s
95th percentile per-packet one-way delay: 91.302 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 170.70 Mbit/s
95th percentile per-packet one-way delay: 89.145 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 89.16 Mbit/s
95th percentile per-packet one-way delay: 91.962 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 168.80 Mbit/s
95th percentile per-packet one-way delay: 97.621 ms
Loss rate: 0.00%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2018-01-09 15:04:07

End at: 2018-01-09 15:04:37

Below is generated by plot.py at 2018-01-09 19:21:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 68.00 Mbit/s

95th percentile per-packet one-way delay: 96.531 ms

Loss rate: 0.53%

-- Flow 1:

Average throughput: 5.30 Mbit/s

95th percentile per-packet one-way delay: 91.490 ms

Loss rate: 0.80%

-- Flow 2:

Average throughput: 34.17 Mbit/s

95th percentile per-packet one-way delay: 93.341 ms

Loss rate: 1.39%

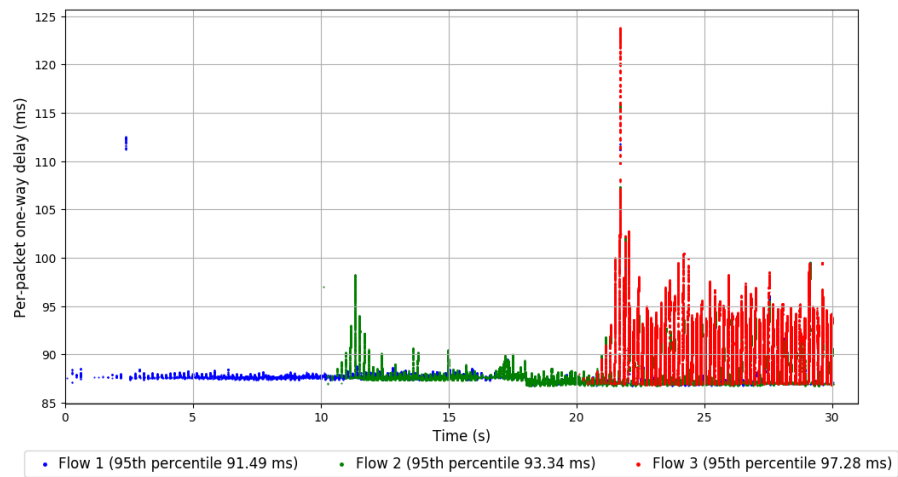
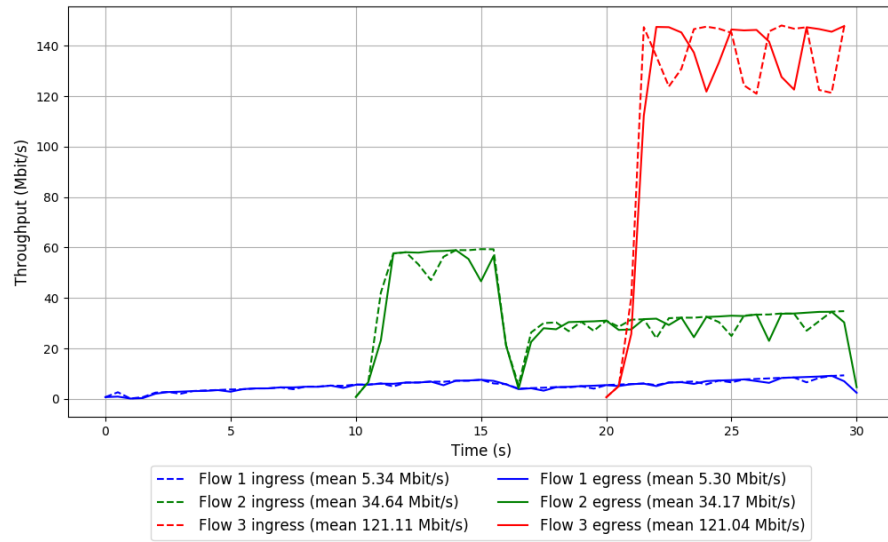
-- Flow 3:

Average throughput: 121.04 Mbit/s

95th percentile per-packet one-way delay: 97.282 ms

Loss rate: 0.00%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-01-09 15:18:39

End at: 2018-01-09 15:19:09

Below is generated by plot.py at 2018-01-09 19:21:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.53 Mbit/s

95th percentile per-packet one-way delay: 91.083 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 49.25 Mbit/s

95th percentile per-packet one-way delay: 90.075 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 44.30 Mbit/s

95th percentile per-packet one-way delay: 92.961 ms

Loss rate: 0.00%

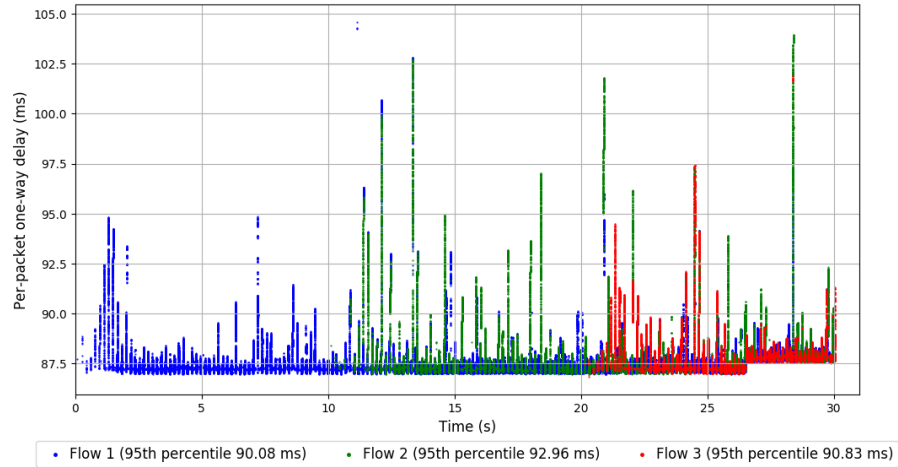
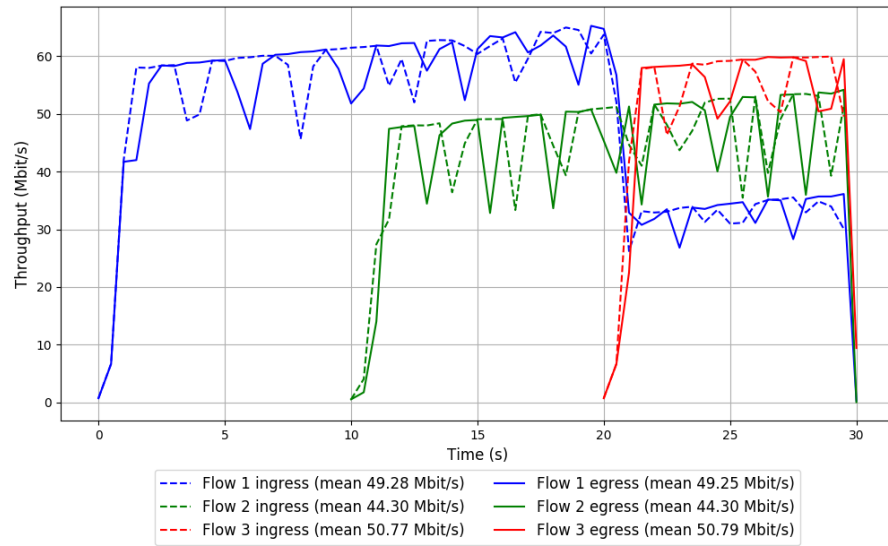
-- Flow 3:

Average throughput: 50.79 Mbit/s

95th percentile per-packet one-way delay: 90.829 ms

Loss rate: 0.00%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-01-09 15:33:20

End at: 2018-01-09 15:33:50

Below is generated by plot.py at 2018-01-09 19:21:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 80.24 Mbit/s

95th percentile per-packet one-way delay: 96.979 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 30.01 Mbit/s

95th percentile per-packet one-way delay: 96.871 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 44.59 Mbit/s

95th percentile per-packet one-way delay: 98.449 ms

Loss rate: 0.01%

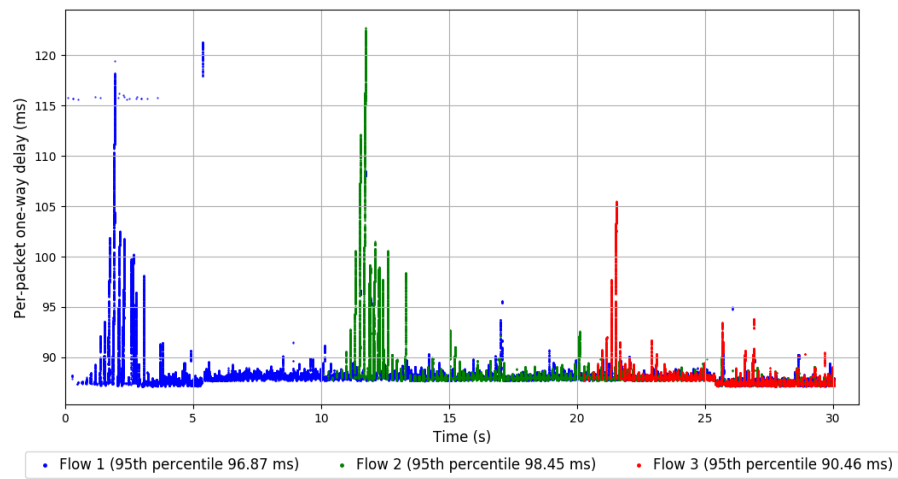
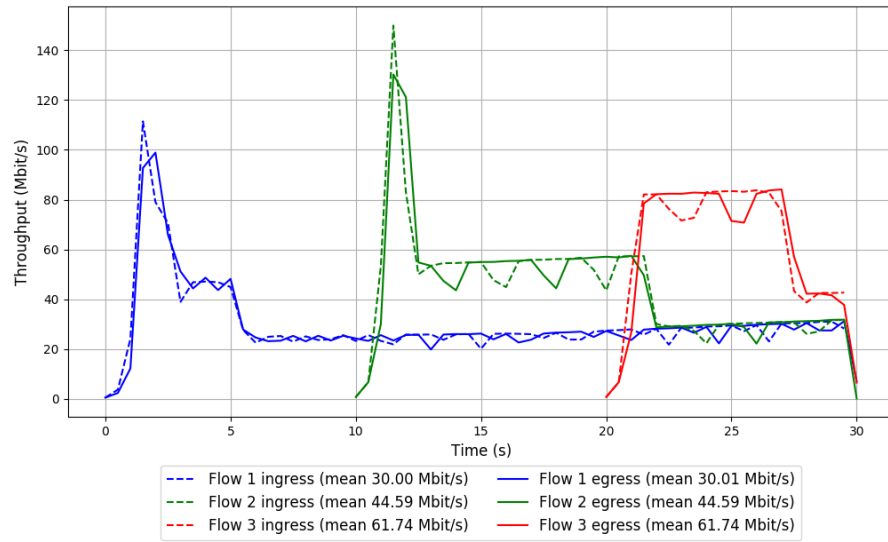
-- Flow 3:

Average throughput: 61.74 Mbit/s

95th percentile per-packet one-way delay: 90.460 ms

Loss rate: 0.01%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-01-09 15:48:04

End at: 2018-01-09 15:48:34

Below is generated by plot.py at 2018-01-09 19:21:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 169.49 Mbit/s

95th percentile per-packet one-way delay: 100.423 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 76.66 Mbit/s

95th percentile per-packet one-way delay: 96.847 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 127.56 Mbit/s

95th percentile per-packet one-way delay: 101.767 ms

Loss rate: 0.14%

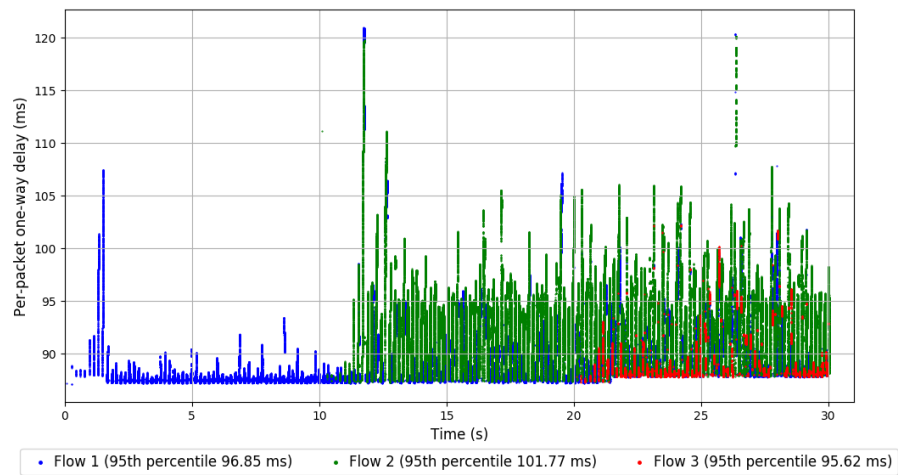
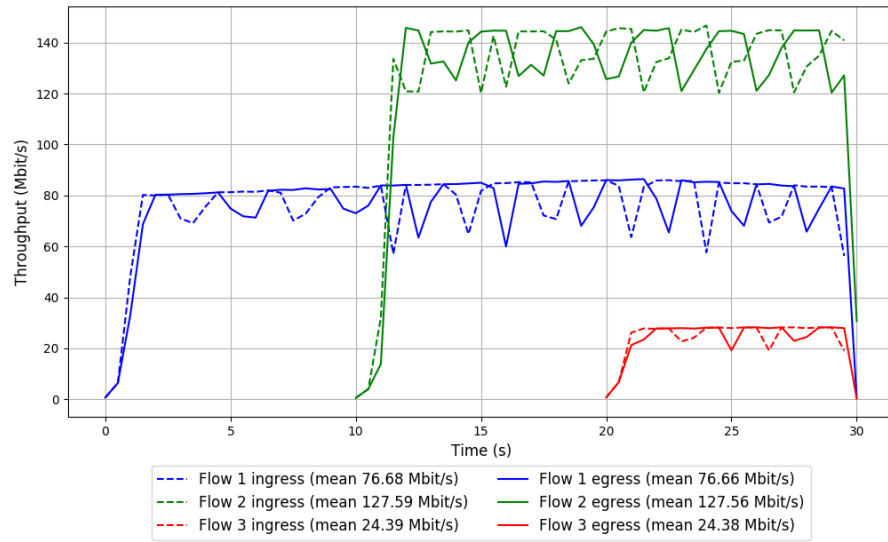
-- Flow 3:

Average throughput: 24.38 Mbit/s

95th percentile per-packet one-way delay: 95.618 ms

Loss rate: 0.00%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-01-09 16:02:42

End at: 2018-01-09 16:03:12

Below is generated by plot.py at 2018-01-09 19:21:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.26 Mbit/s

95th percentile per-packet one-way delay: 96.275 ms

Loss rate: 0.94%

-- Flow 1:

Average throughput: 32.45 Mbit/s

95th percentile per-packet one-way delay: 96.591 ms

Loss rate: 1.76%

-- Flow 2:

Average throughput: 58.69 Mbit/s

95th percentile per-packet one-way delay: 96.567 ms

Loss rate: 0.57%

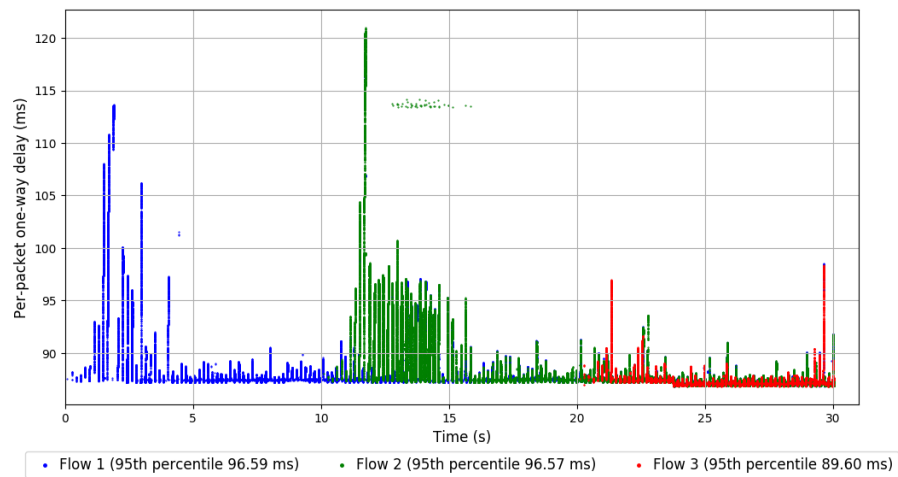
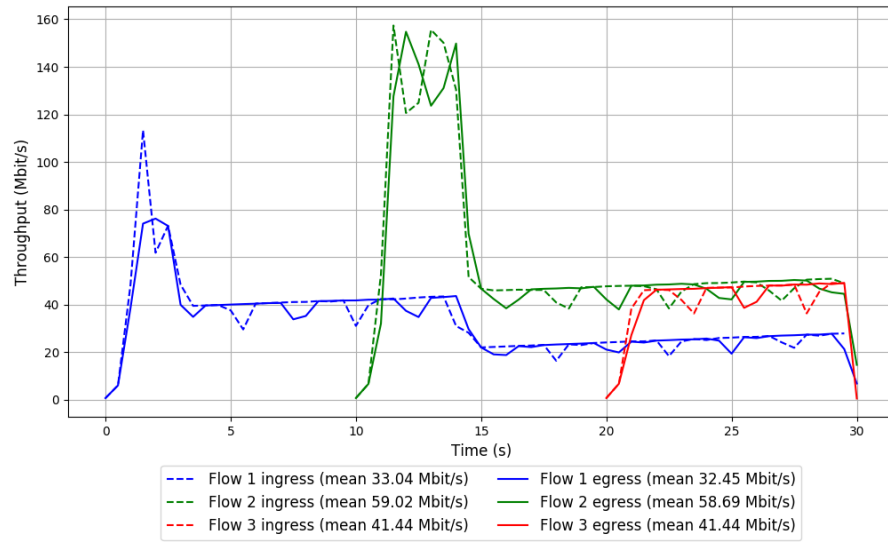
-- Flow 3:

Average throughput: 41.44 Mbit/s

95th percentile per-packet one-way delay: 89.600 ms

Loss rate: 0.00%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-01-09 16:17:21

End at: 2018-01-09 16:17:51

Below is generated by plot.py at 2018-01-09 19:21:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 156.85 Mbit/s

95th percentile per-packet one-way delay: 98.602 ms

Loss rate: 0.26%

-- Flow 1:

Average throughput: 79.96 Mbit/s

95th percentile per-packet one-way delay: 95.983 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 75.84 Mbit/s

95th percentile per-packet one-way delay: 100.973 ms

Loss rate: 0.79%

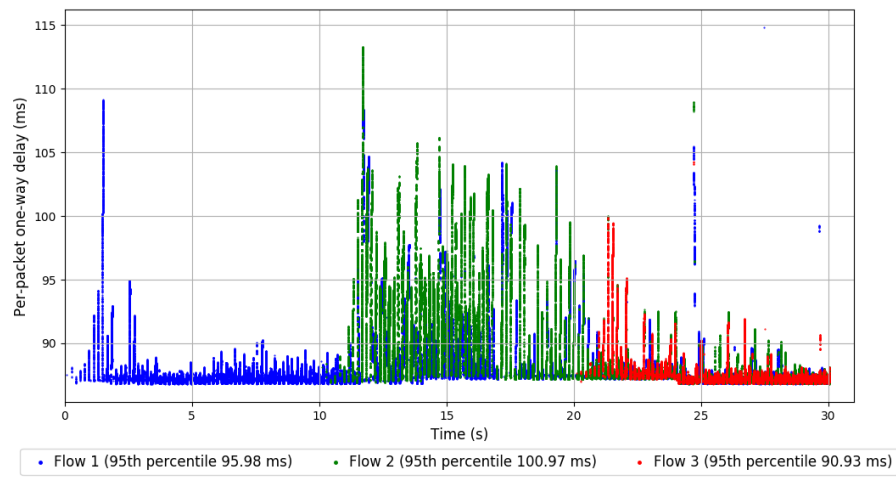
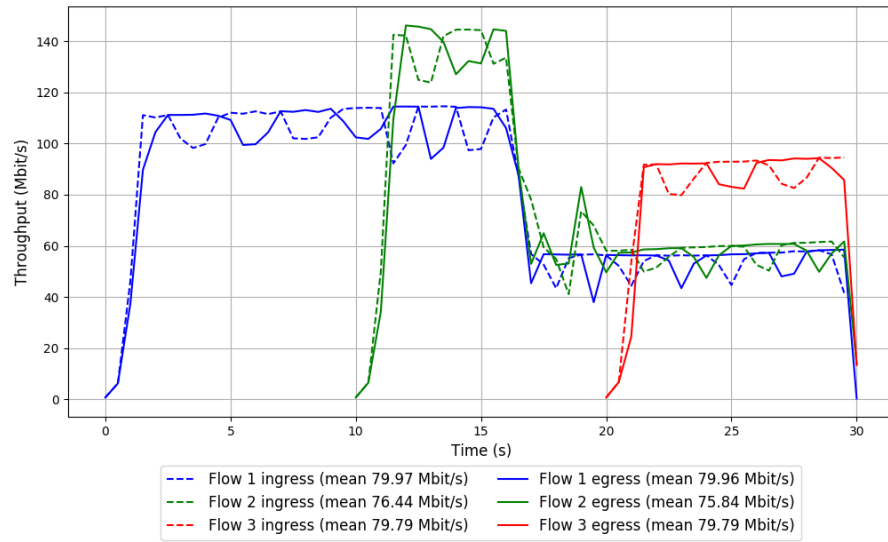
-- Flow 3:

Average throughput: 79.79 Mbit/s

95th percentile per-packet one-way delay: 90.926 ms

Loss rate: 0.00%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-01-09 16:32:15

End at: 2018-01-09 16:32:45

Below is generated by plot.py at 2018-01-09 19:21:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 104.61 Mbit/s

95th percentile per-packet one-way delay: 94.617 ms

Loss rate: 0.72%

-- Flow 1:

Average throughput: 51.00 Mbit/s

95th percentile per-packet one-way delay: 98.391 ms

Loss rate: 0.54%

-- Flow 2:

Average throughput: 50.07 Mbit/s

95th percentile per-packet one-way delay: 90.448 ms

Loss rate: 1.42%

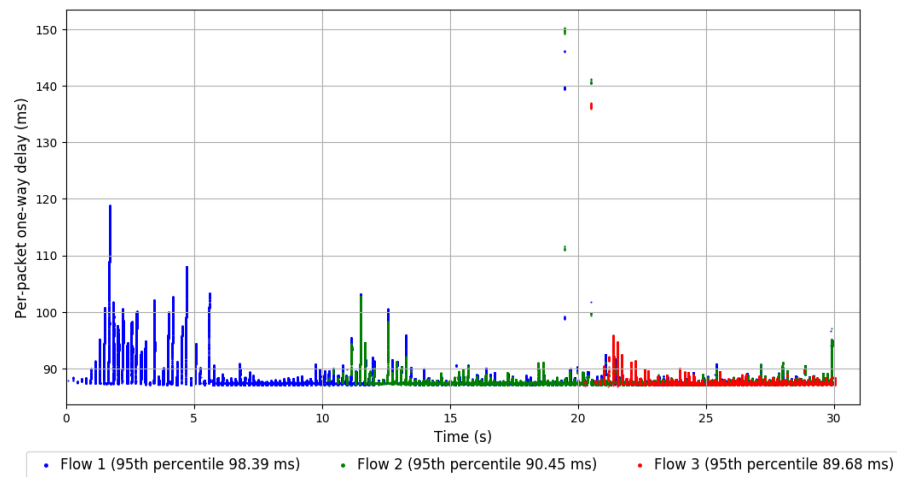
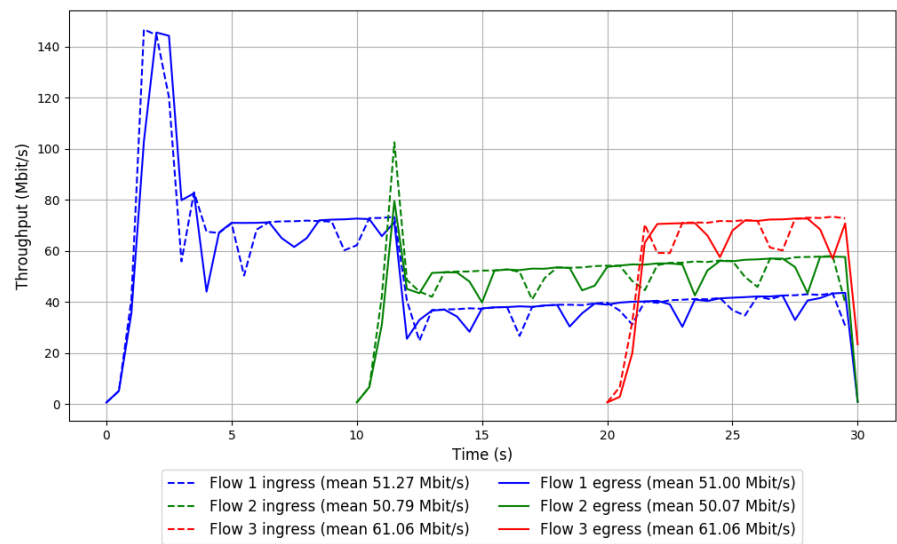
-- Flow 3:

Average throughput: 61.06 Mbit/s

95th percentile per-packet one-way delay: 89.683 ms

Loss rate: 0.00%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-01-09 16:46:51

End at: 2018-01-09 16:47:21

Below is generated by plot.py at 2018-01-09 19:21:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 76.05 Mbit/s

95th percentile per-packet one-way delay: 96.957 ms

Loss rate: 0.50%

-- Flow 1:

Average throughput: 24.39 Mbit/s

95th percentile per-packet one-way delay: 91.459 ms

Loss rate: 0.15%

-- Flow 2:

Average throughput: 30.59 Mbit/s

95th percentile per-packet one-way delay: 92.242 ms

Loss rate: 1.66%

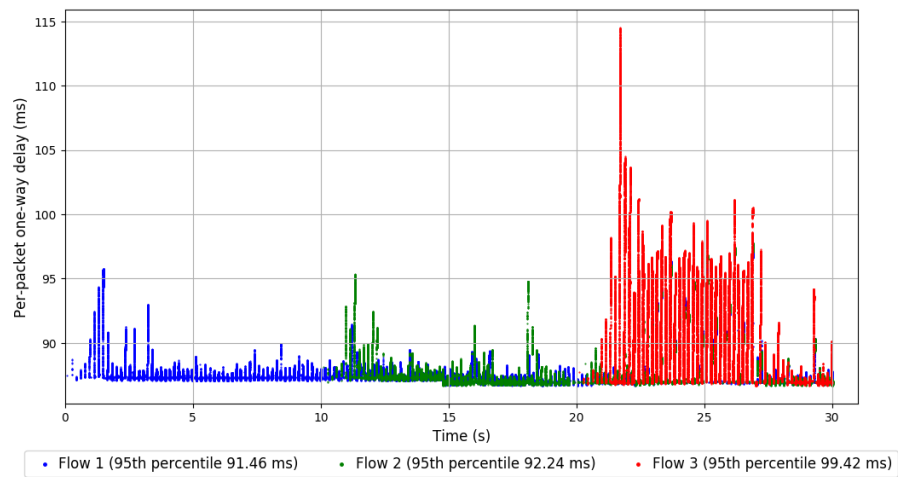
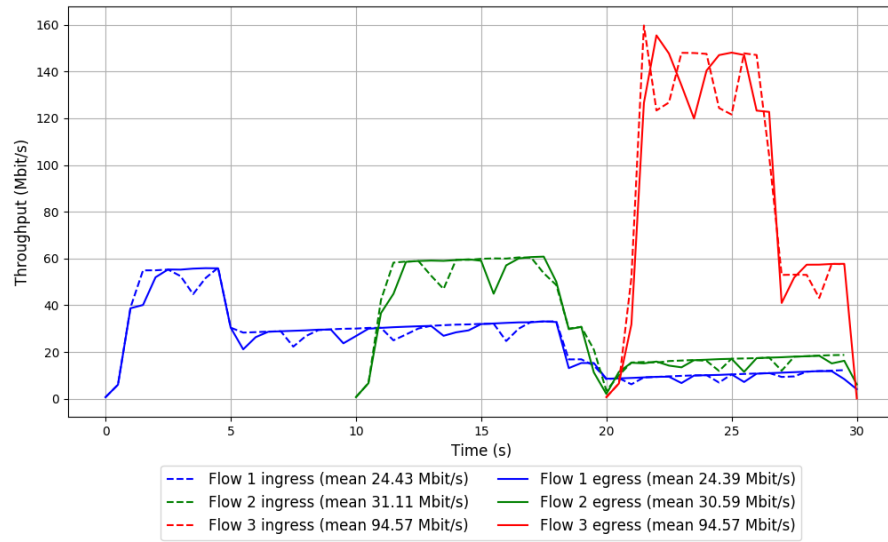
-- Flow 3:

Average throughput: 94.57 Mbit/s

95th percentile per-packet one-way delay: 99.423 ms

Loss rate: 0.00%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-01-09 17:01:45

End at: 2018-01-09 17:02:15

Below is generated by plot.py at 2018-01-09 19:21:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 103.19 Mbit/s

95th percentile per-packet one-way delay: 101.522 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 99.82 Mbit/s

95th percentile per-packet one-way delay: 101.649 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 4.12 Mbit/s

95th percentile per-packet one-way delay: 95.745 ms

Loss rate: 0.03%

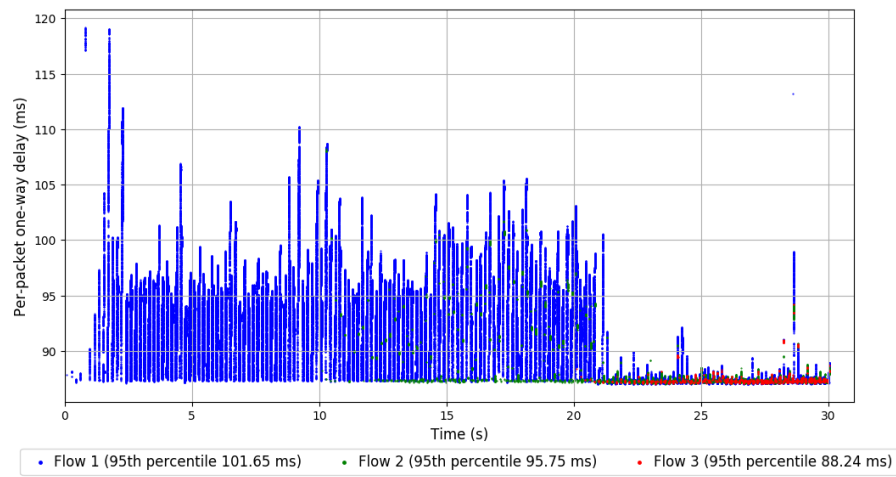
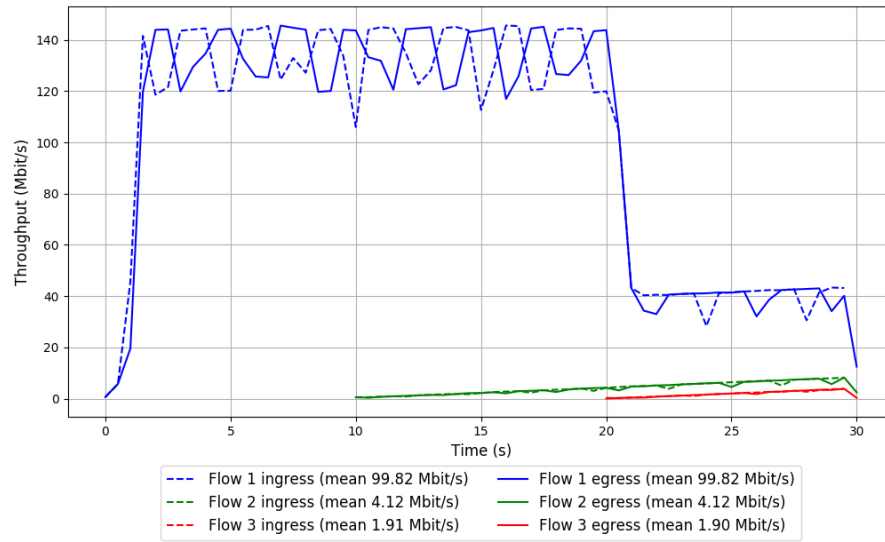
-- Flow 3:

Average throughput: 1.90 Mbit/s

95th percentile per-packet one-way delay: 88.243 ms

Loss rate: 0.57%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-01-09 17:16:24

End at: 2018-01-09 17:16:54

Below is generated by plot.py at 2018-01-09 19:21:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 71.84 Mbit/s

95th percentile per-packet one-way delay: 95.879 ms

Loss rate: 0.56%

-- Flow 1:

Average throughput: 13.49 Mbit/s

95th percentile per-packet one-way delay: 90.435 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 62.27 Mbit/s

95th percentile per-packet one-way delay: 91.238 ms

Loss rate: 0.01%

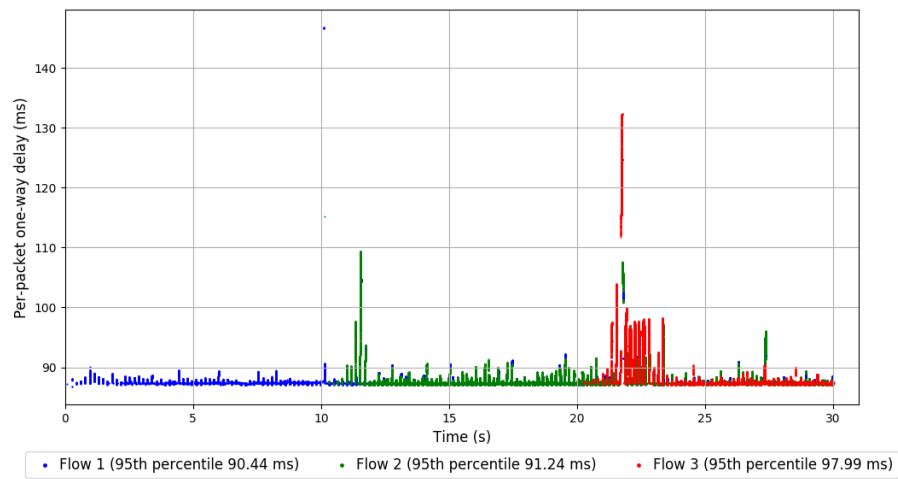
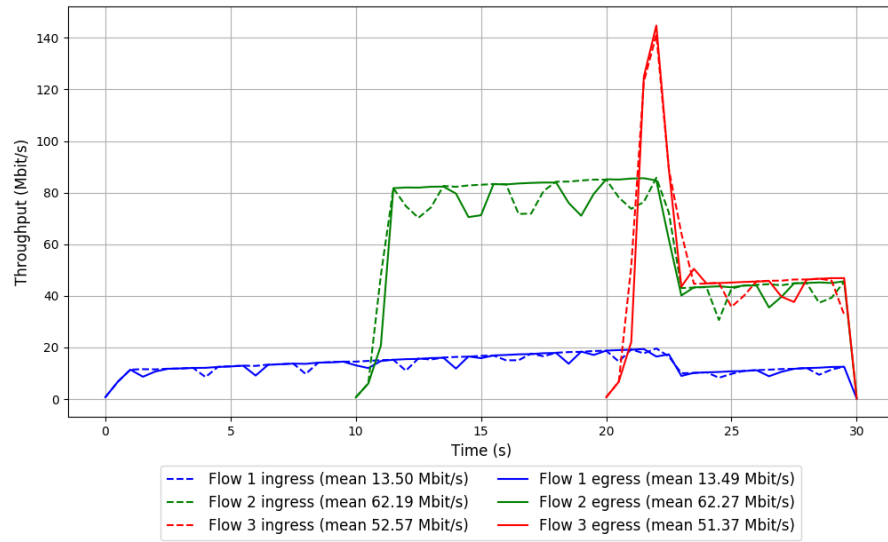
-- Flow 3:

Average throughput: 51.37 Mbit/s

95th percentile per-packet one-way delay: 97.994 ms

Loss rate: 2.29%

Run 10: Report of TCP Vegas — Data Link

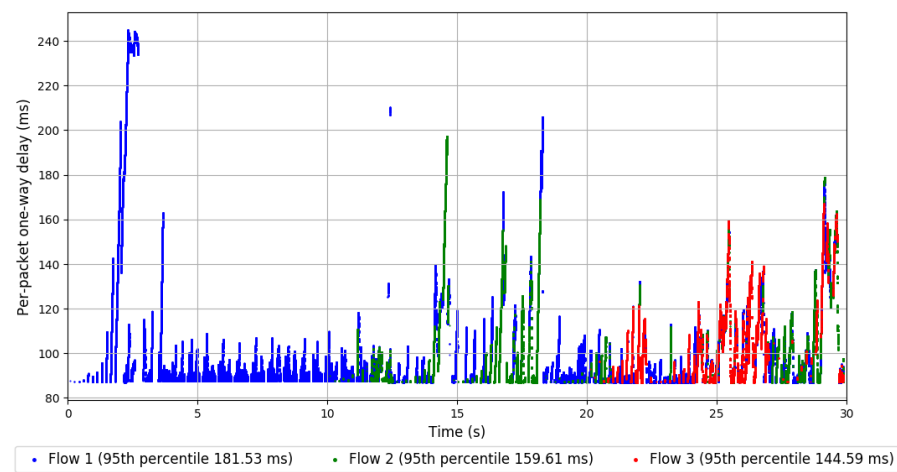
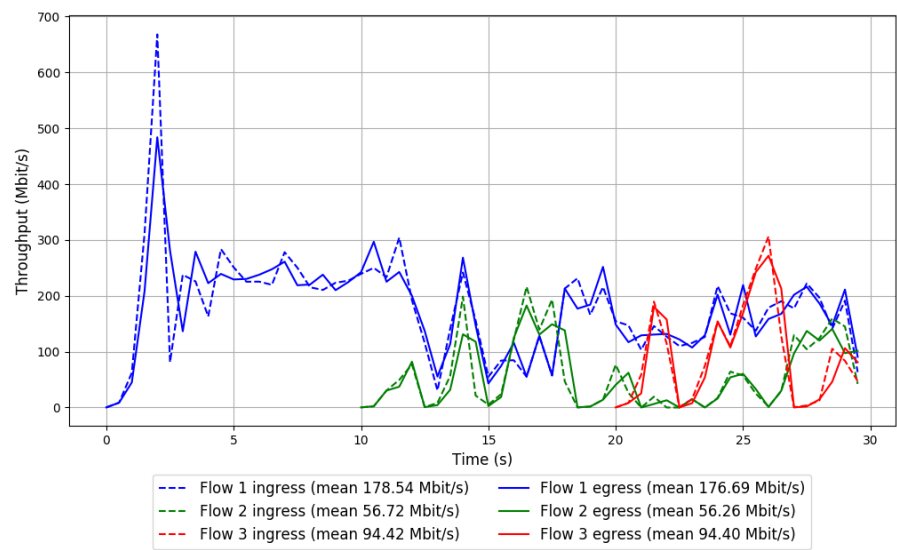


```
Run 1: Statistics of Verus

Start at: 2018-01-09 15:09:33
End at: 2018-01-09 15:10:03

# Below is generated by plot.py at 2018-01-09 19:21:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 244.92 Mbit/s
95th percentile per-packet one-way delay: 169.331 ms
Loss rate: 0.92%
-- Flow 1:
Average throughput: 176.69 Mbit/s
95th percentile per-packet one-way delay: 181.530 ms
Loss rate: 1.07%
-- Flow 2:
Average throughput: 56.26 Mbit/s
95th percentile per-packet one-way delay: 159.610 ms
Loss rate: 0.82%
-- Flow 3:
Average throughput: 94.40 Mbit/s
95th percentile per-packet one-way delay: 144.593 ms
Loss rate: 0.17%
```


Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-01-09 15:24:04

End at: 2018-01-09 15:24:34

Below is generated by plot.py at 2018-01-09 19:22:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 291.91 Mbit/s

95th percentile per-packet one-way delay: 275.472 ms

Loss rate: 4.76%

-- Flow 1:

Average throughput: 179.11 Mbit/s

95th percentile per-packet one-way delay: 229.854 ms

Loss rate: 2.92%

-- Flow 2:

Average throughput: 140.77 Mbit/s

95th percentile per-packet one-way delay: 311.875 ms

Loss rate: 8.02%

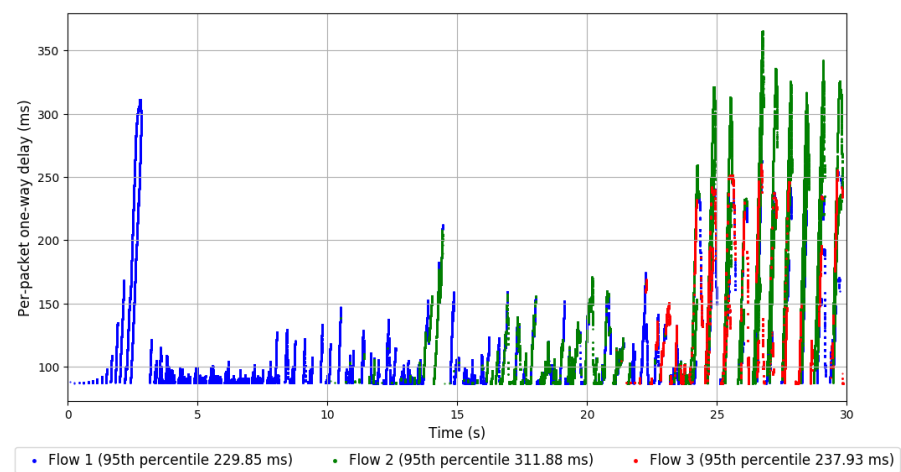
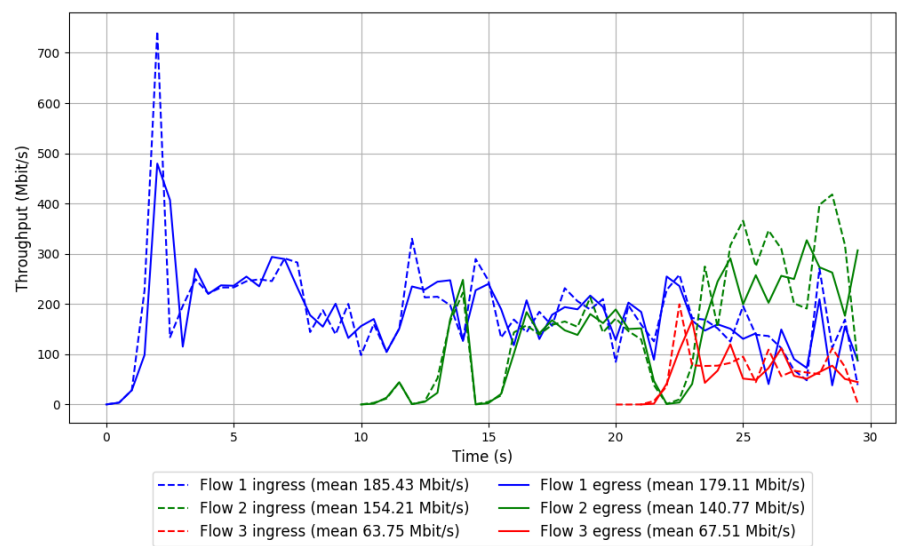
-- Flow 3:

Average throughput: 67.51 Mbit/s

95th percentile per-packet one-way delay: 237.934 ms

Loss rate: 5.22%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-01-09 15:38:51

End at: 2018-01-09 15:39:21

Below is generated by plot.py at 2018-01-09 19:22:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 286.89 Mbit/s

95th percentile per-packet one-way delay: 229.826 ms

Loss rate: 2.83%

-- Flow 1:

Average throughput: 156.00 Mbit/s

95th percentile per-packet one-way delay: 238.824 ms

Loss rate: 3.50%

-- Flow 2:

Average throughput: 169.82 Mbit/s

95th percentile per-packet one-way delay: 225.060 ms

Loss rate: 1.94%

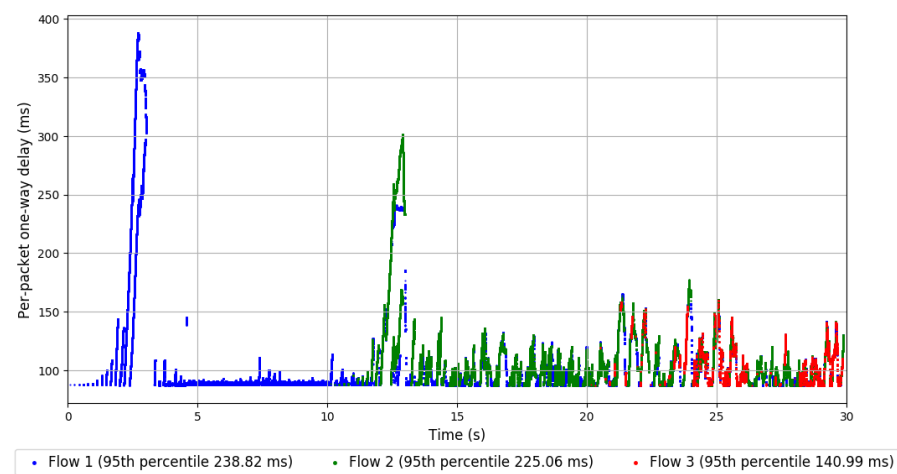
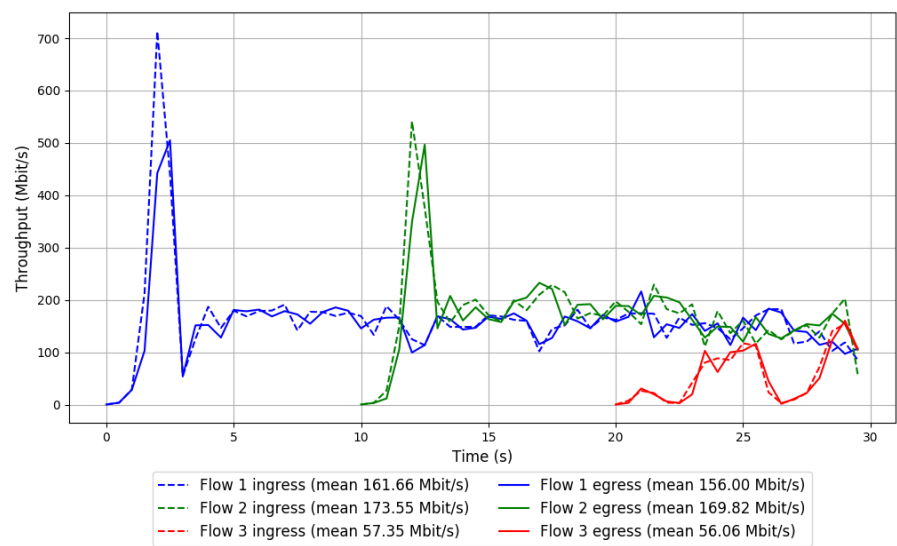
-- Flow 3:

Average throughput: 56.06 Mbit/s

95th percentile per-packet one-way delay: 140.991 ms

Loss rate: 2.57%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-01-09 15:53:36

End at: 2018-01-09 15:54:06

Below is generated by plot.py at 2018-01-09 19:22:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 290.49 Mbit/s

95th percentile per-packet one-way delay: 210.656 ms

Loss rate: 0.75%

-- Flow 1:

Average throughput: 238.82 Mbit/s

95th percentile per-packet one-way delay: 209.101 ms

Loss rate: 0.68%

-- Flow 2:

Average throughput: 40.65 Mbit/s

95th percentile per-packet one-way delay: 214.281 ms

Loss rate: 0.92%

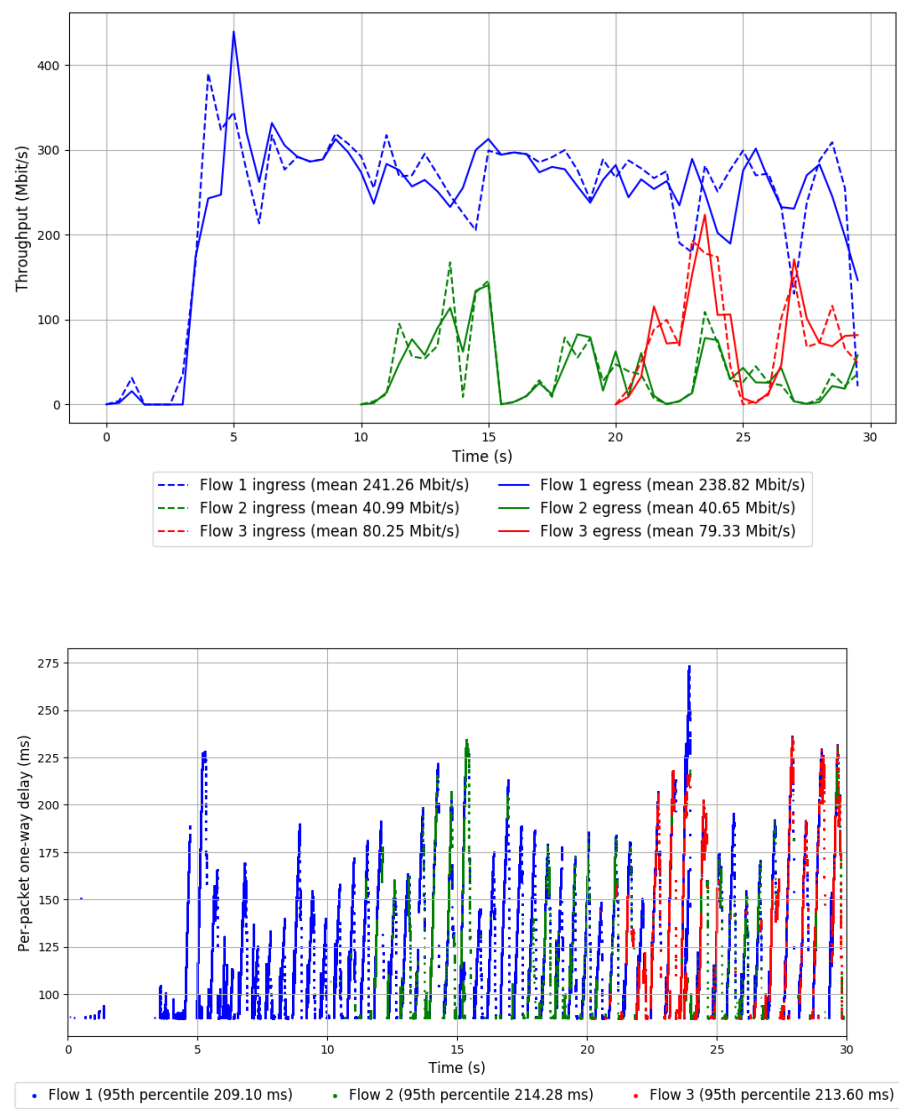
-- Flow 3:

Average throughput: 79.33 Mbit/s

95th percentile per-packet one-way delay: 213.597 ms

Loss rate: 1.24%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-01-09 16:08:09

End at: 2018-01-09 16:08:39

Below is generated by plot.py at 2018-01-09 19:22:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 254.40 Mbit/s

95th percentile per-packet one-way delay: 216.995 ms

Loss rate: 0.71%

-- Flow 1:

Average throughput: 159.78 Mbit/s

95th percentile per-packet one-way delay: 205.847 ms

Loss rate: 0.64%

-- Flow 2:

Average throughput: 110.44 Mbit/s

95th percentile per-packet one-way delay: 226.501 ms

Loss rate: 1.05%

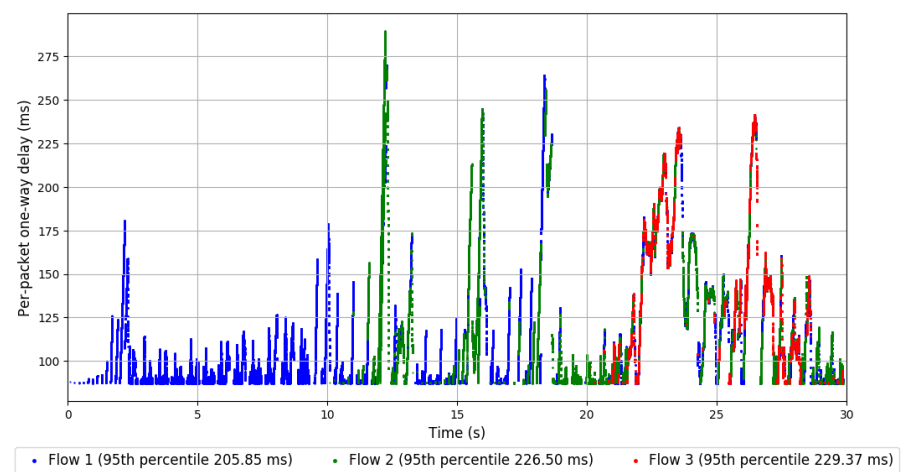
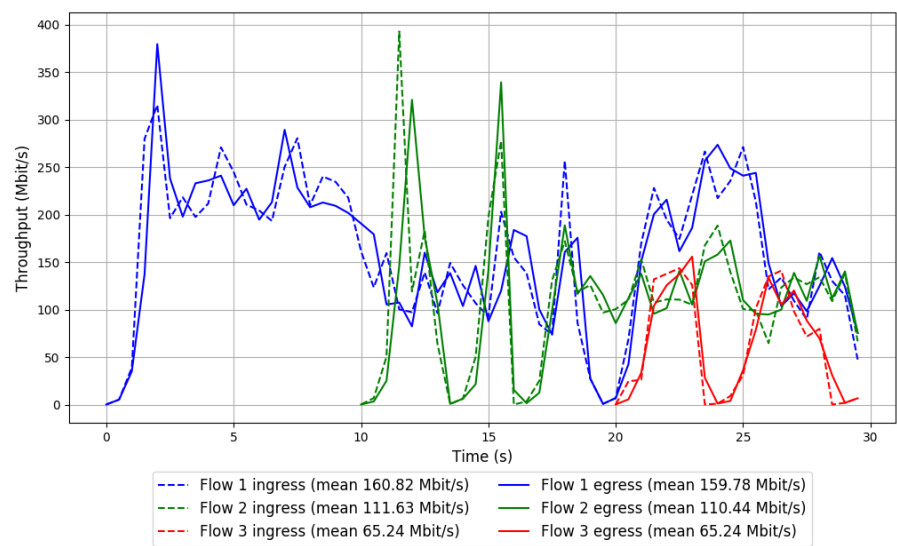
-- Flow 3:

Average throughput: 65.24 Mbit/s

95th percentile per-packet one-way delay: 229.367 ms

Loss rate: 0.00%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-01-09 16:22:52

End at: 2018-01-09 16:23:22

Below is generated by plot.py at 2018-01-09 19:23:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 293.11 Mbit/s

95th percentile per-packet one-way delay: 229.062 ms

Loss rate: 3.38%

-- Flow 1:

Average throughput: 201.36 Mbit/s

95th percentile per-packet one-way delay: 212.282 ms

Loss rate: 1.44%

-- Flow 2:

Average throughput: 82.96 Mbit/s

95th percentile per-packet one-way delay: 224.024 ms

Loss rate: 1.80%

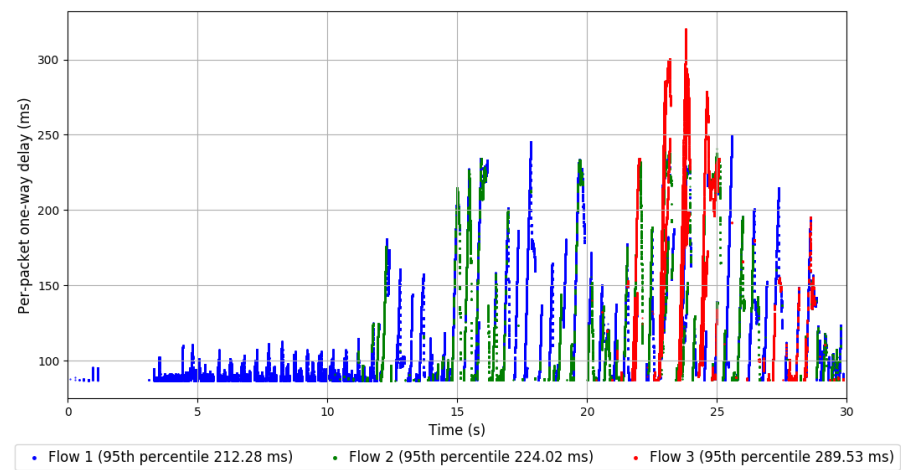
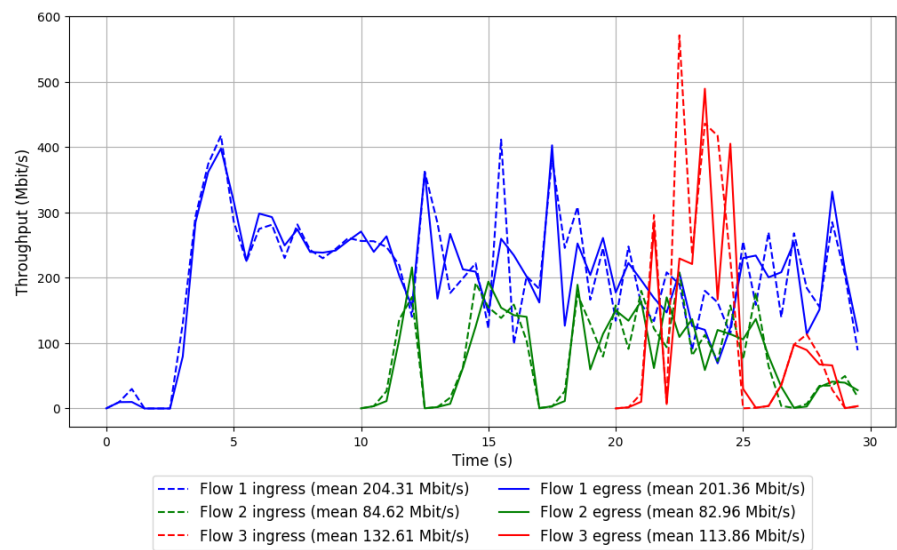
-- Flow 3:

Average throughput: 113.86 Mbit/s

95th percentile per-packet one-way delay: 289.529 ms

Loss rate: 14.60%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-01-09 16:37:43

End at: 2018-01-09 16:38:13

Below is generated by plot.py at 2018-01-09 19:24:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 270.87 Mbit/s

95th percentile per-packet one-way delay: 217.572 ms

Loss rate: 0.99%

-- Flow 1:

Average throughput: 192.17 Mbit/s

95th percentile per-packet one-way delay: 203.894 ms

Loss rate: 0.49%

-- Flow 2:

Average throughput: 102.95 Mbit/s

95th percentile per-packet one-way delay: 242.565 ms

Loss rate: 2.45%

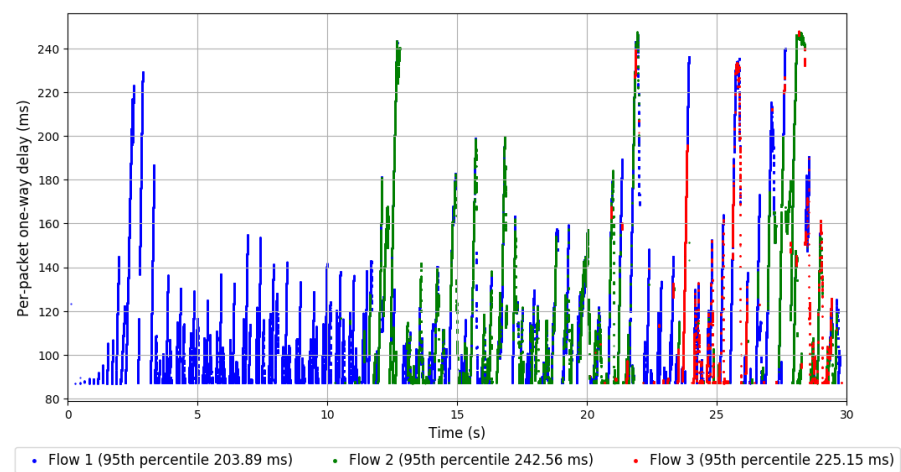
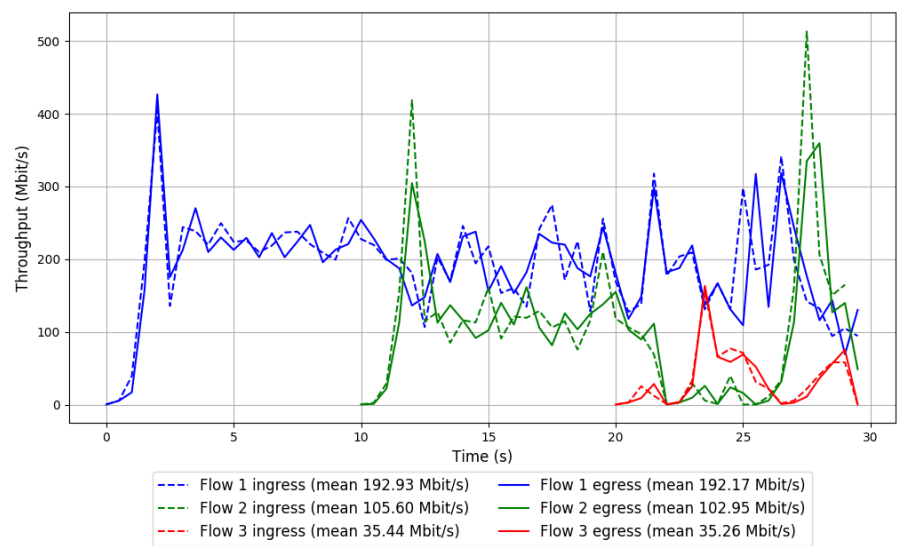
-- Flow 3:

Average throughput: 35.26 Mbit/s

95th percentile per-packet one-way delay: 225.154 ms

Loss rate: 0.54%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-01-09 16:52:21

End at: 2018-01-09 16:52:51

Below is generated by plot.py at 2018-01-09 19:26:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 350.13 Mbit/s

95th percentile per-packet one-way delay: 199.770 ms

Loss rate: 2.16%

-- Flow 1:

Average throughput: 203.30 Mbit/s

95th percentile per-packet one-way delay: 196.137 ms

Loss rate: 2.05%

-- Flow 2:

Average throughput: 182.85 Mbit/s

95th percentile per-packet one-way delay: 180.077 ms

Loss rate: 0.81%

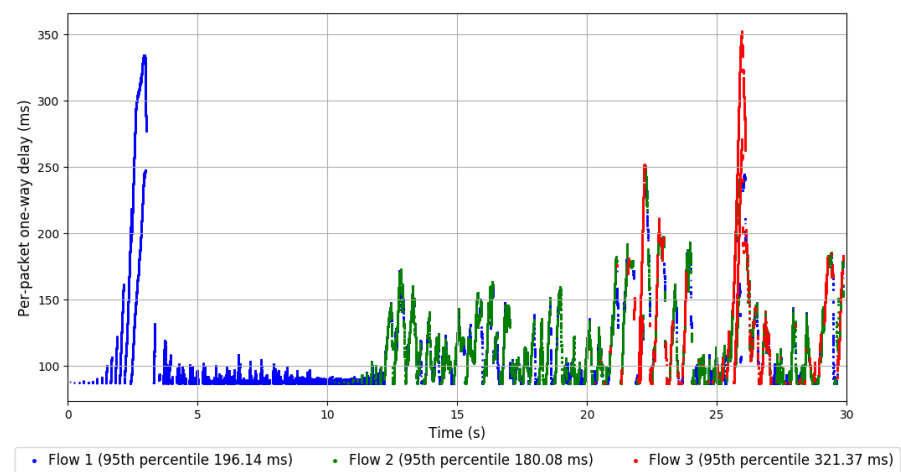
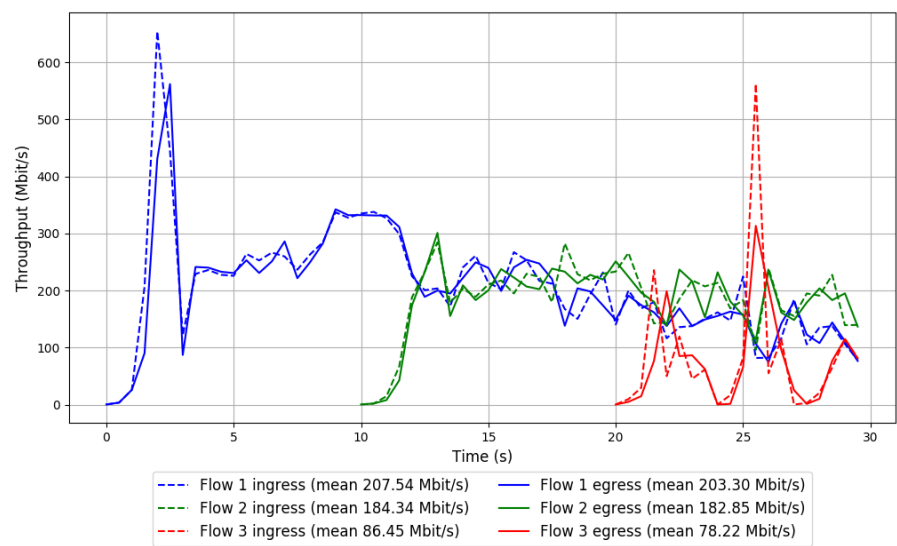
-- Flow 3:

Average throughput: 78.22 Mbit/s

95th percentile per-packet one-way delay: 321.374 ms

Loss rate: 8.82%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-01-09 17:07:14

End at: 2018-01-09 17:07:44

Below is generated by plot.py at 2018-01-09 19:26:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 241.72 Mbit/s

95th percentile per-packet one-way delay: 174.201 ms

Loss rate: 0.28%

-- Flow 1:

Average throughput: 125.68 Mbit/s

95th percentile per-packet one-way delay: 189.382 ms

Loss rate: 0.53%

-- Flow 2:

Average throughput: 99.54 Mbit/s

95th percentile per-packet one-way delay: 158.396 ms

Loss rate: 0.01%

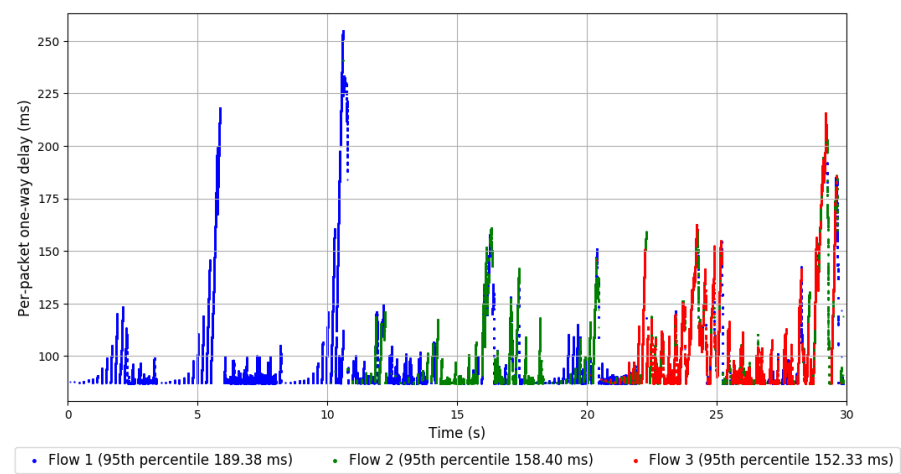
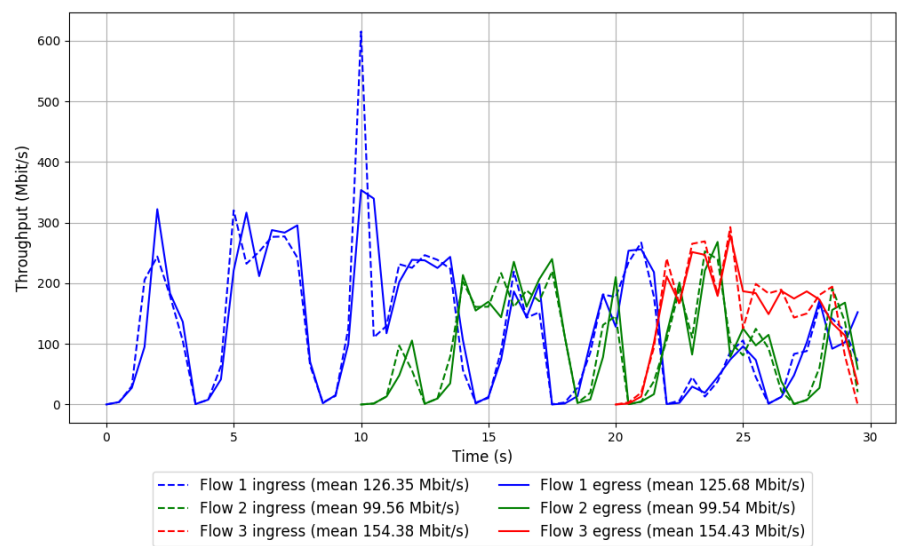
-- Flow 3:

Average throughput: 154.43 Mbit/s

95th percentile per-packet one-way delay: 152.326 ms

Loss rate: 0.00%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-01-09 17:21:49

End at: 2018-01-09 17:22:19

Below is generated by plot.py at 2018-01-09 19:26:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 211.19 Mbit/s

95th percentile per-packet one-way delay: 255.200 ms

Loss rate: 2.98%

-- Flow 1:

Average throughput: 81.87 Mbit/s

95th percentile per-packet one-way delay: 243.127 ms

Loss rate: 1.98%

-- Flow 2:

Average throughput: 180.43 Mbit/s

95th percentile per-packet one-way delay: 264.522 ms

Loss rate: 3.47%

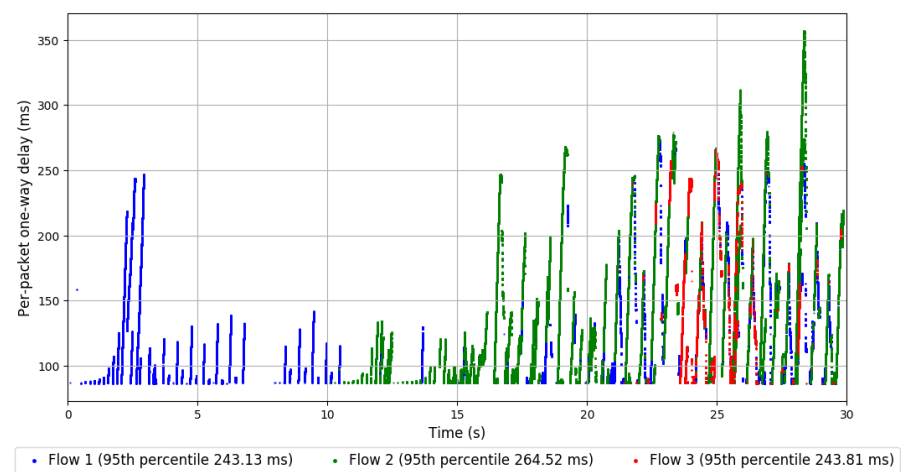
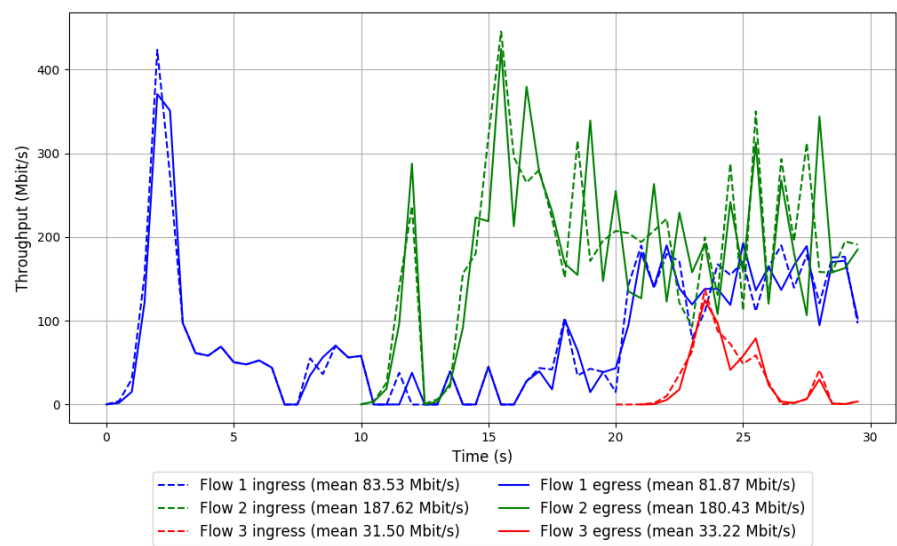
-- Flow 3:

Average throughput: 33.22 Mbit/s

95th percentile per-packet one-way delay: 243.814 ms

Loss rate: 5.33%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2018-01-09 14:59:59

End at: 2018-01-09 15:00:29

Below is generated by plot.py at 2018-01-09 19:26:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 82.07 Mbit/s

95th percentile per-packet one-way delay: 87.420 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 79.98 Mbit/s

95th percentile per-packet one-way delay: 87.401 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 9.64 Mbit/s

95th percentile per-packet one-way delay: 115.171 ms

Loss rate: 0.00%

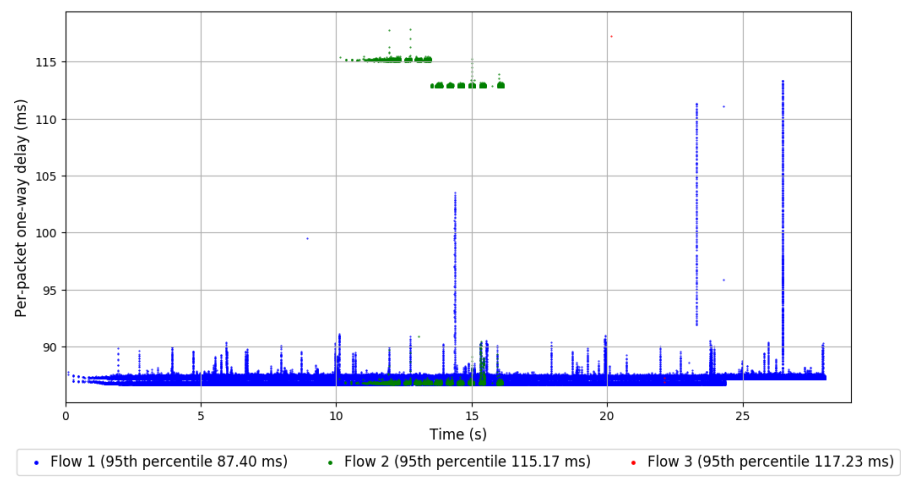
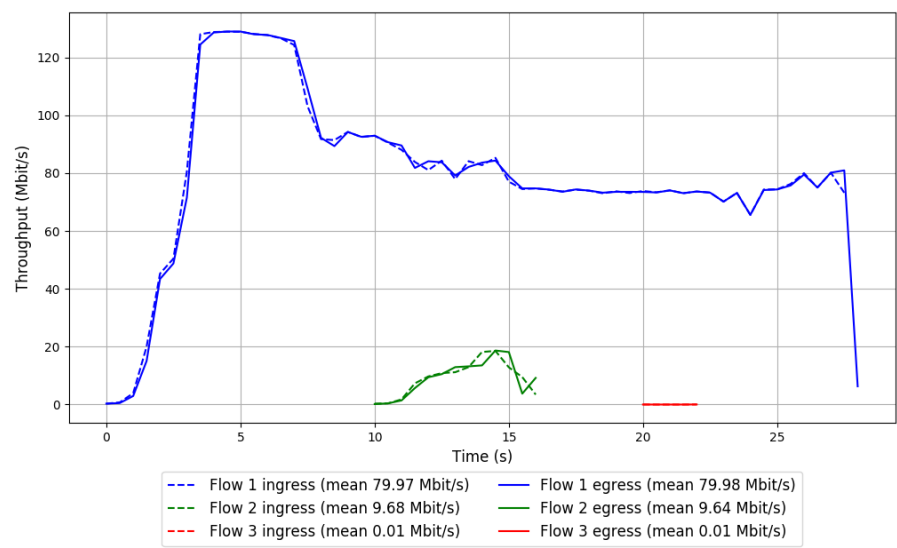
-- Flow 3:

Average throughput: 0.01 Mbit/s

95th percentile per-packet one-way delay: 117.233 ms

Loss rate: 46.17%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-01-09 15:14:33

End at: 2018-01-09 15:15:03

Below is generated by plot.py at 2018-01-09 19:26:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 121.13 Mbit/s

95th percentile per-packet one-way delay: 87.737 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 76.12 Mbit/s

95th percentile per-packet one-way delay: 87.724 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 65.17 Mbit/s

95th percentile per-packet one-way delay: 87.737 ms

Loss rate: 0.00%

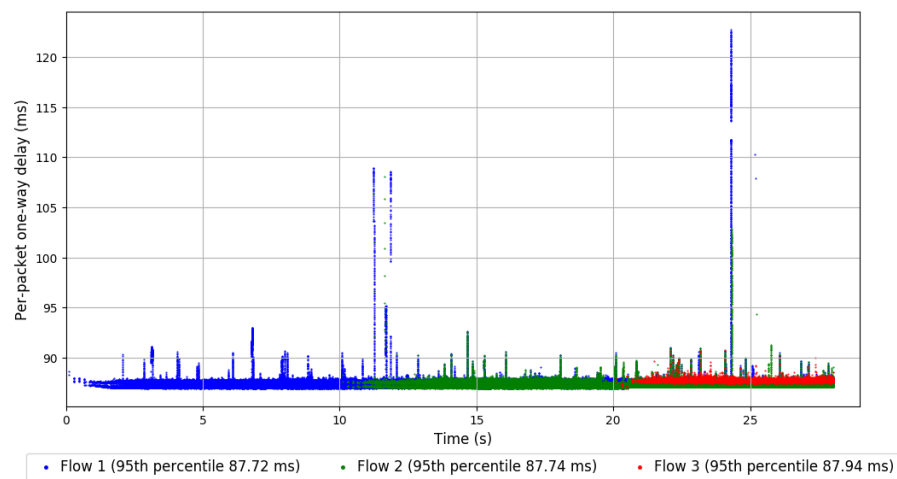
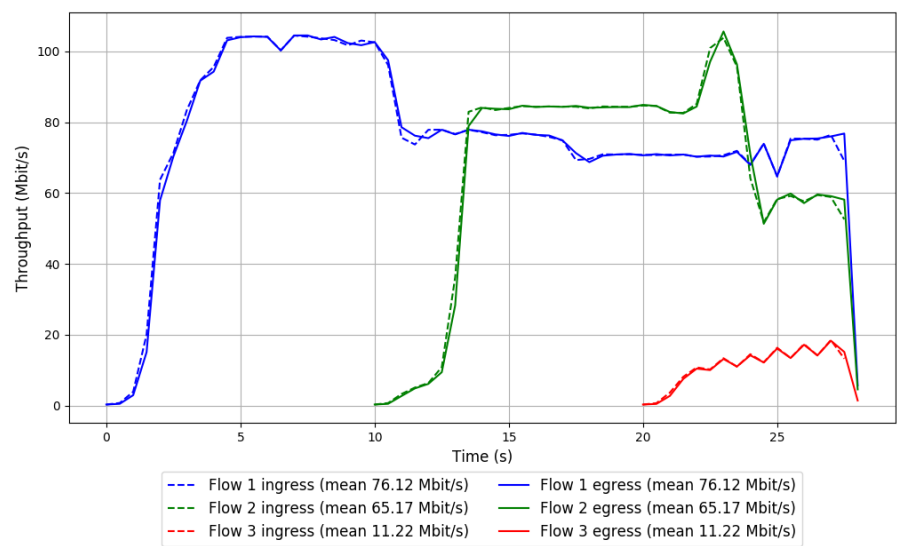
-- Flow 3:

Average throughput: 11.22 Mbit/s

95th percentile per-packet one-way delay: 87.937 ms

Loss rate: 0.00%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-01-09 15:29:25

End at: 2018-01-09 15:29:55

Below is generated by plot.py at 2018-01-09 19:26:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 13.22 Mbit/s

95th percentile per-packet one-way delay: 115.612 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 8.89 Mbit/s

95th percentile per-packet one-way delay: 115.598 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 10.82 Mbit/s

95th percentile per-packet one-way delay: 115.625 ms

Loss rate: 0.00%

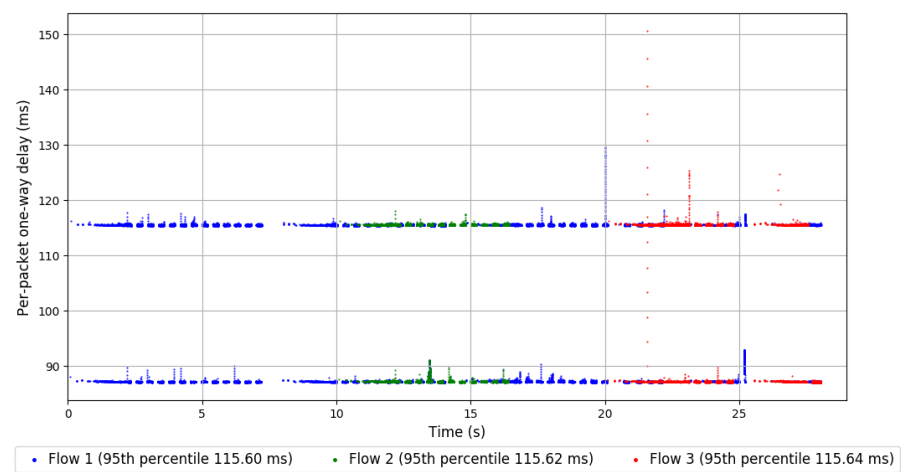
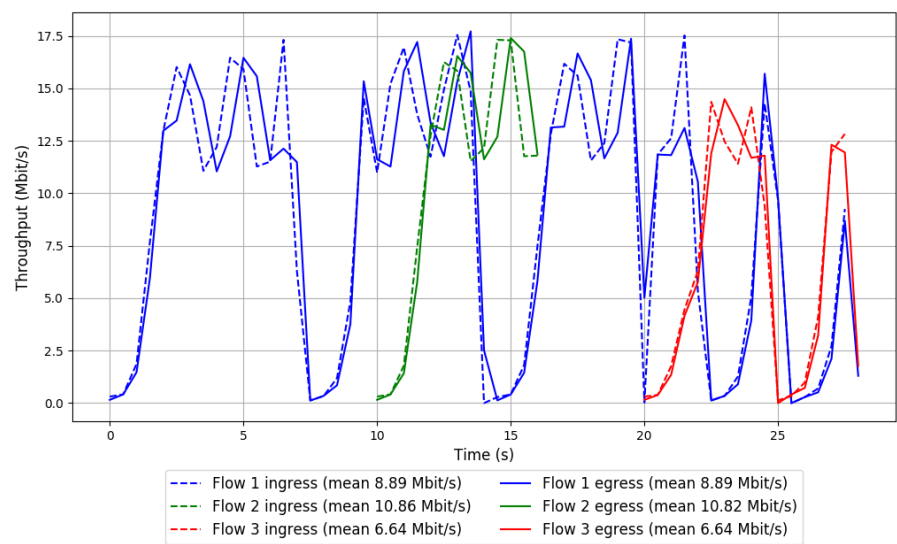
-- Flow 3:

Average throughput: 6.64 Mbit/s

95th percentile per-packet one-way delay: 115.643 ms

Loss rate: 0.00%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-01-09 15:43:57

End at: 2018-01-09 15:44:27

Below is generated by plot.py at 2018-01-09 19:26:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 127.51 Mbit/s

95th percentile per-packet one-way delay: 87.998 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 69.77 Mbit/s

95th percentile per-packet one-way delay: 87.956 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 63.32 Mbit/s

95th percentile per-packet one-way delay: 88.069 ms

Loss rate: 0.00%

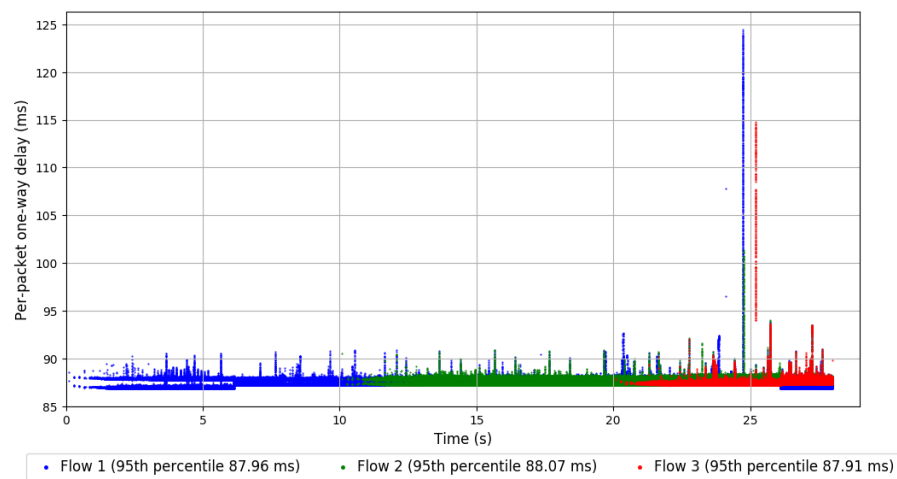
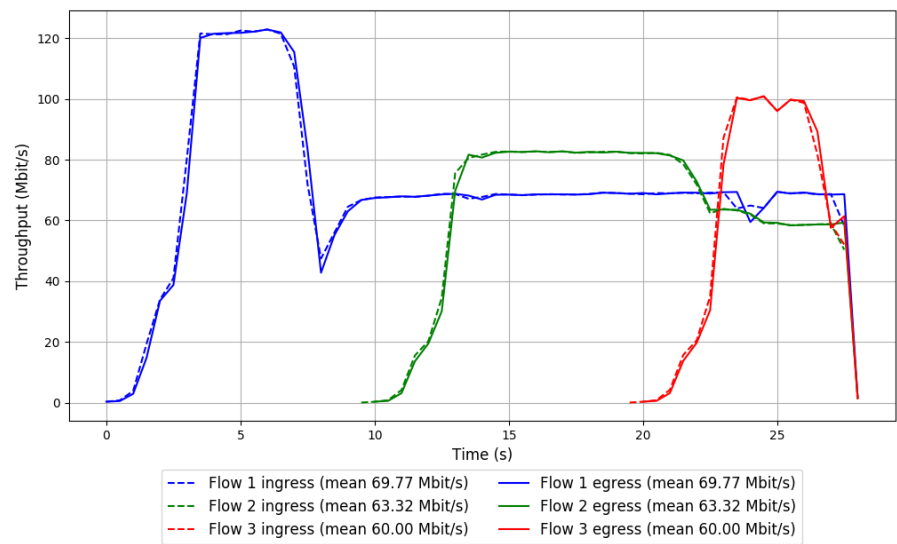
-- Flow 3:

Average throughput: 60.00 Mbit/s

95th percentile per-packet one-way delay: 87.912 ms

Loss rate: 0.00%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-01-09 15:58:36

End at: 2018-01-09 15:59:06

Below is generated by plot.py at 2018-01-09 19:26:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 99.16 Mbit/s

95th percentile per-packet one-way delay: 87.638 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 73.76 Mbit/s

95th percentile per-packet one-way delay: 87.502 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 11.45 Mbit/s

95th percentile per-packet one-way delay: 115.815 ms

Loss rate: 0.08%

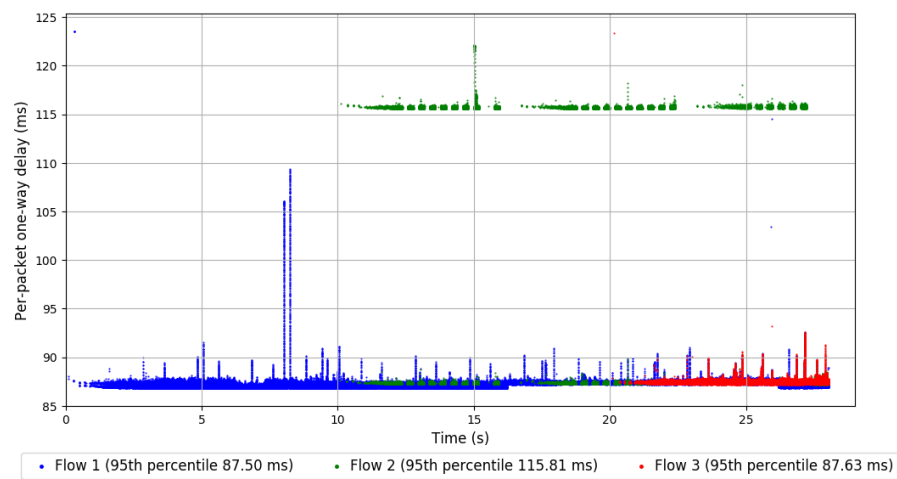
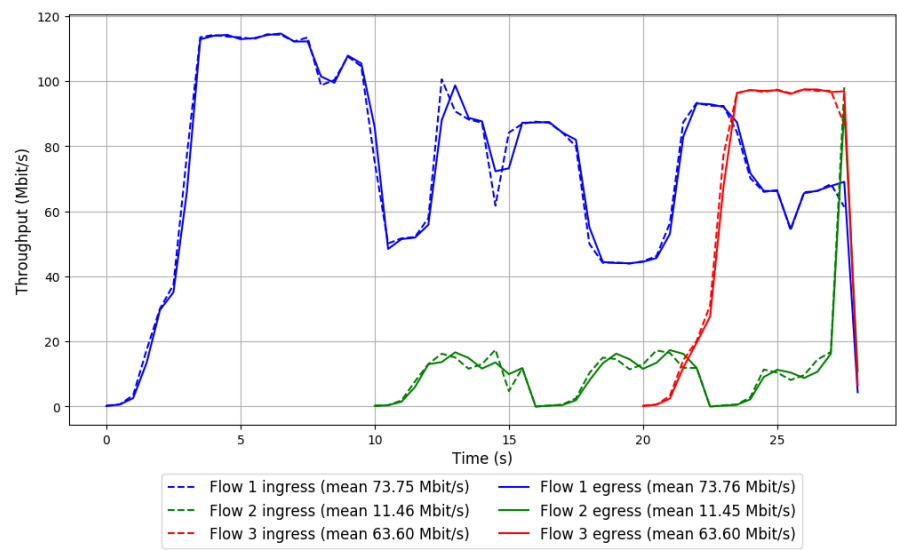
-- Flow 3:

Average throughput: 63.60 Mbit/s

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

Loss rate: 0.02%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-01-09 16:13:11

End at: 2018-01-09 16:13:41

Below is generated by plot.py at 2018-01-09 19:27:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 132.96 Mbit/s

95th percentile per-packet one-way delay: 87.494 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 69.86 Mbit/s

95th percentile per-packet one-way delay: 87.518 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 74.76 Mbit/s

95th percentile per-packet one-way delay: 87.442 ms

Loss rate: 0.00%

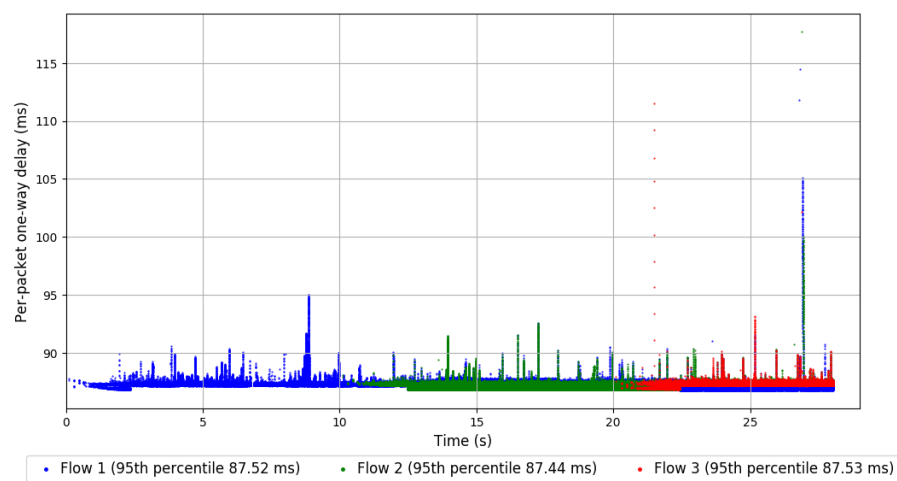
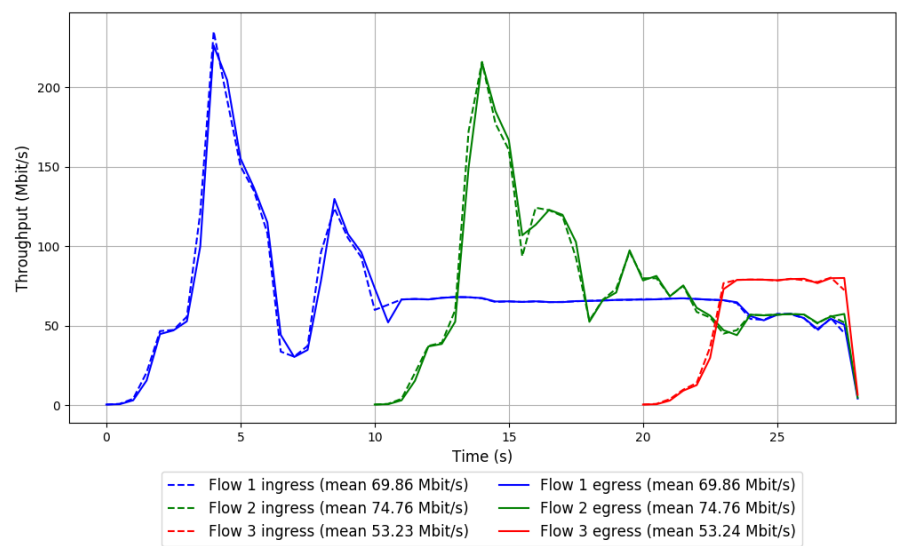
-- Flow 3:

Average throughput: 53.24 Mbit/s

95th percentile per-packet one-way delay: 87.530 ms

Loss rate: 0.00%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-01-09 16:28:04

End at: 2018-01-09 16:28:34

Below is generated by plot.py at 2018-01-09 19:28:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 139.76 Mbit/s

95th percentile per-packet one-way delay: 87.423 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 74.39 Mbit/s

95th percentile per-packet one-way delay: 87.460 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 73.32 Mbit/s

95th percentile per-packet one-way delay: 87.310 ms

Loss rate: 0.00%

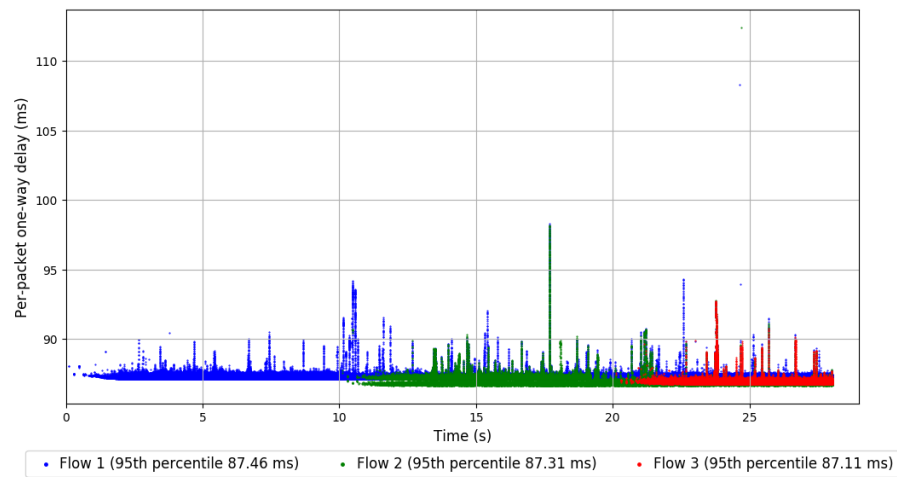
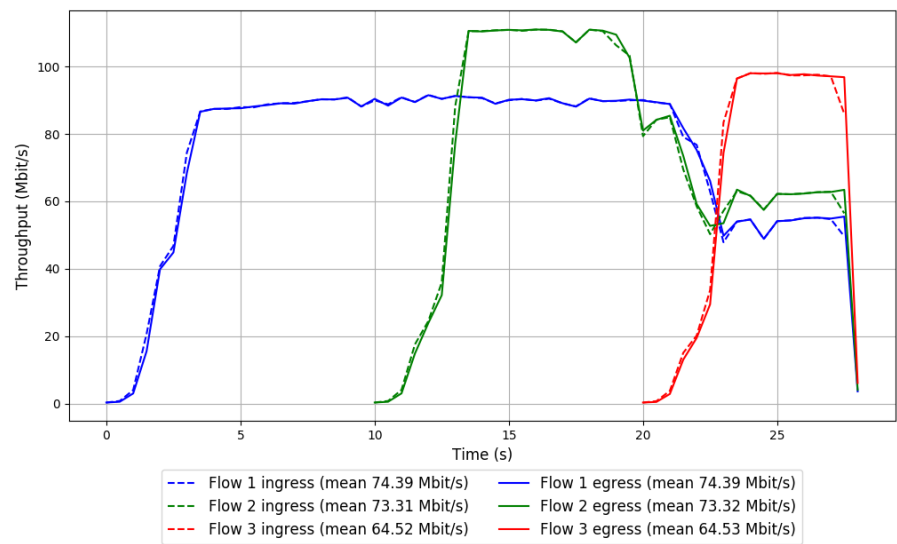
-- Flow 3:

Average throughput: 64.53 Mbit/s

95th percentile per-packet one-way delay: 87.105 ms

Loss rate: 0.00%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-01-09 16:42:41

End at: 2018-01-09 16:43:11

Below is generated by plot.py at 2018-01-09 19:28:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 145.44 Mbit/s

95th percentile per-packet one-way delay: 87.772 ms

Loss rate: 0.15%

-- Flow 1:

Average throughput: 77.09 Mbit/s

95th percentile per-packet one-way delay: 87.819 ms

Loss rate: 0.12%

-- Flow 2:

Average throughput: 77.80 Mbit/s

95th percentile per-packet one-way delay: 87.717 ms

Loss rate: 0.12%

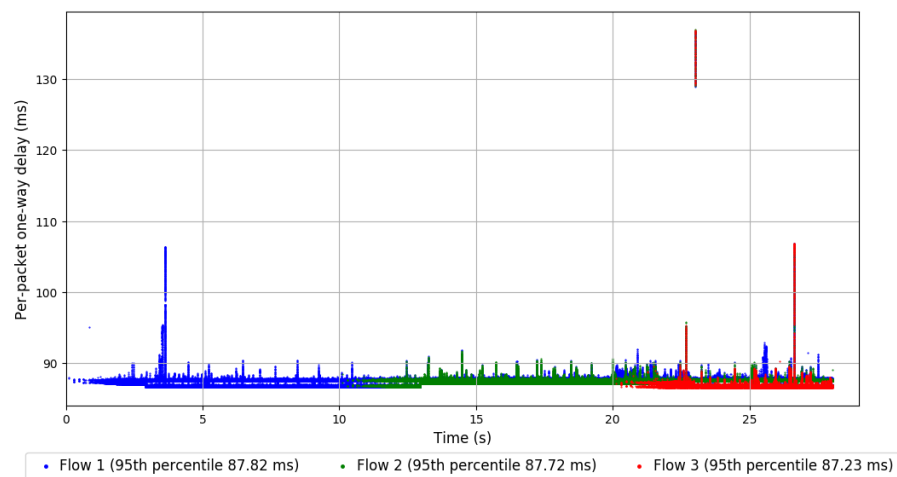
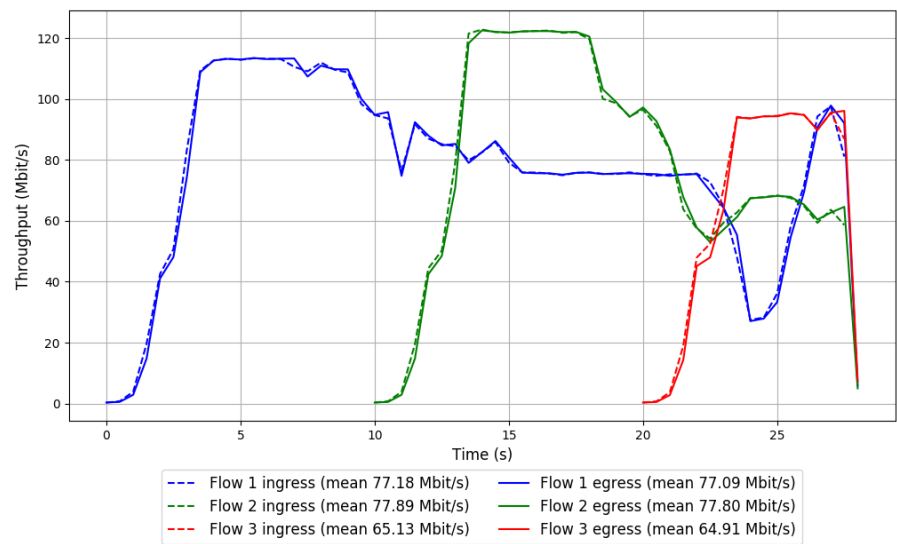
-- Flow 3:

Average throughput: 64.91 Mbit/s

95th percentile per-packet one-way delay: 87.229 ms

Loss rate: 0.37%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-01-09 16:57:40

End at: 2018-01-09 16:58:10

Below is generated by plot.py at 2018-01-09 19:28:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 121.66 Mbit/s

95th percentile per-packet one-way delay: 87.732 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 69.13 Mbit/s

95th percentile per-packet one-way delay: 87.620 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 62.55 Mbit/s

95th percentile per-packet one-way delay: 87.748 ms

Loss rate: 0.00%

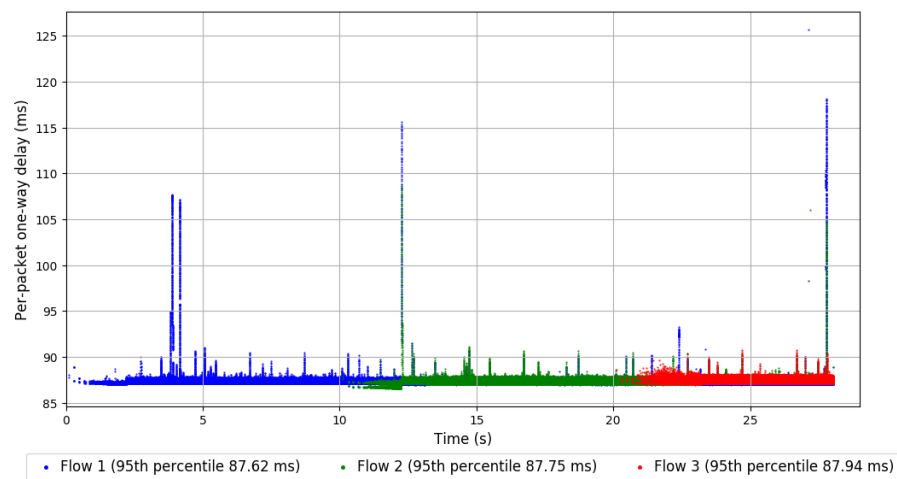
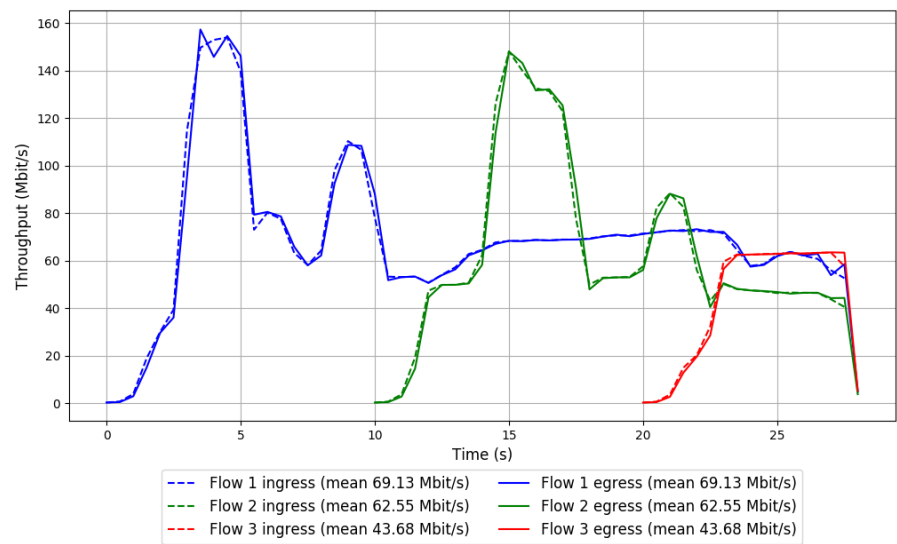
-- Flow 3:

Average throughput: 43.68 Mbit/s

95th percentile per-packet one-way delay: 87.940 ms

Loss rate: 0.00%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-01-09 17:12:14

End at: 2018-01-09 17:12:44

Below is generated by plot.py at 2018-01-09 19:29:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 136.91 Mbit/s

95th percentile per-packet one-way delay: 87.755 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 73.92 Mbit/s

95th percentile per-packet one-way delay: 87.765 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 79.79 Mbit/s

95th percentile per-packet one-way delay: 87.297 ms

Loss rate: 0.01%

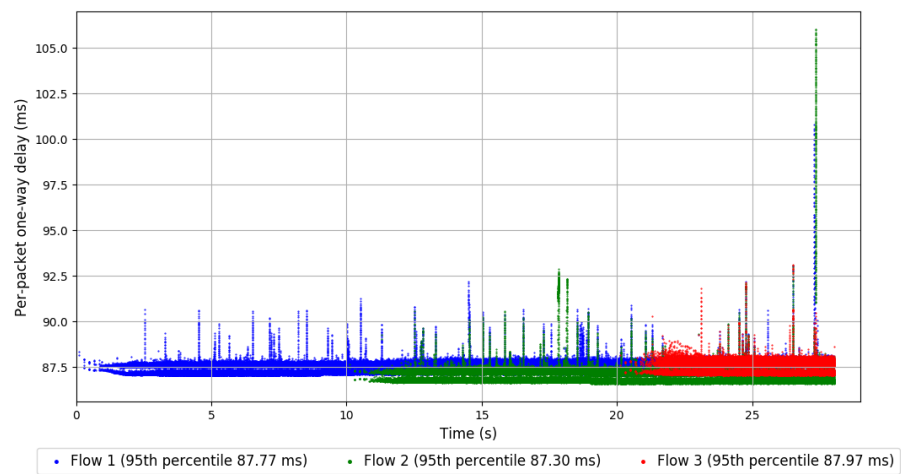
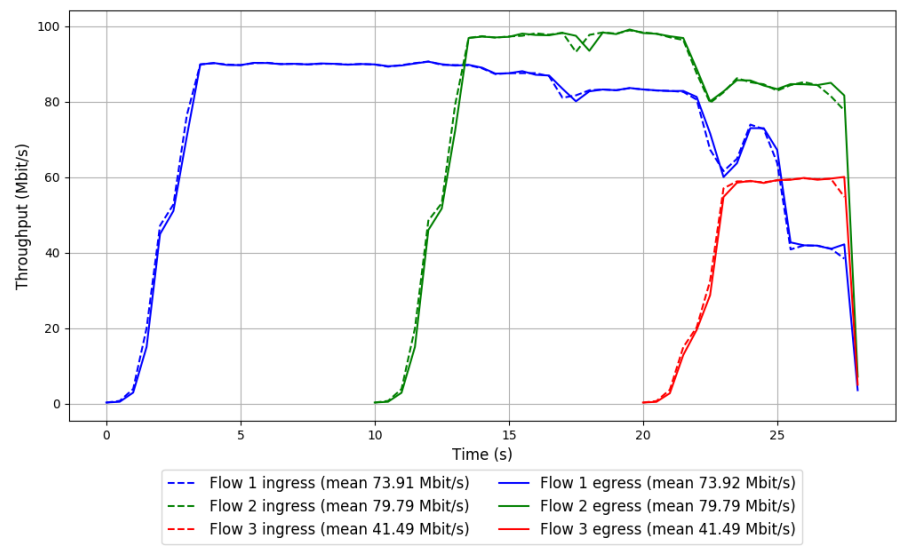
-- Flow 3:

Average throughput: 41.49 Mbit/s

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

Loss rate: 0.02%

Run 10: Report of Copa — Data Link

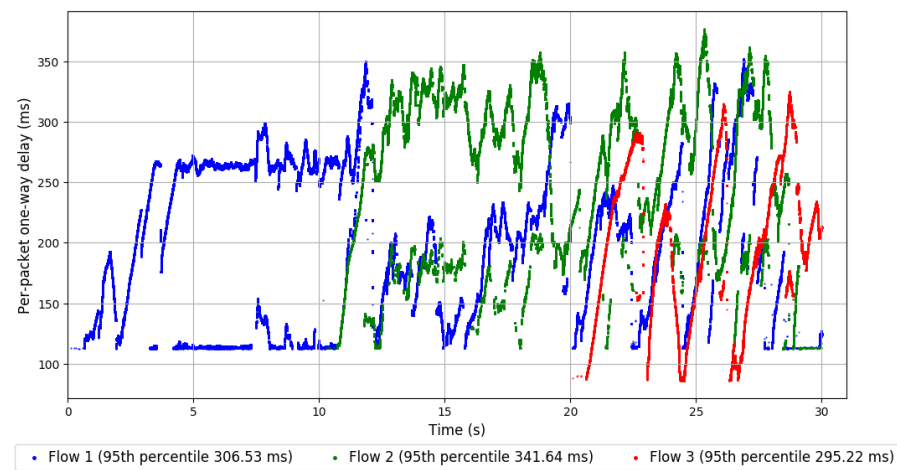
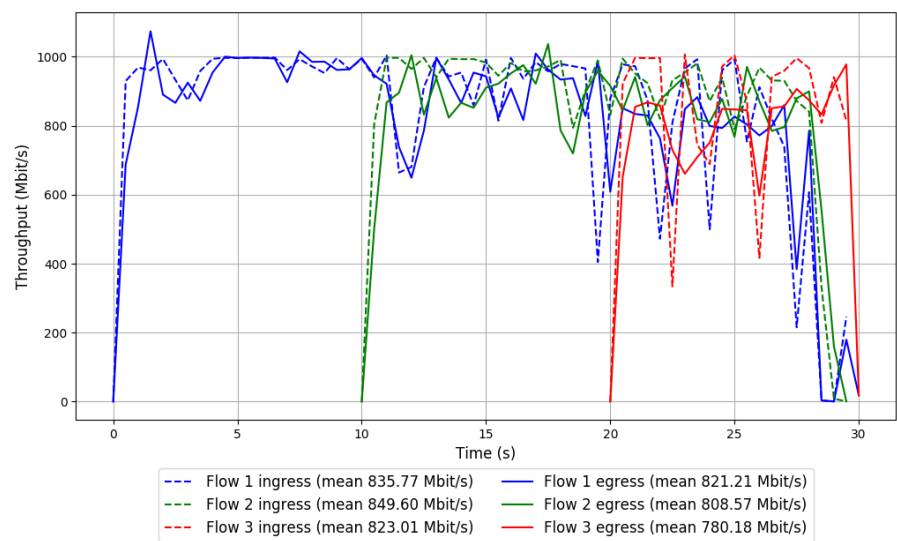


```
Run 1: Statistics of FillP

Start at: 2018-01-09 14:55:51
End at: 2018-01-09 14:56:21

# Below is generated by plot.py at 2018-01-09 19:53:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1616.34 Mbit/s
95th percentile per-packet one-way delay: 328.384 ms
Loss rate: 3.72%
-- Flow 1:
Average throughput: 821.21 Mbit/s
95th percentile per-packet one-way delay: 306.532 ms
Loss rate: 1.97%
-- Flow 2:
Average throughput: 808.57 Mbit/s
95th percentile per-packet one-way delay: 341.637 ms
Loss rate: 5.40%
-- Flow 3:
Average throughput: 780.18 Mbit/s
95th percentile per-packet one-way delay: 295.221 ms
Loss rate: 5.62%
```


Run 1: Report of FillP — Data Link

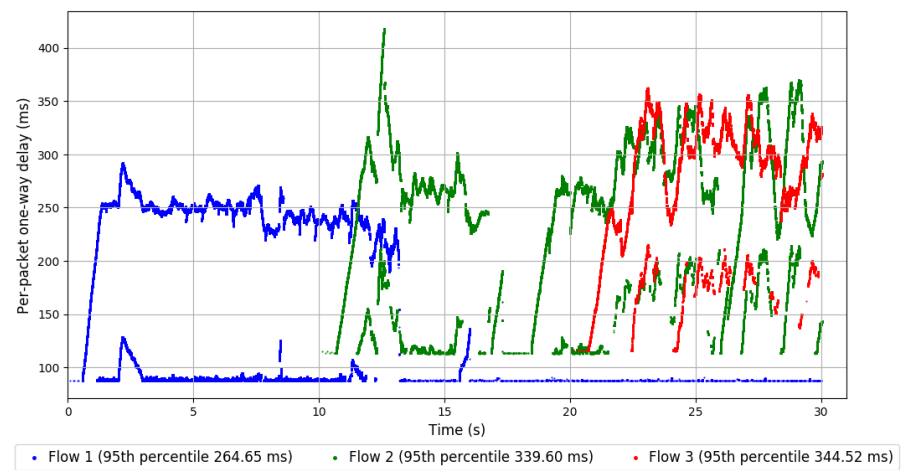
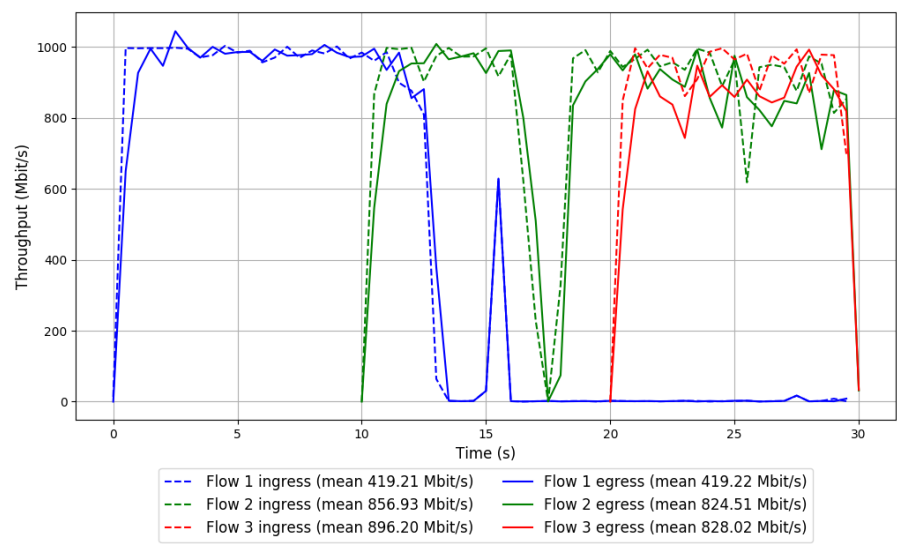


```
Run 2: Statistics of FillP

Start at: 2018-01-09 15:10:38
End at: 2018-01-09 15:11:08

# Below is generated by plot.py at 2018-01-09 19:53:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1240.10 Mbit/s
95th percentile per-packet one-way delay: 335.676 ms
Loss rate: 3.55%
-- Flow 1:
Average throughput: 419.22 Mbit/s
95th percentile per-packet one-way delay: 264.654 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 824.51 Mbit/s
95th percentile per-packet one-way delay: 339.597 ms
Loss rate: 3.92%
-- Flow 3:
Average throughput: 828.02 Mbit/s
95th percentile per-packet one-way delay: 344.523 ms
Loss rate: 7.87%
```

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-01-09 15:25:12

End at: 2018-01-09 15:25:42

Below is generated by plot.py at 2018-01-09 19:54:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 1639.68 Mbit/s

95th percentile per-packet one-way delay: 337.531 ms

Loss rate: 6.58%

-- Flow 1:

Average throughput: 884.31 Mbit/s

95th percentile per-packet one-way delay: 316.450 ms

Loss rate: 2.69%

-- Flow 2:

Average throughput: 782.59 Mbit/s

95th percentile per-packet one-way delay: 352.037 ms

Loss rate: 10.57%

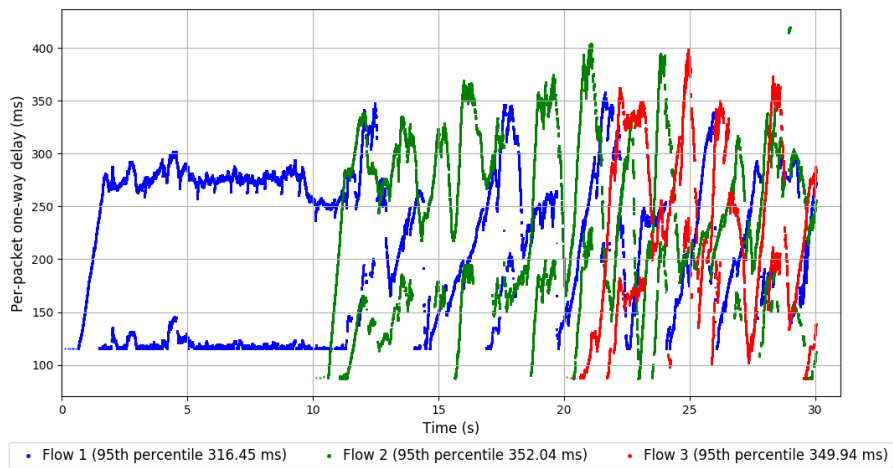
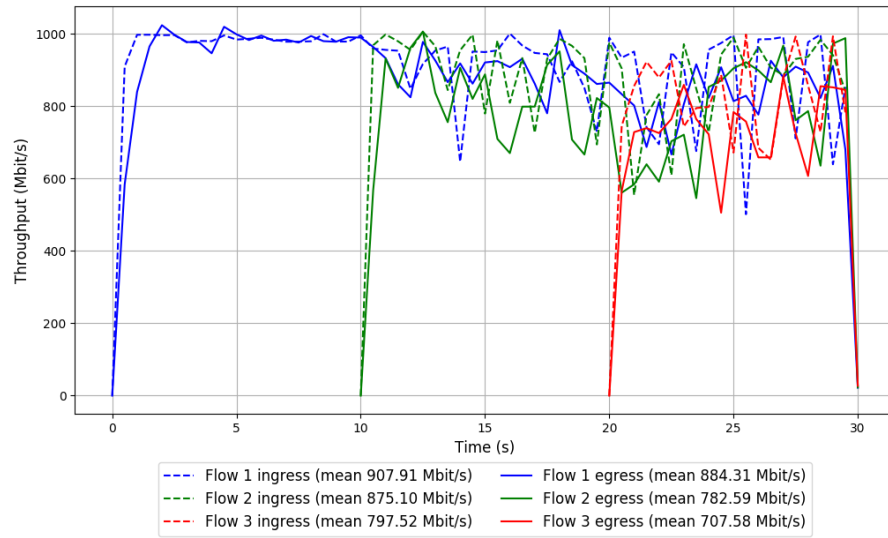
-- Flow 3:

Average throughput: 707.58 Mbit/s

95th percentile per-packet one-way delay: 349.942 ms

Loss rate: 11.17%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-01-09 15:39:59

End at: 2018-01-09 15:40:29

Below is generated by plot.py at 2018-01-09 19:54:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 1374.41 Mbit/s

95th percentile per-packet one-way delay: 308.076 ms

Loss rate: 4.35%

-- Flow 1:

Average throughput: 897.61 Mbit/s

95th percentile per-packet one-way delay: 309.984 ms

Loss rate: 4.05%

-- Flow 2:

Average throughput: 299.52 Mbit/s

95th percentile per-packet one-way delay: 254.699 ms

Loss rate: 0.87%

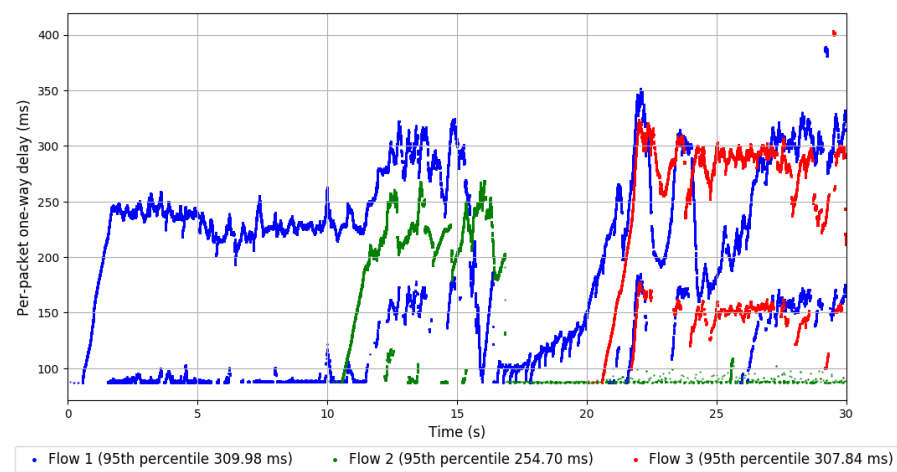
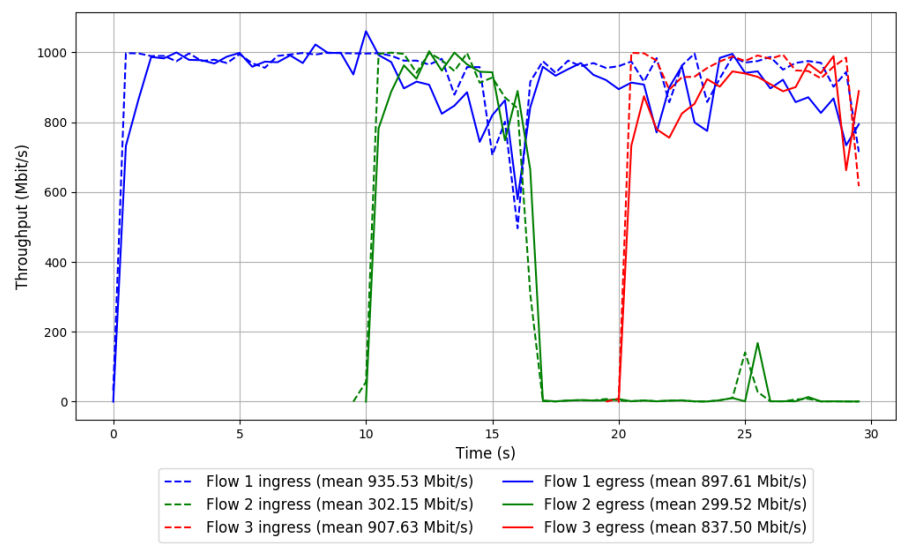
-- Flow 3:

Average throughput: 837.50 Mbit/s

95th percentile per-packet one-way delay: 307.840 ms

Loss rate: 7.60%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-01-09 15:54:43

End at: 2018-01-09 15:55:13

Below is generated by plot.py at 2018-01-09 19:54:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 1213.55 Mbit/s

95th percentile per-packet one-way delay: 303.759 ms

Loss rate: 2.18%

-- Flow 1:

Average throughput: 593.22 Mbit/s

95th percentile per-packet one-way delay: 303.686 ms

Loss rate: 2.44%

-- Flow 2:

Average throughput: 496.16 Mbit/s

95th percentile per-packet one-way delay: 306.832 ms

Loss rate: 2.03%

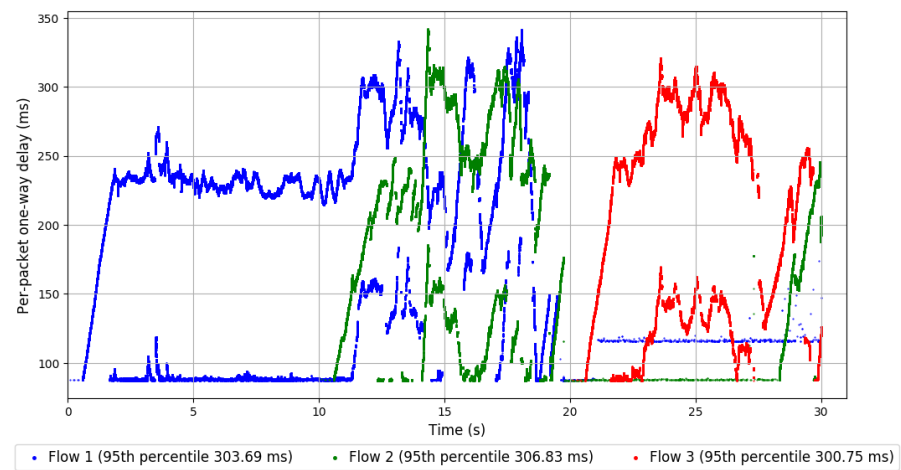
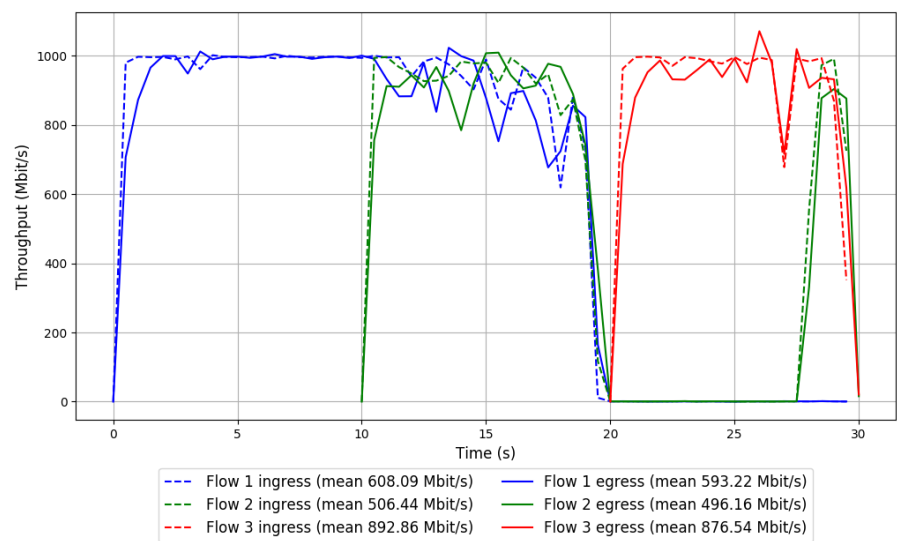
-- Flow 3:

Average throughput: 876.54 Mbit/s

95th percentile per-packet one-way delay: 300.753 ms

Loss rate: 1.83%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-01-09 16:09:14

End at: 2018-01-09 16:09:44

Below is generated by plot.py at 2018-01-09 19:54:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 1356.87 Mbit/s

95th percentile per-packet one-way delay: 316.149 ms

Loss rate: 6.77%

-- Flow 1:

Average throughput: 631.47 Mbit/s

95th percentile per-packet one-way delay: 318.990 ms

Loss rate: 6.21%

-- Flow 2:

Average throughput: 798.04 Mbit/s

95th percentile per-packet one-way delay: 305.348 ms

Loss rate: 7.19%

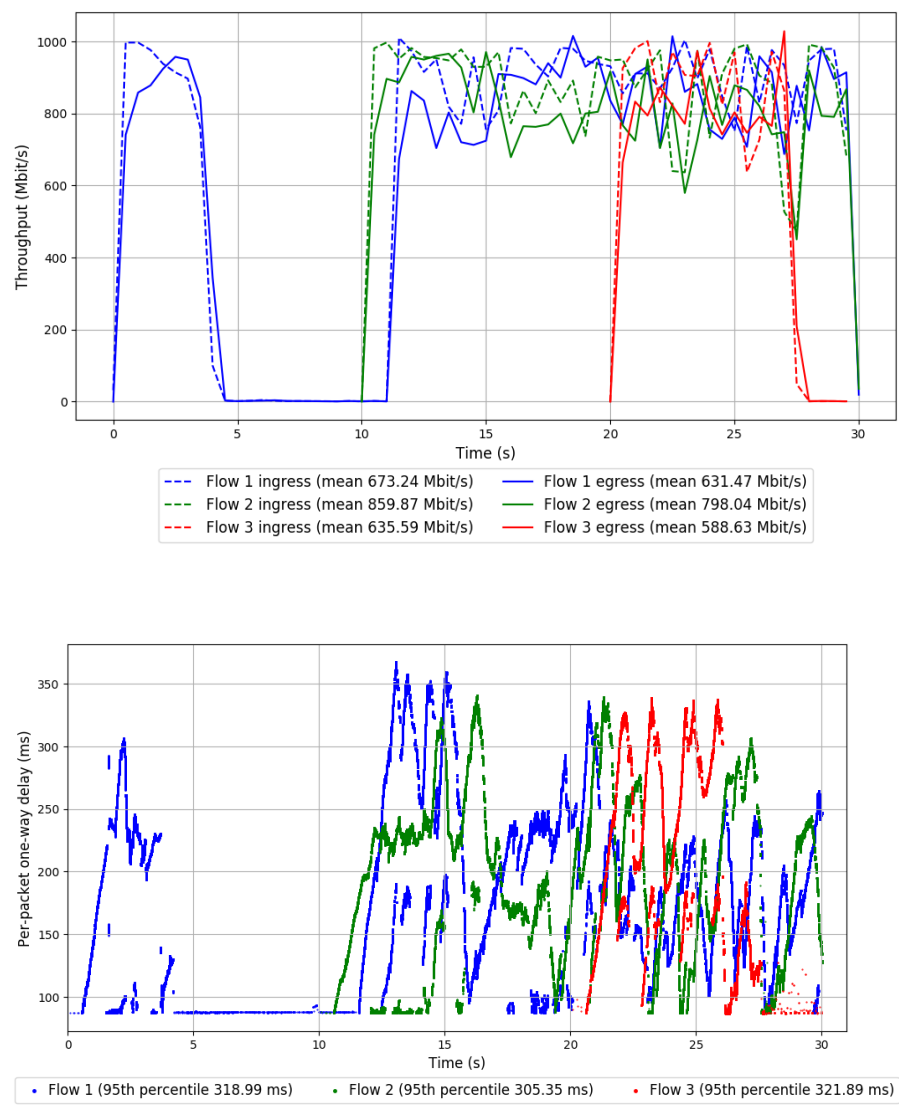
-- Flow 3:

Average throughput: 588.63 Mbit/s

95th percentile per-packet one-way delay: 321.893 ms

Loss rate: 7.40%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-01-09 16:24:02

End at: 2018-01-09 16:24:32

Below is generated by plot.py at 2018-01-09 19:54:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 1462.75 Mbit/s

95th percentile per-packet one-way delay: 306.783 ms

Loss rate: 3.80%

-- Flow 1:

Average throughput: 713.72 Mbit/s

95th percentile per-packet one-way delay: 295.702 ms

Loss rate: 2.12%

-- Flow 2:

Average throughput: 811.88 Mbit/s

95th percentile per-packet one-way delay: 312.247 ms

Loss rate: 4.43%

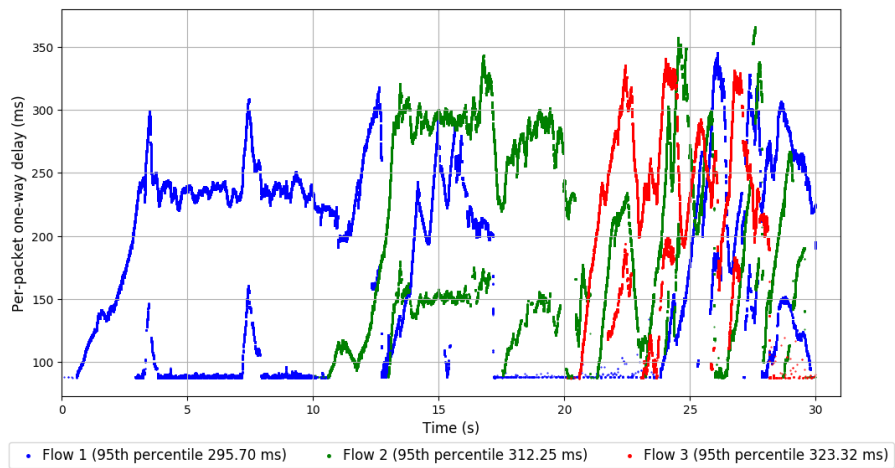
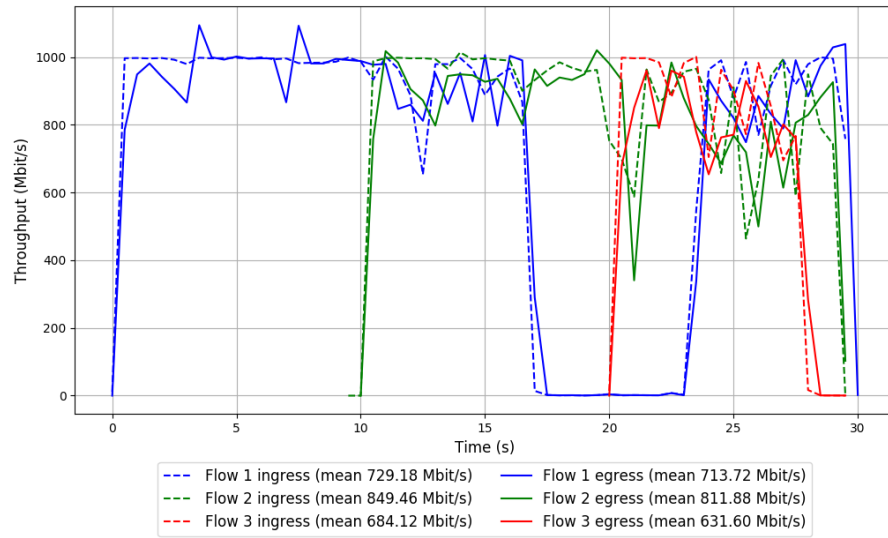
-- Flow 3:

Average throughput: 631.60 Mbit/s

95th percentile per-packet one-way delay: 323.319 ms

Loss rate: 7.65%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-01-09 16:38:49

End at: 2018-01-09 16:39:19

Below is generated by plot.py at 2018-01-09 19:54:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 1175.71 Mbit/s

95th percentile per-packet one-way delay: 269.453 ms

Loss rate: 1.24%

-- Flow 1:

Average throughput: 849.54 Mbit/s

95th percentile per-packet one-way delay: 243.638 ms

Loss rate: 0.75%

-- Flow 2:

Average throughput: 224.84 Mbit/s

95th percentile per-packet one-way delay: 323.224 ms

Loss rate: 3.07%

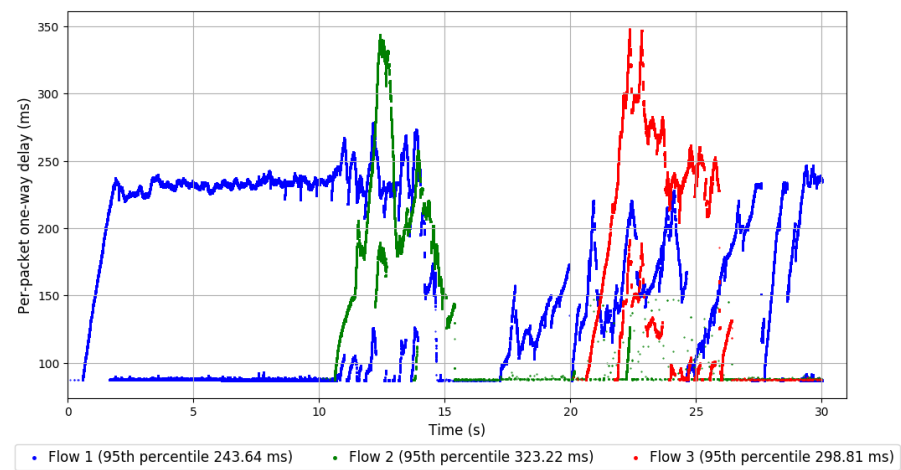
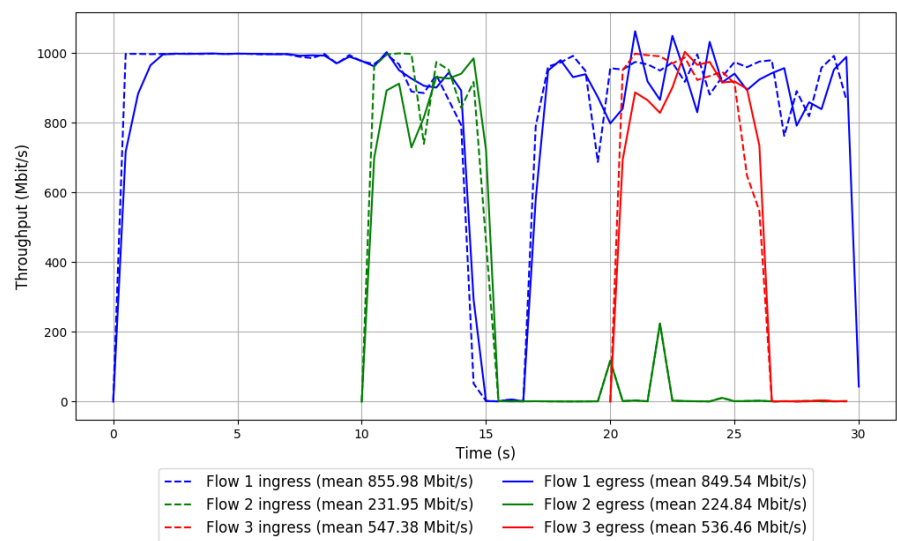
-- Flow 3:

Average throughput: 536.46 Mbit/s

95th percentile per-packet one-way delay: 298.813 ms

Loss rate: 2.02%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-01-09 16:53:34

End at: 2018-01-09 16:54:04

Below is generated by plot.py at 2018-01-09 20:02:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 1465.22 Mbit/s

95th percentile per-packet one-way delay: 319.525 ms

Loss rate: 4.75%

-- Flow 1:

Average throughput: 634.61 Mbit/s

95th percentile per-packet one-way delay: 304.043 ms

Loss rate: 0.95%

-- Flow 2:

Average throughput: 851.95 Mbit/s

95th percentile per-packet one-way delay: 319.262 ms

Loss rate: 6.60%

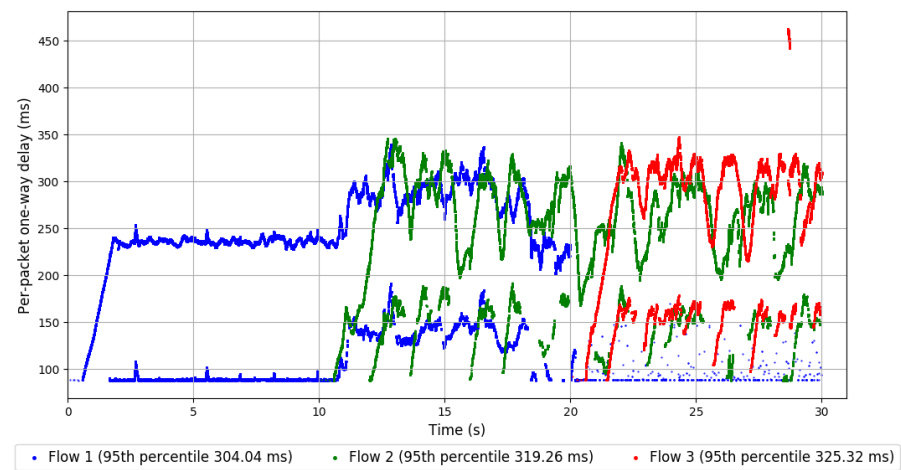
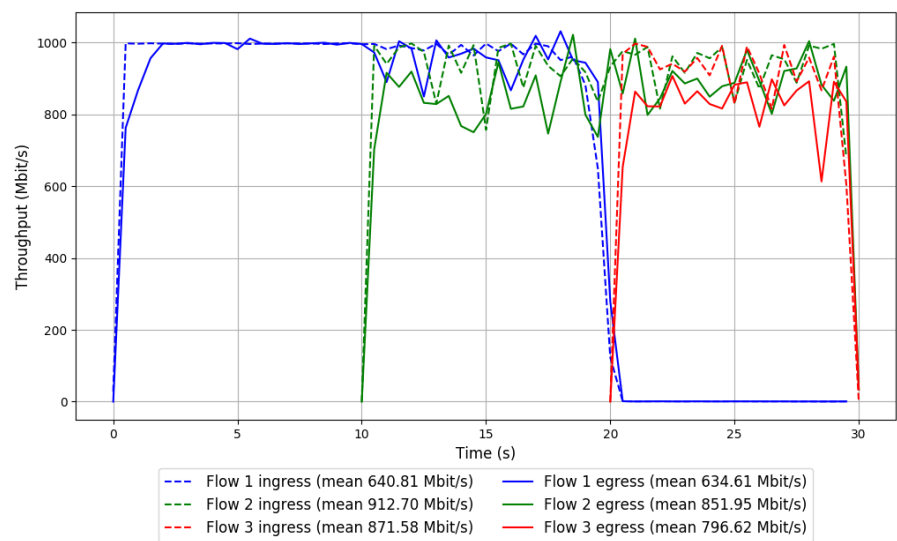
-- Flow 3:

Average throughput: 796.62 Mbit/s

95th percentile per-packet one-way delay: 325.321 ms

Loss rate: 9.28%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-01-09 17:08:18

End at: 2018-01-09 17:08:48

Below is generated by plot.py at 2018-01-09 20:02:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 1359.32 Mbit/s

95th percentile per-packet one-way delay: 302.398 ms

Loss rate: 4.66%

-- Flow 1:

Average throughput: 509.93 Mbit/s

95th percentile per-packet one-way delay: 297.876 ms

Loss rate: 3.67%

-- Flow 2:

Average throughput: 847.52 Mbit/s

95th percentile per-packet one-way delay: 309.067 ms

Loss rate: 6.39%

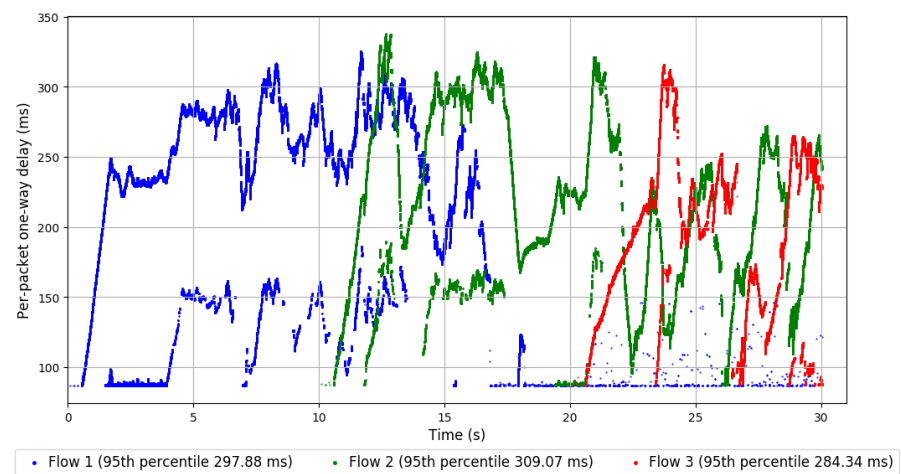
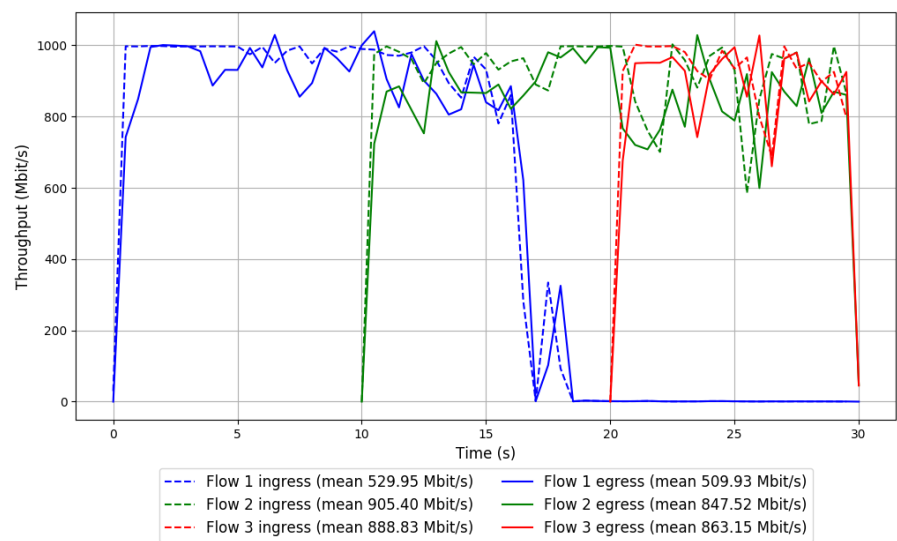
-- Flow 3:

Average throughput: 863.15 Mbit/s

95th percentile per-packet one-way delay: 284.338 ms

Loss rate: 2.89%

Run 10: Report of FillP — Data Link

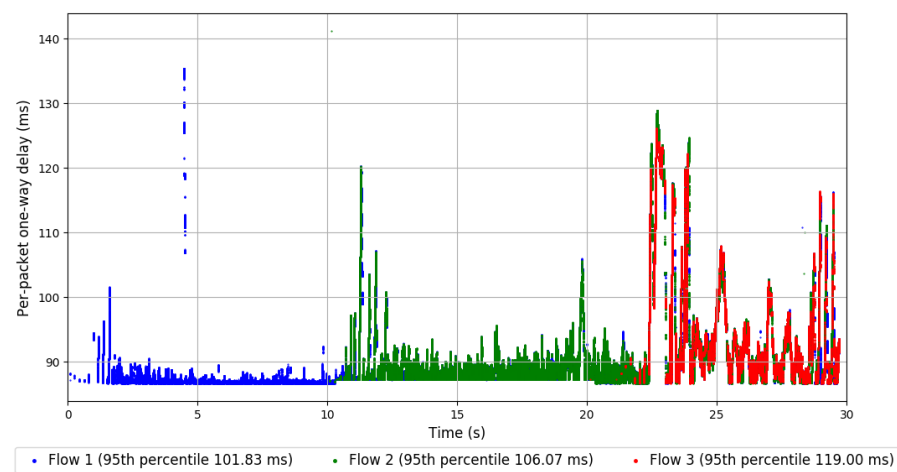
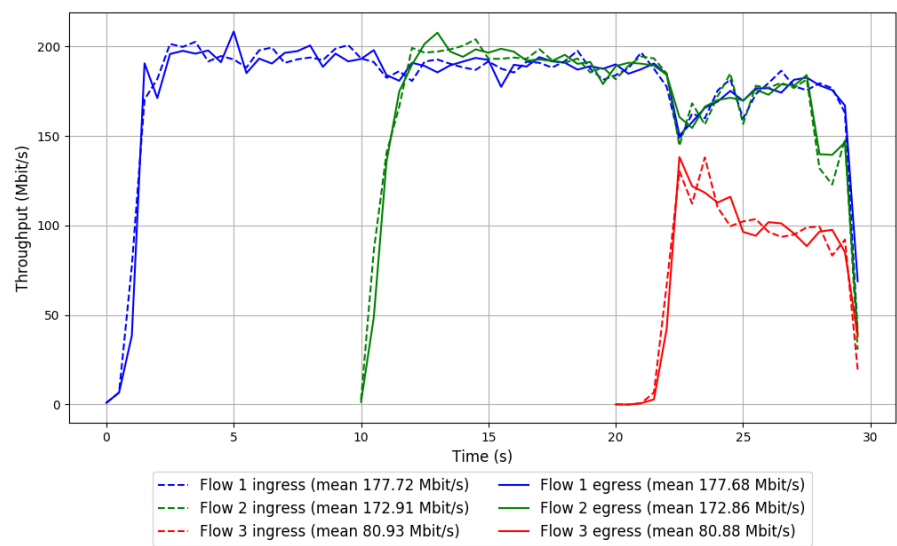


```
Run 1: Statistics of Indigo

Start at: 2018-01-09 15:01:45
End at: 2018-01-09 15:02:15

# Below is generated by plot.py at 2018-01-09 20:02:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 318.05 Mbit/s
95th percentile per-packet one-way delay: 106.253 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 177.68 Mbit/s
95th percentile per-packet one-way delay: 101.825 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 172.86 Mbit/s
95th percentile per-packet one-way delay: 106.074 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 80.88 Mbit/s
95th percentile per-packet one-way delay: 119.002 ms
Loss rate: 0.02%
```

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2018-01-09 15:16:24

End at: 2018-01-09 15:16:54

Below is generated by plot.py at 2018-01-09 20:02:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 308.46 Mbit/s

95th percentile per-packet one-way delay: 107.439 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 172.48 Mbit/s

95th percentile per-packet one-way delay: 103.145 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 169.43 Mbit/s

95th percentile per-packet one-way delay: 108.119 ms

Loss rate: 0.04%

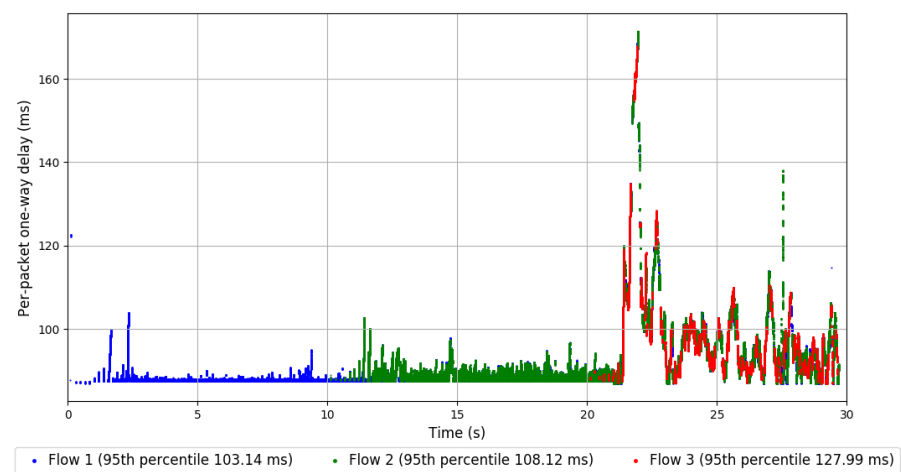
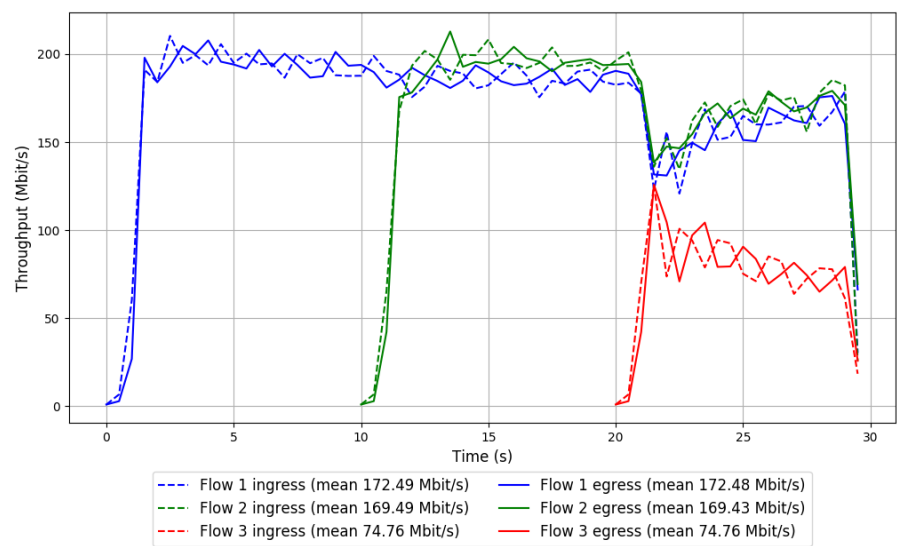
-- Flow 3:

Average throughput: 74.76 Mbit/s

95th percentile per-packet one-way delay: 127.986 ms

Loss rate: 0.00%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2018-01-09 15:31:04

End at: 2018-01-09 15:31:34

Below is generated by plot.py at 2018-01-09 20:02:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 312.83 Mbit/s

95th percentile per-packet one-way delay: 109.167 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 171.68 Mbit/s

95th percentile per-packet one-way delay: 104.815 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 167.24 Mbit/s

95th percentile per-packet one-way delay: 110.181 ms

Loss rate: 0.02%

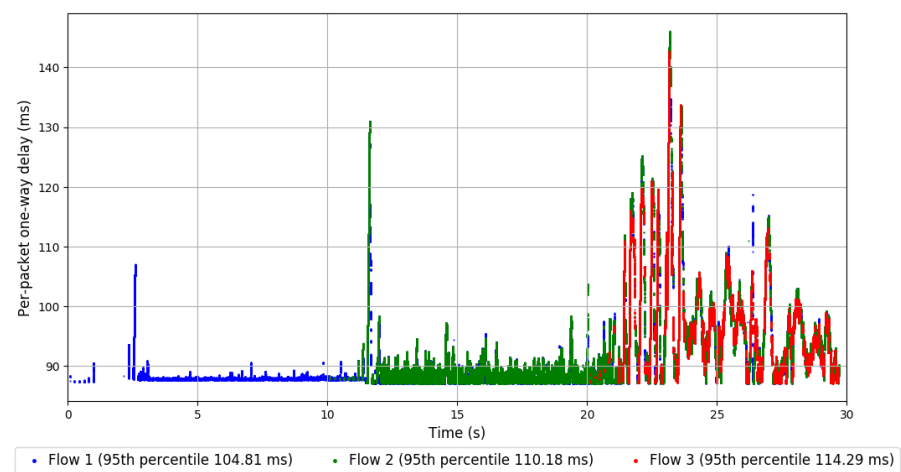
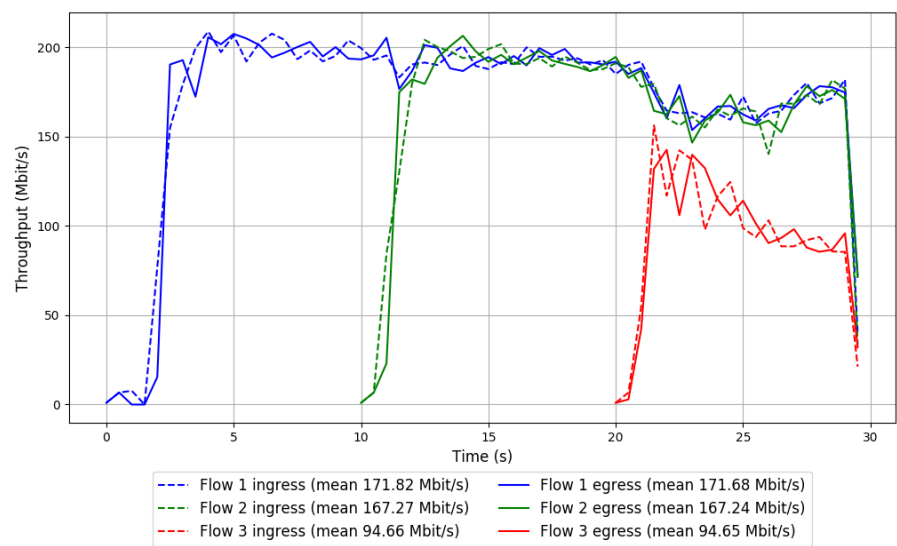
-- Flow 3:

Average throughput: 94.65 Mbit/s

95th percentile per-packet one-way delay: 114.292 ms

Loss rate: 0.00%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2018-01-09 15:45:50

End at: 2018-01-09 15:46:20

Below is generated by plot.py at 2018-01-09 20:02:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 313.01 Mbit/s

95th percentile per-packet one-way delay: 101.993 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 177.18 Mbit/s

95th percentile per-packet one-way delay: 100.373 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 168.79 Mbit/s

95th percentile per-packet one-way delay: 102.878 ms

Loss rate: 0.01%

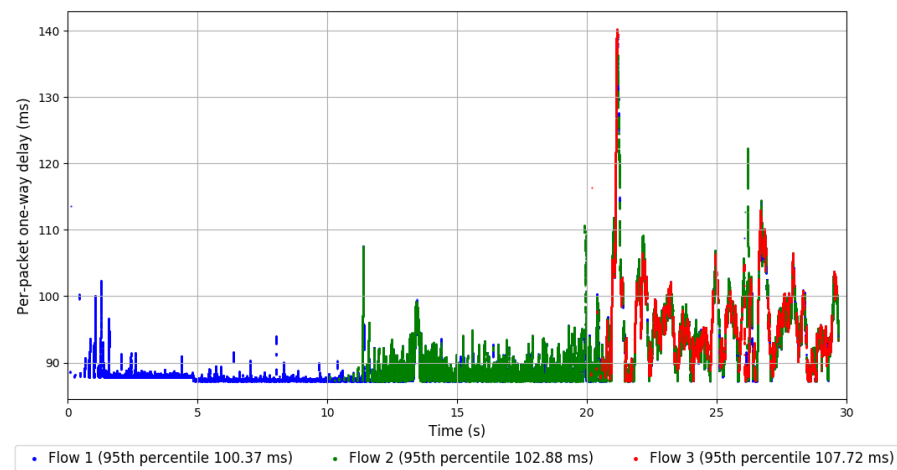
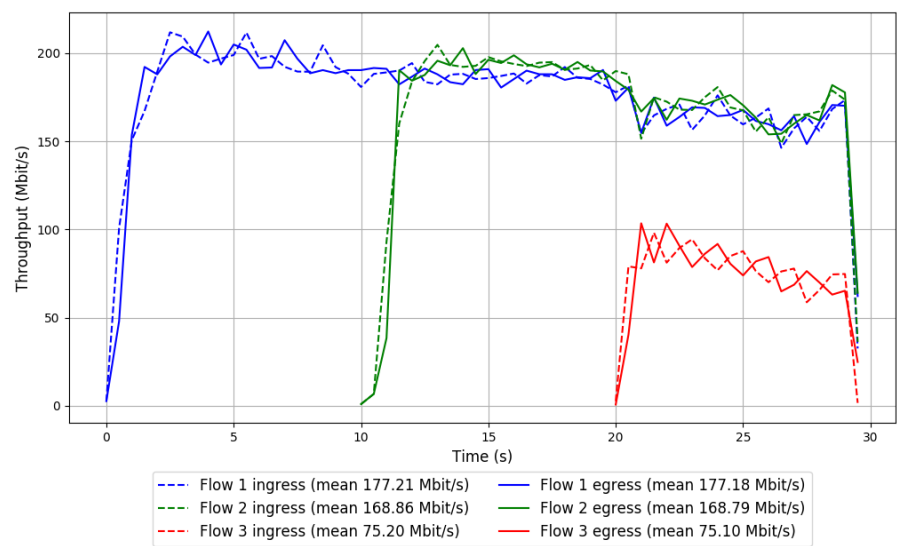
-- Flow 3:

Average throughput: 75.10 Mbit/s

95th percentile per-packet one-way delay: 107.717 ms

Loss rate: 0.11%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2018-01-09 16:00:25

End at: 2018-01-09 16:00:55

Below is generated by plot.py at 2018-01-09 20:02:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 315.90 Mbit/s

95th percentile per-packet one-way delay: 102.277 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 179.44 Mbit/s

95th percentile per-packet one-way delay: 99.831 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 169.62 Mbit/s

95th percentile per-packet one-way delay: 103.848 ms

Loss rate: 0.00%

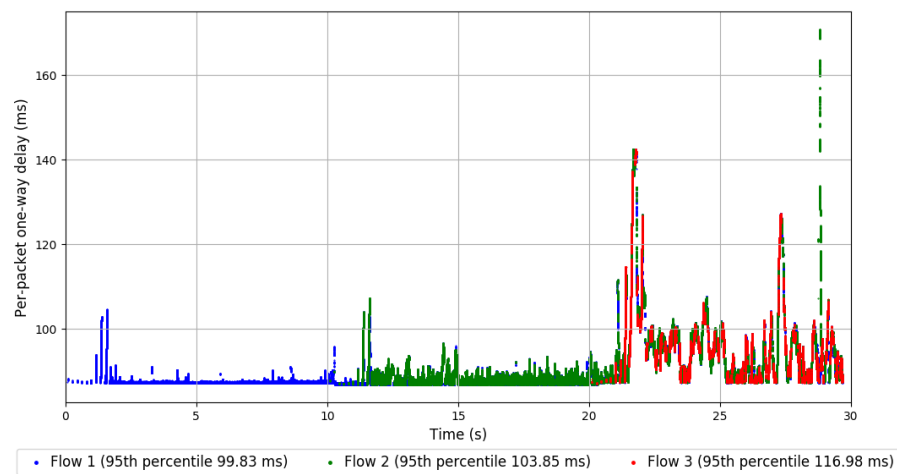
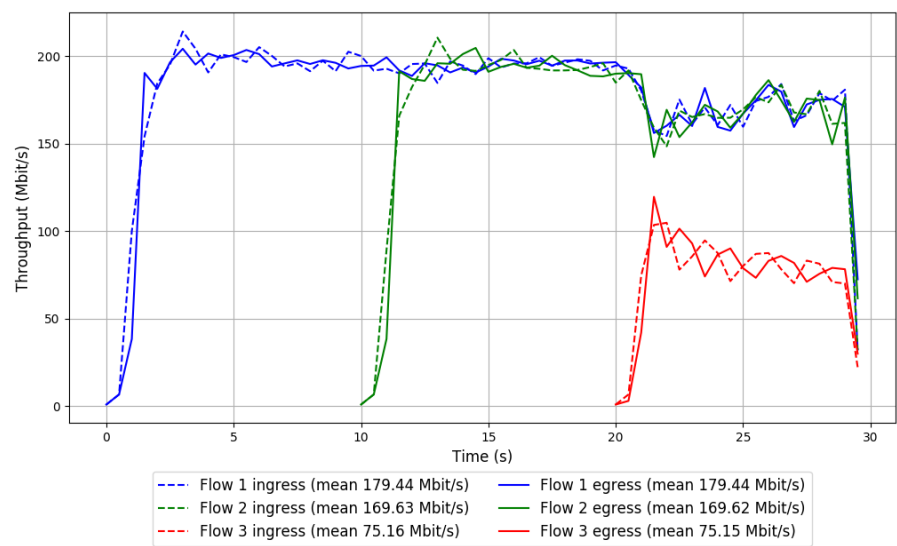
-- Flow 3:

Average throughput: 75.15 Mbit/s

95th percentile per-packet one-way delay: 116.976 ms

Loss rate: 0.00%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2018-01-09 16:15:06

End at: 2018-01-09 16:15:36

Below is generated by plot.py at 2018-01-09 20:02:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 302.19 Mbit/s

95th percentile per-packet one-way delay: 106.316 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 171.63 Mbit/s

95th percentile per-packet one-way delay: 103.994 ms

Loss rate: 0.16%

-- Flow 2:

Average throughput: 167.35 Mbit/s

95th percentile per-packet one-way delay: 107.669 ms

Loss rate: 0.07%

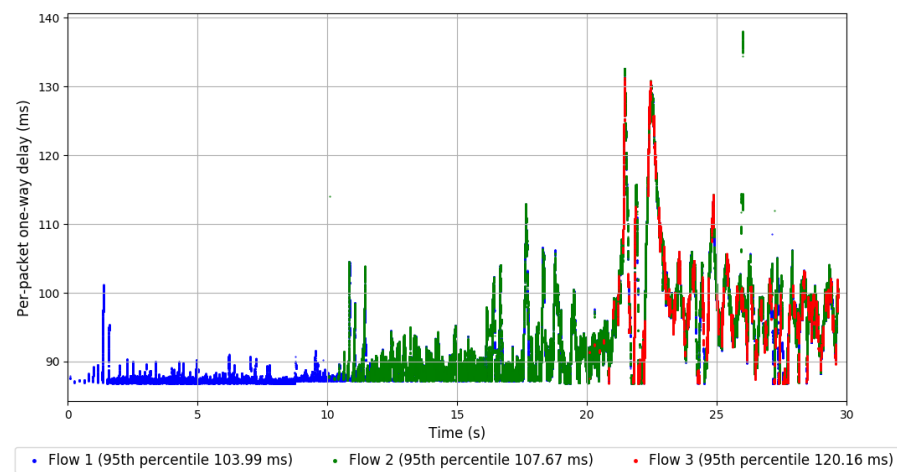
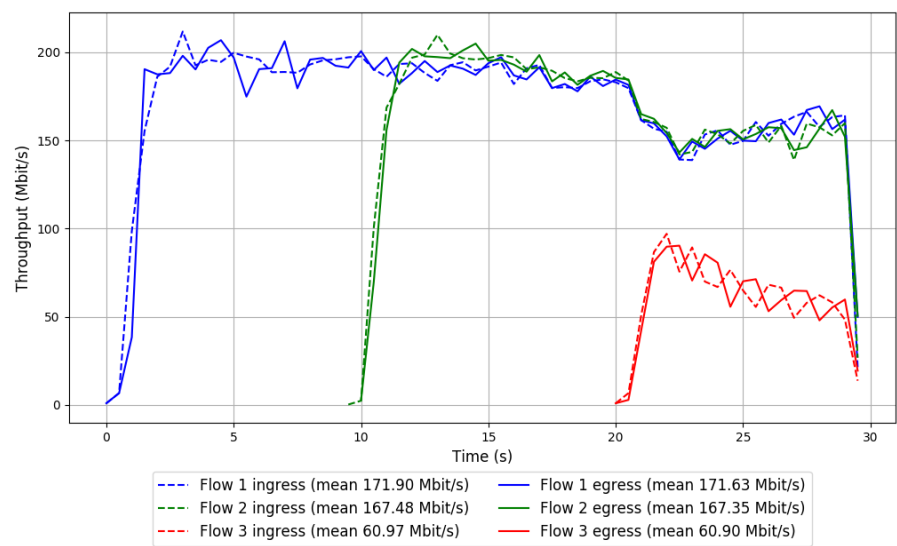
-- Flow 3:

Average throughput: 60.90 Mbit/s

95th percentile per-packet one-way delay: 120.157 ms

Loss rate: 0.00%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2018-01-09 16:29:56

End at: 2018-01-09 16:30:26

Below is generated by plot.py at 2018-01-09 20:02:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 295.44 Mbit/s

95th percentile per-packet one-way delay: 107.464 ms

Loss rate: 0.44%

-- Flow 1:

Average throughput: 168.32 Mbit/s

95th percentile per-packet one-way delay: 105.774 ms

Loss rate: 0.57%

-- Flow 2:

Average throughput: 164.06 Mbit/s

95th percentile per-packet one-way delay: 108.245 ms

Loss rate: 0.33%

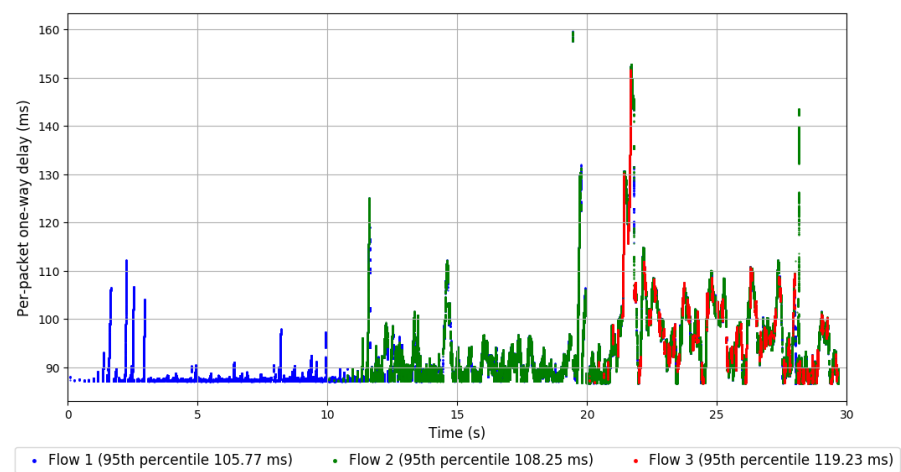
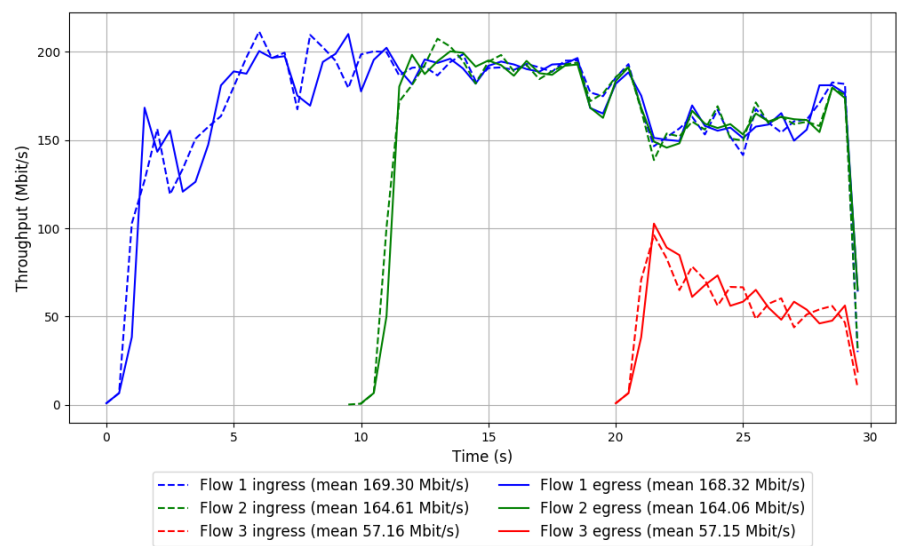
-- Flow 3:

Average throughput: 57.15 Mbit/s

95th percentile per-packet one-way delay: 119.233 ms

Loss rate: 0.00%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2018-01-09 16:44:37

End at: 2018-01-09 16:45:07

Below is generated by plot.py at 2018-01-09 20:02:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 321.69 Mbit/s

95th percentile per-packet one-way delay: 104.167 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 182.96 Mbit/s

95th percentile per-packet one-way delay: 102.612 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 169.06 Mbit/s

95th percentile per-packet one-way delay: 105.929 ms

Loss rate: 0.05%

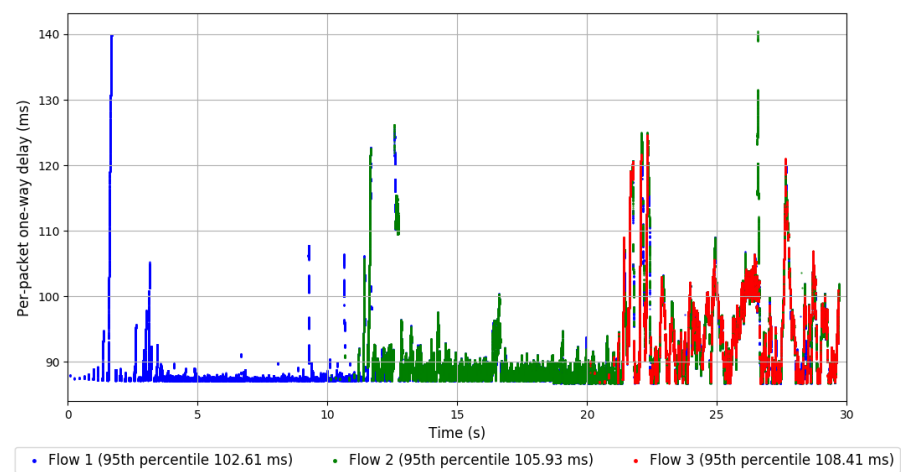
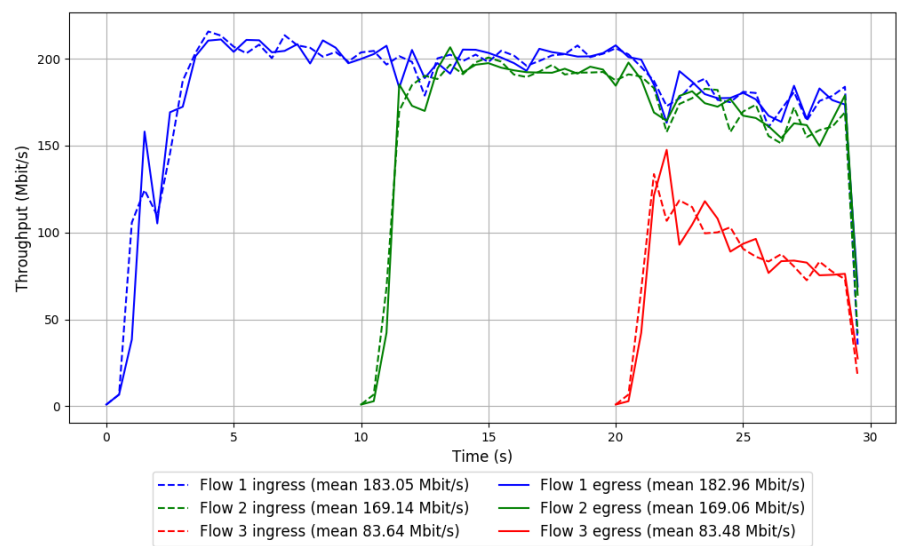
-- Flow 3:

Average throughput: 83.48 Mbit/s

95th percentile per-packet one-way delay: 108.412 ms

Loss rate: 0.23%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2018-01-09 16:59:31

End at: 2018-01-09 17:00:01

Below is generated by plot.py at 2018-01-09 20:02:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 307.72 Mbit/s

95th percentile per-packet one-way delay: 109.703 ms

Loss rate: 0.42%

-- Flow 1:

Average throughput: 169.98 Mbit/s

95th percentile per-packet one-way delay: 106.270 ms

Loss rate: 0.37%

-- Flow 2:

Average throughput: 164.02 Mbit/s

95th percentile per-packet one-way delay: 112.350 ms

Loss rate: 0.54%

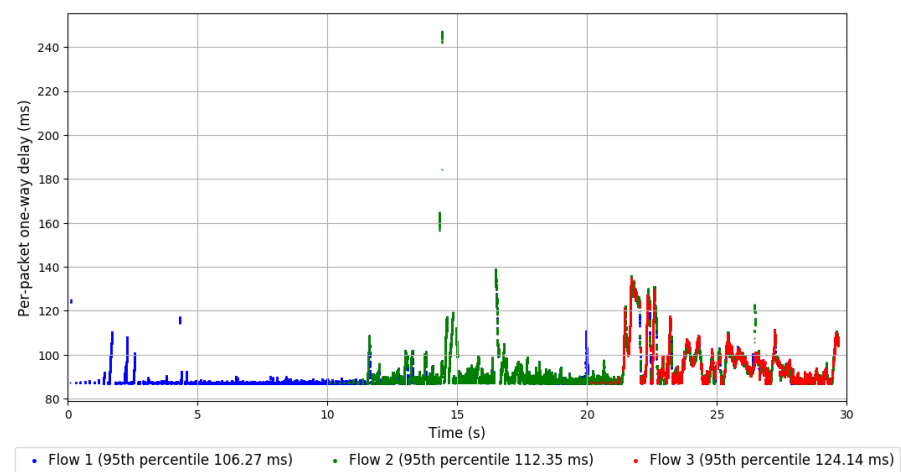
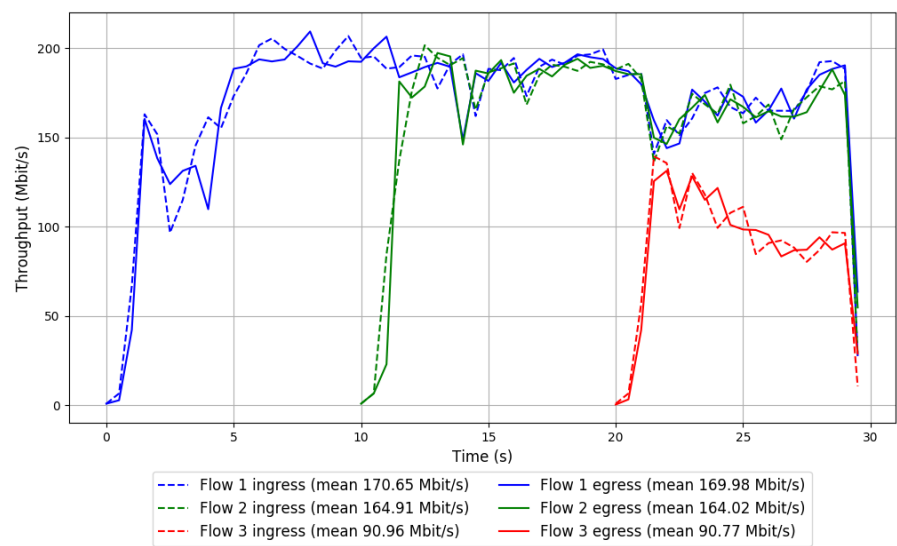
-- Flow 3:

Average throughput: 90.77 Mbit/s

95th percentile per-packet one-way delay: 124.142 ms

Loss rate: 0.23%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2018-01-09 17:14:07

End at: 2018-01-09 17:14:37

Below is generated by plot.py at 2018-01-09 20:02:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 292.58 Mbit/s

95th percentile per-packet one-way delay: 107.348 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 161.01 Mbit/s

95th percentile per-packet one-way delay: 104.447 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 165.73 Mbit/s

95th percentile per-packet one-way delay: 107.886 ms

Loss rate: 0.00%

-- Flow 3:

Average throughput: 67.31 Mbit/s

95th percentile per-packet one-way delay: 129.790 ms

Loss rate: 0.42%

Run 10: Report of Indigo — Data Link

