

Pantheon Report

Generated at 2018-01-02 22:53:52 (UTC).

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

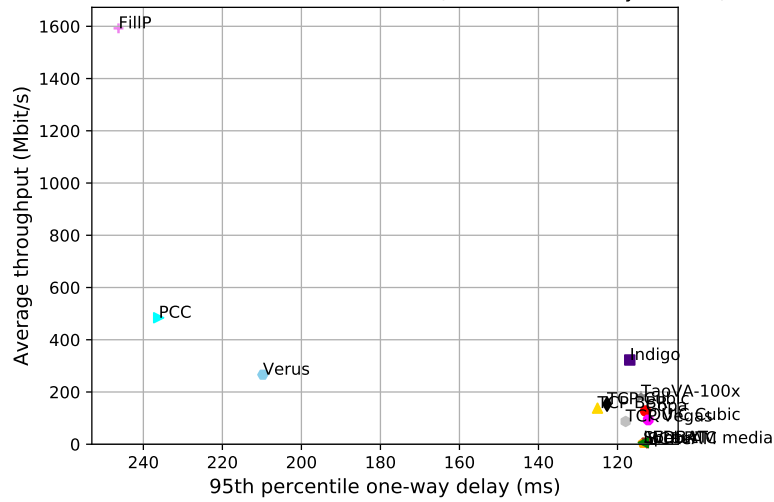
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

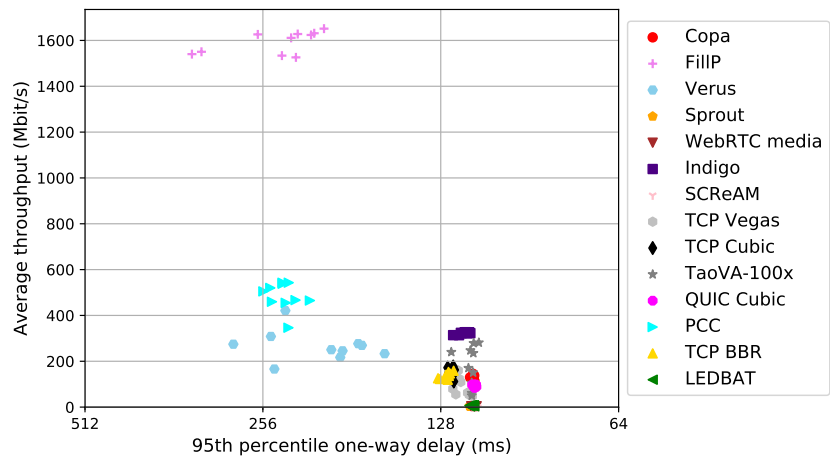
Git summary:

```
branch: master @ 904a5750834816b1e46a2c86405d707788d27c16
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
M datagrump/sender.cc
third_party/fillp @ dcaef6b00654e660f73f7ed679d2eab61ce08639
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-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eaaeb30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/webrtc @ a488197ddd041ace68a42849b2540ad834825f42
```

test from GCE London Ethernet to GCE Tokyo Ethernet, 10 runs of 30s each per scheme
3 flows with 10s interval between flows (mean of all runs by scheme)



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



scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	10	65.40	69.81	81.12	124.44	125.16	125.97	0.04	0.00	0.21
TCP Cubic	10	74.13	80.74	77.75	122.21	122.63	123.33	0.03	0.12	0.05
LEDBAT	10	3.60	2.66	1.85	113.48	113.31	113.42	0.16	0.00	0.02
PCC	10	370.89	151.34	38.68	235.87	235.99	223.75	2.43	2.93	5.35
QUIC Cubic	10	52.73	45.59	30.95	111.36	111.51	111.94	0.00	0.01	0.01
SCReAM	10	0.21	0.22	0.22	111.65	112.20	111.50	0.00	0.00	0.00
WebRTC media	10	2.08	1.28	0.46	111.97	111.57	112.30	0.00	0.00	0.00
Sprout	10	2.34	2.06	1.76	113.48	113.48	113.31	0.10	0.20	0.01
TaoVA-100x	10	127.81	74.07	81.81	112.86	114.68	115.30	0.00	0.01	0.01
TCP Vegas	10	44.15	42.74	44.45	115.36	116.71	117.83	0.13	0.07	0.05
Verus	10	172.68	111.72	61.91	206.10	209.97	232.31	1.44	0.90	3.85
Copa	10	65.65	69.31	60.64	112.77	112.94	112.61	0.01	0.00	0.01
FillP	10	853.00	775.23	676.66	240.35	241.11	253.74	5.44	8.10	13.52
Indigo	10	167.92	163.56	143.88	115.82	117.82	118.54	0.01	0.01	0.01

Run 1: Statistics of TCP BBR

Start at: 2018-01-02 18:06:02

End at: 2018-01-02 18:06:32

Below is generated by plot.py at 2018-01-02 21:41:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 119.59 Mbit/s

95th percentile per-packet one-way delay: 124.550 ms

Loss rate: 0.19%

-- Flow 1:

Average throughput: 57.52 Mbit/s

95th percentile per-packet one-way delay: 123.667 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 51.62 Mbit/s

95th percentile per-packet one-way delay: 125.463 ms

Loss rate: 0.00%

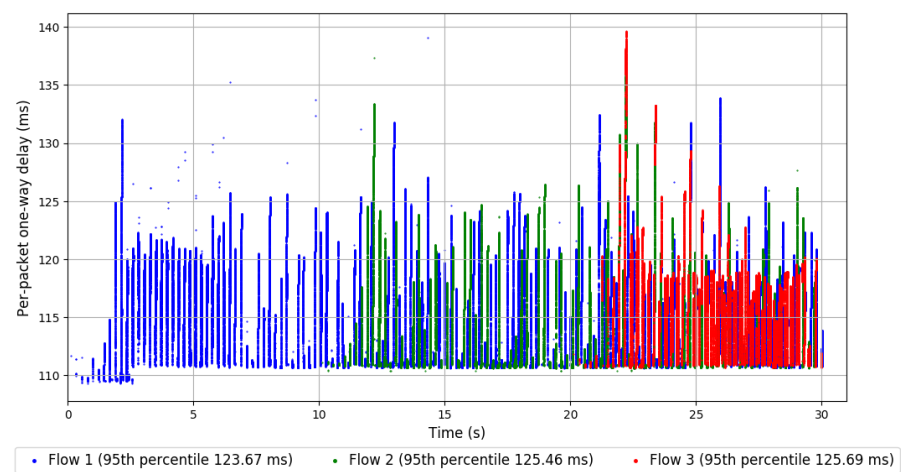
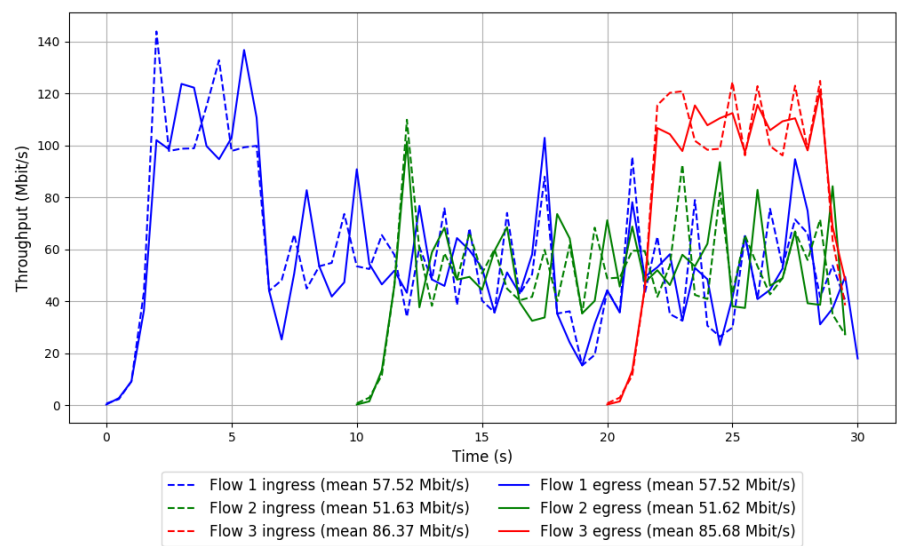
-- Flow 3:

Average throughput: 85.68 Mbit/s

95th percentile per-packet one-way delay: 125.691 ms

Loss rate: 0.81%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-01-02 18:21:25

End at: 2018-01-02 18:21:55

Below is generated by plot.py at 2018-01-02 21:41:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 158.71 Mbit/s

95th percentile per-packet one-way delay: 121.740 ms

Loss rate: 0.11%

-- Flow 1:

Average throughput: 86.72 Mbit/s

95th percentile per-packet one-way delay: 120.049 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 63.89 Mbit/s

95th percentile per-packet one-way delay: 122.727 ms

Loss rate: 0.00%

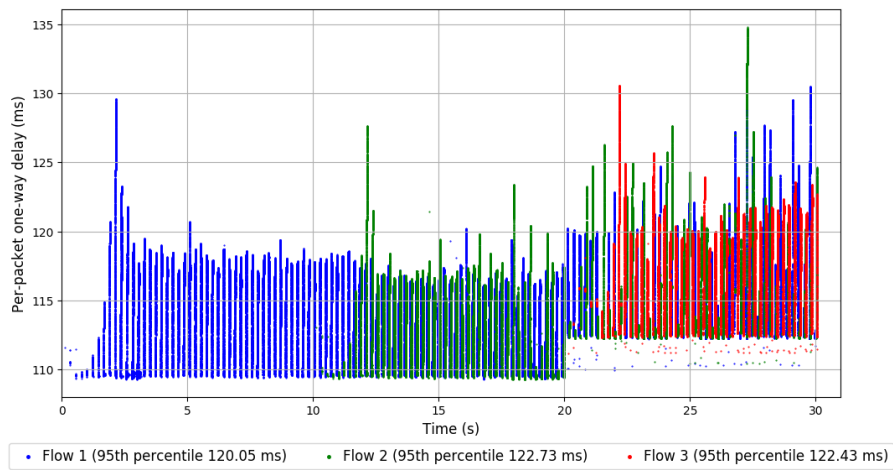
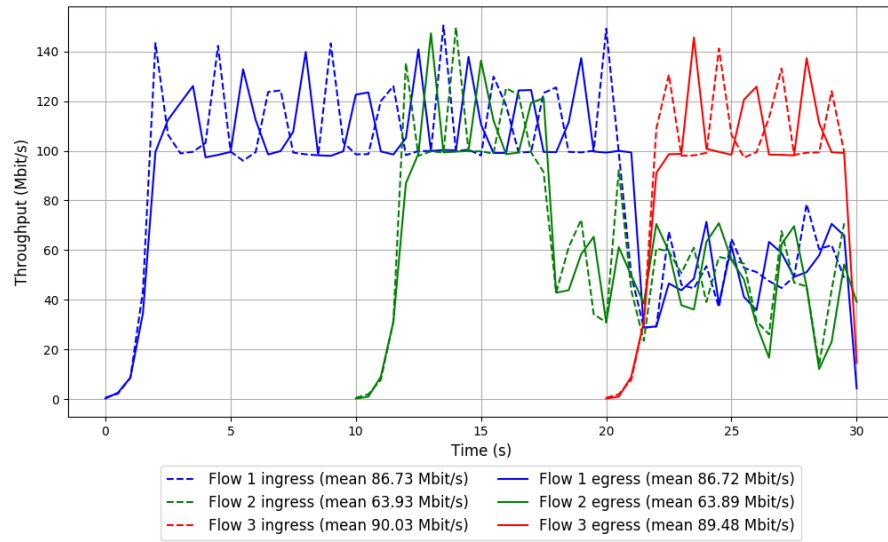
-- Flow 3:

Average throughput: 89.48 Mbit/s

95th percentile per-packet one-way delay: 122.427 ms

Loss rate: 0.58%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-01-02 18:36:55

End at: 2018-01-02 18:37:25

Below is generated by plot.py at 2018-01-02 21:41:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 153.53 Mbit/s

95th percentile per-packet one-way delay: 124.200 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 79.99 Mbit/s

95th percentile per-packet one-way delay: 123.570 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 83.71 Mbit/s

95th percentile per-packet one-way delay: 123.950 ms

Loss rate: 0.00%

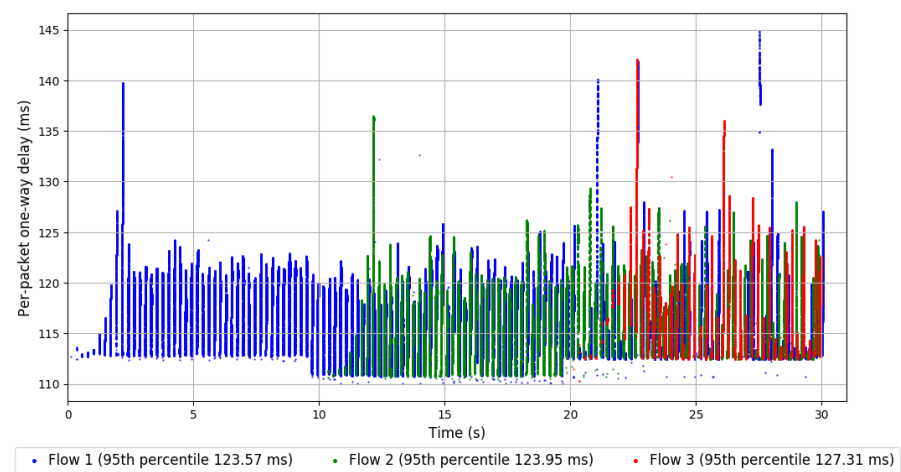
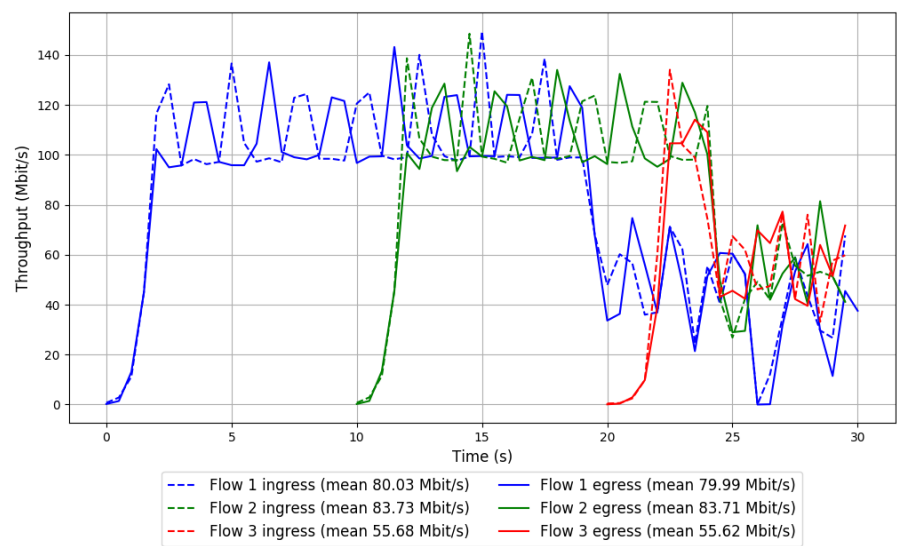
-- Flow 3:

Average throughput: 55.62 Mbit/s

95th percentile per-packet one-way delay: 127.311 ms

Loss rate: 0.01%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-01-02 18:52:26

End at: 2018-01-02 18:52:56

Below is generated by plot.py at 2018-01-02 21:41:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 136.12 Mbit/s

95th percentile per-packet one-way delay: 124.040 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 63.50 Mbit/s

95th percentile per-packet one-way delay: 123.709 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 73.67 Mbit/s

95th percentile per-packet one-way delay: 123.571 ms

Loss rate: 0.00%

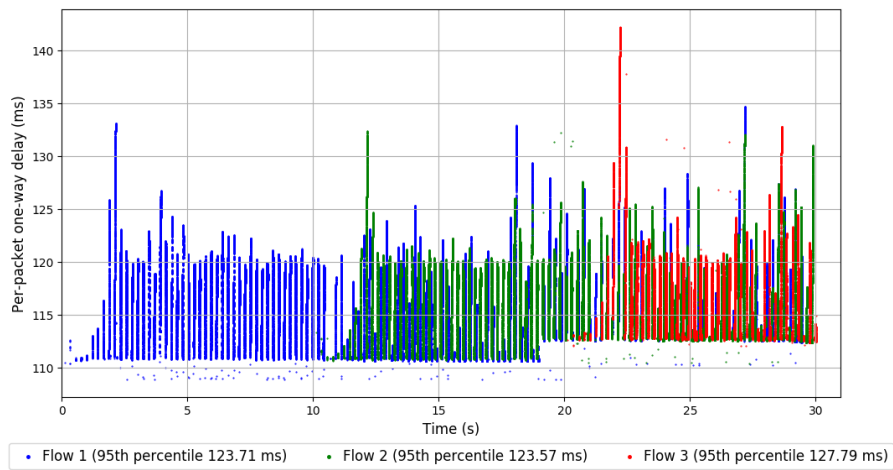
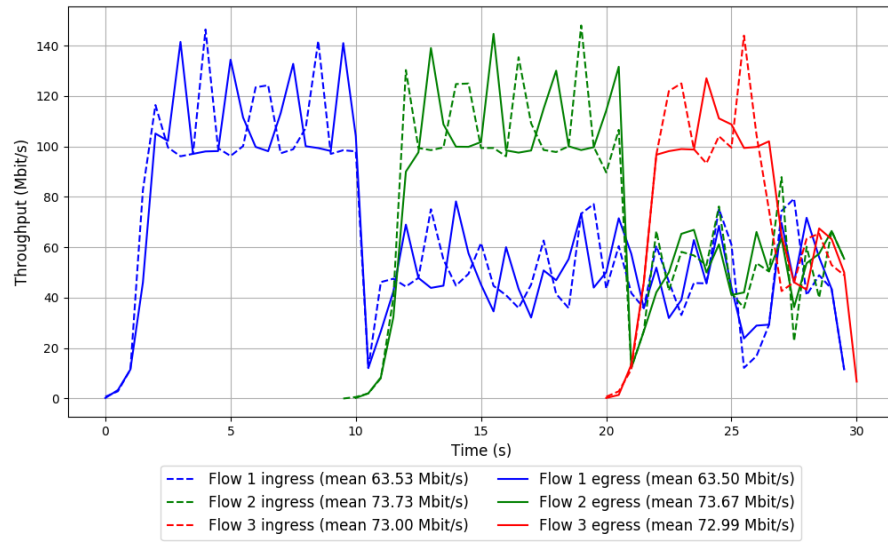
-- Flow 3:

Average throughput: 72.99 Mbit/s

95th percentile per-packet one-way delay: 127.793 ms

Loss rate: 0.00%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-01-02 19:08:03

End at: 2018-01-02 19:08:33

Below is generated by plot.py at 2018-01-02 21:41:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 142.77 Mbit/s

95th percentile per-packet one-way delay: 124.210 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 54.82 Mbit/s

95th percentile per-packet one-way delay: 126.044 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 90.38 Mbit/s

95th percentile per-packet one-way delay: 122.979 ms

Loss rate: 0.00%

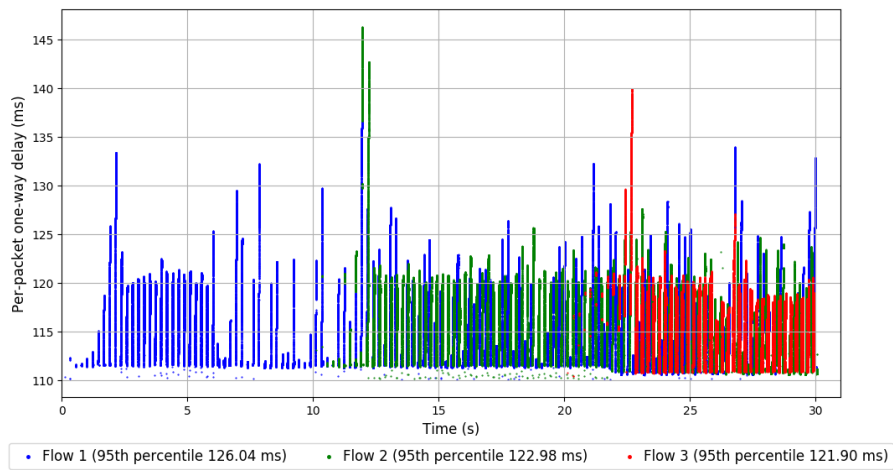
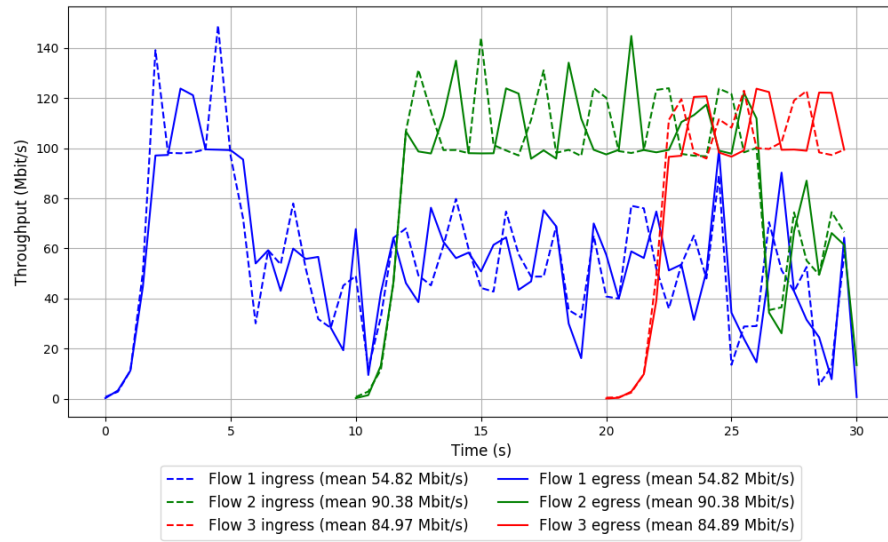
-- Flow 3:

Average throughput: 84.89 Mbit/s

95th percentile per-packet one-way delay: 121.899 ms

Loss rate: 0.01%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-01-02 19:23:30

End at: 2018-01-02 19:24:00

Below is generated by plot.py at 2018-01-02 21:41:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 147.29 Mbit/s

95th percentile per-packet one-way delay: 123.552 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 66.75 Mbit/s

95th percentile per-packet one-way delay: 123.874 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 76.85 Mbit/s

95th percentile per-packet one-way delay: 122.354 ms

Loss rate: 0.00%

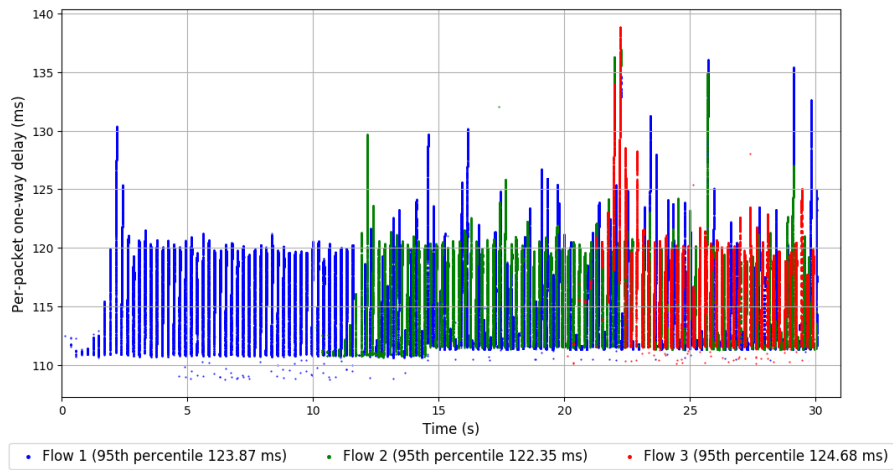
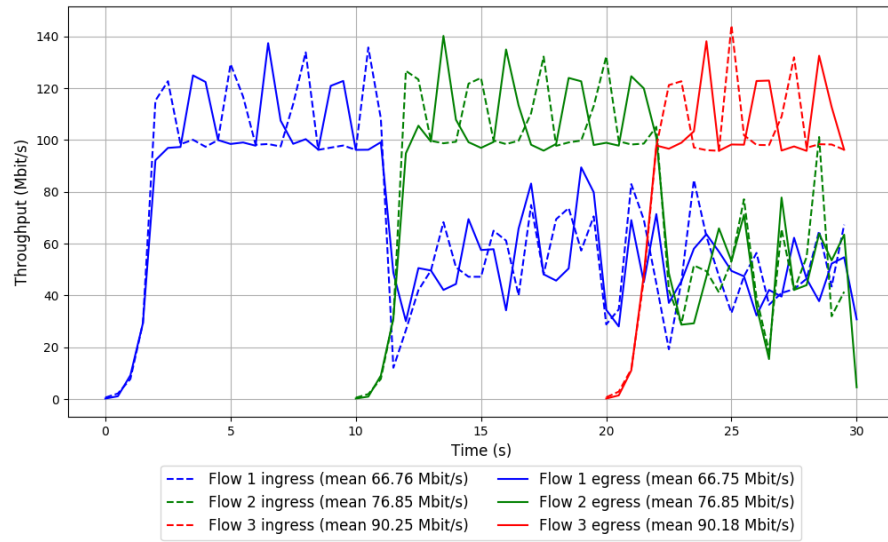
-- Flow 3:

Average throughput: 90.18 Mbit/s

95th percentile per-packet one-way delay: 124.681 ms

Loss rate: 0.00%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-01-02 19:39:05

End at: 2018-01-02 19:39:35

Below is generated by plot.py at 2018-01-02 21:41:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 135.17 Mbit/s

95th percentile per-packet one-way delay: 125.295 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 68.31 Mbit/s

95th percentile per-packet one-way delay: 124.023 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 69.87 Mbit/s

95th percentile per-packet one-way delay: 122.407 ms

Loss rate: 0.00%

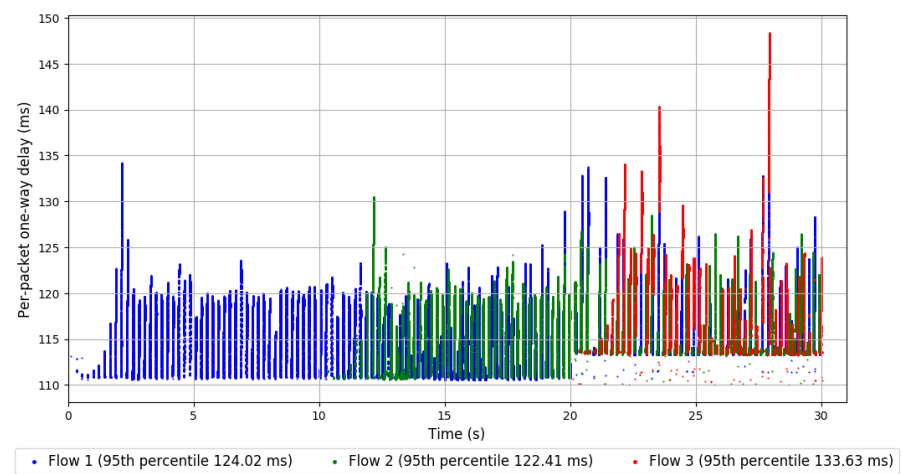
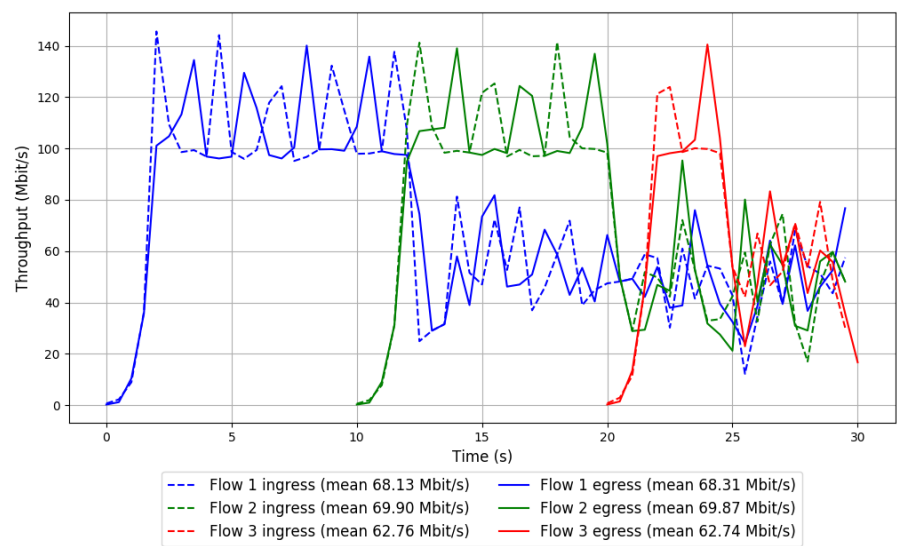
-- Flow 3:

Average throughput: 62.74 Mbit/s

95th percentile per-packet one-way delay: 133.629 ms

Loss rate: 0.01%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-01-02 19:54:18

End at: 2018-01-02 19:54:48

Below is generated by plot.py at 2018-01-02 21:41:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 125.97 Mbit/s

95th percentile per-packet one-way delay: 129.359 ms

Loss rate: 0.16%

-- Flow 1:

Average throughput: 50.12 Mbit/s

95th percentile per-packet one-way delay: 126.789 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 70.22 Mbit/s

95th percentile per-packet one-way delay: 133.744 ms

Loss rate: 0.00%

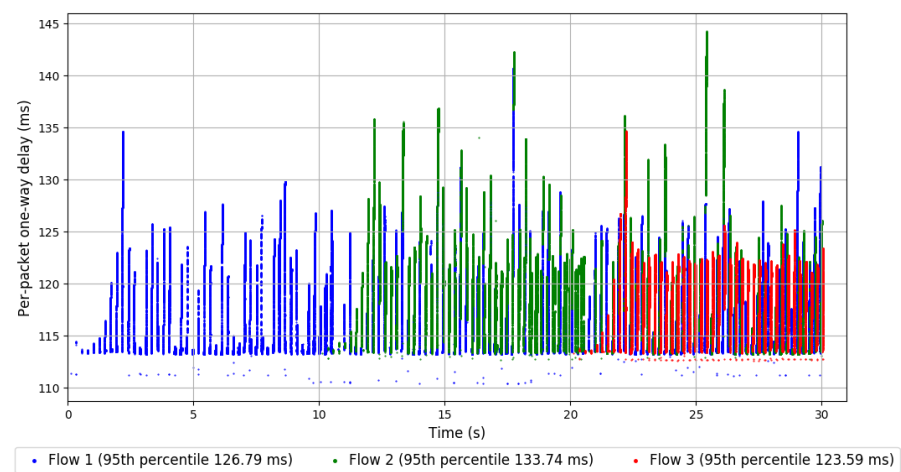
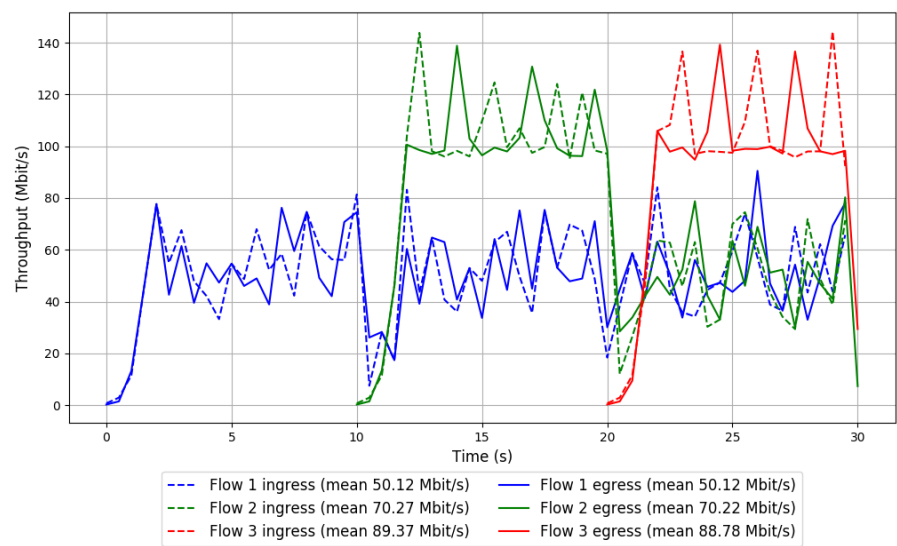
-- Flow 3:

Average throughput: 88.78 Mbit/s

95th percentile per-packet one-way delay: 123.595 ms

Loss rate: 0.68%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-01-02 20:09:35

End at: 2018-01-02 20:10:05

Below is generated by plot.py at 2018-01-02 21:43:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 122.70 Mbit/s

95th percentile per-packet one-way delay: 128.350 ms

Loss rate: 0.18%

-- Flow 1:

Average throughput: 61.34 Mbit/s

95th percentile per-packet one-way delay: 125.805 ms

Loss rate: 0.36%

-- Flow 2:

Average throughput: 47.66 Mbit/s

95th percentile per-packet one-way delay: 130.233 ms

Loss rate: 0.00%

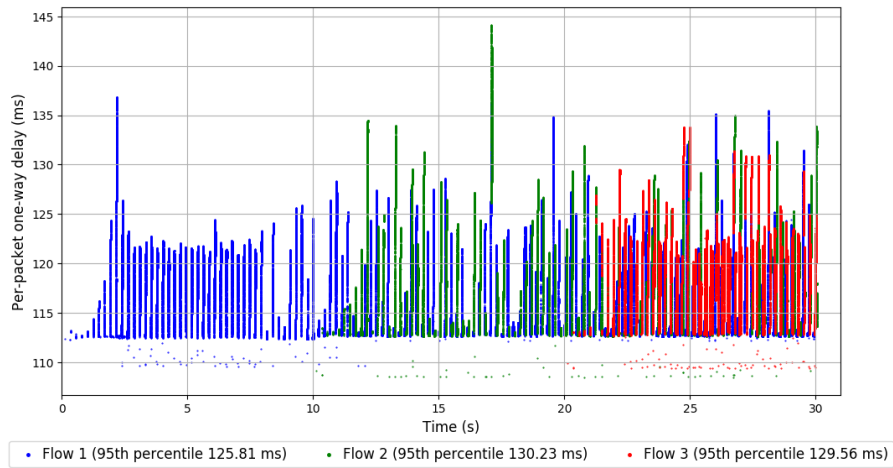
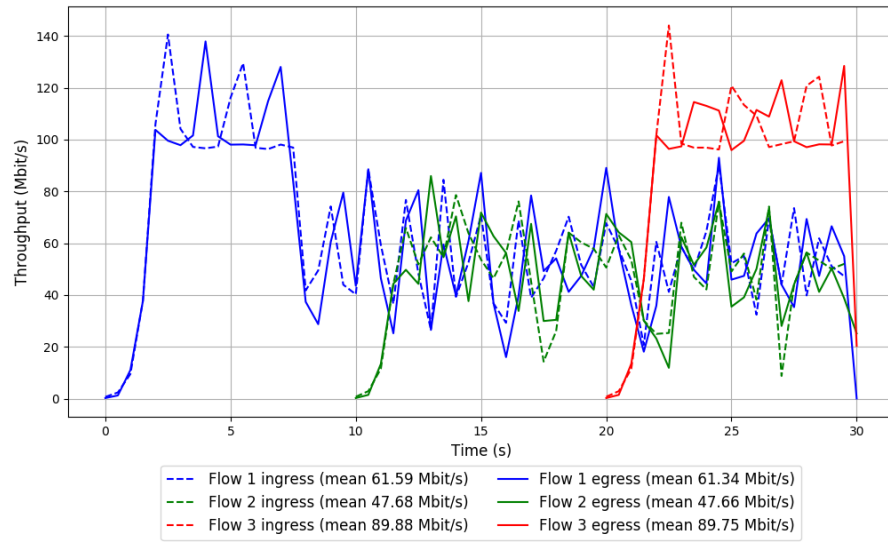
-- Flow 3:

Average throughput: 89.75 Mbit/s

95th percentile per-packet one-way delay: 129.556 ms

Loss rate: 0.00%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-01-02 20:25:01

End at: 2018-01-02 20:25:31

Below is generated by plot.py at 2018-01-02 21:43:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 141.45 Mbit/s

95th percentile per-packet one-way delay: 125.363 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 64.96 Mbit/s

95th percentile per-packet one-way delay: 126.866 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 70.26 Mbit/s

95th percentile per-packet one-way delay: 124.202 ms

Loss rate: 0.00%

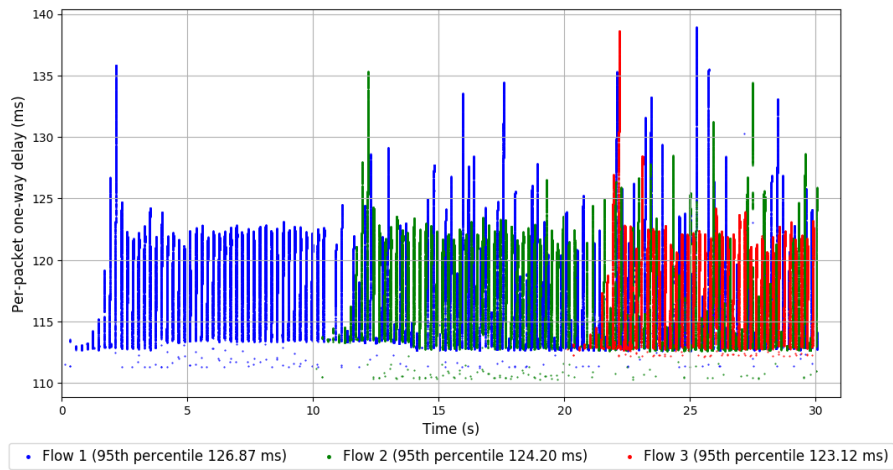
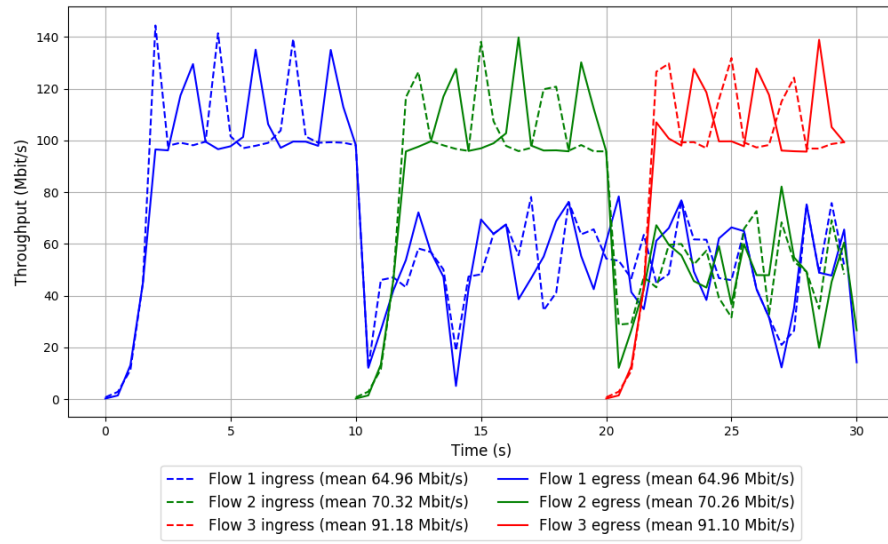
-- Flow 3:

Average throughput: 91.10 Mbit/s

95th percentile per-packet one-way delay: 123.116 ms

Loss rate: 0.00%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-01-02 17:57:20

End at: 2018-01-02 17:57:50

Below is generated by plot.py at 2018-01-02 21:43:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 149.48 Mbit/s

95th percentile per-packet one-way delay: 124.169 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 66.89 Mbit/s

95th percentile per-packet one-way delay: 124.610 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 86.09 Mbit/s

95th percentile per-packet one-way delay: 124.045 ms

Loss rate: 0.00%

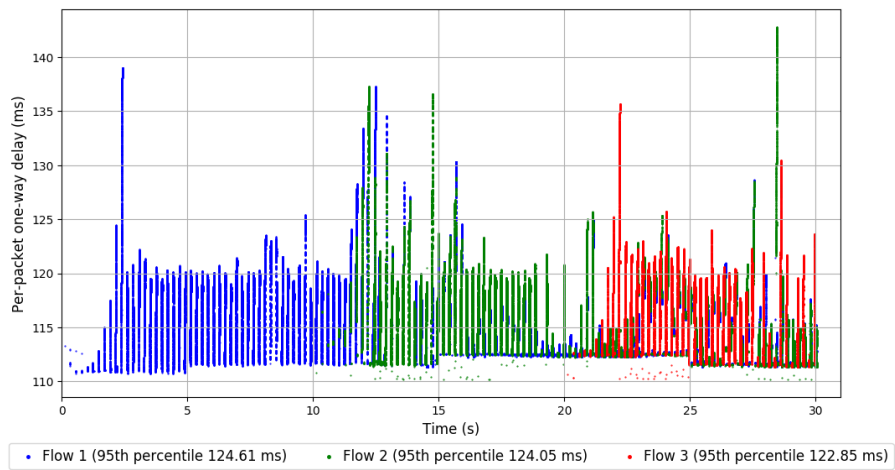
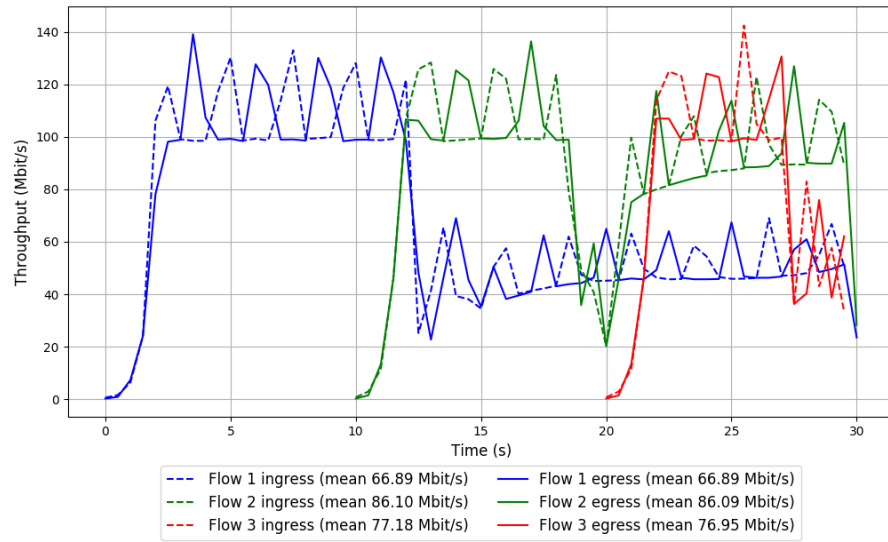
-- Flow 3:

Average throughput: 76.95 Mbit/s

95th percentile per-packet one-way delay: 122.851 ms

Loss rate: 0.16%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-01-02 18:12:42

End at: 2018-01-02 18:13:12

Below is generated by plot.py at 2018-01-02 21:44:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 161.95 Mbit/s

95th percentile per-packet one-way delay: 121.311 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 72.31 Mbit/s

95th percentile per-packet one-way delay: 121.407 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 92.35 Mbit/s

95th percentile per-packet one-way delay: 120.615 ms

Loss rate: 0.00%

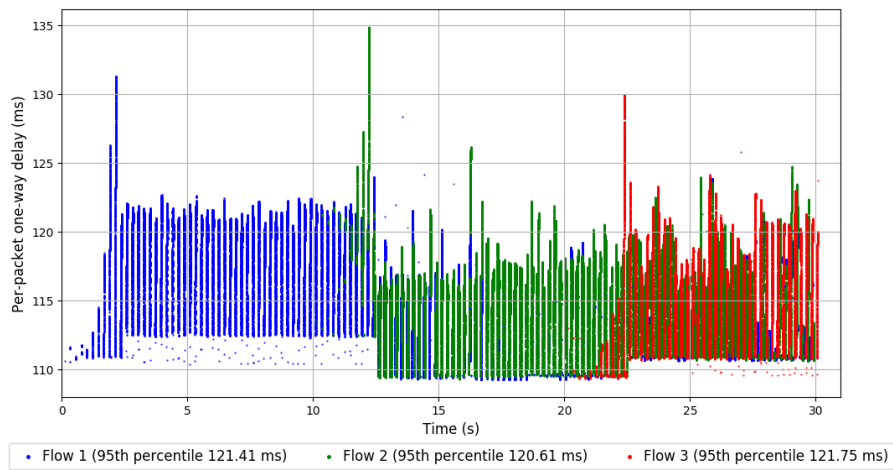
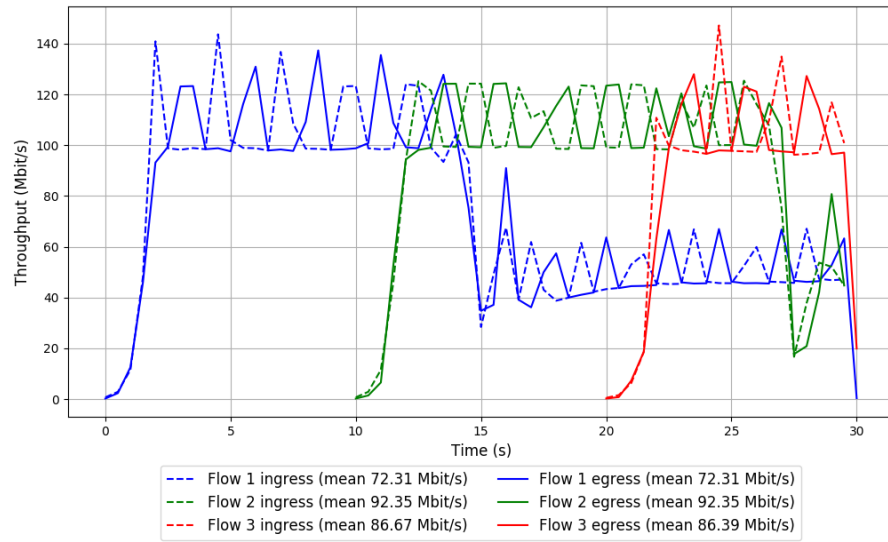
-- Flow 3:

Average throughput: 86.39 Mbit/s

95th percentile per-packet one-way delay: 121.748 ms

Loss rate: 0.25%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-01-02 18:28:26

End at: 2018-01-02 18:28:56

Below is generated by plot.py at 2018-01-02 21:44:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 111.78 Mbit/s

95th percentile per-packet one-way delay: 121.656 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 52.81 Mbit/s

95th percentile per-packet one-way delay: 115.943 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 53.13 Mbit/s

95th percentile per-packet one-way delay: 121.548 ms

Loss rate: 0.00%

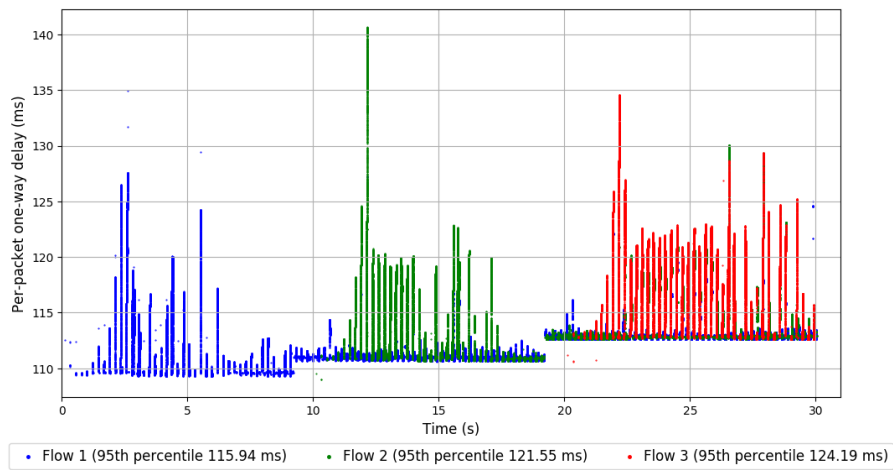
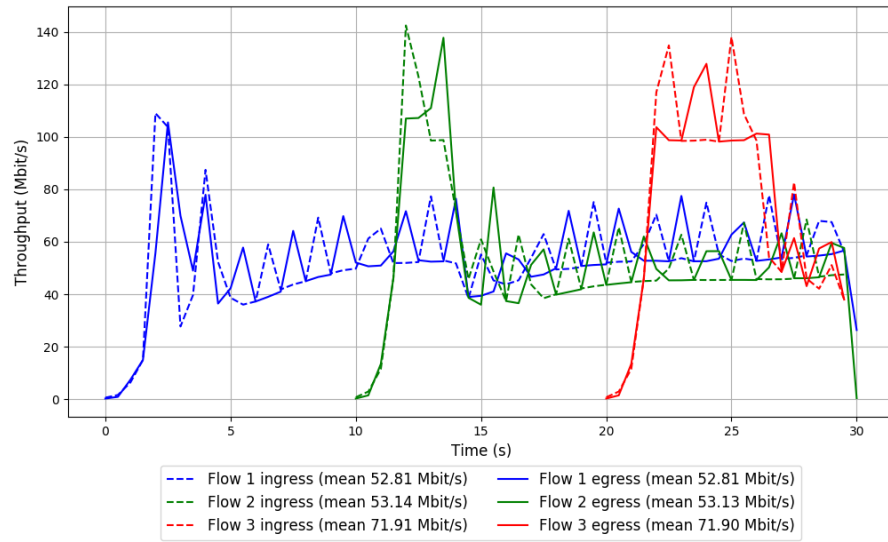
-- Flow 3:

Average throughput: 71.90 Mbit/s

95th percentile per-packet one-way delay: 124.190 ms

Loss rate: 0.00%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-01-02 18:43:50

End at: 2018-01-02 18:44:20

Below is generated by plot.py at 2018-01-02 21:44:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 139.87 Mbit/s

95th percentile per-packet one-way delay: 122.009 ms

Loss rate: 0.25%

-- Flow 1:

Average throughput: 74.45 Mbit/s

95th percentile per-packet one-way delay: 122.846 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 55.14 Mbit/s

95th percentile per-packet one-way delay: 121.476 ms

Loss rate: 0.95%

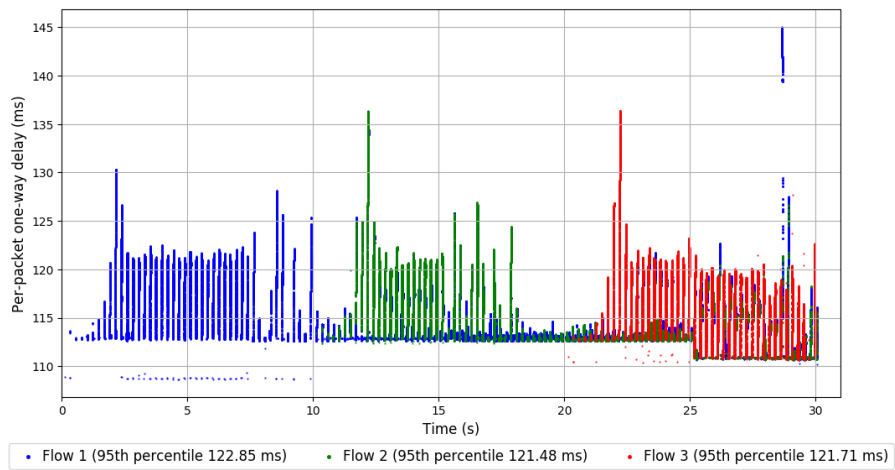
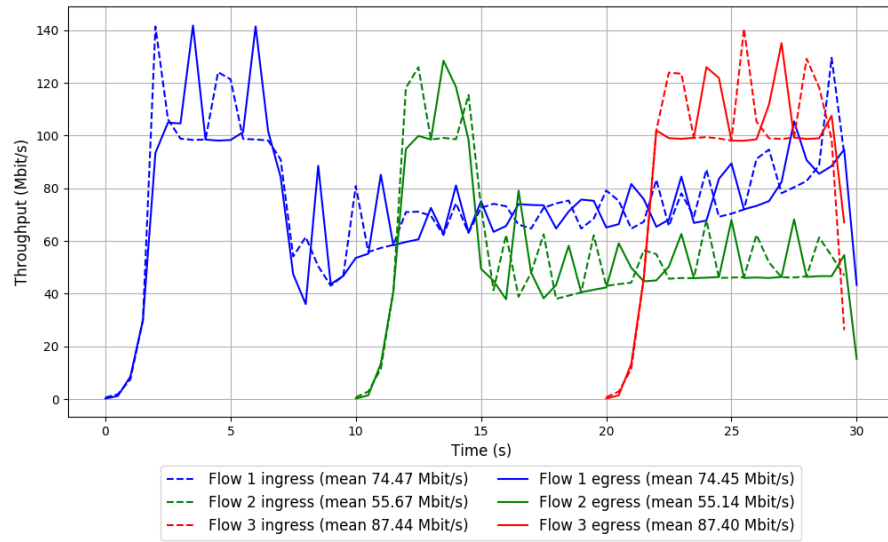
-- Flow 3:

Average throughput: 87.40 Mbit/s

95th percentile per-packet one-way delay: 121.714 ms

Loss rate: 0.00%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-01-02 18:59:19

End at: 2018-01-02 18:59:49

Below is generated by plot.py at 2018-01-02 21:44:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 163.83 Mbit/s

95th percentile per-packet one-way delay: 121.477 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 100.69 Mbit/s

95th percentile per-packet one-way delay: 120.760 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 66.19 Mbit/s

95th percentile per-packet one-way delay: 125.519 ms

Loss rate: 0.00%

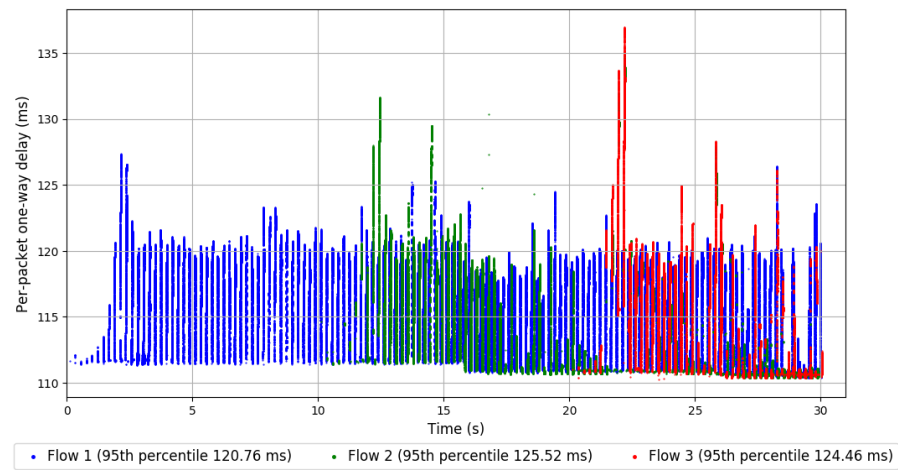
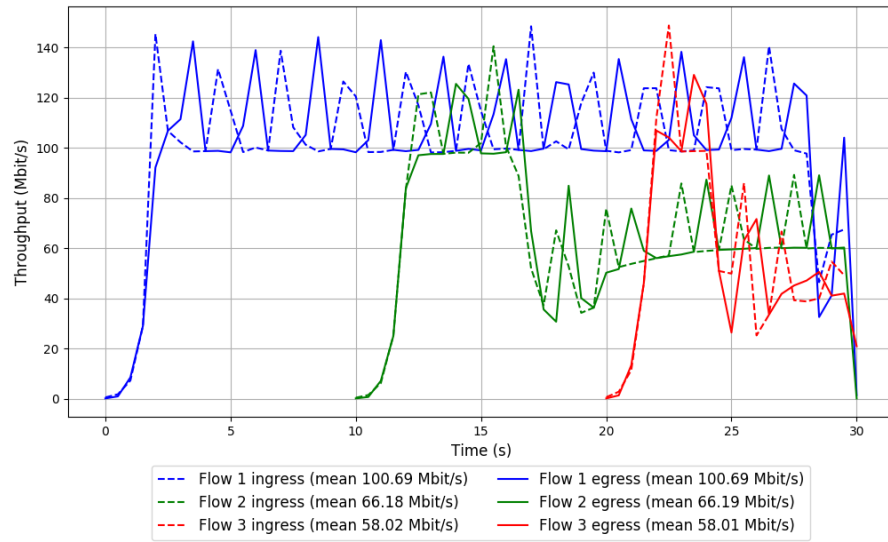
-- Flow 3:

Average throughput: 58.01 Mbit/s

95th percentile per-packet one-way delay: 124.456 ms

Loss rate: 0.01%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-01-02 19:14:52

End at: 2018-01-02 19:15:22

Below is generated by plot.py at 2018-01-02 21:45:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 177.09 Mbit/s

95th percentile per-packet one-way delay: 121.927 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 87.54 Mbit/s

95th percentile per-packet one-way delay: 121.461 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 96.57 Mbit/s

95th percentile per-packet one-way delay: 121.713 ms

Loss rate: 0.15%

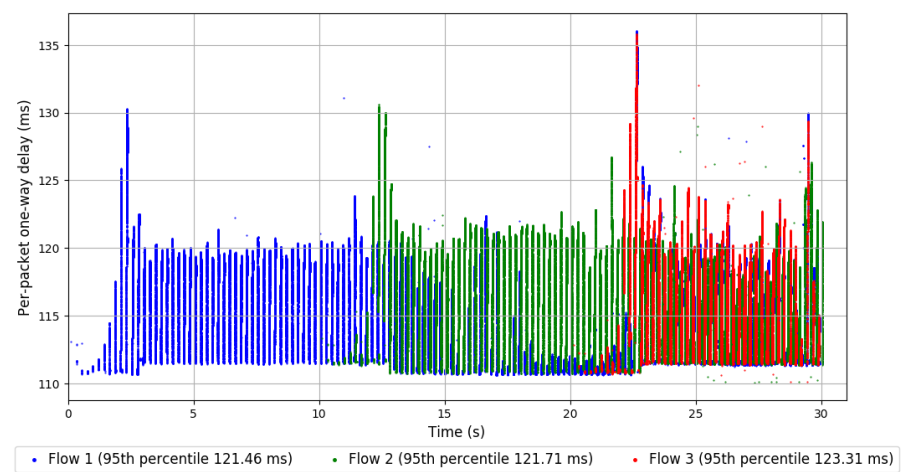
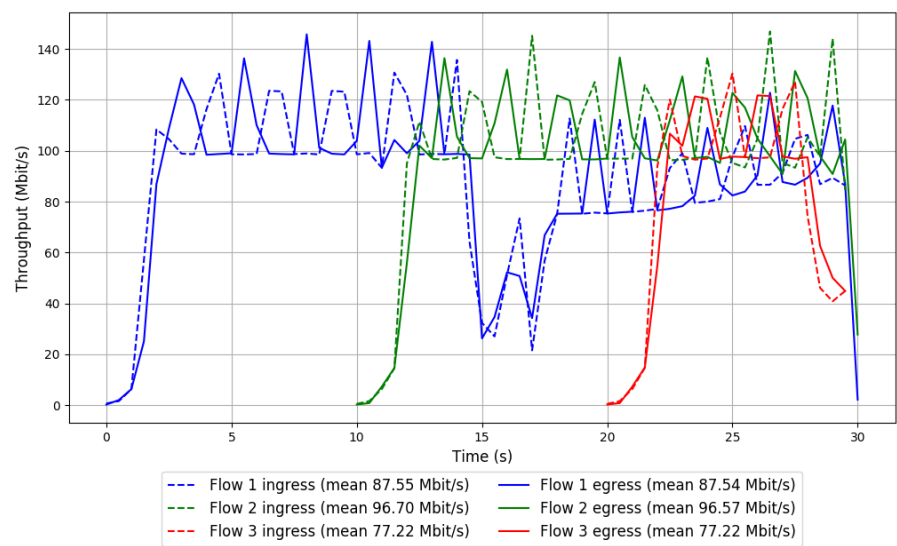
-- Flow 3:

Average throughput: 77.22 Mbit/s

95th percentile per-packet one-way delay: 123.315 ms

Loss rate: 0.00%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-01-02 19:30:28

End at: 2018-01-02 19:30:58

Below is generated by plot.py at 2018-01-02 21:45:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 149.98 Mbit/s

95th percentile per-packet one-way delay: 123.884 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 55.54 Mbit/s

95th percentile per-packet one-way delay: 124.793 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 97.38 Mbit/s

95th percentile per-packet one-way delay: 123.438 ms

Loss rate: 0.00%

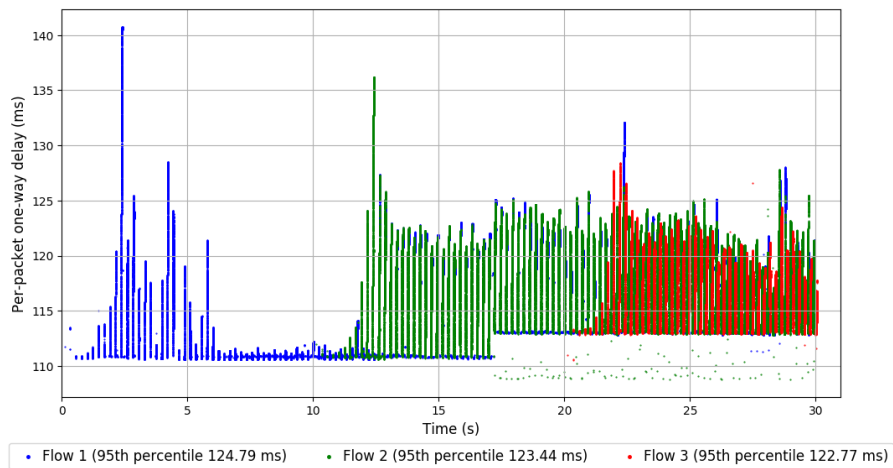
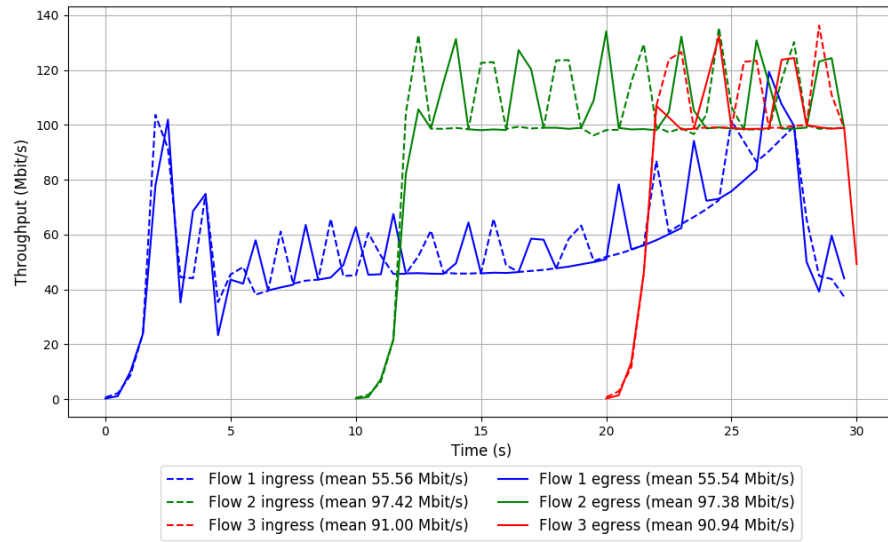
-- Flow 3:

Average throughput: 90.94 Mbit/s

95th percentile per-packet one-way delay: 122.772 ms

Loss rate: 0.00%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-01-02 19:45:42

End at: 2018-01-02 19:46:12

Below is generated by plot.py at 2018-01-02 21:45:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 139.21 Mbit/s

95th percentile per-packet one-way delay: 123.061 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 52.46 Mbit/s

95th percentile per-packet one-way delay: 123.399 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 97.40 Mbit/s

95th percentile per-packet one-way delay: 122.543 ms

Loss rate: 0.12%

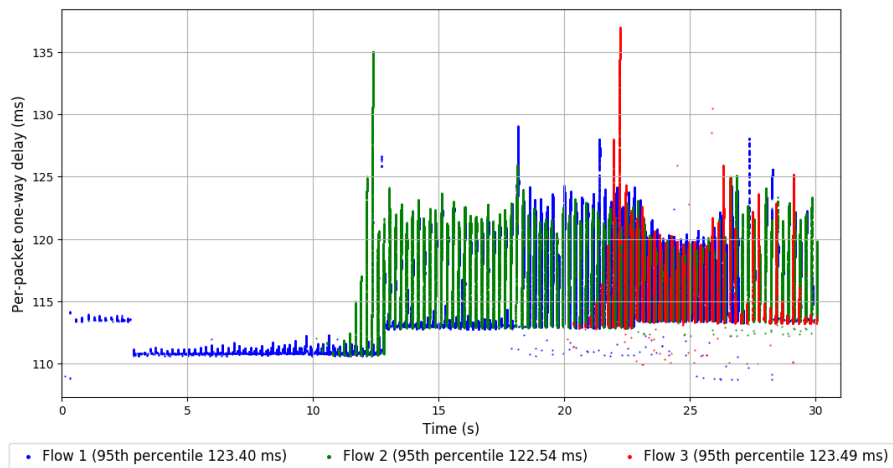
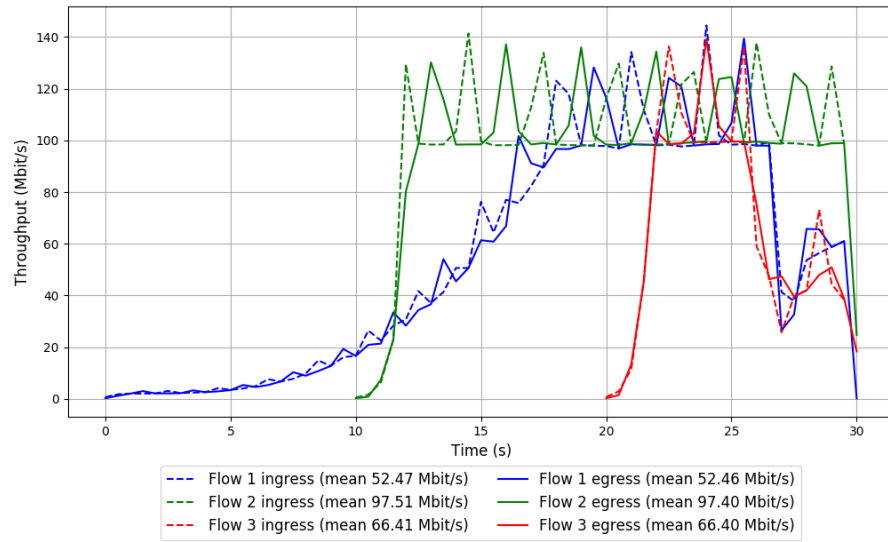
-- Flow 3:

Average throughput: 66.40 Mbit/s

95th percentile per-packet one-way delay: 123.493 ms

Loss rate: 0.00%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-01-02 20:01:03

End at: 2018-01-02 20:01:33

Below is generated by plot.py at 2018-01-02 21:46:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 172.17 Mbit/s

95th percentile per-packet one-way delay: 124.581 ms

Loss rate: 0.19%

-- Flow 1:

Average throughput: 100.04 Mbit/s

95th percentile per-packet one-way delay: 124.935 ms

Loss rate: 0.30%

-- Flow 2:

Average throughput: 63.12 Mbit/s

95th percentile per-packet one-way delay: 123.132 ms

Loss rate: 0.00%

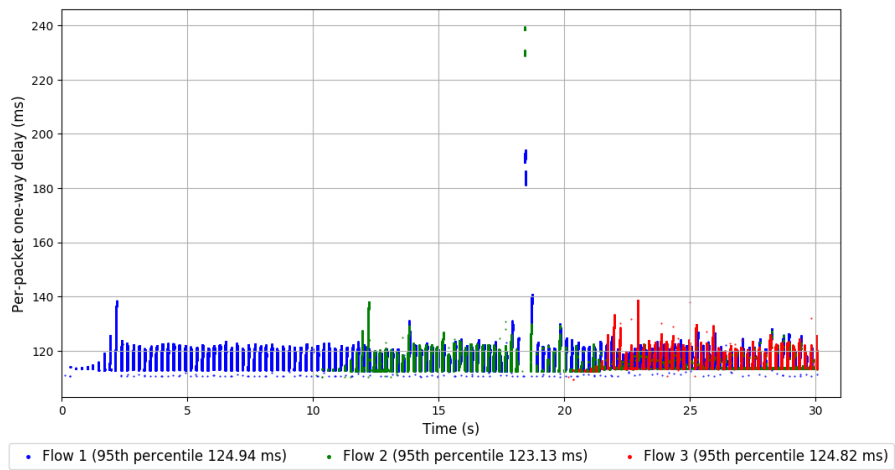
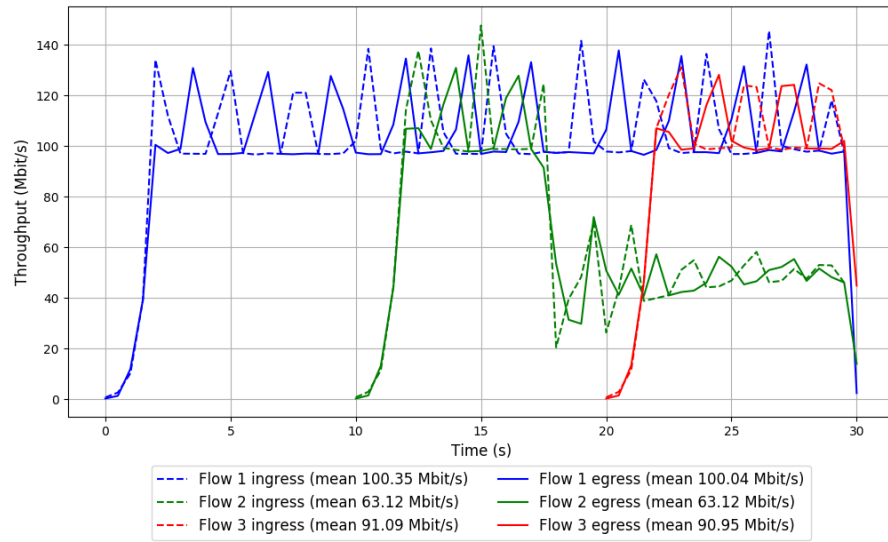
-- Flow 3:

Average throughput: 90.95 Mbit/s

95th percentile per-packet one-way delay: 124.819 ms

Loss rate: 0.05%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-01-02 20:16:22

End at: 2018-01-02 20:16:52

Below is generated by plot.py at 2018-01-02 21:46:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 168.19 Mbit/s

95th percentile per-packet one-way delay: 122.350 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 78.56 Mbit/s

95th percentile per-packet one-way delay: 121.904 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 100.00 Mbit/s

95th percentile per-packet one-way delay: 122.254 ms

Loss rate: 0.00%

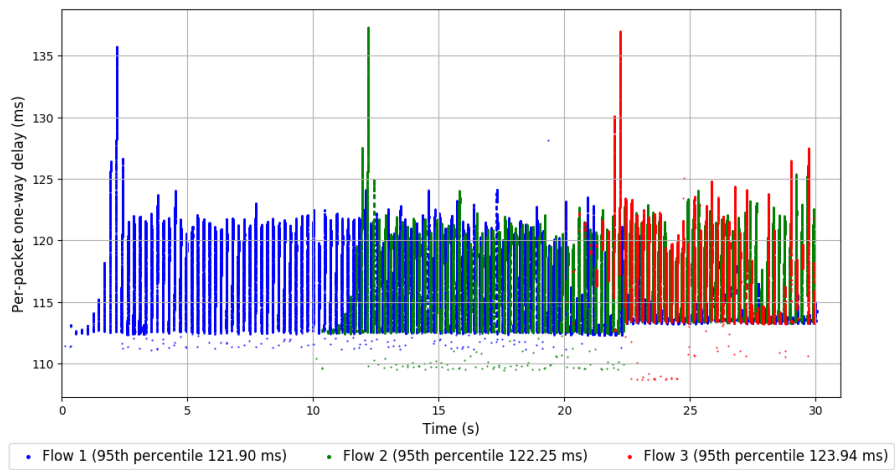
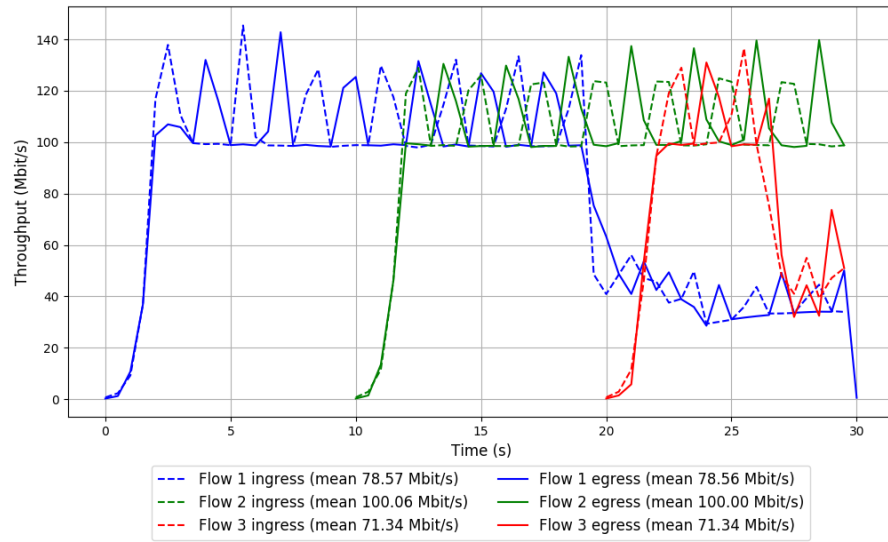
-- Flow 3:

Average throughput: 71.34 Mbit/s

95th percentile per-packet one-way delay: 123.942 ms

Loss rate: 0.00%

Run 10: Report of TCP Cubic — Data Link

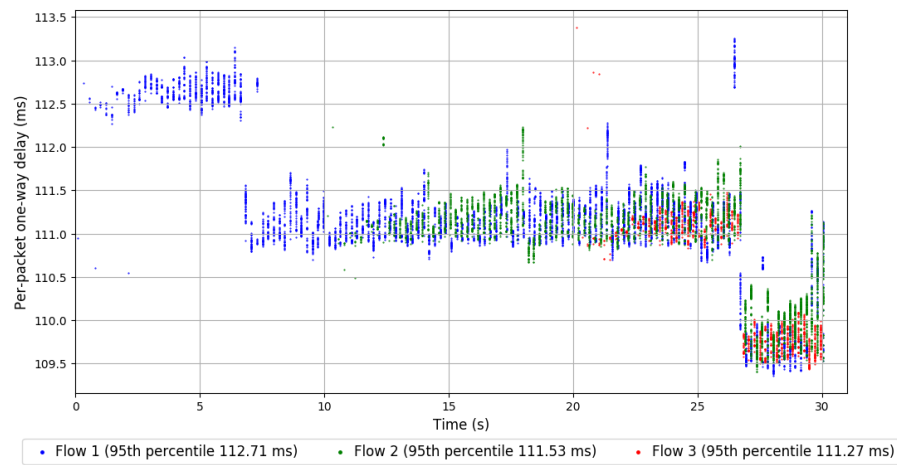
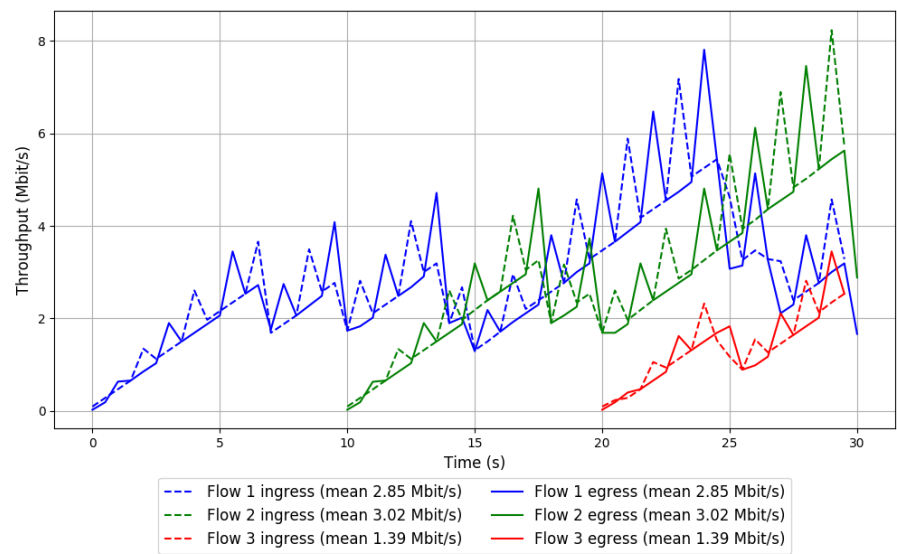


```
Run 1: Statistics of LEDBAT

Start at: 2018-01-02 18:03:18
End at: 2018-01-02 18:03:48

# Below is generated by plot.py at 2018-01-02 21:46:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 5.32 Mbit/s
95th percentile per-packet one-way delay: 112.570 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 2.85 Mbit/s
95th percentile per-packet one-way delay: 112.707 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 3.02 Mbit/s
95th percentile per-packet one-way delay: 111.528 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 1.39 Mbit/s
95th percentile per-packet one-way delay: 111.268 ms
Loss rate: 0.00%
```


Run 1: Report of LEDBAT — Data Link

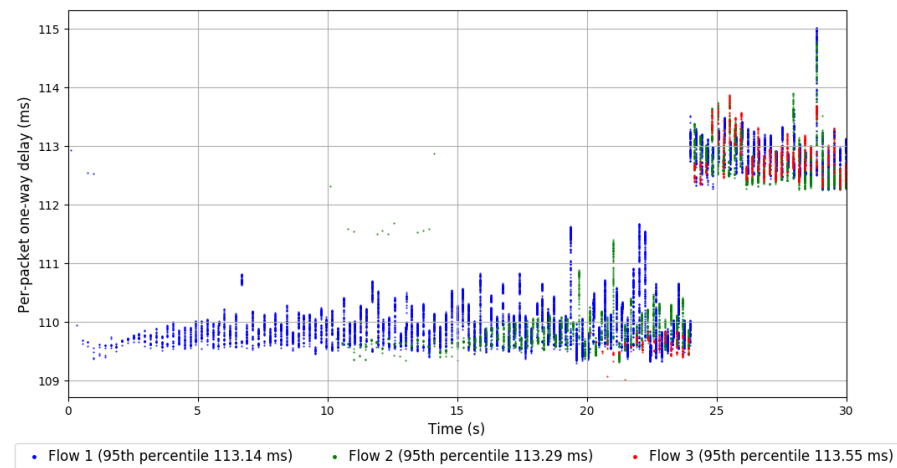
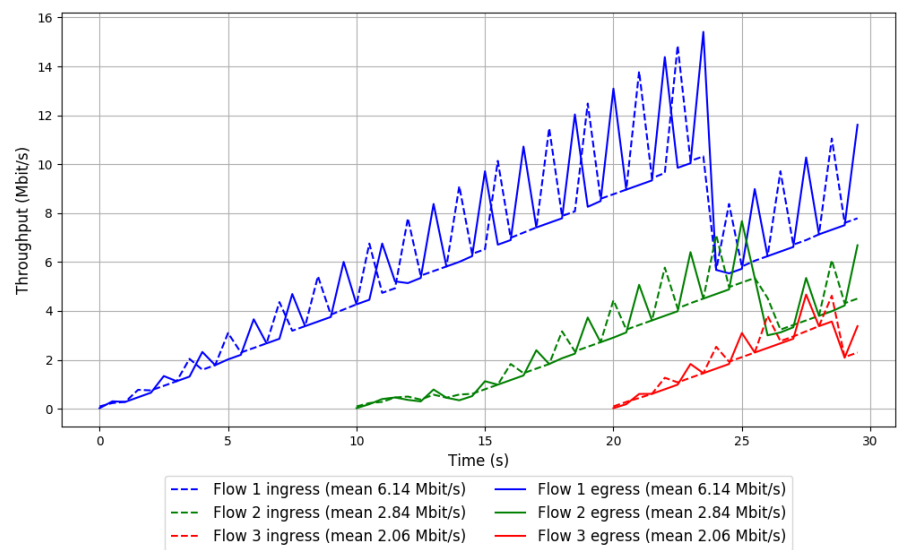


```
Run 2: Statistics of LEDBAT

Start at: 2018-01-02 18:18:41
End at: 2018-01-02 18:19:11

# Below is generated by plot.py at 2018-01-02 21:46:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.71 Mbit/s
95th percentile per-packet one-way delay: 113.195 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 6.14 Mbit/s
95th percentile per-packet one-way delay: 113.138 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 2.84 Mbit/s
95th percentile per-packet one-way delay: 113.292 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 2.06 Mbit/s
95th percentile per-packet one-way delay: 113.553 ms
Loss rate: 0.00%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-01-02 18:34:19

End at: 2018-01-02 18:34:49

Below is generated by plot.py at 2018-01-02 21:46:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 6.42 Mbit/s

95th percentile per-packet one-way delay: 113.457 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 4.04 Mbit/s

95th percentile per-packet one-way delay: 113.408 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 2.52 Mbit/s

95th percentile per-packet one-way delay: 113.295 ms

Loss rate: 0.00%

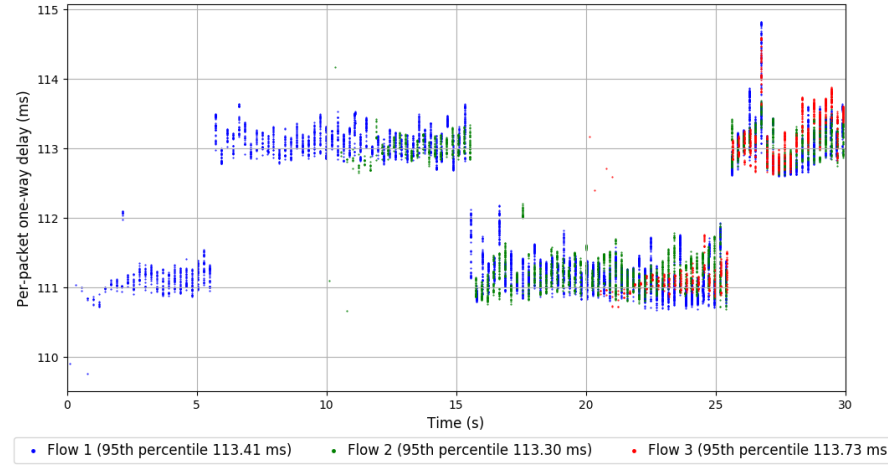
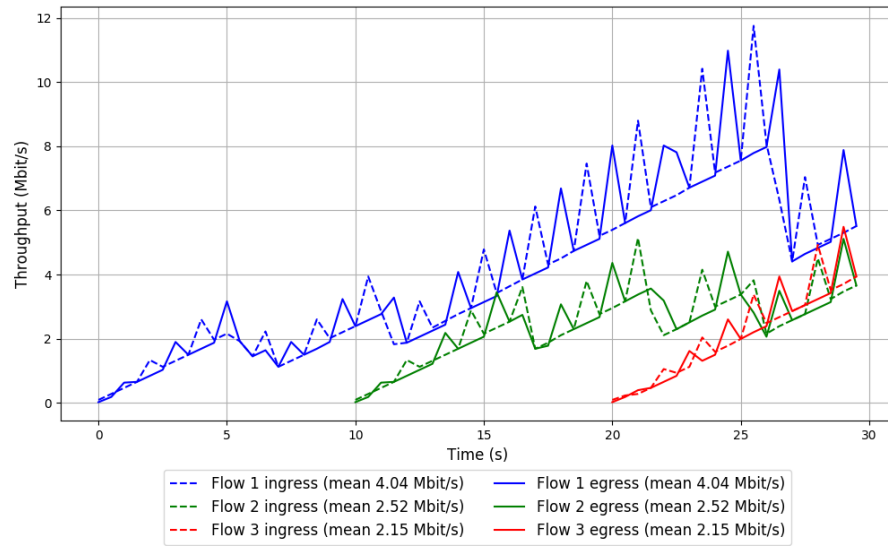
-- Flow 3:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 113.735 ms

Loss rate: 0.00%

Run 3: Report of LEDBAT — Data Link

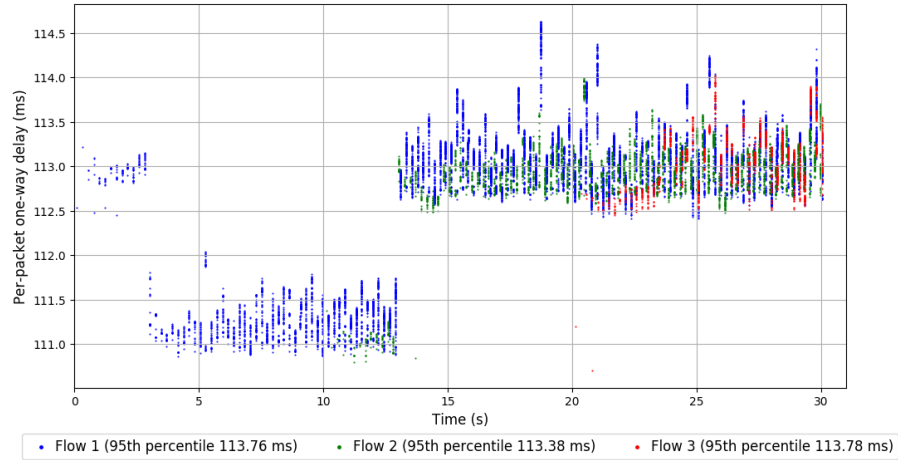
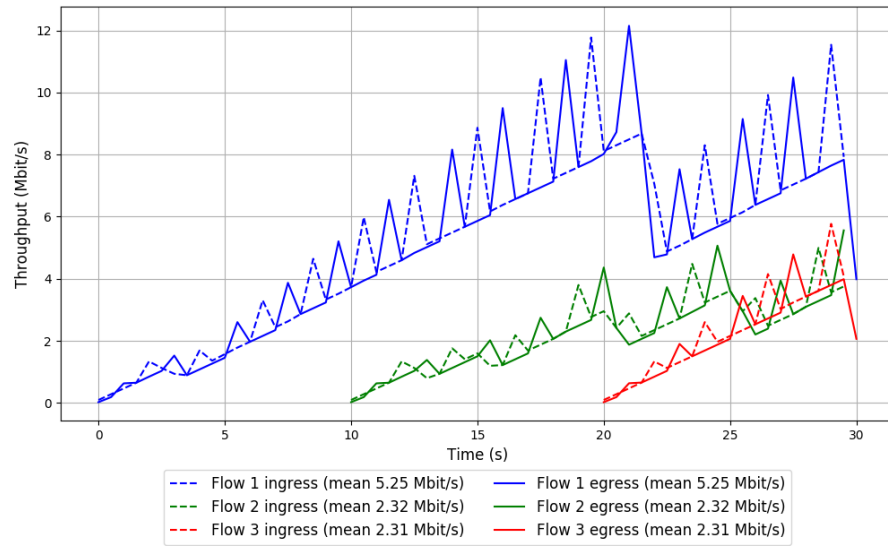


```
Run 4: Statistics of LEDBAT

Start at: 2018-01-02 18:49:42
End at: 2018-01-02 18:50:12

# Below is generated by plot.py at 2018-01-02 21:46:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 7.56 Mbit/s
95th percentile per-packet one-way delay: 113.715 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 5.25 Mbit/s
95th percentile per-packet one-way delay: 113.764 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 2.32 Mbit/s
95th percentile per-packet one-way delay: 113.375 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 2.31 Mbit/s
95th percentile per-packet one-way delay: 113.782 ms
Loss rate: 0.00%
```

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-01-02 19:05:20

End at: 2018-01-02 19:05:50

Below is generated by plot.py at 2018-01-02 21:46:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 8.55 Mbit/s

95th percentile per-packet one-way delay: 112.484 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 4.59 Mbit/s

95th percentile per-packet one-way delay: 112.584 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 4.82 Mbit/s

95th percentile per-packet one-way delay: 112.449 ms

Loss rate: 0.00%

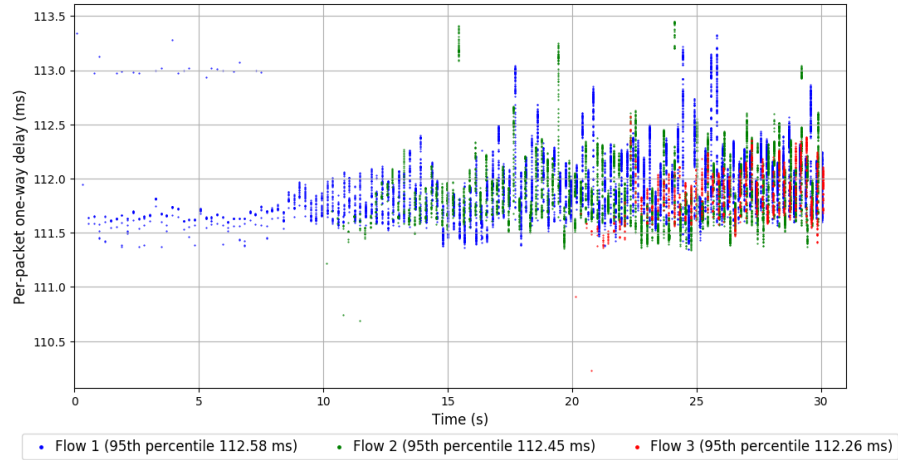
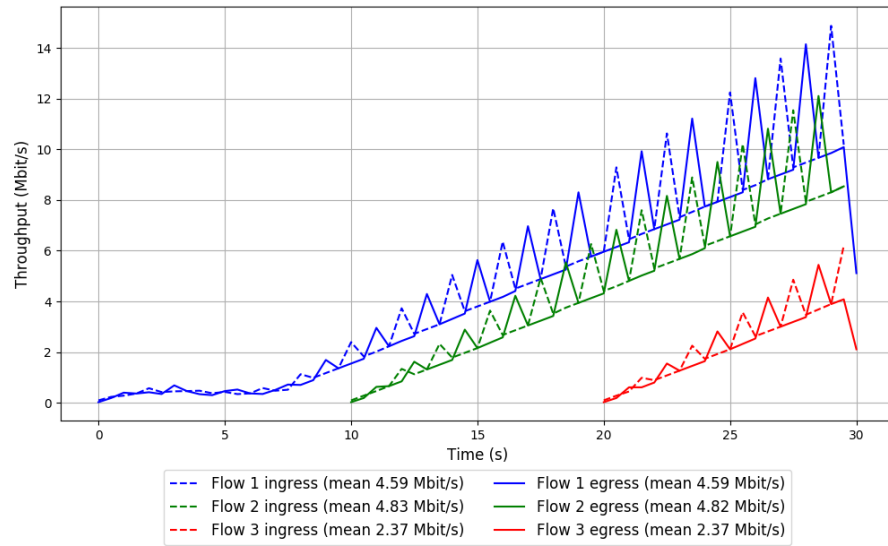
-- Flow 3:

Average throughput: 2.37 Mbit/s

95th percentile per-packet one-way delay: 112.264 ms

Loss rate: 0.00%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-01-02 19:20:47

End at: 2018-01-02 19:21:17

Below is generated by plot.py at 2018-01-02 21:46:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.31 Mbit/s

95th percentile per-packet one-way delay: 112.298 ms

Loss rate: 0.42%

-- Flow 1:

Average throughput: 1.75 Mbit/s

95th percentile per-packet one-way delay: 112.352 ms

Loss rate: 0.80%

-- Flow 2:

Average throughput: 2.16 Mbit/s

95th percentile per-packet one-way delay: 112.208 ms

Loss rate: 0.00%

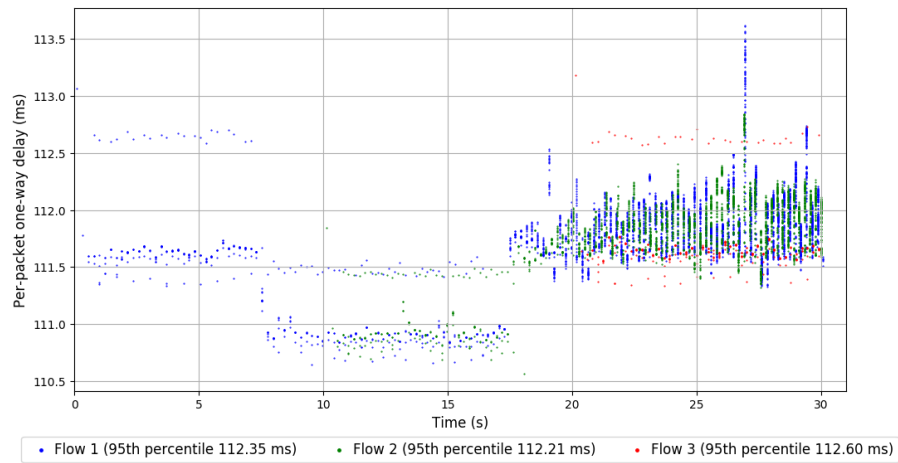
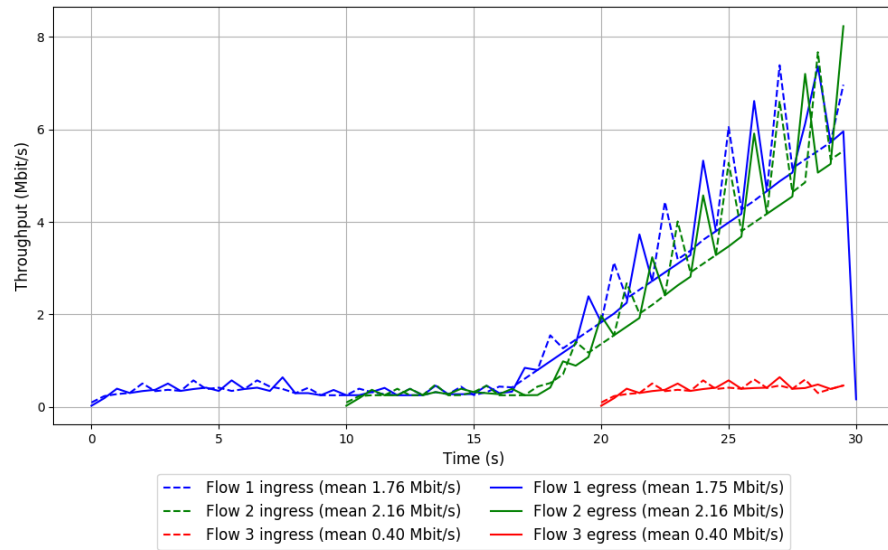
-- Flow 3:

Average throughput: 0.40 Mbit/s

95th percentile per-packet one-way delay: 112.604 ms

Loss rate: 0.00%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-01-02 19:36:25

End at: 2018-01-02 19:36:55

Below is generated by plot.py at 2018-01-02 21:46:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.93 Mbit/s

95th percentile per-packet one-way delay: 114.264 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.91 Mbit/s

95th percentile per-packet one-way delay: 113.958 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 3.43 Mbit/s

95th percentile per-packet one-way delay: 114.386 ms

Loss rate: 0.00%

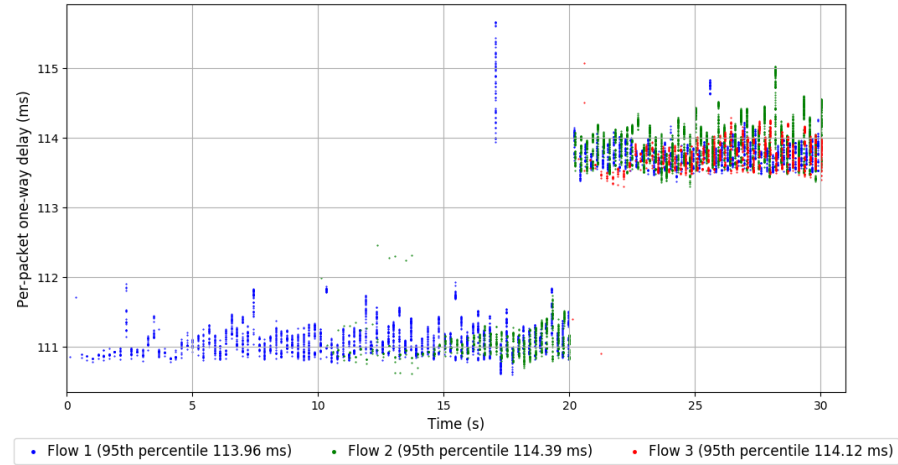
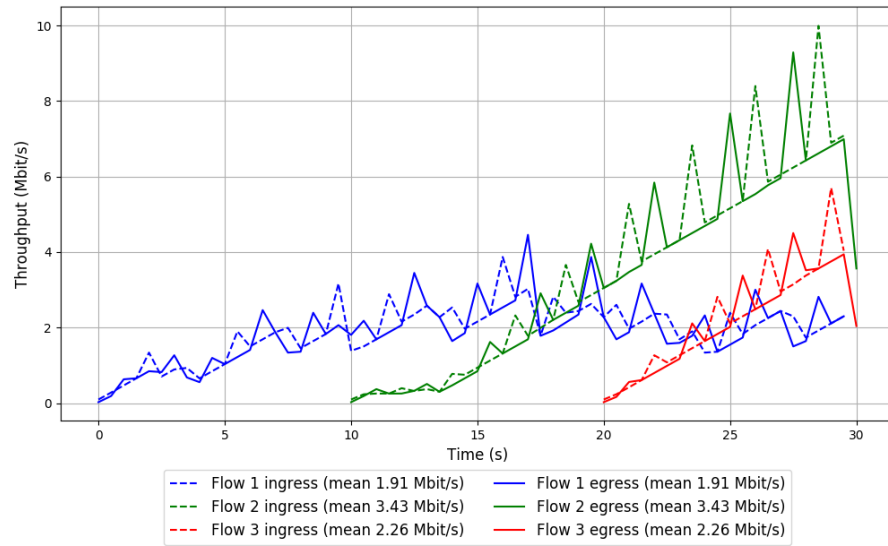
-- Flow 3:

Average throughput: 2.26 Mbit/s

95th percentile per-packet one-way delay: 114.119 ms

Loss rate: 0.00%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-01-02 19:51:37

End at: 2018-01-02 19:52:07

Below is generated by plot.py at 2018-01-02 21:46:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 5.71 Mbit/s

95th percentile per-packet one-way delay: 114.221 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 3.26 Mbit/s

95th percentile per-packet one-way delay: 114.384 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 2.60 Mbit/s

95th percentile per-packet one-way delay: 114.011 ms

Loss rate: 0.00%

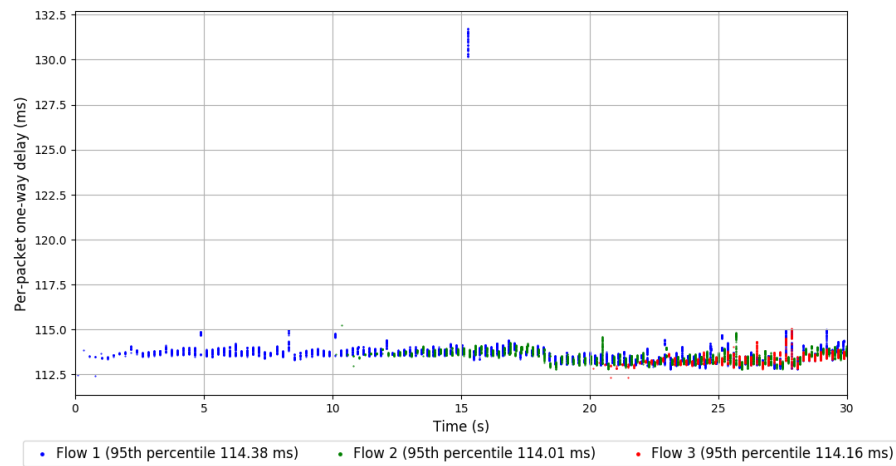
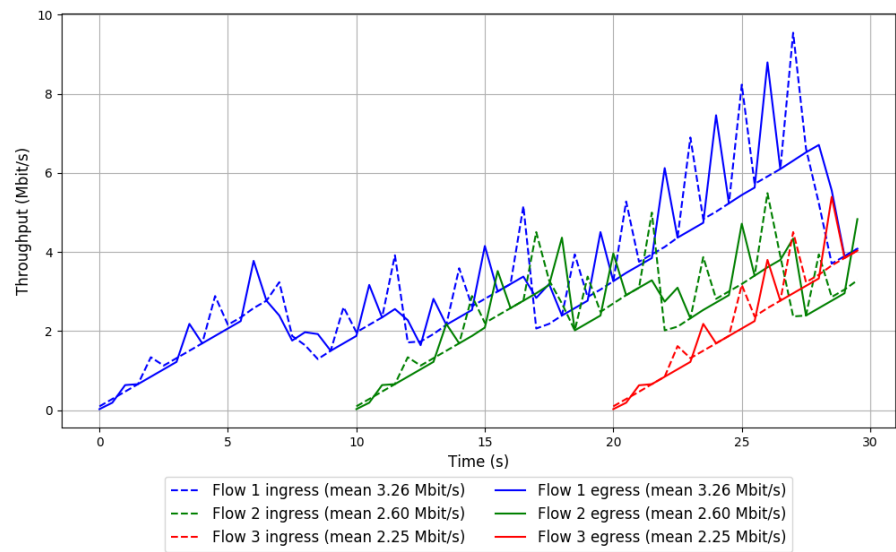
-- Flow 3:

Average throughput: 2.25 Mbit/s

95th percentile per-packet one-way delay: 114.160 ms

Loss rate: 0.00%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-01-02 20:06:53

End at: 2018-01-02 20:07:23

Below is generated by plot.py at 2018-01-02 21:46:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 6.48 Mbit/s

95th percentile per-packet one-way delay: 114.460 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 4.59 Mbit/s

95th percentile per-packet one-way delay: 114.458 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 2.10 Mbit/s

95th percentile per-packet one-way delay: 114.466 ms

Loss rate: 0.00%

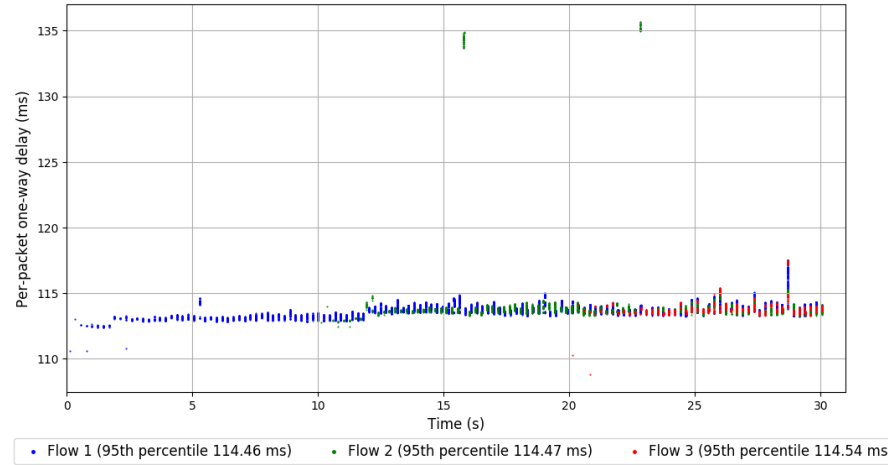
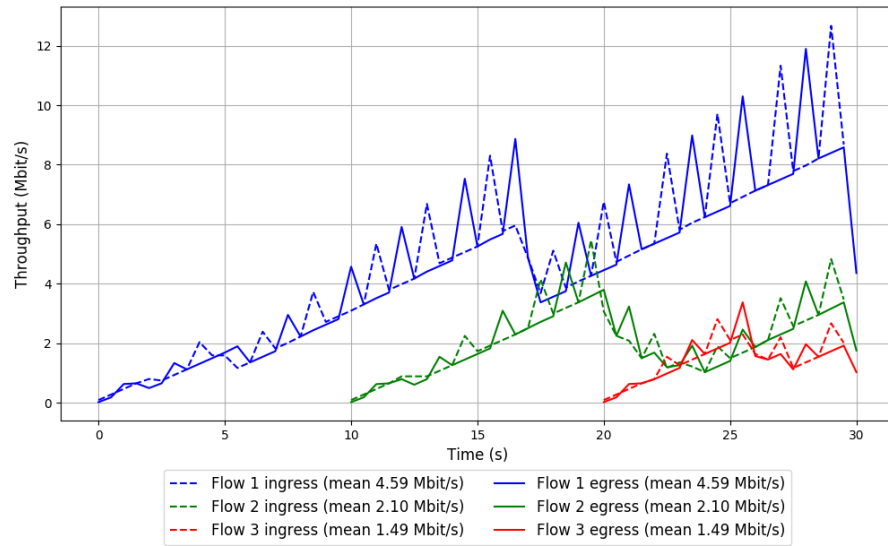
-- Flow 3:

Average throughput: 1.49 Mbit/s

95th percentile per-packet one-way delay: 114.544 ms

Loss rate: 0.24%

Run 9: Report of LEDBAT — Data Link

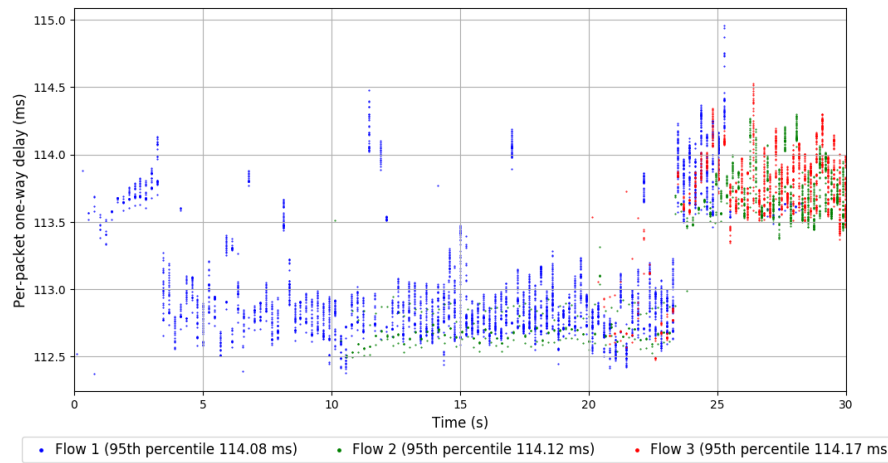
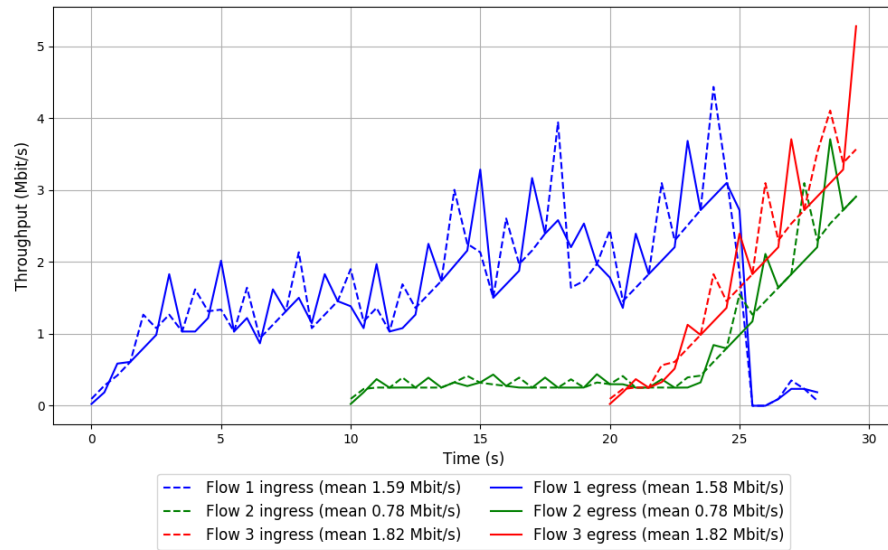


```
Run 10: Statistics of LEDBAT

Start at: 2018-01-02 20:22:22
End at: 2018-01-02 20:22:52

# Below is generated by plot.py at 2018-01-02 21:46:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 2.61 Mbit/s
95th percentile per-packet one-way delay: 114.121 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 1.58 Mbit/s
95th percentile per-packet one-way delay: 114.081 ms
Loss rate: 0.84%
-- Flow 2:
Average throughput: 0.78 Mbit/s
95th percentile per-packet one-way delay: 114.121 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 1.82 Mbit/s
95th percentile per-packet one-way delay: 114.172 ms
Loss rate: 0.00%
```

Run 10: Report of LEDBAT — Data Link

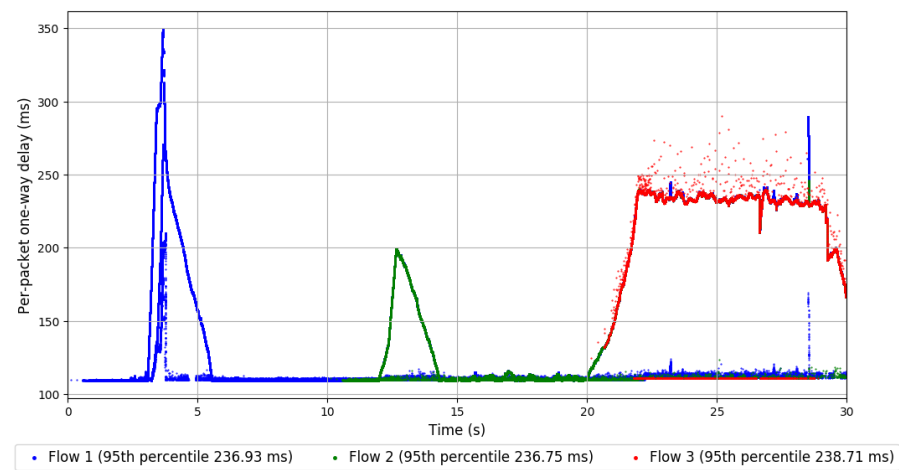
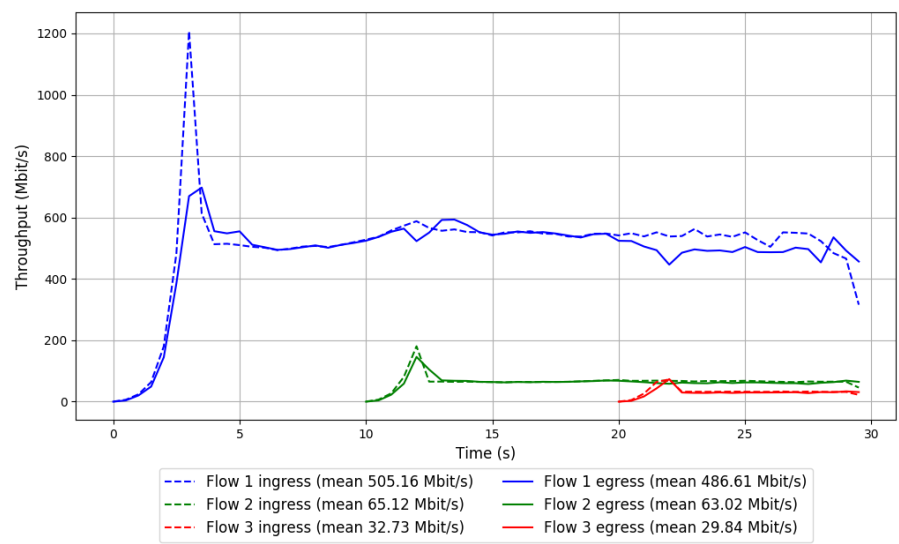


```
Run 1: Statistics of PCC

Start at: 2018-01-02 18:04:05
End at: 2018-01-02 18:04:35

# Below is generated by plot.py at 2018-01-02 21:52:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 538.31 Mbit/s
95th percentile per-packet one-way delay: 236.981 ms
Loss rate: 3.73%
-- Flow 1:
Average throughput: 486.61 Mbit/s
95th percentile per-packet one-way delay: 236.926 ms
Loss rate: 3.66%
-- Flow 2:
Average throughput: 63.02 Mbit/s
95th percentile per-packet one-way delay: 236.753 ms
Loss rate: 3.22%
-- Flow 3:
Average throughput: 29.84 Mbit/s
95th percentile per-packet one-way delay: 238.706 ms
Loss rate: 8.93%
```

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2018-01-02 18:19:28

End at: 2018-01-02 18:19:58

Below is generated by plot.py at 2018-01-02 21:52:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 542.94 Mbit/s

95th percentile per-packet one-way delay: 231.440 ms

Loss rate: 1.80%

-- Flow 1:

Average throughput: 500.61 Mbit/s

95th percentile per-packet one-way delay: 231.500 ms

Loss rate: 1.84%

-- Flow 2:

Average throughput: 62.64 Mbit/s

95th percentile per-packet one-way delay: 230.970 ms

Loss rate: 1.31%

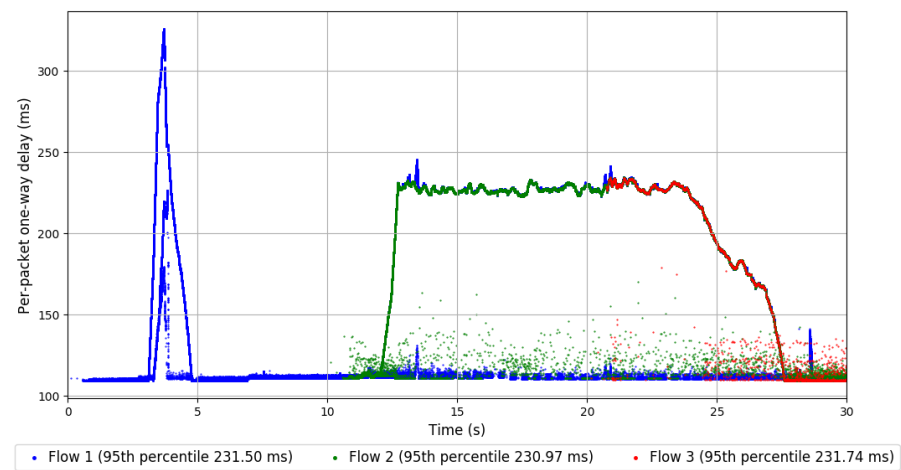
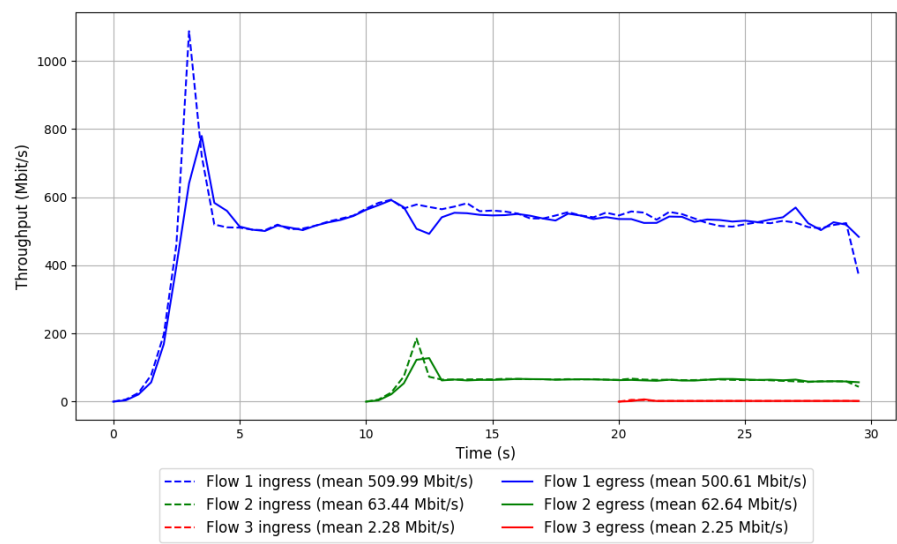
-- Flow 3:

Average throughput: 2.25 Mbit/s

95th percentile per-packet one-way delay: 231.744 ms

Loss rate: 1.45%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2018-01-02 18:35:06

End at: 2018-01-02 18:35:36

Below is generated by plot.py at 2018-01-02 21:52:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 346.38 Mbit/s

95th percentile per-packet one-way delay: 231.696 ms

Loss rate: 5.92%

-- Flow 1:

Average throughput: 4.18 Mbit/s

95th percentile per-packet one-way delay: 229.612 ms

Loss rate: 2.99%

-- Flow 2:

Average throughput: 459.94 Mbit/s

95th percentile per-packet one-way delay: 231.691 ms

Loss rate: 5.81%

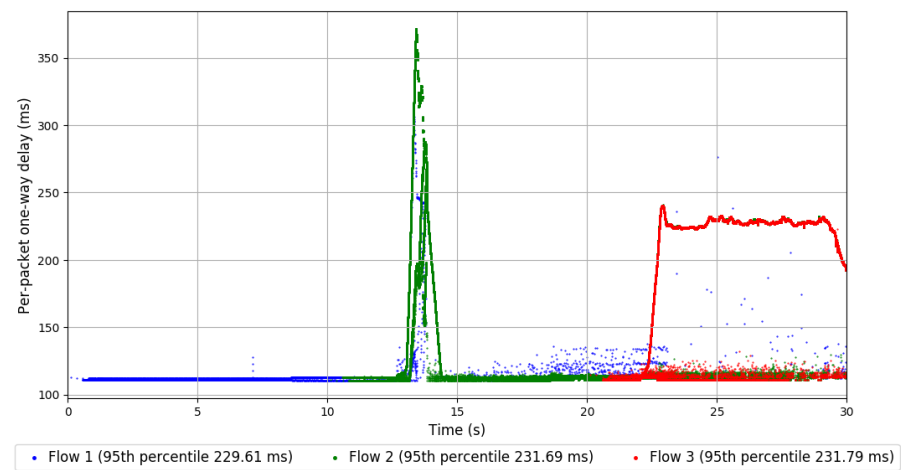
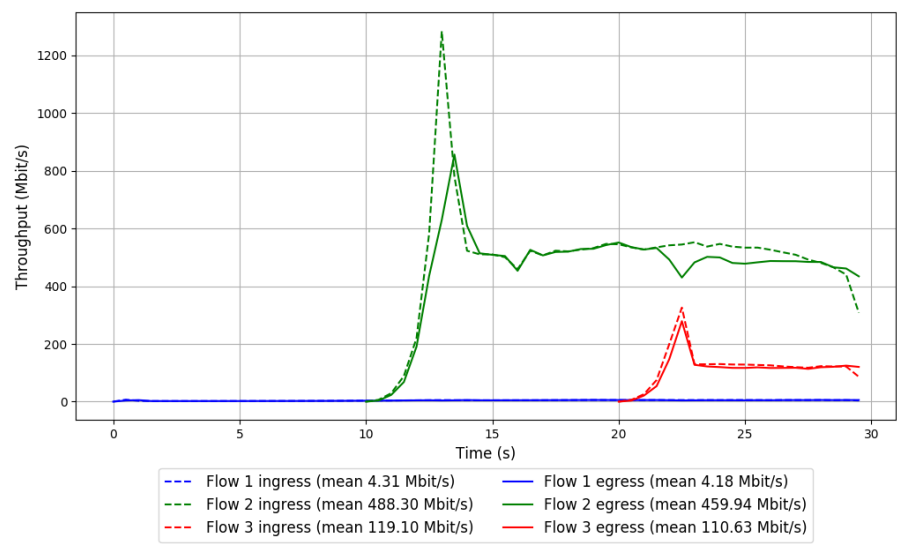
-- Flow 3:

Average throughput: 110.63 Mbit/s

95th percentile per-packet one-way delay: 231.793 ms

Loss rate: 7.13%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2018-01-02 18:50:29

End at: 2018-01-02 18:50:59

Below is generated by plot.py at 2018-01-02 21:53:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 542.79 Mbit/s

95th percentile per-packet one-way delay: 237.115 ms

Loss rate: 1.59%

-- Flow 1:

Average throughput: 497.93 Mbit/s

95th percentile per-packet one-way delay: 237.196 ms

Loss rate: 1.68%

-- Flow 2:

Average throughput: 65.30 Mbit/s

95th percentile per-packet one-way delay: 236.526 ms

Loss rate: 0.60%

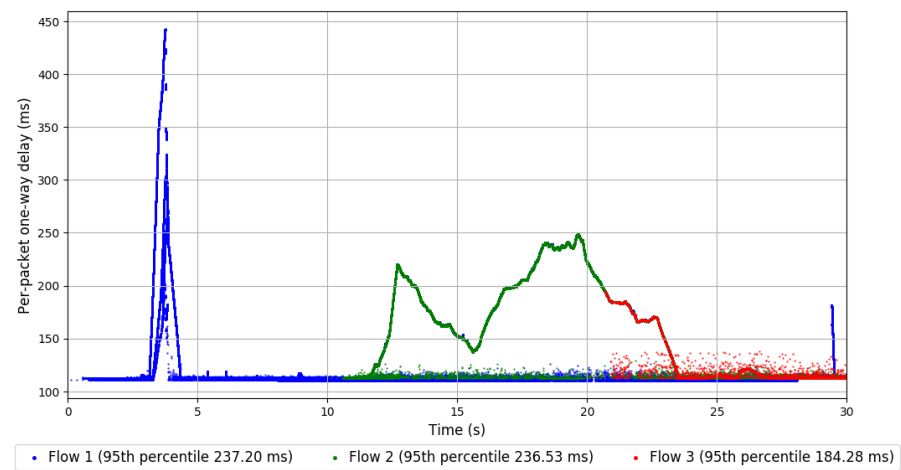
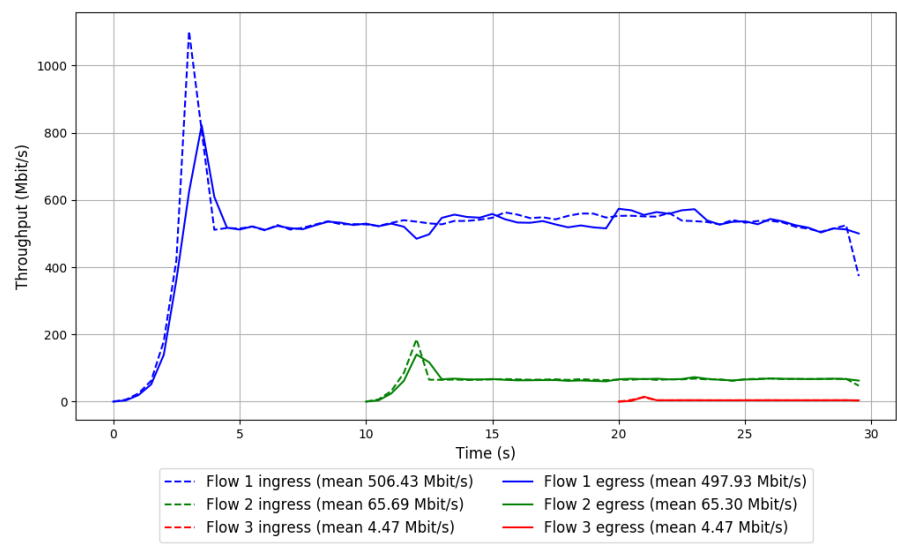
-- Flow 3:

Average throughput: 4.47 Mbit/s

95th percentile per-packet one-way delay: 184.282 ms

Loss rate: 0.03%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2018-01-02 19:06:07

End at: 2018-01-02 19:06:37

Below is generated by plot.py at 2018-01-02 21:53:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 504.95 Mbit/s

95th percentile per-packet one-way delay: 255.466 ms

Loss rate: 0.96%

-- Flow 1:

Average throughput: 461.43 Mbit/s

95th percentile per-packet one-way delay: 255.639 ms

Loss rate: 0.99%

-- Flow 2:

Average throughput: 33.75 Mbit/s

95th percentile per-packet one-way delay: 255.356 ms

Loss rate: 0.74%

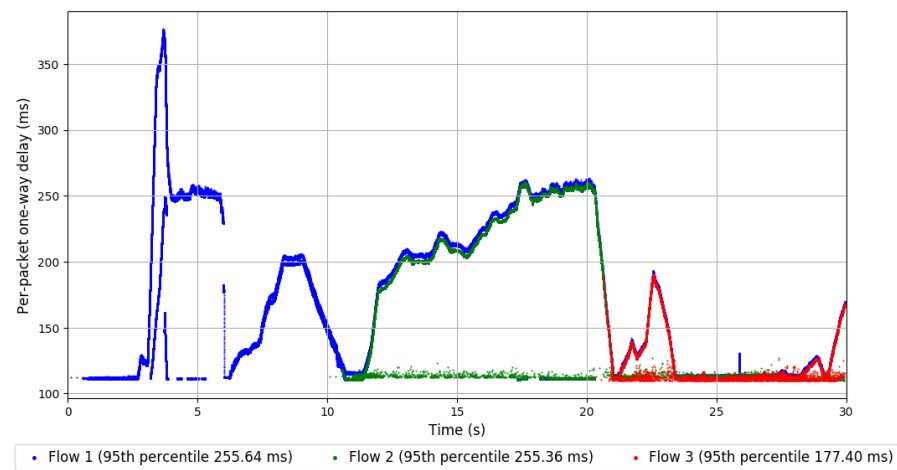
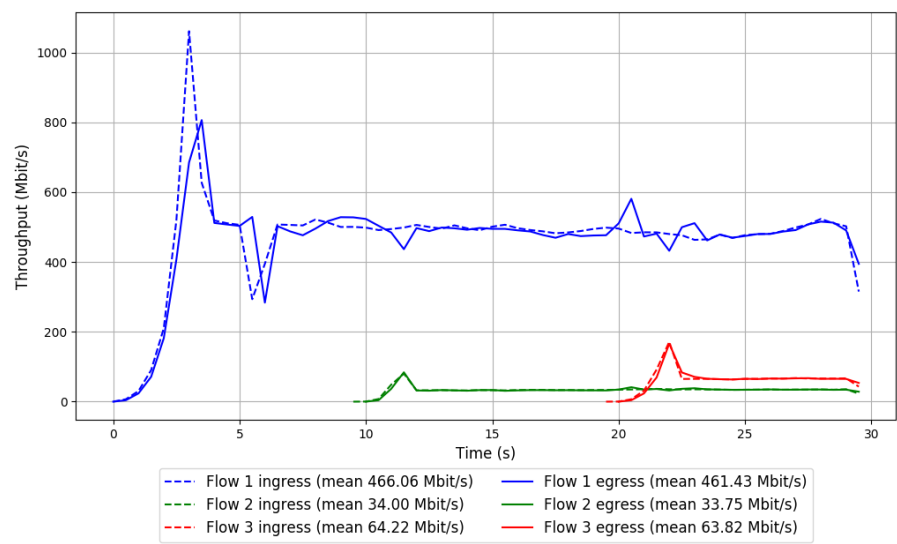
-- Flow 3:

Average throughput: 63.82 Mbit/s

95th percentile per-packet one-way delay: 177.395 ms

Loss rate: 0.58%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2018-01-02 19:21:34

End at: 2018-01-02 19:22:04

Below is generated by plot.py at 2018-01-02 21:53:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 520.19 Mbit/s

95th percentile per-packet one-way delay: 248.685 ms

Loss rate: 4.83%

-- Flow 1:

Average throughput: 478.44 Mbit/s

95th percentile per-packet one-way delay: 248.758 ms

Loss rate: 4.87%

-- Flow 2:

Average throughput: 61.82 Mbit/s

95th percentile per-packet one-way delay: 248.170 ms

Loss rate: 4.33%

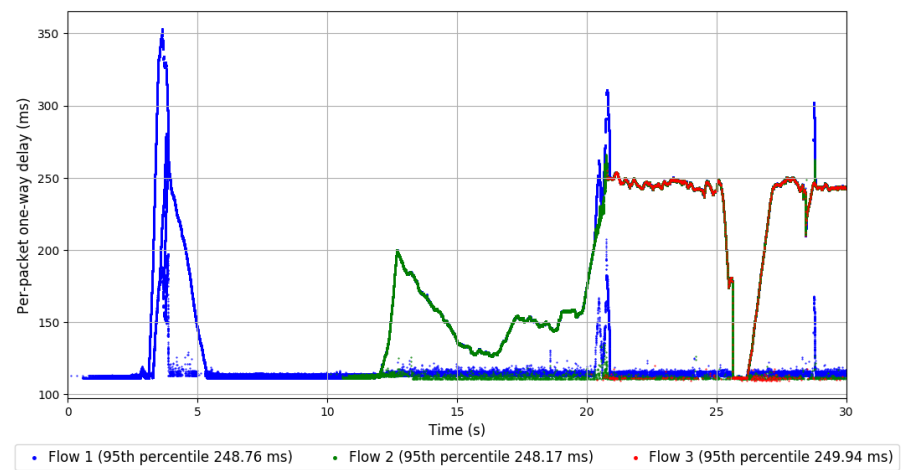
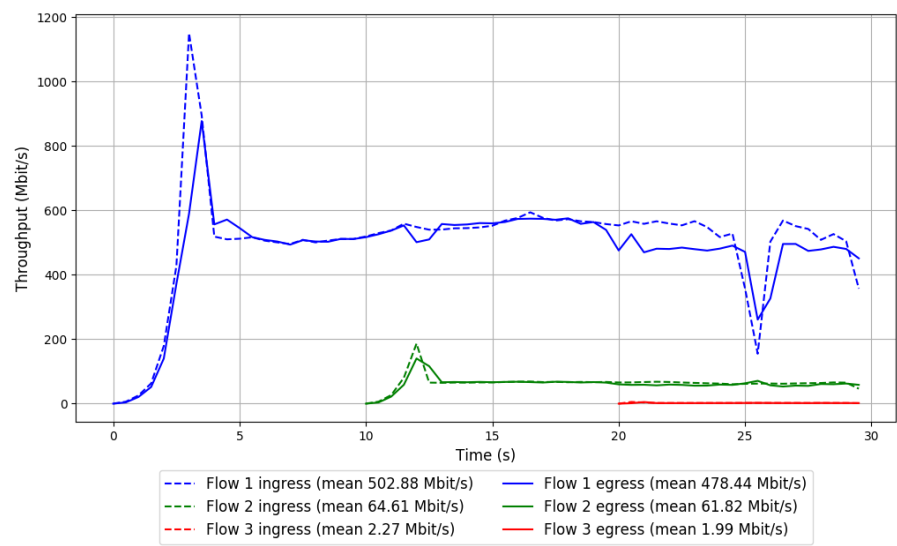
-- Flow 3:

Average throughput: 1.99 Mbit/s

95th percentile per-packet one-way delay: 249.936 ms

Loss rate: 12.40%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2018-01-02 19:37:11

End at: 2018-01-02 19:37:41

Below is generated by plot.py at 2018-01-02 21:53:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 459.69 Mbit/s

95th percentile per-packet one-way delay: 247.087 ms

Loss rate: 2.07%

-- Flow 1:

Average throughput: 362.07 Mbit/s

95th percentile per-packet one-way delay: 246.932 ms

Loss rate: 1.85%

-- Flow 2:

Average throughput: 144.80 Mbit/s

95th percentile per-packet one-way delay: 247.369 ms

Loss rate: 2.86%

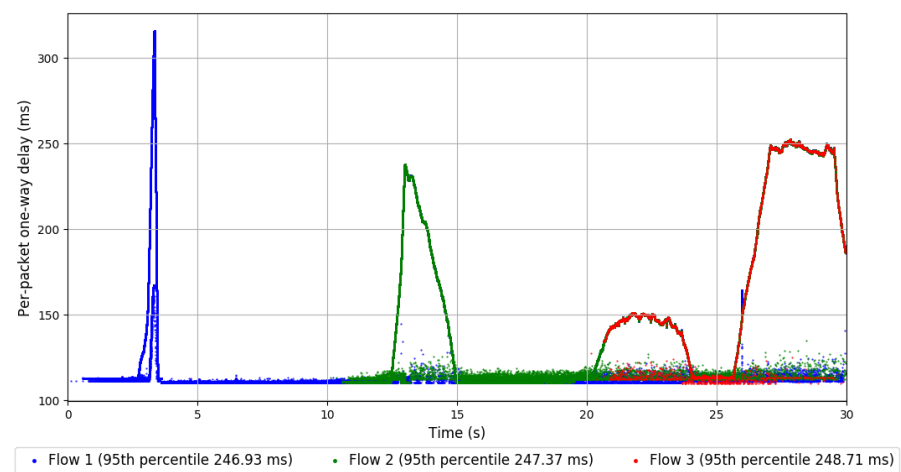
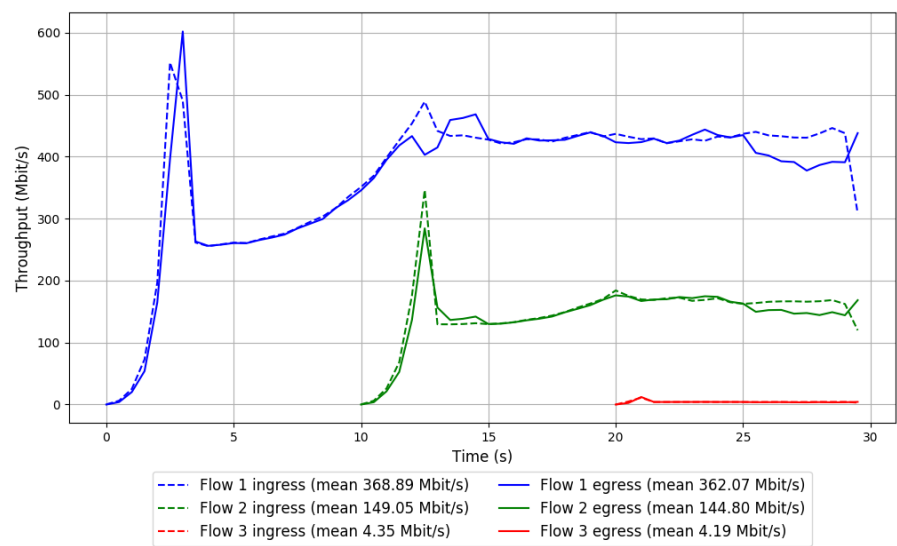
-- Flow 3:

Average throughput: 4.19 Mbit/s

95th percentile per-packet one-way delay: 248.710 ms

Loss rate: 3.94%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2018-01-02 19:52:23

End at: 2018-01-02 19:52:53

Below is generated by plot.py at 2018-01-02 21:53:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 466.81 Mbit/s

95th percentile per-packet one-way delay: 225.374 ms

Loss rate: 2.62%

-- Flow 1:

Average throughput: 275.29 Mbit/s

95th percentile per-packet one-way delay: 225.092 ms

Loss rate: 1.96%

-- Flow 2:

Average throughput: 258.77 Mbit/s

95th percentile per-packet one-way delay: 225.500 ms

Loss rate: 3.31%

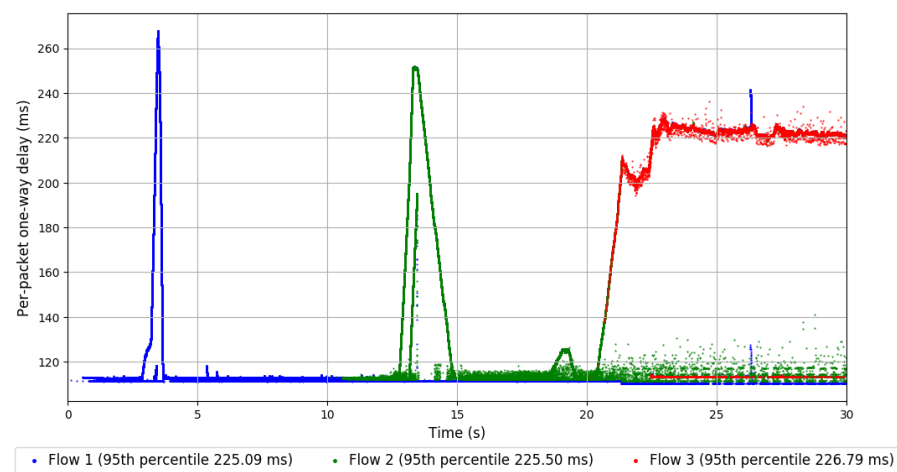
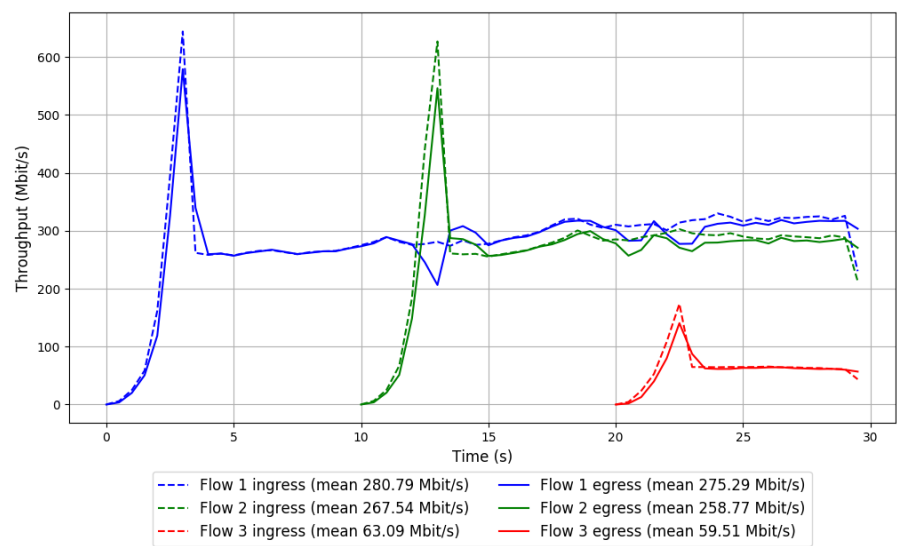
-- Flow 3:

Average throughput: 59.51 Mbit/s

95th percentile per-packet one-way delay: 226.788 ms

Loss rate: 5.69%

Run 8: Report of PCC — Data Link

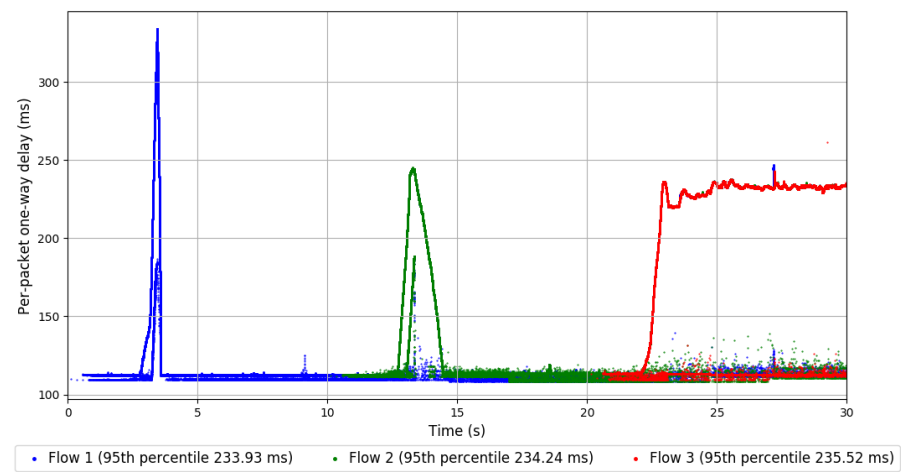
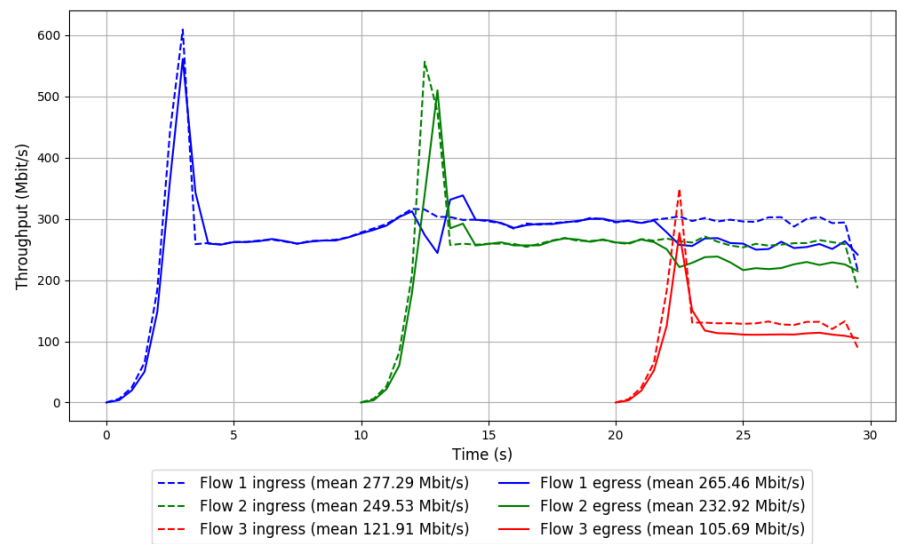


```
Run 9: Statistics of PCC

Start at: 2018-01-02 20:07:40
End at: 2018-01-02 20:08:10

# Below is generated by plot.py at 2018-01-02 21:58:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 455.07 Mbit/s
95th percentile per-packet one-way delay: 234.197 ms
Loss rate: 5.84%
-- Flow 1:
Average throughput: 265.46 Mbit/s
95th percentile per-packet one-way delay: 233.925 ms
Loss rate: 4.26%
-- Flow 2:
Average throughput: 232.92 Mbit/s
95th percentile per-packet one-way delay: 234.242 ms
Loss rate: 6.66%
-- Flow 3:
Average throughput: 105.69 Mbit/s
95th percentile per-packet one-way delay: 235.524 ms
Loss rate: 13.31%
```

Run 9: Report of PCC — Data Link

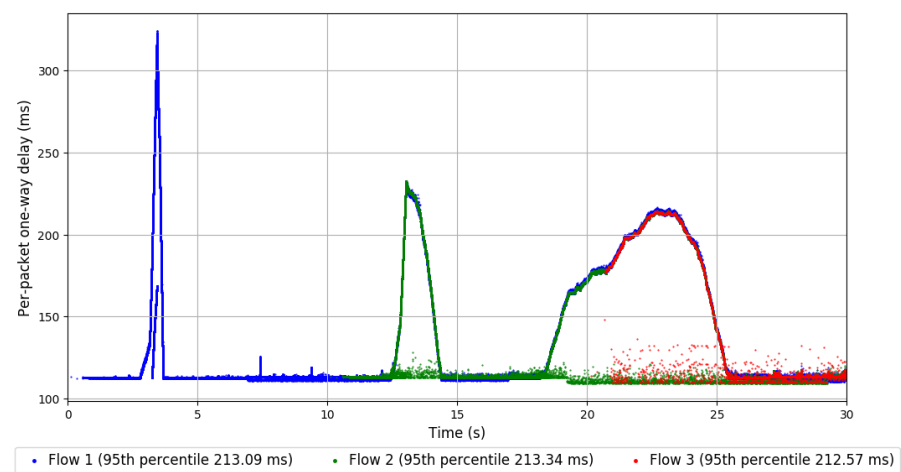
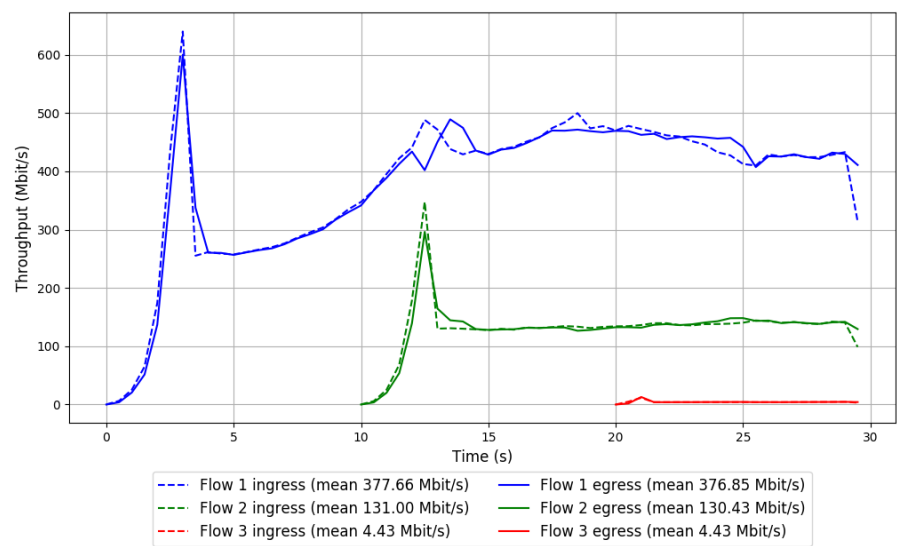


```
Run 10: Statistics of PCC

Start at: 2018-01-02 20:23:08
End at: 2018-01-02 20:23:38

# Below is generated by plot.py at 2018-01-02 22:00:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 465.01 Mbit/s
95th percentile per-packet one-way delay: 213.129 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 376.85 Mbit/s
95th percentile per-packet one-way delay: 213.091 ms
Loss rate: 0.22%
-- Flow 2:
Average throughput: 130.43 Mbit/s
95th percentile per-packet one-way delay: 213.337 ms
Loss rate: 0.44%
-- Flow 3:
Average throughput: 4.43 Mbit/s
95th percentile per-packet one-way delay: 212.575 ms
Loss rate: 0.03%
```

Run 10: Report of PCC — Data Link

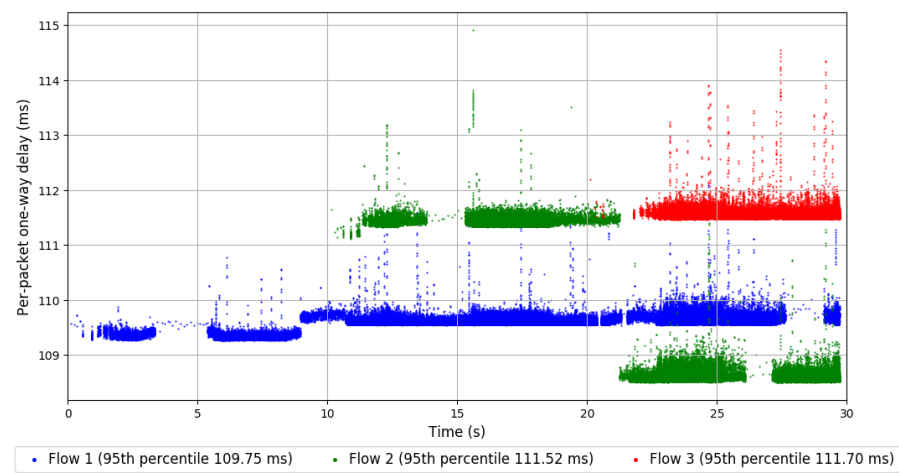
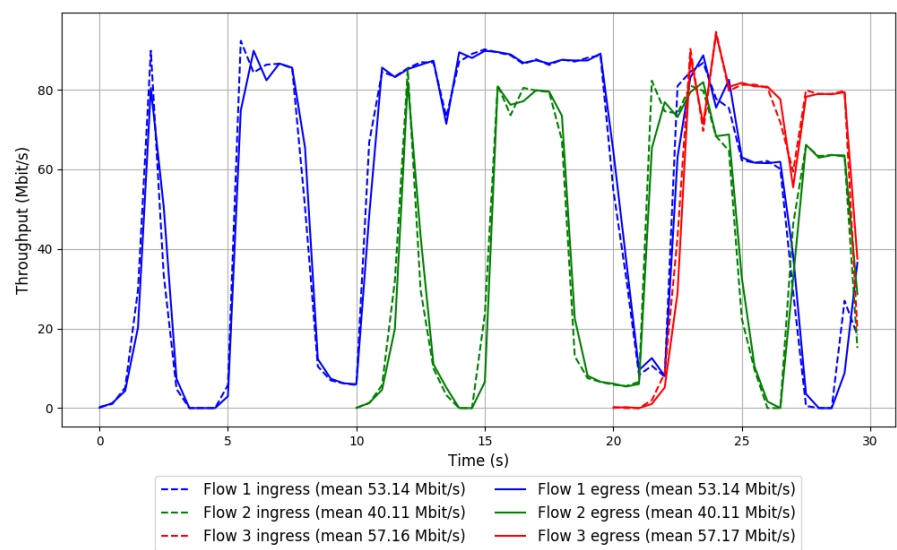


```
Run 1: Statistics of QUIC Cubic

Start at: 2018-01-02 18:02:26
End at: 2018-01-02 18:02:56

# Below is generated by plot.py at 2018-01-02 22:00:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 98.22 Mbit/s
95th percentile per-packet one-way delay: 111.589 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 53.14 Mbit/s
95th percentile per-packet one-way delay: 109.752 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 40.11 Mbit/s
95th percentile per-packet one-way delay: 111.520 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 57.17 Mbit/s
95th percentile per-packet one-way delay: 111.702 ms
Loss rate: 0.00%
```


Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-01-02 18:17:48

End at: 2018-01-02 18:18:18

Below is generated by plot.py at 2018-01-02 22:00:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.57 Mbit/s

95th percentile per-packet one-way delay: 111.577 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 48.38 Mbit/s

95th percentile per-packet one-way delay: 111.599 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 57.05 Mbit/s

95th percentile per-packet one-way delay: 111.201 ms

Loss rate: 0.00%

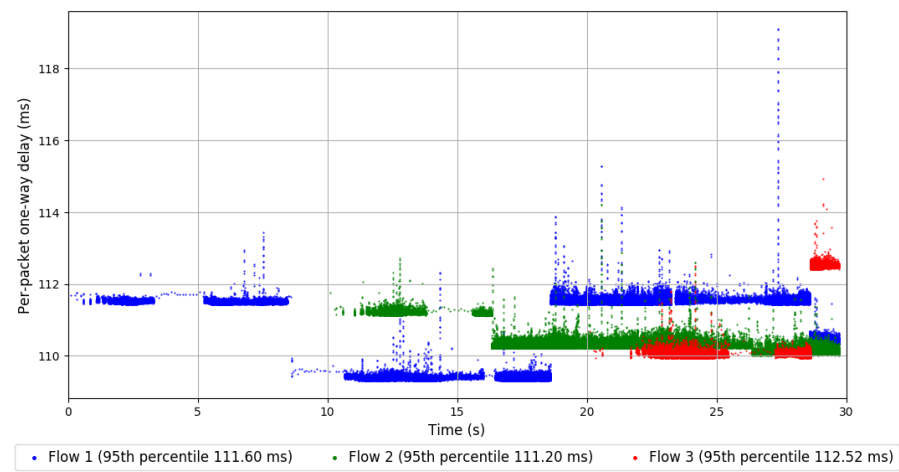
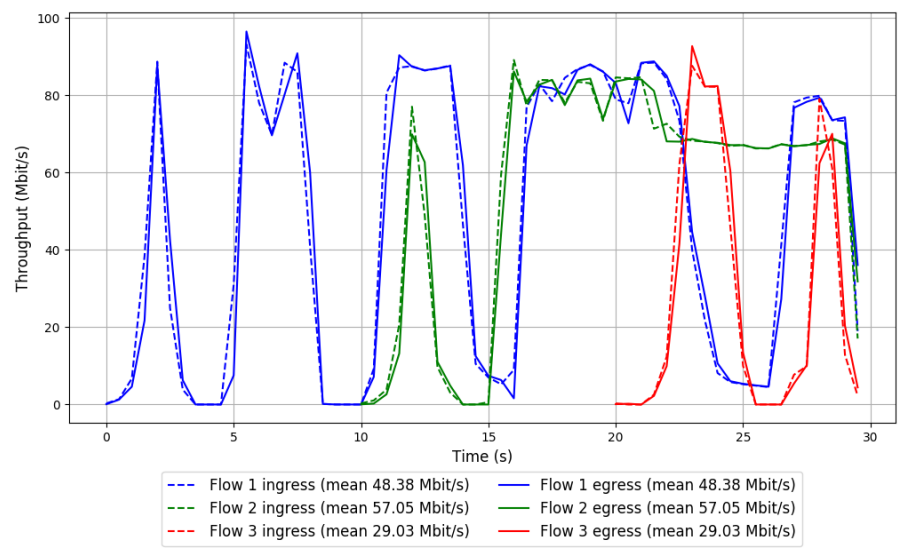
-- Flow 3:

Average throughput: 29.03 Mbit/s

95th percentile per-packet one-way delay: 112.520 ms

Loss rate: 0.00%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-01-02 18:33:27

End at: 2018-01-02 18:33:57

Below is generated by plot.py at 2018-01-02 22:00:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.01 Mbit/s

95th percentile per-packet one-way delay: 112.373 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 53.60 Mbit/s

95th percentile per-packet one-way delay: 110.094 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 43.74 Mbit/s

95th percentile per-packet one-way delay: 109.096 ms

Loss rate: 0.00%

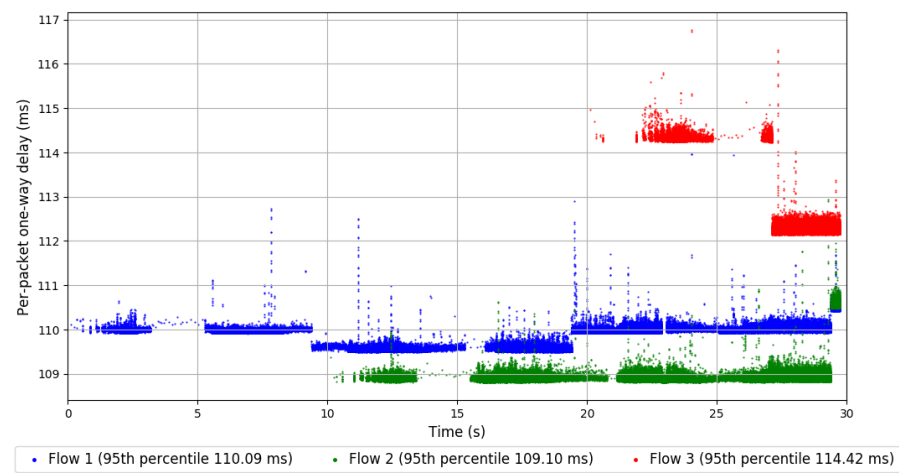
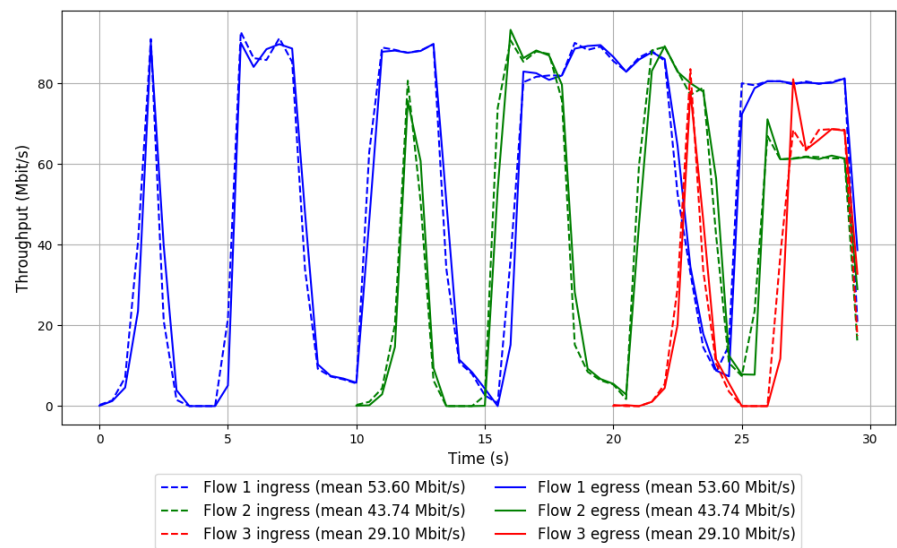
-- Flow 3:

Average throughput: 29.10 Mbit/s

95th percentile per-packet one-way delay: 114.421 ms

Loss rate: 0.00%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-01-02 18:48:50

End at: 2018-01-02 18:49:20

Below is generated by plot.py at 2018-01-02 22:00:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.51 Mbit/s

95th percentile per-packet one-way delay: 112.680 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 54.00 Mbit/s

95th percentile per-packet one-way delay: 112.317 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 44.02 Mbit/s

95th percentile per-packet one-way delay: 112.722 ms

Loss rate: 0.00%

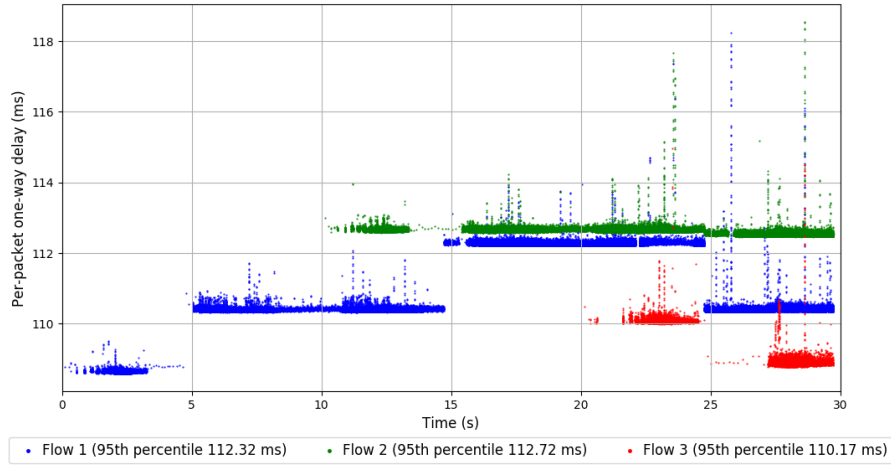
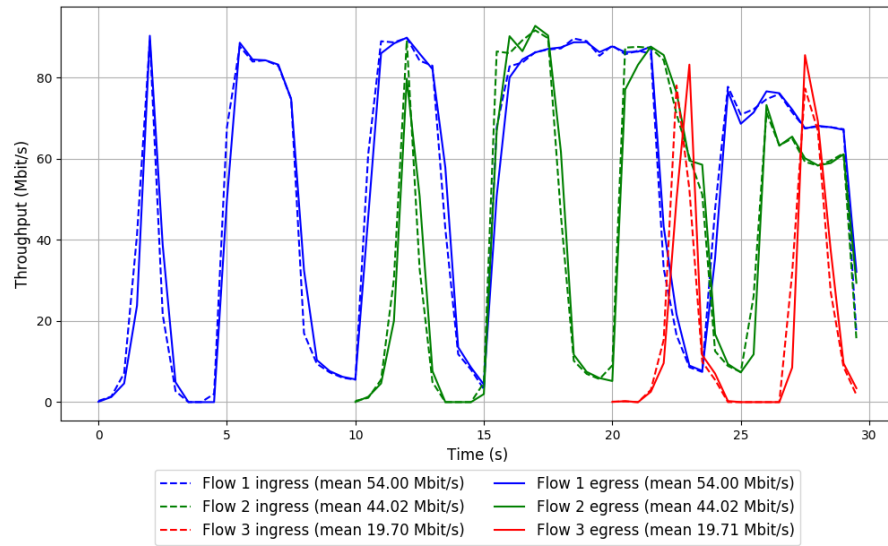
-- Flow 3:

Average throughput: 19.71 Mbit/s

95th percentile per-packet one-way delay: 110.170 ms

Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-01-02 19:04:27

End at: 2018-01-02 19:04:57

Below is generated by plot.py at 2018-01-02 22:00:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 99.38 Mbit/s

95th percentile per-packet one-way delay: 112.495 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 59.21 Mbit/s

95th percentile per-packet one-way delay: 112.511 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 51.02 Mbit/s

95th percentile per-packet one-way delay: 112.382 ms

Loss rate: 0.00%

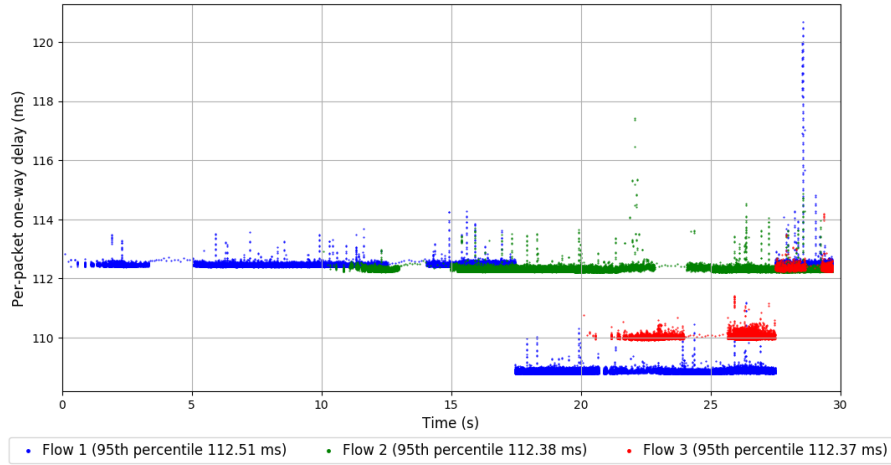
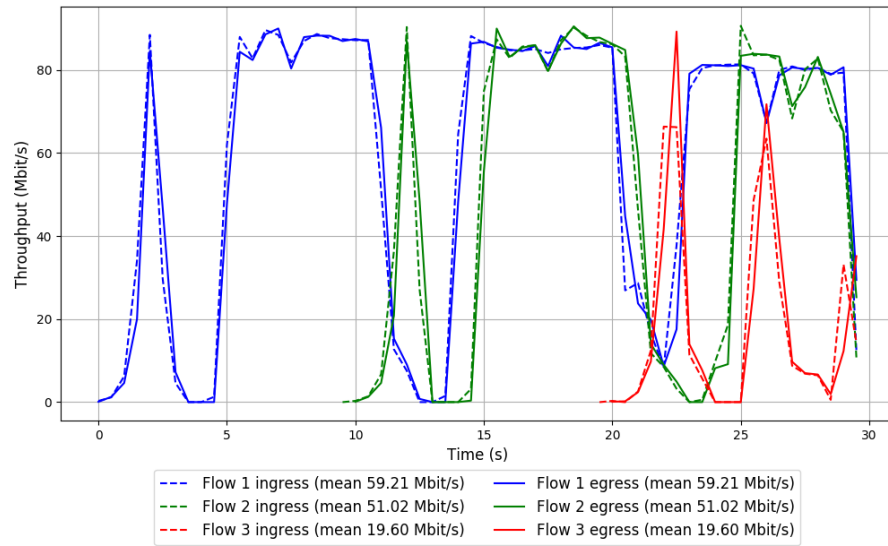
-- Flow 3:

Average throughput: 19.60 Mbit/s

95th percentile per-packet one-way delay: 112.372 ms

Loss rate: 0.00%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-01-02 19:19:55

End at: 2018-01-02 19:20:25

Below is generated by plot.py at 2018-01-02 22:00:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 90.12 Mbit/s

95th percentile per-packet one-way delay: 112.304 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 50.36 Mbit/s

95th percentile per-packet one-way delay: 112.294 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 50.26 Mbit/s

95th percentile per-packet one-way delay: 112.332 ms

Loss rate: 0.04%

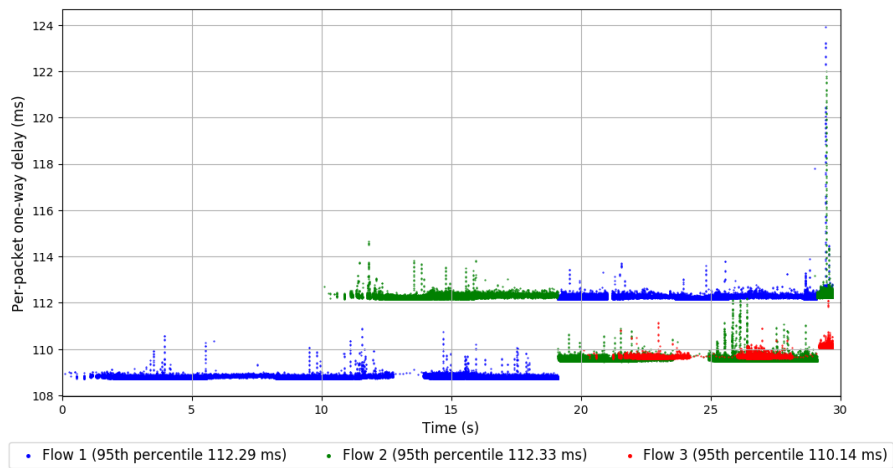
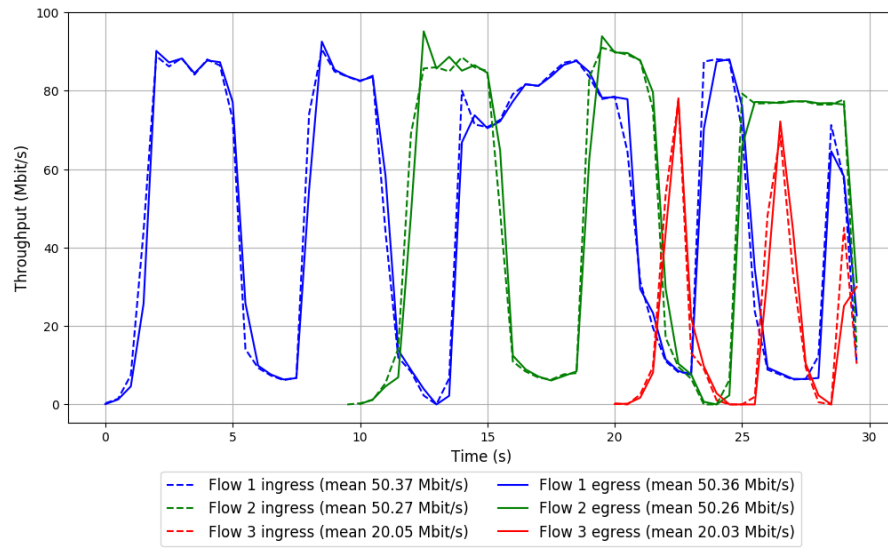
-- Flow 3:

Average throughput: 20.03 Mbit/s

95th percentile per-packet one-way delay: 110.139 ms

Loss rate: 0.10%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-01-02 19:35:32

End at: 2018-01-02 19:36:02

Below is generated by plot.py at 2018-01-02 22:00:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.81 Mbit/s

95th percentile per-packet one-way delay: 112.336 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 52.06 Mbit/s

95th percentile per-packet one-way delay: 112.370 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 53.30 Mbit/s

95th percentile per-packet one-way delay: 111.553 ms

Loss rate: 0.01%

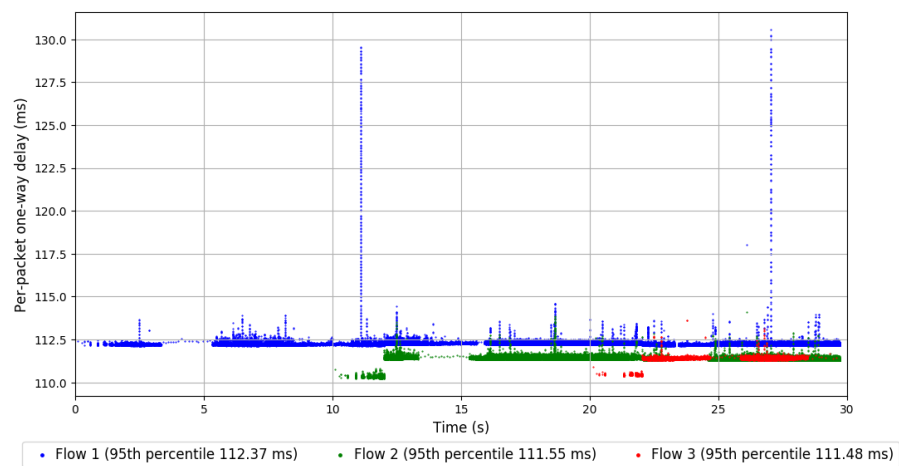
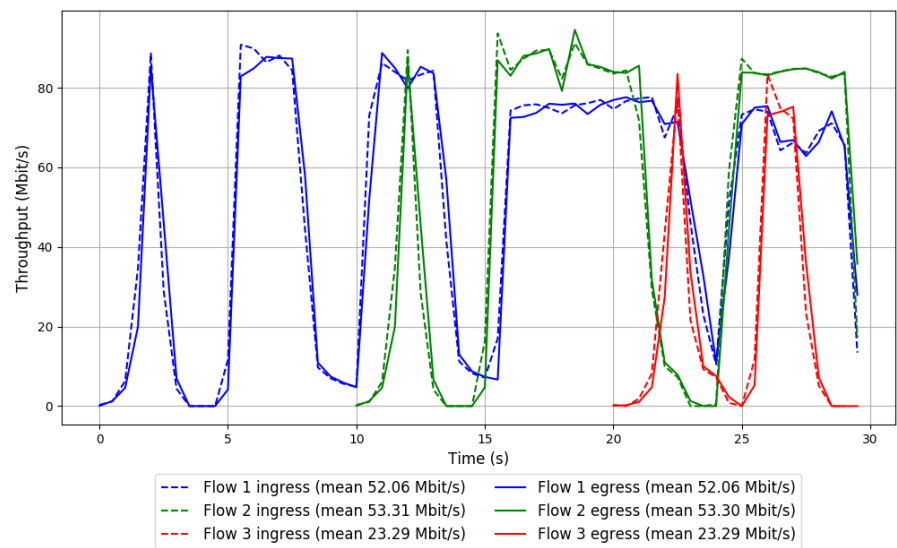
-- Flow 3:

Average throughput: 23.29 Mbit/s

95th percentile per-packet one-way delay: 111.485 ms

Loss rate: 0.00%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-01-02 19:50:45

End at: 2018-01-02 19:51:15

Below is generated by plot.py at 2018-01-02 22:00:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 83.68 Mbit/s

95th percentile per-packet one-way delay: 112.223 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 49.31 Mbit/s

95th percentile per-packet one-way delay: 112.246 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 32.11 Mbit/s

95th percentile per-packet one-way delay: 111.548 ms

Loss rate: 0.00%

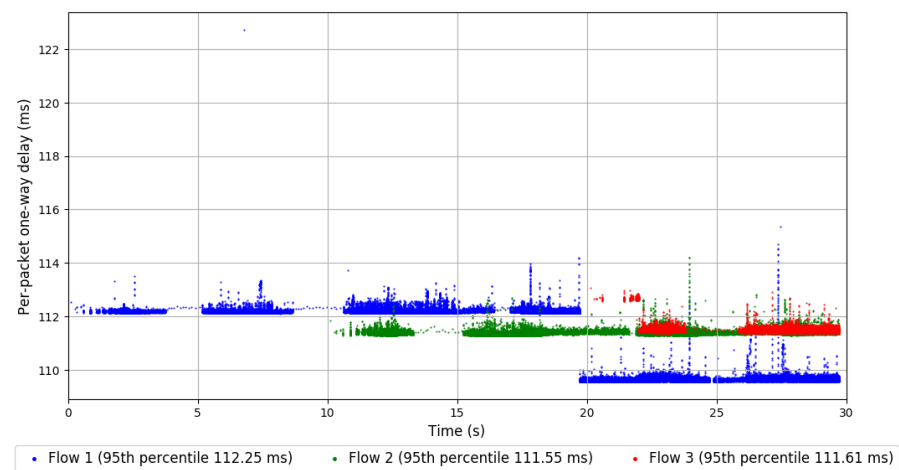
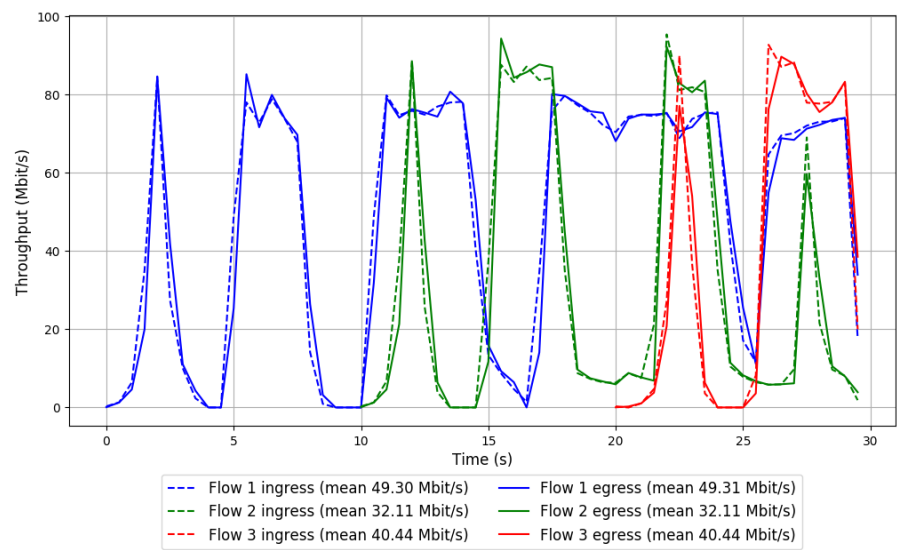
-- Flow 3:

Average throughput: 40.44 Mbit/s

95th percentile per-packet one-way delay: 111.612 ms

Loss rate: 0.01%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-01-02 20:06:00

End at: 2018-01-02 20:06:30

Below is generated by plot.py at 2018-01-02 22:00:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.70 Mbit/s

95th percentile per-packet one-way delay: 113.288 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 56.56 Mbit/s

95th percentile per-packet one-way delay: 111.584 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 40.81 Mbit/s

95th percentile per-packet one-way delay: 111.512 ms

Loss rate: 0.00%

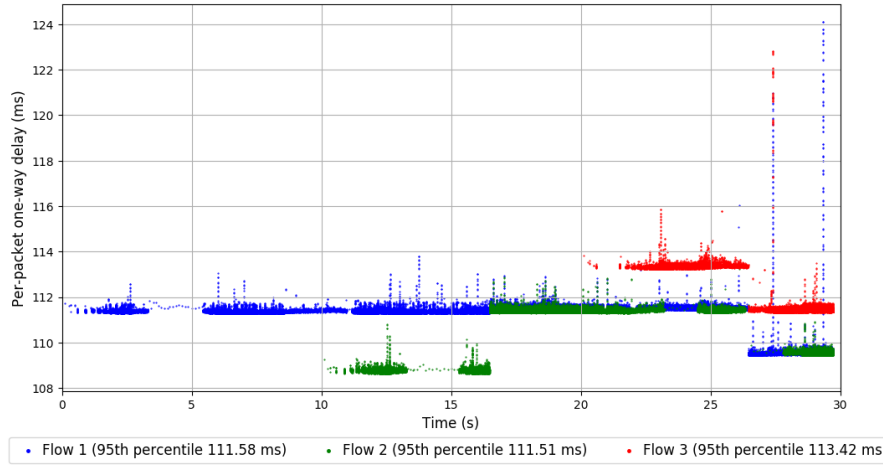
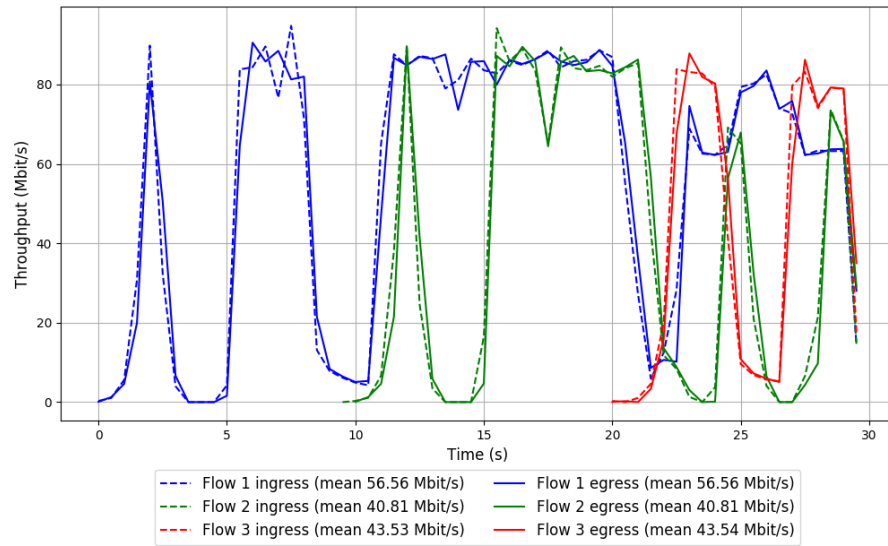
-- Flow 3:

Average throughput: 43.54 Mbit/s

95th percentile per-packet one-way delay: 113.420 ms

Loss rate: 0.00%

Run 9: Report of QUIC Cubic — Data Link

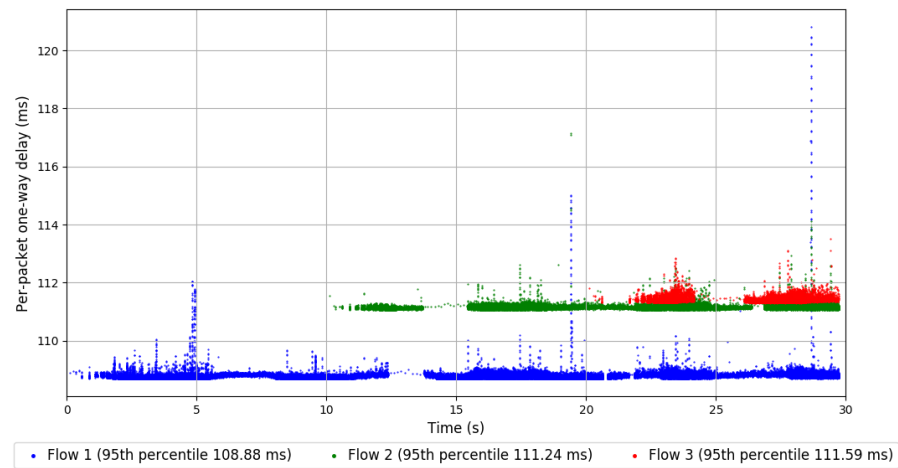
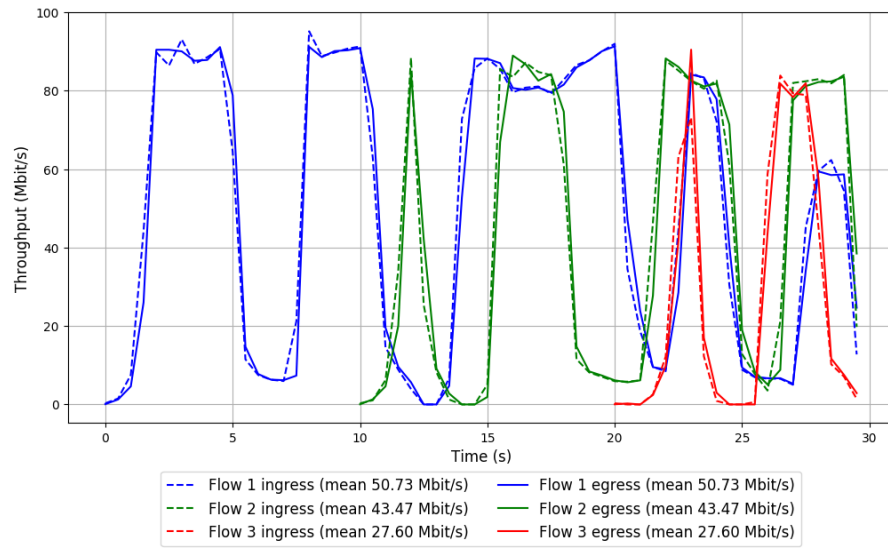


```
Run 10: Statistics of QUIC Cubic

Start at: 2018-01-02 20:21:30
End at: 2018-01-02 20:22:00

# Below is generated by plot.py at 2018-01-02 22:00:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 88.45 Mbit/s
95th percentile per-packet one-way delay: 111.381 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 50.73 Mbit/s
95th percentile per-packet one-way delay: 108.882 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 43.47 Mbit/s
95th percentile per-packet one-way delay: 111.238 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 27.60 Mbit/s
95th percentile per-packet one-way delay: 111.592 ms
Loss rate: 0.00%
```

Run 10: Report of QUIC Cubic — Data Link

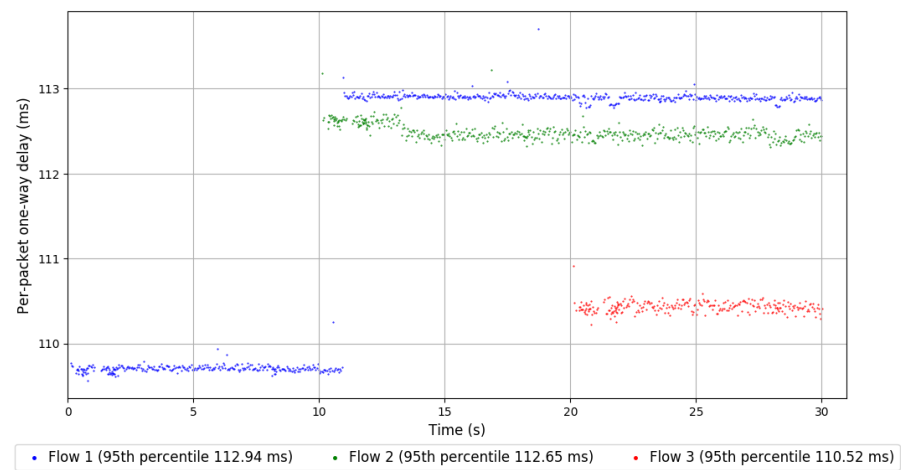
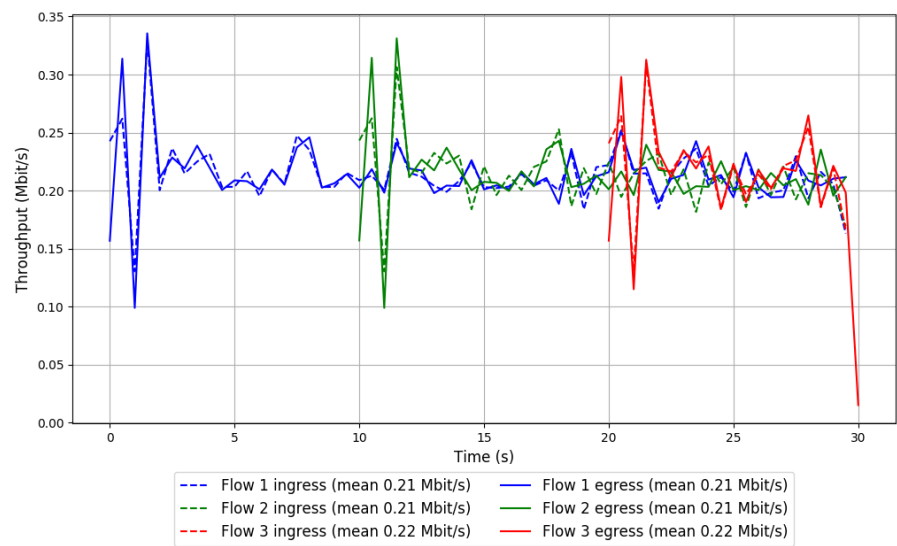


```
Run 1: Statistics of SCReAM

Start at: 2018-01-02 17:53:44
End at: 2018-01-02 17:54:14

# Below is generated by plot.py at 2018-01-02 22:00:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 112.924 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 112.937 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 112.651 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 110.518 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

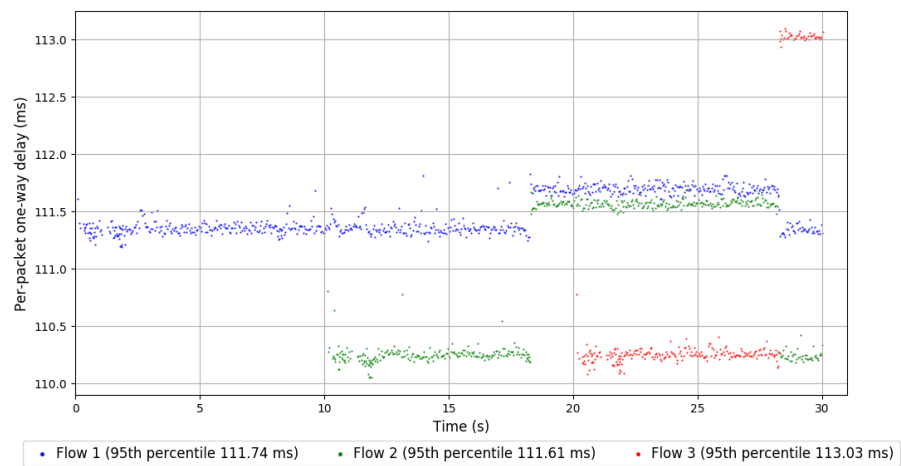
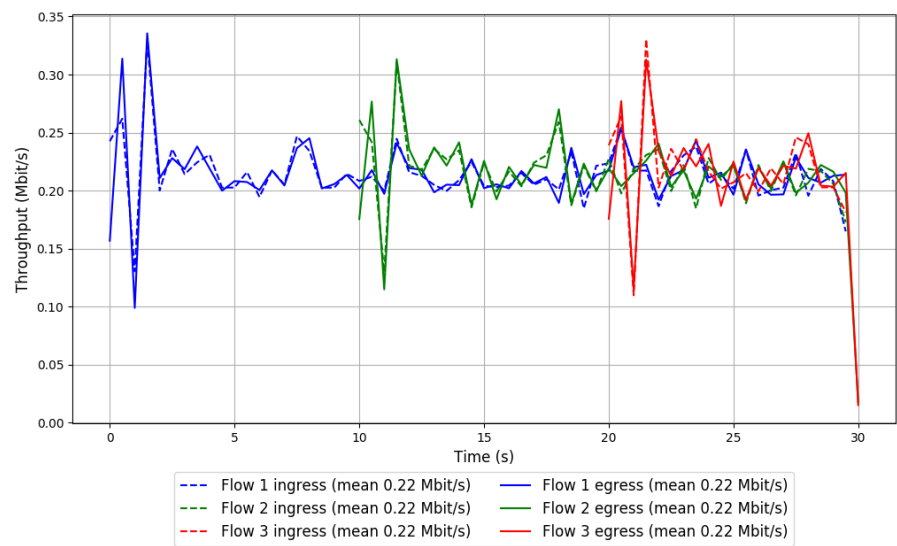


```
Run 2: Statistics of SReAM

Start at: 2018-01-02 18:09:07
End at: 2018-01-02 18:09:37

# Below is generated by plot.py at 2018-01-02 22:00:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 111.742 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 111.738 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 111.607 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 113.034 ms
Loss rate: 0.00%
```

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-01-02 18:24:43

End at: 2018-01-02 18:25:13

Below is generated by plot.py at 2018-01-02 22:00:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 111.755 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 111.726 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 113.052 ms

Loss rate: 0.00%

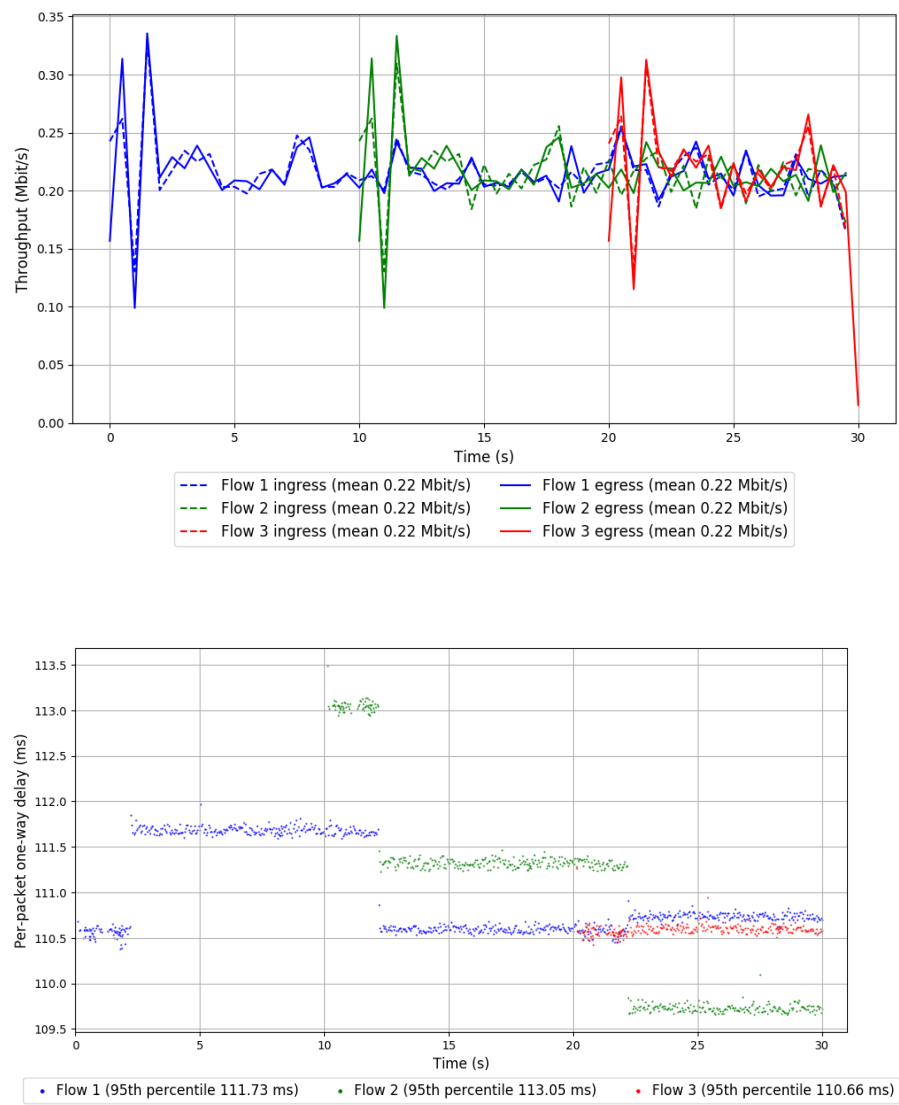
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 110.657 ms

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link

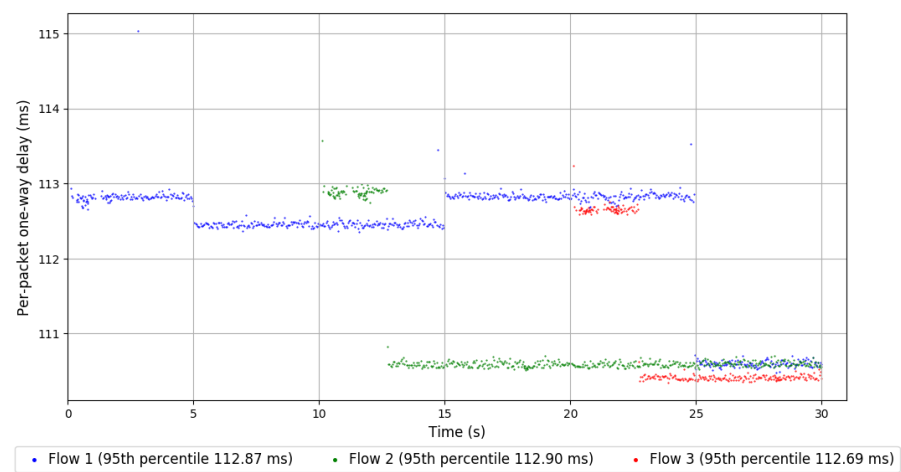
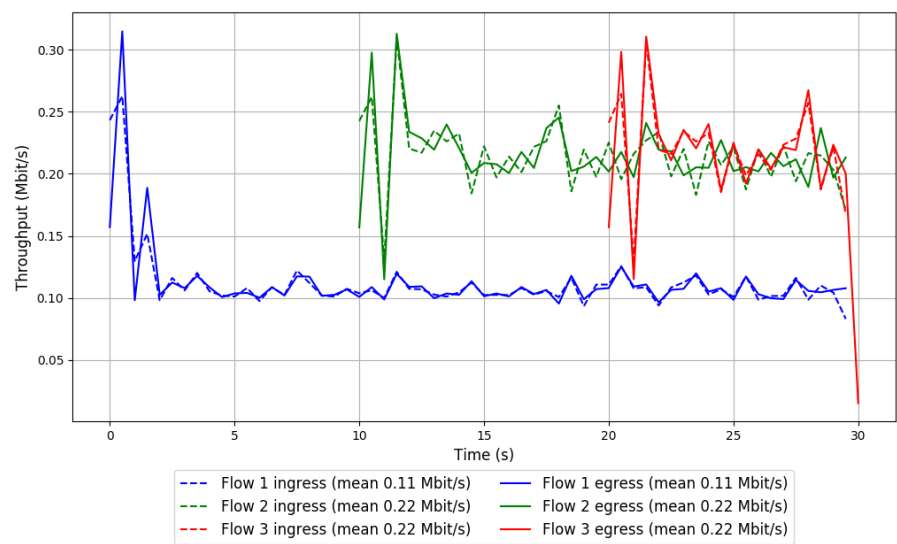


```
Run 4: Statistics of SCReAM

Start at: 2018-01-02 18:40:12
End at: 2018-01-02 18:40:42

# Below is generated by plot.py at 2018-01-02 22:00:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.33 Mbit/s
95th percentile per-packet one-way delay: 112.879 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.11 Mbit/s
95th percentile per-packet one-way delay: 112.872 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 112.904 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 112.686 ms
Loss rate: 0.00%
```

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SReAM

Start at: 2018-01-02 18:55:41

End at: 2018-01-02 18:56:11

Below is generated by plot.py at 2018-01-02 22:00:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 112.794 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 110.944 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 112.681 ms

Loss rate: 0.00%

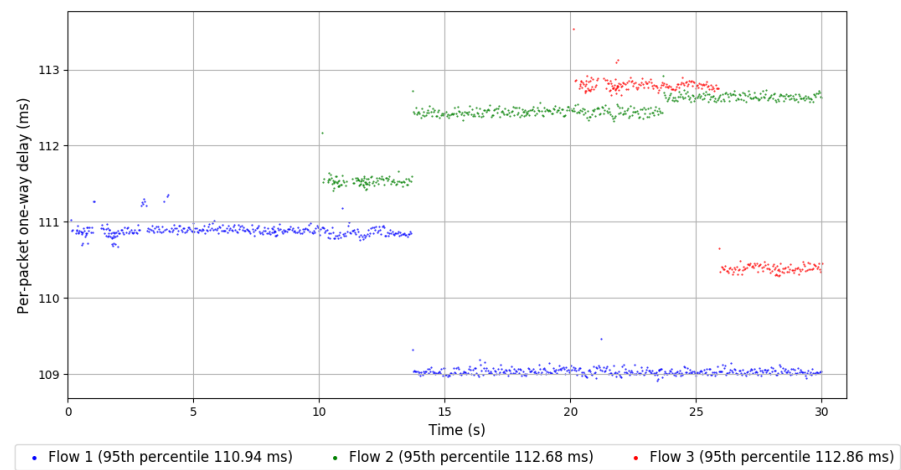
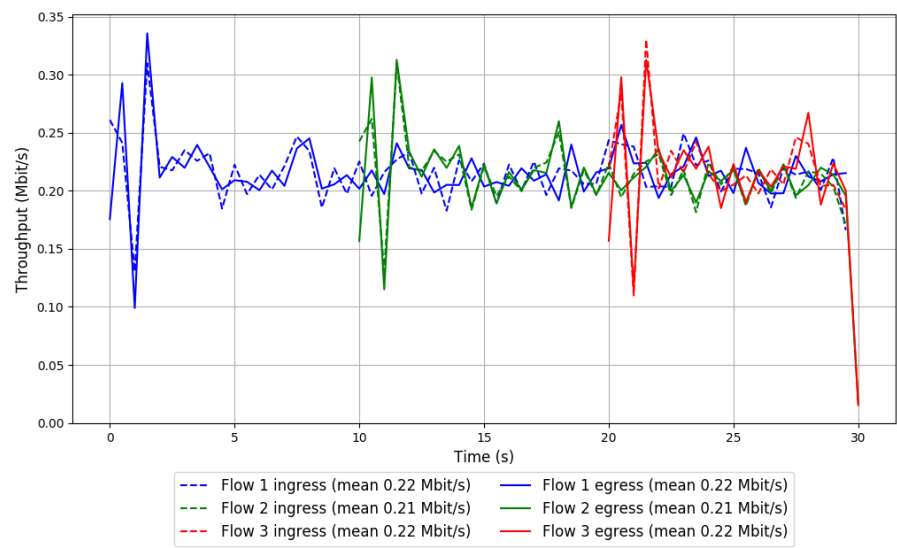
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 112.865 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-01-02 19:11:11

End at: 2018-01-02 19:11:41

Below is generated by plot.py at 2018-01-02 22:00:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 112.570 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 110.306 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 112.408 ms

Loss rate: 0.00%

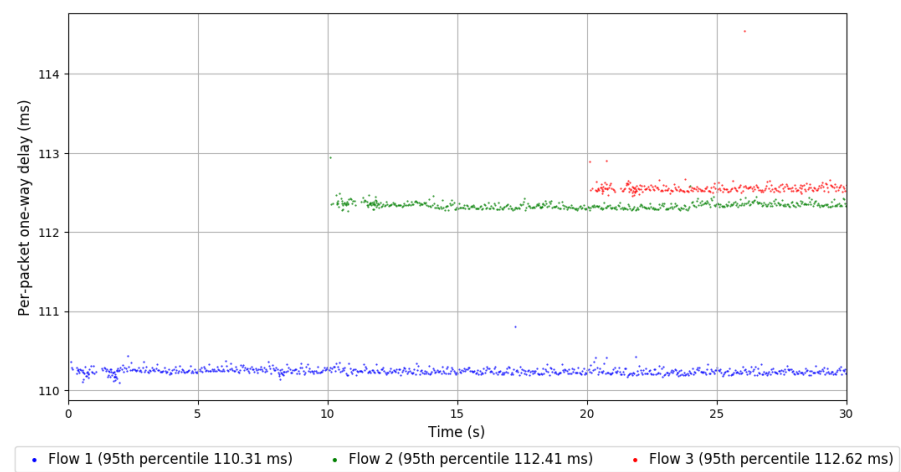
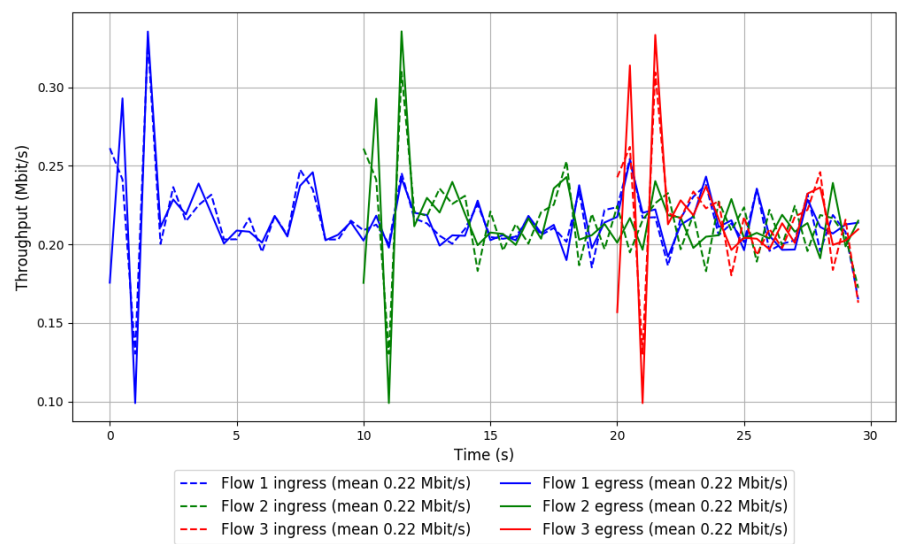
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 112.623 ms

Loss rate: 0.00%

Run 6: Report of SReAM — Data Link

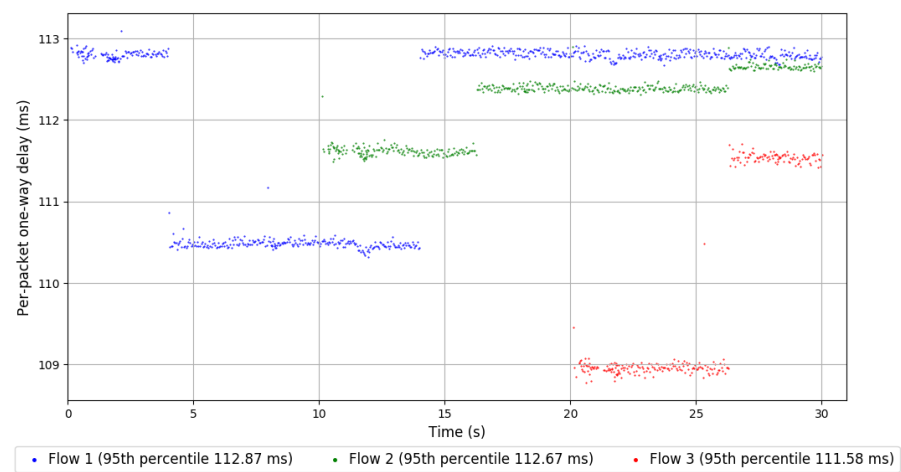
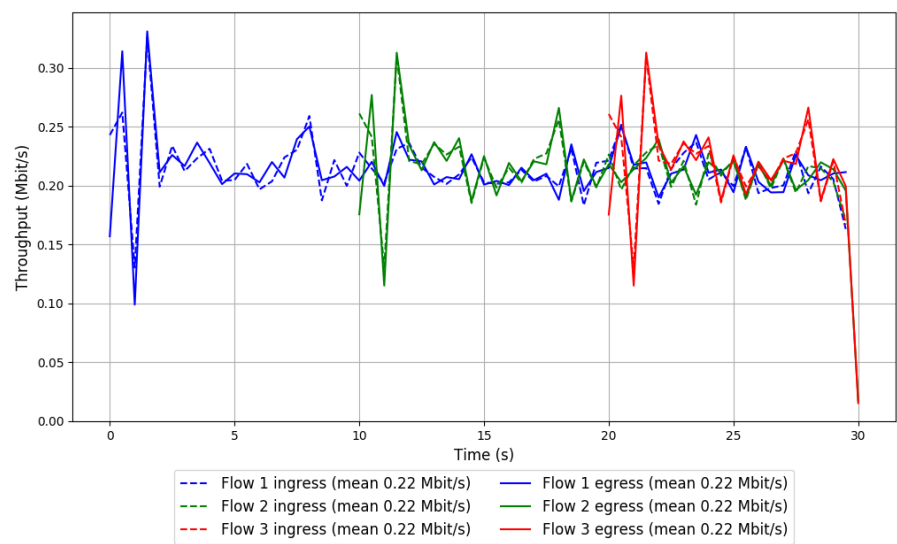


```
Run 7: Statistics of SCReAM

Start at: 2018-01-02 19:26:51
End at: 2018-01-02 19:27:21

# Below is generated by plot.py at 2018-01-02 22:00:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 112.857 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 112.872 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 112.665 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 111.585 ms
Loss rate: 0.00%
```


Run 7: Report of SReAM — Data Link



Run 8: Statistics of SReAM

Start at: 2018-01-02 19:42:07

End at: 2018-01-02 19:42:37

Below is generated by plot.py at 2018-01-02 22:00:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 110.822 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 110.842 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 110.527 ms

Loss rate: 0.00%

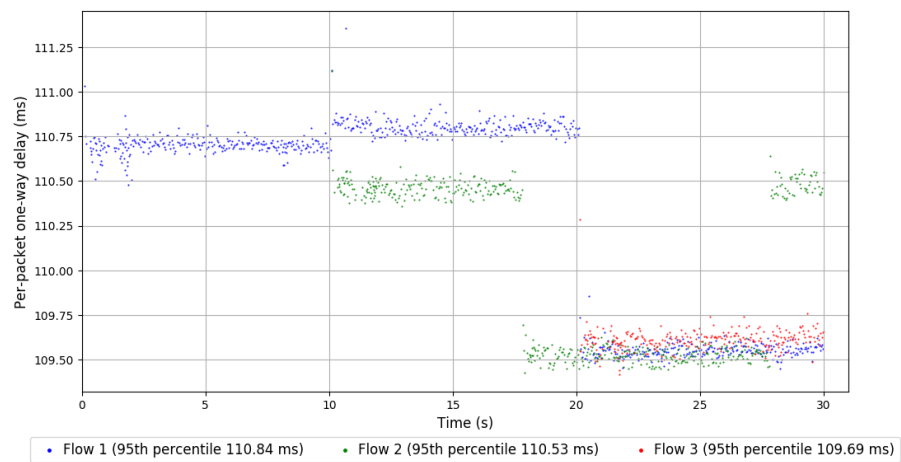
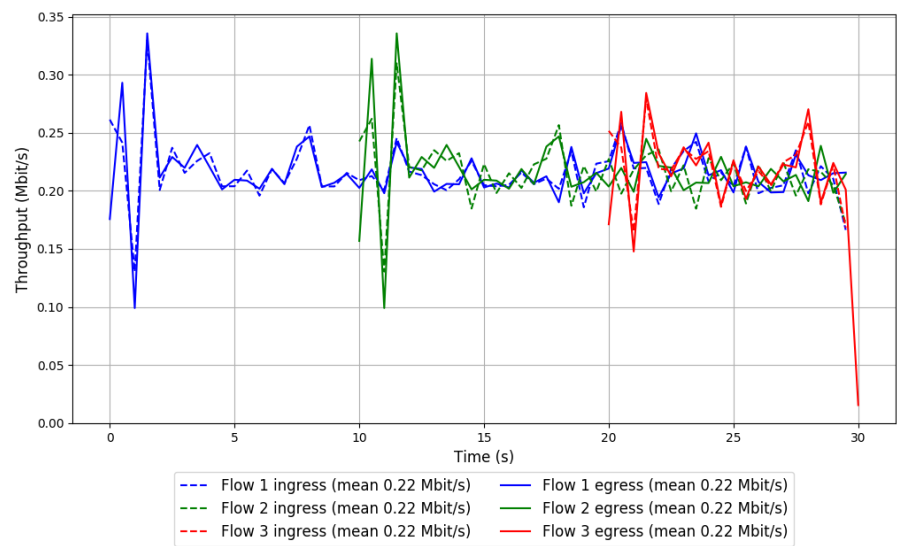
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 109.687 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-01-02 19:57:26

End at: 2018-01-02 19:57:56

Below is generated by plot.py at 2018-01-02 22:00:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 111.628 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 111.651 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 110.619 ms

Loss rate: 0.00%

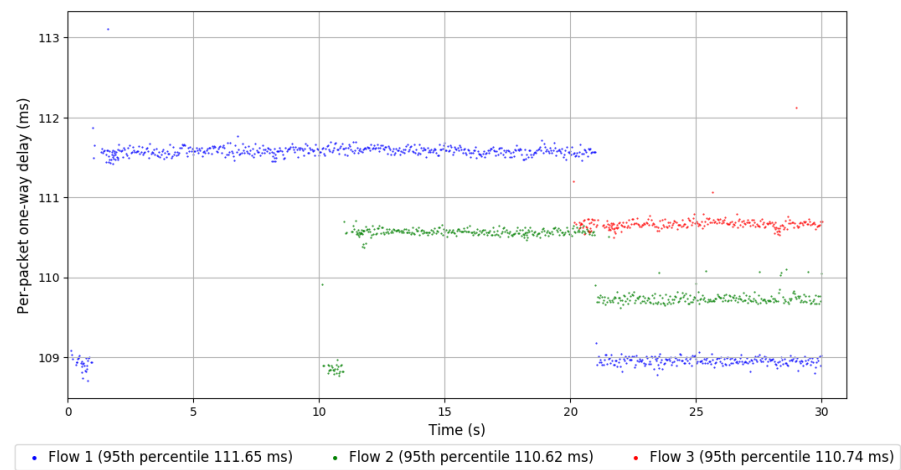
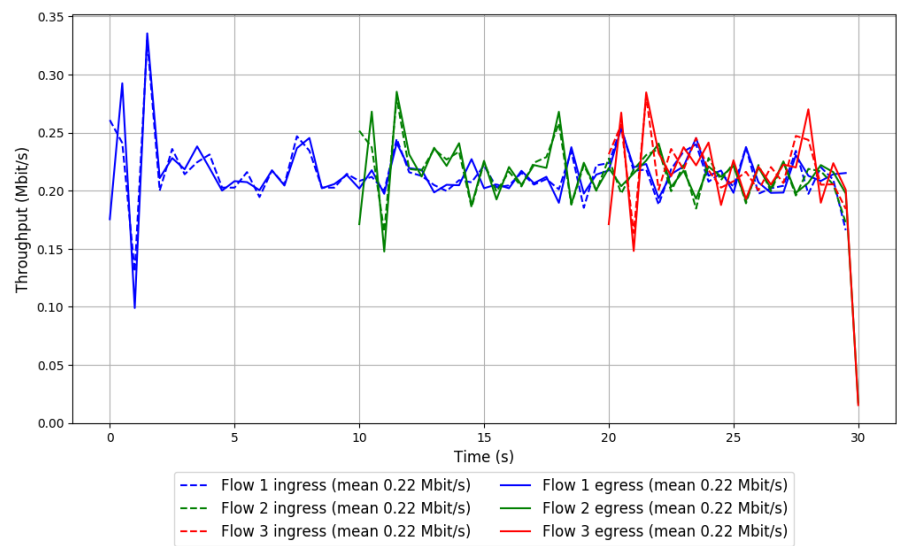
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 110.736 ms

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link

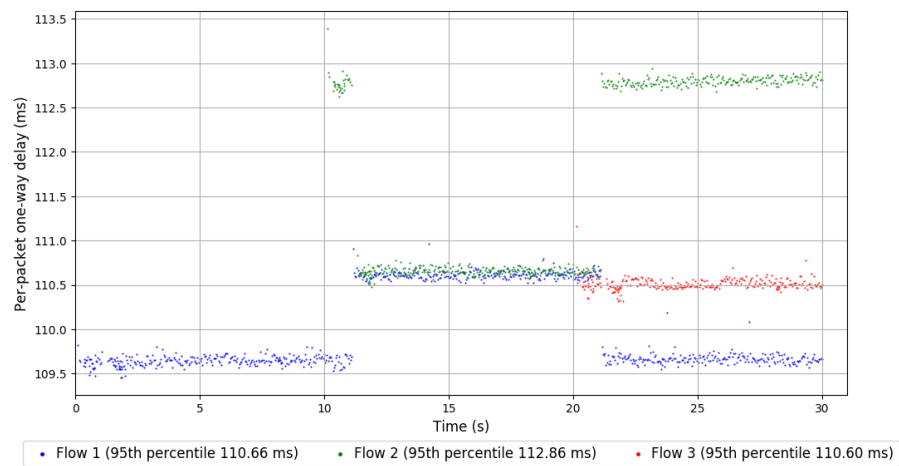
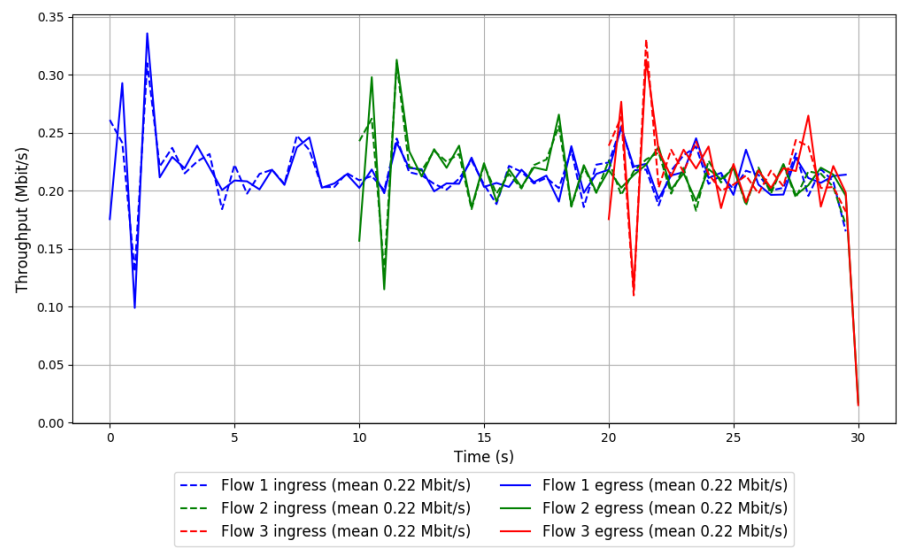


```
Run 10: Statistics of SCReAM

Start at: 2018-01-02 20:12:44
End at: 2018-01-02 20:13:14

# Below is generated by plot.py at 2018-01-02 22:00:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 112.820 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 110.658 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 112.855 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 110.600 ms
Loss rate: 0.00%
```

Run 10: Report of SReAM — Data Link

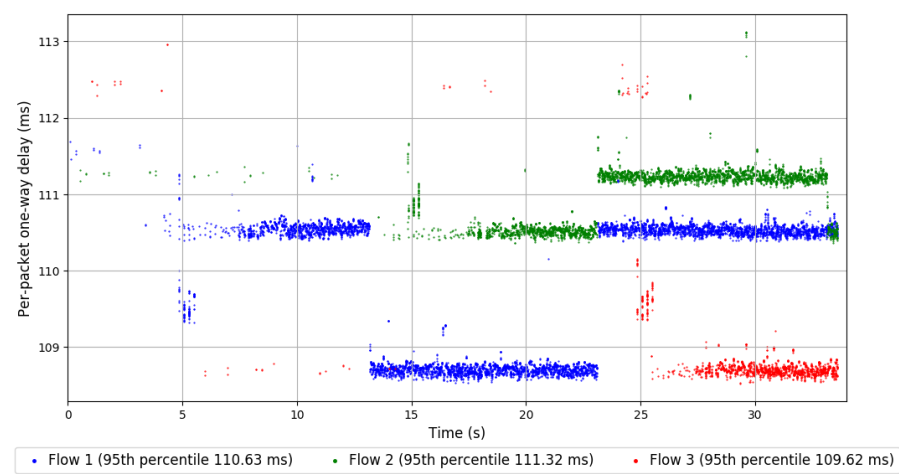
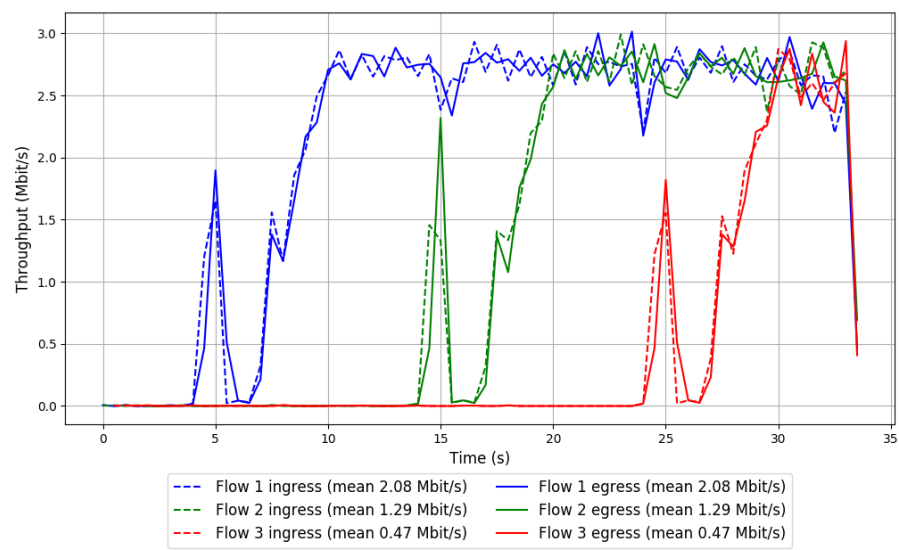


```
Run 1: Statistics of WebRTC media

Start at: 2018-01-02 18:05:15
End at: 2018-01-02 18:05:45

# Below is generated by plot.py at 2018-01-02 22:00:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.82 Mbit/s
95th percentile per-packet one-way delay: 111.282 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.08 Mbit/s
95th percentile per-packet one-way delay: 110.628 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.29 Mbit/s
95th percentile per-packet one-way delay: 111.324 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.47 Mbit/s
95th percentile per-packet one-way delay: 109.624 ms
Loss rate: 0.00%
```


Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-01-02 18:20:38

End at: 2018-01-02 18:21:08

Below is generated by plot.py at 2018-01-02 22:00:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.81 Mbit/s

95th percentile per-packet one-way delay: 113.663 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 2.08 Mbit/s

95th percentile per-packet one-way delay: 113.685 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 1.29 Mbit/s

95th percentile per-packet one-way delay: 109.868 ms

Loss rate: 0.00%

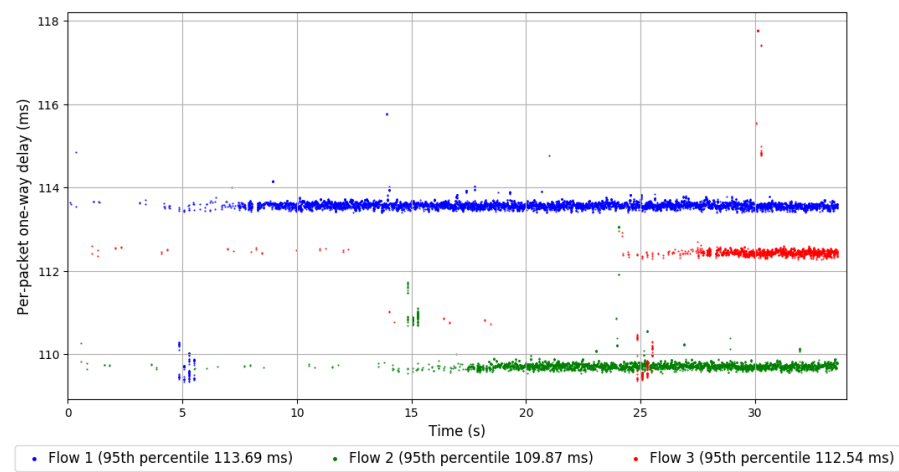
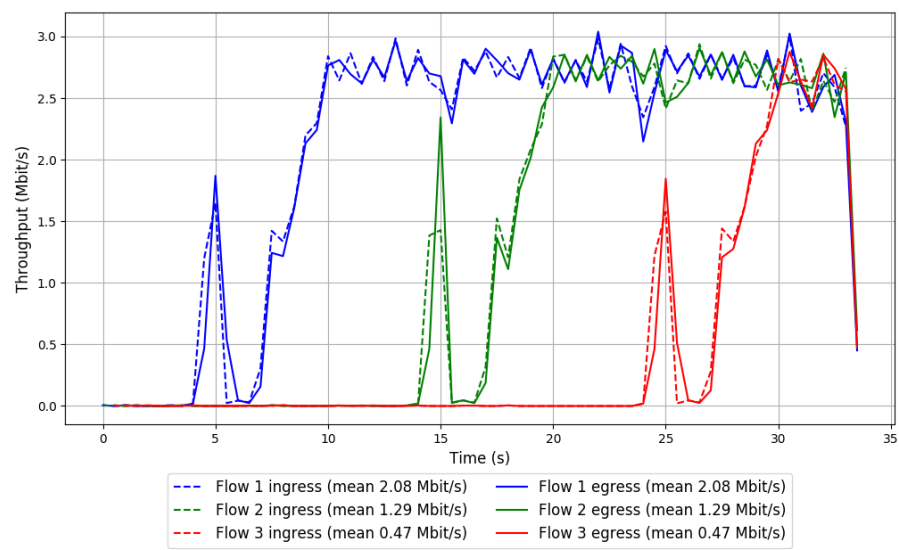
-- Flow 3:

Average throughput: 0.47 Mbit/s

95th percentile per-packet one-way delay: 112.538 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-01-02 18:36:08

End at: 2018-01-02 18:36:38

Below is generated by plot.py at 2018-01-02 22:00:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.83 Mbit/s

95th percentile per-packet one-way delay: 112.807 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 2.09 Mbit/s

95th percentile per-packet one-way delay: 112.814 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 1.30 Mbit/s

95th percentile per-packet one-way delay: 111.518 ms

Loss rate: 0.00%

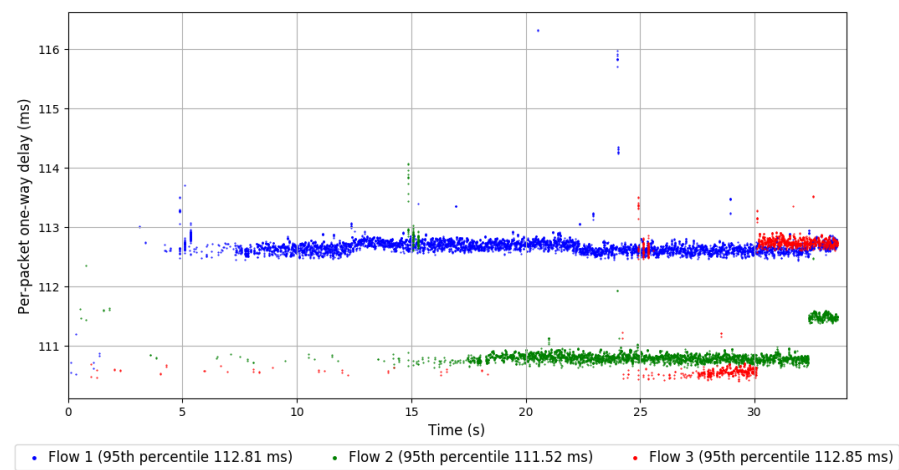
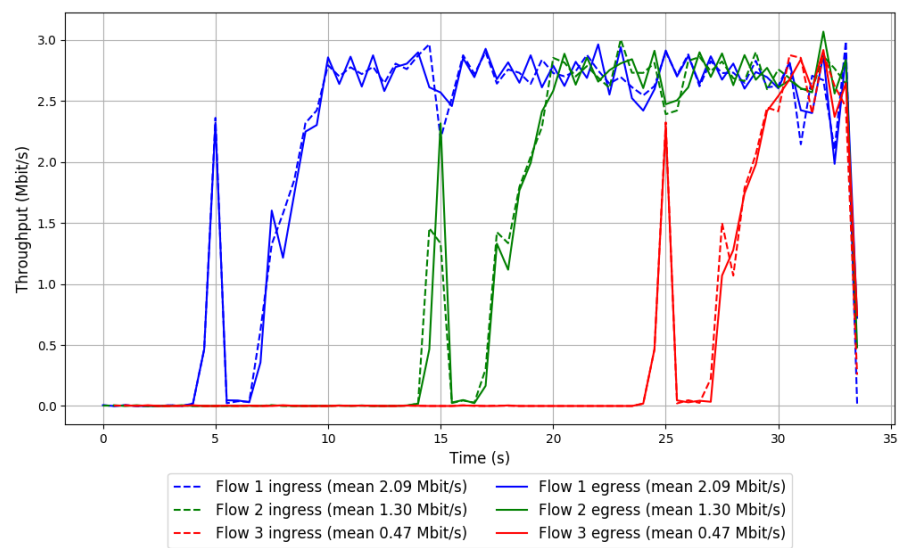
-- Flow 3:

Average throughput: 0.47 Mbit/s

95th percentile per-packet one-way delay: 112.848 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-01-02 18:51:39

End at: 2018-01-02 18:52:09

Below is generated by plot.py at 2018-01-02 22:00:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.79 Mbit/s

95th percentile per-packet one-way delay: 112.892 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.08 Mbit/s

95th percentile per-packet one-way delay: 112.917 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.27 Mbit/s

95th percentile per-packet one-way delay: 112.396 ms

Loss rate: 0.00%

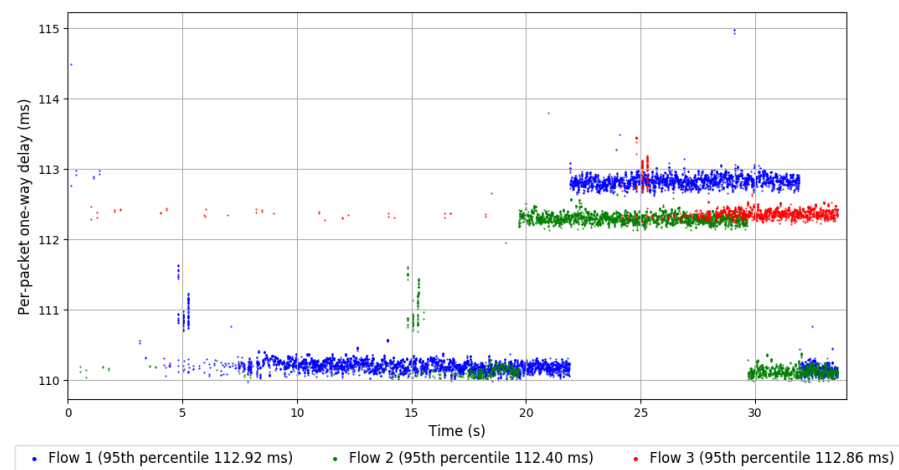
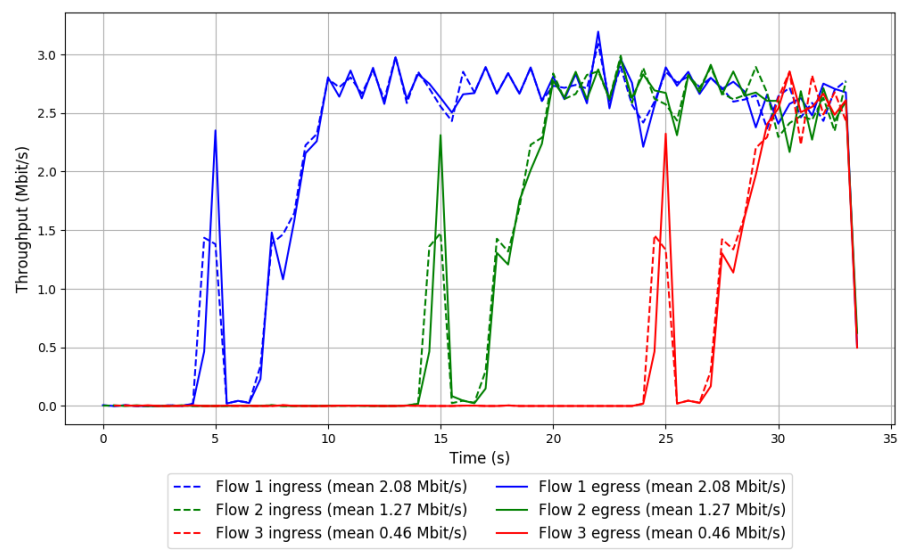
-- Flow 3:

Average throughput: 0.46 Mbit/s

95th percentile per-packet one-way delay: 112.859 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-01-02 19:07:16

End at: 2018-01-02 19:07:46

Below is generated by plot.py at 2018-01-02 22:00:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.91 Mbit/s

95th percentile per-packet one-way delay: 112.463 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 112.482 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.30 Mbit/s

95th percentile per-packet one-way delay: 112.382 ms

Loss rate: 0.00%

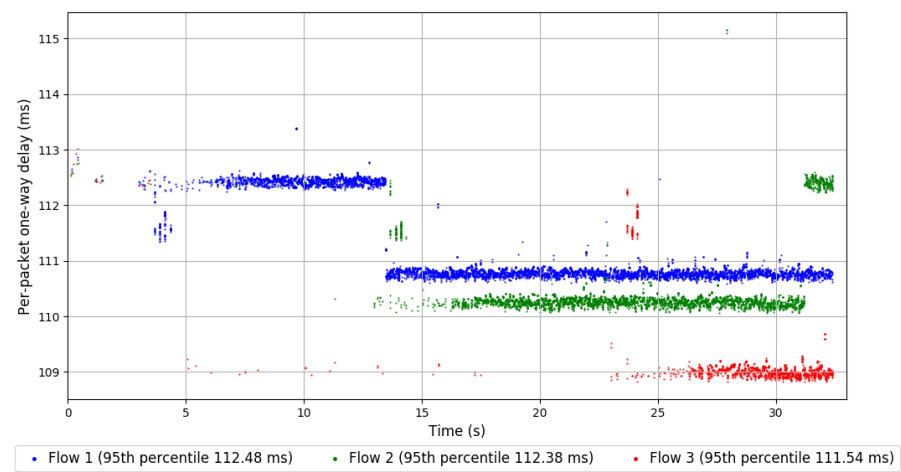
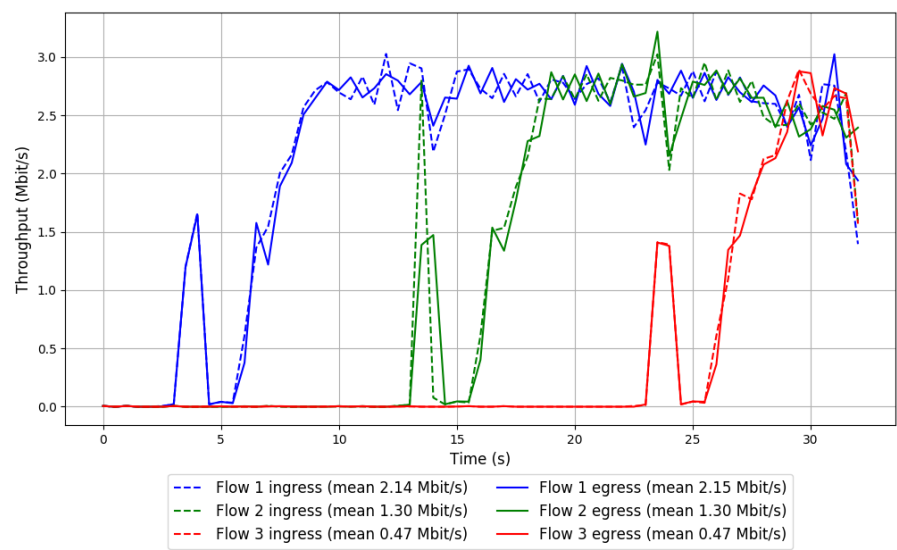
-- Flow 3:

Average throughput: 0.47 Mbit/s

95th percentile per-packet one-way delay: 111.543 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-01-02 19:22:43

End at: 2018-01-02 19:23:13

Below is generated by plot.py at 2018-01-02 22:00:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.76 Mbit/s

95th percentile per-packet one-way delay: 112.599 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.07 Mbit/s

95th percentile per-packet one-way delay: 112.580 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.26 Mbit/s

95th percentile per-packet one-way delay: 112.641 ms

Loss rate: 0.00%

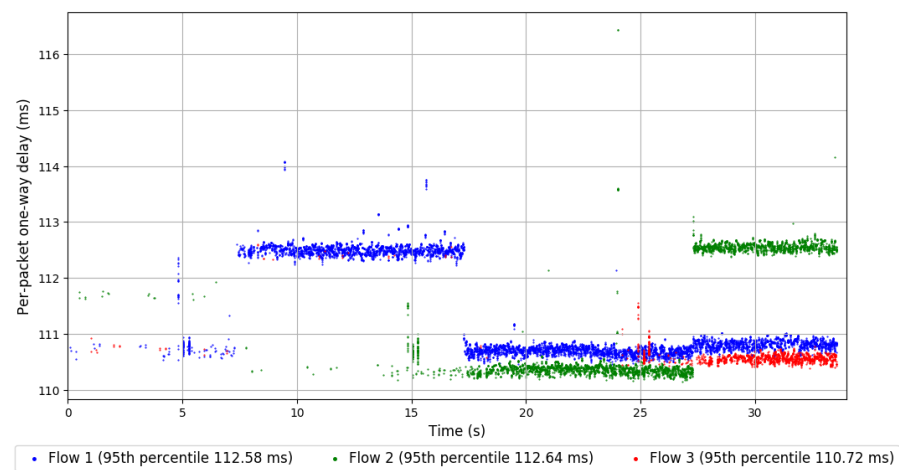
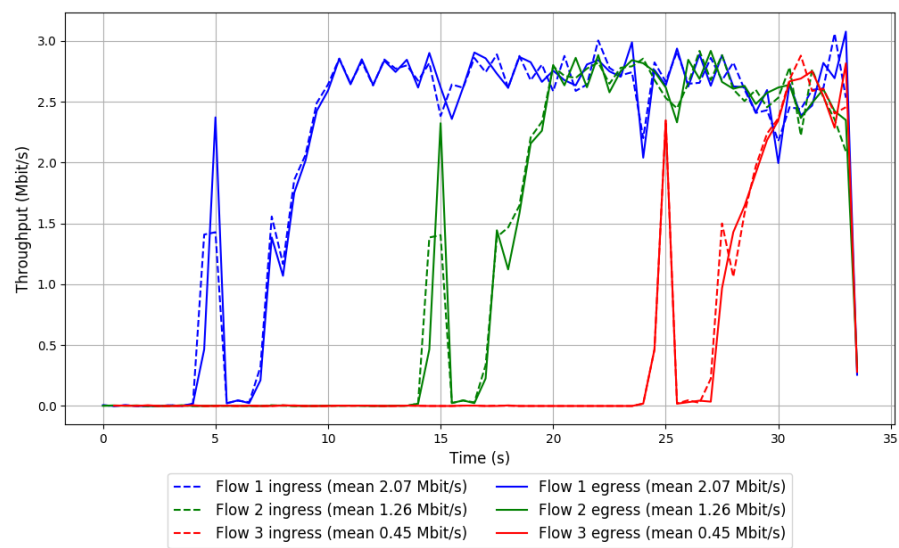
-- Flow 3:

Average throughput: 0.45 Mbit/s

95th percentile per-packet one-way delay: 110.721 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-01-02 19:38:18

End at: 2018-01-02 19:38:48

Below is generated by plot.py at 2018-01-02 22:00:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.78 Mbit/s

95th percentile per-packet one-way delay: 112.908 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.07 Mbit/s

95th percentile per-packet one-way delay: 112.801 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.28 Mbit/s

95th percentile per-packet one-way delay: 111.745 ms

Loss rate: 0.00%

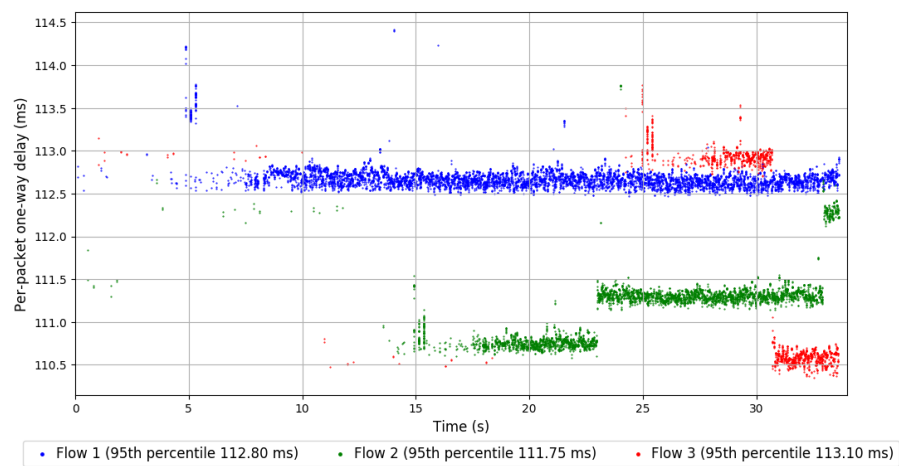
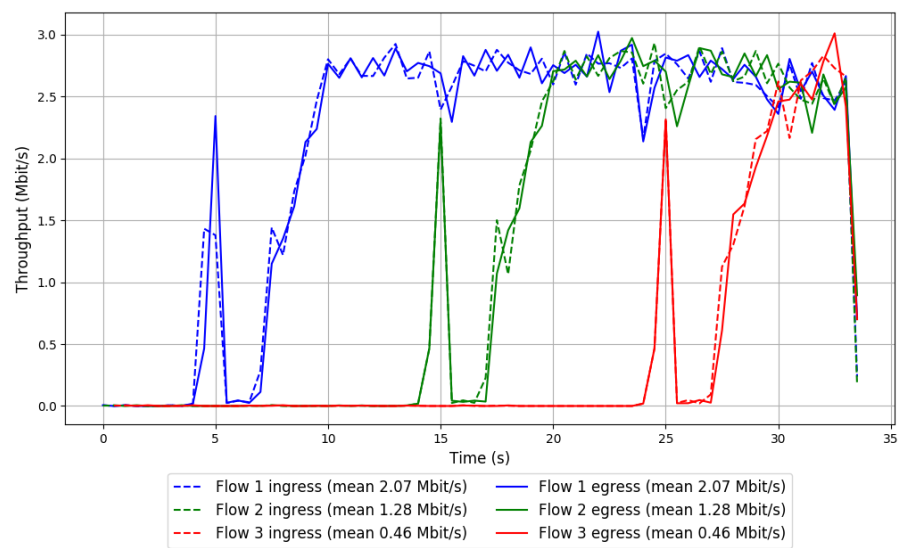
-- Flow 3:

Average throughput: 0.46 Mbit/s

95th percentile per-packet one-way delay: 113.096 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-01-02 19:53:31

End at: 2018-01-02 19:54:01

Below is generated by plot.py at 2018-01-02 22:00:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.78 Mbit/s

95th percentile per-packet one-way delay: 111.574 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.08 Mbit/s

95th percentile per-packet one-way delay: 110.568 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.27 Mbit/s

95th percentile per-packet one-way delay: 111.606 ms

Loss rate: 0.00%

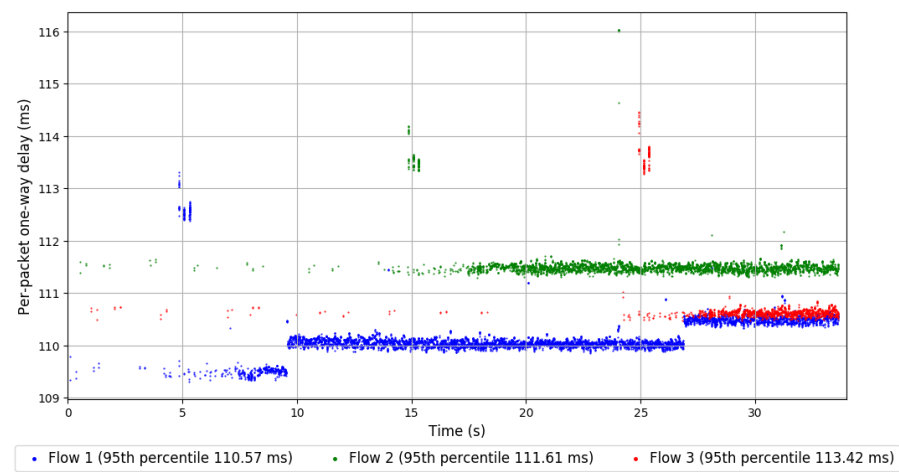
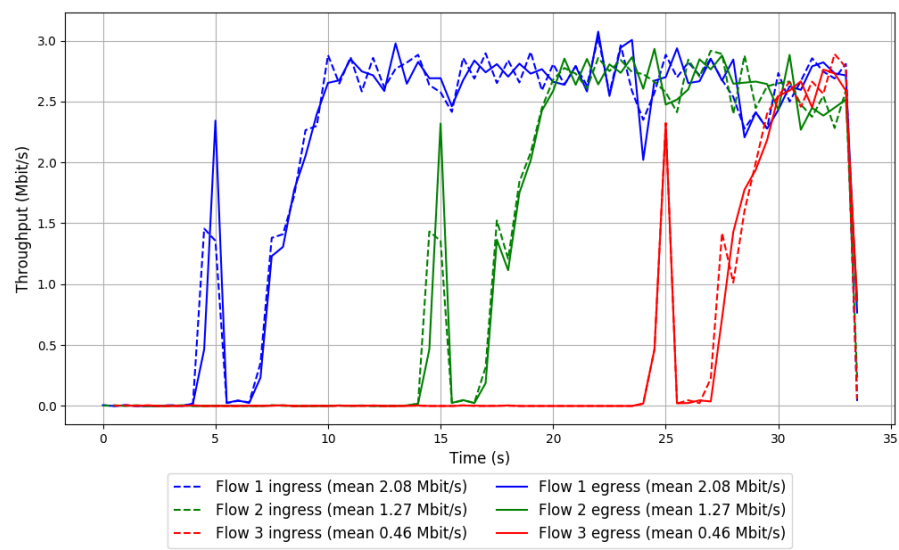
-- Flow 3:

Average throughput: 0.46 Mbit/s

95th percentile per-packet one-way delay: 113.424 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-01-02 20:08:48

End at: 2018-01-02 20:09:18

Below is generated by plot.py at 2018-01-02 22:00:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.79 Mbit/s

95th percentile per-packet one-way delay: 112.410 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.07 Mbit/s

95th percentile per-packet one-way delay: 110.712 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.28 Mbit/s

95th percentile per-packet one-way delay: 112.413 ms

Loss rate: 0.00%

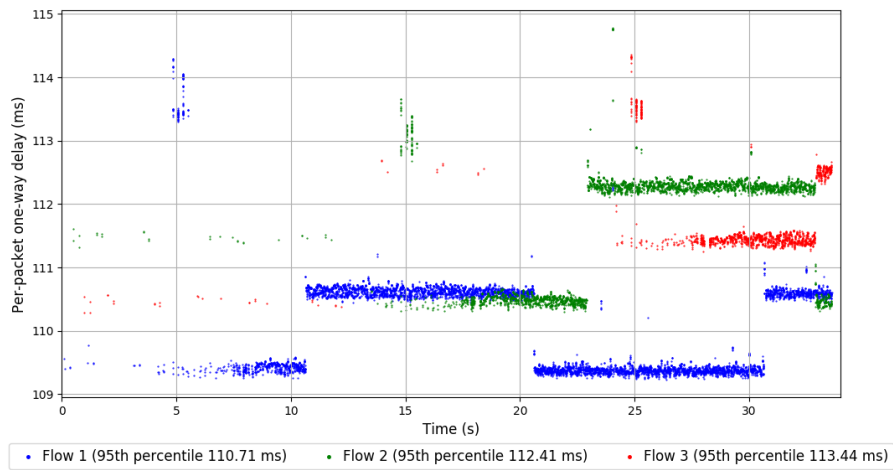
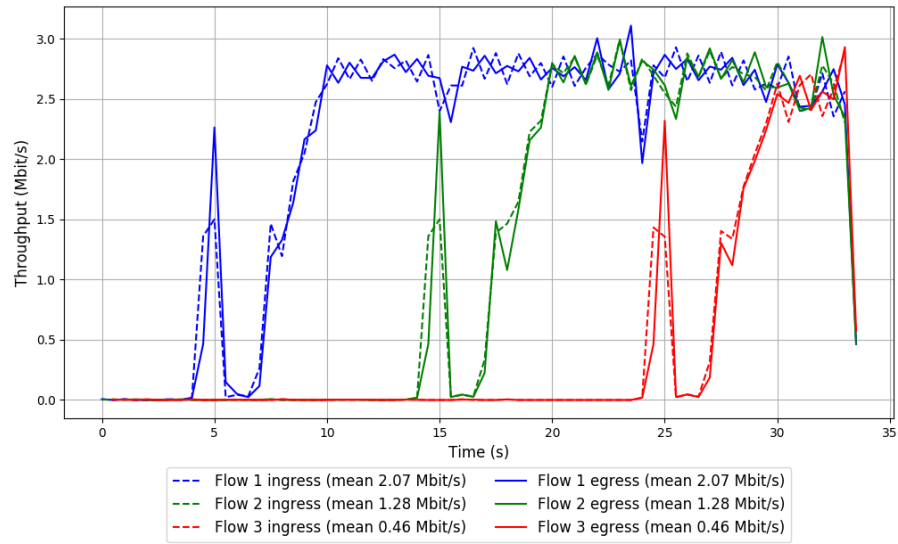
-- Flow 3:

Average throughput: 0.46 Mbit/s

95th percentile per-packet one-way delay: 113.441 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-01-02 20:24:14

End at: 2018-01-02 20:24:44

Below is generated by plot.py at 2018-01-02 22:00:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.79 Mbit/s

95th percentile per-packet one-way delay: 112.388 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.08 Mbit/s

95th percentile per-packet one-way delay: 110.551 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.28 Mbit/s

95th percentile per-packet one-way delay: 109.799 ms

Loss rate: 0.00%

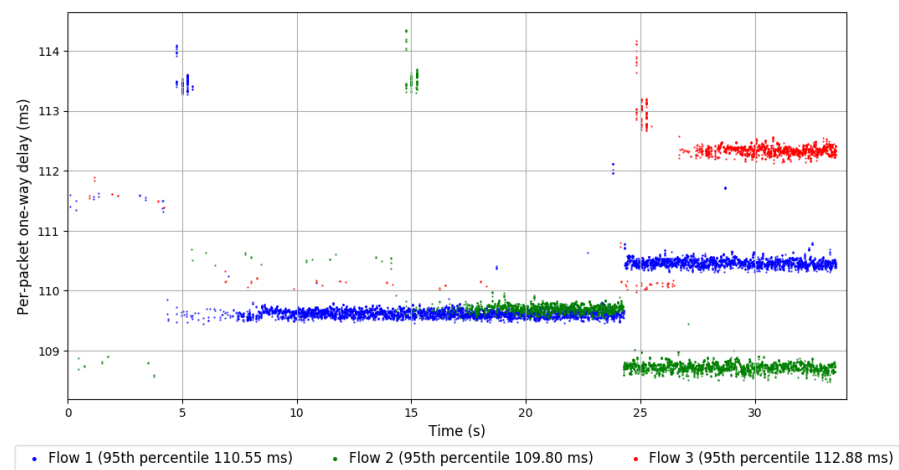
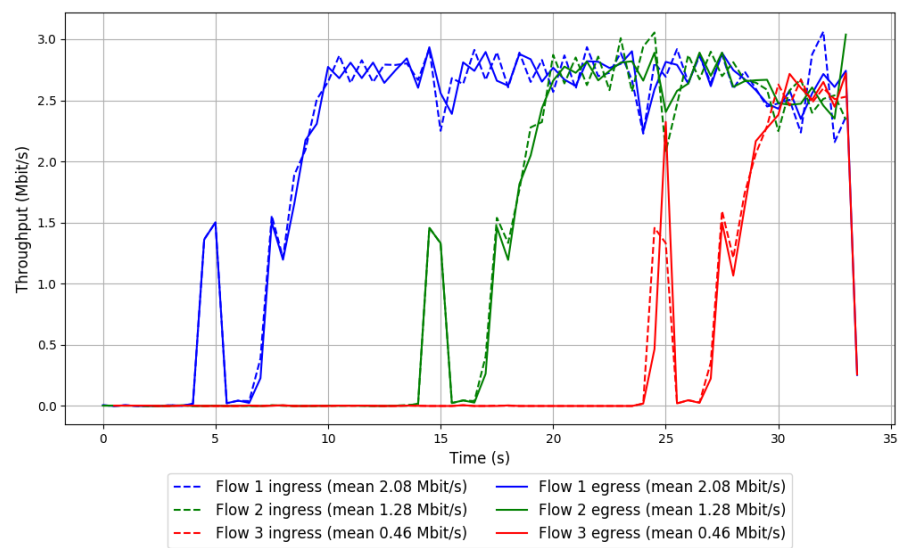
-- Flow 3:

Average throughput: 0.46 Mbit/s

95th percentile per-packet one-way delay: 112.878 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

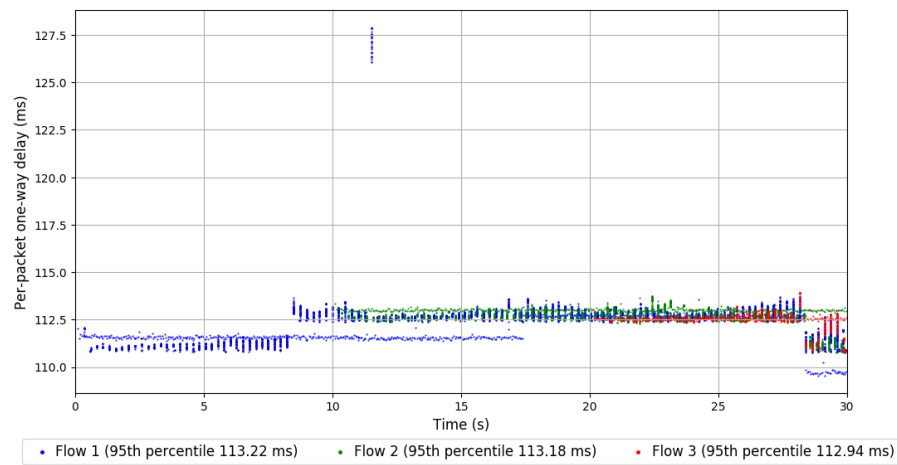
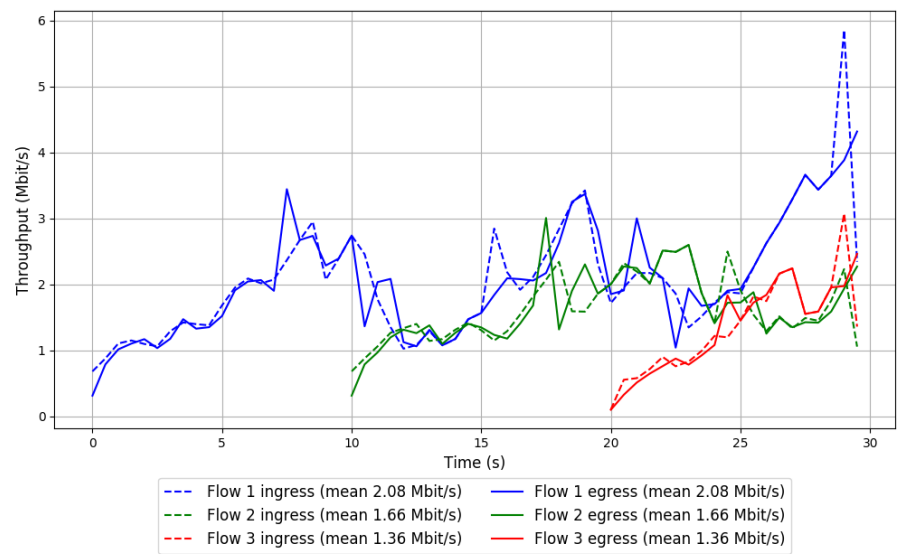


```
Run 1: Statistics of Sprout

Start at: 2018-01-02 17:58:16
End at: 2018-01-02 17:58:46

# Below is generated by plot.py at 2018-01-02 22:00:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.63 Mbit/s
95th percentile per-packet one-way delay: 113.188 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.08 Mbit/s
95th percentile per-packet one-way delay: 113.217 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.66 Mbit/s
95th percentile per-packet one-way delay: 113.178 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 1.36 Mbit/s
95th percentile per-packet one-way delay: 112.941 ms
Loss rate: 0.00%
```

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-01-02 18:13:40

End at: 2018-01-02 18:14:10

Below is generated by plot.py at 2018-01-02 22:00:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.21 Mbit/s

95th percentile per-packet one-way delay: 112.938 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 2.36 Mbit/s

95th percentile per-packet one-way delay: 113.034 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.74 Mbit/s

95th percentile per-packet one-way delay: 112.787 ms

Loss rate: 0.00%

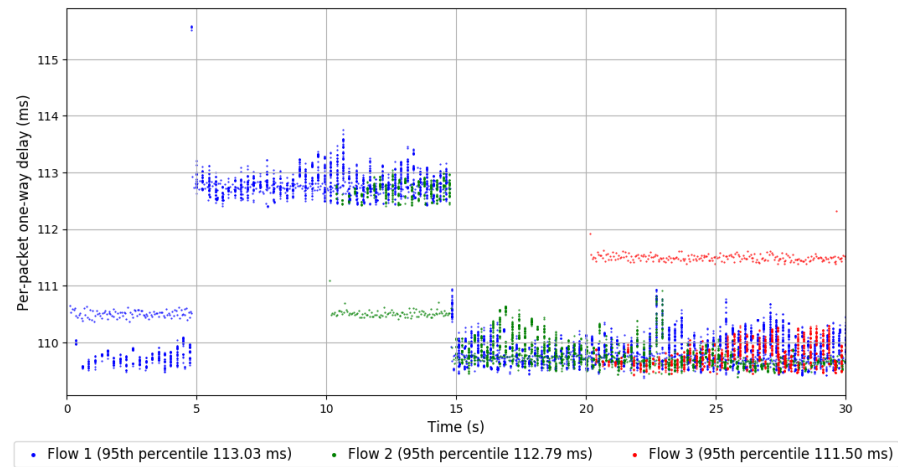
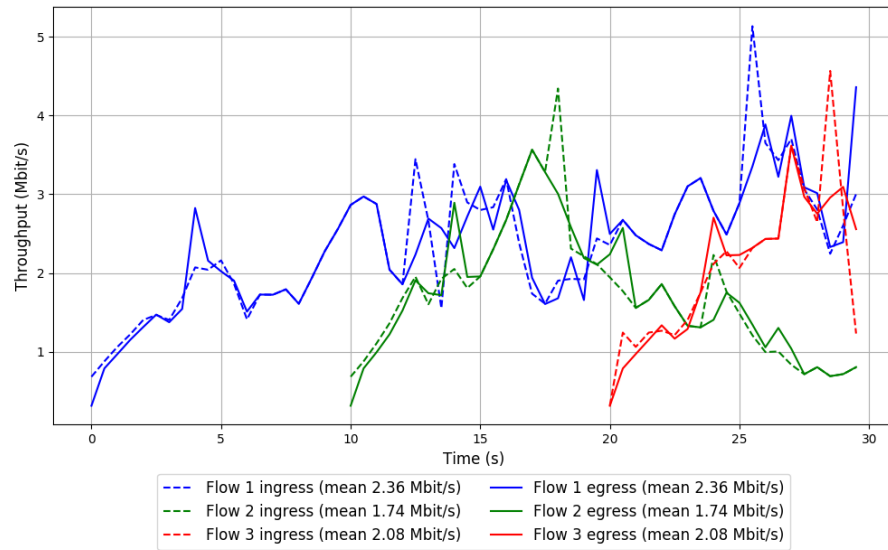
-- Flow 3:

Average throughput: 2.08 Mbit/s

95th percentile per-packet one-way delay: 111.501 ms

Loss rate: 0.06%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-01-02 18:29:19

End at: 2018-01-02 18:29:49

Below is generated by plot.py at 2018-01-02 22:00:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 5.57 Mbit/s

95th percentile per-packet one-way delay: 113.702 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.94 Mbit/s

95th percentile per-packet one-way delay: 113.693 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 2.81 Mbit/s

95th percentile per-packet one-way delay: 113.738 ms

Loss rate: 0.00%

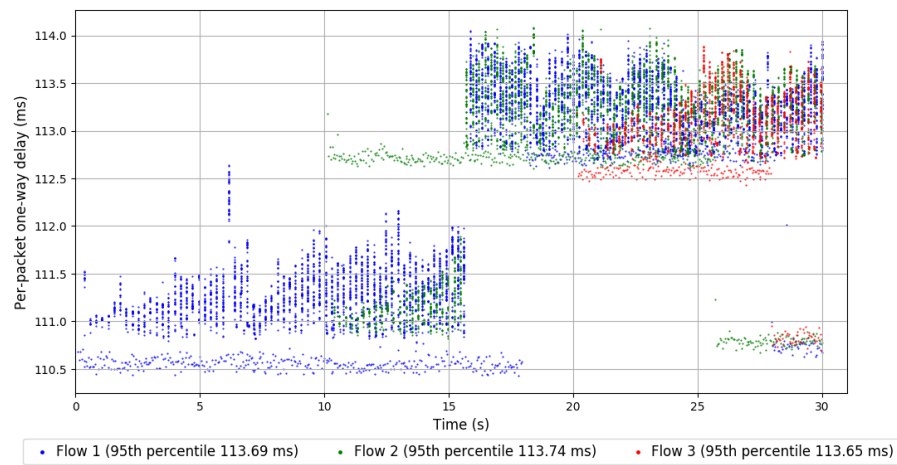
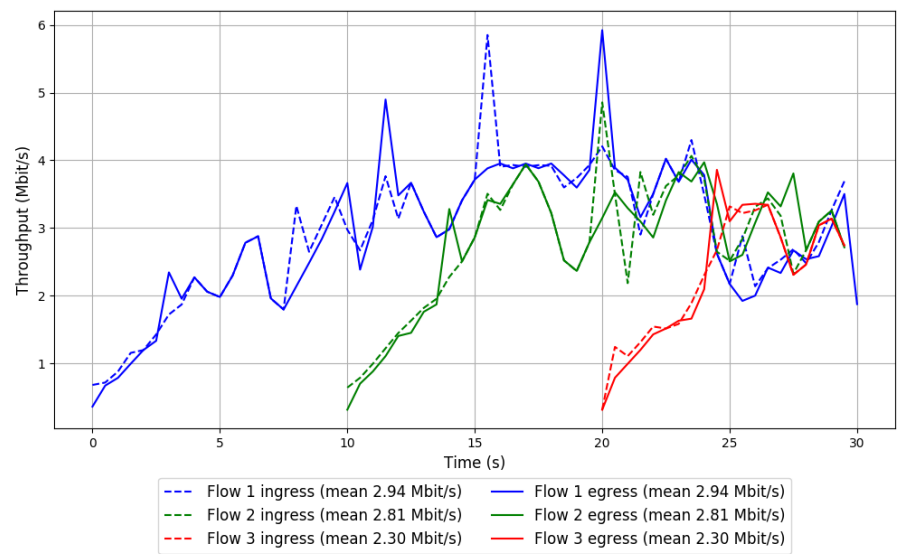
-- Flow 3:

Average throughput: 2.30 Mbit/s

95th percentile per-packet one-way delay: 113.653 ms

Loss rate: 0.00%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-01-02 18:44:45

End at: 2018-01-02 18:45:15

Below is generated by plot.py at 2018-01-02 22:00:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.87 Mbit/s

95th percentile per-packet one-way delay: 113.777 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.45 Mbit/s

95th percentile per-packet one-way delay: 113.750 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 2.84 Mbit/s

95th percentile per-packet one-way delay: 113.821 ms

Loss rate: 0.00%

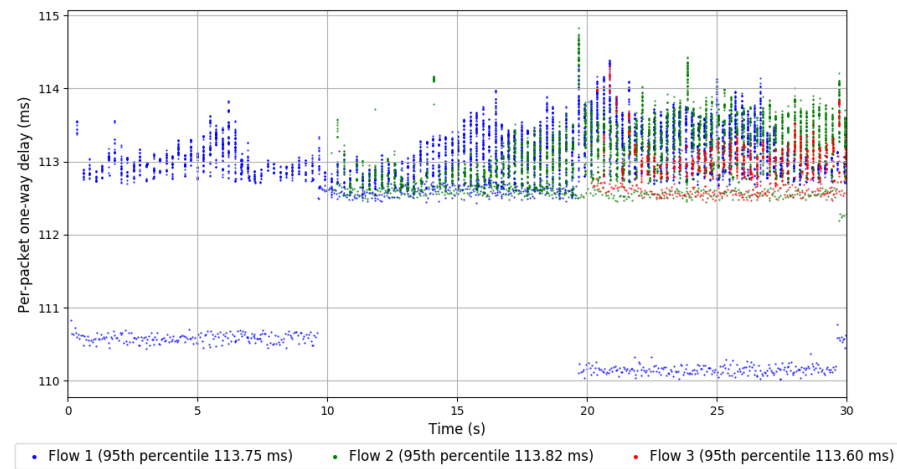
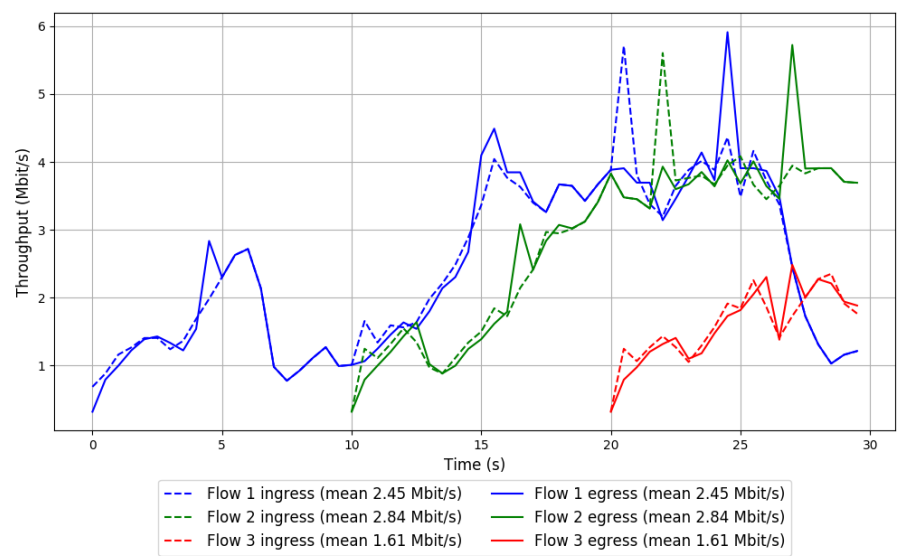
-- Flow 3:

Average throughput: 1.61 Mbit/s

95th percentile per-packet one-way delay: 113.598 ms

Loss rate: 0.00%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-01-02 19:00:17

End at: 2018-01-02 19:00:47

Below is generated by plot.py at 2018-01-02 22:00:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.44 Mbit/s

95th percentile per-packet one-way delay: 112.359 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.58 Mbit/s

95th percentile per-packet one-way delay: 112.268 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.96 Mbit/s

95th percentile per-packet one-way delay: 112.489 ms

Loss rate: 0.00%

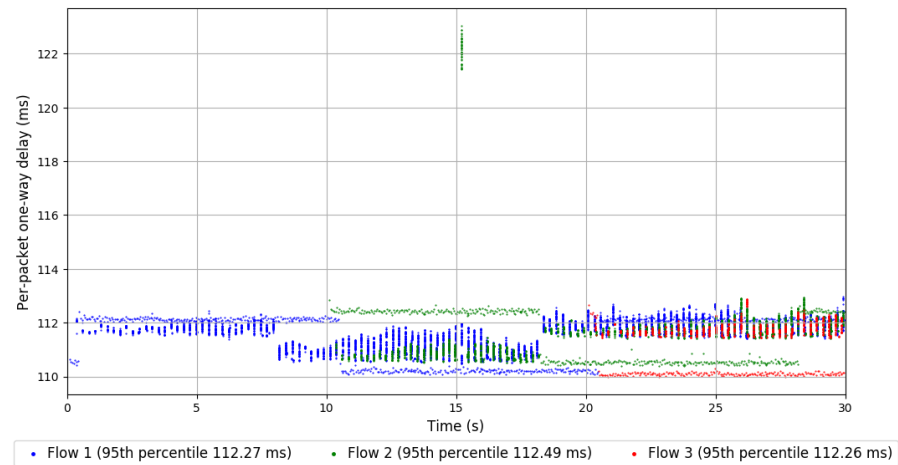
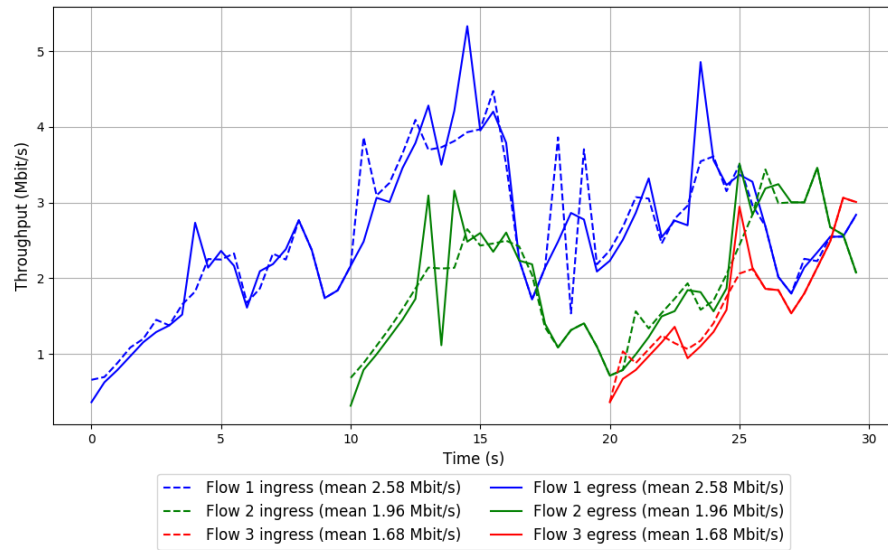
-- Flow 3:

Average throughput: 1.68 Mbit/s

95th percentile per-packet one-way delay: 112.256 ms

Loss rate: 0.00%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-01-02 19:15:50

End at: 2018-01-02 19:16:20

Below is generated by plot.py at 2018-01-02 22:00:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 5.18 Mbit/s

95th percentile per-packet one-way delay: 112.482 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.87 Mbit/s

95th percentile per-packet one-way delay: 112.444 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 2.67 Mbit/s

95th percentile per-packet one-way delay: 112.558 ms

Loss rate: 0.00%

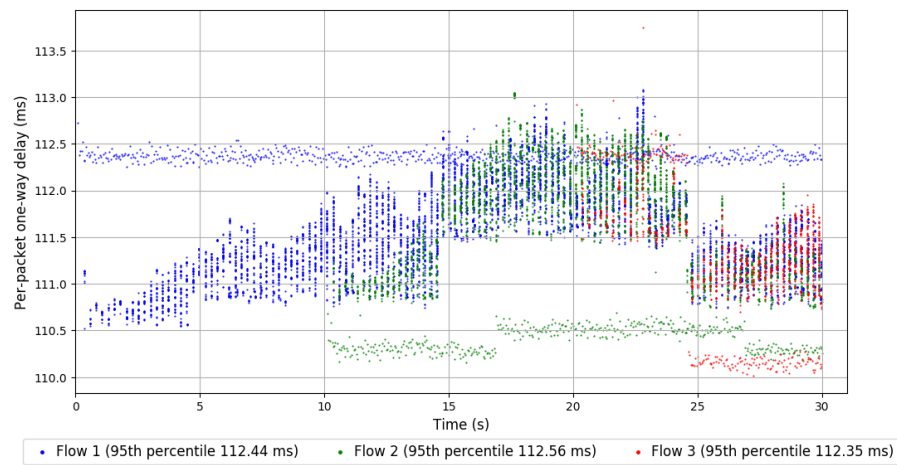
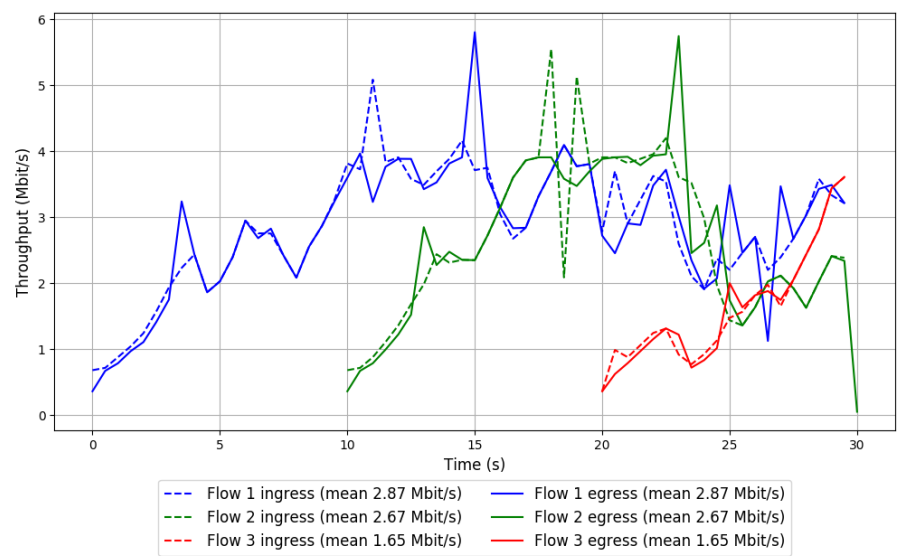
-- Flow 3:

Average throughput: 1.65 Mbit/s

95th percentile per-packet one-way delay: 112.351 ms

Loss rate: 0.00%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-01-02 19:31:24

End at: 2018-01-02 19:31:54

Below is generated by plot.py at 2018-01-02 22:00:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.43 Mbit/s

95th percentile per-packet one-way delay: 114.406 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.72 Mbit/s

95th percentile per-packet one-way delay: 114.484 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.97 Mbit/s

95th percentile per-packet one-way delay: 114.159 ms

Loss rate: 0.00%

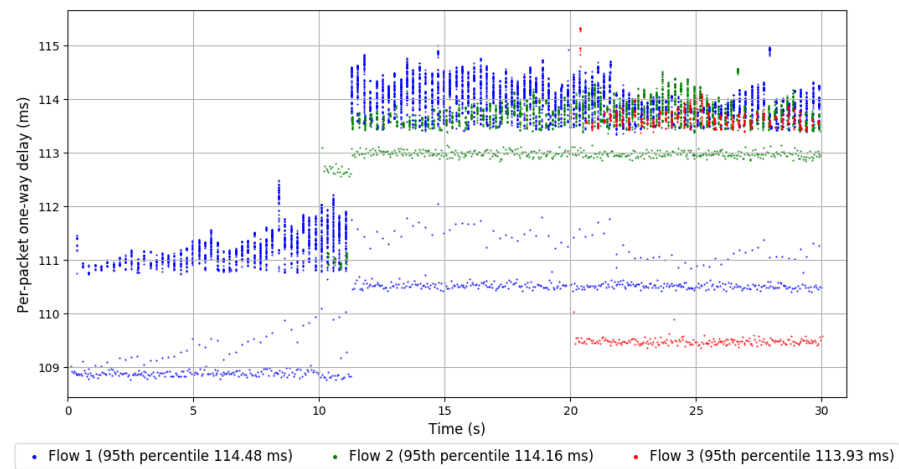
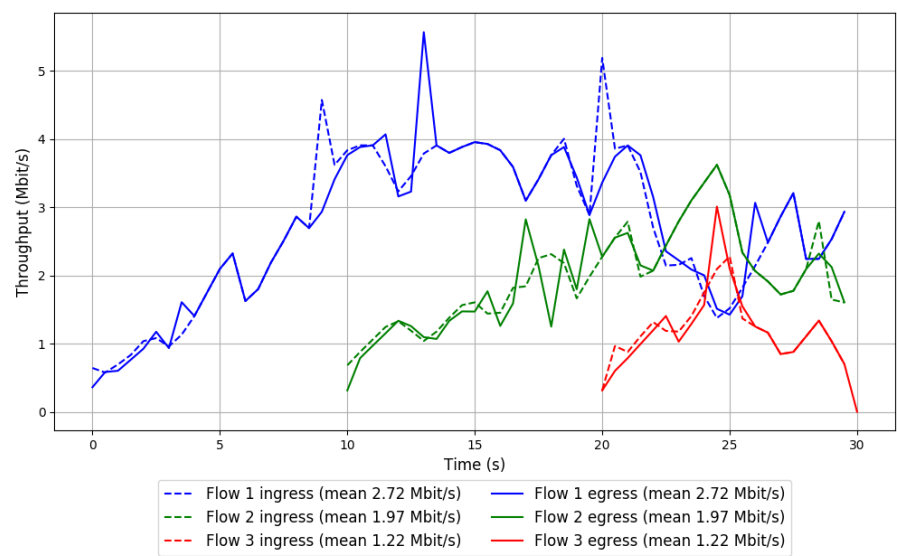
-- Flow 3:

Average throughput: 1.22 Mbit/s

95th percentile per-packet one-way delay: 113.929 ms

Loss rate: 0.00%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-01-02 19:46:38

End at: 2018-01-02 19:47:08

Below is generated by plot.py at 2018-01-02 22:00:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.47 Mbit/s

95th percentile per-packet one-way delay: 113.924 ms

Loss rate: 1.02%

-- Flow 1:

Average throughput: 1.99 Mbit/s

95th percentile per-packet one-way delay: 113.774 ms

Loss rate: 0.87%

-- Flow 2:

Average throughput: 1.34 Mbit/s

95th percentile per-packet one-way delay: 113.866 ms

Loss rate: 2.01%

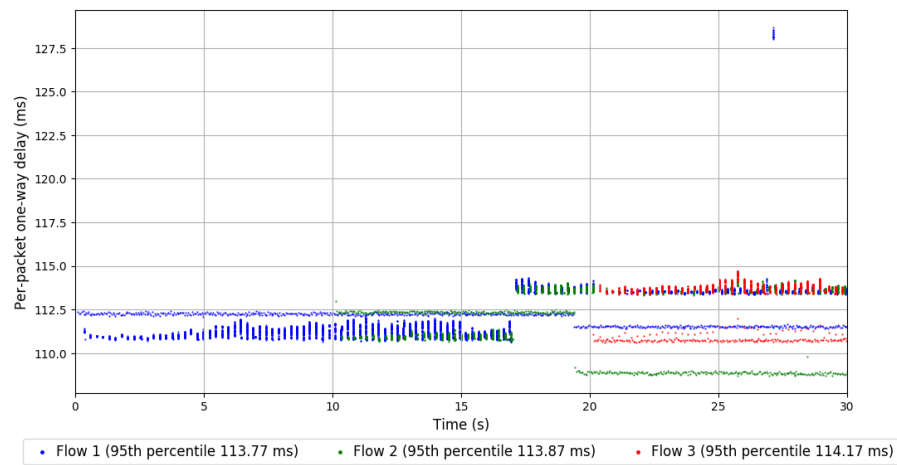
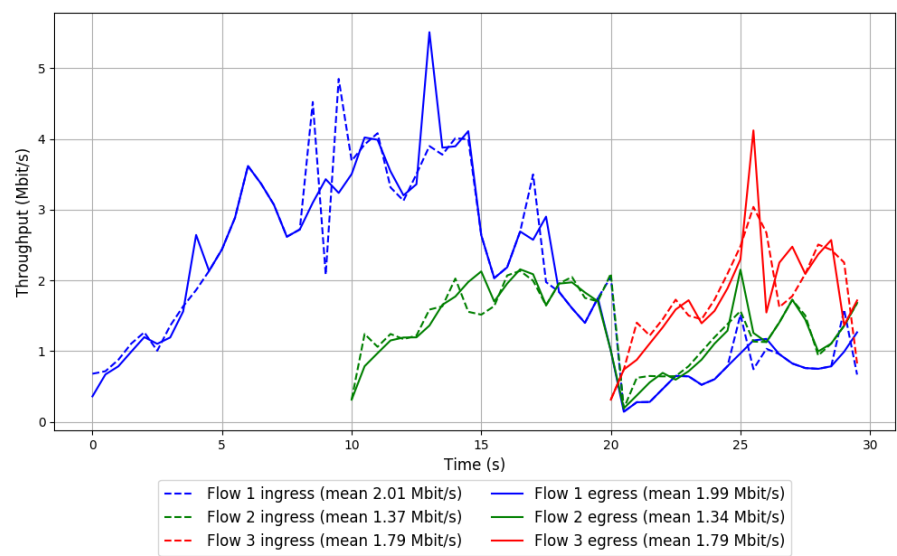
-- Flow 3:

Average throughput: 1.79 Mbit/s

95th percentile per-packet one-way delay: 114.172 ms

Loss rate: 0.00%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

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

End at: 2018-01-02 20:02:31

Below is generated by plot.py at 2018-01-02 22:00:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.42 Mbit/s

95th percentile per-packet one-way delay: 114.196 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 1.58 Mbit/s

95th percentile per-packet one-way delay: 114.116 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 1.85 Mbit/s

95th percentile per-packet one-way delay: 114.129 ms

Loss rate: 0.00%

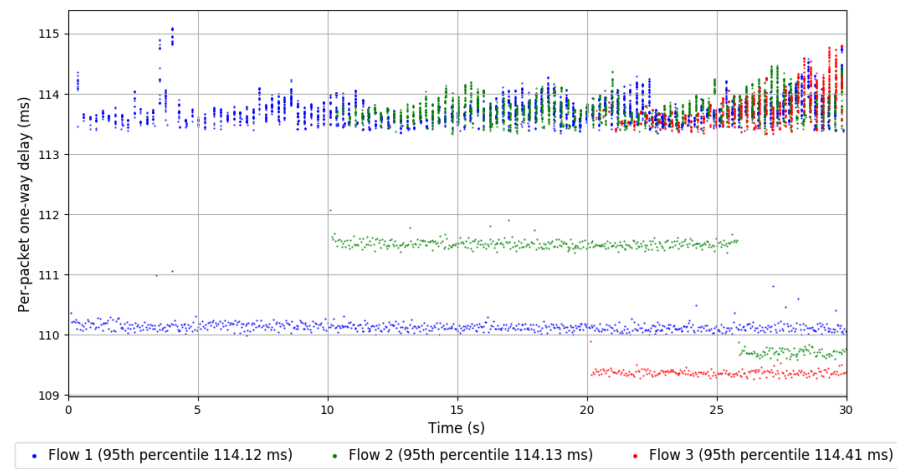
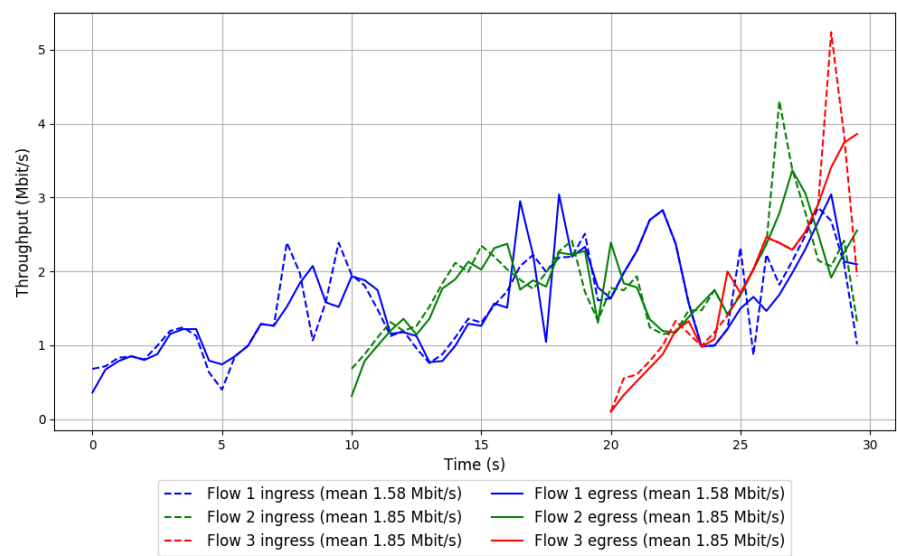
-- Flow 3:

Average throughput: 1.85 Mbit/s

95th percentile per-packet one-way delay: 114.412 ms

Loss rate: 0.00%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-01-02 20:17:20

End at: 2018-01-02 20:17:50

Below is generated by plot.py at 2018-01-02 22:00:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.68 Mbit/s

95th percentile per-packet one-way delay: 114.116 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.85 Mbit/s

95th percentile per-packet one-way delay: 114.022 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.73 Mbit/s

95th percentile per-packet one-way delay: 114.080 ms

Loss rate: 0.00%

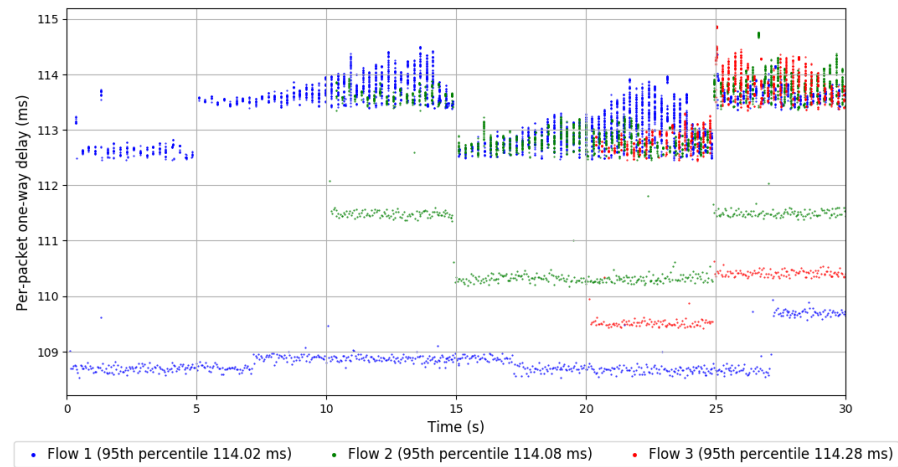
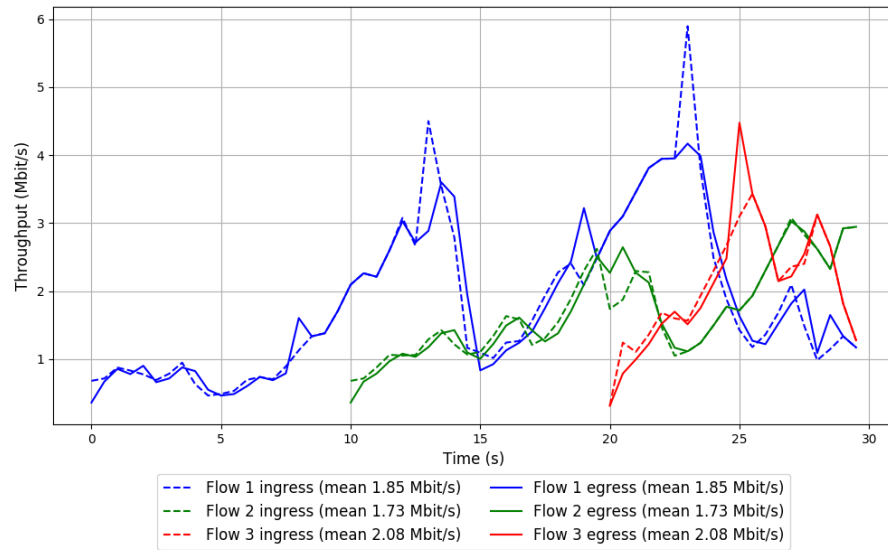
-- Flow 3:

Average throughput: 2.08 Mbit/s

95th percentile per-packet one-way delay: 114.285 ms

Loss rate: 0.00%

Run 10: Report of Sprout — Data Link

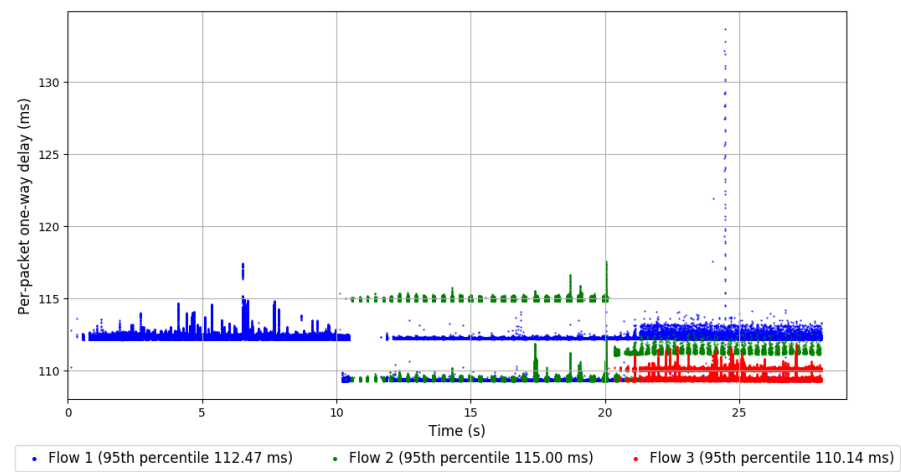
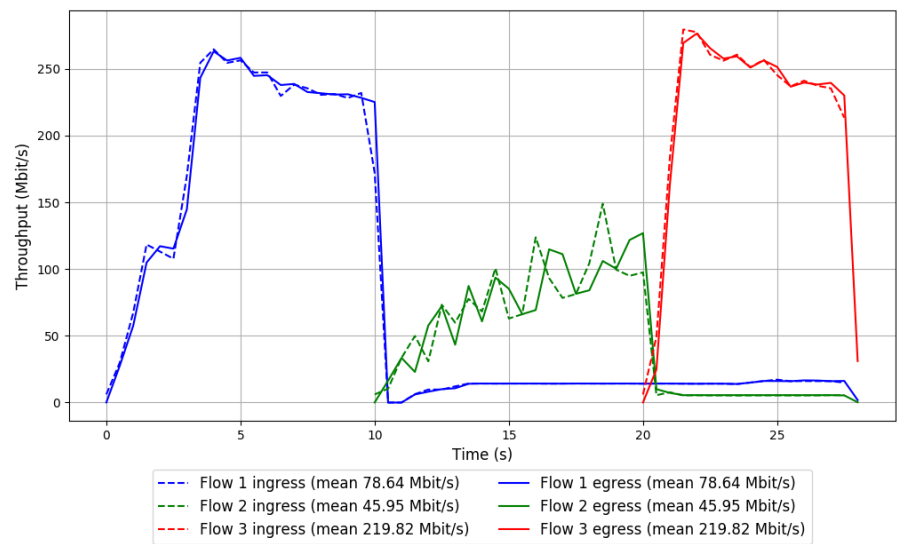


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-01-02 18:08:03
End at: 2018-01-02 18:08:33

# Below is generated by plot.py at 2018-01-02 22:01:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 170.47 Mbit/s
95th percentile per-packet one-way delay: 114.903 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 78.64 Mbit/s
95th percentile per-packet one-way delay: 112.466 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 45.95 Mbit/s
95th percentile per-packet one-way delay: 114.996 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 219.82 Mbit/s
95th percentile per-packet one-way delay: 110.137 ms
Loss rate: 0.00%
```


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

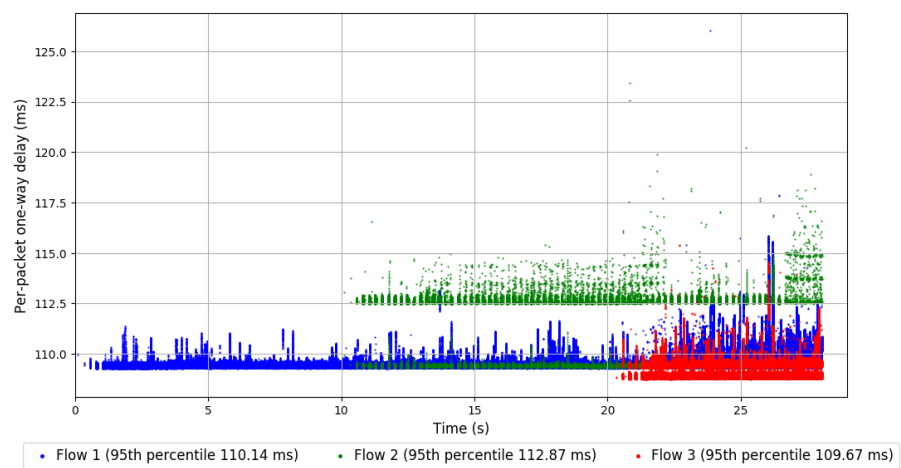
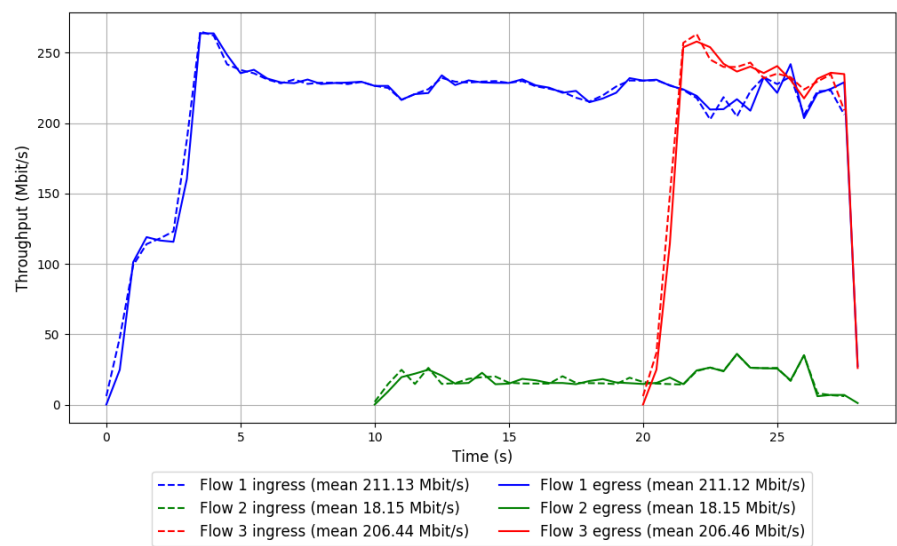


```
Run 2: Statistics of TaoVA-100x

Start at: 2018-01-02 18:23:28
End at: 2018-01-02 18:23:58

# Below is generated by plot.py at 2018-01-02 22:04:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 281.39 Mbit/s
95th percentile per-packet one-way delay: 110.347 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 211.12 Mbit/s
95th percentile per-packet one-way delay: 110.135 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 18.15 Mbit/s
95th percentile per-packet one-way delay: 112.872 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 206.46 Mbit/s
95th percentile per-packet one-way delay: 109.669 ms
Loss rate: 0.00%
```

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

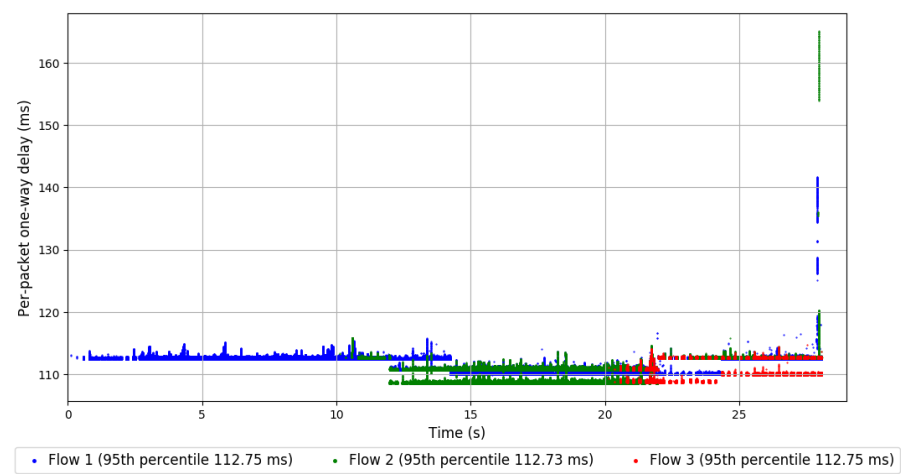
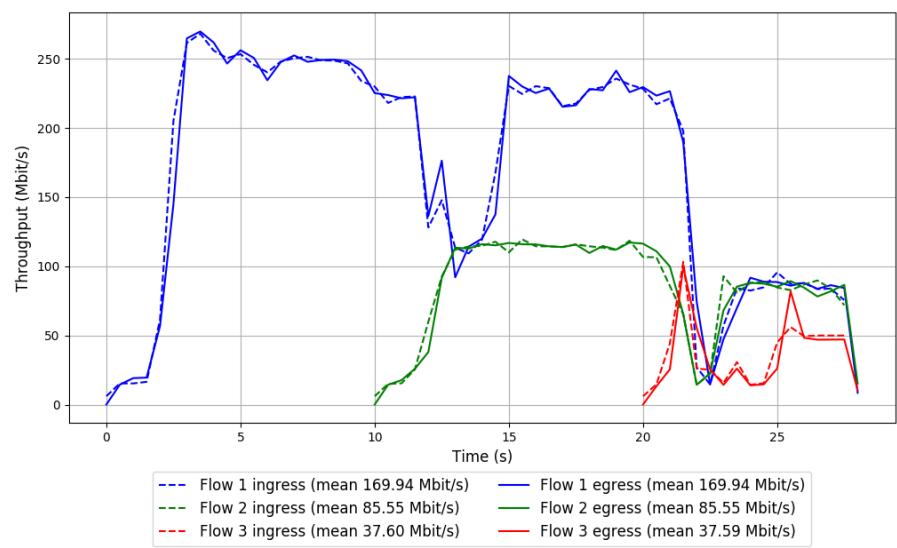


```
Run 3: Statistics of TaoVA-100x

Start at: 2018-01-02 18:39:01
End at: 2018-01-02 18:39:31

# Below is generated by plot.py at 2018-01-02 22:04:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 235.53 Mbit/s
95th percentile per-packet one-way delay: 112.747 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 169.94 Mbit/s
95th percentile per-packet one-way delay: 112.751 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 85.55 Mbit/s
95th percentile per-packet one-way delay: 112.729 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 37.59 Mbit/s
95th percentile per-packet one-way delay: 112.750 ms
Loss rate: 0.00%
```

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-01-02 18:54:29

End at: 2018-01-02 18:54:59

Below is generated by plot.py at 2018-01-02 22:04:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 247.30 Mbit/s

95th percentile per-packet one-way delay: 114.025 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 171.05 Mbit/s

95th percentile per-packet one-way delay: 113.870 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 77.29 Mbit/s

95th percentile per-packet one-way delay: 113.747 ms

Loss rate: 0.00%

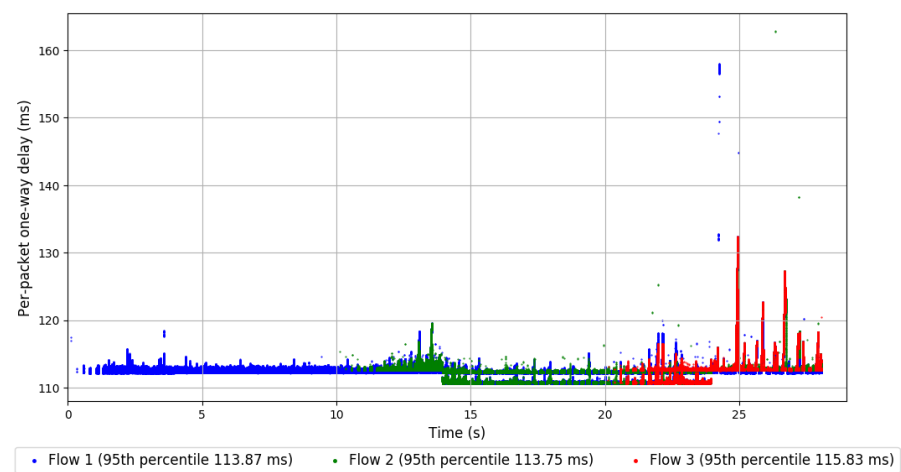
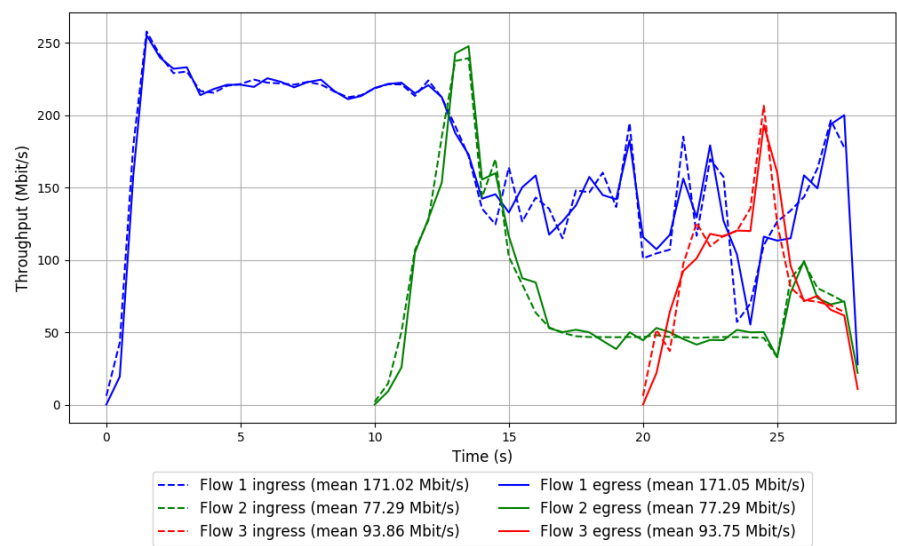
-- Flow 3:

Average throughput: 93.75 Mbit/s

95th percentile per-packet one-way delay: 115.828 ms

Loss rate: 0.00%

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

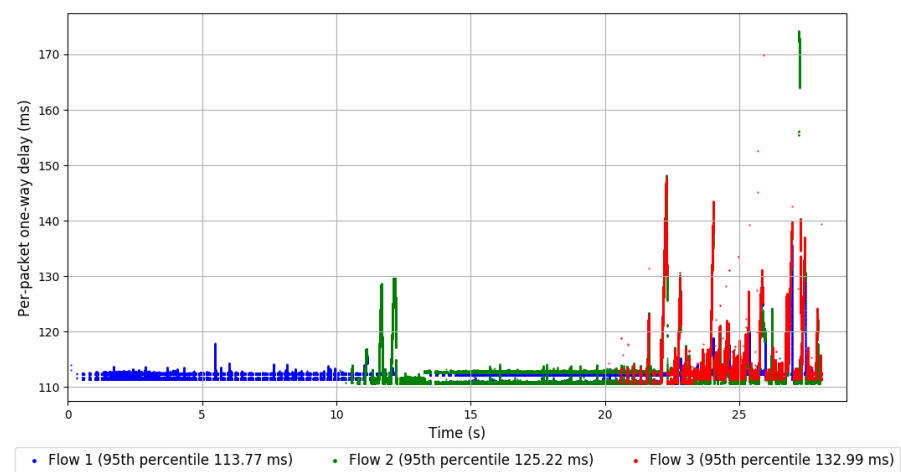
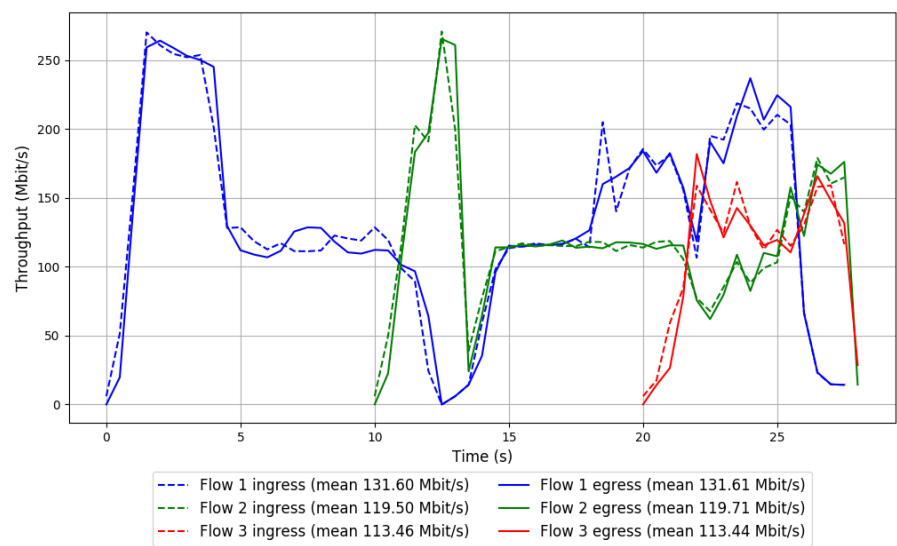


```
Run 5: Statistics of TaoVA-100x

Start at: 2018-01-02 19:10:00
End at: 2018-01-02 19:10:30

# Below is generated by plot.py at 2018-01-02 22:04:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 240.24 Mbit/s
95th percentile per-packet one-way delay: 122.848 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 131.61 Mbit/s
95th percentile per-packet one-way delay: 113.772 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 119.71 Mbit/s
95th percentile per-packet one-way delay: 125.221 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 113.44 Mbit/s
95th percentile per-packet one-way delay: 132.991 ms
Loss rate: 0.02%
```


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



Run 6: Statistics of TaoVA-100x

Start at: 2018-01-02 19:25:36

End at: 2018-01-02 19:26:06

Below is generated by plot.py at 2018-01-02 22:04:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 278.99 Mbit/s

95th percentile per-packet one-way delay: 112.614 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 167.28 Mbit/s

95th percentile per-packet one-way delay: 112.592 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 172.75 Mbit/s

95th percentile per-packet one-way delay: 112.982 ms

Loss rate: 0.00%

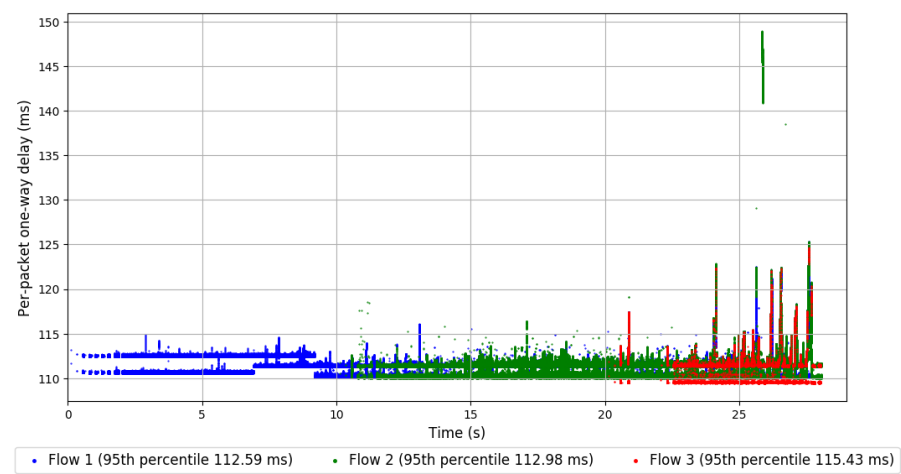
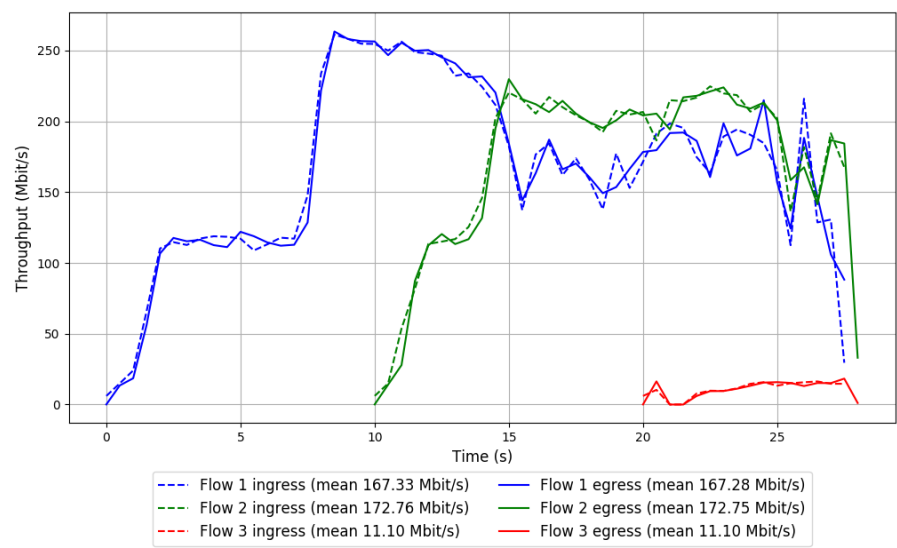
-- Flow 3:

Average throughput: 11.10 Mbit/s

95th percentile per-packet one-way delay: 115.434 ms

Loss rate: 0.00%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-01-02 19:41:09

End at: 2018-01-02 19:41:39

Below is generated by plot.py at 2018-01-02 22:04:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 105.91 Mbit/s

95th percentile per-packet one-way delay: 113.465 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 94.91 Mbit/s

95th percentile per-packet one-way delay: 113.430 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 9.77 Mbit/s

95th percentile per-packet one-way delay: 114.560 ms

Loss rate: 0.02%

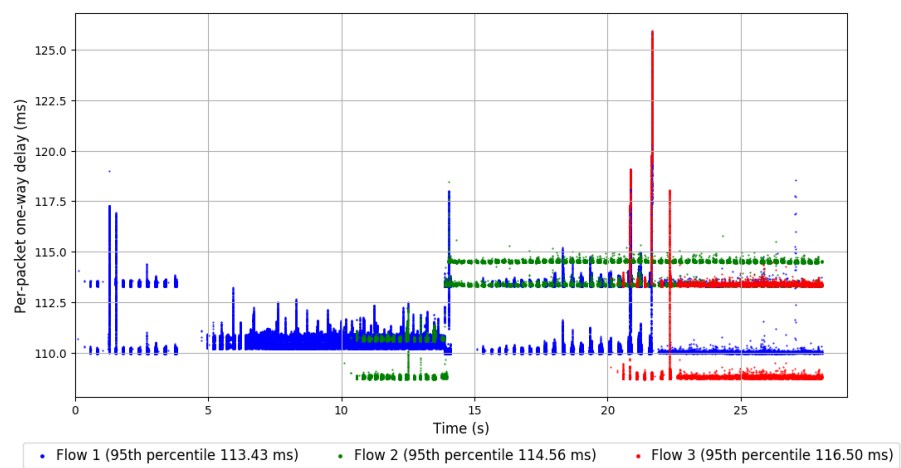
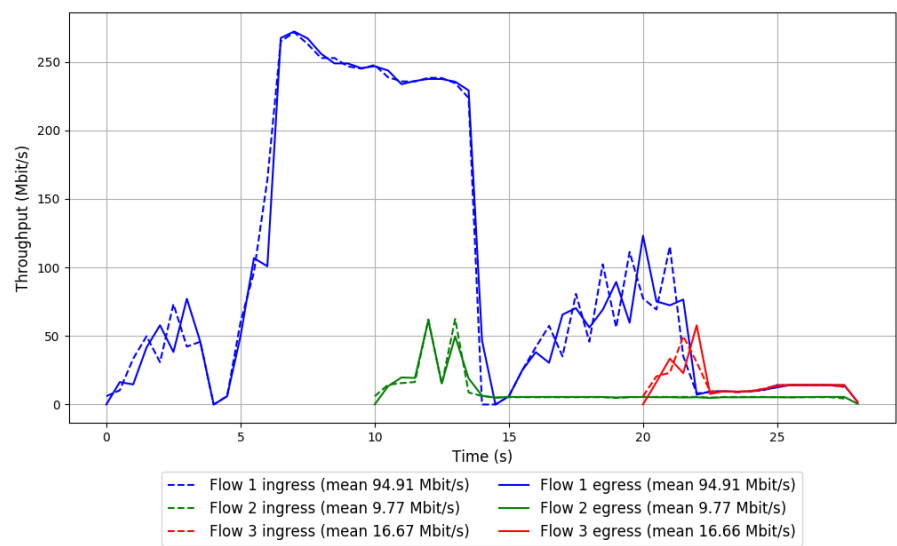
-- Flow 3:

Average throughput: 16.66 Mbit/s

95th percentile per-packet one-way delay: 116.495 ms

Loss rate: 0.03%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-01-02 19:56:34

End at: 2018-01-02 19:57:04

Below is generated by plot.py at 2018-01-02 22:04:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 50.40 Mbit/s

95th percentile per-packet one-way delay: 113.410 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 15.97 Mbit/s

95th percentile per-packet one-way delay: 113.371 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 13.15 Mbit/s

95th percentile per-packet one-way delay: 113.396 ms

Loss rate: 0.01%

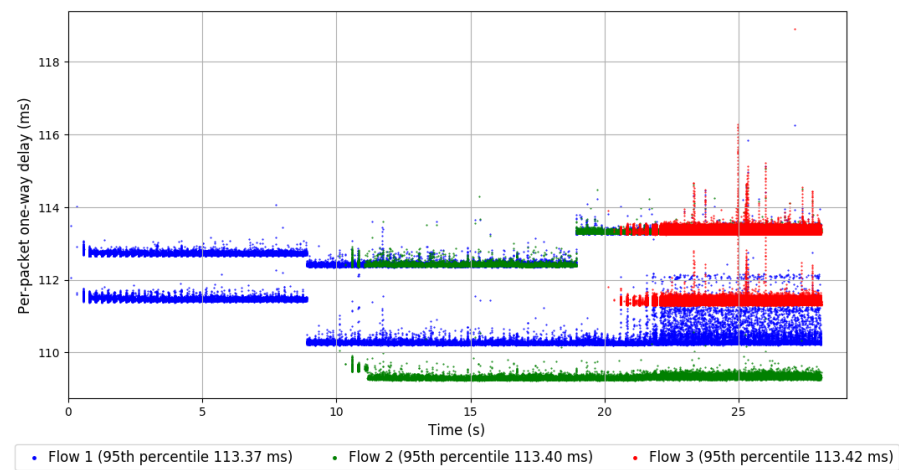
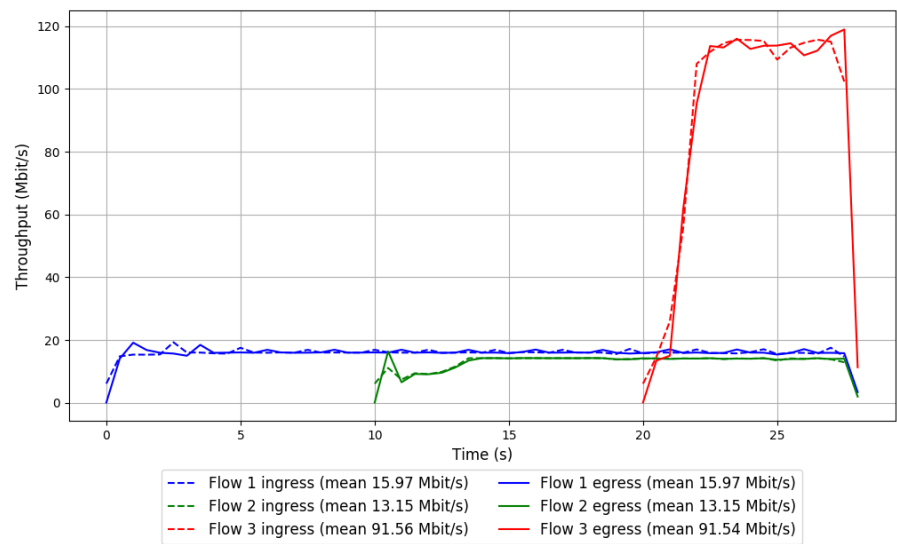
-- Flow 3:

Average throughput: 91.54 Mbit/s

95th percentile per-packet one-way delay: 113.425 ms

Loss rate: 0.02%

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

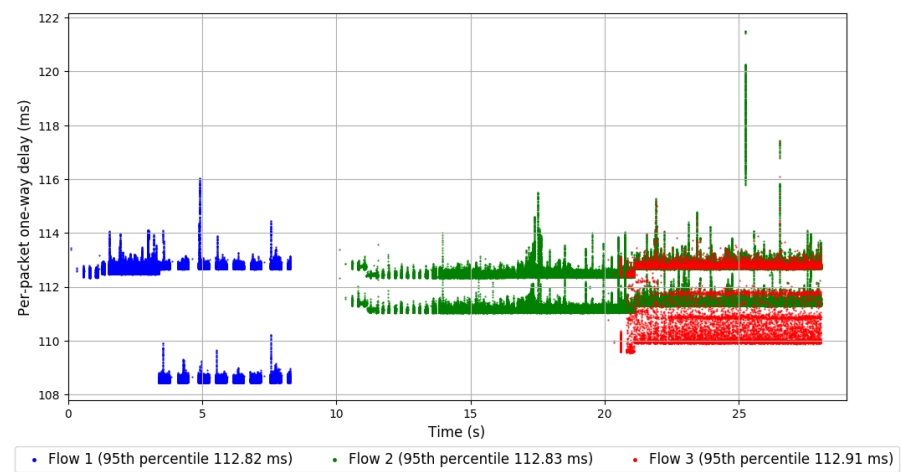
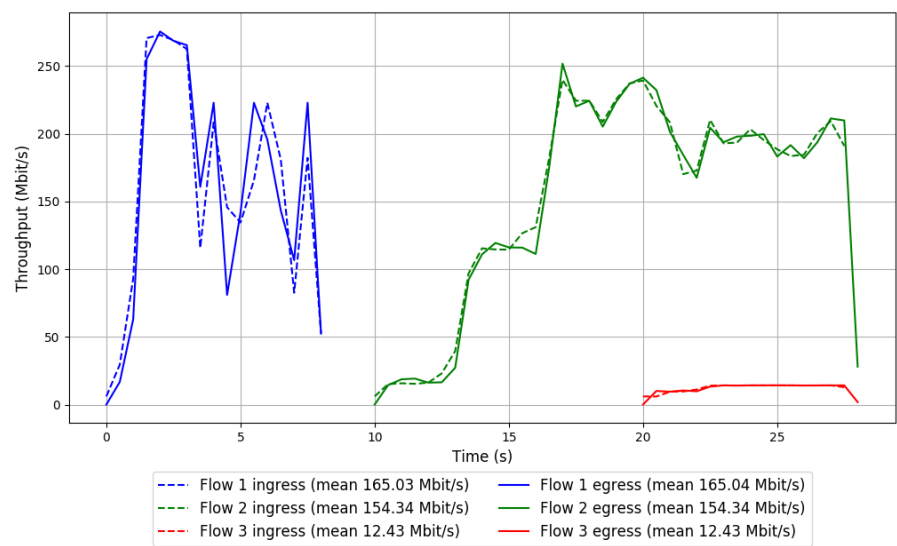


```
Run 9: Statistics of TaoVA-100x

Start at: 2018-01-02 20:11:42
End at: 2018-01-02 20:12:12

# Below is generated by plot.py at 2018-01-02 22:05:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 150.81 Mbit/s
95th percentile per-packet one-way delay: 112.831 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 165.04 Mbit/s
95th percentile per-packet one-way delay: 112.823 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 154.34 Mbit/s
95th percentile per-packet one-way delay: 112.833 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 12.43 Mbit/s
95th percentile per-packet one-way delay: 112.914 ms
Loss rate: 0.01%
```


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

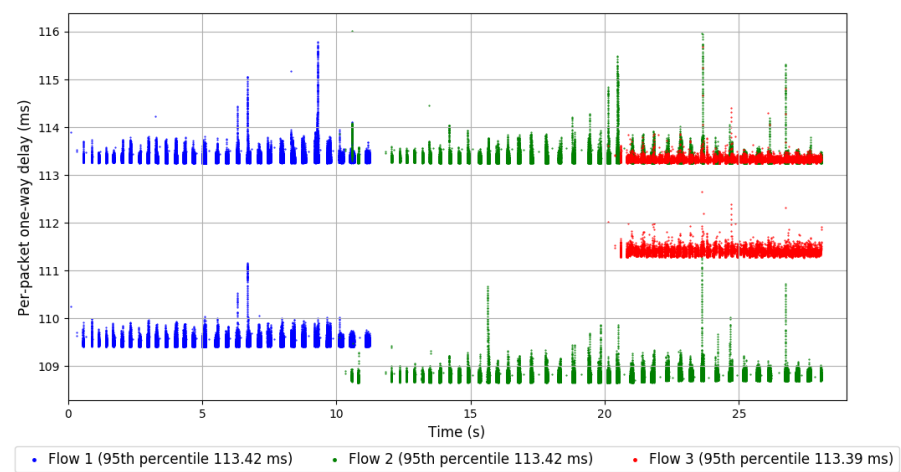
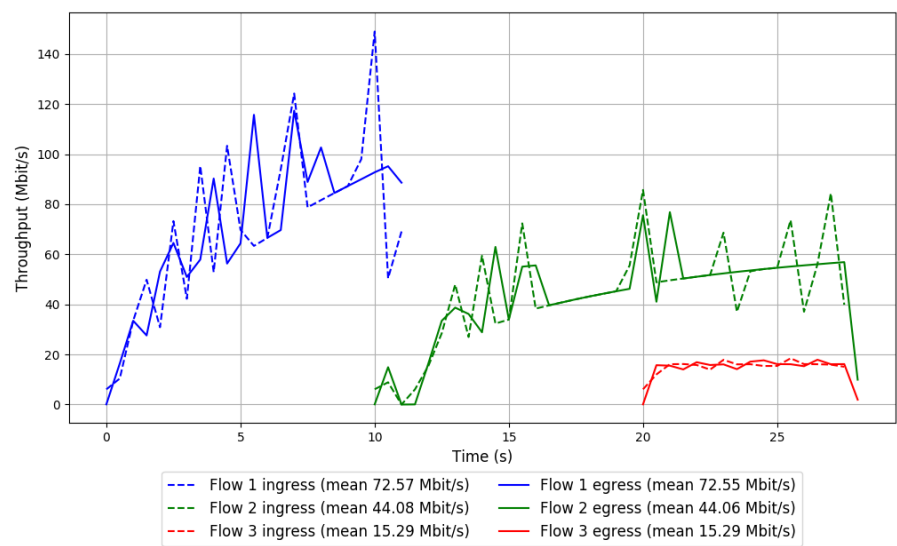


```
Run 10: Statistics of TaoVA-100x

Start at: 2018-01-02 20:27:01
End at: 2018-01-02 20:27:31

# Below is generated by plot.py at 2018-01-02 22:05:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 61.49 Mbit/s
95th percentile per-packet one-way delay: 113.418 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 72.55 Mbit/s
95th percentile per-packet one-way delay: 113.416 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 44.06 Mbit/s
95th percentile per-packet one-way delay: 113.425 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 15.29 Mbit/s
95th percentile per-packet one-way delay: 113.388 ms
Loss rate: 0.02%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2018-01-02 17:54:30

End at: 2018-01-02 17:55:00

Below is generated by plot.py at 2018-01-02 22:05:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 48.45 Mbit/s

95th percentile per-packet one-way delay: 113.215 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 8.92 Mbit/s

95th percentile per-packet one-way delay: 113.076 ms

Loss rate: 0.58%

-- Flow 2:

Average throughput: 45.50 Mbit/s

95th percentile per-packet one-way delay: 113.379 ms

Loss rate: 0.02%

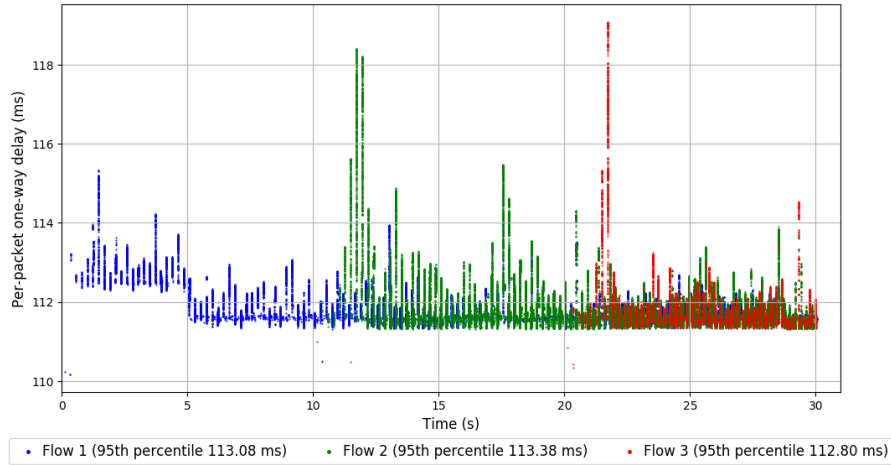
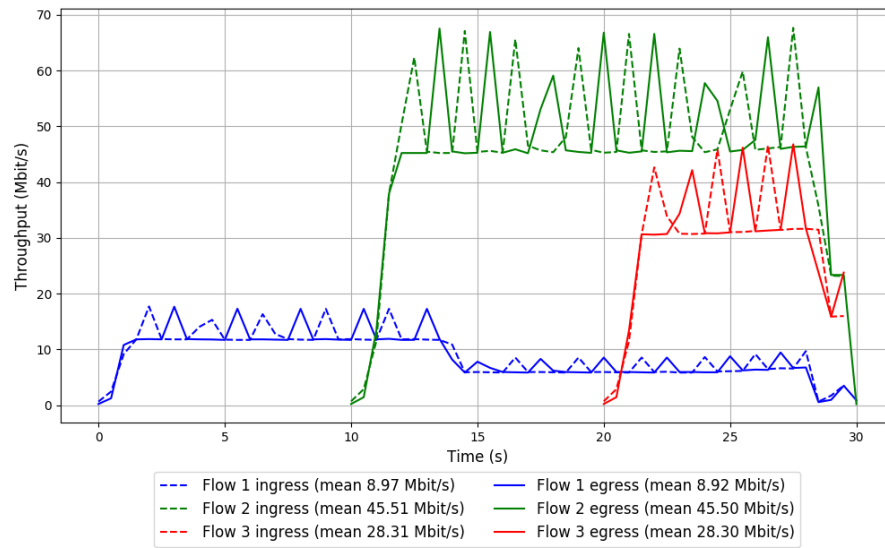
-- Flow 3:

Average throughput: 28.30 Mbit/s

95th percentile per-packet one-way delay: 112.804 ms

Loss rate: 0.01%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-01-02 18:09:52

End at: 2018-01-02 18:10:22

Below is generated by plot.py at 2018-01-02 22:05:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 55.47 Mbit/s

95th percentile per-packet one-way delay: 120.692 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 5.24 Mbit/s

95th percentile per-packet one-way delay: 115.015 ms

Loss rate: 0.65%

-- Flow 2:

Average throughput: 30.37 Mbit/s

95th percentile per-packet one-way delay: 118.807 ms

Loss rate: 0.01%

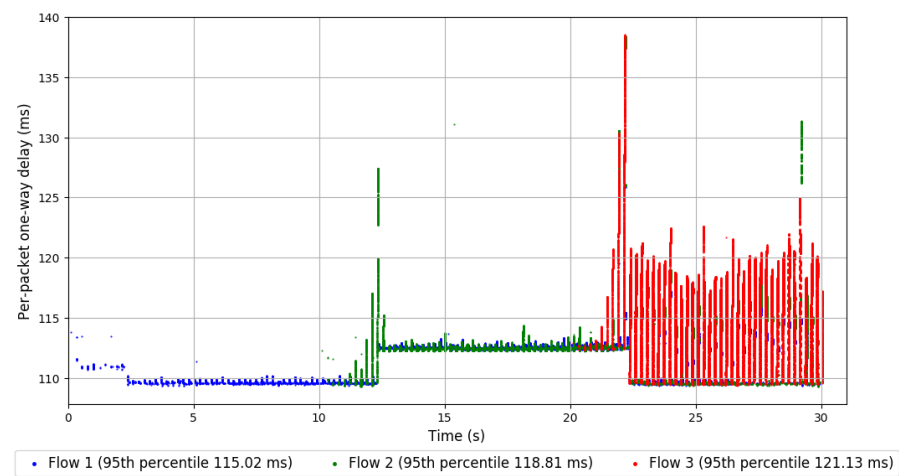
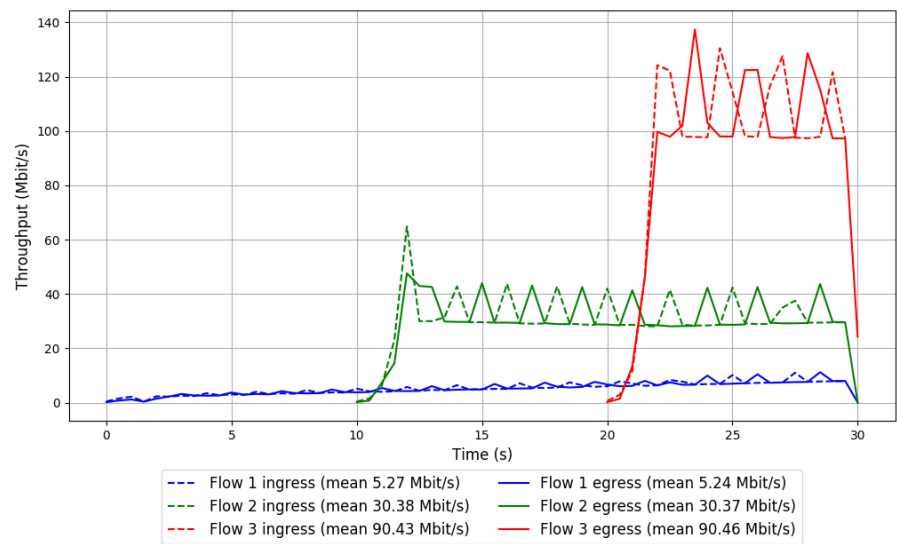
-- Flow 3:

Average throughput: 90.46 Mbit/s

95th percentile per-packet one-way delay: 121.128 ms

Loss rate: 0.00%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-01-02 18:25:29

End at: 2018-01-02 18:25:59

Below is generated by plot.py at 2018-01-02 22:05:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 159.82 Mbit/s

95th percentile per-packet one-way delay: 119.579 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 102.03 Mbit/s

95th percentile per-packet one-way delay: 118.946 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 49.77 Mbit/s

95th percentile per-packet one-way delay: 120.601 ms

Loss rate: 0.00%

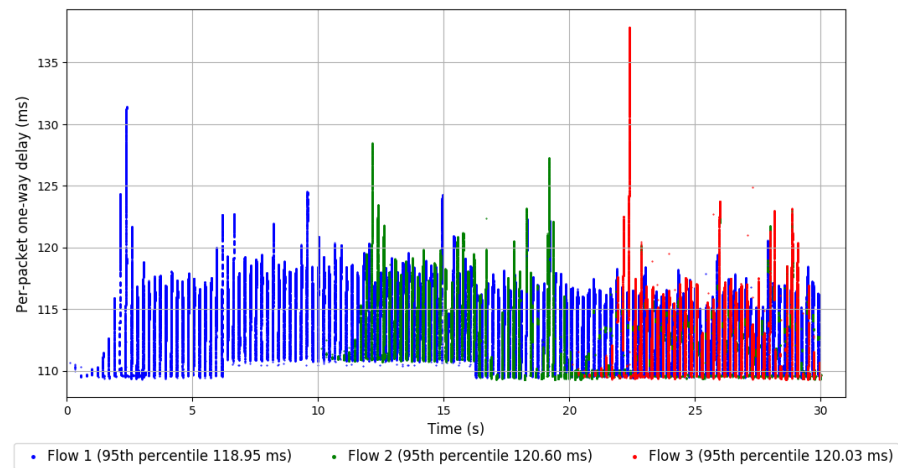
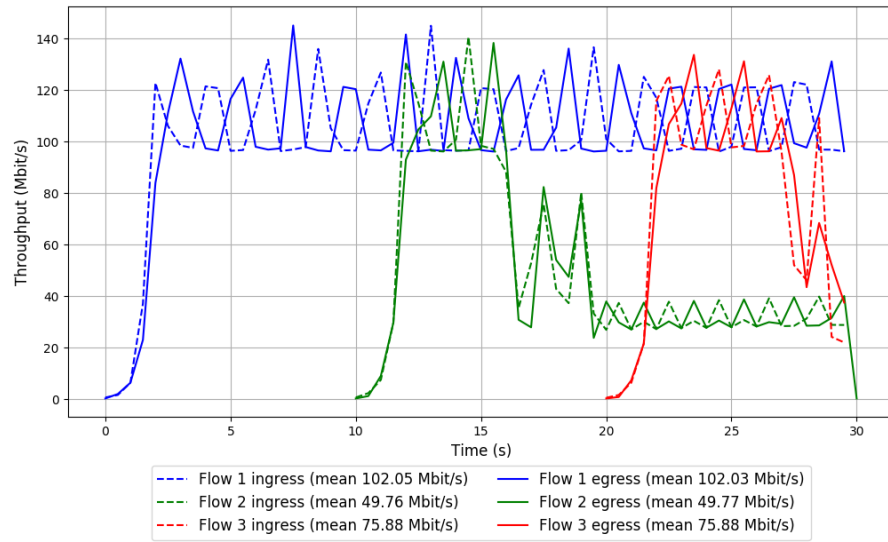
-- Flow 3:

Average throughput: 75.88 Mbit/s

95th percentile per-packet one-way delay: 120.025 ms

Loss rate: 0.00%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-01-02 18:40:58

End at: 2018-01-02 18:41:28

Below is generated by plot.py at 2018-01-02 22:05:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 79.16 Mbit/s

95th percentile per-packet one-way delay: 122.121 ms

Loss rate: 0.19%

-- Flow 1:

Average throughput: 36.10 Mbit/s

95th percentile per-packet one-way delay: 116.250 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 20.31 Mbit/s

95th percentile per-packet one-way delay: 115.017 ms

Loss rate: 0.00%

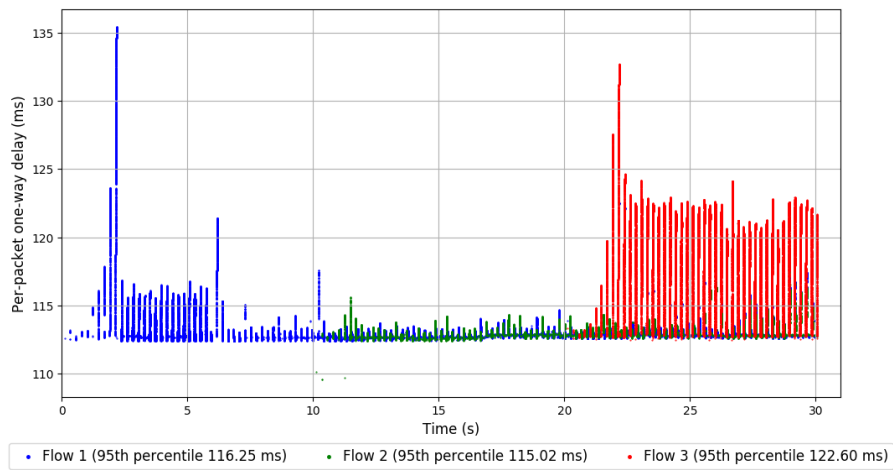
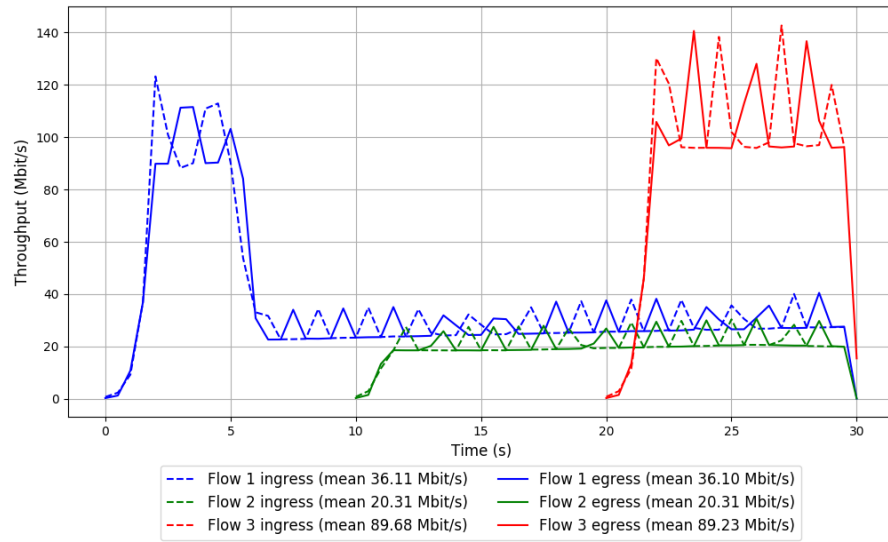
-- Flow 3:

Average throughput: 89.23 Mbit/s

95th percentile per-packet one-way delay: 122.596 ms

Loss rate: 0.49%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-01-02 18:56:27

End at: 2018-01-02 18:56:57

Below is generated by plot.py at 2018-01-02 22:05:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 111.90 Mbit/s

95th percentile per-packet one-way delay: 122.482 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 46.88 Mbit/s

95th percentile per-packet one-way delay: 120.392 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 90.15 Mbit/s

95th percentile per-packet one-way delay: 123.014 ms

Loss rate: 0.00%

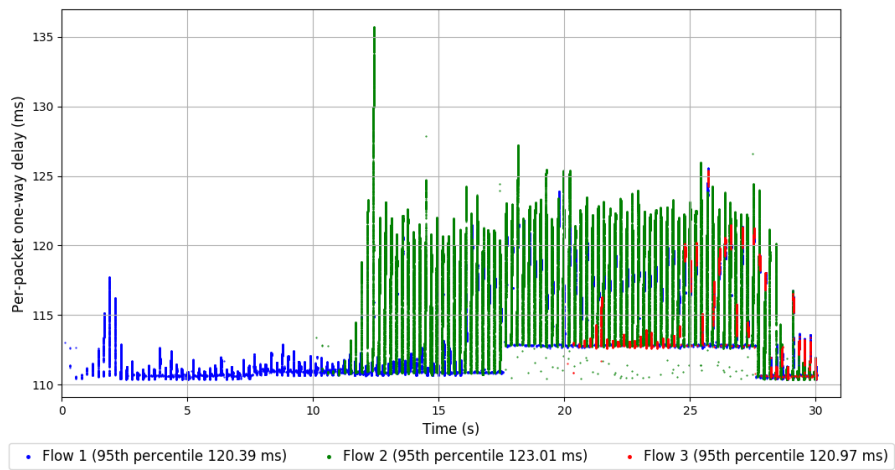
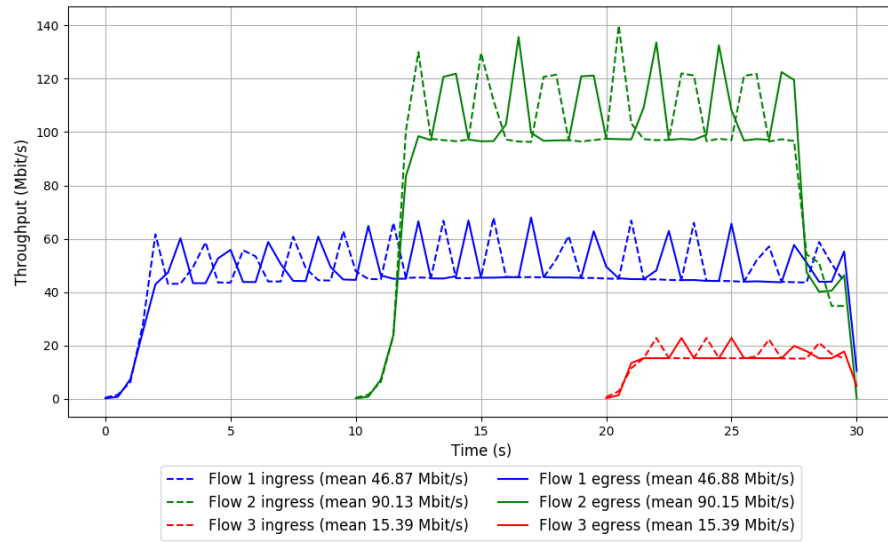
-- Flow 3:

Average throughput: 15.39 Mbit/s

95th percentile per-packet one-way delay: 120.969 ms

Loss rate: 0.00%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-01-02 19:11:57

End at: 2018-01-02 19:12:27

Below is generated by plot.py at 2018-01-02 22:05:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 123.54 Mbit/s

95th percentile per-packet one-way delay: 119.135 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 53.22 Mbit/s

95th percentile per-packet one-way delay: 113.545 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 98.43 Mbit/s

95th percentile per-packet one-way delay: 119.712 ms

Loss rate: 0.00%

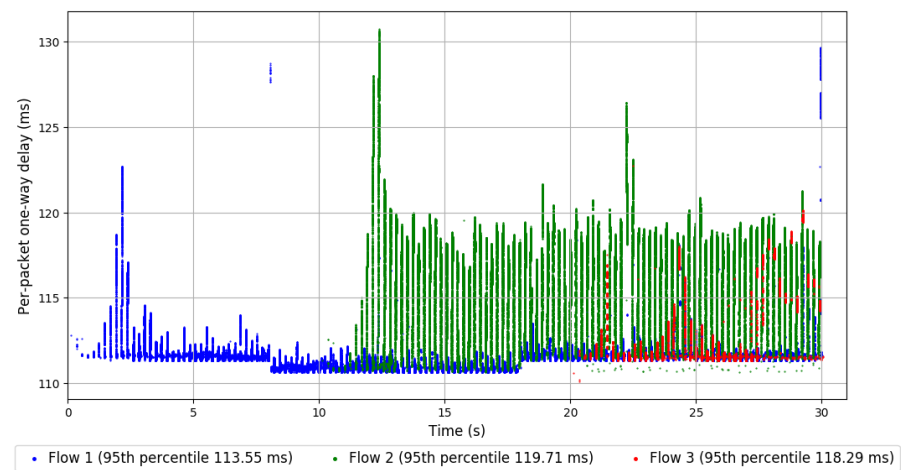
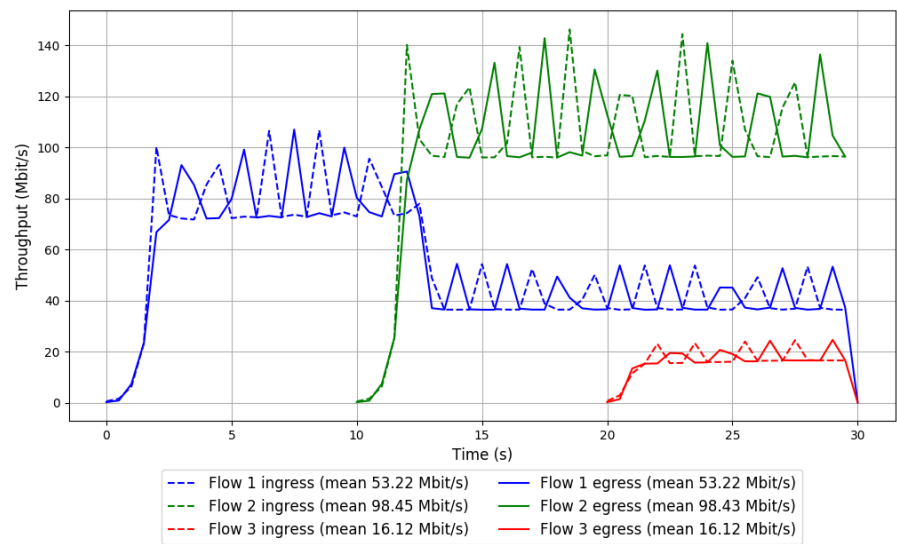
-- Flow 3:

Average throughput: 16.12 Mbit/s

95th percentile per-packet one-way delay: 118.287 ms

Loss rate: 0.00%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-01-02 19:27:37

End at: 2018-01-02 19:28:07

Below is generated by plot.py at 2018-01-02 22:05:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 109.48 Mbit/s

95th percentile per-packet one-way delay: 118.389 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 61.53 Mbit/s

95th percentile per-packet one-way delay: 112.929 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 27.07 Mbit/s

95th percentile per-packet one-way delay: 112.552 ms

Loss rate: 0.02%

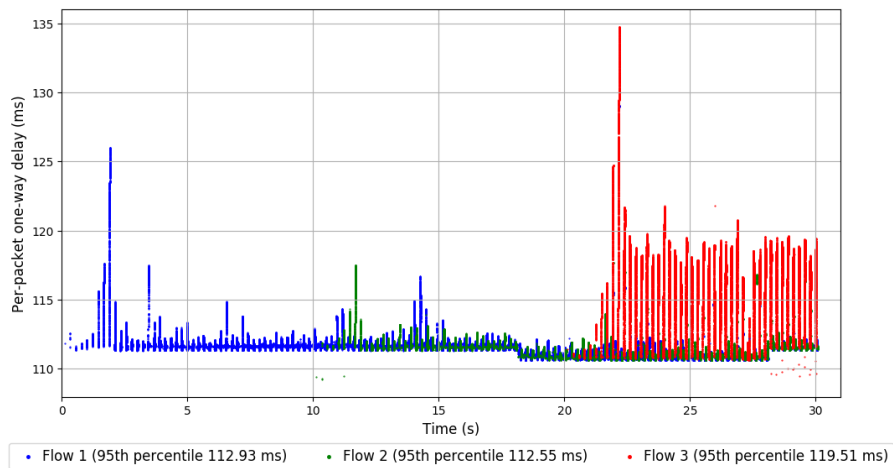
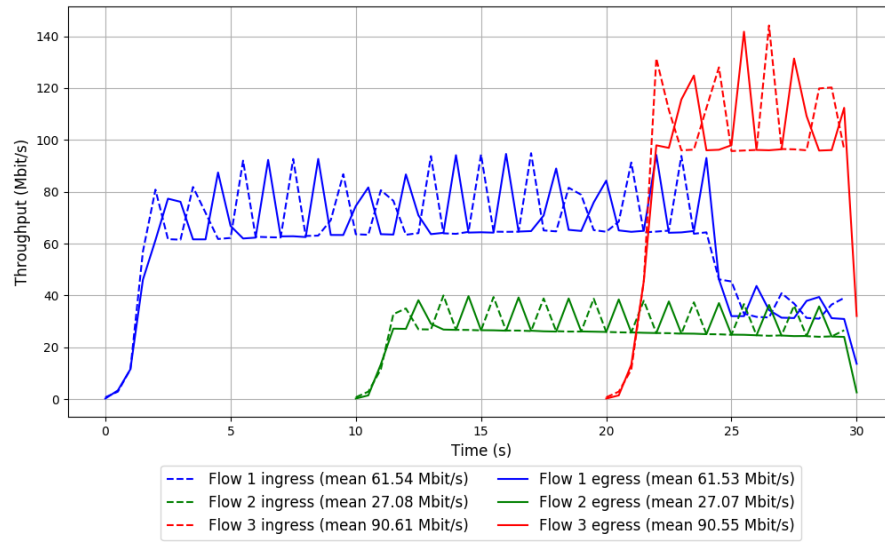
-- Flow 3:

Average throughput: 90.55 Mbit/s

95th percentile per-packet one-way delay: 119.506 ms

Loss rate: 0.00%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-01-02 19:42:53

End at: 2018-01-02 19:43:23

Below is generated by plot.py at 2018-01-02 22:05:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 52.71 Mbit/s

95th percentile per-packet one-way delay: 114.451 ms

Loss rate: 0.30%

-- Flow 1:

Average throughput: 25.68 Mbit/s

95th percentile per-packet one-way delay: 113.865 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 33.02 Mbit/s

95th percentile per-packet one-way delay: 115.041 ms

Loss rate: 0.70%

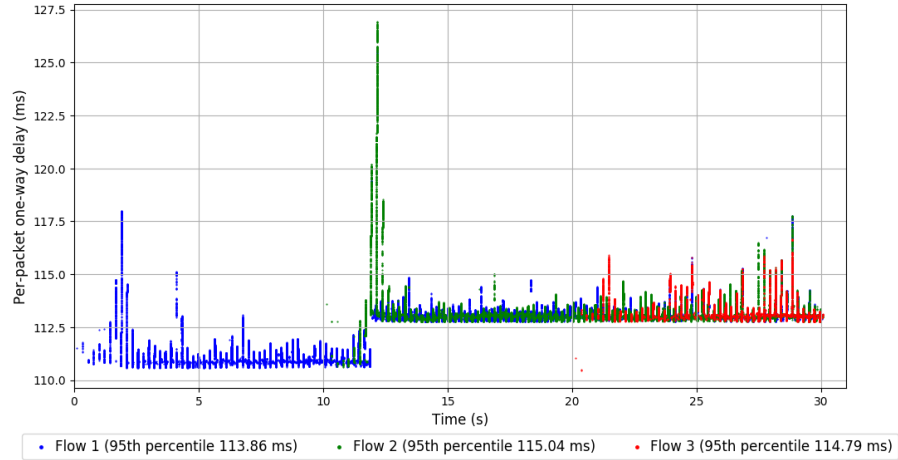
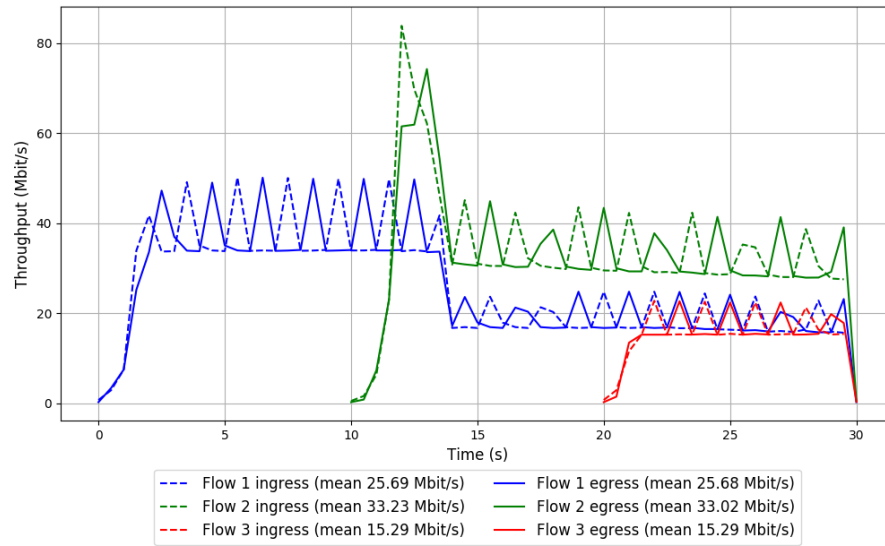
-- Flow 3:

Average throughput: 15.29 Mbit/s

95th percentile per-packet one-way delay: 114.793 ms

Loss rate: 0.00%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-01-02 19:58:12

End at: 2018-01-02 19:58:42

Below is generated by plot.py at 2018-01-02 22:05:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 62.56 Mbit/s

95th percentile per-packet one-way delay: 115.286 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 49.10 Mbit/s

95th percentile per-packet one-way delay: 115.458 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 16.37 Mbit/s

95th percentile per-packet one-way delay: 115.166 ms

Loss rate: 0.00%

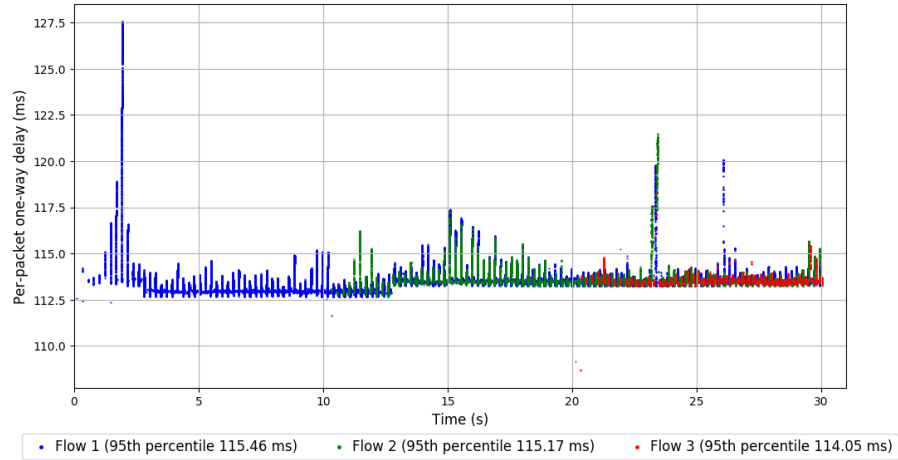
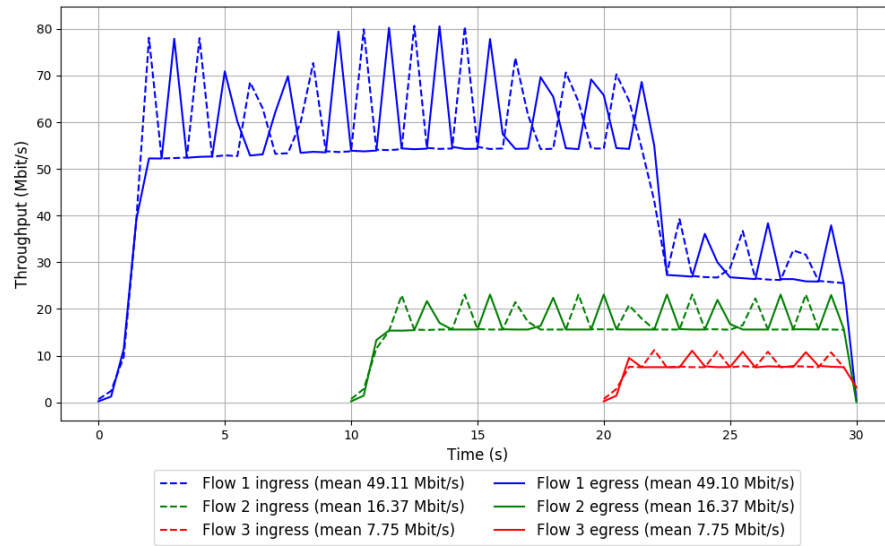
-- Flow 3:

Average throughput: 7.75 Mbit/s

95th percentile per-packet one-way delay: 114.048 ms

Loss rate: 0.00%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-01-02 20:13:30

End at: 2018-01-02 20:14:00

Below is generated by plot.py at 2018-01-02 22:05:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 68.86 Mbit/s

95th percentile per-packet one-way delay: 114.085 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 52.81 Mbit/s

95th percentile per-packet one-way delay: 114.156 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 16.45 Mbit/s

95th percentile per-packet one-way delay: 113.850 ms

Loss rate: 0.00%

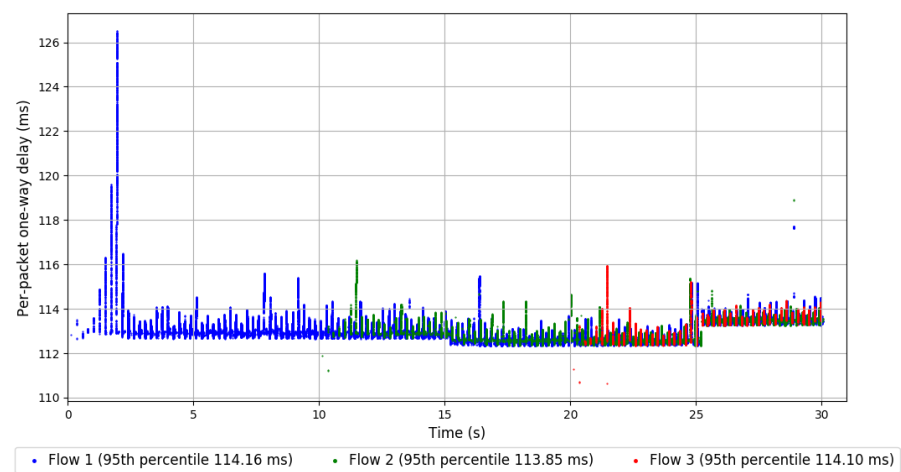
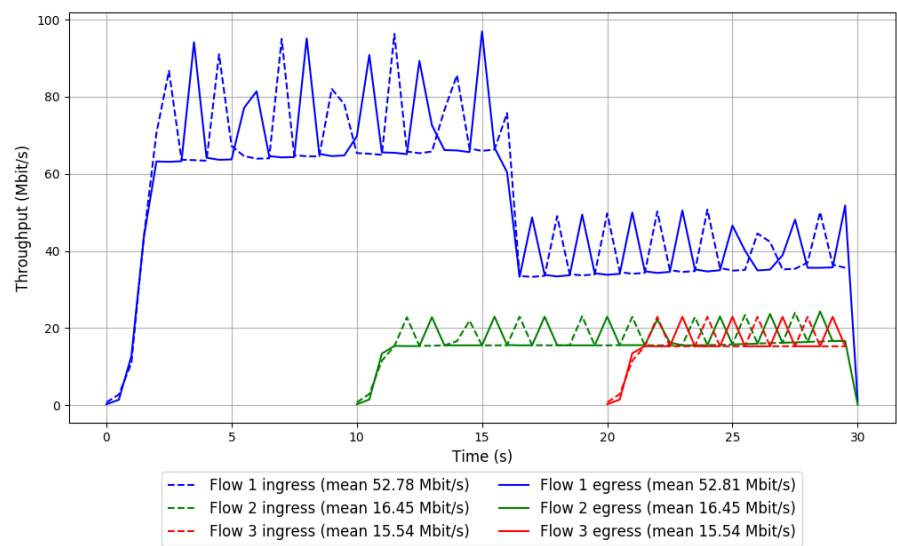
-- Flow 3:

Average throughput: 15.54 Mbit/s

95th percentile per-packet one-way delay: 114.096 ms

Loss rate: 0.00%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-01-02 18:06:57

End at: 2018-01-02 18:07:27

Below is generated by plot.py at 2018-01-02 22:08:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 233.09 Mbit/s

95th percentile per-packet one-way delay: 159.283 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 156.45 Mbit/s

95th percentile per-packet one-way delay: 160.379 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 58.64 Mbit/s

95th percentile per-packet one-way delay: 158.990 ms

Loss rate: 0.00%

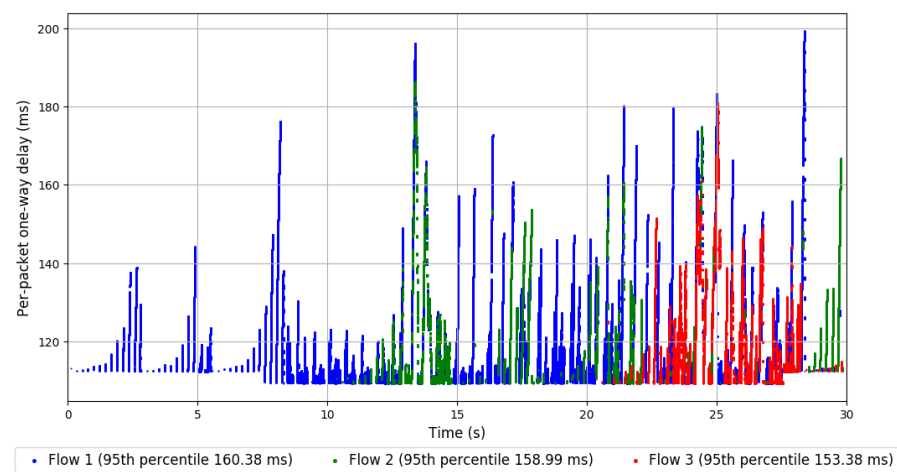
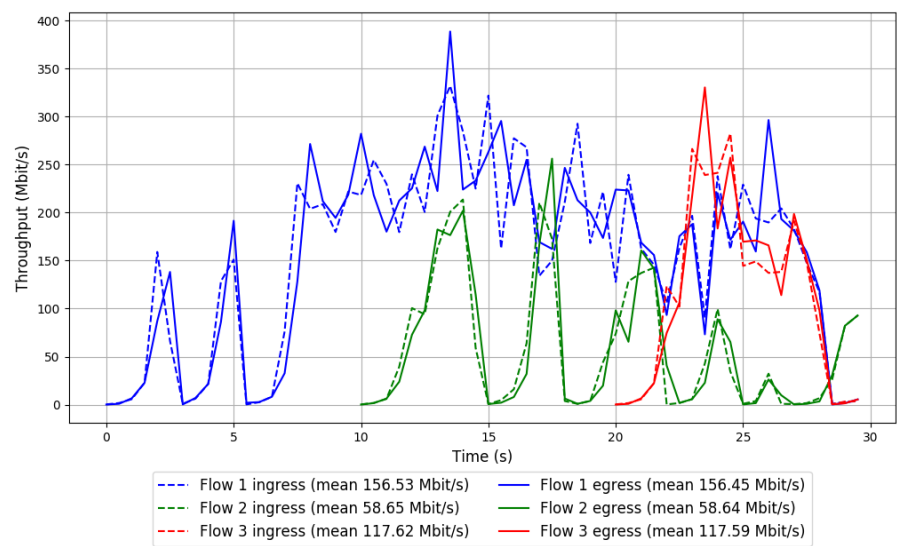
-- Flow 3:

Average throughput: 117.59 Mbit/s

95th percentile per-packet one-way delay: 153.379 ms

Loss rate: 0.00%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-01-02 18:22:22

End at: 2018-01-02 18:22:52

Below is generated by plot.py at 2018-01-02 22:08:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 245.56 Mbit/s

95th percentile per-packet one-way delay: 187.638 ms

Loss rate: 0.38%

-- Flow 1:

Average throughput: 196.84 Mbit/s

95th percentile per-packet one-way delay: 187.396 ms

Loss rate: 0.16%

-- Flow 2:

Average throughput: 51.73 Mbit/s

95th percentile per-packet one-way delay: 213.569 ms

Loss rate: 1.79%

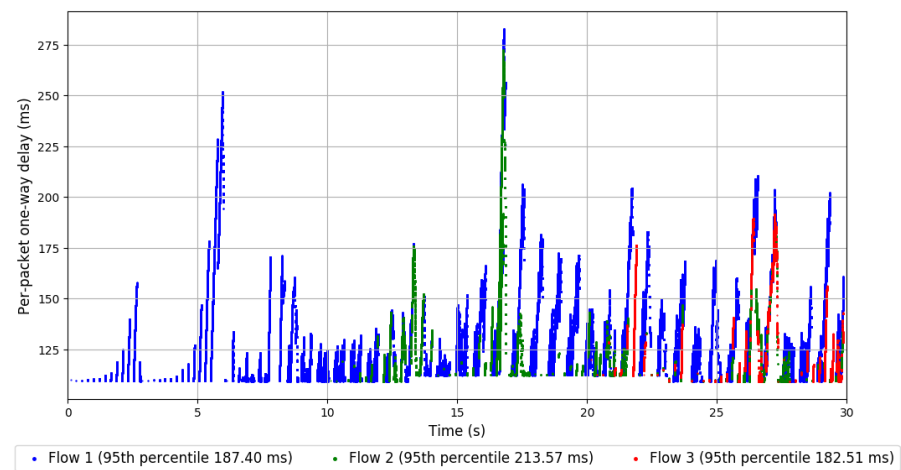
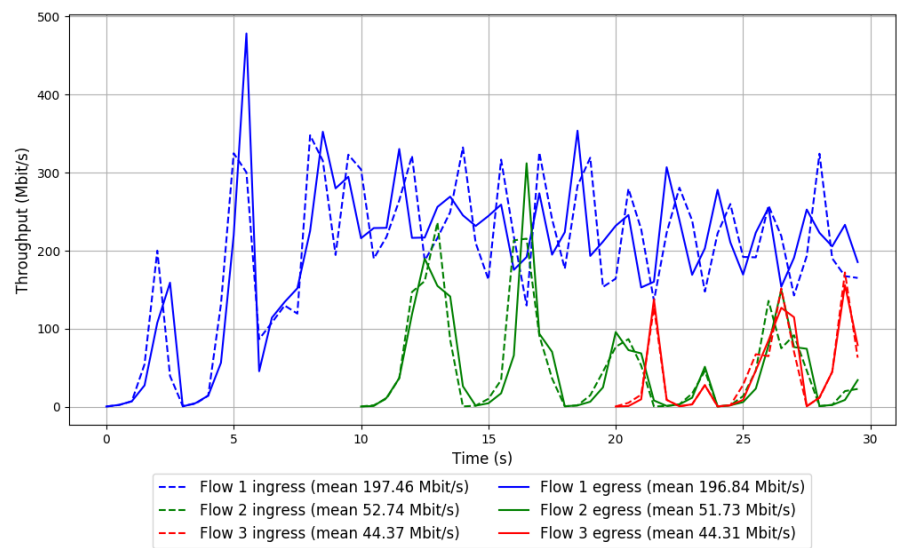
-- Flow 3:

Average throughput: 44.31 Mbit/s

95th percentile per-packet one-way delay: 182.507 ms

Loss rate: 0.00%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-01-02 18:37:52

End at: 2018-01-02 18:38:22

Below is generated by plot.py at 2018-01-02 22:09:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 274.45 Mbit/s

95th percentile per-packet one-way delay: 287.205 ms

Loss rate: 5.42%

-- Flow 1:

Average throughput: 146.97 Mbit/s

95th percentile per-packet one-way delay: 270.581 ms

Loss rate: 3.32%

-- Flow 2:

Average throughput: 146.67 Mbit/s

95th percentile per-packet one-way delay: 225.976 ms

Loss rate: 1.97%

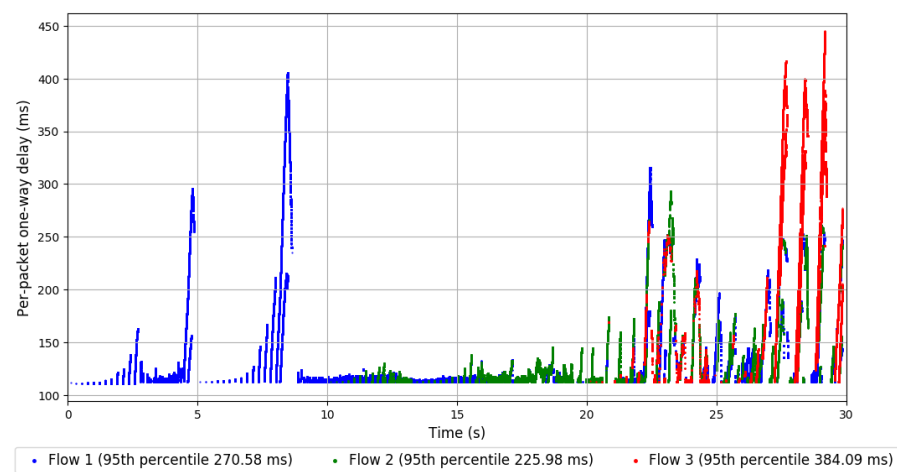
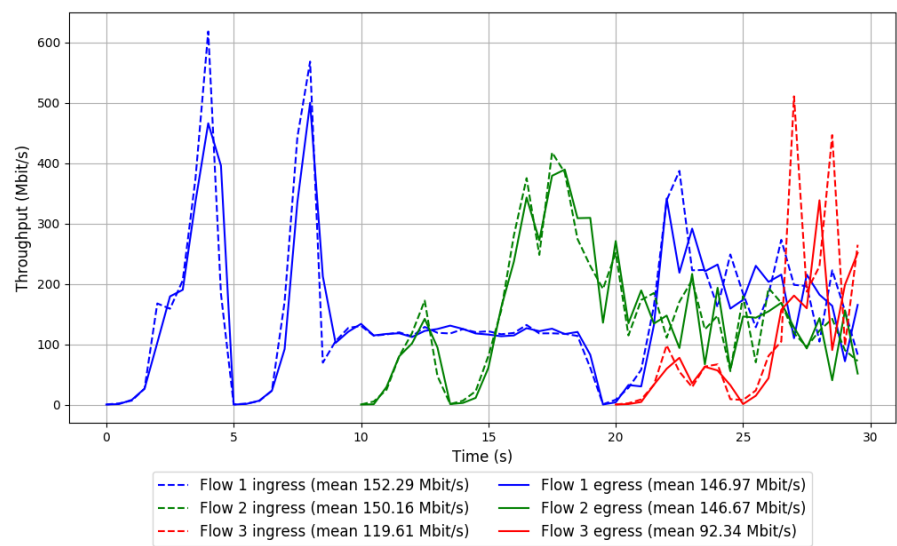
-- Flow 3:

Average throughput: 92.34 Mbit/s

95th percentile per-packet one-way delay: 384.089 ms

Loss rate: 22.44%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-01-02 18:53:22

End at: 2018-01-02 18:53:52

Below is generated by plot.py at 2018-01-02 22:09:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 250.49 Mbit/s

95th percentile per-packet one-way delay: 196.070 ms

Loss rate: 0.42%

-- Flow 1:

Average throughput: 163.17 Mbit/s

95th percentile per-packet one-way delay: 170.249 ms

Loss rate: 0.11%

-- Flow 2:

Average throughput: 114.34 Mbit/s

95th percentile per-packet one-way delay: 253.570 ms

Loss rate: 0.90%

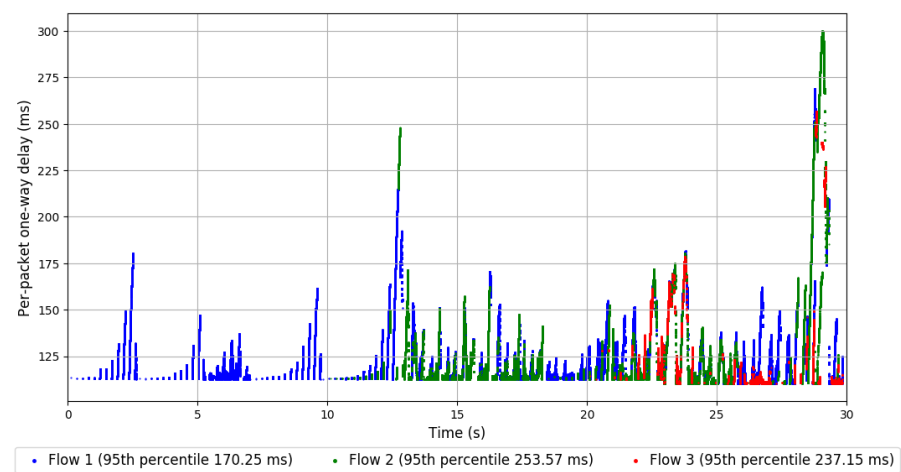
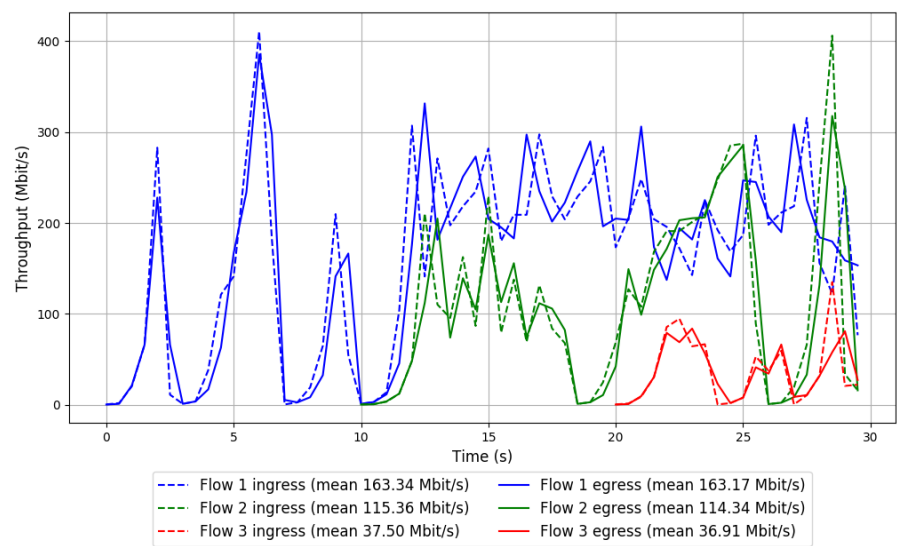
-- Flow 3:

Average throughput: 36.91 Mbit/s

95th percentile per-packet one-way delay: 237.146 ms

Loss rate: 1.62%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-01-02 19:08:59

End at: 2018-01-02 19:09:29

Below is generated by plot.py at 2018-01-02 22:09:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 166.15 Mbit/s

95th percentile per-packet one-way delay: 244.787 ms

Loss rate: 2.17%

-- Flow 1:

Average throughput: 117.78 Mbit/s

95th percentile per-packet one-way delay: 268.738 ms

Loss rate: 2.96%

-- Flow 2:

Average throughput: 53.21 Mbit/s

95th percentile per-packet one-way delay: 224.903 ms

Loss rate: 0.26%

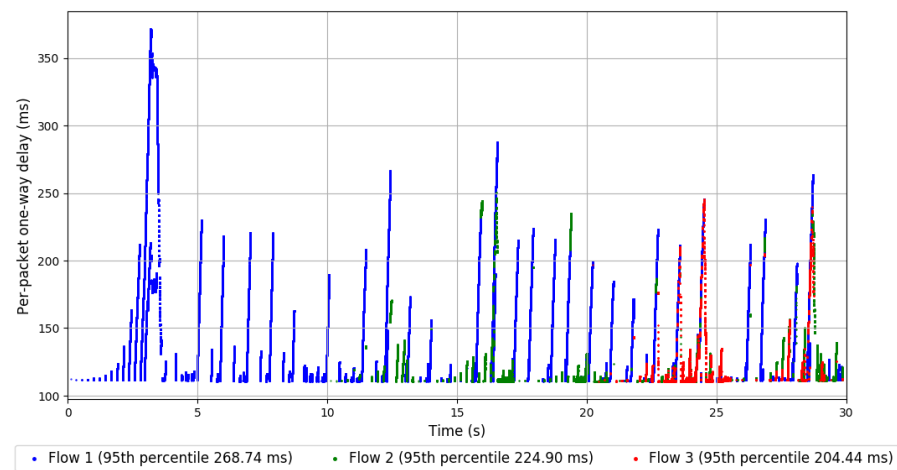
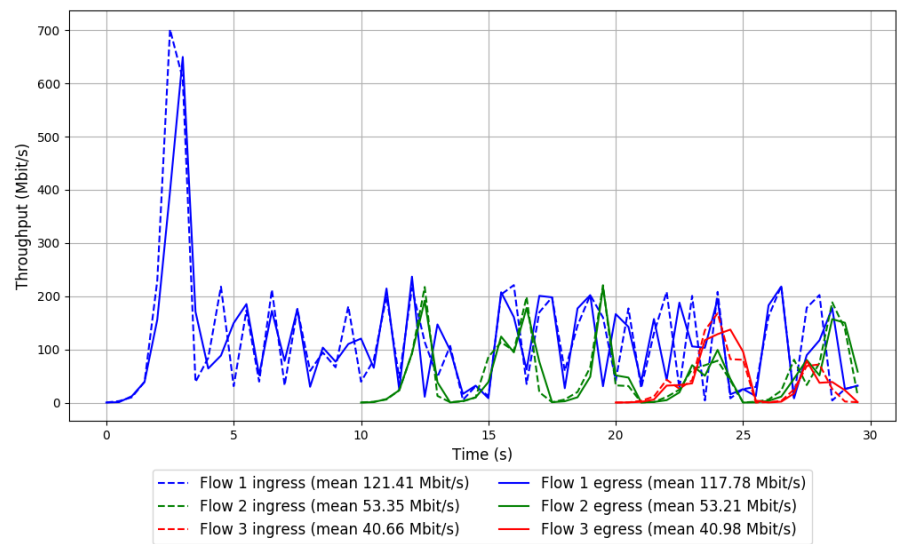
-- Flow 3:

Average throughput: 40.98 Mbit/s

95th percentile per-packet one-way delay: 204.436 ms

Loss rate: 0.08%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-01-02 19:24:27

End at: 2018-01-02 19:24:57

Below is generated by plot.py at 2018-01-02 22:09:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 276.80 Mbit/s

95th percentile per-packet one-way delay: 176.550 ms

Loss rate: 0.27%

-- Flow 1:

Average throughput: 155.74 Mbit/s

95th percentile per-packet one-way delay: 174.168 ms

Loss rate: 0.30%

-- Flow 2:

Average throughput: 138.48 Mbit/s

95th percentile per-packet one-way delay: 154.251 ms

Loss rate: 0.15%

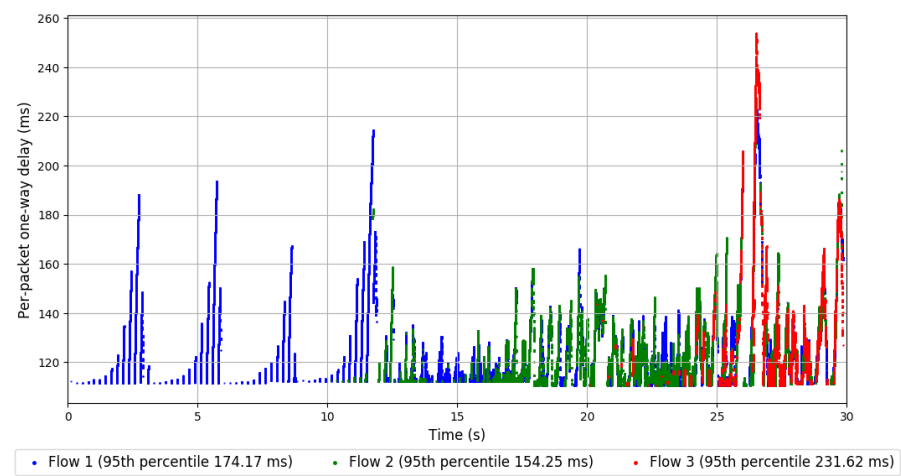
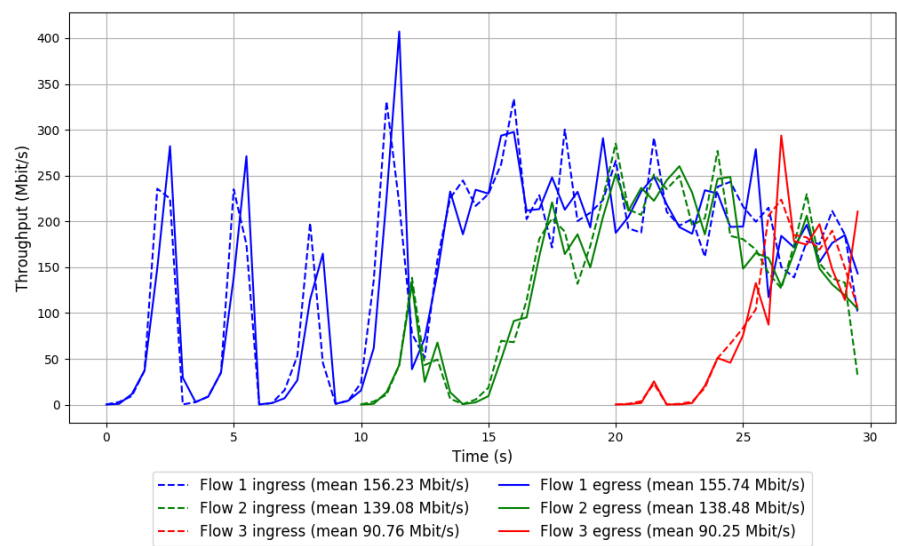
-- Flow 3:

Average throughput: 90.25 Mbit/s

95th percentile per-packet one-way delay: 231.615 ms

Loss rate: 0.45%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-01-02 19:40:01

End at: 2018-01-02 19:40:31

Below is generated by plot.py at 2018-01-02 22:09:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 269.47 Mbit/s

95th percentile per-packet one-way delay: 174.029 ms

Loss rate: 0.63%

-- Flow 1:

Average throughput: 170.40 Mbit/s

95th percentile per-packet one-way delay: 159.132 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 130.04 Mbit/s

95th percentile per-packet one-way delay: 182.873 ms

Loss rate: 0.20%

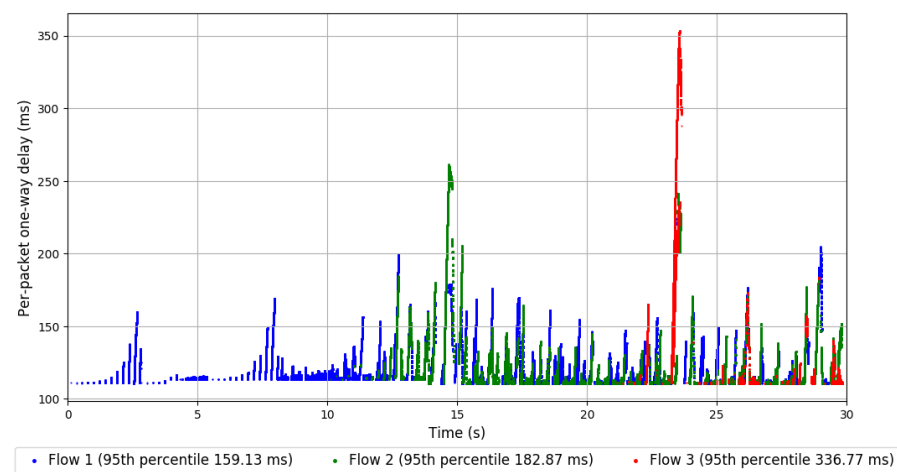
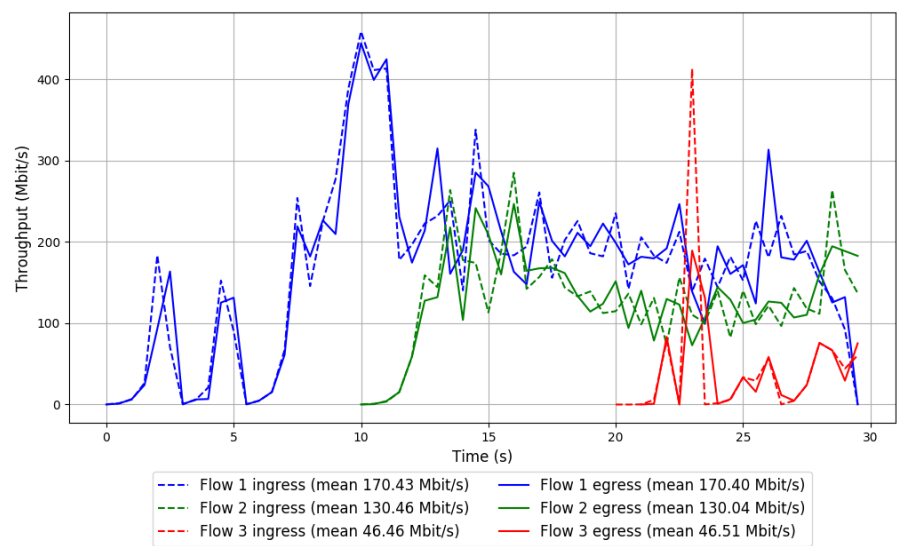
-- Flow 3:

Average throughput: 46.51 Mbit/s

95th percentile per-packet one-way delay: 336.774 ms

Loss rate: 10.22%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-01-02 19:55:14

End at: 2018-01-02 19:55:44

Below is generated by plot.py at 2018-01-02 22:12:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 421.13 Mbit/s

95th percentile per-packet one-way delay: 234.505 ms

Loss rate: 0.86%

-- Flow 1:

Average throughput: 257.19 Mbit/s

95th percentile per-packet one-way delay: 209.261 ms

Loss rate: 0.55%

-- Flow 2:

Average throughput: 204.46 Mbit/s

95th percentile per-packet one-way delay: 262.446 ms

Loss rate: 1.31%

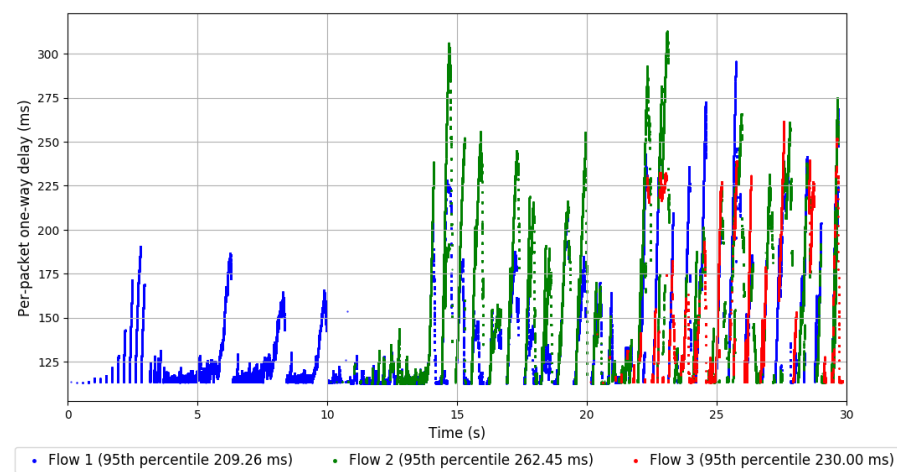
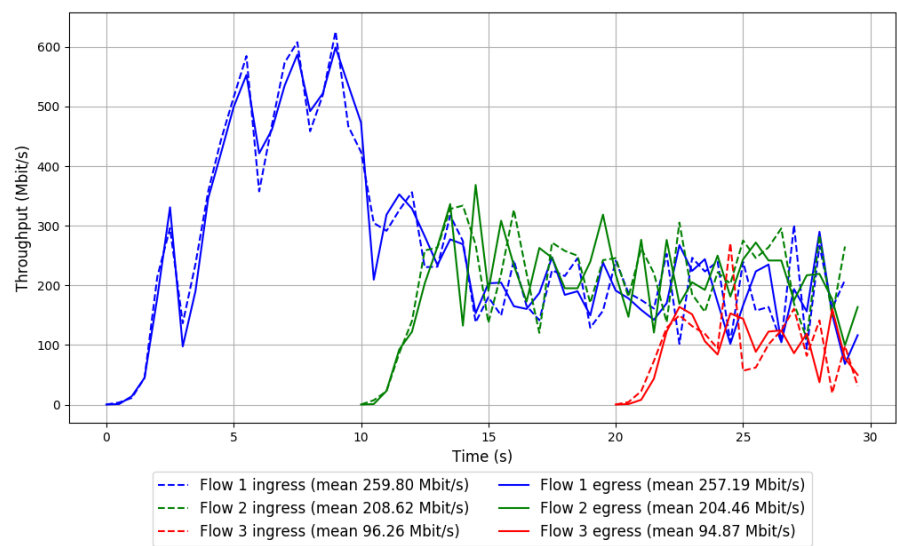
-- Flow 3:

Average throughput: 94.87 Mbit/s

95th percentile per-packet one-way delay: 229.996 ms

Loss rate: 1.45%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-01-02 20:10:30

End at: 2018-01-02 20:11:00

Below is generated by plot.py at 2018-01-02 22:13:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 308.34 Mbit/s

95th percentile per-packet one-way delay: 248.111 ms

Loss rate: 3.49%

-- Flow 1:

Average throughput: 208.11 Mbit/s

95th percentile per-packet one-way delay: 230.290 ms

Loss rate: 3.99%

-- Flow 2:

Average throughput: 140.80 Mbit/s

95th percentile per-packet one-way delay: 285.268 ms

Loss rate: 2.45%

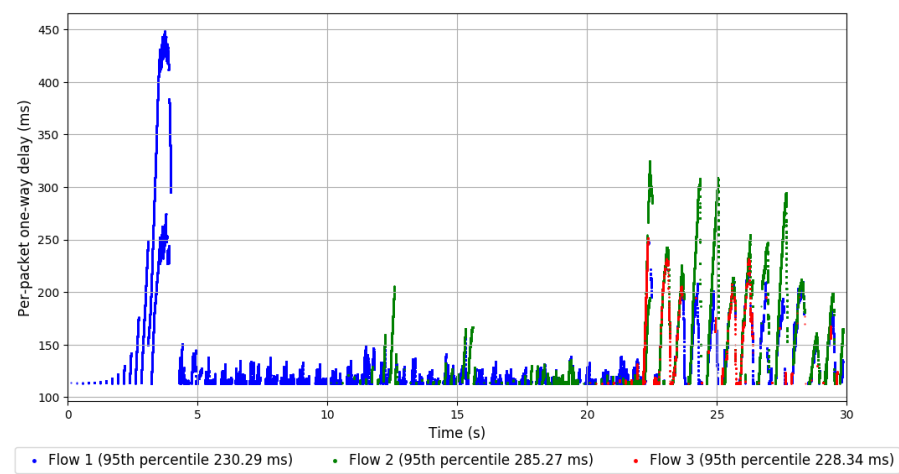
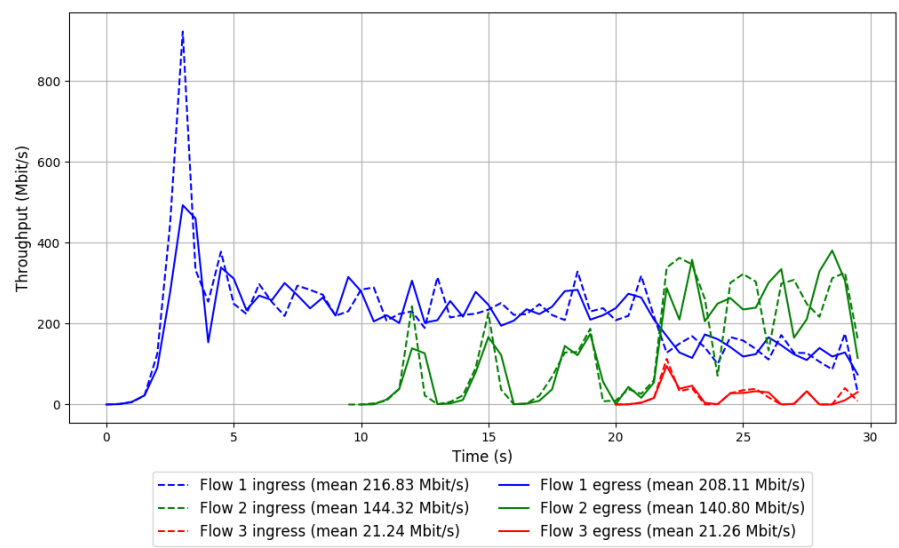
-- Flow 3:

Average throughput: 21.26 Mbit/s

95th percentile per-packet one-way delay: 228.339 ms

Loss rate: 2.28%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-01-02 20:25:57

End at: 2018-01-02 20:26:27

Below is generated by plot.py at 2018-01-02 22:13:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 216.97 Mbit/s

95th percentile per-packet one-way delay: 189.369 ms

Loss rate: 2.17%

-- Flow 1:

Average throughput: 154.18 Mbit/s

95th percentile per-packet one-way delay: 230.768 ms

Loss rate: 3.03%

-- Flow 2:

Average throughput: 78.80 Mbit/s

95th percentile per-packet one-way delay: 137.852 ms

Loss rate: 0.00%

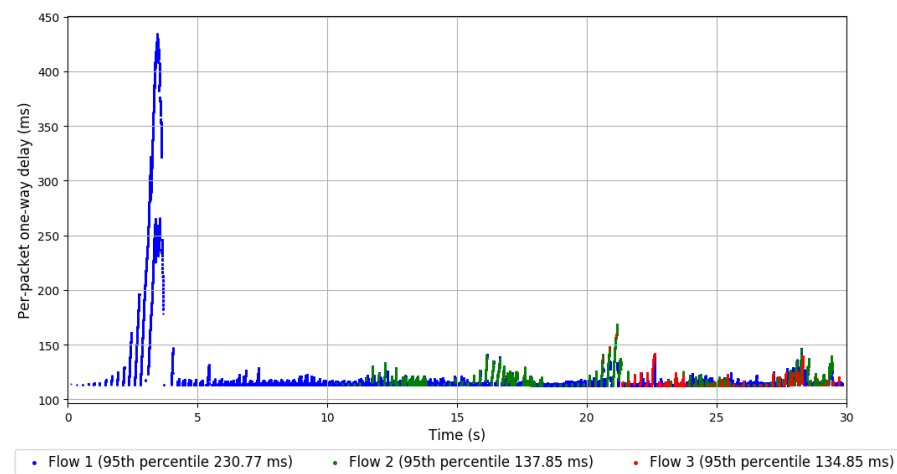
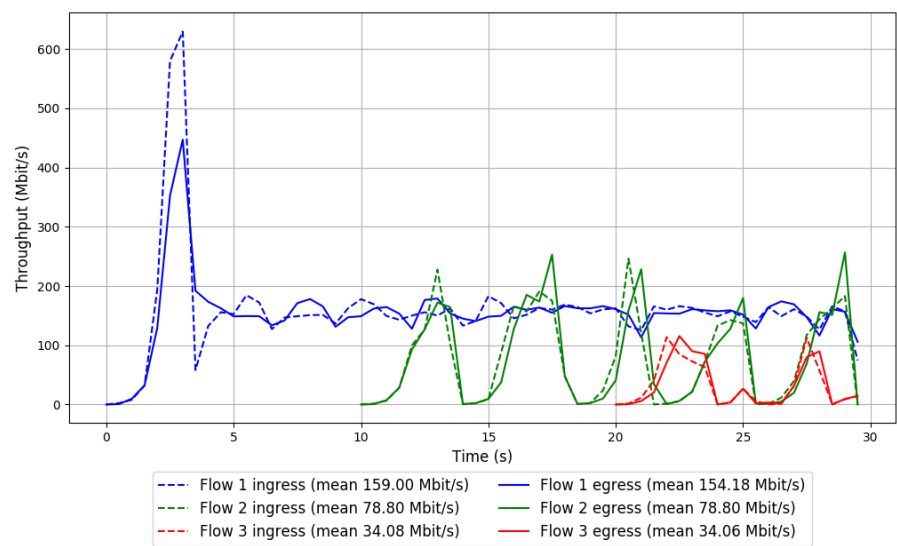
-- Flow 3:

Average throughput: 34.06 Mbit/s

95th percentile per-packet one-way delay: 134.847 ms

Loss rate: 0.00%

Run 10: Report of Verus — Data Link

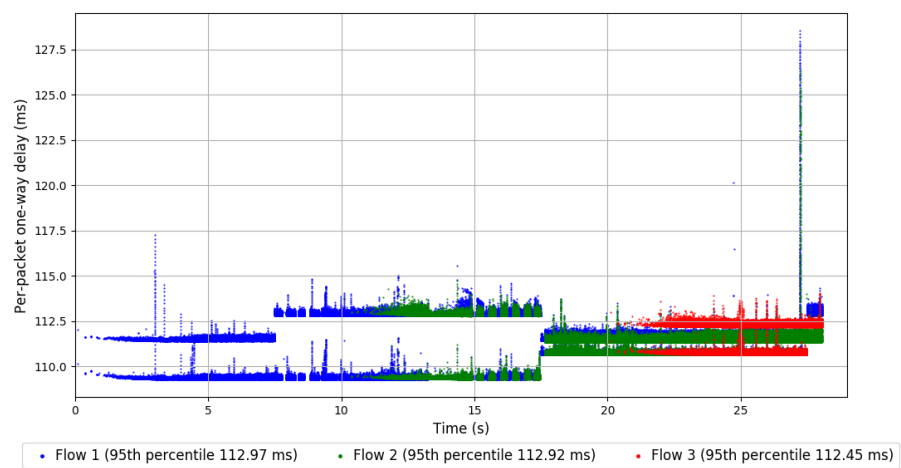
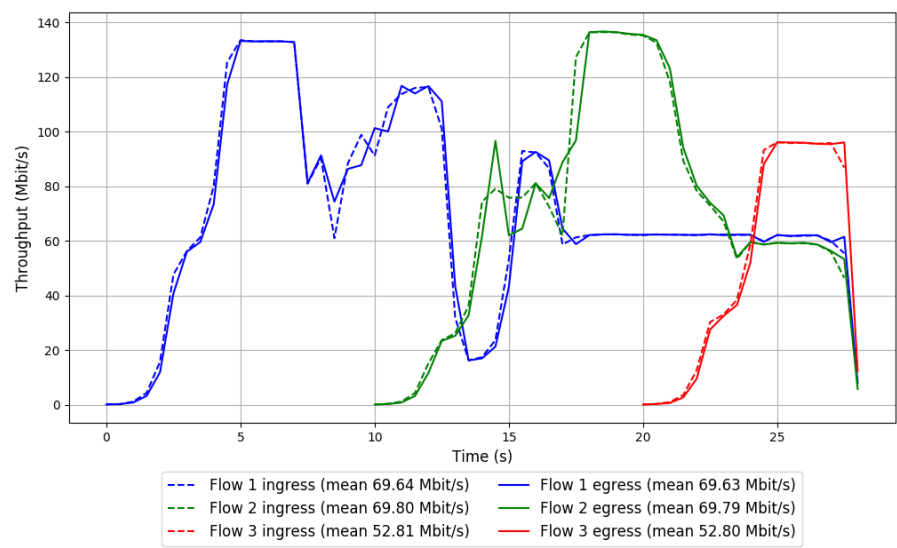


```
Run 1: Statistics of Copa

Start at: 2018-01-02 18:01:25
End at: 2018-01-02 18:01:55

# Below is generated by plot.py at 2018-01-02 22:13:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 129.42 Mbit/s
95th percentile per-packet one-way delay: 112.940 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 69.63 Mbit/s
95th percentile per-packet one-way delay: 112.971 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 69.79 Mbit/s
95th percentile per-packet one-way delay: 112.918 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 52.80 Mbit/s
95th percentile per-packet one-way delay: 112.455 ms
Loss rate: 0.00%
```

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-01-02 18:16:49

End at: 2018-01-02 18:17:19

Below is generated by plot.py at 2018-01-02 22:13:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 117.11 Mbit/s

95th percentile per-packet one-way delay: 112.379 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 65.94 Mbit/s

95th percentile per-packet one-way delay: 112.289 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 55.63 Mbit/s

95th percentile per-packet one-way delay: 112.403 ms

Loss rate: 0.00%

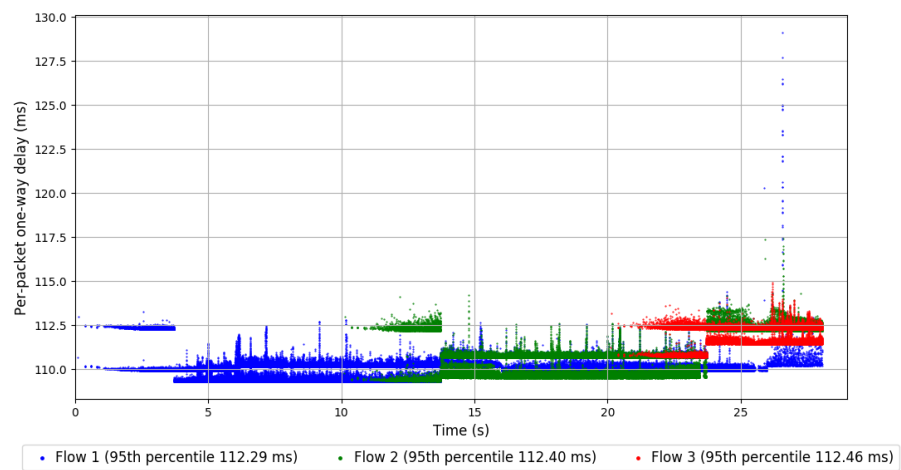
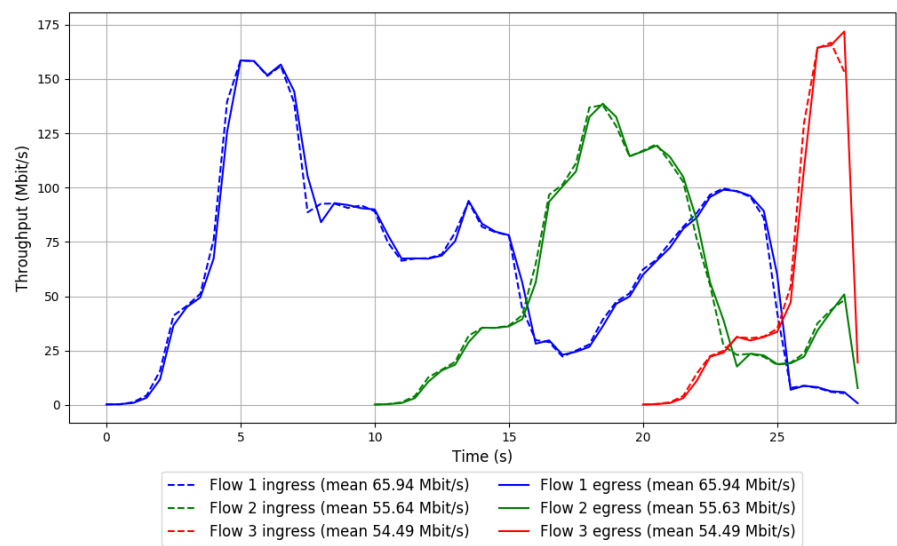
-- Flow 3:

Average throughput: 54.49 Mbit/s

95th percentile per-packet one-way delay: 112.462 ms

Loss rate: 0.00%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-01-02 18:32:28

End at: 2018-01-02 18:32:58

Below is generated by plot.py at 2018-01-02 22:13:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 135.37 Mbit/s

95th percentile per-packet one-way delay: 112.718 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 68.09 Mbit/s

95th percentile per-packet one-way delay: 112.707 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 76.47 Mbit/s

95th percentile per-packet one-way delay: 112.762 ms

Loss rate: 0.00%

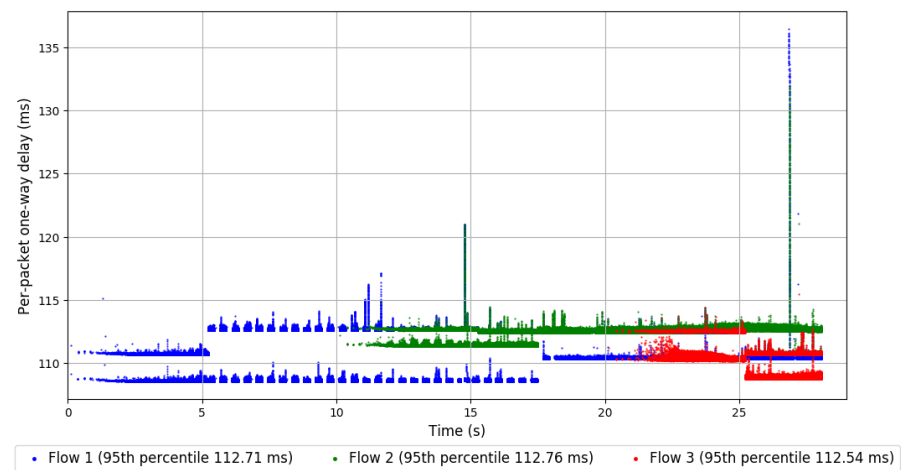
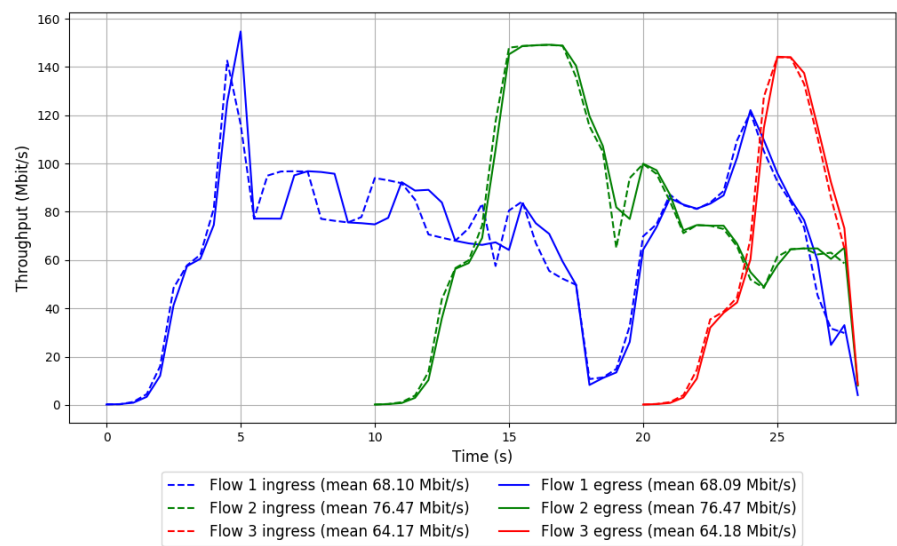
-- Flow 3:

Average throughput: 64.18 Mbit/s

95th percentile per-packet one-way delay: 112.541 ms

Loss rate: 0.00%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-01-02 18:47:52

End at: 2018-01-02 18:48:22

Below is generated by plot.py at 2018-01-02 22:13:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 109.26 Mbit/s

95th percentile per-packet one-way delay: 112.728 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 41.68 Mbit/s

95th percentile per-packet one-way delay: 112.716 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 74.13 Mbit/s

95th percentile per-packet one-way delay: 112.706 ms

Loss rate: 0.00%

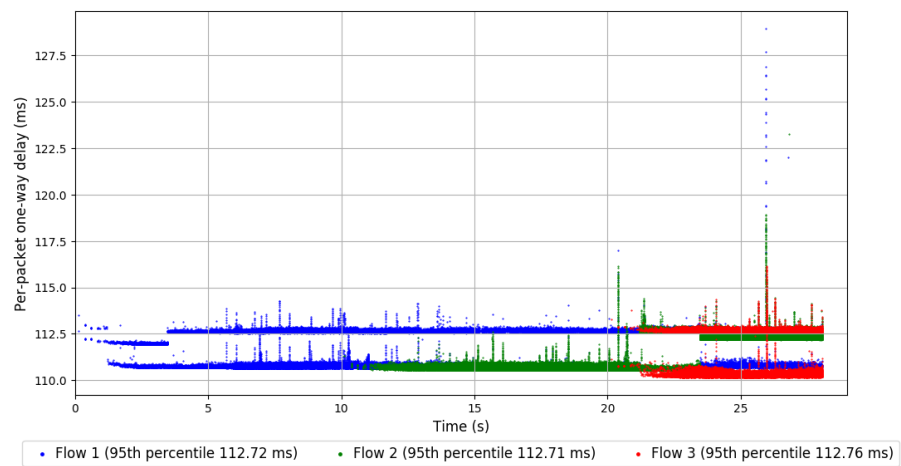
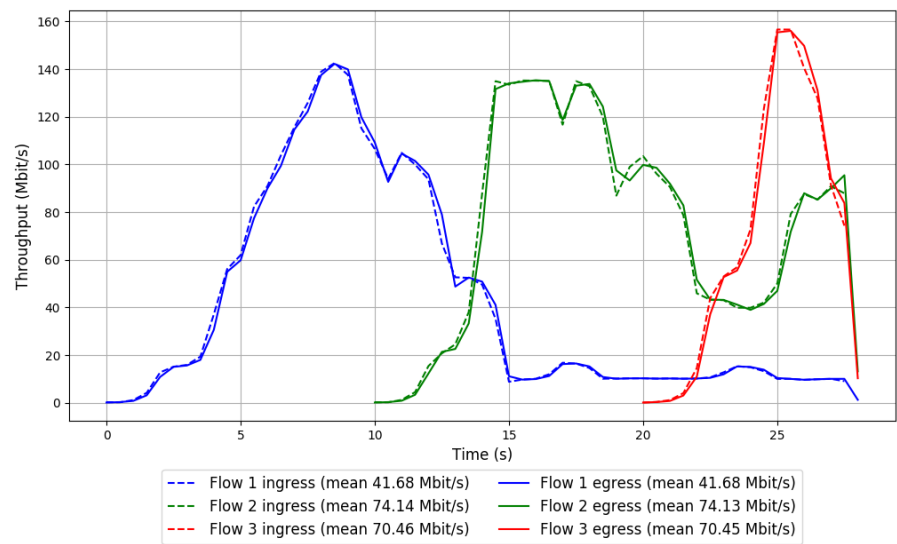
-- Flow 3:

Average throughput: 70.45 Mbit/s

95th percentile per-packet one-way delay: 112.764 ms

Loss rate: 0.00%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-01-02 19:03:26

End at: 2018-01-02 19:03:56

Below is generated by plot.py at 2018-01-02 22:13:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 138.01 Mbit/s

95th percentile per-packet one-way delay: 112.354 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 78.60 Mbit/s

95th percentile per-packet one-way delay: 112.291 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 63.70 Mbit/s

95th percentile per-packet one-way delay: 112.474 ms

Loss rate: 0.00%

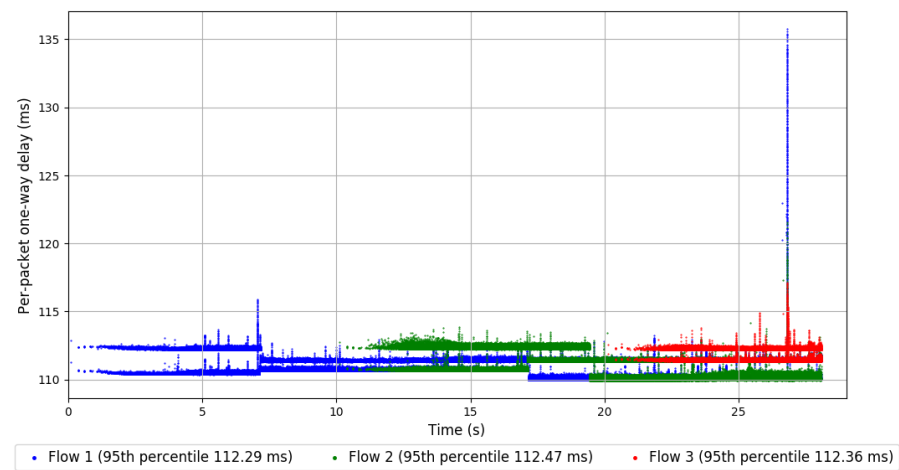
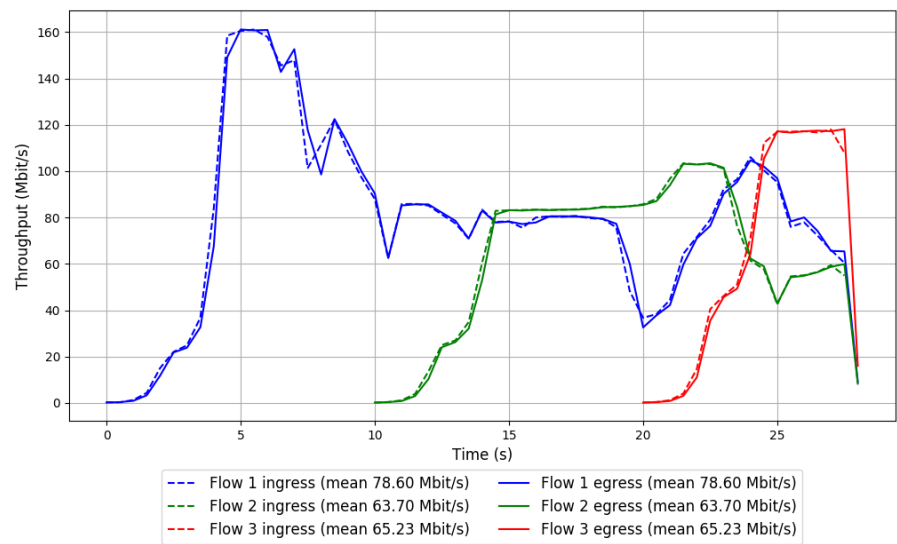
-- Flow 3:

Average throughput: 65.23 Mbit/s

95th percentile per-packet one-way delay: 112.363 ms

Loss rate: 0.00%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-01-02 19:18:56

End at: 2018-01-02 19:19:26

Below is generated by plot.py at 2018-01-02 22:15:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 115.54 Mbit/s

95th percentile per-packet one-way delay: 112.393 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 49.10 Mbit/s

95th percentile per-packet one-way delay: 112.290 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 69.29 Mbit/s

95th percentile per-packet one-way delay: 112.501 ms

Loss rate: 0.00%

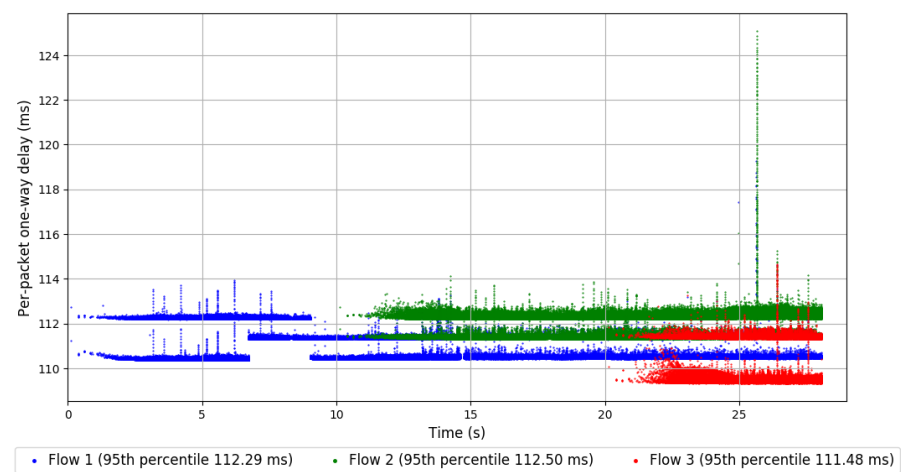
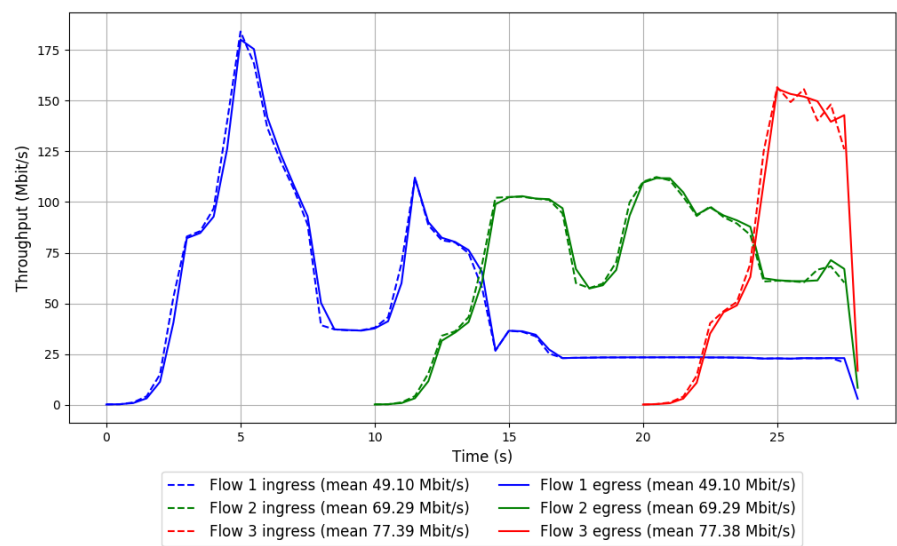
-- Flow 3:

Average throughput: 77.38 Mbit/s

95th percentile per-packet one-way delay: 111.484 ms

Loss rate: 0.00%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-01-02 19:34:33

End at: 2018-01-02 19:35:03

Below is generated by plot.py at 2018-01-02 22:15:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 128.20 Mbit/s

95th percentile per-packet one-way delay: 112.876 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 58.55 Mbit/s

95th percentile per-packet one-way delay: 112.877 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 80.63 Mbit/s

95th percentile per-packet one-way delay: 112.891 ms

Loss rate: 0.00%

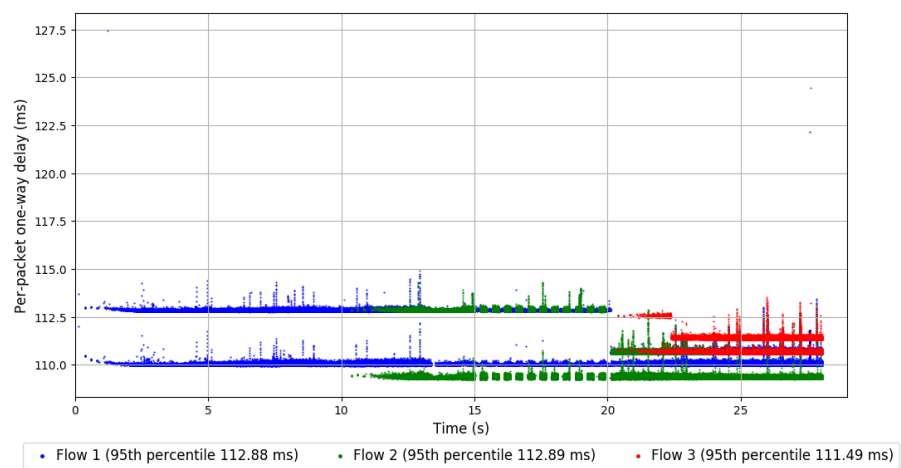
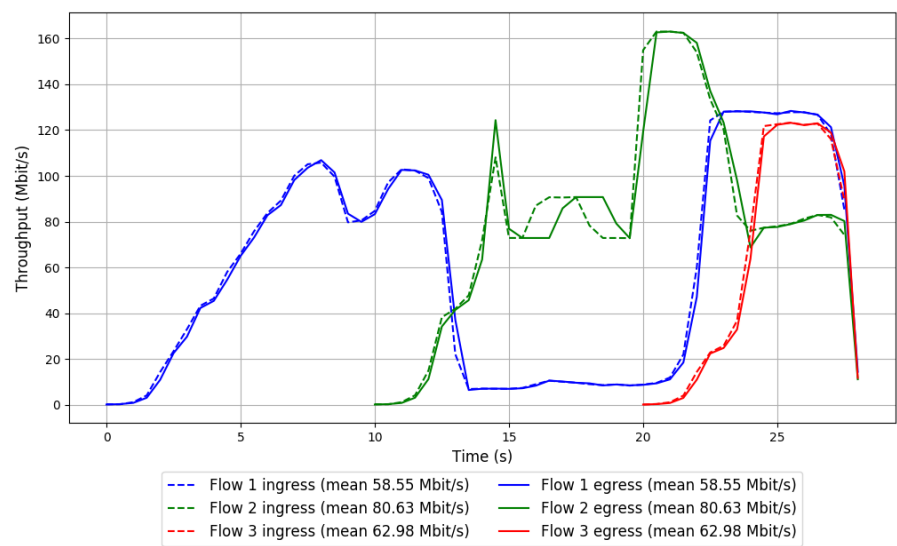
-- Flow 3:

Average throughput: 62.98 Mbit/s

95th percentile per-packet one-way delay: 111.487 ms

Loss rate: 0.00%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-01-02 19:49:46

End at: 2018-01-02 19:50:16

Below is generated by plot.py at 2018-01-02 22:15:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 144.91 Mbit/s

95th percentile per-packet one-way delay: 112.829 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 80.09 Mbit/s

95th percentile per-packet one-way delay: 112.833 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 68.98 Mbit/s

95th percentile per-packet one-way delay: 112.825 ms

Loss rate: 0.00%

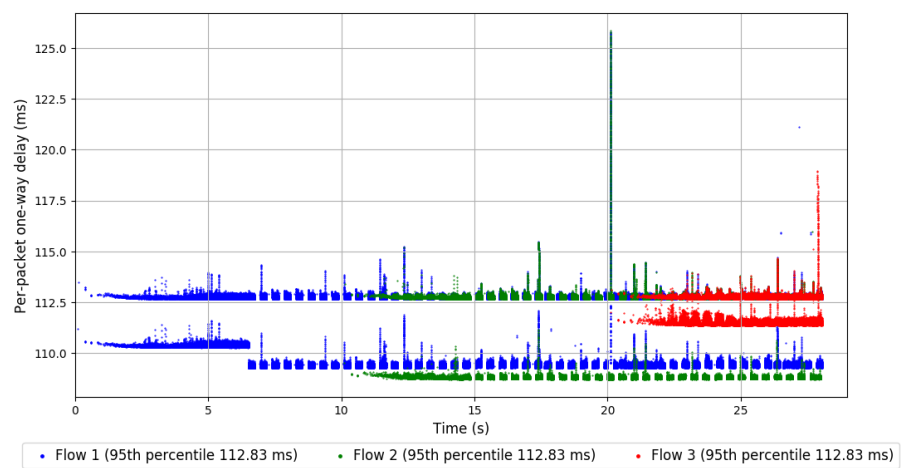
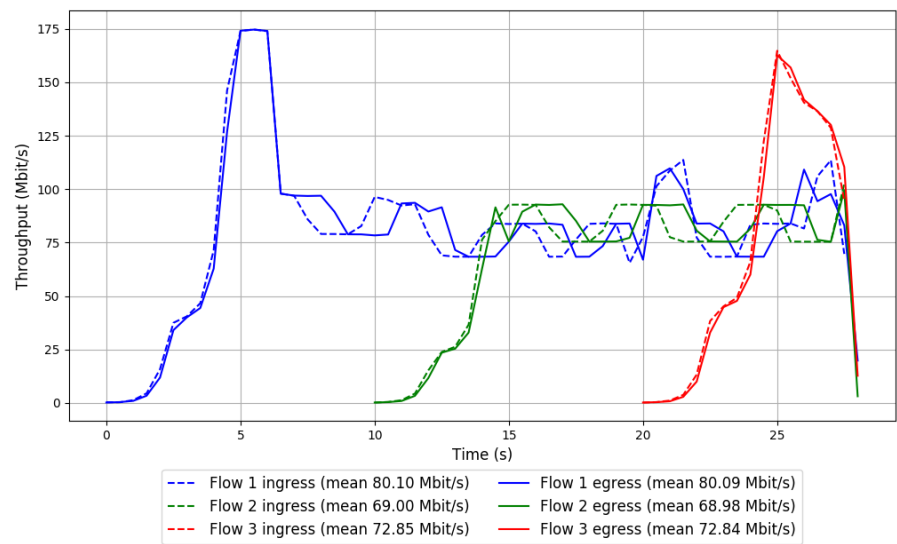
-- Flow 3:

Average throughput: 72.84 Mbit/s

95th percentile per-packet one-way delay: 112.825 ms

Loss rate: 0.04%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-01-02 20:05:03

End at: 2018-01-02 20:05:33

Below is generated by plot.py at 2018-01-02 22:15:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 125.44 Mbit/s

95th percentile per-packet one-way delay: 113.500 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 71.10 Mbit/s

95th percentile per-packet one-way delay: 113.391 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 64.70 Mbit/s

95th percentile per-packet one-way delay: 113.634 ms

Loss rate: 0.01%

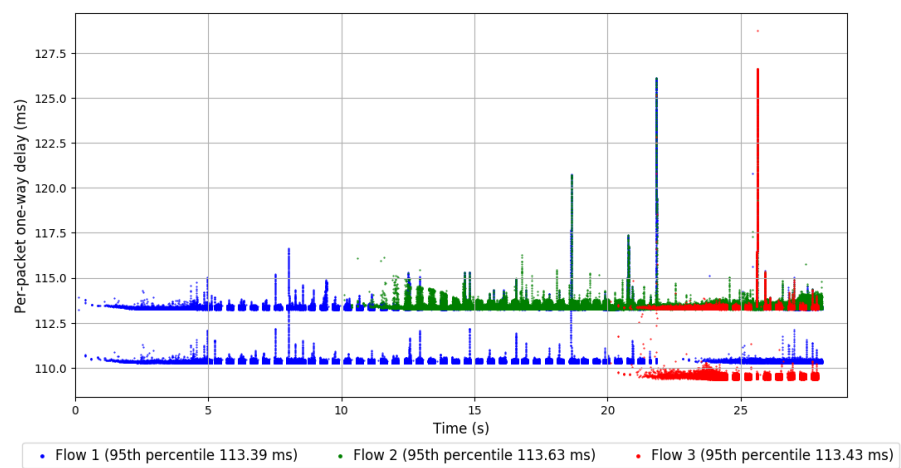
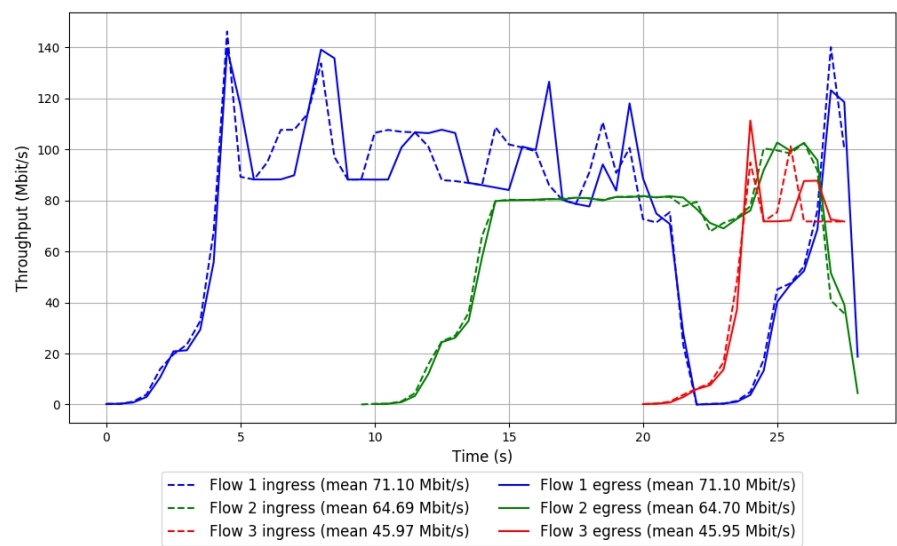
-- Flow 3:

Average throughput: 45.95 Mbit/s

95th percentile per-packet one-way delay: 113.432 ms

Loss rate: 0.00%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-01-02 20:20:29

End at: 2018-01-02 20:20:59

Below is generated by plot.py at 2018-01-02 22:15:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 129.87 Mbit/s

95th percentile per-packet one-way delay: 114.198 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 73.70 Mbit/s

95th percentile per-packet one-way delay: 113.359 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 69.82 Mbit/s

95th percentile per-packet one-way delay: 114.254 ms

Loss rate: 0.01%

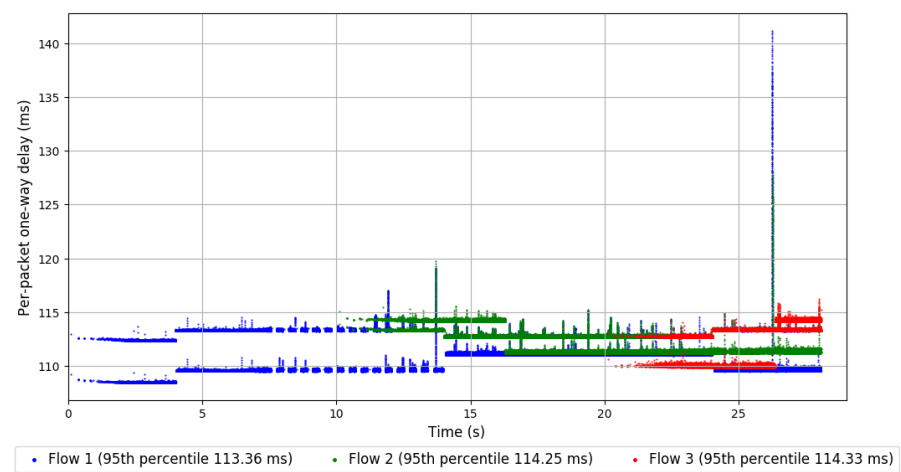
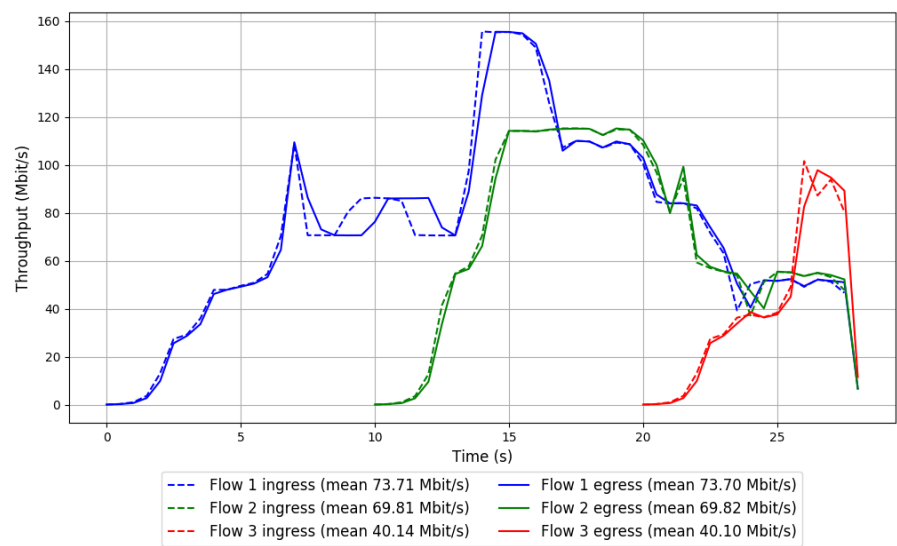
-- Flow 3:

Average throughput: 40.10 Mbit/s

95th percentile per-packet one-way delay: 114.329 ms

Loss rate: 0.07%

Run 10: Report of Copa — Data Link

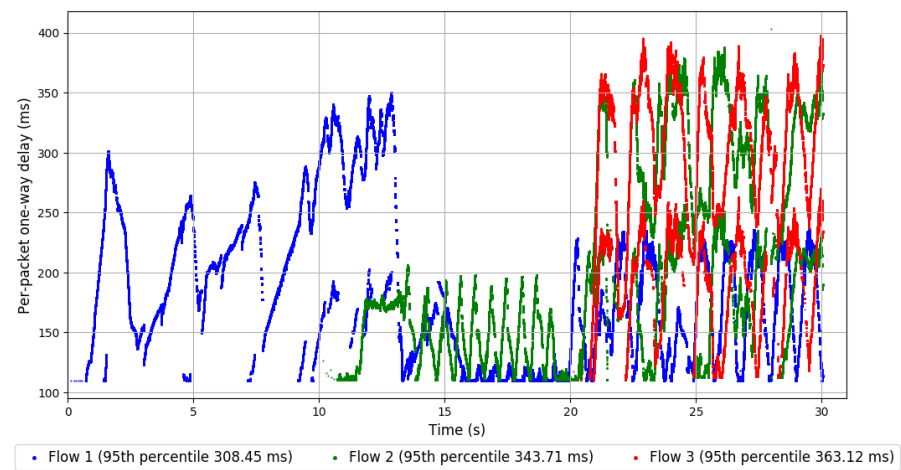
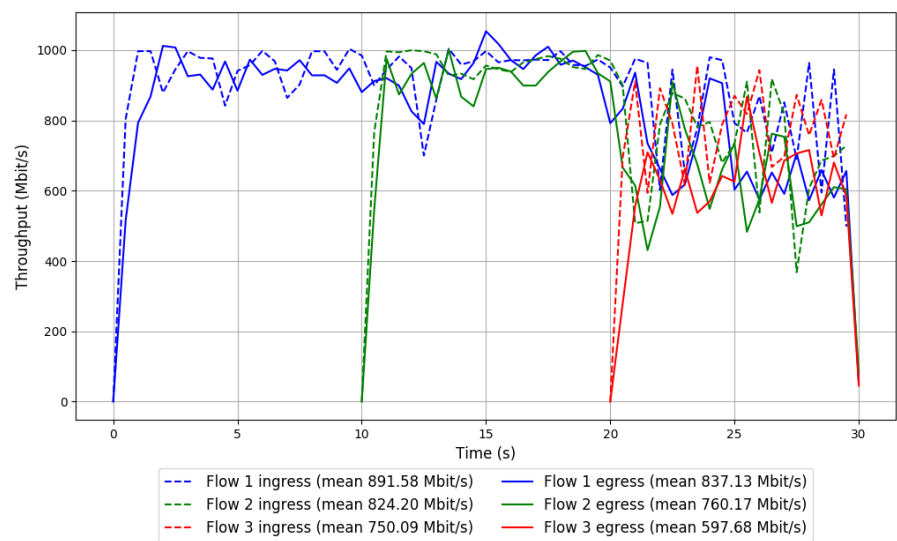


```
Run 1: Statistics of FillP

Start at: 2018-01-02 17:55:20
End at: 2018-01-02 17:55:50

# Below is generated by plot.py at 2018-01-02 22:39:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1540.28 Mbit/s
95th percentile per-packet one-way delay: 337.532 ms
Loss rate: 8.76%
-- Flow 1:
Average throughput: 837.13 Mbit/s
95th percentile per-packet one-way delay: 308.449 ms
Loss rate: 6.10%
-- Flow 2:
Average throughput: 760.17 Mbit/s
95th percentile per-packet one-way delay: 343.715 ms
Loss rate: 7.84%
-- Flow 3:
Average throughput: 597.68 Mbit/s
95th percentile per-packet one-way delay: 363.120 ms
Loss rate: 20.36%
```


Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-01-02 18:10:43

End at: 2018-01-02 18:11:13

Below is generated by plot.py at 2018-01-02 22:40:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 1631.35 Mbit/s

95th percentile per-packet one-way delay: 209.571 ms

Loss rate: 5.82%

-- Flow 1:

Average throughput: 891.25 Mbit/s

95th percentile per-packet one-way delay: 188.243 ms

Loss rate: 3.62%

-- Flow 2:

Average throughput: 784.53 Mbit/s

95th percentile per-packet one-way delay: 233.283 ms

Loss rate: 6.29%

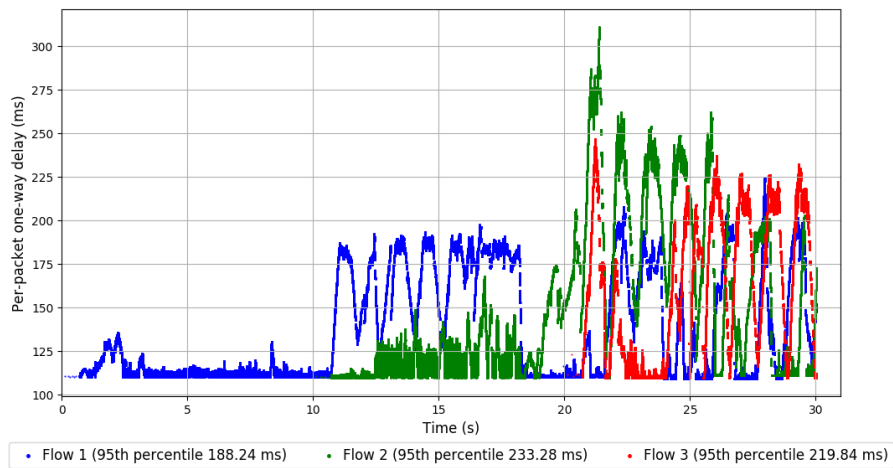
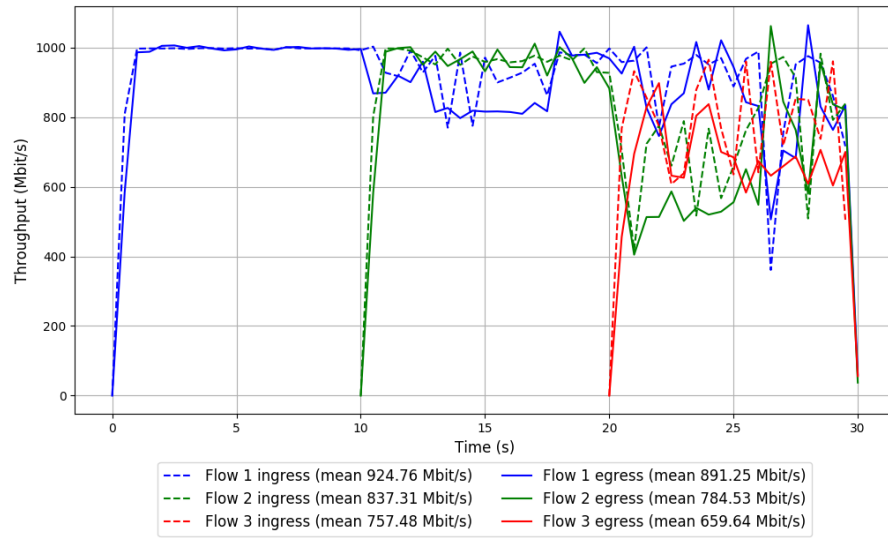
-- Flow 3:

Average throughput: 659.64 Mbit/s

95th percentile per-packet one-way delay: 219.838 ms

Loss rate: 12.91%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-01-02 18:26:26

End at: 2018-01-02 18:26:56

Below is generated by plot.py at 2018-01-02 22:41:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 1623.83 Mbit/s

95th percentile per-packet one-way delay: 212.171 ms

Loss rate: 7.06%

-- Flow 1:

Average throughput: 895.28 Mbit/s

95th percentile per-packet one-way delay: 205.031 ms

Loss rate: 4.22%

-- Flow 2:

Average throughput: 756.94 Mbit/s

95th percentile per-packet one-way delay: 218.088 ms

Loss rate: 8.84%

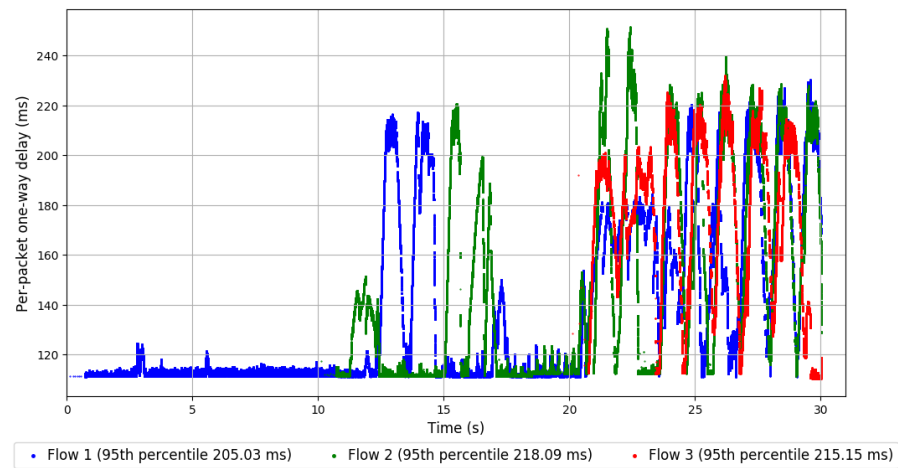
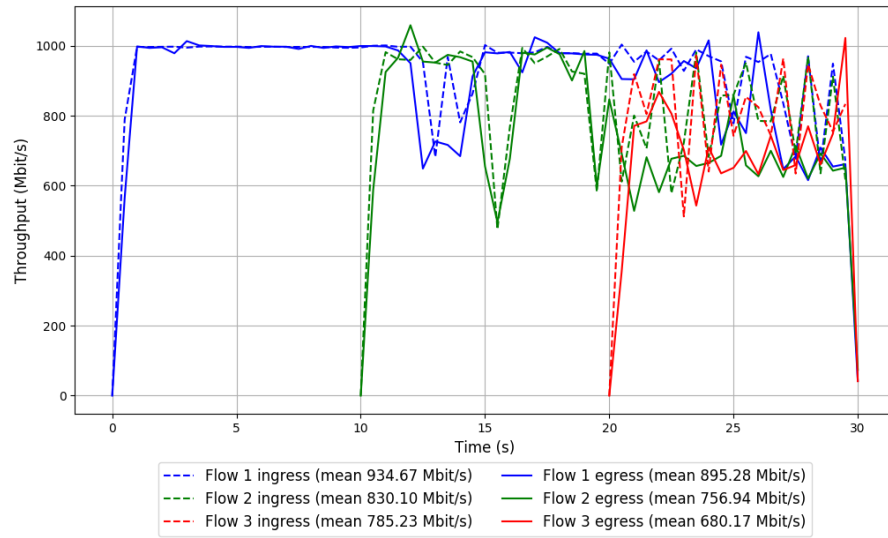
-- Flow 3:

Average throughput: 680.17 Mbit/s

95th percentile per-packet one-way delay: 215.151 ms

Loss rate: 13.53%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-01-02 18:41:50

End at: 2018-01-02 18:42:20

Below is generated by plot.py at 2018-01-02 22:42:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 1611.22 Mbit/s

95th percentile per-packet one-way delay: 229.329 ms

Loss rate: 7.44%

-- Flow 1:

Average throughput: 878.55 Mbit/s

95th percentile per-packet one-way delay: 199.660 ms

Loss rate: 4.65%

-- Flow 2:

Average throughput: 712.15 Mbit/s

95th percentile per-packet one-way delay: 281.782 ms

Loss rate: 11.42%

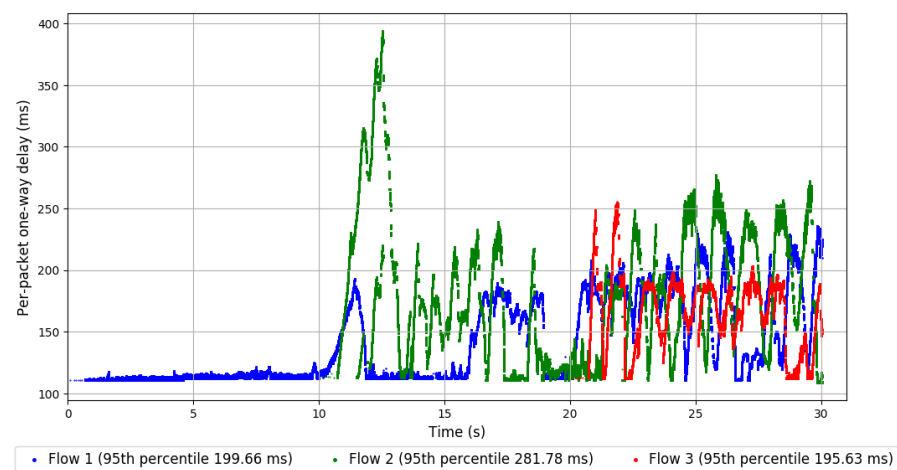
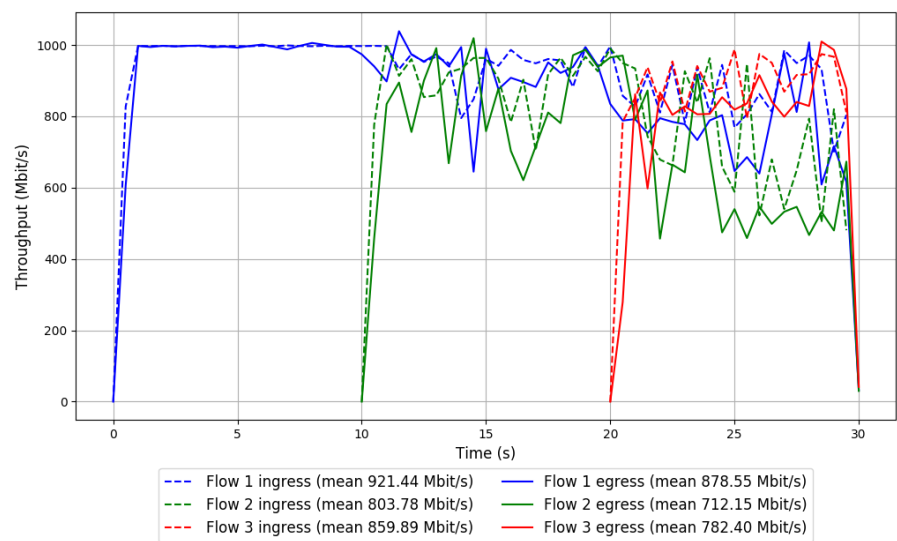
-- Flow 3:

Average throughput: 782.40 Mbit/s

95th percentile per-packet one-way delay: 195.628 ms

Loss rate: 9.02%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-01-02 18:57:22

End at: 2018-01-02 18:57:52

Below is generated by plot.py at 2018-01-02 22:42:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 1526.08 Mbit/s

95th percentile per-packet one-way delay: 225.066 ms

Loss rate: 9.57%

-- Flow 1:

Average throughput: 801.14 Mbit/s

95th percentile per-packet one-way delay: 218.594 ms

Loss rate: 7.65%

-- Flow 2:

Average throughput: 740.00 Mbit/s

95th percentile per-packet one-way delay: 263.451 ms

Loss rate: 10.81%

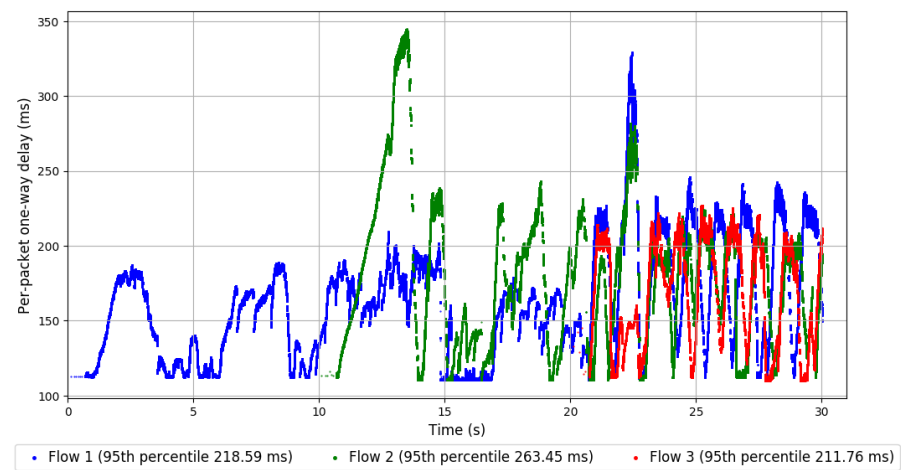
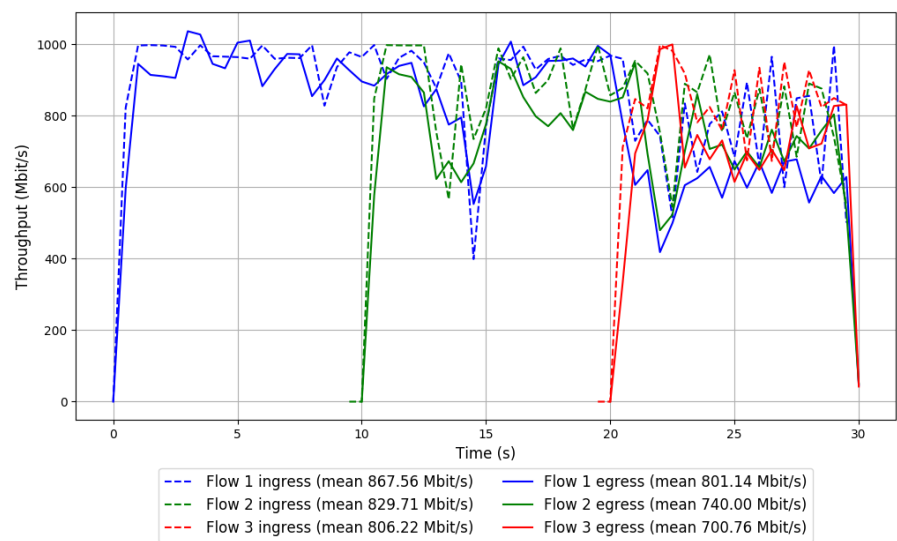
-- Flow 3:

Average throughput: 700.76 Mbit/s

95th percentile per-packet one-way delay: 211.760 ms

Loss rate: 13.25%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-01-02 19:12:52

End at: 2018-01-02 19:13:22

Below is generated by plot.py at 2018-01-02 22:44:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 1626.33 Mbit/s

95th percentile per-packet one-way delay: 261.104 ms

Loss rate: 6.66%

-- Flow 1:

Average throughput: 863.58 Mbit/s

95th percentile per-packet one-way delay: 284.254 ms

Loss rate: 4.79%

-- Flow 2:

Average throughput: 788.37 Mbit/s

95th percentile per-packet one-way delay: 223.202 ms

Loss rate: 7.70%

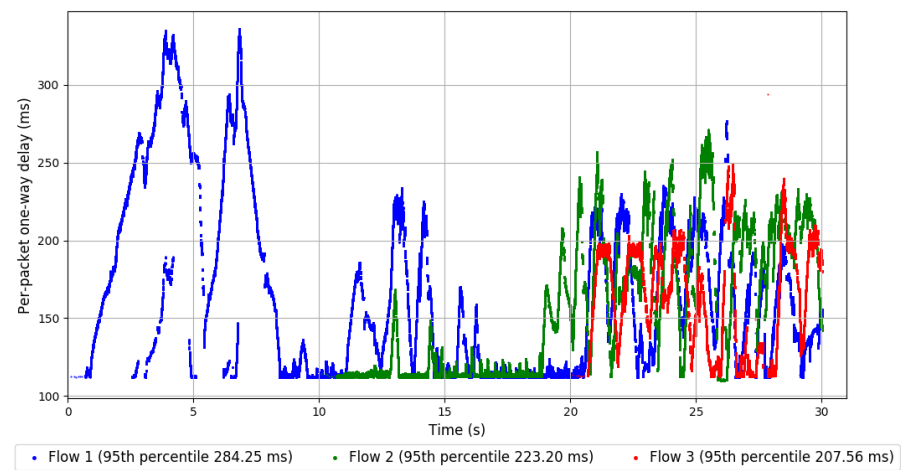
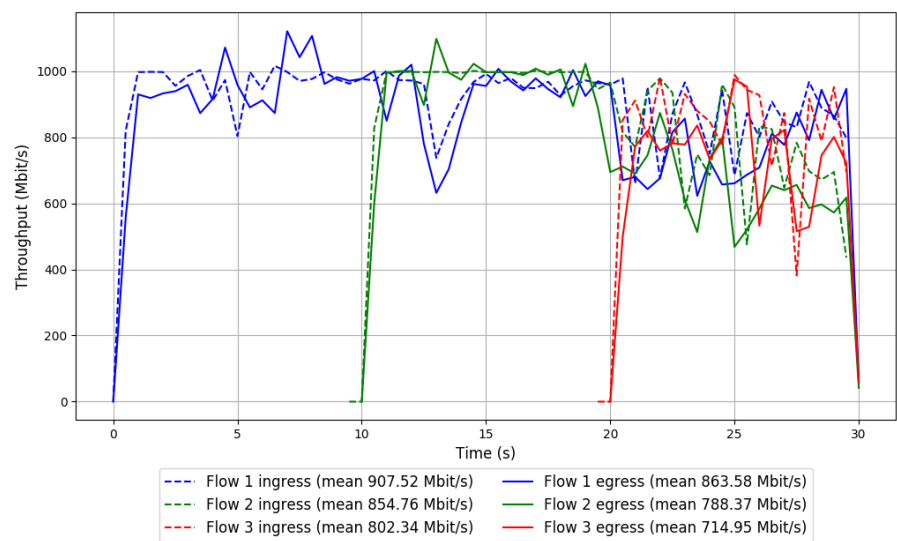
-- Flow 3:

Average throughput: 714.95 Mbit/s

95th percentile per-packet one-way delay: 207.559 ms

Loss rate: 10.77%

Run 6: Report of FillP — Data Link

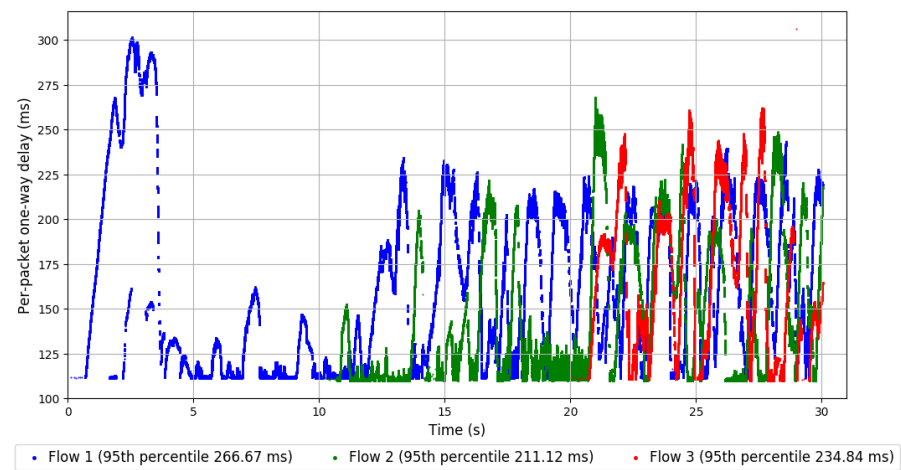
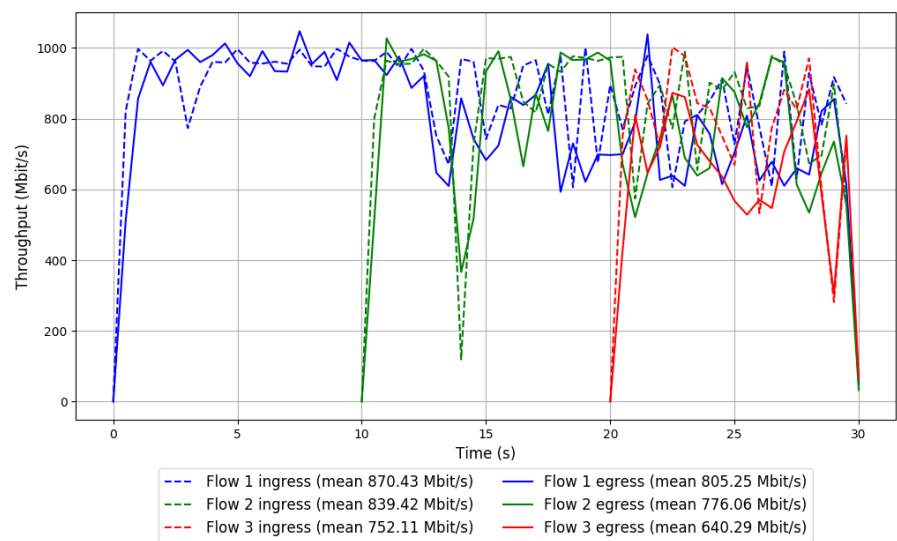


```
Run 7: Statistics of FillP

Start at: 2018-01-02 19:28:31
End at: 2018-01-02 19:29:01

# Below is generated by plot.py at 2018-01-02 22:44:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1533.76 Mbit/s
95th percentile per-packet one-way delay: 237.686 ms
Loss rate: 8.60%
-- Flow 1:
Average throughput: 805.25 Mbit/s
95th percentile per-packet one-way delay: 266.672 ms
Loss rate: 7.49%
-- Flow 2:
Average throughput: 776.06 Mbit/s
95th percentile per-packet one-way delay: 211.116 ms
Loss rate: 7.55%
-- Flow 3:
Average throughput: 640.29 Mbit/s
95th percentile per-packet one-way delay: 234.839 ms
Loss rate: 14.86%
```

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-01-02 19:43:44

End at: 2018-01-02 19:44:14

Below is generated by plot.py at 2018-01-02 22:44:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 1550.46 Mbit/s

95th percentile per-packet one-way delay: 325.215 ms

Loss rate: 9.05%

-- Flow 1:

Average throughput: 790.33 Mbit/s

95th percentile per-packet one-way delay: 331.924 ms

Loss rate: 9.14%

-- Flow 2:

Average throughput: 830.07 Mbit/s

95th percentile per-packet one-way delay: 203.794 ms

Loss rate: 6.35%

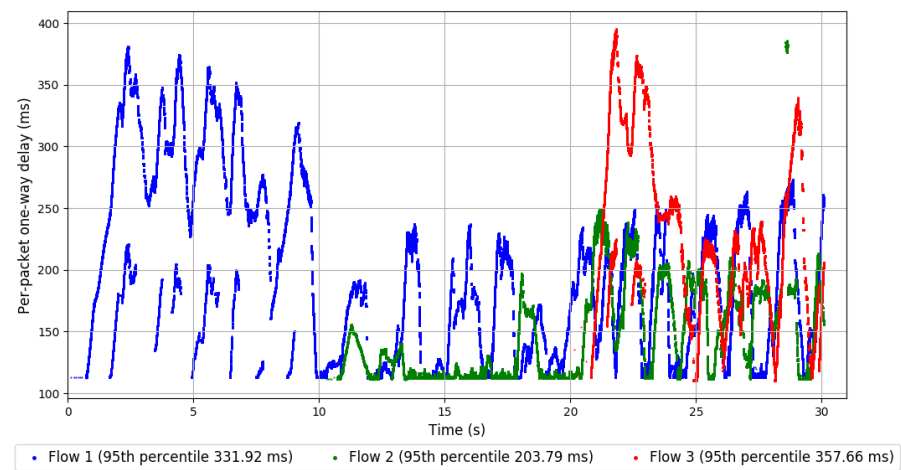
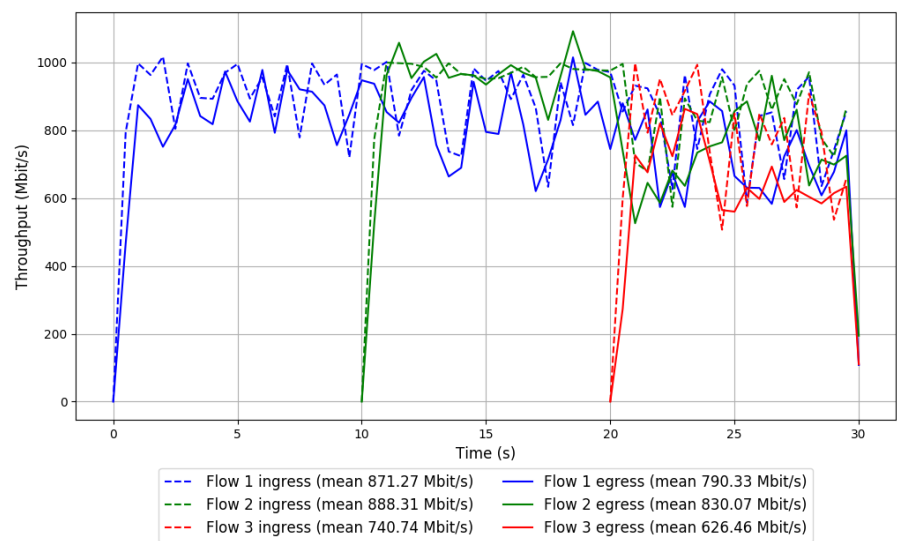
-- Flow 3:

Average throughput: 626.46 Mbit/s

95th percentile per-packet one-way delay: 357.659 ms

Loss rate: 15.22%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-01-02 19:59:03

End at: 2018-01-02 19:59:33

Below is generated by plot.py at 2018-01-02 22:53:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 1627.94 Mbit/s

95th percentile per-packet one-way delay: 223.499 ms

Loss rate: 5.93%

-- Flow 1:

Average throughput: 893.58 Mbit/s

95th percentile per-packet one-way delay: 211.150 ms

Loss rate: 2.66%

-- Flow 2:

Average throughput: 801.03 Mbit/s

95th percentile per-packet one-way delay: 217.902 ms

Loss rate: 7.16%

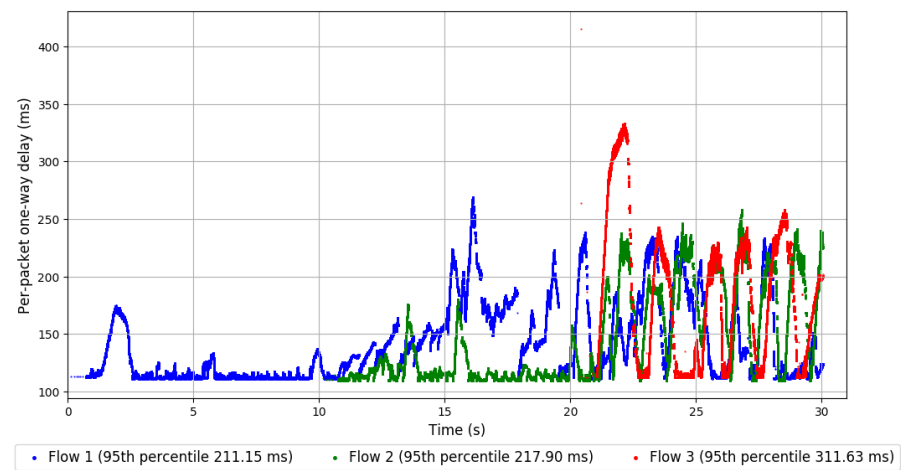
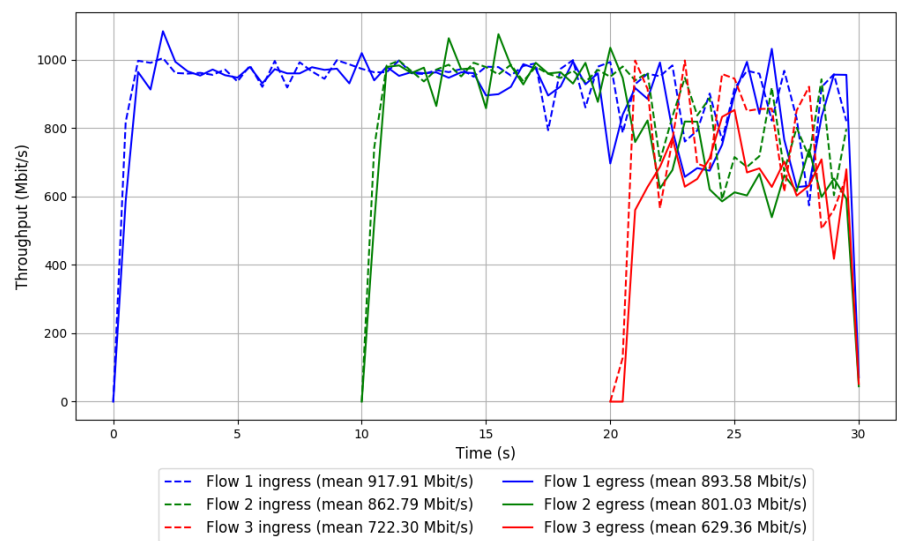
-- Flow 3:

Average throughput: 629.36 Mbit/s

95th percentile per-packet one-way delay: 311.635 ms

Loss rate: 15.54%

Run 9: Report of FillP — Data Link

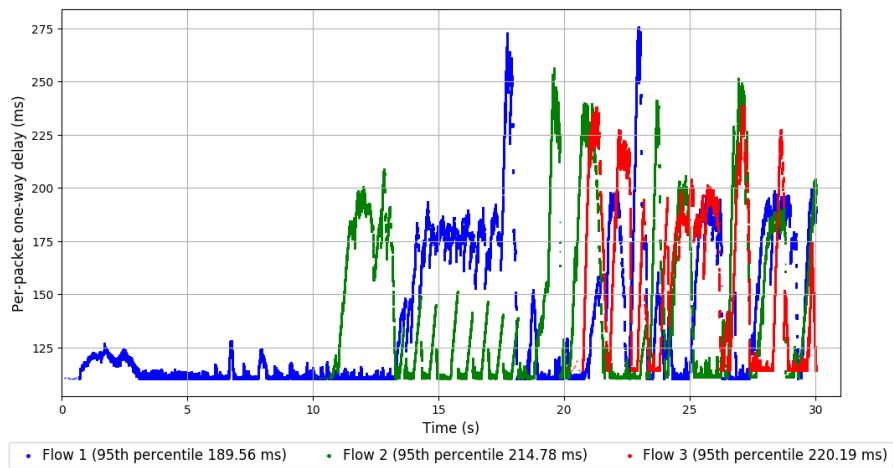
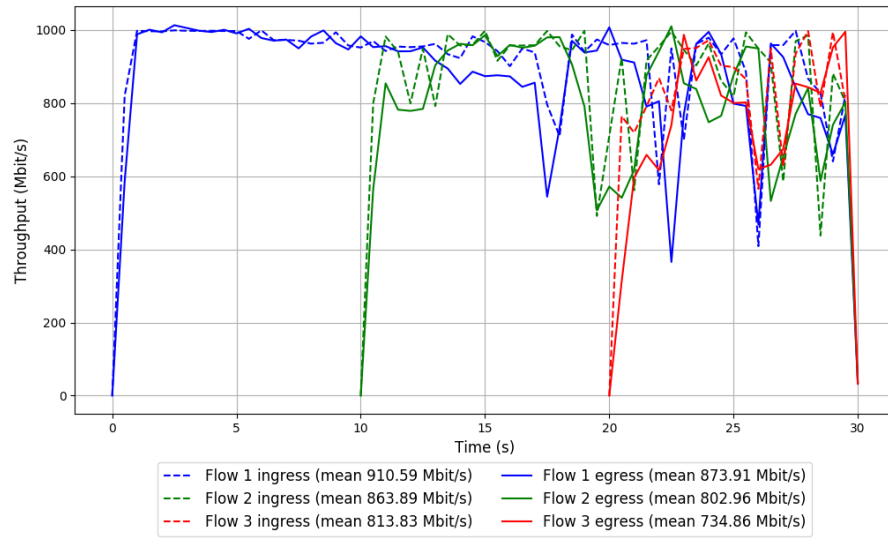


```
Run 10: Statistics of FillP

Start at: 2018-01-02 20:14:21
End at: 2018-01-02 20:14:51

# Below is generated by plot.py at 2018-01-02 22:53:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1651.44 Mbit/s
95th percentile per-packet one-way delay: 201.726 ms
Loss rate: 5.90%
-- Flow 1:
Average throughput: 873.91 Mbit/s
95th percentile per-packet one-way delay: 189.559 ms
Loss rate: 4.03%
-- Flow 2:
Average throughput: 802.96 Mbit/s
95th percentile per-packet one-way delay: 214.782 ms
Loss rate: 7.05%
-- Flow 3:
Average throughput: 734.86 Mbit/s
95th percentile per-packet one-way delay: 220.187 ms
Loss rate: 9.74%
```

Run 10: Report of FillP — Data Link

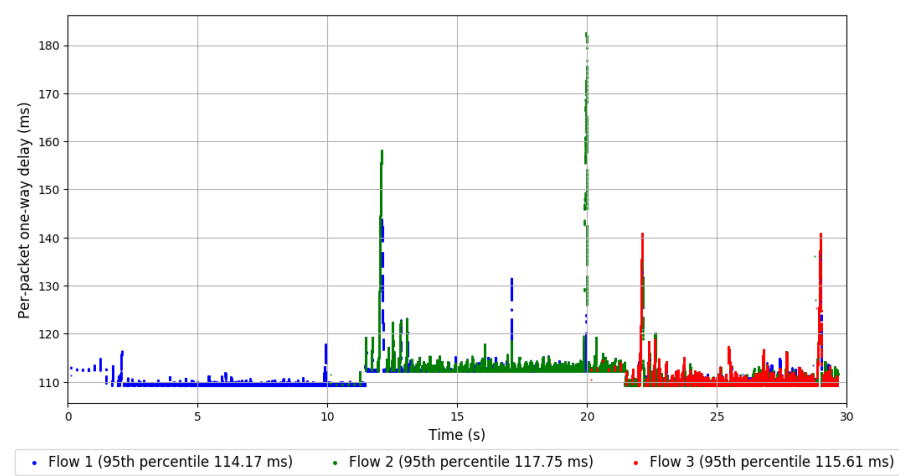
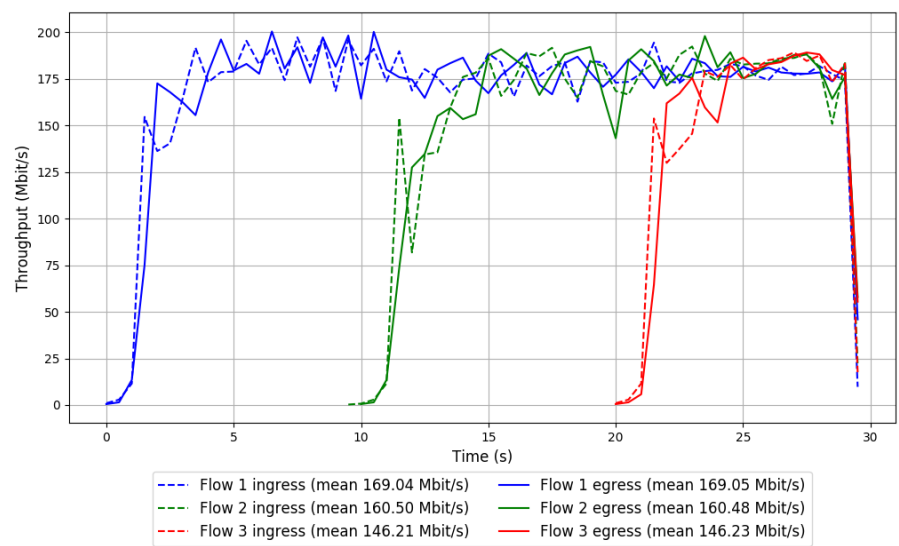


```
Run 1: Statistics of Indigo

Start at: 2018-01-02 17:59:03
End at: 2018-01-02 17:59:33

# Below is generated by plot.py at 2018-01-02 22:53:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 322.29 Mbit/s
95th percentile per-packet one-way delay: 115.337 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 169.05 Mbit/s
95th percentile per-packet one-way delay: 114.174 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 160.48 Mbit/s
95th percentile per-packet one-way delay: 117.749 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 146.23 Mbit/s
95th percentile per-packet one-way delay: 115.610 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo — Data Link

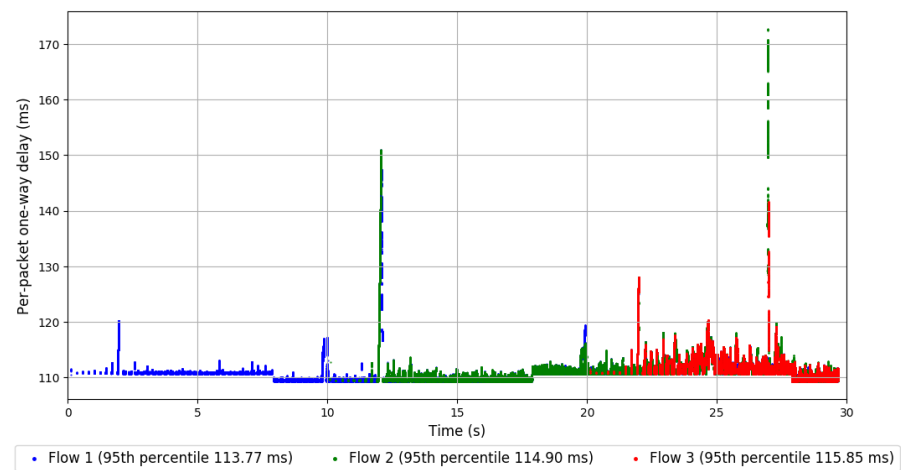
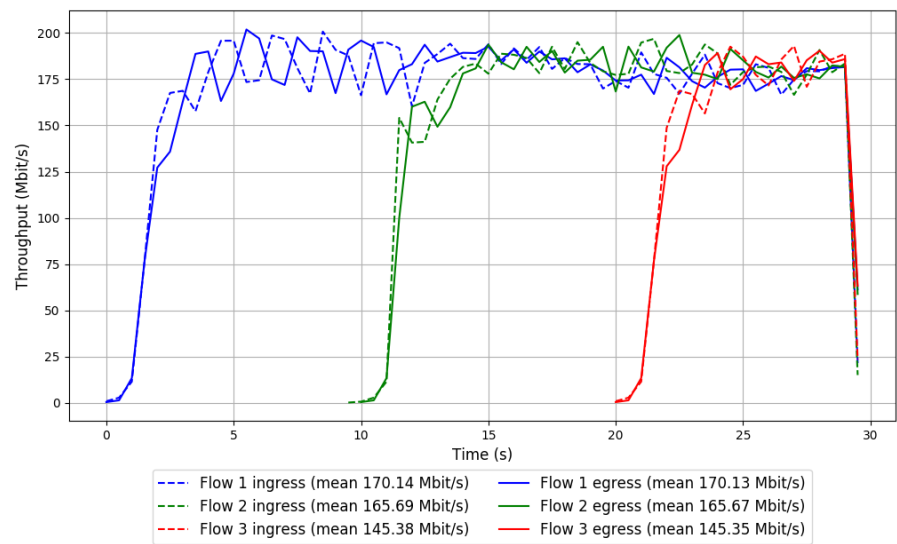


```
Run 2: Statistics of Indigo

Start at: 2018-01-02 18:14:27
End at: 2018-01-02 18:14:57

# Below is generated by plot.py at 2018-01-02 22:53:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 326.66 Mbit/s
95th percentile per-packet one-way delay: 114.578 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 170.13 Mbit/s
95th percentile per-packet one-way delay: 113.765 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 165.67 Mbit/s
95th percentile per-packet one-way delay: 114.900 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 145.35 Mbit/s
95th percentile per-packet one-way delay: 115.849 ms
Loss rate: 0.02%
```

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2018-01-02 18:30:06

End at: 2018-01-02 18:30:36

Below is generated by plot.py at 2018-01-02 22:53:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 326.91 Mbit/s

95th percentile per-packet one-way delay: 116.014 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 169.67 Mbit/s

95th percentile per-packet one-way delay: 115.040 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 165.54 Mbit/s

95th percentile per-packet one-way delay: 116.965 ms

Loss rate: 0.00%

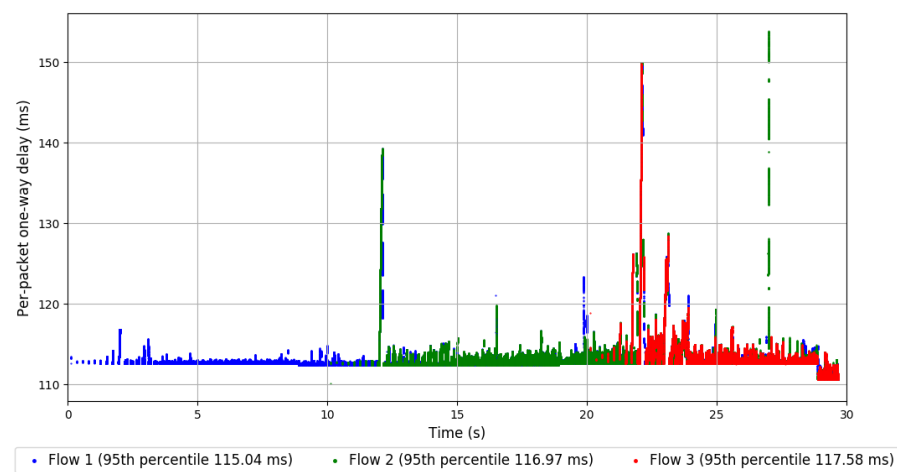
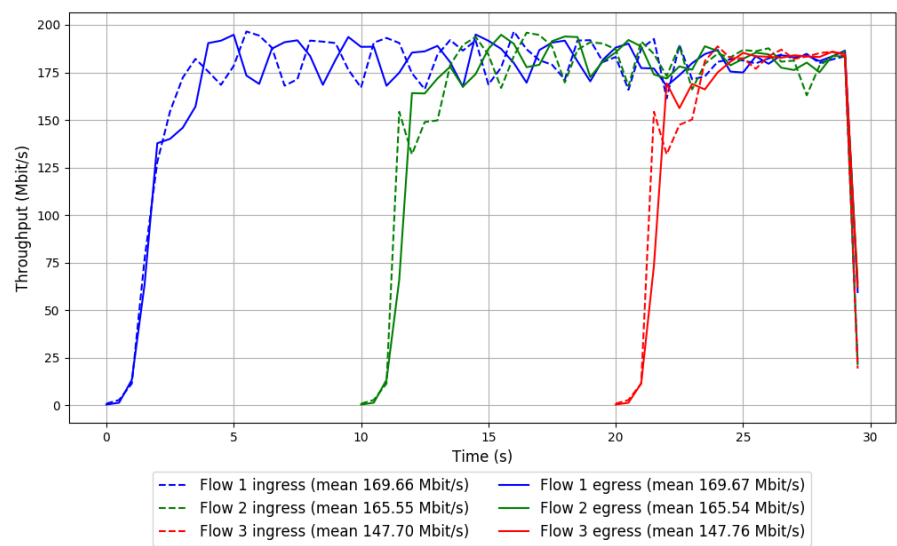
-- Flow 3:

Average throughput: 147.76 Mbit/s

95th percentile per-packet one-way delay: 117.578 ms

Loss rate: 0.00%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2018-01-02 18:45:32

End at: 2018-01-02 18:46:02

Below is generated by plot.py at 2018-01-02 22:53:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 313.76 Mbit/s

95th percentile per-packet one-way delay: 119.188 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 163.45 Mbit/s

95th percentile per-packet one-way delay: 117.280 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 159.89 Mbit/s

95th percentile per-packet one-way delay: 119.855 ms

Loss rate: 0.00%

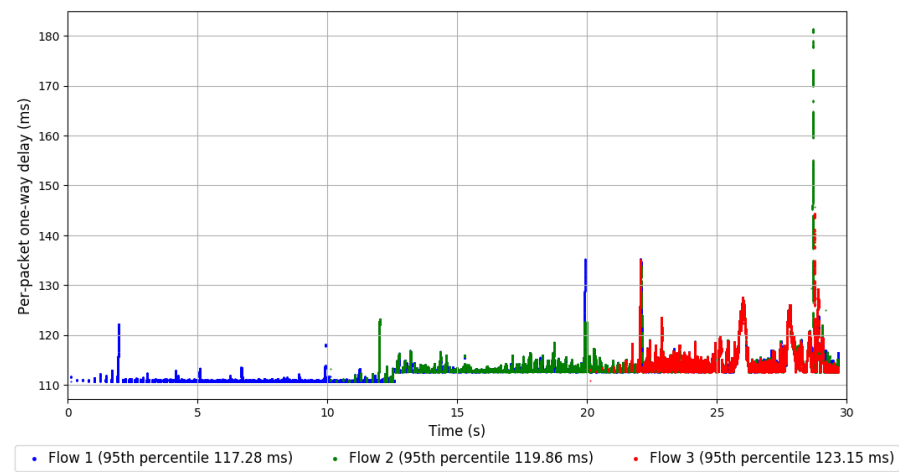
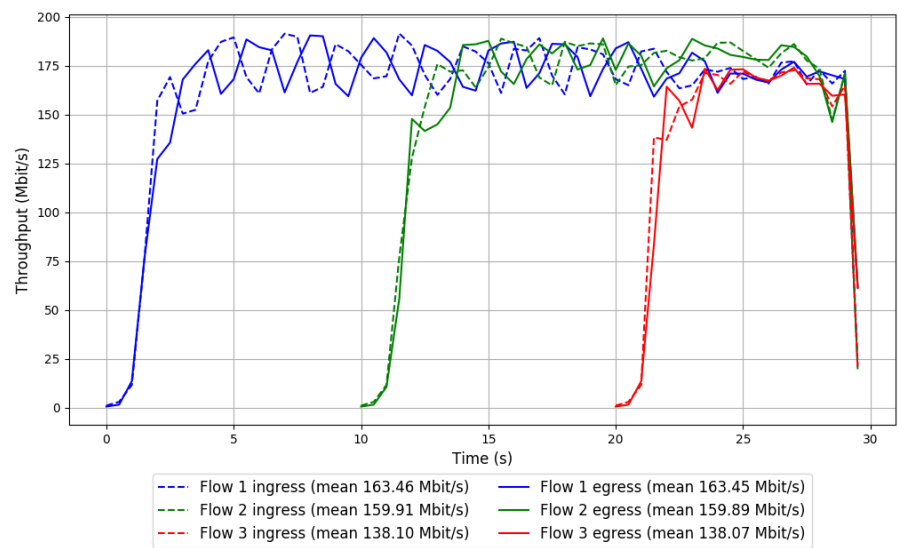
-- Flow 3:

Average throughput: 138.07 Mbit/s

95th percentile per-packet one-way delay: 123.153 ms

Loss rate: 0.00%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2018-01-02 19:01:03

End at: 2018-01-02 19:01:33

Below is generated by plot.py at 2018-01-02 22:53:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 326.61 Mbit/s

95th percentile per-packet one-way delay: 114.805 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 169.67 Mbit/s

95th percentile per-packet one-way delay: 114.148 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 165.80 Mbit/s

95th percentile per-packet one-way delay: 115.998 ms

Loss rate: 0.00%

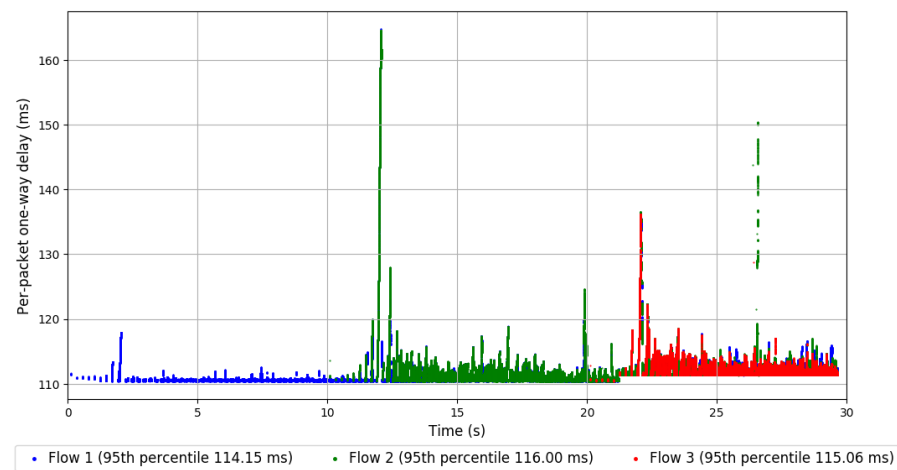
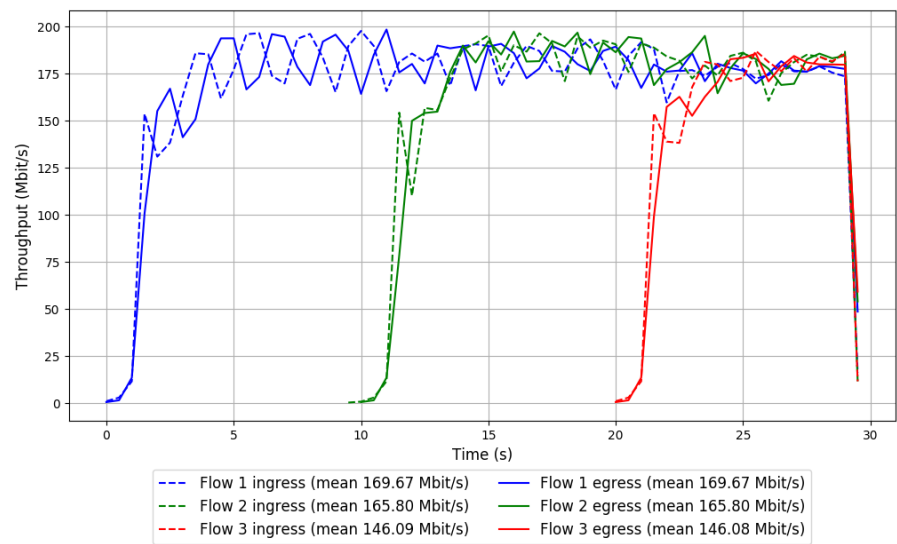
-- Flow 3:

Average throughput: 146.08 Mbit/s

95th percentile per-packet one-way delay: 115.056 ms

Loss rate: 0.00%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2018-01-02 19:16:37

End at: 2018-01-02 19:17:07

Below is generated by plot.py at 2018-01-02 22:53:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 322.44 Mbit/s

95th percentile per-packet one-way delay: 114.058 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 168.55 Mbit/s

95th percentile per-packet one-way delay: 113.186 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 161.45 Mbit/s

95th percentile per-packet one-way delay: 114.462 ms

Loss rate: 0.01%

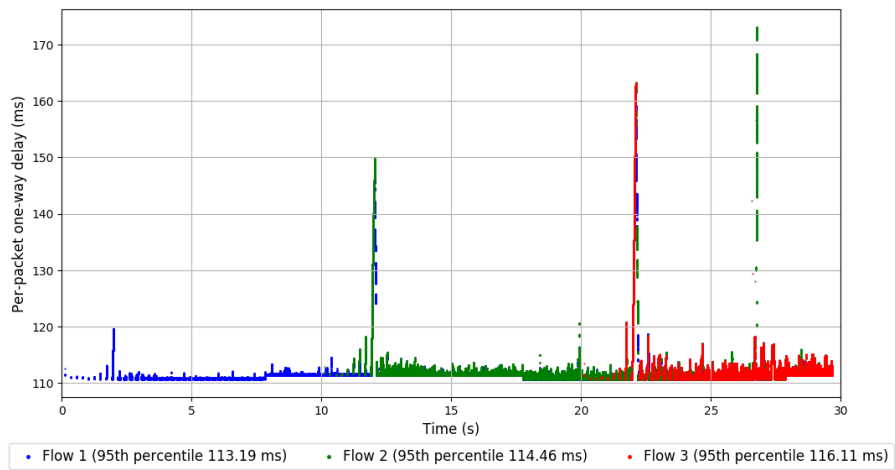
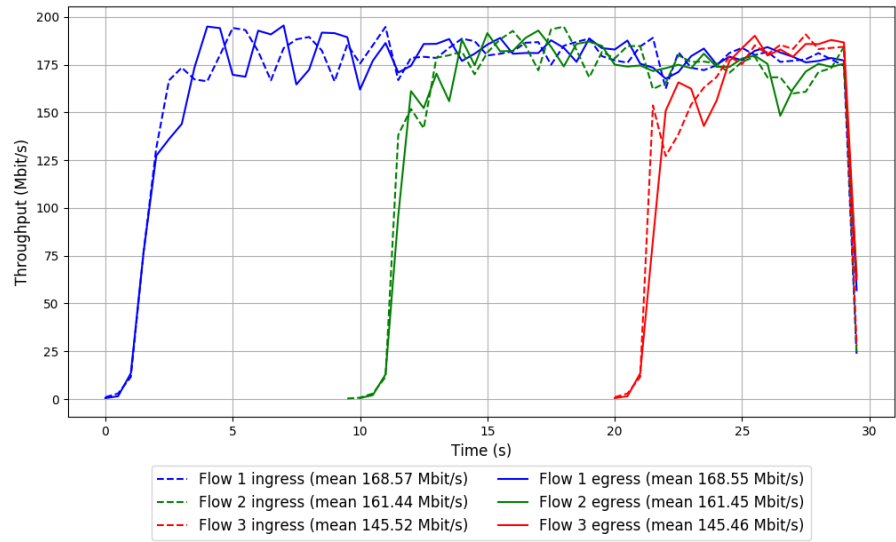
-- Flow 3:

Average throughput: 145.46 Mbit/s

95th percentile per-packet one-way delay: 116.107 ms

Loss rate: 0.04%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2018-01-02 19:32:10

End at: 2018-01-02 19:32:40

Below is generated by plot.py at 2018-01-02 22:53:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 321.92 Mbit/s

95th percentile per-packet one-way delay: 118.078 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 166.00 Mbit/s

95th percentile per-packet one-way delay: 116.665 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 166.29 Mbit/s

95th percentile per-packet one-way delay: 118.575 ms

Loss rate: 0.00%

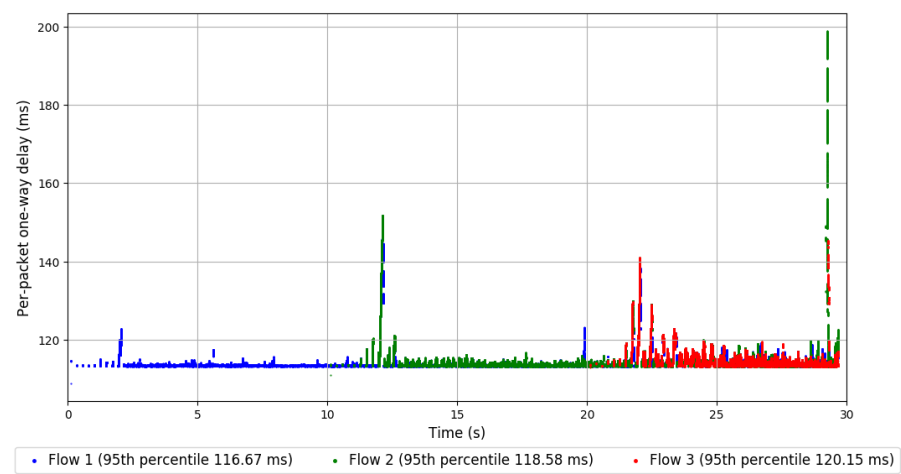
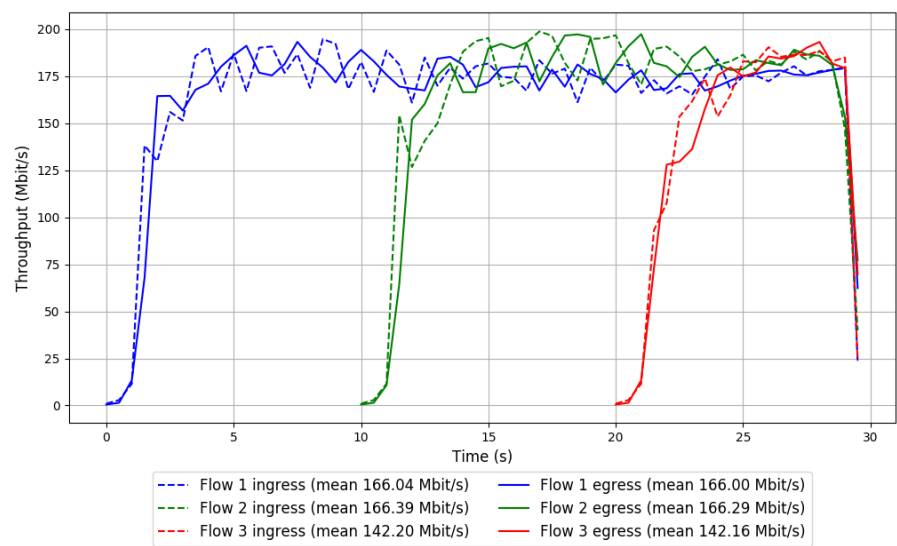
-- Flow 3:

Average throughput: 142.16 Mbit/s

95th percentile per-packet one-way delay: 120.152 ms

Loss rate: 0.04%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2018-01-02 19:47:24

End at: 2018-01-02 19:47:54

Below is generated by plot.py at 2018-01-02 22:53:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 324.13 Mbit/s

95th percentile per-packet one-way delay: 118.337 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 169.87 Mbit/s

95th percentile per-packet one-way delay: 116.765 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 163.50 Mbit/s

95th percentile per-packet one-way delay: 120.717 ms

Loss rate: 0.01%

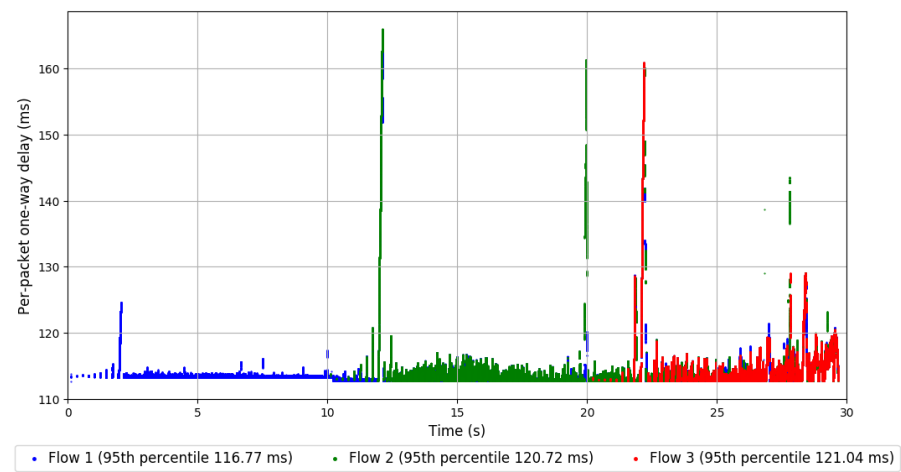
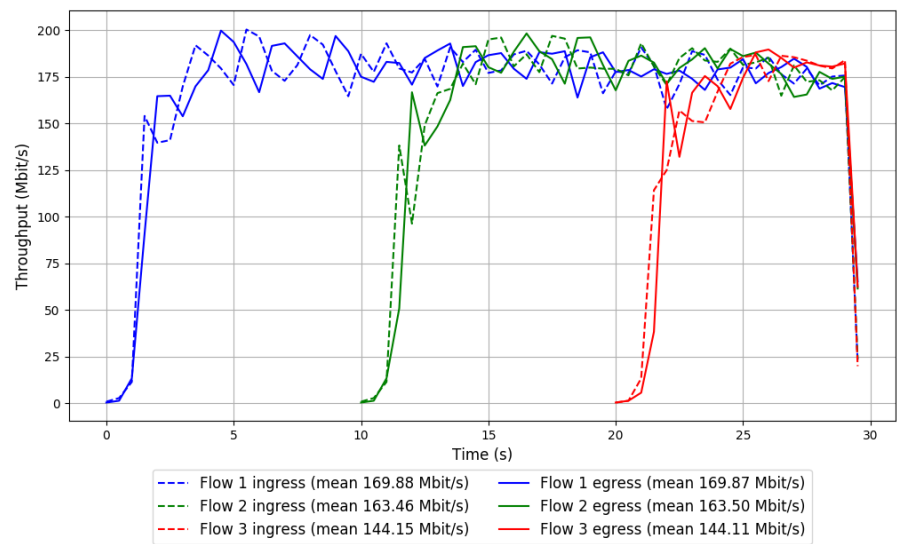
-- Flow 3:

Average throughput: 144.11 Mbit/s

95th percentile per-packet one-way delay: 121.039 ms

Loss rate: 0.03%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2018-01-02 20:02:48

End at: 2018-01-02 20:03:18

Below is generated by plot.py at 2018-01-02 22:53:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 313.97 Mbit/s

95th percentile per-packet one-way delay: 121.967 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 161.94 Mbit/s

95th percentile per-packet one-way delay: 121.497 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 162.59 Mbit/s

95th percentile per-packet one-way delay: 121.614 ms

Loss rate: 0.02%

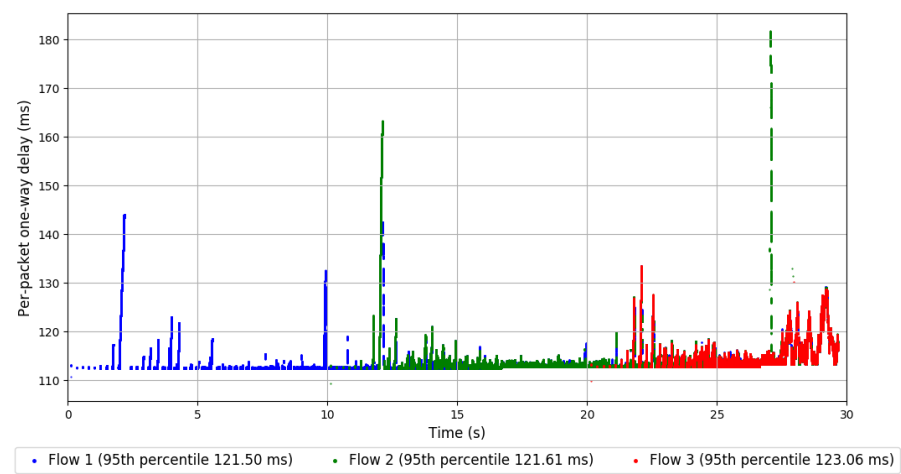
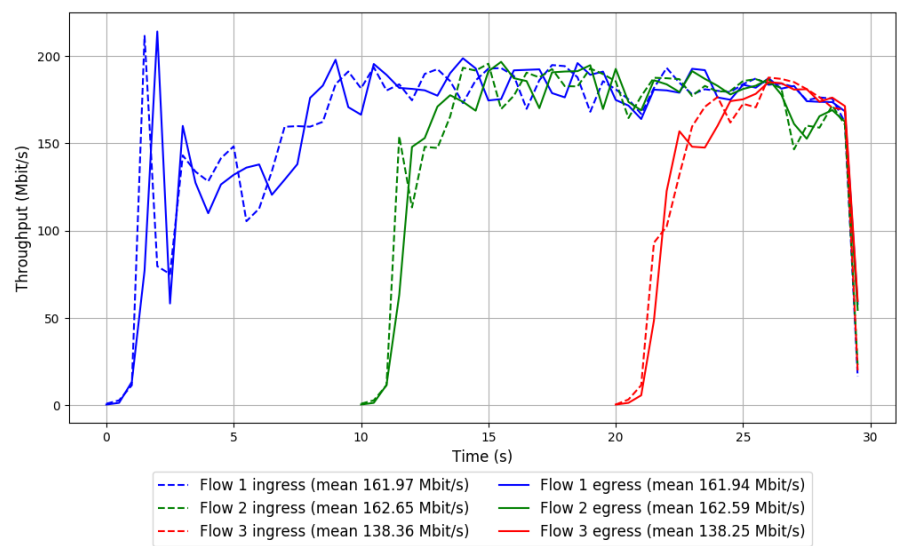
-- Flow 3:

Average throughput: 138.25 Mbit/s

95th percentile per-packet one-way delay: 123.058 ms

Loss rate: 0.00%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2018-01-02 20:18:06

End at: 2018-01-02 20:18:36

Below is generated by plot.py at 2018-01-02 22:53:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 326.57 Mbit/s

95th percentile per-packet one-way delay: 116.602 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 170.89 Mbit/s

95th percentile per-packet one-way delay: 115.675 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 164.41 Mbit/s

95th percentile per-packet one-way delay: 117.388 ms

Loss rate: 0.01%

-- Flow 3:

Average throughput: 145.31 Mbit/s

95th percentile per-packet one-way delay: 117.805 ms

Loss rate: 0.01%

Run 10: Report of Indigo — Data Link

