

Pantheon Report

Generated at 2017-12-01 02:10:31 (UTC).

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

Repeated the test of 14 congestion control schemes 10 times.

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

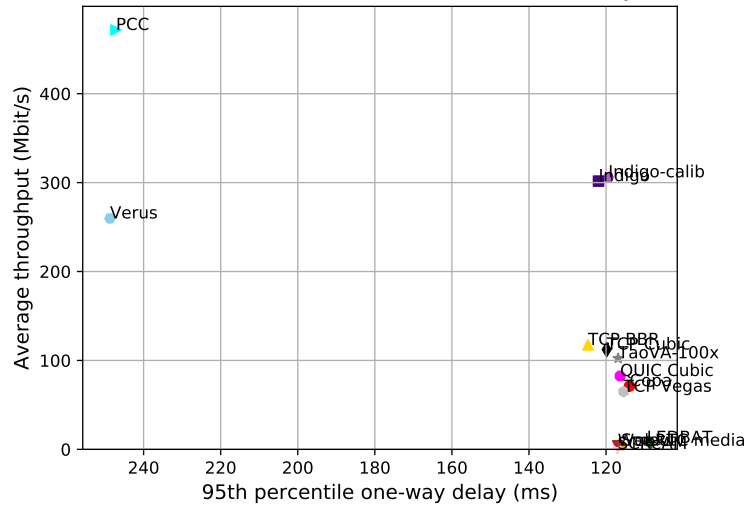
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

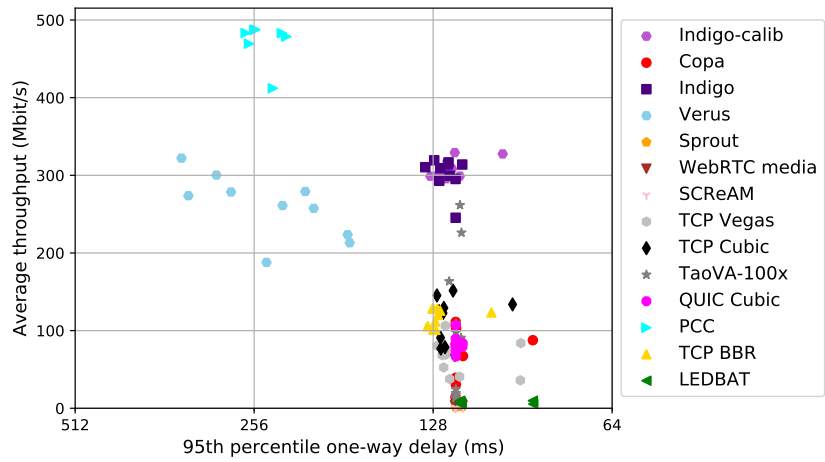
Git summary:

```
branch: indigos @ e3a57ad5ac5cfcaca0e3f983c8dd4cc3509e0262
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
M datagrump/sender.cc
third_party/genericCC @ b5b7c38e8391001927dc41c6cfa2627d03dde737
third_party/indigo @ b19f3730105f9aa95452552af924e3719b03cc55
third_party/indigo-cellular @ aee99e8eb842cb053f8c9a80e28cd256a930bbc2
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/indigo-no-cwnd @ 3e58442c04028a11d7b02456e137604633ba2d6c
third_party/indigo-no-delivery-rate @ 57caa40858b964906edff4876d5a7e5bfff666c5
third_party/indigo-no-queuing-delay @ 03455460fd1a8ffbdad86fabb936fdca204b80db
third_party/indigo-no-send-rate @ b39dfa6b2c5f19cb7cd89626cb4f5bb81f9fecda
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ baf443516dea3eeddeccaf9b916cc313273ca4f4
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/proto-quick @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eaeab30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/webRTC @ a488197ddd041ace68a42849b2540ad834825f42
```

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



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



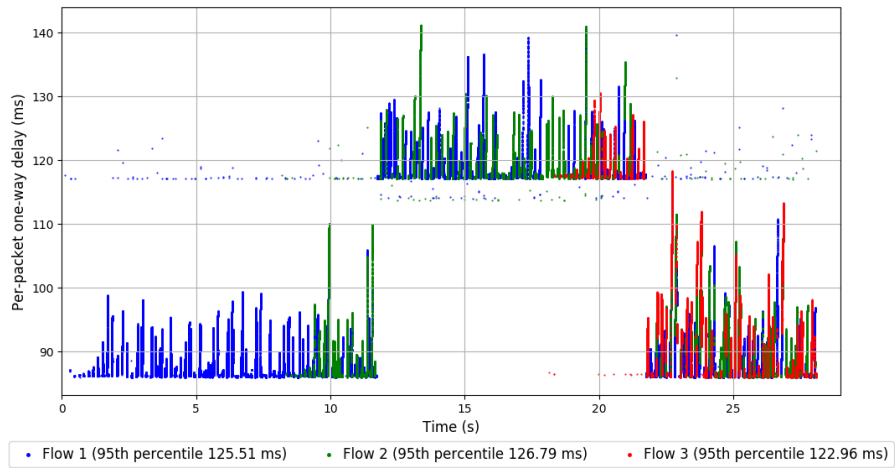
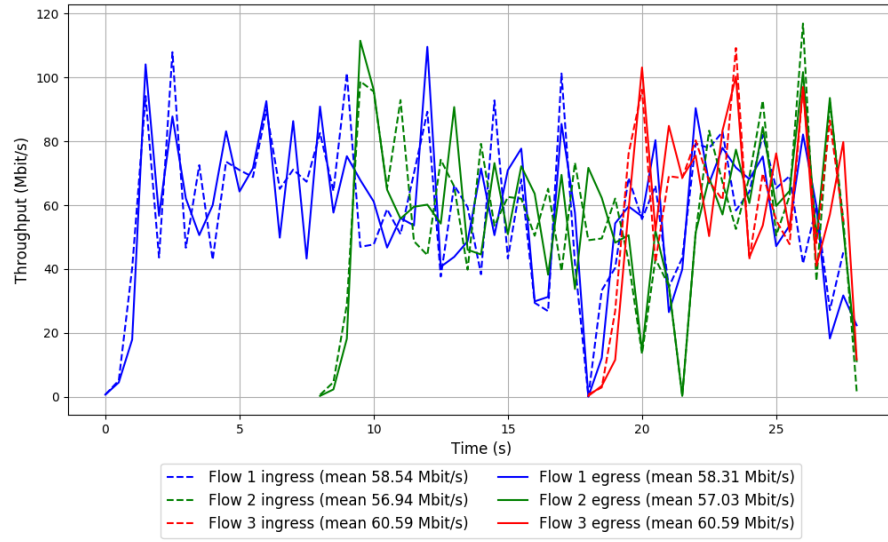
scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	10	57.96	57.60	63.35	123.99	124.58	126.55	0.40	0.25	0.56
TCP Cubic	10	62.75	47.93	53.44	119.84	114.34	116.77	0.10	0.09	0.00
LEDBAT	10	4.07	3.73	2.12	109.48	109.37	109.21	0.70	1.16	0.60
PCC	7	445.52	31.54	15.55	247.29	245.18	221.23	2.59	1.93	1.71
QUIC Cubic	10	52.47	35.64	19.75	113.30	103.86	104.51	0.02	0.09	0.10
SCReAM	10	0.21	0.22	0.22	110.60	113.34	110.65	0.01	0.01	0.00
WebRTC media	8	2.12	1.40	0.51	112.79	116.21	116.16	0.06	0.09	0.34
Sprout	10	2.58	1.74	1.30	115.77	115.82	115.96	0.45	0.61	1.62
TaoVA-100x	10	60.01	30.13	85.92	115.52	117.42	116.65	0.91	0.06	0.43
TCP Vegas	10	18.96	48.77	40.38	112.75	113.90	114.07	0.69	0.36	0.35
Verus	10	171.15	111.50	55.85	237.68	235.25	214.42	2.39	2.15	1.95
Copa	10	36.98	39.08	32.09	112.71	113.42	113.19	0.10	0.06	0.08
Indigo	10	159.53	157.06	118.78	120.03	123.40	122.86	0.08	0.08	0.15
Indigo-calib	10	163.84	154.44	124.40	117.05	119.88	123.52	0.03	0.01	0.01

```
Run 1: Statistics of TCP BBR

Start at: 2017-11-30 22:26:57
End at: 2017-11-30 22:27:27

# Below is generated by plot.py at 2017-12-01 01:31:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 120.31 Mbit/s
95th percentile per-packet one-way delay: 125.616 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 58.31 Mbit/s
95th percentile per-packet one-way delay: 125.507 ms
Loss rate: 0.47%
-- Flow 2:
Average throughput: 57.03 Mbit/s
95th percentile per-packet one-way delay: 126.793 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 60.59 Mbit/s
95th percentile per-packet one-way delay: 122.956 ms
Loss rate: 0.00%
```


Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2017-11-30 22:39:35

End at: 2017-11-30 22:40:05

Below is generated by plot.py at 2017-12-01 01:31:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 123.42 Mbit/s

95th percentile per-packet one-way delay: 102.138 ms

Loss rate: 0.20%

-- Flow 1:

Average throughput: 60.07 Mbit/s

95th percentile per-packet one-way delay: 100.576 ms

Loss rate: 0.42%

-- Flow 2:

Average throughput: 64.31 Mbit/s

95th percentile per-packet one-way delay: 101.310 ms

Loss rate: 0.00%

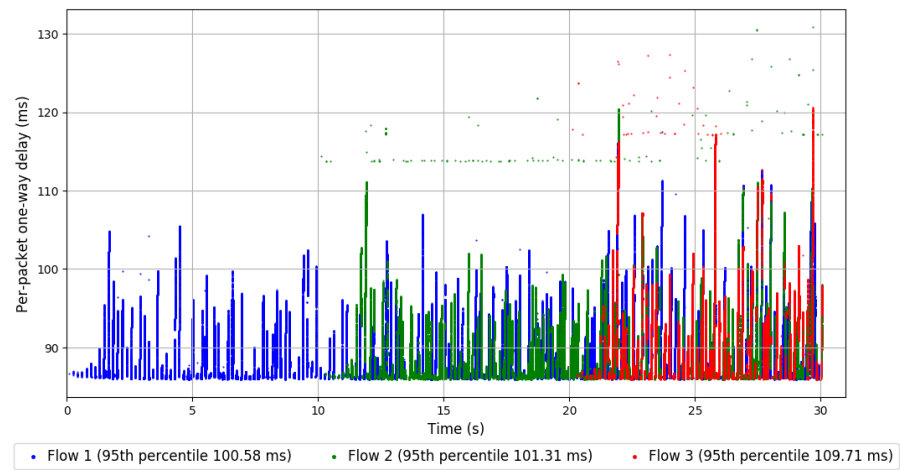
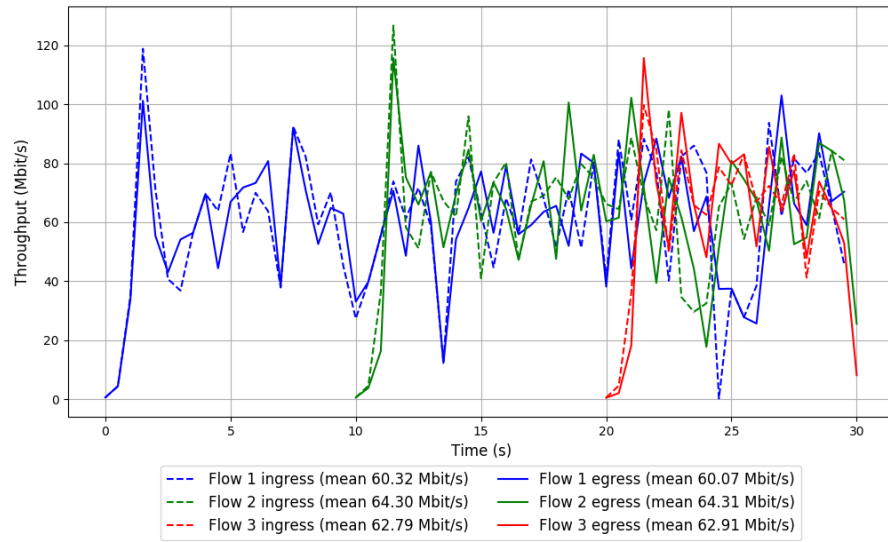
-- Flow 3:

Average throughput: 62.91 Mbit/s

95th percentile per-packet one-way delay: 109.706 ms

Loss rate: 0.00%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2017-11-30 22:52:41

End at: 2017-11-30 22:53:11

Below is generated by plot.py at 2017-12-01 01:31:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 105.80 Mbit/s

95th percentile per-packet one-way delay: 130.738 ms

Loss rate: 0.34%

-- Flow 1:

Average throughput: 50.82 Mbit/s

95th percentile per-packet one-way delay: 129.746 ms

Loss rate: 0.67%

-- Flow 2:

Average throughput: 50.34 Mbit/s

95th percentile per-packet one-way delay: 130.624 ms

Loss rate: 0.02%

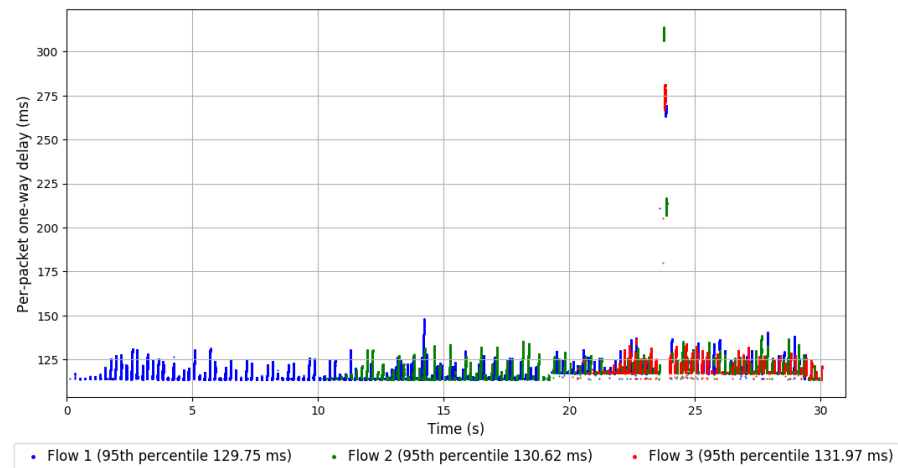
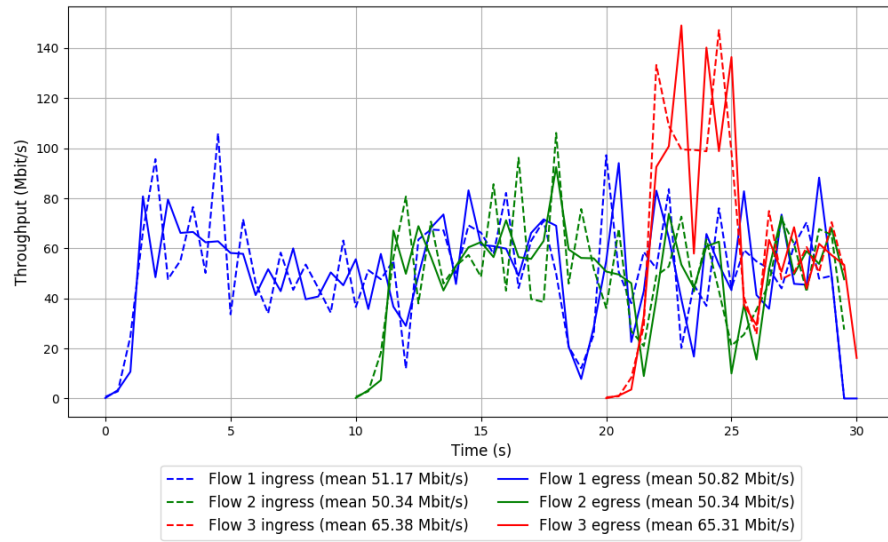
-- Flow 3:

Average throughput: 65.31 Mbit/s

95th percentile per-packet one-way delay: 131.972 ms

Loss rate: 0.03%

Run 3: Report of TCP BBR — Data Link

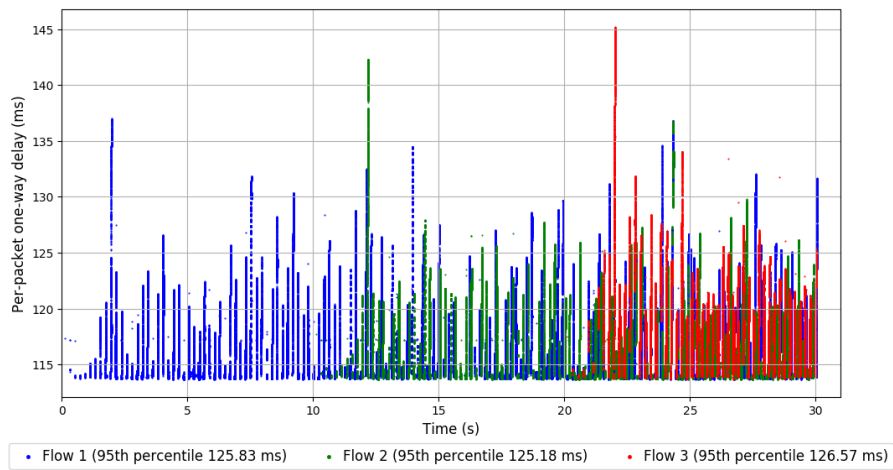
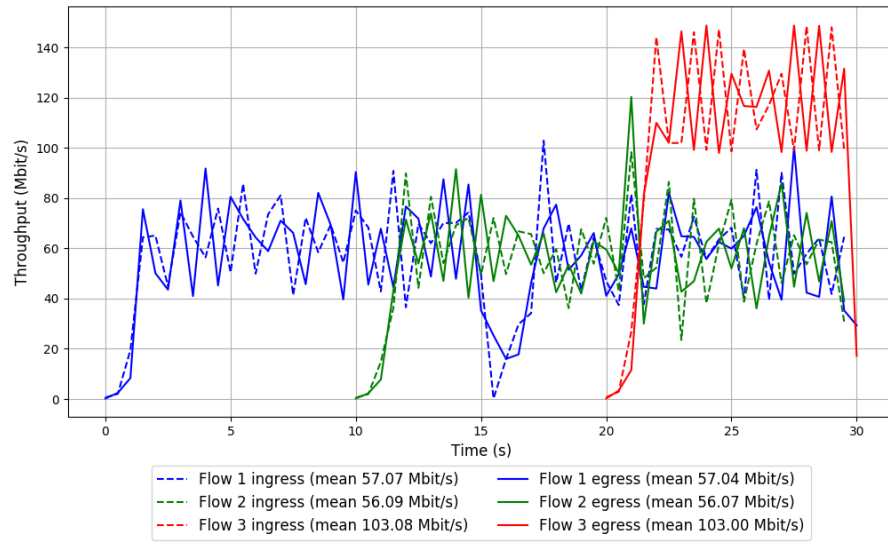


```
Run 4: Statistics of TCP BBR

Start at: 2017-11-30 23:05:38
End at: 2017-11-30 23:06:08

# Below is generated by plot.py at 2017-12-01 01:31:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 128.10 Mbit/s
95th percentile per-packet one-way delay: 125.866 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 57.04 Mbit/s
95th percentile per-packet one-way delay: 125.830 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 56.07 Mbit/s
95th percentile per-packet one-way delay: 125.177 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 103.00 Mbit/s
95th percentile per-packet one-way delay: 126.568 ms
Loss rate: 0.00%
```

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2017-11-30 23:18:24

End at: 2017-11-30 23:18:54

Below is generated by plot.py at 2017-12-01 01:31:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 125.70 Mbit/s

95th percentile per-packet one-way delay: 124.537 ms

Loss rate: 0.43%

-- Flow 1:

Average throughput: 46.87 Mbit/s

95th percentile per-packet one-way delay: 124.117 ms

Loss rate: 1.14%

-- Flow 2:

Average throughput: 88.15 Mbit/s

95th percentile per-packet one-way delay: 124.994 ms

Loss rate: 0.00%

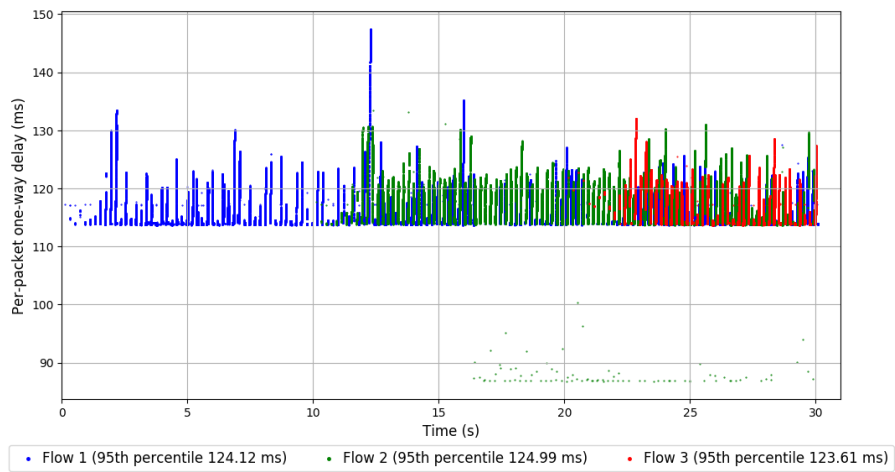
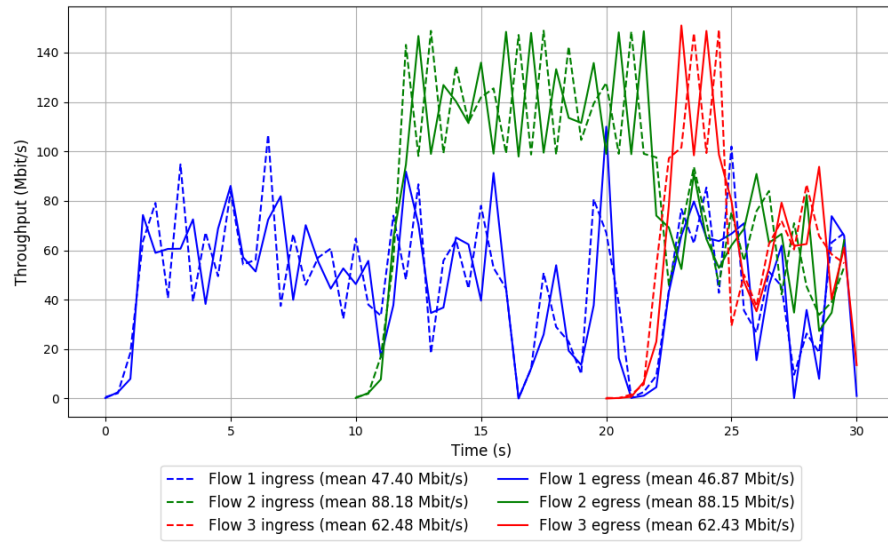
-- Flow 3:

Average throughput: 62.43 Mbit/s

95th percentile per-packet one-way delay: 123.613 ms

Loss rate: 0.02%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2017-11-30 23:30:41

End at: 2017-11-30 23:31:11

Below is generated by plot.py at 2017-12-01 01:31:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 101.13 Mbit/s

95th percentile per-packet one-way delay: 127.931 ms

Loss rate: 0.74%

-- Flow 1:

Average throughput: 53.46 Mbit/s

95th percentile per-packet one-way delay: 126.451 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 47.37 Mbit/s

95th percentile per-packet one-way delay: 130.747 ms

Loss rate: 1.43%

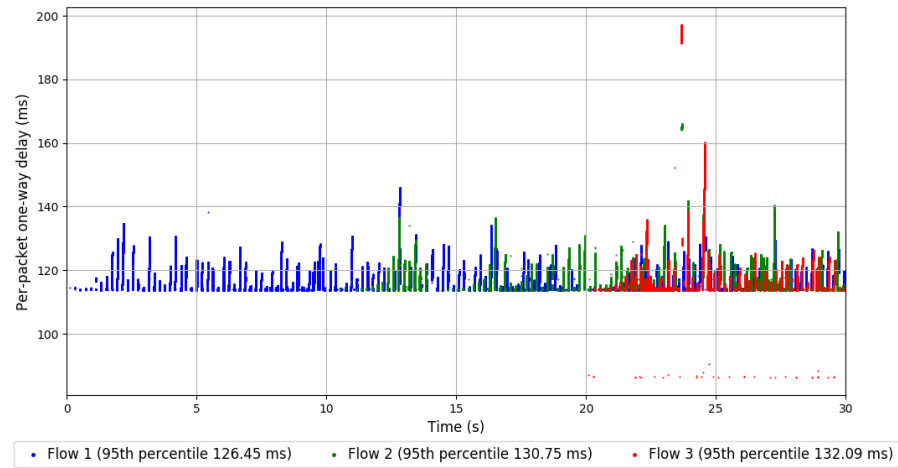
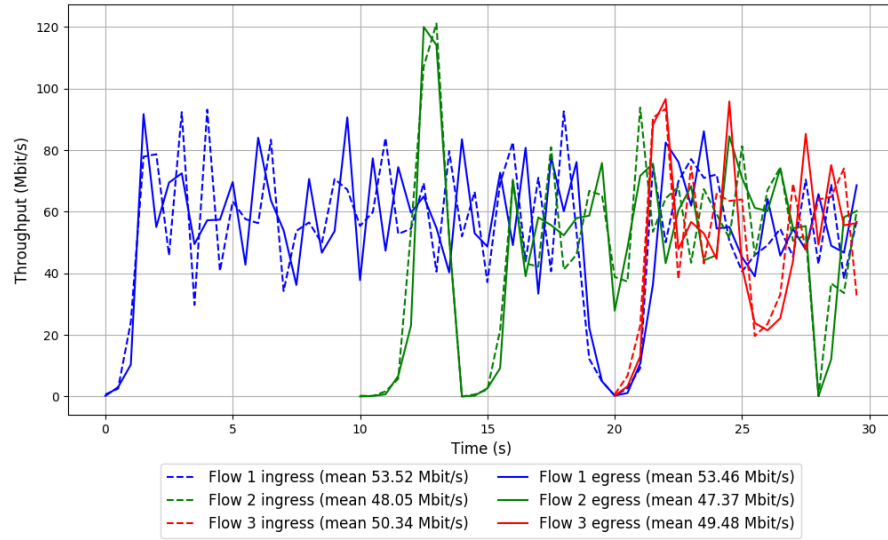
-- Flow 3:

Average throughput: 49.48 Mbit/s

95th percentile per-packet one-way delay: 132.087 ms

Loss rate: 1.44%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2017-11-30 23:43:16

End at: 2017-11-30 23:43:46

Below is generated by plot.py at 2017-12-01 01:31:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 128.91 Mbit/s

95th percentile per-packet one-way delay: 128.262 ms

Loss rate: 0.28%

-- Flow 1:

Average throughput: 77.10 Mbit/s

95th percentile per-packet one-way delay: 128.598 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 49.42 Mbit/s

95th percentile per-packet one-way delay: 126.465 ms

Loss rate: 1.08%

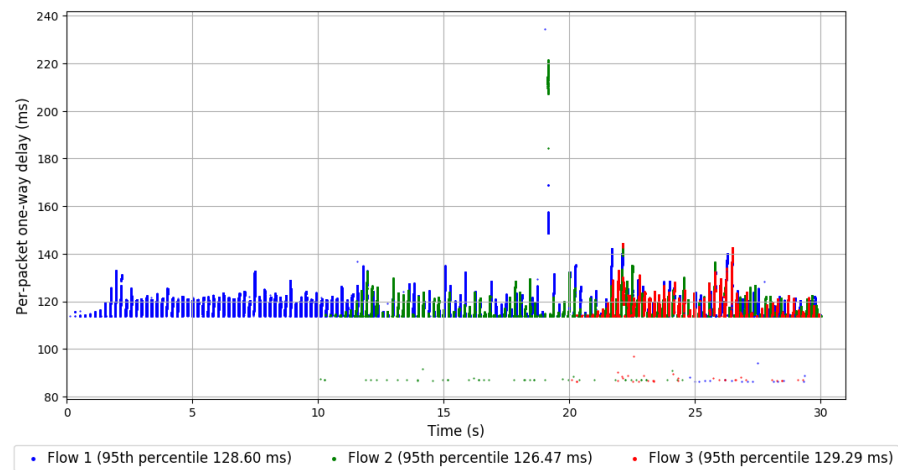
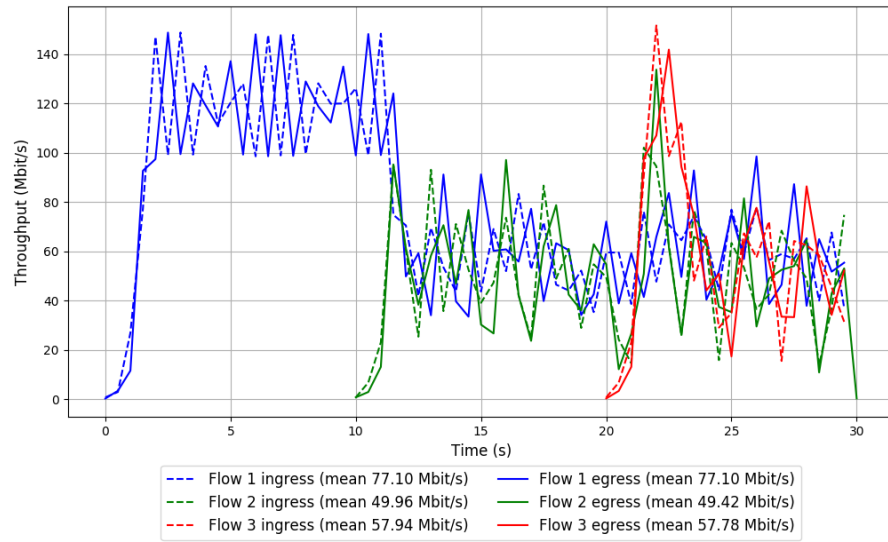
-- Flow 3:

Average throughput: 57.78 Mbit/s

95th percentile per-packet one-way delay: 129.295 ms

Loss rate: 0.00%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2017-11-30 23:55:40

End at: 2017-11-30 23:56:10

Below is generated by plot.py at 2017-12-01 01:31:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 101.06 Mbit/s

95th percentile per-packet one-way delay: 126.822 ms

Loss rate: 0.32%

-- Flow 1:

Average throughput: 52.36 Mbit/s

95th percentile per-packet one-way delay: 125.400 ms

Loss rate: 0.54%

-- Flow 2:

Average throughput: 52.32 Mbit/s

95th percentile per-packet one-way delay: 127.329 ms

Loss rate: 0.00%

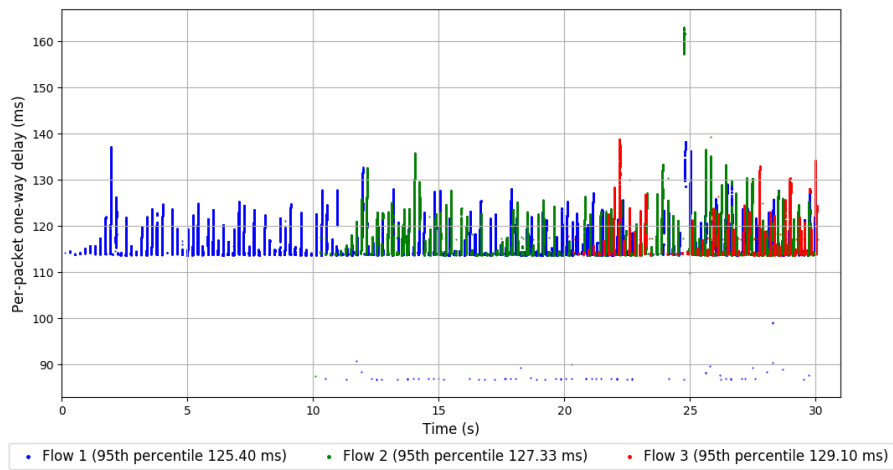
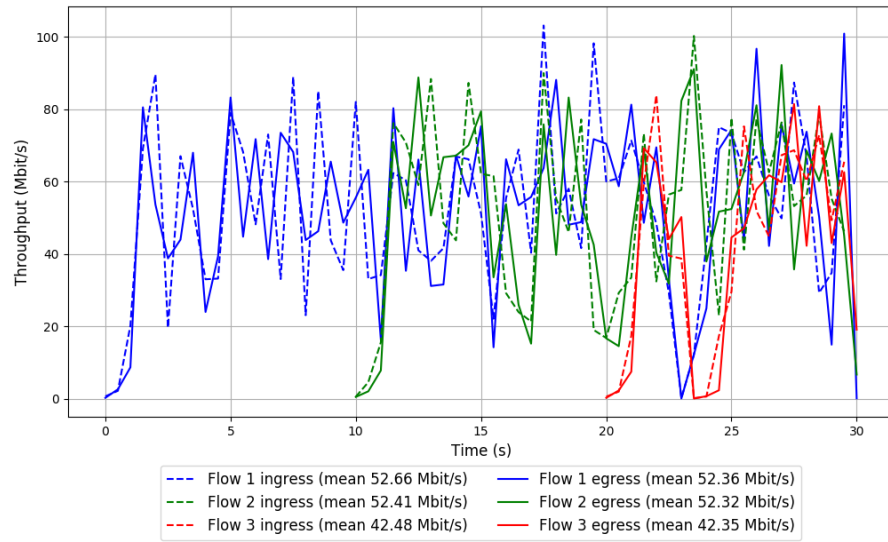
-- Flow 3:

Average throughput: 42.35 Mbit/s

95th percentile per-packet one-way delay: 129.099 ms

Loss rate: 0.29%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2017-12-01 00:08:11

End at: 2017-12-01 00:08:41

Below is generated by plot.py at 2017-12-01 01:33:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 128.19 Mbit/s

95th percentile per-packet one-way delay: 127.830 ms

Loss rate: 0.78%

-- Flow 1:

Average throughput: 71.53 Mbit/s

95th percentile per-packet one-way delay: 126.163 ms

Loss rate: 0.27%

-- Flow 2:

Average throughput: 55.12 Mbit/s

95th percentile per-packet one-way delay: 126.592 ms

Loss rate: 0.01%

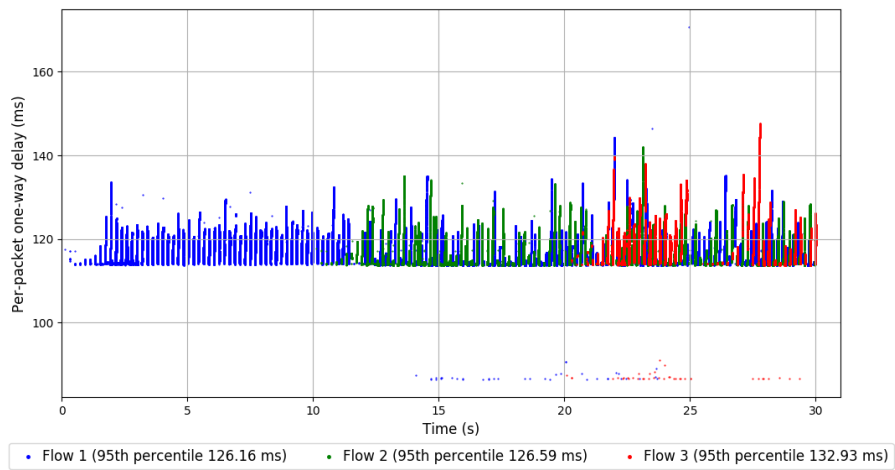
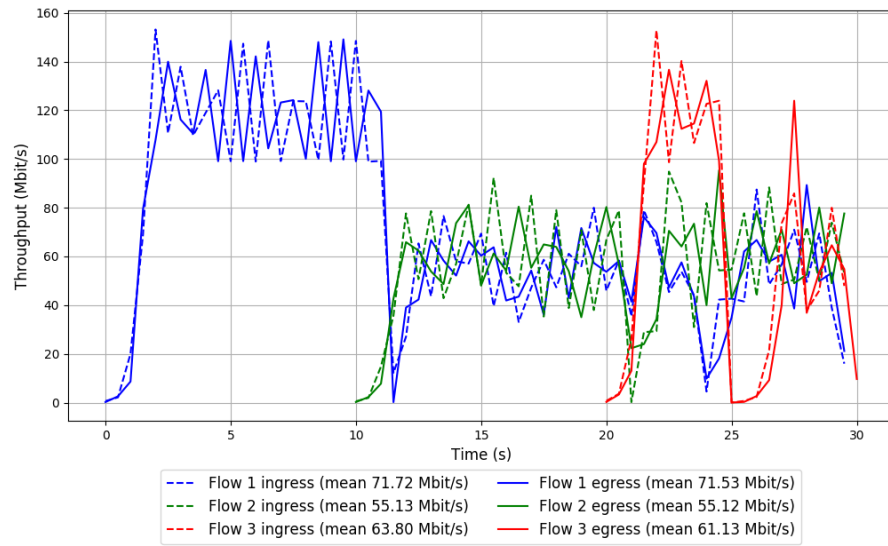
-- Flow 3:

Average throughput: 61.13 Mbit/s

95th percentile per-packet one-way delay: 132.928 ms

Loss rate: 3.84%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2017-12-01 00:20:54

End at: 2017-12-01 00:21:24

Below is generated by plot.py at 2017-12-01 01:33:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 111.71 Mbit/s

95th percentile per-packet one-way delay: 126.894 ms

Loss rate: 0.18%

-- Flow 1:

Average throughput: 52.04 Mbit/s

95th percentile per-packet one-way delay: 127.559 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 55.92 Mbit/s

95th percentile per-packet one-way delay: 125.748 ms

Loss rate: 0.01%

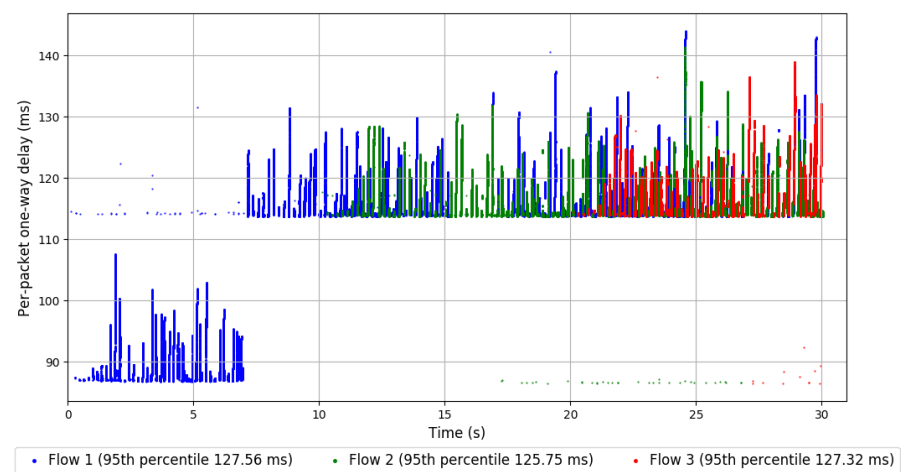
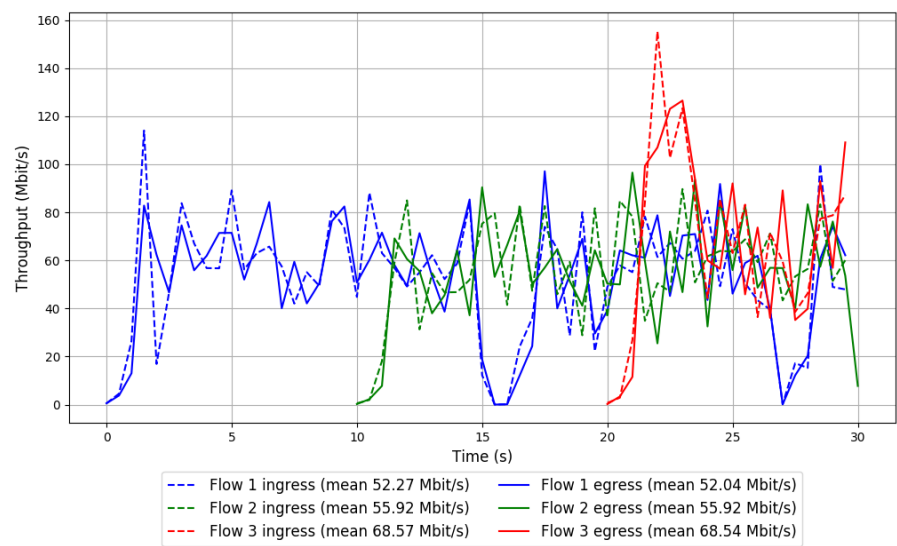
-- Flow 3:

Average throughput: 68.54 Mbit/s

95th percentile per-packet one-way delay: 127.319 ms

Loss rate: 0.00%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2017-11-30 22:23:03

End at: 2017-11-30 22:23:33

Below is generated by plot.py at 2017-12-01 01:33:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 133.74 Mbit/s

95th percentile per-packet one-way delay: 94.101 ms

Loss rate: 0.24%

-- Flow 1:

Average throughput: 76.85 Mbit/s

95th percentile per-packet one-way delay: 93.553 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 59.22 Mbit/s

95th percentile per-packet one-way delay: 94.467 ms

Loss rate: 0.82%

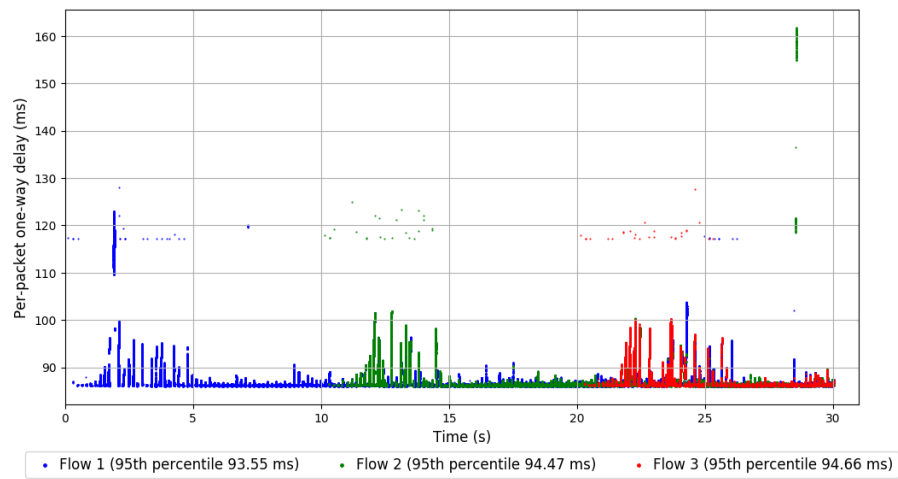
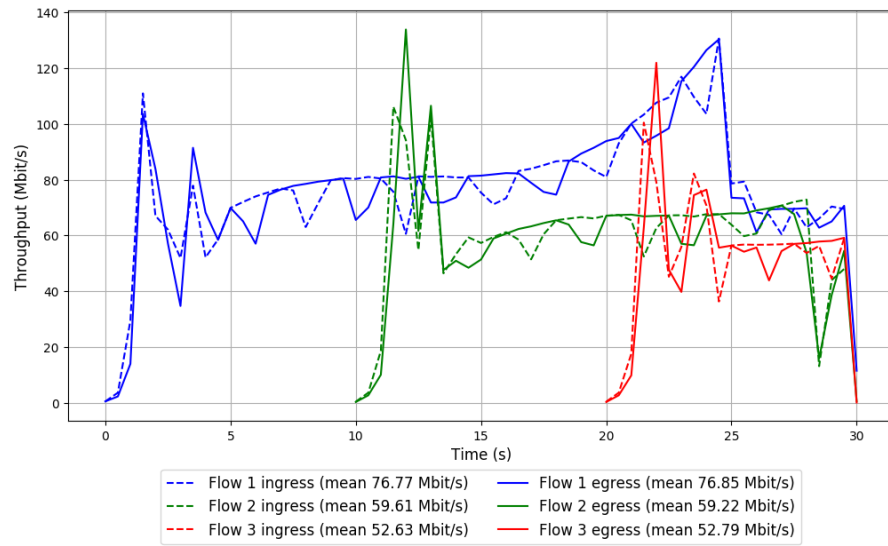
-- Flow 3:

Average throughput: 52.79 Mbit/s

95th percentile per-packet one-way delay: 94.658 ms

Loss rate: 0.00%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2017-11-30 22:35:42

End at: 2017-11-30 22:36:12

Below is generated by plot.py at 2017-12-01 01:33:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 129.19 Mbit/s

95th percentile per-packet one-way delay: 122.795 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 71.48 Mbit/s

95th percentile per-packet one-way delay: 124.057 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 60.88 Mbit/s

95th percentile per-packet one-way delay: 93.825 ms

Loss rate: 0.00%

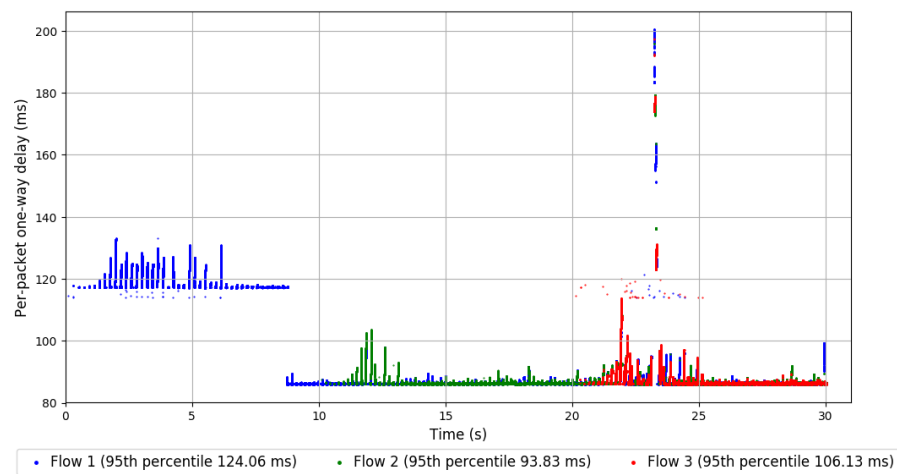
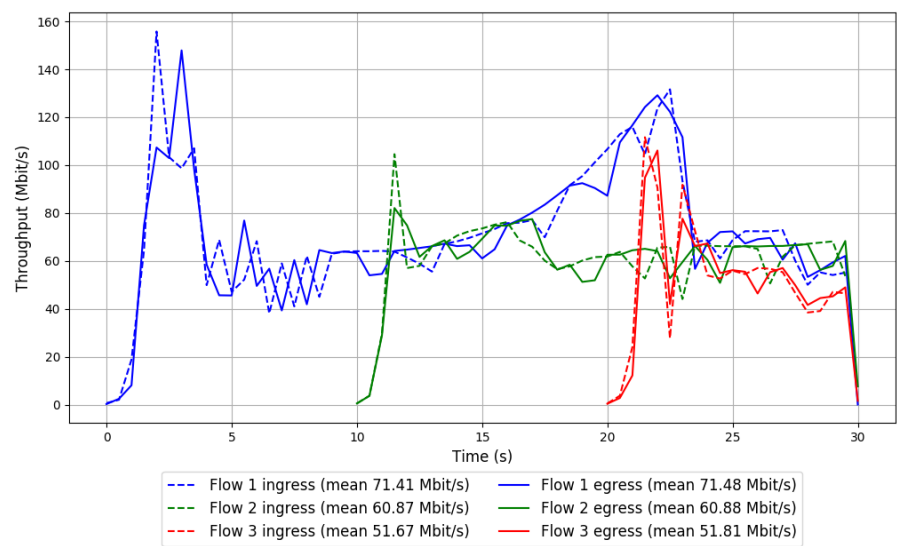
-- Flow 3:

Average throughput: 51.81 Mbit/s

95th percentile per-packet one-way delay: 106.132 ms

Loss rate: 0.01%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2017-11-30 22:48:24

End at: 2017-11-30 22:48:54

Below is generated by plot.py at 2017-12-01 01:33:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 145.32 Mbit/s

95th percentile per-packet one-way delay: 126.133 ms

Loss rate: 0.15%

-- Flow 1:

Average throughput: 82.06 Mbit/s

95th percentile per-packet one-way delay: 127.002 ms

Loss rate: 0.27%

-- Flow 2:

Average throughput: 67.38 Mbit/s

95th percentile per-packet one-way delay: 124.019 ms

Loss rate: 0.00%

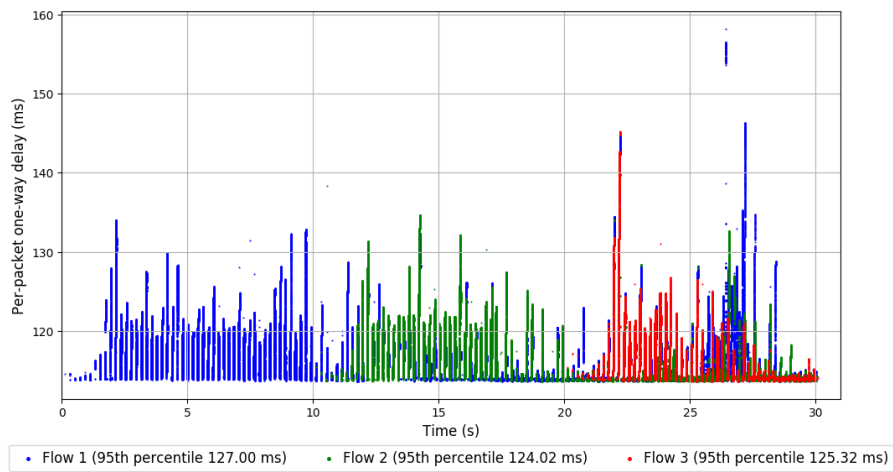
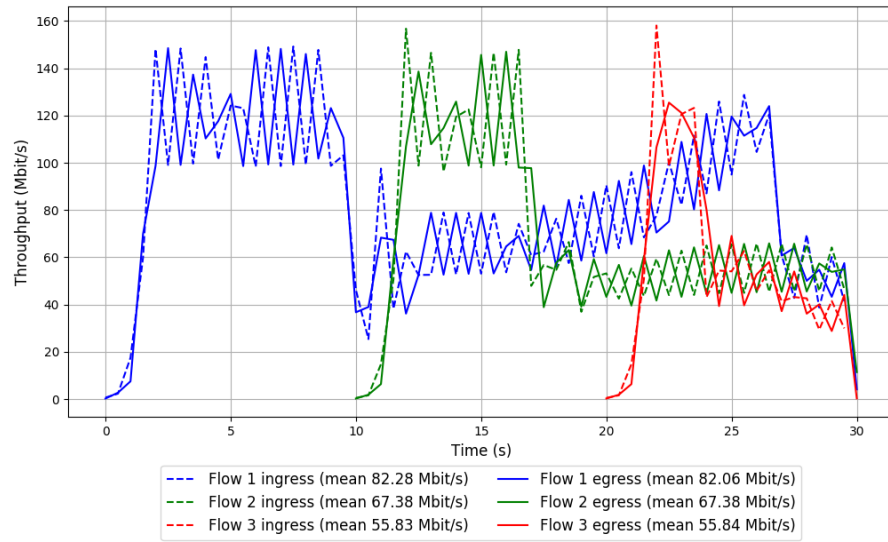
-- Flow 3:

Average throughput: 55.84 Mbit/s

95th percentile per-packet one-way delay: 125.316 ms

Loss rate: 0.01%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2017-11-30 23:01:30

End at: 2017-11-30 23:02:00

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 151.54 Mbit/s

95th percentile per-packet one-way delay: 118.488 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 85.01 Mbit/s

95th percentile per-packet one-way delay: 117.750 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 59.28 Mbit/s

95th percentile per-packet one-way delay: 119.257 ms

Loss rate: 0.03%

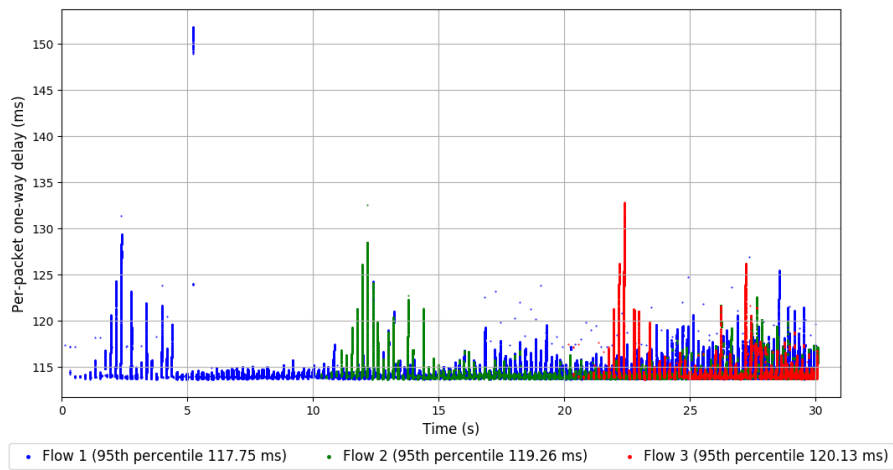
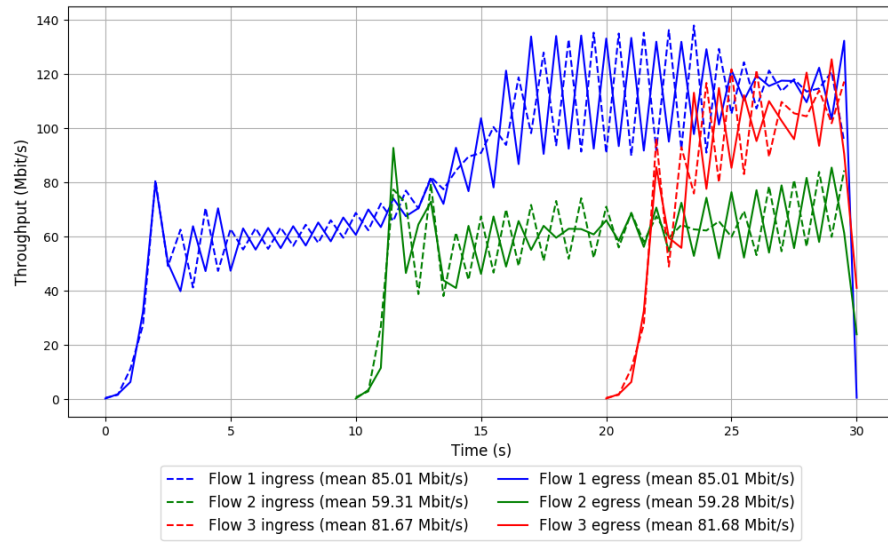
-- Flow 3:

Average throughput: 81.68 Mbit/s

95th percentile per-packet one-way delay: 120.132 ms

Loss rate: 0.00%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2017-11-30 23:14:26

End at: 2017-11-30 23:14:56

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 122.48 Mbit/s

95th percentile per-packet one-way delay: 123.211 ms

Loss rate: 0.23%

-- Flow 1:

Average throughput: 52.73 Mbit/s

95th percentile per-packet one-way delay: 121.888 ms

Loss rate: 0.53%

-- Flow 2:

Average throughput: 54.33 Mbit/s

95th percentile per-packet one-way delay: 123.425 ms

Loss rate: 0.01%

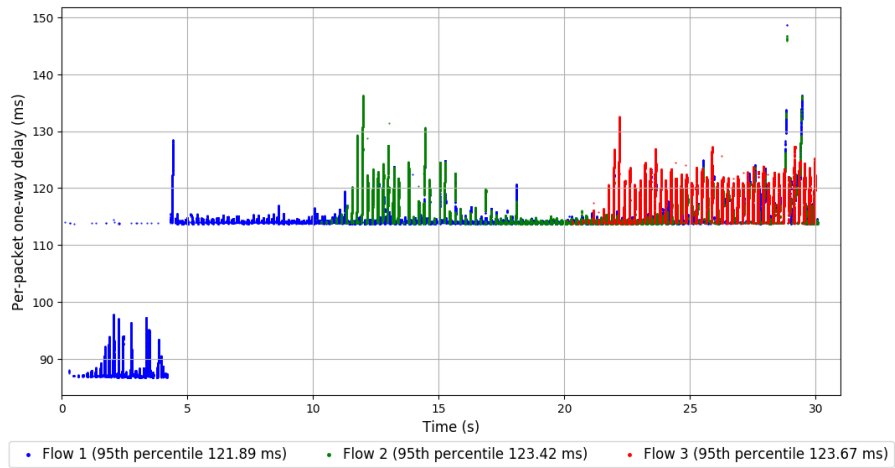
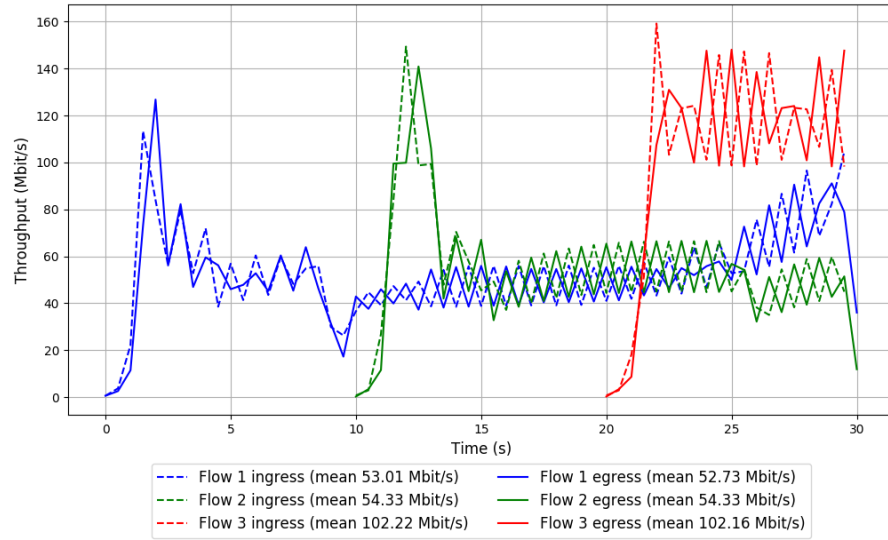
-- Flow 3:

Average throughput: 102.16 Mbit/s

95th percentile per-packet one-way delay: 123.668 ms

Loss rate: 0.00%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2017-11-30 23:26:48

End at: 2017-11-30 23:27:18

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 90.78 Mbit/s

95th percentile per-packet one-way delay: 124.365 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 79.12 Mbit/s

95th percentile per-packet one-way delay: 124.740 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 15.47 Mbit/s

95th percentile per-packet one-way delay: 114.968 ms

Loss rate: 0.03%

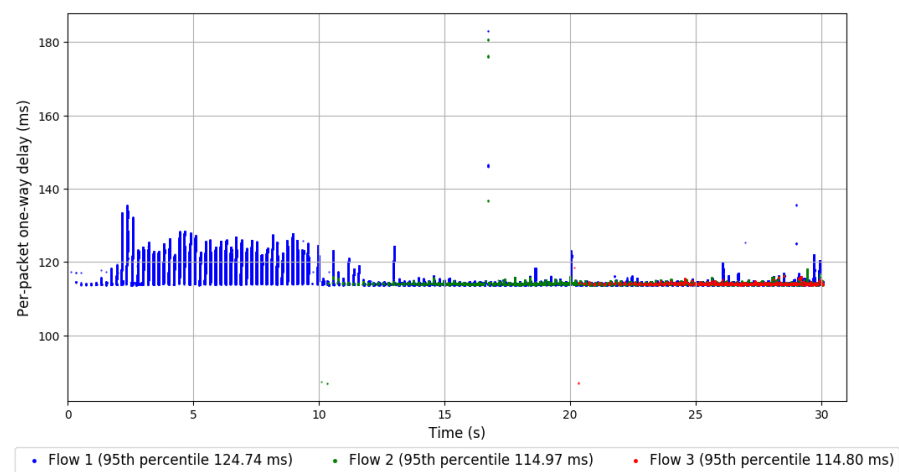
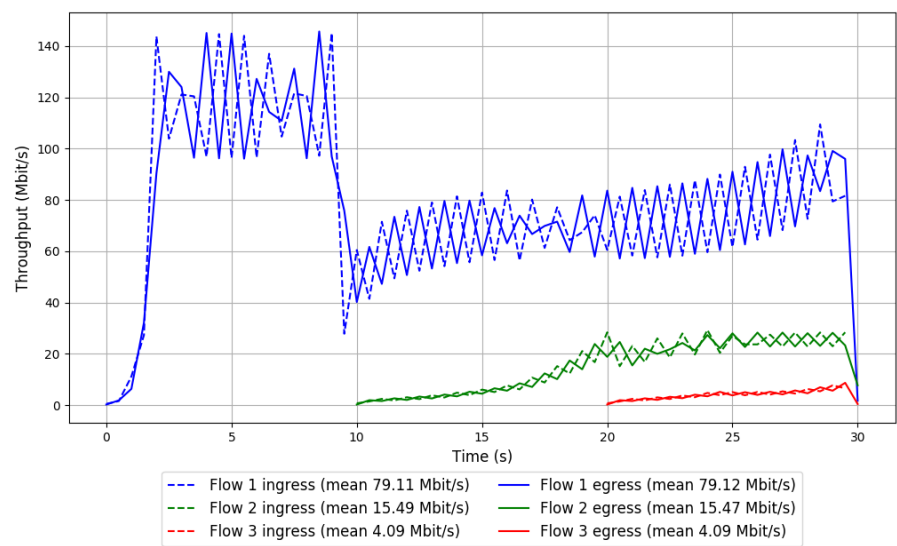
-- Flow 3:

Average throughput: 4.09 Mbit/s

95th percentile per-packet one-way delay: 114.802 ms

Loss rate: 0.00%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2017-11-30 23:39:12

End at: 2017-11-30 23:39:42

Below is generated by plot.py at 2017-12-01 01:35:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 125.14 Mbit/s

95th percentile per-packet one-way delay: 125.146 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 38.28 Mbit/s

95th percentile per-packet one-way delay: 125.797 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 80.57 Mbit/s

95th percentile per-packet one-way delay: 123.224 ms

Loss rate: 0.01%

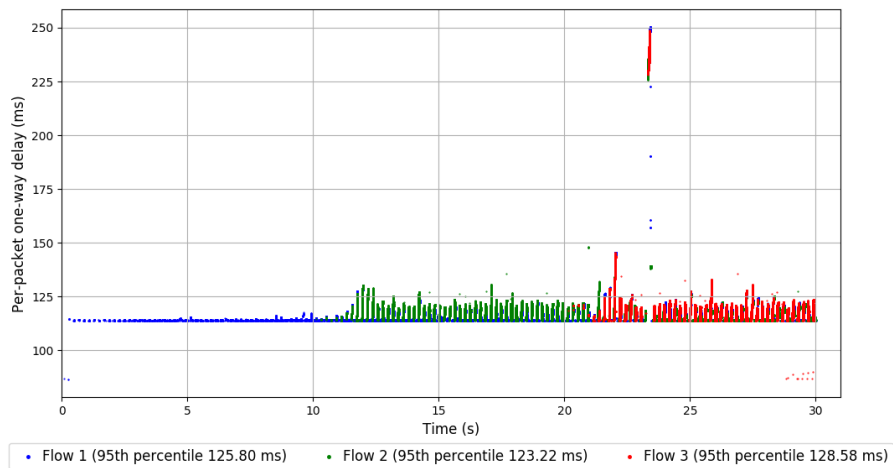
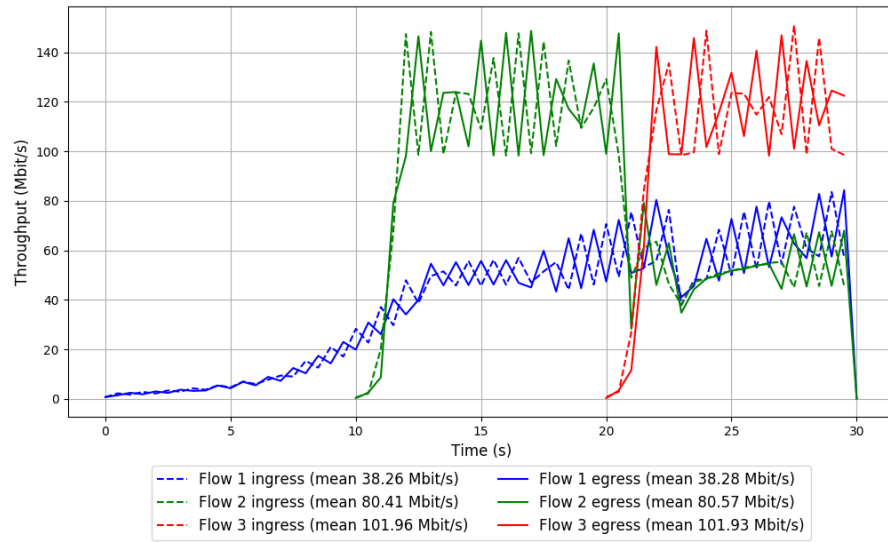
-- Flow 3:

Average throughput: 101.93 Mbit/s

95th percentile per-packet one-way delay: 128.581 ms

Loss rate: 0.00%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2017-11-30 23:51:55

End at: 2017-11-30 23:52:25

Below is generated by plot.py at 2017-12-01 01:35:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 68.79 Mbit/s

95th percentile per-packet one-way delay: 117.706 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 55.57 Mbit/s

95th percentile per-packet one-way delay: 118.865 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 16.04 Mbit/s

95th percentile per-packet one-way delay: 114.494 ms

Loss rate: 0.00%

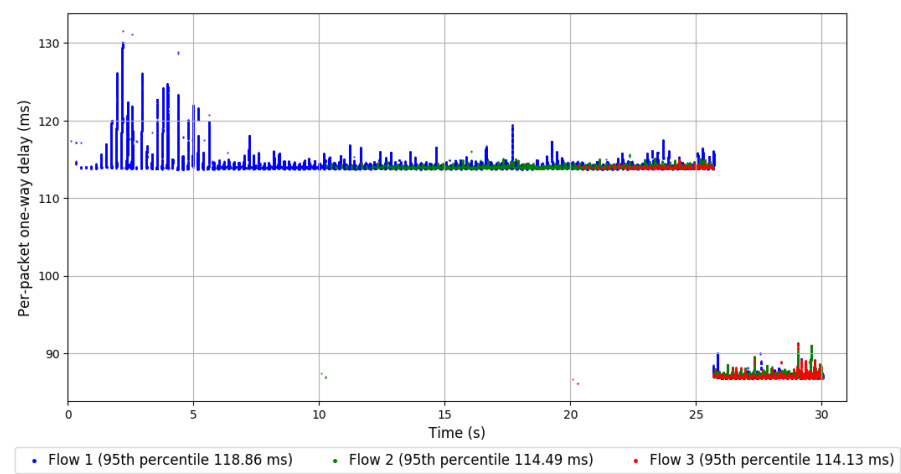
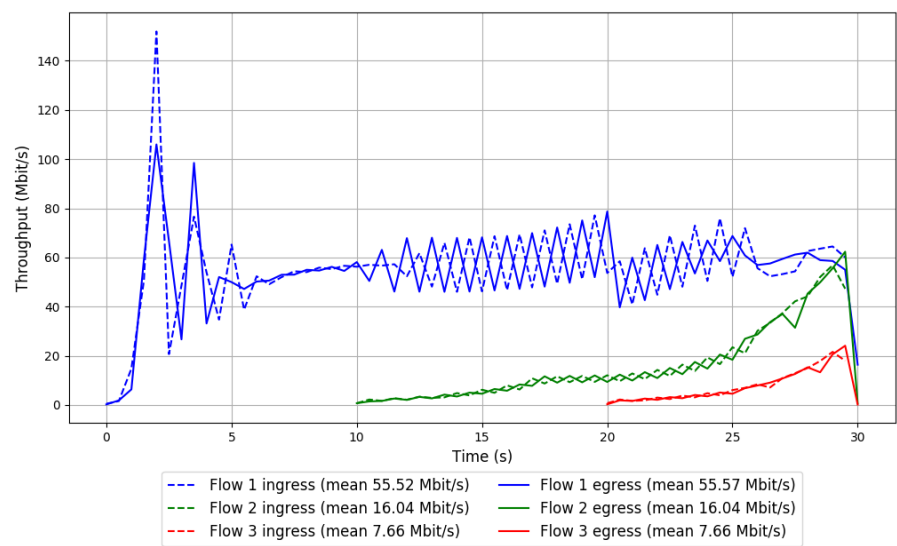
-- Flow 3:

Average throughput: 7.66 Mbit/s

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

Loss rate: 0.00%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2017-12-01 00:03:59

End at: 2017-12-01 00:04:29

Below is generated by plot.py at 2017-12-01 01:35:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 78.74 Mbit/s

95th percentile per-packet one-way delay: 122.258 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 21.98 Mbit/s

95th percentile per-packet one-way delay: 119.777 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 50.70 Mbit/s

95th percentile per-packet one-way delay: 120.764 ms

Loss rate: 0.00%

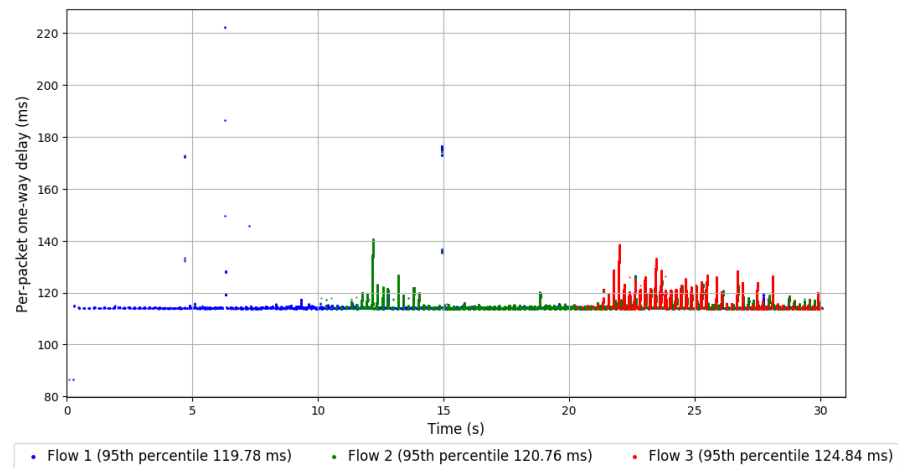
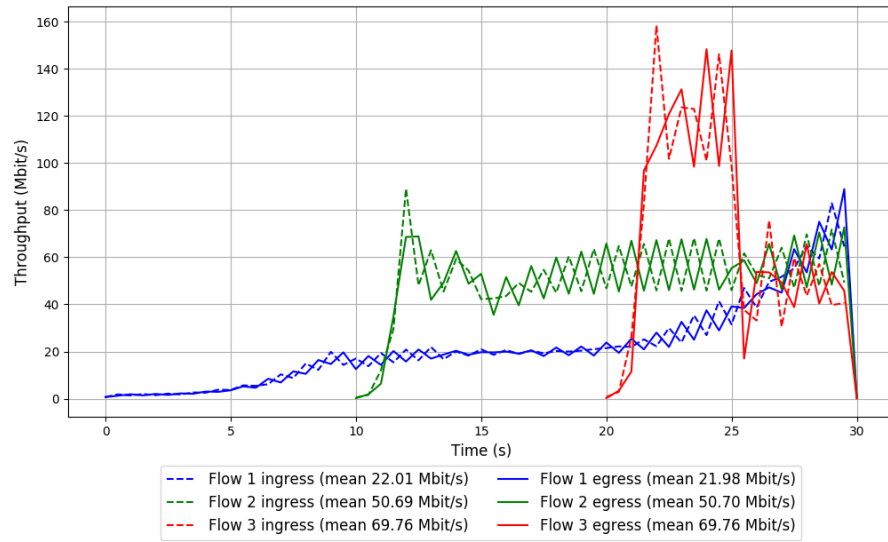
-- Flow 3:

Average throughput: 69.76 Mbit/s

95th percentile per-packet one-way delay: 124.841 ms

Loss rate: 0.01%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2017-12-01 00:16:38

End at: 2017-12-01 00:17:08

Below is generated by plot.py at 2017-12-01 01:35:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 76.92 Mbit/s

95th percentile per-packet one-way delay: 124.237 ms

Loss rate: 0.11%

-- Flow 1:

Average throughput: 64.45 Mbit/s

95th percentile per-packet one-way delay: 125.000 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 15.43 Mbit/s

95th percentile per-packet one-way delay: 114.951 ms

Loss rate: 0.00%

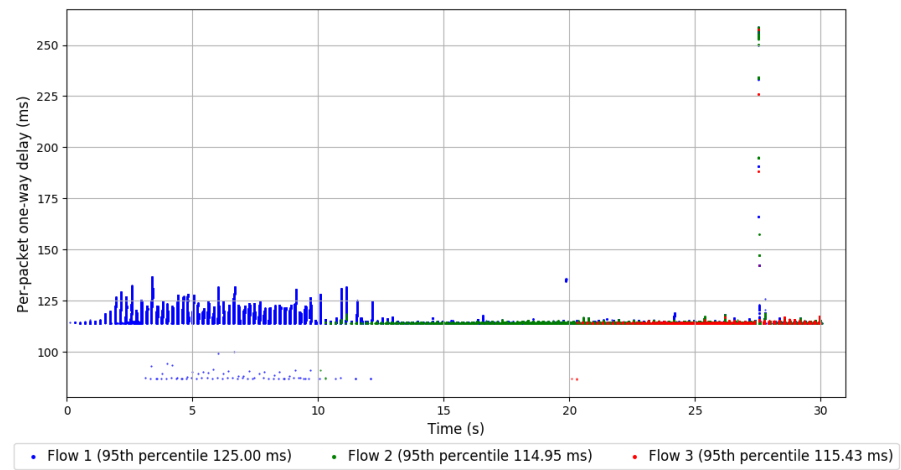
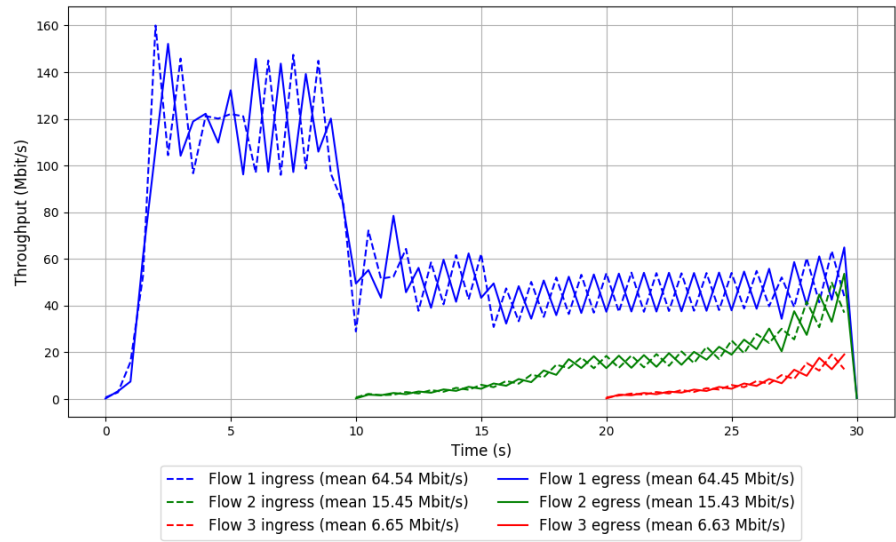
-- Flow 3:

Average throughput: 6.63 Mbit/s

95th percentile per-packet one-way delay: 115.431 ms

Loss rate: 0.00%

Run 10: Report of TCP Cubic — Data Link

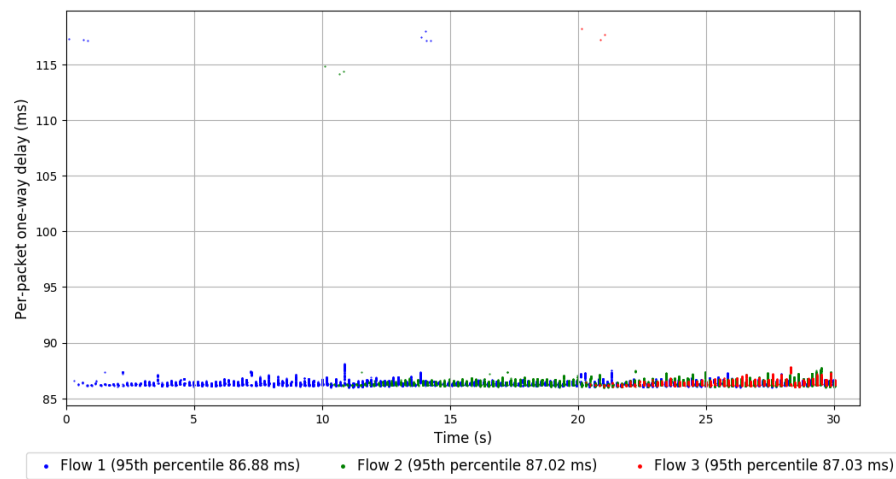
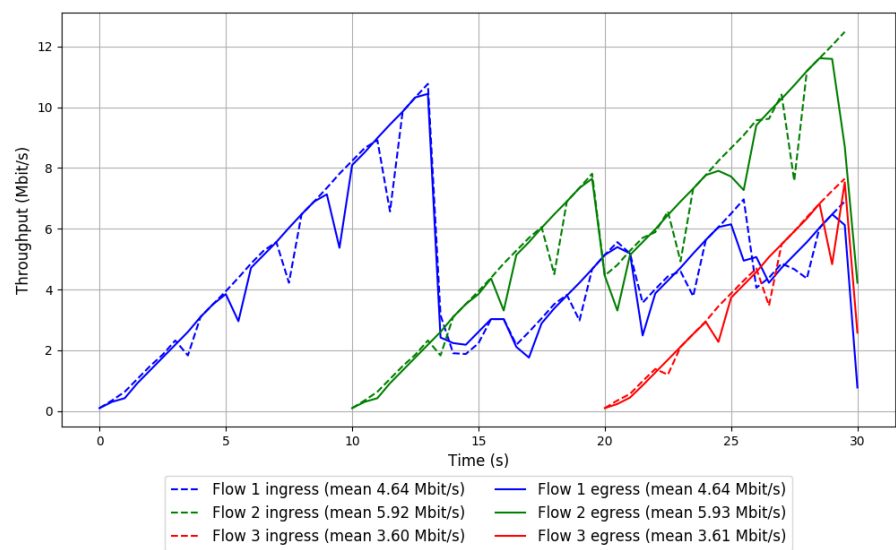


```
Run 1: Statistics of LEDBAT

Start at: 2017-11-30 22:29:27
End at: 2017-11-30 22:29:57

# Below is generated by plot.py at 2017-12-01 01:35:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 9.78 Mbit/s
95th percentile per-packet one-way delay: 86.992 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 4.64 Mbit/s
95th percentile per-packet one-way delay: 86.877 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 5.93 Mbit/s
95th percentile per-packet one-way delay: 87.023 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 3.61 Mbit/s
95th percentile per-packet one-way delay: 87.028 ms
Loss rate: 0.00%
```


Run 1: Report of LEDBAT — Data Link

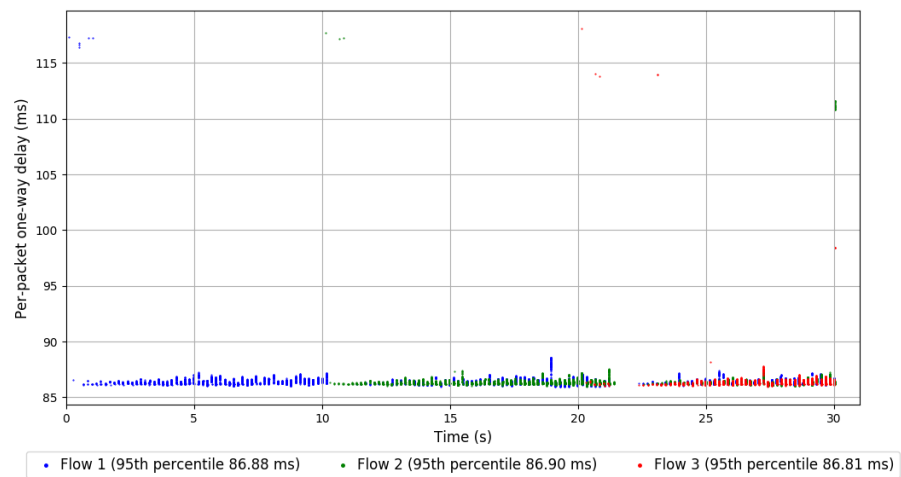
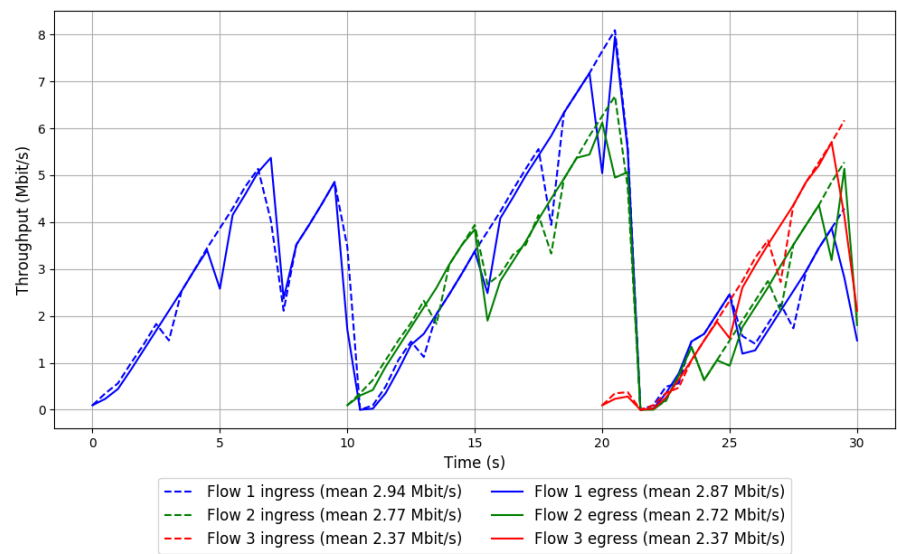


```
Run 2: Statistics of LEDBAT

Start at: 2017-11-30 22:42:05
End at: 2017-11-30 22:42:35

# Below is generated by plot.py at 2017-12-01 01:35:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 5.46 Mbit/s
95th percentile per-packet one-way delay: 86.878 ms
Loss rate: 2.06%
-- Flow 1:
Average throughput: 2.87 Mbit/s
95th percentile per-packet one-way delay: 86.880 ms
Loss rate: 2.68%
-- Flow 2:
Average throughput: 2.72 Mbit/s
95th percentile per-packet one-way delay: 86.902 ms
Loss rate: 1.76%
-- Flow 3:
Average throughput: 2.37 Mbit/s
95th percentile per-packet one-way delay: 86.815 ms
Loss rate: 0.45%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2017-11-30 22:55:11

End at: 2017-11-30 22:55:41

Below is generated by plot.py at 2017-12-01 01:35:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 7.24 Mbit/s

95th percentile per-packet one-way delay: 115.313 ms

Loss rate: 0.17%

-- Flow 1:

Average throughput: 3.26 Mbit/s

95th percentile per-packet one-way delay: 115.403 ms

Loss rate: 0.37%

-- Flow 2:

Average throughput: 5.65 Mbit/s

95th percentile per-packet one-way delay: 115.275 ms

Loss rate: 0.00%

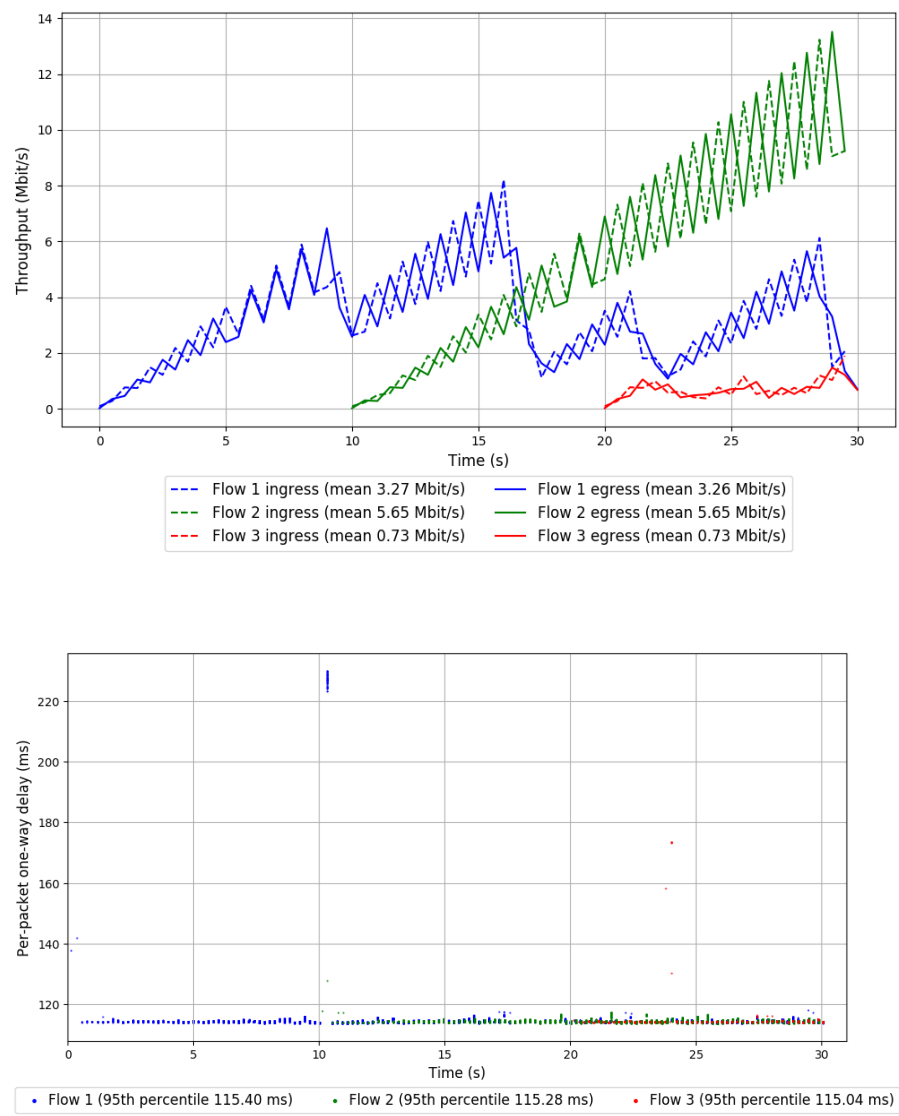
-- Flow 3:

Average throughput: 0.73 Mbit/s

95th percentile per-packet one-way delay: 115.039 ms

Loss rate: 0.00%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2017-11-30 23:08:09

End at: 2017-11-30 23:08:39

Below is generated by plot.py at 2017-12-01 01:35:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 5.80 Mbit/s

95th percentile per-packet one-way delay: 114.851 ms

Loss rate: 2.33%

-- Flow 1:

Average throughput: 4.11 Mbit/s

95th percentile per-packet one-way delay: 114.790 ms

Loss rate: 1.48%

-- Flow 2:

Average throughput: 1.87 Mbit/s

95th percentile per-packet one-way delay: 115.080 ms

Loss rate: 4.40%

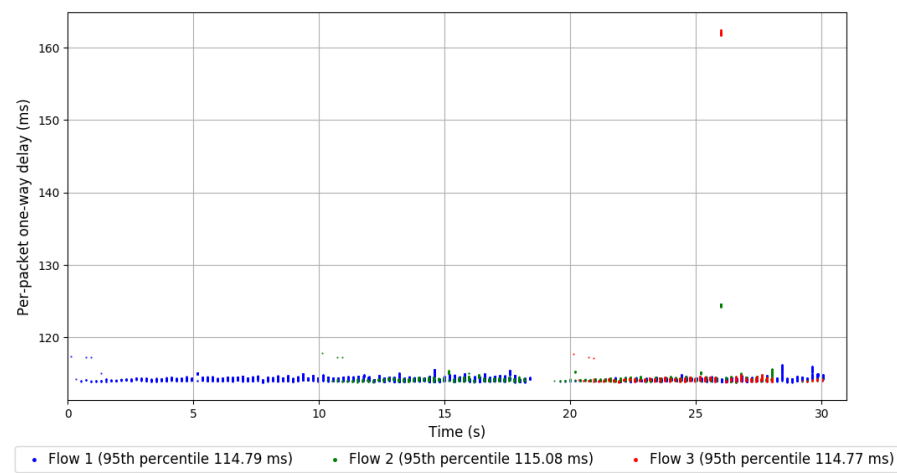
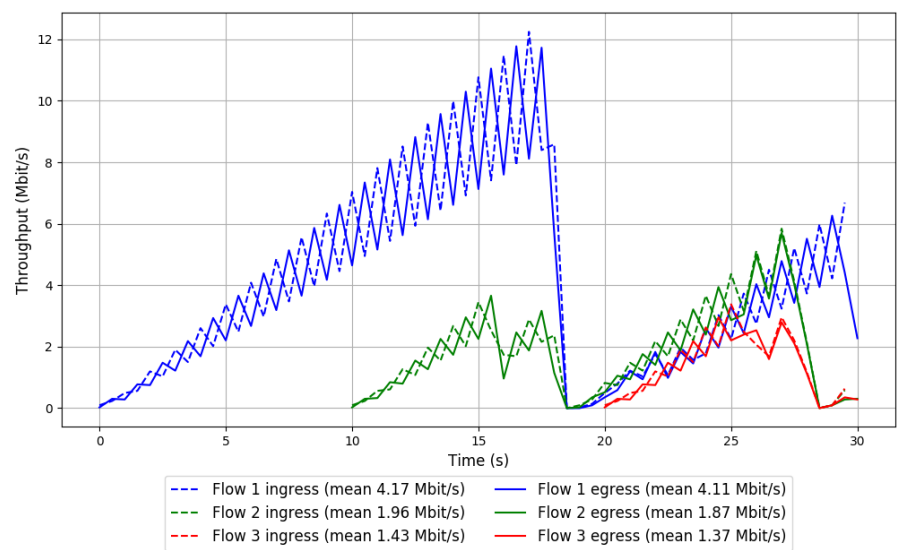
-- Flow 3:

Average throughput: 1.37 Mbit/s

95th percentile per-packet one-way delay: 114.768 ms

Loss rate: 4.22%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2017-11-30 23:20:54

End at: 2017-11-30 23:21:24

Below is generated by plot.py at 2017-12-01 01:35:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 6.43 Mbit/s

95th percentile per-packet one-way delay: 114.699 ms

Loss rate: 0.13%

-- Flow 1:

Average throughput: 3.10 Mbit/s

95th percentile per-packet one-way delay: 114.555 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 3.93 Mbit/s

95th percentile per-packet one-way delay: 114.984 ms

Loss rate: 0.00%

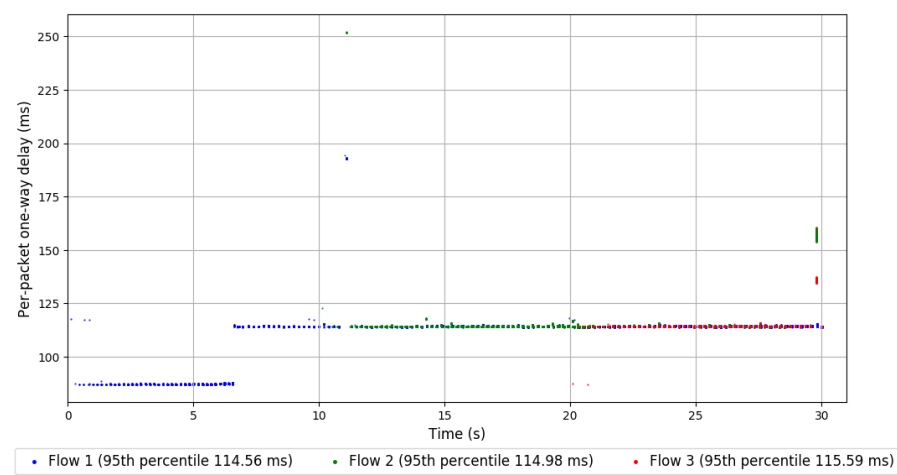
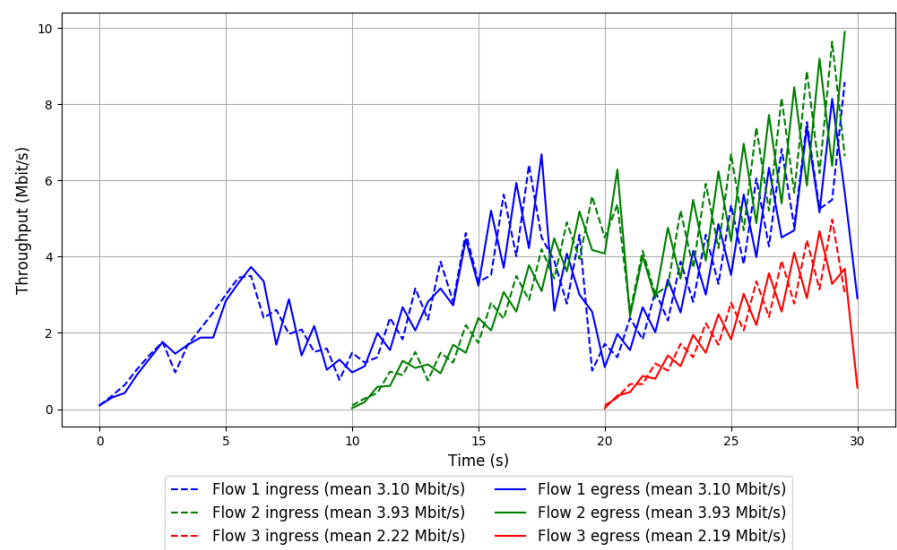
-- Flow 3:

Average throughput: 2.19 Mbit/s

95th percentile per-packet one-way delay: 115.592 ms

Loss rate: 1.07%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2017-11-30 23:33:08

End at: 2017-11-30 23:33:38

Below is generated by plot.py at 2017-12-01 01:35:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 9.62 Mbit/s

95th percentile per-packet one-way delay: 115.369 ms

Loss rate: 0.55%

-- Flow 1:

Average throughput: 6.62 Mbit/s

95th percentile per-packet one-way delay: 115.442 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 3.47 Mbit/s

95th percentile per-packet one-way delay: 114.888 ms

Loss rate: 2.19%

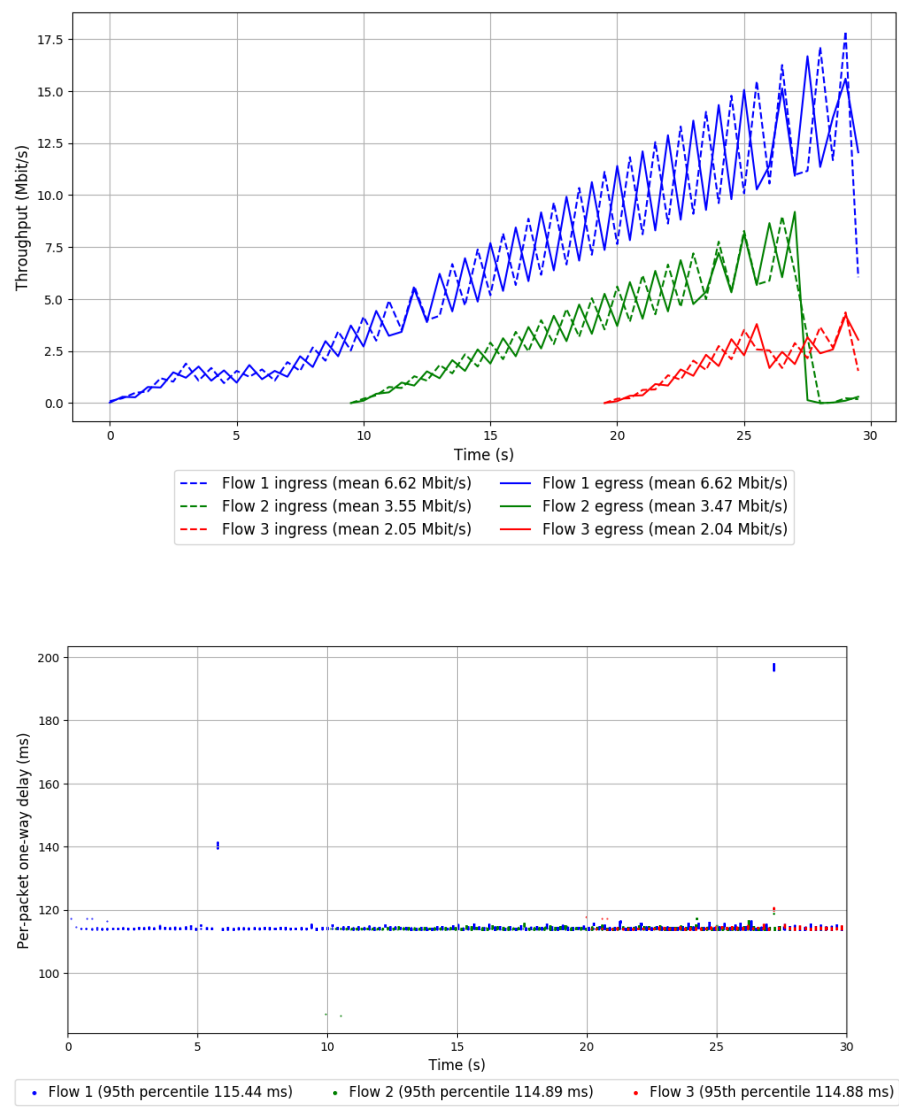
-- Flow 3:

Average throughput: 2.04 Mbit/s

95th percentile per-packet one-way delay: 114.884 ms

Loss rate: 0.17%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2017-11-30 23:45:44

End at: 2017-11-30 23:46:14

Below is generated by plot.py at 2017-12-01 01:35:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 5.20 Mbit/s

95th percentile per-packet one-way delay: 114.800 ms

Loss rate: 1.08%

-- Flow 1:

Average throughput: 3.28 Mbit/s

95th percentile per-packet one-way delay: 114.957 ms

Loss rate: 0.58%

-- Flow 2:

Average throughput: 1.78 Mbit/s

95th percentile per-packet one-way delay: 114.939 ms

Loss rate: 3.07%

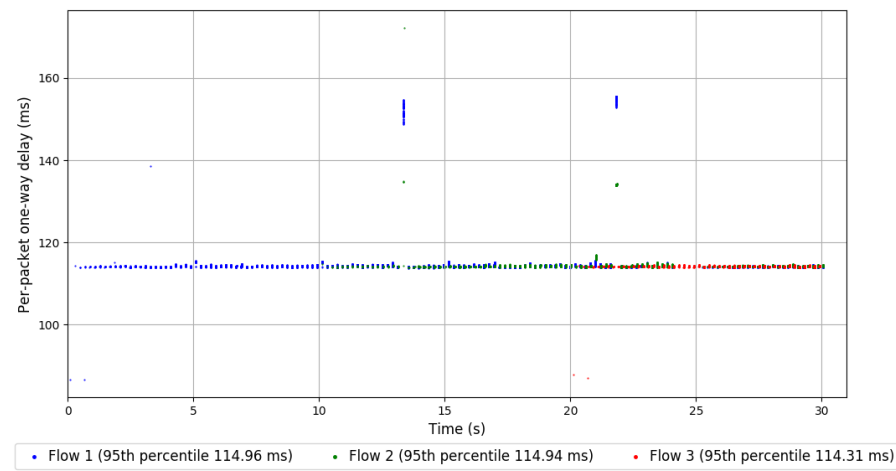
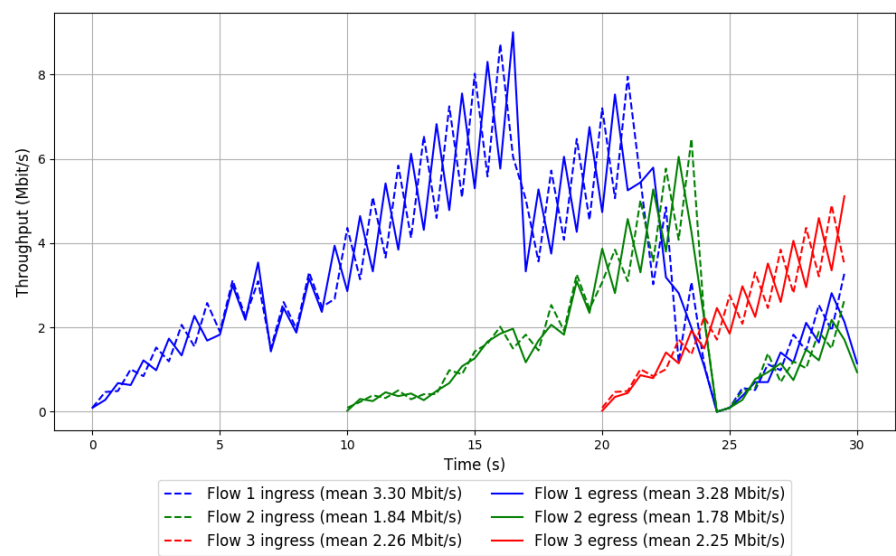
-- Flow 3:

Average throughput: 2.25 Mbit/s

95th percentile per-packet one-way delay: 114.310 ms

Loss rate: 0.00%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2017-11-30 23:58:07

End at: 2017-11-30 23:58:37

Below is generated by plot.py at 2017-12-01 01:35:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 9.18 Mbit/s

95th percentile per-packet one-way delay: 115.197 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 5.83 Mbit/s

95th percentile per-packet one-way delay: 115.316 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 3.65 Mbit/s

95th percentile per-packet one-way delay: 114.869 ms

Loss rate: 0.13%

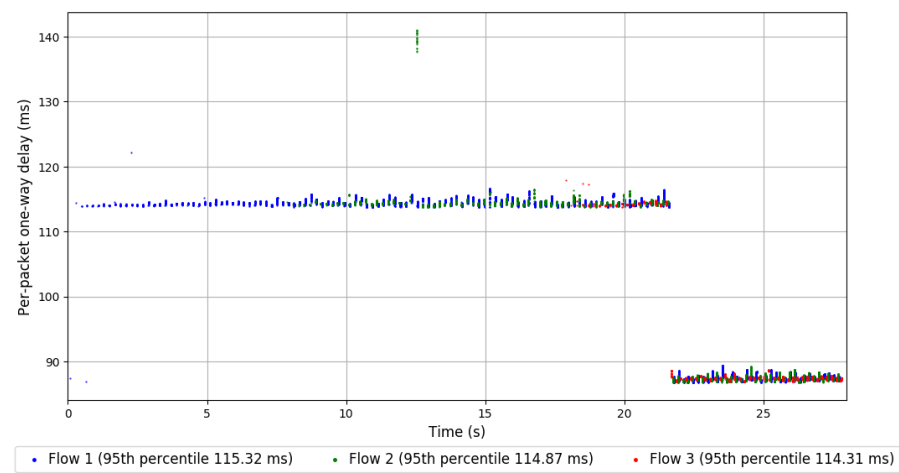
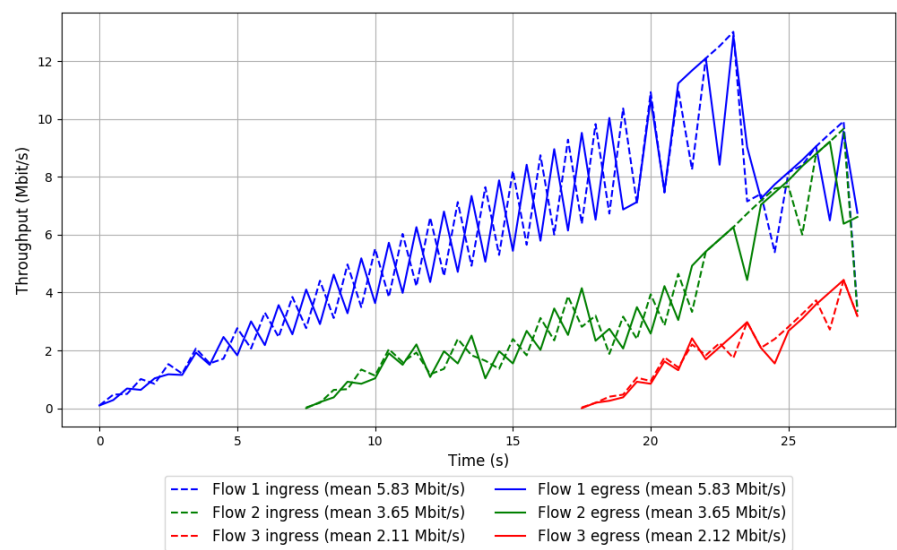
-- Flow 3:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 114.313 ms

Loss rate: 0.00%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2017-12-01 00:10:40

End at: 2017-12-01 00:11:10

Below is generated by plot.py at 2017-12-01 01:35:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 6.43 Mbit/s

95th percentile per-packet one-way delay: 114.918 ms

Loss rate: 0.65%

-- Flow 1:

Average throughput: 2.85 Mbit/s

95th percentile per-packet one-way delay: 114.981 ms

Loss rate: 1.44%

-- Flow 2:

Average throughput: 4.50 Mbit/s

95th percentile per-packet one-way delay: 114.943 ms

Loss rate: 0.00%

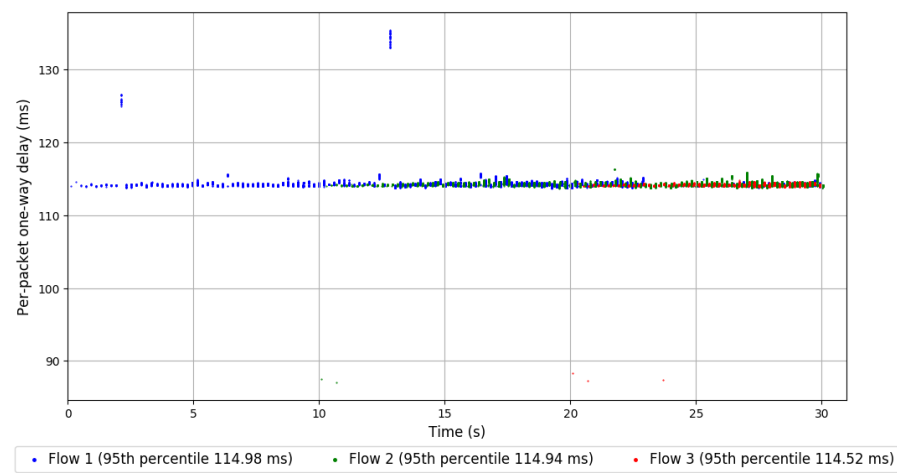
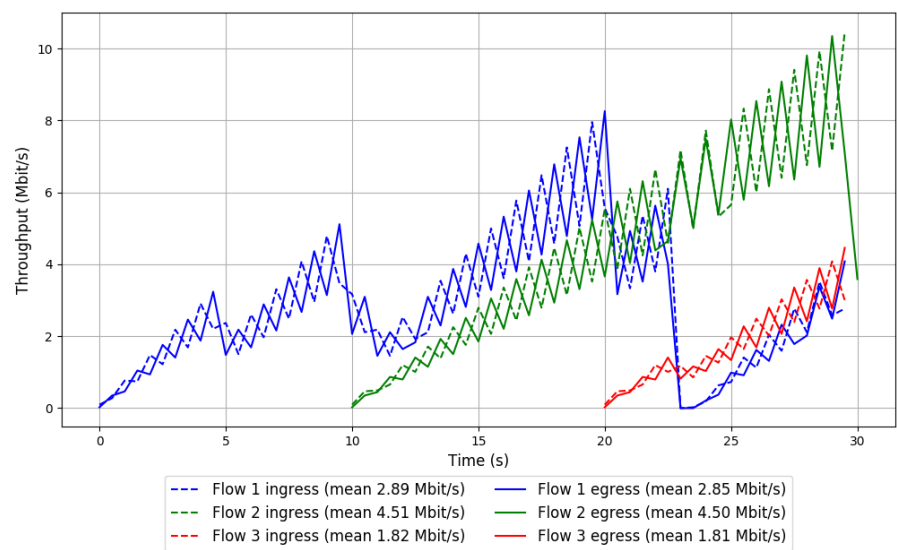
-- Flow 3:

Average throughput: 1.81 Mbit/s

95th percentile per-packet one-way delay: 114.515 ms

Loss rate: 0.07%

Run 9: Report of LEDBAT — Data Link

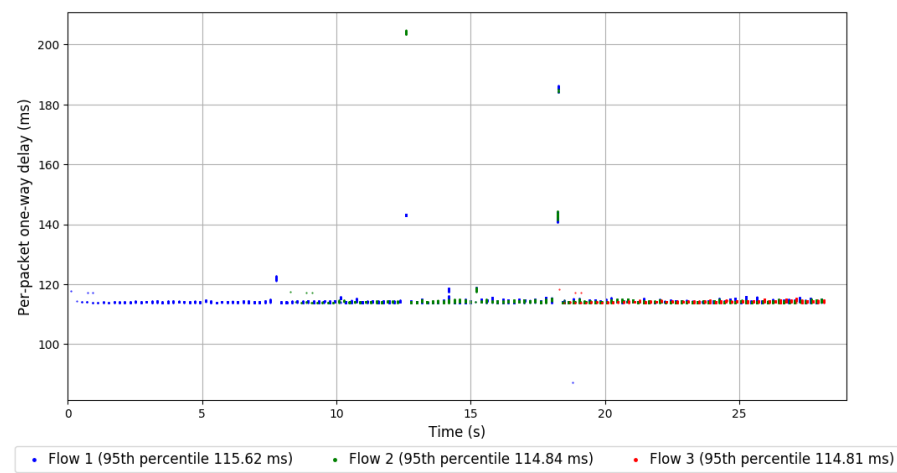
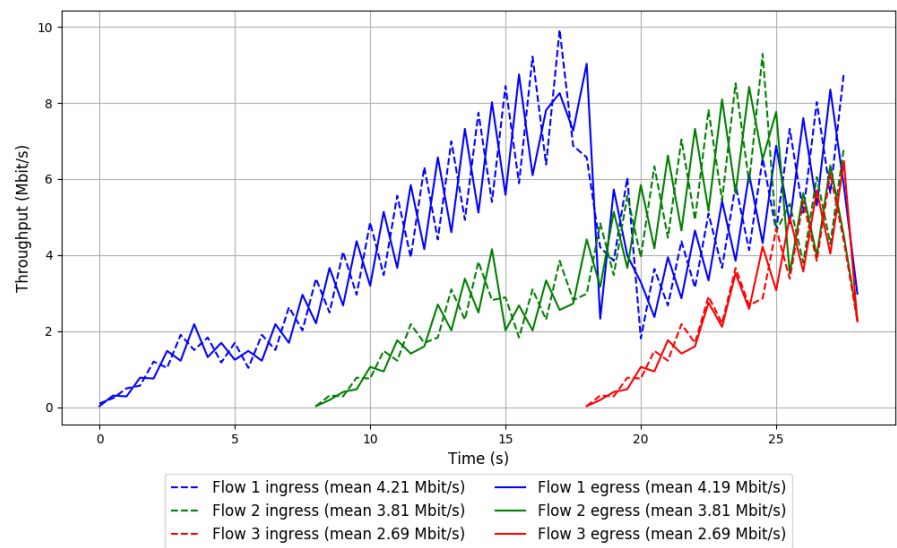


```
Run 10: Statistics of LEDBAT

Start at: 2017-12-01 00:23:21
End at: 2017-12-01 00:23:51

# Below is generated by plot.py at 2017-12-01 01:35:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 7.81 Mbit/s
95th percentile per-packet one-way delay: 115.316 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 4.19 Mbit/s
95th percentile per-packet one-way delay: 115.624 ms
Loss rate: 0.45%
-- Flow 2:
Average throughput: 3.81 Mbit/s
95th percentile per-packet one-way delay: 114.836 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 2.69 Mbit/s
95th percentile per-packet one-way delay: 114.806 ms
Loss rate: 0.00%
```

Run 10: Report of LEDBAT — Data Link

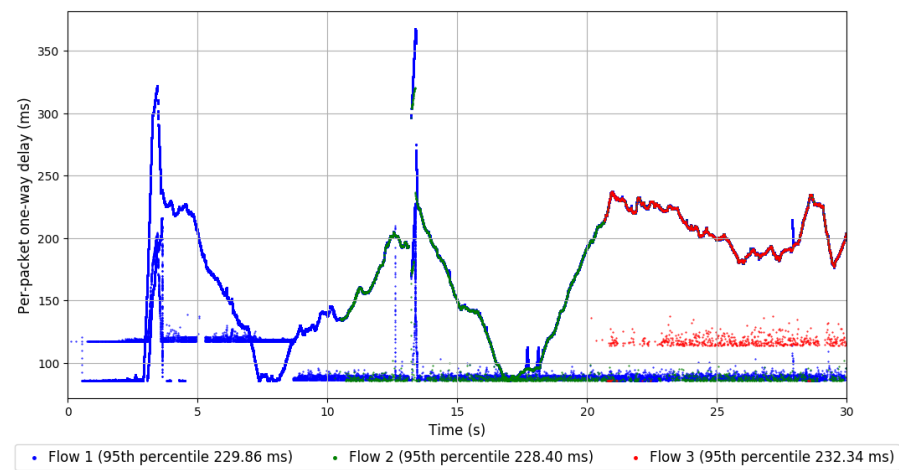
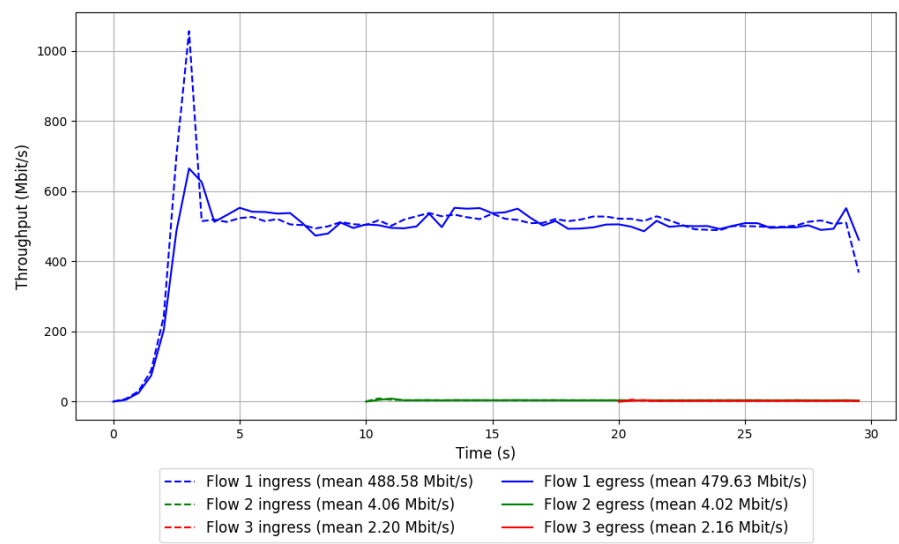


```
Run 1: Statistics of PCC

Start at: 2017-11-30 22:20:22
End at: 2017-11-30 22:20:52

# Below is generated by plot.py at 2017-12-01 01:42:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 483.01 Mbit/s
95th percentile per-packet one-way delay: 229.875 ms
Loss rate: 1.82%
-- Flow 1:
Average throughput: 479.63 Mbit/s
95th percentile per-packet one-way delay: 229.864 ms
Loss rate: 1.83%
-- Flow 2:
Average throughput: 4.02 Mbit/s
95th percentile per-packet one-way delay: 228.395 ms
Loss rate: 0.83%
-- Flow 3:
Average throughput: 2.16 Mbit/s
95th percentile per-packet one-way delay: 232.343 ms
Loss rate: 2.11%
```

Run 1: Report of PCC — Data Link

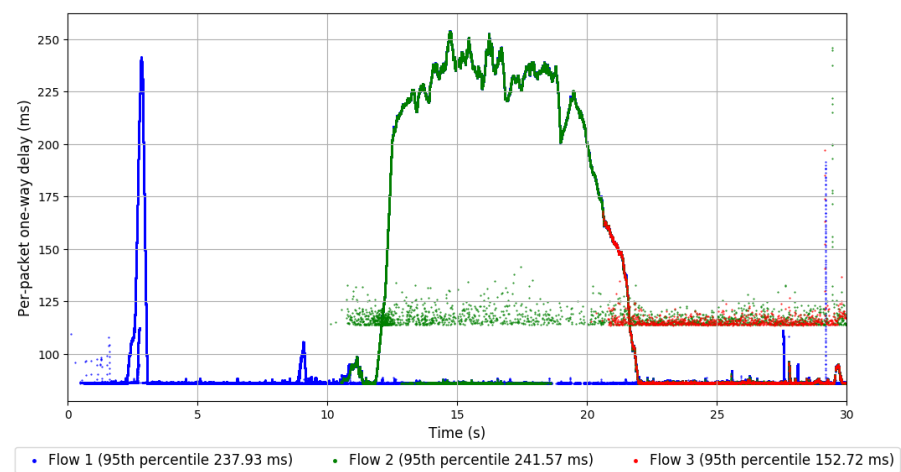
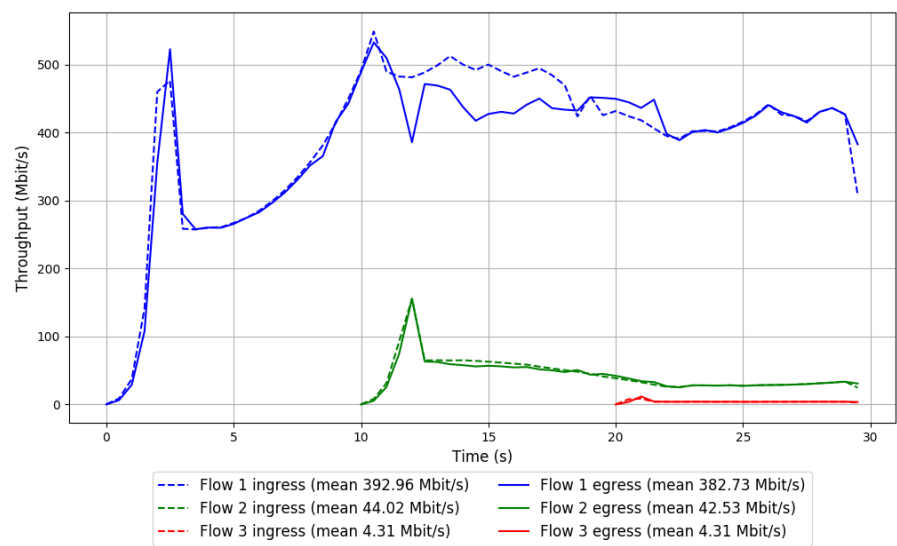


```
Run 2: Statistics of PCC

Start at: 2017-11-30 22:33:05
End at: 2017-11-30 22:33:35

# Below is generated by plot.py at 2017-12-01 01:42:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 412.09 Mbit/s
95th percentile per-packet one-way delay: 238.121 ms
Loss rate: 2.72%
-- Flow 1:
Average throughput: 382.73 Mbit/s
95th percentile per-packet one-way delay: 237.932 ms
Loss rate: 2.68%
-- Flow 2:
Average throughput: 42.53 Mbit/s
95th percentile per-packet one-way delay: 241.568 ms
Loss rate: 3.46%
-- Flow 3:
Average throughput: 4.31 Mbit/s
95th percentile per-packet one-way delay: 152.720 ms
Loss rate: 0.00%
```

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2017-11-30 22:45:44

End at: 2017-11-30 22:46:14

Below is generated by plot.py at 2017-12-01 01:42:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 483.29 Mbit/s

95th percentile per-packet one-way delay: 264.554 ms

Loss rate: 2.42%

-- Flow 1:

Average throughput: 471.20 Mbit/s

95th percentile per-packet one-way delay: 264.519 ms

Loss rate: 2.43%

-- Flow 2:

Average throughput: 16.32 Mbit/s

95th percentile per-packet one-way delay: 265.114 ms

Loss rate: 1.71%

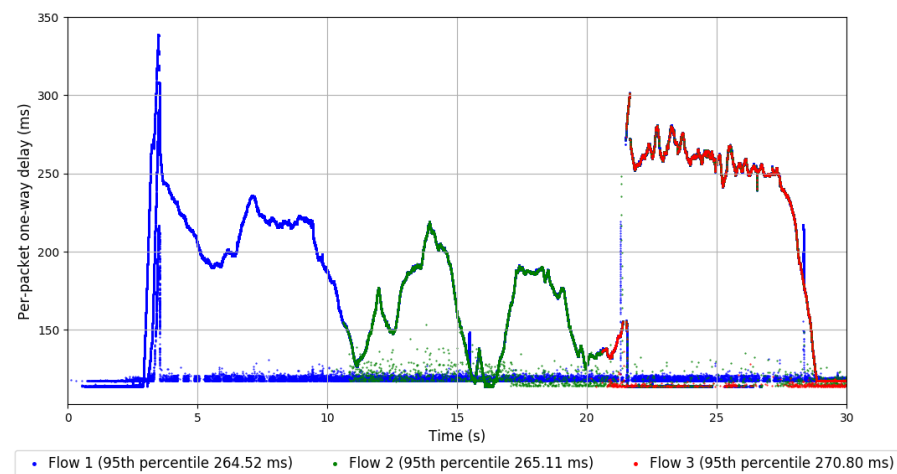
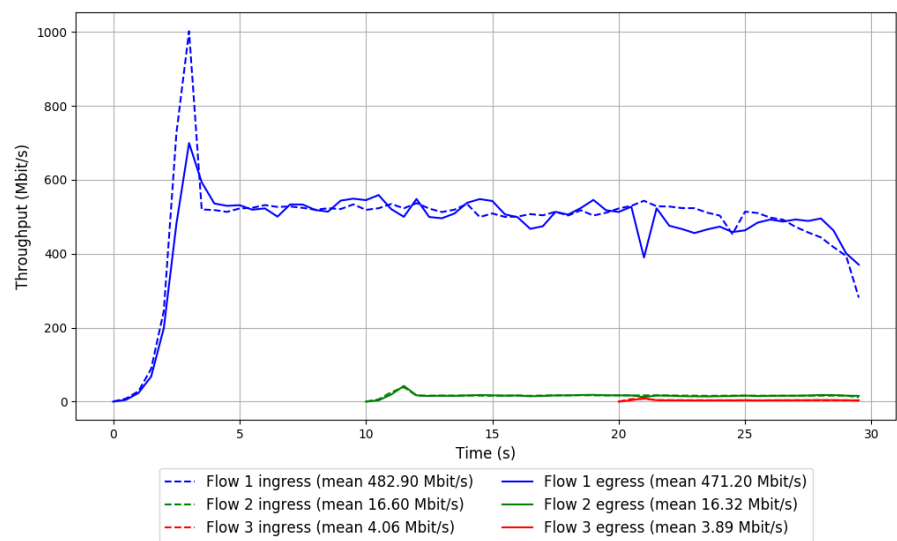
-- Flow 3:

Average throughput: 3.89 Mbit/s

95th percentile per-packet one-way delay: 270.802 ms

Loss rate: 4.27%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2017-11-30 22:58:50

End at: 2017-11-30 22:59:20

Below is generated by plot.py at 2017-12-01 01:42:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 469.50 Mbit/s

95th percentile per-packet one-way delay: 261.093 ms

Loss rate: 2.41%

-- Flow 1:

Average throughput: 425.99 Mbit/s

95th percentile per-packet one-way delay: 261.854 ms

Loss rate: 2.56%

-- Flow 2:

Average throughput: 64.31 Mbit/s

95th percentile per-packet one-way delay: 251.878 ms

Loss rate: 0.86%

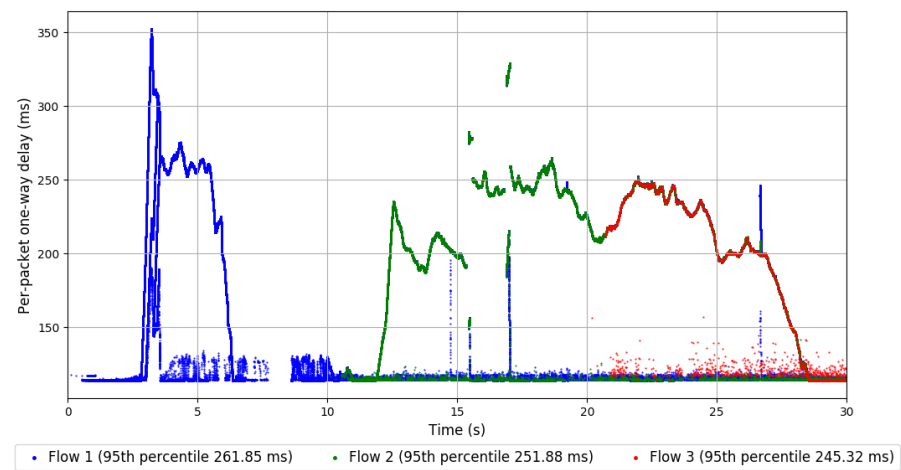
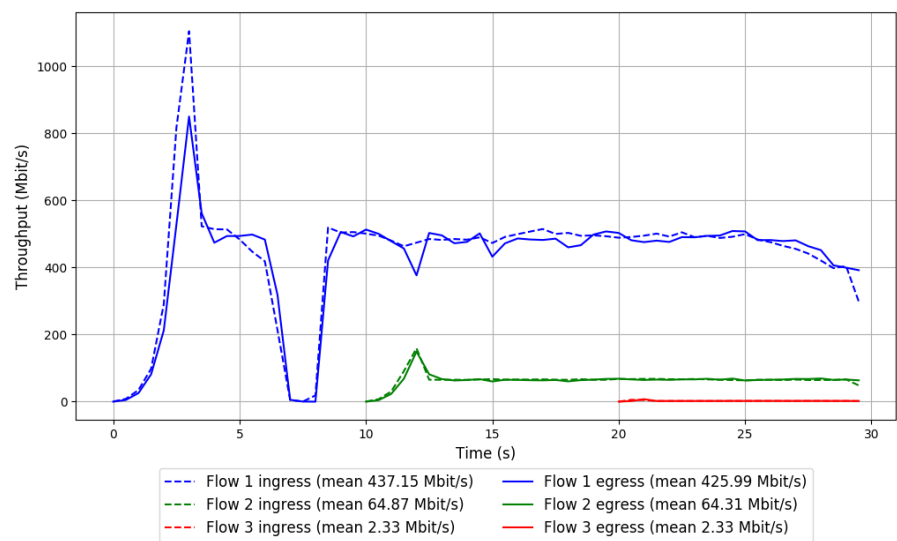
-- Flow 3:

Average throughput: 2.33 Mbit/s

95th percentile per-packet one-way delay: 245.323 ms

Loss rate: 0.52%

Run 4: Report of PCC — Data Link

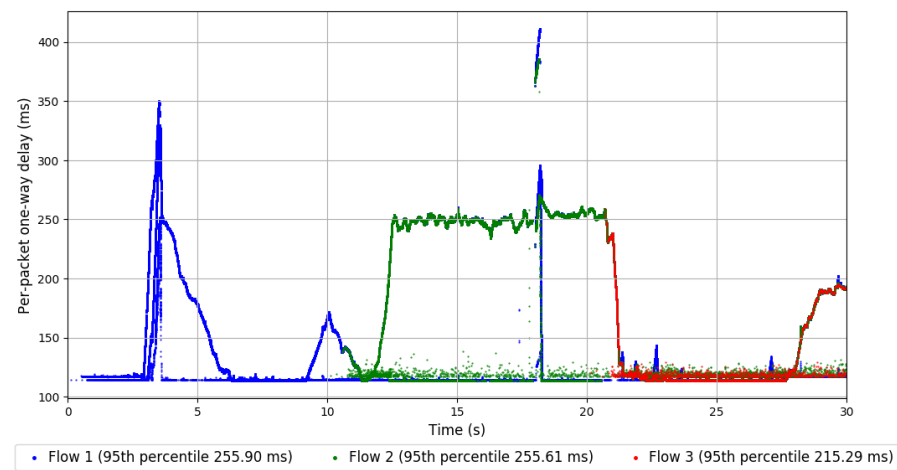
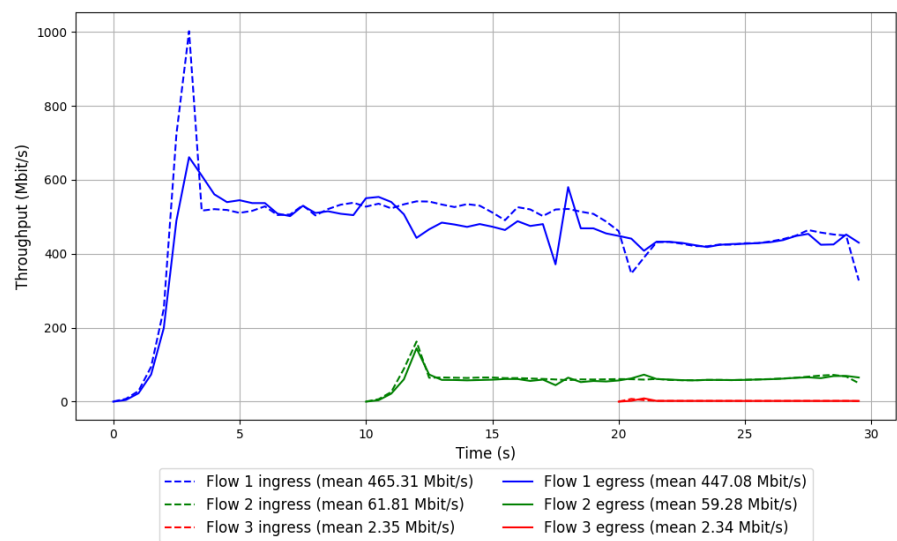


```
Run 5: Statistics of PCC

Start at: 2017-11-30 23:11:47
End at: 2017-11-30 23:12:17

# Below is generated by plot.py at 2017-12-01 01:42:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 487.25 Mbit/s
95th percentile per-packet one-way delay: 255.843 ms
Loss rate: 3.92%
-- Flow 1:
Average throughput: 447.08 Mbit/s
95th percentile per-packet one-way delay: 255.897 ms
Loss rate: 3.91%
-- Flow 2:
Average throughput: 59.28 Mbit/s
95th percentile per-packet one-way delay: 255.606 ms
Loss rate: 4.10%
-- Flow 3:
Average throughput: 2.34 Mbit/s
95th percentile per-packet one-way delay: 215.295 ms
Loss rate: 0.67%
```

Run 5: Report of PCC — Data Link

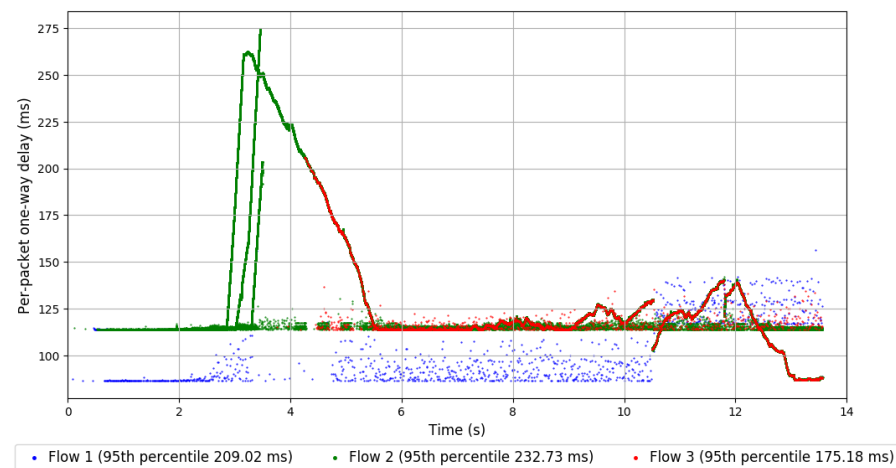
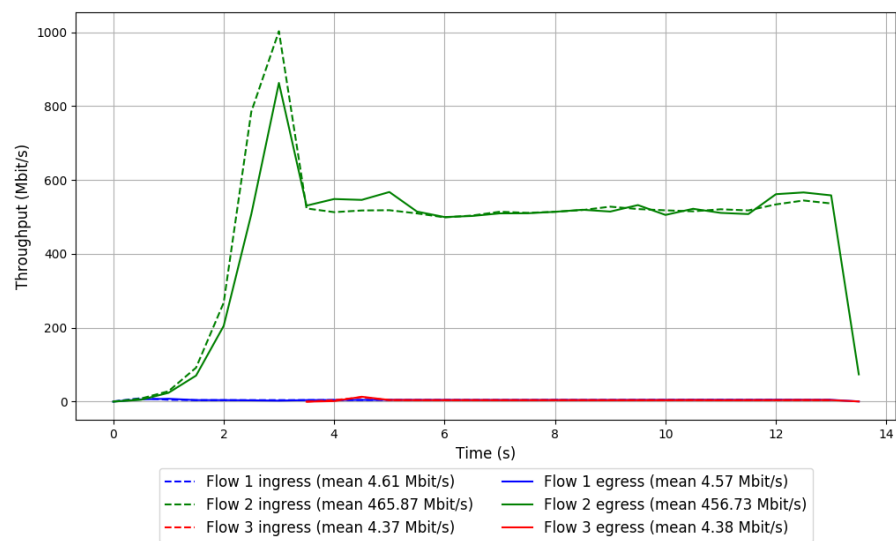


Run 6: Statistics of PCC

Start at: 2017-11-30 23:24:24

End at: 2017-11-30 23:24:54

Run 6: Report of PCC — Data Link

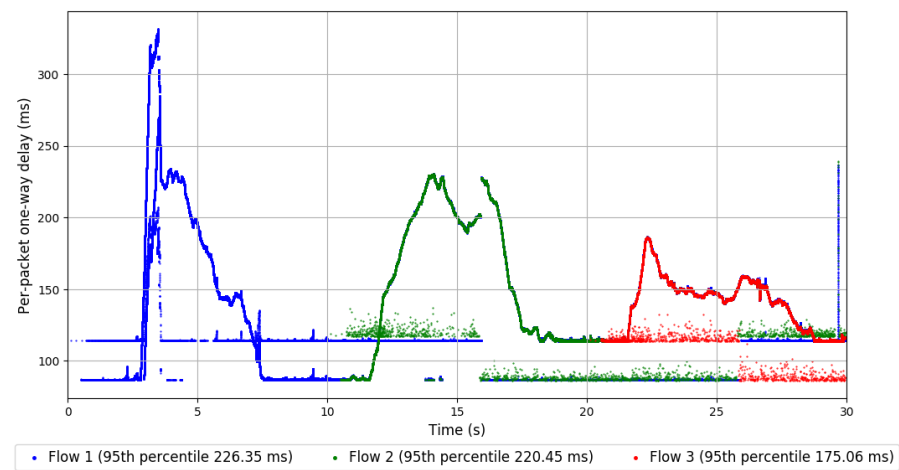
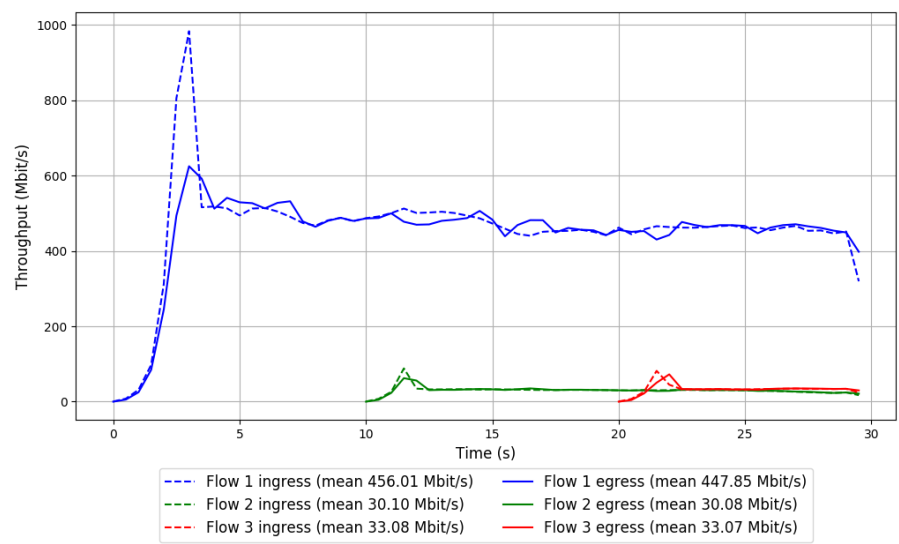


```
Run 7: Statistics of PCC

Start at: 2017-11-30 23:36:35
End at: 2017-11-30 23:37:05

# Below is generated by plot.py at 2017-12-01 01:42:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 478.66 Mbit/s
95th percentile per-packet one-way delay: 225.986 ms
Loss rate: 1.77%
-- Flow 1:
Average throughput: 447.85 Mbit/s
95th percentile per-packet one-way delay: 226.355 ms
Loss rate: 1.88%
-- Flow 2:
Average throughput: 30.08 Mbit/s
95th percentile per-packet one-way delay: 220.451 ms
Loss rate: 0.20%
-- Flow 3:
Average throughput: 33.07 Mbit/s
95th percentile per-packet one-way delay: 175.055 ms
Loss rate: 0.31%
```


Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2017-11-30 23:49:16

End at: 2017-11-30 23:49:46

Below is generated by plot.py at 2017-12-01 01:43:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 487.70 Mbit/s

95th percentile per-packet one-way delay: 254.722 ms

Loss rate: 2.91%

-- Flow 1:

Average throughput: 464.19 Mbit/s

95th percentile per-packet one-way delay: 254.614 ms

Loss rate: 2.86%

-- Flow 2:

Average throughput: 4.25 Mbit/s

95th percentile per-packet one-way delay: 253.273 ms

Loss rate: 2.35%

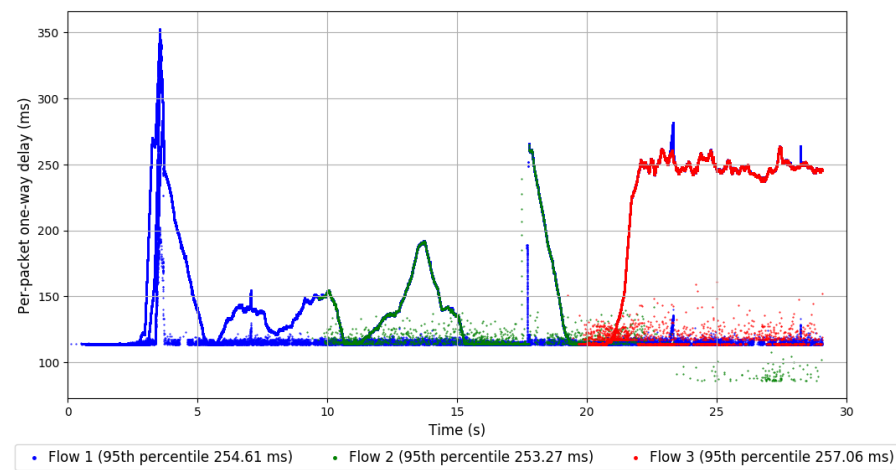
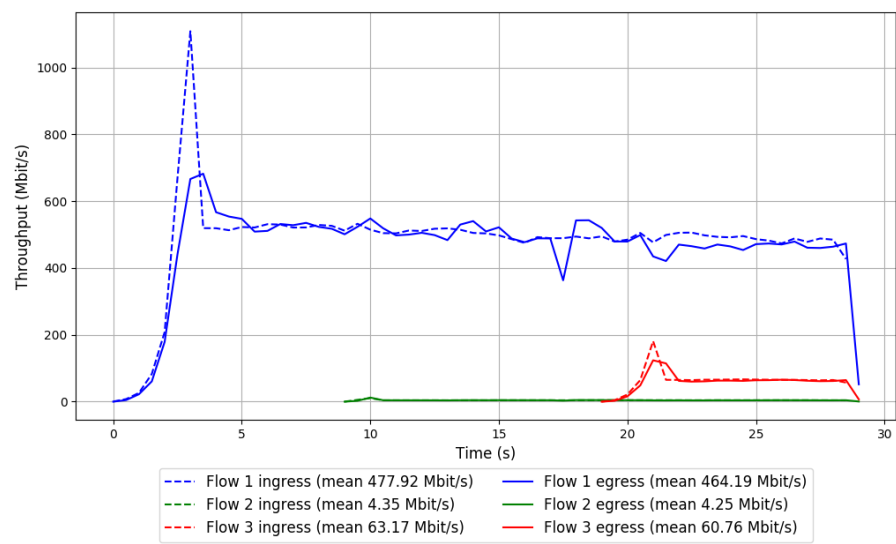
-- Flow 3:

Average throughput: 60.76 Mbit/s

95th percentile per-packet one-way delay: 257.061 ms

Loss rate: 4.12%

Run 8: Report of PCC — Data Link

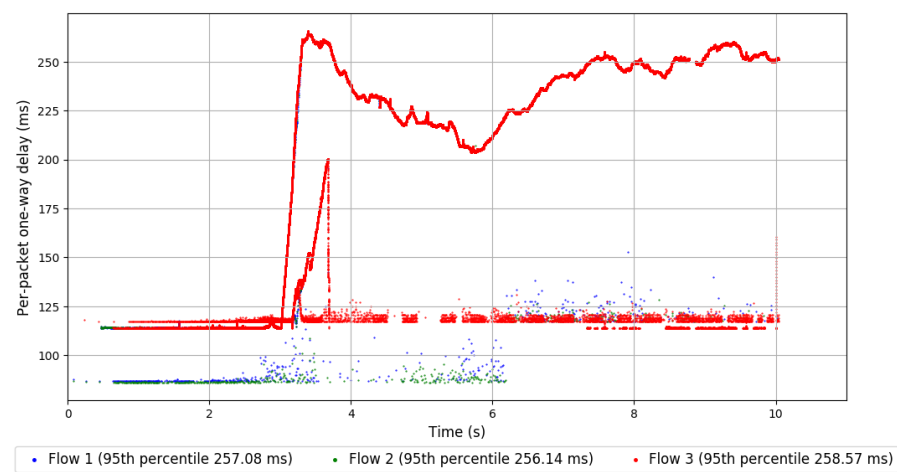
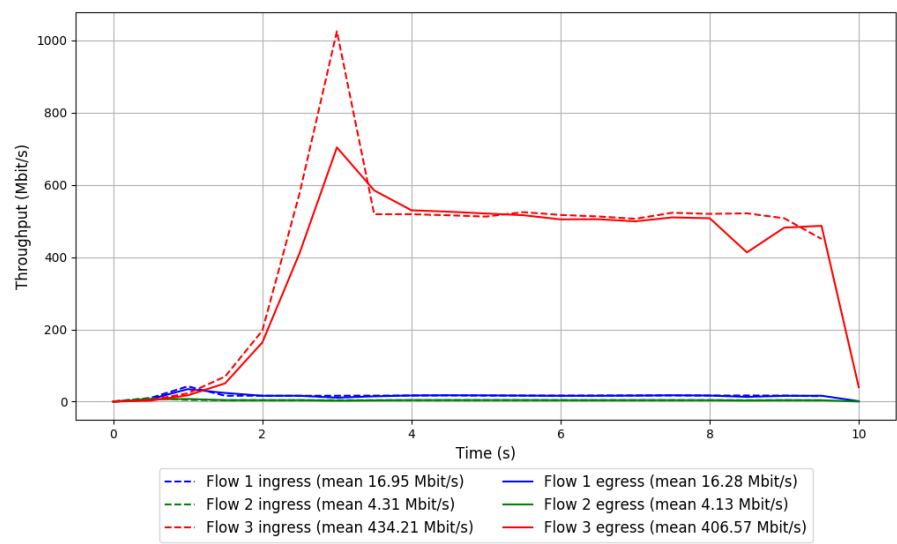


Run 9: Statistics of PCC

Start at: 2017-12-01 00:01:35

End at: 2017-12-01 00:02:05

Run 9: Report of PCC — Data Link

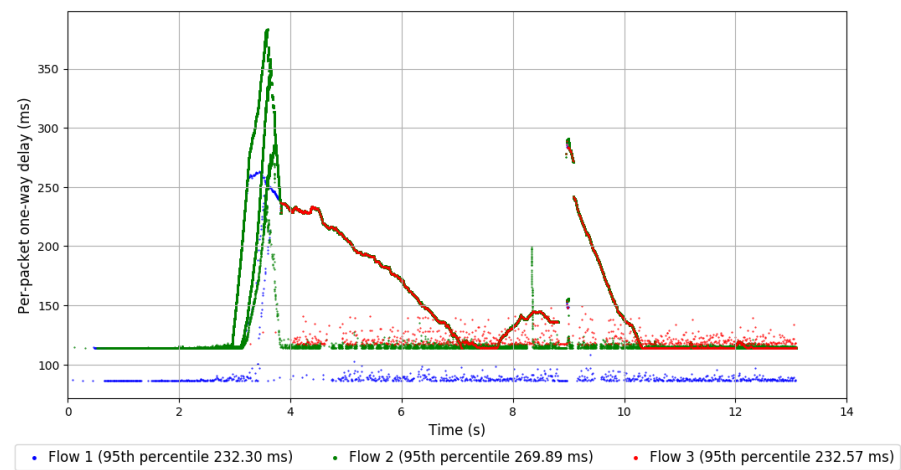
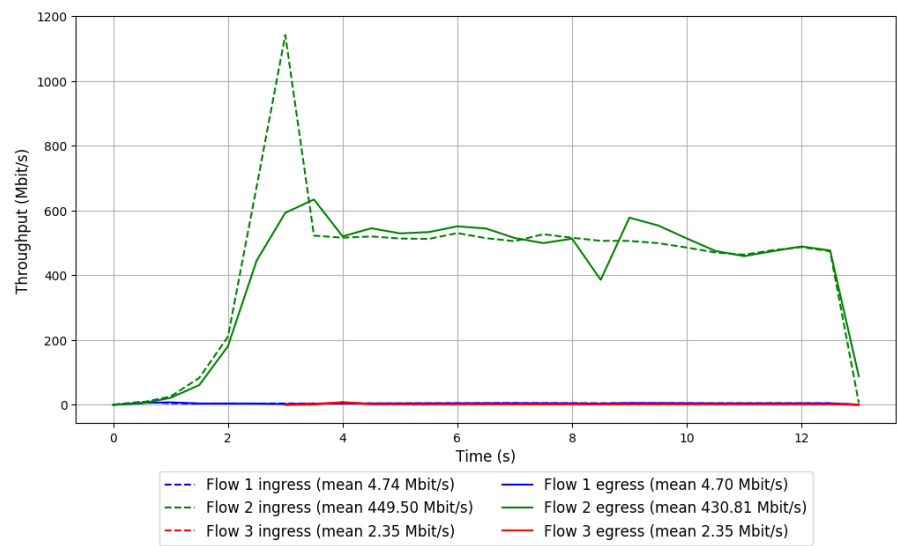


Run 10: Statistics of PCC

Start at: 2017-12-01 00:14:09

End at: 2017-12-01 00:14:39

Run 10: Report of PCC — Data Link

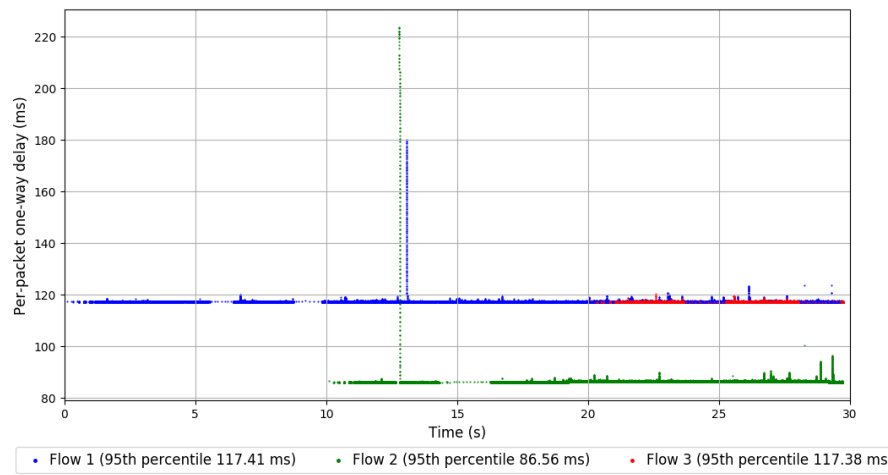
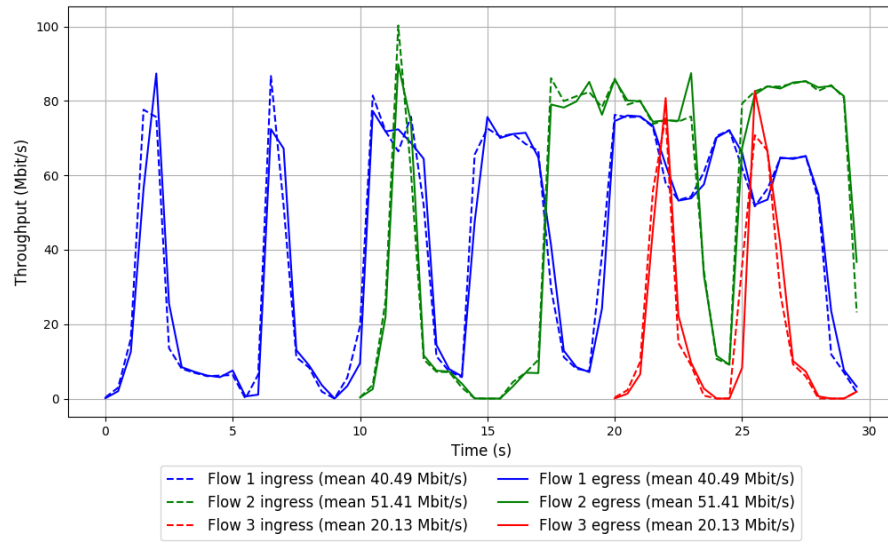


```
Run 1: Statistics of QUIC Cubic

Start at: 2017-11-30 22:27:51
End at: 2017-11-30 22:28:21

# Below is generated by plot.py at 2017-12-01 01:44:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 81.04 Mbit/s
95th percentile per-packet one-way delay: 117.361 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 40.49 Mbit/s
95th percentile per-packet one-way delay: 117.411 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 51.41 Mbit/s
95th percentile per-packet one-way delay: 86.555 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 20.13 Mbit/s
95th percentile per-packet one-way delay: 117.381 ms
Loss rate: 0.00%
```


Run 1: Report of QUIC Cubic — Data Link

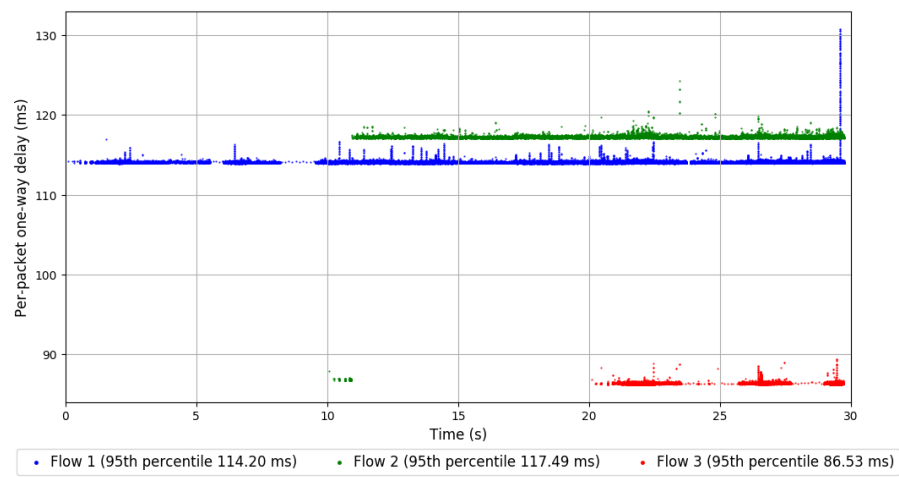
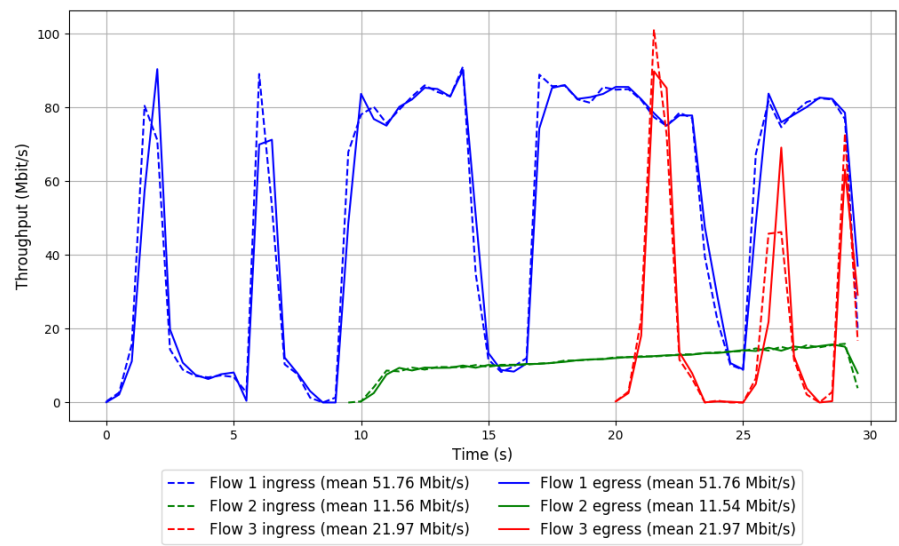


```
Run 2: Statistics of QUIC Cubic

Start at: 2017-11-30 22:40:29
End at: 2017-11-30 22:40:59

# Below is generated by plot.py at 2017-12-01 01:44:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 66.56 Mbit/s
95th percentile per-packet one-way delay: 117.218 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 51.76 Mbit/s
95th percentile per-packet one-way delay: 114.197 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 11.54 Mbit/s
95th percentile per-packet one-way delay: 117.492 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 21.97 Mbit/s
95th percentile per-packet one-way delay: 86.534 ms
Loss rate: 0.00%
```

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2017-11-30 22:53:34

End at: 2017-11-30 22:54:04

Below is generated by plot.py at 2017-12-01 01:44:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.93 Mbit/s

95th percentile per-packet one-way delay: 117.206 ms

Loss rate: 0.18%

-- Flow 1:

Average throughput: 58.54 Mbit/s

95th percentile per-packet one-way delay: 117.224 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 35.97 Mbit/s

95th percentile per-packet one-way delay: 114.039 ms

Loss rate: 0.68%

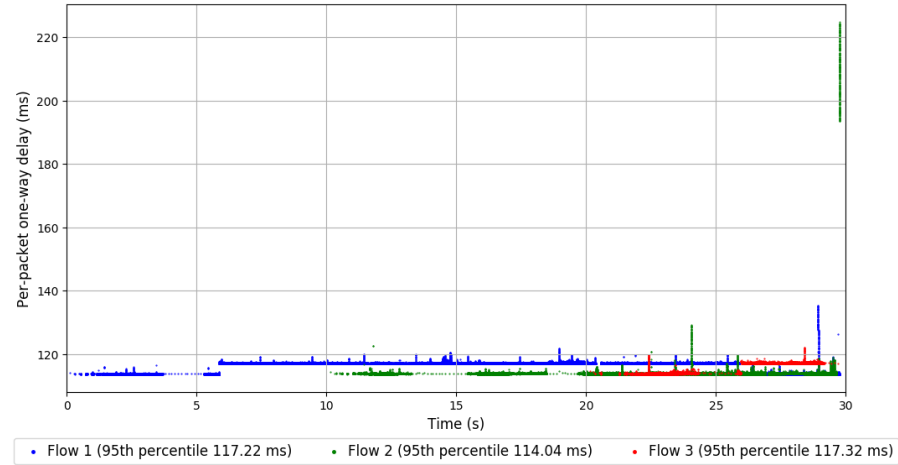
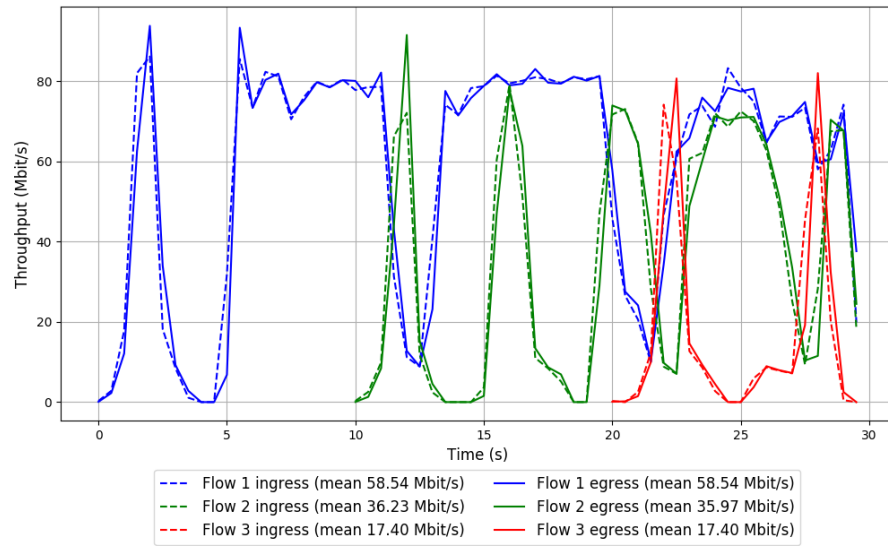
-- Flow 3:

Average throughput: 17.40 Mbit/s

95th percentile per-packet one-way delay: 117.324 ms

Loss rate: 0.00%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2017-11-30 23:06:32

End at: 2017-11-30 23:07:02

Below is generated by plot.py at 2017-12-01 01:44:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.66 Mbit/s

95th percentile per-packet one-way delay: 117.328 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 52.45 Mbit/s

95th percentile per-packet one-way delay: 117.316 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 47.62 Mbit/s

95th percentile per-packet one-way delay: 117.360 ms

Loss rate: 0.00%

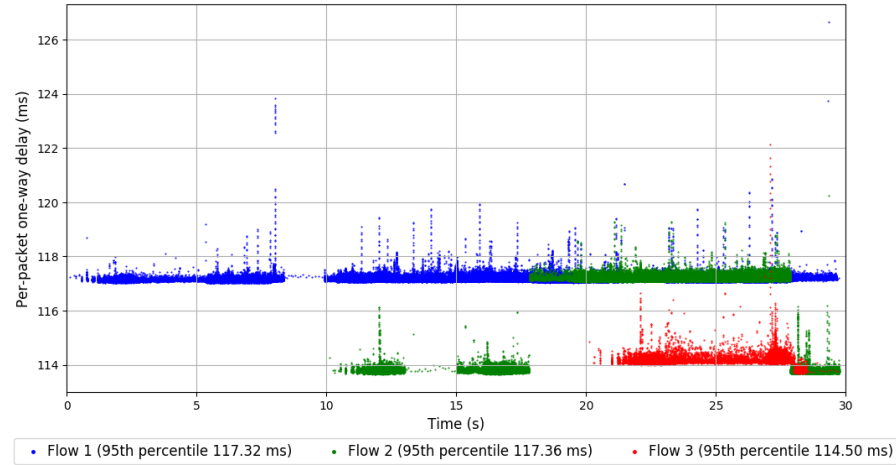
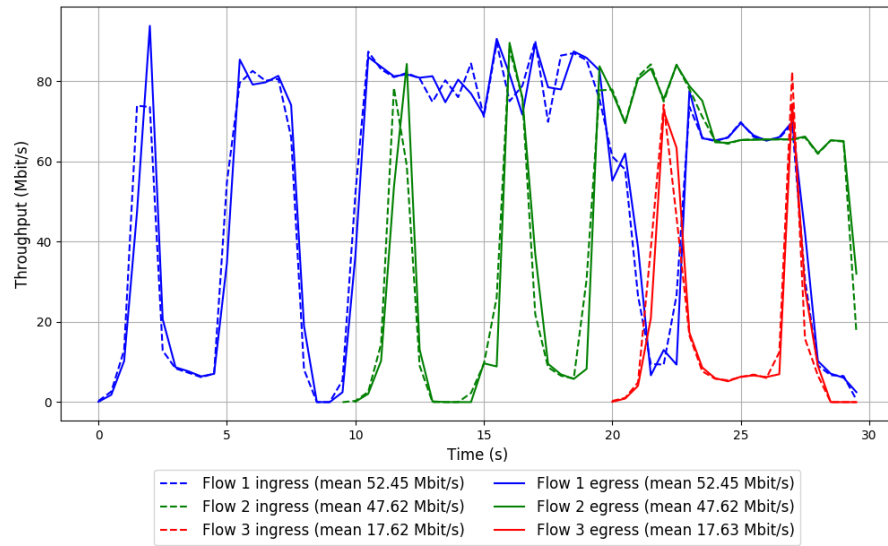
-- Flow 3:

Average throughput: 17.63 Mbit/s

95th percentile per-packet one-way delay: 114.496 ms

Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2017-11-30 23:19:20

End at: 2017-11-30 23:19:50

Below is generated by plot.py at 2017-12-01 01:44:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 79.03 Mbit/s

95th percentile per-packet one-way delay: 114.248 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 48.37 Mbit/s

95th percentile per-packet one-way delay: 86.555 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 43.60 Mbit/s

95th percentile per-packet one-way delay: 114.278 ms

Loss rate: 0.20%

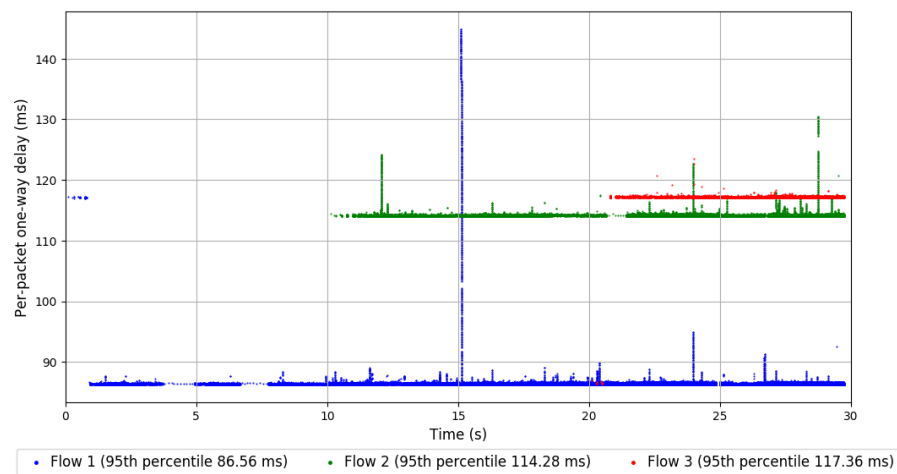
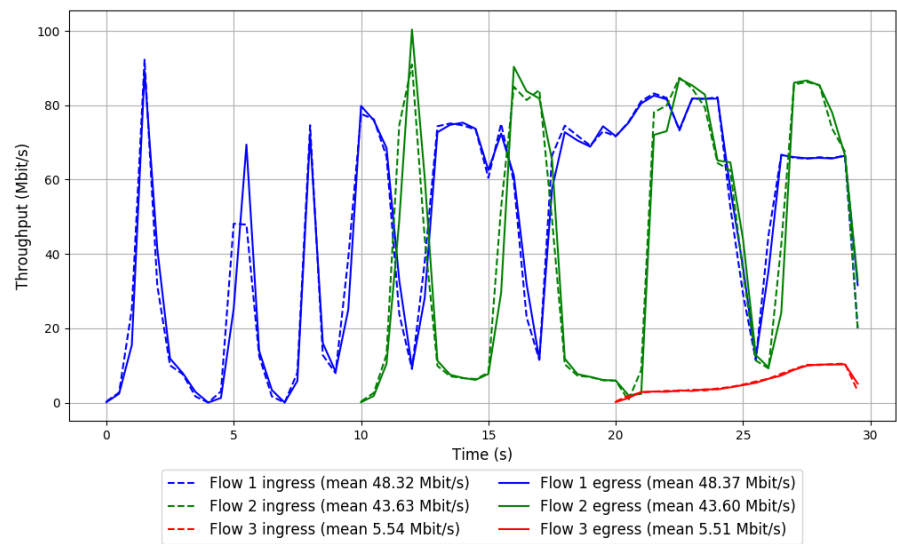
-- Flow 3:

Average throughput: 5.51 Mbit/s

95th percentile per-packet one-way delay: 117.359 ms

Loss rate: 0.59%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2017-11-30 23:31:34

End at: 2017-11-30 23:32:04

Below is generated by plot.py at 2017-12-01 01:44:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 70.39 Mbit/s

95th percentile per-packet one-way delay: 117.274 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 55.40 Mbit/s

95th percentile per-packet one-way delay: 117.296 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 9.62 Mbit/s

95th percentile per-packet one-way delay: 114.252 ms

Loss rate: 0.00%

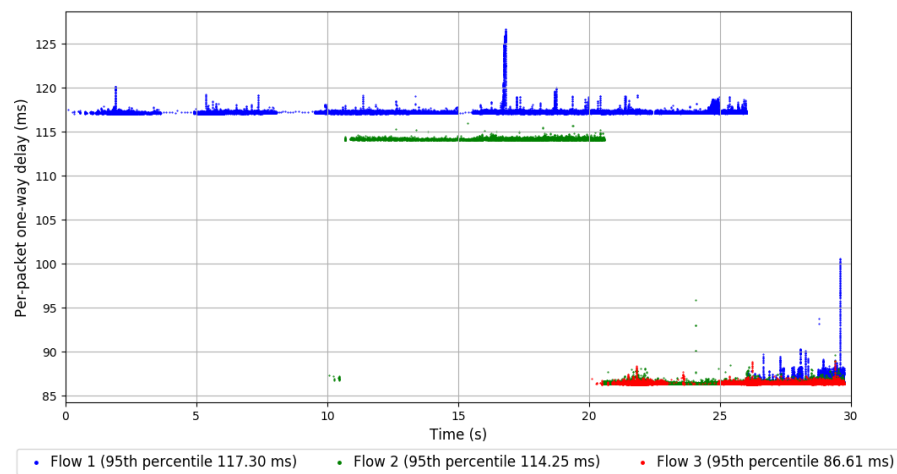
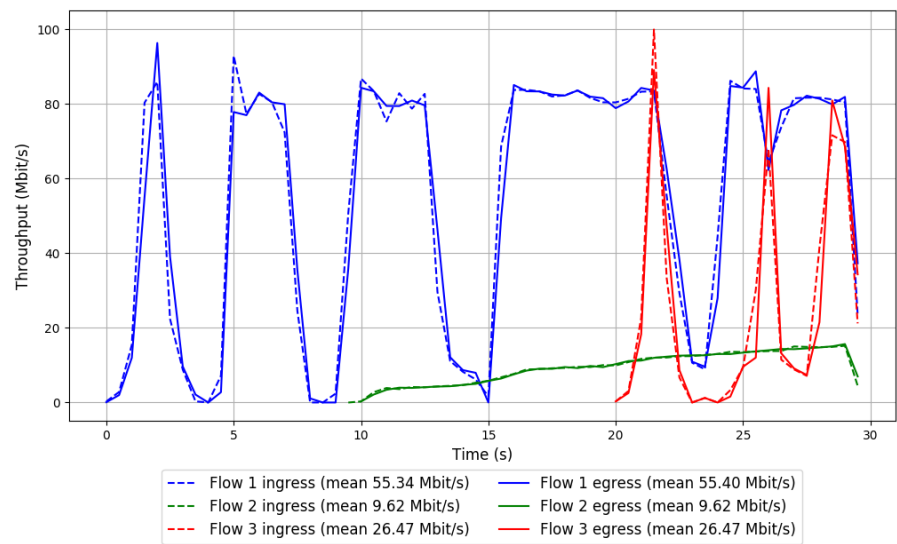
-- Flow 3:

Average throughput: 26.47 Mbit/s

95th percentile per-packet one-way delay: 86.611 ms

Loss rate: 0.00%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2017-11-30 23:44:09

End at: 2017-11-30 23:44:39

Below is generated by plot.py at 2017-12-01 01:44:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 106.85 Mbit/s

95th percentile per-packet one-way delay: 117.199 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 66.30 Mbit/s

95th percentile per-packet one-way delay: 117.245 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 51.48 Mbit/s

95th percentile per-packet one-way delay: 86.690 ms

Loss rate: 0.00%

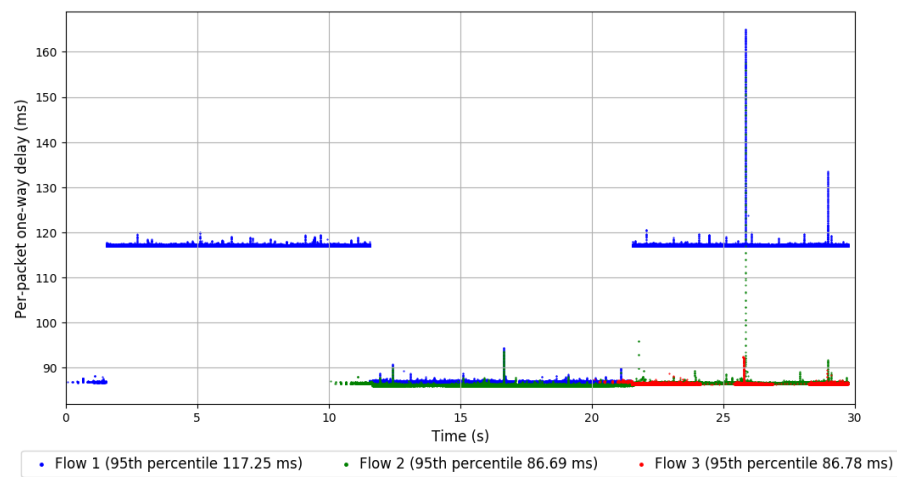
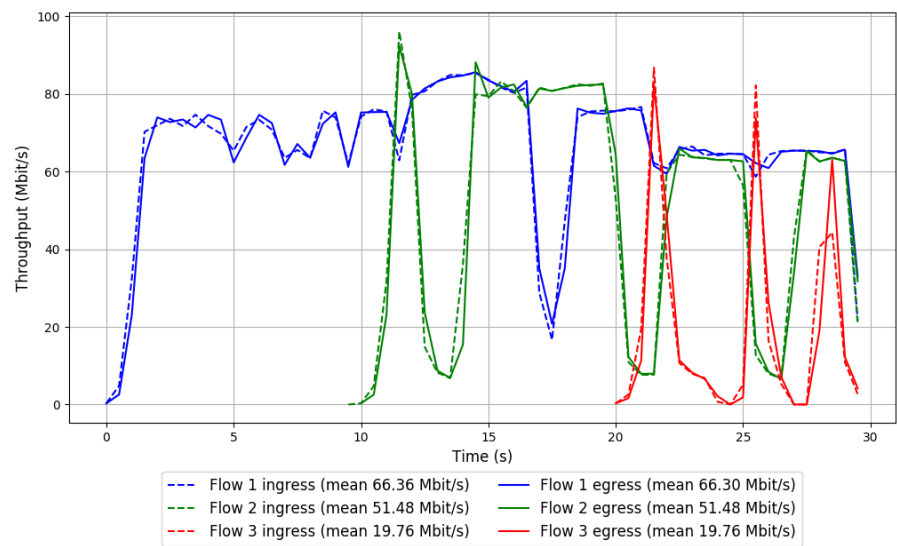
-- Flow 3:

Average throughput: 19.76 Mbit/s

95th percentile per-packet one-way delay: 86.781 ms

Loss rate: 0.00%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2017-11-30 23:56:32

End at: 2017-11-30 23:57:02

Below is generated by plot.py at 2017-12-01 01:45:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 83.24 Mbit/s

95th percentile per-packet one-way delay: 114.183 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 51.70 Mbit/s

95th percentile per-packet one-way delay: 114.220 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 35.70 Mbit/s

95th percentile per-packet one-way delay: 113.998 ms

Loss rate: 0.00%

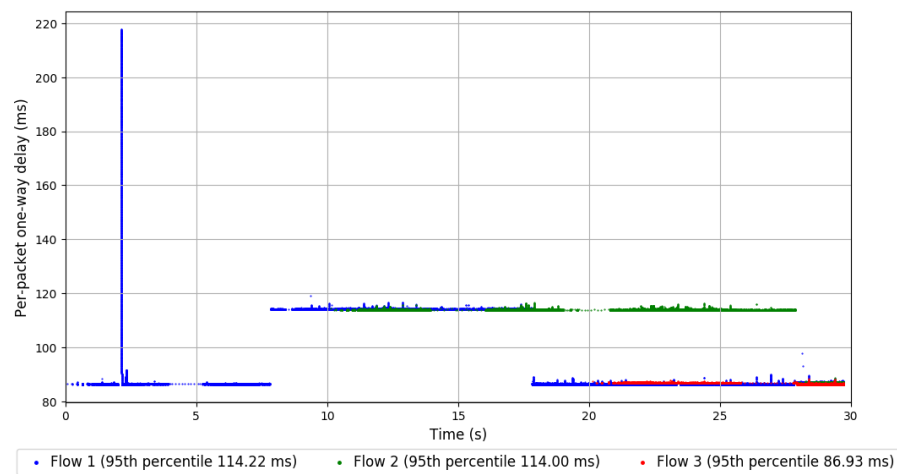
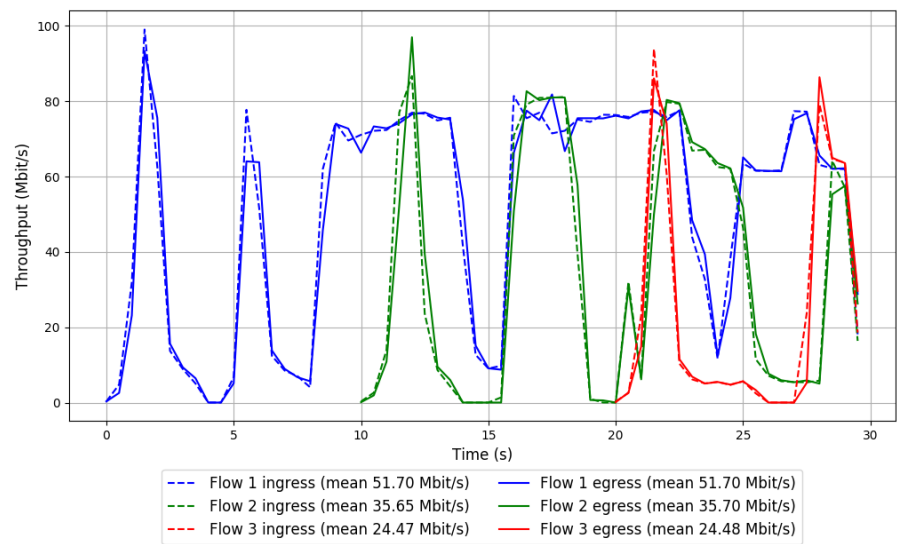
-- Flow 3:

Average throughput: 24.48 Mbit/s

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

Loss rate: 0.00%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2017-12-01 00:09:06

End at: 2017-12-01 00:09:36

Below is generated by plot.py at 2017-12-01 01:45:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 75.90 Mbit/s

95th percentile per-packet one-way delay: 117.270 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 47.09 Mbit/s

95th percentile per-packet one-way delay: 117.287 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 33.42 Mbit/s

95th percentile per-packet one-way delay: 86.576 ms

Loss rate: 0.00%

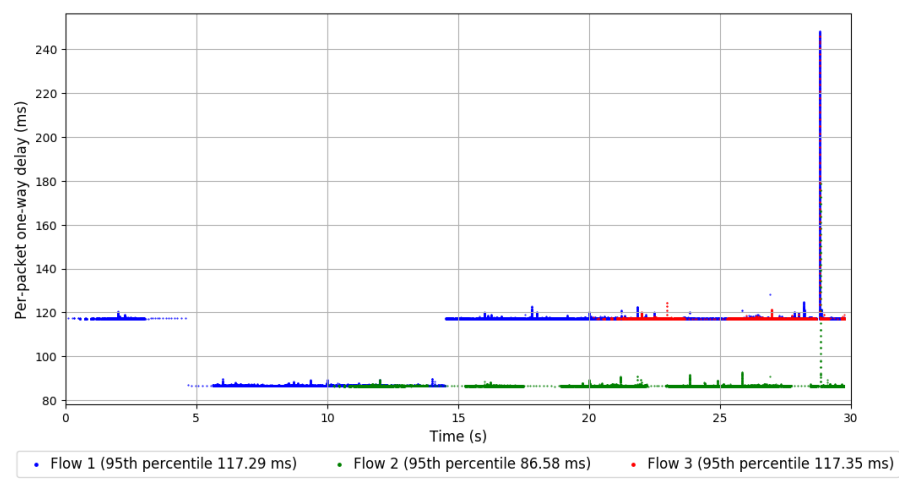
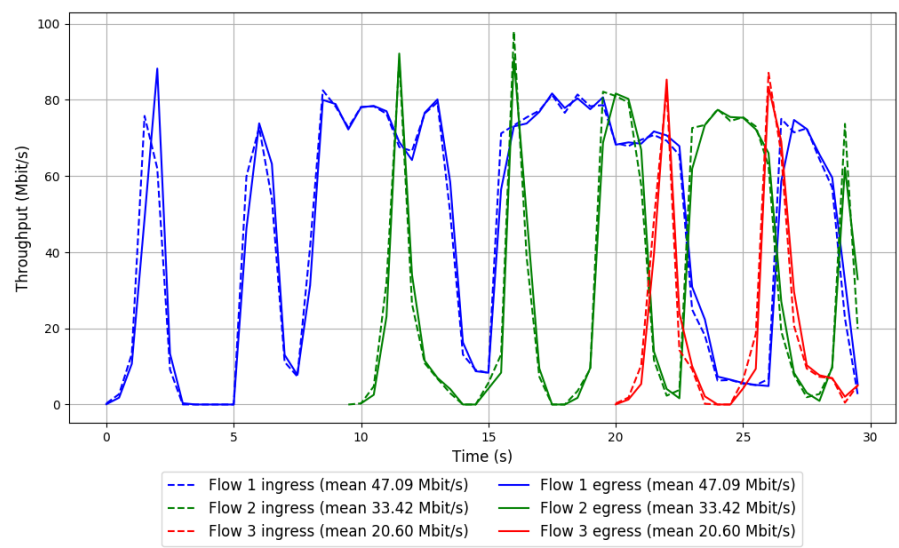
-- Flow 3:

Average throughput: 20.60 Mbit/s

95th percentile per-packet one-way delay: 117.353 ms

Loss rate: 0.00%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2017-12-01 00:21:46

End at: 2017-12-01 00:22:16

Below is generated by plot.py at 2017-12-01 01:45:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.14 Mbit/s

95th percentile per-packet one-way delay: 114.235 ms

Loss rate: 0.11%

-- Flow 1:

Average throughput: 52.64 Mbit/s

95th percentile per-packet one-way delay: 114.226 ms

Loss rate: 0.12%

-- Flow 2:

Average throughput: 36.06 Mbit/s

95th percentile per-packet one-way delay: 87.409 ms

Loss rate: 0.00%

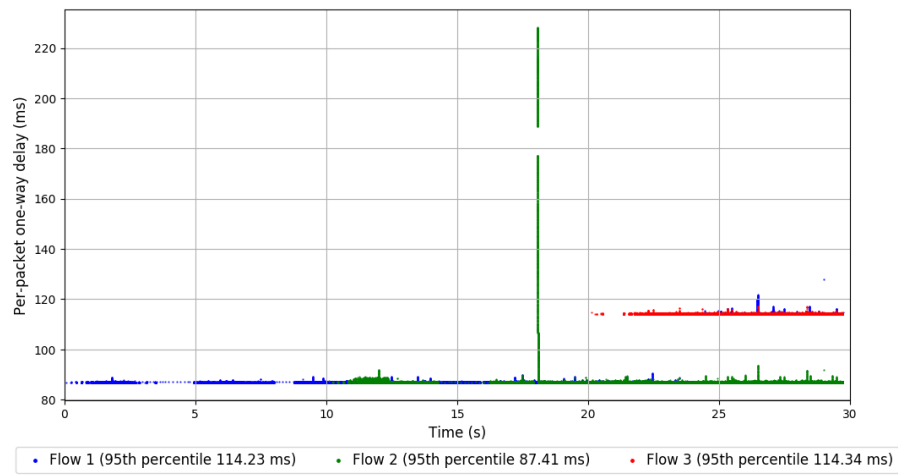
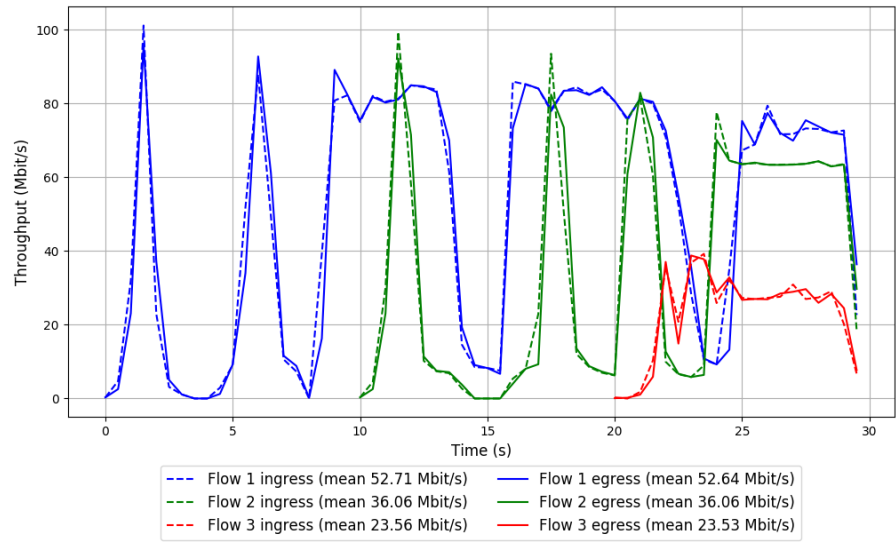
-- Flow 3:

Average throughput: 23.53 Mbit/s

95th percentile per-packet one-way delay: 114.344 ms

Loss rate: 0.41%

Run 10: Report of QUIC Cubic — Data Link

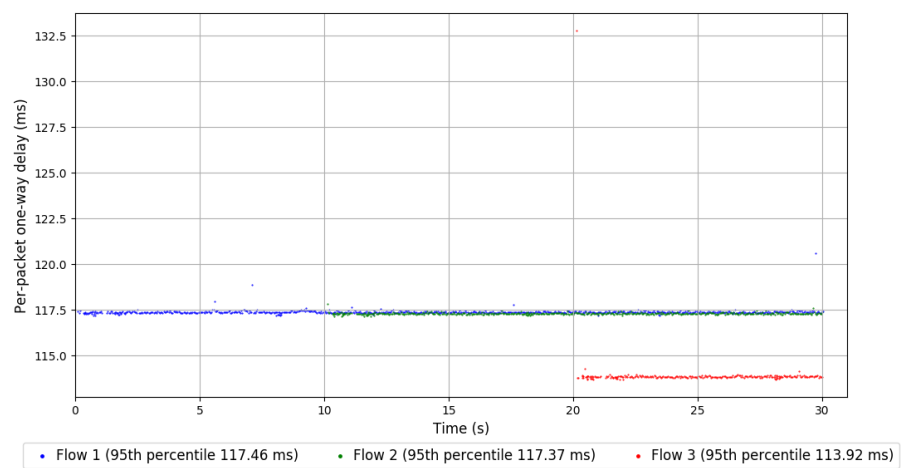
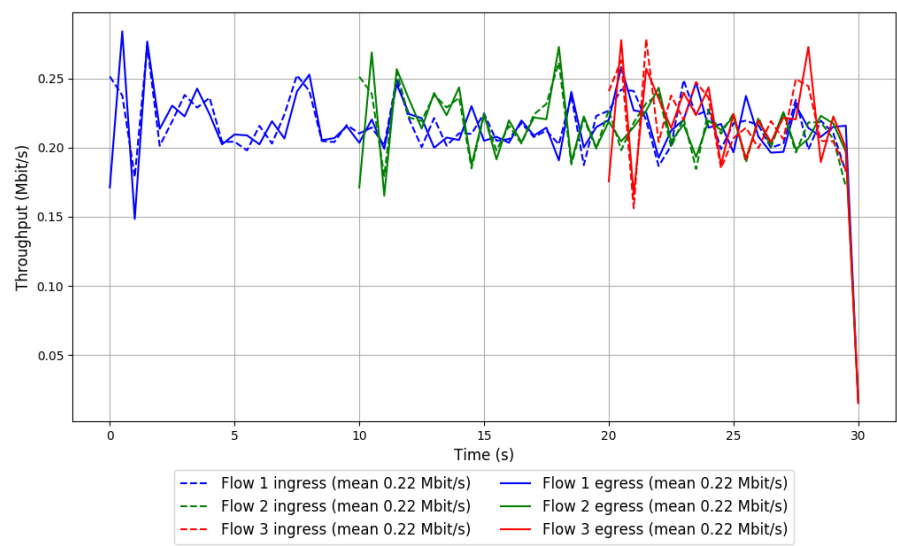


```
Run 1: Statistics of SCReAM

Start at: 2017-11-30 22:22:18
End at: 2017-11-30 22:22:48

# Below is generated by plot.py at 2017-12-01 01:45:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 117.435 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 117.460 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 117.370 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 113.920 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

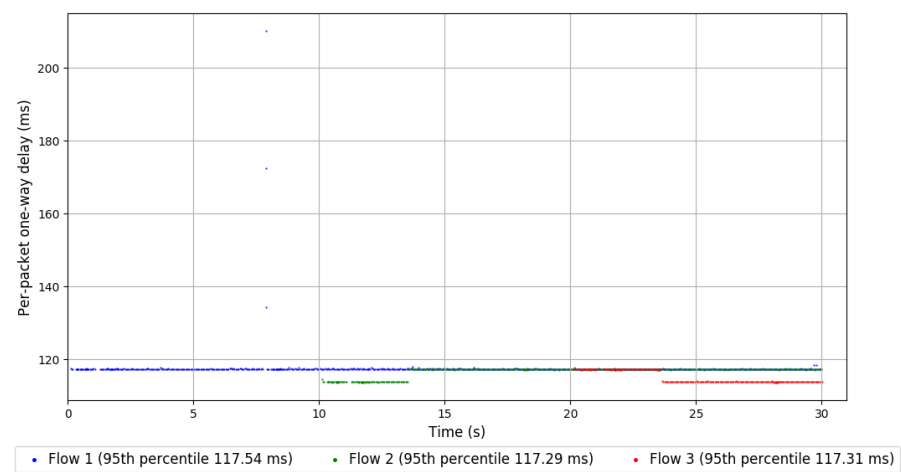
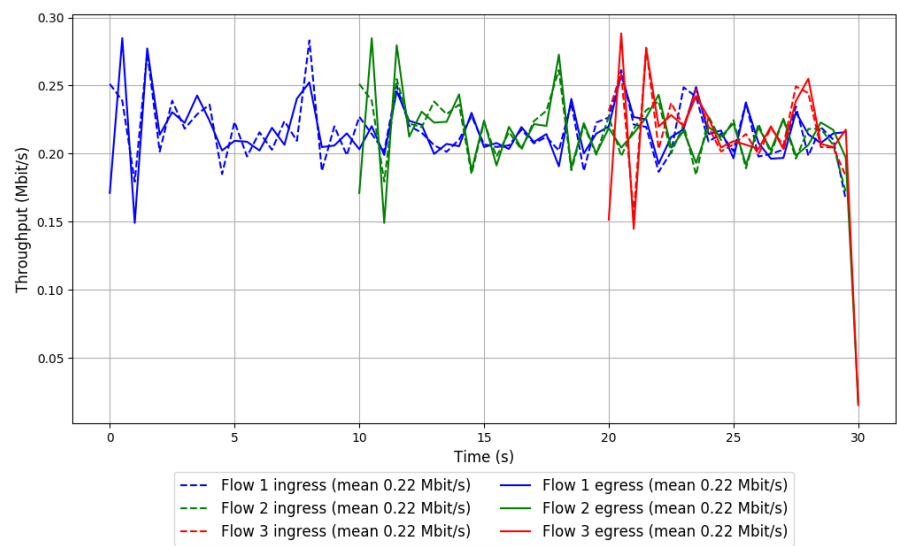


```
Run 2: Statistics of SCReAM

Start at: 2017-11-30 22:34:57
End at: 2017-11-30 22:35:27

# Below is generated by plot.py at 2017-12-01 01:45:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 117.443 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 117.540 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 117.289 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 117.312 ms
Loss rate: 0.00%
```

Run 2: Report of SReAM — Data Link

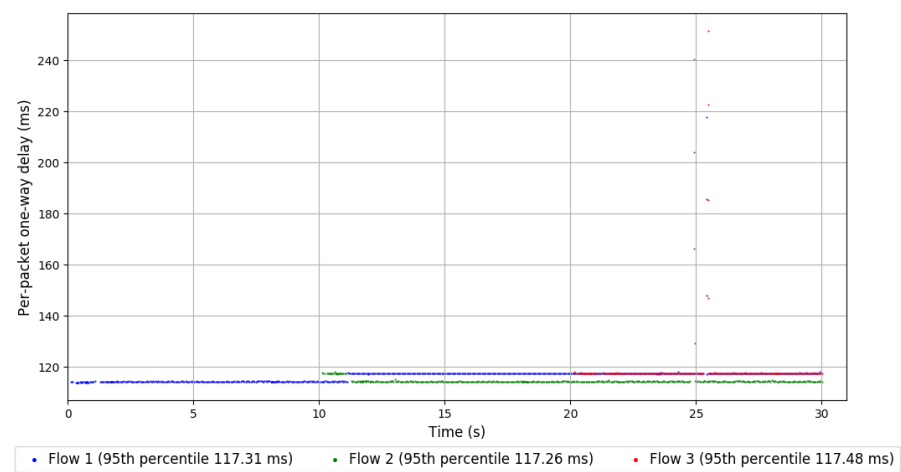
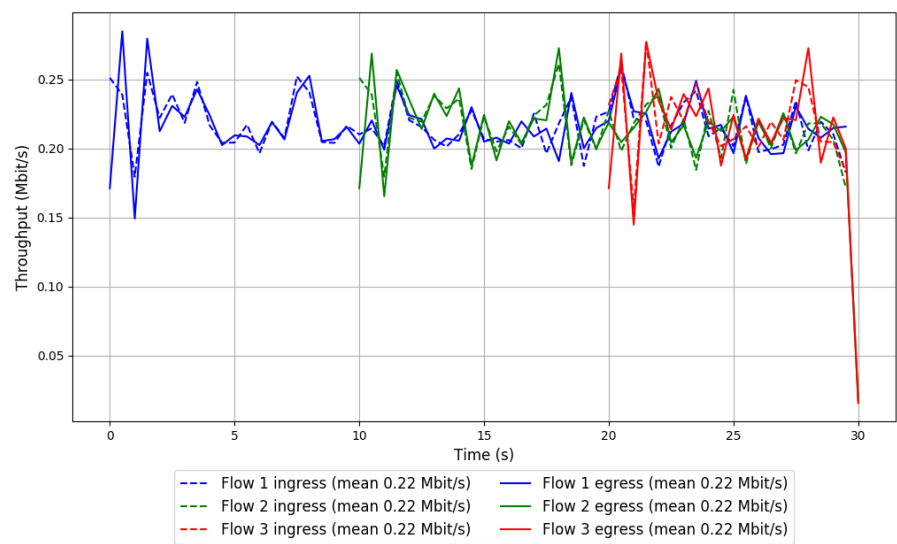


```
Run 3: Statistics of SReAM

Start at: 2017-11-30 22:47:39
End at: 2017-11-30 22:48:09

# Below is generated by plot.py at 2017-12-01 01:45:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 117.389 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 117.309 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 117.260 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 117.483 ms
Loss rate: 0.00%
```


Run 3: Report of SCReAM — Data Link

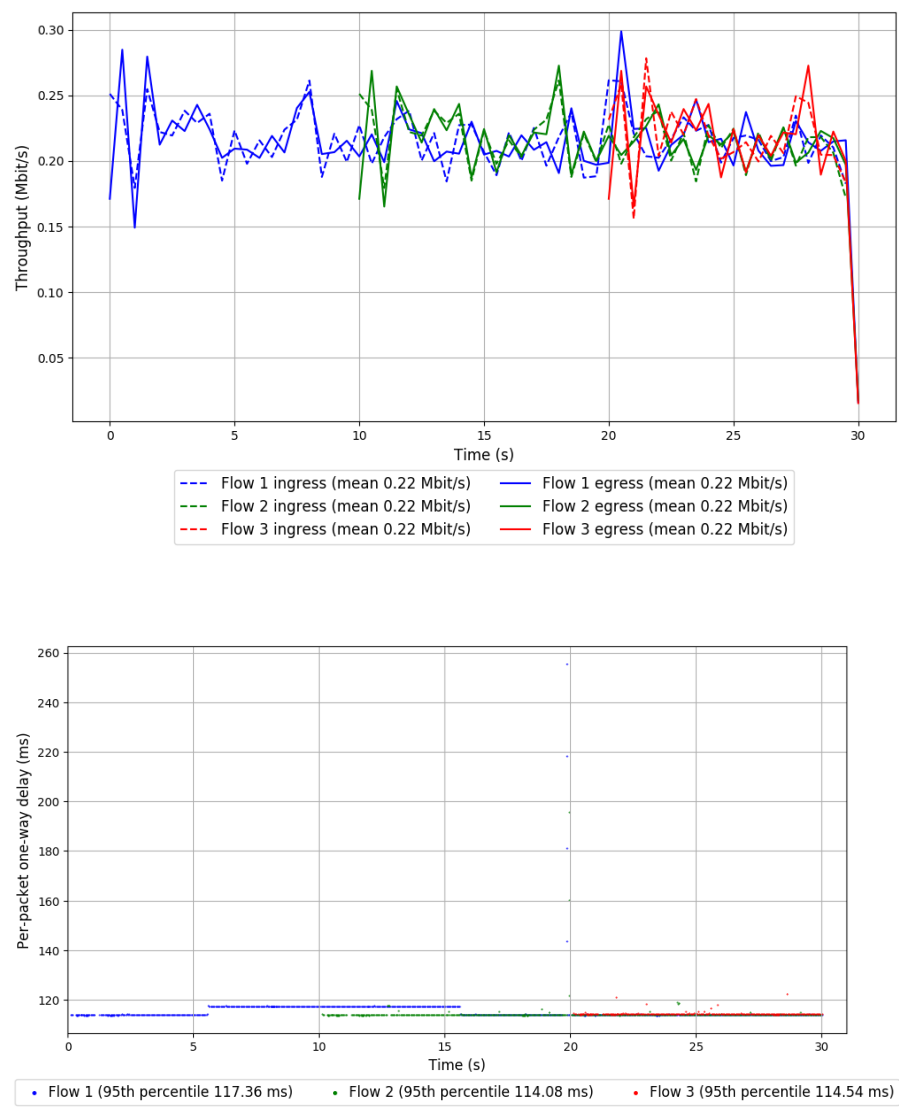


```
Run 4: Statistics of SCReAM

Start at: 2017-11-30 23:00:45
End at: 2017-11-30 23:01:15

# Below is generated by plot.py at 2017-12-01 01:45:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 117.340 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 117.359 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 114.085 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 114.543 ms
Loss rate: 0.00%
```

Run 4: Report of SReAM — Data Link

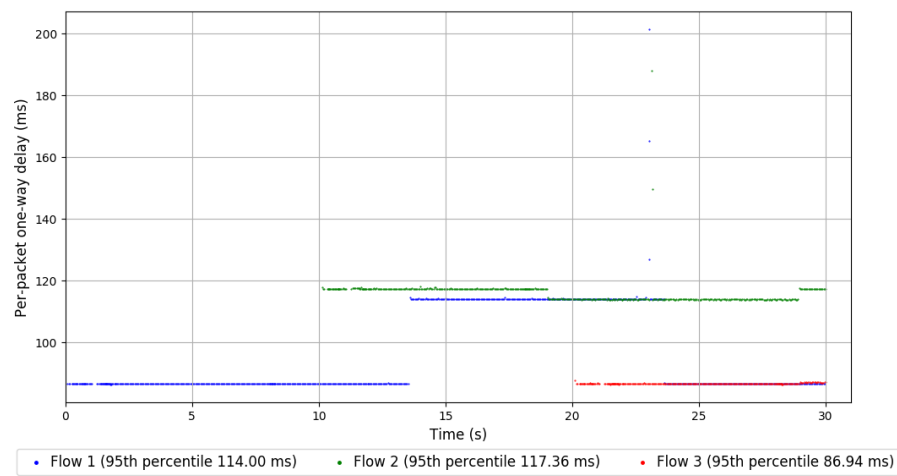
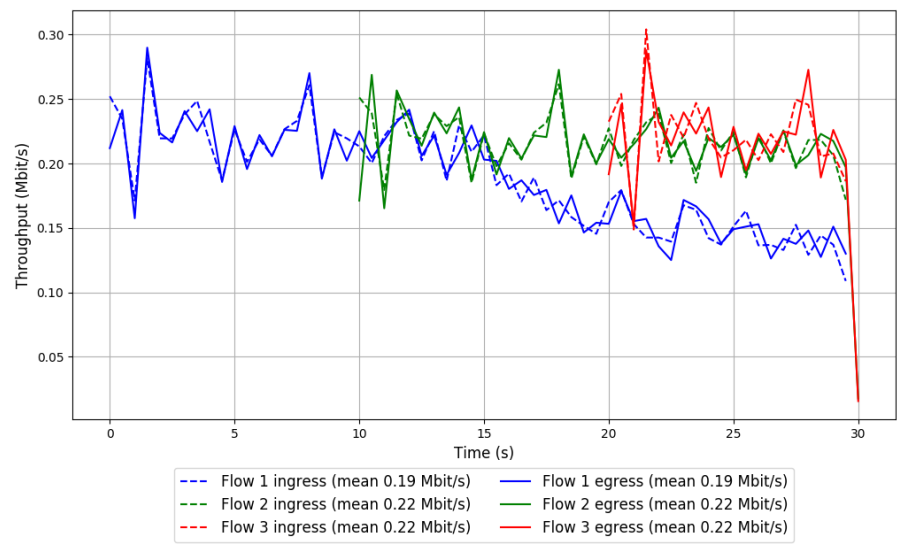


```
Run 5: Statistics of SCReAM

Start at: 2017-11-30 23:13:42
End at: 2017-11-30 23:14:12

# Below is generated by plot.py at 2017-12-01 01:45:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.41 Mbit/s
95th percentile per-packet one-way delay: 117.299 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 114.002 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 117.364 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.943 ms
Loss rate: 0.00%
```

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2017-11-30 23:26:04

End at: 2017-11-30 23:26:34

Below is generated by plot.py at 2017-12-01 01:45:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 117.338 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 117.322 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 117.360 ms

Loss rate: 0.15%

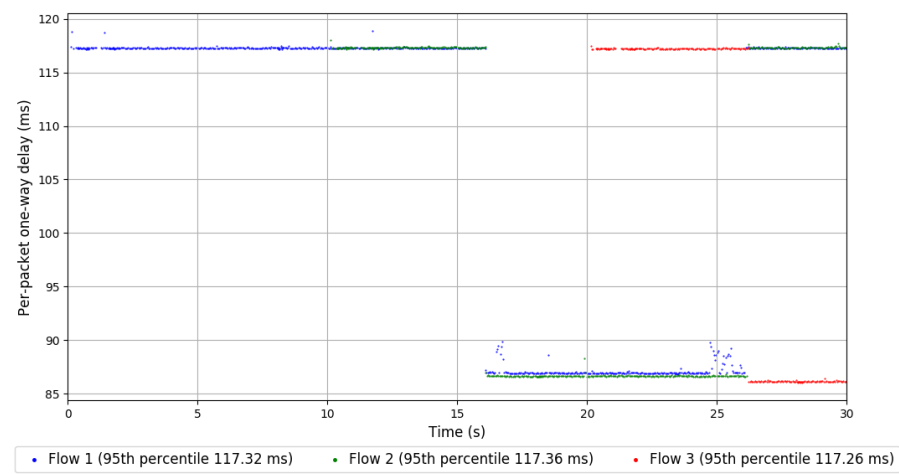
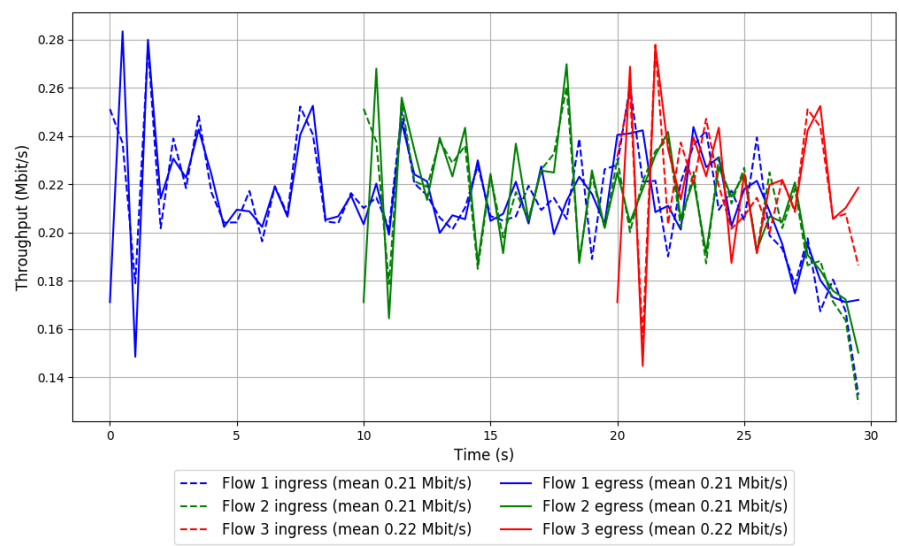
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 117.257 ms

Loss rate: 0.00%

Run 6: Report of SReAM — Data Link

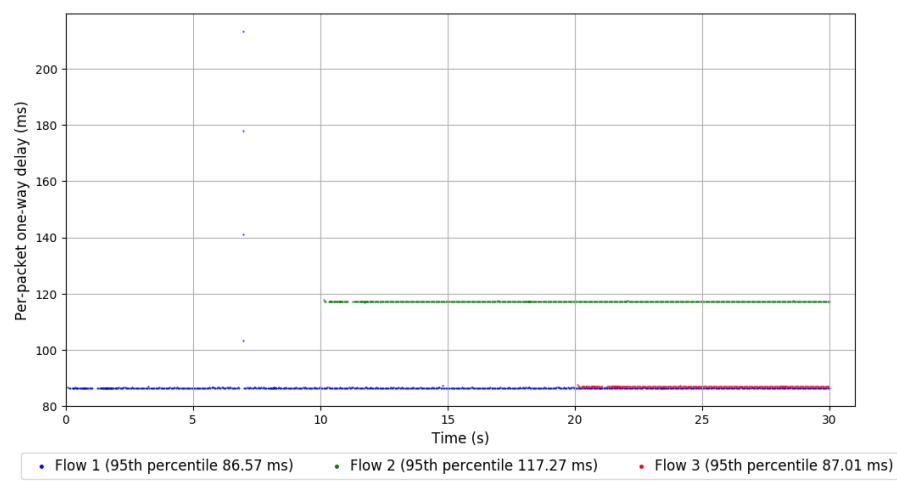
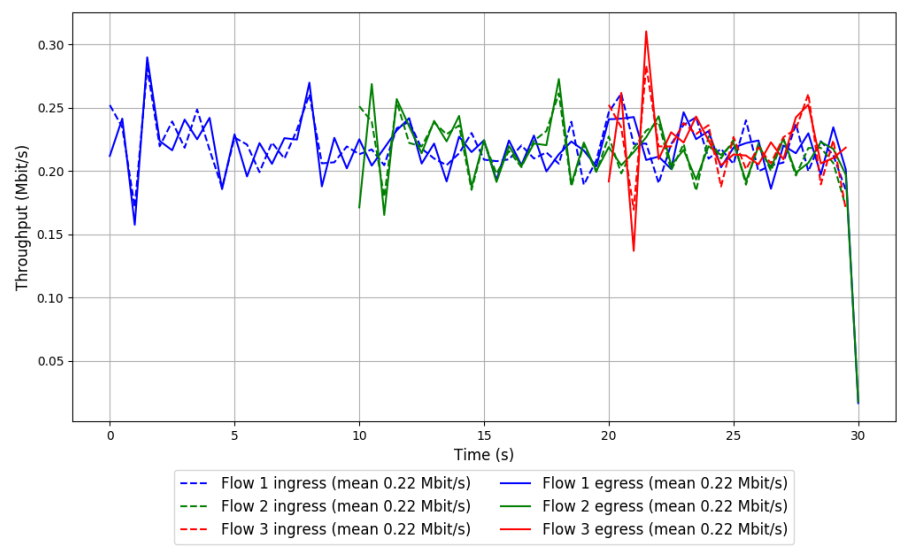


```
Run 7: Statistics of SReAM

Start at: 2017-11-30 23:38:28
End at: 2017-11-30 23:38:58

# Below is generated by plot.py at 2017-12-01 01:45:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 117.249 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.574 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 117.274 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 87.013 ms
Loss rate: 0.00%
```


Run 7: Report of SReAM — Data Link

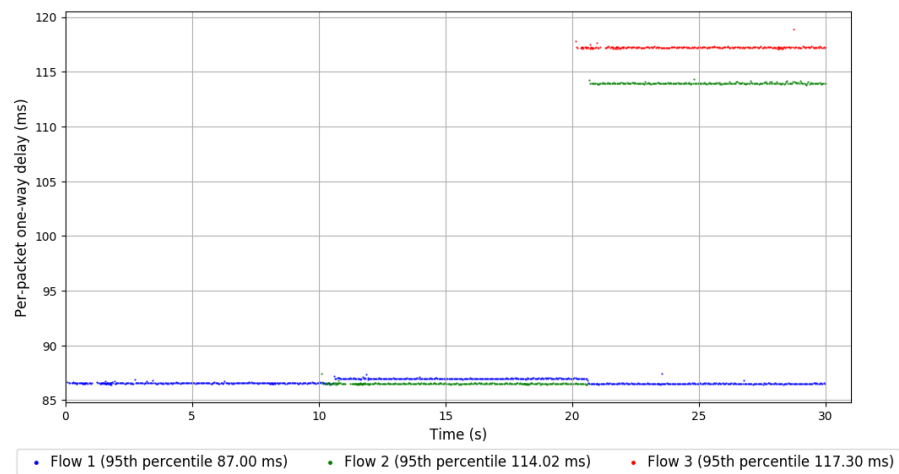
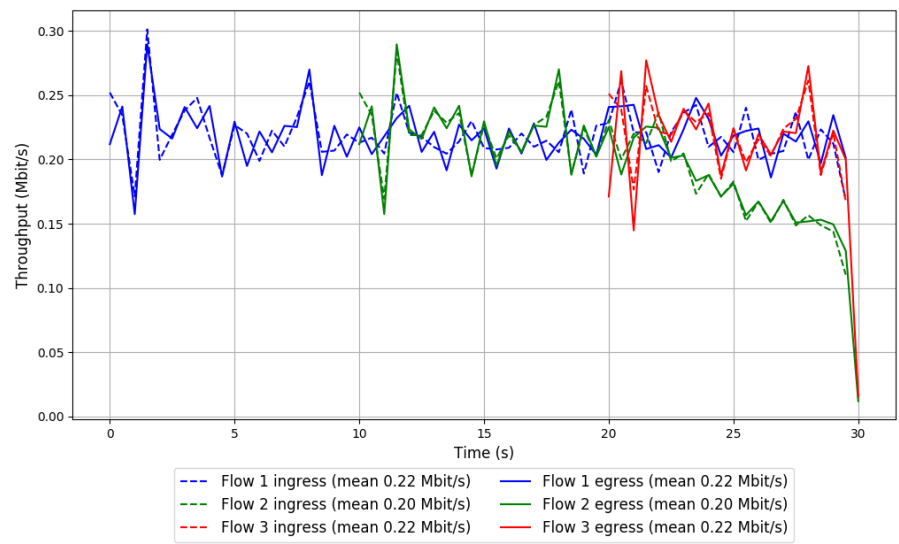


```
Run 8: Statistics of SCReAM

Start at: 2017-11-30 23:51:10
End at: 2017-11-30 23:51:40

# Below is generated by plot.py at 2017-12-01 01:45:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 117.246 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 87.003 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.20 Mbit/s
95th percentile per-packet one-way delay: 114.018 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 117.300 ms
Loss rate: 0.00%
```

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2017-12-01 00:03:15

End at: 2017-12-01 00:03:45

Below is generated by plot.py at 2017-12-01 01:45:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 117.385 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.16 Mbit/s

95th percentile per-packet one-way delay: 117.400 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 114.376 ms

Loss rate: 0.00%

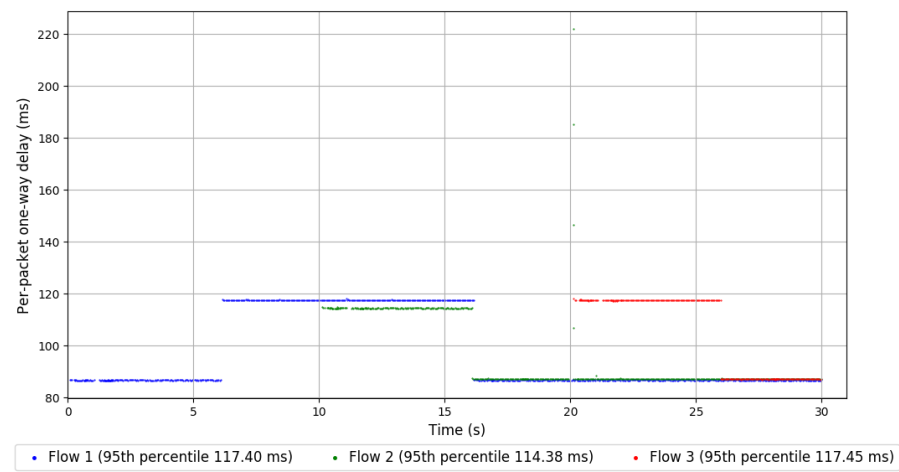
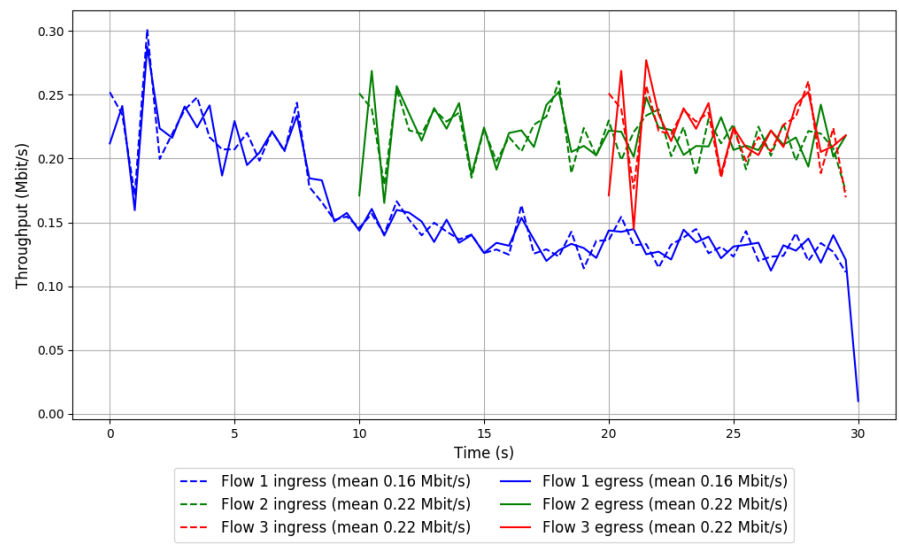
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 117.450 ms

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link

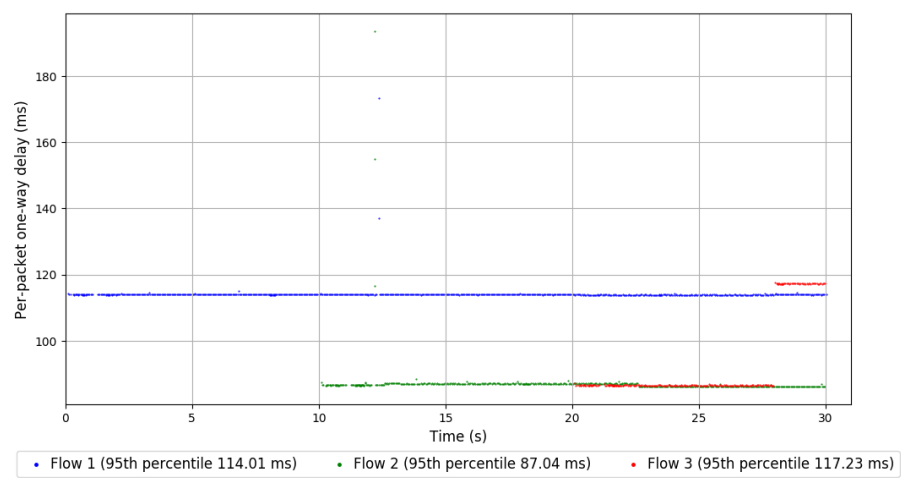
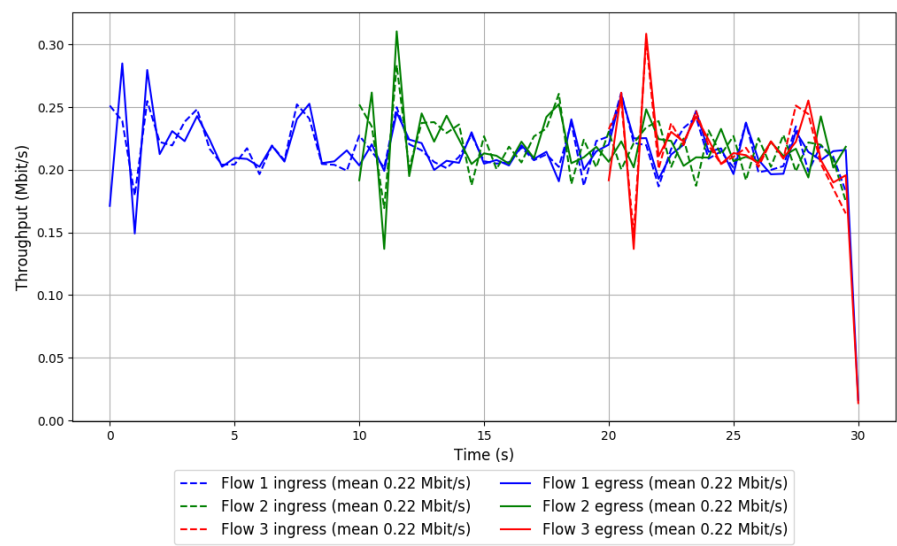


```
Run 10: Statistics of SReAM

Start at: 2017-12-01 00:15:53
End at: 2017-12-01 00:16:23

# Below is generated by plot.py at 2017-12-01 01:45:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 114.056 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 114.006 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 87.038 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 117.231 ms
Loss rate: 0.00%
```

Run 10: Report of SReAM — Data Link

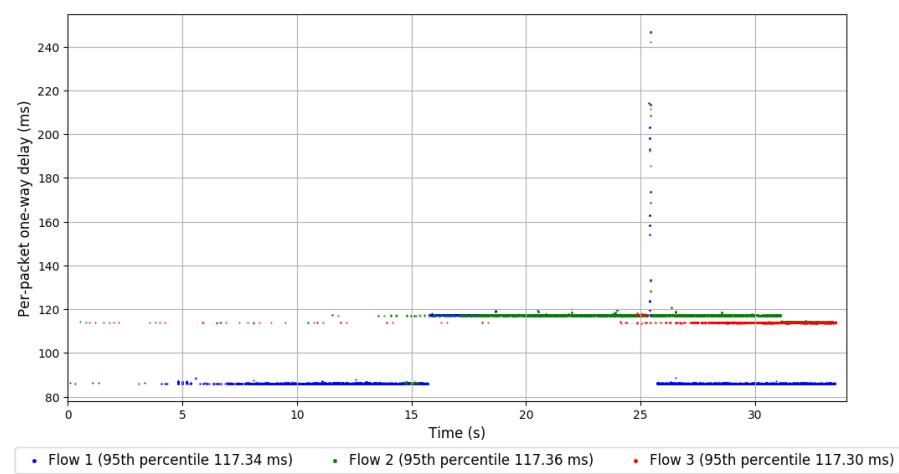
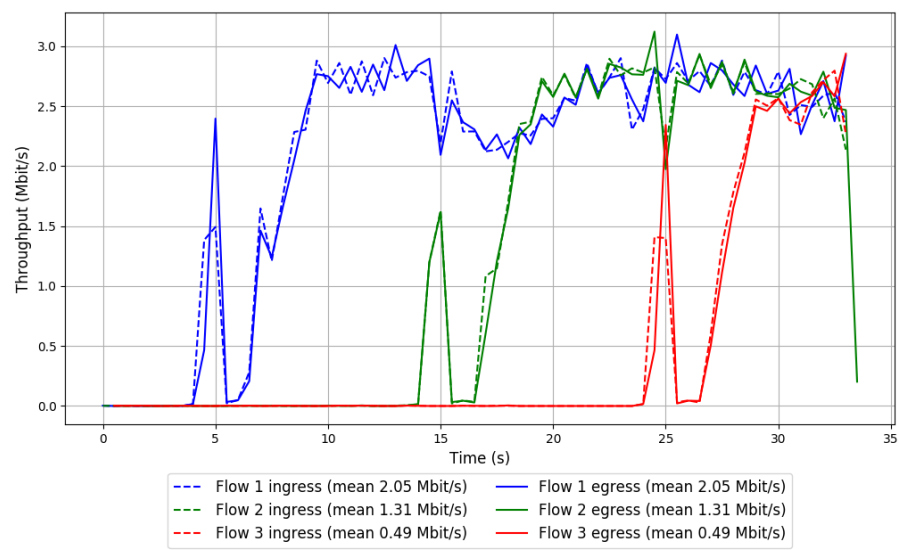


```
Run 1: Statistics of WebRTC media

Start at: 2017-11-30 22:30:13
End at: 2017-11-30 22:30:43

# Below is generated by plot.py at 2017-12-01 01:45:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.82 Mbit/s
95th percentile per-packet one-way delay: 117.344 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.05 Mbit/s
95th percentile per-packet one-way delay: 117.341 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.31 Mbit/s
95th percentile per-packet one-way delay: 117.362 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.49 Mbit/s
95th percentile per-packet one-way delay: 117.297 ms
Loss rate: 0.00%
```


Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2017-11-30 22:42:51

End at: 2017-11-30 22:43:21

Below is generated by plot.py at 2017-12-01 01:45:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.87 Mbit/s

95th percentile per-packet one-way delay: 117.290 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 87.034 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.29 Mbit/s

95th percentile per-packet one-way delay: 117.287 ms

Loss rate: 0.00%

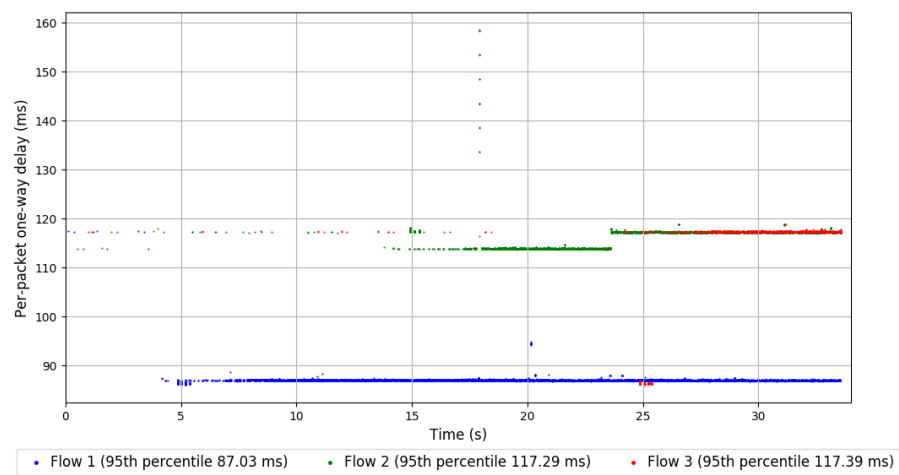
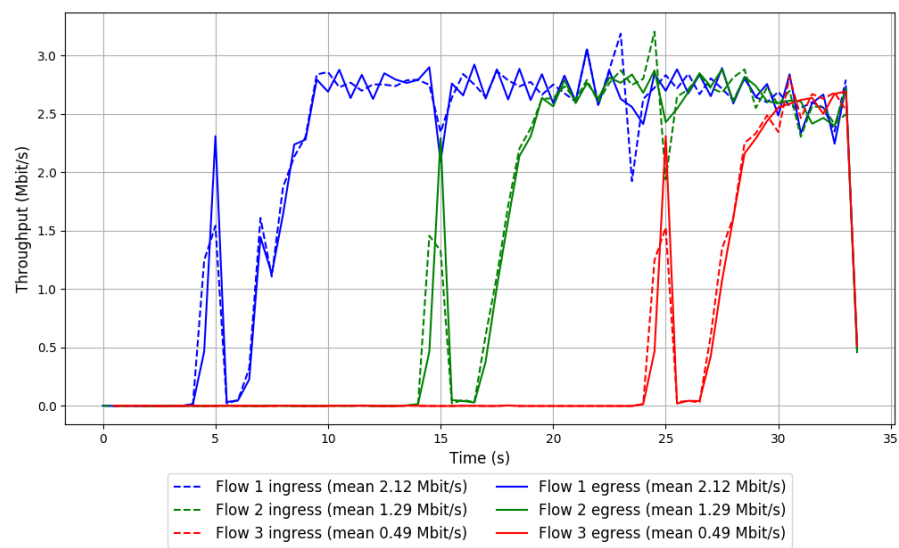
-- Flow 3:

Average throughput: 0.49 Mbit/s

95th percentile per-packet one-way delay: 117.393 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2017-11-30 22:55:57

End at: 2017-11-30 22:56:27

Below is generated by plot.py at 2017-12-01 01:45:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.31 Mbit/s

95th percentile per-packet one-way delay: 117.496 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 117.533 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.51 Mbit/s

95th percentile per-packet one-way delay: 114.551 ms

Loss rate: 0.00%

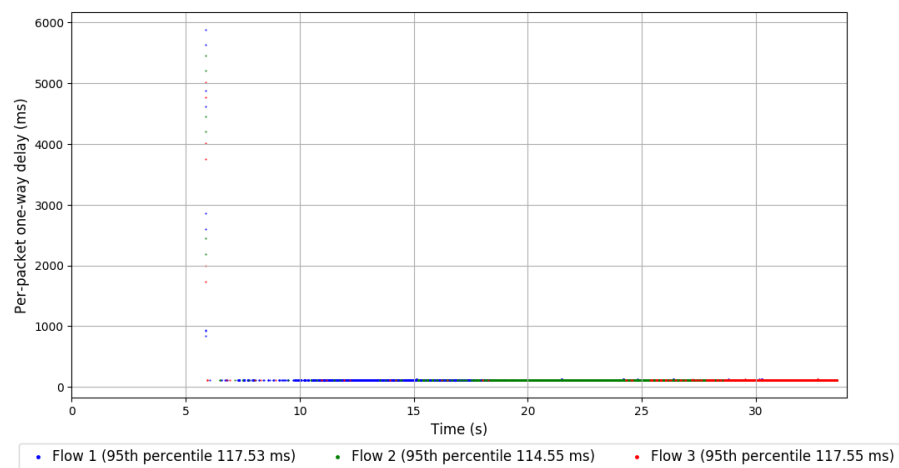
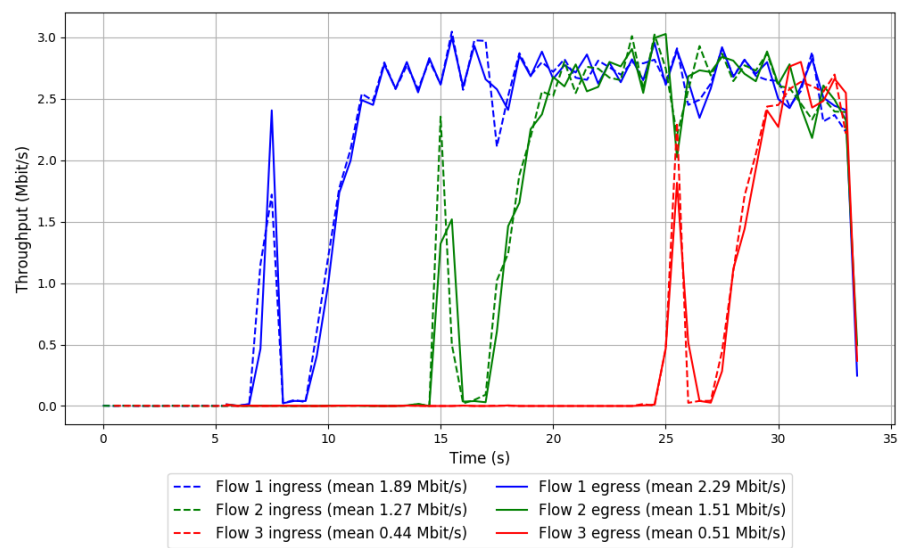
-- Flow 3:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 117.550 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2017-11-30 23:08:55

End at: 2017-11-30 23:09:25

Below is generated by plot.py at 2017-12-01 01:45:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.57 Mbit/s

95th percentile per-packet one-way delay: 117.418 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 117.369 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.69 Mbit/s

95th percentile per-packet one-way delay: 117.467 ms

Loss rate: 0.00%

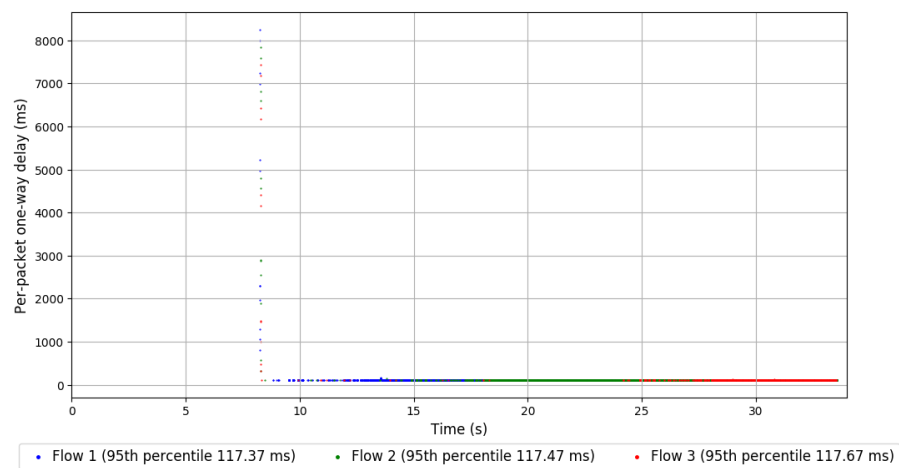
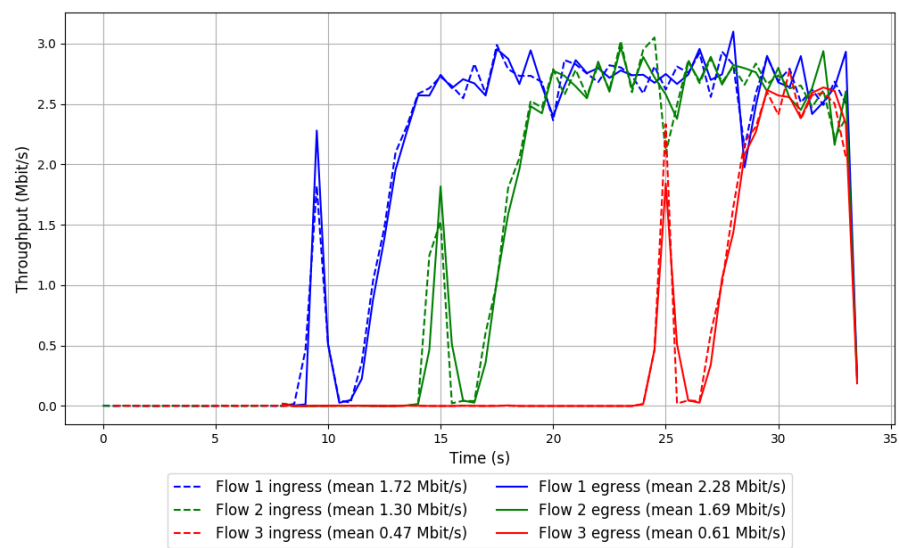
-- Flow 3:

Average throughput: 0.61 Mbit/s

95th percentile per-packet one-way delay: 117.671 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link

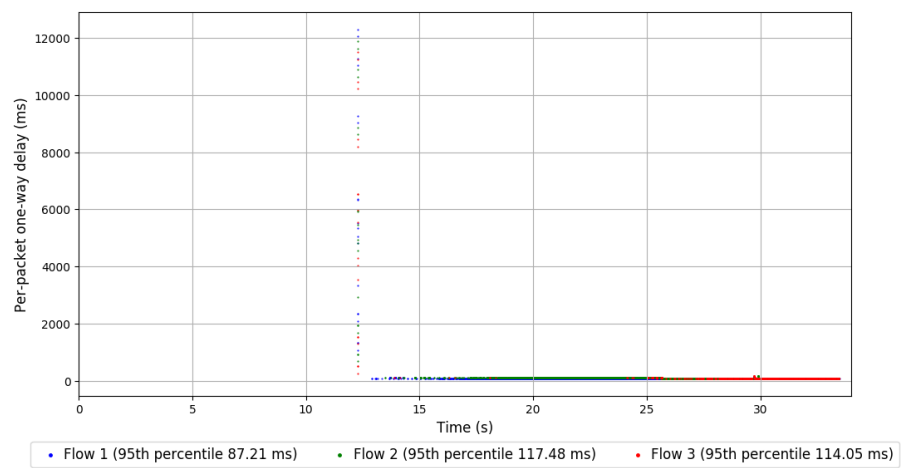
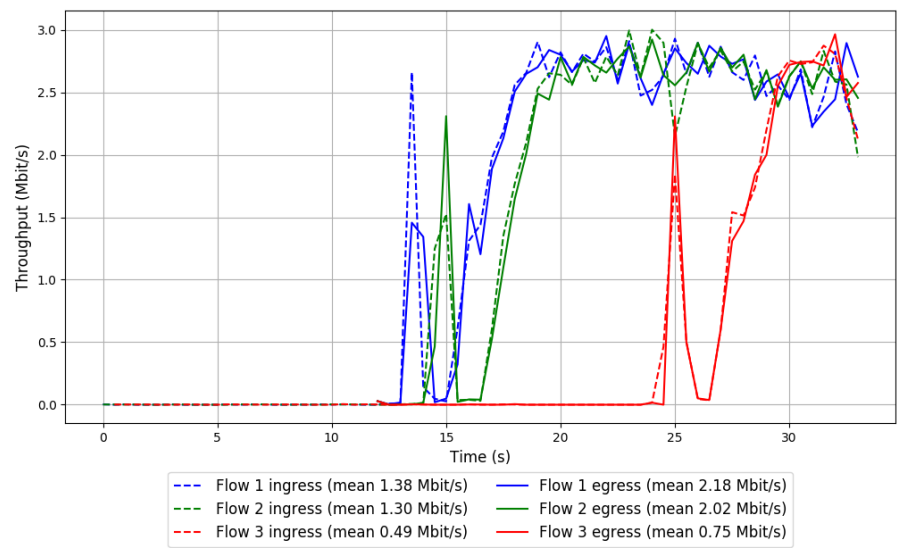


Run 5: Statistics of WebRTC media

Start at: 2017-11-30 23:21:39

End at: 2017-11-30 23:22:09

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2017-11-30 23:33:54

End at: 2017-11-30 23:34:24

Below is generated by plot.py at 2017-12-01 01:45:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.82 Mbit/s

95th percentile per-packet one-way delay: 114.176 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 2.06 Mbit/s

95th percentile per-packet one-way delay: 114.002 ms

Loss rate: 0.15%

-- Flow 2:

Average throughput: 1.30 Mbit/s

95th percentile per-packet one-way delay: 114.257 ms

Loss rate: 0.00%

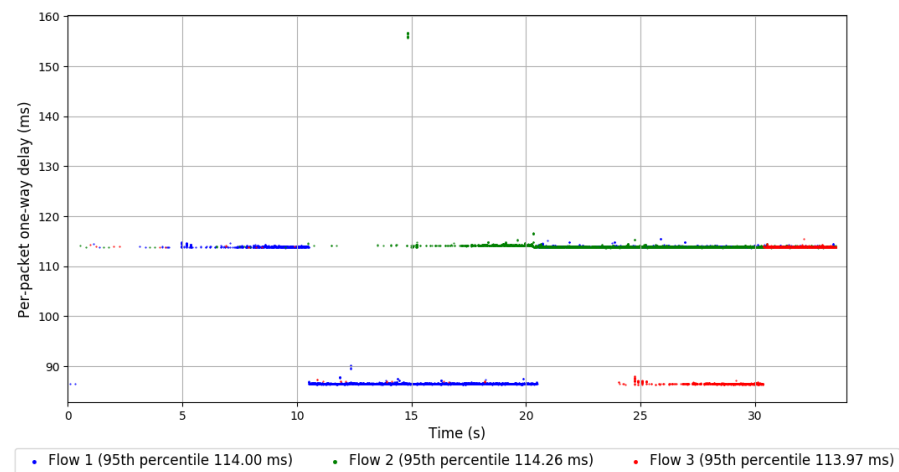
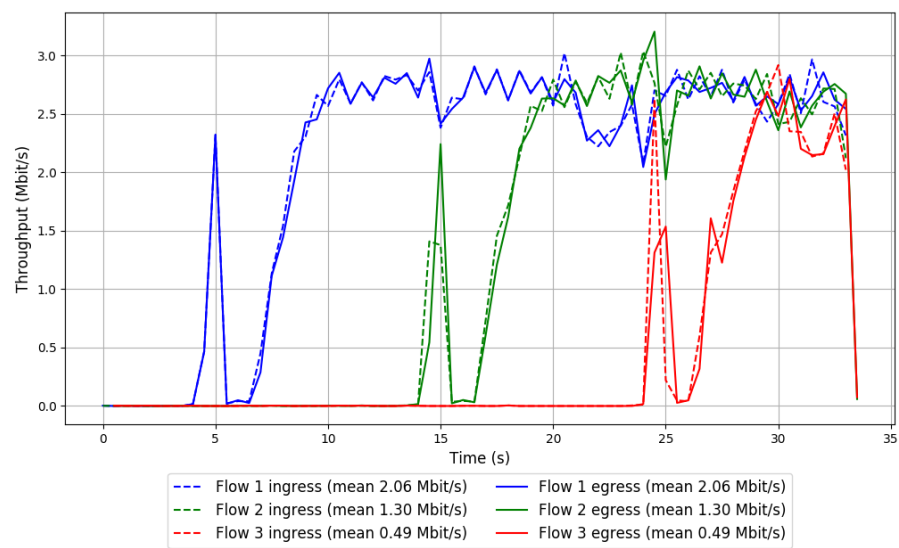
-- Flow 3:

Average throughput: 0.49 Mbit/s

95th percentile per-packet one-way delay: 113.974 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2017-11-30 23:46:30

End at: 2017-11-30 23:47:00

Below is generated by plot.py at 2017-12-01 01:45:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.83 Mbit/s

95th percentile per-packet one-way delay: 117.299 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.09 Mbit/s

95th percentile per-packet one-way delay: 114.327 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.28 Mbit/s

95th percentile per-packet one-way delay: 117.306 ms

Loss rate: 0.00%

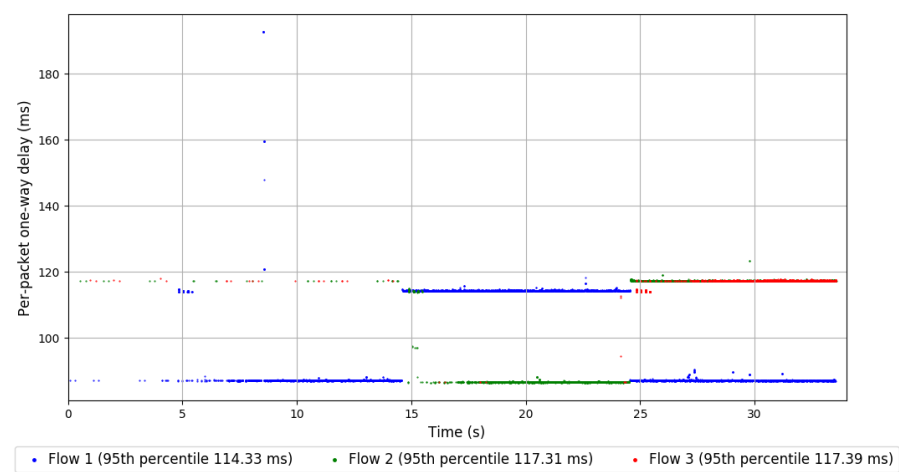
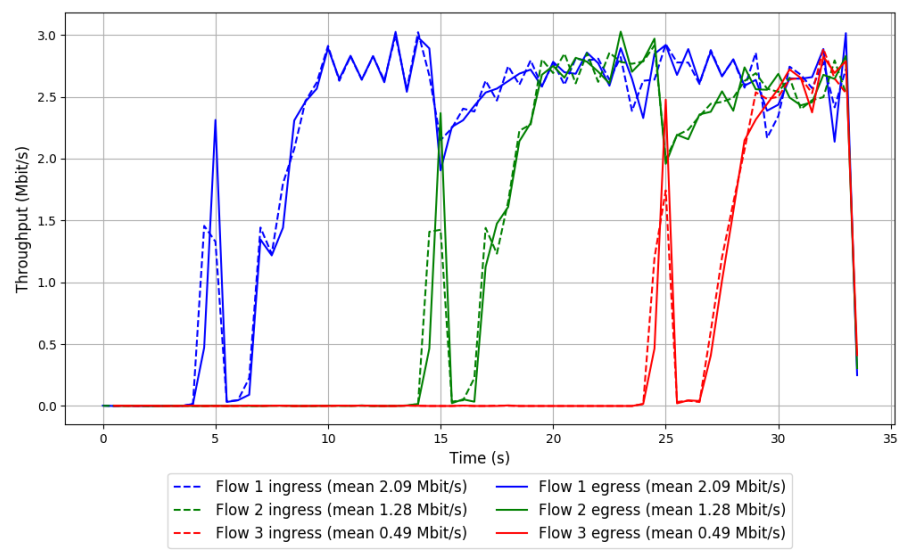
-- Flow 3:

Average throughput: 0.49 Mbit/s

95th percentile per-packet one-way delay: 117.386 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link

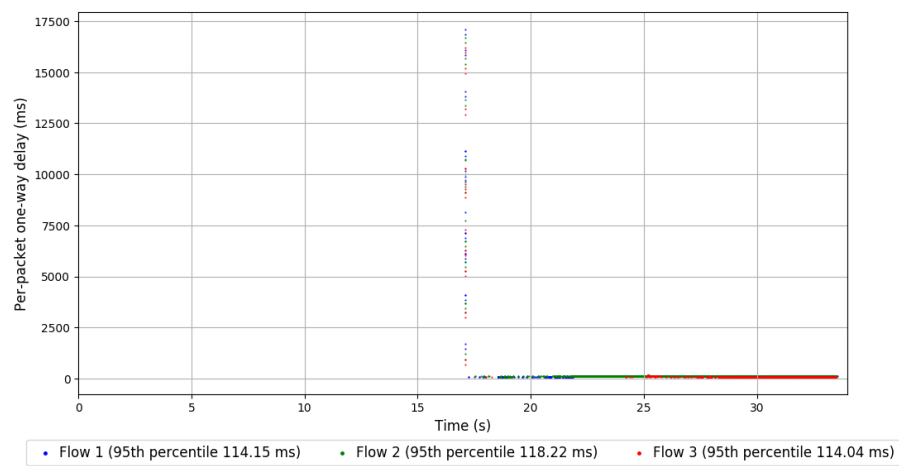
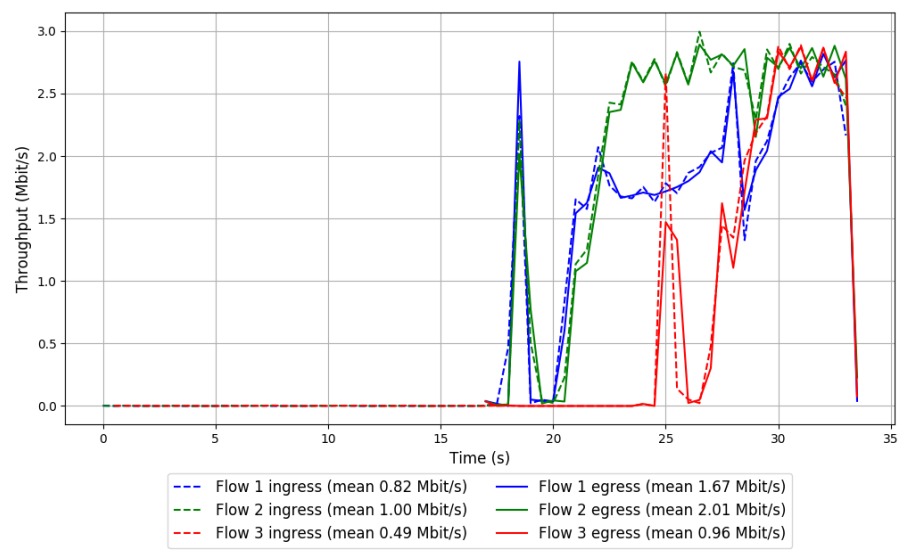


Run 8: Statistics of WebRTC media

Start at: 2017-11-30 23:58:52

End at: 2017-11-30 23:59:22

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2017-12-01 00:11:24

End at: 2017-12-01 00:11:54

Below is generated by plot.py at 2017-12-01 01:45:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.80 Mbit/s

95th percentile per-packet one-way delay: 117.380 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 2.07 Mbit/s

95th percentile per-packet one-way delay: 117.292 ms

Loss rate: 0.15%

-- Flow 2:

Average throughput: 1.28 Mbit/s

95th percentile per-packet one-way delay: 117.457 ms

Loss rate: 0.00%

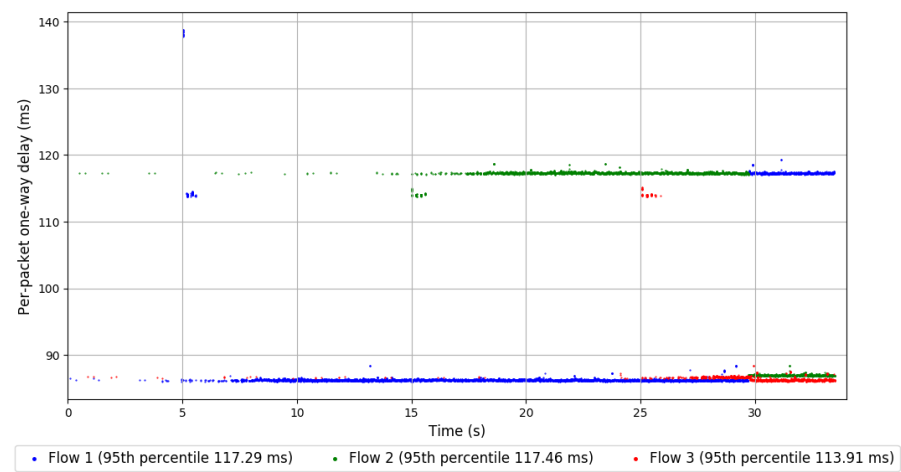
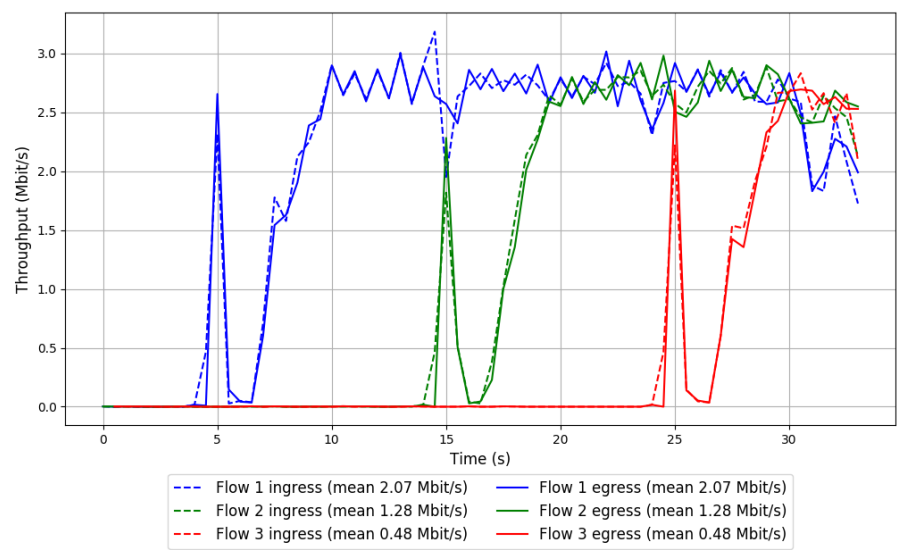
-- Flow 3:

Average throughput: 0.48 Mbit/s

95th percentile per-packet one-way delay: 113.906 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2017-12-01 00:24:05

End at: 2017-12-01 00:24:35

Below is generated by plot.py at 2017-12-01 01:45:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.06 Mbit/s

95th percentile per-packet one-way delay: 117.346 ms

Loss rate: 0.73%

-- Flow 1:

Average throughput: 1.99 Mbit/s

95th percentile per-packet one-way delay: 117.421 ms

Loss rate: 0.19%

-- Flow 2:

Average throughput: 1.55 Mbit/s

95th percentile per-packet one-way delay: 113.975 ms

Loss rate: 0.73%

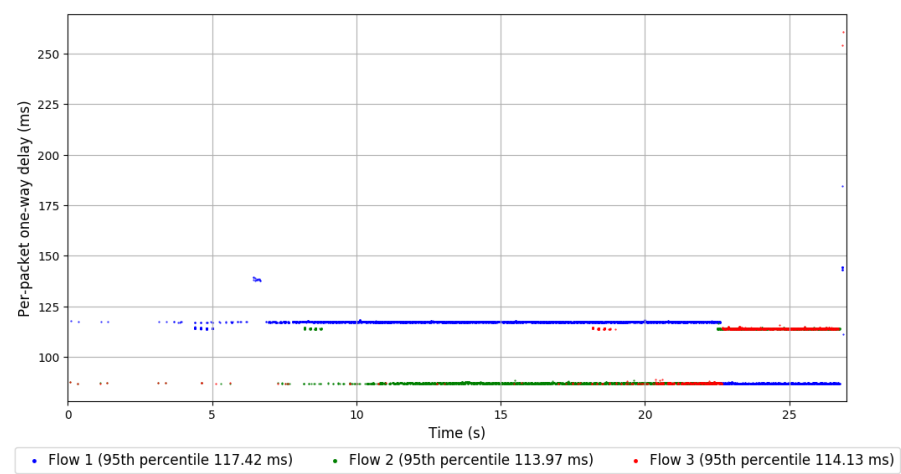
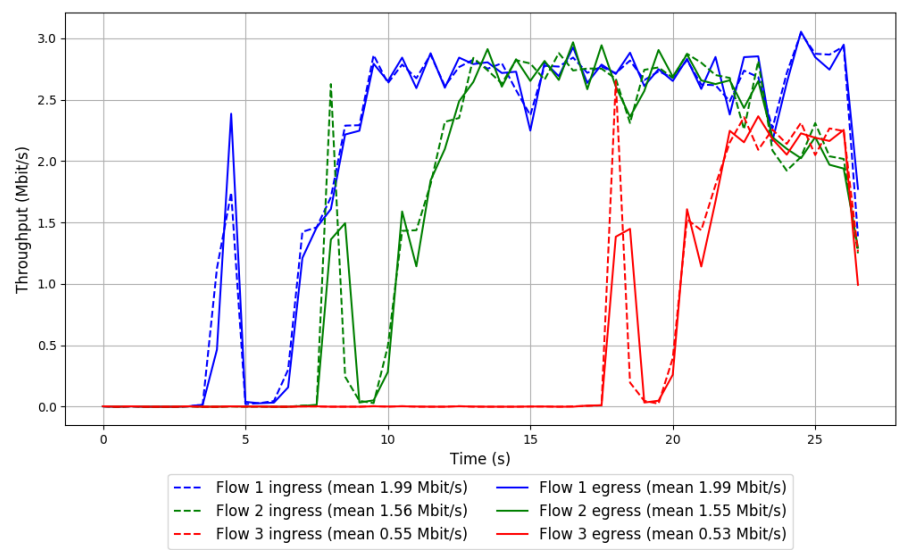
-- Flow 3:

Average throughput: 0.53 Mbit/s

95th percentile per-packet one-way delay: 114.130 ms

Loss rate: 2.71%

Run 10: Report of WebRTC media — Data Link

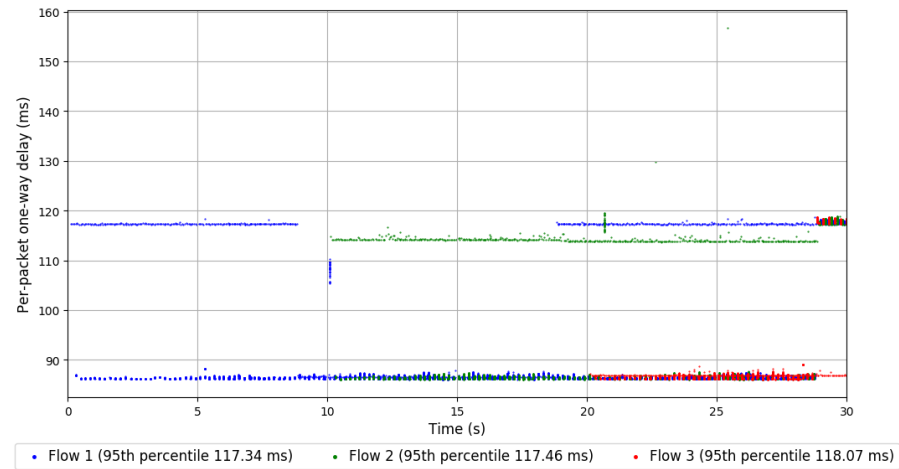
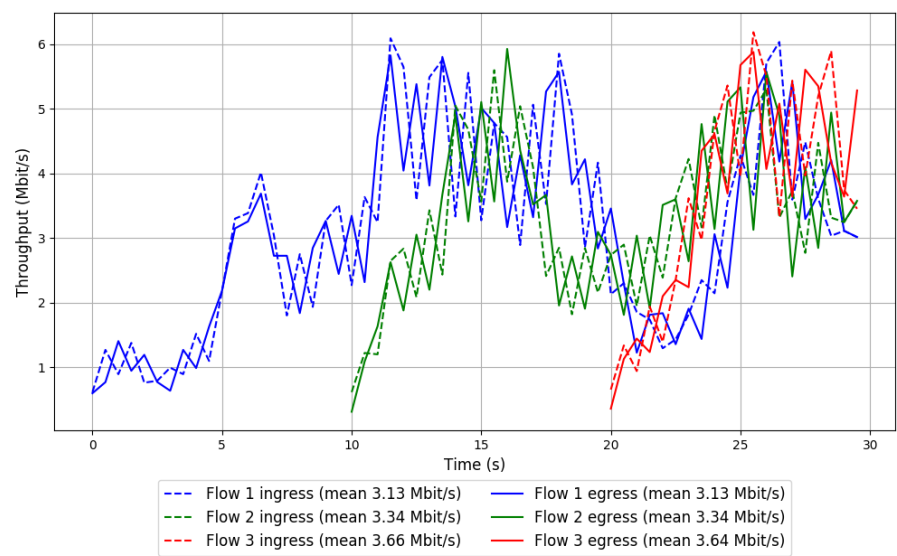


```
Run 1: Statistics of Sprout

Start at: 2017-11-30 22:28:42
End at: 2017-11-30 22:29:12

# Below is generated by plot.py at 2017-12-01 01:45:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 6.55 Mbit/s
95th percentile per-packet one-way delay: 117.516 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 3.13 Mbit/s
95th percentile per-packet one-way delay: 117.340 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 3.34 Mbit/s
95th percentile per-packet one-way delay: 117.456 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 3.64 Mbit/s
95th percentile per-packet one-way delay: 118.070 ms
Loss rate: 0.00%
```

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2017-11-30 22:41:19

End at: 2017-11-30 22:41:49

Below is generated by plot.py at 2017-12-01 01:45:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 5.33 Mbit/s

95th percentile per-packet one-way delay: 117.228 ms

Loss rate: 0.58%

-- Flow 1:

Average throughput: 3.26 Mbit/s

95th percentile per-packet one-way delay: 117.224 ms

Loss rate: 0.88%

-- Flow 2:

Average throughput: 3.02 Mbit/s

95th percentile per-packet one-way delay: 117.227 ms

Loss rate: 0.10%

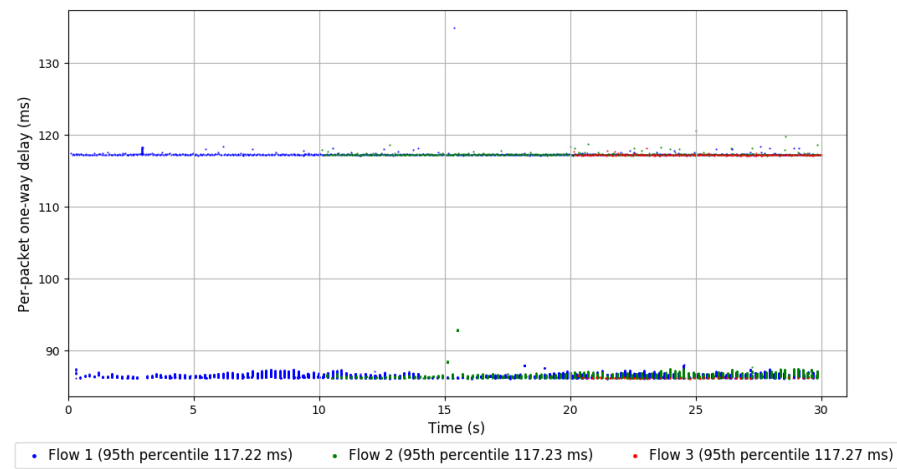
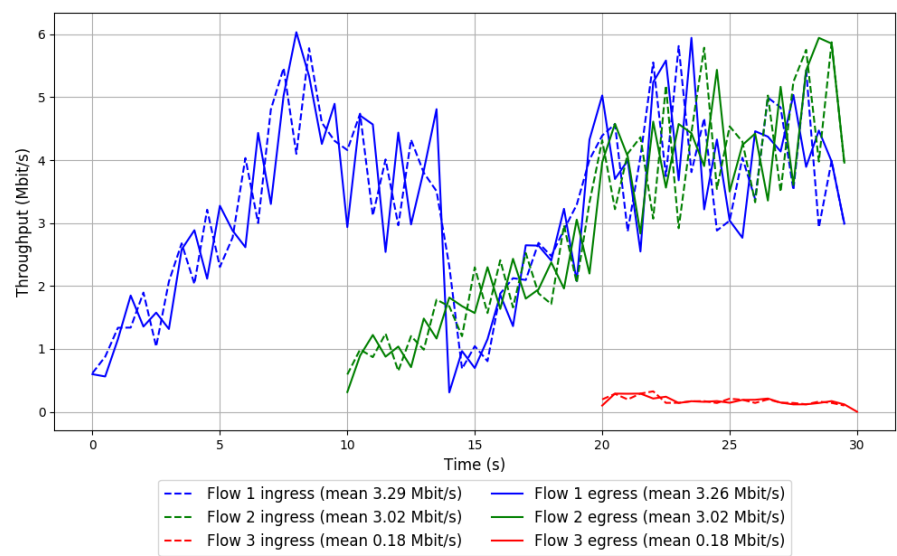
-- Flow 3:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 117.267 ms

Loss rate: 0.00%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2017-11-30 22:54:26

End at: 2017-11-30 22:54:56

Below is generated by plot.py at 2017-12-01 01:45:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 5.04 Mbit/s

95th percentile per-packet one-way delay: 115.020 ms

Loss rate: 0.89%

-- Flow 1:

Average throughput: 3.14 Mbit/s

95th percentile per-packet one-way delay: 114.982 ms

Loss rate: 0.21%

-- Flow 2:

Average throughput: 2.39 Mbit/s

95th percentile per-packet one-way delay: 114.894 ms

Loss rate: 1.60%

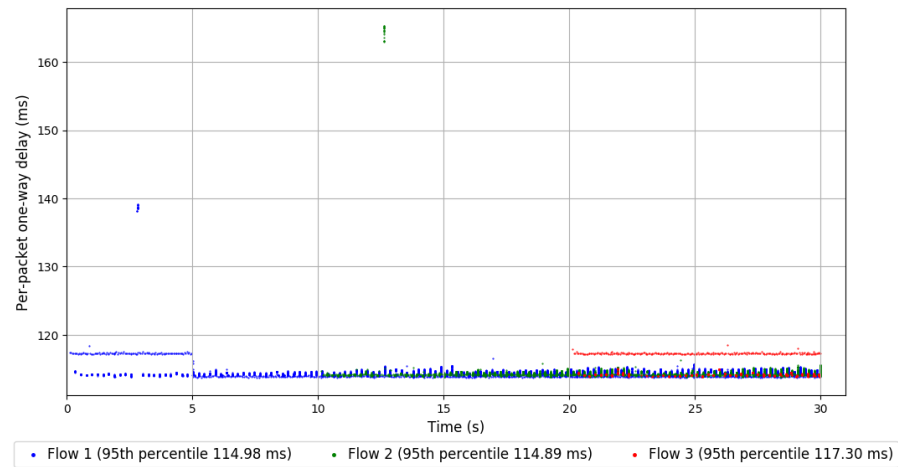
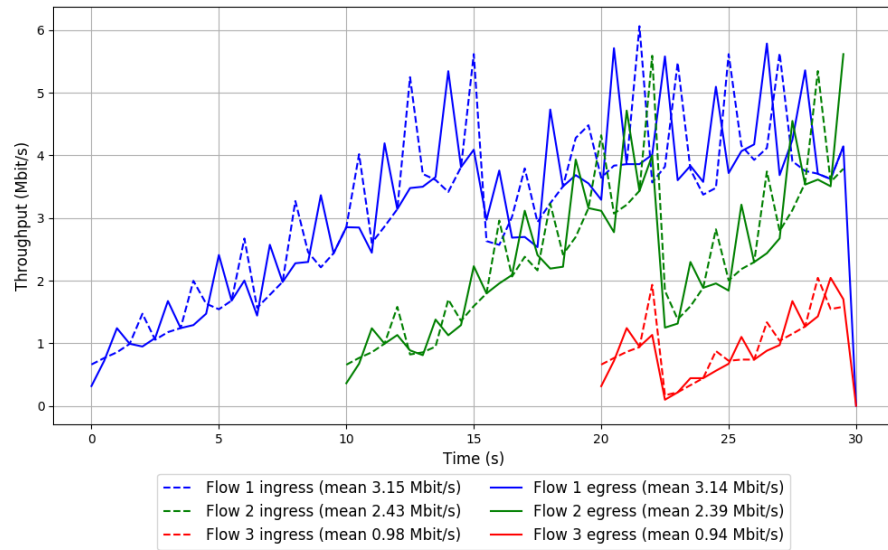
-- Flow 3:

Average throughput: 0.94 Mbit/s

95th percentile per-packet one-way delay: 117.303 ms

Loss rate: 3.92%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2017-11-30 23:07:24

End at: 2017-11-30 23:07:54

Below is generated by plot.py at 2017-12-01 01:45:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 6.03 Mbit/s

95th percentile per-packet one-way delay: 117.181 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 3.38 Mbit/s

95th percentile per-packet one-way delay: 117.201 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 2.92 Mbit/s

95th percentile per-packet one-way delay: 117.177 ms

Loss rate: 0.00%

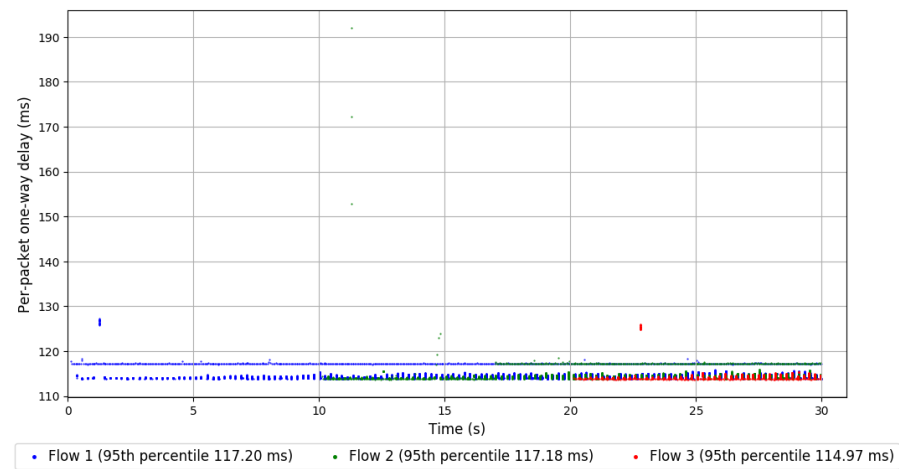
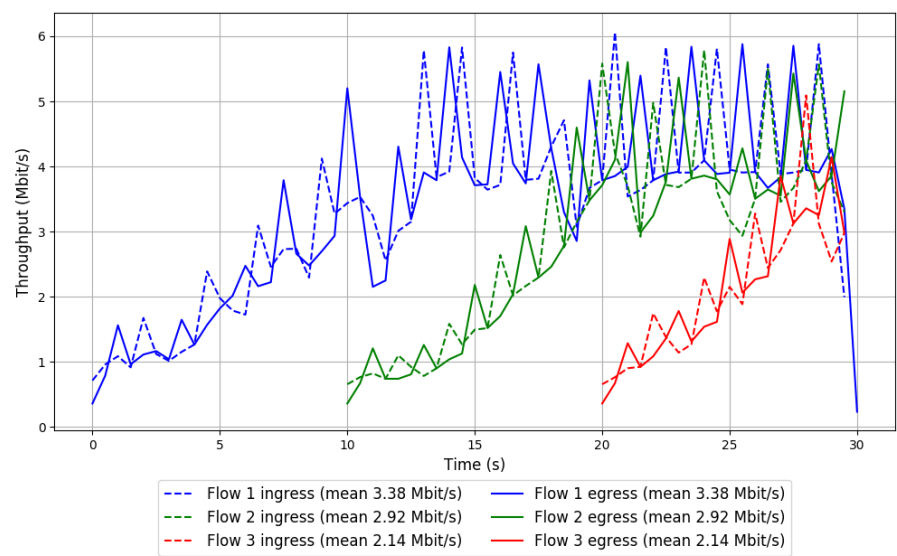
-- Flow 3:

Average throughput: 2.14 Mbit/s

95th percentile per-packet one-way delay: 114.968 ms

Loss rate: 0.00%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2017-11-30 23:20:09

End at: 2017-11-30 23:20:39

Below is generated by plot.py at 2017-12-01 01:45:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 1.98 Mbit/s

95th percentile per-packet one-way delay: 114.518 ms

Loss rate: 1.31%

-- Flow 1:

Average throughput: 1.33 Mbit/s

95th percentile per-packet one-way delay: 114.620 ms

Loss rate: 1.93%

-- Flow 2:

Average throughput: 0.58 Mbit/s

95th percentile per-packet one-way delay: 114.105 ms

Loss rate: 0.00%

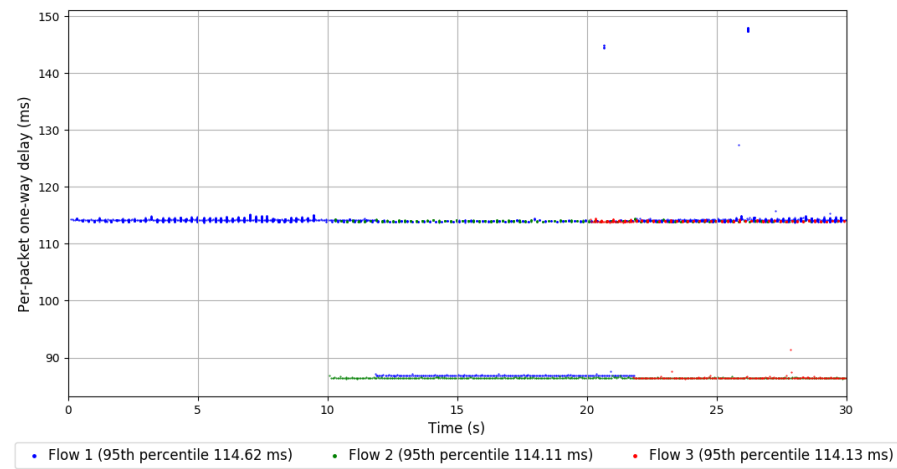
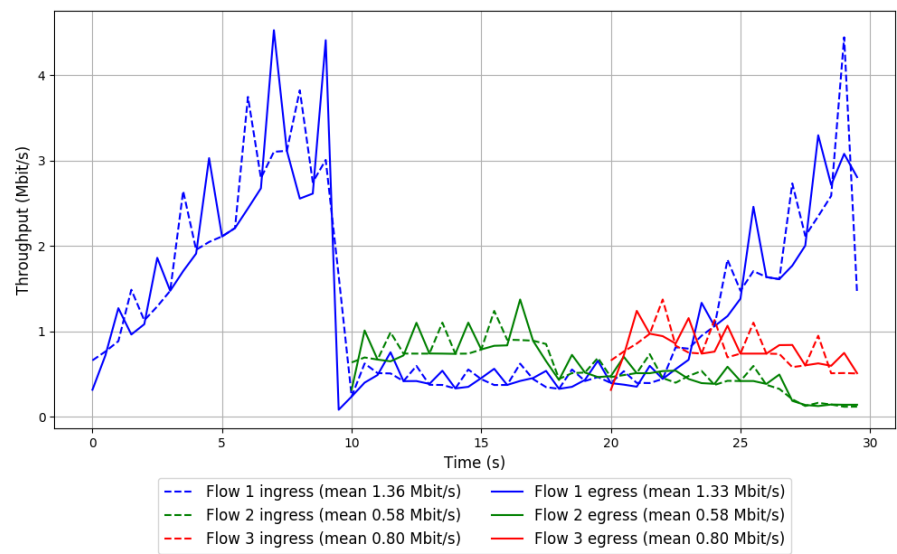
-- Flow 3:

Average throughput: 0.80 Mbit/s

95th percentile per-packet one-way delay: 114.132 ms

Loss rate: 0.00%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2017-11-30 23:32:24

End at: 2017-11-30 23:32:54

Below is generated by plot.py at 2017-12-01 01:45:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 2.38 Mbit/s

95th percentile per-packet one-way delay: 114.912 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 1.76 Mbit/s

95th percentile per-packet one-way delay: 114.963 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 0.46 Mbit/s

95th percentile per-packet one-way delay: 114.136 ms

Loss rate: 0.13%

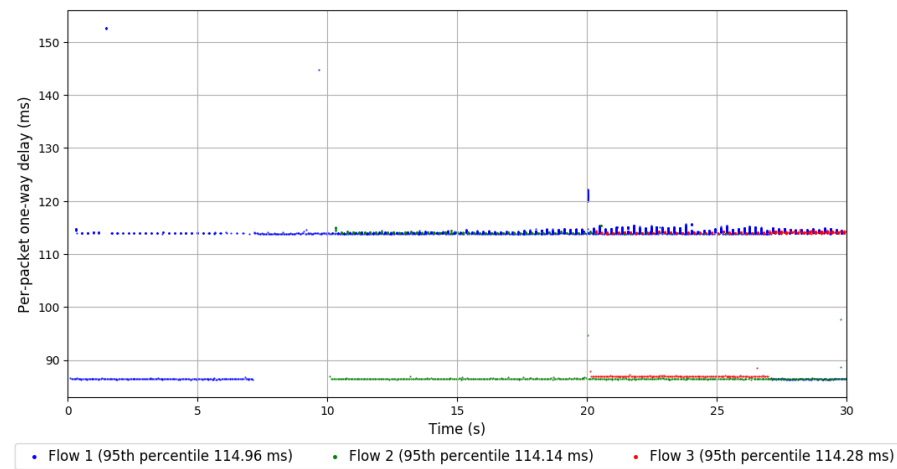
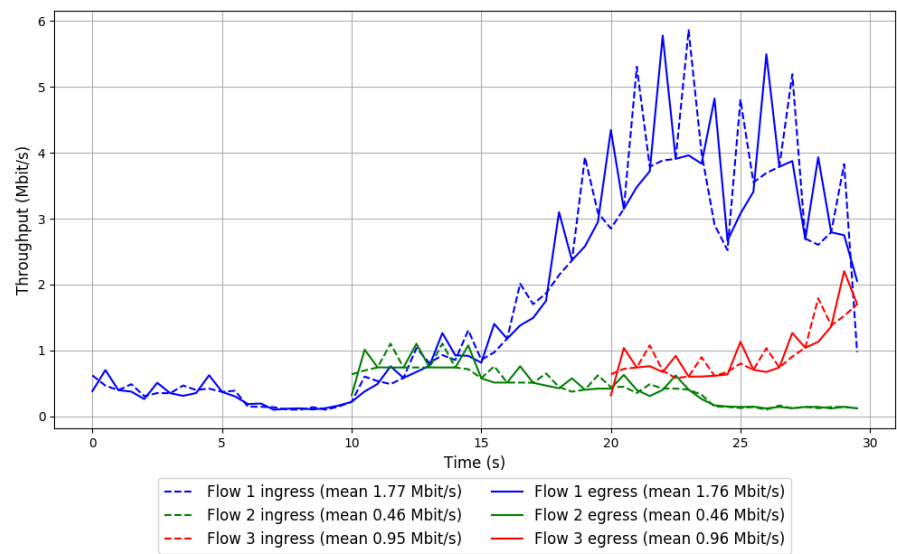
-- Flow 3:

Average throughput: 0.96 Mbit/s

95th percentile per-packet one-way delay: 114.275 ms

Loss rate: 0.01%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2017-11-30 23:45:00

End at: 2017-11-30 23:45:30

Below is generated by plot.py at 2017-12-01 01:45:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.95 Mbit/s

95th percentile per-packet one-way delay: 115.316 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 3.62 Mbit/s

95th percentile per-packet one-way delay: 114.962 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.83 Mbit/s

95th percentile per-packet one-way delay: 117.245 ms

Loss rate: 0.00%

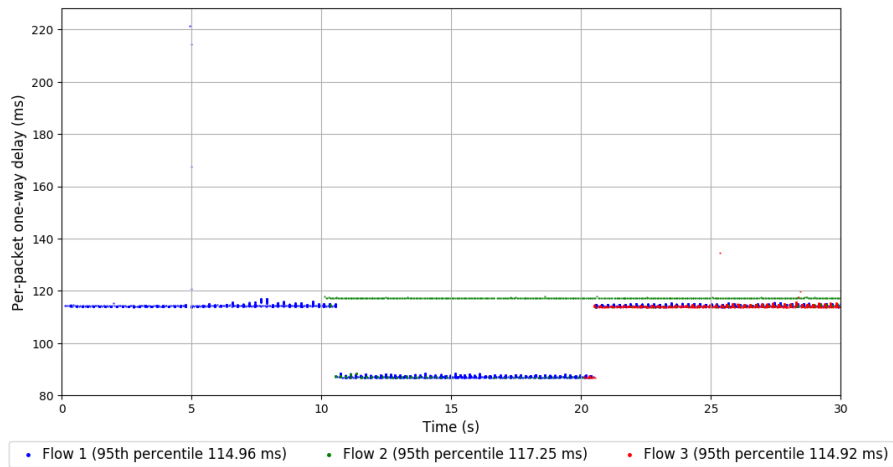
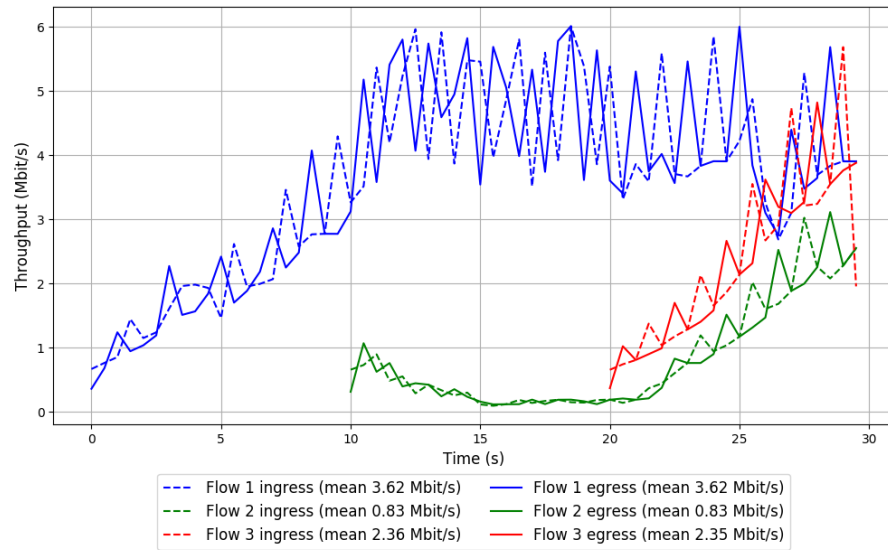
-- Flow 3:

Average throughput: 2.35 Mbit/s

95th percentile per-packet one-way delay: 114.923 ms

Loss rate: 0.00%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2017-11-30 23:57:21

End at: 2017-11-30 23:57:51

Below is generated by plot.py at 2017-12-01 01:45:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 5.06 Mbit/s

95th percentile per-packet one-way delay: 114.784 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 3.45 Mbit/s

95th percentile per-packet one-way delay: 114.838 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 2.22 Mbit/s

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

Loss rate: 0.08%

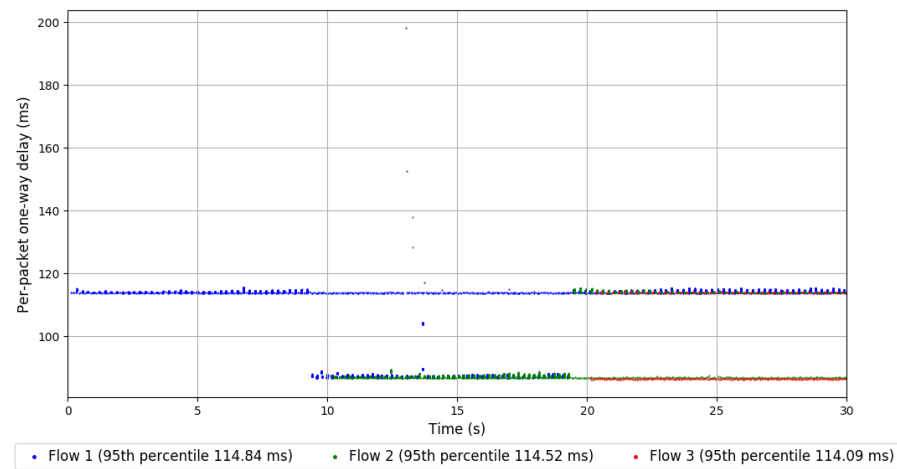
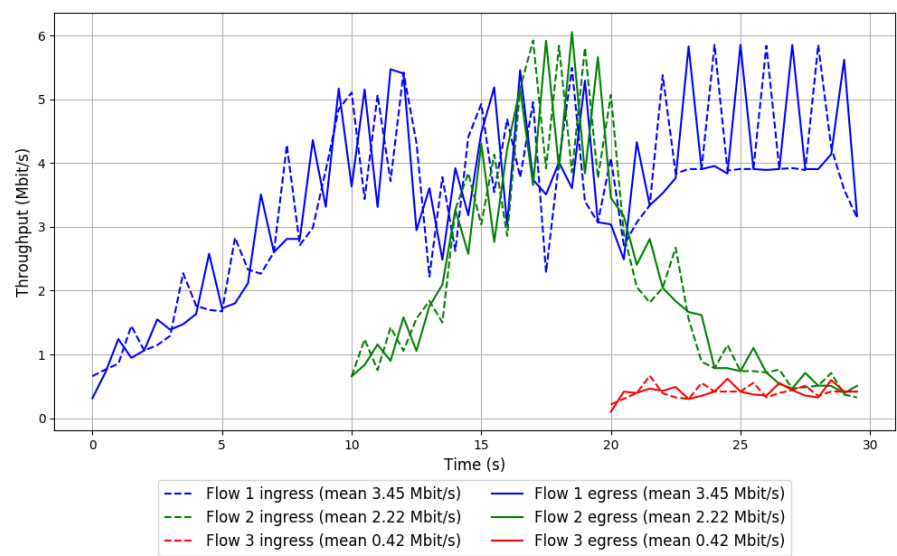
-- Flow 3:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 114.092 ms

Loss rate: 0.00%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2017-12-01 00:09:55

End at: 2017-12-01 00:10:25

Below is generated by plot.py at 2017-12-01 01:45:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 2.89 Mbit/s

95th percentile per-packet one-way delay: 117.262 ms

Loss rate: 1.15%

-- Flow 1:

Average throughput: 2.27 Mbit/s

95th percentile per-packet one-way delay: 117.267 ms

Loss rate: 1.34%

-- Flow 2:

Average throughput: 0.29 Mbit/s

95th percentile per-packet one-way delay: 114.215 ms

Loss rate: 1.44%

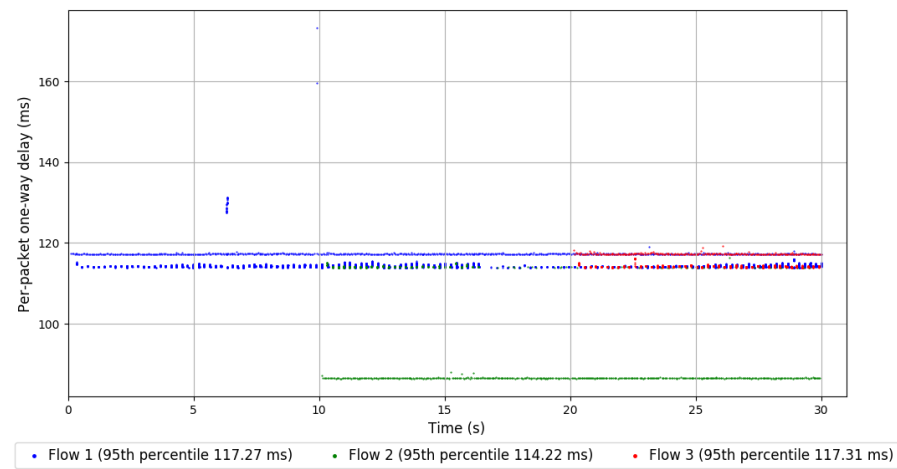
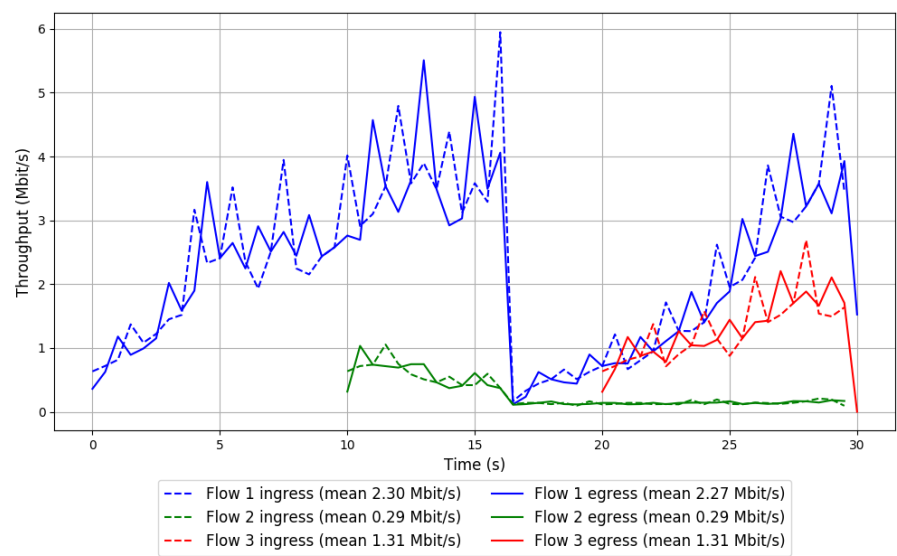
-- Flow 3:

Average throughput: 1.31 Mbit/s

95th percentile per-packet one-way delay: 117.310 ms

Loss rate: 0.00%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2017-12-01 00:22:36

End at: 2017-12-01 00:23:06

Below is generated by plot.py at 2017-12-01 01:45:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 1.48 Mbit/s

95th percentile per-packet one-way delay: 117.229 ms

Loss rate: 2.35%

-- Flow 1:

Average throughput: 0.50 Mbit/s

95th percentile per-packet one-way delay: 114.316 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.35 Mbit/s

95th percentile per-packet one-way delay: 117.249 ms

Loss rate: 2.79%

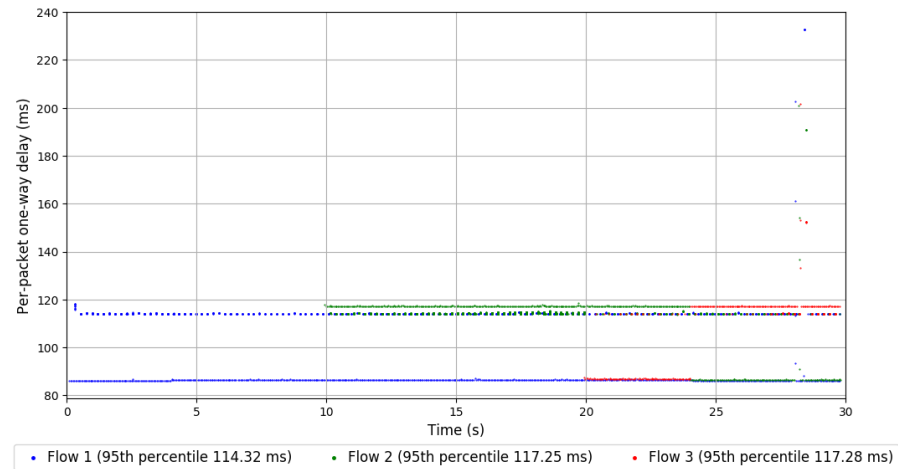
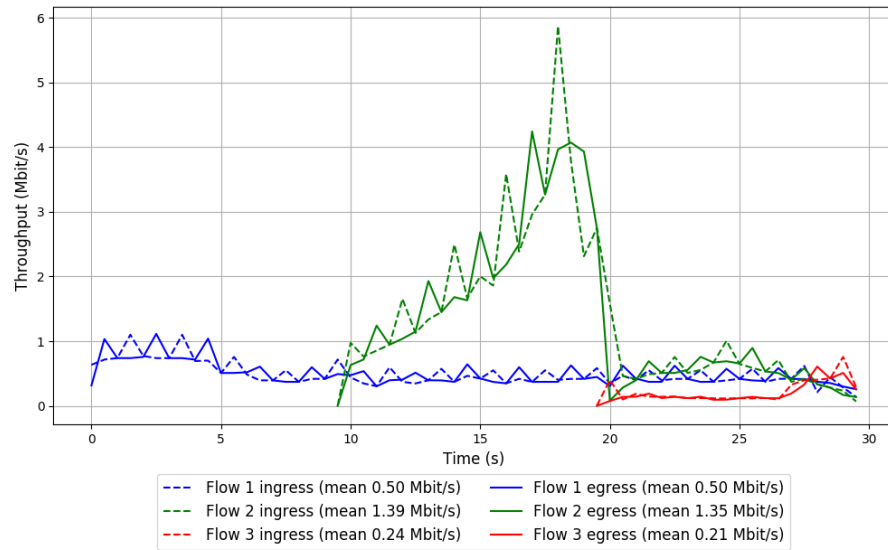
-- Flow 3:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 117.277 ms

Loss rate: 12.24%

Run 10: Report of Sprout — Data Link

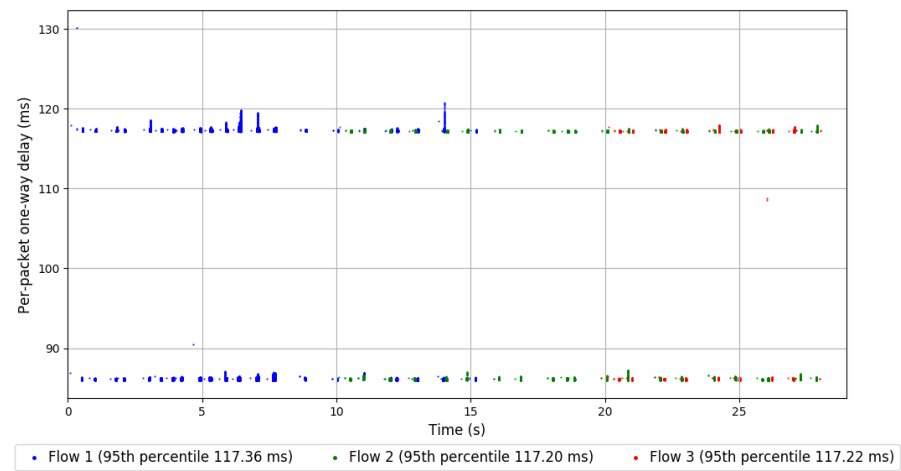
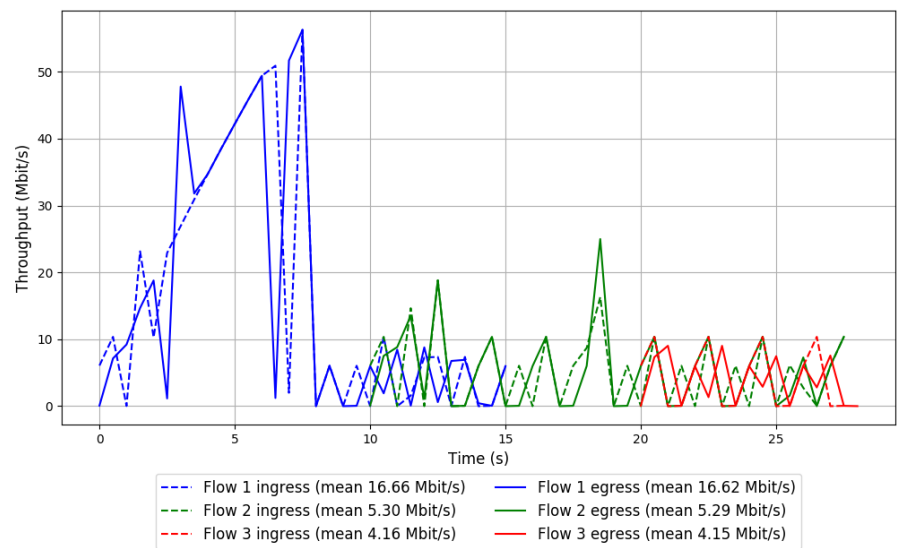


```
Run 1: Statistics of TaoVA-100x

Start at: 2017-11-30 22:25:03
End at: 2017-11-30 22:25:33

# Below is generated by plot.py at 2017-12-01 01:45:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 13.54 Mbit/s
95th percentile per-packet one-way delay: 117.325 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 16.62 Mbit/s
95th percentile per-packet one-way delay: 117.360 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 5.29 Mbit/s
95th percentile per-packet one-way delay: 117.205 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 4.15 Mbit/s
95th percentile per-packet one-way delay: 117.224 ms
Loss rate: 0.00%
```


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

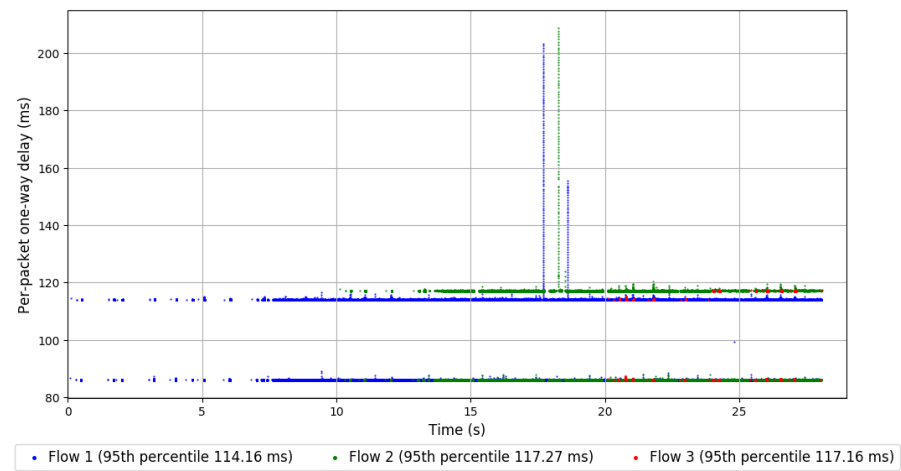
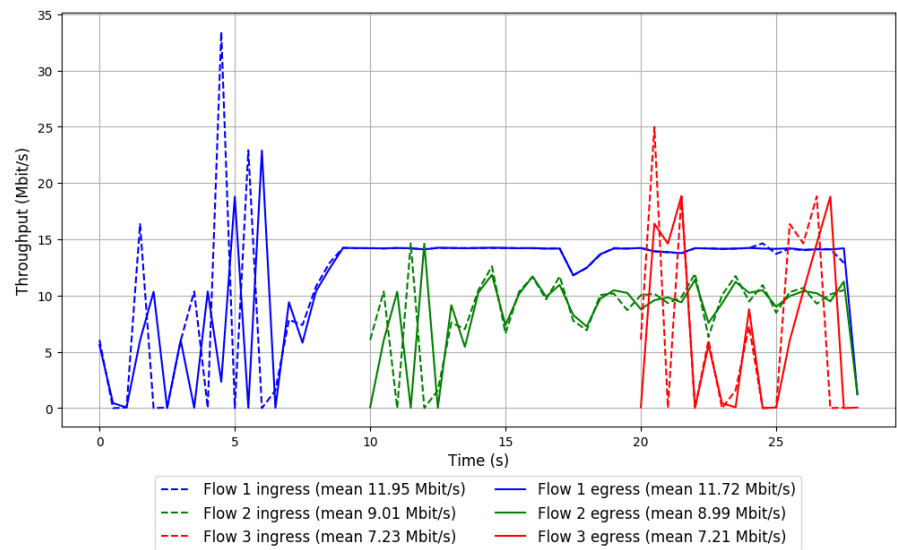


```
Run 2: Statistics of TaoVA-100x

Start at: 2017-11-30 22:37:45
End at: 2017-11-30 22:38:15

# Below is generated by plot.py at 2017-12-01 01:45:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 19.55 Mbit/s
95th percentile per-packet one-way delay: 117.167 ms
Loss rate: 1.11%
-- Flow 1:
Average throughput: 11.72 Mbit/s
95th percentile per-packet one-way delay: 114.161 ms
Loss rate: 1.84%
-- Flow 2:
Average throughput: 8.99 Mbit/s
95th percentile per-packet one-way delay: 117.267 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 7.21 Mbit/s
95th percentile per-packet one-way delay: 117.160 ms
Loss rate: 0.00%
```

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

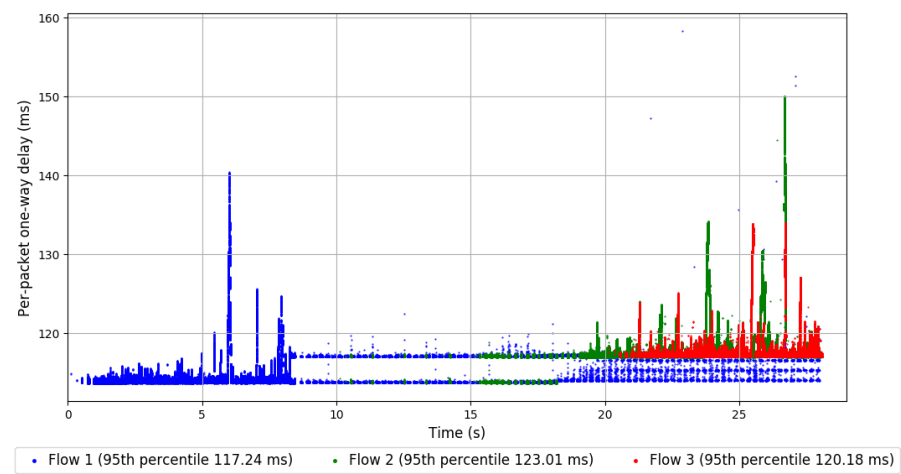
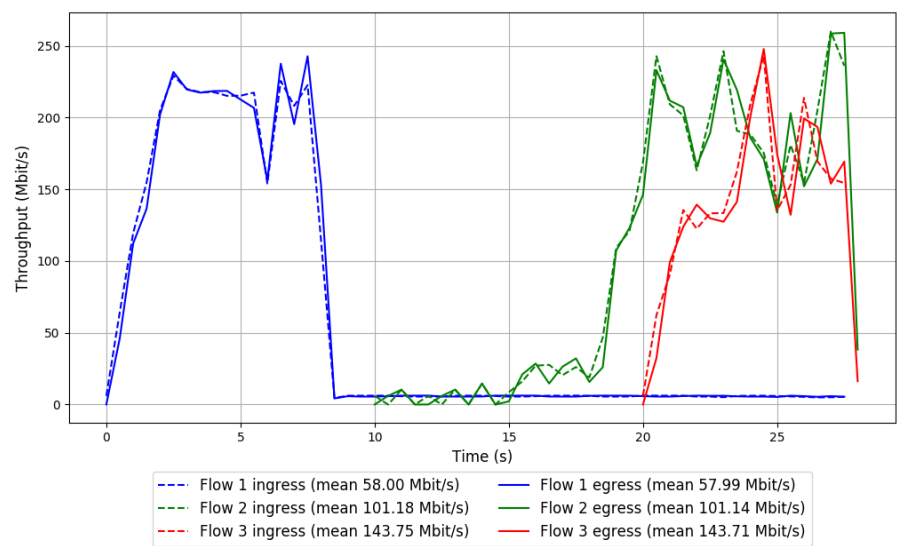


```
Run 3: Statistics of TaoVA-100x

Start at: 2017-11-30 22:50:30
End at: 2017-11-30 22:51:00

# Below is generated by plot.py at 2017-12-01 01:49:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 163.52 Mbit/s
95th percentile per-packet one-way delay: 120.289 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 57.99 Mbit/s
95th percentile per-packet one-way delay: 117.244 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 101.14 Mbit/s
95th percentile per-packet one-way delay: 123.009 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 143.71 Mbit/s
95th percentile per-packet one-way delay: 120.181 ms
Loss rate: 0.06%
```

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

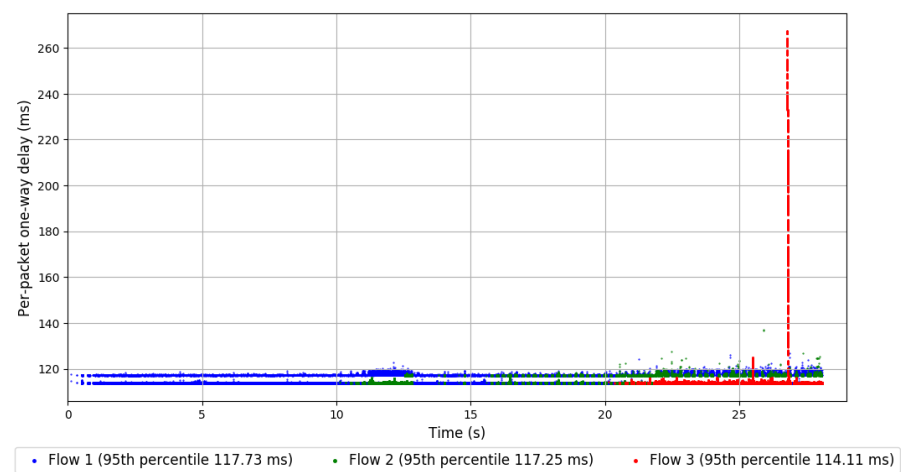
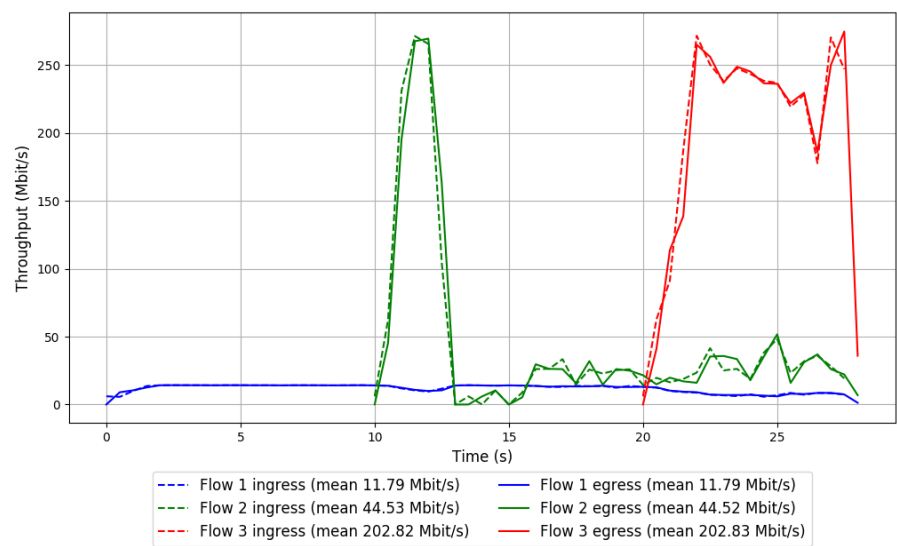


```
Run 4: Statistics of TaoVA-100x

Start at: 2017-11-30 23:03:36
End at: 2017-11-30 23:04:06

# Below is generated by plot.py at 2017-12-01 01:49:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.91 Mbit/s
95th percentile per-packet one-way delay: 117.202 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 11.79 Mbit/s
95th percentile per-packet one-way delay: 117.732 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 44.52 Mbit/s
95th percentile per-packet one-way delay: 117.250 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 202.83 Mbit/s
95th percentile per-packet one-way delay: 114.114 ms
Loss rate: 0.00%
```

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



Run 5: Statistics of TaoVA-100x

Start at: 2017-11-30 23:16:29

End at: 2017-11-30 23:16:59

Below is generated by plot.py at 2017-12-01 01:49:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 24.48 Mbit/s

95th percentile per-packet one-way delay: 117.215 ms

Loss rate: 0.26%

-- Flow 1:

Average throughput: 13.11 Mbit/s

95th percentile per-packet one-way delay: 113.891 ms

Loss rate: 0.09%

-- Flow 2:

Average throughput: 15.90 Mbit/s

95th percentile per-packet one-way delay: 117.294 ms

Loss rate: 0.13%

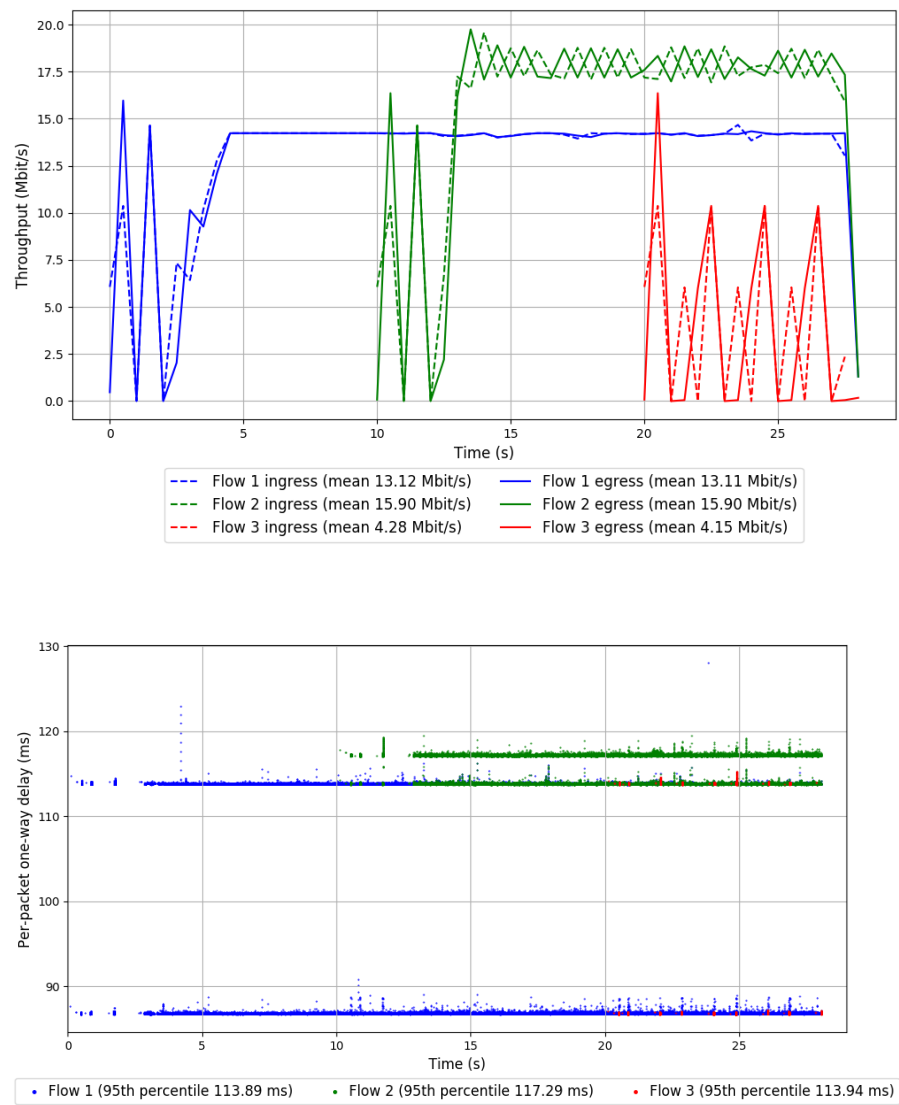
-- Flow 3:

Average throughput: 4.15 Mbit/s

95th percentile per-packet one-way delay: 113.940 ms

Loss rate: 3.13%

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



Run 6: Statistics of TaoVA-100x

Start at: 2017-11-30 23:28:46

End at: 2017-11-30 23:29:16

Below is generated by plot.py at 2017-12-01 01:49:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 90.71 Mbit/s

95th percentile per-packet one-way delay: 114.936 ms

Loss rate: 0.31%

-- Flow 1:

Average throughput: 33.95 Mbit/s

95th percentile per-packet one-way delay: 113.972 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 12.03 Mbit/s

95th percentile per-packet one-way delay: 113.945 ms

Loss rate: 0.16%

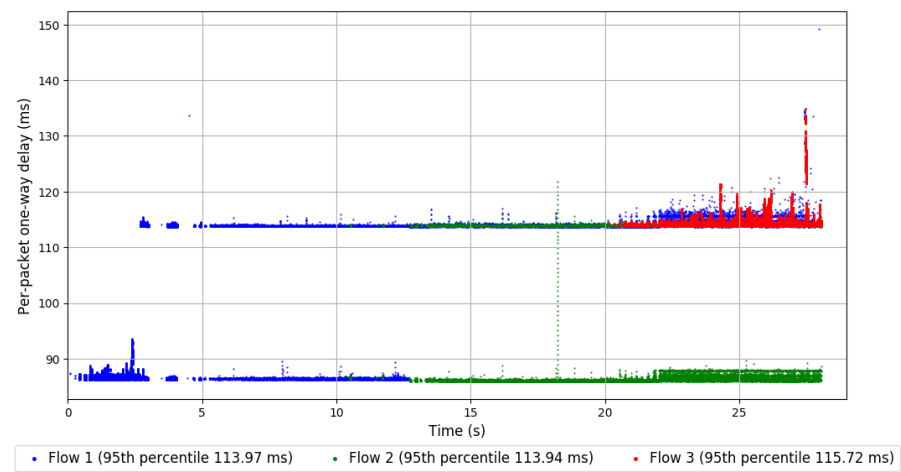
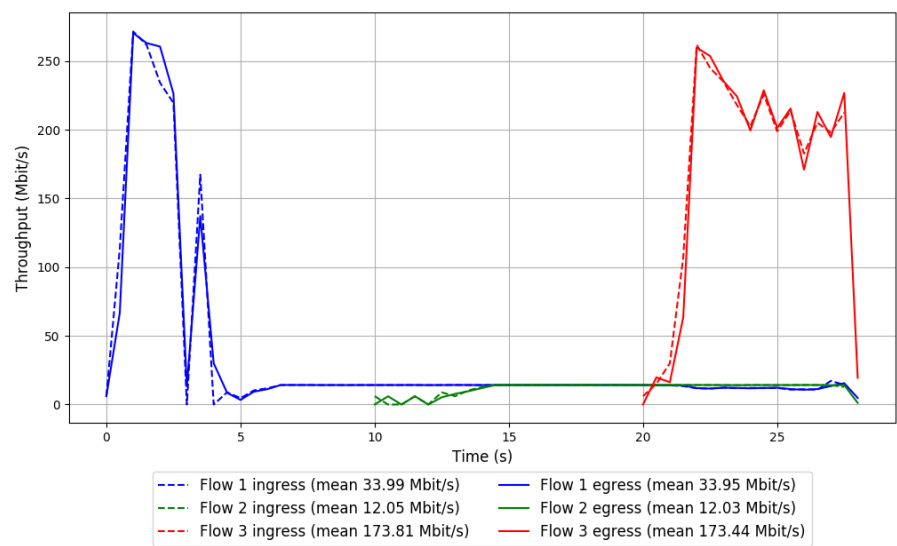
-- Flow 3:

Average throughput: 173.44 Mbit/s

95th percentile per-packet one-way delay: 115.721 ms

Loss rate: 0.55%

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



Run 7: Statistics of TaoVA-100x

Start at: 2017-11-30 23:41:14

End at: 2017-11-30 23:41:44

Below is generated by plot.py at 2017-12-01 01:49:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 109.20 Mbit/s

95th percentile per-packet one-way delay: 117.115 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 13.41 Mbit/s

95th percentile per-packet one-way delay: 117.397 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 75.57 Mbit/s

95th percentile per-packet one-way delay: 114.279 ms

Loss rate: 0.00%

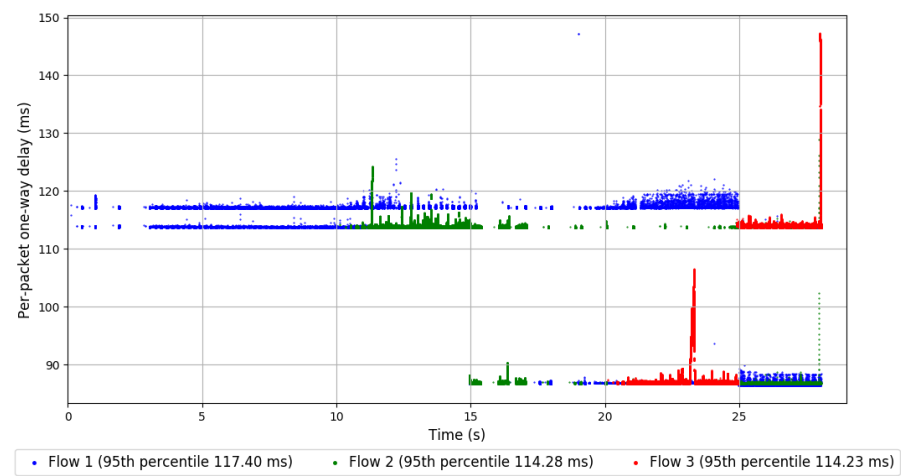
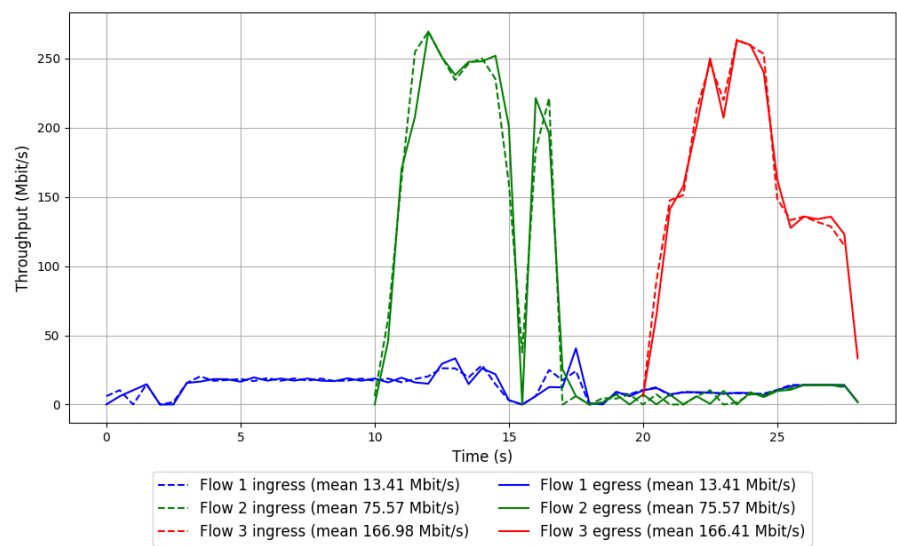
-- Flow 3:

Average throughput: 166.41 Mbit/s

95th percentile per-packet one-way delay: 114.226 ms

Loss rate: 0.00%

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



Run 8: Statistics of TaoVA-100x

Start at: 2017-11-30 23:53:51

End at: 2017-11-30 23:54:21

Below is generated by plot.py at 2017-12-01 01:49:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 17.34 Mbit/s

95th percentile per-packet one-way delay: 117.272 ms

Loss rate: 0.57%

-- Flow 1:

Average throughput: 6.32 Mbit/s

95th percentile per-packet one-way delay: 113.946 ms

Loss rate: 7.04%

-- Flow 2:

Average throughput: 18.55 Mbit/s

95th percentile per-packet one-way delay: 117.273 ms

Loss rate: 0.00%

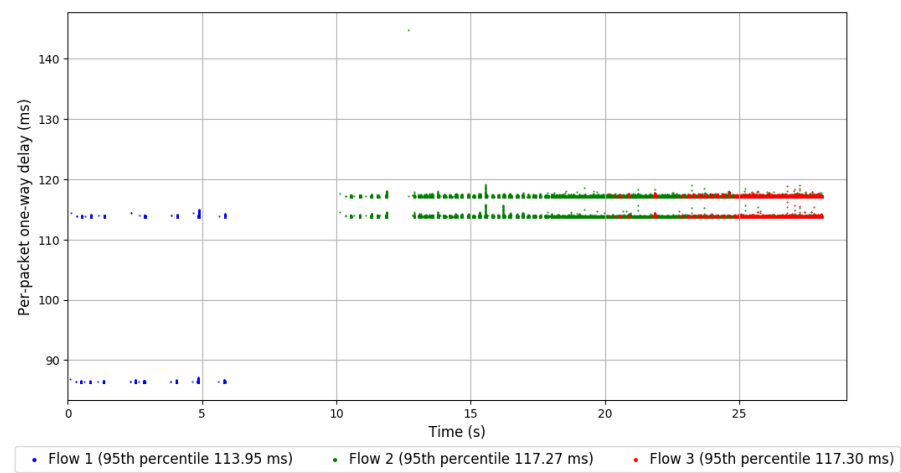
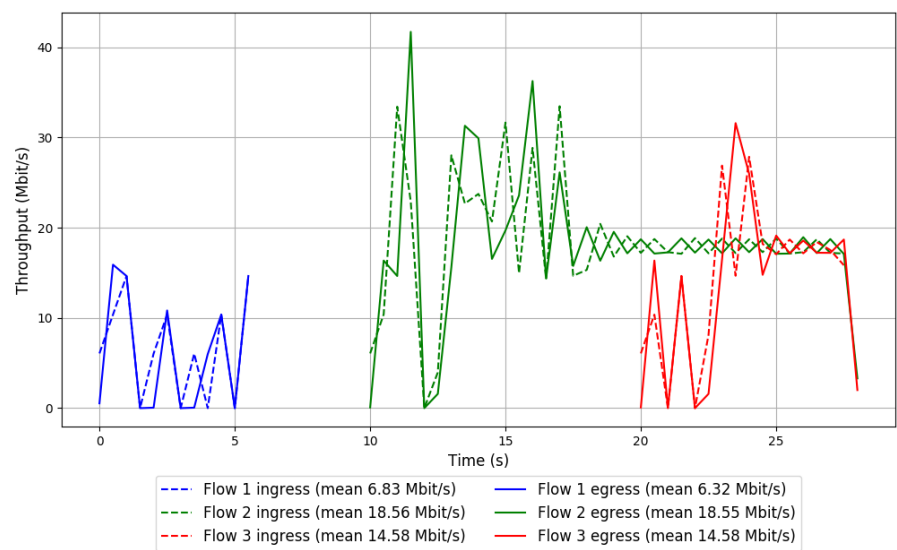
-- Flow 3:

Average throughput: 14.58 Mbit/s

95th percentile per-packet one-way delay: 117.295 ms

Loss rate: 0.00%

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

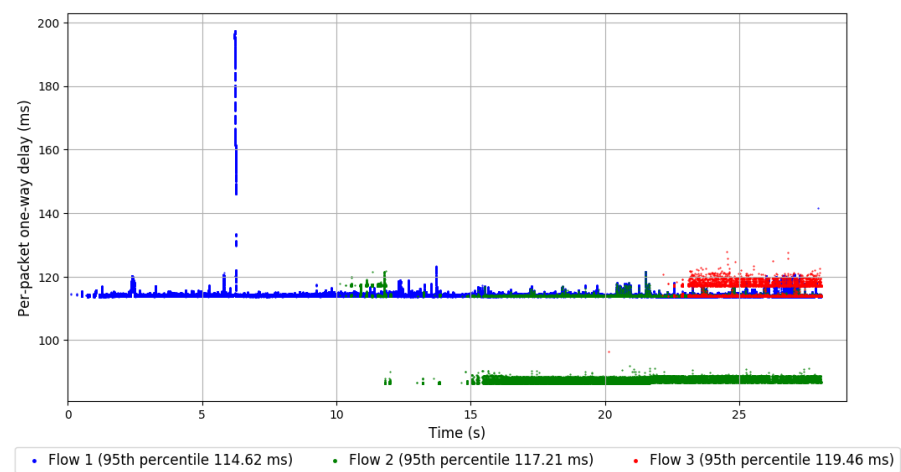
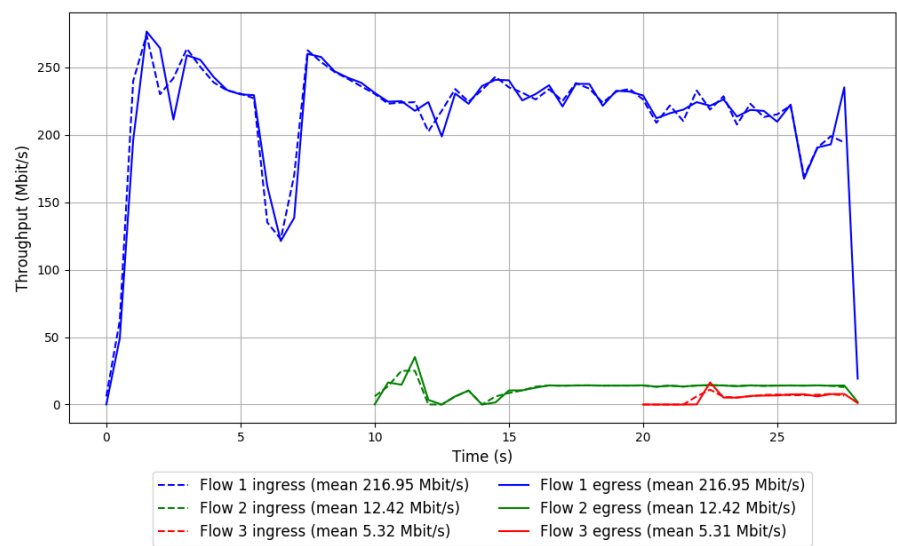


```
Run 9: Statistics of TaoVA-100x

Start at: 2017-12-01 00:05:57
End at: 2017-12-01 00:06:27

# Below is generated by plot.py at 2017-12-01 01:52:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 226.17 Mbit/s
95th percentile per-packet one-way delay: 114.695 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 216.95 Mbit/s
95th percentile per-packet one-way delay: 114.621 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 12.42 Mbit/s
95th percentile per-packet one-way delay: 117.213 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 5.31 Mbit/s
95th percentile per-packet one-way delay: 119.461 ms
Loss rate: 0.03%
```


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

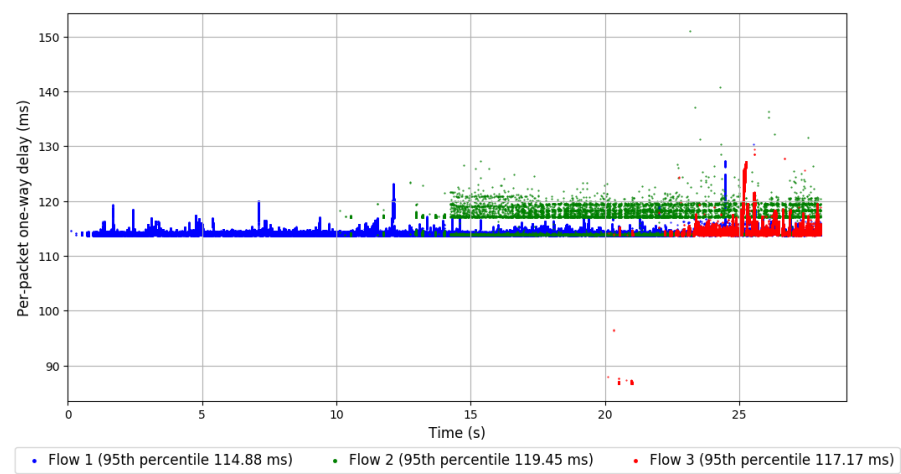
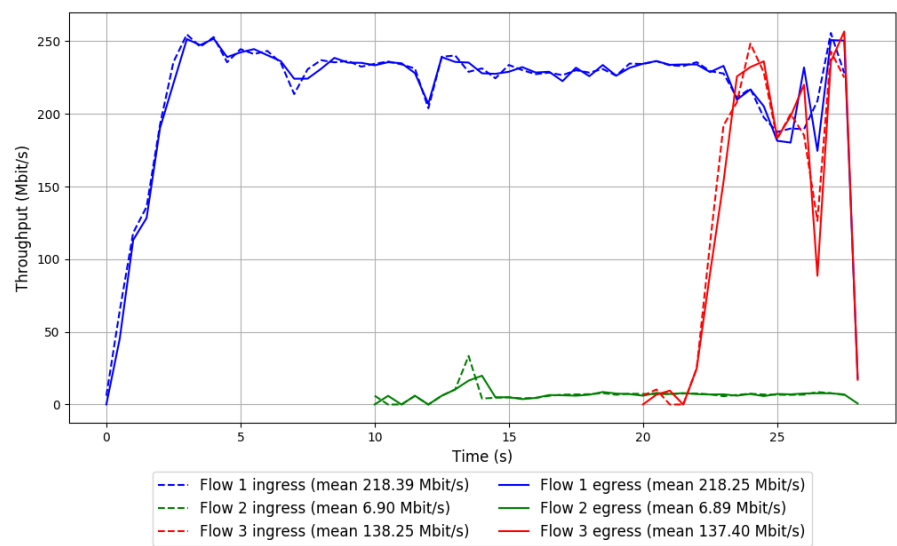


```
Run 10: Statistics of TaoVA-100x

Start at: 2017-12-01 00:18:37
End at: 2017-12-01 00:19:07

# Below is generated by plot.py at 2017-12-01 01:53:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 261.68 Mbit/s
95th percentile per-packet one-way delay: 115.351 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 218.25 Mbit/s
95th percentile per-packet one-way delay: 114.880 ms
Loss rate: 0.16%
-- Flow 2:
Average throughput: 6.89 Mbit/s
95th percentile per-packet one-way delay: 119.448 ms
Loss rate: 0.23%
-- Flow 3:
Average throughput: 137.40 Mbit/s
95th percentile per-packet one-way delay: 117.167 ms
Loss rate: 0.58%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2017-11-30 22:21:28

End at: 2017-11-30 22:21:58

Below is generated by plot.py at 2017-12-01 01:53:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 83.91 Mbit/s

95th percentile per-packet one-way delay: 91.139 ms

Loss rate: 0.29%

-- Flow 1:

Average throughput: 32.47 Mbit/s

95th percentile per-packet one-way delay: 90.141 ms

Loss rate: 0.74%

-- Flow 2:

Average throughput: 49.65 Mbit/s

95th percentile per-packet one-way delay: 90.223 ms

Loss rate: 0.00%

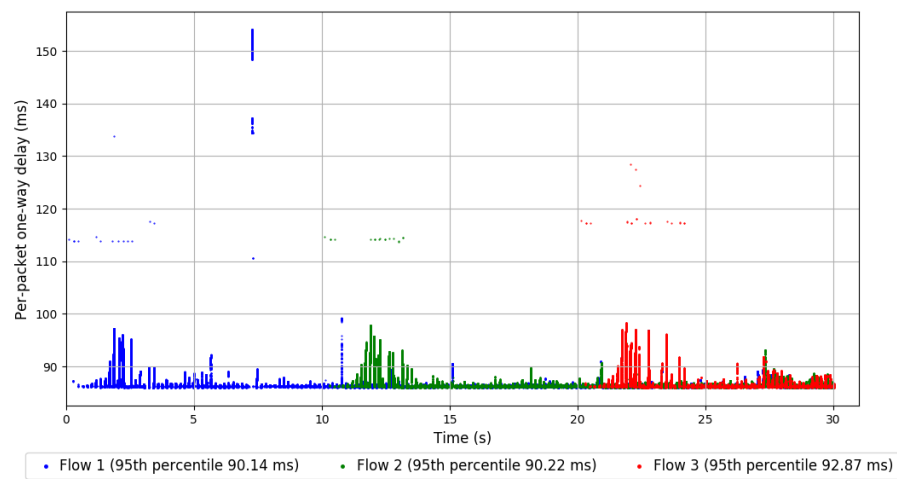
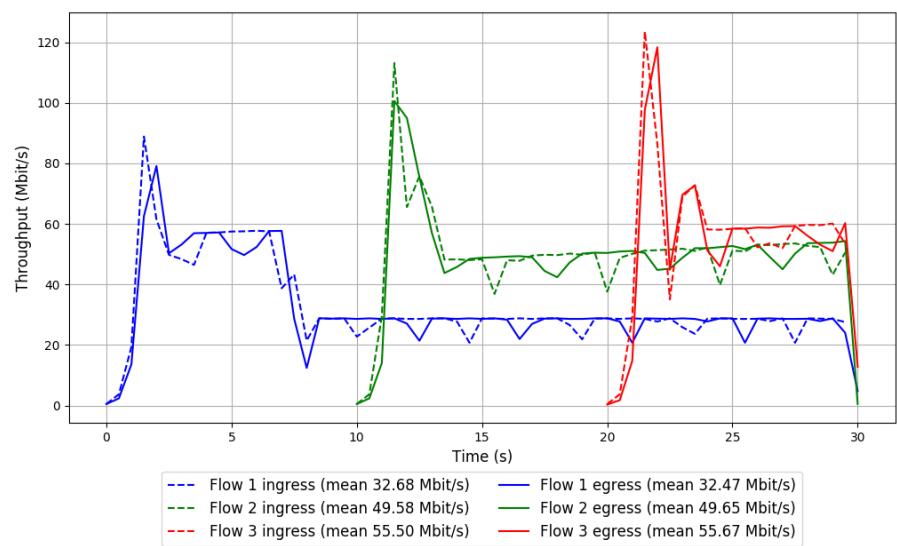
-- Flow 3:

Average throughput: 55.67 Mbit/s

95th percentile per-packet one-way delay: 92.873 ms

Loss rate: 0.00%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2017-11-30 22:34:10

End at: 2017-11-30 22:34:40

Below is generated by plot.py at 2017-12-01 01:53:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 36.01 Mbit/s

95th percentile per-packet one-way delay: 91.315 ms

Loss rate: 0.61%

-- Flow 1:

Average throughput: 9.50 Mbit/s

95th percentile per-packet one-way delay: 86.993 ms

Loss rate: 0.66%

-- Flow 2:

Average throughput: 2.66 Mbit/s

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

Loss rate: 0.81%

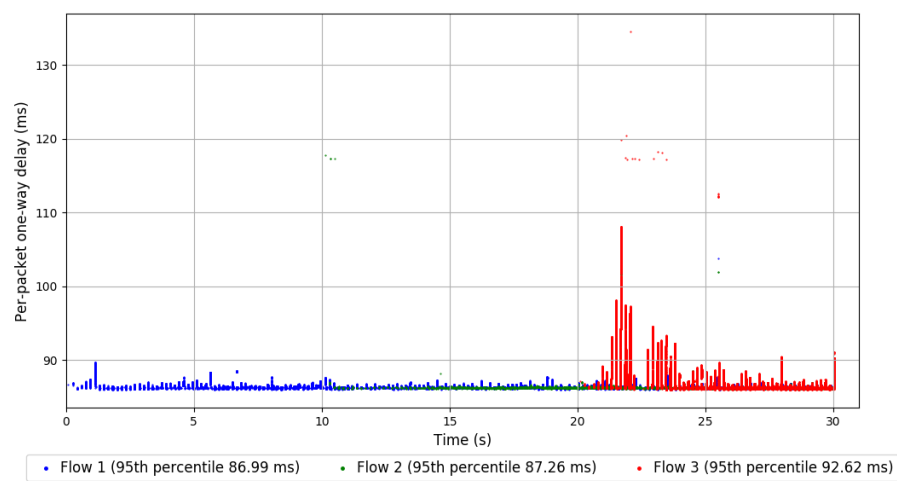
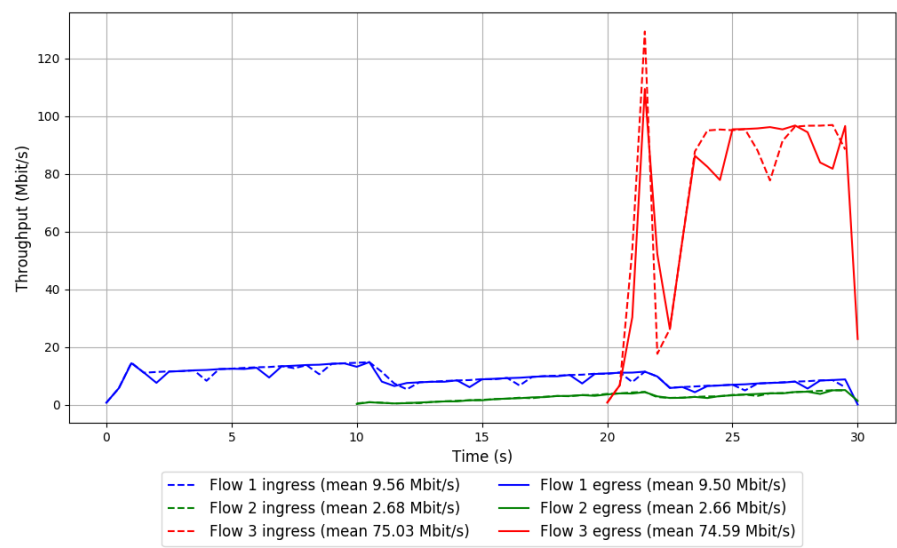
-- Flow 3:

Average throughput: 74.59 Mbit/s

95th percentile per-packet one-way delay: 92.622 ms

Loss rate: 0.58%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2017-11-30 22:46:50

End at: 2017-11-30 22:47:20

Below is generated by plot.py at 2017-12-01 01:53:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 68.31 Mbit/s

95th percentile per-packet one-way delay: 123.563 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 6.96 Mbit/s

95th percentile per-packet one-way delay: 115.534 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 69.62 Mbit/s

95th percentile per-packet one-way delay: 121.802 ms

Loss rate: 0.03%

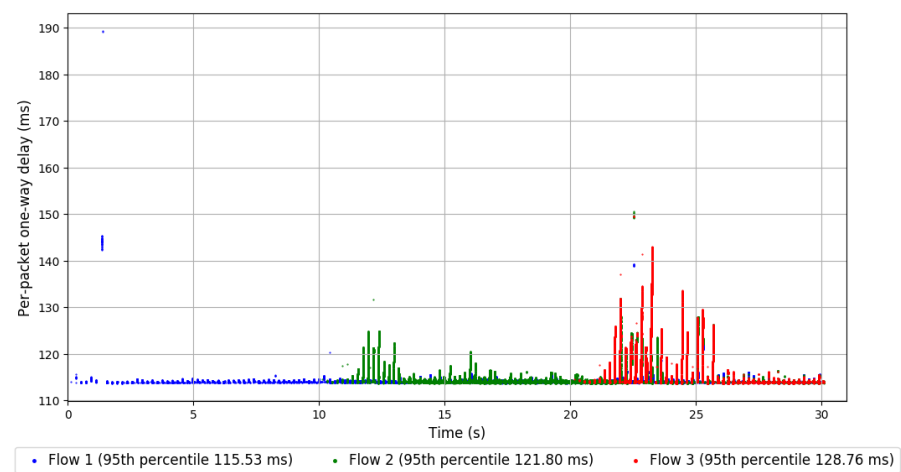
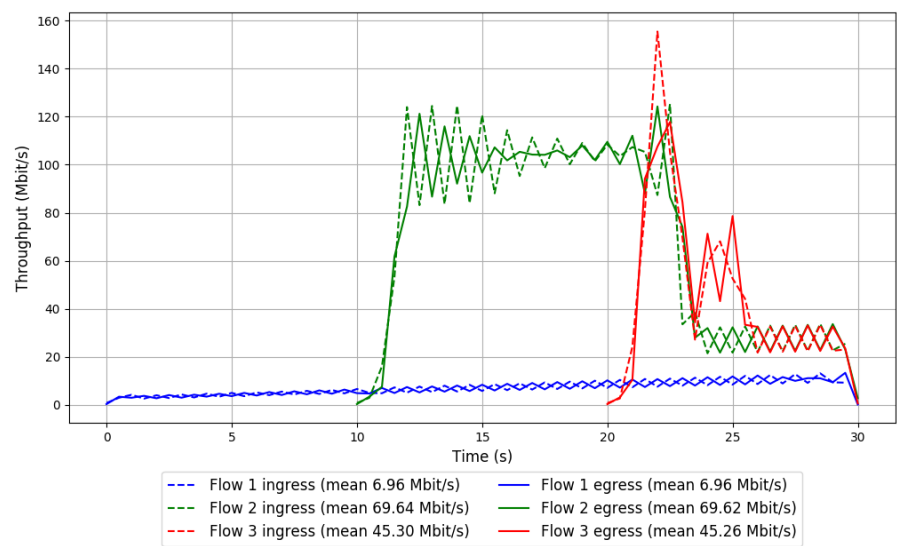
-- Flow 3:

Average throughput: 45.26 Mbit/s

95th percentile per-packet one-way delay: 128.757 ms

Loss rate: 0.10%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2017-11-30 22:59:55

End at: 2017-11-30 23:00:25

Below is generated by plot.py at 2017-12-01 01:53:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 72.86 Mbit/s

95th percentile per-packet one-way delay: 120.162 ms

Loss rate: 1.13%

-- Flow 1:

Average throughput: 17.58 Mbit/s

95th percentile per-packet one-way delay: 115.526 ms

Loss rate: 1.68%

-- Flow 2:

Average throughput: 44.62 Mbit/s

95th percentile per-packet one-way delay: 118.268 ms

Loss rate: 1.74%

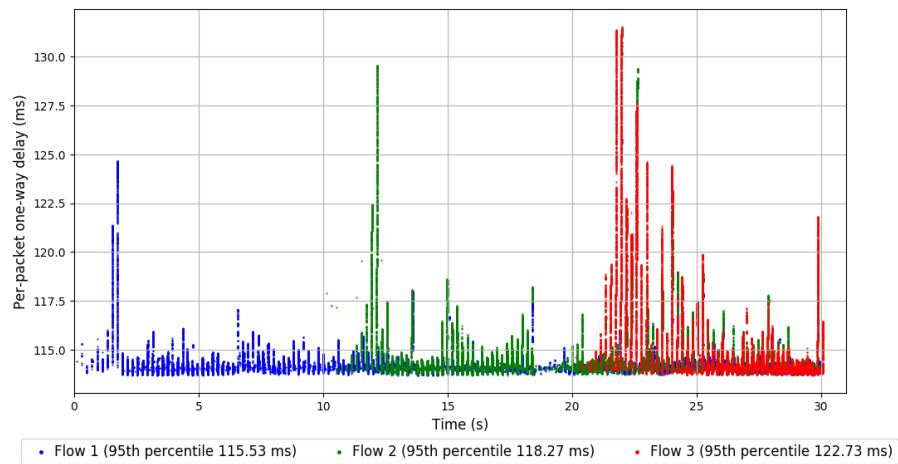
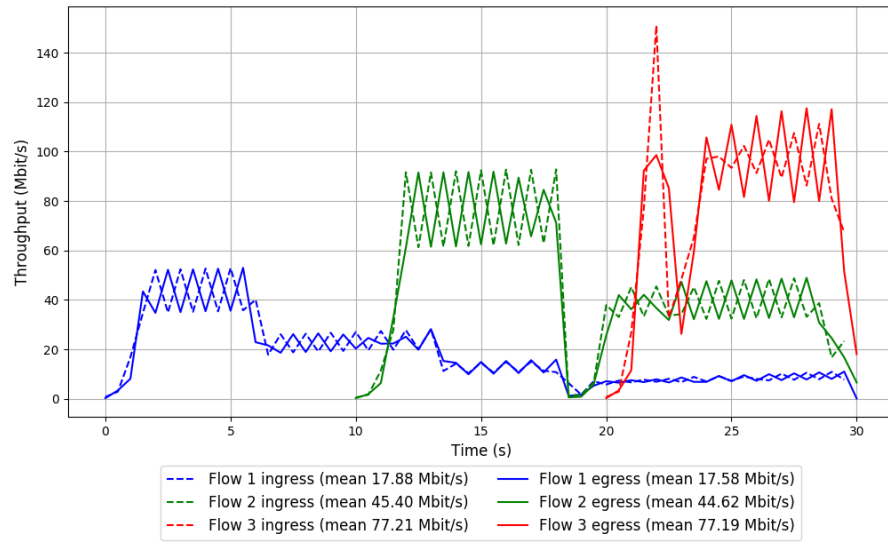
-- Flow 3:

Average throughput: 77.19 Mbit/s

95th percentile per-packet one-way delay: 122.735 ms

Loss rate: 0.03%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2017-11-30 23:12:54

End at: 2017-11-30 23:13:24

Below is generated by plot.py at 2017-12-01 01:53:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 37.66 Mbit/s

95th percentile per-packet one-way delay: 120.043 ms

Loss rate: 0.96%

-- Flow 1:

Average throughput: 7.87 Mbit/s

95th percentile per-packet one-way delay: 114.995 ms

Loss rate: 1.09%

-- Flow 2:

Average throughput: 31.27 Mbit/s

95th percentile per-packet one-way delay: 121.111 ms

Loss rate: 0.17%

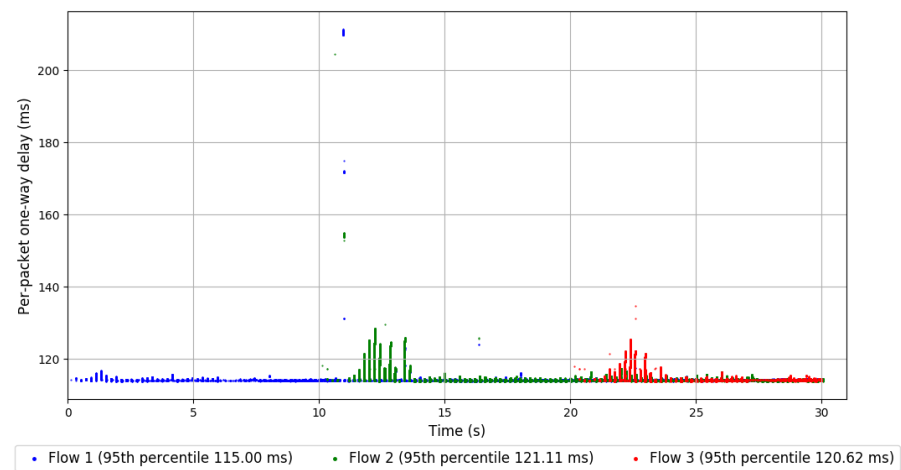
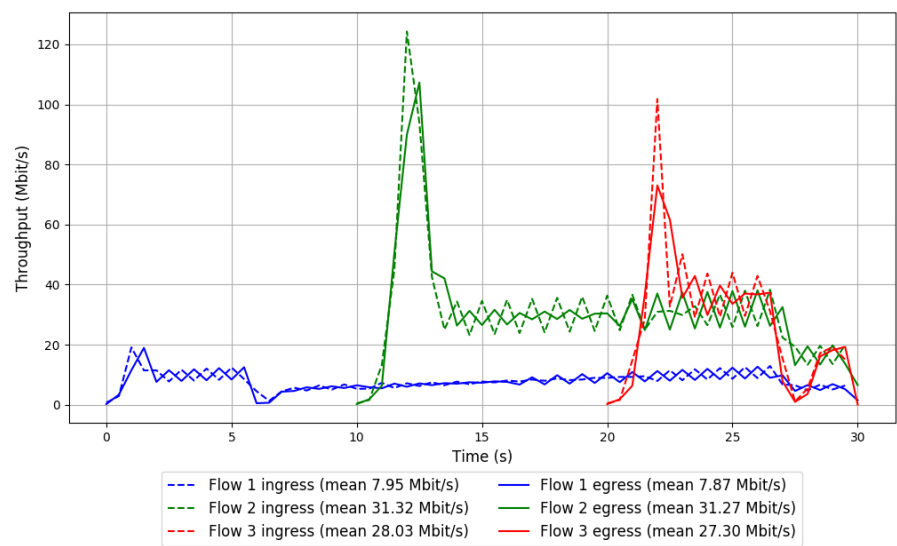
-- Flow 3:

Average throughput: 27.30 Mbit/s

95th percentile per-packet one-way delay: 120.621 ms

Loss rate: 2.63%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2017-11-30 23:25:17

End at: 2017-11-30 23:25:47

Below is generated by plot.py at 2017-12-01 01:53:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 40.64 Mbit/s

95th percentile per-packet one-way delay: 115.513 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 3.83 Mbit/s

95th percentile per-packet one-way delay: 114.648 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 54.77 Mbit/s

95th percentile per-packet one-way delay: 115.559 ms

Loss rate: 0.00%

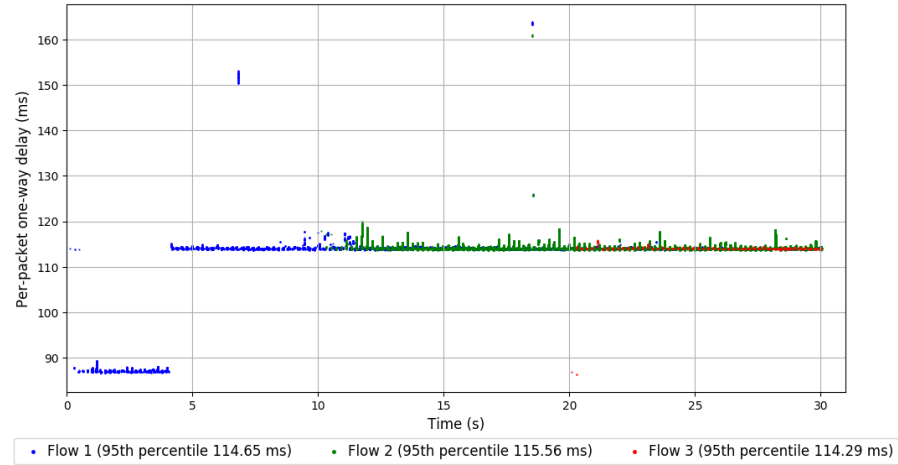
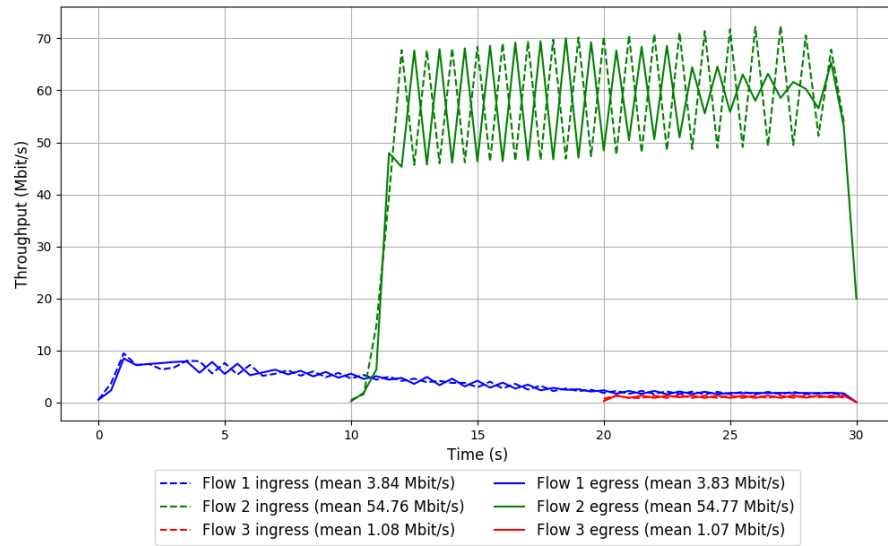
-- Flow 3:

Average throughput: 1.07 Mbit/s

95th percentile per-packet one-way delay: 114.291 ms

Loss rate: 0.00%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2017-11-30 23:37:40

End at: 2017-11-30 23:38:10

Below is generated by plot.py at 2017-12-01 01:53:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 52.57 Mbit/s

95th percentile per-packet one-way delay: 122.863 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.65 Mbit/s

95th percentile per-packet one-way delay: 120.665 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 76.03 Mbit/s

95th percentile per-packet one-way delay: 122.895 ms

Loss rate: 0.00%

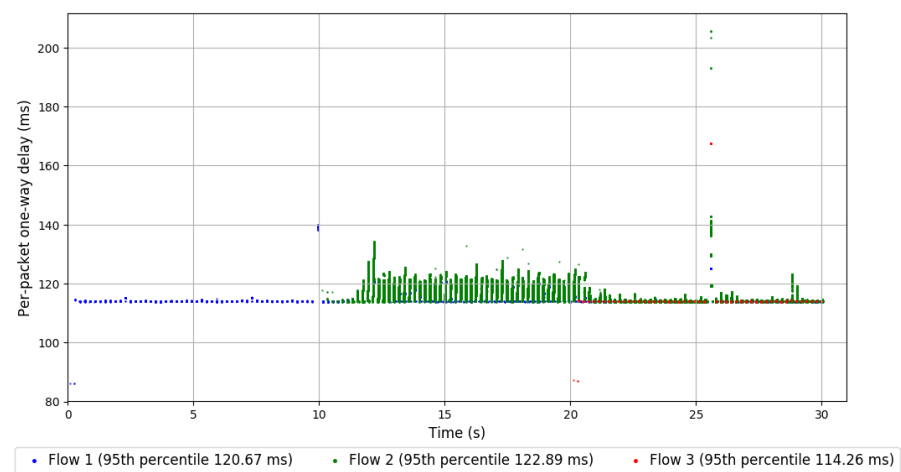
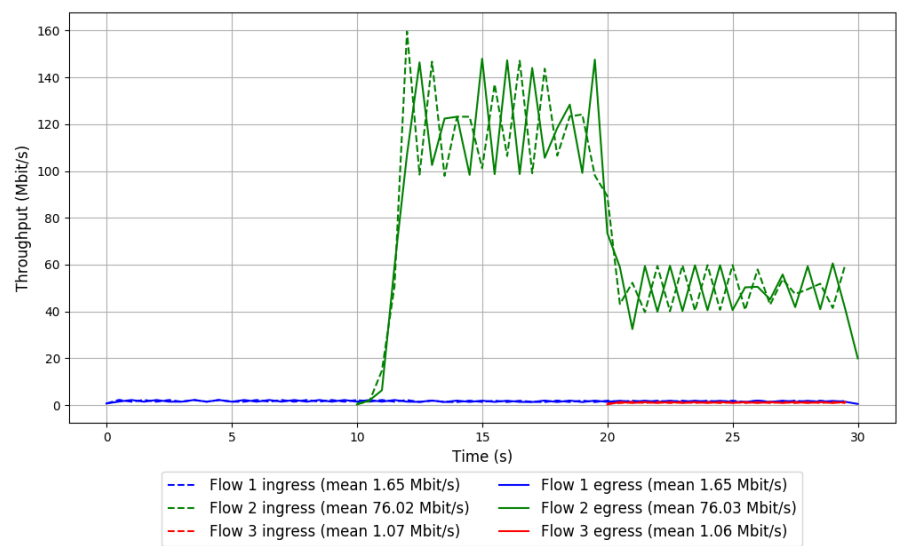
-- Flow 3:

Average throughput: 1.06 Mbit/s

95th percentile per-packet one-way delay: 114.259 ms

Loss rate: 0.00%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2017-11-30 23:50:21

End at: 2017-11-30 23:50:51

Below is generated by plot.py at 2017-12-01 01:53:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 69.02 Mbit/s

95th percentile per-packet one-way delay: 121.910 ms

Loss rate: 0.53%

-- Flow 1:

Average throughput: 23.31 Mbit/s

95th percentile per-packet one-way delay: 117.218 ms

Loss rate: 1.56%

-- Flow 2:

Average throughput: 36.30 Mbit/s

95th percentile per-packet one-way delay: 120.855 ms

Loss rate: 0.00%

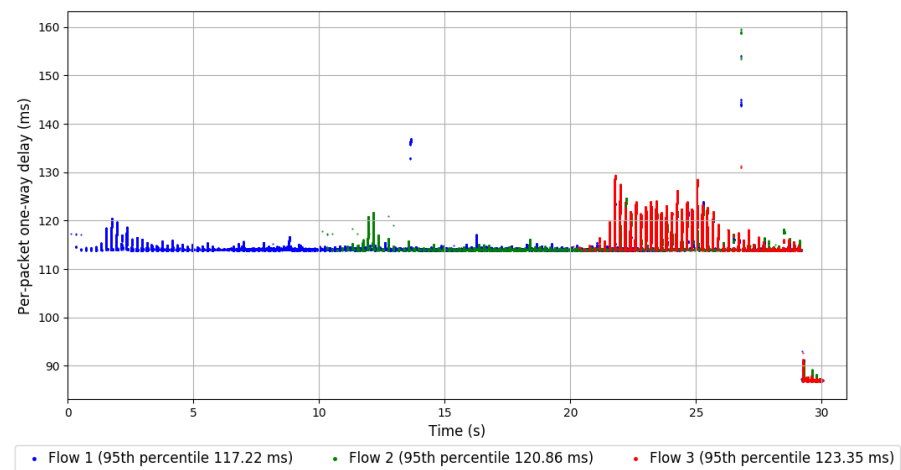
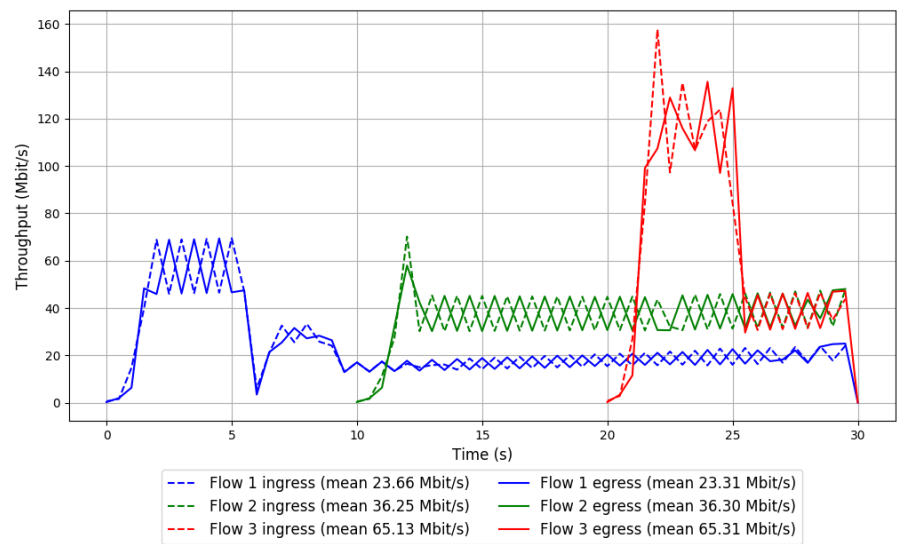
-- Flow 3:

Average throughput: 65.31 Mbit/s

95th percentile per-packet one-way delay: 123.354 ms

Loss rate: 0.00%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2017-12-01 00:02:25

End at: 2017-12-01 00:02:55

Below is generated by plot.py at 2017-12-01 01:53:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 80.43 Mbit/s

95th percentile per-packet one-way delay: 126.036 ms

Loss rate: 1.00%

-- Flow 1:

Average throughput: 35.89 Mbit/s

95th percentile per-packet one-way delay: 125.866 ms

Loss rate: 1.19%

-- Flow 2:

Average throughput: 66.59 Mbit/s

95th percentile per-packet one-way delay: 126.141 ms

Loss rate: 0.85%

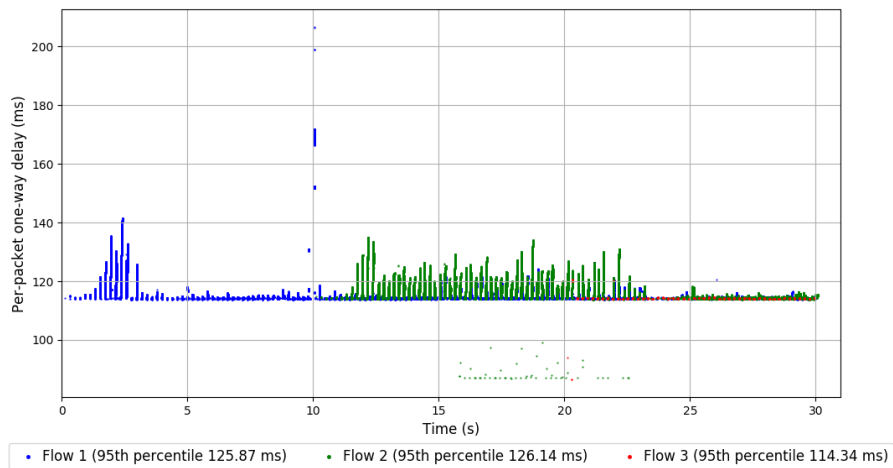
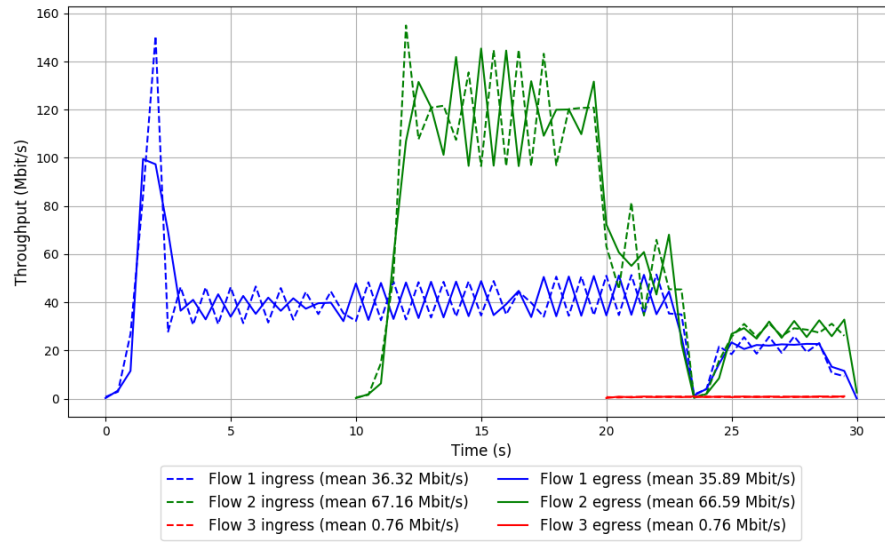
-- Flow 3:

Average throughput: 0.76 Mbit/s

95th percentile per-packet one-way delay: 114.338 ms

Loss rate: 0.16%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2017-12-01 00:15:02

End at: 2017-12-01 00:15:32

Below is generated by plot.py at 2017-12-01 01:53:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 106.32 Mbit/s

95th percentile per-packet one-way delay: 122.074 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 50.54 Mbit/s

95th percentile per-packet one-way delay: 125.934 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 56.21 Mbit/s

95th percentile per-packet one-way delay: 114.894 ms

Loss rate: 0.00%

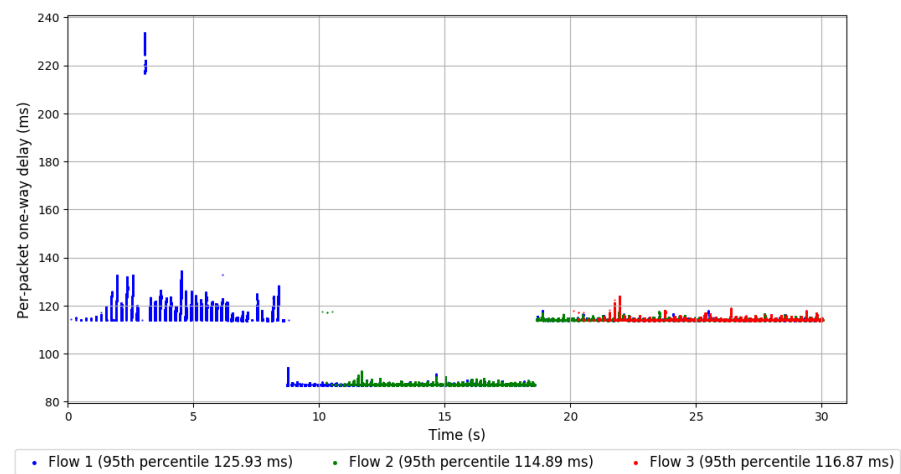
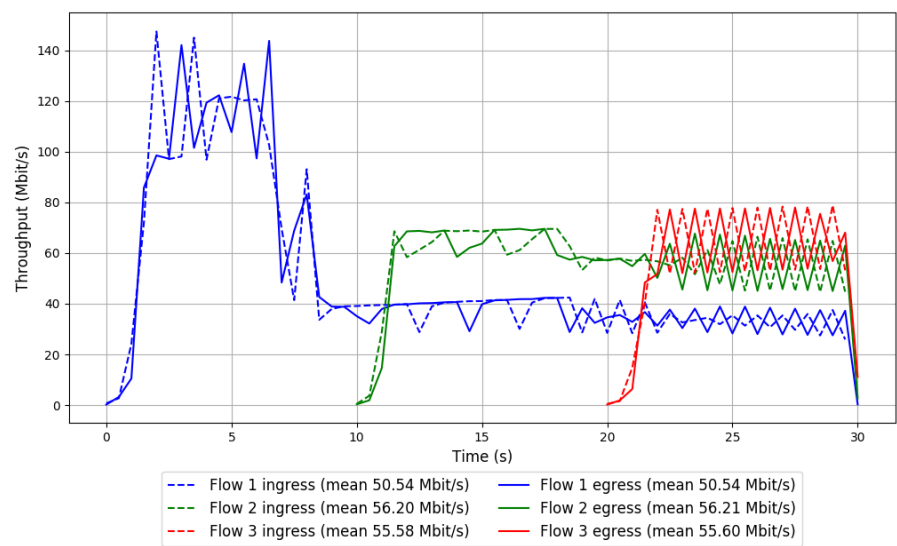
-- Flow 3:

Average throughput: 55.60 Mbit/s

95th percentile per-packet one-way delay: 116.872 ms

Loss rate: 0.00%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2017-11-30 22:25:49

End at: 2017-11-30 22:26:19

Below is generated by plot.py at 2017-12-01 01:53:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 273.75 Mbit/s

95th percentile per-packet one-way delay: 330.245 ms

Loss rate: 3.32%

-- Flow 1:

Average throughput: 226.37 Mbit/s

95th percentile per-packet one-way delay: 335.543 ms

Loss rate: 3.75%

-- Flow 2:

Average throughput: 58.53 Mbit/s

95th percentile per-packet one-way delay: 225.943 ms

Loss rate: 1.38%

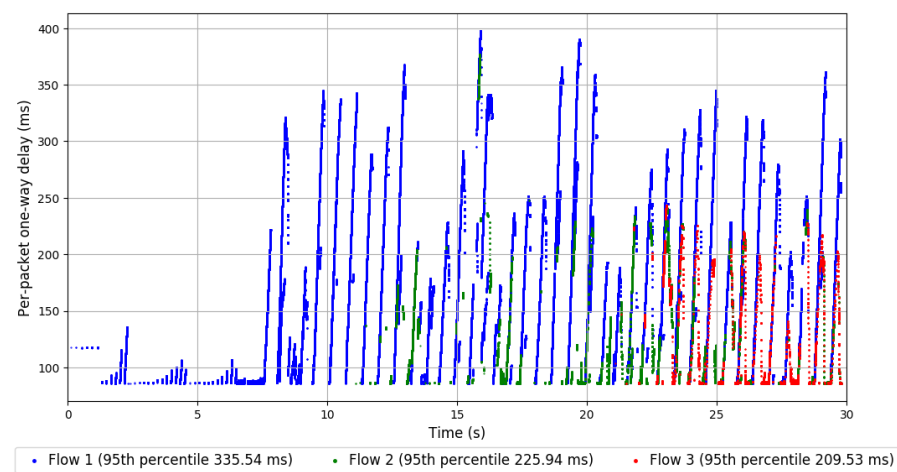
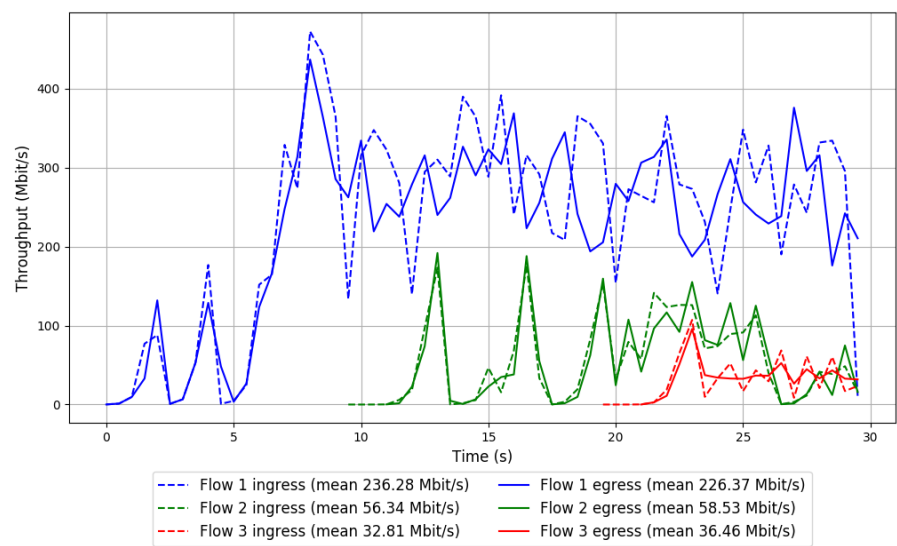
-- Flow 3:

Average throughput: 36.46 Mbit/s

95th percentile per-packet one-way delay: 209.529 ms

Loss rate: 0.48%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2017-11-30 22:38:32

End at: 2017-11-30 22:39:02

Below is generated by plot.py at 2017-12-01 01:53:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 213.14 Mbit/s

95th percentile per-packet one-way delay: 176.809 ms

Loss rate: 1.69%

-- Flow 1:

Average throughput: 177.69 Mbit/s

95th percentile per-packet one-way delay: 168.050 ms

Loss rate: 1.27%

-- Flow 2:

Average throughput: 46.32 Mbit/s

95th percentile per-packet one-way delay: 236.696 ms

Loss rate: 4.34%

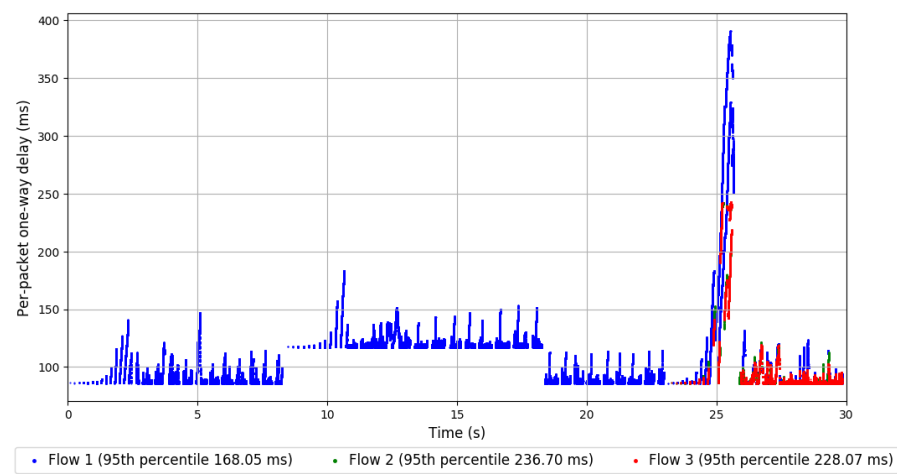
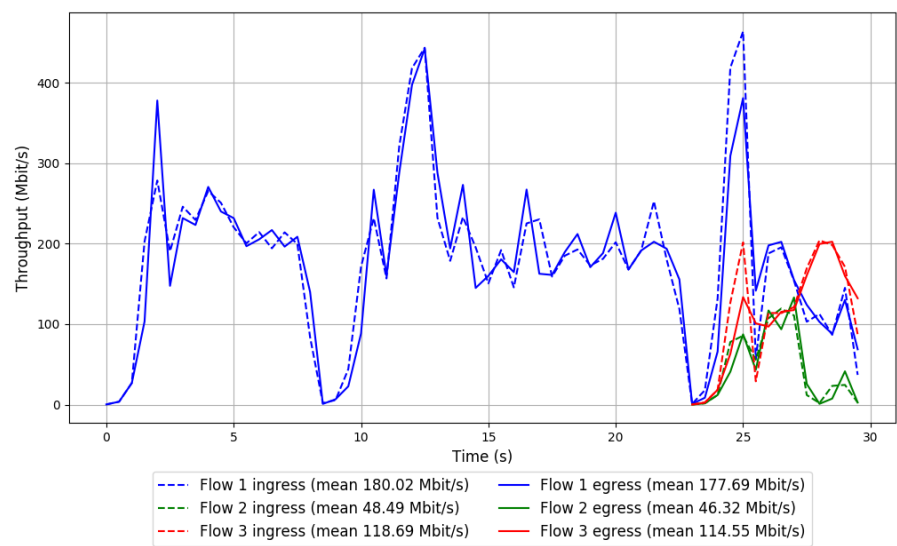
-- Flow 3:

Average throughput: 114.55 Mbit/s

95th percentile per-packet one-way delay: 228.070 ms

Loss rate: 3.48%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2017-11-30 22:51:34

End at: 2017-11-30 22:52:04

Below is generated by plot.py at 2017-12-01 01:54:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 279.21 Mbit/s

95th percentile per-packet one-way delay: 209.997 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 199.01 Mbit/s

95th percentile per-packet one-way delay: 201.334 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 96.17 Mbit/s

95th percentile per-packet one-way delay: 236.886 ms

Loss rate: 0.00%

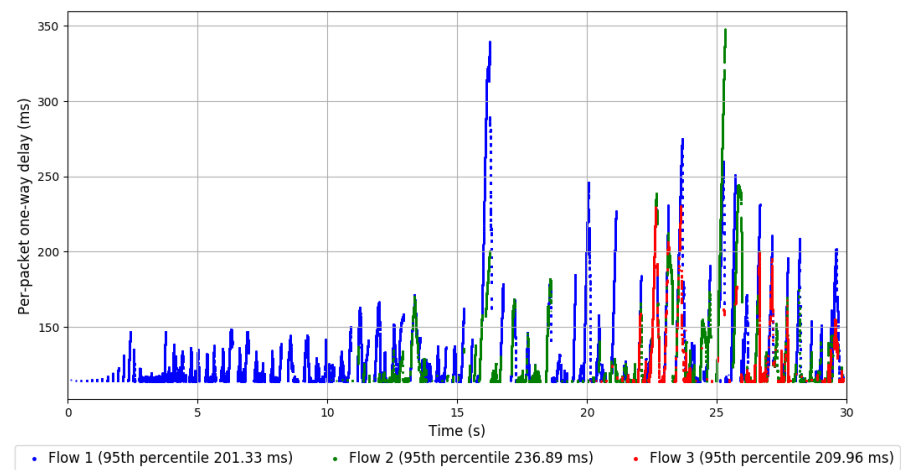
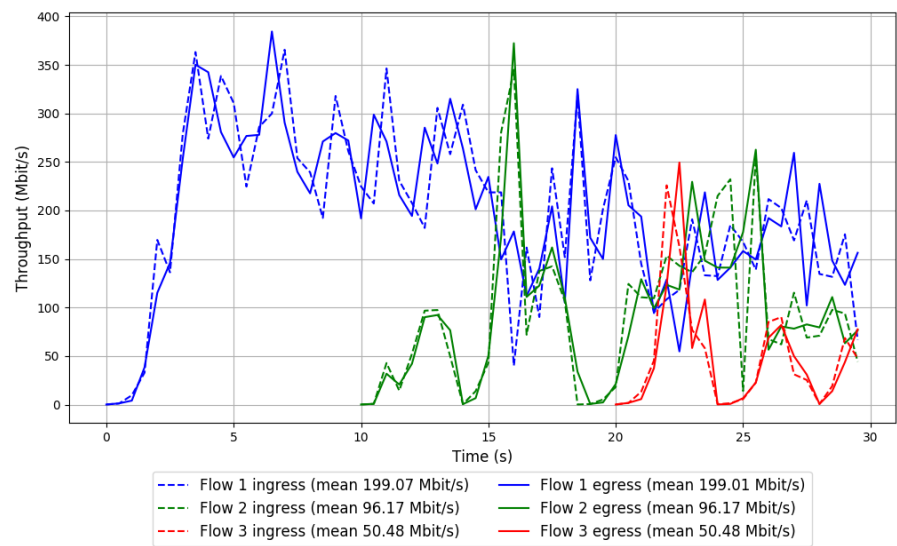
-- Flow 3:

Average throughput: 50.48 Mbit/s

95th percentile per-packet one-way delay: 209.955 ms

Loss rate: 0.00%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2017-11-30 23:04:31

End at: 2017-11-30 23:05:01

Below is generated by plot.py at 2017-12-01 01:54:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 261.04 Mbit/s

95th percentile per-packet one-way delay: 229.305 ms

Loss rate: 1.40%

-- Flow 1:

Average throughput: 151.80 Mbit/s

95th percentile per-packet one-way delay: 194.894 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 144.81 Mbit/s

95th percentile per-packet one-way delay: 264.971 ms

Loss rate: 2.42%

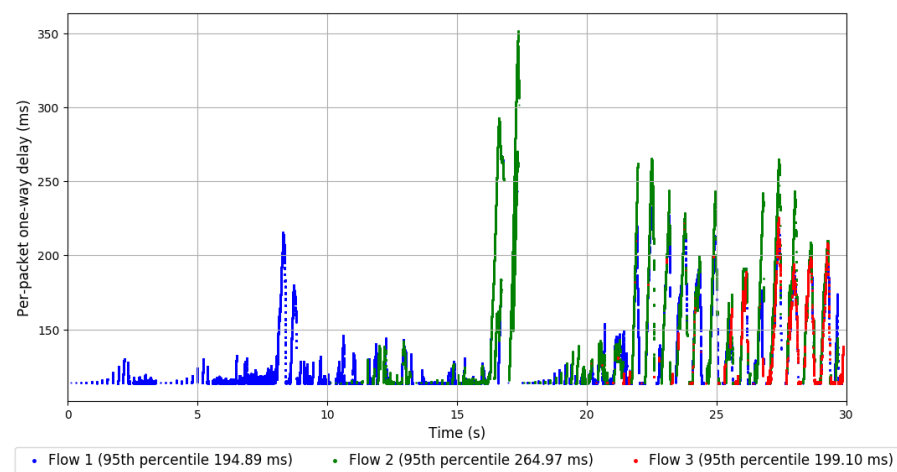
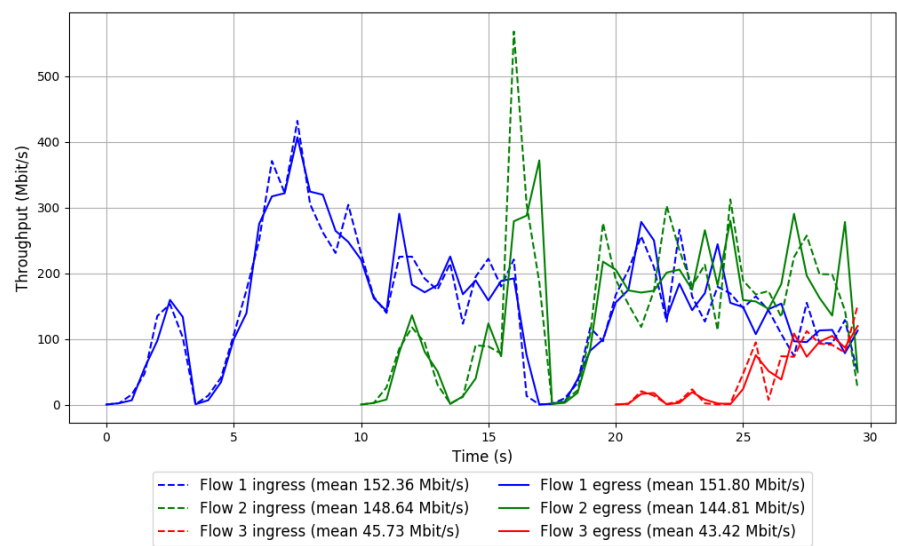
-- Flow 3:

Average throughput: 43.42 Mbit/s

95th percentile per-packet one-way delay: 199.096 ms

Loss rate: 5.21%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2017-11-30 23:17:15

End at: 2017-11-30 23:17:45

Below is generated by plot.py at 2017-12-01 01:54:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 300.32 Mbit/s

95th percentile per-packet one-way delay: 296.278 ms

Loss rate: 3.86%

-- Flow 1:

Average throughput: 168.64 Mbit/s

95th percentile per-packet one-way delay: 226.539 ms

Loss rate: 1.47%

-- Flow 2:

Average throughput: 191.83 Mbit/s

95th percentile per-packet one-way delay: 317.262 ms

Loss rate: 6.86%

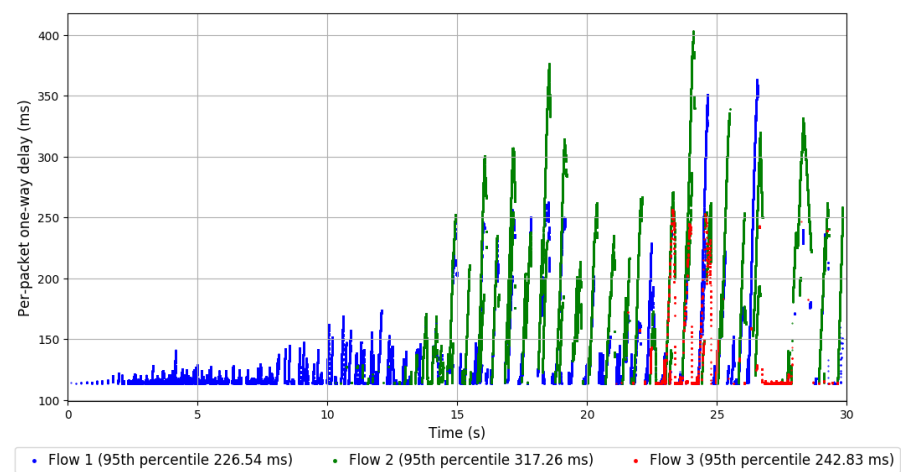
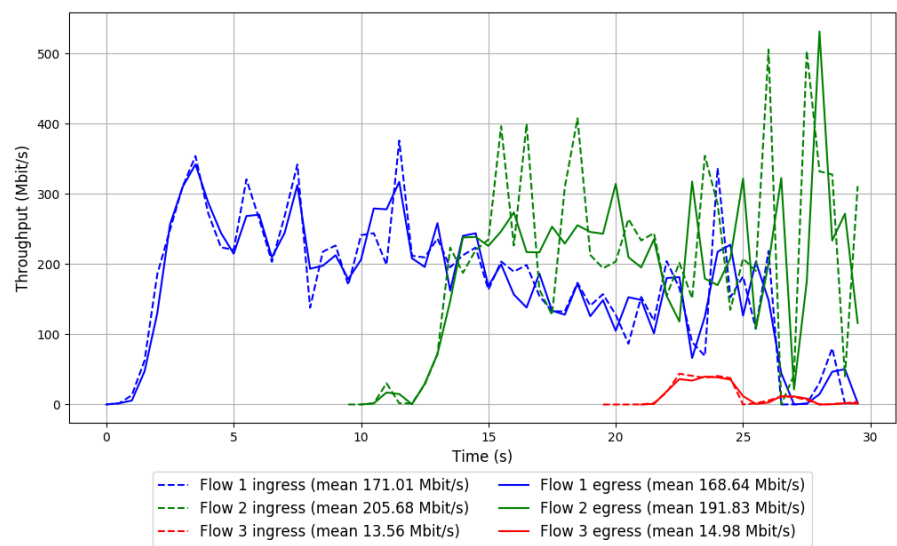
-- Flow 3:

Average throughput: 14.98 Mbit/s

95th percentile per-packet one-way delay: 242.827 ms

Loss rate: 3.23%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2017-11-30 23:29:40

End at: 2017-11-30 23:30:10

Below is generated by plot.py at 2017-12-01 01:54:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 187.87 Mbit/s

95th percentile per-packet one-way delay: 244.043 ms

Loss rate: 0.18%

-- Flow 1:

Average throughput: 84.21 Mbit/s

95th percentile per-packet one-way delay: 267.411 ms

Loss rate: 0.23%

-- Flow 2:

Average throughput: 146.31 Mbit/s

95th percentile per-packet one-way delay: 189.132 ms

Loss rate: 0.15%

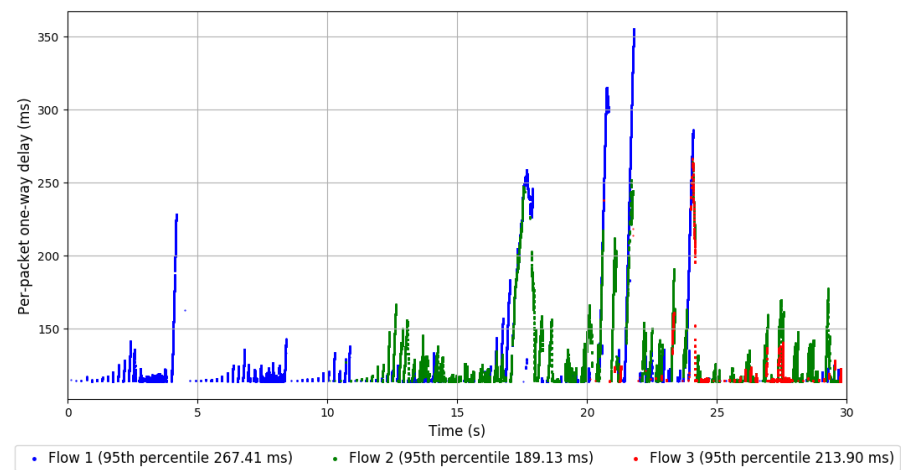
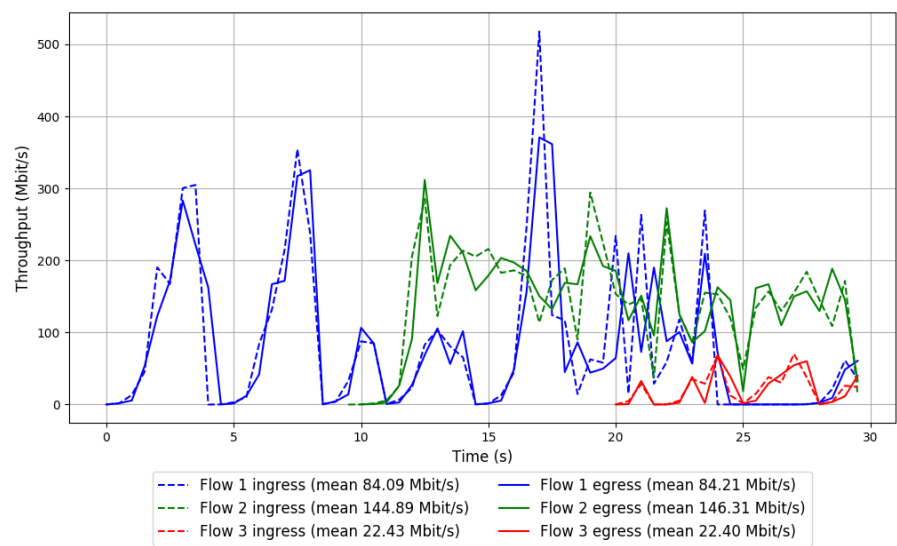
-- Flow 3:

Average throughput: 22.40 Mbit/s

95th percentile per-packet one-way delay: 213.902 ms

Loss rate: 0.04%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2017-11-30 23:42:10

End at: 2017-11-30 23:42:40

Below is generated by plot.py at 2017-12-01 01:56:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 257.45 Mbit/s

95th percentile per-packet one-way delay: 203.242 ms

Loss rate: 1.41%

-- Flow 1:

Average throughput: 136.87 Mbit/s

95th percentile per-packet one-way delay: 226.147 ms

Loss rate: 2.43%

-- Flow 2:

Average throughput: 133.13 Mbit/s

95th percentile per-packet one-way delay: 188.644 ms

Loss rate: 0.00%

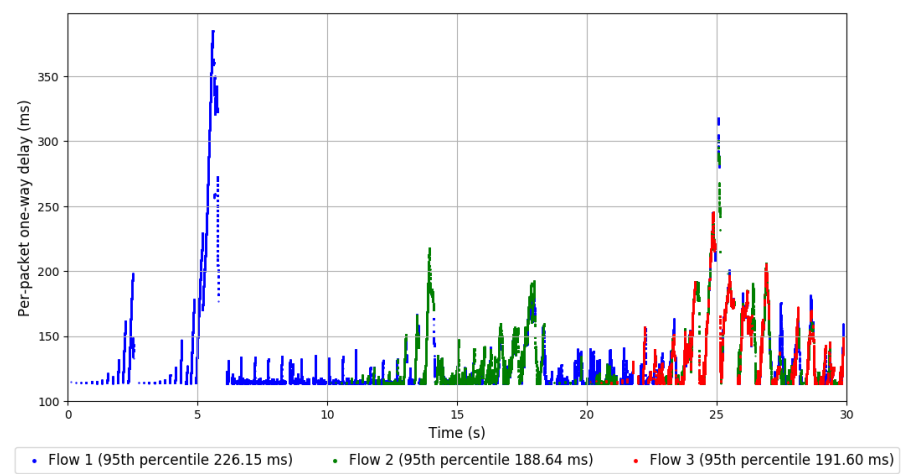
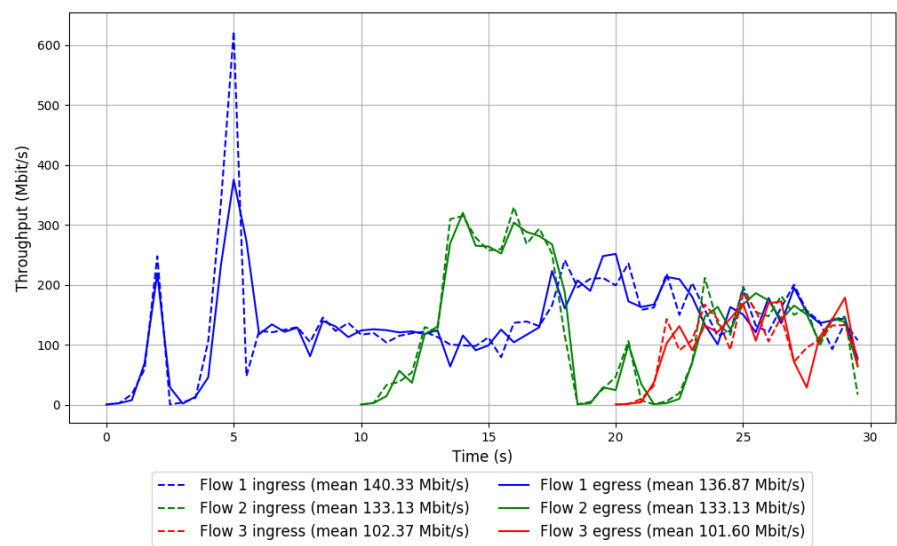
-- Flow 3:

Average throughput: 101.60 Mbit/s

95th percentile per-packet one-way delay: 191.600 ms

Loss rate: 0.78%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2017-11-30 23:54:38

End at: 2017-11-30 23:55:08

Below is generated by plot.py at 2017-12-01 01:56:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 223.61 Mbit/s

95th percentile per-packet one-way delay: 178.230 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 180.27 Mbit/s

95th percentile per-packet one-way delay: 182.052 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 45.62 Mbit/s

95th percentile per-packet one-way delay: 158.430 ms

Loss rate: 0.28%

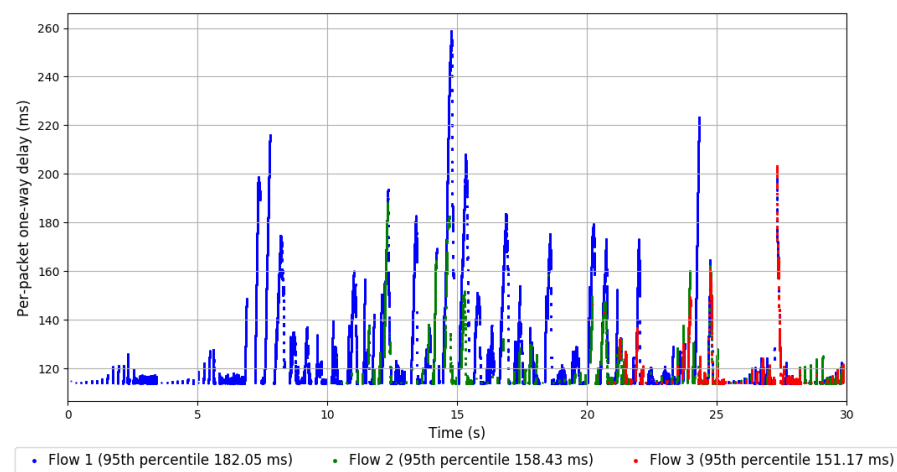
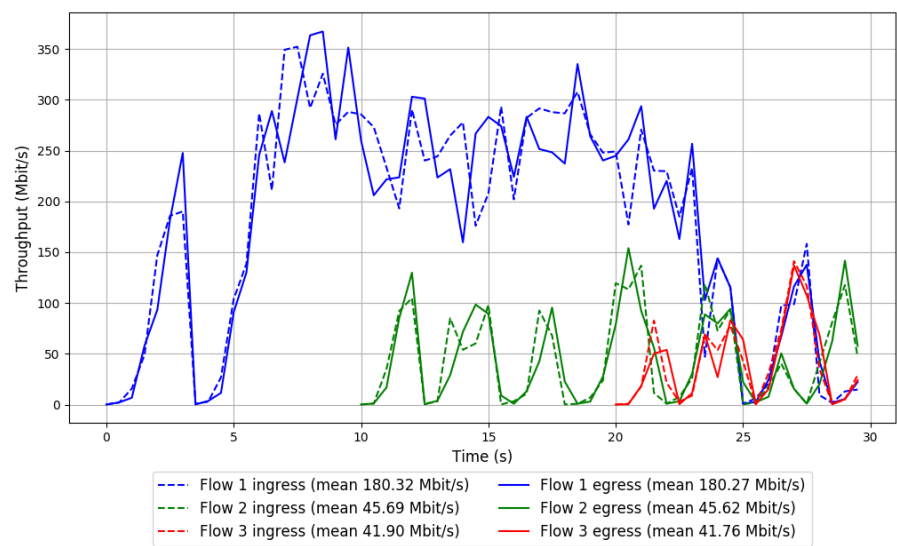
-- Flow 3:

Average throughput: 41.76 Mbit/s

95th percentile per-packet one-way delay: 151.173 ms

Loss rate: 0.63%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2017-12-01 00:07:04

End at: 2017-12-01 00:07:34

Below is generated by plot.py at 2017-12-01 01:58:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 322.12 Mbit/s

95th percentile per-packet one-way delay: 339.178 ms

Loss rate: 11.24%

-- Flow 1:

Average throughput: 243.75 Mbit/s

95th percentile per-packet one-way delay: 348.871 ms

Loss rate: 13.79%

-- Flow 2:

Average throughput: 78.15 Mbit/s

95th percentile per-packet one-way delay: 217.444 ms

Loss rate: 1.95%

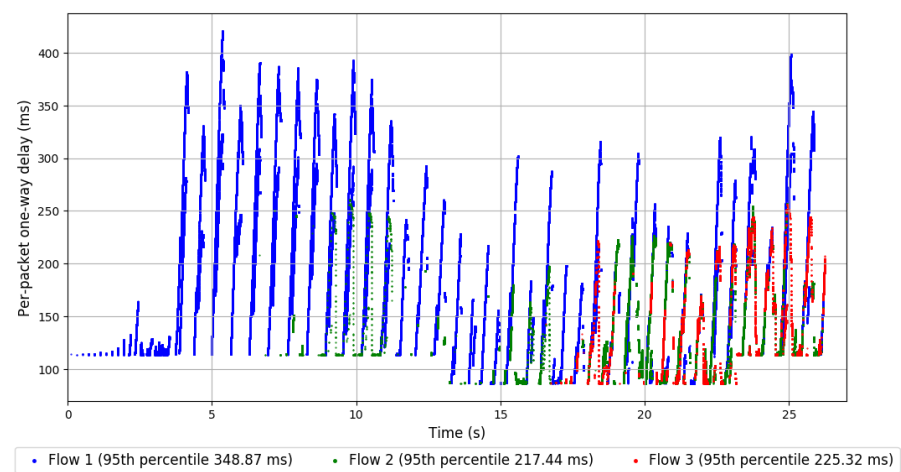
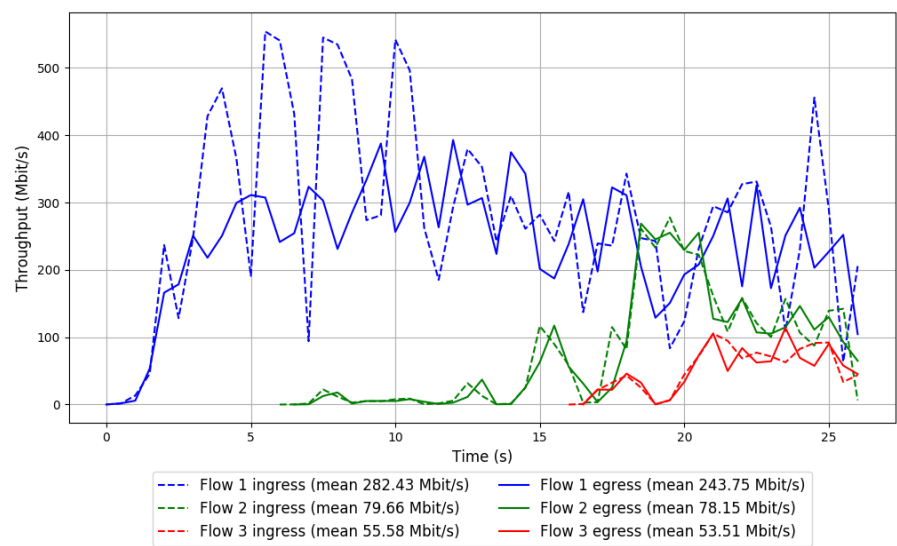
-- Flow 3:

Average throughput: 53.51 Mbit/s

95th percentile per-packet one-way delay: 225.321 ms

Loss rate: 3.14%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2017-12-01 00:19:47

End at: 2017-12-01 00:20:17

Below is generated by plot.py at 2017-12-01 01:58:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 278.53 Mbit/s

95th percentile per-packet one-way delay: 279.981 ms

Loss rate: 2.17%

-- Flow 1:

Average throughput: 142.88 Mbit/s

95th percentile per-packet one-way delay: 225.990 ms

Loss rate: 0.57%

-- Flow 2:

Average throughput: 174.18 Mbit/s

95th percentile per-packet one-way delay: 317.094 ms

Loss rate: 4.11%

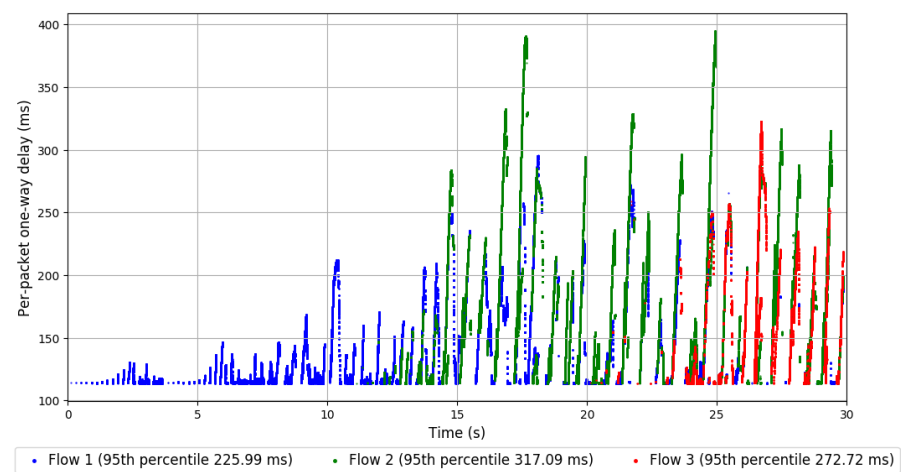
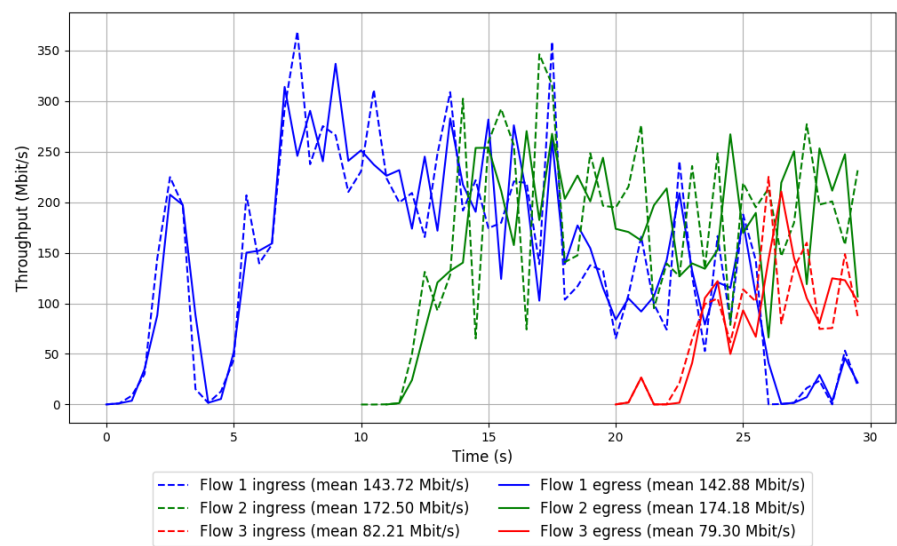
-- Flow 3:

Average throughput: 79.30 Mbit/s

95th percentile per-packet one-way delay: 272.721 ms

Loss rate: 2.50%

Run 10: Report of Verus — Data Link

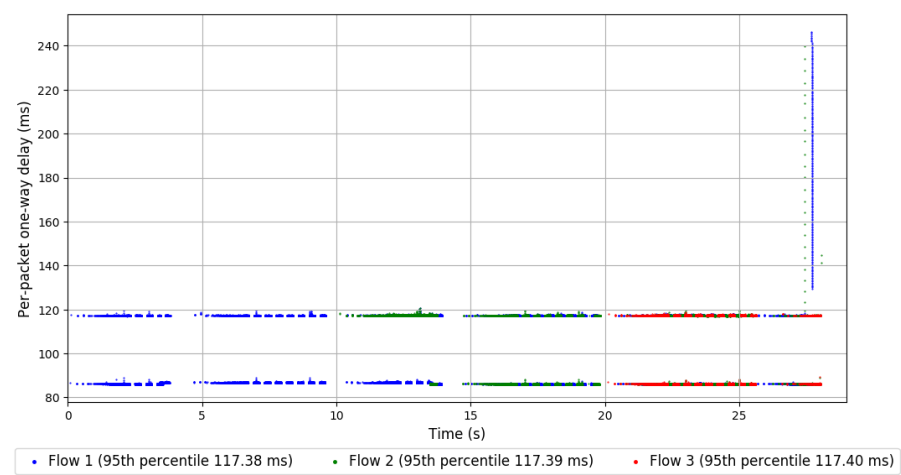
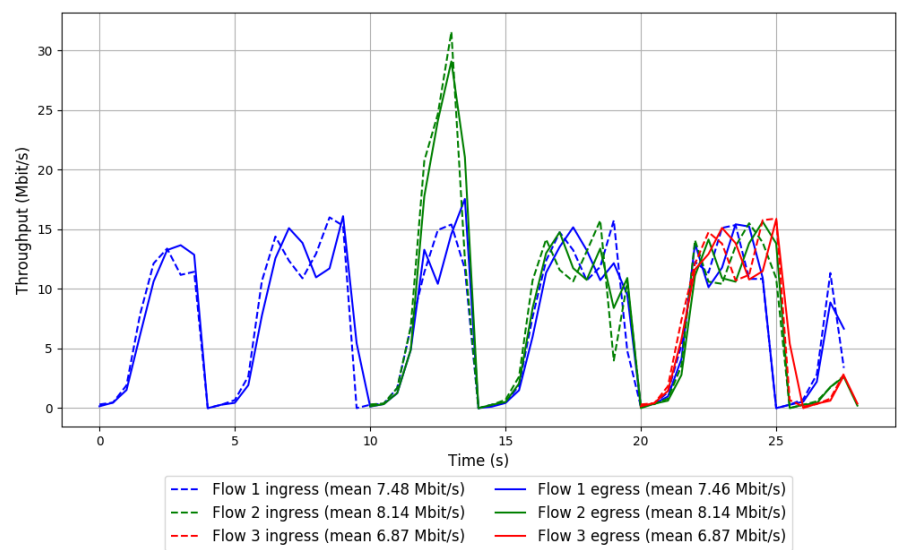


```
Run 1: Statistics of Copa

Start at: 2017-11-30 22:19:35
End at: 2017-11-30 22:20:05

# Below is generated by plot.py at 2017-12-01 01:58:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 14.53 Mbit/s
95th percentile per-packet one-way delay: 117.386 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.46 Mbit/s
95th percentile per-packet one-way delay: 117.379 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 8.14 Mbit/s
95th percentile per-packet one-way delay: 117.392 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 6.87 Mbit/s
95th percentile per-packet one-way delay: 117.398 ms
Loss rate: 0.03%
```

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2017-11-30 22:32:11

End at: 2017-11-30 22:32:41

Below is generated by plot.py at 2017-12-01 01:58:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.65 Mbit/s

95th percentile per-packet one-way delay: 86.996 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 67.32 Mbit/s

95th percentile per-packet one-way delay: 86.896 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 6.71 Mbit/s

95th percentile per-packet one-way delay: 117.615 ms

Loss rate: 0.00%

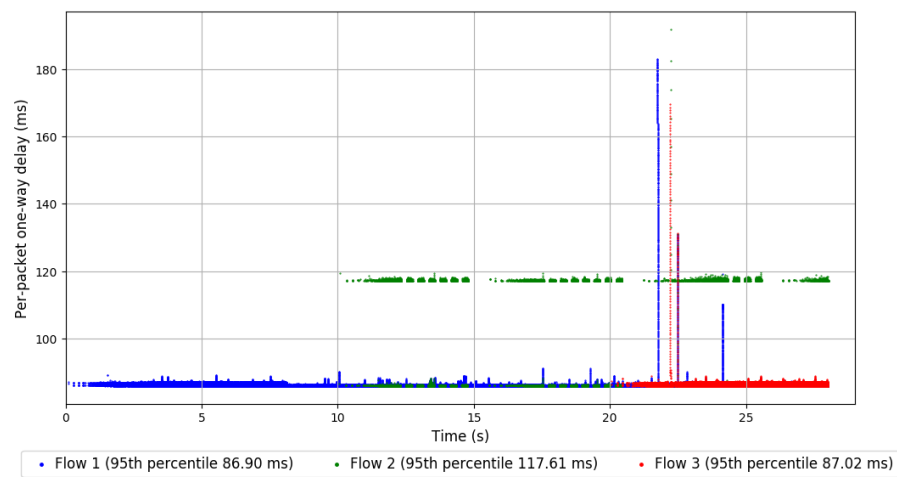
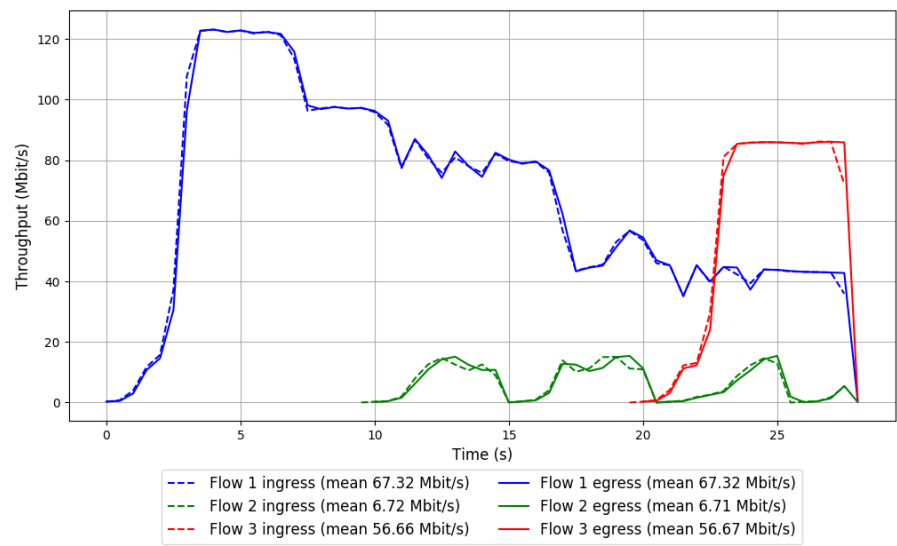
-- Flow 3:

Average throughput: 56.67 Mbit/s

95th percentile per-packet one-way delay: 87.015 ms

Loss rate: 0.00%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2017-11-30 22:44:46

End at: 2017-11-30 22:45:16

Below is generated by plot.py at 2017-12-01 01:58:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 106.58 Mbit/s

95th percentile per-packet one-way delay: 117.320 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 68.16 Mbit/s

95th percentile per-packet one-way delay: 114.303 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 53.10 Mbit/s

95th percentile per-packet one-way delay: 117.437 ms

Loss rate: 0.00%

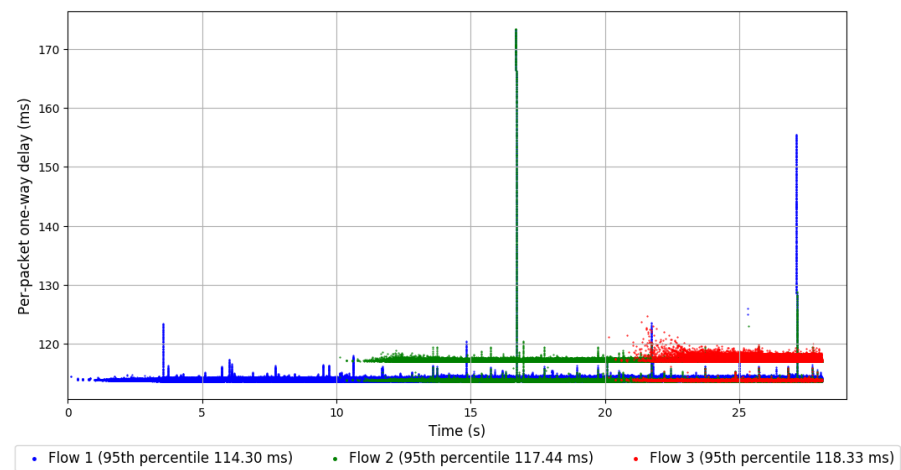
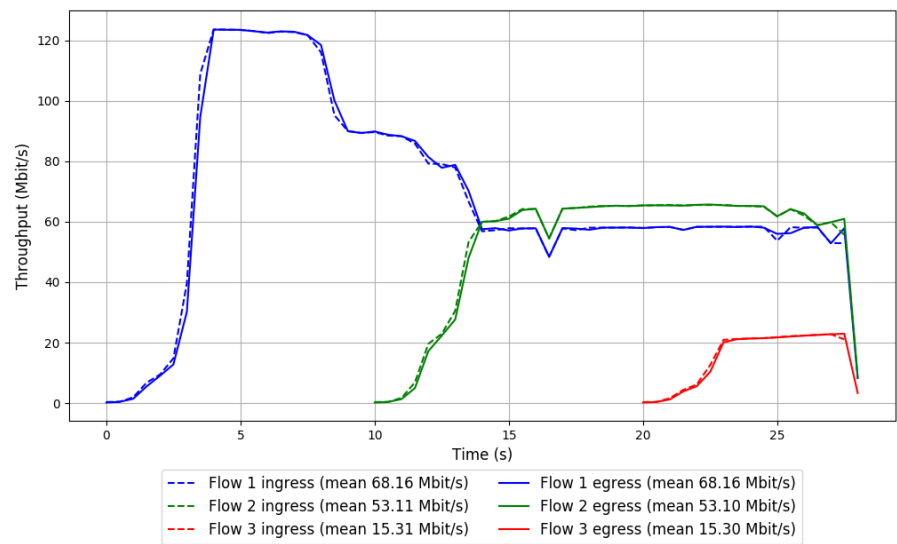
-- Flow 3:

Average throughput: 15.30 Mbit/s

95th percentile per-packet one-way delay: 118.331 ms

Loss rate: 0.00%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2017-11-30 22:57:52

End at: 2017-11-30 22:58:22

Below is generated by plot.py at 2017-12-01 01:58:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 111.20 Mbit/s

95th percentile per-packet one-way delay: 117.280 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 69.34 Mbit/s

95th percentile per-packet one-way delay: 117.273 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 57.00 Mbit/s

95th percentile per-packet one-way delay: 117.301 ms

Loss rate: 0.00%

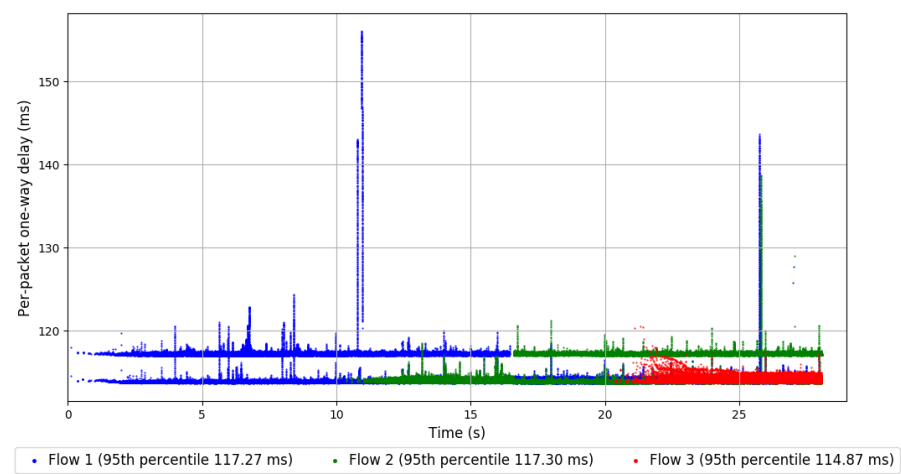
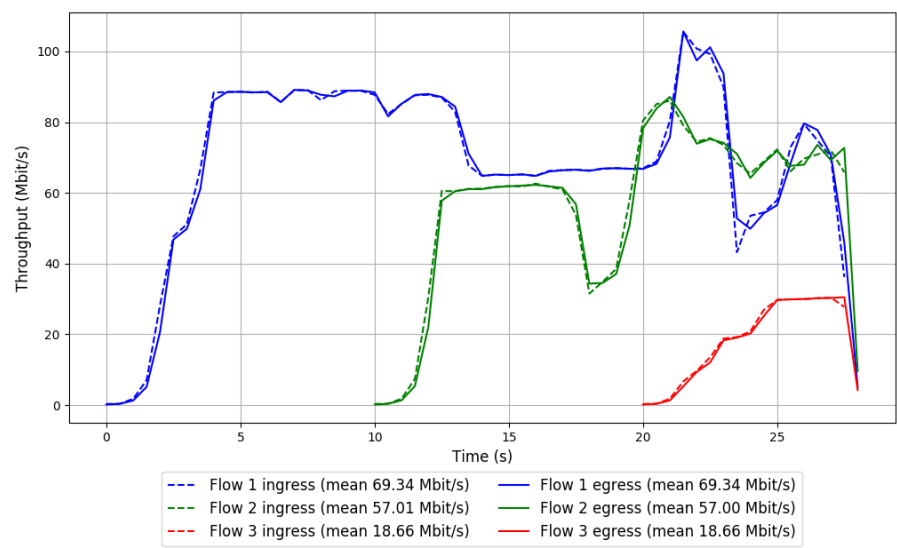
-- Flow 3:

Average throughput: 18.66 Mbit/s

95th percentile per-packet one-way delay: 114.870 ms

Loss rate: 0.01%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2017-11-30 23:10:50

End at: 2017-11-30 23:11:20

Below is generated by plot.py at 2017-12-01 01:58:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 103.25 Mbit/s

95th percentile per-packet one-way delay: 117.064 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 67.22 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 39.31 Mbit/s

95th percentile per-packet one-way delay: 114.195 ms

Loss rate: 0.00%

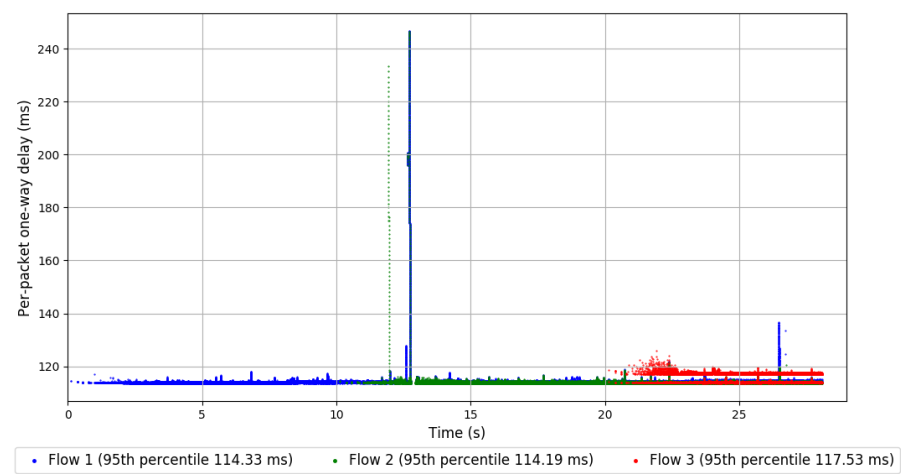
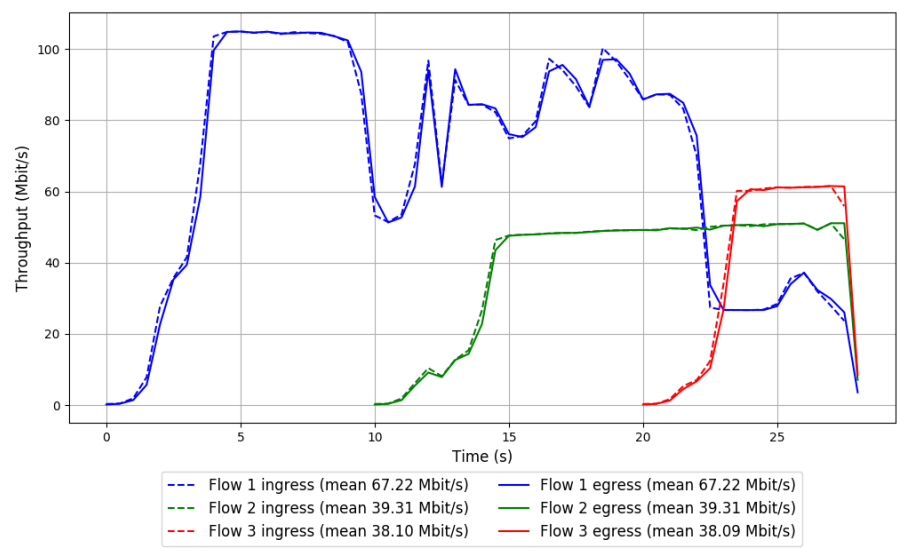
-- Flow 3:

Average throughput: 38.09 Mbit/s

95th percentile per-packet one-way delay: 117.533 ms

Loss rate: 0.00%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2017-11-30 23:23:32

End at: 2017-11-30 23:24:02

Below is generated by plot.py at 2017-12-01 01:58:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 68.60 Mbit/s

95th percentile per-packet one-way delay: 117.203 ms

Loss rate: 0.13%

-- Flow 1:

Average throughput: 26.50 Mbit/s

95th percentile per-packet one-way delay: 117.281 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 62.40 Mbit/s

95th percentile per-packet one-way delay: 114.646 ms

Loss rate: 0.18%

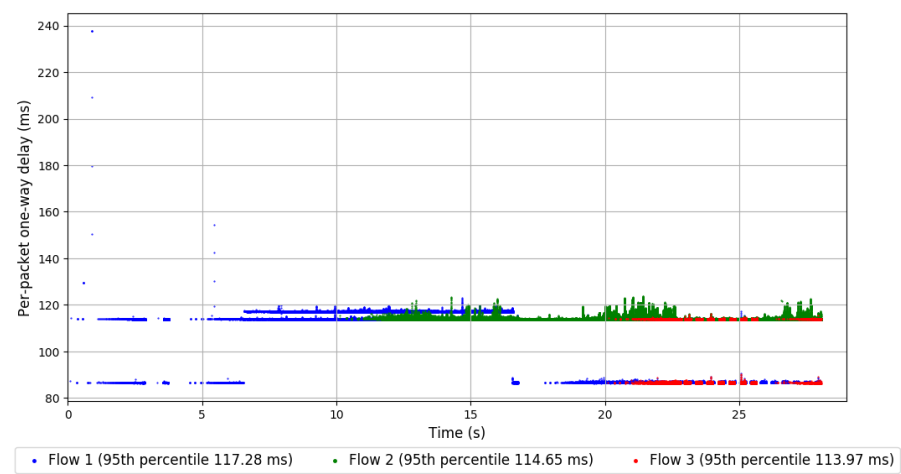
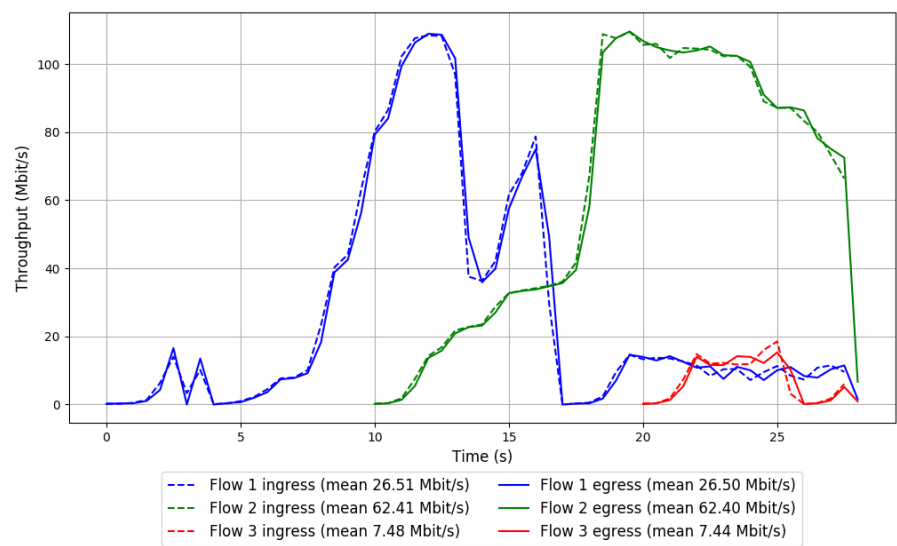
-- Flow 3:

Average throughput: 7.44 Mbit/s

95th percentile per-packet one-way delay: 113.974 ms

Loss rate: 0.46%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2017-11-30 23:35:48

End at: 2017-11-30 23:36:18

Below is generated by plot.py at 2017-12-01 01:58:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 30.64 Mbit/s

95th percentile per-packet one-way delay: 117.209 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 10.28 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 8.53 Mbit/s

95th percentile per-packet one-way delay: 113.948 ms

Loss rate: 0.00%

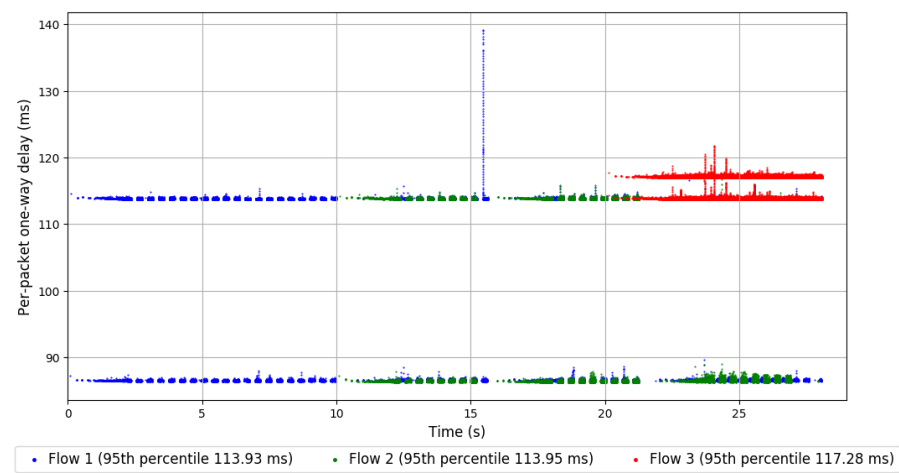
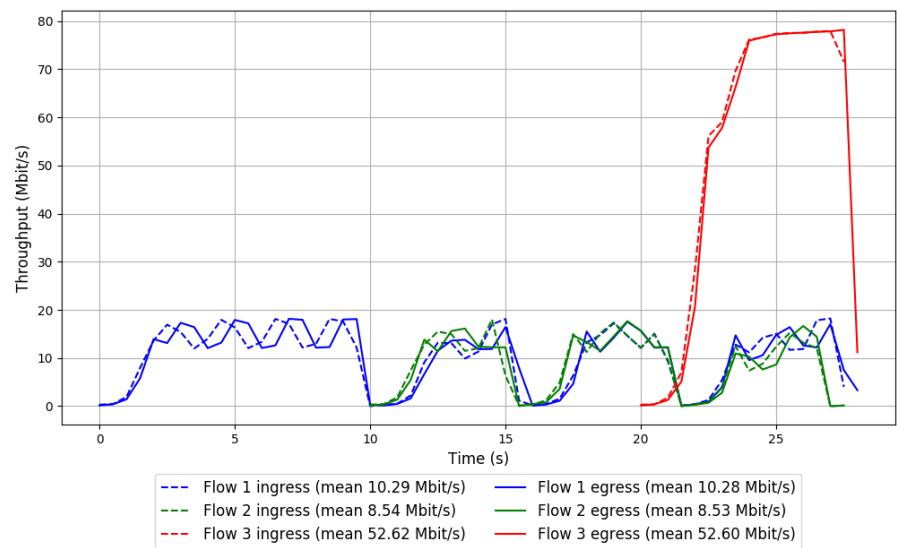
-- Flow 3:

Average throughput: 52.60 Mbit/s

95th percentile per-packet one-way delay: 117.277 ms

Loss rate: 0.00%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2017-11-30 23:48:25

End at: 2017-11-30 23:48:55

Below is generated by plot.py at 2017-12-01 01:58:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 67.27 Mbit/s

95th percentile per-packet one-way delay: 114.043 ms

Loss rate: 0.33%

-- Flow 1:

Average throughput: 13.34 Mbit/s

95th percentile per-packet one-way delay: 114.366 ms

Loss rate: 0.29%

-- Flow 2:

Average throughput: 54.88 Mbit/s

95th percentile per-packet one-way delay: 87.066 ms

Loss rate: 0.39%

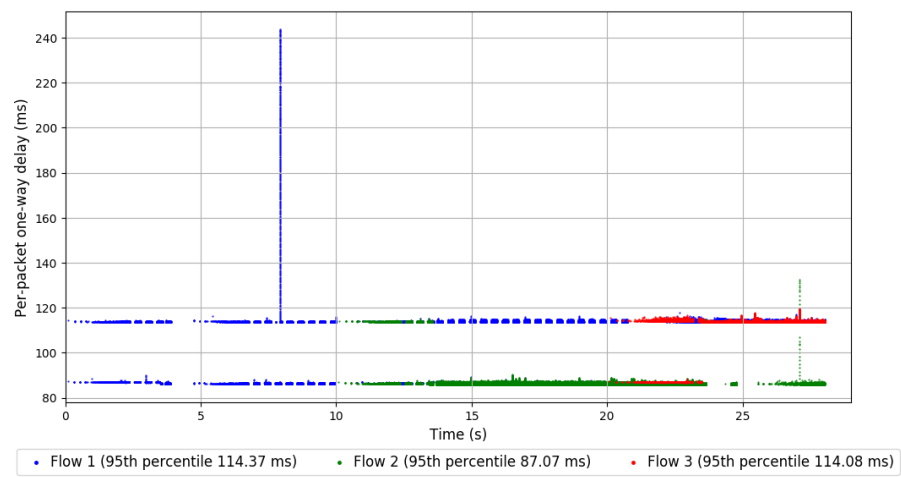
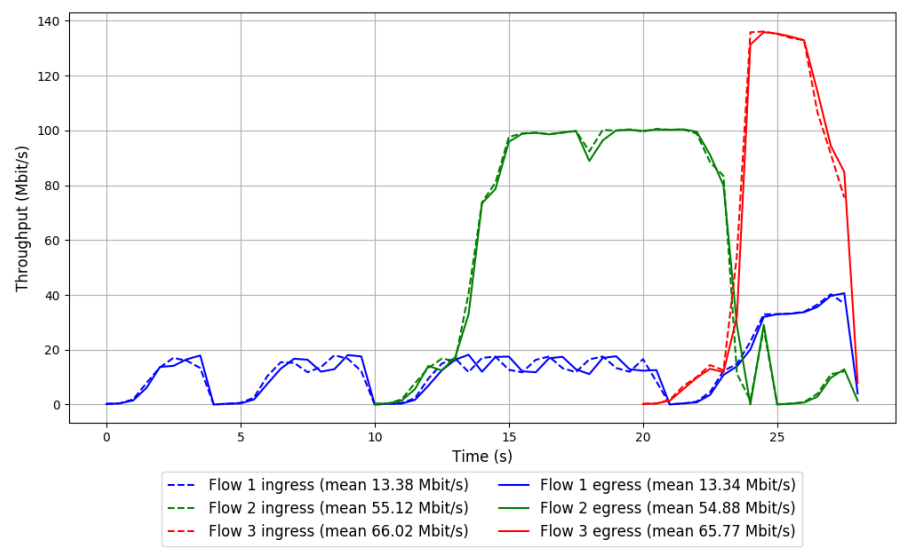
-- Flow 3:

Average throughput: 65.77 Mbit/s

95th percentile per-packet one-way delay: 114.084 ms

Loss rate: 0.27%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2017-12-01 00:00:47

End at: 2017-12-01 00:01:17

Below is generated by plot.py at 2017-12-01 01:58:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 39.21 Mbit/s

95th percentile per-packet one-way delay: 117.255 ms

Loss rate: 0.15%

-- Flow 1:

Average throughput: 8.94 Mbit/s

95th percentile per-packet one-way delay: 113.972 ms

Loss rate: 0.65%

-- Flow 2:

Average throughput: 42.61 Mbit/s

95th percentile per-packet one-way delay: 117.289 ms

Loss rate: 0.00%

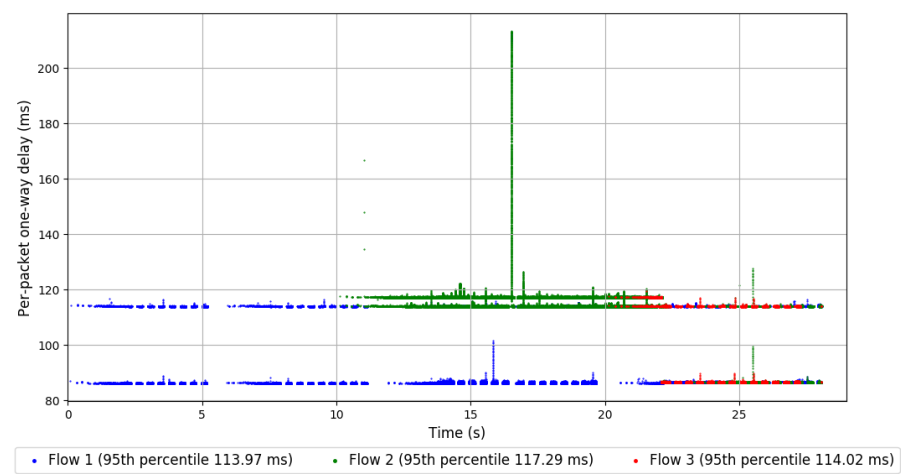
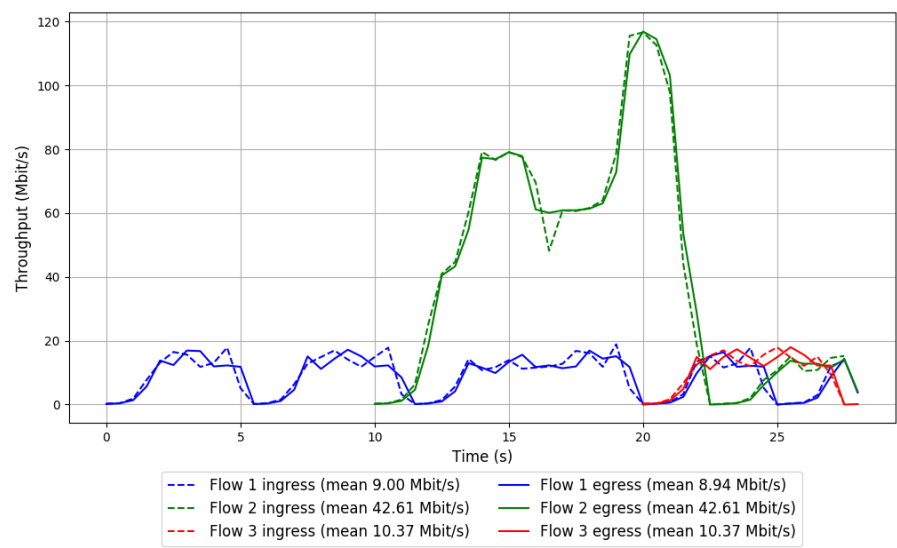
-- Flow 3:

Average throughput: 10.37 Mbit/s

95th percentile per-packet one-way delay: 114.024 ms

Loss rate: 0.00%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2017-12-01 00:13:16

End at: 2017-12-01 00:13:46

Below is generated by plot.py at 2017-12-01 01:59:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 82.47 Mbit/s

95th percentile per-packet one-way delay: 117.348 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 31.28 Mbit/s

95th percentile per-packet one-way delay: 117.335 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 58.10 Mbit/s

95th percentile per-packet one-way delay: 117.352 ms

Loss rate: 0.00%

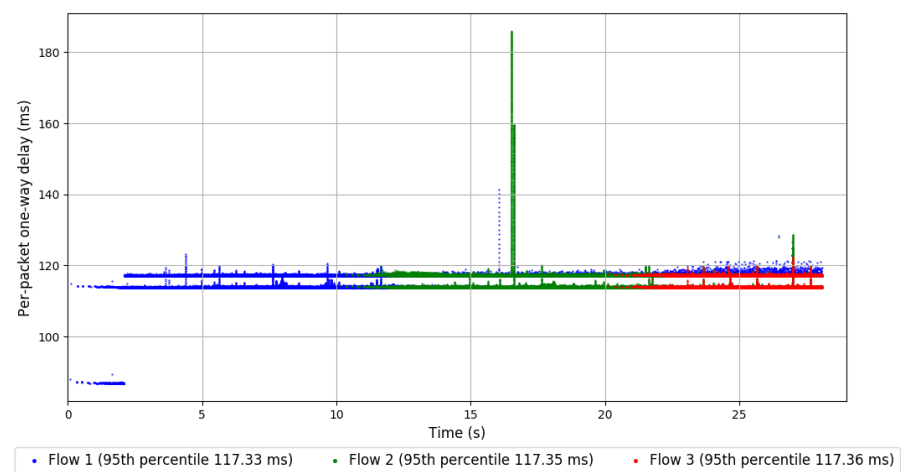
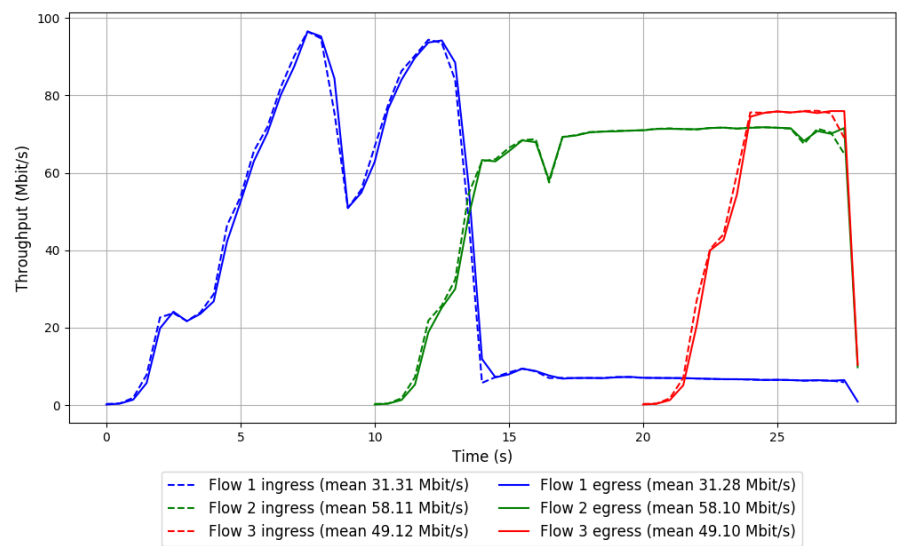
-- Flow 3:

Average throughput: 49.10 Mbit/s

95th percentile per-packet one-way delay: 117.356 ms

Loss rate: 0.00%

Run 10: Report of Copa — Data Link

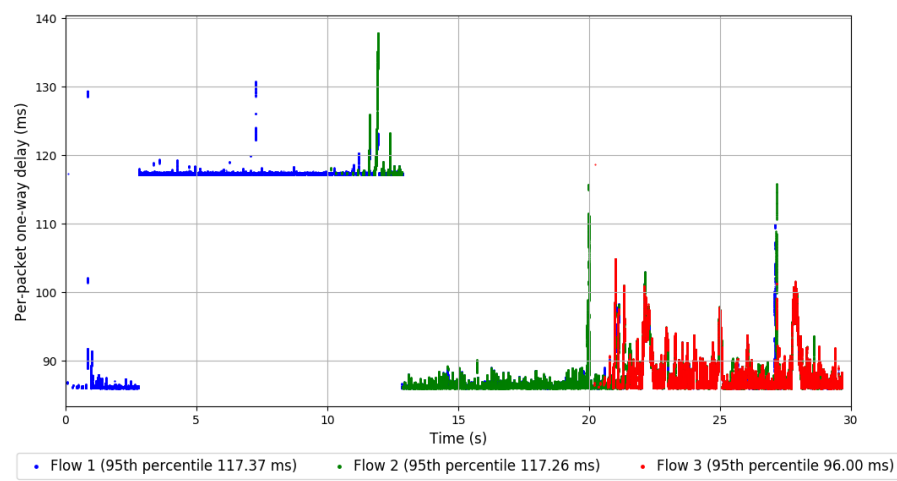
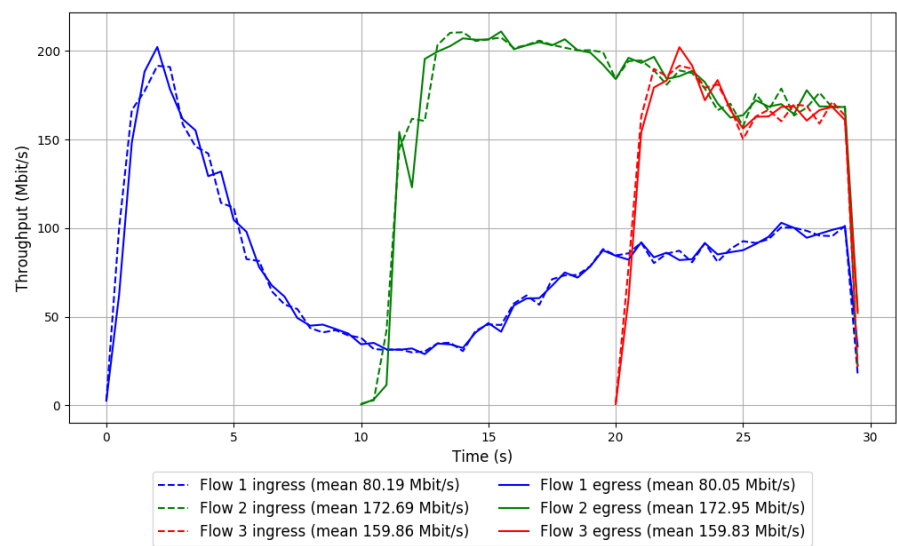


```
Run 1: Statistics of Indigo

Start at: 2017-11-30 22:23:57
End at: 2017-11-30 22:24:27

# Below is generated by plot.py at 2017-12-01 02:01:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 245.36 Mbit/s
95th percentile per-packet one-way delay: 117.319 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 80.05 Mbit/s
95th percentile per-packet one-way delay: 117.372 ms
Loss rate: 0.17%
-- Flow 2:
Average throughput: 172.95 Mbit/s
95th percentile per-packet one-way delay: 117.258 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 159.83 Mbit/s
95th percentile per-packet one-way delay: 96.000 ms
Loss rate: 0.01%
```


Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2017-11-30 22:36:36

End at: 2017-11-30 22:37:06

Below is generated by plot.py at 2017-12-01 02:02:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 295.26 Mbit/s

95th percentile per-packet one-way delay: 117.355 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 166.31 Mbit/s

95th percentile per-packet one-way delay: 117.280 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 145.83 Mbit/s

95th percentile per-packet one-way delay: 117.345 ms

Loss rate: 0.00%

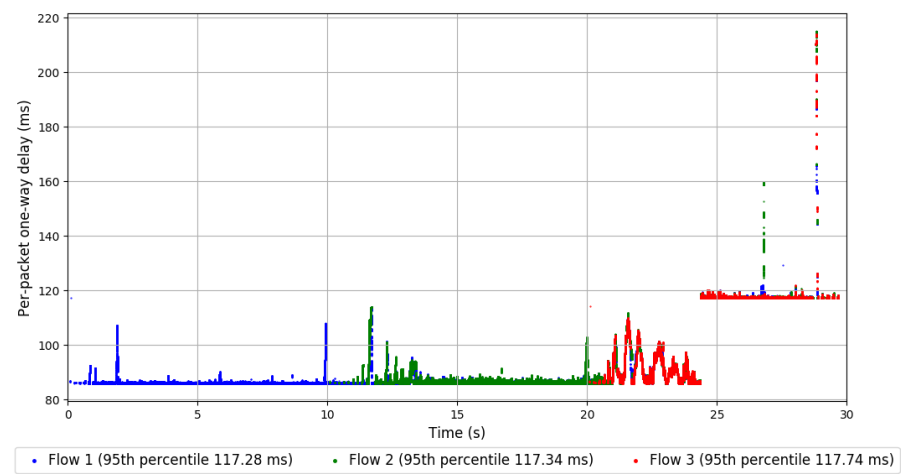
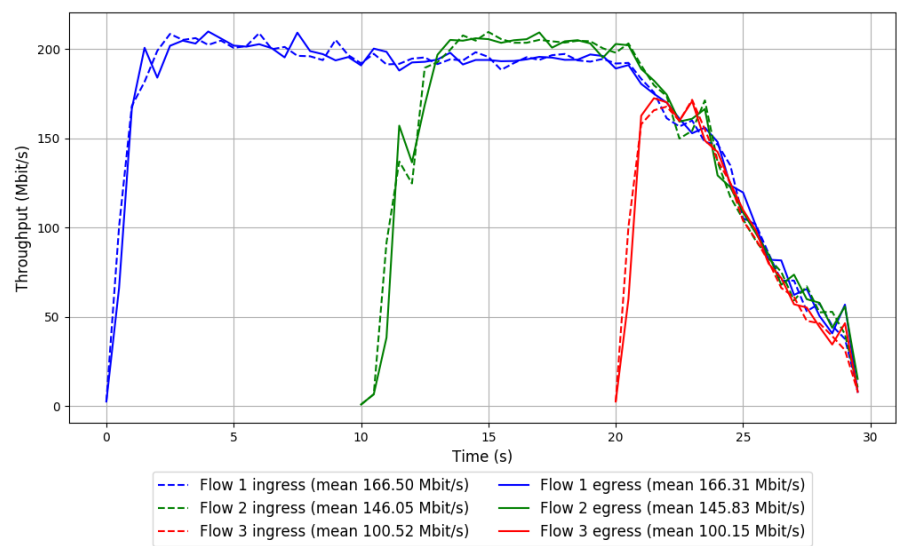
-- Flow 3:

Average throughput: 100.15 Mbit/s

95th percentile per-packet one-way delay: 117.743 ms

Loss rate: 0.07%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2017-11-30 22:49:20

End at: 2017-11-30 22:49:50

Below is generated by plot.py at 2017-12-01 02:02:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 314.02 Mbit/s

95th percentile per-packet one-way delay: 120.865 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 169.70 Mbit/s

95th percentile per-packet one-way delay: 119.973 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 150.77 Mbit/s

95th percentile per-packet one-way delay: 121.879 ms

Loss rate: 0.01%

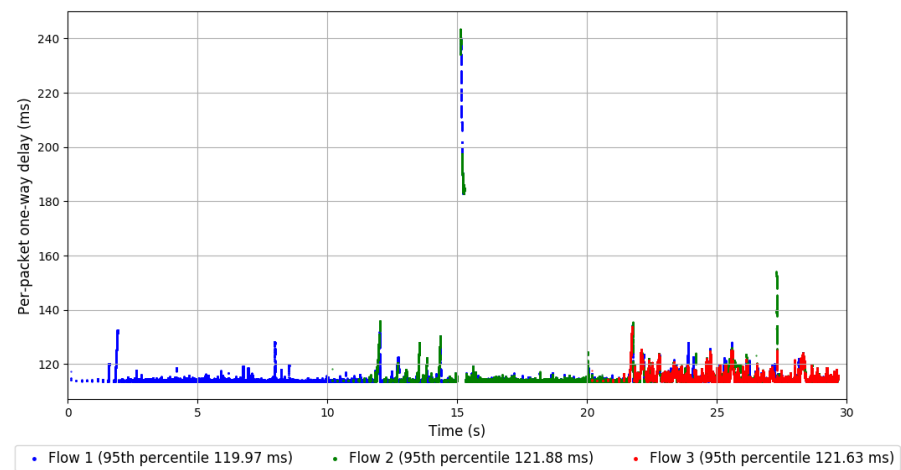
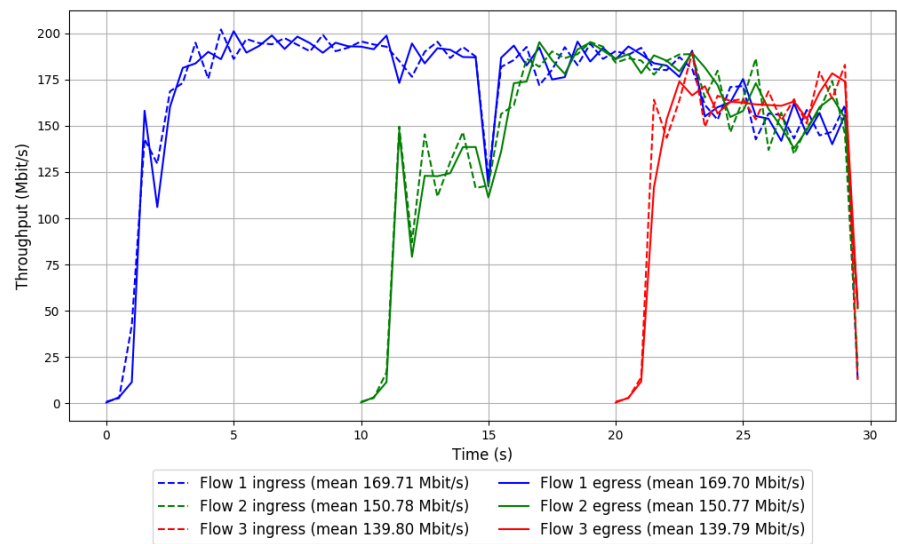
-- Flow 3:

Average throughput: 139.79 Mbit/s

95th percentile per-packet one-way delay: 121.629 ms

Loss rate: 0.00%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2017-11-30 23:02:25

End at: 2017-11-30 23:02:55

Below is generated by plot.py at 2017-12-01 02:03:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 319.33 Mbit/s

95th percentile per-packet one-way delay: 127.456 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 169.84 Mbit/s

95th percentile per-packet one-way delay: 123.122 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 158.23 Mbit/s

95th percentile per-packet one-way delay: 127.799 ms

Loss rate: 0.01%

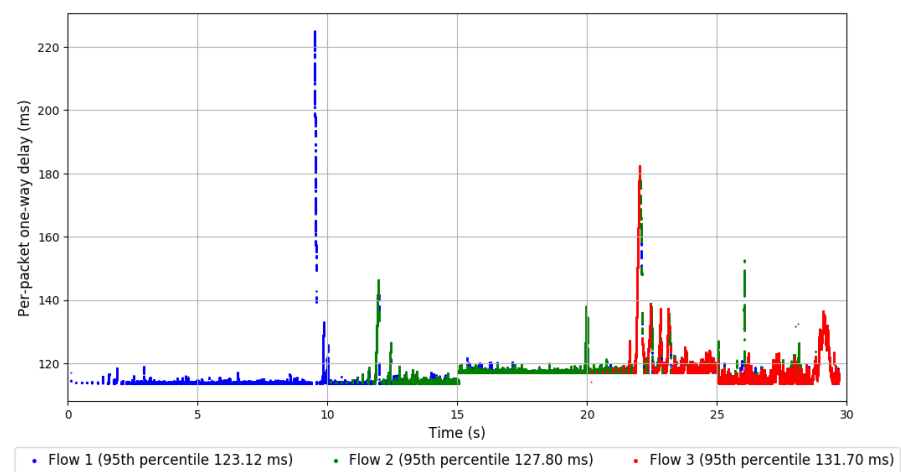
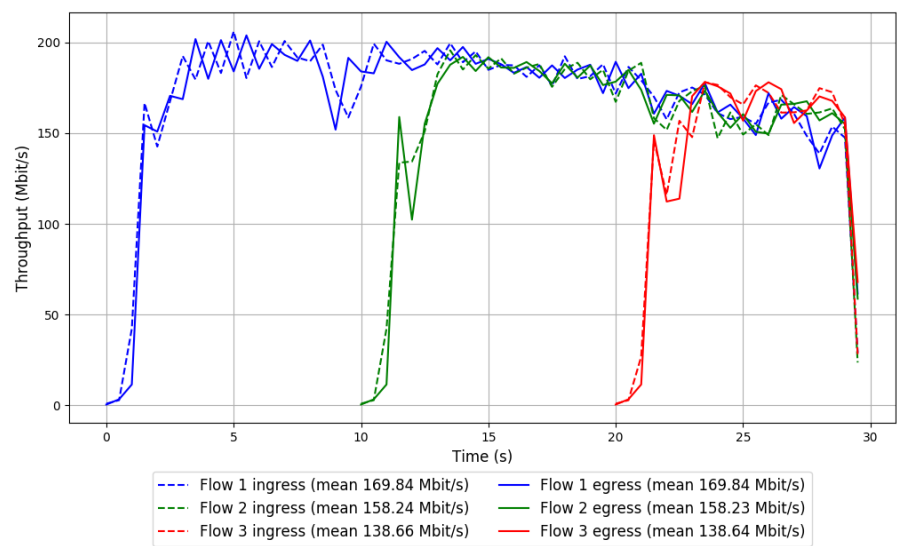
-- Flow 3:

Average throughput: 138.64 Mbit/s

95th percentile per-packet one-way delay: 131.702 ms

Loss rate: 0.00%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2017-11-30 23:15:20

End at: 2017-11-30 23:15:50

Below is generated by plot.py at 2017-12-01 02:03:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 309.20 Mbit/s

95th percentile per-packet one-way delay: 124.490 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 168.76 Mbit/s

95th percentile per-packet one-way delay: 121.586 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 163.19 Mbit/s

95th percentile per-packet one-way delay: 127.537 ms

Loss rate: 0.13%

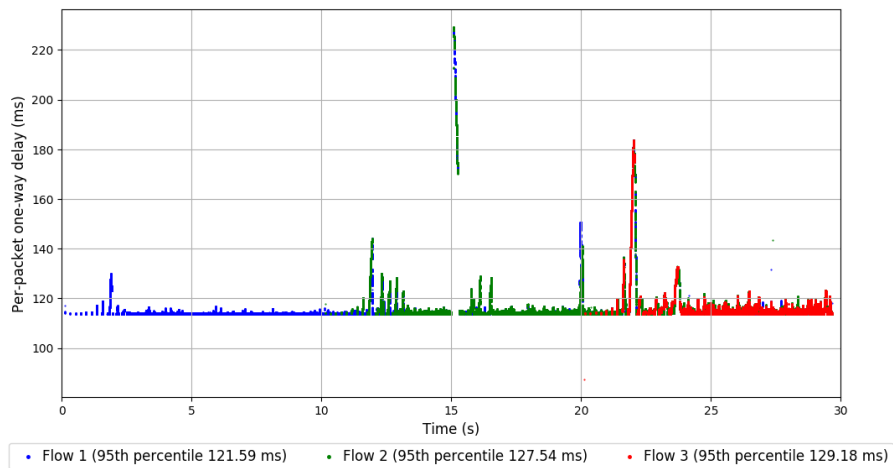
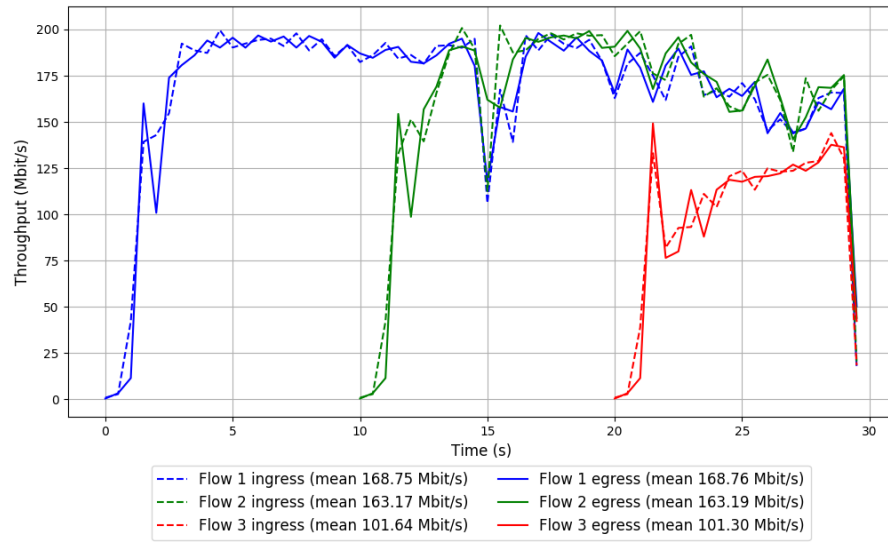
-- Flow 3:

Average throughput: 101.30 Mbit/s

95th percentile per-packet one-way delay: 129.175 ms

Loss rate: 0.38%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2017-11-30 23:27:39

End at: 2017-11-30 23:28:09

Below is generated by plot.py at 2017-12-01 02:03:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 299.54 Mbit/s

95th percentile per-packet one-way delay: 120.068 ms

Loss rate: 0.32%

-- Flow 1:

Average throughput: 165.97 Mbit/s

95th percentile per-packet one-way delay: 117.559 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 159.86 Mbit/s

95th percentile per-packet one-way delay: 124.004 ms

Loss rate: 0.42%

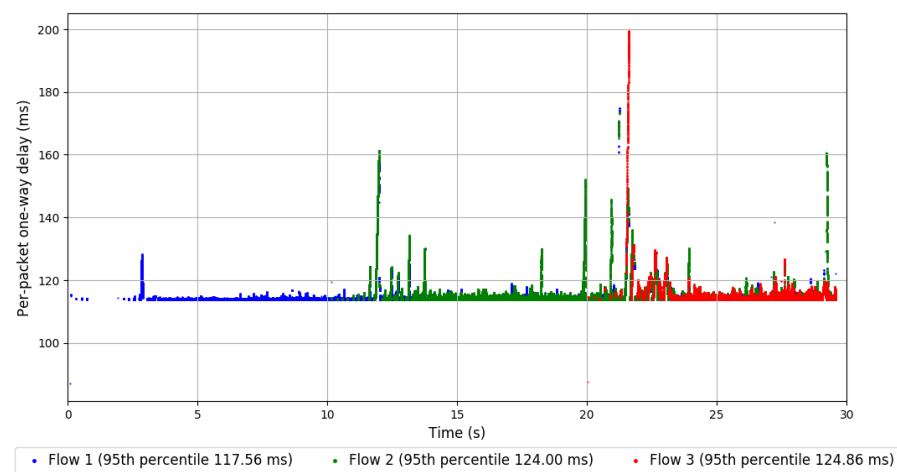
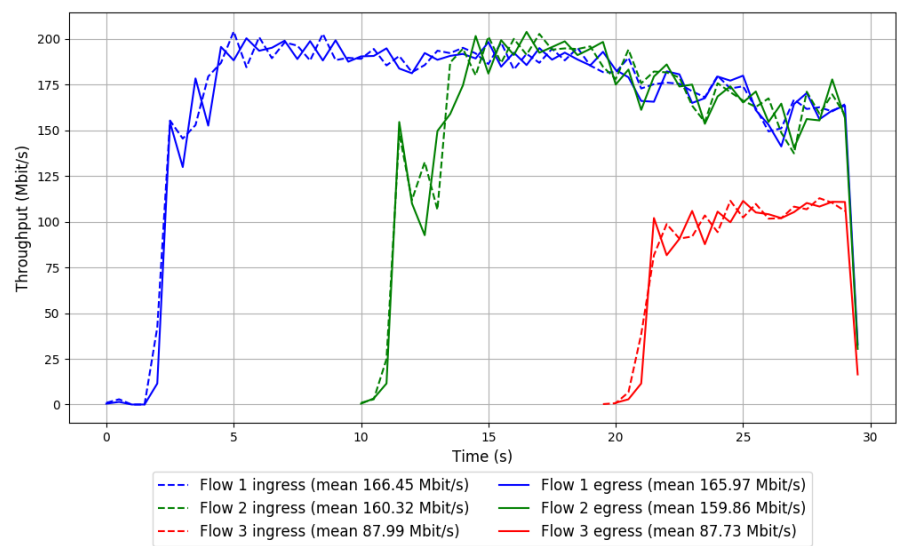
-- Flow 3:

Average throughput: 87.73 Mbit/s

95th percentile per-packet one-way delay: 124.860 ms

Loss rate: 0.30%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2017-11-30 23:40:03

End at: 2017-11-30 23:40:33

Below is generated by plot.py at 2017-12-01 02:03:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 313.91 Mbit/s

95th percentile per-packet one-way delay: 114.354 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 171.61 Mbit/s

95th percentile per-packet one-way delay: 114.293 ms

Loss rate: 0.16%

-- Flow 2:

Average throughput: 149.08 Mbit/s

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

Loss rate: 0.01%

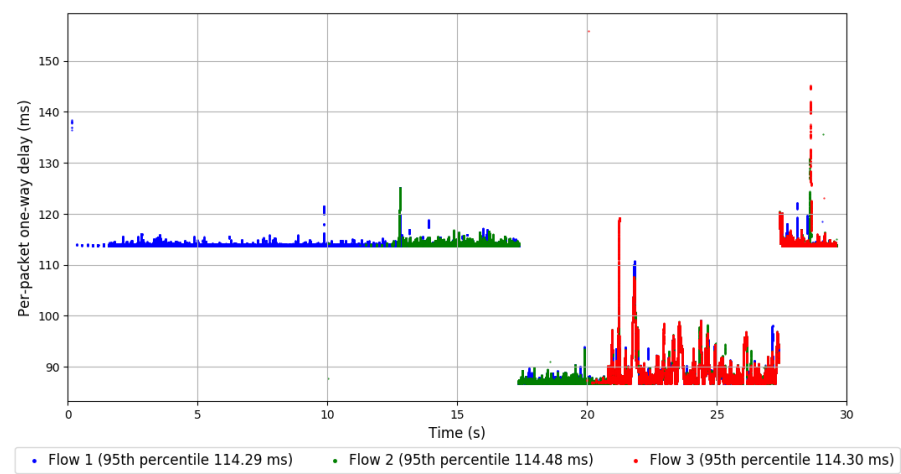
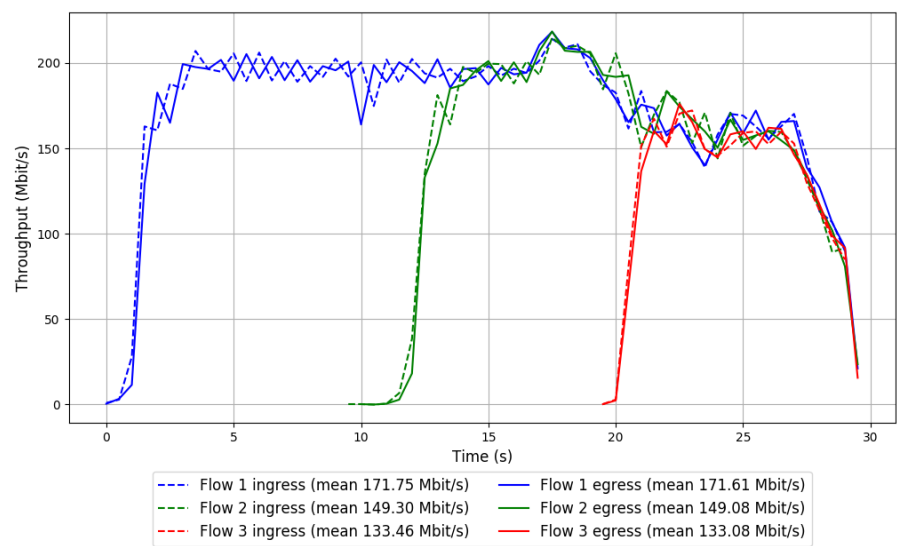
-- Flow 3:

Average throughput: 133.08 Mbit/s

95th percentile per-packet one-way delay: 114.298 ms

Loss rate: 0.01%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2017-11-30 23:52:43

End at: 2017-11-30 23:53:13

Below is generated by plot.py at 2017-12-01 02:05:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 310.47 Mbit/s

95th percentile per-packet one-way delay: 131.947 ms

Loss rate: 0.14%

-- Flow 1:

Average throughput: 170.01 Mbit/s

95th percentile per-packet one-way delay: 128.861 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 152.32 Mbit/s

95th percentile per-packet one-way delay: 134.021 ms

Loss rate: 0.12%

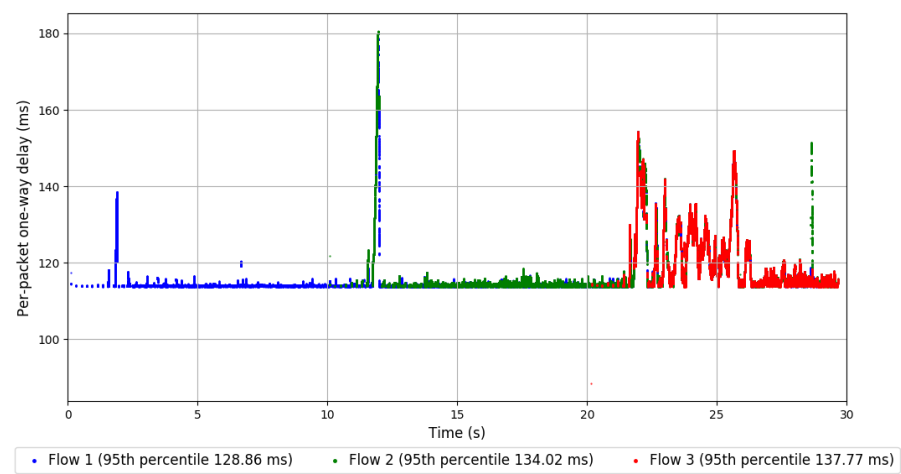
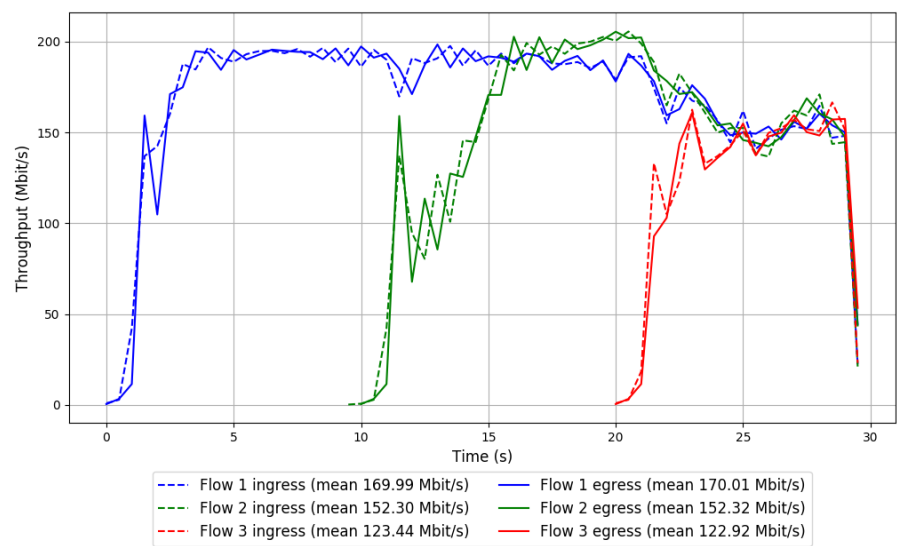
-- Flow 3:

Average throughput: 122.92 Mbit/s

95th percentile per-packet one-way delay: 137.768 ms

Loss rate: 0.44%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2017-12-01 00:04:49

End at: 2017-12-01 00:05:19

Below is generated by plot.py at 2017-12-01 02:06:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 292.95 Mbit/s

95th percentile per-packet one-way delay: 125.010 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 159.16 Mbit/s

95th percentile per-packet one-way delay: 121.811 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 151.17 Mbit/s

95th percentile per-packet one-way delay: 128.260 ms

Loss rate: 0.00%

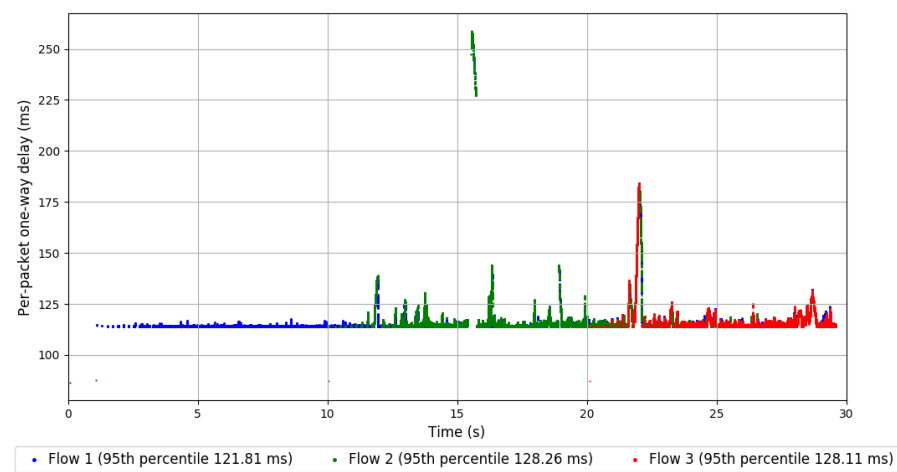
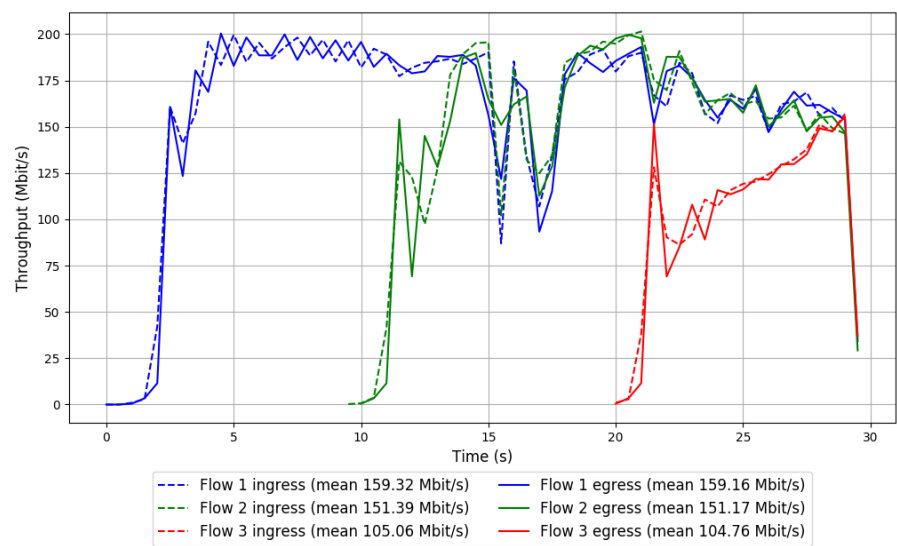
-- Flow 3:

Average throughput: 104.76 Mbit/s

95th percentile per-packet one-way delay: 128.109 ms

Loss rate: 0.00%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2017-12-01 00:17:27

End at: 2017-12-01 00:17:57

Below is generated by plot.py at 2017-12-01 02:07:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 316.66 Mbit/s

95th percentile per-packet one-way delay: 120.598 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 173.87 Mbit/s

95th percentile per-packet one-way delay: 118.413 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 167.21 Mbit/s

95th percentile per-packet one-way delay: 121.398 ms

Loss rate: 0.14%

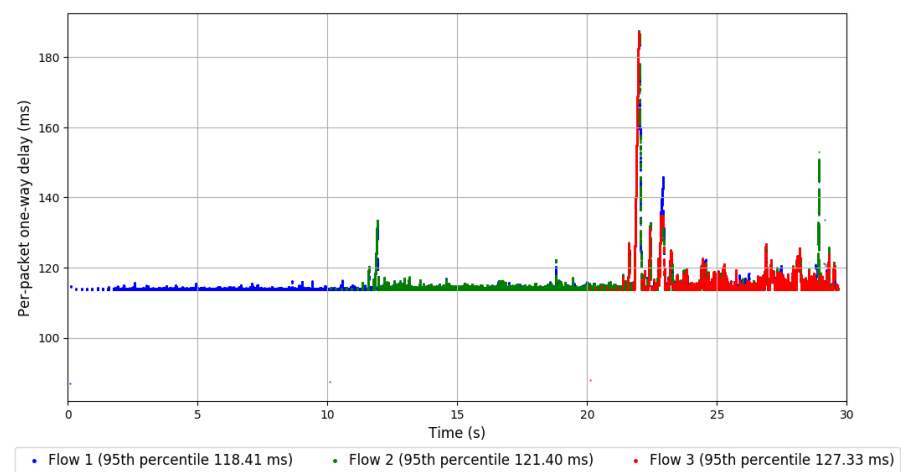
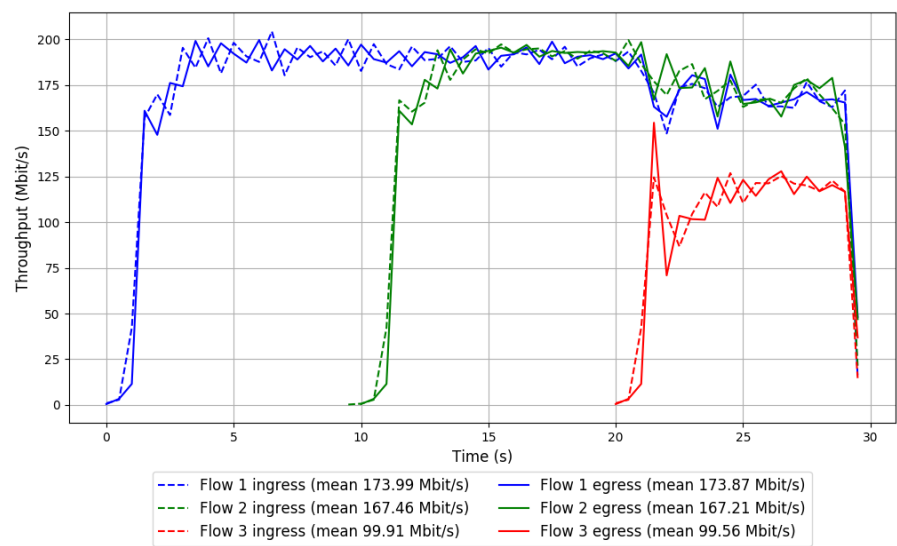
-- Flow 3:

Average throughput: 99.56 Mbit/s

95th percentile per-packet one-way delay: 127.330 ms

Loss rate: 0.33%

Run 10: Report of Indigo — Data Link

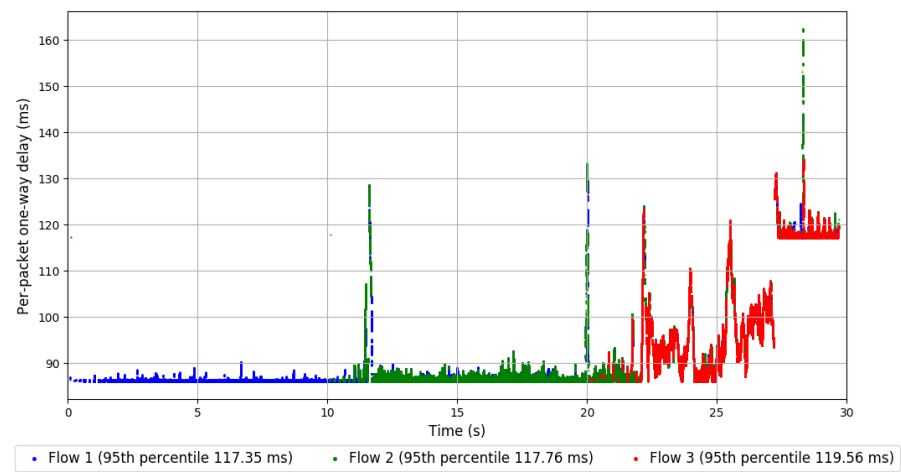
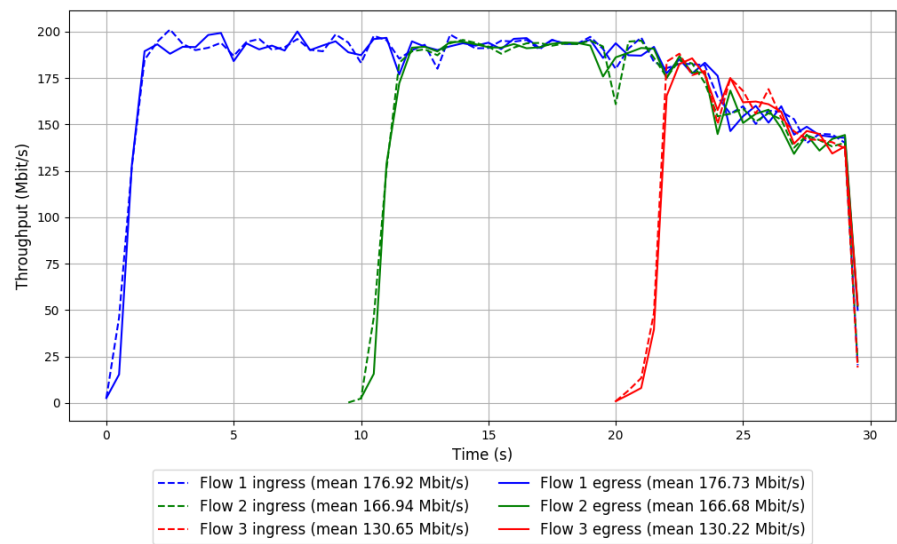


```
Run 1: Statistics of Indigo-calib

Start at: 2017-11-30 22:18:23
End at: 2017-11-30 22:18:53

# Below is generated by plot.py at 2017-12-01 02:08:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 329.23 Mbit/s
95th percentile per-packet one-way delay: 117.714 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 176.73 Mbit/s
95th percentile per-packet one-way delay: 117.346 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 166.68 Mbit/s
95th percentile per-packet one-way delay: 117.759 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 130.22 Mbit/s
95th percentile per-packet one-way delay: 119.558 ms
Loss rate: 0.02%
```

Run 1: Report of Indigo-calib — Data Link

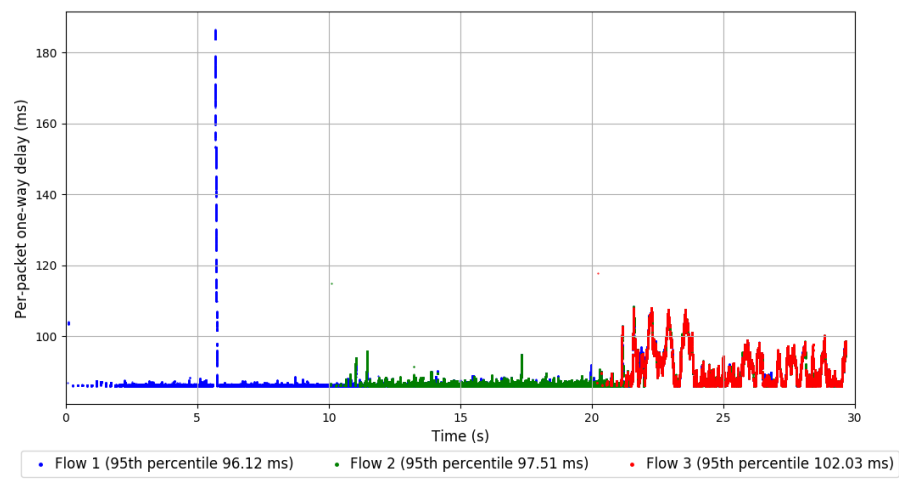
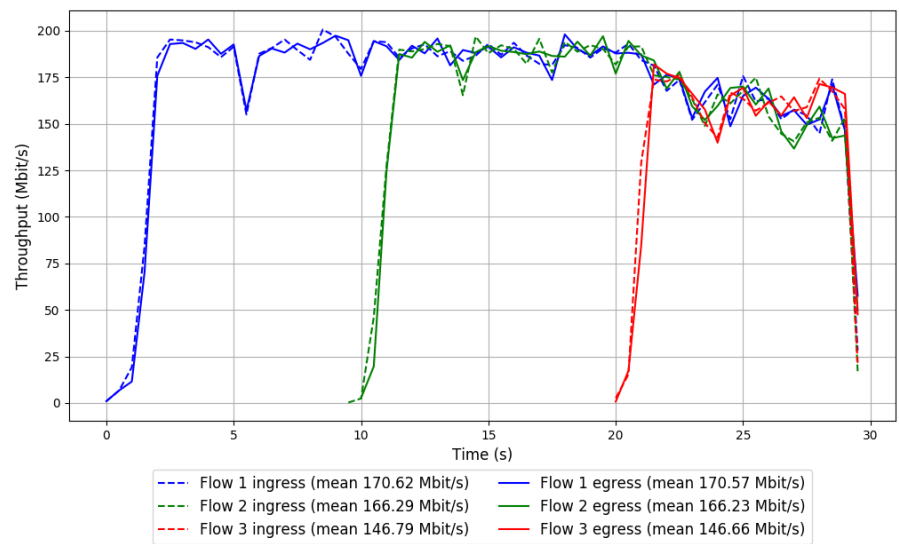


```
Run 2: Statistics of Indigo-calib

Start at: 2017-11-30 22:30:59
End at: 2017-11-30 22:31:29

# Below is generated by plot.py at 2017-12-01 02:08:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 327.59 Mbit/s
95th percentile per-packet one-way delay: 97.776 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 170.57 Mbit/s
95th percentile per-packet one-way delay: 96.125 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 166.23 Mbit/s
95th percentile per-packet one-way delay: 97.513 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 146.66 Mbit/s
95th percentile per-packet one-way delay: 102.028 ms
Loss rate: 0.00%
```

Run 2: Report of Indigo-calib — Data Link

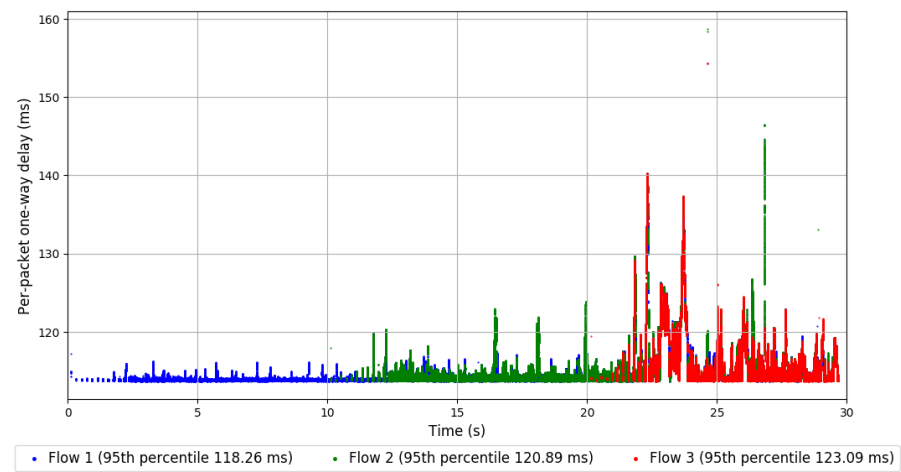
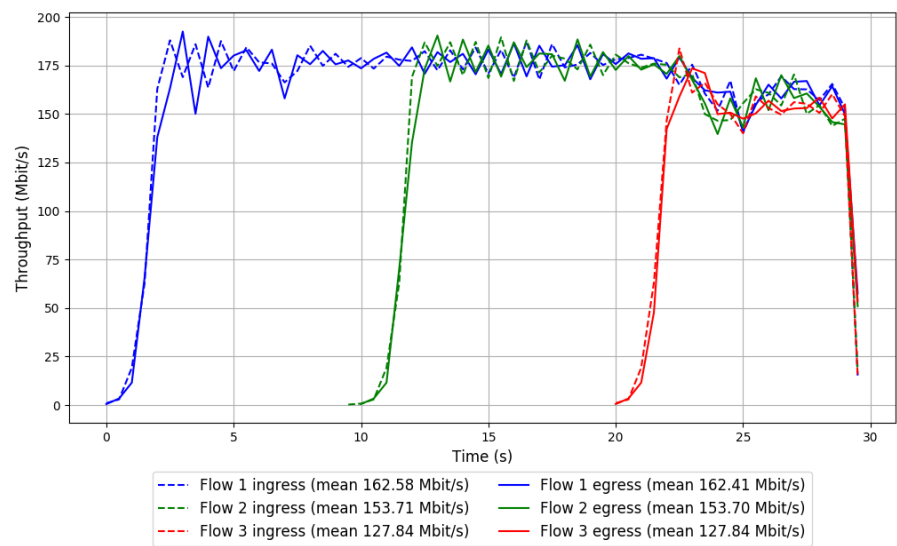


```
Run 3: Statistics of Indigo-calib

Start at: 2017-11-30 22:43:36
End at: 2017-11-30 22:44:06

# Below is generated by plot.py at 2017-12-01 02:08:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 305.37 Mbit/s
95th percentile per-packet one-way delay: 120.400 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 162.41 Mbit/s
95th percentile per-packet one-way delay: 118.258 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 153.70 Mbit/s
95th percentile per-packet one-way delay: 120.888 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 127.84 Mbit/s
95th percentile per-packet one-way delay: 123.088 ms
Loss rate: 0.00%
```


Run 3: Report of Indigo-calib — Data Link

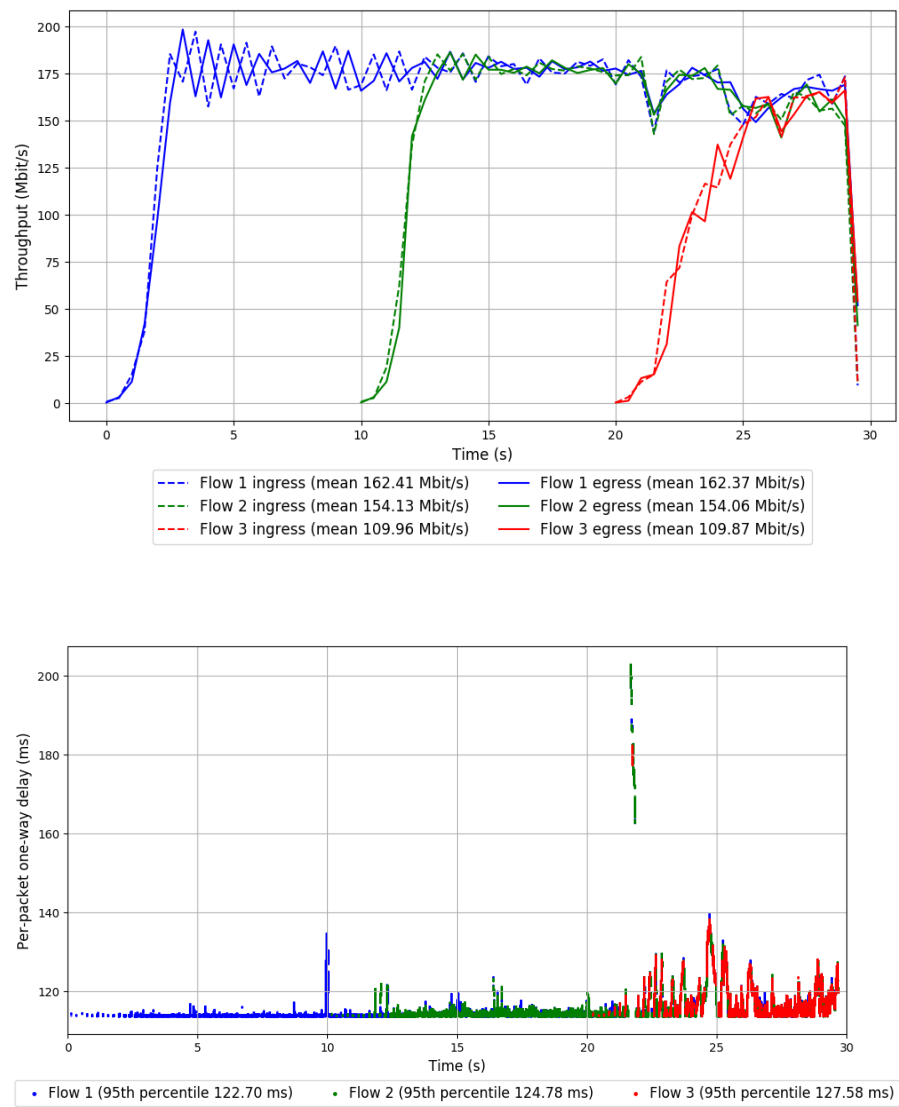


```
Run 4: Statistics of Indigo-calib

Start at: 2017-11-30 22:56:43
End at: 2017-11-30 22:57:13

# Below is generated by plot.py at 2017-12-01 02:08:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 299.13 Mbit/s
95th percentile per-packet one-way delay: 124.442 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 162.37 Mbit/s
95th percentile per-packet one-way delay: 122.701 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 154.06 Mbit/s
95th percentile per-packet one-way delay: 124.783 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 109.87 Mbit/s
95th percentile per-packet one-way delay: 127.578 ms
Loss rate: 0.03%
```

Run 4: Report of Indigo-calib — Data Link

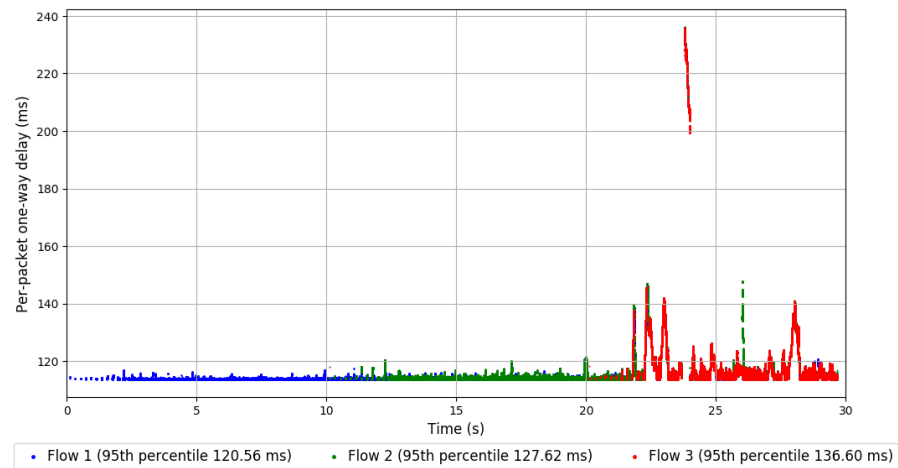
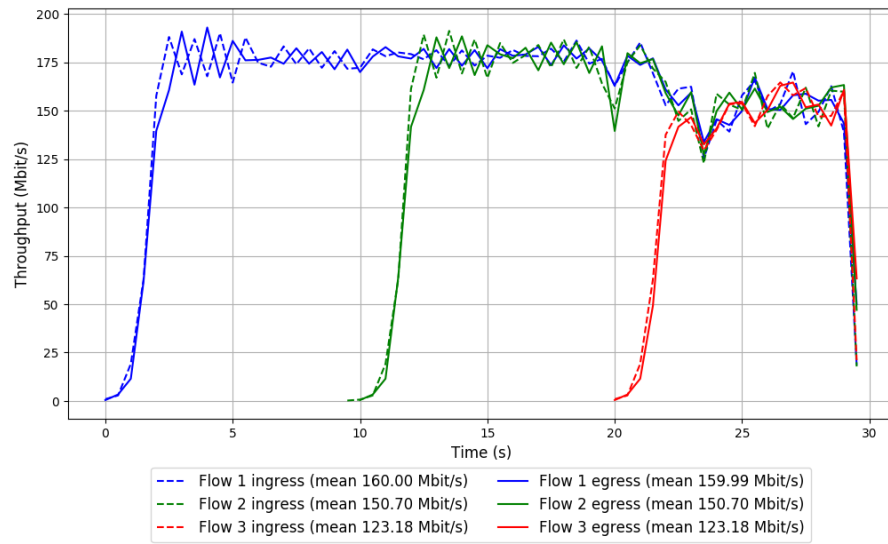


```
Run 5: Statistics of Indigo-calib

Start at: 2017-11-30 23:09:41
End at: 2017-11-30 23:10:11

# Below is generated by plot.py at 2017-12-01 02:08:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 299.47 Mbit/s
95th percentile per-packet one-way delay: 125.975 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 159.99 Mbit/s
95th percentile per-packet one-way delay: 120.564 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 150.70 Mbit/s
95th percentile per-packet one-way delay: 127.622 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 123.18 Mbit/s
95th percentile per-packet one-way delay: 136.604 ms
Loss rate: 0.00%
```

Run 5: Report of Indigo-calib — Data Link

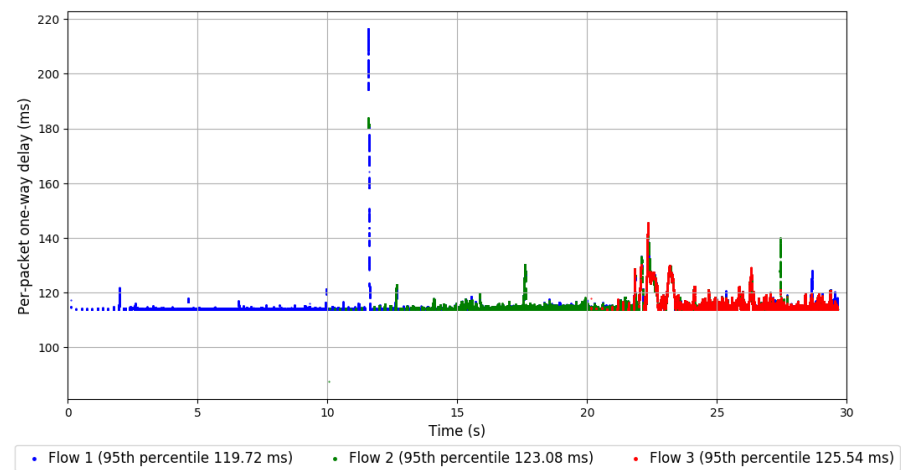
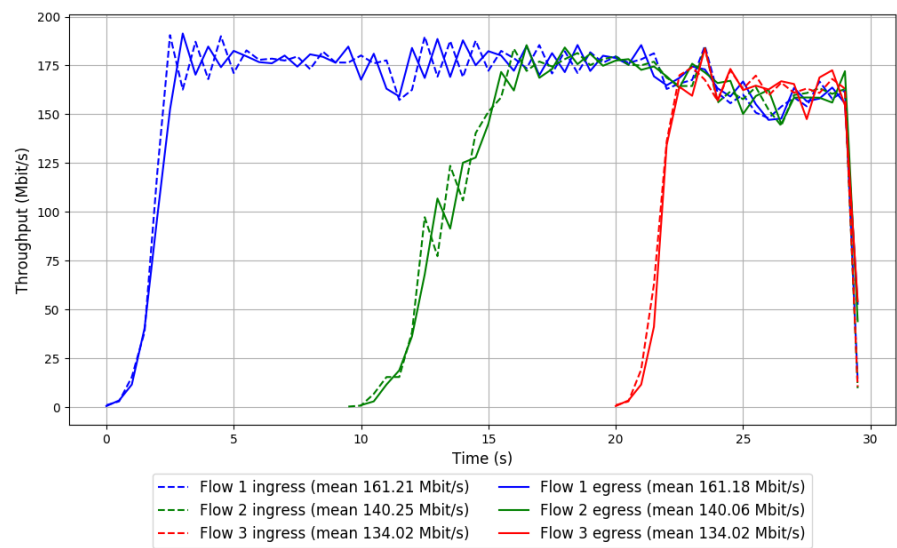


```
Run 6: Statistics of Indigo-calib

Start at: 2017-11-30 23:22:23
End at: 2017-11-30 23:22:53

# Below is generated by plot.py at 2017-12-01 02:09:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 297.26 Mbit/s
95th percentile per-packet one-way delay: 122.472 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 161.18 Mbit/s
95th percentile per-packet one-way delay: 119.715 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 140.06 Mbit/s
95th percentile per-packet one-way delay: 123.080 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 134.02 Mbit/s
95th percentile per-packet one-way delay: 125.539 ms
Loss rate: 0.01%
```

Run 6: Report of Indigo-calib — Data Link

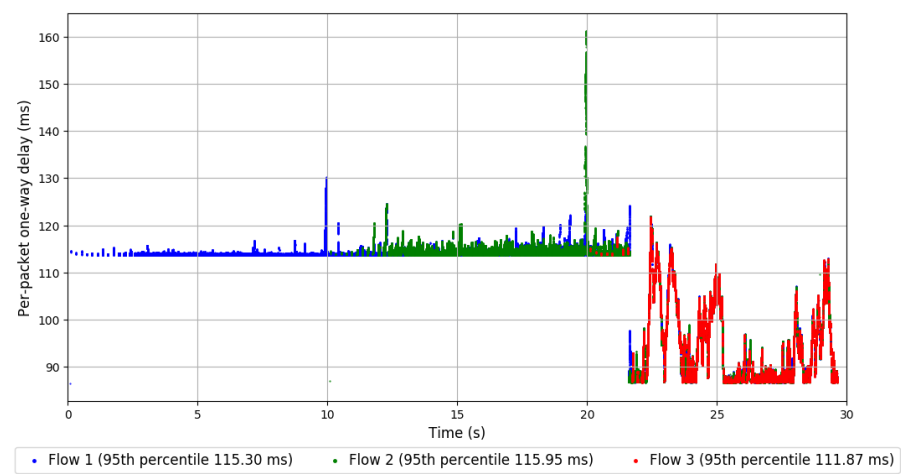
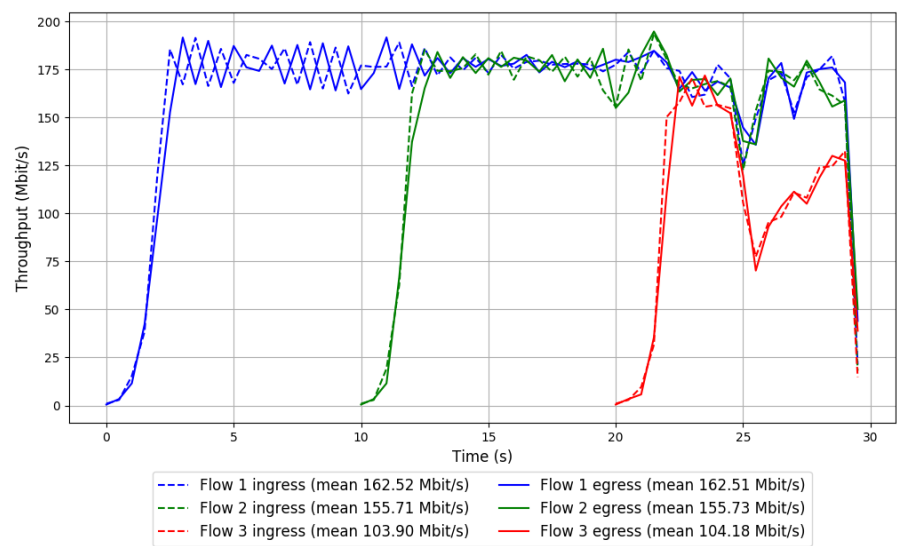


```
Run 7: Statistics of Indigo-calib

Start at: 2017-11-30 23:34:39
End at: 2017-11-30 23:35:09

# Below is generated by plot.py at 2017-12-01 02:10:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 299.04 Mbit/s
95th percentile per-packet one-way delay: 115.442 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 162.51 Mbit/s
95th percentile per-packet one-way delay: 115.304 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 155.73 Mbit/s
95th percentile per-packet one-way delay: 115.948 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 104.18 Mbit/s
95th percentile per-packet one-way delay: 111.867 ms
Loss rate: 0.02%
```


Run 7: Report of Indigo-calib — Data Link



Run 8: Statistics of Indigo-calib

Start at: 2017-11-30 23:47:15

End at: 2017-11-30 23:47:45

Below is generated by plot.py at 2017-12-01 02:10:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 308.28 Mbit/s

95th percentile per-packet one-way delay: 118.919 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 162.76 Mbit/s

95th percentile per-packet one-way delay: 117.414 ms

Loss rate: 0.09%

-- Flow 2:

Average throughput: 157.22 Mbit/s

95th percentile per-packet one-way delay: 119.510 ms

Loss rate: 0.00%

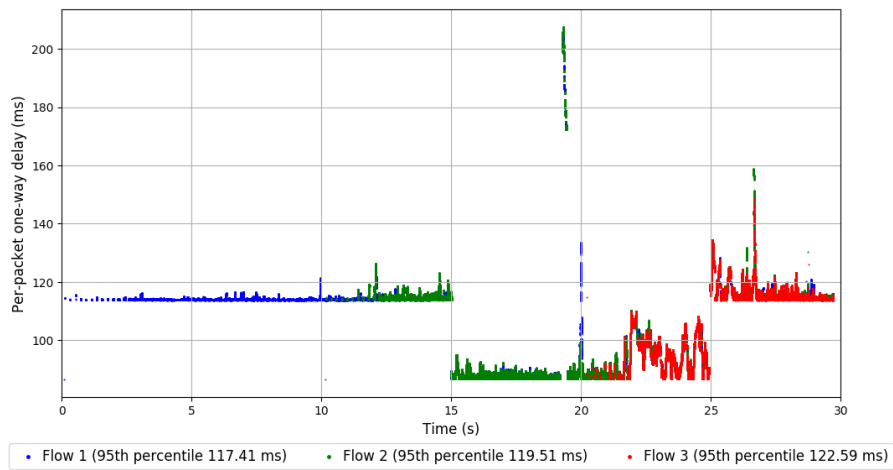
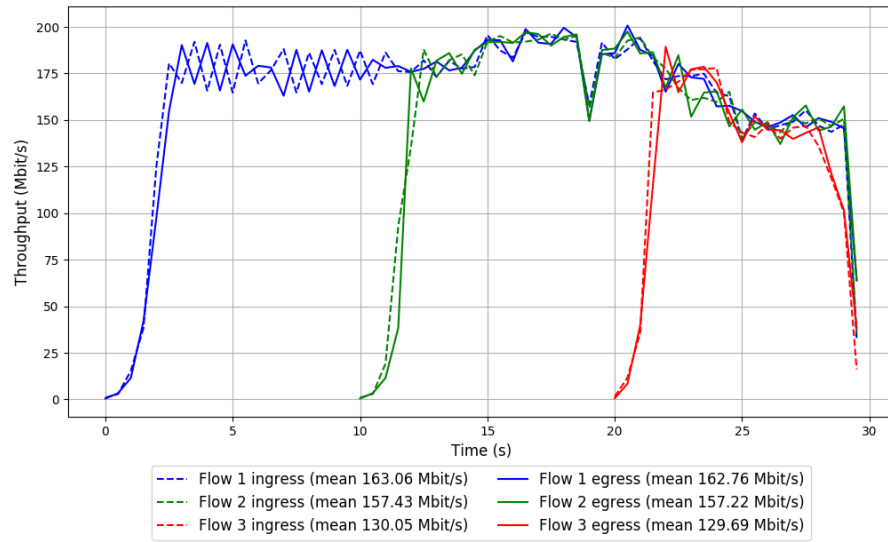
-- Flow 3:

Average throughput: 129.69 Mbit/s

95th percentile per-packet one-way delay: 122.591 ms

Loss rate: 0.00%

Run 8: Report of Indigo-calib — Data Link

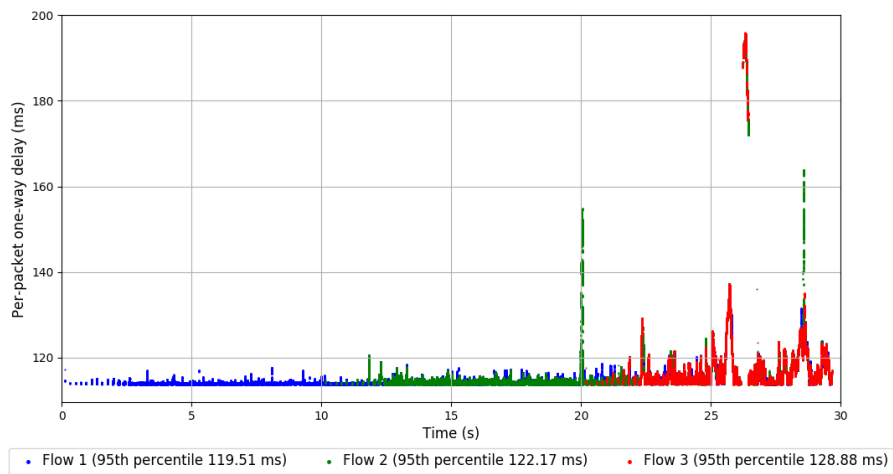
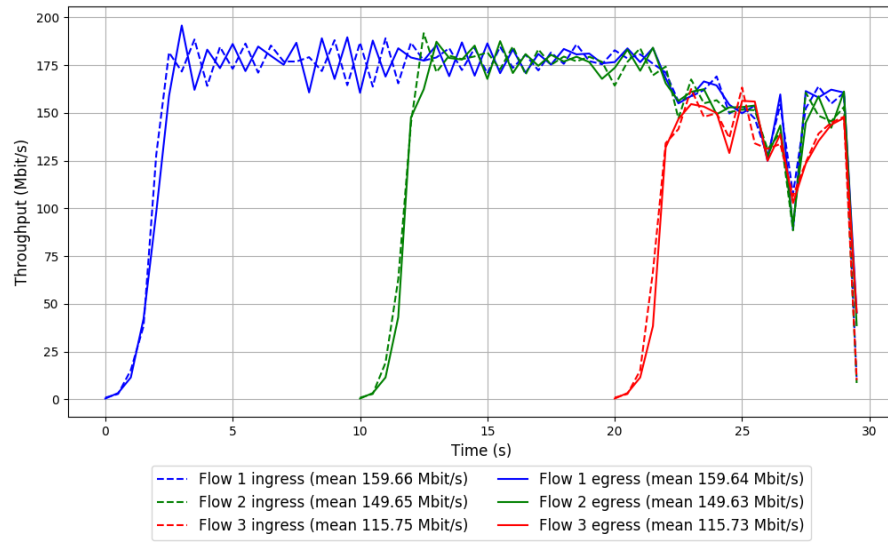


```
Run 9: Statistics of Indigo-calib

Start at: 2017-11-30 23:59:38
End at: 2017-12-01 00:00:08

# Below is generated by plot.py at 2017-12-01 02:10:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 295.55 Mbit/s
95th percentile per-packet one-way delay: 121.790 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 159.64 Mbit/s
95th percentile per-packet one-way delay: 119.506 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 149.63 Mbit/s
95th percentile per-packet one-way delay: 122.173 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 115.73 Mbit/s
95th percentile per-packet one-way delay: 128.875 ms
Loss rate: 0.00%
```

Run 9: Report of Indigo-calib — Data Link



Run 10: Statistics of Indigo-calib

Start at: 2017-12-01 00:12:09

End at: 2017-12-01 00:12:39

Below is generated by plot.py at 2017-12-01 02:10:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 298.88 Mbit/s

95th percentile per-packet one-way delay: 129.365 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 160.25 Mbit/s

95th percentile per-packet one-way delay: 123.572 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 150.42 Mbit/s

95th percentile per-packet one-way delay: 129.497 ms

Loss rate: 0.01%

-- Flow 3:

Average throughput: 122.62 Mbit/s

95th percentile per-packet one-way delay: 137.468 ms

Loss rate: 0.00%

Run 10: Report of Indigo-calib — Data Link

