

Pantheon Report

Generated at 2017-12-06 08:45:57 (UTC).

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

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.

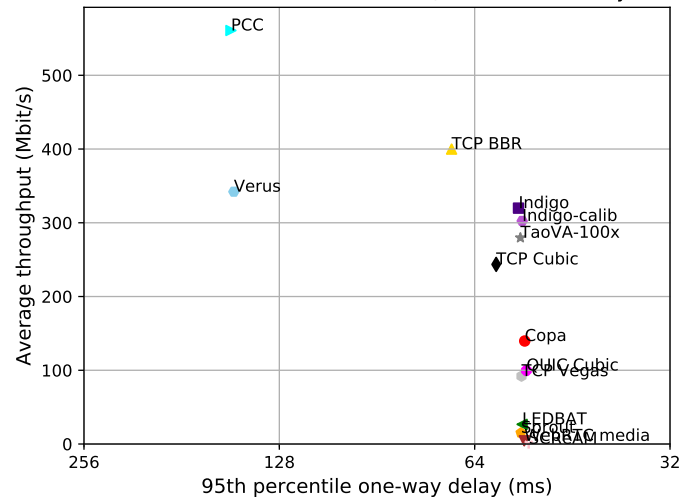
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

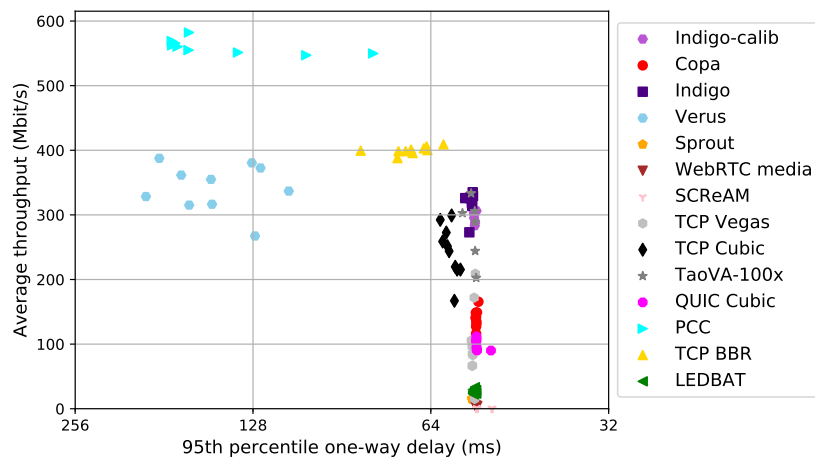
Git summary:

```
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-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eae30b267cde681
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 Tokyo 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 Tokyo 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	205.07	200.78	186.71	67.40	69.53	72.37	0.35	0.60	1.30
TCP Cubic	10	131.59	124.91	88.22	58.75	59.05	58.48	0.43	0.86	2.15
LEDBAT	10	14.92	13.58	8.39	54.05	54.18	54.06	0.64	0.95	1.96
PCC	10	519.05	42.05	42.35	151.95	151.62	144.58	1.69	1.77	3.42
QUIC Cubic	10	54.38	44.03	49.27	52.84	51.59	51.67	0.40	0.84	1.10
SCReAM	9	0.21	4.94	0.22	51.80	798.79	51.99	0.32	0.38	1.07
WebRTC media	9	2.26	1.45	0.62	52.91	53.28	53.59	0.43	0.67	1.57
Sprout	10	7.68	7.65	7.32	54.28	54.32	54.40	0.40	0.58	1.32
TaoVA-100x	6	157.01	143.59	109.57	54.22	54.15	54.06	0.90	0.96	1.86
TCP Vegas	10	59.17	41.78	15.46	54.06	54.23	54.14	0.37	0.62	1.42
Verus	10	205.88	146.66	123.18	149.37	141.71	133.42	1.16	0.78	2.27
Copa	10	68.06	77.53	78.21	53.46	53.58	53.60	0.25	0.60	1.46
Indigo	9	165.73	165.75	136.89	54.35	55.03	55.60	0.34	0.51	1.17
Indigo-calib	10	164.18	144.91	130.58	53.92	54.19	54.40	0.28	0.44	1.20

Run 1: Statistics of TCP BBR

Start at: 2017-12-06 03:39:44

End at: 2017-12-06 03:40:14

Below is generated by plot.py at 2017-12-06 07:46:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 395.76 Mbit/s

95th percentile per-packet one-way delay: 68.701 ms

Loss rate: 0.58%

-- Flow 1:

Average throughput: 204.16 Mbit/s

95th percentile per-packet one-way delay: 66.750 ms

Loss rate: 0.37%

-- Flow 2:

Average throughput: 199.97 Mbit/s

95th percentile per-packet one-way delay: 68.166 ms

Loss rate: 0.58%

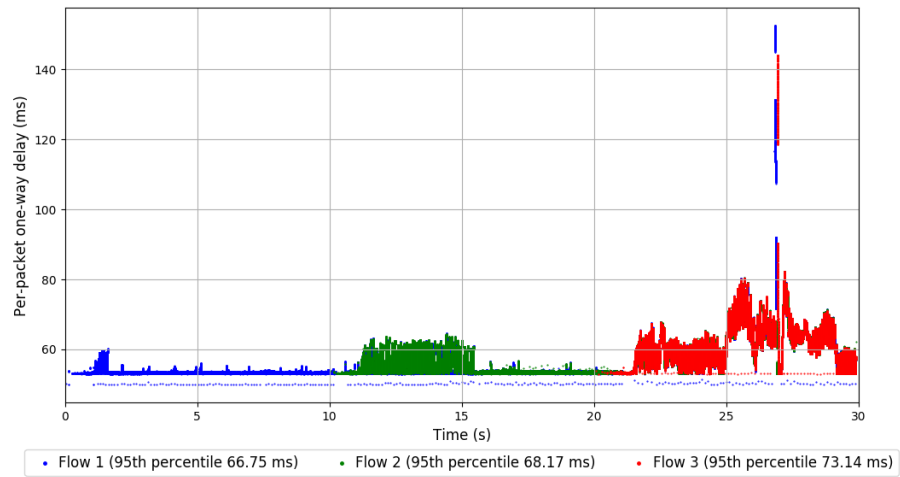
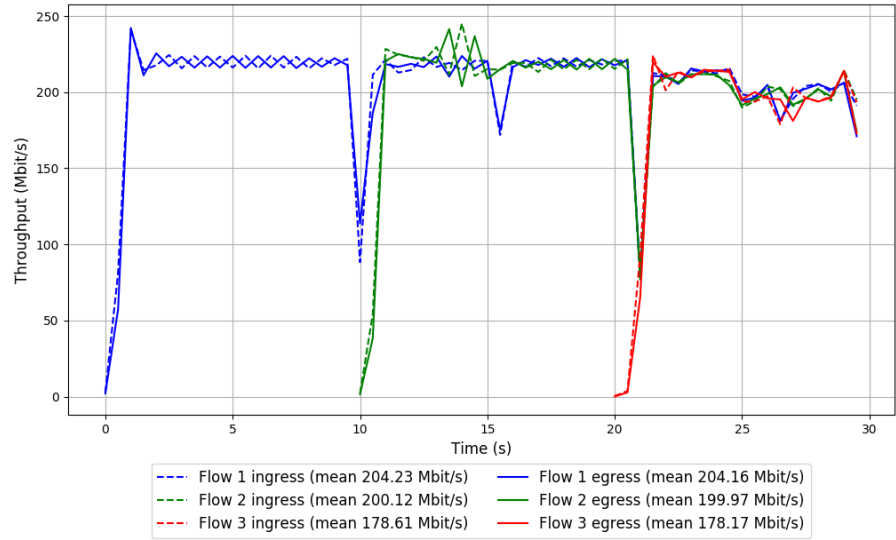
-- Flow 3:

Average throughput: 178.17 Mbit/s

95th percentile per-packet one-way delay: 73.140 ms

Loss rate: 1.29%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2017-12-06 03:52:05

End at: 2017-12-06 03:52:35

Below is generated by plot.py at 2017-12-06 07:46:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 398.55 Mbit/s

95th percentile per-packet one-way delay: 70.600 ms

Loss rate: 0.58%

-- Flow 1:

Average throughput: 206.70 Mbit/s

95th percentile per-packet one-way delay: 69.427 ms

Loss rate: 0.34%

-- Flow 2:

Average throughput: 196.45 Mbit/s

95th percentile per-packet one-way delay: 70.450 ms

Loss rate: 0.61%

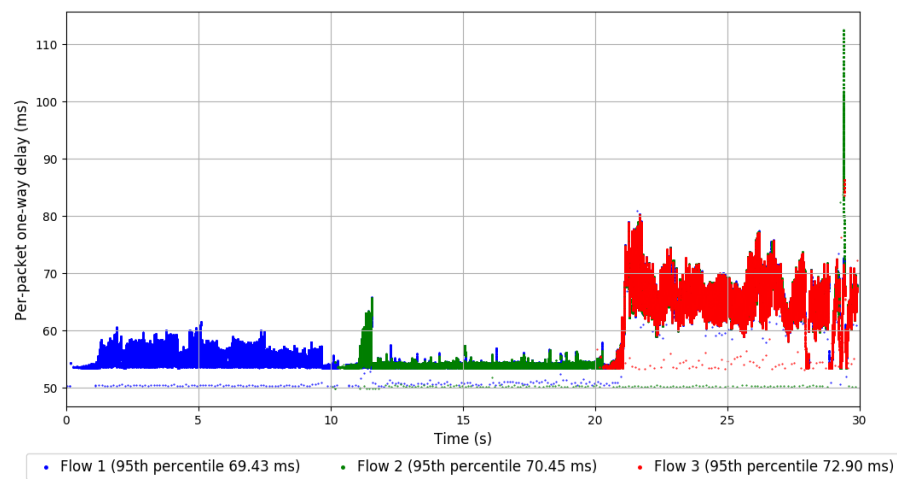
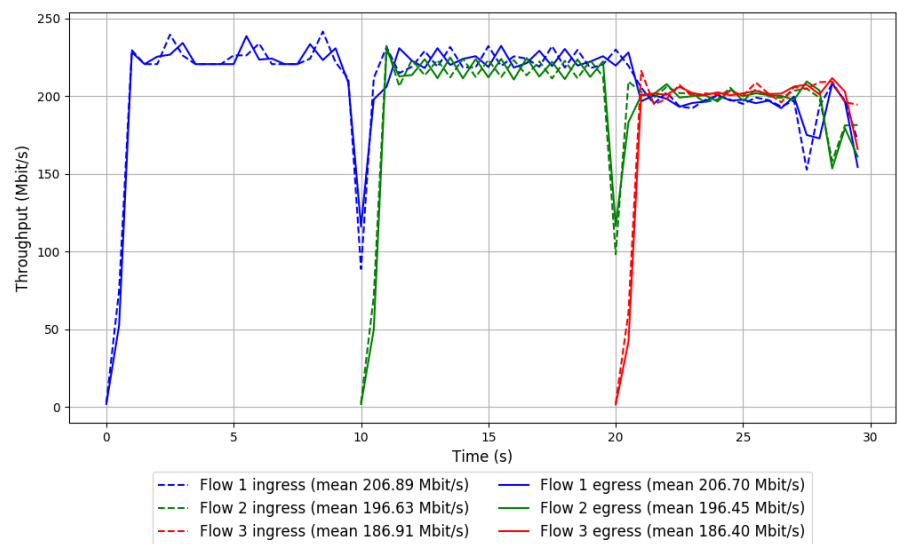
-- Flow 3:

Average throughput: 186.40 Mbit/s

95th percentile per-packet one-way delay: 72.898 ms

Loss rate: 1.33%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2017-12-06 04:04:13

End at: 2017-12-06 04:04:43

Below is generated by plot.py at 2017-12-06 07:46:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 402.93 Mbit/s

95th percentile per-packet one-way delay: 65.770 ms

Loss rate: 0.56%

-- Flow 1:

Average throughput: 204.32 Mbit/s

95th percentile per-packet one-way delay: 65.165 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 201.44 Mbit/s

95th percentile per-packet one-way delay: 66.149 ms

Loss rate: 0.57%

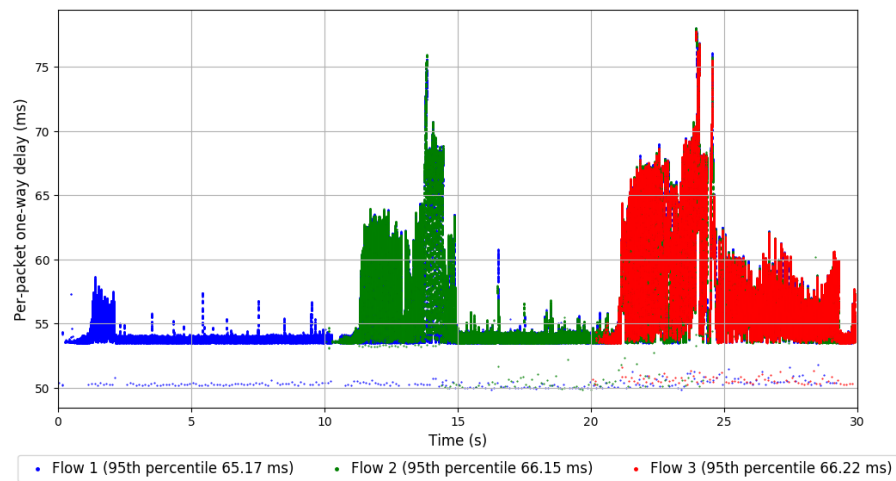
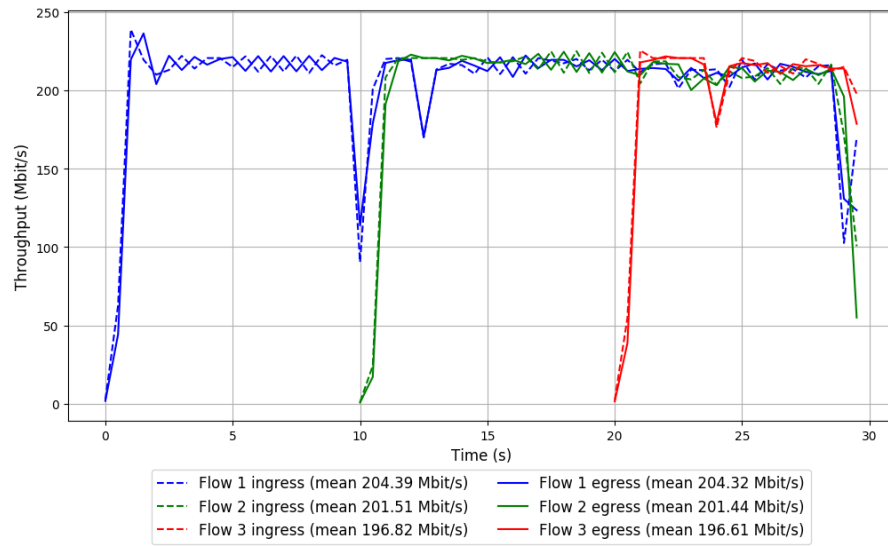
-- Flow 3:

Average throughput: 196.61 Mbit/s

95th percentile per-packet one-way delay: 66.225 ms

Loss rate: 1.13%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2017-12-06 04:16:29

End at: 2017-12-06 04:16:59

Below is generated by plot.py at 2017-12-06 07:46:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 408.99 Mbit/s

95th percentile per-packet one-way delay: 60.914 ms

Loss rate: 0.61%

-- Flow 1:

Average throughput: 207.00 Mbit/s

95th percentile per-packet one-way delay: 59.206 ms

Loss rate: 0.40%

-- Flow 2:

Average throughput: 207.61 Mbit/s

95th percentile per-packet one-way delay: 61.512 ms

Loss rate: 0.61%

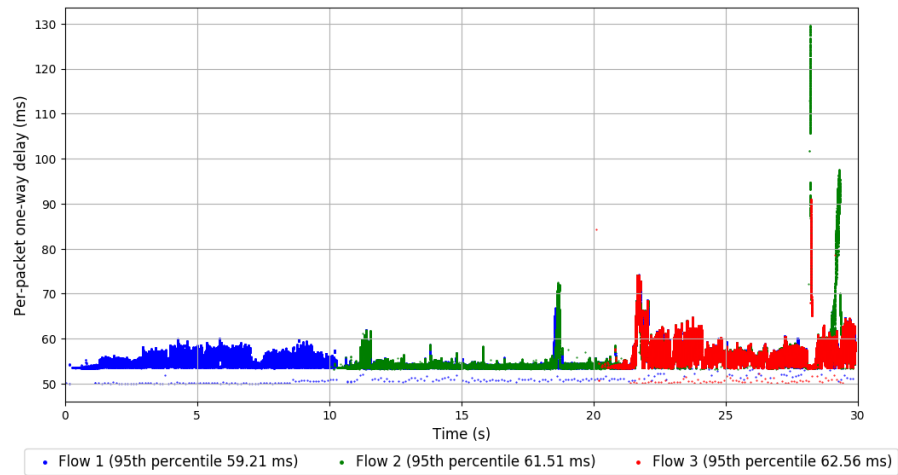
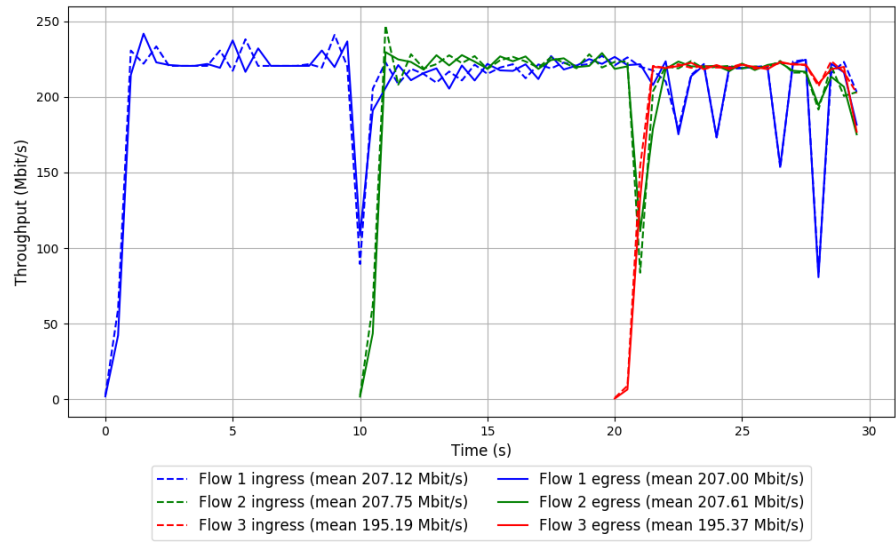
-- Flow 3:

Average throughput: 195.37 Mbit/s

95th percentile per-packet one-way delay: 62.562 ms

Loss rate: 1.30%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2017-12-06 04:28:36

End at: 2017-12-06 04:29:06

Below is generated by plot.py at 2017-12-06 07:46:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 401.08 Mbit/s

95th percentile per-packet one-way delay: 69.111 ms

Loss rate: 0.62%

-- Flow 1:

Average throughput: 204.45 Mbit/s

95th percentile per-packet one-way delay: 67.710 ms

Loss rate: 0.39%

-- Flow 2:

Average throughput: 204.33 Mbit/s

95th percentile per-packet one-way delay: 69.425 ms

Loss rate: 0.62%

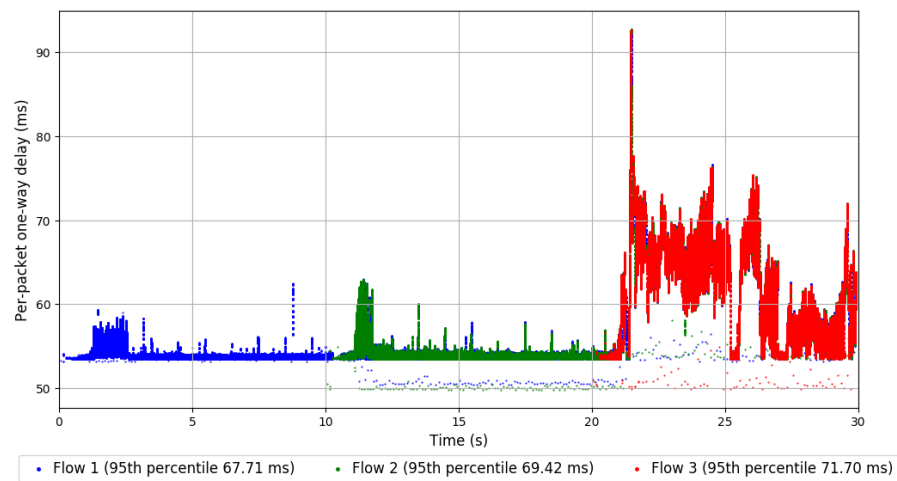
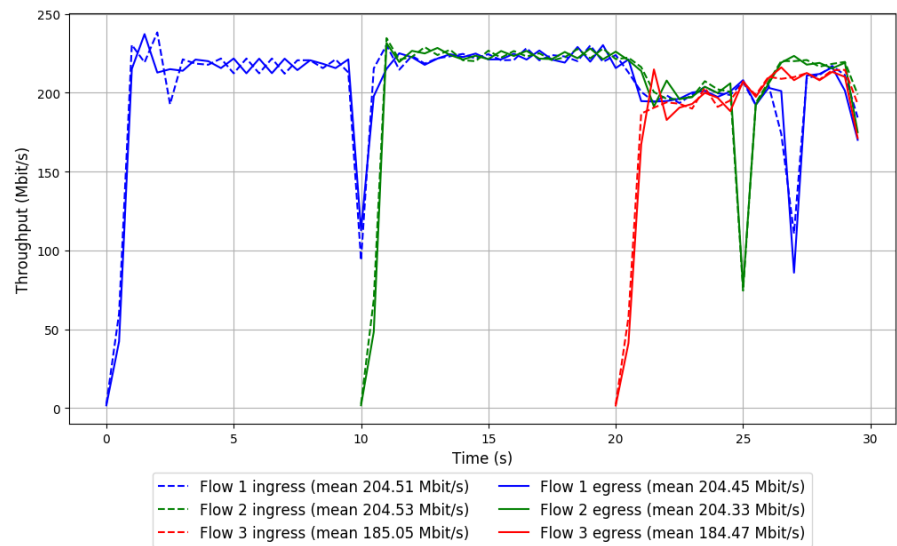
-- Flow 3:

Average throughput: 184.47 Mbit/s

95th percentile per-packet one-way delay: 71.702 ms

Loss rate: 1.37%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2017-12-06 04:40:57

End at: 2017-12-06 04:41:27

Below is generated by plot.py at 2017-12-06 07:46:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 400.19 Mbit/s

95th percentile per-packet one-way delay: 64.853 ms

Loss rate: 0.61%

-- Flow 1:

Average throughput: 207.37 Mbit/s

95th percentile per-packet one-way delay: 63.267 ms

Loss rate: 0.39%

-- Flow 2:

Average throughput: 198.59 Mbit/s

95th percentile per-packet one-way delay: 65.217 ms

Loss rate: 0.61%

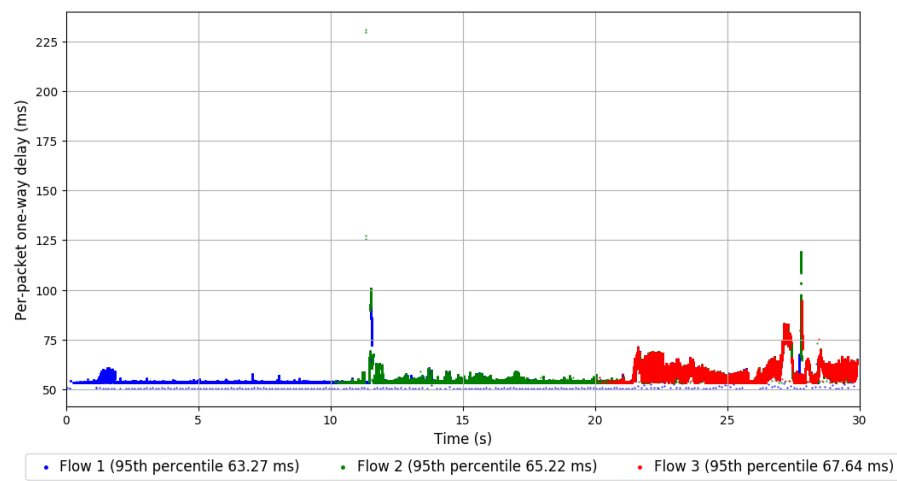
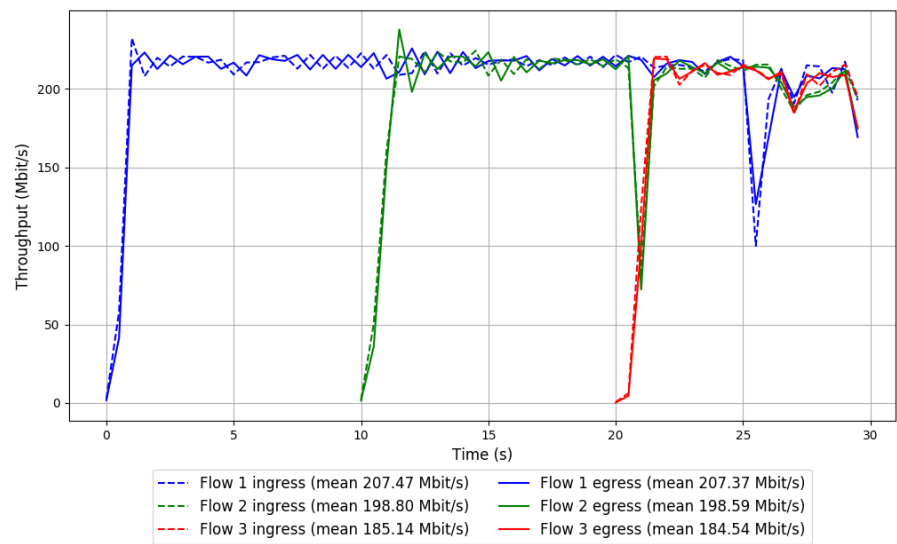
-- Flow 3:

Average throughput: 184.54 Mbit/s

95th percentile per-packet one-way delay: 67.642 ms

Loss rate: 1.38%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2017-12-06 04:53:06

End at: 2017-12-06 04:53:36

Below is generated by plot.py at 2017-12-06 07:46:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 387.87 Mbit/s

95th percentile per-packet one-way delay: 72.875 ms

Loss rate: 0.60%

-- Flow 1:

Average throughput: 198.24 Mbit/s

95th percentile per-packet one-way delay: 71.423 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 195.87 Mbit/s

95th percentile per-packet one-way delay: 72.942 ms

Loss rate: 0.63%

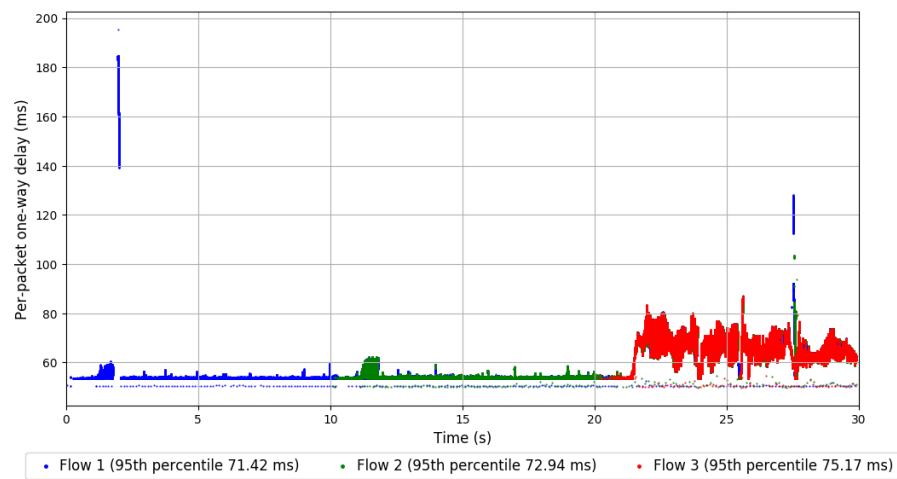
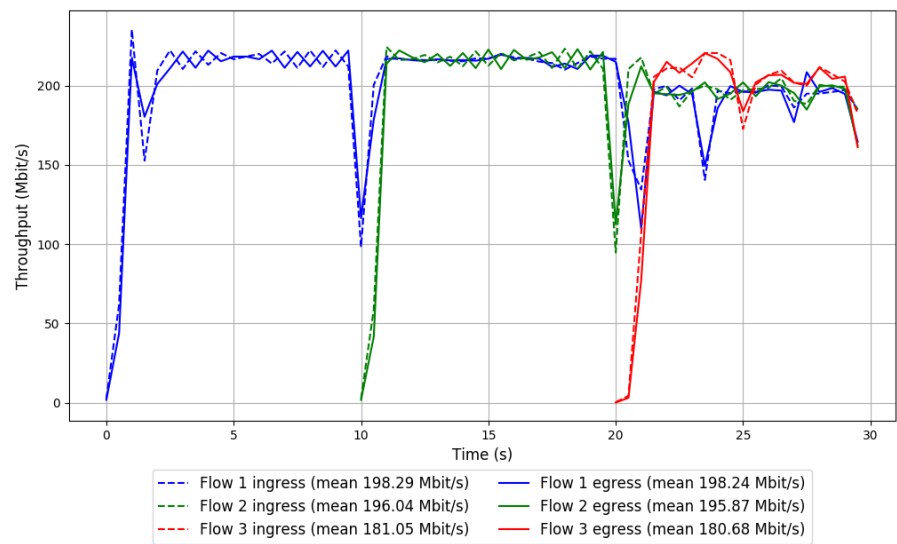
-- Flow 3:

Average throughput: 180.68 Mbit/s

95th percentile per-packet one-way delay: 75.167 ms

Loss rate: 1.30%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2017-12-06 05:05:10

End at: 2017-12-06 05:05:40

Below is generated by plot.py at 2017-12-06 07:46:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 398.57 Mbit/s

95th percentile per-packet one-way delay: 72.604 ms

Loss rate: 0.39%

-- Flow 1:

Average throughput: 205.24 Mbit/s

95th percentile per-packet one-way delay: 69.067 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 202.91 Mbit/s

95th percentile per-packet one-way delay: 72.811 ms

Loss rate: 0.58%

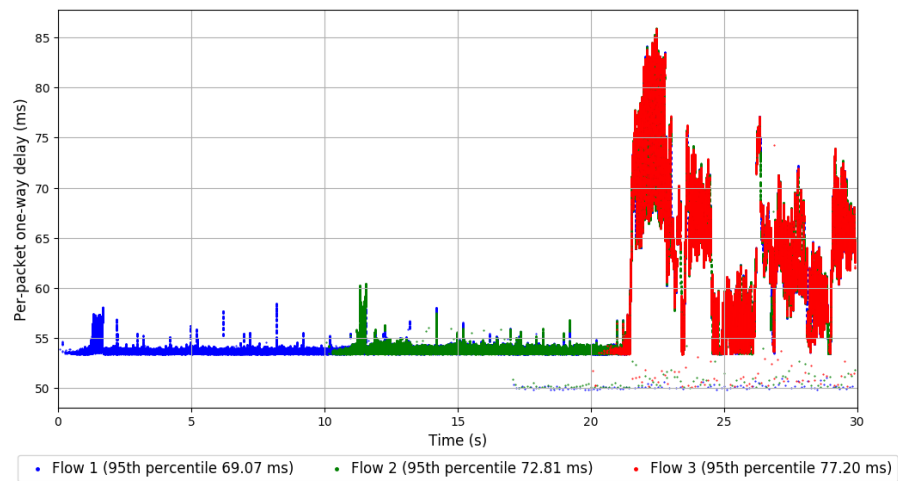
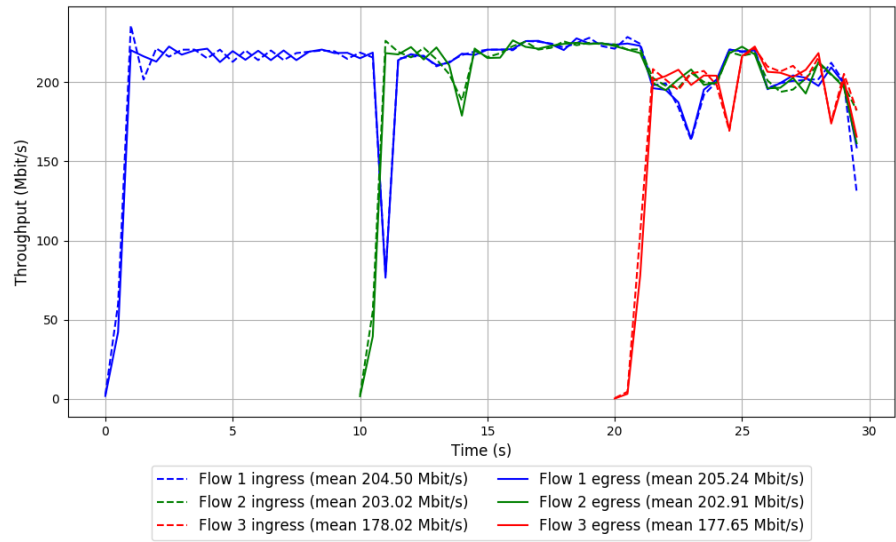
-- Flow 3:

Average throughput: 177.65 Mbit/s

95th percentile per-packet one-way delay: 77.202 ms

Loss rate: 1.31%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2017-12-06 05:17:12

End at: 2017-12-06 05:17:42

Below is generated by plot.py at 2017-12-06 07:53:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 399.42 Mbit/s

95th percentile per-packet one-way delay: 84.114 ms

Loss rate: 0.65%

-- Flow 1:

Average throughput: 208.60 Mbit/s

95th percentile per-packet one-way delay: 79.057 ms

Loss rate: 0.42%

-- Flow 2:

Average throughput: 193.94 Mbit/s

95th percentile per-packet one-way delay: 84.018 ms

Loss rate: 0.67%

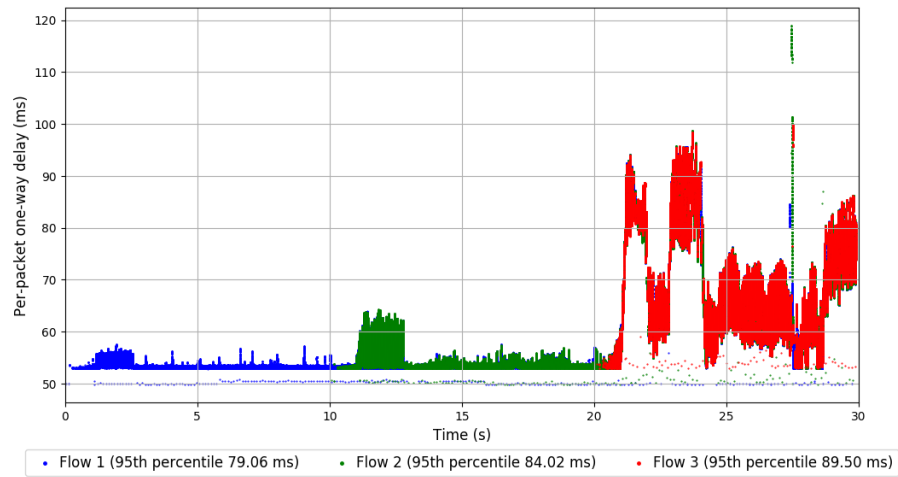
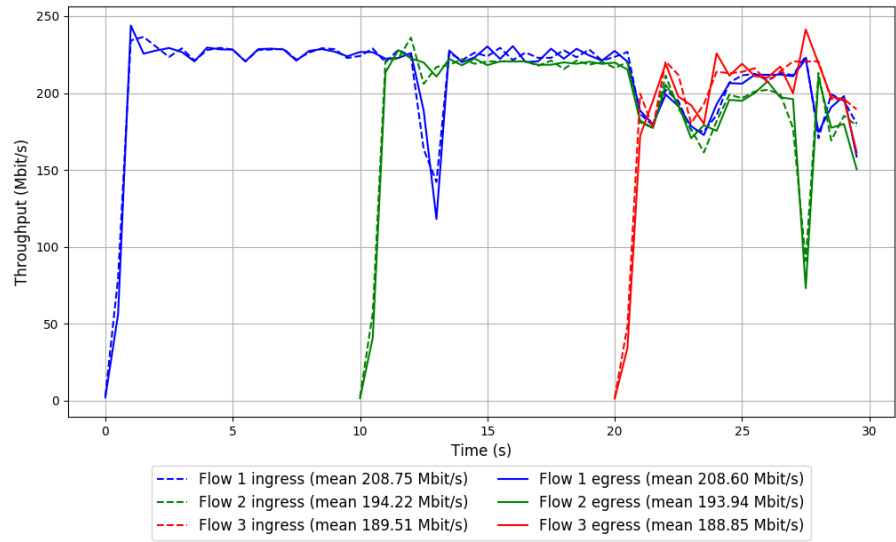
-- Flow 3:

Average throughput: 188.85 Mbit/s

95th percentile per-packet one-way delay: 89.498 ms

Loss rate: 1.39%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2017-12-06 05:29:28

End at: 2017-12-06 05:29:58

Below is generated by plot.py at 2017-12-06 07:53:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 406.05 Mbit/s

95th percentile per-packet one-way delay: 65.073 ms

Loss rate: 0.58%

-- Flow 1:

Average throughput: 204.67 Mbit/s

95th percentile per-packet one-way delay: 62.927 ms

Loss rate: 0.39%

-- Flow 2:

Average throughput: 206.71 Mbit/s

95th percentile per-packet one-way delay: 64.621 ms

Loss rate: 0.56%

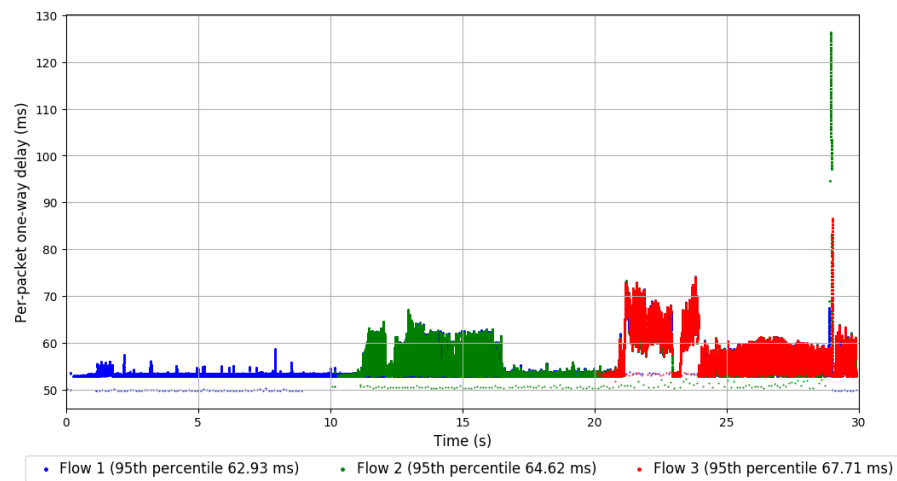
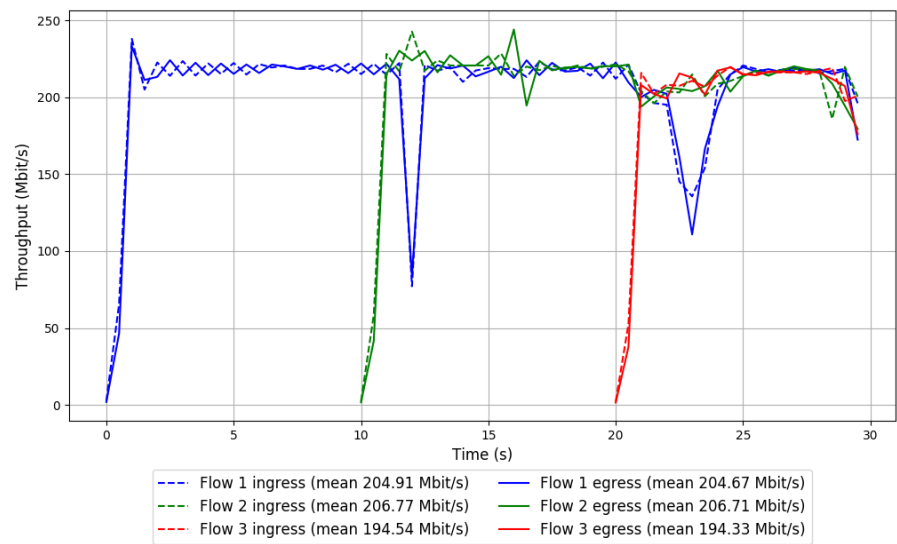
-- Flow 3:

Average throughput: 194.33 Mbit/s

95th percentile per-packet one-way delay: 67.709 ms

Loss rate: 1.20%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2017-12-06 03:33:23

End at: 2017-12-06 03:33:53

Below is generated by plot.py at 2017-12-06 07:53:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 299.10 Mbit/s

95th percentile per-packet one-way delay: 59.019 ms

Loss rate: 0.51%

-- Flow 1:

Average throughput: 138.96 Mbit/s

95th percentile per-packet one-way delay: 58.850 ms

Loss rate: 0.40%

-- Flow 2:

Average throughput: 183.24 Mbit/s

95th percentile per-packet one-way delay: 59.186 ms

Loss rate: 0.42%

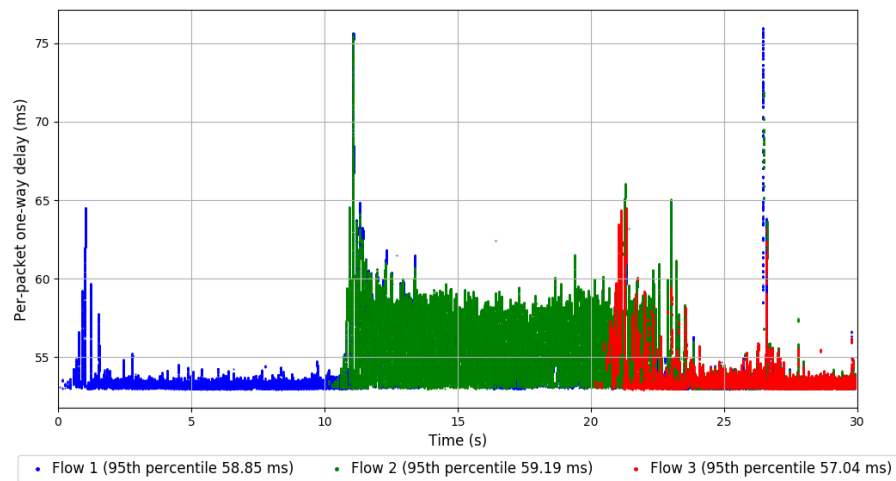
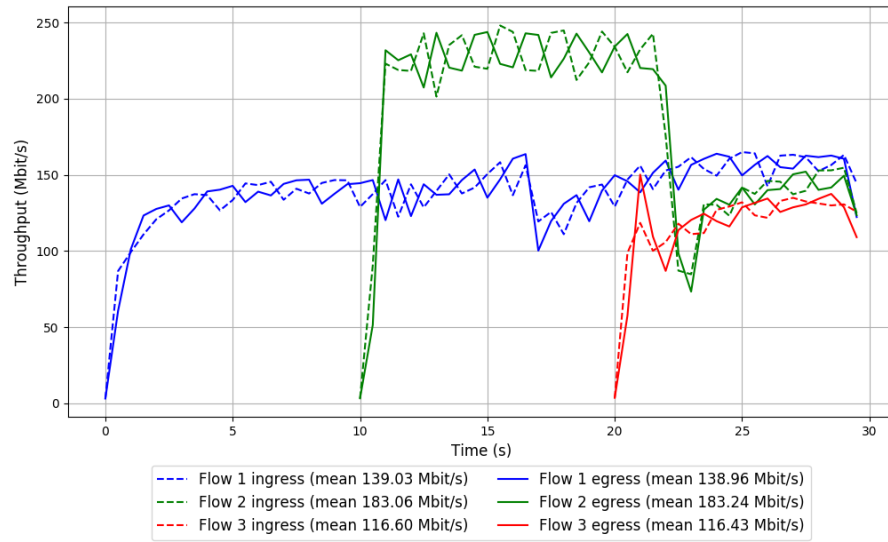
-- Flow 3:

Average throughput: 116.43 Mbit/s

95th percentile per-packet one-way delay: 57.036 ms

Loss rate: 1.19%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2017-12-06 03:45:58

End at: 2017-12-06 03:46:28

Below is generated by plot.py at 2017-12-06 07:53:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 292.36 Mbit/s

95th percentile per-packet one-way delay: 61.685 ms

Loss rate: 0.66%

-- Flow 1:

Average throughput: 146.09 Mbit/s

95th percentile per-packet one-way delay: 61.630 ms

Loss rate: 0.35%

-- Flow 2:

Average throughput: 119.12 Mbit/s

95th percentile per-packet one-way delay: 61.666 ms

Loss rate: 0.76%

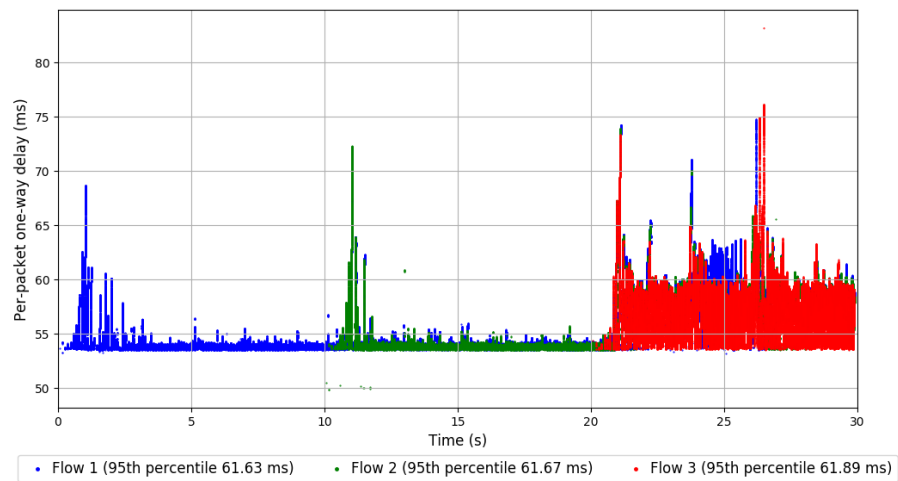
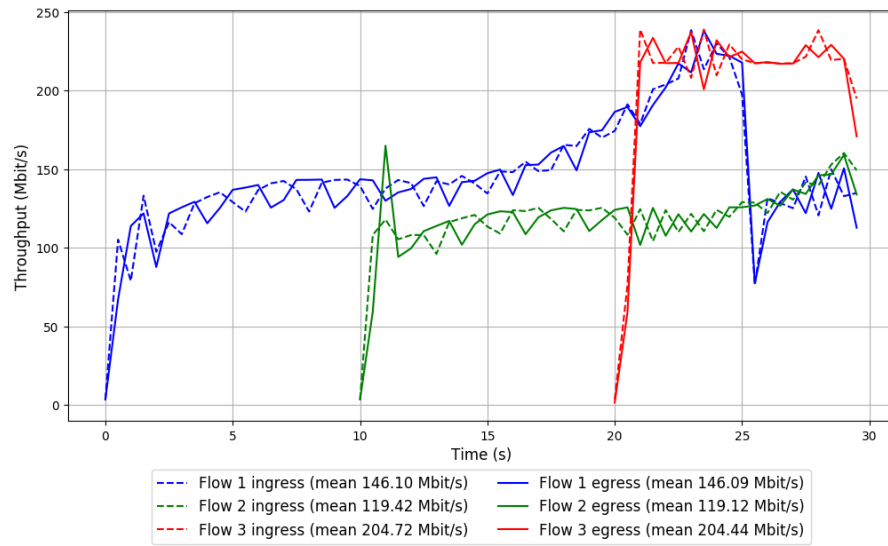
-- Flow 3:

Average throughput: 204.44 Mbit/s

95th percentile per-packet one-way delay: 61.890 ms

Loss rate: 1.20%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2017-12-06 03:58:13

End at: 2017-12-06 03:58:43

Below is generated by plot.py at 2017-12-06 07:53:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 215.35 Mbit/s

95th percentile per-packet one-way delay: 57.020 ms

Loss rate: 0.48%

-- Flow 1:

Average throughput: 133.78 Mbit/s

95th percentile per-packet one-way delay: 57.334 ms

Loss rate: 0.28%

-- Flow 2:

Average throughput: 120.30 Mbit/s

95th percentile per-packet one-way delay: 56.480 ms

Loss rate: 0.75%

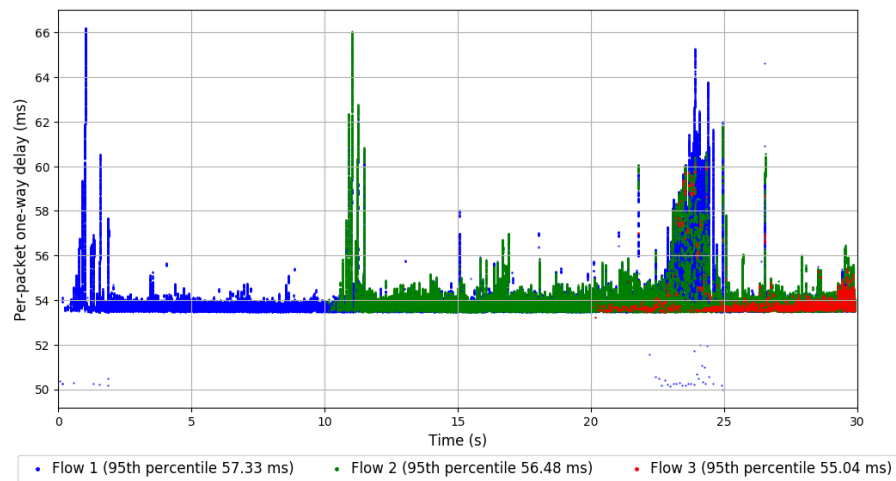
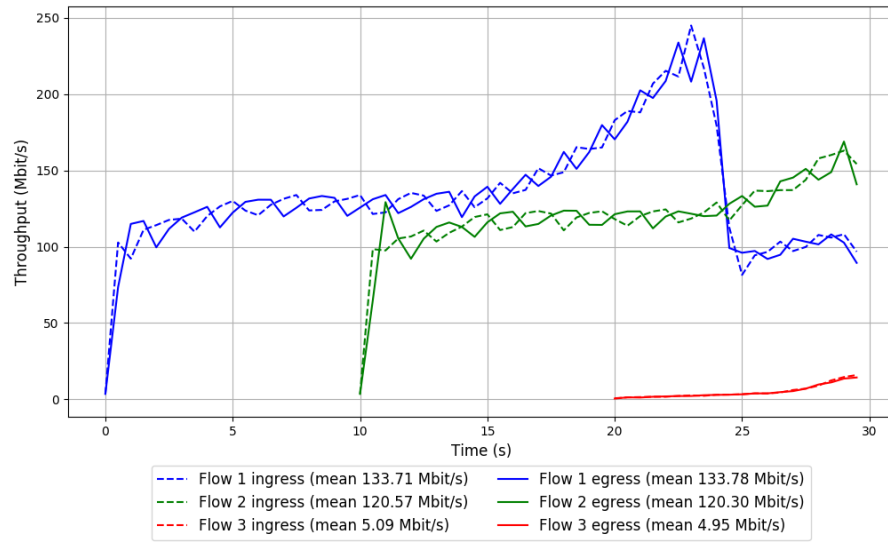
-- Flow 3:

Average throughput: 4.95 Mbit/s

95th percentile per-packet one-way delay: 55.040 ms

Loss rate: 4.12%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2017-12-06 04:10:11

End at: 2017-12-06 04:10:41

Below is generated by plot.py at 2017-12-06 07:53:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 251.55 Mbit/s

95th percentile per-packet one-way delay: 59.990 ms

Loss rate: 0.60%

-- Flow 1:

Average throughput: 132.63 Mbit/s

95th percentile per-packet one-way delay: 59.968 ms

Loss rate: 0.37%

-- Flow 2:

Average throughput: 127.42 Mbit/s

95th percentile per-packet one-way delay: 59.588 ms

Loss rate: 0.72%

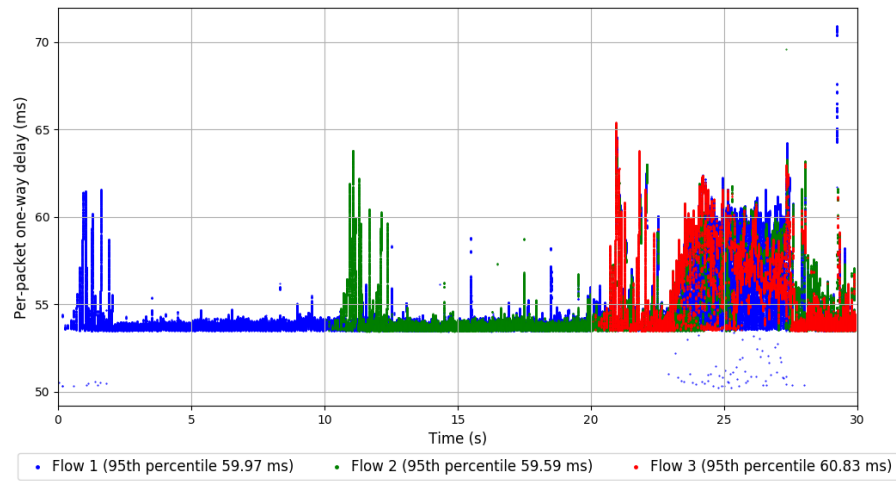
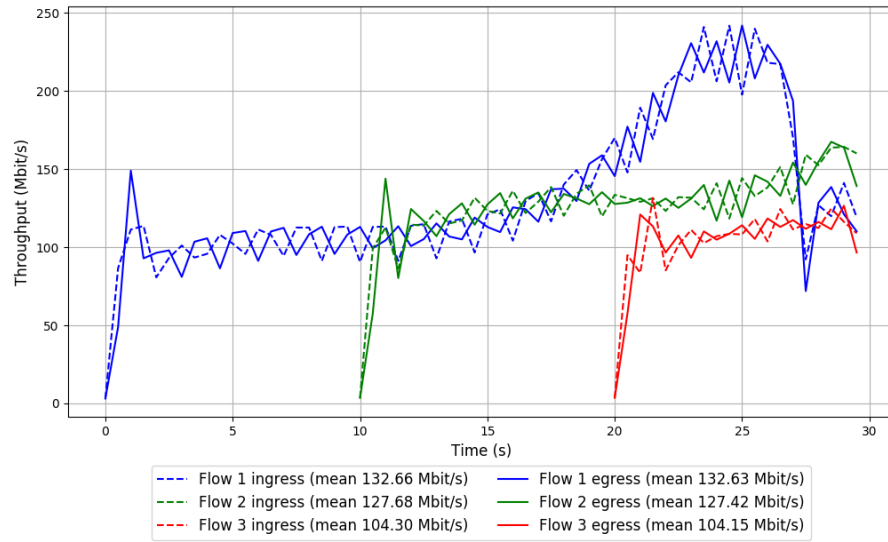
-- Flow 3:

Average throughput: 104.15 Mbit/s

95th percentile per-packet one-way delay: 60.833 ms

Loss rate: 1.21%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2017-12-06 04:22:43

End at: 2017-12-06 04:23:13

Below is generated by plot.py at 2017-12-06 07:53:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 219.67 Mbit/s

95th percentile per-packet one-way delay: 58.187 ms

Loss rate: 0.52%

-- Flow 1:

Average throughput: 125.94 Mbit/s

95th percentile per-packet one-way delay: 55.860 ms

Loss rate: 0.41%

-- Flow 2:

Average throughput: 138.77 Mbit/s

95th percentile per-packet one-way delay: 59.389 ms

Loss rate: 0.61%

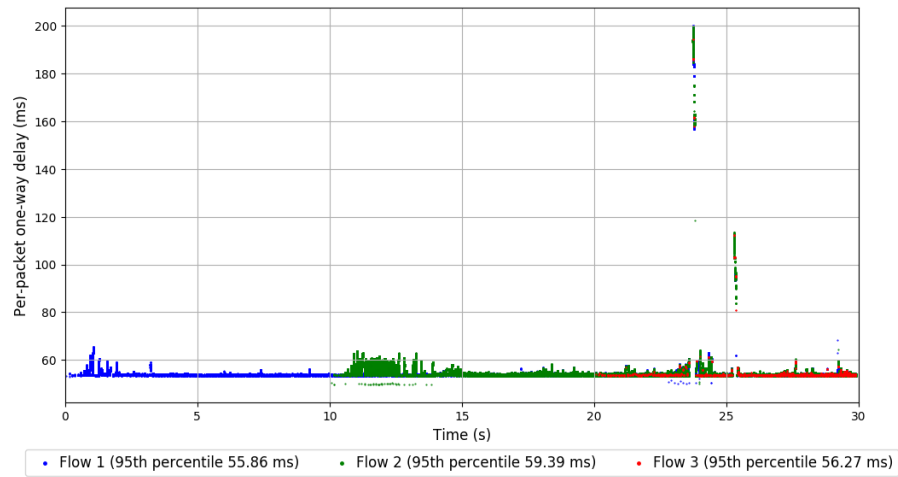
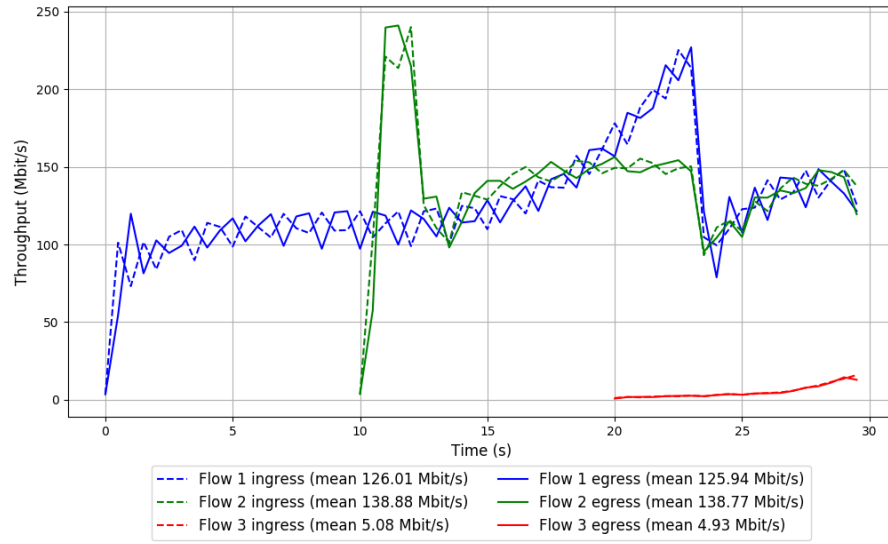
-- Flow 3:

Average throughput: 4.93 Mbit/s

95th percentile per-packet one-way delay: 56.275 ms

Loss rate: 4.00%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2017-12-06 04:34:50

End at: 2017-12-06 04:35:20

Below is generated by plot.py at 2017-12-06 07:53:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 272.63 Mbit/s

95th percentile per-packet one-way delay: 60.252 ms

Loss rate: 0.50%

-- Flow 1:

Average throughput: 128.21 Mbit/s

95th percentile per-packet one-way delay: 58.725 ms

Loss rate: 0.29%

-- Flow 2:

Average throughput: 160.79 Mbit/s

95th percentile per-packet one-way delay: 60.838 ms

Loss rate: 0.49%

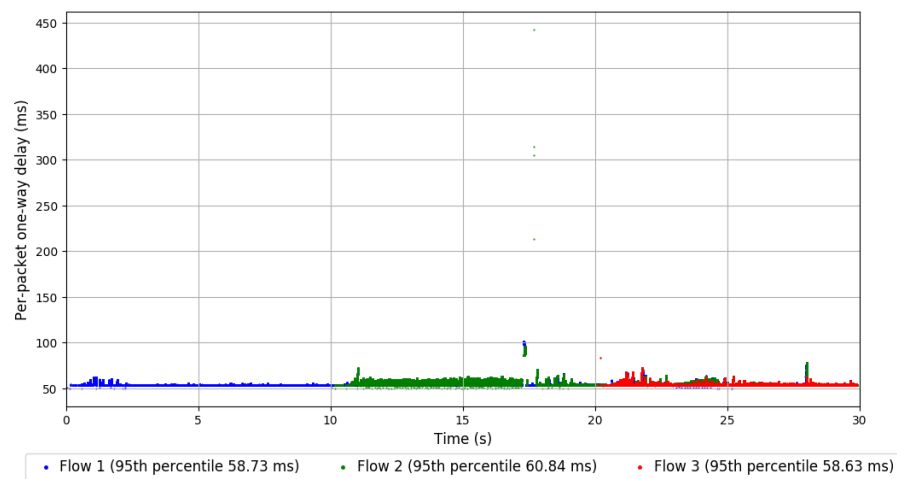
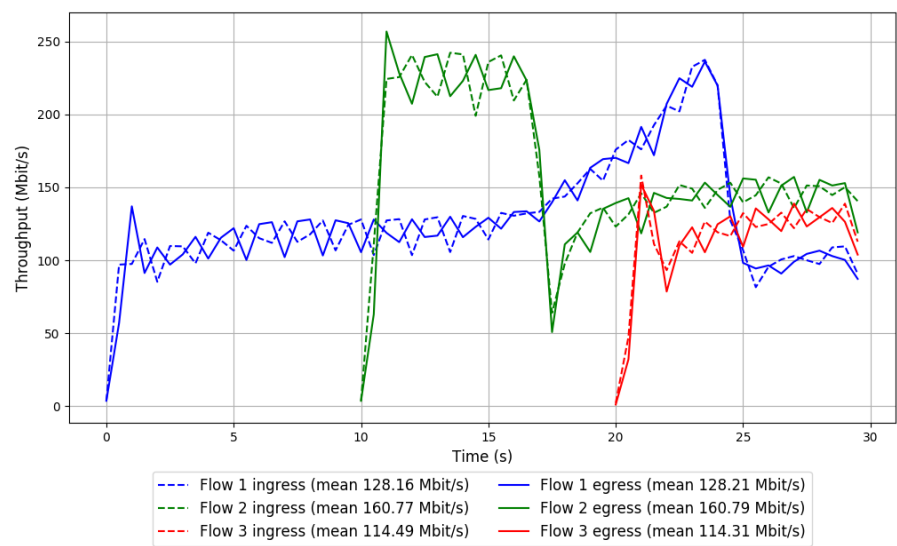
-- Flow 3:

Average throughput: 114.31 Mbit/s

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

Loss rate: 1.24%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2017-12-06 04:46:59

End at: 2017-12-06 04:47:29

Below is generated by plot.py at 2017-12-06 07:54:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 215.31 Mbit/s

95th percentile per-packet one-way delay: 57.762 ms

Loss rate: 0.78%

-- Flow 1:

Average throughput: 101.94 Mbit/s

95th percentile per-packet one-way delay: 56.739 ms

Loss rate: 0.84%

-- Flow 2:

Average throughput: 129.28 Mbit/s

95th percentile per-packet one-way delay: 58.584 ms

Loss rate: 0.60%

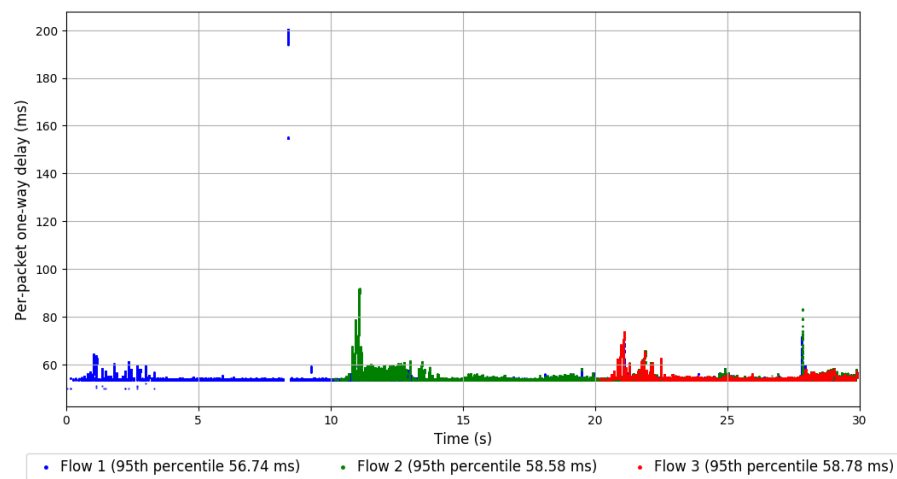
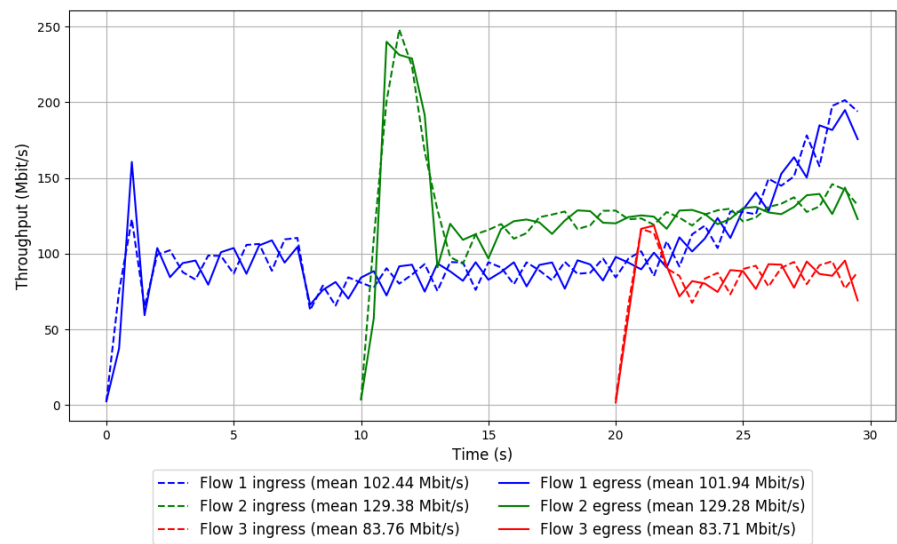
-- Flow 3:

Average throughput: 83.71 Mbit/s

95th percentile per-packet one-way delay: 58.777 ms

Loss rate: 1.14%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2017-12-06 04:59:15

End at: 2017-12-06 04:59:45

Below is generated by plot.py at 2017-12-06 07:54:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 167.05 Mbit/s

95th percentile per-packet one-way delay: 58.376 ms

Loss rate: 0.76%

-- Flow 1:

Average throughput: 105.71 Mbit/s

95th percentile per-packet one-way delay: 57.588 ms

Loss rate: 0.34%

-- Flow 2:

Average throughput: 21.23 Mbit/s

95th percentile per-packet one-way delay: 55.042 ms

Loss rate: 2.77%

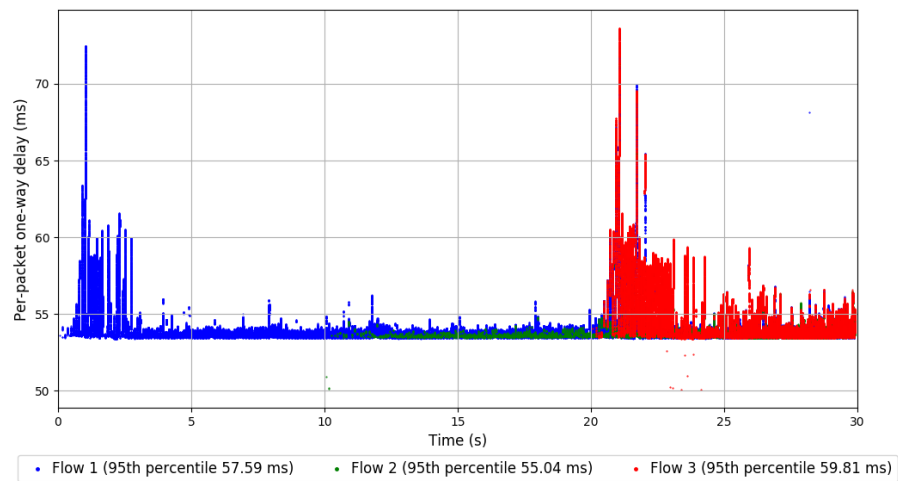
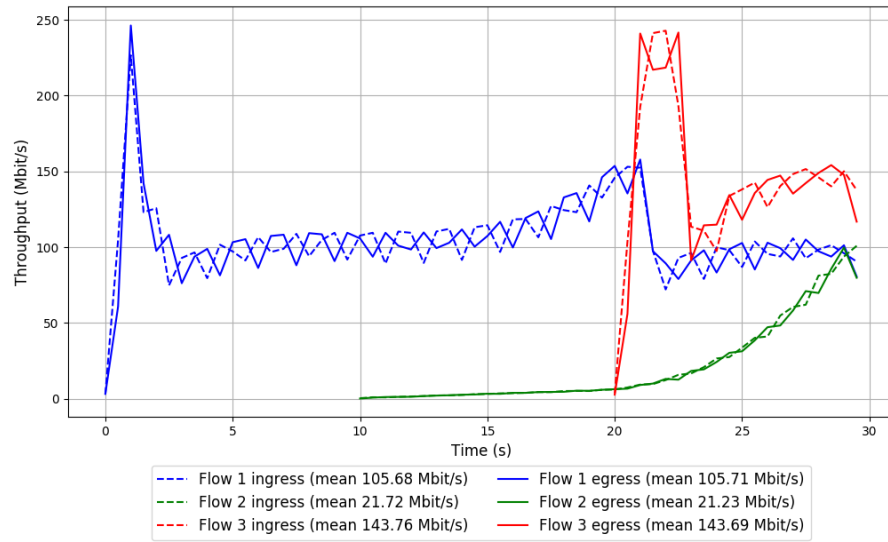
-- Flow 3:

Average throughput: 143.69 Mbit/s

95th percentile per-packet one-way delay: 59.806 ms

Loss rate: 1.10%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2017-12-06 05:11:06

End at: 2017-12-06 05:11:36

Below is generated by plot.py at 2017-12-06 07:55:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 258.87 Mbit/s

95th percentile per-packet one-way delay: 61.113 ms

Loss rate: 0.81%

-- Flow 1:

Average throughput: 148.07 Mbit/s

95th percentile per-packet one-way delay: 60.847 ms

Loss rate: 0.48%

-- Flow 2:

Average throughput: 116.93 Mbit/s

95th percentile per-packet one-way delay: 61.726 ms

Loss rate: 0.73%

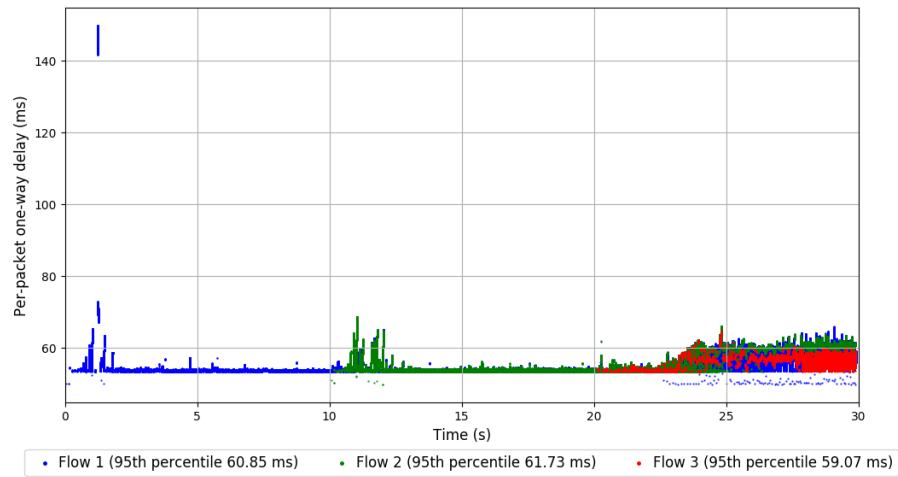
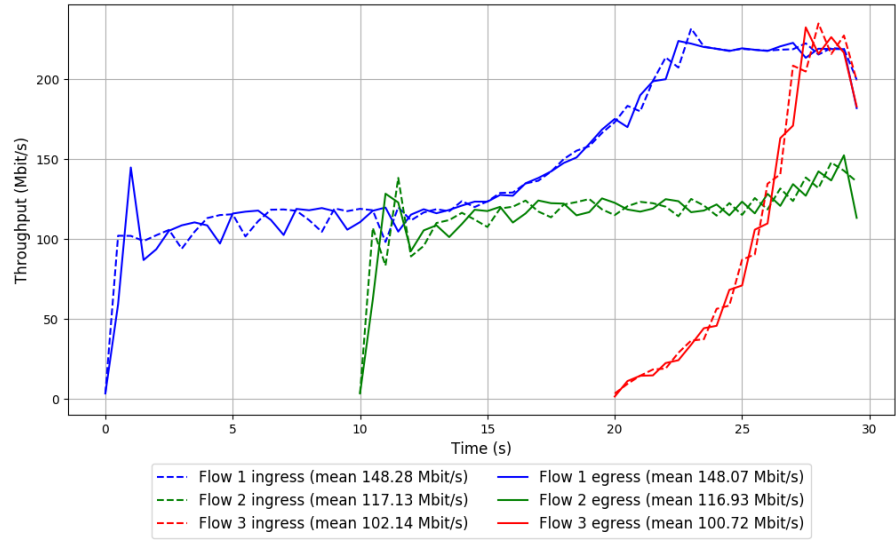
-- Flow 3:

Average throughput: 100.72 Mbit/s

95th percentile per-packet one-way delay: 59.071 ms

Loss rate: 2.46%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2017-12-06 05:23:15

End at: 2017-12-06 05:23:45

Below is generated by plot.py at 2017-12-06 07:55:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 243.87 Mbit/s

95th percentile per-packet one-way delay: 59.594 ms

Loss rate: 0.63%

-- Flow 1:

Average throughput: 154.56 Mbit/s

95th percentile per-packet one-way delay: 59.909 ms

Loss rate: 0.54%

-- Flow 2:

Average throughput: 132.05 Mbit/s

95th percentile per-packet one-way delay: 57.979 ms

Loss rate: 0.72%

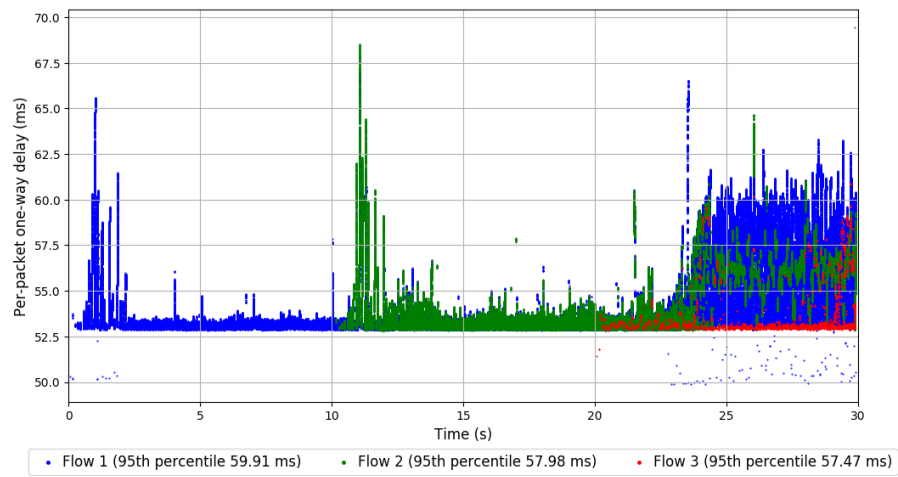
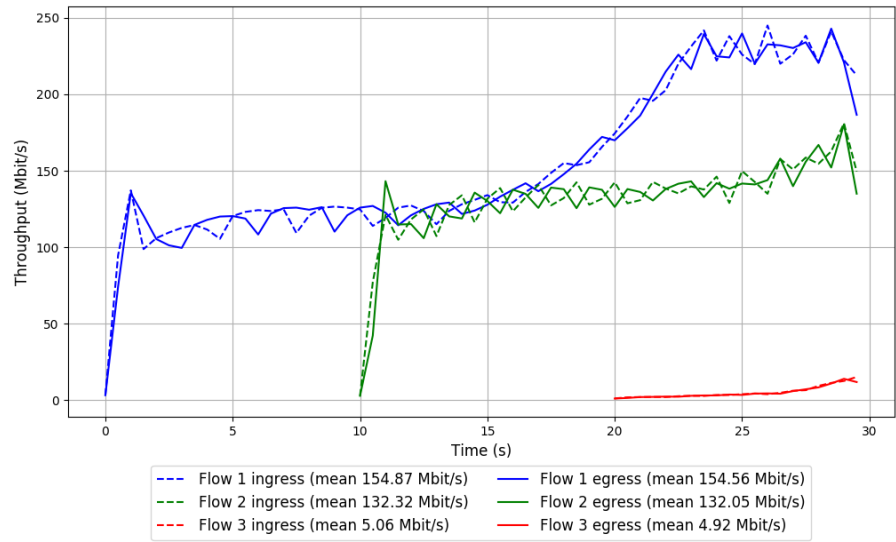
-- Flow 3:

Average throughput: 4.92 Mbit/s

95th percentile per-packet one-way delay: 57.470 ms

Loss rate: 3.80%

Run 10: Report of TCP Cubic — Data Link

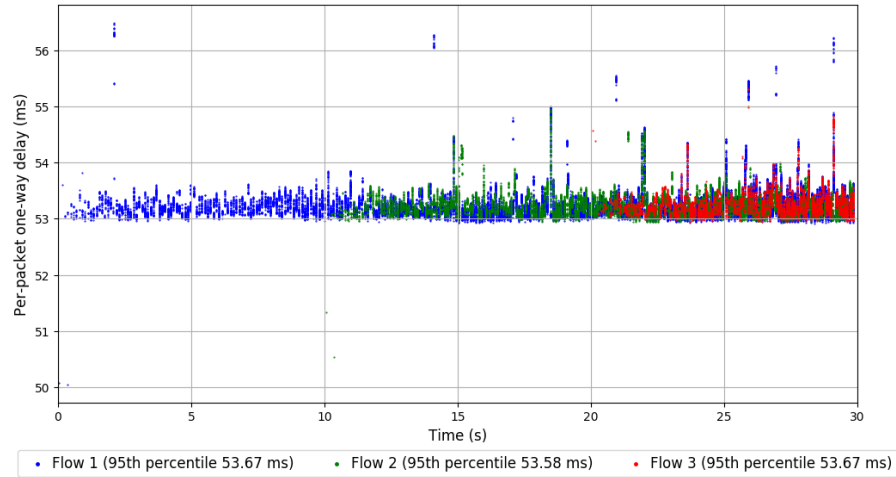
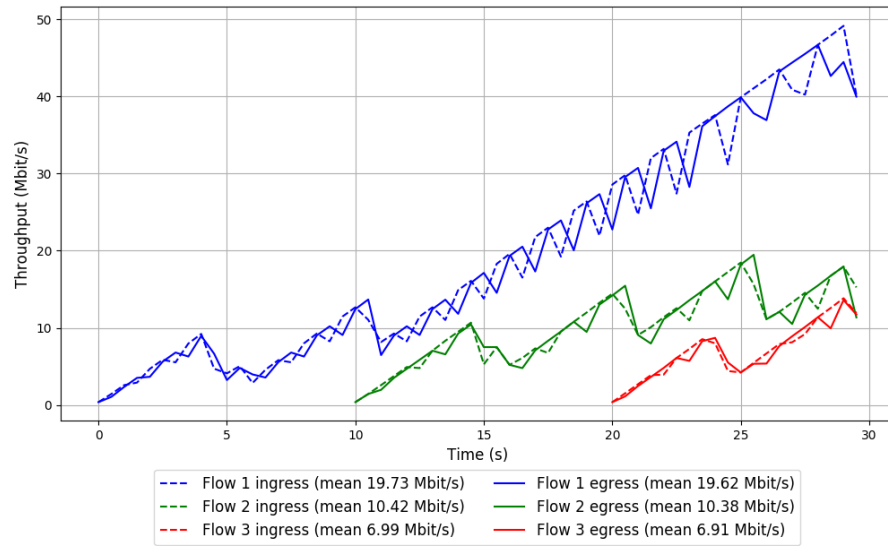


```
Run 1: Statistics of LEDBAT

Start at: 2017-12-06 03:36:13
End at: 2017-12-06 03:36:43

# Below is generated by plot.py at 2017-12-06 07:55:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 28.77 Mbit/s
95th percentile per-packet one-way delay: 53.630 ms
Loss rate: 0.99%
-- Flow 1:
Average throughput: 19.62 Mbit/s
95th percentile per-packet one-way delay: 53.666 ms
Loss rate: 0.86%
-- Flow 2:
Average throughput: 10.38 Mbit/s
95th percentile per-packet one-way delay: 53.576 ms
Loss rate: 0.94%
-- Flow 3:
Average throughput: 6.91 Mbit/s
95th percentile per-packet one-way delay: 53.672 ms
Loss rate: 2.21%
```


Run 1: Report of LEDBAT — Data Link

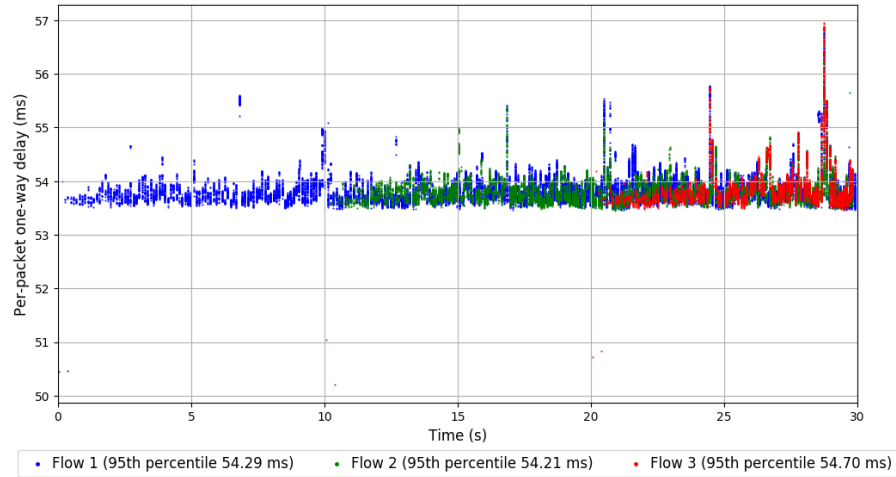
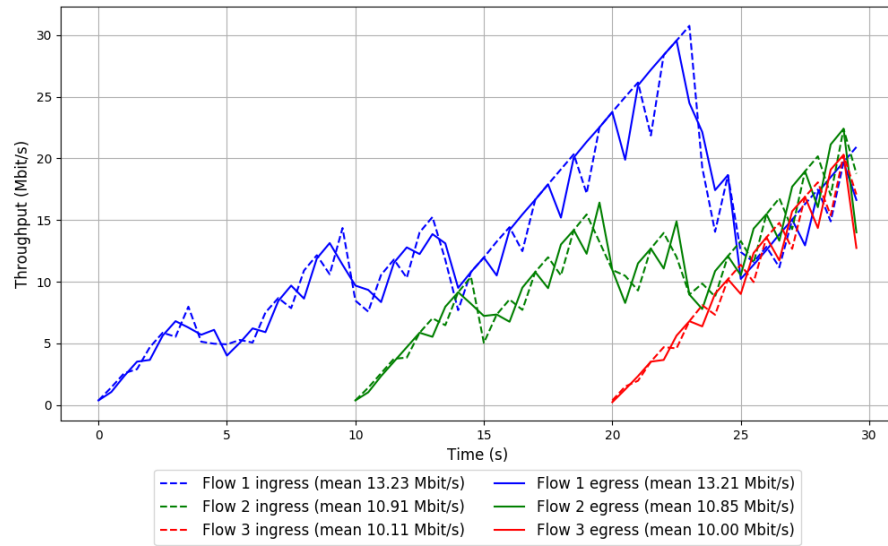


```
Run 2: Statistics of LEDBAT

Start at: 2017-12-06 03:48:44
End at: 2017-12-06 03:49:14

# Below is generated by plot.py at 2017-12-06 07:55:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 23.65 Mbit/s
95th percentile per-packet one-way delay: 54.358 ms
Loss rate: 0.94%
-- Flow 1:
Average throughput: 13.21 Mbit/s
95th percentile per-packet one-way delay: 54.293 ms
Loss rate: 0.54%
-- Flow 2:
Average throughput: 10.85 Mbit/s
95th percentile per-packet one-way delay: 54.213 ms
Loss rate: 1.10%
-- Flow 3:
Average throughput: 10.00 Mbit/s
95th percentile per-packet one-way delay: 54.700 ms
Loss rate: 2.18%
```

Run 2: Report of LEDBAT — Data Link

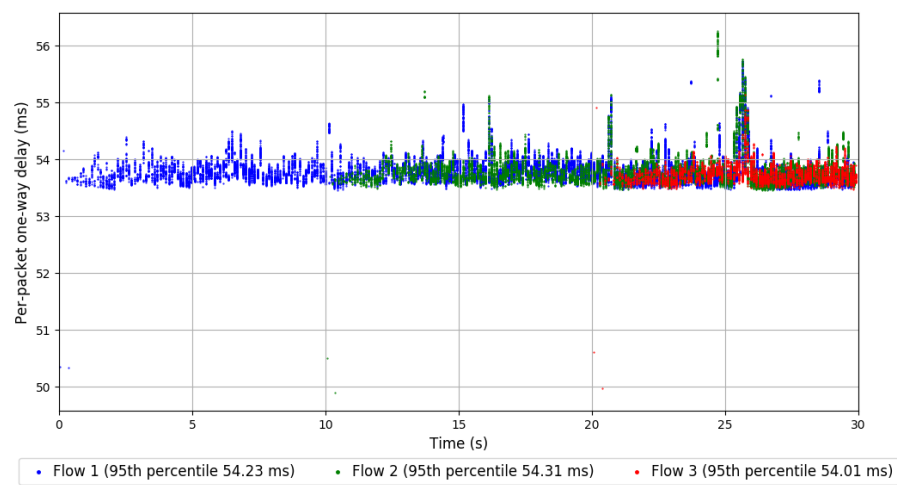
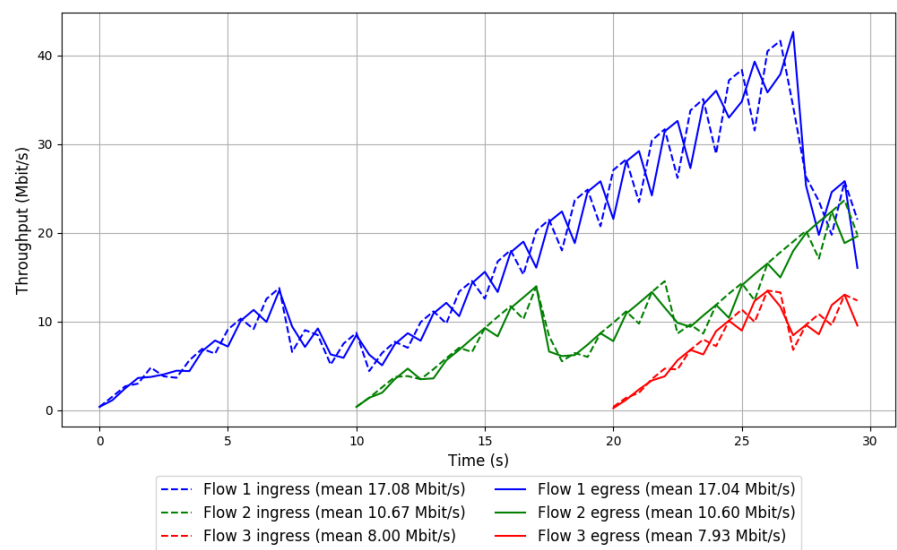


```
Run 3: Statistics of LEDBAT

Start at: 2017-12-06 04:00:57
End at: 2017-12-06 04:01:27

# Below is generated by plot.py at 2017-12-06 07:55:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 26.63 Mbit/s
95th percentile per-packet one-way delay: 54.223 ms
Loss rate: 0.83%
-- Flow 1:
Average throughput: 17.04 Mbit/s
95th percentile per-packet one-way delay: 54.228 ms
Loss rate: 0.54%
-- Flow 2:
Average throughput: 10.60 Mbit/s
95th percentile per-packet one-way delay: 54.315 ms
Loss rate: 1.18%
-- Flow 3:
Average throughput: 7.93 Mbit/s
95th percentile per-packet one-way delay: 54.008 ms
Loss rate: 1.77%
```

Run 3: Report of LEDBAT — Data Link

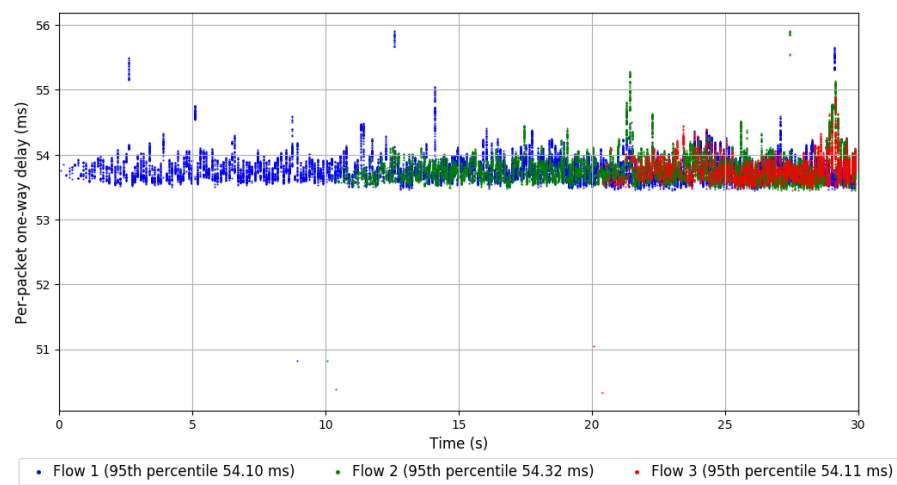
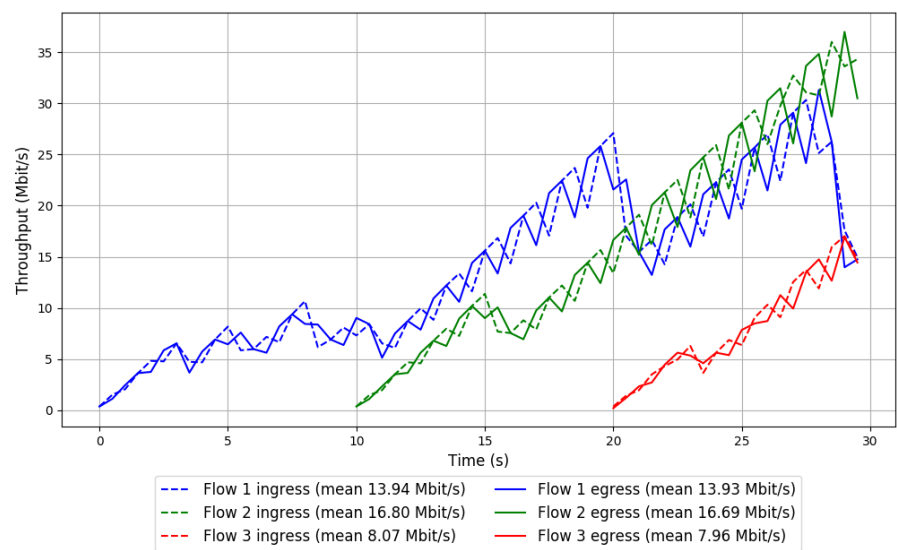


```
Run 4: Statistics of LEDBAT

Start at: 2017-12-06 04:13:04
End at: 2017-12-06 04:13:34

# Below is generated by plot.py at 2017-12-06 07:55:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 27.62 Mbit/s
95th percentile per-packet one-way delay: 54.151 ms
Loss rate: 0.92%
-- Flow 1:
Average throughput: 13.93 Mbit/s
95th percentile per-packet one-way delay: 54.102 ms
Loss rate: 0.46%
-- Flow 2:
Average throughput: 16.69 Mbit/s
95th percentile per-packet one-way delay: 54.317 ms
Loss rate: 1.16%
-- Flow 3:
Average throughput: 7.96 Mbit/s
95th percentile per-packet one-way delay: 54.109 ms
Loss rate: 2.33%
```

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2017-12-06 04:25:24

End at: 2017-12-06 04:25:54

Below is generated by plot.py at 2017-12-06 07:55:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 29.50 Mbit/s

95th percentile per-packet one-way delay: 54.337 ms

Loss rate: 0.96%

-- Flow 1:

Average throughput: 16.15 Mbit/s

95th percentile per-packet one-way delay: 54.255 ms

Loss rate: 0.63%

-- Flow 2:

Average throughput: 16.06 Mbit/s

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

Loss rate: 1.18%

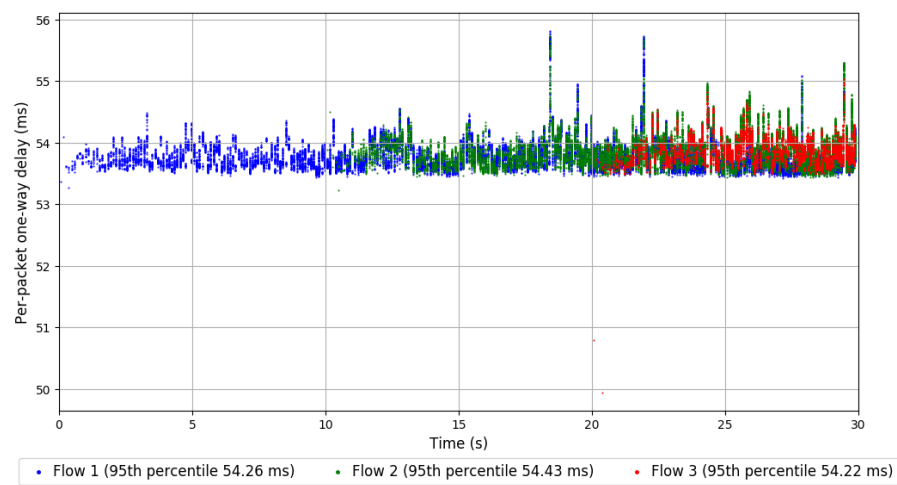
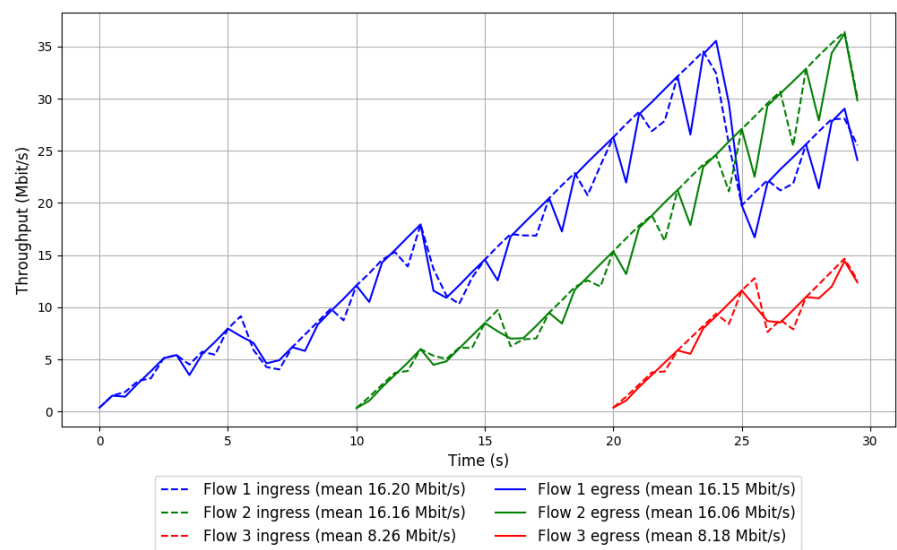
-- Flow 3:

Average throughput: 8.18 Mbit/s

95th percentile per-packet one-way delay: 54.217 ms

Loss rate: 1.98%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2017-12-06 04:37:34

End at: 2017-12-06 04:38:04

Below is generated by plot.py at 2017-12-06 07:55:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 25.57 Mbit/s

95th percentile per-packet one-way delay: 54.282 ms

Loss rate: 1.01%

-- Flow 1:

Average throughput: 10.36 Mbit/s

95th percentile per-packet one-way delay: 54.100 ms

Loss rate: 0.57%

-- Flow 2:

Average throughput: 19.47 Mbit/s

95th percentile per-packet one-way delay: 54.490 ms

Loss rate: 1.10%

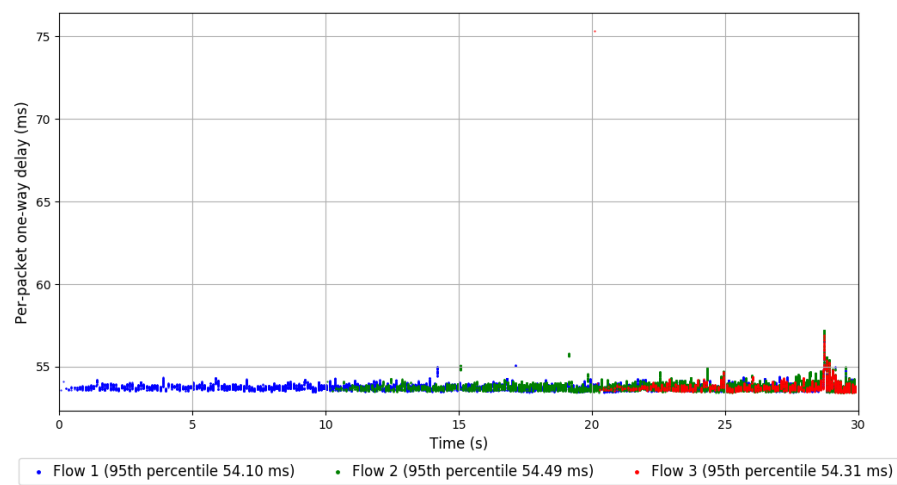
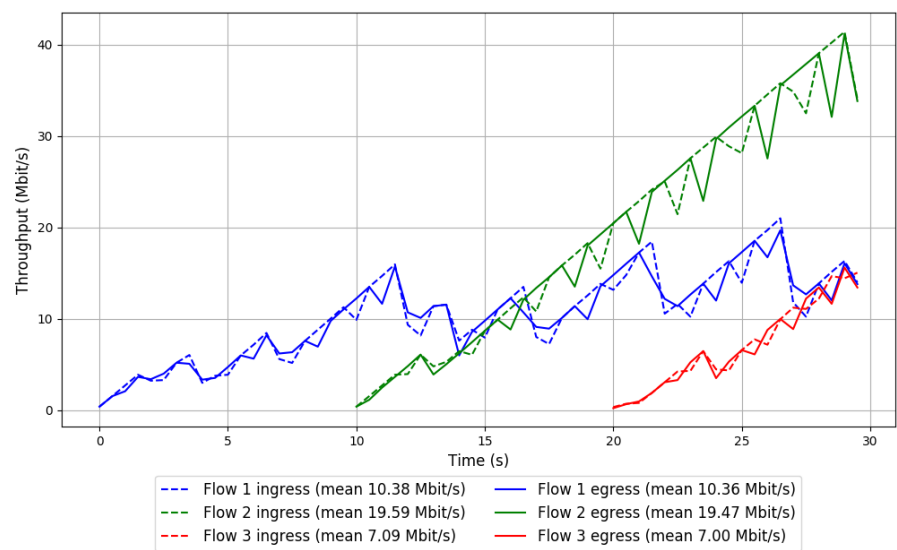
-- Flow 3:

Average throughput: 7.00 Mbit/s

95th percentile per-packet one-way delay: 54.310 ms

Loss rate: 2.47%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2017-12-06 04:49:45

End at: 2017-12-06 04:50:15

Below is generated by plot.py at 2017-12-06 07:55:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 22.18 Mbit/s

95th percentile per-packet one-way delay: 54.119 ms

Loss rate: 0.91%

-- Flow 1:

Average throughput: 11.99 Mbit/s

95th percentile per-packet one-way delay: 54.085 ms

Loss rate: 0.74%

-- Flow 2:

Average throughput: 11.32 Mbit/s

95th percentile per-packet one-way delay: 54.312 ms

Loss rate: 0.86%

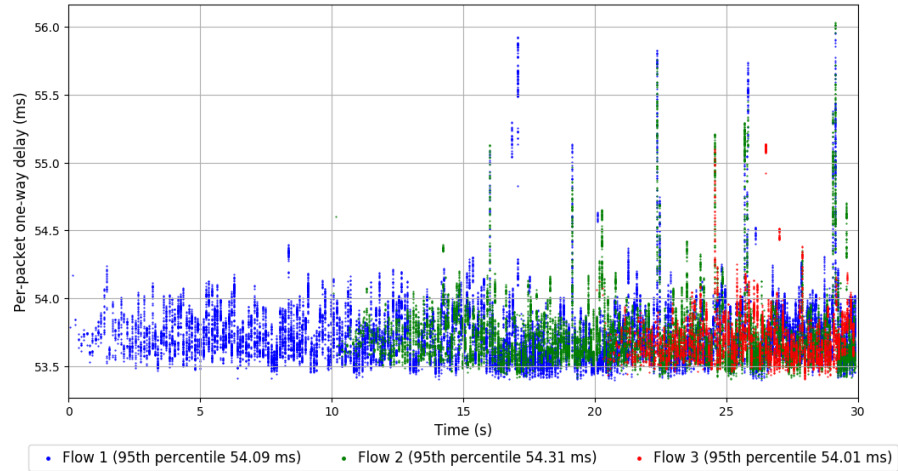
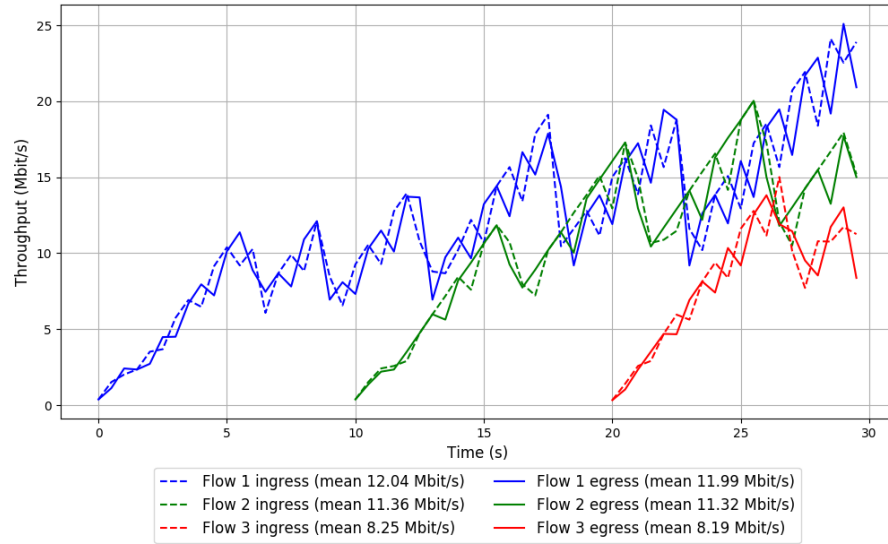
-- Flow 3:

Average throughput: 8.19 Mbit/s

95th percentile per-packet one-way delay: 54.012 ms

Loss rate: 1.78%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2017-12-06 05:01:48

End at: 2017-12-06 05:02:18

Below is generated by plot.py at 2017-12-06 07:55:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 25.91 Mbit/s

95th percentile per-packet one-way delay: 54.289 ms

Loss rate: 0.64%

-- Flow 1:

Average throughput: 14.81 Mbit/s

95th percentile per-packet one-way delay: 54.275 ms

Loss rate: 0.49%

-- Flow 2:

Average throughput: 12.12 Mbit/s

95th percentile per-packet one-way delay: 54.337 ms

Loss rate: 0.58%

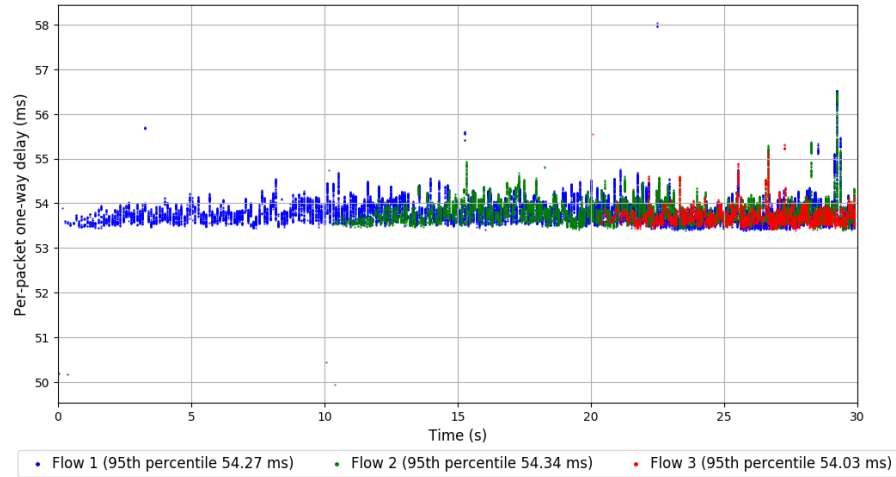
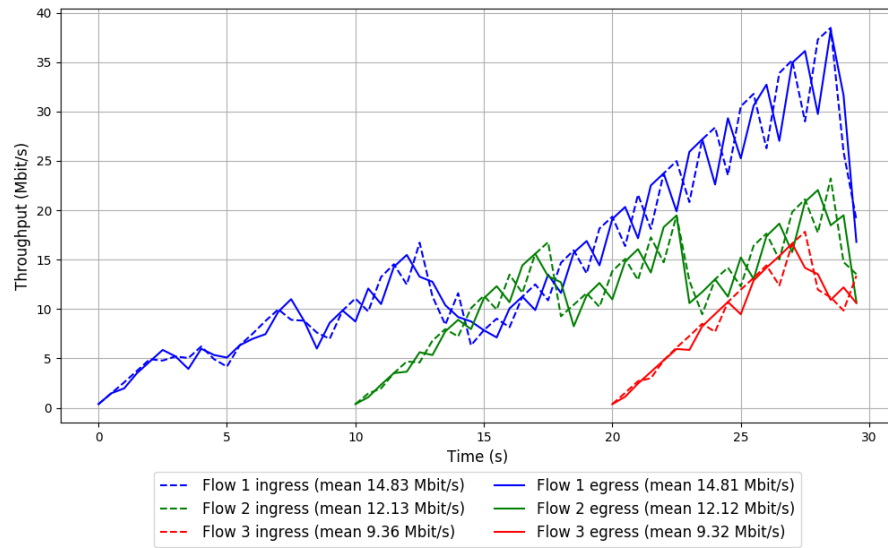
-- Flow 3:

Average throughput: 9.32 Mbit/s

95th percentile per-packet one-way delay: 54.035 ms

Loss rate: 1.49%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2017-12-06 05:13:51

End at: 2017-12-06 05:14:21

Below is generated by plot.py at 2017-12-06 07:55:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 33.32 Mbit/s

95th percentile per-packet one-way delay: 53.898 ms

Loss rate: 0.87%

-- Flow 1:

Average throughput: 20.13 Mbit/s

95th percentile per-packet one-way delay: 53.841 ms

Loss rate: 0.77%

-- Flow 2:

Average throughput: 14.60 Mbit/s

95th percentile per-packet one-way delay: 54.184 ms

Loss rate: 0.63%

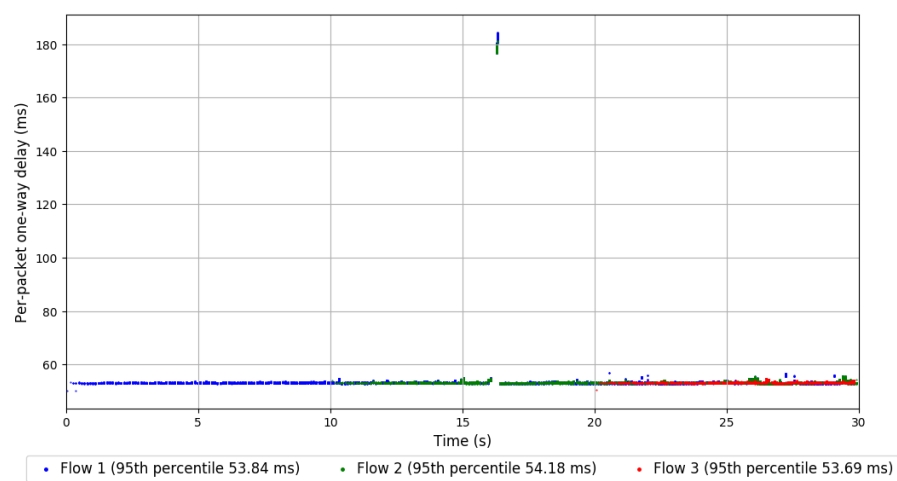
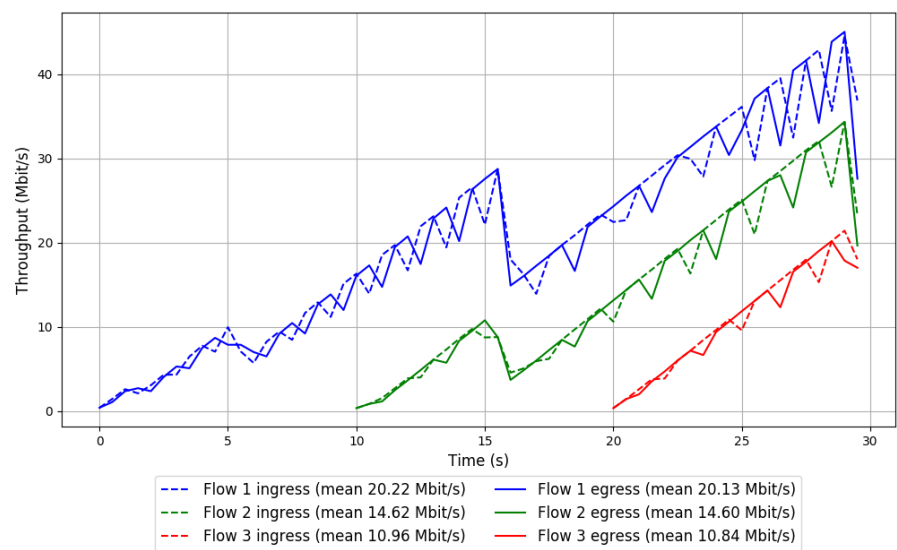
-- Flow 3:

Average throughput: 10.84 Mbit/s

95th percentile per-packet one-way delay: 53.689 ms

Loss rate: 2.12%

Run 9: Report of LEDBAT — Data Link

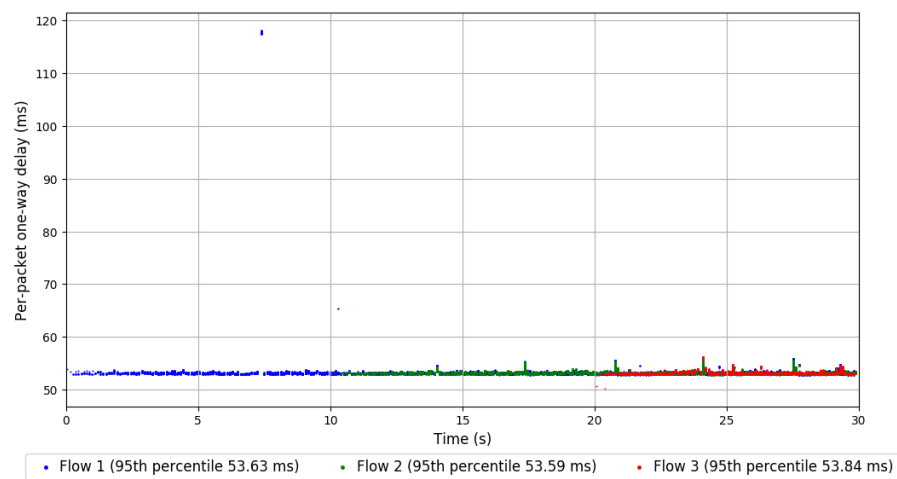
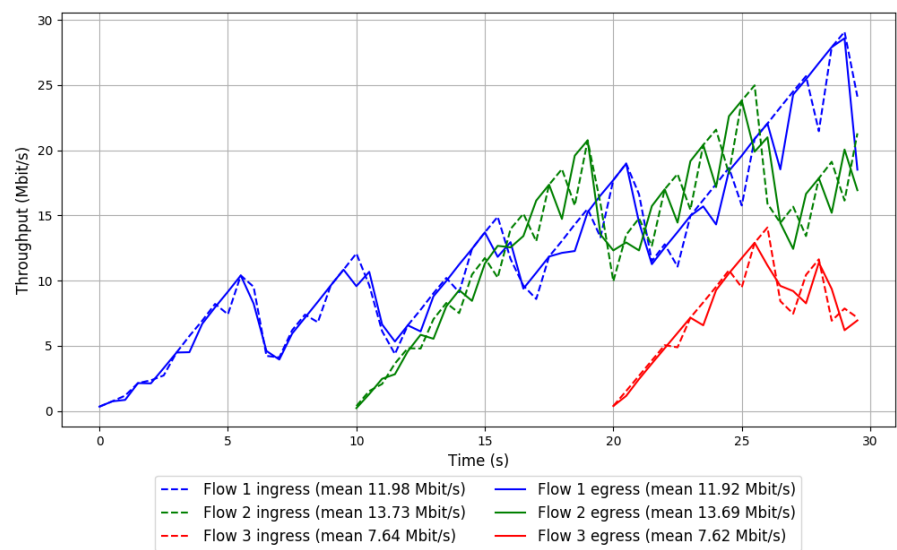


```
Run 10: Statistics of LEDBAT

Start at: 2017-12-06 05:26:01
End at: 2017-12-06 05:26:31

# Below is generated by plot.py at 2017-12-06 07:55:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 23.49 Mbit/s
95th percentile per-packet one-way delay: 53.639 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 11.92 Mbit/s
95th percentile per-packet one-way delay: 53.626 ms
Loss rate: 0.85%
-- Flow 2:
Average throughput: 13.69 Mbit/s
95th percentile per-packet one-way delay: 53.585 ms
Loss rate: 0.80%
-- Flow 3:
Average throughput: 7.62 Mbit/s
95th percentile per-packet one-way delay: 53.835 ms
Loss rate: 1.25%
```

Run 10: Report of LEDBAT — Data Link

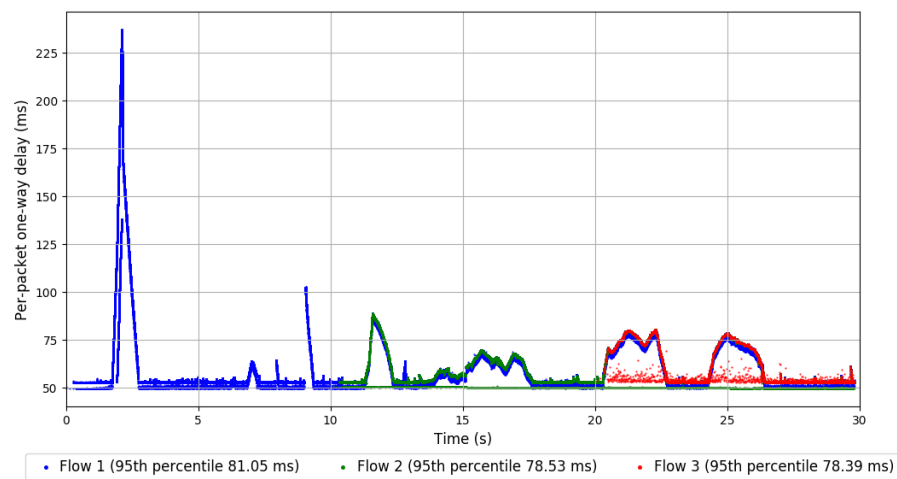
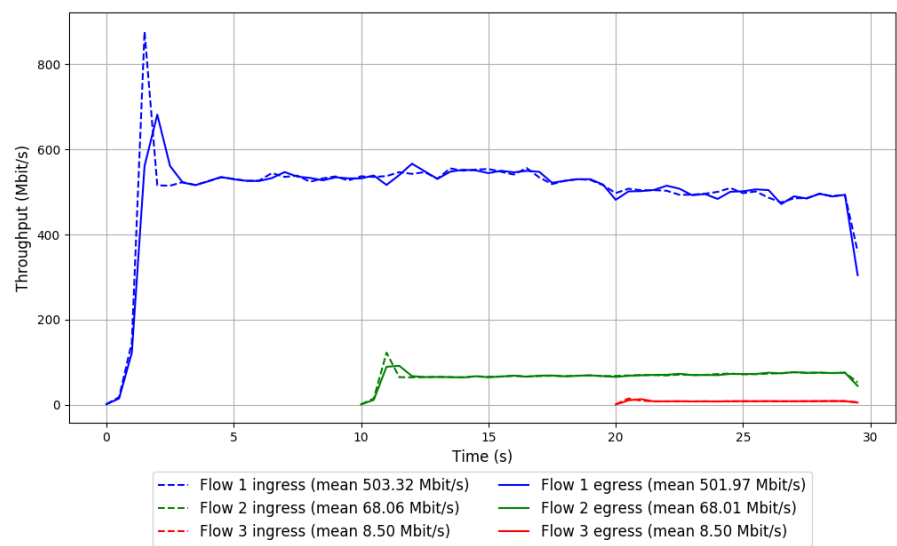


```
Run 1: Statistics of PCC

Start at: 2017-12-06 03:30:02
End at: 2017-12-06 03:30:32

# Below is generated by plot.py at 2017-12-06 08:03:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 549.79 Mbit/s
95th percentile per-packet one-way delay: 80.116 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 501.97 Mbit/s
95th percentile per-packet one-way delay: 81.051 ms
Loss rate: 0.61%
-- Flow 2:
Average throughput: 68.01 Mbit/s
95th percentile per-packet one-way delay: 78.535 ms
Loss rate: 0.61%
-- Flow 3:
Average throughput: 8.50 Mbit/s
95th percentile per-packet one-way delay: 78.387 ms
Loss rate: 1.06%
```

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2017-12-06 03:42:36

End at: 2017-12-06 03:43:06

Below is generated by plot.py at 2017-12-06 08:03:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 551.34 Mbit/s

95th percentile per-packet one-way delay: 135.697 ms

Loss rate: 0.69%

-- Flow 1:

Average throughput: 490.27 Mbit/s

95th percentile per-packet one-way delay: 134.385 ms

Loss rate: 0.65%

-- Flow 2:

Average throughput: 33.13 Mbit/s

95th percentile per-packet one-way delay: 136.193 ms

Loss rate: 0.68%

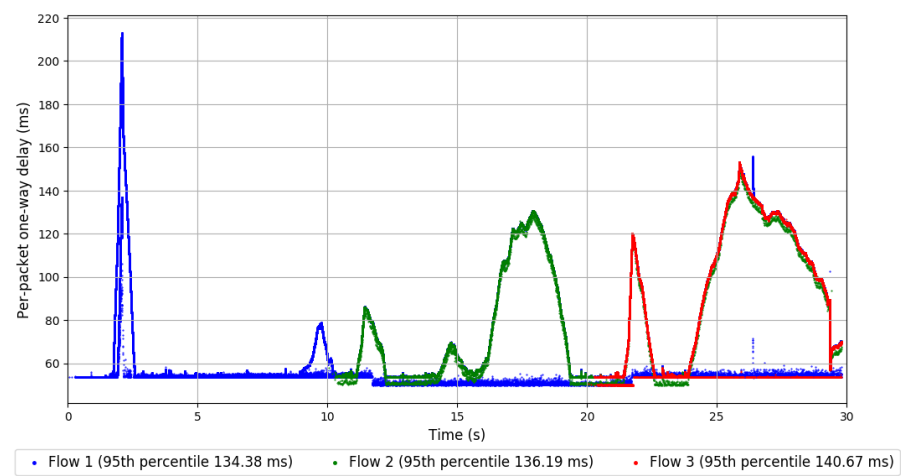
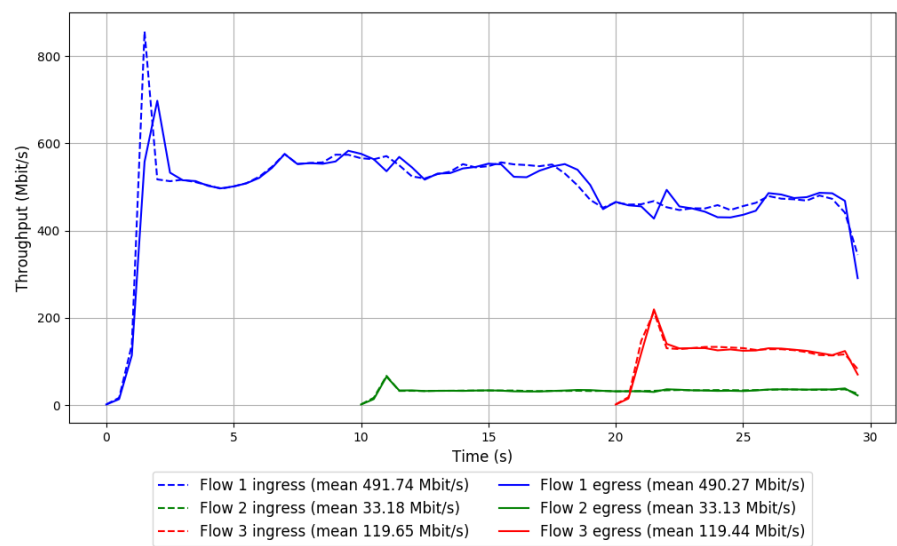
-- Flow 3:

Average throughput: 119.44 Mbit/s

95th percentile per-packet one-way delay: 140.673 ms

Loss rate: 1.20%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2017-12-06 03:54:50

End at: 2017-12-06 03:55:20

Below is generated by plot.py at 2017-12-06 08:03:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 569.10 Mbit/s

95th percentile per-packet one-way delay: 175.693 ms

Loss rate: 2.17%

-- Flow 1:

Average throughput: 542.98 Mbit/s

95th percentile per-packet one-way delay: 175.652 ms

Loss rate: 2.16%

-- Flow 2:

Average throughput: 38.33 Mbit/s

95th percentile per-packet one-way delay: 176.726 ms

Loss rate: 2.24%

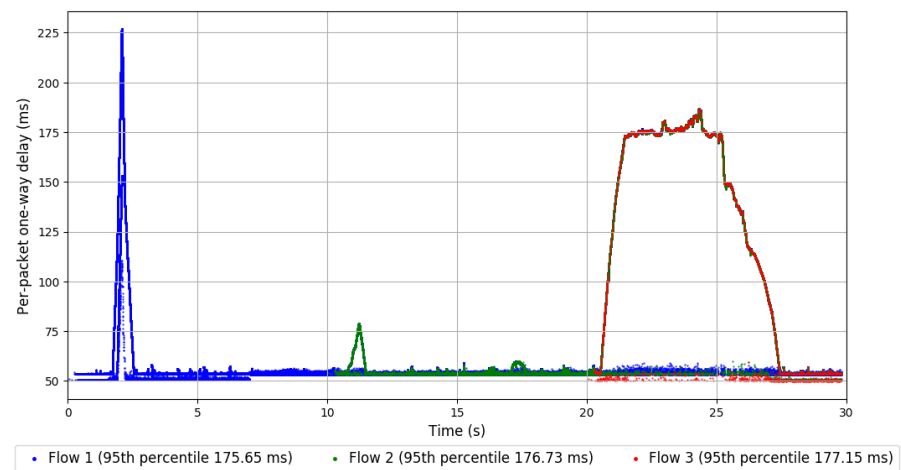
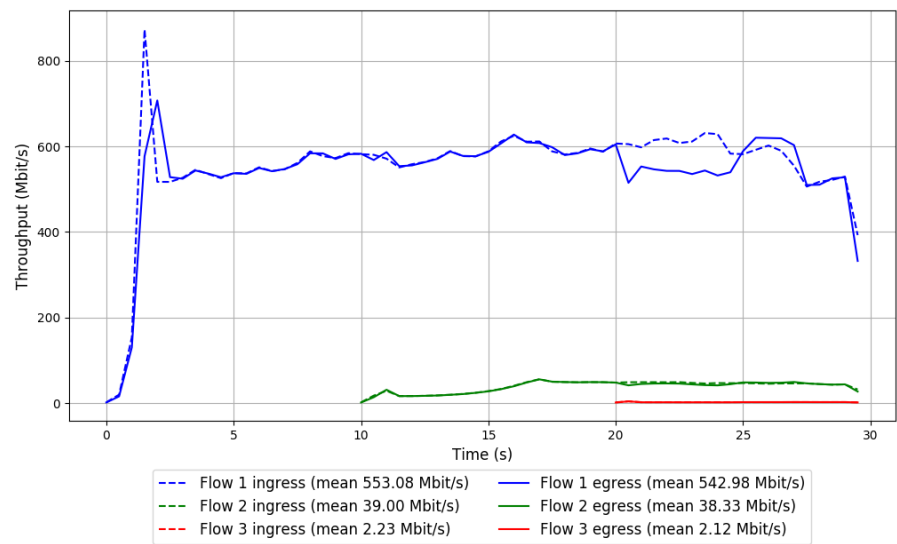
-- Flow 3:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 177.152 ms

Loss rate: 5.67%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2017-12-06 04:06:50

End at: 2017-12-06 04:07:20

Below is generated by plot.py at 2017-12-06 08:03:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 554.96 Mbit/s

95th percentile per-packet one-way delay: 164.588 ms

Loss rate: 0.66%

-- Flow 1:

Average throughput: 550.57 Mbit/s

95th percentile per-packet one-way delay: 164.599 ms

Loss rate: 0.65%

-- Flow 2:

Average throughput: 4.42 Mbit/s

95th percentile per-packet one-way delay: 165.426 ms

Loss rate: 0.68%

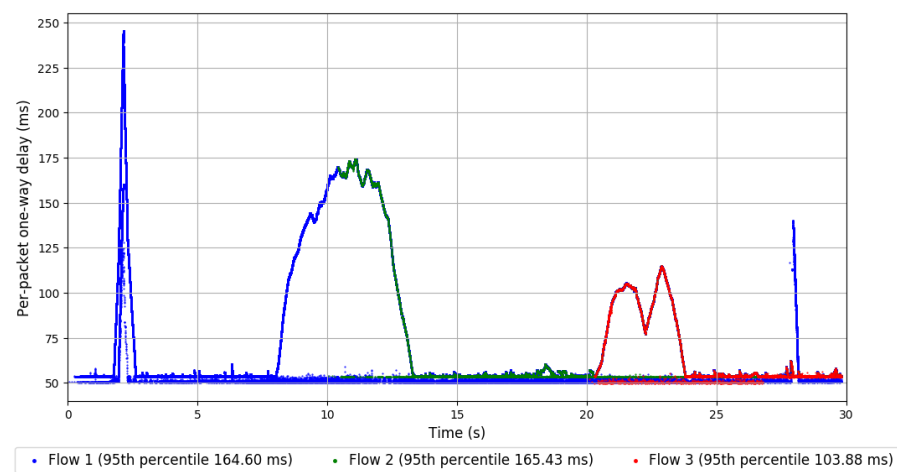
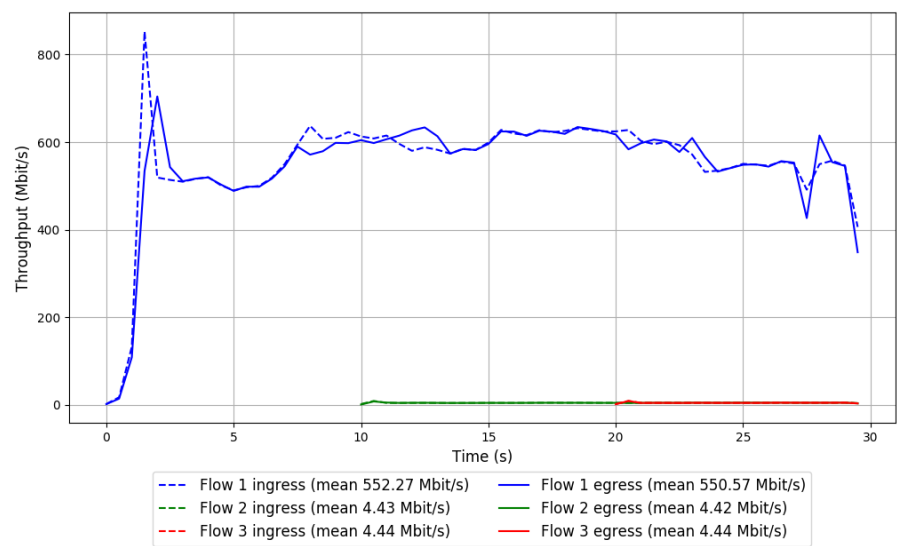
-- Flow 3:

Average throughput: 4.44 Mbit/s

95th percentile per-packet one-way delay: 103.880 ms

Loss rate: 1.14%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2017-12-06 04:19:20

End at: 2017-12-06 04:19:50

Below is generated by plot.py at 2017-12-06 08:03:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 564.59 Mbit/s

95th percentile per-packet one-way delay: 174.732 ms

Loss rate: 2.68%

-- Flow 1:

Average throughput: 484.07 Mbit/s

95th percentile per-packet one-way delay: 174.574 ms

Loss rate: 2.49%

-- Flow 2:

Average throughput: 62.19 Mbit/s

95th percentile per-packet one-way delay: 174.952 ms

Loss rate: 2.59%

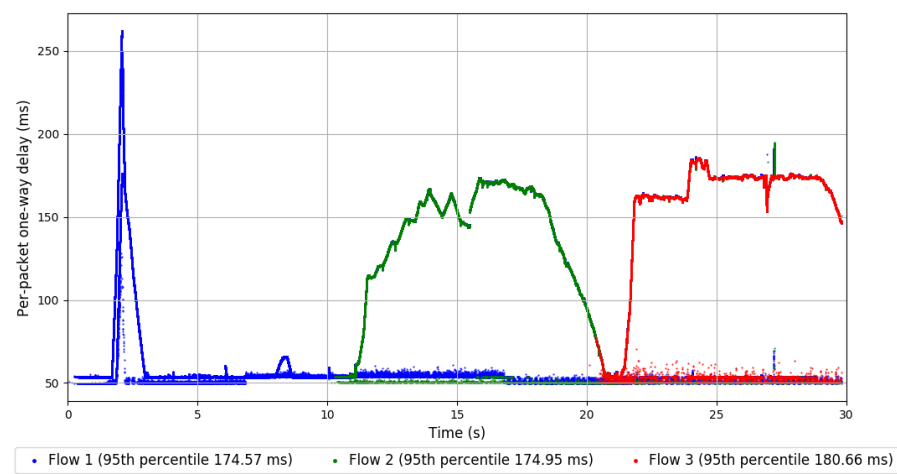
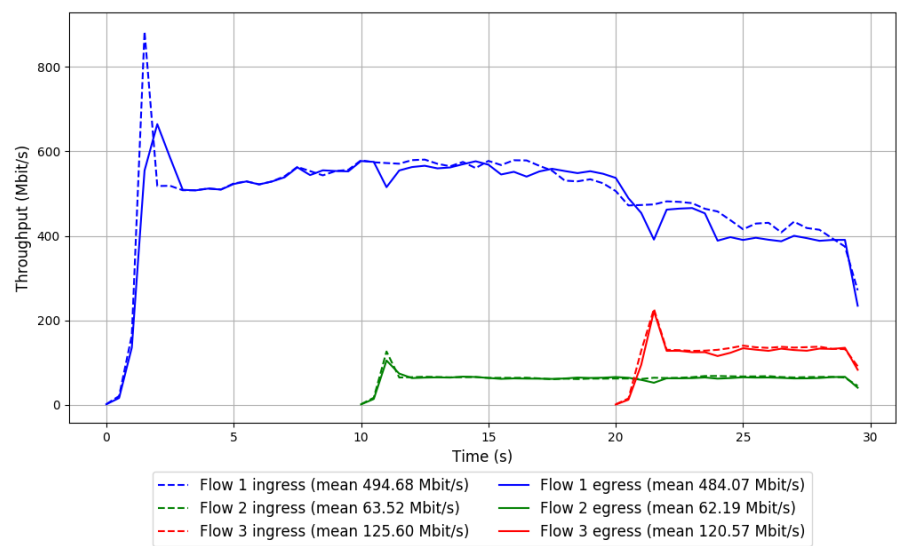
-- Flow 3:

Average throughput: 120.57 Mbit/s

95th percentile per-packet one-way delay: 180.664 ms

Loss rate: 5.13%

Run 5: Report of PCC — Data Link

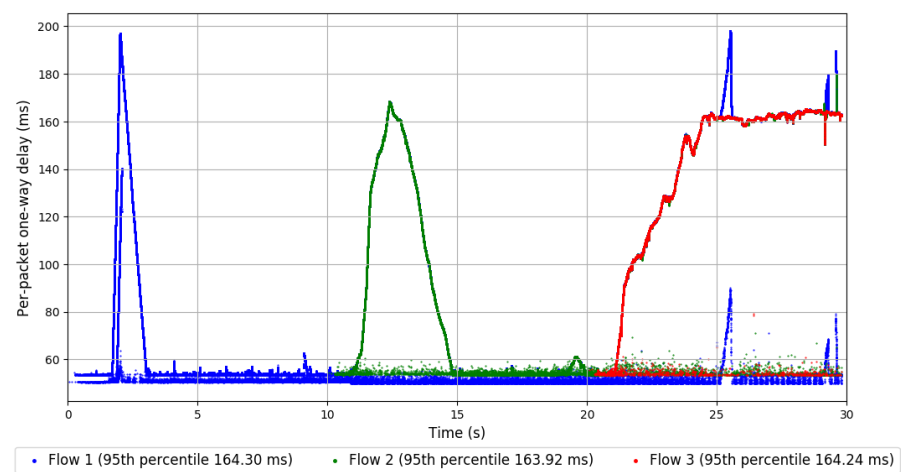
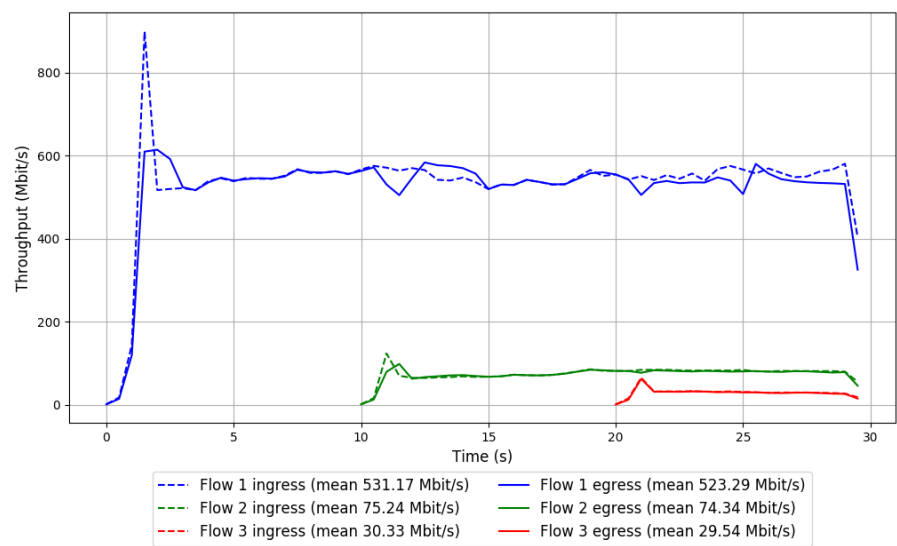


```
Run 6: Statistics of PCC

Start at: 2017-12-06 04:31:26
End at: 2017-12-06 04:31:56

# Below is generated by plot.py at 2017-12-06 08:04:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 582.27 Mbit/s
95th percentile per-packet one-way delay: 164.255 ms
Loss rate: 1.85%
-- Flow 1:
Average throughput: 523.29 Mbit/s
95th percentile per-packet one-way delay: 164.297 ms
Loss rate: 1.83%
-- Flow 2:
Average throughput: 74.34 Mbit/s
95th percentile per-packet one-way delay: 163.918 ms
Loss rate: 1.74%
-- Flow 3:
Average throughput: 29.54 Mbit/s
95th percentile per-packet one-way delay: 164.239 ms
Loss rate: 3.66%
```

Run 6: Report of PCC — Data Link

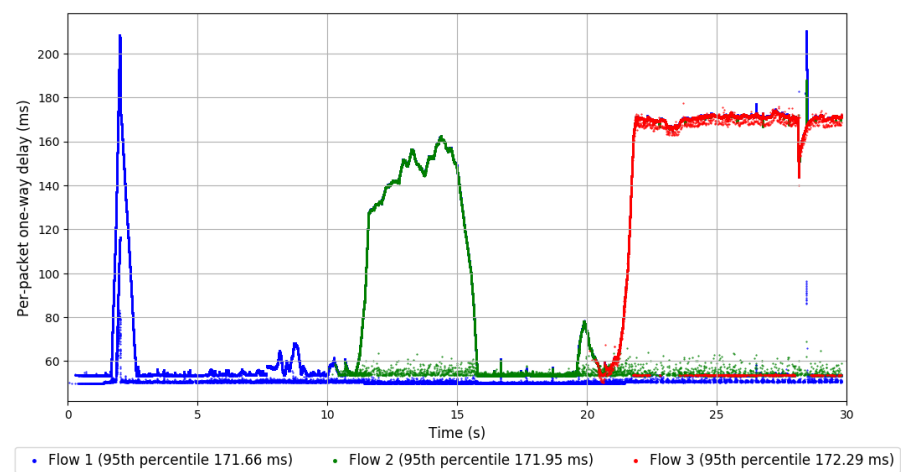
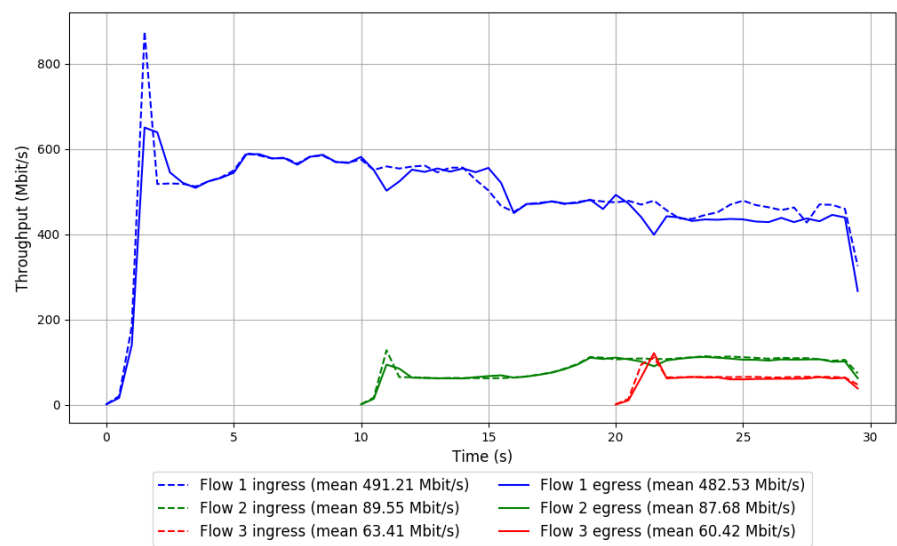


```
Run 7: Statistics of PCC

Start at: 2017-12-06 04:43:36
End at: 2017-12-06 04:44:06

# Below is generated by plot.py at 2017-12-06 08:05:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 560.41 Mbit/s
95th percentile per-packet one-way delay: 171.755 ms
Loss rate: 2.29%
-- Flow 1:
Average throughput: 482.53 Mbit/s
95th percentile per-packet one-way delay: 171.663 ms
Loss rate: 2.10%
-- Flow 2:
Average throughput: 87.68 Mbit/s
95th percentile per-packet one-way delay: 171.951 ms
Loss rate: 2.61%
-- Flow 3:
Average throughput: 60.42 Mbit/s
95th percentile per-packet one-way delay: 172.289 ms
Loss rate: 5.83%
```


Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2017-12-06 04:55:53

End at: 2017-12-06 04:56:23

Below is generated by plot.py at 2017-12-06 08:05:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 547.06 Mbit/s

95th percentile per-packet one-way delay: 103.984 ms

Loss rate: 0.52%

-- Flow 1:

Average throughput: 516.87 Mbit/s

95th percentile per-packet one-way delay: 104.622 ms

Loss rate: 0.51%

-- Flow 2:

Average throughput: 37.19 Mbit/s

95th percentile per-packet one-way delay: 99.614 ms

Loss rate: 0.61%

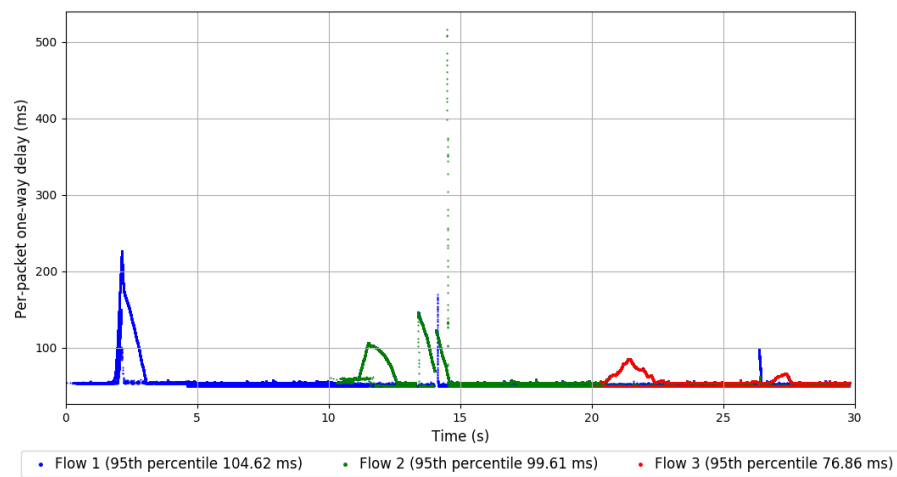
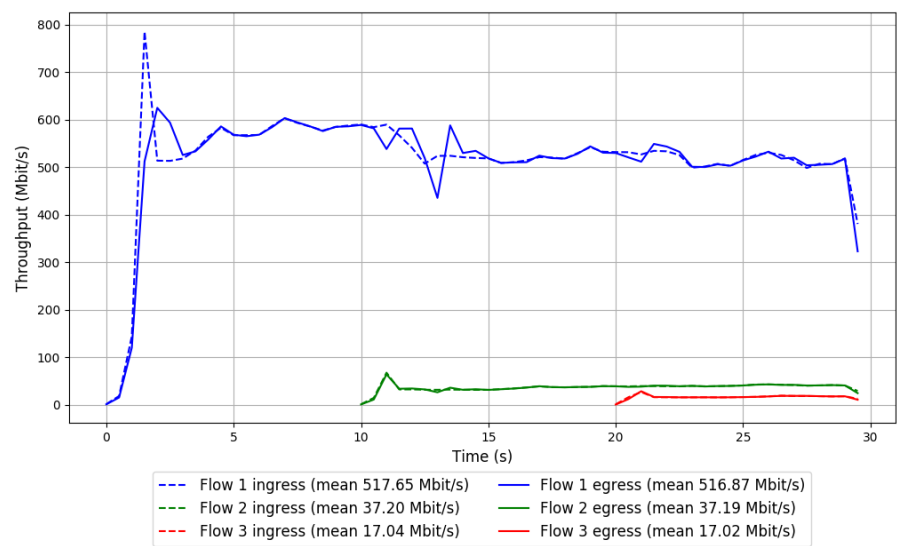
-- Flow 3:

Average throughput: 17.02 Mbit/s

95th percentile per-packet one-way delay: 76.864 ms

Loss rate: 1.19%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2017-12-06 05:07:42

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

Below is generated by plot.py at 2017-12-06 08:13:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 562.27 Mbit/s

95th percentile per-packet one-way delay: 175.440 ms

Loss rate: 3.83%

-- Flow 1:

Average throughput: 538.33 Mbit/s

95th percentile per-packet one-way delay: 175.342 ms

Loss rate: 3.73%

-- Flow 2:

Average throughput: 6.91 Mbit/s

95th percentile per-packet one-way delay: 175.879 ms

Loss rate: 3.85%

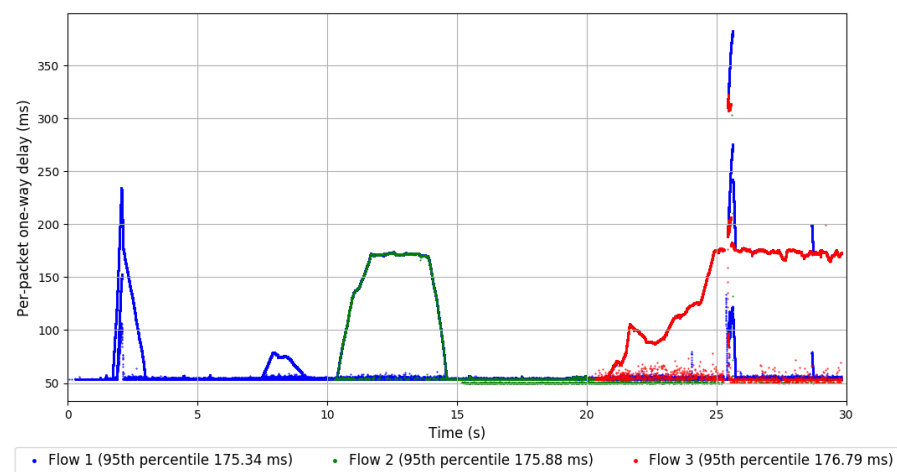
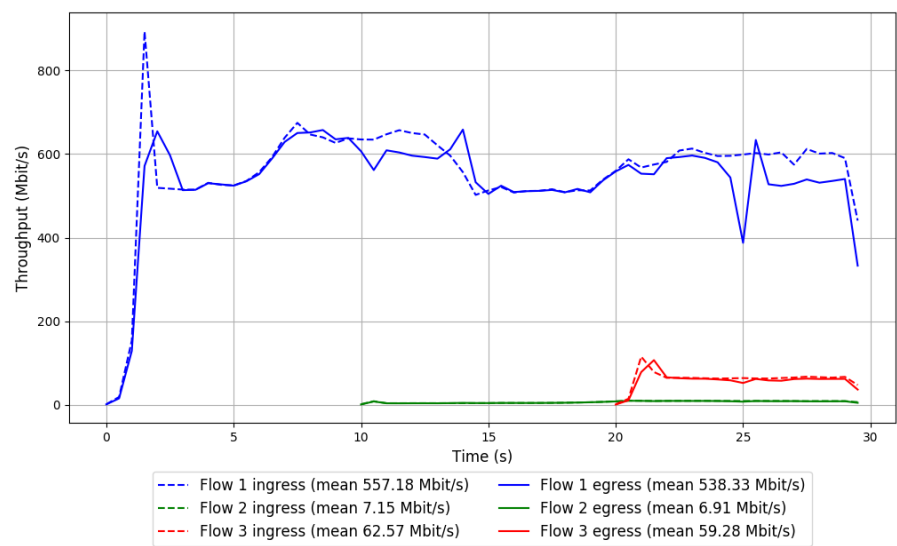
-- Flow 3:

Average throughput: 59.28 Mbit/s

95th percentile per-packet one-way delay: 176.789 ms

Loss rate: 6.32%

Run 9: Report of PCC — Data Link

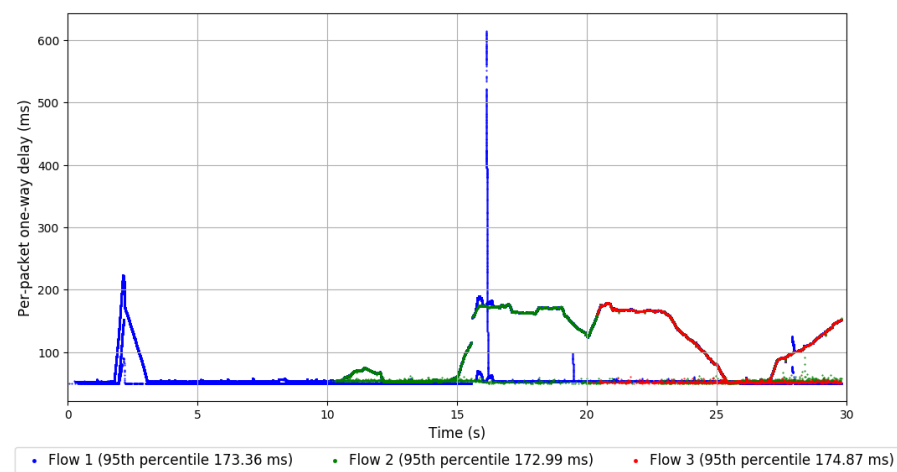
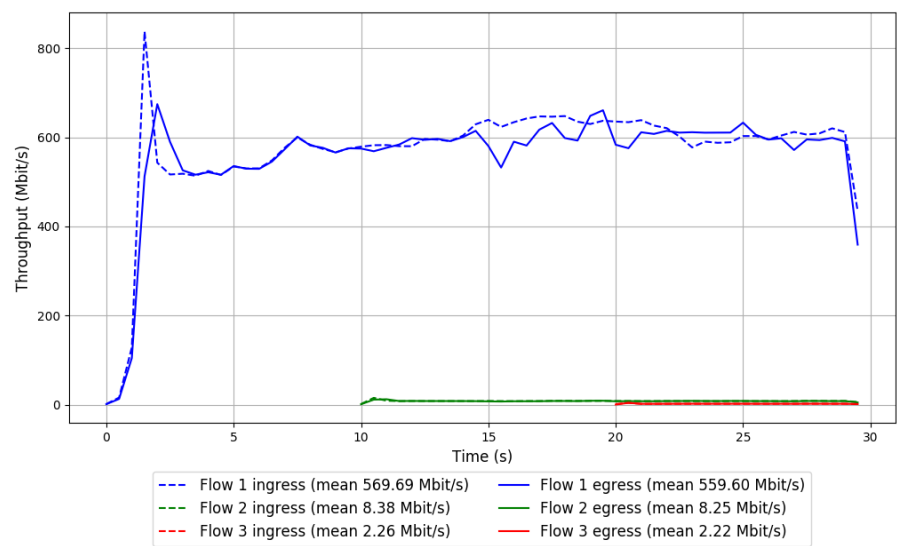


```
Run 10: Statistics of PCC

Start at: 2017-12-06 05:19:51
End at: 2017-12-06 05:20:21

# Below is generated by plot.py at 2017-12-06 08:13:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 565.73 Mbit/s
95th percentile per-packet one-way delay: 173.353 ms
Loss rate: 2.13%
-- Flow 1:
Average throughput: 559.60 Mbit/s
95th percentile per-packet one-way delay: 173.360 ms
Loss rate: 2.13%
-- Flow 2:
Average throughput: 8.25 Mbit/s
95th percentile per-packet one-way delay: 172.993 ms
Loss rate: 2.14%
-- Flow 3:
Average throughput: 2.22 Mbit/s
95th percentile per-packet one-way delay: 174.868 ms
Loss rate: 2.98%
```

Run 10: Report of PCC — Data Link

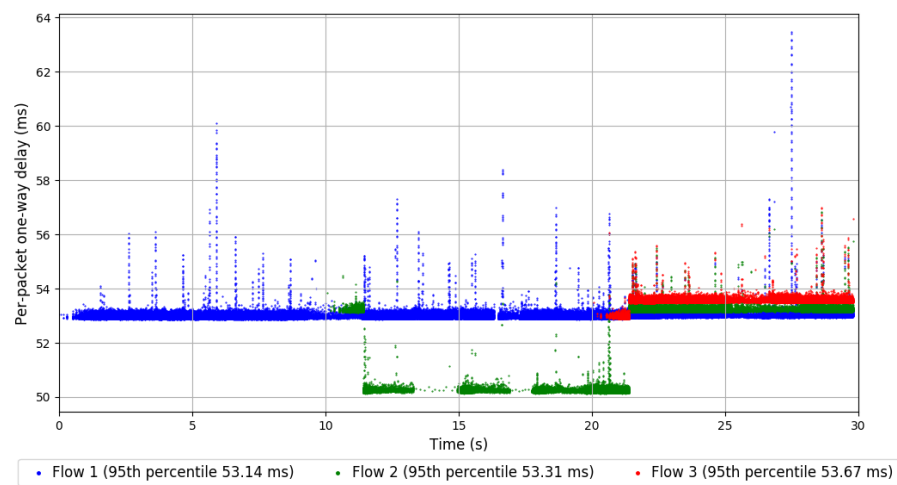
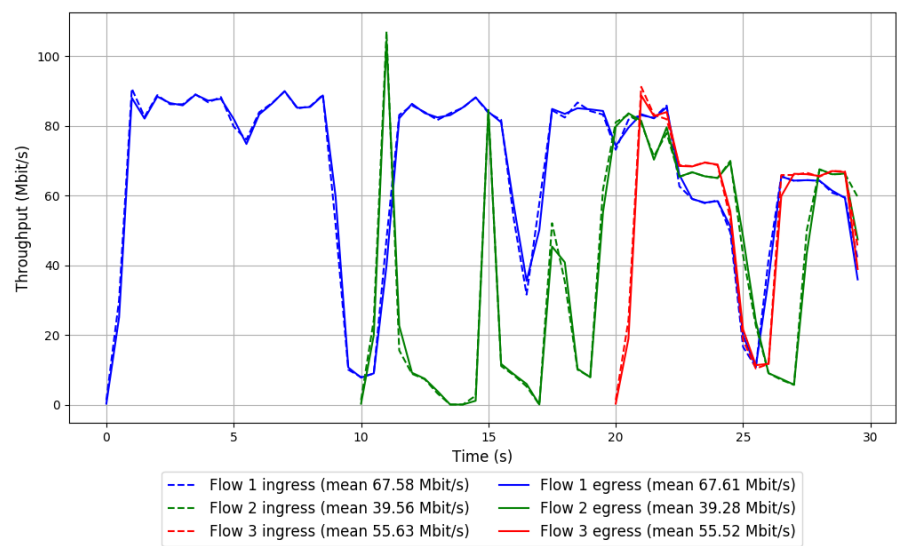


```
Run 1: Statistics of QUIC Cubic

Start at: 2017-12-06 03:35:26
End at: 2017-12-06 03:35:56

# Below is generated by plot.py at 2017-12-06 08:13:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 111.81 Mbit/s
95th percentile per-packet one-way delay: 53.580 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 67.61 Mbit/s
95th percentile per-packet one-way delay: 53.136 ms
Loss rate: 0.30%
-- Flow 2:
Average throughput: 39.28 Mbit/s
95th percentile per-packet one-way delay: 53.307 ms
Loss rate: 1.22%
-- Flow 3:
Average throughput: 55.52 Mbit/s
95th percentile per-packet one-way delay: 53.667 ms
Loss rate: 1.25%
```


Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2017-12-06 03:47:59

End at: 2017-12-06 03:48:29

Below is generated by plot.py at 2017-12-06 08:13:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 90.94 Mbit/s

95th percentile per-packet one-way delay: 53.504 ms

Loss rate: 0.79%

-- Flow 1:

Average throughput: 37.74 Mbit/s

95th percentile per-packet one-way delay: 53.557 ms

Loss rate: 0.57%

-- Flow 2:

Average throughput: 48.97 Mbit/s

95th percentile per-packet one-way delay: 50.260 ms

Loss rate: 0.87%

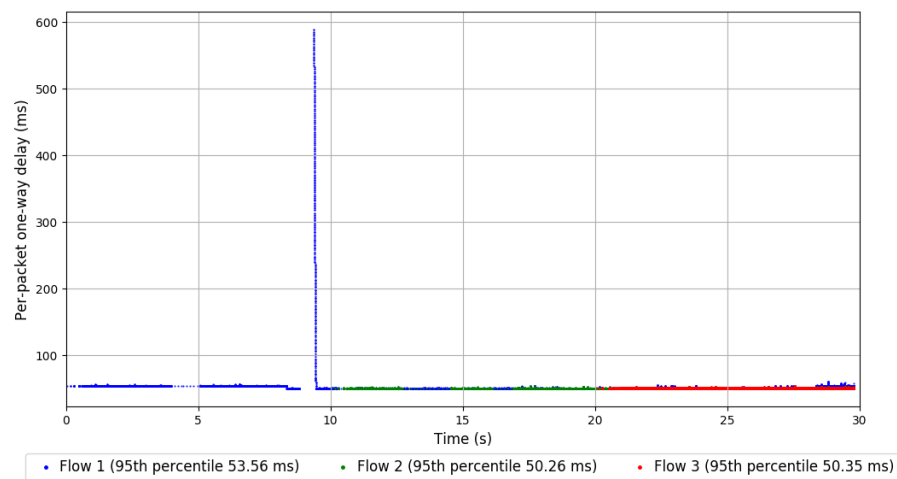
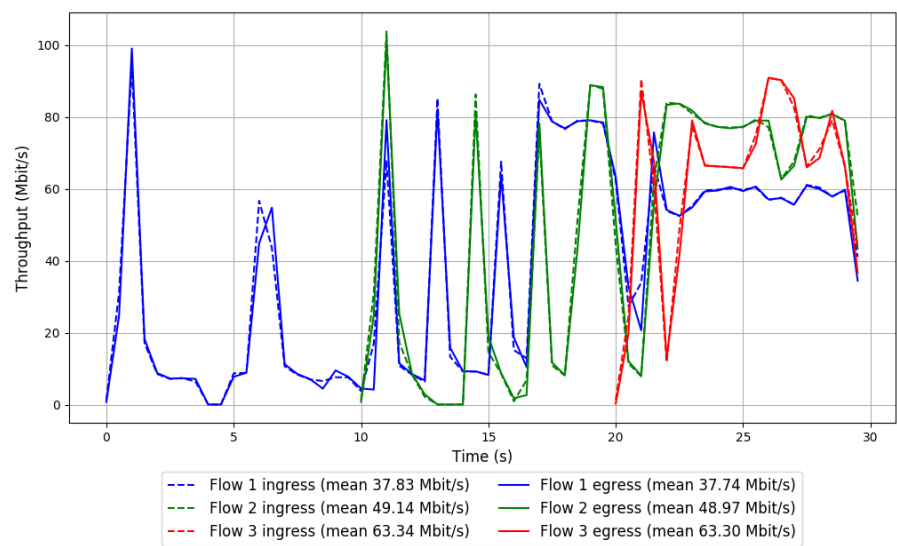
-- Flow 3:

Average throughput: 63.30 Mbit/s

95th percentile per-packet one-way delay: 50.353 ms

Loss rate: 1.09%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2017-12-06 04:00:11

End at: 2017-12-06 04:00:41

Below is generated by plot.py at 2017-12-06 08:13:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 106.03 Mbit/s

95th percentile per-packet one-way delay: 53.564 ms

Loss rate: 0.75%

-- Flow 1:

Average throughput: 43.05 Mbit/s

95th percentile per-packet one-way delay: 53.170 ms

Loss rate: 0.46%

-- Flow 2:

Average throughput: 67.28 Mbit/s

95th percentile per-packet one-way delay: 50.370 ms

Loss rate: 0.71%

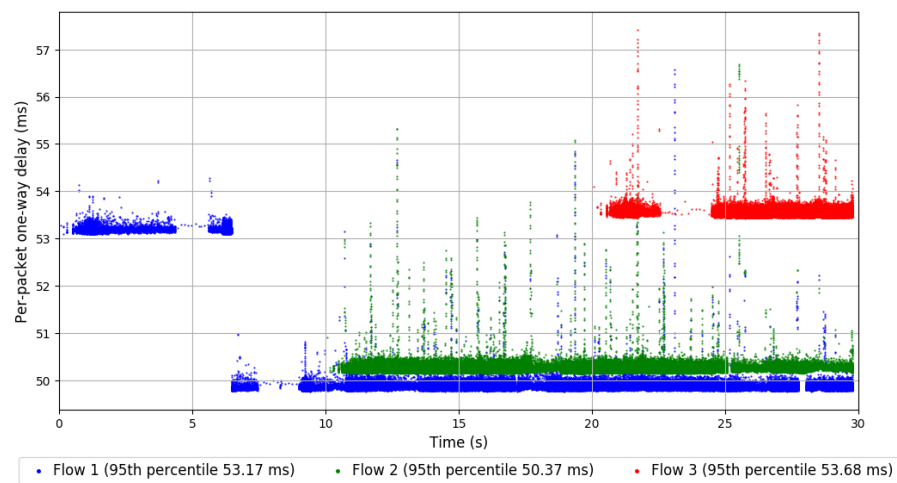
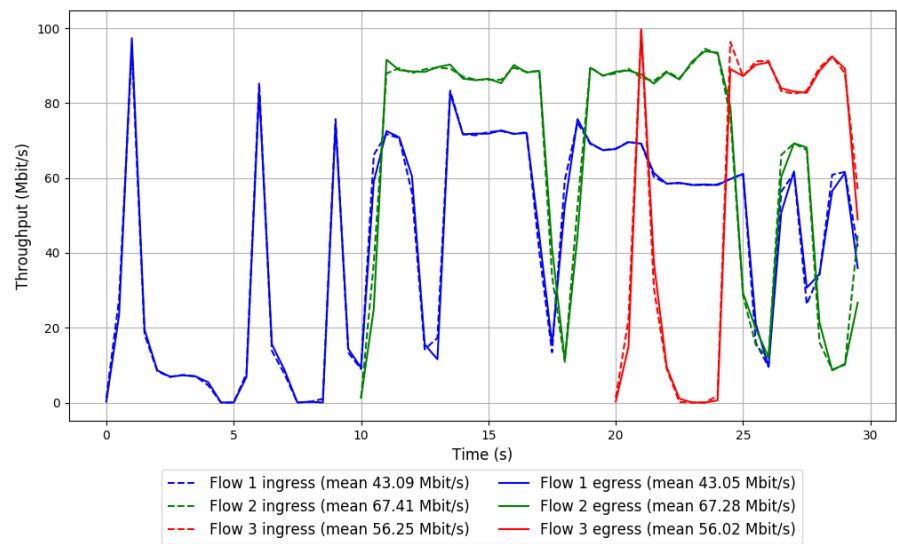
-- Flow 3:

Average throughput: 56.02 Mbit/s

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

Loss rate: 1.50%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2017-12-06 04:12:18

End at: 2017-12-06 04:12:48

Below is generated by plot.py at 2017-12-06 08:13:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 104.60 Mbit/s

95th percentile per-packet one-way delay: 53.648 ms

Loss rate: 0.54%

-- Flow 1:

Average throughput: 68.64 Mbit/s

95th percentile per-packet one-way delay: 53.638 ms

Loss rate: 0.33%

-- Flow 2:

Average throughput: 30.88 Mbit/s

95th percentile per-packet one-way delay: 50.599 ms

Loss rate: 0.55%

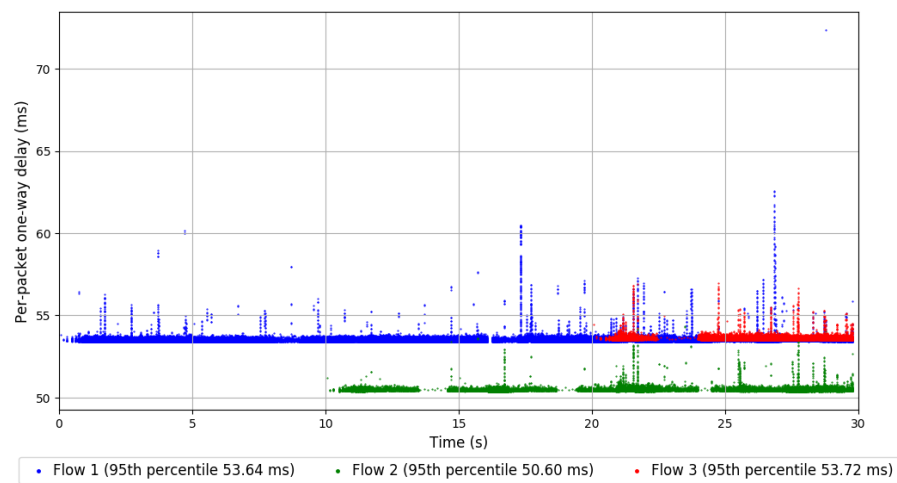
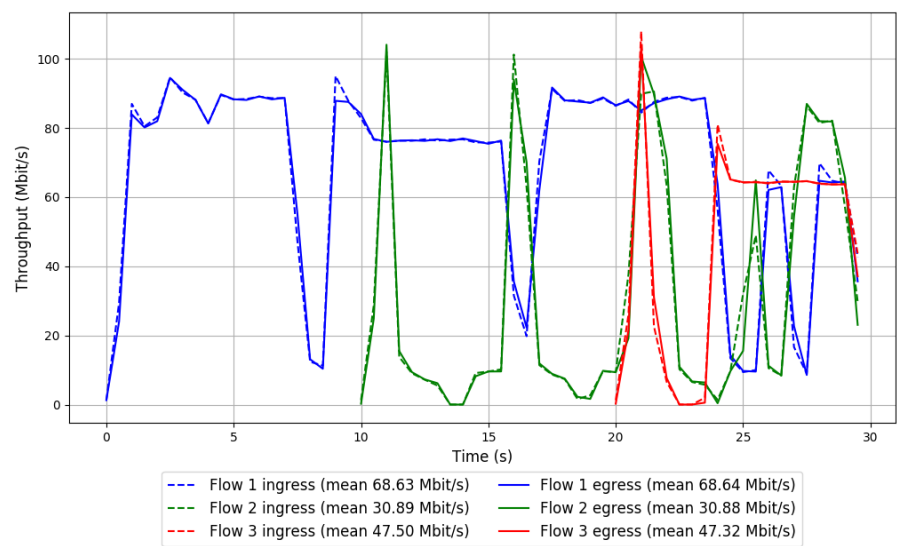
-- Flow 3:

Average throughput: 47.32 Mbit/s

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

Loss rate: 1.45%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2017-12-06 04:24:38

End at: 2017-12-06 04:25:08

Below is generated by plot.py at 2017-12-06 08:13:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 110.11 Mbit/s

95th percentile per-packet one-way delay: 53.581 ms

Loss rate: 0.42%

-- Flow 1:

Average throughput: 61.16 Mbit/s

95th percentile per-packet one-way delay: 53.574 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 54.43 Mbit/s

95th percentile per-packet one-way delay: 53.613 ms

Loss rate: 0.15%

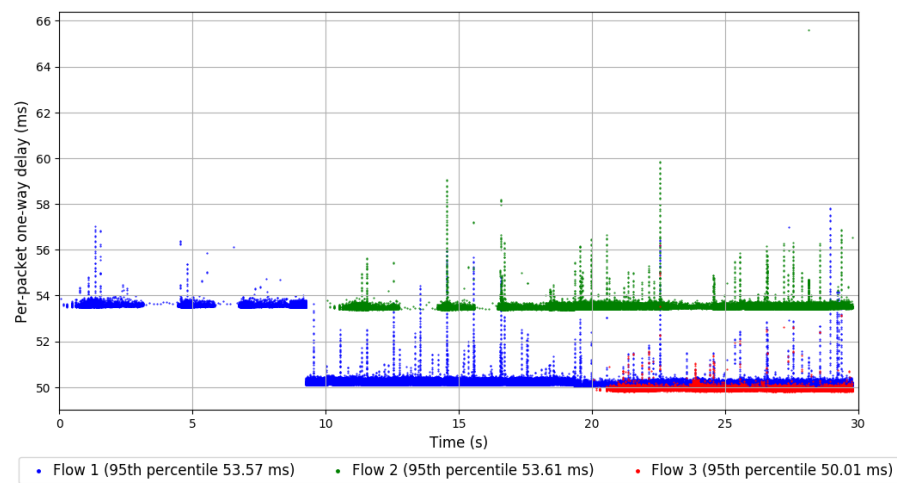
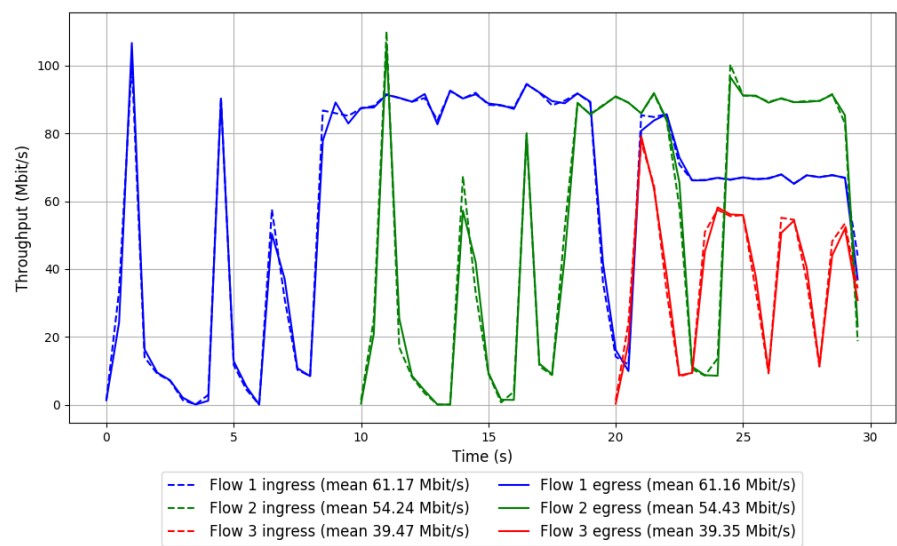
-- Flow 3:

Average throughput: 39.35 Mbit/s

95th percentile per-packet one-way delay: 50.014 ms

Loss rate: 1.34%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2017-12-06 04:36:48

End at: 2017-12-06 04:37:18

Below is generated by plot.py at 2017-12-06 08:13:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 104.75 Mbit/s

95th percentile per-packet one-way delay: 53.619 ms

Loss rate: 0.66%

-- Flow 1:

Average throughput: 52.65 Mbit/s

95th percentile per-packet one-way delay: 53.666 ms

Loss rate: 0.44%

-- Flow 2:

Average throughput: 49.20 Mbit/s

95th percentile per-packet one-way delay: 50.222 ms

Loss rate: 0.71%

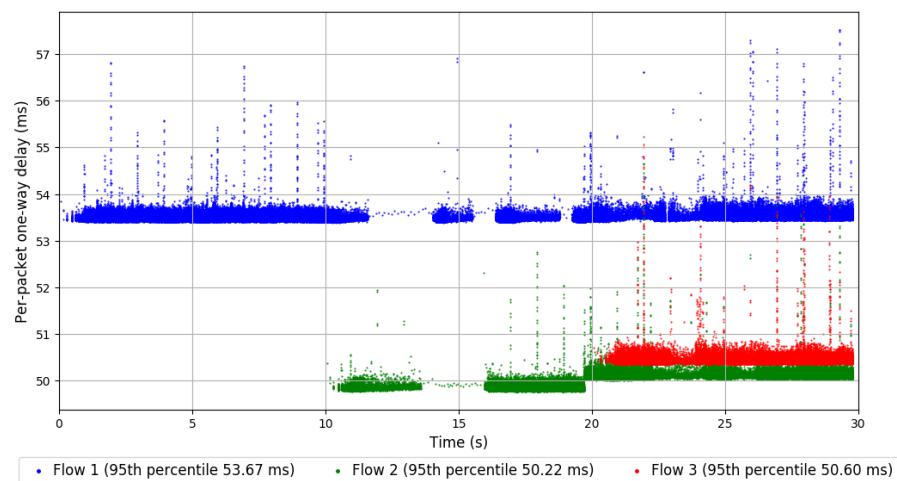
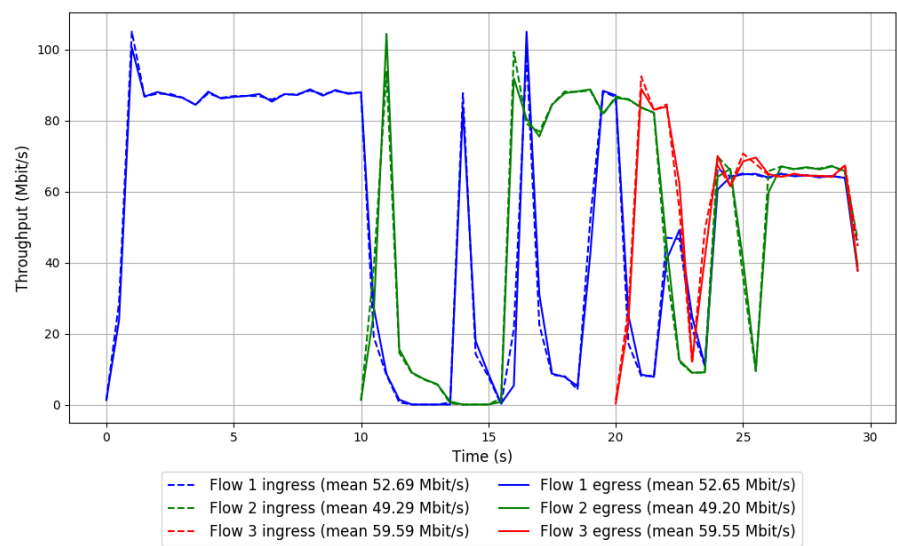
-- Flow 3:

Average throughput: 59.55 Mbit/s

95th percentile per-packet one-way delay: 50.604 ms

Loss rate: 1.15%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2017-12-06 04:48:59

End at: 2017-12-06 04:49:29

Below is generated by plot.py at 2017-12-06 08:13:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.77 Mbit/s

95th percentile per-packet one-way delay: 53.569 ms

Loss rate: 0.59%

-- Flow 1:

Average throughput: 40.36 Mbit/s

95th percentile per-packet one-way delay: 50.278 ms

Loss rate: 0.11%

-- Flow 2:

Average throughput: 45.67 Mbit/s

95th percentile per-packet one-way delay: 53.647 ms

Loss rate: 0.80%

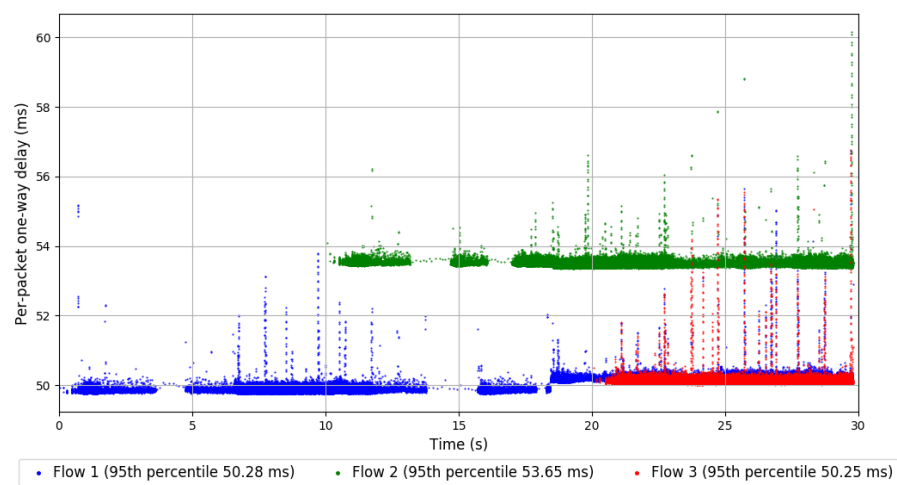
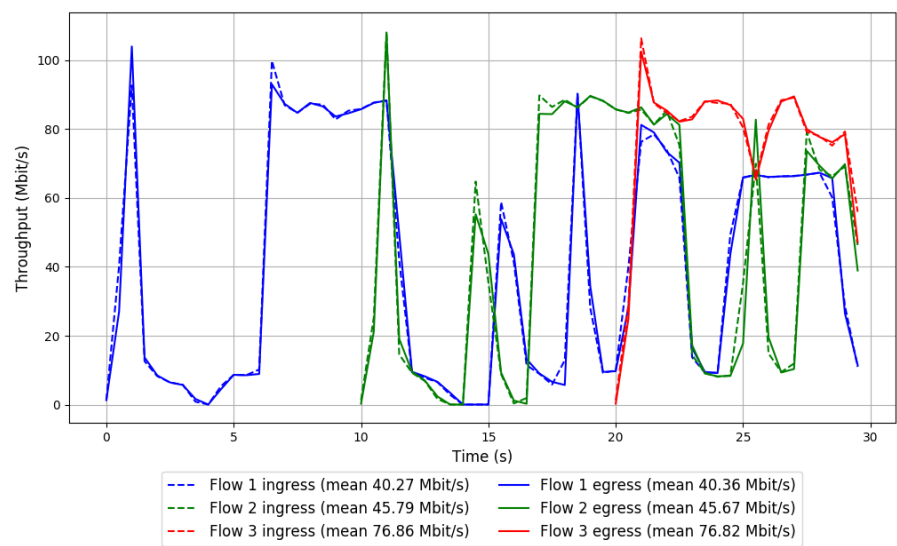
-- Flow 3:

Average throughput: 76.82 Mbit/s

95th percentile per-packet one-way delay: 50.248 ms

Loss rate: 1.11%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2017-12-06 05:01:03

End at: 2017-12-06 05:01:33

Below is generated by plot.py at 2017-12-06 08:13:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 90.09 Mbit/s

95th percentile per-packet one-way delay: 50.625 ms

Loss rate: 0.84%

-- Flow 1:

Average throughput: 53.06 Mbit/s

95th percentile per-packet one-way delay: 53.438 ms

Loss rate: 0.45%

-- Flow 2:

Average throughput: 24.31 Mbit/s

95th percentile per-packet one-way delay: 50.319 ms

Loss rate: 1.19%

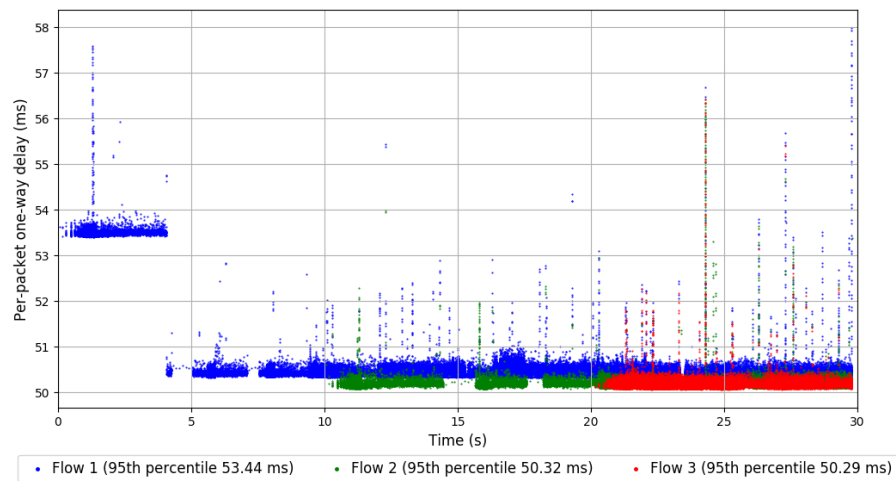
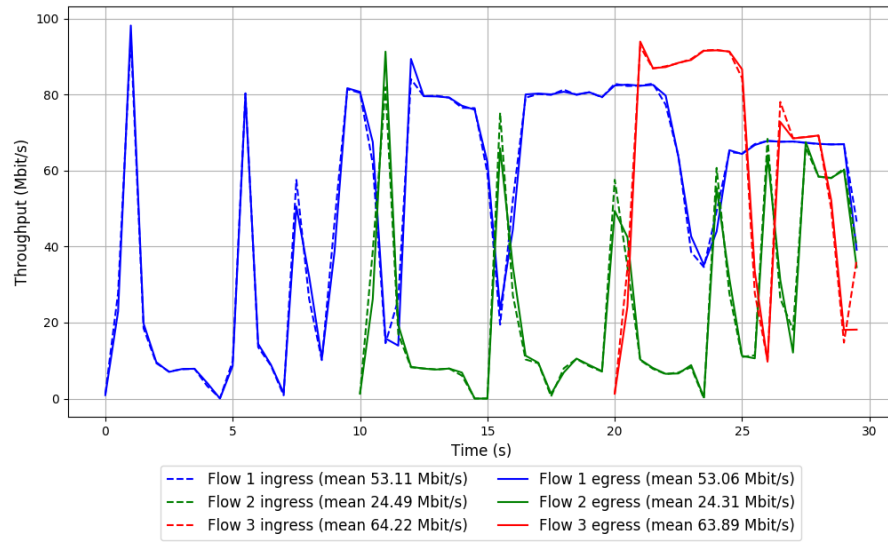
-- Flow 3:

Average throughput: 63.89 Mbit/s

95th percentile per-packet one-way delay: 50.292 ms

Loss rate: 1.55%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2017-12-06 05:13:06

End at: 2017-12-06 05:13:36

Below is generated by plot.py at 2017-12-06 08:13:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.61 Mbit/s

95th percentile per-packet one-way delay: 53.523 ms

Loss rate: 0.69%

-- Flow 1:

Average throughput: 59.44 Mbit/s

95th percentile per-packet one-way delay: 53.557 ms

Loss rate: 0.54%

-- Flow 2:

Average throughput: 42.72 Mbit/s

95th percentile per-packet one-way delay: 50.133 ms

Loss rate: 1.11%

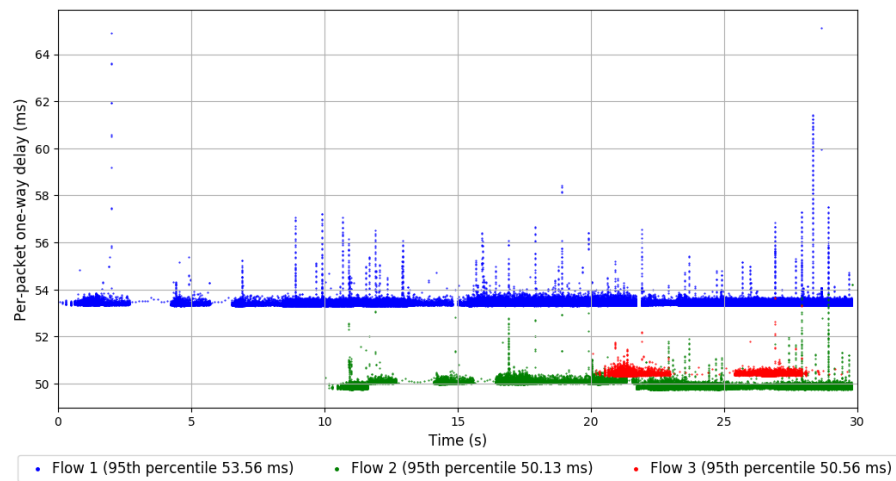
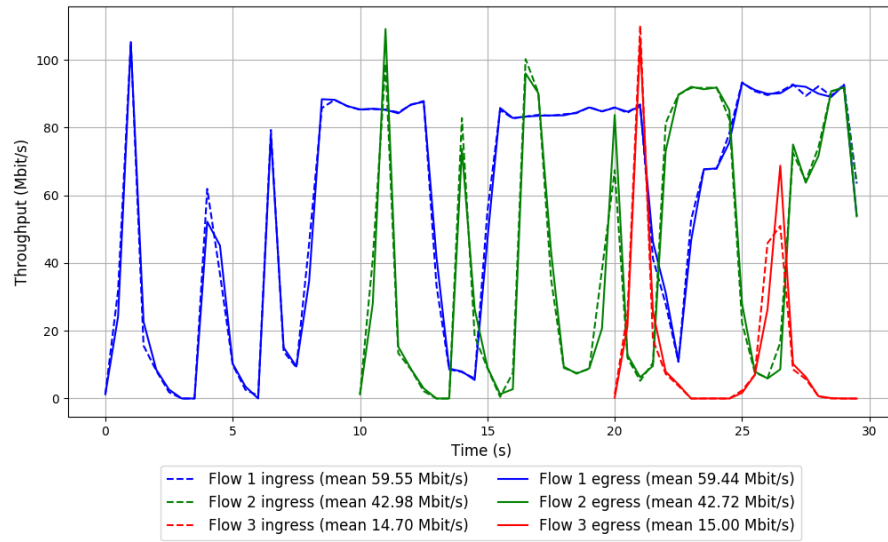
-- Flow 3:

Average throughput: 15.00 Mbit/s

95th percentile per-packet one-way delay: 50.565 ms

Loss rate: 0.00%

Run 9: Report of QUIC Cubic — Data Link

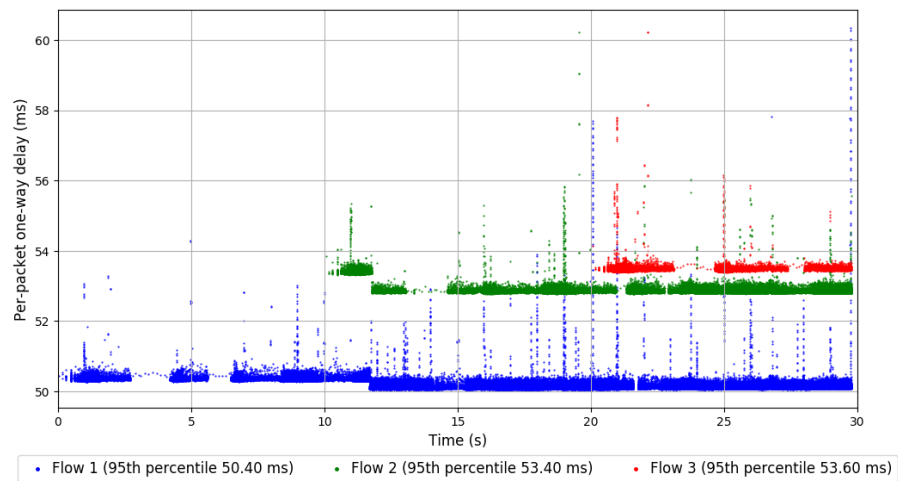
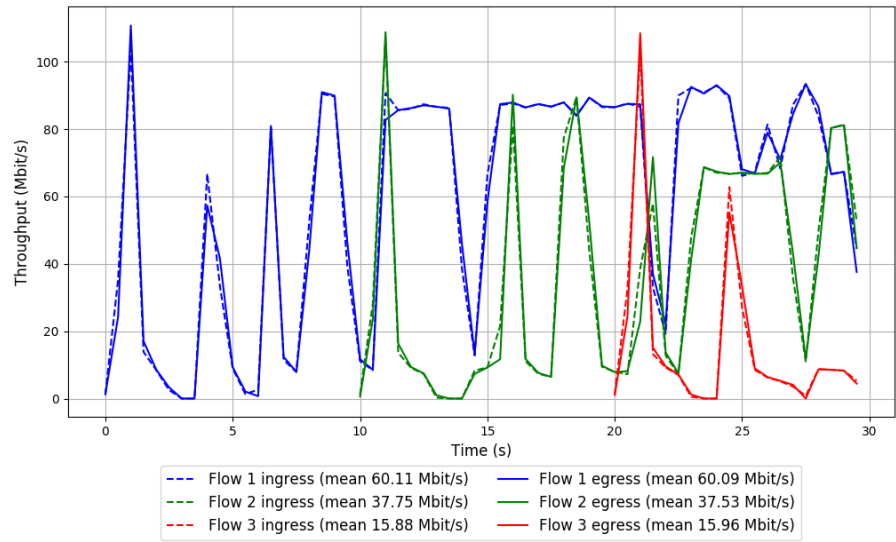


```
Run 10: Statistics of QUIC Cubic

Start at: 2017-12-06 05:25:16
End at: 2017-12-06 05:25:46

# Below is generated by plot.py at 2017-12-06 08:13:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.19 Mbit/s
95th percentile per-packet one-way delay: 53.450 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 60.09 Mbit/s
95th percentile per-packet one-way delay: 50.399 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 37.53 Mbit/s
95th percentile per-packet one-way delay: 53.401 ms
Loss rate: 1.10%
-- Flow 3:
Average throughput: 15.96 Mbit/s
95th percentile per-packet one-way delay: 53.598 ms
Loss rate: 0.55%
```

Run 10: Report of QUIC Cubic — Data Link

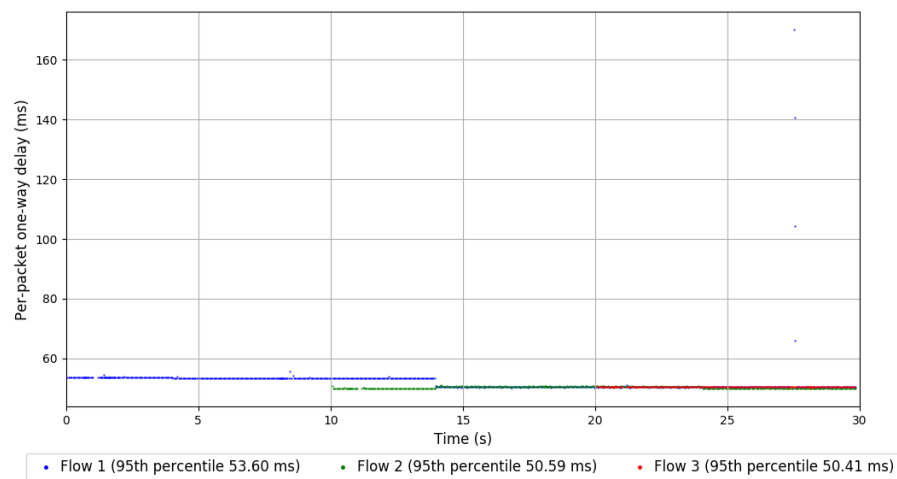
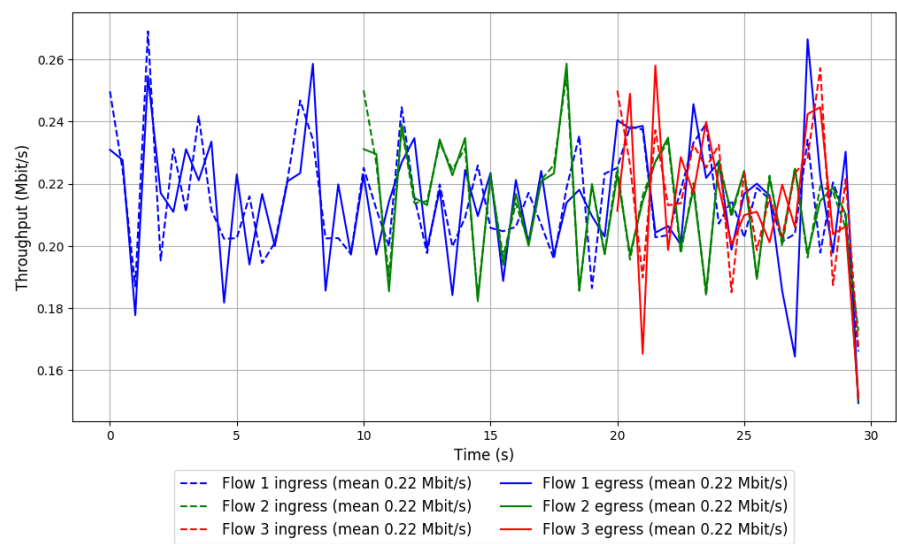


```
Run 1: Statistics of SCReAM

Start at: 2017-12-06 03:32:43
End at: 2017-12-06 03:33:13

# Below is generated by plot.py at 2017-12-06 08:13:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 53.576 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 53.603 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.589 ms
Loss rate: 0.43%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.413 ms
Loss rate: 1.12%
```

Run 1: Report of SReAM — Data Link

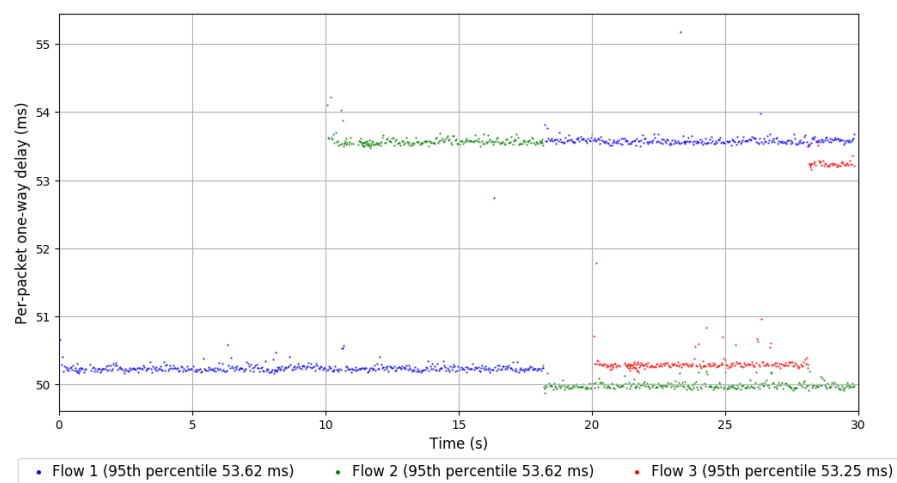
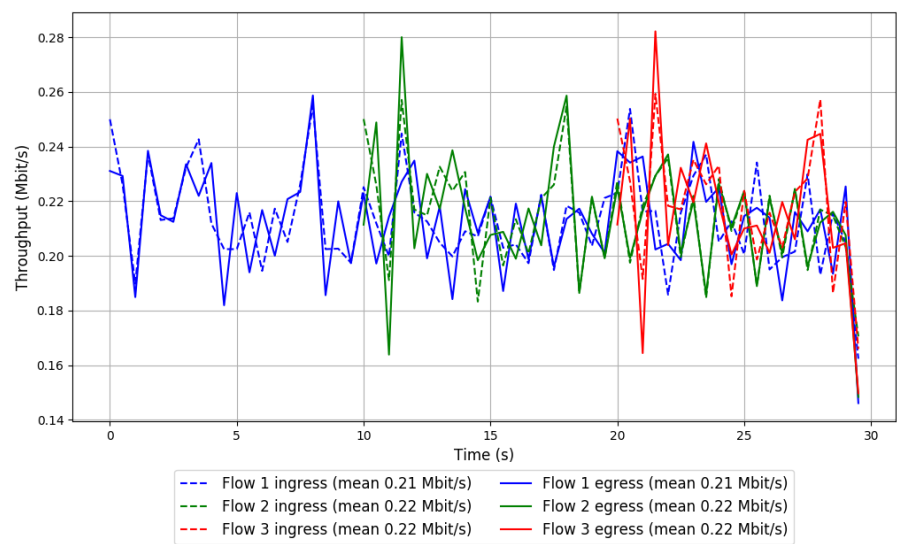


```
Run 2: Statistics of SCReAM

Start at: 2017-12-06 03:45:19
End at: 2017-12-06 03:45:49

# Below is generated by plot.py at 2017-12-06 08:13:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 53.618 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.620 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 53.623 ms
Loss rate: 0.42%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 53.252 ms
Loss rate: 1.10%
```

Run 2: Report of SReAM — Data Link

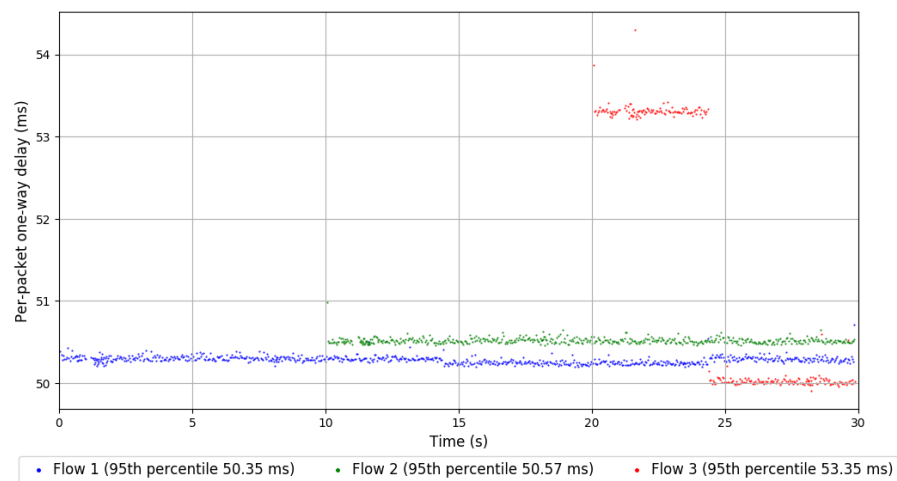
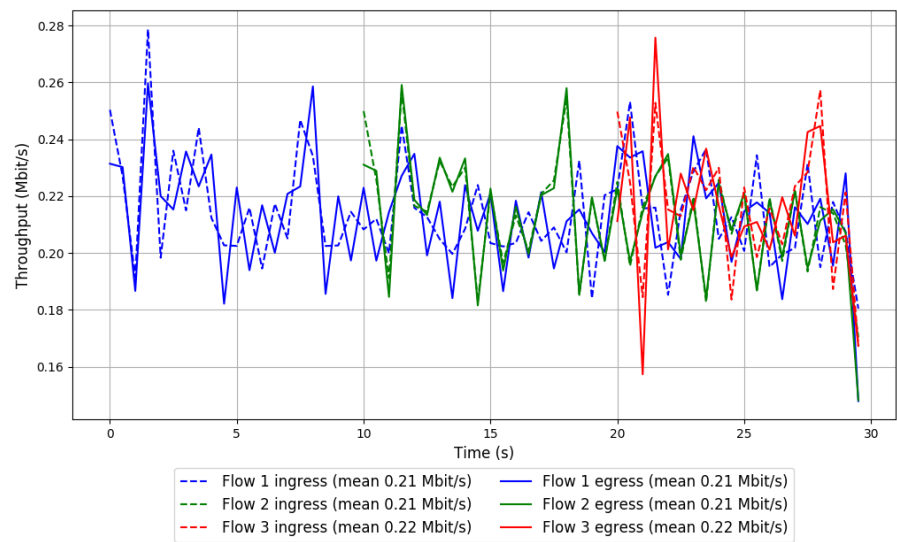


```
Run 3: Statistics of SCReAM

Start at: 2017-12-06 03:57:33
End at: 2017-12-06 03:58:03

# Below is generated by plot.py at 2017-12-06 08:13:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 53.295 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 50.346 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 50.571 ms
Loss rate: 0.42%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 53.352 ms
Loss rate: 0.74%
```


Run 3: Report of SReAM — Data Link

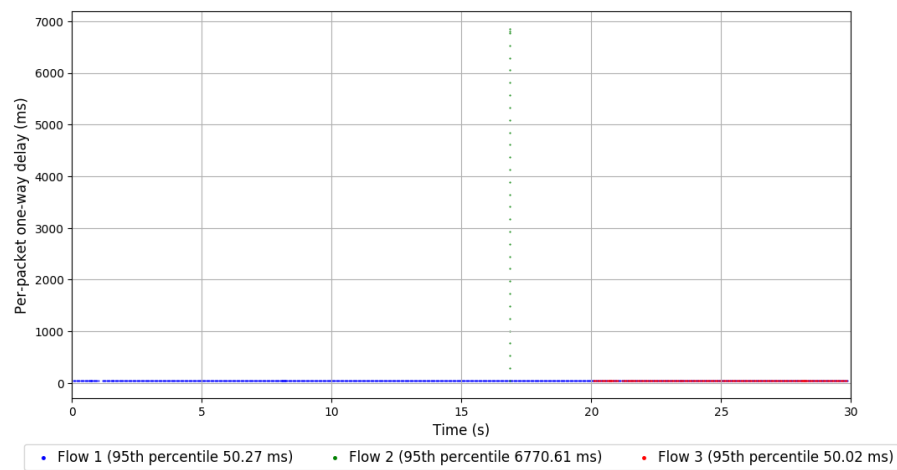
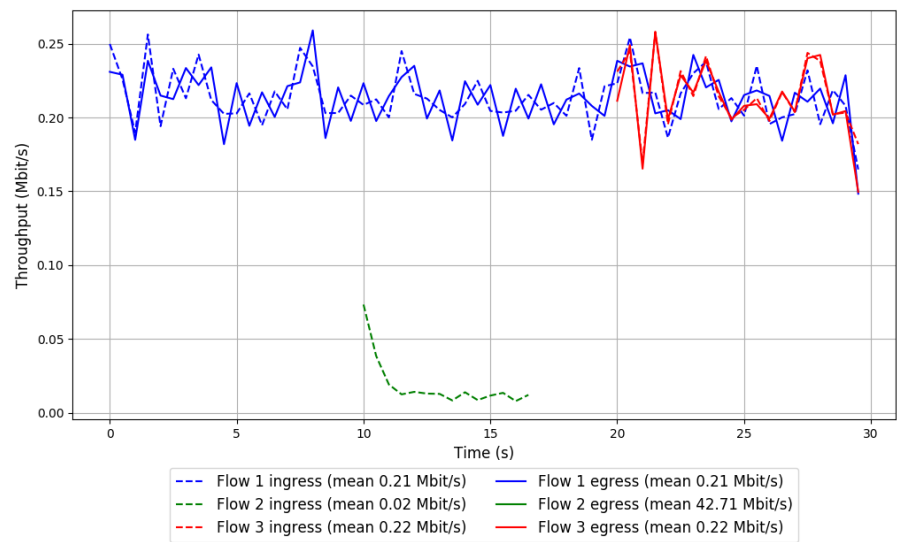


```
Run 4: Statistics of SReAM

Start at: 2017-12-06 04:09:32
End at: 2017-12-06 04:10:02

# Below is generated by plot.py at 2017-12-06 08:13:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.29 Mbit/s
95th percentile per-packet one-way delay: 50.294 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 50.269 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 42.71 Mbit/s
95th percentile per-packet one-way delay: 6770.615 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.024 ms
Loss rate: 1.11%
```

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2017-12-06 04:22:04

End at: 2017-12-06 04:22:34

Below is generated by plot.py at 2017-12-06 08:13:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 53.538 ms

Loss rate: 0.51%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.223 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.328 ms

Loss rate: 0.42%

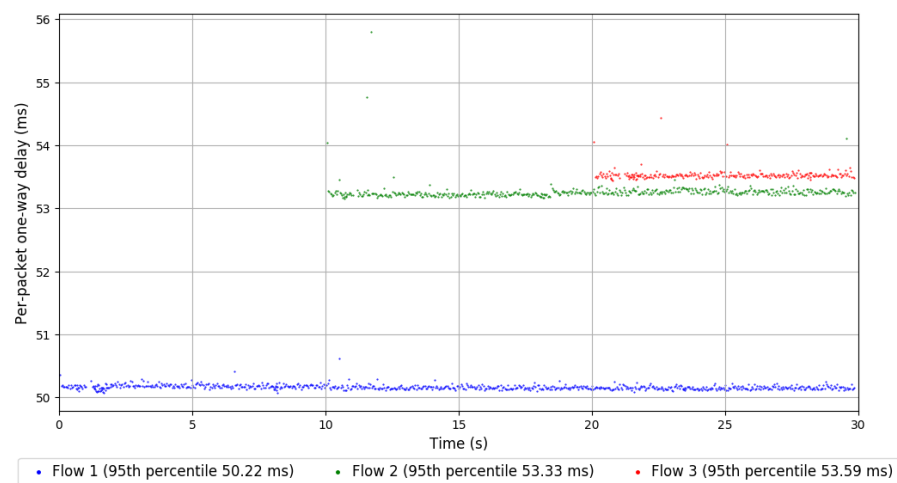
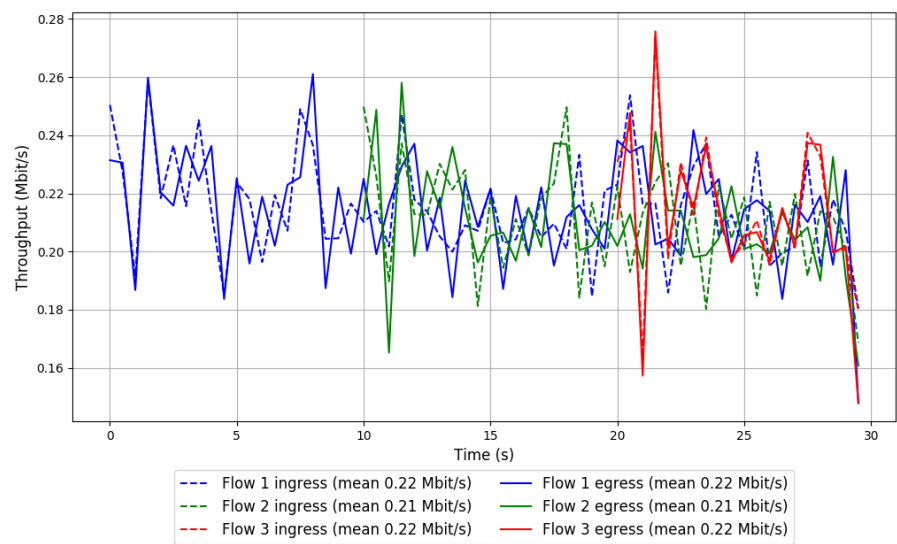
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 53.589 ms

Loss rate: 1.11%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2017-12-06 04:34:10

End at: 2017-12-06 04:34:40

Below is generated by plot.py at 2017-12-06 08:13:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 53.556 ms

Loss rate: 0.52%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.503 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.204 ms

Loss rate: 0.42%

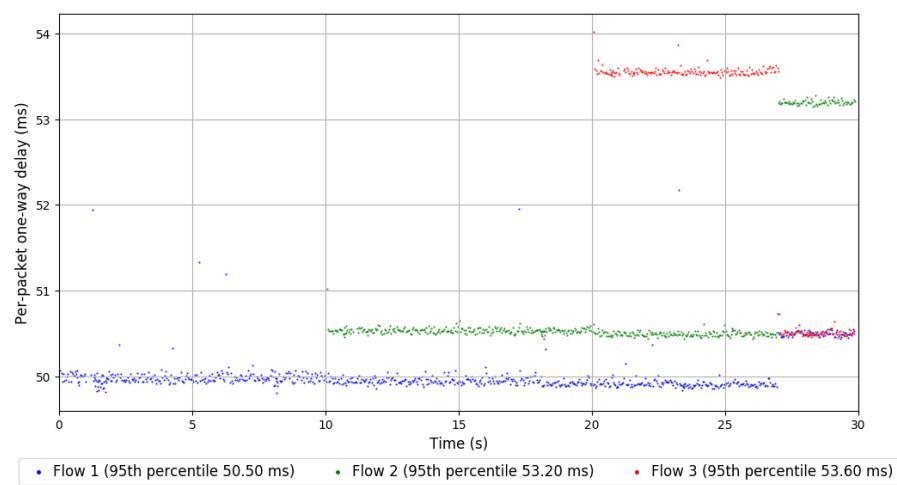
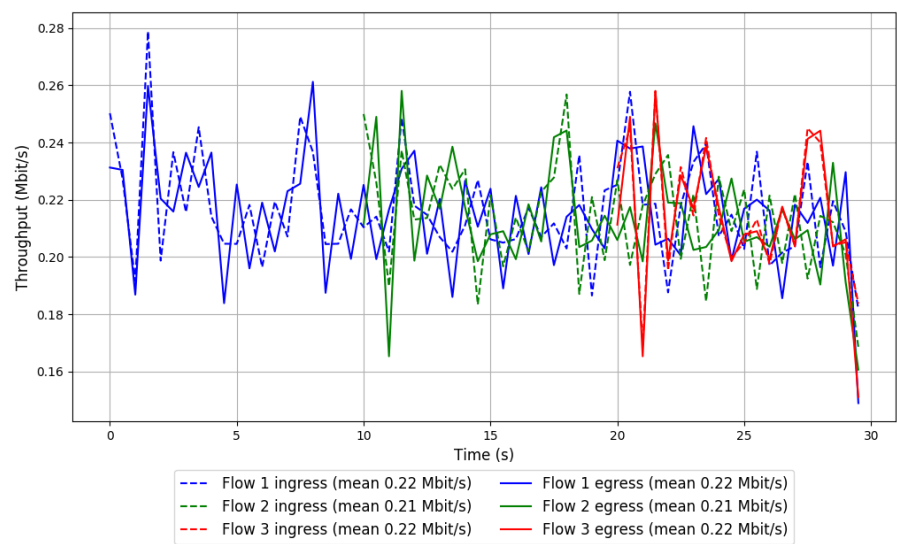
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 53.605 ms

Loss rate: 1.12%

Run 6: Report of SReAM — Data Link

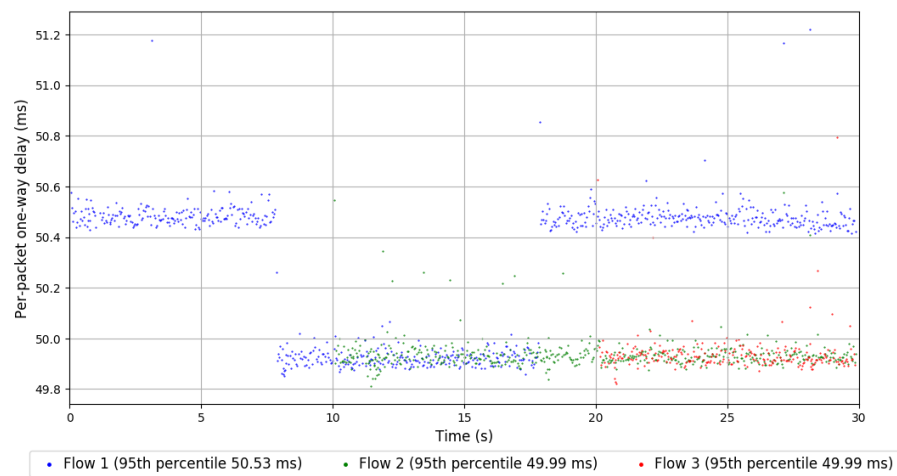
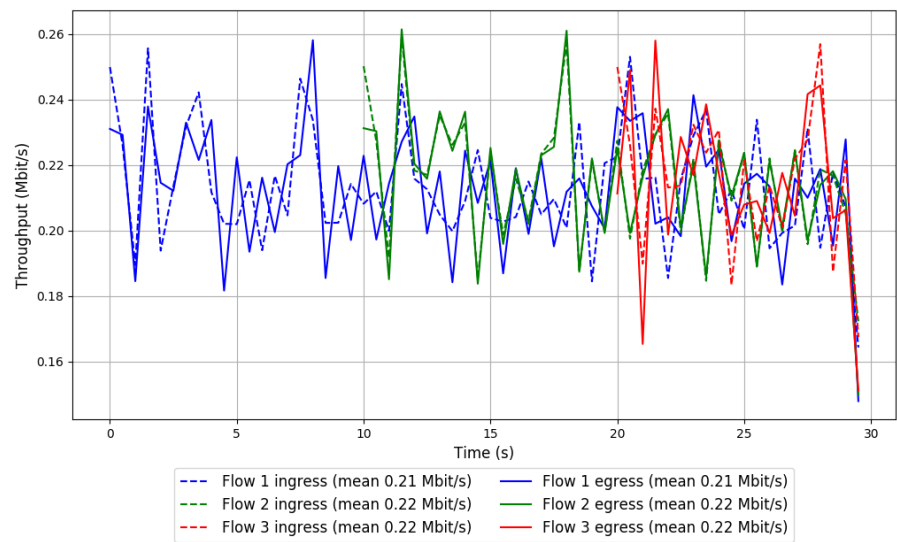


```
Run 7: Statistics of SReAM

Start at: 2017-12-06 04:46:19
End at: 2017-12-06 04:46:49

# Below is generated by plot.py at 2017-12-06 08:13:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 50.511 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 50.526 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 49.994 ms
Loss rate: 0.42%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 49.995 ms
Loss rate: 1.12%
```


Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2017-12-06 04:58:35

End at: 2017-12-06 04:59:05

Below is generated by plot.py at 2017-12-06 08:13:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 53.552 ms

Loss rate: 0.52%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.565 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.552 ms

Loss rate: 0.43%

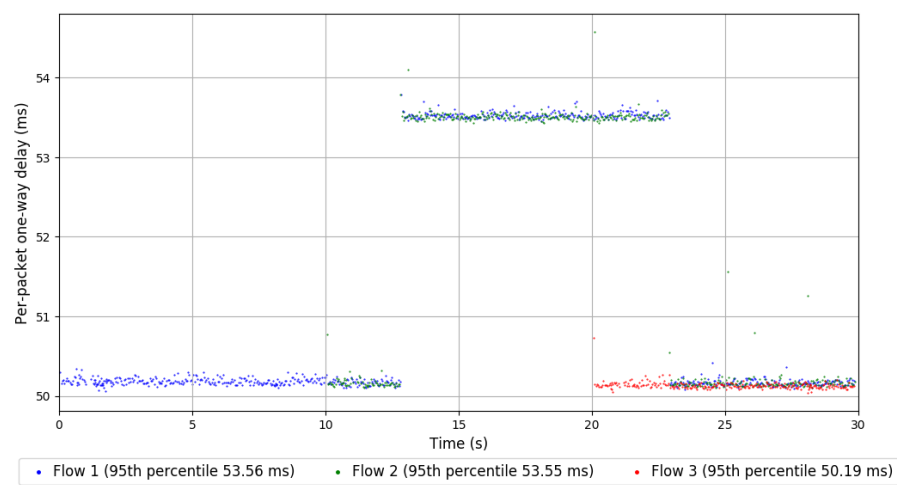
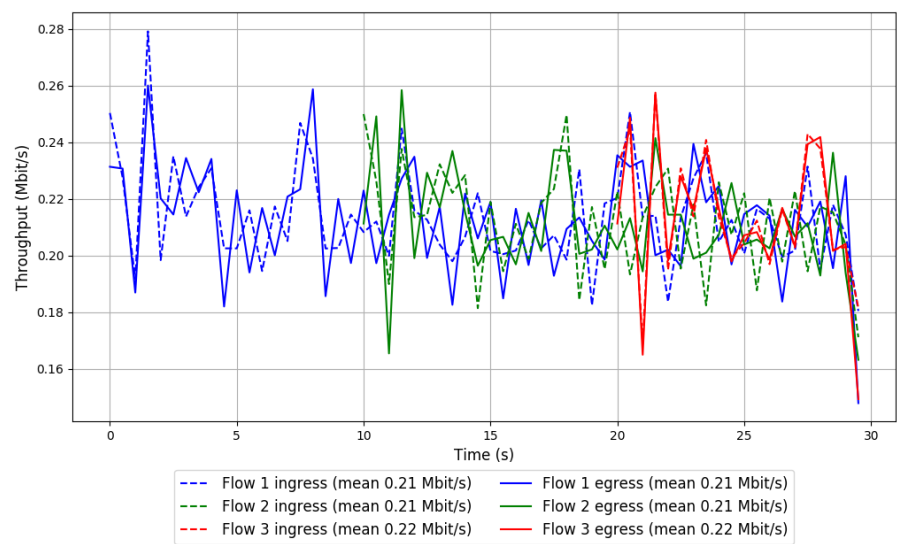
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.190 ms

Loss rate: 1.11%

Run 8: Report of SReAM — Data Link

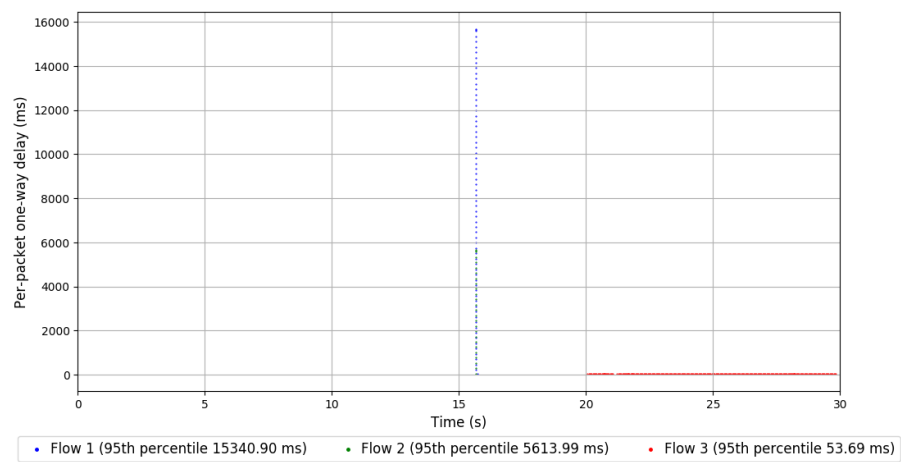
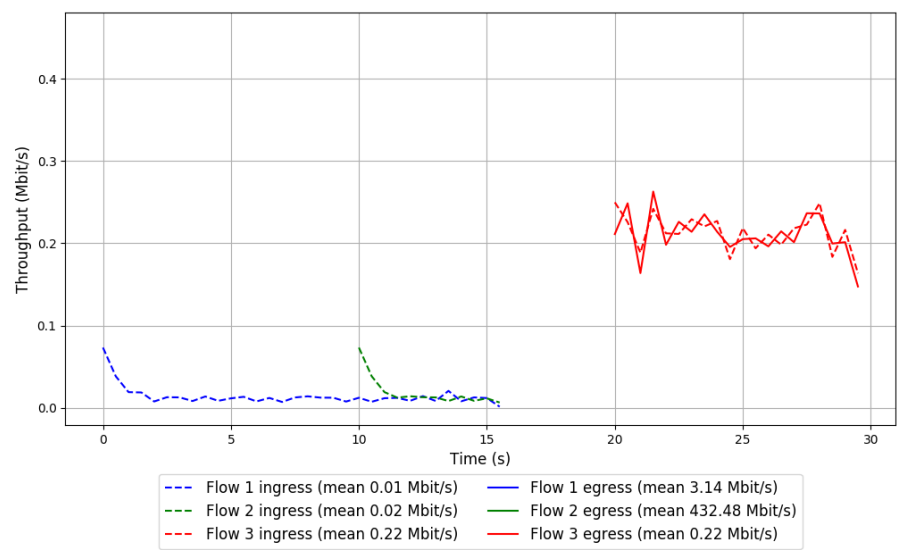


Run 9: Statistics of SReAM

Start at: 2017-12-06 05:10:27

End at: 2017-12-06 05:10:57

Run 9: Report of SReAM — Data Link

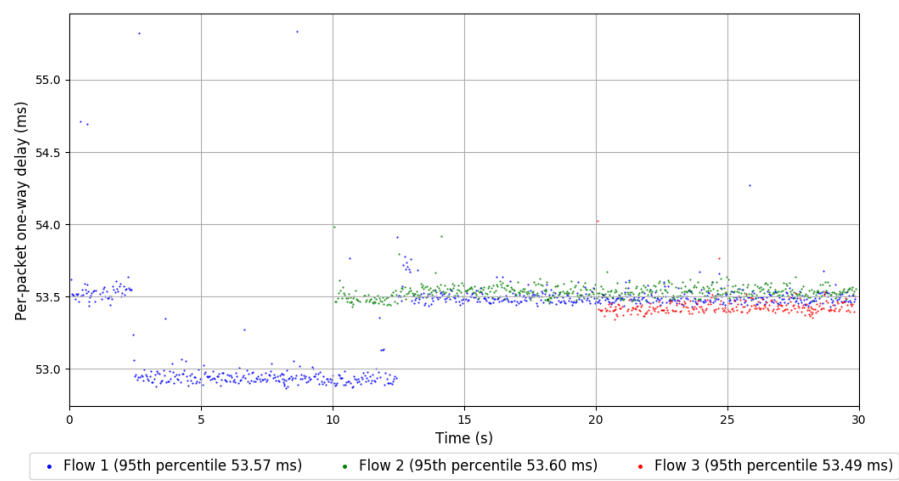
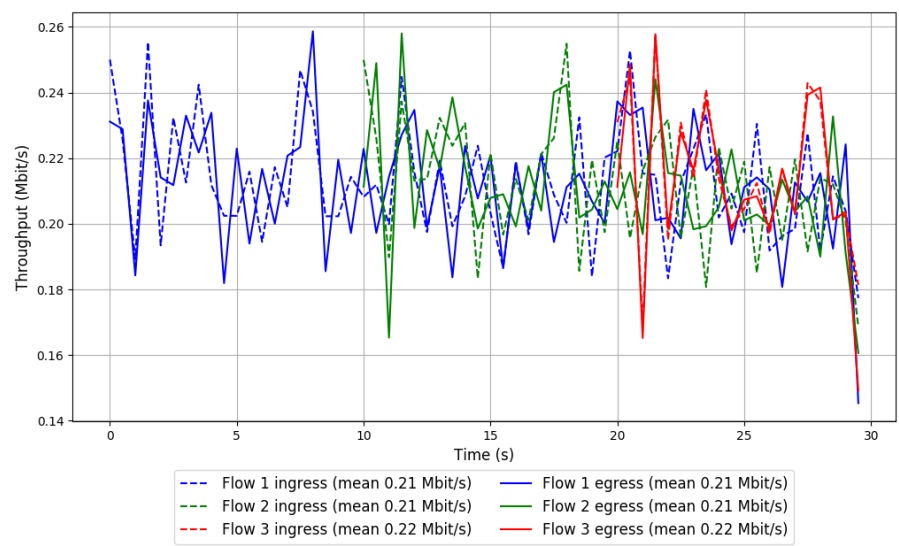


```
Run 10: Statistics of SCReAM

Start at: 2017-12-06 05:22:35
End at: 2017-12-06 05:23:05

# Below is generated by plot.py at 2017-12-06 08:13:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 53.587 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.572 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.598 ms
Loss rate: 0.42%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 53.493 ms
Loss rate: 1.11%
```

Run 10: Report of SReAM — Data Link

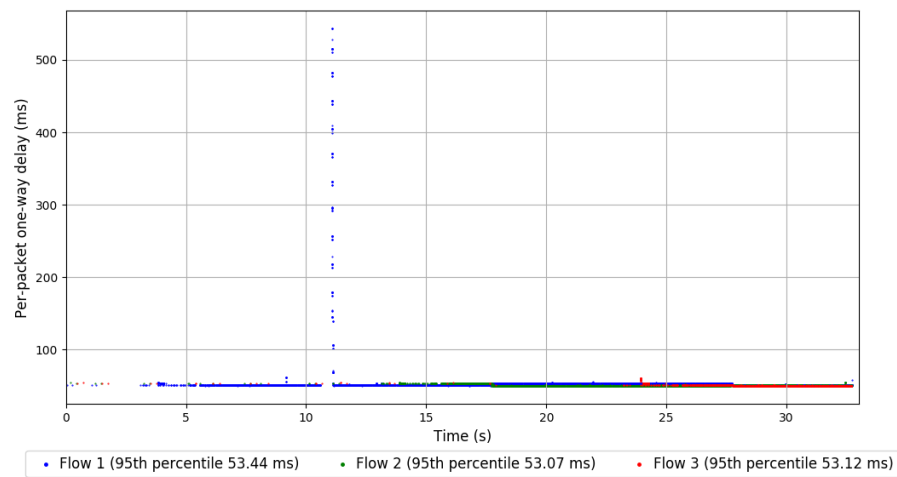
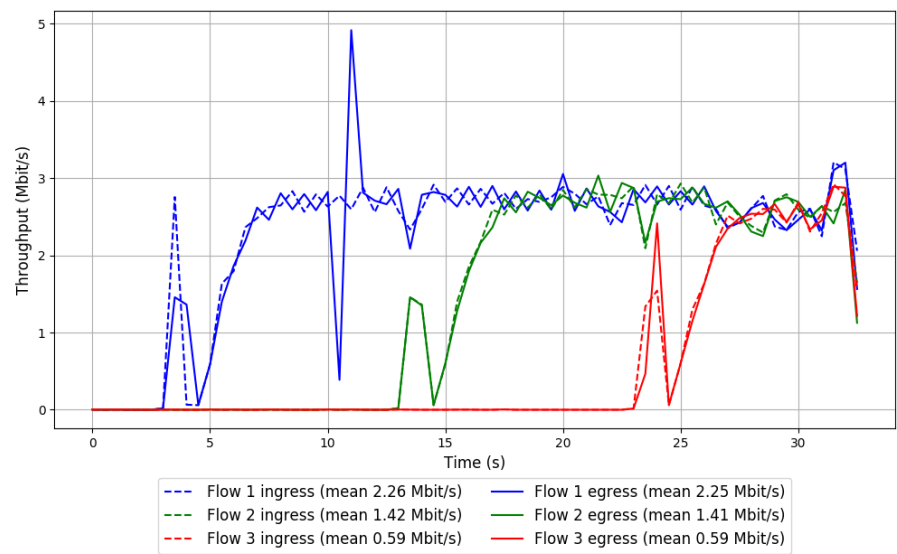


```
Run 1: Statistics of WebRTC media

Start at: 2017-12-06 03:31:02
End at: 2017-12-06 03:31:32

# Below is generated by plot.py at 2017-12-06 08:13:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.24 Mbit/s
95th percentile per-packet one-way delay: 53.395 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 2.25 Mbit/s
95th percentile per-packet one-way delay: 53.444 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 1.41 Mbit/s
95th percentile per-packet one-way delay: 53.071 ms
Loss rate: 0.78%
-- Flow 3:
Average throughput: 0.59 Mbit/s
95th percentile per-packet one-way delay: 53.124 ms
Loss rate: 1.46%
```


Run 1: Report of WebRTC media — Data Link

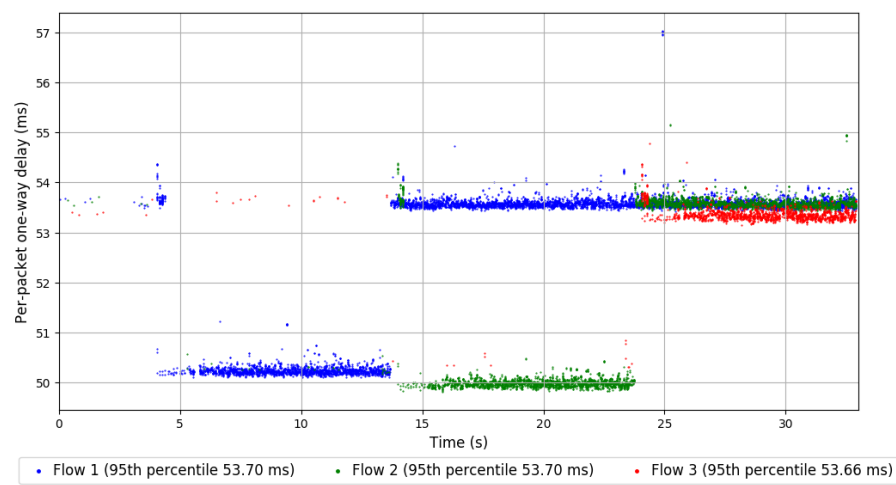
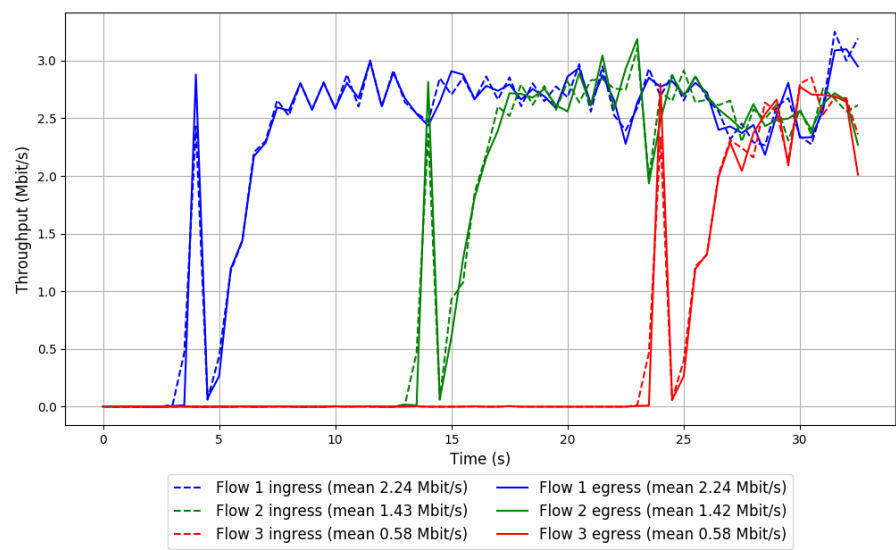


```
Run 2: Statistics of WebRTC media

Start at: 2017-12-06 03:43:37
End at: 2017-12-06 03:44:07

# Below is generated by plot.py at 2017-12-06 08:13:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.22 Mbit/s
95th percentile per-packet one-way delay: 53.697 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 2.24 Mbit/s
95th percentile per-packet one-way delay: 53.695 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 1.42 Mbit/s
95th percentile per-packet one-way delay: 53.704 ms
Loss rate: 0.58%
-- Flow 3:
Average throughput: 0.58 Mbit/s
95th percentile per-packet one-way delay: 53.663 ms
Loss rate: 1.56%
```

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2017-12-06 03:55:52

End at: 2017-12-06 03:56:22

Below is generated by plot.py at 2017-12-06 08:13:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.92 Mbit/s

95th percentile per-packet one-way delay: 53.720 ms

Loss rate: 0.67%

-- Flow 1:

Average throughput: 1.94 Mbit/s

95th percentile per-packet one-way delay: 53.749 ms

Loss rate: 0.42%

-- Flow 2:

Average throughput: 1.41 Mbit/s

95th percentile per-packet one-way delay: 53.378 ms

Loss rate: 0.58%

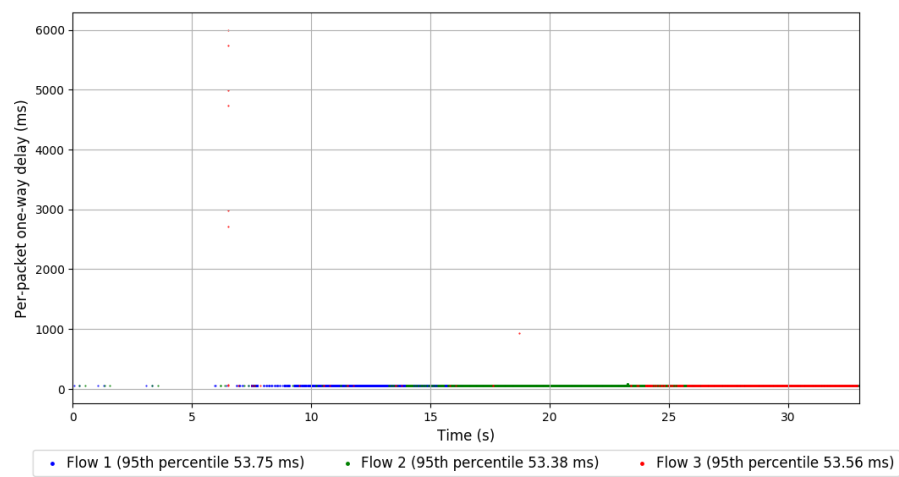
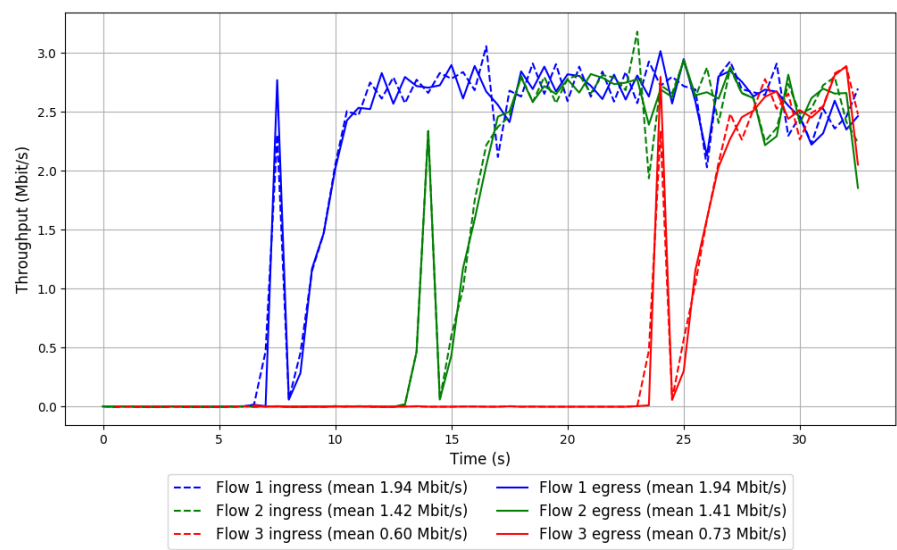
-- Flow 3:

Average throughput: 0.73 Mbit/s

95th percentile per-packet one-way delay: 53.556 ms

Loss rate: 1.72%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2017-12-06 04:07:51

End at: 2017-12-06 04:08:21

Below is generated by plot.py at 2017-12-06 08:13:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.25 Mbit/s

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

Loss rate: 0.67%

-- Flow 1:

Average throughput: 2.26 Mbit/s

95th percentile per-packet one-way delay: 50.286 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 1.42 Mbit/s

95th percentile per-packet one-way delay: 53.727 ms

Loss rate: 0.75%

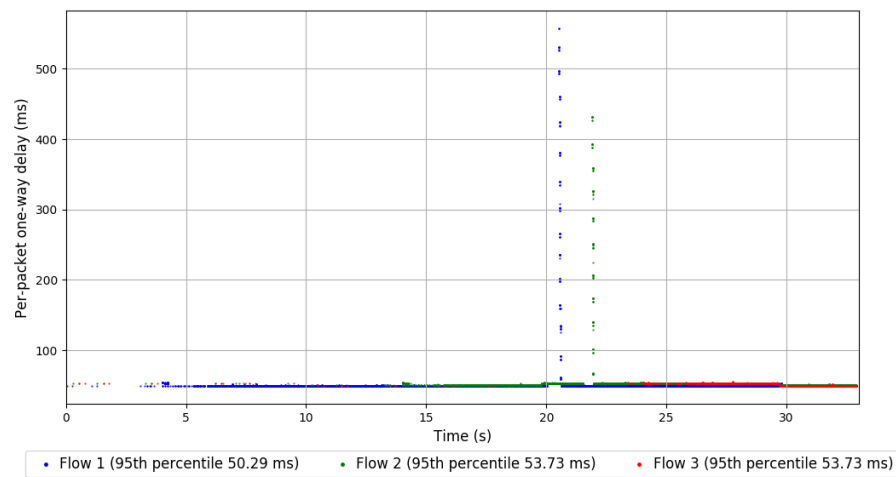
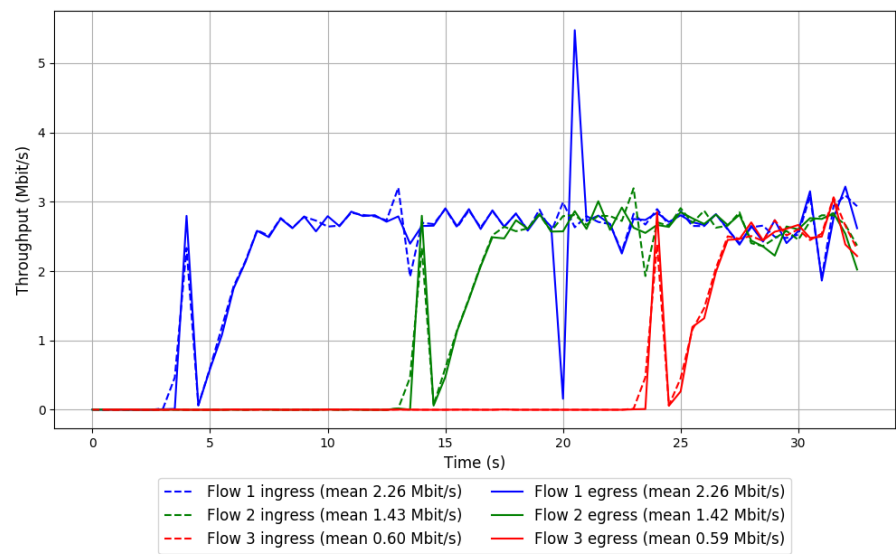
-- Flow 3:

Average throughput: 0.59 Mbit/s

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

Loss rate: 1.58%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2017-12-06 04:20:23

End at: 2017-12-06 04:20:53

Below is generated by plot.py at 2017-12-06 08:13:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.24 Mbit/s

95th percentile per-packet one-way delay: 53.670 ms

Loss rate: 0.65%

-- Flow 1:

Average throughput: 2.25 Mbit/s

95th percentile per-packet one-way delay: 50.643 ms

Loss rate: 0.43%

-- Flow 2:

Average throughput: 1.42 Mbit/s

95th percentile per-packet one-way delay: 53.733 ms

Loss rate: 0.74%

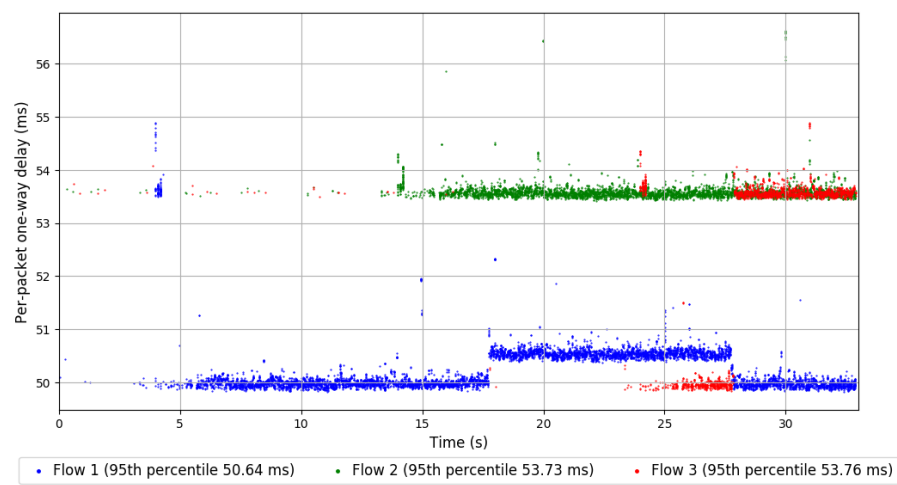
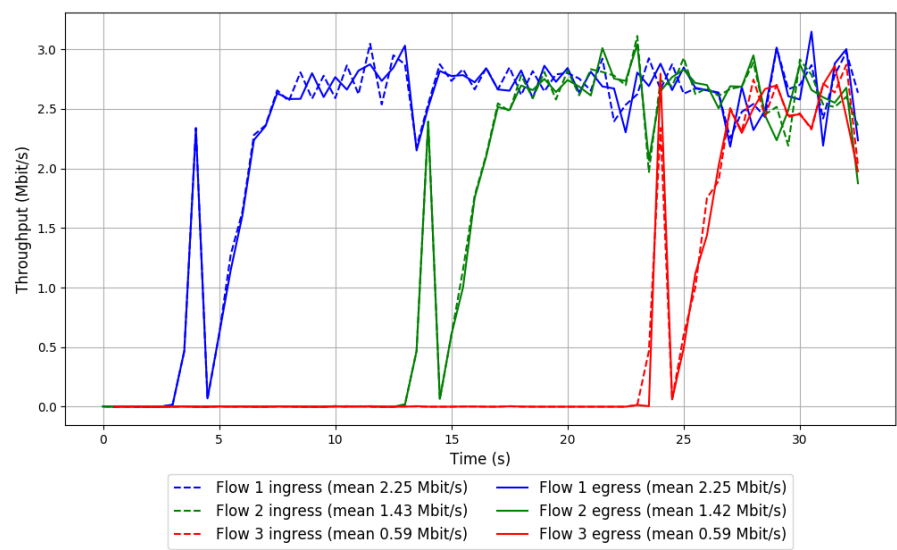
-- Flow 3:

Average throughput: 0.59 Mbit/s

95th percentile per-packet one-way delay: 53.756 ms

Loss rate: 1.28%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2017-12-06 04:32:29

End at: 2017-12-06 04:32:59

Below is generated by plot.py at 2017-12-06 08:13:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.65 Mbit/s

95th percentile per-packet one-way delay: 53.733 ms

Loss rate: 0.69%

-- Flow 1:

Average throughput: 2.42 Mbit/s

95th percentile per-packet one-way delay: 53.212 ms

Loss rate: 0.50%

-- Flow 2:

Average throughput: 1.58 Mbit/s

95th percentile per-packet one-way delay: 53.788 ms

Loss rate: 0.73%

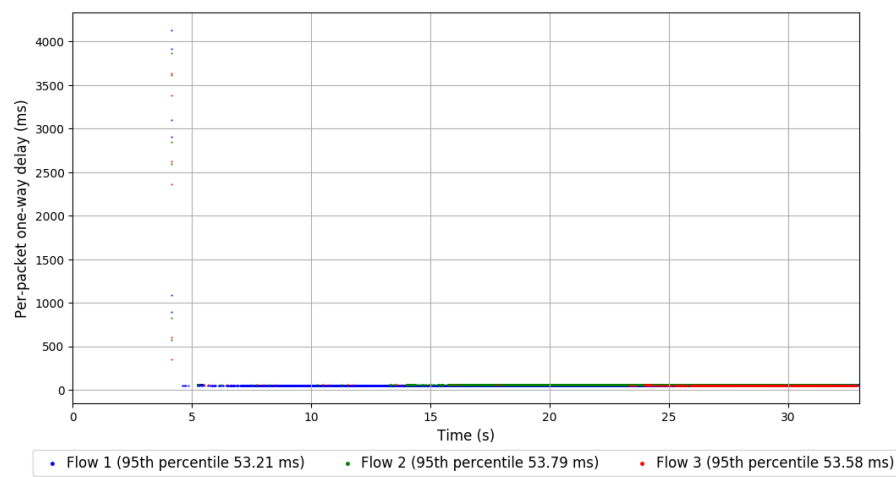
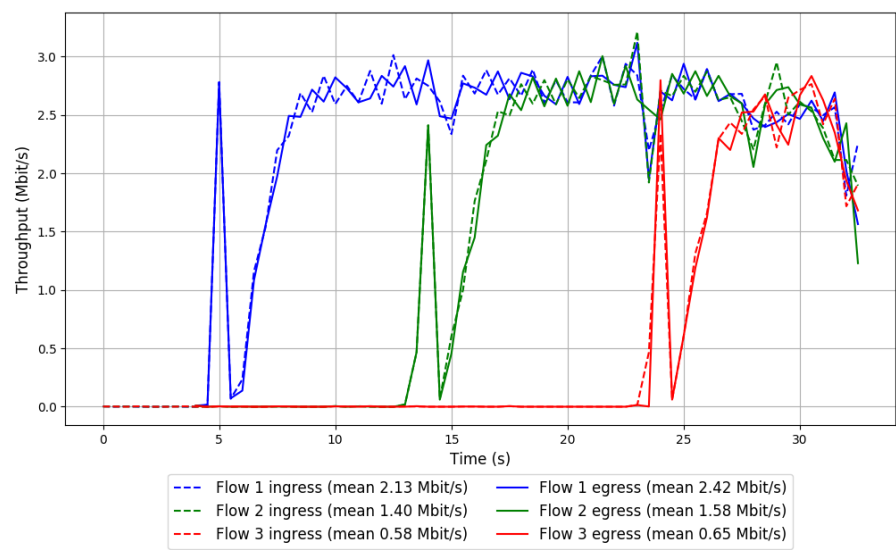
-- Flow 3:

Average throughput: 0.65 Mbit/s

95th percentile per-packet one-way delay: 53.581 ms

Loss rate: 1.29%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2017-12-06 04:44:39

End at: 2017-12-06 04:45:09

Below is generated by plot.py at 2017-12-06 08:13:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.24 Mbit/s

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

Loss rate: 0.70%

-- Flow 1:

Average throughput: 2.25 Mbit/s

95th percentile per-packet one-way delay: 53.672 ms

Loss rate: 0.50%

-- Flow 2:

Average throughput: 1.42 Mbit/s

95th percentile per-packet one-way delay: 53.705 ms

Loss rate: 0.75%

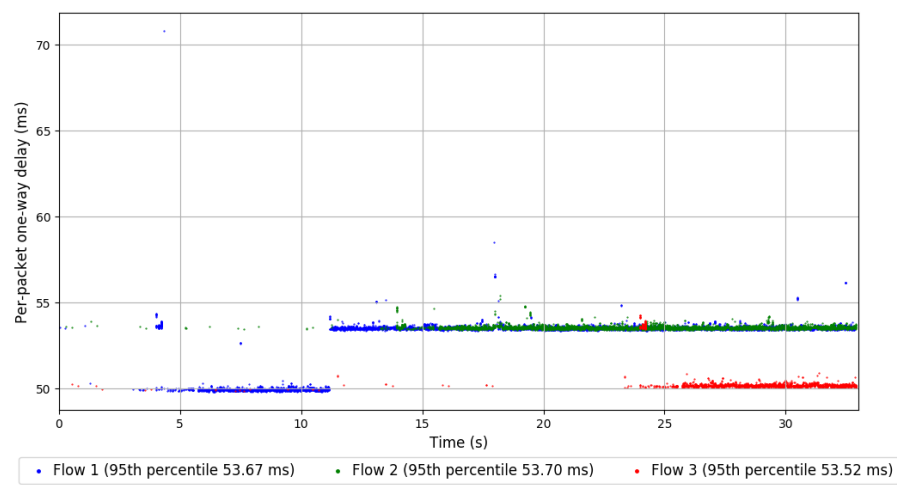
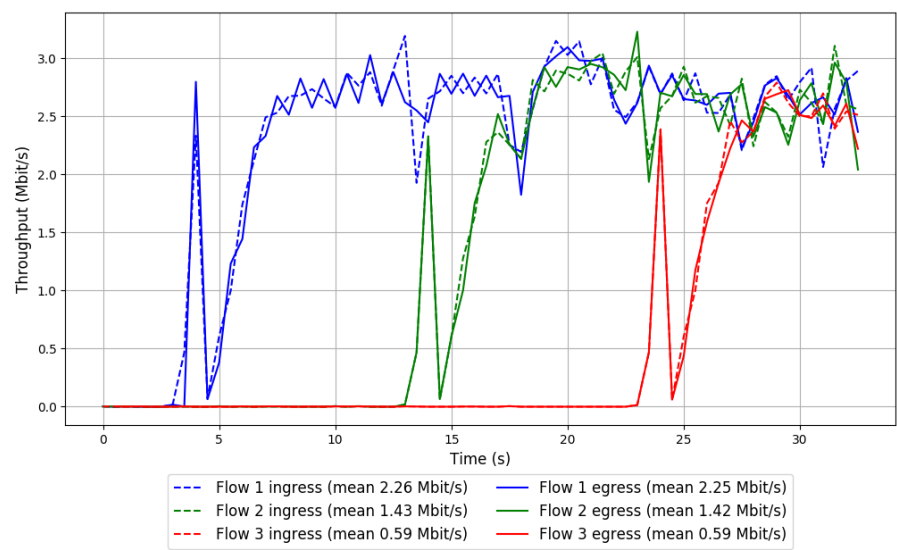
-- Flow 3:

Average throughput: 0.59 Mbit/s

95th percentile per-packet one-way delay: 53.524 ms

Loss rate: 1.36%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2017-12-06 04:56:53

End at: 2017-12-06 04:57:23

Below is generated by plot.py at 2017-12-06 08:13:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.44 Mbit/s

95th percentile per-packet one-way delay: 53.754 ms

Loss rate: 0.65%

-- Flow 1:

Average throughput: 2.35 Mbit/s

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

Loss rate: 0.44%

-- Flow 2:

Average throughput: 1.47 Mbit/s

95th percentile per-packet one-way delay: 50.782 ms

Loss rate: 0.51%

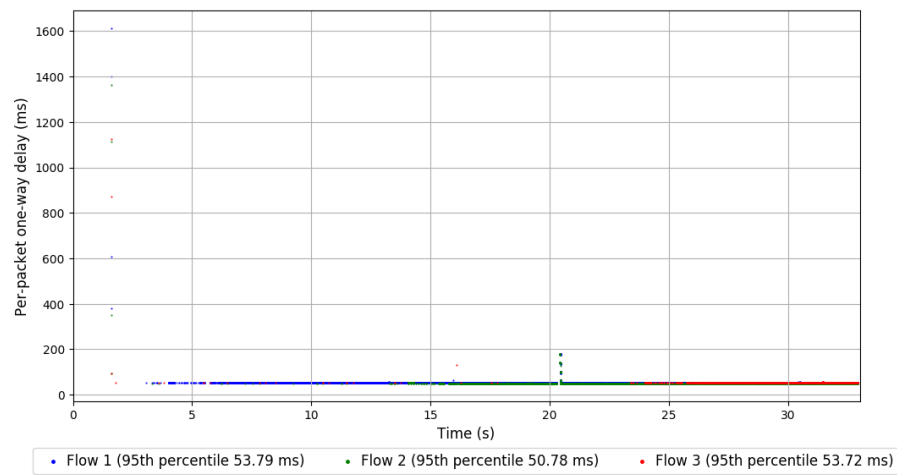
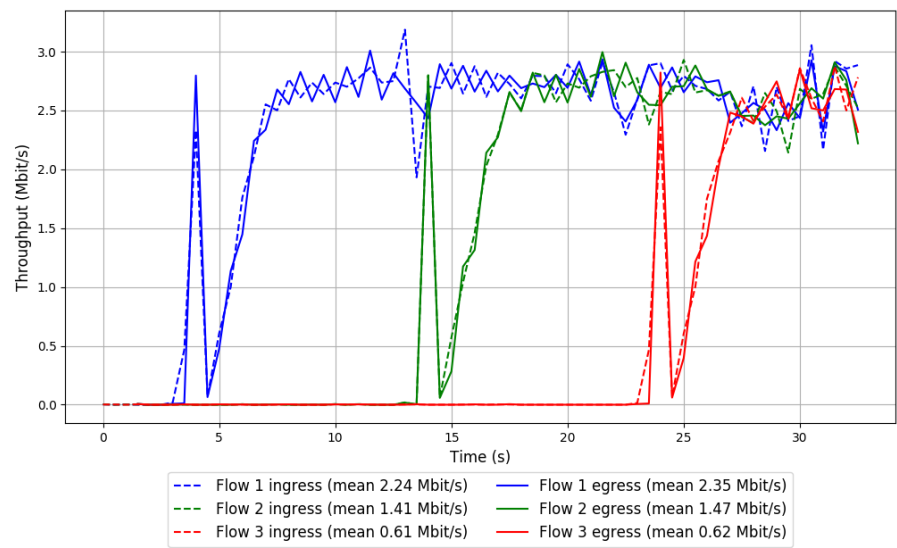
-- Flow 3:

Average throughput: 0.62 Mbit/s

95th percentile per-packet one-way delay: 53.723 ms

Loss rate: 1.76%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2017-12-06 05:08:43

End at: 2017-12-06 05:09:13

Below is generated by plot.py at 2017-12-06 08:13:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.45 Mbit/s

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

Loss rate: 0.68%

-- Flow 1:

Average throughput: 2.36 Mbit/s

95th percentile per-packet one-way delay: 53.712 ms

Loss rate: 0.33%

-- Flow 2:

Average throughput: 1.49 Mbit/s

95th percentile per-packet one-way delay: 53.665 ms

Loss rate: 0.65%

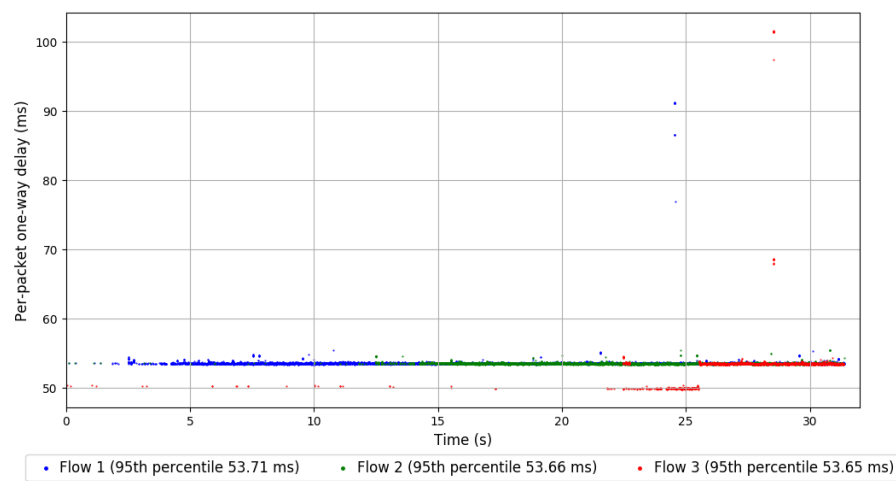
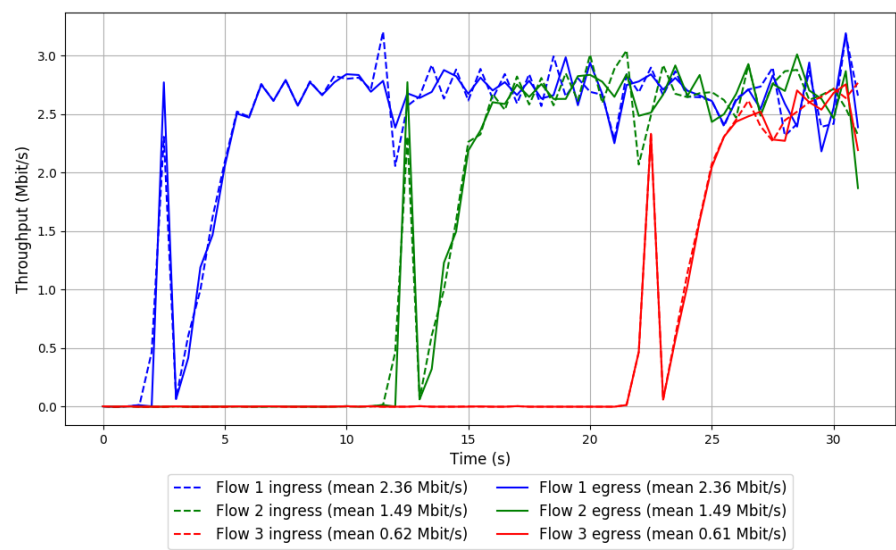
-- Flow 3:

Average throughput: 0.61 Mbit/s

95th percentile per-packet one-way delay: 53.654 ms

Loss rate: 2.08%

Run 9: Report of WebRTC media — Data Link

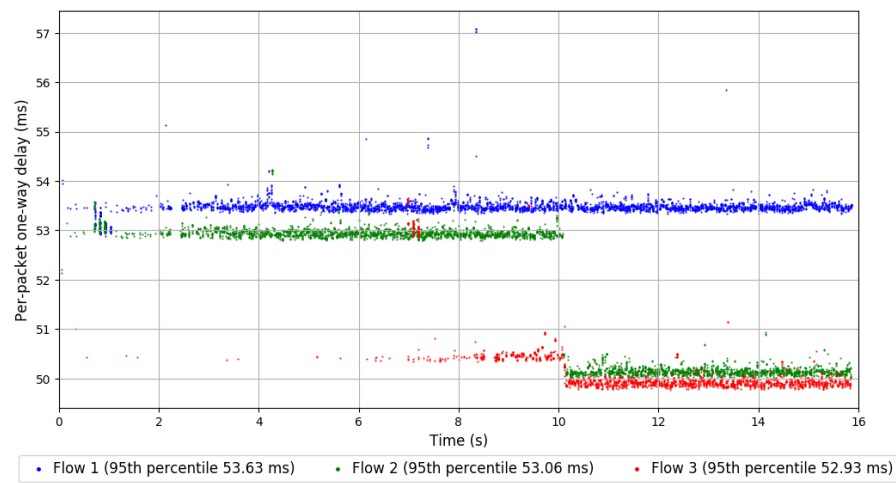
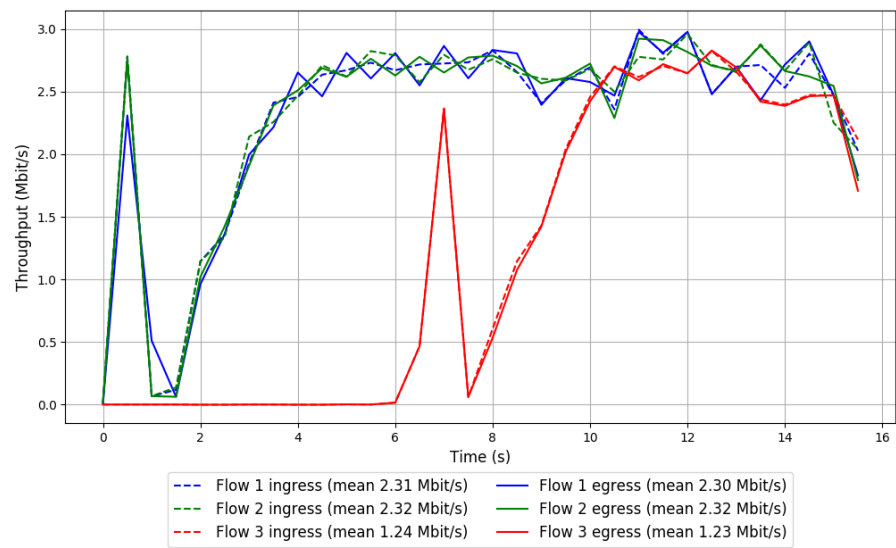


Run 10: Statistics of WebRTC media

Start at: 2017-12-06 05:20:53

End at: 2017-12-06 05:21:23

Run 10: Report of WebRTC media — Data Link

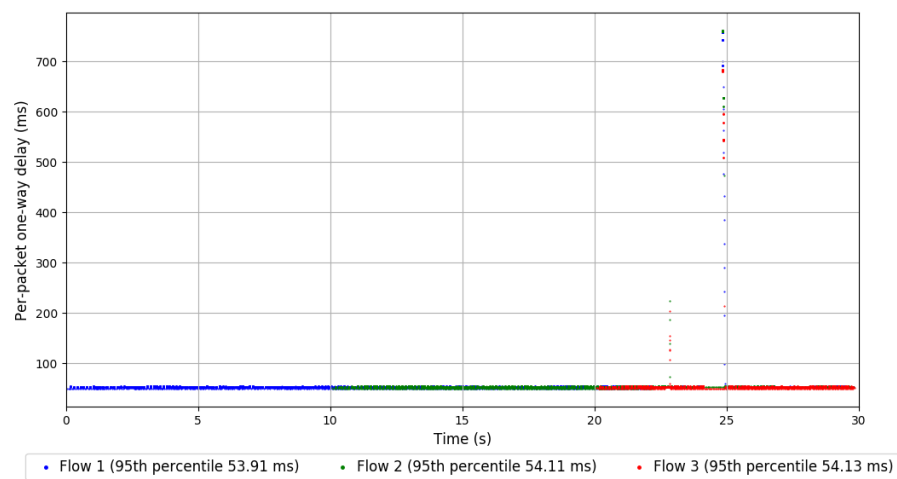
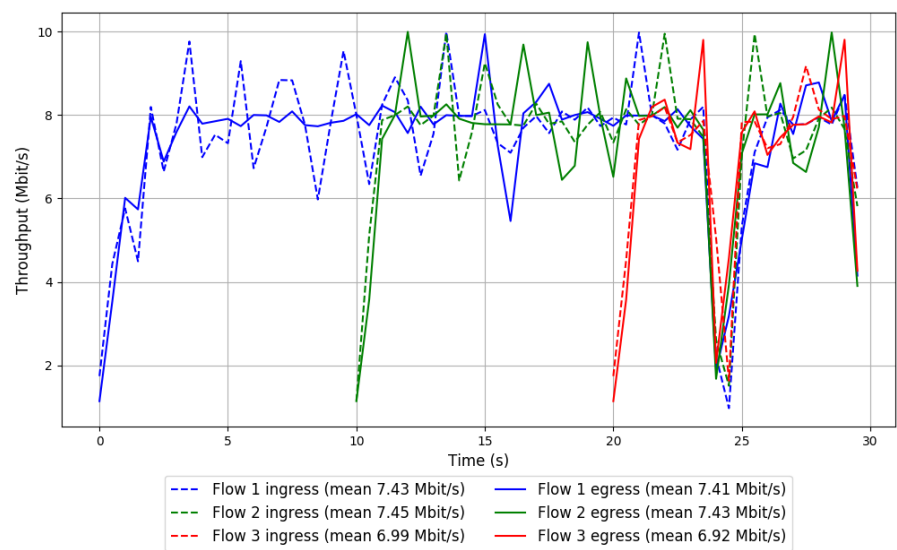


```
Run 1: Statistics of Sprout

Start at: 2017-12-06 03:40:45
End at: 2017-12-06 03:41:15

# Below is generated by plot.py at 2017-12-06 08:13:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 14.60 Mbit/s
95th percentile per-packet one-way delay: 54.020 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 7.41 Mbit/s
95th percentile per-packet one-way delay: 53.914 ms
Loss rate: 0.49%
-- Flow 2:
Average throughput: 7.43 Mbit/s
95th percentile per-packet one-way delay: 54.106 ms
Loss rate: 0.72%
-- Flow 3:
Average throughput: 6.92 Mbit/s
95th percentile per-packet one-way delay: 54.131 ms
Loss rate: 1.45%
```

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2017-12-06 03:53:07

End at: 2017-12-06 03:53:37

Below is generated by plot.py at 2017-12-06 08:13:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.27 Mbit/s

95th percentile per-packet one-way delay: 54.540 ms

Loss rate: 0.65%

-- Flow 1:

Average throughput: 7.59 Mbit/s

95th percentile per-packet one-way delay: 54.555 ms

Loss rate: 0.45%

-- Flow 2:

Average throughput: 7.76 Mbit/s

95th percentile per-packet one-way delay: 54.533 ms

Loss rate: 0.71%

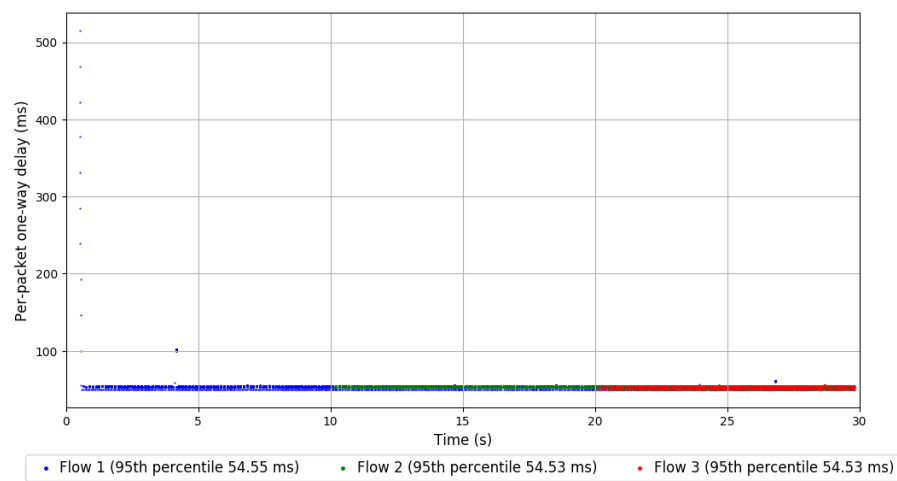
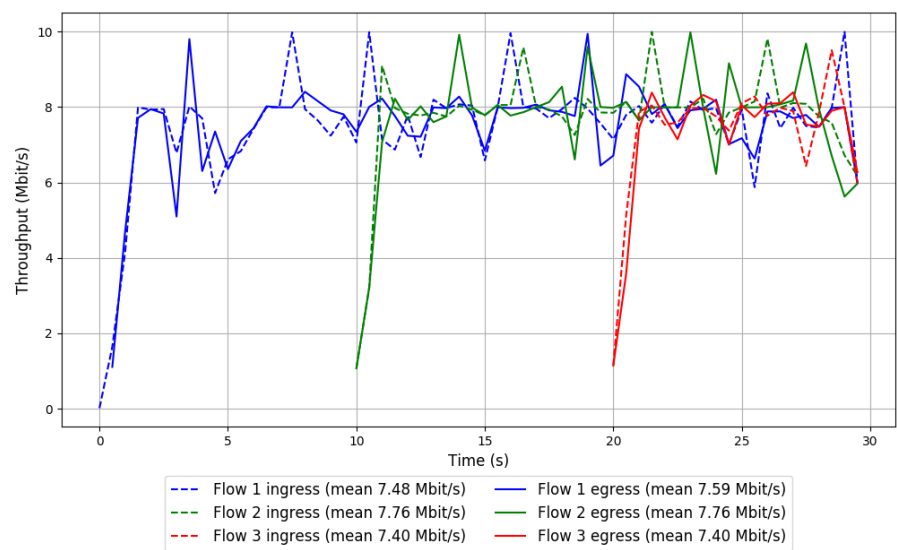
-- Flow 3:

Average throughput: 7.40 Mbit/s

95th percentile per-packet one-way delay: 54.528 ms

Loss rate: 1.16%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2017-12-06 04:05:15

End at: 2017-12-06 04:05:45

Below is generated by plot.py at 2017-12-06 08:13:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.18 Mbit/s

95th percentile per-packet one-way delay: 54.499 ms

Loss rate: 0.61%

-- Flow 1:

Average throughput: 7.74 Mbit/s

95th percentile per-packet one-way delay: 54.488 ms

Loss rate: 0.43%

-- Flow 2:

Average throughput: 7.69 Mbit/s

95th percentile per-packet one-way delay: 54.461 ms

Loss rate: 0.65%

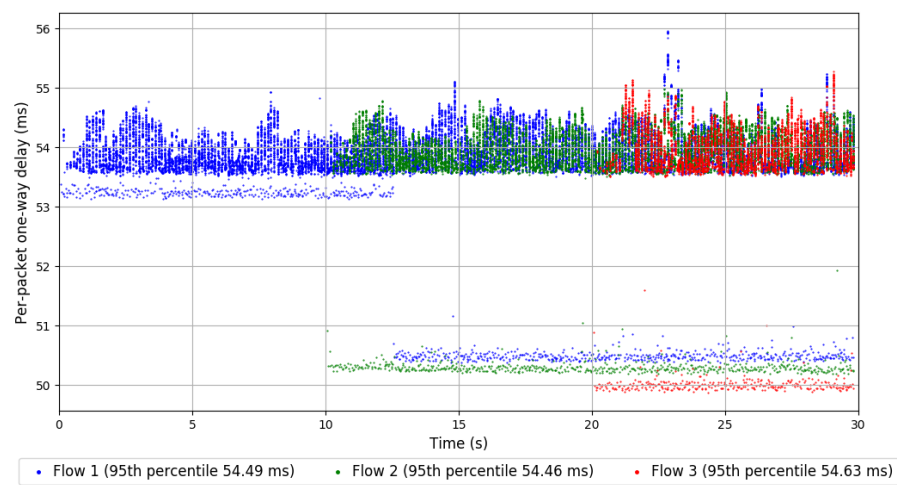
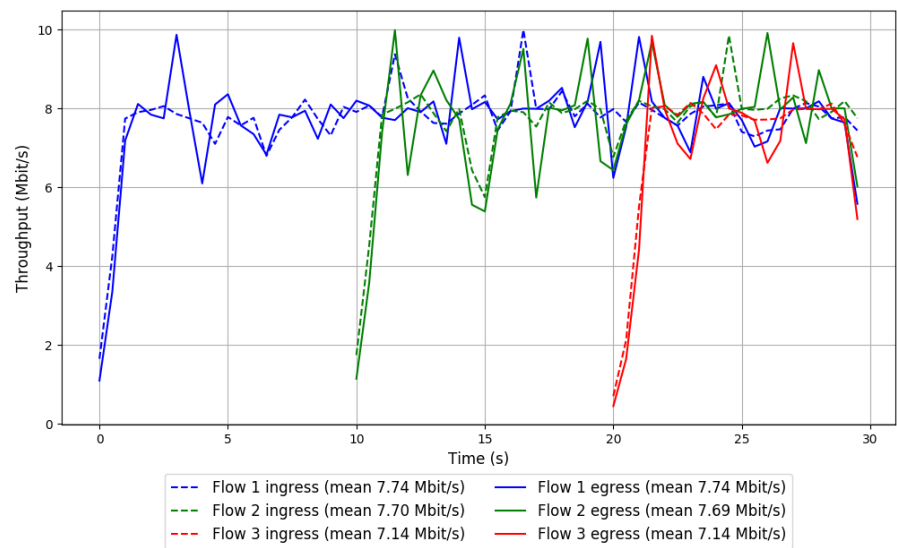
-- Flow 3:

Average throughput: 7.14 Mbit/s

95th percentile per-packet one-way delay: 54.634 ms

Loss rate: 1.12%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2017-12-06 04:17:31

End at: 2017-12-06 04:18:01

Below is generated by plot.py at 2017-12-06 08:13:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.19 Mbit/s

95th percentile per-packet one-way delay: 54.486 ms

Loss rate: 0.64%

-- Flow 1:

Average throughput: 7.70 Mbit/s

95th percentile per-packet one-way delay: 54.427 ms

Loss rate: 0.40%

-- Flow 2:

Average throughput: 7.74 Mbit/s

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

Loss rate: 0.65%

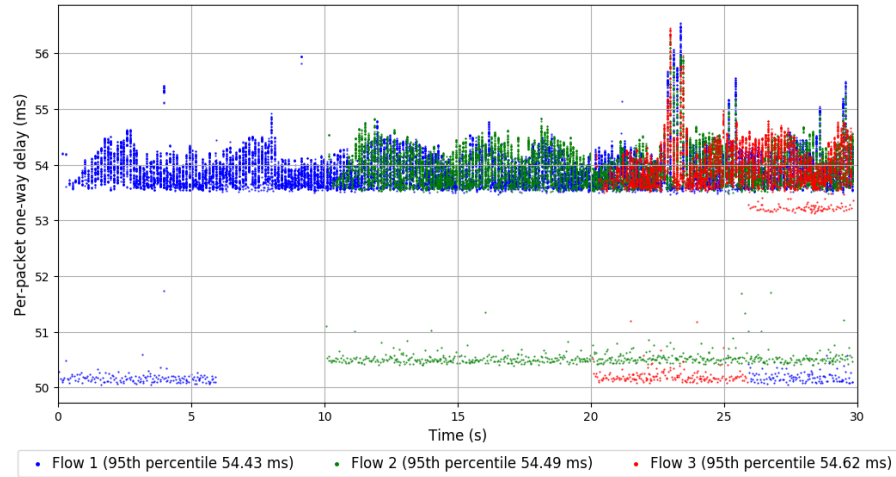
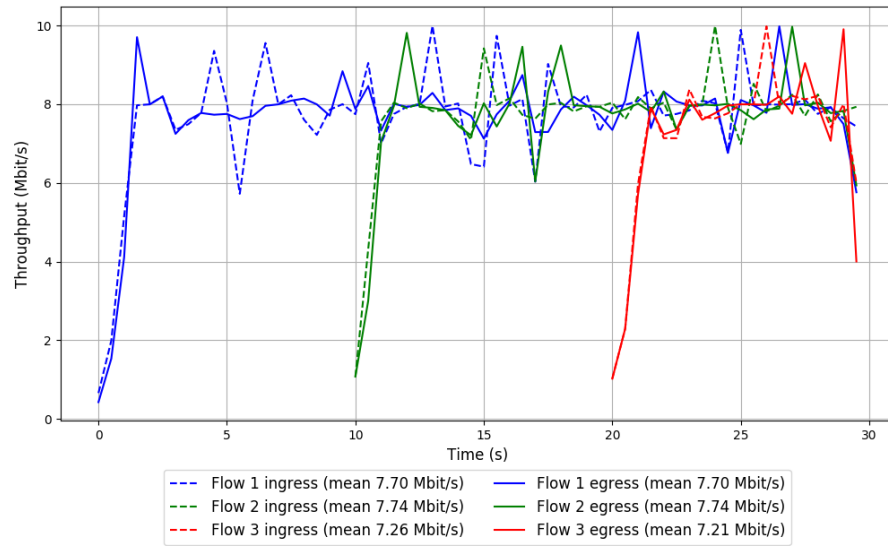
-- Flow 3:

Average throughput: 7.21 Mbit/s

95th percentile per-packet one-way delay: 54.625 ms

Loss rate: 1.40%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2017-12-06 04:29:38

End at: 2017-12-06 04:30:08

Below is generated by plot.py at 2017-12-06 08:13:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.26 Mbit/s

95th percentile per-packet one-way delay: 54.506 ms

Loss rate: 0.59%

-- Flow 1:

Average throughput: 7.74 Mbit/s

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

Loss rate: 0.40%

-- Flow 2:

Average throughput: 7.79 Mbit/s

95th percentile per-packet one-way delay: 54.521 ms

Loss rate: 0.49%

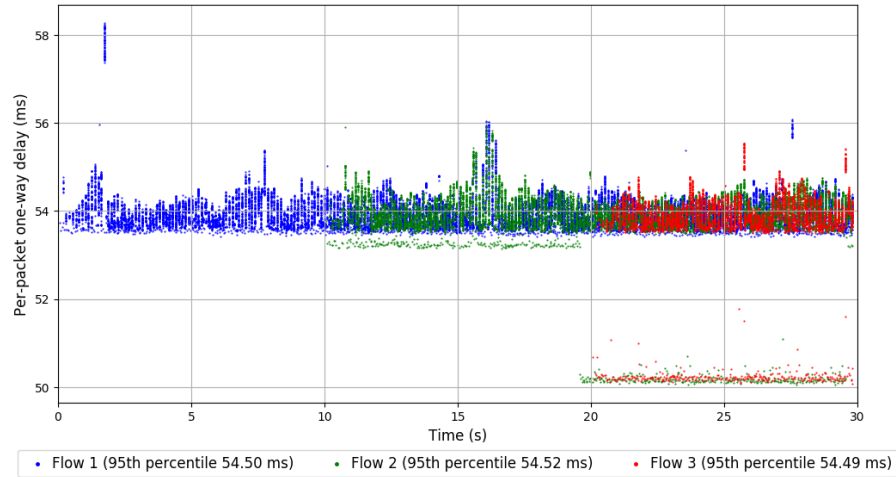
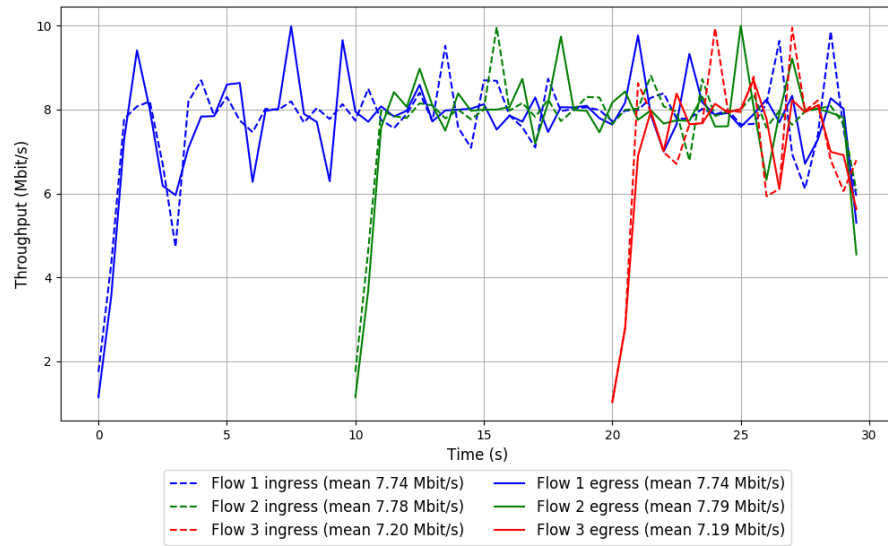
-- Flow 3:

Average throughput: 7.19 Mbit/s

95th percentile per-packet one-way delay: 54.494 ms

Loss rate: 1.40%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2017-12-06 04:41:58

End at: 2017-12-06 04:42:28

Below is generated by plot.py at 2017-12-06 08:13:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.24 Mbit/s

95th percentile per-packet one-way delay: 54.480 ms

Loss rate: 0.54%

-- Flow 1:

Average throughput: 7.75 Mbit/s

95th percentile per-packet one-way delay: 54.474 ms

Loss rate: 0.29%

-- Flow 2:

Average throughput: 7.65 Mbit/s

95th percentile per-packet one-way delay: 54.500 ms

Loss rate: 0.54%

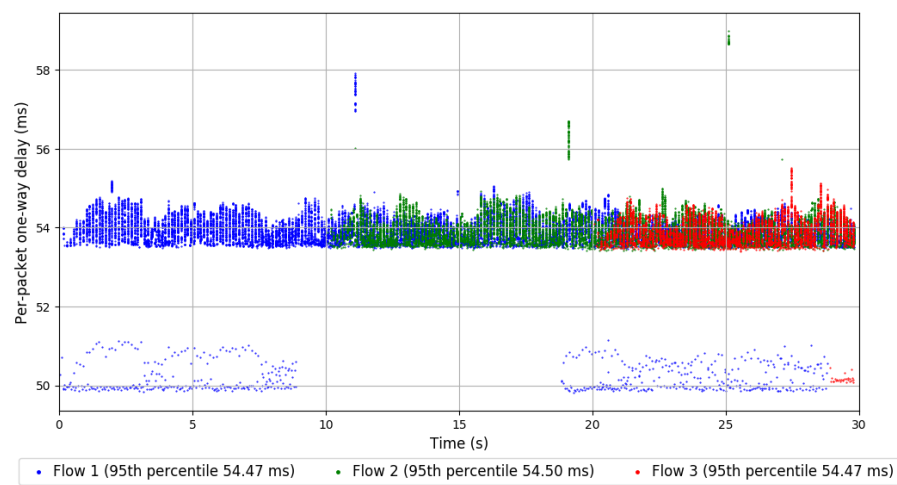
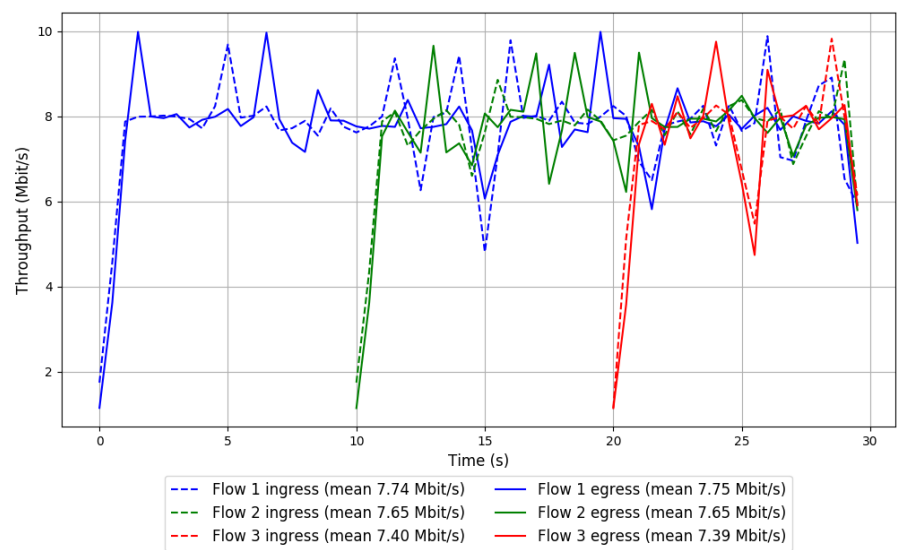
-- Flow 3:

Average throughput: 7.39 Mbit/s

95th percentile per-packet one-way delay: 54.467 ms

Loss rate: 1.34%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2017-12-06 04:54:06

End at: 2017-12-06 04:54:36

Below is generated by plot.py at 2017-12-06 08:13:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.18 Mbit/s

95th percentile per-packet one-way delay: 54.395 ms

Loss rate: 0.63%

-- Flow 1:

Average throughput: 7.65 Mbit/s

95th percentile per-packet one-way delay: 54.339 ms

Loss rate: 0.44%

-- Flow 2:

Average throughput: 7.65 Mbit/s

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

Loss rate: 0.48%

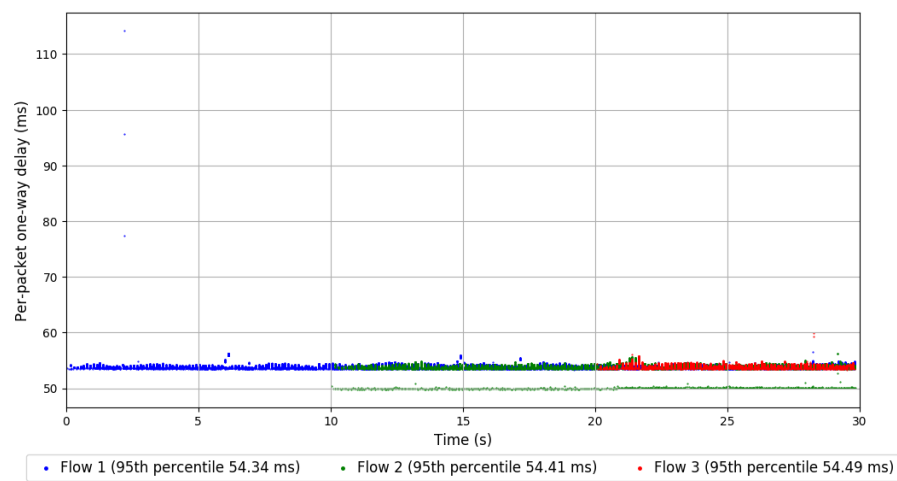
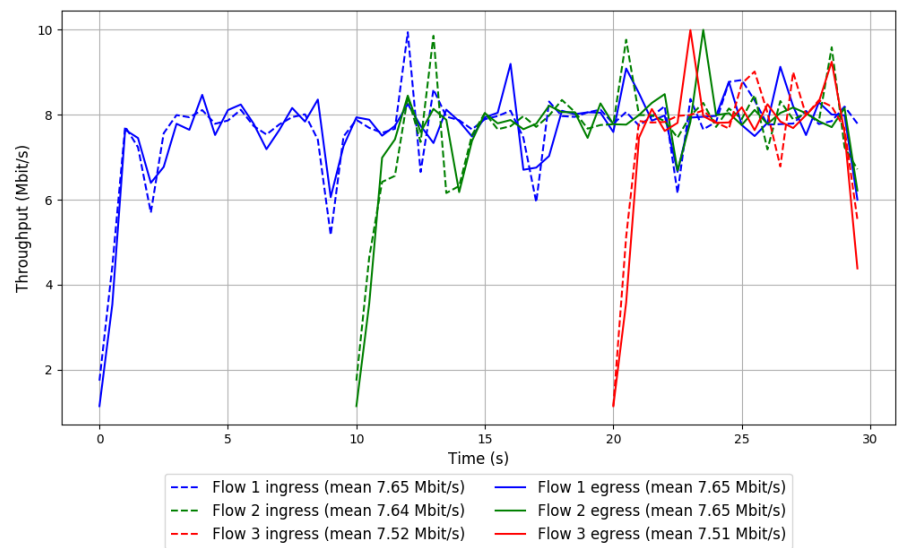
-- Flow 3:

Average throughput: 7.51 Mbit/s

95th percentile per-packet one-way delay: 54.490 ms

Loss rate: 1.50%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

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

End at: 2017-12-06 05:06:42

Below is generated by plot.py at 2017-12-06 08:13:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.18 Mbit/s

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

Loss rate: 0.56%

-- Flow 1:

Average throughput: 7.69 Mbit/s

95th percentile per-packet one-way delay: 54.358 ms

Loss rate: 0.51%

-- Flow 2:

Average throughput: 7.58 Mbit/s

95th percentile per-packet one-way delay: 54.497 ms

Loss rate: 0.34%

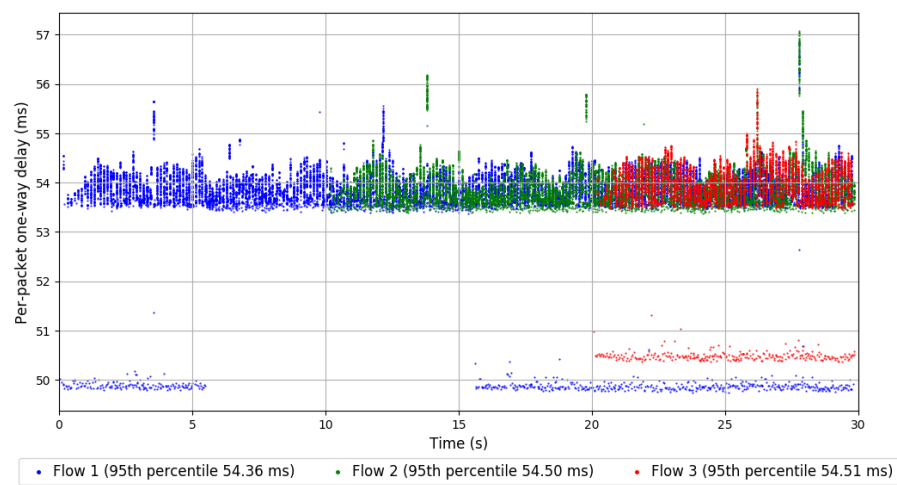
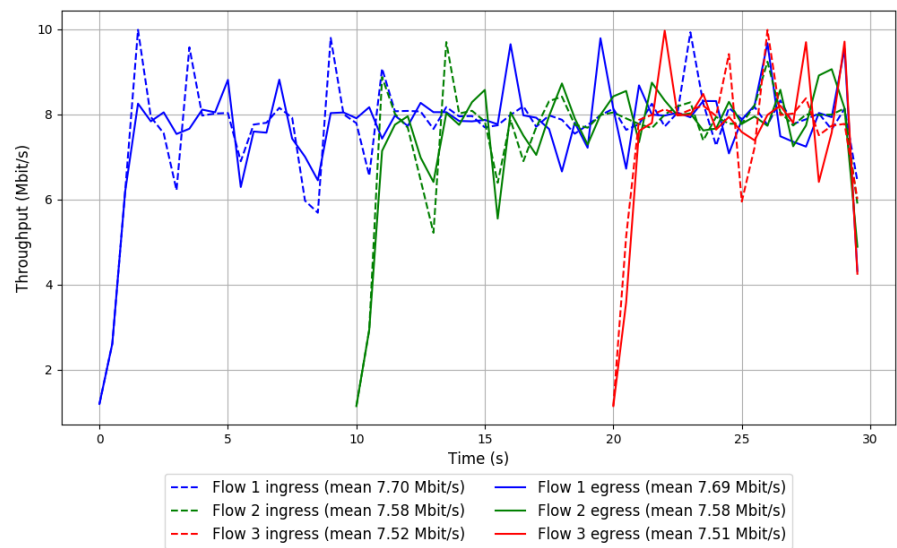
-- Flow 3:

Average throughput: 7.51 Mbit/s

95th percentile per-packet one-way delay: 54.512 ms

Loss rate: 1.18%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2017-12-06 05:18:13

End at: 2017-12-06 05:18:43

Below is generated by plot.py at 2017-12-06 08:13:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.32 Mbit/s

95th percentile per-packet one-way delay: 53.883 ms

Loss rate: 0.67%

-- Flow 1:

Average throughput: 7.85 Mbit/s

95th percentile per-packet one-way delay: 53.869 ms

Loss rate: 0.43%

-- Flow 2:

Average throughput: 7.58 Mbit/s

95th percentile per-packet one-way delay: 53.805 ms

Loss rate: 0.73%

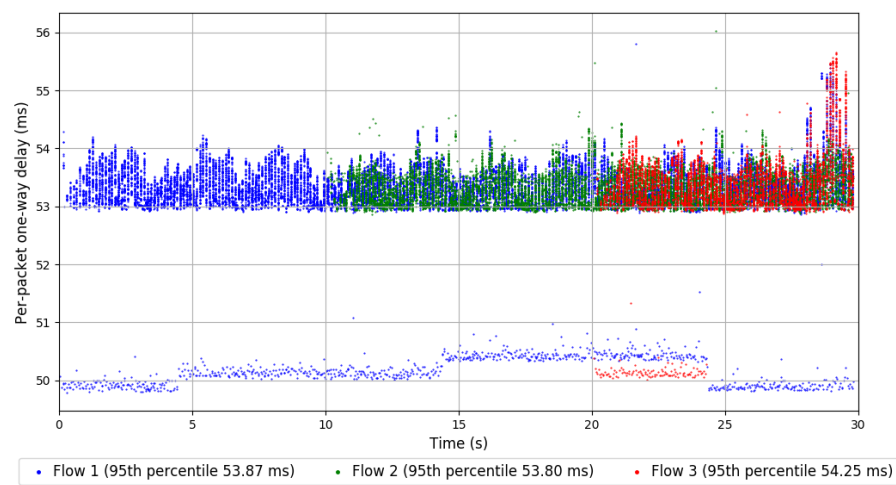
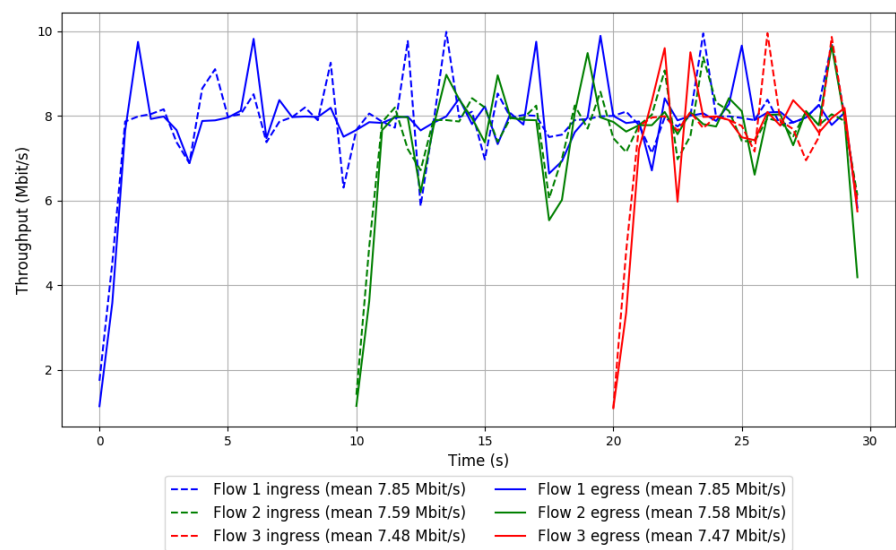
-- Flow 3:

Average throughput: 7.47 Mbit/s

95th percentile per-packet one-way delay: 54.247 ms

Loss rate: 1.35%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2017-12-06 05:30:30

End at: 2017-12-06 05:31:00

Below is generated by plot.py at 2017-12-06 08:13:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.23 Mbit/s

95th percentile per-packet one-way delay: 53.872 ms

Loss rate: 0.45%

-- Flow 1:

Average throughput: 7.71 Mbit/s

95th percentile per-packet one-way delay: 53.855 ms

Loss rate: 0.16%

-- Flow 2:

Average throughput: 7.63 Mbit/s

95th percentile per-packet one-way delay: 53.890 ms

Loss rate: 0.44%

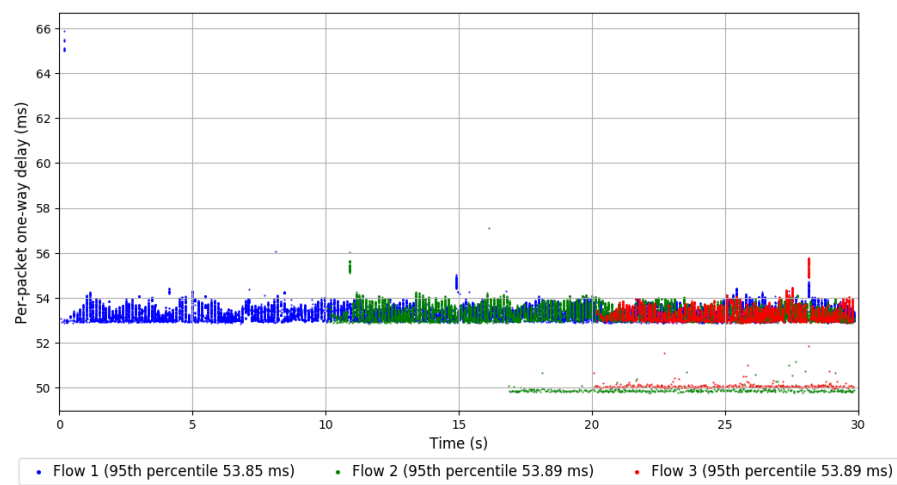
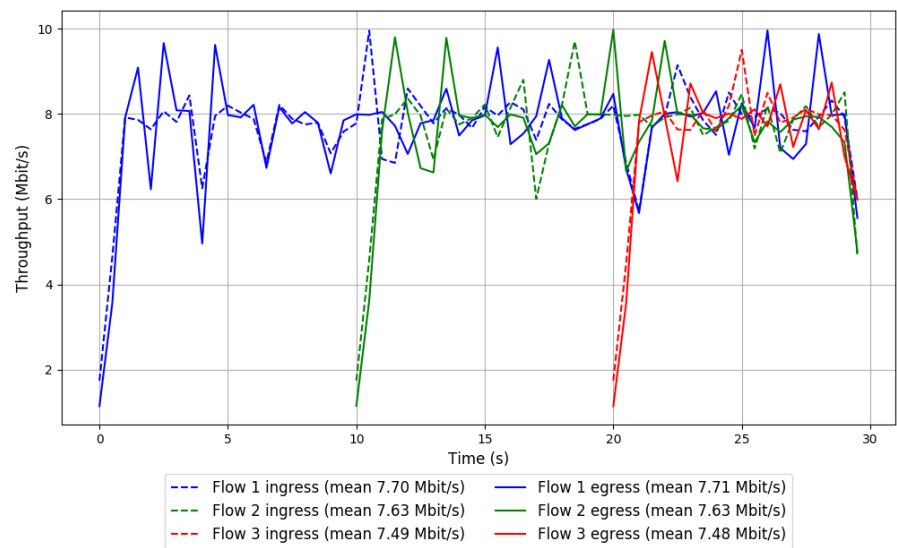
-- Flow 3:

Average throughput: 7.48 Mbit/s

95th percentile per-packet one-way delay: 53.890 ms

Loss rate: 1.35%

Run 10: Report of Sprout — Data Link

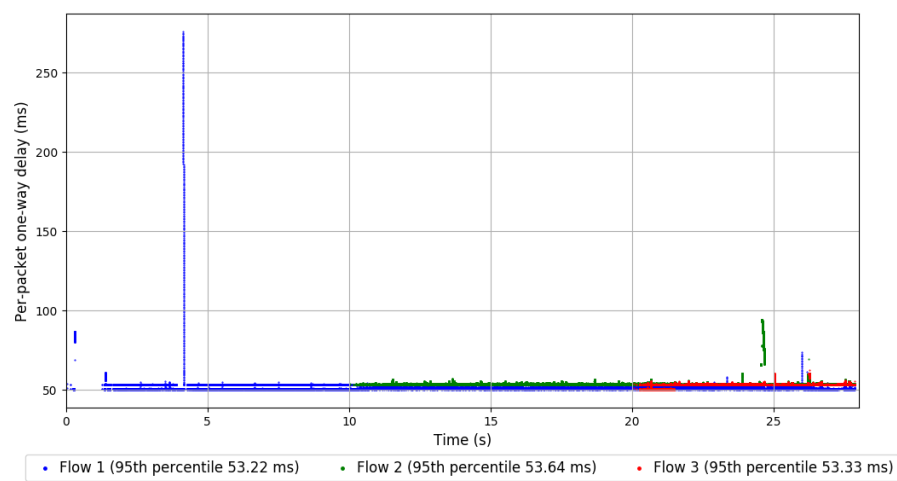
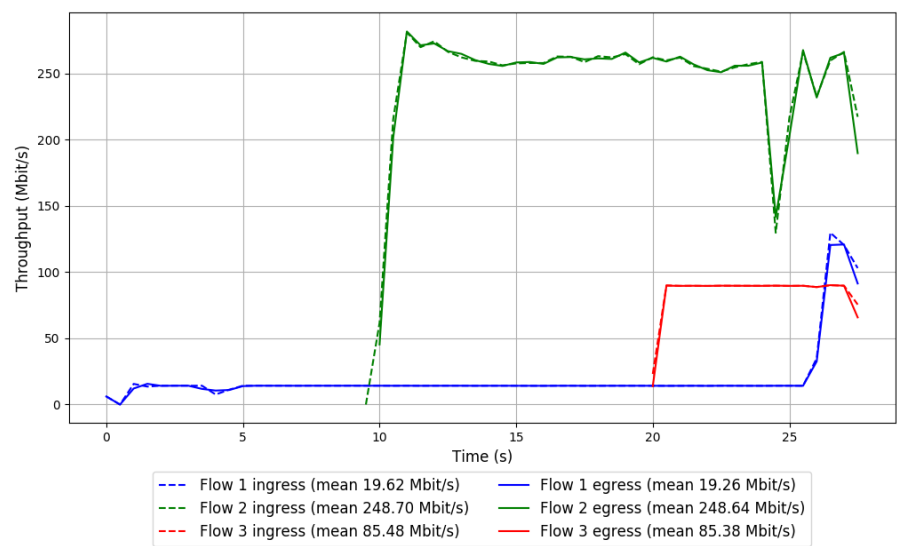


```
Run 1: Statistics of TaoVA-100x

Start at: 2017-12-06 03:29:04
End at: 2017-12-06 03:29:34

# Below is generated by plot.py at 2017-12-06 08:14:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 202.55 Mbit/s
95th percentile per-packet one-way delay: 53.623 ms
Loss rate: 0.88%
-- Flow 1:
Average throughput: 19.26 Mbit/s
95th percentile per-packet one-way delay: 53.217 ms
Loss rate: 2.23%
-- Flow 2:
Average throughput: 248.64 Mbit/s
95th percentile per-packet one-way delay: 53.641 ms
Loss rate: 0.63%
-- Flow 3:
Average throughput: 85.38 Mbit/s
95th percentile per-packet one-way delay: 53.333 ms
Loss rate: 1.42%
```


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

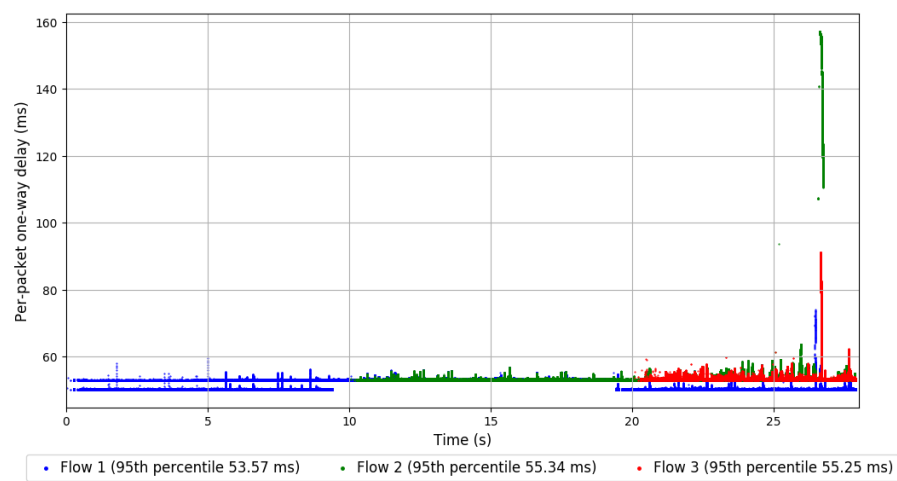
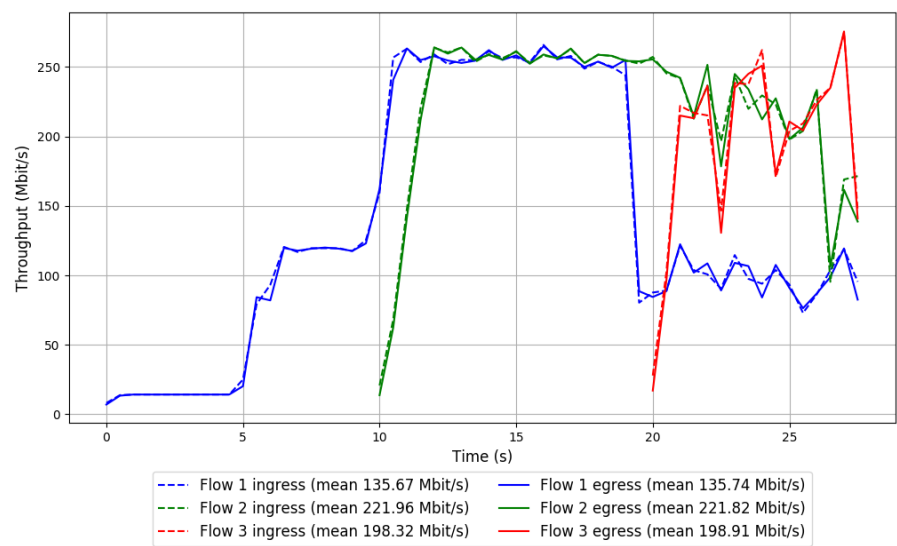


```
Run 2: Statistics of TaoVA-100x

Start at: 2017-12-06 03:41:26
End at: 2017-12-06 03:41:56

# Below is generated by plot.py at 2017-12-06 08:18:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 333.44 Mbit/s
95th percentile per-packet one-way delay: 54.699 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 135.74 Mbit/s
95th percentile per-packet one-way delay: 53.567 ms
Loss rate: 0.32%
-- Flow 2:
Average throughput: 221.82 Mbit/s
95th percentile per-packet one-way delay: 55.338 ms
Loss rate: 0.66%
-- Flow 3:
Average throughput: 198.91 Mbit/s
95th percentile per-packet one-way delay: 55.247 ms
Loss rate: 1.07%
```

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

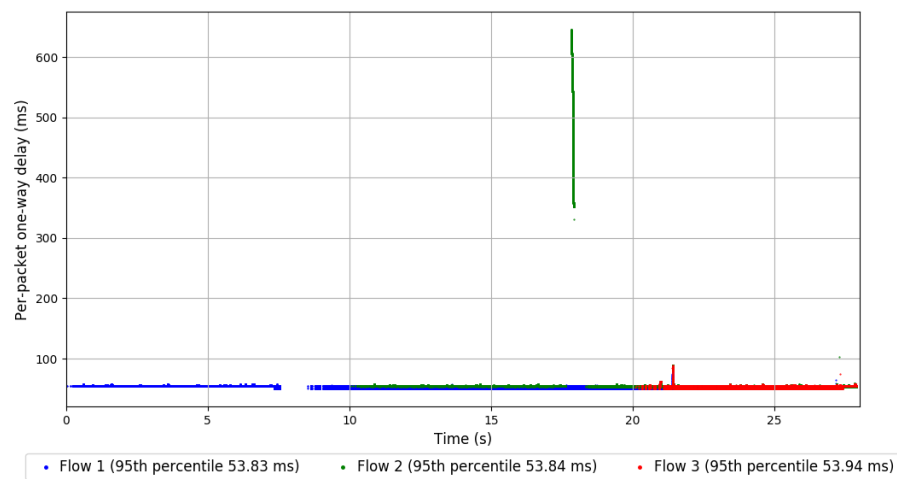
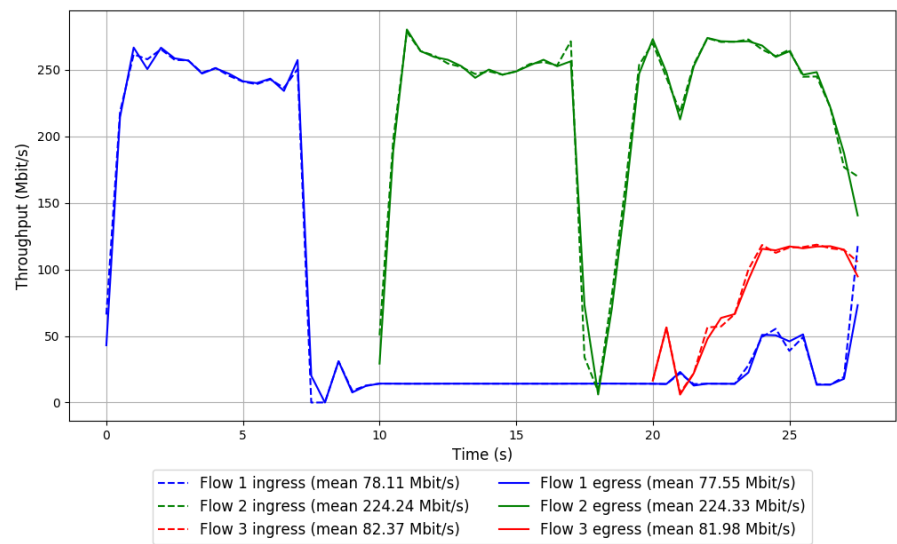


```
Run 3: Statistics of TaoVA-100x

Start at: 2017-12-06 03:53:48
End at: 2017-12-06 03:54:18

# Below is generated by plot.py at 2017-12-06 08:18:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 244.19 Mbit/s
95th percentile per-packet one-way delay: 53.838 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 77.55 Mbit/s
95th percentile per-packet one-way delay: 53.825 ms
Loss rate: 1.08%
-- Flow 2:
Average throughput: 224.33 Mbit/s
95th percentile per-packet one-way delay: 53.838 ms
Loss rate: 0.56%
-- Flow 3:
Average throughput: 81.98 Mbit/s
95th percentile per-packet one-way delay: 53.944 ms
Loss rate: 1.78%
```

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

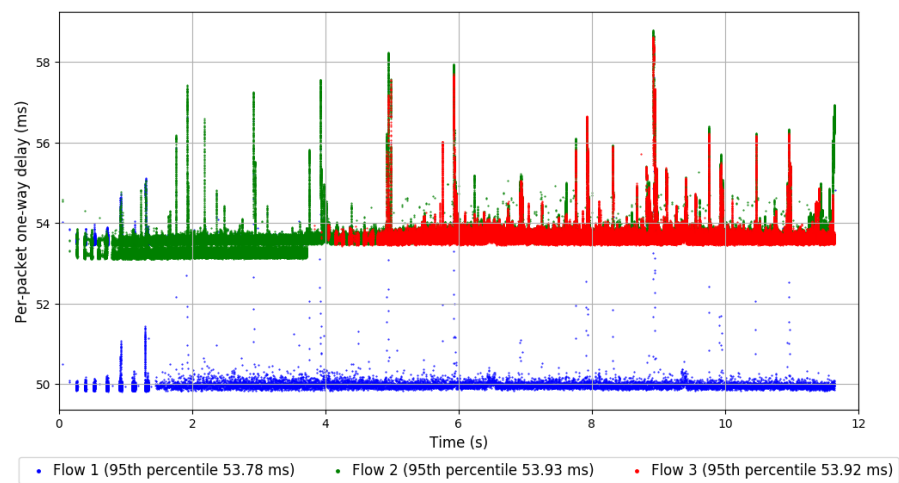
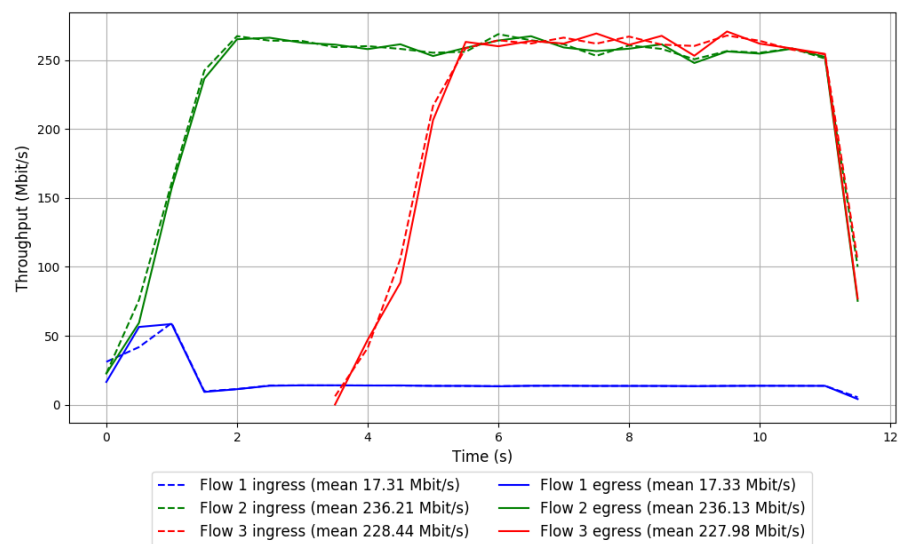


Run 4: Statistics of TaoVA-100x

Start at: 2017-12-06 04:05:55

End at: 2017-12-06 04:06:25

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

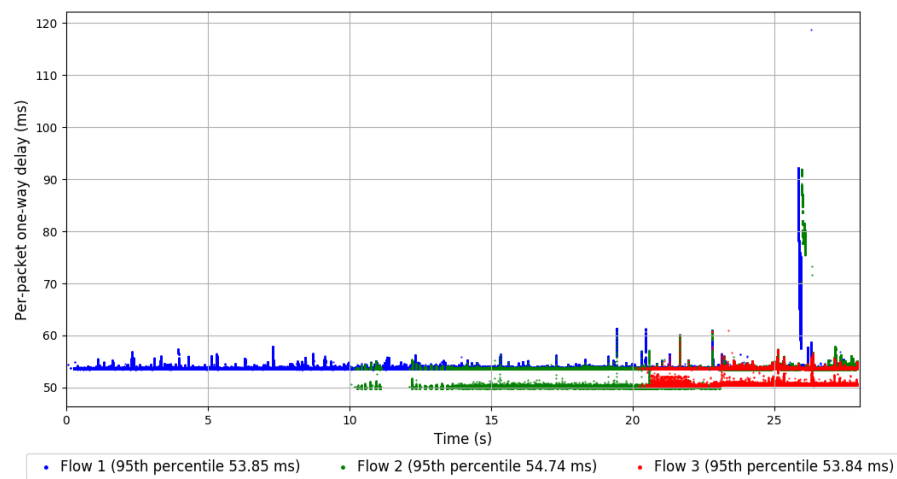
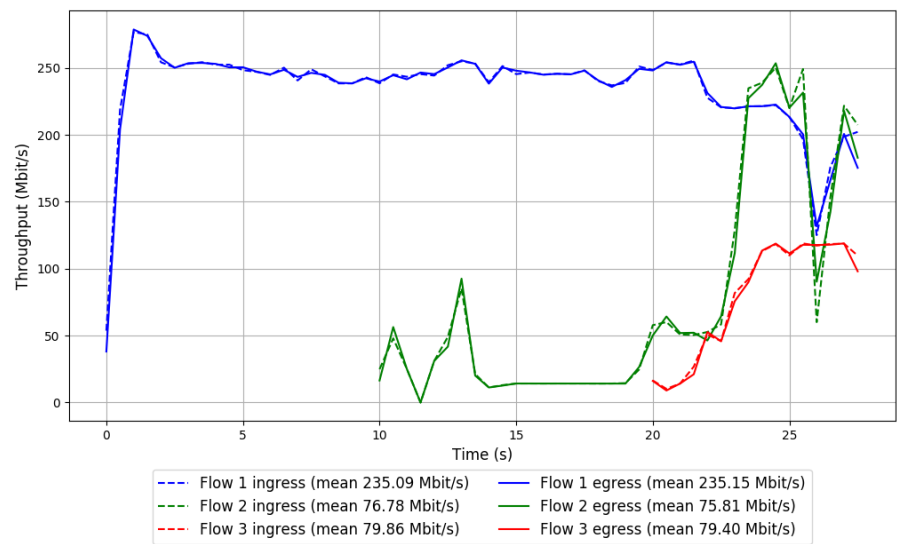


```
Run 5: Statistics of TaoVA-100x

Start at: 2017-12-06 04:18:12
End at: 2017-12-06 04:18:42

# Below is generated by plot.py at 2017-12-06 08:18:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 305.94 Mbit/s
95th percentile per-packet one-way delay: 53.930 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 235.15 Mbit/s
95th percentile per-packet one-way delay: 53.847 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 75.81 Mbit/s
95th percentile per-packet one-way delay: 54.736 ms
Loss rate: 1.83%
-- Flow 3:
Average throughput: 79.40 Mbit/s
95th percentile per-packet one-way delay: 53.838 ms
Loss rate: 1.93%
```


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



Run 6: Statistics of TaoVA-100x

Start at: 2017-12-06 04:30:19

End at: 2017-12-06 04:30:49

Below is generated by plot.py at 2017-12-06 08:18:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 302.77 Mbit/s

95th percentile per-packet one-way delay: 56.570 ms

Loss rate: 0.38%

-- Flow 1:

Average throughput: 240.08 Mbit/s

95th percentile per-packet one-way delay: 57.164 ms

Loss rate: 0.18%

-- Flow 2:

Average throughput: 77.75 Mbit/s

95th percentile per-packet one-way delay: 53.663 ms

Loss rate: 0.62%

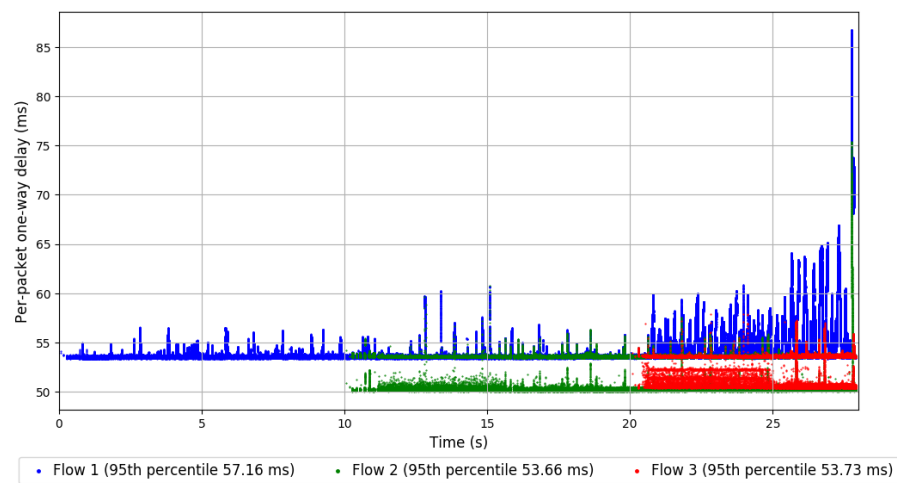
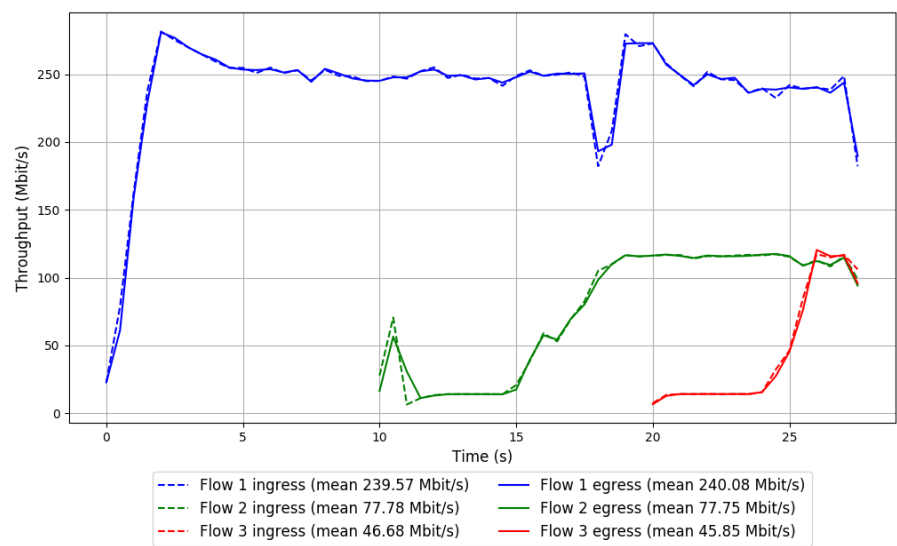
-- Flow 3:

Average throughput: 45.85 Mbit/s

95th percentile per-packet one-way delay: 53.727 ms

Loss rate: 3.08%

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

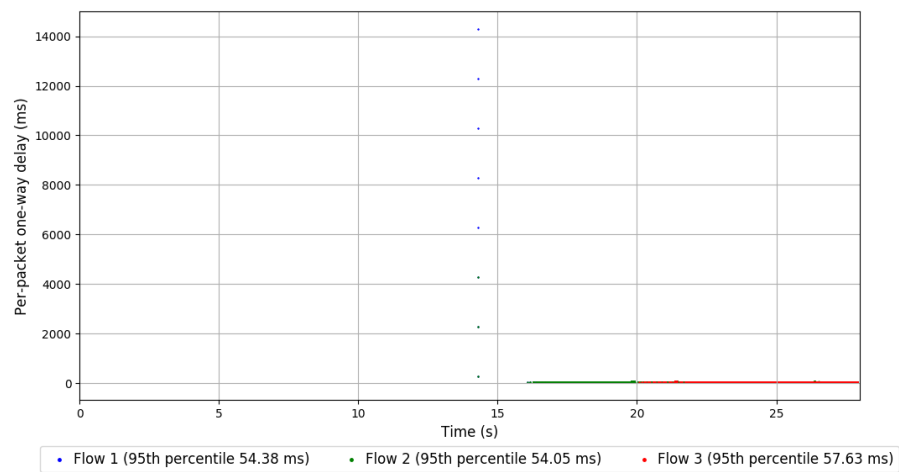
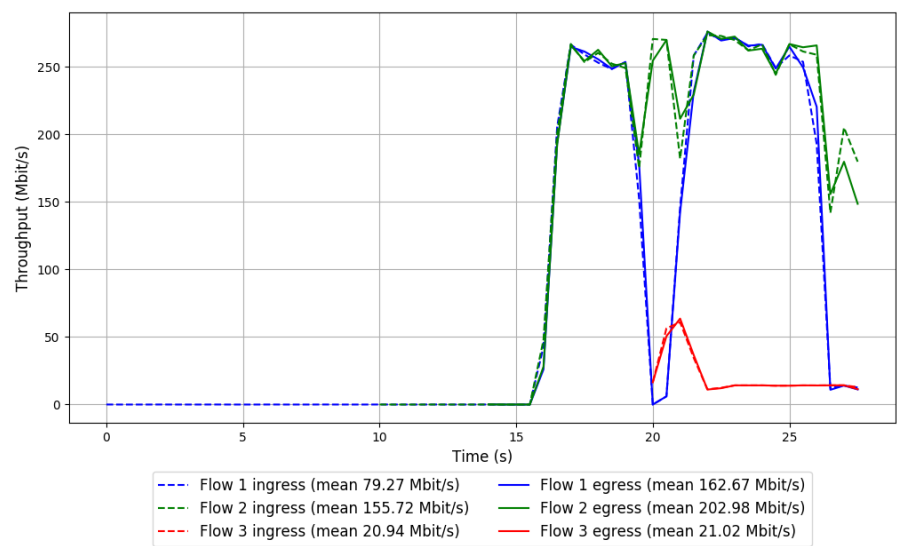


Run 7: Statistics of TaoVA-100x

Start at: 2017-12-06 04:42:39

End at: 2017-12-06 04:43:09

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



Run 8: Statistics of TaoVA-100x

Start at: 2017-12-06 04:54:47

End at: 2017-12-06 04:55:17

Below is generated by plot.py at 2017-12-06 08:22:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 289.35 Mbit/s

95th percentile per-packet one-way delay: 53.824 ms

Loss rate: 1.35%

-- Flow 1:

Average throughput: 234.26 Mbit/s

95th percentile per-packet one-way delay: 53.725 ms

Loss rate: 1.25%

-- Flow 2:

Average throughput: 13.21 Mbit/s

95th percentile per-packet one-way delay: 53.669 ms

Loss rate: 1.45%

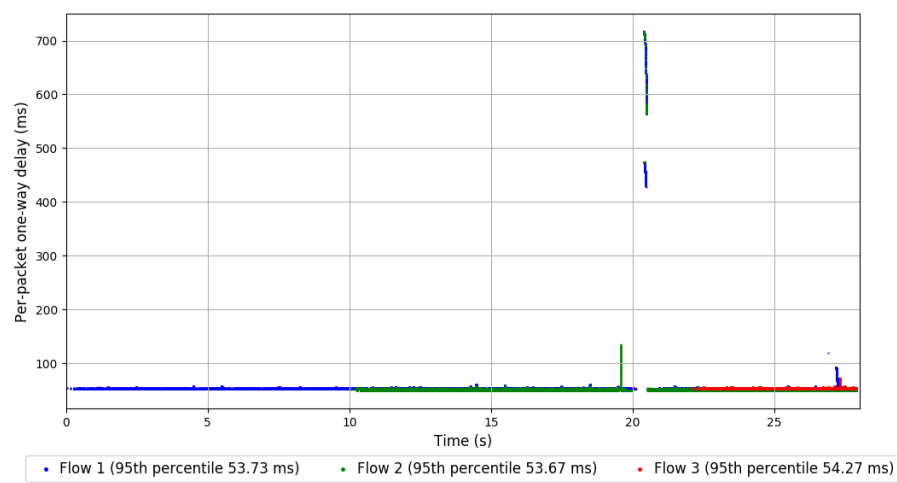
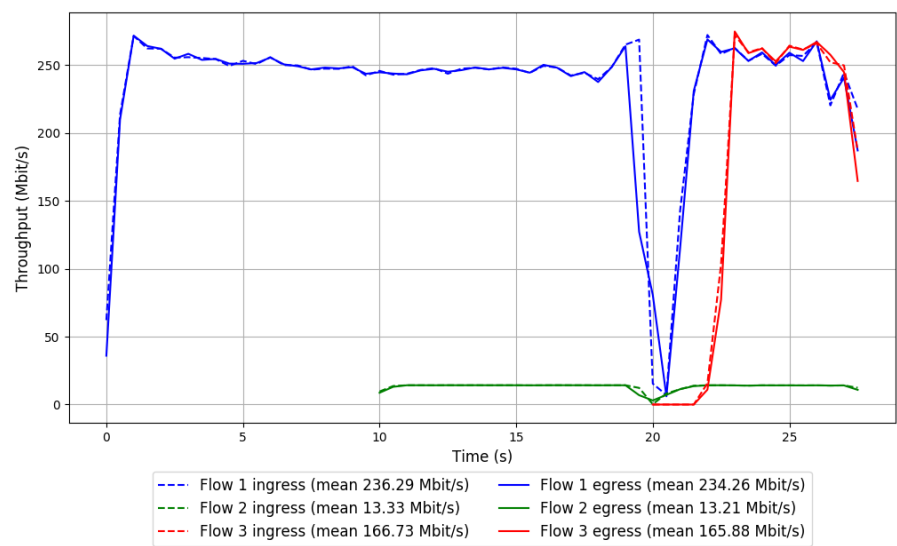
-- Flow 3:

Average throughput: 165.88 Mbit/s

95th percentile per-packet one-way delay: 54.272 ms

Loss rate: 1.87%

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

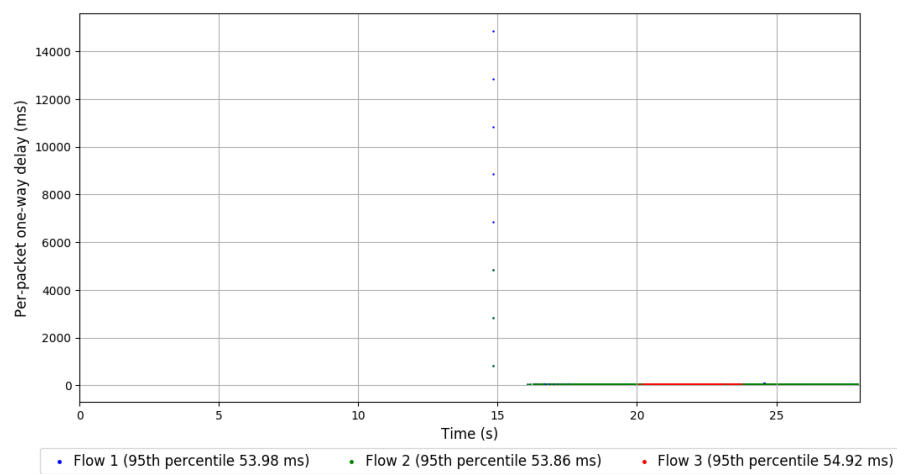
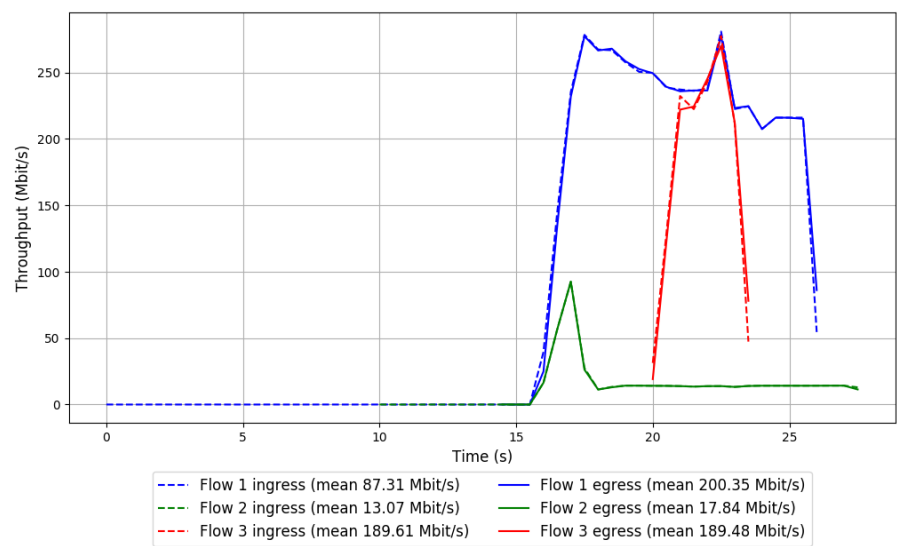


Run 9: Statistics of TaoVA-100x

Start at: 2017-12-06 05:06:53

End at: 2017-12-06 05:07:23

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

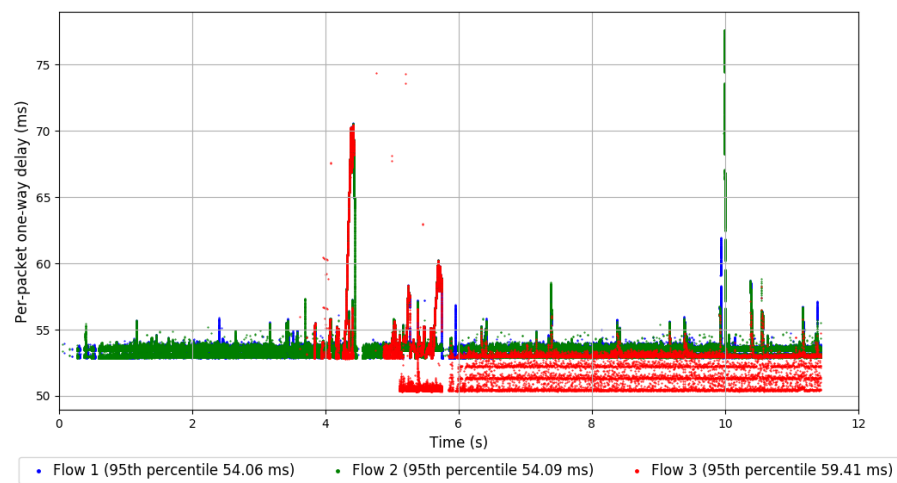
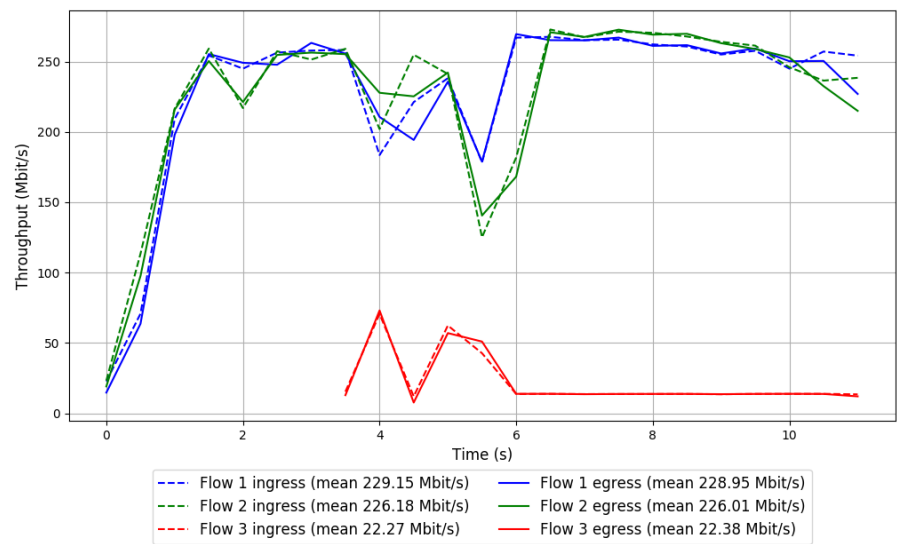


Run 10: Statistics of TaoVA-100x

Start at: 2017-12-06 05:18:54

End at: 2017-12-06 05:19:24

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



Run 1: Statistics of TCP Vegas

Start at: 2017-12-06 03:37:58

End at: 2017-12-06 03:38:28

Below is generated by plot.py at 2017-12-06 08:22:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 208.95 Mbit/s

95th percentile per-packet one-way delay: 53.799 ms

Loss rate: 0.36%

-- Flow 1:

Average throughput: 201.36 Mbit/s

95th percentile per-packet one-way delay: 53.797 ms

Loss rate: 0.34%

-- Flow 2:

Average throughput: 8.69 Mbit/s

95th percentile per-packet one-way delay: 53.880 ms

Loss rate: 0.54%

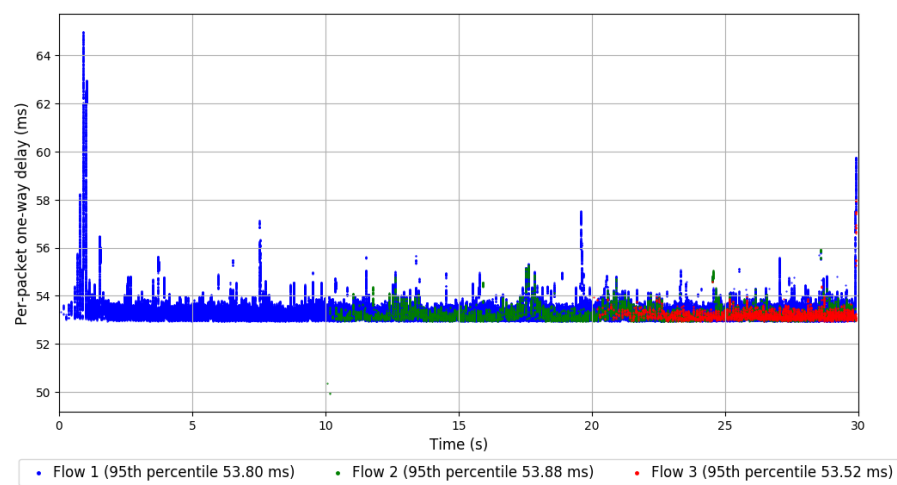
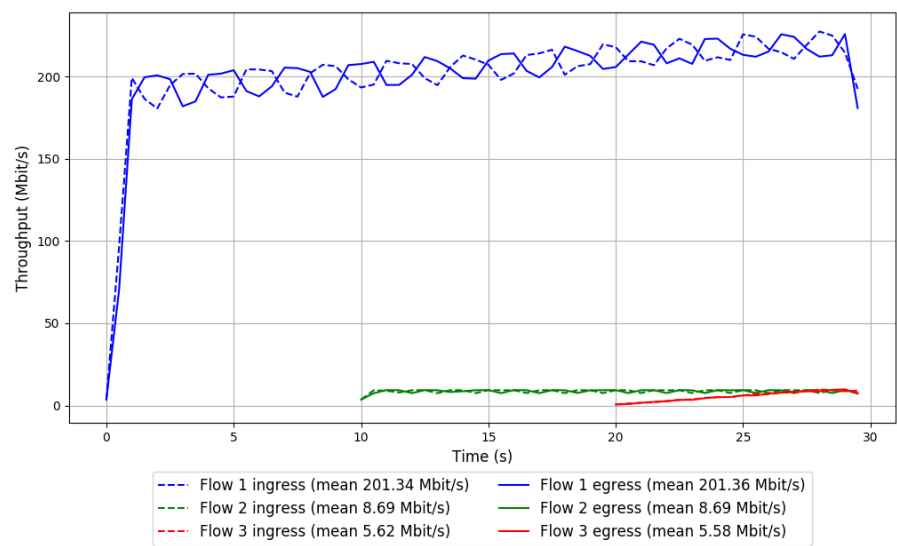
-- Flow 3:

Average throughput: 5.58 Mbit/s

95th percentile per-packet one-way delay: 53.520 ms

Loss rate: 1.91%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2017-12-06 03:50:28

End at: 2017-12-06 03:50:58

Below is generated by plot.py at 2017-12-06 08:22:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 66.22 Mbit/s

95th percentile per-packet one-way delay: 54.488 ms

Loss rate: 0.63%

-- Flow 1:

Average throughput: 7.77 Mbit/s

95th percentile per-packet one-way delay: 54.018 ms

Loss rate: 0.35%

-- Flow 2:

Average throughput: 79.58 Mbit/s

95th percentile per-packet one-way delay: 54.516 ms

Loss rate: 0.61%

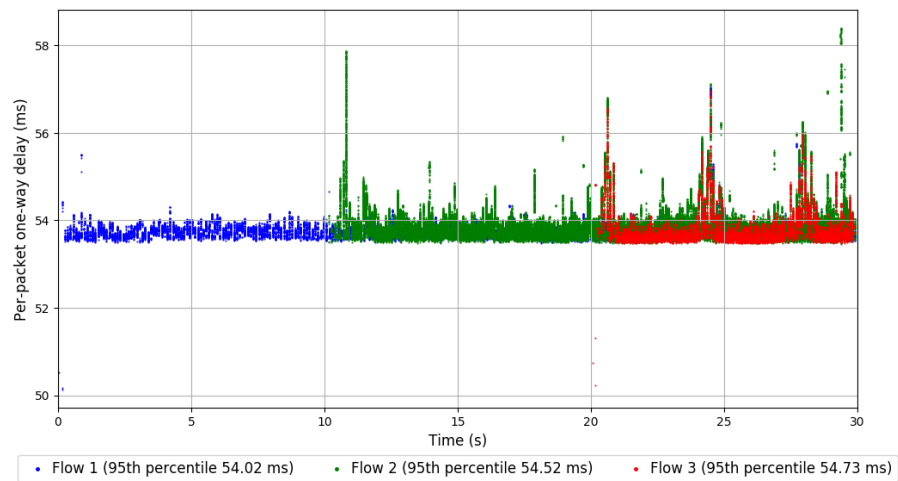
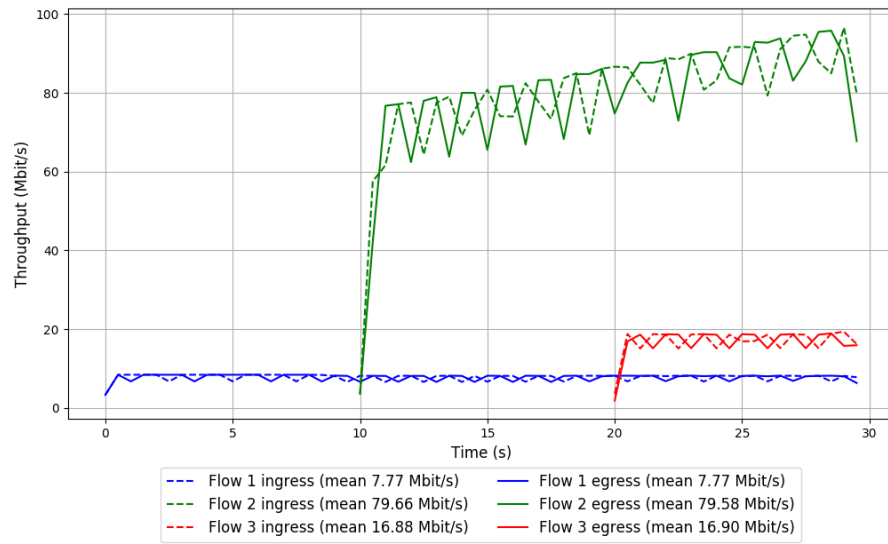
-- Flow 3:

Average throughput: 16.90 Mbit/s

95th percentile per-packet one-way delay: 54.733 ms

Loss rate: 1.21%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2017-12-06 04:02:38

End at: 2017-12-06 04:03:08

Below is generated by plot.py at 2017-12-06 08:22:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 66.87 Mbit/s

95th percentile per-packet one-way delay: 54.394 ms

Loss rate: 0.56%

-- Flow 1:

Average throughput: 13.62 Mbit/s

95th percentile per-packet one-way delay: 54.183 ms

Loss rate: 0.40%

-- Flow 2:

Average throughput: 77.50 Mbit/s

95th percentile per-packet one-way delay: 54.480 ms

Loss rate: 0.54%

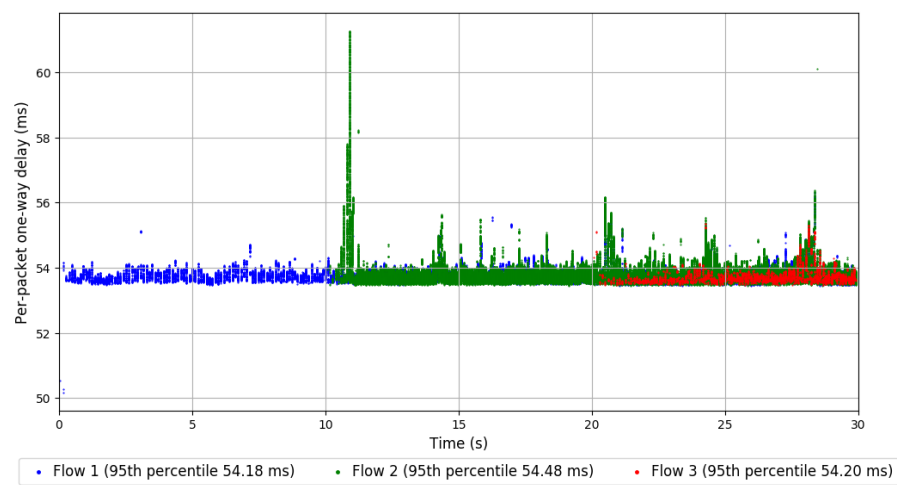
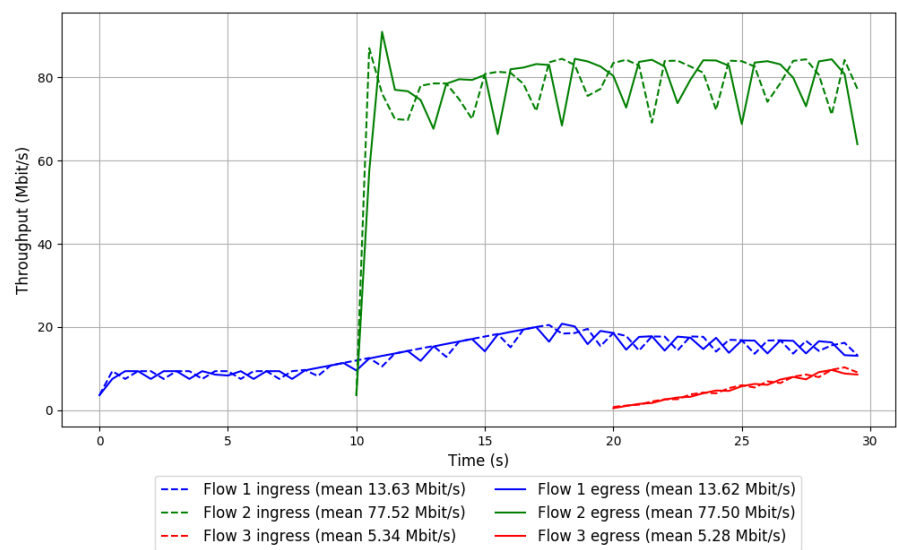
-- Flow 3:

Average throughput: 5.28 Mbit/s

95th percentile per-packet one-way delay: 54.204 ms

Loss rate: 2.24%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2017-12-06 04:14:50

End at: 2017-12-06 04:15:20

Below is generated by plot.py at 2017-12-06 08:22:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 105.73 Mbit/s

95th percentile per-packet one-way delay: 54.654 ms

Loss rate: 0.48%

-- Flow 1:

Average throughput: 50.09 Mbit/s

95th percentile per-packet one-way delay: 54.439 ms

Loss rate: 0.37%

-- Flow 2:

Average throughput: 79.40 Mbit/s

95th percentile per-packet one-way delay: 54.980 ms

Loss rate: 0.56%

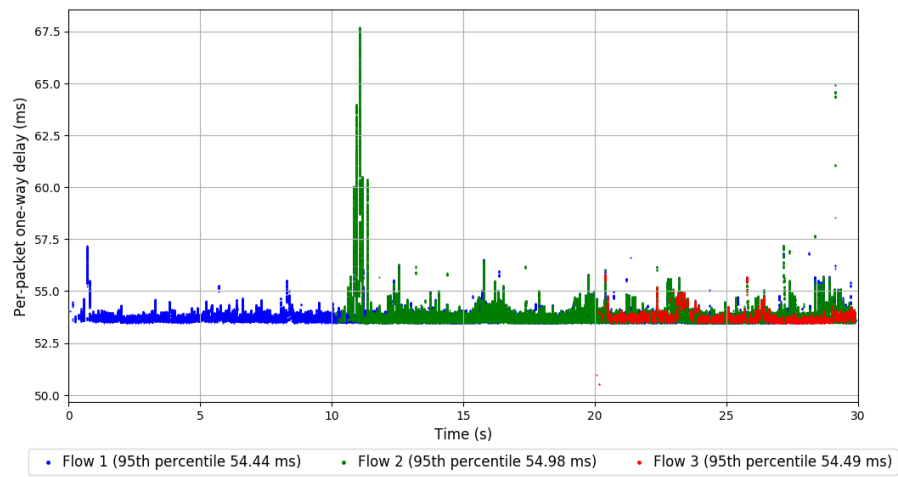
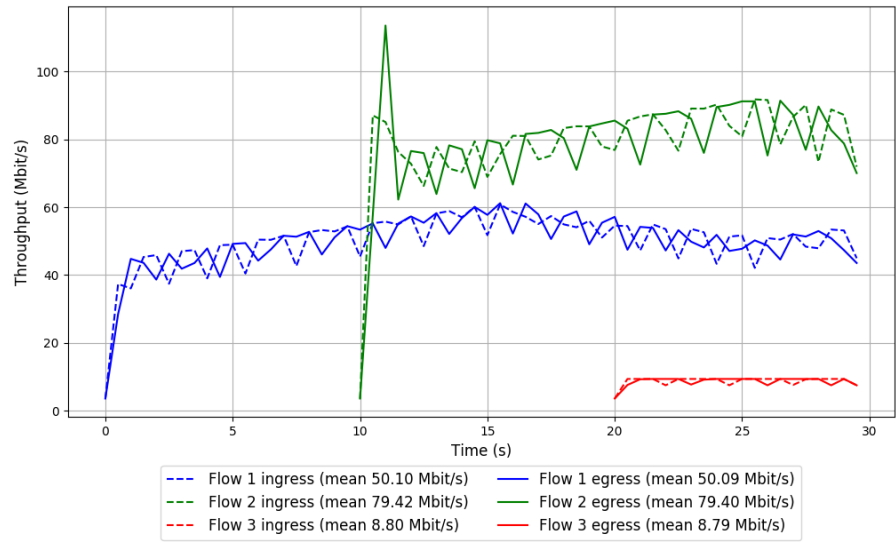
-- Flow 3:

Average throughput: 8.79 Mbit/s

95th percentile per-packet one-way delay: 54.486 ms

Loss rate: 1.08%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2017-12-06 04:27:05

End at: 2017-12-06 04:27:35

Below is generated by plot.py at 2017-12-06 08:22:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.25 Mbit/s

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

Loss rate: 0.59%

-- Flow 1:

Average throughput: 7.33 Mbit/s

95th percentile per-packet one-way delay: 53.930 ms

Loss rate: 0.36%

-- Flow 2:

Average throughput: 7.67 Mbit/s

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

Loss rate: 0.64%

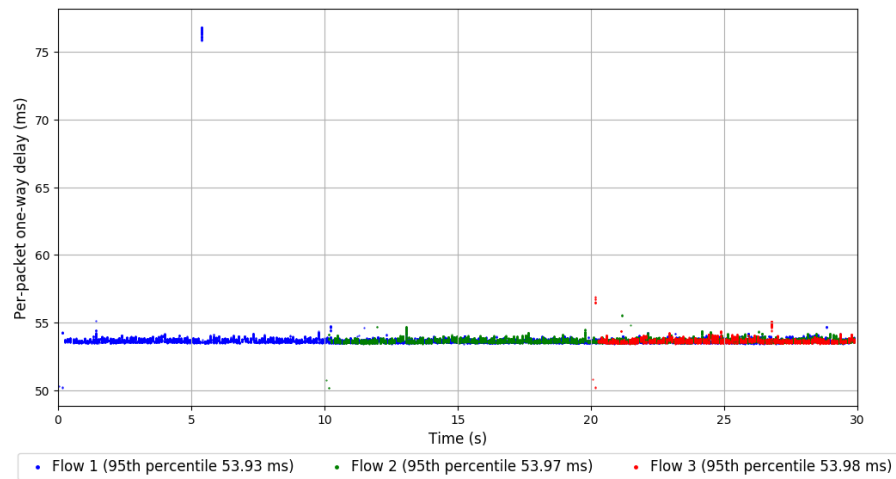
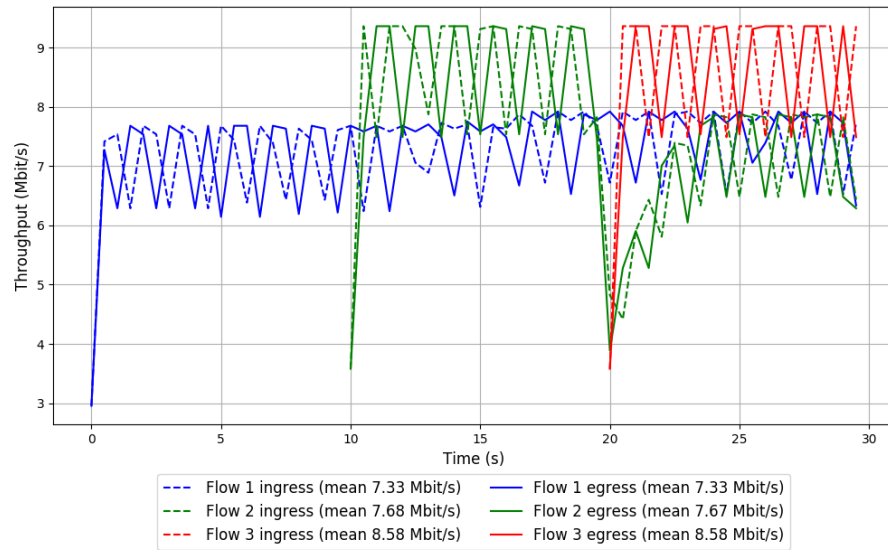
-- Flow 3:

Average throughput: 8.58 Mbit/s

95th percentile per-packet one-way delay: 53.984 ms

Loss rate: 1.10%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2017-12-06 04:39:18

End at: 2017-12-06 04:39:48

Below is generated by plot.py at 2017-12-06 08:22:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 82.96 Mbit/s

95th percentile per-packet one-way delay: 54.346 ms

Loss rate: 0.48%

-- Flow 1:

Average throughput: 76.23 Mbit/s

95th percentile per-packet one-way delay: 54.369 ms

Loss rate: 0.44%

-- Flow 2:

Average throughput: 7.97 Mbit/s

95th percentile per-packet one-way delay: 54.025 ms

Loss rate: 0.75%

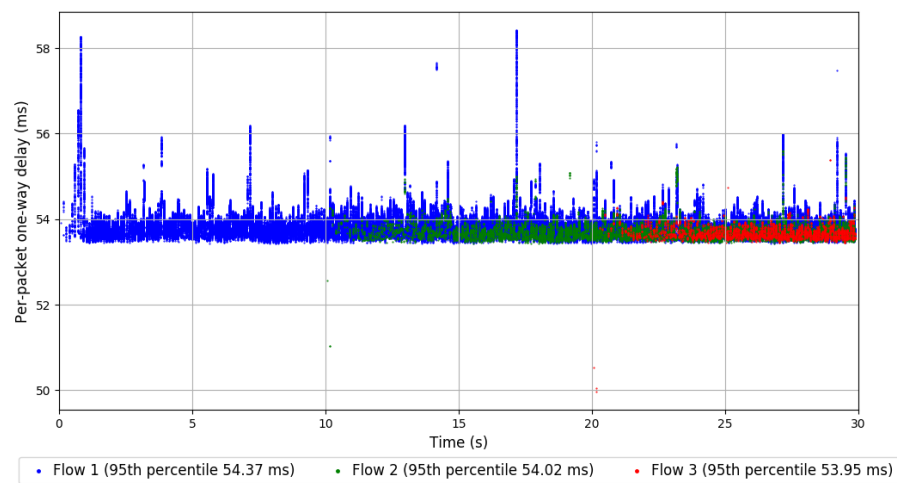
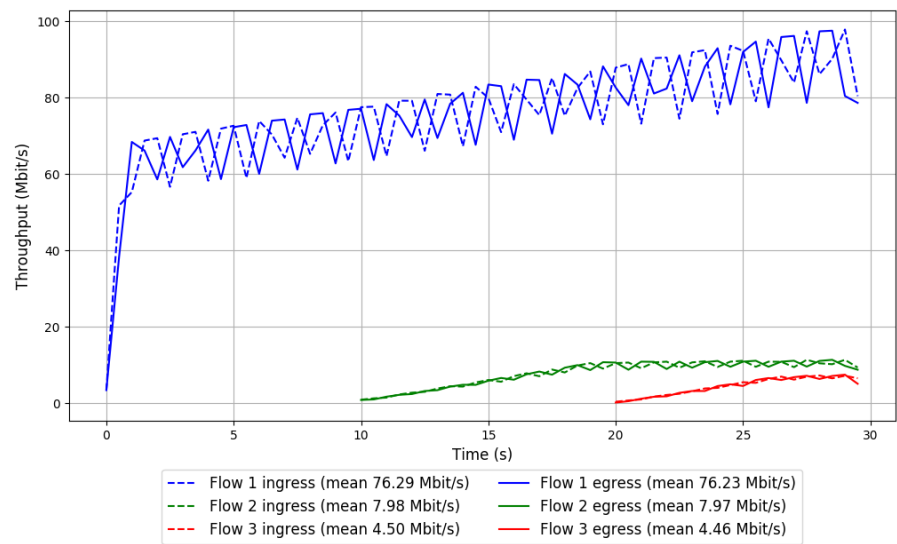
-- Flow 3:

Average throughput: 4.46 Mbit/s

95th percentile per-packet one-way delay: 53.954 ms

Loss rate: 1.96%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2017-12-06 04:51:29

End at: 2017-12-06 04:51:59

Below is generated by plot.py at 2017-12-06 08:22:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.01 Mbit/s

95th percentile per-packet one-way delay: 54.444 ms

Loss rate: 0.58%

-- Flow 1:

Average throughput: 60.14 Mbit/s

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

Loss rate: 0.39%

-- Flow 2:

Average throughput: 10.90 Mbit/s

95th percentile per-packet one-way delay: 54.289 ms

Loss rate: 0.83%

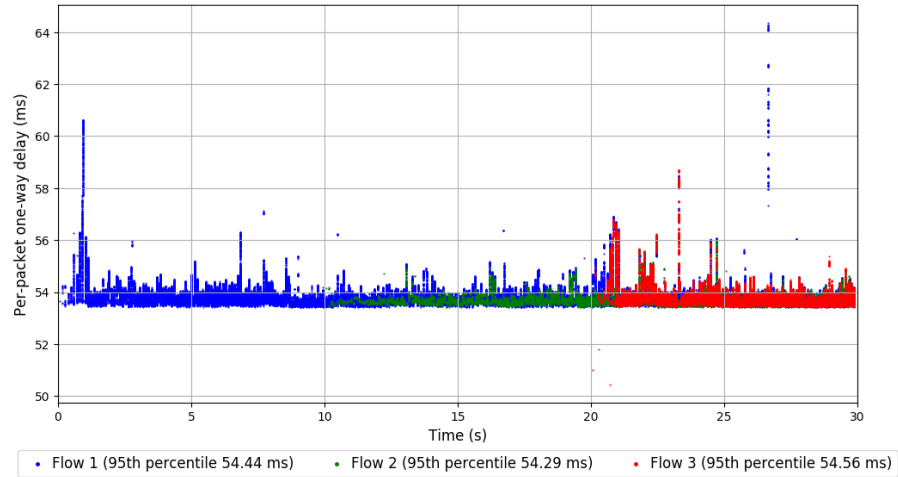
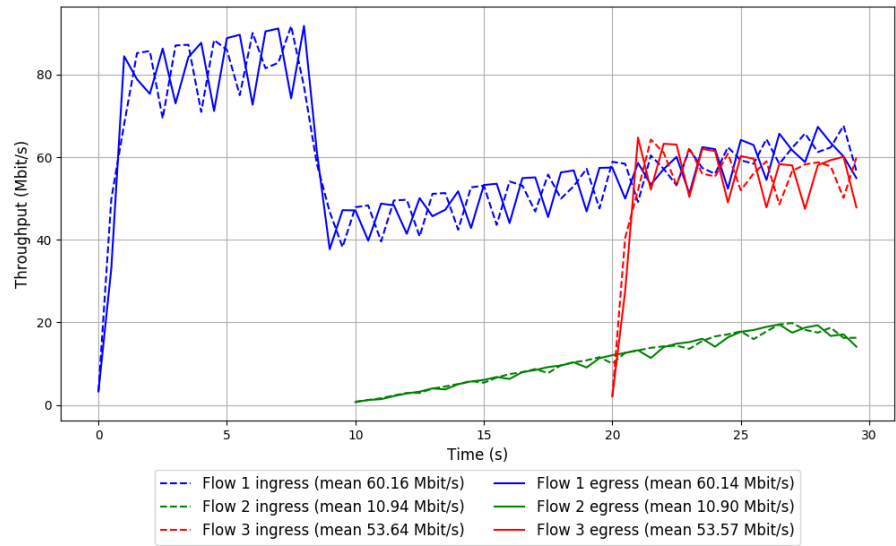
-- Flow 3:

Average throughput: 53.57 Mbit/s

95th percentile per-packet one-way delay: 54.565 ms

Loss rate: 1.14%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2017-12-06 05:03:34

End at: 2017-12-06 05:04:04

Below is generated by plot.py at 2017-12-06 08:22:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.34 Mbit/s

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

Loss rate: 0.59%

-- Flow 1:

Average throughput: 8.63 Mbit/s

95th percentile per-packet one-way delay: 53.927 ms

Loss rate: 0.36%

-- Flow 2:

Average throughput: 127.76 Mbit/s

95th percentile per-packet one-way delay: 54.657 ms

Loss rate: 0.60%

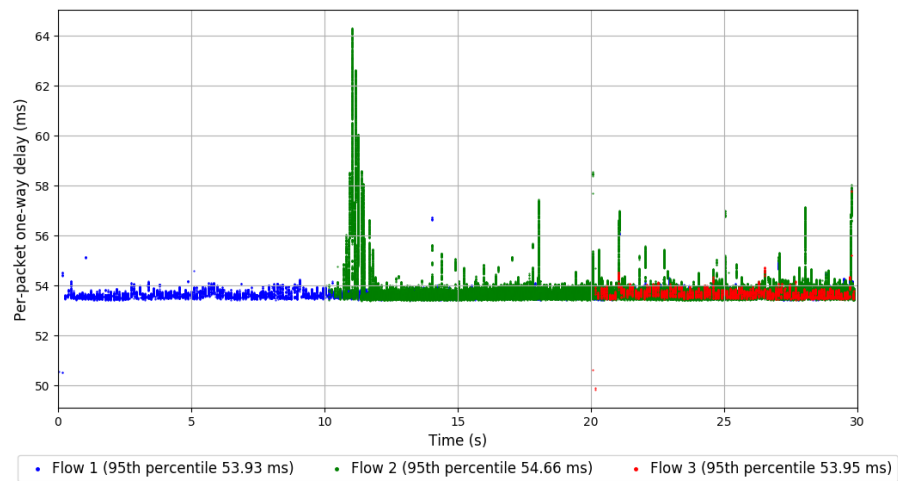
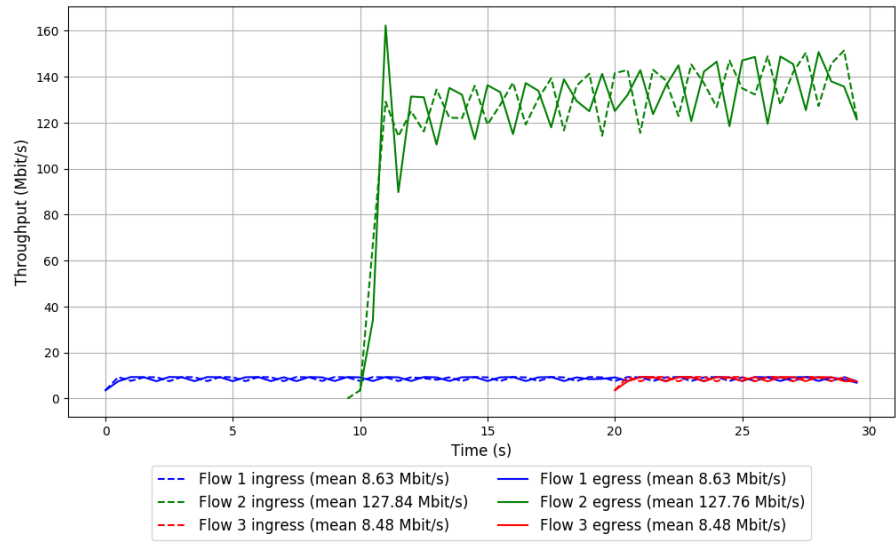
-- Flow 3:

Average throughput: 8.48 Mbit/s

95th percentile per-packet one-way delay: 53.955 ms

Loss rate: 1.11%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2017-12-06 05:15:37

End at: 2017-12-06 05:16:07

Below is generated by plot.py at 2017-12-06 08:22:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 20.77 Mbit/s

95th percentile per-packet one-way delay: 53.429 ms

Loss rate: 0.55%

-- Flow 1:

Average throughput: 11.33 Mbit/s

95th percentile per-packet one-way delay: 53.465 ms

Loss rate: 0.36%

-- Flow 2:

Average throughput: 9.42 Mbit/s

95th percentile per-packet one-way delay: 53.358 ms

Loss rate: 0.58%

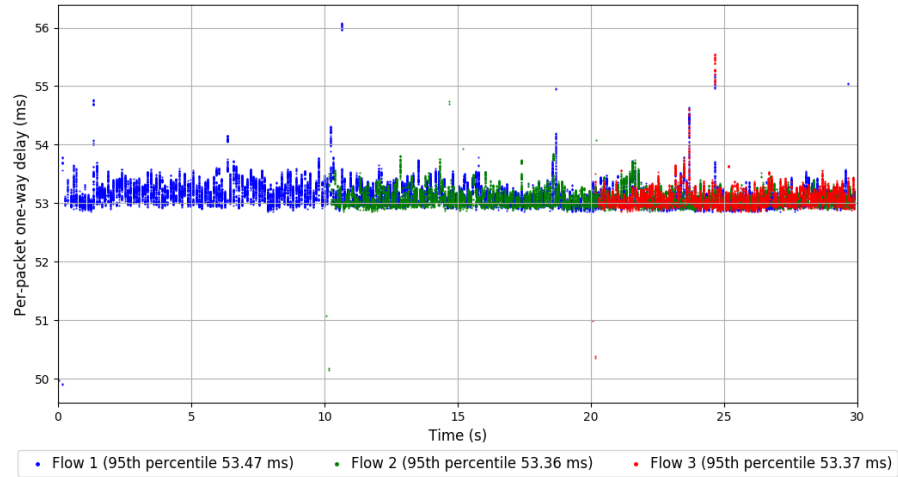
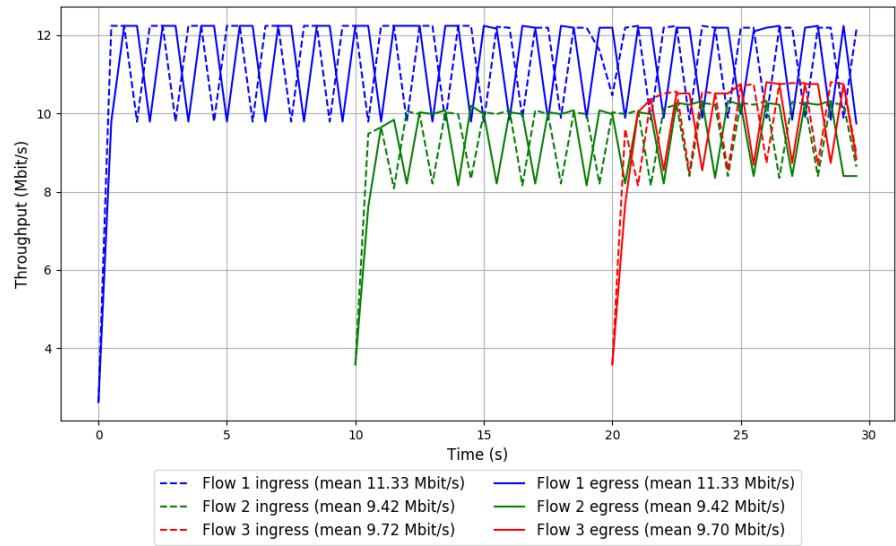
-- Flow 3:

Average throughput: 9.70 Mbit/s

95th percentile per-packet one-way delay: 53.373 ms

Loss rate: 1.17%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2017-12-06 05:27:46

End at: 2017-12-06 05:28:16

Below is generated by plot.py at 2017-12-06 08:22:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 171.95 Mbit/s

95th percentile per-packet one-way delay: 54.052 ms

Loss rate: 0.43%

-- Flow 1:

Average throughput: 155.19 Mbit/s

95th percentile per-packet one-way delay: 54.004 ms

Loss rate: 0.36%

-- Flow 2:

Average throughput: 8.87 Mbit/s

95th percentile per-packet one-way delay: 54.184 ms

Loss rate: 0.53%

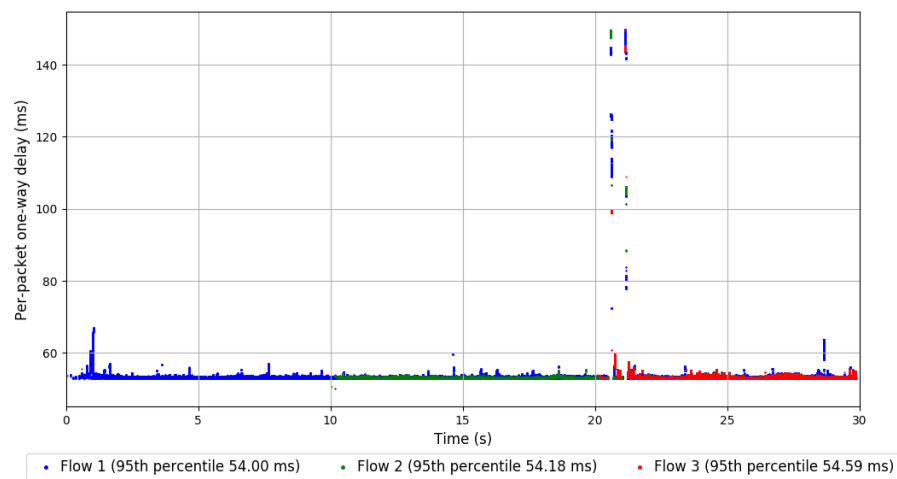
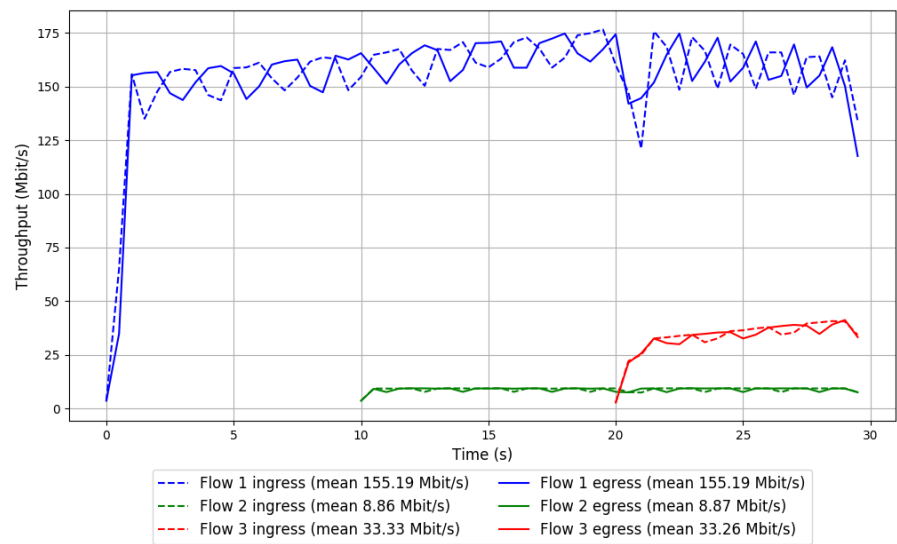
-- Flow 3:

Average throughput: 33.26 Mbit/s

95th percentile per-packet one-way delay: 54.592 ms

Loss rate: 1.28%

Run 10: Report of TCP Vegas — Data Link

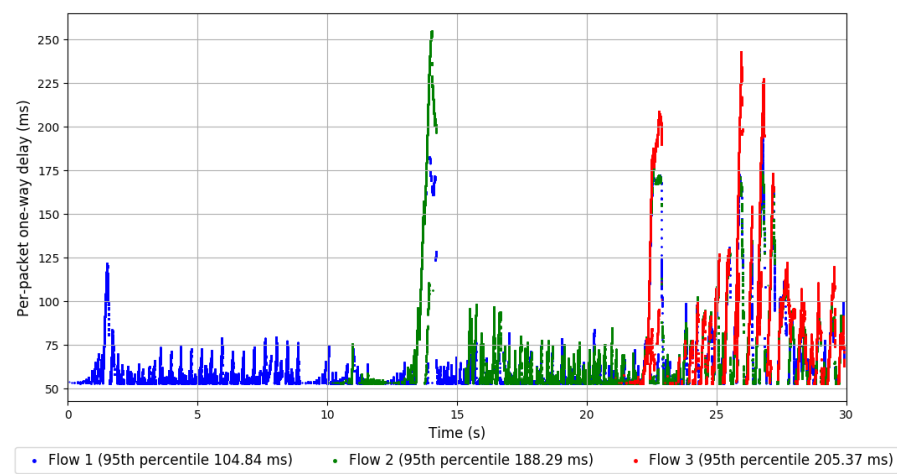
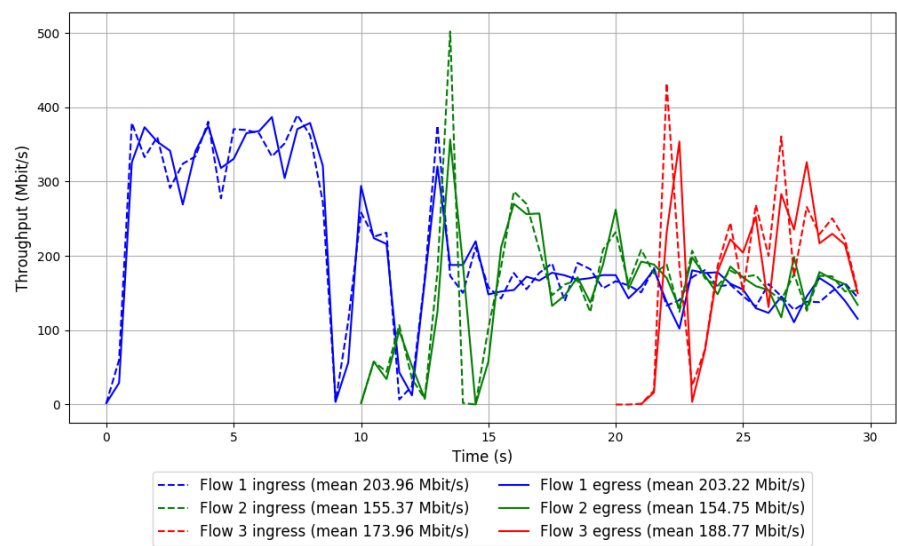


```
Run 1: Statistics of Verus

Start at: 2017-12-06 03:34:19
End at: 2017-12-06 03:34:49

# Below is generated by plot.py at 2017-12-06 08:25:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 361.56 Mbit/s
95th percentile per-packet one-way delay: 169.308 ms
Loss rate: 1.27%
-- Flow 1:
Average throughput: 203.22 Mbit/s
95th percentile per-packet one-way delay: 104.843 ms
Loss rate: 0.72%
-- Flow 2:
Average throughput: 154.75 Mbit/s
95th percentile per-packet one-way delay: 188.292 ms
Loss rate: 1.13%
-- Flow 3:
Average throughput: 188.77 Mbit/s
95th percentile per-packet one-way delay: 205.373 ms
Loss rate: 3.44%
```


Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2017-12-06 03:46:54

End at: 2017-12-06 03:47:24

Below is generated by plot.py at 2017-12-06 08:25:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 336.84 Mbit/s

95th percentile per-packet one-way delay: 111.338 ms

Loss rate: 0.29%

-- Flow 1:

Average throughput: 222.26 Mbit/s

95th percentile per-packet one-way delay: 118.414 ms

Loss rate: 0.16%

-- Flow 2:

Average throughput: 124.26 Mbit/s

95th percentile per-packet one-way delay: 98.406 ms

Loss rate: 0.17%

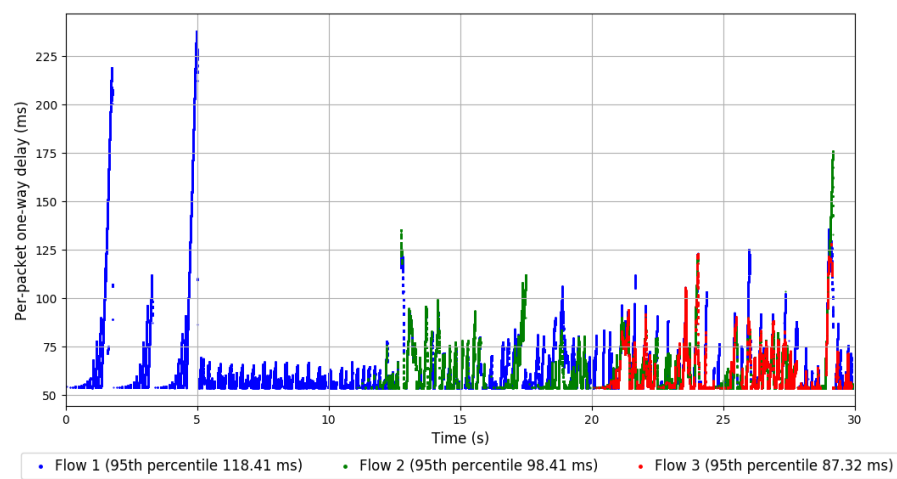
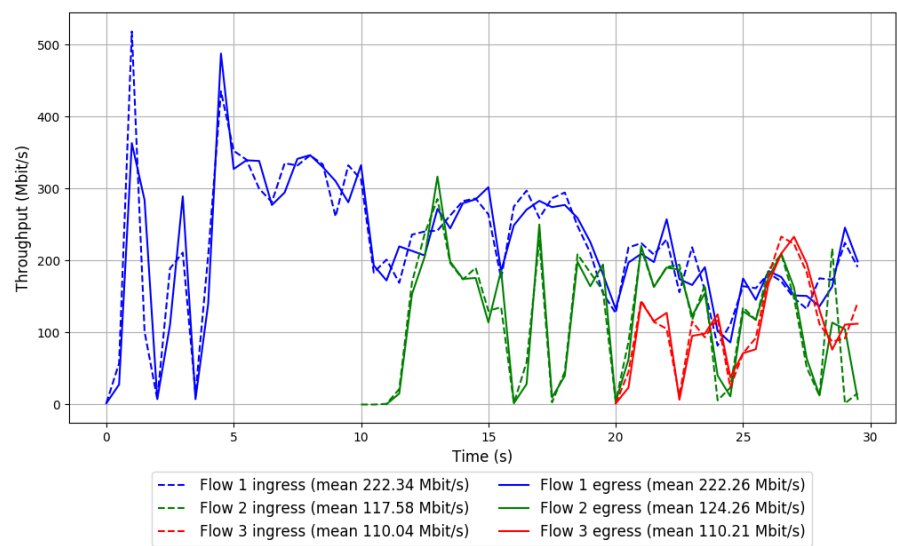
-- Flow 3:

Average throughput: 110.21 Mbit/s

95th percentile per-packet one-way delay: 87.322 ms

Loss rate: 1.33%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2017-12-06 03:59:04

End at: 2017-12-06 03:59:34

Below is generated by plot.py at 2017-12-06 08:25:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 372.62 Mbit/s

95th percentile per-packet one-way delay: 124.295 ms

Loss rate: 0.74%

-- Flow 1:

Average throughput: 221.94 Mbit/s

95th percentile per-packet one-way delay: 126.295 ms

Loss rate: 0.43%

-- Flow 2:

Average throughput: 168.61 Mbit/s

95th percentile per-packet one-way delay: 111.843 ms

Loss rate: 0.93%

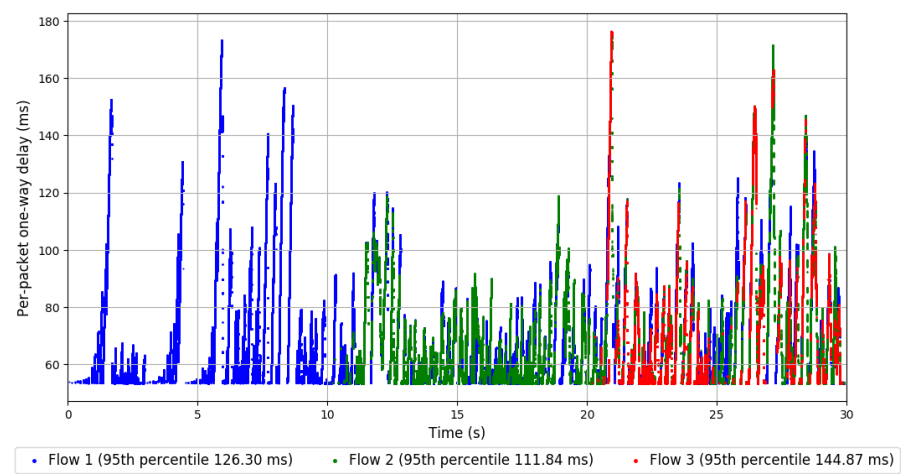
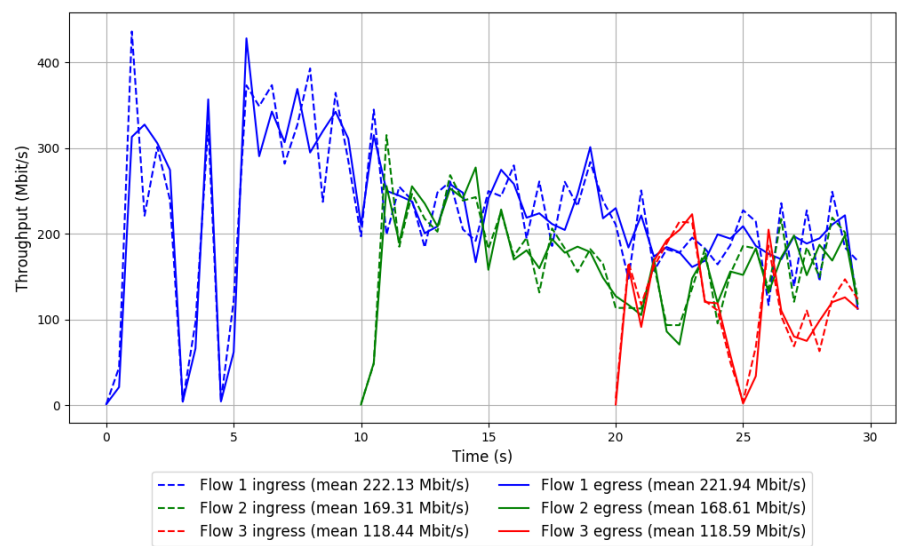
-- Flow 3:

Average throughput: 118.59 Mbit/s

95th percentile per-packet one-way delay: 144.865 ms

Loss rate: 1.99%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2017-12-06 04:11:05

End at: 2017-12-06 04:11:35

Below is generated by plot.py at 2017-12-06 08:25:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 328.42 Mbit/s

95th percentile per-packet one-way delay: 194.278 ms

Loss rate: 1.14%

-- Flow 1:

Average throughput: 237.57 Mbit/s

95th percentile per-packet one-way delay: 208.941 ms

Loss rate: 1.16%

-- Flow 2:

Average throughput: 96.37 Mbit/s

95th percentile per-packet one-way delay: 138.014 ms

Loss rate: 1.47%

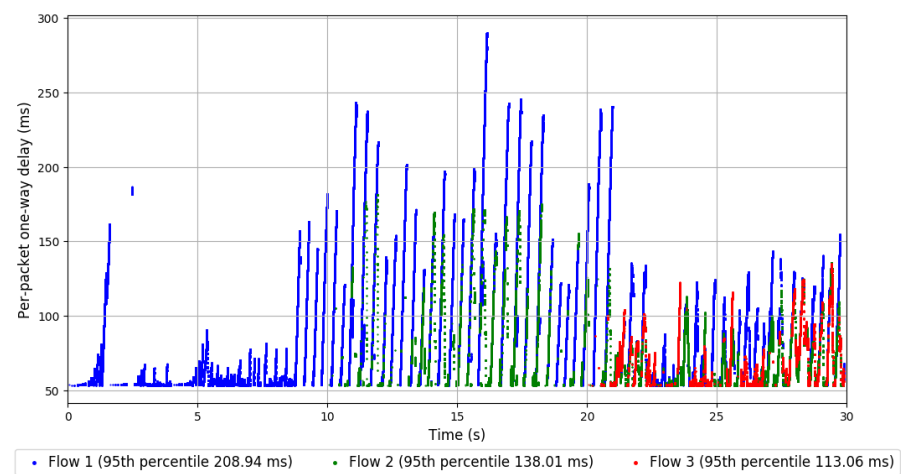
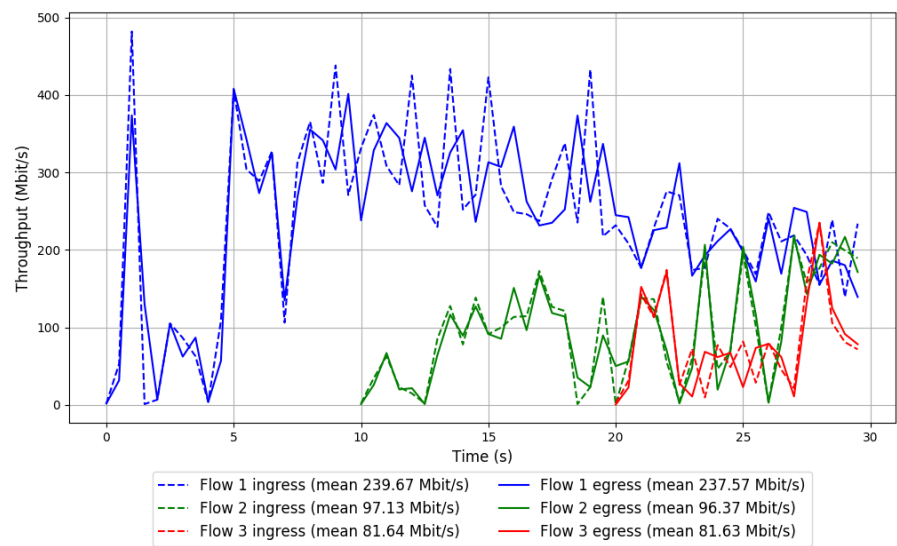
-- Flow 3:

Average throughput: 81.63 Mbit/s

95th percentile per-packet one-way delay: 113.064 ms

Loss rate: 0.18%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2017-12-06 04:23:36

End at: 2017-12-06 04:24:06

Below is generated by plot.py at 2017-12-06 08:25:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 315.12 Mbit/s

95th percentile per-packet one-way delay: 164.130 ms

Loss rate: 1.00%

-- Flow 1:

Average throughput: 150.07 Mbit/s

95th percentile per-packet one-way delay: 142.989 ms

Loss rate: 0.95%

-- Flow 2:

Average throughput: 199.08 Mbit/s

95th percentile per-packet one-way delay: 195.705 ms

Loss rate: 0.61%

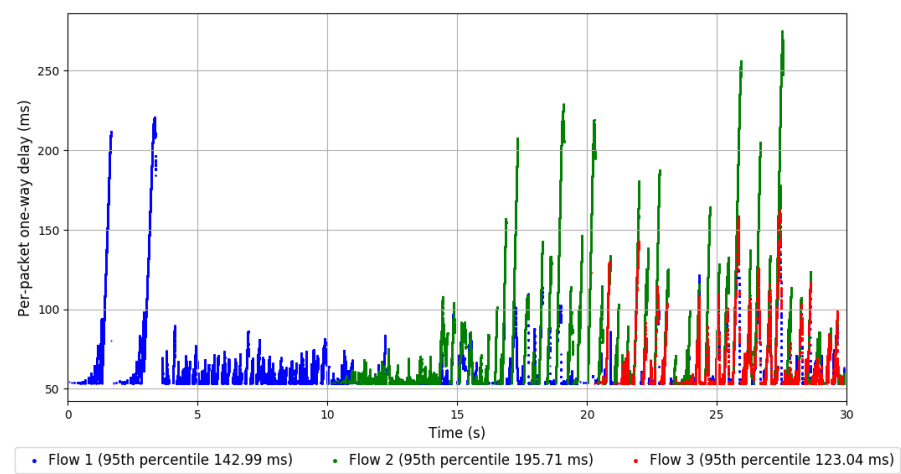
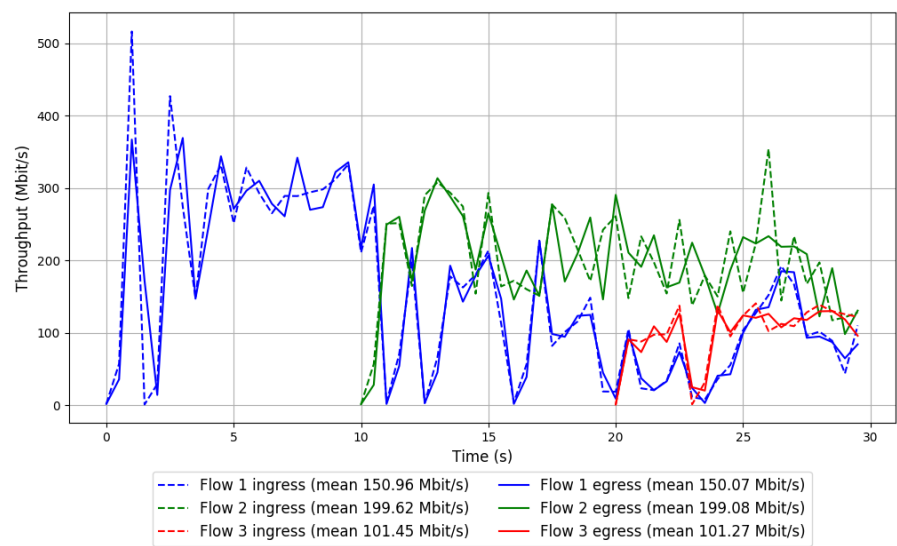
-- Flow 3:

Average throughput: 101.27 Mbit/s

95th percentile per-packet one-way delay: 123.041 ms

Loss rate: 2.80%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2017-12-06 04:35:45

End at: 2017-12-06 04:36:15

Below is generated by plot.py at 2017-12-06 08:25:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 316.48 Mbit/s

95th percentile per-packet one-way delay: 150.157 ms

Loss rate: 1.70%

-- Flow 1:

Average throughput: 198.35 Mbit/s

95th percentile per-packet one-way delay: 183.482 ms

Loss rate: 1.96%

-- Flow 2:

Average throughput: 117.01 Mbit/s

95th percentile per-packet one-way delay: 96.542 ms

Loss rate: 0.69%

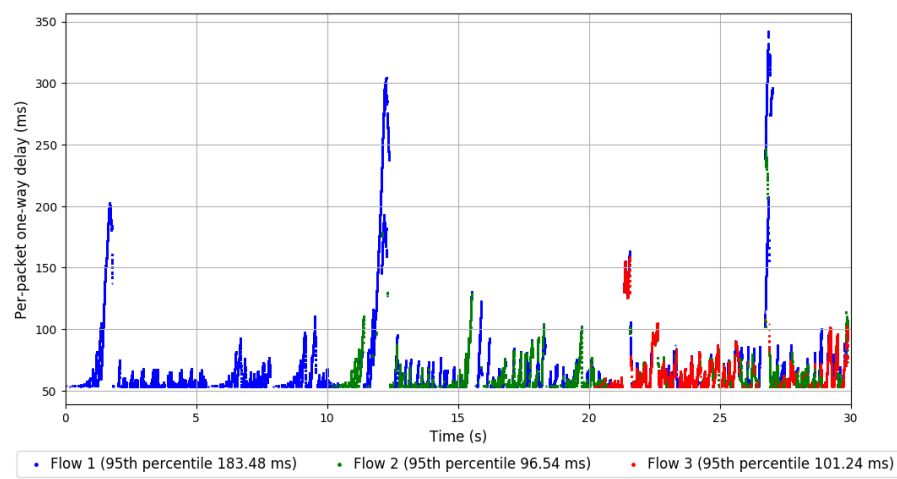
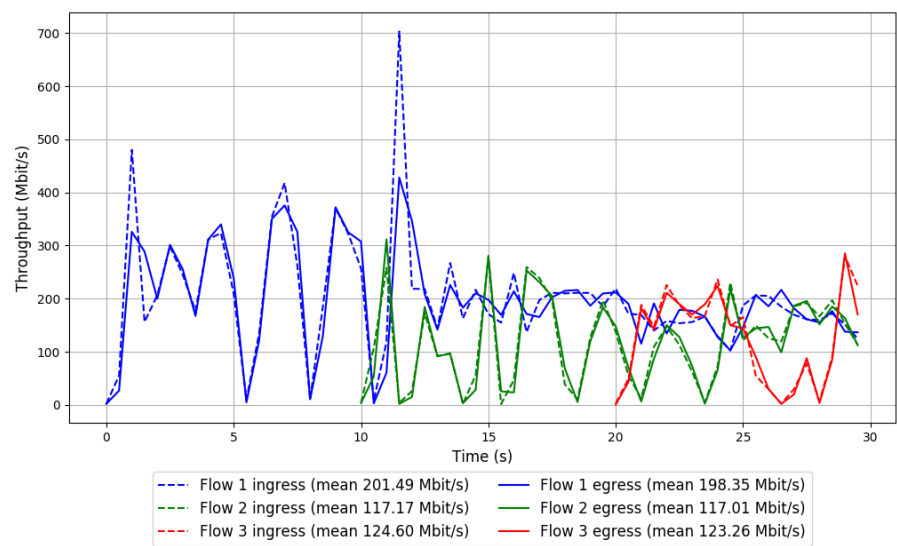
-- Flow 3:

Average throughput: 123.26 Mbit/s

95th percentile per-packet one-way delay: 101.242 ms

Loss rate: 2.31%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2017-12-06 04:47:51

End at: 2017-12-06 04:48:21

Below is generated by plot.py at 2017-12-06 08:28:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 387.58 Mbit/s

95th percentile per-packet one-way delay: 184.421 ms

Loss rate: 1.43%

-- Flow 1:

Average throughput: 240.87 Mbit/s

95th percentile per-packet one-way delay: 190.265 ms

Loss rate: 1.63%

-- Flow 2:

Average throughput: 124.77 Mbit/s

95th percentile per-packet one-way delay: 136.353 ms

Loss rate: 0.87%

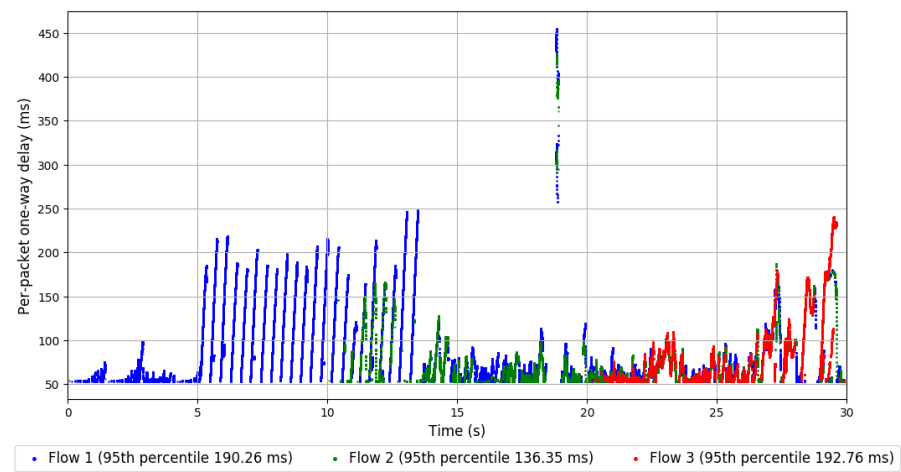
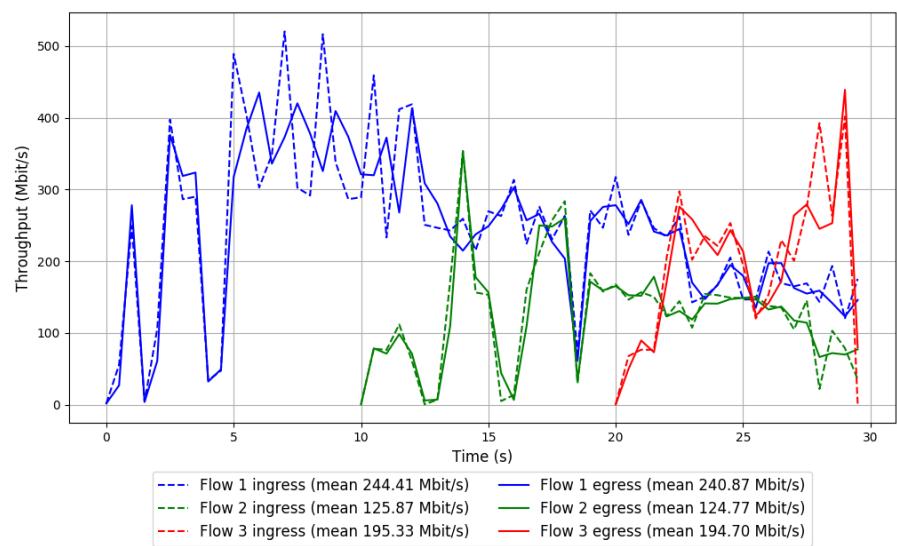
-- Flow 3:

Average throughput: 194.70 Mbit/s

95th percentile per-packet one-way delay: 192.761 ms

Loss rate: 1.41%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2017-12-06 05:00:04

End at: 2017-12-06 05:00:34

Below is generated by plot.py at 2017-12-06 08:28:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 267.35 Mbit/s

95th percentile per-packet one-way delay: 127.003 ms

Loss rate: 0.77%

-- Flow 1:

Average throughput: 161.03 Mbit/s

95th percentile per-packet one-way delay: 140.941 ms

Loss rate: 0.80%

-- Flow 2:

Average throughput: 131.76 Mbit/s

95th percentile per-packet one-way delay: 106.906 ms

Loss rate: 0.00%

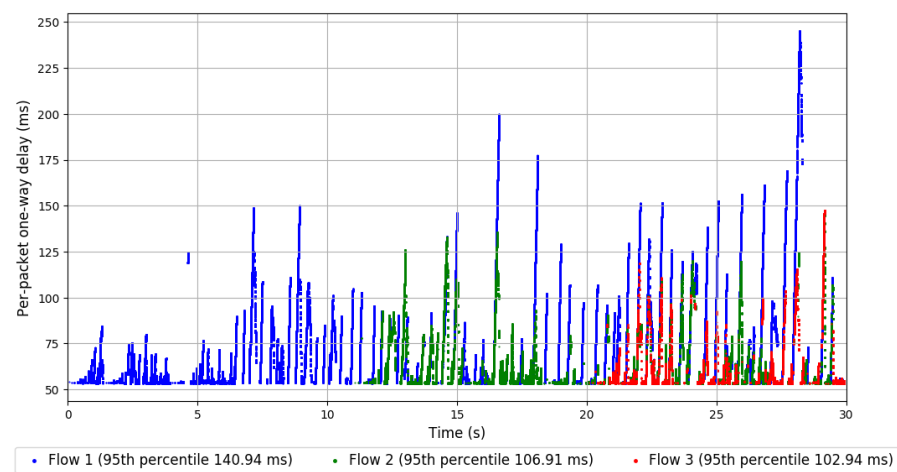
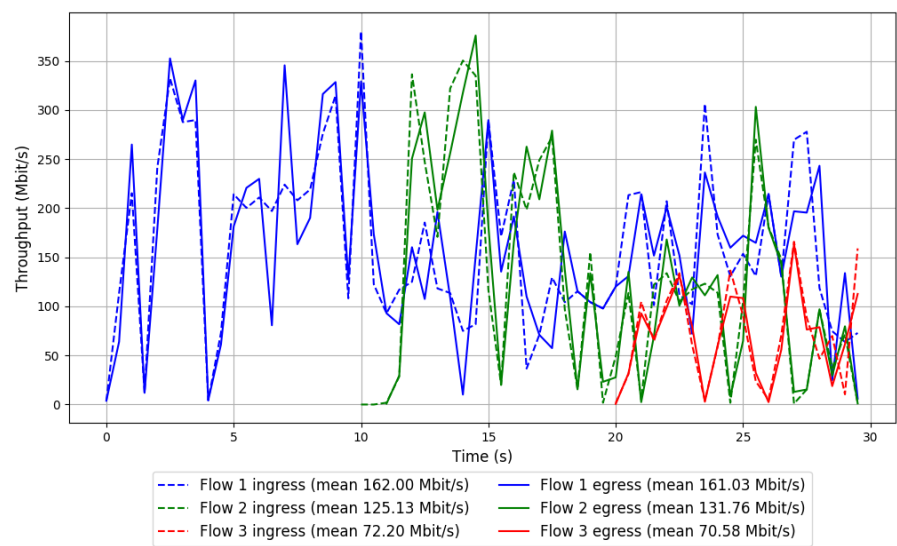
-- Flow 3:

Average throughput: 70.58 Mbit/s

95th percentile per-packet one-way delay: 102.936 ms

Loss rate: 3.24%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2017-12-06 05:12:00

End at: 2017-12-06 05:12:30

Below is generated by plot.py at 2017-12-06 08:31:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 354.94 Mbit/s

95th percentile per-packet one-way delay: 150.763 ms

Loss rate: 2.68%

-- Flow 1:

Average throughput: 199.50 Mbit/s

95th percentile per-packet one-way delay: 157.647 ms

Loss rate: 3.52%

-- Flow 2:

Average throughput: 170.67 Mbit/s

95th percentile per-packet one-way delay: 155.192 ms

Loss rate: 1.01%

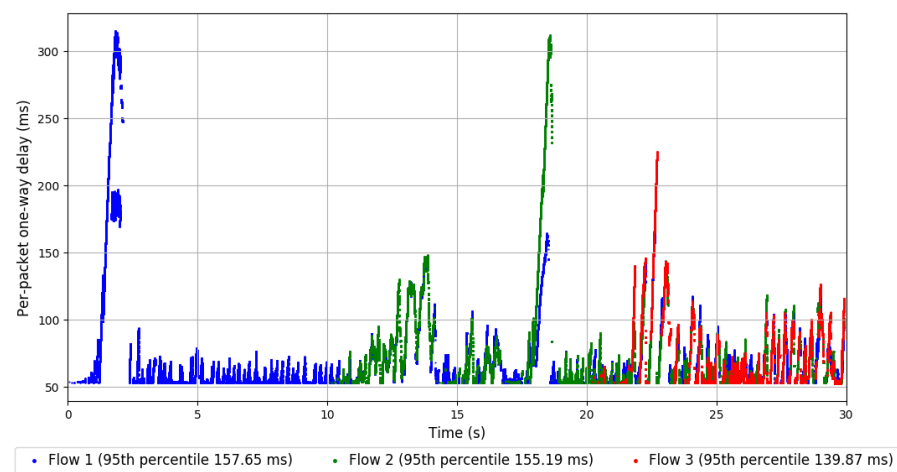
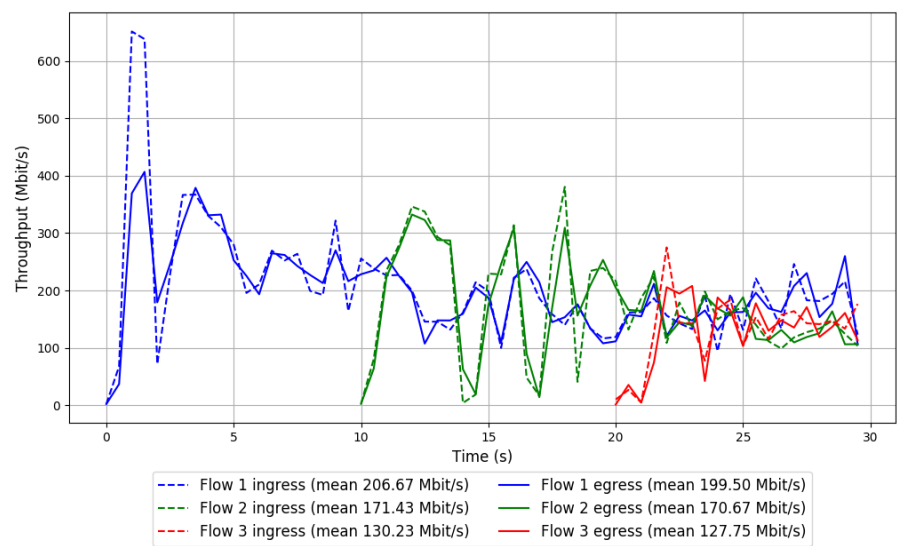
-- Flow 3:

Average throughput: 127.75 Mbit/s

95th percentile per-packet one-way delay: 139.869 ms

Loss rate: 3.04%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2017-12-06 05:24:08

End at: 2017-12-06 05:24:38

Below is generated by plot.py at 2017-12-06 08:31:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 380.51 Mbit/s

95th percentile per-packet one-way delay: 128.576 ms

Loss rate: 0.76%

-- Flow 1:

Average throughput: 223.99 Mbit/s

95th percentile per-packet one-way delay: 119.890 ms

Loss rate: 0.27%

-- Flow 2:

Average throughput: 179.29 Mbit/s

95th percentile per-packet one-way delay: 189.829 ms

Loss rate: 0.95%

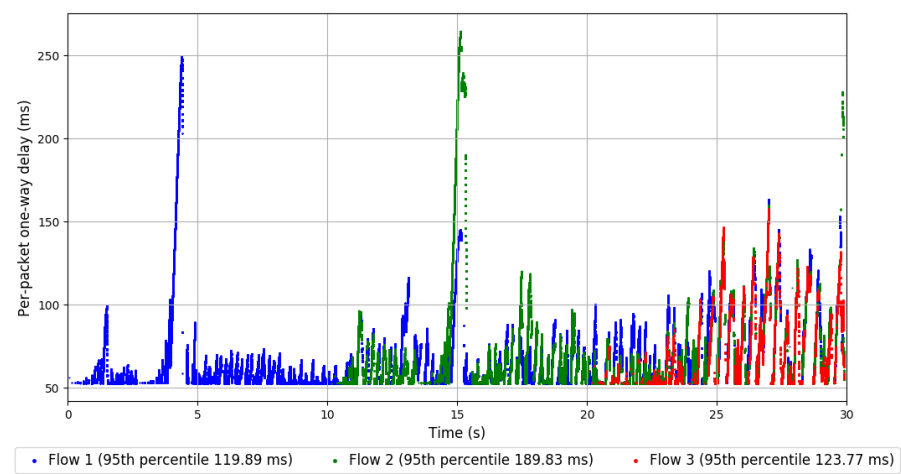
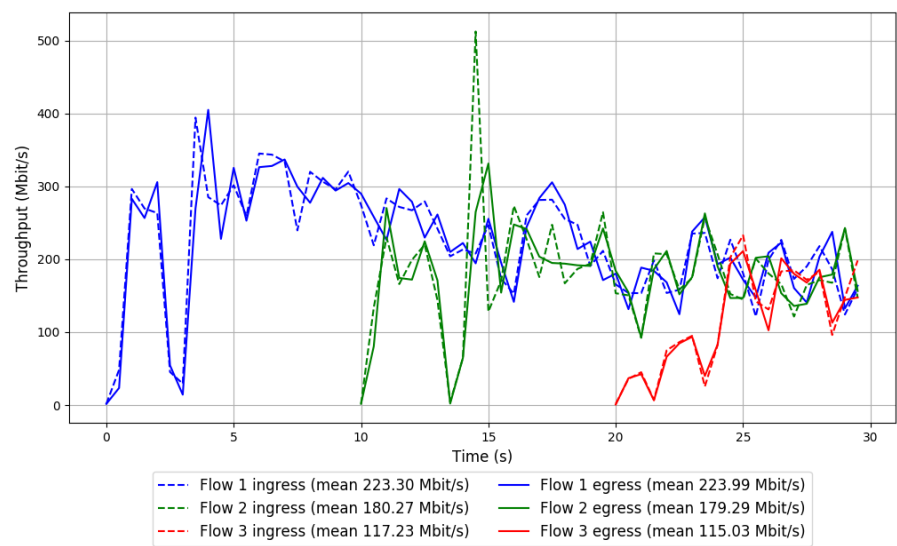
-- Flow 3:

Average throughput: 115.03 Mbit/s

95th percentile per-packet one-way delay: 123.770 ms

Loss rate: 2.99%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2017-12-06 03:38:48

End at: 2017-12-06 03:39:19

Below is generated by plot.py at 2017-12-06 08:31:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 165.59 Mbit/s

95th percentile per-packet one-way delay: 53.162 ms

Loss rate: 0.62%

-- Flow 1:

Average throughput: 78.52 Mbit/s

95th percentile per-packet one-way delay: 53.187 ms

Loss rate: 0.23%

-- Flow 2:

Average throughput: 93.55 Mbit/s

95th percentile per-packet one-way delay: 53.148 ms

Loss rate: 0.80%

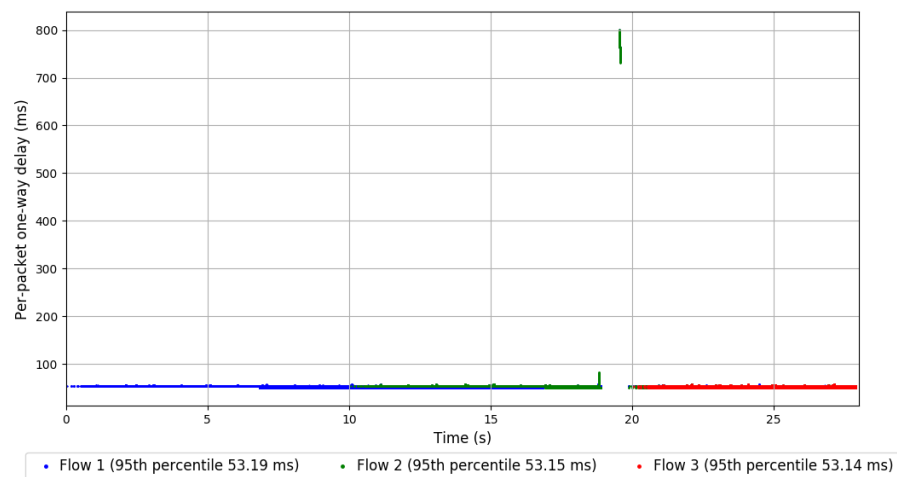
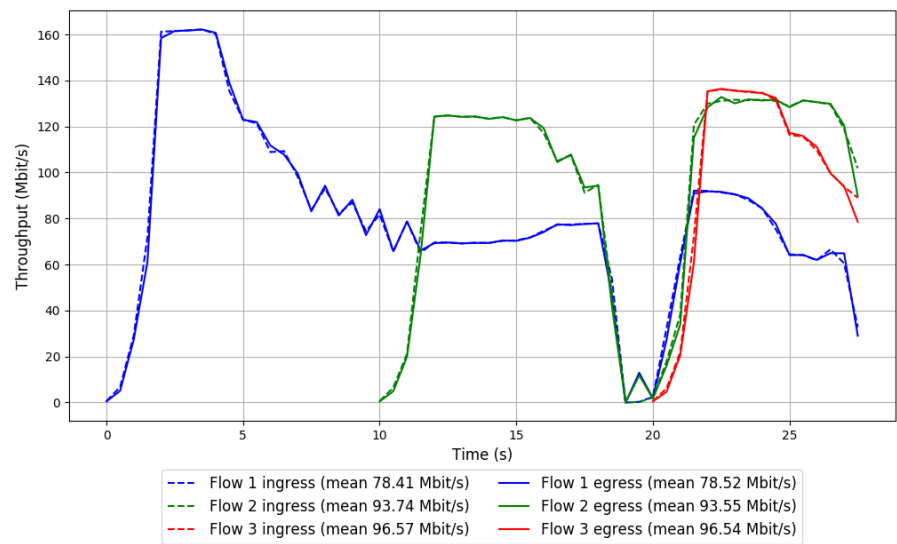
-- Flow 3:

Average throughput: 96.54 Mbit/s

95th percentile per-packet one-way delay: 53.136 ms

Loss rate: 1.36%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2017-12-06 03:51:12

End at: 2017-12-06 03:51:42

Below is generated by plot.py at 2017-12-06 08:31:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 140.98 Mbit/s

95th percentile per-packet one-way delay: 53.736 ms

Loss rate: 0.45%

-- Flow 1:

Average throughput: 79.72 Mbit/s

95th percentile per-packet one-way delay: 53.670 ms

Loss rate: 0.29%

-- Flow 2:

Average throughput: 65.36 Mbit/s

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

Loss rate: 0.18%

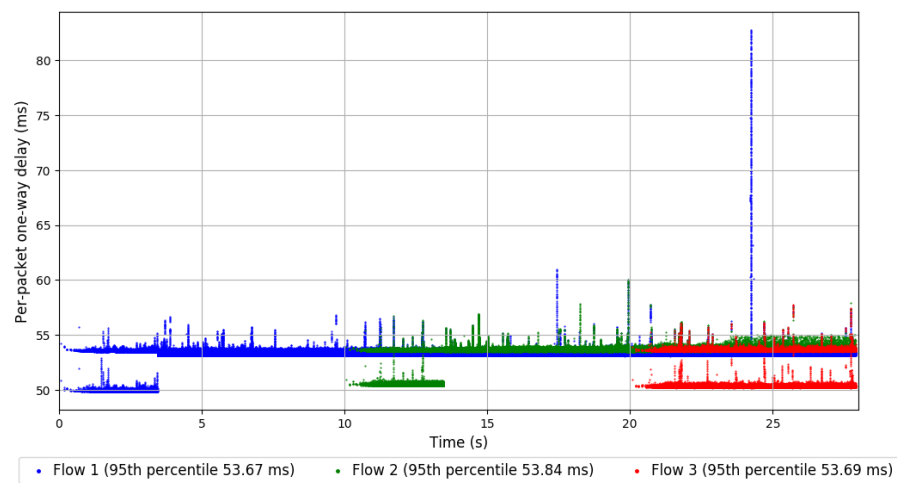
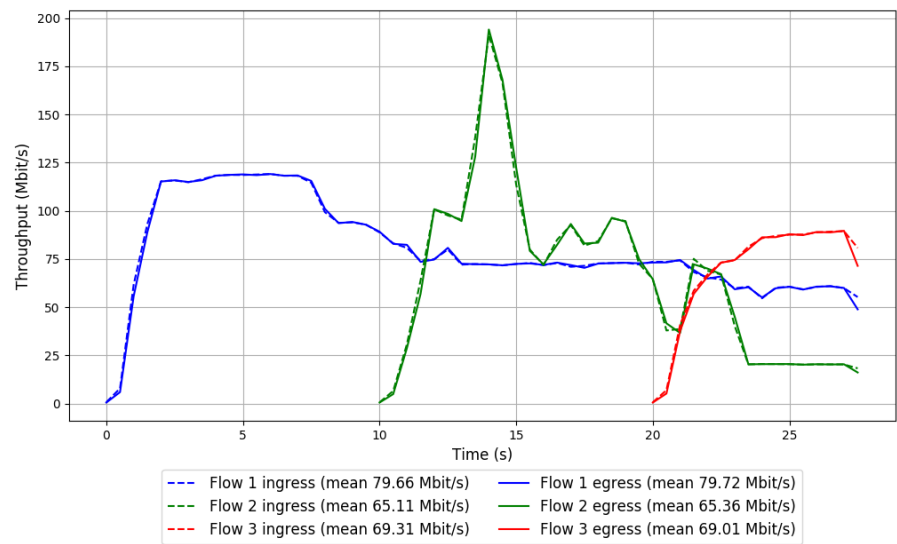
-- Flow 3:

Average throughput: 69.01 Mbit/s

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

Loss rate: 1.70%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2017-12-06 04:03:22

End at: 2017-12-06 04:03:52

Below is generated by plot.py at 2017-12-06 08:31:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 116.41 Mbit/s

95th percentile per-packet one-way delay: 53.650 ms

Loss rate: 0.50%

-- Flow 1:

Average throughput: 39.91 Mbit/s

95th percentile per-packet one-way delay: 53.635 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 83.68 Mbit/s

95th percentile per-packet one-way delay: 53.651 ms

Loss rate: 0.51%

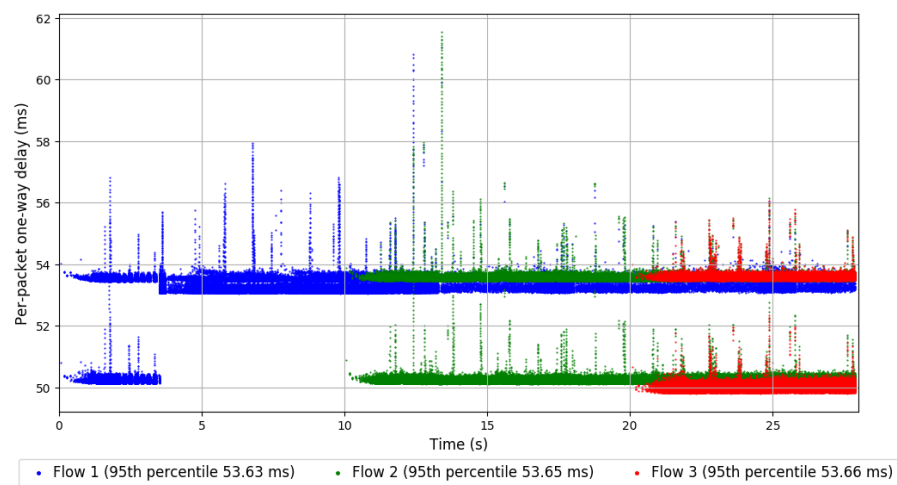
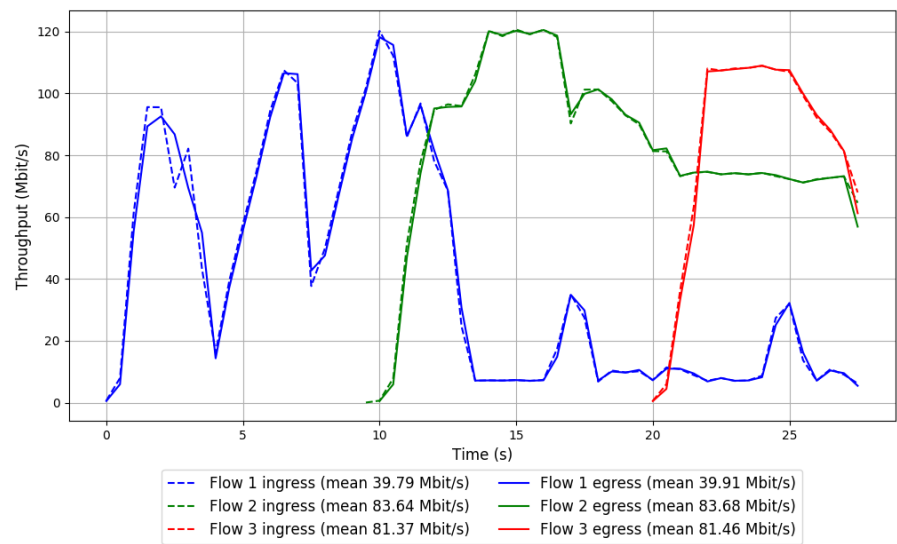
-- Flow 3:

Average throughput: 81.46 Mbit/s

95th percentile per-packet one-way delay: 53.662 ms

Loss rate: 1.20%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2017-12-06 04:15:36

End at: 2017-12-06 04:16:06

Below is generated by plot.py at 2017-12-06 08:31:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 148.61 Mbit/s

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

Loss rate: 0.54%

-- Flow 1:

Average throughput: 82.89 Mbit/s

95th percentile per-packet one-way delay: 53.628 ms

Loss rate: 0.37%

-- Flow 2:

Average throughput: 65.64 Mbit/s

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

Loss rate: 0.51%

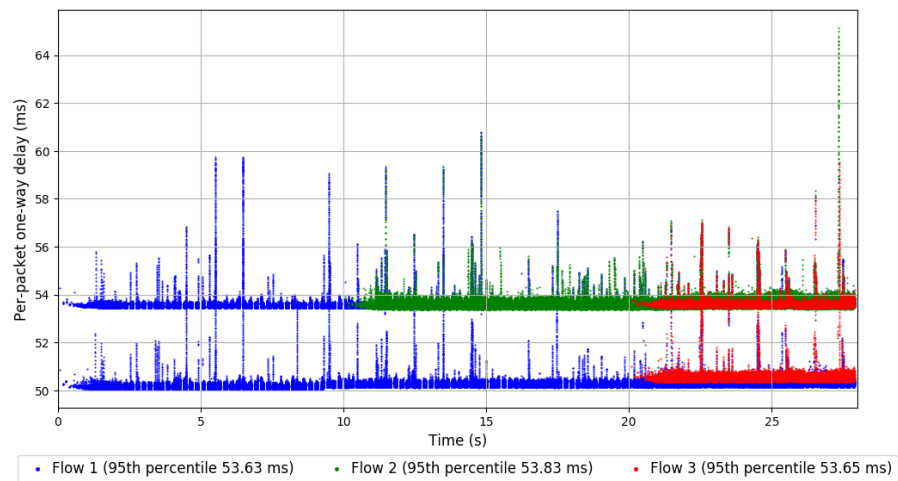
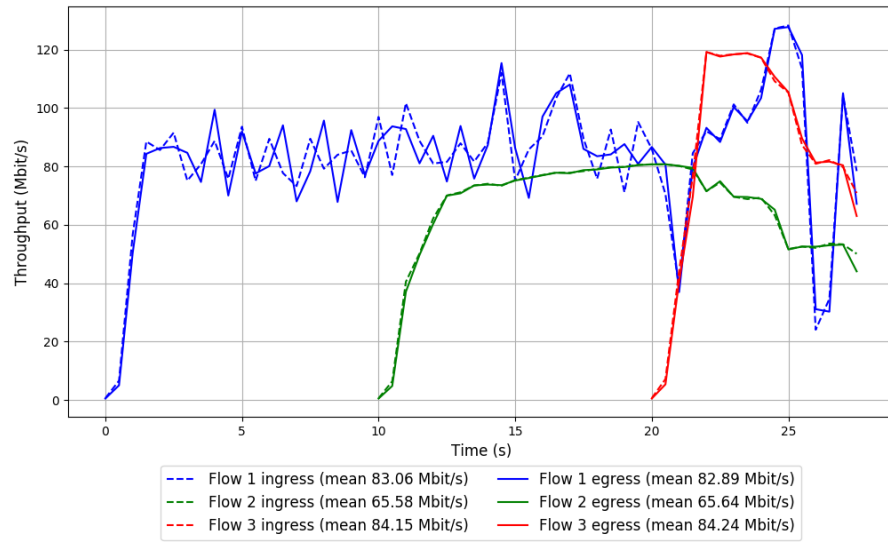
-- Flow 3:

Average throughput: 84.24 Mbit/s

95th percentile per-packet one-way delay: 53.646 ms

Loss rate: 1.21%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2017-12-06 04:27:46

End at: 2017-12-06 04:28:16

Below is generated by plot.py at 2017-12-06 08:31:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 127.24 Mbit/s

95th percentile per-packet one-way delay: 53.640 ms

Loss rate: 0.62%

-- Flow 1:

Average throughput: 55.39 Mbit/s

95th percentile per-packet one-way delay: 53.614 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 76.36 Mbit/s

95th percentile per-packet one-way delay: 53.614 ms

Loss rate: 0.96%

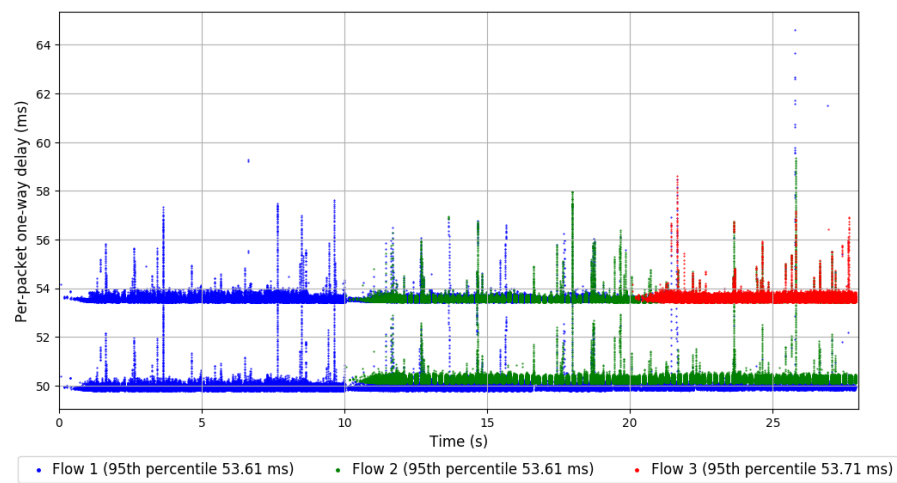
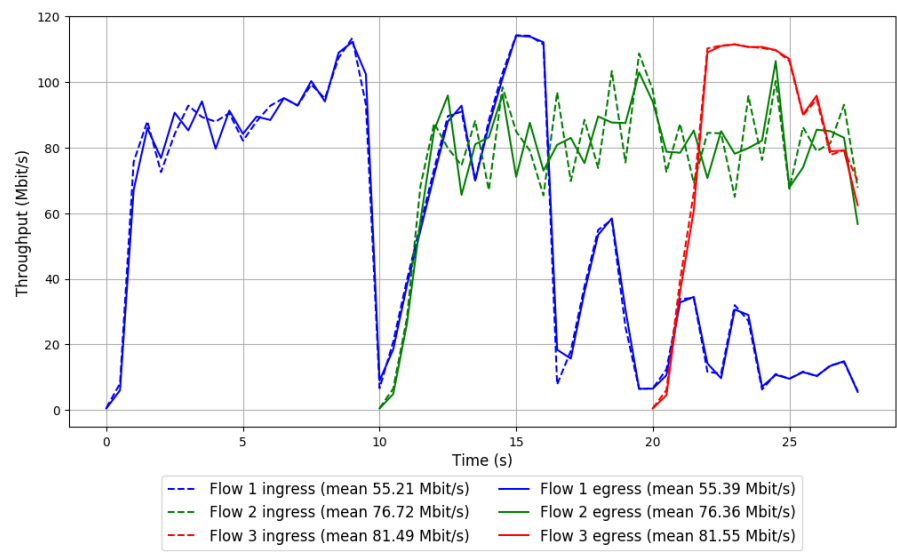
-- Flow 3:

Average throughput: 81.55 Mbit/s

95th percentile per-packet one-way delay: 53.707 ms

Loss rate: 1.24%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2017-12-06 04:40:03

End at: 2017-12-06 04:40:33

Below is generated by plot.py at 2017-12-06 08:33:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 142.05 Mbit/s

95th percentile per-packet one-way delay: 53.657 ms

Loss rate: 0.53%

-- Flow 1:

Average throughput: 69.63 Mbit/s

95th percentile per-packet one-way delay: 53.584 ms

Loss rate: 0.24%

-- Flow 2:

Average throughput: 80.02 Mbit/s

95th percentile per-packet one-way delay: 53.727 ms

Loss rate: 0.59%

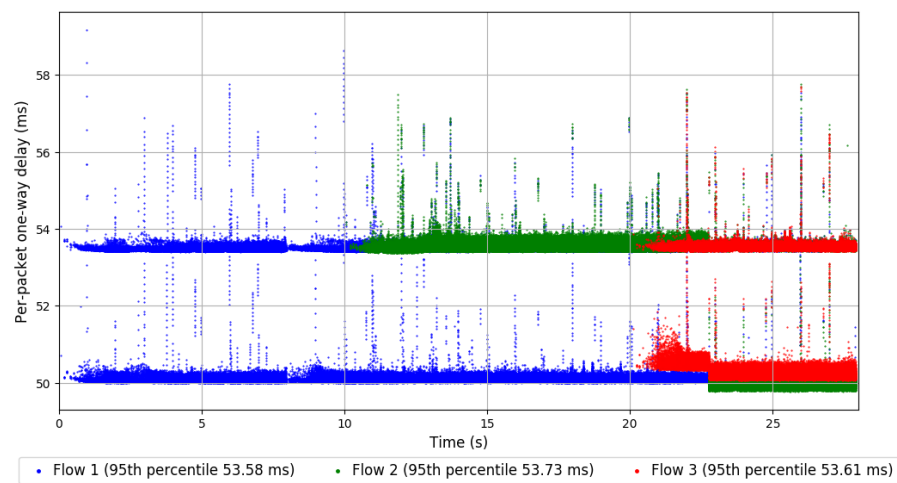
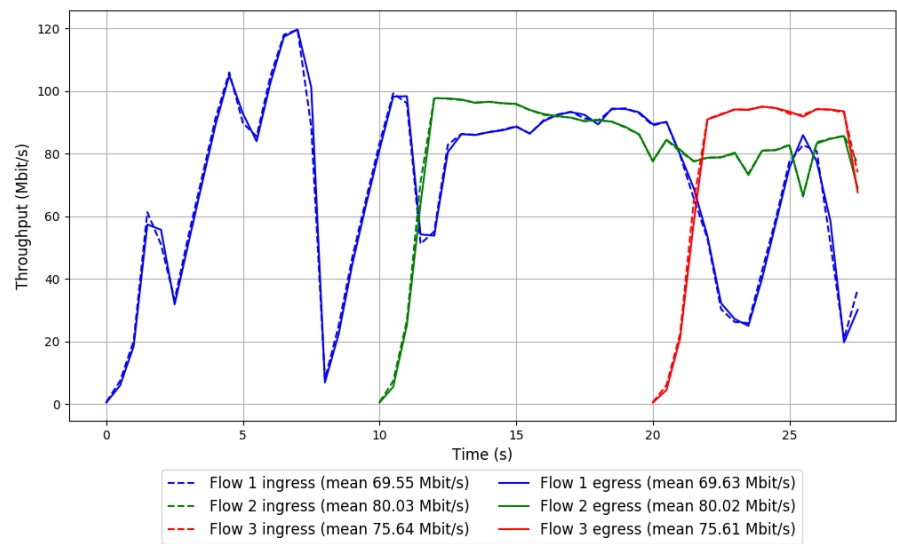
-- Flow 3:

Average throughput: 75.61 Mbit/s

95th percentile per-packet one-way delay: 53.613 ms

Loss rate: 1.33%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2017-12-06 04:52:13

End at: 2017-12-06 04:52:43

Below is generated by plot.py at 2017-12-06 08:33:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 139.88 Mbit/s

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

Loss rate: 0.64%

-- Flow 1:

Average throughput: 74.71 Mbit/s

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

Loss rate: 0.18%

-- Flow 2:

Average throughput: 74.60 Mbit/s

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

Loss rate: 0.57%

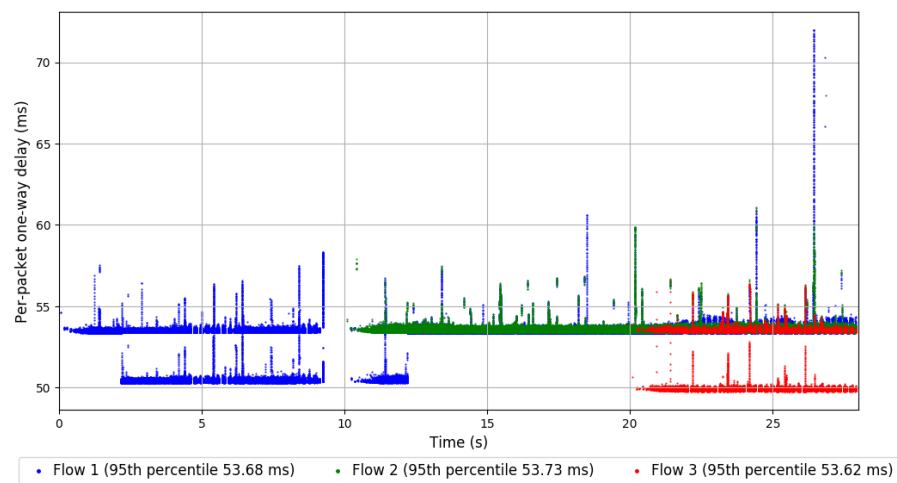
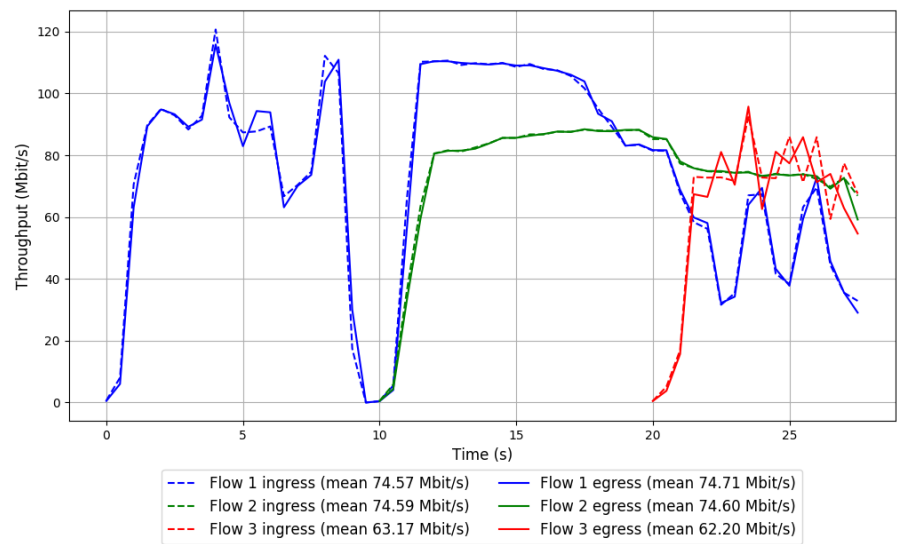
-- Flow 3:

Average throughput: 62.20 Mbit/s

95th percentile per-packet one-way delay: 53.616 ms

Loss rate: 2.75%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2017-12-06 05:04:19

End at: 2017-12-06 05:04:49

Below is generated by plot.py at 2017-12-06 08:33:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 131.84 Mbit/s

95th percentile per-packet one-way delay: 53.578 ms

Loss rate: 0.83%

-- Flow 1:

Average throughput: 55.92 Mbit/s

95th percentile per-packet one-way delay: 53.578 ms

Loss rate: 0.74%

-- Flow 2:

Average throughput: 77.22 Mbit/s

95th percentile per-packet one-way delay: 53.571 ms

Loss rate: 0.88%

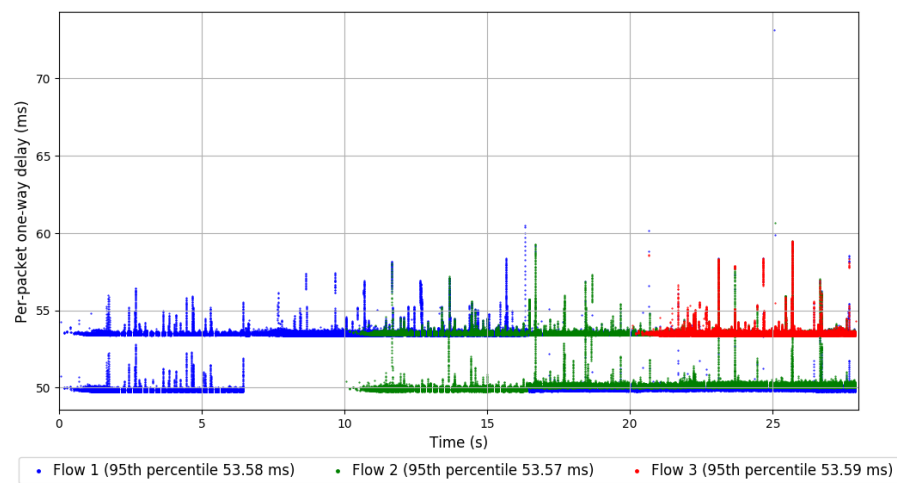
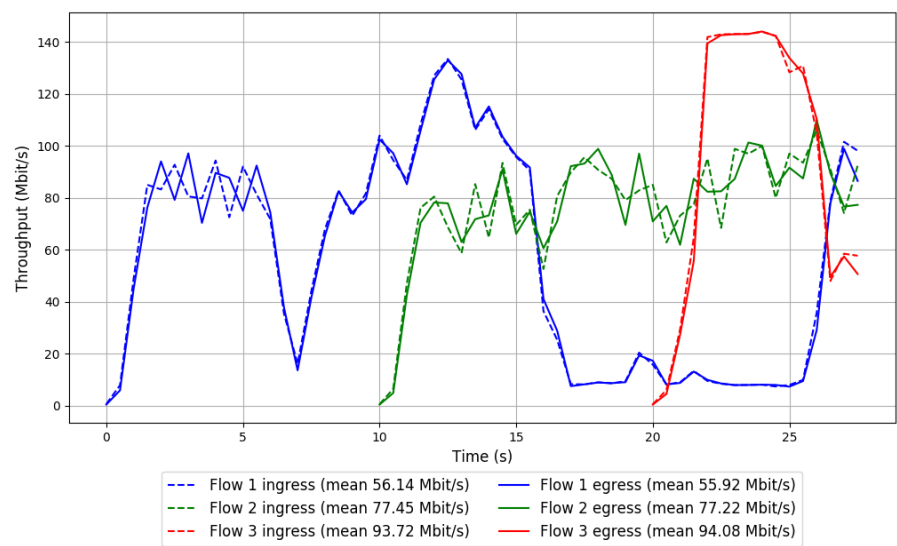
-- Flow 3:

Average throughput: 94.08 Mbit/s

95th percentile per-packet one-way delay: 53.589 ms

Loss rate: 0.93%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2017-12-06 05:16:18

End at: 2017-12-06 05:16:48

Below is generated by plot.py at 2017-12-06 08:34:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 149.16 Mbit/s

95th percentile per-packet one-way delay: 53.460 ms

Loss rate: 0.51%

-- Flow 1:

Average throughput: 81.37 Mbit/s

95th percentile per-packet one-way delay: 53.059 ms

Loss rate: 0.32%

-- Flow 2:

Average throughput: 79.60 Mbit/s

95th percentile per-packet one-way delay: 53.047 ms

Loss rate: 0.43%

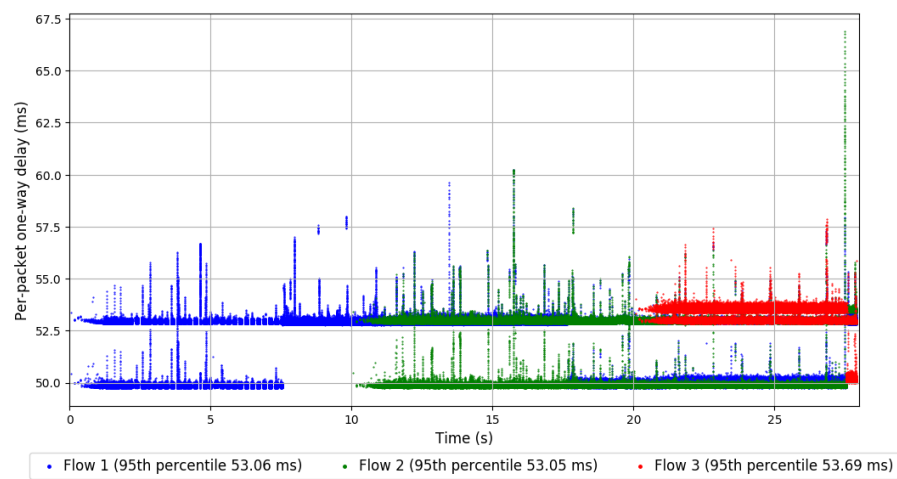
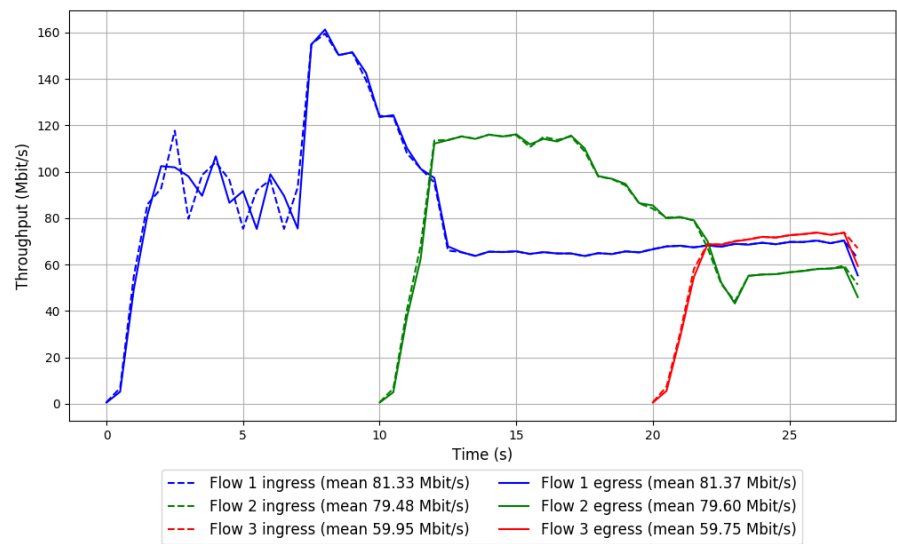
-- Flow 3:

Average throughput: 59.75 Mbit/s

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

Loss rate: 1.64%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2017-12-06 05:28:35

End at: 2017-12-06 05:29:06

Below is generated by plot.py at 2017-12-06 08:34:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 135.08 Mbit/s

95th percentile per-packet one-way delay: 53.587 ms

Loss rate: 0.44%

-- Flow 1:

Average throughput: 62.57 Mbit/s

95th percentile per-packet one-way delay: 53.002 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 79.25 Mbit/s

95th percentile per-packet one-way delay: 53.618 ms

Loss rate: 0.58%

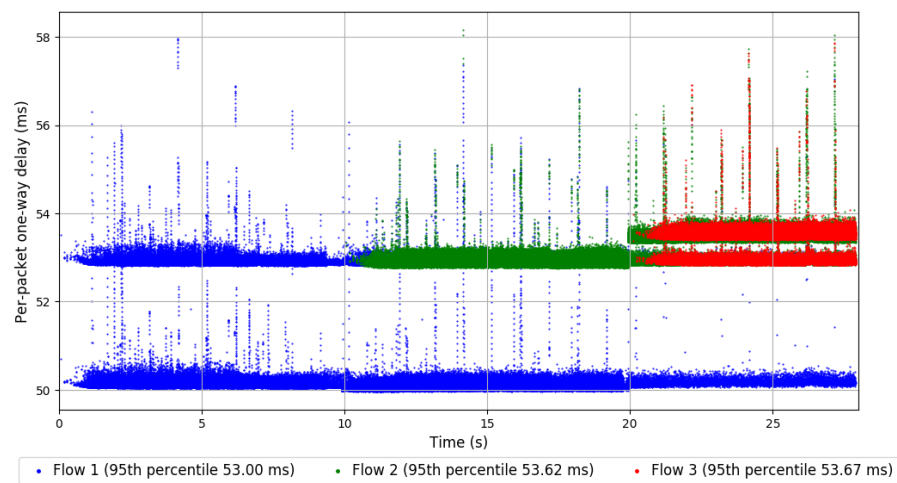
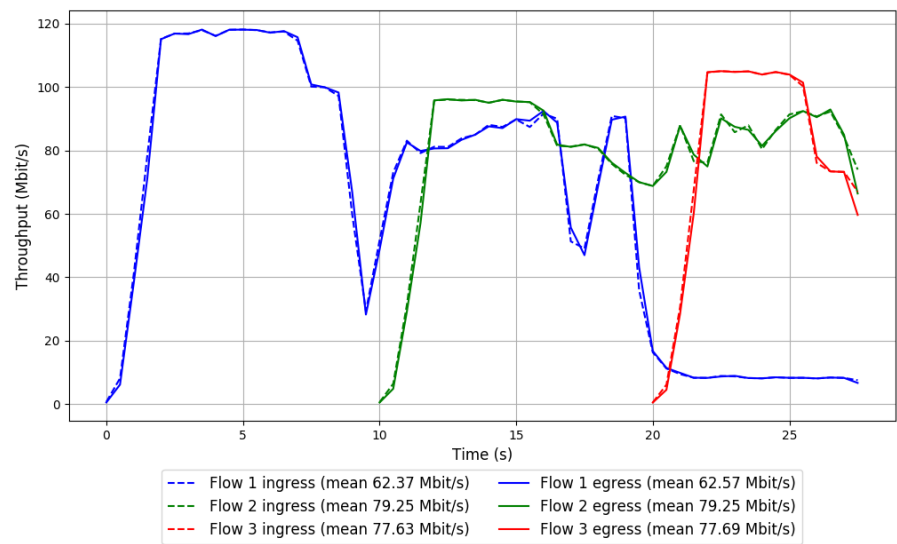
-- Flow 3:

Average throughput: 77.69 Mbit/s

95th percentile per-packet one-way delay: 53.672 ms

Loss rate: 1.24%

Run 10: Report of Copa — Data Link

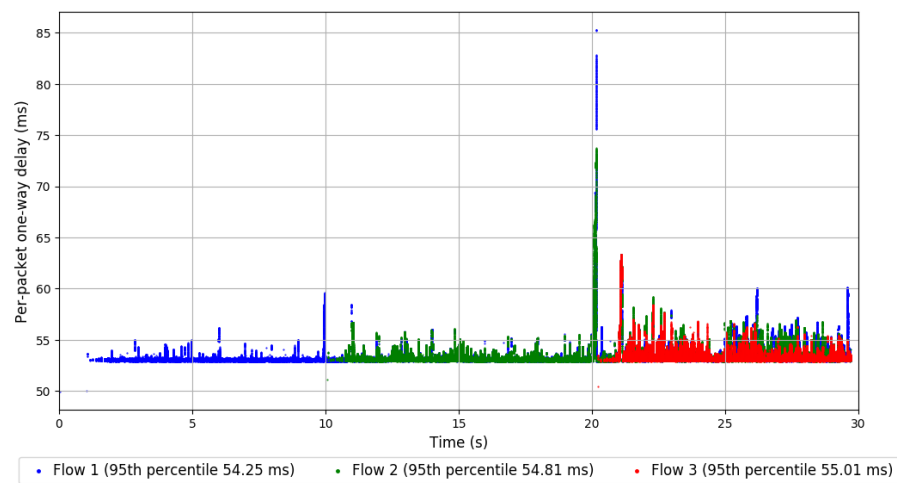
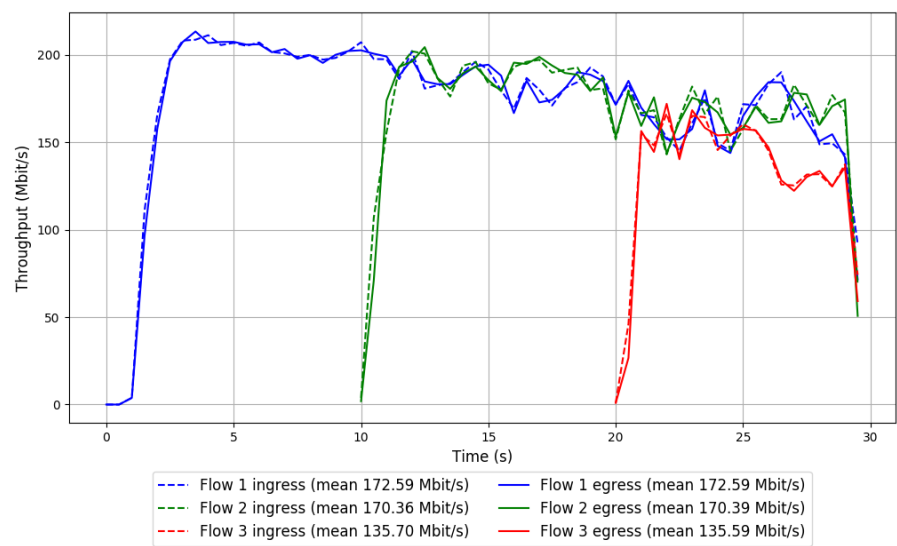


```
Run 1: Statistics of Indigo

Start at: 2017-12-06 03:36:54
End at: 2017-12-06 03:37:24

# Below is generated by plot.py at 2017-12-06 08:36:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 328.67 Mbit/s
95th percentile per-packet one-way delay: 54.560 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 172.59 Mbit/s
95th percentile per-packet one-way delay: 54.248 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 170.39 Mbit/s
95th percentile per-packet one-way delay: 54.814 ms
Loss rate: 0.50%
-- Flow 3:
Average throughput: 135.59 Mbit/s
95th percentile per-packet one-way delay: 55.008 ms
Loss rate: 1.15%
```


Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2017-12-06 03:49:25

End at: 2017-12-06 03:49:55

Below is generated by plot.py at 2017-12-06 08:36:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 314.12 Mbit/s

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

Loss rate: 0.52%

-- Flow 1:

Average throughput: 172.56 Mbit/s

95th percentile per-packet one-way delay: 54.270 ms

Loss rate: 0.41%

-- Flow 2:

Average throughput: 157.09 Mbit/s

95th percentile per-packet one-way delay: 54.721 ms

Loss rate: 0.46%

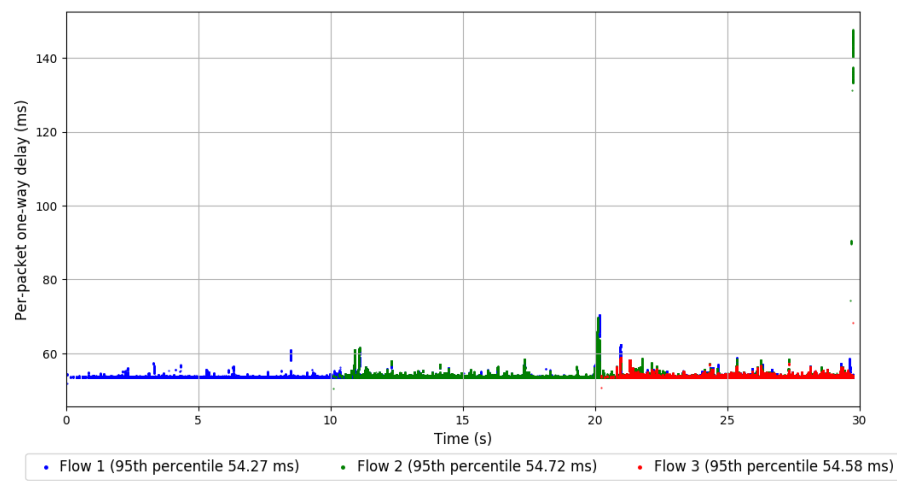
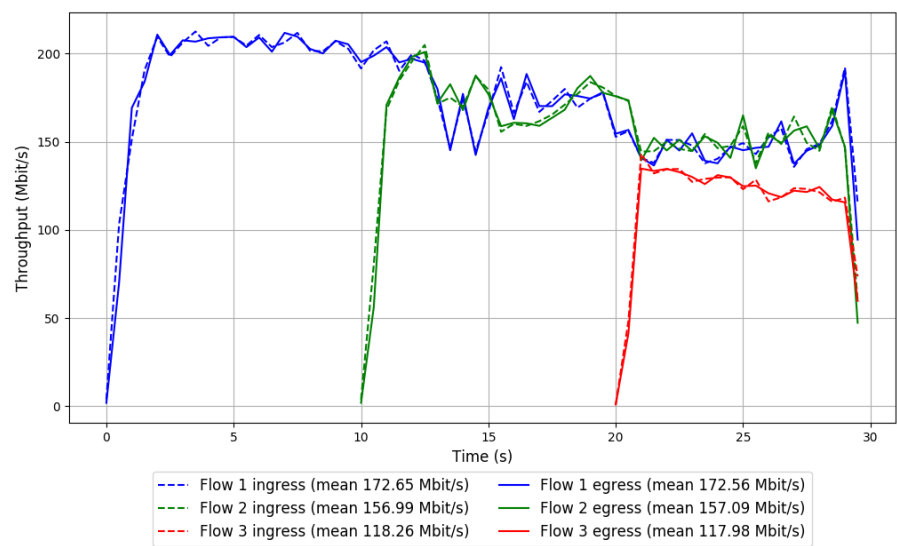
-- Flow 3:

Average throughput: 117.98 Mbit/s

95th percentile per-packet one-way delay: 54.584 ms

Loss rate: 1.19%

Run 2: Report of Indigo — Data Link

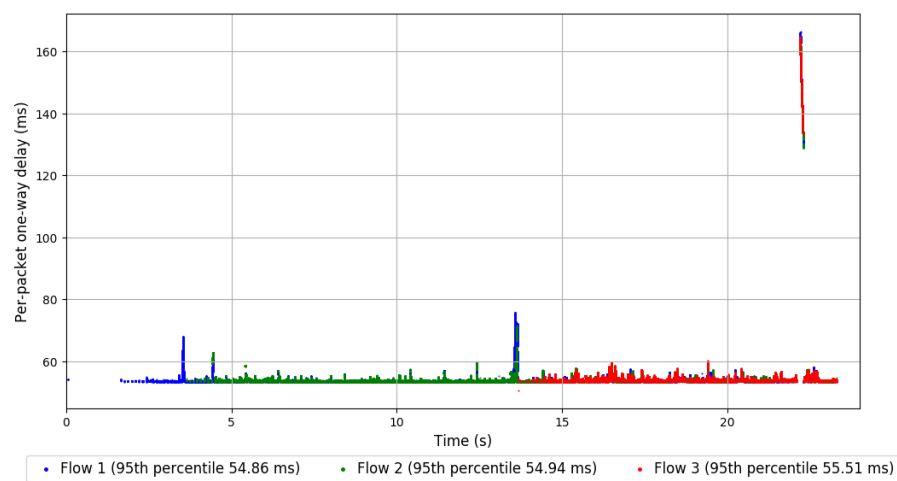
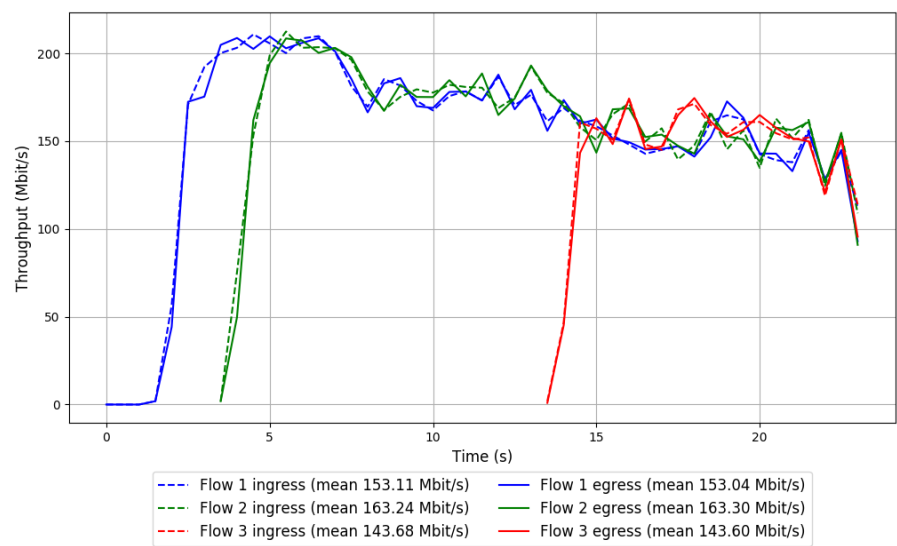


Run 3: Statistics of Indigo

Start at: 2017-12-06 04:01:39

End at: 2017-12-06 04:02:09

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2017-12-06 04:13:46

End at: 2017-12-06 04:14:16

Below is generated by plot.py at 2017-12-06 08:38:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 326.79 Mbit/s

95th percentile per-packet one-way delay: 54.931 ms

Loss rate: 0.48%

-- Flow 1:

Average throughput: 168.86 Mbit/s

95th percentile per-packet one-way delay: 54.488 ms

Loss rate: 0.30%

-- Flow 2:

Average throughput: 170.29 Mbit/s

95th percentile per-packet one-way delay: 55.203 ms

Loss rate: 0.47%

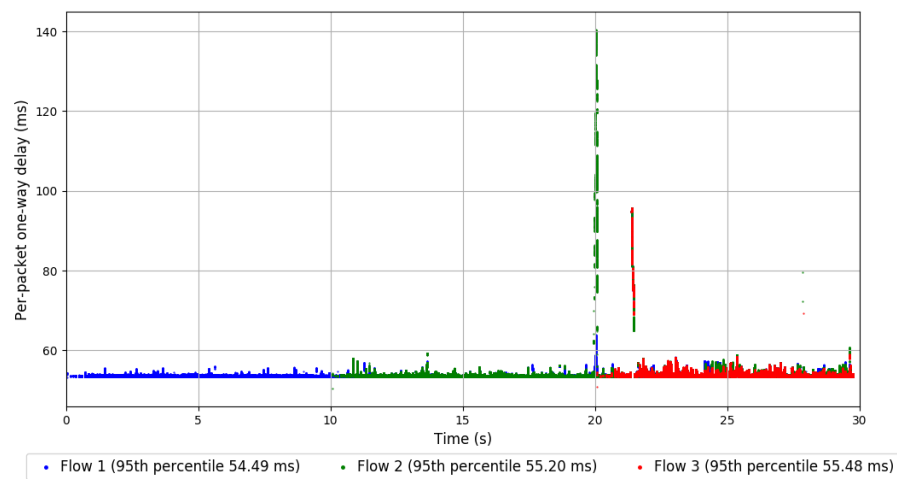
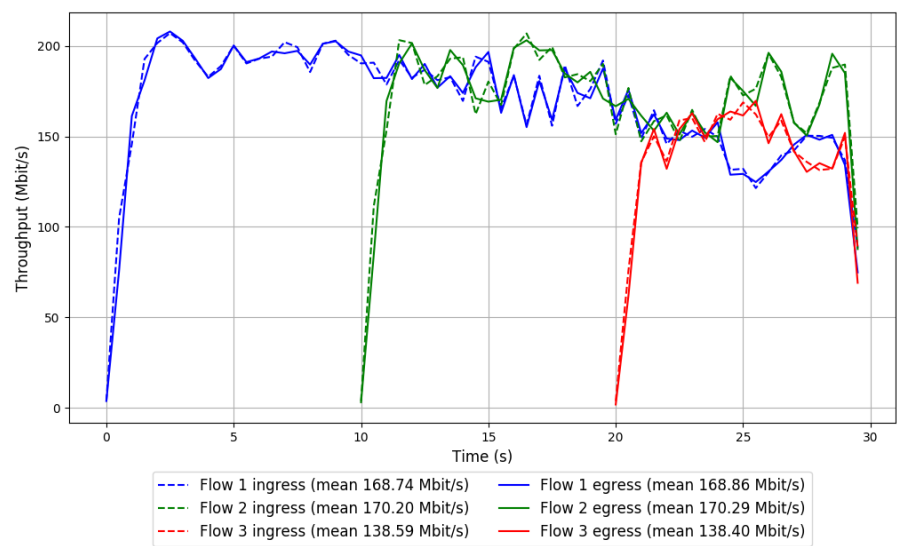
-- Flow 3:

Average throughput: 138.40 Mbit/s

95th percentile per-packet one-way delay: 55.478 ms

Loss rate: 1.21%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2017-12-06 04:26:06

End at: 2017-12-06 04:26:36

Below is generated by plot.py at 2017-12-06 08:38:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 273.04 Mbit/s

95th percentile per-packet one-way delay: 55.077 ms

Loss rate: 0.59%

-- Flow 1:

Average throughput: 103.18 Mbit/s

95th percentile per-packet one-way delay: 54.515 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 180.43 Mbit/s

95th percentile per-packet one-way delay: 55.267 ms

Loss rate: 0.46%

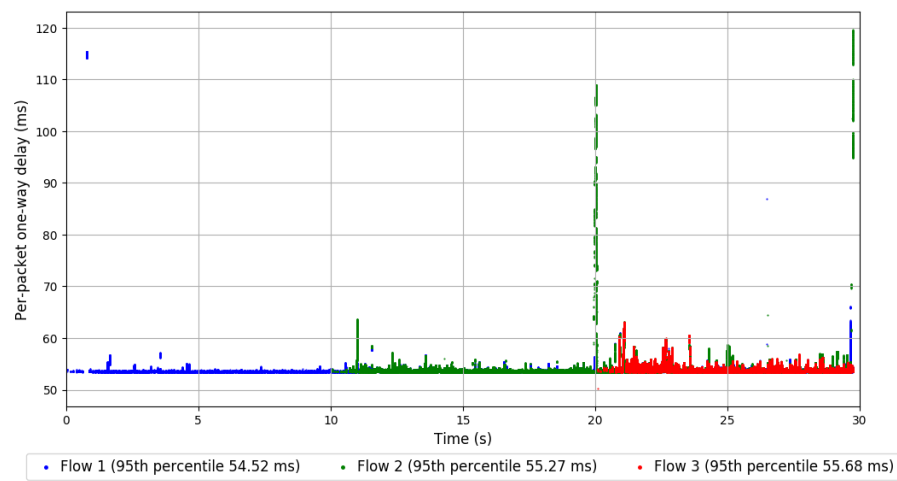
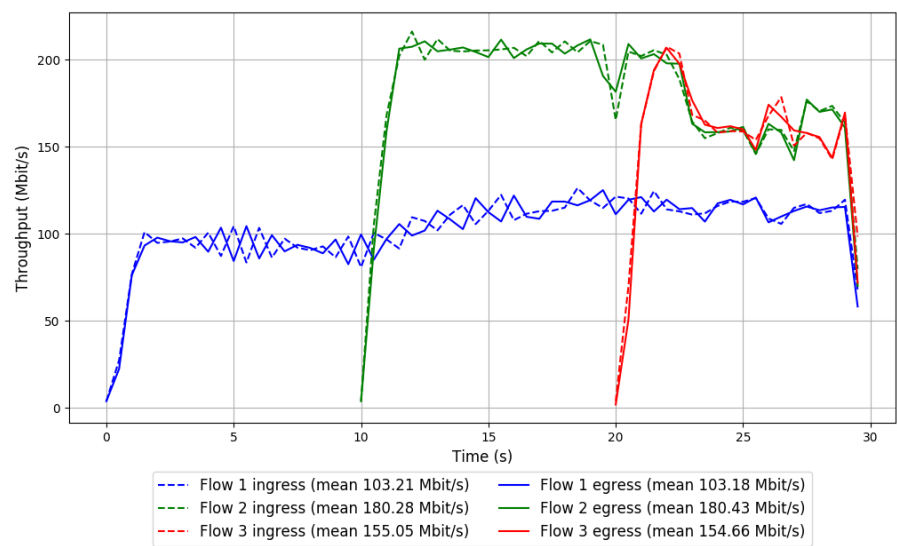
-- Flow 3:

Average throughput: 154.66 Mbit/s

95th percentile per-packet one-way delay: 55.677 ms

Loss rate: 1.33%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2017-12-06 04:38:15

End at: 2017-12-06 04:38:45

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 325.60 Mbit/s

95th percentile per-packet one-way delay: 54.797 ms

Loss rate: 0.52%

-- Flow 1:

Average throughput: 172.01 Mbit/s

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

Loss rate: 0.34%

-- Flow 2:

Average throughput: 164.20 Mbit/s

95th percentile per-packet one-way delay: 55.111 ms

Loss rate: 0.52%

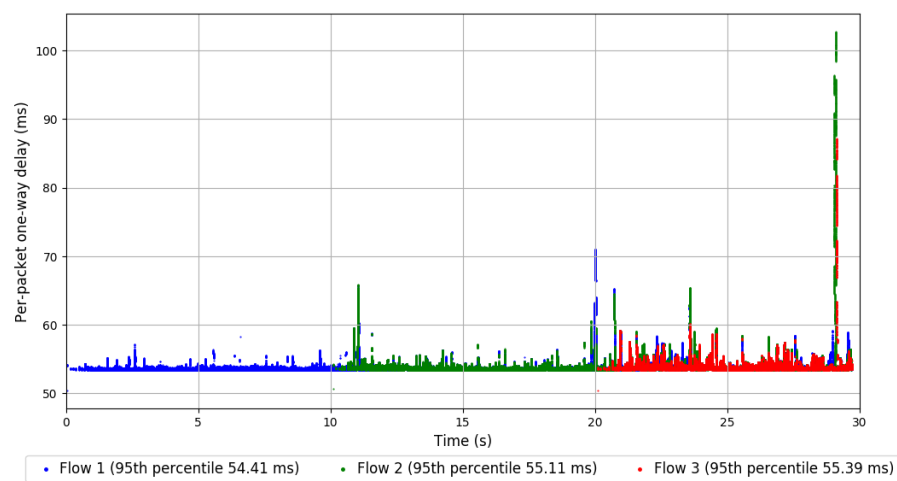
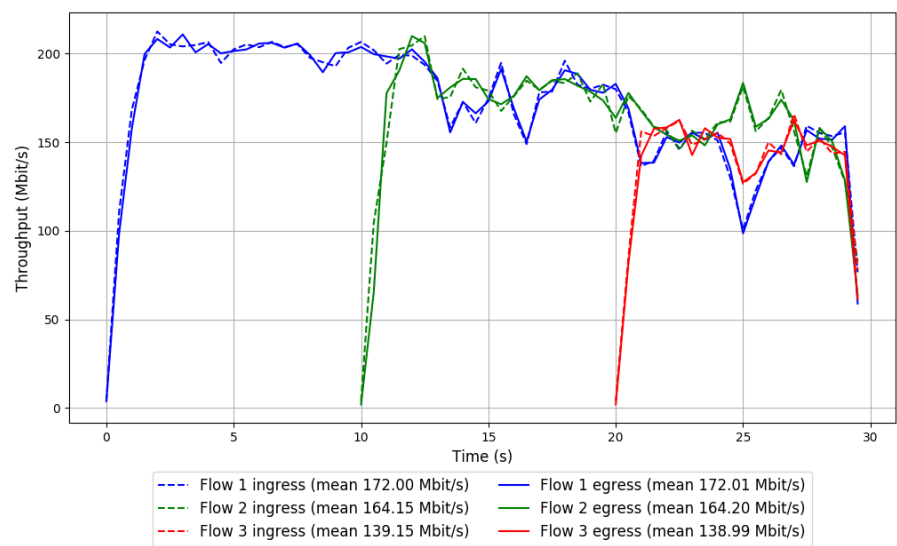
-- Flow 3:

Average throughput: 138.99 Mbit/s

95th percentile per-packet one-way delay: 55.387 ms

Loss rate: 1.20%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2017-12-06 04:50:26

End at: 2017-12-06 04:50:56

Below is generated by plot.py at 2017-12-06 08:39:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 320.24 Mbit/s

95th percentile per-packet one-way delay: 54.544 ms

Loss rate: 0.53%

-- Flow 1:

Average throughput: 174.79 Mbit/s

95th percentile per-packet one-way delay: 54.253 ms

Loss rate: 0.36%

-- Flow 2:

Average throughput: 156.38 Mbit/s

95th percentile per-packet one-way delay: 54.843 ms

Loss rate: 0.59%

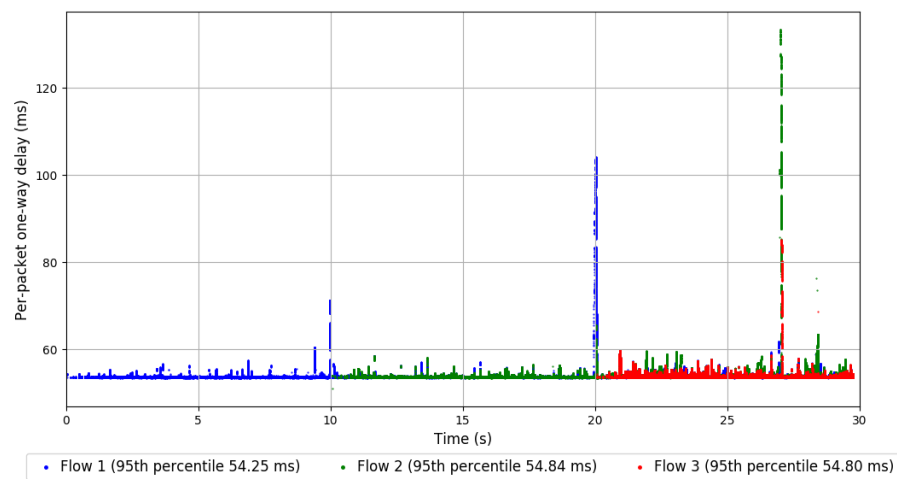
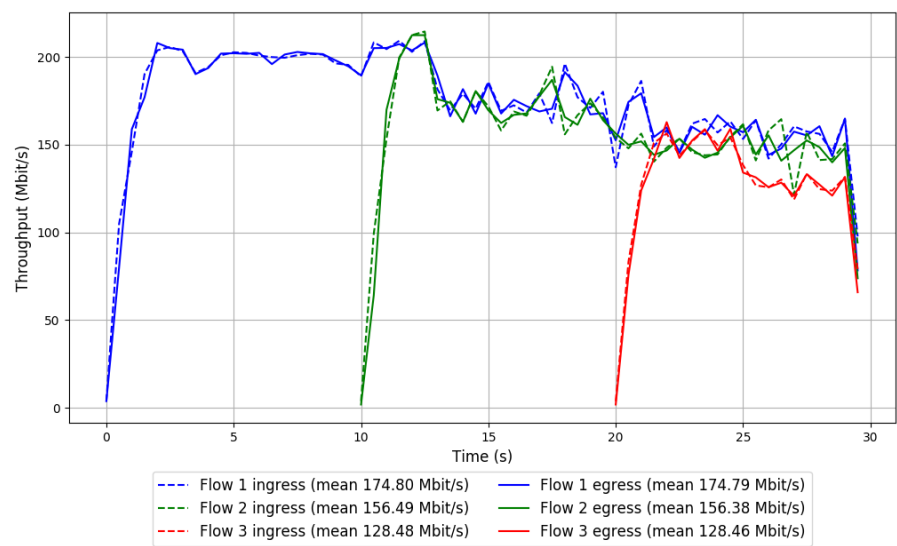
-- Flow 3:

Average throughput: 128.46 Mbit/s

95th percentile per-packet one-way delay: 54.797 ms

Loss rate: 1.07%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2017-12-06 05:02:30

End at: 2017-12-06 05:03:00

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 325.98 Mbit/s

95th percentile per-packet one-way delay: 55.966 ms

Loss rate: 0.50%

-- Flow 1:

Average throughput: 172.89 Mbit/s

95th percentile per-packet one-way delay: 55.164 ms

Loss rate: 0.31%

-- Flow 2:

Average throughput: 164.88 Mbit/s

95th percentile per-packet one-way delay: 56.296 ms

Loss rate: 0.59%

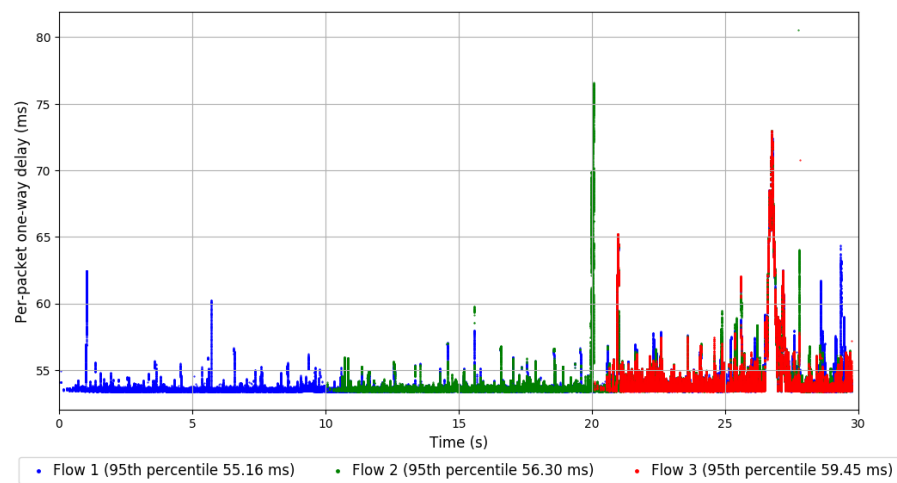
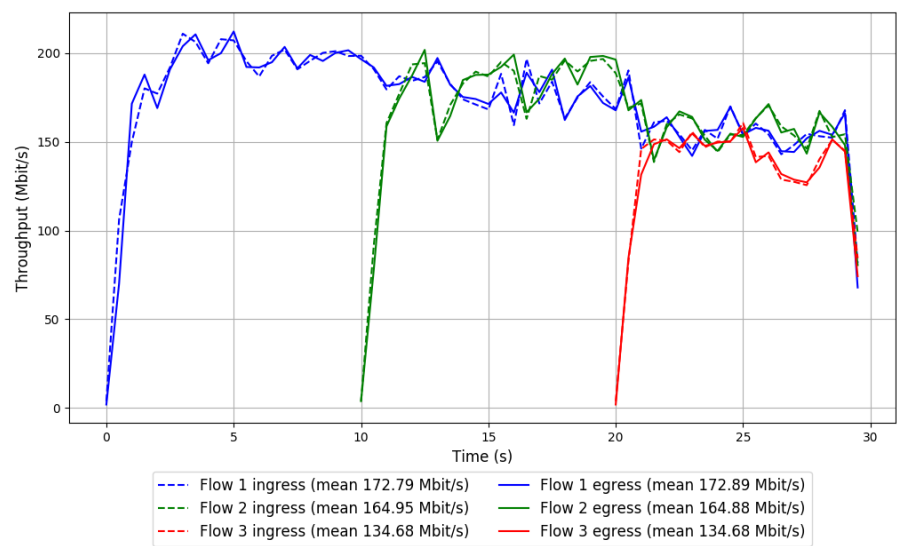
-- Flow 3:

Average throughput: 134.68 Mbit/s

95th percentile per-packet one-way delay: 59.448 ms

Loss rate: 1.05%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2017-12-06 05:14:33

End at: 2017-12-06 05:15:03

Below is generated by plot.py at 2017-12-06 08:42:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 335.04 Mbit/s

95th percentile per-packet one-way delay: 54.359 ms

Loss rate: 0.45%

-- Flow 1:

Average throughput: 177.89 Mbit/s

95th percentile per-packet one-way delay: 53.899 ms

Loss rate: 0.30%

-- Flow 2:

Average throughput: 166.43 Mbit/s

95th percentile per-packet one-way delay: 54.488 ms

Loss rate: 0.48%

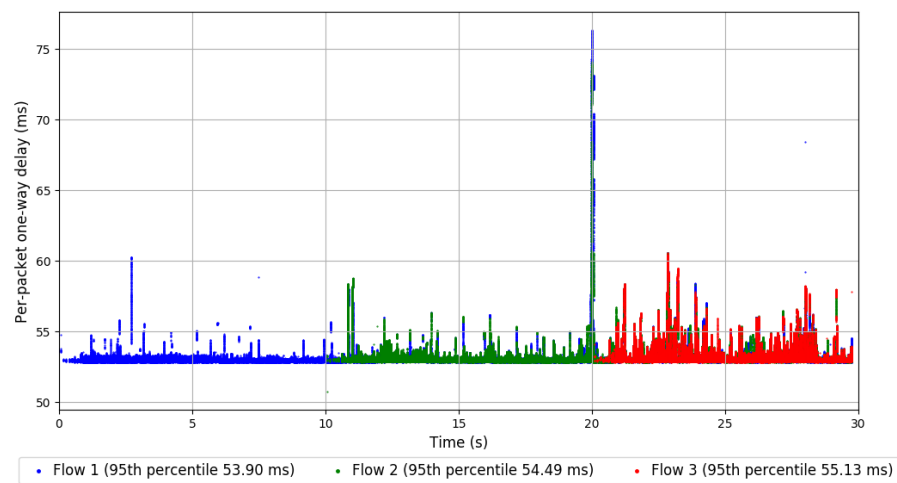
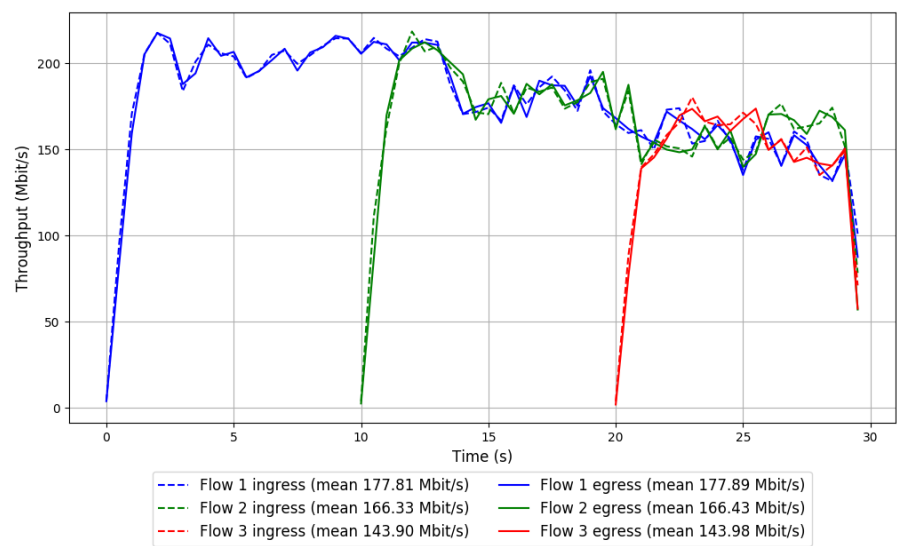
-- Flow 3:

Average throughput: 143.98 Mbit/s

95th percentile per-packet one-way delay: 55.130 ms

Loss rate: 0.95%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2017-12-06 05:26:42

End at: 2017-12-06 05:27:12

Below is generated by plot.py at 2017-12-06 08:42:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 329.29 Mbit/s

95th percentile per-packet one-way delay: 54.300 ms

Loss rate: 0.53%

-- Flow 1:

Average throughput: 176.76 Mbit/s

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

Loss rate: 0.34%

-- Flow 2:

Average throughput: 161.66 Mbit/s

95th percentile per-packet one-way delay: 54.523 ms

Loss rate: 0.48%

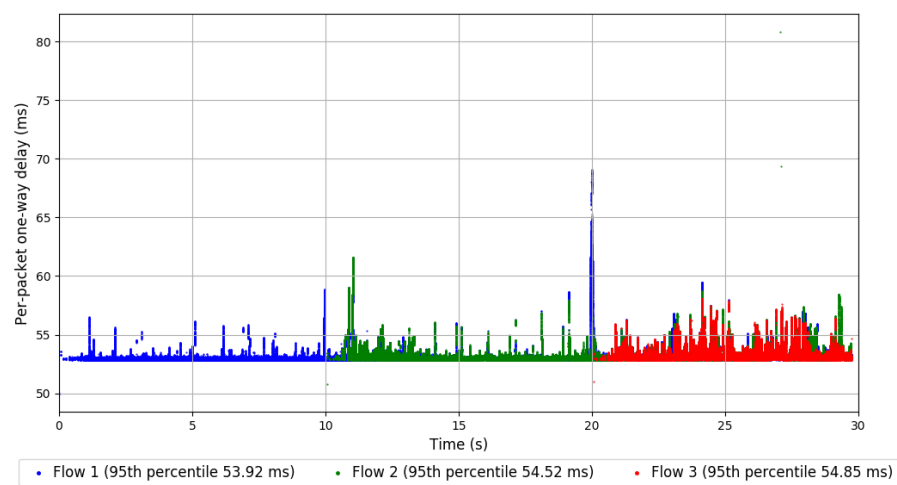
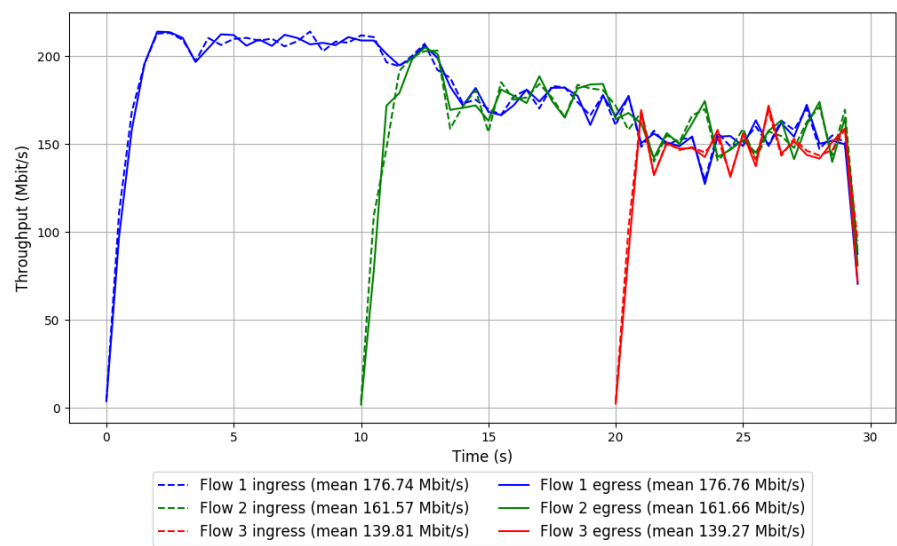
-- Flow 3:

Average throughput: 139.27 Mbit/s

95th percentile per-packet one-way delay: 54.849 ms

Loss rate: 1.38%

Run 10: Report of Indigo — Data Link

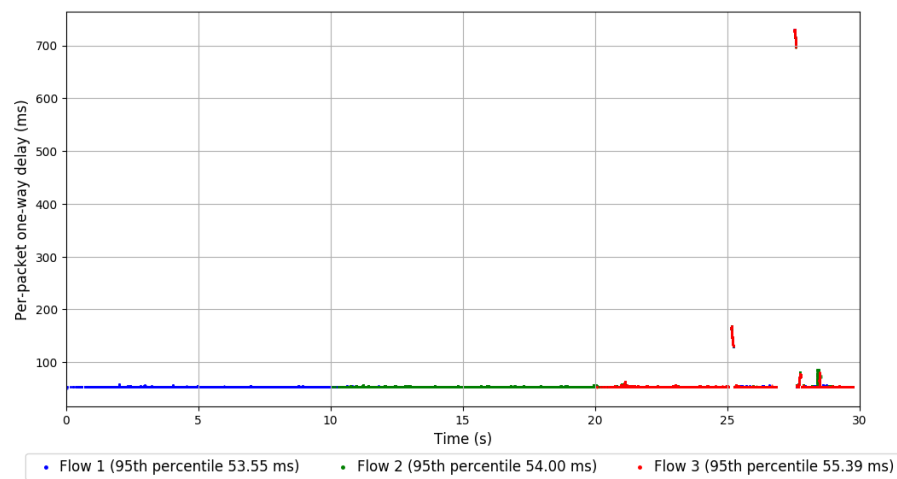
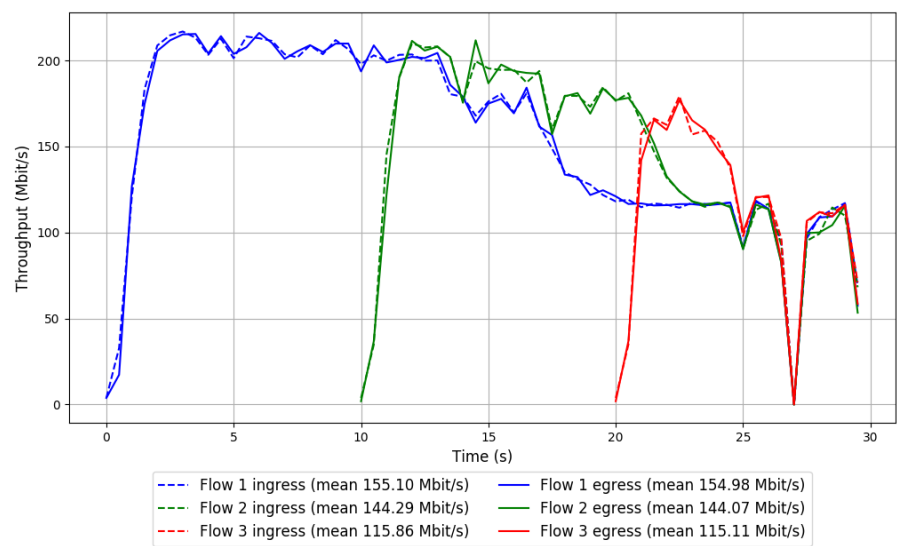


```
Run 1: Statistics of Indigo-calib

Start at: 2017-12-06 03:31:42
End at: 2017-12-06 03:32:12

# Below is generated by plot.py at 2017-12-06 08:42:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 287.89 Mbit/s
95th percentile per-packet one-way delay: 53.871 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 154.98 Mbit/s
95th percentile per-packet one-way delay: 53.551 ms
Loss rate: 0.42%
-- Flow 2:
Average throughput: 144.07 Mbit/s
95th percentile per-packet one-way delay: 53.997 ms
Loss rate: 0.67%
-- Flow 3:
Average throughput: 115.11 Mbit/s
95th percentile per-packet one-way delay: 55.390 ms
Loss rate: 1.71%
```

Run 1: Report of Indigo-calib — Data Link

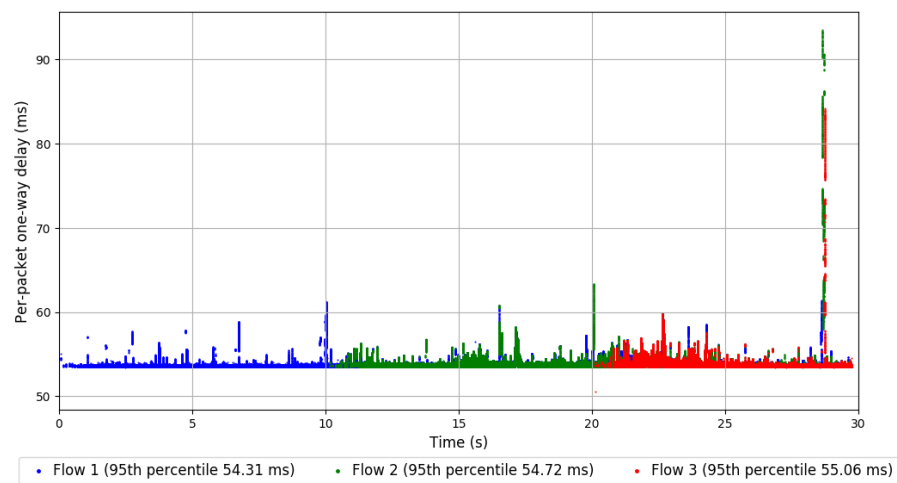
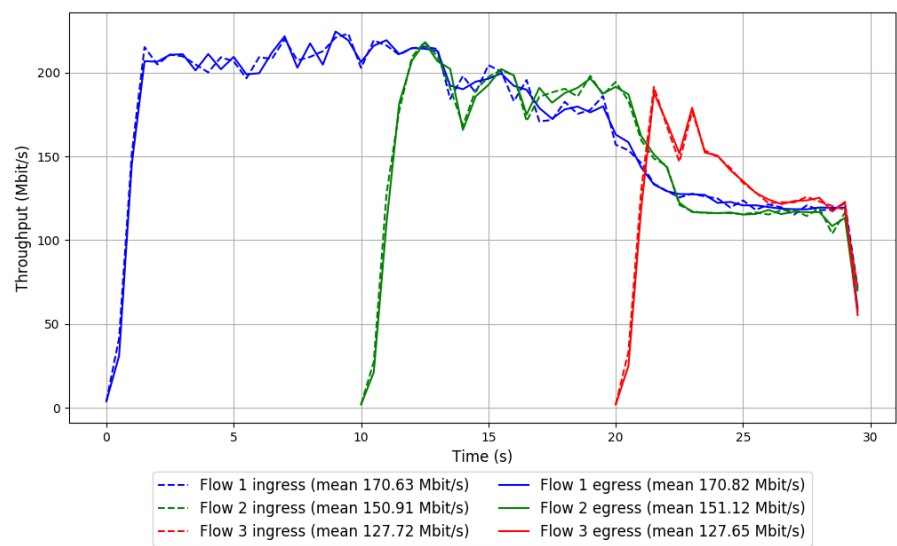


```
Run 2: Statistics of Indigo-calib

Start at: 2017-12-06 03:44:17
End at: 2017-12-06 03:44:47

# Below is generated by plot.py at 2017-12-06 08:43:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 311.90 Mbit/s
95th percentile per-packet one-way delay: 54.573 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 170.82 Mbit/s
95th percentile per-packet one-way delay: 54.312 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 151.12 Mbit/s
95th percentile per-packet one-way delay: 54.724 ms
Loss rate: 0.41%
-- Flow 3:
Average throughput: 127.65 Mbit/s
95th percentile per-packet one-way delay: 55.056 ms
Loss rate: 1.06%
```

Run 2: Report of Indigo-calib — Data Link

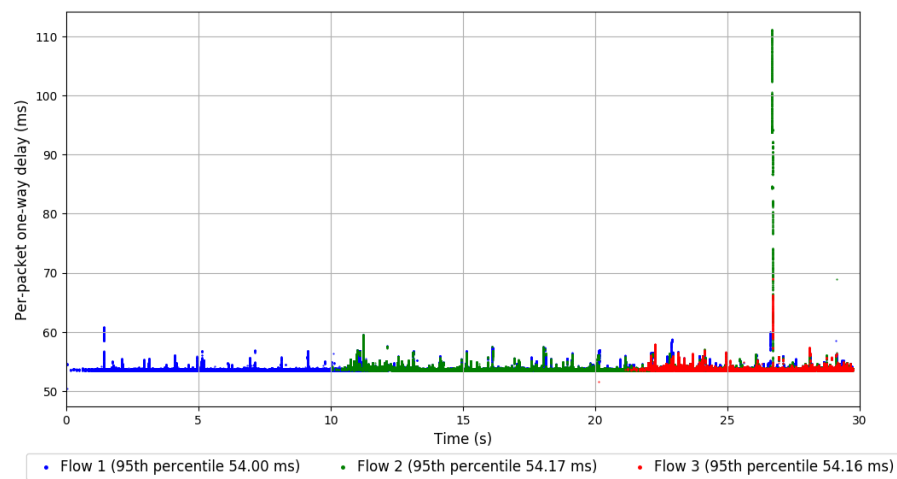
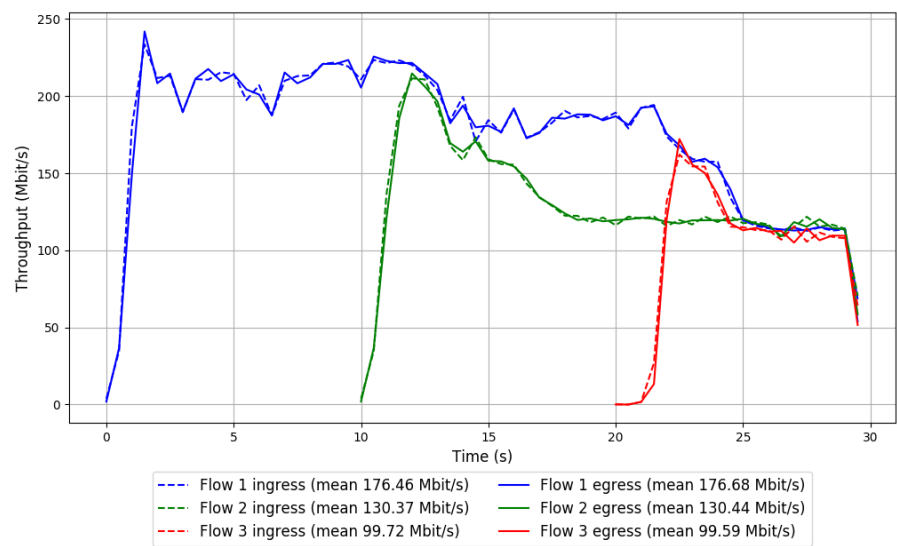


```
Run 3: Statistics of Indigo-calib

Start at: 2017-12-06 03:56:32
End at: 2017-12-06 03:57:02

# Below is generated by plot.py at 2017-12-06 08:43:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 295.24 Mbit/s
95th percentile per-packet one-way delay: 54.076 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 176.68 Mbit/s
95th percentile per-packet one-way delay: 54.001 ms
Loss rate: 0.24%
-- Flow 2:
Average throughput: 130.44 Mbit/s
95th percentile per-packet one-way delay: 54.169 ms
Loss rate: 0.49%
-- Flow 3:
Average throughput: 99.59 Mbit/s
95th percentile per-packet one-way delay: 54.163 ms
Loss rate: 1.24%
```


Run 3: Report of Indigo-calib — Data Link



Run 4: Statistics of Indigo-calib

Start at: 2017-12-06 04:08:31

End at: 2017-12-06 04:09:01

Below is generated by plot.py at 2017-12-06 08:43:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 301.34 Mbit/s

95th percentile per-packet one-way delay: 53.988 ms

Loss rate: 0.41%

-- Flow 1:

Average throughput: 161.79 Mbit/s

95th percentile per-packet one-way delay: 53.882 ms

Loss rate: 0.24%

-- Flow 2:

Average throughput: 149.17 Mbit/s

95th percentile per-packet one-way delay: 54.099 ms

Loss rate: 0.42%

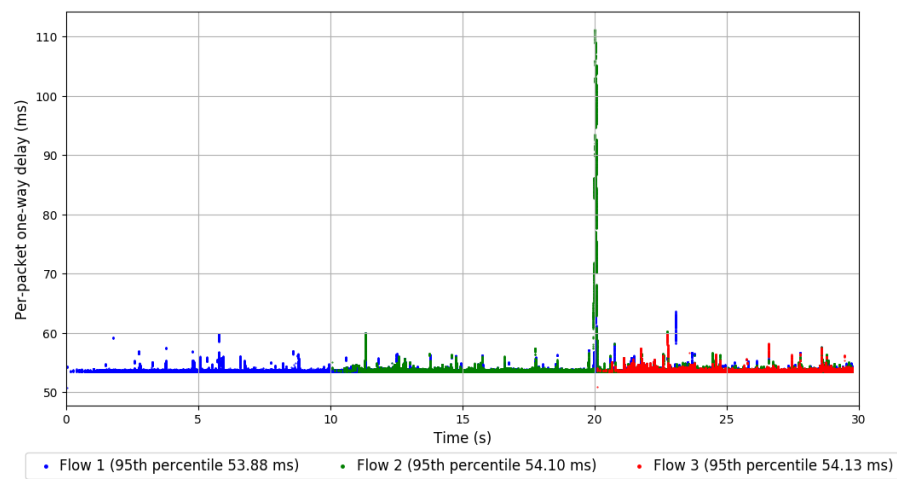
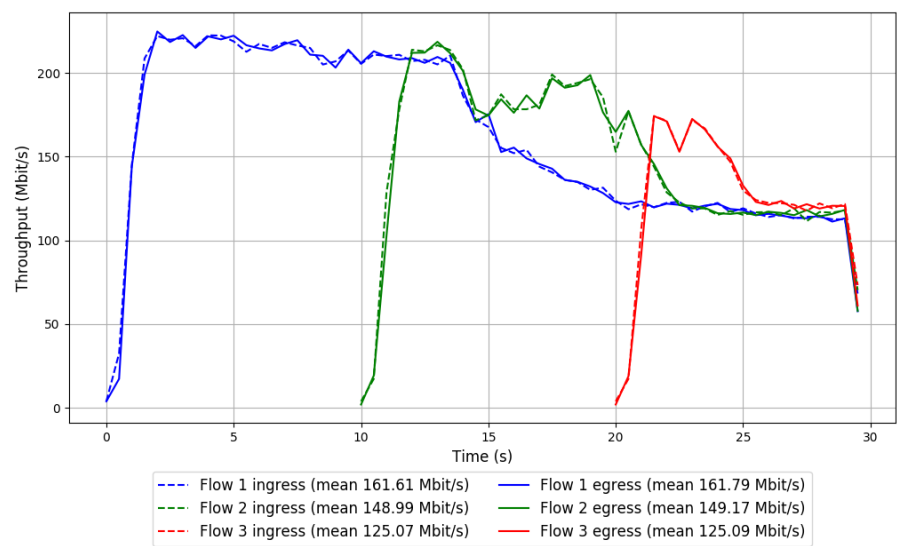
-- Flow 3:

Average throughput: 125.09 Mbit/s

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

Loss rate: 1.07%

Run 4: Report of Indigo-calib — Data Link



Run 5: Statistics of Indigo-calib

Start at: 2017-12-06 04:21:03

End at: 2017-12-06 04:21:33

Below is generated by plot.py at 2017-12-06 08:44:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 301.02 Mbit/s

95th percentile per-packet one-way delay: 54.072 ms

Loss rate: 0.49%

-- Flow 1:

Average throughput: 156.18 Mbit/s

95th percentile per-packet one-way delay: 53.903 ms

Loss rate: 0.27%

-- Flow 2:

Average throughput: 141.01 Mbit/s

95th percentile per-packet one-way delay: 54.095 ms

Loss rate: 0.43%

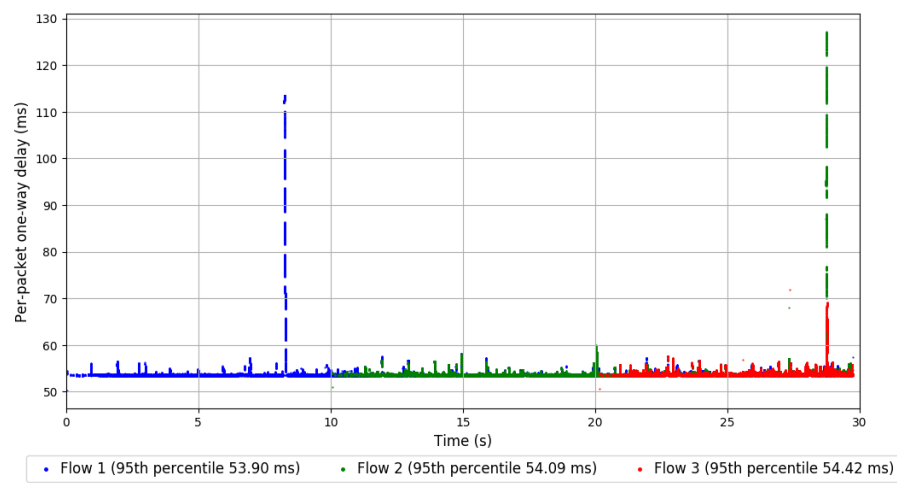
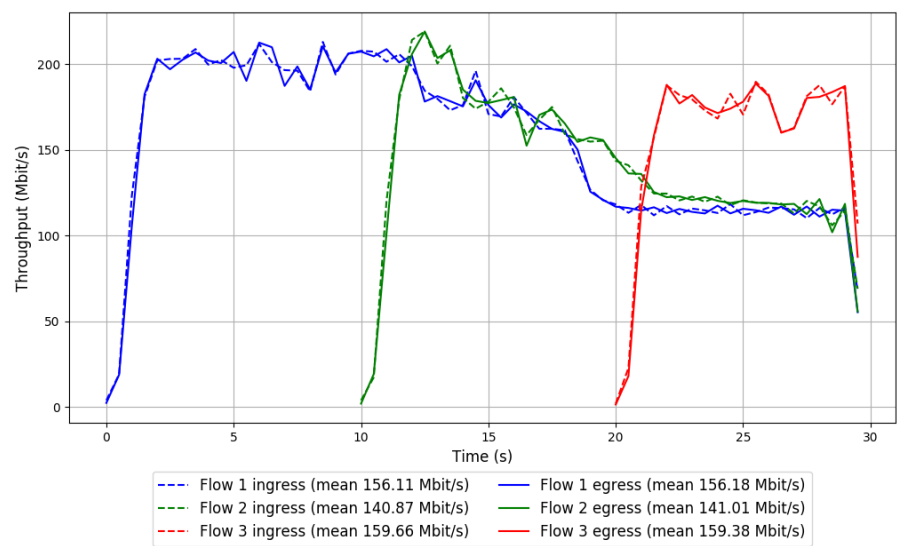
-- Flow 3:

Average throughput: 159.38 Mbit/s

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

Loss rate: 1.24%

Run 5: Report of Indigo-calib — Data Link

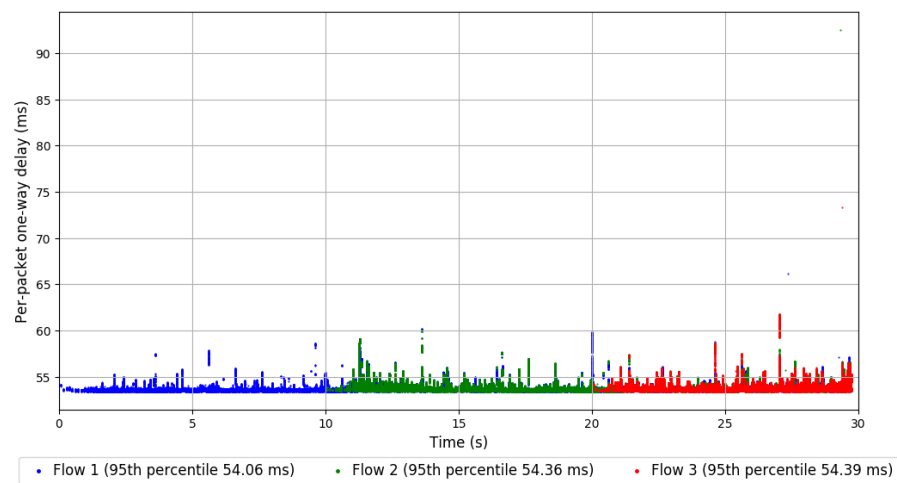
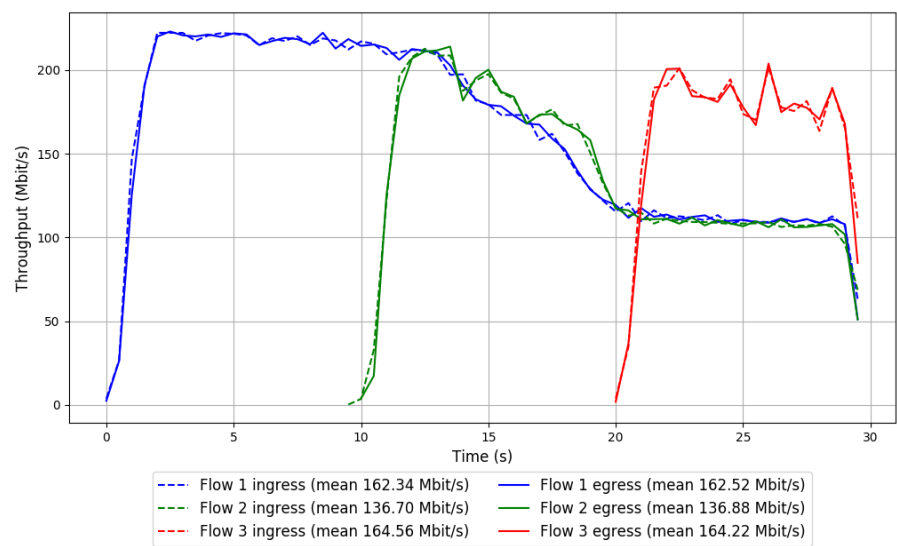


```
Run 6: Statistics of Indigo-calib

Start at: 2017-12-06 04:33:09
End at: 2017-12-06 04:33:39

# Below is generated by plot.py at 2017-12-06 08:44:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 306.77 Mbit/s
95th percentile per-packet one-way delay: 54.206 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 162.52 Mbit/s
95th percentile per-packet one-way delay: 54.059 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 136.88 Mbit/s
95th percentile per-packet one-way delay: 54.358 ms
Loss rate: 0.42%
-- Flow 3:
Average throughput: 164.22 Mbit/s
95th percentile per-packet one-way delay: 54.390 ms
Loss rate: 1.30%
```

Run 6: Report of Indigo-calib — Data Link

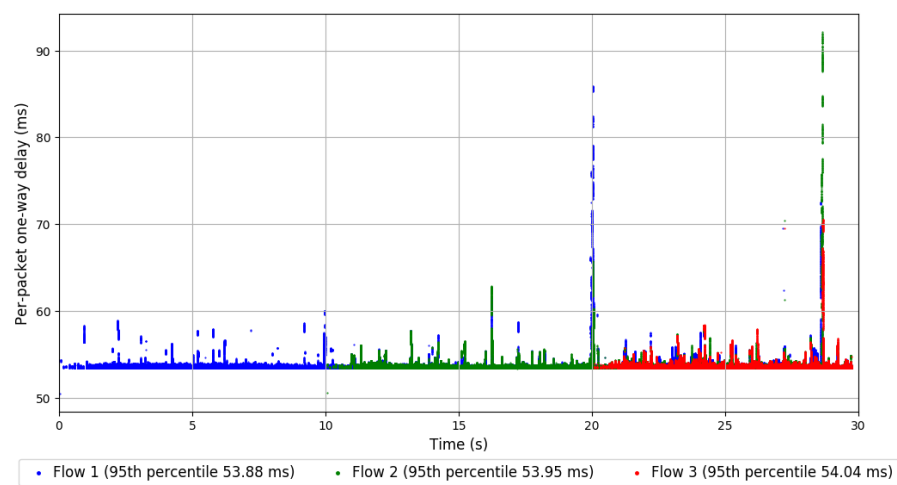
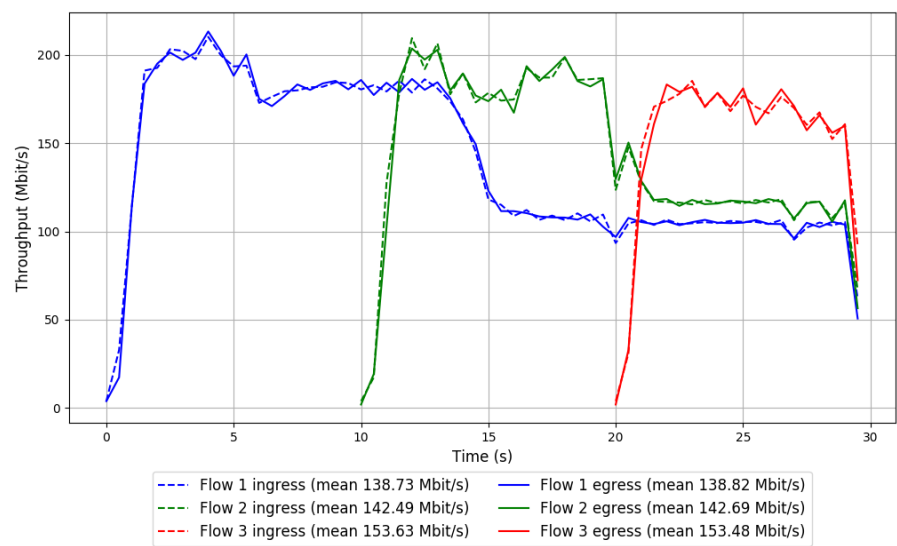


```
Run 7: Statistics of Indigo-calib

Start at: 2017-12-06 04:45:19
End at: 2017-12-06 04:45:49

# Below is generated by plot.py at 2017-12-06 08:45:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 283.30 Mbit/s
95th percentile per-packet one-way delay: 53.935 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 138.82 Mbit/s
95th percentile per-packet one-way delay: 53.880 ms
Loss rate: 0.28%
-- Flow 2:
Average throughput: 142.69 Mbit/s
95th percentile per-packet one-way delay: 53.953 ms
Loss rate: 0.41%
-- Flow 3:
Average throughput: 153.48 Mbit/s
95th percentile per-packet one-way delay: 54.039 ms
Loss rate: 1.18%
```


Run 7: Report of Indigo-calib — Data Link



Run 8: Statistics of Indigo-calib

Start at: 2017-12-06 04:57:33

End at: 2017-12-06 04:58:03

Below is generated by plot.py at 2017-12-06 08:45:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 303.04 Mbit/s

95th percentile per-packet one-way delay: 54.052 ms

Loss rate: 0.41%

-- Flow 1:

Average throughput: 155.83 Mbit/s

95th percentile per-packet one-way delay: 53.881 ms

Loss rate: 0.27%

-- Flow 2:

Average throughput: 159.42 Mbit/s

95th percentile per-packet one-way delay: 54.265 ms

Loss rate: 0.38%

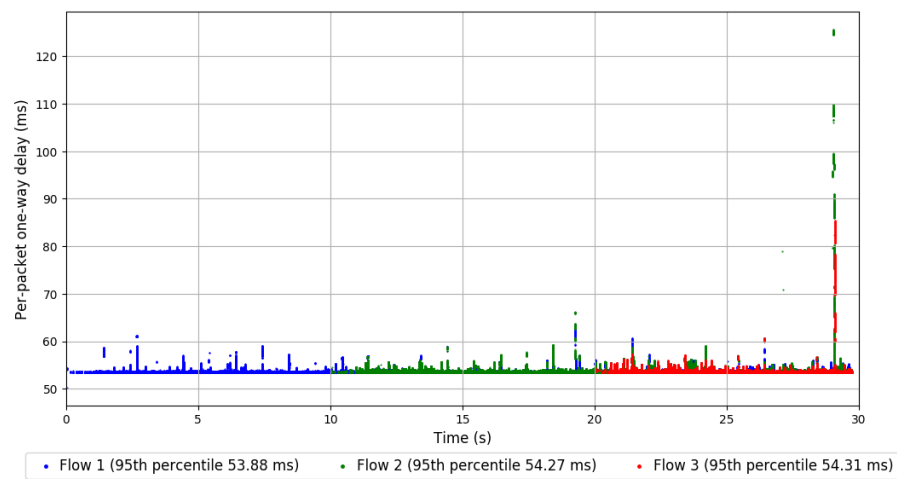
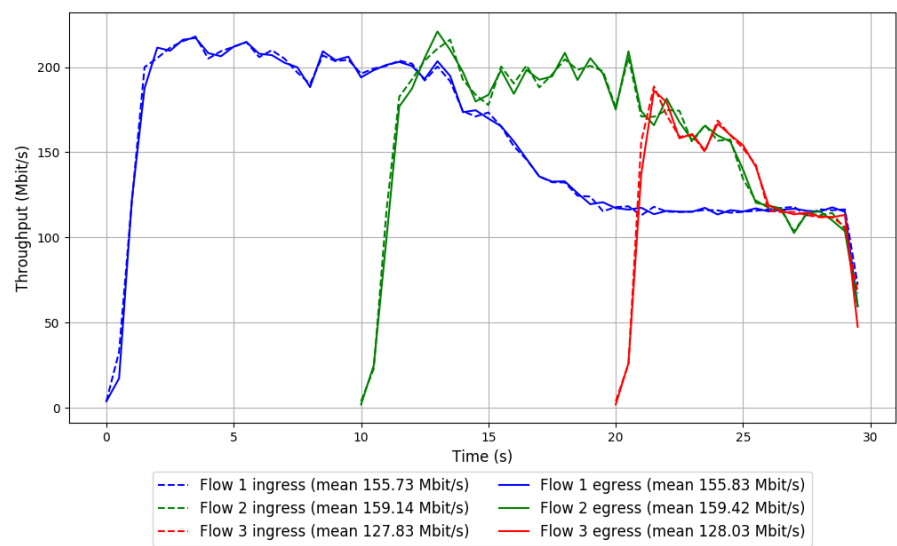
-- Flow 3:

Average throughput: 128.03 Mbit/s

95th percentile per-packet one-way delay: 54.309 ms

Loss rate: 1.00%

Run 8: Report of Indigo-calib — Data Link



Run 9: Statistics of Indigo-calib

Start at: 2017-12-06 05:09:23

End at: 2017-12-06 05:09:53

Below is generated by plot.py at 2017-12-06 08:45:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 328.16 Mbit/s

95th percentile per-packet one-way delay: 54.396 ms

Loss rate: 0.41%

-- Flow 1:

Average throughput: 193.43 Mbit/s

95th percentile per-packet one-way delay: 54.279 ms

Loss rate: 0.29%

-- Flow 2:

Average throughput: 144.01 Mbit/s

95th percentile per-packet one-way delay: 54.481 ms

Loss rate: 0.39%

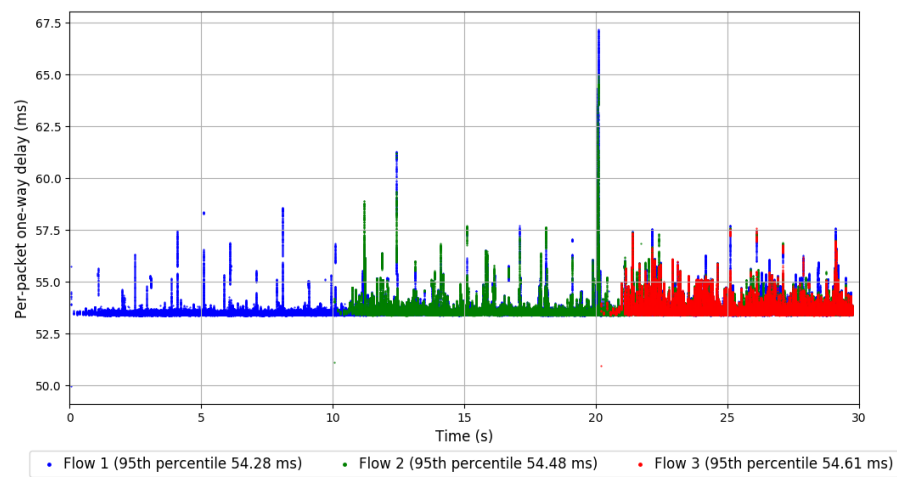
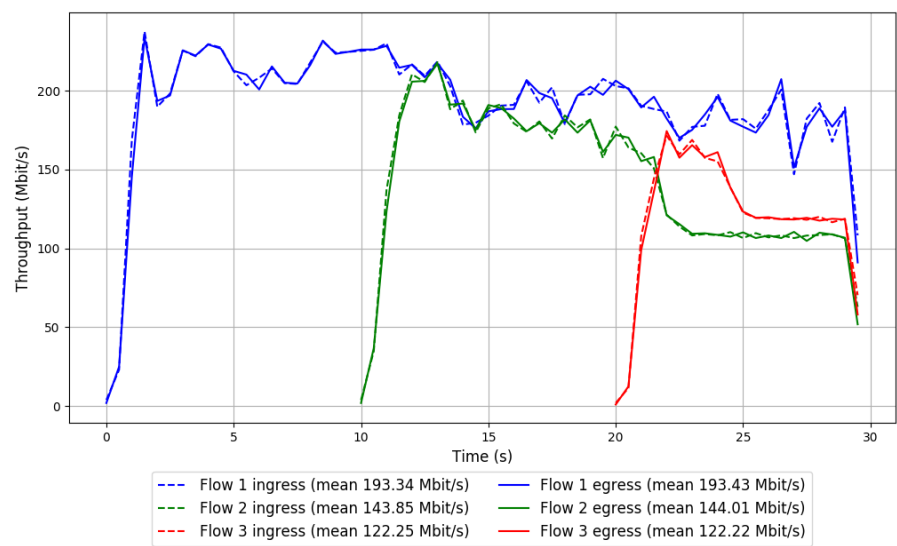
-- Flow 3:

Average throughput: 122.22 Mbit/s

95th percentile per-packet one-way delay: 54.609 ms

Loss rate: 1.05%

Run 9: Report of Indigo-calib — Data Link



Run 10: Statistics of Indigo-calib

Start at: 2017-12-06 05:21:33

End at: 2017-12-06 05:22:03

Below is generated by plot.py at 2017-12-06 08:45:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 306.22 Mbit/s

95th percentile per-packet one-way delay: 53.564 ms

Loss rate: 0.40%

-- Flow 1:

Average throughput: 170.70 Mbit/s

95th percentile per-packet one-way delay: 53.486 ms

Loss rate: 0.24%

-- Flow 2:

Average throughput: 150.31 Mbit/s

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

Loss rate: 0.41%

-- Flow 3:

Average throughput: 111.07 Mbit/s

95th percentile per-packet one-way delay: 53.469 ms

Loss rate: 1.15%

Run 10: Report of Indigo-calib — Data Link

