

Pantheon Report

Generated at 2017-12-01 07:28:56 (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.

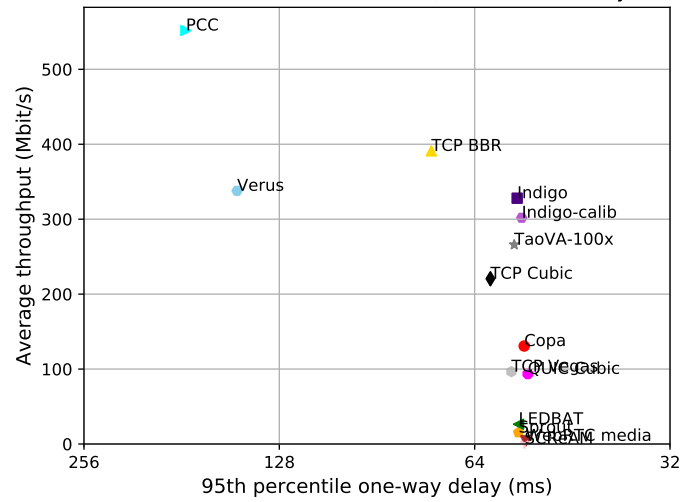
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

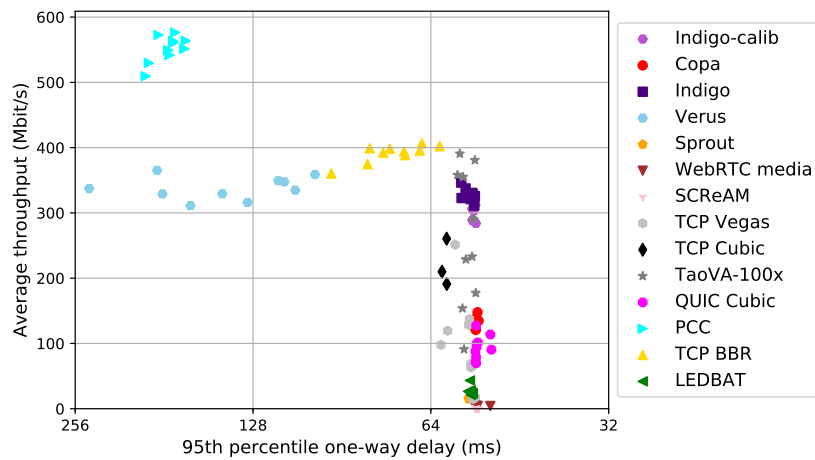
Git summary:

```
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 @ f1a14bffe749737437f61b1eaaeb30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/webrtc @ a488197ddd041ace68a42849b2540ad834825f42
```

test from GCE 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	200.70	198.21	178.25	71.57	74.76	78.95	0.41	0.56	1.31
TCP Cubic	3	129.69	91.40	81.77	60.37	59.83	60.43	0.74	1.24	1.91
LEDBAT	10	13.87	14.58	8.77	54.77	54.74	54.57	0.71	0.85	2.11
PCC	10	515.95	26.82	55.23	178.54	176.00	166.02	2.06	1.85	2.36
QUIC Cubic	10	50.91	47.82	33.54	52.48	52.98	52.38	0.39	0.71	1.23
SCReAM	10	0.21	0.21	0.22	53.08	51.66	52.28	0.30	0.48	1.11
WebRTC media	10	2.24	1.43	0.58	53.08	52.97	53.75	0.44	0.65	1.62
Sprout	10	7.74	7.66	7.47	54.79	54.73	54.81	0.41	0.63	1.15
TaoVA-100x	10	113.54	183.52	131.15	54.78	55.08	72.69	0.94	0.56	1.29
TCP Vegas	10	44.33	49.49	58.73	55.11	55.98	55.99	0.45	0.61	1.12
Verus	10	204.34	147.78	112.43	150.39	124.29	151.29	1.83	0.76	2.37
Copa	10	69.98	70.21	56.30	53.68	53.57	53.85	0.31	0.44	1.80
Indigo	10	176.20	164.27	132.08	54.59	55.32	55.69	0.32	0.49	1.18
Indigo-calib	10	163.29	140.97	139.37	53.98	54.30	54.49	0.31	0.46	1.17

Run 1: Statistics of TCP BBR

Start at: 2017-12-01 02:20:01

End at: 2017-12-01 02:20:31

Below is generated by plot.py at 2017-12-01 06:30:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 406.67 Mbit/s

95th percentile per-packet one-way delay: 66.270 ms

Loss rate: 0.61%

-- Flow 1:

Average throughput: 204.92 Mbit/s

95th percentile per-packet one-way delay: 64.790 ms

Loss rate: 0.41%

-- Flow 2:

Average throughput: 208.66 Mbit/s

95th percentile per-packet one-way delay: 67.084 ms

Loss rate: 0.57%

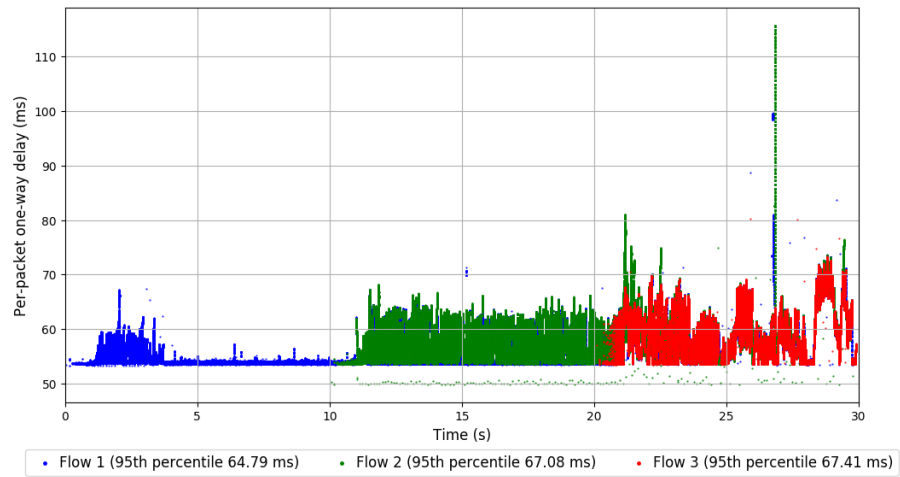
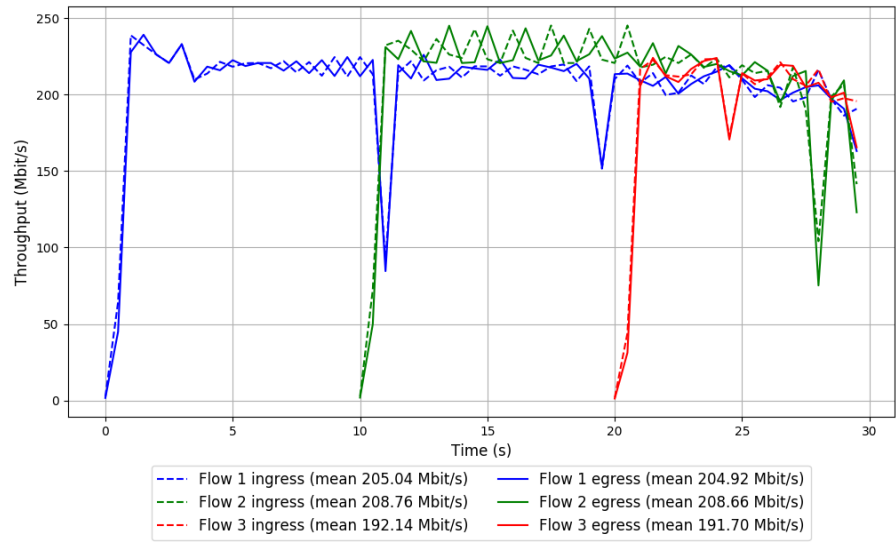
-- Flow 3:

Average throughput: 191.70 Mbit/s

95th percentile per-packet one-way delay: 67.413 ms

Loss rate: 1.34%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2017-12-01 02:32:17

End at: 2017-12-01 02:32:47

Below is generated by plot.py at 2017-12-01 06:30:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 360.23 Mbit/s

95th percentile per-packet one-way delay: 94.321 ms

Loss rate: 0.65%

-- Flow 1:

Average throughput: 190.76 Mbit/s

95th percentile per-packet one-way delay: 88.394 ms

Loss rate: 0.42%

-- Flow 2:

Average throughput: 176.31 Mbit/s

95th percentile per-packet one-way delay: 94.391 ms

Loss rate: 0.65%

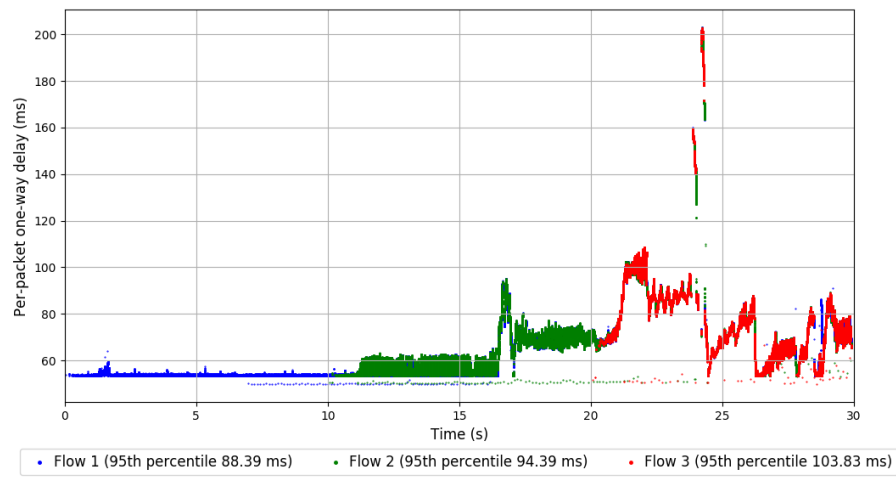
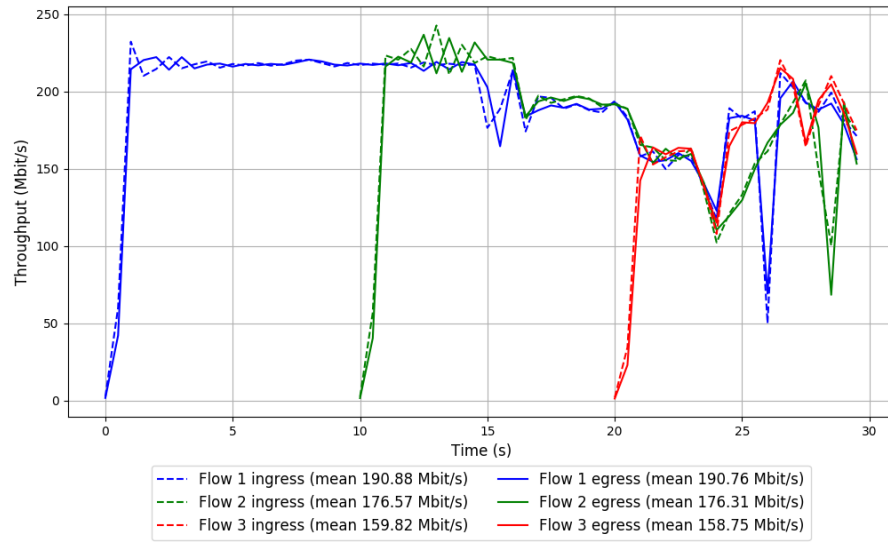
-- Flow 3:

Average throughput: 158.75 Mbit/s

95th percentile per-packet one-way delay: 103.829 ms

Loss rate: 1.50%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2017-12-01 02:44:19

End at: 2017-12-01 02:44:49

Below is generated by plot.py at 2017-12-01 06:30:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 395.36 Mbit/s

95th percentile per-packet one-way delay: 66.825 ms

Loss rate: 0.59%

-- Flow 1:

Average throughput: 205.35 Mbit/s

95th percentile per-packet one-way delay: 64.027 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 197.68 Mbit/s

95th percentile per-packet one-way delay: 67.085 ms

Loss rate: 0.59%

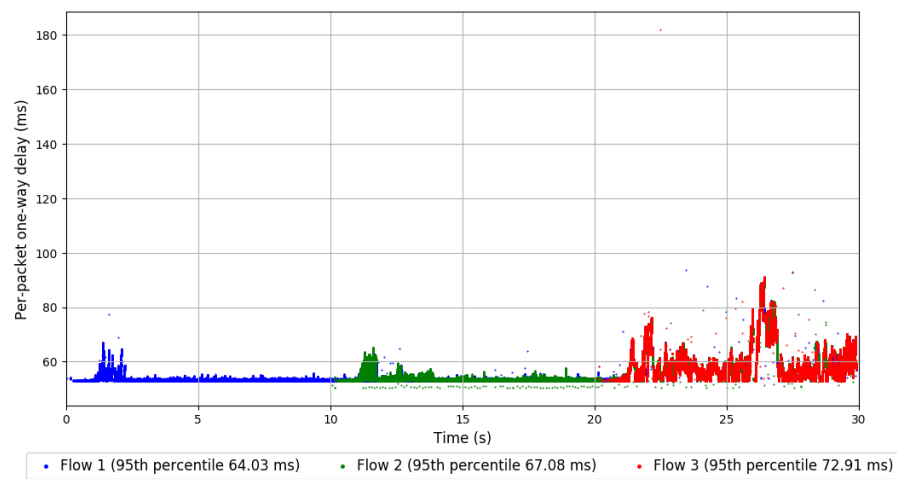
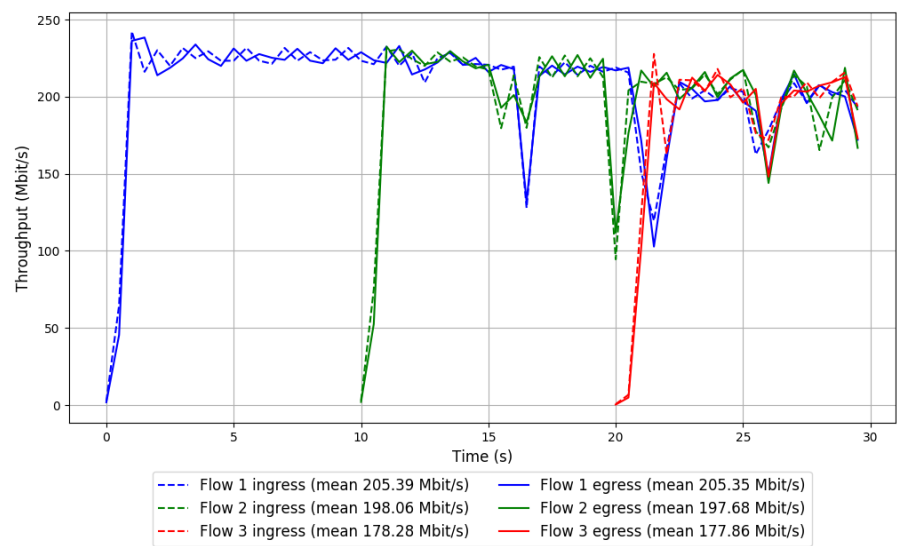
-- Flow 3:

Average throughput: 177.86 Mbit/s

95th percentile per-packet one-way delay: 72.905 ms

Loss rate: 1.32%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2017-12-01 02:56:42

End at: 2017-12-01 02:57:12

Below is generated by plot.py at 2017-12-01 06:30:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 374.69 Mbit/s

95th percentile per-packet one-way delay: 81.911 ms

Loss rate: 0.61%

-- Flow 1:

Average throughput: 191.43 Mbit/s

95th percentile per-packet one-way delay: 80.054 ms

Loss rate: 0.41%

-- Flow 2:

Average throughput: 192.05 Mbit/s

95th percentile per-packet one-way delay: 81.356 ms

Loss rate: 0.58%

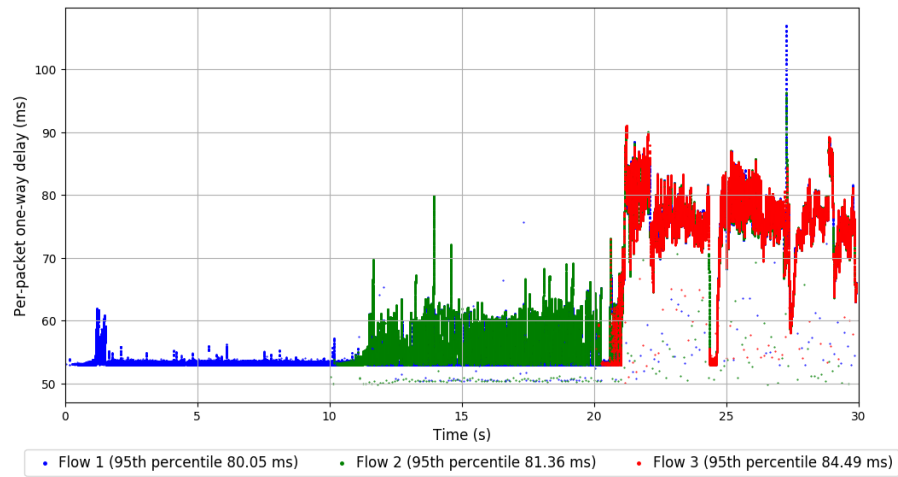
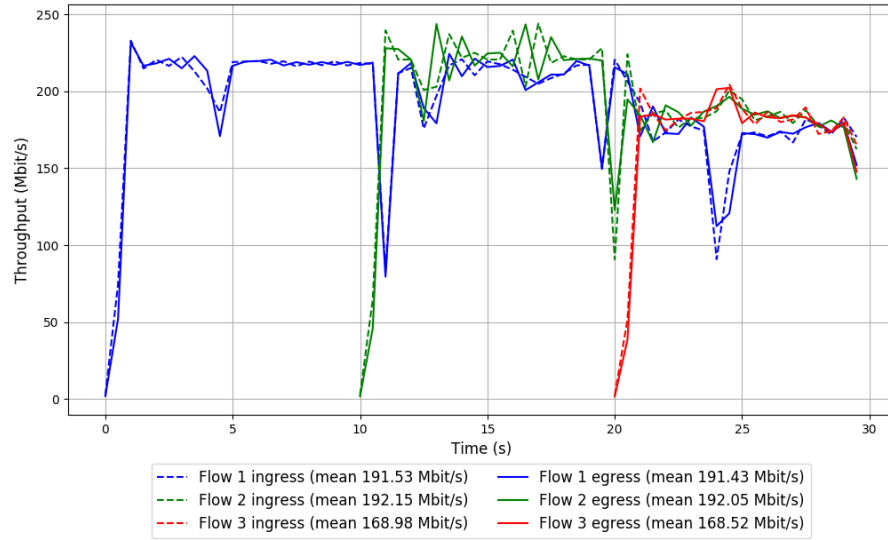
-- Flow 3:

Average throughput: 168.52 Mbit/s

95th percentile per-packet one-way delay: 84.488 ms

Loss rate: 1.37%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2017-12-01 03:08:59

End at: 2017-12-01 03:09:29

Below is generated by plot.py at 2017-12-01 06:30:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 388.47 Mbit/s

95th percentile per-packet one-way delay: 70.745 ms

Loss rate: 0.50%

-- Flow 1:

Average throughput: 197.51 Mbit/s

95th percentile per-packet one-way delay: 67.113 ms

Loss rate: 0.39%

-- Flow 2:

Average throughput: 197.07 Mbit/s

95th percentile per-packet one-way delay: 70.604 ms

Loss rate: 0.31%

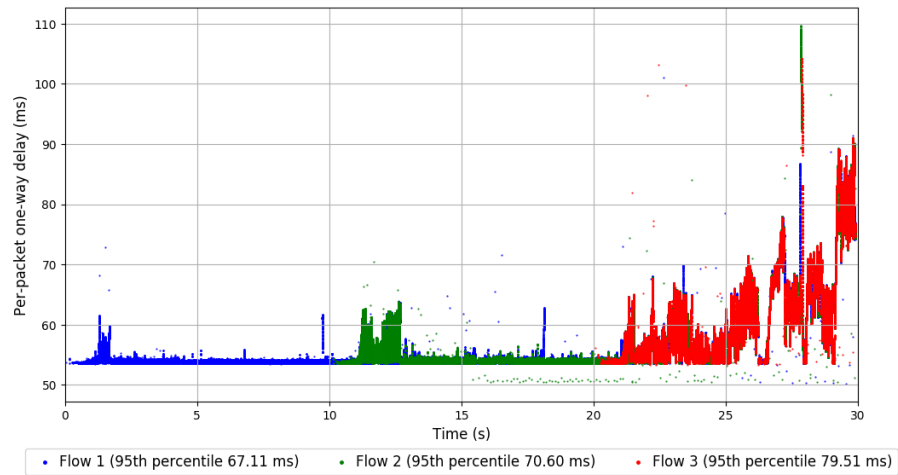
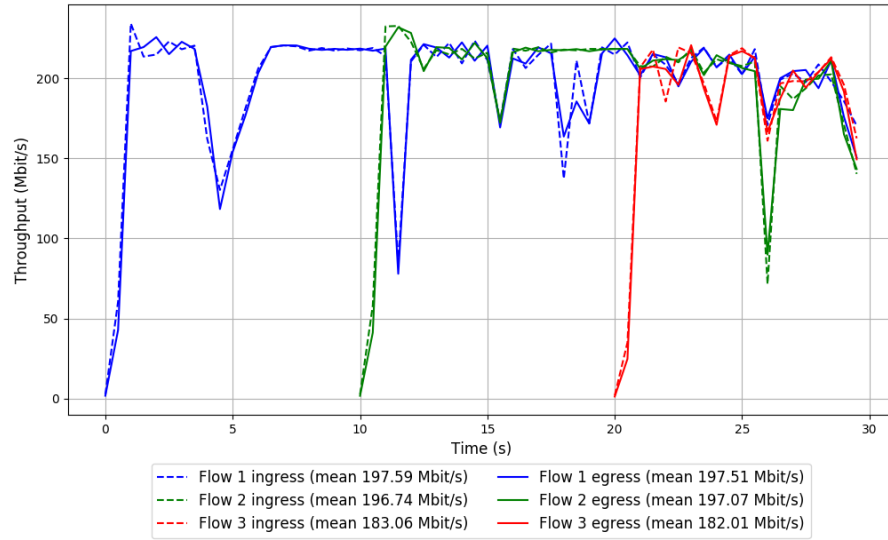
-- Flow 3:

Average throughput: 182.01 Mbit/s

95th percentile per-packet one-way delay: 79.508 ms

Loss rate: 1.29%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2017-12-01 03:21:08

End at: 2017-12-01 03:21:38

Below is generated by plot.py at 2017-12-01 06:30:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 398.92 Mbit/s

95th percentile per-packet one-way delay: 81.224 ms

Loss rate: 0.58%

-- Flow 1:

Average throughput: 198.84 Mbit/s

95th percentile per-packet one-way delay: 73.159 ms

Loss rate: 0.37%

-- Flow 2:

Average throughput: 213.46 Mbit/s

95th percentile per-packet one-way delay: 82.366 ms

Loss rate: 0.58%

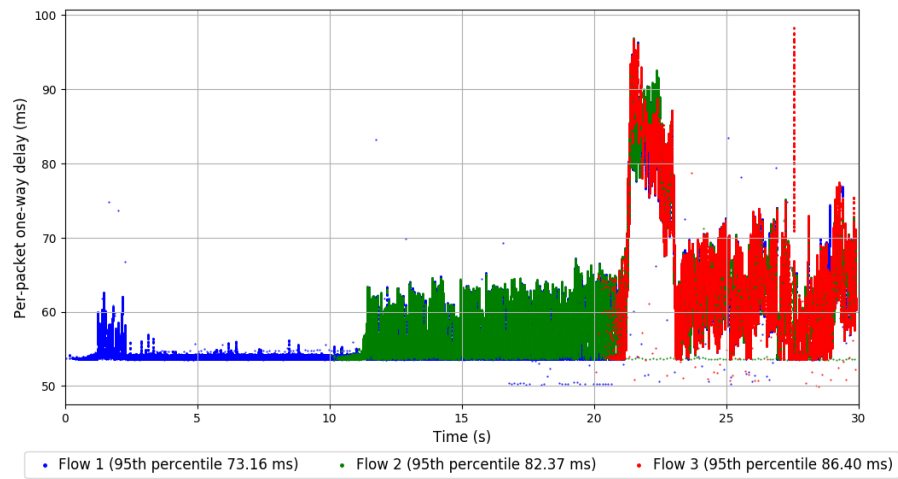
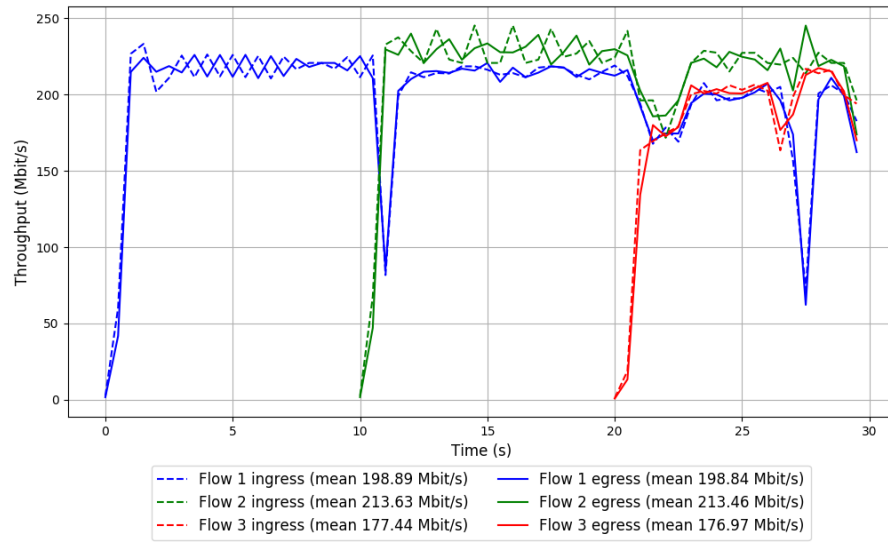
-- Flow 3:

Average throughput: 176.97 Mbit/s

95th percentile per-packet one-way delay: 86.397 ms

Loss rate: 1.30%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2017-12-01 03:33:30

End at: 2017-12-01 03:34:00

Below is generated by plot.py at 2017-12-01 06:30:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 398.29 Mbit/s

95th percentile per-packet one-way delay: 75.093 ms

Loss rate: 0.59%

-- Flow 1:

Average throughput: 206.71 Mbit/s

95th percentile per-packet one-way delay: 71.656 ms

Loss rate: 0.39%

-- Flow 2:

Average throughput: 196.63 Mbit/s

95th percentile per-packet one-way delay: 74.941 ms

Loss rate: 0.59%

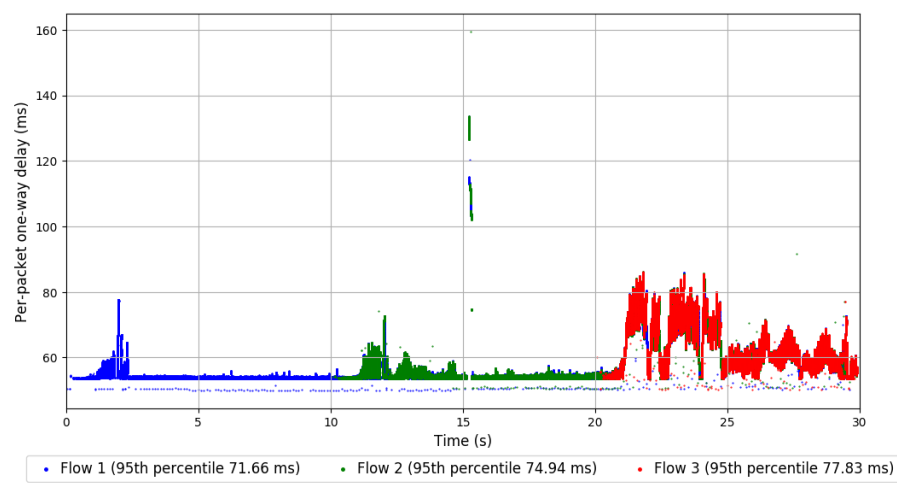
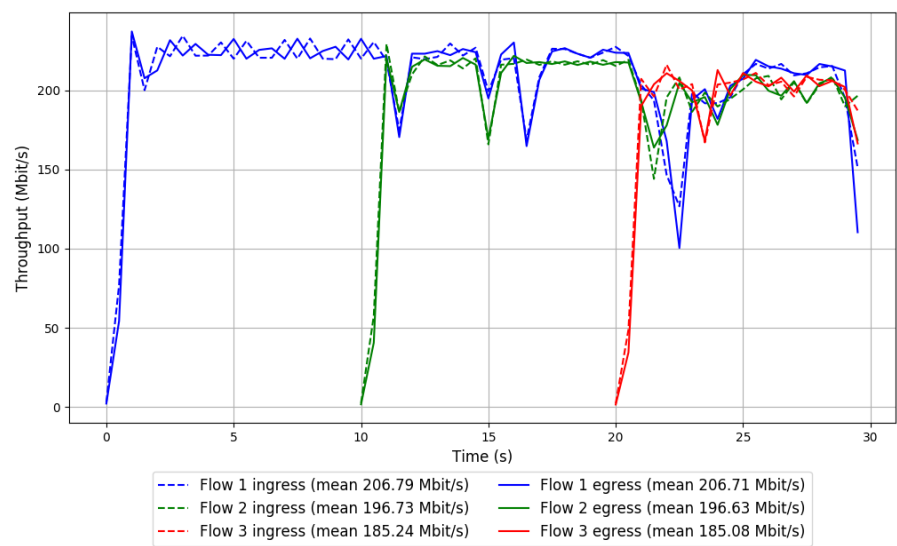
-- Flow 3:

Average throughput: 185.08 Mbit/s

95th percentile per-packet one-way delay: 77.828 ms

Loss rate: 1.24%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2017-12-01 03:45:32

End at: 2017-12-01 03:46:02

Below is generated by plot.py at 2017-12-01 06:30:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 394.23 Mbit/s

95th percentile per-packet one-way delay: 71.034 ms

Loss rate: 0.55%

-- Flow 1:

Average throughput: 201.37 Mbit/s

95th percentile per-packet one-way delay: 69.681 ms

Loss rate: 0.36%

-- Flow 2:

Average throughput: 199.24 Mbit/s

95th percentile per-packet one-way delay: 70.498 ms

Loss rate: 0.57%

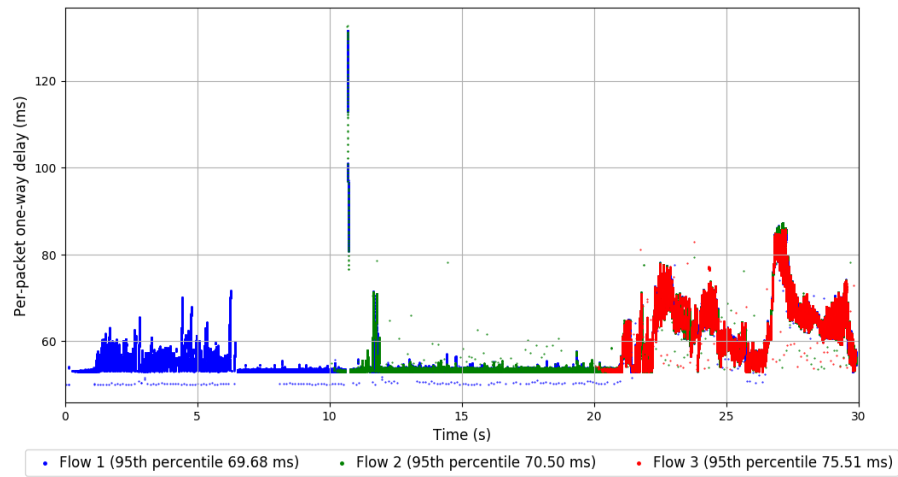
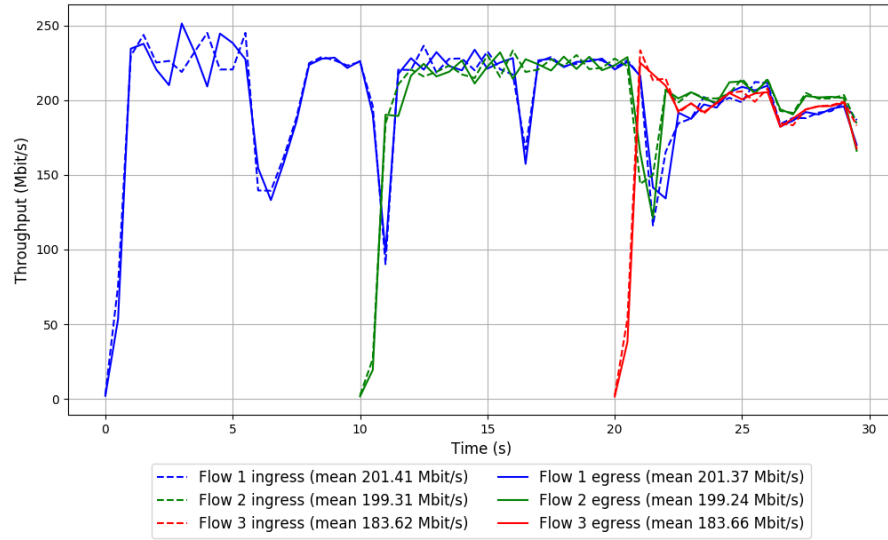
-- Flow 3:

Average throughput: 183.66 Mbit/s

95th percentile per-packet one-way delay: 75.507 ms

Loss rate: 1.12%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2017-12-01 03:57:31

End at: 2017-12-01 03:58:01

Below is generated by plot.py at 2017-12-01 06:37:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 402.13 Mbit/s

95th percentile per-packet one-way delay: 61.842 ms

Loss rate: 0.66%

-- Flow 1:

Average throughput: 208.72 Mbit/s

95th percentile per-packet one-way delay: 61.299 ms

Loss rate: 0.54%

-- Flow 2:

Average throughput: 199.10 Mbit/s

95th percentile per-packet one-way delay: 62.012 ms

Loss rate: 0.58%

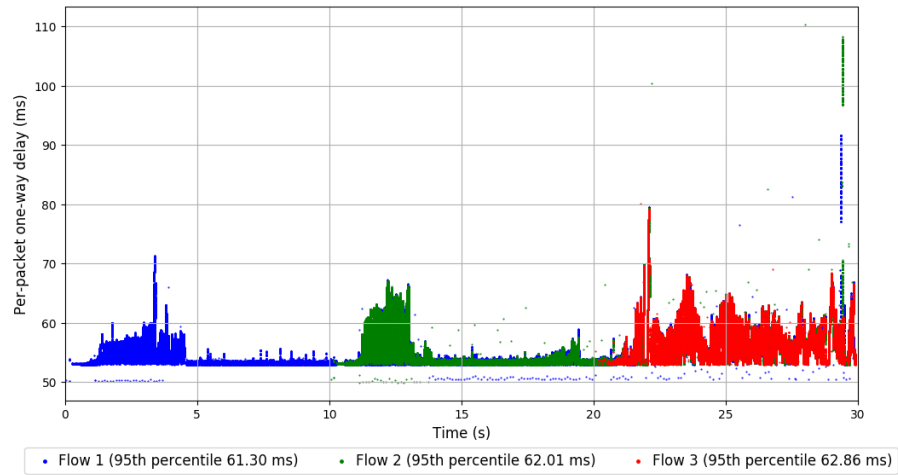
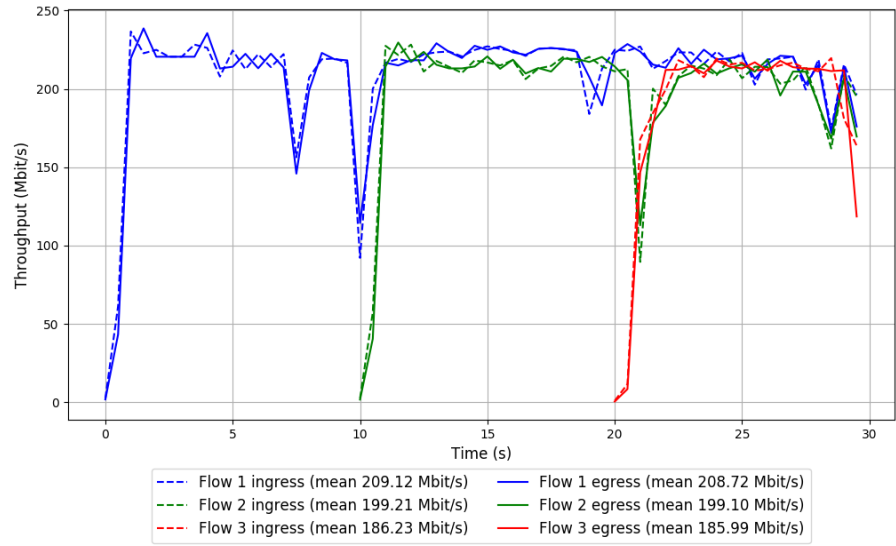
-- Flow 3:

Average throughput: 185.99 Mbit/s

95th percentile per-packet one-way delay: 62.861 ms

Loss rate: 1.23%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2017-12-01 04:10:07

End at: 2017-12-01 04:10:37

Below is generated by plot.py at 2017-12-01 06:37:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 392.27 Mbit/s

95th percentile per-packet one-way delay: 77.068 ms

Loss rate: 0.60%

-- Flow 1:

Average throughput: 201.40 Mbit/s

95th percentile per-packet one-way delay: 75.559 ms

Loss rate: 0.41%

-- Flow 2:

Average throughput: 201.89 Mbit/s

95th percentile per-packet one-way delay: 77.288 ms

Loss rate: 0.56%

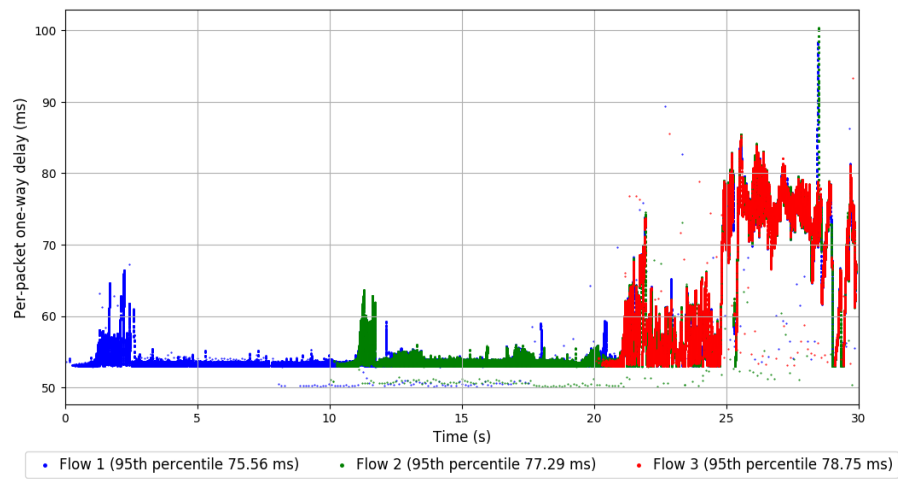
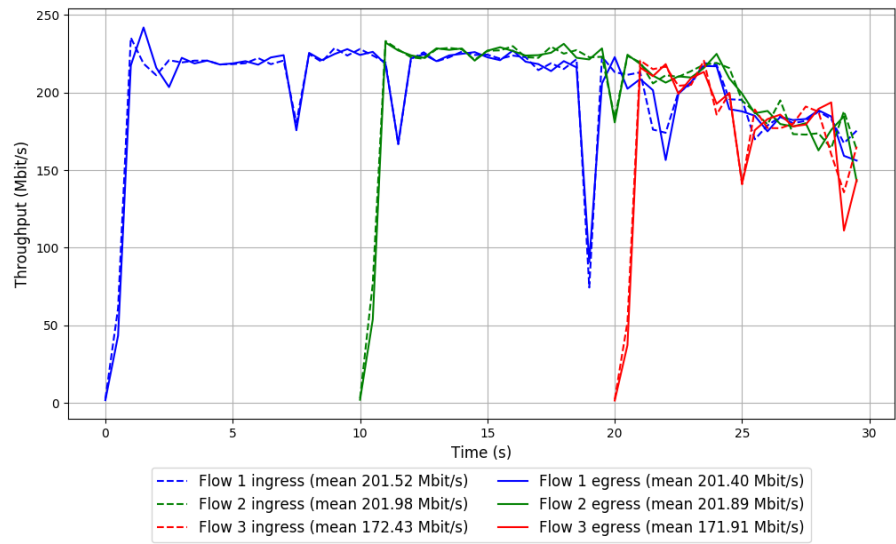
-- Flow 3:

Average throughput: 171.91 Mbit/s

95th percentile per-packet one-way delay: 78.755 ms

Loss rate: 1.35%

Run 10: Report of TCP BBR — Data Link

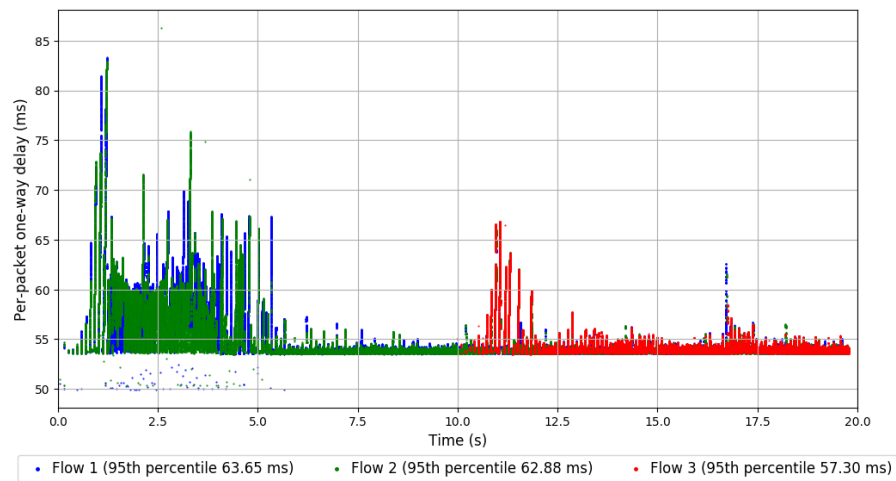
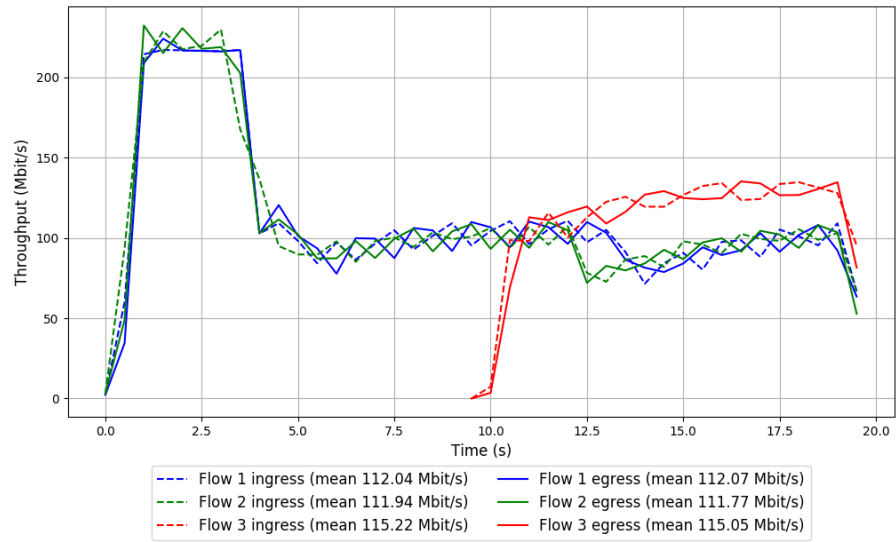


Run 1: Statistics of TCP Cubic

Start at: 2017-12-01 02:23:22

End at: 2017-12-01 02:23:52

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2017-12-01 02:35:32

End at: 2017-12-01 02:36:02

Below is generated by plot.py at 2017-12-01 06:37:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 209.97 Mbit/s

95th percentile per-packet one-way delay: 61.267 ms

Loss rate: 0.66%

-- Flow 1:

Average throughput: 137.81 Mbit/s

95th percentile per-packet one-way delay: 61.550 ms

Loss rate: 0.59%

-- Flow 2:

Average throughput: 106.14 Mbit/s

95th percentile per-packet one-way delay: 60.720 ms

Loss rate: 0.73%

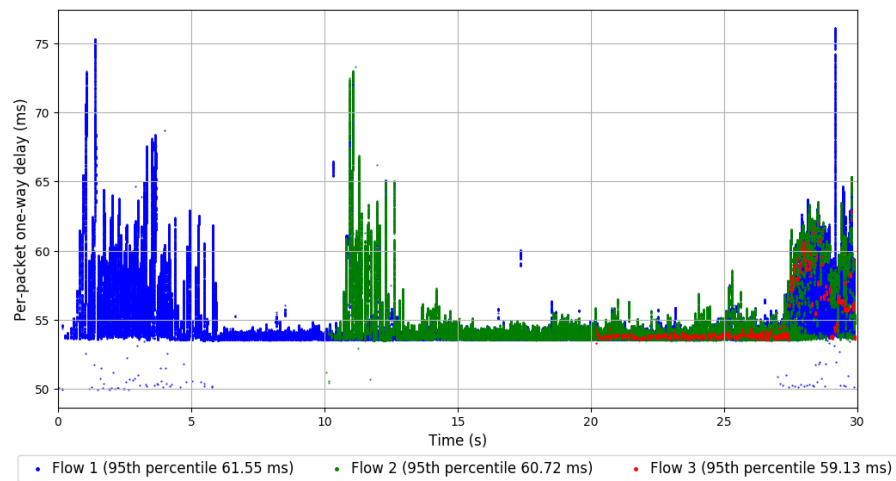
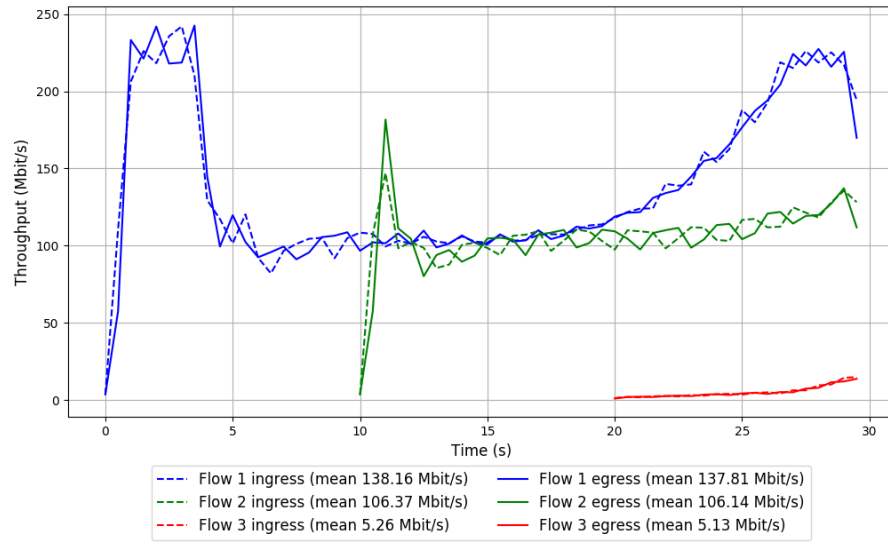
-- Flow 3:

Average throughput: 5.13 Mbit/s

95th percentile per-packet one-way delay: 59.130 ms

Loss rate: 3.70%

Run 2: Report of TCP Cubic — Data Link

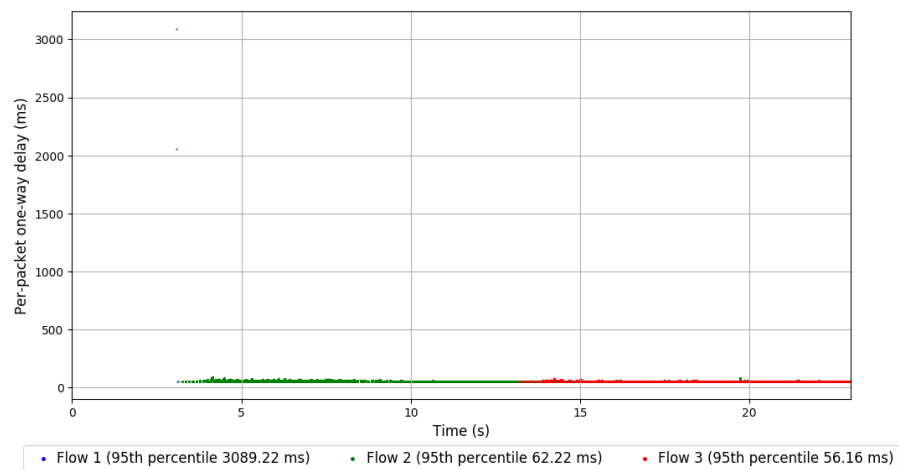
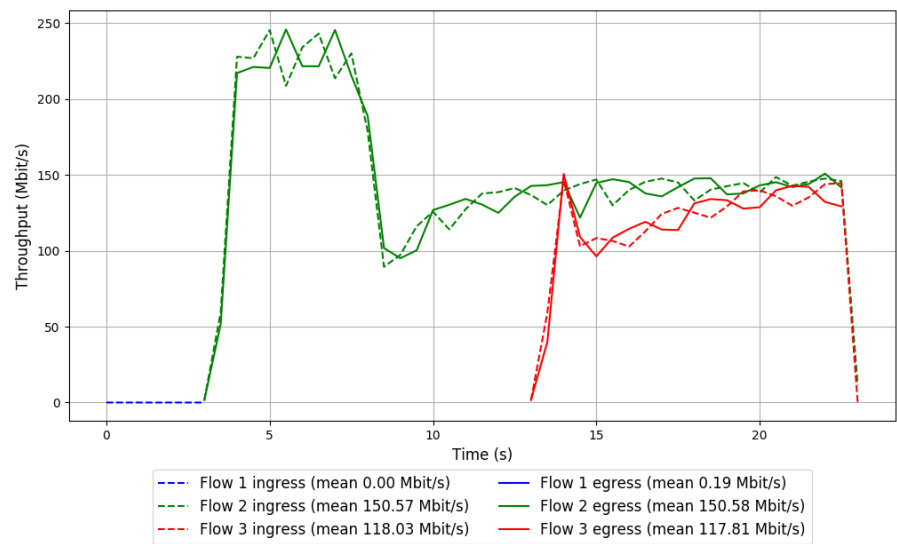


Run 3: Statistics of TCP Cubic

Start at: 2017-12-01 02:47:39

End at: 2017-12-01 02:48:09

Run 3: Report of TCP Cubic — Data Link

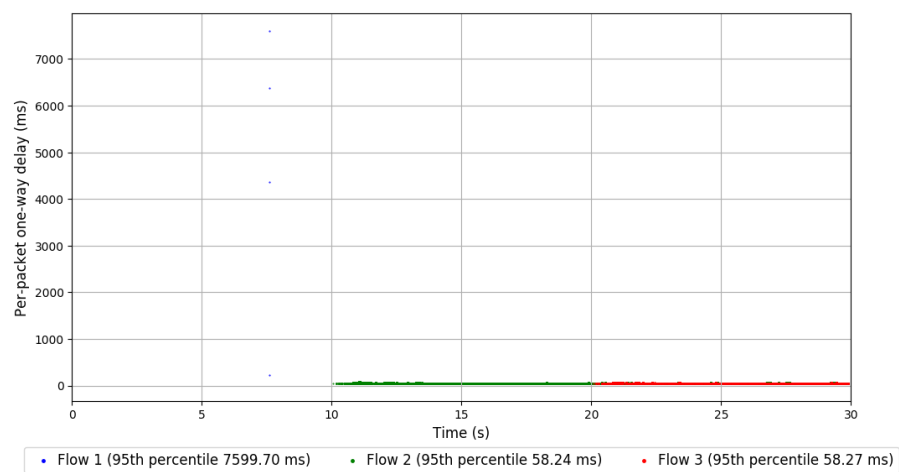
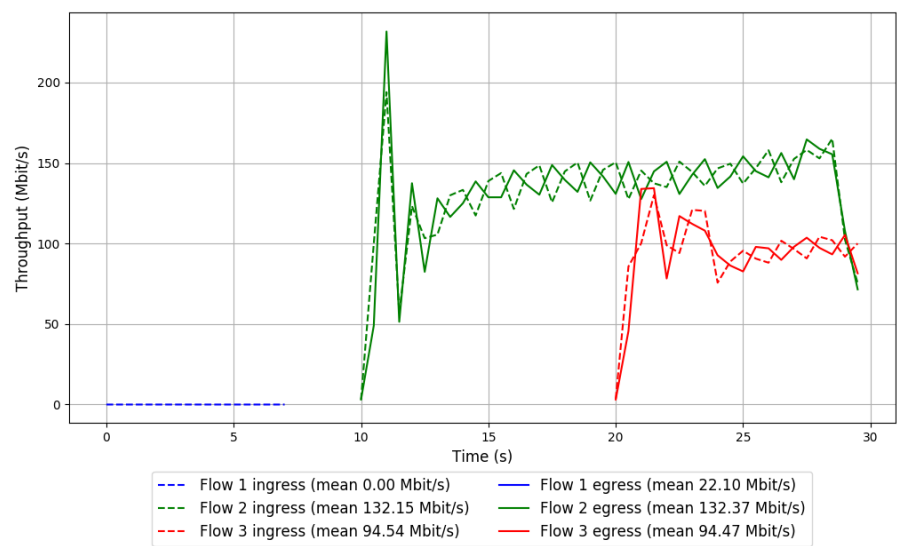


Run 4: Statistics of TCP Cubic

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

End at: 2017-12-01 03:00:33

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2017-12-01 03:12:21

End at: 2017-12-01 03:12:51

Below is generated by plot.py at 2017-12-01 06:37:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 191.03 Mbit/s

95th percentile per-packet one-way delay: 60.139 ms

Loss rate: 1.14%

-- Flow 1:

Average throughput: 115.07 Mbit/s

95th percentile per-packet one-way delay: 59.369 ms

Loss rate: 0.94%

-- Flow 2:

Average throughput: 48.87 Mbit/s

95th percentile per-packet one-way delay: 58.622 ms

Loss rate: 2.26%

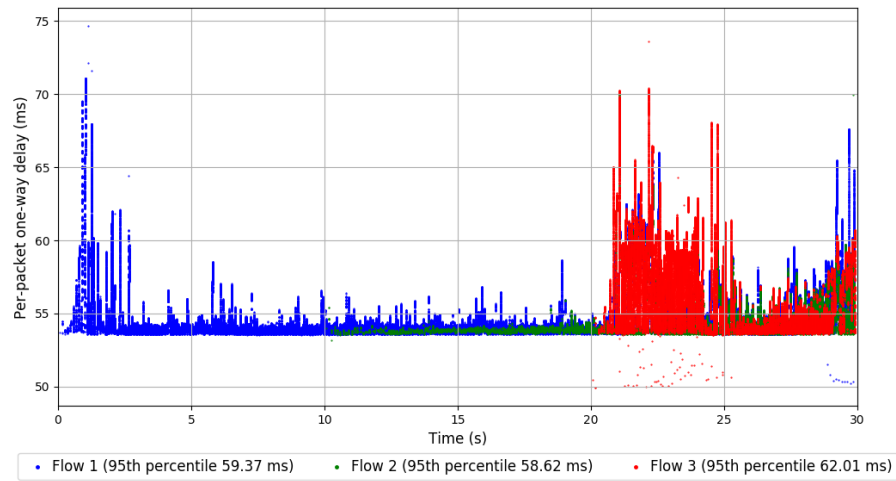
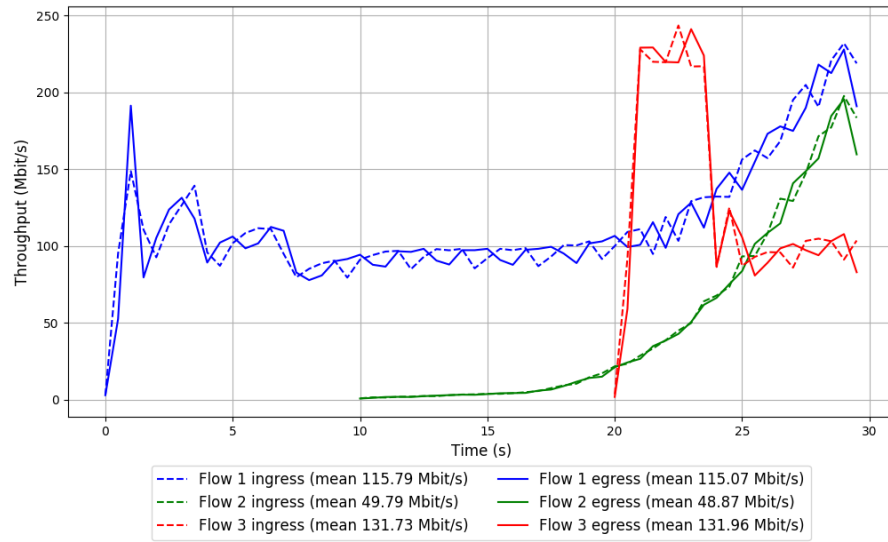
-- Flow 3:

Average throughput: 131.96 Mbit/s

95th percentile per-packet one-way delay: 62.009 ms

Loss rate: 0.84%

Run 5: Report of TCP Cubic — Data Link

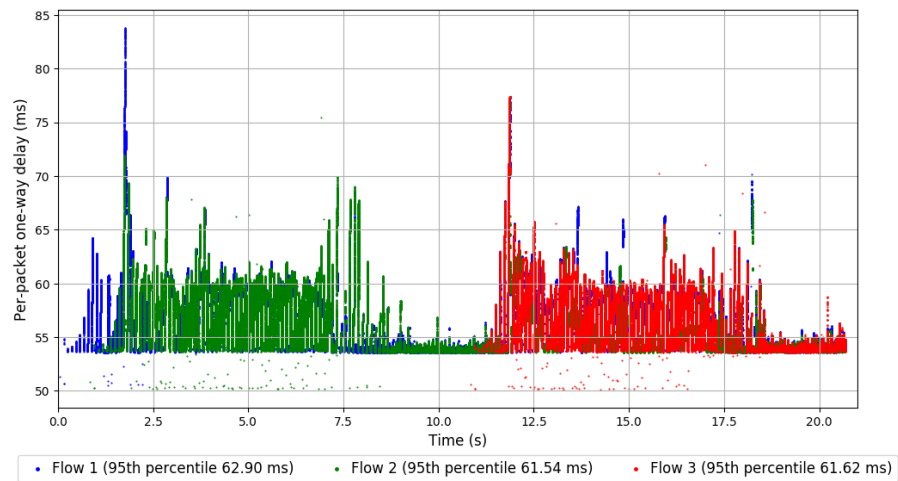
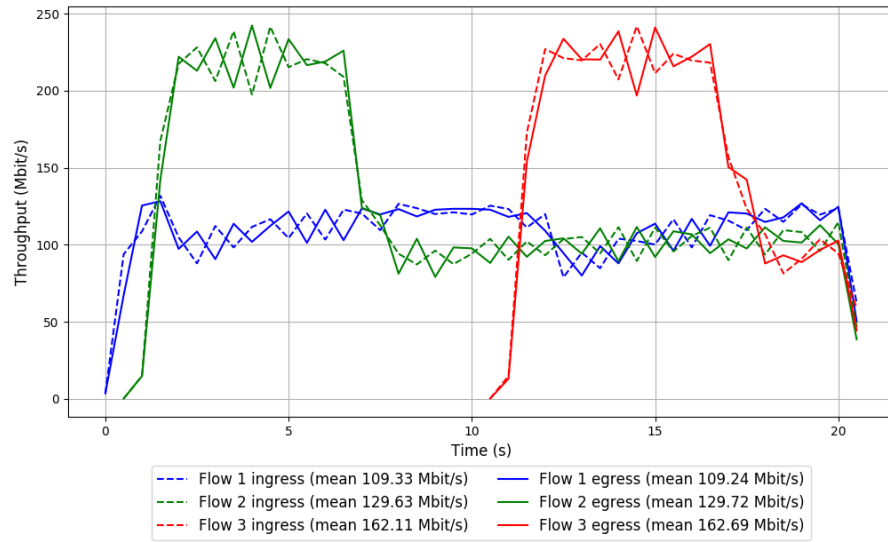


Run 6: Statistics of TCP Cubic

Start at: 2017-12-01 03:24:29

End at: 2017-12-01 03:24:59

Run 6: Report of TCP Cubic — Data Link

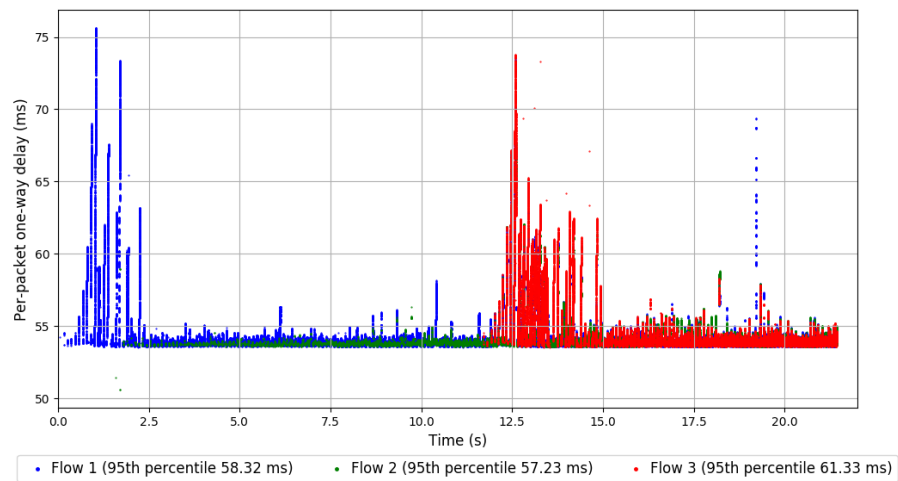
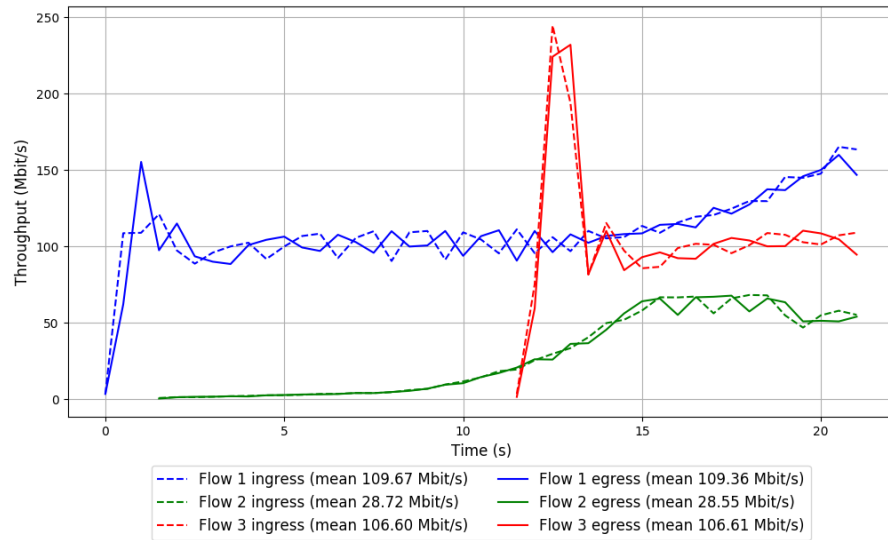


Run 7: Statistics of TCP Cubic

Start at: 2017-12-01 03:36:49

End at: 2017-12-01 03:37:19

Run 7: Report of TCP Cubic — Data Link

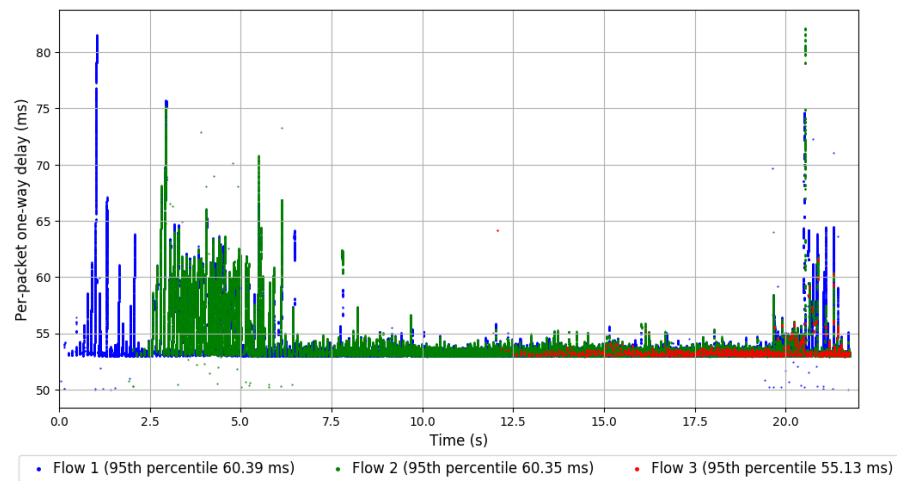
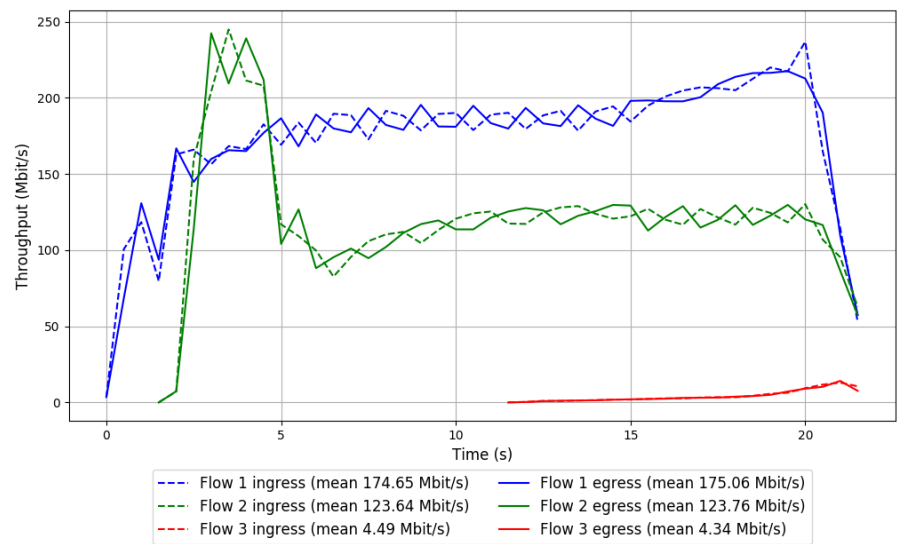


Run 8: Statistics of TCP Cubic

Start at: 2017-12-01 03:48:50

End at: 2017-12-01 03:49:20

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2017-12-01 04:00:59

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

Below is generated by plot.py at 2017-12-01 06:37:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 260.54 Mbit/s

95th percentile per-packet one-way delay: 60.176 ms

Loss rate: 0.78%

-- Flow 1:

Average throughput: 136.18 Mbit/s

95th percentile per-packet one-way delay: 60.189 ms

Loss rate: 0.70%

-- Flow 2:

Average throughput: 119.18 Mbit/s

95th percentile per-packet one-way delay: 60.139 ms

Loss rate: 0.72%

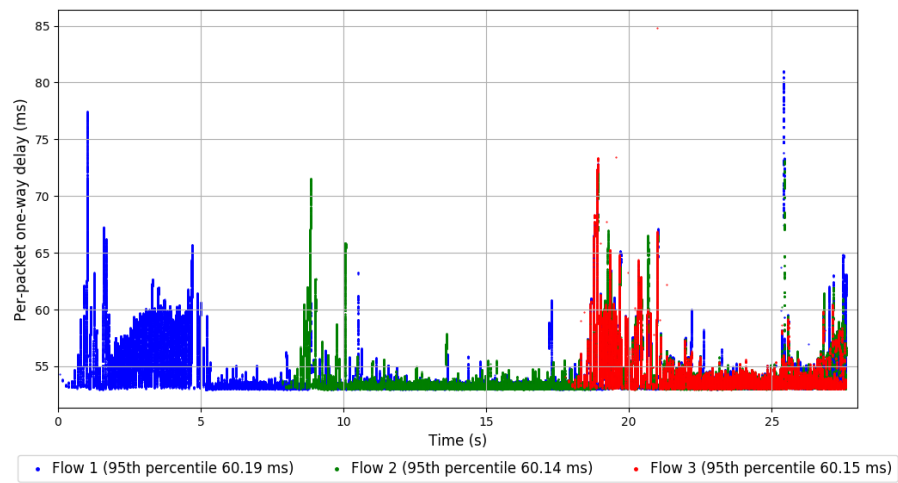
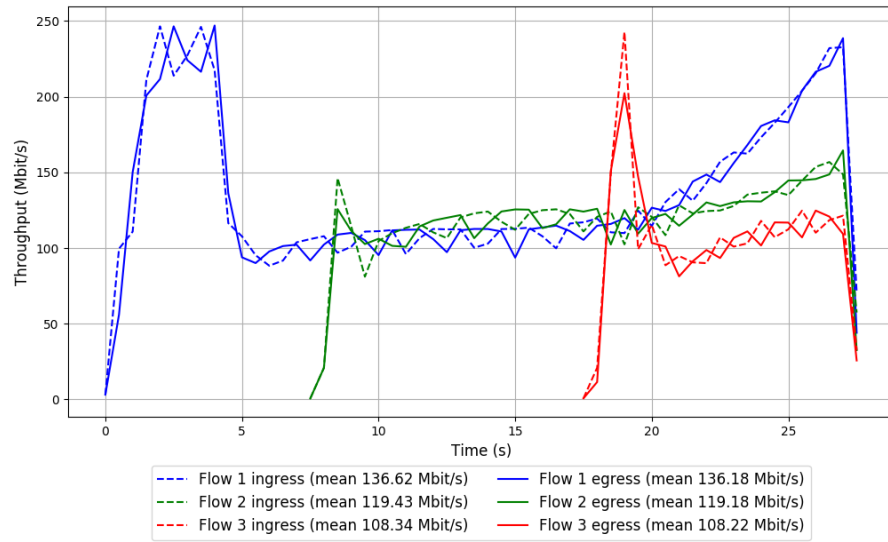
-- Flow 3:

Average throughput: 108.22 Mbit/s

95th percentile per-packet one-way delay: 60.151 ms

Loss rate: 1.20%

Run 9: Report of TCP Cubic — Data Link

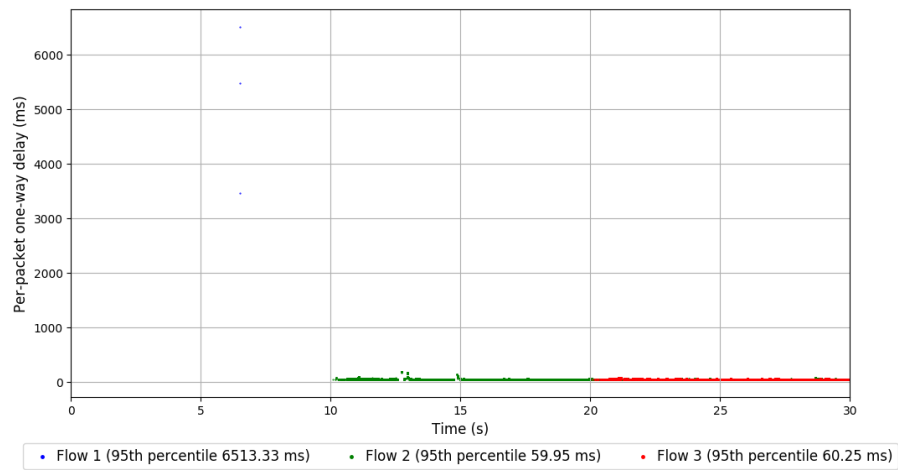
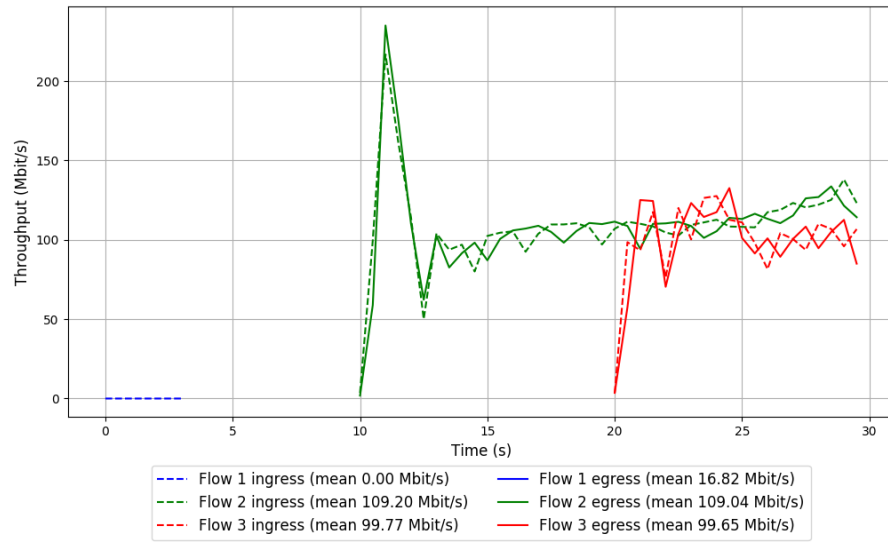


Run 10: Statistics of TCP Cubic

Start at: 2017-12-01 04:13:27

End at: 2017-12-01 04:13:57

Run 10: Report of TCP Cubic — Data Link

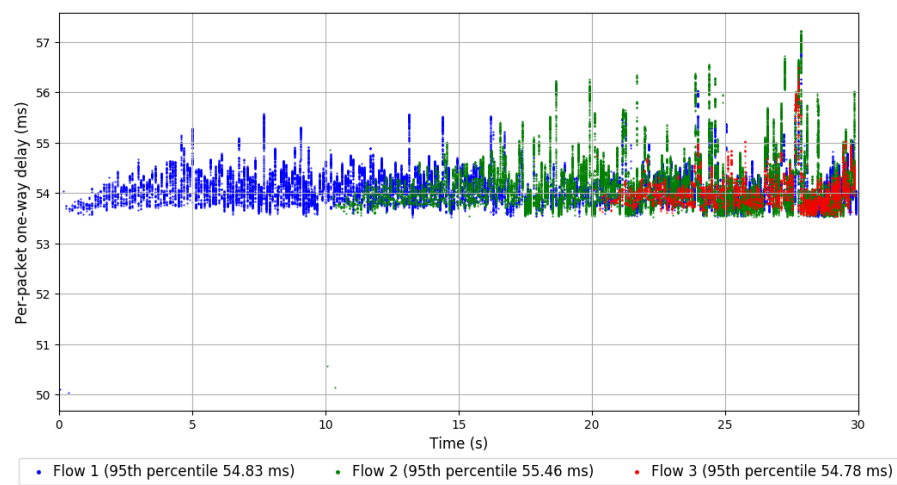
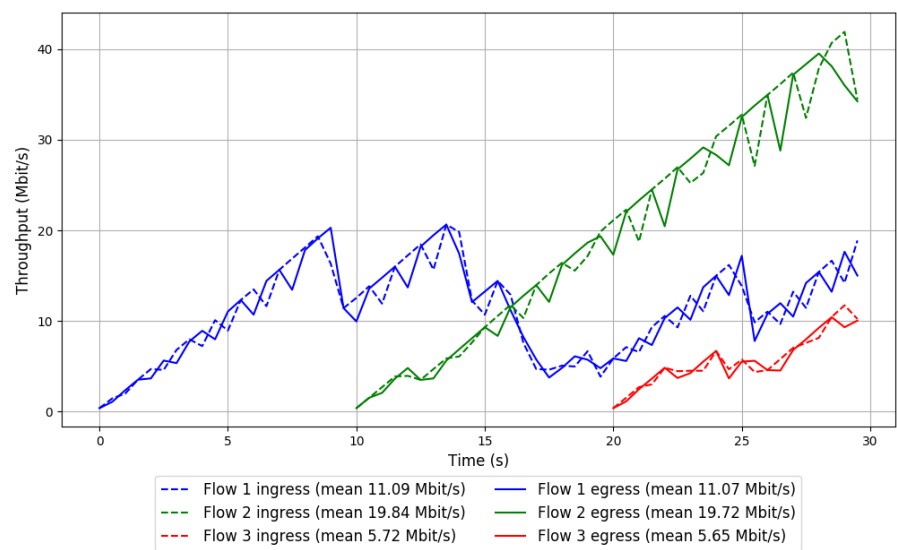


```
Run 1: Statistics of LEDBAT

Start at: 2017-12-01 02:21:47
End at: 2017-12-01 02:22:17

# Below is generated by plot.py at 2017-12-01 06:37:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 25.98 Mbit/s
95th percentile per-packet one-way delay: 55.152 ms
Loss rate: 0.97%
-- Flow 1:
Average throughput: 11.07 Mbit/s
95th percentile per-packet one-way delay: 54.827 ms
Loss rate: 0.58%
-- Flow 2:
Average throughput: 19.72 Mbit/s
95th percentile per-packet one-way delay: 55.464 ms
Loss rate: 1.10%
-- Flow 3:
Average throughput: 5.65 Mbit/s
95th percentile per-packet one-way delay: 54.778 ms
Loss rate: 2.33%
```


Run 1: Report of LEDBAT — Data Link

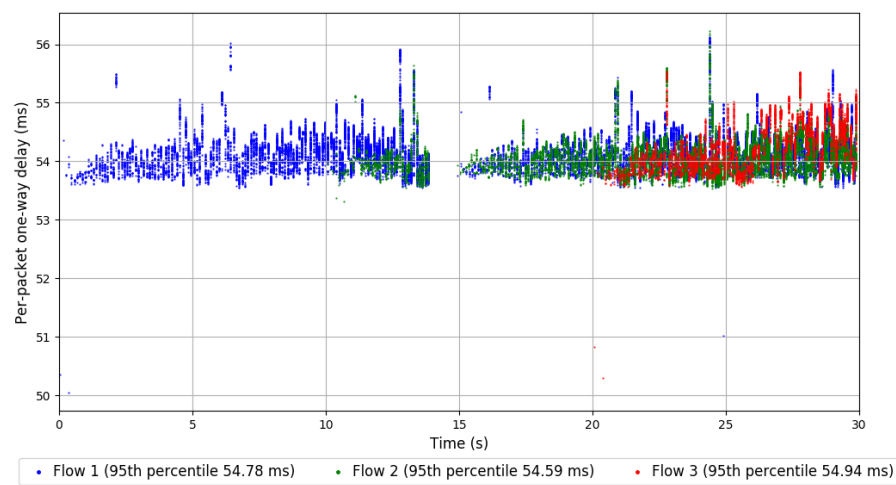
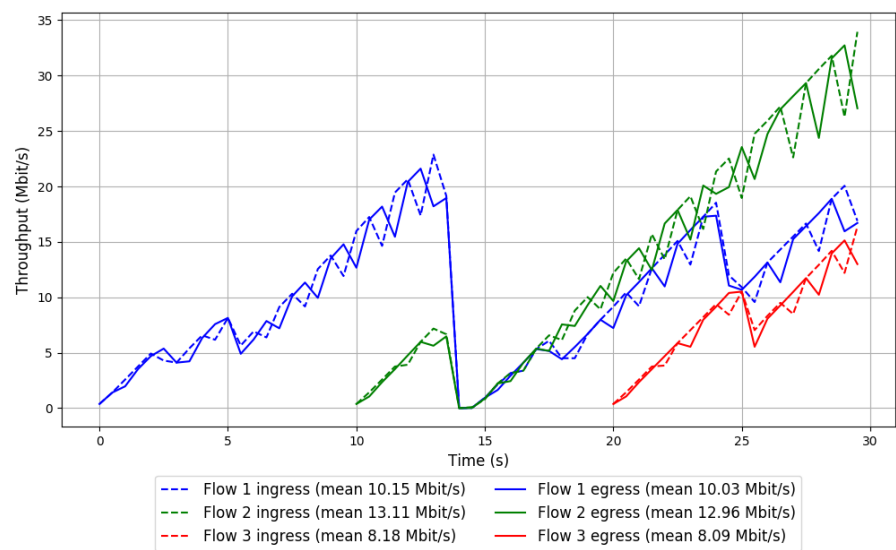


```
Run 2: Statistics of LEDBAT

Start at: 2017-12-01 02:33:58
End at: 2017-12-01 02:34:28

# Below is generated by plot.py at 2017-12-01 06:37:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 21.28 Mbit/s
95th percentile per-packet one-way delay: 54.788 ms
Loss rate: 1.64%
-- Flow 1:
Average throughput: 10.03 Mbit/s
95th percentile per-packet one-way delay: 54.785 ms
Loss rate: 1.52%
-- Flow 2:
Average throughput: 12.96 Mbit/s
95th percentile per-packet one-way delay: 54.589 ms
Loss rate: 1.65%
-- Flow 3:
Average throughput: 8.09 Mbit/s
95th percentile per-packet one-way delay: 54.941 ms
Loss rate: 2.08%
```

Run 2: Report of LEDBAT — Data Link

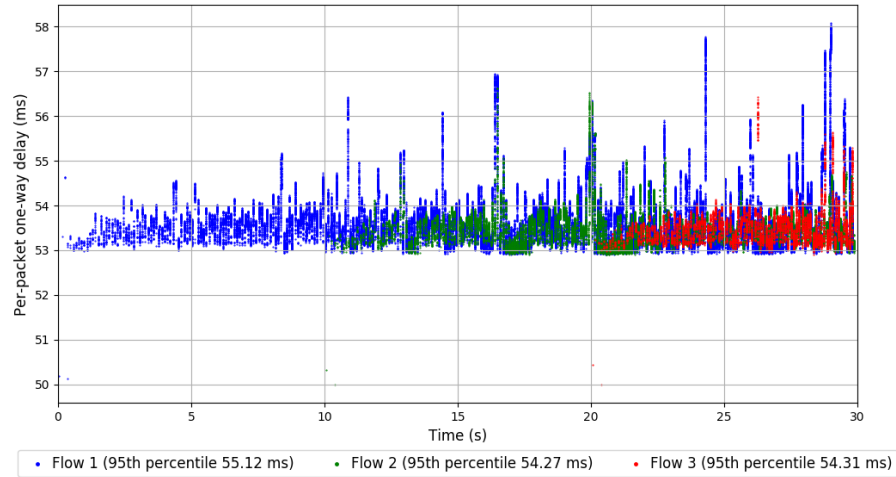
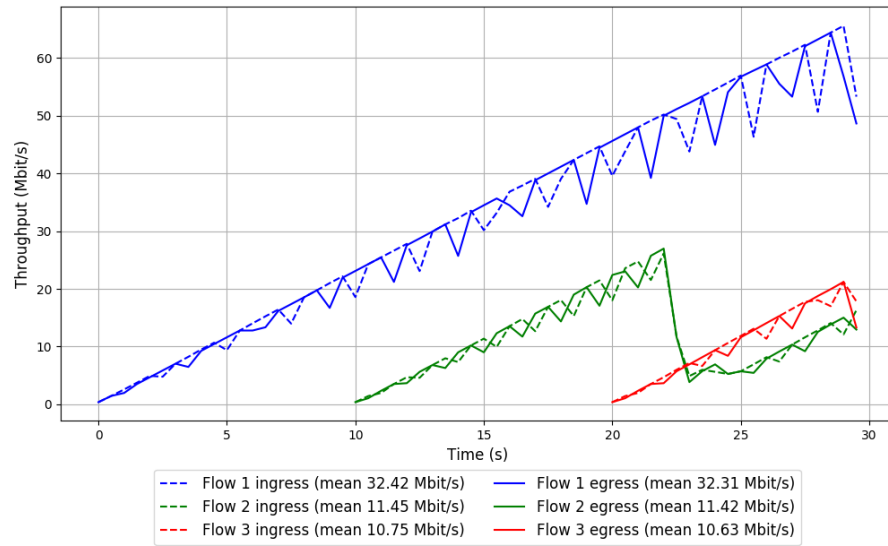


```
Run 3: Statistics of LEDBAT

Start at: 2017-12-01 02:46:02
End at: 2017-12-01 02:46:32

# Below is generated by plot.py at 2017-12-01 06:37:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 43.31 Mbit/s
95th percentile per-packet one-way delay: 54.952 ms
Loss rate: 0.82%
-- Flow 1:
Average throughput: 32.31 Mbit/s
95th percentile per-packet one-way delay: 55.117 ms
Loss rate: 0.69%
-- Flow 2:
Average throughput: 11.42 Mbit/s
95th percentile per-packet one-way delay: 54.265 ms
Loss rate: 0.75%
-- Flow 3:
Average throughput: 10.63 Mbit/s
95th percentile per-packet one-way delay: 54.310 ms
Loss rate: 2.14%
```

Run 3: Report of LEDBAT — Data Link

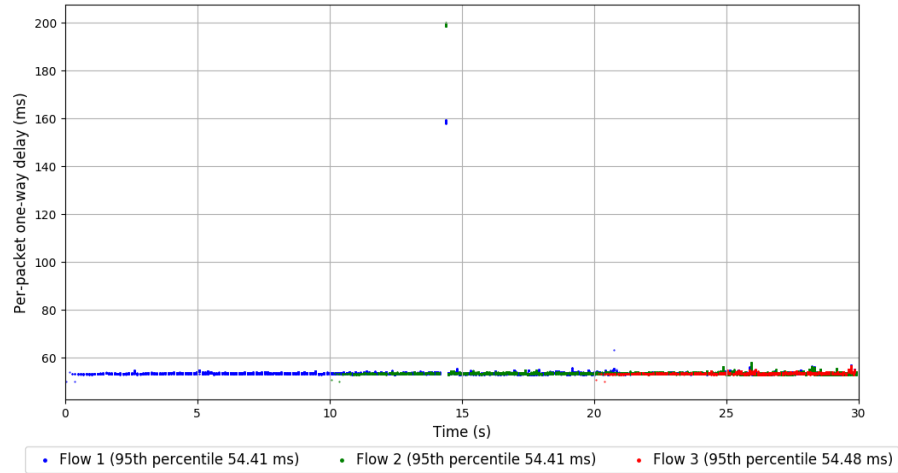
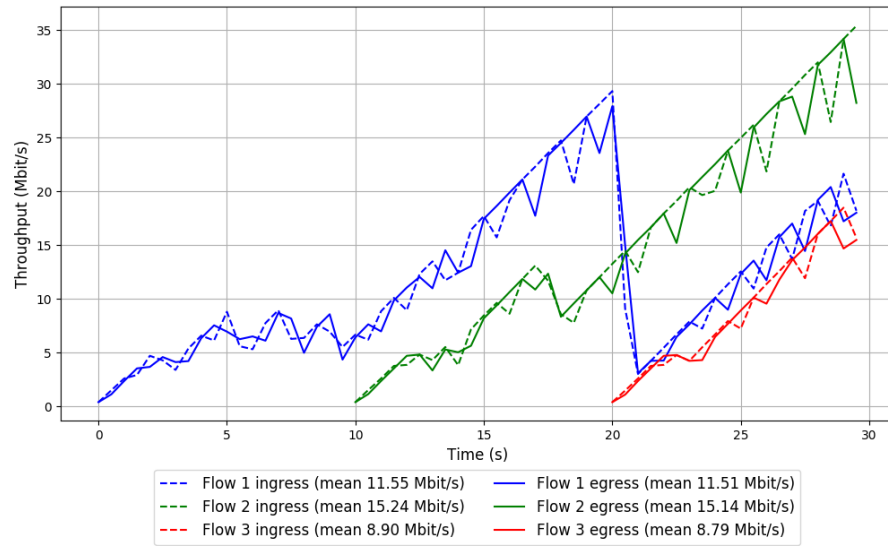


```
Run 4: Statistics of LEDBAT

Start at: 2017-12-01 02:58:29
End at: 2017-12-01 02:58:59

# Below is generated by plot.py at 2017-12-01 06:37:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 24.42 Mbit/s
95th percentile per-packet one-way delay: 54.417 ms
Loss rate: 1.07%
-- Flow 1:
Average throughput: 11.51 Mbit/s
95th percentile per-packet one-way delay: 54.408 ms
Loss rate: 0.67%
-- Flow 2:
Average throughput: 15.14 Mbit/s
95th percentile per-packet one-way delay: 54.405 ms
Loss rate: 1.18%
-- Flow 3:
Average throughput: 8.79 Mbit/s
95th percentile per-packet one-way delay: 54.475 ms
Loss rate: 2.27%
```

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2017-12-01 03:10:47

End at: 2017-12-01 03:11:17

Below is generated by plot.py at 2017-12-01 06:37:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 24.22 Mbit/s

95th percentile per-packet one-way delay: 54.714 ms

Loss rate: 0.84%

-- Flow 1:

Average throughput: 12.32 Mbit/s

95th percentile per-packet one-way delay: 54.762 ms

Loss rate: 0.67%

-- Flow 2:

Average throughput: 14.07 Mbit/s

95th percentile per-packet one-way delay: 54.648 ms

Loss rate: 0.72%

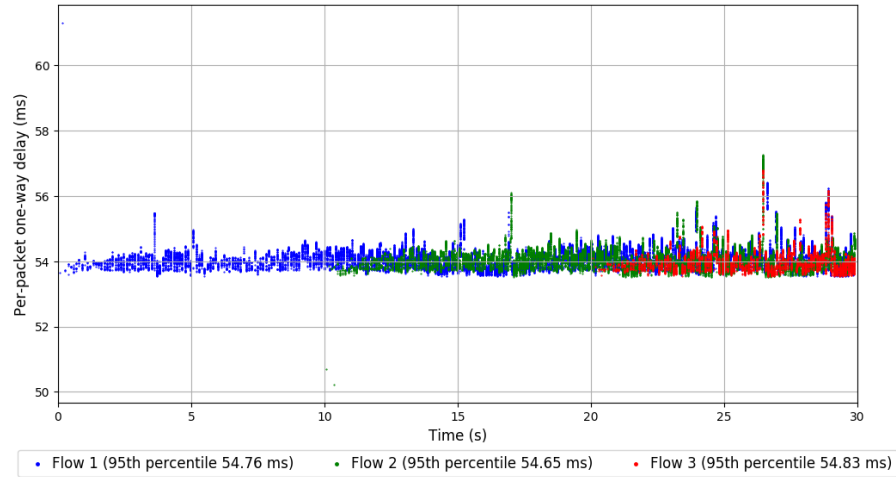
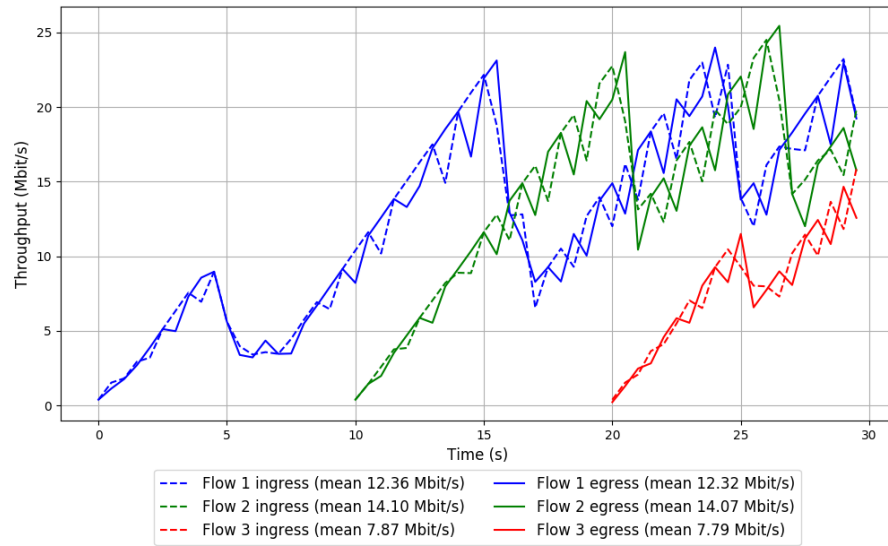
-- Flow 3:

Average throughput: 7.79 Mbit/s

95th percentile per-packet one-way delay: 54.828 ms

Loss rate: 2.10%

Run 5: Report of LEDBAT — Data Link

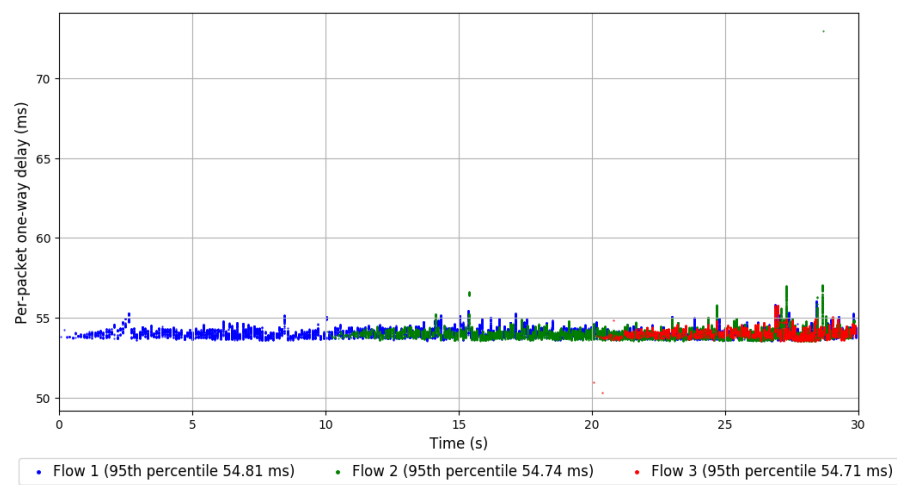
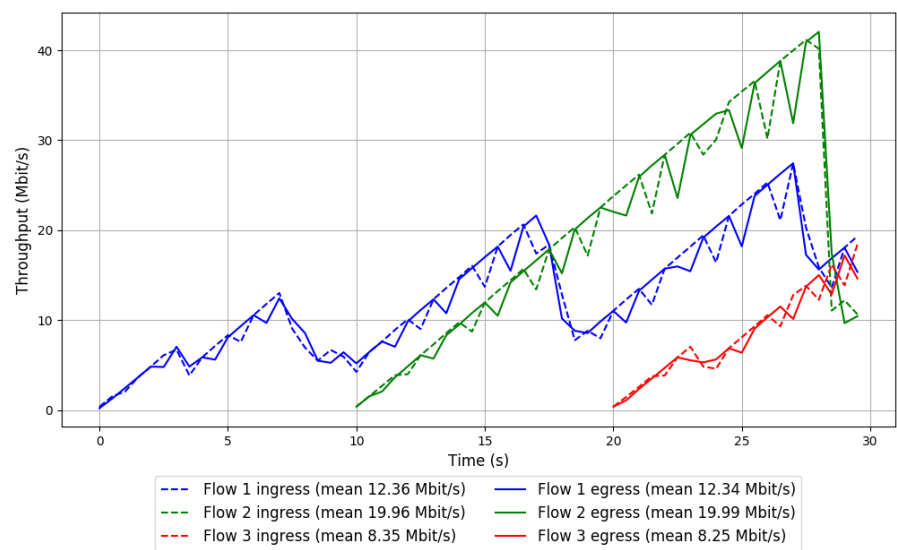


```
Run 6: Statistics of LEDBAT

Start at: 2017-12-01 03:22:57
End at: 2017-12-01 03:23:27

# Below is generated by plot.py at 2017-12-01 06:37:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 28.29 Mbit/s
95th percentile per-packet one-way delay: 54.767 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 12.34 Mbit/s
95th percentile per-packet one-way delay: 54.809 ms
Loss rate: 0.54%
-- Flow 2:
Average throughput: 19.99 Mbit/s
95th percentile per-packet one-way delay: 54.737 ms
Loss rate: 0.36%
-- Flow 3:
Average throughput: 8.25 Mbit/s
95th percentile per-packet one-way delay: 54.709 ms
Loss rate: 2.28%
```

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2017-12-01 03:35:15

End at: 2017-12-01 03:35:45

Below is generated by plot.py at 2017-12-01 06:37:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 26.57 Mbit/s

95th percentile per-packet one-way delay: 55.376 ms

Loss rate: 0.61%

-- Flow 1:

Average throughput: 14.19 Mbit/s

95th percentile per-packet one-way delay: 55.216 ms

Loss rate: 0.45%

-- Flow 2:

Average throughput: 14.63 Mbit/s

95th percentile per-packet one-way delay: 55.734 ms

Loss rate: 0.36%

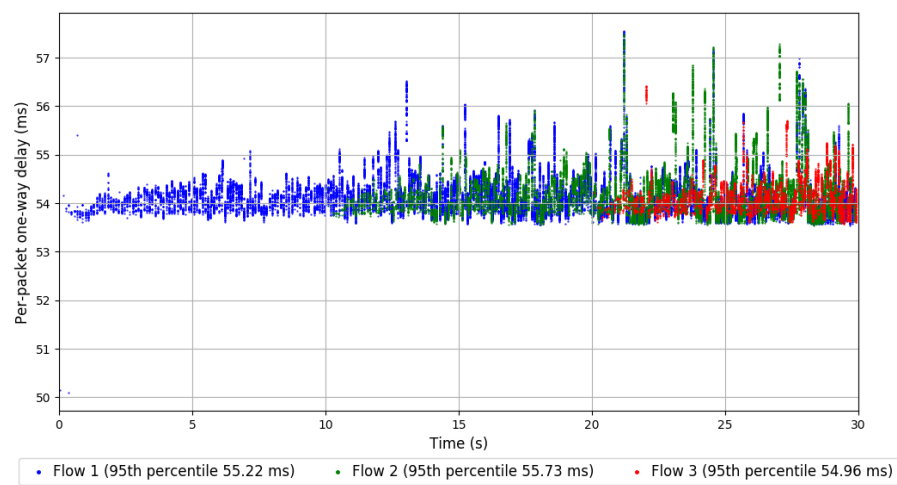
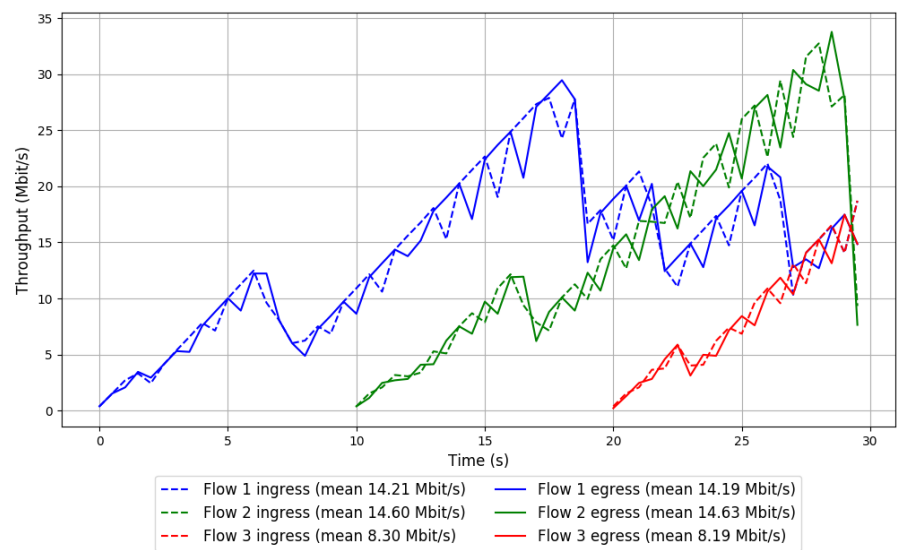
-- Flow 3:

Average throughput: 8.19 Mbit/s

95th percentile per-packet one-way delay: 54.958 ms

Loss rate: 2.33%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2017-12-01 03:47:16

End at: 2017-12-01 03:47:46

Below is generated by plot.py at 2017-12-01 06:37:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 23.35 Mbit/s

95th percentile per-packet one-way delay: 54.332 ms

Loss rate: 0.56%

-- Flow 1:

Average throughput: 10.94 Mbit/s

95th percentile per-packet one-way delay: 54.242 ms

Loss rate: 0.28%

-- Flow 2:

Average throughput: 13.71 Mbit/s

95th percentile per-packet one-way delay: 54.569 ms

Loss rate: 0.30%

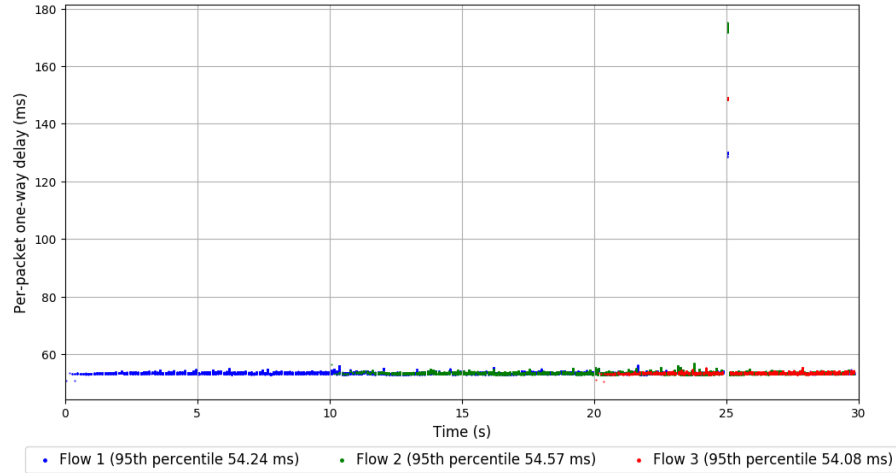
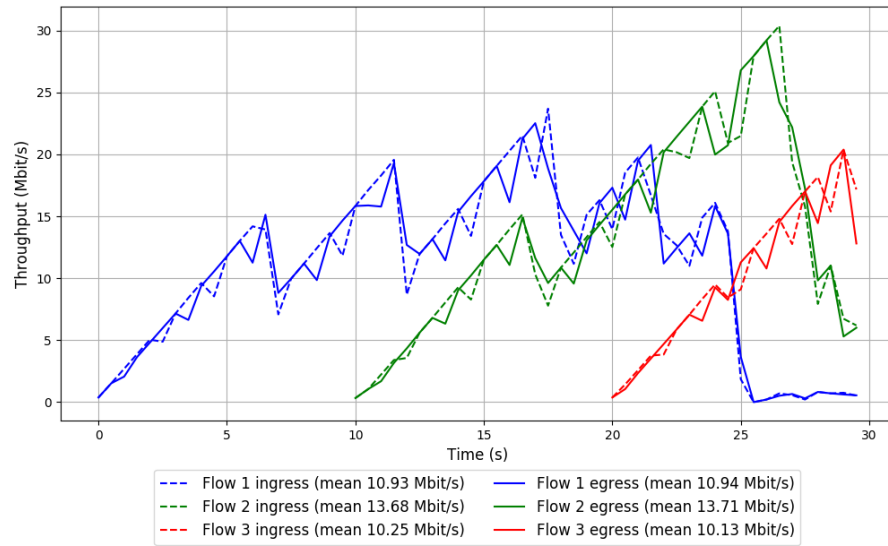
-- Flow 3:

Average throughput: 10.13 Mbit/s

95th percentile per-packet one-way delay: 54.082 ms

Loss rate: 2.16%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2017-12-01 03:59:25

End at: 2017-12-01 03:59:55

Below is generated by plot.py at 2017-12-01 06:37:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 23.17 Mbit/s

95th percentile per-packet one-way delay: 54.620 ms

Loss rate: 0.85%

-- Flow 1:

Average throughput: 13.36 Mbit/s

95th percentile per-packet one-way delay: 54.905 ms

Loss rate: 0.75%

-- Flow 2:

Average throughput: 10.15 Mbit/s

95th percentile per-packet one-way delay: 54.223 ms

Loss rate: 0.84%

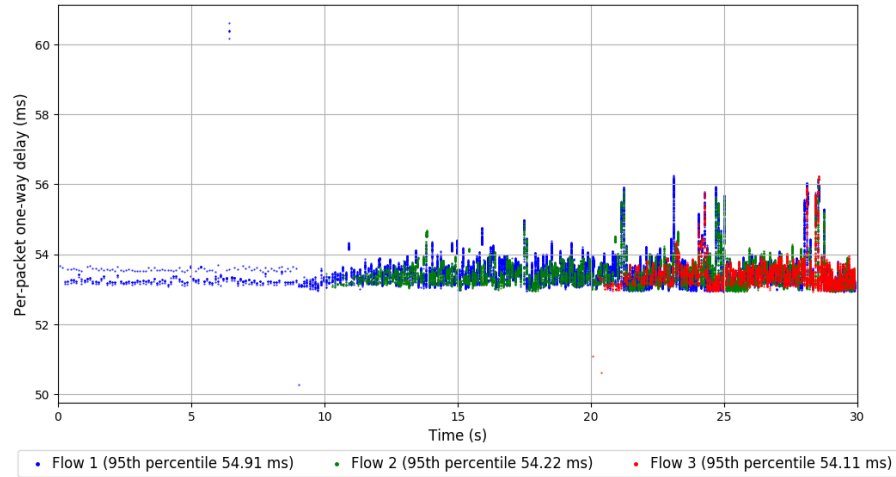
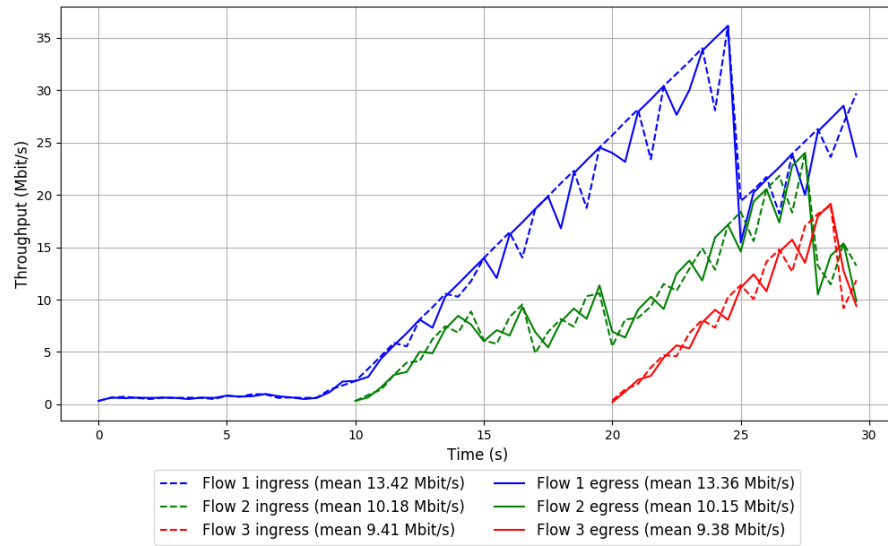
-- Flow 3:

Average throughput: 9.38 Mbit/s

95th percentile per-packet one-way delay: 54.106 ms

Loss rate: 1.32%

Run 9: Report of LEDBAT — Data Link

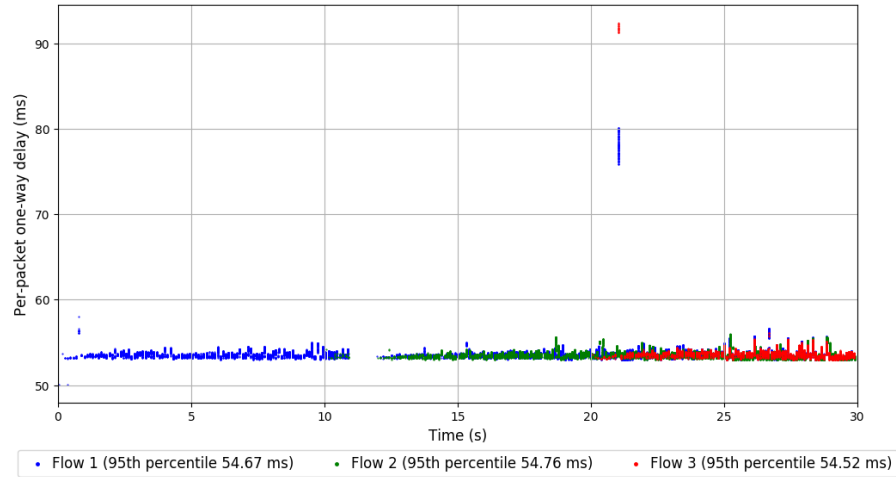
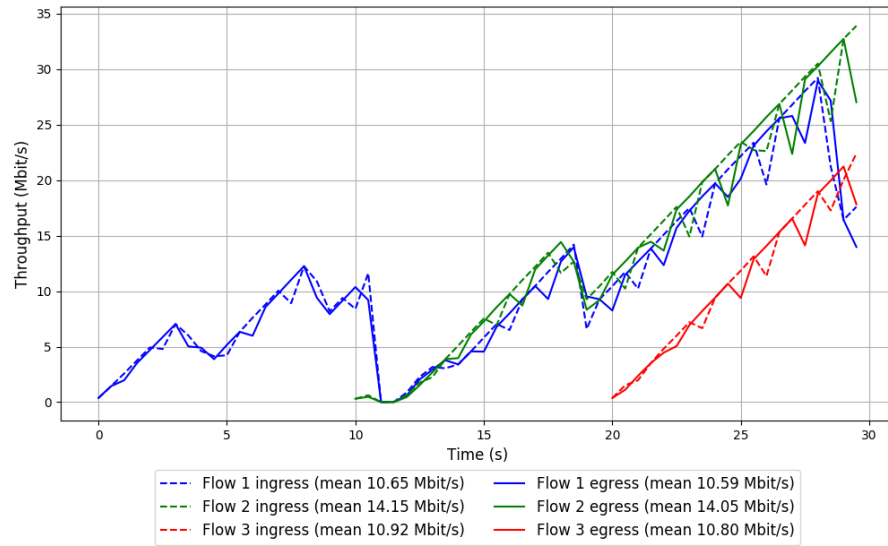


```
Run 10: Statistics of LEDBAT

Start at: 2017-12-01 04:11:53
End at: 2017-12-01 04:12:23

# Below is generated by plot.py at 2017-12-01 06:37:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 23.48 Mbit/s
95th percentile per-packet one-way delay: 54.662 ms
Loss rate: 1.24%
-- Flow 1:
Average throughput: 10.59 Mbit/s
95th percentile per-packet one-way delay: 54.669 ms
Loss rate: 0.94%
-- Flow 2:
Average throughput: 14.05 Mbit/s
95th percentile per-packet one-way delay: 54.759 ms
Loss rate: 1.24%
-- Flow 3:
Average throughput: 10.80 Mbit/s
95th percentile per-packet one-way delay: 54.521 ms
Loss rate: 2.11%
```

Run 10: Report of LEDBAT — Data Link

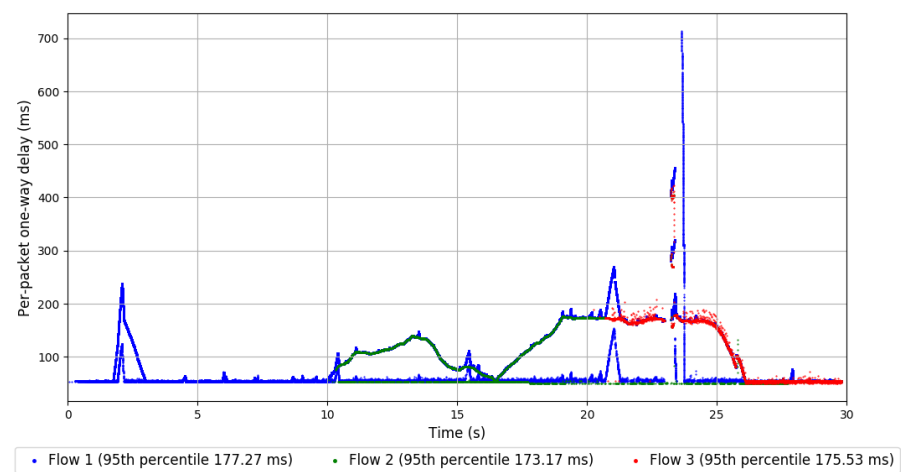
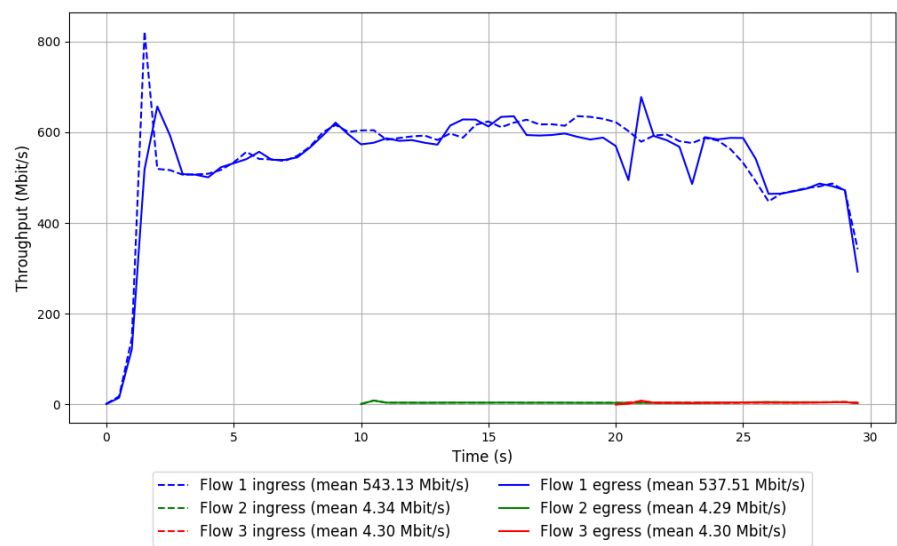


```
Run 1: Statistics of PCC

Start at: 2017-12-01 02:25:17
End at: 2017-12-01 02:25:47

# Below is generated by plot.py at 2017-12-01 06:45:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 541.75 Mbit/s
95th percentile per-packet one-way delay: 177.199 ms
Loss rate: 1.38%
-- Flow 1:
Average throughput: 537.51 Mbit/s
95th percentile per-packet one-way delay: 177.271 ms
Loss rate: 1.38%
-- Flow 2:
Average throughput: 4.29 Mbit/s
95th percentile per-packet one-way delay: 173.169 ms
Loss rate: 1.63%
-- Flow 3:
Average throughput: 4.30 Mbit/s
95th percentile per-packet one-way delay: 175.531 ms
Loss rate: 2.39%
```

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2017-12-01 02:37:29

End at: 2017-12-01 02:37:59

Below is generated by plot.py at 2017-12-01 06:45:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 549.18 Mbit/s

95th percentile per-packet one-way delay: 178.177 ms

Loss rate: 1.39%

-- Flow 1:

Average throughput: 506.04 Mbit/s

95th percentile per-packet one-way delay: 178.563 ms

Loss rate: 1.36%

-- Flow 2:

Average throughput: 4.77 Mbit/s

95th percentile per-packet one-way delay: 174.756 ms

Loss rate: 1.26%

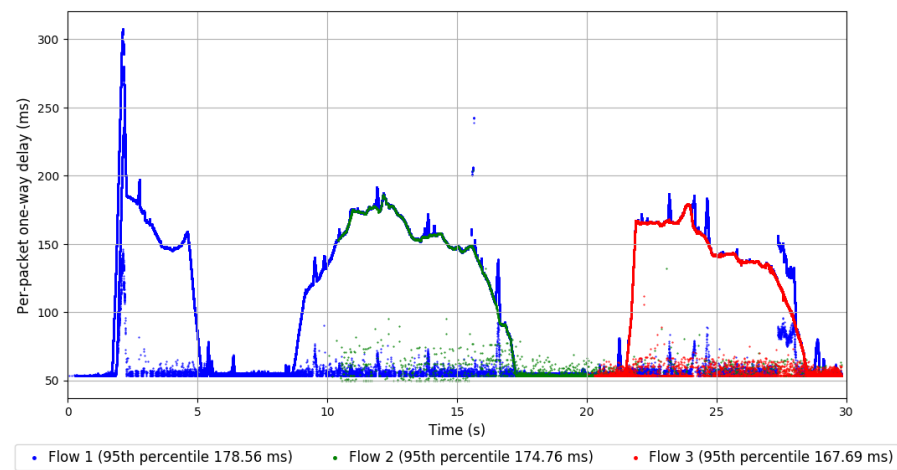
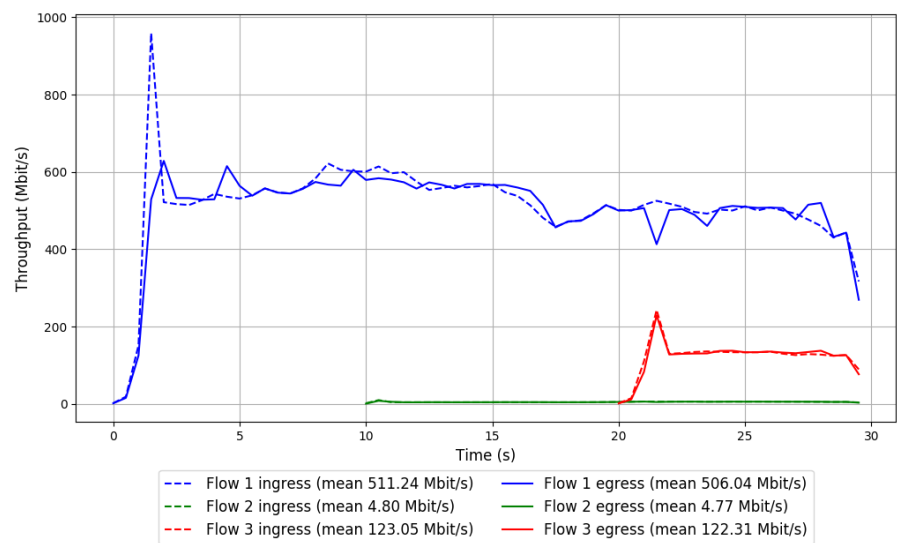
-- Flow 3:

Average throughput: 122.31 Mbit/s

95th percentile per-packet one-way delay: 167.693 ms

Loss rate: 1.66%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2017-12-01 02:49:30

End at: 2017-12-01 02:50:00

Below is generated by plot.py at 2017-12-01 06:46:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 572.56 Mbit/s

95th percentile per-packet one-way delay: 184.922 ms

Loss rate: 2.66%

-- Flow 1:

Average throughput: 551.65 Mbit/s

95th percentile per-packet one-way delay: 185.091 ms

Loss rate: 2.71%

-- Flow 2:

Average throughput: 2.00 Mbit/s

95th percentile per-packet one-way delay: 177.036 ms

Loss rate: 1.62%

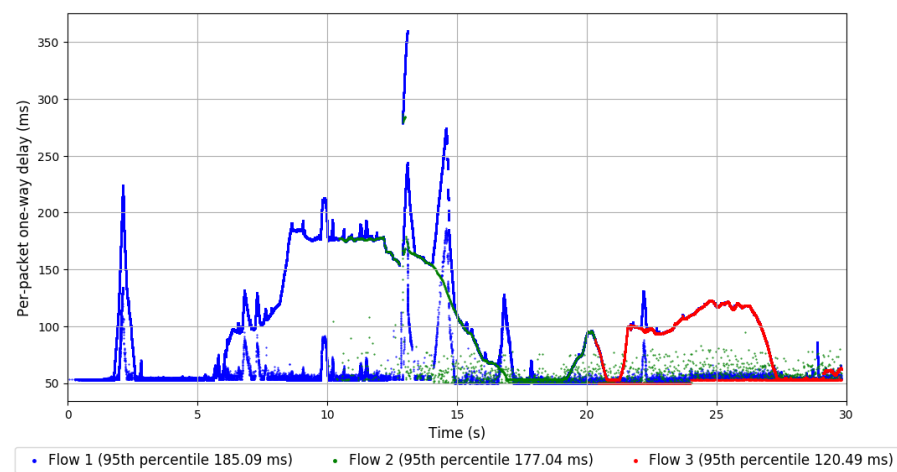
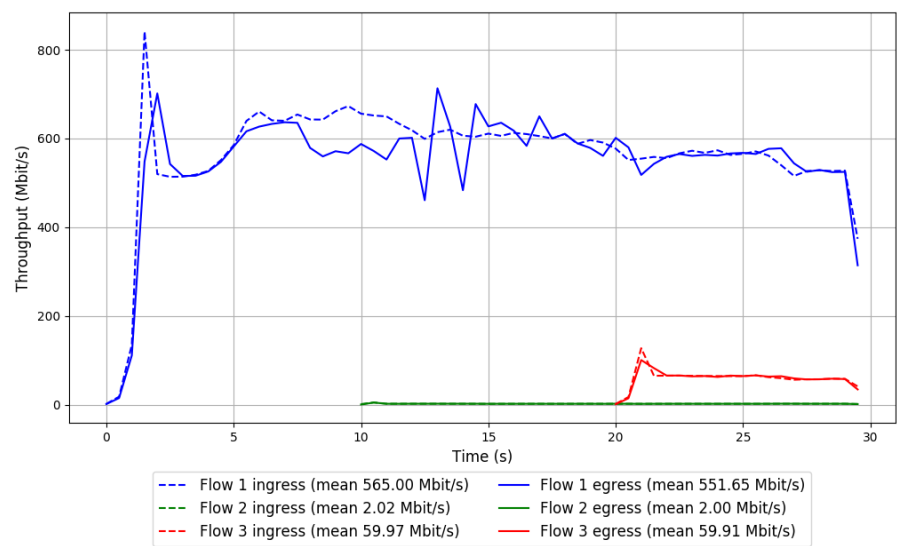
-- Flow 3:

Average throughput: 59.91 Mbit/s

95th percentile per-packet one-way delay: 120.486 ms

Loss rate: 1.15%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2017-12-01 03:01:53

End at: 2017-12-01 03:02:23

Below is generated by plot.py at 2017-12-01 06:46:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 560.40 Mbit/s

95th percentile per-packet one-way delay: 174.659 ms

Loss rate: 1.16%

-- Flow 1:

Average throughput: 538.91 Mbit/s

95th percentile per-packet one-way delay: 174.620 ms

Loss rate: 1.13%

-- Flow 2:

Average throughput: 2.18 Mbit/s

95th percentile per-packet one-way delay: 174.189 ms

Loss rate: 0.95%

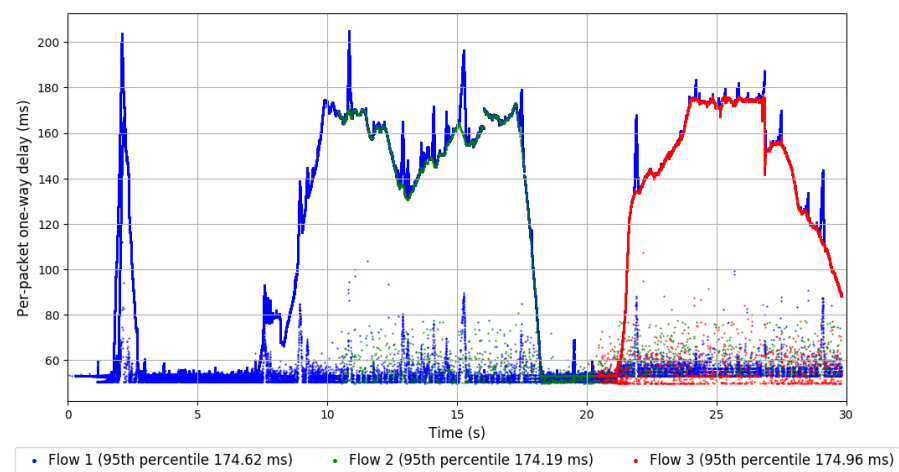
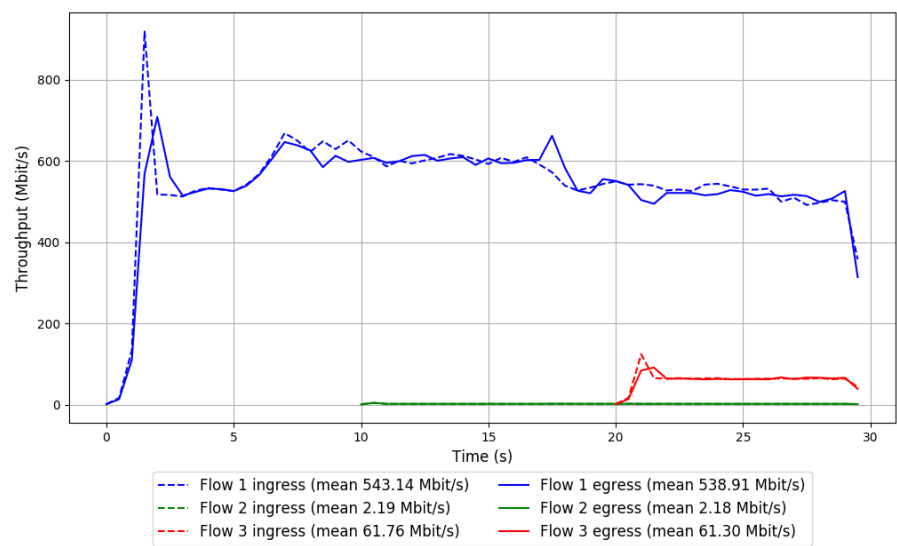
-- Flow 3:

Average throughput: 61.30 Mbit/s

95th percentile per-packet one-way delay: 174.957 ms

Loss rate: 1.89%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2017-12-01 03:14:15

End at: 2017-12-01 03:14:45

Below is generated by plot.py at 2017-12-01 06:46:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 563.33 Mbit/s

95th percentile per-packet one-way delay: 174.653 ms

Loss rate: 1.67%

-- Flow 1:

Average throughput: 502.79 Mbit/s

95th percentile per-packet one-way delay: 174.723 ms

Loss rate: 1.65%

-- Flow 2:

Average throughput: 62.37 Mbit/s

95th percentile per-packet one-way delay: 174.620 ms

Loss rate: 1.58%

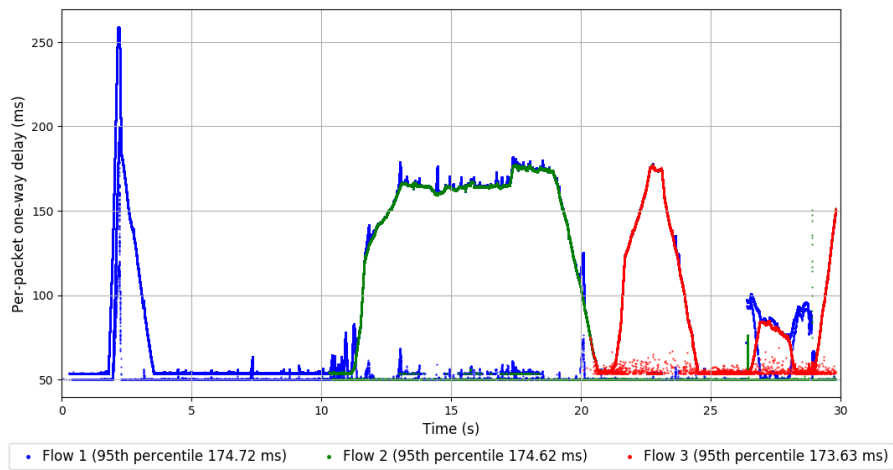
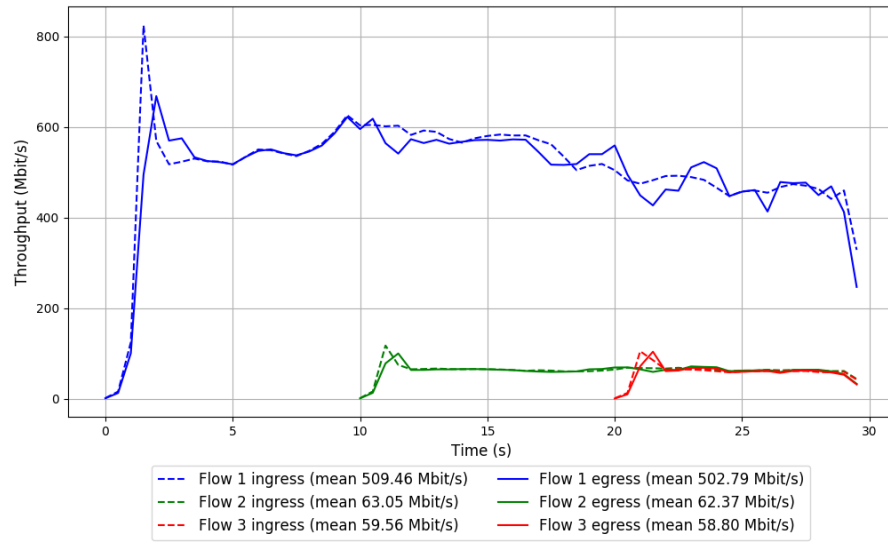
-- Flow 3:

Average throughput: 58.80 Mbit/s

95th percentile per-packet one-way delay: 173.627 ms

Loss rate: 2.35%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2017-12-01 03:26:25

End at: 2017-12-01 03:26:55

Below is generated by plot.py at 2017-12-01 06:46:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 563.84 Mbit/s

95th percentile per-packet one-way delay: 166.312 ms

Loss rate: 1.30%

-- Flow 1:

Average throughput: 483.71 Mbit/s

95th percentile per-packet one-way delay: 167.181 ms

Loss rate: 1.31%

-- Flow 2:

Average throughput: 119.66 Mbit/s

95th percentile per-packet one-way delay: 164.889 ms

Loss rate: 1.26%

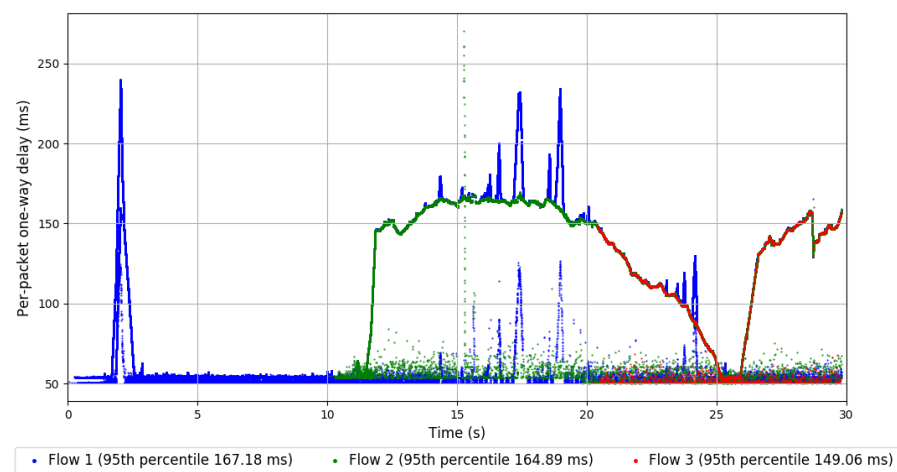
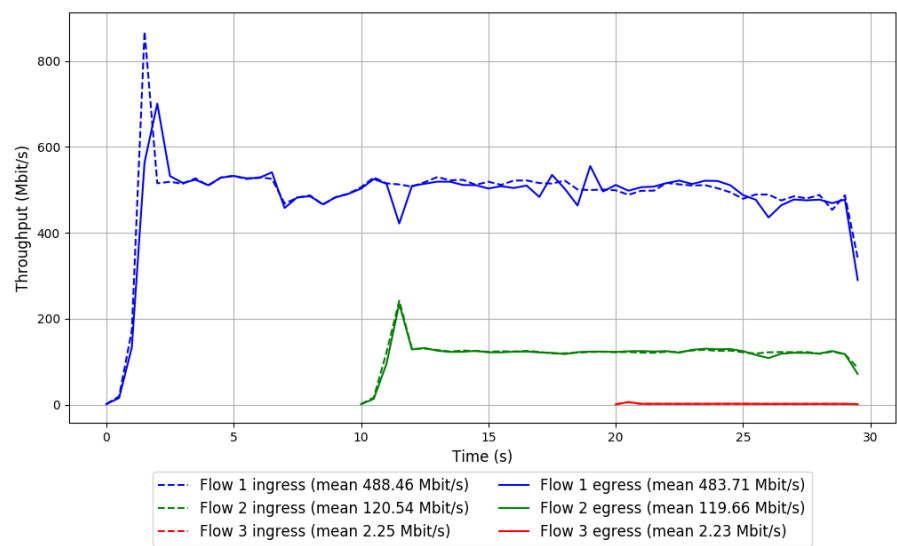
-- Flow 3:

Average throughput: 2.23 Mbit/s

95th percentile per-packet one-way delay: 149.057 ms

Loss rate: 1.92%

Run 6: Report of PCC — Data Link

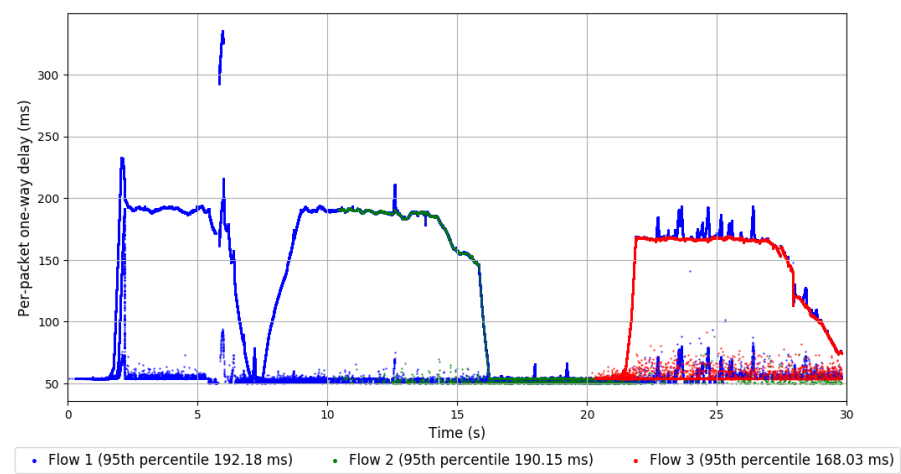
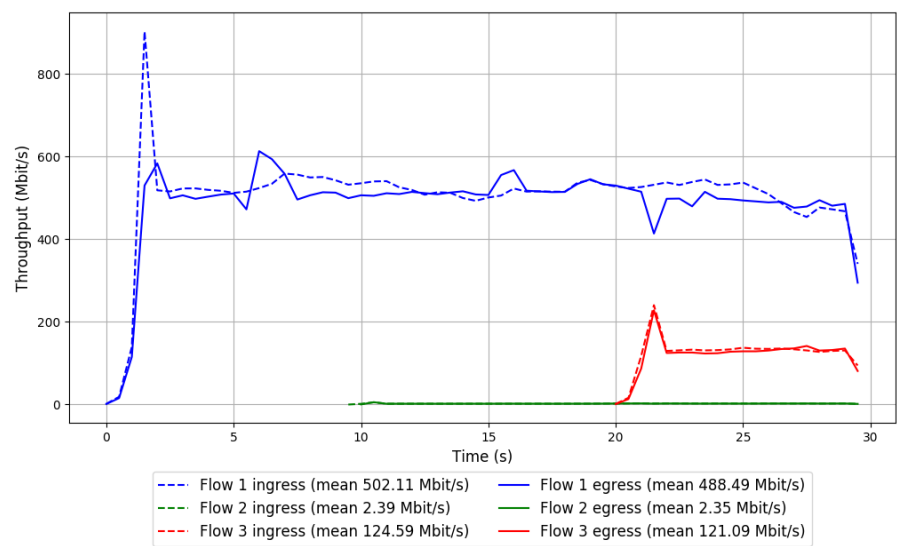


```
Run 7: Statistics of PCC

Start at: 2017-12-01 03:38:39
End at: 2017-12-01 03:39:09

# Below is generated by plot.py at 2017-12-01 06:46:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 529.69 Mbit/s
95th percentile per-packet one-way delay: 192.035 ms
Loss rate: 3.12%
-- Flow 1:
Average throughput: 488.49 Mbit/s
95th percentile per-packet one-way delay: 192.183 ms
Loss rate: 3.06%
-- Flow 2:
Average throughput: 2.35 Mbit/s
95th percentile per-packet one-way delay: 190.154 ms
Loss rate: 2.54%
-- Flow 3:
Average throughput: 121.09 Mbit/s
95th percentile per-packet one-way delay: 168.028 ms
Loss rate: 3.87%
```


Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2017-12-01 03:50:45

End at: 2017-12-01 03:51:15

Below is generated by plot.py at 2017-12-01 06:46:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 509.42 Mbit/s

95th percentile per-packet one-way delay: 194.436 ms

Loss rate: 4.18%

-- Flow 1:

Average throughput: 506.59 Mbit/s

95th percentile per-packet one-way delay: 194.444 ms

Loss rate: 4.19%

-- Flow 2:

Average throughput: 2.17 Mbit/s

95th percentile per-packet one-way delay: 193.482 ms

Loss rate: 4.15%

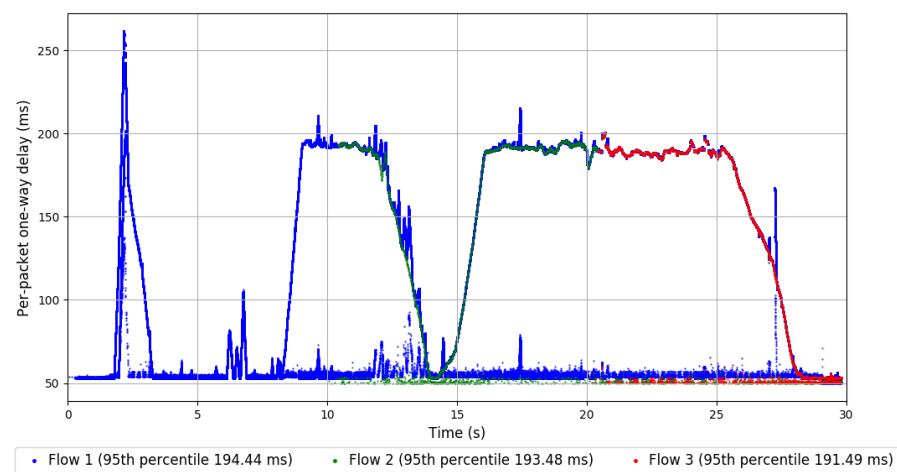
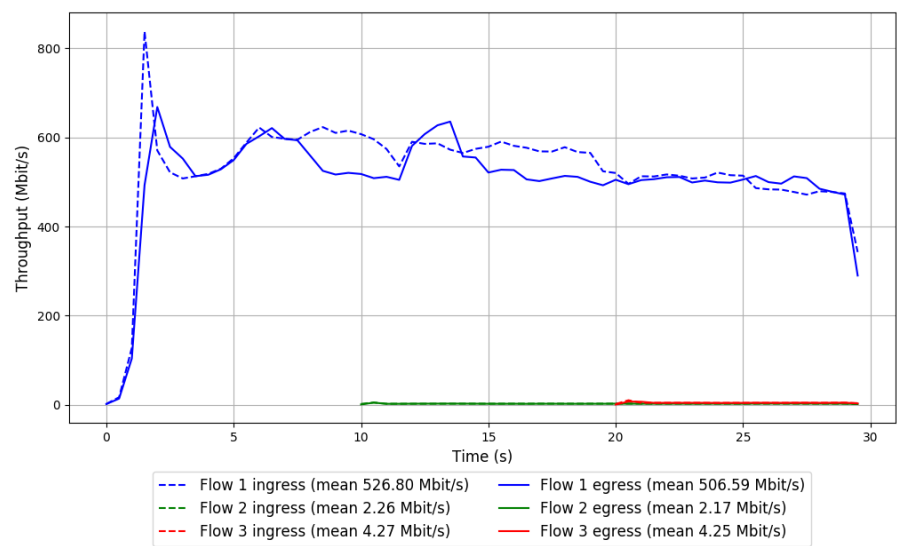
-- Flow 3:

Average throughput: 4.25 Mbit/s

95th percentile per-packet one-way delay: 191.494 ms

Loss rate: 1.74%

Run 8: Report of PCC — Data Link

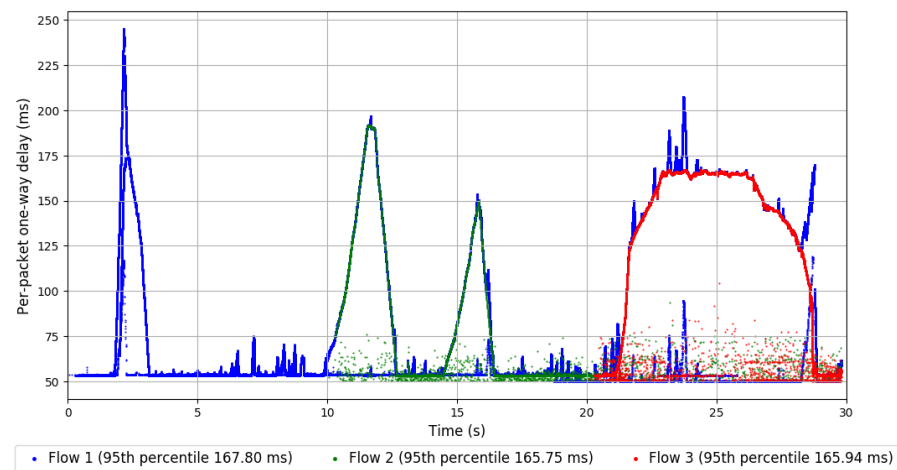
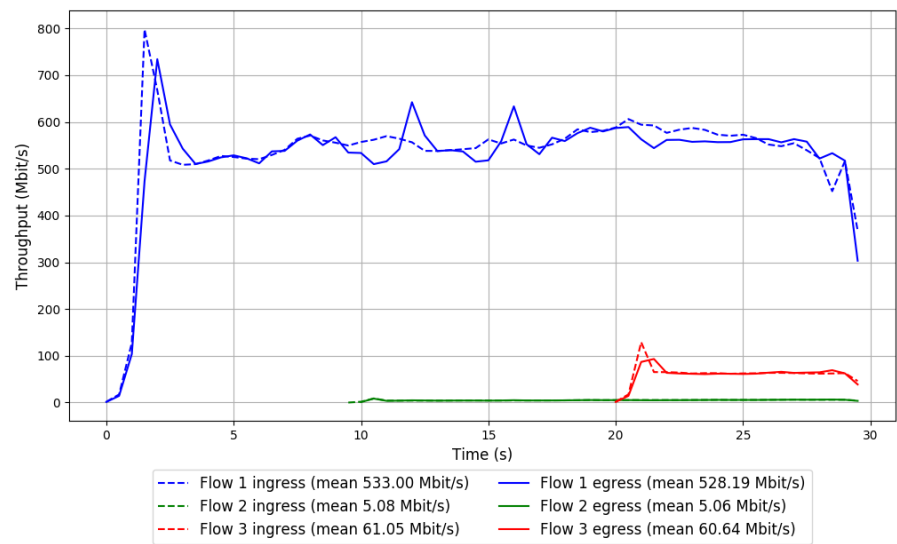


```
Run 9: Statistics of PCC

Start at: 2017-12-01 04:02:56
End at: 2017-12-01 04:03:26

# Below is generated by plot.py at 2017-12-01 06:54:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 551.39 Mbit/s
95th percentile per-packet one-way delay: 167.243 ms
Loss rate: 1.27%
-- Flow 1:
Average throughput: 528.19 Mbit/s
95th percentile per-packet one-way delay: 167.796 ms
Loss rate: 1.25%
-- Flow 2:
Average throughput: 5.06 Mbit/s
95th percentile per-packet one-way delay: 165.755 ms
Loss rate: 1.03%
-- Flow 3:
Average throughput: 60.64 Mbit/s
95th percentile per-packet one-way delay: 165.941 ms
Loss rate: 1.70%
```

Run 9: Report of PCC — Data Link

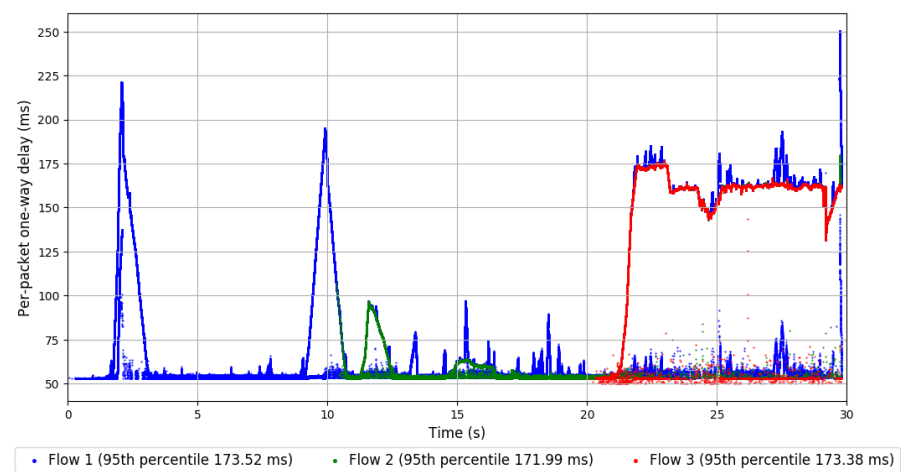
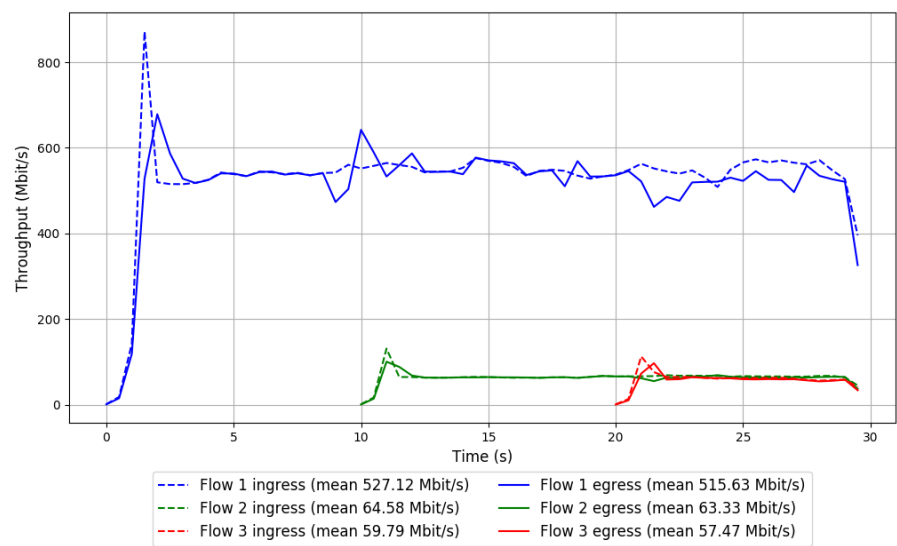


```
Run 10: Statistics of PCC

Start at: 2017-12-01 04:15:15
End at: 2017-12-01 04:15:45

# Below is generated by plot.py at 2017-12-01 06:55:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 576.33 Mbit/s
95th percentile per-packet one-way delay: 173.362 ms
Loss rate: 2.61%
-- Flow 1:
Average throughput: 515.63 Mbit/s
95th percentile per-packet one-way delay: 173.523 ms
Loss rate: 2.53%
-- Flow 2:
Average throughput: 63.33 Mbit/s
95th percentile per-packet one-way delay: 171.988 ms
Loss rate: 2.46%
-- Flow 3:
Average throughput: 57.47 Mbit/s
95th percentile per-packet one-way delay: 173.377 ms
Loss rate: 4.93%
```

Run 10: Report of PCC — Data Link

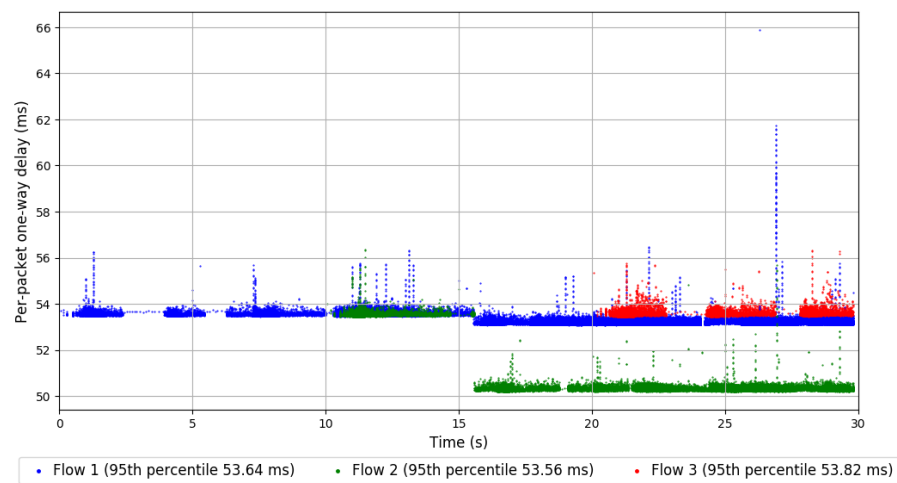
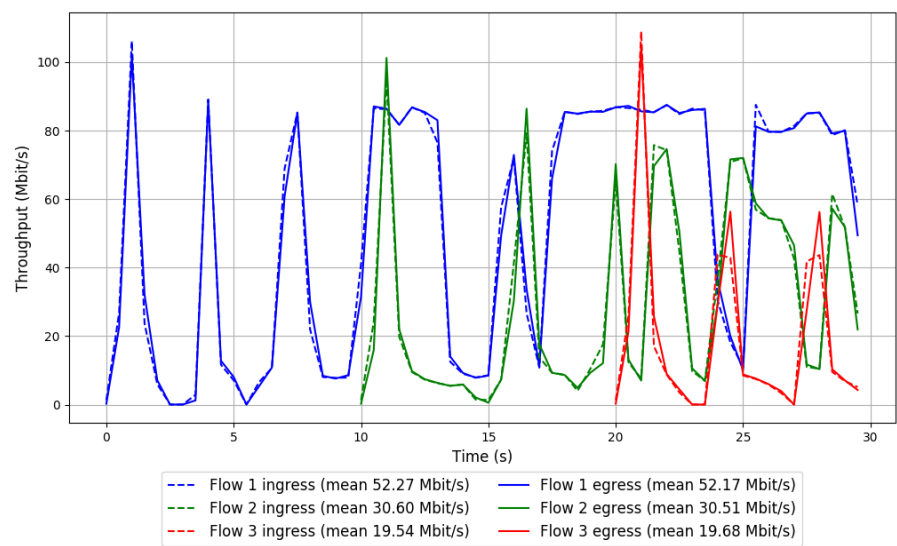


```
Run 1: Statistics of QUIC Cubic

Start at: 2017-12-01 02:18:29
End at: 2017-12-01 02:18:59

# Below is generated by plot.py at 2017-12-01 06:55:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 78.84 Mbit/s
95th percentile per-packet one-way delay: 53.653 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 52.17 Mbit/s
95th percentile per-packet one-way delay: 53.636 ms
Loss rate: 0.56%
-- Flow 2:
Average throughput: 30.51 Mbit/s
95th percentile per-packet one-way delay: 53.561 ms
Loss rate: 0.81%
-- Flow 3:
Average throughput: 19.68 Mbit/s
95th percentile per-packet one-way delay: 53.816 ms
Loss rate: 0.39%
```


Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2017-12-01 02:30:25

End at: 2017-12-01 02:30:55

Below is generated by plot.py at 2017-12-01 06:55:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.64 Mbit/s

95th percentile per-packet one-way delay: 53.545 ms

Loss rate: 0.62%

-- Flow 1:

Average throughput: 47.97 Mbit/s

95th percentile per-packet one-way delay: 50.456 ms

Loss rate: 0.40%

-- Flow 2:

Average throughput: 59.58 Mbit/s

95th percentile per-packet one-way delay: 50.372 ms

Loss rate: 0.39%

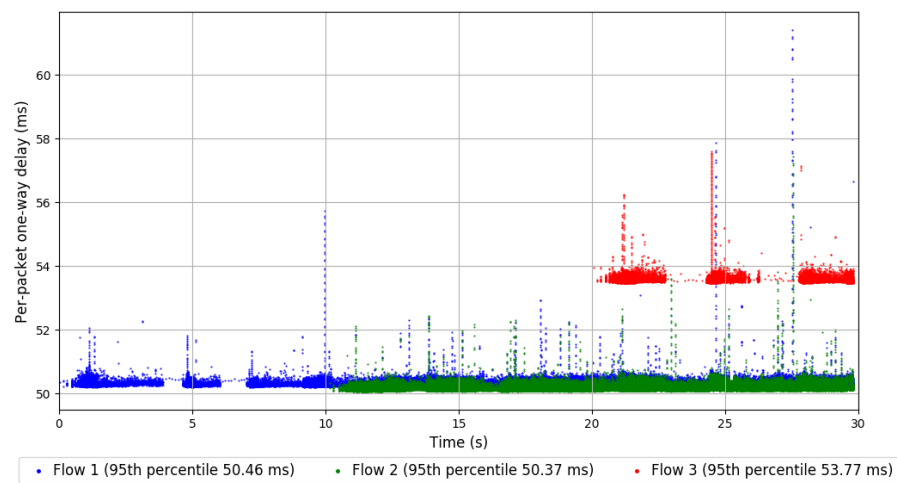
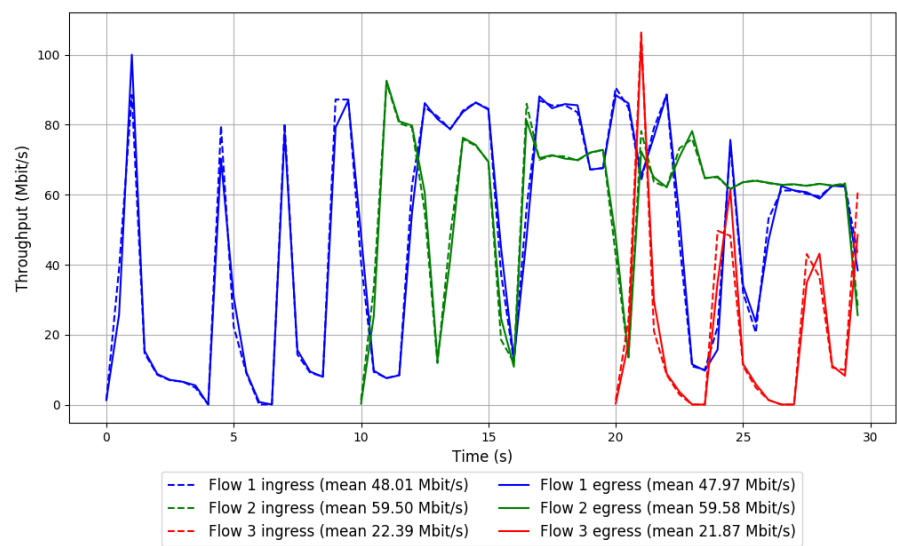
-- Flow 3:

Average throughput: 21.87 Mbit/s

95th percentile per-packet one-way delay: 53.775 ms

Loss rate: 3.34%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2017-12-01 02:42:37

End at: 2017-12-01 02:43:07

Below is generated by plot.py at 2017-12-01 06:55:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 100.22 Mbit/s

95th percentile per-packet one-way delay: 53.470 ms

Loss rate: 0.61%

-- Flow 1:

Average throughput: 49.17 Mbit/s

95th percentile per-packet one-way delay: 53.241 ms

Loss rate: 0.34%

-- Flow 2:

Average throughput: 47.60 Mbit/s

95th percentile per-packet one-way delay: 53.205 ms

Loss rate: 0.70%

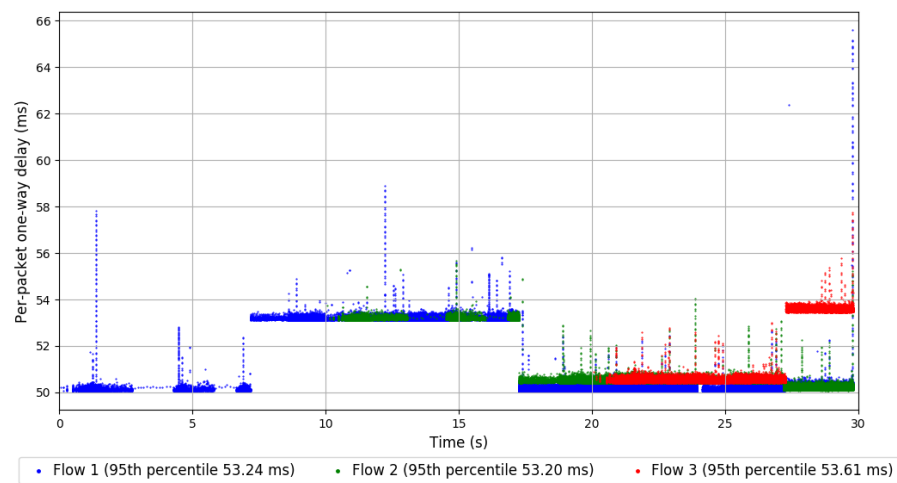
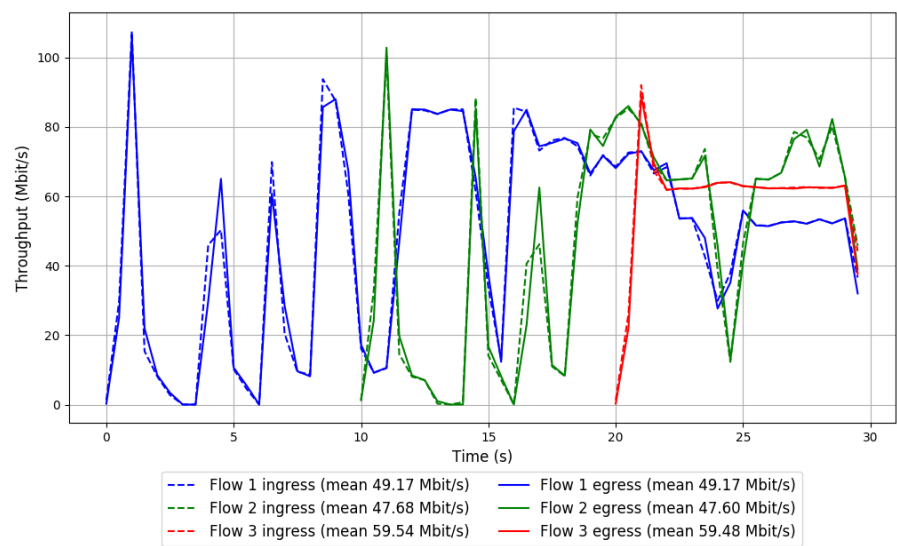
-- Flow 3:

Average throughput: 59.48 Mbit/s

95th percentile per-packet one-way delay: 53.607 ms

Loss rate: 1.14%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2017-12-01 02:54:41

End at: 2017-12-01 02:55:11

Below is generated by plot.py at 2017-12-01 06:55:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 101.43 Mbit/s

95th percentile per-packet one-way delay: 53.262 ms

Loss rate: 0.53%

-- Flow 1:

Average throughput: 74.33 Mbit/s

95th percentile per-packet one-way delay: 52.931 ms

Loss rate: 0.40%

-- Flow 2:

Average throughput: 24.39 Mbit/s

95th percentile per-packet one-way delay: 53.392 ms

Loss rate: 0.13%

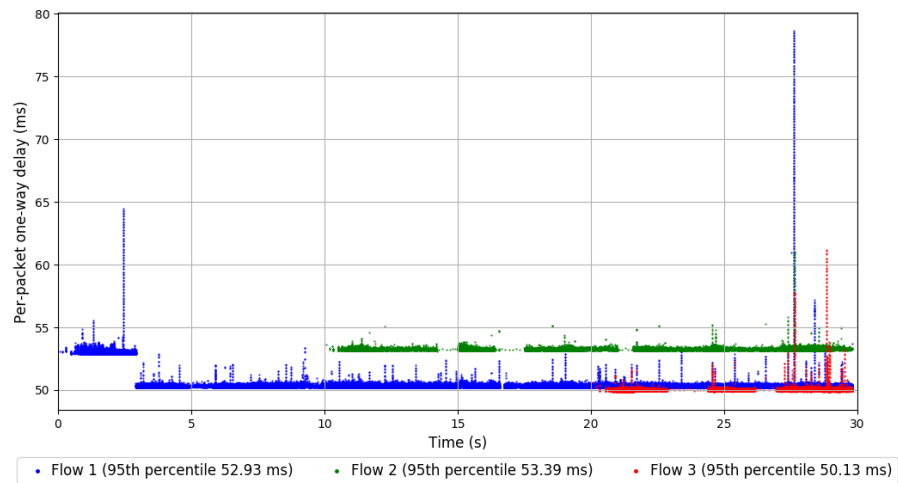
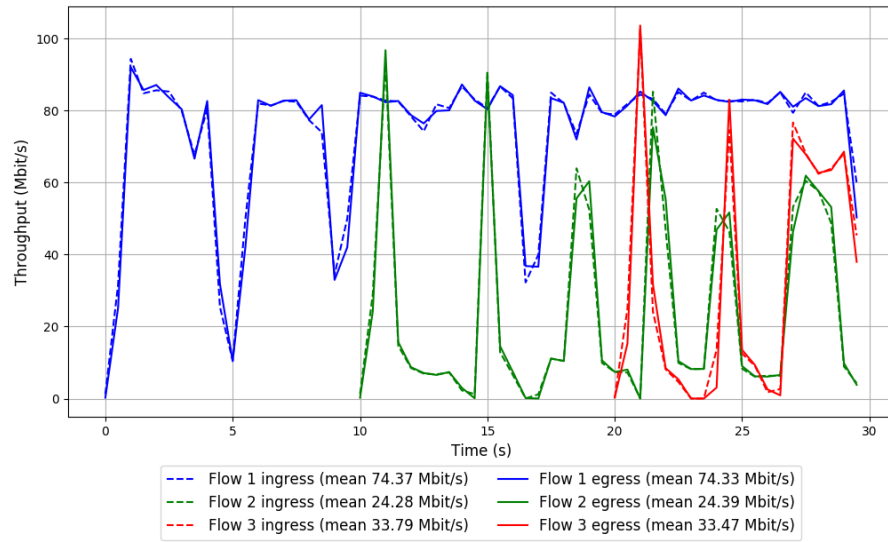
-- Flow 3:

Average throughput: 33.47 Mbit/s

95th percentile per-packet one-way delay: 50.128 ms

Loss rate: 2.03%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2017-12-01 03:06:59

End at: 2017-12-01 03:07:29

Below is generated by plot.py at 2017-12-01 06:55:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 113.70 Mbit/s

95th percentile per-packet one-way delay: 50.746 ms

Loss rate: 0.62%

-- Flow 1:

Average throughput: 53.24 Mbit/s

95th percentile per-packet one-way delay: 53.485 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 73.36 Mbit/s

95th percentile per-packet one-way delay: 50.691 ms

Loss rate: 0.61%

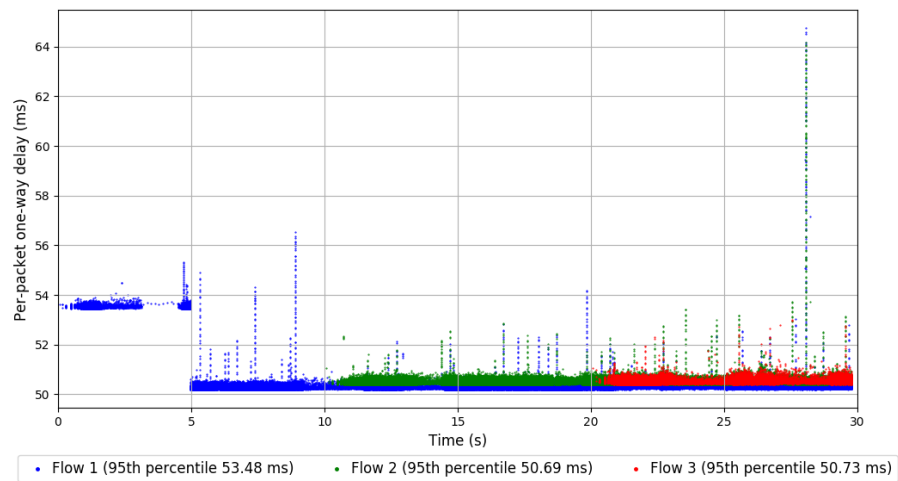
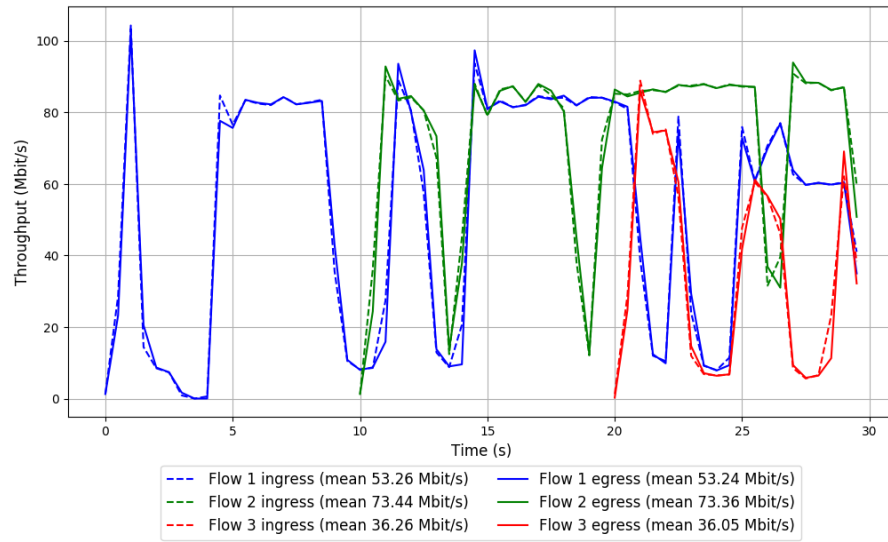
-- Flow 3:

Average throughput: 36.05 Mbit/s

95th percentile per-packet one-way delay: 50.727 ms

Loss rate: 1.66%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2017-12-01 03:19:24

End at: 2017-12-01 03:19:54

Below is generated by plot.py at 2017-12-01 06:55:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 69.71 Mbit/s

95th percentile per-packet one-way delay: 53.644 ms

Loss rate: 0.79%

-- Flow 1:

Average throughput: 36.57 Mbit/s

95th percentile per-packet one-way delay: 50.362 ms

Loss rate: 0.60%

-- Flow 2:

Average throughput: 41.58 Mbit/s

95th percentile per-packet one-way delay: 53.706 ms

Loss rate: 1.08%

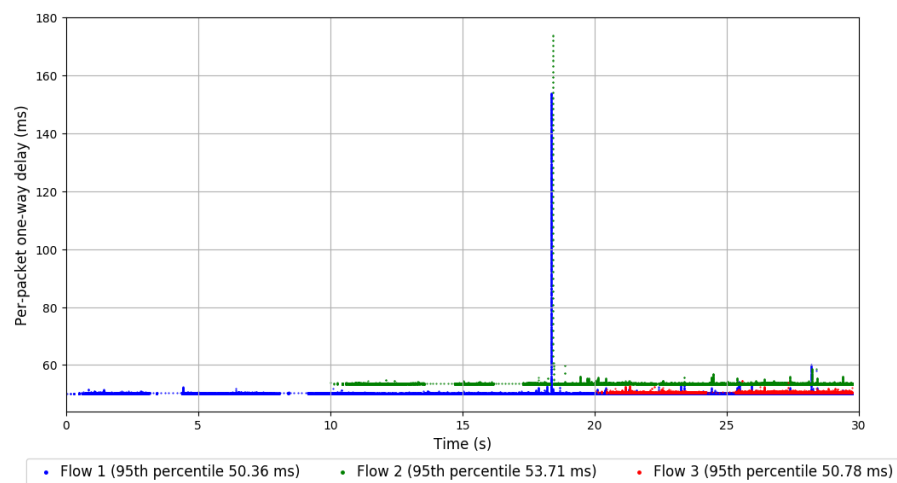
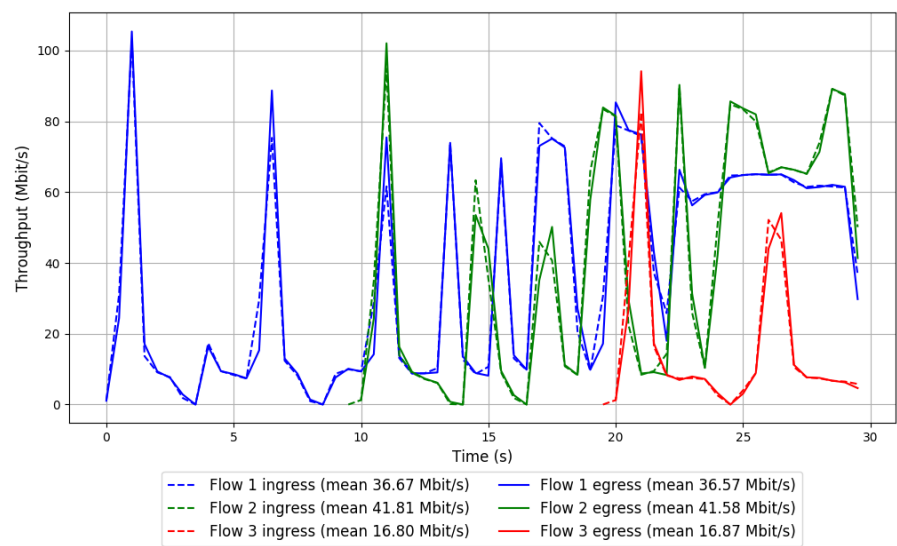
-- Flow 3:

Average throughput: 16.87 Mbit/s

95th percentile per-packet one-way delay: 50.784 ms

Loss rate: 0.62%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2017-12-01 03:31:34

End at: 2017-12-01 03:32:04

Below is generated by plot.py at 2017-12-01 06:55:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 71.54 Mbit/s

95th percentile per-packet one-way delay: 53.745 ms

Loss rate: 0.58%

-- Flow 1:

Average throughput: 19.49 Mbit/s

95th percentile per-packet one-way delay: 53.302 ms

Loss rate: 0.12%

-- Flow 2:

Average throughput: 48.13 Mbit/s

95th percentile per-packet one-way delay: 53.817 ms

Loss rate: 0.79%

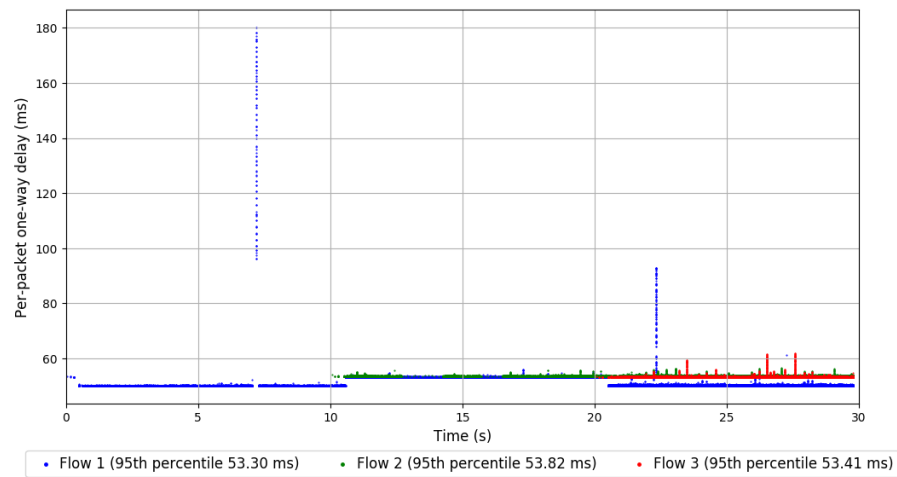
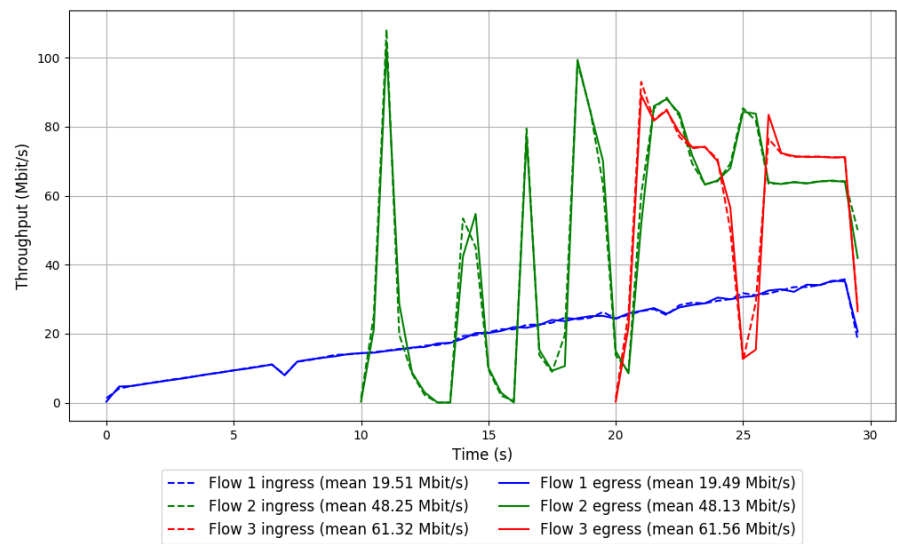
-- Flow 3:

Average throughput: 61.56 Mbit/s

95th percentile per-packet one-way delay: 53.409 ms

Loss rate: 0.70%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2017-12-01 03:43:46

End at: 2017-12-01 03:44:16

Below is generated by plot.py at 2017-12-01 06:55:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.93 Mbit/s

95th percentile per-packet one-way delay: 53.792 ms

Loss rate: 0.61%

-- Flow 1:

Average throughput: 50.56 Mbit/s

95th percentile per-packet one-way delay: 53.781 ms

Loss rate: 0.41%

-- Flow 2:

Average throughput: 49.08 Mbit/s

95th percentile per-packet one-way delay: 53.811 ms

Loss rate: 0.95%

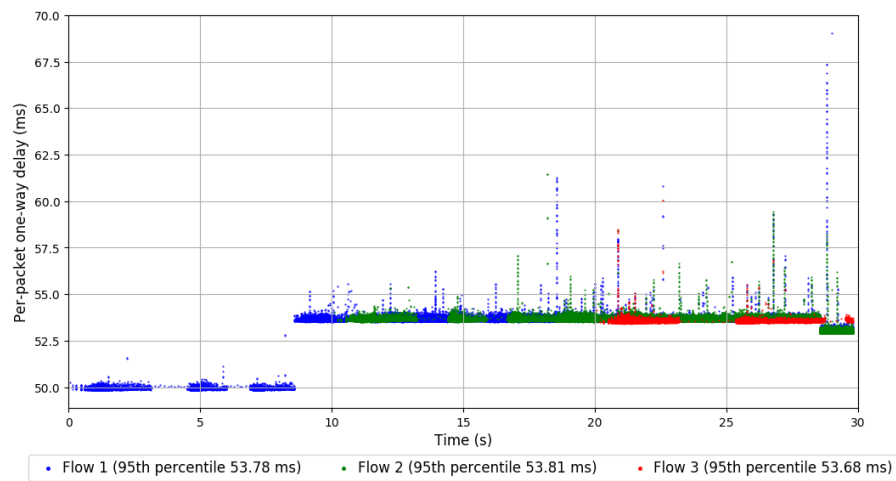
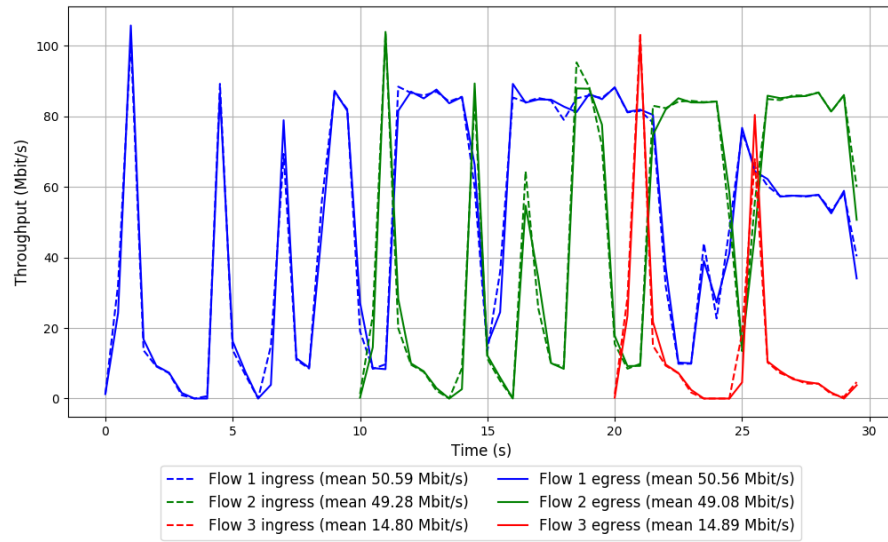
-- Flow 3:

Average throughput: 14.89 Mbit/s

95th percentile per-packet one-way delay: 53.679 ms

Loss rate: 0.47%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2017-12-01 03:55:51

End at: 2017-12-01 03:56:21

Below is generated by plot.py at 2017-12-01 06:55:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 90.54 Mbit/s

95th percentile per-packet one-way delay: 50.528 ms

Loss rate: 0.51%

-- Flow 1:

Average throughput: 52.29 Mbit/s

95th percentile per-packet one-way delay: 50.489 ms

Loss rate: 0.40%

-- Flow 2:

Average throughput: 48.58 Mbit/s

95th percentile per-packet one-way delay: 53.541 ms

Loss rate: 0.70%

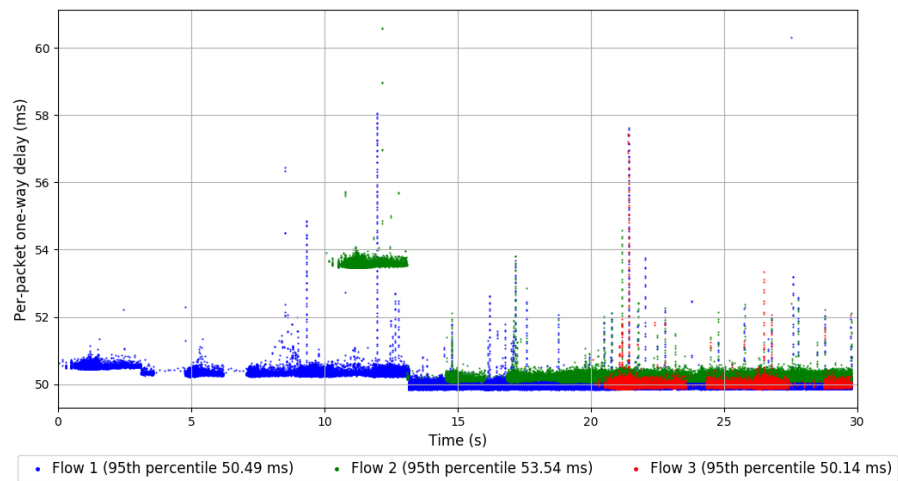
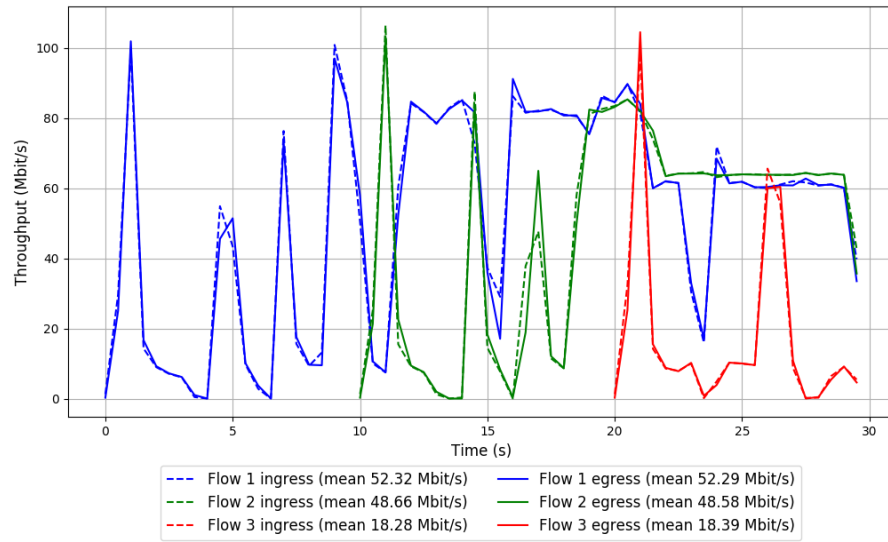
-- Flow 3:

Average throughput: 18.39 Mbit/s

95th percentile per-packet one-way delay: 50.141 ms

Loss rate: 0.47%

Run 9: Report of QUIC Cubic — Data Link

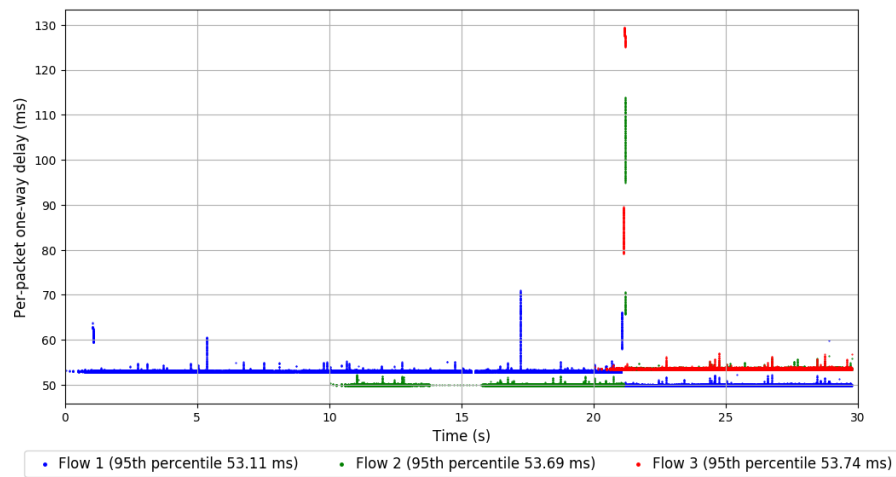
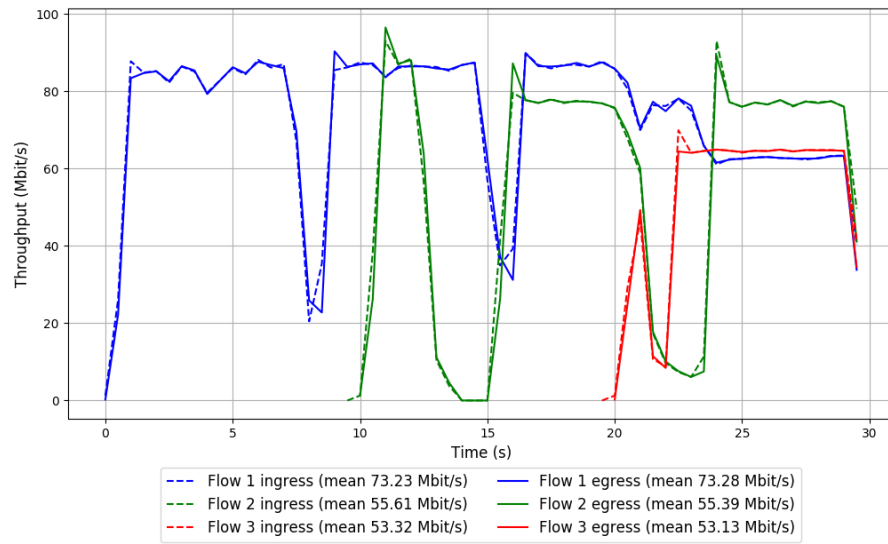


```
Run 10: Statistics of QUIC Cubic

Start at: 2017-12-01 04:08:03
End at: 2017-12-01 04:08:33

# Below is generated by plot.py at 2017-12-01 06:55:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 127.41 Mbit/s
95th percentile per-packet one-way delay: 53.636 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 73.28 Mbit/s
95th percentile per-packet one-way delay: 53.109 ms
Loss rate: 0.30%
-- Flow 2:
Average throughput: 55.39 Mbit/s
95th percentile per-packet one-way delay: 53.686 ms
Loss rate: 0.90%
-- Flow 3:
Average throughput: 53.13 Mbit/s
95th percentile per-packet one-way delay: 53.740 ms
Loss rate: 1.43%
```

Run 10: Report of QUIC Cubic — Data Link

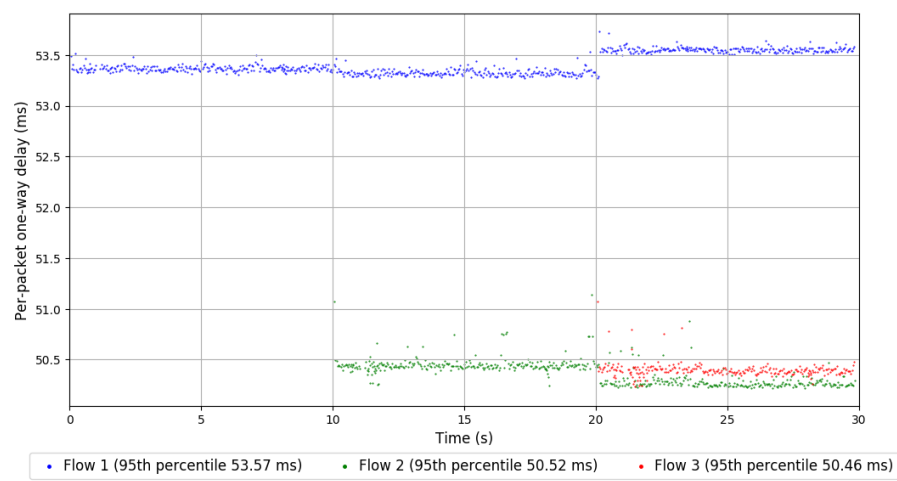
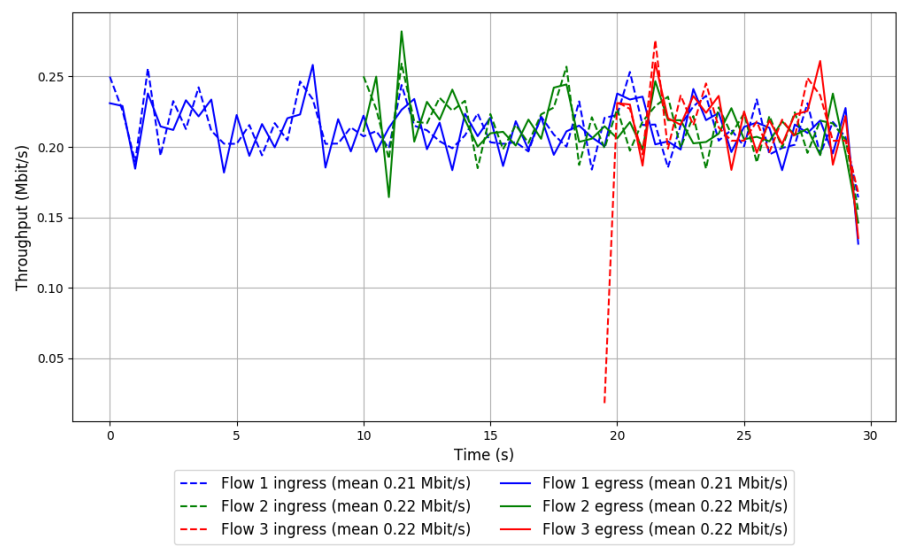


```
Run 1: Statistics of SCReAM

Start at: 2017-12-01 02:16:04
End at: 2017-12-01 02:16:34

# Below is generated by plot.py at 2017-12-01 06:55:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 53.562 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.573 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.516 ms
Loss rate: 0.43%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.461 ms
Loss rate: 1.11%
```

Run 1: Report of SReAM — Data Link

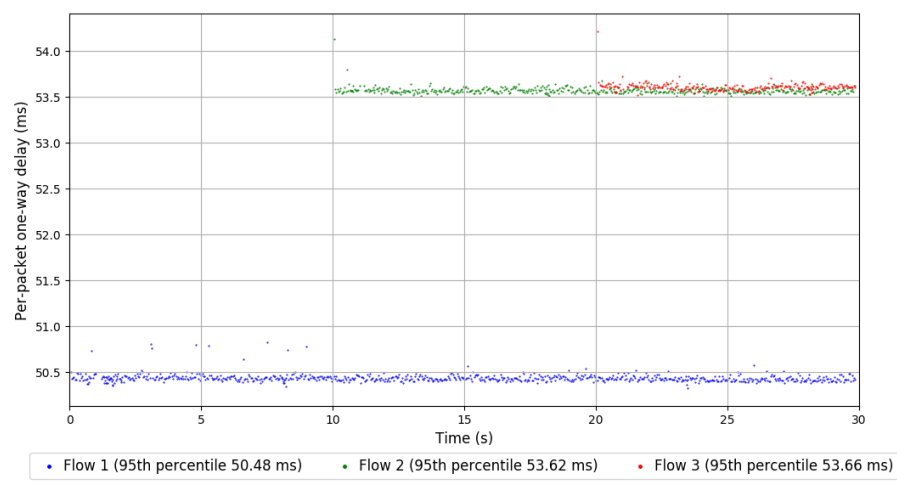
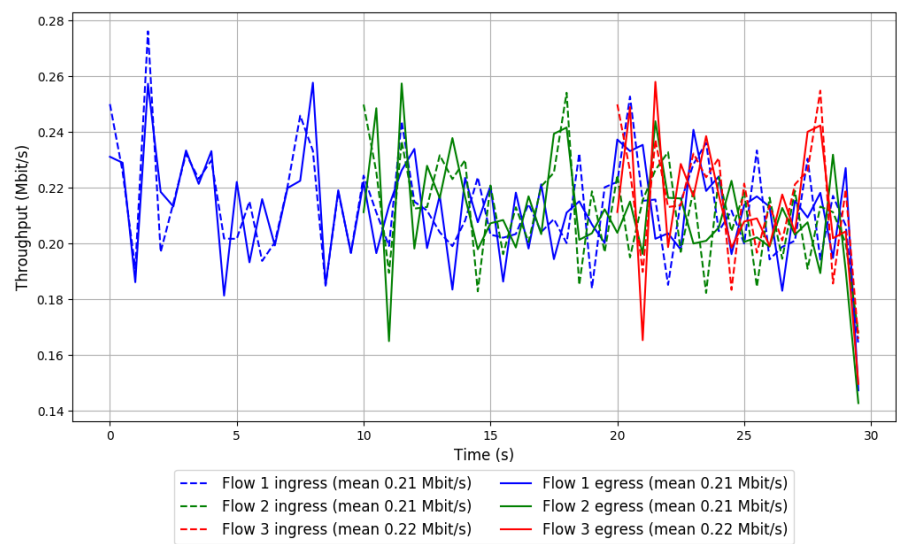


```
Run 2: Statistics of SCReAM

Start at: 2017-12-01 02:28:00
End at: 2017-12-01 02:28:30

# Below is generated by plot.py at 2017-12-01 06:55:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 53.621 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 50.484 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.616 ms
Loss rate: 0.63%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 53.655 ms
Loss rate: 1.11%
```

Run 2: Report of SReAM — Data Link

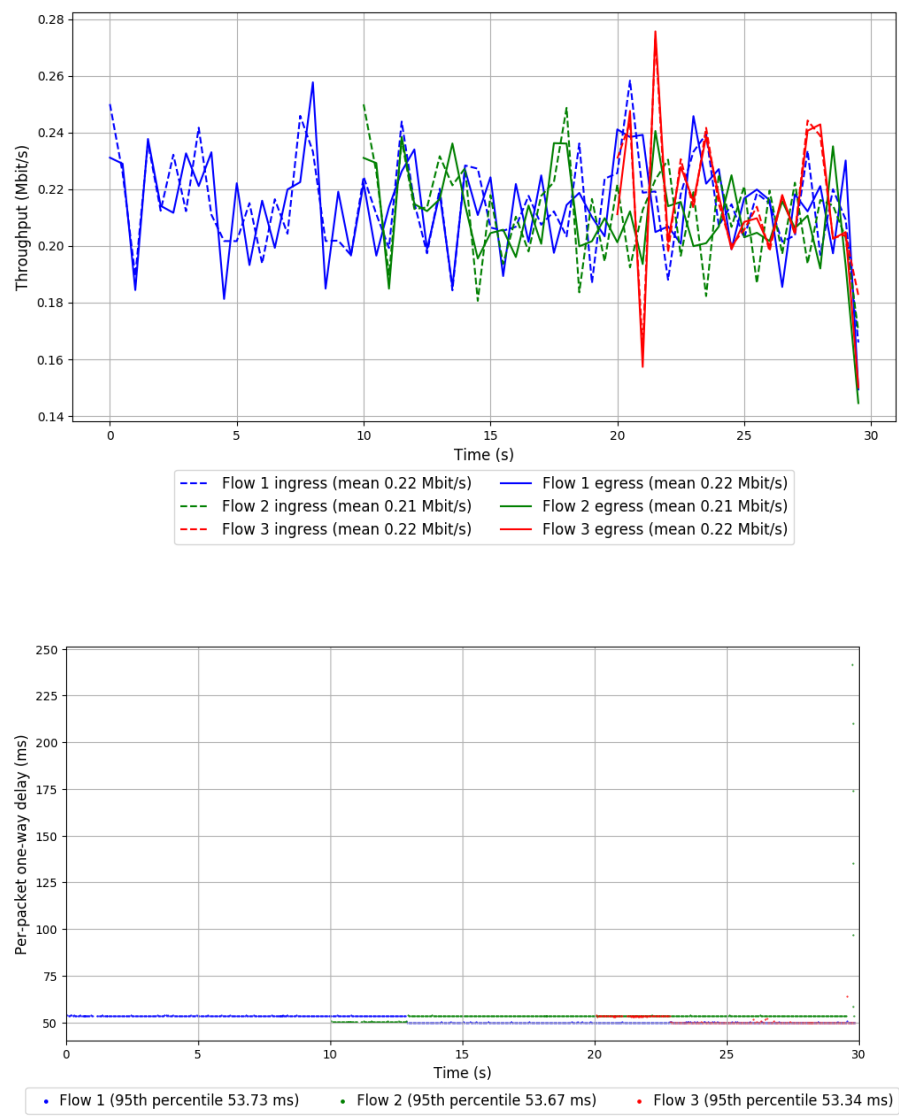


```
Run 3: Statistics of SCReAM

Start at: 2017-12-01 02:40:11
End at: 2017-12-01 02:40:41

# Below is generated by plot.py at 2017-12-01 06:55:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 53.720 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 53.734 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.667 ms
Loss rate: 0.63%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 53.338 ms
Loss rate: 1.11%
```


Run 3: Report of SReAM — Data Link

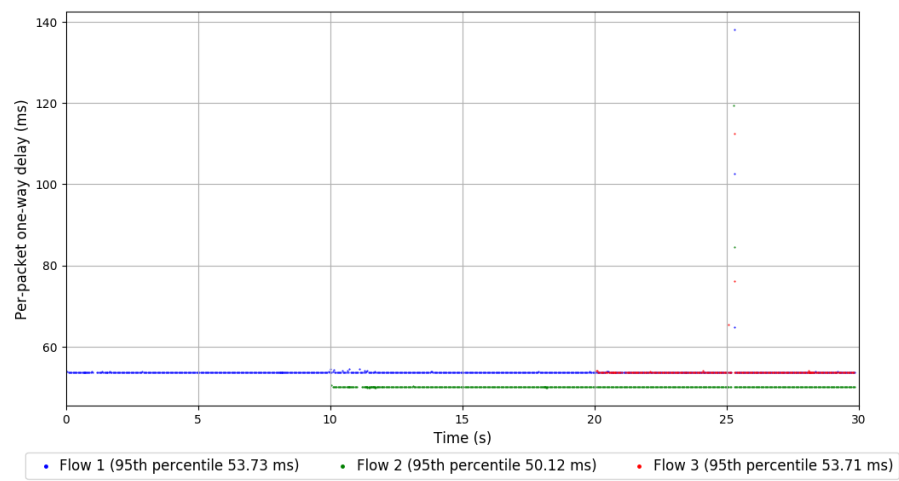
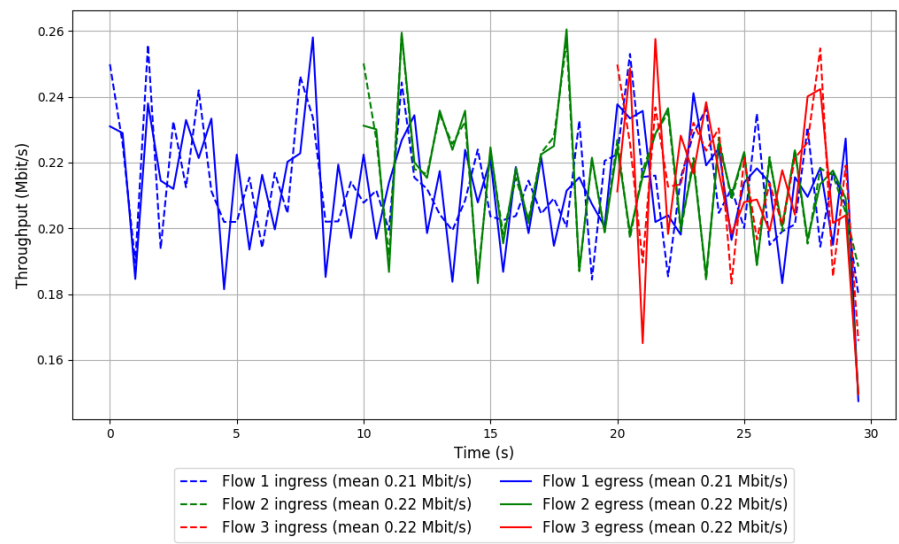


```
Run 4: Statistics of SCReAM

Start at: 2017-12-01 02:52:16
End at: 2017-12-01 02:52:46

# Below is generated by plot.py at 2017-12-01 06:55:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 53.709 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.732 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.116 ms
Loss rate: 0.61%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 53.710 ms
Loss rate: 1.11%
```

Run 4: Report of SReAM — Data Link

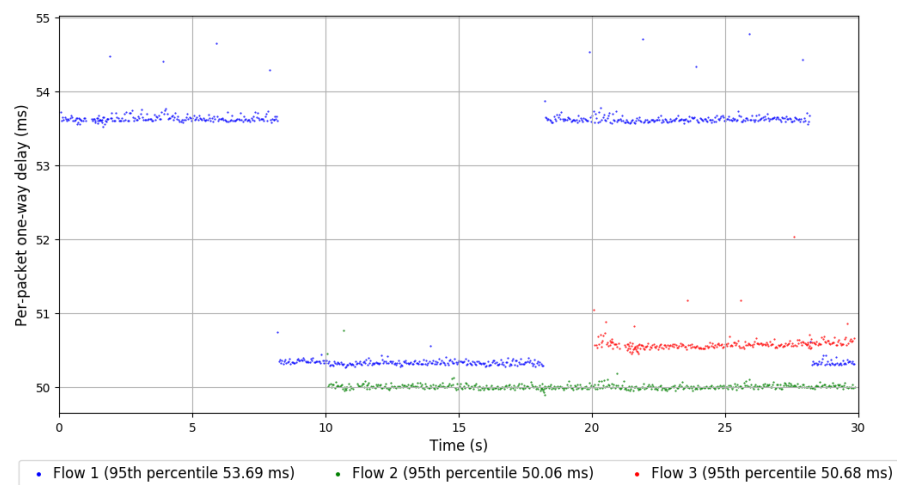
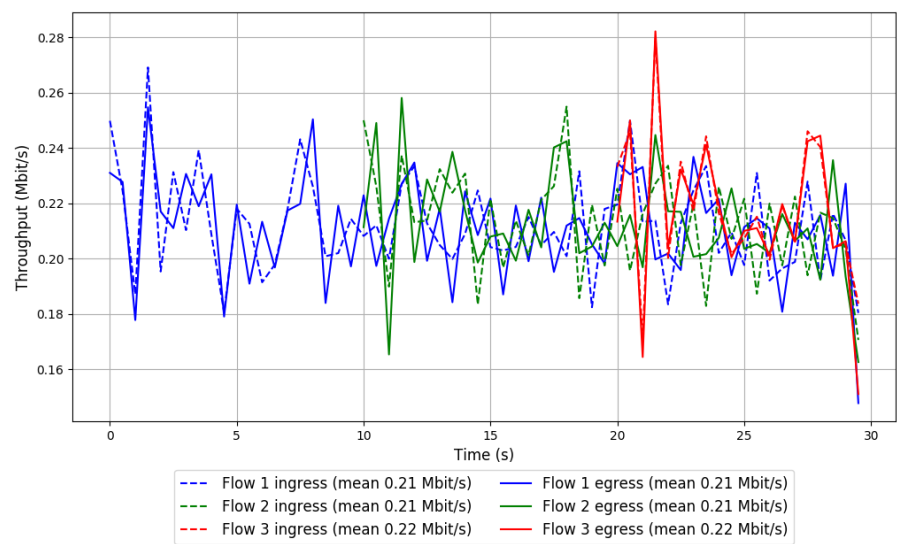


```
Run 5: Statistics of SCReAM

Start at: 2017-12-01 03:04:36
End at: 2017-12-01 03:05:06

# Below is generated by plot.py at 2017-12-01 06:55:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 53.662 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.693 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 50.056 ms
Loss rate: 0.43%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.680 ms
Loss rate: 1.11%
```

Run 5: Report of SReAM — Data Link

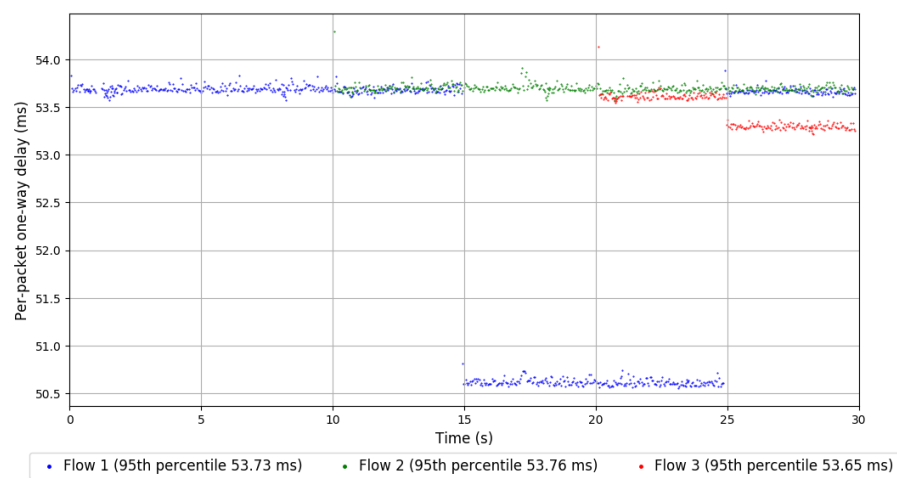
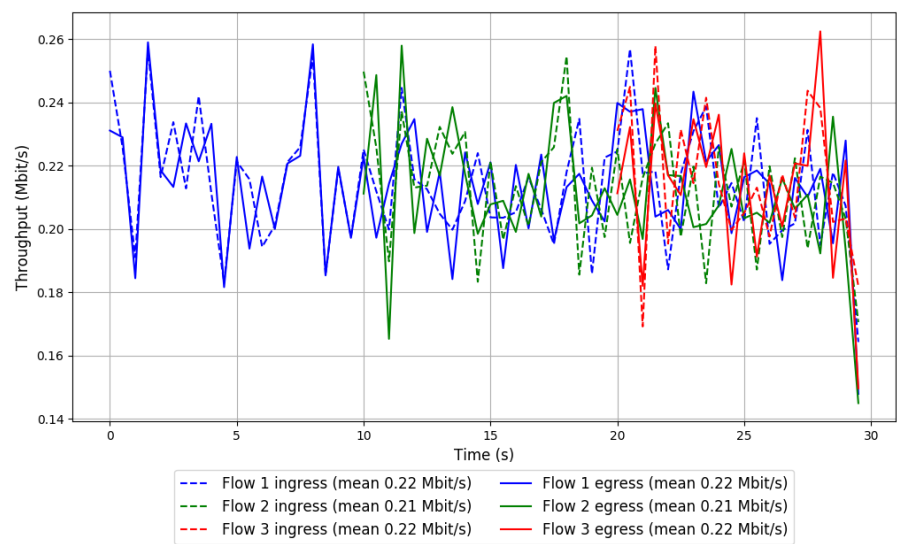


```
Run 6: Statistics of SCReAM

Start at: 2017-12-01 03:16:59
End at: 2017-12-01 03:17:30

# Below is generated by plot.py at 2017-12-01 06:55:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 53.741 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 53.734 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.756 ms
Loss rate: 0.63%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 53.651 ms
Loss rate: 1.11%
```

Run 6: Report of SReAM — Data Link

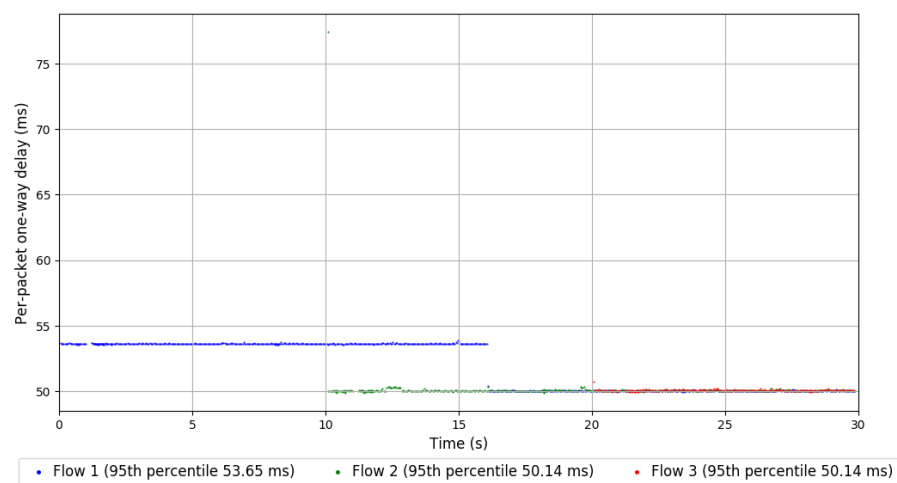
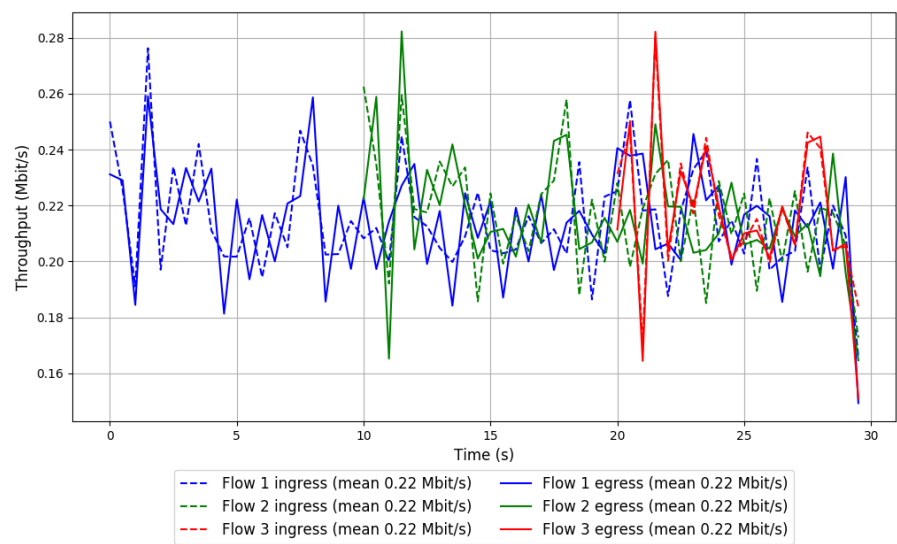


```
Run 7: Statistics of SReAM

Start at: 2017-12-01 03:29:08
End at: 2017-12-01 03:29:38

# Below is generated by plot.py at 2017-12-01 06:55:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 53.638 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 53.650 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.140 ms
Loss rate: 0.42%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.137 ms
Loss rate: 1.11%
```


Run 7: Report of SReAM — Data Link

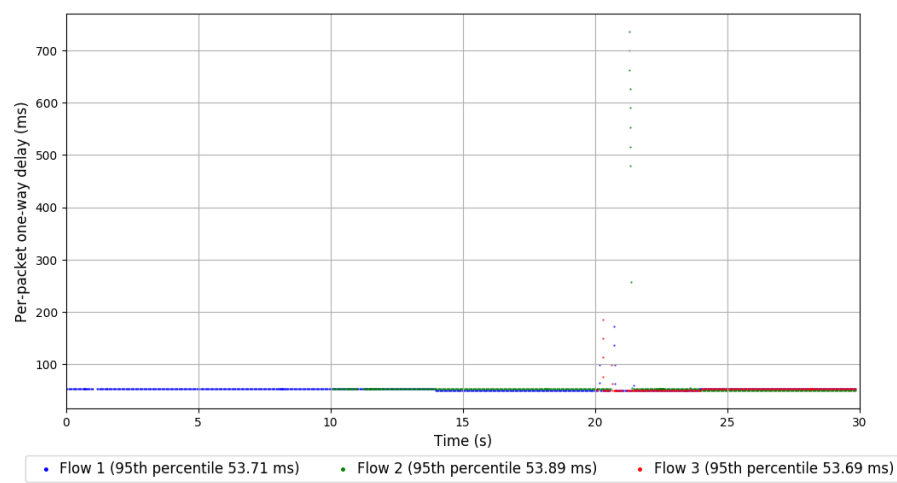
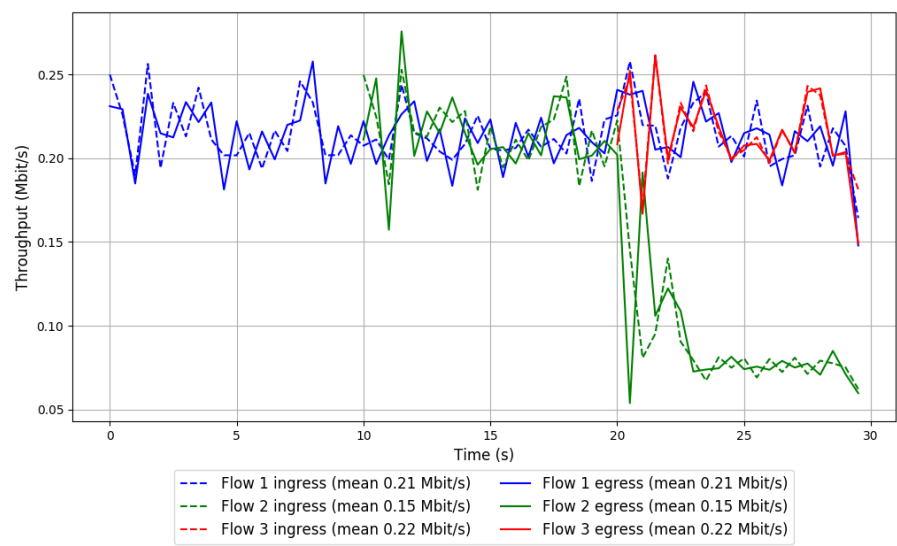


```
Run 8: Statistics of SCReAM

Start at: 2017-12-01 03:41:20
End at: 2017-12-01 03:41:50

# Below is generated by plot.py at 2017-12-01 06:55:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.39 Mbit/s
95th percentile per-packet one-way delay: 53.734 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.714 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 53.891 ms
Loss rate: 0.21%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 53.688 ms
Loss rate: 1.11%
```

Run 8: Report of SCRaM — Data Link

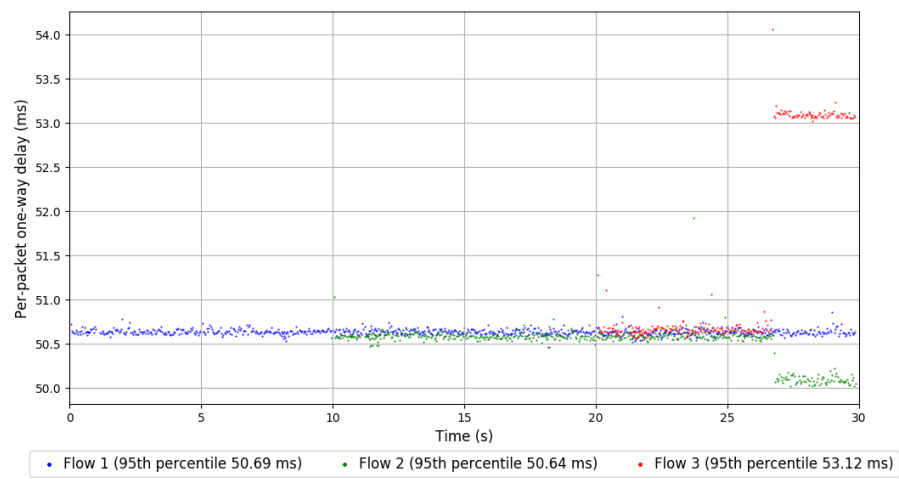
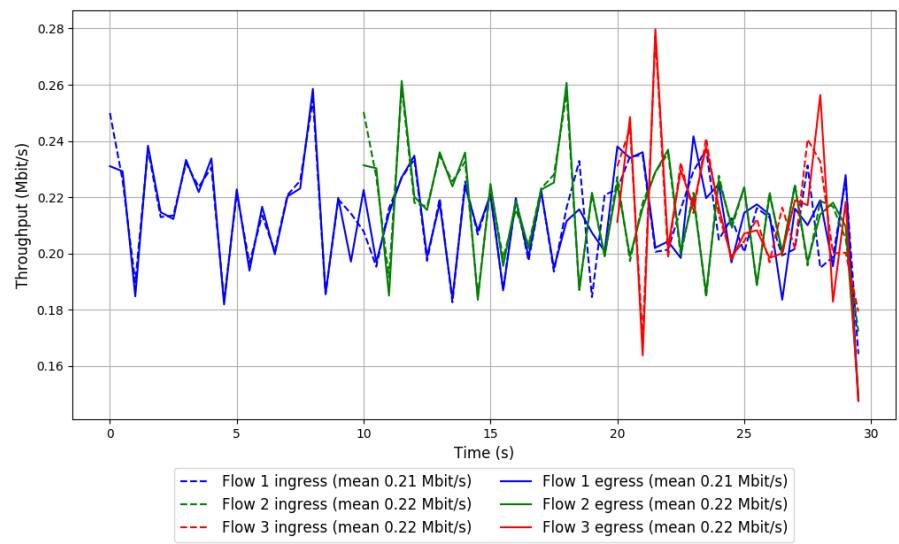


```
Run 9: Statistics of SCReAM

Start at: 2017-12-01 03:53:28
End at: 2017-12-01 03:53:58

# Below is generated by plot.py at 2017-12-01 06:55:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 53.056 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 50.687 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.636 ms
Loss rate: 0.42%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 53.118 ms
Loss rate: 1.10%
```

Run 9: Report of SReAM — Data Link

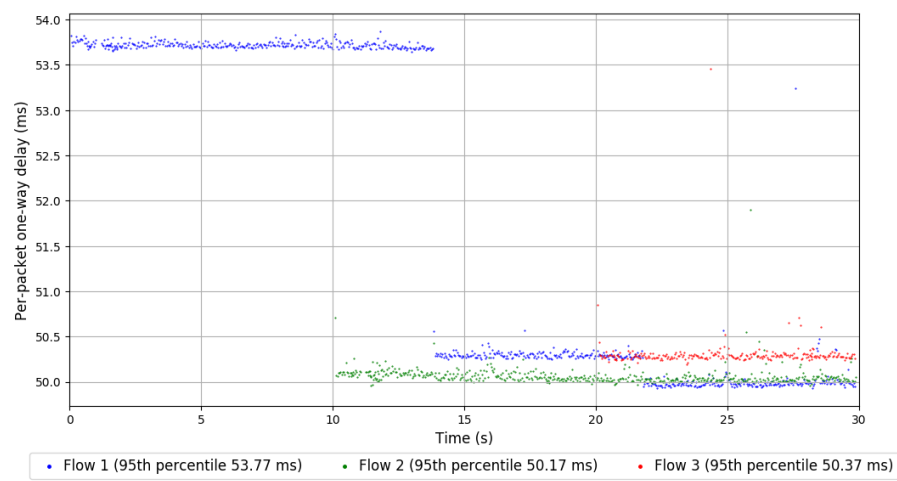
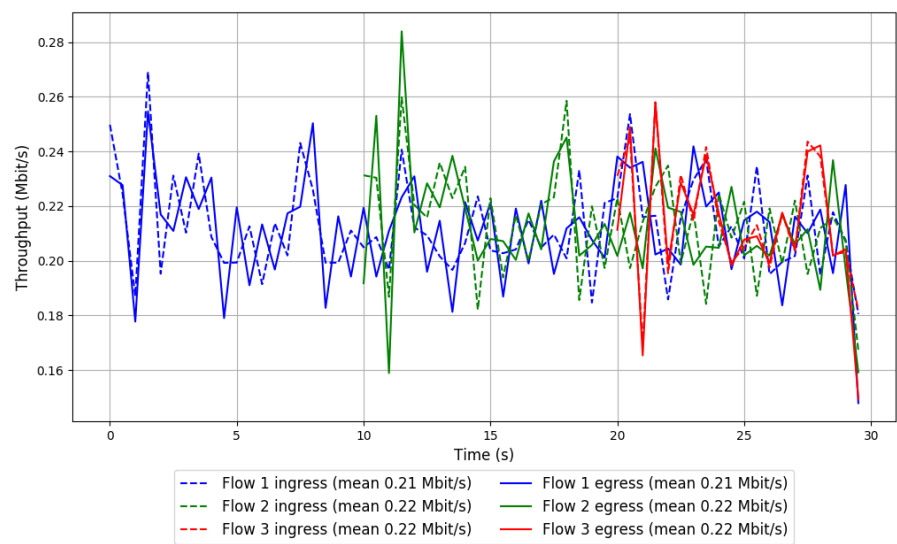


```
Run 10: Statistics of SReAM

Start at: 2017-12-01 04:05:41
End at: 2017-12-01 04:06:11

# Below is generated by plot.py at 2017-12-01 06:55:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 53.746 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.766 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.166 ms
Loss rate: 0.43%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.369 ms
Loss rate: 1.11%
```

Run 10: Report of SReAM — Data Link

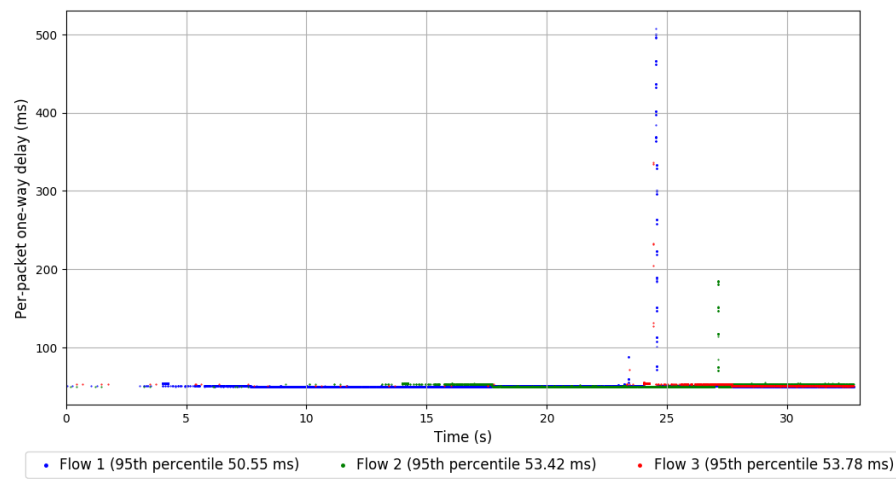
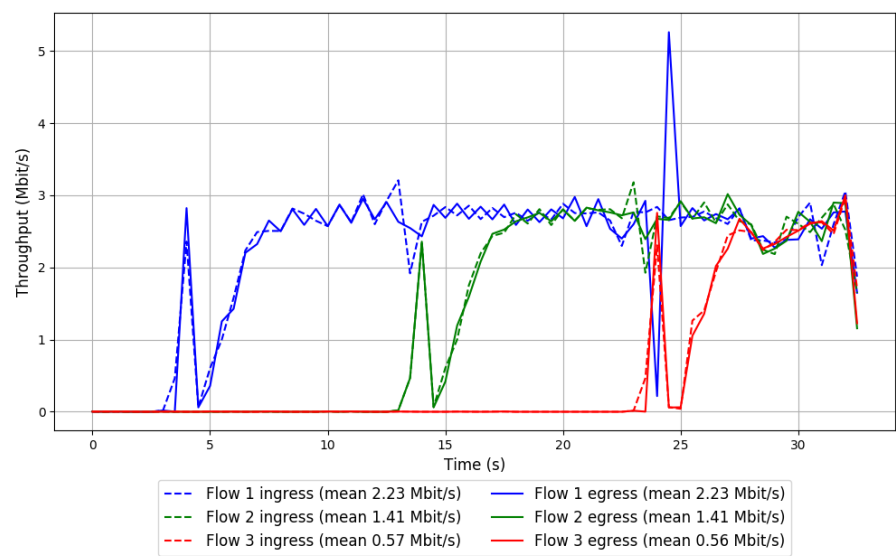


```
Run 1: Statistics of WebRTC media

Start at: 2017-12-01 02:27:20
End at: 2017-12-01 02:27:50

# Below is generated by plot.py at 2017-12-01 06:55:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.19 Mbit/s
95th percentile per-packet one-way delay: 53.384 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 2.23 Mbit/s
95th percentile per-packet one-way delay: 50.551 ms
Loss rate: 0.41%
-- Flow 2:
Average throughput: 1.41 Mbit/s
95th percentile per-packet one-way delay: 53.416 ms
Loss rate: 0.71%
-- Flow 3:
Average throughput: 0.56 Mbit/s
95th percentile per-packet one-way delay: 53.784 ms
Loss rate: 1.93%
```


Run 1: Report of WebRTC media — Data Link

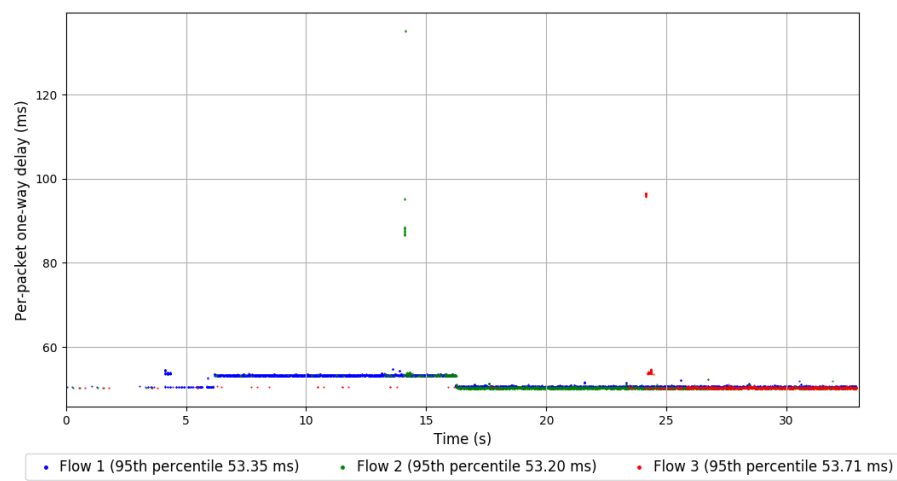
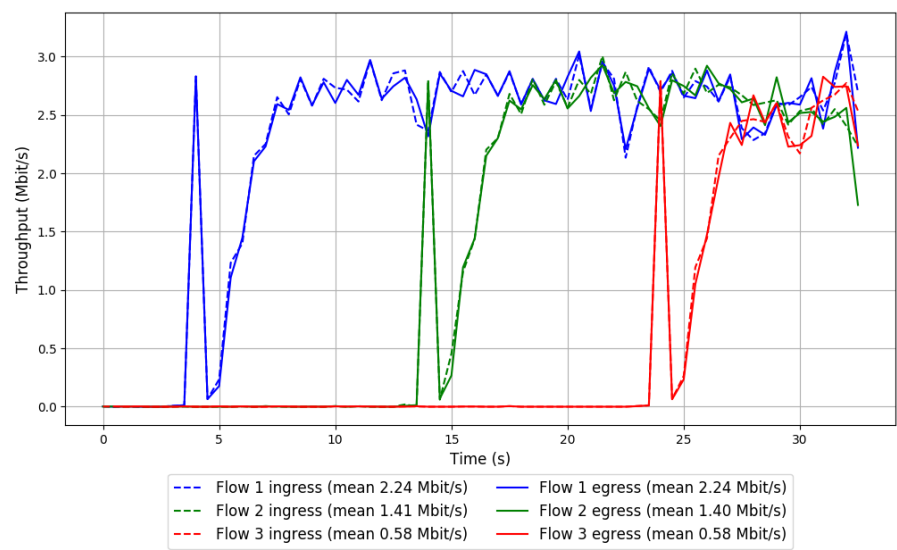


```
Run 2: Statistics of WebRTC media

Start at: 2017-12-01 02:39:31
End at: 2017-12-01 02:40:01

# Below is generated by plot.py at 2017-12-01 06:55:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.20 Mbit/s
95th percentile per-packet one-way delay: 53.336 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 2.24 Mbit/s
95th percentile per-packet one-way delay: 53.353 ms
Loss rate: 0.49%
-- Flow 2:
Average throughput: 1.40 Mbit/s
95th percentile per-packet one-way delay: 53.198 ms
Loss rate: 0.70%
-- Flow 3:
Average throughput: 0.58 Mbit/s
95th percentile per-packet one-way delay: 53.713 ms
Loss rate: 1.39%
```

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2017-12-01 02:51:36

End at: 2017-12-01 02:52:06

Below is generated by plot.py at 2017-12-01 06:55:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.22 Mbit/s

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

Loss rate: 0.43%

-- Flow 1:

Average throughput: 2.25 Mbit/s

95th percentile per-packet one-way delay: 53.718 ms

Loss rate: 0.19%

-- Flow 2:

Average throughput: 1.41 Mbit/s

95th percentile per-packet one-way delay: 50.757 ms

Loss rate: 0.47%

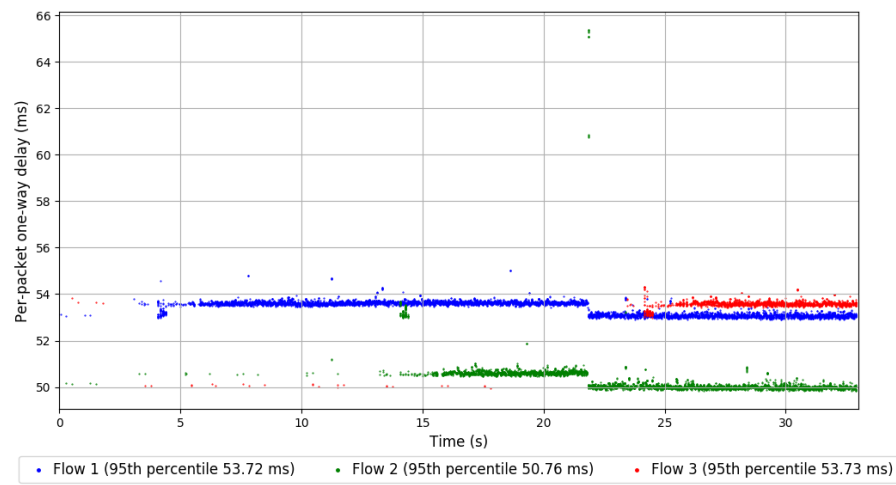
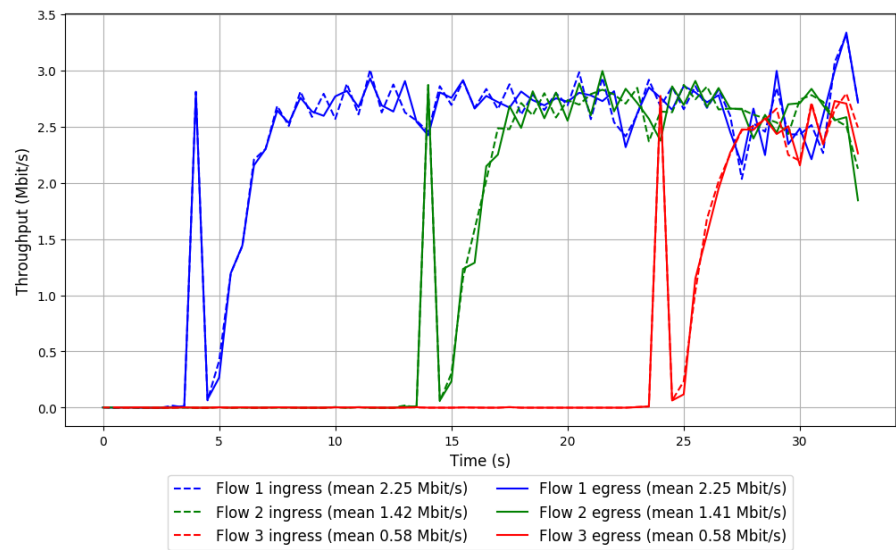
-- Flow 3:

Average throughput: 0.58 Mbit/s

95th percentile per-packet one-way delay: 53.729 ms

Loss rate: 1.25%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2017-12-01 03:03:56

End at: 2017-12-01 03:04:26

Below is generated by plot.py at 2017-12-01 06:55:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.19 Mbit/s

95th percentile per-packet one-way delay: 53.769 ms

Loss rate: 0.55%

-- Flow 1:

Average throughput: 2.25 Mbit/s

95th percentile per-packet one-way delay: 53.778 ms

Loss rate: 0.32%

-- Flow 2:

Average throughput: 1.40 Mbit/s

95th percentile per-packet one-way delay: 53.688 ms

Loss rate: 0.66%

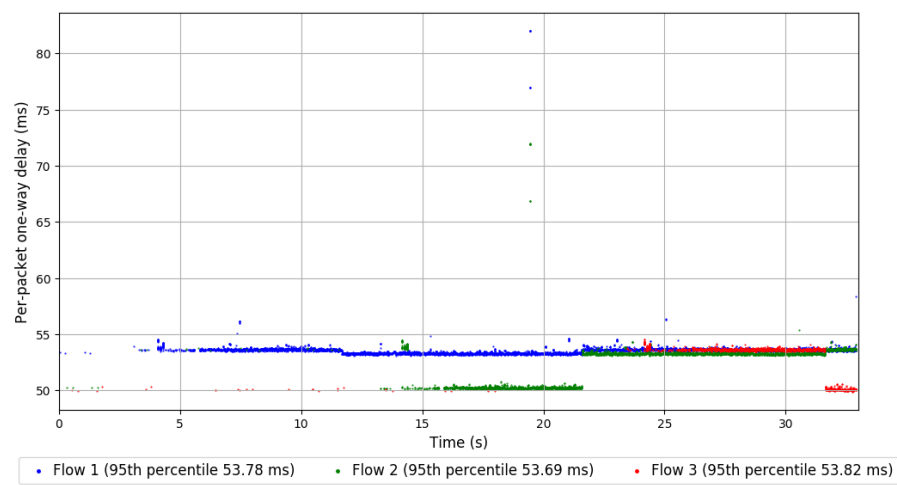
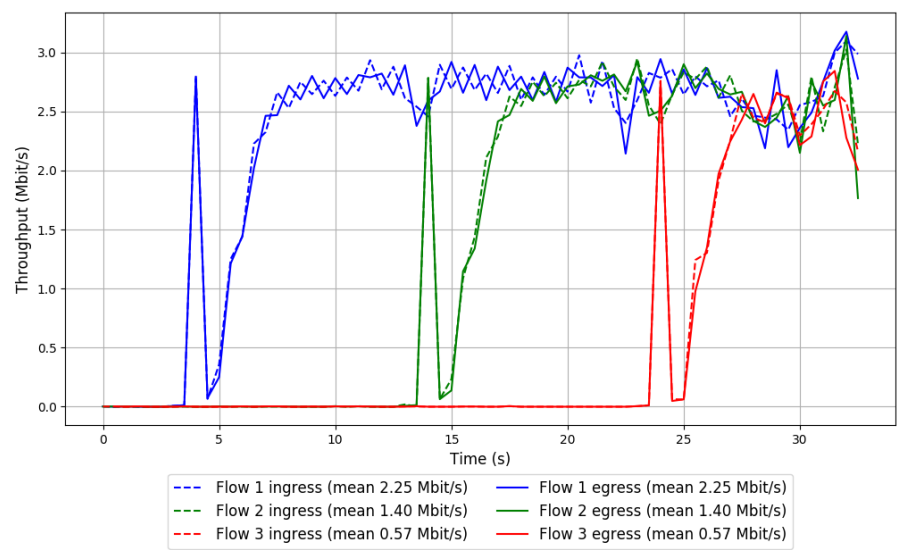
-- Flow 3:

Average throughput: 0.57 Mbit/s

95th percentile per-packet one-way delay: 53.823 ms

Loss rate: 1.23%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2017-12-01 03:16:19

End at: 2017-12-01 03:16:49

Below is generated by plot.py at 2017-12-01 06:55:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.20 Mbit/s

95th percentile per-packet one-way delay: 53.751 ms

Loss rate: 0.79%

-- Flow 1:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 53.417 ms

Loss rate: 0.50%

-- Flow 2:

Average throughput: 1.40 Mbit/s

95th percentile per-packet one-way delay: 53.796 ms

Loss rate: 0.84%

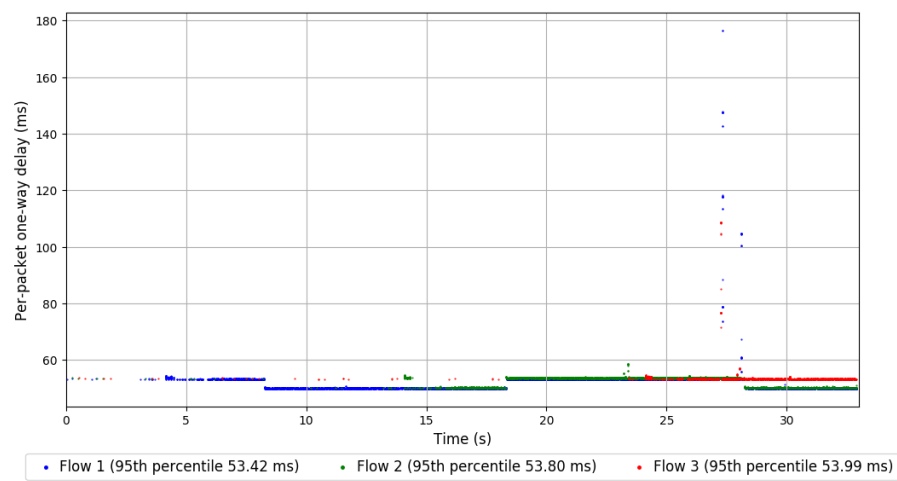
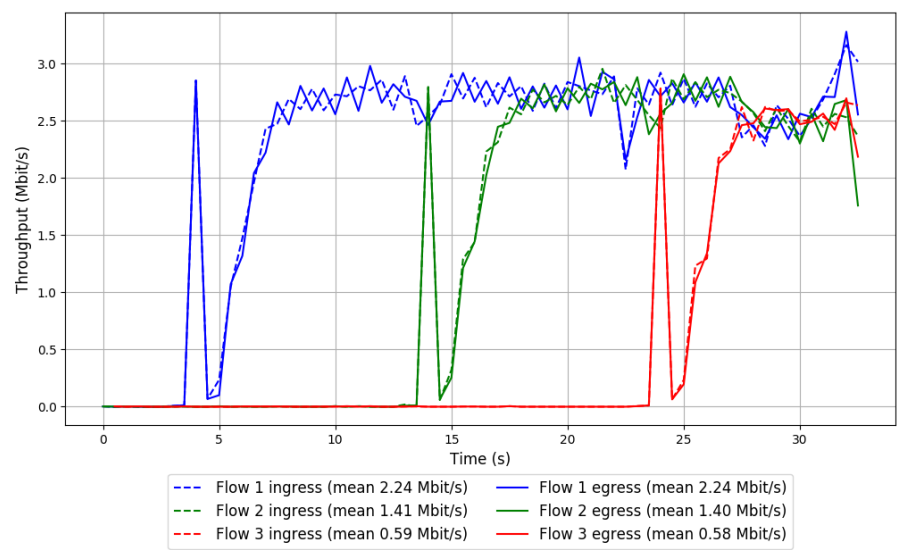
-- Flow 3:

Average throughput: 0.58 Mbit/s

95th percentile per-packet one-way delay: 53.991 ms

Loss rate: 1.78%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2017-12-01 03:28:28

End at: 2017-12-01 03:28:58

Below is generated by plot.py at 2017-12-01 06:55:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.44 Mbit/s

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

Loss rate: 0.76%

-- Flow 1:

Average throughput: 2.23 Mbit/s

95th percentile per-packet one-way delay: 53.830 ms

Loss rate: 0.53%

-- Flow 2:

Average throughput: 1.63 Mbit/s

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

Loss rate: 0.77%

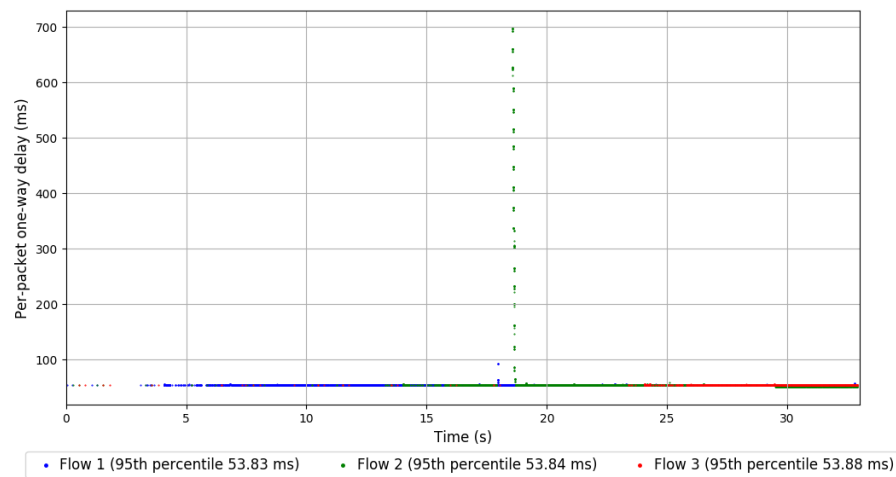
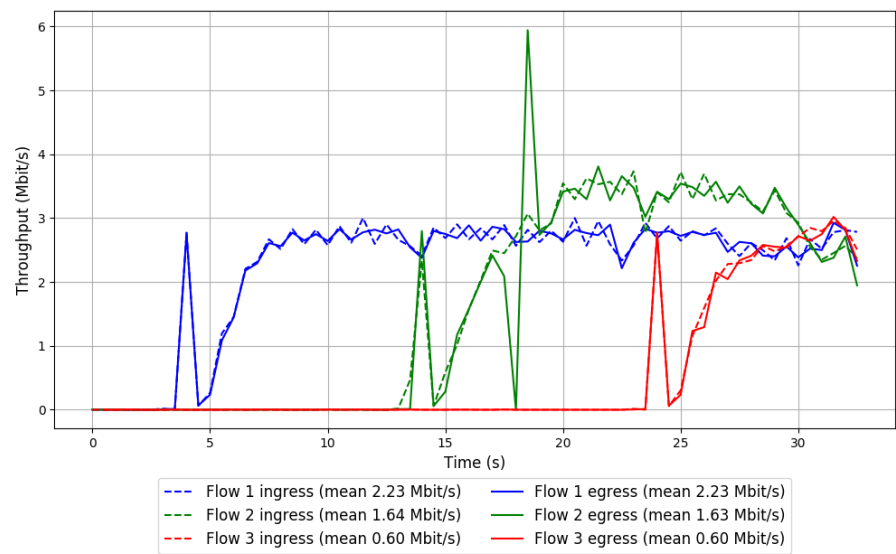
-- Flow 3:

Average throughput: 0.60 Mbit/s

95th percentile per-packet one-way delay: 53.879 ms

Loss rate: 1.59%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2017-12-01 03:40:40

End at: 2017-12-01 03:41:10

Below is generated by plot.py at 2017-12-01 06:55:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.20 Mbit/s

95th percentile per-packet one-way delay: 53.819 ms

Loss rate: 0.74%

-- Flow 1:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 53.840 ms

Loss rate: 0.48%

-- Flow 2:

Average throughput: 1.40 Mbit/s

95th percentile per-packet one-way delay: 53.753 ms

Loss rate: 0.73%

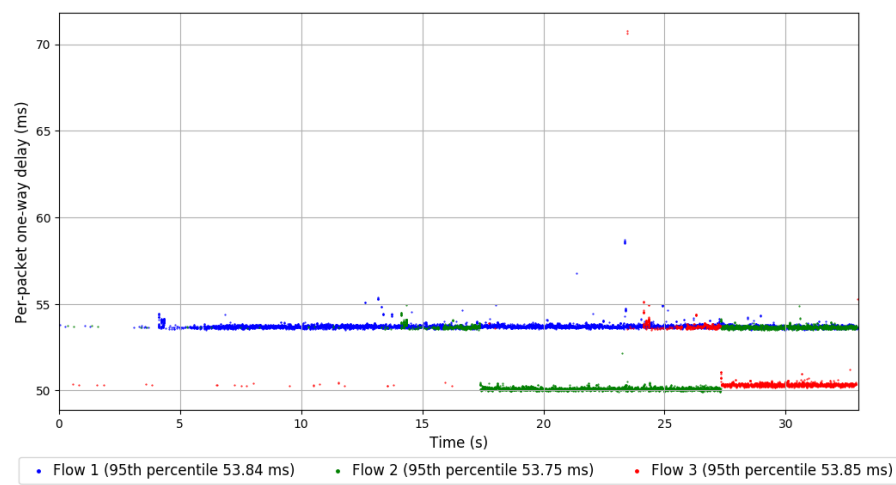
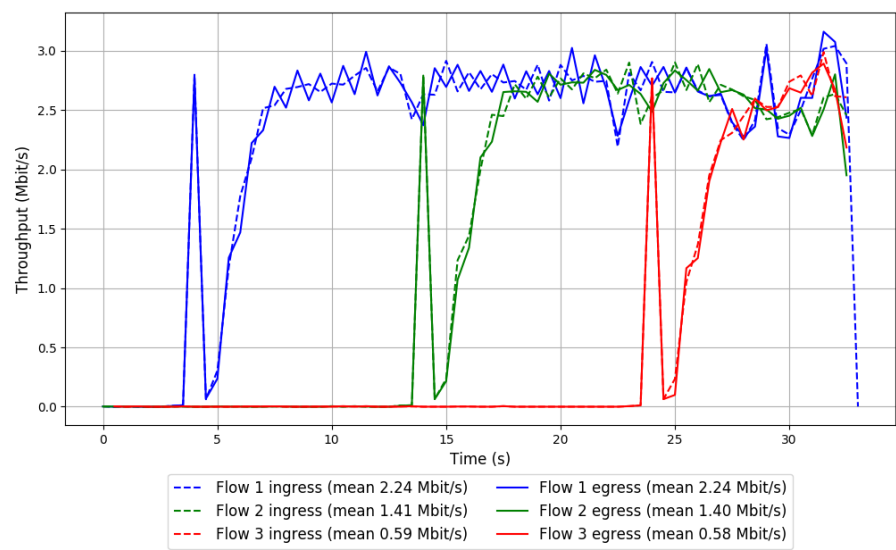
-- Flow 3:

Average throughput: 0.58 Mbit/s

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

Loss rate: 1.79%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2017-12-01 03:52:47

End at: 2017-12-01 03:53:17

Below is generated by plot.py at 2017-12-01 06:55:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.21 Mbit/s

95th percentile per-packet one-way delay: 53.774 ms

Loss rate: 0.67%

-- Flow 1:

Average throughput: 2.24 Mbit/s

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

Loss rate: 0.48%

-- Flow 2:

Average throughput: 1.41 Mbit/s

95th percentile per-packet one-way delay: 53.774 ms

Loss rate: 0.48%

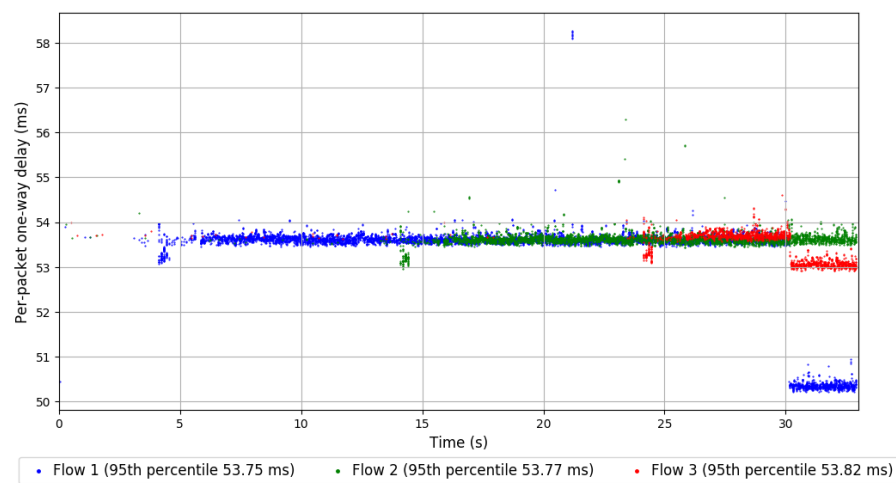
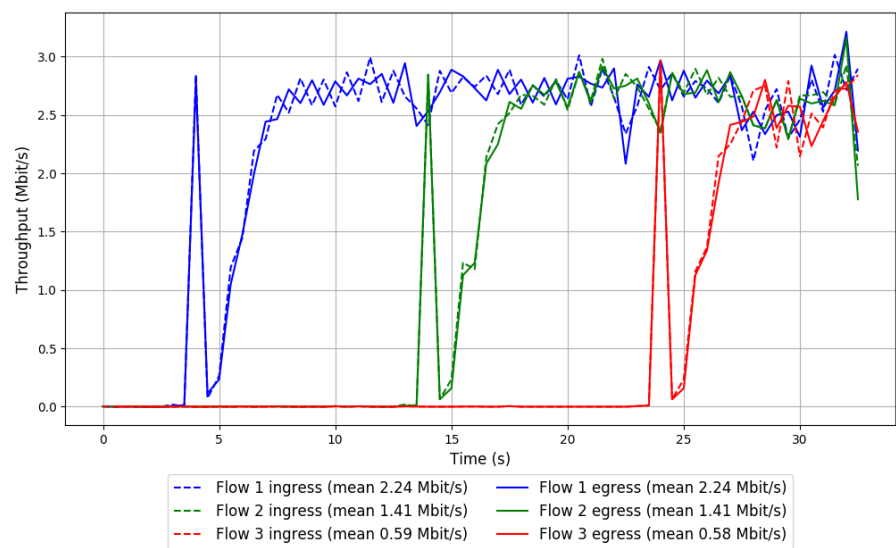
-- Flow 3:

Average throughput: 0.58 Mbit/s

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

Loss rate: 1.85%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2017-12-01 04:05:00

End at: 2017-12-01 04:05:30

Below is generated by plot.py at 2017-12-01 06:55:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.19 Mbit/s

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

Loss rate: 0.73%

-- Flow 1:

Average throughput: 2.23 Mbit/s

95th percentile per-packet one-way delay: 53.755 ms

Loss rate: 0.52%

-- Flow 2:

Average throughput: 1.41 Mbit/s

95th percentile per-packet one-way delay: 53.177 ms

Loss rate: 0.70%

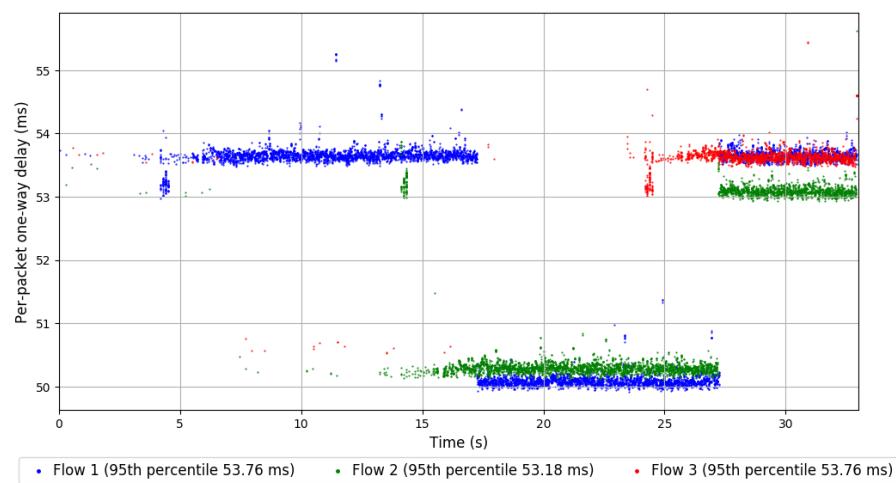
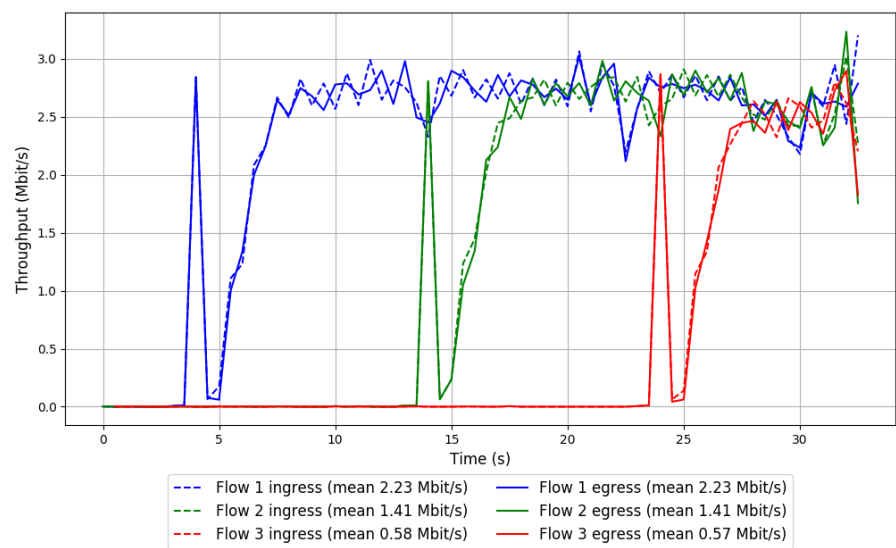
-- Flow 3:

Average throughput: 0.57 Mbit/s

95th percentile per-packet one-way delay: 53.763 ms

Loss rate: 1.59%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2017-12-01 04:17:18

End at: 2017-12-01 04:17:48

Below is generated by plot.py at 2017-12-01 06:55:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.21 Mbit/s

95th percentile per-packet one-way delay: 50.751 ms

Loss rate: 0.68%

-- Flow 1:

Average throughput: 2.25 Mbit/s

95th percentile per-packet one-way delay: 50.773 ms

Loss rate: 0.52%

-- Flow 2:

Average throughput: 1.41 Mbit/s

95th percentile per-packet one-way delay: 50.311 ms

Loss rate: 0.47%

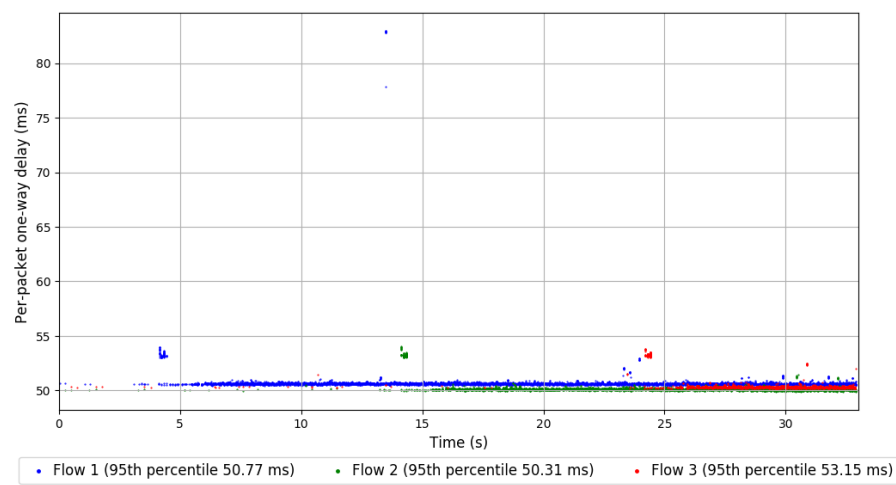
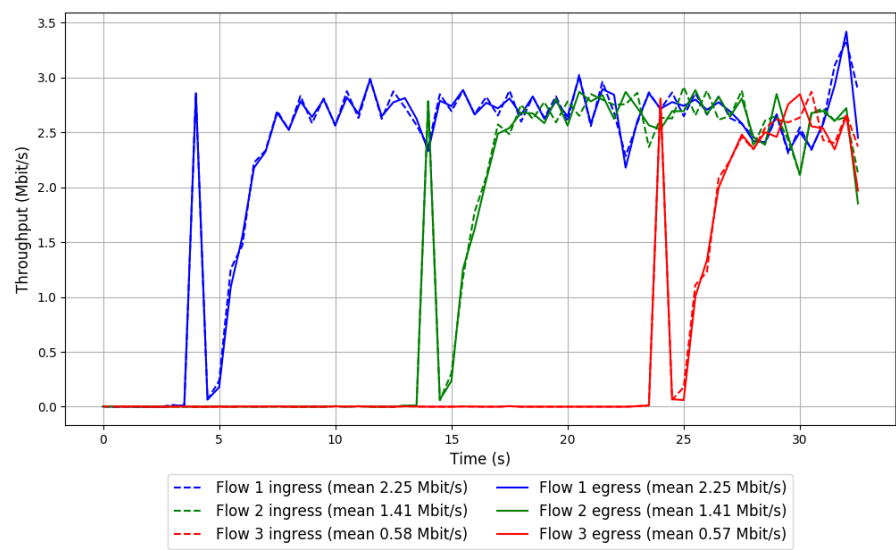
-- Flow 3:

Average throughput: 0.57 Mbit/s

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

Loss rate: 1.81%

Run 10: Report of WebRTC media — Data Link

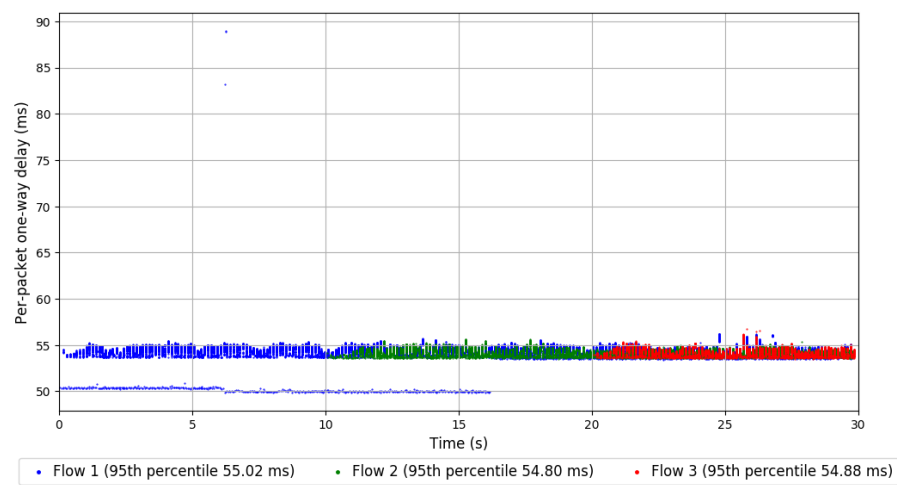
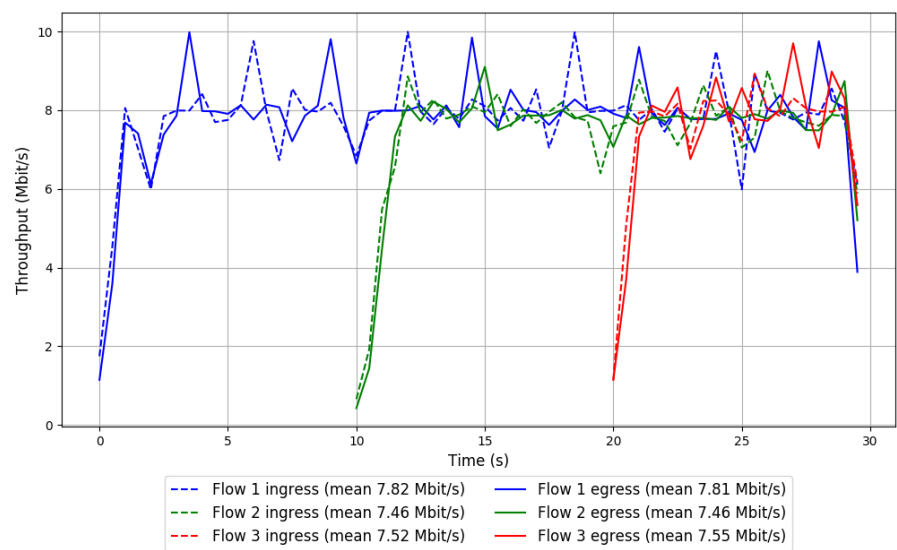


```
Run 1: Statistics of Sprout

Start at: 2017-12-01 02:17:48
End at: 2017-12-01 02:18:18

# Below is generated by plot.py at 2017-12-01 06:55:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 15.21 Mbit/s
95th percentile per-packet one-way delay: 54.962 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 7.81 Mbit/s
95th percentile per-packet one-way delay: 55.025 ms
Loss rate: 0.48%
-- Flow 2:
Average throughput: 7.46 Mbit/s
95th percentile per-packet one-way delay: 54.801 ms
Loss rate: 0.59%
-- Flow 3:
Average throughput: 7.55 Mbit/s
95th percentile per-packet one-way delay: 54.885 ms
Loss rate: 0.39%
```

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2017-12-01 02:29:44

End at: 2017-12-01 02:30:14

Below is generated by plot.py at 2017-12-01 06:55:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.26 Mbit/s

95th percentile per-packet one-way delay: 54.901 ms

Loss rate: 0.68%

-- Flow 1:

Average throughput: 7.72 Mbit/s

95th percentile per-packet one-way delay: 54.864 ms

Loss rate: 0.43%

-- Flow 2:

Average throughput: 7.69 Mbit/s

95th percentile per-packet one-way delay: 54.926 ms

Loss rate: 0.74%

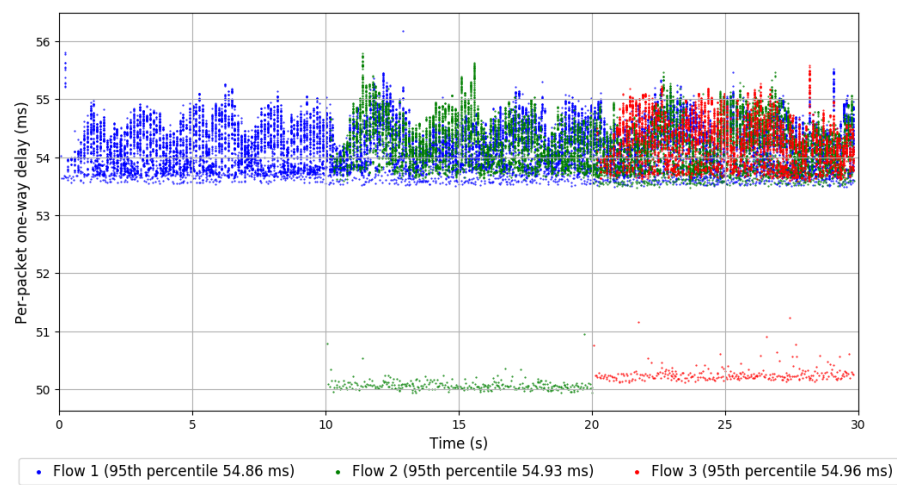
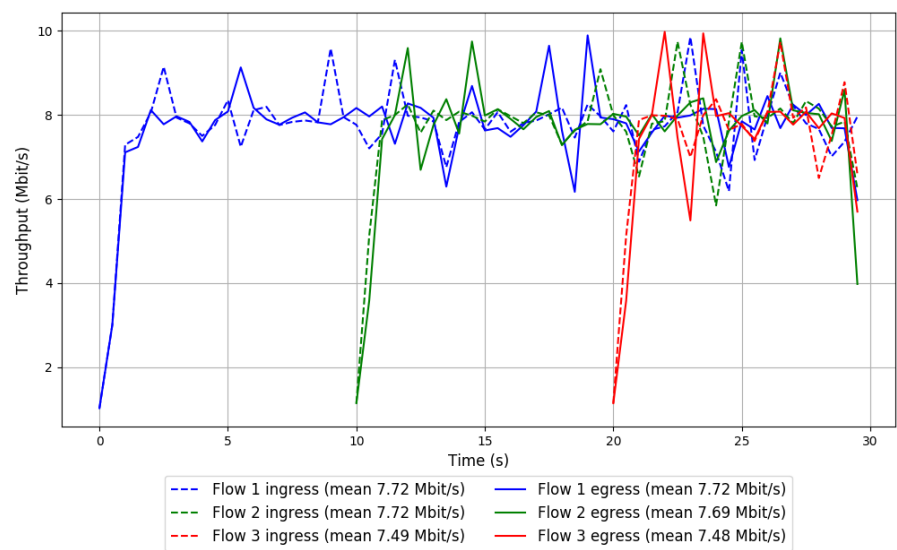
-- Flow 3:

Average throughput: 7.48 Mbit/s

95th percentile per-packet one-way delay: 54.959 ms

Loss rate: 1.34%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2017-12-01 02:41:57

End at: 2017-12-01 02:42:27

Below is generated by plot.py at 2017-12-01 06:55:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.30 Mbit/s

95th percentile per-packet one-way delay: 55.039 ms

Loss rate: 0.63%

-- Flow 1:

Average throughput: 7.75 Mbit/s

95th percentile per-packet one-way delay: 55.057 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 7.71 Mbit/s

95th percentile per-packet one-way delay: 54.887 ms

Loss rate: 0.65%

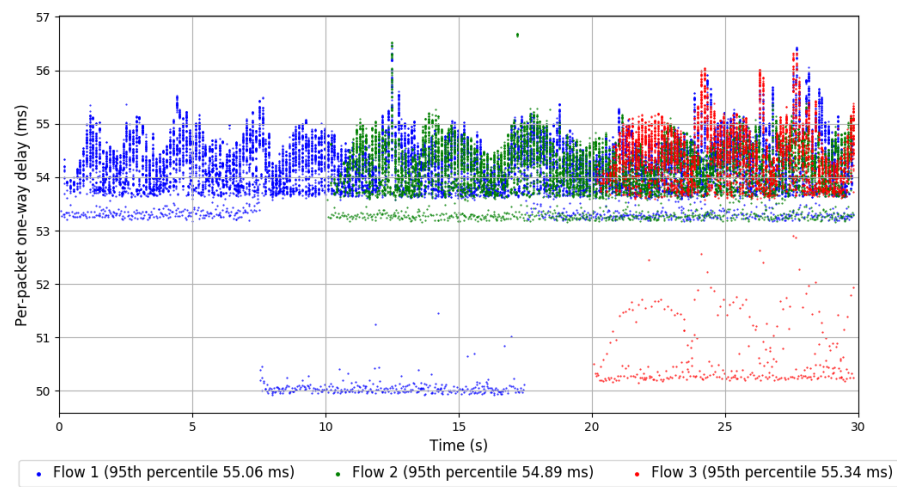
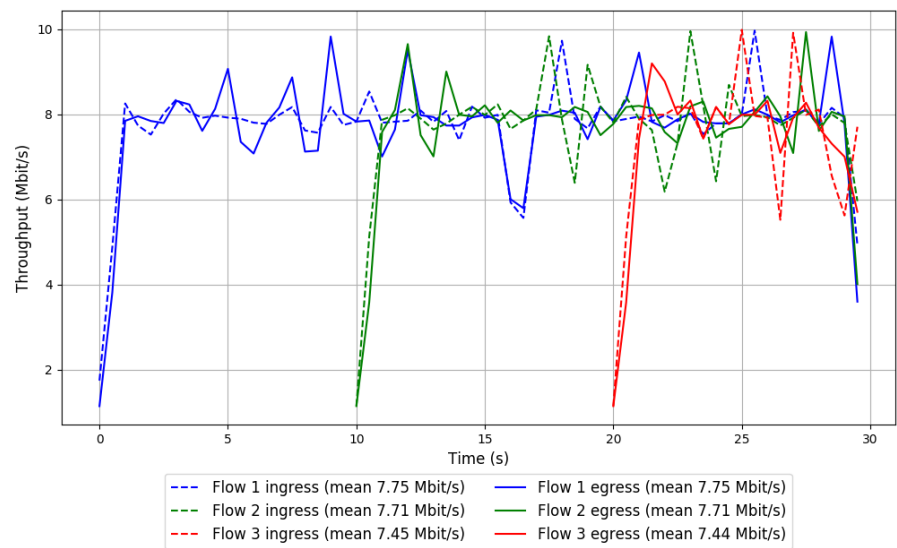
-- Flow 3:

Average throughput: 7.44 Mbit/s

95th percentile per-packet one-way delay: 55.338 ms

Loss rate: 1.36%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2017-12-01 02:54:01

End at: 2017-12-01 02:54:31

Below is generated by plot.py at 2017-12-01 06:55:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.38 Mbit/s

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

Loss rate: 0.50%

-- Flow 1:

Average throughput: 7.82 Mbit/s

95th percentile per-packet one-way delay: 54.298 ms

Loss rate: 0.23%

-- Flow 2:

Average throughput: 7.72 Mbit/s

95th percentile per-packet one-way delay: 54.273 ms

Loss rate: 0.47%

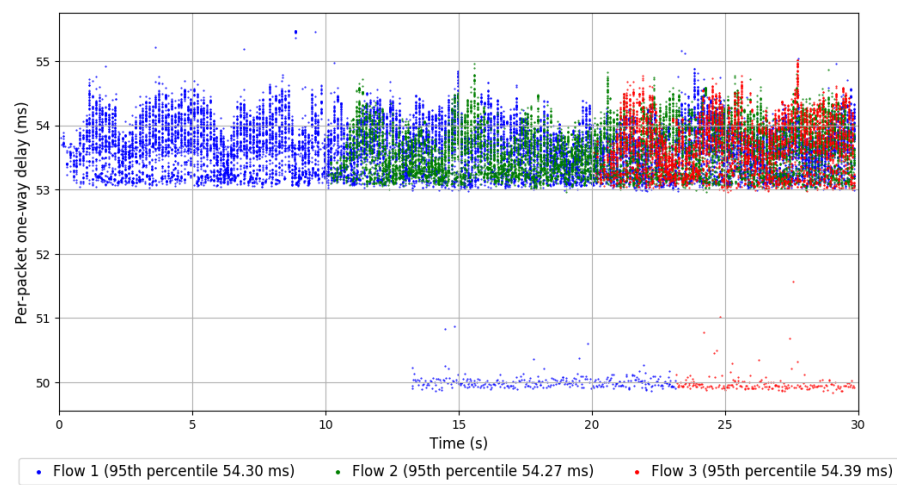
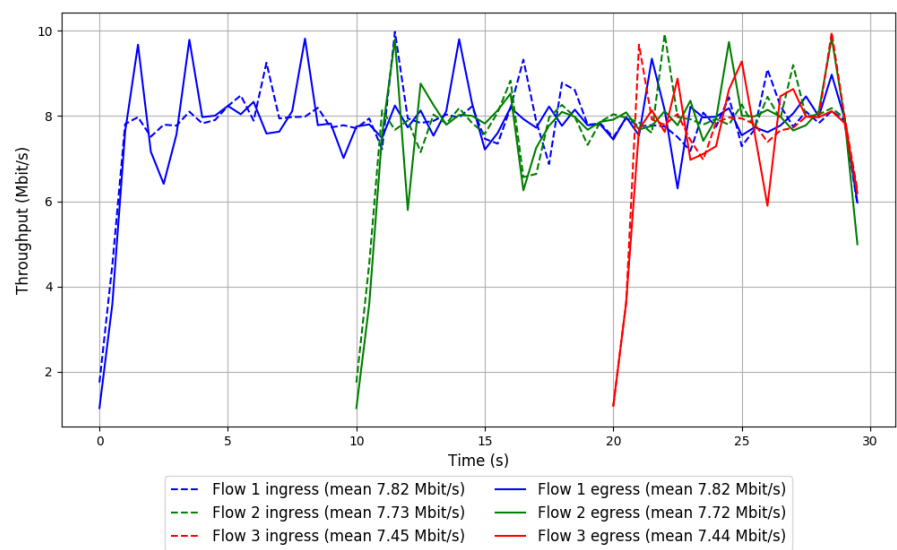
-- Flow 3:

Average throughput: 7.44 Mbit/s

95th percentile per-packet one-way delay: 54.386 ms

Loss rate: 1.41%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2017-12-01 03:06:19

End at: 2017-12-01 03:06:49

Below is generated by plot.py at 2017-12-01 06:55:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.13 Mbit/s

95th percentile per-packet one-way delay: 54.973 ms

Loss rate: 0.76%

-- Flow 1:

Average throughput: 7.68 Mbit/s

95th percentile per-packet one-way delay: 54.934 ms

Loss rate: 0.49%

-- Flow 2:

Average throughput: 7.56 Mbit/s

95th percentile per-packet one-way delay: 54.860 ms

Loss rate: 0.90%

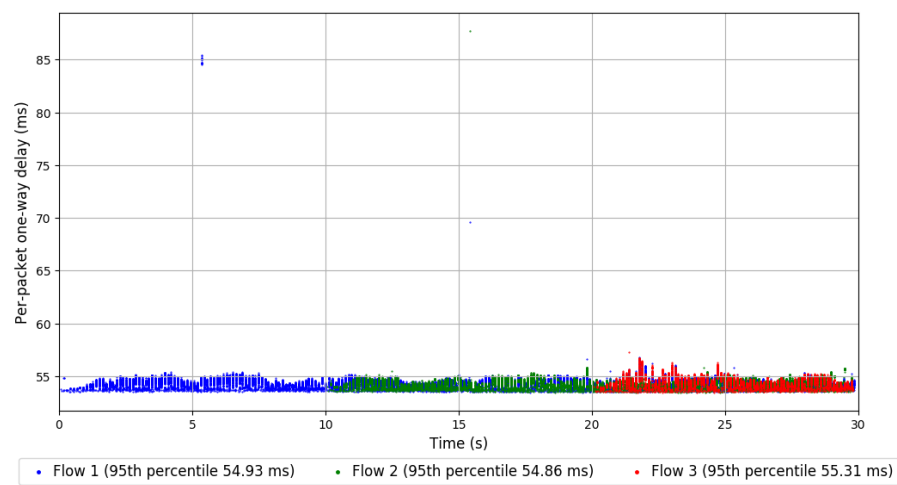
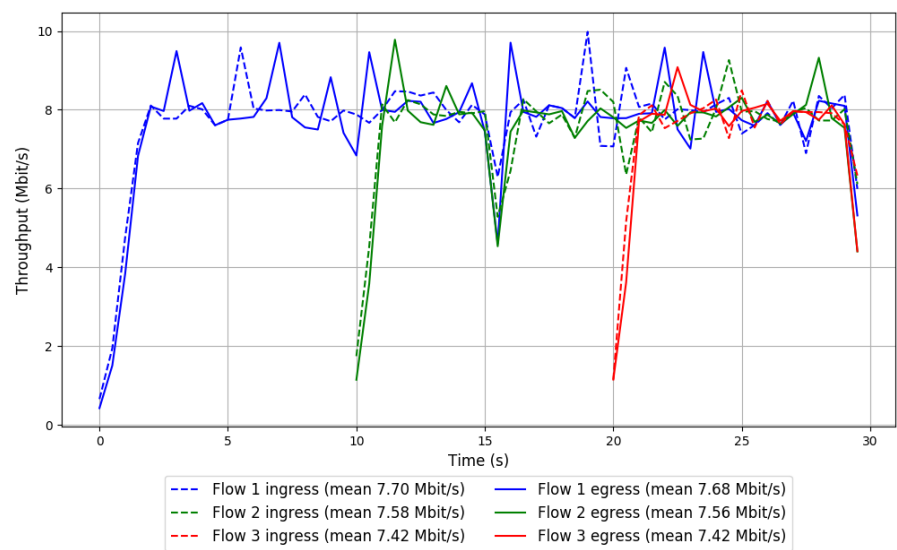
-- Flow 3:

Average throughput: 7.42 Mbit/s

95th percentile per-packet one-way delay: 55.309 ms

Loss rate: 1.31%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2017-12-01 03:18:43

End at: 2017-12-01 03:19:13

Below is generated by plot.py at 2017-12-01 06:55:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.38 Mbit/s

95th percentile per-packet one-way delay: 55.143 ms

Loss rate: 0.60%

-- Flow 1:

Average throughput: 7.80 Mbit/s

95th percentile per-packet one-way delay: 55.181 ms

Loss rate: 0.41%

-- Flow 2:

Average throughput: 7.71 Mbit/s

95th percentile per-packet one-way delay: 55.045 ms

Loss rate: 0.57%

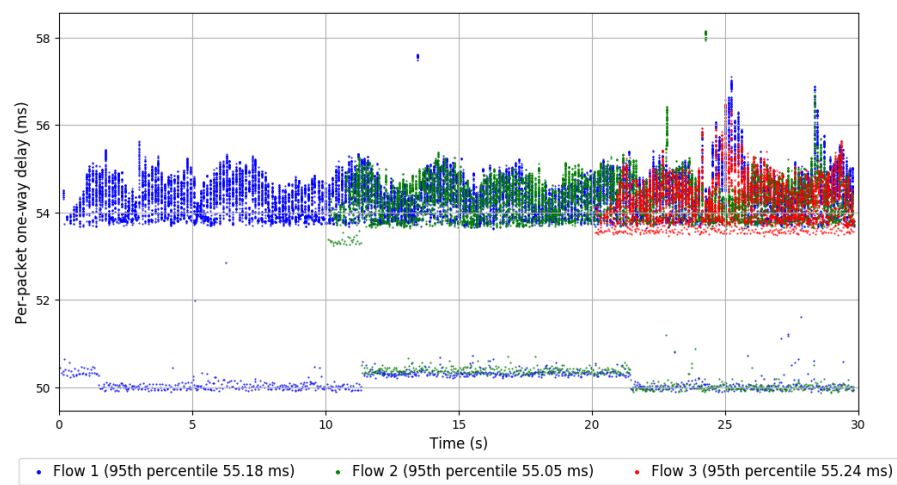
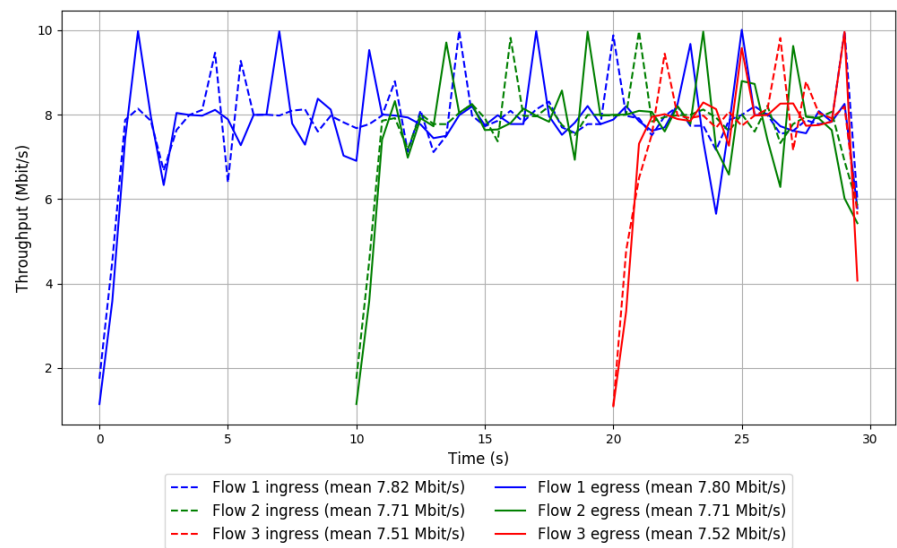
-- Flow 3:

Average throughput: 7.52 Mbit/s

95th percentile per-packet one-way delay: 55.239 ms

Loss rate: 1.21%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2017-12-01 03:30:53

End at: 2017-12-01 03:31:23

Below is generated by plot.py at 2017-12-01 06:55:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.37 Mbit/s

95th percentile per-packet one-way delay: 55.246 ms

Loss rate: 0.62%

-- Flow 1:

Average throughput: 7.79 Mbit/s

95th percentile per-packet one-way delay: 55.211 ms

Loss rate: 0.39%

-- Flow 2:

Average throughput: 7.75 Mbit/s

95th percentile per-packet one-way delay: 55.293 ms

Loss rate: 0.63%

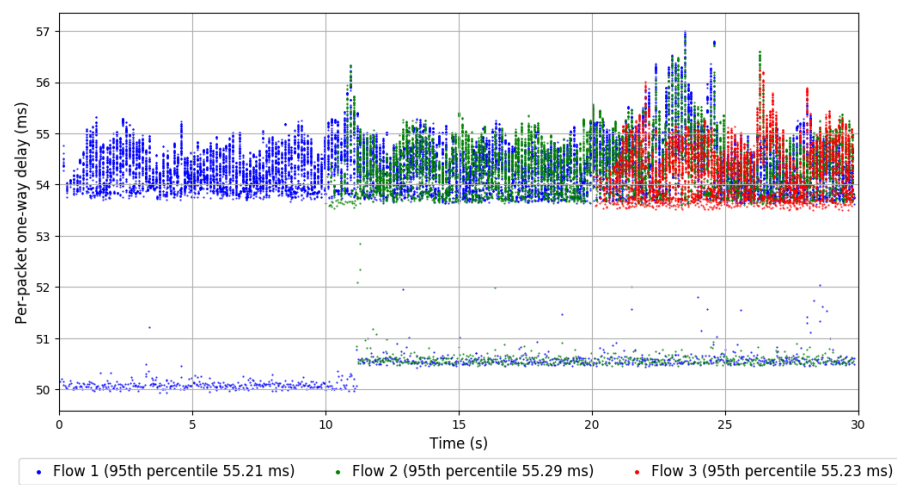
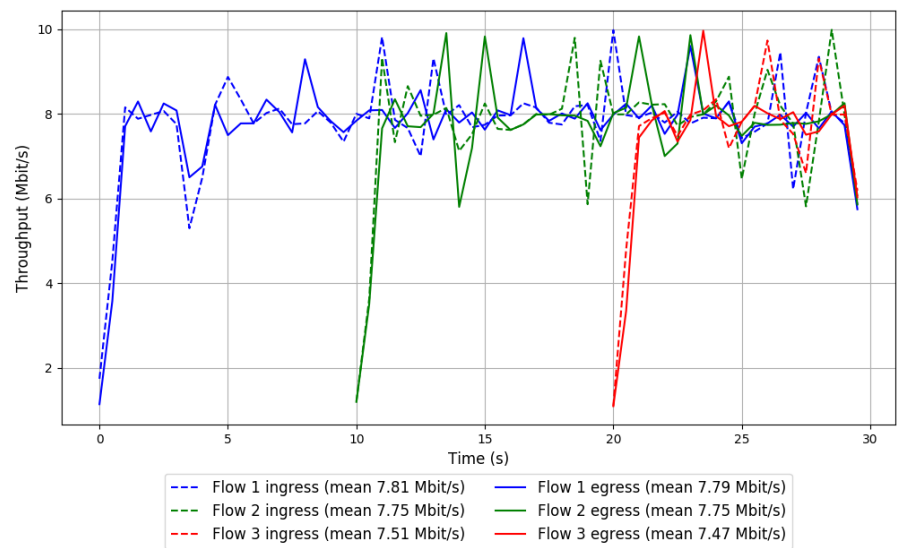
-- Flow 3:

Average throughput: 7.47 Mbit/s

95th percentile per-packet one-way delay: 55.230 ms

Loss rate: 1.31%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2017-12-01 03:43:05

End at: 2017-12-01 03:43:35

Below is generated by plot.py at 2017-12-01 06:55:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.23 Mbit/s

95th percentile per-packet one-way delay: 54.588 ms

Loss rate: 0.66%

-- Flow 1:

Average throughput: 7.67 Mbit/s

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

Loss rate: 0.45%

-- Flow 2:

Average throughput: 7.73 Mbit/s

95th percentile per-packet one-way delay: 54.610 ms

Loss rate: 0.64%

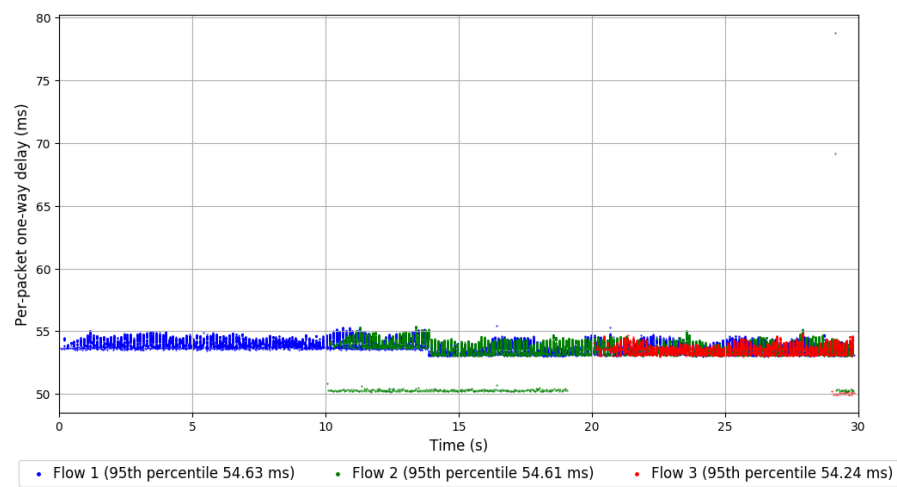
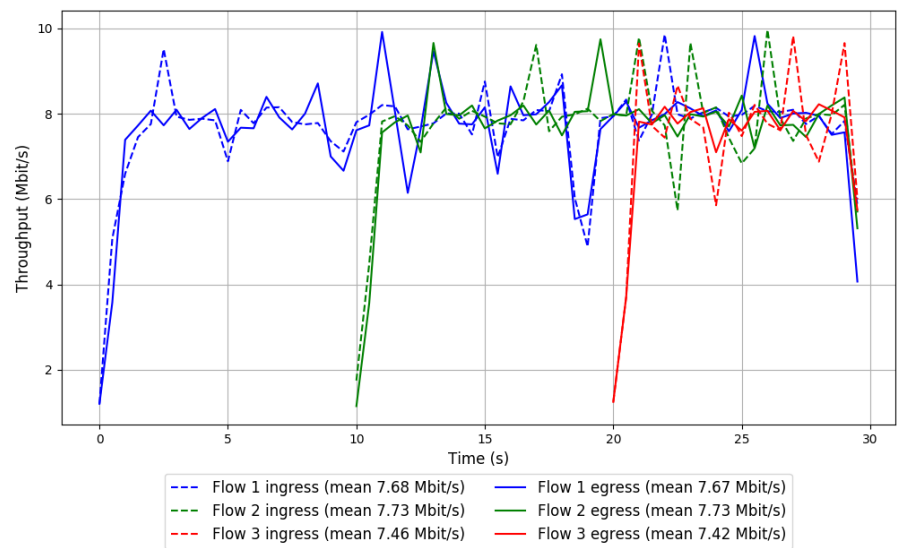
-- Flow 3:

Average throughput: 7.42 Mbit/s

95th percentile per-packet one-way delay: 54.237 ms

Loss rate: 1.36%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2017-12-01 03:55:11

End at: 2017-12-01 03:55:41

Below is generated by plot.py at 2017-12-01 06:55:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.29 Mbit/s

95th percentile per-packet one-way delay: 54.376 ms

Loss rate: 0.62%

-- Flow 1:

Average throughput: 7.75 Mbit/s

95th percentile per-packet one-way delay: 54.378 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 7.69 Mbit/s

95th percentile per-packet one-way delay: 54.413 ms

Loss rate: 0.62%

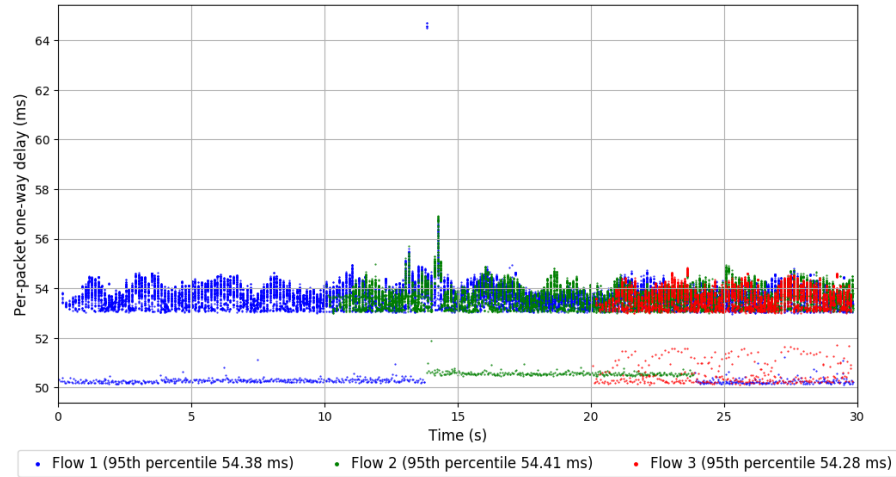
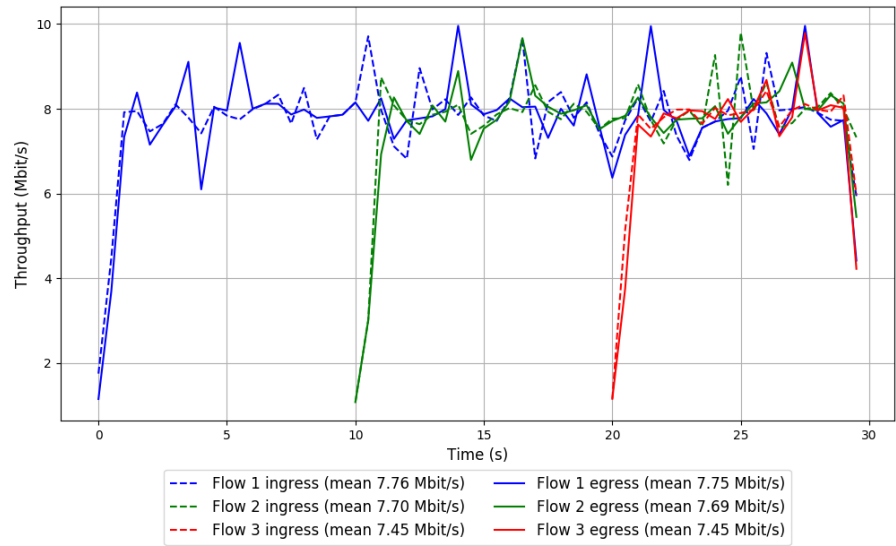
-- Flow 3:

Average throughput: 7.45 Mbit/s

95th percentile per-packet one-way delay: 54.284 ms

Loss rate: 1.40%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2017-12-01 04:07:23

End at: 2017-12-01 04:07:53

Below is generated by plot.py at 2017-12-01 06:55:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.17 Mbit/s

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

Loss rate: 0.46%

-- Flow 1:

Average throughput: 7.65 Mbit/s

95th percentile per-packet one-way delay: 54.307 ms

Loss rate: 0.42%

-- Flow 2:

Average throughput: 7.63 Mbit/s

95th percentile per-packet one-way delay: 54.216 ms

Loss rate: 0.53%

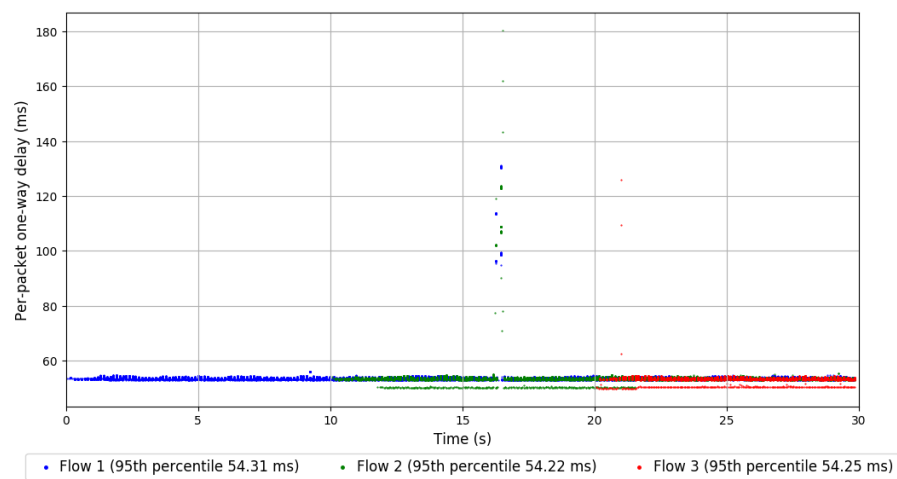
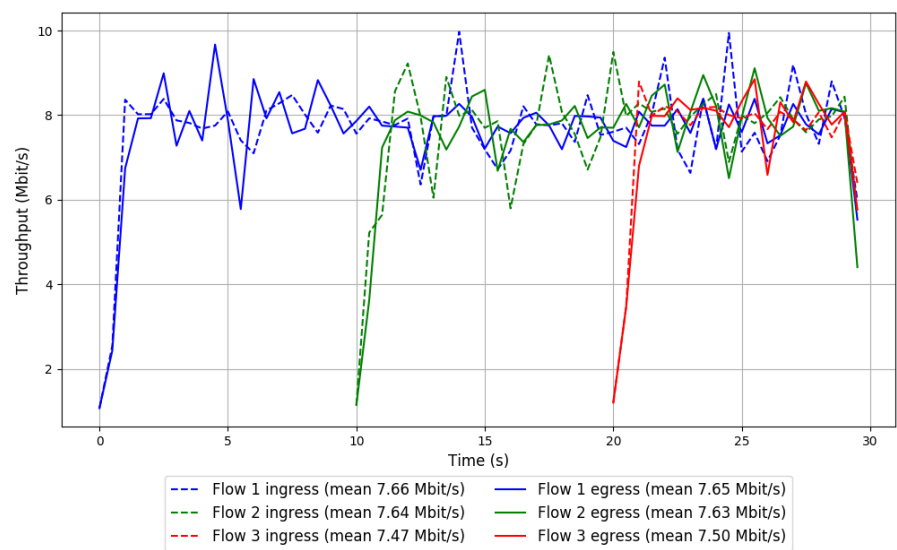
-- Flow 3:

Average throughput: 7.50 Mbit/s

95th percentile per-packet one-way delay: 54.248 ms

Loss rate: 0.42%

Run 10: Report of Sprout — Data Link

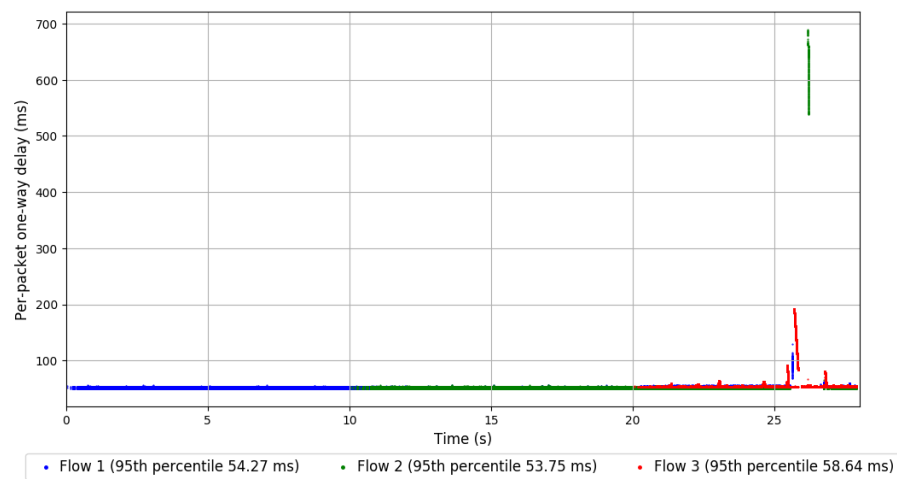
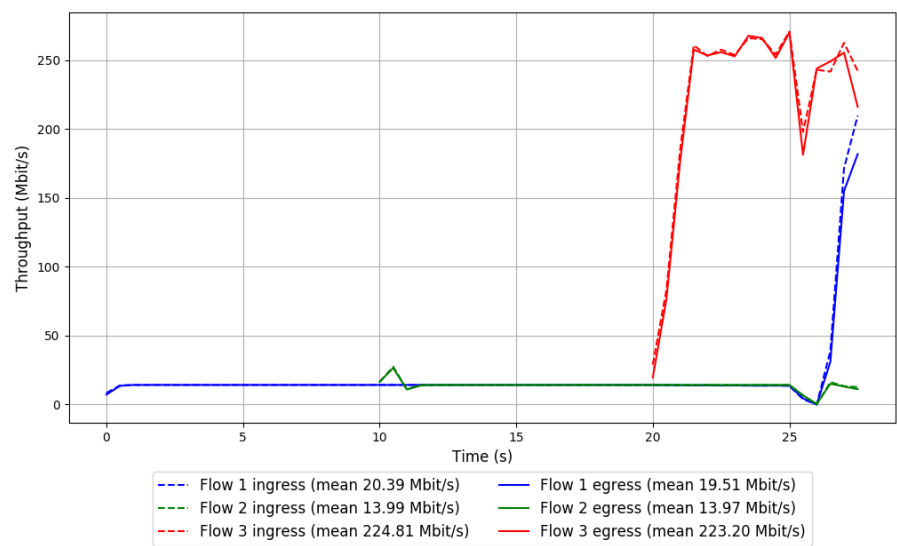


```
Run 1: Statistics of TaoVA-100x

Start at: 2017-12-01 02:19:13
End at: 2017-12-01 02:19:43

# Below is generated by plot.py at 2017-12-01 06:55:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.18 Mbit/s
95th percentile per-packet one-way delay: 56.226 ms
Loss rate: 2.48%
-- Flow 1:
Average throughput: 19.51 Mbit/s
95th percentile per-packet one-way delay: 54.273 ms
Loss rate: 4.64%
-- Flow 2:
Average throughput: 13.97 Mbit/s
95th percentile per-packet one-way delay: 53.746 ms
Loss rate: 0.75%
-- Flow 3:
Average throughput: 223.20 Mbit/s
95th percentile per-packet one-way delay: 58.640 ms
Loss rate: 2.03%
```


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

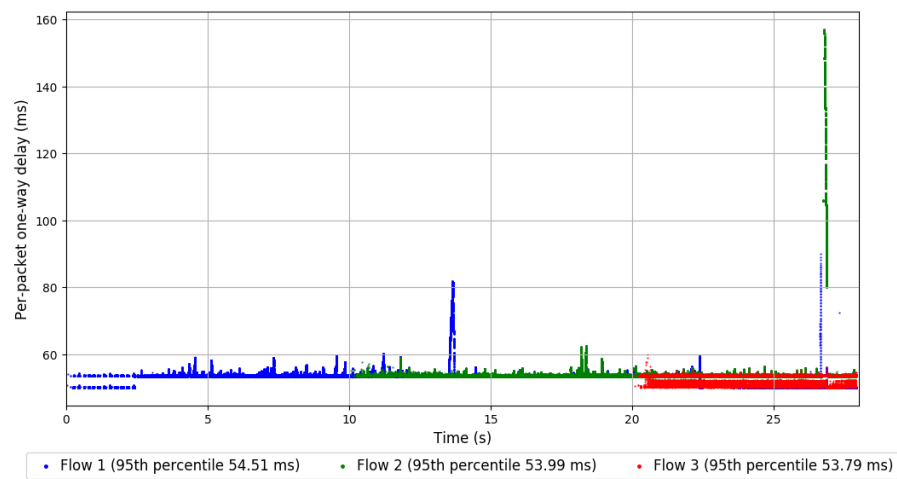
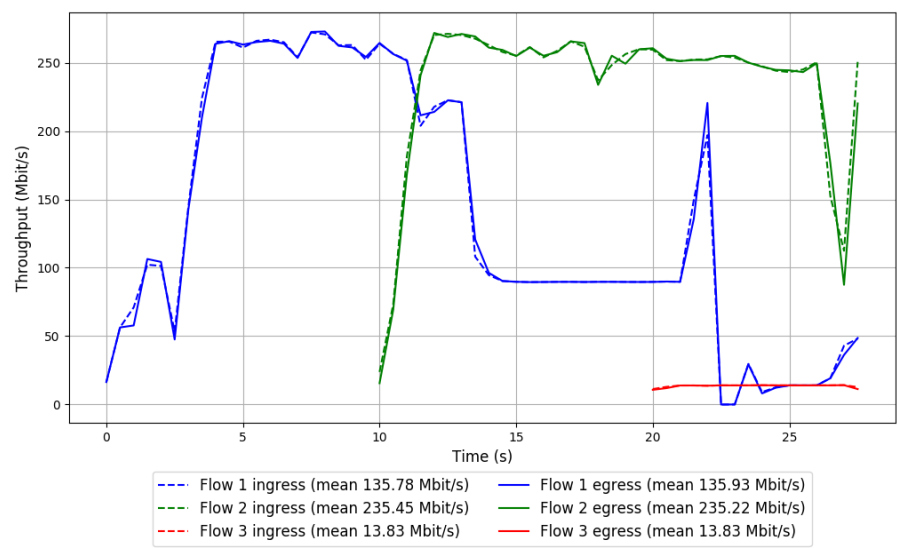


```
Run 2: Statistics of TaoVA-100x

Start at: 2017-12-01 02:31:10
End at: 2017-12-01 02:31:40

# Below is generated by plot.py at 2017-12-01 06:58:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 290.46 Mbit/s
95th percentile per-packet one-way delay: 54.178 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 135.93 Mbit/s
95th percentile per-packet one-way delay: 54.507 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 235.22 Mbit/s
95th percentile per-packet one-way delay: 53.994 ms
Loss rate: 0.69%
-- Flow 3:
Average throughput: 13.83 Mbit/s
95th percentile per-packet one-way delay: 53.791 ms
Loss rate: 1.35%
```

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

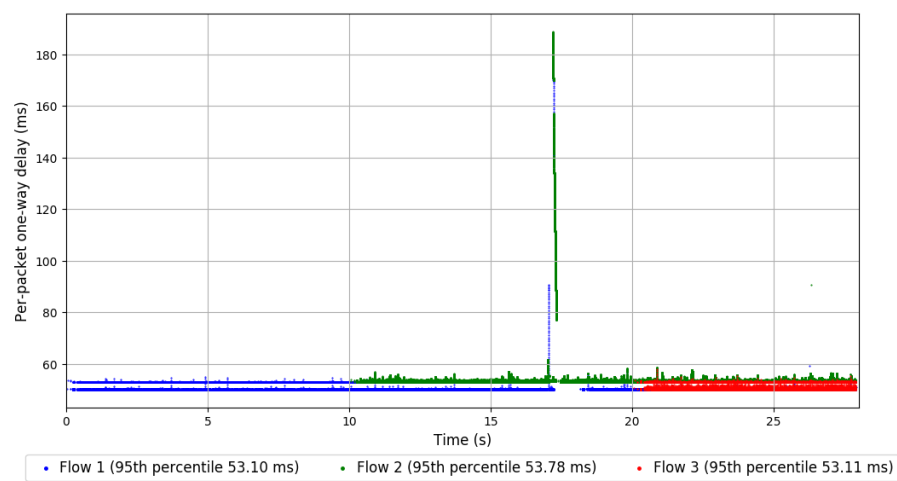
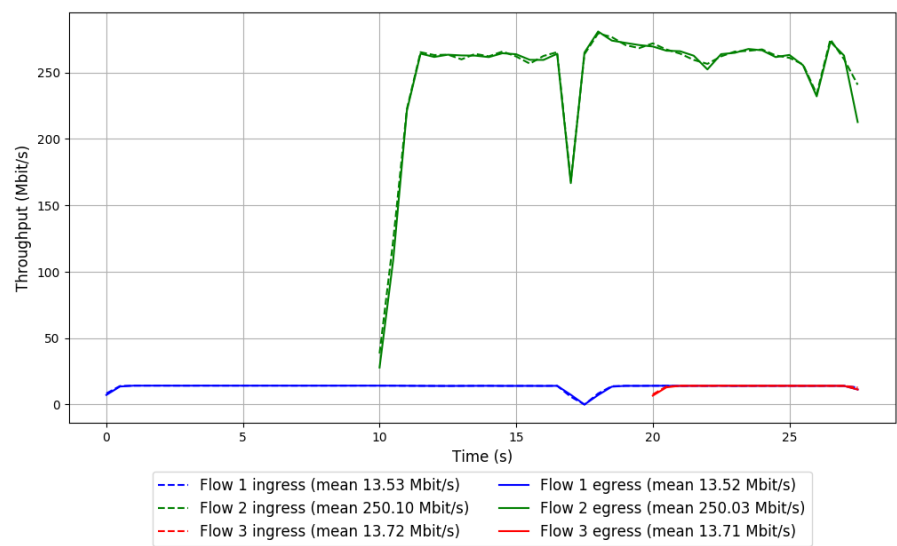


```
Run 3: Statistics of TaoVA-100x

Start at: 2017-12-01 02:43:22
End at: 2017-12-01 02:43:52

# Below is generated by plot.py at 2017-12-01 06:58:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 177.50 Mbit/s
95th percentile per-packet one-way delay: 53.734 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 13.52 Mbit/s
95th percentile per-packet one-way delay: 53.102 ms
Loss rate: 0.40%
-- Flow 2:
Average throughput: 250.03 Mbit/s
95th percentile per-packet one-way delay: 53.778 ms
Loss rate: 0.63%
-- Flow 3:
Average throughput: 13.71 Mbit/s
95th percentile per-packet one-way delay: 53.113 ms
Loss rate: 1.39%
```

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

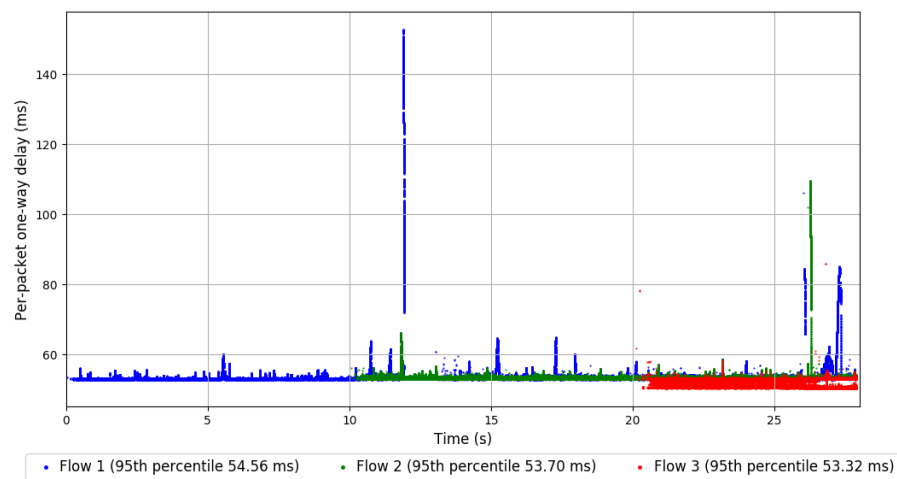
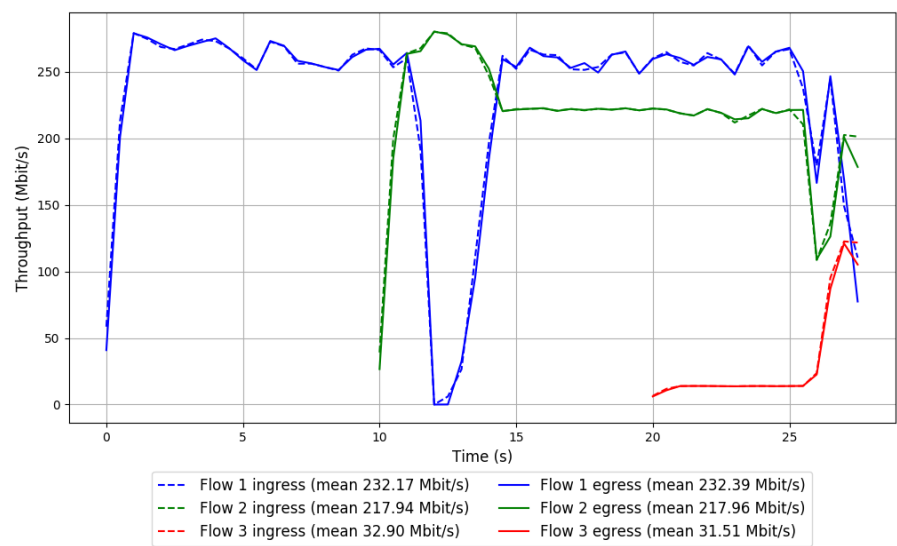


```
Run 4: Statistics of TaoVA-100x

Start at: 2017-12-01 02:55:27
End at: 2017-12-01 02:55:57

# Below is generated by plot.py at 2017-12-01 07:01:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 380.83 Mbit/s
95th percentile per-packet one-way delay: 53.905 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 232.39 Mbit/s
95th percentile per-packet one-way delay: 54.565 ms
Loss rate: 0.29%
-- Flow 2:
Average throughput: 217.96 Mbit/s
95th percentile per-packet one-way delay: 53.704 ms
Loss rate: 0.59%
-- Flow 3:
Average throughput: 31.51 Mbit/s
95th percentile per-packet one-way delay: 53.322 ms
Loss rate: 5.52%
```

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



Run 5: Statistics of TaoVA-100x

Start at: 2017-12-01 03:07:46

End at: 2017-12-01 03:08:16

Below is generated by plot.py at 2017-12-01 07:01:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 355.13 Mbit/s

95th percentile per-packet one-way delay: 56.434 ms

Loss rate: 0.13%

-- Flow 1:

Average throughput: 231.03 Mbit/s

95th percentile per-packet one-way delay: 57.254 ms

Loss rate: 0.12%

-- Flow 2:

Average throughput: 100.51 Mbit/s

95th percentile per-packet one-way delay: 54.747 ms

Loss rate: 0.05%

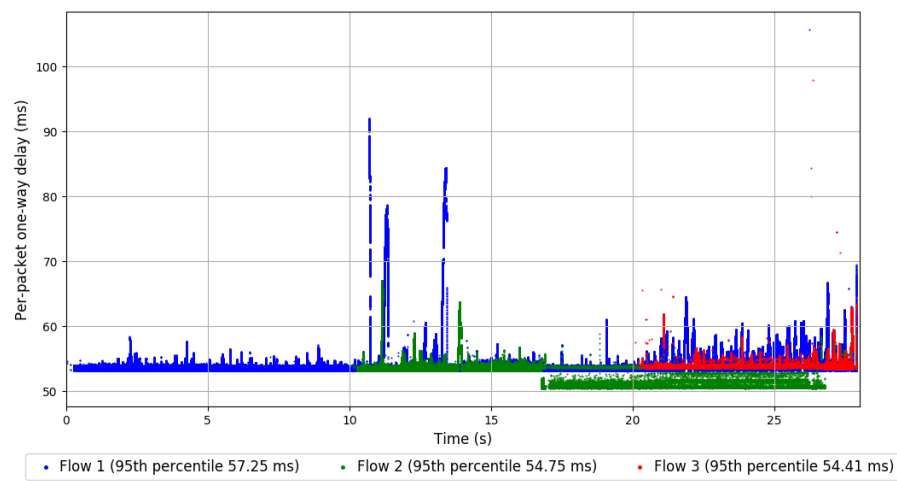
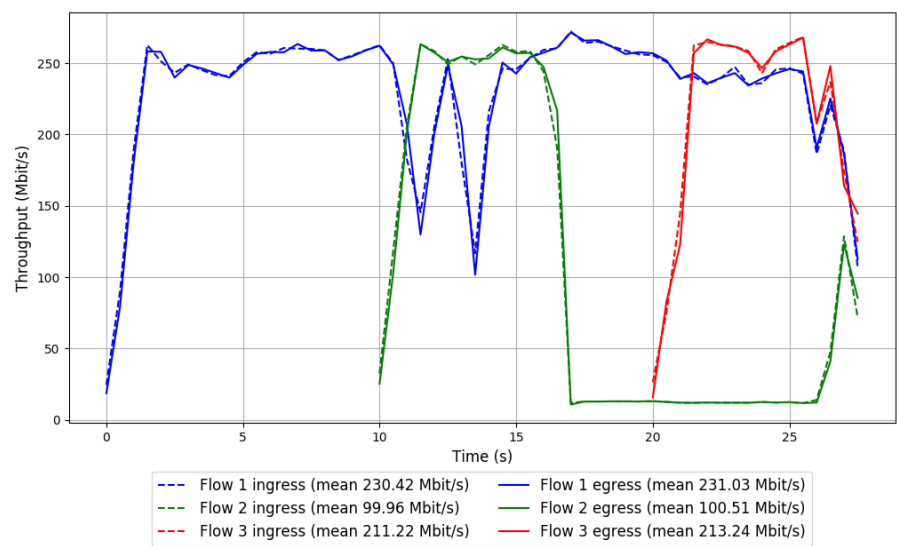
-- Flow 3:

Average throughput: 213.24 Mbit/s

95th percentile per-packet one-way delay: 54.407 ms

Loss rate: 0.27%

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



Run 6: Statistics of TaoVA-100x

Start at: 2017-12-01 03:20:07

End at: 2017-12-01 03:20:37

Below is generated by plot.py at 2017-12-01 07:01:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 228.78 Mbit/s

95th percentile per-packet one-way delay: 55.829 ms

Loss rate: 0.49%

-- Flow 1:

Average throughput: 21.15 Mbit/s

95th percentile per-packet one-way delay: 53.783 ms

Loss rate: 0.20%

-- Flow 2:

Average throughput: 251.58 Mbit/s

95th percentile per-packet one-way delay: 57.373 ms

Loss rate: 0.63%

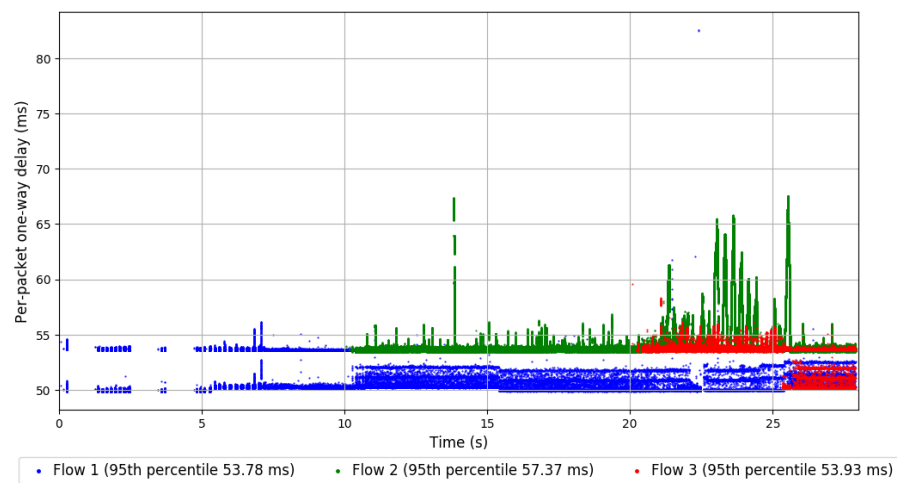
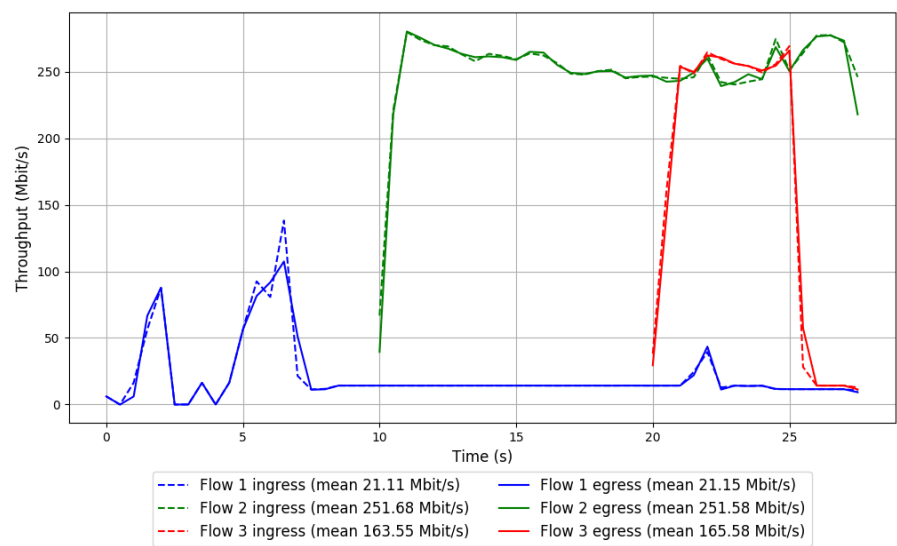
-- Flow 3:

Average throughput: 165.58 Mbit/s

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

Loss rate: 0.12%

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

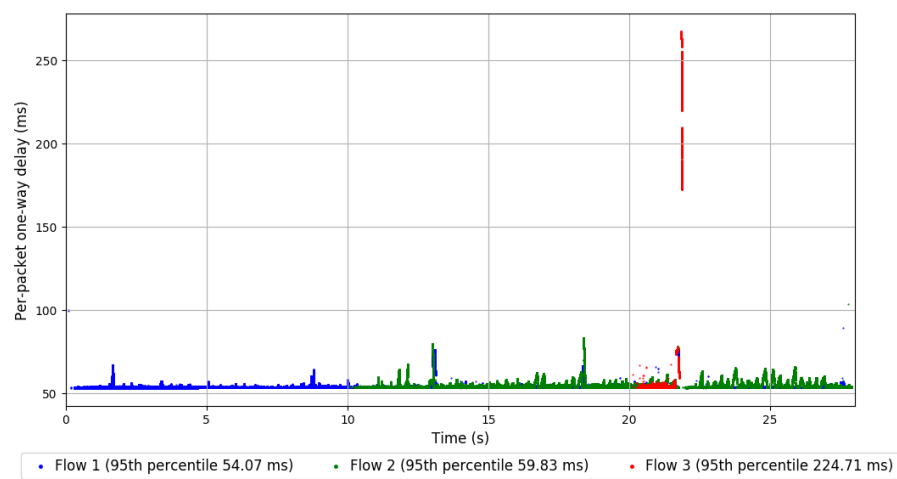
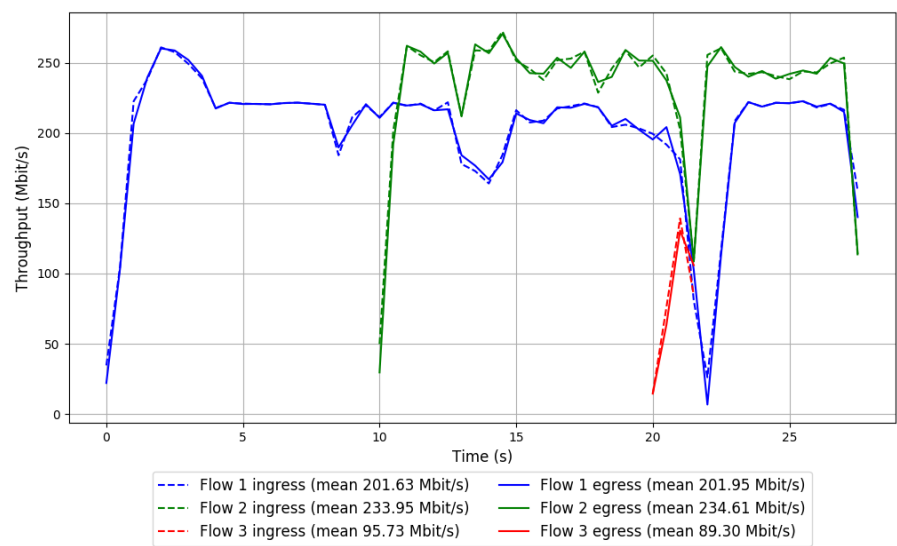


```
Run 7: Statistics of TaoVA-100x

Start at: 2017-12-01 03:32:18
End at: 2017-12-01 03:32:48

# Below is generated by plot.py at 2017-12-01 07:03:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 358.18 Mbit/s
95th percentile per-packet one-way delay: 57.685 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 201.95 Mbit/s
95th percentile per-packet one-way delay: 54.071 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 234.61 Mbit/s
95th percentile per-packet one-way delay: 59.826 ms
Loss rate: 0.31%
-- Flow 3:
Average throughput: 89.30 Mbit/s
95th percentile per-packet one-way delay: 224.707 ms
Loss rate: 0.00%
```

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



Run 8: Statistics of TaoVA-100x

Start at: 2017-12-01 03:44:31

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

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 233.03 Mbit/s

95th percentile per-packet one-way delay: 54.487 ms

Loss rate: 0.77%

-- Flow 1:

Average throughput: 47.59 Mbit/s

95th percentile per-packet one-way delay: 54.311 ms

Loss rate: 1.00%

-- Flow 2:

Average throughput: 229.02 Mbit/s

95th percentile per-packet one-way delay: 54.367 ms

Loss rate: 0.68%

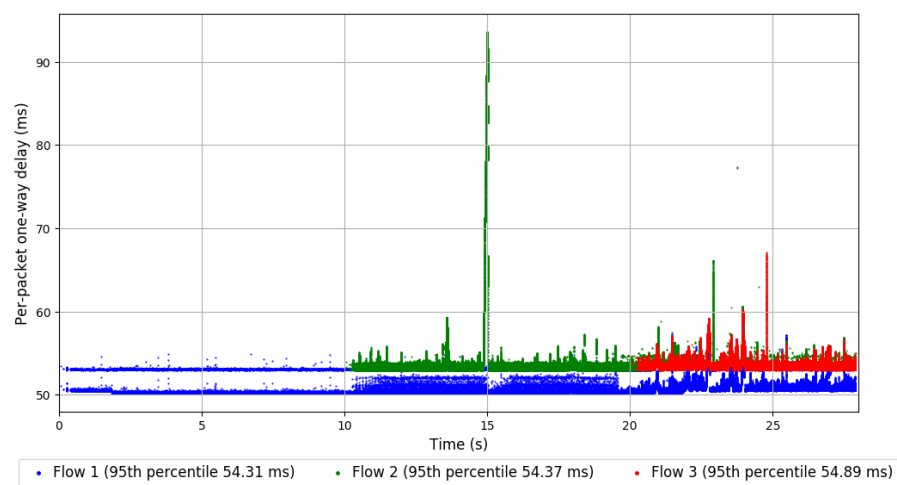
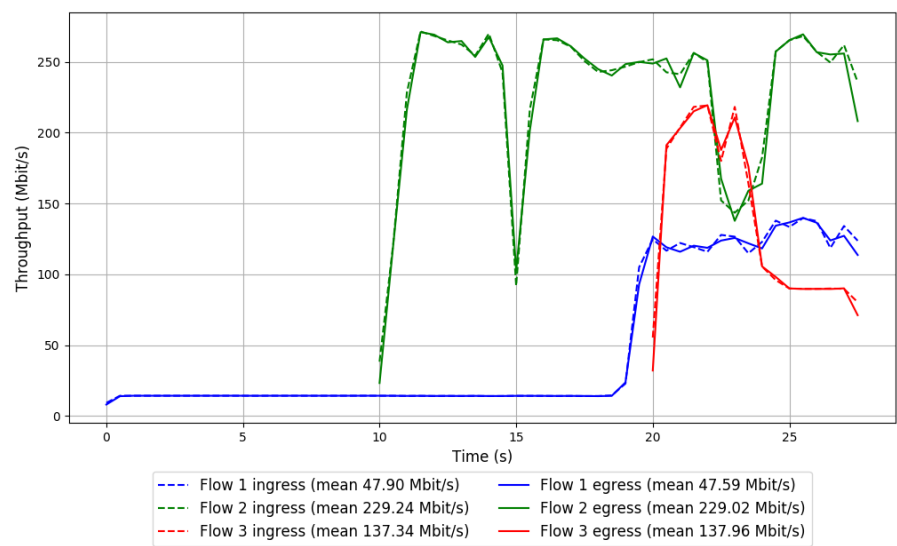
-- Flow 3:

Average throughput: 137.96 Mbit/s

95th percentile per-packet one-way delay: 54.890 ms

Loss rate: 0.86%

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

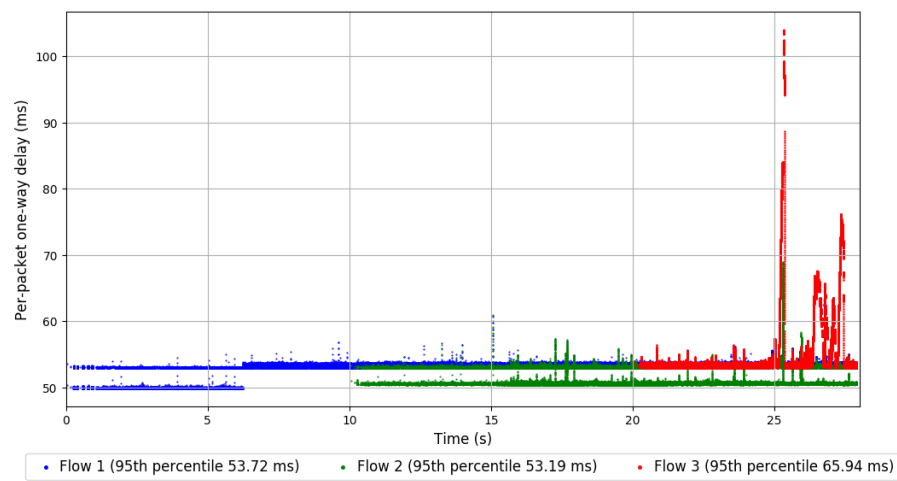
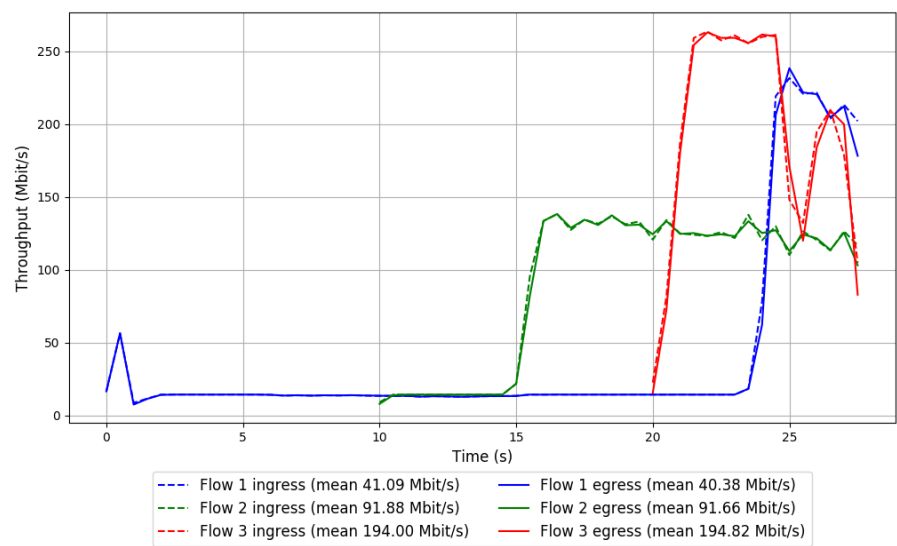


```
Run 9: Statistics of TaoVA-100x

Start at: 2017-12-01 03:56:36
End at: 2017-12-01 03:57:06

# Below is generated by plot.py at 2017-12-01 07:03:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 153.79 Mbit/s
95th percentile per-packet one-way delay: 56.577 ms
Loss rate: 1.20%
-- Flow 1:
Average throughput: 40.38 Mbit/s
95th percentile per-packet one-way delay: 53.721 ms
Loss rate: 2.08%
-- Flow 2:
Average throughput: 91.66 Mbit/s
95th percentile per-packet one-way delay: 53.194 ms
Loss rate: 0.83%
-- Flow 3:
Average throughput: 194.82 Mbit/s
95th percentile per-packet one-way delay: 65.936 ms
Loss rate: 0.95%
```


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

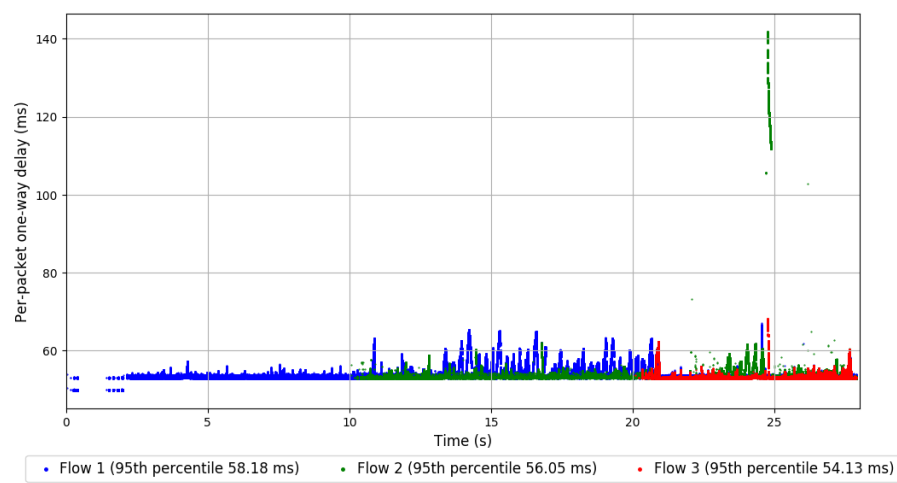
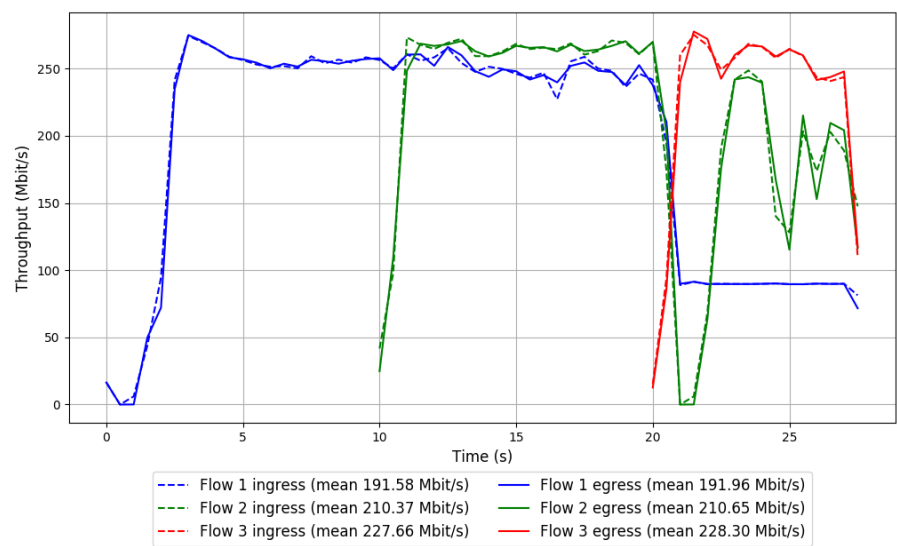


```
Run 10: Statistics of TaoVA-100x

Start at: 2017-12-01 04:08:50
End at: 2017-12-01 04:09:20

# Below is generated by plot.py at 2017-12-01 07:07:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 390.77 Mbit/s
95th percentile per-packet one-way delay: 57.163 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 191.96 Mbit/s
95th percentile per-packet one-way delay: 58.177 ms
Loss rate: 0.18%
-- Flow 2:
Average throughput: 210.65 Mbit/s
95th percentile per-packet one-way delay: 56.046 ms
Loss rate: 0.47%
-- Flow 3:
Average throughput: 228.30 Mbit/s
95th percentile per-packet one-way delay: 54.133 ms
Loss rate: 0.43%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2017-12-01 02:21:04

End at: 2017-12-01 02:21:34

Below is generated by plot.py at 2017-12-01 07:07:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 63.44 Mbit/s

95th percentile per-packet one-way delay: 54.740 ms

Loss rate: 0.62%

-- Flow 1:

Average throughput: 34.76 Mbit/s

95th percentile per-packet one-way delay: 54.639 ms

Loss rate: 0.27%

-- Flow 2:

Average throughput: 8.62 Mbit/s

95th percentile per-packet one-way delay: 54.595 ms

Loss rate: 0.56%

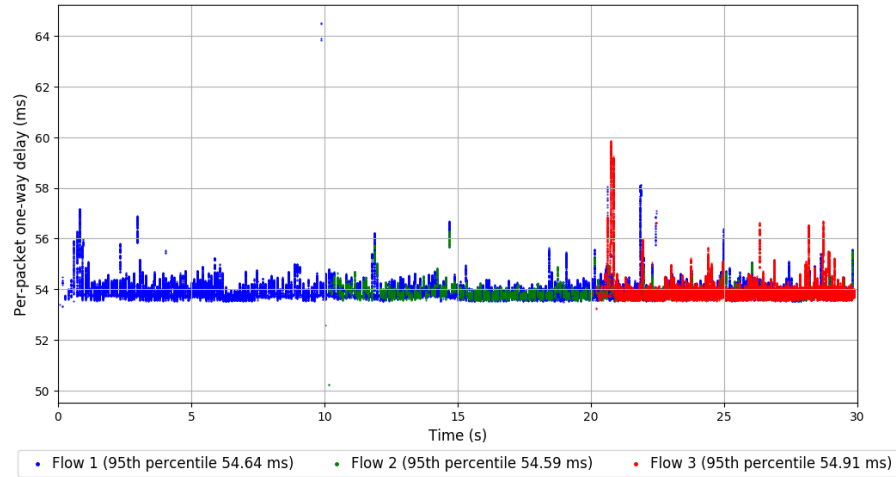
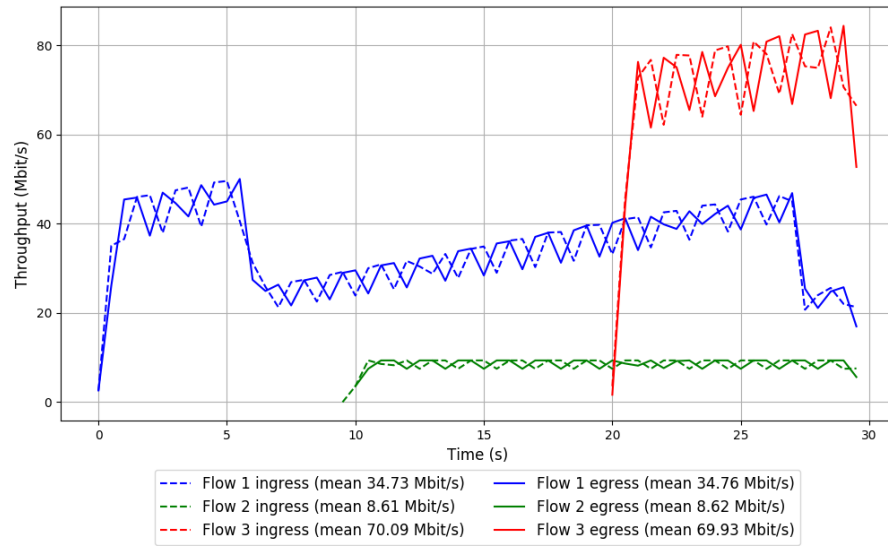
-- Flow 3:

Average throughput: 69.93 Mbit/s

95th percentile per-packet one-way delay: 54.915 ms

Loss rate: 1.17%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2017-12-01 02:33:17

End at: 2017-12-01 02:33:47

Below is generated by plot.py at 2017-12-01 07:07:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 14.66 Mbit/s

95th percentile per-packet one-way delay: 54.308 ms

Loss rate: 0.57%

-- Flow 1:

Average throughput: 7.22 Mbit/s

95th percentile per-packet one-way delay: 54.285 ms

Loss rate: 0.33%

-- Flow 2:

Average throughput: 8.88 Mbit/s

95th percentile per-packet one-way delay: 54.338 ms

Loss rate: 0.53%

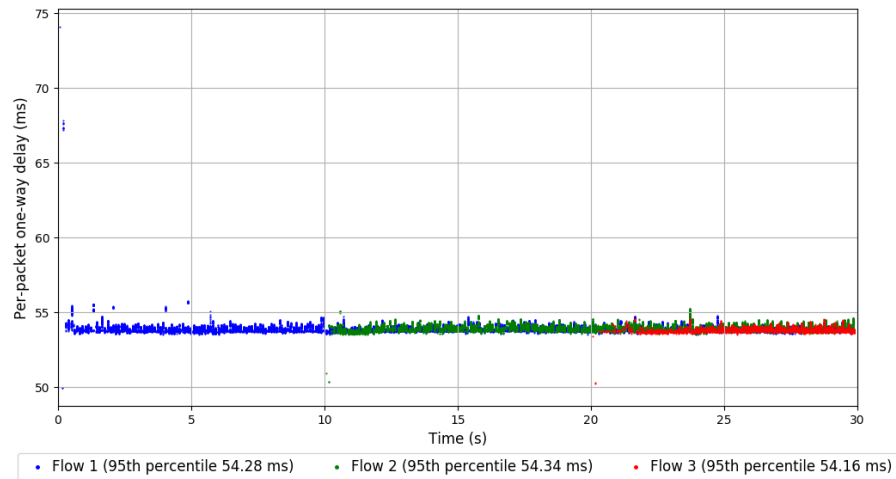
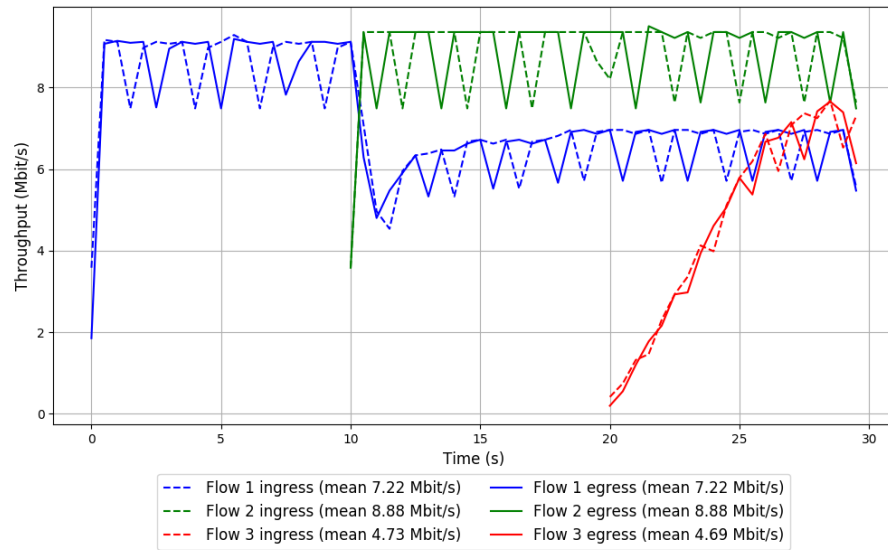
-- Flow 3:

Average throughput: 4.69 Mbit/s

95th percentile per-packet one-way delay: 54.163 ms

Loss rate: 1.87%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2017-12-01 02:45:21

End at: 2017-12-01 02:45:51

Below is generated by plot.py at 2017-12-01 07:07:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 17.49 Mbit/s

95th percentile per-packet one-way delay: 53.800 ms

Loss rate: 0.54%

-- Flow 1:

Average throughput: 8.61 Mbit/s

95th percentile per-packet one-way delay: 53.728 ms

Loss rate: 0.36%

-- Flow 2:

Average throughput: 8.95 Mbit/s

95th percentile per-packet one-way delay: 53.920 ms

Loss rate: 0.53%

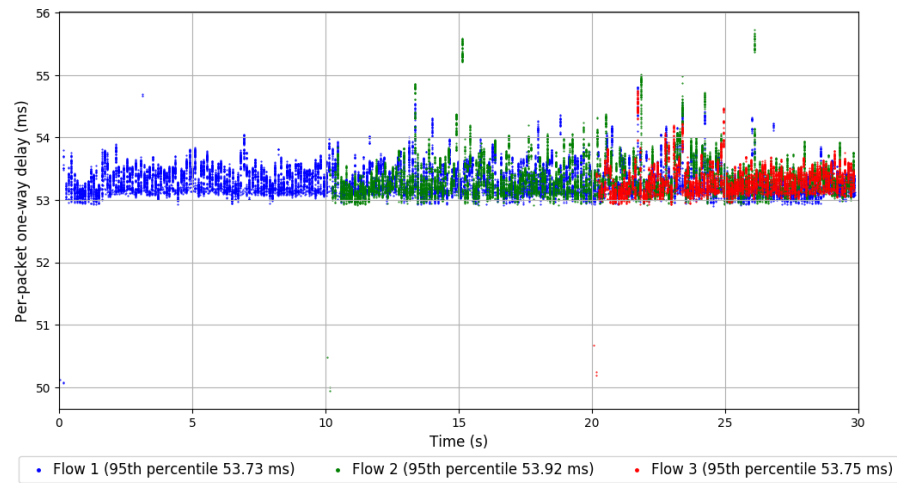
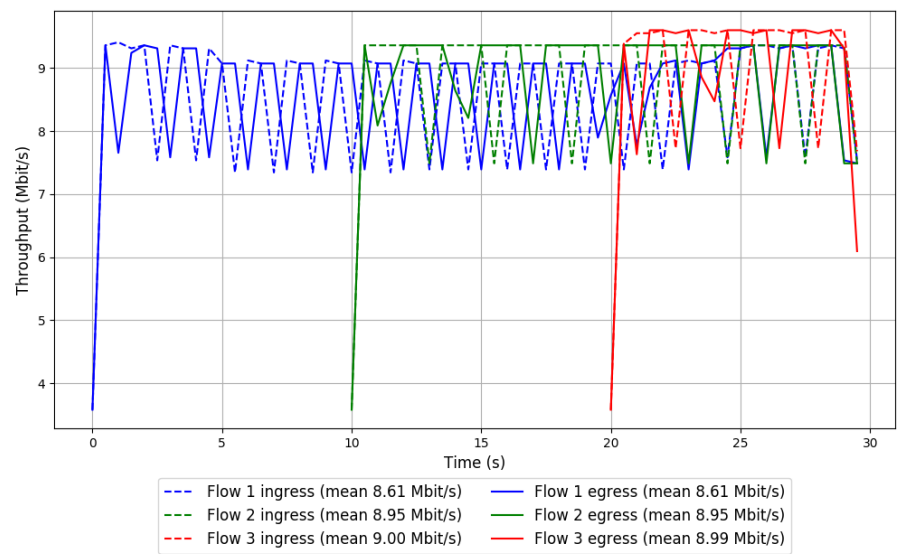
-- Flow 3:

Average throughput: 8.99 Mbit/s

95th percentile per-packet one-way delay: 53.751 ms

Loss rate: 1.08%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2017-12-01 02:57:42

End at: 2017-12-01 02:58:12

Below is generated by plot.py at 2017-12-01 07:07:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 119.35 Mbit/s

95th percentile per-packet one-way delay: 59.930 ms

Loss rate: 0.61%

-- Flow 1:

Average throughput: 7.95 Mbit/s

95th percentile per-packet one-way delay: 54.408 ms

Loss rate: 0.97%

-- Flow 2:

Average throughput: 128.28 Mbit/s

95th percentile per-packet one-way delay: 57.597 ms

Loss rate: 0.51%

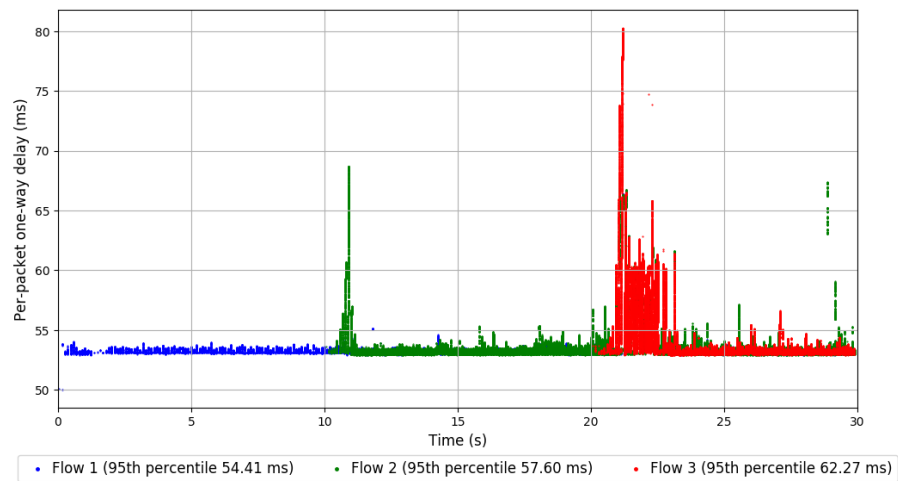
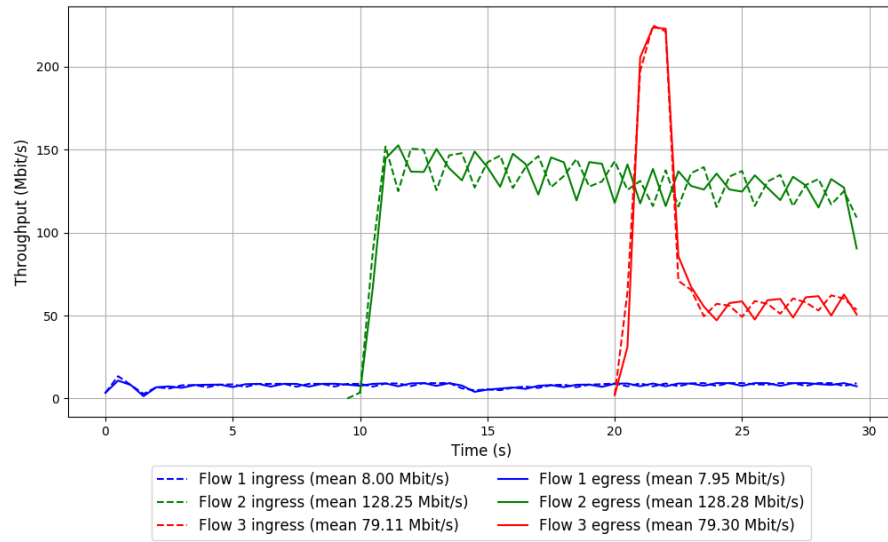
-- Flow 3:

Average throughput: 79.30 Mbit/s

95th percentile per-packet one-way delay: 62.273 ms

Loss rate: 0.84%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2017-12-01 03:10:00

End at: 2017-12-01 03:10:30

Below is generated by plot.py at 2017-12-01 07:07:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 128.46 Mbit/s

95th percentile per-packet one-way delay: 55.233 ms

Loss rate: 0.45%

-- Flow 1:

Average throughput: 67.16 Mbit/s

95th percentile per-packet one-way delay: 55.249 ms

Loss rate: 0.37%

-- Flow 2:

Average throughput: 61.72 Mbit/s

95th percentile per-packet one-way delay: 55.280 ms

Loss rate: 0.43%

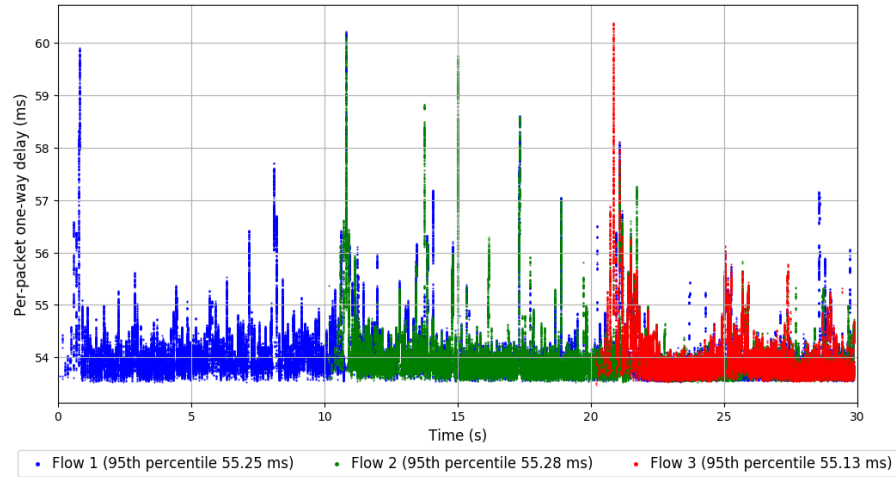
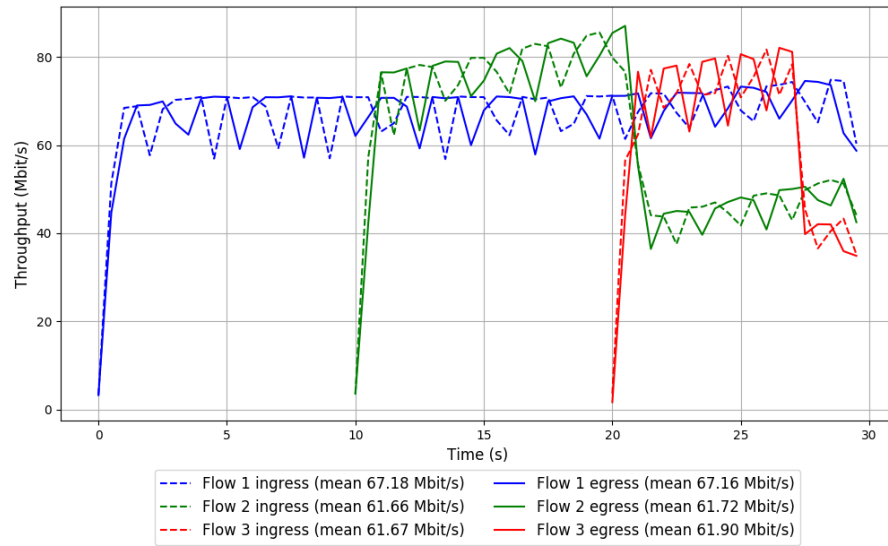
-- Flow 3:

Average throughput: 61.90 Mbit/s

95th percentile per-packet one-way delay: 55.133 ms

Loss rate: 0.72%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2017-12-01 03:22:09

End at: 2017-12-01 03:22:39

Below is generated by plot.py at 2017-12-01 07:07:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 137.27 Mbit/s

95th percentile per-packet one-way delay: 55.062 ms

Loss rate: 0.75%

-- Flow 1:

Average throughput: 47.98 Mbit/s

95th percentile per-packet one-way delay: 55.195 ms

Loss rate: 0.77%

-- Flow 2:

Average throughput: 91.53 Mbit/s

95th percentile per-packet one-way delay: 54.757 ms

Loss rate: 0.52%

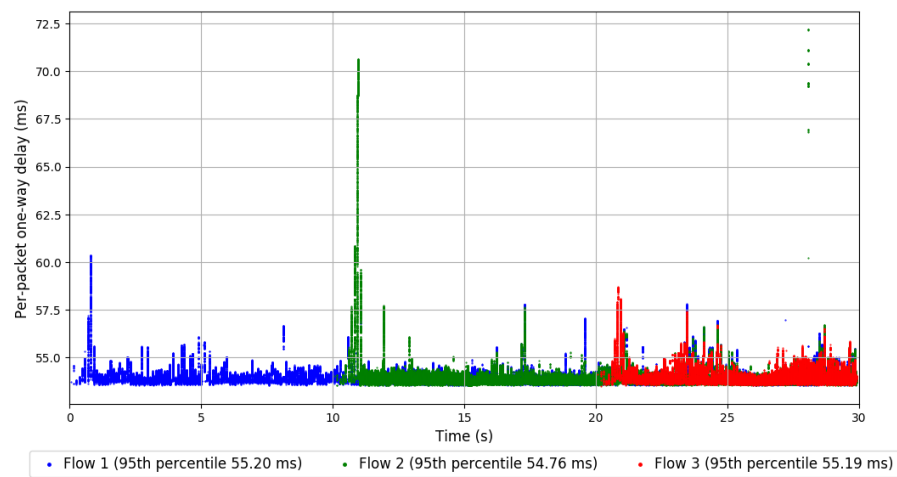
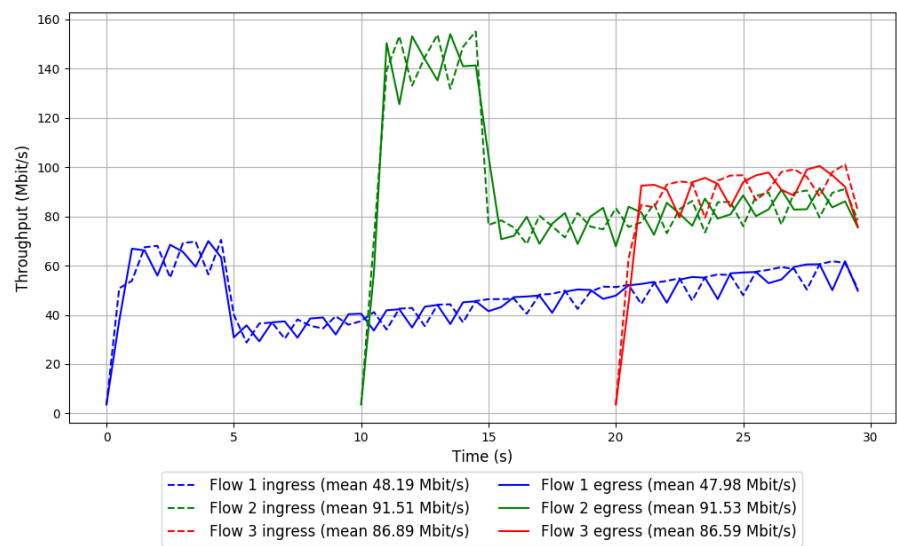
-- Flow 3:

Average throughput: 86.59 Mbit/s

95th percentile per-packet one-way delay: 55.185 ms

Loss rate: 1.19%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2017-12-01 03:34:32

End at: 2017-12-01 03:35:02

Below is generated by plot.py at 2017-12-01 07:07:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 68.53 Mbit/s

95th percentile per-packet one-way delay: 54.792 ms

Loss rate: 0.89%

-- Flow 1:

Average throughput: 8.34 Mbit/s

95th percentile per-packet one-way delay: 54.526 ms

Loss rate: 0.31%

-- Flow 2:

Average throughput: 54.14 Mbit/s

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

Loss rate: 0.82%

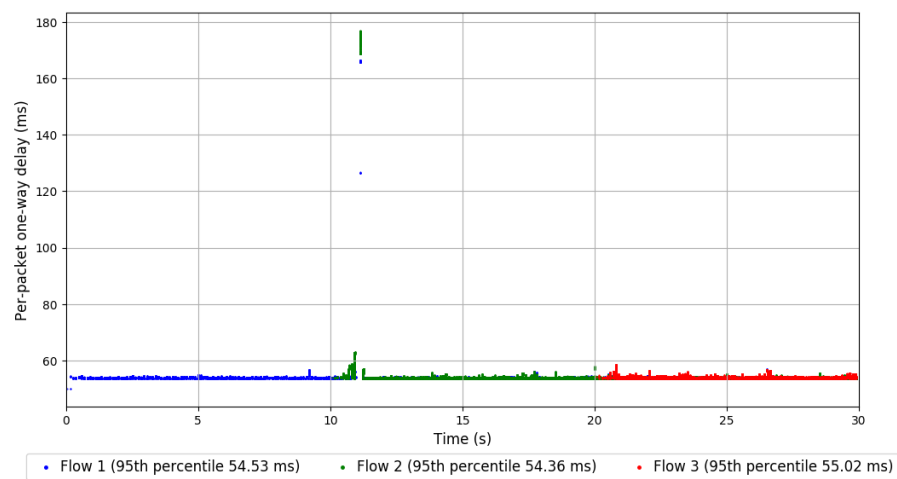
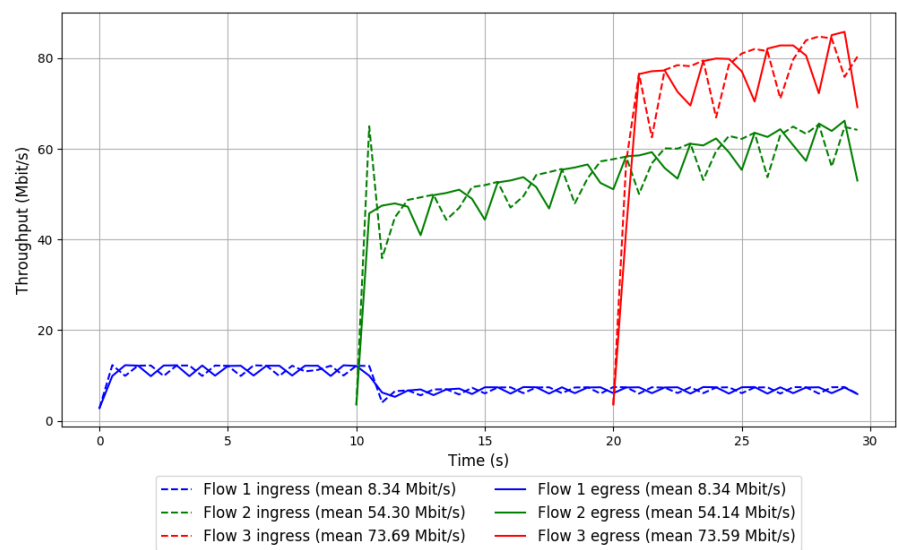
-- Flow 3:

Average throughput: 73.59 Mbit/s

95th percentile per-packet one-way delay: 55.021 ms

Loss rate: 1.18%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2017-12-01 03:46:33

End at: 2017-12-01 03:47:03

Below is generated by plot.py at 2017-12-01 07:07:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 66.72 Mbit/s

95th percentile per-packet one-way delay: 54.299 ms

Loss rate: 0.74%

-- Flow 1:

Average throughput: 34.39 Mbit/s

95th percentile per-packet one-way delay: 54.156 ms

Loss rate: 0.43%

-- Flow 2:

Average throughput: 8.55 Mbit/s

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

Loss rate: 0.53%

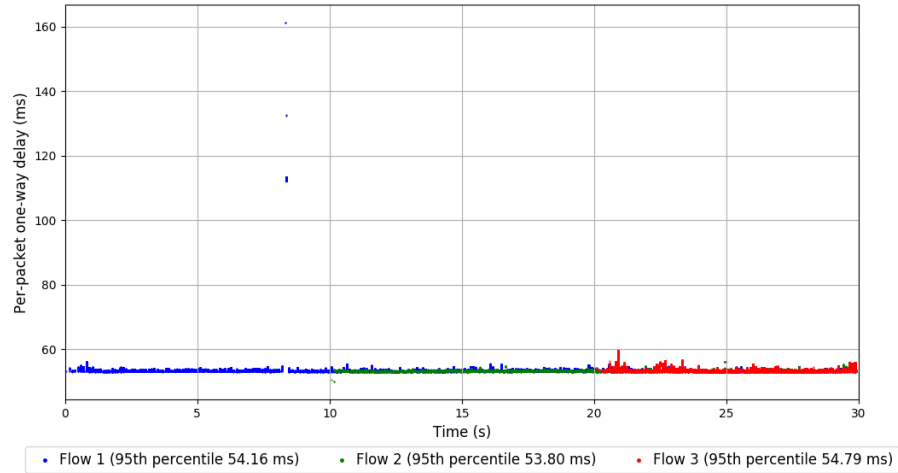
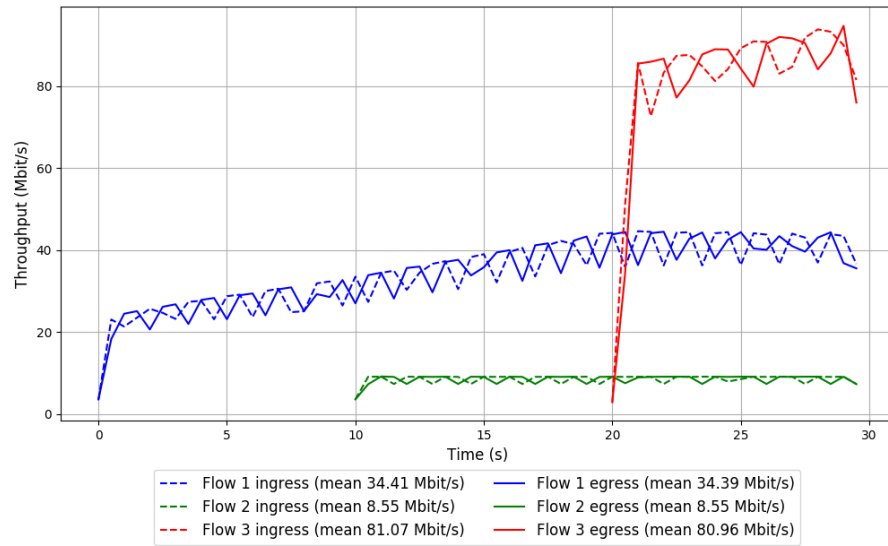
-- Flow 3:

Average throughput: 80.96 Mbit/s

95th percentile per-packet one-way delay: 54.793 ms

Loss rate: 1.18%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2017-12-01 03:58:32

End at: 2017-12-01 03:59:02

Below is generated by plot.py at 2017-12-01 07:07:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 251.31 Mbit/s

95th percentile per-packet one-way delay: 58.210 ms

Loss rate: 0.43%

-- Flow 1:

Average throughput: 190.83 Mbit/s

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

Loss rate: 0.34%

-- Flow 2:

Average throughput: 35.39 Mbit/s

95th percentile per-packet one-way delay: 58.178 ms

Loss rate: 0.48%

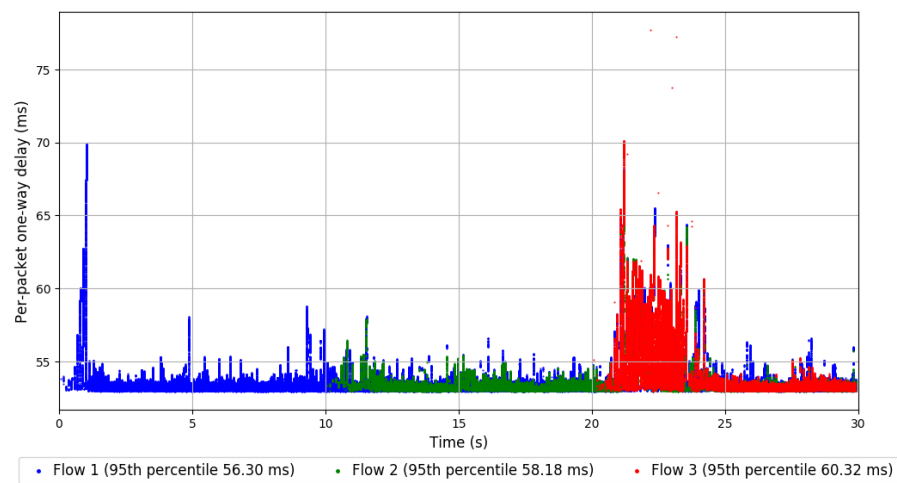
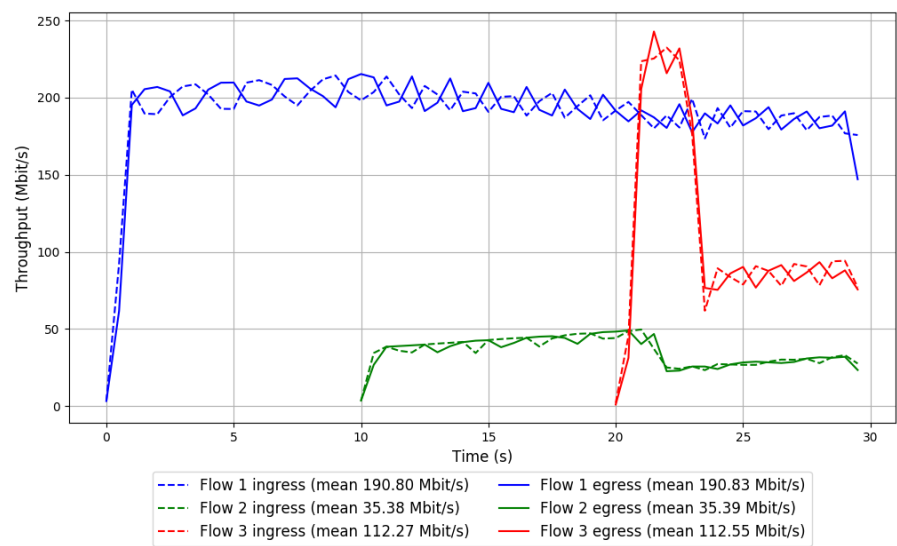
-- Flow 3:

Average throughput: 112.55 Mbit/s

95th percentile per-packet one-way delay: 60.316 ms

Loss rate: 0.86%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2017-12-01 04:11:08

End at: 2017-12-01 04:11:38

Below is generated by plot.py at 2017-12-01 07:07:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.90 Mbit/s

95th percentile per-packet one-way delay: 61.513 ms

Loss rate: 0.87%

-- Flow 1:

Average throughput: 36.01 Mbit/s

95th percentile per-packet one-way delay: 58.664 ms

Loss rate: 0.39%

-- Flow 2:

Average throughput: 88.83 Mbit/s

95th percentile per-packet one-way delay: 62.951 ms

Loss rate: 1.15%

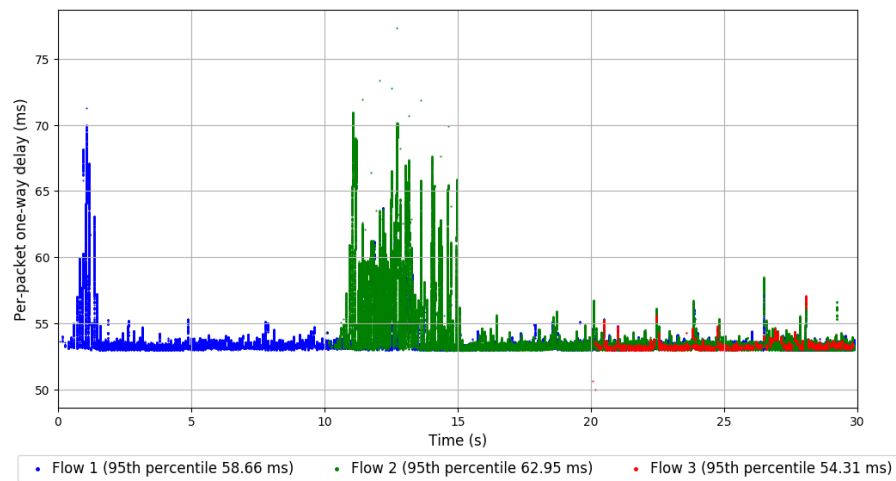
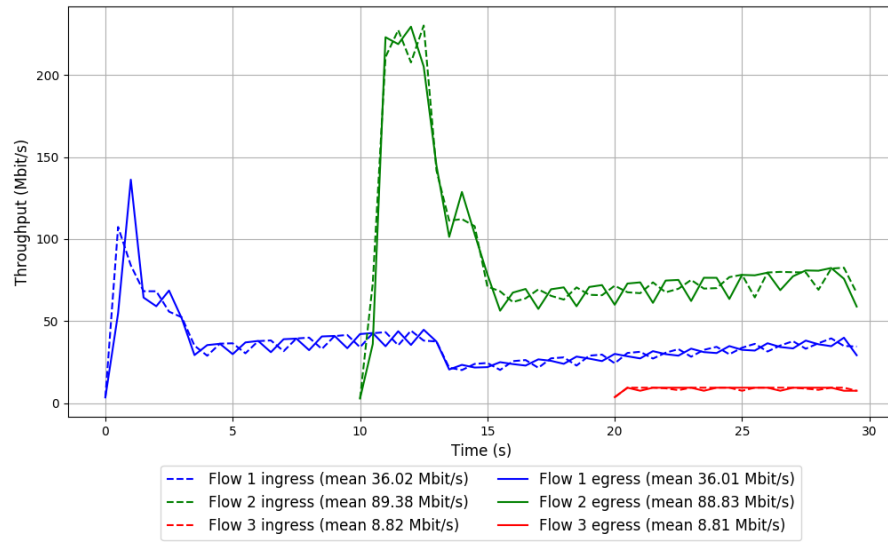
-- Flow 3:

Average throughput: 8.81 Mbit/s

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

Loss rate: 1.08%

Run 10: Report of TCP Vegas — Data Link

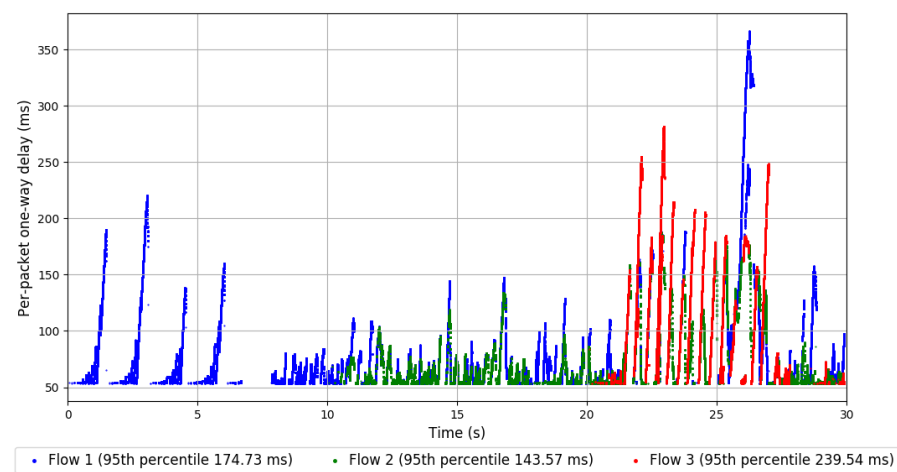
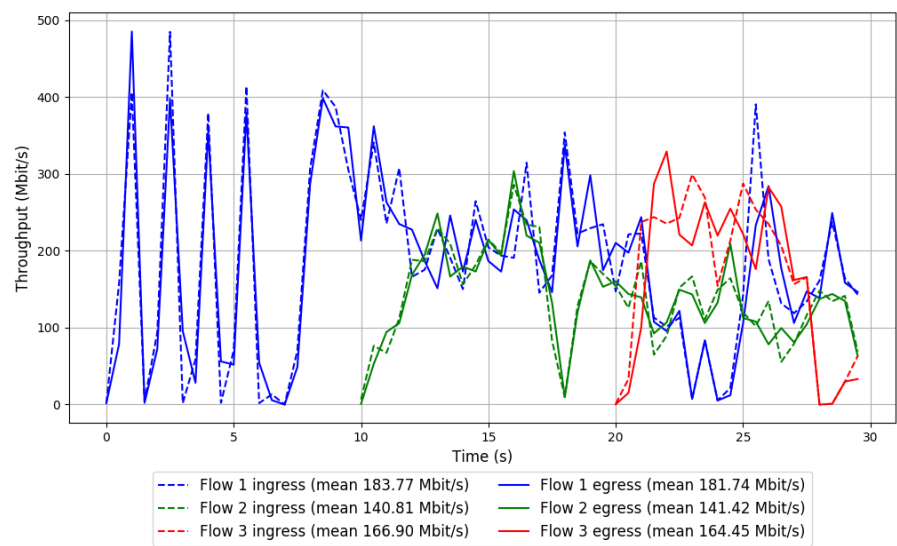


```
Run 1: Statistics of Verus

Start at: 2017-12-01 02:16:44
End at: 2017-12-01 02:17:14

# Below is generated by plot.py at 2017-12-01 07:07:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 329.14 Mbit/s
95th percentile per-packet one-way delay: 182.194 ms
Loss rate: 1.32%
-- Flow 1:
Average throughput: 181.74 Mbit/s
95th percentile per-packet one-way delay: 174.728 ms
Loss rate: 1.10%
-- Flow 2:
Average throughput: 141.42 Mbit/s
95th percentile per-packet one-way delay: 143.566 ms
Loss rate: 0.76%
-- Flow 3:
Average throughput: 164.45 Mbit/s
95th percentile per-packet one-way delay: 239.541 ms
Loss rate: 3.02%
```


Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2017-12-01 02:28:39

End at: 2017-12-01 02:29:09

Below is generated by plot.py at 2017-12-01 07:08:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 337.25 Mbit/s

95th percentile per-packet one-way delay: 242.389 ms

Loss rate: 5.79%

-- Flow 1:

Average throughput: 235.04 Mbit/s

95th percentile per-packet one-way delay: 251.217 ms

Loss rate: 7.53%

-- Flow 2:

Average throughput: 119.29 Mbit/s

95th percentile per-packet one-way delay: 151.648 ms

Loss rate: 0.52%

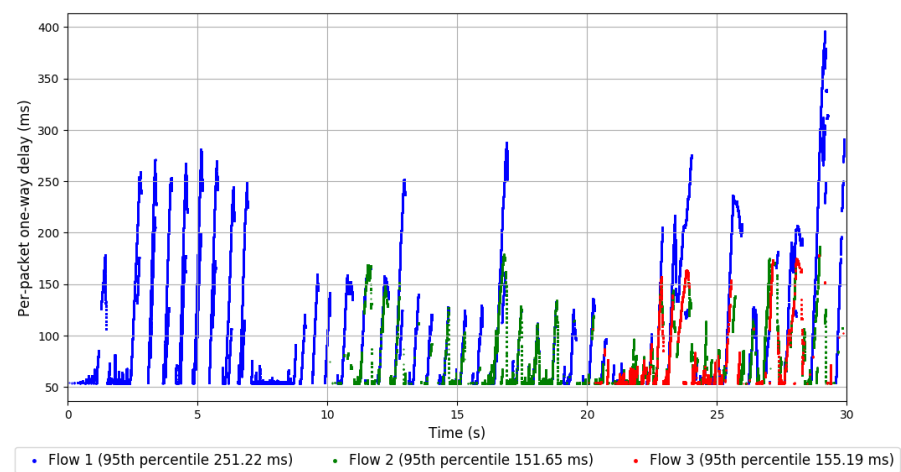
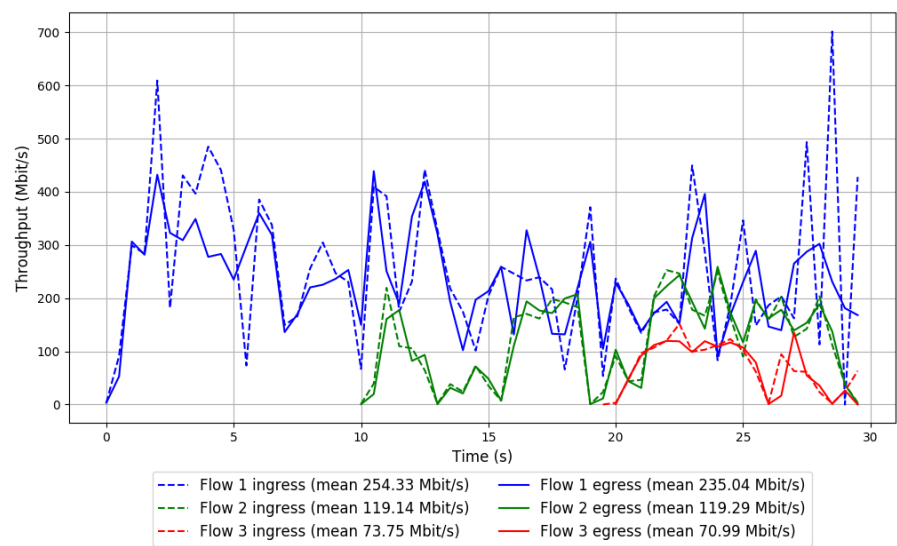
-- Flow 3:

Average throughput: 70.99 Mbit/s

95th percentile per-packet one-way delay: 155.195 ms

Loss rate: 4.74%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2017-12-01 02:40:51

End at: 2017-12-01 02:41:21

Below is generated by plot.py at 2017-12-01 07:08:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 365.07 Mbit/s

95th percentile per-packet one-way delay: 185.935 ms

Loss rate: 0.94%

-- Flow 1:

Average throughput: 192.78 Mbit/s

95th percentile per-packet one-way delay: 142.930 ms

Loss rate: 0.50%

-- Flow 2:

Average throughput: 231.75 Mbit/s

95th percentile per-packet one-way delay: 214.735 ms

Loss rate: 1.06%

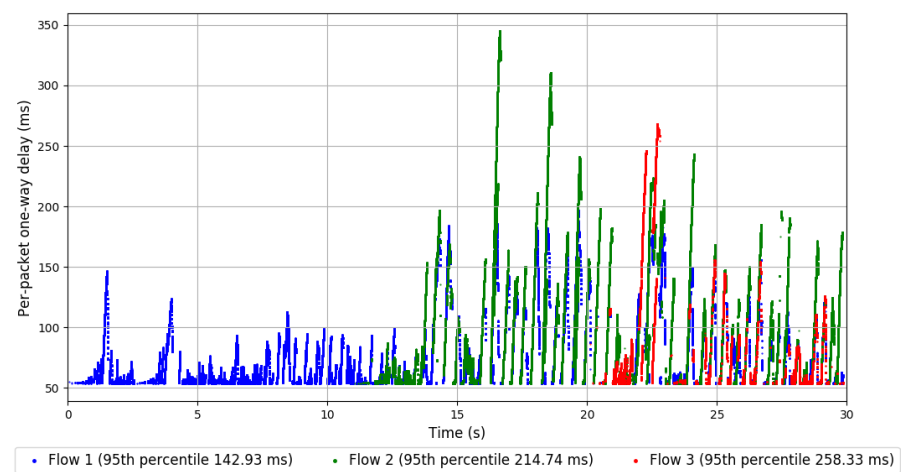
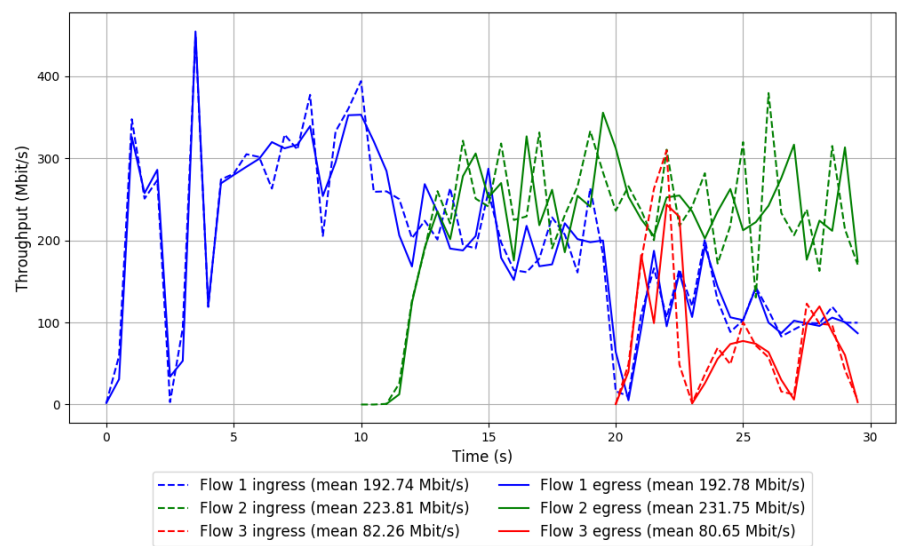
-- Flow 3:

Average throughput: 80.65 Mbit/s

95th percentile per-packet one-way delay: 258.334 ms

Loss rate: 3.36%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2017-12-01 02:52:55

End at: 2017-12-01 02:53:25

Below is generated by plot.py at 2017-12-01 07:08:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 358.93 Mbit/s

95th percentile per-packet one-way delay: 100.520 ms

Loss rate: 1.29%

-- Flow 1:

Average throughput: 224.77 Mbit/s

95th percentile per-packet one-way delay: 102.383 ms

Loss rate: 1.48%

-- Flow 2:

Average throughput: 156.15 Mbit/s

95th percentile per-packet one-way delay: 102.582 ms

Loss rate: 1.25%

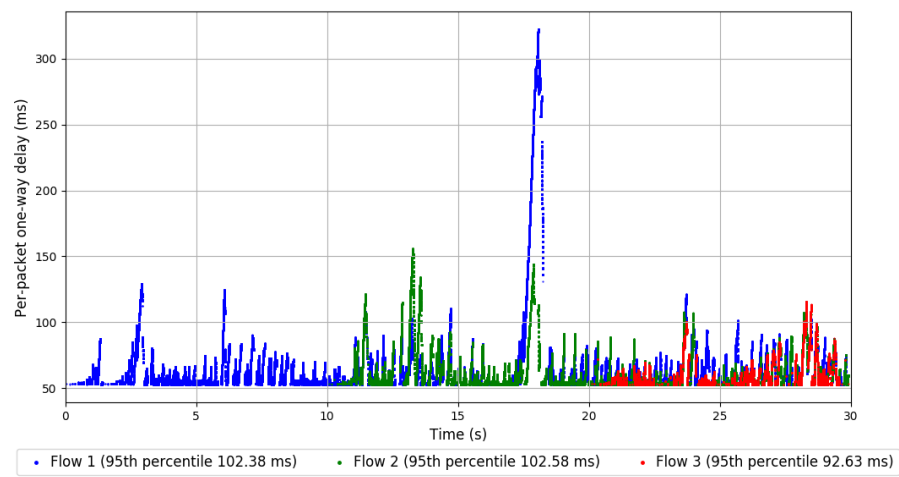
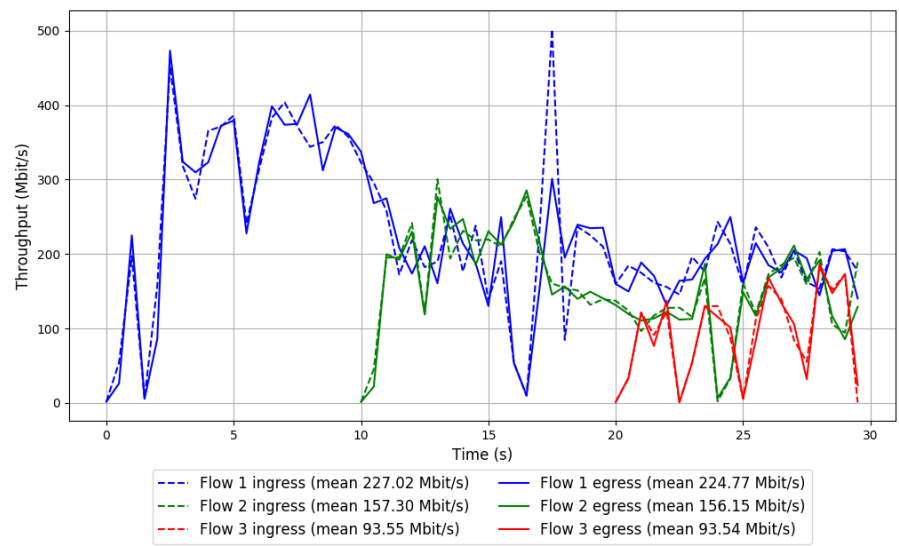
-- Flow 3:

Average throughput: 93.54 Mbit/s

95th percentile per-packet one-way delay: 92.631 ms

Loss rate: 0.02%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2017-12-01 03:05:16

End at: 2017-12-01 03:05:46

Below is generated by plot.py at 2017-12-01 07:08:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 316.16 Mbit/s

95th percentile per-packet one-way delay: 130.771 ms

Loss rate: 1.06%

-- Flow 1:

Average throughput: 171.15 Mbit/s

95th percentile per-packet one-way delay: 127.417 ms

Loss rate: 0.67%

-- Flow 2:

Average throughput: 152.50 Mbit/s

95th percentile per-packet one-way delay: 120.668 ms

Loss rate: 0.47%

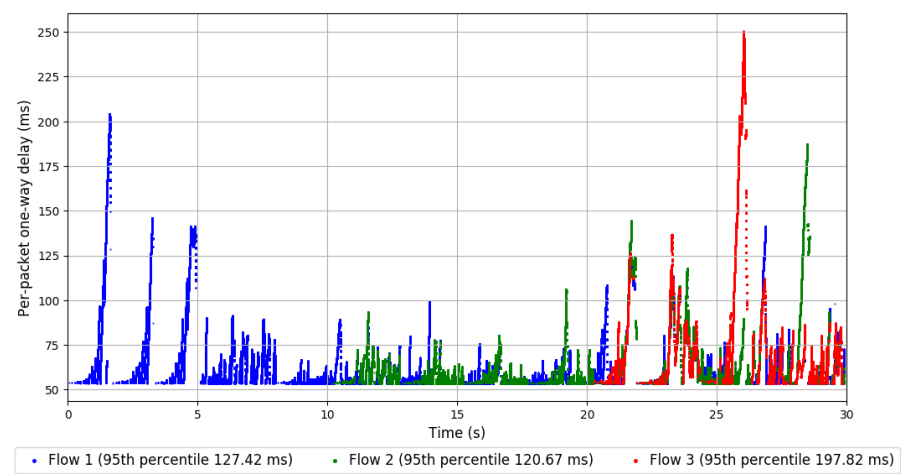
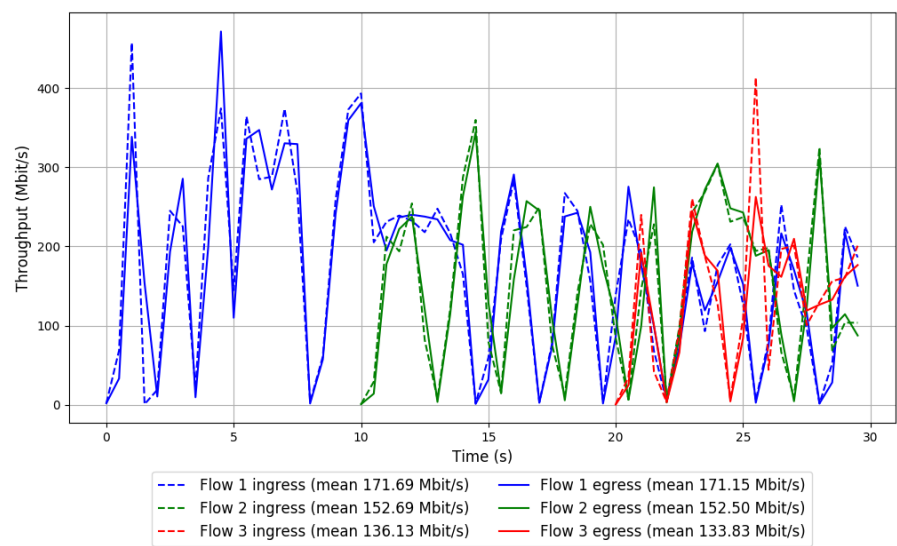
-- Flow 3:

Average throughput: 133.83 Mbit/s

95th percentile per-packet one-way delay: 197.825 ms

Loss rate: 3.83%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2017-12-01 03:17:39

End at: 2017-12-01 03:18:09

Below is generated by plot.py at 2017-12-01 07:09:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 334.80 Mbit/s

95th percentile per-packet one-way delay: 108.553 ms

Loss rate: 1.51%

-- Flow 1:

Average throughput: 206.46 Mbit/s

95th percentile per-packet one-way delay: 117.120 ms

Loss rate: 1.85%

-- Flow 2:

Average throughput: 129.06 Mbit/s

95th percentile per-packet one-way delay: 92.065 ms

Loss rate: 0.80%

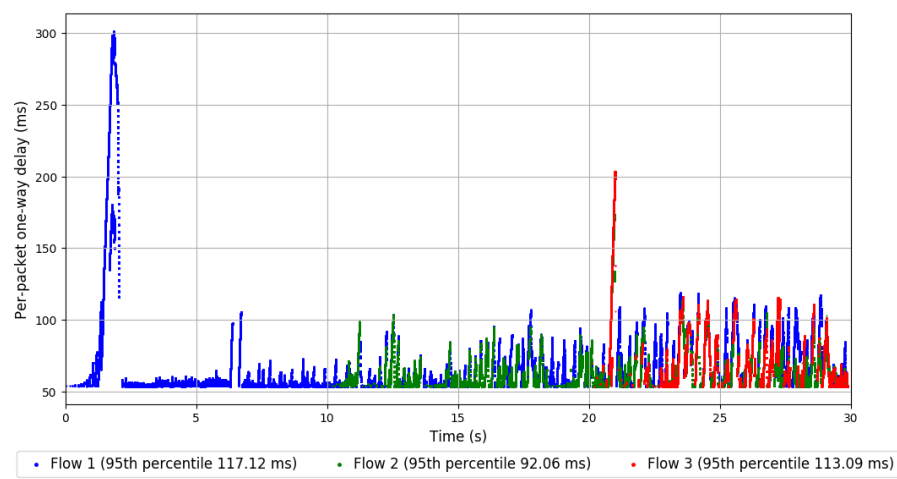
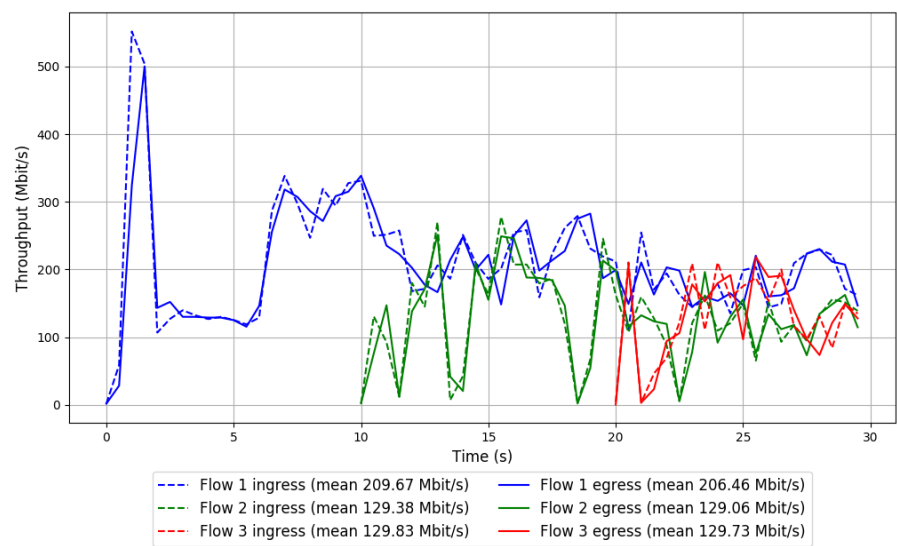
-- Flow 3:

Average throughput: 129.73 Mbit/s

95th percentile per-packet one-way delay: 113.091 ms

Loss rate: 1.32%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2017-12-01 03:29:48

End at: 2017-12-01 03:30:18

Below is generated by plot.py at 2017-12-01 07:12:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 349.44 Mbit/s

95th percentile per-packet one-way delay: 115.999 ms

Loss rate: 1.66%

-- Flow 1:

Average throughput: 217.38 Mbit/s

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

Loss rate: 2.18%

-- Flow 2:

Average throughput: 134.47 Mbit/s

95th percentile per-packet one-way delay: 106.911 ms

Loss rate: 1.16%

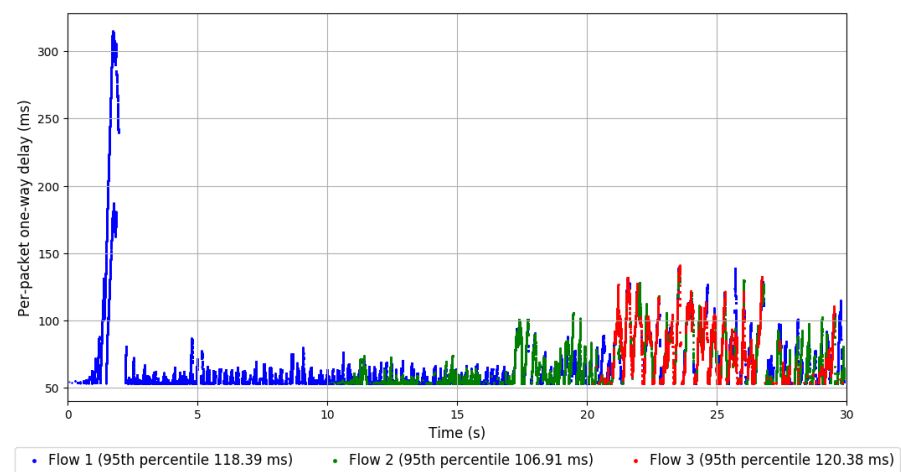
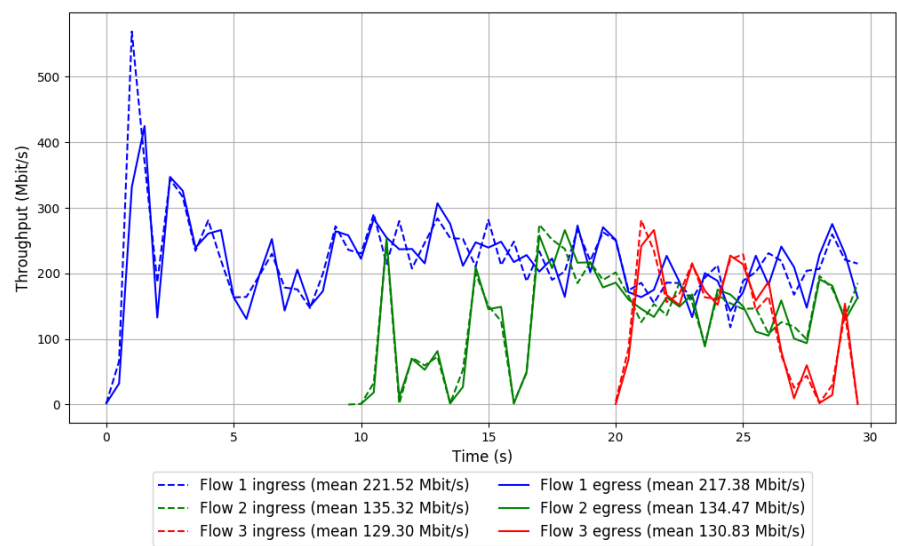
-- Flow 3:

Average throughput: 130.83 Mbit/s

95th percentile per-packet one-way delay: 120.378 ms

Loss rate: 0.04%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2017-12-01 03:42:00

End at: 2017-12-01 03:42:30

Below is generated by plot.py at 2017-12-01 07:13:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 347.60 Mbit/s

95th percentile per-packet one-way delay: 113.246 ms

Loss rate: 1.16%

-- Flow 1:

Average throughput: 217.32 Mbit/s

95th percentile per-packet one-way delay: 114.277 ms

Loss rate: 1.12%

-- Flow 2:

Average throughput: 140.77 Mbit/s

95th percentile per-packet one-way delay: 102.179 ms

Loss rate: 0.52%

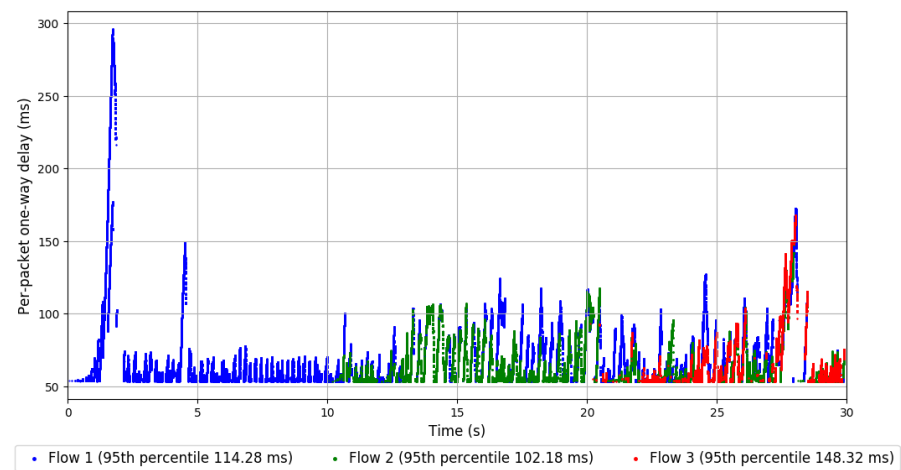
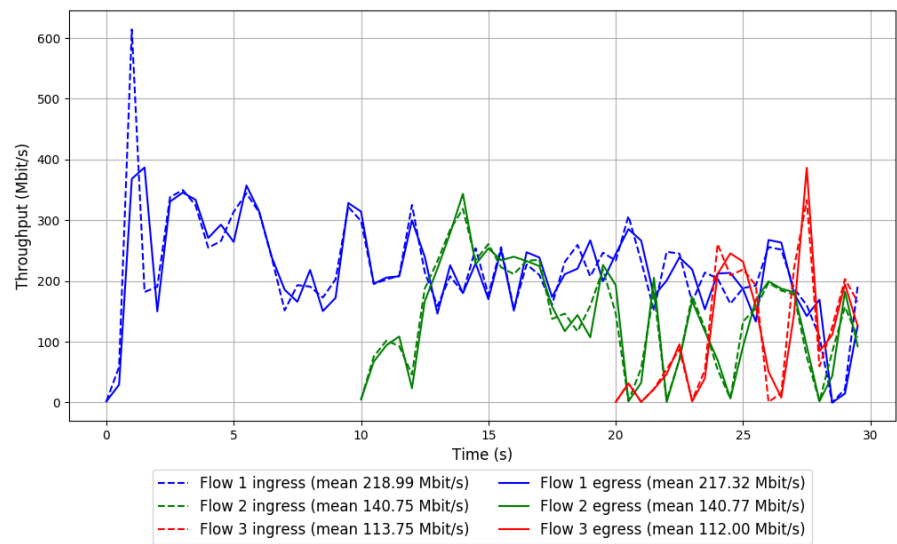
-- Flow 3:

Average throughput: 112.00 Mbit/s

95th percentile per-packet one-way delay: 148.323 ms

Loss rate: 3.00%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2017-12-01 03:54:07

End at: 2017-12-01 03:54:37

Below is generated by plot.py at 2017-12-01 07:13:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 329.25 Mbit/s

95th percentile per-packet one-way delay: 144.280 ms

Loss rate: 0.99%

-- Flow 1:

Average throughput: 207.45 Mbit/s

95th percentile per-packet one-way delay: 156.408 ms

Loss rate: 0.71%

-- Flow 2:

Average throughput: 140.67 Mbit/s

95th percentile per-packet one-way delay: 125.842 ms

Loss rate: 1.08%

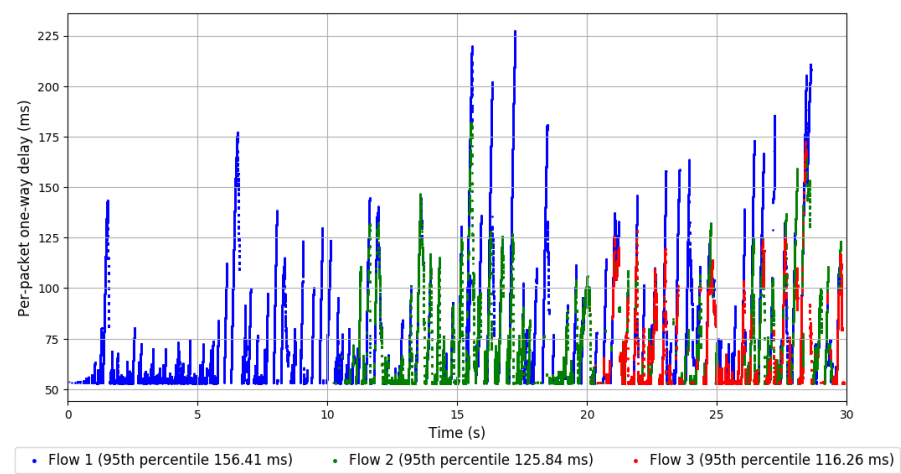
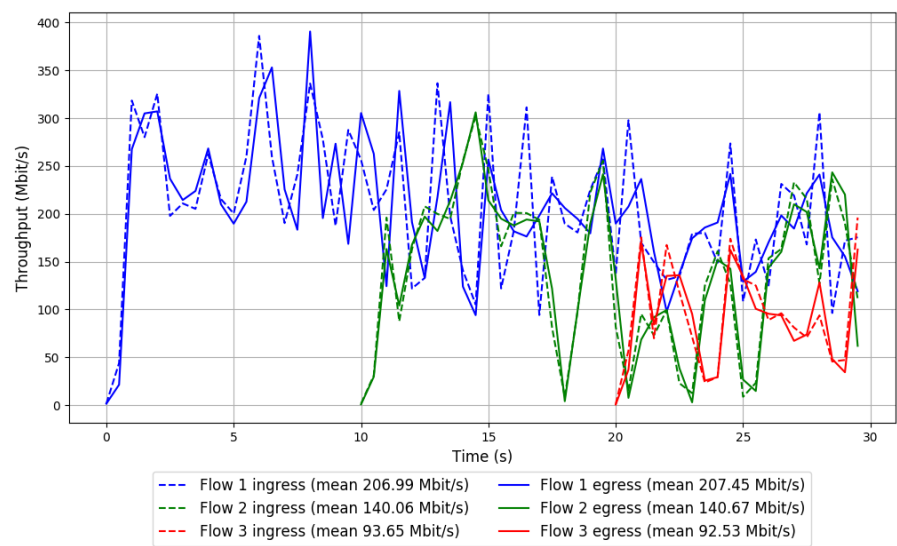
-- Flow 3:

Average throughput: 92.53 Mbit/s

95th percentile per-packet one-way delay: 116.259 ms

Loss rate: 2.61%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2017-12-01 04:06:20

End at: 2017-12-01 04:06:50

Below is generated by plot.py at 2017-12-01 07:13:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 311.10 Mbit/s

95th percentile per-packet one-way delay: 163.330 ms

Loss rate: 0.95%

-- Flow 1:

Average throughput: 189.34 Mbit/s

95th percentile per-packet one-way delay: 199.057 ms

Loss rate: 1.19%

-- Flow 2:

Average throughput: 131.68 Mbit/s

95th percentile per-packet one-way delay: 82.669 ms

Loss rate: 0.00%

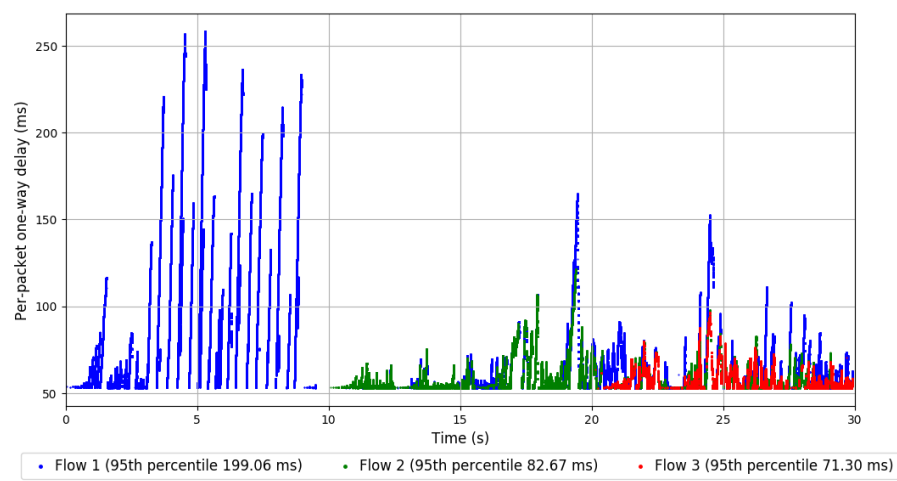
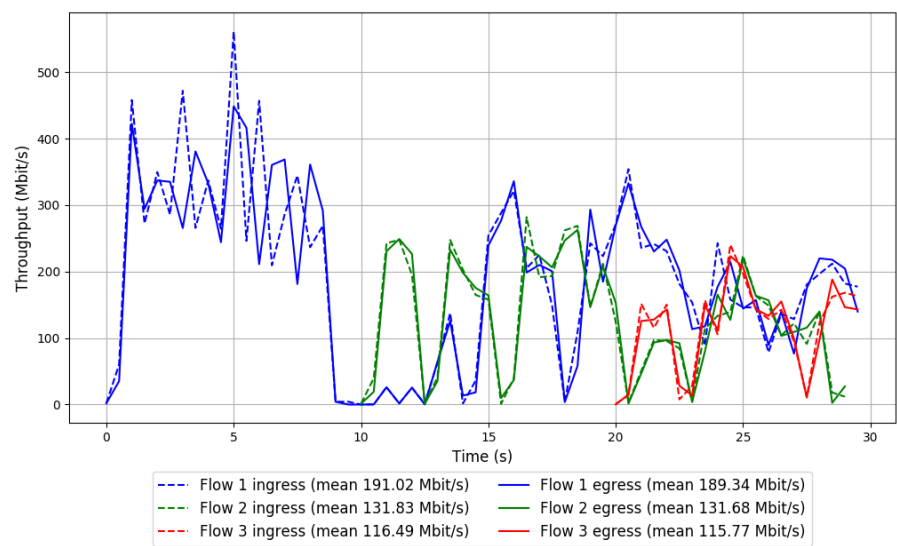
-- Flow 3:

Average throughput: 115.77 Mbit/s

95th percentile per-packet one-way delay: 71.304 ms

Loss rate: 1.80%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2017-12-01 02:22:28

End at: 2017-12-01 02:22:58

Below is generated by plot.py at 2017-12-01 07:13:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 137.68 Mbit/s

95th percentile per-packet one-way delay: 53.820 ms

Loss rate: 0.47%

-- Flow 1:

Average throughput: 71.45 Mbit/s

95th percentile per-packet one-way delay: 53.885 ms

Loss rate: 0.19%

-- Flow 2:

Average throughput: 67.20 Mbit/s

95th percentile per-packet one-way delay: 53.746 ms

Loss rate: 0.50%

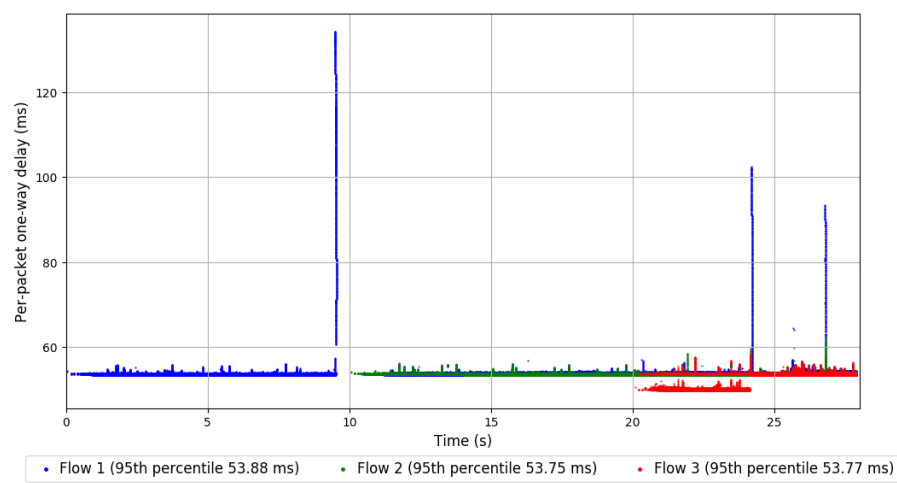
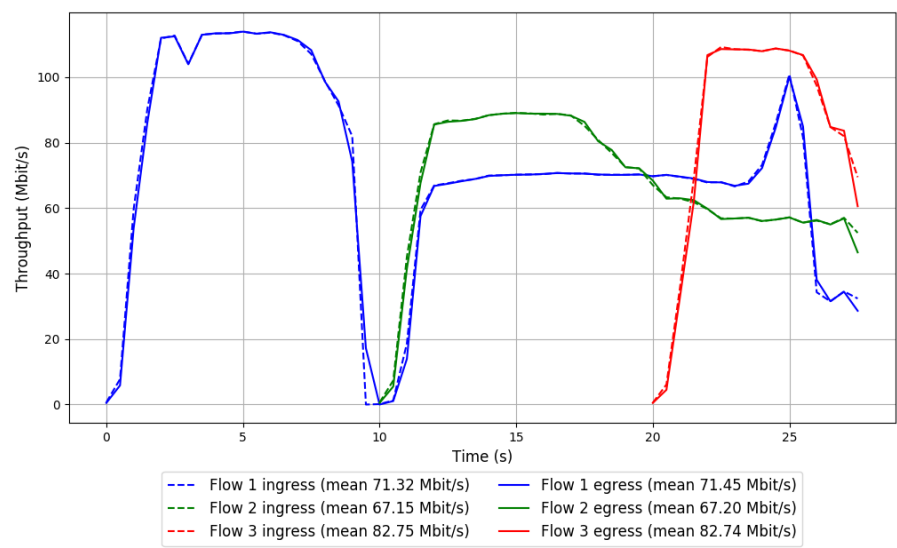
-- Flow 3:

Average throughput: 82.74 Mbit/s

95th percentile per-packet one-way delay: 53.773 ms

Loss rate: 1.29%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2017-12-01 02:34:39

End at: 2017-12-01 02:35:09

Below is generated by plot.py at 2017-12-01 07:13:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 131.26 Mbit/s

95th percentile per-packet one-way delay: 53.839 ms

Loss rate: 0.43%

-- Flow 1:

Average throughput: 66.60 Mbit/s

95th percentile per-packet one-way delay: 53.901 ms

Loss rate: 0.31%

-- Flow 2:

Average throughput: 71.64 Mbit/s

95th percentile per-packet one-way delay: 53.771 ms

Loss rate: 0.47%

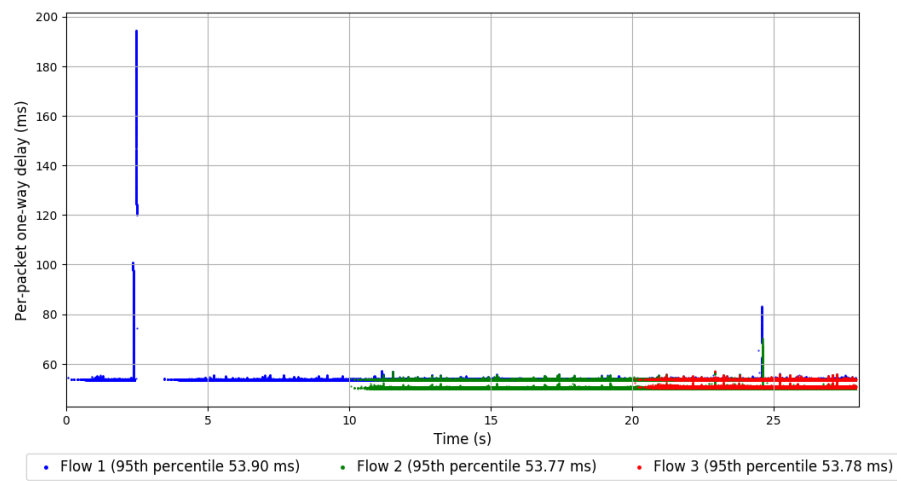
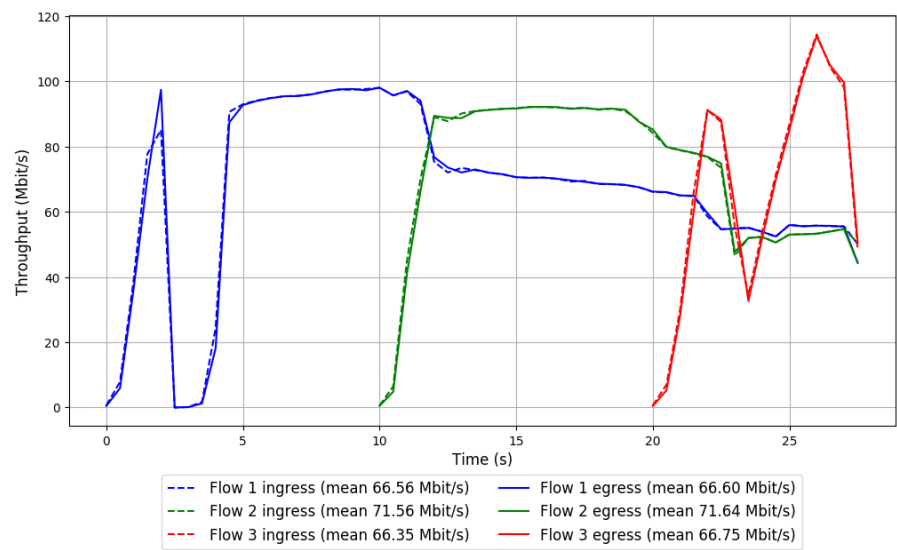
-- Flow 3:

Average throughput: 66.75 Mbit/s

95th percentile per-packet one-way delay: 53.783 ms

Loss rate: 0.75%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2017-12-01 02:46:44

End at: 2017-12-01 02:47:14

Below is generated by plot.py at 2017-12-01 07:13:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 147.83 Mbit/s

95th percentile per-packet one-way delay: 53.350 ms

Loss rate: 0.35%

-- Flow 1:

Average throughput: 77.75 Mbit/s

95th percentile per-packet one-way delay: 53.300 ms

Loss rate: 0.20%

-- Flow 2:

Average throughput: 80.09 Mbit/s

95th percentile per-packet one-way delay: 53.431 ms

Loss rate: 0.09%

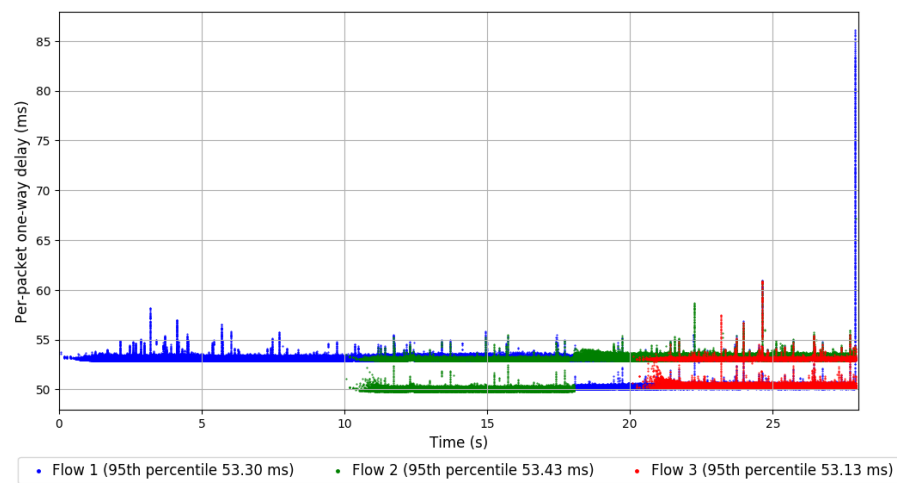
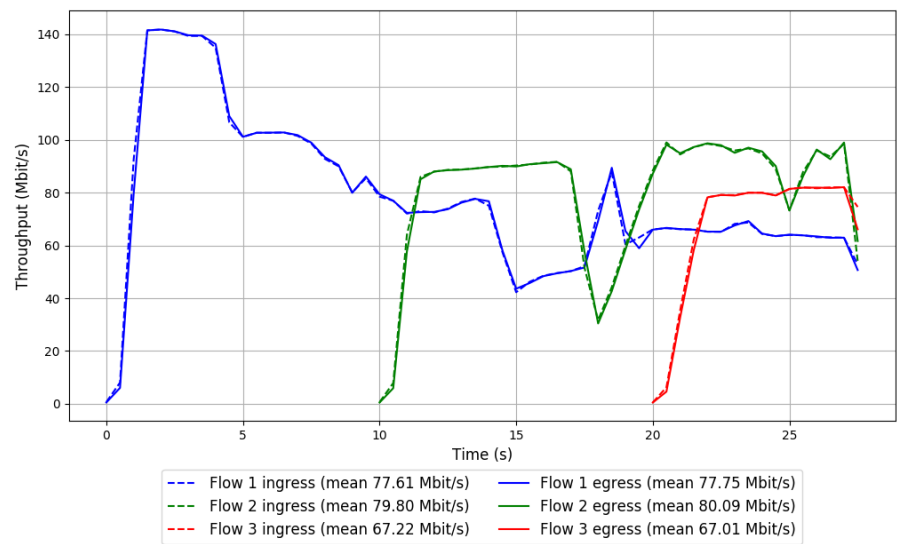
-- Flow 3:

Average throughput: 67.01 Mbit/s

95th percentile per-packet one-way delay: 53.131 ms

Loss rate: 1.61%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2017-12-01 02:59:10

End at: 2017-12-01 02:59:40

Below is generated by plot.py at 2017-12-01 07:13:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 134.80 Mbit/s

95th percentile per-packet one-way delay: 53.132 ms

Loss rate: 0.47%

-- Flow 1:

Average throughput: 80.39 Mbit/s

95th percentile per-packet one-way delay: 53.118 ms

Loss rate: 0.29%

-- Flow 2:

Average throughput: 49.44 Mbit/s

95th percentile per-packet one-way delay: 53.141 ms

Loss rate: 0.10%

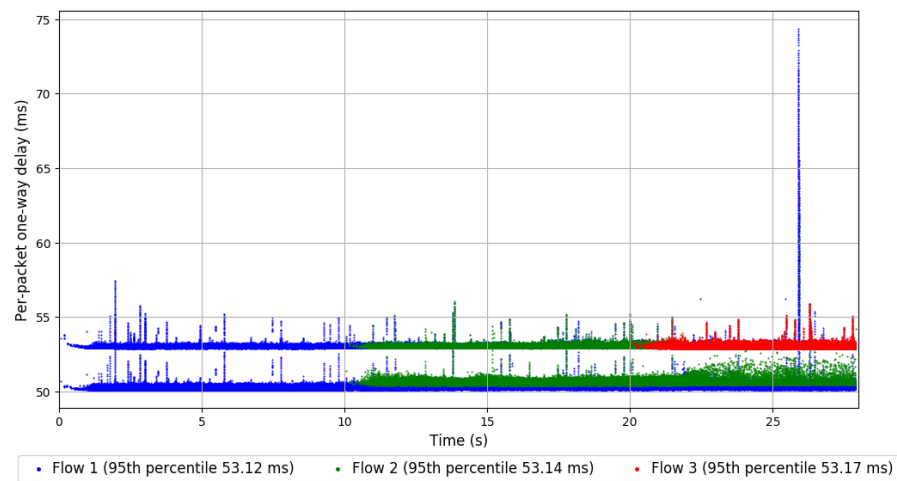
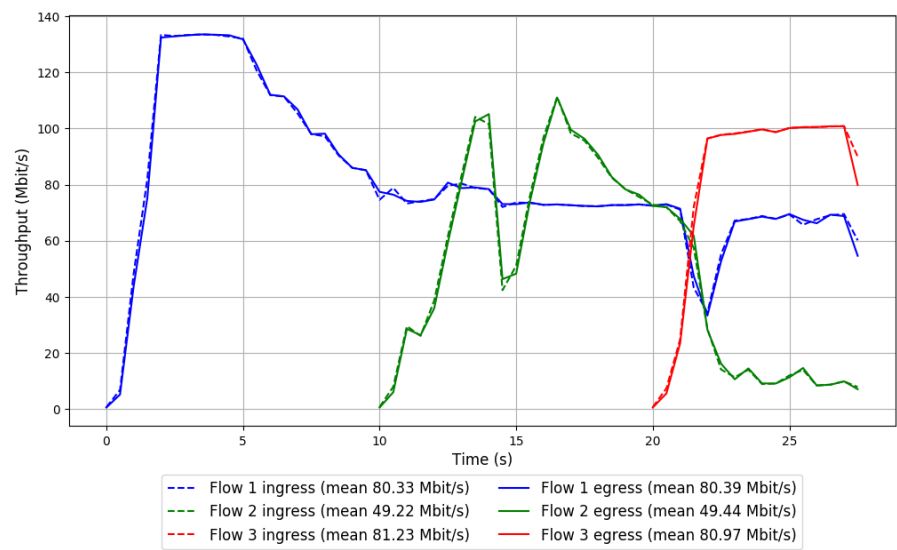
-- Flow 3:

Average throughput: 80.97 Mbit/s

95th percentile per-packet one-way delay: 53.166 ms

Loss rate: 1.62%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2017-12-01 03:11:29

End at: 2017-12-01 03:11:59

Below is generated by plot.py at 2017-12-01 07:15:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 129.13 Mbit/s

95th percentile per-packet one-way delay: 53.778 ms

Loss rate: 0.57%

-- Flow 1:

Average throughput: 73.50 Mbit/s

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

Loss rate: 0.40%

-- Flow 2:

Average throughput: 68.66 Mbit/s

95th percentile per-packet one-way delay: 53.809 ms

Loss rate: 0.54%

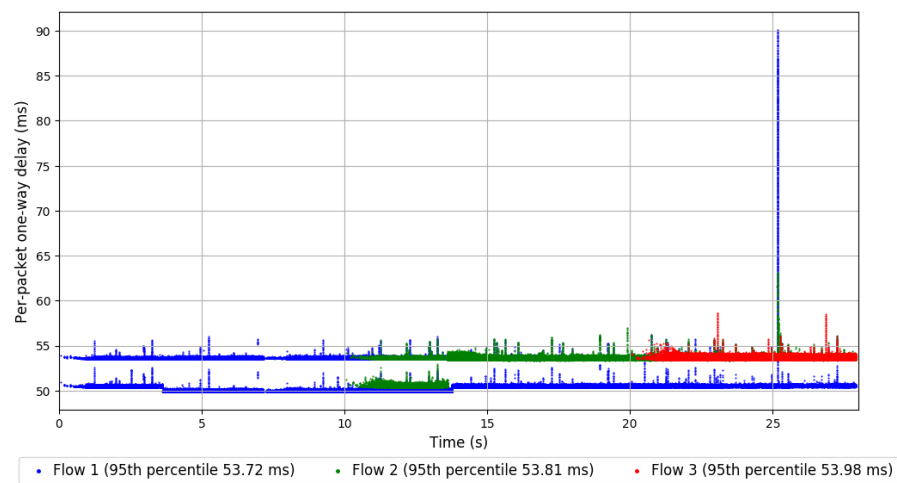
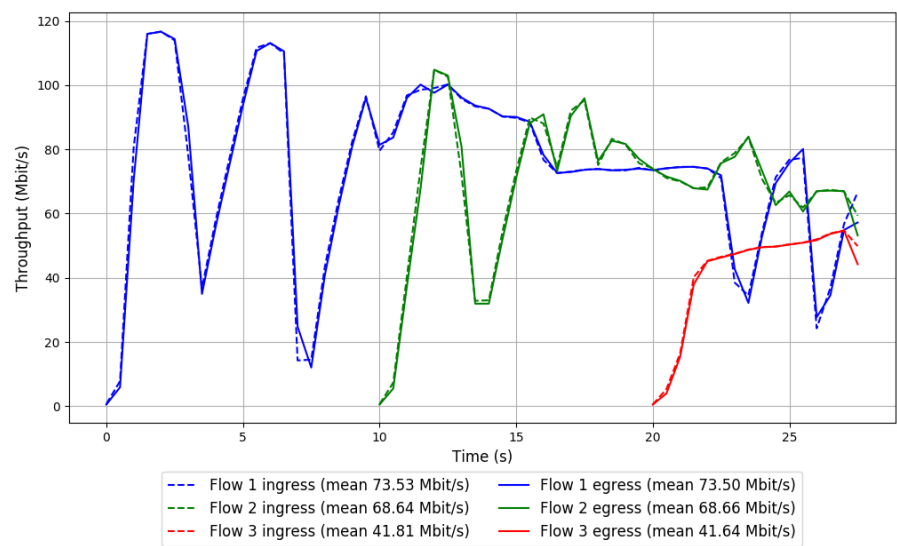
-- Flow 3:

Average throughput: 41.64 Mbit/s

95th percentile per-packet one-way delay: 53.983 ms

Loss rate: 1.75%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2017-12-01 03:23:38

End at: 2017-12-01 03:24:08

Below is generated by plot.py at 2017-12-01 07:16:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 125.97 Mbit/s

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

Loss rate: 0.70%

-- Flow 1:

Average throughput: 61.50 Mbit/s

95th percentile per-packet one-way delay: 53.783 ms

Loss rate: 0.59%

-- Flow 2:

Average throughput: 74.56 Mbit/s

95th percentile per-packet one-way delay: 53.780 ms

Loss rate: 0.48%

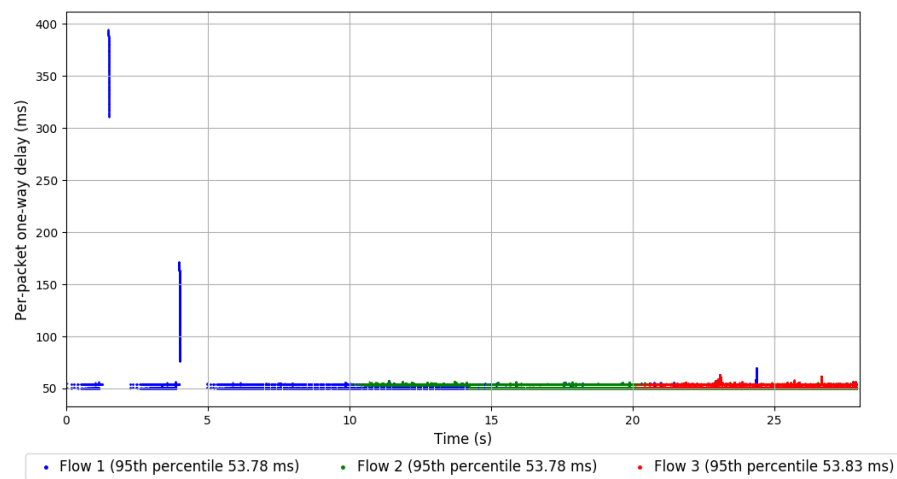
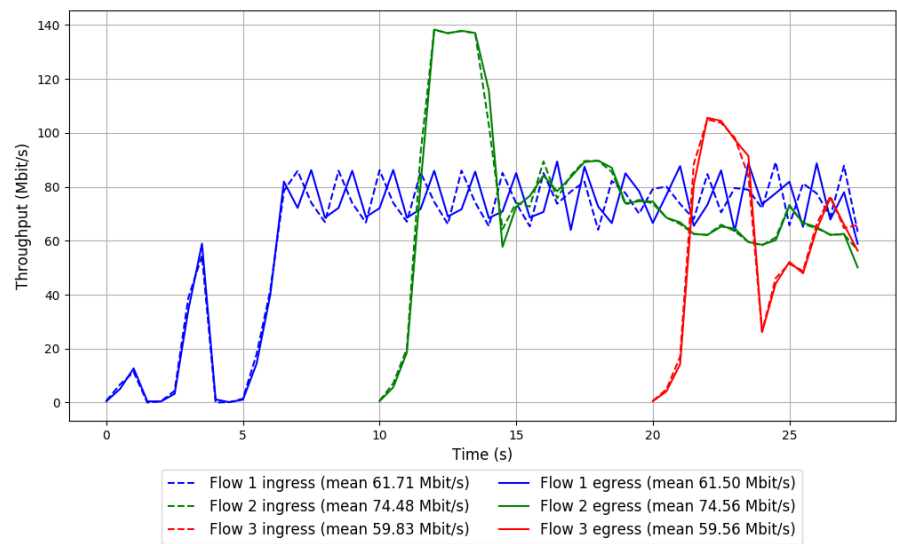
-- Flow 3:

Average throughput: 59.56 Mbit/s

95th percentile per-packet one-way delay: 53.832 ms

Loss rate: 1.74%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2017-12-01 03:35:57

End at: 2017-12-01 03:36:27

Below is generated by plot.py at 2017-12-01 07:16:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 122.98 Mbit/s

95th percentile per-packet one-way delay: 53.796 ms

Loss rate: 0.60%

-- Flow 1:

Average throughput: 49.49 Mbit/s

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

Loss rate: 0.34%

-- Flow 2:

Average throughput: 82.93 Mbit/s

95th percentile per-packet one-way delay: 53.746 ms

Loss rate: 0.55%

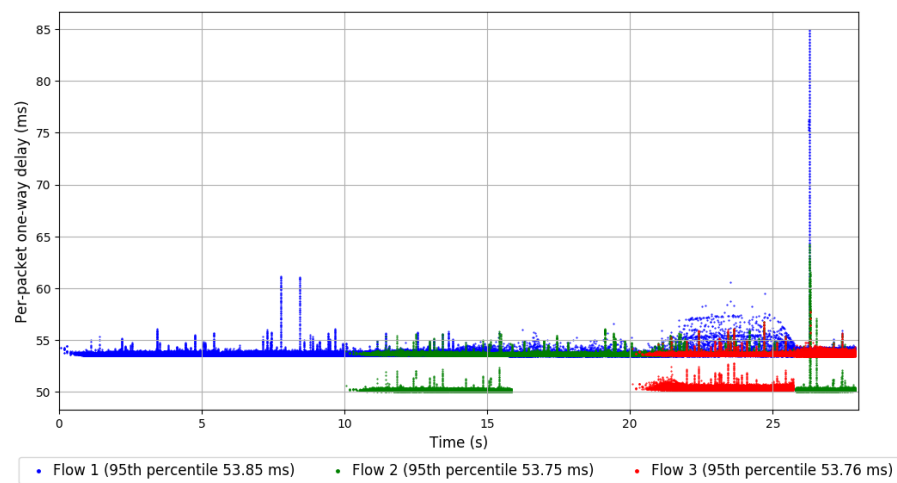
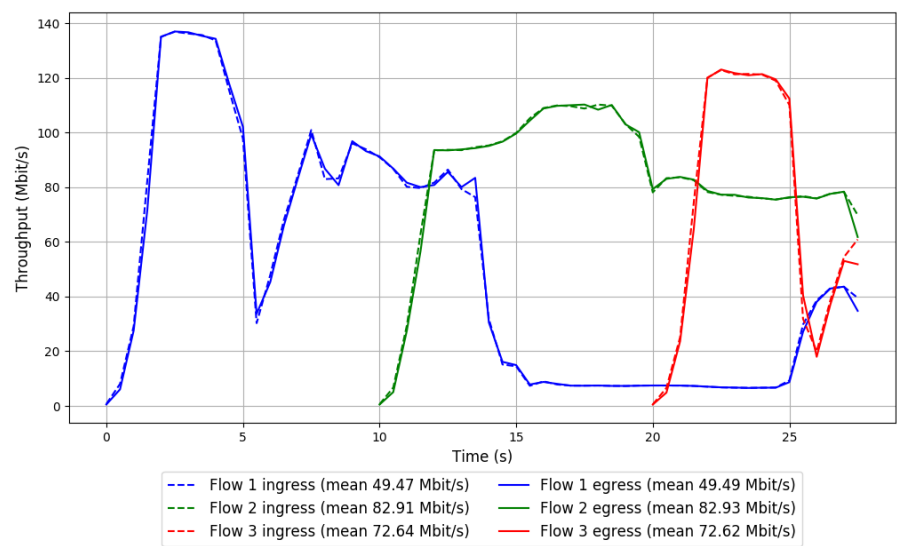
-- Flow 3:

Average throughput: 72.62 Mbit/s

95th percentile per-packet one-way delay: 53.764 ms

Loss rate: 1.35%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2017-12-01 03:47:58

End at: 2017-12-01 03:48:28

Below is generated by plot.py at 2017-12-01 07:16:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 127.35 Mbit/s

95th percentile per-packet one-way delay: 53.809 ms

Loss rate: 0.48%

-- Flow 1:

Average throughput: 76.00 Mbit/s

95th percentile per-packet one-way delay: 53.837 ms

Loss rate: 0.34%

-- Flow 2:

Average throughput: 71.70 Mbit/s

95th percentile per-packet one-way delay: 53.189 ms

Loss rate: 0.54%

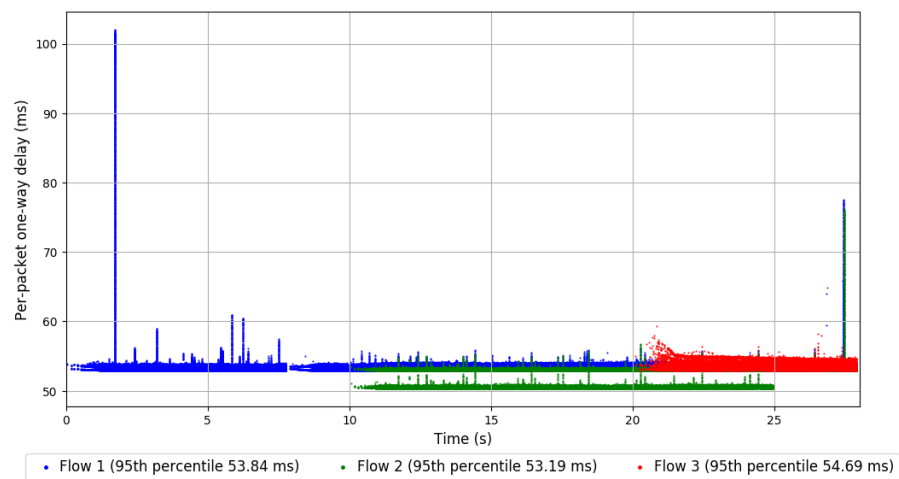
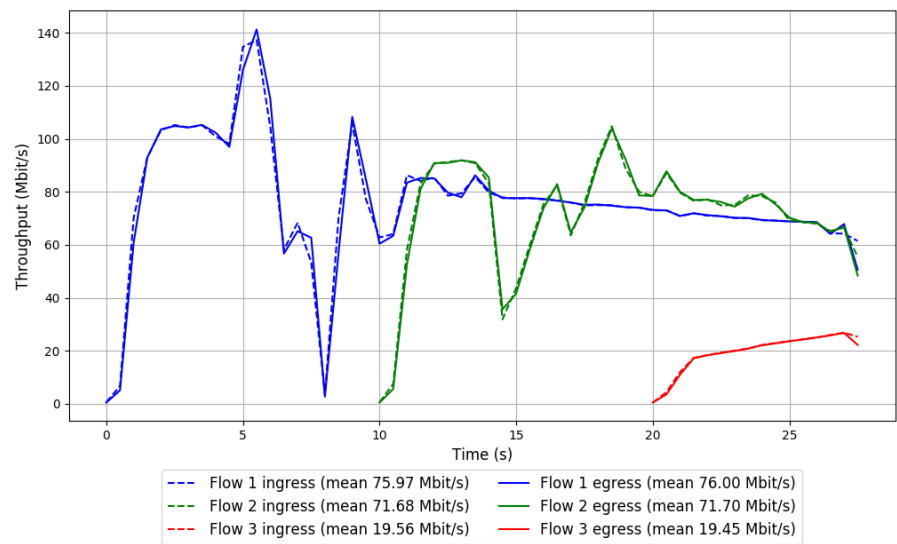
-- Flow 3:

Average throughput: 19.45 Mbit/s

95th percentile per-packet one-way delay: 54.694 ms

Loss rate: 1.92%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

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

End at: 2017-12-01 04:00:37

Below is generated by plot.py at 2017-12-01 07:16:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 120.76 Mbit/s

95th percentile per-packet one-way delay: 53.708 ms

Loss rate: 0.60%

-- Flow 1:

Average throughput: 62.74 Mbit/s

95th percentile per-packet one-way delay: 53.716 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 74.83 Mbit/s

95th percentile per-packet one-way delay: 53.171 ms

Loss rate: 0.62%

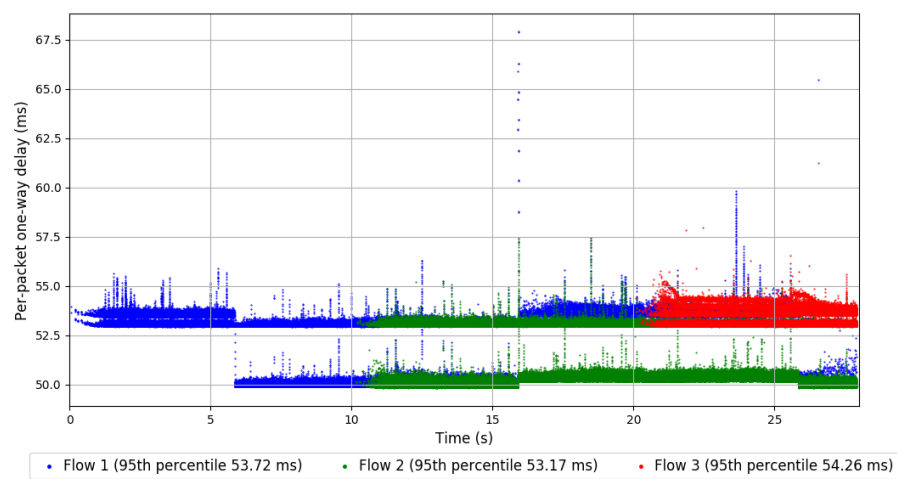
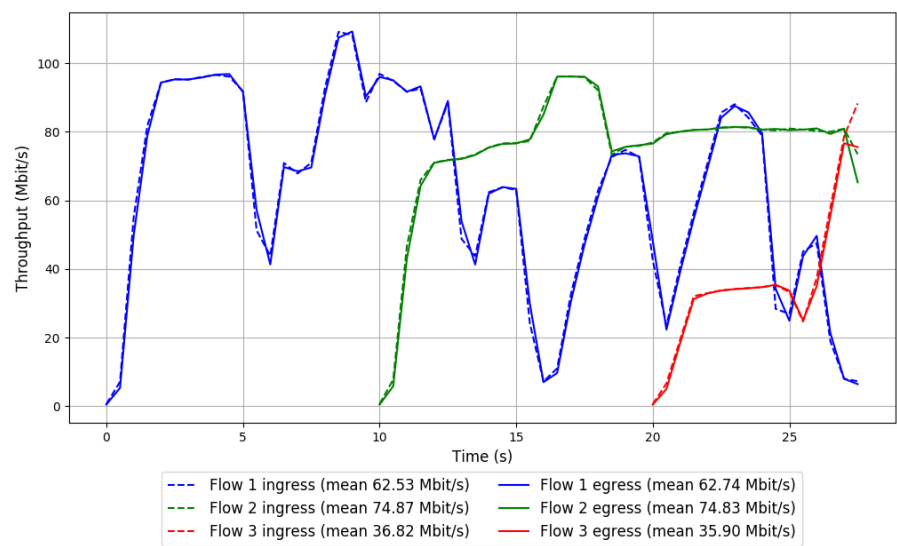
-- Flow 3:

Average throughput: 35.90 Mbit/s

95th percentile per-packet one-way delay: 54.261 ms

Loss rate: 3.81%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2017-12-01 04:12:35

End at: 2017-12-01 04:13:05

Below is generated by plot.py at 2017-12-01 07:17:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 129.64 Mbit/s

95th percentile per-packet one-way delay: 53.826 ms

Loss rate: 0.56%

-- Flow 1:

Average throughput: 80.36 Mbit/s

95th percentile per-packet one-way delay: 53.676 ms

Loss rate: 0.36%

-- Flow 2:

Average throughput: 61.06 Mbit/s

95th percentile per-packet one-way delay: 53.884 ms

Loss rate: 0.55%

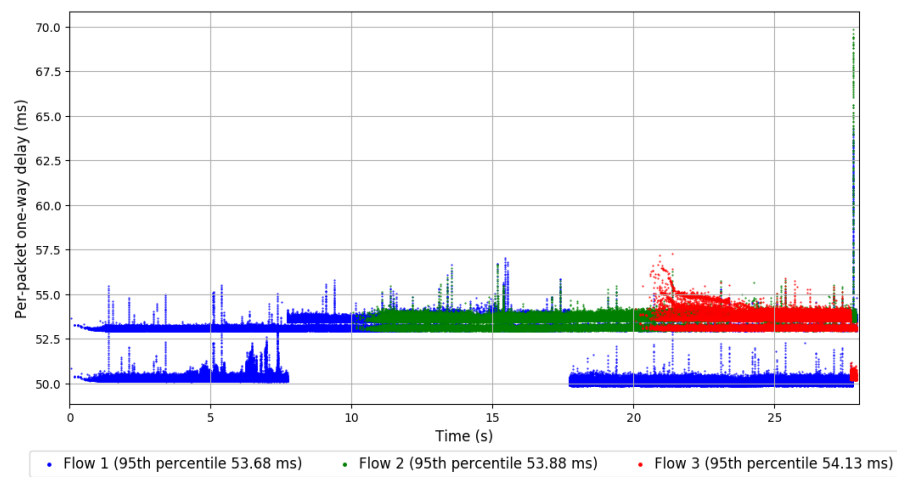
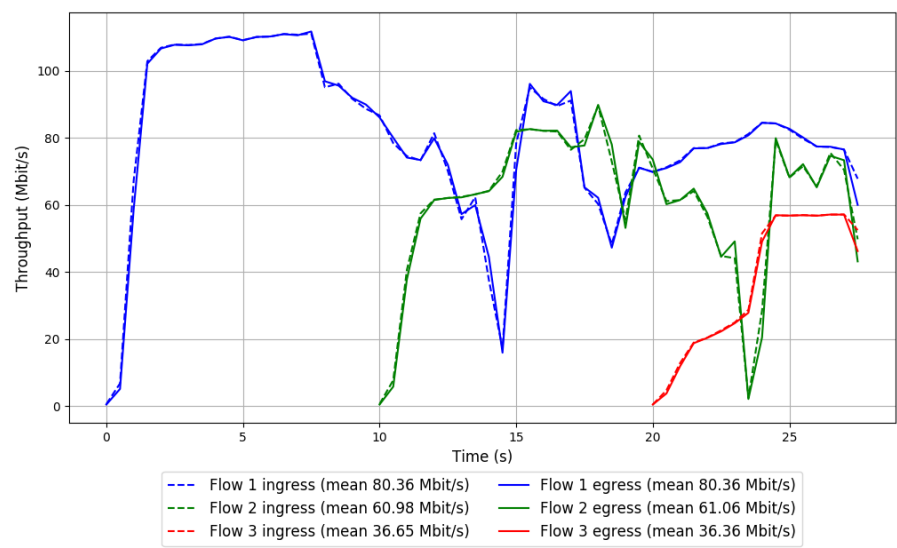
-- Flow 3:

Average throughput: 36.36 Mbit/s

95th percentile per-packet one-way delay: 54.131 ms

Loss rate: 2.14%

Run 10: Report of Copa — Data Link

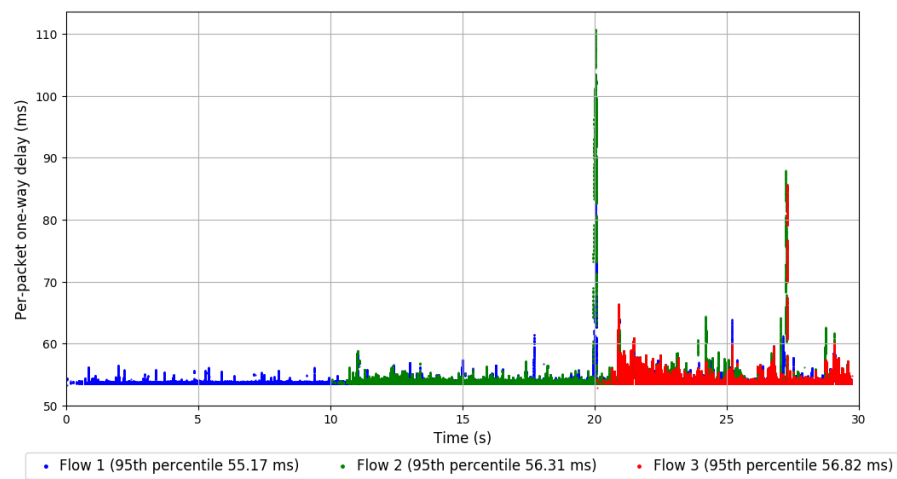
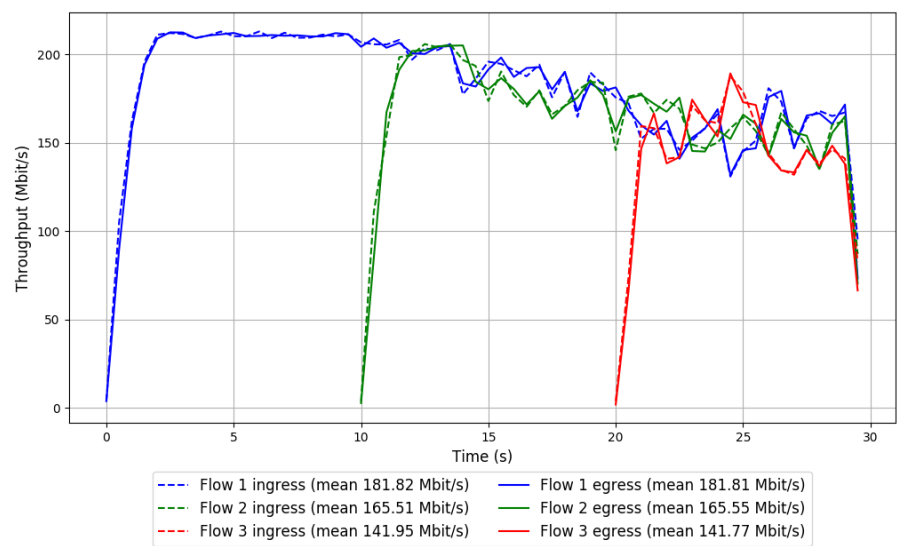


```
Run 1: Statistics of Indigo

Start at: 2017-12-01 02:24:13
End at: 2017-12-01 02:24:43

# Below is generated by plot.py at 2017-12-01 07:18:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 337.52 Mbit/s
95th percentile per-packet one-way delay: 55.893 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 181.81 Mbit/s
95th percentile per-packet one-way delay: 55.167 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 165.55 Mbit/s
95th percentile per-packet one-way delay: 56.315 ms
Loss rate: 0.51%
-- Flow 3:
Average throughput: 141.77 Mbit/s
95th percentile per-packet one-way delay: 56.824 ms
Loss rate: 1.19%
```


Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2017-12-01 02:36:23

End at: 2017-12-01 02:36:53

Below is generated by plot.py at 2017-12-01 07:19:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 346.36 Mbit/s

95th percentile per-packet one-way delay: 56.839 ms

Loss rate: 0.44%

-- Flow 1:

Average throughput: 184.39 Mbit/s

95th percentile per-packet one-way delay: 55.618 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 172.32 Mbit/s

95th percentile per-packet one-way delay: 56.970 ms

Loss rate: 0.40%

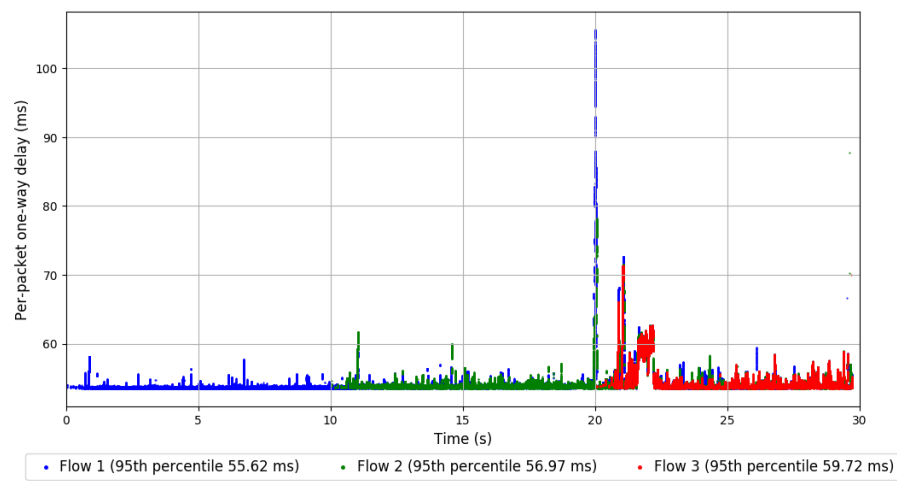
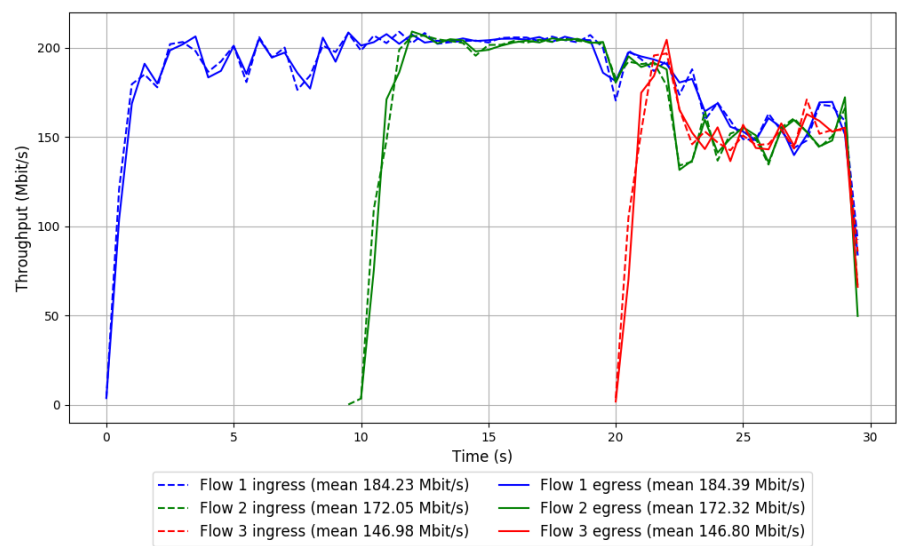
-- Flow 3:

Average throughput: 146.80 Mbit/s

95th percentile per-packet one-way delay: 59.721 ms

Loss rate: 1.19%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2017-12-01 02:48:27

End at: 2017-12-01 02:48:57

Below is generated by plot.py at 2017-12-01 07:21:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 330.64 Mbit/s

95th percentile per-packet one-way delay: 54.460 ms

Loss rate: 0.50%

-- Flow 1:

Average throughput: 176.55 Mbit/s

95th percentile per-packet one-way delay: 54.174 ms

Loss rate: 0.35%

-- Flow 2:

Average throughput: 163.84 Mbit/s

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

Loss rate: 0.42%

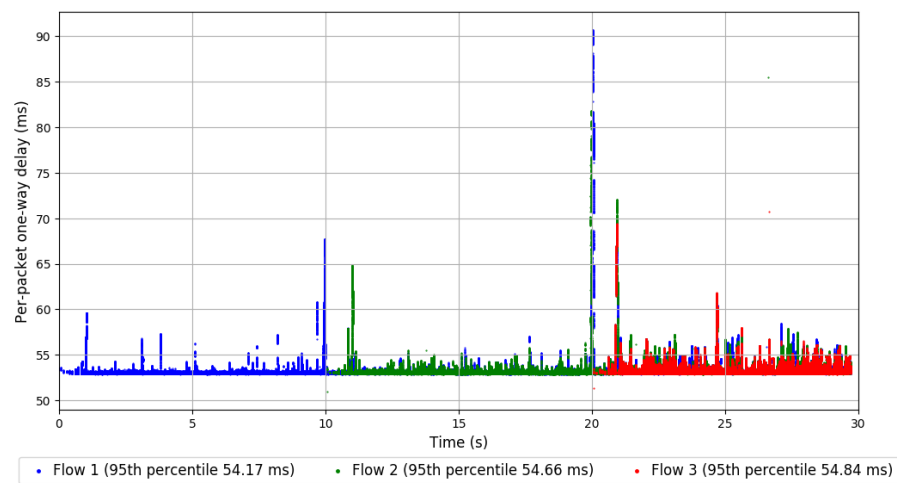
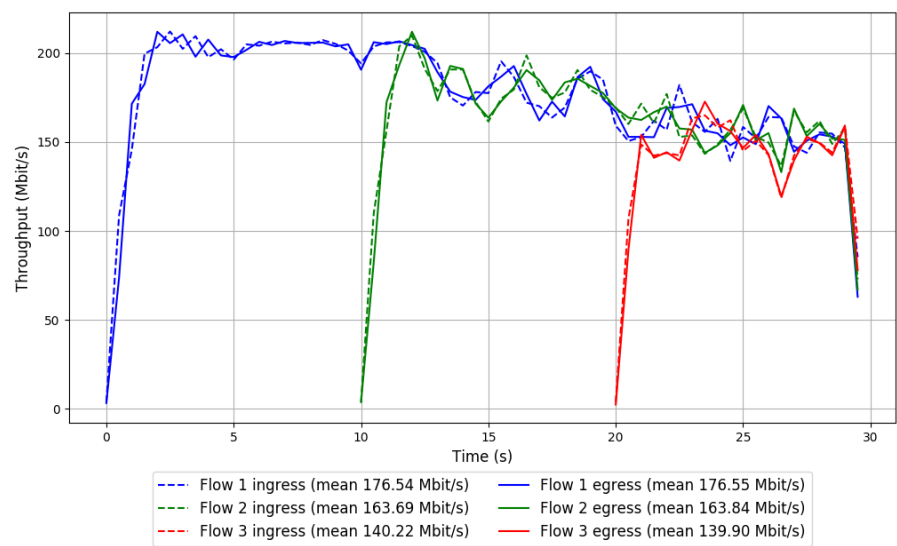
-- Flow 3:

Average throughput: 139.90 Mbit/s

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

Loss rate: 1.27%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2017-12-01 03:00:50

End at: 2017-12-01 03:01:20

Below is generated by plot.py at 2017-12-01 07:21:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 325.58 Mbit/s

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

Loss rate: 0.48%

-- Flow 1:

Average throughput: 171.26 Mbit/s

95th percentile per-packet one-way delay: 53.703 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 163.79 Mbit/s

95th percentile per-packet one-way delay: 54.033 ms

Loss rate: 0.52%

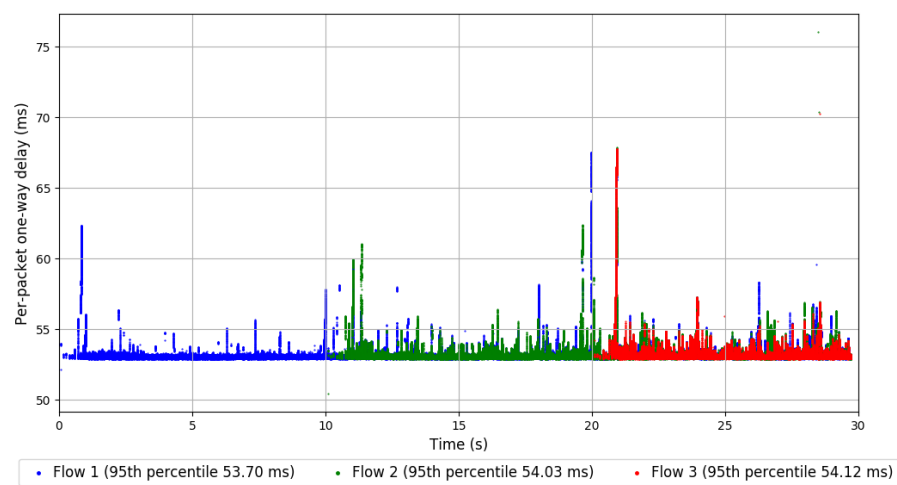
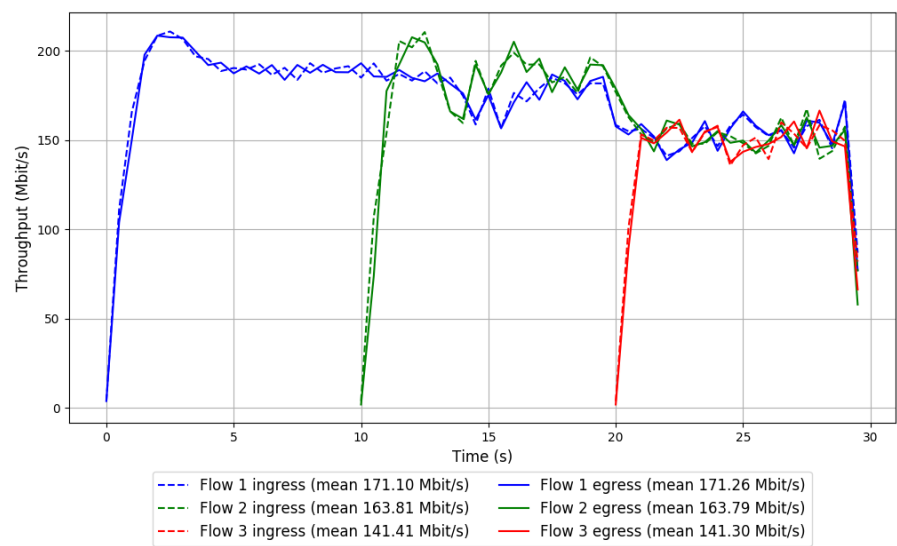
-- Flow 3:

Average throughput: 141.30 Mbit/s

95th percentile per-packet one-way delay: 54.115 ms

Loss rate: 1.17%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2017-12-01 03:13:12

End at: 2017-12-01 03:13:42

Below is generated by plot.py at 2017-12-01 07:21:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 321.02 Mbit/s

95th percentile per-packet one-way delay: 54.746 ms

Loss rate: 0.49%

-- Flow 1:

Average throughput: 171.49 Mbit/s

95th percentile per-packet one-way delay: 54.311 ms

Loss rate: 0.28%

-- Flow 2:

Average throughput: 161.18 Mbit/s

95th percentile per-packet one-way delay: 55.453 ms

Loss rate: 0.57%

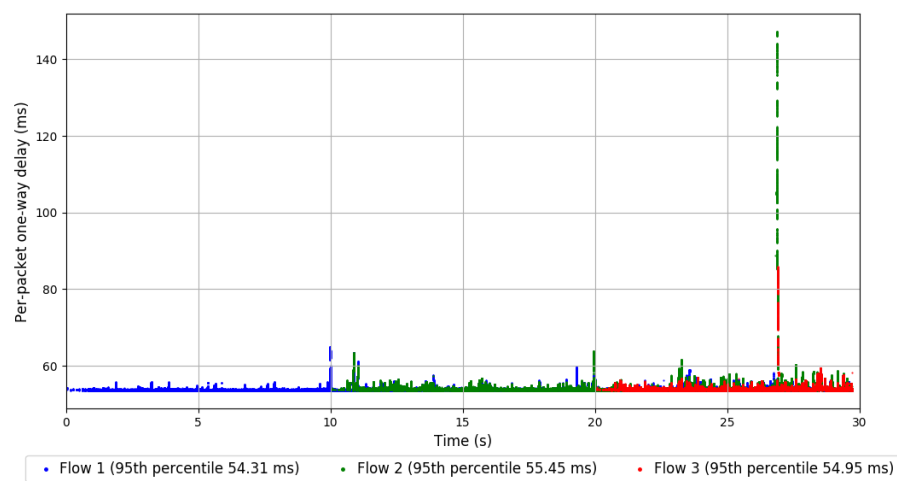
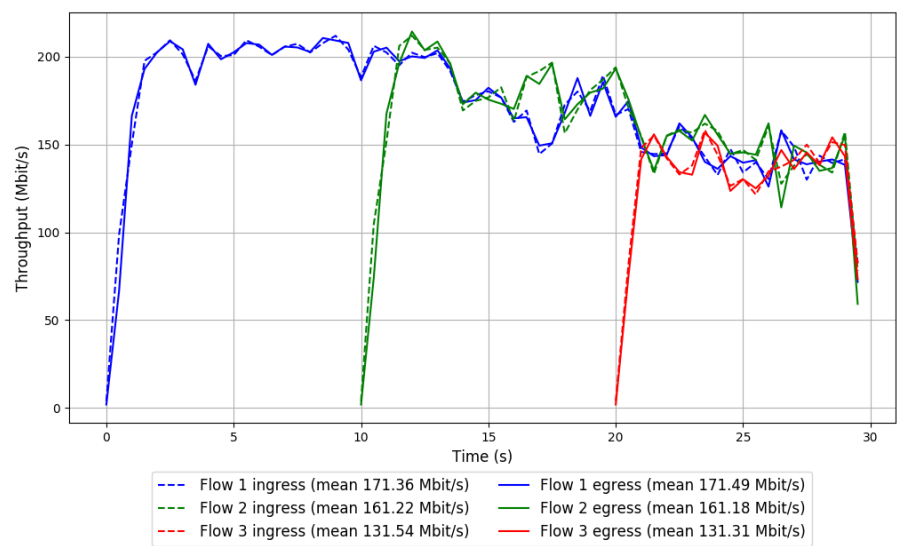
-- Flow 3:

Average throughput: 131.31 Mbit/s

95th percentile per-packet one-way delay: 54.949 ms

Loss rate: 1.16%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2017-12-01 03:25:21

End at: 2017-12-01 03:25:51

Below is generated by plot.py at 2017-12-01 07:22:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 322.77 Mbit/s

95th percentile per-packet one-way delay: 56.777 ms

Loss rate: 0.53%

-- Flow 1:

Average throughput: 167.83 Mbit/s

95th percentile per-packet one-way delay: 56.016 ms

Loss rate: 0.31%

-- Flow 2:

Average throughput: 161.07 Mbit/s

95th percentile per-packet one-way delay: 57.099 ms

Loss rate: 0.60%

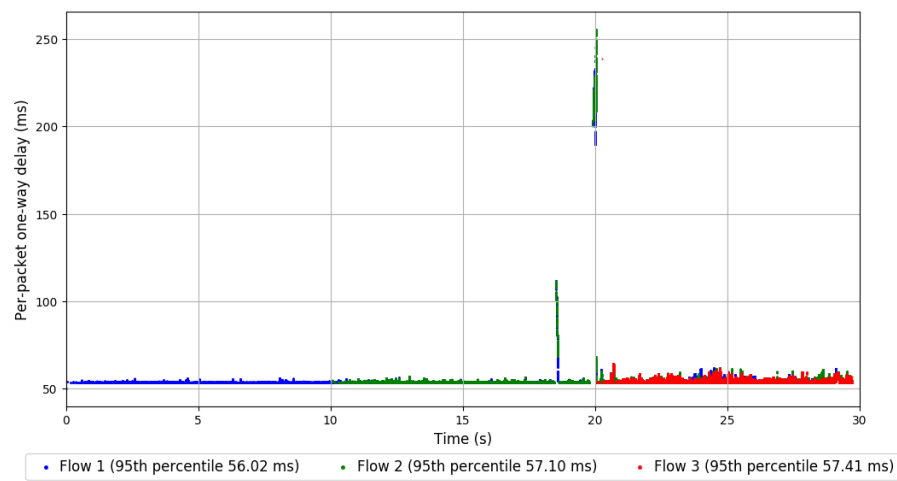
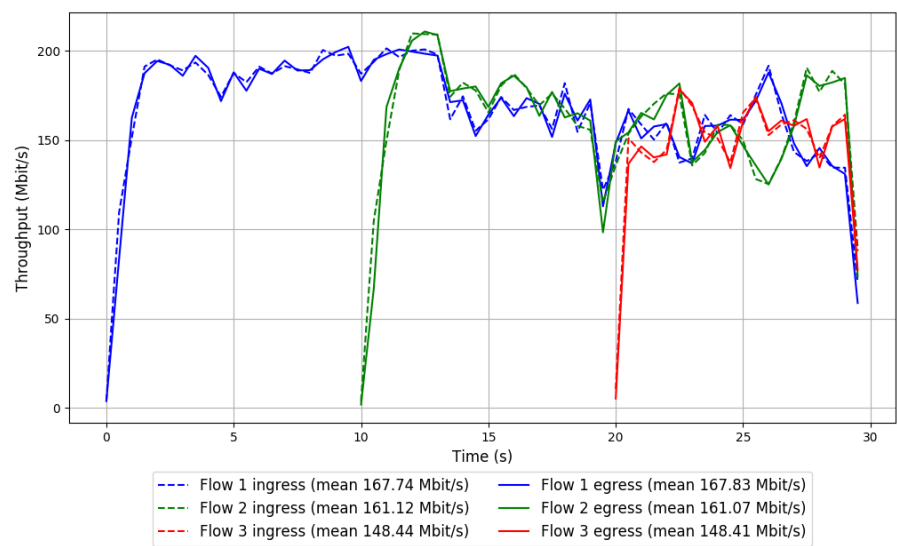
-- Flow 3:

Average throughput: 148.41 Mbit/s

95th percentile per-packet one-way delay: 57.412 ms

Loss rate: 1.12%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2017-12-01 03:37:36

End at: 2017-12-01 03:38:06

Below is generated by plot.py at 2017-12-01 07:22:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 326.85 Mbit/s

95th percentile per-packet one-way delay: 54.959 ms

Loss rate: 0.49%

-- Flow 1:

Average throughput: 175.76 Mbit/s

95th percentile per-packet one-way delay: 54.623 ms

Loss rate: 0.37%

-- Flow 2:

Average throughput: 161.22 Mbit/s

95th percentile per-packet one-way delay: 55.326 ms

Loss rate: 0.45%

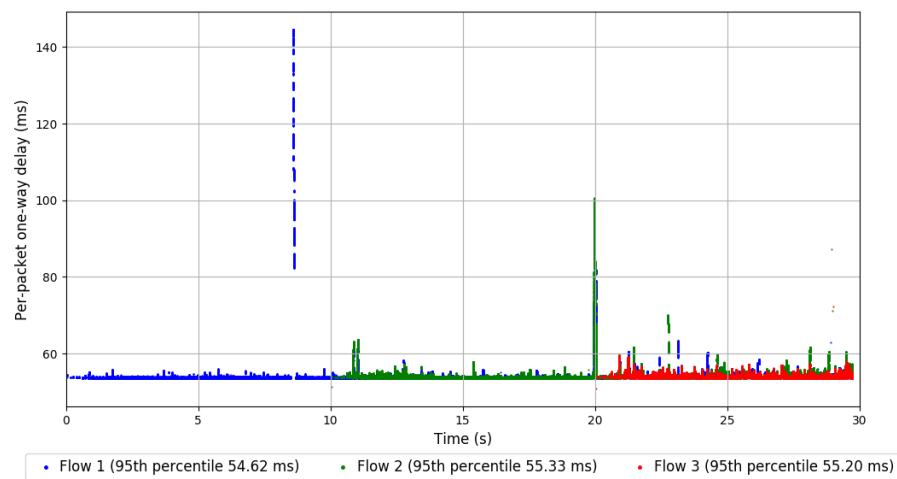
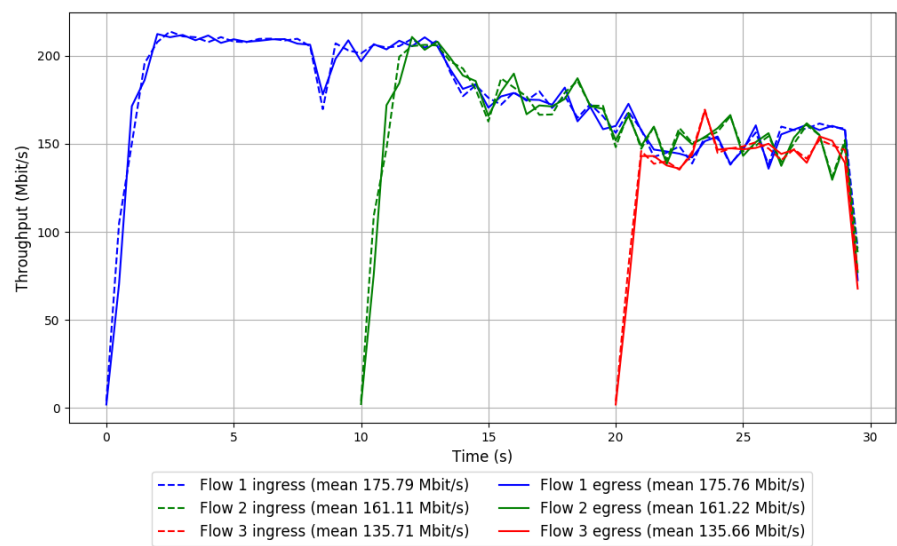
-- Flow 3:

Average throughput: 135.66 Mbit/s

95th percentile per-packet one-way delay: 55.199 ms

Loss rate: 1.07%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2017-12-01 03:49:42

End at: 2017-12-01 03:50:12

Below is generated by plot.py at 2017-12-01 07:22:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 328.45 Mbit/s

95th percentile per-packet one-way delay: 54.316 ms

Loss rate: 0.54%

-- Flow 1:

Average throughput: 178.02 Mbit/s

95th percentile per-packet one-way delay: 54.034 ms

Loss rate: 0.35%

-- Flow 2:

Average throughput: 160.21 Mbit/s

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

Loss rate: 0.52%

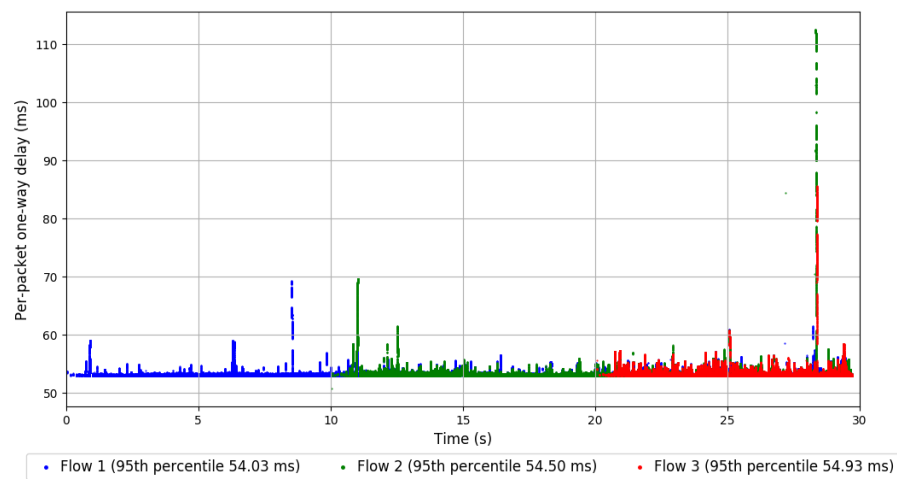
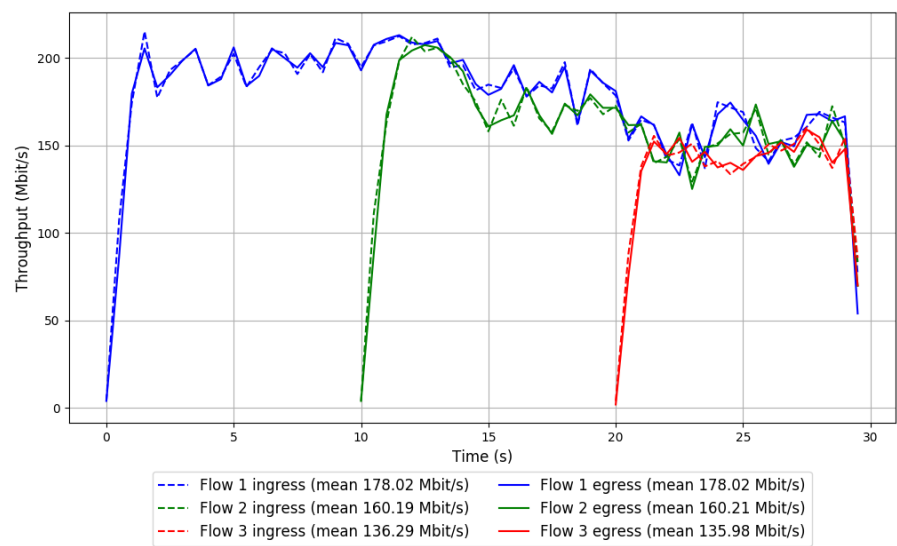
-- Flow 3:

Average throughput: 135.98 Mbit/s

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

Loss rate: 1.32%

Run 8: Report of Indigo — Data Link

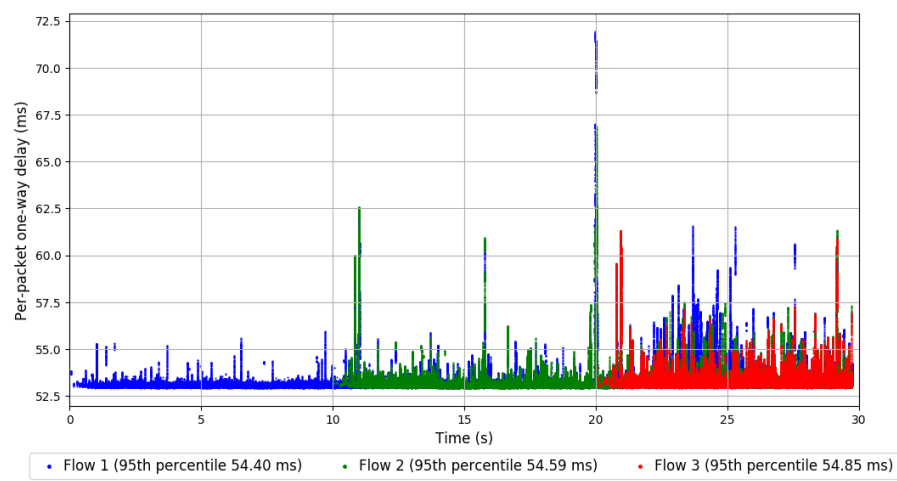
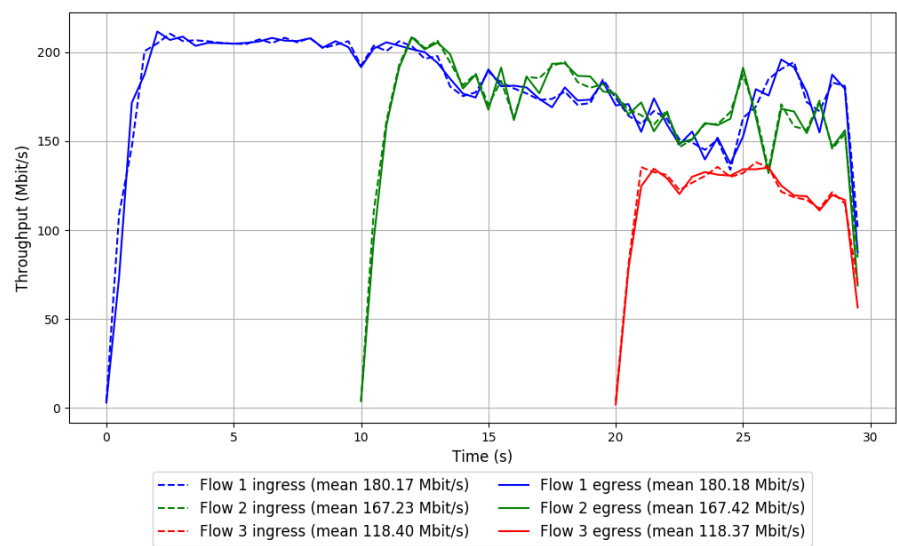


```
Run 9: Statistics of Indigo

Start at: 2017-12-01 04:01:52
End at: 2017-12-01 04:02:22

# Below is generated by plot.py at 2017-12-01 07:25:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 329.62 Mbit/s
95th percentile per-packet one-way delay: 54.533 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 180.18 Mbit/s
95th percentile per-packet one-way delay: 54.398 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 167.42 Mbit/s
95th percentile per-packet one-way delay: 54.586 ms
Loss rate: 0.45%
-- Flow 3:
Average throughput: 118.37 Mbit/s
95th percentile per-packet one-way delay: 54.852 ms
Loss rate: 1.08%
```


Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2017-12-01 04:14:13

End at: 2017-12-01 04:14:43

Below is generated by plot.py at 2017-12-01 07:25:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 311.16 Mbit/s

95th percentile per-packet one-way delay: 54.026 ms

Loss rate: 0.43%

-- Flow 1:

Average throughput: 174.68 Mbit/s

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

Loss rate: 0.30%

-- Flow 2:

Average throughput: 166.12 Mbit/s

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

Loss rate: 0.45%

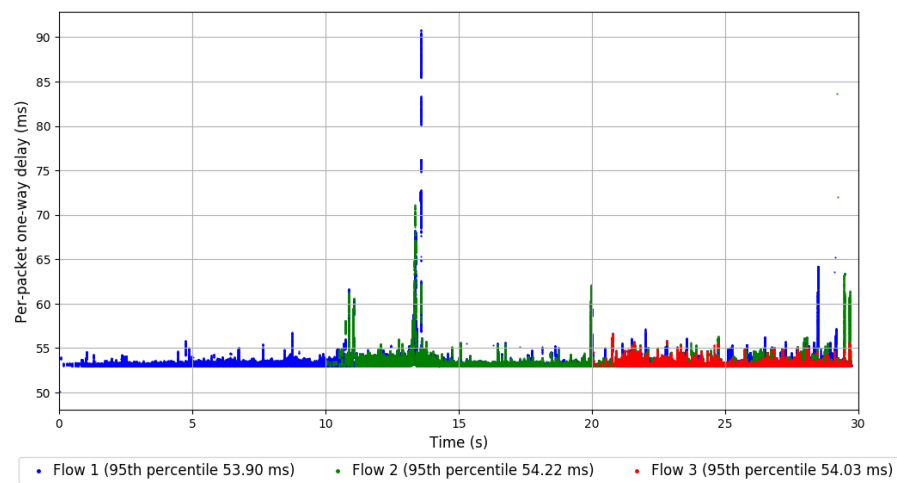
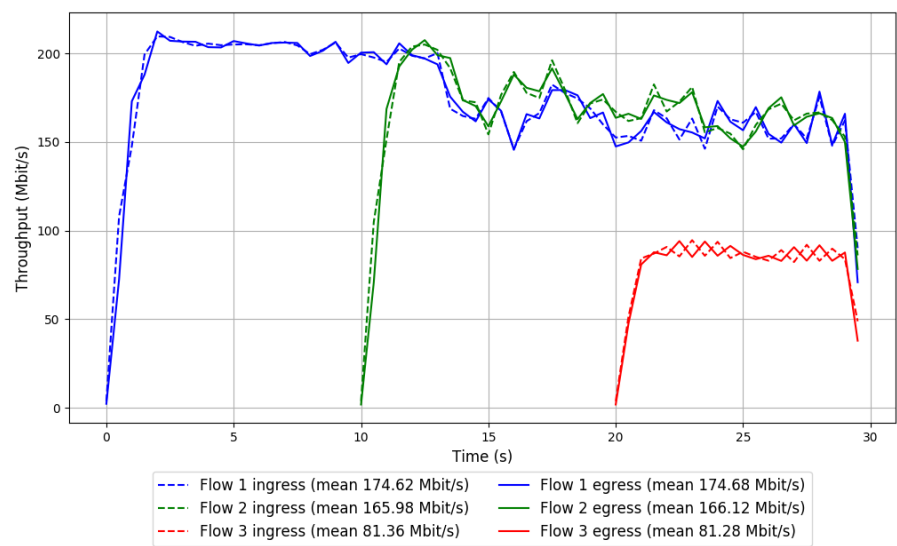
-- Flow 3:

Average throughput: 81.28 Mbit/s

95th percentile per-packet one-way delay: 54.031 ms

Loss rate: 1.21%

Run 10: Report of Indigo — Data Link

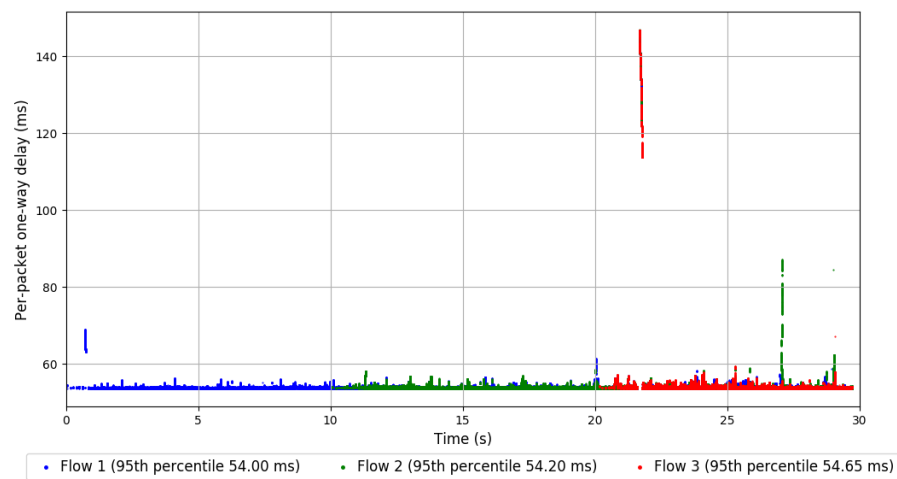
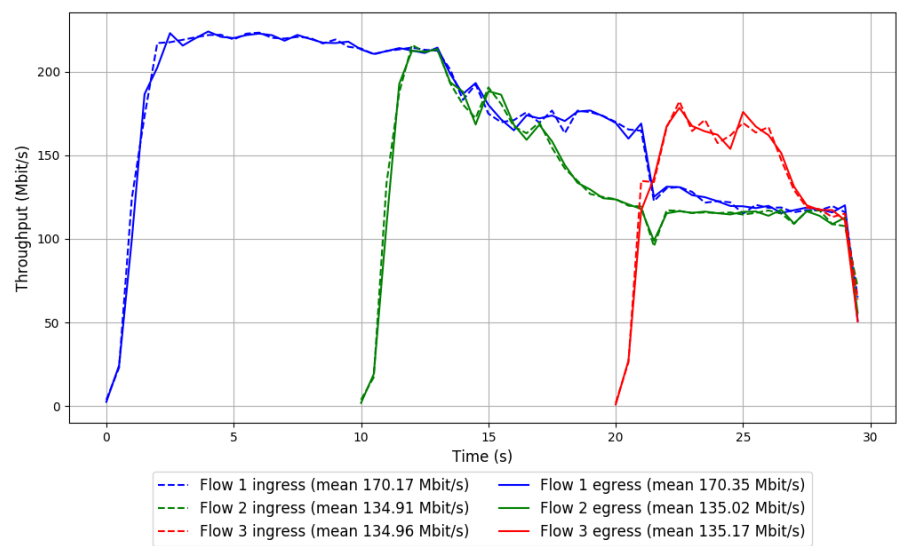


```
Run 1: Statistics of Indigo-calib

Start at: 2017-12-01 02:26:18
End at: 2017-12-01 02:26:48

# Below is generated by plot.py at 2017-12-01 07:26:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 303.11 Mbit/s
95th percentile per-packet one-way delay: 54.160 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 170.35 Mbit/s
95th percentile per-packet one-way delay: 54.004 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 135.02 Mbit/s
95th percentile per-packet one-way delay: 54.196 ms
Loss rate: 0.47%
-- Flow 3:
Average throughput: 135.17 Mbit/s
95th percentile per-packet one-way delay: 54.654 ms
Loss rate: 1.00%
```

Run 1: Report of Indigo-calib — Data Link

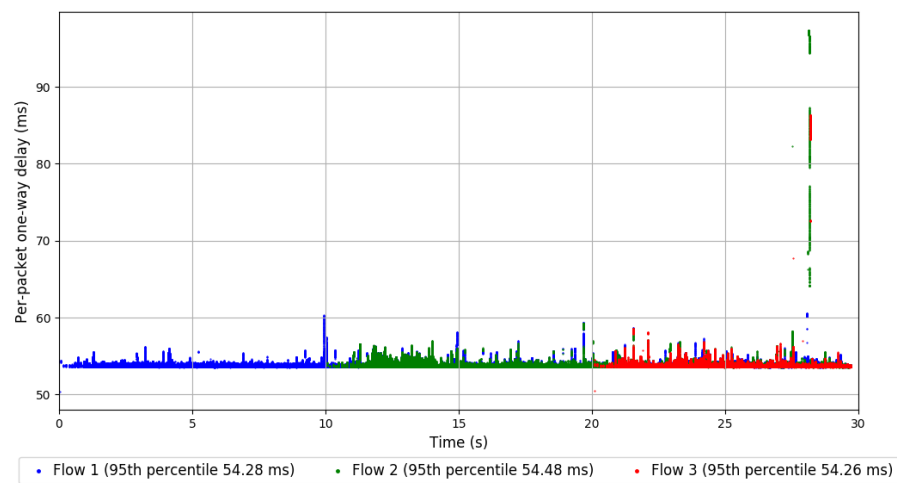
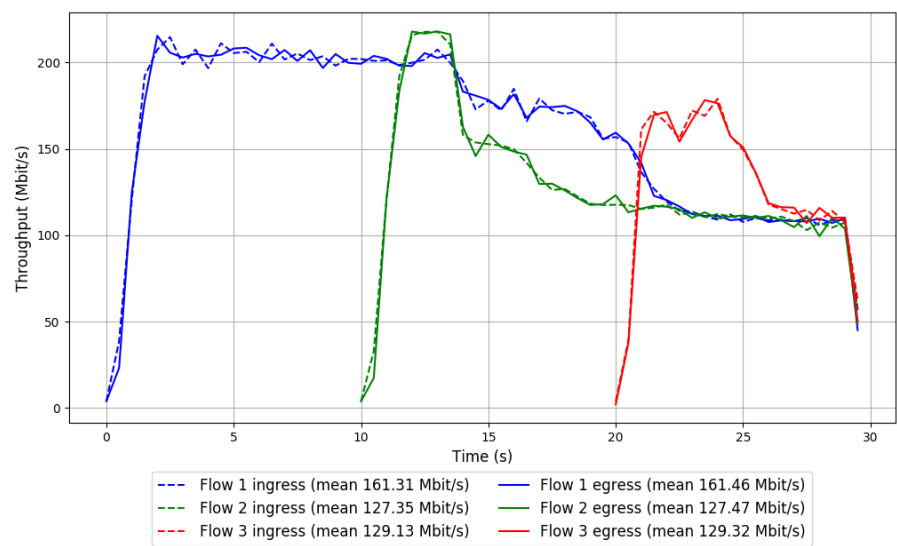


```
Run 2: Statistics of Indigo-calib

Start at: 2017-12-01 02:38:31
End at: 2017-12-01 02:39:01

# Below is generated by plot.py at 2017-12-01 07:26:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 287.87 Mbit/s
95th percentile per-packet one-way delay: 54.338 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 161.46 Mbit/s
95th percentile per-packet one-way delay: 54.278 ms
Loss rate: 0.24%
-- Flow 2:
Average throughput: 127.47 Mbit/s
95th percentile per-packet one-way delay: 54.478 ms
Loss rate: 0.44%
-- Flow 3:
Average throughput: 129.32 Mbit/s
95th percentile per-packet one-way delay: 54.255 ms
Loss rate: 0.91%
```

Run 2: Report of Indigo-calib — Data Link



Run 3: Statistics of Indigo-calib

Start at: 2017-12-01 02:50:33

End at: 2017-12-01 02:51:03

Below is generated by plot.py at 2017-12-01 07:26:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 312.84 Mbit/s

95th percentile per-packet one-way delay: 53.856 ms

Loss rate: 0.49%

-- Flow 1:

Average throughput: 176.48 Mbit/s

95th percentile per-packet one-way delay: 53.596 ms

Loss rate: 0.25%

-- Flow 2:

Average throughput: 135.21 Mbit/s

95th percentile per-packet one-way delay: 53.980 ms

Loss rate: 0.42%

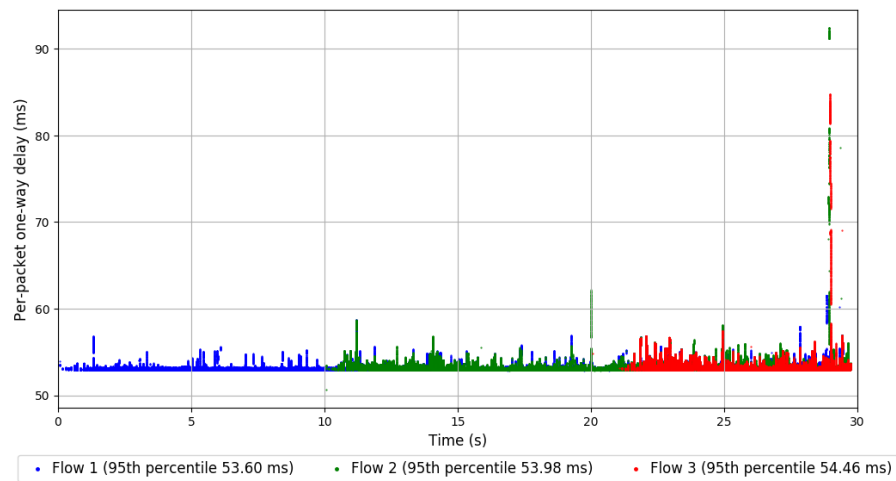
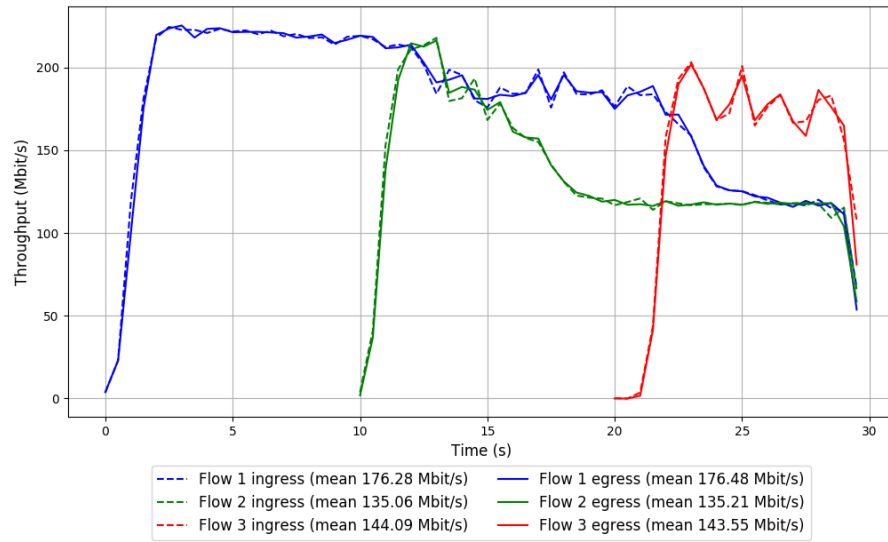
-- Flow 3:

Average throughput: 143.55 Mbit/s

95th percentile per-packet one-way delay: 54.457 ms

Loss rate: 1.50%

Run 3: Report of Indigo-calib — Data Link

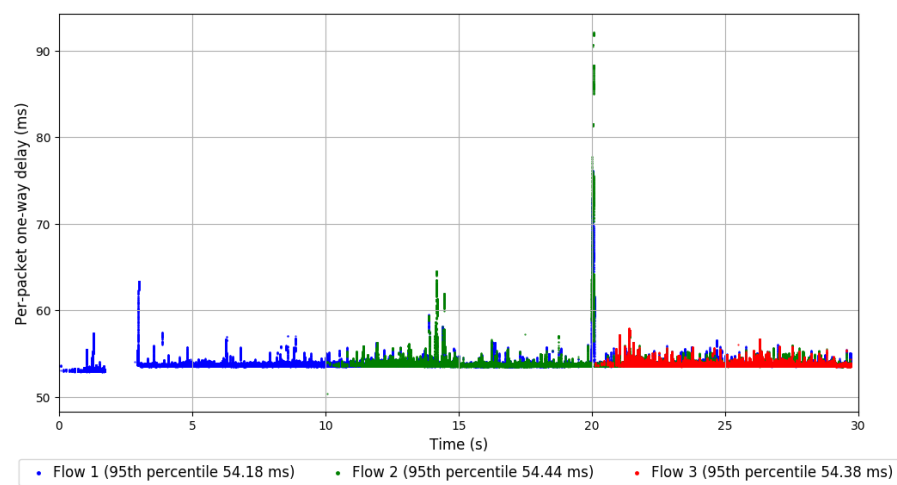
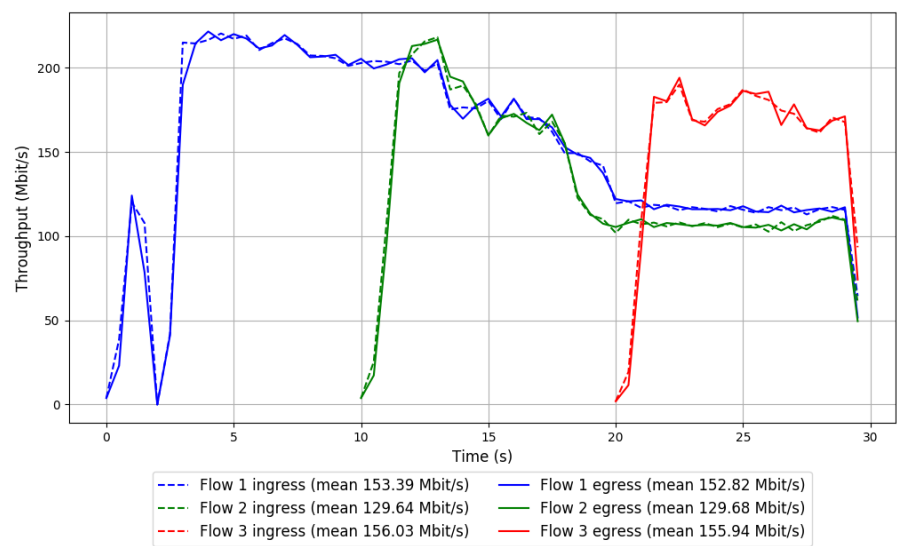


```
Run 4: Statistics of Indigo-calib

Start at: 2017-12-01 03:02:55
End at: 2017-12-01 03:03:25

# Below is generated by plot.py at 2017-12-01 07:27:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 289.15 Mbit/s
95th percentile per-packet one-way delay: 54.301 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 152.82 Mbit/s
95th percentile per-packet one-way delay: 54.182 ms
Loss rate: 0.72%
-- Flow 2:
Average throughput: 129.68 Mbit/s
95th percentile per-packet one-way delay: 54.438 ms
Loss rate: 0.47%
-- Flow 3:
Average throughput: 155.94 Mbit/s
95th percentile per-packet one-way delay: 54.385 ms
Loss rate: 1.13%
```

Run 4: Report of Indigo-calib — Data Link



Run 5: Statistics of Indigo-calib

Start at: 2017-12-01 03:15:17

End at: 2017-12-01 03:15:47

Below is generated by plot.py at 2017-12-01 07:27:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 306.33 Mbit/s

95th percentile per-packet one-way delay: 54.432 ms

Loss rate: 0.40%

-- Flow 1:

Average throughput: 165.78 Mbit/s

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

Loss rate: 0.25%

-- Flow 2:

Average throughput: 148.09 Mbit/s

95th percentile per-packet one-way delay: 54.538 ms

Loss rate: 0.43%

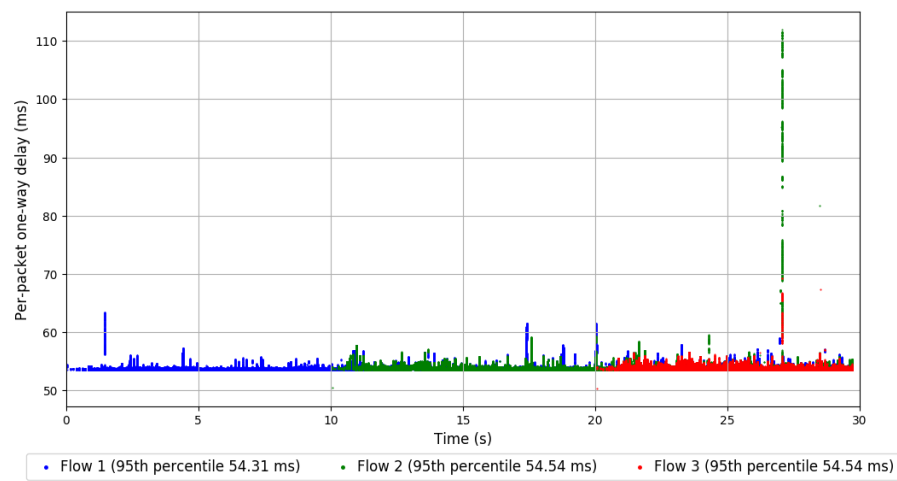
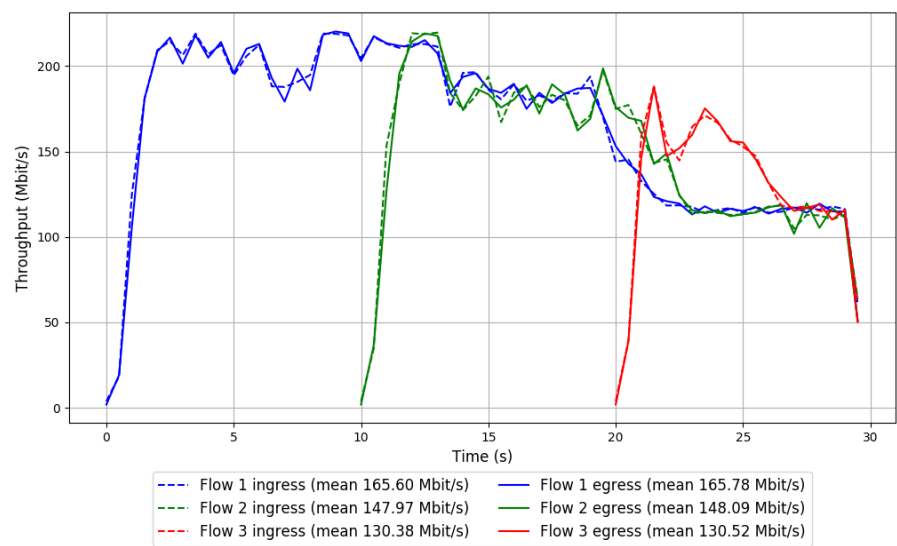
-- Flow 3:

Average throughput: 130.52 Mbit/s

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

Loss rate: 0.94%

Run 5: Report of Indigo-calib — Data Link

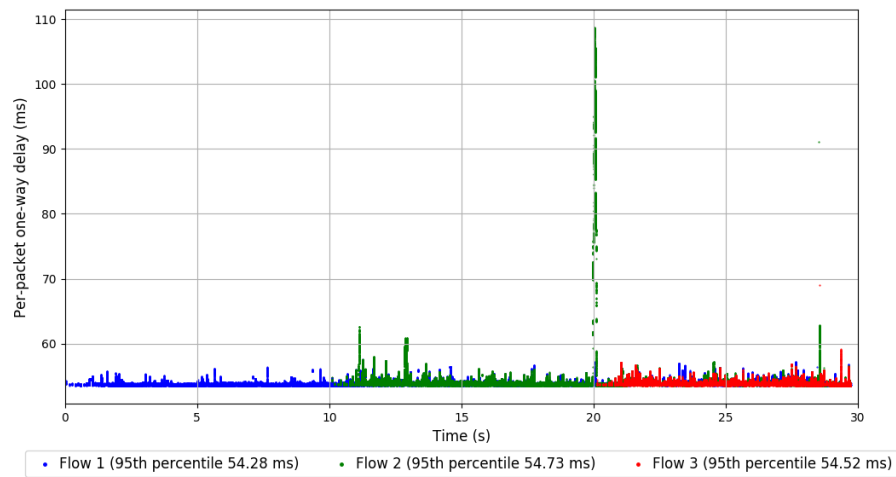
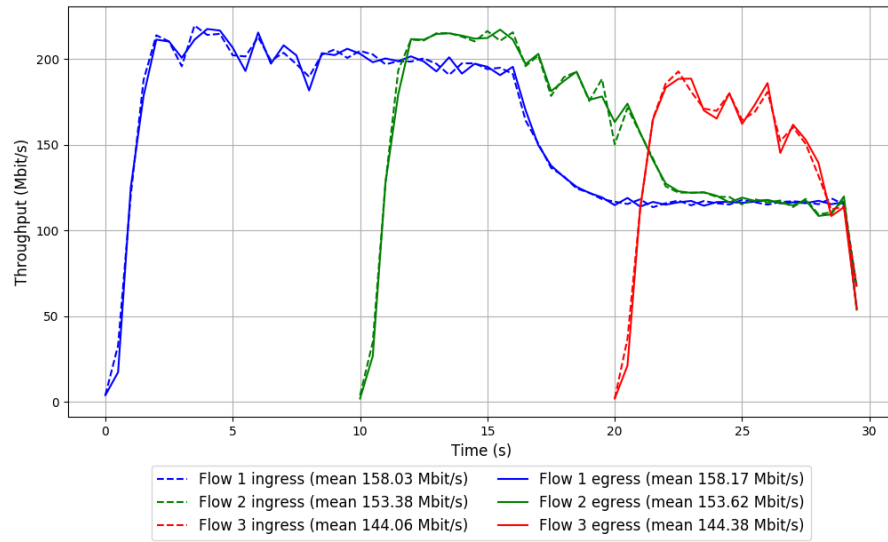


```
Run 6: Statistics of Indigo-calib

Start at: 2017-12-01 03:27:26
End at: 2017-12-01 03:27:56

# Below is generated by plot.py at 2017-12-01 07:27:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 306.45 Mbit/s
95th percentile per-packet one-way delay: 54.449 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 158.17 Mbit/s
95th percentile per-packet one-way delay: 54.283 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 153.62 Mbit/s
95th percentile per-packet one-way delay: 54.733 ms
Loss rate: 0.42%
-- Flow 3:
Average throughput: 144.38 Mbit/s
95th percentile per-packet one-way delay: 54.522 ms
Loss rate: 0.90%
```

Run 6: Report of Indigo-calib — Data Link



Run 7: Statistics of Indigo-calib

Start at: 2017-12-01 03:39:40

End at: 2017-12-01 03:40:10

Below is generated by plot.py at 2017-12-01 07:28:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 289.11 Mbit/s

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

Loss rate: 0.40%

-- Flow 1:

Average throughput: 153.63 Mbit/s

95th percentile per-packet one-way delay: 54.233 ms

Loss rate: 0.23%

-- Flow 2:

Average throughput: 145.75 Mbit/s

95th percentile per-packet one-way delay: 54.606 ms

Loss rate: 0.42%

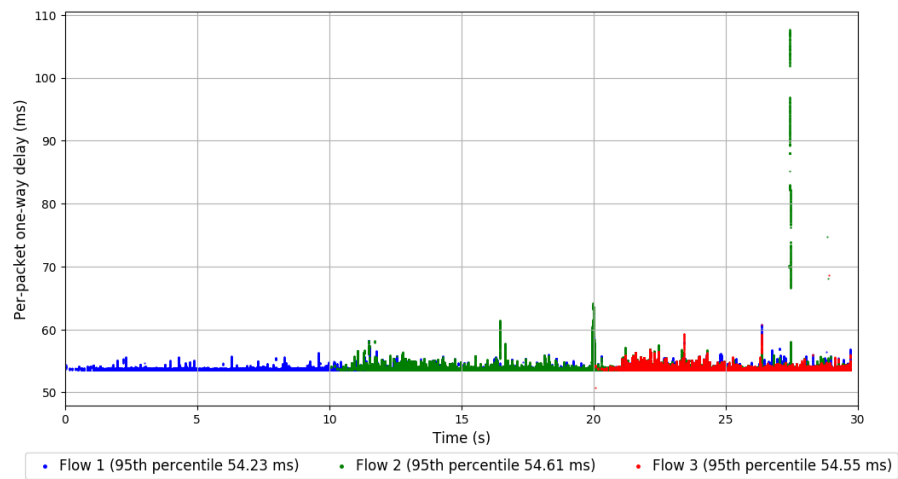
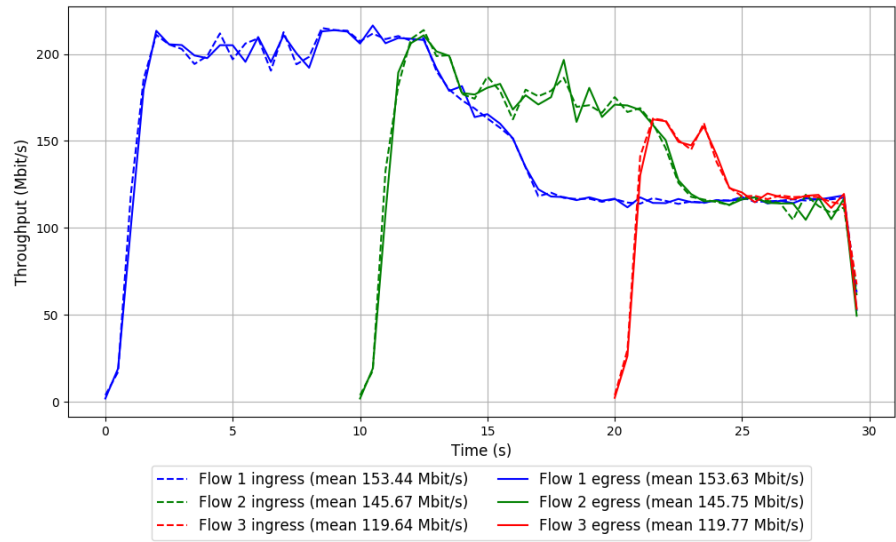
-- Flow 3:

Average throughput: 119.77 Mbit/s

95th percentile per-packet one-way delay: 54.553 ms

Loss rate: 0.99%

Run 7: Report of Indigo-calib — Data Link



Run 8: Statistics of Indigo-calib

Start at: 2017-12-01 03:51:45

End at: 2017-12-01 03:52:15

Below is generated by plot.py at 2017-12-01 07:28:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 312.36 Mbit/s

95th percentile per-packet one-way delay: 53.791 ms

Loss rate: 0.41%

-- Flow 1:

Average throughput: 165.94 Mbit/s

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

Loss rate: 0.25%

-- Flow 2:

Average throughput: 147.87 Mbit/s

95th percentile per-packet one-way delay: 53.958 ms

Loss rate: 0.41%

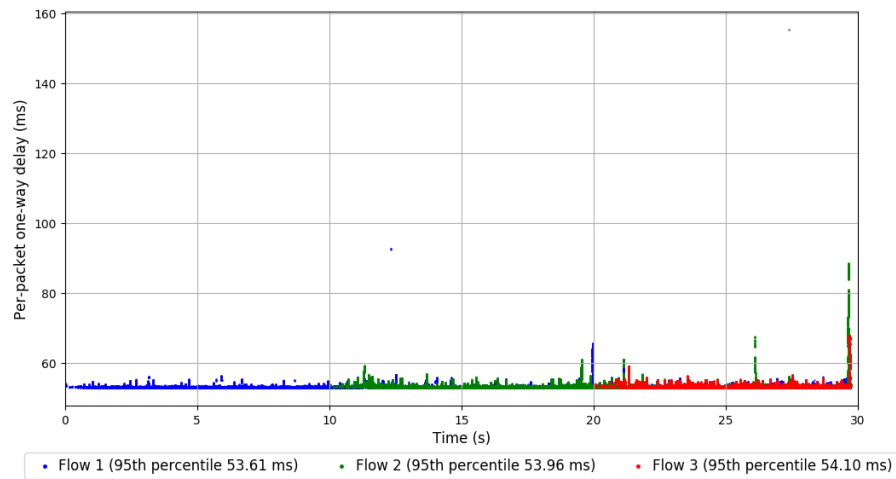
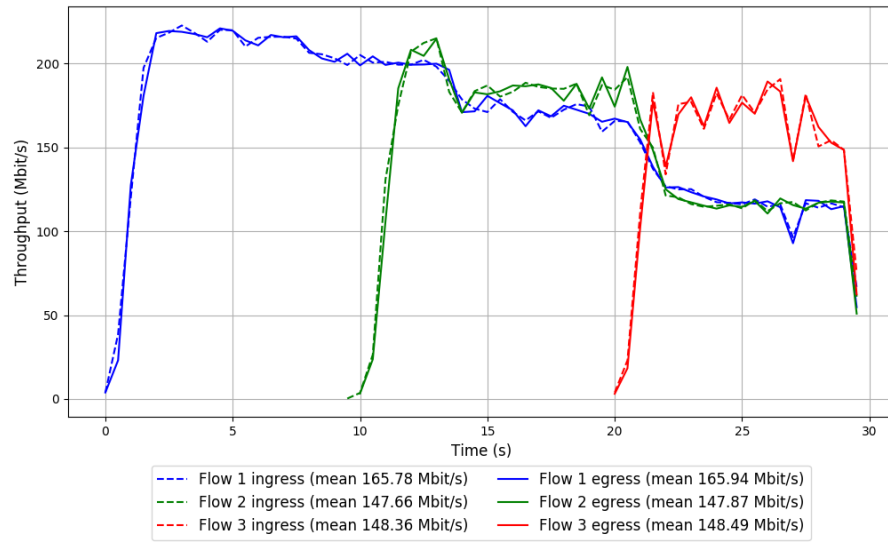
-- Flow 3:

Average throughput: 148.49 Mbit/s

95th percentile per-packet one-way delay: 54.104 ms

Loss rate: 0.96%

Run 8: Report of Indigo-calib — Data Link

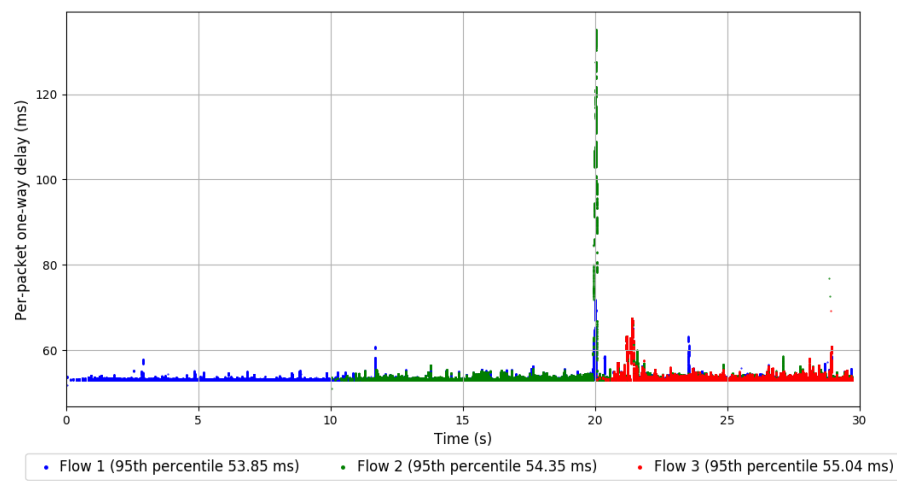
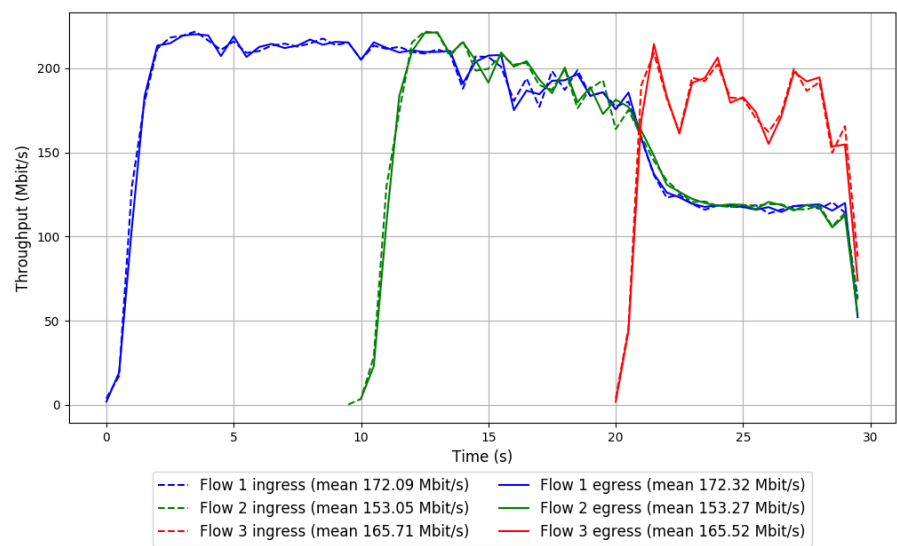


```
Run 9: Statistics of Indigo-calib

Start at: 2017-12-01 04:03:57
End at: 2017-12-01 04:04:27

# Below is generated by plot.py at 2017-12-01 07:28:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 327.80 Mbit/s
95th percentile per-packet one-way delay: 54.184 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 172.32 Mbit/s
95th percentile per-packet one-way delay: 53.853 ms
Loss rate: 0.20%
-- Flow 2:
Average throughput: 153.27 Mbit/s
95th percentile per-packet one-way delay: 54.350 ms
Loss rate: 0.37%
-- Flow 3:
Average throughput: 165.52 Mbit/s
95th percentile per-packet one-way delay: 55.037 ms
Loss rate: 1.18%
```

Run 9: Report of Indigo-calib — Data Link



Run 10: Statistics of Indigo-calib

Start at: 2017-12-01 04:16:18

End at: 2017-12-01 04:16:48

Below is generated by plot.py at 2017-12-01 07:28:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 283.97 Mbit/s

95th percentile per-packet one-way delay: 53.684 ms

Loss rate: 0.79%

-- Flow 1:

Average throughput: 155.94 Mbit/s

95th percentile per-packet one-way delay: 53.483 ms

Loss rate: 0.45%

-- Flow 2:

Average throughput: 133.77 Mbit/s

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

Loss rate: 0.76%

-- Flow 3:

Average throughput: 121.07 Mbit/s

95th percentile per-packet one-way delay: 54.414 ms

Loss rate: 2.20%

Run 10: Report of Indigo-calib — Data Link

