

Pantheon Report

Generated at 2017-12-12 11:33:00 (UTC).

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

Repeated the test of 14 congestion control schemes 10 times.

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

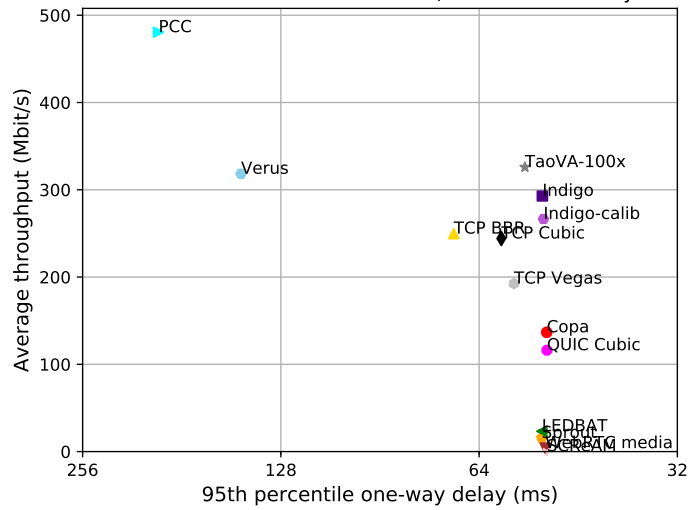
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

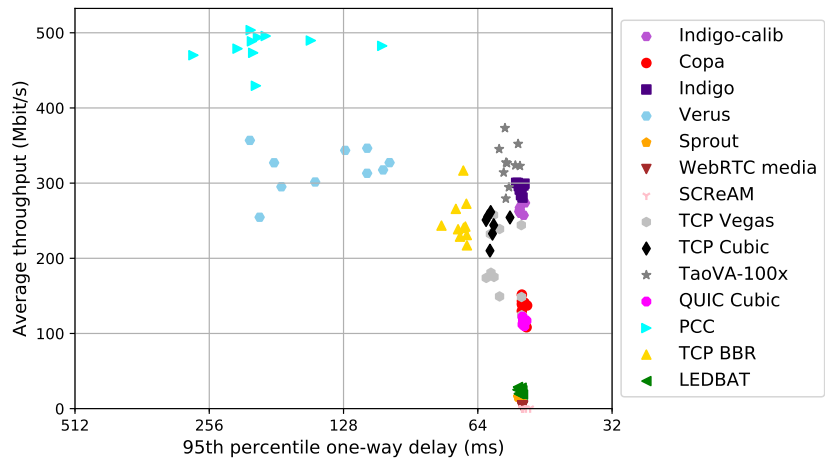
Git summary:

```
branch: indigos @ e3a57ad5ac5cfcaca0e3f983c8dd4cc3509e0262
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
M datagrump/sender.cc
third_party/genericCC @ b5b7c38e8391001927dc41c6cfa2627d03dde737
third_party/indigo @ b19f3730105f9aa95452552af924e3719b03cc55
third_party/indigo-cellular @ aee99e8eb842cb053f8c9a80e28cd256a930bbc2
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/indigo-no-cwnd @ 3e58442c04028a11d7b02456e137604633ba2d6c
third_party/indigo-no-delivery-rate @ 57caa40858b964906edff4876d5a7e5bfff666c5
third_party/indigo-no-queuing-delay @ 03455460fd1a8ffbdad86fab936fdca204b80db
third_party/indigo-no-send-rate @ b39dfa6b2c5f19cb7cd89626cb4f5bb81f9fecda
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ baf443516dea3eeddeccaf9b916cc313273ca4f4
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/proto-quick @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eaaeb30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/webRTC @ a488197ddd041ace68a42849b2540ad834825f42
```

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



test from GCE Iowa Ethernet to GCE London 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	124.00	125.70	127.43	68.37	70.01	73.27	0.03	0.05	0.00
TCP Cubic	7	146.25	120.30	53.92	58.62	58.04	54.96	0.00	0.08	0.06
LEDBAT	9	12.36	12.92	7.10	51.38	51.43	51.30	0.04	0.02	0.07
PCC	10	437.93	51.06	26.50	197.78	178.79	166.61	1.83	1.51	2.65
QUIC Cubic	10	61.86	56.37	51.85	50.14	50.17	49.90	0.00	0.00	0.00
SCReAM	10	0.22	0.22	0.22	49.97	50.02	50.22	0.01	0.00	0.00
WebRTC media	9	1.98	1.42	0.58	50.41	50.59	50.47	0.00	0.00	0.00
Sprout	10	7.90	7.81	7.56	51.50	51.39	51.32	0.07	0.07	0.01
TaoVA-100x	10	194.92	131.83	163.73	53.25	59.43	52.79	0.01	0.01	0.01
TCP Vegas	10	94.17	99.56	96.78	55.57	55.33	54.13	0.00	0.00	0.02
Verus	10	184.45	151.90	100.19	154.75	148.60	148.59	1.17	0.71	1.02
Copa	10	77.01	66.30	65.57	50.48	54.76	50.28	0.00	4.62	0.00
Indigo	10	162.08	145.56	107.00	51.01	51.64	51.68	0.00	0.01	0.00
Indigo-calib	7	138.94	126.14	110.48	51.04	51.13	51.21	0.01	0.00	0.00

Run 1: Statistics of TCP BBR

Start at: 2017-12-12 07:05:52

End at: 2017-12-12 07:06:22

Below is generated by plot.py at 2017-12-12 10:28:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 240.59 Mbit/s

95th percentile per-packet one-way delay: 68.842 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 122.19 Mbit/s

95th percentile per-packet one-way delay: 68.664 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 126.60 Mbit/s

95th percentile per-packet one-way delay: 69.171 ms

Loss rate: 0.00%

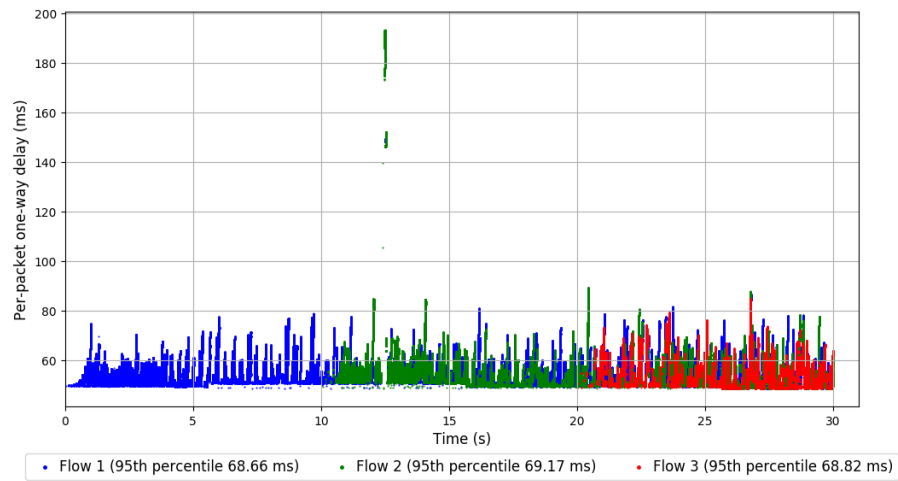
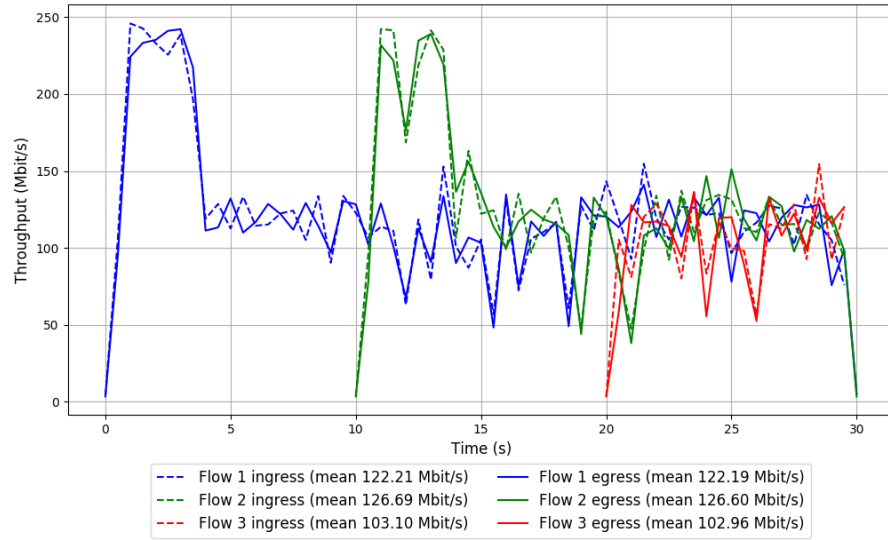
-- Flow 3:

Average throughput: 102.96 Mbit/s

95th percentile per-packet one-way delay: 68.824 ms

Loss rate: 0.01%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2017-12-12 07:17:58

End at: 2017-12-12 07:18:28

Below is generated by plot.py at 2017-12-12 10:28:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 242.27 Mbit/s

95th percentile per-packet one-way delay: 68.241 ms

Loss rate: 0.14%

-- Flow 1:

Average throughput: 112.61 Mbit/s

95th percentile per-packet one-way delay: 68.157 ms

Loss rate: 0.16%

-- Flow 2:

Average throughput: 144.39 Mbit/s

95th percentile per-packet one-way delay: 67.376 ms

Loss rate: 0.15%

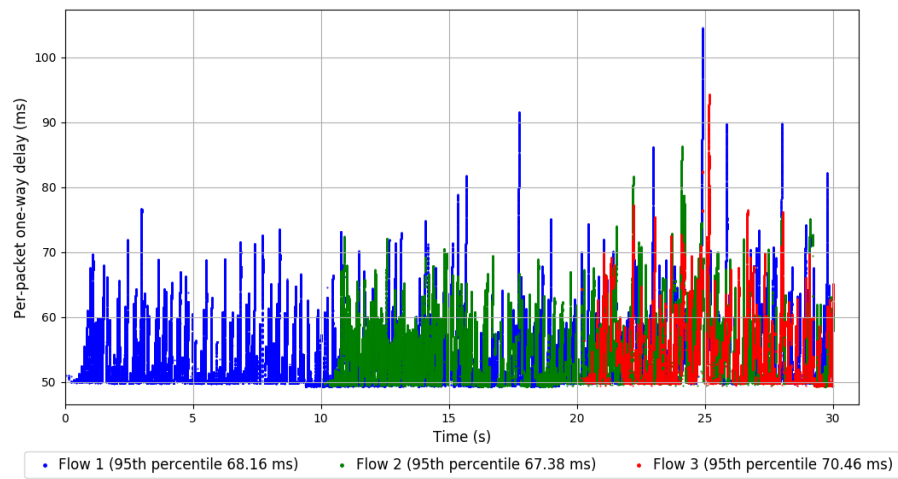
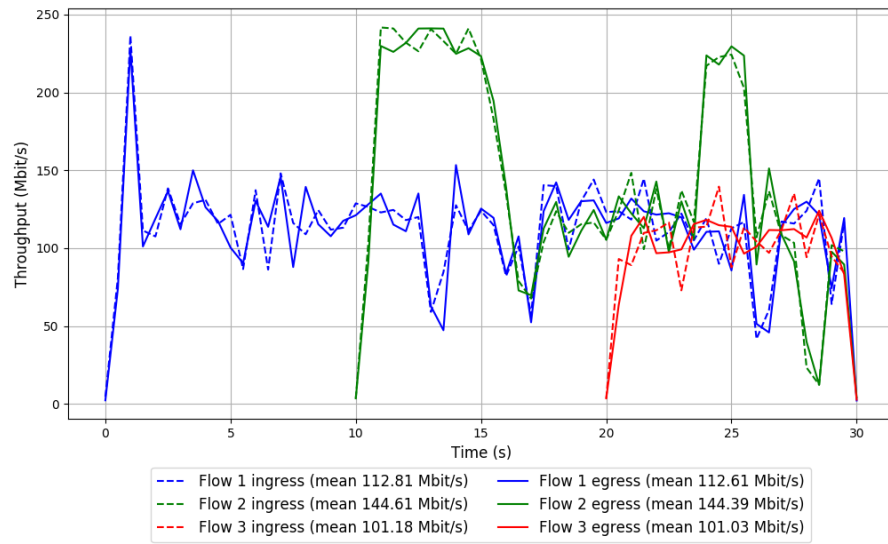
-- Flow 3:

Average throughput: 101.03 Mbit/s

95th percentile per-packet one-way delay: 70.463 ms

Loss rate: 0.00%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2017-12-12 07:29:57

End at: 2017-12-12 07:30:27

Below is generated by plot.py at 2017-12-12 10:28:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 230.95 Mbit/s

95th percentile per-packet one-way delay: 67.750 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 112.17 Mbit/s

95th percentile per-packet one-way delay: 66.810 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 122.35 Mbit/s

95th percentile per-packet one-way delay: 67.950 ms

Loss rate: 0.00%

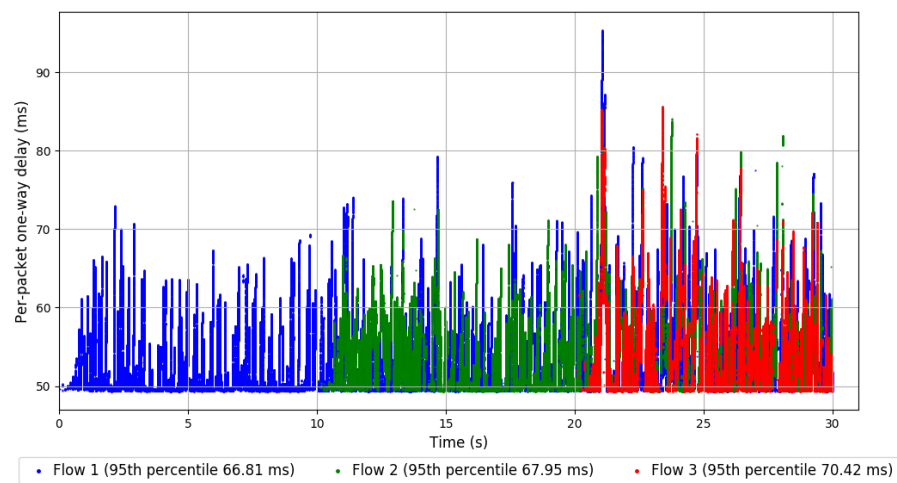
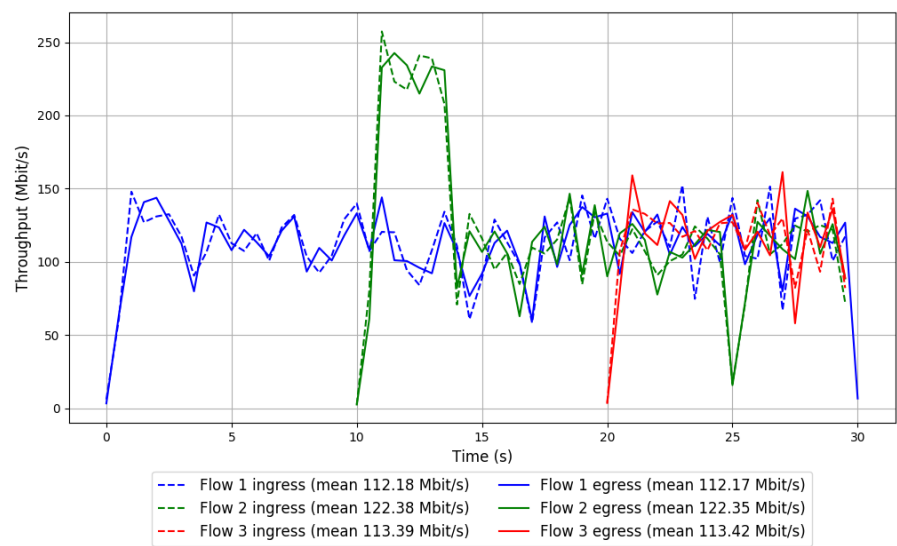
-- Flow 3:

Average throughput: 113.42 Mbit/s

95th percentile per-packet one-way delay: 70.416 ms

Loss rate: 0.00%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2017-12-12 07:42:08

End at: 2017-12-12 07:42:38

Below is generated by plot.py at 2017-12-12 10:28:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 217.25 Mbit/s

95th percentile per-packet one-way delay: 67.699 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 109.68 Mbit/s

95th percentile per-packet one-way delay: 66.413 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 110.70 Mbit/s

95th percentile per-packet one-way delay: 67.854 ms

Loss rate: 0.23%

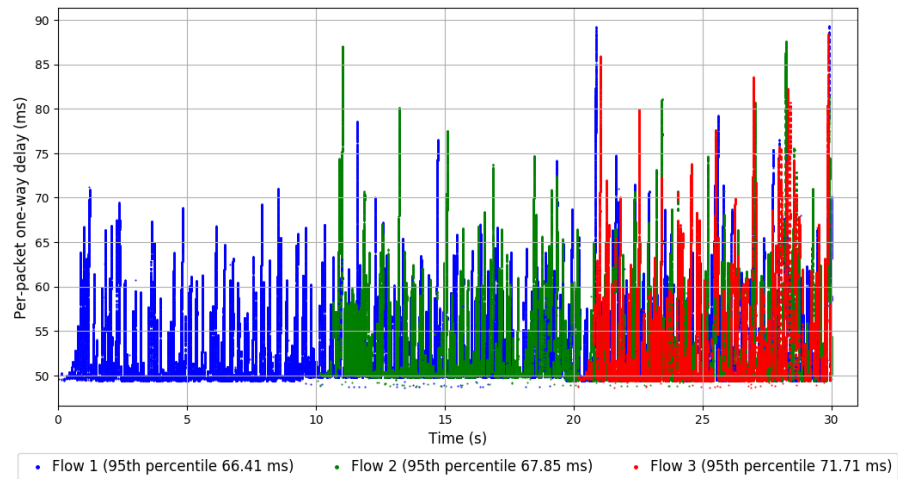
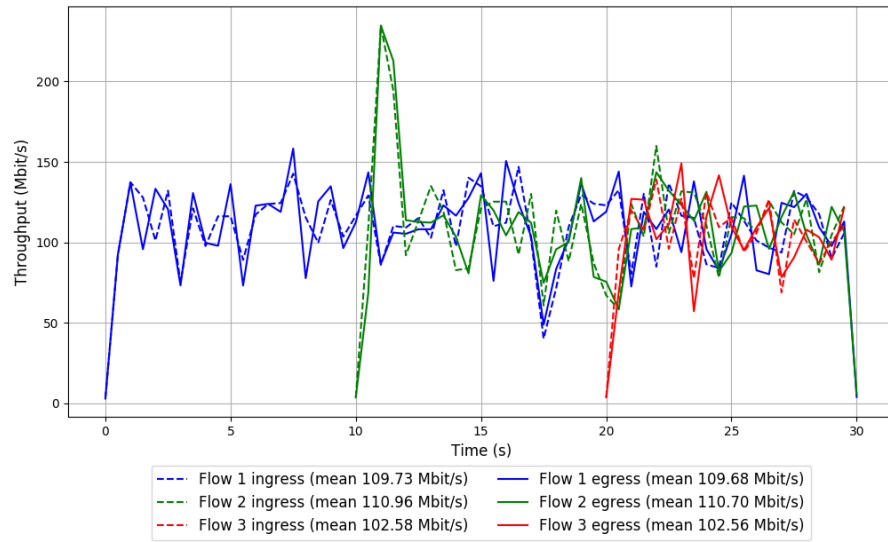
-- Flow 3:

Average throughput: 102.56 Mbit/s

95th percentile per-packet one-way delay: 71.709 ms

Loss rate: 0.00%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2017-12-12 07:54:14

End at: 2017-12-12 07:54:45

Below is generated by plot.py at 2017-12-12 10:28:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 228.84 Mbit/s

95th percentile per-packet one-way delay: 70.163 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 107.01 Mbit/s

95th percentile per-packet one-way delay: 69.206 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 125.56 Mbit/s

95th percentile per-packet one-way delay: 70.974 ms

Loss rate: 0.05%

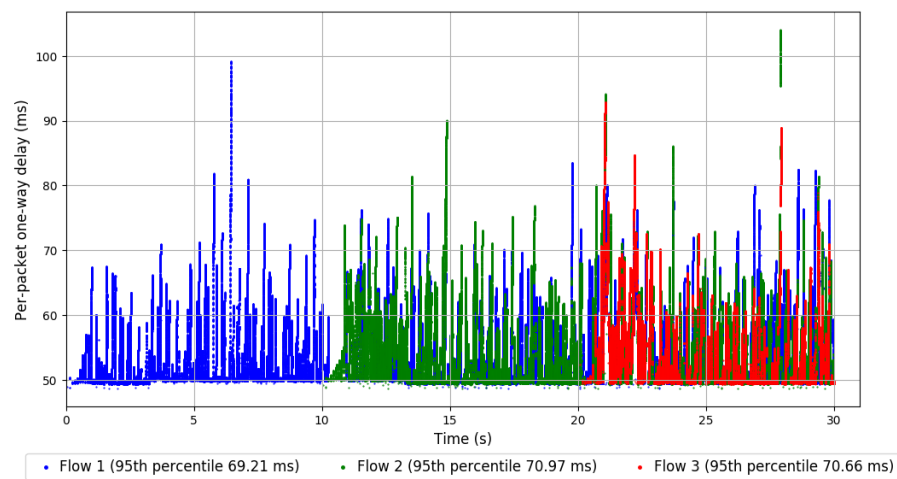
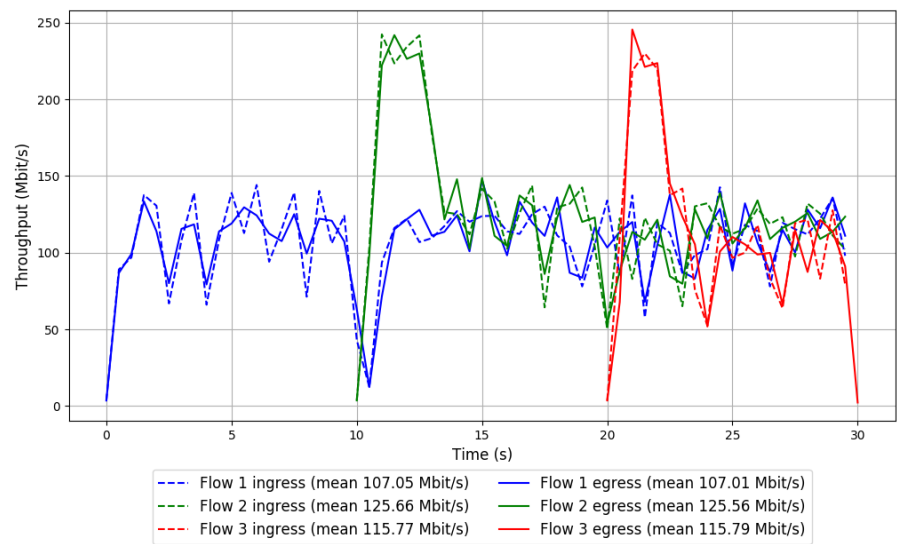
-- Flow 3:

Average throughput: 115.79 Mbit/s

95th percentile per-packet one-way delay: 70.659 ms

Loss rate: 0.01%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2017-12-12 08:06:21

End at: 2017-12-12 08:06:51

Below is generated by plot.py at 2017-12-12 10:28:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 238.72 Mbit/s

95th percentile per-packet one-way delay: 70.863 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 118.69 Mbit/s

95th percentile per-packet one-way delay: 68.451 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 124.51 Mbit/s

95th percentile per-packet one-way delay: 72.521 ms

Loss rate: 0.00%

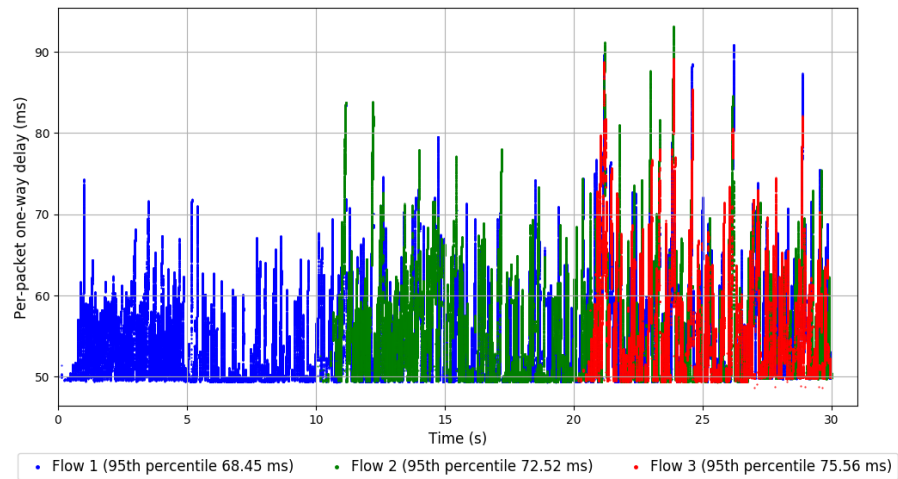
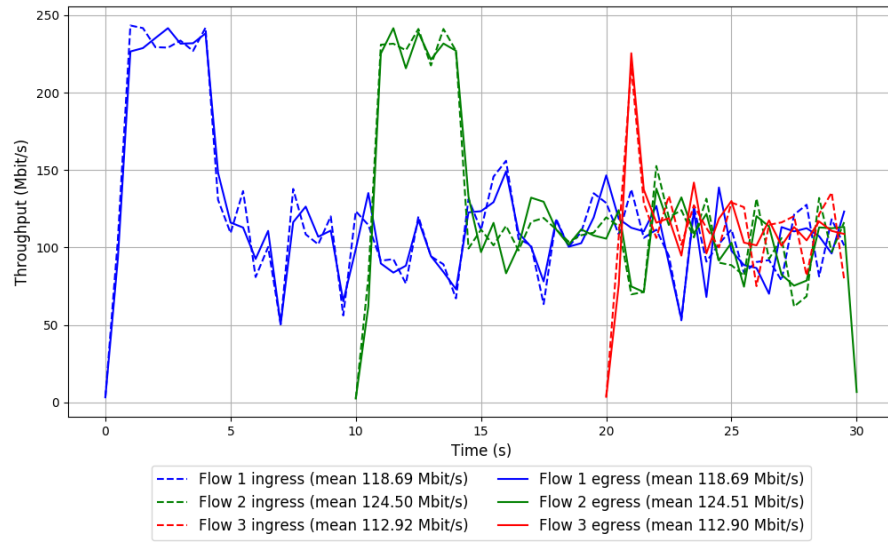
-- Flow 3:

Average throughput: 112.90 Mbit/s

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

Loss rate: 0.02%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2017-12-12 08:18:14

End at: 2017-12-12 08:18:44

Below is generated by plot.py at 2017-12-12 10:29:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 272.65 Mbit/s

95th percentile per-packet one-way delay: 67.887 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 135.97 Mbit/s

95th percentile per-packet one-way delay: 65.378 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 109.74 Mbit/s

95th percentile per-packet one-way delay: 68.419 ms

Loss rate: 0.00%

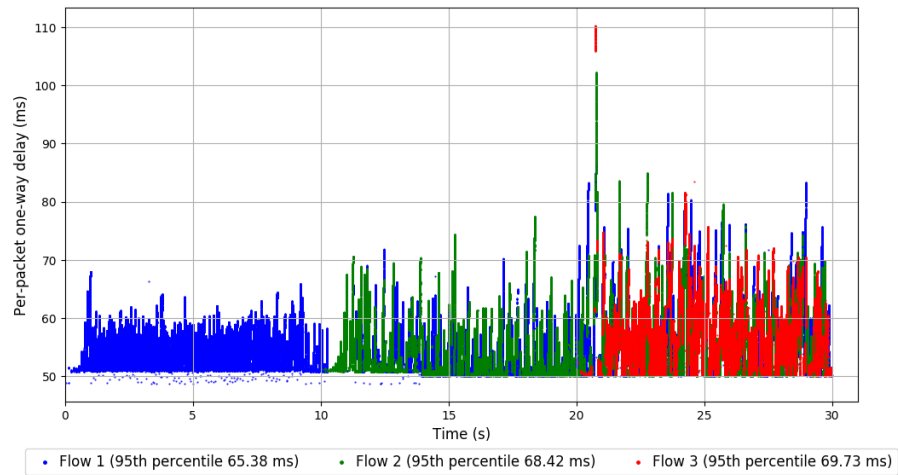
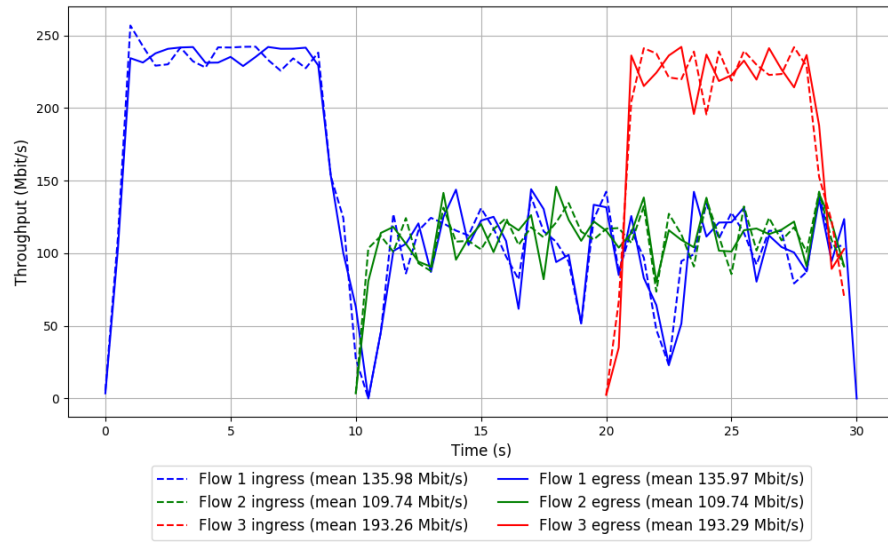
-- Flow 3:

Average throughput: 193.29 Mbit/s

95th percentile per-packet one-way delay: 69.729 ms

Loss rate: 0.00%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2017-12-12 08:30:29

End at: 2017-12-12 08:30:59

Below is generated by plot.py at 2017-12-12 10:29:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 243.54 Mbit/s

95th percentile per-packet one-way delay: 77.204 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 133.36 Mbit/s

95th percentile per-packet one-way delay: 75.774 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 104.74 Mbit/s

95th percentile per-packet one-way delay: 75.318 ms

Loss rate: 0.01%

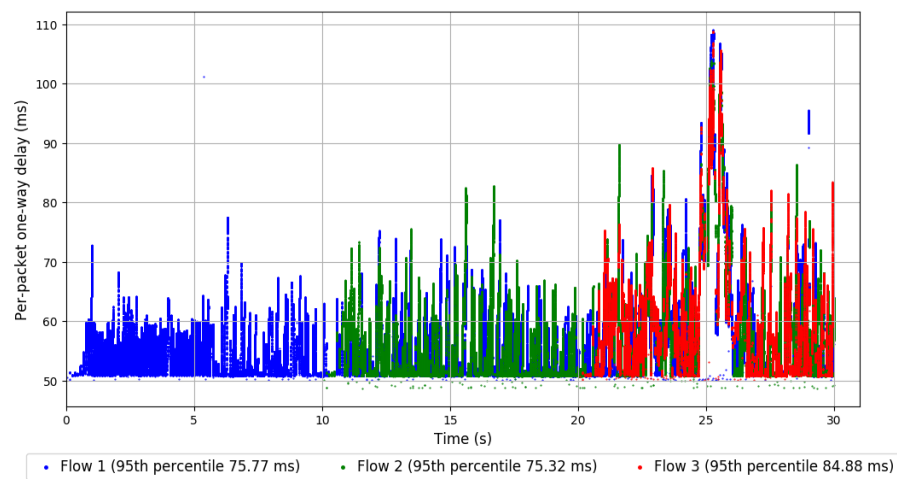
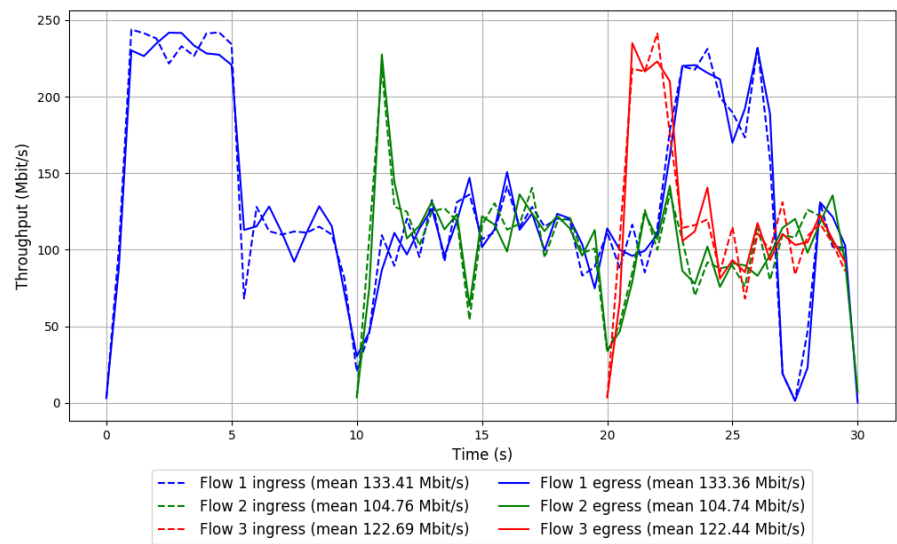
-- Flow 3:

Average throughput: 122.44 Mbit/s

95th percentile per-packet one-way delay: 84.882 ms

Loss rate: 0.00%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2017-12-12 08:42:30

End at: 2017-12-12 08:43:00

Below is generated by plot.py at 2017-12-12 10:33:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 316.77 Mbit/s

95th percentile per-packet one-way delay: 68.964 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 174.21 Mbit/s

95th percentile per-packet one-way delay: 65.494 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 154.47 Mbit/s

95th percentile per-packet one-way delay: 69.175 ms

Loss rate: 0.02%

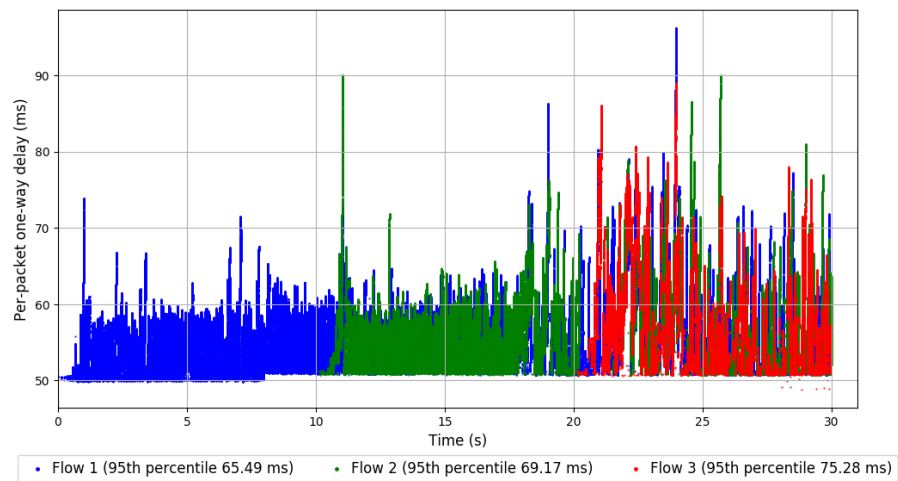
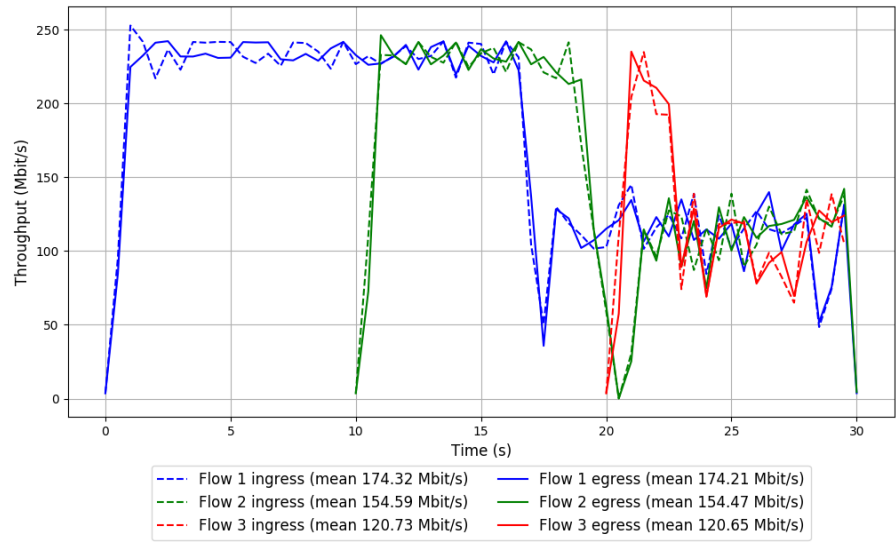
-- Flow 3:

Average throughput: 120.65 Mbit/s

95th percentile per-packet one-way delay: 75.279 ms

Loss rate: 0.00%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2017-12-12 08:54:44

End at: 2017-12-12 08:55:14

Below is generated by plot.py at 2017-12-12 10:33:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 265.79 Mbit/s

95th percentile per-packet one-way delay: 71.688 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 114.07 Mbit/s

95th percentile per-packet one-way delay: 69.356 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 133.99 Mbit/s

95th percentile per-packet one-way delay: 71.312 ms

Loss rate: 0.01%

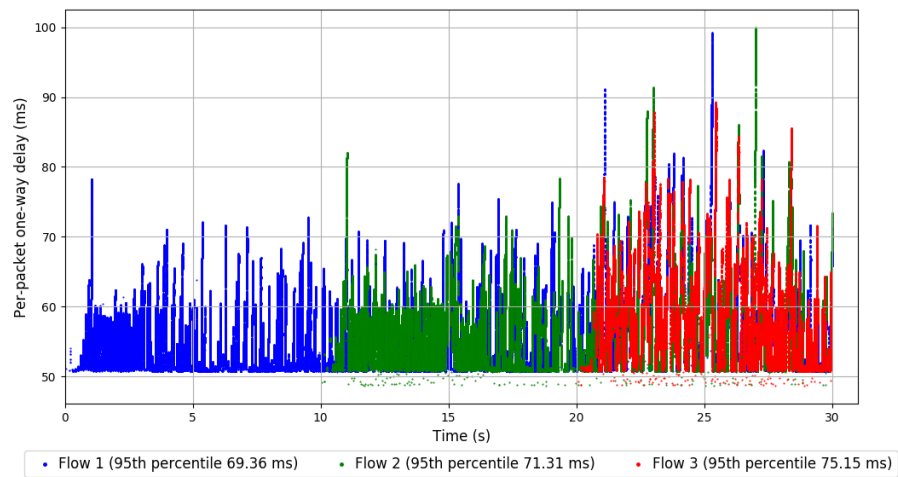
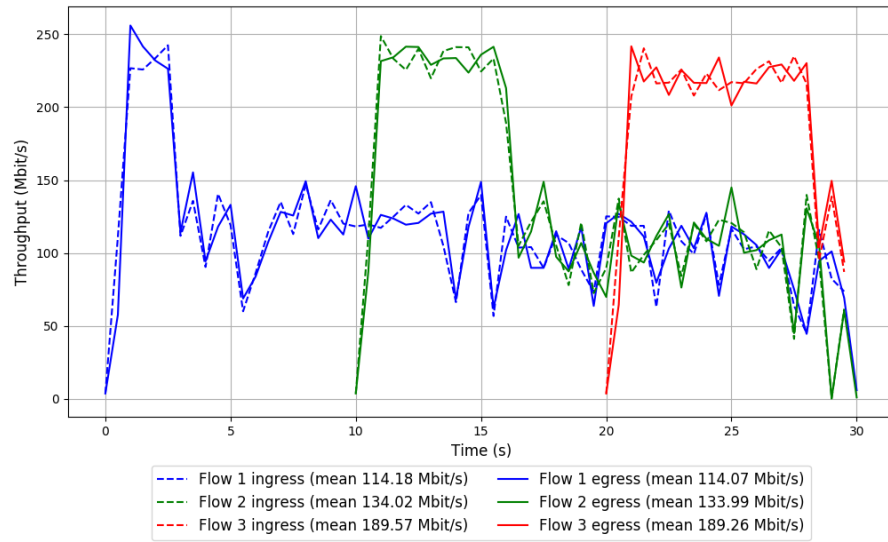
-- Flow 3:

Average throughput: 189.26 Mbit/s

95th percentile per-packet one-way delay: 75.151 ms

Loss rate: 0.00%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

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

End at: 2017-12-12 06:57:36

Below is generated by plot.py at 2017-12-12 10:33:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 244.07 Mbit/s

95th percentile per-packet one-way delay: 58.952 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 158.23 Mbit/s

95th percentile per-packet one-way delay: 59.547 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 126.27 Mbit/s

95th percentile per-packet one-way delay: 56.096 ms

Loss rate: 0.29%

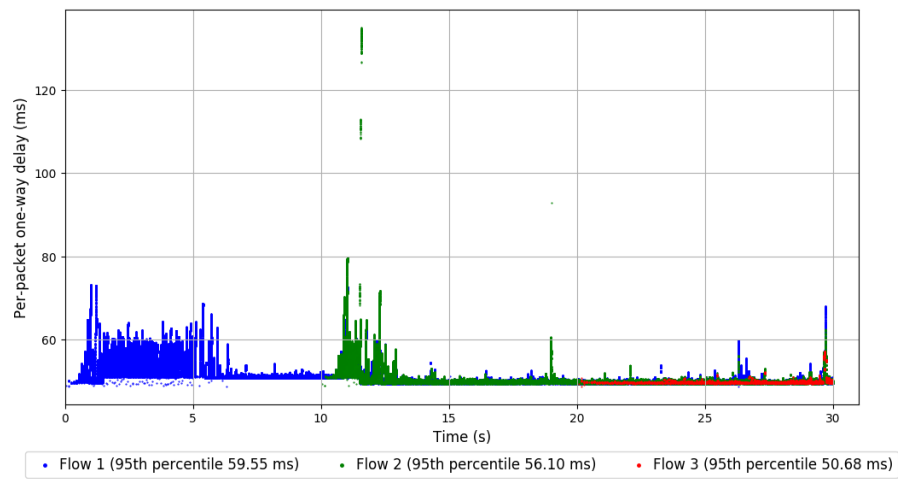
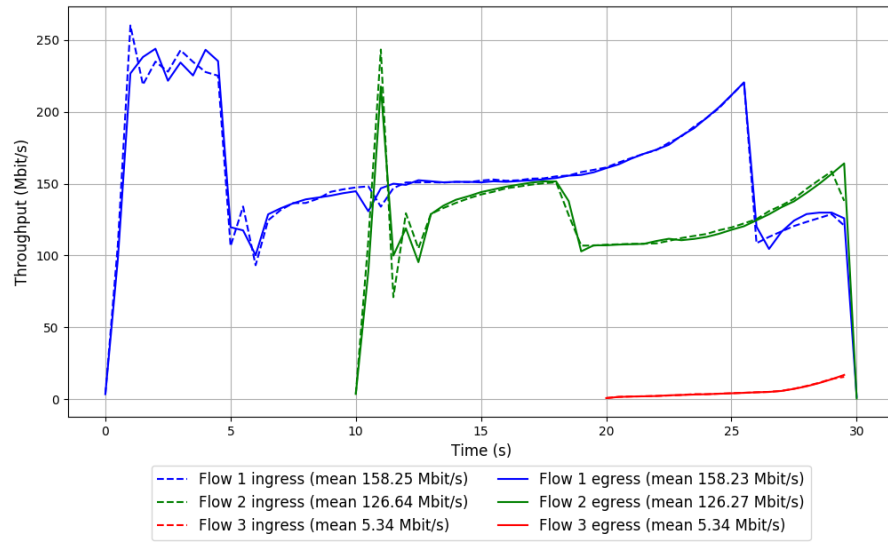
-- Flow 3:

Average throughput: 5.34 Mbit/s

95th percentile per-packet one-way delay: 50.677 ms

Loss rate: 0.07%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2017-12-12 07:09:13

End at: 2017-12-12 07:09:43

Below is generated by plot.py at 2017-12-12 10:33:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 250.98 Mbit/s

95th percentile per-packet one-way delay: 61.322 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 126.93 Mbit/s

95th percentile per-packet one-way delay: 60.058 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 183.95 Mbit/s

95th percentile per-packet one-way delay: 62.300 ms

Loss rate: 0.00%

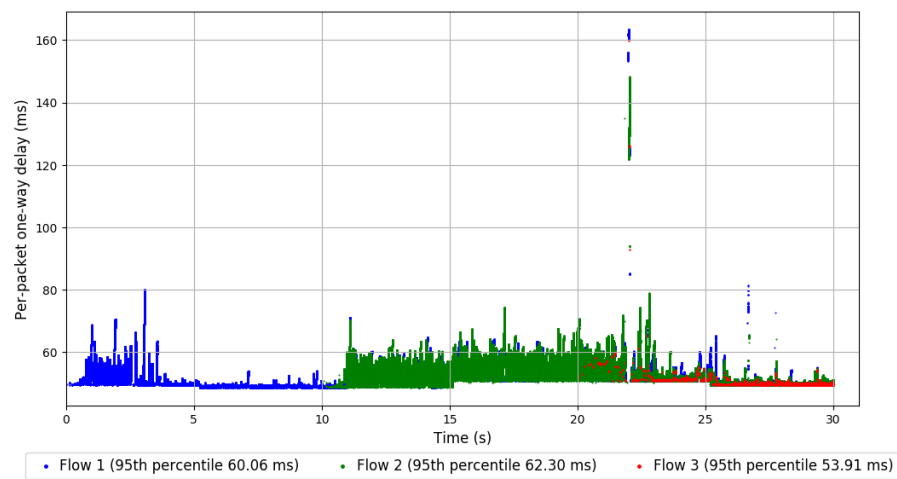
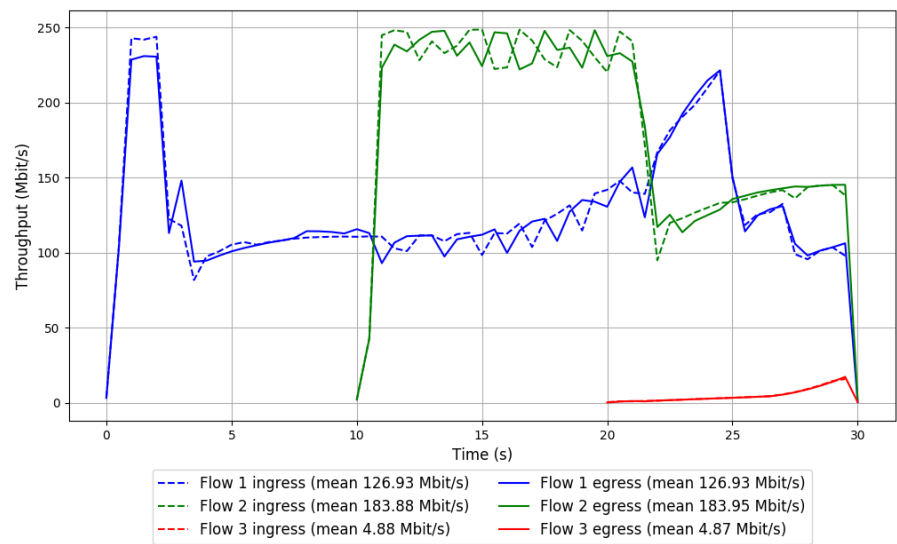
-- Flow 3:

Average throughput: 4.87 Mbit/s

95th percentile per-packet one-way delay: 53.912 ms

Loss rate: 0.22%

Run 2: Report of TCP Cubic — Data Link

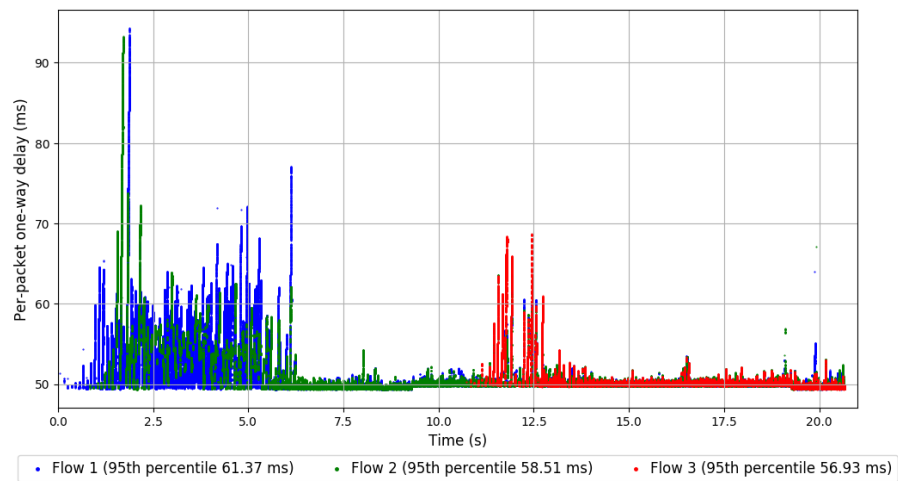
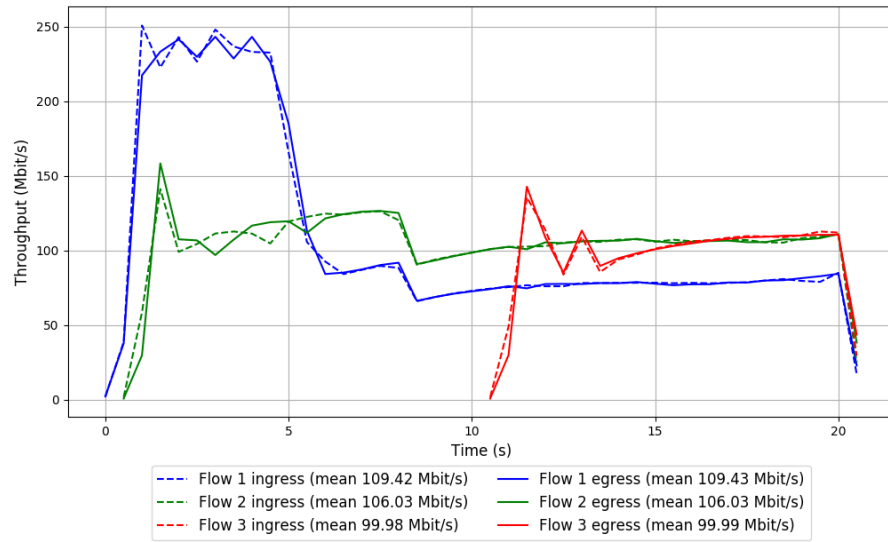


Run 3: Statistics of TCP Cubic

Start at: 2017-12-12 07:21:19

End at: 2017-12-12 07:21:49

Run 3: Report of TCP Cubic — Data Link

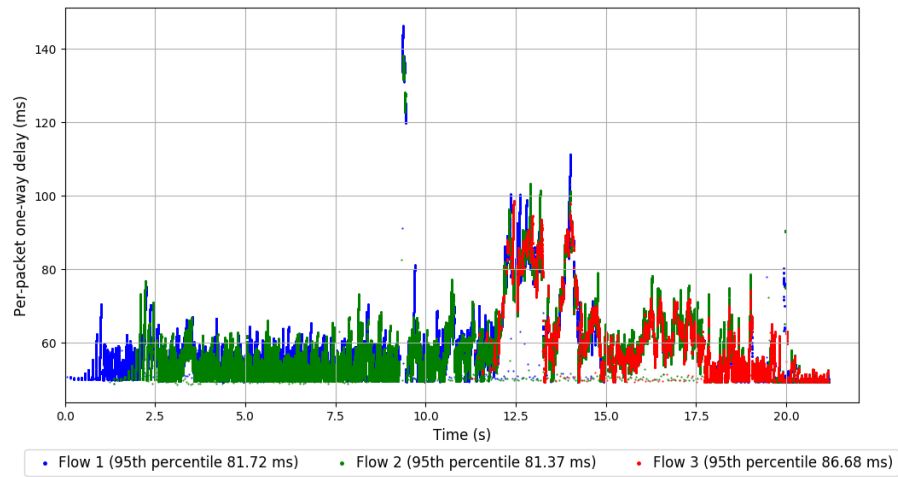
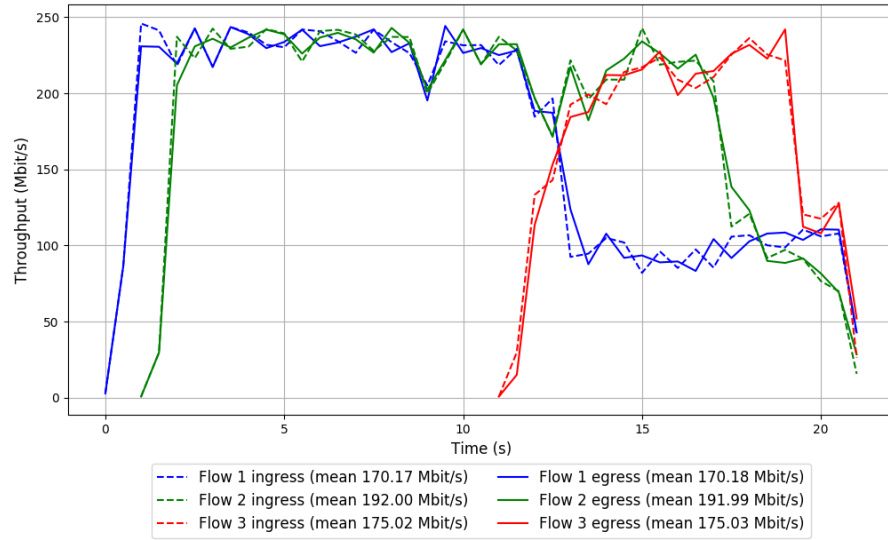


Run 4: Statistics of TCP Cubic

Start at: 2017-12-12 07:33:16

End at: 2017-12-12 07:33:46

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2017-12-12 07:45:28

End at: 2017-12-12 07:45:58

Below is generated by plot.py at 2017-12-12 10:34:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 261.51 Mbit/s

95th percentile per-packet one-way delay: 59.884 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 188.67 Mbit/s

95th percentile per-packet one-way delay: 60.009 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 51.60 Mbit/s

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

Loss rate: 0.00%

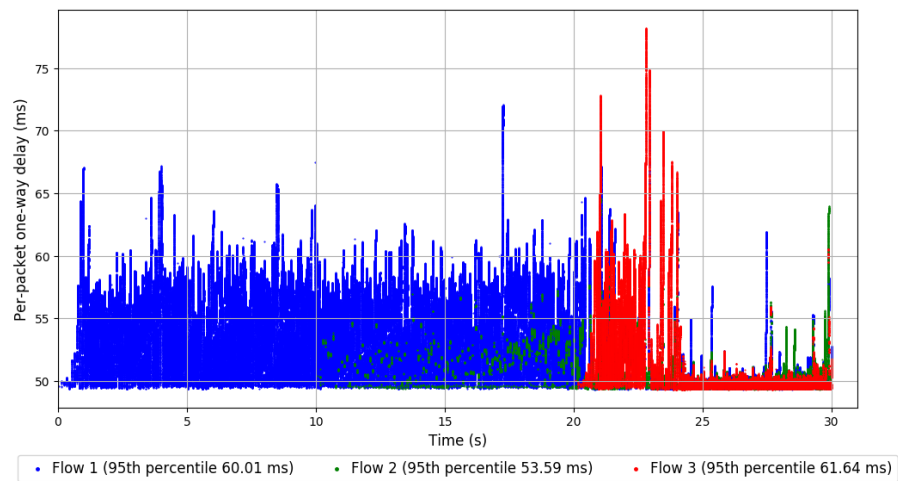
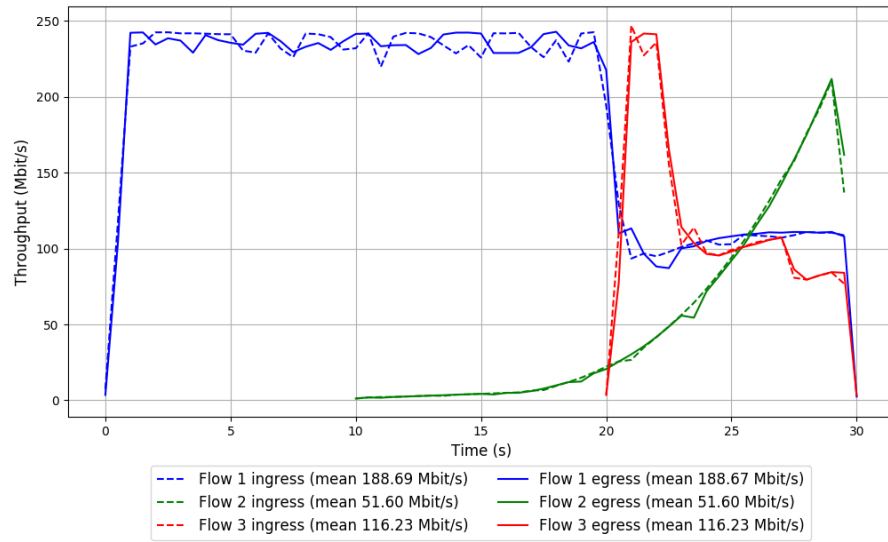
-- Flow 3:

Average throughput: 116.23 Mbit/s

95th percentile per-packet one-way delay: 61.636 ms

Loss rate: 0.00%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2017-12-12 07:57:37

End at: 2017-12-12 07:58:07

Below is generated by plot.py at 2017-12-12 10:34:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 254.35 Mbit/s

95th percentile per-packet one-way delay: 54.202 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 137.80 Mbit/s

95th percentile per-packet one-way delay: 53.486 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 126.31 Mbit/s

95th percentile per-packet one-way delay: 55.717 ms

Loss rate: 0.00%

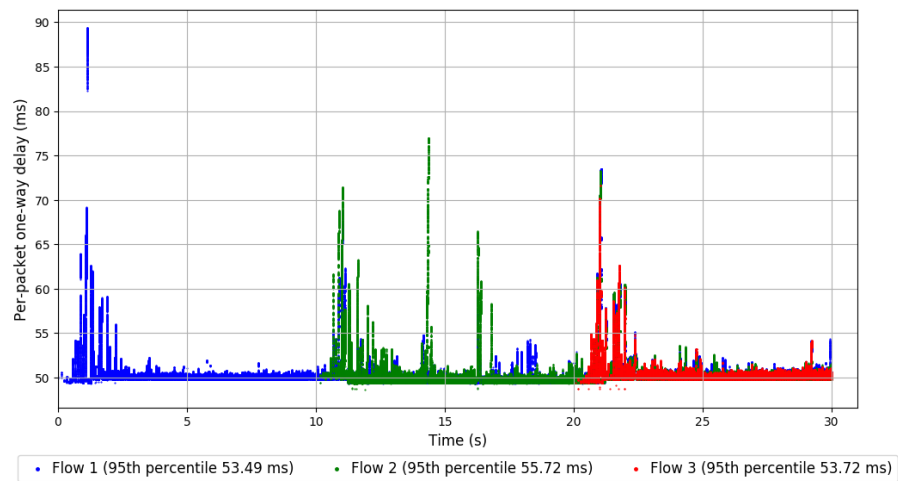
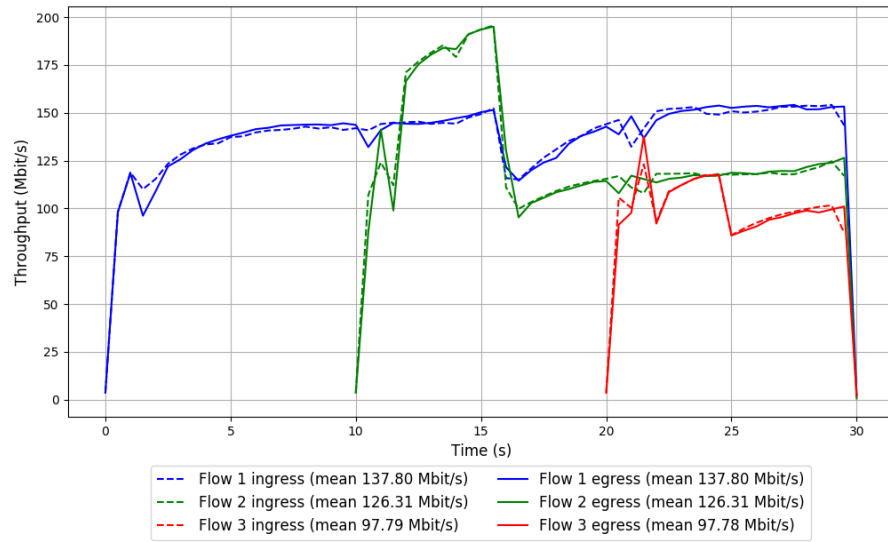
-- Flow 3:

Average throughput: 97.78 Mbit/s

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

Loss rate: 0.00%

Run 6: Report of TCP Cubic — Data Link

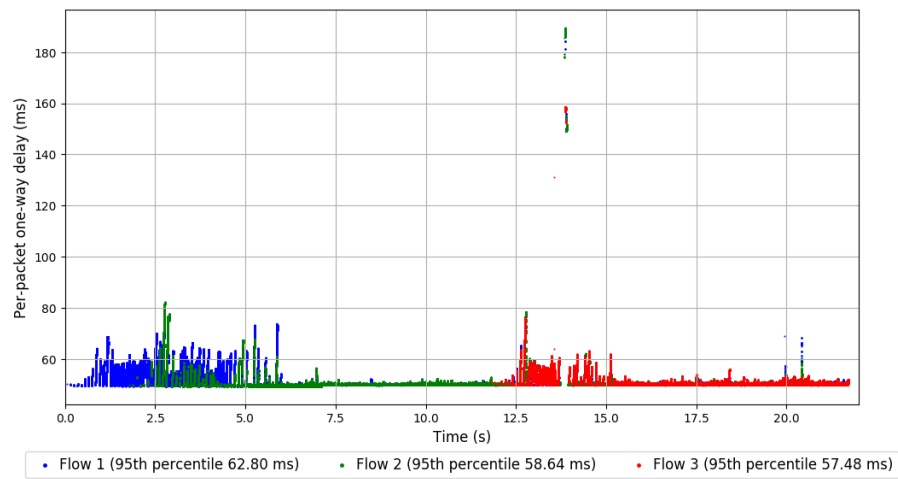
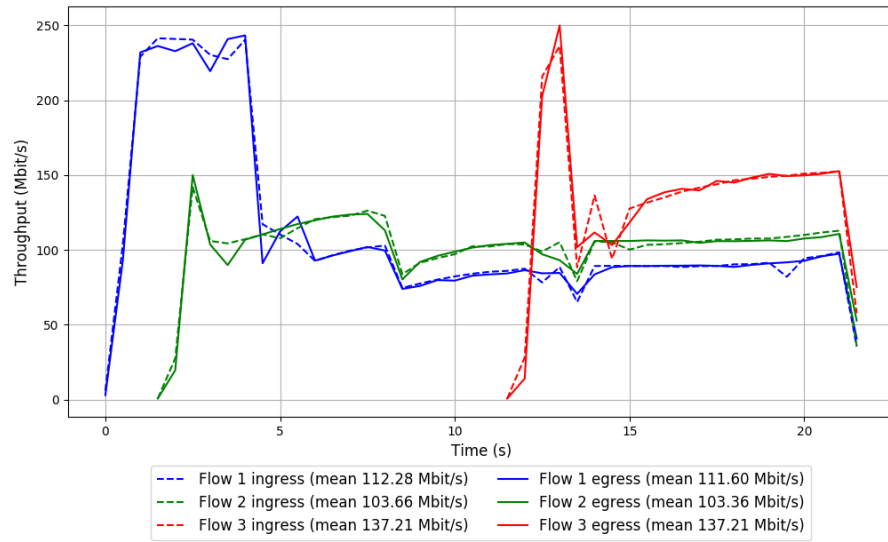


Run 7: Statistics of TCP Cubic

Start at: 2017-12-12 08:09:42

End at: 2017-12-12 08:10:12

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2017-12-12 08:21:36

End at: 2017-12-12 08:22:06

Below is generated by plot.py at 2017-12-12 10:36:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 210.11 Mbit/s

95th percentile per-packet one-way delay: 60.106 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 121.23 Mbit/s

95th percentile per-packet one-way delay: 57.440 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 130.75 Mbit/s

95th percentile per-packet one-way delay: 61.601 ms

Loss rate: 0.03%

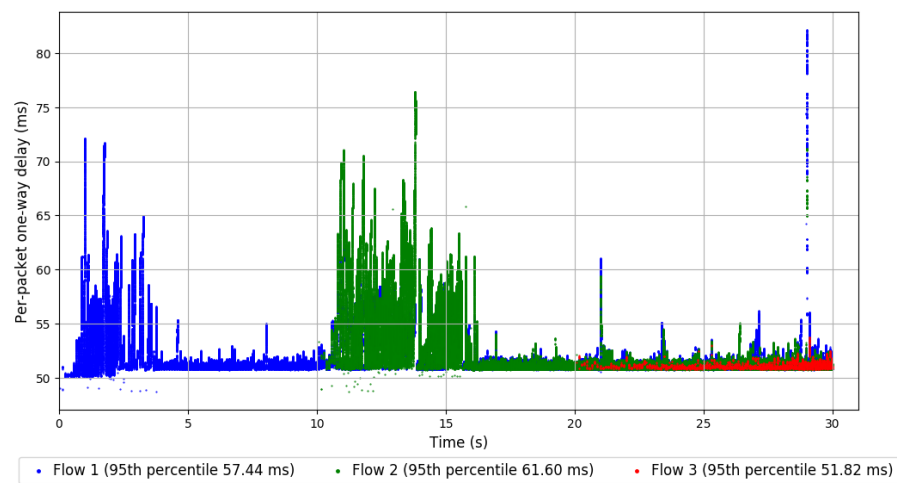
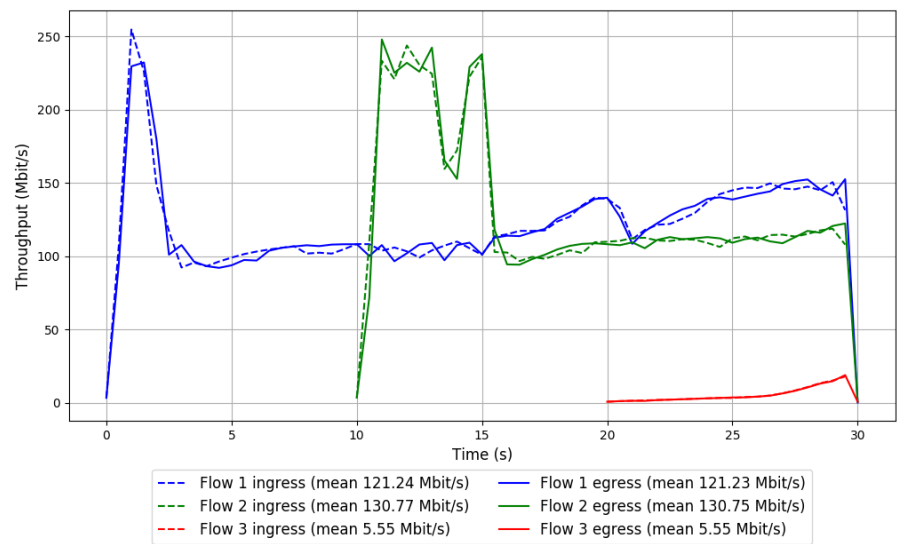
-- Flow 3:

Average throughput: 5.55 Mbit/s

95th percentile per-packet one-way delay: 51.823 ms

Loss rate: 0.02%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2017-12-12 08:33:51

End at: 2017-12-12 08:34:21

Below is generated by plot.py at 2017-12-12 10:37:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 232.80 Mbit/s

95th percentile per-packet one-way delay: 59.335 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 151.03 Mbit/s

95th percentile per-packet one-way delay: 59.564 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 51.94 Mbit/s

95th percentile per-packet one-way delay: 55.850 ms

Loss rate: 0.24%

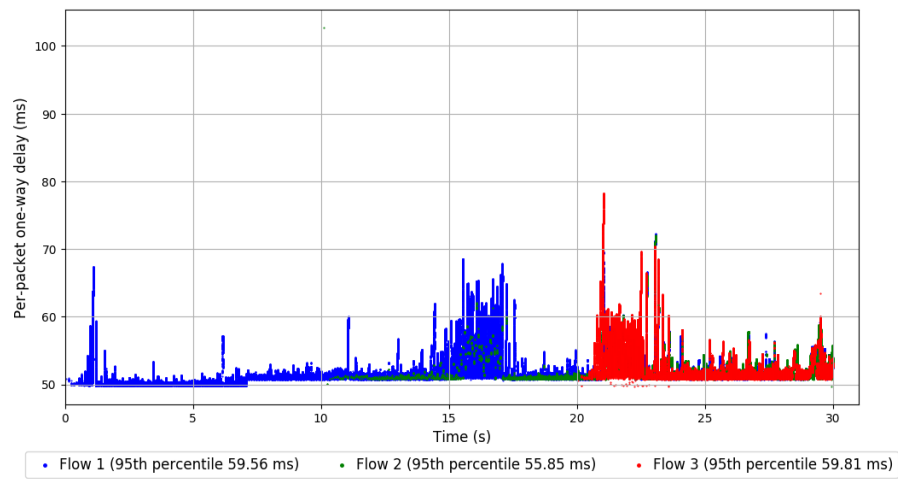
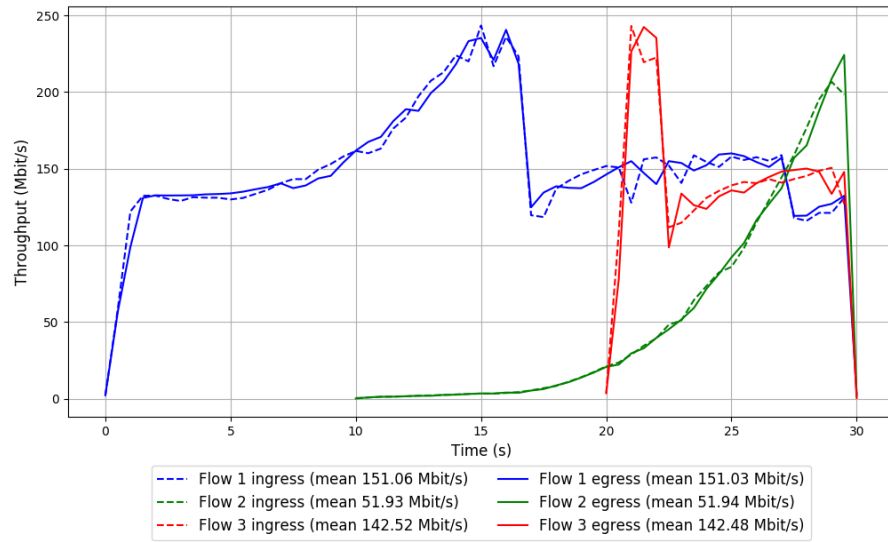
-- Flow 3:

Average throughput: 142.48 Mbit/s

95th percentile per-packet one-way delay: 59.809 ms

Loss rate: 0.00%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2017-12-12 08:45:54

End at: 2017-12-12 08:46:24

Below is generated by plot.py at 2017-12-12 10:37:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 255.60 Mbit/s

95th percentile per-packet one-way delay: 60.793 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 139.85 Mbit/s

95th percentile per-packet one-way delay: 60.255 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 171.30 Mbit/s

95th percentile per-packet one-way delay: 61.157 ms

Loss rate: 0.01%

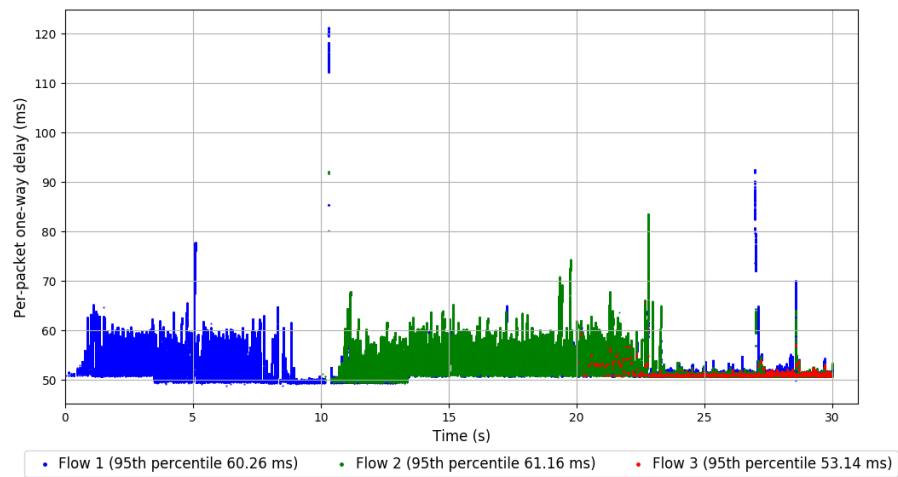
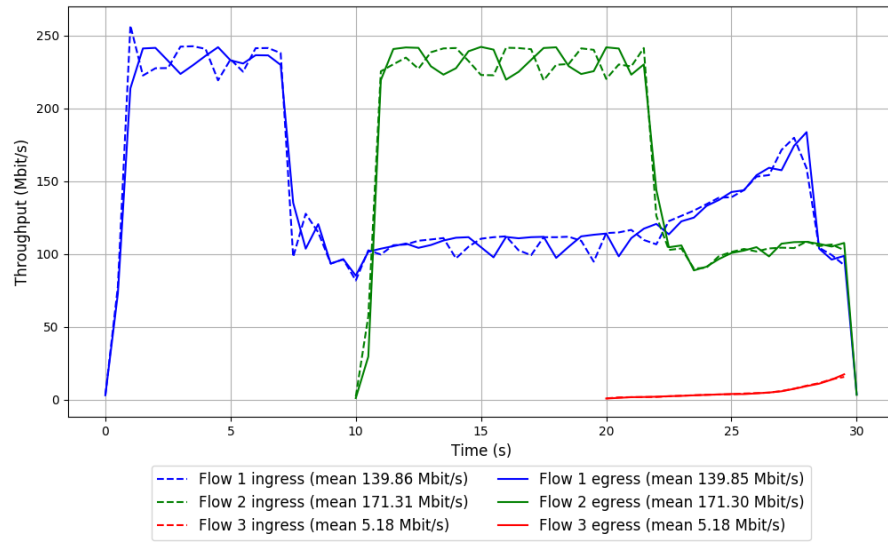
-- Flow 3:

Average throughput: 5.18 Mbit/s

95th percentile per-packet one-way delay: 53.143 ms

Loss rate: 0.09%

Run 10: Report of TCP Cubic — Data Link

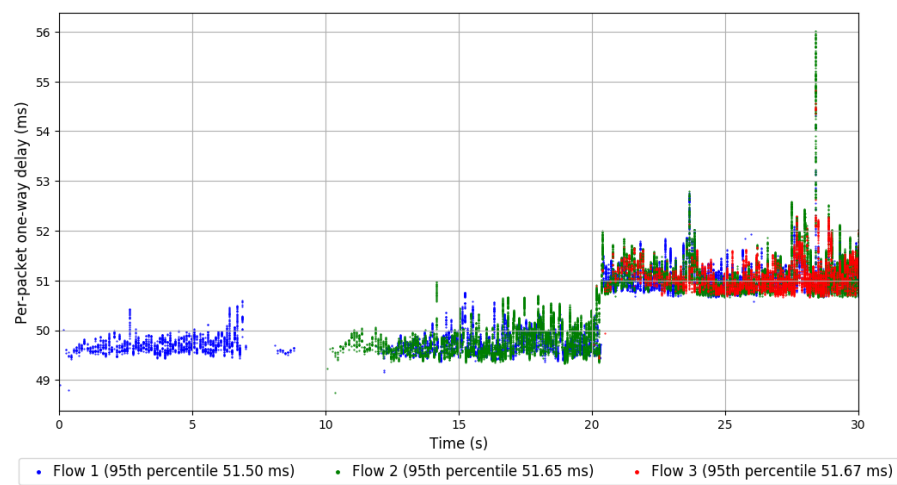
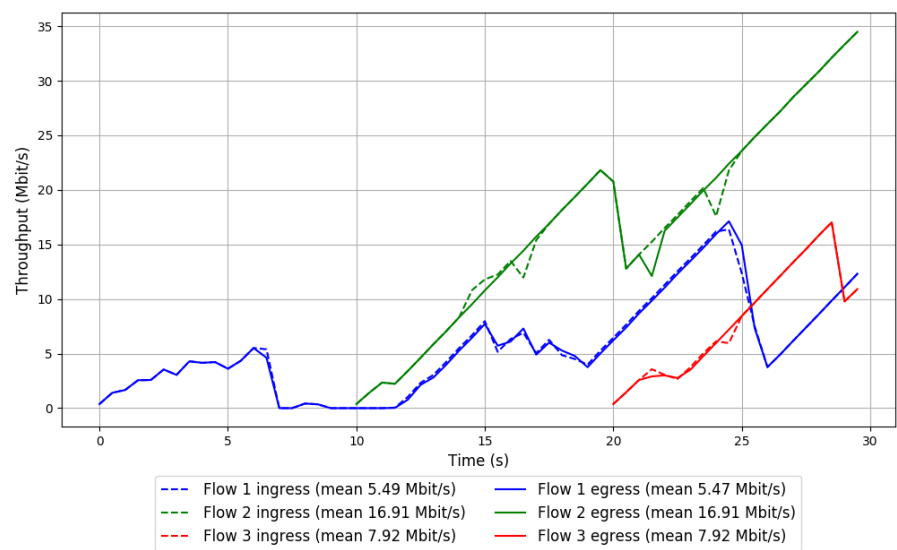


```
Run 1: Statistics of LEDBAT

Start at: 2017-12-12 07:03:17
End at: 2017-12-12 07:03:47

# Below is generated by plot.py at 2017-12-12 10:37:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 19.35 Mbit/s
95th percentile per-packet one-way delay: 51.614 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 5.47 Mbit/s
95th percentile per-packet one-way delay: 51.499 ms
Loss rate: 0.29%
-- Flow 2:
Average throughput: 16.91 Mbit/s
95th percentile per-packet one-way delay: 51.648 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 7.92 Mbit/s
95th percentile per-packet one-way delay: 51.674 ms
Loss rate: 0.00%
```


Run 1: Report of LEDBAT — Data Link

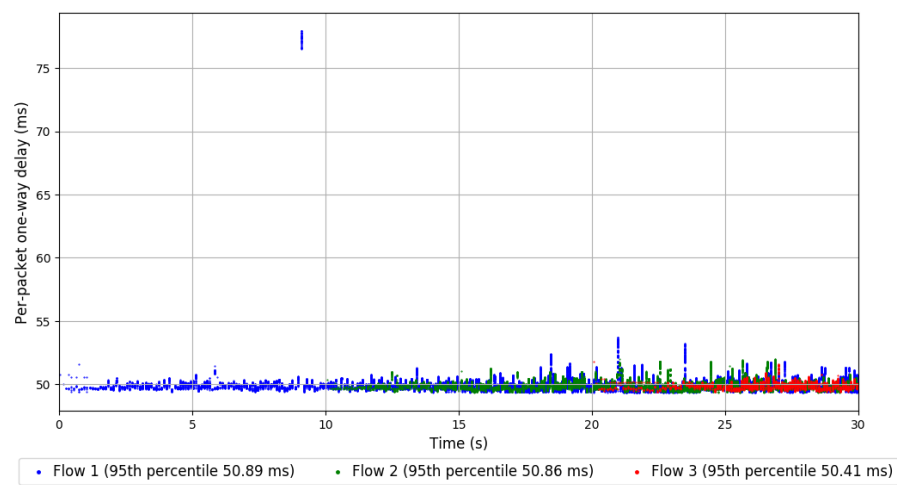
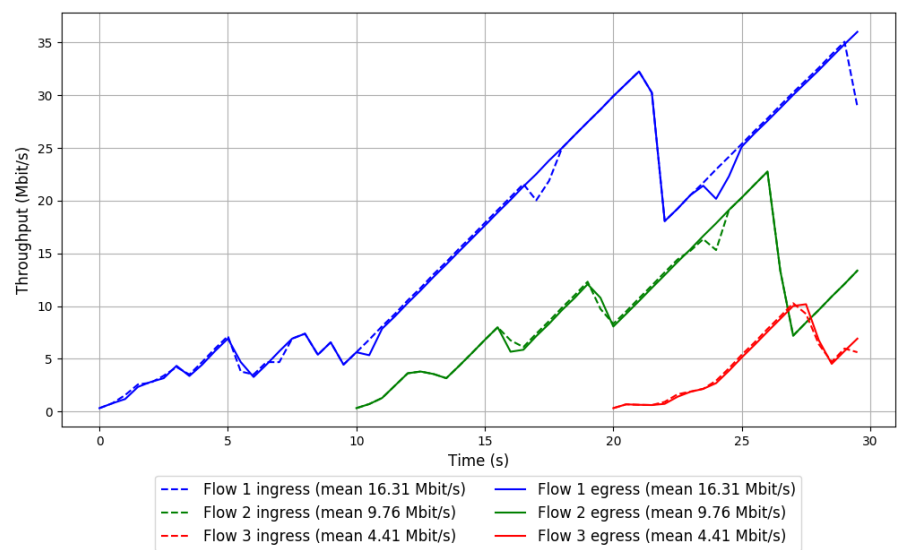


```
Run 2: Statistics of LEDBAT

Start at: 2017-12-12 07:15:28
End at: 2017-12-12 07:15:58

# Below is generated by plot.py at 2017-12-12 10:37:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 24.23 Mbit/s
95th percentile per-packet one-way delay: 50.857 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 16.31 Mbit/s
95th percentile per-packet one-way delay: 50.893 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 9.76 Mbit/s
95th percentile per-packet one-way delay: 50.858 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 4.41 Mbit/s
95th percentile per-packet one-way delay: 50.408 ms
Loss rate: 0.00%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2017-12-12 07:27:28

End at: 2017-12-12 07:27:58

Below is generated by plot.py at 2017-12-12 10:37:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 18.68 Mbit/s

95th percentile per-packet one-way delay: 50.681 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 11.19 Mbit/s

95th percentile per-packet one-way delay: 50.715 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 7.85 Mbit/s

95th percentile per-packet one-way delay: 50.575 ms

Loss rate: 0.01%

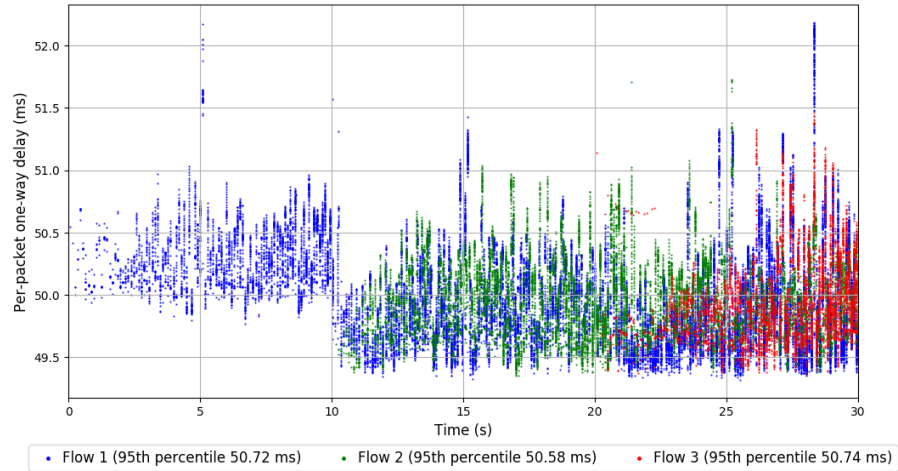
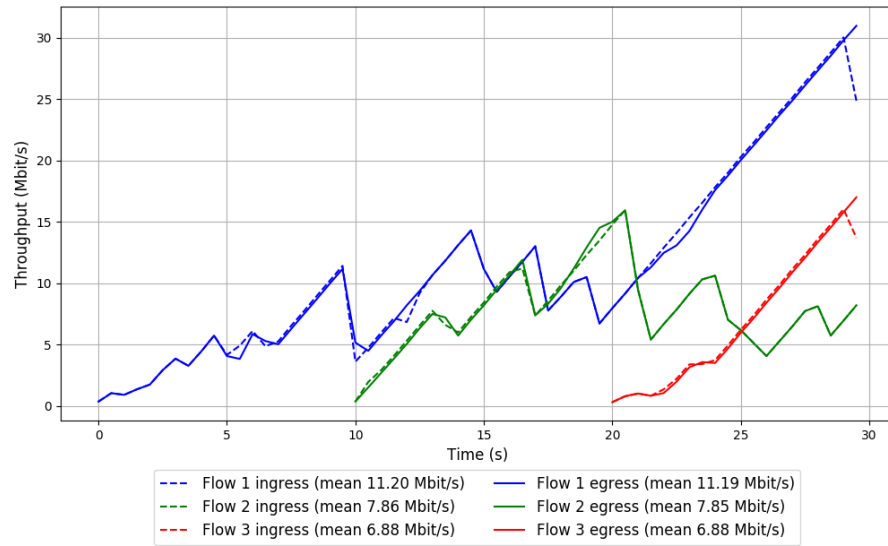
-- Flow 3:

Average throughput: 6.88 Mbit/s

95th percentile per-packet one-way delay: 50.744 ms

Loss rate: 0.00%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2017-12-12 07:39:39

End at: 2017-12-12 07:40:09

Below is generated by plot.py at 2017-12-12 10:37:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 25.79 Mbit/s

95th percentile per-packet one-way delay: 51.128 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 15.90 Mbit/s

95th percentile per-packet one-way delay: 51.159 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 11.54 Mbit/s

95th percentile per-packet one-way delay: 51.104 ms

Loss rate: 0.00%

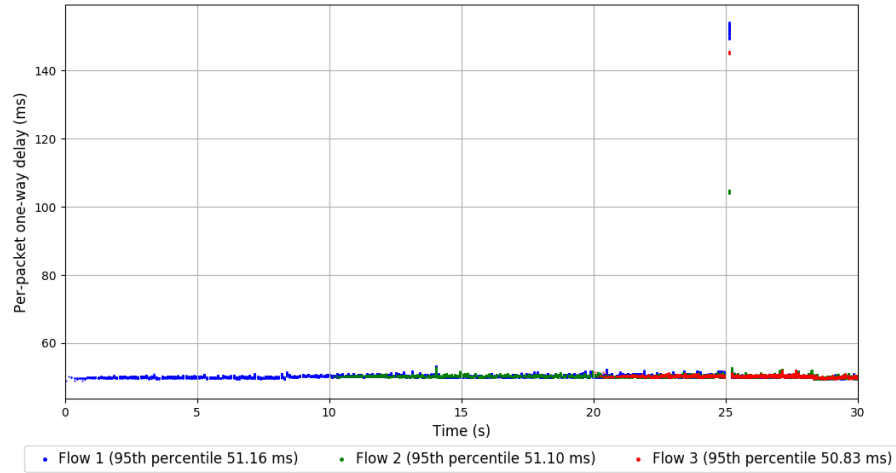
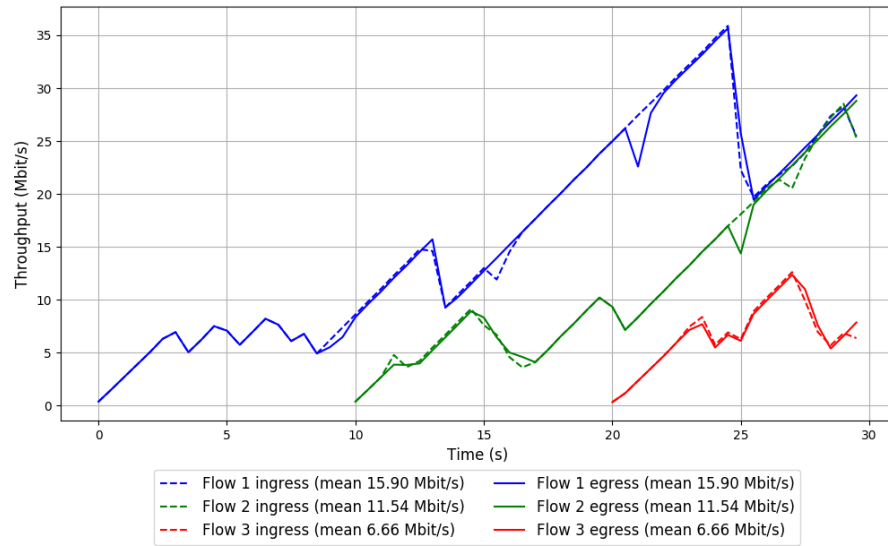
-- Flow 3:

Average throughput: 6.66 Mbit/s

95th percentile per-packet one-way delay: 50.827 ms

Loss rate: 0.00%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2017-12-12 07:51:38

End at: 2017-12-12 07:52:08

Below is generated by plot.py at 2017-12-12 10:37:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 19.75 Mbit/s

95th percentile per-packet one-way delay: 51.355 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 11.20 Mbit/s

95th percentile per-packet one-way delay: 51.431 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 9.06 Mbit/s

95th percentile per-packet one-way delay: 51.343 ms

Loss rate: 0.04%

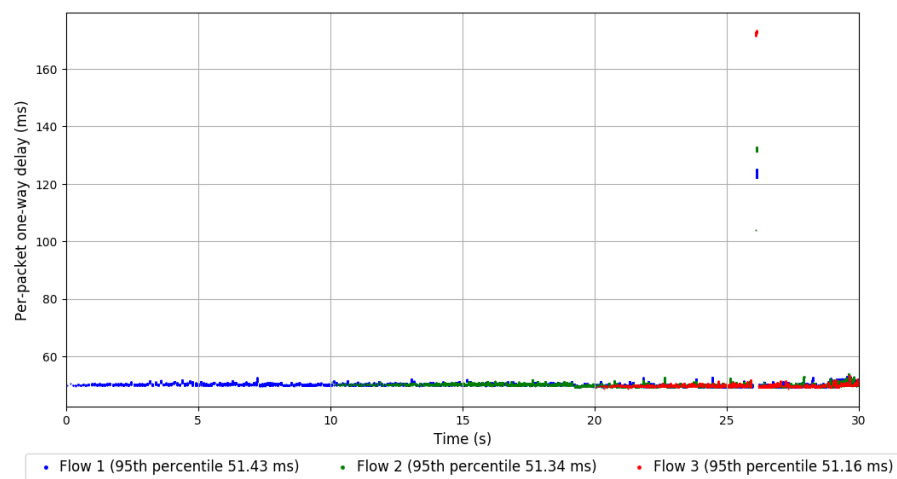
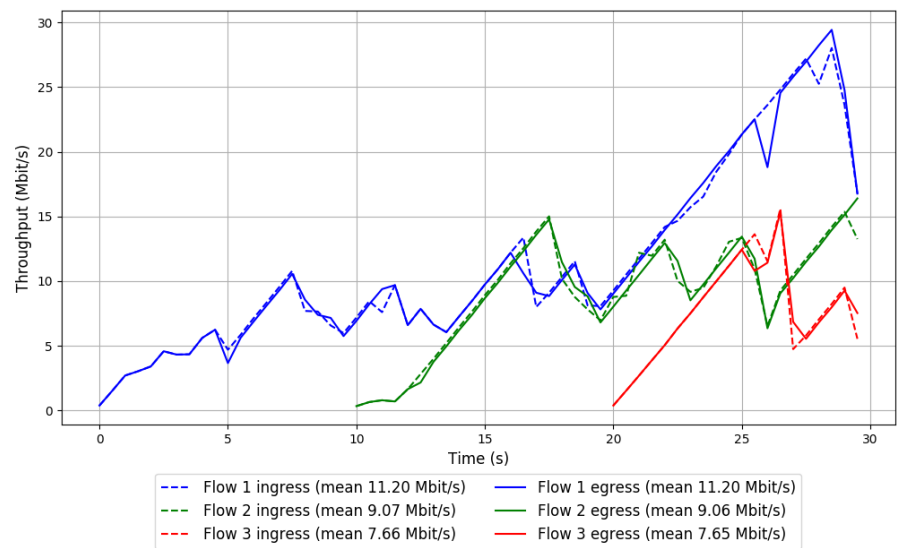
-- Flow 3:

Average throughput: 7.65 Mbit/s

95th percentile per-packet one-way delay: 51.160 ms

Loss rate: 0.06%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2017-12-12 08:03:47

End at: 2017-12-12 08:04:17

Below is generated by plot.py at 2017-12-12 10:37:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 27.86 Mbit/s

95th percentile per-packet one-way delay: 51.065 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 10.57 Mbit/s

95th percentile per-packet one-way delay: 50.781 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 22.03 Mbit/s

95th percentile per-packet one-way delay: 51.298 ms

Loss rate: 0.00%

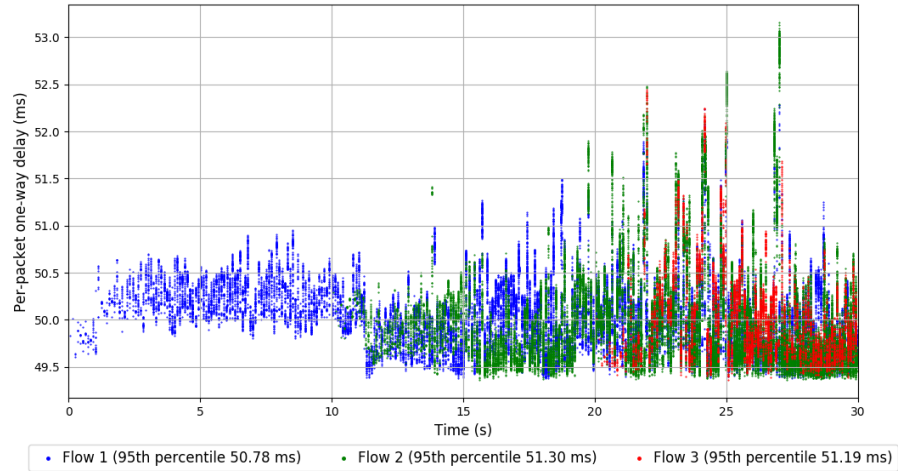
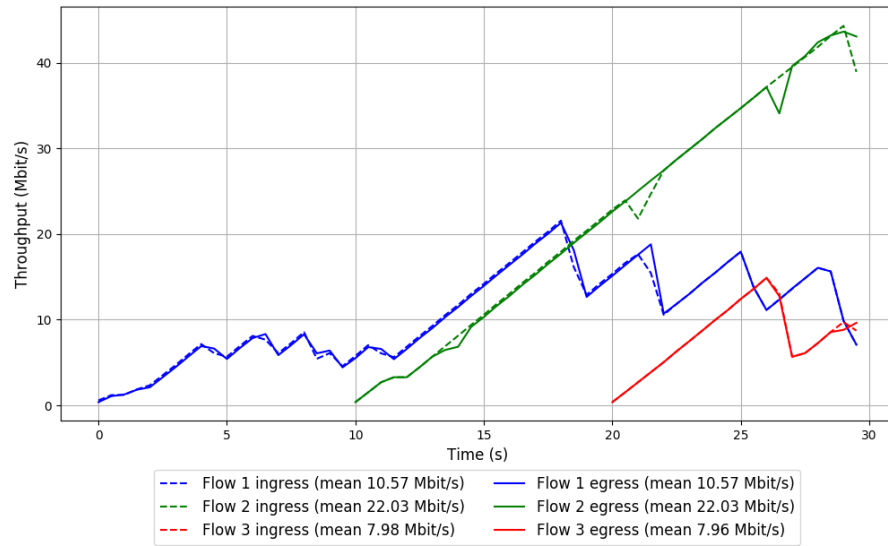
-- Flow 3:

Average throughput: 7.96 Mbit/s

95th percentile per-packet one-way delay: 51.189 ms

Loss rate: 0.18%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2017-12-12 08:15:42

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

Below is generated by plot.py at 2017-12-12 10:37:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 20.01 Mbit/s

95th percentile per-packet one-way delay: 51.806 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 10.59 Mbit/s

95th percentile per-packet one-way delay: 51.758 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 9.68 Mbit/s

95th percentile per-packet one-way delay: 51.801 ms

Loss rate: 0.04%

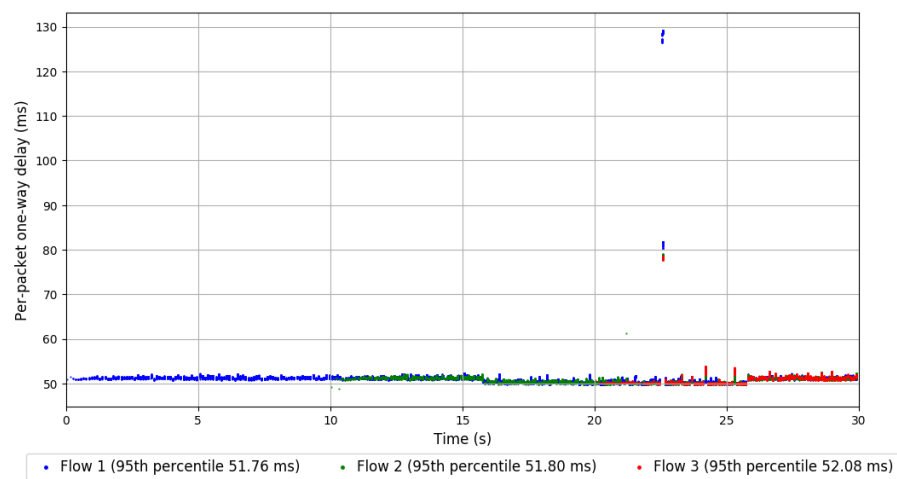
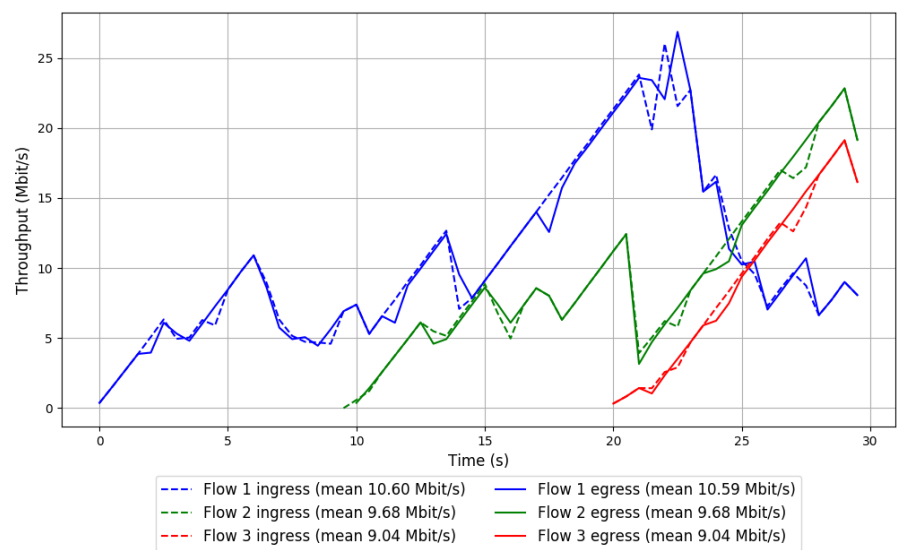
-- Flow 3:

Average throughput: 9.04 Mbit/s

95th percentile per-packet one-way delay: 52.078 ms

Loss rate: 0.00%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2017-12-12 08:27:53

End at: 2017-12-12 08:28:23

Below is generated by plot.py at 2017-12-12 10:37:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 25.24 Mbit/s

95th percentile per-packet one-way delay: 52.181 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 10.63 Mbit/s

95th percentile per-packet one-way delay: 52.018 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 18.35 Mbit/s

95th percentile per-packet one-way delay: 52.452 ms

Loss rate: 0.00%

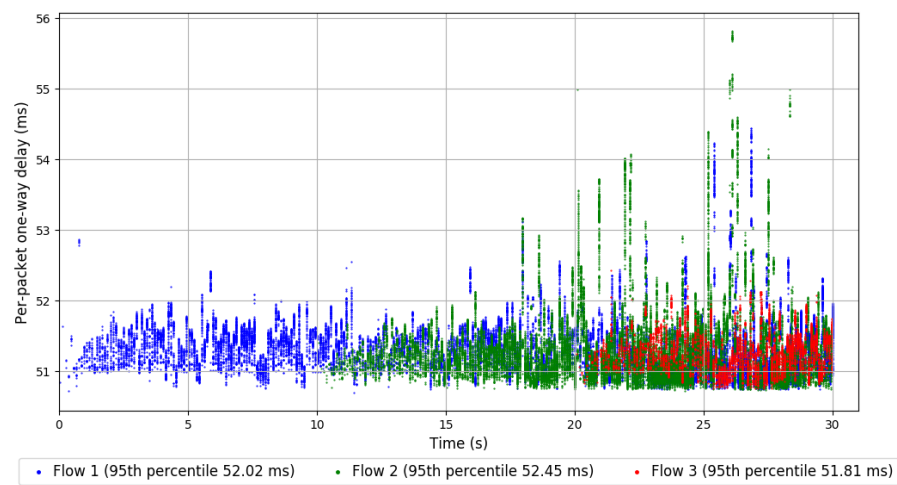
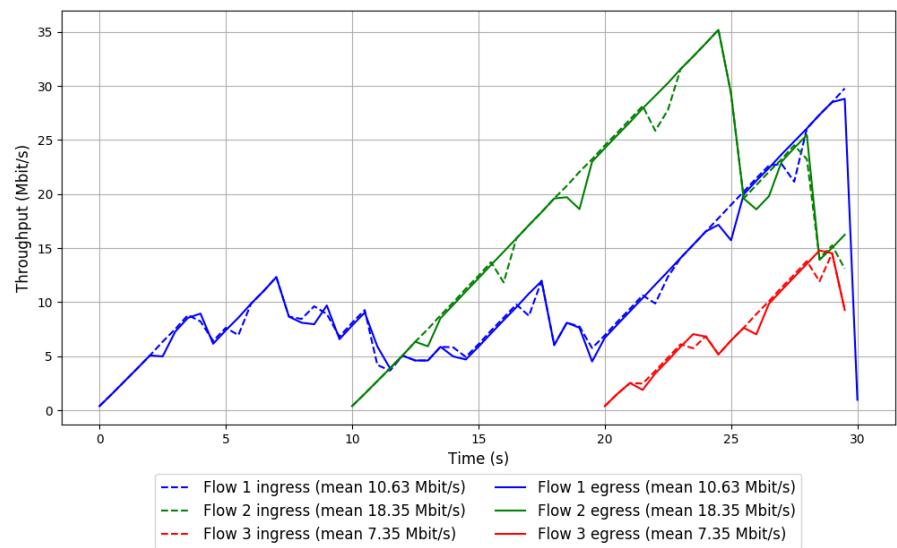
-- Flow 3:

Average throughput: 7.35 Mbit/s

95th percentile per-packet one-way delay: 51.808 ms

Loss rate: 0.03%

Run 8: Report of LEDBAT — Data Link

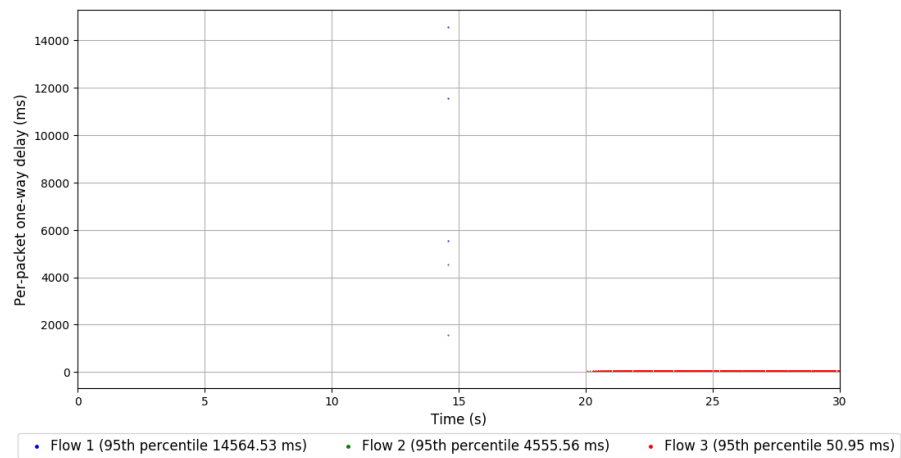
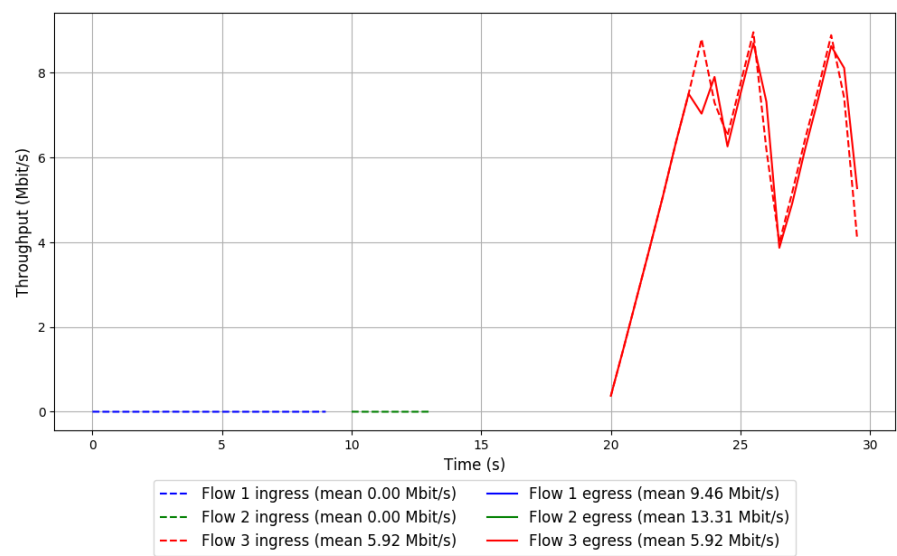


Run 9: Statistics of LEDBAT

Start at: 2017-12-12 08:40:00

End at: 2017-12-12 08:40:30

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2017-12-12 08:52:13

End at: 2017-12-12 08:52:43

Below is generated by plot.py at 2017-12-12 10:37:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 28.78 Mbit/s

95th percentile per-packet one-way delay: 52.011 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 19.41 Mbit/s

95th percentile per-packet one-way delay: 52.148 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 11.11 Mbit/s

95th percentile per-packet one-way delay: 51.798 ms

Loss rate: 0.05%

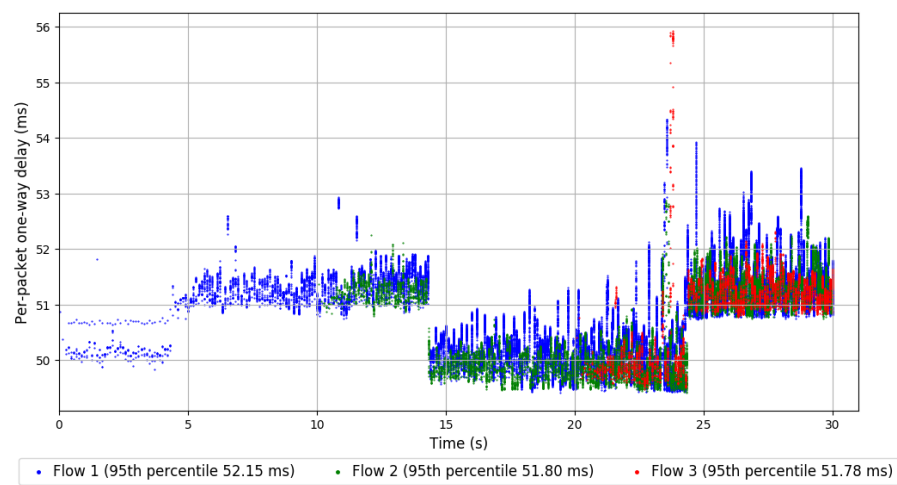
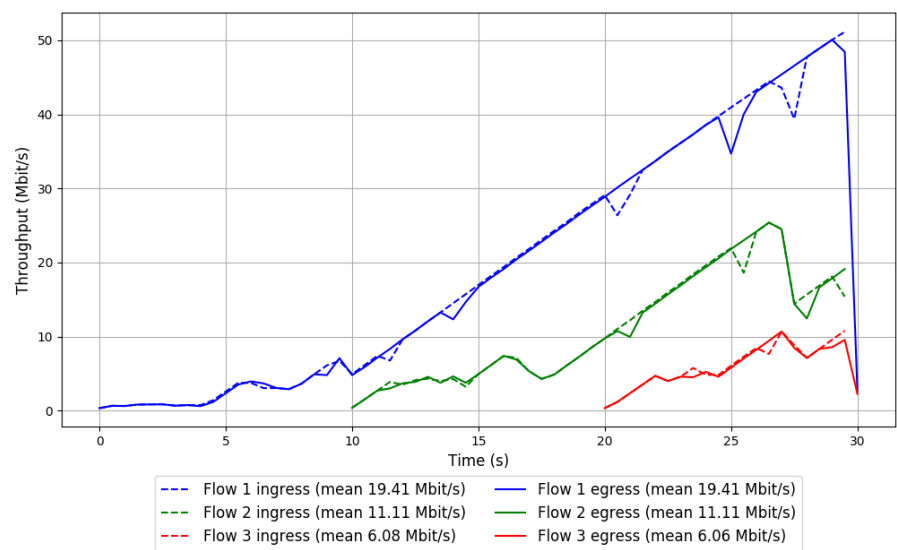
-- Flow 3:

Average throughput: 6.06 Mbit/s

95th percentile per-packet one-way delay: 51.778 ms

Loss rate: 0.33%

Run 10: Report of LEDBAT — Data Link

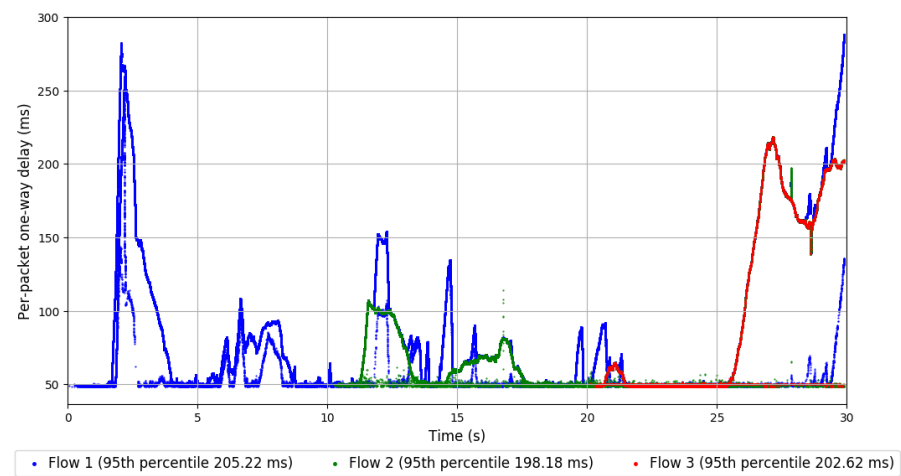
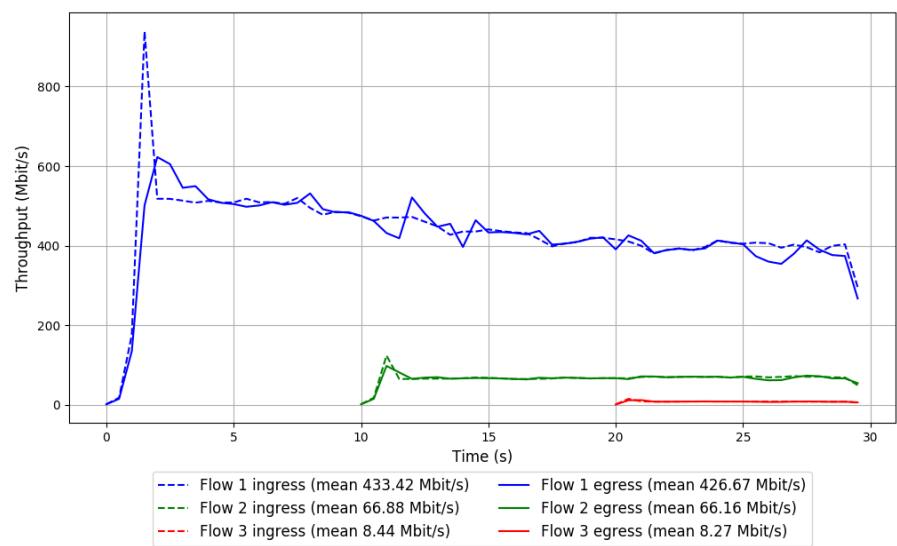


```
Run 1: Statistics of PCC

Start at: 2017-12-12 07:06:48
End at: 2017-12-12 07:07:18

# Below is generated by plot.py at 2017-12-12 10:43:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 473.35 Mbit/s
95th percentile per-packet one-way delay: 204.047 ms
Loss rate: 1.52%
-- Flow 1:
Average throughput: 426.67 Mbit/s
95th percentile per-packet one-way delay: 205.222 ms
Loss rate: 1.56%
-- Flow 2:
Average throughput: 66.16 Mbit/s
95th percentile per-packet one-way delay: 198.183 ms
Loss rate: 1.06%
-- Flow 3:
Average throughput: 8.27 Mbit/s
95th percentile per-packet one-way delay: 202.620 ms
Loss rate: 2.07%
```

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2017-12-12 07:18:54

End at: 2017-12-12 07:19:24

Below is generated by plot.py at 2017-12-12 10:44:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 489.68 Mbit/s

95th percentile per-packet one-way delay: 151.524 ms

Loss rate: 0.25%

-- Flow 1:

Average throughput: 475.98 Mbit/s

95th percentile per-packet one-way delay: 153.069 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 4.60 Mbit/s

95th percentile per-packet one-way delay: 164.221 ms

Loss rate: 0.18%

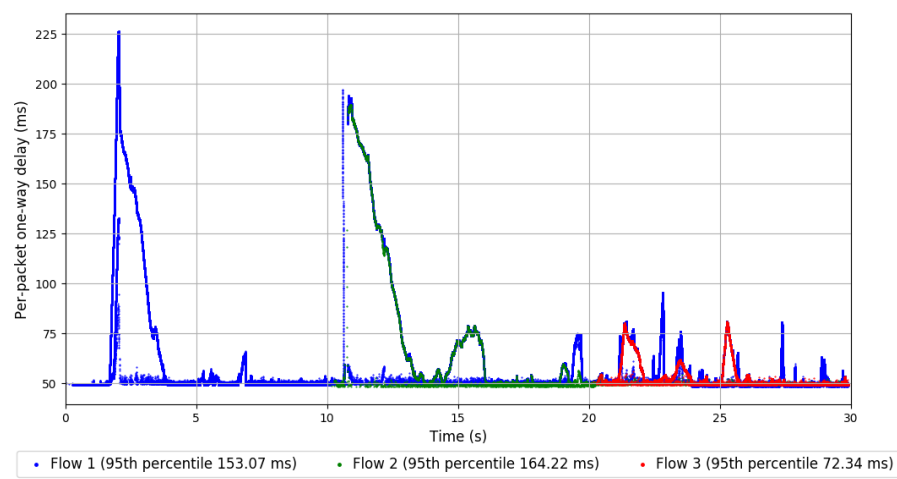
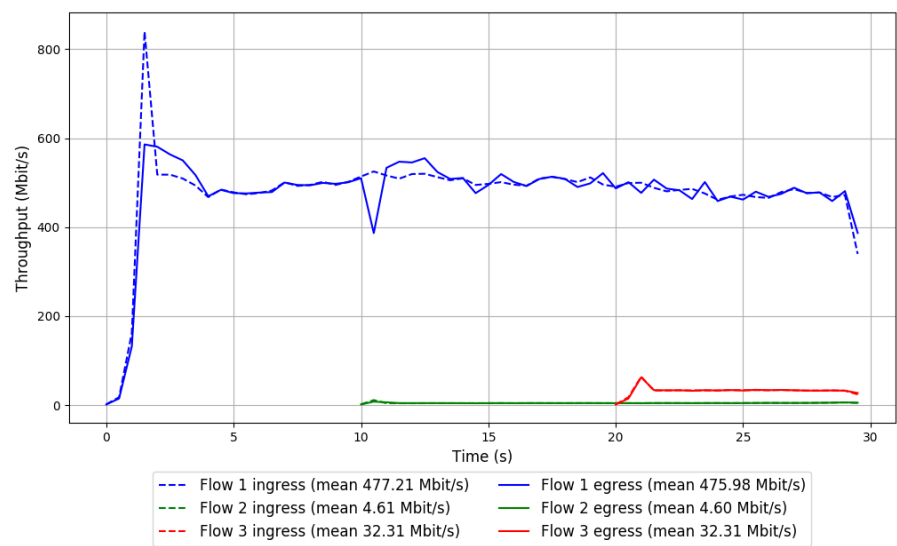
-- Flow 3:

Average throughput: 32.31 Mbit/s

95th percentile per-packet one-way delay: 72.342 ms

Loss rate: 0.00%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2017-12-12 07:30:53

End at: 2017-12-12 07:31:23

Below is generated by plot.py at 2017-12-12 10:44:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 429.50 Mbit/s

95th percentile per-packet one-way delay: 201.219 ms

Loss rate: 1.32%

-- Flow 1:

Average throughput: 364.34 Mbit/s

95th percentile per-packet one-way delay: 201.214 ms

Loss rate: 1.38%

-- Flow 2:

Average throughput: 67.70 Mbit/s

95th percentile per-packet one-way delay: 203.158 ms

Loss rate: 1.43%

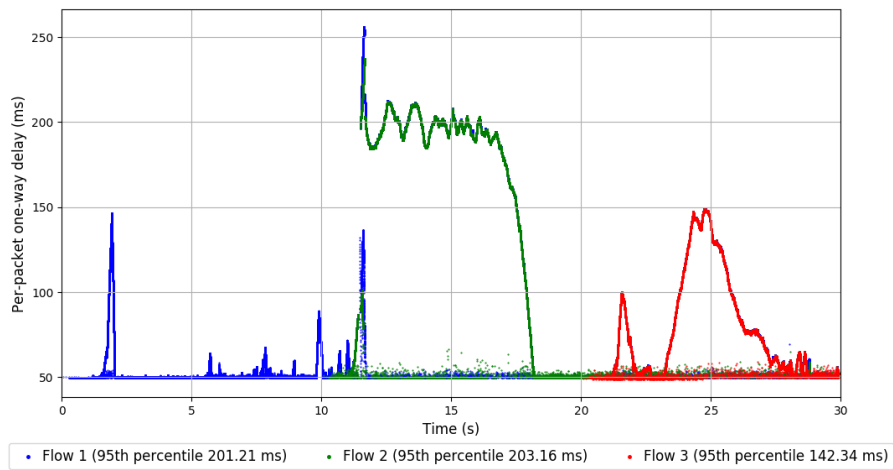
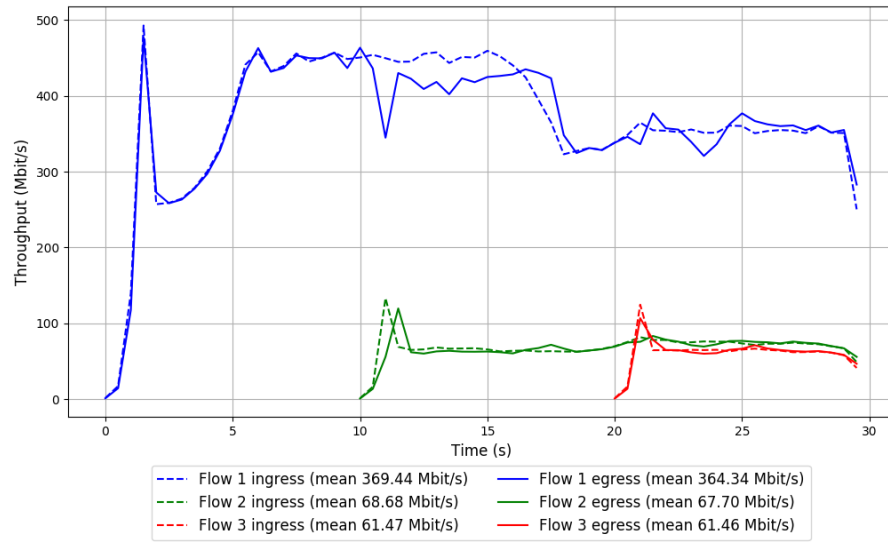
-- Flow 3:

Average throughput: 61.46 Mbit/s

95th percentile per-packet one-way delay: 142.342 ms

Loss rate: 0.01%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2017-12-12 07:43:03

End at: 2017-12-12 07:43:33

Below is generated by plot.py at 2017-12-12 10:44:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 478.88 Mbit/s

95th percentile per-packet one-way delay: 221.218 ms

Loss rate: 3.47%

-- Flow 1:

Average throughput: 446.92 Mbit/s

95th percentile per-packet one-way delay: 221.797 ms

Loss rate: 3.41%

-- Flow 2:

Average throughput: 33.38 Mbit/s

95th percentile per-packet one-way delay: 208.816 ms

Loss rate: 3.30%

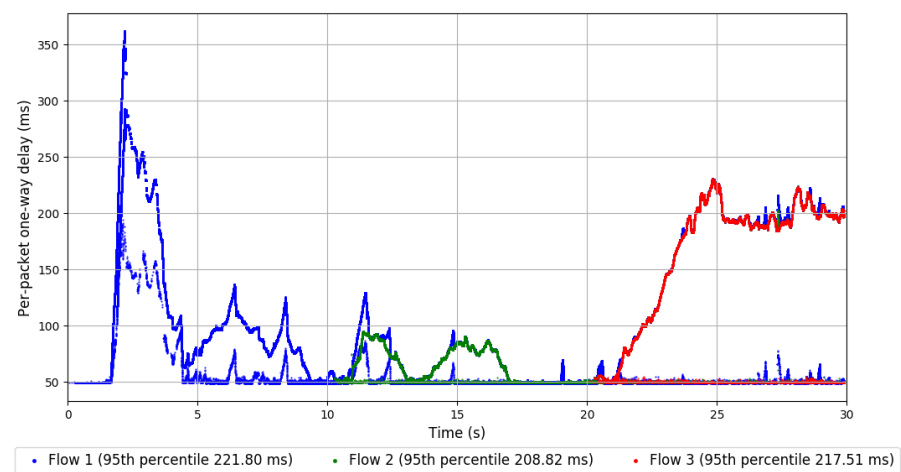
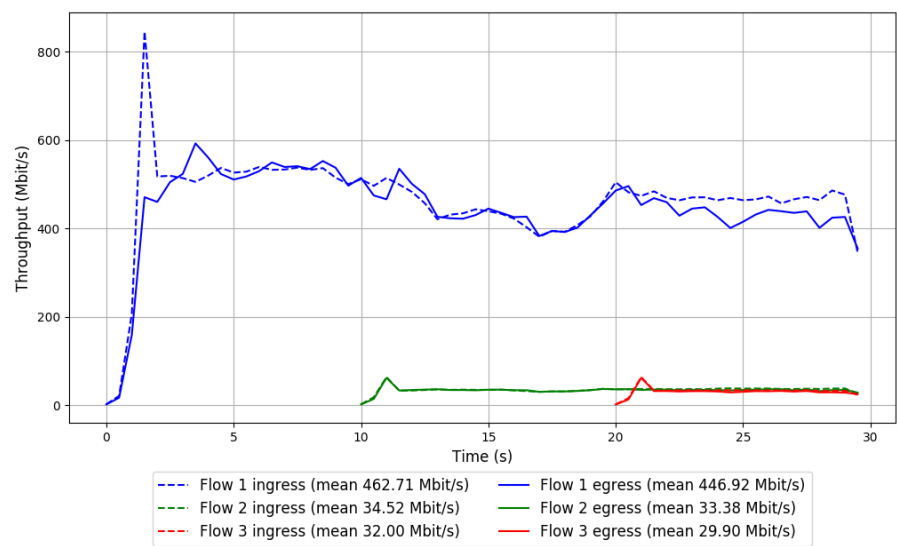
-- Flow 3:

Average throughput: 29.90 Mbit/s

95th percentile per-packet one-way delay: 217.507 ms

Loss rate: 6.51%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2017-12-12 07:55:10

End at: 2017-12-12 07:55:40

Below is generated by plot.py at 2017-12-12 10:45:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 503.54 Mbit/s

95th percentile per-packet one-way delay: 206.675 ms

Loss rate: 1.77%

-- Flow 1:

Average throughput: 453.40 Mbit/s

95th percentile per-packet one-way delay: 206.245 ms

Loss rate: 1.71%

-- Flow 2:

Average throughput: 61.69 Mbit/s

95th percentile per-packet one-way delay: 207.570 ms

Loss rate: 1.84%

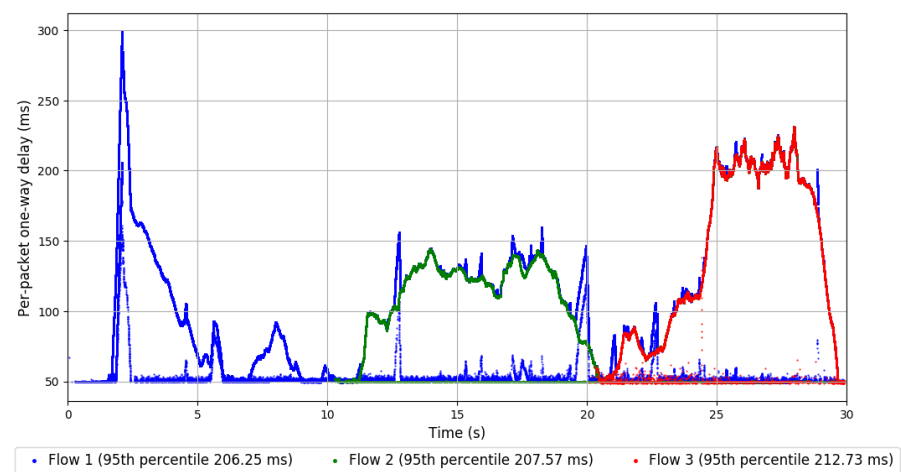
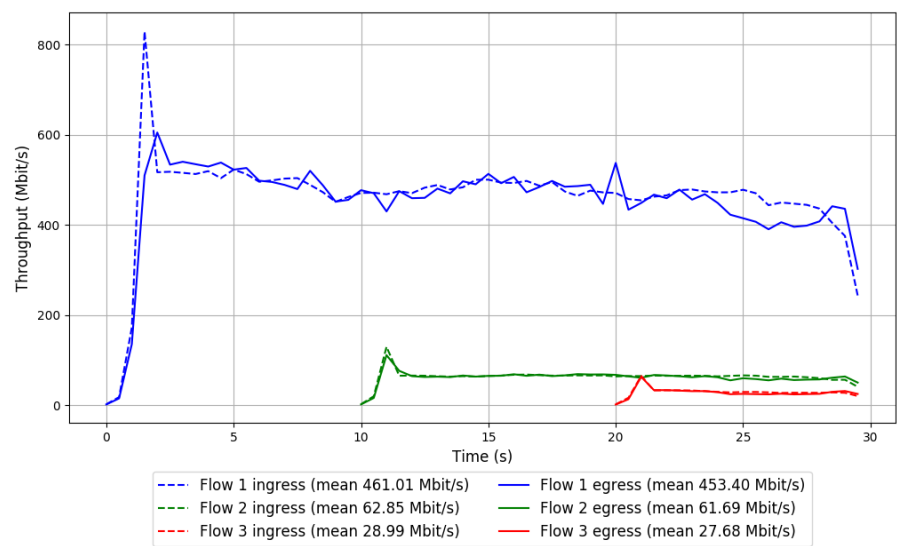
-- Flow 3:

Average throughput: 27.68 Mbit/s

95th percentile per-packet one-way delay: 212.732 ms

Loss rate: 4.52%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2017-12-12 08:07:16

End at: 2017-12-12 08:07:46

Below is generated by plot.py at 2017-12-12 10:45:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 488.65 Mbit/s

95th percentile per-packet one-way delay: 205.370 ms

Loss rate: 2.13%

-- Flow 1:

Average throughput: 447.35 Mbit/s

95th percentile per-packet one-way delay: 205.270 ms

Loss rate: 2.10%

-- Flow 2:

Average throughput: 61.10 Mbit/s

95th percentile per-packet one-way delay: 206.031 ms

Loss rate: 2.51%

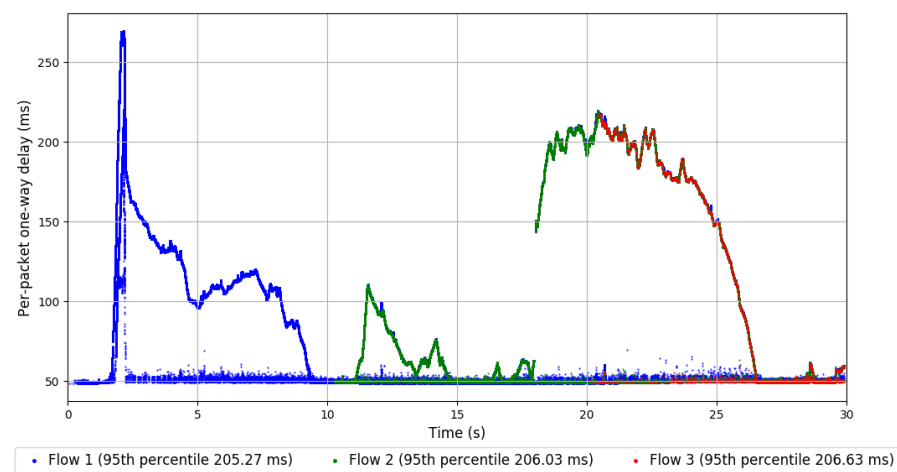
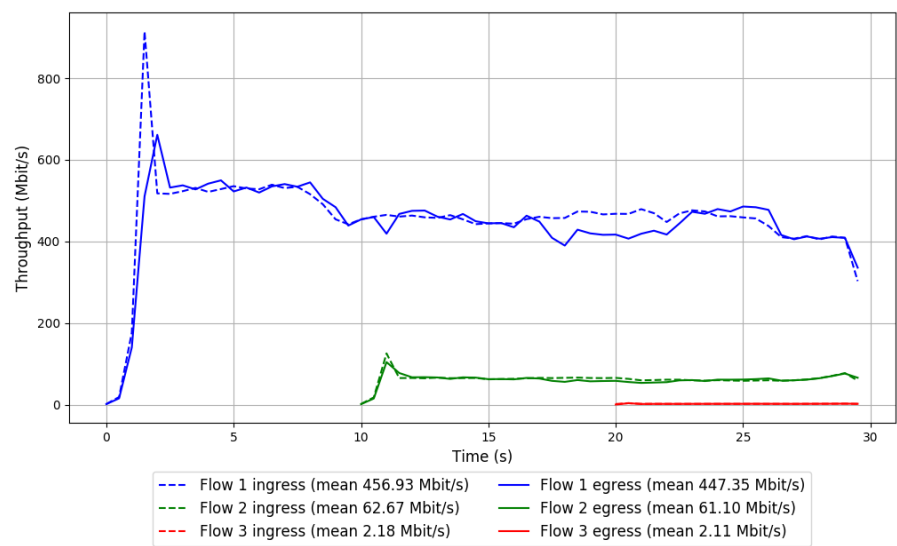
-- Flow 3:

Average throughput: 2.11 Mbit/s

95th percentile per-packet one-way delay: 206.634 ms

Loss rate: 3.47%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2017-12-12 08:19:11

End at: 2017-12-12 08:19:41

Below is generated by plot.py at 2017-12-12 10:46:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 470.15 Mbit/s

95th percentile per-packet one-way delay: 277.782 ms

Loss rate: 3.34%

-- Flow 1:

Average throughput: 427.19 Mbit/s

95th percentile per-packet one-way delay: 283.590 ms

Loss rate: 3.43%

-- Flow 2:

Average throughput: 62.56 Mbit/s

95th percentile per-packet one-way delay: 222.770 ms

Loss rate: 2.37%

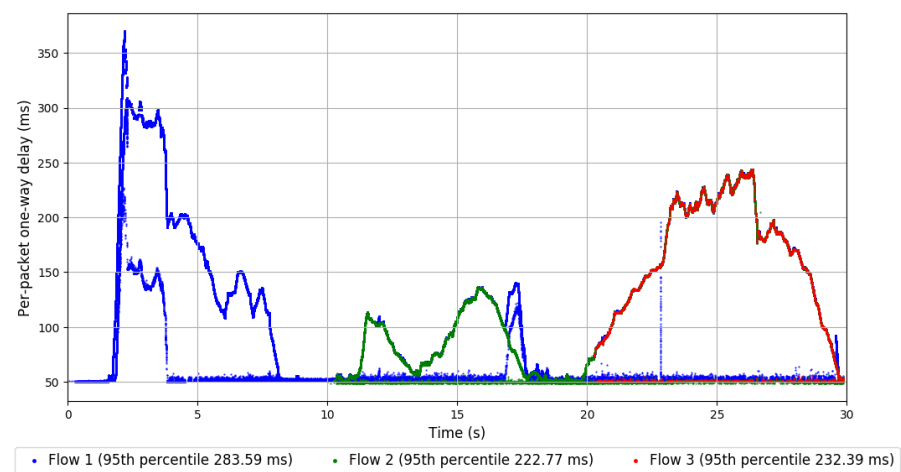
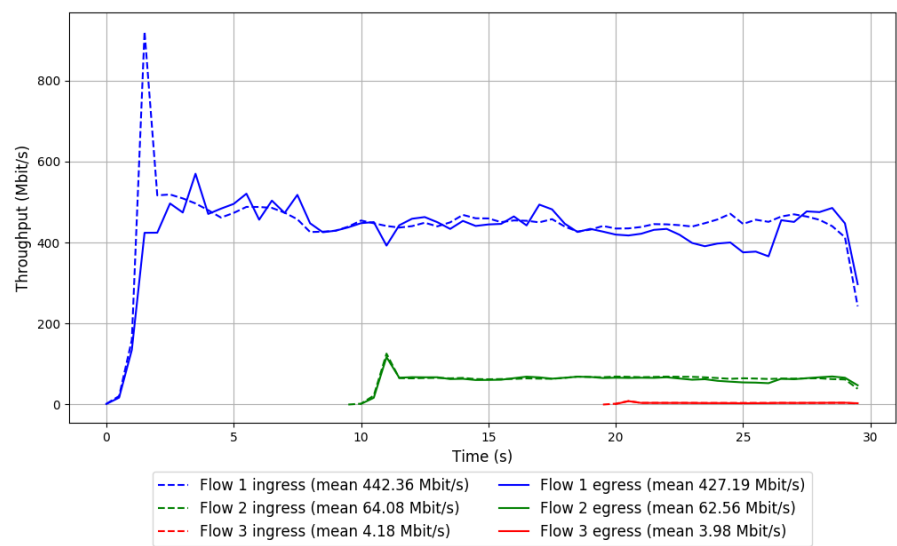
-- Flow 3:

Average throughput: 3.98 Mbit/s

95th percentile per-packet one-way delay: 232.392 ms

Loss rate: 4.87%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2017-12-12 08:31:25

End at: 2017-12-12 08:31:55

Below is generated by plot.py at 2017-12-12 10:47:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 495.70 Mbit/s

95th percentile per-packet one-way delay: 191.254 ms

Loss rate: 2.73%

-- Flow 1:

Average throughput: 437.16 Mbit/s

95th percentile per-packet one-way delay: 193.196 ms

Loss rate: 2.70%

-- Flow 2:

Average throughput: 57.83 Mbit/s

95th percentile per-packet one-way delay: 183.442 ms

Loss rate: 2.12%

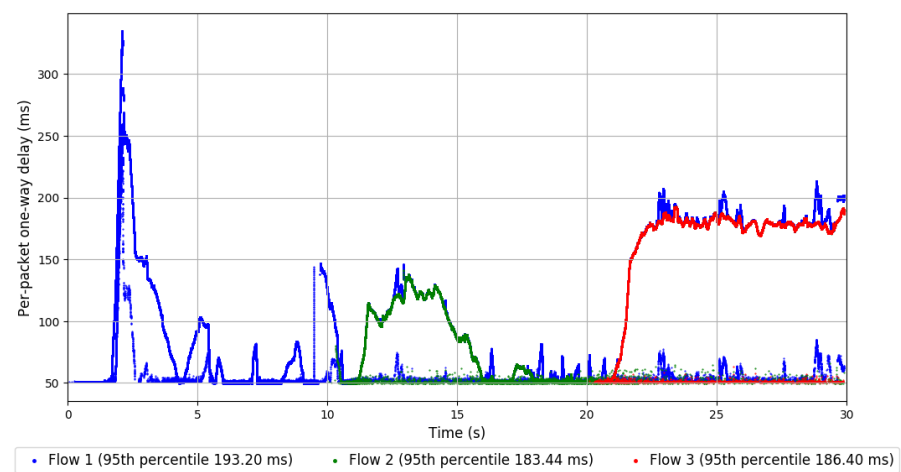
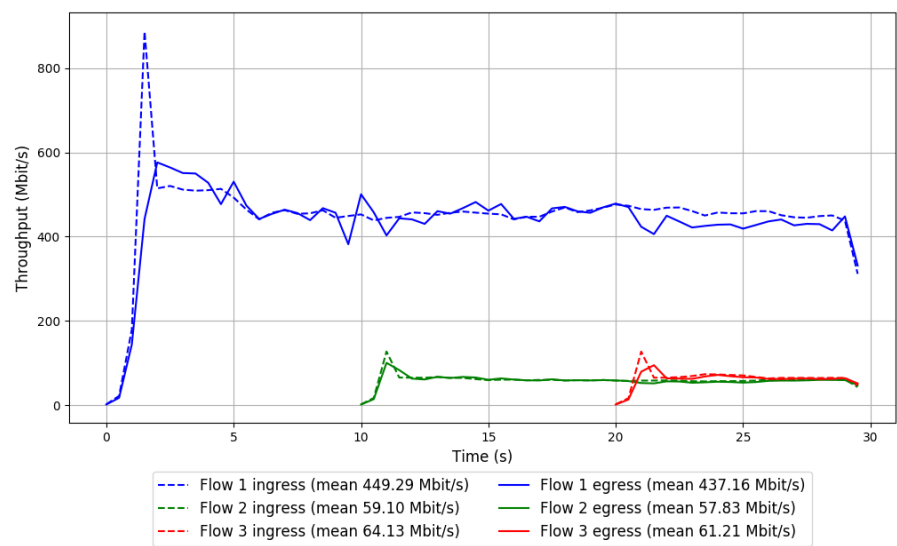
-- Flow 3:

Average throughput: 61.21 Mbit/s

95th percentile per-packet one-way delay: 186.397 ms

Loss rate: 4.54%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2017-12-12 08:43:28

End at: 2017-12-12 08:43:59

Below is generated by plot.py at 2017-12-12 10:52:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 493.76 Mbit/s

95th percentile per-packet one-way delay: 199.054 ms

Loss rate: 1.29%

-- Flow 1:

Average throughput: 451.05 Mbit/s

95th percentile per-packet one-way delay: 199.814 ms

Loss rate: 1.38%

-- Flow 2:

Average throughput: 62.17 Mbit/s

95th percentile per-packet one-way delay: 98.804 ms

Loss rate: 0.26%

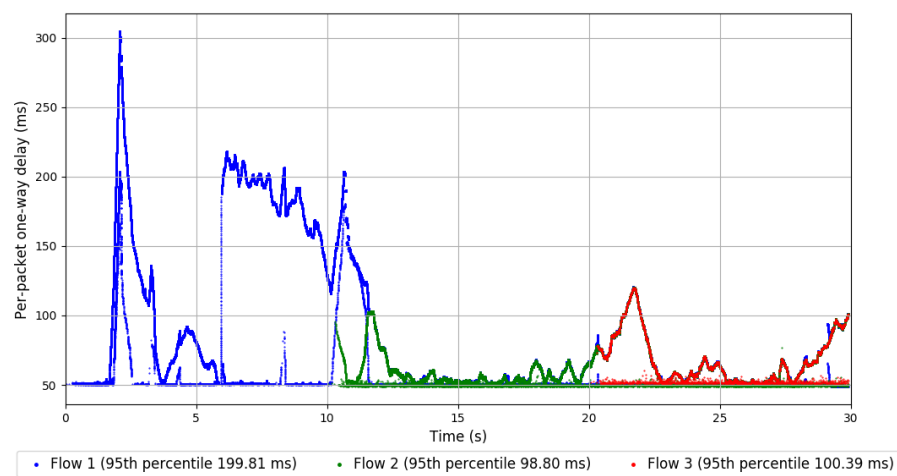
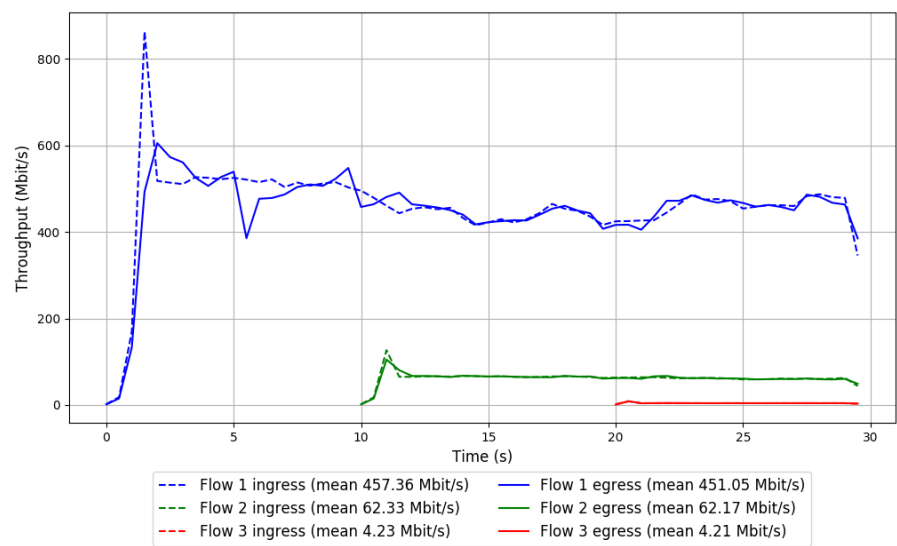
-- Flow 3:

Average throughput: 4.21 Mbit/s

95th percentile per-packet one-way delay: 100.386 ms

Loss rate: 0.49%

Run 9: Report of PCC — Data Link

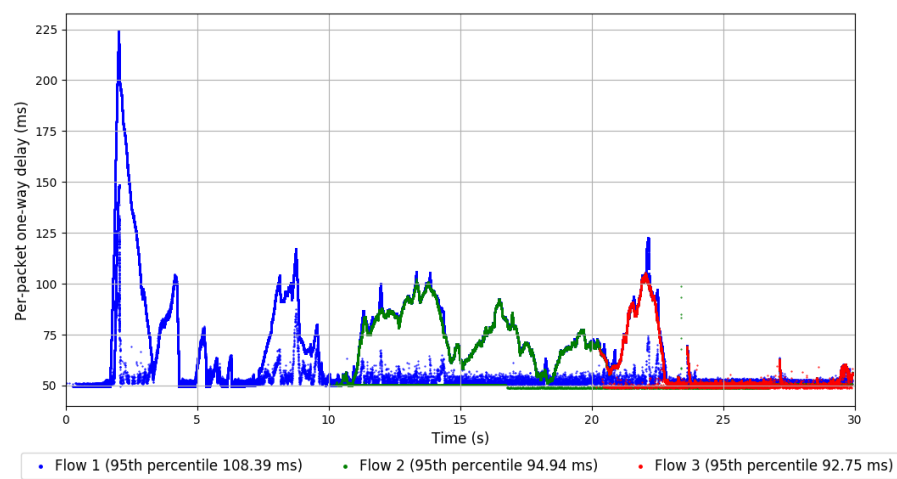
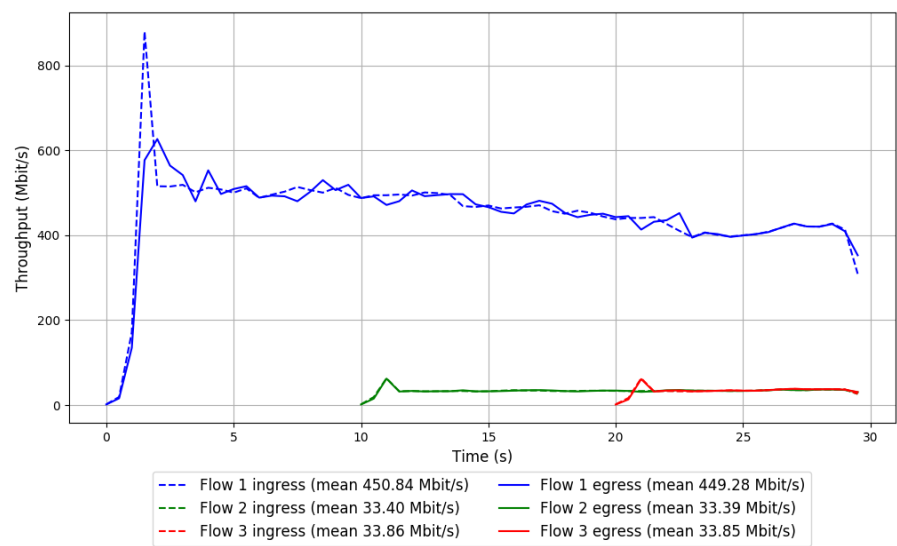


```
Run 10: Statistics of PCC

Start at: 2017-12-12 08:55:41
End at: 2017-12-12 08:56:11

# Below is generated by plot.py at 2017-12-12 10:53:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 482.60 Mbit/s
95th percentile per-packet one-way delay: 104.825 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 449.28 Mbit/s
95th percentile per-packet one-way delay: 108.394 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 33.39 Mbit/s
95th percentile per-packet one-way delay: 94.936 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 33.85 Mbit/s
95th percentile per-packet one-way delay: 92.752 ms
Loss rate: 0.04%
```

Run 10: Report of PCC — Data Link

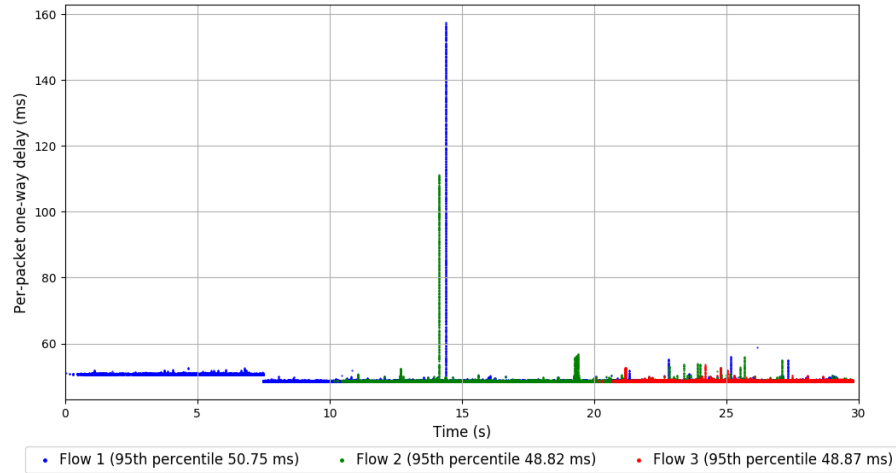
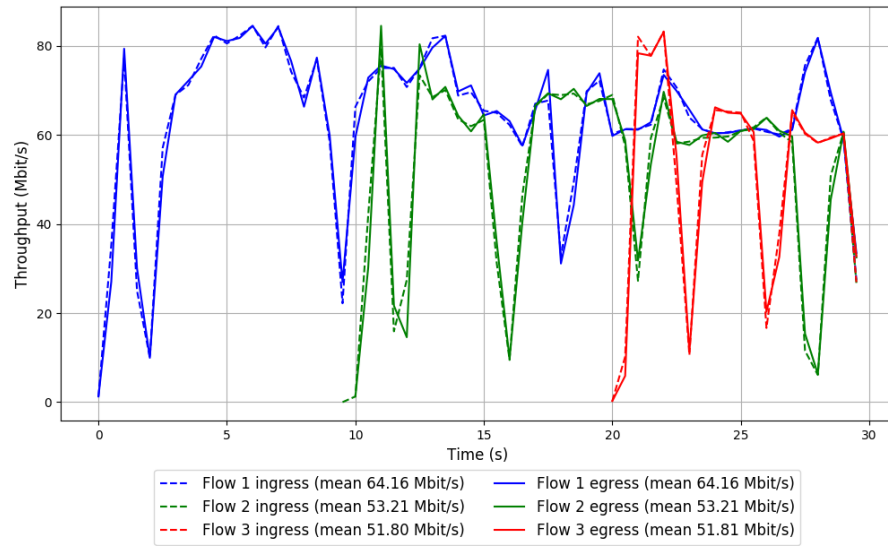


```
Run 1: Statistics of QUIC Cubic

Start at: 2017-12-12 06:56:20
End at: 2017-12-12 06:56:50

# Below is generated by plot.py at 2017-12-12 10:53:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 116.42 Mbit/s
95th percentile per-packet one-way delay: 50.716 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 64.16 Mbit/s
95th percentile per-packet one-way delay: 50.749 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 53.21 Mbit/s
95th percentile per-packet one-way delay: 48.820 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 51.81 Mbit/s
95th percentile per-packet one-way delay: 48.869 ms
Loss rate: 0.00%
```


Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2017-12-12 07:08:26

End at: 2017-12-12 07:08:56

Below is generated by plot.py at 2017-12-12 10:53:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 122.38 Mbit/s

95th percentile per-packet one-way delay: 50.808 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 63.32 Mbit/s

95th percentile per-packet one-way delay: 48.873 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 60.22 Mbit/s

95th percentile per-packet one-way delay: 50.924 ms

Loss rate: 0.00%

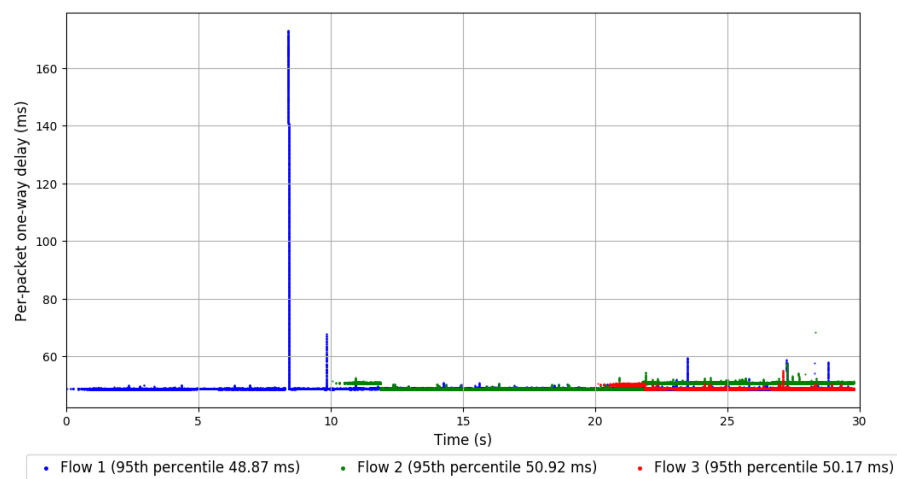
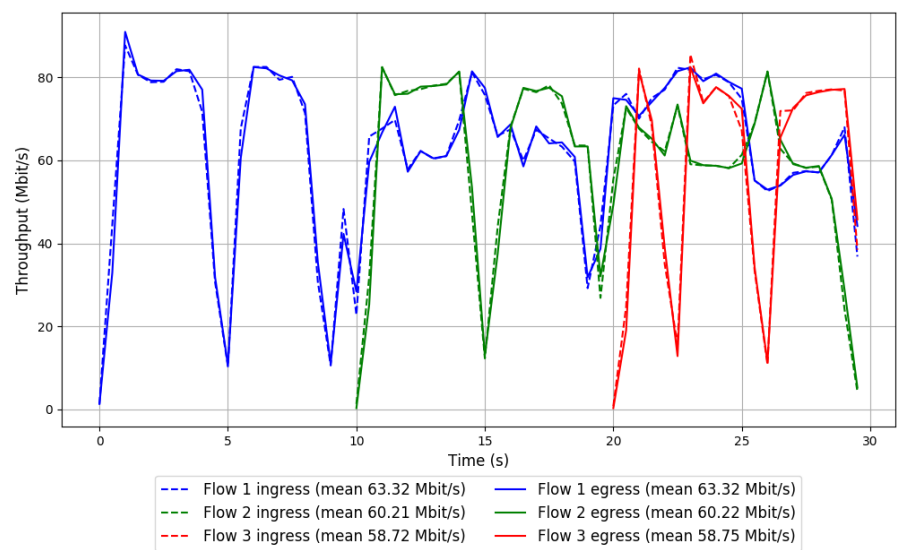
-- Flow 3:

Average throughput: 58.75 Mbit/s

95th percentile per-packet one-way delay: 50.171 ms

Loss rate: 0.00%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2017-12-12 07:20:33

End at: 2017-12-12 07:21:03

Below is generated by plot.py at 2017-12-12 10:53:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 117.28 Mbit/s

95th percentile per-packet one-way delay: 49.827 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 63.36 Mbit/s

95th percentile per-packet one-way delay: 49.862 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 53.98 Mbit/s

95th percentile per-packet one-way delay: 49.507 ms

Loss rate: 0.00%

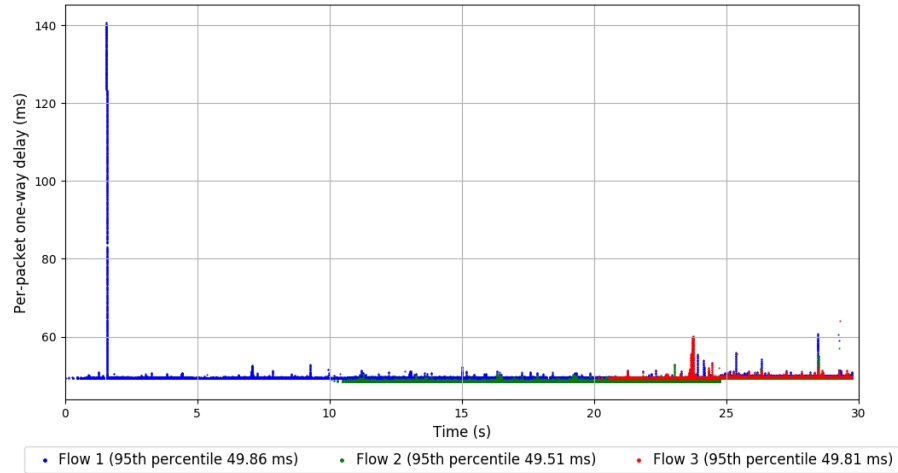
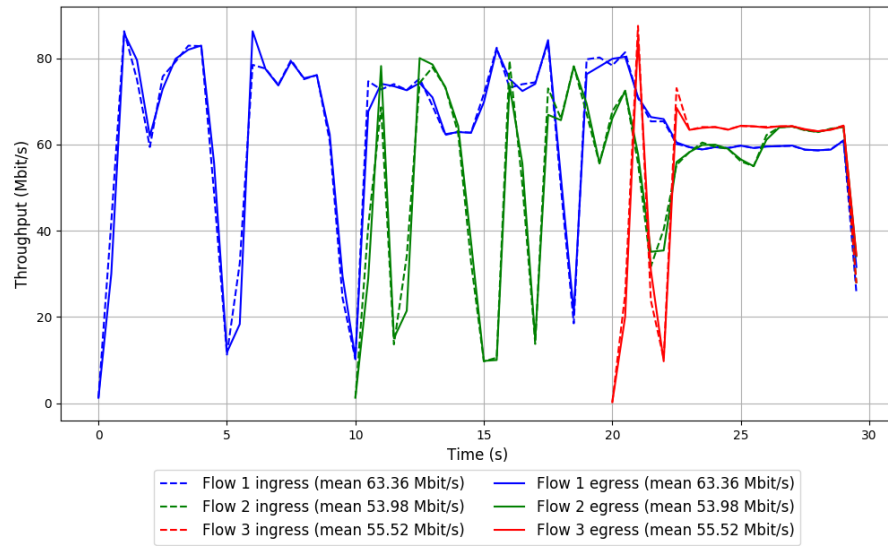
-- Flow 3:

Average throughput: 55.52 Mbit/s

95th percentile per-packet one-way delay: 49.812 ms

Loss rate: 0.00%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2017-12-12 07:32:30

End at: 2017-12-12 07:33:00

Below is generated by plot.py at 2017-12-12 10:53:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 117.02 Mbit/s

95th percentile per-packet one-way delay: 50.672 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 60.26 Mbit/s

95th percentile per-packet one-way delay: 50.716 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 58.28 Mbit/s

95th percentile per-packet one-way delay: 49.741 ms

Loss rate: 0.00%

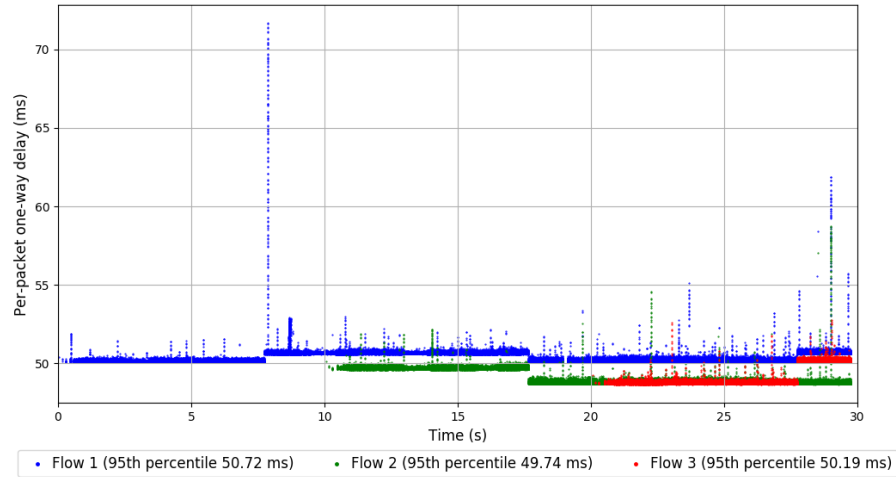
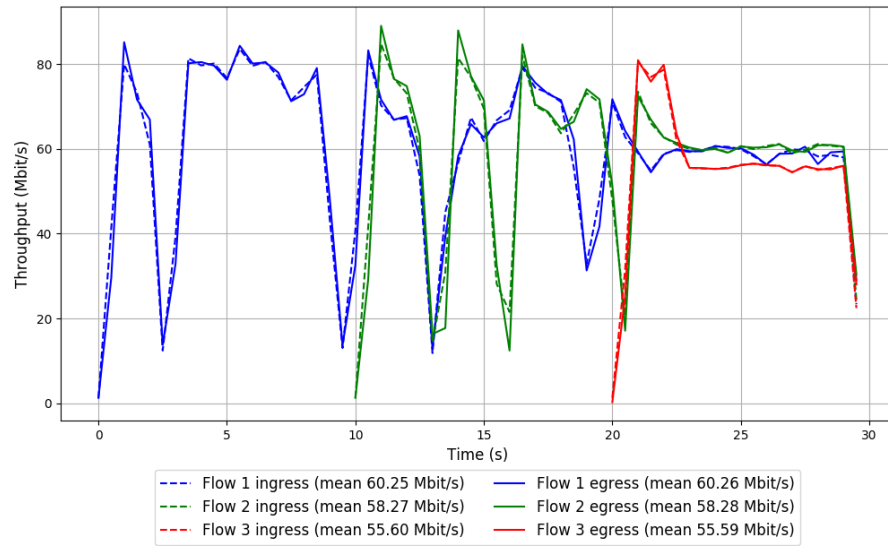
-- Flow 3:

Average throughput: 55.59 Mbit/s

95th percentile per-packet one-way delay: 50.194 ms

Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2017-12-12 07:44:42

End at: 2017-12-12 07:45:12

Below is generated by plot.py at 2017-12-12 10:53:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 116.58 Mbit/s

95th percentile per-packet one-way delay: 49.816 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 60.69 Mbit/s

95th percentile per-packet one-way delay: 49.856 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 59.33 Mbit/s

95th percentile per-packet one-way delay: 49.511 ms

Loss rate: 0.00%

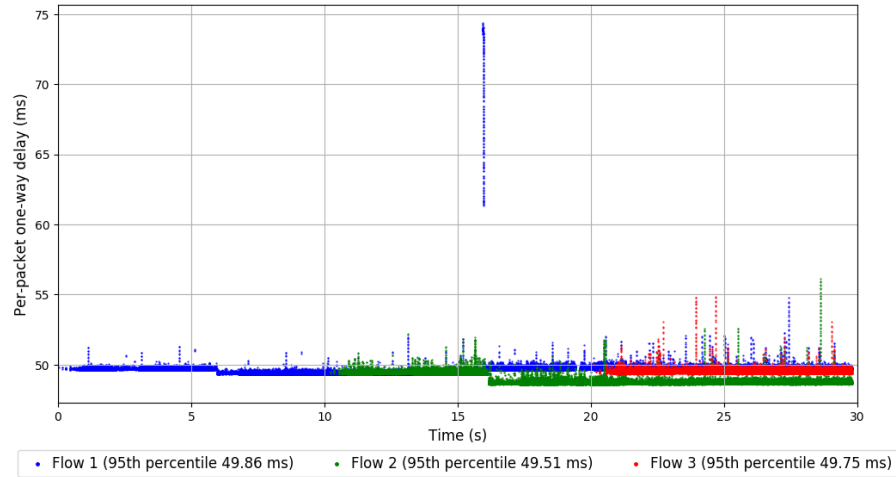
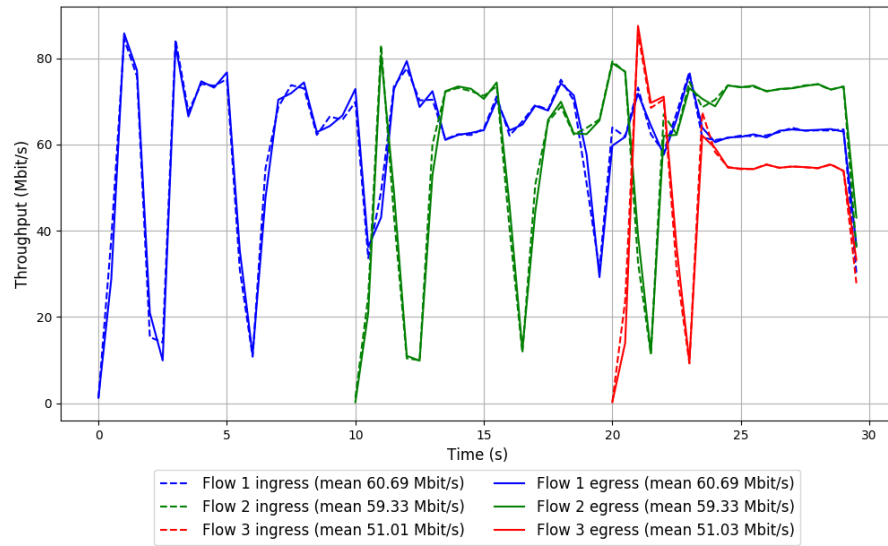
-- Flow 3:

Average throughput: 51.03 Mbit/s

95th percentile per-packet one-way delay: 49.749 ms

Loss rate: 0.00%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2017-12-12 07:56:50

End at: 2017-12-12 07:57:20

Below is generated by plot.py at 2017-12-12 10:53:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 118.66 Mbit/s

95th percentile per-packet one-way delay: 50.680 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 67.31 Mbit/s

95th percentile per-packet one-way delay: 50.708 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 54.34 Mbit/s

95th percentile per-packet one-way delay: 50.631 ms

Loss rate: 0.00%

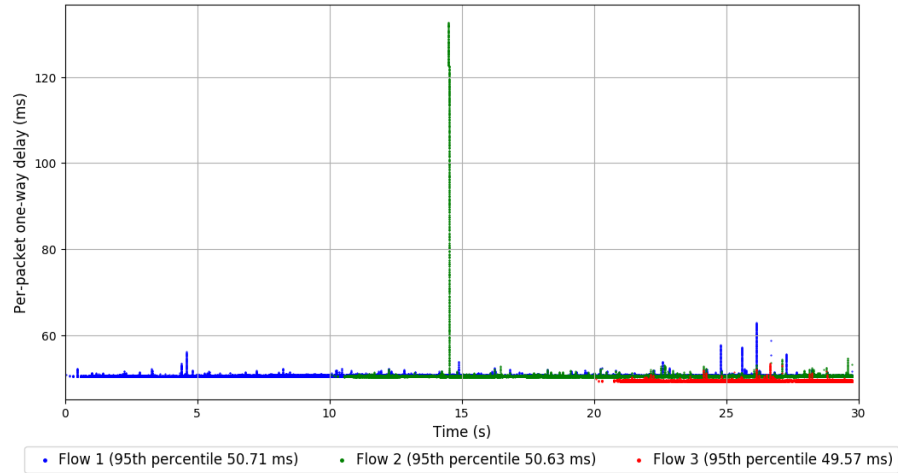
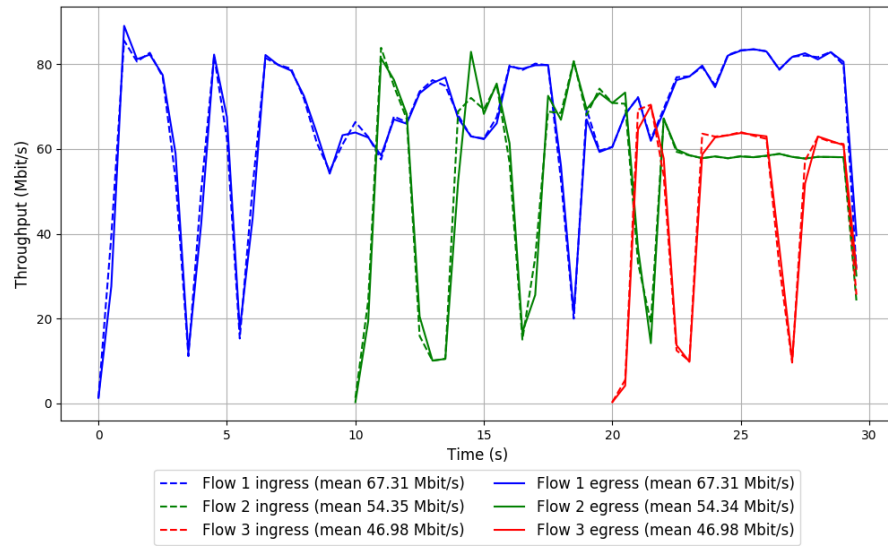
-- Flow 3:

Average throughput: 46.98 Mbit/s

95th percentile per-packet one-way delay: 49.572 ms

Loss rate: 0.00%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2017-12-12 08:08:56

End at: 2017-12-12 08:09:26

Below is generated by plot.py at 2017-12-12 10:53:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 119.09 Mbit/s

95th percentile per-packet one-way delay: 50.596 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 63.03 Mbit/s

95th percentile per-packet one-way delay: 49.828 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 59.21 Mbit/s

95th percentile per-packet one-way delay: 50.673 ms

Loss rate: 0.00%

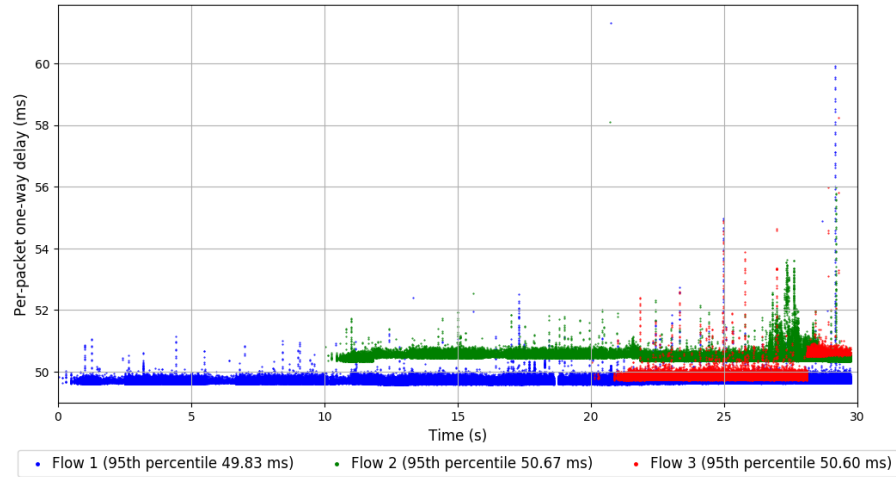
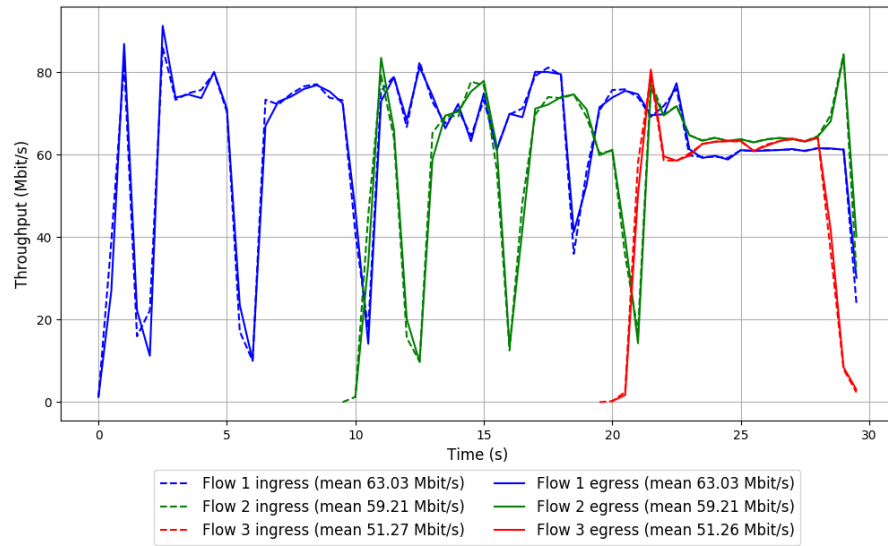
-- Flow 3:

Average throughput: 51.26 Mbit/s

95th percentile per-packet one-way delay: 50.603 ms

Loss rate: 0.00%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2017-12-12 08:20:50

End at: 2017-12-12 08:21:20

Below is generated by plot.py at 2017-12-12 10:53:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 109.71 Mbit/s

95th percentile per-packet one-way delay: 50.312 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 56.52 Mbit/s

95th percentile per-packet one-way delay: 50.326 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 53.06 Mbit/s

95th percentile per-packet one-way delay: 50.334 ms

Loss rate: 0.00%

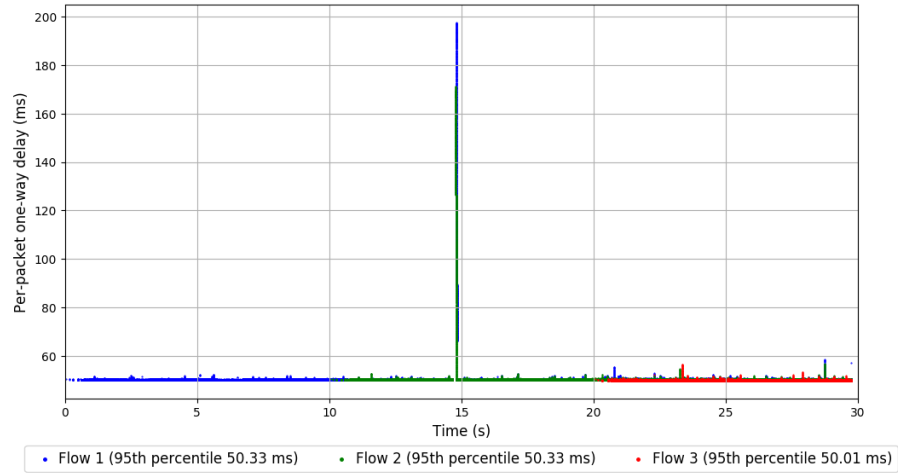
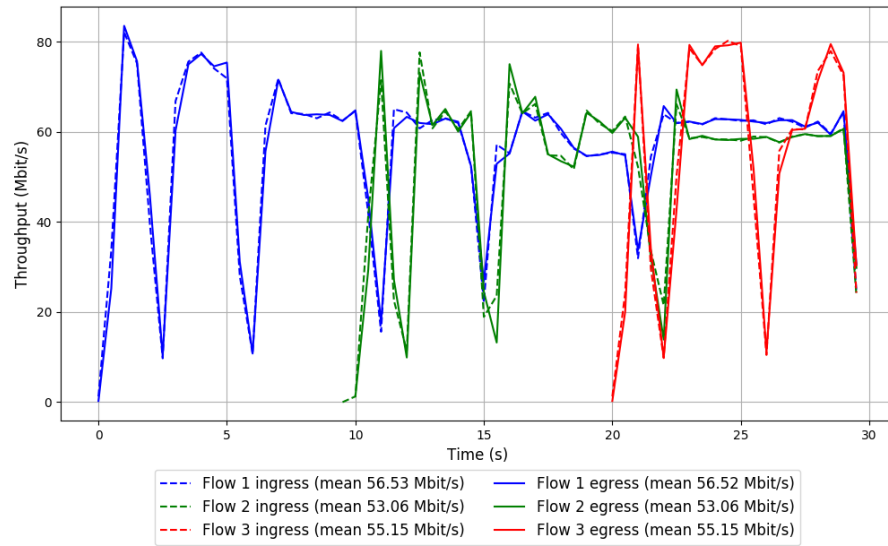
-- Flow 3:

Average throughput: 55.15 Mbit/s

95th percentile per-packet one-way delay: 50.007 ms

Loss rate: 0.00%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2017-12-12 08:33:04

End at: 2017-12-12 08:33:34

Below is generated by plot.py at 2017-12-12 10:53:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 111.78 Mbit/s

95th percentile per-packet one-way delay: 50.800 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 57.05 Mbit/s

95th percentile per-packet one-way delay: 50.224 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 57.32 Mbit/s

95th percentile per-packet one-way delay: 50.700 ms

Loss rate: 0.00%

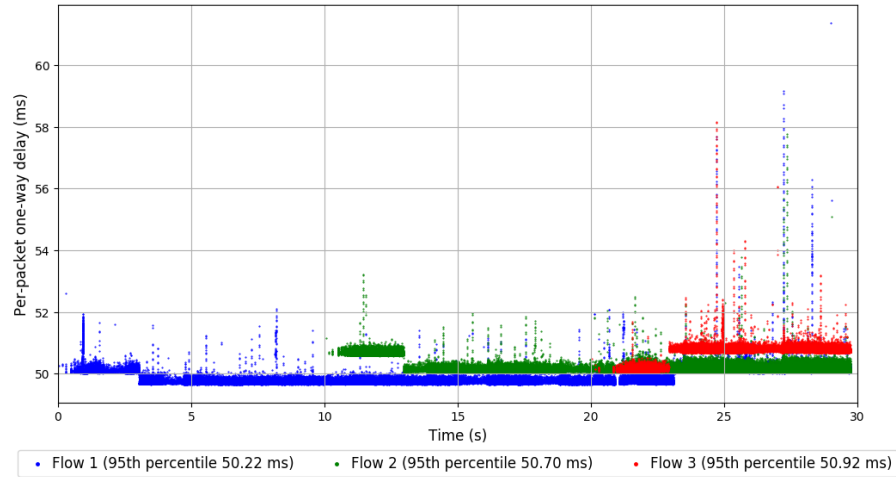
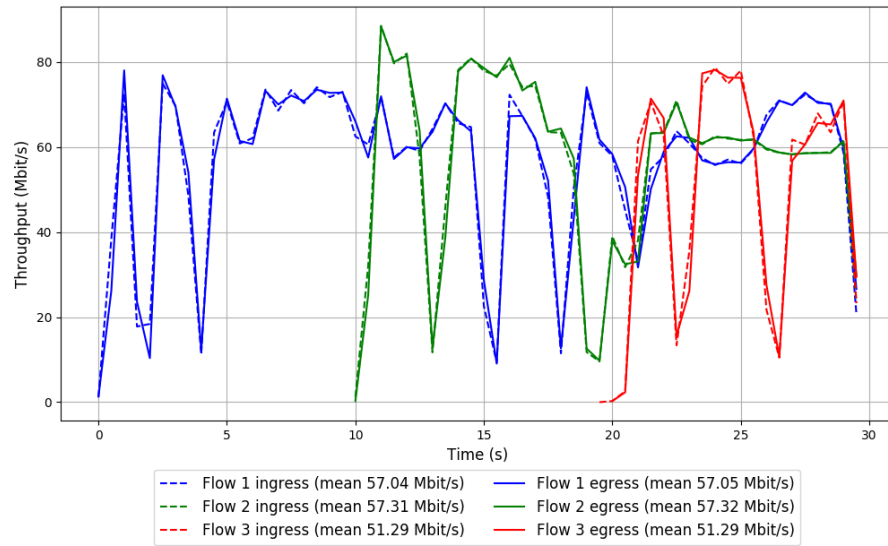
-- Flow 3:

Average throughput: 51.29 Mbit/s

95th percentile per-packet one-way delay: 50.924 ms

Loss rate: 0.00%

Run 9: Report of QUIC Cubic — Data Link

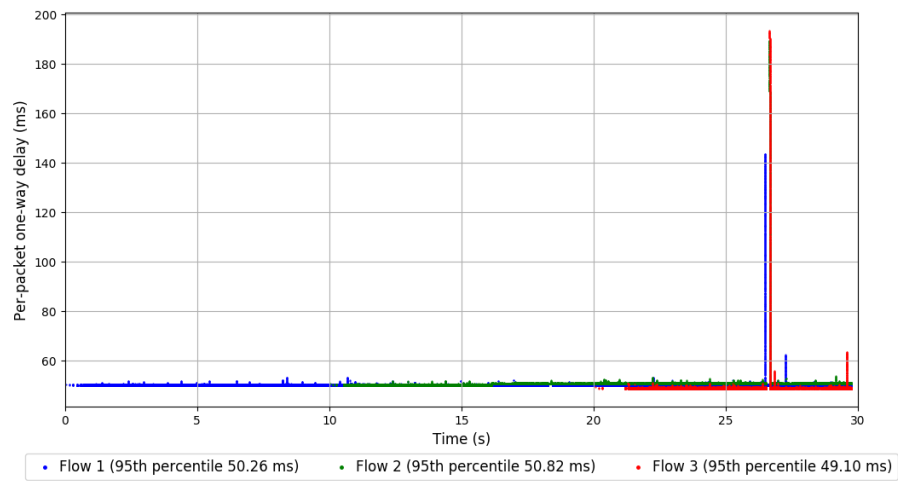
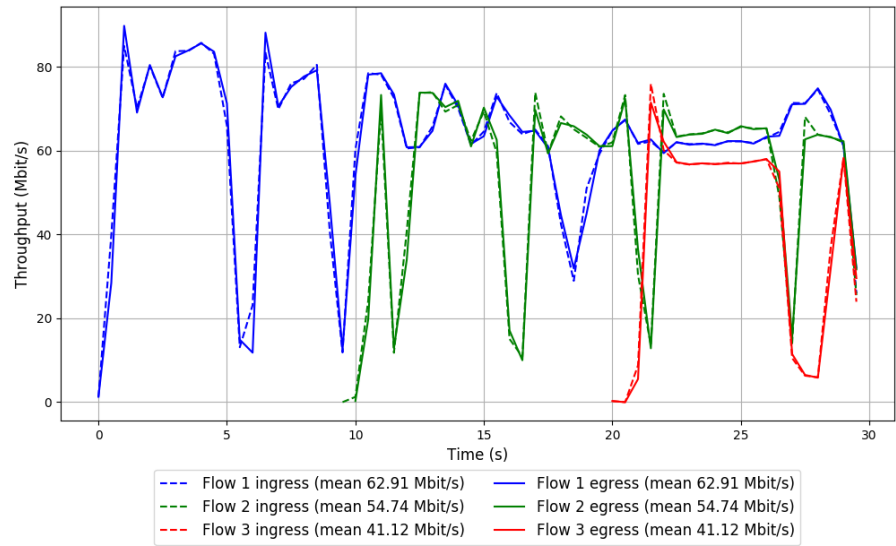


```
Run 10: Statistics of QUIC Cubic

Start at: 2017-12-12 08:45:08
End at: 2017-12-12 08:45:38

# Below is generated by plot.py at 2017-12-12 10:53:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 112.63 Mbit/s
95th percentile per-packet one-way delay: 50.735 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 62.91 Mbit/s
95th percentile per-packet one-way delay: 50.256 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 54.74 Mbit/s
95th percentile per-packet one-way delay: 50.821 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 41.12 Mbit/s
95th percentile per-packet one-way delay: 49.096 ms
Loss rate: 0.00%
```

Run 10: Report of QUIC Cubic — Data Link

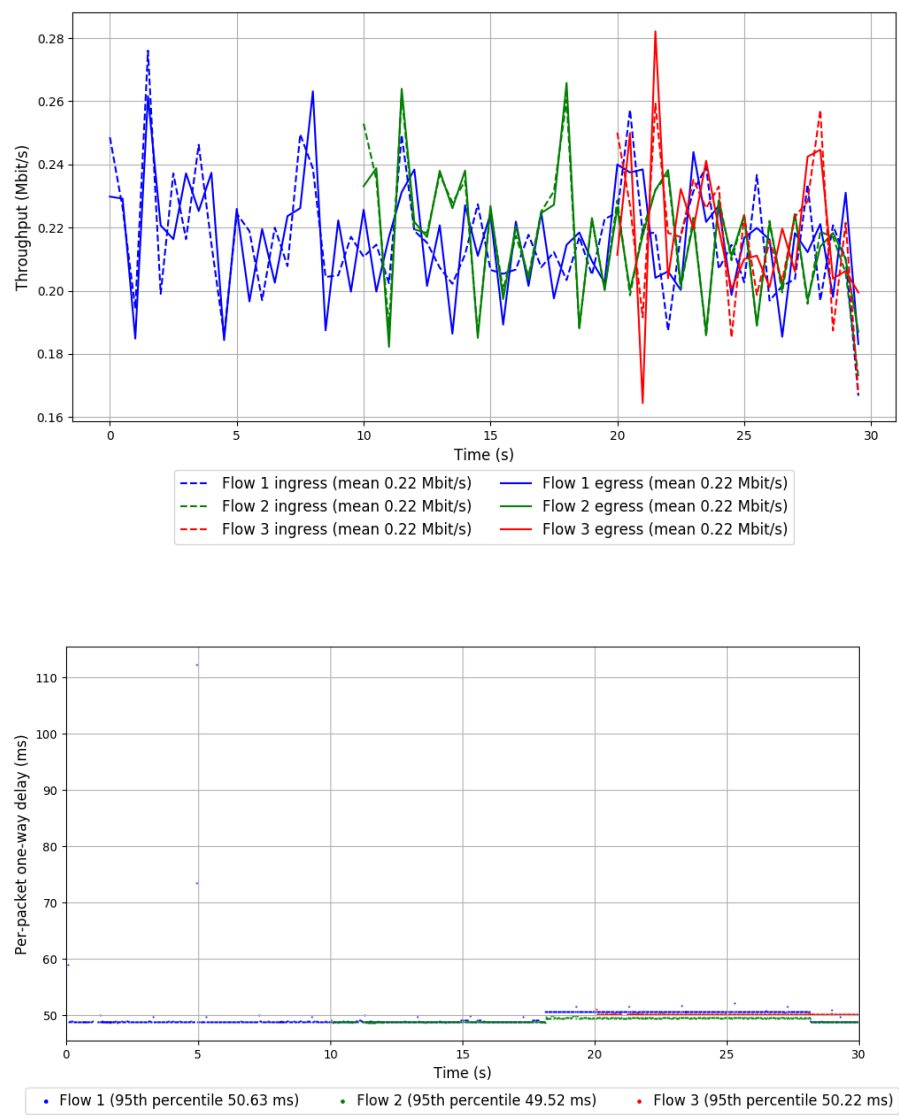


```
Run 1: Statistics of SCReAM

Start at: 2017-12-12 06:58:00
End at: 2017-12-12 06:58:30

# Below is generated by plot.py at 2017-12-12 10:53:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 50.612 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.628 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 49.522 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.215 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

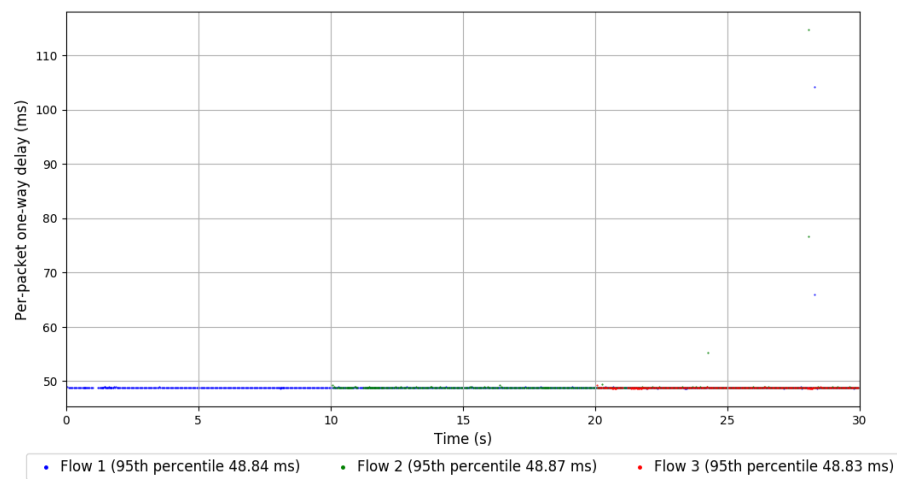
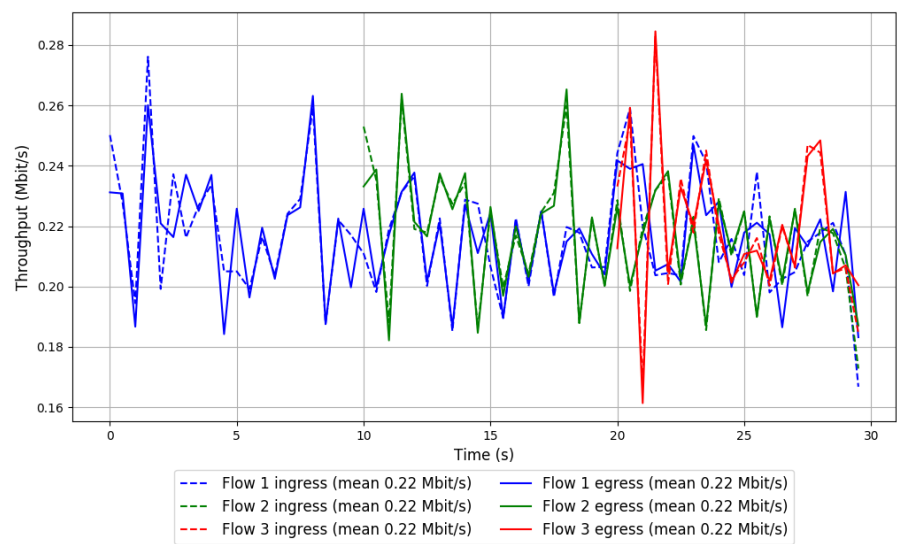


```
Run 2: Statistics of SReAM

Start at: 2017-12-12 07:10:06
End at: 2017-12-12 07:10:36

# Below is generated by plot.py at 2017-12-12 10:53:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 48.854 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 48.844 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 48.873 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 48.825 ms
Loss rate: 0.00%
```

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2017-12-12 07:22:09

End at: 2017-12-12 07:22:39

Below is generated by plot.py at 2017-12-12 10:53:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 50.737 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 49.604 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 49.911 ms

Loss rate: 0.00%

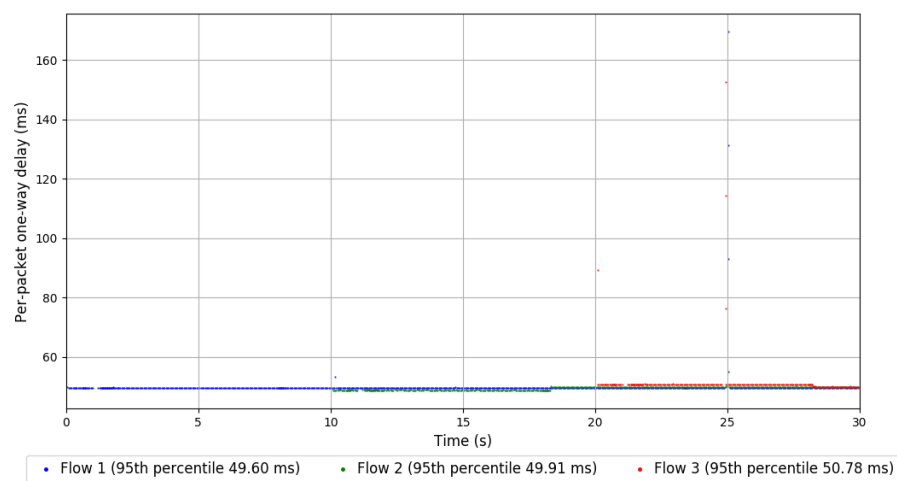
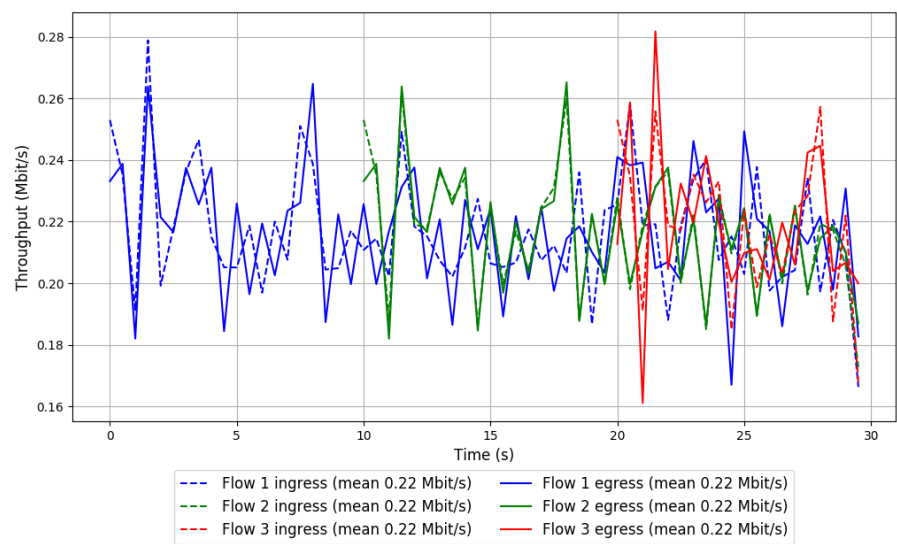
-- Flow 3:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link

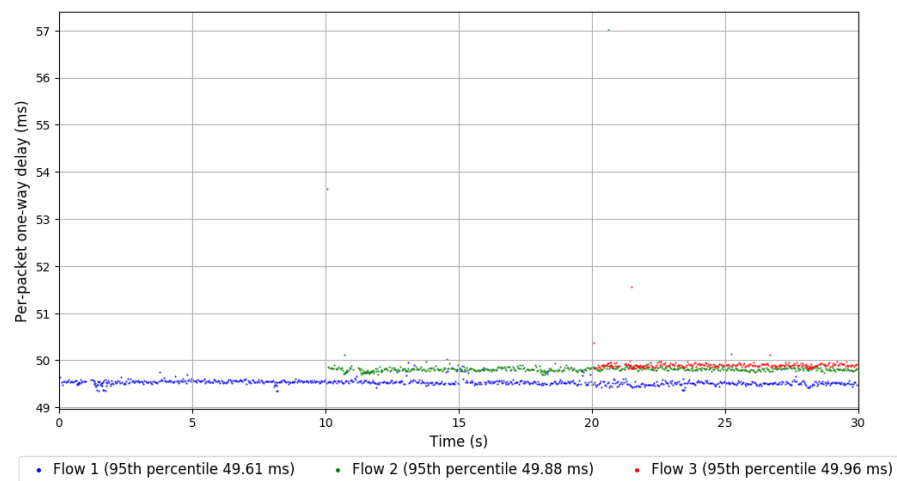
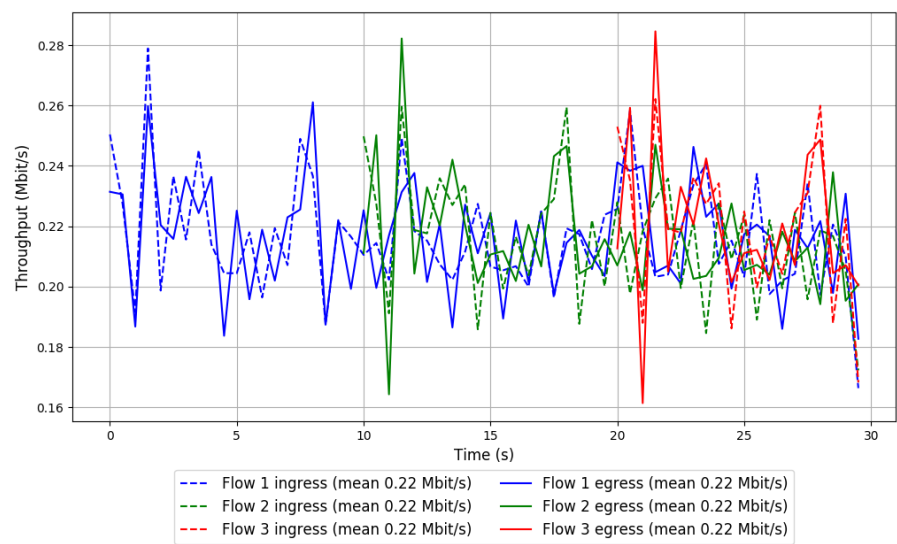


```
Run 4: Statistics of SCReAM

Start at: 2017-12-12 07:34:14
End at: 2017-12-12 07:34:44

# Below is generated by plot.py at 2017-12-12 10:53:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 49.916 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 49.607 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 49.881 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 49.960 ms
Loss rate: 0.00%
```

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SReAM

Start at: 2017-12-12 07:46:22

End at: 2017-12-12 07:46:52

Below is generated by plot.py at 2017-12-12 10:53:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 50.712 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 49.911 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 48.934 ms

Loss rate: 0.00%

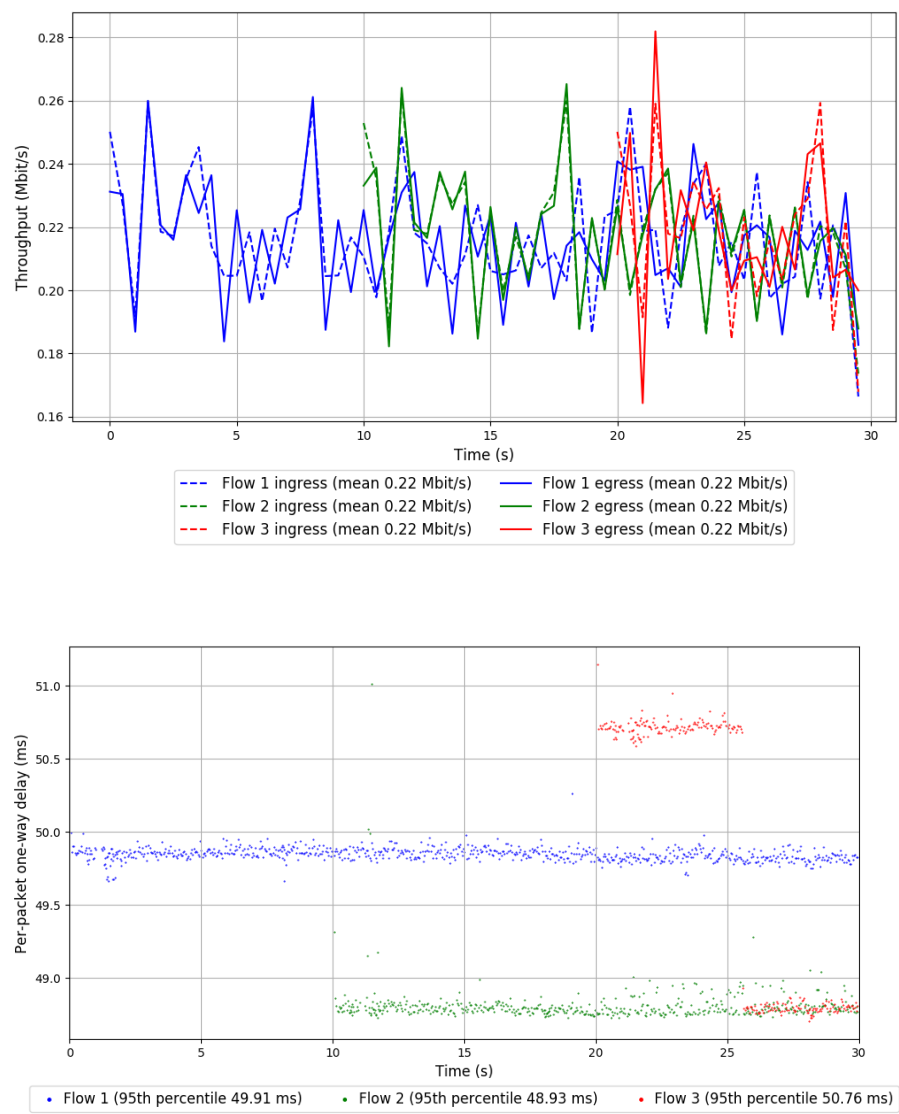
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.761 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link

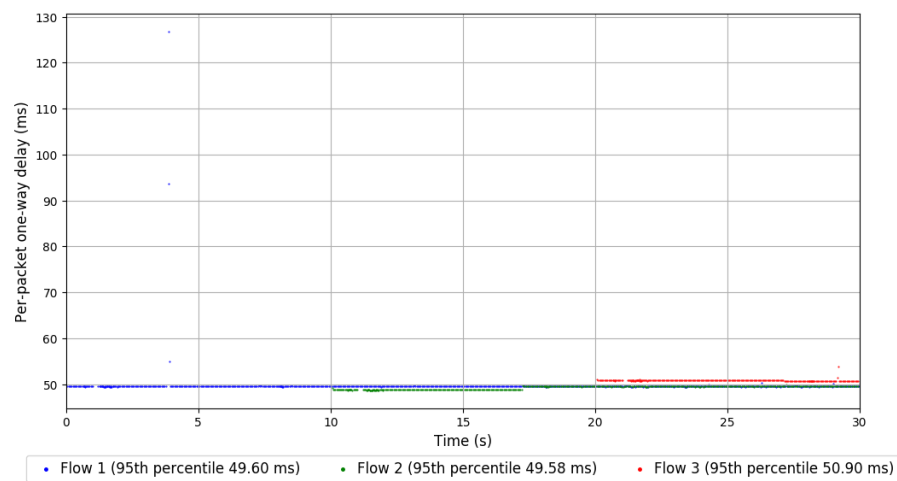
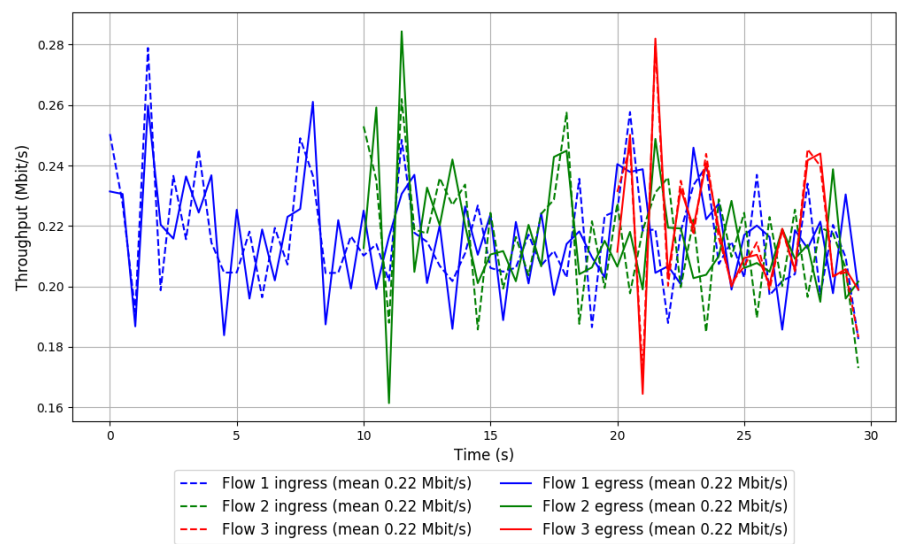


```
Run 6: Statistics of SCReAM

Start at: 2017-12-12 07:58:31
End at: 2017-12-12 07:59:01

# Below is generated by plot.py at 2017-12-12 10:53:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 50.836 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 49.602 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 49.579 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.899 ms
Loss rate: 0.00%
```

Run 6: Report of SReAM — Data Link

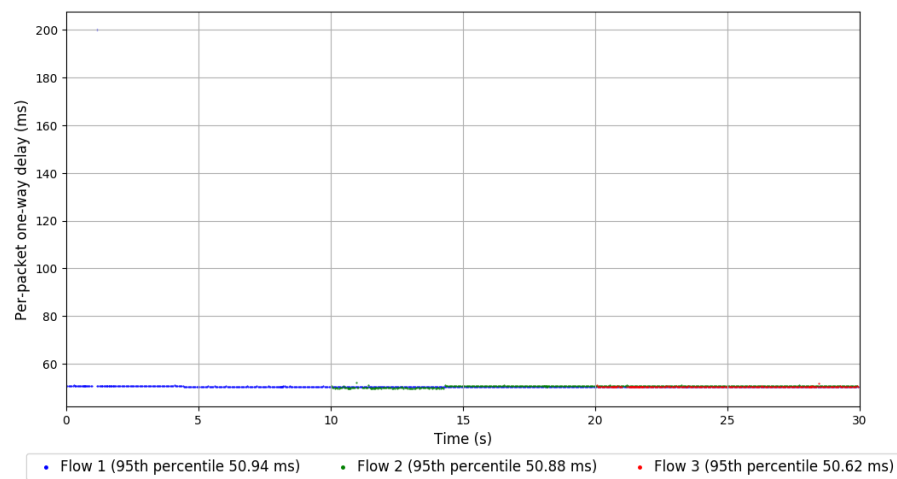
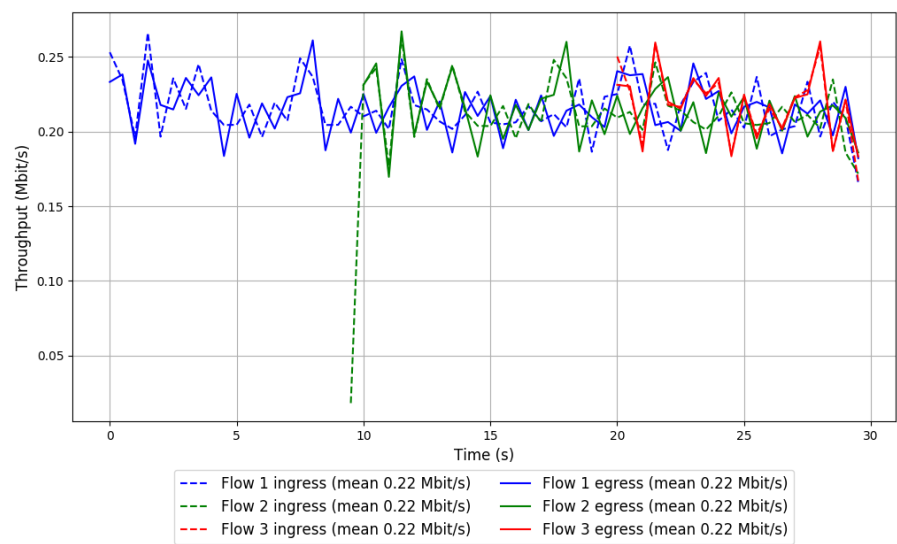


```
Run 7: Statistics of SCReAM

Start at: 2017-12-12 08:10:33
End at: 2017-12-12 08:11:03

# Below is generated by plot.py at 2017-12-12 10:53:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 50.929 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.942 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.881 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.622 ms
Loss rate: 0.00%
```


Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2017-12-12 08:22:27

End at: 2017-12-12 08:22:57

Below is generated by plot.py at 2017-12-12 10:53:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 50.913 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.808 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.942 ms

Loss rate: 0.00%

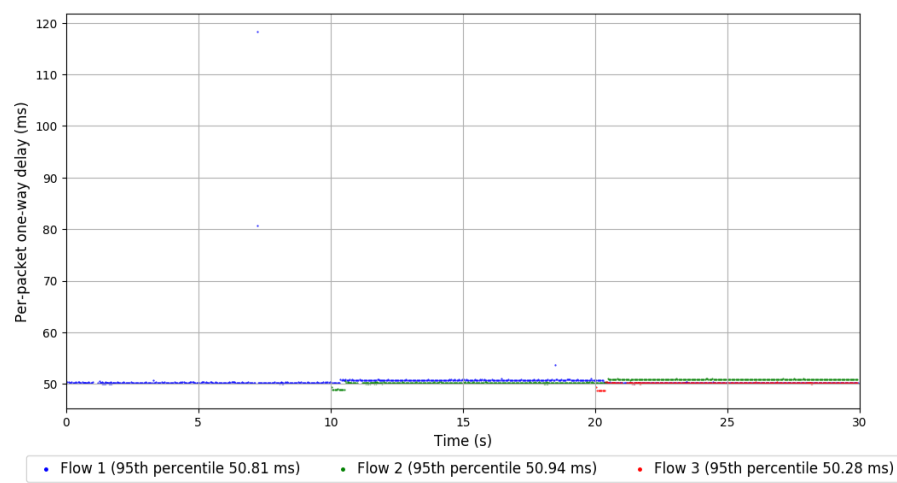
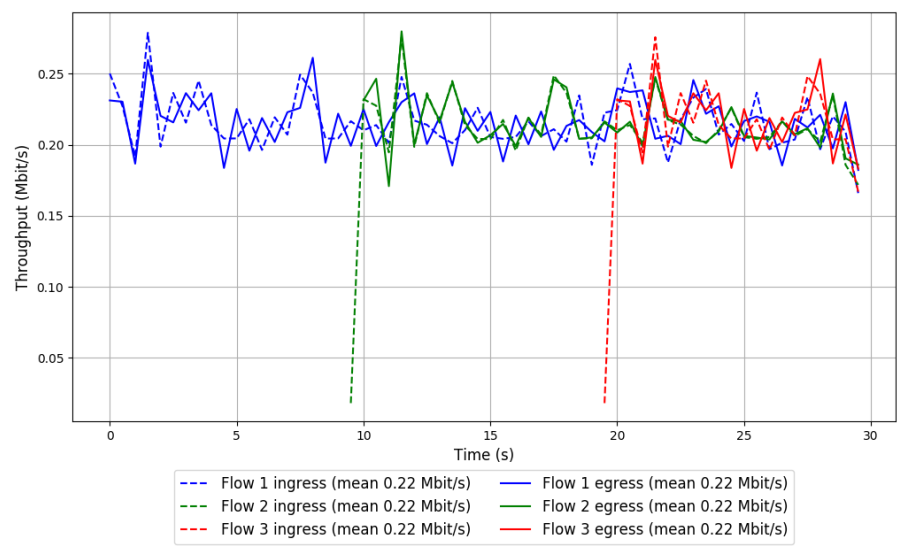
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.277 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SReAM

Start at: 2017-12-12 08:34:43

End at: 2017-12-12 08:35:13

Below is generated by plot.py at 2017-12-12 10:53:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 50.783 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 48.920 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.812 ms

Loss rate: 0.00%

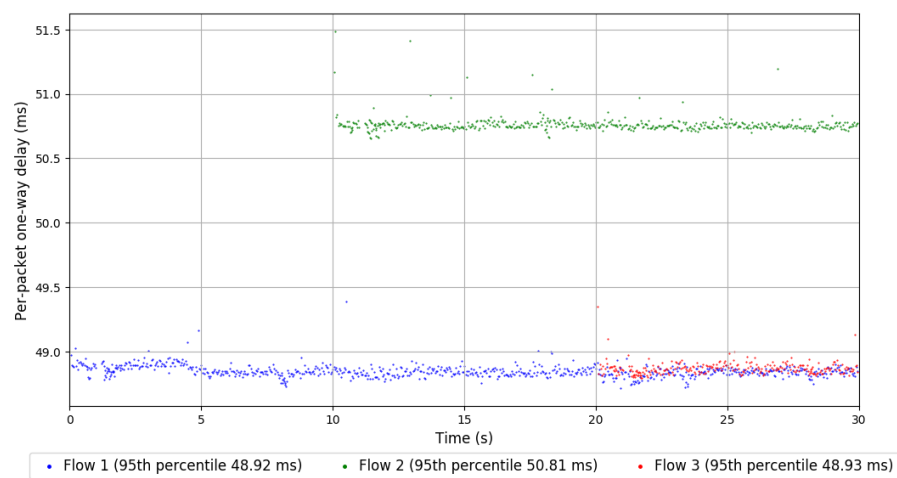
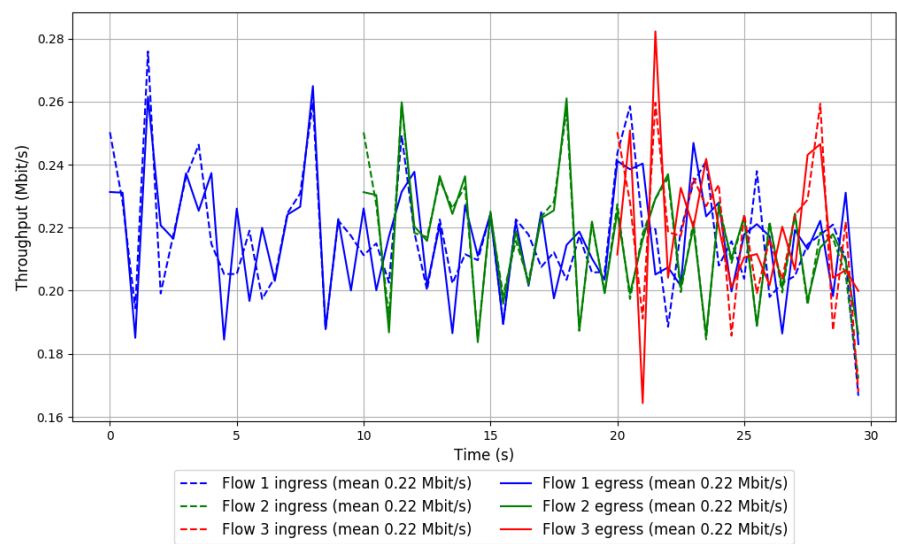
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 48.932 ms

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link

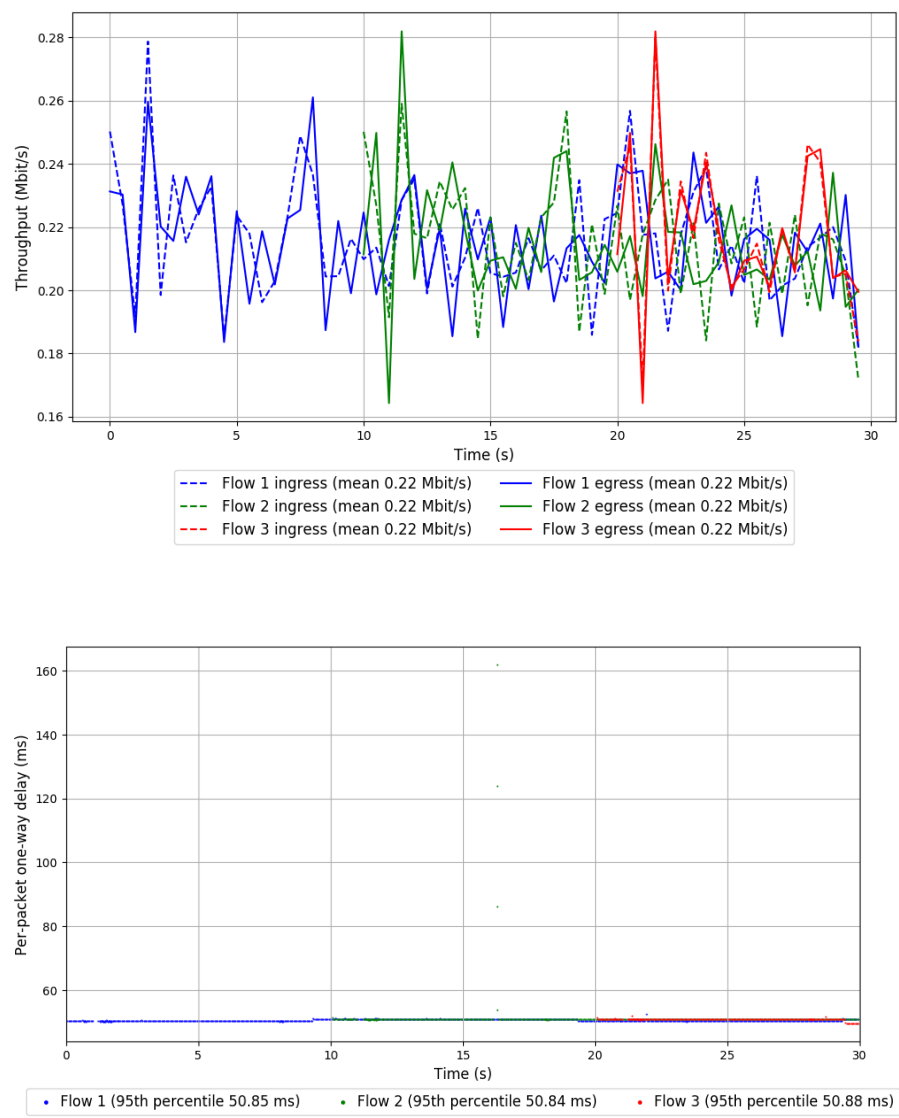


```
Run 10: Statistics of SReAM

Start at: 2017-12-12 08:46:48
End at: 2017-12-12 08:47:18

# Below is generated by plot.py at 2017-12-12 10:53:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 50.849 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.846 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.844 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.878 ms
Loss rate: 0.00%
```

Run 10: Report of SReAM — Data Link

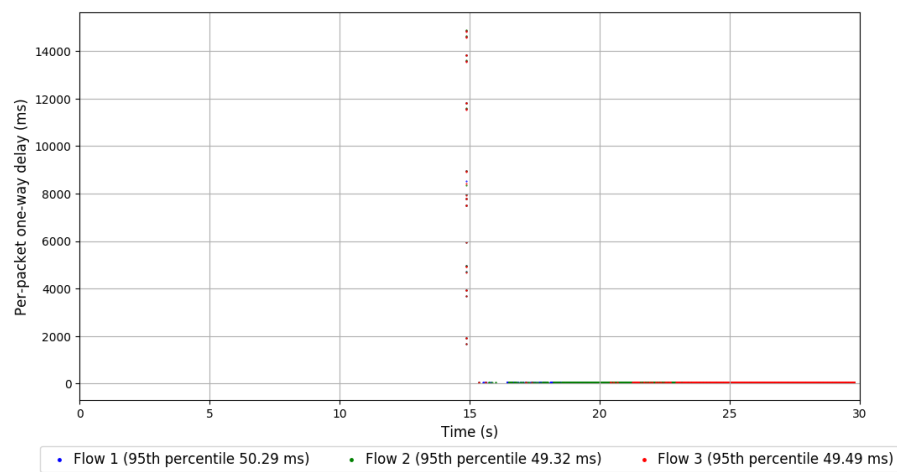
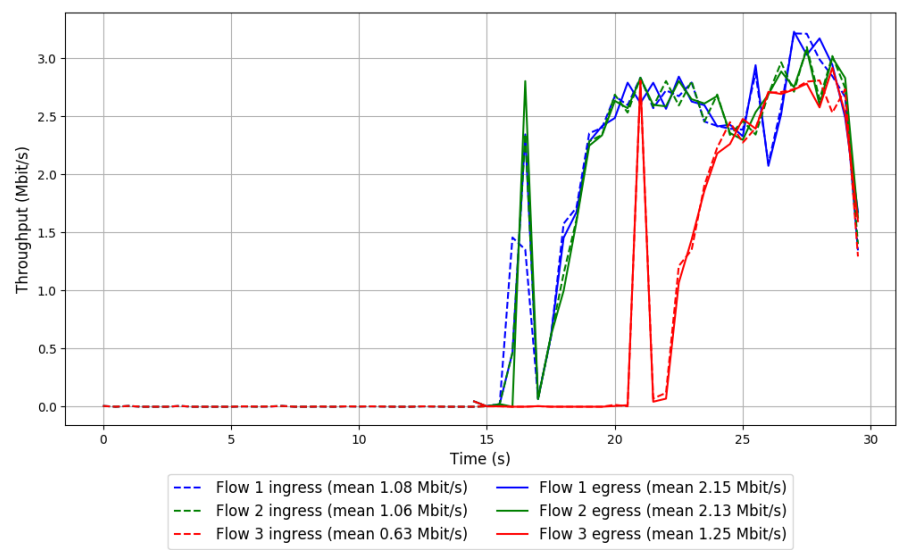


Run 1: Statistics of WebRTC media

Start at: 2017-12-12 06:55:41

End at: 2017-12-12 06:56:11

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

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

End at: 2017-12-12 07:08:16

Below is generated by plot.py at 2017-12-12 10:53:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.16 Mbit/s

95th percentile per-packet one-way delay: 50.685 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.21 Mbit/s

95th percentile per-packet one-way delay: 50.698 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.40 Mbit/s

95th percentile per-packet one-way delay: 50.739 ms

Loss rate: 0.00%

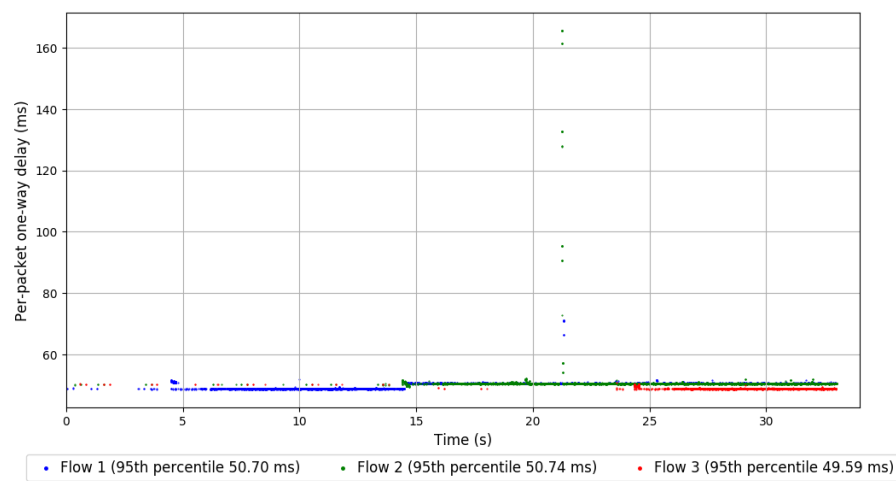
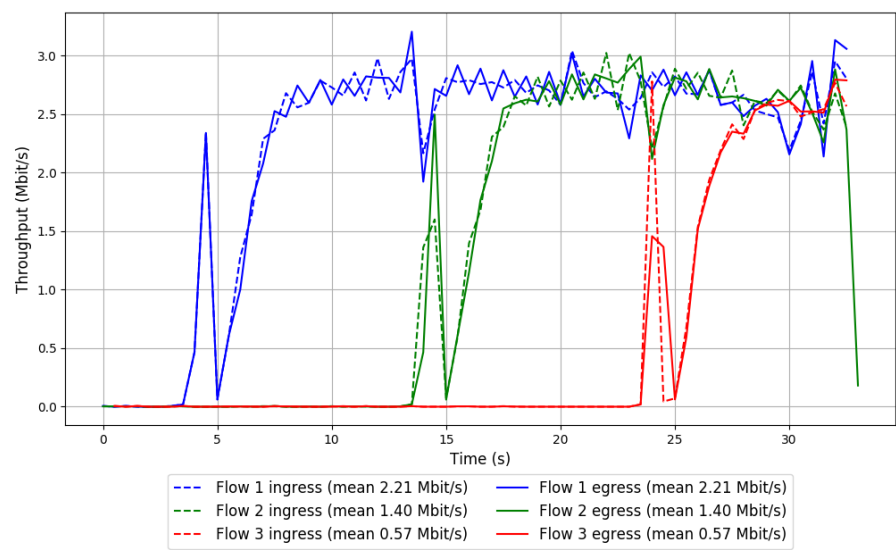
-- Flow 3:

Average throughput: 0.57 Mbit/s

95th percentile per-packet one-way delay: 49.588 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2017-12-12 07:19:53

End at: 2017-12-12 07:20:23

Below is generated by plot.py at 2017-12-12 10:53:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.13 Mbit/s

95th percentile per-packet one-way delay: 50.708 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.20 Mbit/s

95th percentile per-packet one-way delay: 50.752 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.38 Mbit/s

95th percentile per-packet one-way delay: 49.950 ms

Loss rate: 0.00%

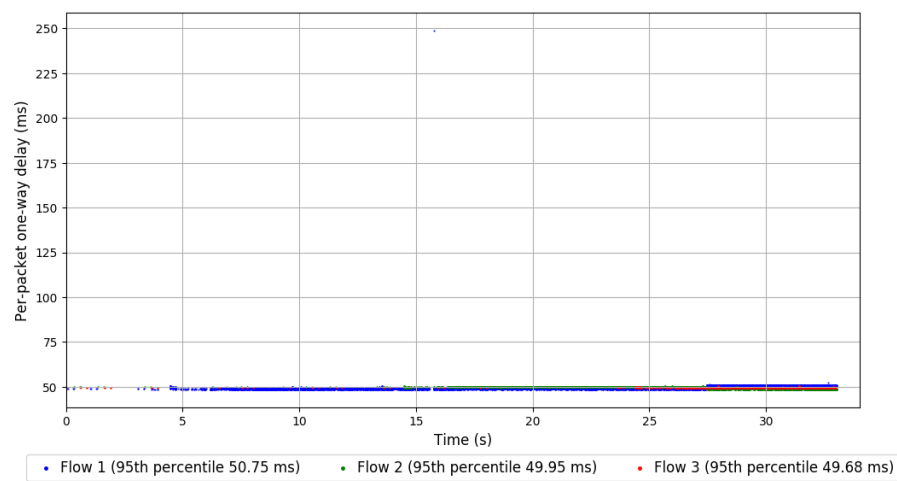
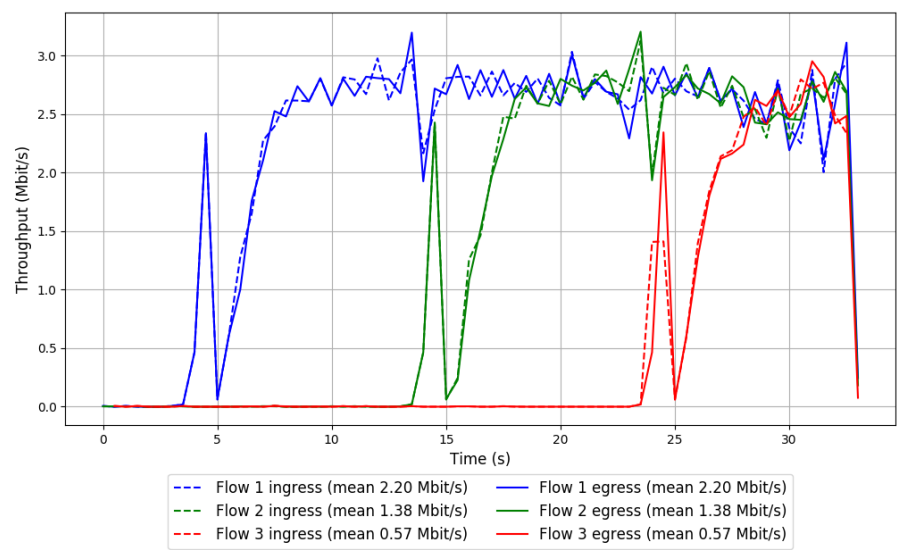
-- Flow 3:

Average throughput: 0.57 Mbit/s

95th percentile per-packet one-way delay: 49.676 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2017-12-12 07:31:50

End at: 2017-12-12 07:32:20

Below is generated by plot.py at 2017-12-12 10:53:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.17 Mbit/s

95th percentile per-packet one-way delay: 50.667 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.22 Mbit/s

95th percentile per-packet one-way delay: 50.221 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.40 Mbit/s

95th percentile per-packet one-way delay: 50.402 ms

Loss rate: 0.00%

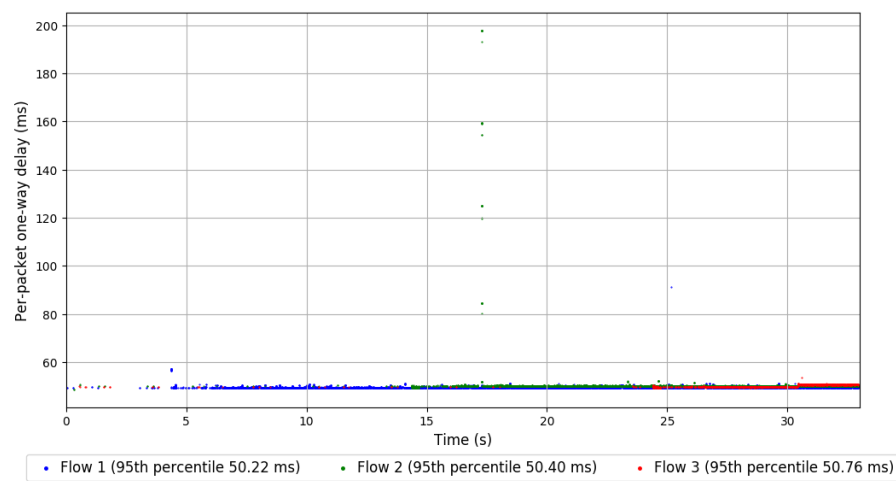
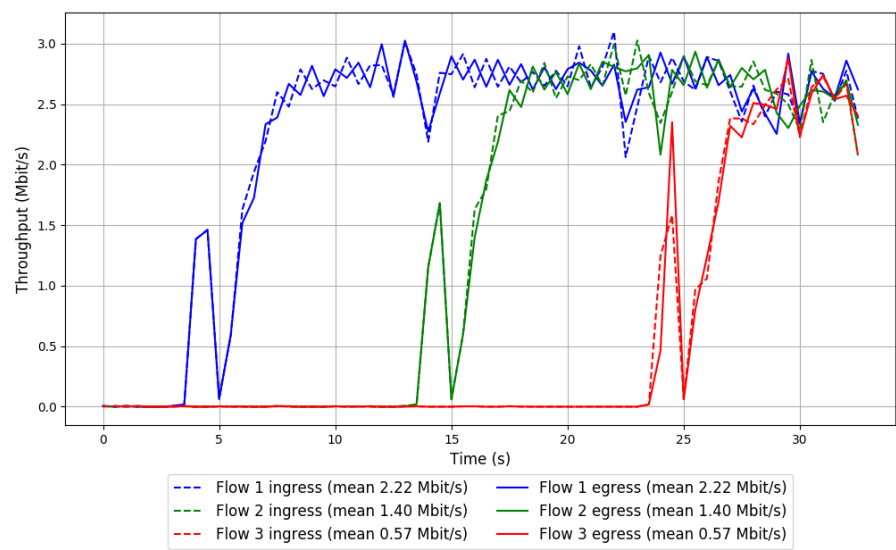
-- Flow 3:

Average throughput: 0.57 Mbit/s

95th percentile per-packet one-way delay: 50.760 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2017-12-12 07:44:02

End at: 2017-12-12 07:44:32

Below is generated by plot.py at 2017-12-12 10:53:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.13 Mbit/s

95th percentile per-packet one-way delay: 50.956 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.20 Mbit/s

95th percentile per-packet one-way delay: 50.948 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.40 Mbit/s

95th percentile per-packet one-way delay: 50.970 ms

Loss rate: 0.00%

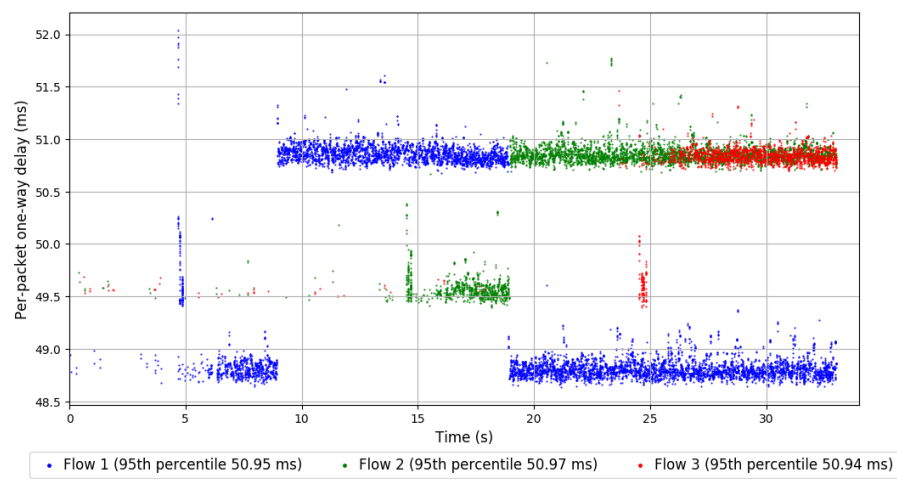
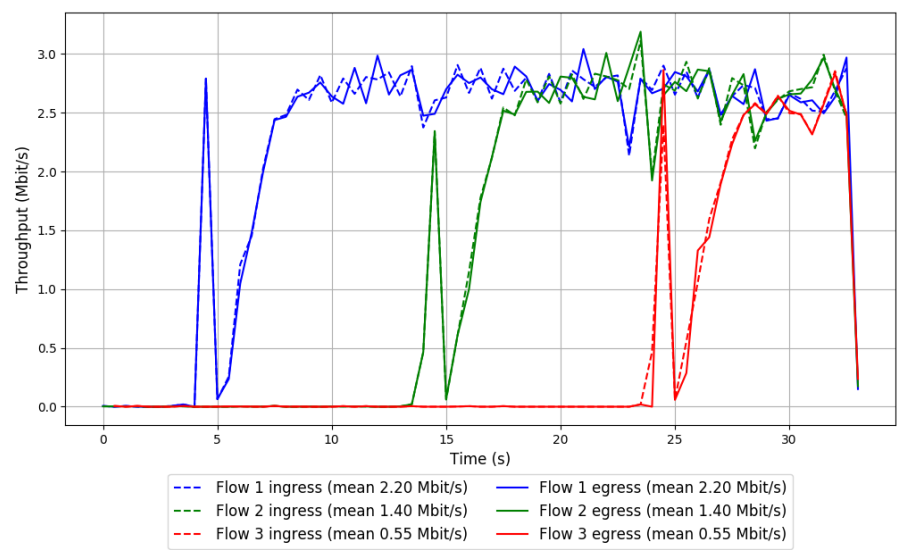
-- Flow 3:

Average throughput: 0.55 Mbit/s

95th percentile per-packet one-way delay: 50.944 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2017-12-12 07:56:10

End at: 2017-12-12 07:56:40

Below is generated by plot.py at 2017-12-12 10:53:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.14 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.20 Mbit/s

95th percentile per-packet one-way delay: 49.507 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.40 Mbit/s

95th percentile per-packet one-way delay: 50.781 ms

Loss rate: 0.00%

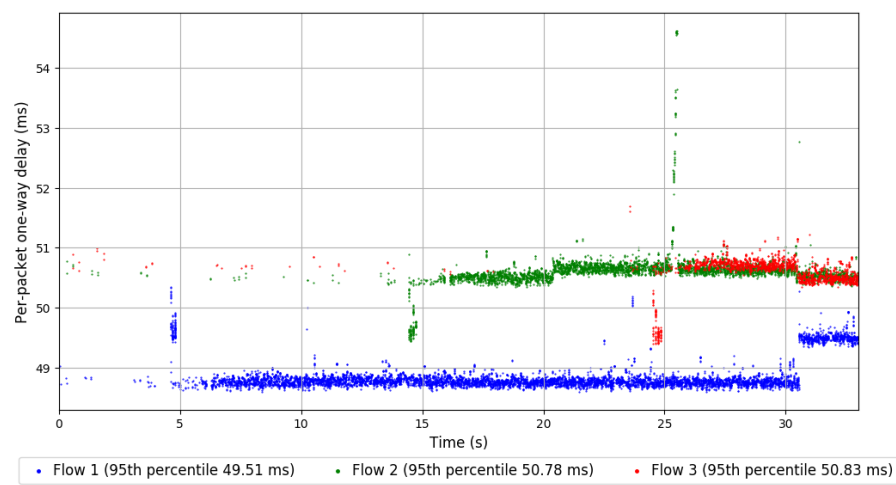
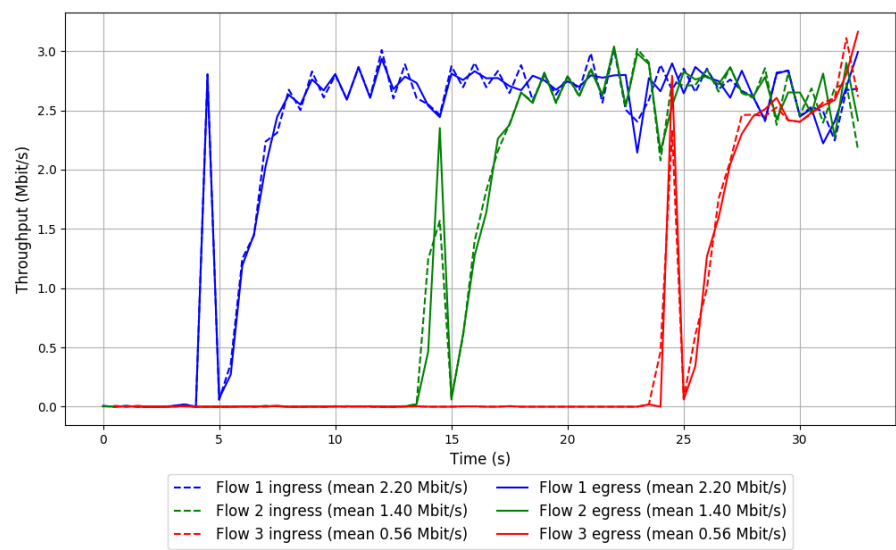
-- Flow 3:

Average throughput: 0.56 Mbit/s

95th percentile per-packet one-way delay: 50.834 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2017-12-12 08:08:16

End at: 2017-12-12 08:08:46

Below is generated by plot.py at 2017-12-12 10:53:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 2.25 Mbit/s

95th percentile per-packet one-way delay: 50.914 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 50.545 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.60 Mbit/s

95th percentile per-packet one-way delay: 50.928 ms

Loss rate: 0.00%

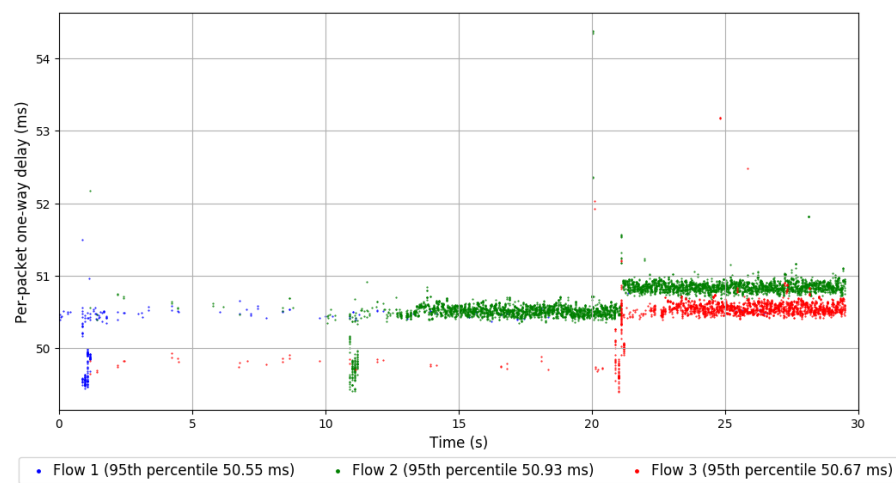
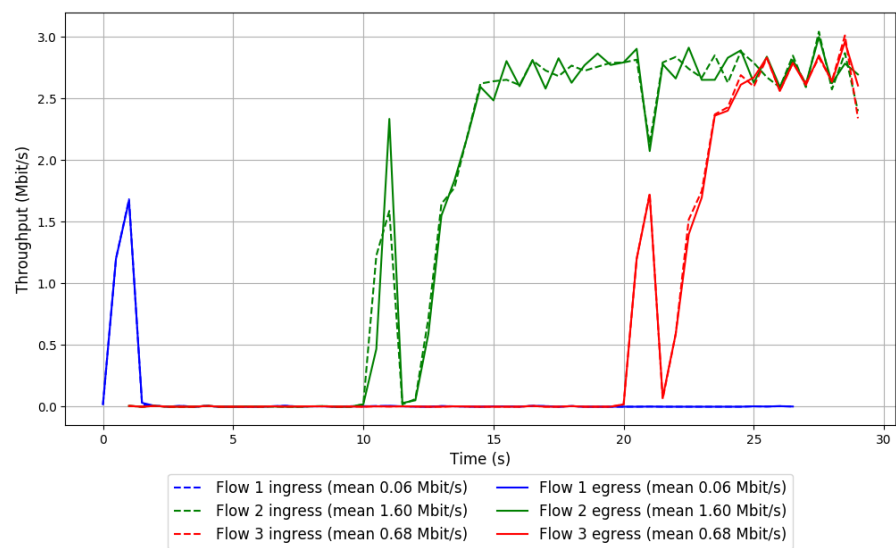
-- Flow 3:

Average throughput: 0.68 Mbit/s

95th percentile per-packet one-way delay: 50.671 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2017-12-12 08:20:10

End at: 2017-12-12 08:20:40

Below is generated by plot.py at 2017-12-12 10:53:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.37 Mbit/s

95th percentile per-packet one-way delay: 50.866 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.34 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.45 Mbit/s

95th percentile per-packet one-way delay: 50.339 ms

Loss rate: 0.00%

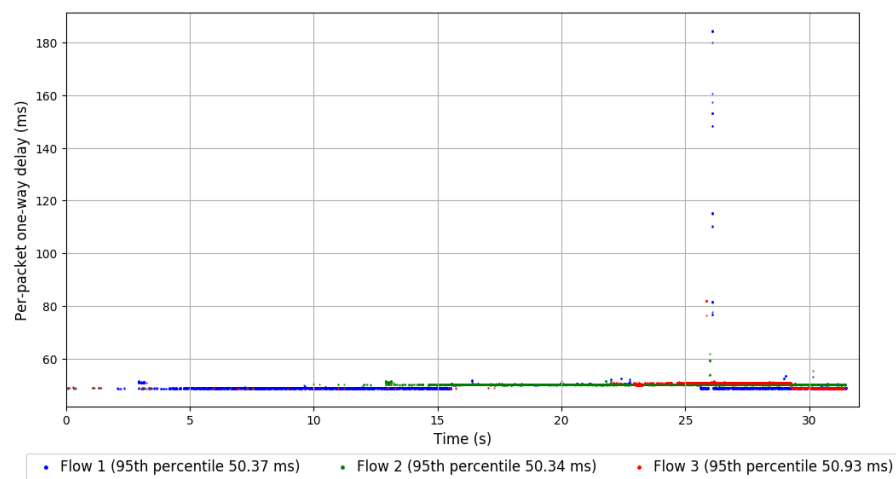
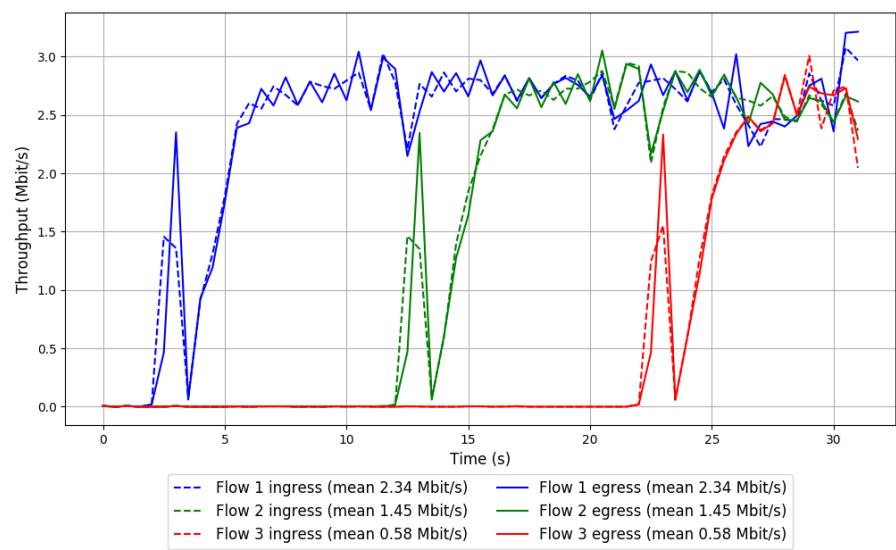
-- Flow 3:

Average throughput: 0.58 Mbit/s

95th percentile per-packet one-way delay: 50.930 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2017-12-12 08:32:25

End at: 2017-12-12 08:32:55

Below is generated by plot.py at 2017-12-12 10:53:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.12 Mbit/s

95th percentile per-packet one-way delay: 50.820 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.20 Mbit/s

95th percentile per-packet one-way delay: 50.866 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.39 Mbit/s

95th percentile per-packet one-way delay: 50.274 ms

Loss rate: 0.00%

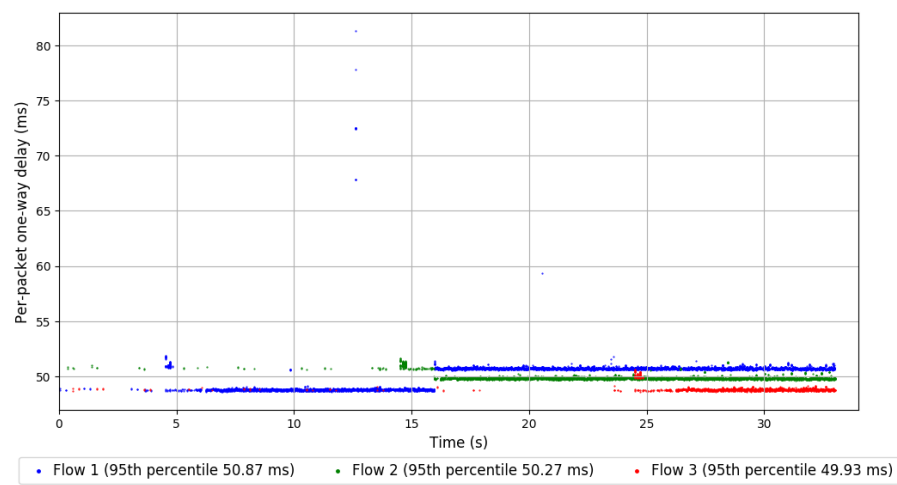
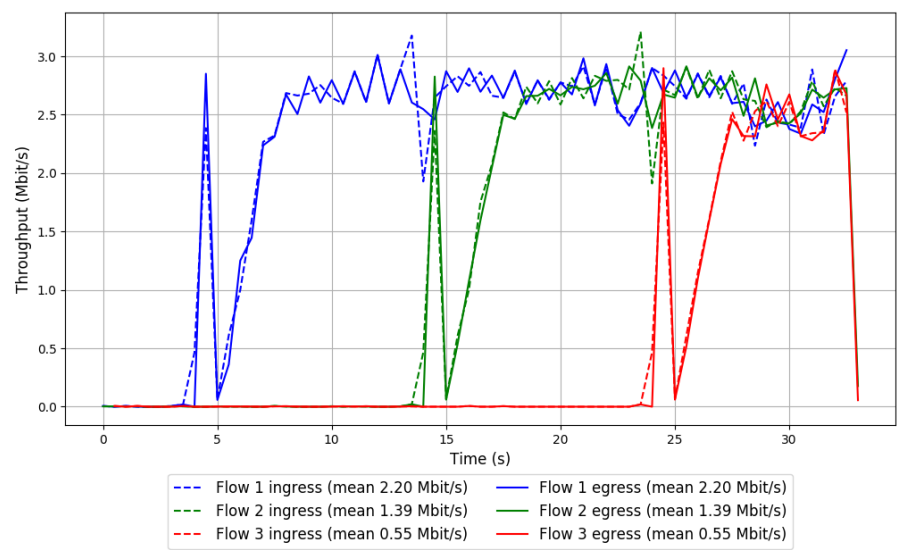
-- Flow 3:

Average throughput: 0.55 Mbit/s

95th percentile per-packet one-way delay: 49.933 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2017-12-12 08:44:28

End at: 2017-12-12 08:44:58

Below is generated by plot.py at 2017-12-12 10:53:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.14 Mbit/s

95th percentile per-packet one-way delay: 50.910 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.21 Mbit/s

95th percentile per-packet one-way delay: 49.766 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.40 Mbit/s

95th percentile per-packet one-way delay: 50.965 ms

Loss rate: 0.00%

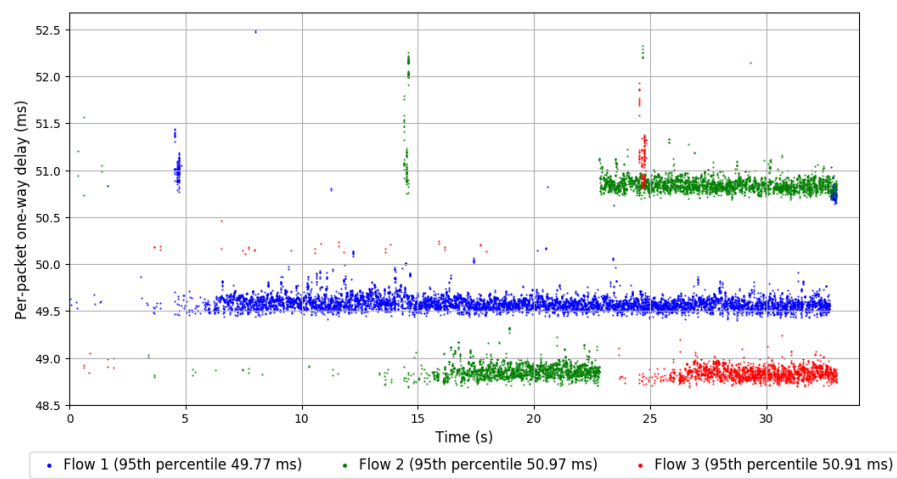
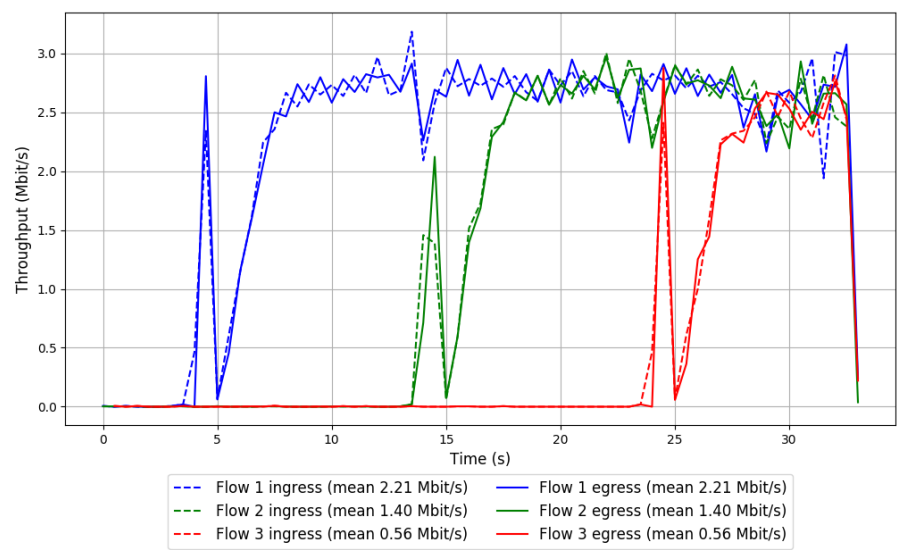
-- Flow 3:

Average throughput: 0.56 Mbit/s

95th percentile per-packet one-way delay: 50.905 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

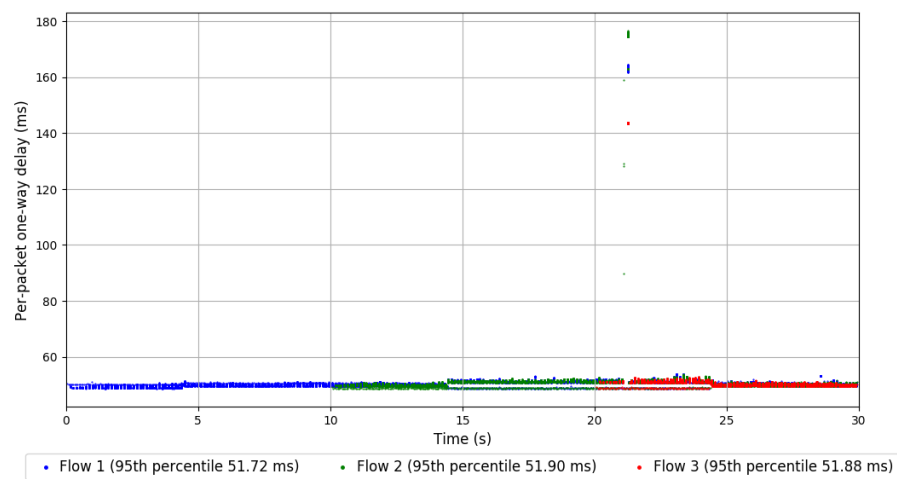
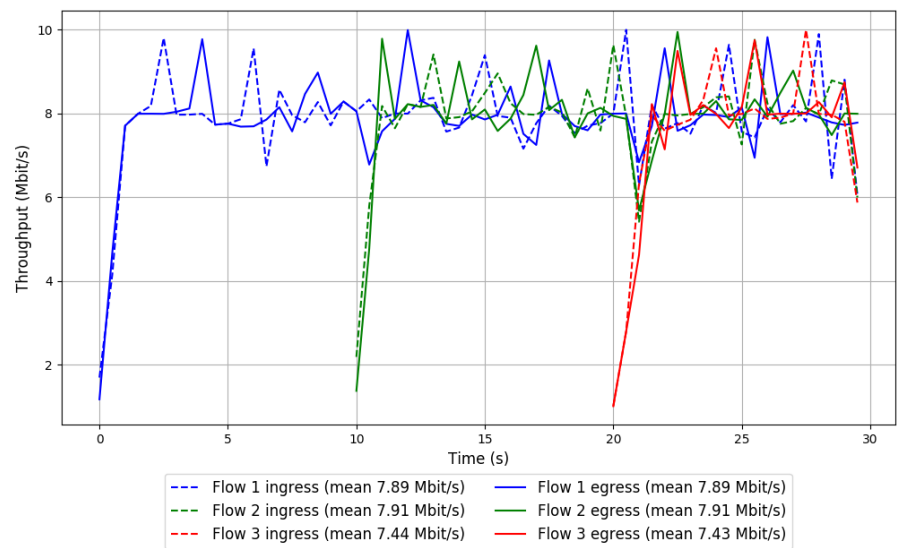


```
Run 1: Statistics of Sprout

Start at: 2017-12-12 06:59:43
End at: 2017-12-12 07:00:13

# Below is generated by plot.py at 2017-12-12 10:53:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 15.58 Mbit/s
95th percentile per-packet one-way delay: 51.819 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 7.89 Mbit/s
95th percentile per-packet one-way delay: 51.723 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 7.91 Mbit/s
95th percentile per-packet one-way delay: 51.902 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 7.43 Mbit/s
95th percentile per-packet one-way delay: 51.881 ms
Loss rate: 0.00%
```

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2017-12-12 07:11:54

End at: 2017-12-12 07:12:24

Below is generated by plot.py at 2017-12-12 10:53:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.61 Mbit/s

95th percentile per-packet one-way delay: 50.992 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 7.92 Mbit/s

95th percentile per-packet one-way delay: 51.278 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 7.82 Mbit/s

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

Loss rate: 0.02%

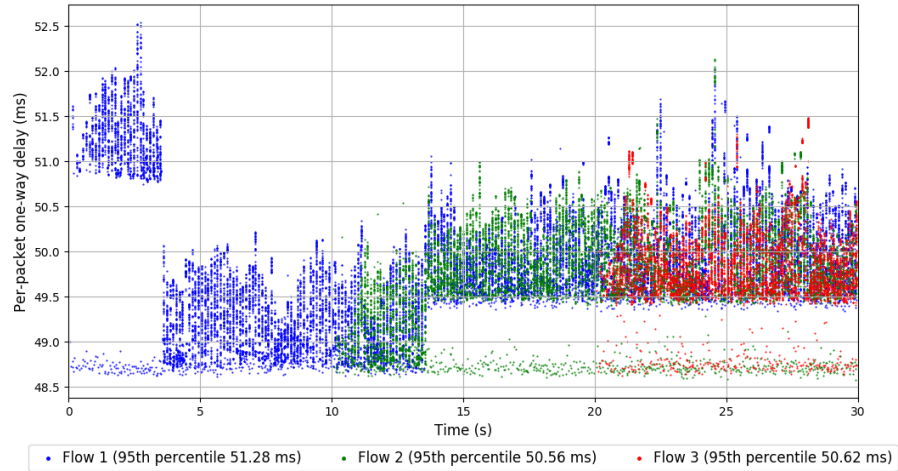
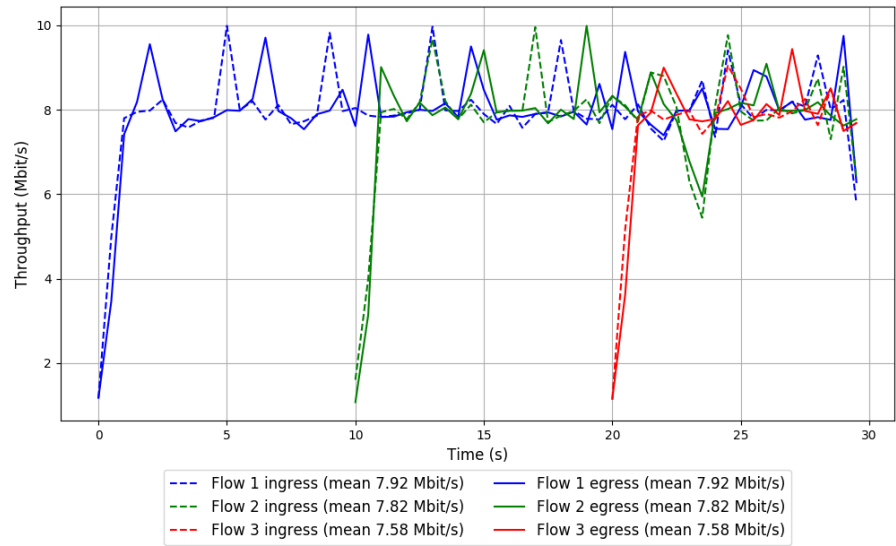
-- Flow 3:

Average throughput: 7.58 Mbit/s

95th percentile per-packet one-way delay: 50.619 ms

Loss rate: 0.00%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2017-12-12 07:23:57

End at: 2017-12-12 07:24:27

Below is generated by plot.py at 2017-12-12 10:53:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.70 Mbit/s

95th percentile per-packet one-way delay: 50.911 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 7.92 Mbit/s

95th percentile per-packet one-way delay: 50.972 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 7.88 Mbit/s

95th percentile per-packet one-way delay: 50.846 ms

Loss rate: 0.13%

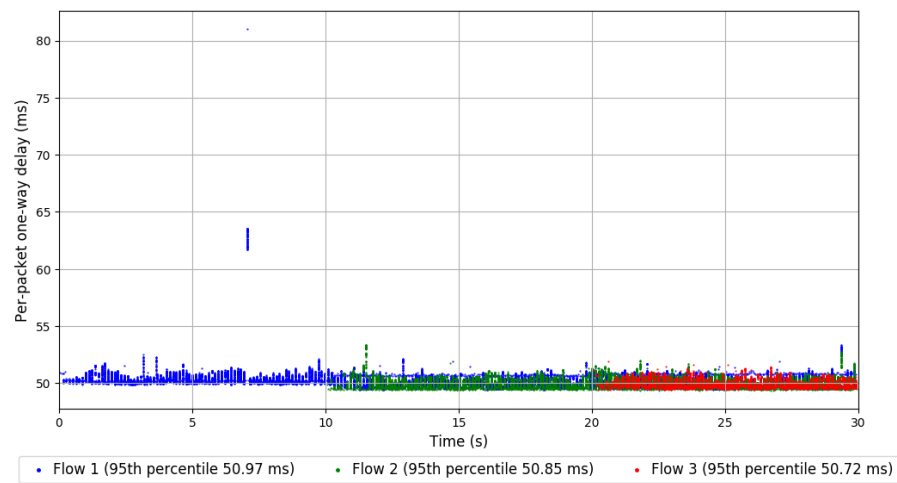
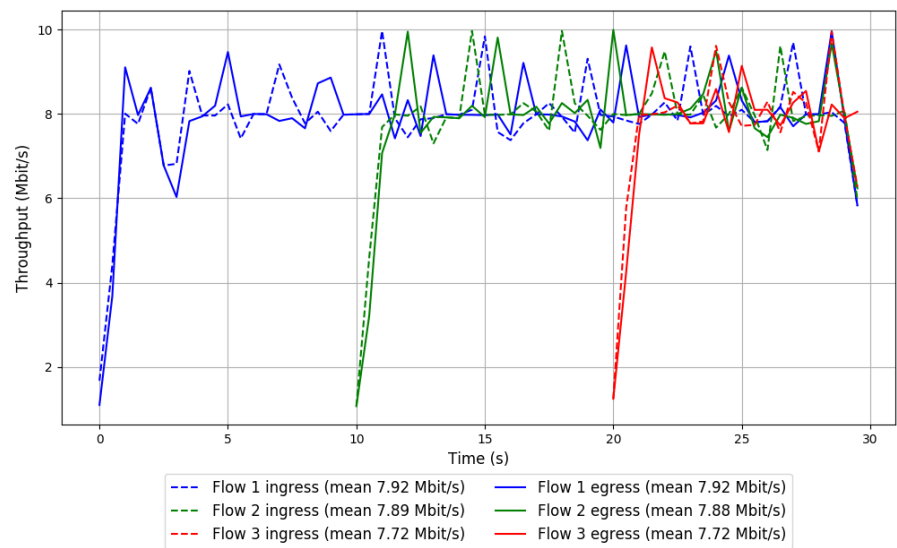
-- Flow 3:

Average throughput: 7.72 Mbit/s

95th percentile per-packet one-way delay: 50.719 ms

Loss rate: 0.00%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2017-12-12 07:36:05

End at: 2017-12-12 07:36:35

Below is generated by plot.py at 2017-12-12 10:53:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.56 Mbit/s

95th percentile per-packet one-way delay: 50.793 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 7.91 Mbit/s

95th percentile per-packet one-way delay: 50.859 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 7.83 Mbit/s

95th percentile per-packet one-way delay: 50.710 ms

Loss rate: 0.00%

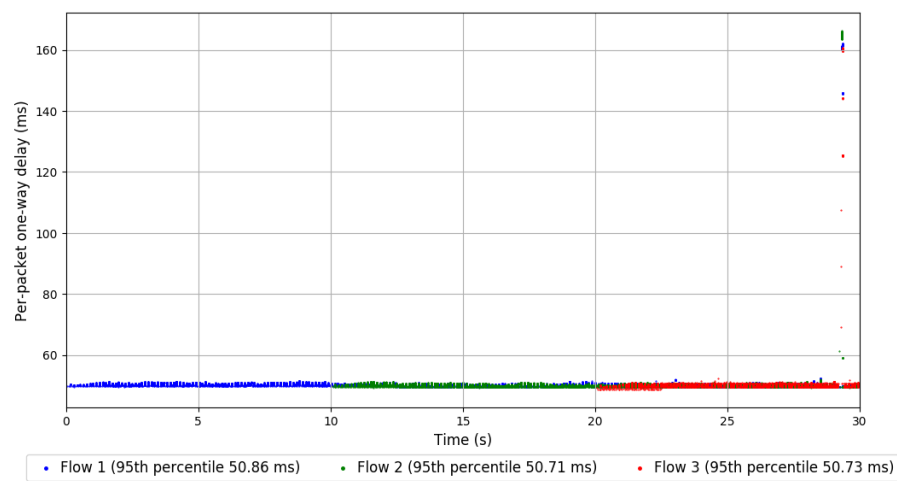
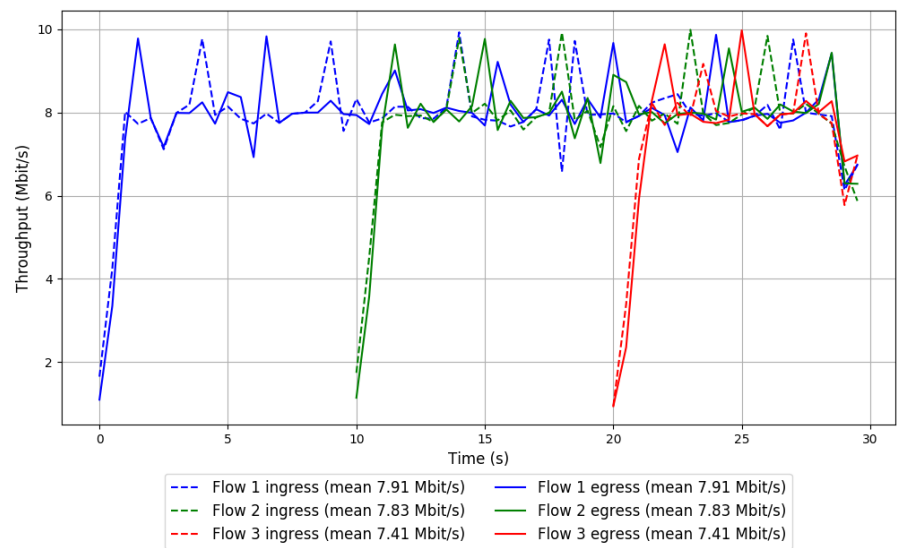
-- Flow 3:

Average throughput: 7.41 Mbit/s

95th percentile per-packet one-way delay: 50.730 ms

Loss rate: 0.00%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2017-12-12 07:48:15

End at: 2017-12-12 07:48:45

Below is generated by plot.py at 2017-12-12 10:53:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.66 Mbit/s

95th percentile per-packet one-way delay: 51.155 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 7.93 Mbit/s

95th percentile per-packet one-way delay: 51.156 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 7.85 Mbit/s

95th percentile per-packet one-way delay: 51.212 ms

Loss rate: 0.18%

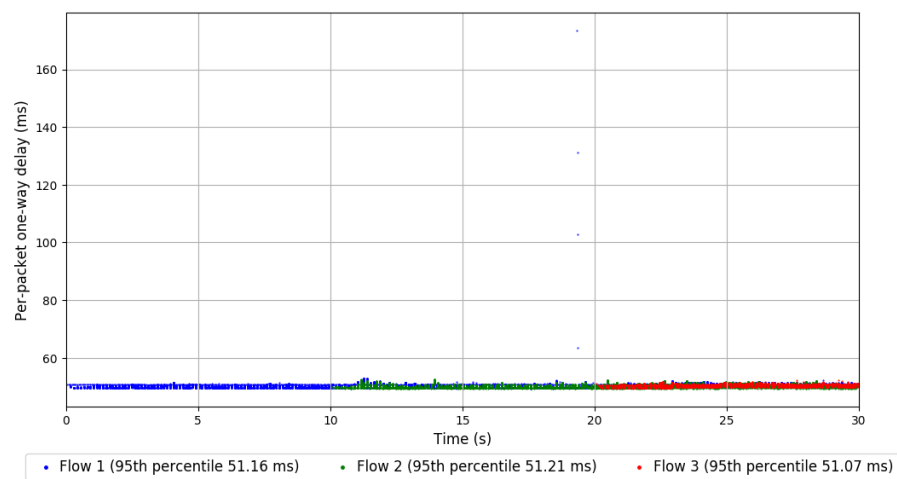
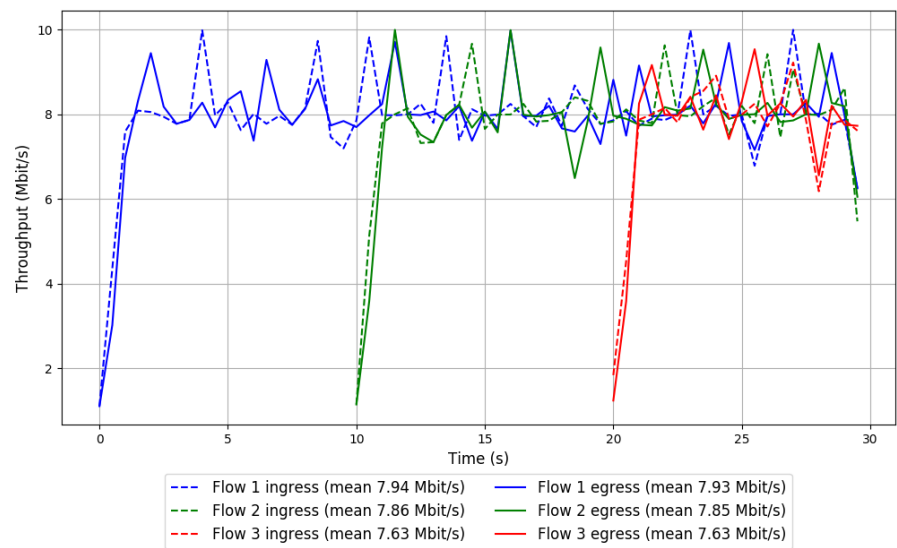
-- Flow 3:

Average throughput: 7.63 Mbit/s

95th percentile per-packet one-way delay: 51.071 ms

Loss rate: 0.00%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2017-12-12 08:00:16

End at: 2017-12-12 08:00:46

Below is generated by plot.py at 2017-12-12 10:53:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.59 Mbit/s

95th percentile per-packet one-way delay: 51.073 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 7.90 Mbit/s

95th percentile per-packet one-way delay: 51.275 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 7.82 Mbit/s

95th percentile per-packet one-way delay: 50.988 ms

Loss rate: 0.00%

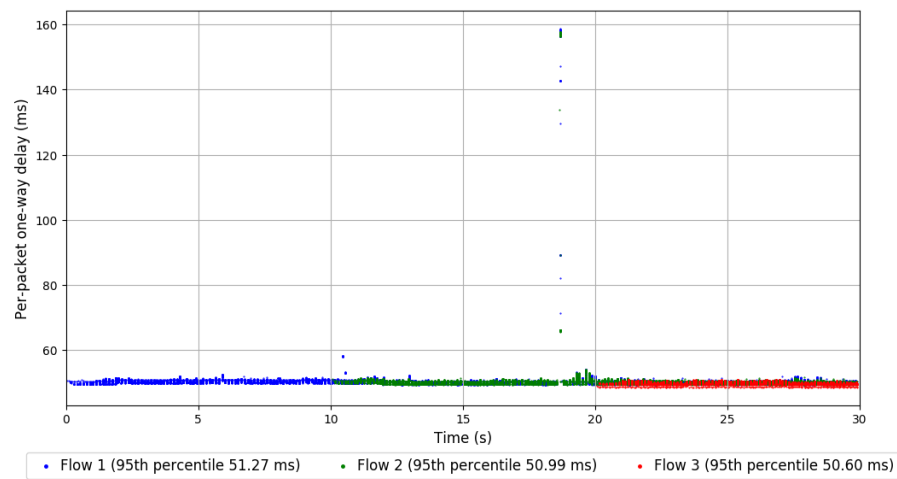
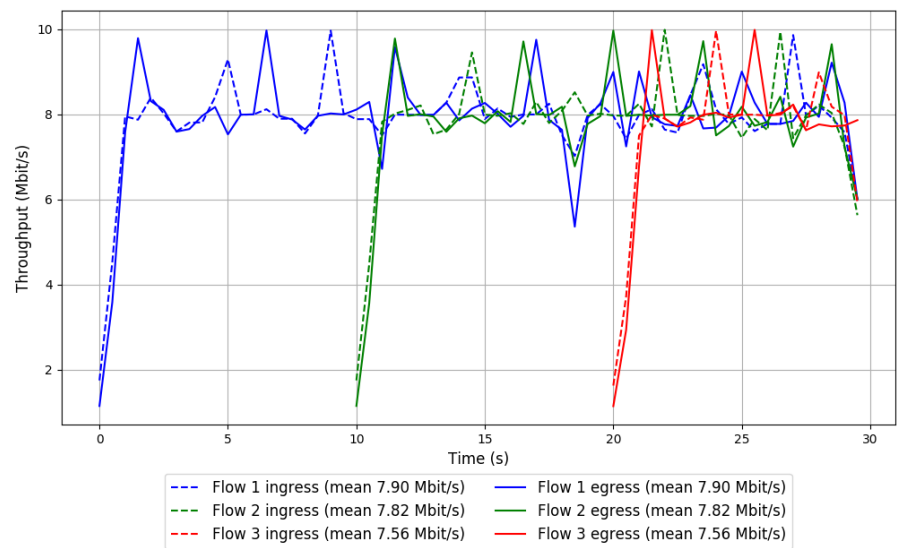
-- Flow 3:

Average throughput: 7.56 Mbit/s

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

Loss rate: 0.00%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2017-12-12 08:12:22

End at: 2017-12-12 08:12:52

Below is generated by plot.py at 2017-12-12 10:53:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.56 Mbit/s

95th percentile per-packet one-way delay: 51.872 ms

Loss rate: 0.22%

-- Flow 1:

Average throughput: 7.84 Mbit/s

95th percentile per-packet one-way delay: 51.806 ms

Loss rate: 0.42%

-- Flow 2:

Average throughput: 7.85 Mbit/s

95th percentile per-packet one-way delay: 51.890 ms

Loss rate: 0.01%

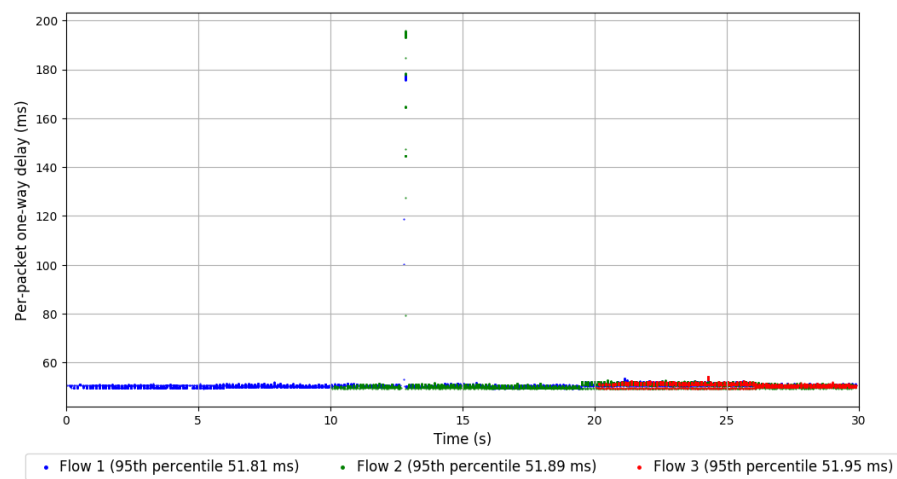
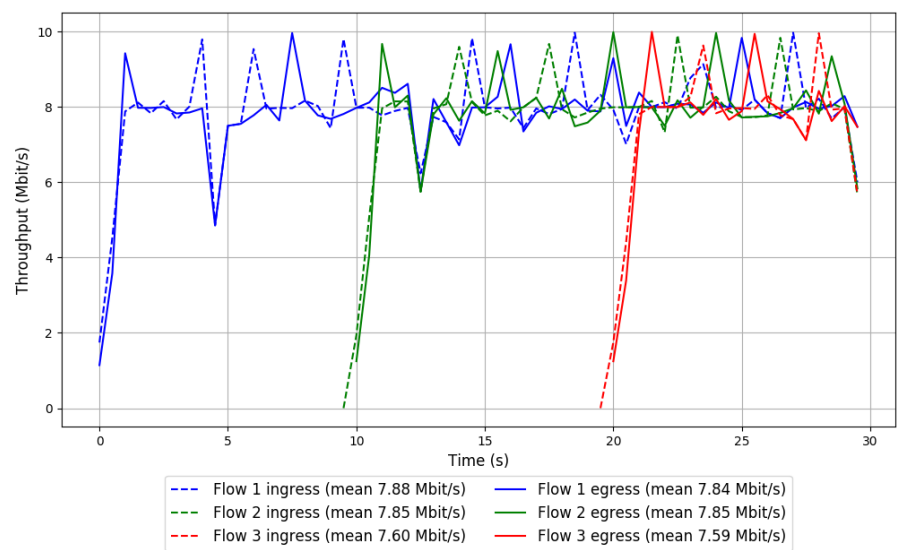
-- Flow 3:

Average throughput: 7.59 Mbit/s

95th percentile per-packet one-way delay: 51.946 ms

Loss rate: 0.00%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2017-12-12 08:24:19

End at: 2017-12-12 08:24:49

Below is generated by plot.py at 2017-12-12 10:53:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.49 Mbit/s

95th percentile per-packet one-way delay: 51.937 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 7.89 Mbit/s

95th percentile per-packet one-way delay: 52.019 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 7.64 Mbit/s

95th percentile per-packet one-way delay: 51.894 ms

Loss rate: 0.23%

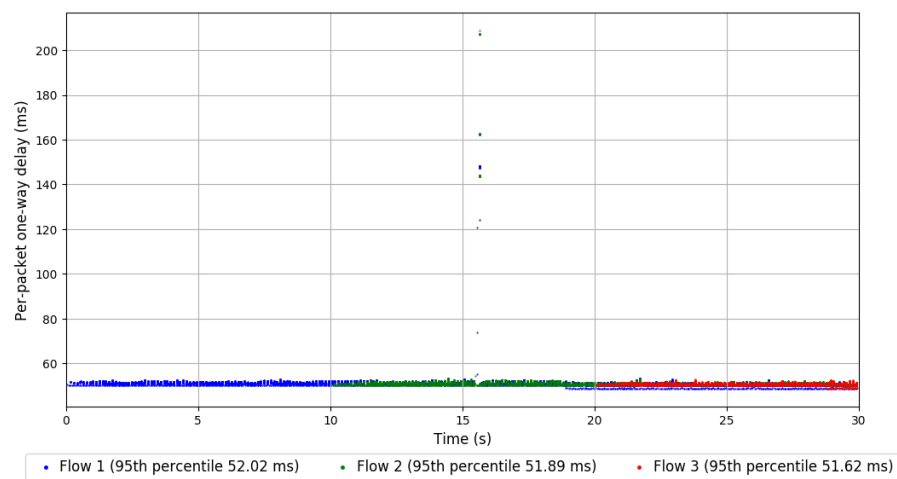
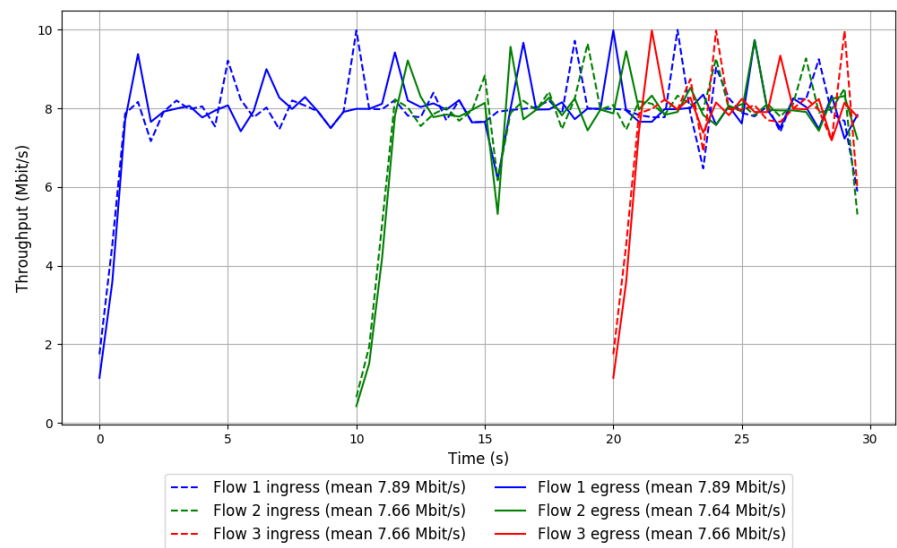
-- Flow 3:

Average throughput: 7.66 Mbit/s

95th percentile per-packet one-way delay: 51.617 ms

Loss rate: 0.00%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2017-12-12 08:36:31

End at: 2017-12-12 08:37:01

Below is generated by plot.py at 2017-12-12 10:53:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.43 Mbit/s

95th percentile per-packet one-way delay: 51.899 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 7.93 Mbit/s

95th percentile per-packet one-way delay: 51.890 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 7.64 Mbit/s

95th percentile per-packet one-way delay: 51.903 ms

Loss rate: 0.09%

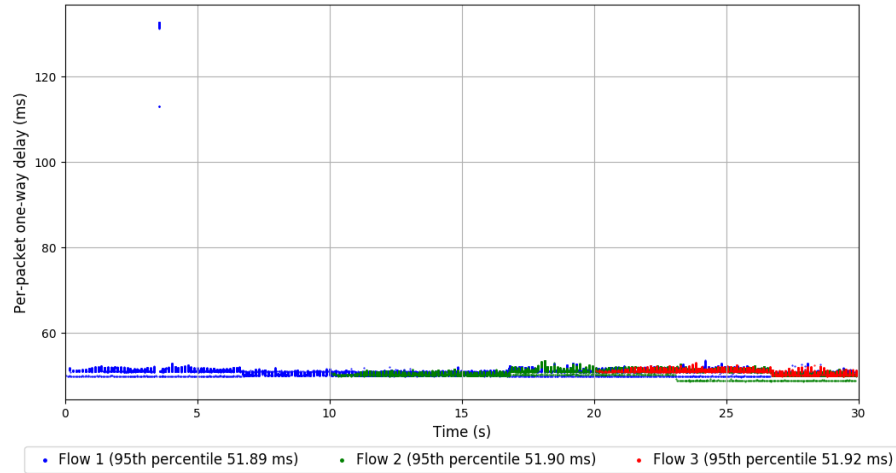
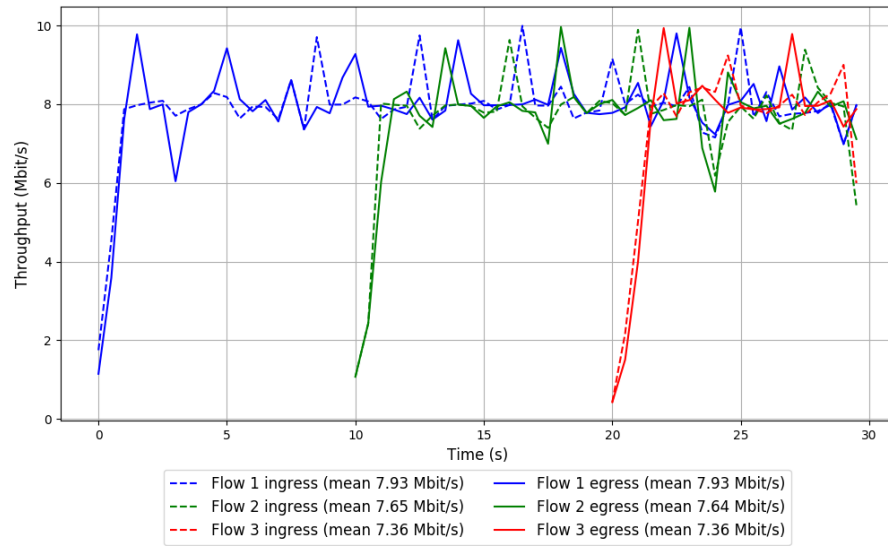
-- Flow 3:

Average throughput: 7.36 Mbit/s

95th percentile per-packet one-way delay: 51.919 ms

Loss rate: 0.00%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2017-12-12 08:48:37

End at: 2017-12-12 08:49:07

Below is generated by plot.py at 2017-12-12 10:53:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.64 Mbit/s

95th percentile per-packet one-way delay: 51.993 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 7.90 Mbit/s

95th percentile per-packet one-way delay: 51.983 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 7.84 Mbit/s

95th percentile per-packet one-way delay: 51.971 ms

Loss rate: 0.01%

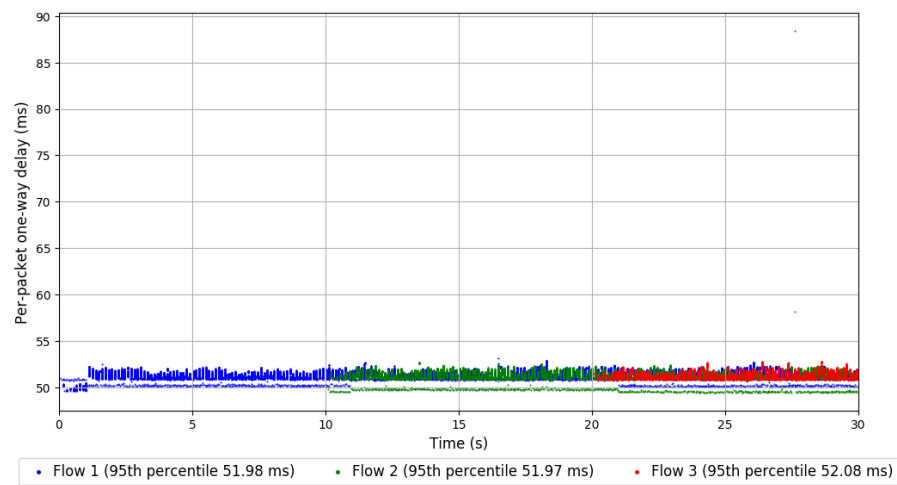
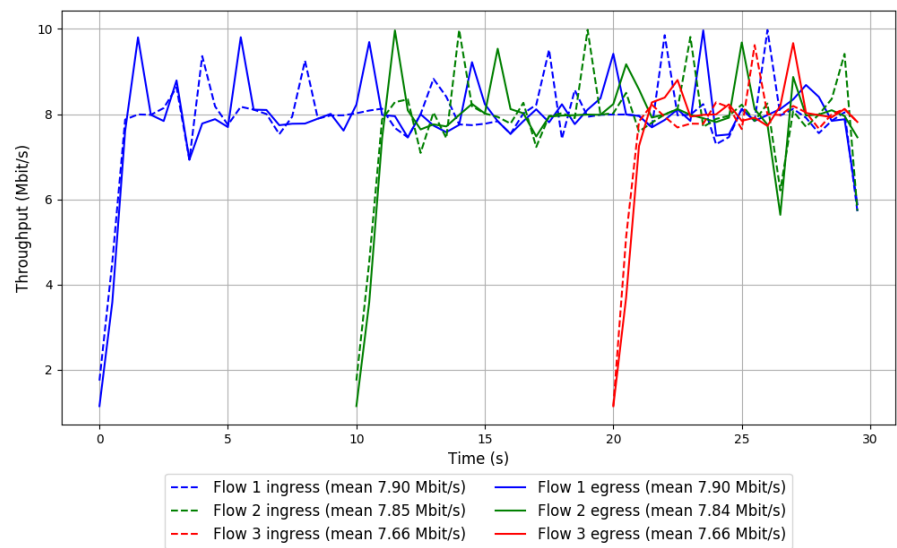
-- Flow 3:

Average throughput: 7.66 Mbit/s

95th percentile per-packet one-way delay: 52.081 ms

Loss rate: 0.05%

Run 10: Report of Sprout — Data Link

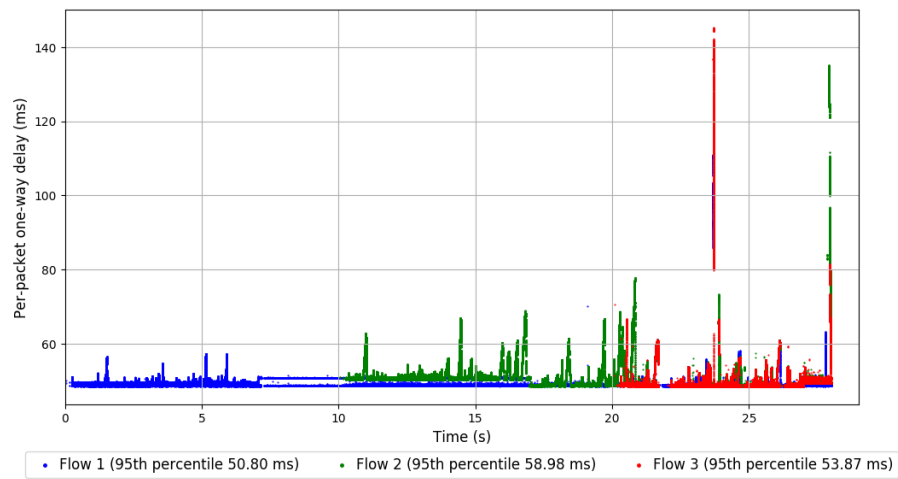
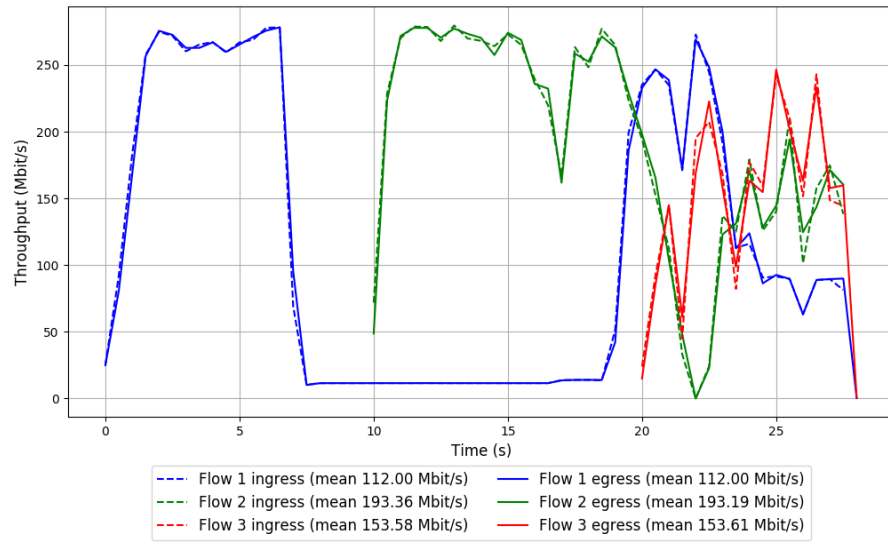


```
Run 1: Statistics of TaoVA-100x

Start at: 2017-12-12 06:58:39
End at: 2017-12-12 06:59:09

# Below is generated by plot.py at 2017-12-12 10:58:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 279.43 Mbit/s
95th percentile per-packet one-way delay: 55.378 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 112.00 Mbit/s
95th percentile per-packet one-way delay: 50.802 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 193.19 Mbit/s
95th percentile per-packet one-way delay: 58.983 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 153.61 Mbit/s
95th percentile per-packet one-way delay: 53.874 ms
Loss rate: 0.00%
```


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

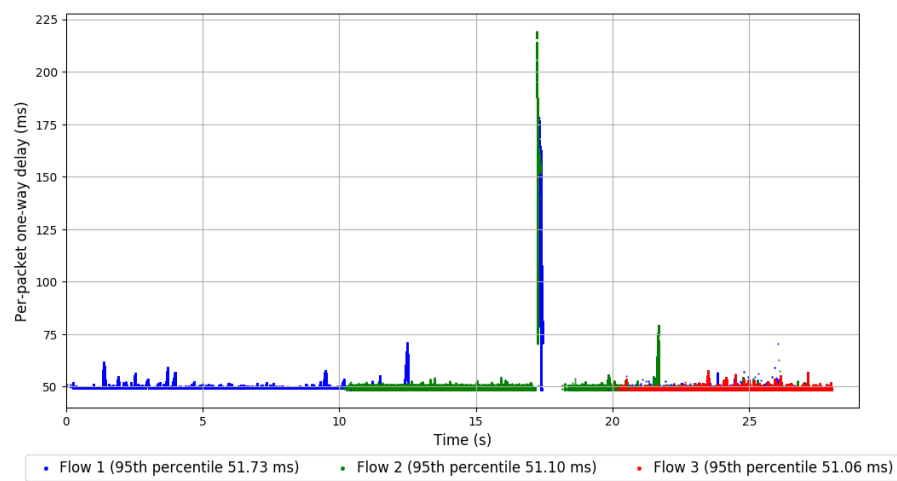
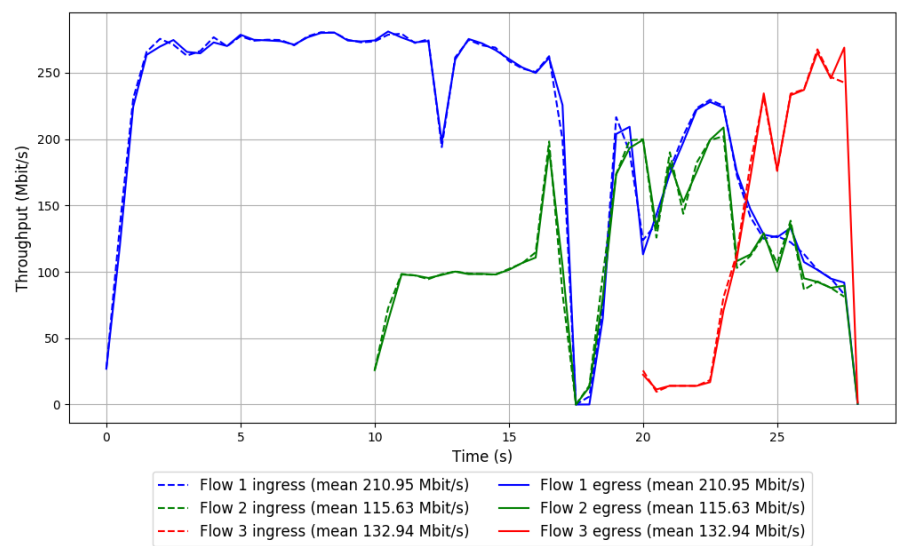


```
Run 2: Statistics of TaoVA-100x

Start at: 2017-12-12 07:10:45
End at: 2017-12-12 07:11:15

# Below is generated by plot.py at 2017-12-12 11:00:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 322.88 Mbit/s
95th percentile per-packet one-way delay: 51.490 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 210.95 Mbit/s
95th percentile per-packet one-way delay: 51.725 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 115.63 Mbit/s
95th percentile per-packet one-way delay: 51.102 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 132.94 Mbit/s
95th percentile per-packet one-way delay: 51.057 ms
Loss rate: 0.00%
```

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



Run 3: Statistics of TaoVA-100x

Start at: 2017-12-12 07:22:49

End at: 2017-12-12 07:23:19

Below is generated by plot.py at 2017-12-12 11:00:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 314.17 Mbit/s

95th percentile per-packet one-way delay: 56.000 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 207.41 Mbit/s

95th percentile per-packet one-way delay: 55.442 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 77.36 Mbit/s

95th percentile per-packet one-way delay: 84.932 ms

Loss rate: 0.00%

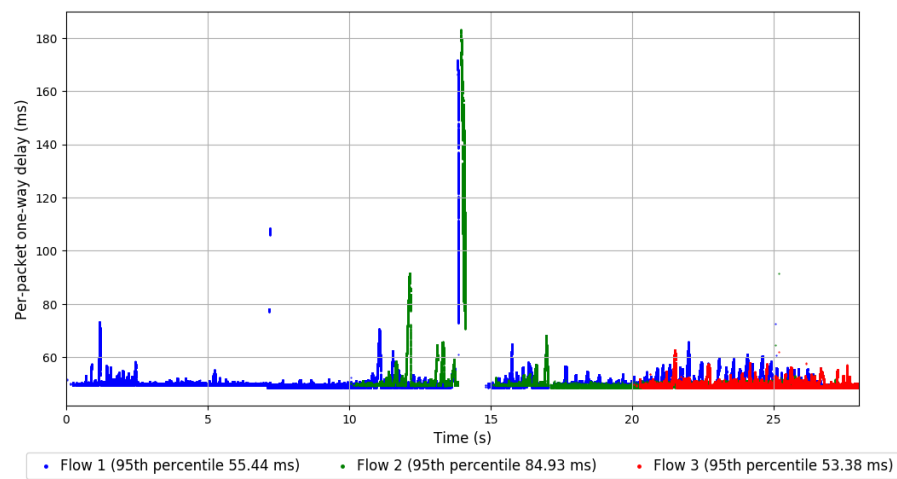
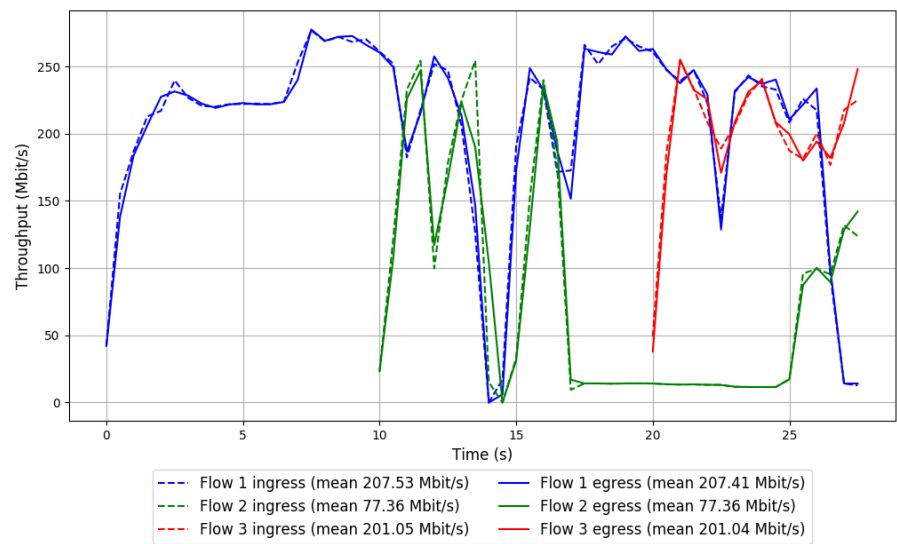
-- Flow 3:

Average throughput: 201.04 Mbit/s

95th percentile per-packet one-way delay: 53.377 ms

Loss rate: 0.01%

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



Run 4: Statistics of TaoVA-100x

Start at: 2017-12-12 07:34:53

End at: 2017-12-12 07:35:23

Below is generated by plot.py at 2017-12-12 11:01:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 352.22 Mbit/s

95th percentile per-packet one-way delay: 51.974 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 185.39 Mbit/s

95th percentile per-packet one-way delay: 50.388 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 162.77 Mbit/s

95th percentile per-packet one-way delay: 54.594 ms

Loss rate: 0.00%

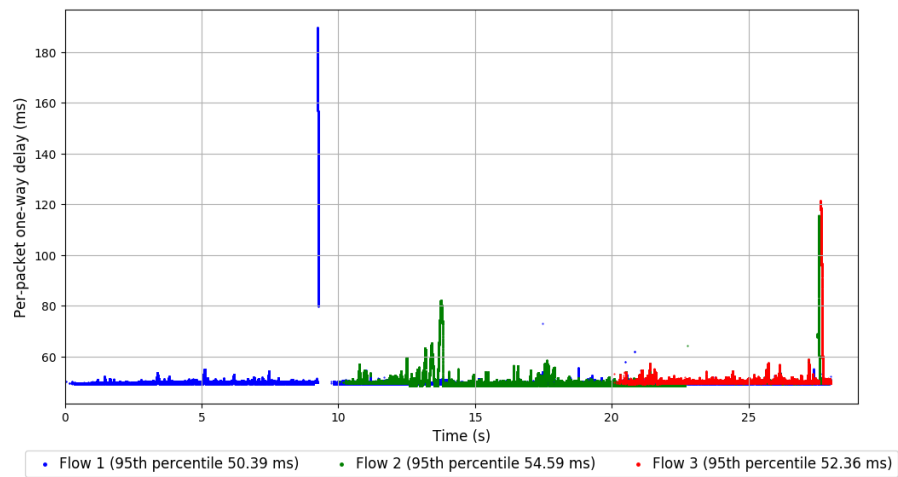
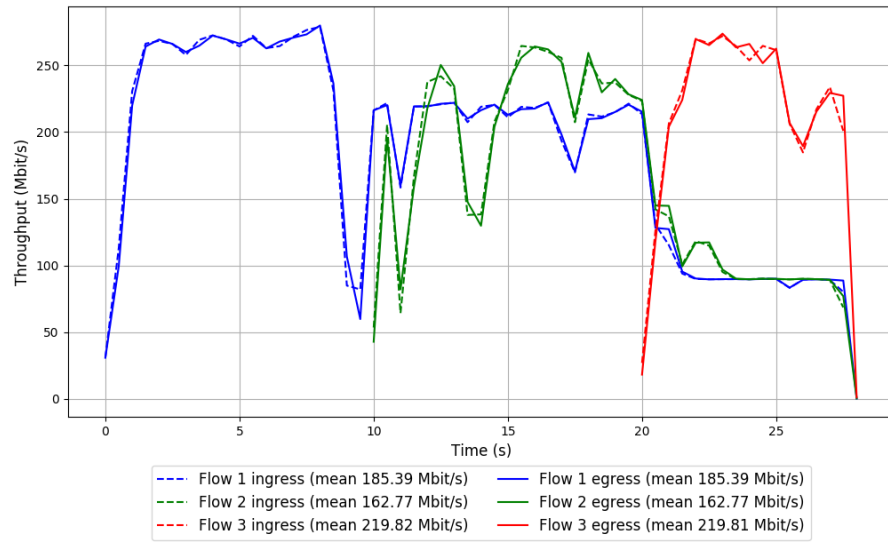
-- Flow 3:

Average throughput: 219.81 Mbit/s

95th percentile per-packet one-way delay: 52.359 ms

Loss rate: 0.00%

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



Run 5: Statistics of TaoVA-100x

Start at: 2017-12-12 07:47:01

End at: 2017-12-12 07:47:31

Below is generated by plot.py at 2017-12-12 11:02:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 373.25 Mbit/s

95th percentile per-packet one-way delay: 55.623 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 186.32 Mbit/s

95th percentile per-packet one-way delay: 50.905 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 231.58 Mbit/s

95th percentile per-packet one-way delay: 57.860 ms

Loss rate: 0.06%

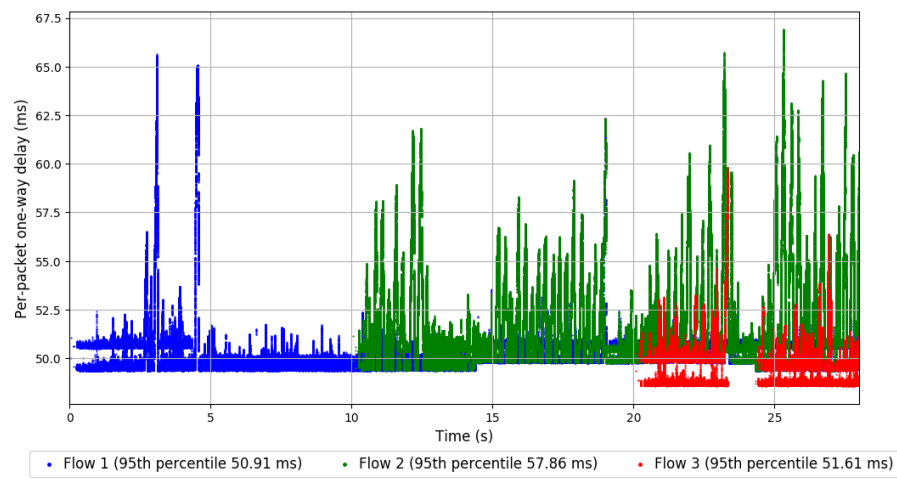
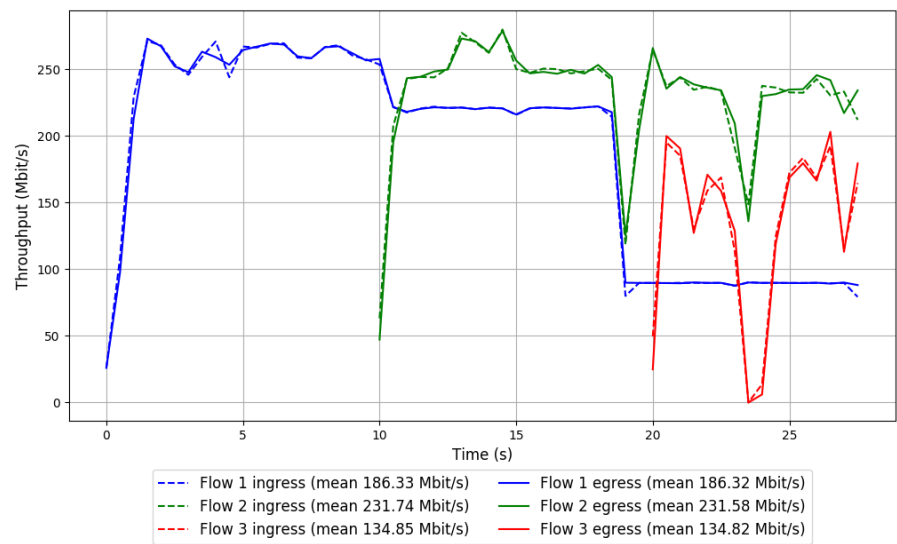
-- Flow 3:

Average throughput: 134.82 Mbit/s

95th percentile per-packet one-way delay: 51.609 ms

Loss rate: 0.01%

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



Run 6: Statistics of TaoVA-100x

Start at: 2017-12-12 07:59:10

End at: 2017-12-12 07:59:40

Below is generated by plot.py at 2017-12-12 11:02:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 294.57 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 221.91 Mbit/s

95th percentile per-packet one-way delay: 54.760 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 53.68 Mbit/s

95th percentile per-packet one-way delay: 53.969 ms

Loss rate: 0.00%

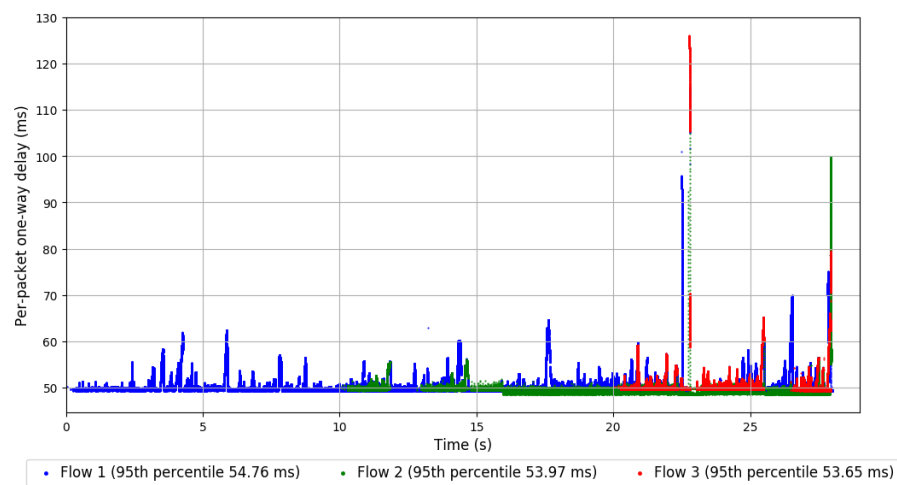
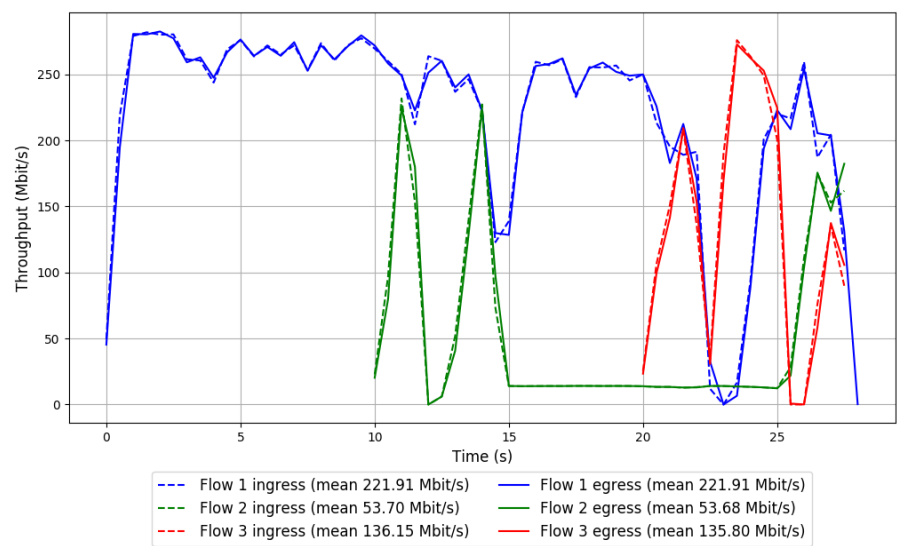
-- Flow 3:

Average throughput: 135.80 Mbit/s

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

Loss rate: 0.00%

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

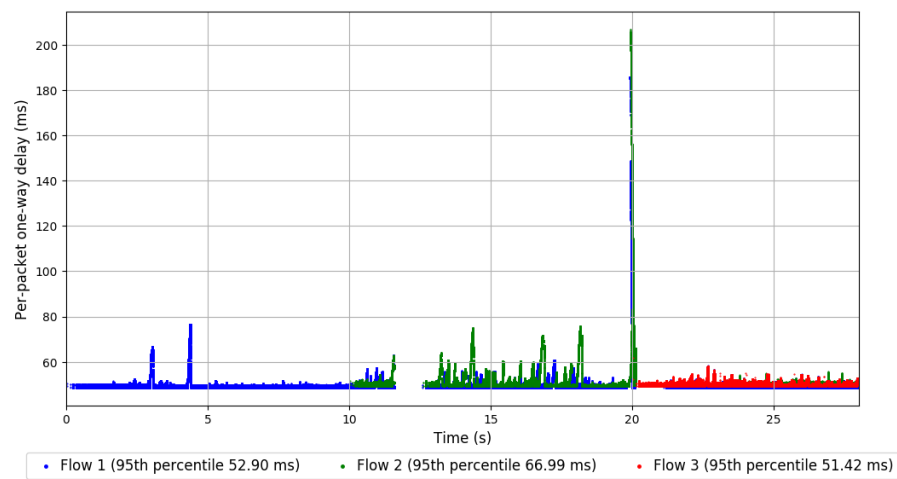
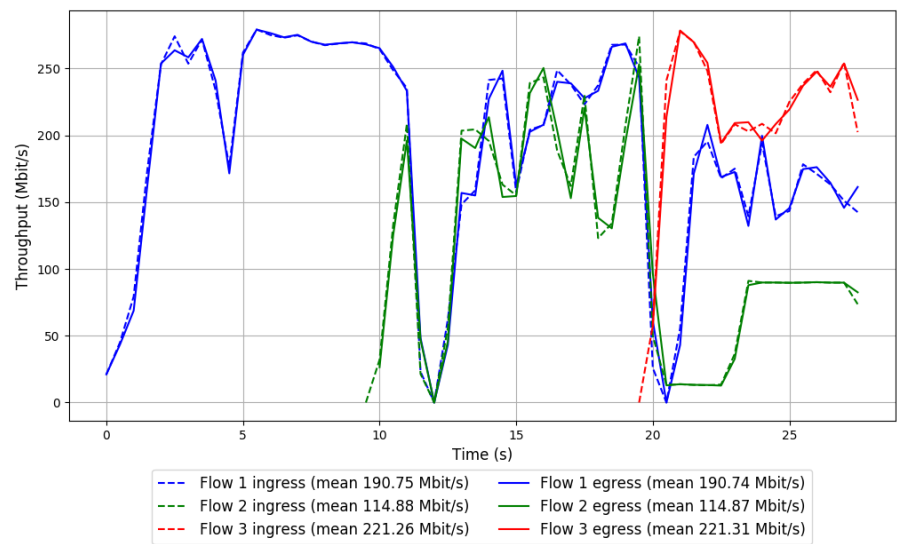


```
Run 7: Statistics of TaoVA-100x

Start at: 2017-12-12 08:11:13
End at: 2017-12-12 08:11:43

# Below is generated by plot.py at 2017-12-12 11:03:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 327.48 Mbit/s
95th percentile per-packet one-way delay: 55.307 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 190.74 Mbit/s
95th percentile per-packet one-way delay: 52.899 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 114.87 Mbit/s
95th percentile per-packet one-way delay: 66.991 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 221.31 Mbit/s
95th percentile per-packet one-way delay: 51.419 ms
Loss rate: 0.00%
```

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



Run 8: Statistics of TaoVA-100x

Start at: 2017-12-12 08:23:07

End at: 2017-12-12 08:23:37

Below is generated by plot.py at 2017-12-12 11:04:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 345.35 Mbit/s

95th percentile per-packet one-way delay: 57.319 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 207.12 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 128.99 Mbit/s

95th percentile per-packet one-way delay: 59.292 ms

Loss rate: 0.00%

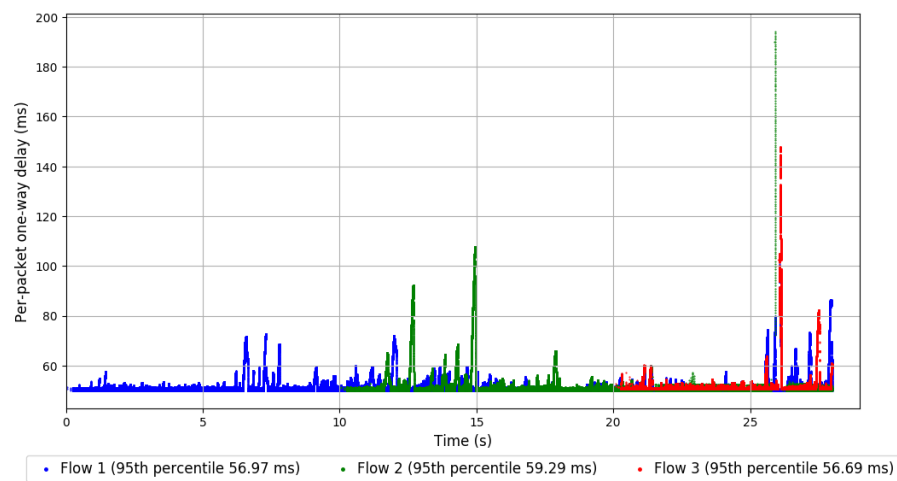
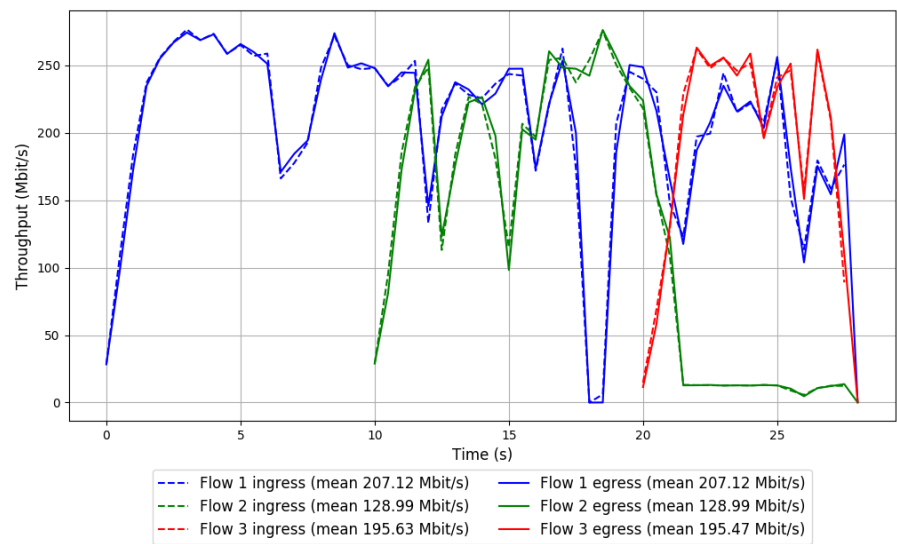
-- Flow 3:

Average throughput: 195.47 Mbit/s

95th percentile per-packet one-way delay: 56.688 ms

Loss rate: 0.10%

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



Run 9: Statistics of TaoVA-100x

Start at: 2017-12-12 08:35:23

End at: 2017-12-12 08:35:53

Below is generated by plot.py at 2017-12-12 11:09:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 323.64 Mbit/s

95th percentile per-packet one-way delay: 52.712 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 209.94 Mbit/s

95th percentile per-packet one-way delay: 53.039 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 120.33 Mbit/s

95th percentile per-packet one-way delay: 51.732 ms

Loss rate: 0.00%

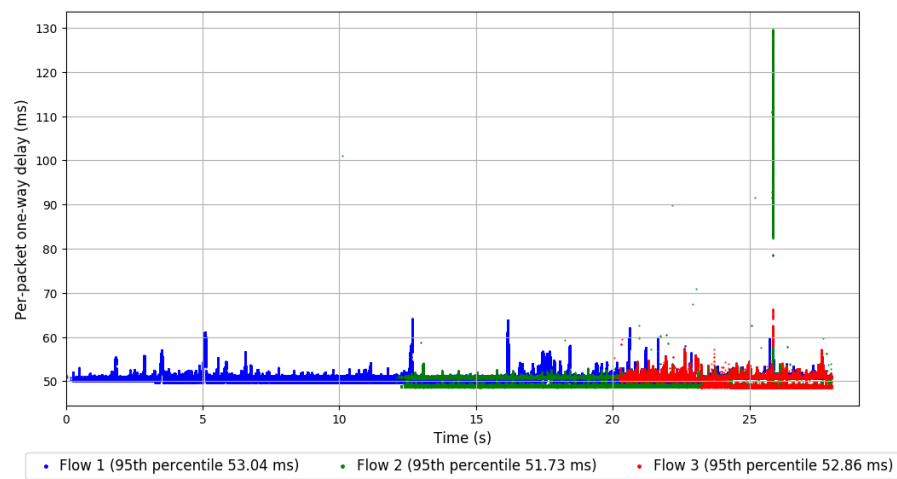
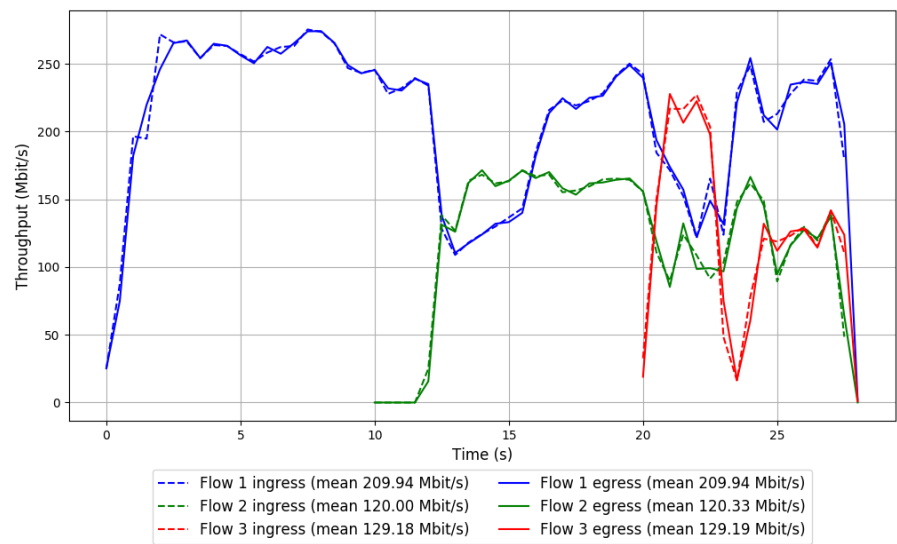
-- Flow 3:

Average throughput: 129.19 Mbit/s

95th percentile per-packet one-way delay: 52.857 ms

Loss rate: 0.00%

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

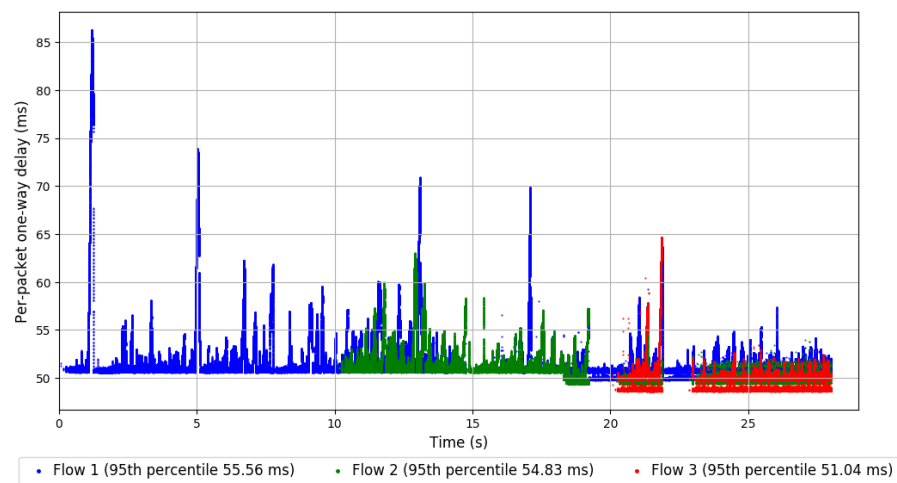
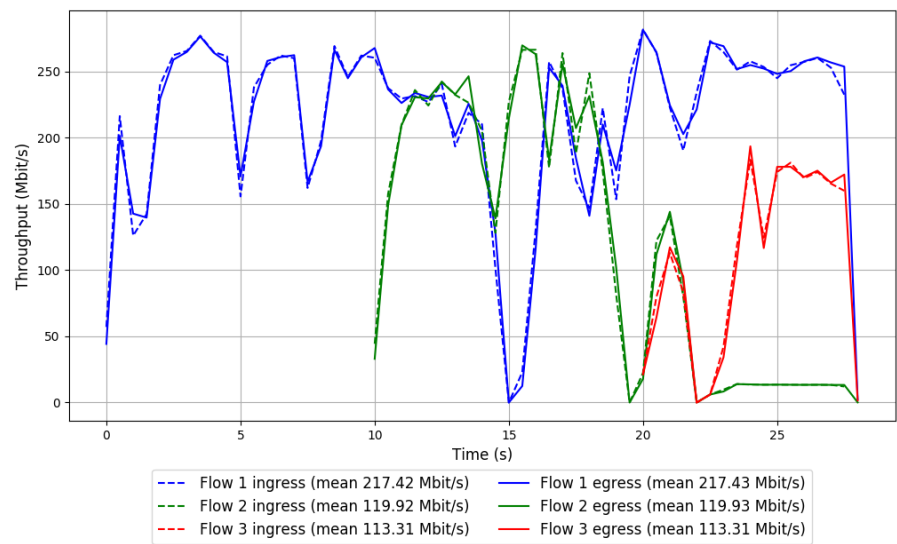


```
Run 10: Statistics of TaoVA-100x

Start at: 2017-12-12 08:47:27
End at: 2017-12-12 08:47:57

# Below is generated by plot.py at 2017-12-12 11:10:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 326.56 Mbit/s
95th percentile per-packet one-way delay: 55.046 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 217.43 Mbit/s
95th percentile per-packet one-way delay: 55.560 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 119.93 Mbit/s
95th percentile per-packet one-way delay: 54.828 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 113.31 Mbit/s
95th percentile per-packet one-way delay: 51.038 ms
Loss rate: 0.00%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2017-12-12 07:03:58

End at: 2017-12-12 07:04:28

Below is generated by plot.py at 2017-12-12 11:10:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 238.97 Mbit/s

95th percentile per-packet one-way delay: 57.202 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 174.55 Mbit/s

95th percentile per-packet one-way delay: 57.479 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 93.79 Mbit/s

95th percentile per-packet one-way delay: 54.883 ms

Loss rate: 0.01%

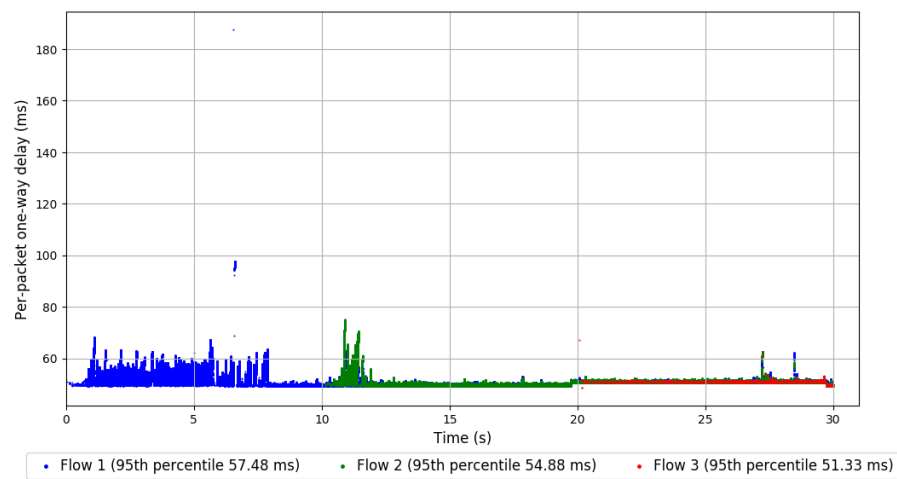
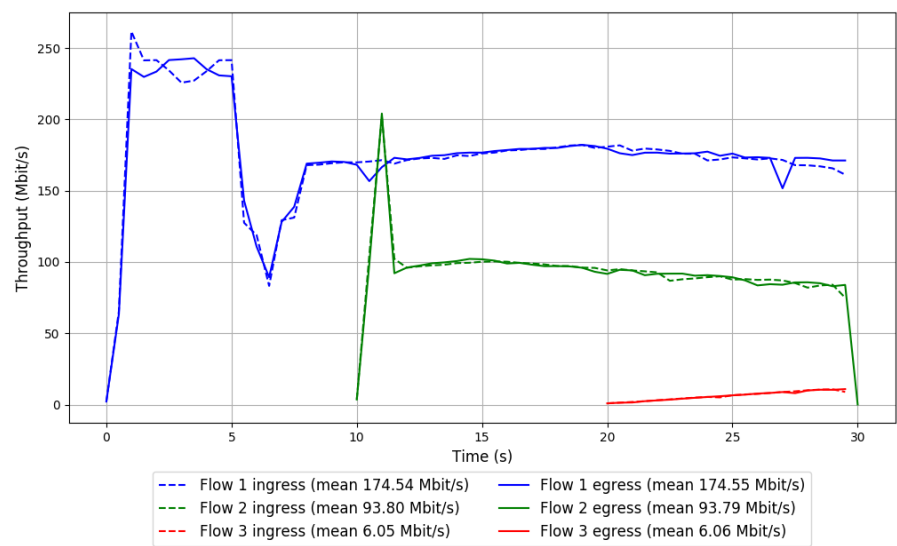
-- Flow 3:

Average throughput: 6.06 Mbit/s

95th percentile per-packet one-way delay: 51.327 ms

Loss rate: 0.06%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2017-12-12 07:16:09

End at: 2017-12-12 07:16:39

Below is generated by plot.py at 2017-12-12 11:10:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 175.18 Mbit/s

95th percentile per-packet one-way delay: 58.867 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 98.89 Mbit/s

95th percentile per-packet one-way delay: 59.515 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 81.97 Mbit/s

95th percentile per-packet one-way delay: 51.568 ms

Loss rate: 0.00%

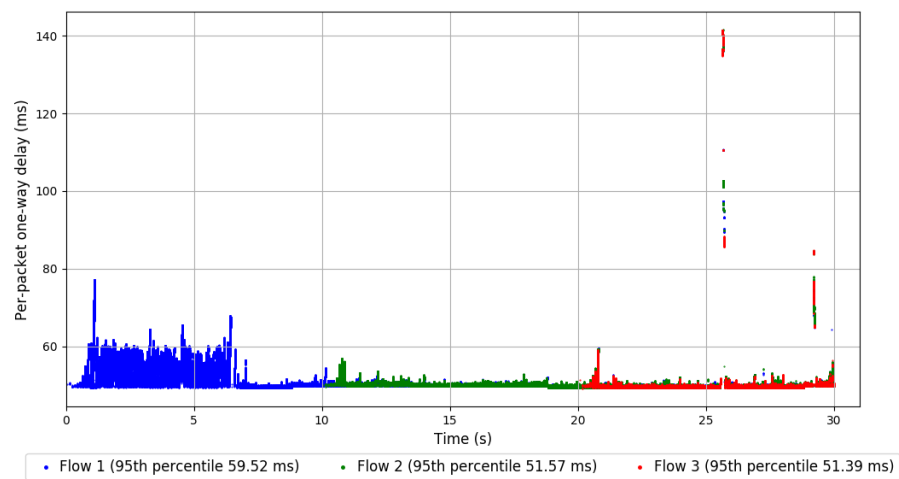
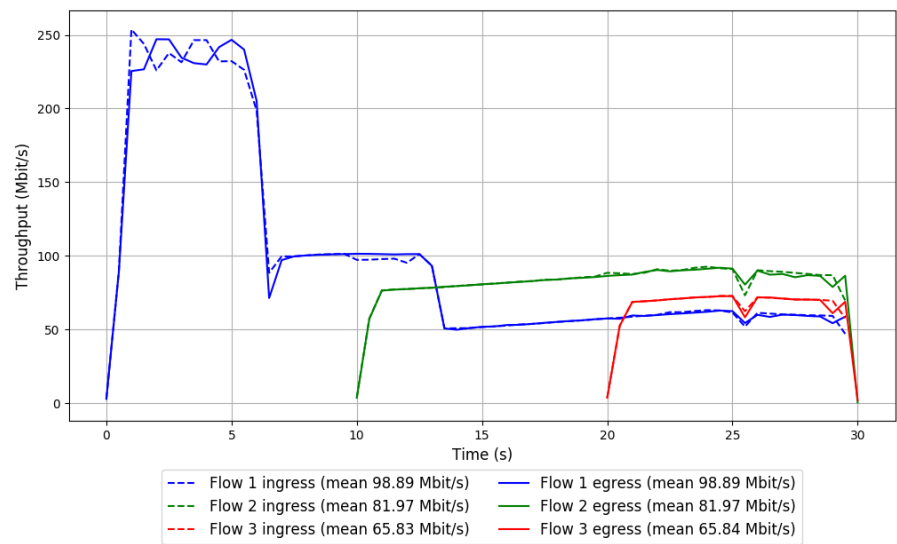
-- Flow 3:

Average throughput: 65.84 Mbit/s

95th percentile per-packet one-way delay: 51.391 ms

Loss rate: 0.00%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2017-12-12 07:28:08

End at: 2017-12-12 07:28:38

Below is generated by plot.py at 2017-12-12 11:10:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 148.51 Mbit/s

95th percentile per-packet one-way delay: 51.070 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 59.00 Mbit/s

95th percentile per-packet one-way delay: 50.856 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 114.79 Mbit/s

95th percentile per-packet one-way delay: 51.204 ms

Loss rate: 0.00%

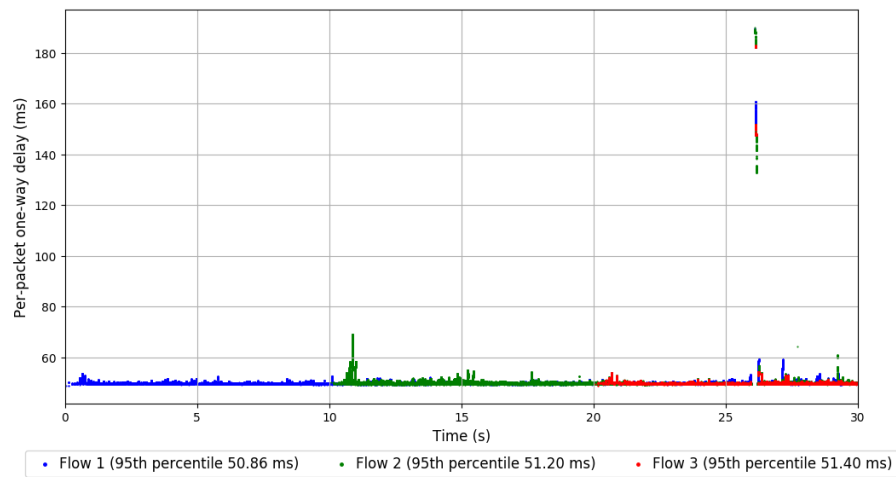
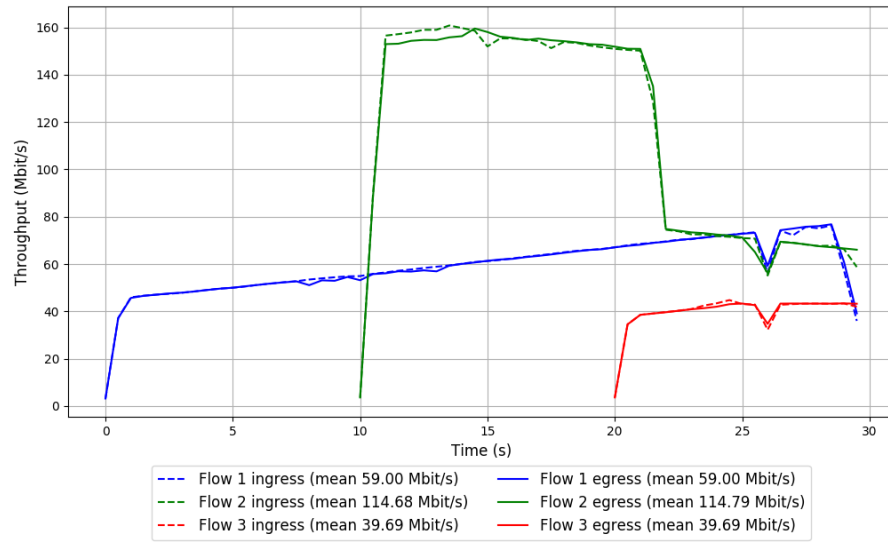
-- Flow 3:

Average throughput: 39.69 Mbit/s

95th percentile per-packet one-way delay: 51.398 ms

Loss rate: 0.00%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2017-12-12 07:40:21

End at: 2017-12-12 07:40:51

Below is generated by plot.py at 2017-12-12 11:10:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 124.18 Mbit/s

95th percentile per-packet one-way delay: 51.027 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 61.20 Mbit/s

95th percentile per-packet one-way delay: 50.878 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 40.29 Mbit/s

95th percentile per-packet one-way delay: 51.568 ms

Loss rate: 0.00%

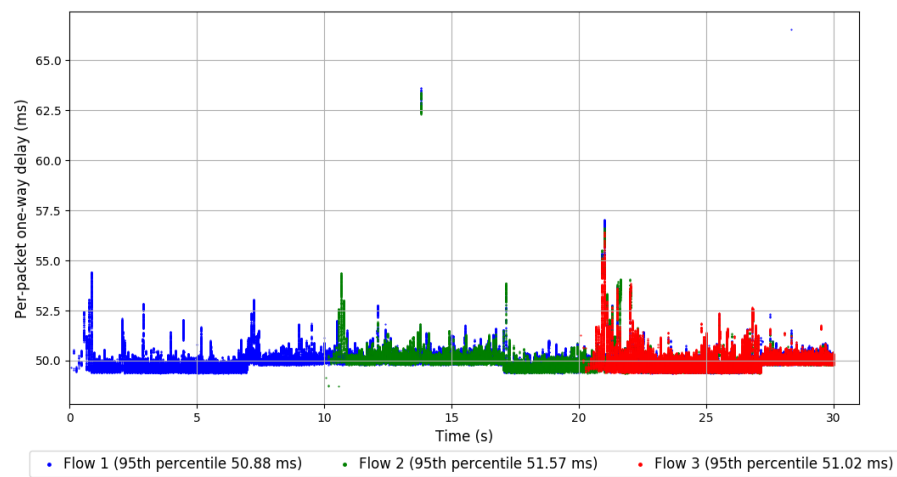
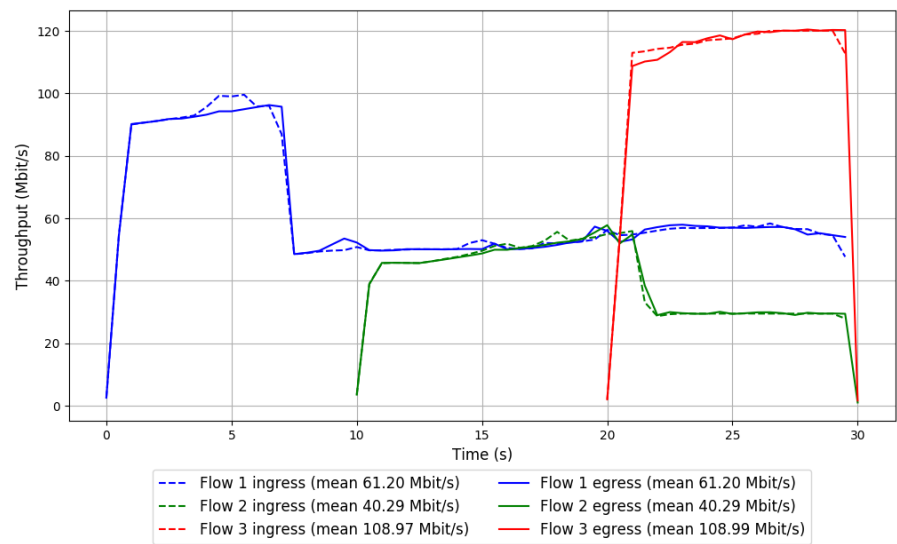
-- Flow 3:

Average throughput: 108.99 Mbit/s

95th percentile per-packet one-way delay: 51.021 ms

Loss rate: 0.00%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2017-12-12 07:52:19

End at: 2017-12-12 07:52:49

Below is generated by plot.py at 2017-12-12 11:10:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 257.62 Mbit/s

95th percentile per-packet one-way delay: 59.013 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 132.97 Mbit/s

95th percentile per-packet one-way delay: 58.266 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 79.52 Mbit/s

95th percentile per-packet one-way delay: 55.005 ms

Loss rate: 0.00%

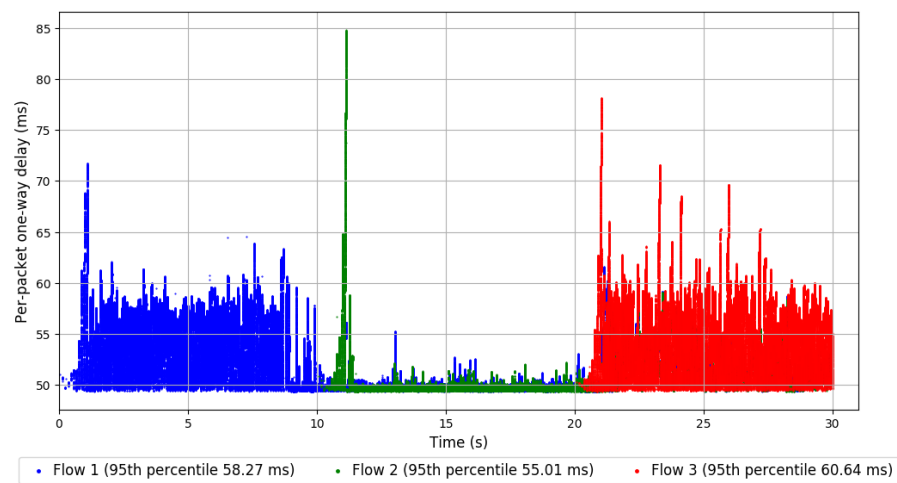
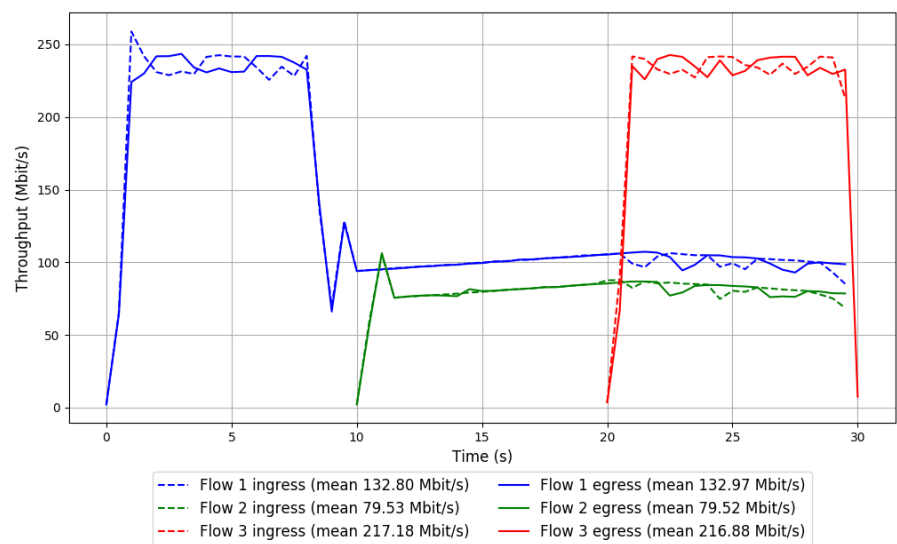
-- Flow 3:

Average throughput: 216.88 Mbit/s

95th percentile per-packet one-way delay: 60.641 ms

Loss rate: 0.13%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2017-12-12 08:04:28

End at: 2017-12-12 08:04:58

Below is generated by plot.py at 2017-12-12 11:10:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 232.32 Mbit/s

95th percentile per-packet one-way delay: 59.969 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 136.77 Mbit/s

95th percentile per-packet one-way delay: 60.278 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 46.71 Mbit/s

95th percentile per-packet one-way delay: 55.139 ms

Loss rate: 0.00%

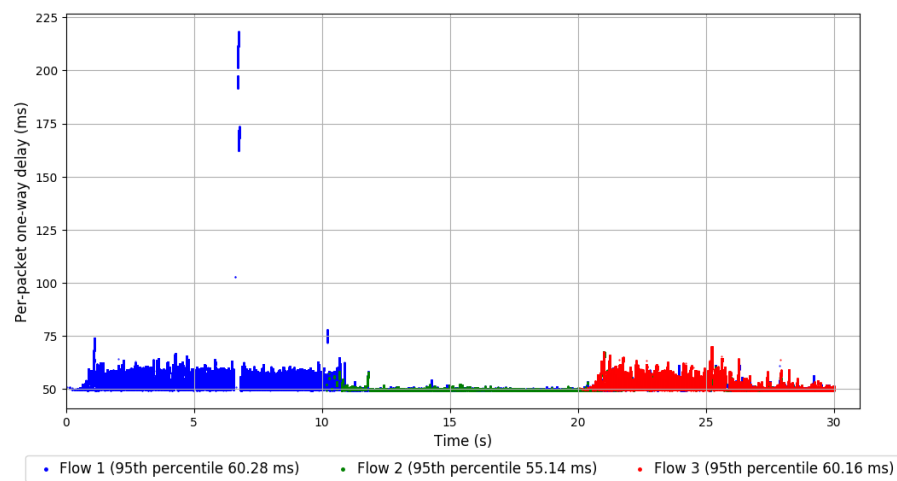
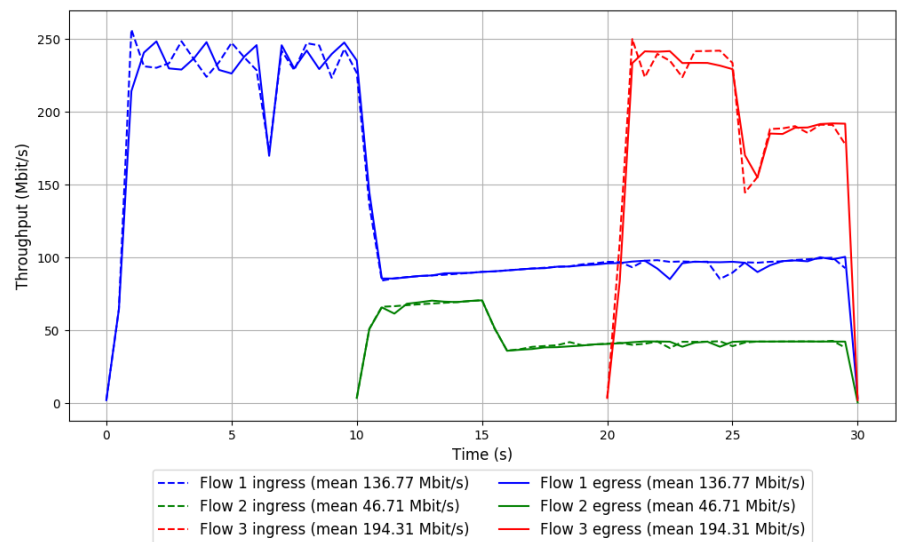
-- Flow 3:

Average throughput: 194.31 Mbit/s

95th percentile per-packet one-way delay: 60.162 ms

Loss rate: 0.00%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2017-12-12 08:16:23

End at: 2017-12-12 08:16:53

Below is generated by plot.py at 2017-12-12 11:10:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 180.78 Mbit/s

95th percentile per-packet one-way delay: 59.804 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 70.71 Mbit/s

95th percentile per-packet one-way delay: 57.908 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 102.14 Mbit/s

95th percentile per-packet one-way delay: 61.719 ms

Loss rate: 0.00%

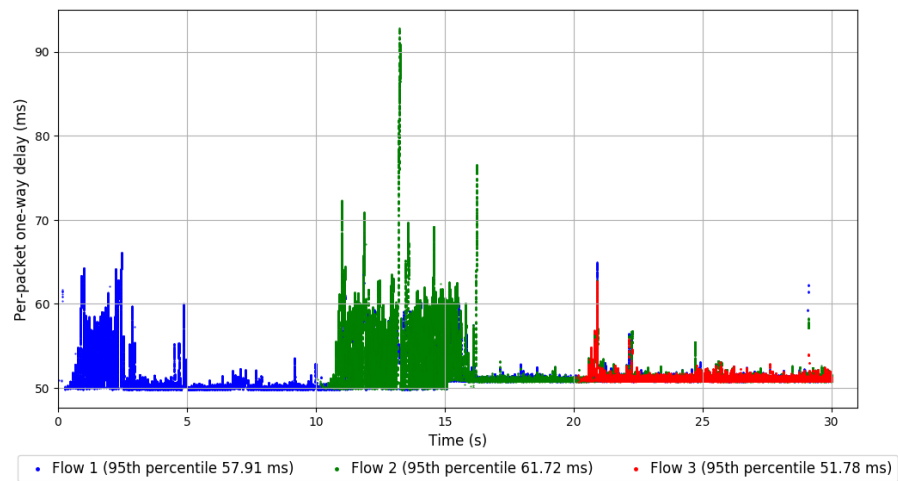
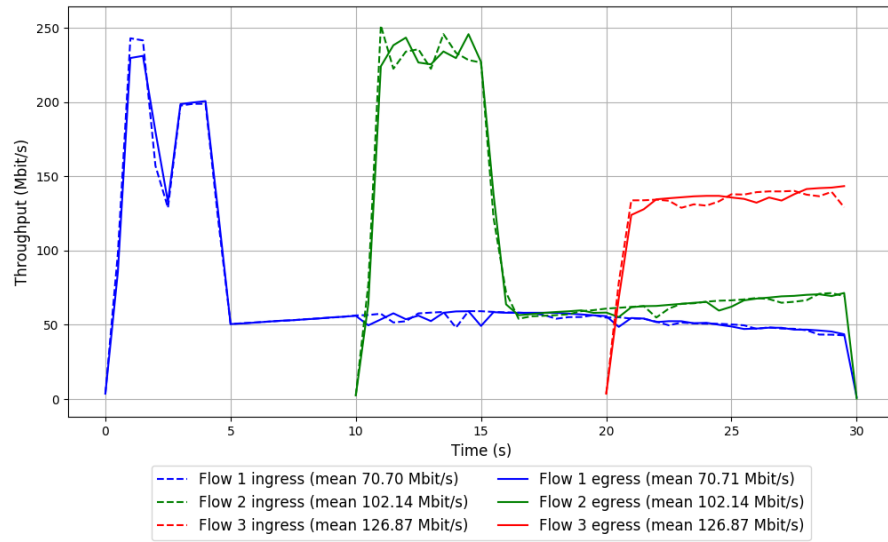
-- Flow 3:

Average throughput: 126.87 Mbit/s

95th percentile per-packet one-way delay: 51.783 ms

Loss rate: 0.00%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2017-12-12 08:28:34

End at: 2017-12-12 08:29:04

Below is generated by plot.py at 2017-12-12 11:10:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 244.13 Mbit/s

95th percentile per-packet one-way delay: 51.125 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 113.98 Mbit/s

95th percentile per-packet one-way delay: 51.090 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 161.00 Mbit/s

95th percentile per-packet one-way delay: 51.182 ms

Loss rate: 0.00%

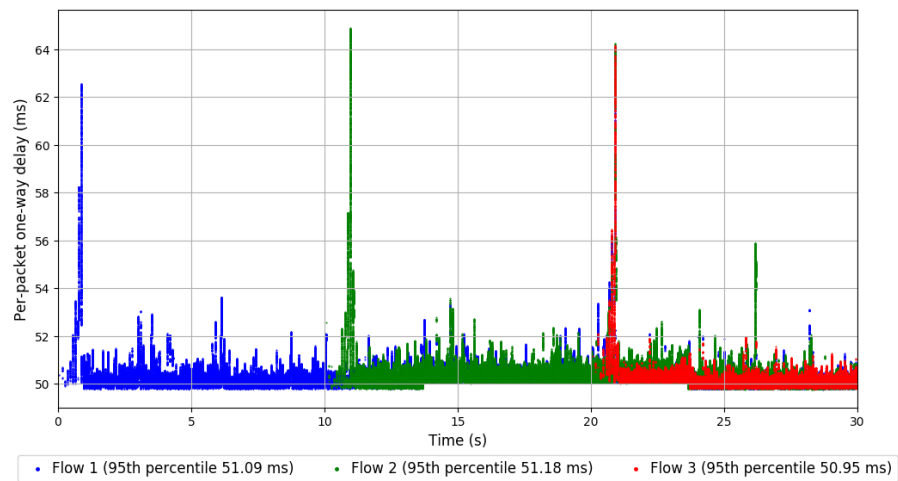
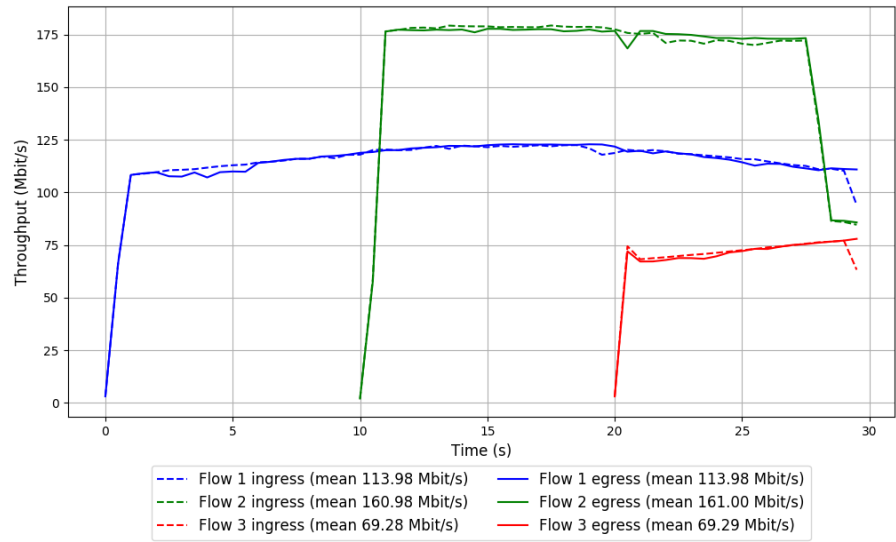
-- Flow 3:

Average throughput: 69.29 Mbit/s

95th percentile per-packet one-way delay: 50.954 ms

Loss rate: 0.00%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2017-12-12 08:40:39

End at: 2017-12-12 08:41:09

Below is generated by plot.py at 2017-12-12 11:10:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 173.91 Mbit/s

95th percentile per-packet one-way delay: 61.262 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 42.08 Mbit/s

95th percentile per-packet one-way delay: 56.213 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 187.47 Mbit/s

95th percentile per-packet one-way delay: 61.893 ms

Loss rate: 0.01%

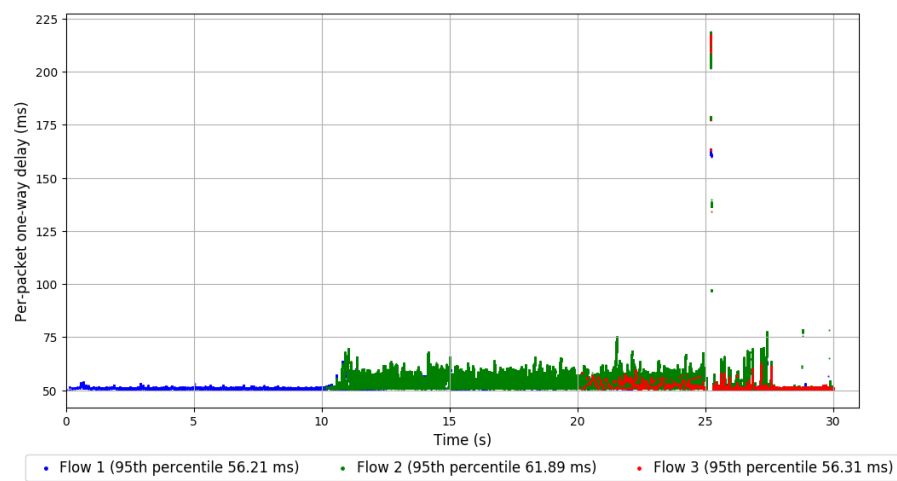
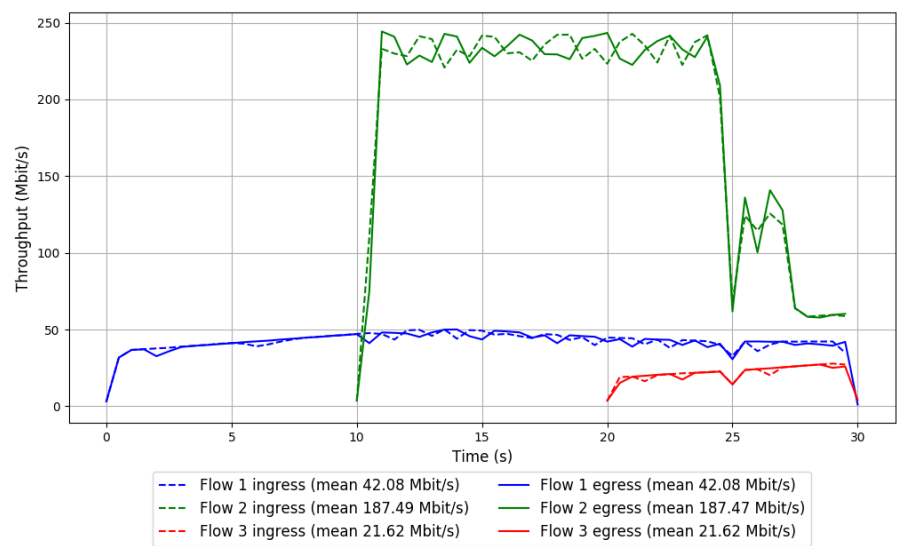
-- Flow 3:

Average throughput: 21.62 Mbit/s

95th percentile per-packet one-way delay: 56.315 ms

Loss rate: 0.02%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2017-12-12 08:52:55

End at: 2017-12-12 08:53:25

Below is generated by plot.py at 2017-12-12 11:10:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 149.26 Mbit/s

95th percentile per-packet one-way delay: 57.203 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 51.56 Mbit/s

95th percentile per-packet one-way delay: 53.239 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 87.91 Mbit/s

95th percentile per-packet one-way delay: 59.174 ms

Loss rate: 0.00%

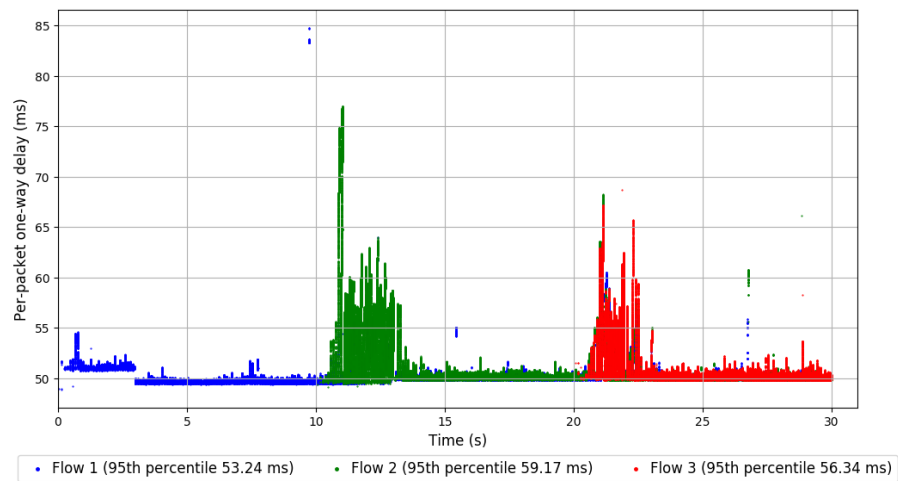
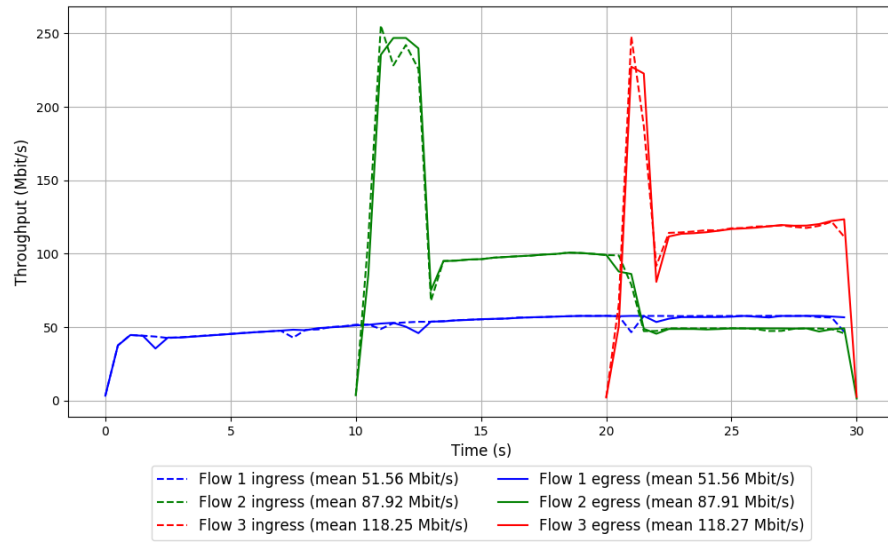
-- Flow 3:

Average throughput: 118.27 Mbit/s

95th percentile per-packet one-way delay: 56.345 ms

Loss rate: 0.00%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2017-12-12 07:02:13

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

Below is generated by plot.py at 2017-12-12 11:14:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 343.57 Mbit/s

95th percentile per-packet one-way delay: 126.920 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 192.16 Mbit/s

95th percentile per-packet one-way delay: 122.115 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 185.26 Mbit/s

95th percentile per-packet one-way delay: 162.024 ms

Loss rate: 0.11%

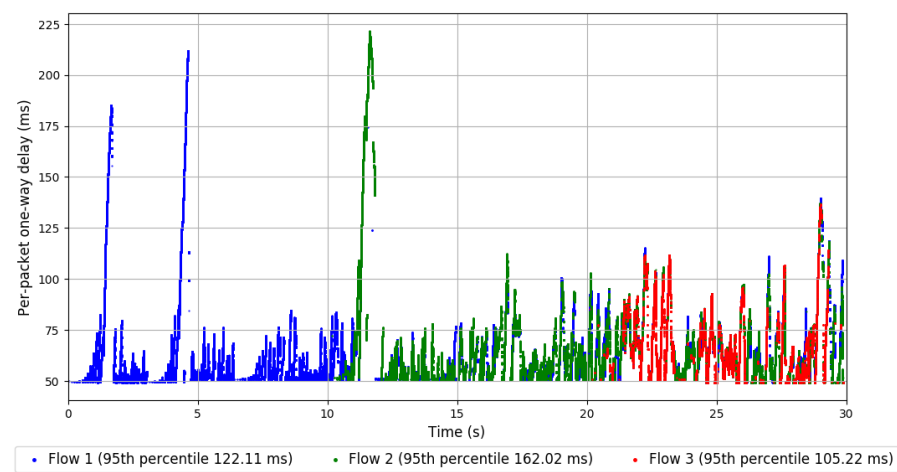
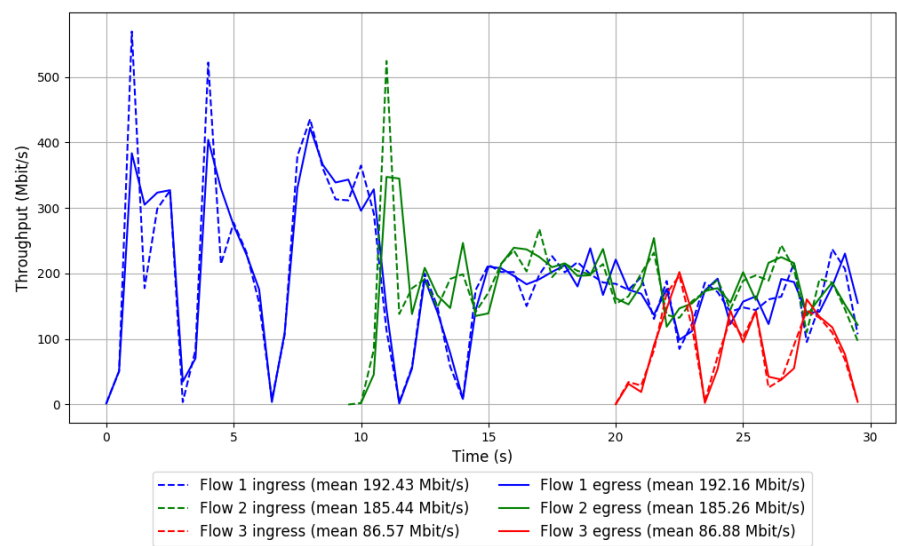
-- Flow 3:

Average throughput: 86.88 Mbit/s

95th percentile per-packet one-way delay: 105.222 ms

Loss rate: 0.00%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2017-12-12 07:14:26

End at: 2017-12-12 07:14:56

Below is generated by plot.py at 2017-12-12 11:14:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 295.14 Mbit/s

95th percentile per-packet one-way delay: 176.397 ms

Loss rate: 1.24%

-- Flow 1:

Average throughput: 163.81 Mbit/s

95th percentile per-packet one-way delay: 173.821 ms

Loss rate: 0.96%

-- Flow 2:

Average throughput: 132.89 Mbit/s

95th percentile per-packet one-way delay: 240.936 ms

Loss rate: 2.30%

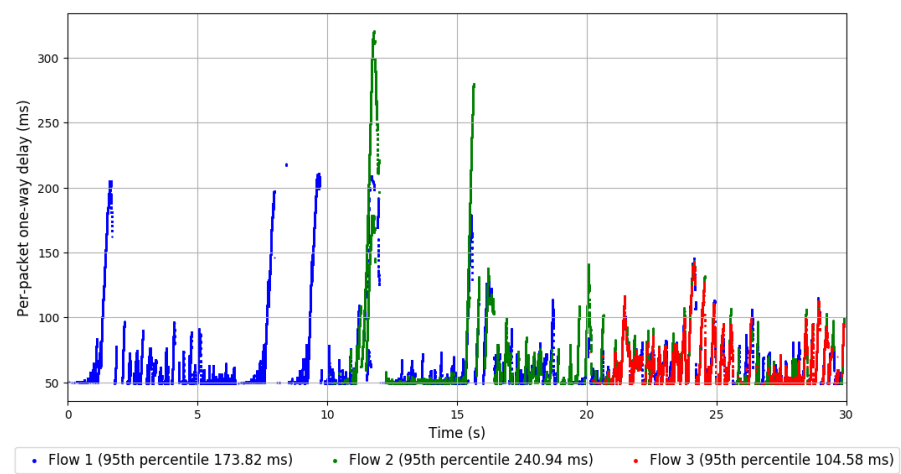
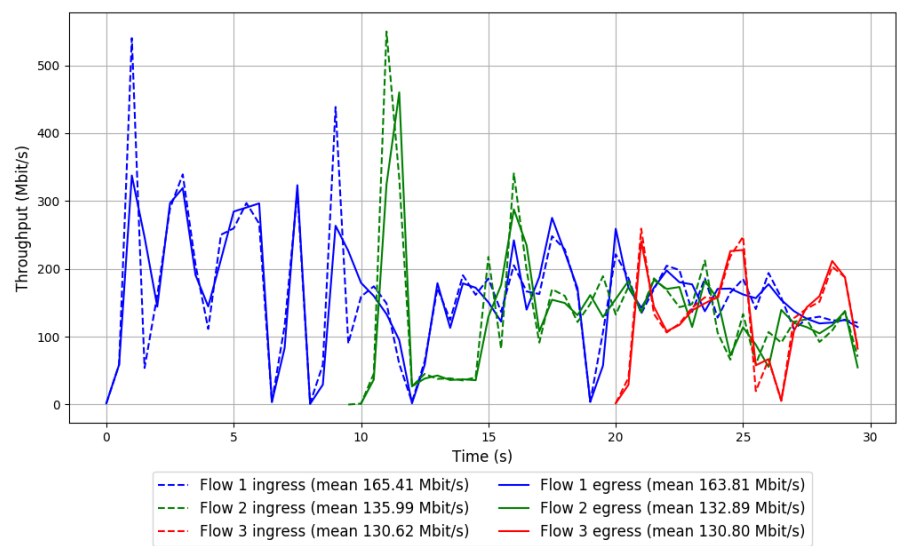
-- Flow 3:

Average throughput: 130.80 Mbit/s

95th percentile per-packet one-way delay: 104.584 ms

Loss rate: 0.08%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2017-12-12 07:26:25

End at: 2017-12-12 07:26:55

Below is generated by plot.py at 2017-12-12 11:14:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 317.56 Mbit/s

95th percentile per-packet one-way delay: 104.356 ms

Loss rate: 0.24%

-- Flow 1:

Average throughput: 194.68 Mbit/s

95th percentile per-packet one-way delay: 99.474 ms

Loss rate: 0.17%

-- Flow 2:

Average throughput: 121.83 Mbit/s

95th percentile per-packet one-way delay: 122.870 ms

Loss rate: 0.42%

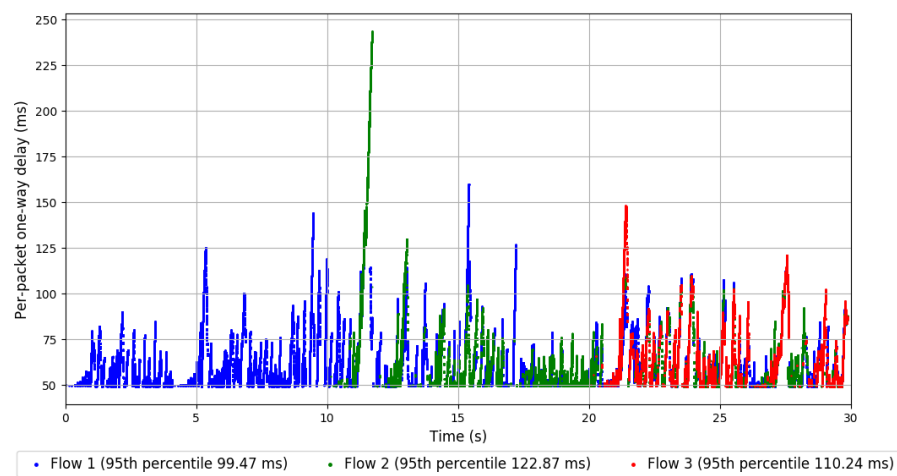
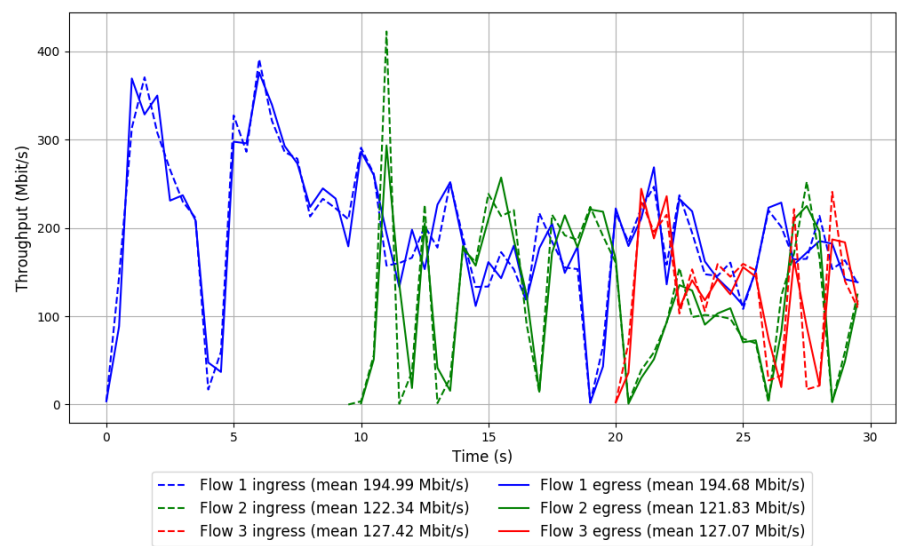
-- Flow 3:

Average throughput: 127.07 Mbit/s

95th percentile per-packet one-way delay: 110.244 ms

Loss rate: 0.25%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2017-12-12 07:38:36

End at: 2017-12-12 07:39:06

Below is generated by plot.py at 2017-12-12 11:14:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 313.09 Mbit/s

95th percentile per-packet one-way delay: 113.329 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 181.78 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 152.74 Mbit/s

95th percentile per-packet one-way delay: 103.190 ms

Loss rate: 0.01%

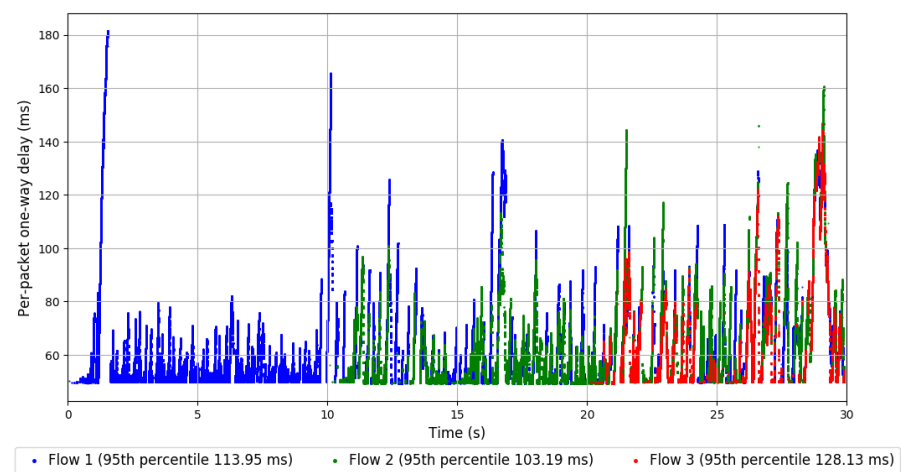
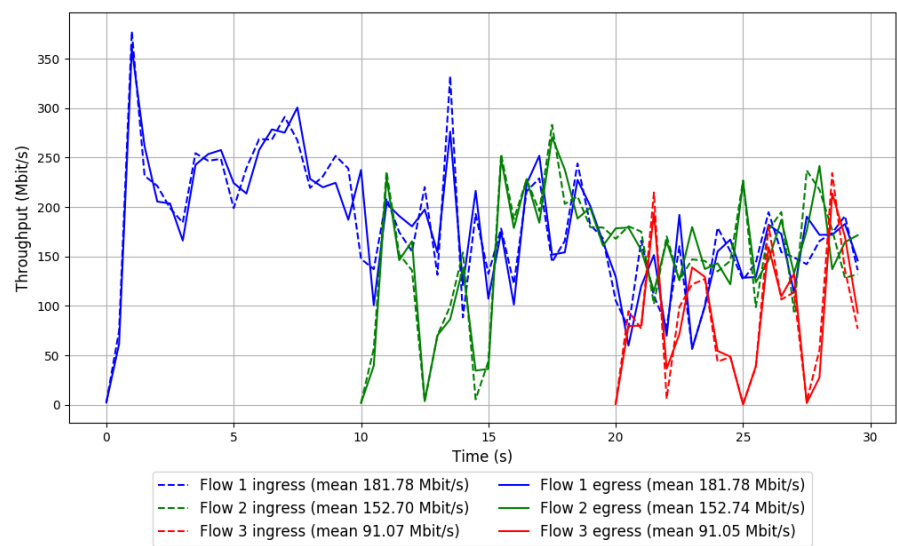
-- Flow 3:

Average throughput: 91.05 Mbit/s

95th percentile per-packet one-way delay: 128.130 ms

Loss rate: 0.02%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2017-12-12 07:50:36

End at: 2017-12-12 07:51:06

Below is generated by plot.py at 2017-12-12 11:14:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 301.50 Mbit/s

95th percentile per-packet one-way delay: 148.181 ms

Loss rate: 2.02%

-- Flow 1:

Average throughput: 186.20 Mbit/s

95th percentile per-packet one-way delay: 195.055 ms

Loss rate: 3.11%

-- Flow 2:

Average throughput: 152.34 Mbit/s

95th percentile per-packet one-way delay: 104.206 ms

Loss rate: 0.25%

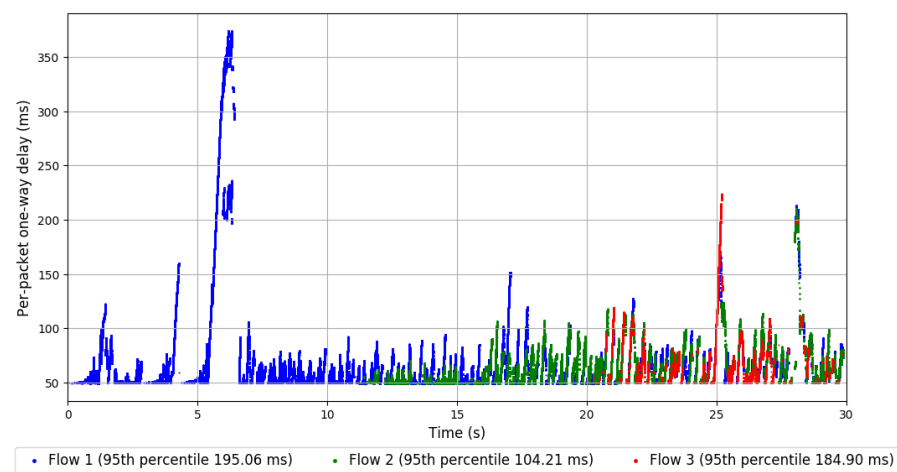
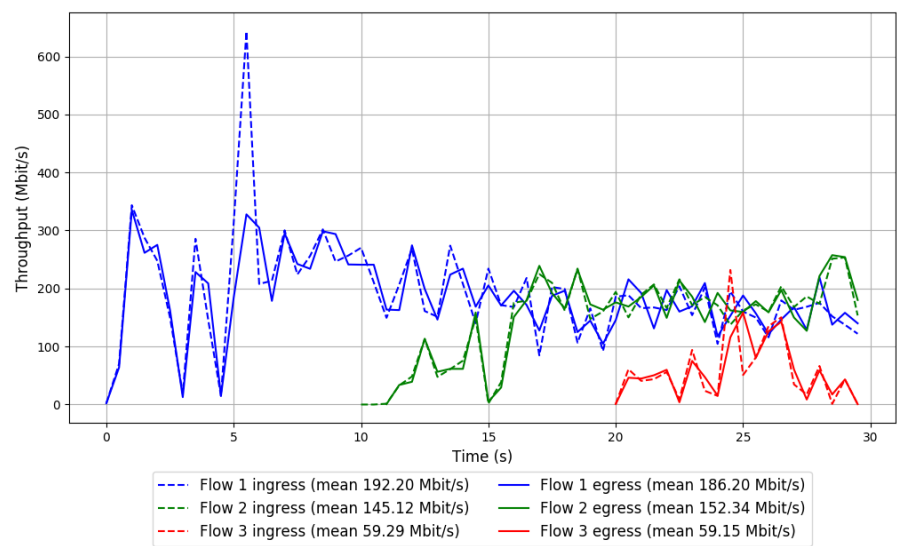
-- Flow 3:

Average throughput: 59.15 Mbit/s

95th percentile per-packet one-way delay: 184.898 ms

Loss rate: 0.00%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2017-12-12 08:02:43

End at: 2017-12-12 08:03:13

Below is generated by plot.py at 2017-12-12 11:15:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 327.24 Mbit/s

95th percentile per-packet one-way delay: 100.917 ms

Loss rate: 0.88%

-- Flow 1:

Average throughput: 210.17 Mbit/s

95th percentile per-packet one-way delay: 102.726 ms

Loss rate: 1.06%

-- Flow 2:

Average throughput: 146.12 Mbit/s

95th percentile per-packet one-way delay: 94.024 ms

Loss rate: 0.00%

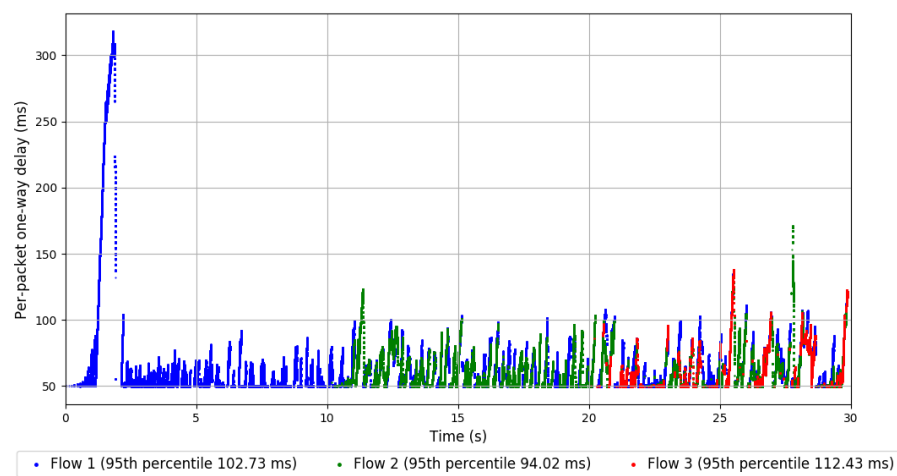
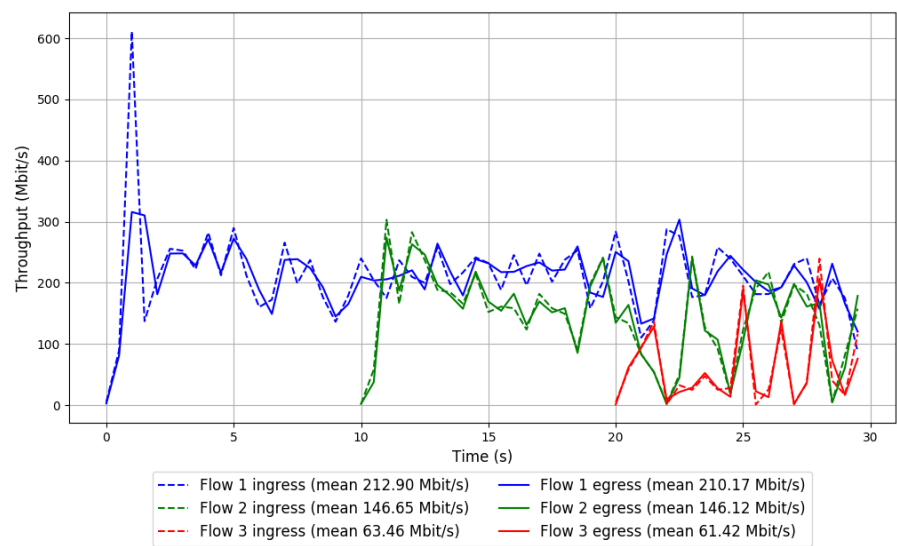
-- Flow 3:

Average throughput: 61.42 Mbit/s

95th percentile per-packet one-way delay: 112.427 ms

Loss rate: 3.23%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2017-12-12 08:14:37

End at: 2017-12-12 08:15:07

Below is generated by plot.py at 2017-12-12 11:15:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 346.43 Mbit/s

95th percentile per-packet one-way delay: 113.275 ms

Loss rate: 0.46%

-- Flow 1:

Average throughput: 212.21 Mbit/s

95th percentile per-packet one-way delay: 129.511 ms

Loss rate: 0.74%

-- Flow 2:

Average throughput: 169.17 Mbit/s

95th percentile per-packet one-way delay: 95.661 ms

Loss rate: 0.01%

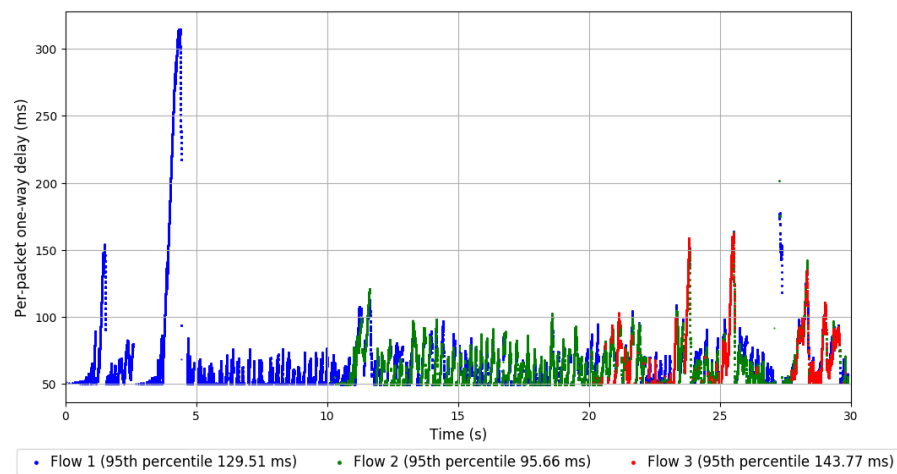
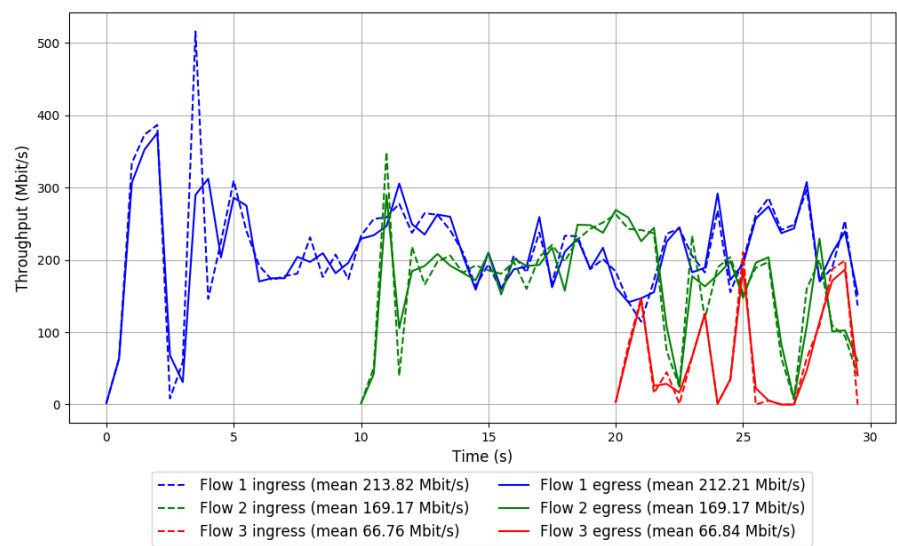
-- Flow 3:

Average throughput: 66.84 Mbit/s

95th percentile per-packet one-way delay: 143.773 ms

Loss rate: 0.01%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2017-12-12 08:26:52

End at: 2017-12-12 08:27:22

Below is generated by plot.py at 2017-12-12 11:16:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 327.08 Mbit/s

95th percentile per-packet one-way delay: 183.171 ms

Loss rate: 0.54%

-- Flow 1:

Average throughput: 217.10 Mbit/s

95th percentile per-packet one-way delay: 191.735 ms

Loss rate: 0.49%

-- Flow 2:

Average throughput: 113.04 Mbit/s

95th percentile per-packet one-way delay: 157.494 ms

Loss rate: 0.51%

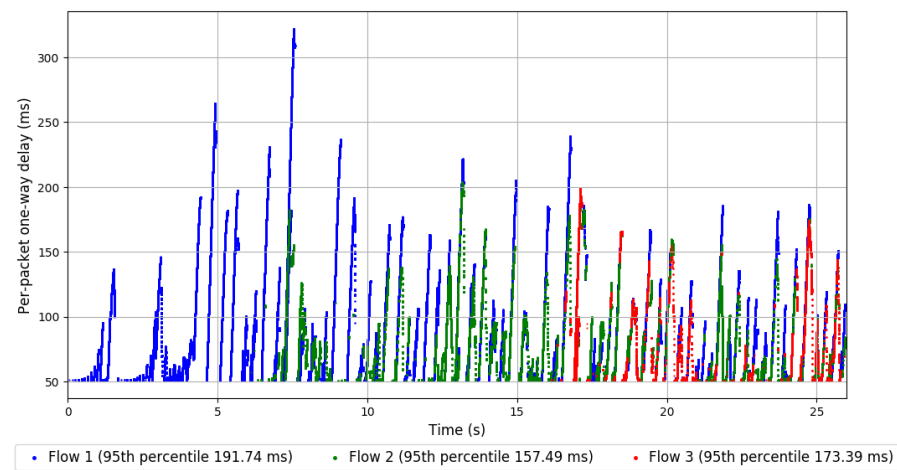
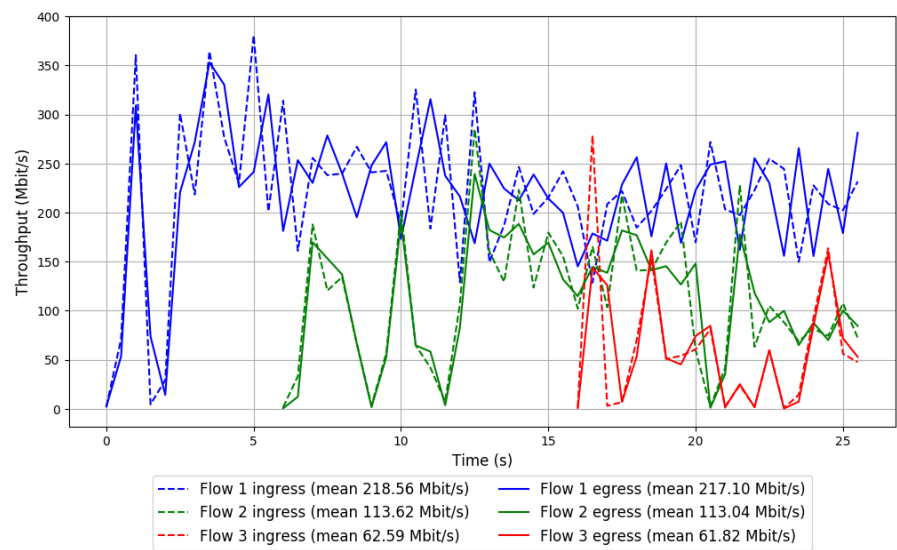
-- Flow 3:

Average throughput: 61.82 Mbit/s

95th percentile per-packet one-way delay: 173.386 ms

Loss rate: 1.04%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2017-12-12 08:39:01

End at: 2017-12-12 08:39:31

Below is generated by plot.py at 2017-12-12 11:18:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 254.62 Mbit/s

95th percentile per-packet one-way delay: 197.389 ms

Loss rate: 2.06%

-- Flow 1:

Average throughput: 91.22 Mbit/s

95th percentile per-packet one-way delay: 242.408 ms

Loss rate: 3.14%

-- Flow 2:

Average throughput: 169.07 Mbit/s

95th percentile per-packet one-way delay: 185.115 ms

Loss rate: 0.86%

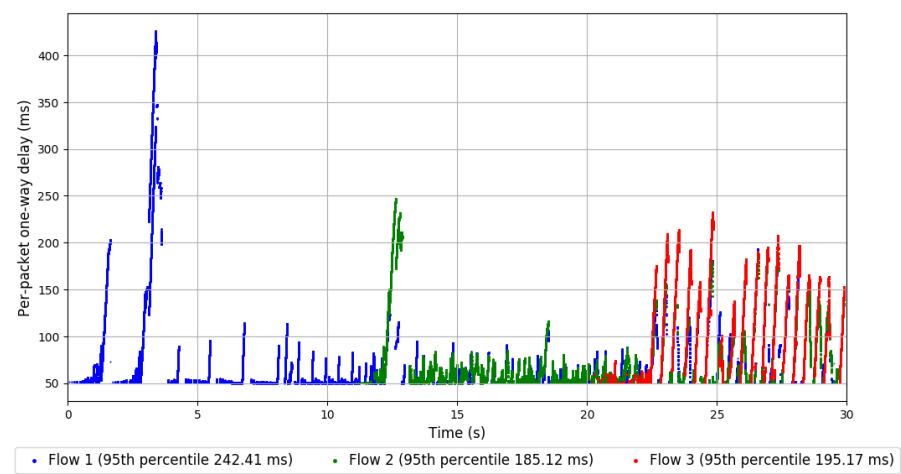
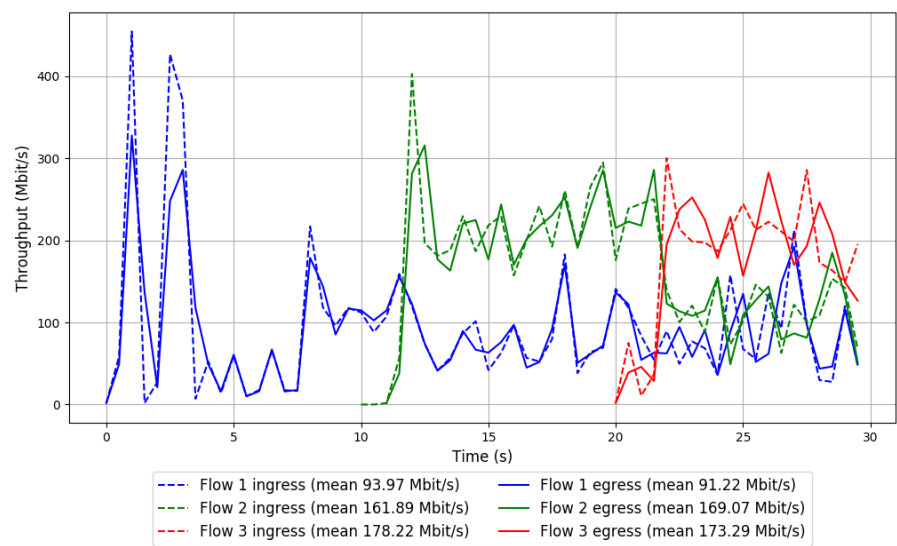
-- Flow 3:

Average throughput: 173.29 Mbit/s

95th percentile per-packet one-way delay: 195.167 ms

Loss rate: 2.54%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2017-12-12 08:51:08

End at: 2017-12-12 08:51:38

Below is generated by plot.py at 2017-12-12 11:20:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 356.88 Mbit/s

95th percentile per-packet one-way delay: 207.575 ms

Loss rate: 2.34%

-- Flow 1:

Average throughput: 195.14 Mbit/s

95th percentile per-packet one-way delay: 176.718 ms

Loss rate: 2.00%

-- Flow 2:

Average throughput: 176.55 Mbit/s

95th percentile per-packet one-way delay: 220.503 ms

Loss rate: 2.59%

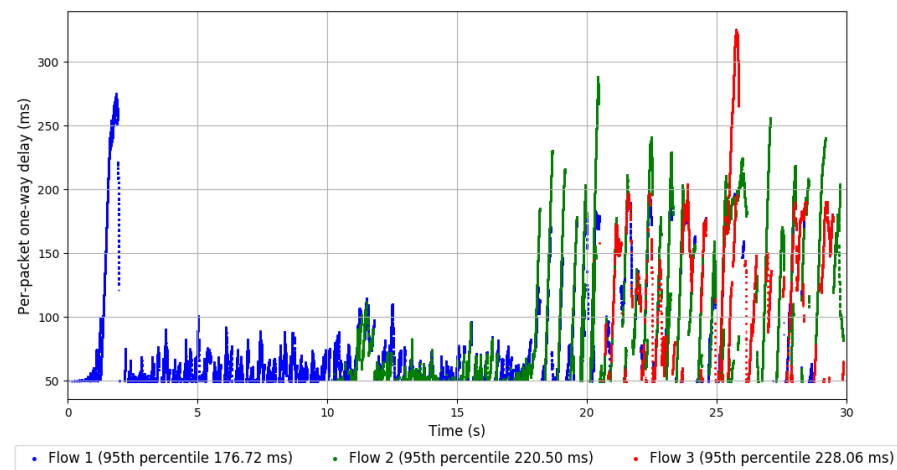
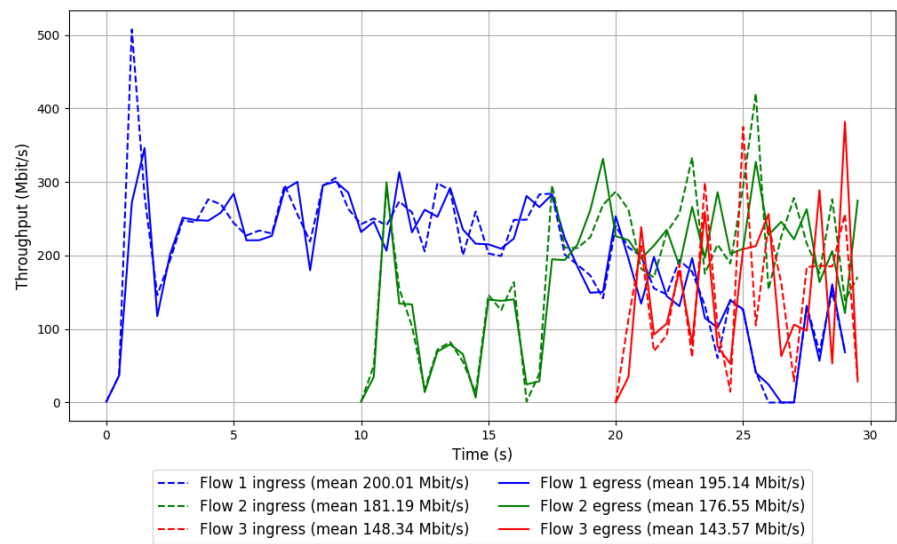
-- Flow 3:

Average throughput: 143.57 Mbit/s

95th percentile per-packet one-way delay: 228.062 ms

Loss rate: 3.07%

Run 10: Report of Verus — Data Link

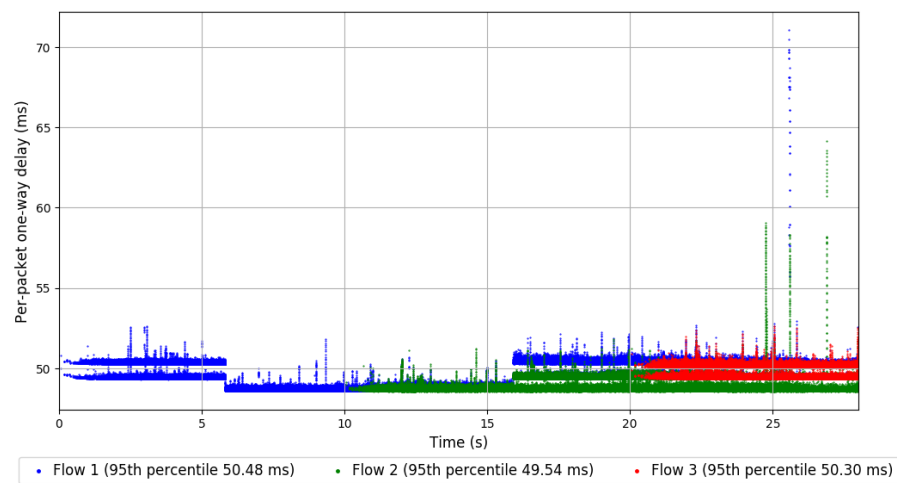
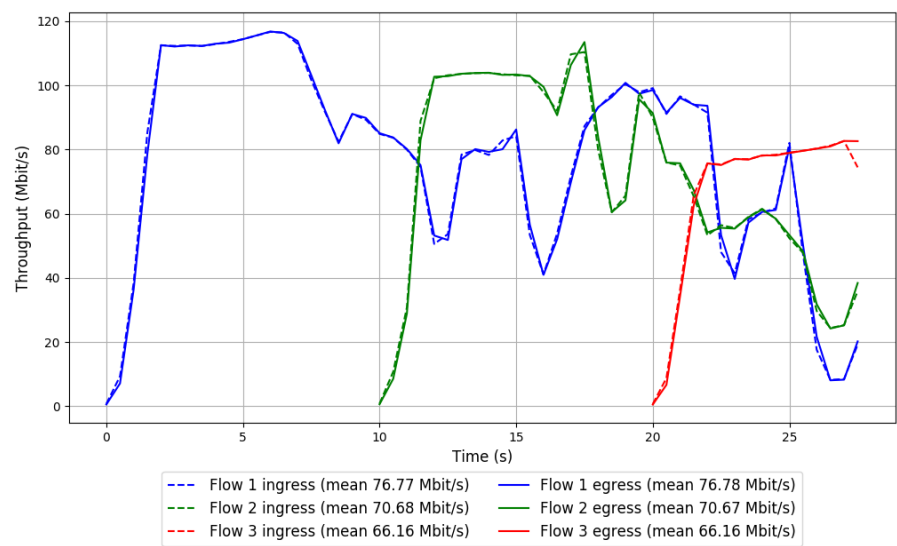


```
Run 1: Statistics of Copa

Start at: 2017-12-12 07:01:20
End at: 2017-12-12 07:01:50

# Below is generated by plot.py at 2017-12-12 11:20:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 140.93 Mbit/s
95th percentile per-packet one-way delay: 50.435 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 76.78 Mbit/s
95th percentile per-packet one-way delay: 50.481 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 70.67 Mbit/s
95th percentile per-packet one-way delay: 49.544 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 66.16 Mbit/s
95th percentile per-packet one-way delay: 50.301 ms
Loss rate: 0.00%
```

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2017-12-12 07:13:33

End at: 2017-12-12 07:14:03

Below is generated by plot.py at 2017-12-12 11:20:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 140.76 Mbit/s

95th percentile per-packet one-way delay: 50.280 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 83.07 Mbit/s

95th percentile per-packet one-way delay: 49.781 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 68.87 Mbit/s

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

Loss rate: 0.00%

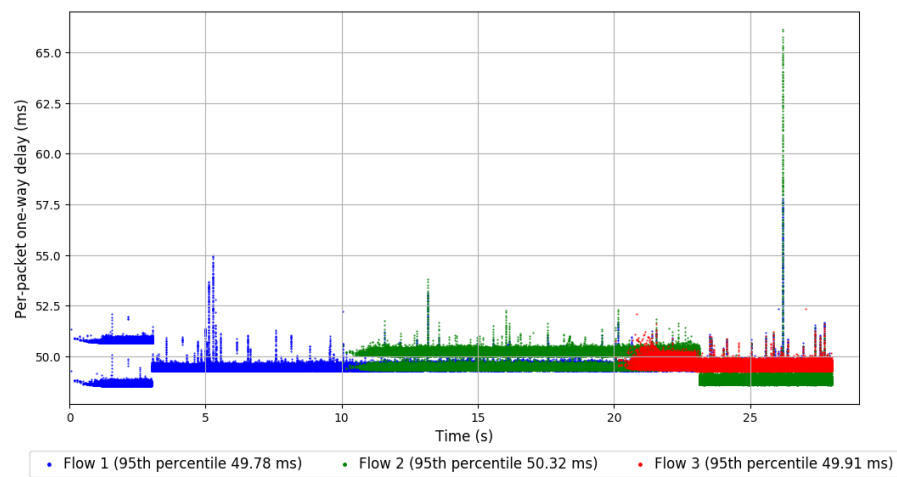
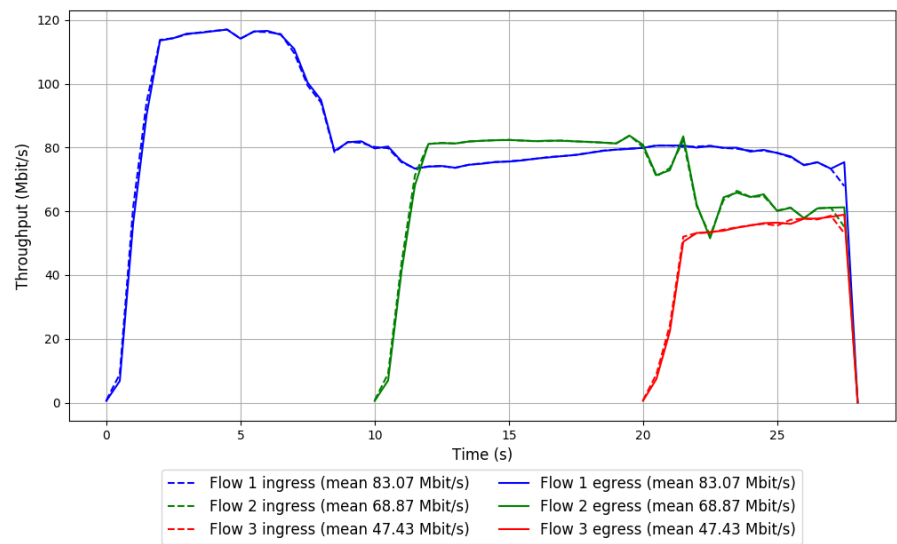
-- Flow 3:

Average throughput: 47.43 Mbit/s

95th percentile per-packet one-way delay: 49.908 ms

Loss rate: 0.00%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2017-12-12 07:25:32

End at: 2017-12-12 07:26:02

Below is generated by plot.py at 2017-12-12 11:20:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 136.92 Mbit/s

95th percentile per-packet one-way delay: 50.774 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 69.89 Mbit/s

95th percentile per-packet one-way delay: 50.762 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 70.77 Mbit/s

95th percentile per-packet one-way delay: 50.811 ms

Loss rate: 0.00%

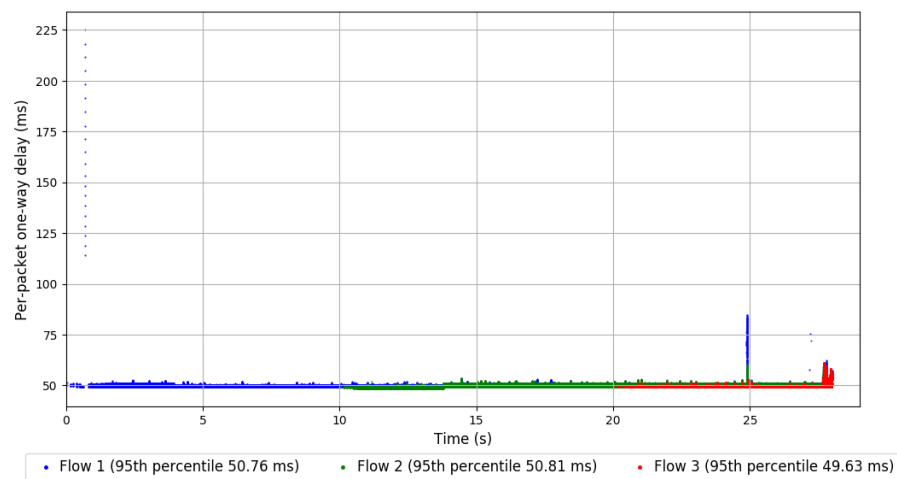
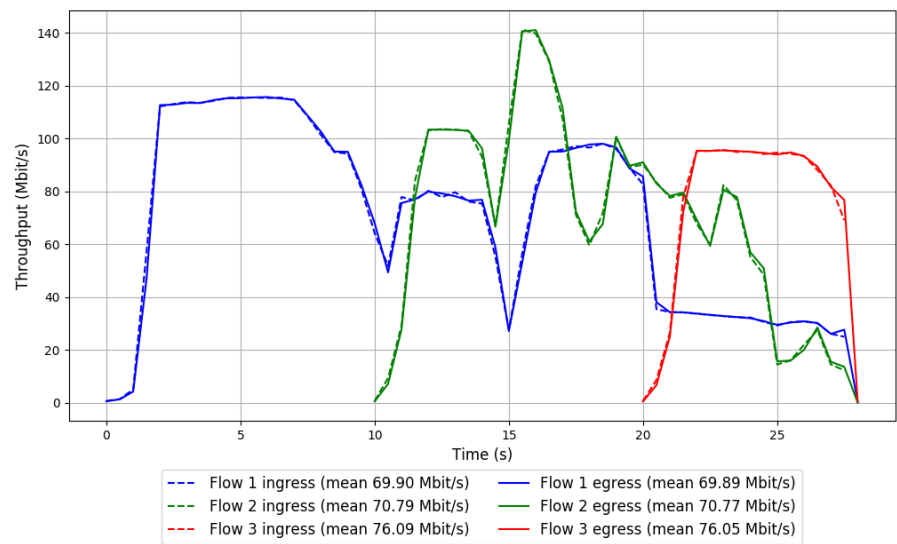
-- Flow 3:

Average throughput: 76.05 Mbit/s

95th percentile per-packet one-way delay: 49.633 ms

Loss rate: 0.00%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2017-12-12 07:37:44

End at: 2017-12-12 07:38:14

Below is generated by plot.py at 2017-12-12 11:20:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 137.22 Mbit/s

95th percentile per-packet one-way delay: 49.616 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 74.01 Mbit/s

95th percentile per-packet one-way delay: 49.635 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 62.98 Mbit/s

95th percentile per-packet one-way delay: 49.604 ms

Loss rate: 0.00%

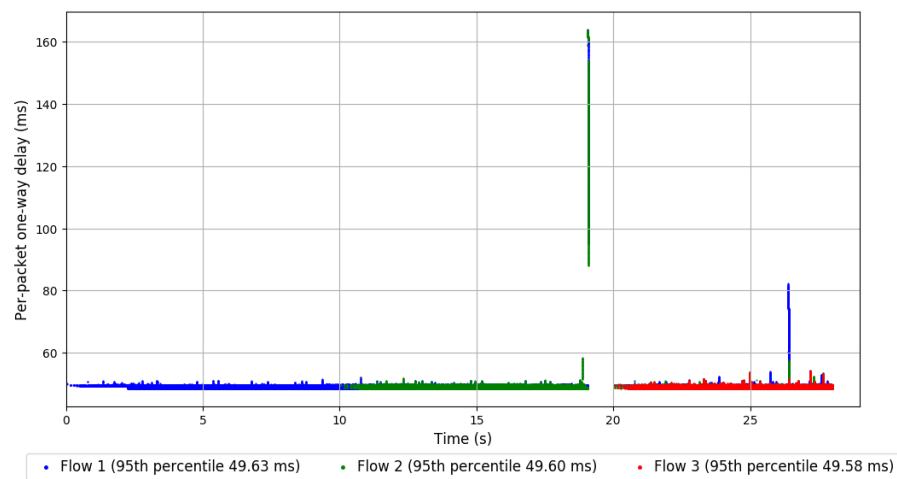
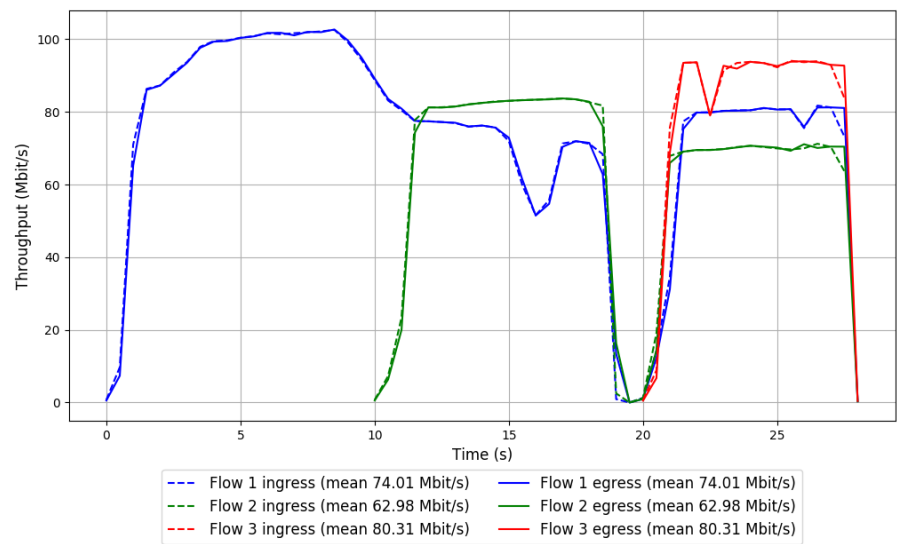
-- Flow 3:

Average throughput: 80.31 Mbit/s

95th percentile per-packet one-way delay: 49.579 ms

Loss rate: 0.00%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2017-12-12 07:49:43

End at: 2017-12-12 07:50:13

Below is generated by plot.py at 2017-12-12 11:20:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 139.33 Mbit/s

95th percentile per-packet one-way delay: 50.494 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 81.45 Mbit/s

95th percentile per-packet one-way delay: 50.458 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 70.11 Mbit/s

95th percentile per-packet one-way delay: 50.562 ms

Loss rate: 0.00%

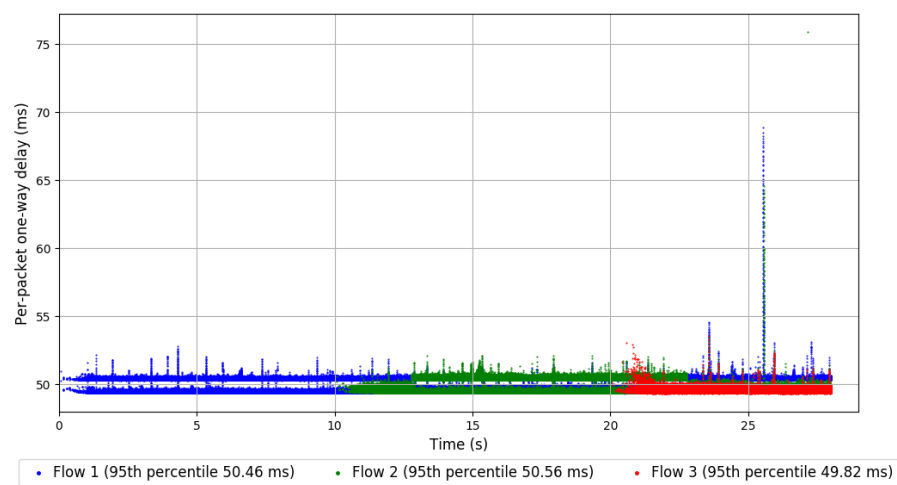
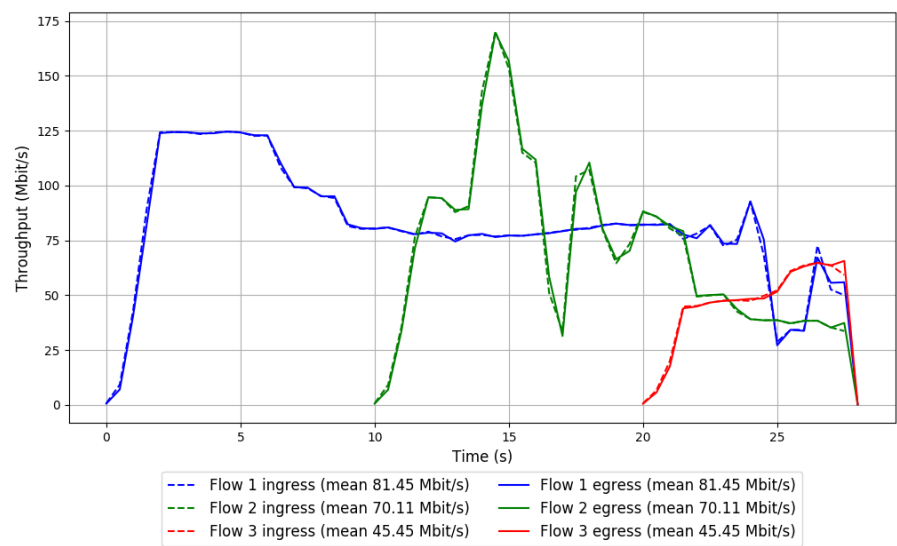
-- Flow 3:

Average throughput: 45.45 Mbit/s

95th percentile per-packet one-way delay: 49.817 ms

Loss rate: 0.00%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2017-12-12 08:01:53

End at: 2017-12-12 08:02:23

Below is generated by plot.py at 2017-12-12 11:20:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 108.27 Mbit/s

95th percentile per-packet one-way delay: 49.754 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 83.76 Mbit/s

95th percentile per-packet one-way delay: 49.770 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.01 Mbit/s

95th percentile per-packet one-way delay: 92.926 ms

Loss rate: 46.17%

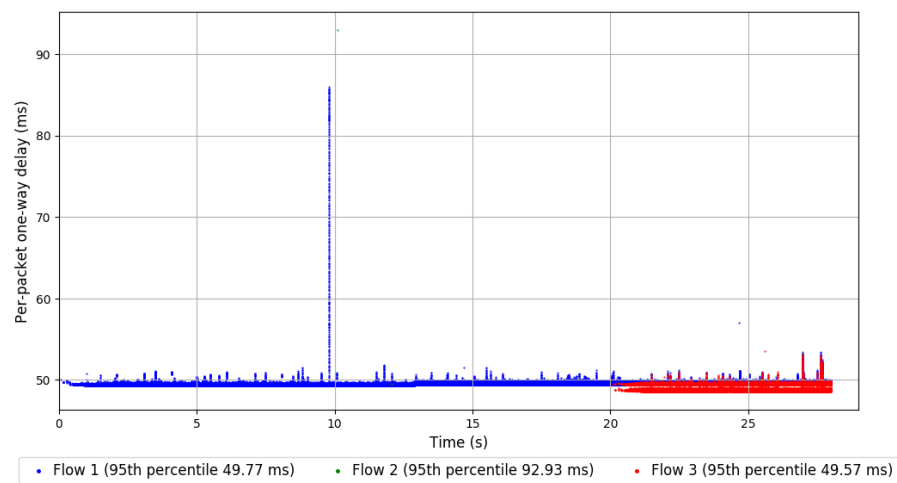
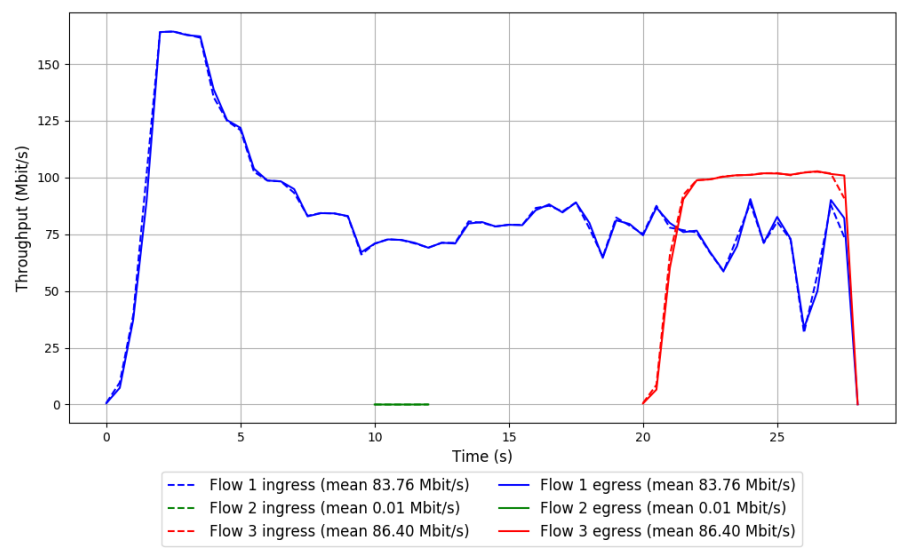
-- Flow 3:

Average throughput: 86.40 Mbit/s

95th percentile per-packet one-way delay: 49.569 ms

Loss rate: 0.00%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2017-12-12 08:13:44

End at: 2017-12-12 08:14:14

Below is generated by plot.py at 2017-12-12 11:22:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 143.09 Mbit/s

95th percentile per-packet one-way delay: 50.965 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 72.49 Mbit/s

95th percentile per-packet one-way delay: 50.966 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 84.84 Mbit/s

95th percentile per-packet one-way delay: 50.966 ms

Loss rate: 0.00%

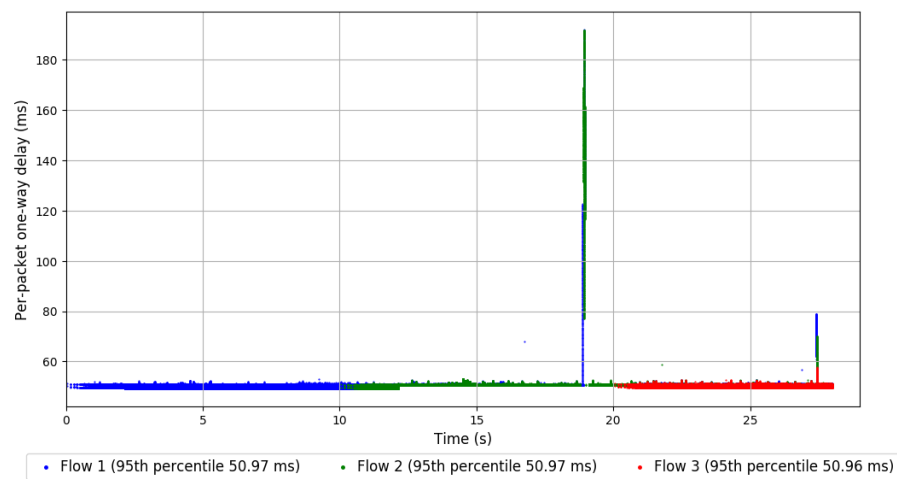
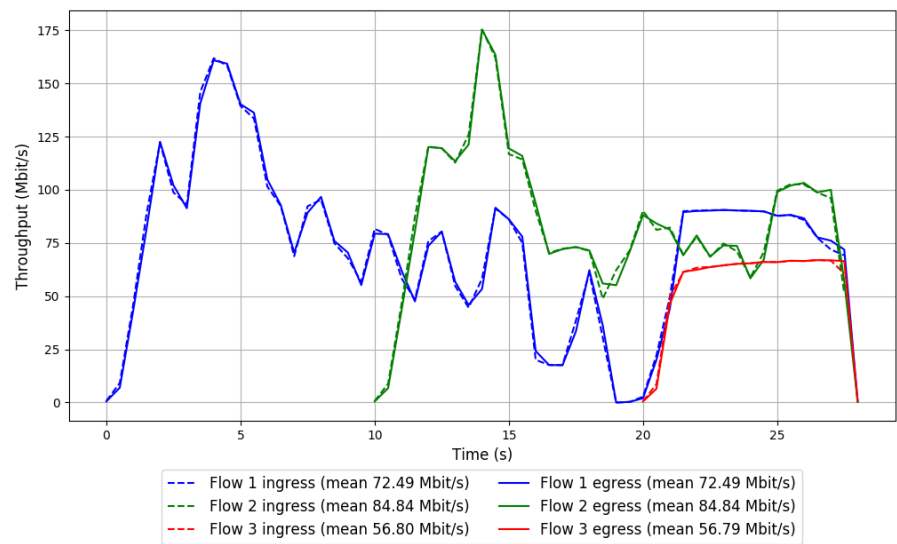
-- Flow 3:

Average throughput: 56.79 Mbit/s

95th percentile per-packet one-way delay: 50.962 ms

Loss rate: 0.02%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2017-12-12 08:25:59

End at: 2017-12-12 08:26:29

Below is generated by plot.py at 2017-12-12 11:22:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 138.98 Mbit/s

95th percentile per-packet one-way delay: 50.979 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 74.26 Mbit/s

95th percentile per-packet one-way delay: 50.976 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 71.19 Mbit/s

95th percentile per-packet one-way delay: 50.952 ms

Loss rate: 0.00%

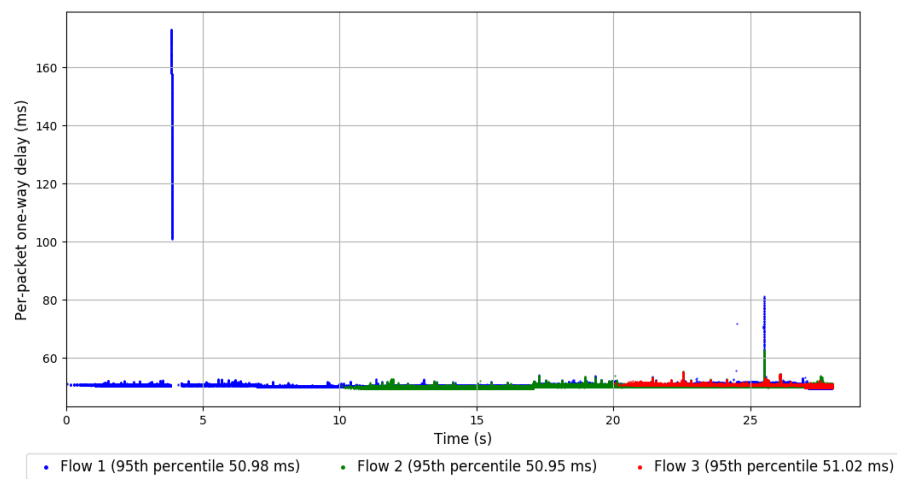
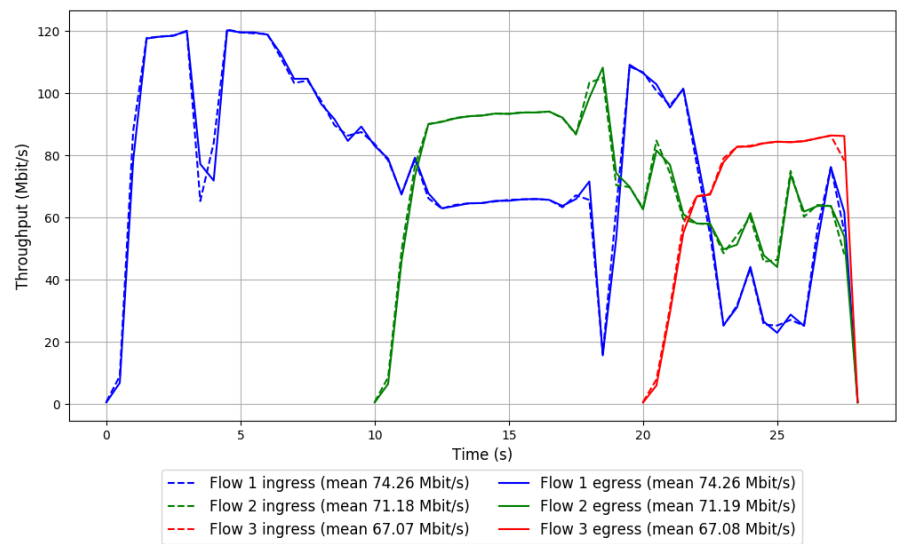
-- Flow 3:

Average throughput: 67.08 Mbit/s

95th percentile per-packet one-way delay: 51.024 ms

Loss rate: 0.01%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2017-12-12 08:38:09

End at: 2017-12-12 08:38:39

Below is generated by plot.py at 2017-12-12 11:22:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 129.83 Mbit/s

95th percentile per-packet one-way delay: 50.999 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 74.17 Mbit/s

95th percentile per-packet one-way delay: 51.011 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 84.92 Mbit/s

95th percentile per-packet one-way delay: 50.981 ms

Loss rate: 0.00%

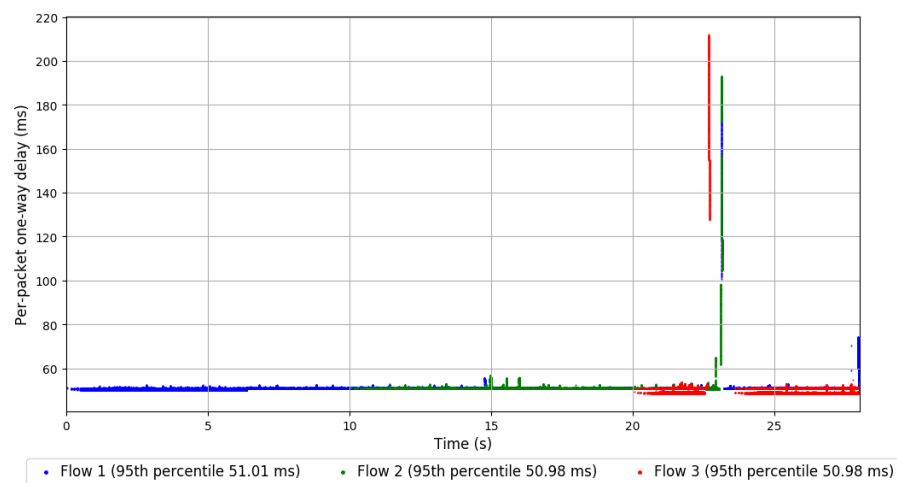
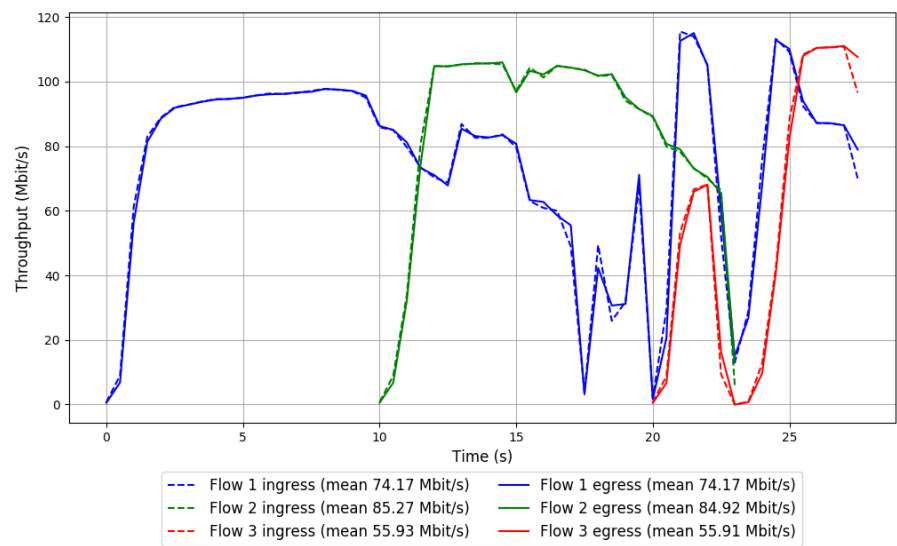
-- Flow 3:

Average throughput: 55.91 Mbit/s

95th percentile per-packet one-way delay: 50.978 ms

Loss rate: 0.00%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2017-12-12 08:50:14

End at: 2017-12-12 08:50:44

Below is generated by plot.py at 2017-12-12 11:23:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 151.70 Mbit/s

95th percentile per-packet one-way delay: 50.982 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 80.19 Mbit/s

95th percentile per-packet one-way delay: 50.985 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 78.67 Mbit/s

95th percentile per-packet one-way delay: 50.961 ms

Loss rate: 0.00%

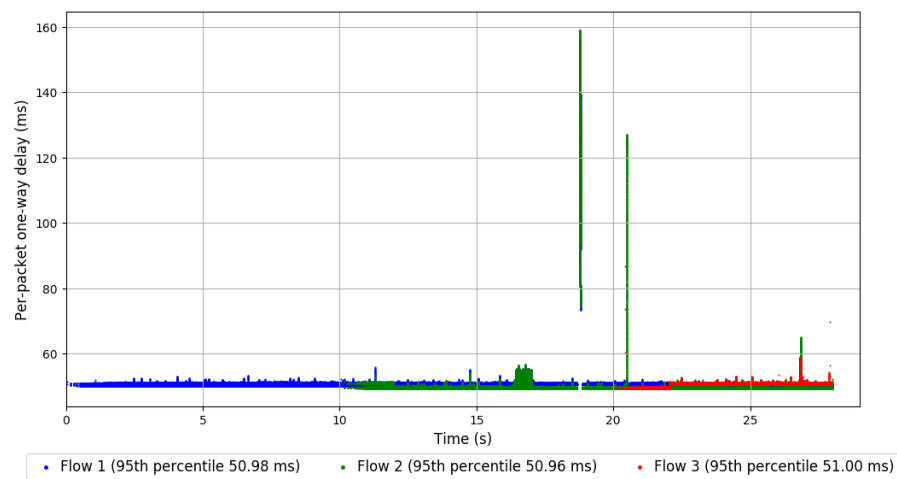
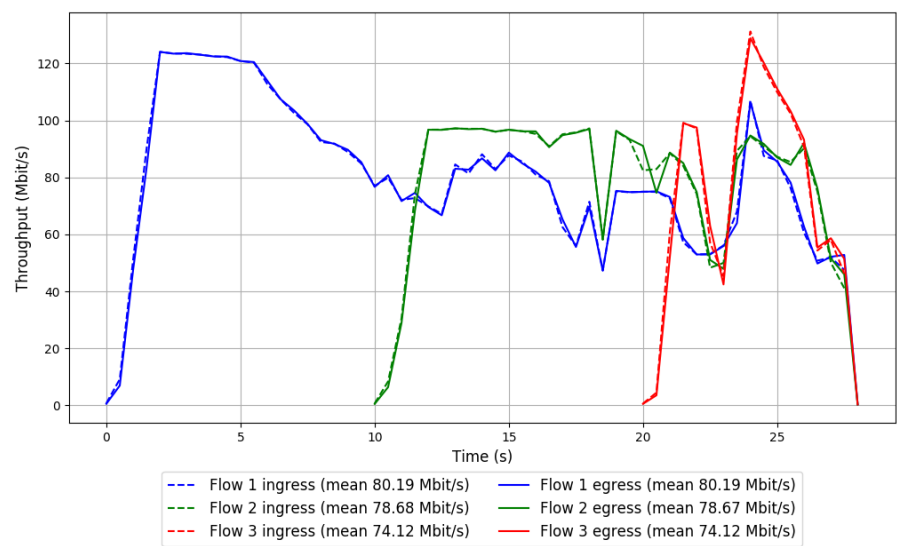
-- Flow 3:

Average throughput: 74.12 Mbit/s

95th percentile per-packet one-way delay: 50.998 ms

Loss rate: 0.00%

Run 10: Report of Copa — Data Link

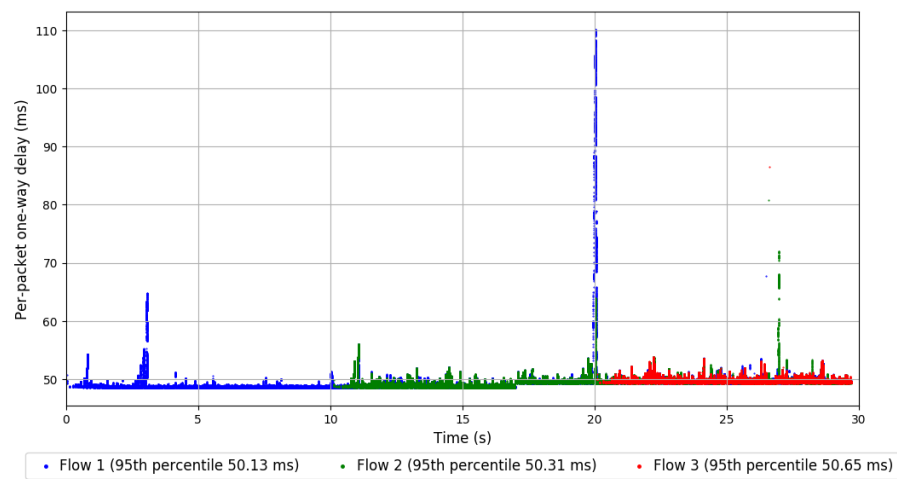
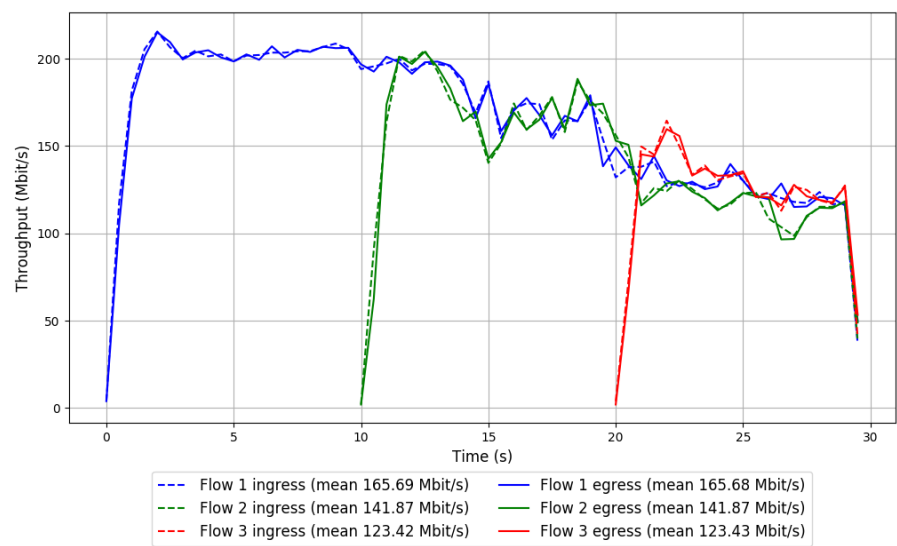


```
Run 1: Statistics of Indigo

Start at: 2017-12-12 07:04:50
End at: 2017-12-12 07:05:20

# Below is generated by plot.py at 2017-12-12 11:25:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 299.26 Mbit/s
95th percentile per-packet one-way delay: 50.295 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 165.68 Mbit/s
95th percentile per-packet one-way delay: 50.135 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 141.87 Mbit/s
95th percentile per-packet one-way delay: 50.311 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 123.43 Mbit/s
95th percentile per-packet one-way delay: 50.647 ms
Loss rate: 0.00%
```


Run 1: Report of Indigo — Data Link

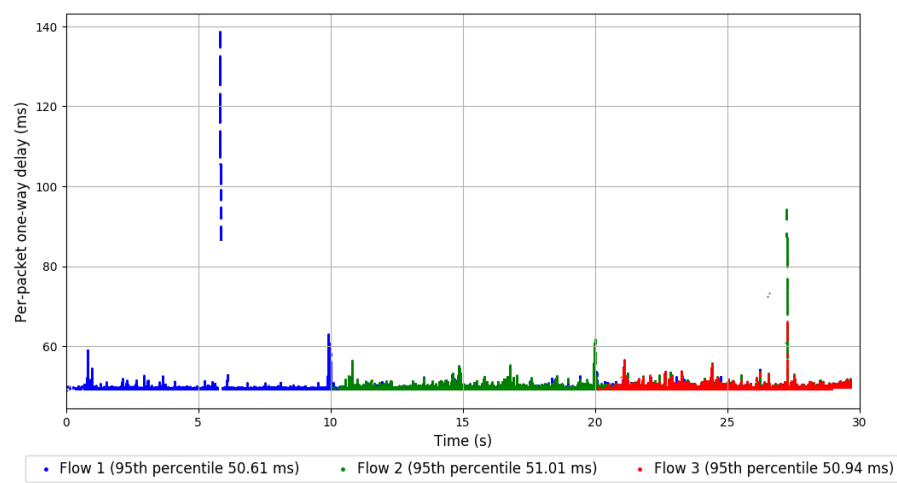
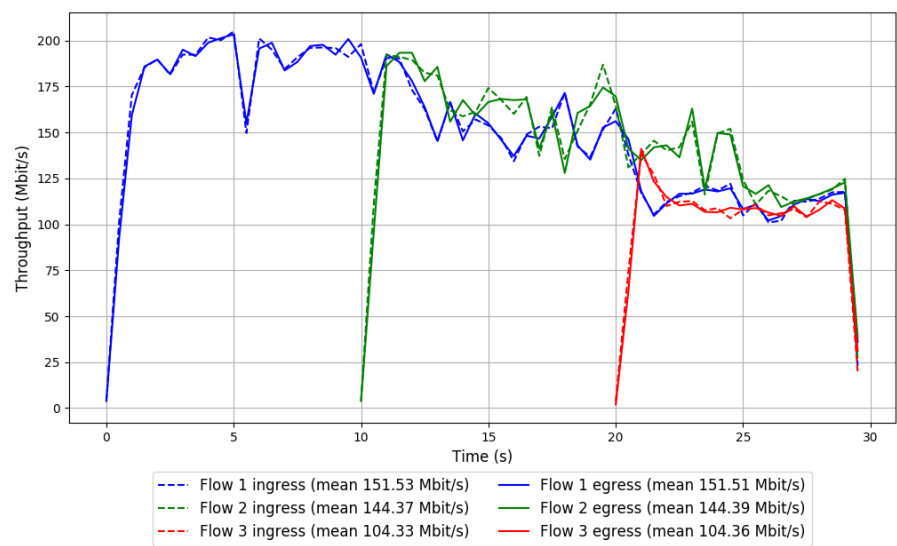


```
Run 2: Statistics of Indigo

Start at: 2017-12-12 07:16:58
End at: 2017-12-12 07:17:28

# Below is generated by plot.py at 2017-12-12 11:25:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 280.75 Mbit/s
95th percentile per-packet one-way delay: 50.812 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 151.51 Mbit/s
95th percentile per-packet one-way delay: 50.612 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 144.39 Mbit/s
95th percentile per-packet one-way delay: 51.014 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 104.36 Mbit/s
95th percentile per-packet one-way delay: 50.940 ms
Loss rate: 0.01%
```

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2017-12-12 07:28:57

End at: 2017-12-12 07:29:27

Below is generated by plot.py at 2017-12-12 11:25:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 285.89 Mbit/s

95th percentile per-packet one-way delay: 51.158 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 153.25 Mbit/s

95th percentile per-packet one-way delay: 50.742 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 150.11 Mbit/s

95th percentile per-packet one-way delay: 51.446 ms

Loss rate: 0.00%

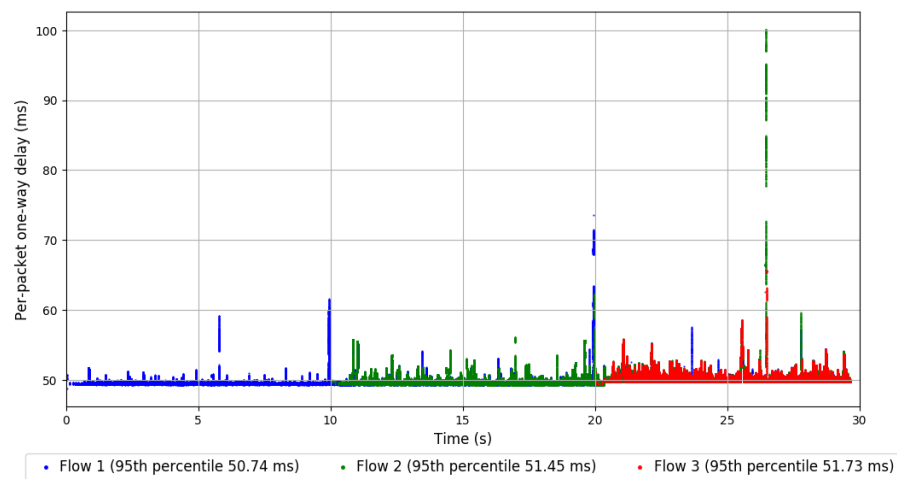
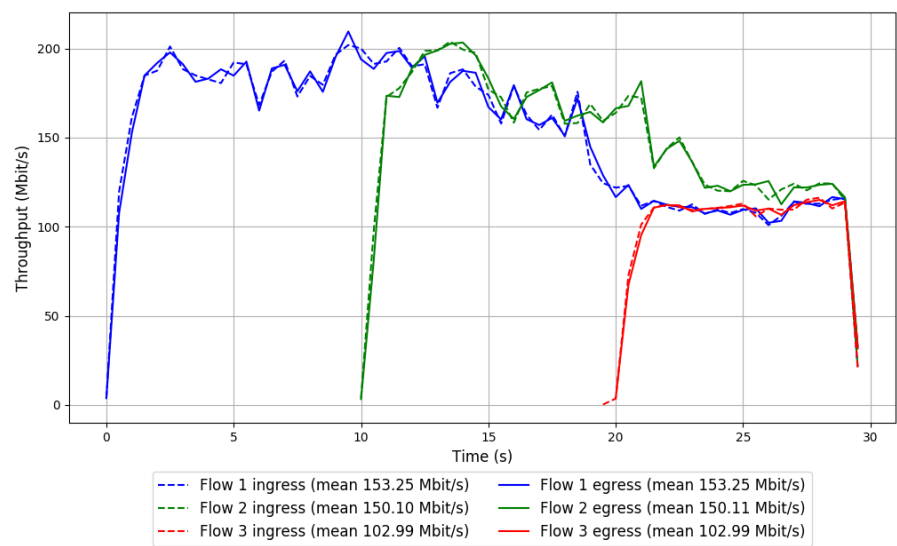
-- Flow 3:

Average throughput: 102.99 Mbit/s

95th percentile per-packet one-way delay: 51.730 ms

Loss rate: 0.00%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2017-12-12 07:41:07

End at: 2017-12-12 07:41:37

Below is generated by plot.py at 2017-12-12 11:26:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 296.86 Mbit/s

95th percentile per-packet one-way delay: 50.563 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 166.91 Mbit/s

95th percentile per-packet one-way delay: 50.412 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 141.12 Mbit/s

95th percentile per-packet one-way delay: 50.707 ms

Loss rate: 0.00%

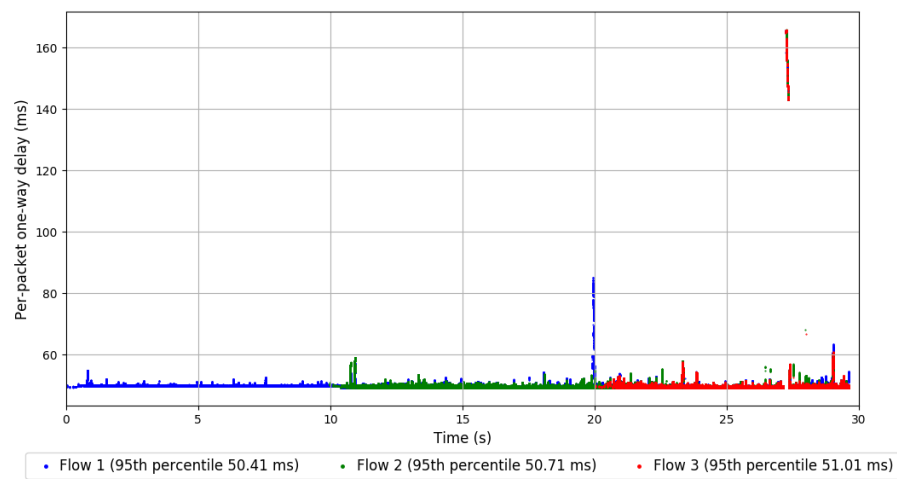
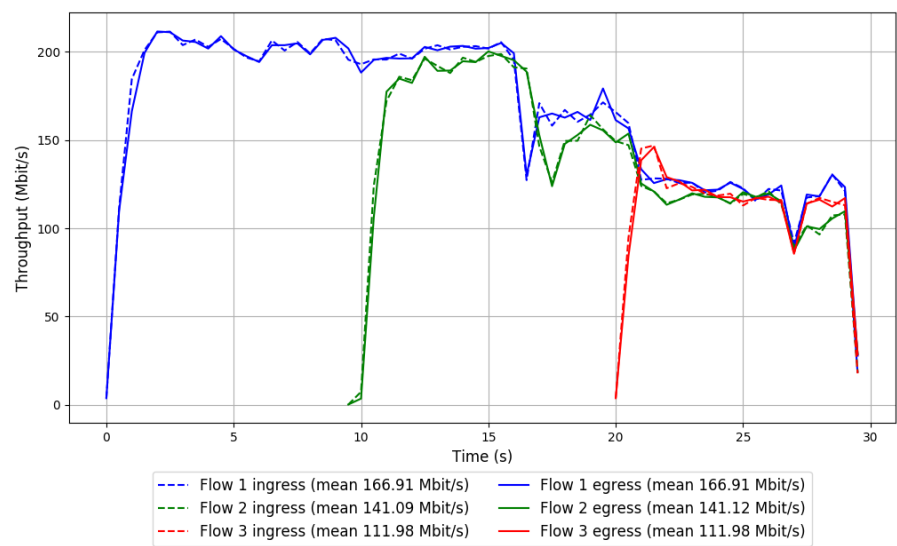
-- Flow 3:

Average throughput: 111.98 Mbit/s

95th percentile per-packet one-way delay: 51.006 ms

Loss rate: 0.00%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2017-12-12 07:53:13

End at: 2017-12-12 07:53:43

Below is generated by plot.py at 2017-12-12 11:27:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 291.43 Mbit/s

95th percentile per-packet one-way delay: 51.534 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 163.40 Mbit/s

95th percentile per-packet one-way delay: 51.028 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 143.52 Mbit/s

95th percentile per-packet one-way delay: 52.130 ms

Loss rate: 0.00%

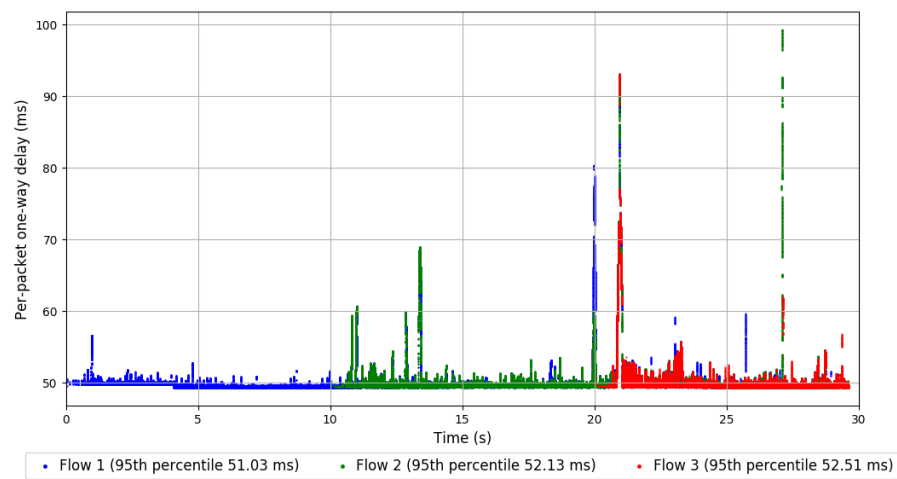
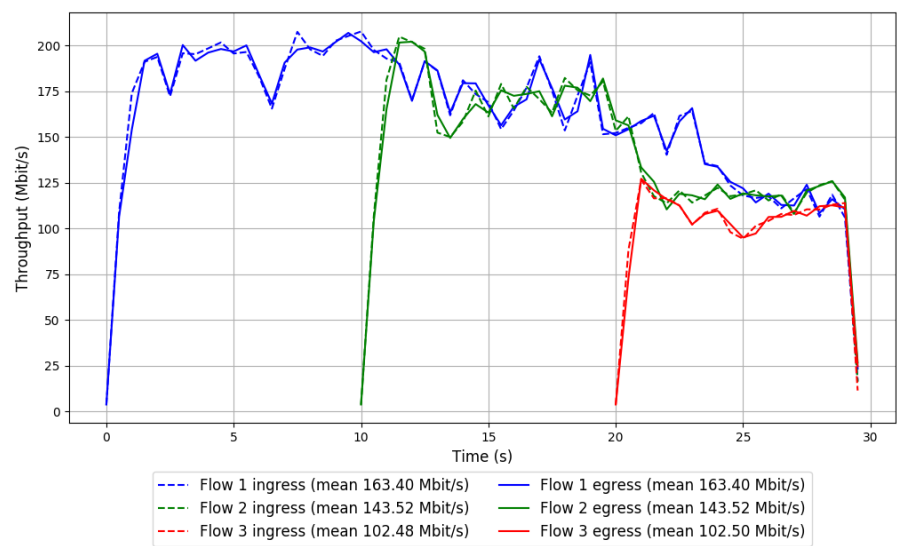
-- Flow 3:

Average throughput: 102.50 Mbit/s

95th percentile per-packet one-way delay: 52.508 ms

Loss rate: 0.00%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2017-12-12 08:05:20

End at: 2017-12-12 08:05:50

Below is generated by plot.py at 2017-12-12 11:27:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 284.05 Mbit/s

95th percentile per-packet one-way delay: 51.190 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 155.91 Mbit/s

95th percentile per-packet one-way delay: 50.825 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 142.98 Mbit/s

95th percentile per-packet one-way delay: 51.580 ms

Loss rate: 0.00%

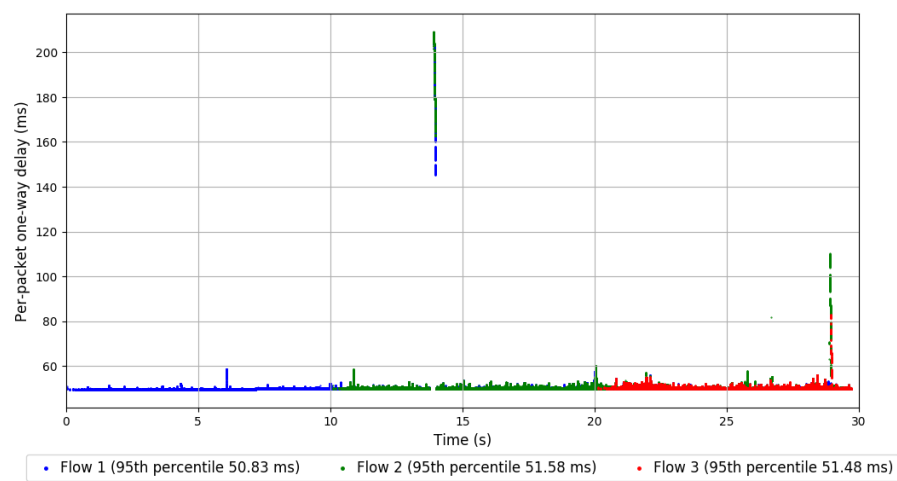
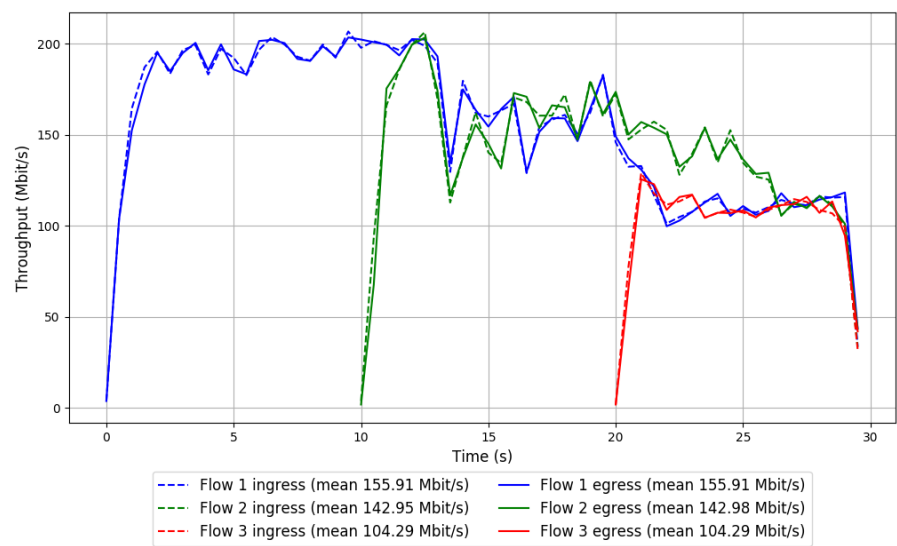
-- Flow 3:

Average throughput: 104.29 Mbit/s

95th percentile per-packet one-way delay: 51.476 ms

Loss rate: 0.00%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2017-12-12 08:17:13

End at: 2017-12-12 08:17:43

Below is generated by plot.py at 2017-12-12 11:28:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 296.07 Mbit/s

95th percentile per-packet one-way delay: 51.781 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 169.37 Mbit/s

95th percentile per-packet one-way delay: 51.668 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 140.49 Mbit/s

95th percentile per-packet one-way delay: 52.047 ms

Loss rate: 0.00%

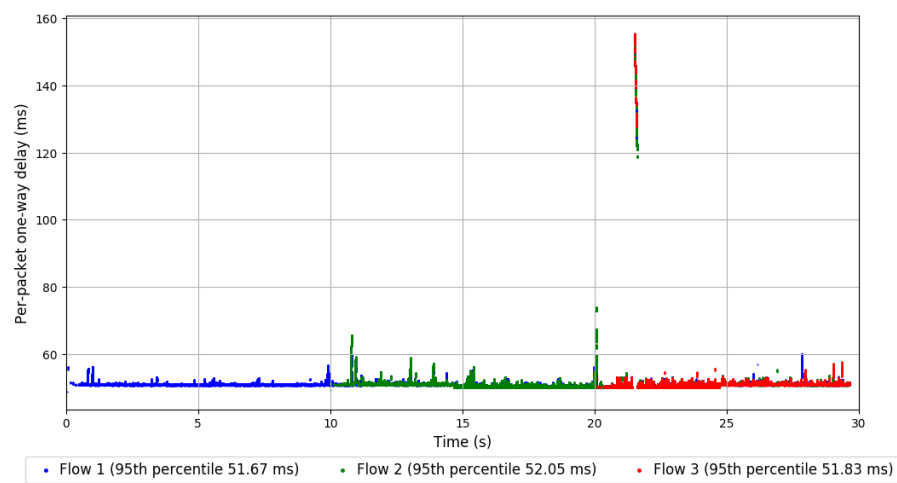
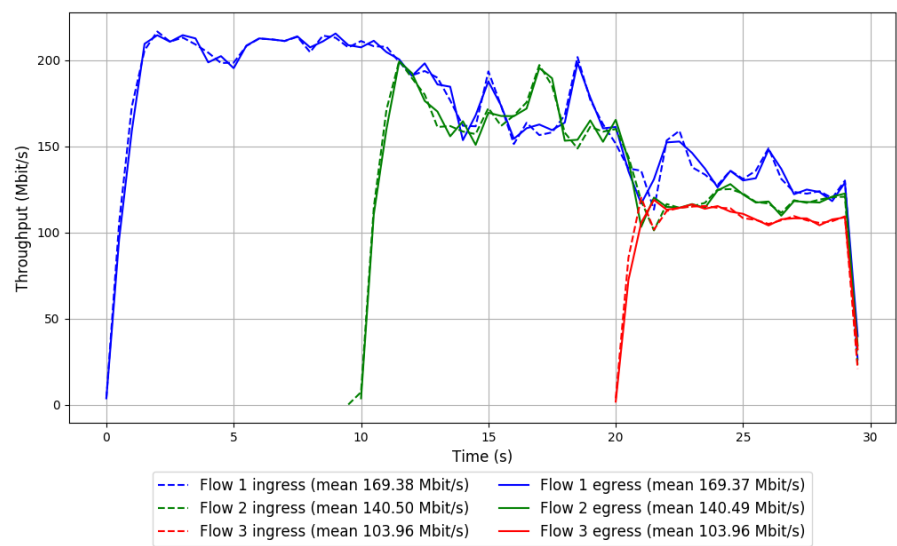
-- Flow 3:

Average throughput: 103.96 Mbit/s

95th percentile per-packet one-way delay: 51.828 ms

Loss rate: 0.00%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2017-12-12 08:29:27

End at: 2017-12-12 08:29:57

Below is generated by plot.py at 2017-12-12 11:29:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 300.22 Mbit/s

95th percentile per-packet one-way delay: 52.069 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 166.87 Mbit/s

95th percentile per-packet one-way delay: 51.797 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 147.35 Mbit/s

95th percentile per-packet one-way delay: 52.057 ms

Loss rate: 0.00%

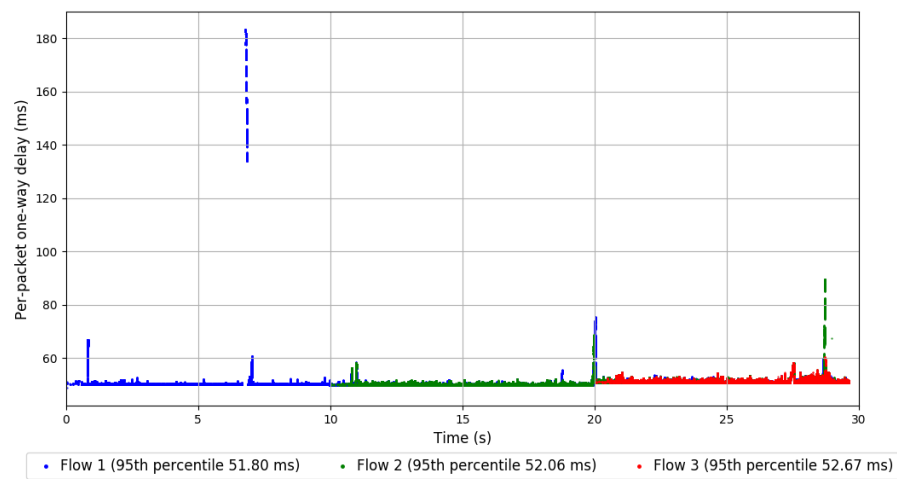
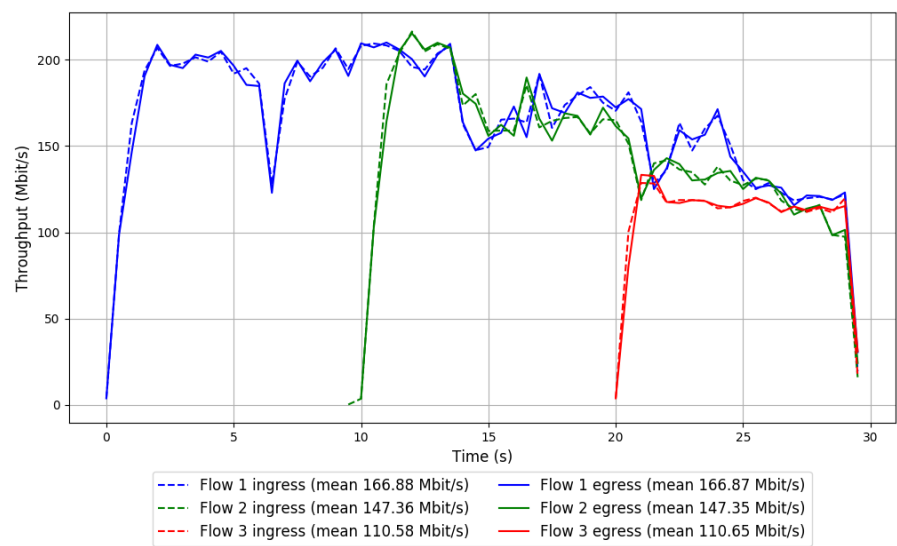
-- Flow 3:

Average throughput: 110.65 Mbit/s

95th percentile per-packet one-way delay: 52.669 ms

Loss rate: 0.00%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2017-12-12 08:41:29

End at: 2017-12-12 08:41:59

Below is generated by plot.py at 2017-12-12 11:30:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 295.03 Mbit/s

95th percentile per-packet one-way delay: 51.127 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 167.33 Mbit/s

95th percentile per-packet one-way delay: 51.072 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 140.29 Mbit/s

95th percentile per-packet one-way delay: 51.196 ms

Loss rate: 0.00%

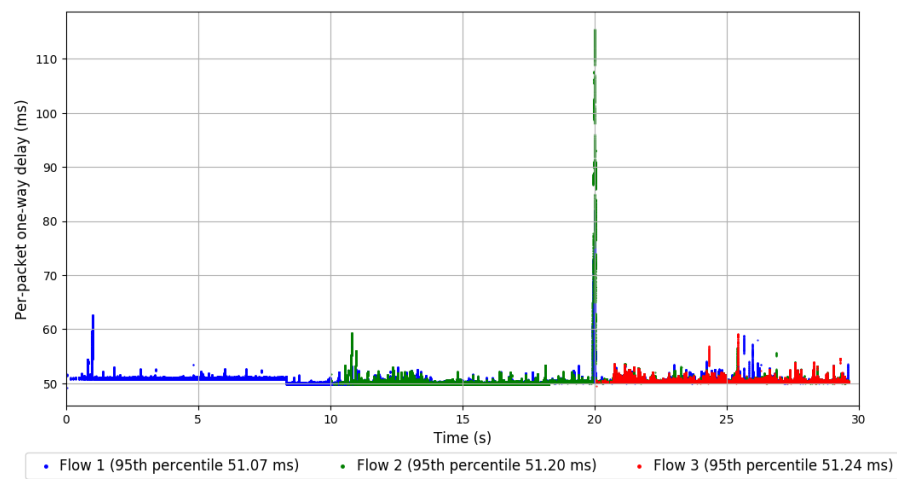
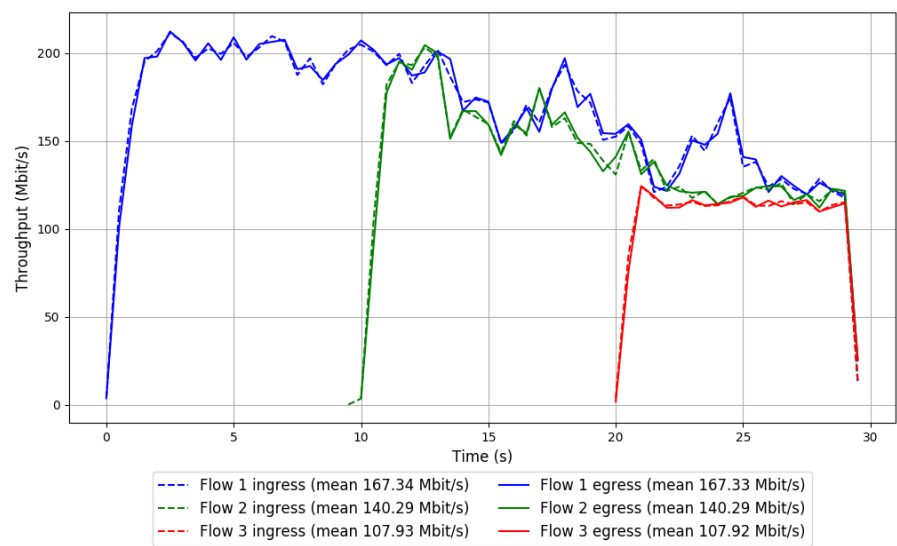
-- Flow 3:

Average throughput: 107.92 Mbit/s

95th percentile per-packet one-way delay: 51.236 ms

Loss rate: 0.00%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2017-12-12 08:53:43

End at: 2017-12-12 08:54:13

Below is generated by plot.py at 2017-12-12 11:30:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 300.37 Mbit/s

95th percentile per-packet one-way delay: 52.495 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 160.53 Mbit/s

95th percentile per-packet one-way delay: 51.797 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 163.43 Mbit/s

95th percentile per-packet one-way delay: 53.914 ms

Loss rate: 0.10%

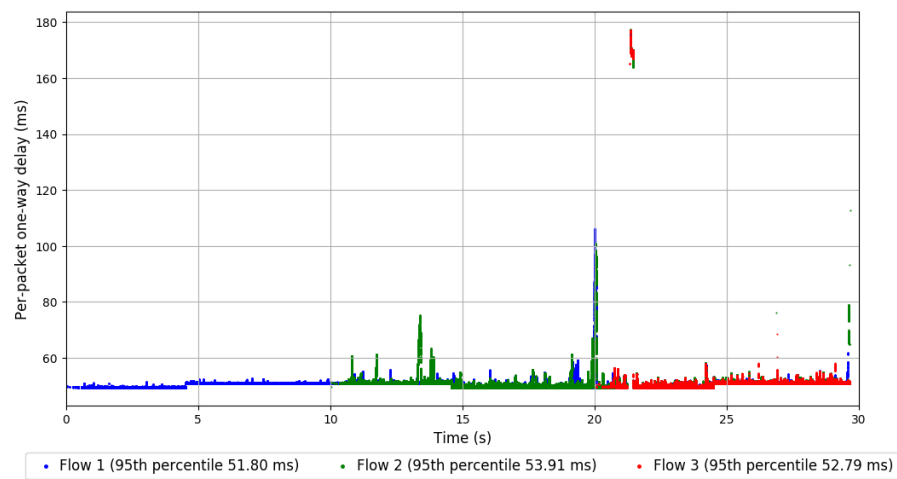
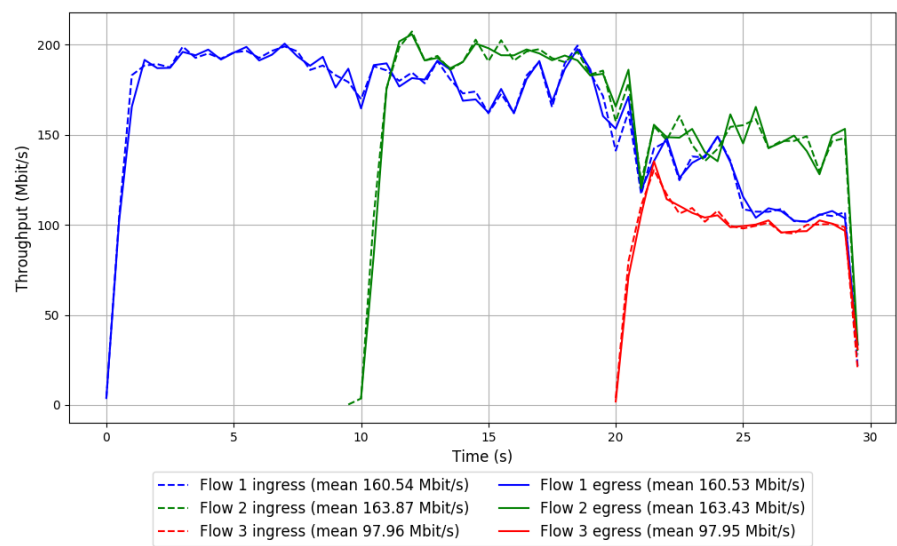
-- Flow 3:

Average throughput: 97.95 Mbit/s

95th percentile per-packet one-way delay: 52.793 ms

Loss rate: 0.00%

Run 10: Report of Indigo — Data Link

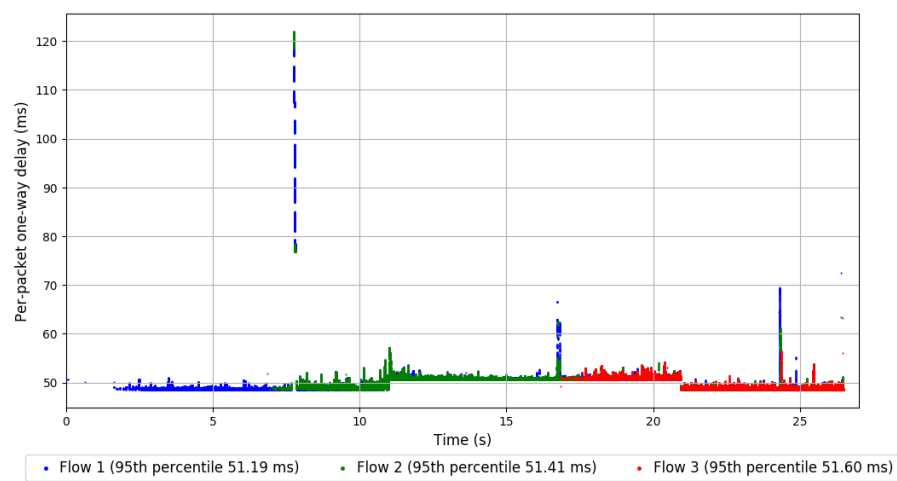
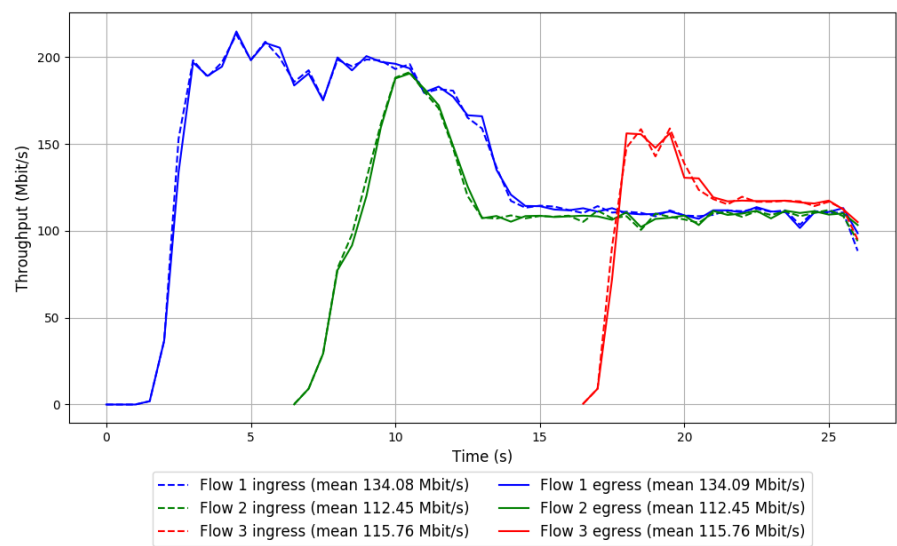


```
Run 1: Statistics of Indigo-calib

Start at: 2017-12-12 07:00:23
End at: 2017-12-12 07:00:53

# Below is generated by plot.py at 2017-12-12 11:30:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 259.81 Mbit/s
95th percentile per-packet one-way delay: 51.342 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 134.09 Mbit/s
95th percentile per-packet one-way delay: 51.193 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 112.45 Mbit/s
95th percentile per-packet one-way delay: 51.406 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 115.76 Mbit/s
95th percentile per-packet one-way delay: 51.596 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo-calib — Data Link

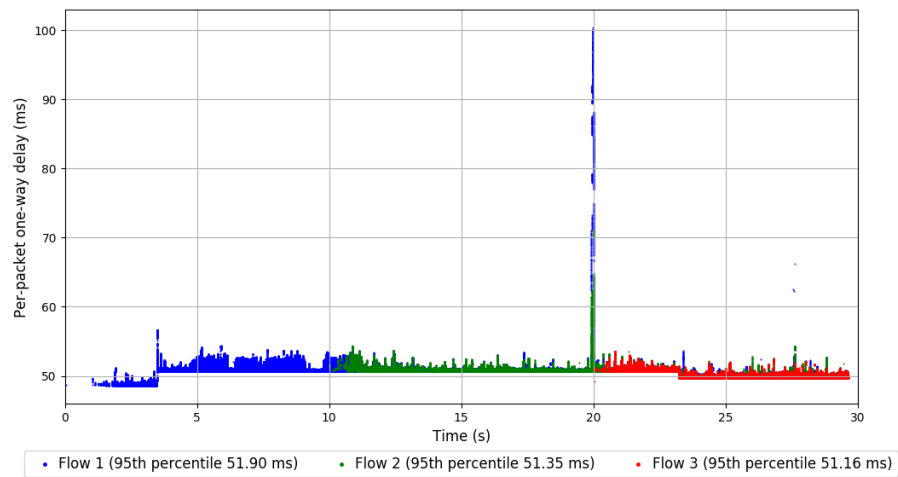
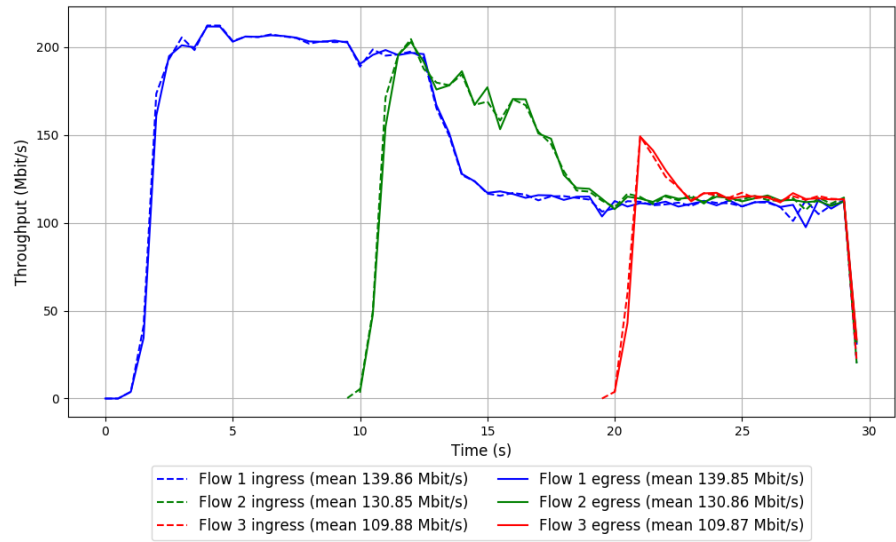


```
Run 2: Statistics of Indigo-calib

Start at: 2017-12-12 07:12:34
End at: 2017-12-12 07:13:04

# Below is generated by plot.py at 2017-12-12 11:31:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 262.19 Mbit/s
95th percentile per-packet one-way delay: 51.676 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 139.85 Mbit/s
95th percentile per-packet one-way delay: 51.903 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 130.86 Mbit/s
95th percentile per-packet one-way delay: 51.354 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 109.87 Mbit/s
95th percentile per-packet one-way delay: 51.165 ms
Loss rate: 0.00%
```

Run 2: Report of Indigo-calib — Data Link

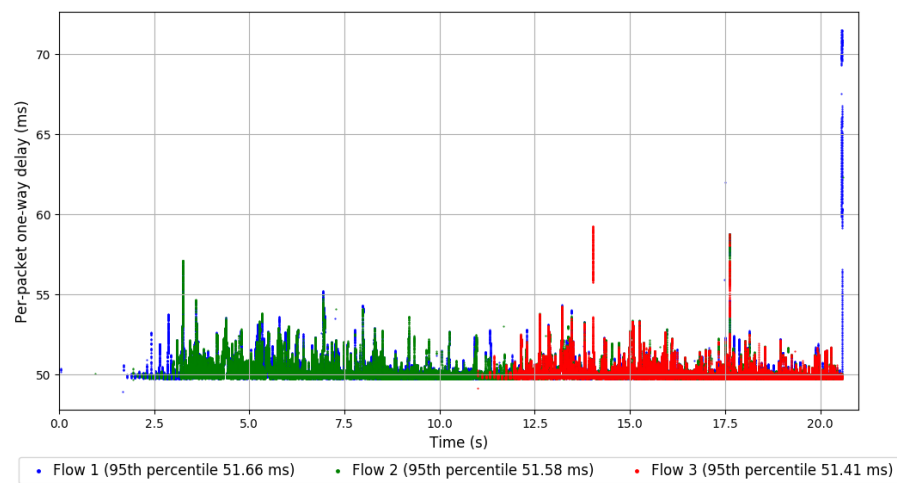
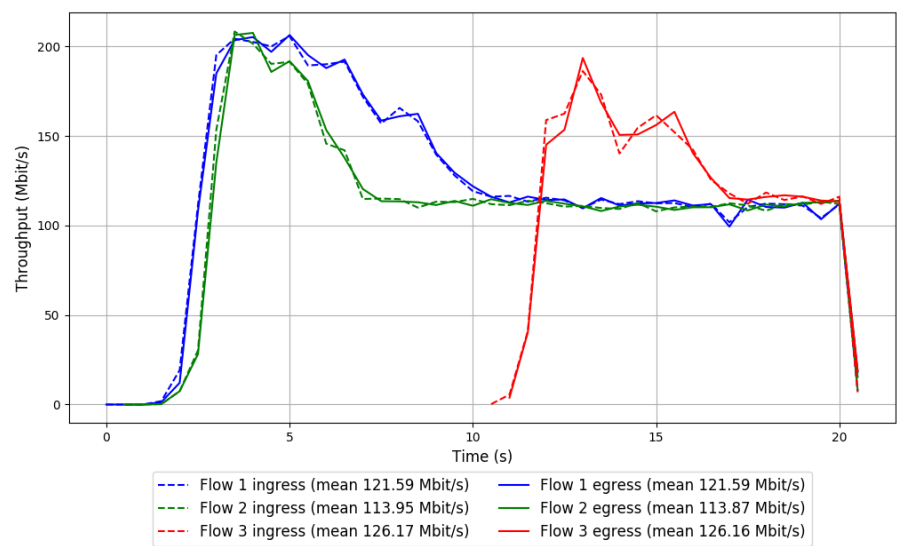


Run 3: Statistics of Indigo-calib

Start at: 2017-12-12 07:24:38

End at: 2017-12-12 07:25:08

Run 3: Report of Indigo-calib — Data Link



Run 4: Statistics of Indigo-calib

Start at: 2017-12-12 07:36:45

End at: 2017-12-12 07:37:15

Below is generated by plot.py at 2017-12-12 11:32:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 257.25 Mbit/s

95th percentile per-packet one-way delay: 50.505 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 130.32 Mbit/s

95th percentile per-packet one-way delay: 50.352 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 136.99 Mbit/s

95th percentile per-packet one-way delay: 50.529 ms

Loss rate: 0.00%

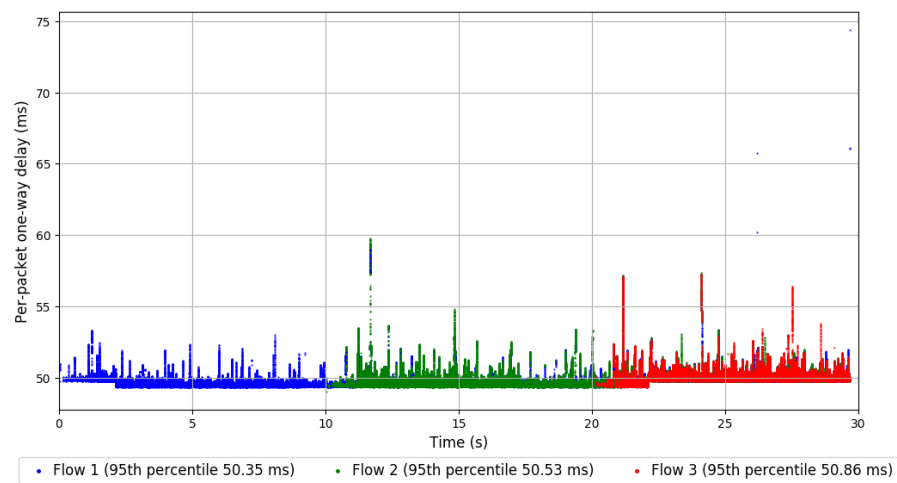
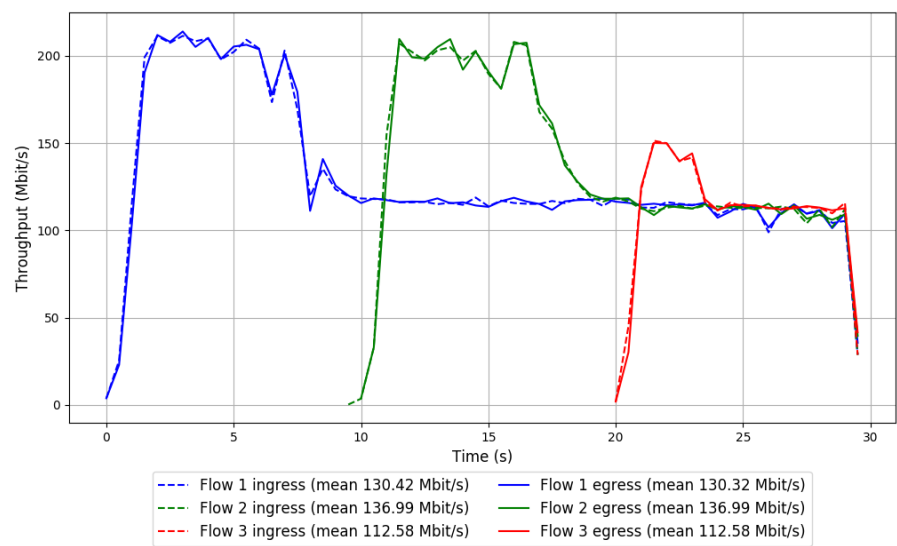
-- Flow 3:

Average throughput: 112.58 Mbit/s

95th percentile per-packet one-way delay: 50.857 ms

Loss rate: 0.00%

Run 4: Report of Indigo-calib — Data Link

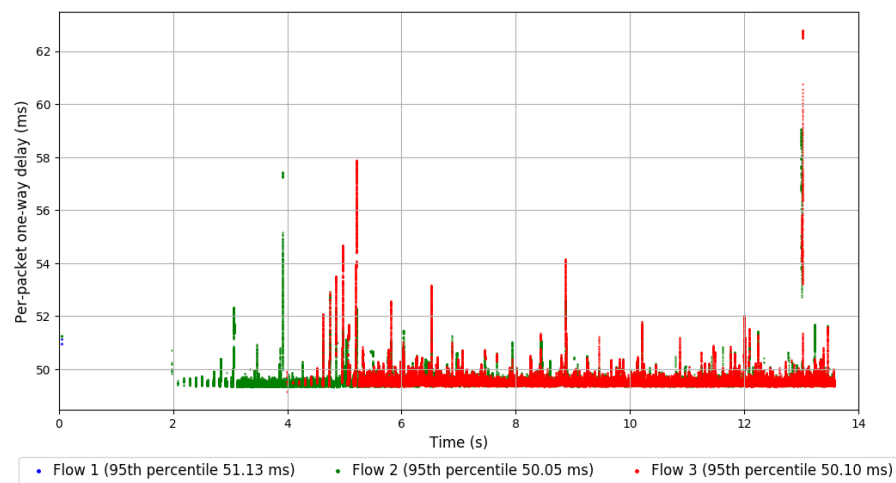
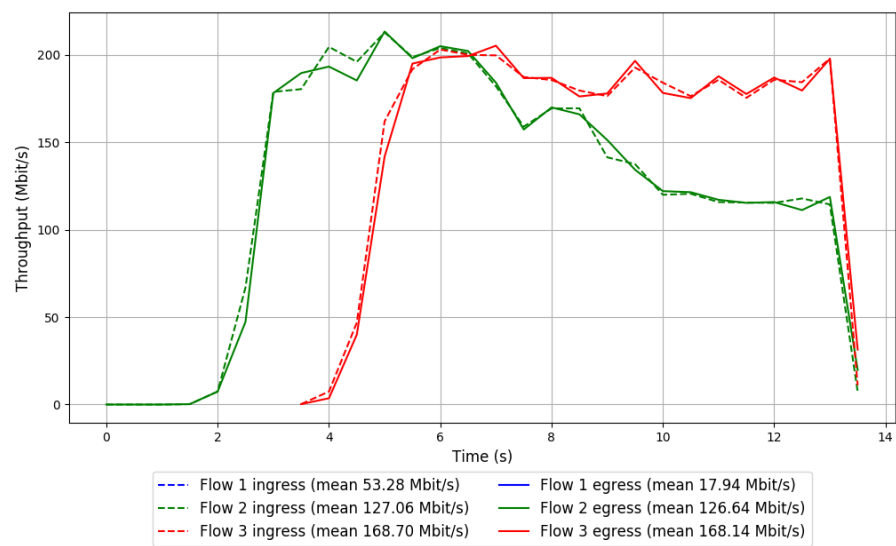


Run 5: Statistics of Indigo-calib

Start at: 2017-12-12 07:48:55

End at: 2017-12-12 07:49:25

Run 5: Report of Indigo-calib — Data Link



Run 6: Statistics of Indigo-calib

Start at: 2017-12-12 08:00:56

End at: 2017-12-12 08:01:26

Below is generated by plot.py at 2017-12-12 11:32:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 273.72 Mbit/s

95th percentile per-packet one-way delay: 50.163 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 138.89 Mbit/s

95th percentile per-packet one-way delay: 50.036 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 124.41 Mbit/s

95th percentile per-packet one-way delay: 50.212 ms

Loss rate: 0.00%

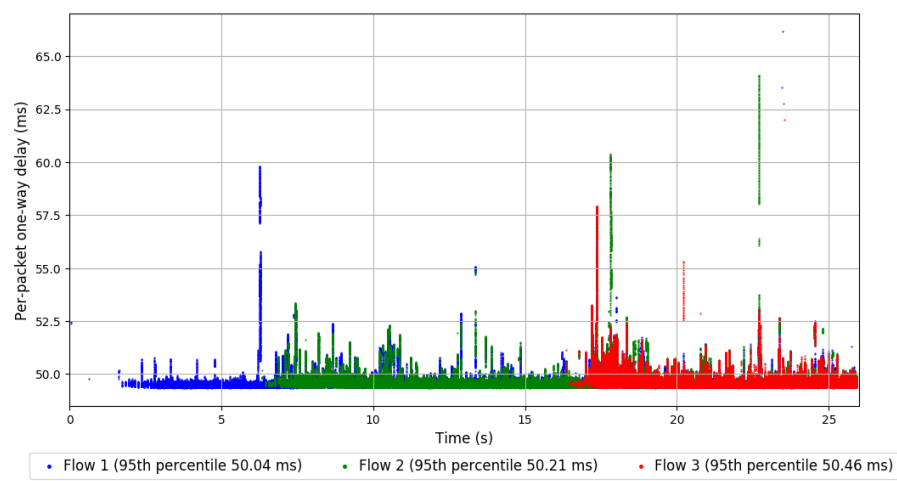
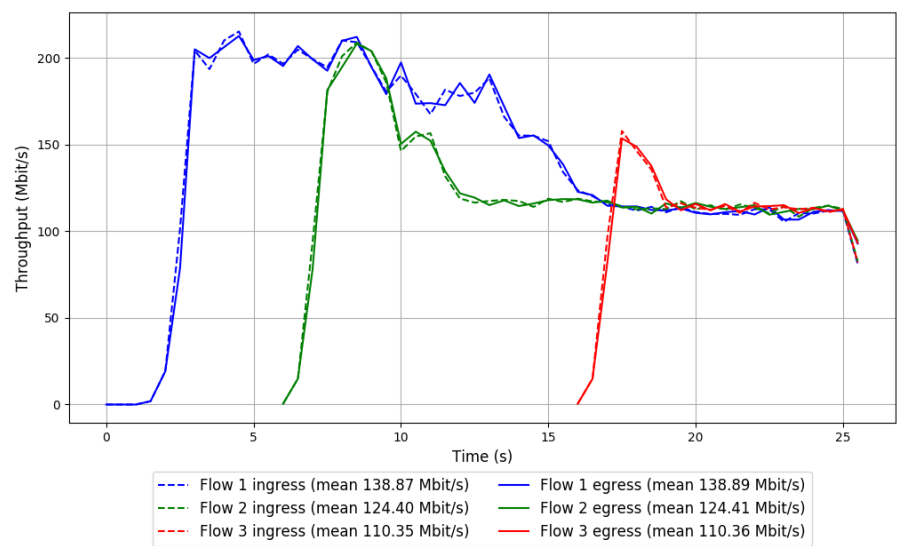
-- Flow 3:

Average throughput: 110.36 Mbit/s

95th percentile per-packet one-way delay: 50.460 ms

Loss rate: 0.00%

Run 6: Report of Indigo-calib — Data Link

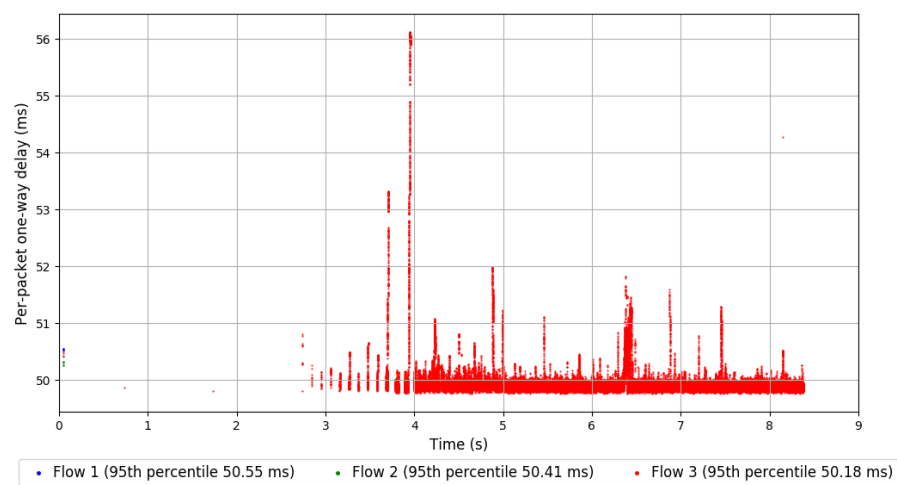
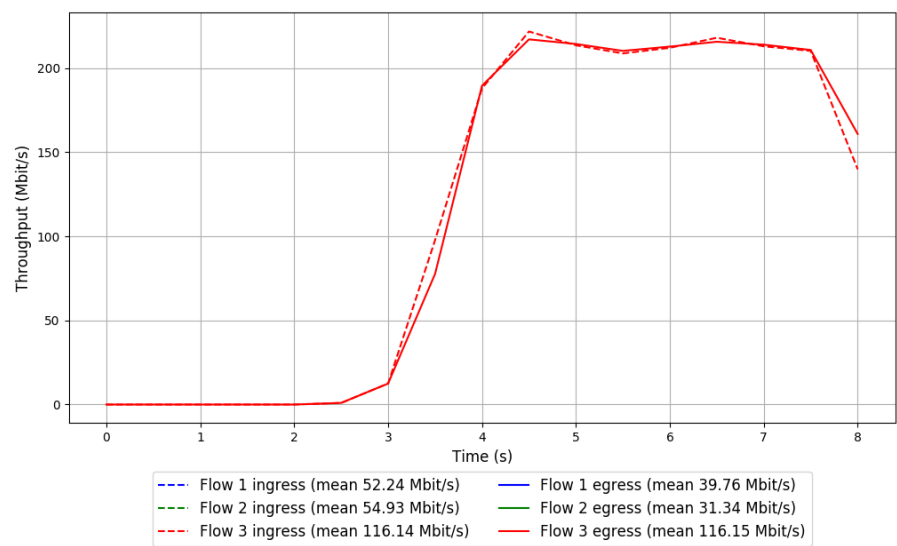


Run 7: Statistics of Indigo-calib

Start at: 2017-12-12 08:13:02

End at: 2017-12-12 08:13:32

Run 7: Report of Indigo-calib — Data Link



Run 8: Statistics of Indigo-calib

Start at: 2017-12-12 08:24:59

End at: 2017-12-12 08:25:29

Below is generated by plot.py at 2017-12-12 11:32:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 267.45 Mbit/s

95th percentile per-packet one-way delay: 51.523 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 149.40 Mbit/s

95th percentile per-packet one-way delay: 51.403 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 126.55 Mbit/s

95th percentile per-packet one-way delay: 51.637 ms

Loss rate: 0.00%

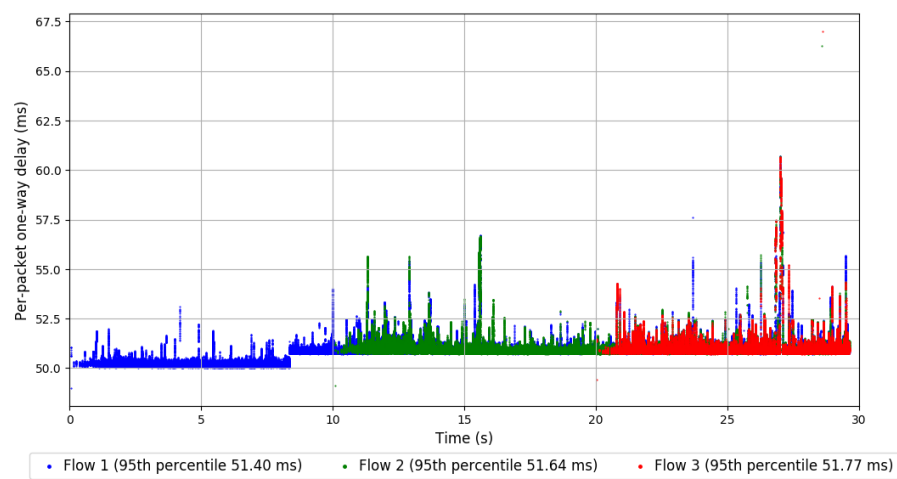
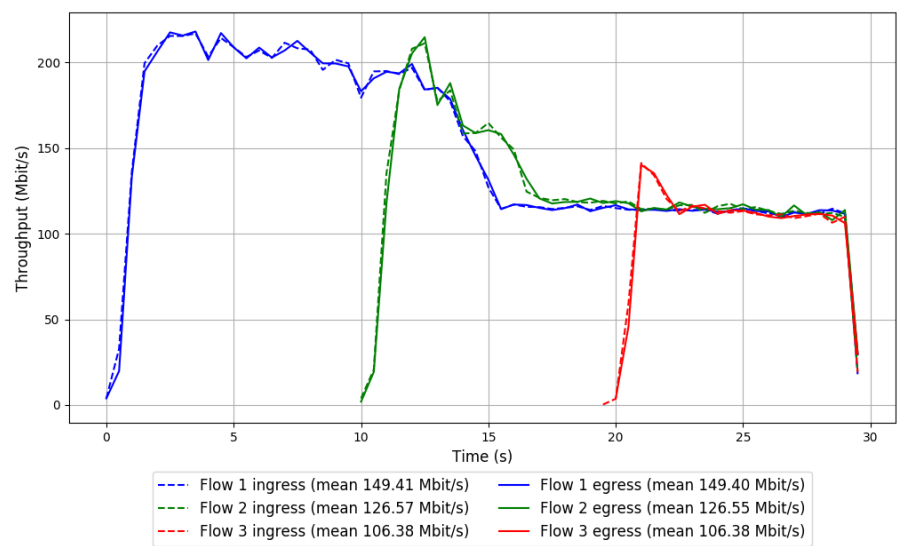
-- Flow 3:

Average throughput: 106.38 Mbit/s

95th percentile per-packet one-way delay: 51.773 ms

Loss rate: 0.00%

Run 8: Report of Indigo-calib — Data Link



Run 9: Statistics of Indigo-calib

Start at: 2017-12-12 08:37:11

End at: 2017-12-12 08:37:41

Below is generated by plot.py at 2017-12-12 11:32:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 264.57 Mbit/s

95th percentile per-packet one-way delay: 51.510 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 146.42 Mbit/s

95th percentile per-packet one-way delay: 51.309 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 124.10 Mbit/s

95th percentile per-packet one-way delay: 51.688 ms

Loss rate: 0.00%

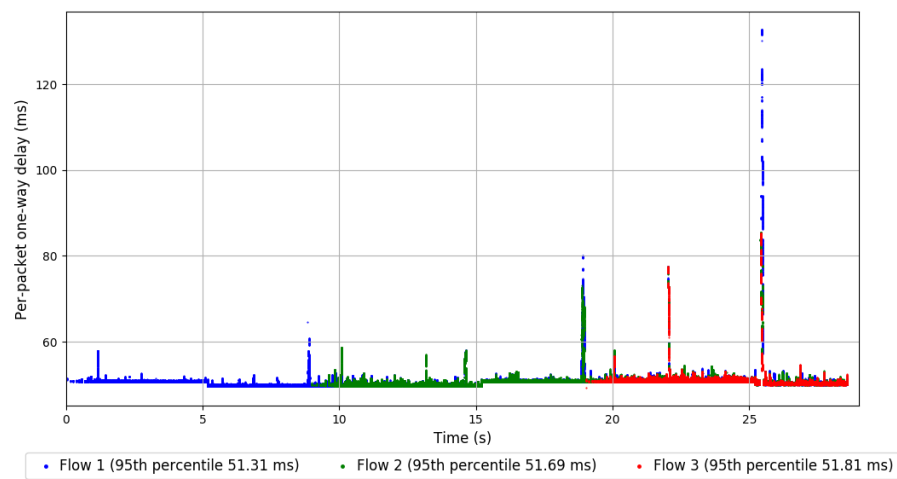
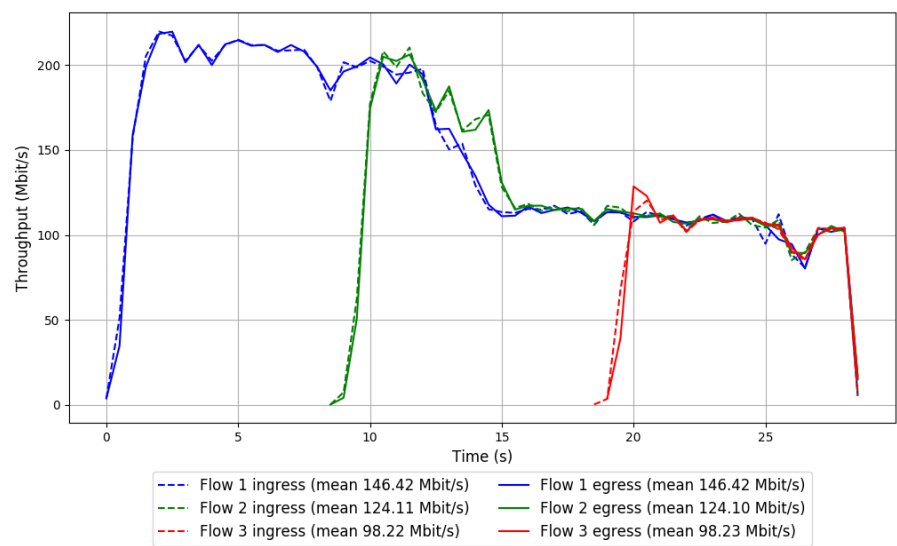
-- Flow 3:

Average throughput: 98.23 Mbit/s

95th percentile per-packet one-way delay: 51.814 ms

Loss rate: 0.00%

Run 9: Report of Indigo-calib — Data Link



Run 10: Statistics of Indigo-calib

Start at: 2017-12-12 08:49:17

End at: 2017-12-12 08:49:47

Below is generated by plot.py at 2017-12-12 11:32:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 280.92 Mbit/s

95th percentile per-packet one-way delay: 51.043 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 133.60 Mbit/s

95th percentile per-packet one-way delay: 51.053 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 127.63 Mbit/s

95th percentile per-packet one-way delay: 51.093 ms

Loss rate: 0.00%

-- Flow 3:

Average throughput: 120.16 Mbit/s

95th percentile per-packet one-way delay: 50.819 ms

Loss rate: 0.00%

Run 10: Report of Indigo-calib — Data Link

