

Pantheon Report

Generated at 2017-12-06 03:27:43 (UTC).

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

Repeated the test of 14 congestion control schemes 10 times.

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

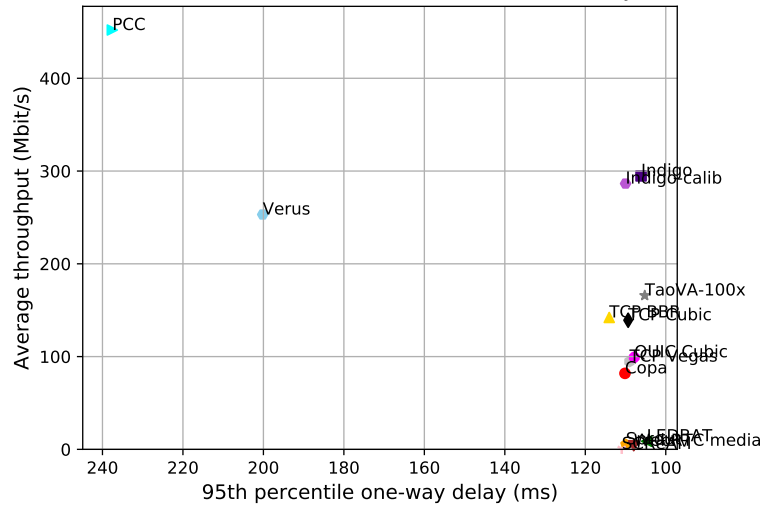
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

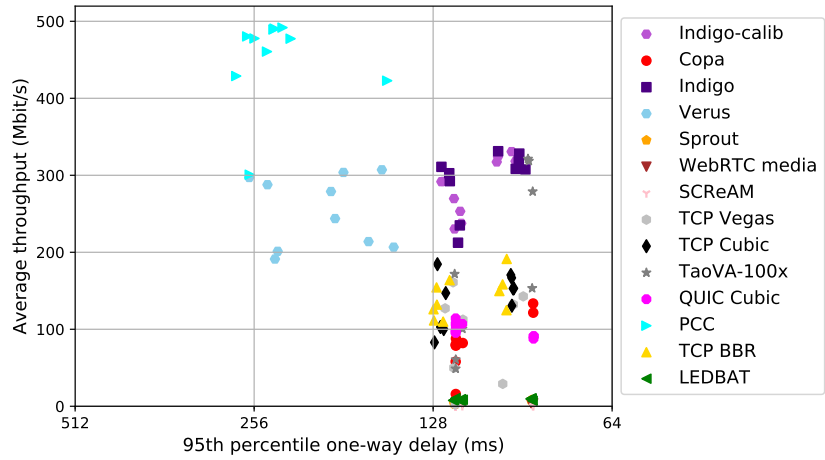
Git summary:

```
branch: indigos @ e3a57ad5ac5cfcaca0e3f983c8dd4cc3509e0262
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
M datagrump/sender.cc
third_party/genericCC @ b5b7c38e8391001927dc41c6cfa2627d03dde737
third_party/indigo @ b19f3730105f9aa95452552af924e3719b03cc55
third_party/indigo-cellular @ aee99e8eb842cb053f8c9a80e28cd256a930bbc2
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/indigo-no-cwnd @ 3e58442c04028a11d7b02456e137604633ba2d6c
third_party/indigo-no-delivery-rate @ 57caa40858b964906edff4876d5a7e5bfff666c5
third_party/indigo-no-queuing-delay @ 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 @ f1a14bffe749737437f61b1eaeab30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/webRTC @ a488197ddd041ace68a42849b2540ad834825f42
```

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



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



scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	10	66.47	74.30	79.16	113.18	112.67	113.69	0.00	0.05	0.07
TCP Cubic	10	81.87	58.30	56.37	108.56	108.97	108.65	0.00	0.03	0.08
LEDBAT	10	4.41	5.14	2.74	104.84	99.11	98.89	0.00	0.00	0.00
PCC	10	405.58	59.46	21.02	236.13	237.87	214.06	1.69	1.10	1.14
QUIC Cubic	10	56.16	49.39	31.89	104.40	95.66	101.53	0.04	0.02	0.09
SCReAM	10	0.22	0.21	0.22	99.01	103.92	101.39	0.00	0.01	0.03
WebRTC media	10	2.11	1.30	0.47	96.03	104.90	108.79	0.01	0.03	0.07
Sprout	9	3.14	2.36	2.19	109.95	106.97	106.52	0.01	0.03	0.01
TaoVA-100x	10	91.73	102.64	46.84	105.14	117.69	112.05	0.00	0.00	0.00
TCP Vegas	8	57.07	29.24	54.71	110.72	108.06	106.93	0.00	0.02	0.00
Verus	10	166.85	100.80	59.42	184.74	220.41	204.48	0.84	1.64	3.43
Copa	9	39.00	53.12	45.11	103.79	100.36	100.33	0.00	0.00	0.08
Indigo	10	150.67	162.58	113.24	104.34	107.18	112.38	0.00	0.02	0.03
Indigo-calib	10	158.95	127.01	134.73	108.65	110.07	113.05	0.03	0.01	0.12

Run 1: Statistics of TCP BBR

Start at: 2017-12-05 23:31:41

End at: 2017-12-05 23:32:11

Below is generated by plot.py at 2017-12-06 02:42:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 149.65 Mbit/s

95th percentile per-packet one-way delay: 99.032 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 63.24 Mbit/s

95th percentile per-packet one-way delay: 96.961 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 99.46 Mbit/s

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

Loss rate: 0.01%

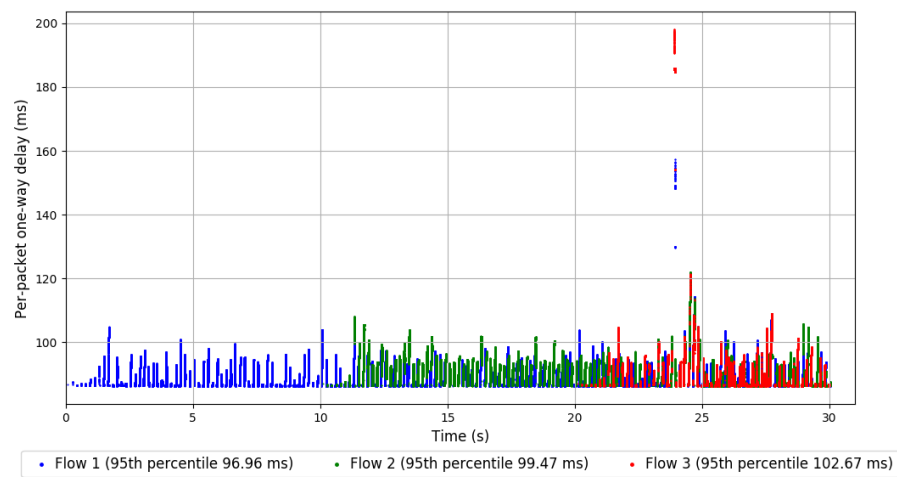
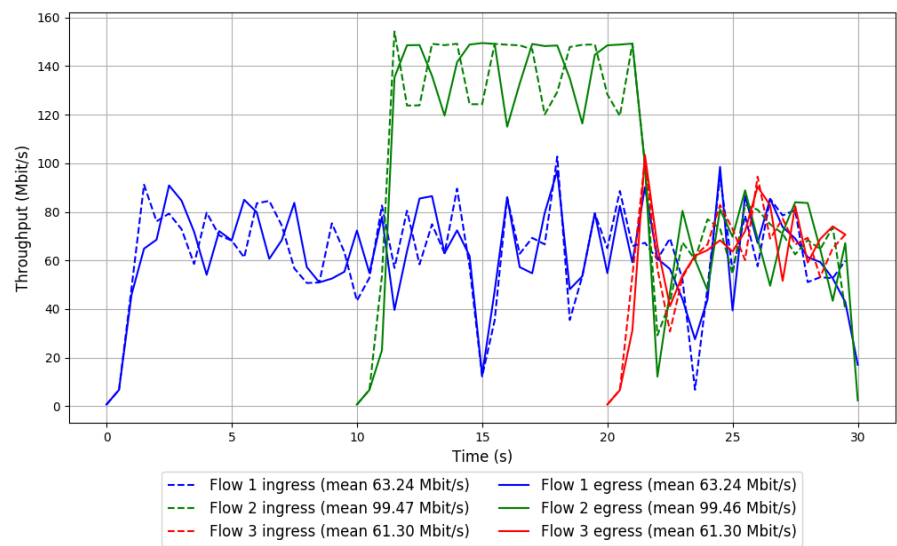
-- Flow 3:

Average throughput: 61.30 Mbit/s

95th percentile per-packet one-way delay: 102.670 ms

Loss rate: 0.00%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2017-12-05 23:44:49

End at: 2017-12-05 23:45:19

Below is generated by plot.py at 2017-12-06 02:42:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 158.33 Mbit/s

95th percentile per-packet one-way delay: 97.813 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 61.12 Mbit/s

95th percentile per-packet one-way delay: 94.927 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 85.72 Mbit/s

95th percentile per-packet one-way delay: 100.452 ms

Loss rate: 0.00%

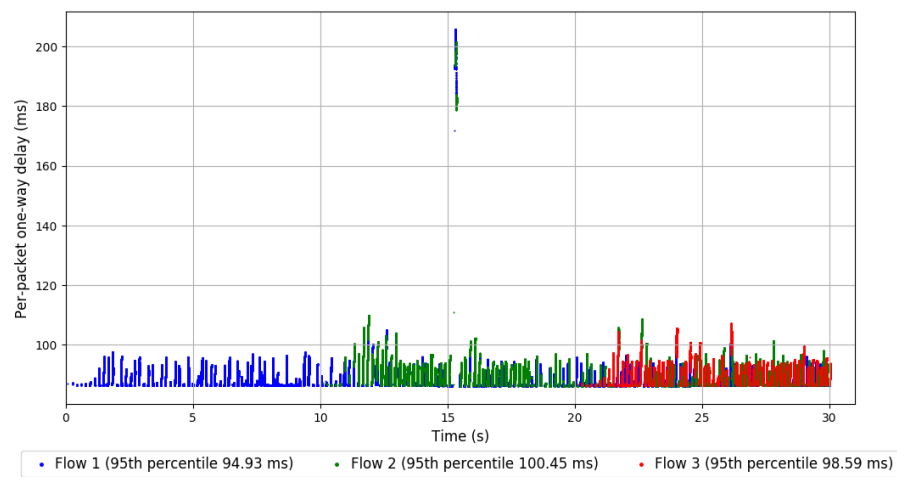
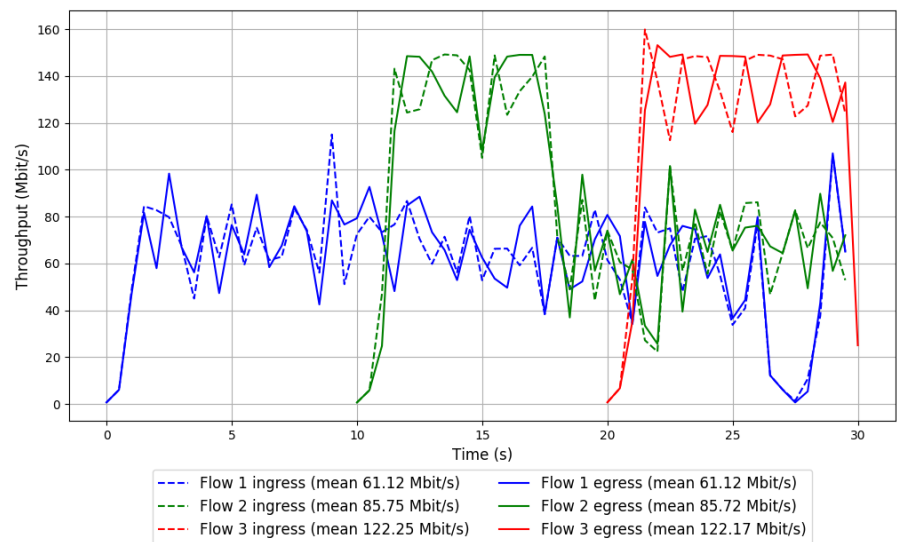
-- Flow 3:

Average throughput: 122.17 Mbit/s

95th percentile per-packet one-way delay: 98.594 ms

Loss rate: 0.00%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2017-12-05 23:57:49

End at: 2017-12-05 23:58:19

Below is generated by plot.py at 2017-12-06 02:43:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 191.35 Mbit/s

95th percentile per-packet one-way delay: 96.268 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 86.99 Mbit/s

95th percentile per-packet one-way delay: 95.929 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 96.78 Mbit/s

95th percentile per-packet one-way delay: 95.513 ms

Loss rate: 0.00%

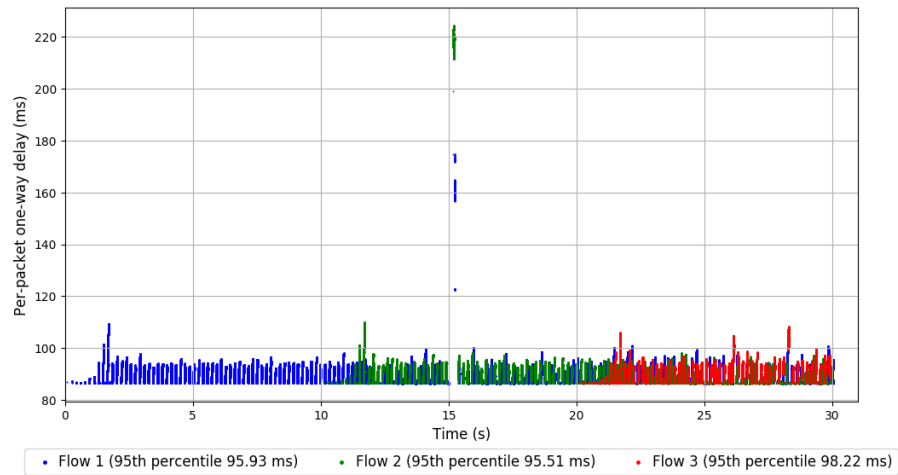
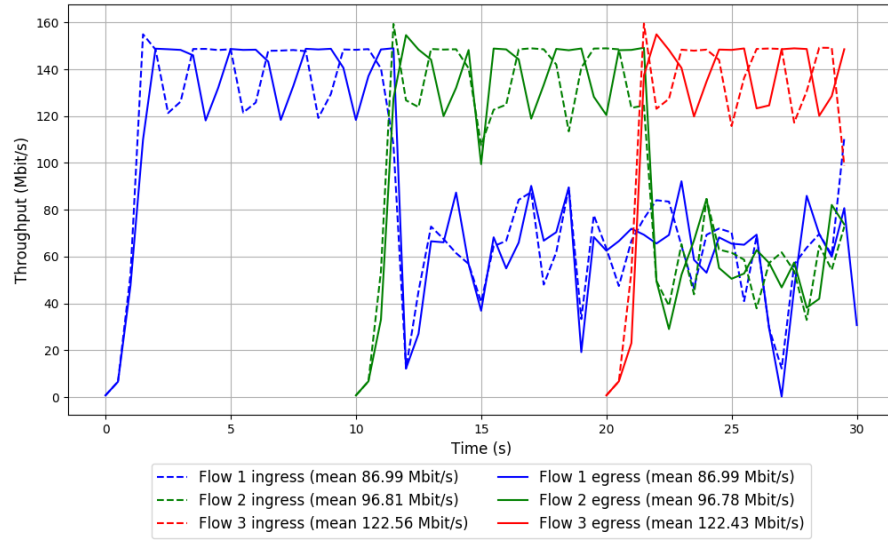
-- Flow 3:

Average throughput: 122.43 Mbit/s

95th percentile per-packet one-way delay: 98.215 ms

Loss rate: 0.00%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2017-12-06 00:10:11

End at: 2017-12-06 00:10:41

Below is generated by plot.py at 2017-12-06 02:43:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 126.02 Mbit/s

95th percentile per-packet one-way delay: 127.796 ms

Loss rate: 0.23%

-- Flow 1:

Average throughput: 53.56 Mbit/s

95th percentile per-packet one-way delay: 129.660 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 81.41 Mbit/s

95th percentile per-packet one-way delay: 127.061 ms

Loss rate: 0.52%

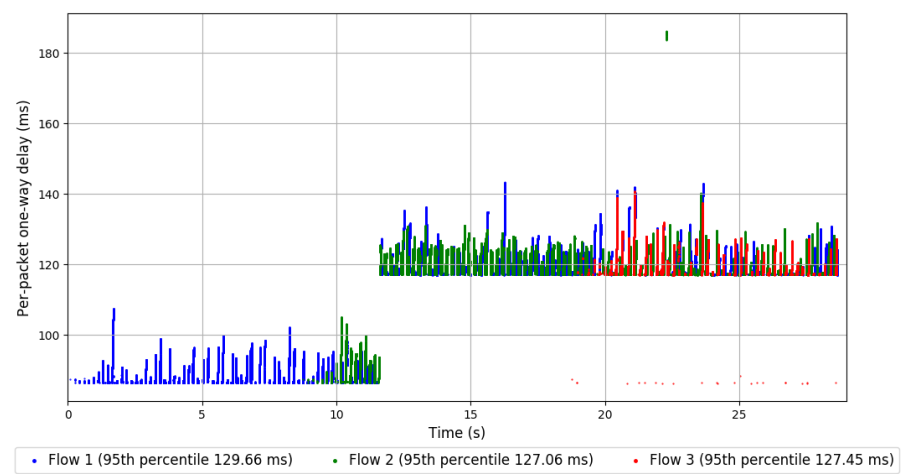
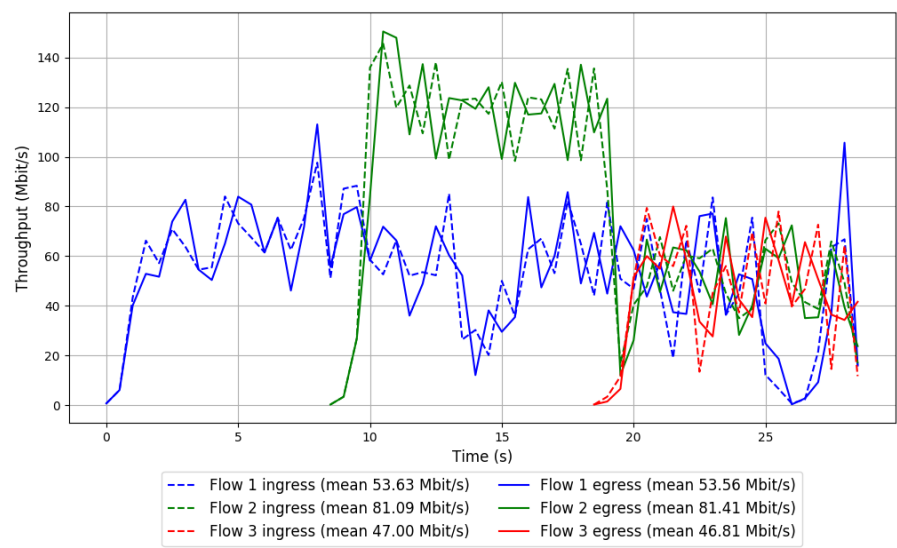
-- Flow 3:

Average throughput: 46.81 Mbit/s

95th percentile per-packet one-way delay: 127.455 ms

Loss rate: 0.00%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2017-12-06 00:23:03

End at: 2017-12-06 00:23:33

Below is generated by plot.py at 2017-12-06 02:43:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 132.03 Mbit/s

95th percentile per-packet one-way delay: 126.161 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 50.80 Mbit/s

95th percentile per-packet one-way delay: 125.666 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 72.29 Mbit/s

95th percentile per-packet one-way delay: 124.678 ms

Loss rate: 0.00%

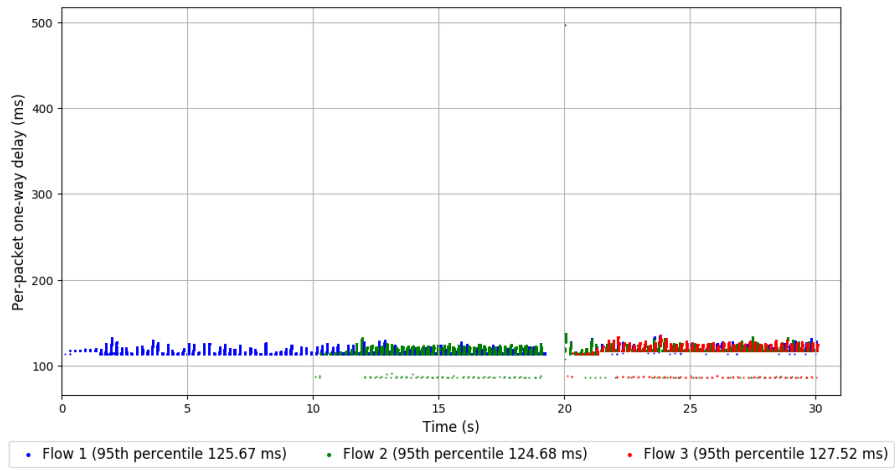
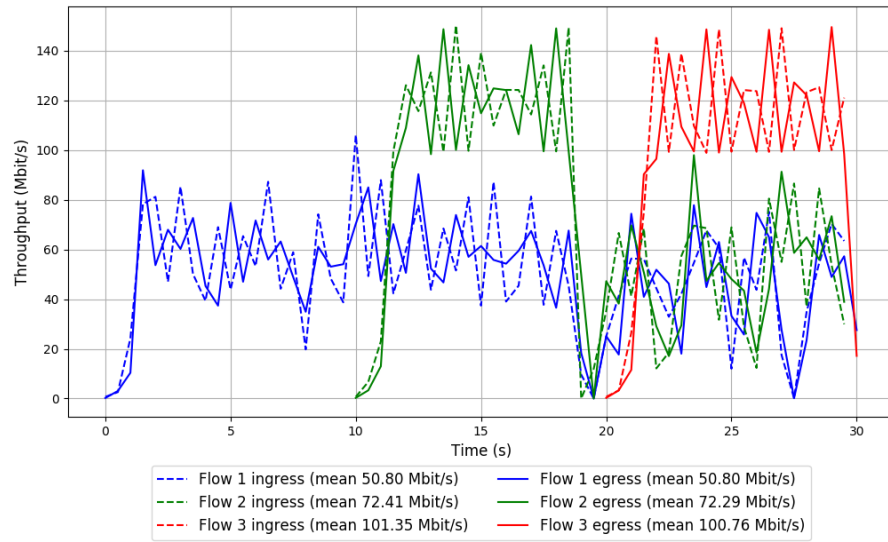
-- Flow 3:

Average throughput: 100.76 Mbit/s

95th percentile per-packet one-way delay: 127.517 ms

Loss rate: 0.27%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2017-12-06 00:35:52

End at: 2017-12-06 00:36:22

Below is generated by plot.py at 2017-12-06 02:43:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 154.40 Mbit/s

95th percentile per-packet one-way delay: 126.320 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 72.34 Mbit/s

95th percentile per-packet one-way delay: 126.653 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 72.56 Mbit/s

95th percentile per-packet one-way delay: 127.455 ms

Loss rate: 0.00%

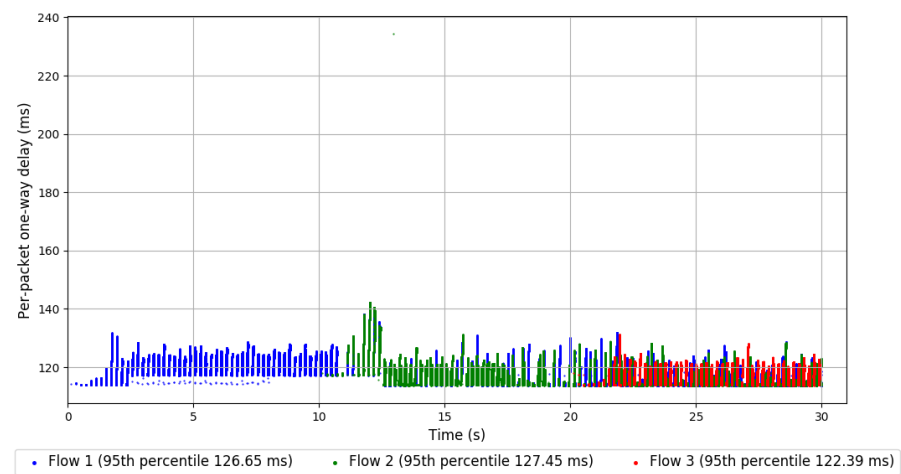
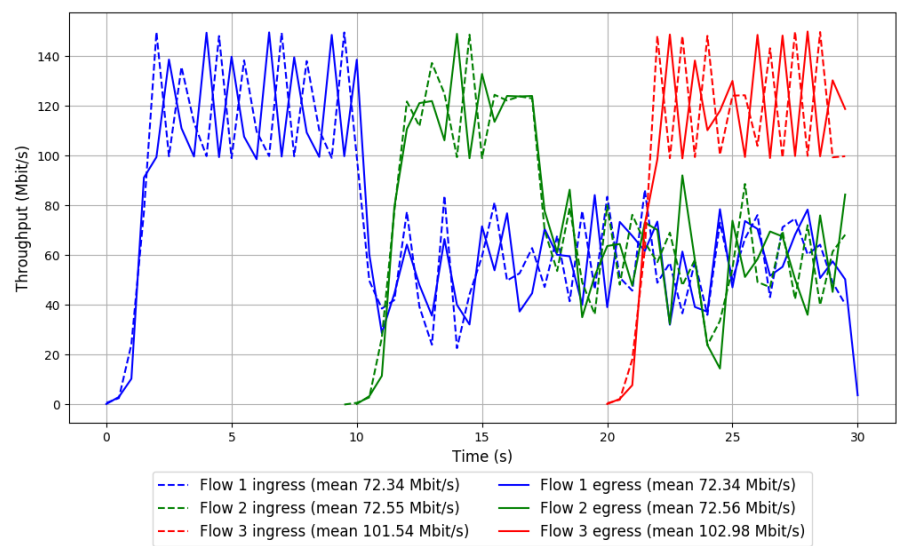
-- Flow 3:

Average throughput: 102.98 Mbit/s

95th percentile per-packet one-way delay: 122.385 ms

Loss rate: 0.00%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2017-12-06 00:48:34

End at: 2017-12-06 00:49:04

Below is generated by plot.py at 2017-12-06 02:43:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 111.45 Mbit/s

95th percentile per-packet one-way delay: 127.566 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 53.90 Mbit/s

95th percentile per-packet one-way delay: 124.002 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 60.74 Mbit/s

95th percentile per-packet one-way delay: 128.306 ms

Loss rate: 0.00%

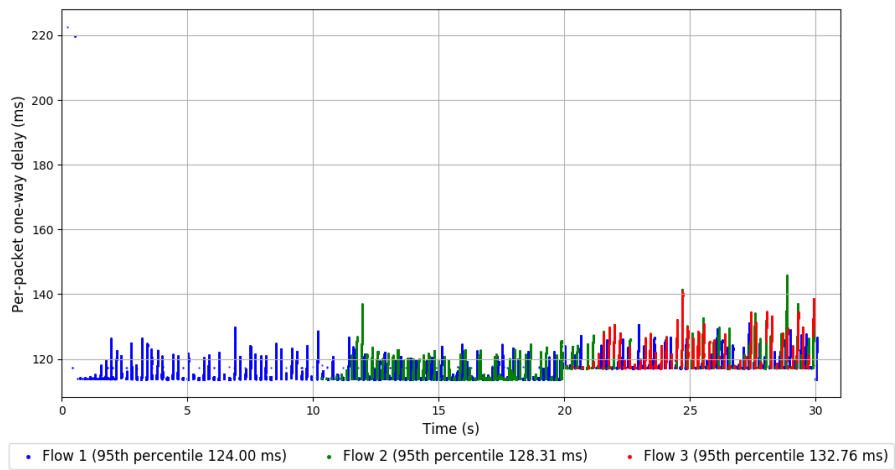
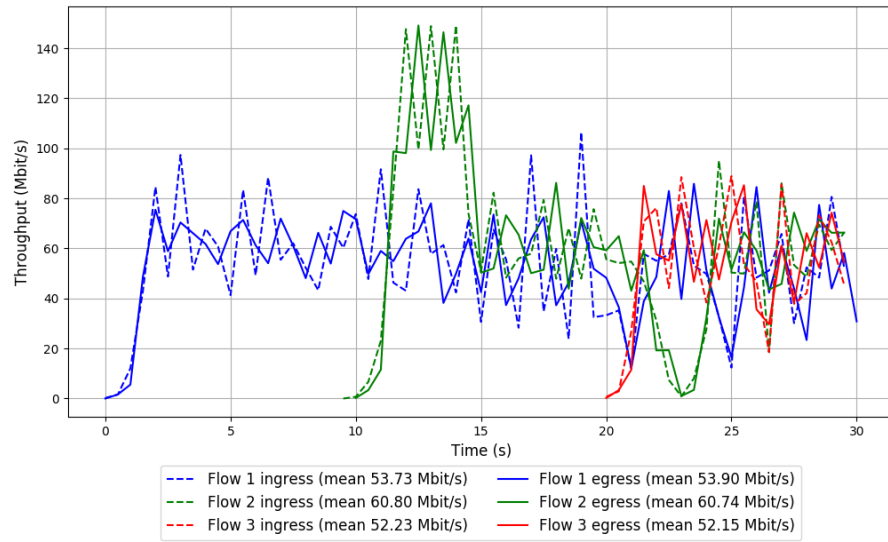
-- Flow 3:

Average throughput: 52.15 Mbit/s

95th percentile per-packet one-way delay: 132.759 ms

Loss rate: 0.00%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2017-12-06 01:01:08

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

Below is generated by plot.py at 2017-12-06 02:43:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 163.80 Mbit/s

95th percentile per-packet one-way delay: 120.085 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 103.12 Mbit/s

95th percentile per-packet one-way delay: 121.048 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 61.75 Mbit/s

95th percentile per-packet one-way delay: 101.023 ms

Loss rate: 0.01%

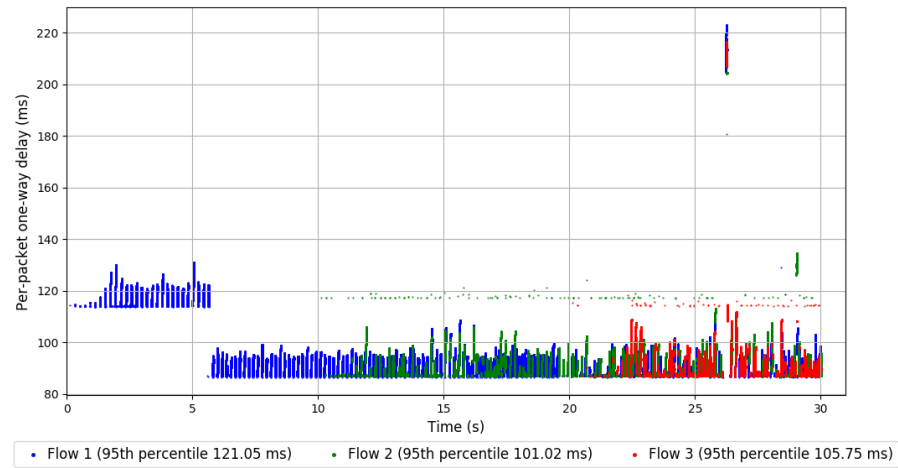
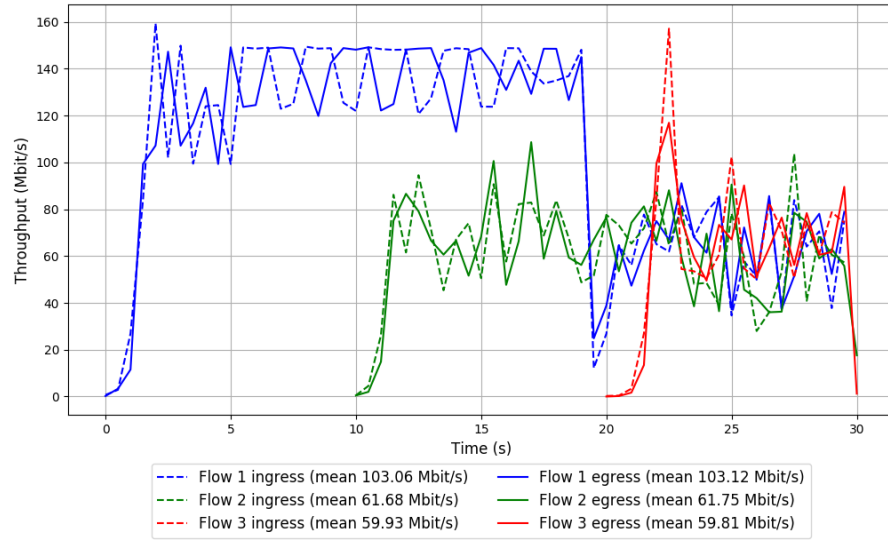
-- Flow 3:

Average throughput: 59.81 Mbit/s

95th percentile per-packet one-way delay: 105.747 ms

Loss rate: 0.47%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2017-12-06 01:13:45

End at: 2017-12-06 01:14:15

Below is generated by plot.py at 2017-12-06 02:43:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 109.98 Mbit/s

95th percentile per-packet one-way delay: 123.121 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 55.09 Mbit/s

95th percentile per-packet one-way delay: 121.732 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 51.91 Mbit/s

95th percentile per-packet one-way delay: 124.730 ms

Loss rate: 0.00%

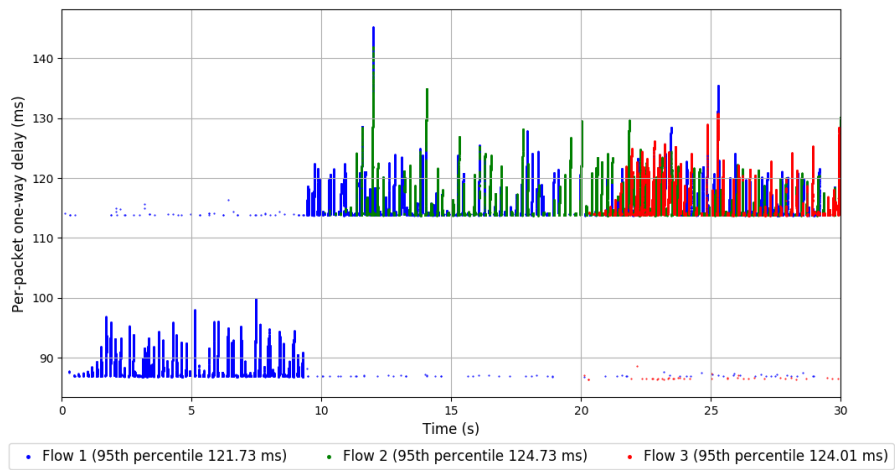
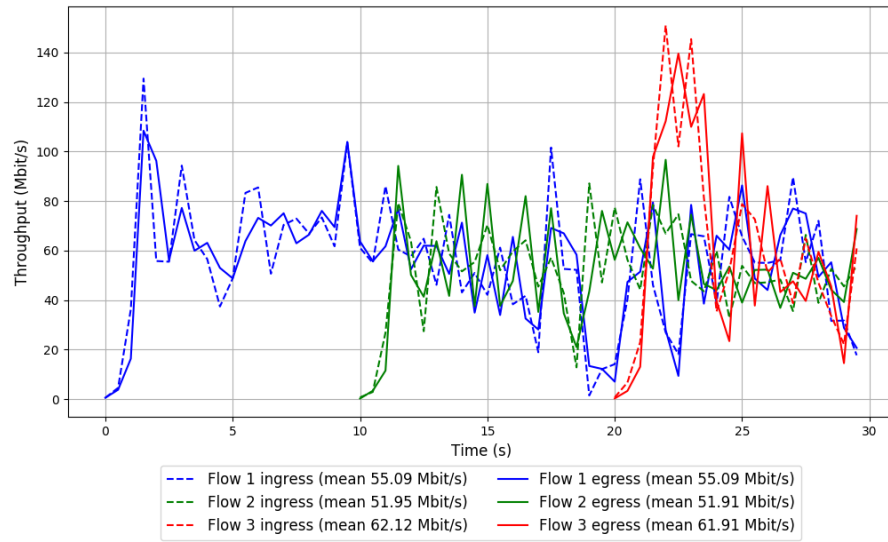
-- Flow 3:

Average throughput: 61.91 Mbit/s

95th percentile per-packet one-way delay: 124.007 ms

Loss rate: 0.00%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2017-12-06 01:26:32

End at: 2017-12-06 01:27:02

Below is generated by plot.py at 2017-12-06 02:44:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 124.79 Mbit/s

95th percentile per-packet one-way delay: 96.359 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 64.54 Mbit/s

95th percentile per-packet one-way delay: 95.177 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 60.39 Mbit/s

95th percentile per-packet one-way delay: 98.010 ms

Loss rate: 0.00%

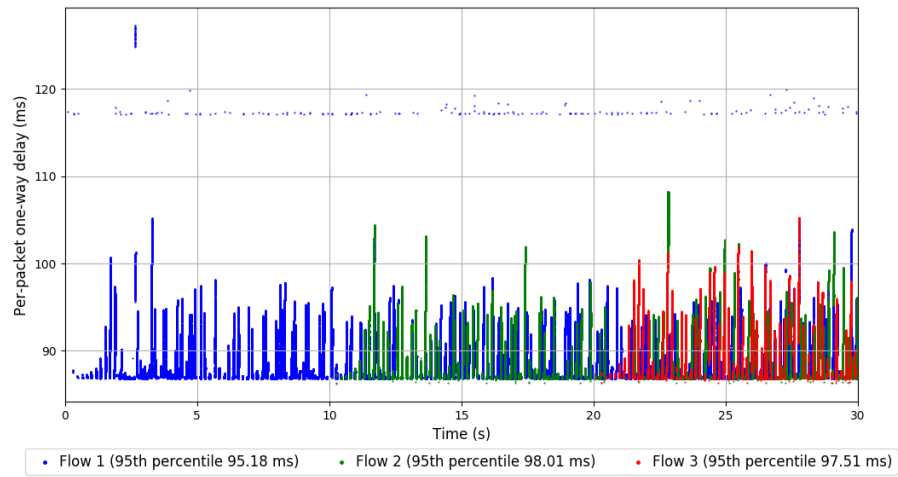
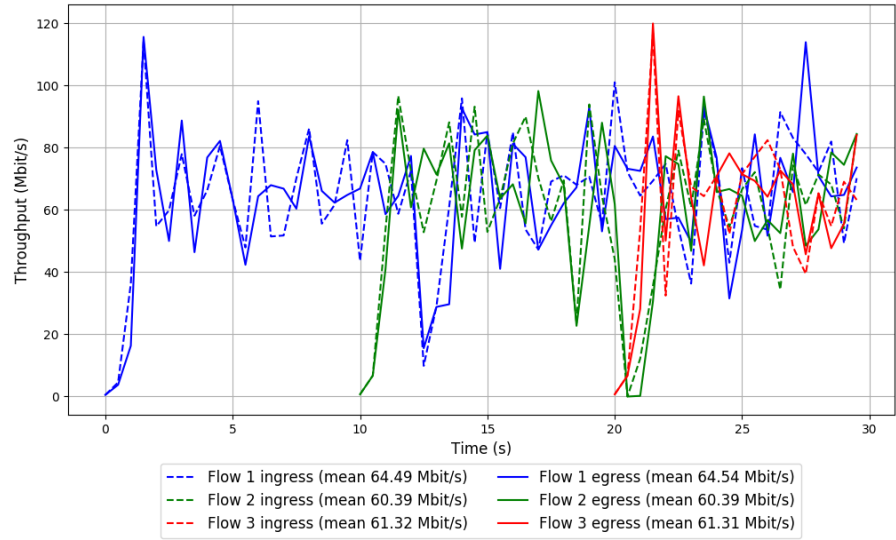
-- Flow 3:

Average throughput: 61.31 Mbit/s

95th percentile per-packet one-way delay: 97.507 ms

Loss rate: 0.00%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2017-12-05 23:25:31

End at: 2017-12-05 23:26:01

Below is generated by plot.py at 2017-12-06 02:45:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 166.78 Mbit/s

95th percentile per-packet one-way delay: 94.427 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 80.22 Mbit/s

95th percentile per-packet one-way delay: 92.488 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 129.40 Mbit/s

95th percentile per-packet one-way delay: 95.341 ms

Loss rate: 0.00%

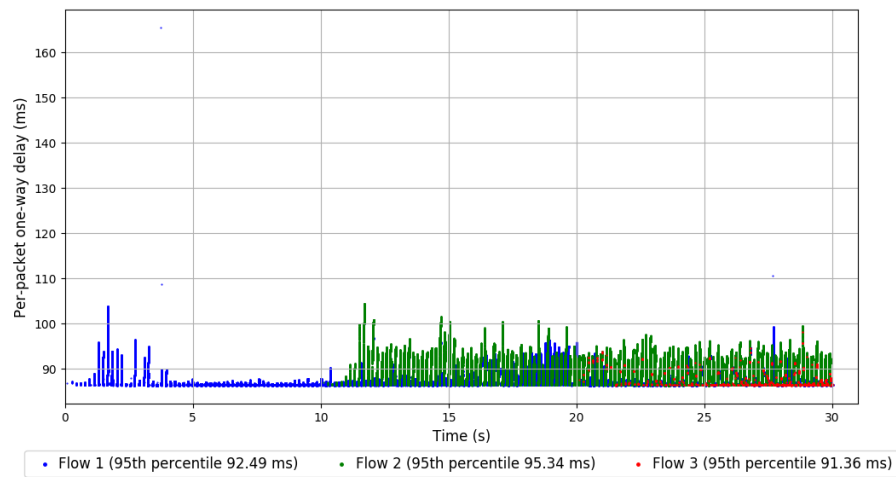
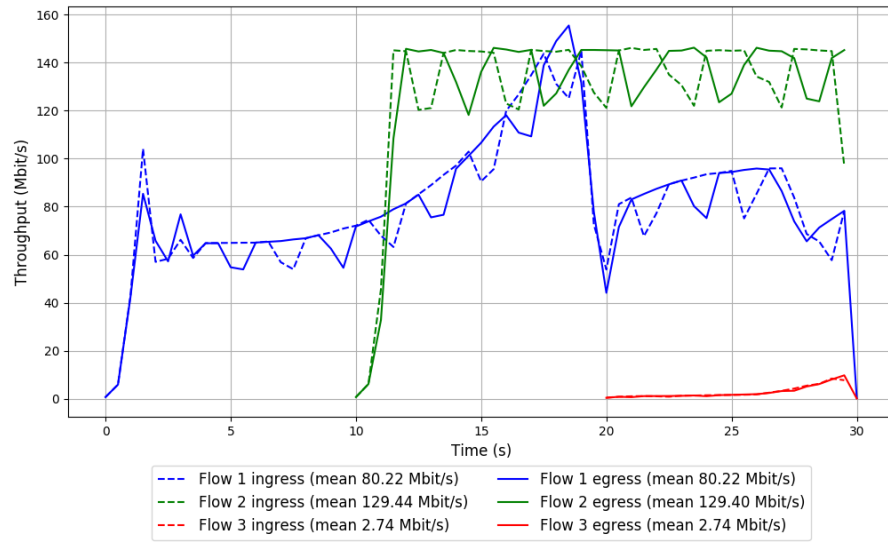
-- Flow 3:

Average throughput: 2.74 Mbit/s

95th percentile per-packet one-way delay: 91.358 ms

Loss rate: 0.18%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2017-12-05 23:38:31

End at: 2017-12-05 23:39:01

Below is generated by plot.py at 2017-12-06 02:45:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 170.46 Mbit/s

95th percentile per-packet one-way delay: 94.737 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 84.36 Mbit/s

95th percentile per-packet one-way delay: 94.530 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 69.15 Mbit/s

95th percentile per-packet one-way delay: 93.077 ms

Loss rate: 0.00%

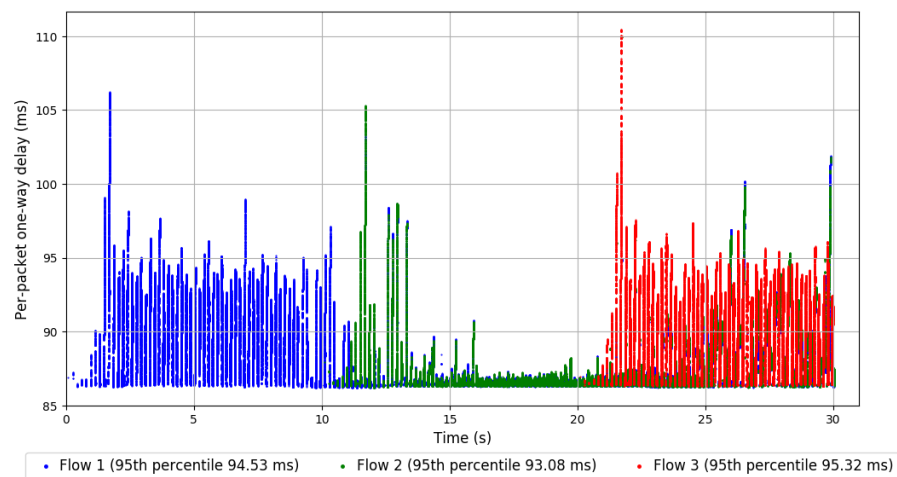
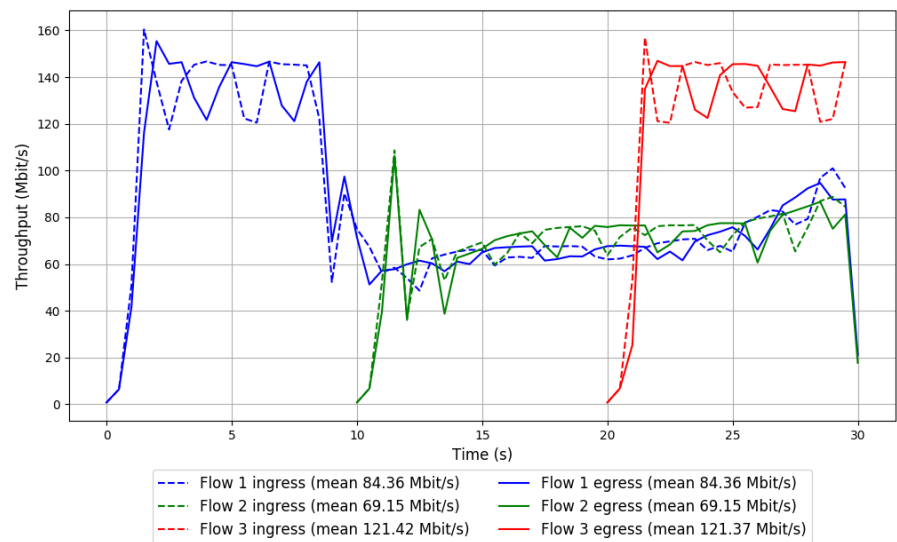
-- Flow 3:

Average throughput: 121.37 Mbit/s

95th percentile per-packet one-way delay: 95.319 ms

Loss rate: 0.00%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2017-12-05 23:51:38

End at: 2017-12-05 23:52:08

Below is generated by plot.py at 2017-12-06 02:45:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 152.95 Mbit/s

95th percentile per-packet one-way delay: 93.918 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 75.05 Mbit/s

95th percentile per-packet one-way delay: 92.435 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 82.87 Mbit/s

95th percentile per-packet one-way delay: 94.147 ms

Loss rate: 0.00%

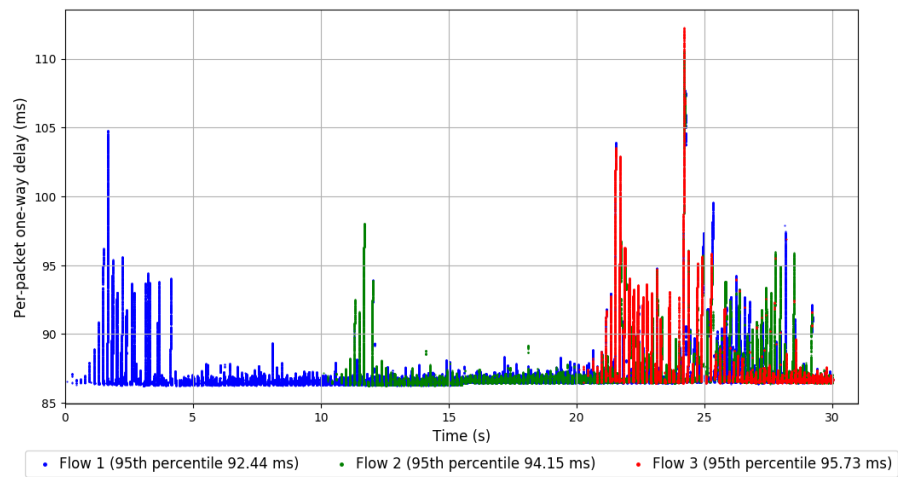
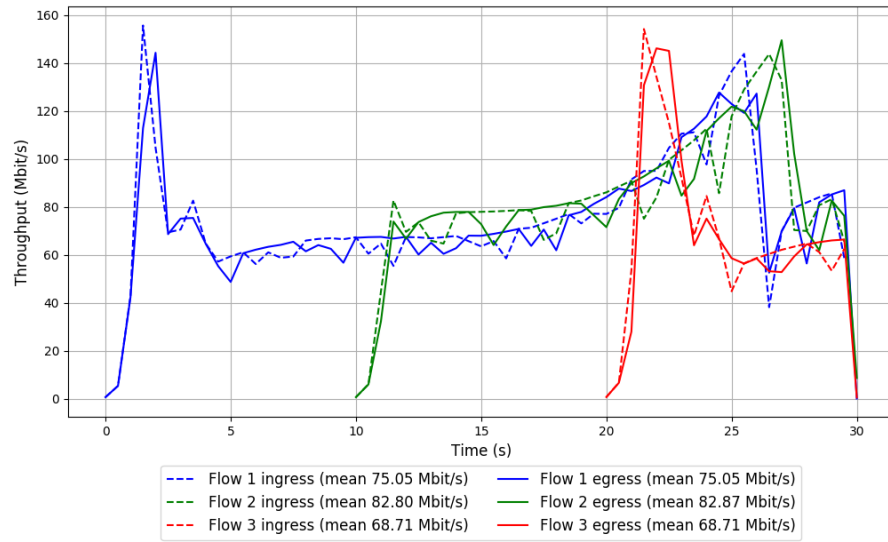
-- Flow 3:

Average throughput: 68.71 Mbit/s

95th percentile per-packet one-way delay: 95.733 ms

Loss rate: 0.00%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2017-12-06 00:04:09

End at: 2017-12-06 00:04:39

Below is generated by plot.py at 2017-12-06 02:45:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 102.96 Mbit/s

95th percentile per-packet one-way delay: 124.412 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 89.74 Mbit/s

95th percentile per-packet one-way delay: 124.638 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 16.16 Mbit/s

95th percentile per-packet one-way delay: 123.093 ms

Loss rate: 0.00%

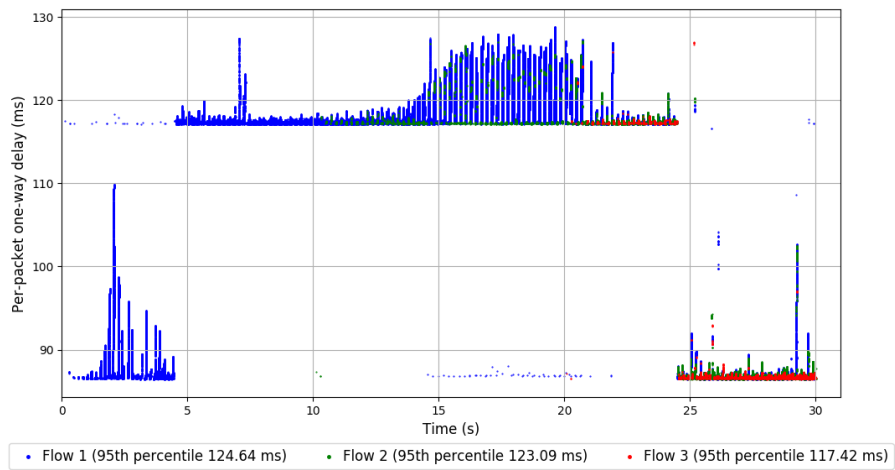
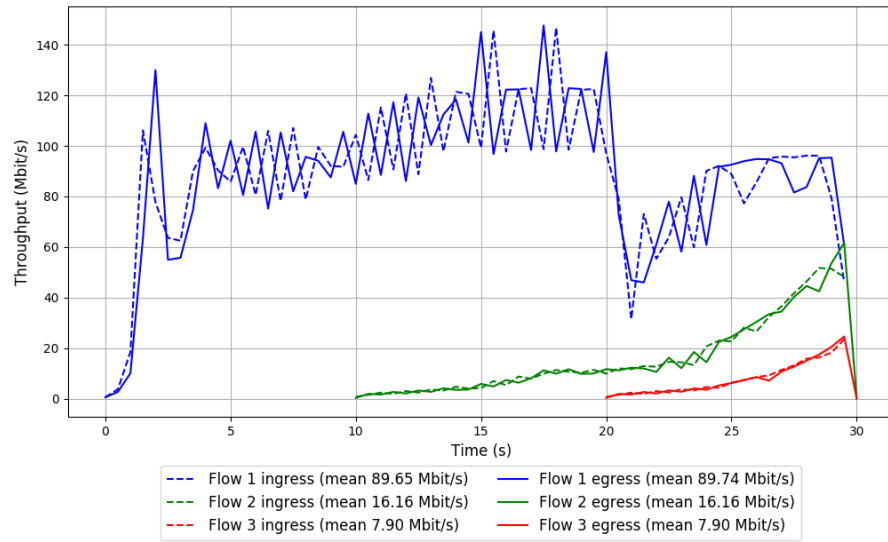
-- Flow 3:

Average throughput: 7.90 Mbit/s

95th percentile per-packet one-way delay: 117.416 ms

Loss rate: 0.00%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2017-12-06 00:16:38

End at: 2017-12-06 00:17:08

Below is generated by plot.py at 2017-12-06 02:46:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 184.50 Mbit/s

95th percentile per-packet one-way delay: 125.880 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 114.58 Mbit/s

95th percentile per-packet one-way delay: 125.470 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 58.86 Mbit/s

95th percentile per-packet one-way delay: 126.199 ms

Loss rate: 0.00%

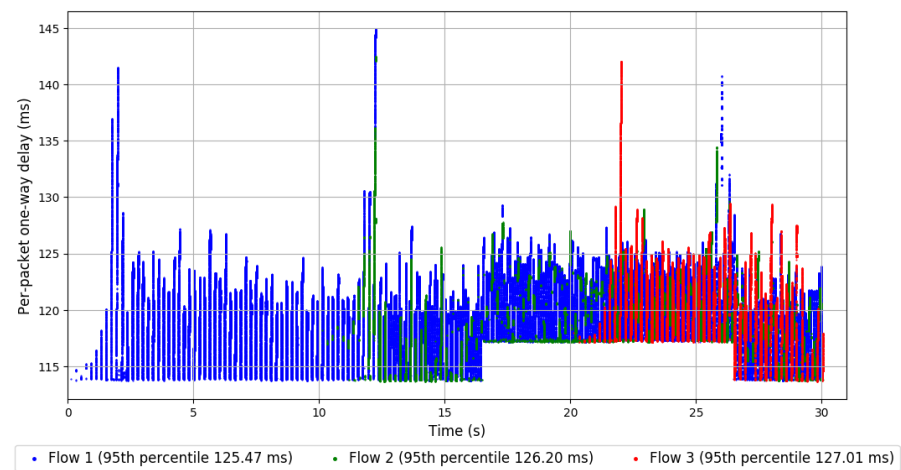
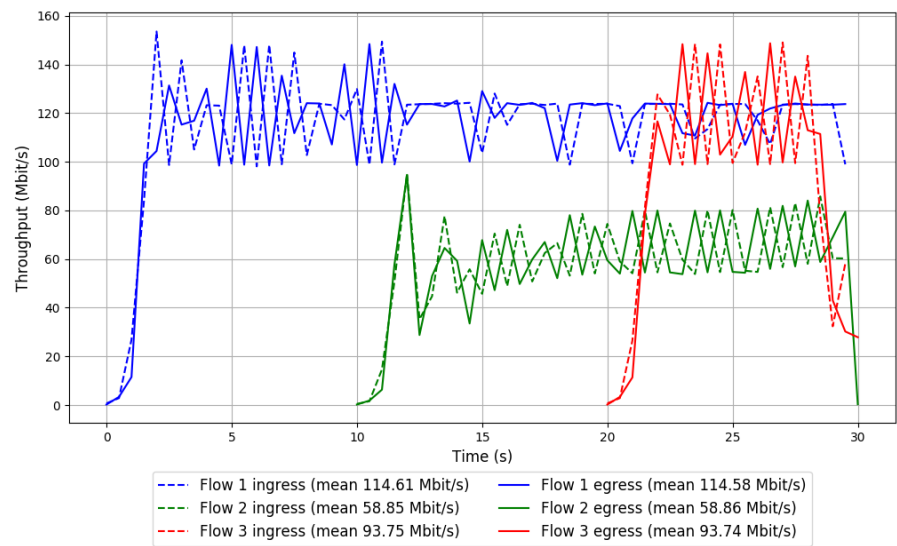
-- Flow 3:

Average throughput: 93.74 Mbit/s

95th percentile per-packet one-way delay: 127.014 ms

Loss rate: 0.01%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2017-12-06 00:29:32

End at: 2017-12-06 00:30:02

Below is generated by plot.py at 2017-12-06 02:46:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 100.27 Mbit/s

95th percentile per-packet one-way delay: 122.841 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 53.01 Mbit/s

95th percentile per-packet one-way delay: 121.428 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 19.51 Mbit/s

95th percentile per-packet one-way delay: 122.398 ms

Loss rate: 0.00%

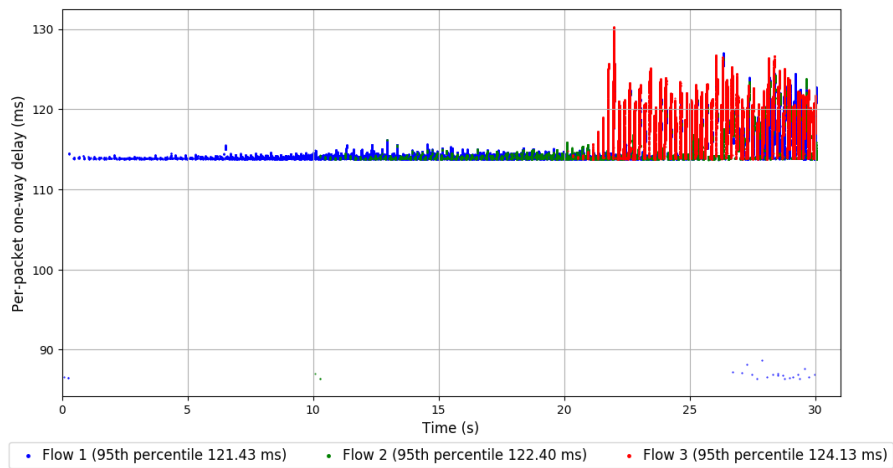
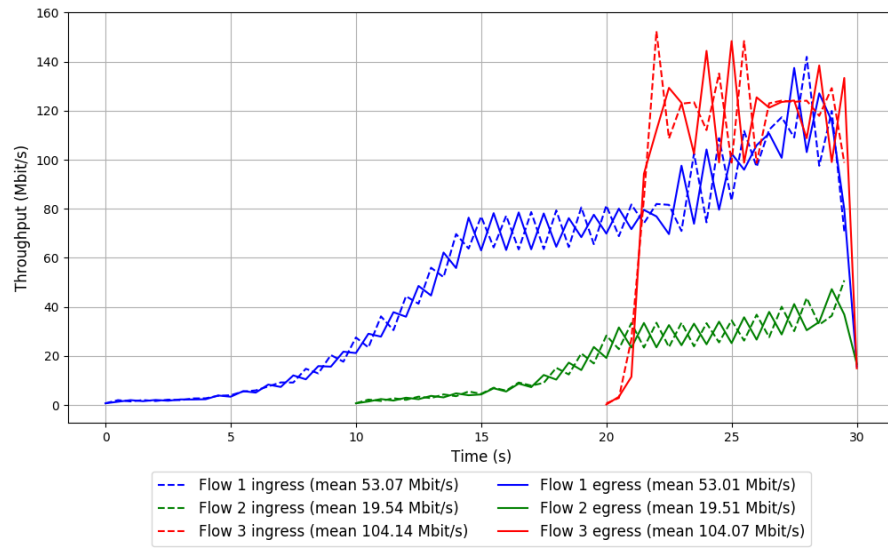
-- Flow 3:

Average throughput: 104.07 Mbit/s

95th percentile per-packet one-way delay: 124.126 ms

Loss rate: 0.00%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2017-12-06 00:42:09

End at: 2017-12-06 00:42:39

Below is generated by plot.py at 2017-12-06 02:46:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 82.98 Mbit/s

95th percentile per-packet one-way delay: 127.349 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 53.80 Mbit/s

95th percentile per-packet one-way delay: 127.034 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 40.68 Mbit/s

95th percentile per-packet one-way delay: 128.839 ms

Loss rate: 0.31%

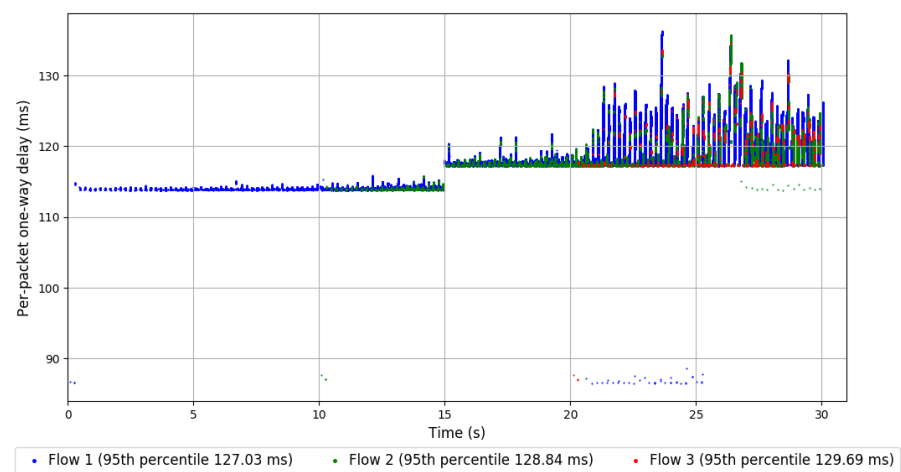
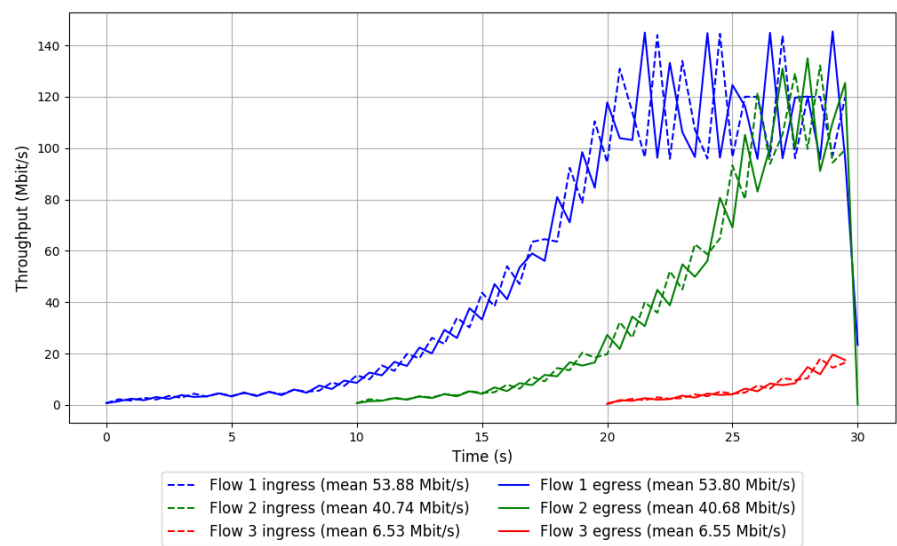
-- Flow 3:

Average throughput: 6.55 Mbit/s

95th percentile per-packet one-way delay: 129.688 ms

Loss rate: 0.11%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2017-12-06 00:54:55

End at: 2017-12-06 00:55:25

Below is generated by plot.py at 2017-12-06 02:46:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 146.99 Mbit/s

95th percentile per-packet one-way delay: 121.896 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 70.67 Mbit/s

95th percentile per-packet one-way delay: 121.015 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 67.22 Mbit/s

95th percentile per-packet one-way delay: 122.834 ms

Loss rate: 0.00%

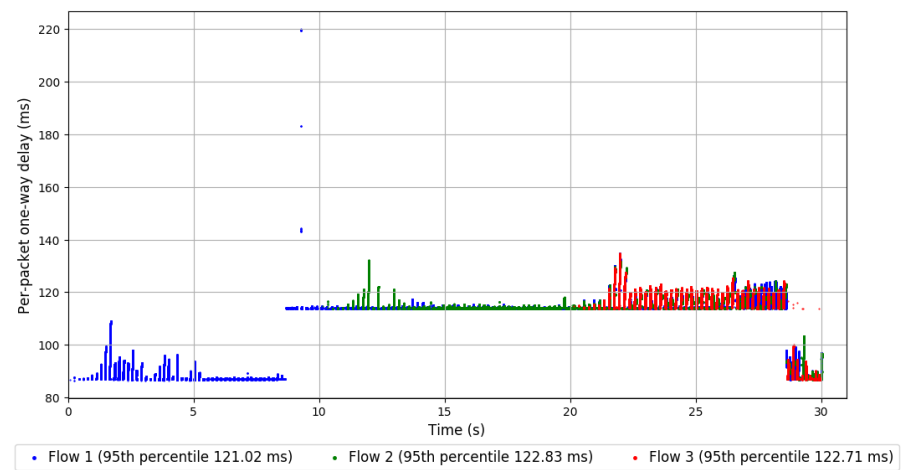
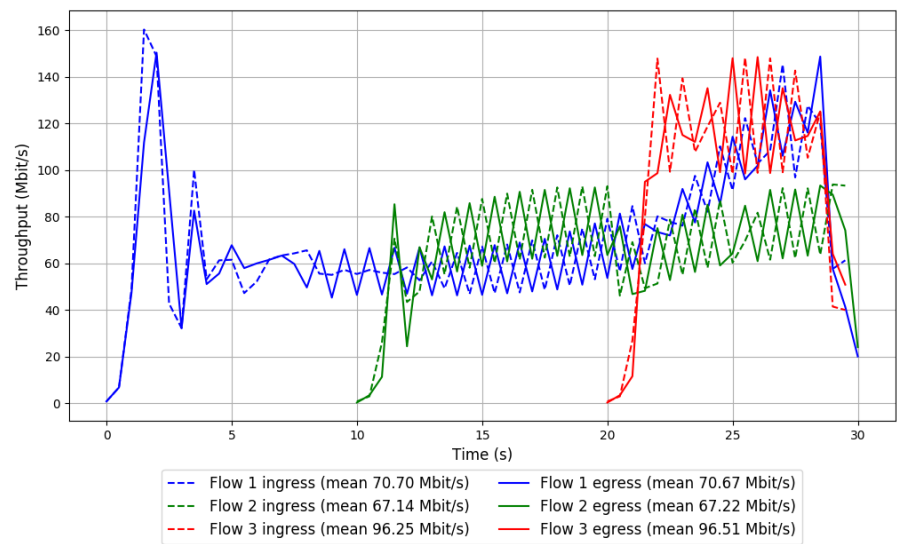
-- Flow 3:

Average throughput: 96.51 Mbit/s

95th percentile per-packet one-way delay: 122.711 ms

Loss rate: 0.00%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2017-12-06 01:07:33

End at: 2017-12-06 01:08:03

Below is generated by plot.py at 2017-12-06 02:47:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 153.14 Mbit/s

95th percentile per-packet one-way delay: 93.666 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 86.12 Mbit/s

95th percentile per-packet one-way delay: 92.029 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 71.07 Mbit/s

95th percentile per-packet one-way delay: 94.695 ms

Loss rate: 0.00%

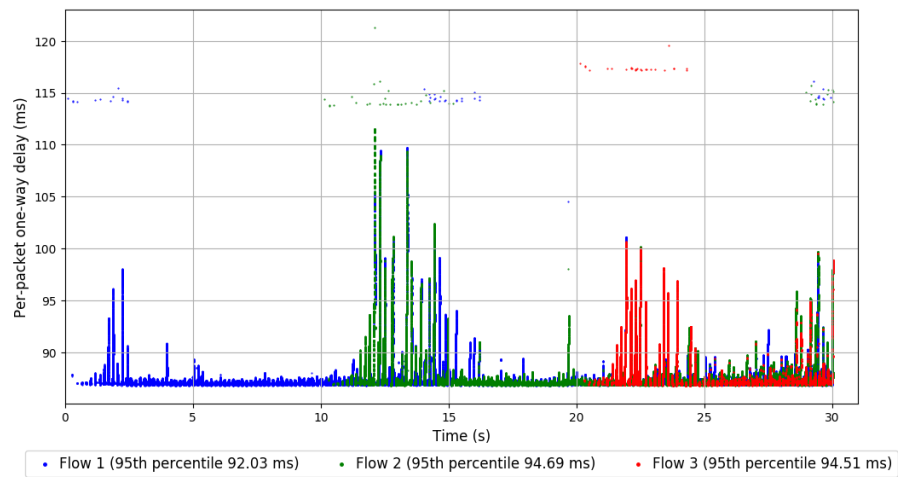
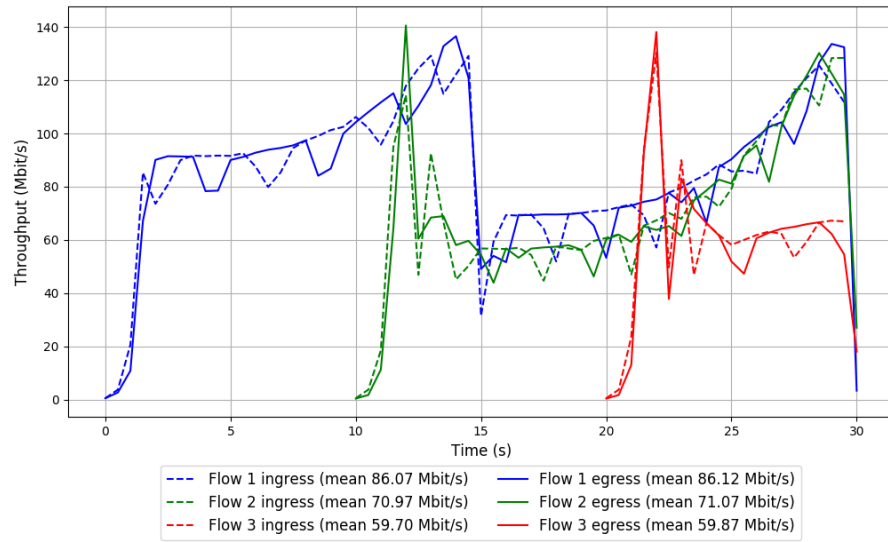
-- Flow 3:

Average throughput: 59.87 Mbit/s

95th percentile per-packet one-way delay: 94.506 ms

Loss rate: 0.00%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2017-12-06 01:20:17

End at: 2017-12-06 01:20:47

Below is generated by plot.py at 2017-12-06 02:47:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 130.57 Mbit/s

95th percentile per-packet one-way delay: 94.357 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 111.19 Mbit/s

95th percentile per-packet one-way delay: 94.570 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 28.11 Mbit/s

95th percentile per-packet one-way delay: 89.066 ms

Loss rate: 0.03%

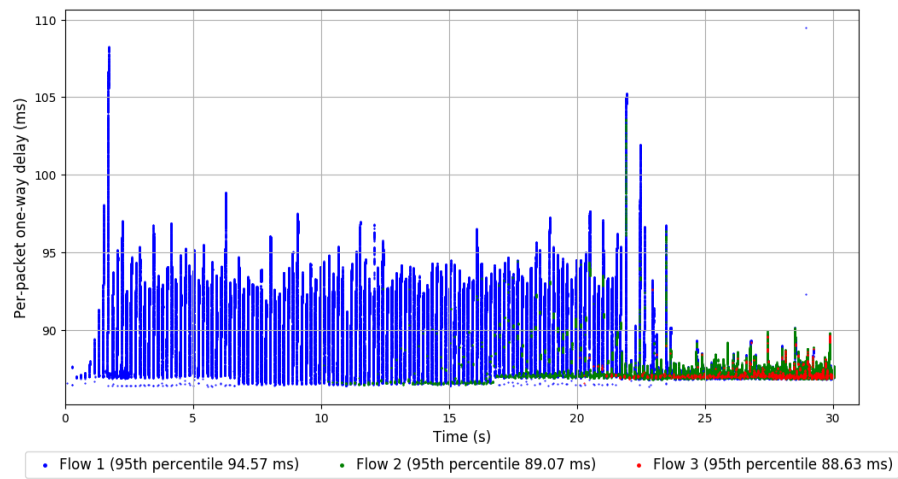
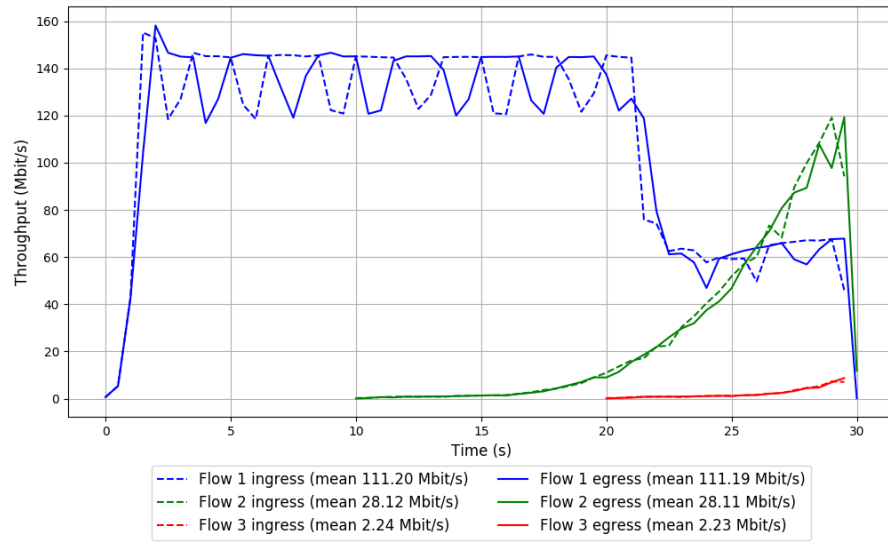
-- Flow 3:

Average throughput: 2.23 Mbit/s

95th percentile per-packet one-way delay: 88.627 ms

Loss rate: 0.49%

Run 10: Report of TCP Cubic — Data Link

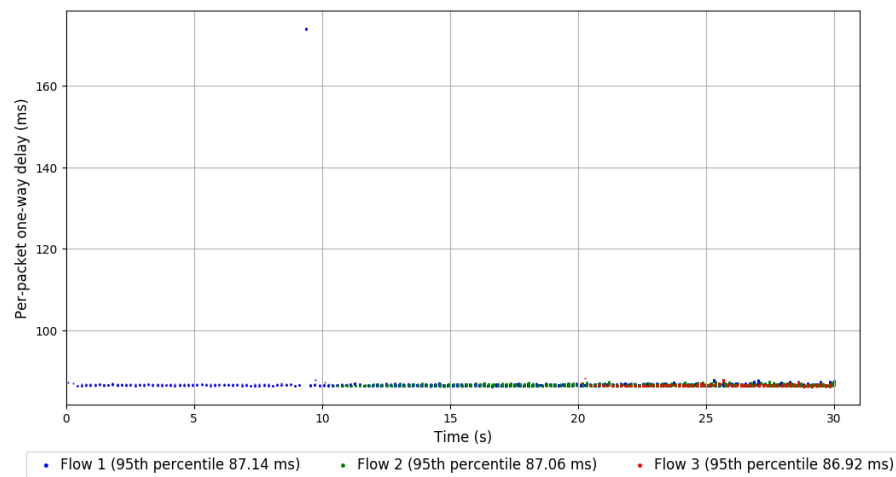
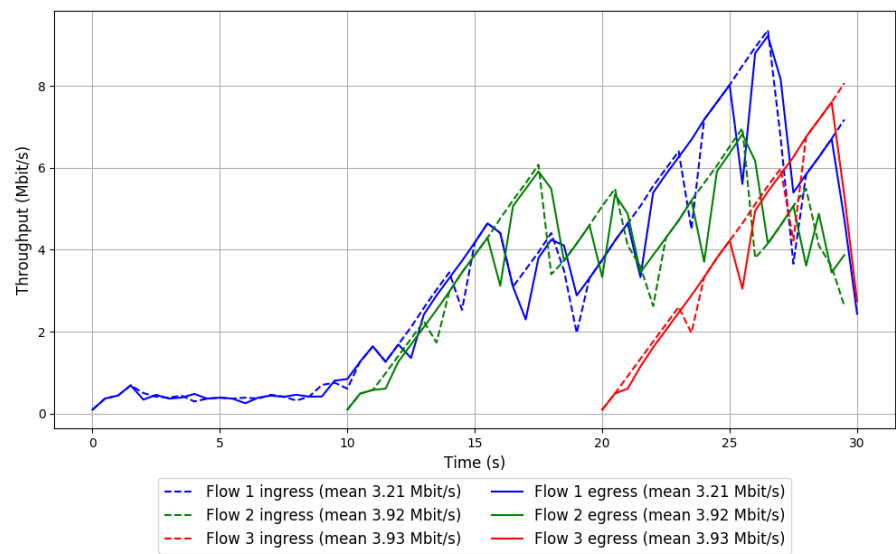


```
Run 1: Statistics of LEDBAT

Start at: 2017-12-05 23:26:25
End at: 2017-12-05 23:26:55

# Below is generated by plot.py at 2017-12-06 02:47:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 7.10 Mbit/s
95th percentile per-packet one-way delay: 87.077 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 3.21 Mbit/s
95th percentile per-packet one-way delay: 87.143 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 3.92 Mbit/s
95th percentile per-packet one-way delay: 87.060 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 3.93 Mbit/s
95th percentile per-packet one-way delay: 86.925 ms
Loss rate: 0.00%
```


Run 1: Report of LEDBAT — Data Link

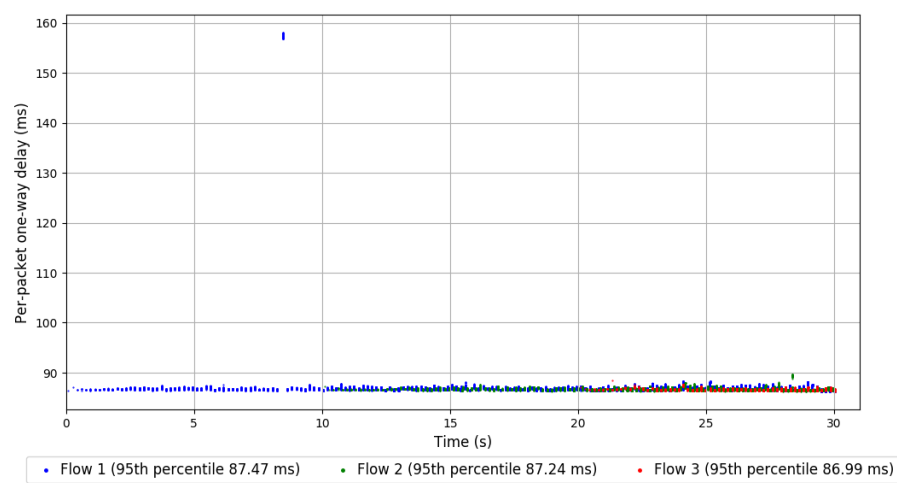
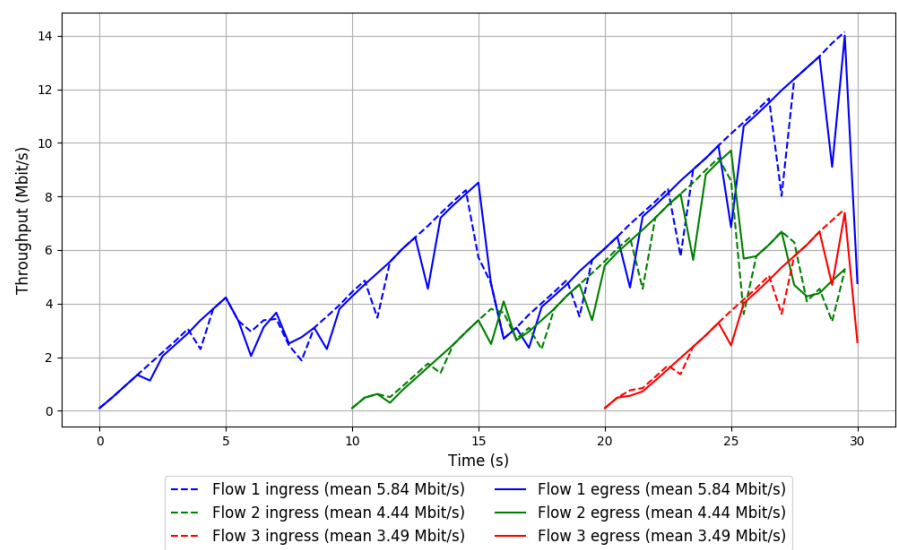


```
Run 2: Statistics of LEDBAT

Start at: 2017-12-05 23:39:26
End at: 2017-12-05 23:39:56

# Below is generated by plot.py at 2017-12-06 02:47:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 9.94 Mbit/s
95th percentile per-packet one-way delay: 87.386 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 5.84 Mbit/s
95th percentile per-packet one-way delay: 87.465 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 4.44 Mbit/s
95th percentile per-packet one-way delay: 87.238 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 3.49 Mbit/s
95th percentile per-packet one-way delay: 86.991 ms
Loss rate: 0.00%
```

Run 2: Report of LEDBAT — Data Link

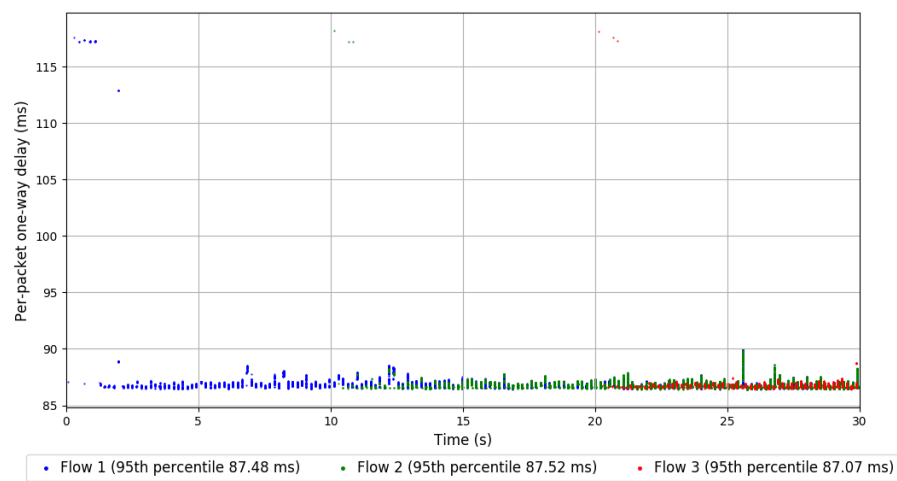
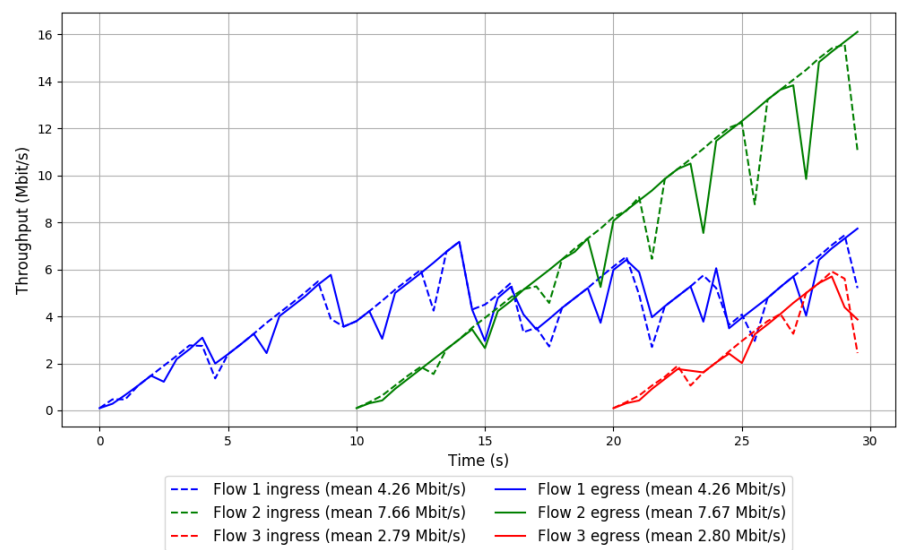


```
Run 3: Statistics of LEDBAT

Start at: 2017-12-05 23:52:33
End at: 2017-12-05 23:53:03

# Below is generated by plot.py at 2017-12-06 02:47:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 10.27 Mbit/s
95th percentile per-packet one-way delay: 87.469 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 4.26 Mbit/s
95th percentile per-packet one-way delay: 87.481 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 7.67 Mbit/s
95th percentile per-packet one-way delay: 87.520 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 2.80 Mbit/s
95th percentile per-packet one-way delay: 87.072 ms
Loss rate: 0.00%
```

Run 3: Report of LEDBAT — Data Link

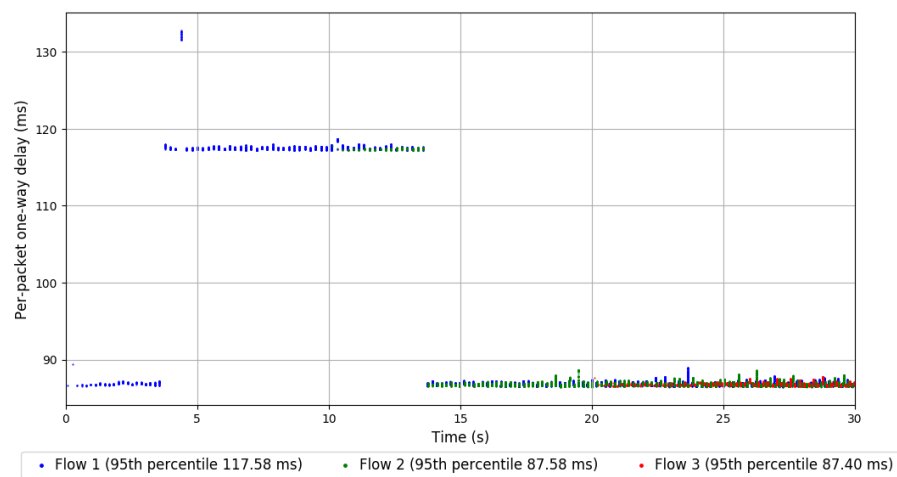
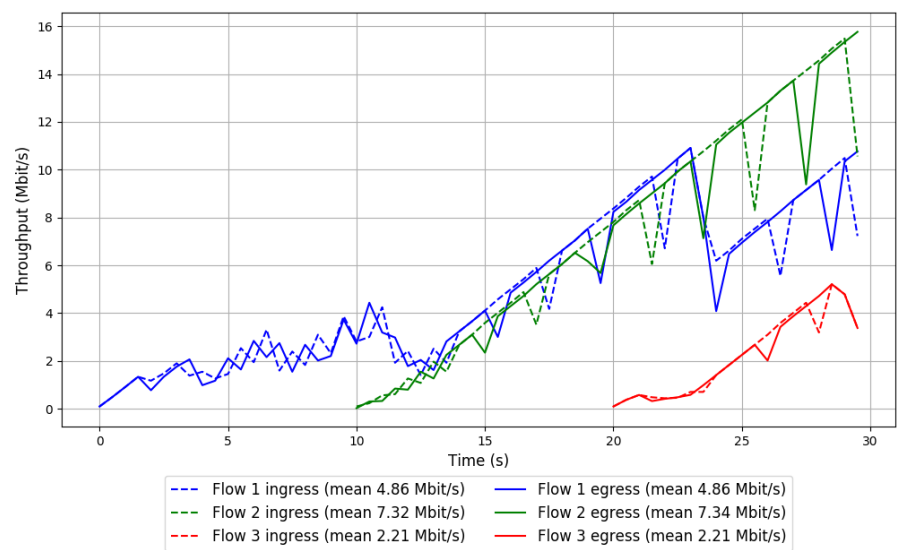


```
Run 4: Statistics of LEDBAT

Start at: 2017-12-06 00:05:00
End at: 2017-12-06 00:05:30

# Below is generated by plot.py at 2017-12-06 02:47:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 10.43 Mbit/s
95th percentile per-packet one-way delay: 117.409 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 4.86 Mbit/s
95th percentile per-packet one-way delay: 117.578 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 7.34 Mbit/s
95th percentile per-packet one-way delay: 87.583 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 2.21 Mbit/s
95th percentile per-packet one-way delay: 87.399 ms
Loss rate: 0.00%
```

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2017-12-06 00:17:35

End at: 2017-12-06 00:18:05

Below is generated by plot.py at 2017-12-06 02:47:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 7.58 Mbit/s

95th percentile per-packet one-way delay: 118.505 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 4.15 Mbit/s

95th percentile per-packet one-way delay: 118.656 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 4.41 Mbit/s

95th percentile per-packet one-way delay: 118.035 ms

Loss rate: 0.00%

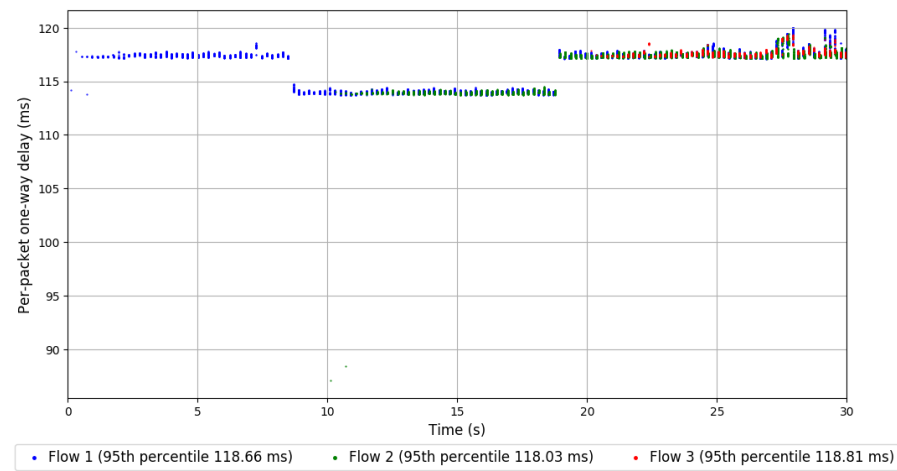
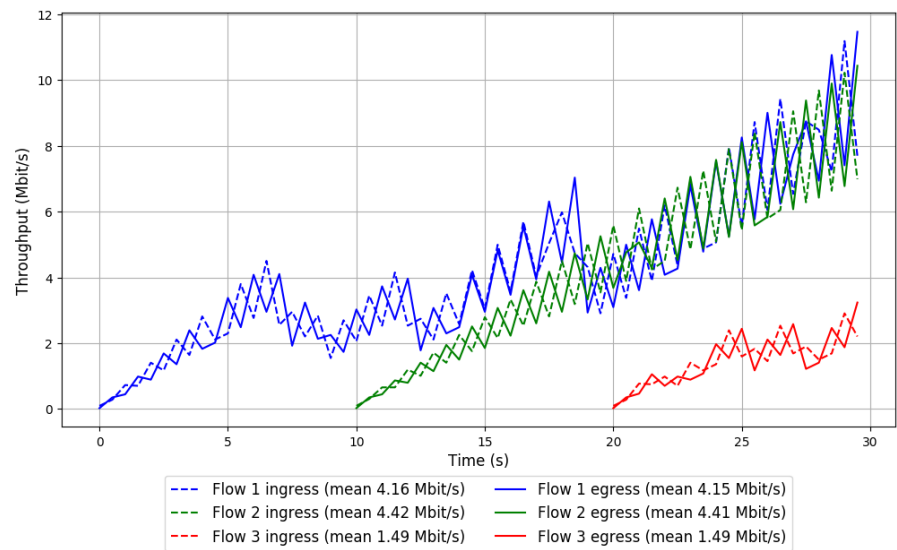
-- Flow 3:

Average throughput: 1.49 Mbit/s

95th percentile per-packet one-way delay: 118.813 ms

Loss rate: 0.00%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2017-12-06 00:30:24

End at: 2017-12-06 00:30:54

Below is generated by plot.py at 2017-12-06 02:47:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 8.09 Mbit/s

95th percentile per-packet one-way delay: 118.074 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 5.42 Mbit/s

95th percentile per-packet one-way delay: 118.116 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 3.00 Mbit/s

95th percentile per-packet one-way delay: 118.021 ms

Loss rate: 0.00%

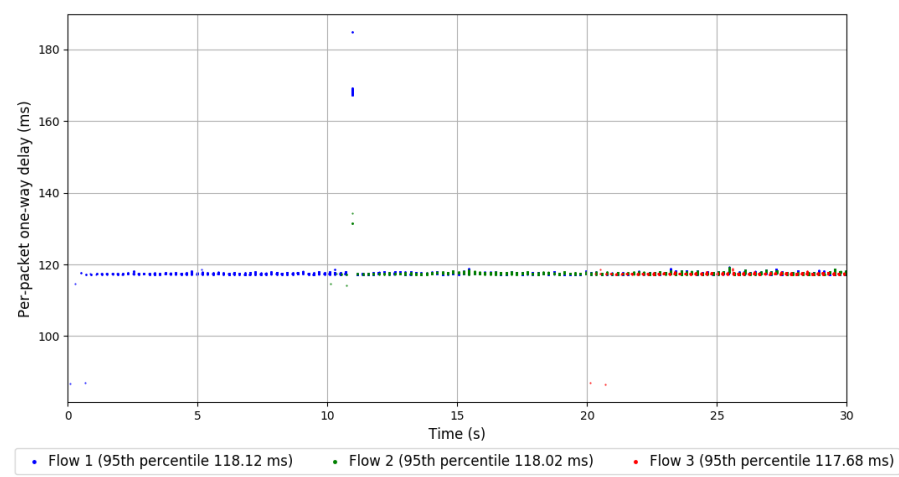
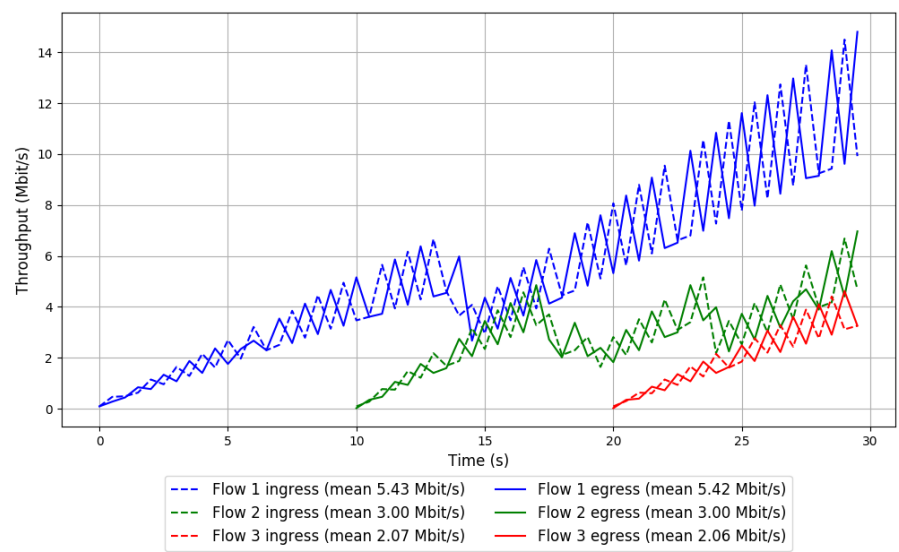
-- Flow 3:

Average throughput: 2.06 Mbit/s

95th percentile per-packet one-way delay: 117.679 ms

Loss rate: 0.00%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2017-12-06 00:43:00

End at: 2017-12-06 00:43:30

Below is generated by plot.py at 2017-12-06 02:47:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 6.53 Mbit/s

95th percentile per-packet one-way delay: 114.757 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.27 Mbit/s

95th percentile per-packet one-way delay: 114.965 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 5.19 Mbit/s

95th percentile per-packet one-way delay: 114.734 ms

Loss rate: 0.00%

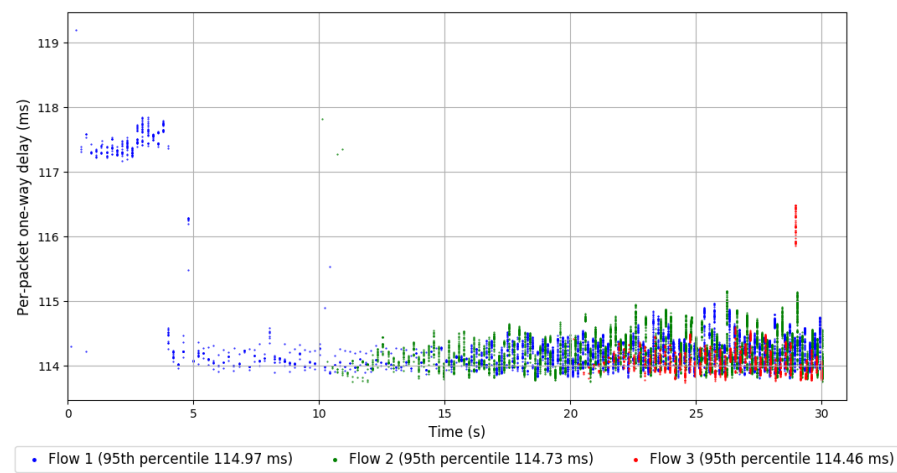
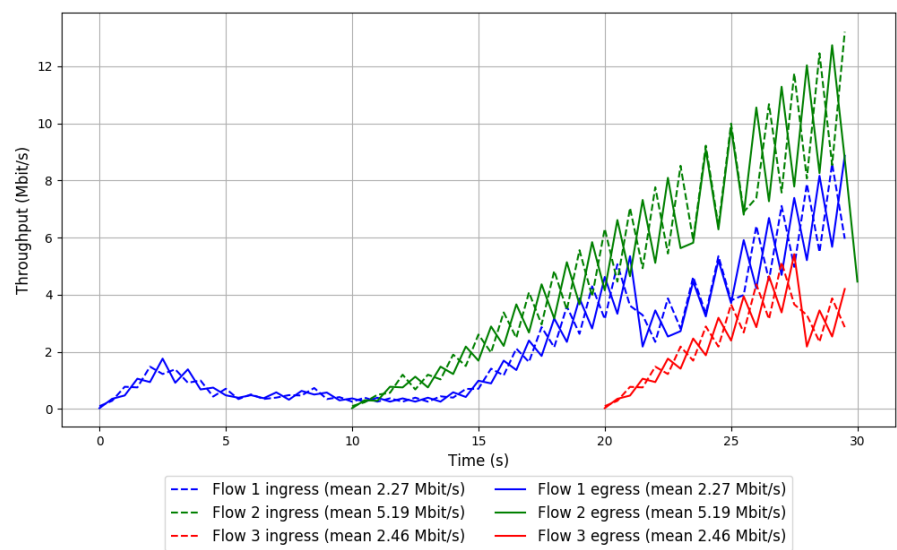
-- Flow 3:

Average throughput: 2.46 Mbit/s

95th percentile per-packet one-way delay: 114.456 ms

Loss rate: 0.00%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2017-12-06 00:55:49

End at: 2017-12-06 00:56:19

Below is generated by plot.py at 2017-12-06 02:47:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 8.48 Mbit/s

95th percentile per-packet one-way delay: 114.122 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 3.53 Mbit/s

95th percentile per-packet one-way delay: 114.229 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 5.70 Mbit/s

95th percentile per-packet one-way delay: 88.366 ms

Loss rate: 0.00%

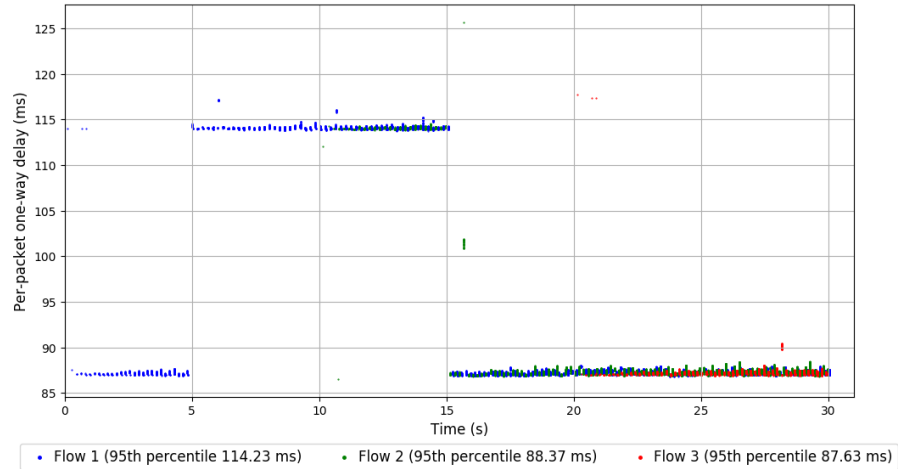
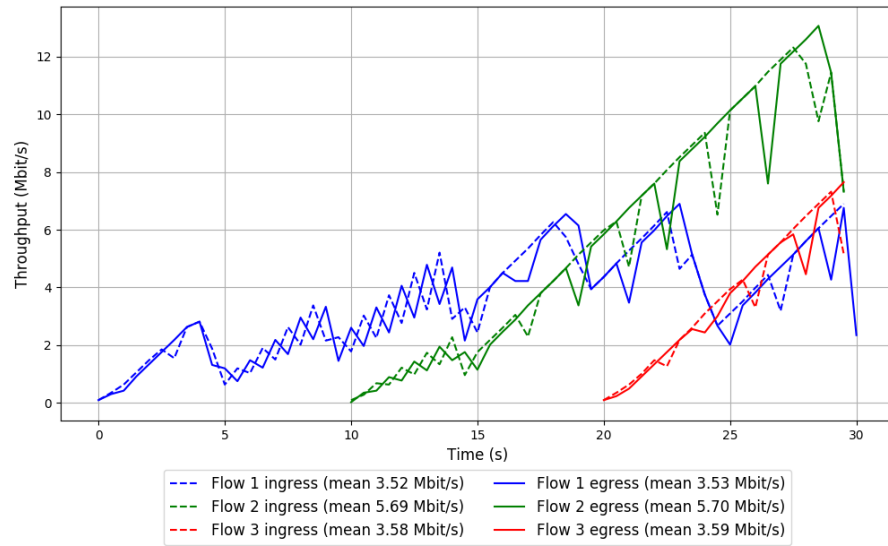
-- Flow 3:

Average throughput: 3.59 Mbit/s

95th percentile per-packet one-way delay: 87.626 ms

Loss rate: 0.00%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2017-12-06 01:08:27

End at: 2017-12-06 01:08:57

Below is generated by plot.py at 2017-12-06 02:47:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 9.25 Mbit/s

95th percentile per-packet one-way delay: 114.901 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 5.69 Mbit/s

95th percentile per-packet one-way delay: 114.966 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 4.50 Mbit/s

95th percentile per-packet one-way delay: 114.692 ms

Loss rate: 0.00%

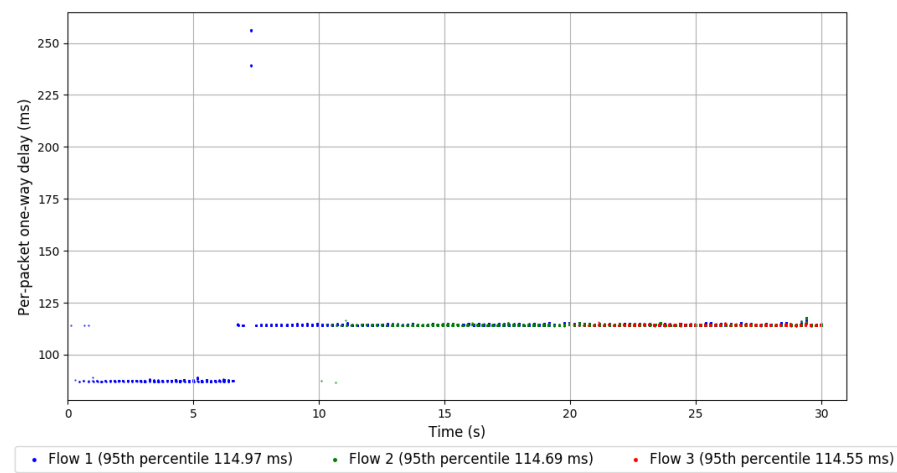
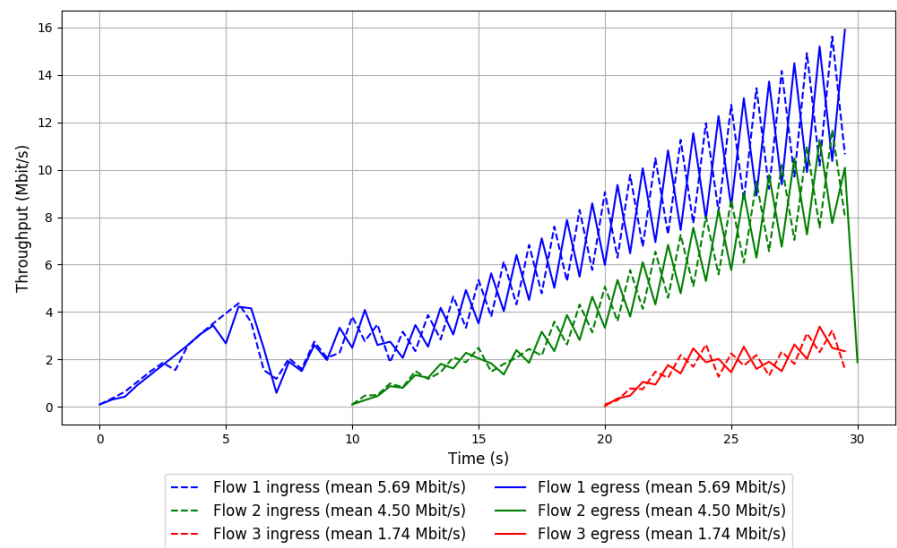
-- Flow 3:

Average throughput: 1.74 Mbit/s

95th percentile per-packet one-way delay: 114.550 ms

Loss rate: 0.00%

Run 9: Report of LEDBAT — Data Link

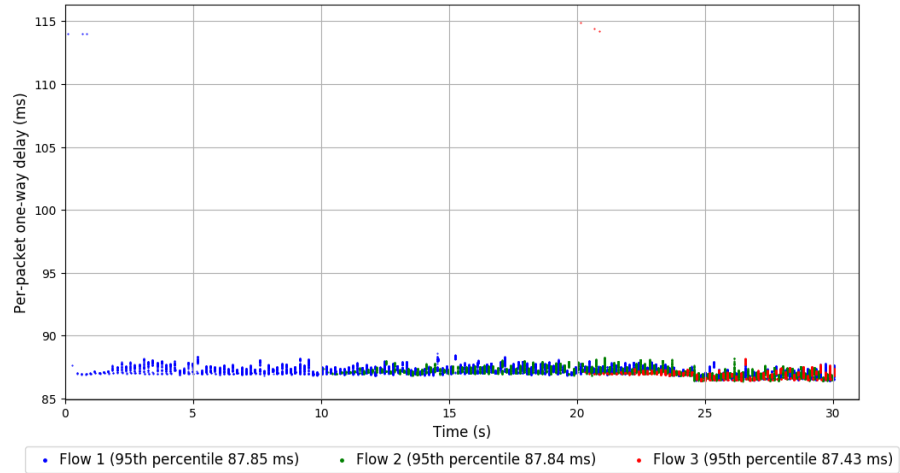
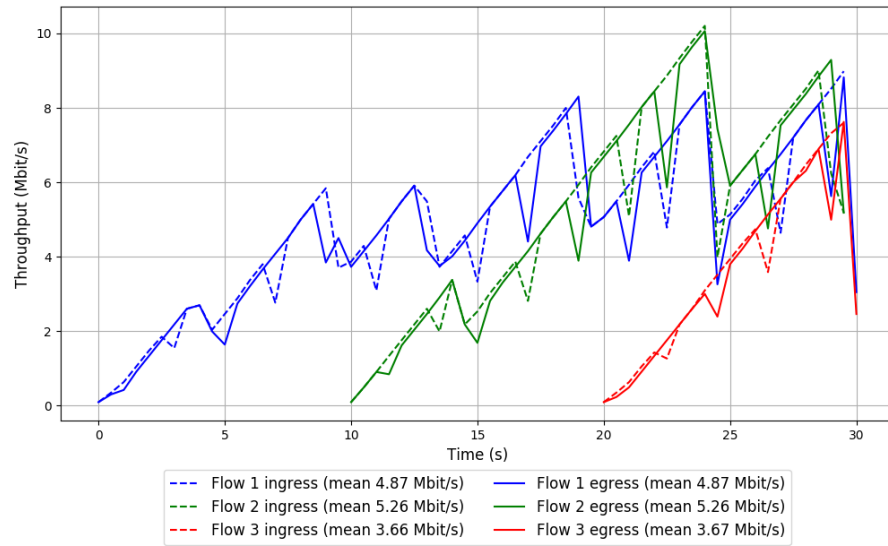


```
Run 10: Statistics of LEDBAT

Start at: 2017-12-06 01:21:09
End at: 2017-12-06 01:21:39

# Below is generated by plot.py at 2017-12-06 02:47:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 9.58 Mbit/s
95th percentile per-packet one-way delay: 87.830 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 4.87 Mbit/s
95th percentile per-packet one-way delay: 87.848 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 5.26 Mbit/s
95th percentile per-packet one-way delay: 87.838 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 3.67 Mbit/s
95th percentile per-packet one-way delay: 87.434 ms
Loss rate: 0.00%
```

Run 10: Report of LEDBAT — Data Link

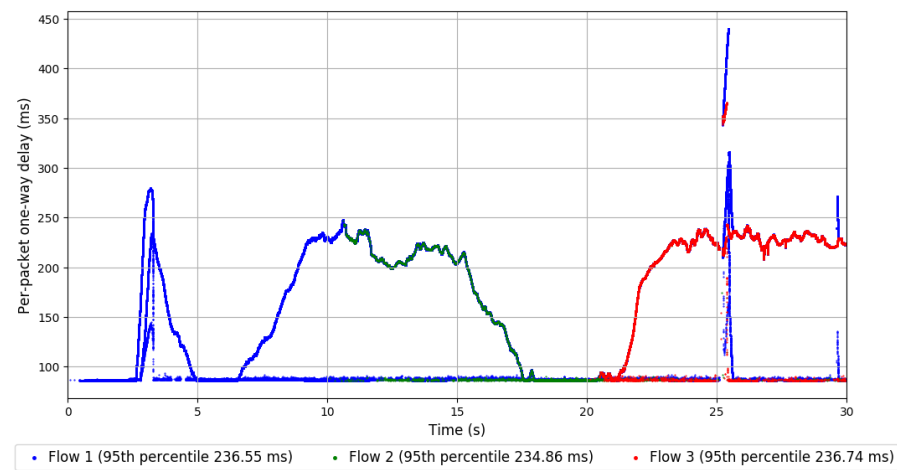
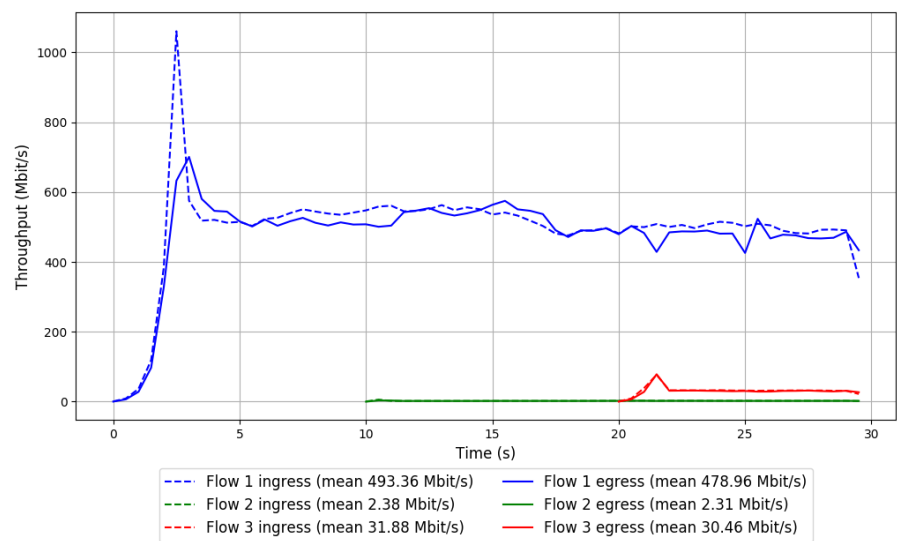


```
Run 1: Statistics of PCC

Start at: 2017-12-05 23:27:09
End at: 2017-12-05 23:27:39

# Below is generated by plot.py at 2017-12-06 02:54:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 490.52 Mbit/s
95th percentile per-packet one-way delay: 236.554 ms
Loss rate: 2.95%
-- Flow 1:
Average throughput: 478.96 Mbit/s
95th percentile per-packet one-way delay: 236.553 ms
Loss rate: 2.92%
-- Flow 2:
Average throughput: 2.31 Mbit/s
95th percentile per-packet one-way delay: 234.862 ms
Loss rate: 3.07%
-- Flow 3:
Average throughput: 30.46 Mbit/s
95th percentile per-packet one-way delay: 236.744 ms
Loss rate: 4.47%
```

Run 1: Report of PCC — Data Link

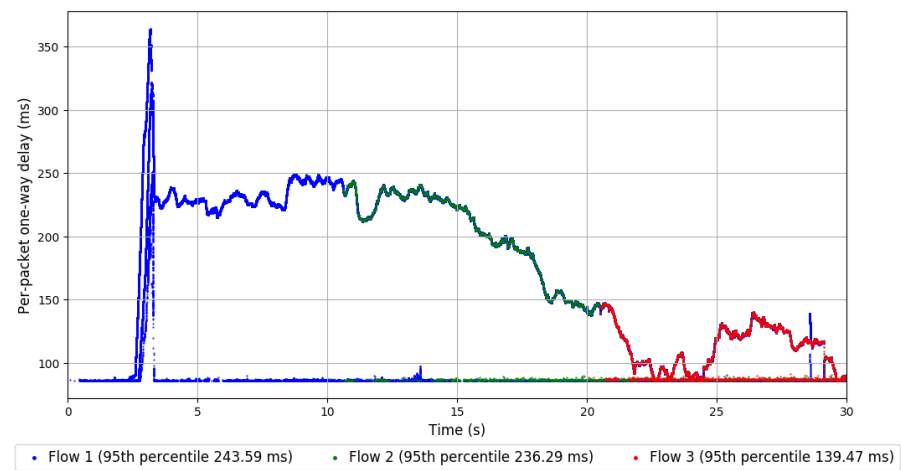
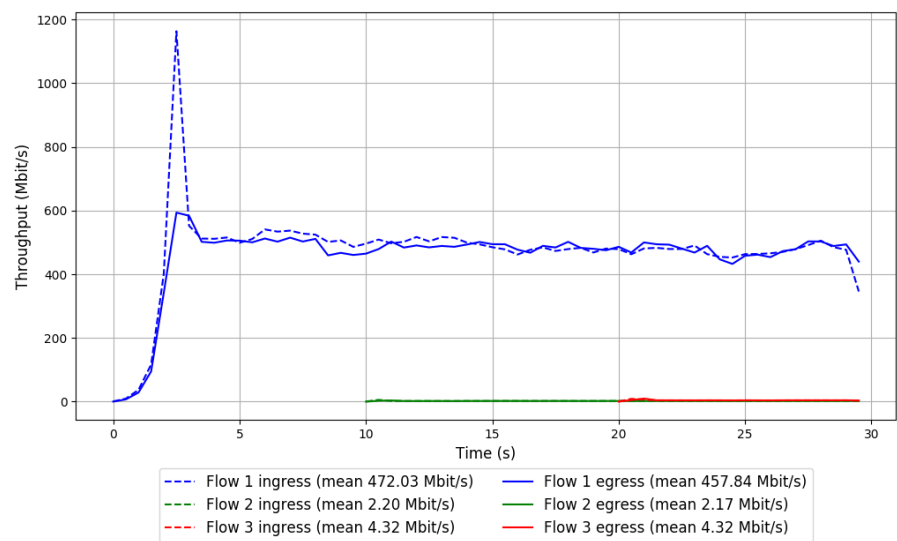


```
Run 2: Statistics of PCC

Start at: 2017-12-05 23:40:11
End at: 2017-12-05 23:40:41

# Below is generated by plot.py at 2017-12-06 02:54:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 460.64 Mbit/s
95th percentile per-packet one-way delay: 243.565 ms
Loss rate: 3.01%
-- Flow 1:
Average throughput: 457.84 Mbit/s
95th percentile per-packet one-way delay: 243.594 ms
Loss rate: 3.02%
-- Flow 2:
Average throughput: 2.17 Mbit/s
95th percentile per-packet one-way delay: 236.288 ms
Loss rate: 1.56%
-- Flow 3:
Average throughput: 4.32 Mbit/s
95th percentile per-packet one-way delay: 139.474 ms
Loss rate: 0.03%
```

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2017-12-05 23:53:17

End at: 2017-12-05 23:53:47

Below is generated by plot.py at 2017-12-06 02:54:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 491.82 Mbit/s

95th percentile per-packet one-way delay: 229.334 ms

Loss rate: 0.89%

-- Flow 1:

Average throughput: 467.81 Mbit/s

95th percentile per-packet one-way delay: 229.339 ms

Loss rate: 0.92%

-- Flow 2:

Average throughput: 34.07 Mbit/s

95th percentile per-packet one-way delay: 229.908 ms

Loss rate: 0.26%

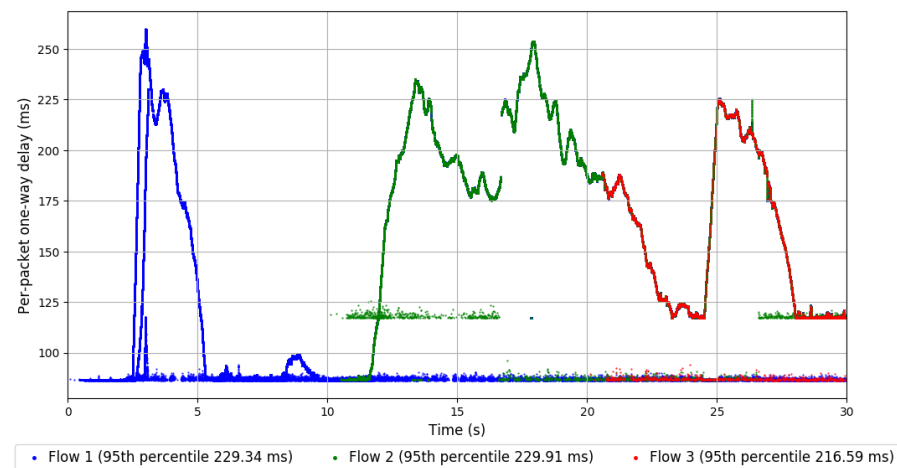
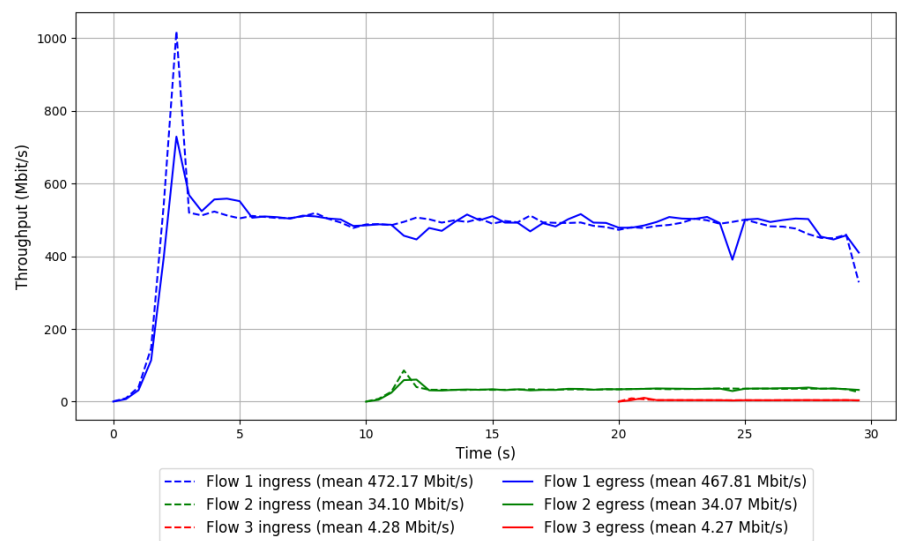
-- Flow 3:

Average throughput: 4.27 Mbit/s

95th percentile per-packet one-way delay: 216.588 ms

Loss rate: 0.29%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2017-12-06 00:05:45

End at: 2017-12-06 00:06:15

Below is generated by plot.py at 2017-12-06 02:54:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 300.79 Mbit/s

95th percentile per-packet one-way delay: 260.409 ms

Loss rate: 2.20%

-- Flow 1:

Average throughput: 4.52 Mbit/s

95th percentile per-packet one-way delay: 246.264 ms

Loss rate: 0.97%

-- Flow 2:

Average throughput: 443.23 Mbit/s

95th percentile per-packet one-way delay: 260.468 ms

Loss rate: 2.22%

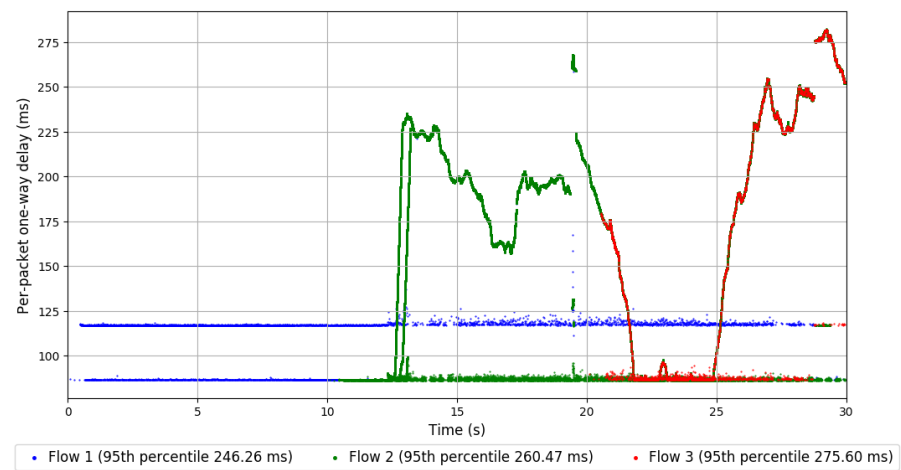
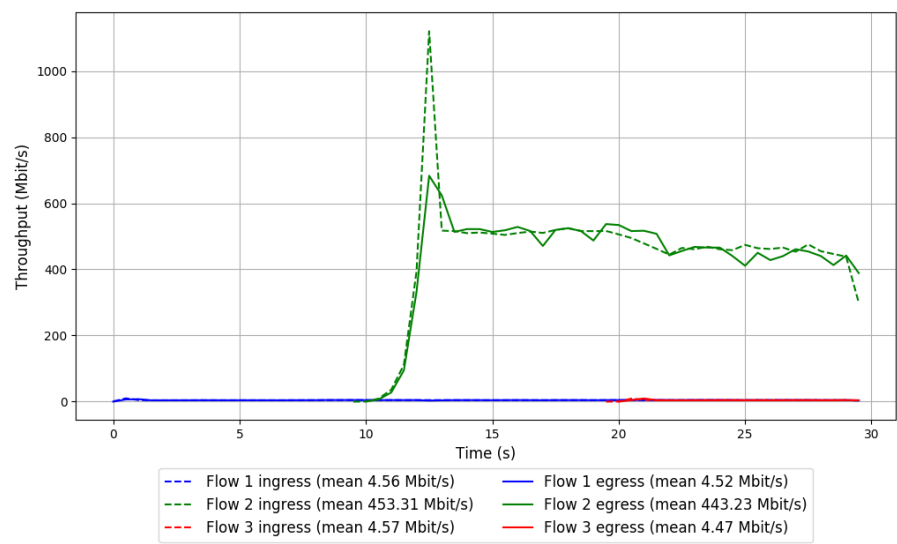
-- Flow 3:

Average throughput: 4.47 Mbit/s

95th percentile per-packet one-way delay: 275.598 ms

Loss rate: 2.32%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2017-12-06 00:18:21

End at: 2017-12-06 00:18:51

Below is generated by plot.py at 2017-12-06 02:54:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 480.35 Mbit/s

95th percentile per-packet one-way delay: 262.959 ms

Loss rate: 2.18%

-- Flow 1:

Average throughput: 468.41 Mbit/s

95th percentile per-packet one-way delay: 263.024 ms

Loss rate: 2.19%

-- Flow 2:

Average throughput: 2.17 Mbit/s

95th percentile per-packet one-way delay: 259.585 ms

Loss rate: 1.56%

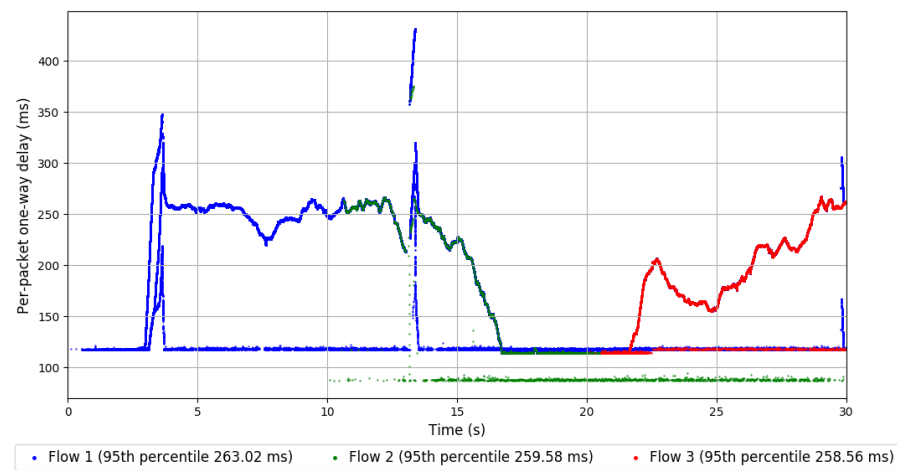
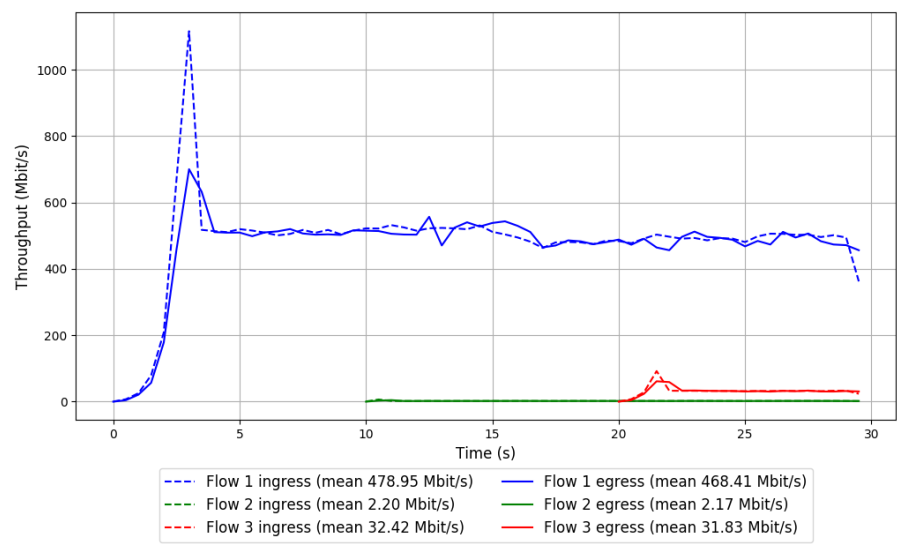
-- Flow 3:

Average throughput: 31.83 Mbit/s

95th percentile per-packet one-way delay: 258.561 ms

Loss rate: 1.79%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2017-12-06 00:31:10

End at: 2017-12-06 00:31:40

Below is generated by plot.py at 2017-12-06 02:54:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 428.88 Mbit/s

95th percentile per-packet one-way delay: 274.365 ms

Loss rate: 2.23%

-- Flow 1:

Average throughput: 373.49 Mbit/s

95th percentile per-packet one-way delay: 273.188 ms

Loss rate: 2.35%

-- Flow 2:

Average throughput: 67.57 Mbit/s

95th percentile per-packet one-way delay: 276.502 ms

Loss rate: 1.34%

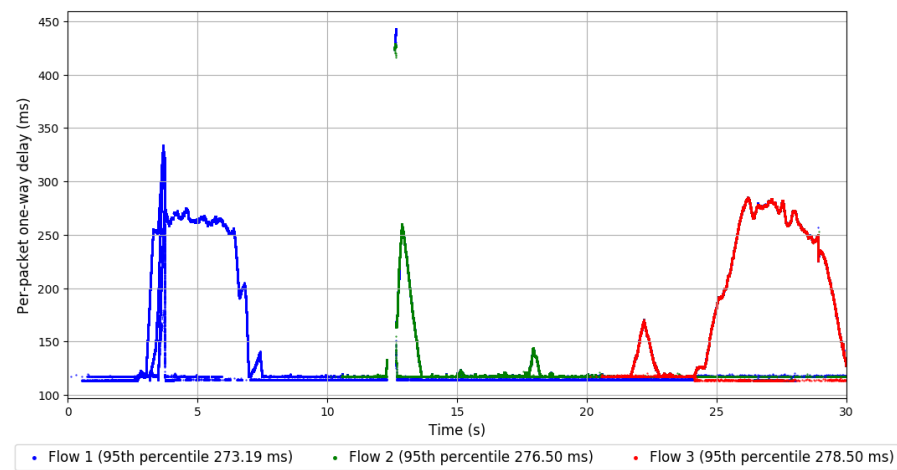
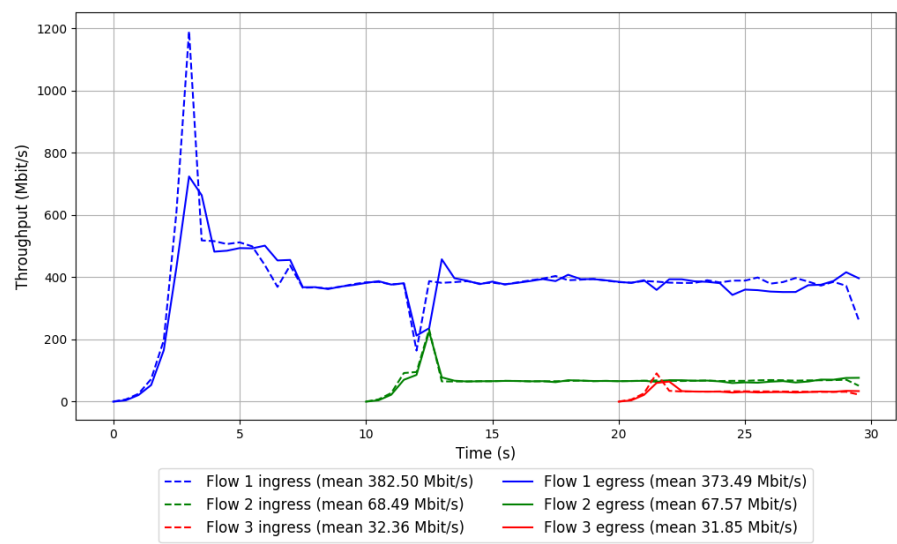
-- Flow 3:

Average throughput: 31.85 Mbit/s

95th percentile per-packet one-way delay: 278.505 ms

Loss rate: 1.58%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2017-12-06 00:43:46

End at: 2017-12-06 00:44:16

Below is generated by plot.py at 2017-12-06 02:55:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 477.71 Mbit/s

95th percentile per-packet one-way delay: 255.649 ms

Loss rate: 1.21%

-- Flow 1:

Average throughput: 473.49 Mbit/s

95th percentile per-packet one-way delay: 255.657 ms

Loss rate: 1.22%

-- Flow 2:

Average throughput: 4.15 Mbit/s

95th percentile per-packet one-way delay: 254.999 ms

Loss rate: 0.26%

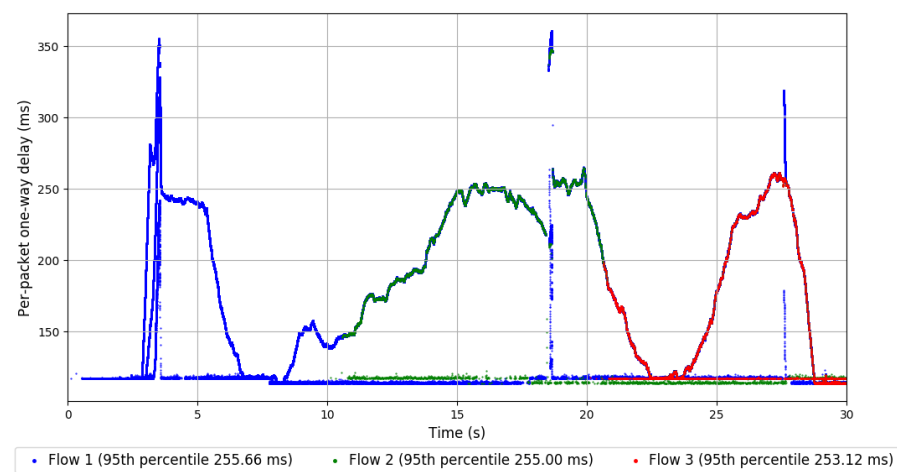
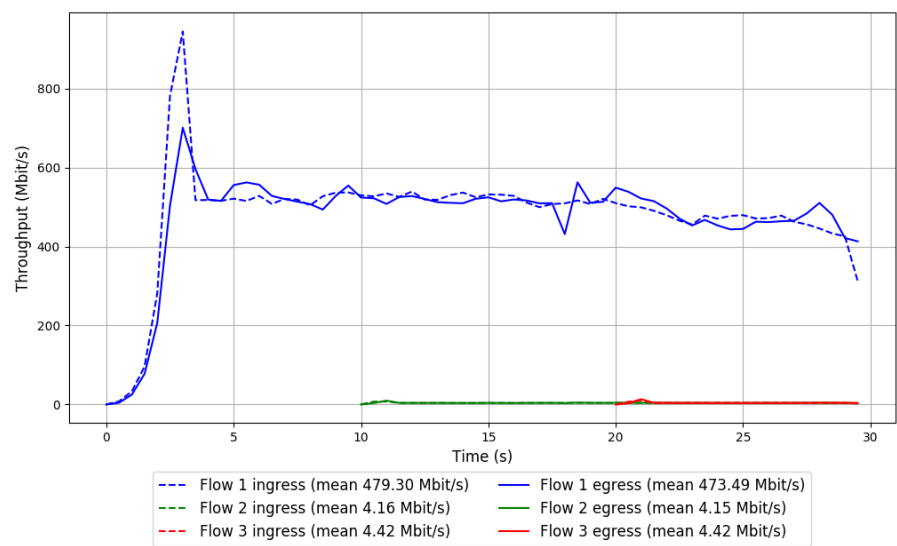
-- Flow 3:

Average throughput: 4.42 Mbit/s

95th percentile per-packet one-way delay: 253.115 ms

Loss rate: 0.00%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2017-12-06 00:56:33

End at: 2017-12-06 00:57:03

Below is generated by plot.py at 2017-12-06 02:55:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 489.31 Mbit/s

95th percentile per-packet one-way delay: 237.513 ms

Loss rate: 1.63%

-- Flow 1:

Average throughput: 467.31 Mbit/s

95th percentile per-packet one-way delay: 238.190 ms

Loss rate: 1.69%

-- Flow 2:

Average throughput: 2.18 Mbit/s

95th percentile per-packet one-way delay: 211.216 ms

Loss rate: 0.20%

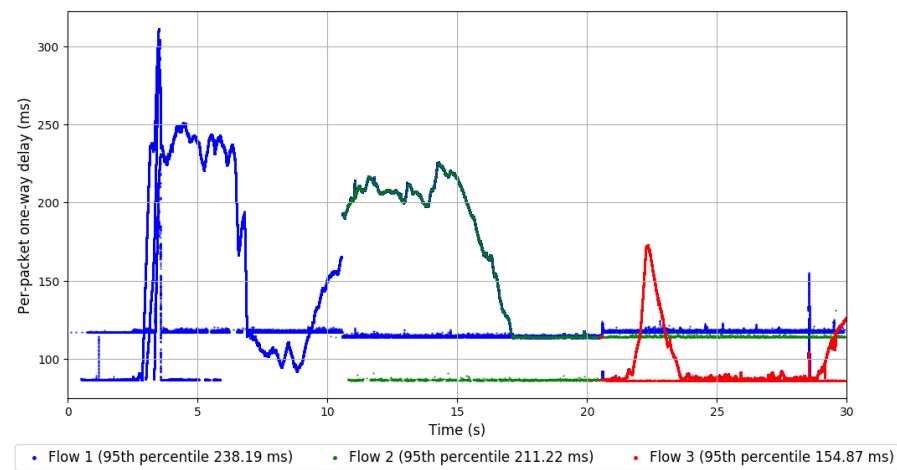
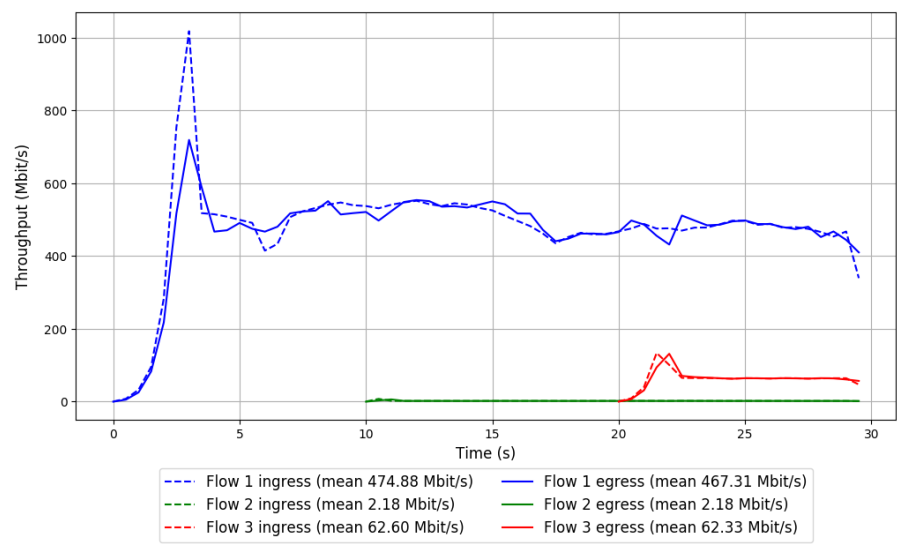
-- Flow 3:

Average throughput: 62.33 Mbit/s

95th percentile per-packet one-way delay: 154.869 ms

Loss rate: 0.41%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

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

End at: 2017-12-06 01:09:42

Below is generated by plot.py at 2017-12-06 03:00:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 477.42 Mbit/s

95th percentile per-packet one-way delay: 222.261 ms

Loss rate: 1.20%

-- Flow 1:

Average throughput: 445.30 Mbit/s

95th percentile per-packet one-way delay: 222.545 ms

Loss rate: 1.27%

-- Flow 2:

Average throughput: 32.69 Mbit/s

95th percentile per-packet one-way delay: 224.136 ms

Loss rate: 0.26%

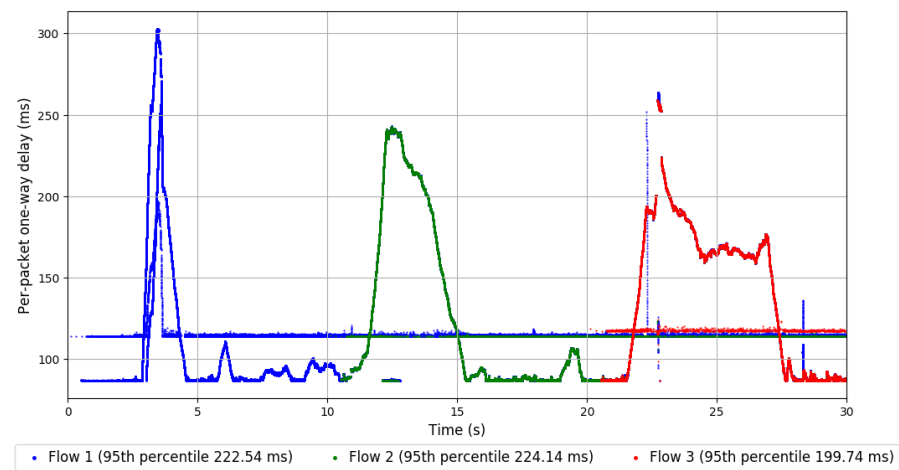
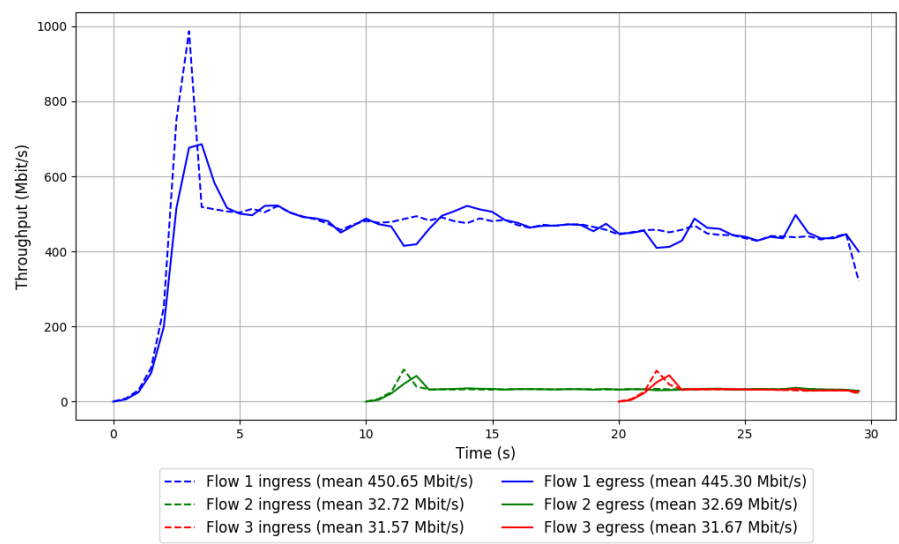
-- Flow 3:

Average throughput: 31.67 Mbit/s

95th percentile per-packet one-way delay: 199.740 ms

Loss rate: 0.02%

Run 9: Report of PCC — Data Link

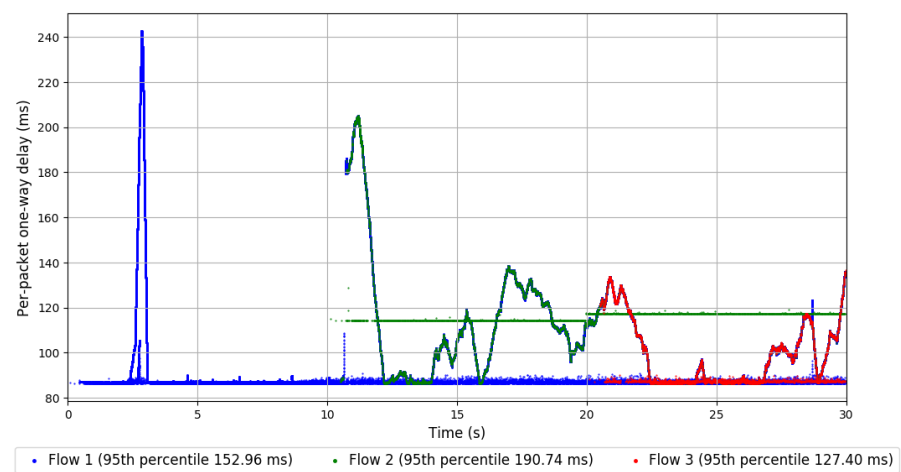
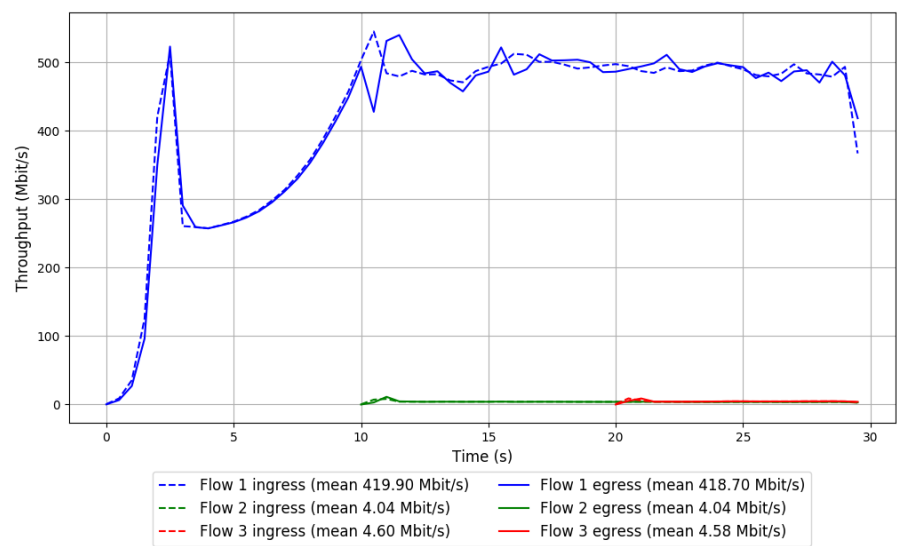


```
Run 10: Statistics of PCC

Start at: 2017-12-06 01:21:54
End at: 2017-12-06 01:22:24

# Below is generated by plot.py at 2017-12-06 03:01:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 422.86 Mbit/s
95th percentile per-packet one-way delay: 152.917 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 418.70 Mbit/s
95th percentile per-packet one-way delay: 152.964 ms
Loss rate: 0.30%
-- Flow 2:
Average throughput: 4.04 Mbit/s
95th percentile per-packet one-way delay: 190.744 ms
Loss rate: 0.23%
-- Flow 3:
Average throughput: 4.58 Mbit/s
95th percentile per-packet one-way delay: 127.396 ms
Loss rate: 0.45%
```

Run 10: Report of PCC — Data Link

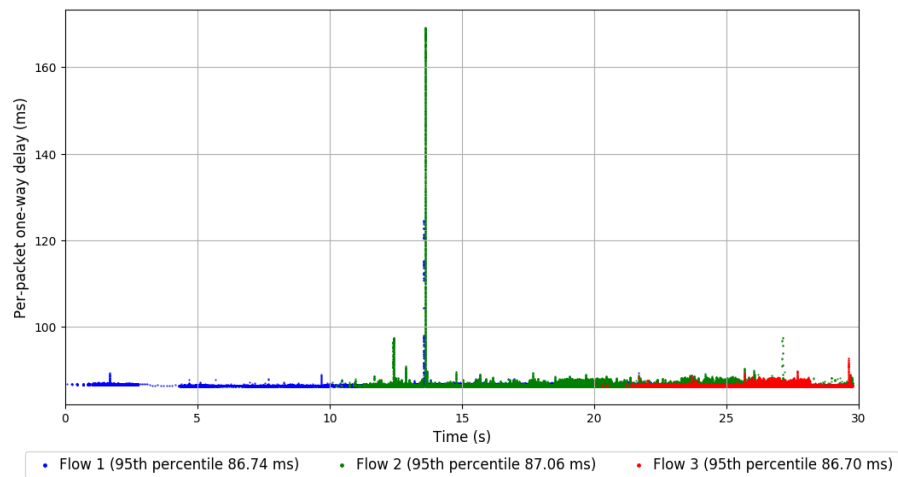
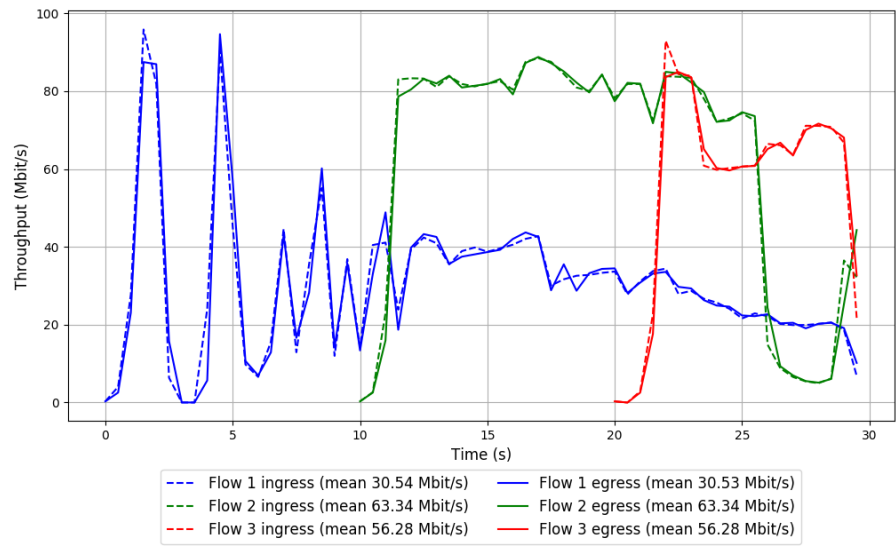


```
Run 1: Statistics of QUIC Cubic

Start at: 2017-12-05 23:30:51
End at: 2017-12-05 23:31:21

# Below is generated by plot.py at 2017-12-06 03:01:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.85 Mbit/s
95th percentile per-packet one-way delay: 86.804 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 30.53 Mbit/s
95th percentile per-packet one-way delay: 86.740 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 63.34 Mbit/s
95th percentile per-packet one-way delay: 87.065 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 56.28 Mbit/s
95th percentile per-packet one-way delay: 86.699 ms
Loss rate: 0.00%
```


Run 1: Report of QUIC Cubic — Data Link

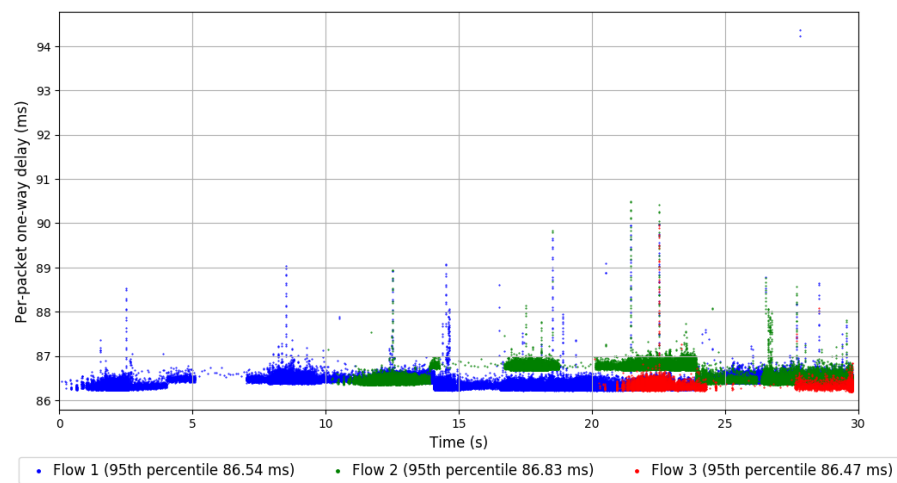
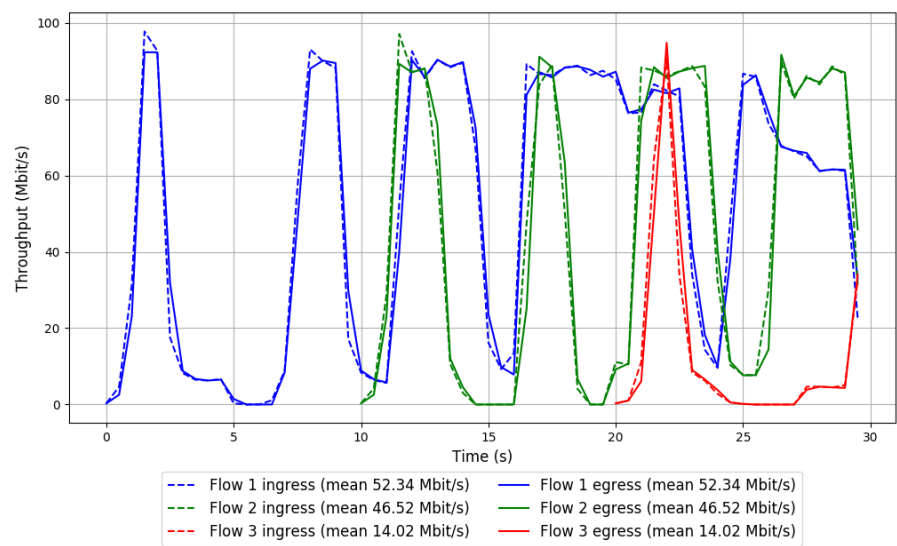


```
Run 2: Statistics of QUIC Cubic

Start at: 2017-12-05 23:44:00
End at: 2017-12-05 23:44:30

# Below is generated by plot.py at 2017-12-06 03:01:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.75 Mbit/s
95th percentile per-packet one-way delay: 86.783 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 52.34 Mbit/s
95th percentile per-packet one-way delay: 86.543 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 46.52 Mbit/s
95th percentile per-packet one-way delay: 86.835 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 14.02 Mbit/s
95th percentile per-packet one-way delay: 86.469 ms
Loss rate: 0.00%
```

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2017-12-05 23:56:59

End at: 2017-12-05 23:57:29

Below is generated by plot.py at 2017-12-06 03:01:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 103.81 Mbit/s

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

Loss rate: 0.01%

-- Flow 1:

Average throughput: 52.55 Mbit/s

95th percentile per-packet one-way delay: 117.297 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 60.76 Mbit/s

95th percentile per-packet one-way delay: 86.581 ms

Loss rate: 0.00%

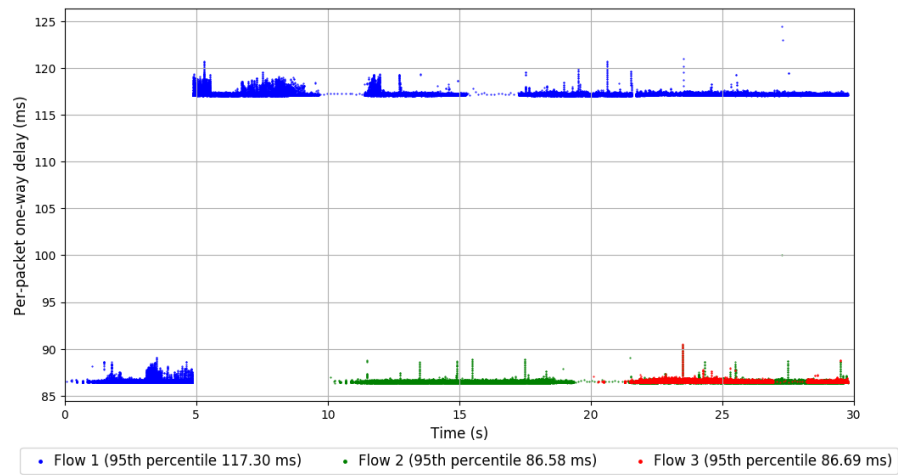
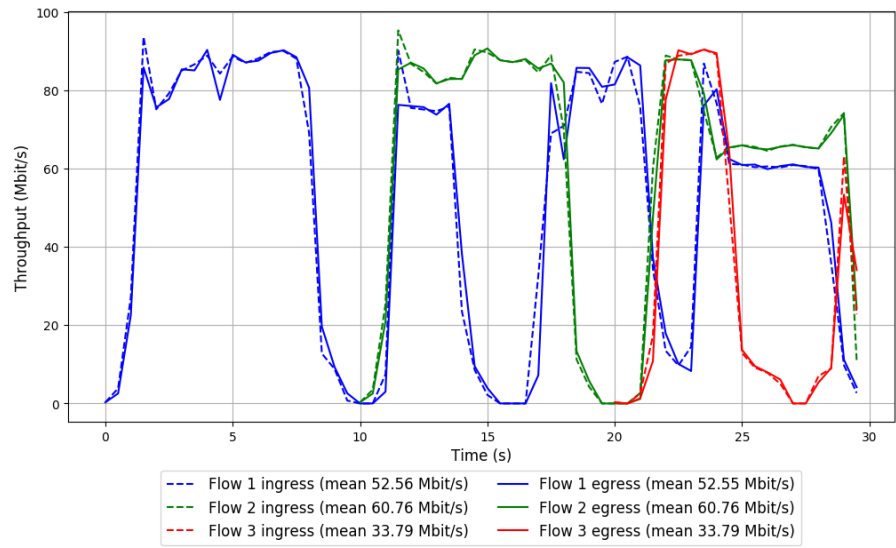
-- Flow 3:

Average throughput: 33.79 Mbit/s

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

Loss rate: 0.00%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2017-12-06 00:09:21

End at: 2017-12-06 00:09:51

Below is generated by plot.py at 2017-12-06 03:01:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.33 Mbit/s

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

Loss rate: 0.11%

-- Flow 1:

Average throughput: 58.33 Mbit/s

95th percentile per-packet one-way delay: 86.565 ms

Loss rate: 0.15%

-- Flow 2:

Average throughput: 47.20 Mbit/s

95th percentile per-packet one-way delay: 117.368 ms

Loss rate: 0.06%

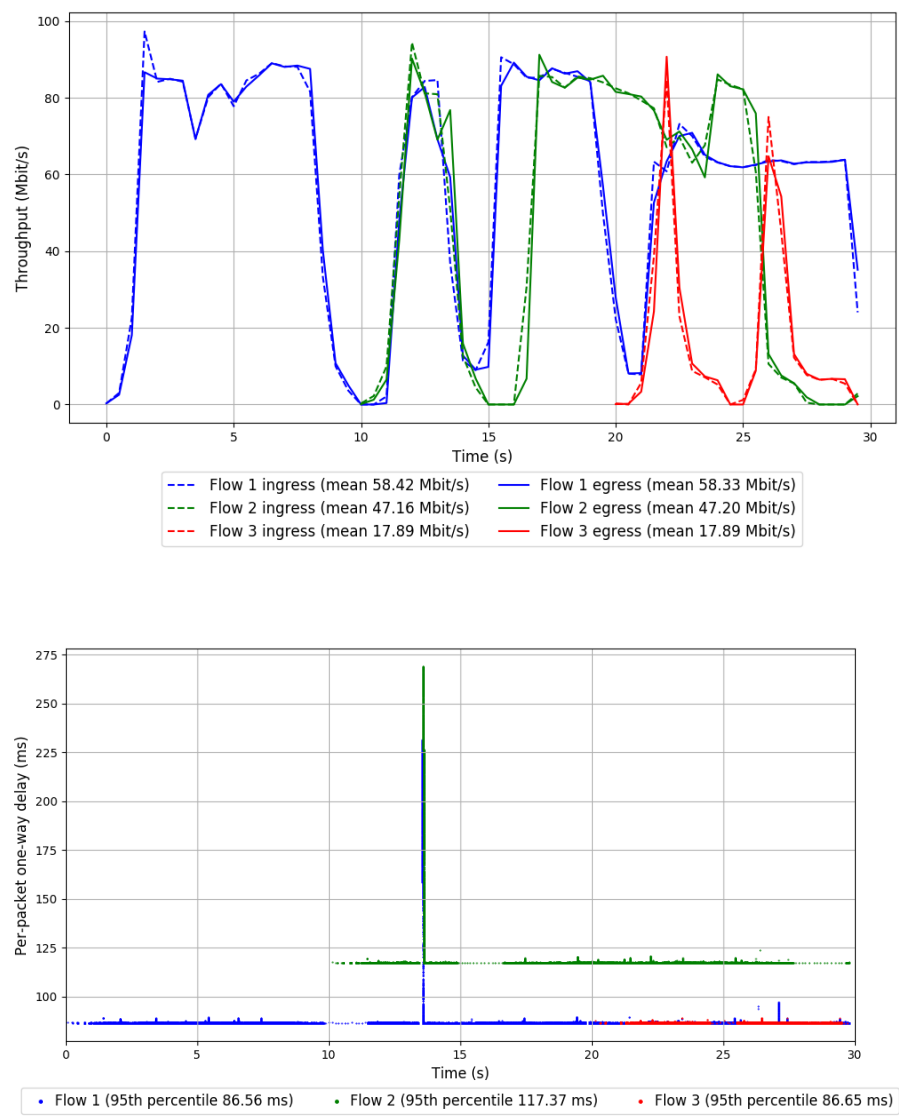
-- Flow 3:

Average throughput: 17.89 Mbit/s

95th percentile per-packet one-way delay: 86.654 ms

Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2017-12-06 00:22:09

End at: 2017-12-06 00:22:39

Below is generated by plot.py at 2017-12-06 03:01:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 114.22 Mbit/s

95th percentile per-packet one-way delay: 117.300 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 75.01 Mbit/s

95th percentile per-packet one-way delay: 117.330 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 52.93 Mbit/s

95th percentile per-packet one-way delay: 86.953 ms

Loss rate: 0.00%

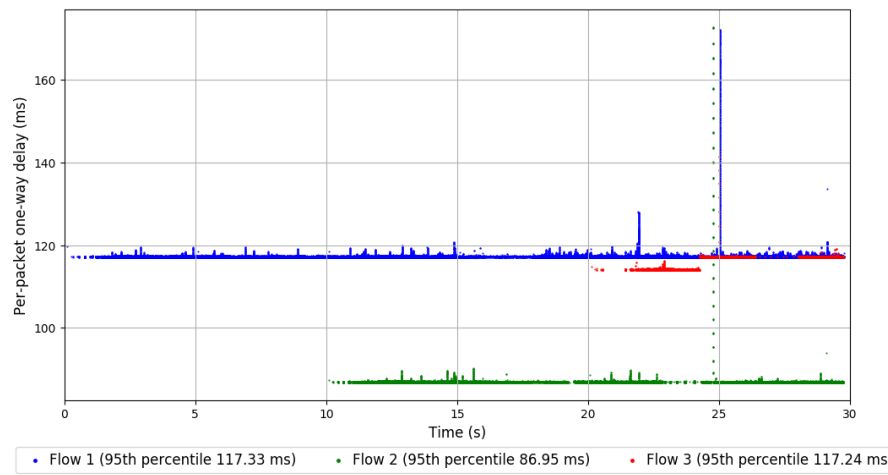
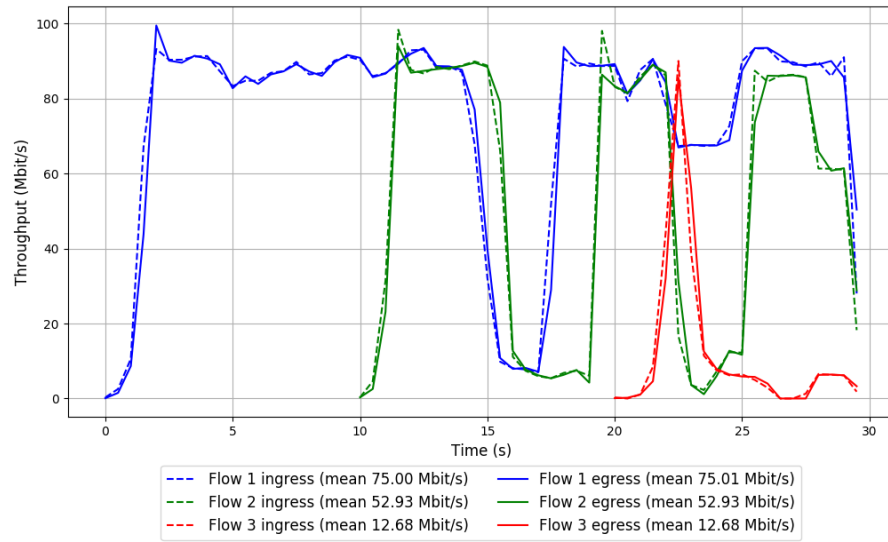
-- Flow 3:

Average throughput: 12.68 Mbit/s

95th percentile per-packet one-way delay: 117.240 ms

Loss rate: 0.00%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2017-12-06 00:35:00

End at: 2017-12-06 00:35:30

Below is generated by plot.py at 2017-12-06 03:01:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.14 Mbit/s

95th percentile per-packet one-way delay: 86.642 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 61.97 Mbit/s

95th percentile per-packet one-way delay: 86.572 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 36.44 Mbit/s

95th percentile per-packet one-way delay: 86.635 ms

Loss rate: 0.00%

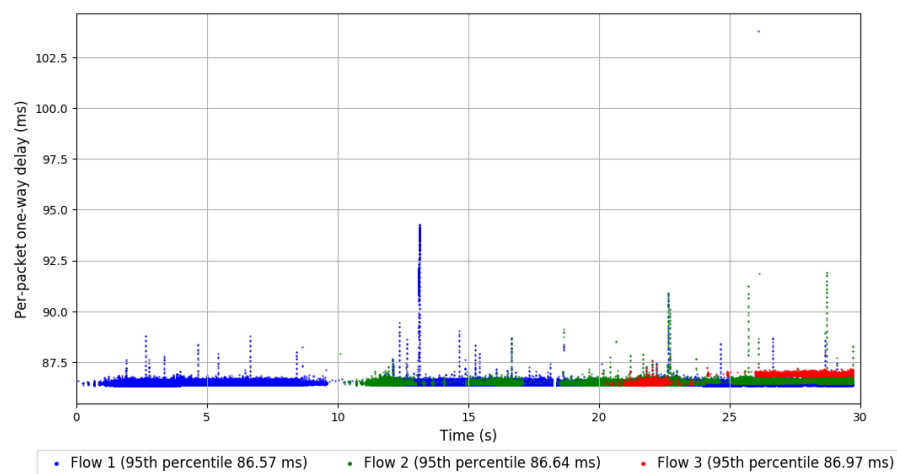
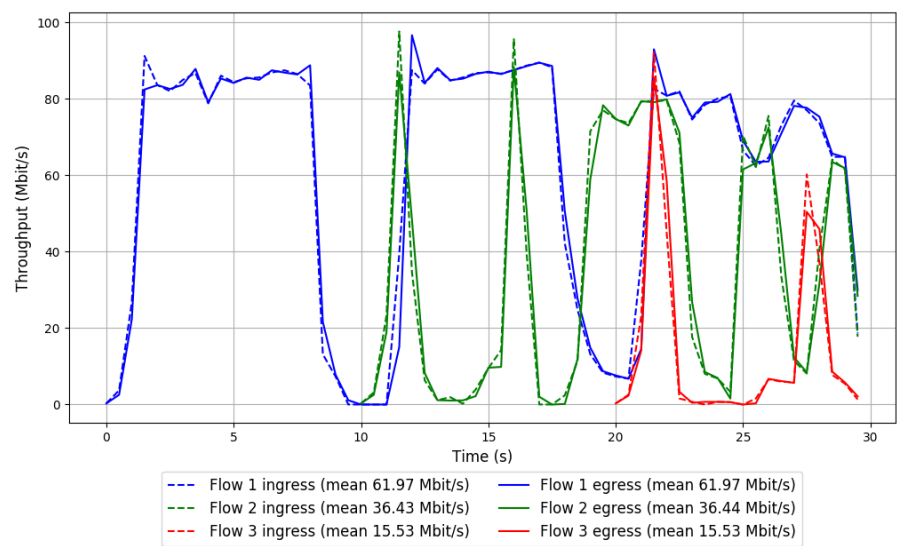
-- Flow 3:

Average throughput: 15.53 Mbit/s

95th percentile per-packet one-way delay: 86.965 ms

Loss rate: 0.00%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2017-12-06 00:47:41

End at: 2017-12-06 00:48:11

Below is generated by plot.py at 2017-12-06 03:01:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 107.32 Mbit/s

95th percentile per-packet one-way delay: 117.298 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 54.37 Mbit/s

95th percentile per-packet one-way delay: 114.102 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 60.26 Mbit/s

95th percentile per-packet one-way delay: 117.327 ms

Loss rate: 0.00%

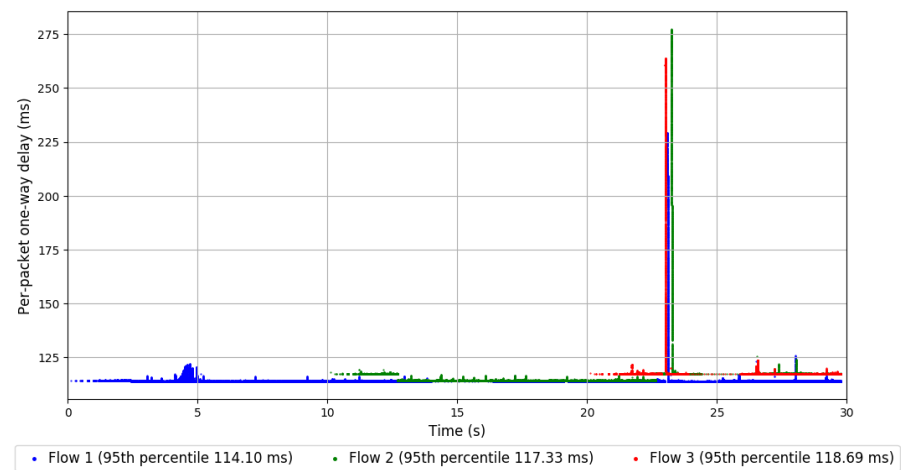
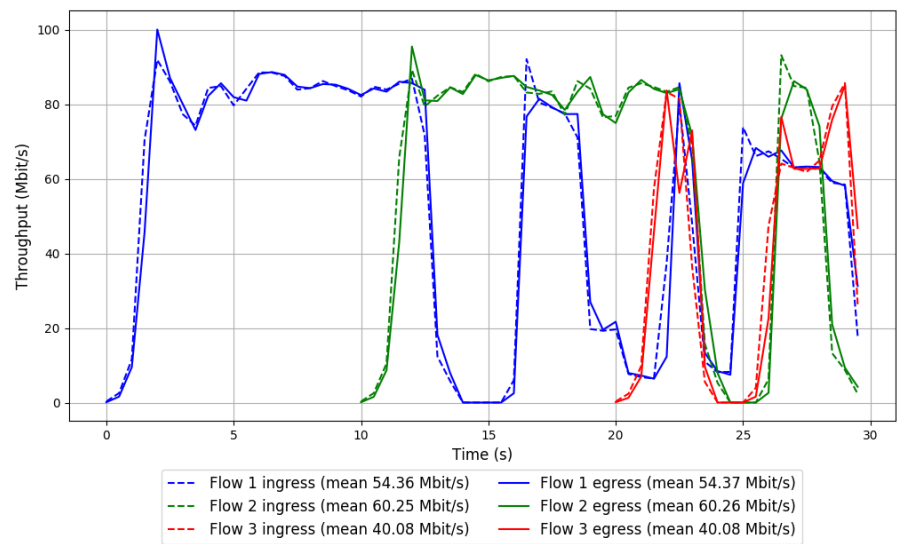
-- Flow 3:

Average throughput: 40.08 Mbit/s

95th percentile per-packet one-way delay: 118.690 ms

Loss rate: 0.01%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2017-12-06 01:00:18

End at: 2017-12-06 01:00:48

Below is generated by plot.py at 2017-12-06 03:01:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 107.00 Mbit/s

95th percentile per-packet one-way delay: 114.317 ms

Loss rate: 0.18%

-- Flow 1:

Average throughput: 54.55 Mbit/s

95th percentile per-packet one-way delay: 114.018 ms

Loss rate: 0.14%

-- Flow 2:

Average throughput: 47.29 Mbit/s

95th percentile per-packet one-way delay: 114.409 ms

Loss rate: 0.18%

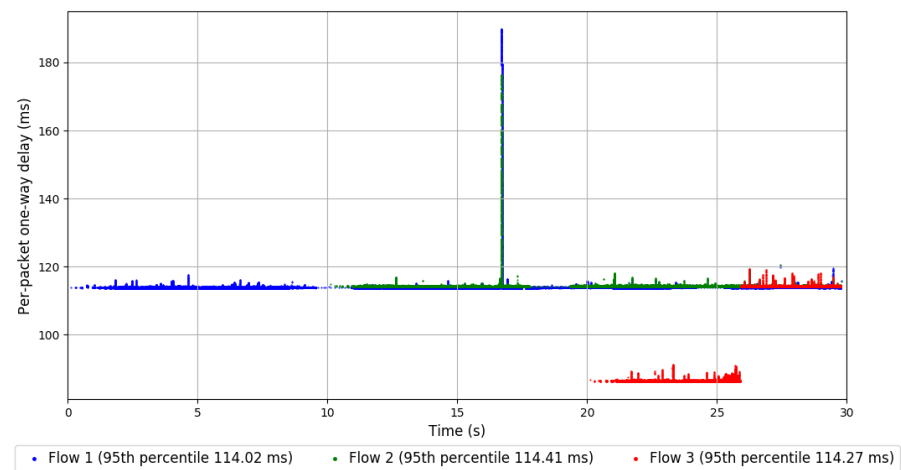
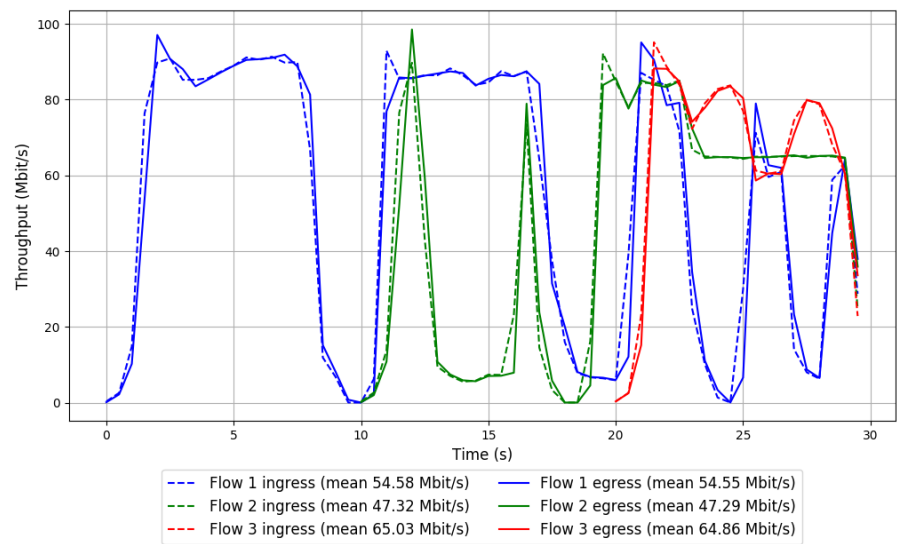
-- Flow 3:

Average throughput: 64.86 Mbit/s

95th percentile per-packet one-way delay: 114.265 ms

Loss rate: 0.25%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2017-12-06 01:12:54

End at: 2017-12-06 01:13:24

Below is generated by plot.py at 2017-12-06 03:01:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.68 Mbit/s

95th percentile per-packet one-way delay: 117.378 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 62.03 Mbit/s

95th percentile per-packet one-way delay: 117.490 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 38.18 Mbit/s

95th percentile per-packet one-way delay: 86.530 ms

Loss rate: 0.00%

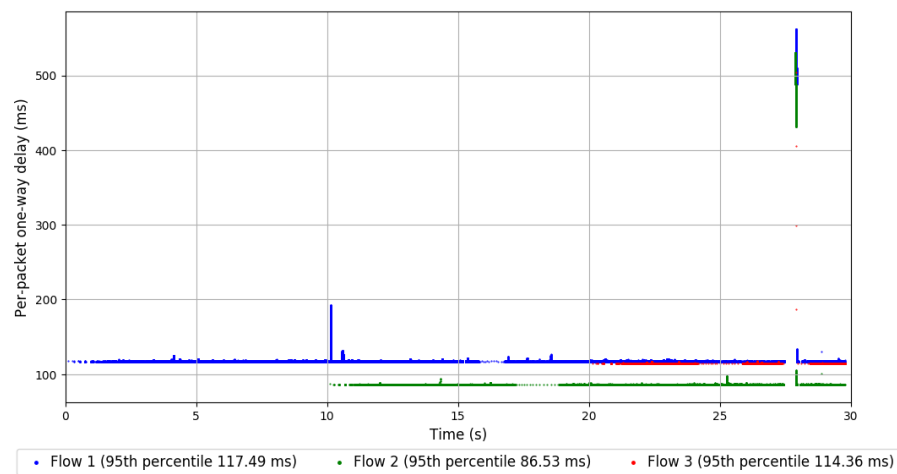
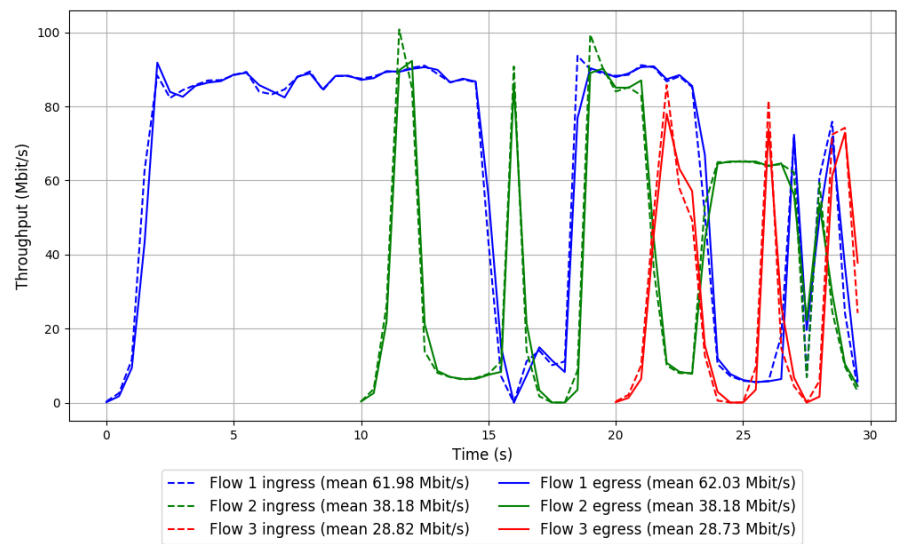
-- Flow 3:

Average throughput: 28.73 Mbit/s

95th percentile per-packet one-way delay: 114.364 ms

Loss rate: 0.57%

Run 9: Report of QUIC Cubic — Data Link

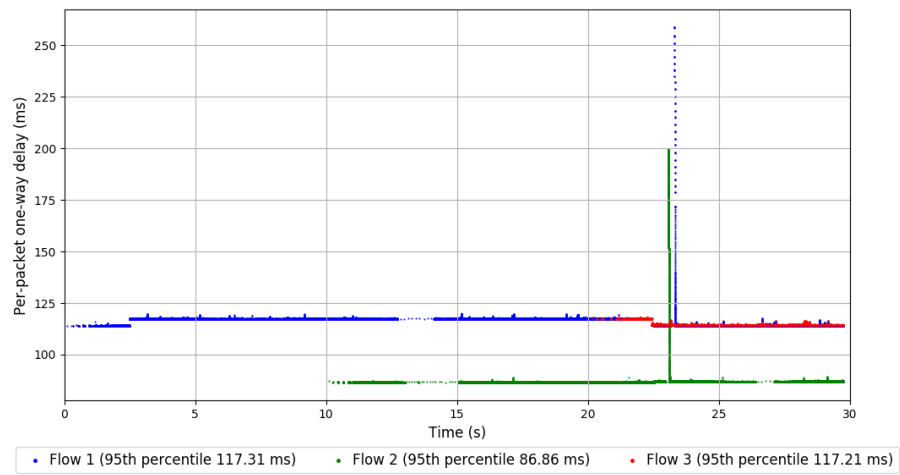
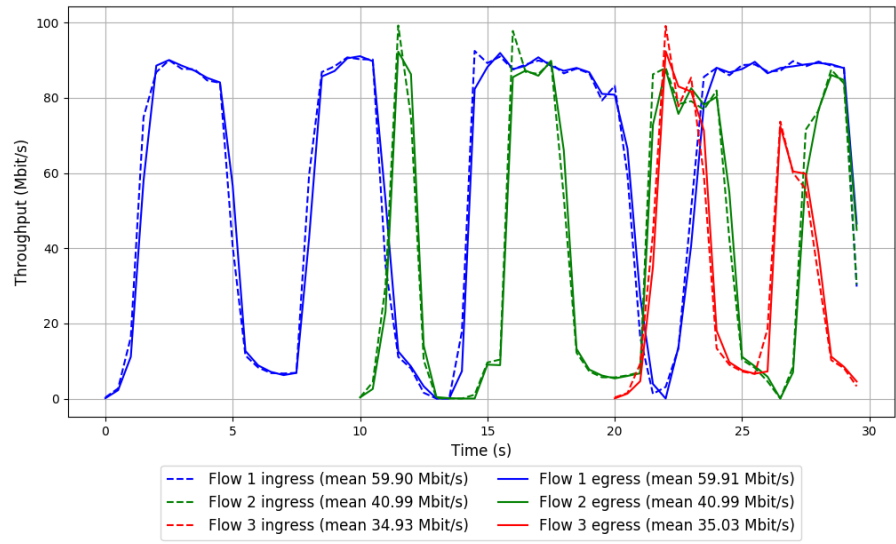


```
Run 10: Statistics of QUIC Cubic

Start at: 2017-12-06 01:25:41
End at: 2017-12-06 01:26:11

# Below is generated by plot.py at 2017-12-06 03:01:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 98.47 Mbit/s
95th percentile per-packet one-way delay: 117.276 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 59.91 Mbit/s
95th percentile per-packet one-way delay: 117.306 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 40.99 Mbit/s
95th percentile per-packet one-way delay: 86.860 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 35.03 Mbit/s
95th percentile per-packet one-way delay: 117.214 ms
Loss rate: 0.07%
```

Run 10: Report of QUIC Cubic — Data Link

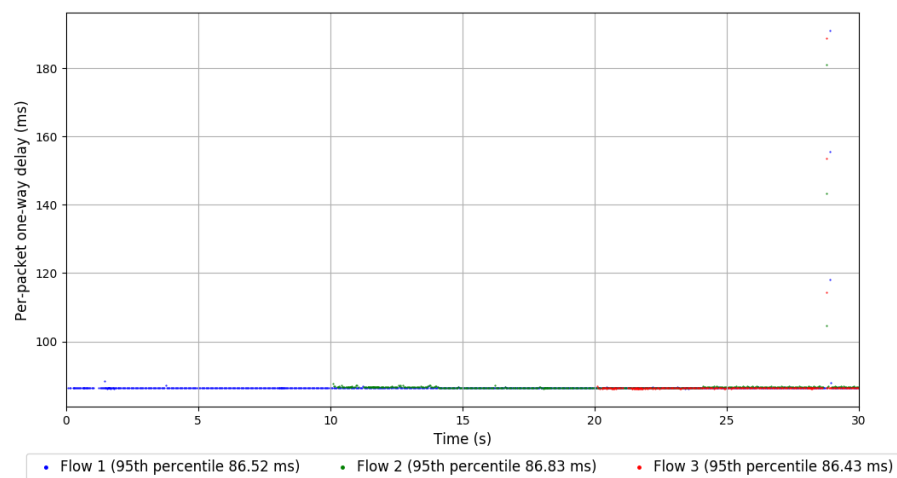
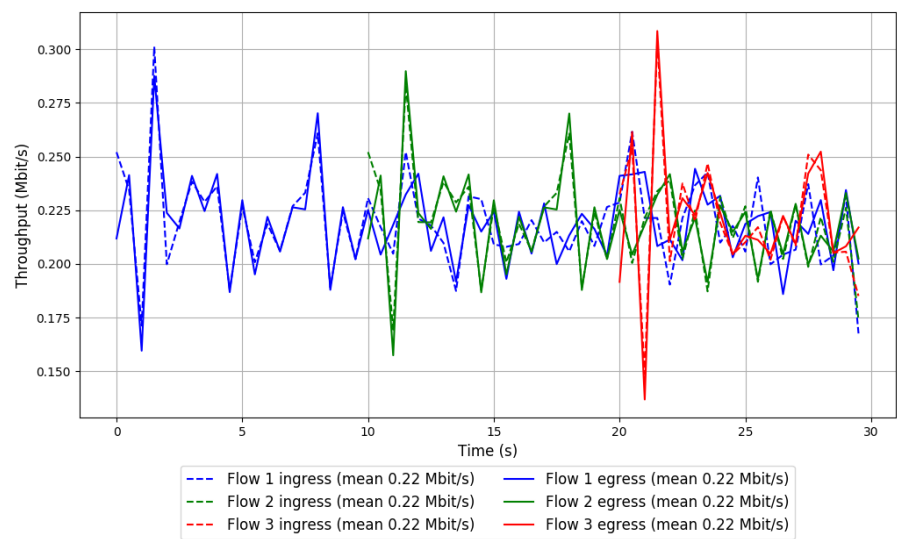


```
Run 1: Statistics of SCReAM

Start at: 2017-12-05 23:32:36
End at: 2017-12-05 23:33:06

# Below is generated by plot.py at 2017-12-06 03:01:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 86.796 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.517 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.827 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.433 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

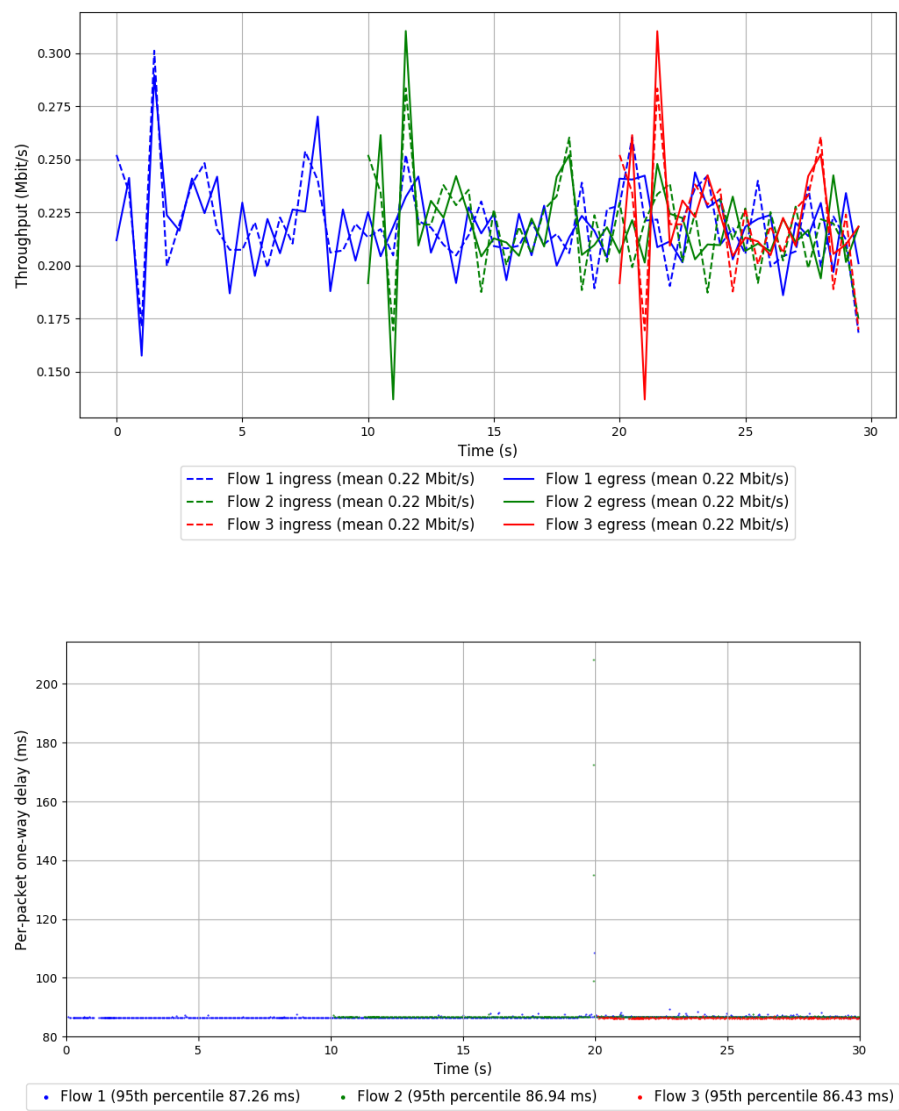


```
Run 2: Statistics of SReAM

Start at: 2017-12-05 23:45:45
End at: 2017-12-05 23:46:15

# Below is generated by plot.py at 2017-12-06 03:01:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 86.990 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 87.260 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.938 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.432 ms
Loss rate: 0.00%
```

Run 2: Report of SReAM — Data Link

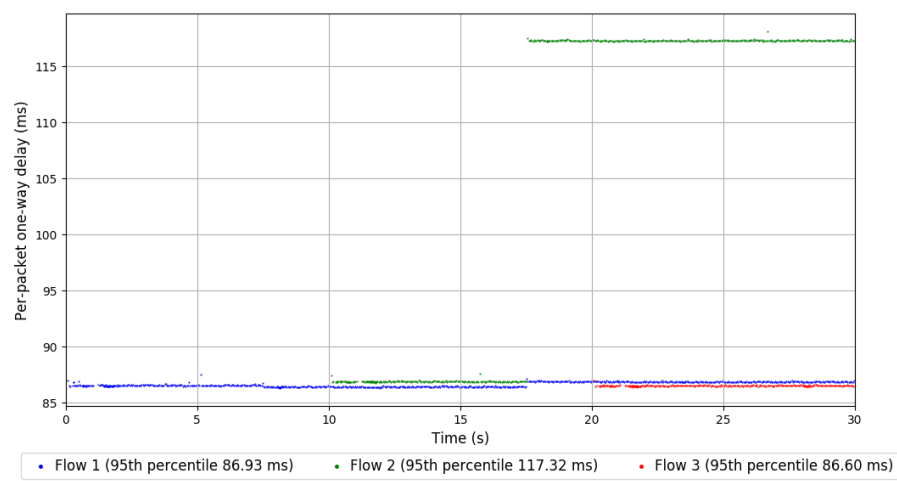
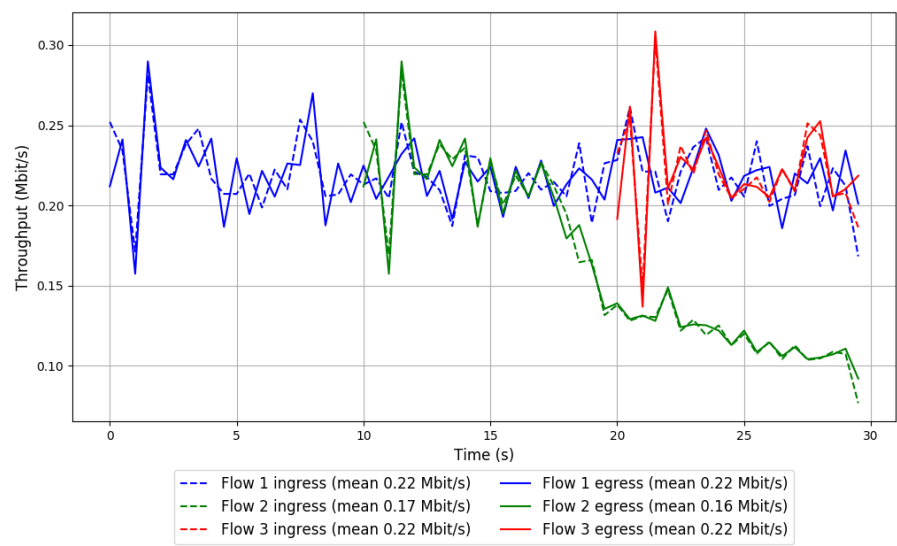


```
Run 3: Statistics of SCReAM

Start at: 2017-12-05 23:58:46
End at: 2017-12-05 23:59:16

# Below is generated by plot.py at 2017-12-06 03:01:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.40 Mbit/s
95th percentile per-packet one-way delay: 117.281 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.931 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 117.318 ms
Loss rate: 0.12%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.598 ms
Loss rate: 0.00%
```


Run 3: Report of SReAM — Data Link

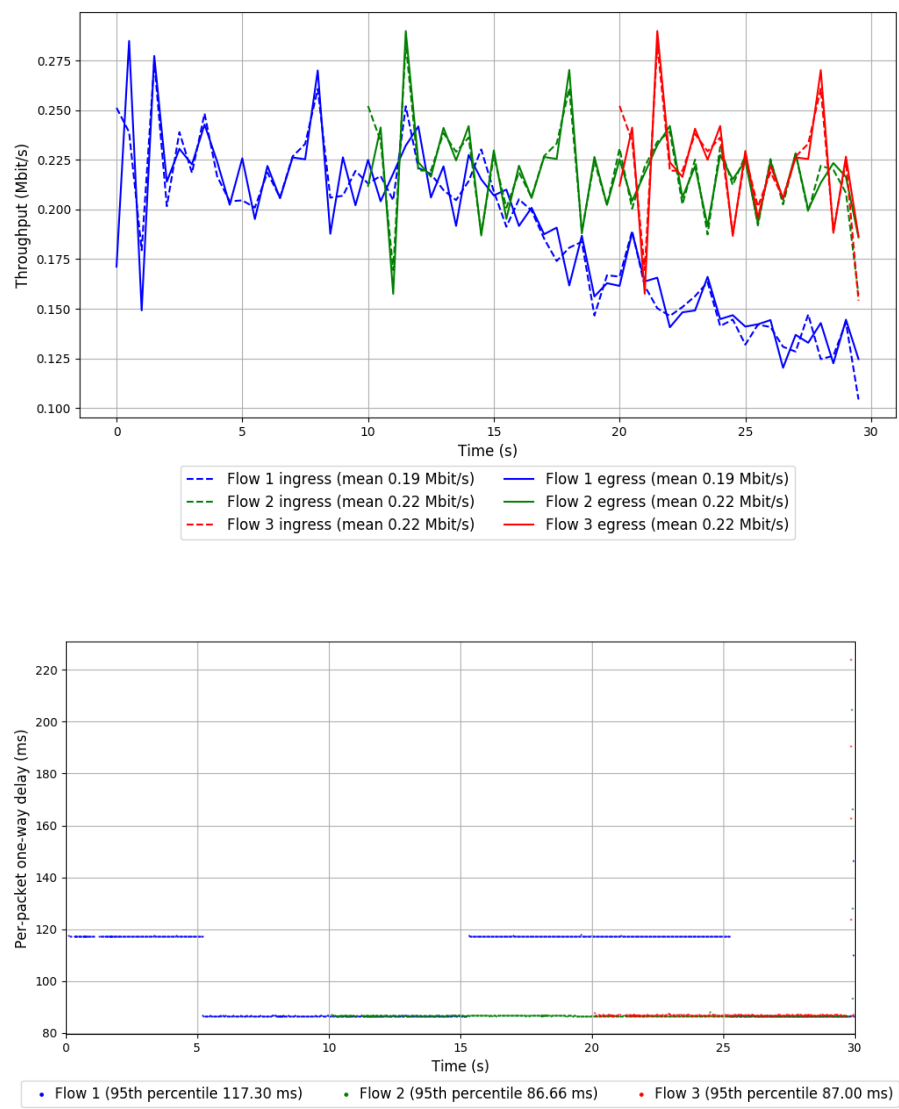


```
Run 4: Statistics of SCReAM

Start at: 2017-12-06 00:11:04
End at: 2017-12-06 00:11:34

# Below is generated by plot.py at 2017-12-06 03:01:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.41 Mbit/s
95th percentile per-packet one-way delay: 117.284 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 117.301 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.662 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 87.004 ms
Loss rate: 0.00%
```

Run 4: Report of SReAM — Data Link

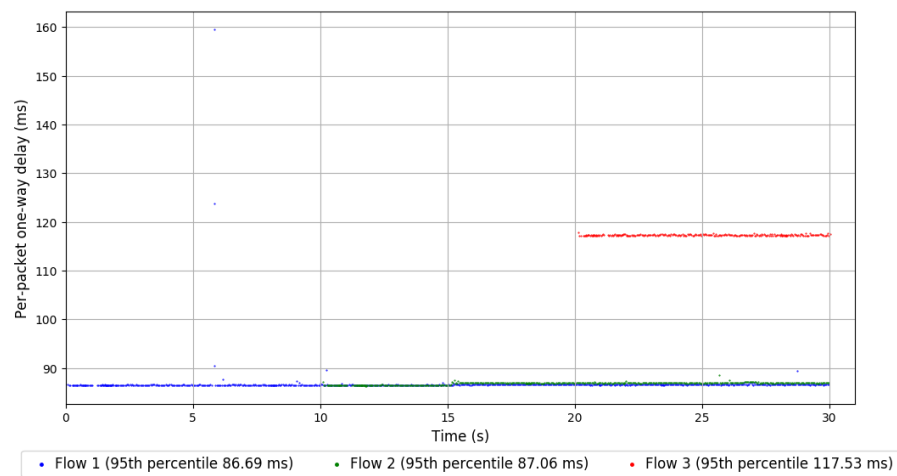
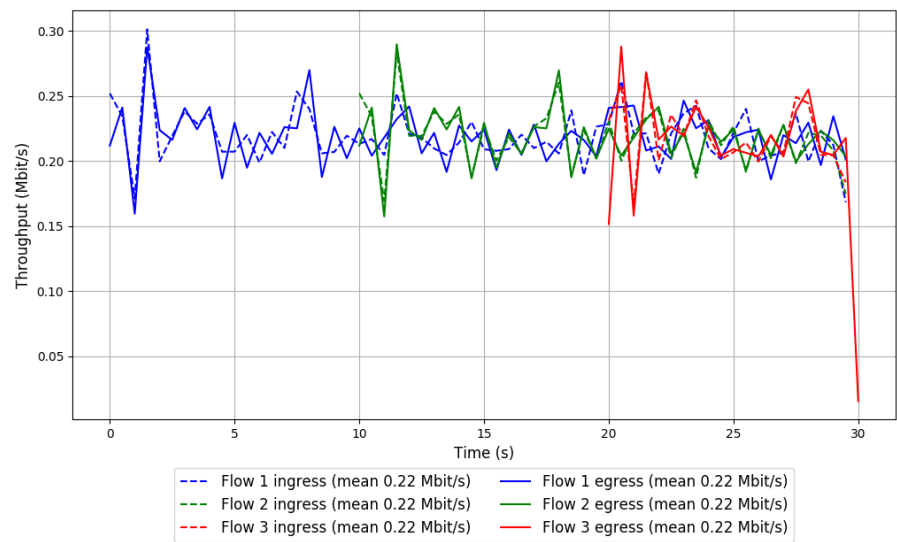


```
Run 5: Statistics of SCReAM

Start at: 2017-12-06 00:23:59
End at: 2017-12-06 00:24:29

# Below is generated by plot.py at 2017-12-06 03:01:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 117.300 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.686 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 87.058 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 117.530 ms
Loss rate: 0.00%
```

Run 5: Report of SReAM — Data Link

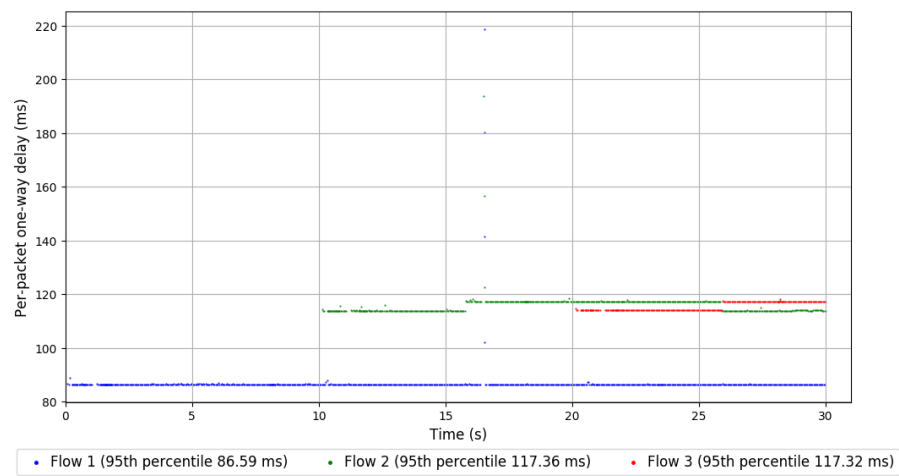
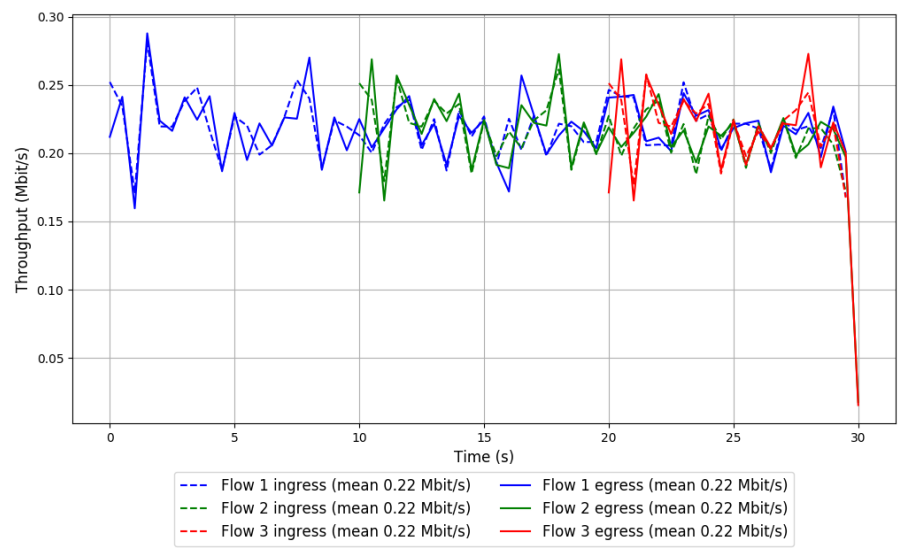


```
Run 6: Statistics of SCReAM

Start at: 2017-12-06 00:36:48
End at: 2017-12-06 00:37:18

# Below is generated by plot.py at 2017-12-06 03:01:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 117.333 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.593 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 117.364 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 117.323 ms
Loss rate: 0.00%
```

Run 6: Report of SCReAM — Data Link

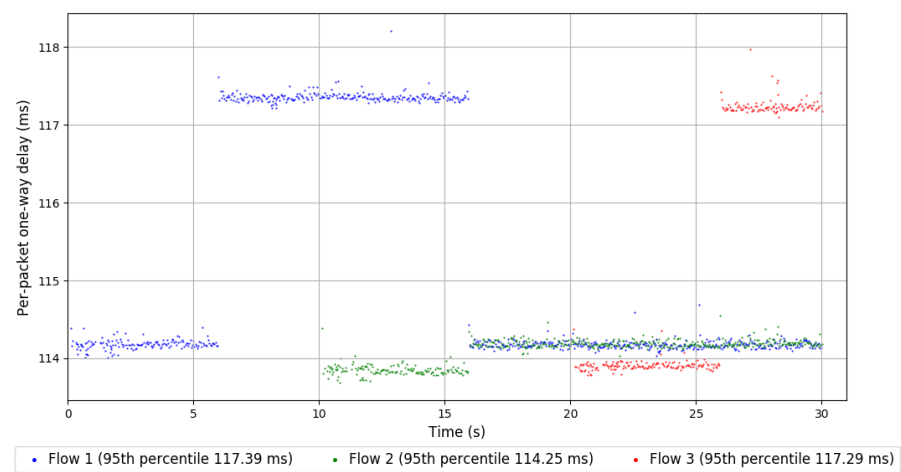
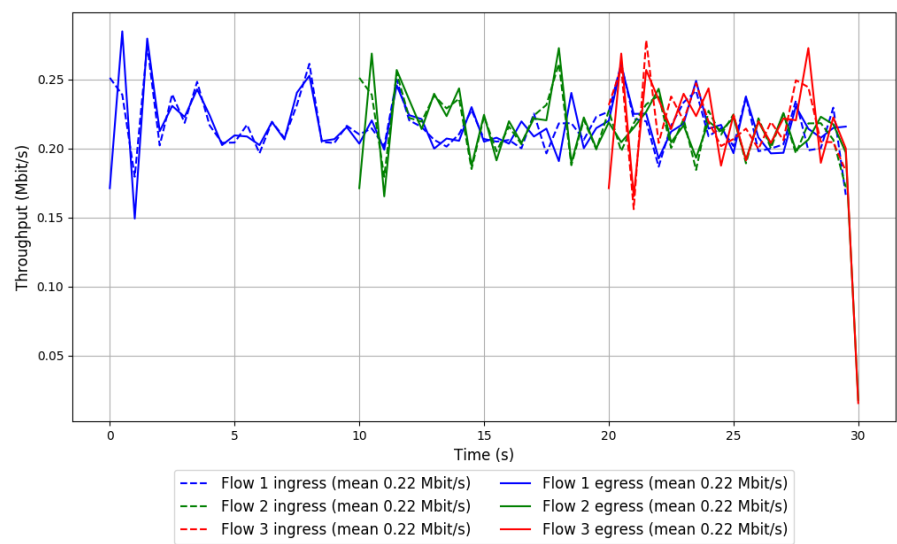


```
Run 7: Statistics of SCReAM

Start at: 2017-12-06 00:49:28
End at: 2017-12-06 00:49:58

# Below is generated by plot.py at 2017-12-06 03:01:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 117.373 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 117.394 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 114.254 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 117.291 ms
Loss rate: 0.00%
```


Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2017-12-06 01:02:05

End at: 2017-12-06 01:02:35

Below is generated by plot.py at 2017-12-06 03:01:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 117.318 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 113.939 ms

Loss rate: 0.00%

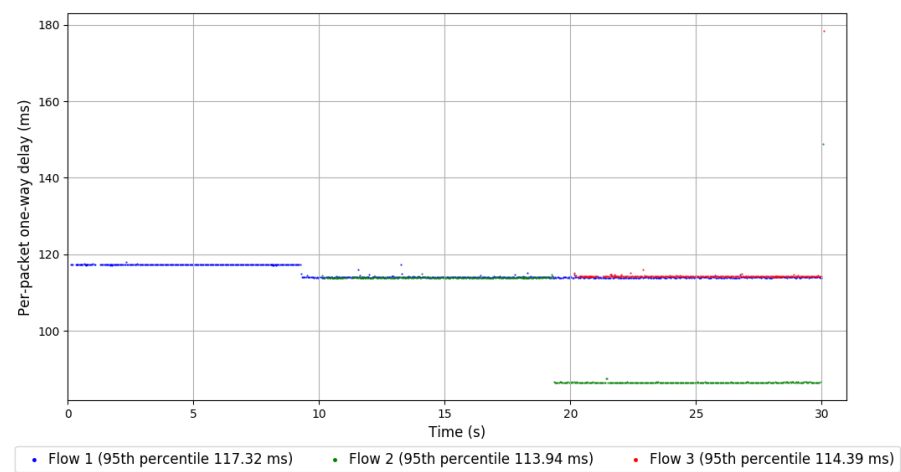
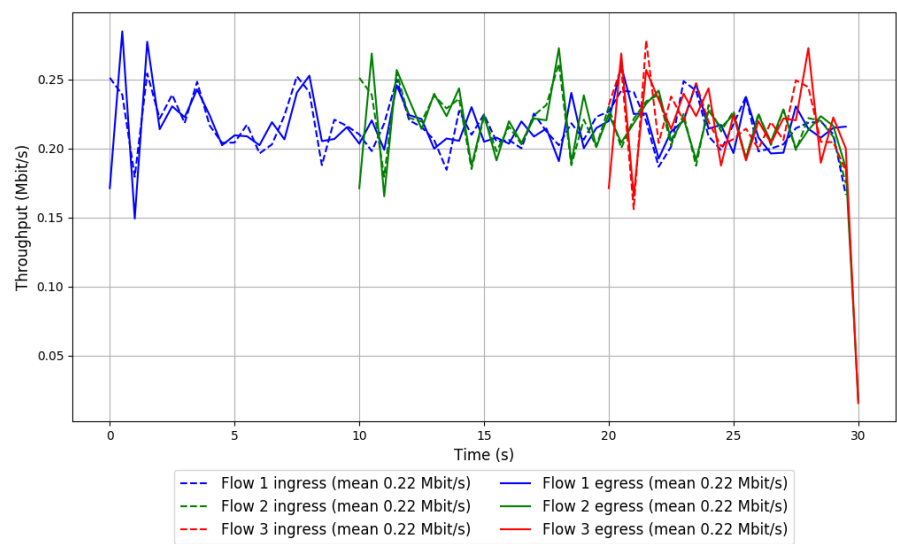
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 114.388 ms

Loss rate: 0.00%

Run 8: Report of SCReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2017-12-06 01:14:40

End at: 2017-12-06 01:15:10

Below is generated by plot.py at 2017-12-06 03:01:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 117.460 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 117.513 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 114.428 ms

Loss rate: 0.00%

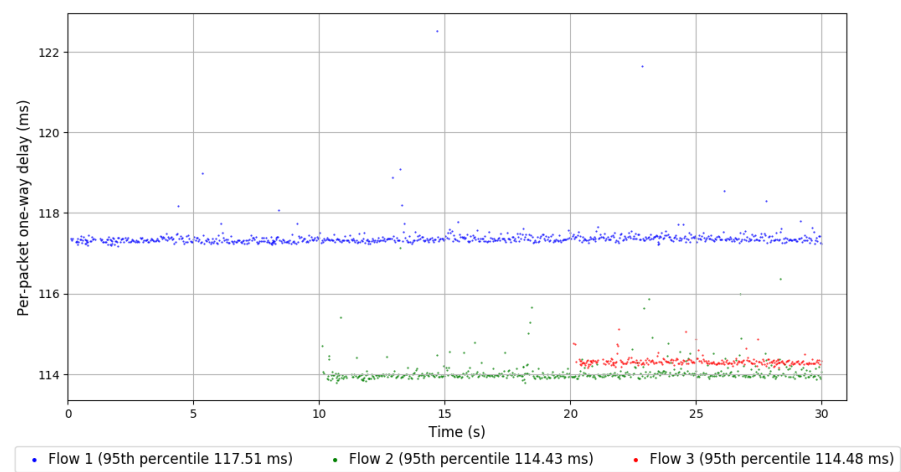
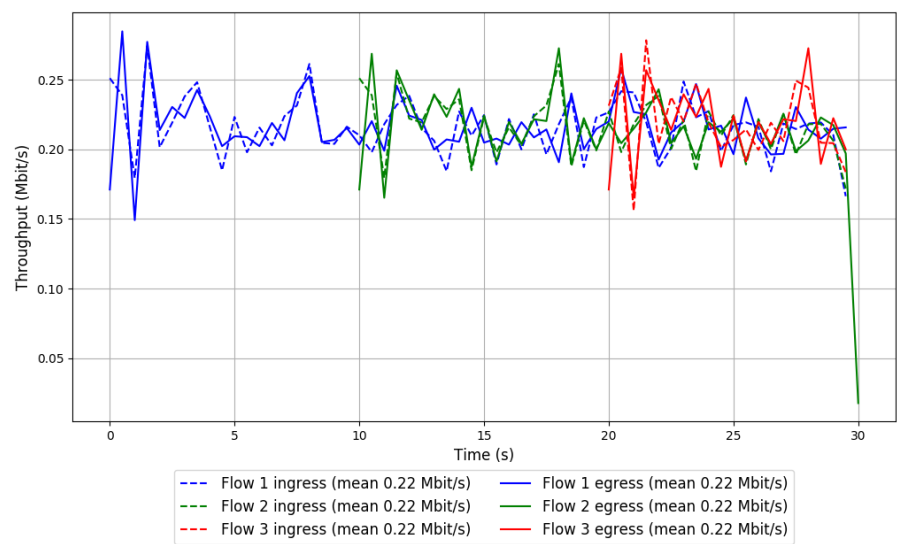
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 114.480 ms

Loss rate: 0.35%

Run 9: Report of SReAM — Data Link

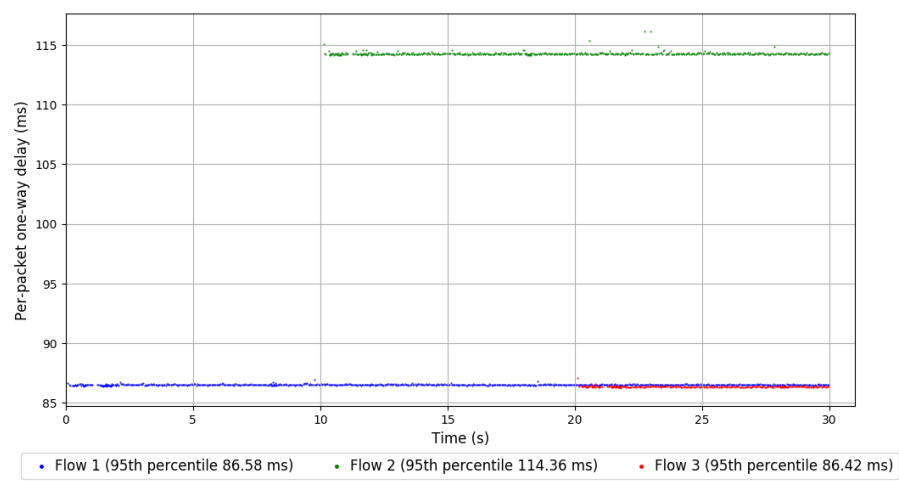
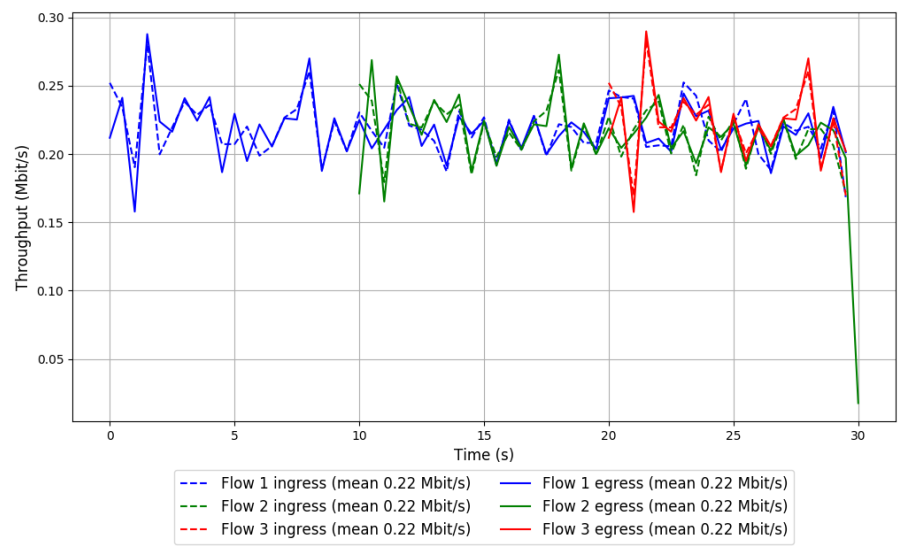


```
Run 10: Statistics of SReAM

Start at: 2017-12-06 01:27:25
End at: 2017-12-06 01:27:55

# Below is generated by plot.py at 2017-12-06 03:01:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 114.306 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.584 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 114.365 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.417 ms
Loss rate: 0.00%
```

Run 10: Report of SCReAM — Data Link

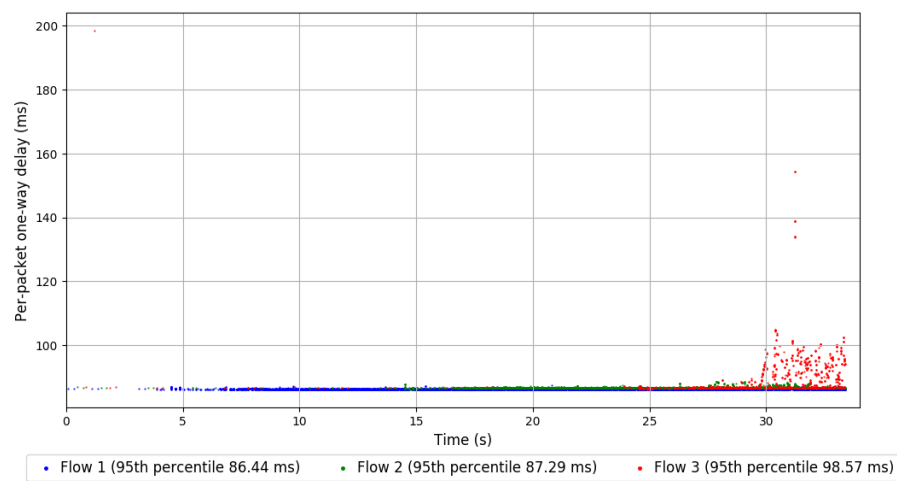
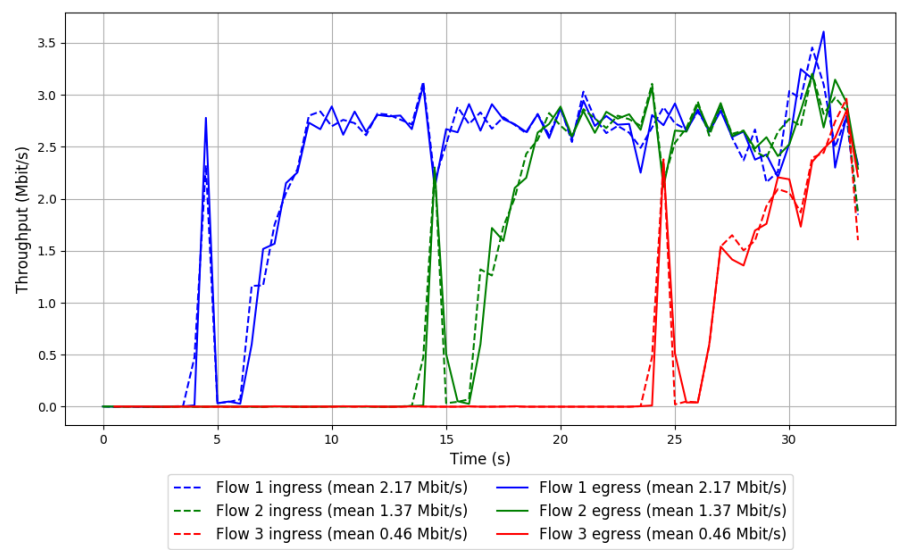


```
Run 1: Statistics of WebRTC media

Start at: 2017-12-05 23:30:07
End at: 2017-12-05 23:30:37

# Below is generated by plot.py at 2017-12-06 03:01:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.96 Mbit/s
95th percentile per-packet one-way delay: 87.554 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.17 Mbit/s
95th percentile per-packet one-way delay: 86.440 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.37 Mbit/s
95th percentile per-packet one-way delay: 87.286 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.46 Mbit/s
95th percentile per-packet one-way delay: 98.566 ms
Loss rate: 0.00%
```


Run 1: Report of WebRTC media — Data Link

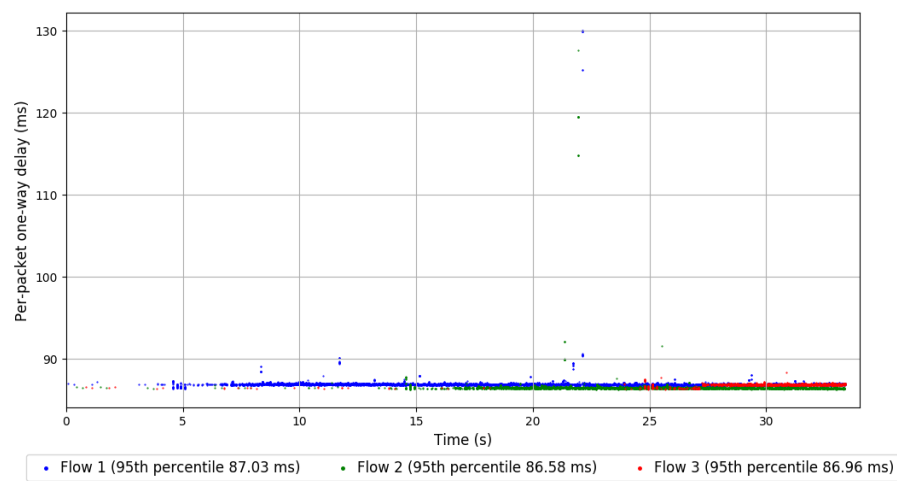
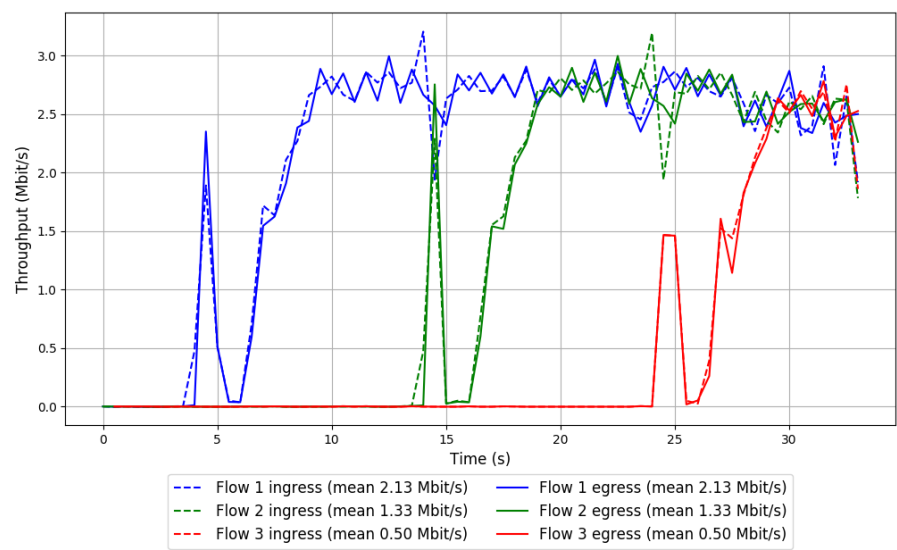


```
Run 2: Statistics of WebRTC media

Start at: 2017-12-05 23:43:16
End at: 2017-12-05 23:43:46

# Below is generated by plot.py at 2017-12-06 03:01:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.94 Mbit/s
95th percentile per-packet one-way delay: 86.986 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.13 Mbit/s
95th percentile per-packet one-way delay: 87.025 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.33 Mbit/s
95th percentile per-packet one-way delay: 86.582 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.50 Mbit/s
95th percentile per-packet one-way delay: 86.956 ms
Loss rate: 0.00%
```

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2017-12-05 23:56:15

End at: 2017-12-05 23:56:45

Below is generated by plot.py at 2017-12-06 03:01:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.89 Mbit/s

95th percentile per-packet one-way delay: 86.894 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.11 Mbit/s

95th percentile per-packet one-way delay: 86.881 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.31 Mbit/s

95th percentile per-packet one-way delay: 117.235 ms

Loss rate: 0.00%

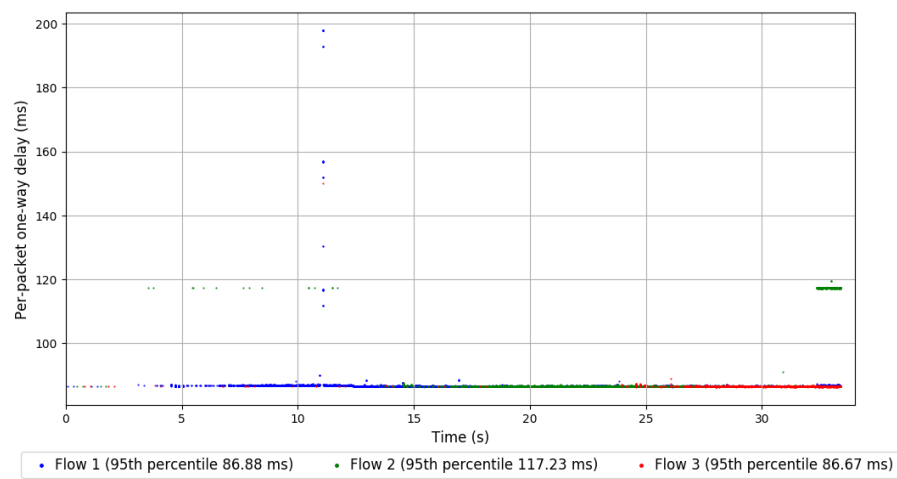
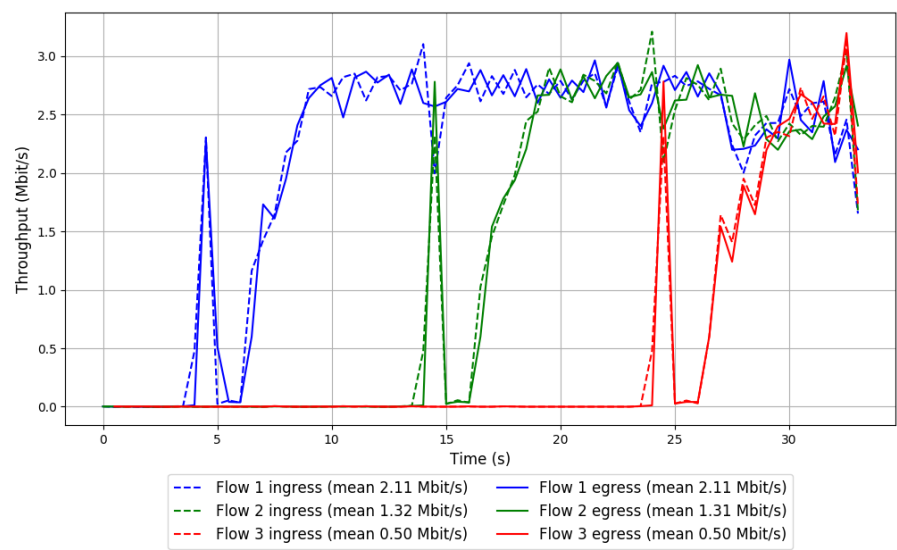
-- Flow 3:

Average throughput: 0.50 Mbit/s

95th percentile per-packet one-way delay: 86.666 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2017-12-06 00:08:37

End at: 2017-12-06 00:09:07

Below is generated by plot.py at 2017-12-06 03:01:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.80 Mbit/s

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

Loss rate: 0.17%

-- Flow 1:

Average throughput: 2.06 Mbit/s

95th percentile per-packet one-way delay: 117.258 ms

Loss rate: 0.11%

-- Flow 2:

Average throughput: 1.29 Mbit/s

95th percentile per-packet one-way delay: 117.420 ms

Loss rate: 0.33%

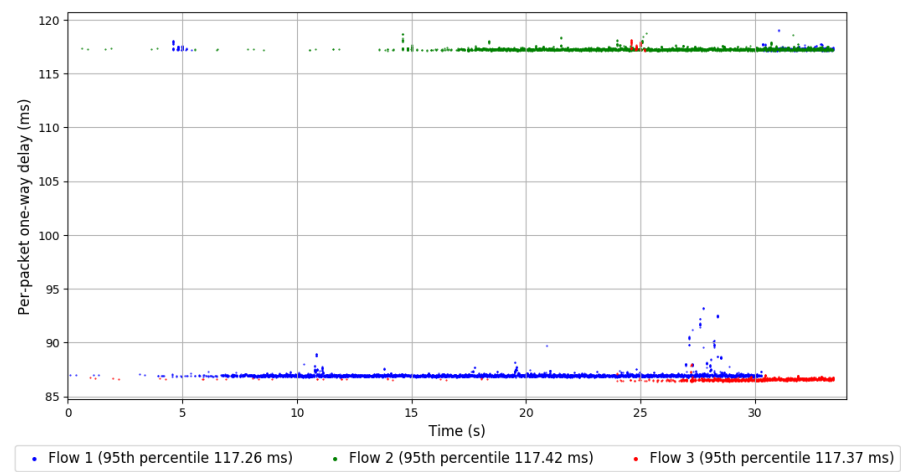
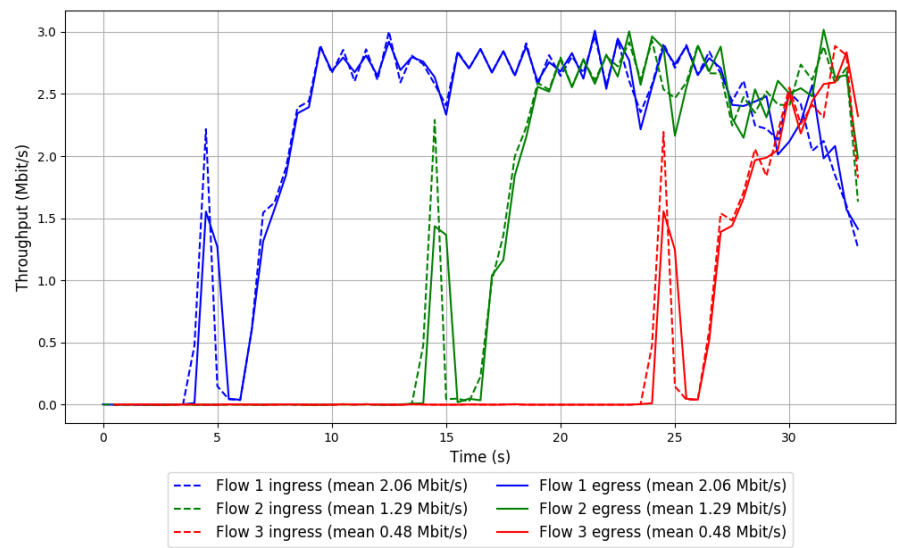
-- Flow 3:

Average throughput: 0.48 Mbit/s

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

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2017-12-06 00:21:24

End at: 2017-12-06 00:21:54

Below is generated by plot.py at 2017-12-06 03:01:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.74 Mbit/s

95th percentile per-packet one-way delay: 117.366 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.13 Mbit/s

95th percentile per-packet one-way delay: 87.072 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.30 Mbit/s

95th percentile per-packet one-way delay: 117.416 ms

Loss rate: 0.00%

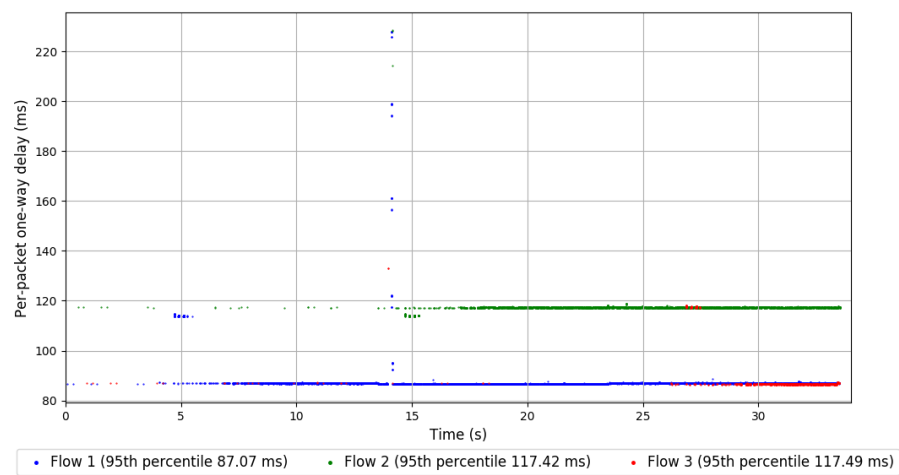
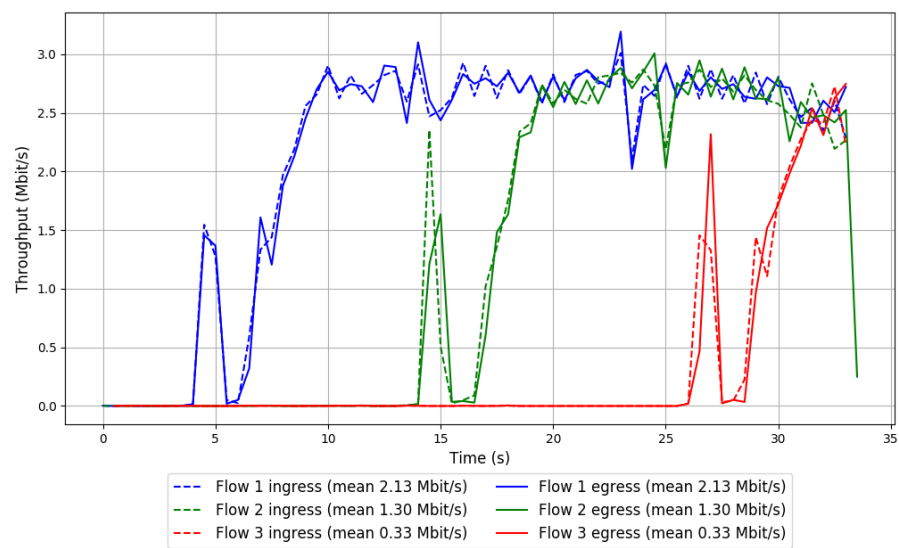
-- Flow 3:

Average throughput: 0.33 Mbit/s

95th percentile per-packet one-way delay: 117.486 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2017-12-06 00:34:14

End at: 2017-12-06 00:34:44

Below is generated by plot.py at 2017-12-06 03:01:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.81 Mbit/s

95th percentile per-packet one-way delay: 114.283 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.09 Mbit/s

95th percentile per-packet one-way delay: 86.670 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.28 Mbit/s

95th percentile per-packet one-way delay: 114.401 ms

Loss rate: 0.00%

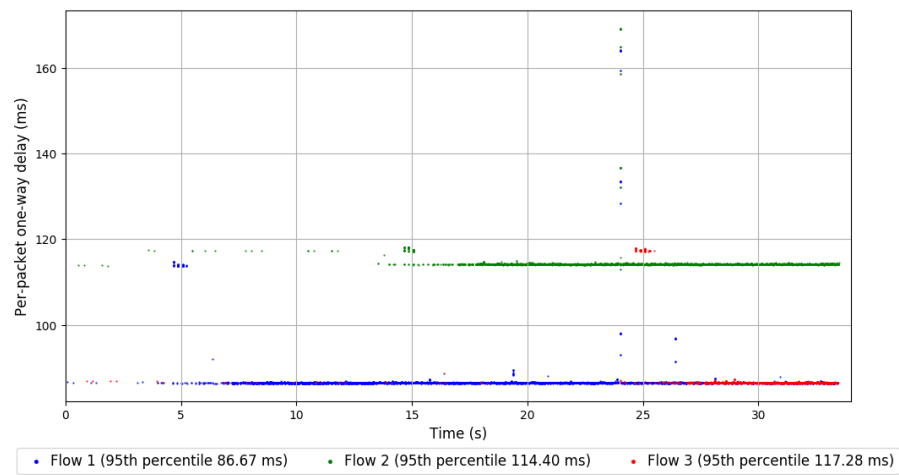
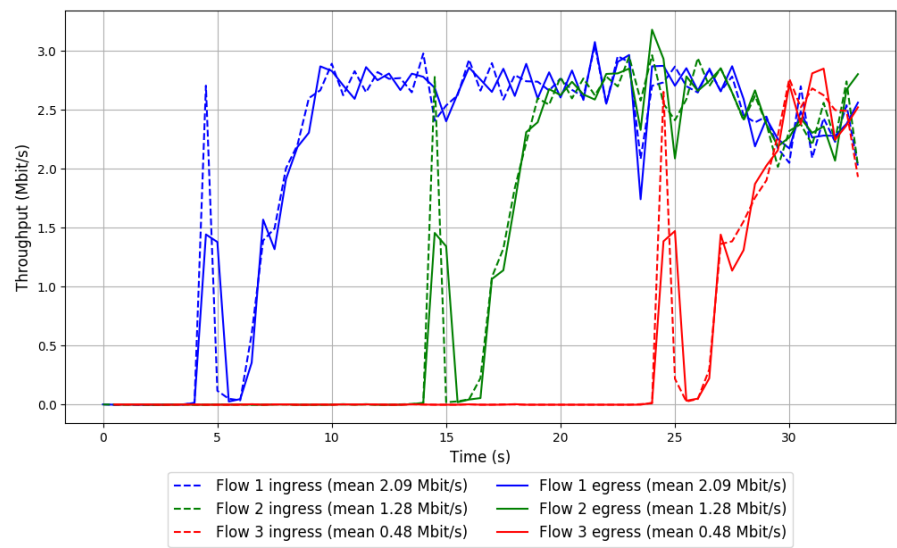
-- Flow 3:

Average throughput: 0.48 Mbit/s

95th percentile per-packet one-way delay: 117.276 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link

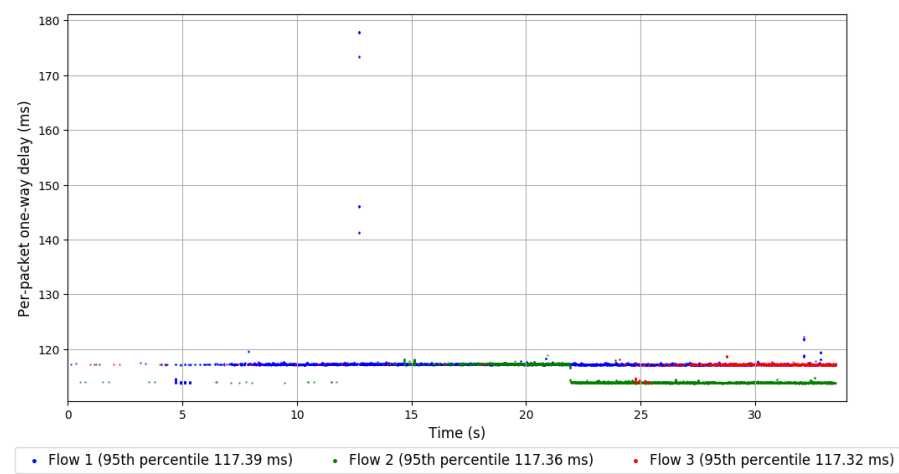
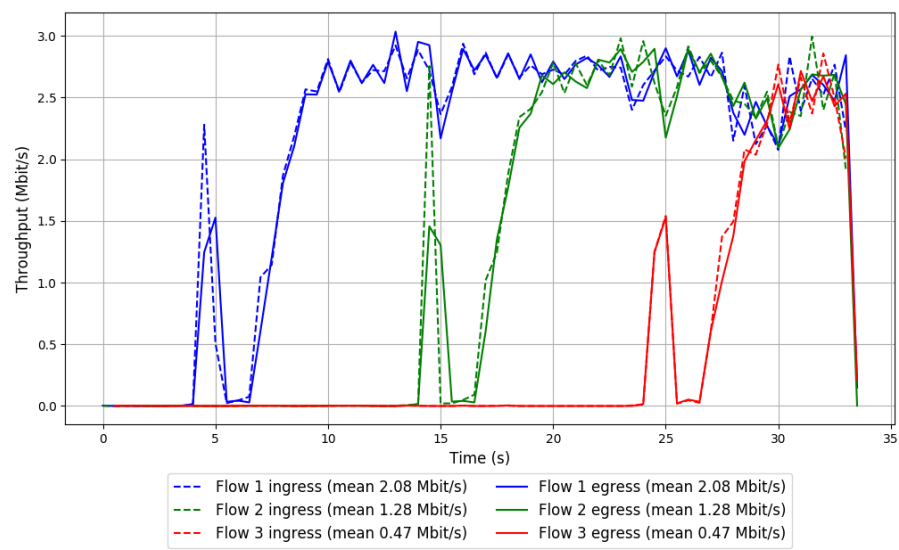


```
Run 7: Statistics of WebRTC media

Start at: 2017-12-06 00:46:55
End at: 2017-12-06 00:47:25

# Below is generated by plot.py at 2017-12-06 03:01:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.80 Mbit/s
95th percentile per-packet one-way delay: 117.375 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 2.08 Mbit/s
95th percentile per-packet one-way delay: 117.387 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 1.28 Mbit/s
95th percentile per-packet one-way delay: 117.363 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.47 Mbit/s
95th percentile per-packet one-way delay: 117.320 ms
Loss rate: 0.00%
```

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2017-12-06 00:59:34

End at: 2017-12-06 01:00:04

Below is generated by plot.py at 2017-12-06 03:01:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.83 Mbit/s

95th percentile per-packet one-way delay: 117.341 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.13 Mbit/s

95th percentile per-packet one-way delay: 87.076 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.24 Mbit/s

95th percentile per-packet one-way delay: 117.471 ms

Loss rate: 0.00%

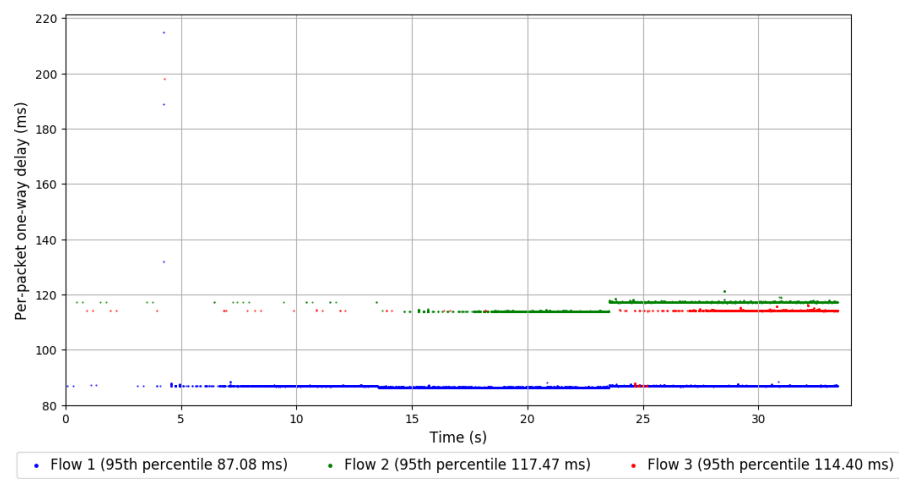
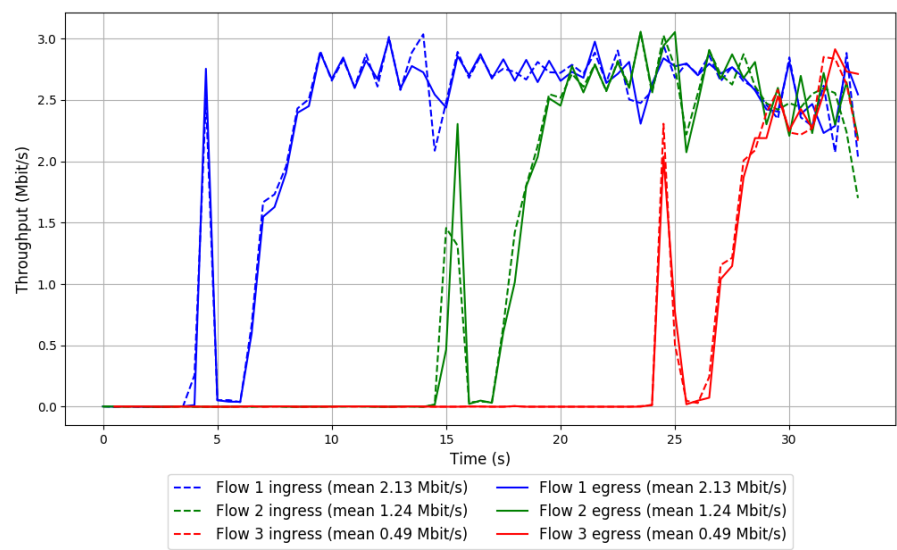
-- Flow 3:

Average throughput: 0.49 Mbit/s

95th percentile per-packet one-way delay: 114.403 ms

Loss rate: 0.01%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2017-12-06 01:12:10

End at: 2017-12-06 01:12:40

Below is generated by plot.py at 2017-12-06 03:01:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.88 Mbit/s

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

Loss rate: 0.01%

-- Flow 1:

Average throughput: 2.10 Mbit/s

95th percentile per-packet one-way delay: 117.428 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.30 Mbit/s

95th percentile per-packet one-way delay: 86.685 ms

Loss rate: 0.00%

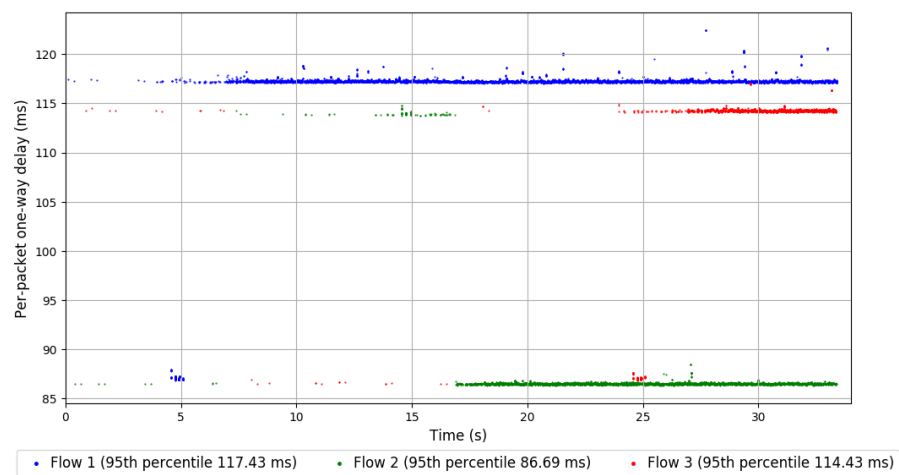
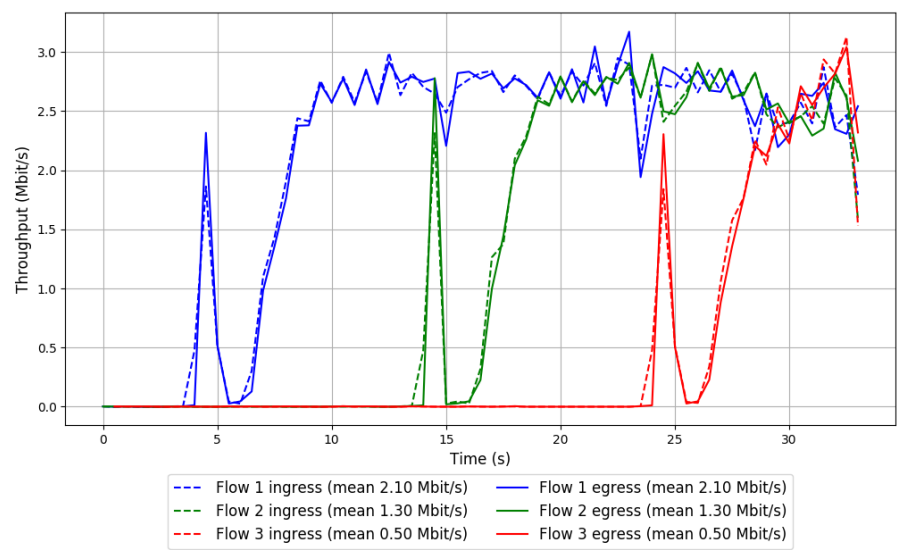
-- Flow 3:

Average throughput: 0.50 Mbit/s

95th percentile per-packet one-way delay: 114.432 ms

Loss rate: 0.06%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2017-12-06 01:24:57

End at: 2017-12-06 01:25:27

Below is generated by plot.py at 2017-12-06 03:01:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.93 Mbit/s

95th percentile per-packet one-way delay: 117.167 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 2.13 Mbit/s

95th percentile per-packet one-way delay: 87.058 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.33 Mbit/s

95th percentile per-packet one-way delay: 87.113 ms

Loss rate: 0.00%

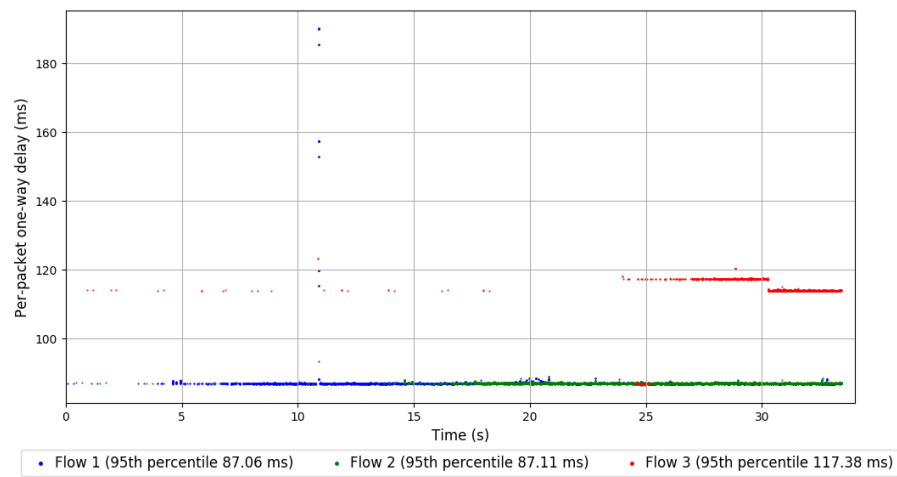
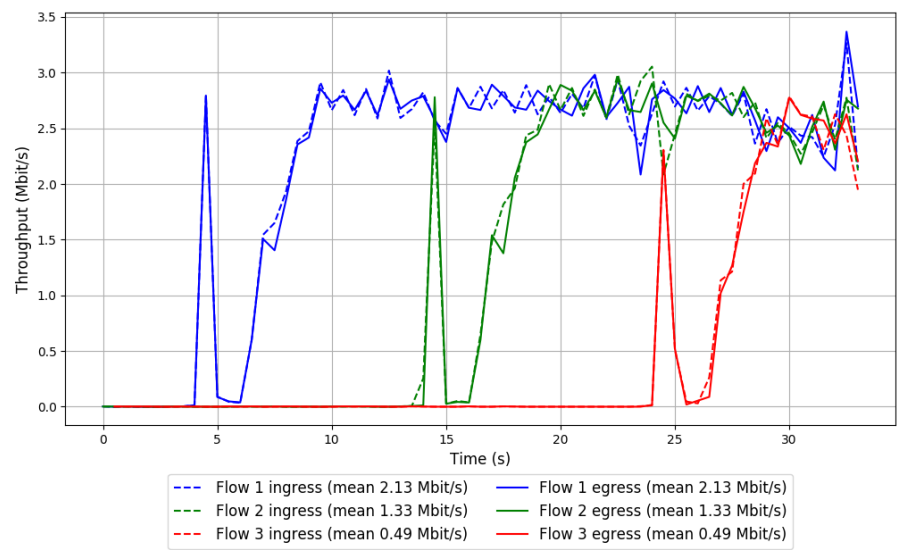
-- Flow 3:

Average throughput: 0.49 Mbit/s

95th percentile per-packet one-way delay: 117.381 ms

Loss rate: 0.68%

Run 10: Report of WebRTC media — Data Link

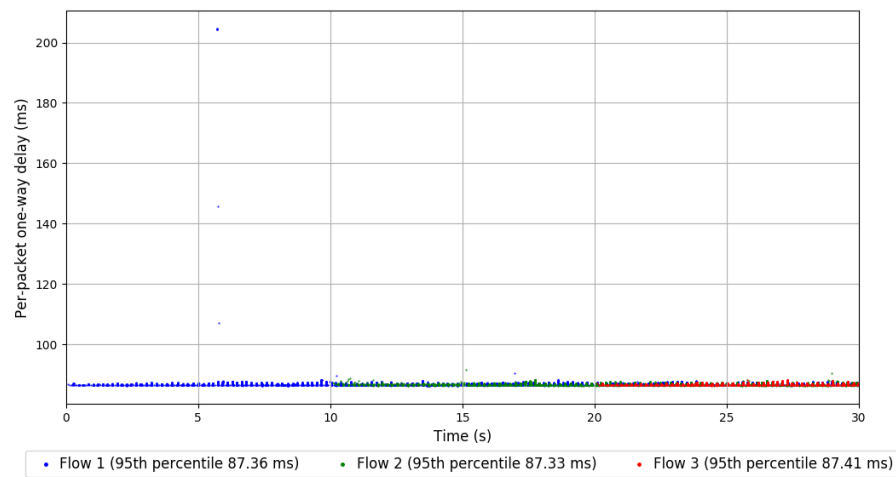
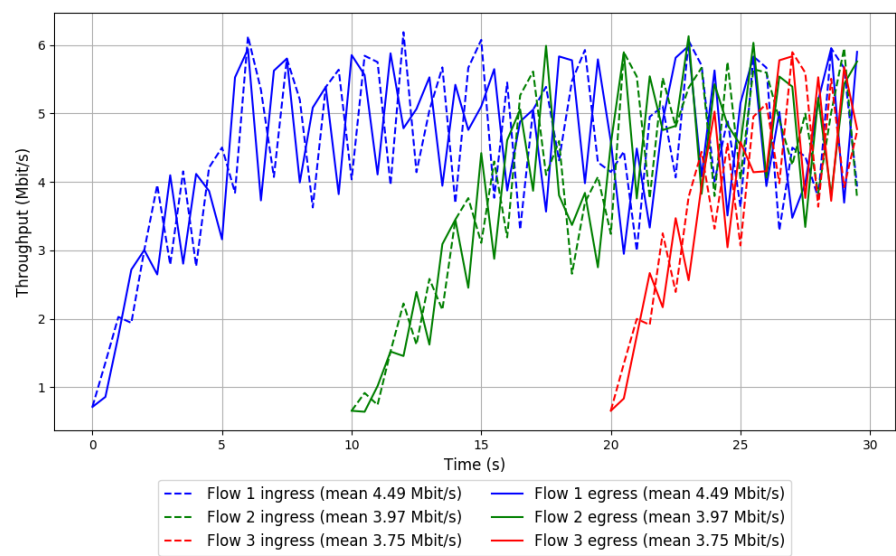


```
Run 1: Statistics of Sprout

Start at: 2017-12-05 23:35:29
End at: 2017-12-05 23:35:59

# Below is generated by plot.py at 2017-12-06 03:01:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.36 Mbit/s
95th percentile per-packet one-way delay: 87.359 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 4.49 Mbit/s
95th percentile per-packet one-way delay: 87.360 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 3.97 Mbit/s
95th percentile per-packet one-way delay: 87.329 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 3.75 Mbit/s
95th percentile per-packet one-way delay: 87.413 ms
Loss rate: 0.00%
```

Run 1: Report of Sprout — Data Link

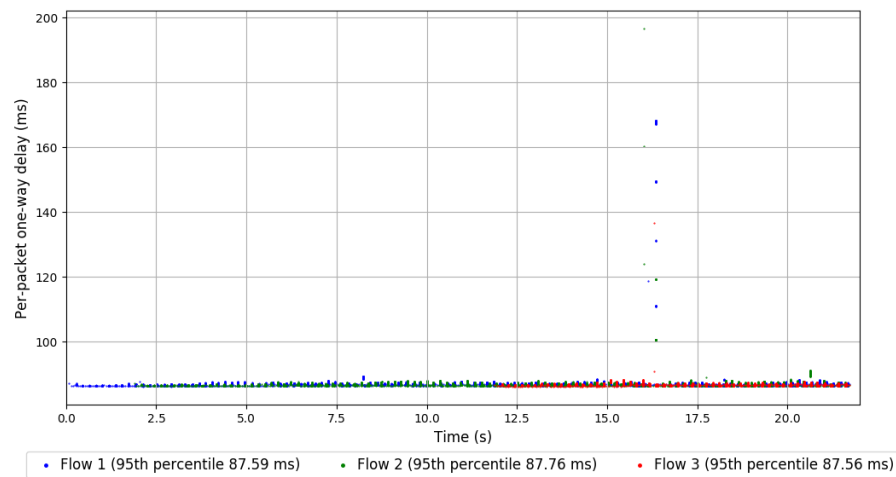
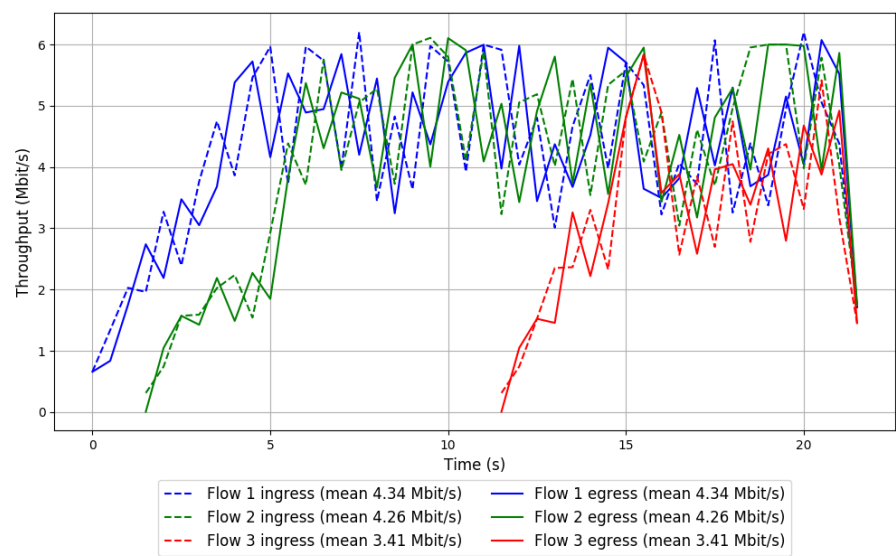


Run 2: Statistics of Sprout

Start at: 2017-12-05 23:48:40

End at: 2017-12-05 23:49:10

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2017-12-06 00:01:17

End at: 2017-12-06 00:01:47

Below is generated by plot.py at 2017-12-06 03:01:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.53 Mbit/s

95th percentile per-packet one-way delay: 117.577 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 3.10 Mbit/s

95th percentile per-packet one-way delay: 117.612 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.75 Mbit/s

95th percentile per-packet one-way delay: 117.480 ms

Loss rate: 0.00%

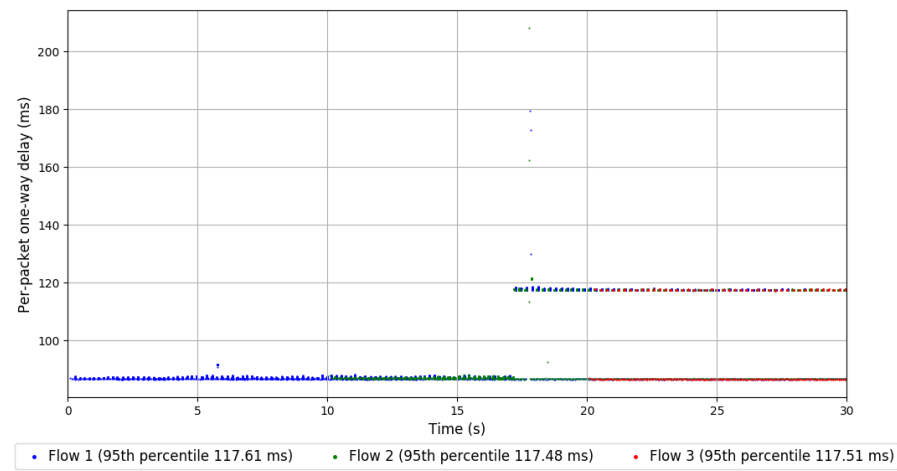
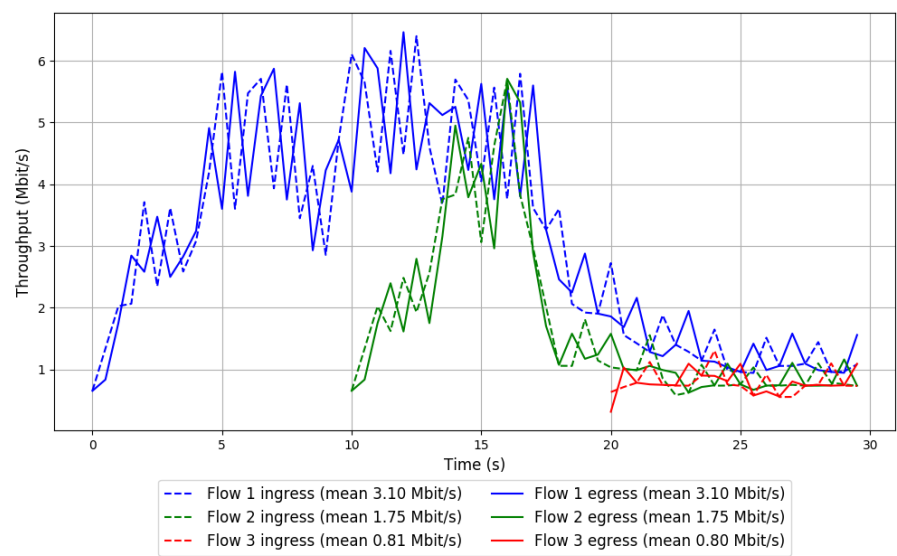
-- Flow 3:

Average throughput: 0.80 Mbit/s

95th percentile per-packet one-way delay: 117.514 ms

Loss rate: 0.07%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2017-12-06 00:13:40

End at: 2017-12-06 00:14:10

Below is generated by plot.py at 2017-12-06 03:01:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 2.26 Mbit/s

95th percentile per-packet one-way delay: 117.583 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.50 Mbit/s

95th percentile per-packet one-way delay: 117.636 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.61 Mbit/s

95th percentile per-packet one-way delay: 117.378 ms

Loss rate: 0.00%

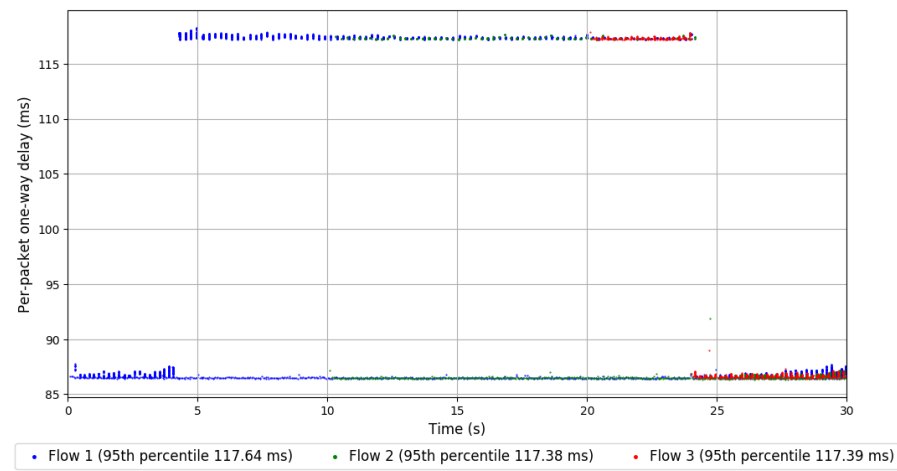
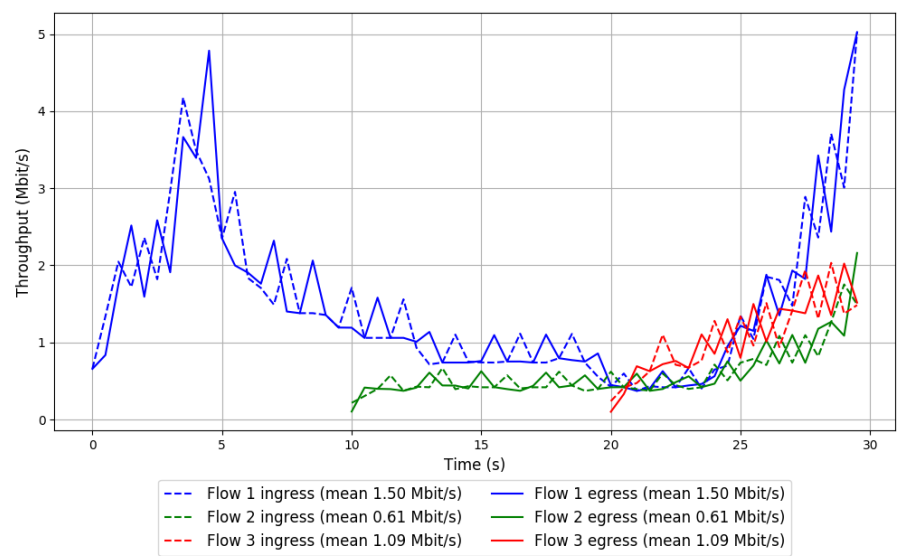
-- Flow 3:

Average throughput: 1.09 Mbit/s

95th percentile per-packet one-way delay: 117.391 ms

Loss rate: 0.00%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2017-12-06 00:26:26

End at: 2017-12-06 00:26:56

Below is generated by plot.py at 2017-12-06 03:01:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 5.32 Mbit/s

95th percentile per-packet one-way delay: 115.029 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 3.47 Mbit/s

95th percentile per-packet one-way delay: 114.966 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 2.60 Mbit/s

95th percentile per-packet one-way delay: 115.158 ms

Loss rate: 0.00%

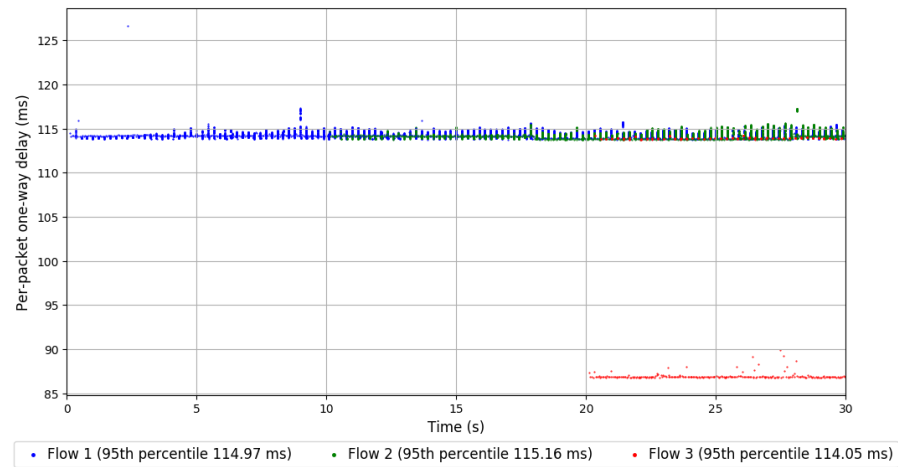
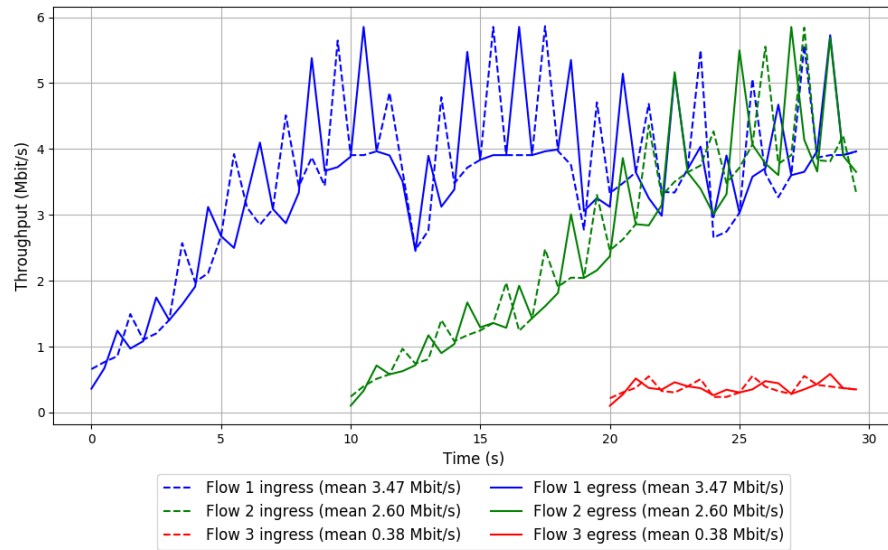
-- Flow 3:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 114.054 ms

Loss rate: 0.00%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2017-12-06 00:39:10

End at: 2017-12-06 00:39:40

Below is generated by plot.py at 2017-12-06 03:01:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.53 Mbit/s

95th percentile per-packet one-way delay: 118.101 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.51 Mbit/s

95th percentile per-packet one-way delay: 118.140 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.83 Mbit/s

95th percentile per-packet one-way delay: 117.652 ms

Loss rate: 0.00%

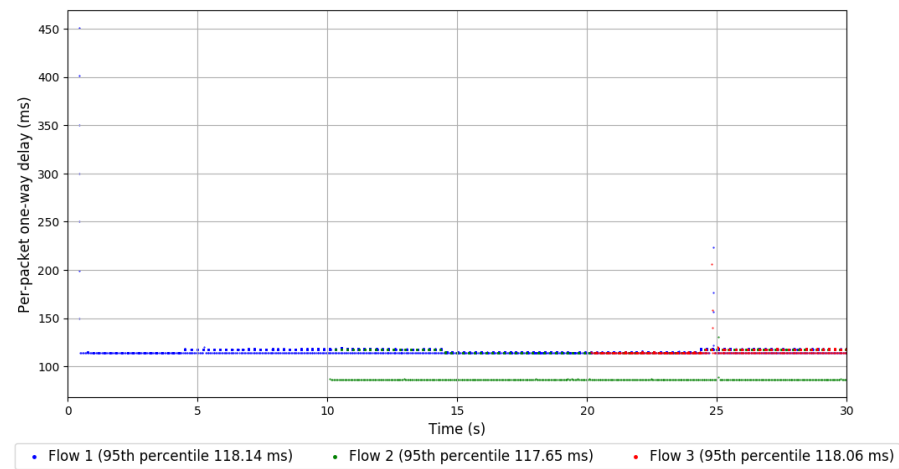
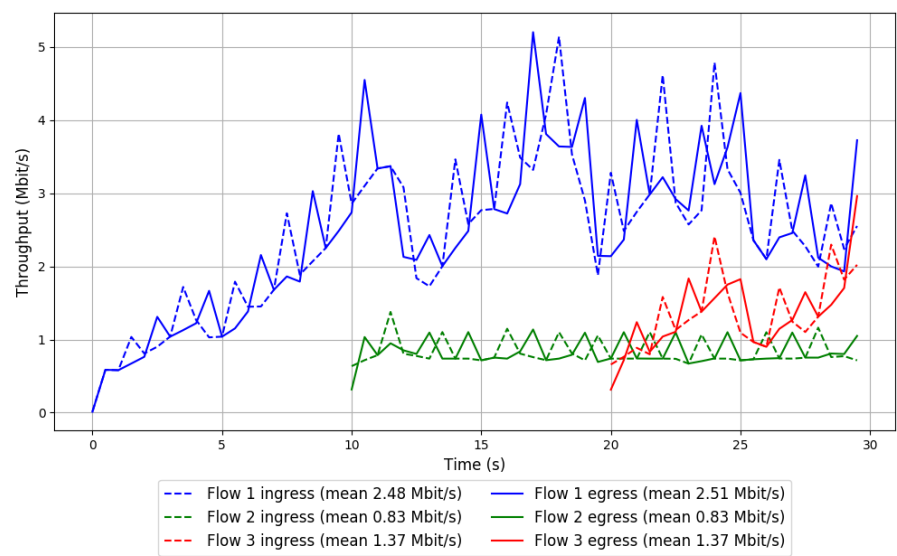
-- Flow 3:

Average throughput: 1.37 Mbit/s

95th percentile per-packet one-way delay: 118.061 ms

Loss rate: 0.00%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2017-12-06 00:52:07

End at: 2017-12-06 00:52:37

Below is generated by plot.py at 2017-12-06 03:01:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 5.64 Mbit/s

95th percentile per-packet one-way delay: 114.726 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 2.82 Mbit/s

95th percentile per-packet one-way delay: 114.697 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 3.23 Mbit/s

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

Loss rate: 0.23%

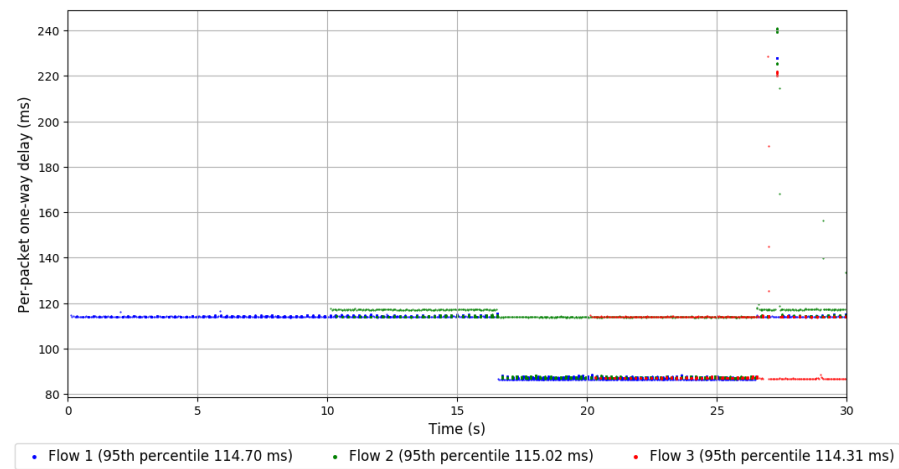
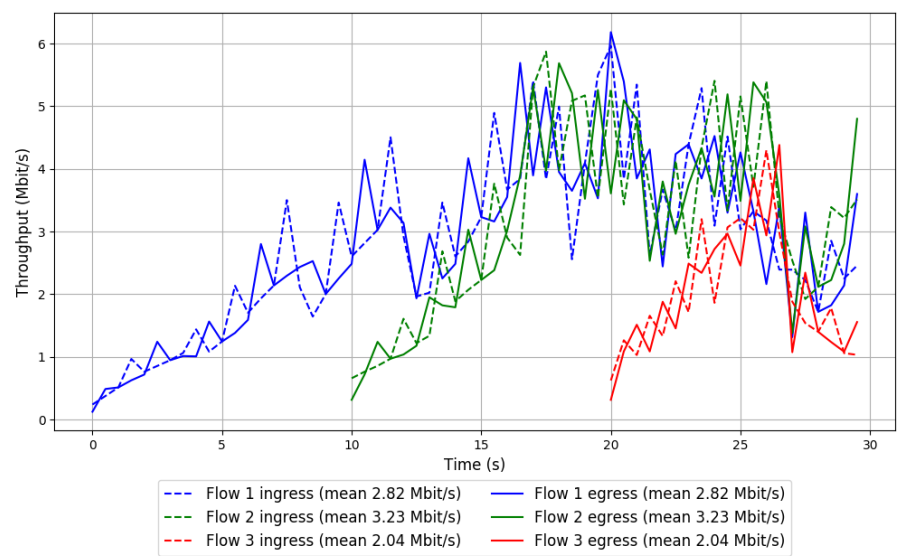
-- Flow 3:

Average throughput: 2.04 Mbit/s

95th percentile per-packet one-way delay: 114.311 ms

Loss rate: 0.00%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2017-12-06 01:04:37

End at: 2017-12-06 01:05:07

Below is generated by plot.py at 2017-12-06 03:01:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 6.59 Mbit/s

95th percentile per-packet one-way delay: 114.223 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.78 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 4.15 Mbit/s

95th percentile per-packet one-way delay: 87.896 ms

Loss rate: 0.00%

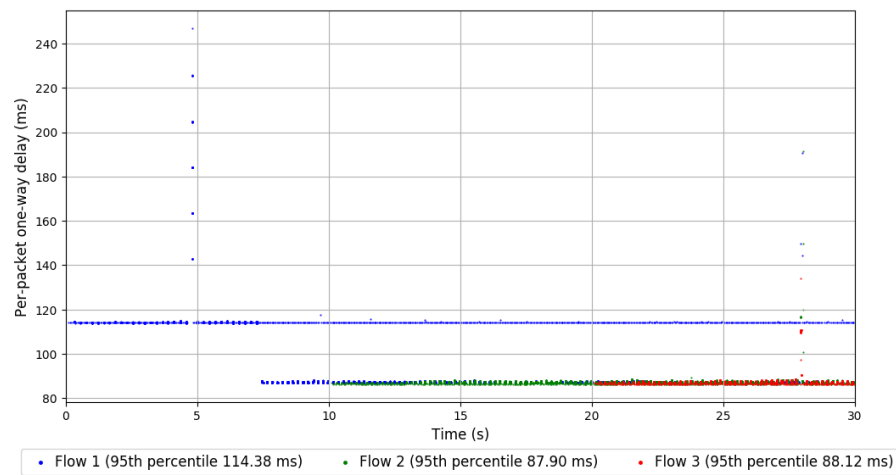
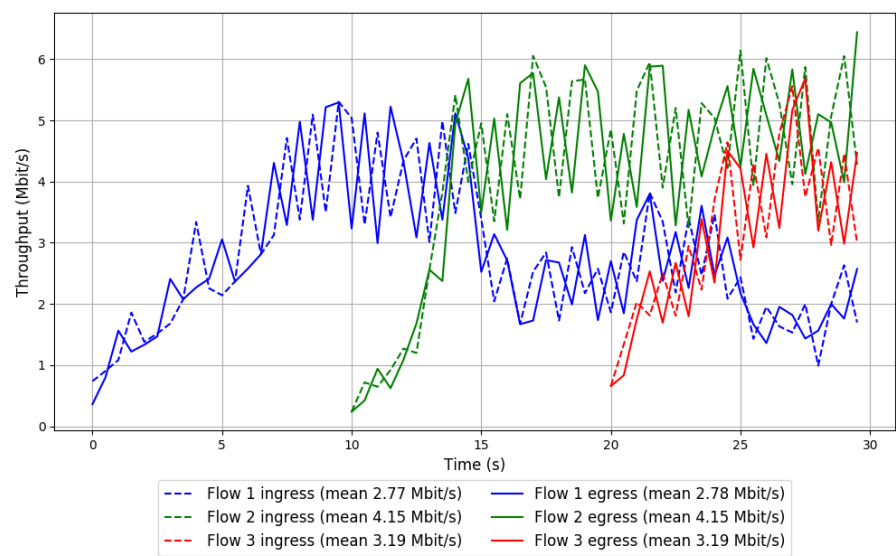
-- Flow 3:

Average throughput: 3.19 Mbit/s

95th percentile per-packet one-way delay: 88.119 ms

Loss rate: 0.00%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2017-12-06 01:17:15

End at: 2017-12-06 01:17:45

Below is generated by plot.py at 2017-12-06 03:01:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 7.98 Mbit/s

95th percentile per-packet one-way delay: 87.620 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 4.42 Mbit/s

95th percentile per-packet one-way delay: 87.555 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 3.79 Mbit/s

95th percentile per-packet one-way delay: 87.558 ms

Loss rate: 0.00%

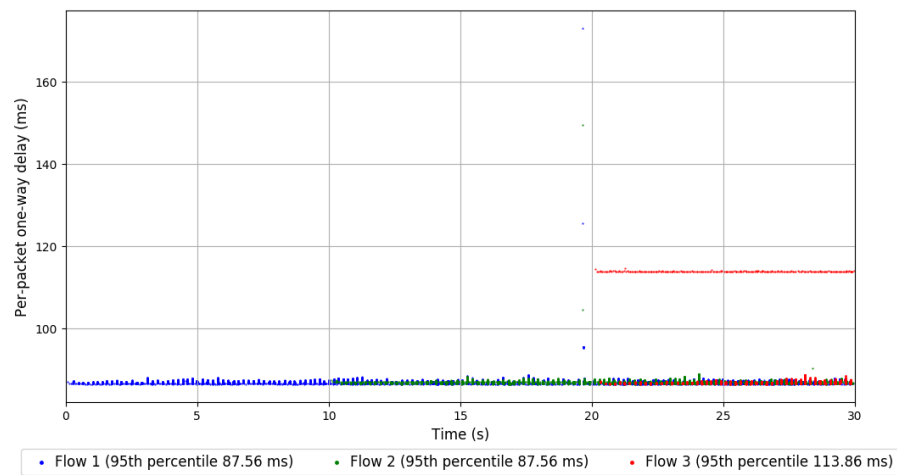
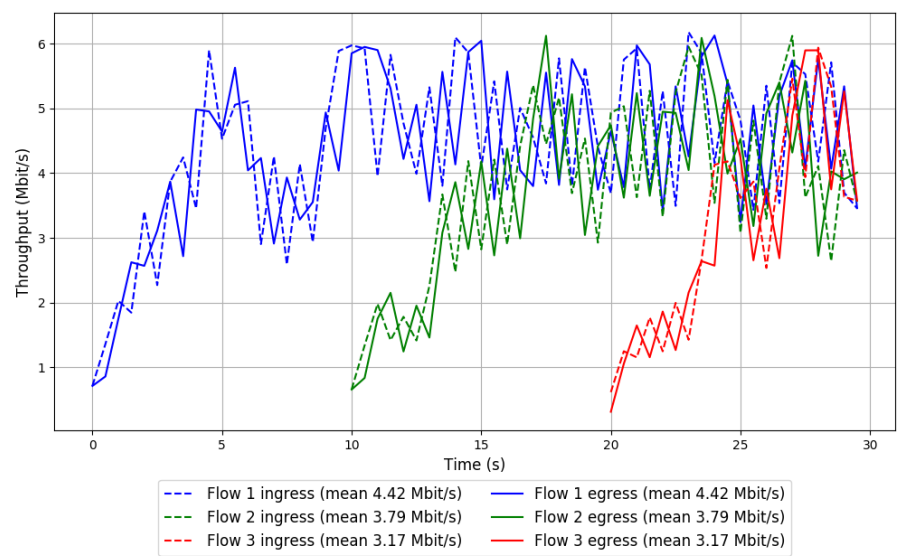
-- Flow 3:

Average throughput: 3.17 Mbit/s

95th percentile per-packet one-way delay: 113.856 ms

Loss rate: 0.00%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2017-12-06 01:30:15

End at: 2017-12-06 01:30:45

Below is generated by plot.py at 2017-12-06 03:01:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.74 Mbit/s

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

Loss rate: 0.04%

-- Flow 1:

Average throughput: 3.21 Mbit/s

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

Loss rate: 0.06%

-- Flow 2:

Average throughput: 0.34 Mbit/s

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

Loss rate: 0.01%

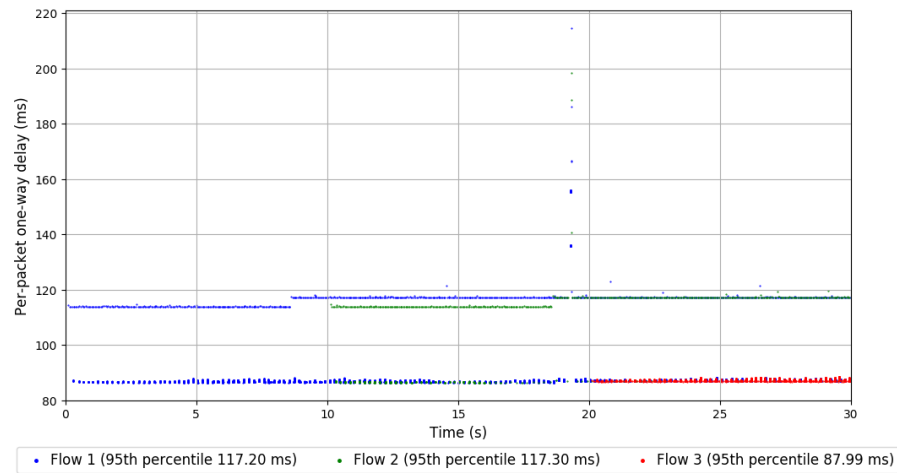
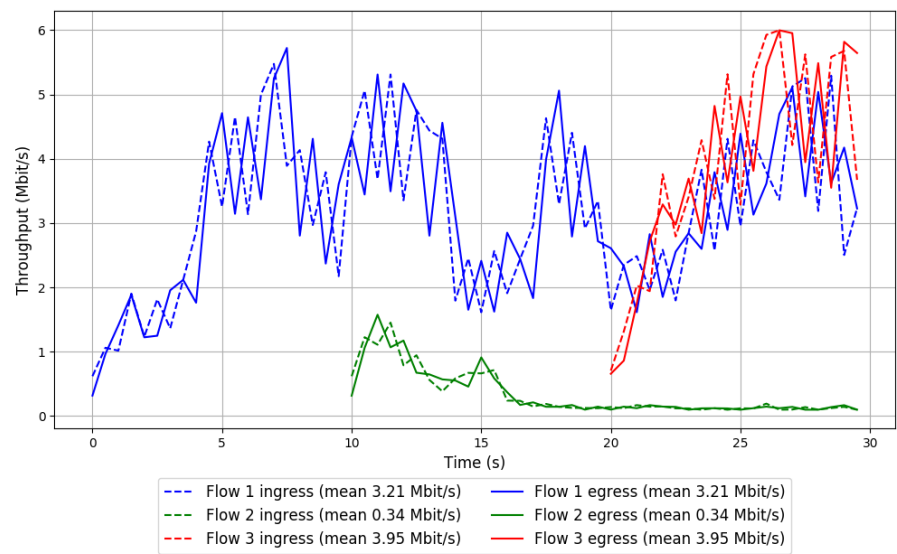
-- Flow 3:

Average throughput: 3.95 Mbit/s

95th percentile per-packet one-way delay: 87.989 ms

Loss rate: 0.00%

Run 10: Report of Sprout — Data Link

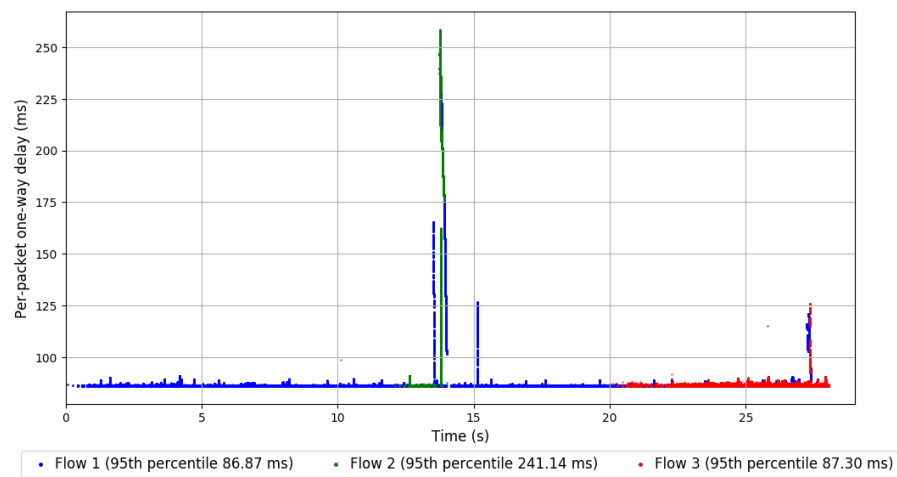
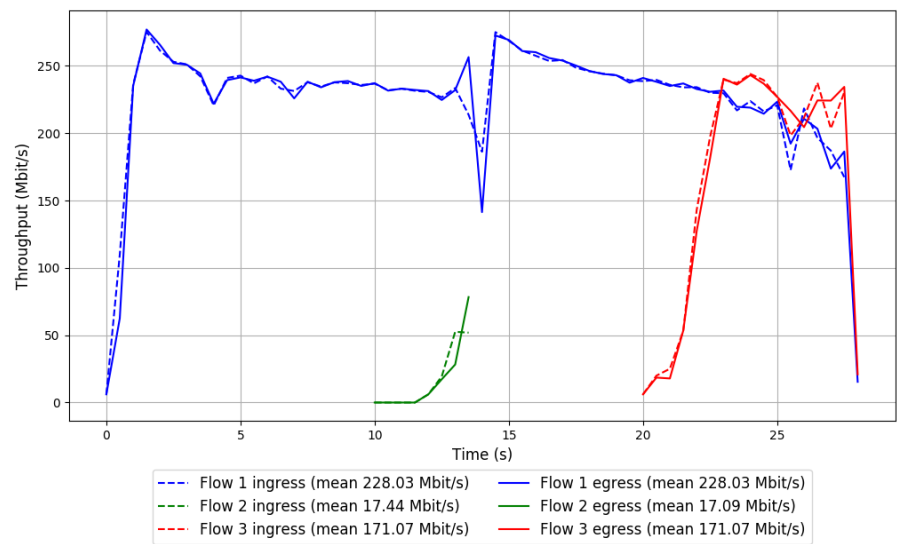


```
Run 1: Statistics of TaoVA-100x

Start at: 2017-12-05 23:33:19
End at: 2017-12-05 23:33:49

# Below is generated by plot.py at 2017-12-06 03:06:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 278.88 Mbit/s
95th percentile per-packet one-way delay: 87.058 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 228.03 Mbit/s
95th percentile per-packet one-way delay: 86.869 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 17.09 Mbit/s
95th percentile per-packet one-way delay: 241.137 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 171.07 Mbit/s
95th percentile per-packet one-way delay: 87.300 ms
Loss rate: 0.00%
```


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

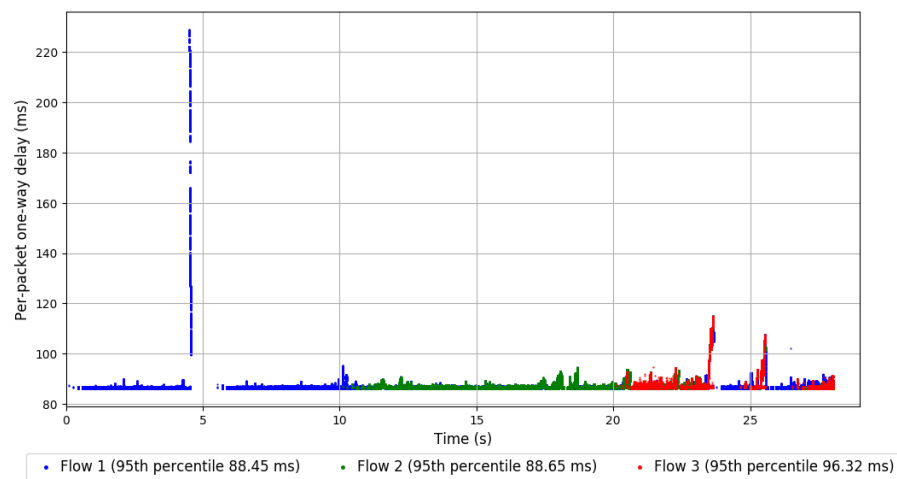
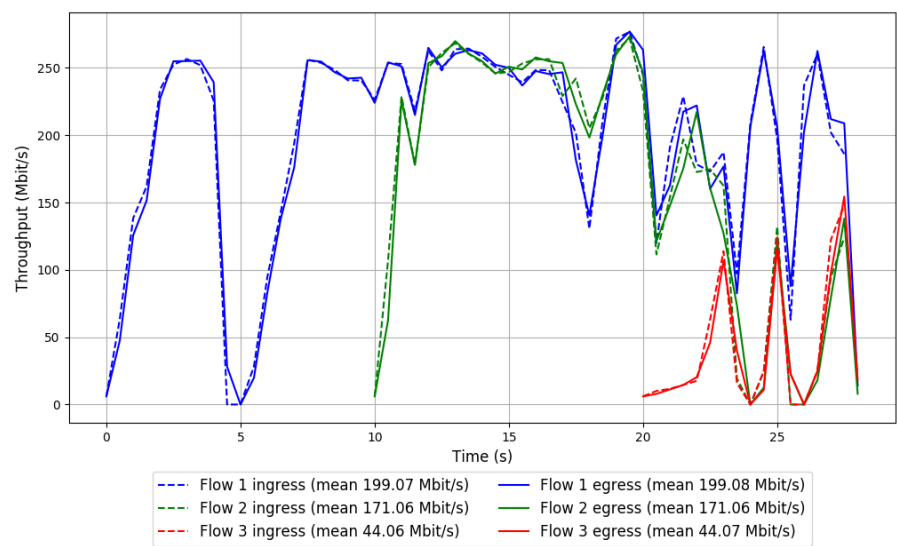


```
Run 2: Statistics of TaoVA-100x

Start at: 2017-12-05 23:46:28
End at: 2017-12-05 23:46:58

# Below is generated by plot.py at 2017-12-06 03:08:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 321.35 Mbit/s
95th percentile per-packet one-way delay: 88.663 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 199.08 Mbit/s
95th percentile per-packet one-way delay: 88.451 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 171.06 Mbit/s
95th percentile per-packet one-way delay: 88.649 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 44.07 Mbit/s
95th percentile per-packet one-way delay: 96.316 ms
Loss rate: 0.00%
```

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

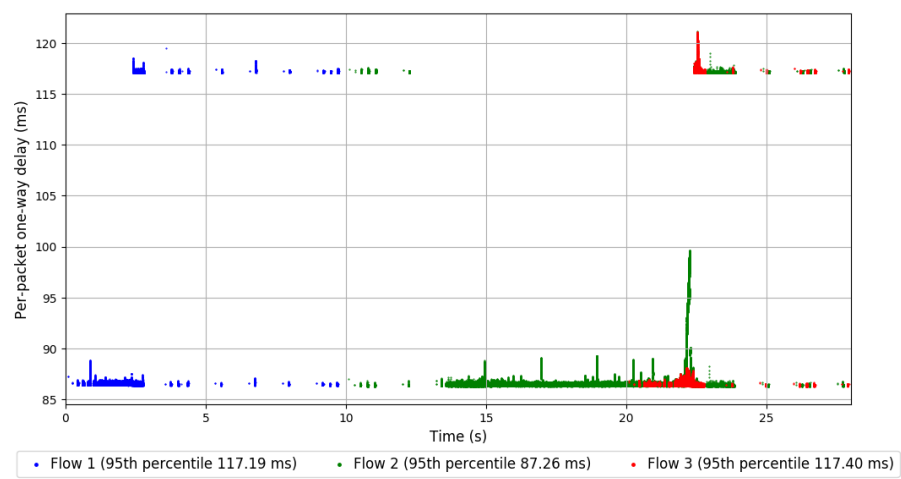
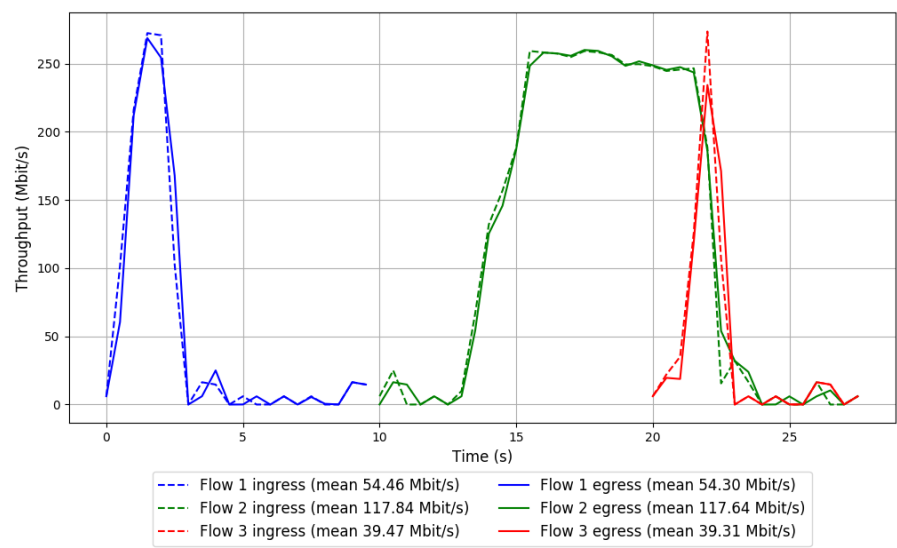


```
Run 3: Statistics of TaoVA-100x

Start at: 2017-12-05 23:59:30
End at: 2017-12-06 00:00:00

# Below is generated by plot.py at 2017-12-06 03:08:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 104.53 Mbit/s
95th percentile per-packet one-way delay: 117.139 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 54.30 Mbit/s
95th percentile per-packet one-way delay: 117.186 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 117.64 Mbit/s
95th percentile per-packet one-way delay: 87.256 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 39.31 Mbit/s
95th percentile per-packet one-way delay: 117.401 ms
Loss rate: 0.00%
```

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

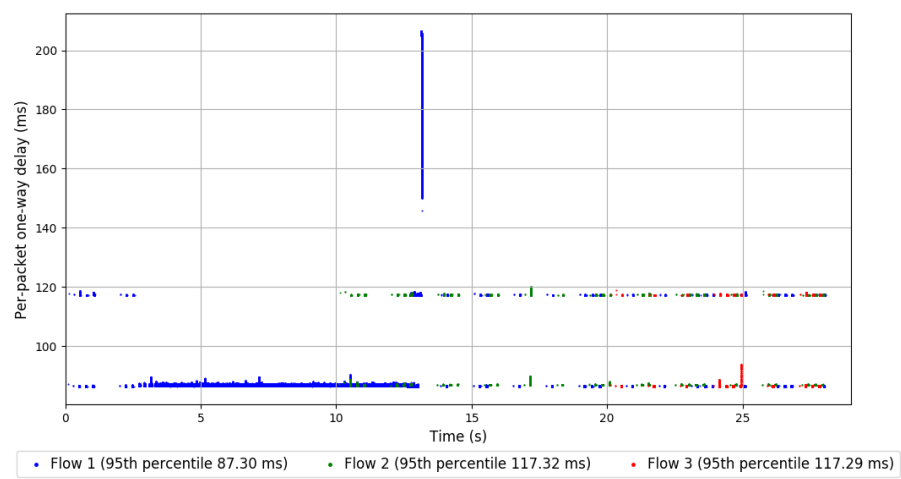
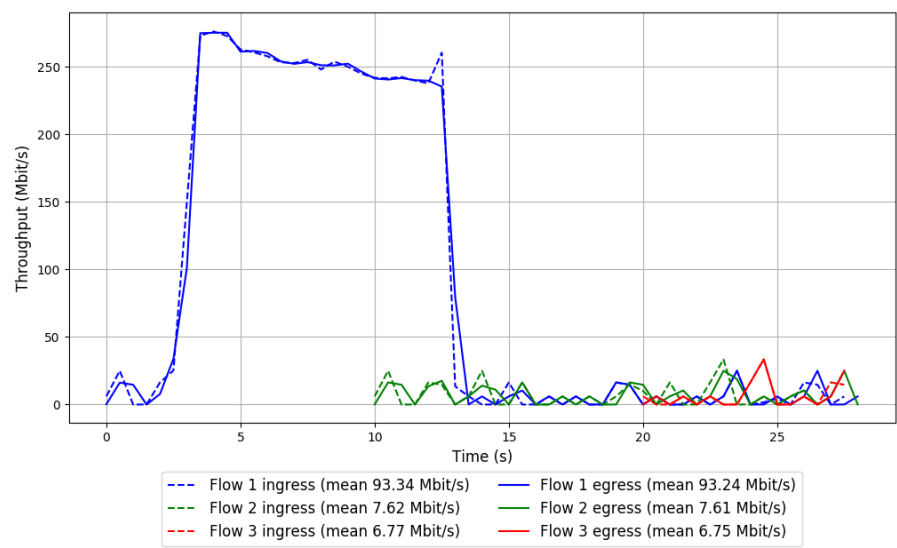


```
Run 4: Statistics of TaoVA-100x

Start at: 2017-12-06 00:11:49
End at: 2017-12-06 00:12:19

# Below is generated by plot.py at 2017-12-06 03:08:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 100.00 Mbit/s
95th percentile per-packet one-way delay: 117.180 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 93.24 Mbit/s
95th percentile per-packet one-way delay: 87.296 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 7.61 Mbit/s
95th percentile per-packet one-way delay: 117.323 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 6.75 Mbit/s
95th percentile per-packet one-way delay: 117.291 ms
Loss rate: 0.00%
```

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



Run 5: Statistics of TaoVA-100x

Start at: 2017-12-06 00:24:44

End at: 2017-12-06 00:25:14

Below is generated by plot.py at 2017-12-06 03:08:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 60.69 Mbit/s

95th percentile per-packet one-way delay: 117.278 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 27.21 Mbit/s

95th percentile per-packet one-way delay: 117.302 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 49.33 Mbit/s

95th percentile per-packet one-way delay: 117.266 ms

Loss rate: 0.00%

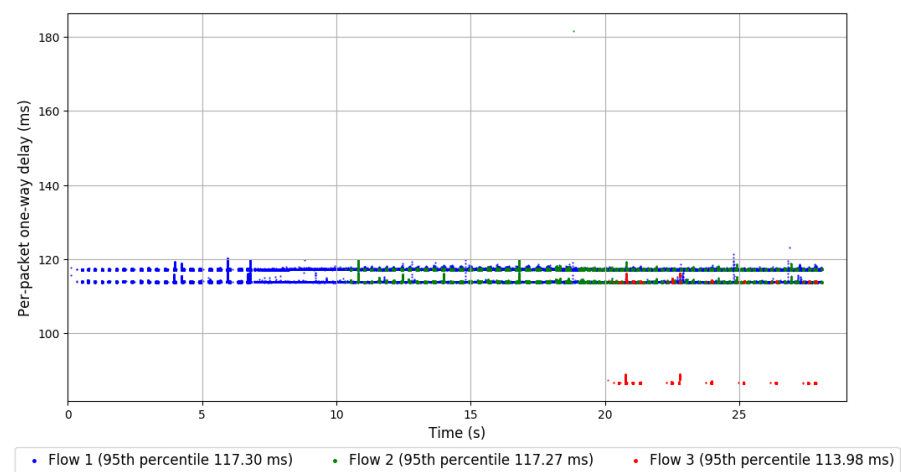
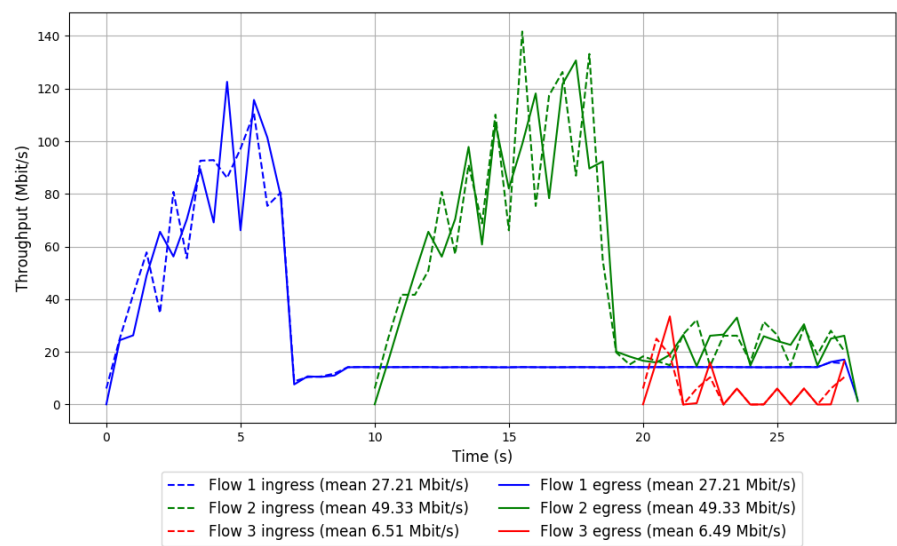
-- Flow 3:

Average throughput: 6.49 Mbit/s

95th percentile per-packet one-way delay: 113.976 ms

Loss rate: 0.00%

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



Run 6: Statistics of TaoVA-100x

Start at: 2017-12-06 00:37:33

End at: 2017-12-06 00:38:03

Below is generated by plot.py at 2017-12-06 03:08:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 48.78 Mbit/s

95th percentile per-packet one-way delay: 117.313 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 18.72 Mbit/s

95th percentile per-packet one-way delay: 117.275 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 13.76 Mbit/s

95th percentile per-packet one-way delay: 117.343 ms

Loss rate: 0.00%

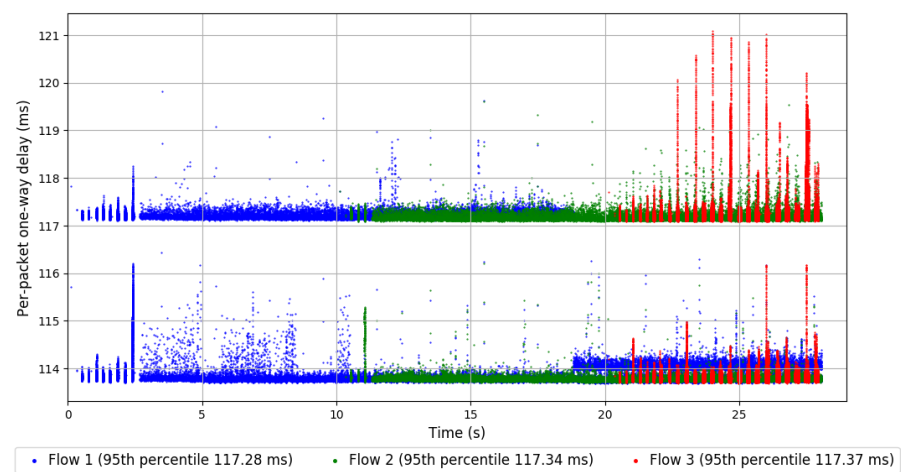
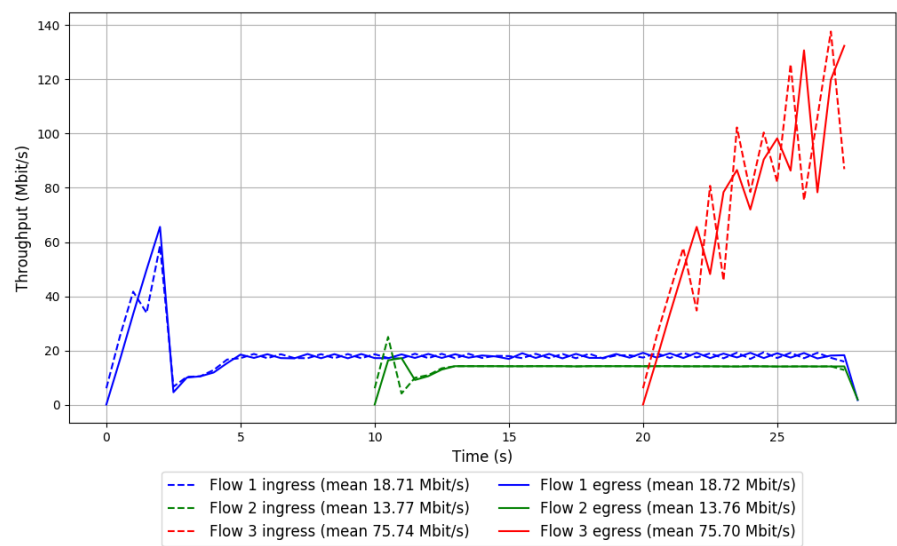
-- Flow 3:

Average throughput: 75.70 Mbit/s

95th percentile per-packet one-way delay: 117.367 ms

Loss rate: 0.00%

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

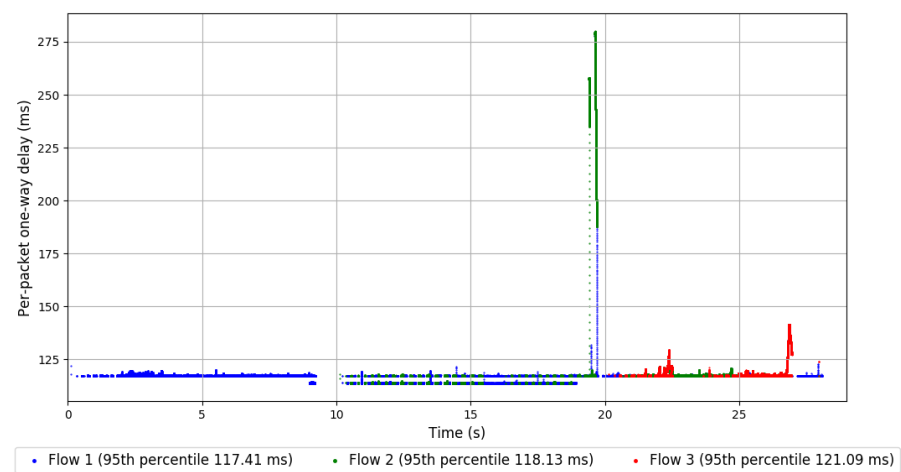
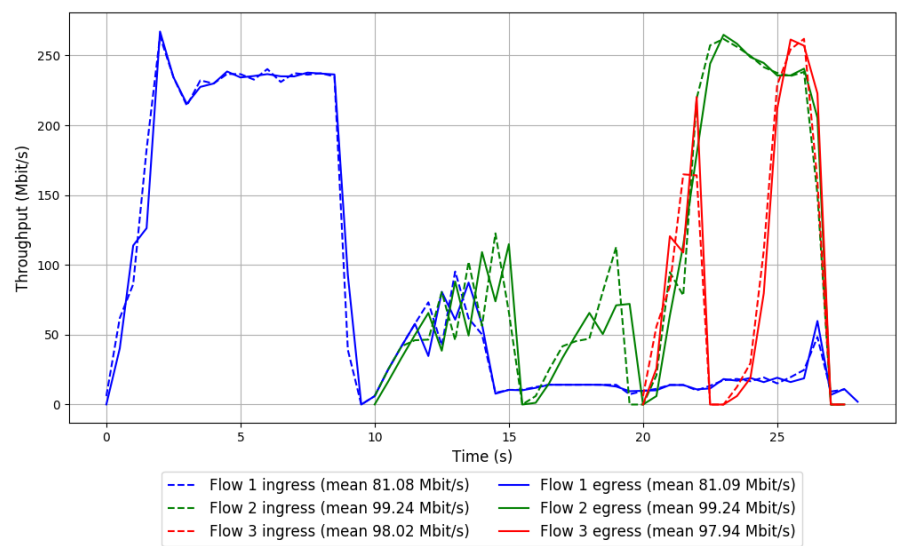


```
Run 7: Statistics of TaoVA-100x

Start at: 2017-12-06 00:50:13
End at: 2017-12-06 00:50:43

# Below is generated by plot.py at 2017-12-06 03:08:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 171.83 Mbit/s
95th percentile per-packet one-way delay: 117.773 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 81.09 Mbit/s
95th percentile per-packet one-way delay: 117.412 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 99.24 Mbit/s
95th percentile per-packet one-way delay: 118.134 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 97.94 Mbit/s
95th percentile per-packet one-way delay: 121.093 ms
Loss rate: 0.00%
```

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



Run 8: Statistics of TaoVA-100x

Start at: 2017-12-06 01:02:48

End at: 2017-12-06 01:03:18

Below is generated by plot.py at 2017-12-06 03:08:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 100.57 Mbit/s

95th percentile per-packet one-way delay: 114.281 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 15.23 Mbit/s

95th percentile per-packet one-way delay: 117.266 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 134.69 Mbit/s

95th percentile per-packet one-way delay: 114.178 ms

Loss rate: 0.00%

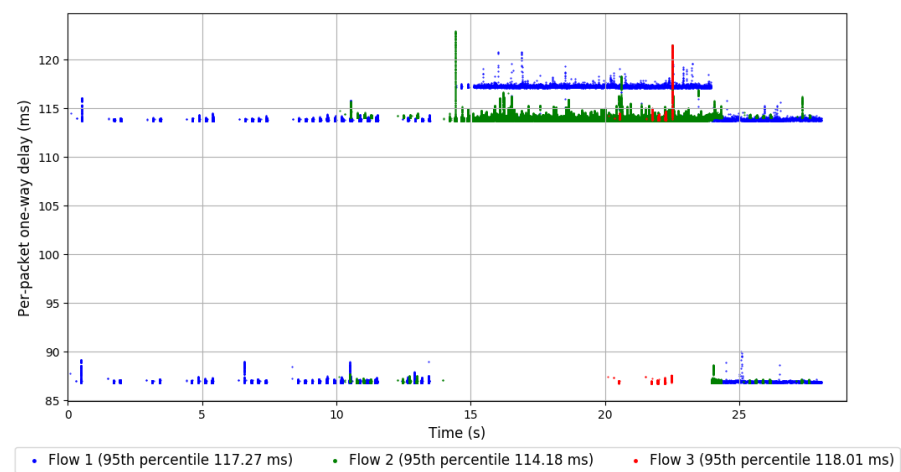
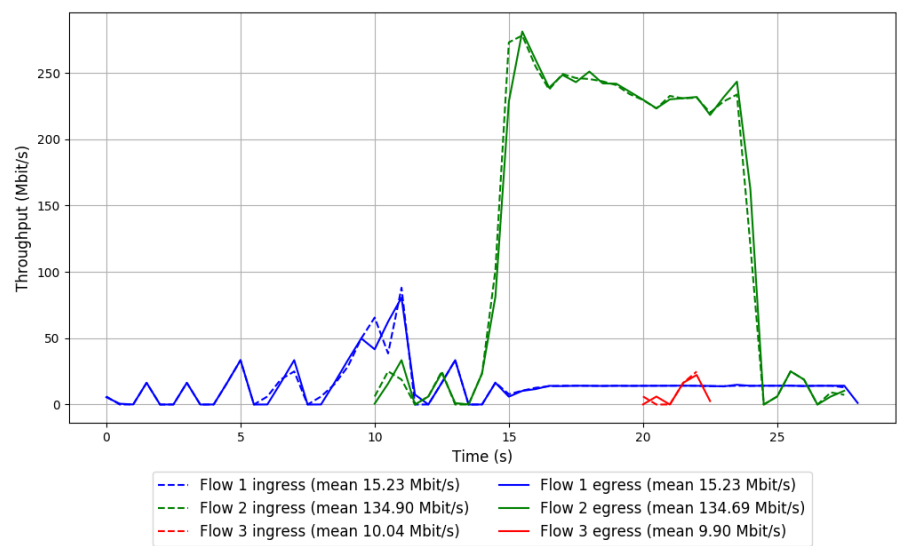
-- Flow 3:

Average throughput: 9.90 Mbit/s

95th percentile per-packet one-way delay: 118.011 ms

Loss rate: 0.00%

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

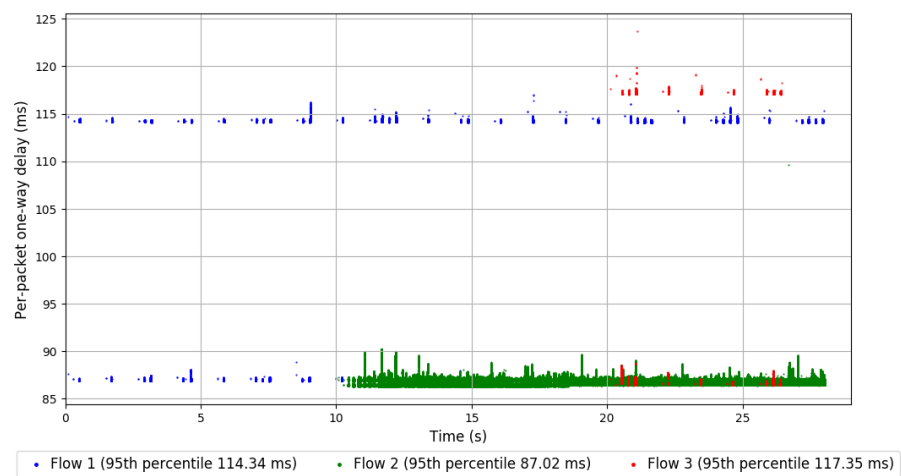
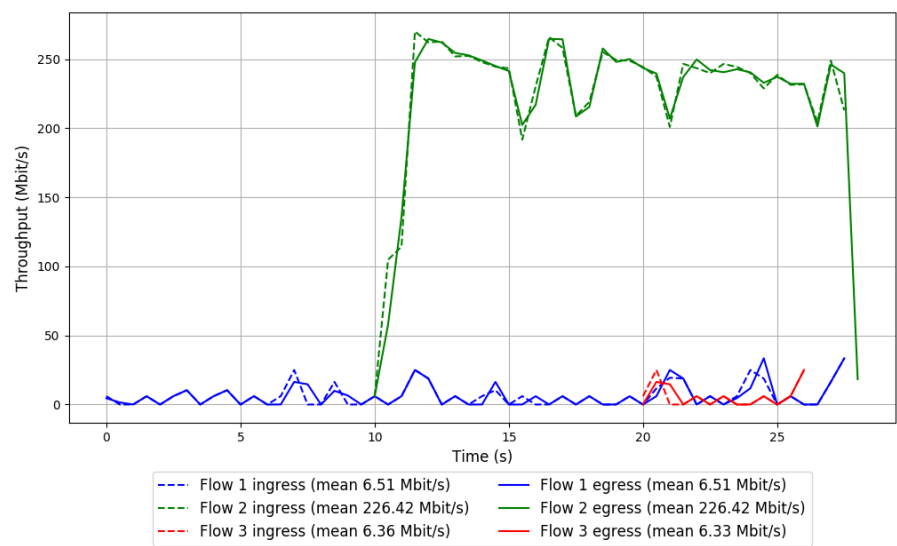


```
Run 9: Statistics of TaoVA-100x

Start at: 2017-12-06 01:15:23
End at: 2017-12-06 01:15:53

# Below is generated by plot.py at 2017-12-06 03:08:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 153.32 Mbit/s
95th percentile per-packet one-way delay: 87.229 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 6.51 Mbit/s
95th percentile per-packet one-way delay: 114.342 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 226.42 Mbit/s
95th percentile per-packet one-way delay: 87.018 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 6.33 Mbit/s
95th percentile per-packet one-way delay: 117.346 ms
Loss rate: 0.00%
```


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

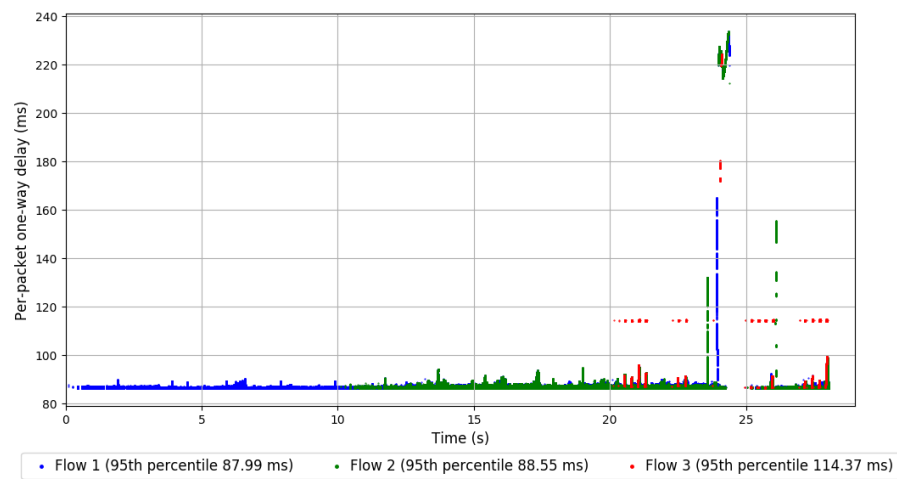
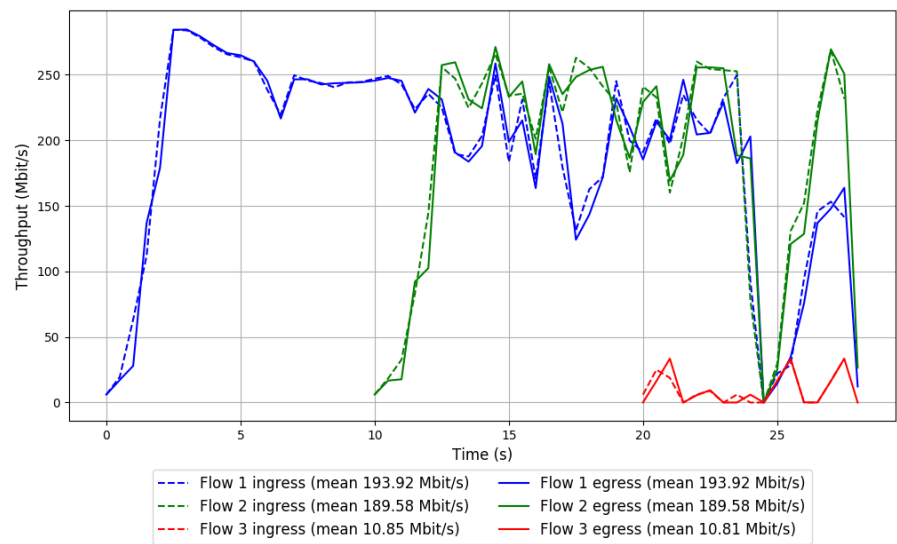


```
Run 10: Statistics of TaoVA-100x

Start at: 2017-12-06 01:28:09
End at: 2017-12-06 01:28:39

# Below is generated by plot.py at 2017-12-06 03:11:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 318.67 Mbit/s
95th percentile per-packet one-way delay: 88.349 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 193.92 Mbit/s
95th percentile per-packet one-way delay: 87.990 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 189.58 Mbit/s
95th percentile per-packet one-way delay: 88.554 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 10.81 Mbit/s
95th percentile per-packet one-way delay: 114.374 ms
Loss rate: 0.00%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2017-12-05 23:29:24

End at: 2017-12-05 23:29:54

Run 1: Report of TCP Vegas — Data Link

Figure is missing

Figure is missing

Run 2: Statistics of TCP Vegas

Start at: 2017-12-05 23:42:24

End at: 2017-12-05 23:42:54

Below is generated by plot.py at 2017-12-06 03:11:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 132.15 Mbit/s

95th percentile per-packet one-way delay: 93.834 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 89.56 Mbit/s

95th percentile per-packet one-way delay: 93.839 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 3.76 Mbit/s

95th percentile per-packet one-way delay: 92.613 ms

Loss rate: 0.14%

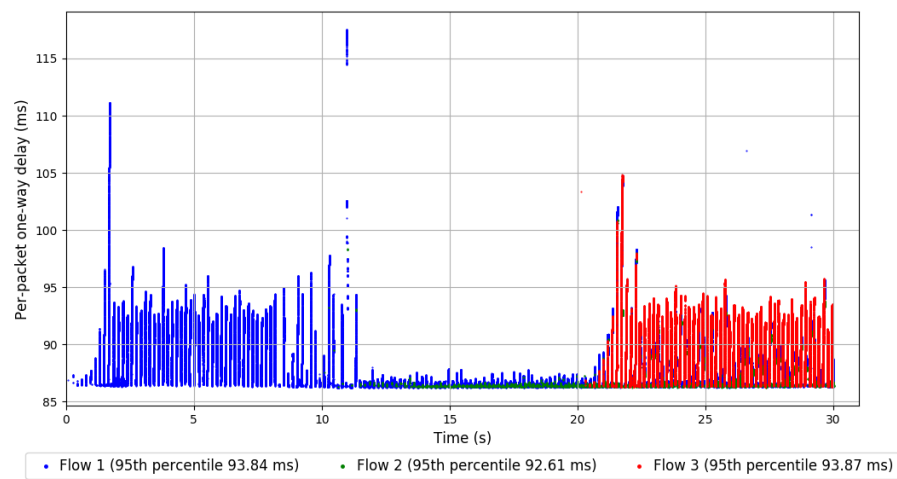
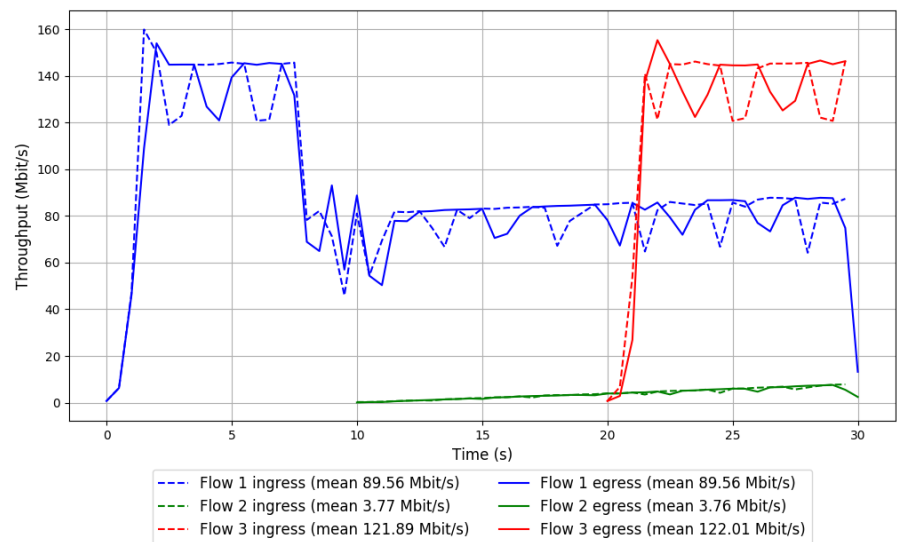
-- Flow 3:

Average throughput: 122.01 Mbit/s

95th percentile per-packet one-way delay: 93.866 ms

Loss rate: 0.00%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2017-12-05 23:55:32

End at: 2017-12-05 23:56:02

Run 3: Report of TCP Vegas — Data Link

Figure is missing

Figure is missing

Run 4: Statistics of TCP Vegas

Start at: 2017-12-06 00:07:51

End at: 2017-12-06 00:08:21

Below is generated by plot.py at 2017-12-06 03:11:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 29.08 Mbit/s

95th percentile per-packet one-way delay: 97.754 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 3.76 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 4.02 Mbit/s

95th percentile per-packet one-way delay: 89.808 ms

Loss rate: 0.00%

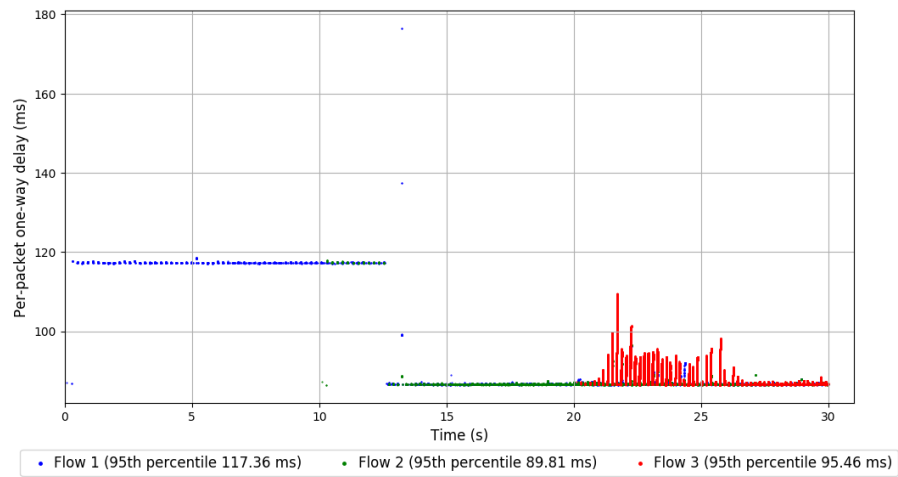
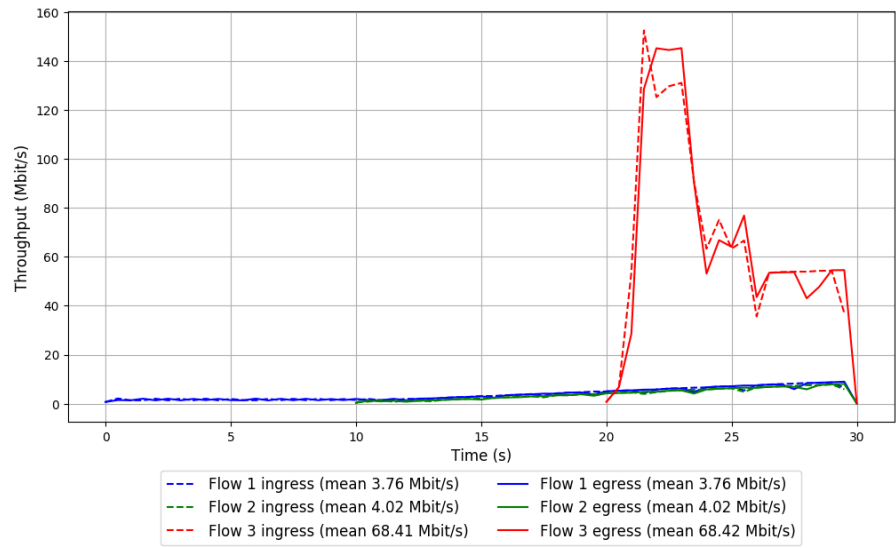
-- Flow 3:

Average throughput: 68.42 Mbit/s

95th percentile per-packet one-way delay: 95.460 ms

Loss rate: 0.00%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2017-12-06 00:20:39

End at: 2017-12-06 00:21:09

Below is generated by plot.py at 2017-12-06 03:11:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 2.27 Mbit/s

95th percentile per-packet one-way delay: 117.489 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.33 Mbit/s

95th percentile per-packet one-way delay: 117.474 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.95 Mbit/s

95th percentile per-packet one-way delay: 117.509 ms

Loss rate: 0.00%

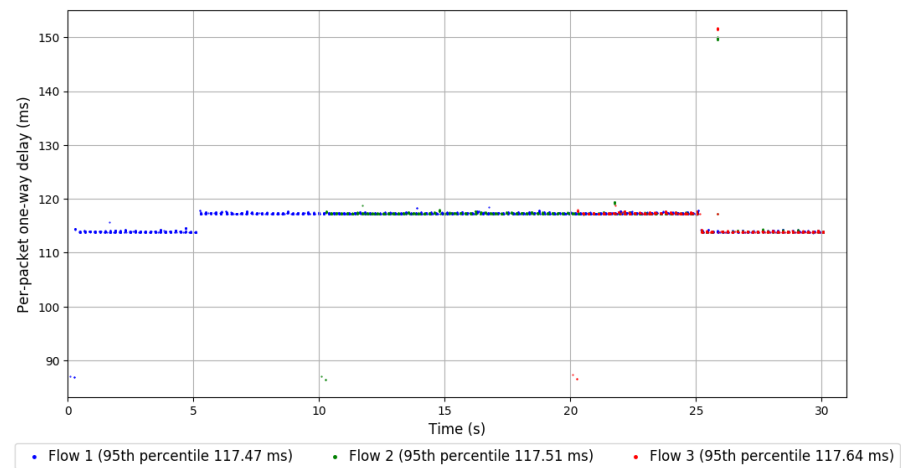
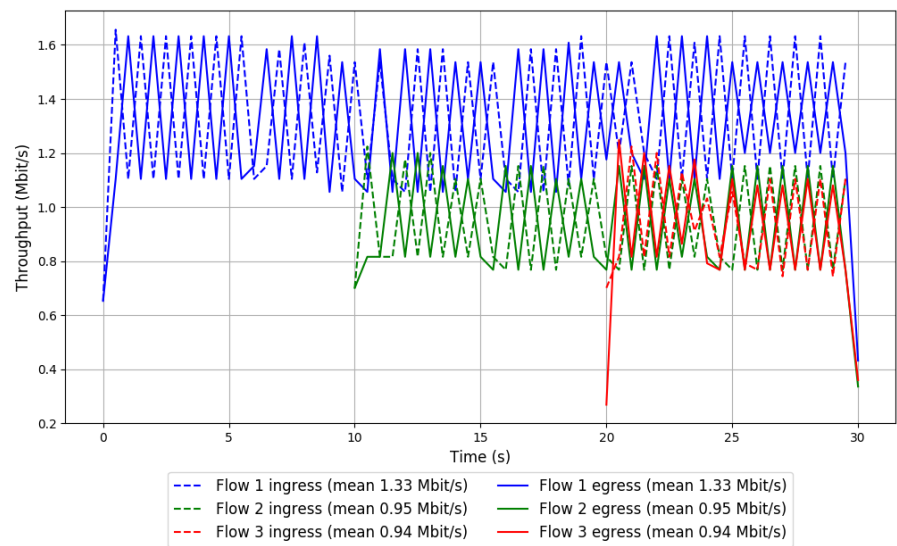
-- Flow 3:

Average throughput: 0.94 Mbit/s

95th percentile per-packet one-way delay: 117.640 ms

Loss rate: 0.00%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2017-12-06 00:33:25

End at: 2017-12-06 00:33:55

Below is generated by plot.py at 2017-12-06 03:11:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 49.90 Mbit/s

95th percentile per-packet one-way delay: 118.133 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 38.86 Mbit/s

95th percentile per-packet one-way delay: 117.654 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.06 Mbit/s

95th percentile per-packet one-way delay: 117.481 ms

Loss rate: 0.00%

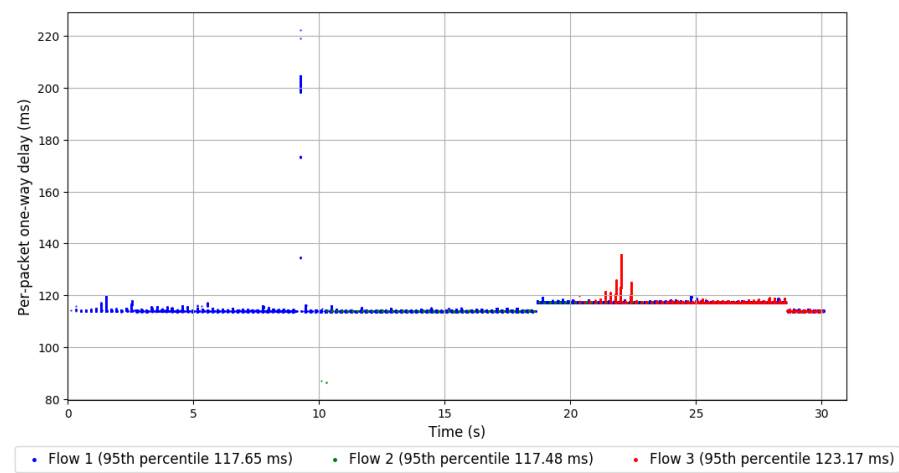
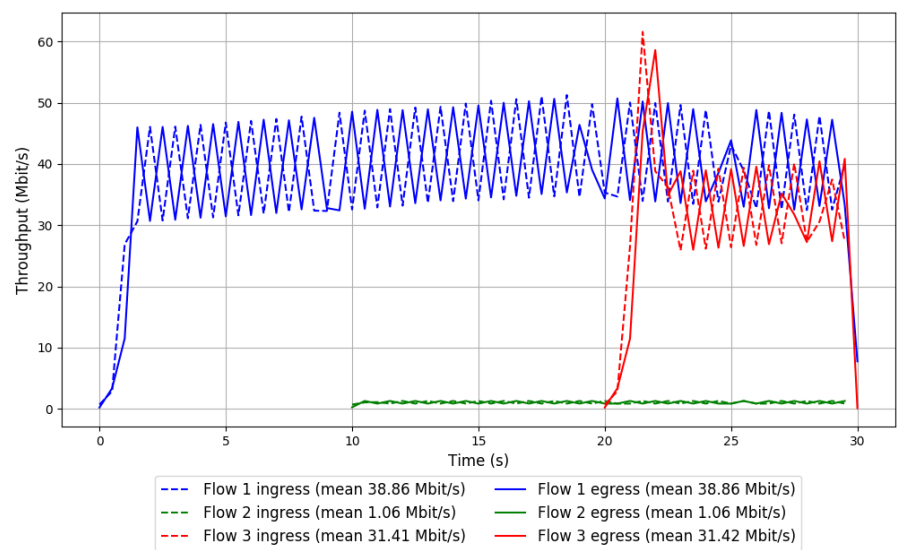
-- Flow 3:

Average throughput: 31.42 Mbit/s

95th percentile per-packet one-way delay: 123.166 ms

Loss rate: 0.00%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2017-12-06 00:46:02

End at: 2017-12-06 00:46:32

Below is generated by plot.py at 2017-12-06 03:11:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 127.17 Mbit/s

95th percentile per-packet one-way delay: 122.184 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 63.58 Mbit/s

95th percentile per-packet one-way delay: 117.516 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 67.67 Mbit/s

95th percentile per-packet one-way delay: 121.012 ms

Loss rate: 0.00%

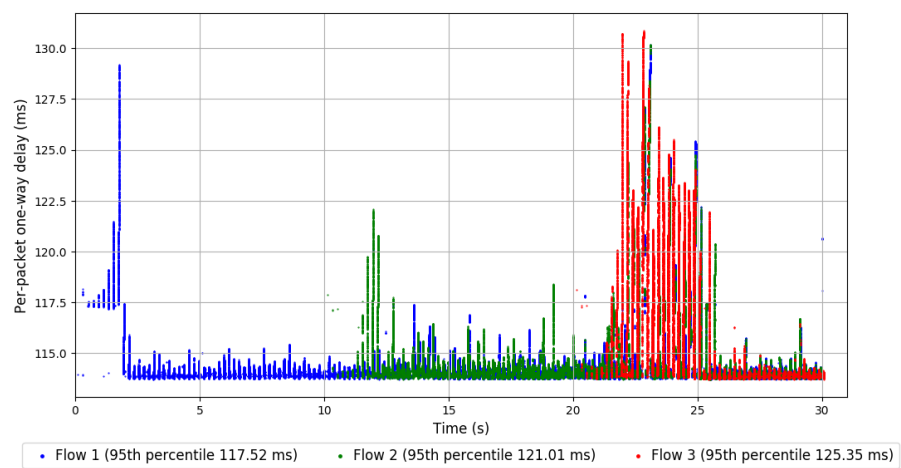
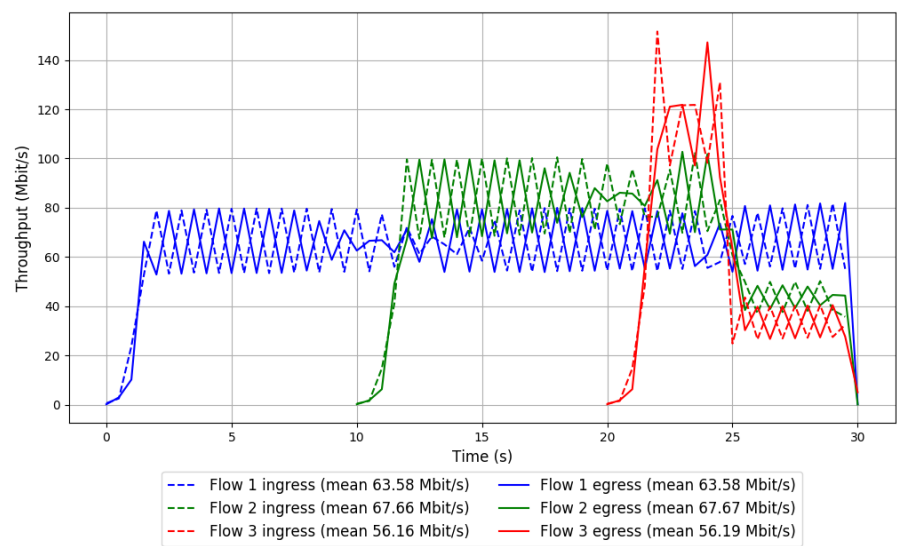
-- Flow 3:

Average throughput: 56.19 Mbit/s

95th percentile per-packet one-way delay: 125.346 ms

Loss rate: 0.00%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2017-12-06 00:58:39

End at: 2017-12-06 00:59:09

Below is generated by plot.py at 2017-12-06 03:11:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 160.97 Mbit/s

95th percentile per-packet one-way delay: 118.481 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 109.15 Mbit/s

95th percentile per-packet one-way delay: 117.728 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 51.32 Mbit/s

95th percentile per-packet one-way delay: 119.528 ms

Loss rate: 0.00%

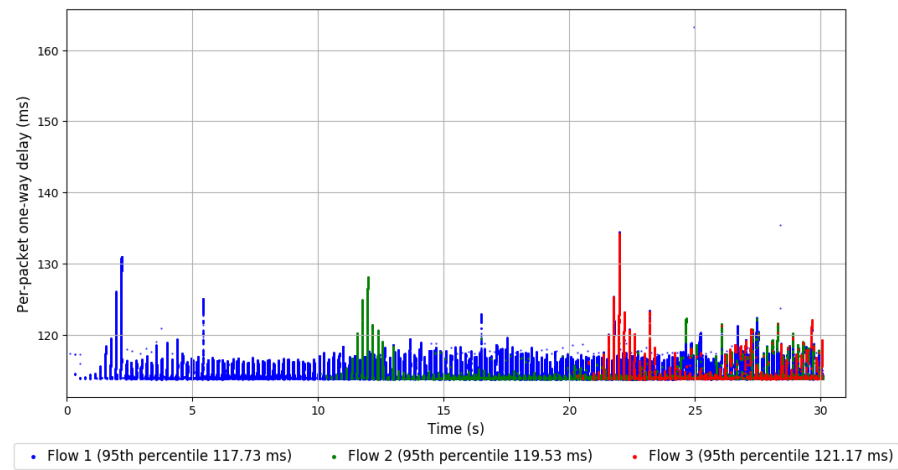
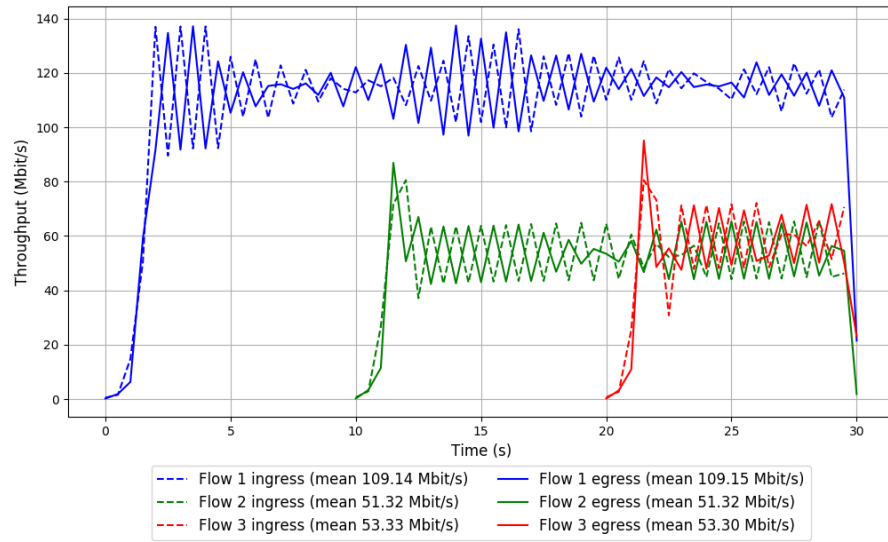
-- Flow 3:

Average throughput: 53.30 Mbit/s

95th percentile per-packet one-way delay: 121.171 ms

Loss rate: 0.00%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2017-12-06 01:11:19

End at: 2017-12-06 01:11:49

Below is generated by plot.py at 2017-12-06 03:11:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 112.47 Mbit/s

95th percentile per-packet one-way delay: 114.065 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 49.47 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 55.15 Mbit/s

95th percentile per-packet one-way delay: 114.177 ms

Loss rate: 0.00%

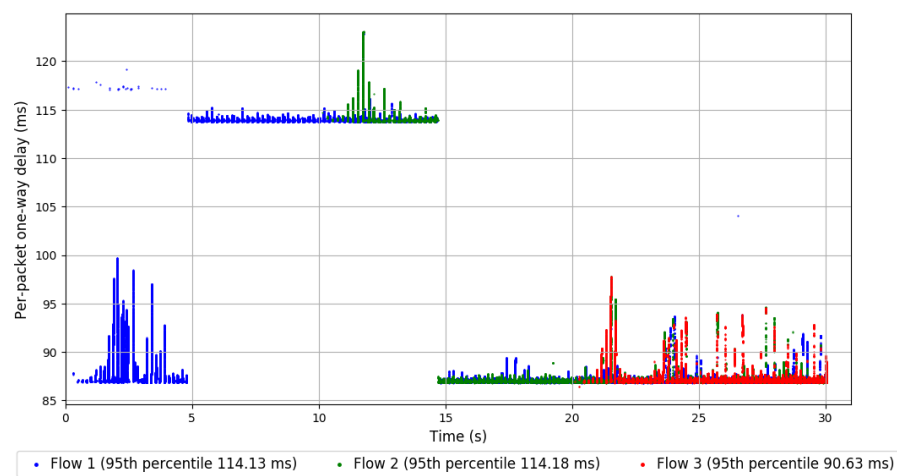
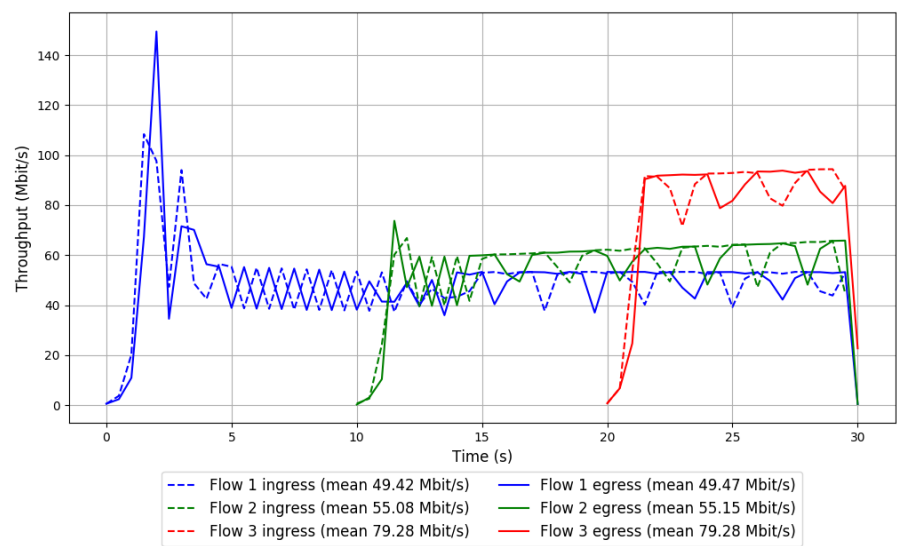
-- Flow 3:

Average throughput: 79.28 Mbit/s

95th percentile per-packet one-way delay: 90.631 ms

Loss rate: 0.00%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2017-12-06 01:24:05

End at: 2017-12-06 01:24:35

Below is generated by plot.py at 2017-12-06 03:11:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 142.70 Mbit/s

95th percentile per-packet one-way delay: 90.290 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 100.83 Mbit/s

95th percentile per-packet one-way delay: 90.044 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 49.96 Mbit/s

95th percentile per-packet one-way delay: 92.314 ms

Loss rate: 0.00%

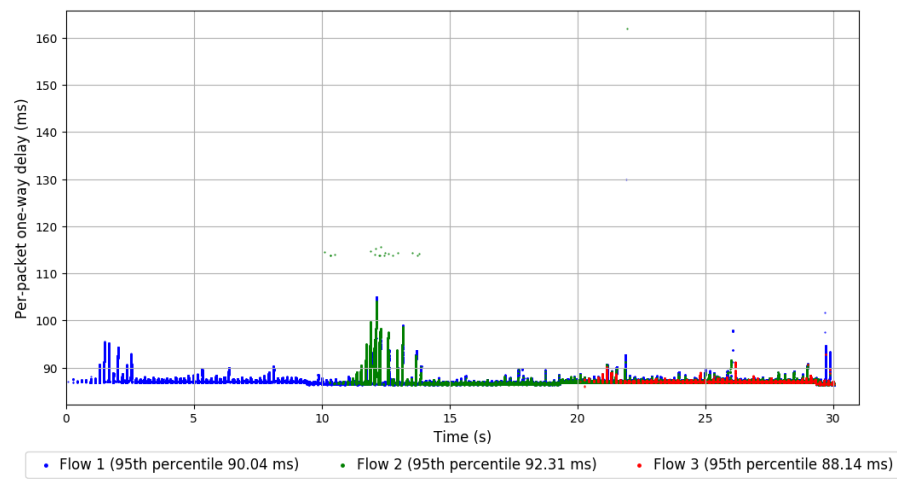
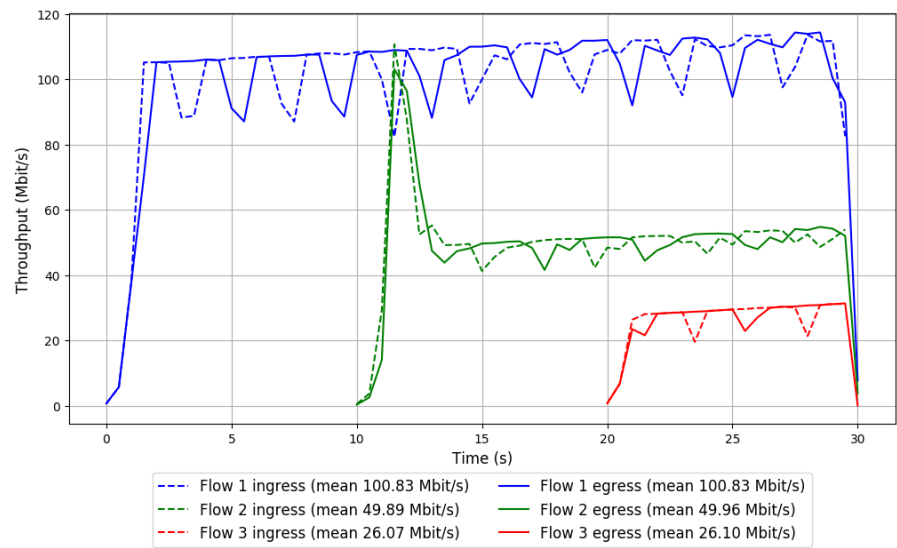
-- Flow 3:

Average throughput: 26.10 Mbit/s

95th percentile per-packet one-way delay: 88.138 ms

Loss rate: 0.00%

Run 10: Report of TCP Vegas — Data Link

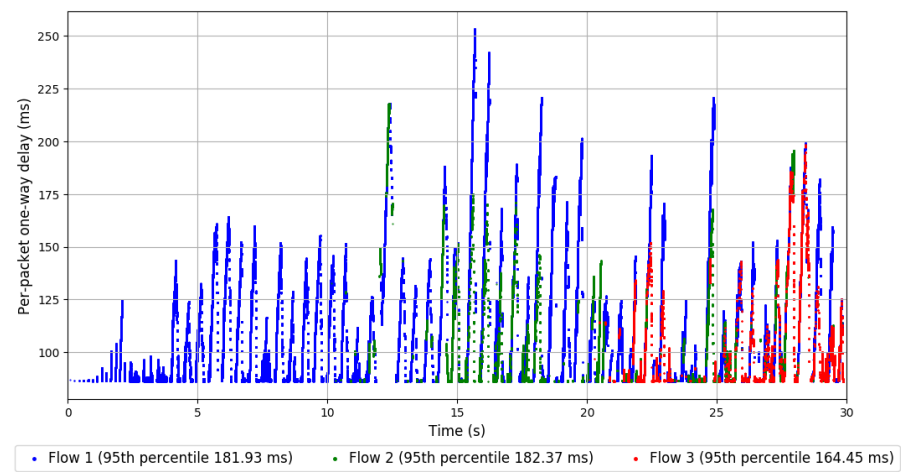
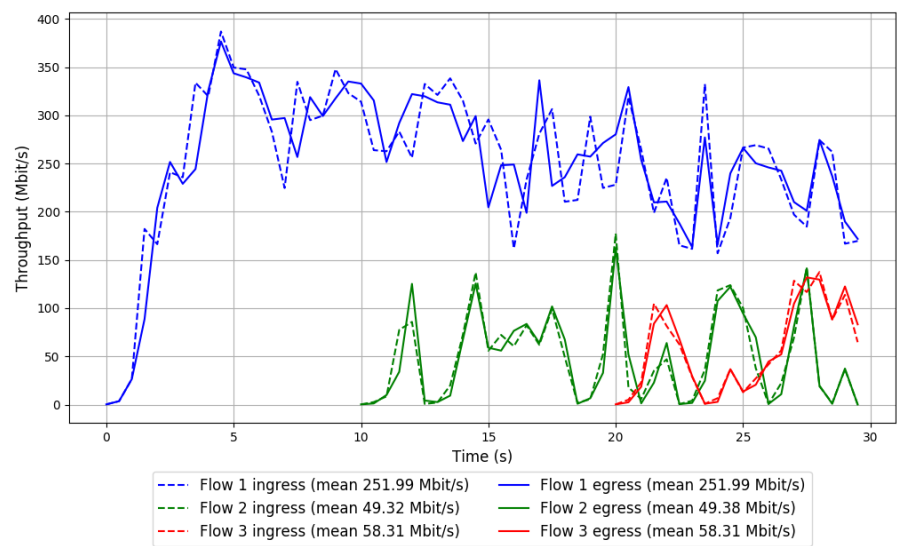


```
Run 1: Statistics of Verus

Start at: 2017-12-05 23:37:22
End at: 2017-12-05 23:37:52

# Below is generated by plot.py at 2017-12-06 03:11:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 303.70 Mbit/s
95th percentile per-packet one-way delay: 181.146 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 251.99 Mbit/s
95th percentile per-packet one-way delay: 181.930 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 49.38 Mbit/s
95th percentile per-packet one-way delay: 182.371 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 58.31 Mbit/s
95th percentile per-packet one-way delay: 164.454 ms
Loss rate: 0.00%
```


Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2017-12-05 23:50:34

End at: 2017-12-05 23:51:04

Below is generated by plot.py at 2017-12-06 03:11:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 243.79 Mbit/s

95th percentile per-packet one-way delay: 187.111 ms

Loss rate: 1.65%

-- Flow 1:

Average throughput: 160.91 Mbit/s

95th percentile per-packet one-way delay: 184.668 ms

Loss rate: 2.27%

-- Flow 2:

Average throughput: 55.59 Mbit/s

95th percentile per-packet one-way delay: 273.800 ms

Loss rate: 0.78%

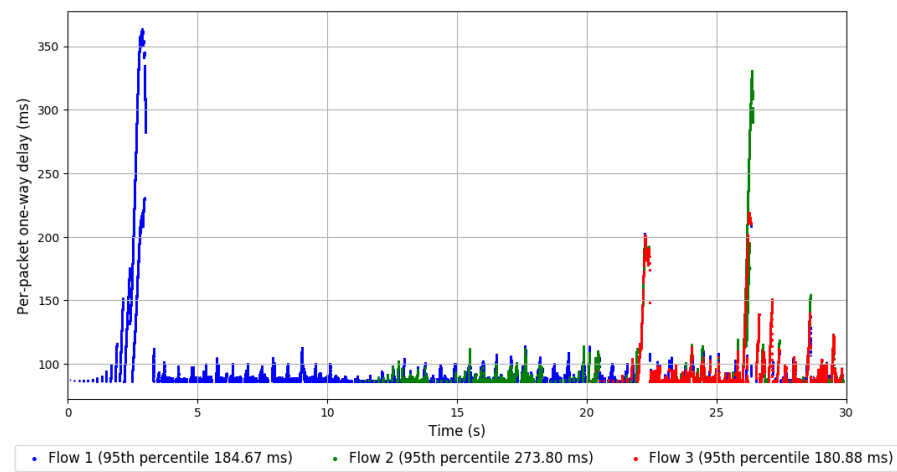
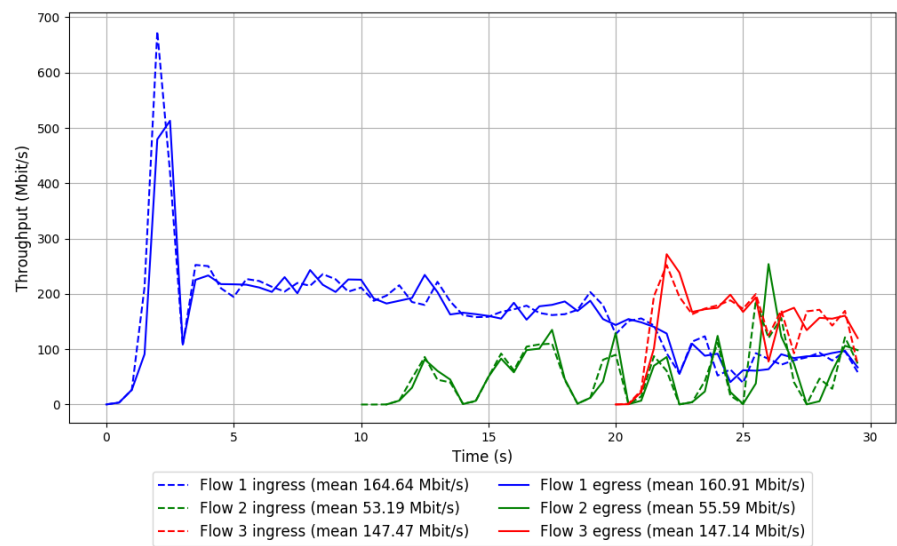
-- Flow 3:

Average throughput: 147.14 Mbit/s

95th percentile per-packet one-way delay: 180.876 ms

Loss rate: 0.18%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2017-12-06 00:03:03

End at: 2017-12-06 00:03:33

Below is generated by plot.py at 2017-12-06 03:11:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 278.93 Mbit/s

95th percentile per-packet one-way delay: 190.096 ms

Loss rate: 0.47%

-- Flow 1:

Average throughput: 212.55 Mbit/s

95th percentile per-packet one-way delay: 194.338 ms

Loss rate: 0.22%

-- Flow 2:

Average throughput: 81.20 Mbit/s

95th percentile per-packet one-way delay: 181.958 ms

Loss rate: 0.56%

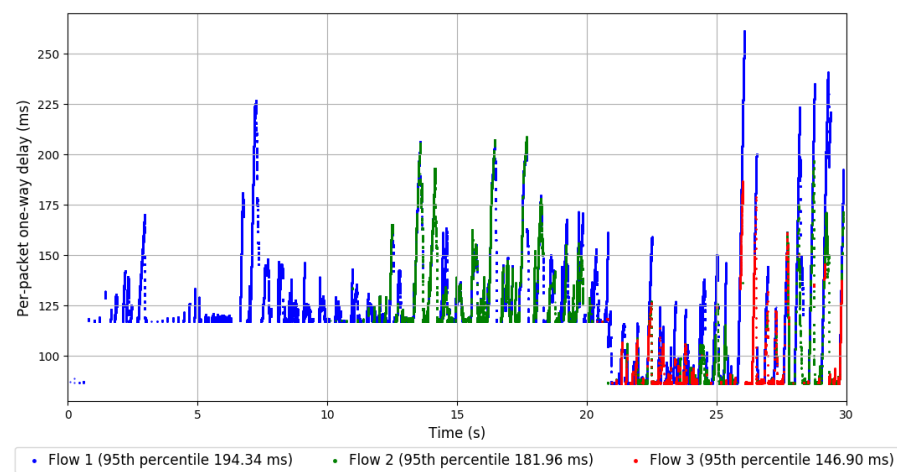
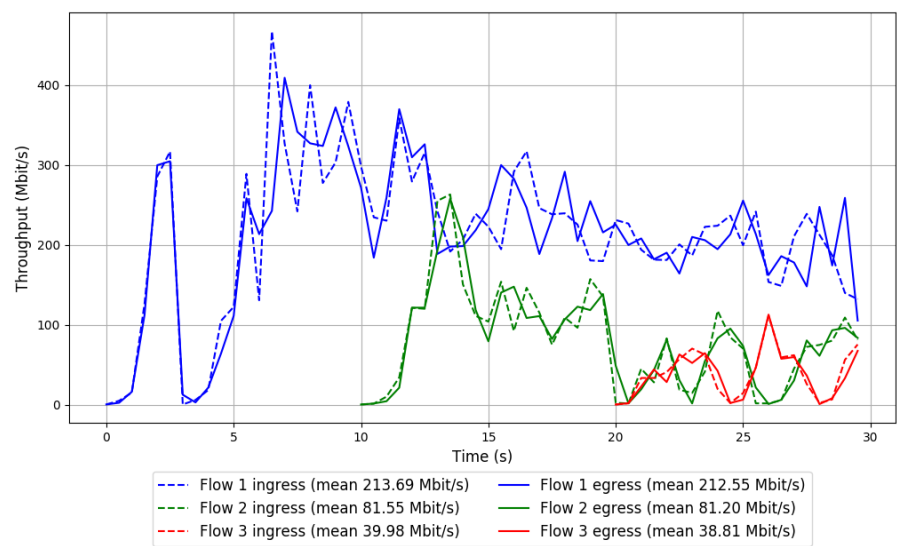
-- Flow 3:

Average throughput: 38.81 Mbit/s

95th percentile per-packet one-way delay: 146.900 ms

Loss rate: 3.99%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2017-12-06 00:15:34

End at: 2017-12-06 00:16:04

Below is generated by plot.py at 2017-12-06 03:11:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 206.63 Mbit/s

95th percentile per-packet one-way delay: 149.114 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 84.96 Mbit/s

95th percentile per-packet one-way delay: 143.175 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 165.83 Mbit/s

95th percentile per-packet one-way delay: 151.086 ms

Loss rate: 0.09%

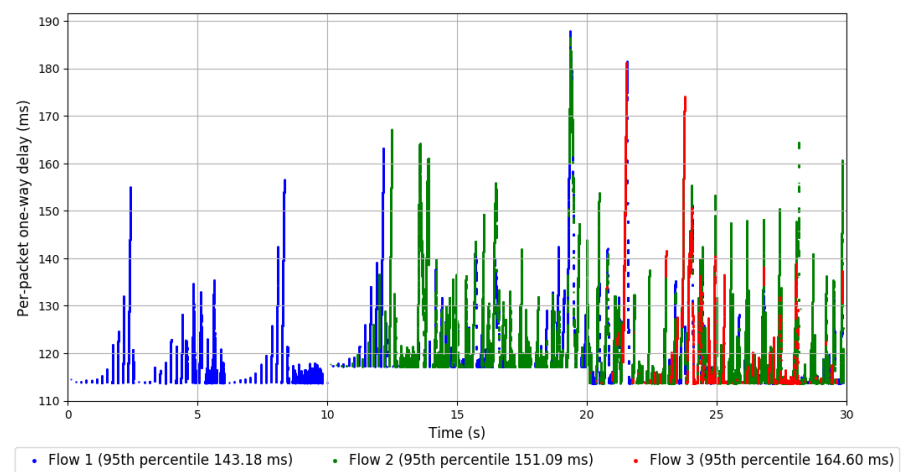
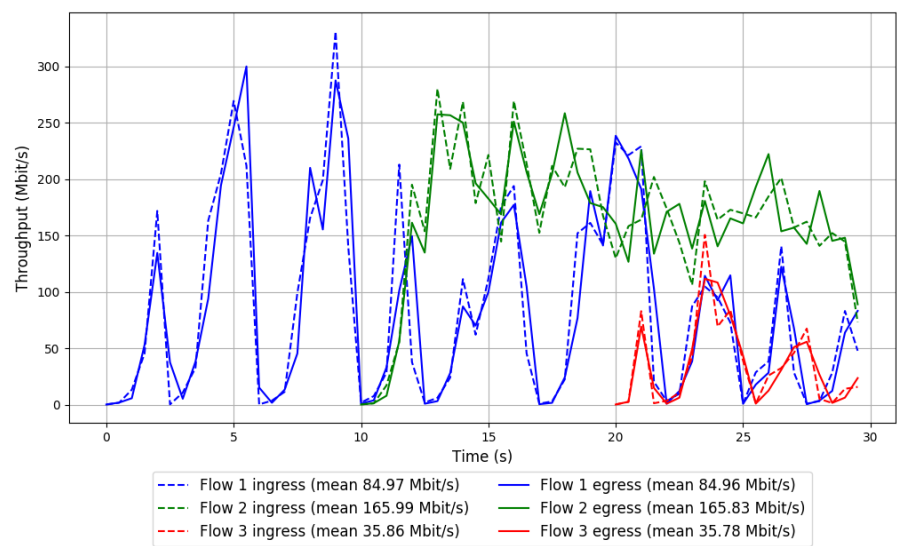
-- Flow 3:

Average throughput: 35.78 Mbit/s

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

Loss rate: 0.00%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2017-12-06 00:28:22

End at: 2017-12-06 00:28:52

Below is generated by plot.py at 2017-12-06 03:11:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 287.77 Mbit/s

95th percentile per-packet one-way delay: 243.115 ms

Loss rate: 3.80%

-- Flow 1:

Average throughput: 183.94 Mbit/s

95th percentile per-packet one-way delay: 225.080 ms

Loss rate: 2.70%

-- Flow 2:

Average throughput: 109.06 Mbit/s

95th percentile per-packet one-way delay: 203.762 ms

Loss rate: 1.99%

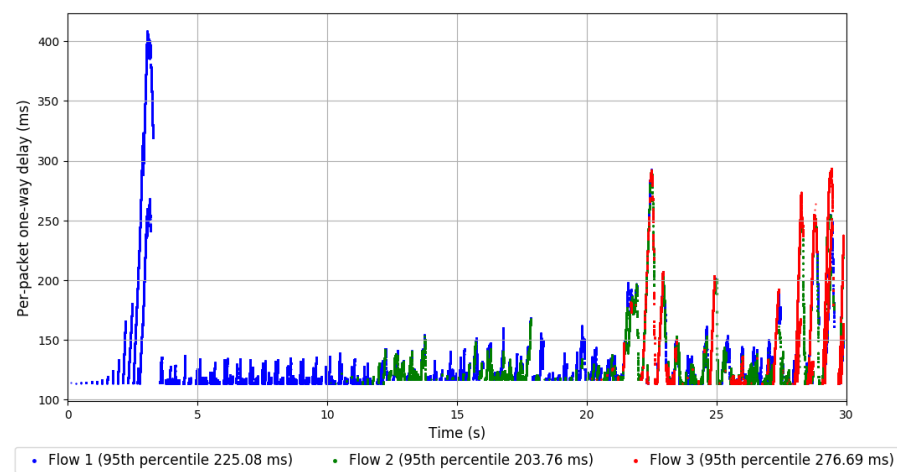
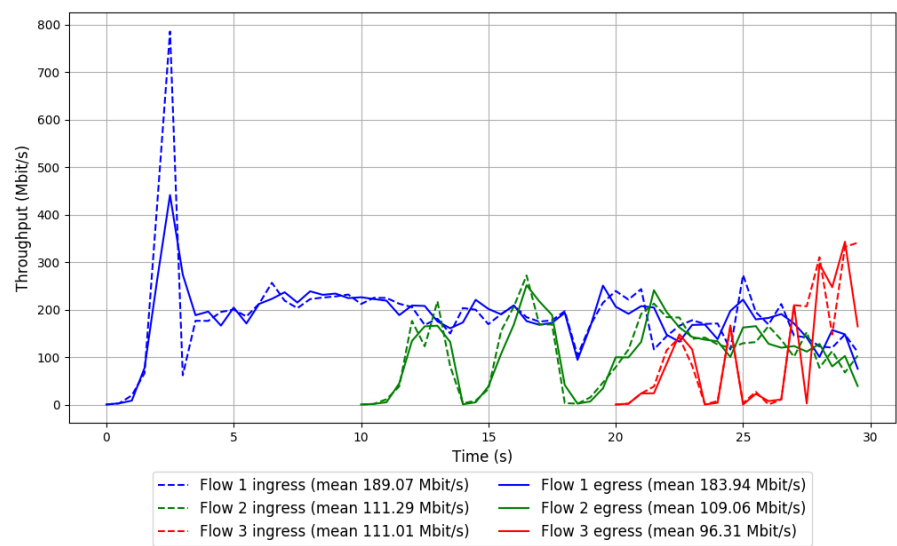
-- Flow 3:

Average throughput: 96.31 Mbit/s

95th percentile per-packet one-way delay: 276.690 ms

Loss rate: 13.25%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2017-12-06 00:41:05

End at: 2017-12-06 00:41:35

Below is generated by plot.py at 2017-12-06 03:11:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 201.25 Mbit/s

95th percentile per-packet one-way delay: 233.680 ms

Loss rate: 4.56%

-- Flow 1:

Average throughput: 78.69 Mbit/s

95th percentile per-packet one-way delay: 165.069 ms

Loss rate: 1.36%

-- Flow 2:

Average throughput: 160.99 Mbit/s

95th percentile per-packet one-way delay: 333.360 ms

Loss rate: 7.04%

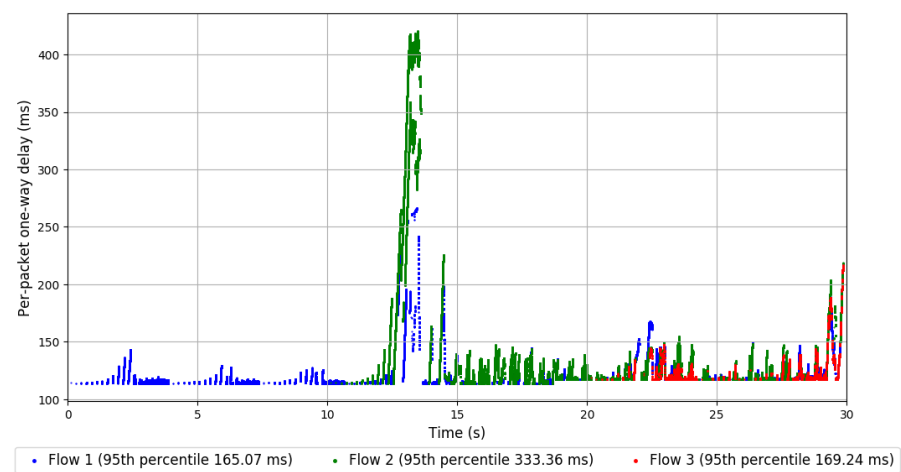
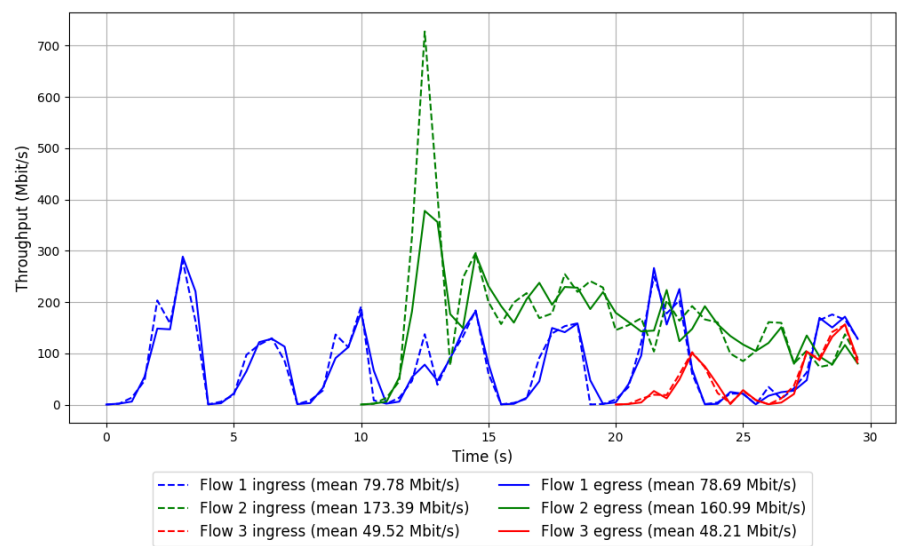
-- Flow 3:

Average throughput: 48.21 Mbit/s

95th percentile per-packet one-way delay: 169.237 ms

Loss rate: 2.72%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2017-12-06 00:53:54

End at: 2017-12-06 00:54:24

Below is generated by plot.py at 2017-12-06 03:11:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 213.88 Mbit/s

95th percentile per-packet one-way delay: 164.371 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 152.68 Mbit/s

95th percentile per-packet one-way delay: 170.870 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 57.47 Mbit/s

95th percentile per-packet one-way delay: 149.573 ms

Loss rate: 0.00%

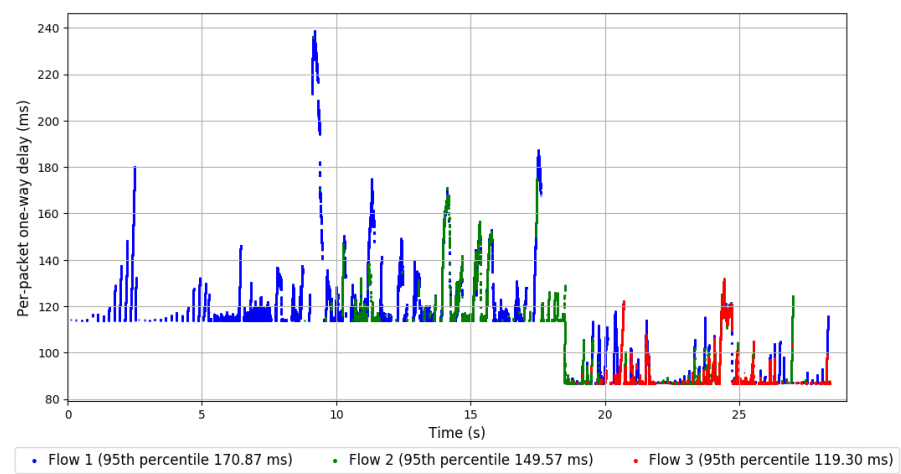
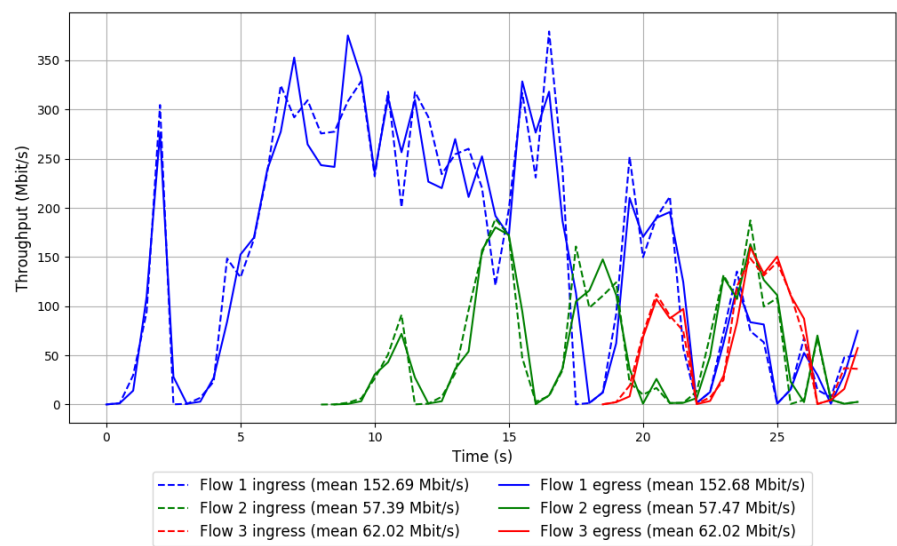
-- Flow 3:

Average throughput: 62.02 Mbit/s

95th percentile per-packet one-way delay: 119.299 ms

Loss rate: 0.00%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2017-12-06 01:06:25

End at: 2017-12-06 01:06:55

Below is generated by plot.py at 2017-12-06 03:14:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 297.14 Mbit/s

95th percentile per-packet one-way delay: 260.922 ms

Loss rate: 1.98%

-- Flow 1:

Average throughput: 184.73 Mbit/s

95th percentile per-packet one-way delay: 247.539 ms

Loss rate: 1.27%

-- Flow 2:

Average throughput: 160.39 Mbit/s

95th percentile per-packet one-way delay: 277.289 ms

Loss rate: 3.20%

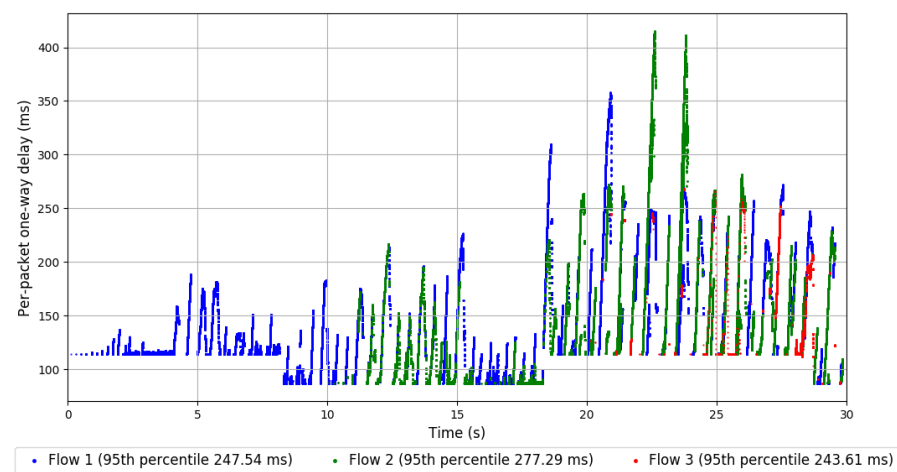
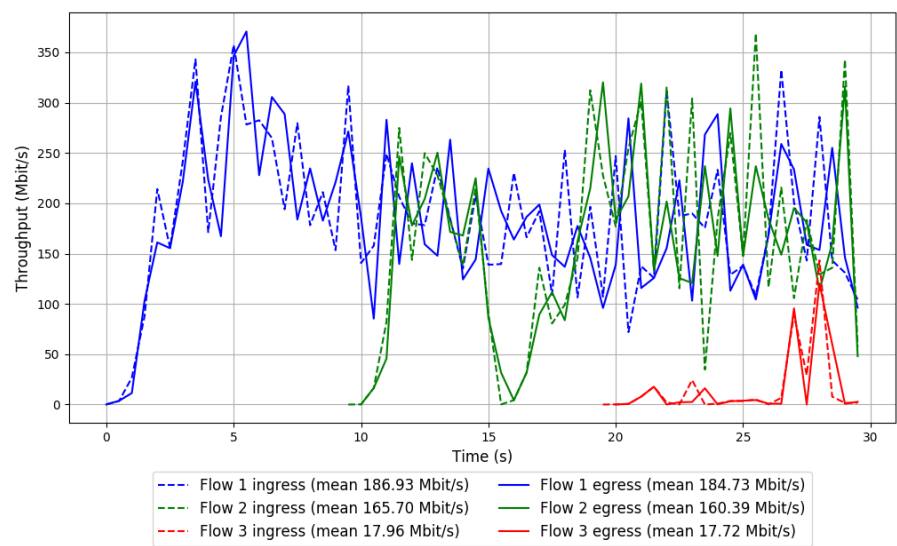
-- Flow 3:

Average throughput: 17.72 Mbit/s

95th percentile per-packet one-way delay: 243.614 ms

Loss rate: 1.73%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2017-12-06 01:19:09

End at: 2017-12-06 01:19:39

Below is generated by plot.py at 2017-12-06 03:15:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 307.13 Mbit/s

95th percentile per-packet one-way delay: 156.099 ms

Loss rate: 0.15%

-- Flow 1:

Average throughput: 227.81 Mbit/s

95th percentile per-packet one-way delay: 149.403 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 97.31 Mbit/s

95th percentile per-packet one-way delay: 169.009 ms

Loss rate: 0.32%

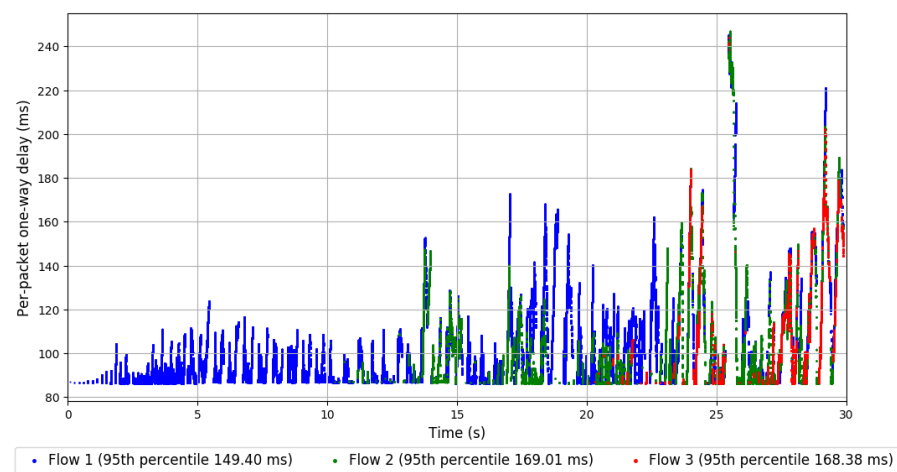
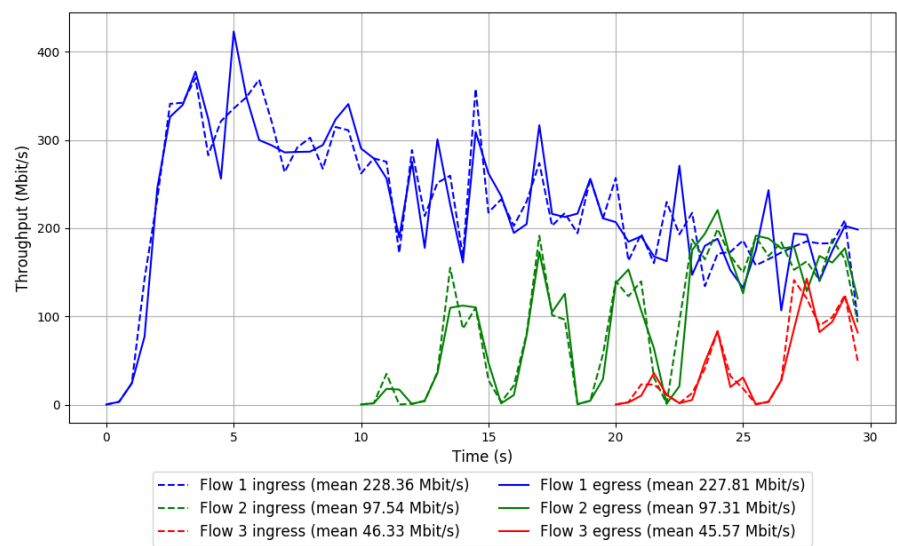
-- Flow 3:

Average throughput: 45.57 Mbit/s

95th percentile per-packet one-way delay: 168.377 ms

Loss rate: 1.62%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2017-12-06 01:32:08

End at: 2017-12-06 01:32:38

Below is generated by plot.py at 2017-12-06 03:15:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 191.20 Mbit/s

95th percentile per-packet one-way delay: 236.182 ms

Loss rate: 1.87%

-- Flow 1:

Average throughput: 130.27 Mbit/s

95th percentile per-packet one-way delay: 185.283 ms

Loss rate: 0.57%

-- Flow 2:

Average throughput: 70.75 Mbit/s

95th percentile per-packet one-way delay: 281.908 ms

Loss rate: 2.39%

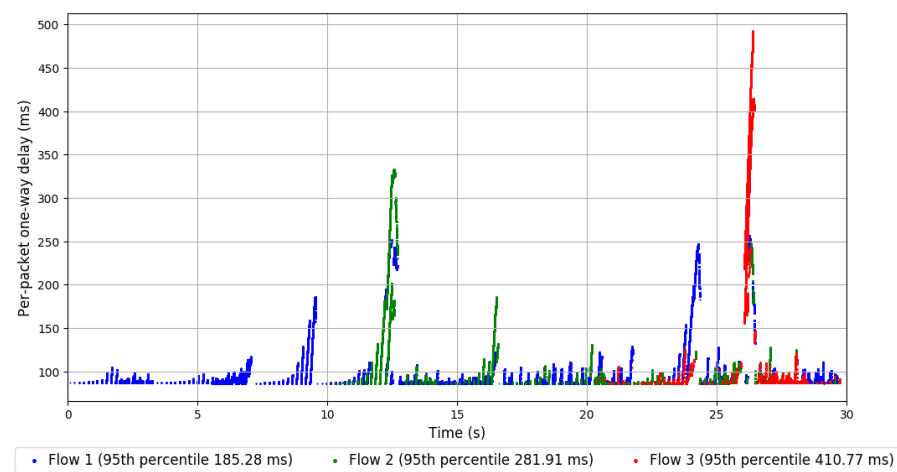
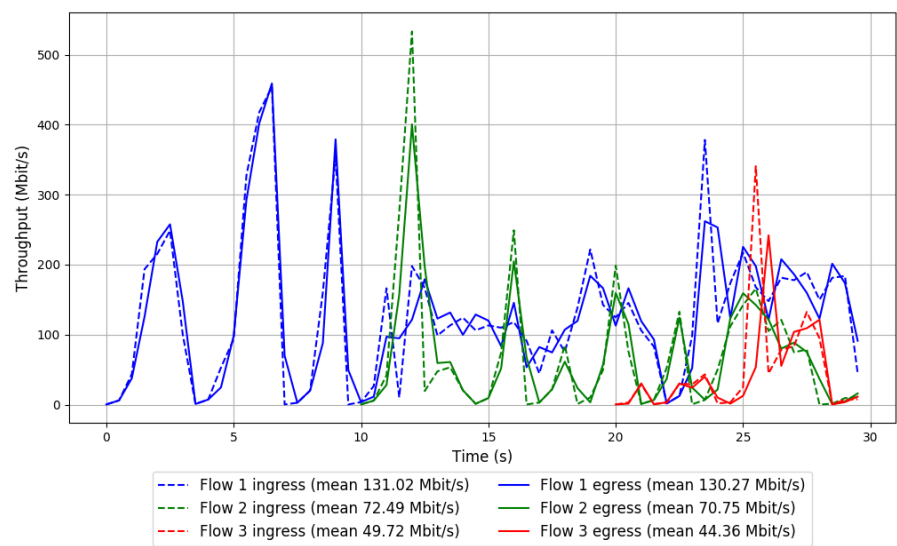
-- Flow 3:

Average throughput: 44.36 Mbit/s

95th percentile per-packet one-way delay: 410.771 ms

Loss rate: 10.82%

Run 10: Report of Verus — Data Link

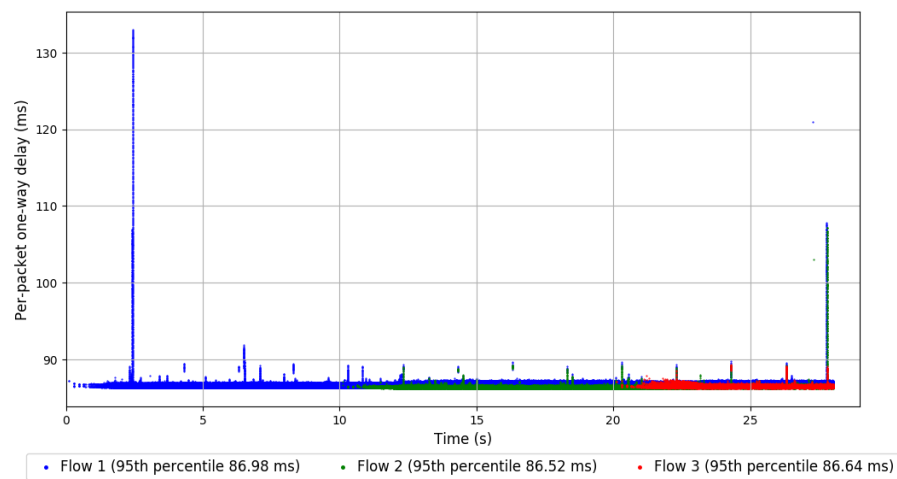
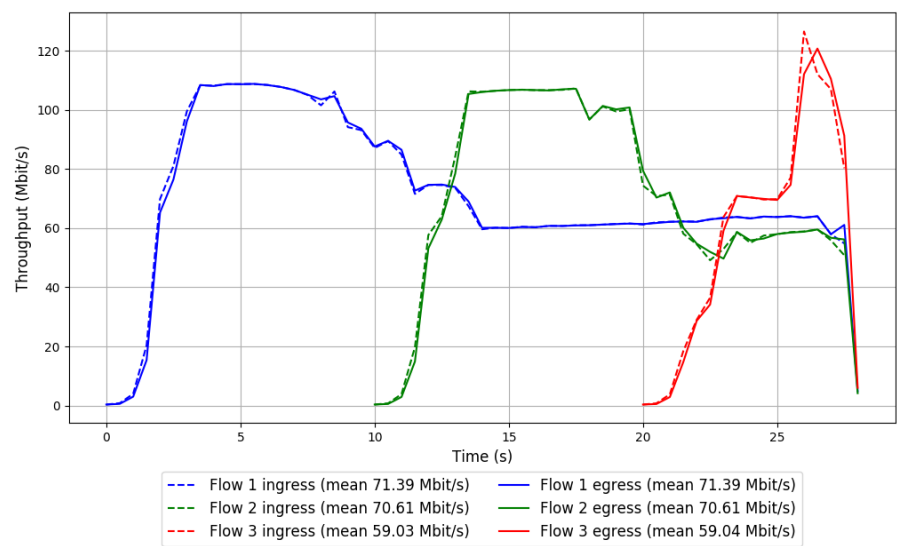


```
Run 1: Statistics of Copa

Start at: 2017-12-05 23:34:30
End at: 2017-12-05 23:35:00

# Below is generated by plot.py at 2017-12-06 03:15:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 133.46 Mbit/s
95th percentile per-packet one-way delay: 86.899 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 71.39 Mbit/s
95th percentile per-packet one-way delay: 86.977 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 70.61 Mbit/s
95th percentile per-packet one-way delay: 86.515 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 59.04 Mbit/s
95th percentile per-packet one-way delay: 86.637 ms
Loss rate: 0.00%
```

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2017-12-05 23:47:43

End at: 2017-12-05 23:48:13

Below is generated by plot.py at 2017-12-06 03:15:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 121.55 Mbit/s

95th percentile per-packet one-way delay: 86.863 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 75.42 Mbit/s

95th percentile per-packet one-way delay: 86.654 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 54.85 Mbit/s

95th percentile per-packet one-way delay: 86.974 ms

Loss rate: 0.00%

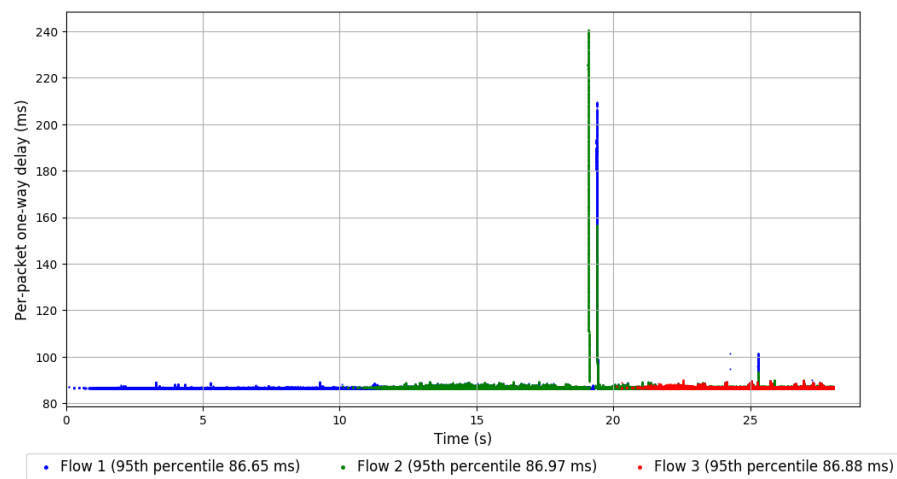
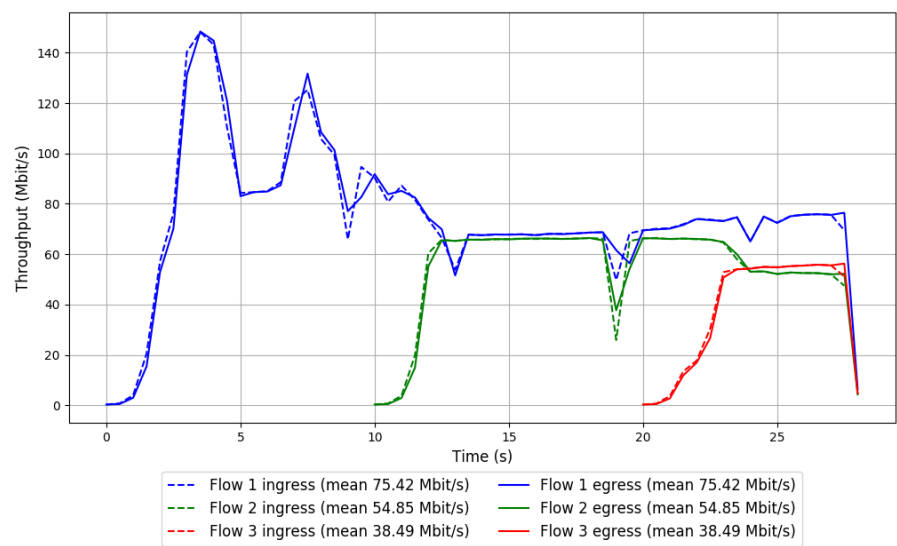
-- Flow 3:

Average throughput: 38.49 Mbit/s

95th percentile per-packet one-way delay: 86.881 ms

Loss rate: 0.00%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2017-12-06 00:00:24

End at: 2017-12-06 00:00:54

Below is generated by plot.py at 2017-12-06 03:15:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 80.18 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 51.06 Mbit/s

95th percentile per-packet one-way delay: 117.330 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 7.44 Mbit/s

95th percentile per-packet one-way delay: 117.265 ms

Loss rate: 0.00%

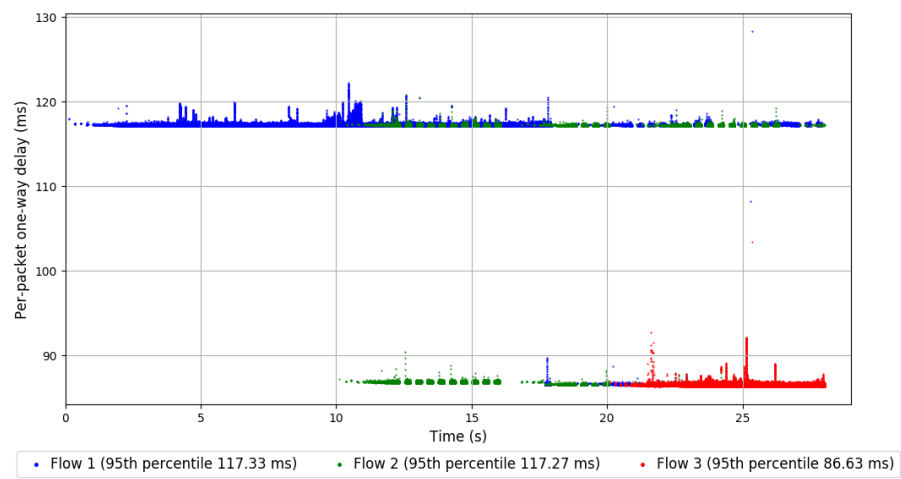
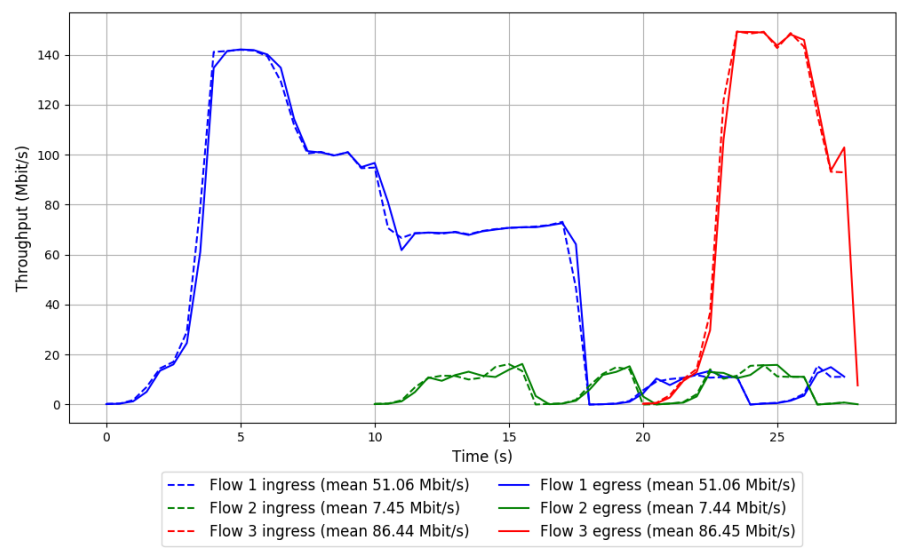
-- Flow 3:

Average throughput: 86.45 Mbit/s

95th percentile per-packet one-way delay: 86.629 ms

Loss rate: 0.00%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2017-12-06 00:12:46

End at: 2017-12-06 00:13:16

Below is generated by plot.py at 2017-12-06 03:15:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 78.78 Mbit/s

95th percentile per-packet one-way delay: 117.254 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 57.68 Mbit/s

95th percentile per-packet one-way delay: 86.826 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 37.39 Mbit/s

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

Loss rate: 0.00%

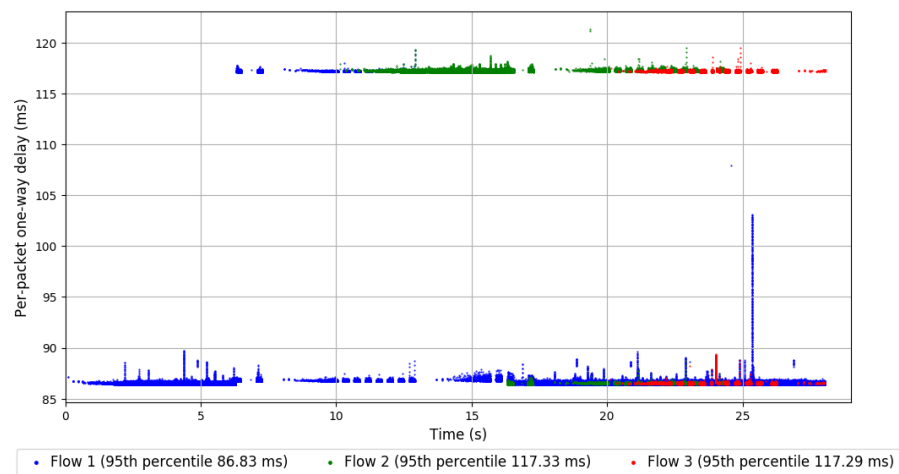
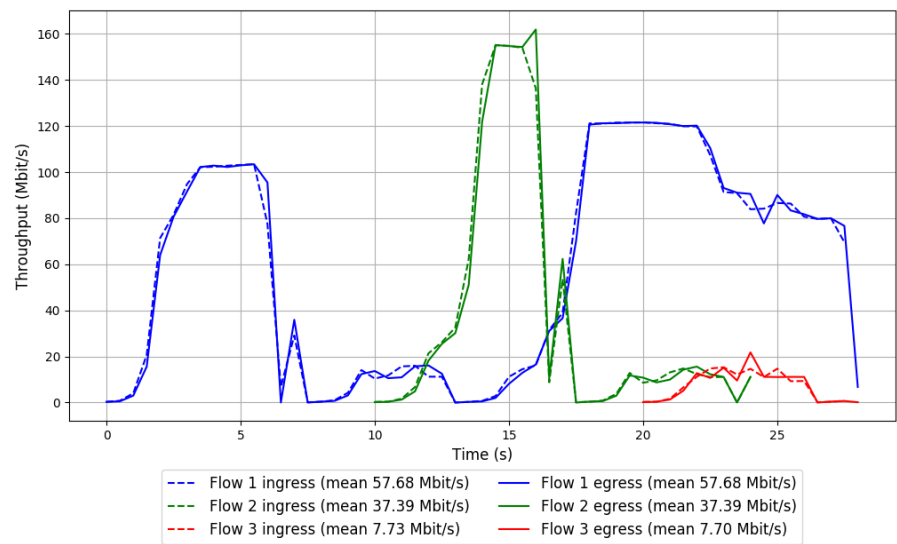
-- Flow 3:

Average throughput: 7.70 Mbit/s

95th percentile per-packet one-way delay: 117.288 ms

Loss rate: 0.00%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2017-12-06 00:25:34

End at: 2017-12-06 00:26:04

Below is generated by plot.py at 2017-12-06 03:15:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 57.97 Mbit/s

95th percentile per-packet one-way delay: 117.297 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 8.40 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 72.86 Mbit/s

95th percentile per-packet one-way delay: 117.300 ms

Loss rate: 0.00%

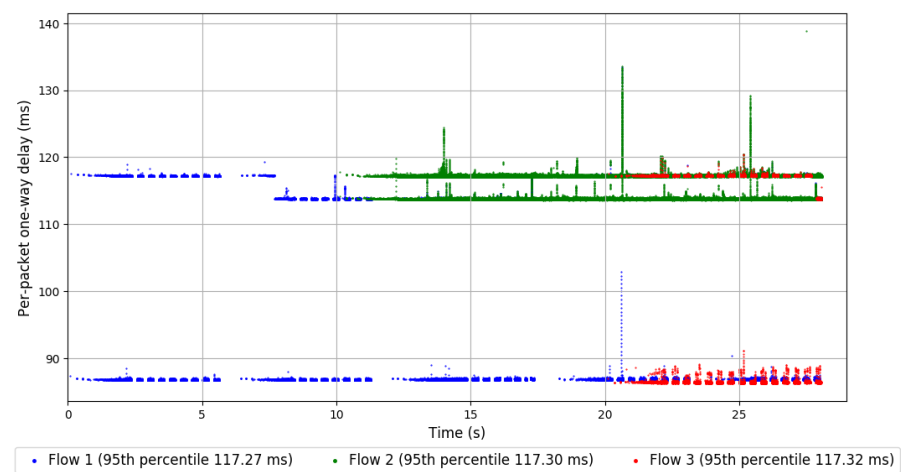
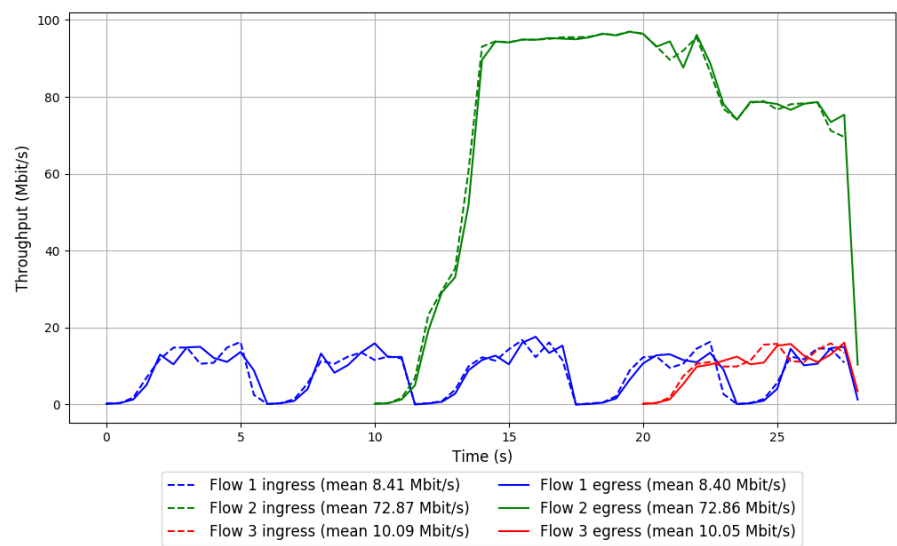
-- Flow 3:

Average throughput: 10.05 Mbit/s

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

Loss rate: 0.00%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2017-12-06 00:38:23

End at: 2017-12-06 00:38:53

Below is generated by plot.py at 2017-12-06 03:15:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.90 Mbit/s

95th percentile per-packet one-way delay: 117.247 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 8.78 Mbit/s

95th percentile per-packet one-way delay: 117.240 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 7.75 Mbit/s

95th percentile per-packet one-way delay: 117.242 ms

Loss rate: 0.00%

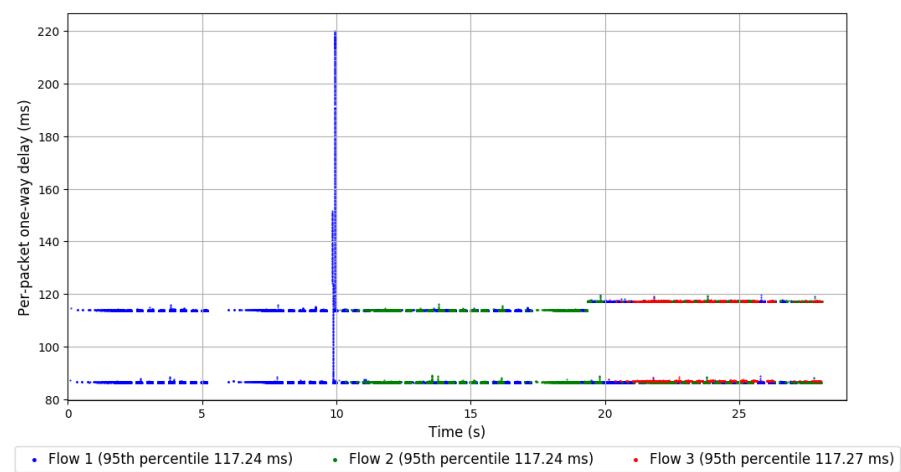
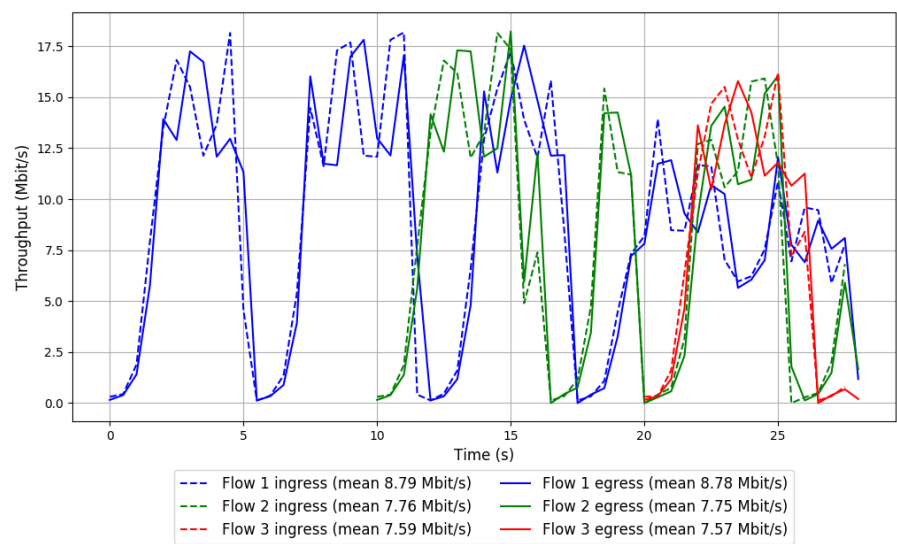
-- Flow 3:

Average throughput: 7.57 Mbit/s

95th percentile per-packet one-way delay: 117.271 ms

Loss rate: 0.00%

Run 6: Report of Copa — Data Link

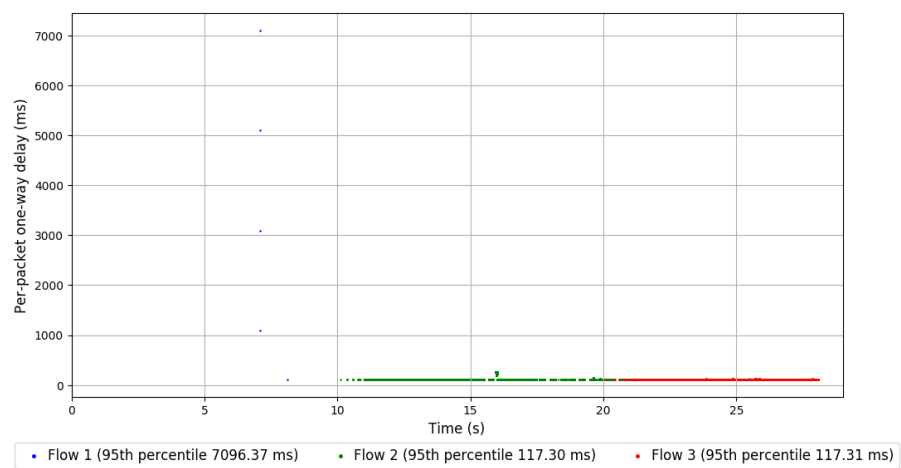
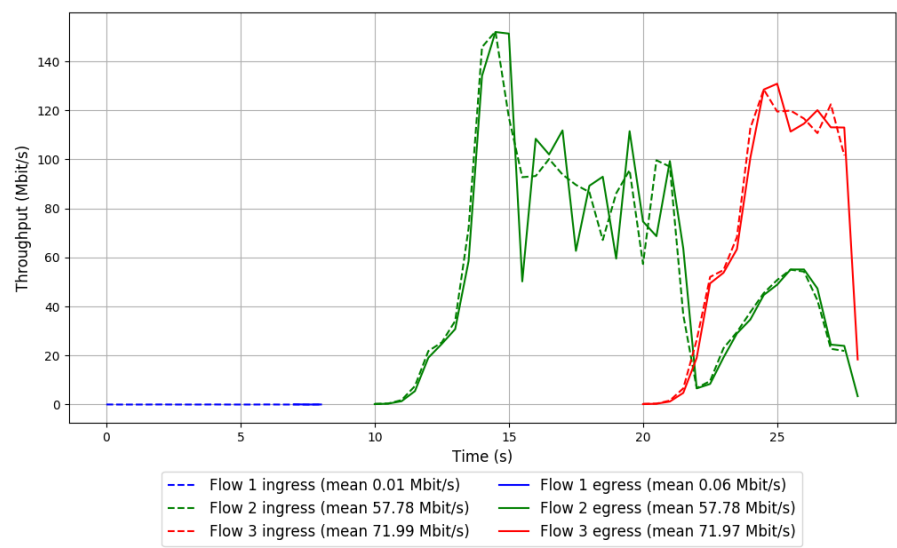


Run 7: Statistics of Copa

Start at: 2017-12-06 00:51:17

End at: 2017-12-06 00:51:47

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2017-12-06 01:03:42

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

Below is generated by plot.py at 2017-12-06 03:16:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.94 Mbit/s

95th percentile per-packet one-way delay: 117.173 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 59.65 Mbit/s

95th percentile per-packet one-way delay: 87.097 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 65.90 Mbit/s

95th percentile per-packet one-way delay: 87.035 ms

Loss rate: 0.00%

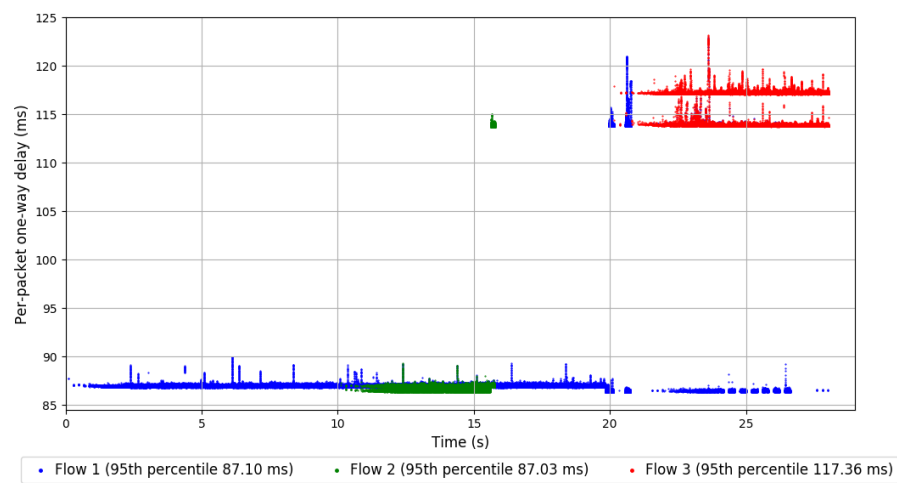
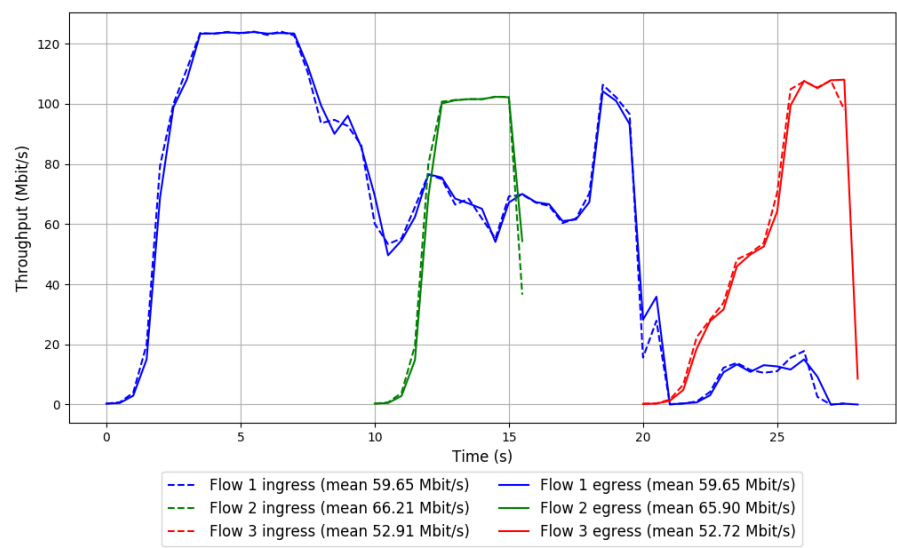
-- Flow 3:

Average throughput: 52.72 Mbit/s

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

Loss rate: 0.70%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2017-12-06 01:16:22

End at: 2017-12-06 01:16:52

Below is generated by plot.py at 2017-12-06 03:16:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 82.13 Mbit/s

95th percentile per-packet one-way delay: 114.131 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 9.29 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 82.18 Mbit/s

95th percentile per-packet one-way delay: 86.600 ms

Loss rate: 0.00%

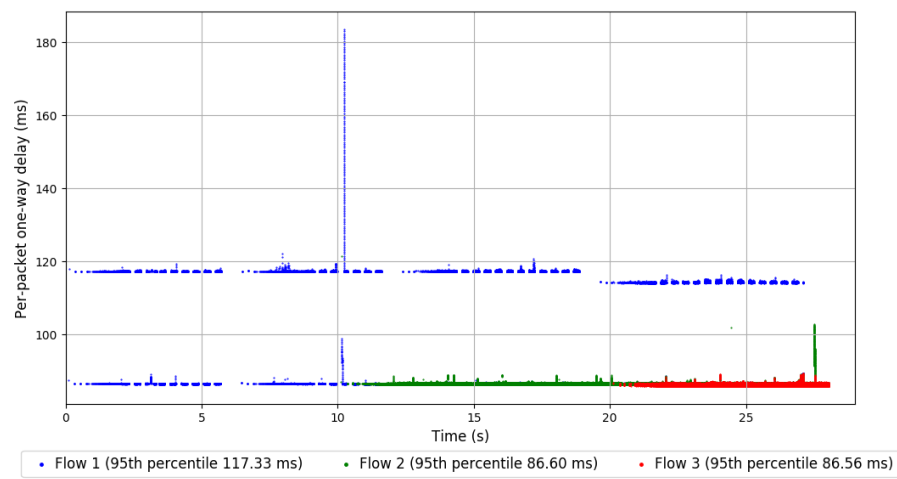
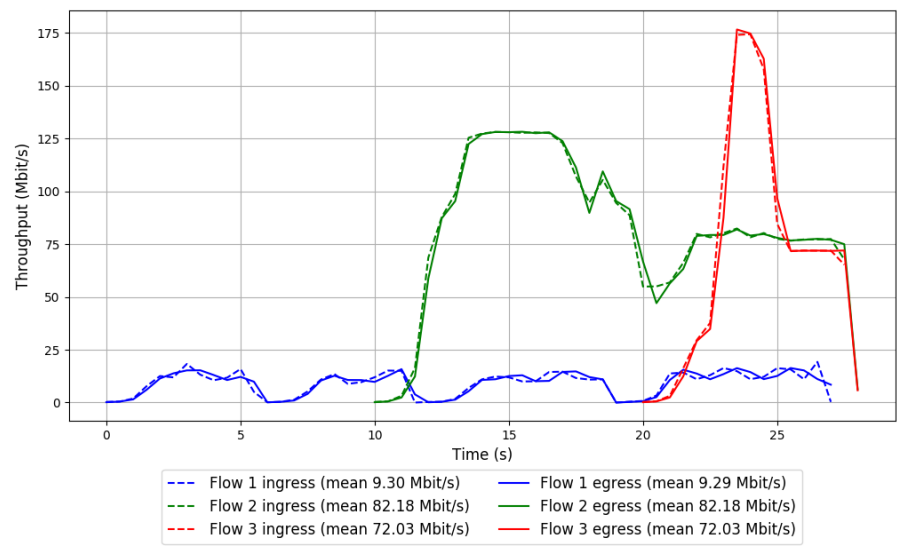
-- Flow 3:

Average throughput: 72.03 Mbit/s

95th percentile per-packet one-way delay: 86.556 ms

Loss rate: 0.00%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2017-12-06 01:29:23

End at: 2017-12-06 01:29:53

Below is generated by plot.py at 2017-12-06 03:16:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 79.37 Mbit/s

95th percentile per-packet one-way delay: 117.090 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 9.32 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 79.13 Mbit/s

95th percentile per-packet one-way delay: 86.990 ms

Loss rate: 0.00%

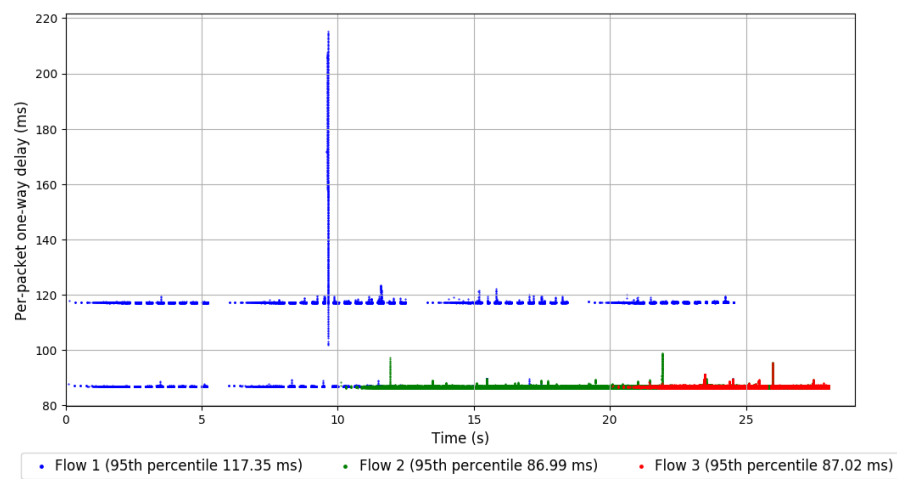
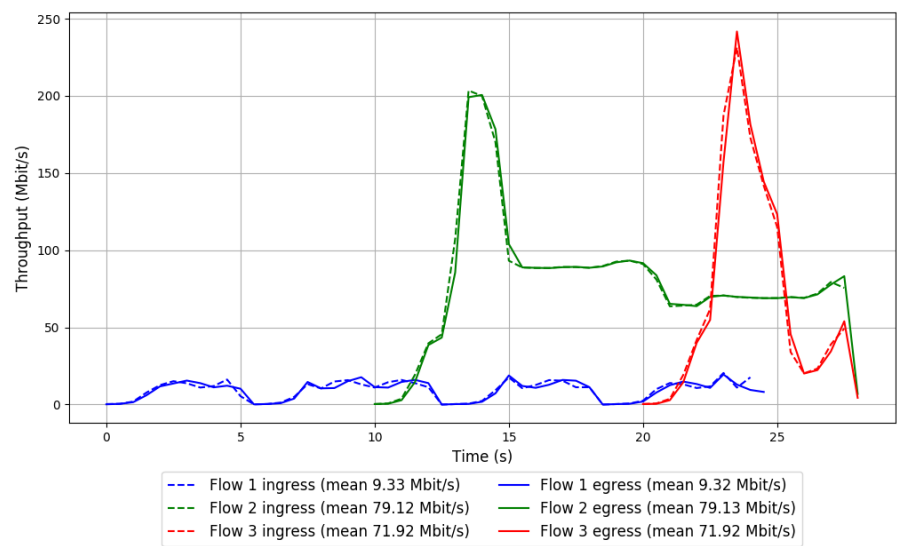
-- Flow 3:

Average throughput: 71.92 Mbit/s

95th percentile per-packet one-way delay: 87.019 ms

Loss rate: 0.00%

Run 10: Report of Copa — Data Link

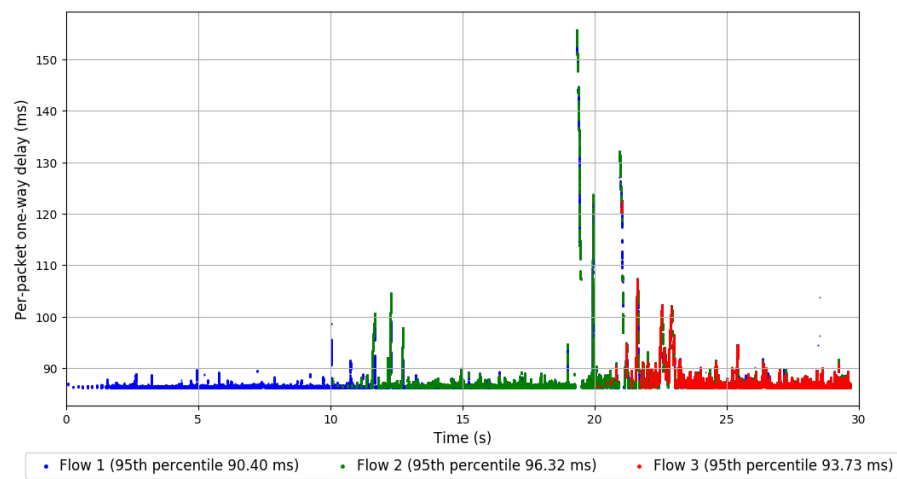
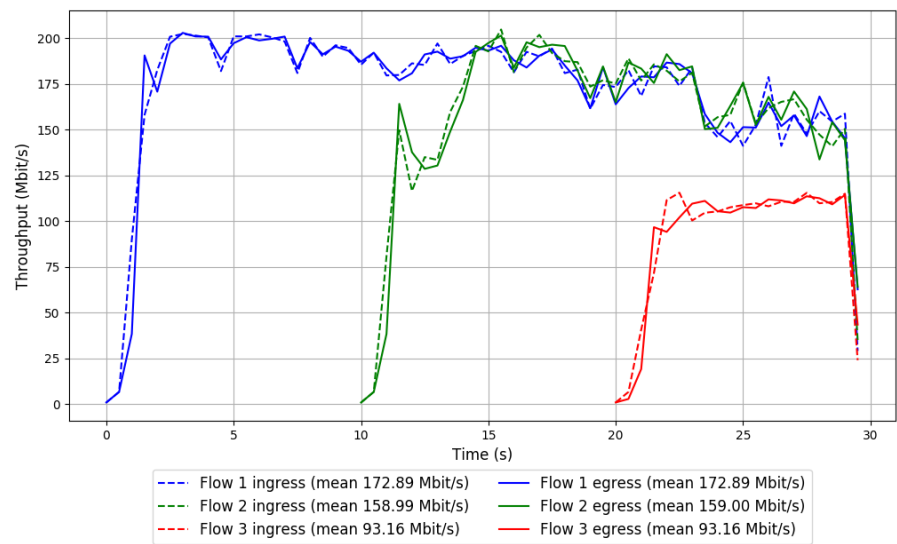


```
Run 1: Statistics of Indigo

Start at: 2017-12-05 23:28:15
End at: 2017-12-05 23:28:45

# Below is generated by plot.py at 2017-12-06 03:19:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 308.27 Mbit/s
95th percentile per-packet one-way delay: 92.961 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 172.89 Mbit/s
95th percentile per-packet one-way delay: 90.396 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 159.00 Mbit/s
95th percentile per-packet one-way delay: 96.317 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 93.16 Mbit/s
95th percentile per-packet one-way delay: 93.731 ms
Loss rate: 0.00%
```


Run 1: Report of Indigo — Data Link

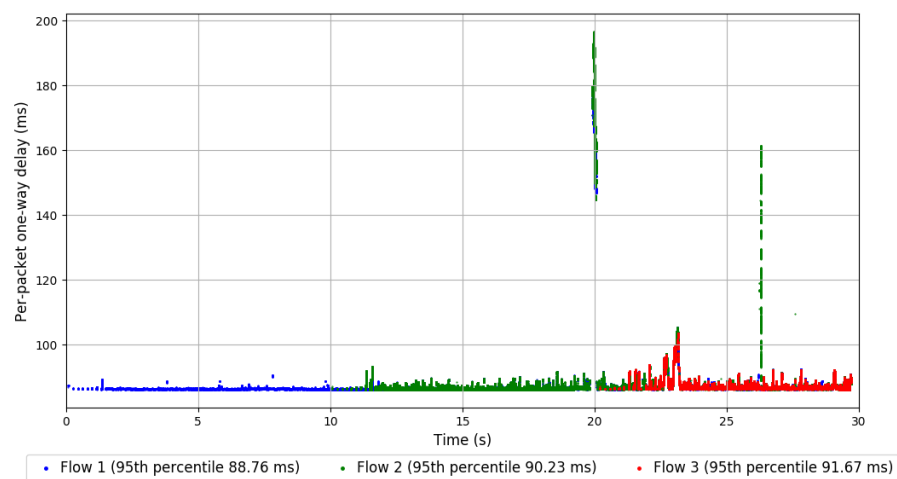
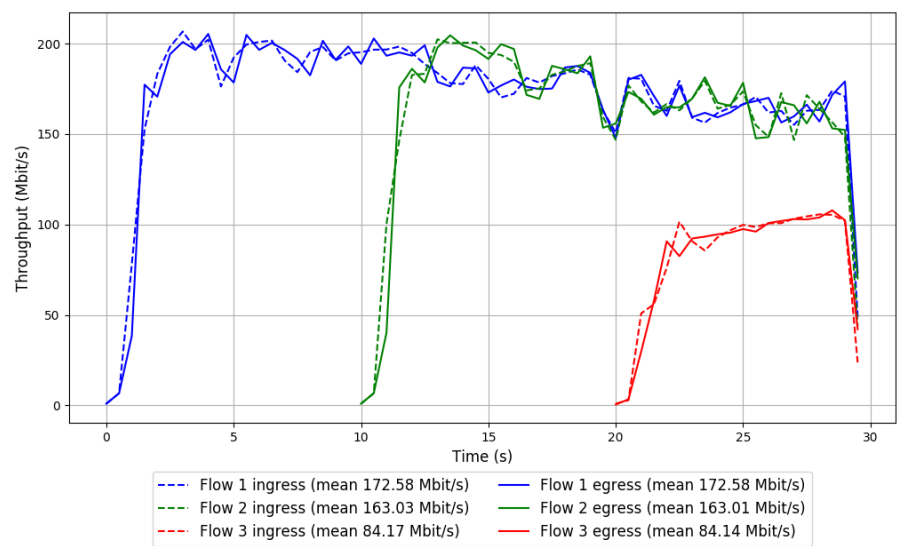


```
Run 2: Statistics of Indigo

Start at: 2017-12-05 23:41:14
End at: 2017-12-05 23:41:44

# Below is generated by plot.py at 2017-12-06 03:20:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 307.54 Mbit/s
95th percentile per-packet one-way delay: 89.541 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 172.58 Mbit/s
95th percentile per-packet one-way delay: 88.757 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 163.01 Mbit/s
95th percentile per-packet one-way delay: 90.226 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 84.14 Mbit/s
95th percentile per-packet one-way delay: 91.674 ms
Loss rate: 0.00%
```

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2017-12-05 23:54:22

End at: 2017-12-05 23:54:52

Below is generated by plot.py at 2017-12-06 03:20:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 331.26 Mbit/s

95th percentile per-packet one-way delay: 99.506 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 173.60 Mbit/s

95th percentile per-packet one-way delay: 96.238 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 167.90 Mbit/s

95th percentile per-packet one-way delay: 100.799 ms

Loss rate: 0.00%

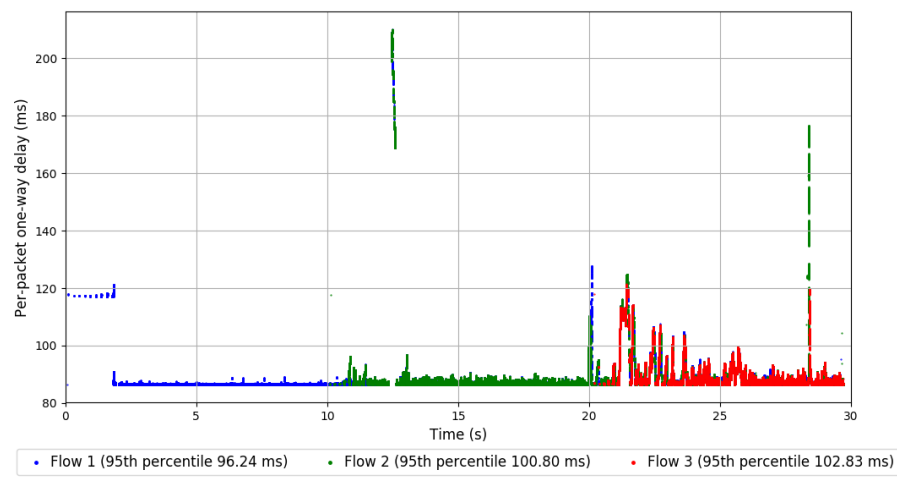
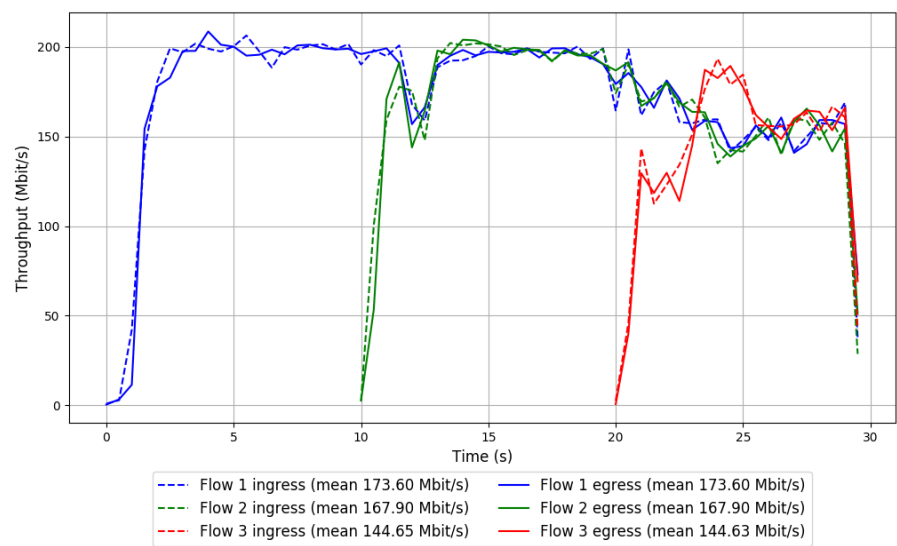
-- Flow 3:

Average throughput: 144.63 Mbit/s

95th percentile per-packet one-way delay: 102.832 ms

Loss rate: 0.00%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2017-12-06 00:06:42

End at: 2017-12-06 00:07:12

Below is generated by plot.py at 2017-12-06 03:20:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 319.30 Mbit/s

95th percentile per-packet one-way delay: 91.866 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 175.23 Mbit/s

95th percentile per-packet one-way delay: 89.991 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 169.09 Mbit/s

95th percentile per-packet one-way delay: 92.852 ms

Loss rate: 0.00%

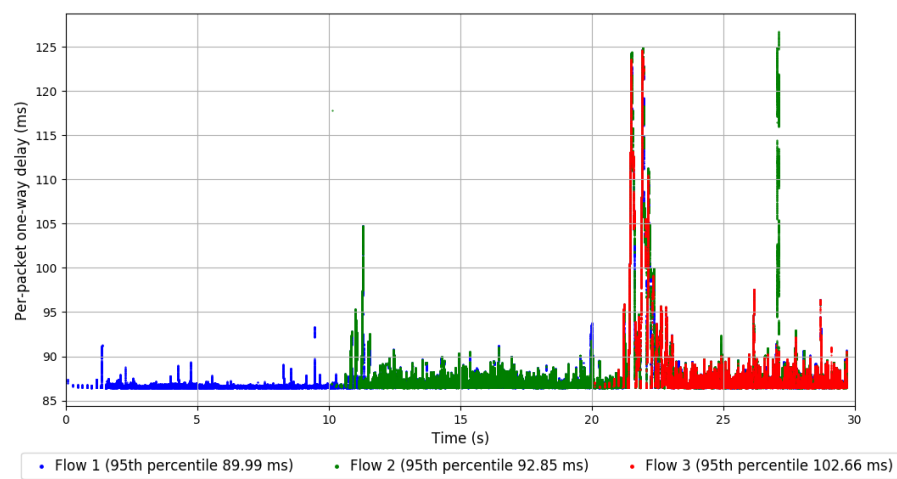
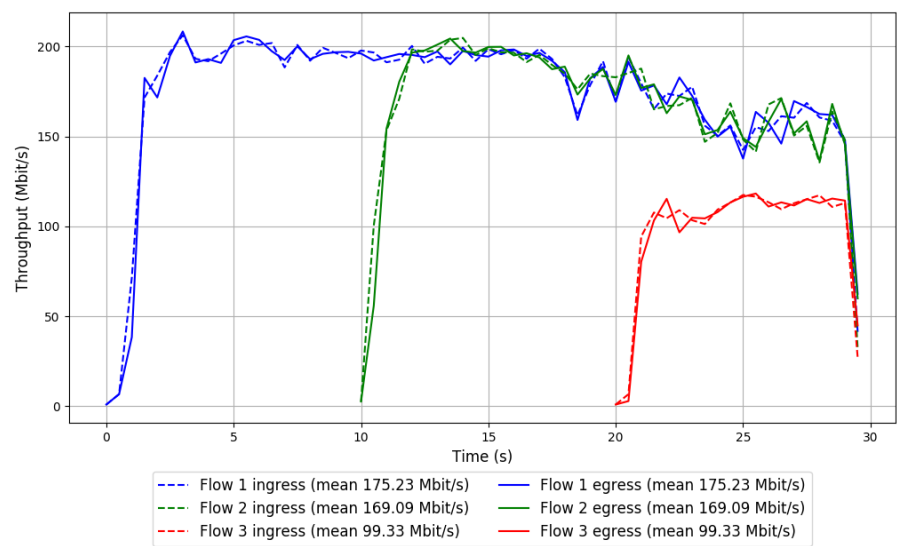
-- Flow 3:

Average throughput: 99.33 Mbit/s

95th percentile per-packet one-way delay: 102.662 ms

Loss rate: 0.00%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2017-12-06 00:19:28

End at: 2017-12-06 00:19:58

Below is generated by plot.py at 2017-12-06 03:20:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 302.66 Mbit/s

95th percentile per-packet one-way delay: 120.262 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 163.68 Mbit/s

95th percentile per-packet one-way delay: 118.894 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 144.68 Mbit/s

95th percentile per-packet one-way delay: 120.473 ms

Loss rate: 0.06%

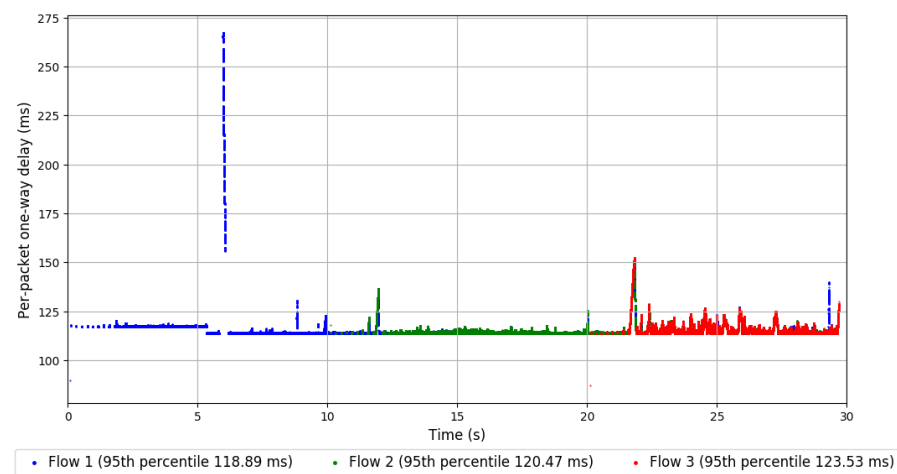
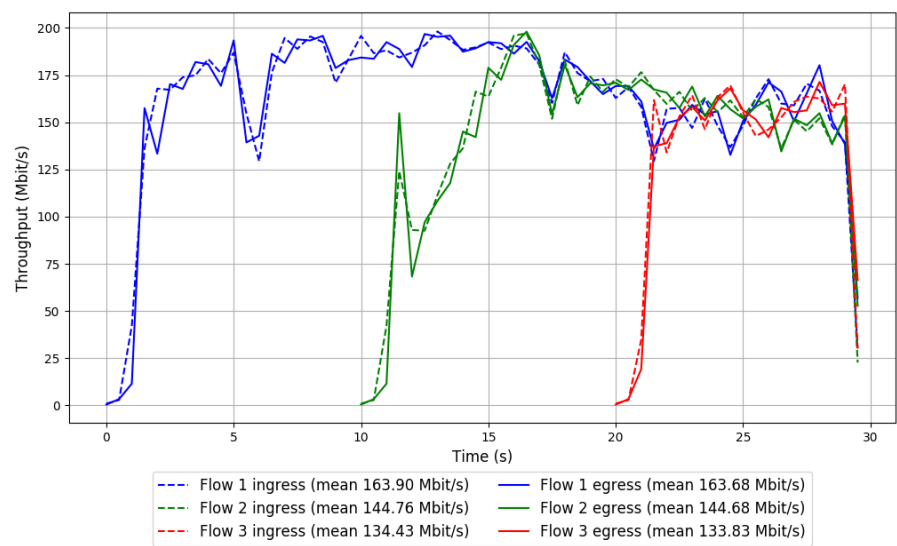
-- Flow 3:

Average throughput: 133.83 Mbit/s

95th percentile per-packet one-way delay: 123.529 ms

Loss rate: 0.10%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2017-12-06 00:32:14

End at: 2017-12-06 00:32:44

Below is generated by plot.py at 2017-12-06 03:21:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 310.95 Mbit/s

95th percentile per-packet one-way delay: 123.958 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 166.87 Mbit/s

95th percentile per-packet one-way delay: 121.222 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 158.05 Mbit/s

95th percentile per-packet one-way delay: 125.577 ms

Loss rate: 0.01%

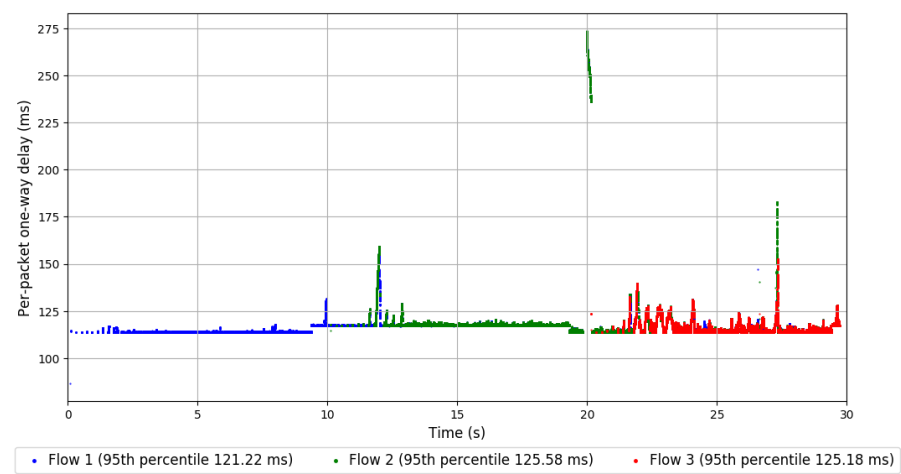
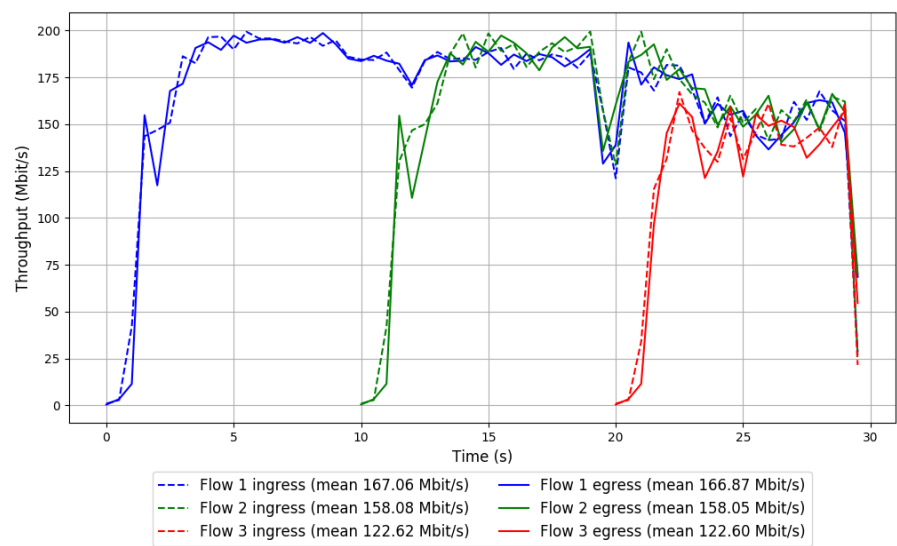
-- Flow 3:

Average throughput: 122.60 Mbit/s

95th percentile per-packet one-way delay: 125.176 ms

Loss rate: 0.00%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2017-12-06 00:44:52

End at: 2017-12-06 00:45:22

Below is generated by plot.py at 2017-12-06 03:21:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 292.37 Mbit/s

95th percentile per-packet one-way delay: 119.989 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 165.23 Mbit/s

95th percentile per-packet one-way delay: 118.941 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 154.18 Mbit/s

95th percentile per-packet one-way delay: 120.877 ms

Loss rate: 0.00%

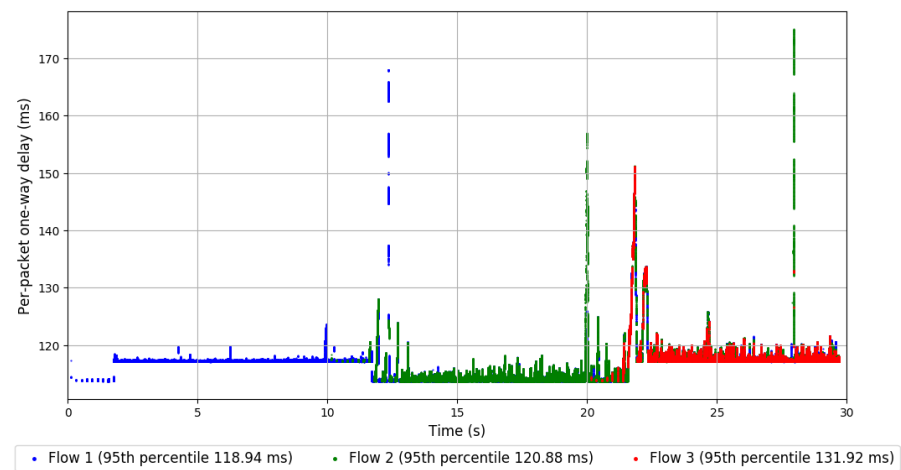
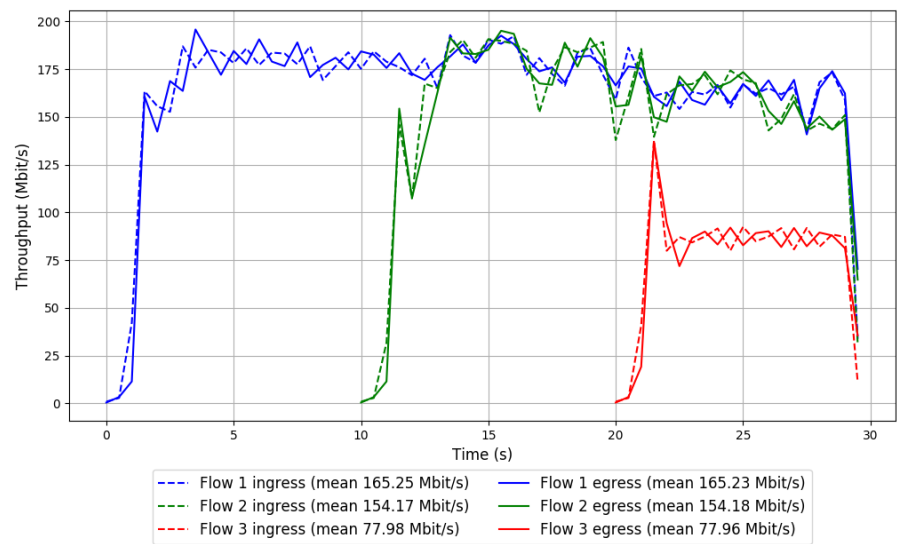
-- Flow 3:

Average throughput: 77.96 Mbit/s

95th percentile per-packet one-way delay: 131.922 ms

Loss rate: 0.00%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2017-12-06 00:57:38

End at: 2017-12-06 00:58:08

Below is generated by plot.py at 2017-12-06 03:21:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 212.42 Mbit/s

95th percentile per-packet one-way delay: 116.233 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 61.14 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 167.39 Mbit/s

95th percentile per-packet one-way delay: 116.013 ms

Loss rate: 0.00%

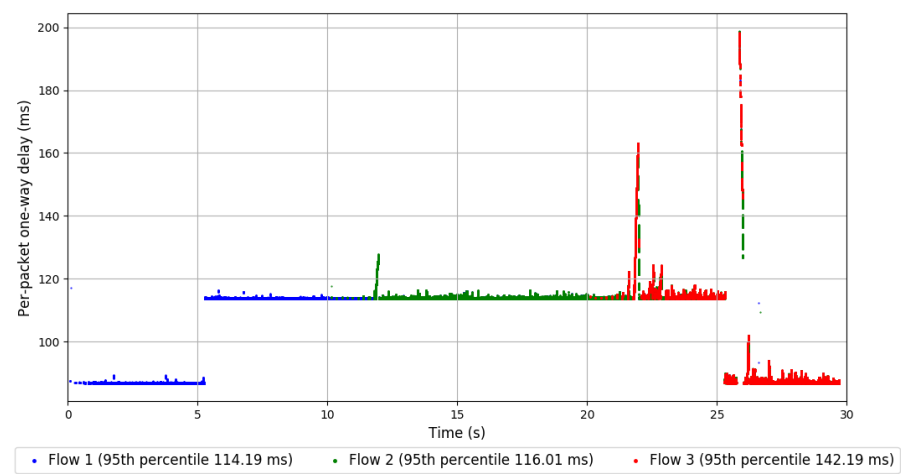
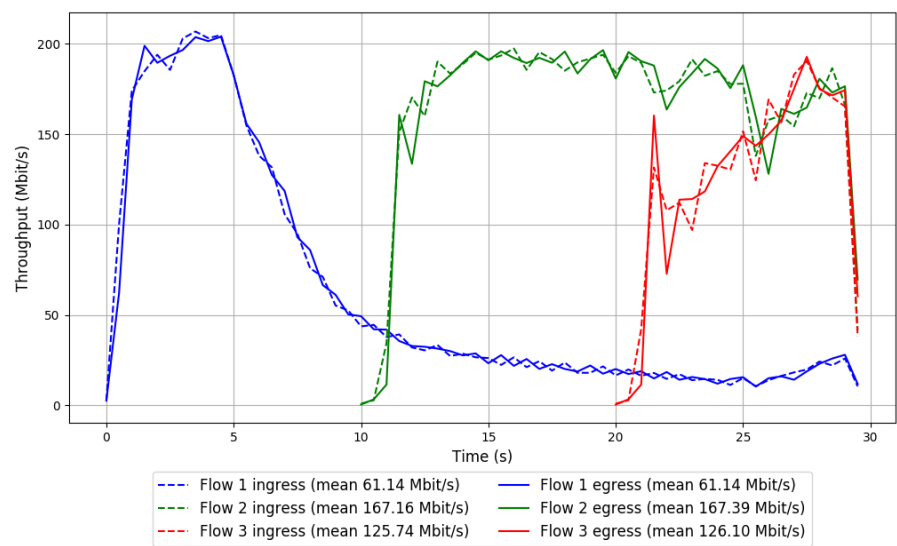
-- Flow 3:

Average throughput: 126.10 Mbit/s

95th percentile per-packet one-way delay: 142.193 ms

Loss rate: 0.00%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2017-12-06 01:10:16

End at: 2017-12-06 01:10:46

Below is generated by plot.py at 2017-12-06 03:24:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 234.94 Mbit/s

95th percentile per-packet one-way delay: 115.428 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 73.11 Mbit/s

95th percentile per-packet one-way delay: 114.306 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 171.15 Mbit/s

95th percentile per-packet one-way delay: 115.370 ms

Loss rate: 0.14%

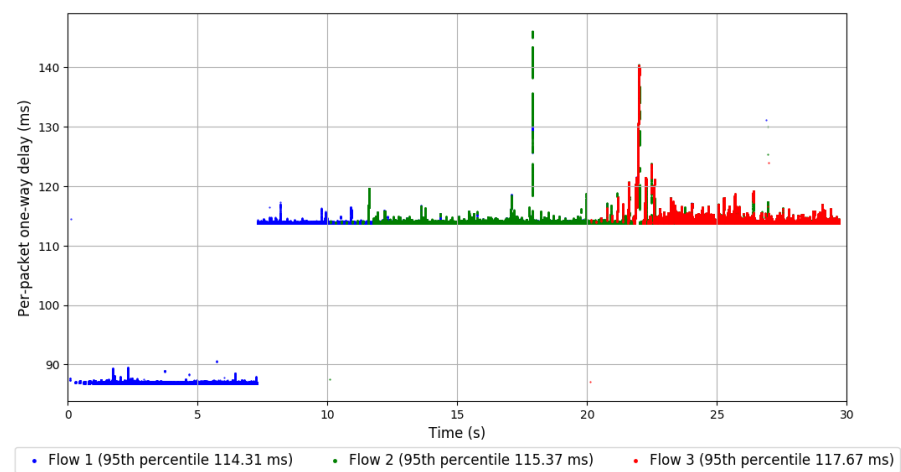
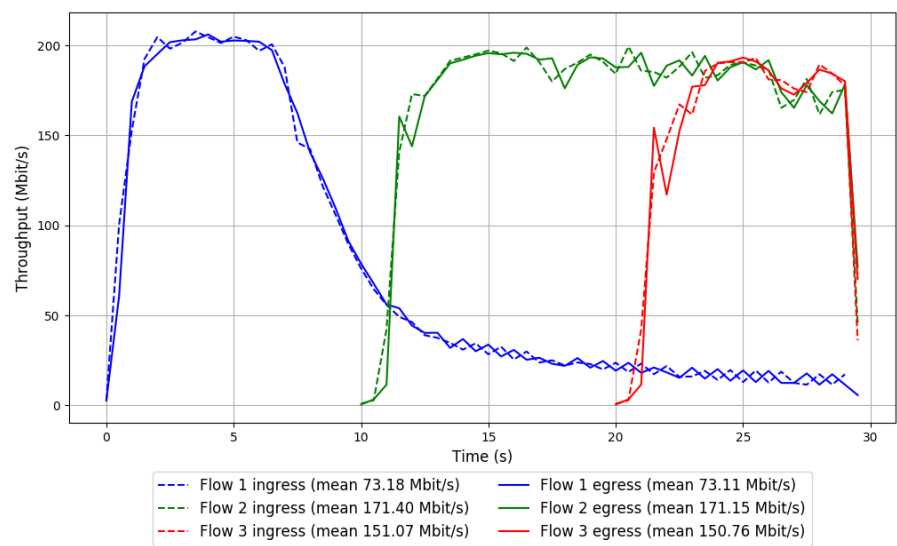
-- Flow 3:

Average throughput: 150.76 Mbit/s

95th percentile per-packet one-way delay: 117.675 ms

Loss rate: 0.24%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2017-12-06 01:22:55

End at: 2017-12-06 01:23:25

Below is generated by plot.py at 2017-12-06 03:25:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 328.15 Mbit/s

95th percentile per-packet one-way delay: 91.683 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 182.33 Mbit/s

95th percentile per-packet one-way delay: 90.445 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 171.31 Mbit/s

95th percentile per-packet one-way delay: 93.252 ms

Loss rate: 0.00%

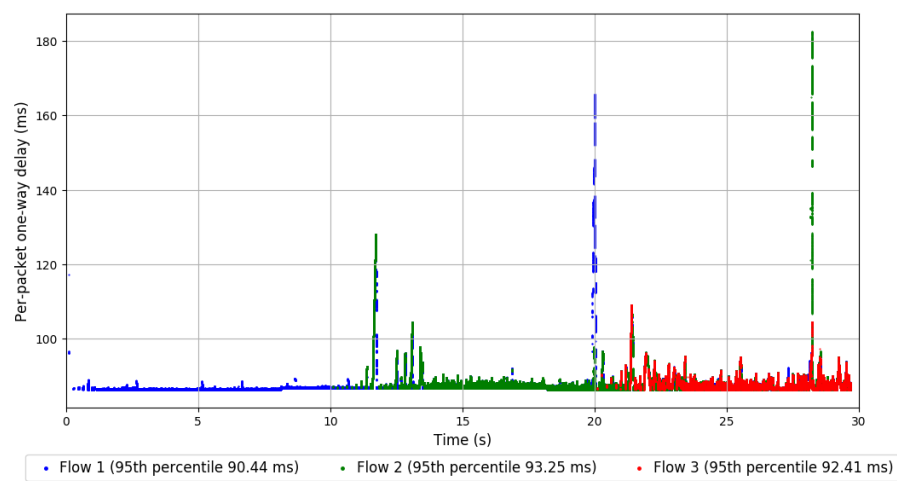
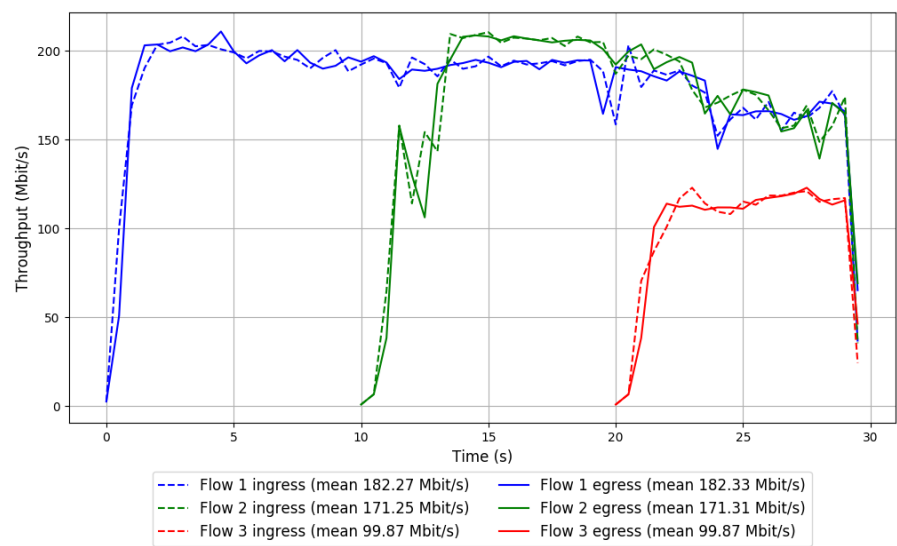
-- Flow 3:

Average throughput: 99.87 Mbit/s

95th percentile per-packet one-way delay: 92.405 ms

Loss rate: 0.00%

Run 10: Report of Indigo — Data Link

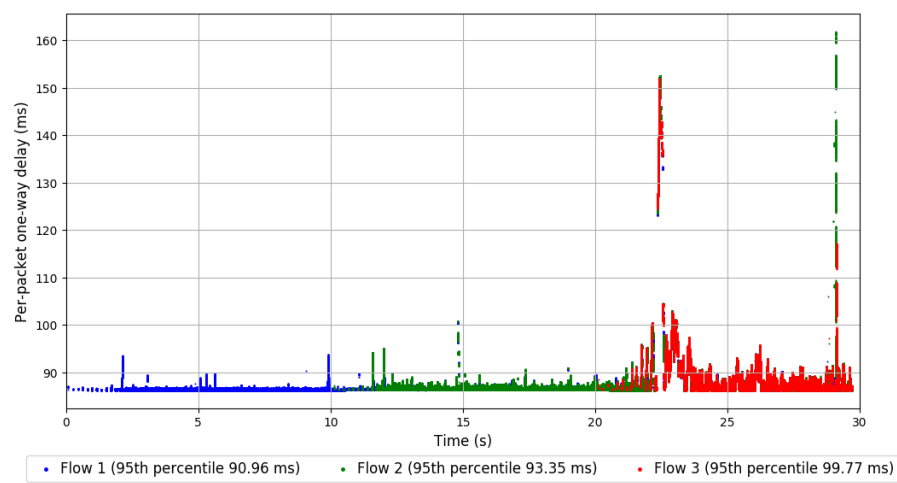
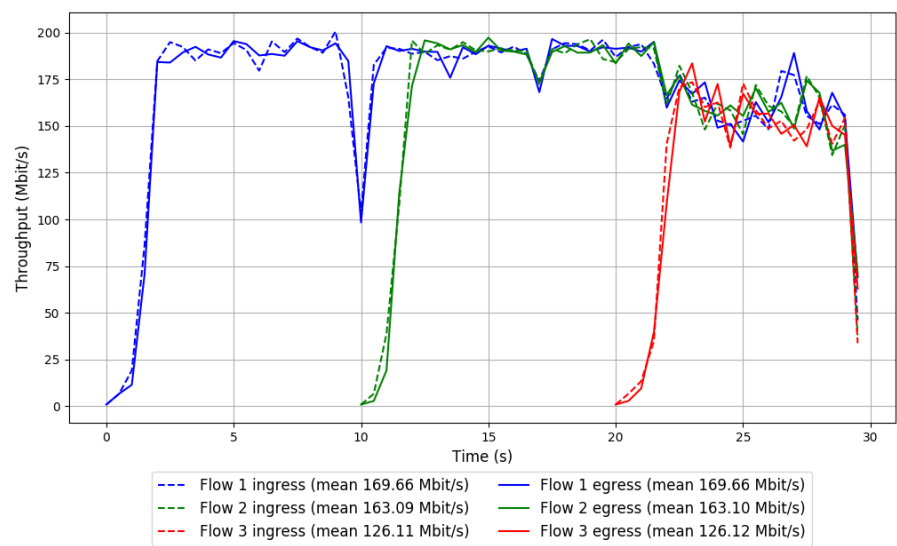


```
Run 1: Statistics of Indigo-calib

Start at: 2017-12-05 23:36:13
End at: 2017-12-05 23:36:43

# Below is generated by plot.py at 2017-12-06 03:25:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 318.24 Mbit/s
95th percentile per-packet one-way delay: 93.025 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 169.66 Mbit/s
95th percentile per-packet one-way delay: 90.958 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 163.10 Mbit/s
95th percentile per-packet one-way delay: 93.347 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 126.12 Mbit/s
95th percentile per-packet one-way delay: 99.768 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo-calib — Data Link

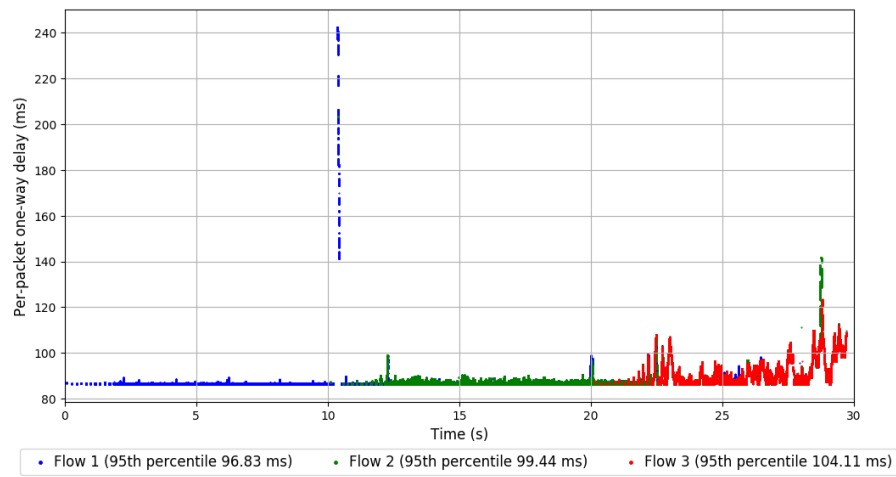
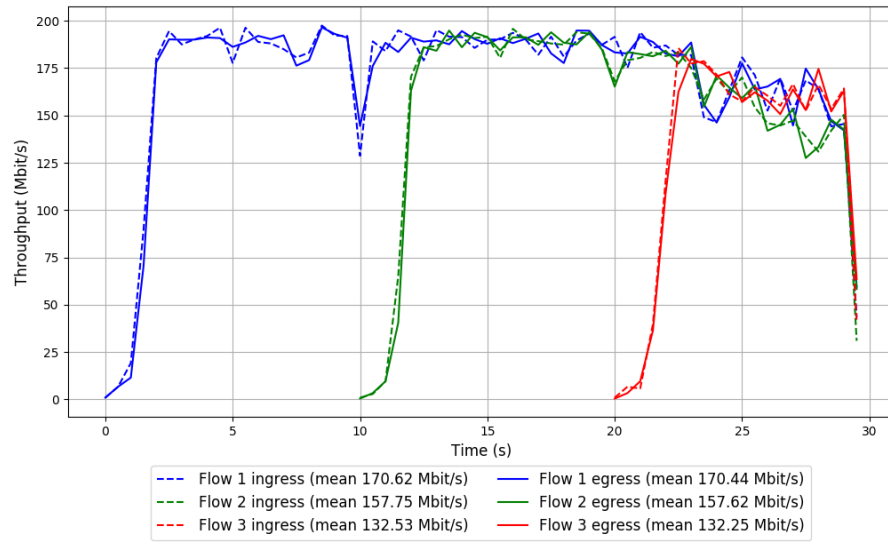


```
Run 2: Statistics of Indigo-calib

Start at: 2017-12-05 23:49:24
End at: 2017-12-05 23:49:54

# Below is generated by plot.py at 2017-12-06 03:25:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 317.31 Mbit/s
95th percentile per-packet one-way delay: 100.050 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 170.44 Mbit/s
95th percentile per-packet one-way delay: 96.829 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 157.62 Mbit/s
95th percentile per-packet one-way delay: 99.440 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 132.25 Mbit/s
95th percentile per-packet one-way delay: 104.105 ms
Loss rate: 0.21%
```

Run 2: Report of Indigo-calib — Data Link

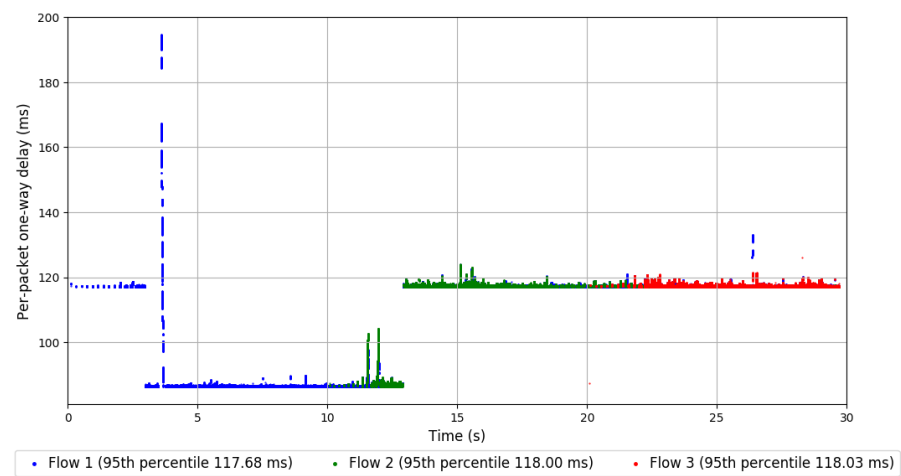
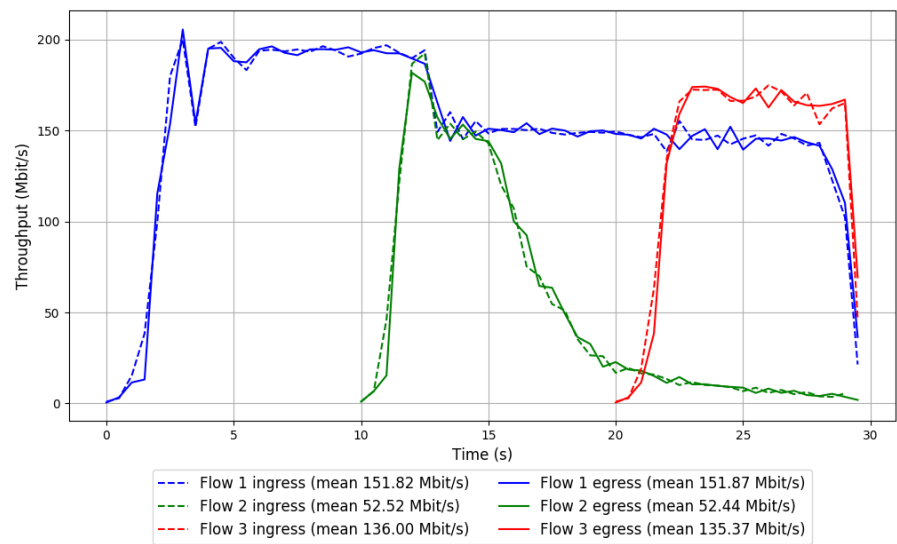


```
Run 3: Statistics of Indigo-calib

Start at: 2017-12-06 00:02:01
End at: 2017-12-06 00:02:31

# Below is generated by plot.py at 2017-12-06 03:25:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 230.29 Mbit/s
95th percentile per-packet one-way delay: 117.809 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 151.87 Mbit/s
95th percentile per-packet one-way delay: 117.678 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 52.44 Mbit/s
95th percentile per-packet one-way delay: 118.002 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 135.37 Mbit/s
95th percentile per-packet one-way delay: 118.025 ms
Loss rate: 0.44%
```


Run 3: Report of Indigo-calib — Data Link



Run 4: Statistics of Indigo-calib

Start at: 2017-12-06 00:14:25

End at: 2017-12-06 00:14:55

Below is generated by plot.py at 2017-12-06 03:25:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 269.72 Mbit/s

95th percentile per-packet one-way delay: 118.062 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 121.56 Mbit/s

95th percentile per-packet one-way delay: 117.916 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 157.62 Mbit/s

95th percentile per-packet one-way delay: 118.297 ms

Loss rate: 0.00%

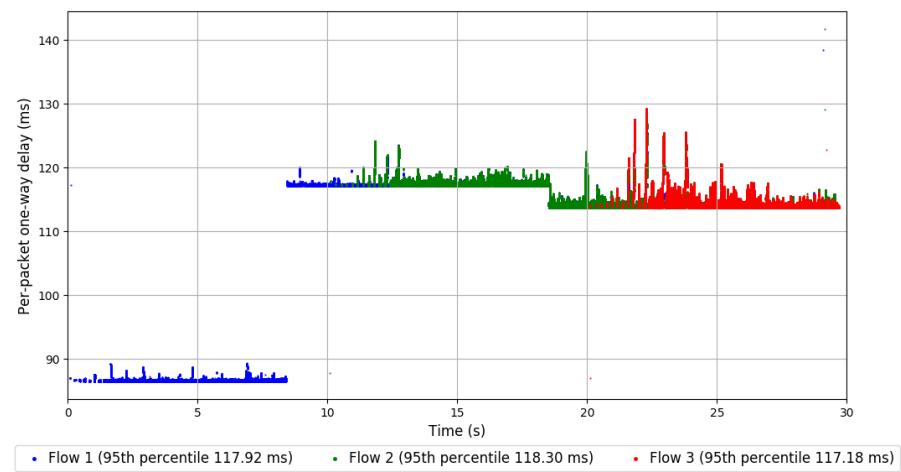
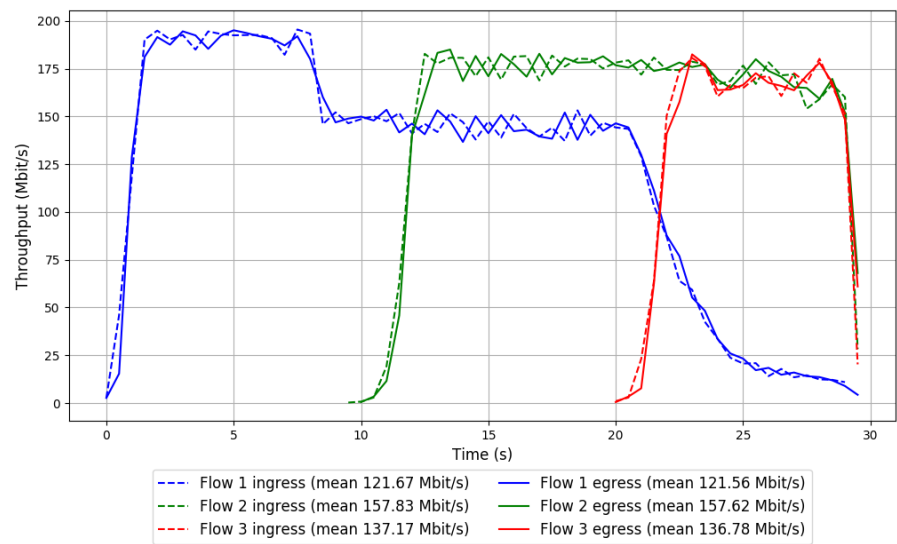
-- Flow 3:

Average throughput: 136.78 Mbit/s

95th percentile per-packet one-way delay: 117.184 ms

Loss rate: 0.01%

Run 4: Report of Indigo-calib — Data Link

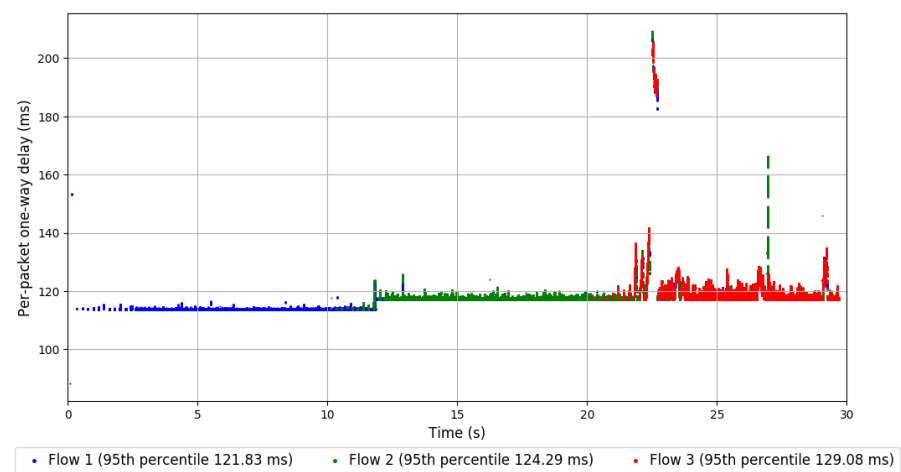
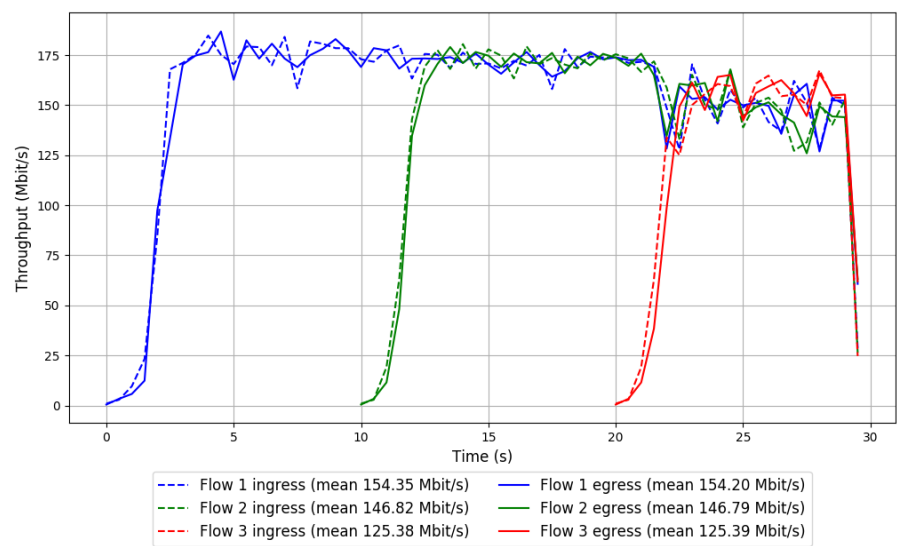


```
Run 5: Statistics of Indigo-calib

Start at: 2017-12-06 00:27:12
End at: 2017-12-06 00:27:42

# Below is generated by plot.py at 2017-12-06 03:26:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 291.69 Mbit/s
95th percentile per-packet one-way delay: 124.000 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 154.20 Mbit/s
95th percentile per-packet one-way delay: 121.829 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 146.79 Mbit/s
95th percentile per-packet one-way delay: 124.286 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 125.39 Mbit/s
95th percentile per-packet one-way delay: 129.080 ms
Loss rate: 0.03%
```

Run 5: Report of Indigo-calib — Data Link



Run 6: Statistics of Indigo-calib

Start at: 2017-12-06 00:39:55

End at: 2017-12-06 00:40:25

Below is generated by plot.py at 2017-12-06 03:26:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 291.99 Mbit/s

95th percentile per-packet one-way delay: 122.942 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 154.65 Mbit/s

95th percentile per-packet one-way delay: 121.520 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 146.13 Mbit/s

95th percentile per-packet one-way delay: 123.373 ms

Loss rate: 0.02%

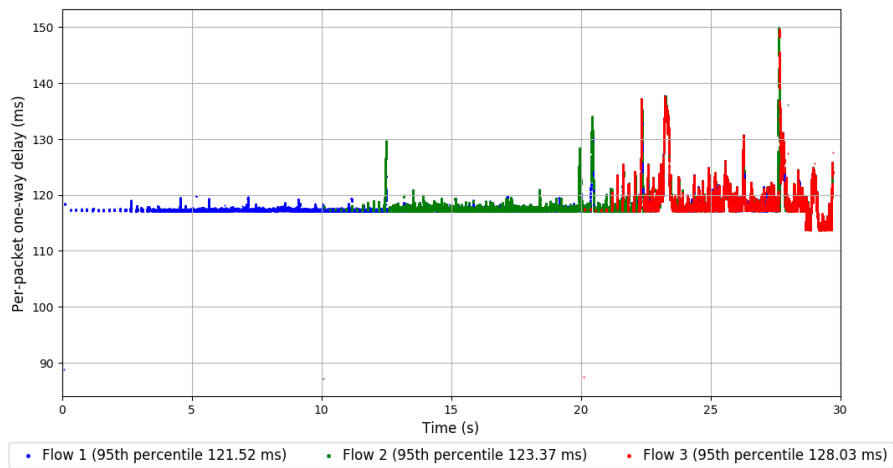
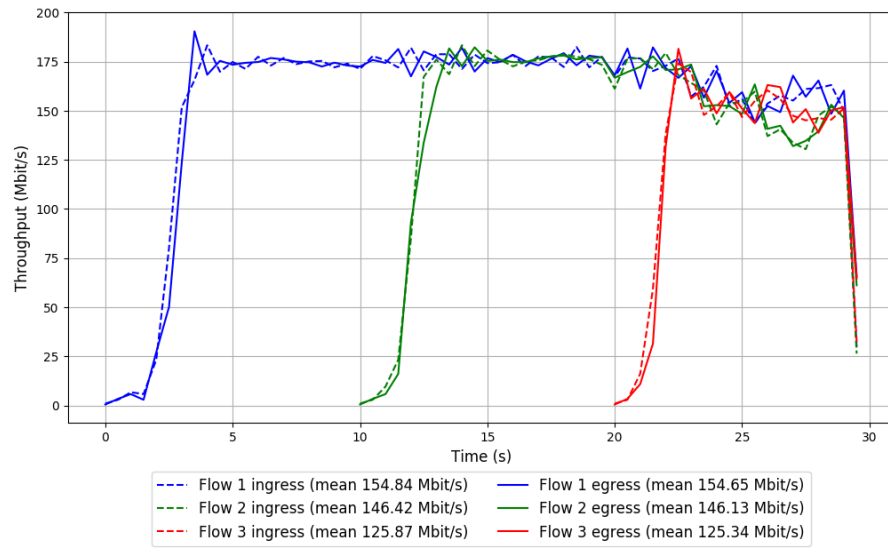
-- Flow 3:

Average throughput: 125.34 Mbit/s

95th percentile per-packet one-way delay: 128.029 ms

Loss rate: 0.04%

Run 6: Report of Indigo-calib — Data Link

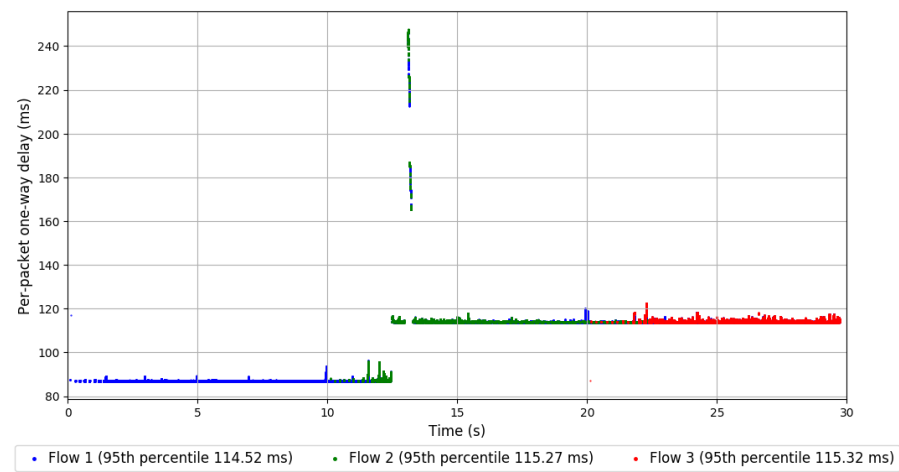
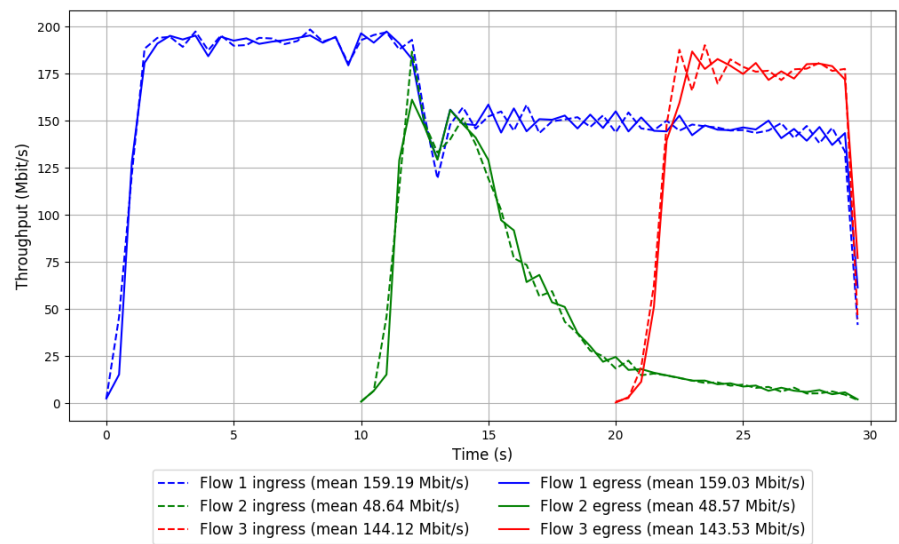


```
Run 7: Statistics of Indigo-calib

Start at: 2017-12-06 00:52:51
End at: 2017-12-06 00:53:21

# Below is generated by plot.py at 2017-12-06 03:27:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 237.59 Mbit/s
95th percentile per-packet one-way delay: 114.787 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 159.03 Mbit/s
95th percentile per-packet one-way delay: 114.524 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 48.57 Mbit/s
95th percentile per-packet one-way delay: 115.272 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 143.53 Mbit/s
95th percentile per-packet one-way delay: 115.321 ms
Loss rate: 0.40%
```


Run 7: Report of Indigo-calib — Data Link

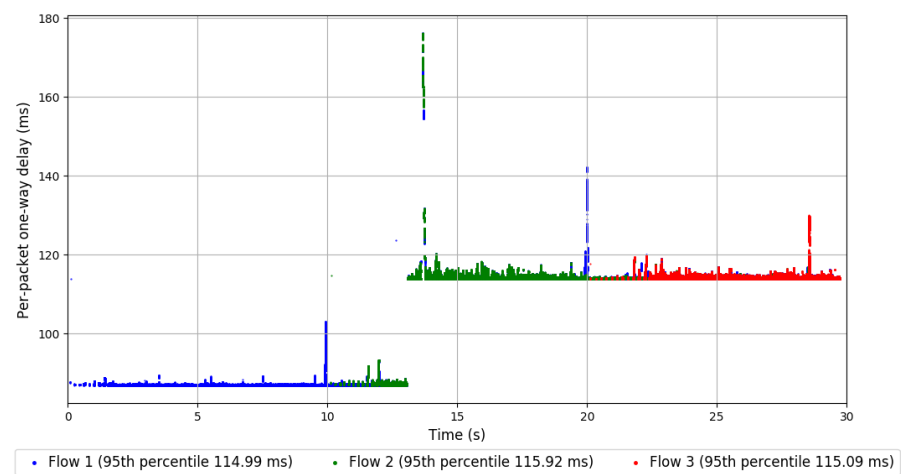
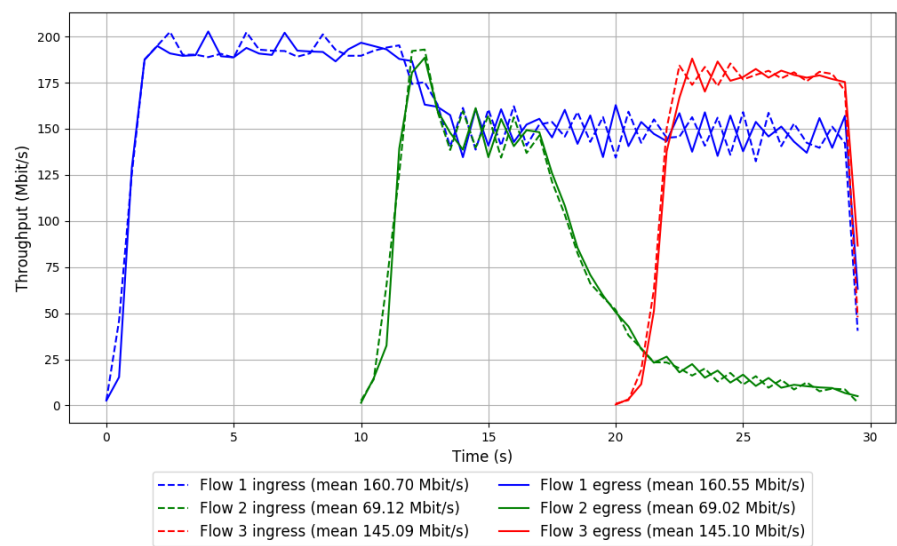


```
Run 8: Statistics of Indigo-calib

Start at: 2017-12-06 01:05:21
End at: 2017-12-06 01:05:51

# Below is generated by plot.py at 2017-12-06 03:27:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 253.19 Mbit/s
95th percentile per-packet one-way delay: 115.256 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 160.55 Mbit/s
95th percentile per-packet one-way delay: 114.991 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 69.02 Mbit/s
95th percentile per-packet one-way delay: 115.923 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 145.10 Mbit/s
95th percentile per-packet one-way delay: 115.091 ms
Loss rate: 0.00%
```

Run 8: Report of Indigo-calib — Data Link

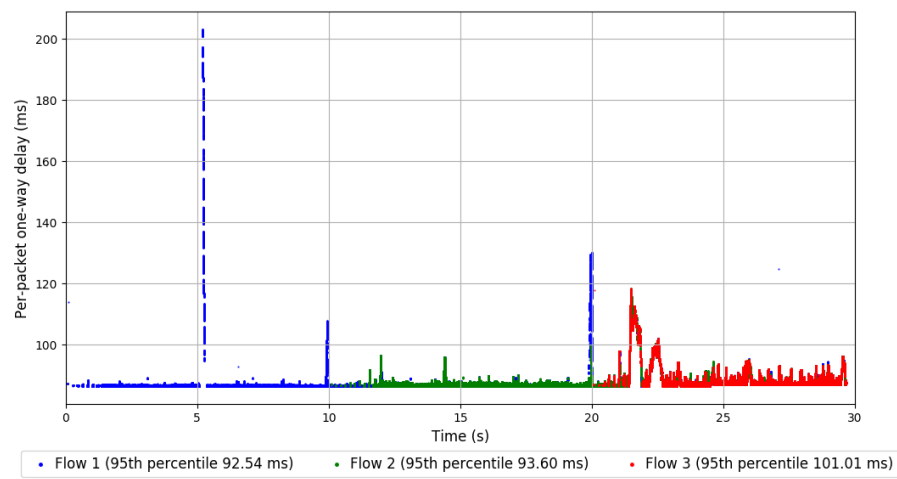
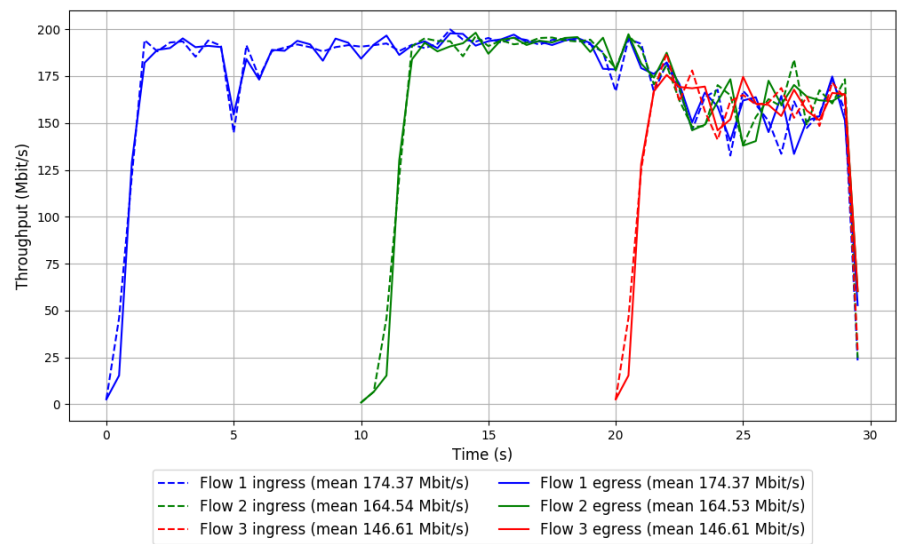


```
Run 9: Statistics of Indigo-calib

Start at: 2017-12-06 01:17:59
End at: 2017-12-06 01:18:29

# Below is generated by plot.py at 2017-12-06 03:27:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 330.73 Mbit/s
95th percentile per-packet one-way delay: 94.449 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 174.37 Mbit/s
95th percentile per-packet one-way delay: 92.537 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 164.53 Mbit/s
95th percentile per-packet one-way delay: 93.598 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 146.61 Mbit/s
95th percentile per-packet one-way delay: 101.010 ms
Loss rate: 0.00%
```

Run 9: Report of Indigo-calib — Data Link



```
Run 10: Statistics of Indigo-calib

Start at: 2017-12-06 01:30:59
End at: 2017-12-06 01:31:29

# Below is generated by plot.py at 2017-12-06 03:27:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 324.21 Mbit/s
95th percentile per-packet one-way delay: 99.573 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 173.14 Mbit/s
95th percentile per-packet one-way delay: 97.717 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 164.24 Mbit/s
95th percentile per-packet one-way delay: 99.133 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 130.80 Mbit/s
95th percentile per-packet one-way delay: 102.934 ms
Loss rate: 0.09%
```

Run 10: Report of Indigo-calib — Data Link

