

Pantheon Report

Generated at 2017-11-21 19:28:17 (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.

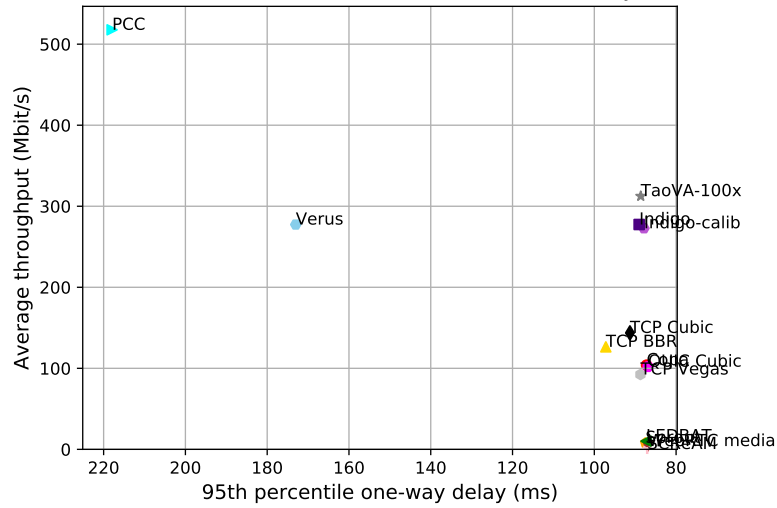
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

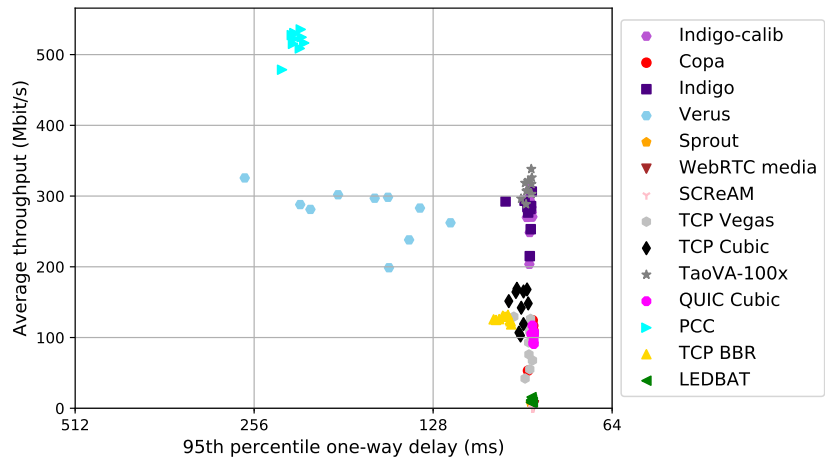
Git summary:

```
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	62.09	64.79	64.89	96.22	96.81	99.90	0.04	0.00	0.05
TCP Cubic	10	82.85	63.05	57.02	90.71	92.21	92.26	0.00	0.01	0.01
LEDBAT	10	6.17	4.48	3.00	87.38	87.36	87.22	0.03	0.01	0.00
PCC	9	482.48	31.18	44.19	217.41	217.56	207.40	1.29	0.85	1.59
QUIC Cubic	10	55.31	55.08	31.48	86.75	86.84	86.99	0.00	0.01	0.31
SCReAM	9	0.59	0.22	0.22	461.76	87.05	87.22	0.00	0.03	0.00
WebRTC media	10	2.20	1.36	0.51	86.75	86.78	86.90	0.00	0.00	0.01
Sprout	9	4.20	4.01	3.42	87.49	87.53	87.48	0.15	0.08	0.03
TaoVA-100x	10	185.32	163.19	102.50	87.72	89.27	105.18	0.00	0.01	0.02
TCP Vegas	10	43.08	48.91	50.58	88.45	88.35	89.86	0.00	0.12	0.00
Verus	10	195.71	89.90	72.58	171.94	168.93	170.60	0.63	0.56	1.52
Copa	8	58.08	55.18	37.25	87.15	87.25	87.19	0.00	0.00	0.00
Indigo	10	151.54	133.77	115.52	88.11	89.22	90.98	0.01	0.03	0.00
Indigo-calib	10	150.23	134.15	104.80	87.49	88.00	89.35	0.02	0.01	0.01

Run 1: Statistics of TCP BBR

Start at: 2017-11-21 14:58:43

End at: 2017-11-21 14:59:13

Below is generated by plot.py at 2017-11-21 18:28:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 124.77 Mbit/s

95th percentile per-packet one-way delay: 95.066 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 62.25 Mbit/s

95th percentile per-packet one-way delay: 95.300 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 58.32 Mbit/s

95th percentile per-packet one-way delay: 93.480 ms

Loss rate: 0.01%

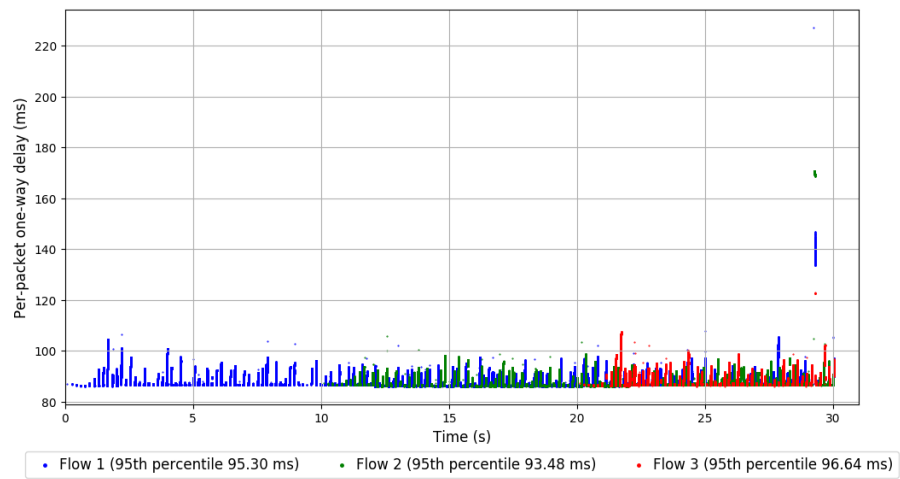
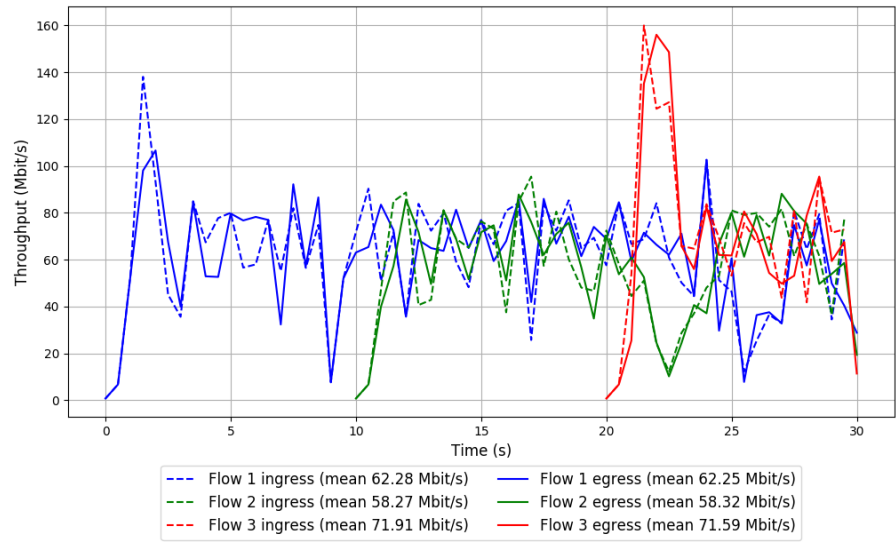
-- Flow 3:

Average throughput: 71.59 Mbit/s

95th percentile per-packet one-way delay: 96.638 ms

Loss rate: 0.43%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2017-11-21 15:11:50

End at: 2017-11-21 15:12:20

Below is generated by plot.py at 2017-11-21 18:28:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 130.81 Mbit/s

95th percentile per-packet one-way delay: 97.727 ms

Loss rate: 0.20%

-- Flow 1:

Average throughput: 61.49 Mbit/s

95th percentile per-packet one-way delay: 97.825 ms

Loss rate: 0.43%

-- Flow 2:

Average throughput: 73.77 Mbit/s

95th percentile per-packet one-way delay: 96.182 ms

Loss rate: 0.00%

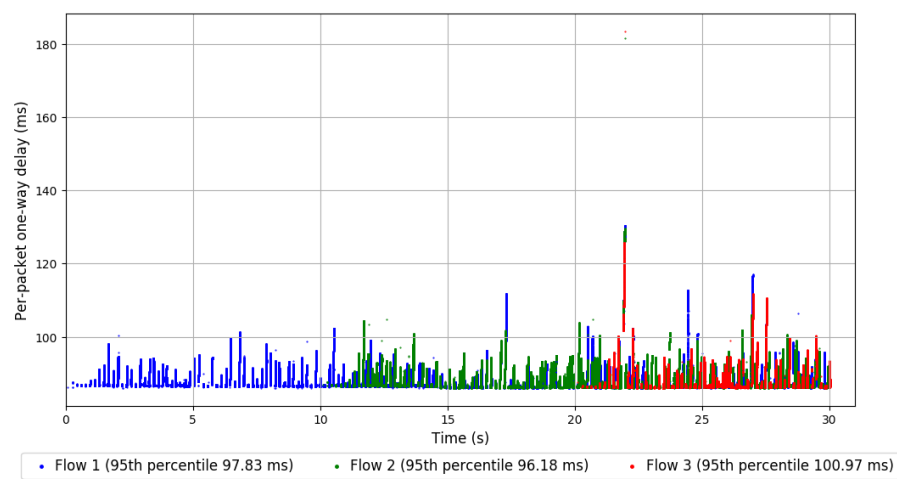
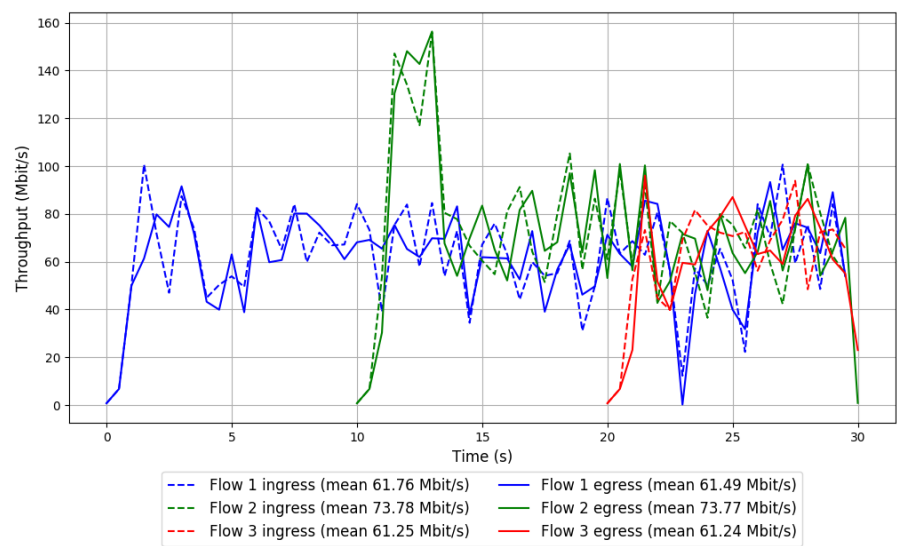
-- Flow 3:

Average throughput: 61.24 Mbit/s

95th percentile per-packet one-way delay: 100.966 ms

Loss rate: 0.00%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2017-11-21 15:25:03

End at: 2017-11-21 15:25:33

Below is generated by plot.py at 2017-11-21 18:28:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 125.73 Mbit/s

95th percentile per-packet one-way delay: 101.277 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 62.03 Mbit/s

95th percentile per-packet one-way delay: 101.563 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 63.98 Mbit/s

95th percentile per-packet one-way delay: 97.382 ms

Loss rate: 0.00%

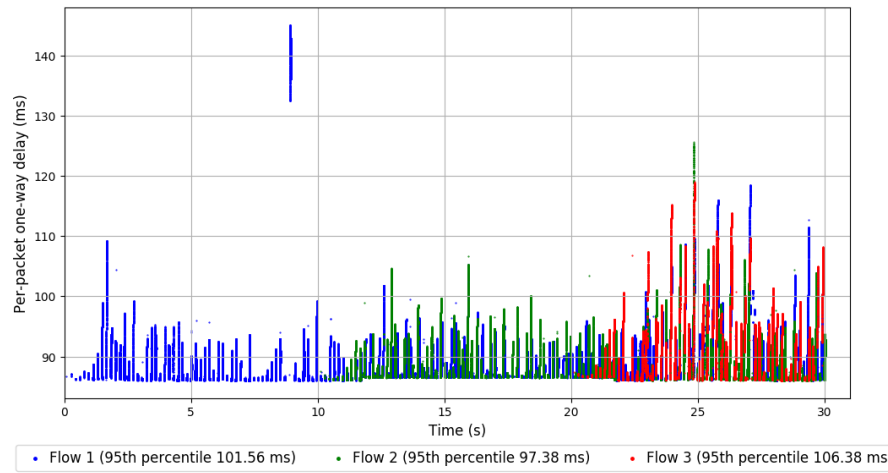
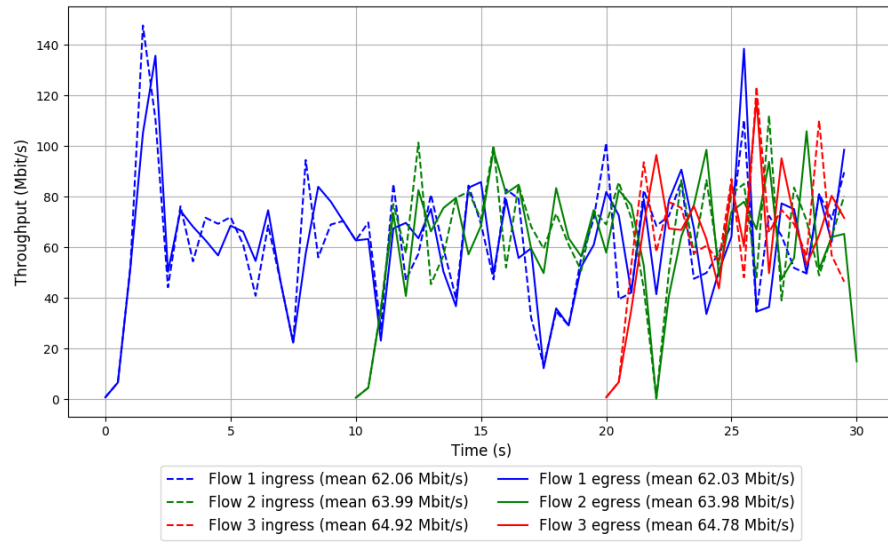
-- Flow 3:

Average throughput: 64.78 Mbit/s

95th percentile per-packet one-way delay: 106.377 ms

Loss rate: 0.00%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2017-11-21 15:38:25

End at: 2017-11-21 15:38:55

Below is generated by plot.py at 2017-11-21 18:28:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 122.94 Mbit/s

95th percentile per-packet one-way delay: 94.815 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 59.81 Mbit/s

95th percentile per-packet one-way delay: 94.669 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 60.12 Mbit/s

95th percentile per-packet one-way delay: 95.290 ms

Loss rate: 0.00%

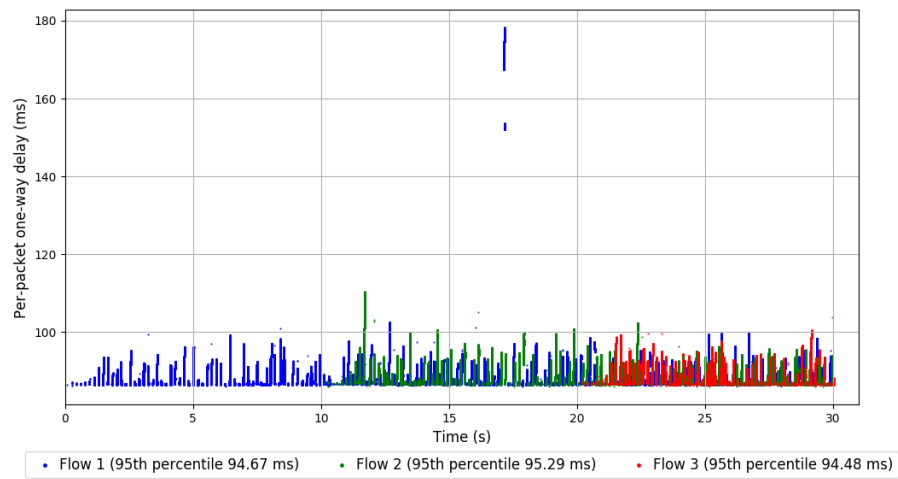
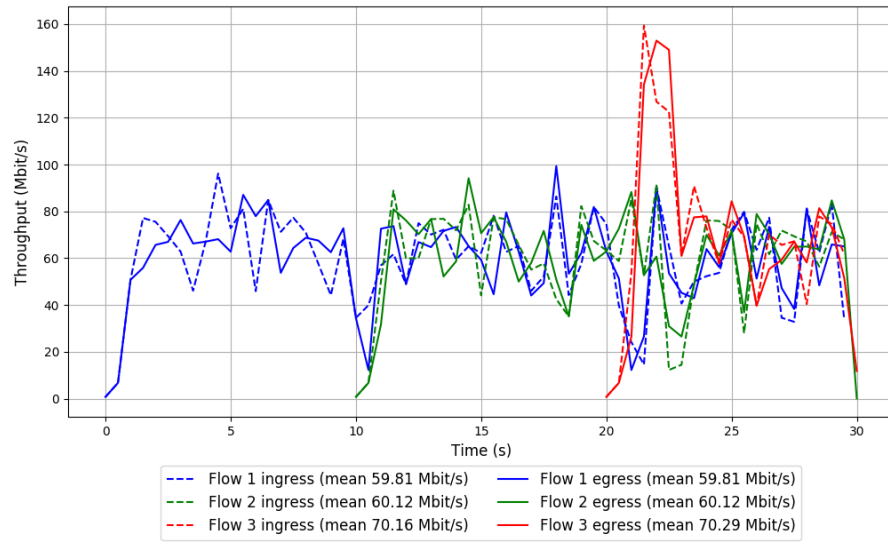
-- Flow 3:

Average throughput: 70.29 Mbit/s

95th percentile per-packet one-way delay: 94.484 ms

Loss rate: 0.00%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2017-11-21 15:51:28

End at: 2017-11-21 15:51:58

Below is generated by plot.py at 2017-11-21 18:28:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 129.46 Mbit/s

95th percentile per-packet one-way delay: 96.920 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 63.55 Mbit/s

95th percentile per-packet one-way delay: 95.815 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 69.35 Mbit/s

95th percentile per-packet one-way delay: 95.853 ms

Loss rate: 0.00%

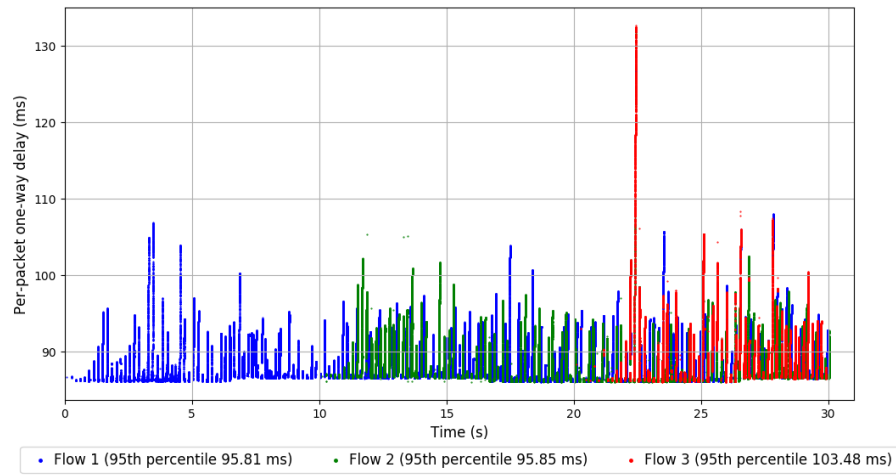
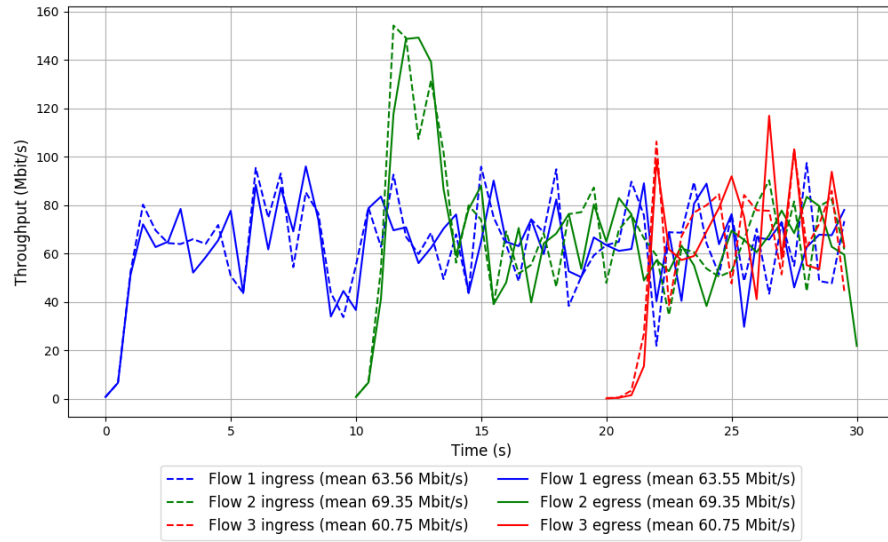
-- Flow 3:

Average throughput: 60.75 Mbit/s

95th percentile per-packet one-way delay: 103.483 ms

Loss rate: 0.02%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2017-11-21 16:04:27

End at: 2017-11-21 16:04:57

Below is generated by plot.py at 2017-11-21 18:28:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 129.49 Mbit/s

95th percentile per-packet one-way delay: 96.143 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 65.00 Mbit/s

95th percentile per-packet one-way delay: 95.305 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 67.40 Mbit/s

95th percentile per-packet one-way delay: 97.038 ms

Loss rate: 0.00%

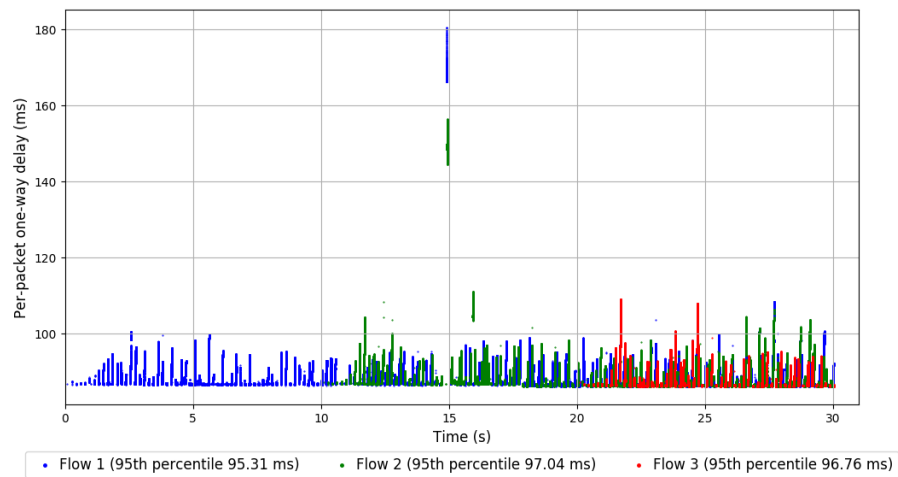
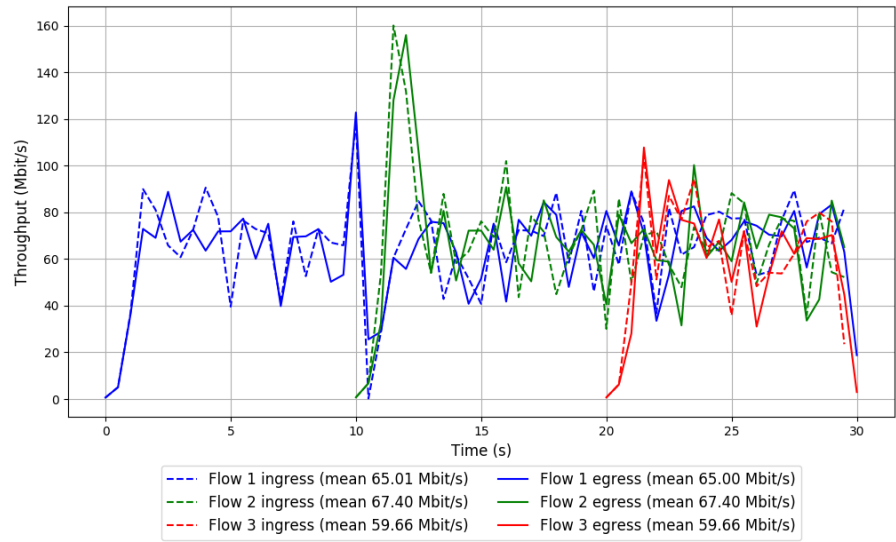
-- Flow 3:

Average throughput: 59.66 Mbit/s

95th percentile per-packet one-way delay: 96.764 ms

Loss rate: 0.01%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2017-11-21 16:17:38

End at: 2017-11-21 16:18:08

Below is generated by plot.py at 2017-11-21 18:28:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 126.07 Mbit/s

95th percentile per-packet one-way delay: 99.125 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 63.40 Mbit/s

95th percentile per-packet one-way delay: 97.764 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 64.86 Mbit/s

95th percentile per-packet one-way delay: 99.145 ms

Loss rate: 0.00%

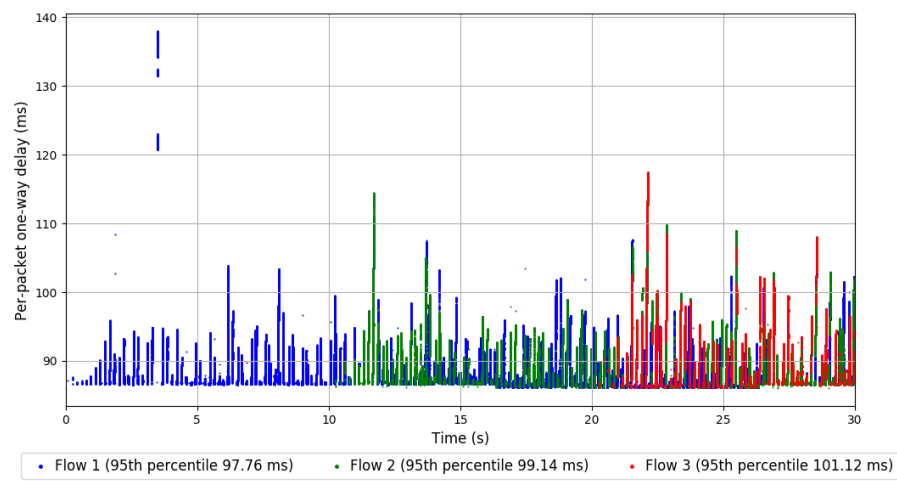
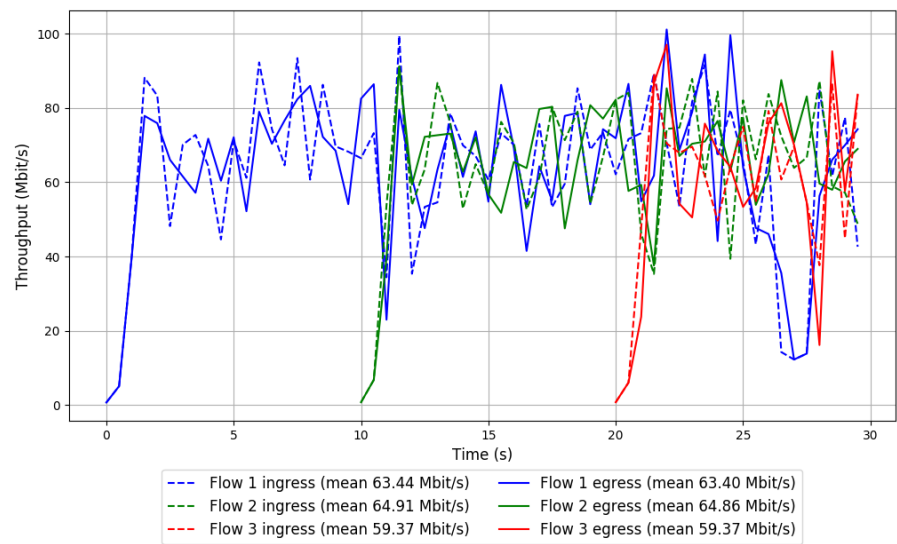
-- Flow 3:

Average throughput: 59.37 Mbit/s

95th percentile per-packet one-way delay: 101.117 ms

Loss rate: 0.00%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2017-11-21 16:30:51

End at: 2017-11-21 16:31:21

Below is generated by plot.py at 2017-11-21 18:28:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 124.90 Mbit/s

95th percentile per-packet one-way delay: 100.330 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 62.41 Mbit/s

95th percentile per-packet one-way delay: 96.080 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 63.71 Mbit/s

95th percentile per-packet one-way delay: 99.724 ms

Loss rate: 0.00%

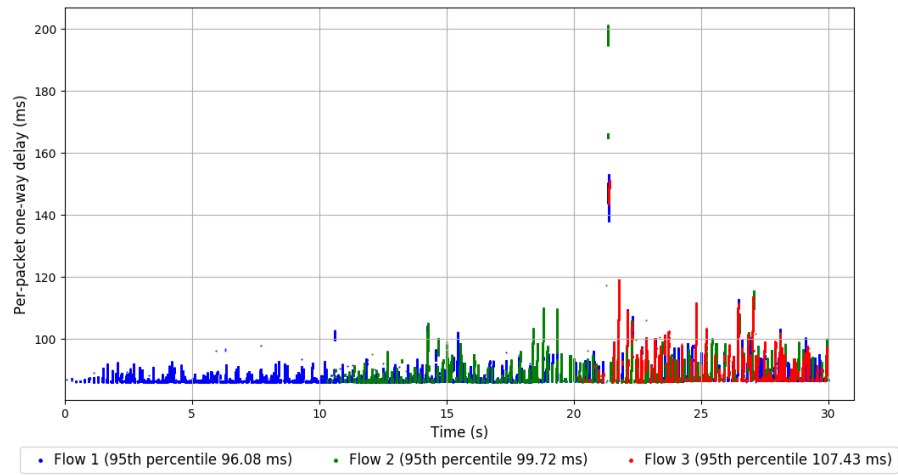
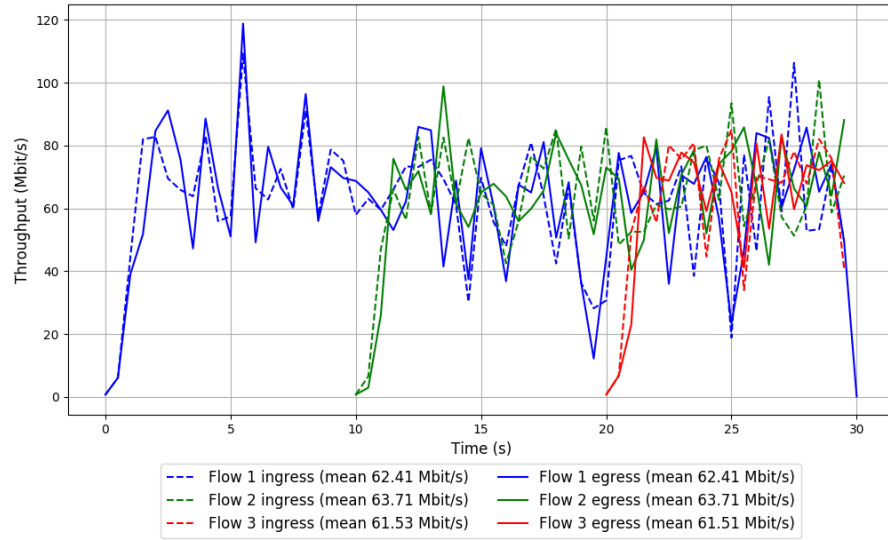
-- Flow 3:

Average throughput: 61.51 Mbit/s

95th percentile per-packet one-way delay: 107.430 ms

Loss rate: 0.02%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2017-11-21 16:43:48

End at: 2017-11-21 16:44:18

Below is generated by plot.py at 2017-11-21 18:30:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 132.16 Mbit/s

95th percentile per-packet one-way delay: 95.817 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 61.16 Mbit/s

95th percentile per-packet one-way delay: 94.263 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 67.04 Mbit/s

95th percentile per-packet one-way delay: 97.451 ms

Loss rate: 0.00%

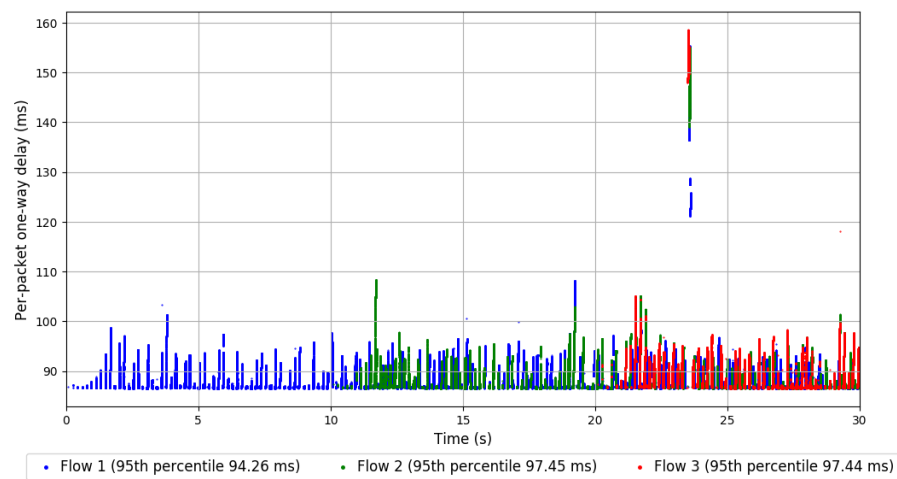
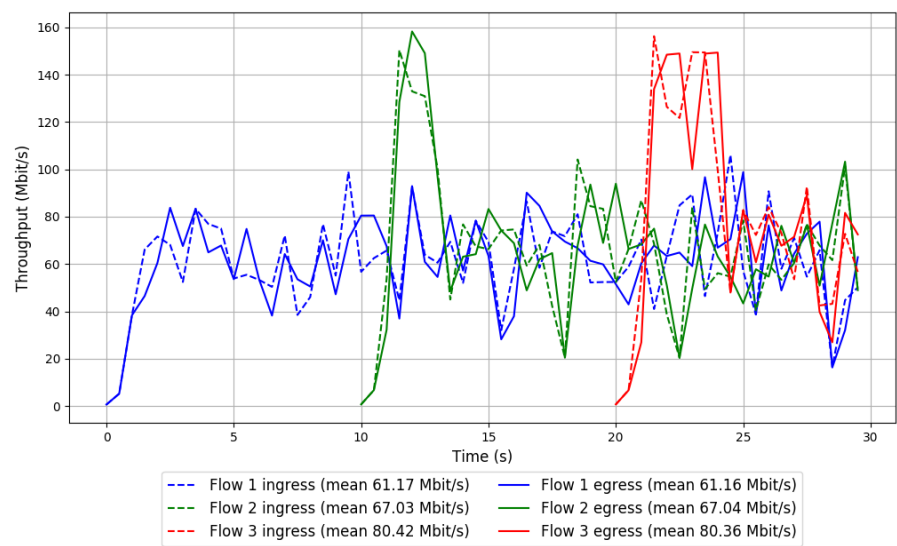
-- Flow 3:

Average throughput: 80.36 Mbit/s

95th percentile per-packet one-way delay: 97.445 ms

Loss rate: 0.00%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2017-11-21 16:56:56

End at: 2017-11-21 16:57:26

Below is generated by plot.py at 2017-11-21 18:30:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 118.59 Mbit/s

95th percentile per-packet one-way delay: 94.609 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 59.77 Mbit/s

95th percentile per-packet one-way delay: 93.598 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 59.40 Mbit/s

95th percentile per-packet one-way delay: 96.588 ms

Loss rate: 0.00%

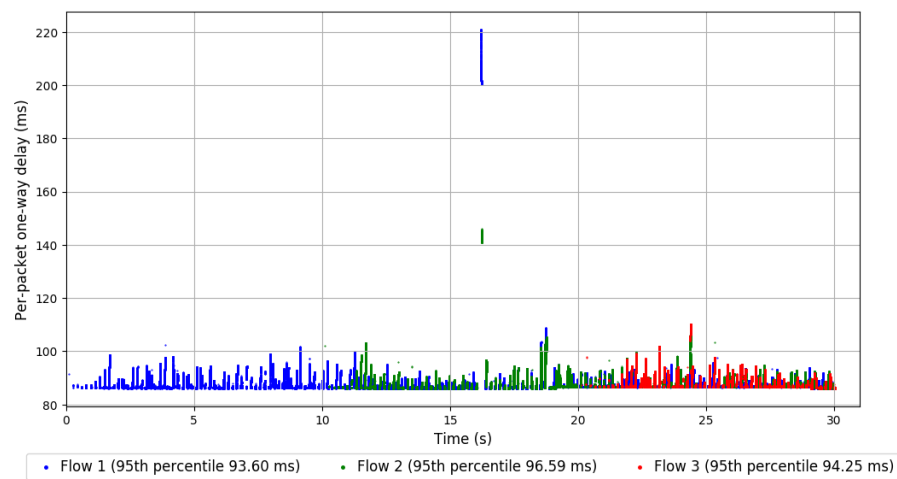
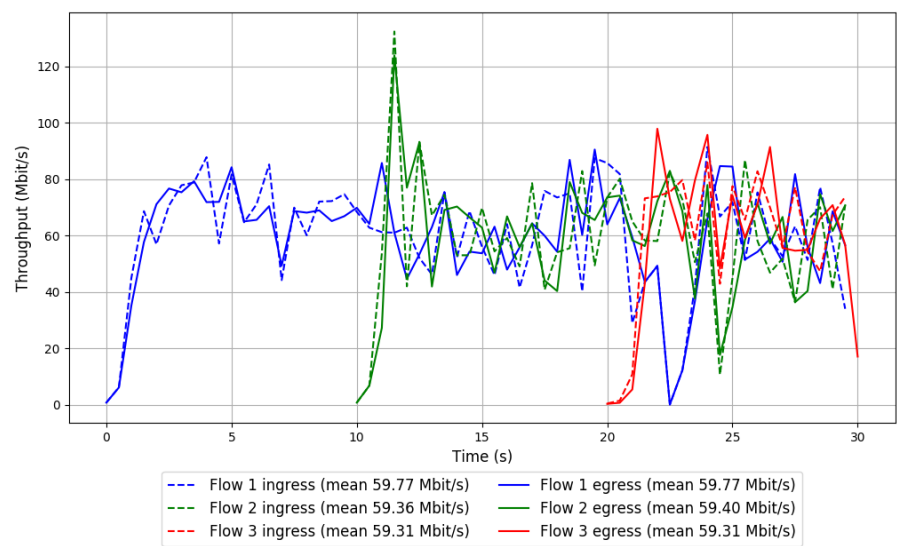
-- Flow 3:

Average throughput: 59.31 Mbit/s

95th percentile per-packet one-way delay: 94.250 ms

Loss rate: 0.01%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2017-11-21 15:02:34

End at: 2017-11-21 15:03:04

Below is generated by plot.py at 2017-11-21 18:31:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 164.39 Mbit/s

95th percentile per-packet one-way delay: 92.898 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 86.73 Mbit/s

95th percentile per-packet one-way delay: 91.228 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 81.38 Mbit/s

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

Loss rate: 0.00%

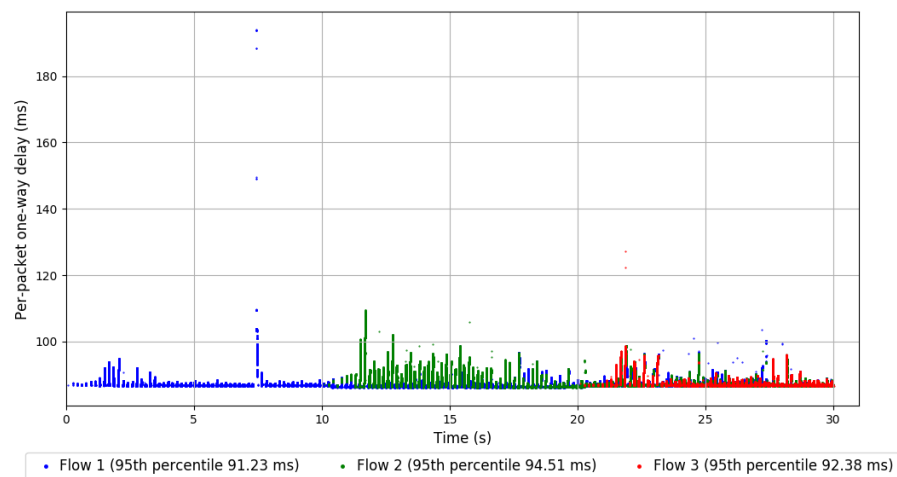
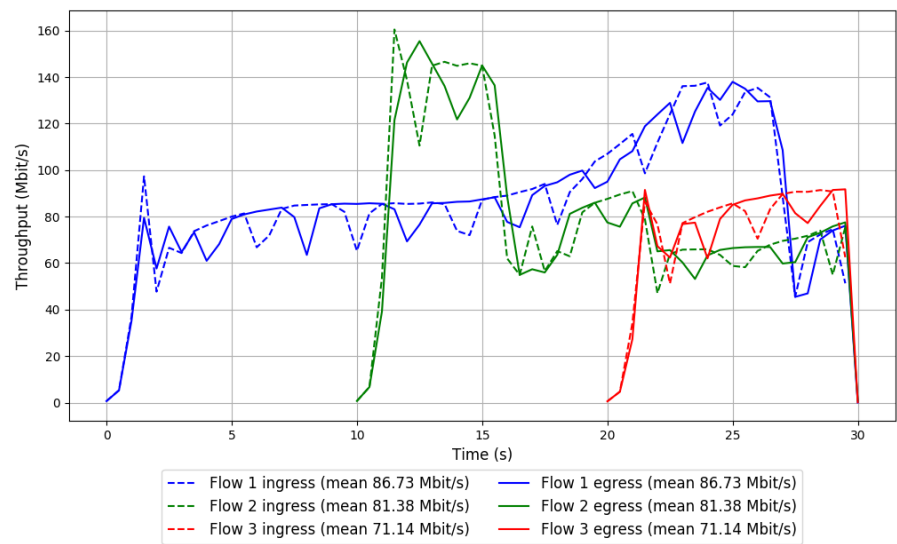
-- Flow 3:

Average throughput: 71.14 Mbit/s

95th percentile per-packet one-way delay: 92.379 ms

Loss rate: 0.00%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2017-11-21 15:15:42

End at: 2017-11-21 15:16:12

Below is generated by plot.py at 2017-11-21 18:31:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 148.18 Mbit/s

95th percentile per-packet one-way delay: 88.555 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 81.51 Mbit/s

95th percentile per-packet one-way delay: 88.320 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 68.83 Mbit/s

95th percentile per-packet one-way delay: 88.631 ms

Loss rate: 0.00%

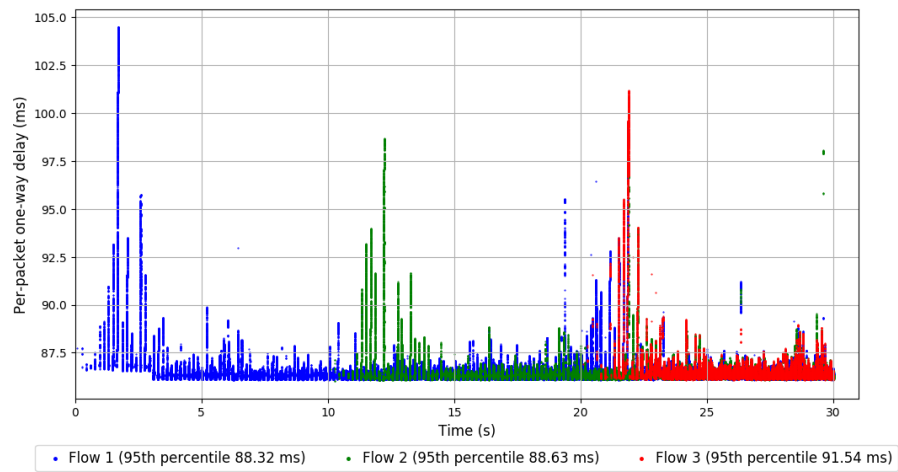
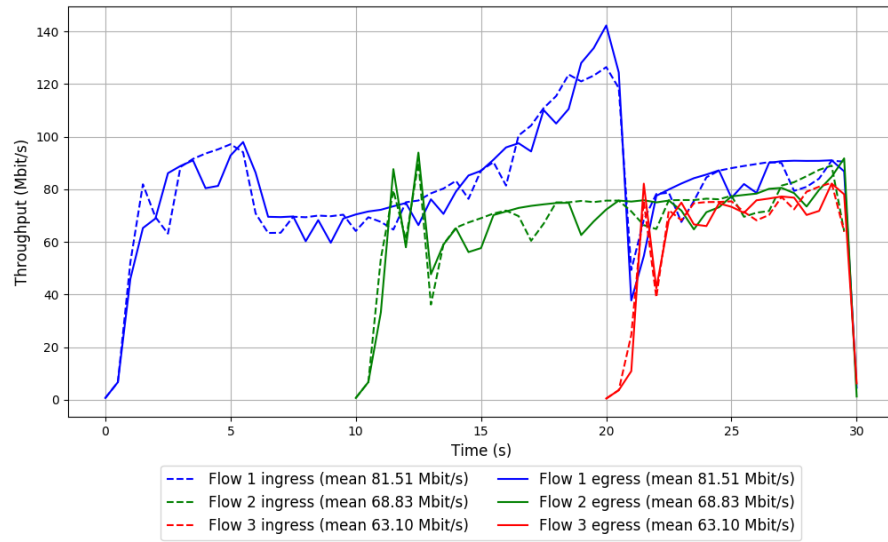
-- Flow 3:

Average throughput: 63.10 Mbit/s

95th percentile per-packet one-way delay: 91.540 ms

Loss rate: 0.00%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2017-11-21 15:29:06

End at: 2017-11-21 15:29:36

Below is generated by plot.py at 2017-11-21 18:31:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 168.91 Mbit/s

95th percentile per-packet one-way delay: 92.540 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 97.32 Mbit/s

95th percentile per-packet one-way delay: 92.361 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 66.57 Mbit/s

95th percentile per-packet one-way delay: 92.575 ms

Loss rate: 0.00%

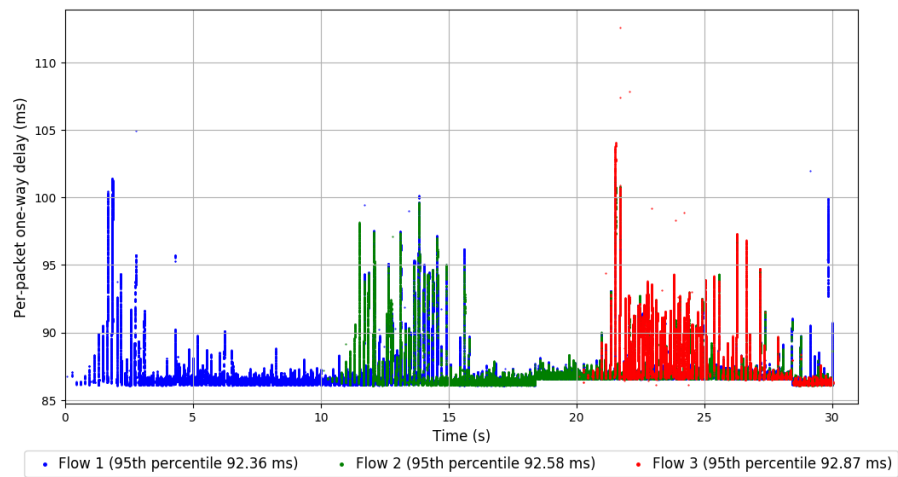
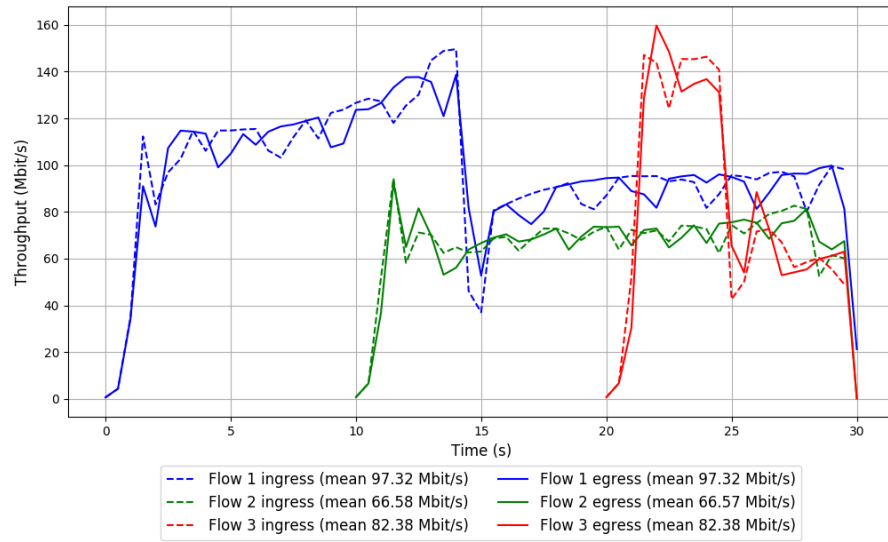
-- Flow 3:

Average throughput: 82.38 Mbit/s

95th percentile per-packet one-way delay: 92.869 ms

Loss rate: 0.00%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2017-11-21 15:42:12

End at: 2017-11-21 15:42:42

Below is generated by plot.py at 2017-11-21 18:31:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 167.95 Mbit/s

95th percentile per-packet one-way delay: 88.962 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 101.95 Mbit/s

95th percentile per-packet one-way delay: 88.408 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 66.17 Mbit/s

95th percentile per-packet one-way delay: 90.176 ms

Loss rate: 0.00%

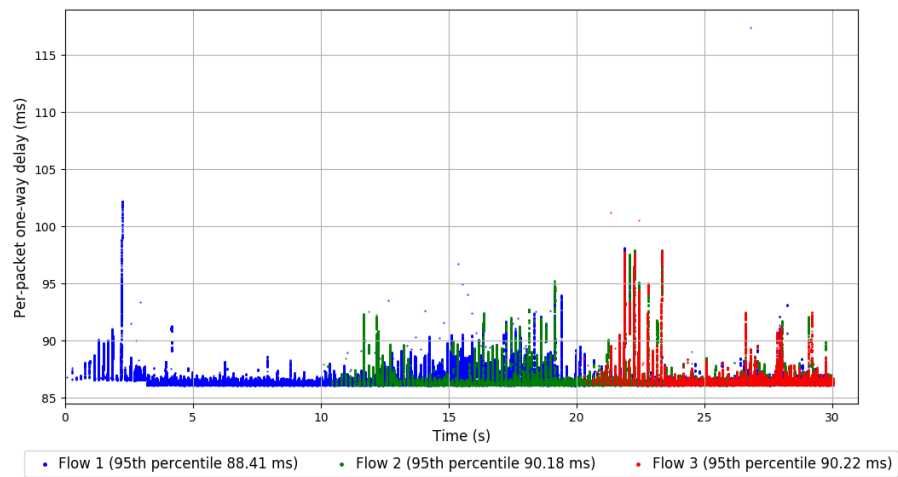
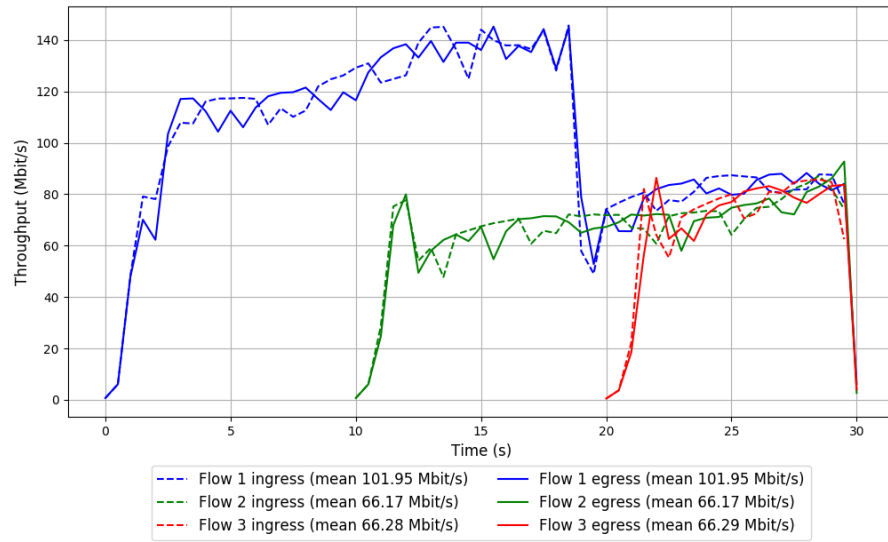
-- Flow 3:

Average throughput: 66.29 Mbit/s

95th percentile per-packet one-way delay: 90.219 ms

Loss rate: 0.00%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2017-11-21 15:55:17

End at: 2017-11-21 15:55:47

Below is generated by plot.py at 2017-11-21 18:31:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 151.46 Mbit/s

95th percentile per-packet one-way delay: 95.492 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 80.71 Mbit/s

95th percentile per-packet one-way delay: 94.457 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 74.51 Mbit/s

95th percentile per-packet one-way delay: 101.328 ms

Loss rate: 0.01%

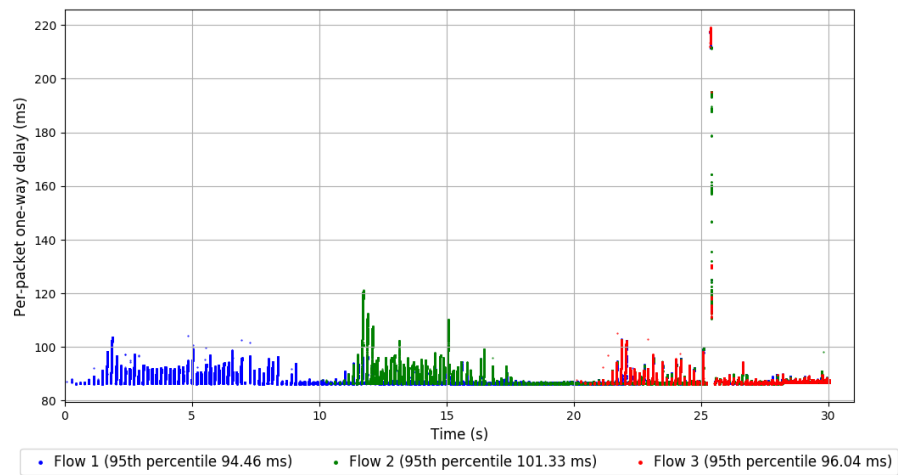
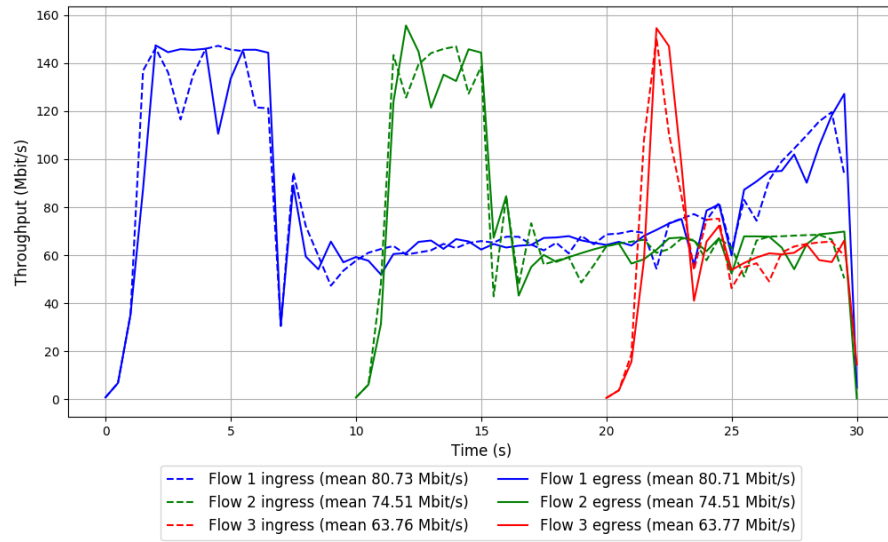
-- Flow 3:

Average throughput: 63.77 Mbit/s

95th percentile per-packet one-way delay: 96.041 ms

Loss rate: 0.00%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2017-11-21 16:08:21

End at: 2017-11-21 16:08:51

Below is generated by plot.py at 2017-11-21 18:31:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 142.10 Mbit/s

95th percentile per-packet one-way delay: 90.986 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 78.46 Mbit/s

95th percentile per-packet one-way delay: 90.550 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 62.31 Mbit/s

95th percentile per-packet one-way delay: 92.382 ms

Loss rate: 0.00%

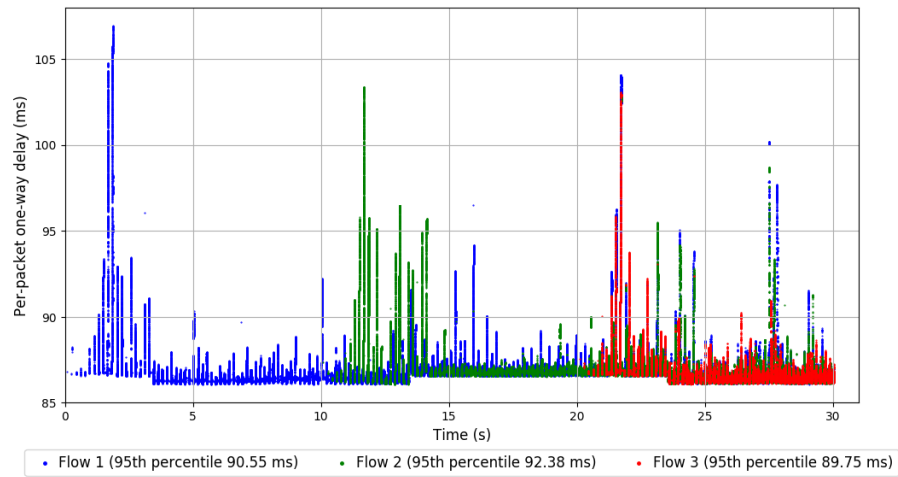
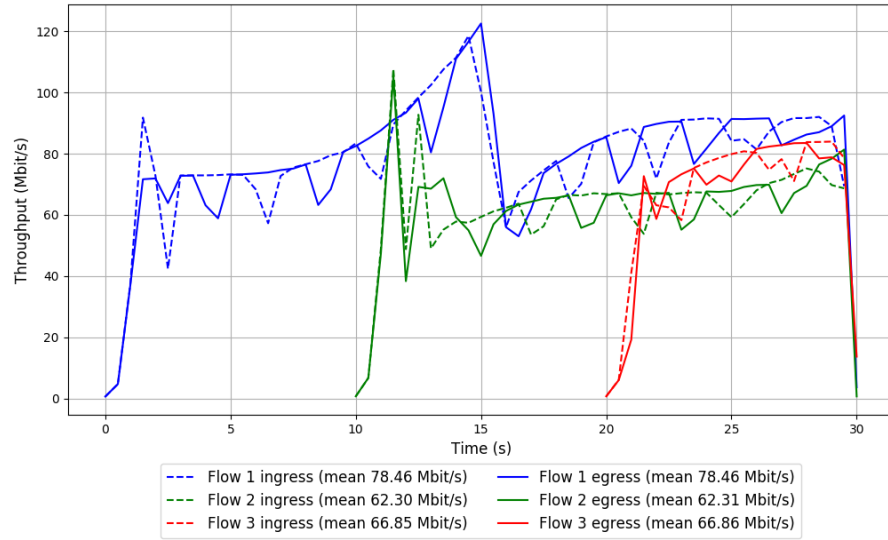
-- Flow 3:

Average throughput: 66.86 Mbit/s

95th percentile per-packet one-way delay: 89.748 ms

Loss rate: 0.00%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2017-11-21 16:21:34

End at: 2017-11-21 16:22:04

Below is generated by plot.py at 2017-11-21 18:32:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 106.89 Mbit/s

95th percentile per-packet one-way delay: 91.823 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 74.97 Mbit/s

95th percentile per-packet one-way delay: 91.715 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 15.98 Mbit/s

95th percentile per-packet one-way delay: 88.690 ms

Loss rate: 0.00%

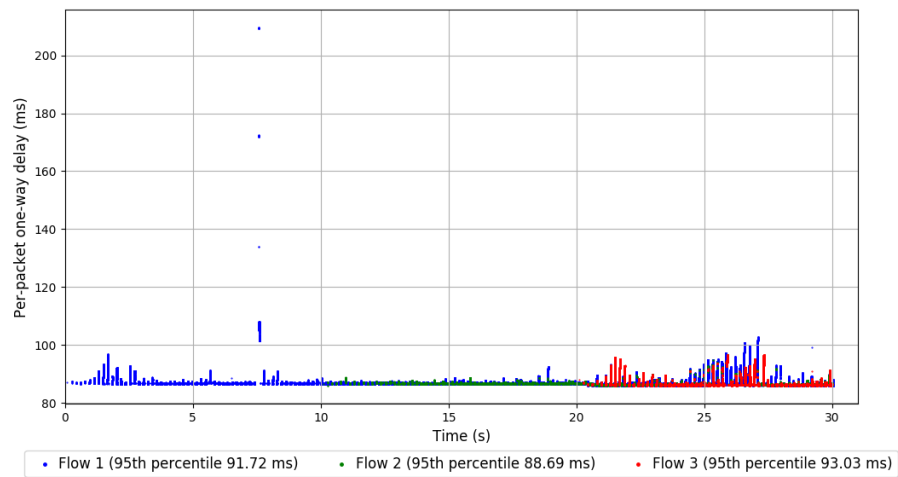
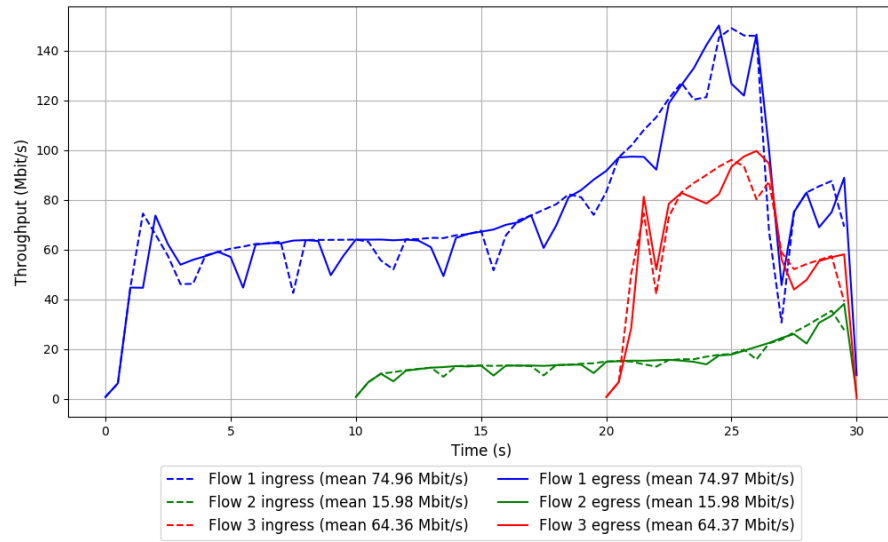
-- Flow 3:

Average throughput: 64.37 Mbit/s

95th percentile per-packet one-way delay: 93.031 ms

Loss rate: 0.00%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2017-11-21 16:34:37

End at: 2017-11-21 16:35:07

Below is generated by plot.py at 2017-11-21 18:34:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 165.09 Mbit/s

95th percentile per-packet one-way delay: 90.193 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 97.38 Mbit/s

95th percentile per-packet one-way delay: 90.245 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 63.67 Mbit/s

95th percentile per-packet one-way delay: 90.556 ms

Loss rate: 0.00%

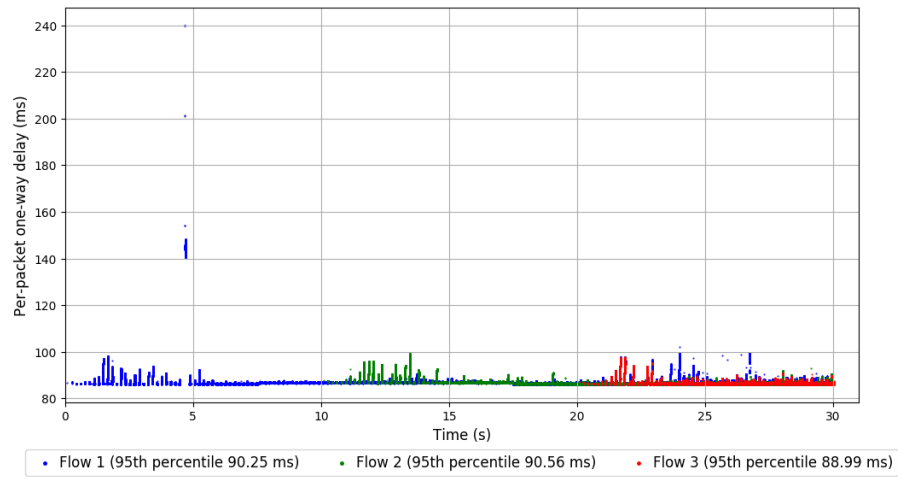
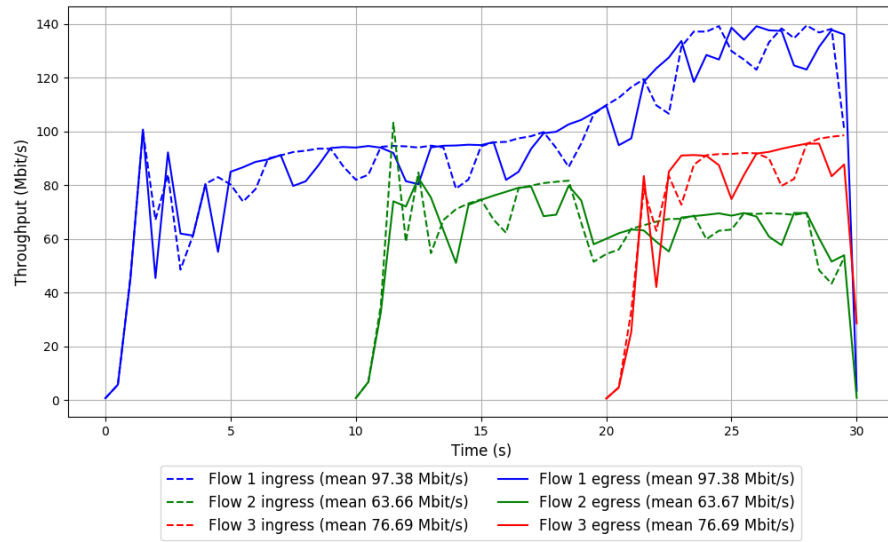
-- Flow 3:

Average throughput: 76.69 Mbit/s

95th percentile per-packet one-way delay: 88.991 ms

Loss rate: 0.00%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2017-11-21 16:47:46

End at: 2017-11-21 16:48:16

Below is generated by plot.py at 2017-11-21 18:34:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 118.98 Mbit/s

95th percentile per-packet one-way delay: 90.212 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 70.87 Mbit/s

95th percentile per-packet one-way delay: 90.246 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 70.93 Mbit/s

95th percentile per-packet one-way delay: 90.193 ms

Loss rate: 0.01%

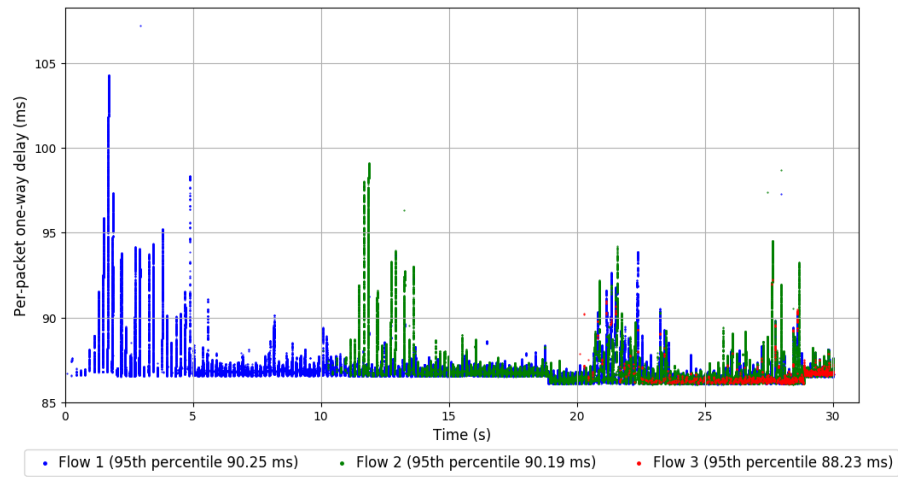
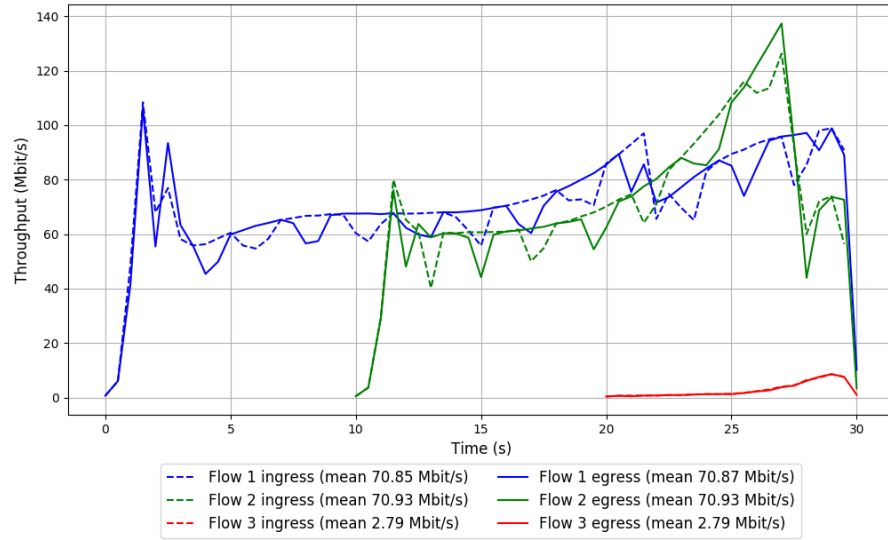
-- Flow 3:

Average throughput: 2.79 Mbit/s

95th percentile per-packet one-way delay: 88.228 ms

Loss rate: 0.04%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2017-11-21 17:00:51

End at: 2017-11-21 17:01:21

Below is generated by plot.py at 2017-11-21 18:34:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 102.85 Mbit/s

95th percentile per-packet one-way delay: 91.240 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 58.62 Mbit/s

95th percentile per-packet one-way delay: 89.524 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 60.11 Mbit/s

95th percentile per-packet one-way delay: 93.060 ms

Loss rate: 0.03%

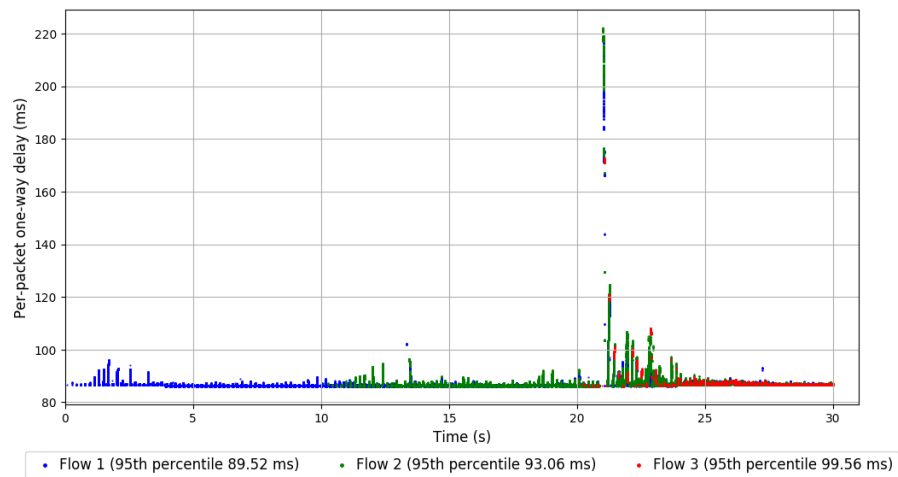
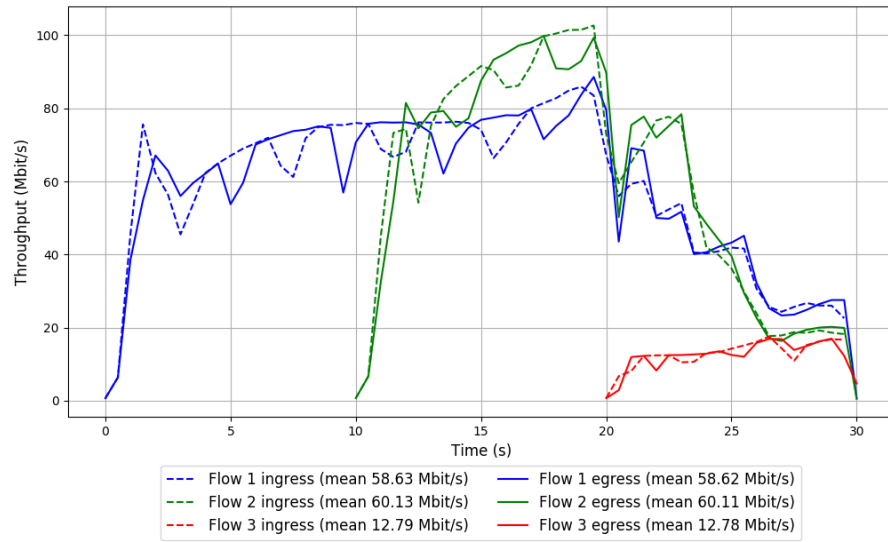
-- Flow 3:

Average throughput: 12.78 Mbit/s

95th percentile per-packet one-way delay: 99.561 ms

Loss rate: 0.03%

Run 10: Report of TCP Cubic — Data Link

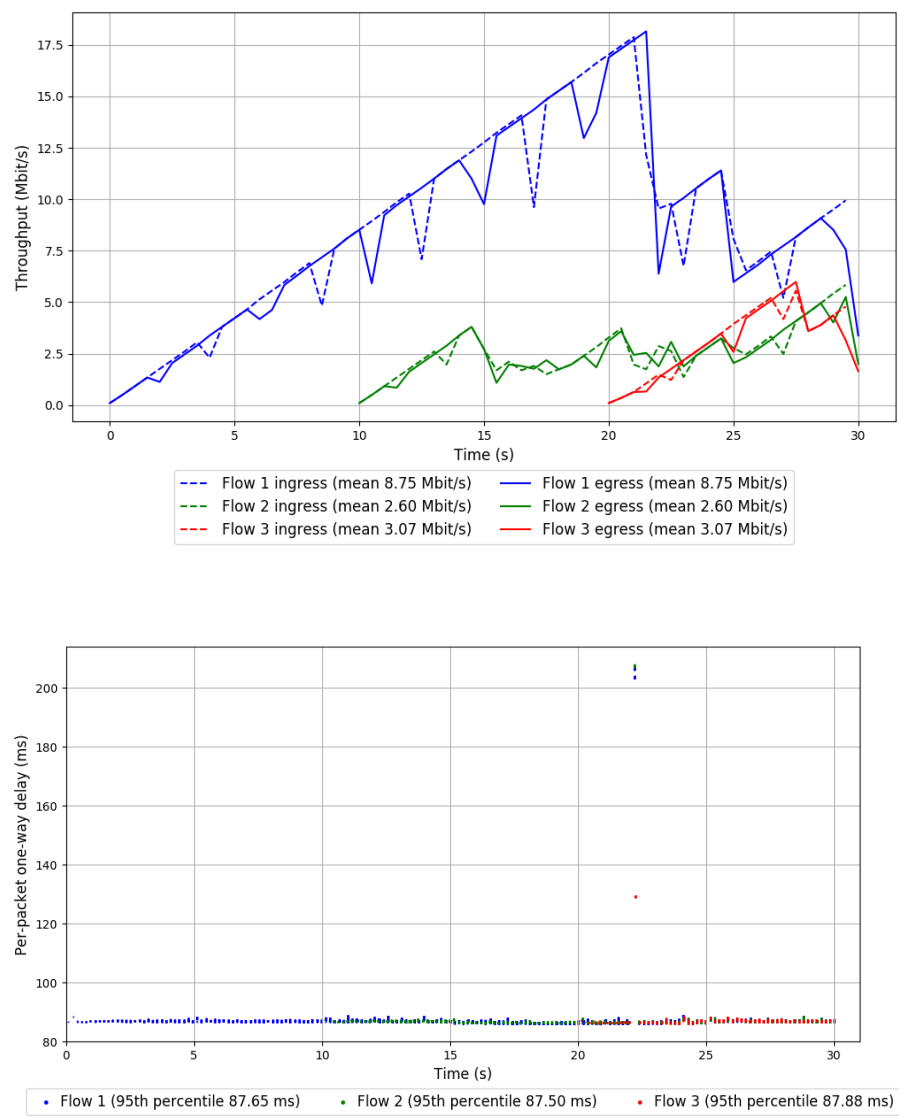


```
Run 1: Statistics of LEDBAT

Start at: 2017-11-21 15:04:20
End at: 2017-11-21 15:04:50

# Below is generated by plot.py at 2017-11-21 18:34:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 11.49 Mbit/s
95th percentile per-packet one-way delay: 87.638 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 8.75 Mbit/s
95th percentile per-packet one-way delay: 87.654 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 2.60 Mbit/s
95th percentile per-packet one-way delay: 87.501 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 3.07 Mbit/s
95th percentile per-packet one-way delay: 87.875 ms
Loss rate: 0.00%
```


Run 1: Report of LEDBAT — Data Link

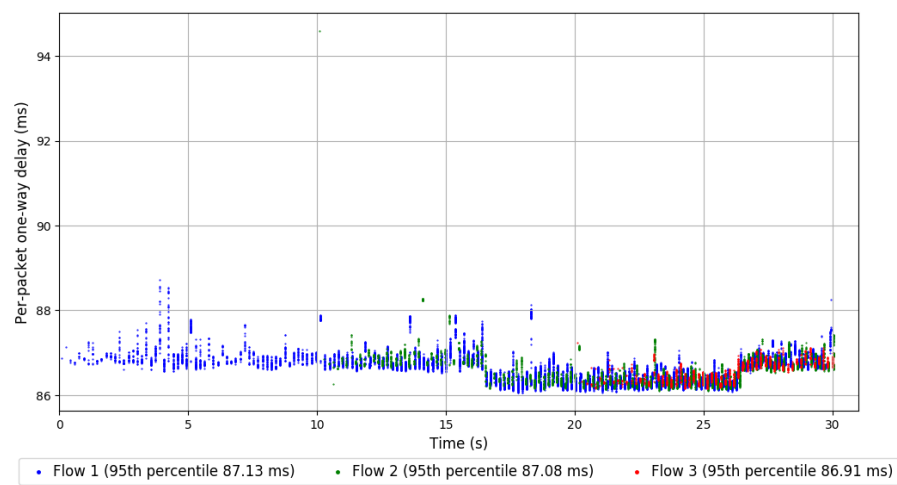
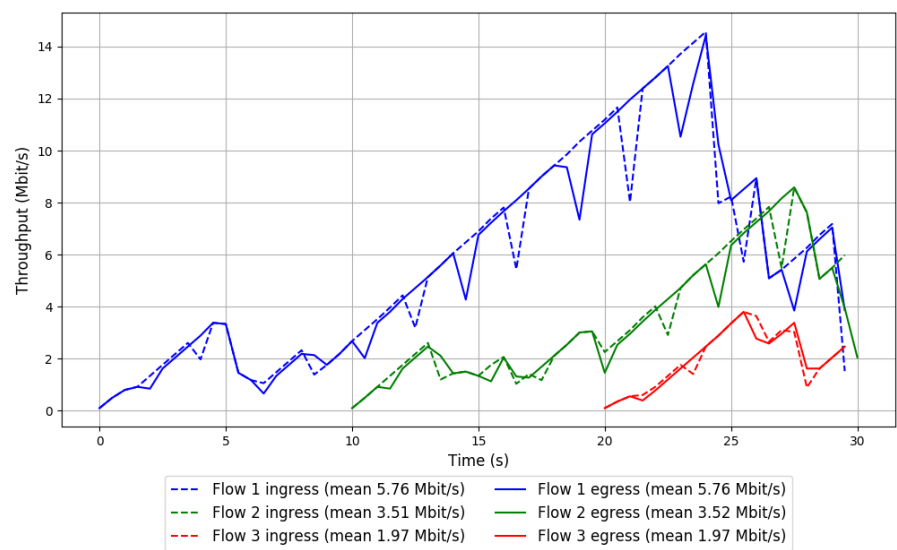


```
Run 2: Statistics of LEDBAT

Start at: 2017-11-21 15:17:28
End at: 2017-11-21 15:17:58

# Below is generated by plot.py at 2017-11-21 18:34:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.73 Mbit/s
95th percentile per-packet one-way delay: 87.092 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 5.76 Mbit/s
95th percentile per-packet one-way delay: 87.132 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 3.52 Mbit/s
95th percentile per-packet one-way delay: 87.075 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 1.97 Mbit/s
95th percentile per-packet one-way delay: 86.907 ms
Loss rate: 0.00%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2017-11-21 15:30:52

End at: 2017-11-21 15:31:22

Below is generated by plot.py at 2017-11-21 18:34:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.79 Mbit/s

95th percentile per-packet one-way delay: 87.454 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 10.74 Mbit/s

95th percentile per-packet one-way delay: 87.484 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 6.16 Mbit/s

95th percentile per-packet one-way delay: 87.472 ms

Loss rate: 0.03%

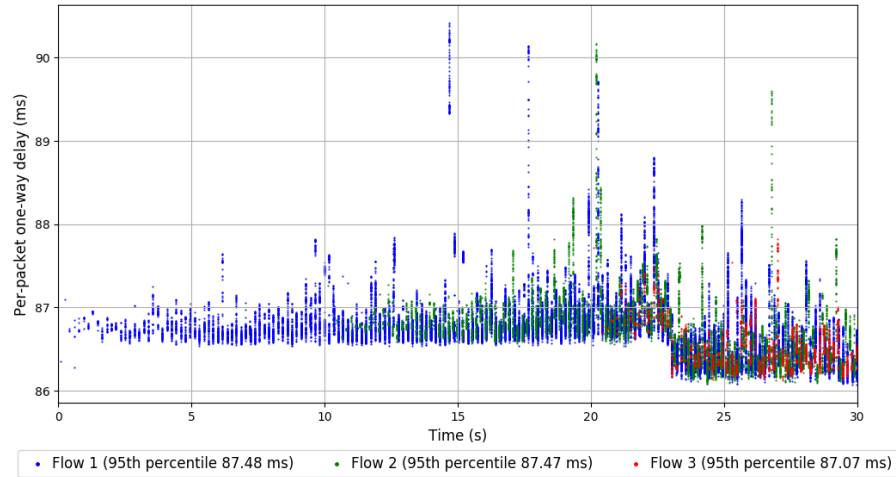
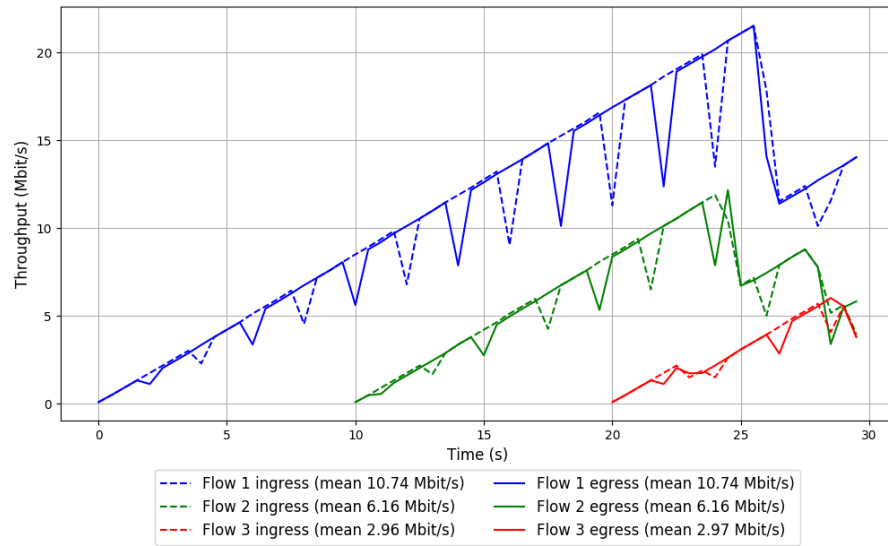
-- Flow 3:

Average throughput: 2.97 Mbit/s

95th percentile per-packet one-way delay: 87.074 ms

Loss rate: 0.00%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2017-11-21 15:43:58

End at: 2017-11-21 15:44:28

Below is generated by plot.py at 2017-11-21 18:34:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 8.33 Mbit/s

95th percentile per-packet one-way delay: 86.999 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 5.01 Mbit/s

95th percentile per-packet one-way delay: 87.037 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 3.26 Mbit/s

95th percentile per-packet one-way delay: 86.954 ms

Loss rate: 0.02%

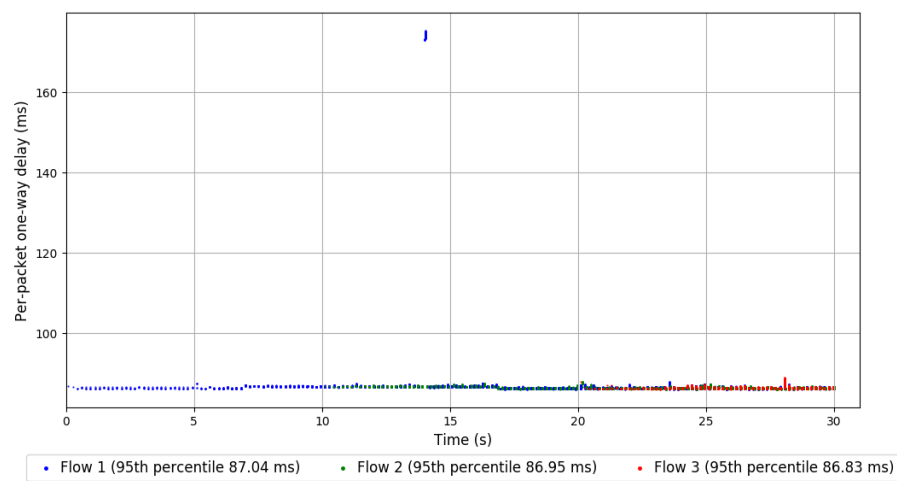
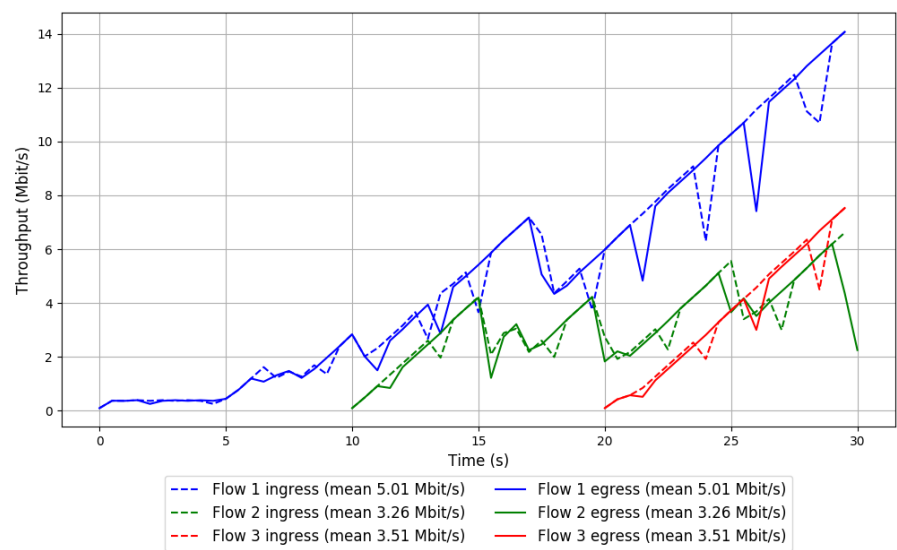
-- Flow 3:

Average throughput: 3.51 Mbit/s

95th percentile per-packet one-way delay: 86.829 ms

Loss rate: 0.00%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2017-11-21 15:57:03

End at: 2017-11-21 15:57:33

Below is generated by plot.py at 2017-11-21 18:34:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 11.14 Mbit/s

95th percentile per-packet one-way delay: 87.282 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 8.56 Mbit/s

95th percentile per-packet one-way delay: 87.223 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 2.99 Mbit/s

95th percentile per-packet one-way delay: 87.301 ms

Loss rate: 0.02%

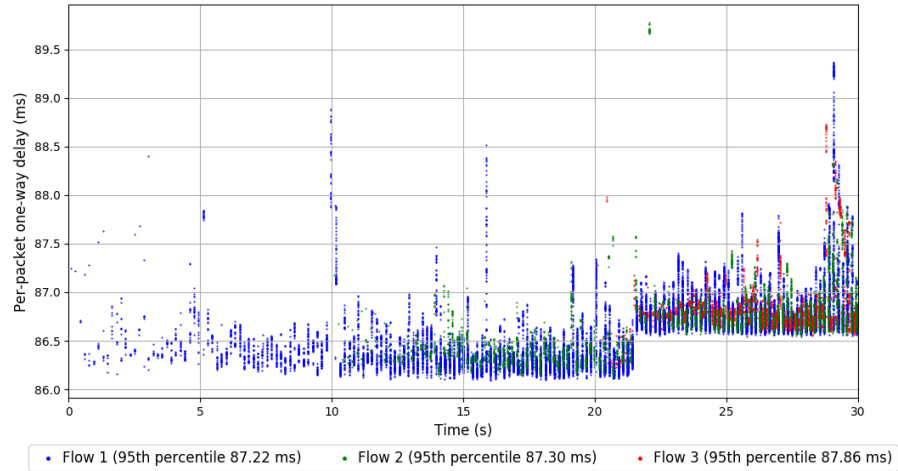
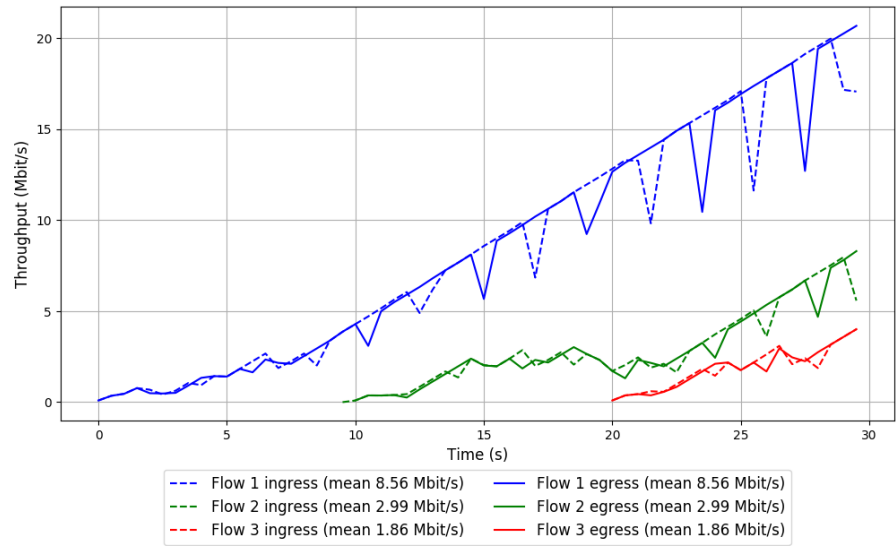
-- Flow 3:

Average throughput: 1.86 Mbit/s

95th percentile per-packet one-way delay: 87.857 ms

Loss rate: 0.00%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2017-11-21 16:10:06

End at: 2017-11-21 16:10:36

Below is generated by plot.py at 2017-11-21 18:34:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 8.32 Mbit/s

95th percentile per-packet one-way delay: 87.684 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 4.27 Mbit/s

95th percentile per-packet one-way delay: 87.588 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 4.16 Mbit/s

95th percentile per-packet one-way delay: 87.869 ms

Loss rate: 0.00%

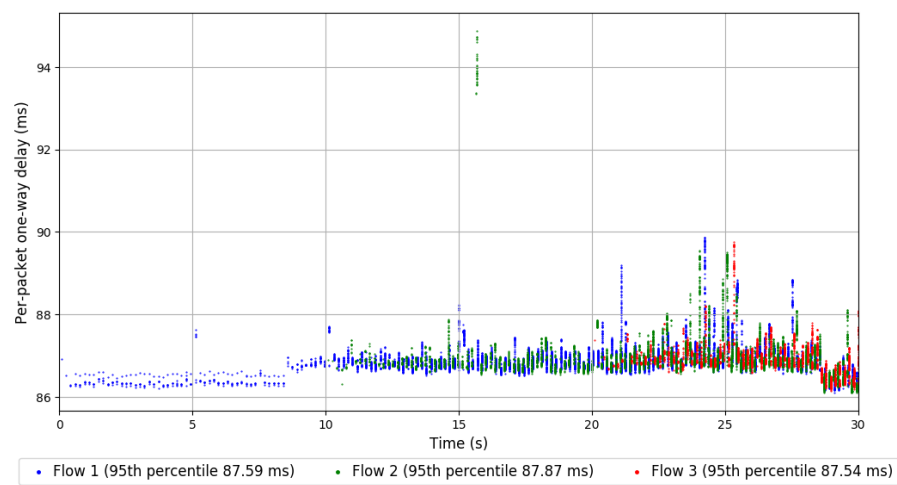
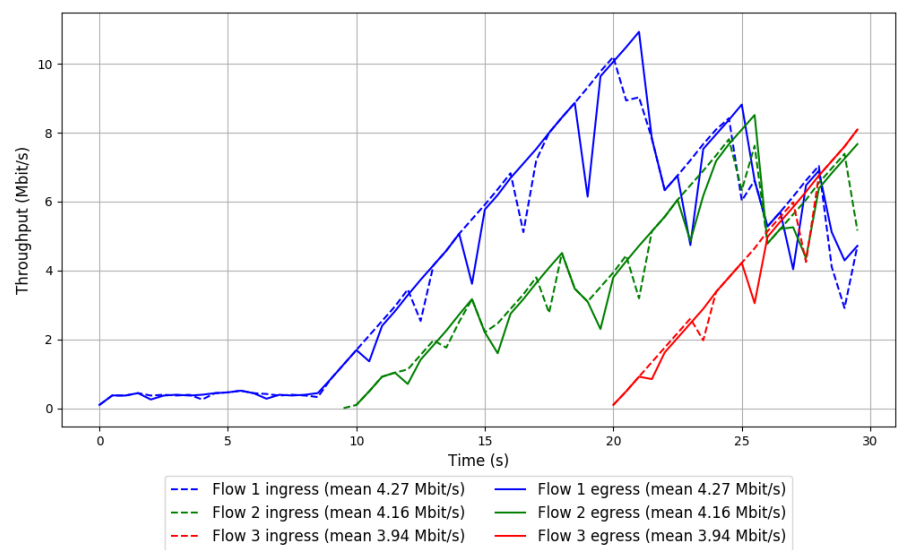
-- Flow 3:

Average throughput: 3.94 Mbit/s

95th percentile per-packet one-way delay: 87.536 ms

Loss rate: 0.00%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2017-11-21 16:23:16

End at: 2017-11-21 16:23:46

Below is generated by plot.py at 2017-11-21 18:34:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 8.77 Mbit/s

95th percentile per-packet one-way delay: 87.413 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 3.75 Mbit/s

95th percentile per-packet one-way delay: 87.446 ms

Loss rate: 0.11%

-- Flow 2:

Average throughput: 5.69 Mbit/s

95th percentile per-packet one-way delay: 87.467 ms

Loss rate: 0.00%

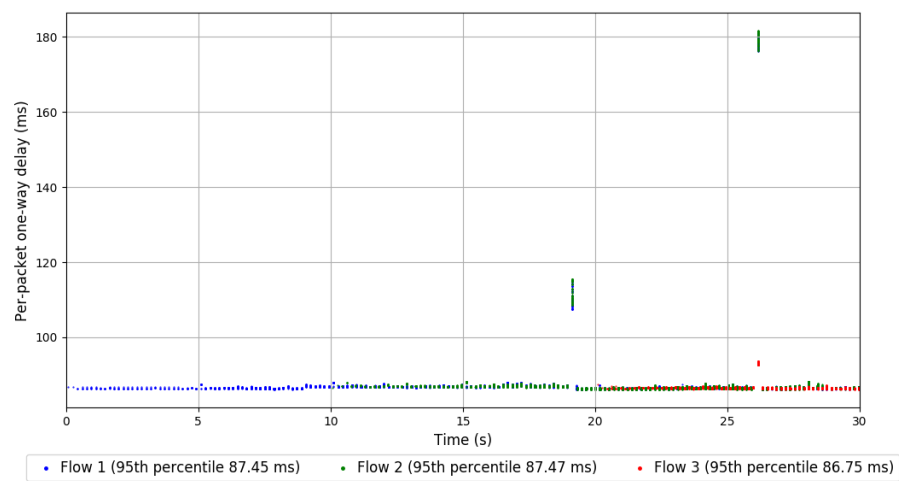
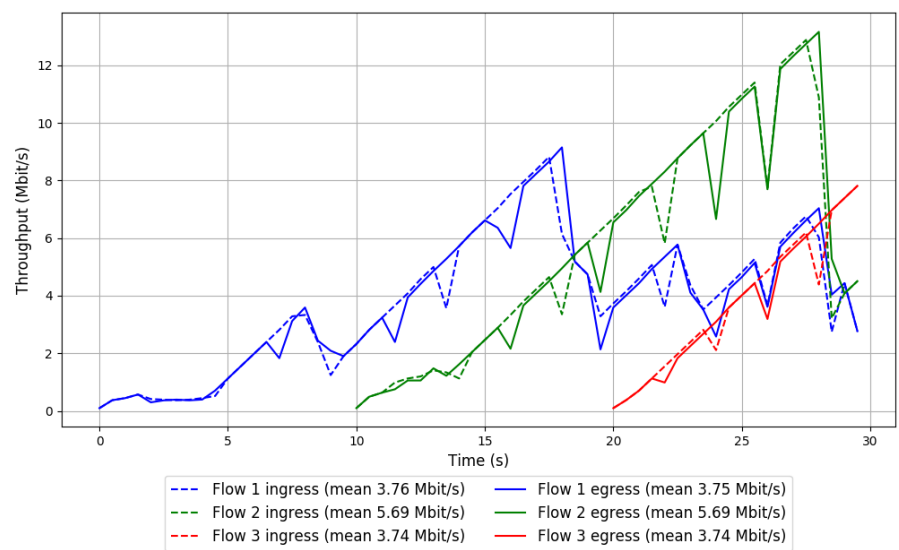
-- Flow 3:

Average throughput: 3.74 Mbit/s

95th percentile per-packet one-way delay: 86.750 ms

Loss rate: 0.00%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2017-11-21 16:36:24

End at: 2017-11-21 16:36:54

Below is generated by plot.py at 2017-11-21 18:34:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 8.46 Mbit/s

95th percentile per-packet one-way delay: 87.475 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 3.76 Mbit/s

95th percentile per-packet one-way delay: 87.682 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 5.60 Mbit/s

95th percentile per-packet one-way delay: 87.380 ms

Loss rate: 0.00%

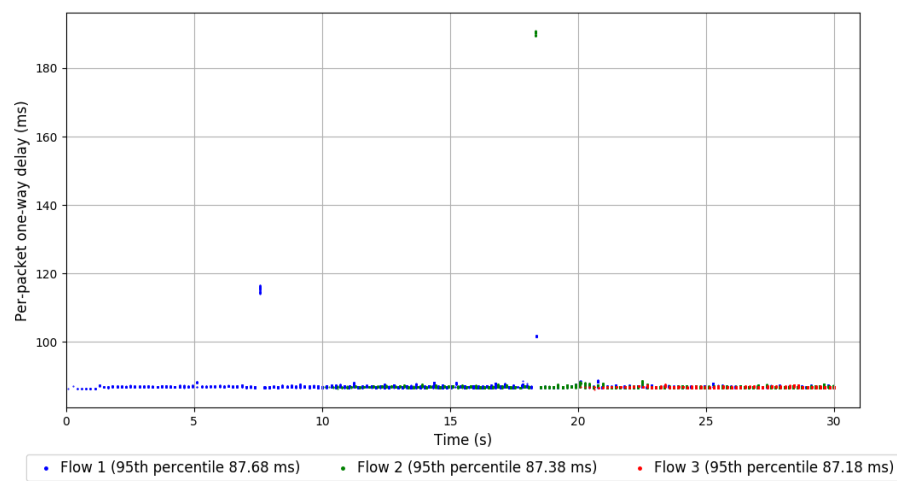
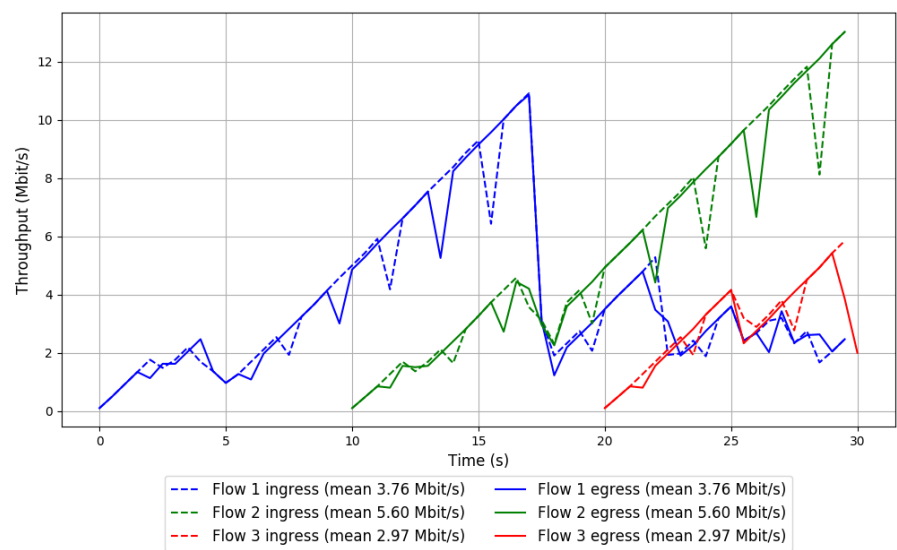
-- Flow 3:

Average throughput: 2.97 Mbit/s

95th percentile per-packet one-way delay: 87.177 ms

Loss rate: 0.00%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2017-11-21 16:49:28

End at: 2017-11-21 16:49:58

Below is generated by plot.py at 2017-11-21 18:34:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 12.68 Mbit/s

95th percentile per-packet one-way delay: 87.307 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 6.75 Mbit/s

95th percentile per-packet one-way delay: 87.400 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 7.29 Mbit/s

95th percentile per-packet one-way delay: 87.243 ms

Loss rate: 0.00%

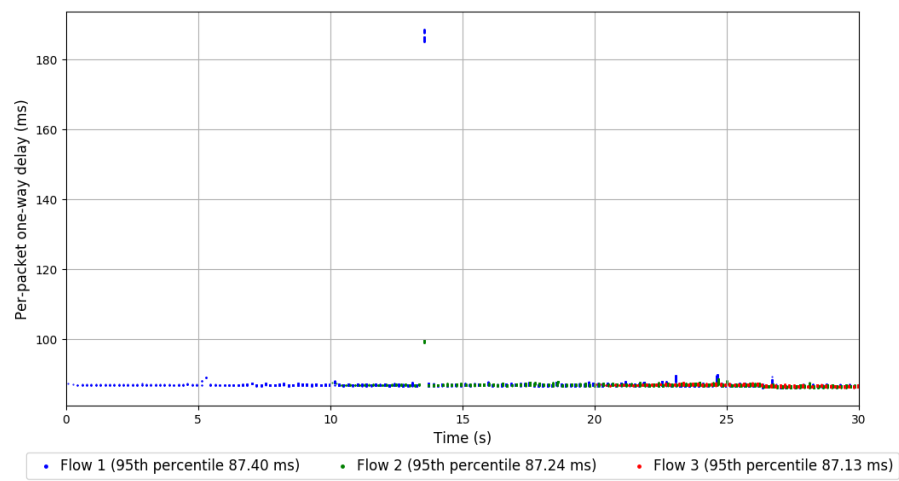
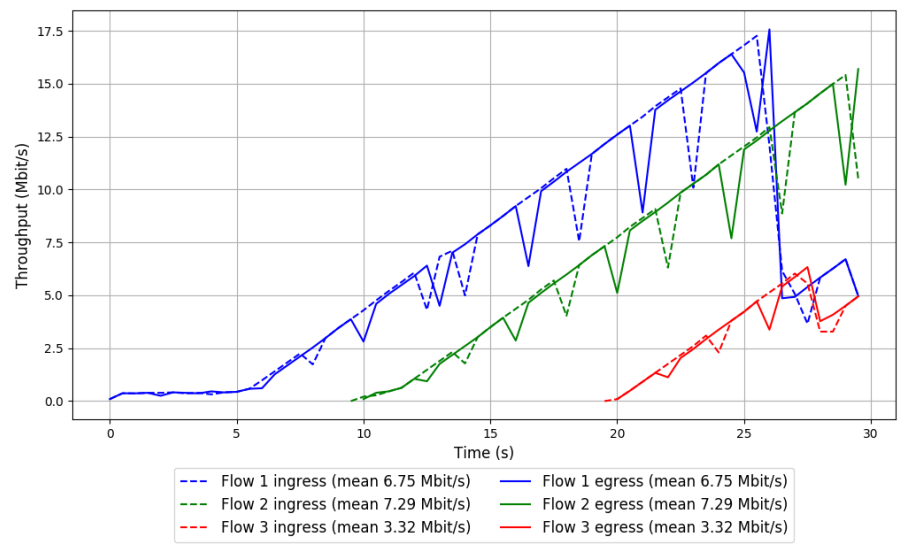
-- Flow 3:

Average throughput: 3.32 Mbit/s

95th percentile per-packet one-way delay: 87.133 ms

Loss rate: 0.00%

Run 9: Report of LEDBAT — Data Link

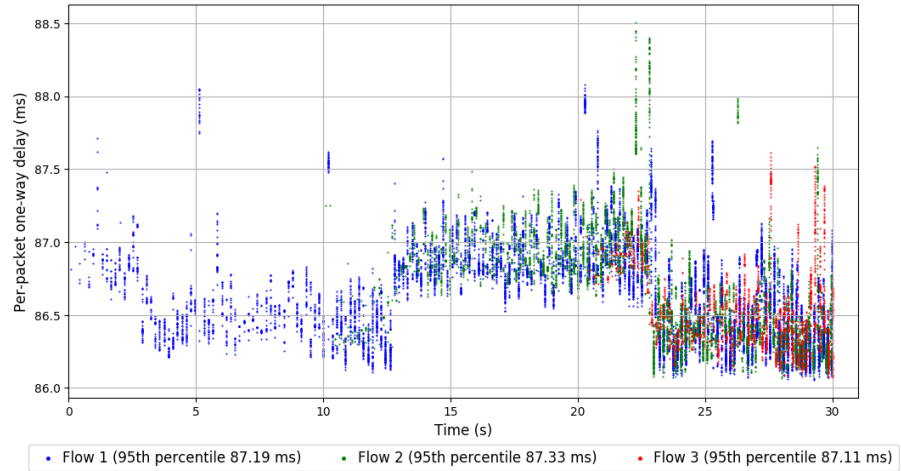
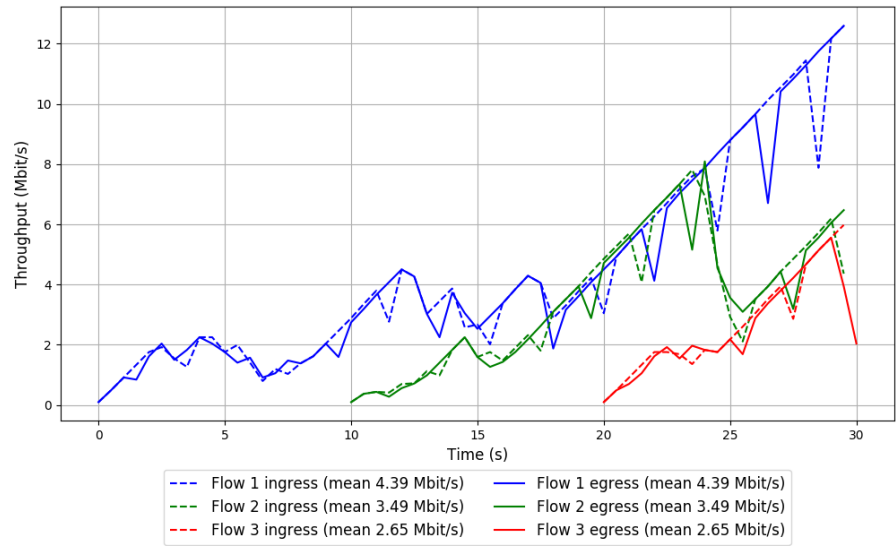


```
Run 10: Statistics of LEDBAT

Start at: 2017-11-21 17:02:32
End at: 2017-11-21 17:03:02

# Below is generated by plot.py at 2017-11-21 18:34:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 7.57 Mbit/s
95th percentile per-packet one-way delay: 87.226 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 4.39 Mbit/s
95th percentile per-packet one-way delay: 87.188 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 3.49 Mbit/s
95th percentile per-packet one-way delay: 87.332 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 2.65 Mbit/s
95th percentile per-packet one-way delay: 87.109 ms
Loss rate: 0.00%
```

Run 10: Report of LEDBAT — Data Link

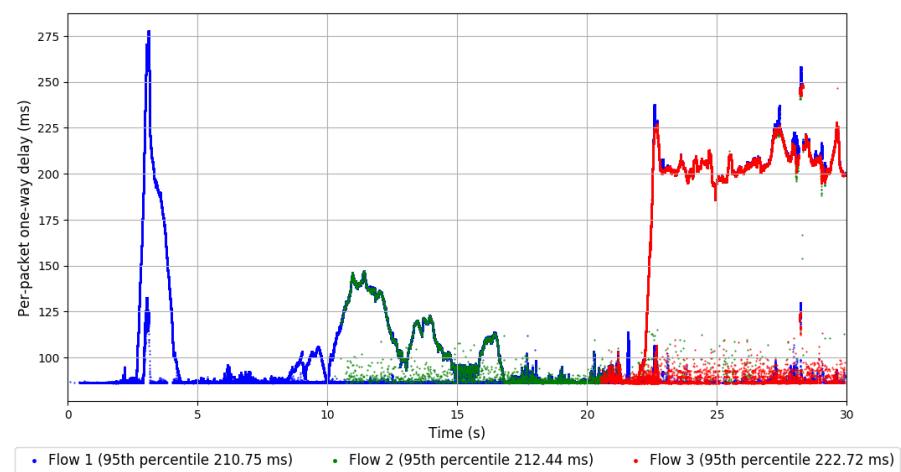
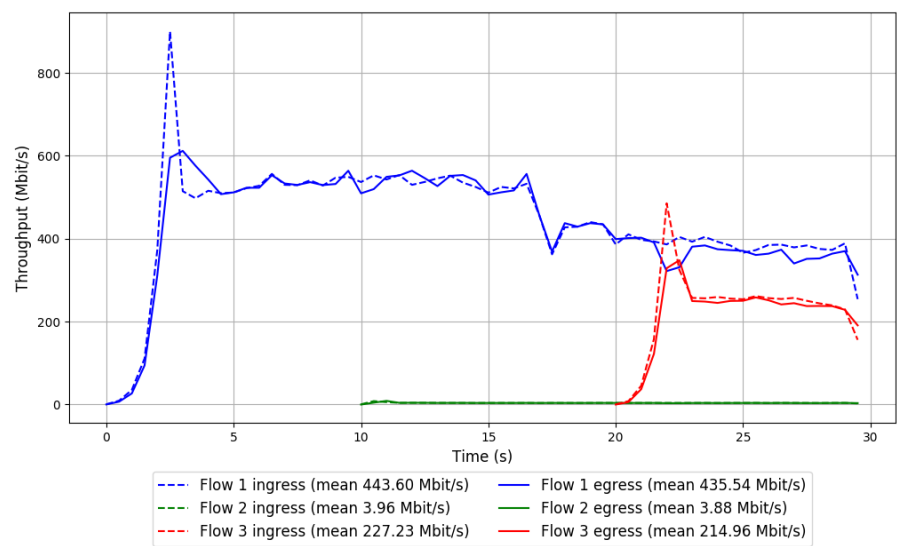


```
Run 1: Statistics of PCC

Start at: 2017-11-21 15:00:44
End at: 2017-11-21 15:01:14

# Below is generated by plot.py at 2017-11-21 18:42:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 508.71 Mbit/s
95th percentile per-packet one-way delay: 214.490 ms
Loss rate: 2.32%
-- Flow 1:
Average throughput: 435.54 Mbit/s
95th percentile per-packet one-way delay: 210.755 ms
Loss rate: 1.80%
-- Flow 2:
Average throughput: 3.88 Mbit/s
95th percentile per-packet one-way delay: 212.444 ms
Loss rate: 1.96%
-- Flow 3:
Average throughput: 214.96 Mbit/s
95th percentile per-packet one-way delay: 222.721 ms
Loss rate: 5.40%
```

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2017-11-21 15:13:51

End at: 2017-11-21 15:14:21

Below is generated by plot.py at 2017-11-21 18:42:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 524.53 Mbit/s

95th percentile per-packet one-way delay: 212.964 ms

Loss rate: 0.95%

-- Flow 1:

Average throughput: 479.77 Mbit/s

95th percentile per-packet one-way delay: 213.096 ms

Loss rate: 1.01%

-- Flow 2:

Average throughput: 66.30 Mbit/s

95th percentile per-packet one-way delay: 211.733 ms

Loss rate: 0.30%

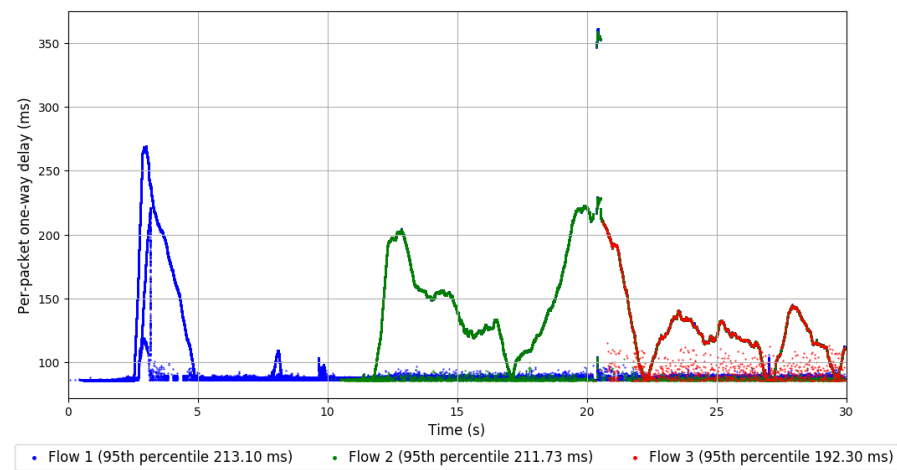
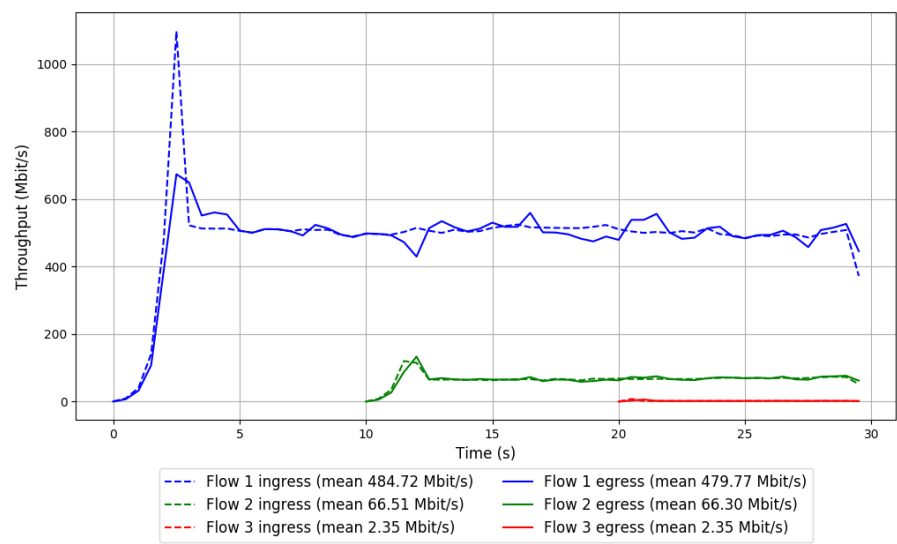
-- Flow 3:

Average throughput: 2.35 Mbit/s

95th percentile per-packet one-way delay: 192.302 ms

Loss rate: 0.21%

Run 2: Report of PCC — Data Link

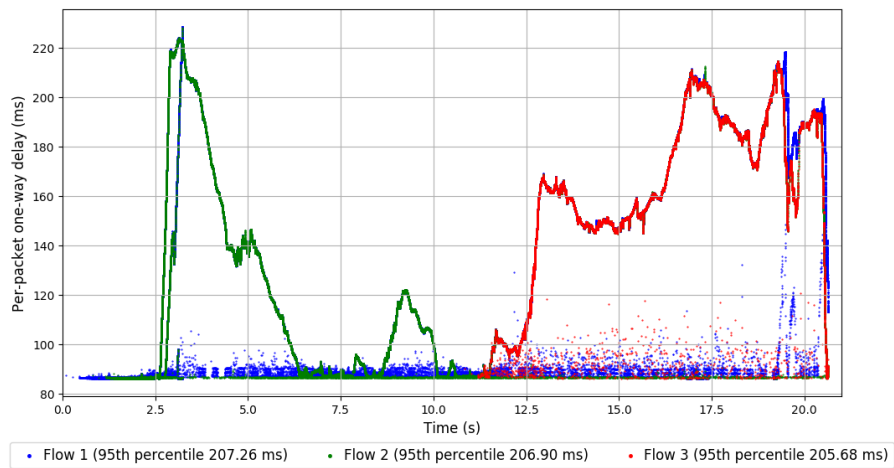
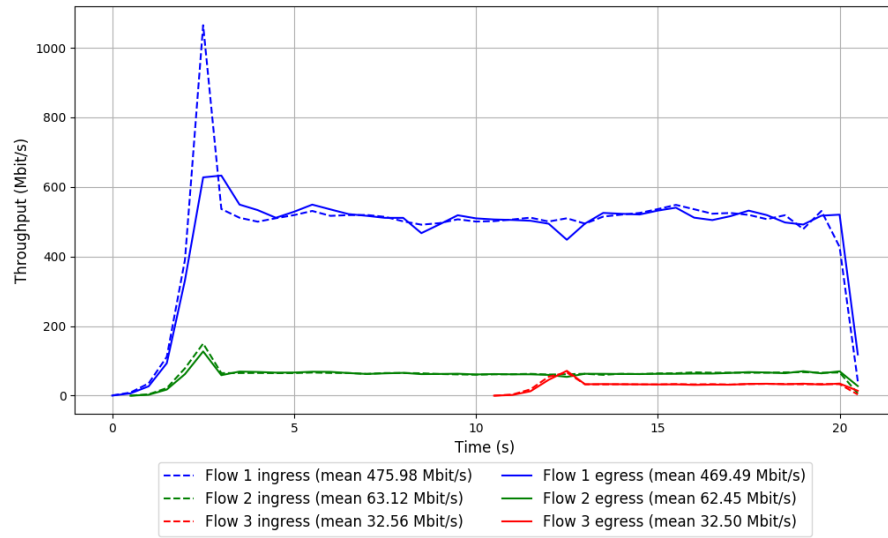


Run 3: Statistics of PCC

Start at: 2017-11-21 15:27:22

End at: 2017-11-21 15:27:52

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2017-11-21 15:40:21

End at: 2017-11-21 15:40:51

Below is generated by plot.py at 2017-11-21 18:42:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 515.17 Mbit/s

95th percentile per-packet one-way delay: 220.239 ms

Loss rate: 1.10%

-- Flow 1:

Average throughput: 487.73 Mbit/s

95th percentile per-packet one-way delay: 220.170 ms

Loss rate: 1.12%

-- Flow 2:

Average throughput: 32.83 Mbit/s

95th percentile per-packet one-way delay: 220.184 ms

Loss rate: 0.58%

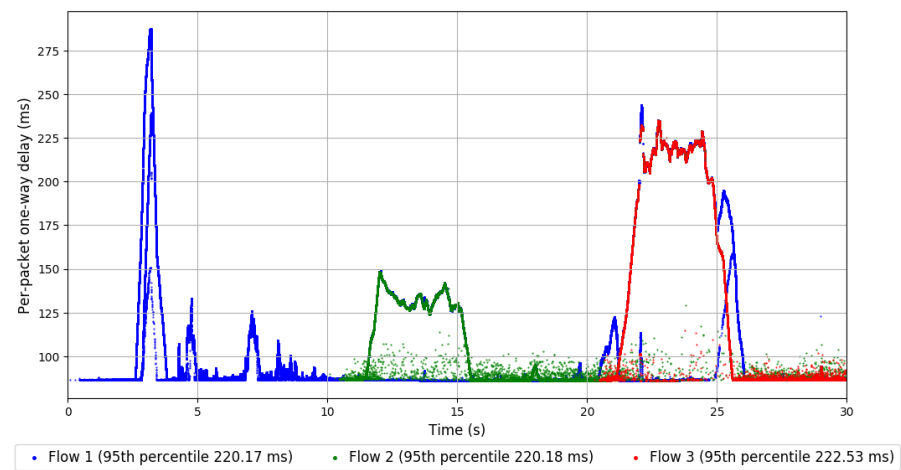
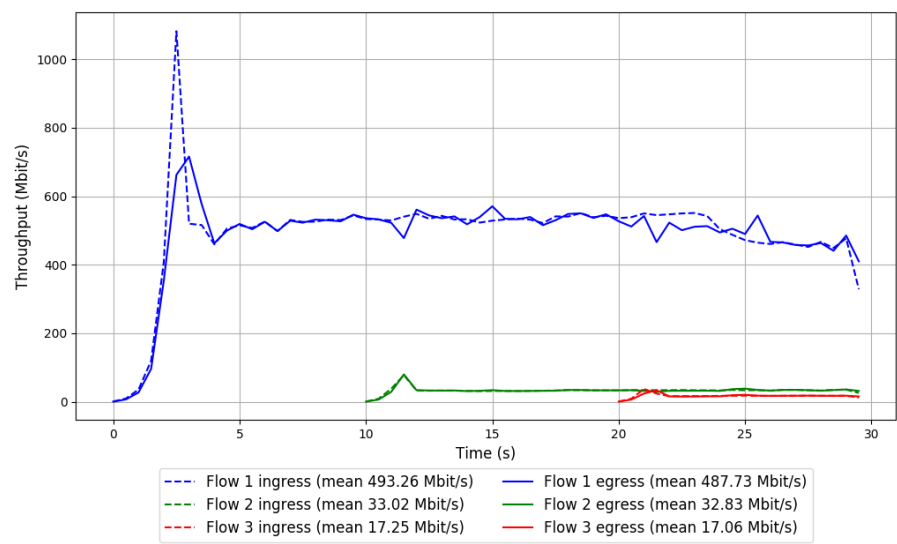
-- Flow 3:

Average throughput: 17.06 Mbit/s

95th percentile per-packet one-way delay: 222.529 ms

Loss rate: 1.13%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2017-11-21 15:53:28

End at: 2017-11-21 15:53:58

Below is generated by plot.py at 2017-11-21 18:42:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 478.61 Mbit/s

95th percentile per-packet one-way delay: 229.770 ms

Loss rate: 1.34%

-- Flow 1:

Average throughput: 465.03 Mbit/s

95th percentile per-packet one-way delay: 230.054 ms

Loss rate: 1.37%

-- Flow 2:

Average throughput: 4.28 Mbit/s

95th percentile per-packet one-way delay: 228.228 ms

Loss rate: 0.59%

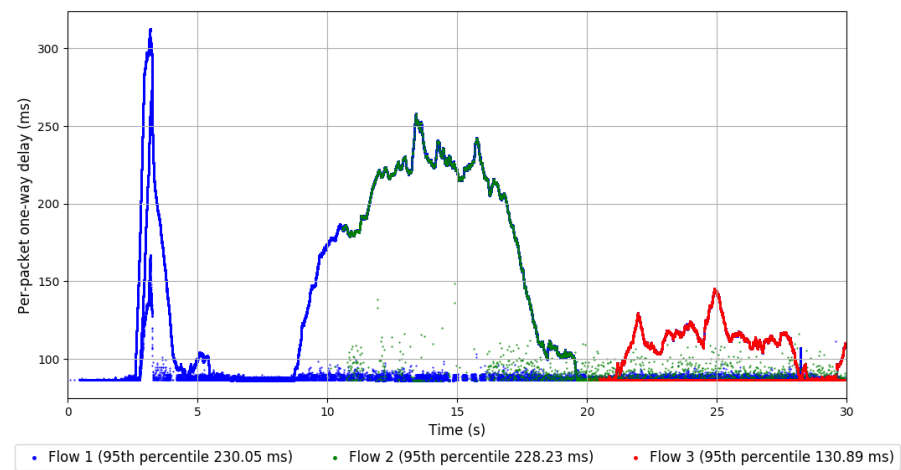
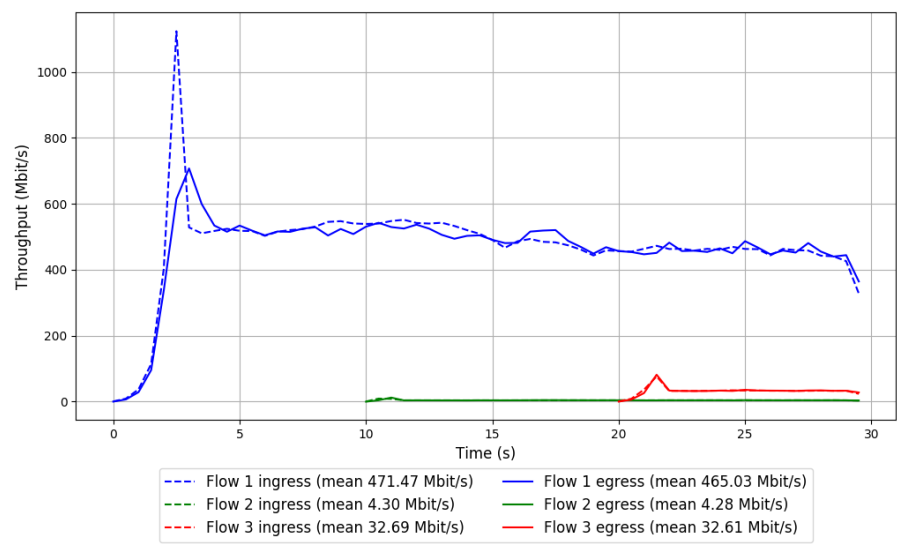
-- Flow 3:

Average throughput: 32.61 Mbit/s

95th percentile per-packet one-way delay: 130.893 ms

Loss rate: 0.25%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2017-11-21 16:06:31

End at: 2017-11-21 16:07:01

Below is generated by plot.py at 2017-11-21 18:43:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 516.47 Mbit/s

95th percentile per-packet one-way delay: 210.848 ms

Loss rate: 0.69%

-- Flow 1:

Average throughput: 490.59 Mbit/s

95th percentile per-packet one-way delay: 210.038 ms

Loss rate: 0.67%

-- Flow 2:

Average throughput: 8.20 Mbit/s

95th percentile per-packet one-way delay: 210.093 ms

Loss rate: 0.41%

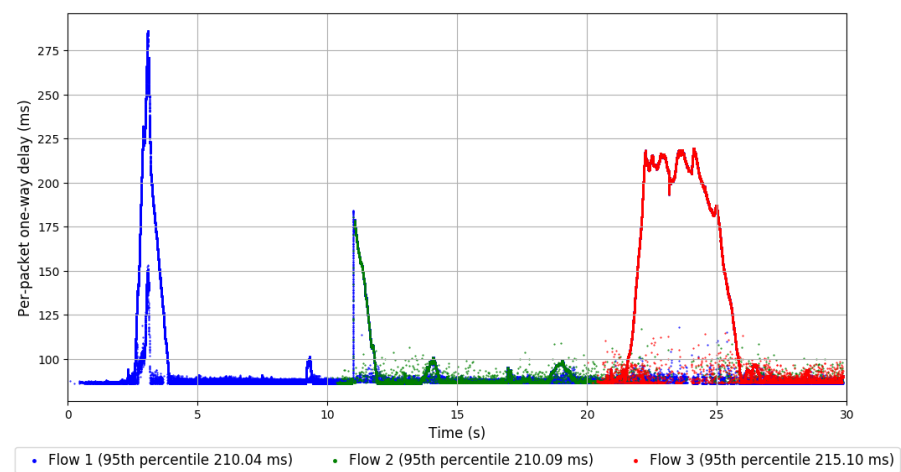
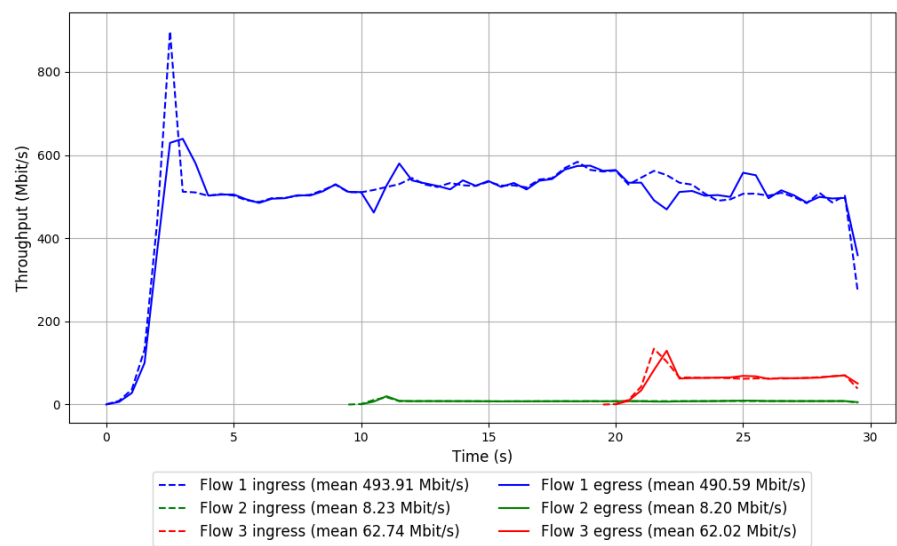
-- Flow 3:

Average throughput: 62.02 Mbit/s

95th percentile per-packet one-way delay: 215.104 ms

Loss rate: 1.25%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2017-11-21 16:19:43

End at: 2017-11-21 16:20:13

Below is generated by plot.py at 2017-11-21 18:43:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 530.50 Mbit/s

95th percentile per-packet one-way delay: 219.059 ms

Loss rate: 2.08%

-- Flow 1:

Average throughput: 518.79 Mbit/s

95th percentile per-packet one-way delay: 219.042 ms

Loss rate: 2.09%

-- Flow 2:

Average throughput: 2.21 Mbit/s

95th percentile per-packet one-way delay: 218.721 ms

Loss rate: 1.24%

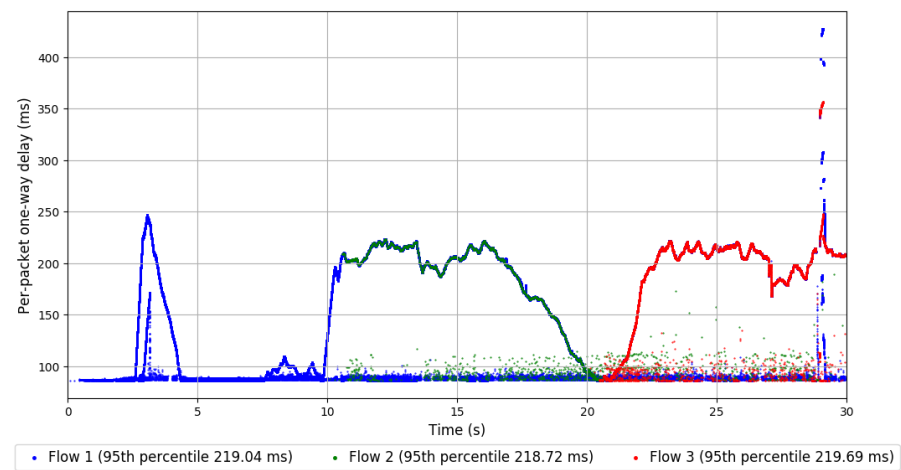
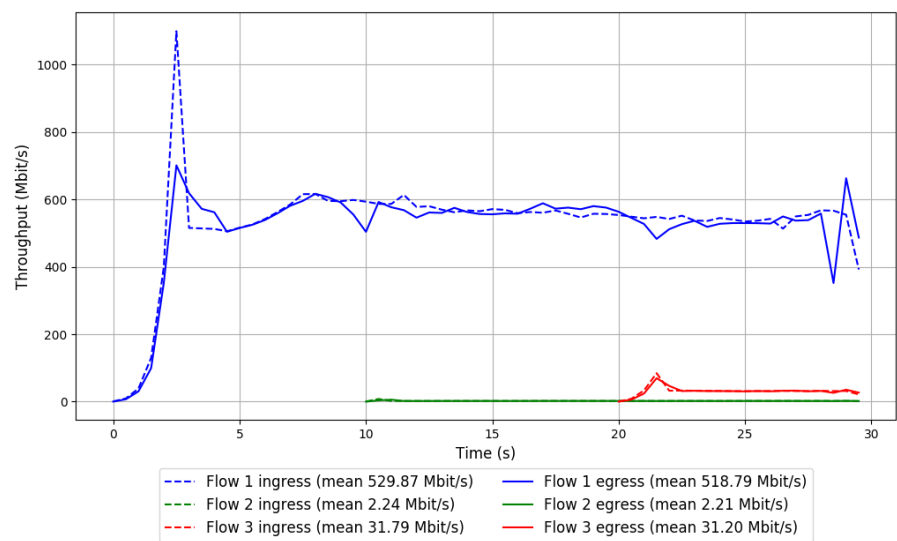
-- Flow 3:

Average throughput: 31.20 Mbit/s

95th percentile per-packet one-way delay: 219.689 ms

Loss rate: 1.95%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2017-11-21 16:32:47

End at: 2017-11-21 16:33:17

Below is generated by plot.py at 2017-11-21 18:44:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 522.32 Mbit/s

95th percentile per-packet one-way delay: 219.004 ms

Loss rate: 1.14%

-- Flow 1:

Average throughput: 499.74 Mbit/s

95th percentile per-packet one-way delay: 218.989 ms

Loss rate: 1.15%

-- Flow 2:

Average throughput: 32.88 Mbit/s

95th percentile per-packet one-way delay: 219.205 ms

Loss rate: 0.86%

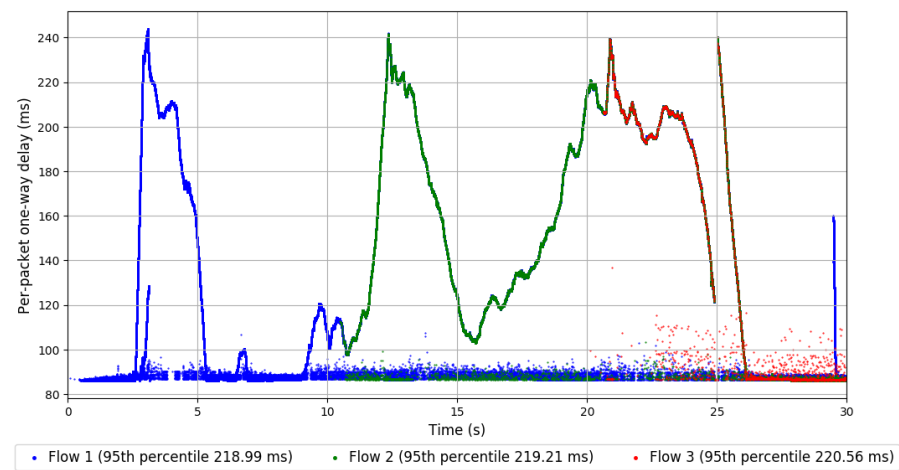
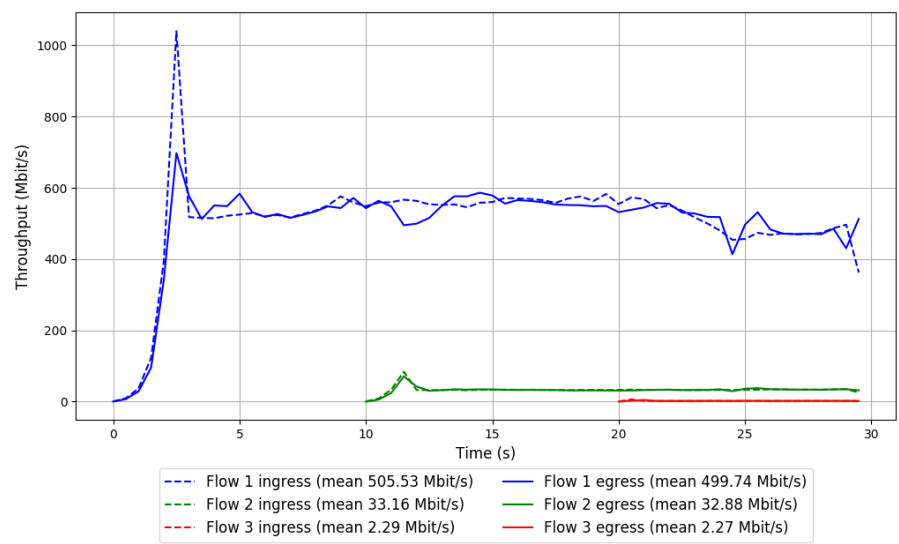
-- Flow 3:

Average throughput: 2.27 Mbit/s

95th percentile per-packet one-way delay: 220.565 ms

Loss rate: 1.17%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2017-11-21 16:45:51

End at: 2017-11-21 16:46:21

Below is generated by plot.py at 2017-11-21 18:50:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 527.56 Mbit/s

95th percentile per-packet one-way delay: 221.247 ms

Loss rate: 1.02%

-- Flow 1:

Average throughput: 482.08 Mbit/s

95th percentile per-packet one-way delay: 221.123 ms

Loss rate: 1.05%

-- Flow 2:

Average throughput: 66.45 Mbit/s

95th percentile per-packet one-way delay: 222.677 ms

Loss rate: 0.71%

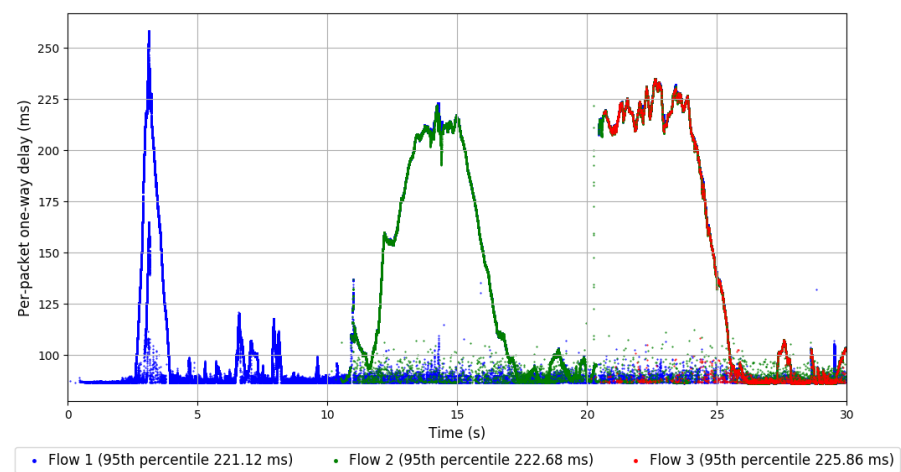
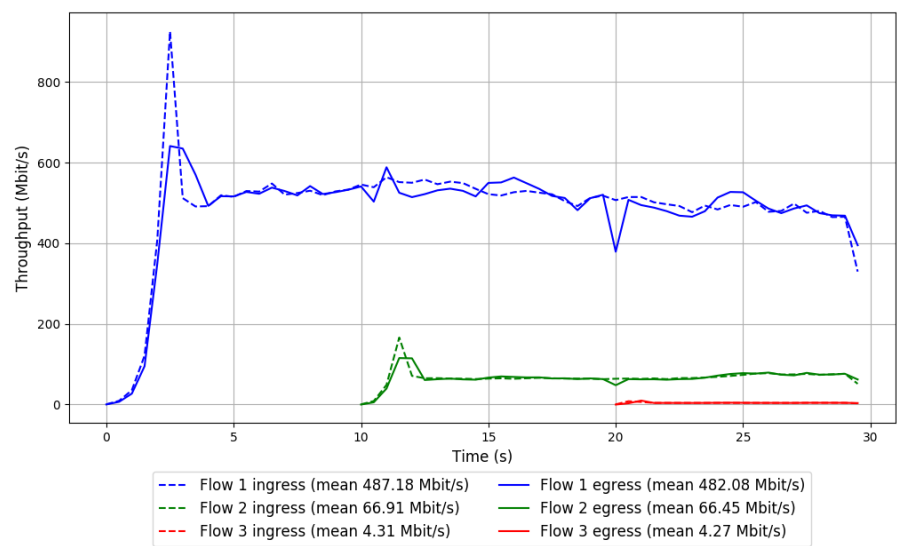
-- Flow 3:

Average throughput: 4.27 Mbit/s

95th percentile per-packet one-way delay: 225.857 ms

Loss rate: 0.97%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2017-11-21 16:58:59

End at: 2017-11-21 16:59:29

Below is generated by plot.py at 2017-11-21 18:52:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 535.57 Mbit/s

95th percentile per-packet one-way delay: 213.701 ms

Loss rate: 1.35%

-- Flow 1:

Average throughput: 483.07 Mbit/s

95th percentile per-packet one-way delay: 213.384 ms

Loss rate: 1.37%

-- Flow 2:

Average throughput: 63.57 Mbit/s

95th percentile per-packet one-way delay: 214.738 ms

Loss rate: 1.03%

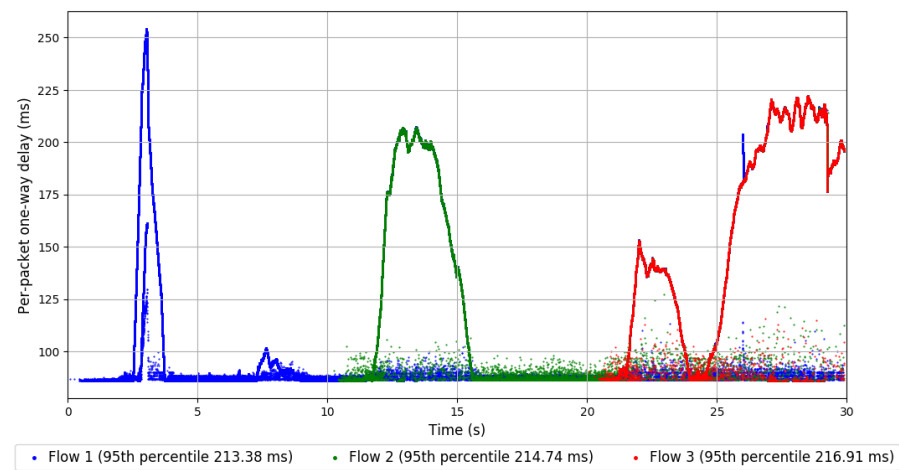
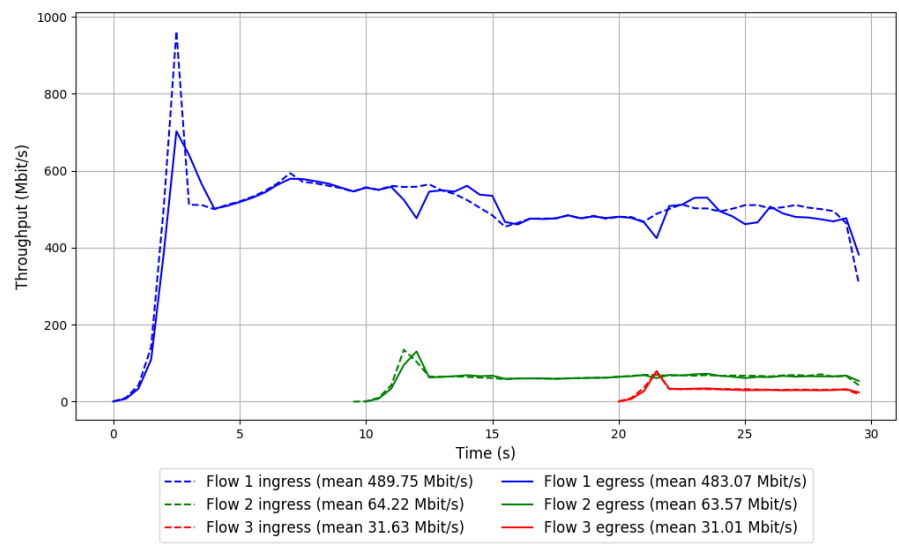
-- Flow 3:

Average throughput: 31.01 Mbit/s

95th percentile per-packet one-way delay: 216.905 ms

Loss rate: 2.00%

Run 10: Report of PCC — Data Link

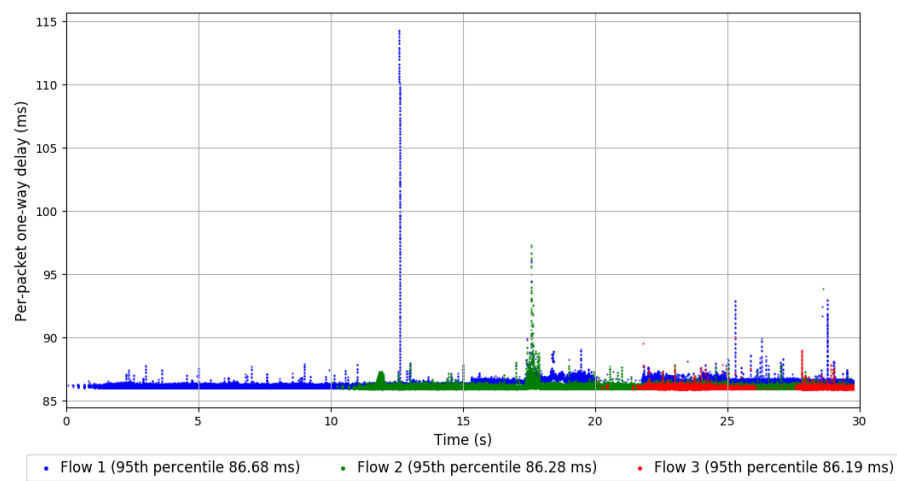
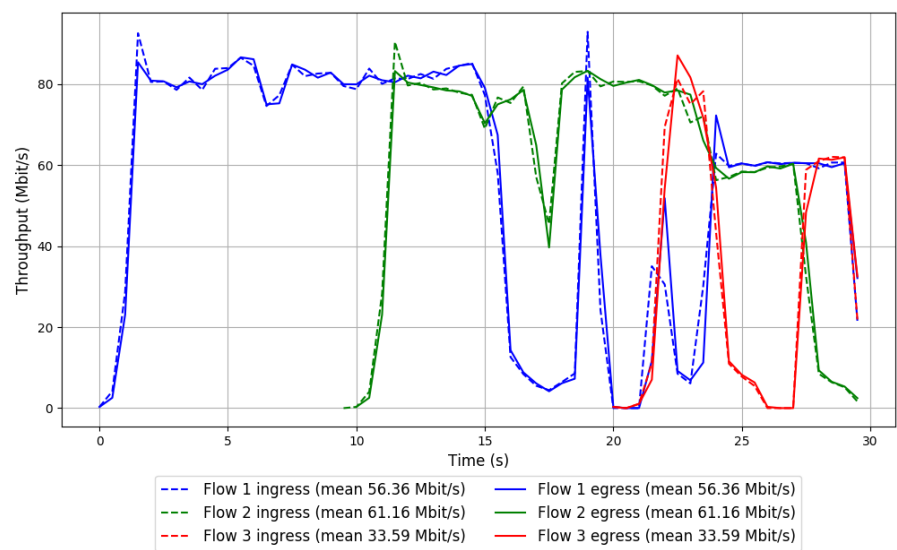


```
Run 1: Statistics of QUIC Cubic

Start at: 2017-11-21 15:03:29
End at: 2017-11-21 15:03:59

# Below is generated by plot.py at 2017-11-21 18:52:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 107.87 Mbit/s
95th percentile per-packet one-way delay: 86.570 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 56.36 Mbit/s
95th percentile per-packet one-way delay: 86.683 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 61.16 Mbit/s
95th percentile per-packet one-way delay: 86.285 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 33.59 Mbit/s
95th percentile per-packet one-way delay: 86.193 ms
Loss rate: 0.00%
```


Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2017-11-21 15:16:36

End at: 2017-11-21 15:17:06

Below is generated by plot.py at 2017-11-21 18:52:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 90.80 Mbit/s

95th percentile per-packet one-way delay: 86.660 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 51.19 Mbit/s

95th percentile per-packet one-way delay: 86.697 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 59.34 Mbit/s

95th percentile per-packet one-way delay: 86.360 ms

Loss rate: 0.00%

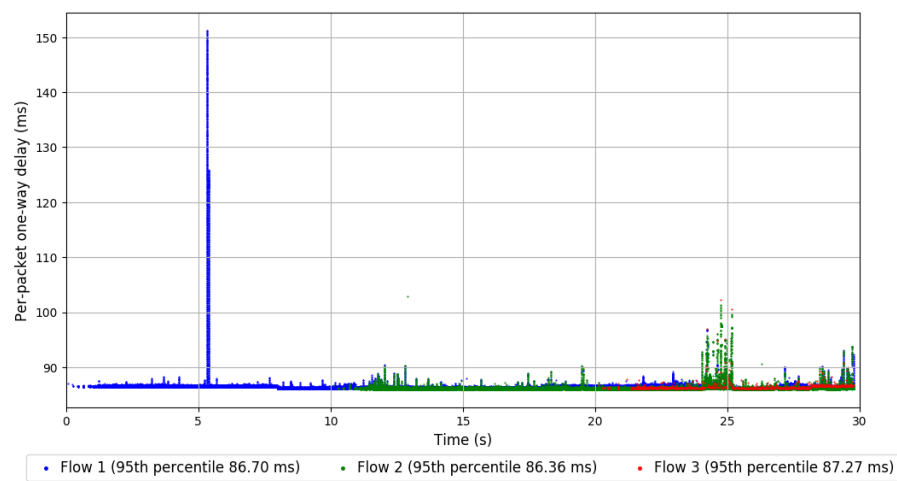
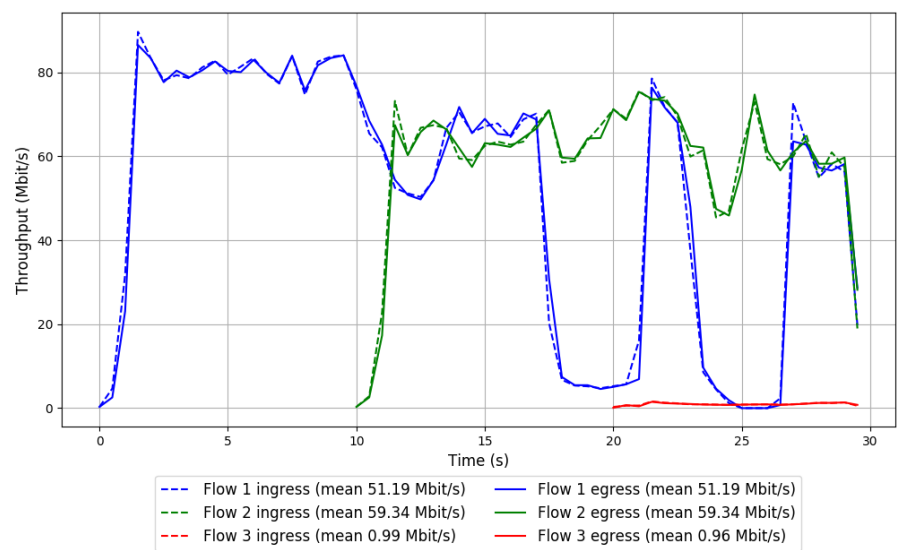
-- Flow 3:

Average throughput: 0.96 Mbit/s

95th percentile per-packet one-way delay: 87.271 ms

Loss rate: 2.61%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2017-11-21 15:30:01

End at: 2017-11-21 15:30:31

Below is generated by plot.py at 2017-11-21 18:52:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.86 Mbit/s

95th percentile per-packet one-way delay: 86.883 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 43.73 Mbit/s

95th percentile per-packet one-way delay: 86.700 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 63.47 Mbit/s

95th percentile per-packet one-way delay: 86.864 ms

Loss rate: 0.00%

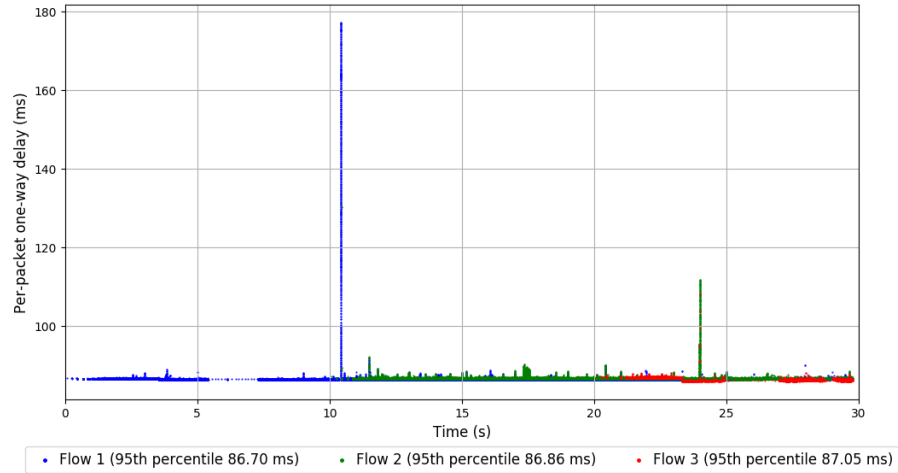
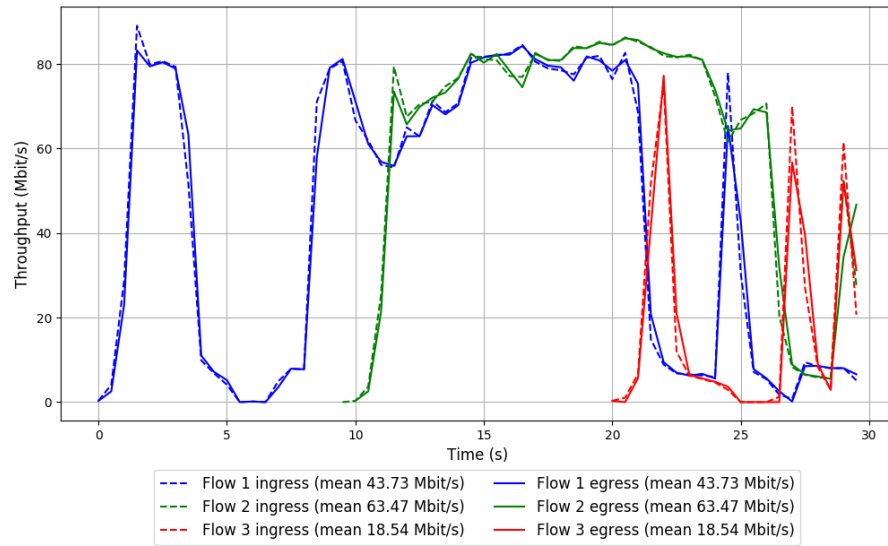
-- Flow 3:

Average throughput: 18.54 Mbit/s

95th percentile per-packet one-way delay: 87.047 ms

Loss rate: 0.04%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2017-11-21 15:43:07

End at: 2017-11-21 15:43:37

Below is generated by plot.py at 2017-11-21 18:52:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 101.28 Mbit/s

95th percentile per-packet one-way delay: 86.733 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 43.57 Mbit/s

95th percentile per-packet one-way delay: 86.718 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 54.88 Mbit/s

95th percentile per-packet one-way delay: 86.713 ms

Loss rate: 0.00%

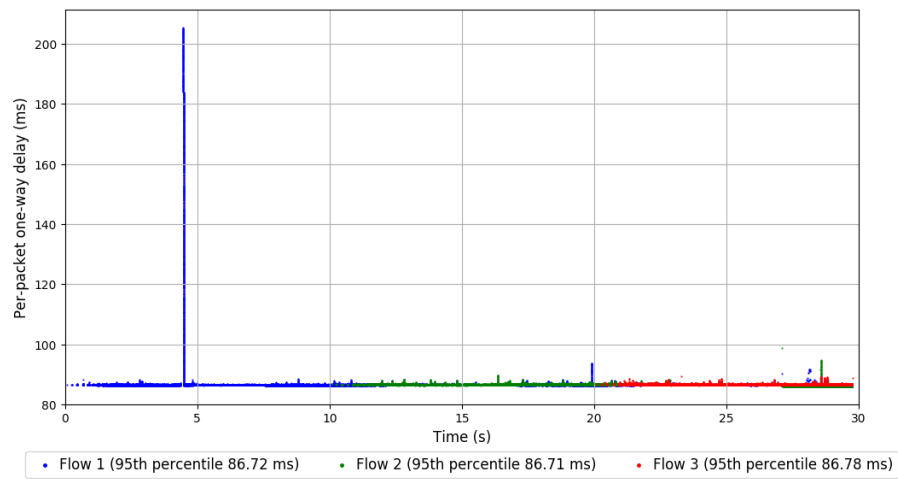
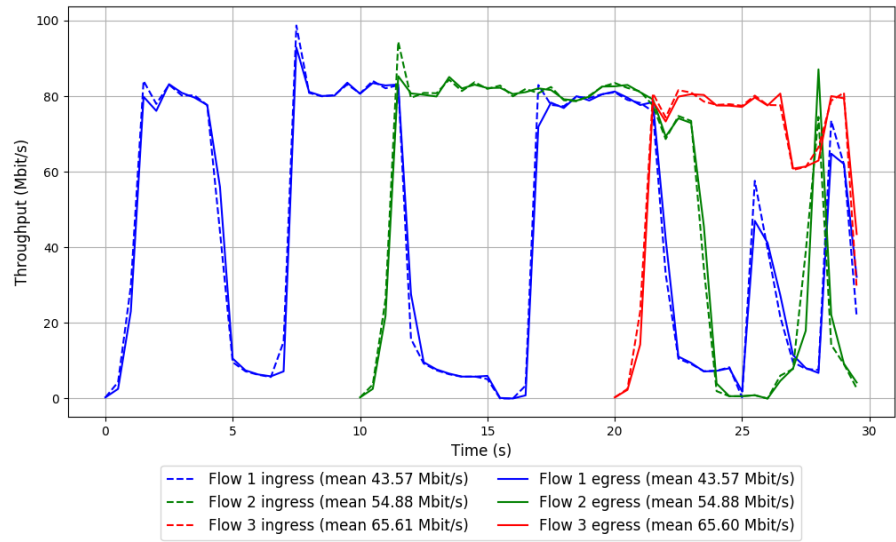
-- Flow 3:

Average throughput: 65.60 Mbit/s

95th percentile per-packet one-way delay: 86.777 ms

Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2017-11-21 15:56:10

End at: 2017-11-21 15:56:40

Below is generated by plot.py at 2017-11-21 18:52:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 117.02 Mbit/s

95th percentile per-packet one-way delay: 87.116 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 69.45 Mbit/s

95th percentile per-packet one-way delay: 87.153 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 63.76 Mbit/s

95th percentile per-packet one-way delay: 86.691 ms

Loss rate: 0.00%

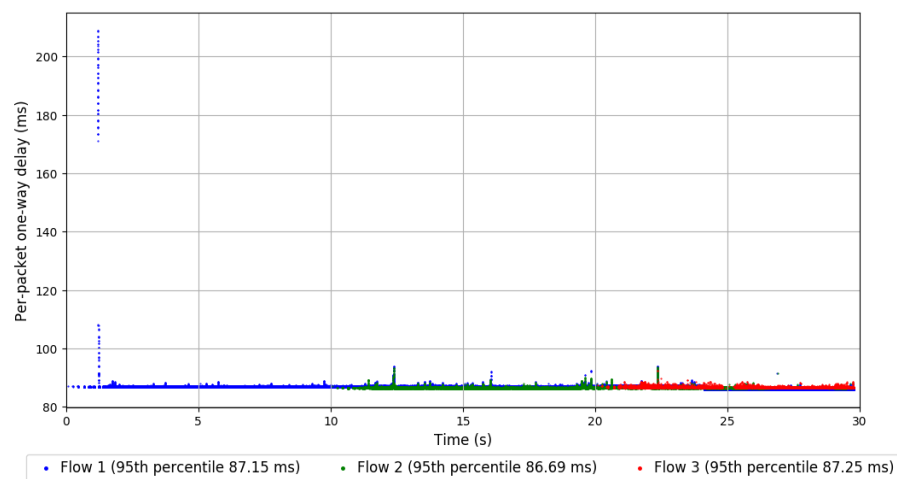
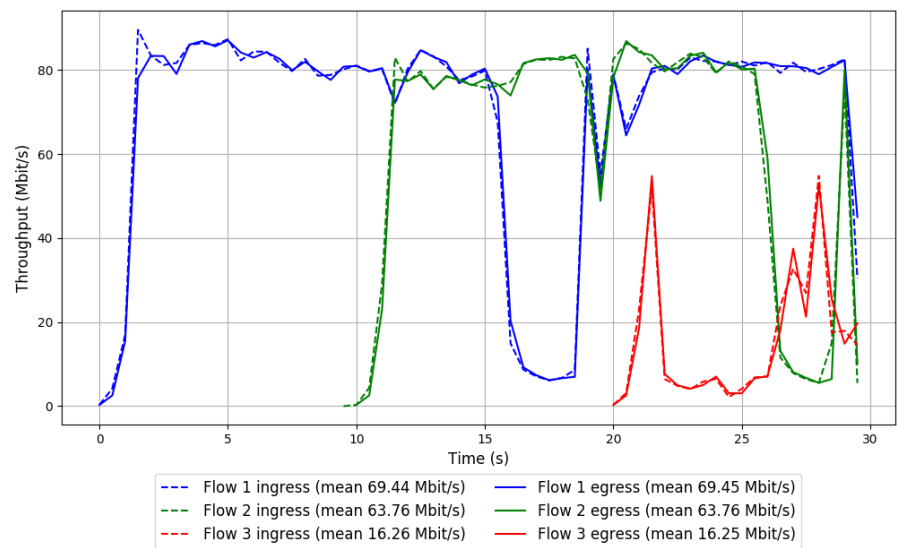
-- Flow 3:

Average throughput: 16.25 Mbit/s

95th percentile per-packet one-way delay: 87.255 ms

Loss rate: 0.06%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2017-11-21 16:09:15

End at: 2017-11-21 16:09:45

Below is generated by plot.py at 2017-11-21 18:52:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 105.12 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 57.91 Mbit/s

95th percentile per-packet one-way delay: 86.301 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 53.91 Mbit/s

95th percentile per-packet one-way delay: 86.729 ms

Loss rate: 0.00%

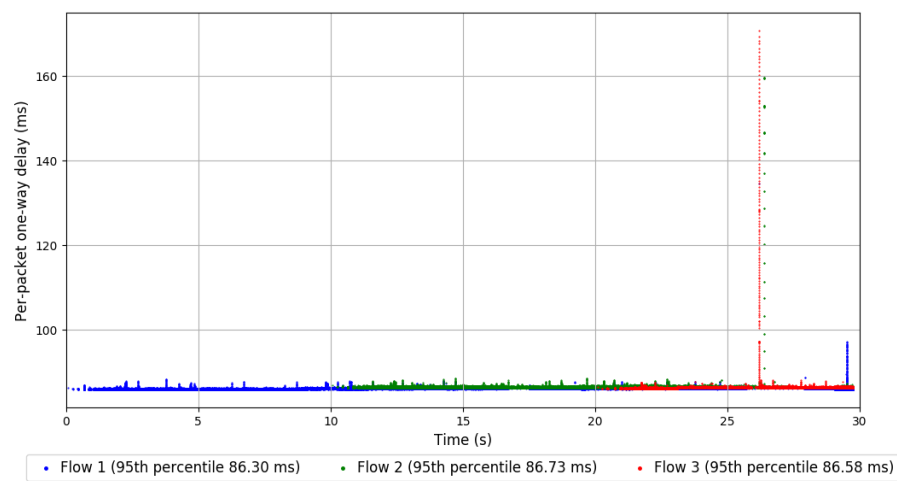
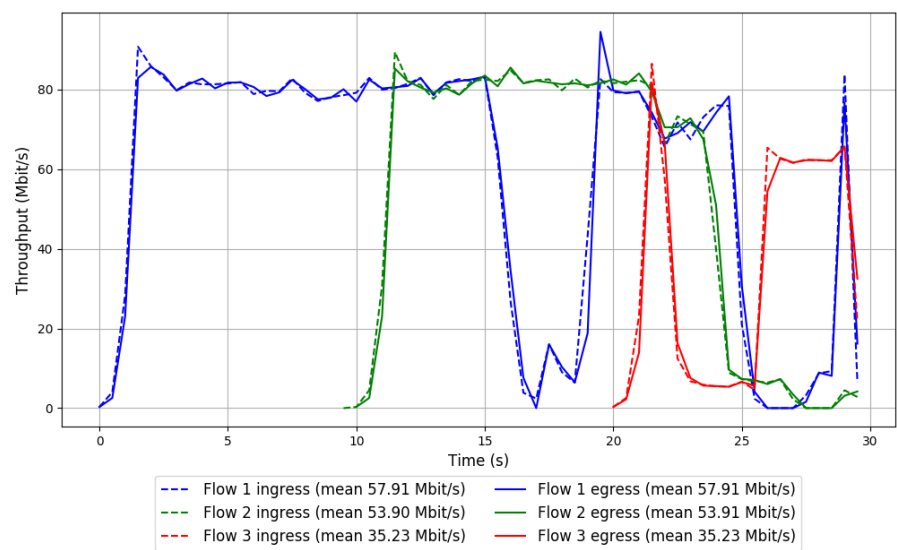
-- Flow 3:

Average throughput: 35.23 Mbit/s

95th percentile per-packet one-way delay: 86.579 ms

Loss rate: 0.00%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2017-11-21 16:22:25

End at: 2017-11-21 16:22:55

Below is generated by plot.py at 2017-11-21 18:52:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.72 Mbit/s

95th percentile per-packet one-way delay: 86.726 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 56.38 Mbit/s

95th percentile per-packet one-way delay: 86.541 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 37.49 Mbit/s

95th percentile per-packet one-way delay: 87.119 ms

Loss rate: 0.01%

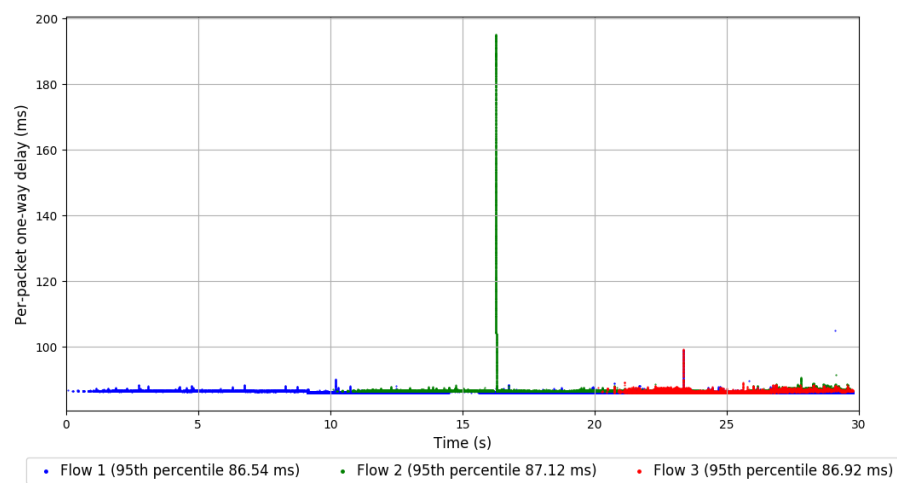
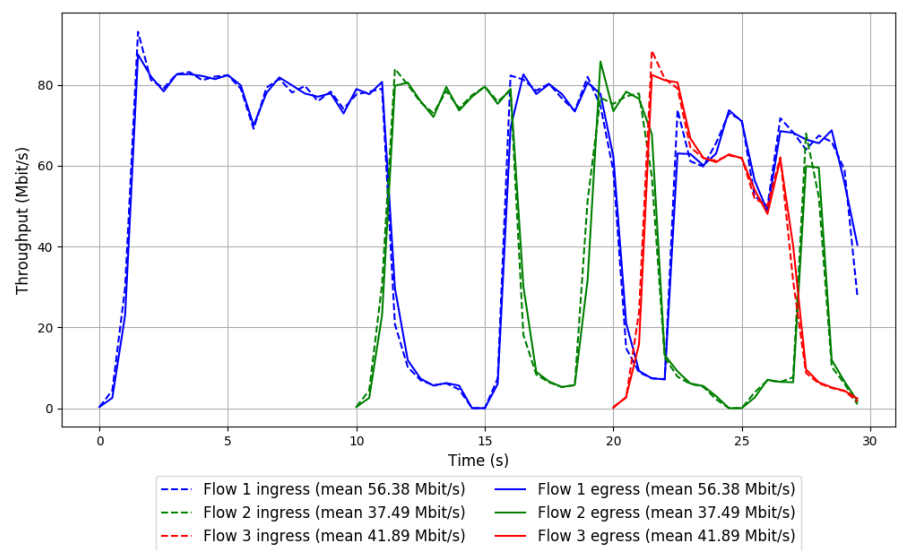
-- Flow 3:

Average throughput: 41.89 Mbit/s

95th percentile per-packet one-way delay: 86.915 ms

Loss rate: 0.03%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2017-11-21 16:35:32

End at: 2017-11-21 16:36:02

Below is generated by plot.py at 2017-11-21 18:52:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 102.77 Mbit/s

95th percentile per-packet one-way delay: 86.729 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 54.22 Mbit/s

95th percentile per-packet one-way delay: 86.646 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 56.73 Mbit/s

95th percentile per-packet one-way delay: 86.787 ms

Loss rate: 0.00%

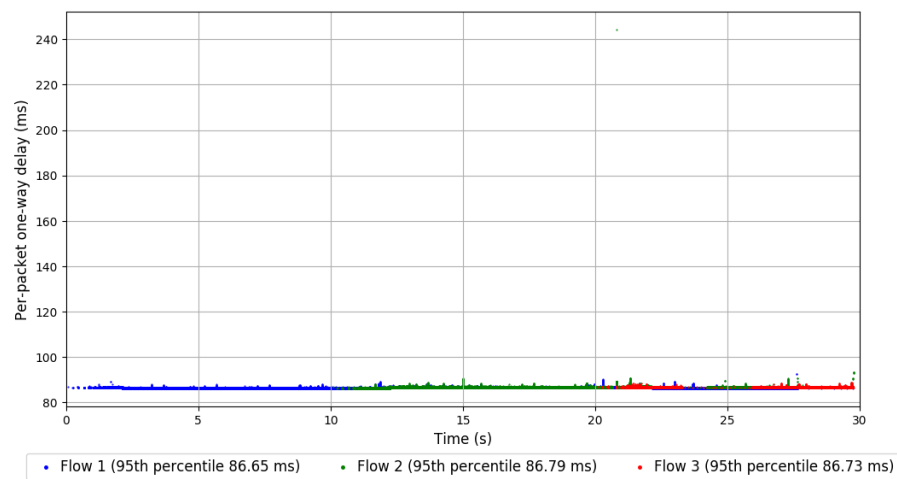
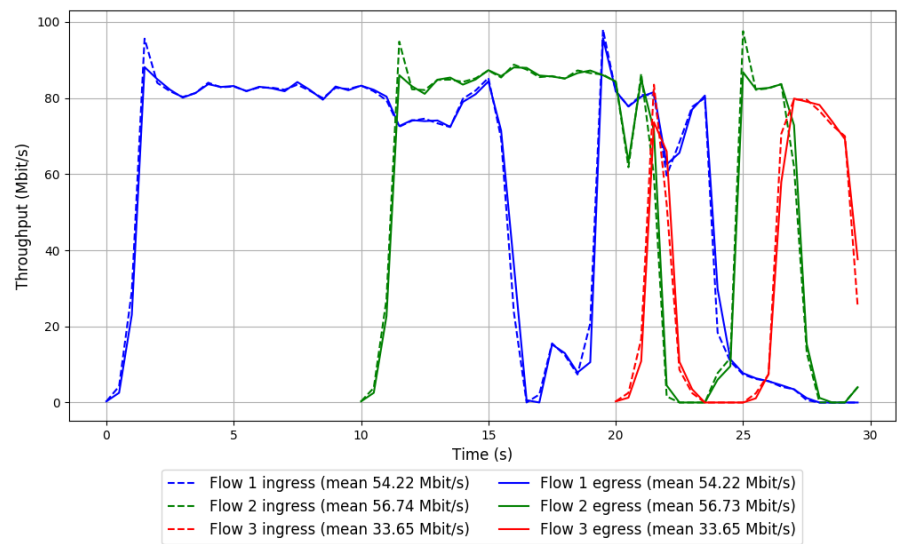
-- Flow 3:

Average throughput: 33.65 Mbit/s

95th percentile per-packet one-way delay: 86.731 ms

Loss rate: 0.00%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2017-11-21 16:48:37

End at: 2017-11-21 16:49:07

Below is generated by plot.py at 2017-11-21 18:52:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 103.90 Mbit/s

95th percentile per-packet one-way delay: 87.003 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 61.43 Mbit/s

95th percentile per-packet one-way delay: 87.010 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 54.95 Mbit/s

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

Loss rate: 0.04%

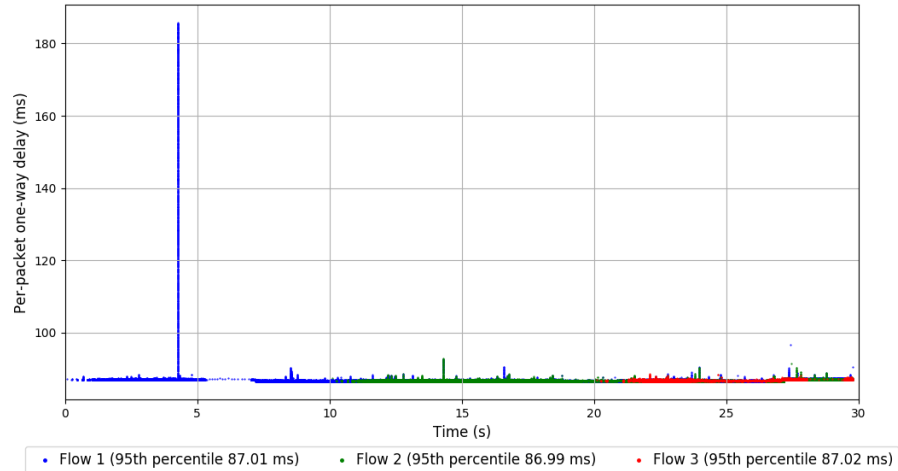
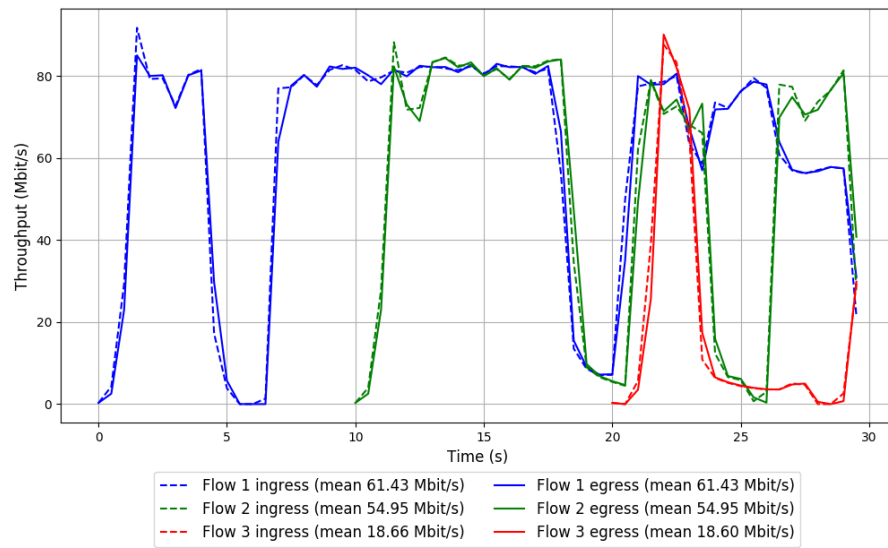
-- Flow 3:

Average throughput: 18.60 Mbit/s

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

Loss rate: 0.38%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2017-11-21 17:01:41

End at: 2017-11-21 17:02:11

Below is generated by plot.py at 2017-11-21 18:52:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 105.12 Mbit/s

95th percentile per-packet one-way delay: 87.524 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 58.87 Mbit/s

95th percentile per-packet one-way delay: 87.028 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 45.08 Mbit/s

95th percentile per-packet one-way delay: 87.910 ms

Loss rate: 0.02%

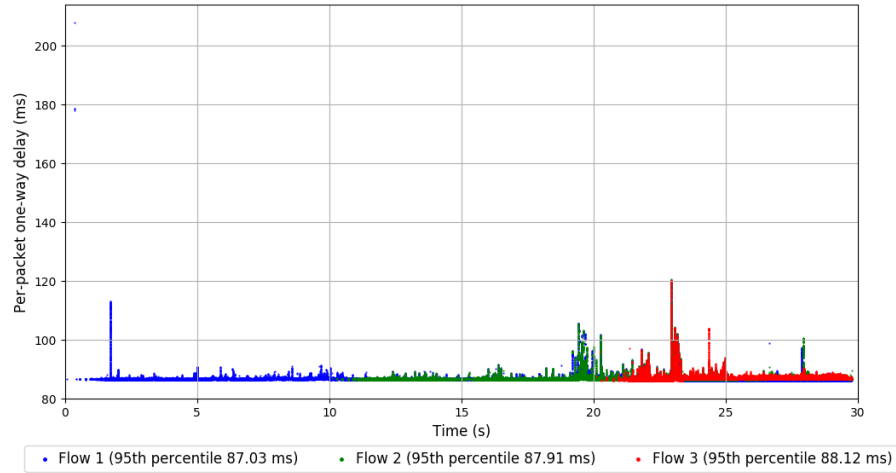
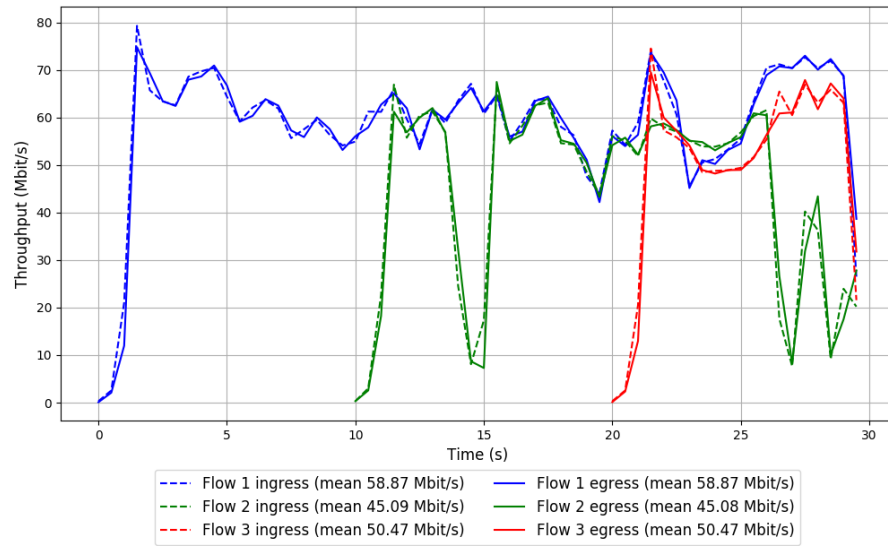
-- Flow 3:

Average throughput: 50.47 Mbit/s

95th percentile per-packet one-way delay: 88.120 ms

Loss rate: 0.01%

Run 10: Report of QUIC Cubic — Data Link

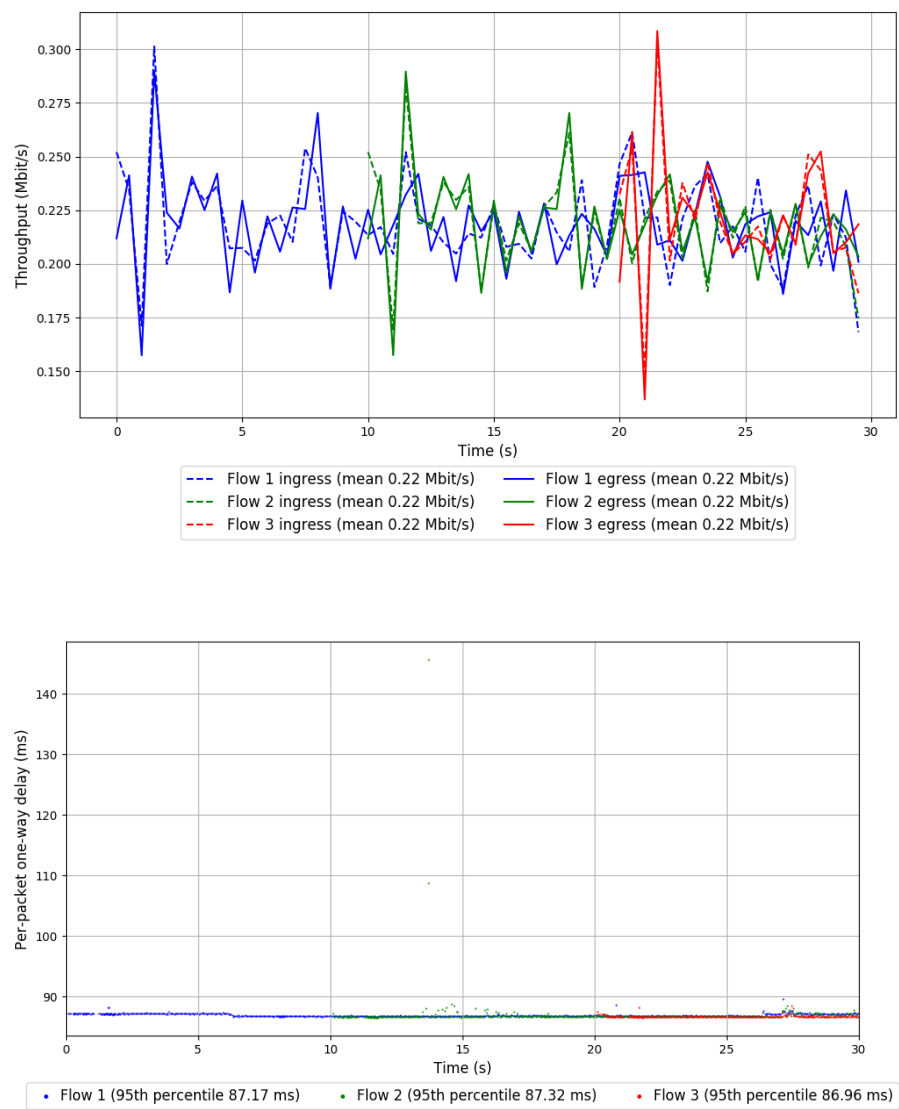


```
Run 1: Statistics of SReAM

Start at: 2017-11-21 15:09:58
End at: 2017-11-21 15:10:28

# Below is generated by plot.py at 2017-11-21 18:52:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 87.170 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 87.170 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 87.324 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.964 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

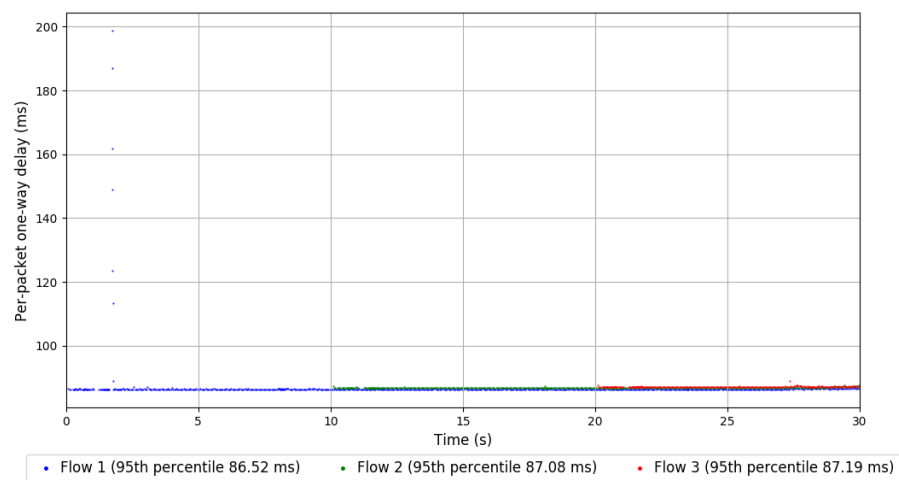
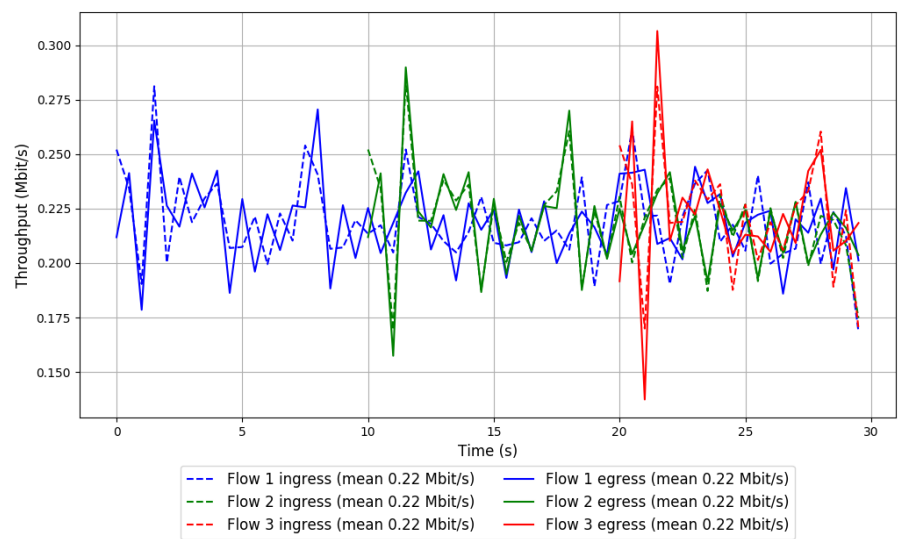


```
Run 2: Statistics of SReAM

Start at: 2017-11-21 15:23:10
End at: 2017-11-21 15:23:40

# Below is generated by plot.py at 2017-11-21 18:52:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 87.106 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.515 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 87.080 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 87.192 ms
Loss rate: 0.00%
```

Run 2: Report of SReAM — Data Link

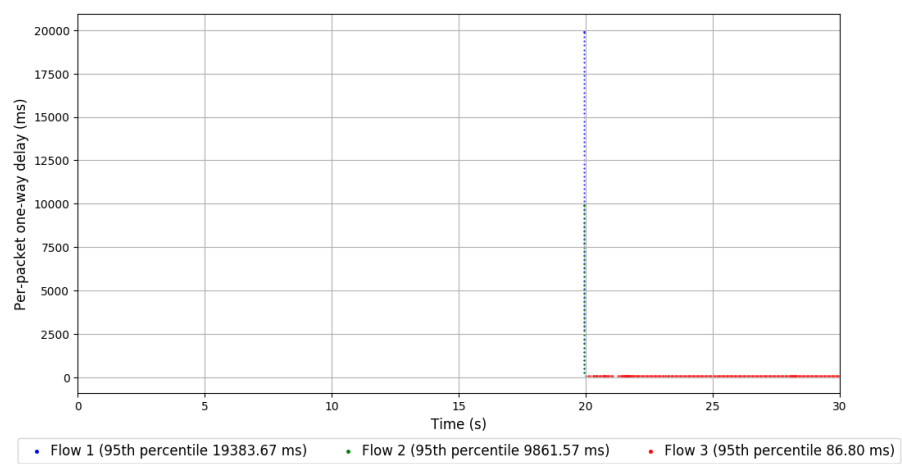
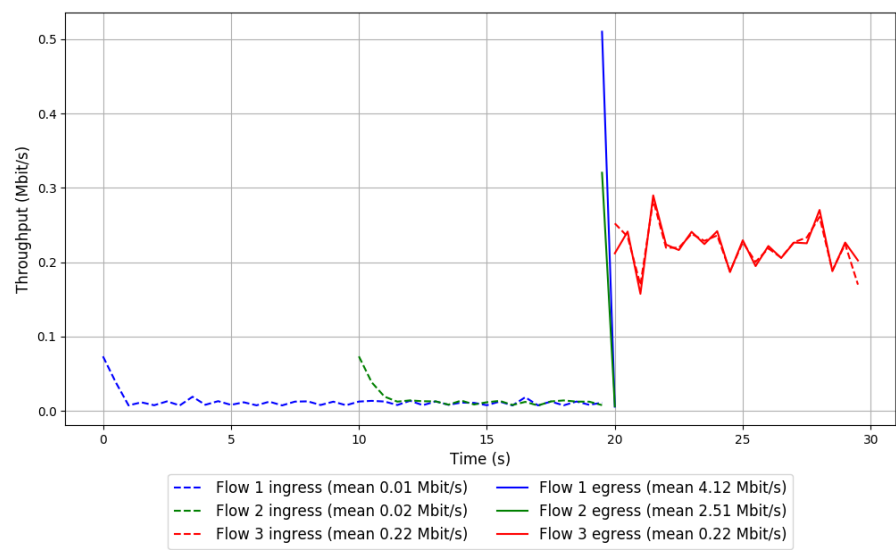


Run 3: Statistics of SReAM

Start at: 2017-11-21 15:36:33

End at: 2017-11-21 15:37:03

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2017-11-21 15:49:38

End at: 2017-11-21 15:50:08

Below is generated by plot.py at 2017-11-21 18:52:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 86.839 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.836 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 87.000 ms

Loss rate: 0.00%

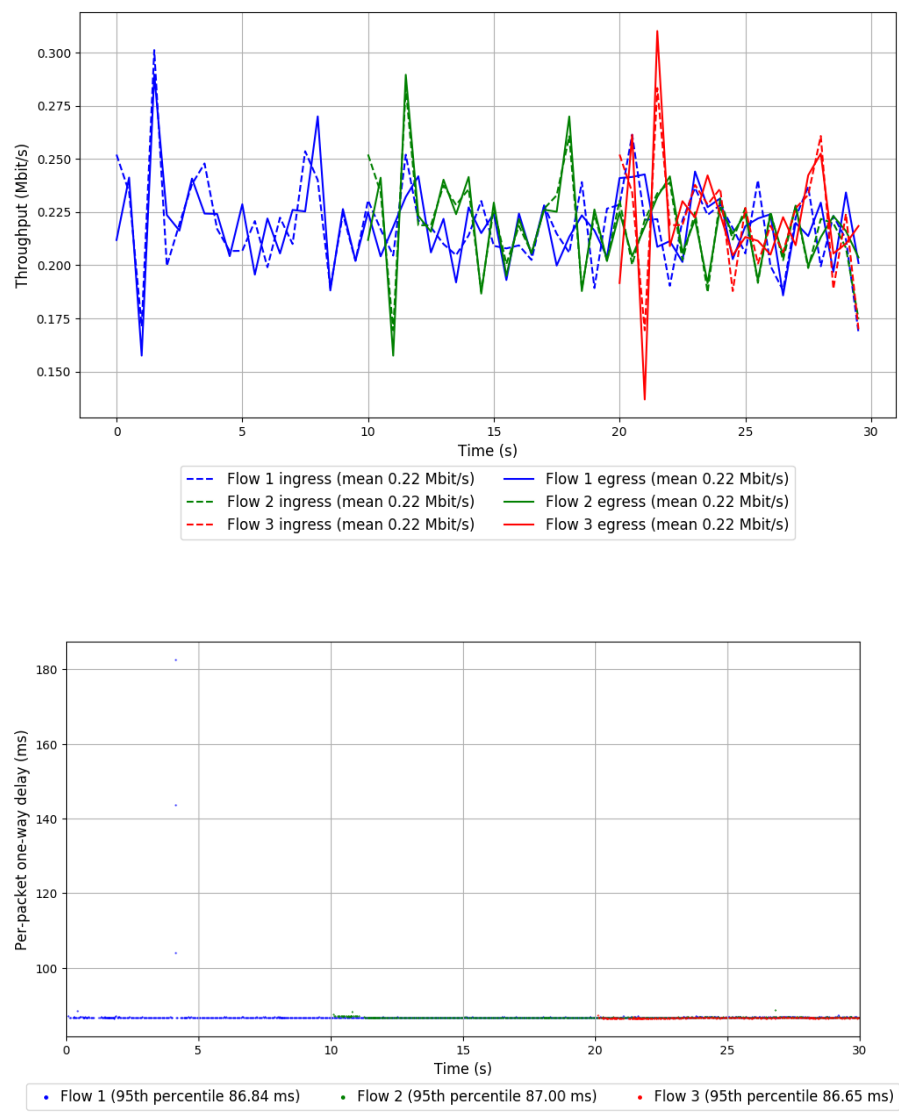
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.650 ms

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SReAM

Start at: 2017-11-21 16:02:36

End at: 2017-11-21 16:03:06

Below is generated by plot.py at 2017-11-21 18:52:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 87.156 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.810 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 87.208 ms

Loss rate: 0.00%

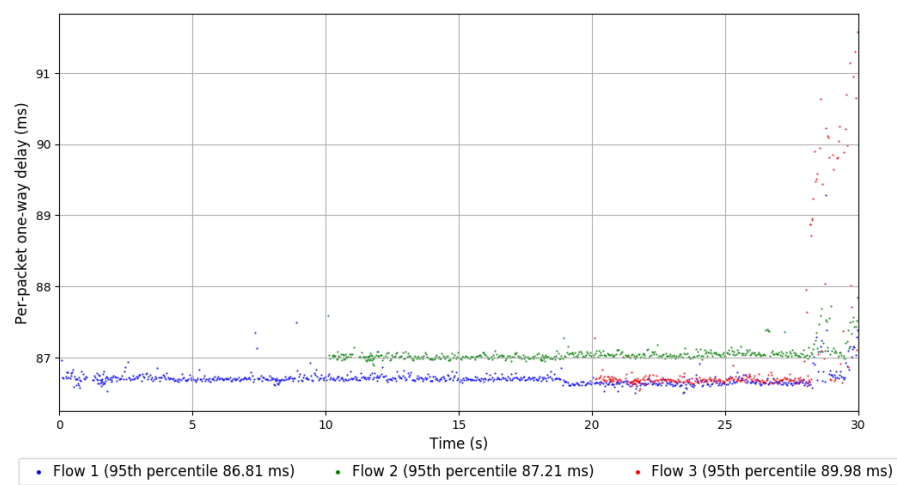
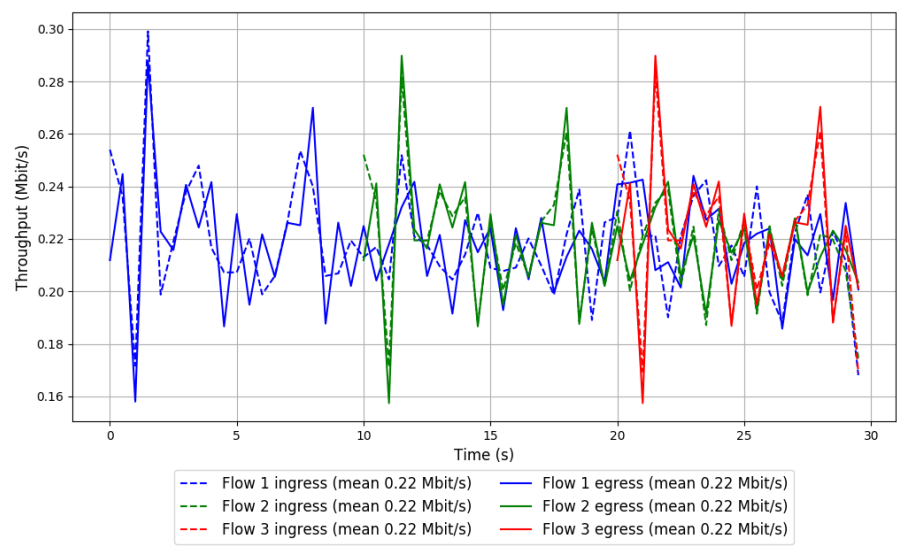
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 89.979 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2017-11-21 16:15:46

End at: 2017-11-21 16:16:16

Below is generated by plot.py at 2017-11-21 18:52:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 87.086 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.940 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 87.301 ms

Loss rate: 0.00%

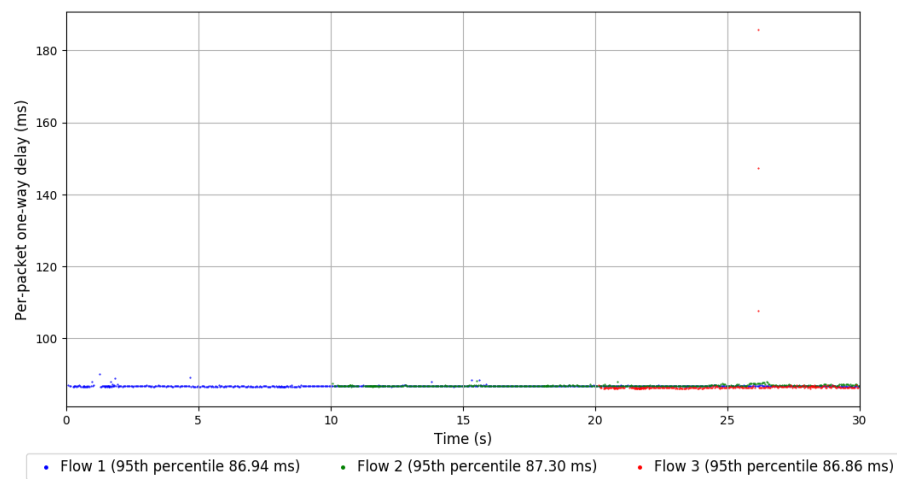
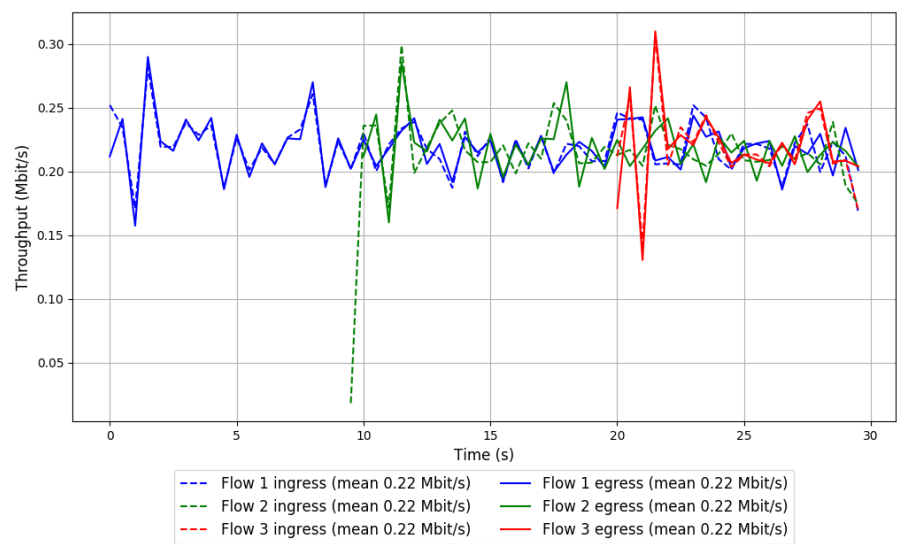
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.861 ms

Loss rate: 0.00%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SReAM

Start at: 2017-11-21 16:28:58

End at: 2017-11-21 16:29:28

Below is generated by plot.py at 2017-11-21 18:52:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 86.758 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.754 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.764 ms

Loss rate: 0.00%

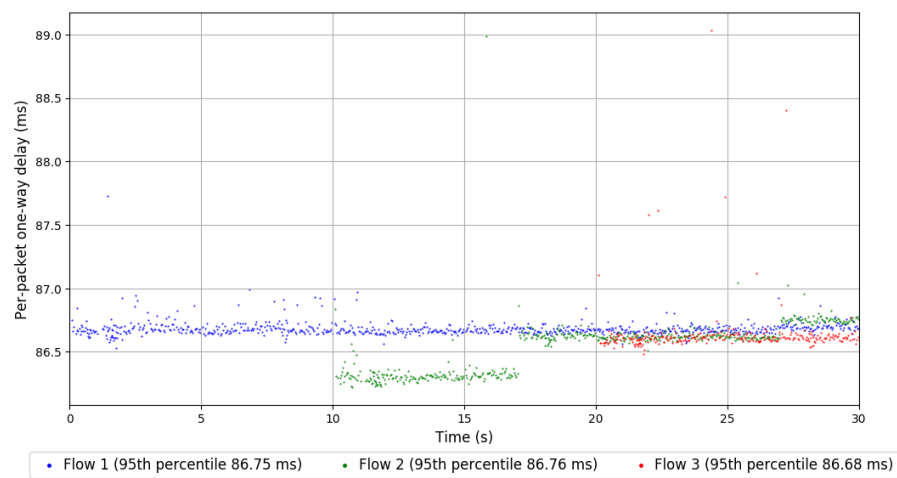
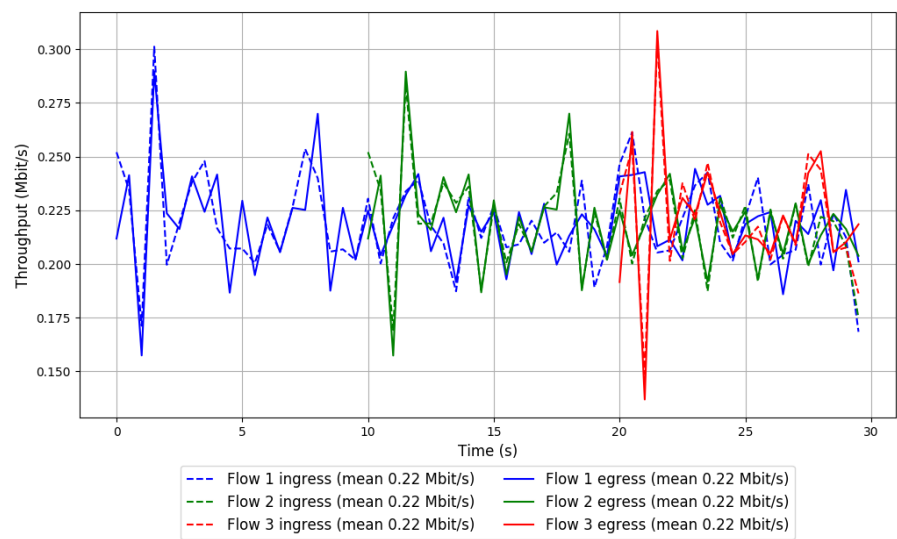
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.682 ms

Loss rate: 0.00%

Run 7: Report of SCSReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2017-11-21 16:41:58

End at: 2017-11-21 16:42:28

Below is generated by plot.py at 2017-11-21 18:52:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 87.193 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 87.155 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.19 Mbit/s

95th percentile per-packet one-way delay: 87.273 ms

Loss rate: 0.27%

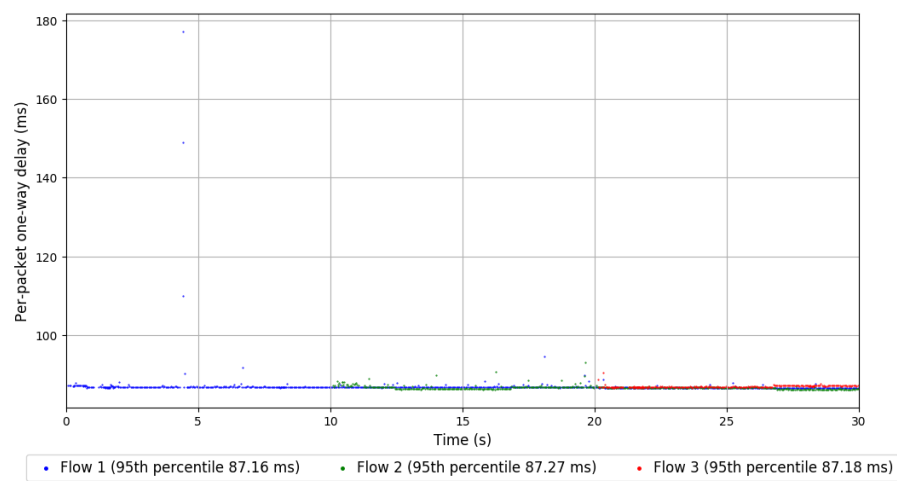
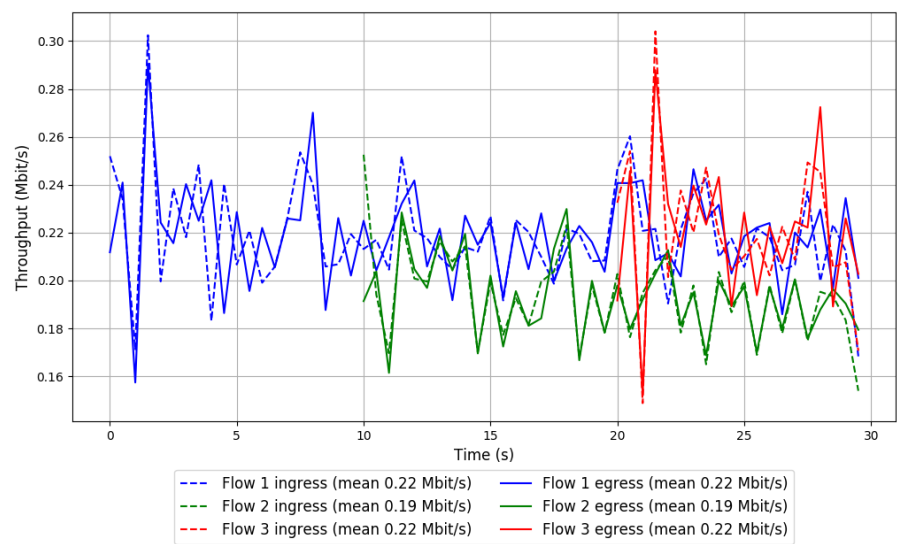
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 87.176 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2017-11-21 16:55:05

End at: 2017-11-21 16:55:35

Below is generated by plot.py at 2017-11-21 18:52:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.25 Mbit/s

95th percentile per-packet one-way delay: 87.236 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 3.55 Mbit/s

95th percentile per-packet one-way delay: 3460.881 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.360 ms

Loss rate: 0.00%

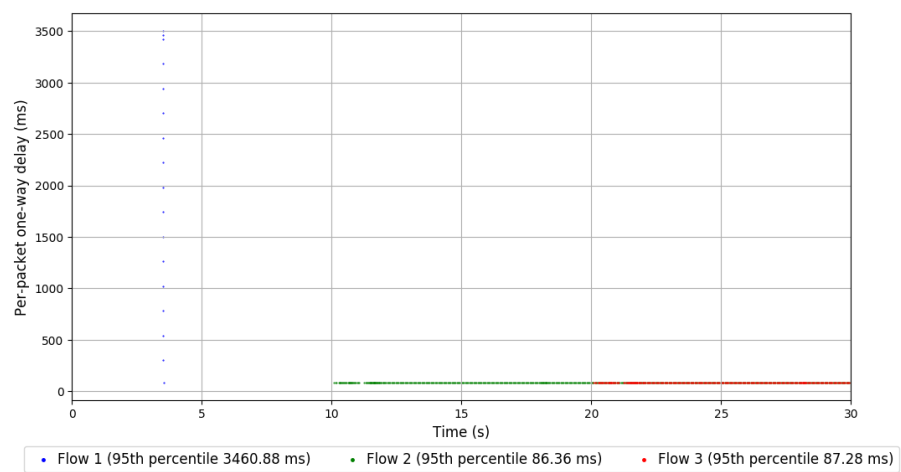
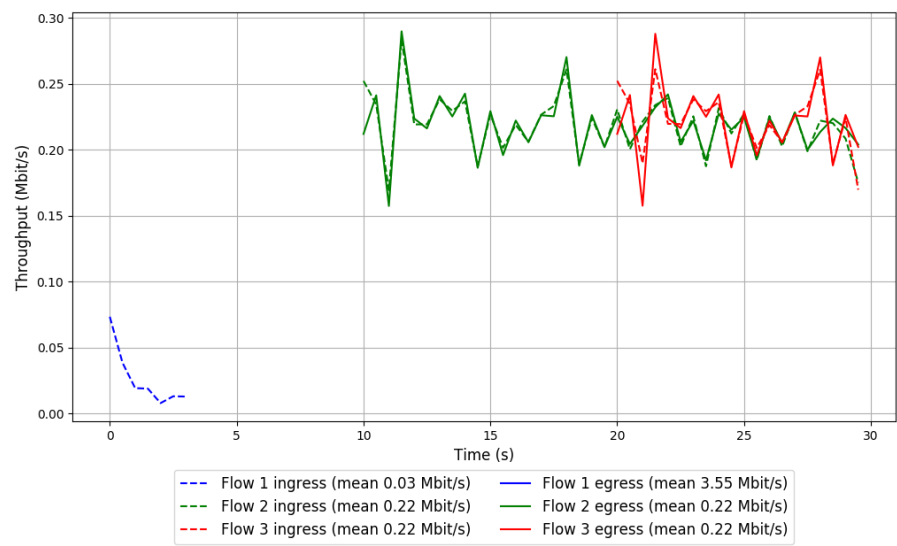
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 87.279 ms

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2017-11-21 17:08:08

End at: 2017-11-21 17:08:38

Below is generated by plot.py at 2017-11-21 18:52:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 87.046 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.773 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 87.112 ms

Loss rate: 0.00%

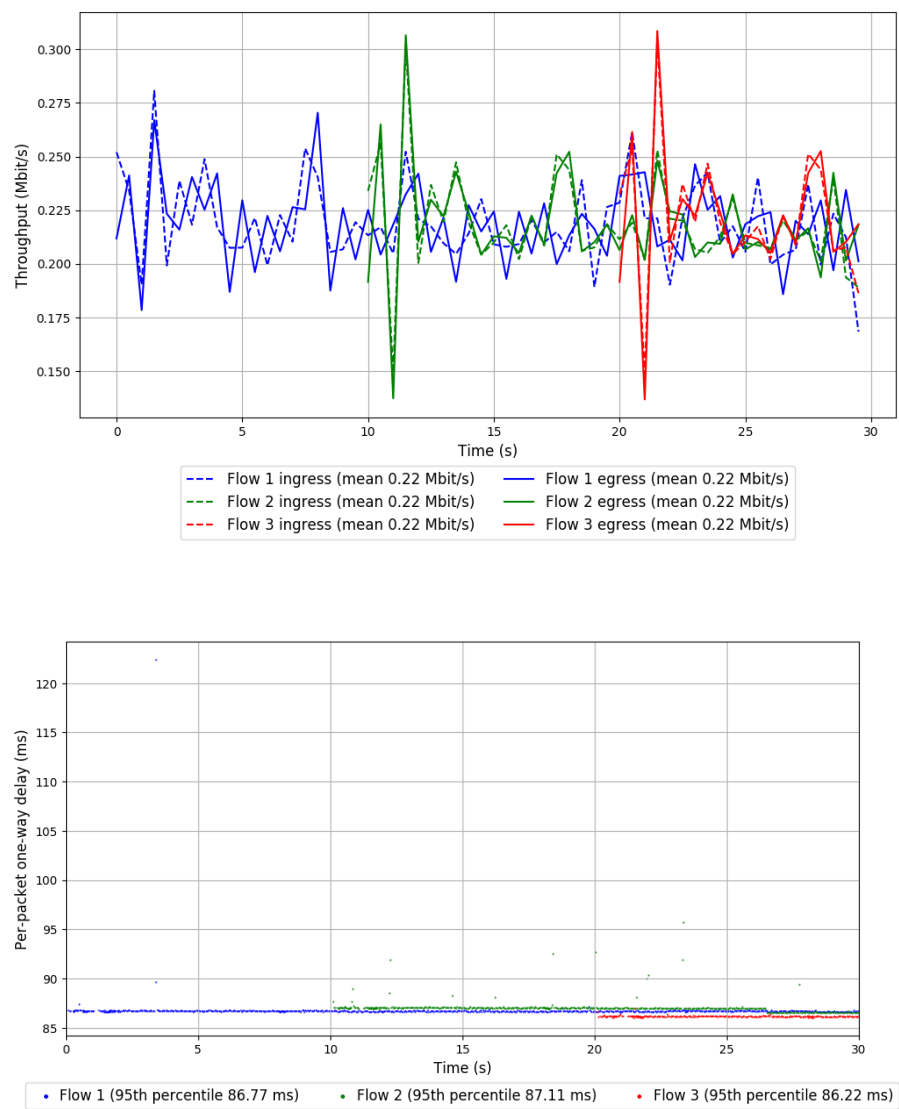
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.220 ms

Loss rate: 0.00%

Run 10: Report of SReAM — Data Link

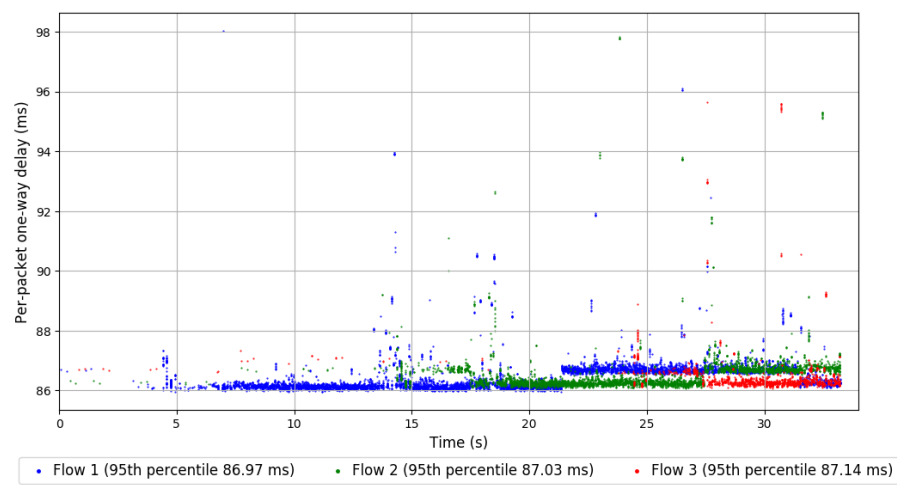
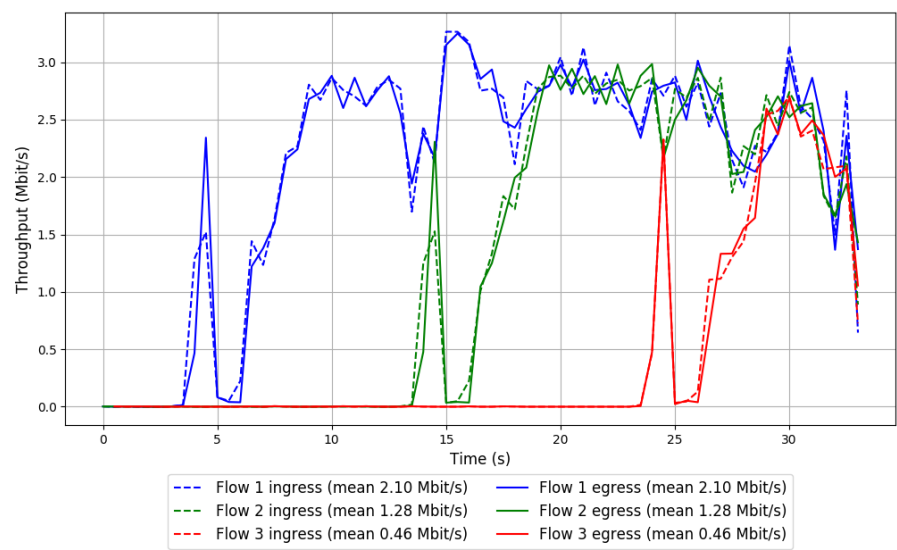


```
Run 1: Statistics of WebRTC media

Start at: 2017-11-21 15:01:51
End at: 2017-11-21 15:02:21

# Below is generated by plot.py at 2017-11-21 18:52:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.81 Mbit/s
95th percentile per-packet one-way delay: 87.016 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.10 Mbit/s
95th percentile per-packet one-way delay: 86.974 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.28 Mbit/s
95th percentile per-packet one-way delay: 87.032 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.46 Mbit/s
95th percentile per-packet one-way delay: 87.137 ms
Loss rate: 0.00%
```


Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2017-11-21 15:14:58

End at: 2017-11-21 15:15:28

Below is generated by plot.py at 2017-11-21 18:52:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.93 Mbit/s

95th percentile per-packet one-way delay: 87.108 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.13 Mbit/s

95th percentile per-packet one-way delay: 87.160 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.33 Mbit/s

95th percentile per-packet one-way delay: 86.904 ms

Loss rate: 0.00%

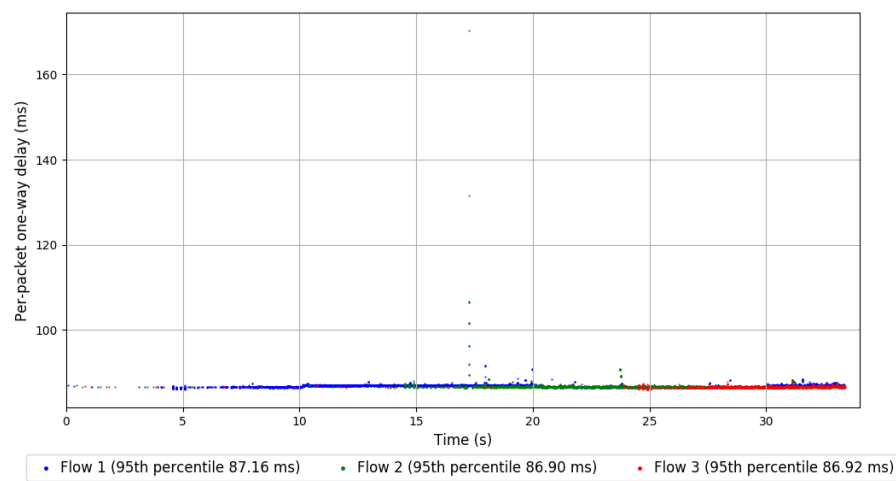
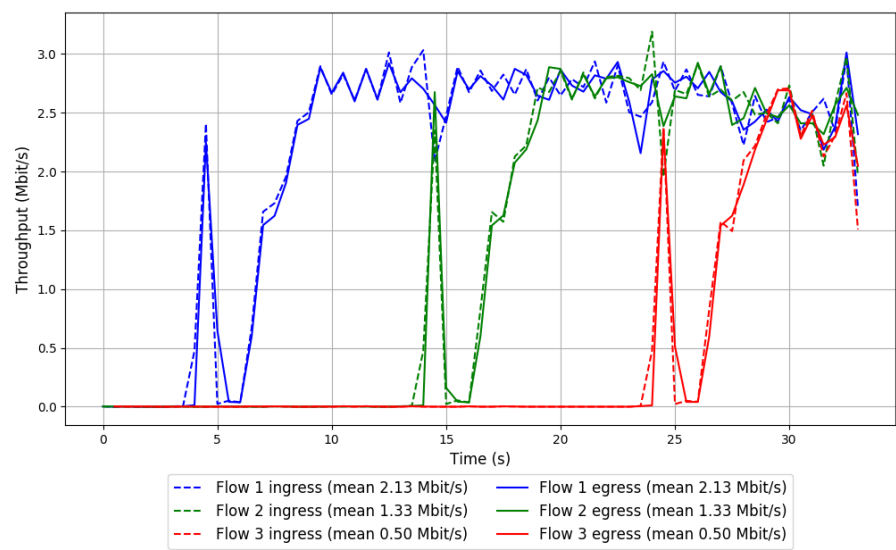
-- Flow 3:

Average throughput: 0.50 Mbit/s

95th percentile per-packet one-way delay: 86.918 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2017-11-21 15:28:23

End at: 2017-11-21 15:28:53

Below is generated by plot.py at 2017-11-21 18:52:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.95 Mbit/s

95th percentile per-packet one-way delay: 87.103 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.14 Mbit/s

95th percentile per-packet one-way delay: 87.130 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.34 Mbit/s

95th percentile per-packet one-way delay: 86.672 ms

Loss rate: 0.00%

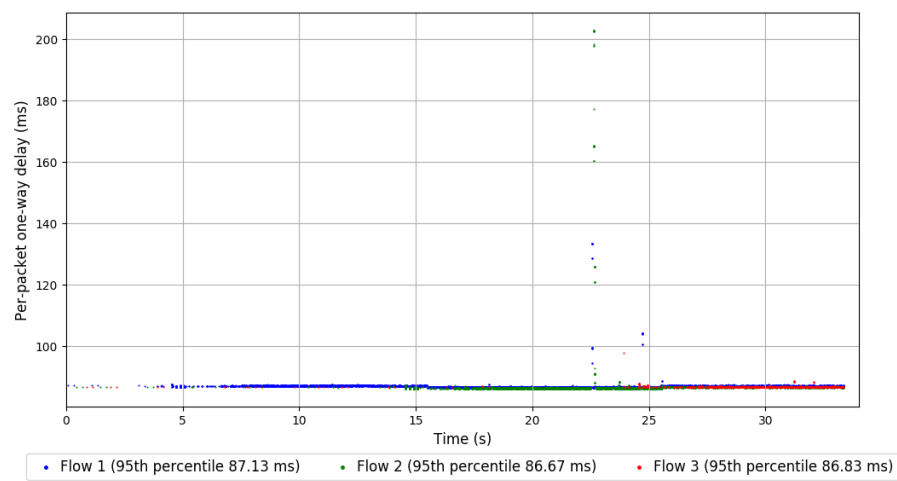
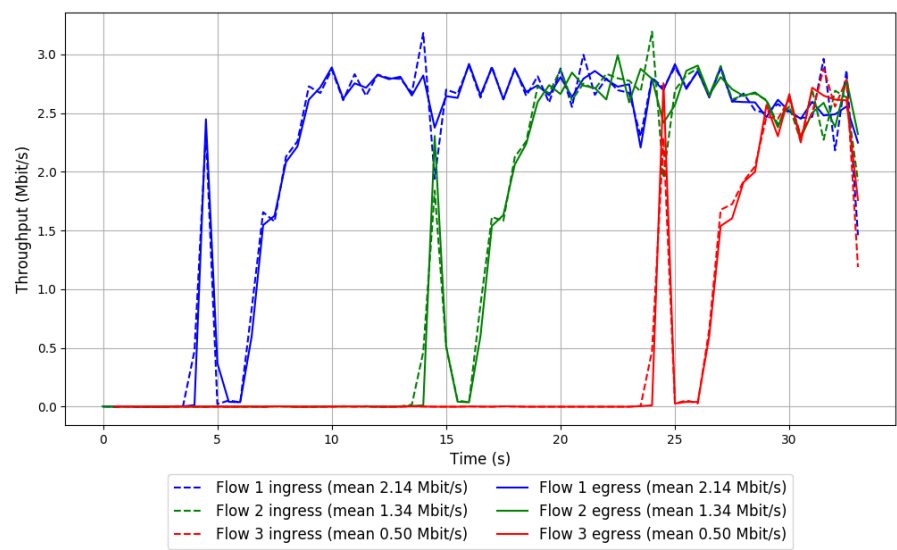
-- Flow 3:

Average throughput: 0.50 Mbit/s

95th percentile per-packet one-way delay: 86.825 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2017-11-21 15:41:28

End at: 2017-11-21 15:41:58

Below is generated by plot.py at 2017-11-21 18:52:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.29 Mbit/s

95th percentile per-packet one-way delay: 86.762 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.32 Mbit/s

95th percentile per-packet one-way delay: 86.346 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.43 Mbit/s

95th percentile per-packet one-way delay: 86.823 ms

Loss rate: 0.00%

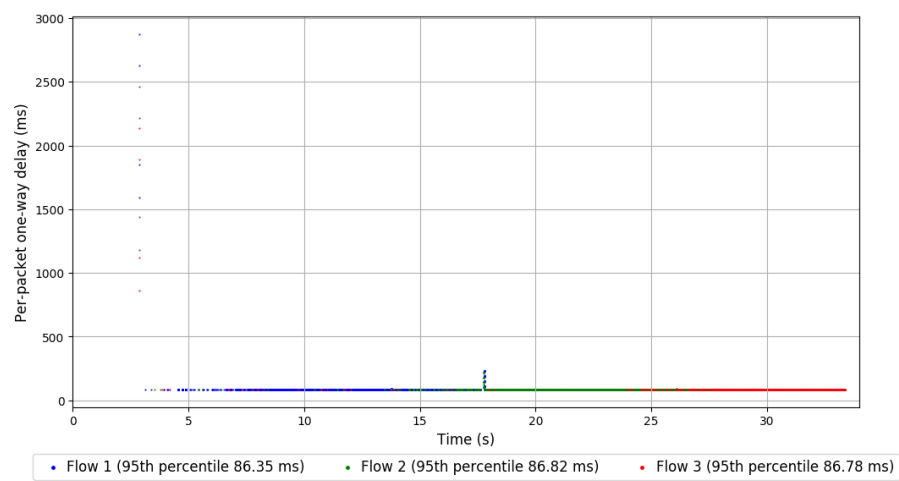
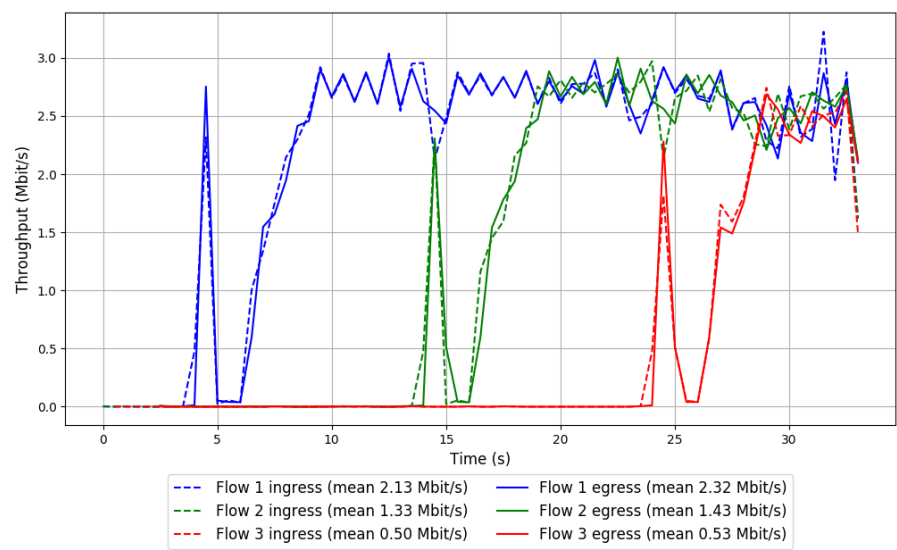
-- Flow 3:

Average throughput: 0.53 Mbit/s

95th percentile per-packet one-way delay: 86.785 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2017-11-21 15:54:33

End at: 2017-11-21 15:55:03

Below is generated by plot.py at 2017-11-21 18:52:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.18 Mbit/s

95th percentile per-packet one-way delay: 86.689 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 2.27 Mbit/s

95th percentile per-packet one-way delay: 86.701 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.40 Mbit/s

95th percentile per-packet one-way delay: 86.430 ms

Loss rate: 0.00%

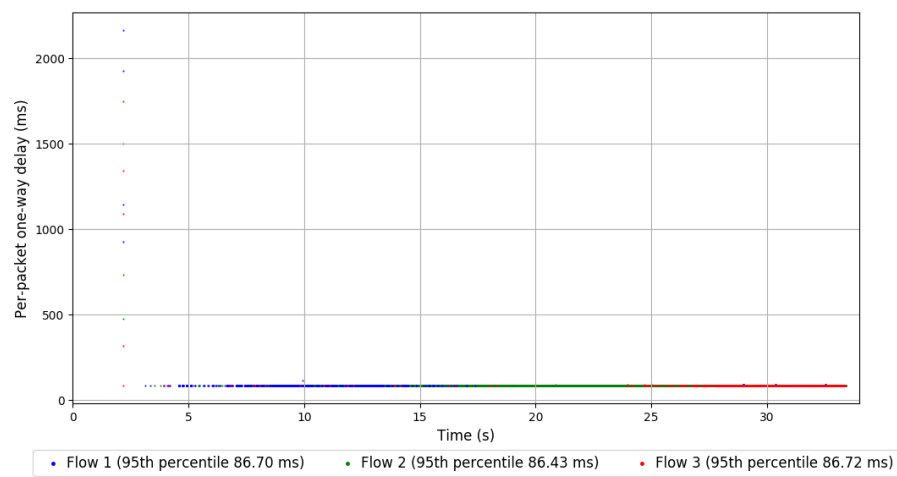
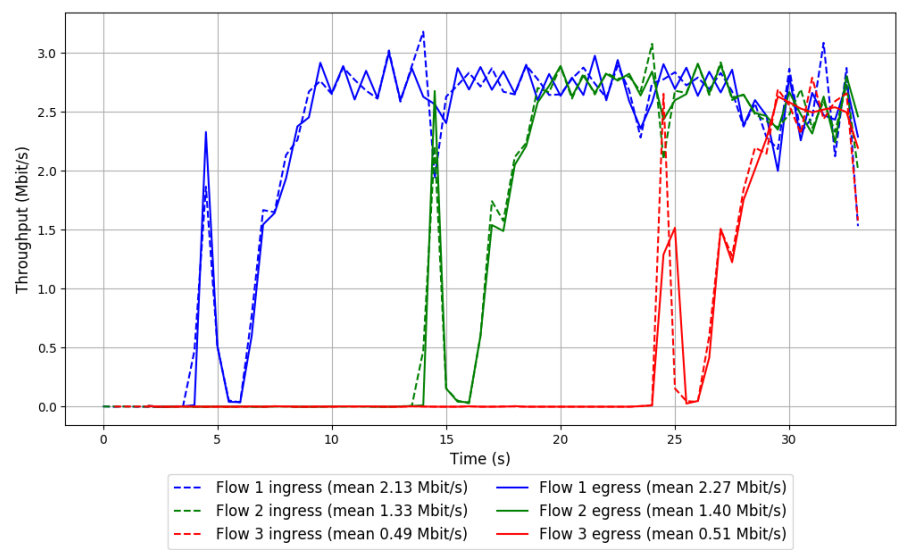
-- Flow 3:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 86.719 ms

Loss rate: 0.06%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2017-11-21 16:07:38

End at: 2017-11-21 16:08:08

Below is generated by plot.py at 2017-11-21 18:52:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.94 Mbit/s

95th percentile per-packet one-way delay: 86.871 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.13 Mbit/s

95th percentile per-packet one-way delay: 86.843 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.33 Mbit/s

95th percentile per-packet one-way delay: 86.901 ms

Loss rate: 0.00%

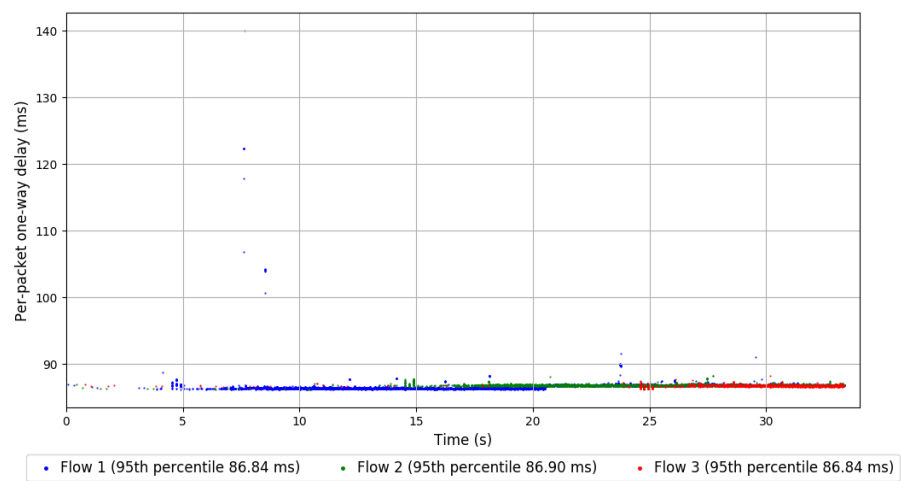
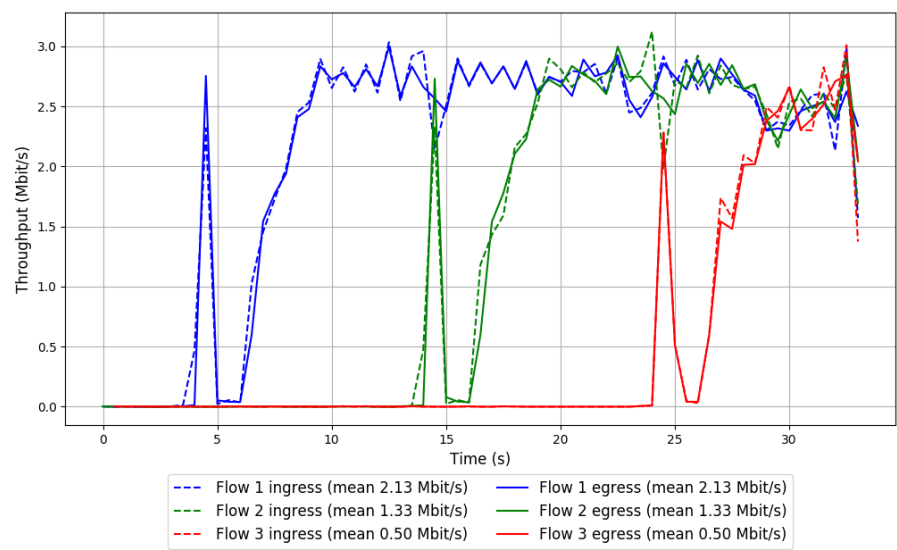
-- Flow 3:

Average throughput: 0.50 Mbit/s

95th percentile per-packet one-way delay: 86.842 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2017-11-21 16:20:51

End at: 2017-11-21 16:21:21

Below is generated by plot.py at 2017-11-21 18:52:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.95 Mbit/s

95th percentile per-packet one-way delay: 86.794 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.13 Mbit/s

95th percentile per-packet one-way delay: 86.839 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.34 Mbit/s

95th percentile per-packet one-way delay: 86.347 ms

Loss rate: 0.00%

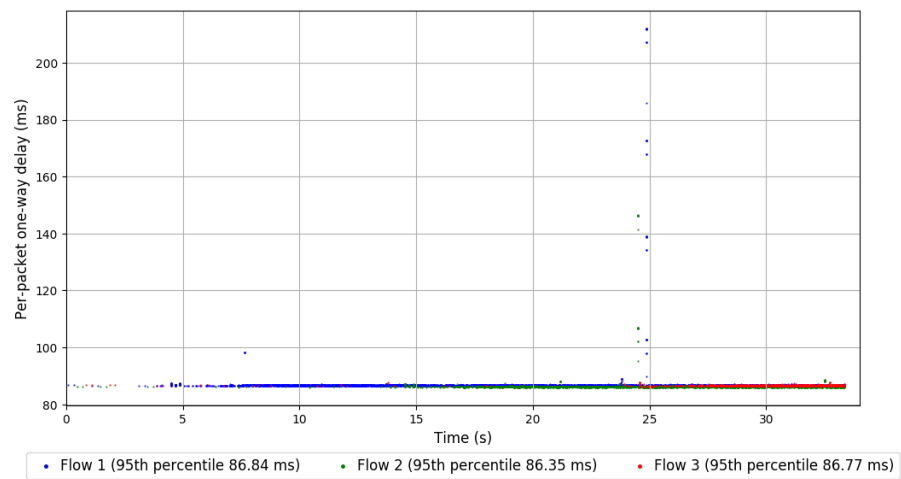
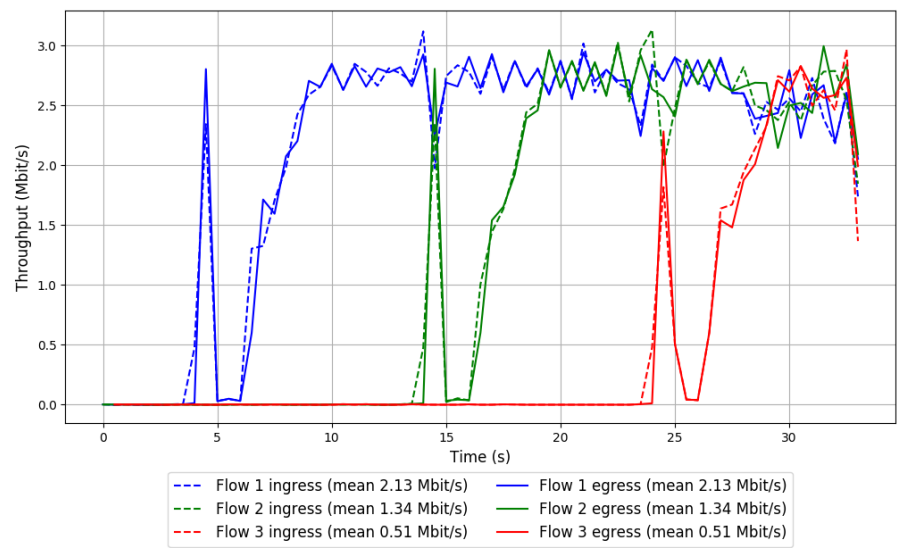
-- Flow 3:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 86.773 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2017-11-21 16:33:53

End at: 2017-11-21 16:34:23

Below is generated by plot.py at 2017-11-21 18:52:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.26 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.31 Mbit/s

95th percentile per-packet one-way delay: 86.704 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.43 Mbit/s

95th percentile per-packet one-way delay: 87.122 ms

Loss rate: 0.00%

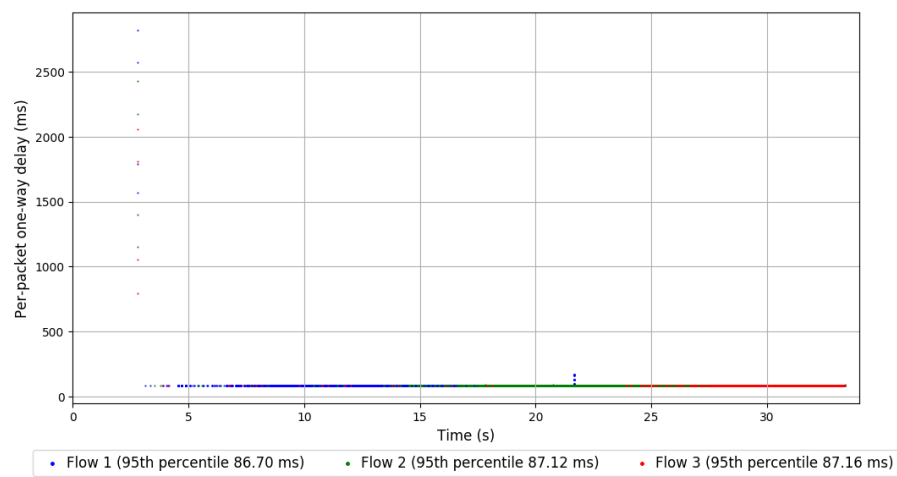
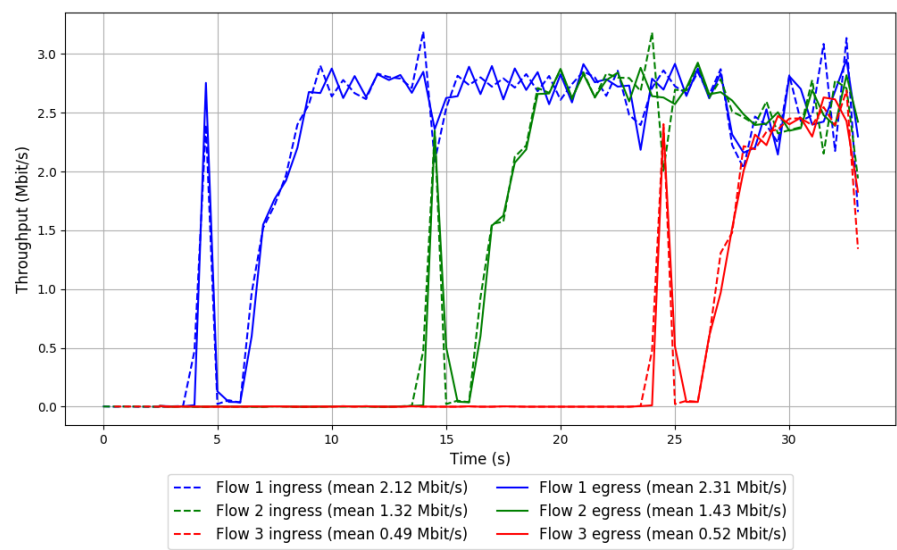
-- Flow 3:

Average throughput: 0.52 Mbit/s

95th percentile per-packet one-way delay: 87.160 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2017-11-21 16:47:02

End at: 2017-11-21 16:47:32

Below is generated by plot.py at 2017-11-21 18:52:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.01 Mbit/s

95th percentile per-packet one-way delay: 87.096 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.18 Mbit/s

95th percentile per-packet one-way delay: 86.383 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.33 Mbit/s

95th percentile per-packet one-way delay: 87.171 ms

Loss rate: 0.00%

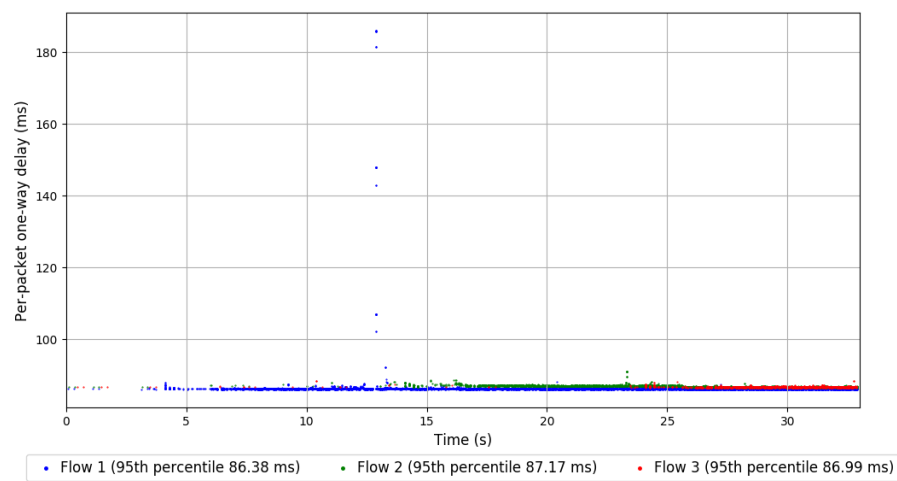
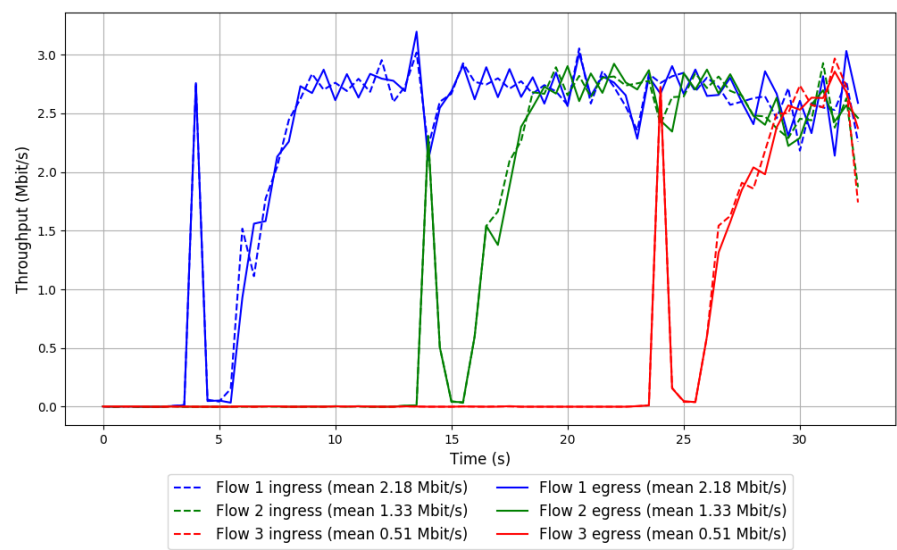
-- Flow 3:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 86.991 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2017-11-21 17:00:07

End at: 2017-11-21 17:00:37

Below is generated by plot.py at 2017-11-21 18:52:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.14 Mbit/s

95th percentile per-packet one-way delay: 86.631 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 86.454 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.38 Mbit/s

95th percentile per-packet one-way delay: 86.419 ms

Loss rate: 0.00%

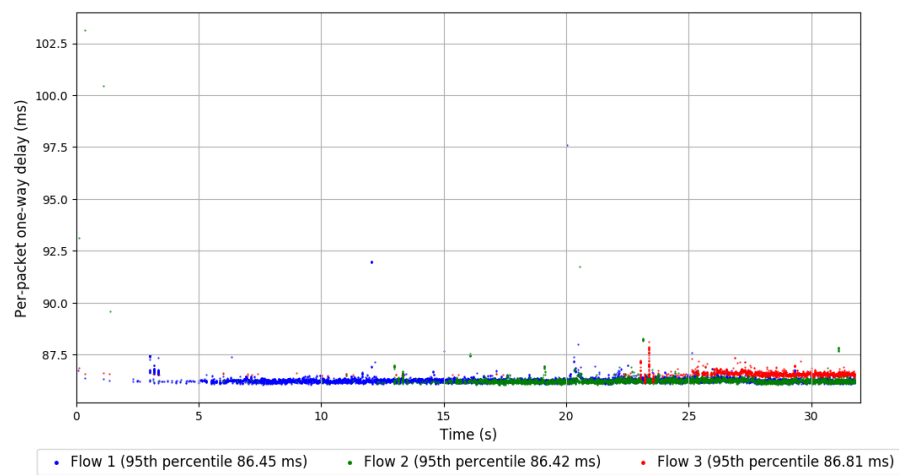
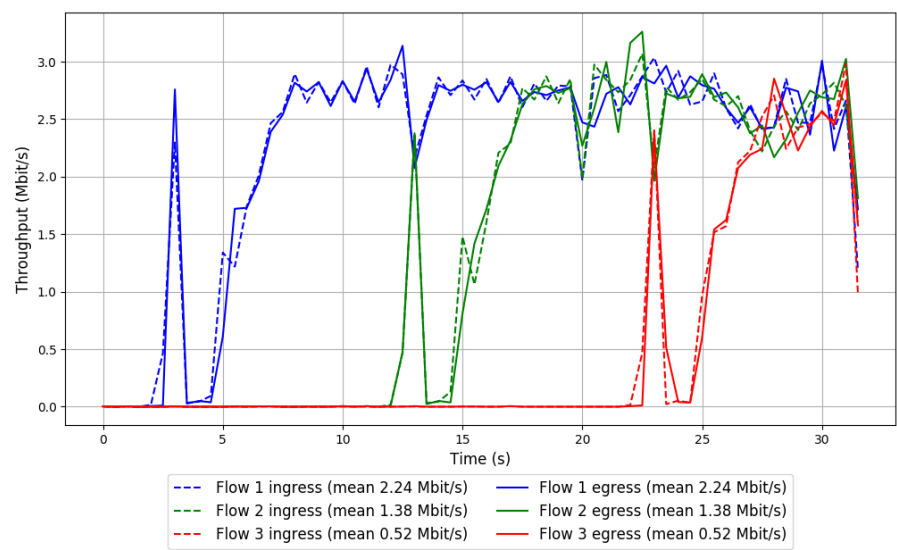
-- Flow 3:

Average throughput: 0.52 Mbit/s

95th percentile per-packet one-way delay: 86.805 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2017-11-21 15:08:19

End at: 2017-11-21 15:08:49

Below is generated by plot.py at 2017-11-21 18:52:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 8.31 Mbit/s

95th percentile per-packet one-way delay: 87.568 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 4.41 Mbit/s

95th percentile per-packet one-way delay: 87.574 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 4.05 Mbit/s

95th percentile per-packet one-way delay: 87.579 ms

Loss rate: 0.03%

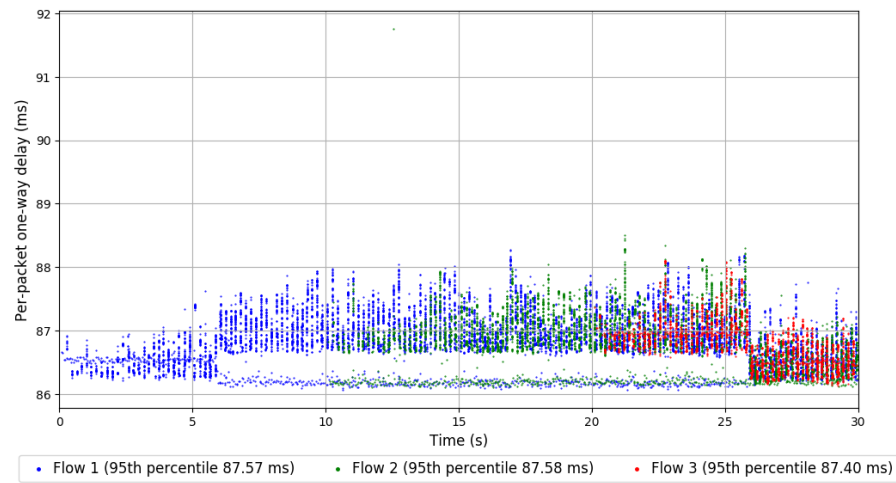
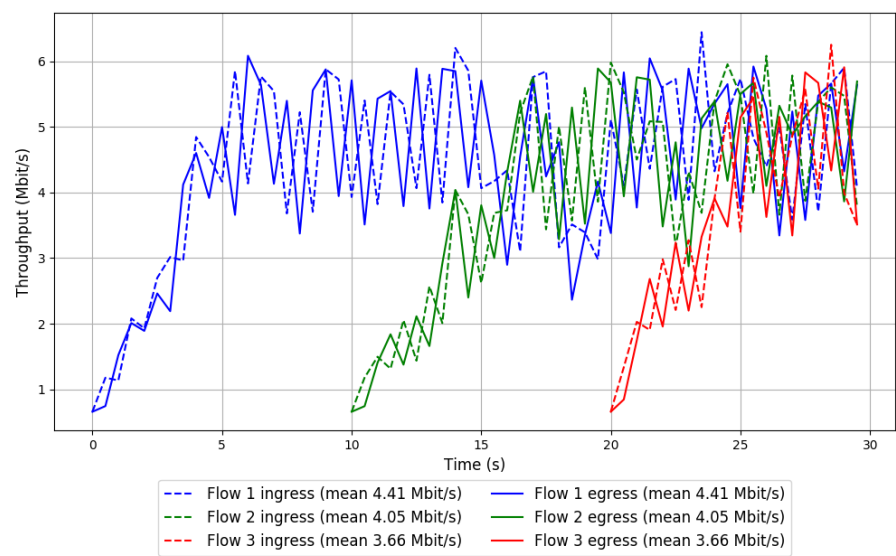
-- Flow 3:

Average throughput: 3.66 Mbit/s

95th percentile per-packet one-way delay: 87.399 ms

Loss rate: 0.00%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2017-11-21 15:21:28

End at: 2017-11-21 15:21:58

Below is generated by plot.py at 2017-11-21 18:52:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 8.27 Mbit/s

95th percentile per-packet one-way delay: 87.466 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 4.52 Mbit/s

95th percentile per-packet one-way delay: 87.492 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 3.99 Mbit/s

95th percentile per-packet one-way delay: 87.461 ms

Loss rate: 0.00%

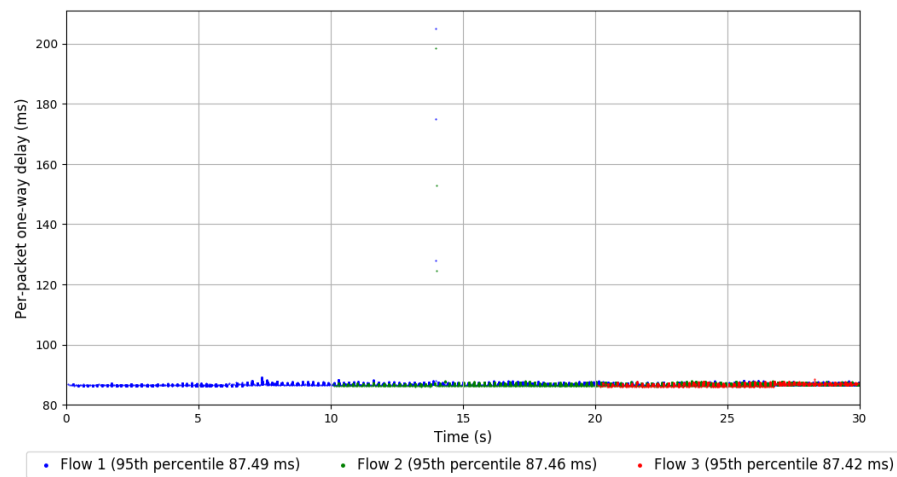
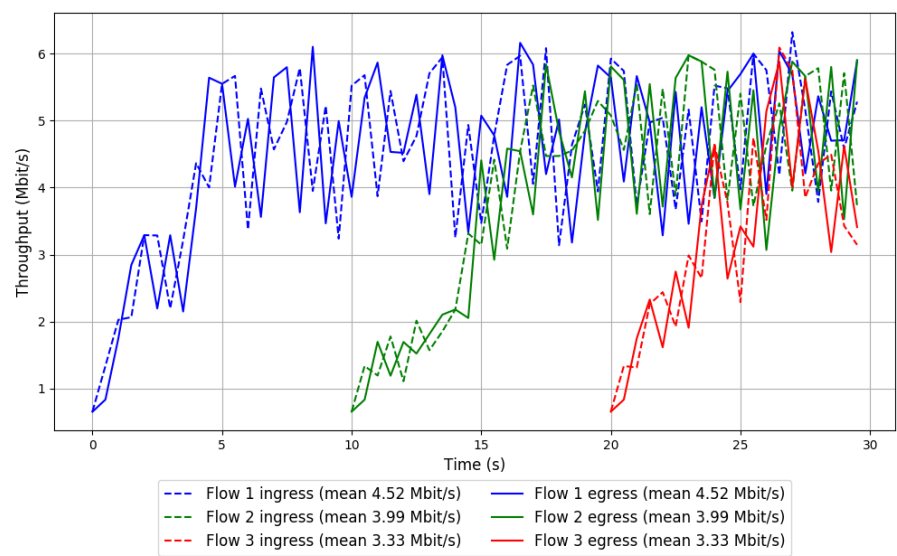
-- Flow 3:

Average throughput: 3.33 Mbit/s

95th percentile per-packet one-way delay: 87.419 ms

Loss rate: 0.00%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2017-11-21 15:34:53

End at: 2017-11-21 15:35:23

Below is generated by plot.py at 2017-11-21 18:52:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 8.03 Mbit/s

95th percentile per-packet one-way delay: 87.479 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 4.11 Mbit/s

95th percentile per-packet one-way delay: 87.438 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 4.10 Mbit/s

95th percentile per-packet one-way delay: 87.565 ms

Loss rate: 0.00%

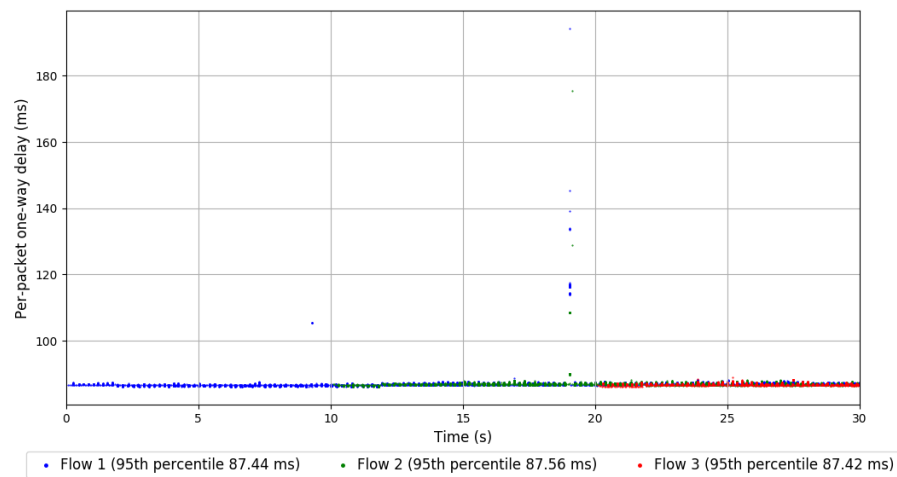
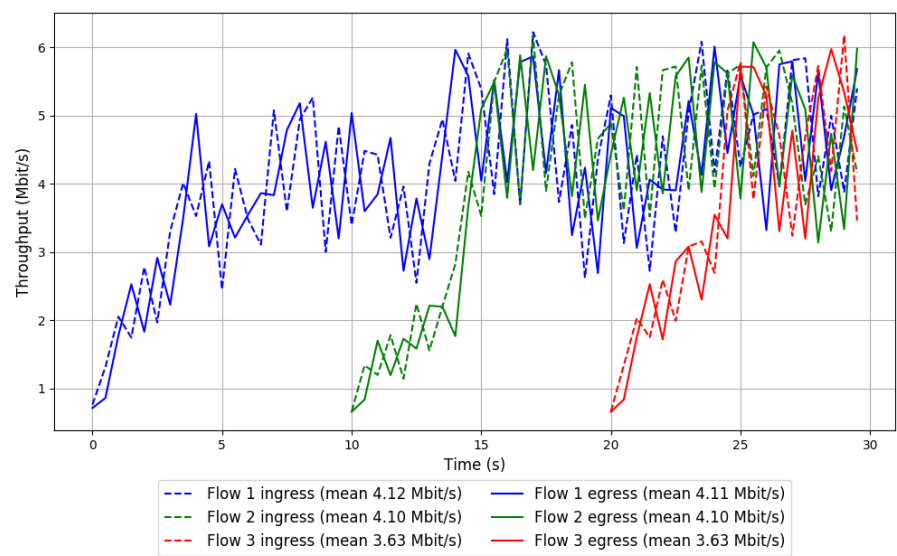
-- Flow 3:

Average throughput: 3.63 Mbit/s

95th percentile per-packet one-way delay: 87.425 ms

Loss rate: 0.00%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2017-11-21 15:47:56

End at: 2017-11-21 15:48:26

Below is generated by plot.py at 2017-11-21 18:52:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 7.39 Mbit/s

95th percentile per-packet one-way delay: 87.455 ms

Loss rate: 0.43%

-- Flow 1:

Average throughput: 3.56 Mbit/s

95th percentile per-packet one-way delay: 87.510 ms

Loss rate: 0.89%

-- Flow 2:

Average throughput: 3.85 Mbit/s

95th percentile per-packet one-way delay: 87.416 ms

Loss rate: 0.00%

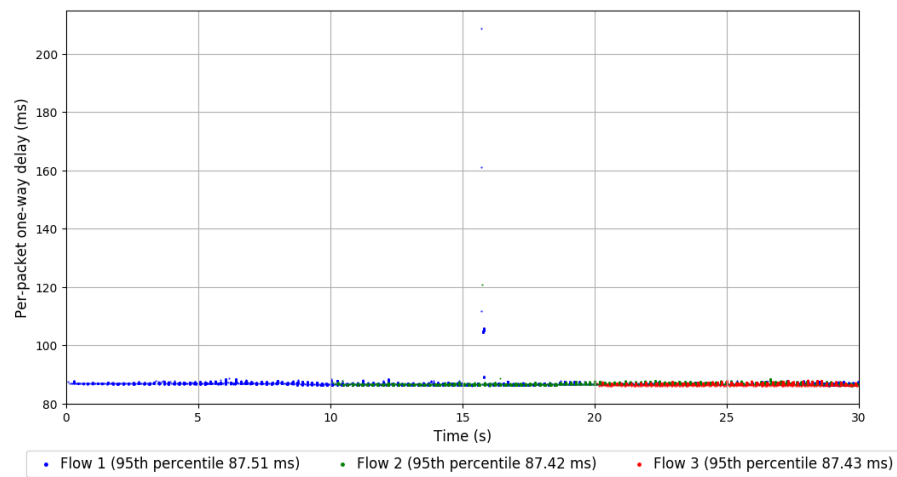
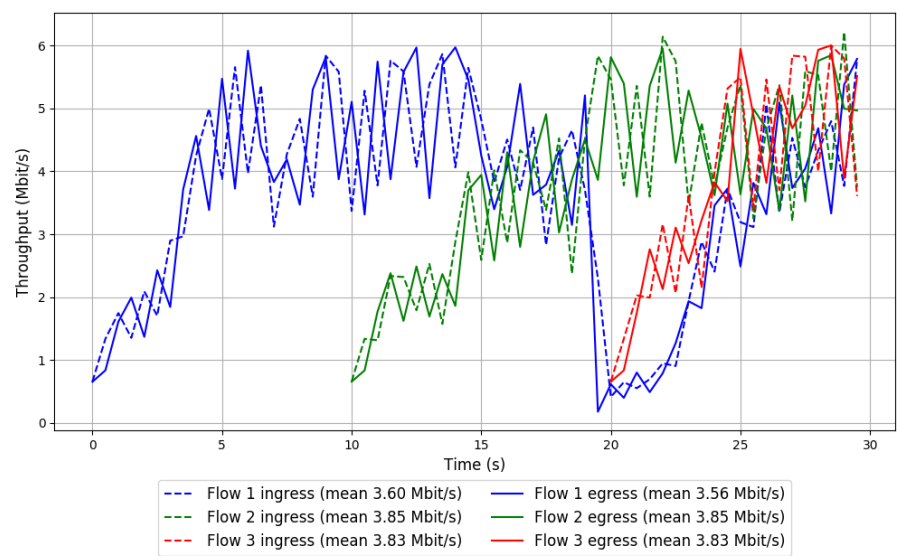
-- Flow 3:

Average throughput: 3.83 Mbit/s

95th percentile per-packet one-way delay: 87.428 ms

Loss rate: 0.00%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2017-11-21 16:01:02

End at: 2017-11-21 16:01:32

Below is generated by plot.py at 2017-11-21 18:52:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 7.77 Mbit/s

95th percentile per-packet one-way delay: 87.612 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 4.21 Mbit/s

95th percentile per-packet one-way delay: 87.868 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 3.84 Mbit/s

95th percentile per-packet one-way delay: 87.460 ms

Loss rate: 0.05%

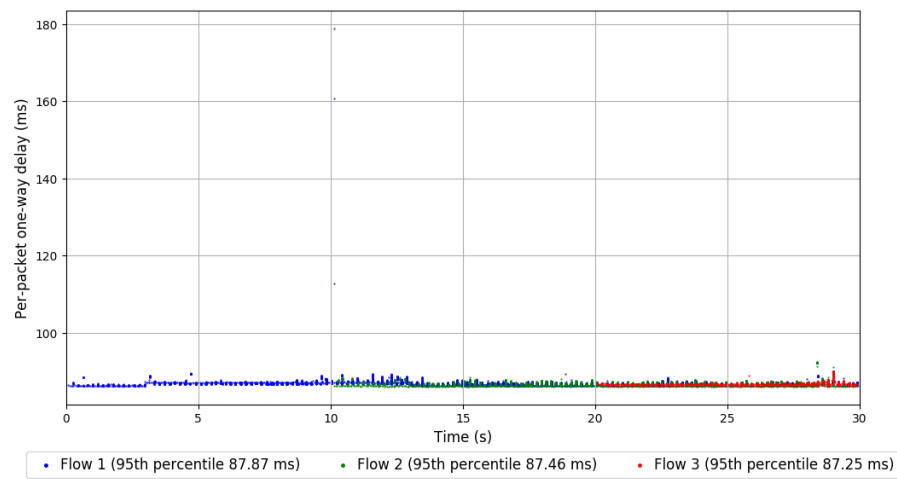
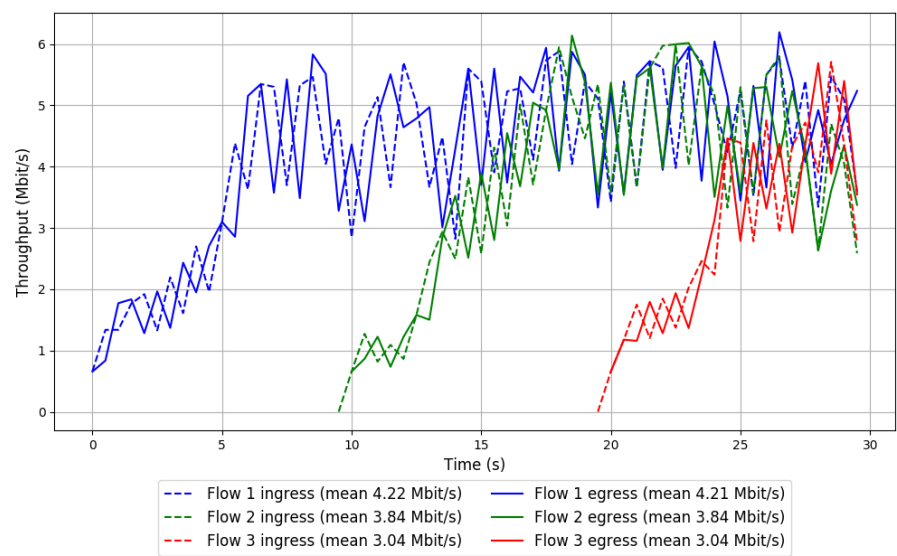
-- Flow 3:

Average throughput: 3.04 Mbit/s

95th percentile per-packet one-way delay: 87.254 ms

Loss rate: 0.00%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2017-11-21 16:14:07

End at: 2017-11-21 16:14:37

Below is generated by plot.py at 2017-11-21 18:52:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 7.90 Mbit/s

95th percentile per-packet one-way delay: 87.724 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 4.06 Mbit/s

95th percentile per-packet one-way delay: 87.559 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 4.06 Mbit/s

95th percentile per-packet one-way delay: 87.858 ms

Loss rate: 0.00%

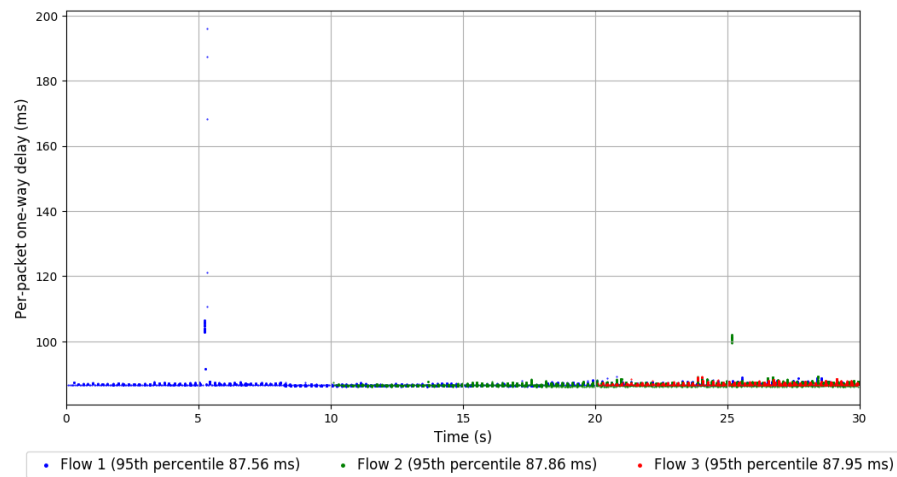
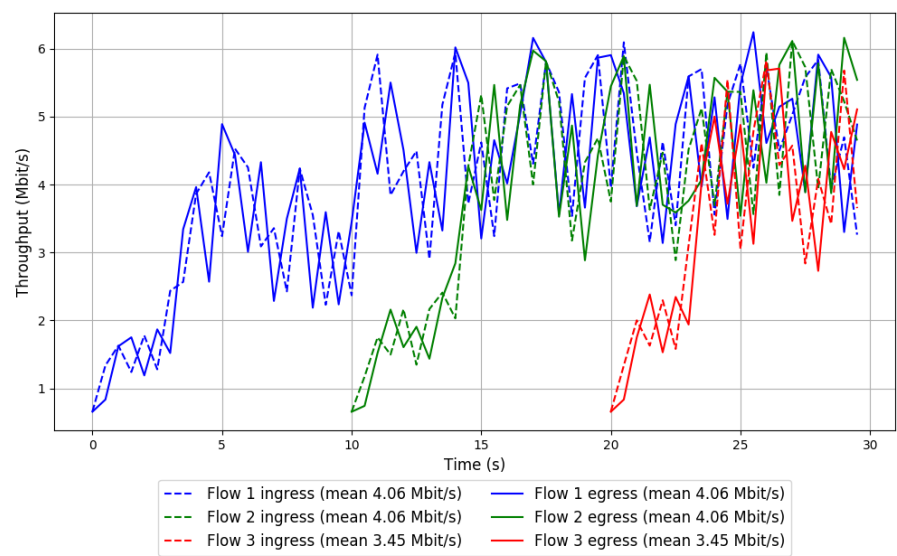
-- Flow 3:

Average throughput: 3.45 Mbit/s

95th percentile per-packet one-way delay: 87.947 ms

Loss rate: 0.07%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2017-11-21 16:27:17

End at: 2017-11-21 16:27:47

Below is generated by plot.py at 2017-11-21 18:52:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 7.89 Mbit/s

95th percentile per-packet one-way delay: 87.498 ms

Loss rate: 0.25%

-- Flow 1:

Average throughput: 4.32 Mbit/s

95th percentile per-packet one-way delay: 87.450 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 3.77 Mbit/s

95th percentile per-packet one-way delay: 87.754 ms

Loss rate: 0.61%

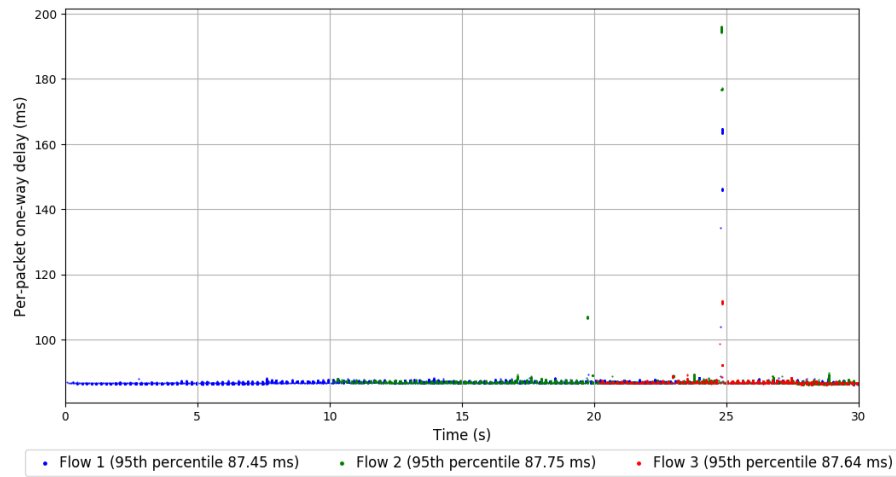
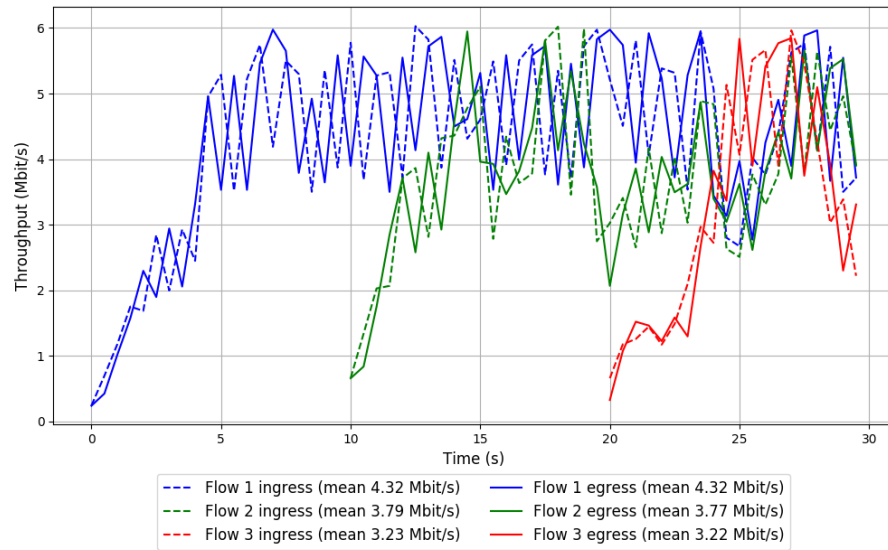
-- Flow 3:

Average throughput: 3.22 Mbit/s

95th percentile per-packet one-way delay: 87.642 ms

Loss rate: 0.19%

Run 7: Report of Sprout — Data Link

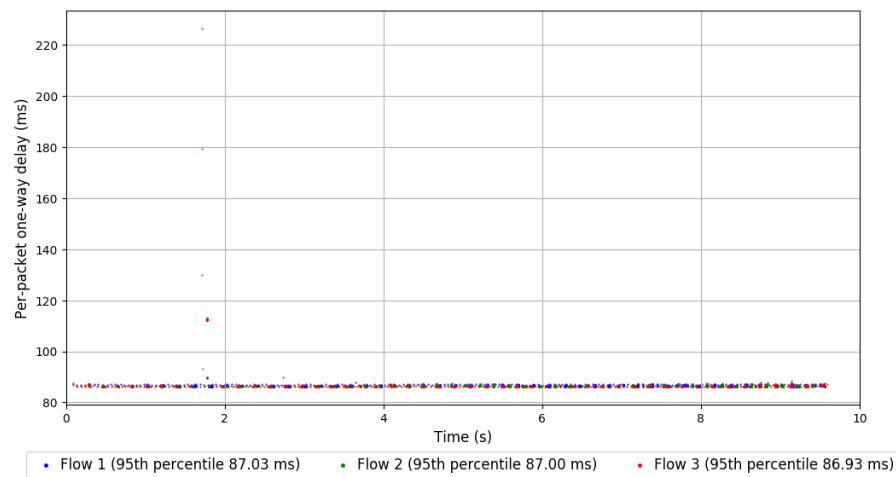
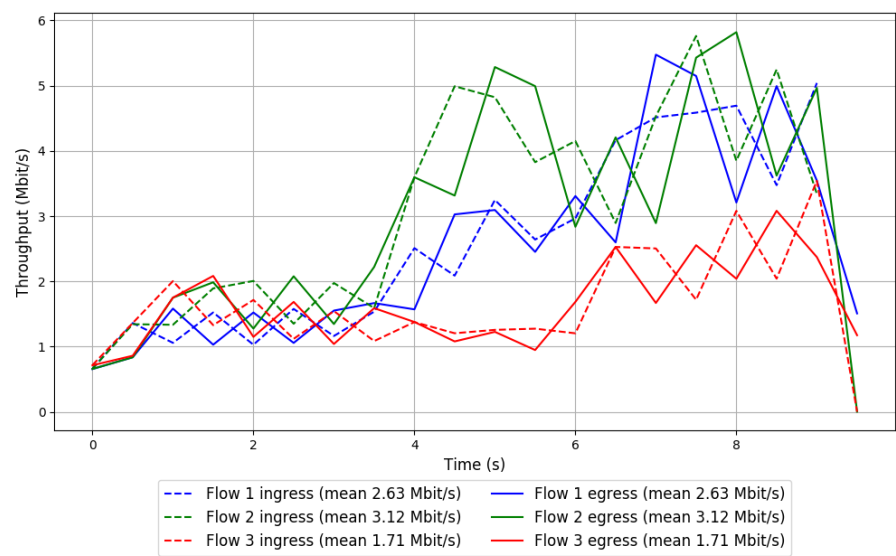


Run 8: Statistics of Sprout

Start at: 2017-11-21 16:40:20

End at: 2017-11-21 16:40:50

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2017-11-21 16:53:24

End at: 2017-11-21 16:53:54

Below is generated by plot.py at 2017-11-21 18:52:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 8.36 Mbit/s

95th percentile per-packet one-way delay: 87.472 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 4.31 Mbit/s

95th percentile per-packet one-way delay: 87.372 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 4.36 Mbit/s

95th percentile per-packet one-way delay: 87.553 ms

Loss rate: 0.00%

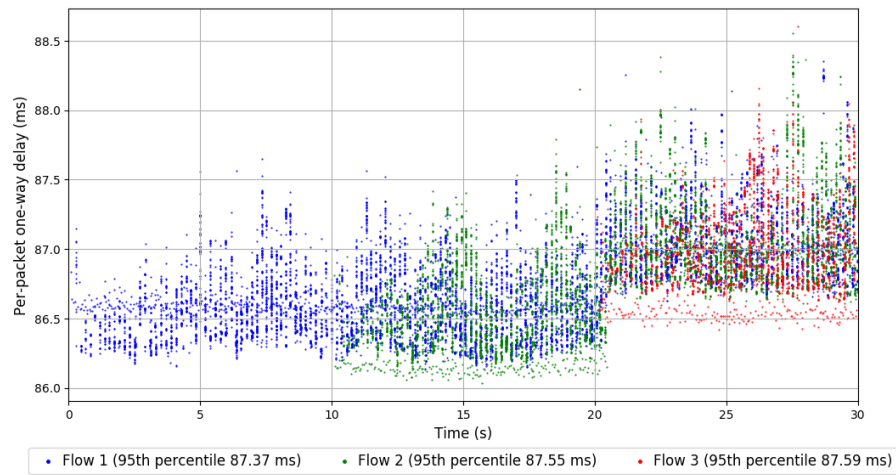
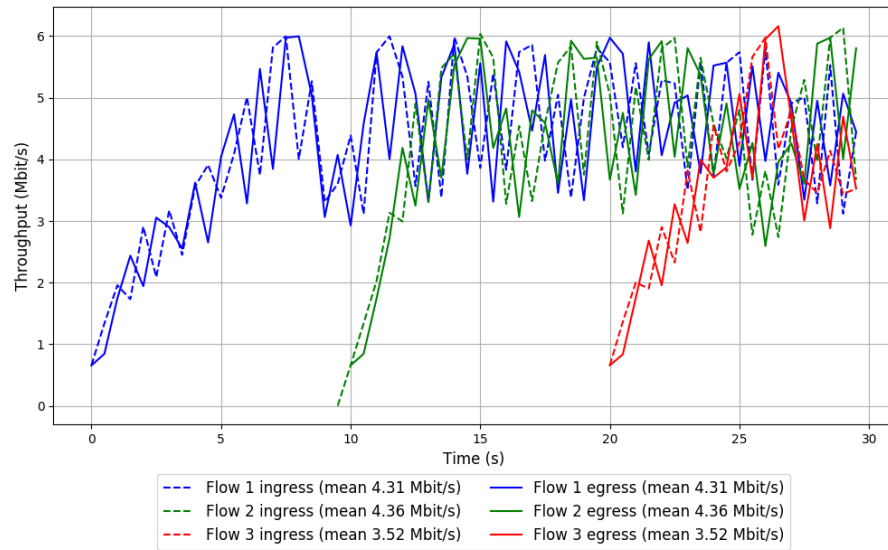
-- Flow 3:

Average throughput: 3.52 Mbit/s

95th percentile per-packet one-way delay: 87.594 ms

Loss rate: 0.00%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2017-11-21 17:06:28

End at: 2017-11-21 17:06:58

Below is generated by plot.py at 2017-11-21 18:52:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 7.98 Mbit/s

95th percentile per-packet one-way delay: 87.175 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 4.30 Mbit/s

95th percentile per-packet one-way delay: 87.161 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 4.03 Mbit/s

95th percentile per-packet one-way delay: 87.140 ms

Loss rate: 0.06%

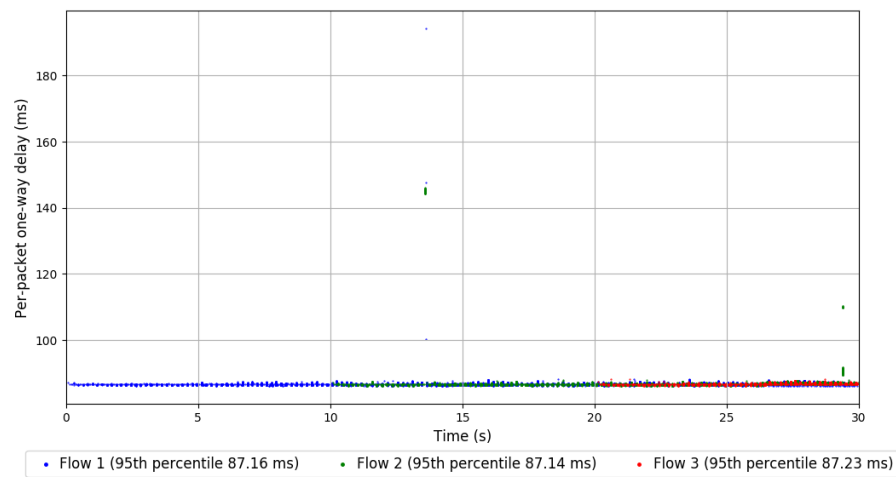
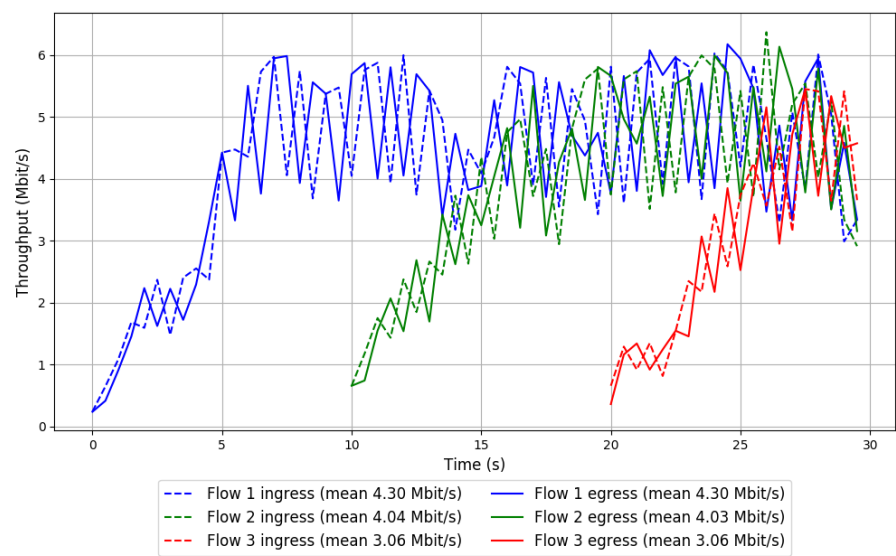
-- Flow 3:

Average throughput: 3.06 Mbit/s

95th percentile per-packet one-way delay: 87.228 ms

Loss rate: 0.00%

Run 10: Report of Sprout — Data Link

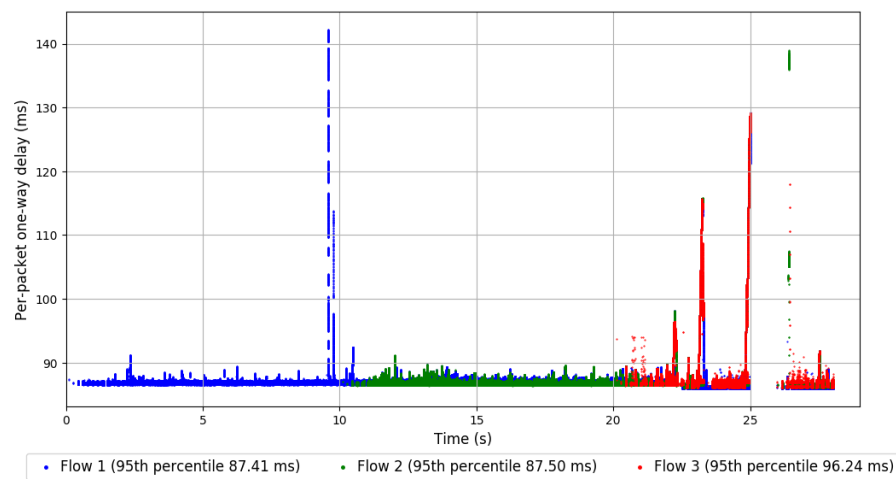
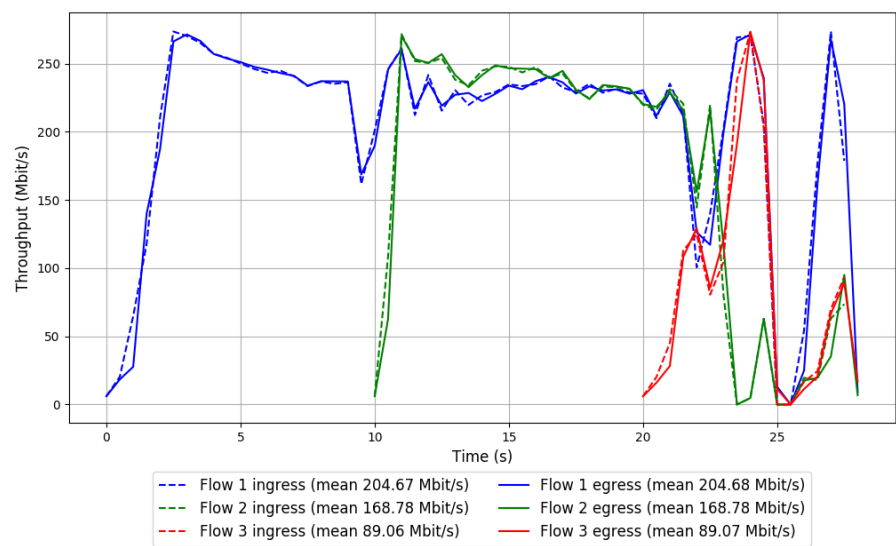


```
Run 1: Statistics of TaoVA-100x

Start at: 2017-11-21 15:07:00
End at: 2017-11-21 15:07:30

# Below is generated by plot.py at 2017-11-21 18:58:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 338.29 Mbit/s
95th percentile per-packet one-way delay: 87.525 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 204.68 Mbit/s
95th percentile per-packet one-way delay: 87.413 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 168.78 Mbit/s
95th percentile per-packet one-way delay: 87.503 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 89.07 Mbit/s
95th percentile per-packet one-way delay: 96.243 ms
Loss rate: 0.00%
```


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

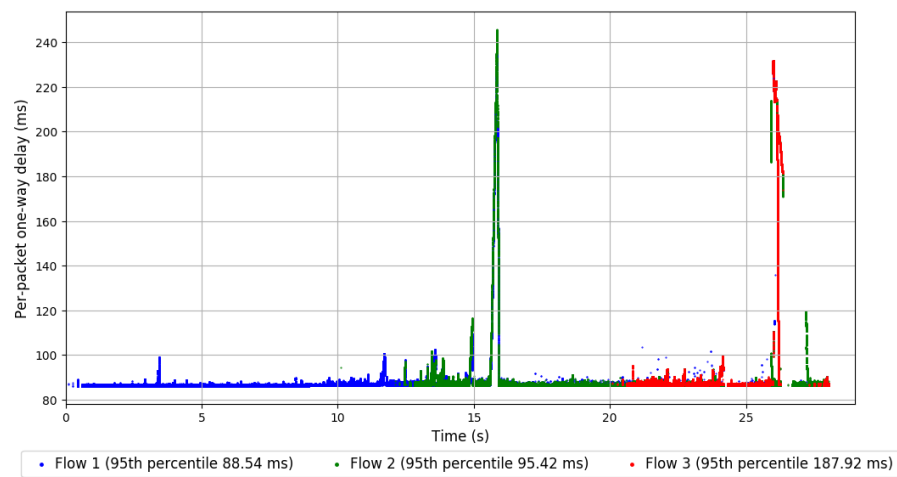
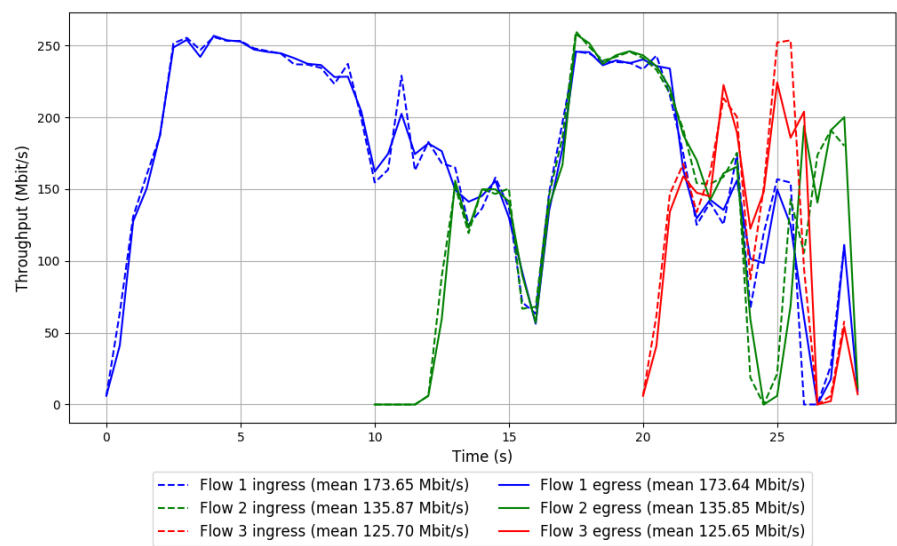


```
Run 2: Statistics of TaoVA-100x

Start at: 2017-11-21 15:20:14
End at: 2017-11-21 15:20:44

# Below is generated by plot.py at 2017-11-21 18:58:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 296.43 Mbit/s
95th percentile per-packet one-way delay: 91.043 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 173.64 Mbit/s
95th percentile per-packet one-way delay: 88.540 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 135.85 Mbit/s
95th percentile per-packet one-way delay: 95.424 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 125.65 Mbit/s
95th percentile per-packet one-way delay: 187.921 ms
Loss rate: 0.05%
```

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



Run 3: Statistics of TaoVA-100x

Start at: 2017-11-21 15:33:36

End at: 2017-11-21 15:34:06

Below is generated by plot.py at 2017-11-21 18:58:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 321.55 Mbit/s

95th percentile per-packet one-way delay: 88.580 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 169.42 Mbit/s

95th percentile per-packet one-way delay: 87.220 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 158.85 Mbit/s

95th percentile per-packet one-way delay: 87.373 ms

Loss rate: 0.02%

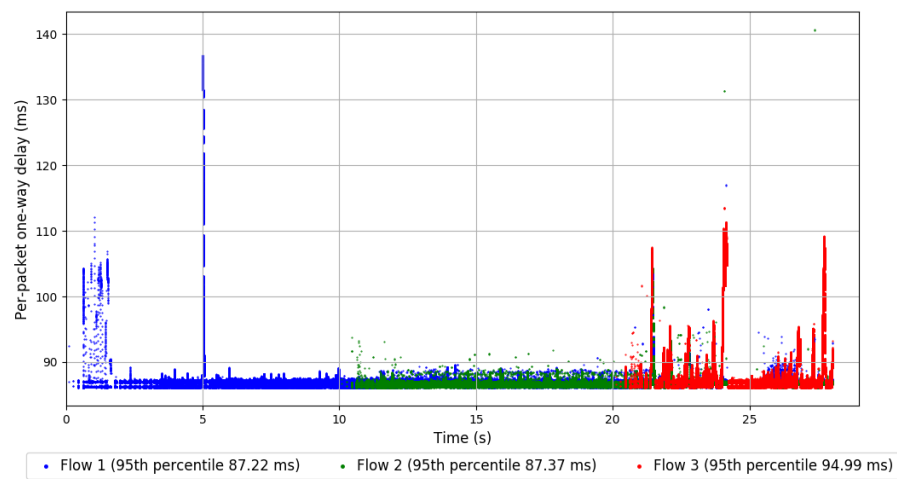
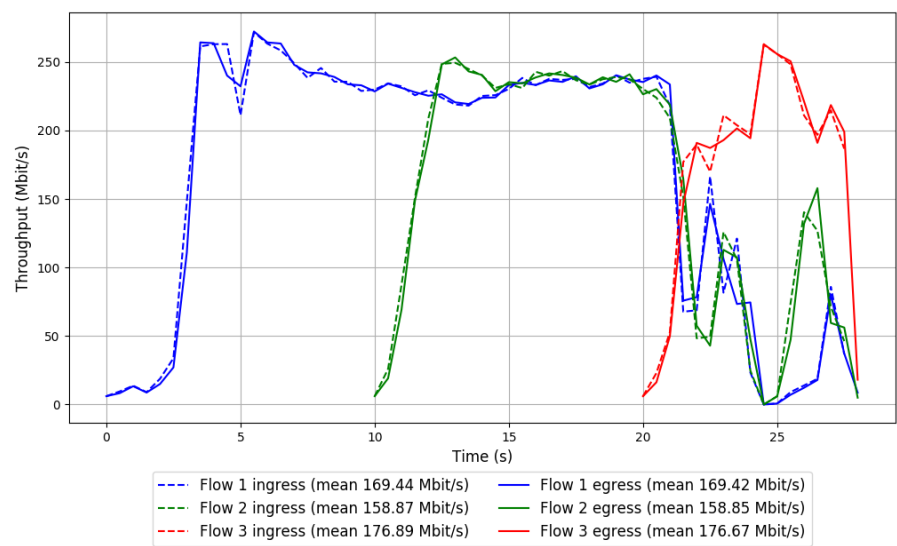
-- Flow 3:

Average throughput: 176.67 Mbit/s

95th percentile per-packet one-way delay: 94.994 ms

Loss rate: 0.12%

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



Run 4: Statistics of TaoVA-100x

Start at: 2017-11-21 15:46:37

End at: 2017-11-21 15:47:07

Below is generated by plot.py at 2017-11-21 18:58:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 318.60 Mbit/s

95th percentile per-packet one-way delay: 89.649 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 190.67 Mbit/s

95th percentile per-packet one-way delay: 88.773 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 150.02 Mbit/s

95th percentile per-packet one-way delay: 89.691 ms

Loss rate: 0.00%

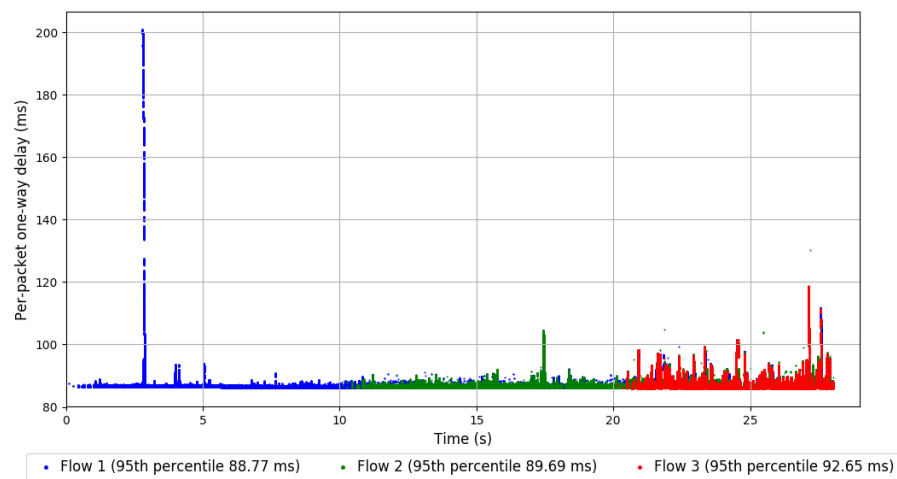
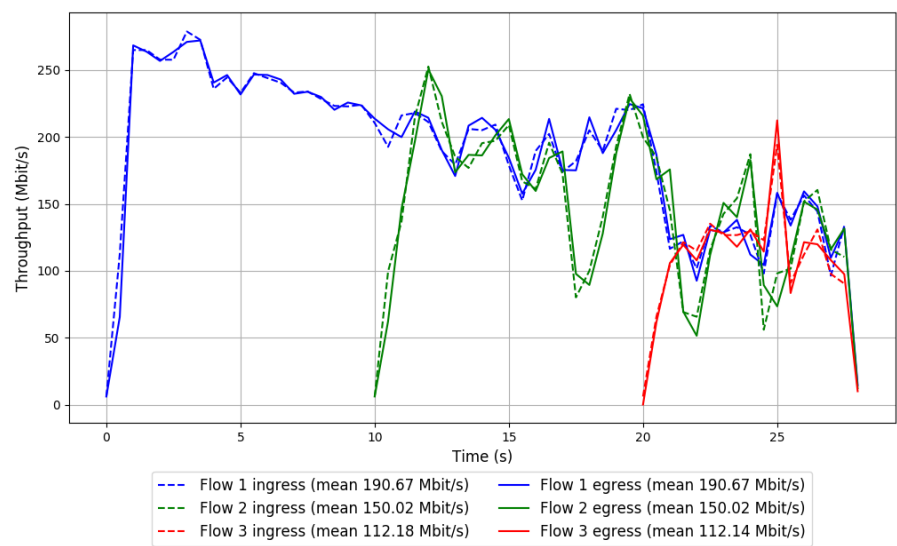
-- Flow 3:

Average throughput: 112.14 Mbit/s

95th percentile per-packet one-way delay: 92.653 ms

Loss rate: 0.03%

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



Run 5: Statistics of TaoVA-100x

Start at: 2017-11-21 15:59:43

End at: 2017-11-21 16:00:13

Below is generated by plot.py at 2017-11-21 18:58:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 307.01 Mbit/s

95th percentile per-packet one-way delay: 89.175 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 181.96 Mbit/s

95th percentile per-packet one-way delay: 87.903 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 167.24 Mbit/s

95th percentile per-packet one-way delay: 90.157 ms

Loss rate: 0.00%

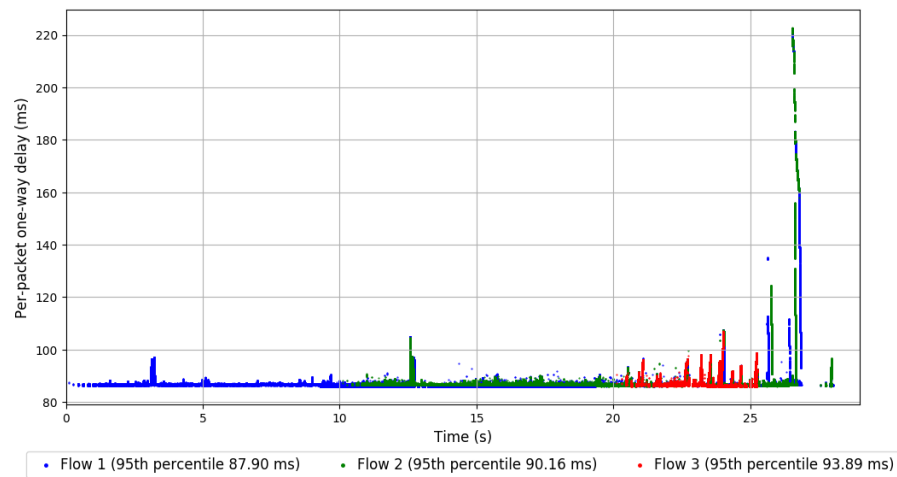
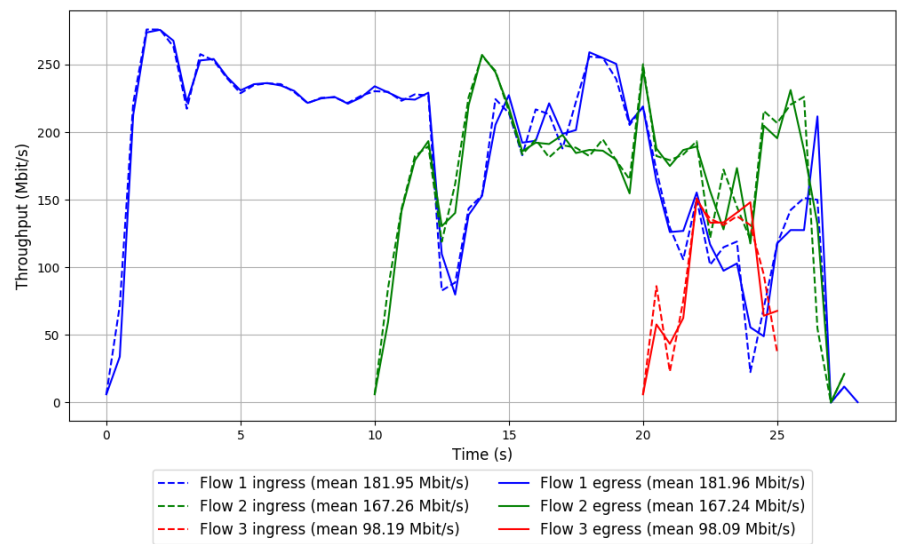
-- Flow 3:

Average throughput: 98.09 Mbit/s

95th percentile per-packet one-way delay: 93.892 ms

Loss rate: 0.00%

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



Run 6: Statistics of TaoVA-100x

Start at: 2017-11-21 16:12:51

End at: 2017-11-21 16:13:21

Below is generated by plot.py at 2017-11-21 18:58:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 308.07 Mbit/s

95th percentile per-packet one-way delay: 88.916 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 170.64 Mbit/s

95th percentile per-packet one-way delay: 87.575 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 158.58 Mbit/s

95th percentile per-packet one-way delay: 89.296 ms

Loss rate: 0.00%

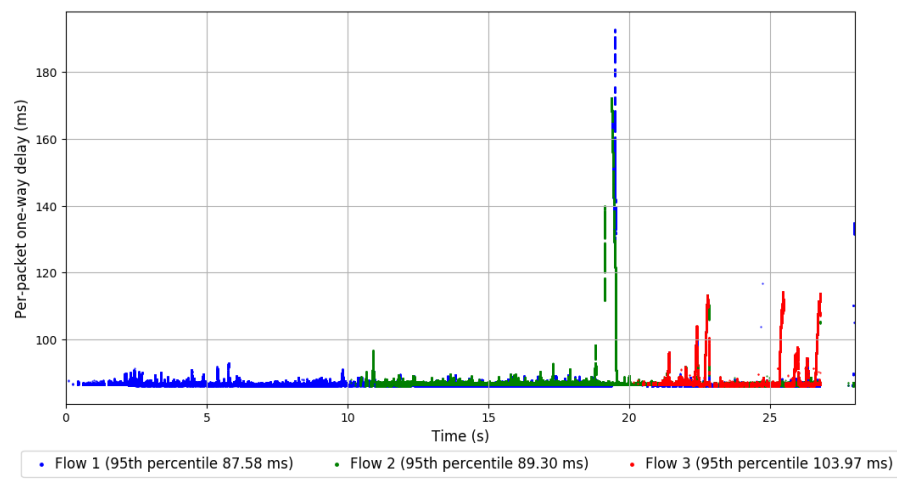
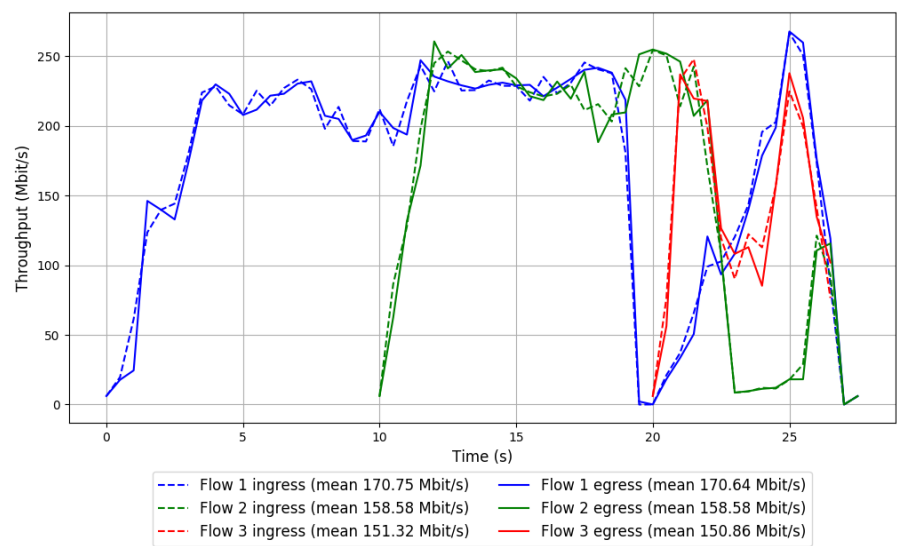
-- Flow 3:

Average throughput: 150.86 Mbit/s

95th percentile per-packet one-way delay: 103.967 ms

Loss rate: 0.00%

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

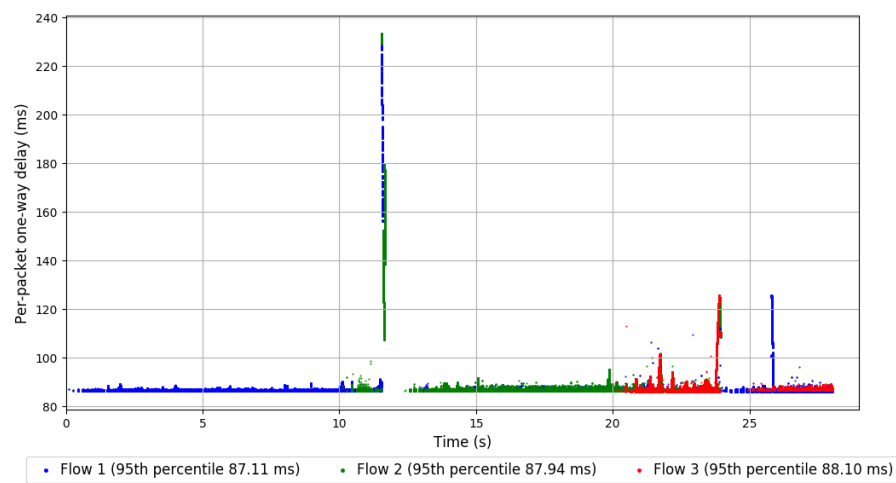
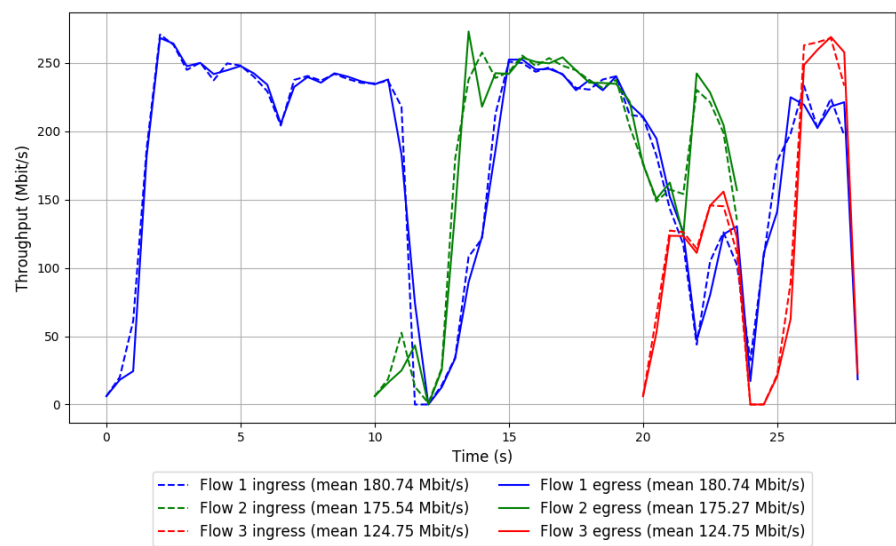


```
Run 7: Statistics of TaoVA-100x

Start at: 2017-11-21 16:25:58
End at: 2017-11-21 16:26:28

# Below is generated by plot.py at 2017-11-21 19:01:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 302.98 Mbit/s
95th percentile per-packet one-way delay: 87.434 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 180.74 Mbit/s
95th percentile per-packet one-way delay: 87.112 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 175.27 Mbit/s
95th percentile per-packet one-way delay: 87.941 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 124.75 Mbit/s
95th percentile per-packet one-way delay: 88.103 ms
Loss rate: 0.00%
```

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



Run 8: Statistics of TaoVA-100x

Start at: 2017-11-21 16:39:03

End at: 2017-11-21 16:39:33

Below is generated by plot.py at 2017-11-21 19:04:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 317.08 Mbit/s

95th percentile per-packet one-way delay: 87.466 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 195.35 Mbit/s

95th percentile per-packet one-way delay: 87.081 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 189.20 Mbit/s

95th percentile per-packet one-way delay: 87.263 ms

Loss rate: 0.00%

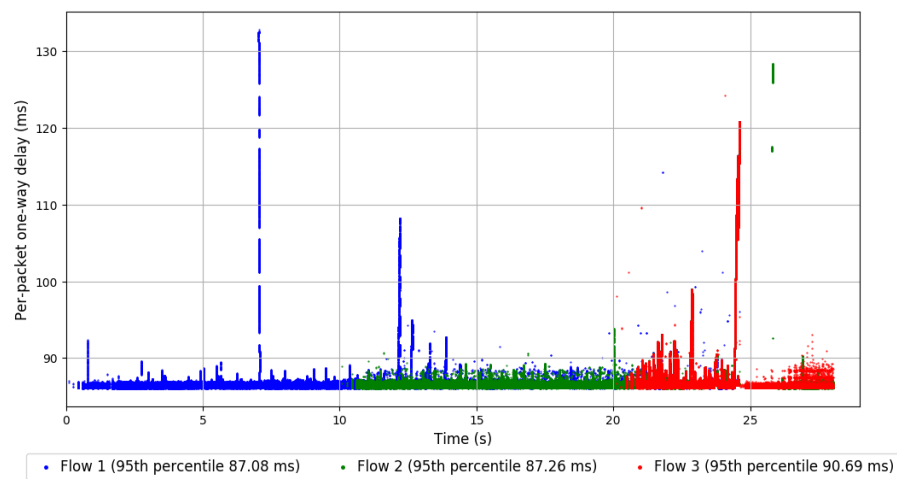
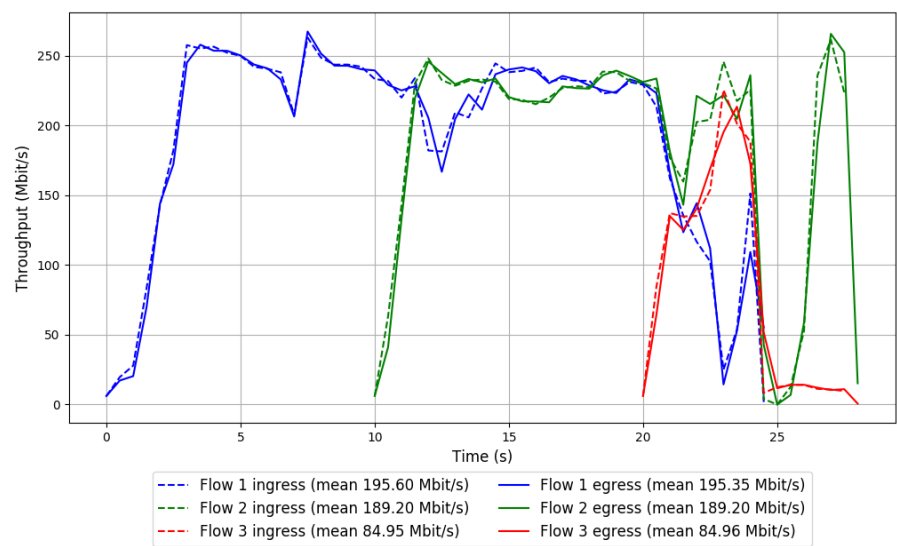
-- Flow 3:

Average throughput: 84.96 Mbit/s

95th percentile per-packet one-way delay: 90.694 ms

Loss rate: 0.00%

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

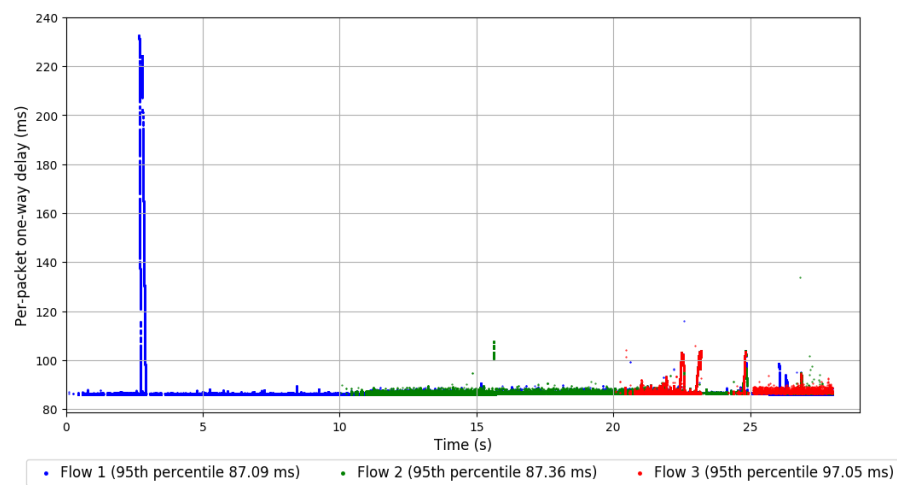
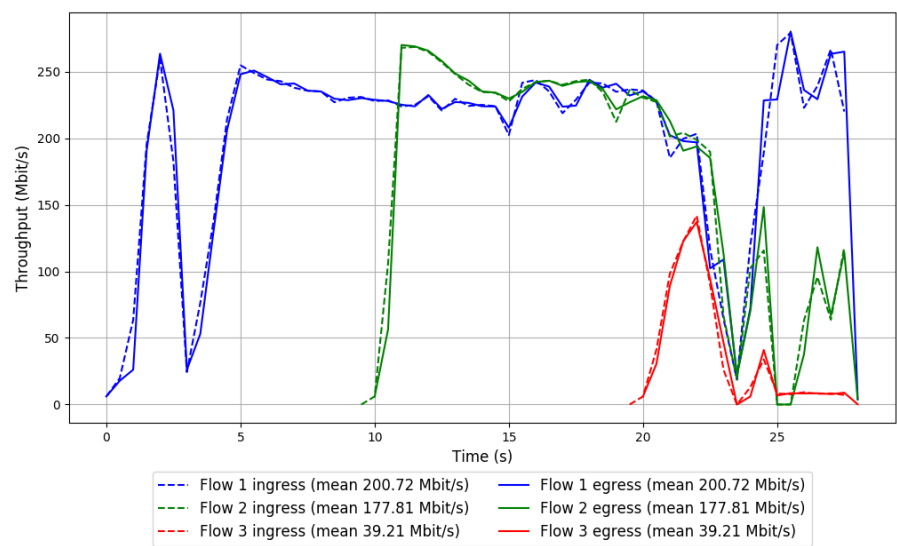


```
Run 9: Statistics of TaoVA-100x

Start at: 2017-11-21 16:52:07
End at: 2017-11-21 16:52:37

# Below is generated by plot.py at 2017-11-21 19:08:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 326.13 Mbit/s
95th percentile per-packet one-way delay: 87.356 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 200.72 Mbit/s
95th percentile per-packet one-way delay: 87.091 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 177.81 Mbit/s
95th percentile per-packet one-way delay: 87.357 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 39.21 Mbit/s
95th percentile per-packet one-way delay: 97.051 ms
Loss rate: 0.00%
```


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

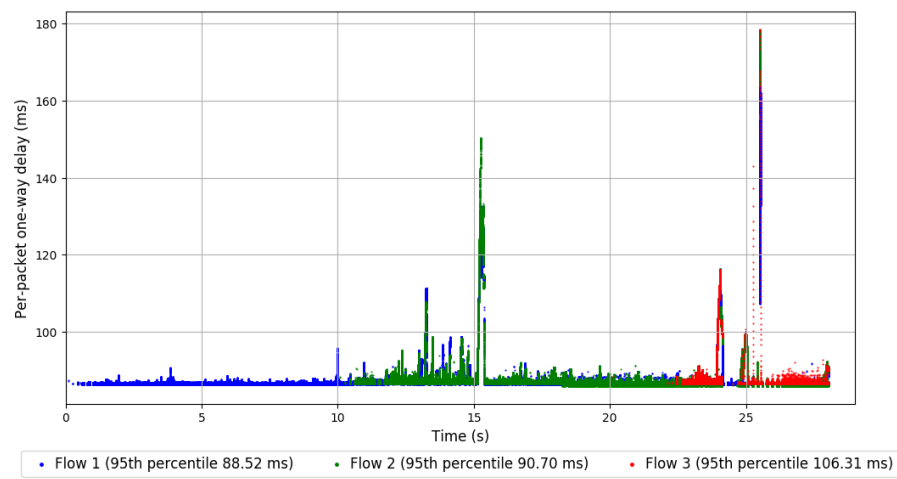
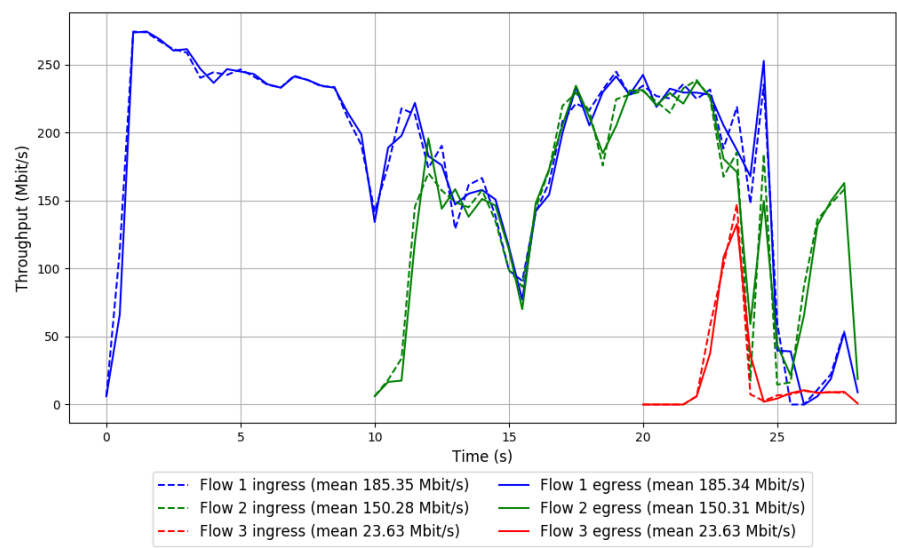


```
Run 10: Statistics of TaoVA-100x

Start at: 2017-11-21 17:05:14
End at: 2017-11-21 17:05:44

# Below is generated by plot.py at 2017-11-21 19:08:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 288.53 Mbit/s
95th percentile per-packet one-way delay: 89.334 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 185.34 Mbit/s
95th percentile per-packet one-way delay: 88.521 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 150.31 Mbit/s
95th percentile per-packet one-way delay: 90.705 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 23.63 Mbit/s
95th percentile per-packet one-way delay: 106.315 ms
Loss rate: 0.01%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2017-11-21 15:05:04

End at: 2017-11-21 15:05:34

Below is generated by plot.py at 2017-11-21 19:08:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 76.05 Mbit/s

95th percentile per-packet one-way delay: 88.319 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 30.09 Mbit/s

95th percentile per-packet one-way delay: 88.679 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 48.97 Mbit/s

95th percentile per-packet one-way delay: 88.603 ms

Loss rate: 0.00%

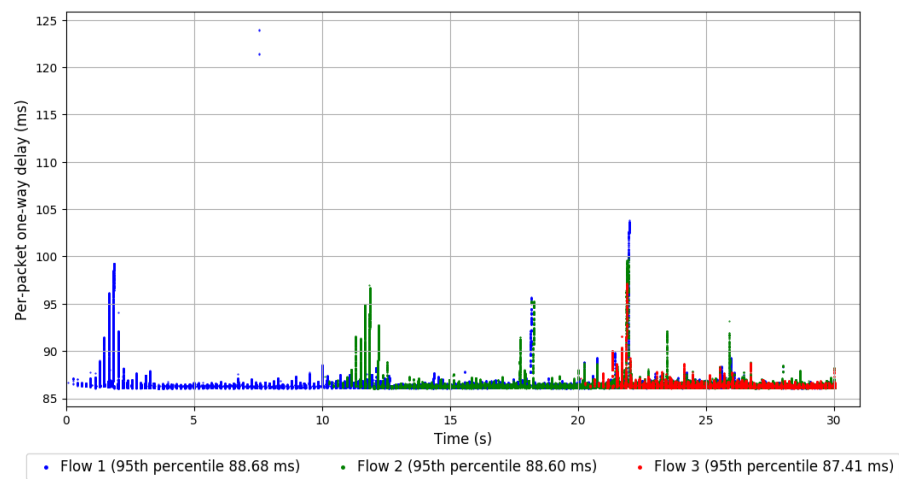
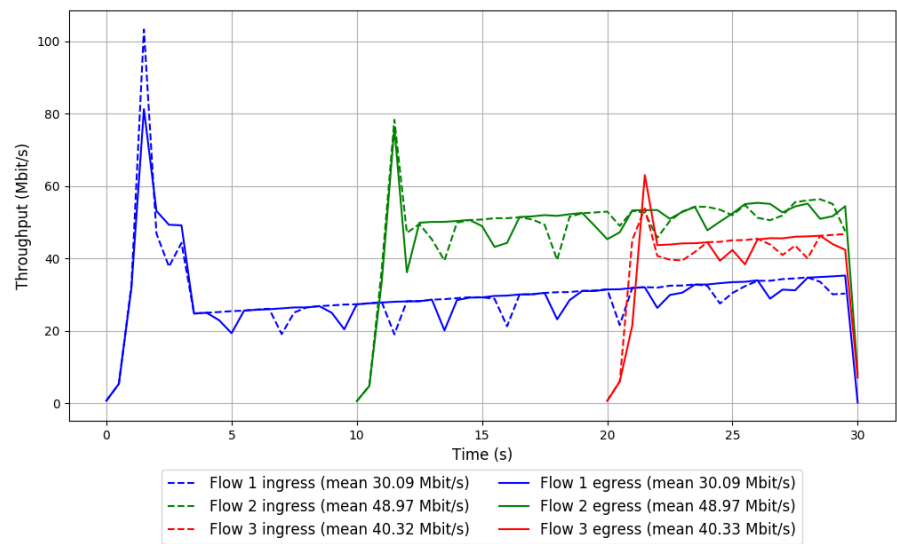
-- Flow 3:

Average throughput: 40.33 Mbit/s

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

Loss rate: 0.00%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2017-11-21 15:18:13

End at: 2017-11-21 15:18:43

Below is generated by plot.py at 2017-11-21 19:08:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 129.50 Mbit/s

95th percentile per-packet one-way delay: 93.657 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 63.67 Mbit/s

95th percentile per-packet one-way delay: 93.485 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 53.65 Mbit/s

95th percentile per-packet one-way delay: 90.231 ms

Loss rate: 0.00%

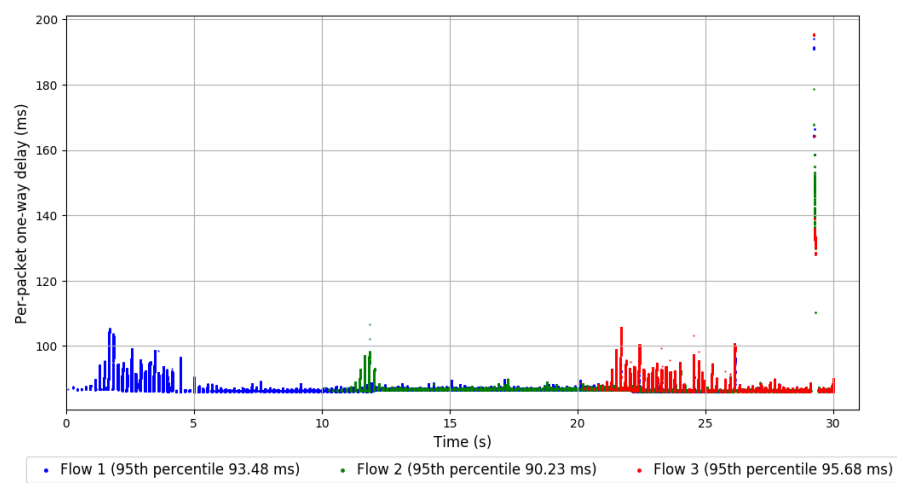
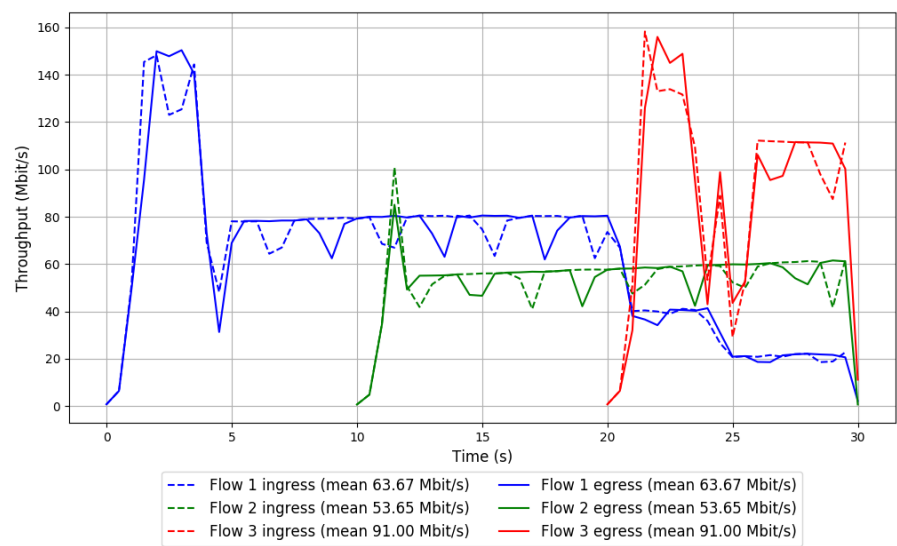
-- Flow 3:

Average throughput: 91.00 Mbit/s

95th percentile per-packet one-way delay: 95.676 ms

Loss rate: 0.00%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2017-11-21 15:31:37

End at: 2017-11-21 15:32:07

Below is generated by plot.py at 2017-11-21 19:08:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 108.64 Mbit/s

95th percentile per-packet one-way delay: 88.007 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 47.46 Mbit/s

95th percentile per-packet one-way delay: 88.079 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 59.01 Mbit/s

95th percentile per-packet one-way delay: 87.792 ms

Loss rate: 0.00%

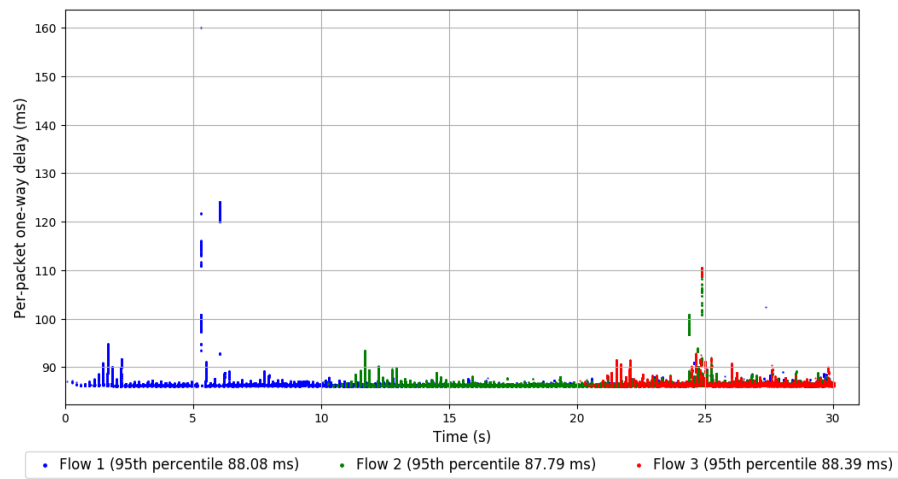
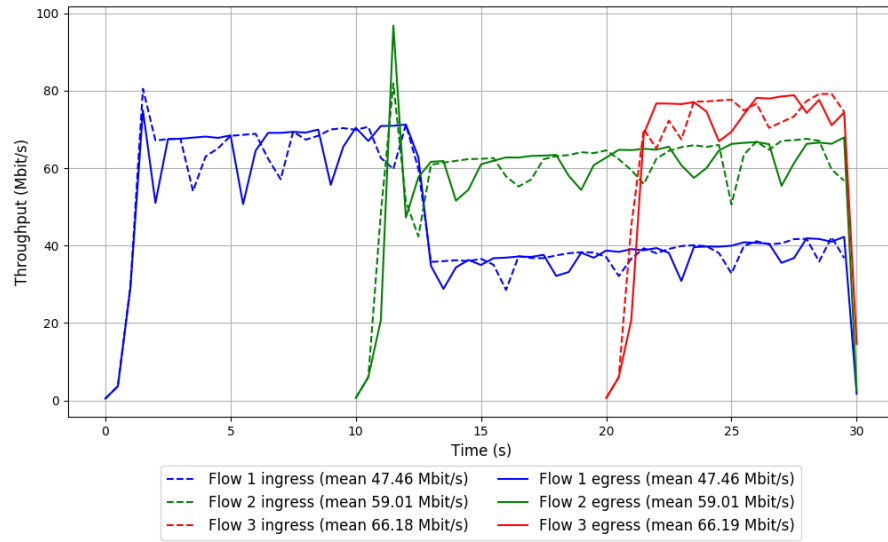
-- Flow 3:

Average throughput: 66.19 Mbit/s

95th percentile per-packet one-way delay: 88.393 ms

Loss rate: 0.00%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2017-11-21 15:44:42

End at: 2017-11-21 15:45:12

Below is generated by plot.py at 2017-11-21 19:08:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 126.38 Mbit/s

95th percentile per-packet one-way delay: 87.785 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 73.17 Mbit/s

95th percentile per-packet one-way delay: 87.596 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 46.04 Mbit/s

95th percentile per-packet one-way delay: 88.040 ms

Loss rate: 0.00%

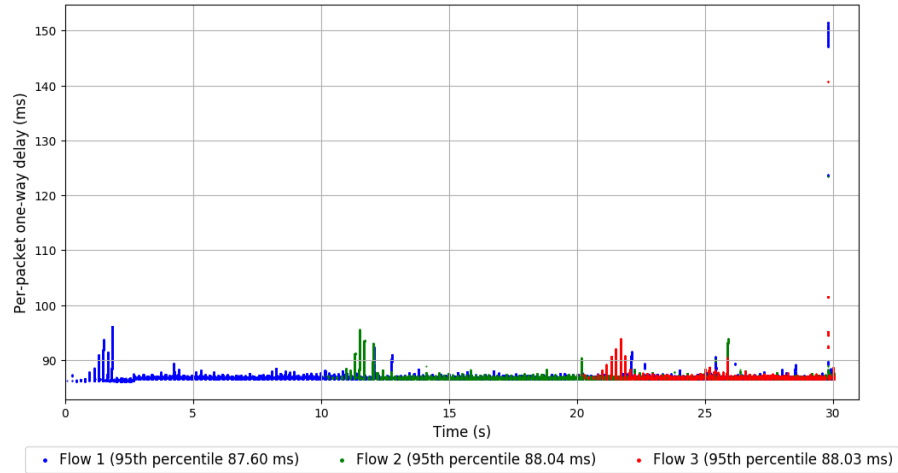
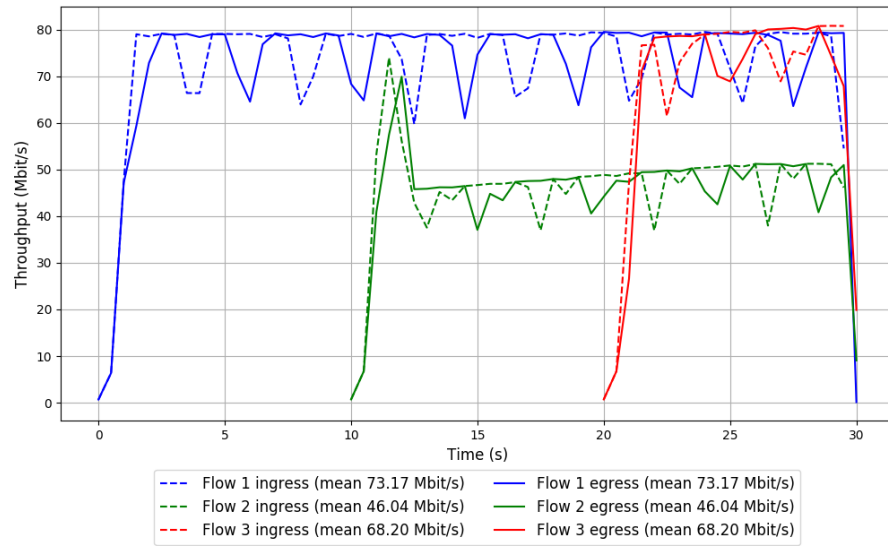
-- Flow 3:

Average throughput: 68.20 Mbit/s

95th percentile per-packet one-way delay: 88.029 ms

Loss rate: 0.00%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2017-11-21 15:57:48

End at: 2017-11-21 15:58:18

Below is generated by plot.py at 2017-11-21 19:08:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 55.09 Mbit/s

95th percentile per-packet one-way delay: 88.044 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 16.18 Mbit/s

95th percentile per-packet one-way delay: 87.233 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 39.69 Mbit/s

95th percentile per-packet one-way delay: 88.008 ms

Loss rate: 0.00%

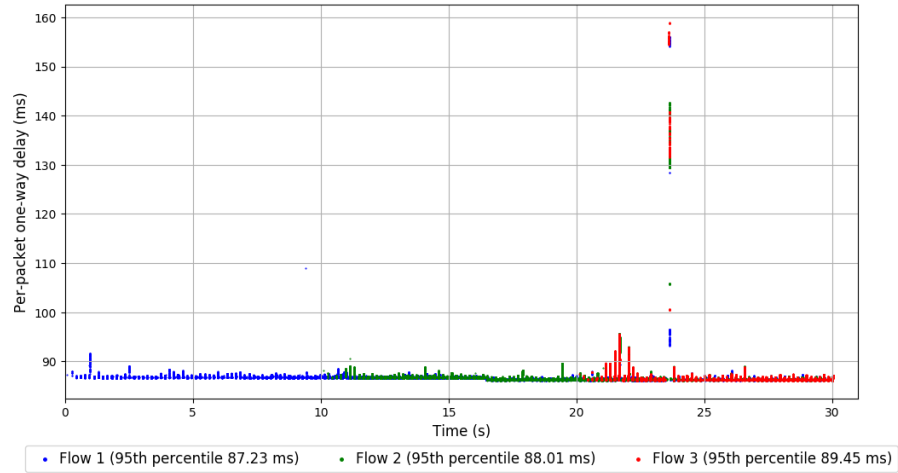
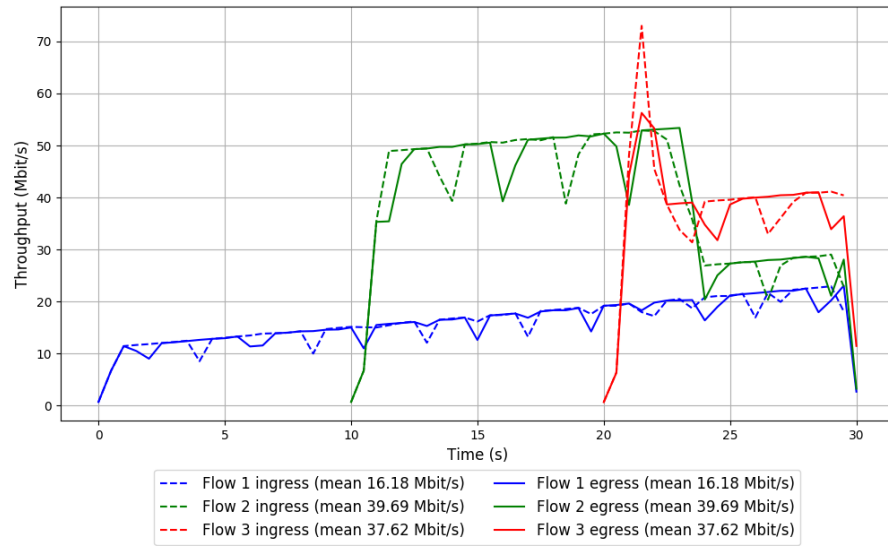
-- Flow 3:

Average throughput: 37.62 Mbit/s

95th percentile per-packet one-way delay: 89.455 ms

Loss rate: 0.00%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2017-11-21 16:10:51

End at: 2017-11-21 16:11:21

Below is generated by plot.py at 2017-11-21 19:08:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.00 Mbit/s

95th percentile per-packet one-way delay: 88.415 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 55.90 Mbit/s

95th percentile per-packet one-way delay: 87.815 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 37.29 Mbit/s

95th percentile per-packet one-way delay: 90.426 ms

Loss rate: 0.00%

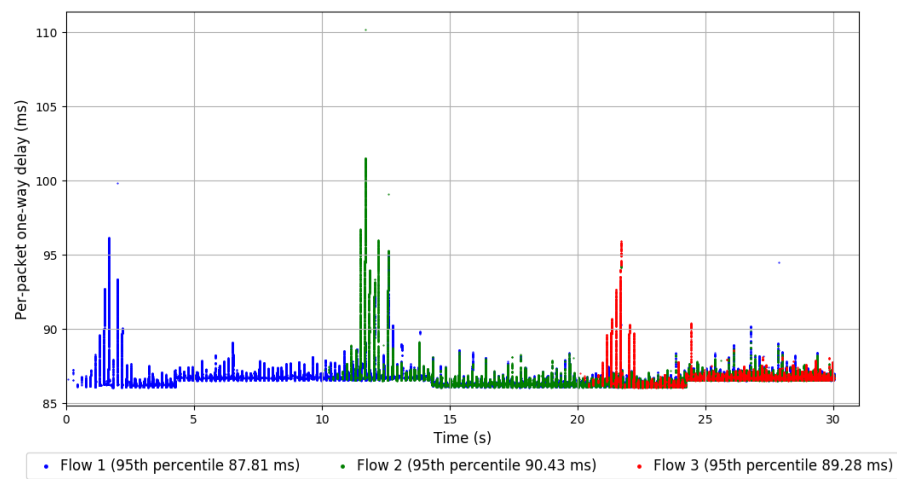
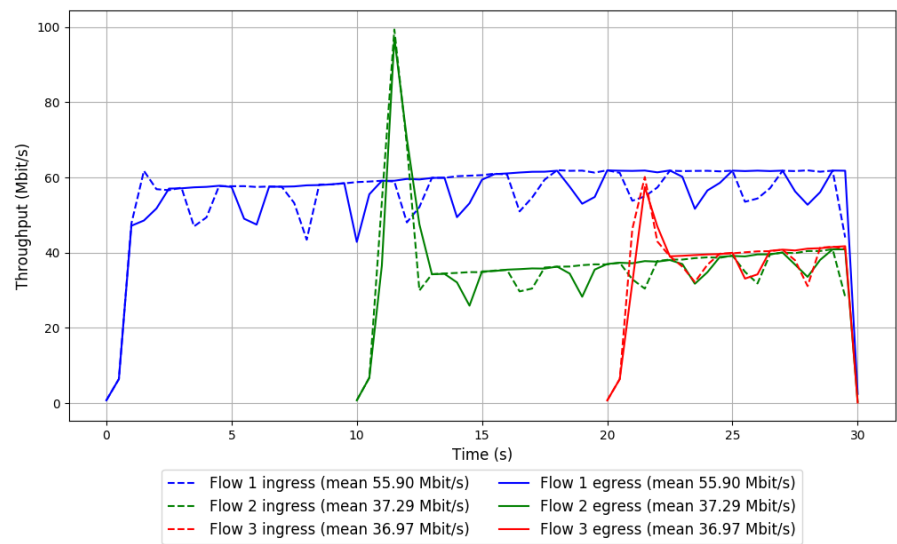
-- Flow 3:

Average throughput: 36.97 Mbit/s

95th percentile per-packet one-way delay: 89.285 ms

Loss rate: 0.00%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2017-11-21 16:24:00

End at: 2017-11-21 16:24:30

Below is generated by plot.py at 2017-11-21 19:08:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 116.04 Mbit/s

95th percentile per-packet one-way delay: 88.271 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 37.18 Mbit/s

95th percentile per-packet one-way delay: 87.926 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 98.04 Mbit/s

95th percentile per-packet one-way delay: 88.108 ms

Loss rate: 0.00%

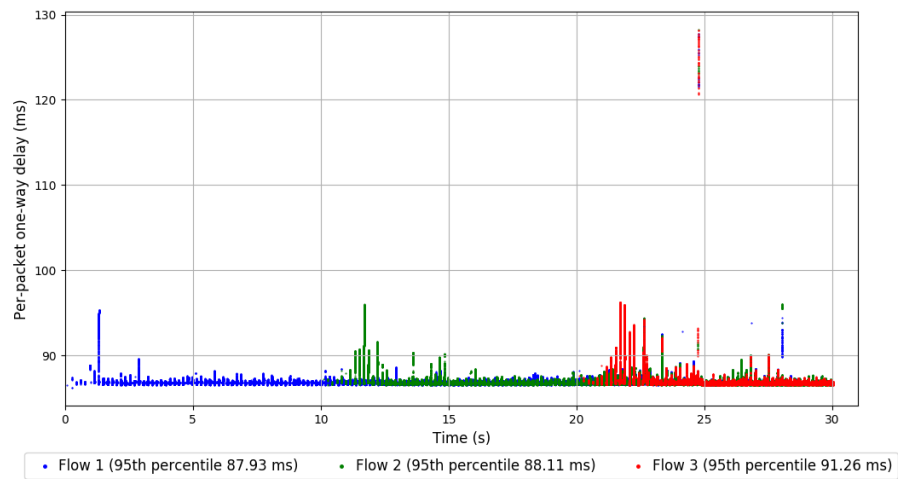
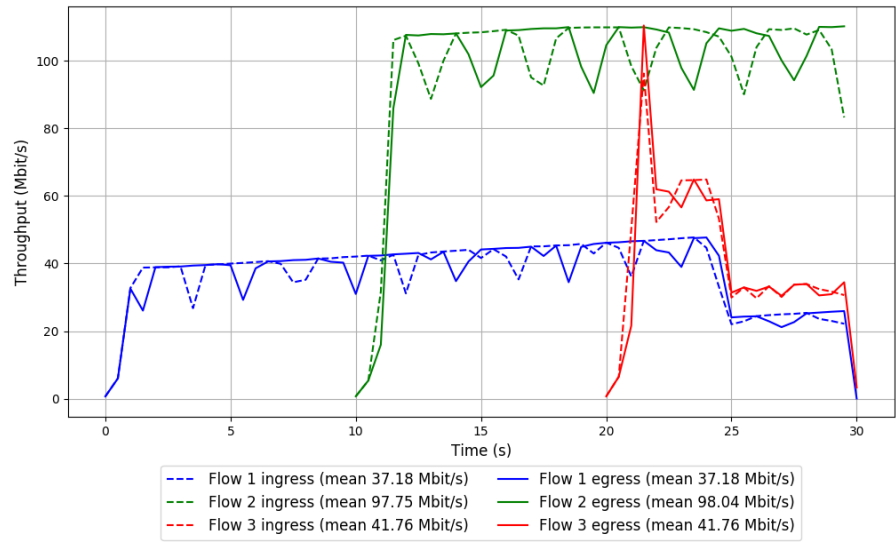
-- Flow 3:

Average throughput: 41.76 Mbit/s

95th percentile per-packet one-way delay: 91.257 ms

Loss rate: 0.00%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2017-11-21 16:37:08

End at: 2017-11-21 16:37:38

Below is generated by plot.py at 2017-11-21 19:08:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 67.72 Mbit/s

95th percentile per-packet one-way delay: 87.131 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 26.65 Mbit/s

95th percentile per-packet one-way delay: 87.190 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 43.37 Mbit/s

95th percentile per-packet one-way delay: 87.088 ms

Loss rate: 0.00%

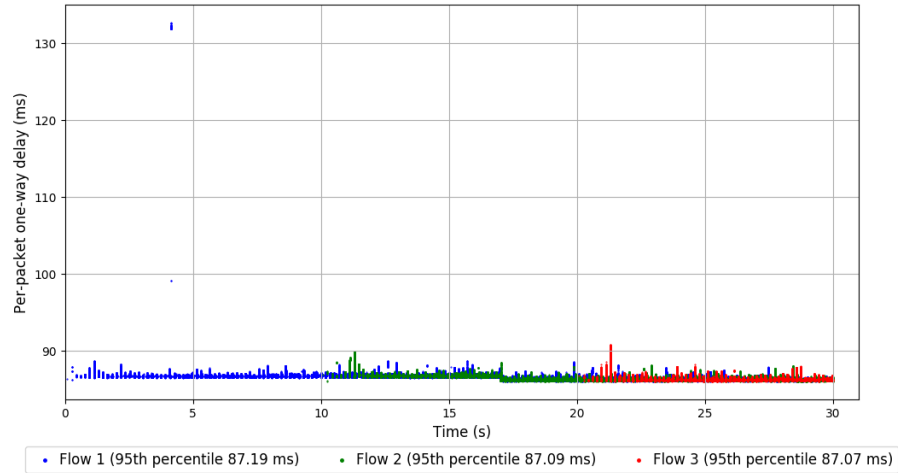
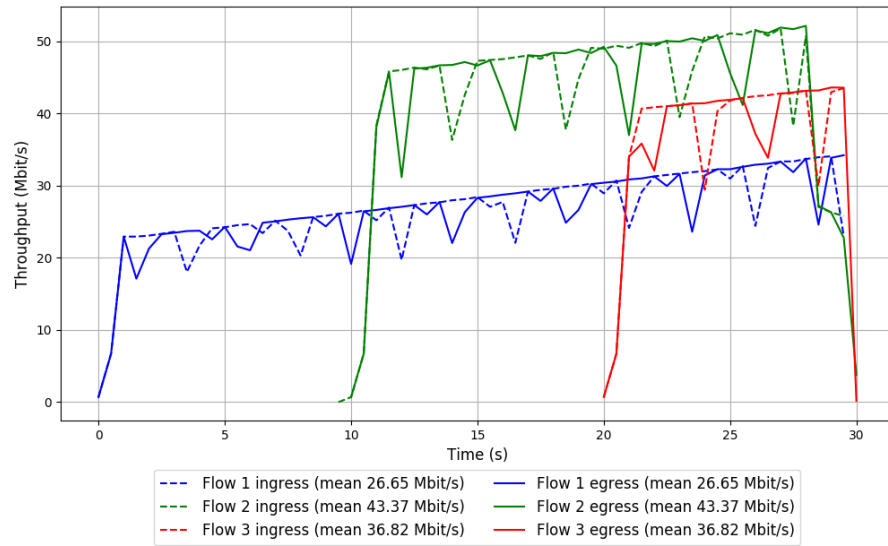
-- Flow 3:

Average throughput: 36.82 Mbit/s

95th percentile per-packet one-way delay: 87.071 ms

Loss rate: 0.00%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2017-11-21 16:50:13

End at: 2017-11-21 16:50:43

Below is generated by plot.py at 2017-11-21 19:08:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 42.07 Mbit/s

95th percentile per-packet one-way delay: 89.649 ms

Loss rate: 0.15%

-- Flow 1:

Average throughput: 24.64 Mbit/s

95th percentile per-packet one-way delay: 88.506 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 7.76 Mbit/s

95th percentile per-packet one-way delay: 87.562 ms

Loss rate: 1.23%

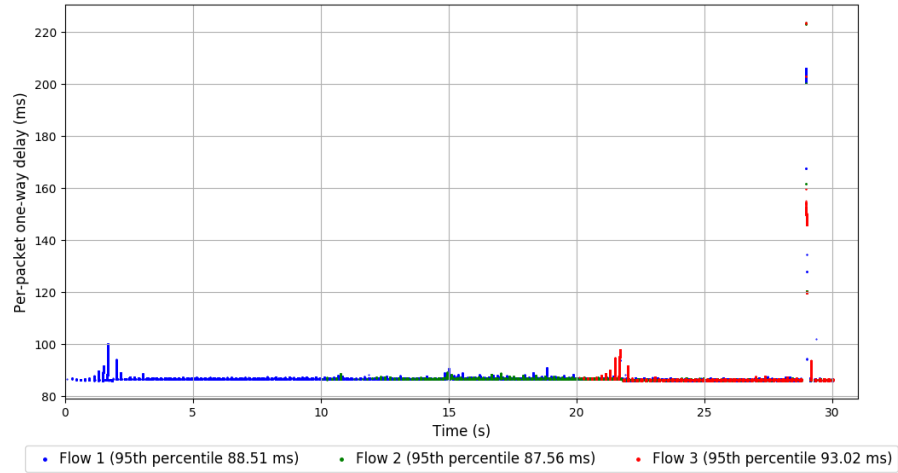
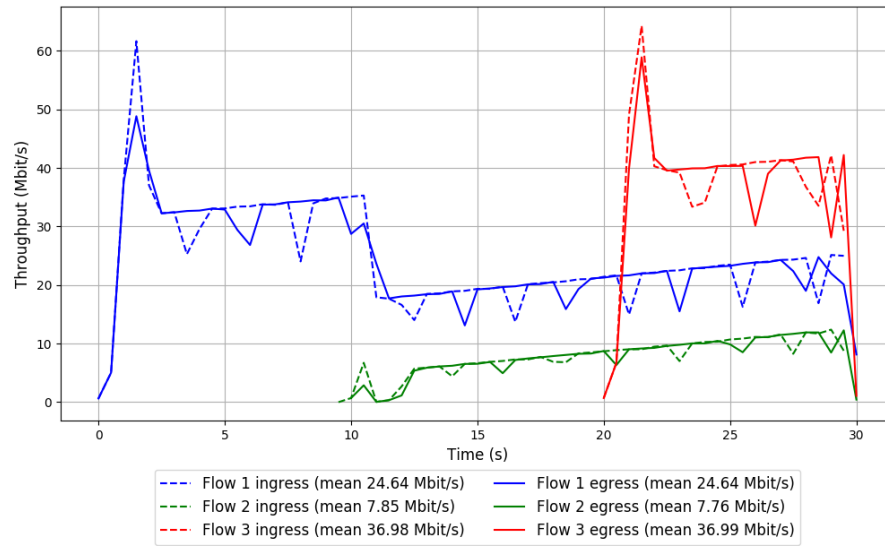
-- Flow 3:

Average throughput: 36.99 Mbit/s

95th percentile per-packet one-way delay: 93.018 ms

Loss rate: 0.00%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2017-11-21 17:03:16

End at: 2017-11-21 17:03:46

Below is generated by plot.py at 2017-11-21 19:08:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 109.14 Mbit/s

95th percentile per-packet one-way delay: 87.918 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 55.83 Mbit/s

95th percentile per-packet one-way delay: 87.980 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 55.31 Mbit/s

95th percentile per-packet one-way delay: 87.676 ms

Loss rate: 0.00%

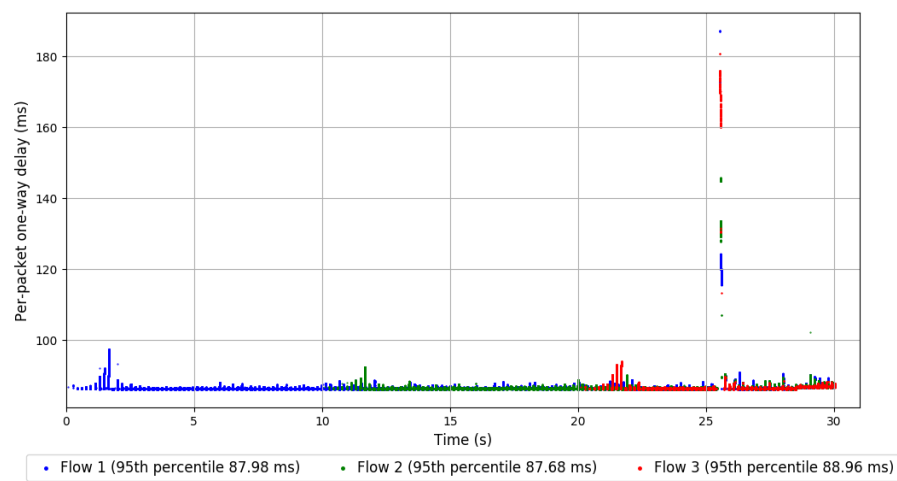
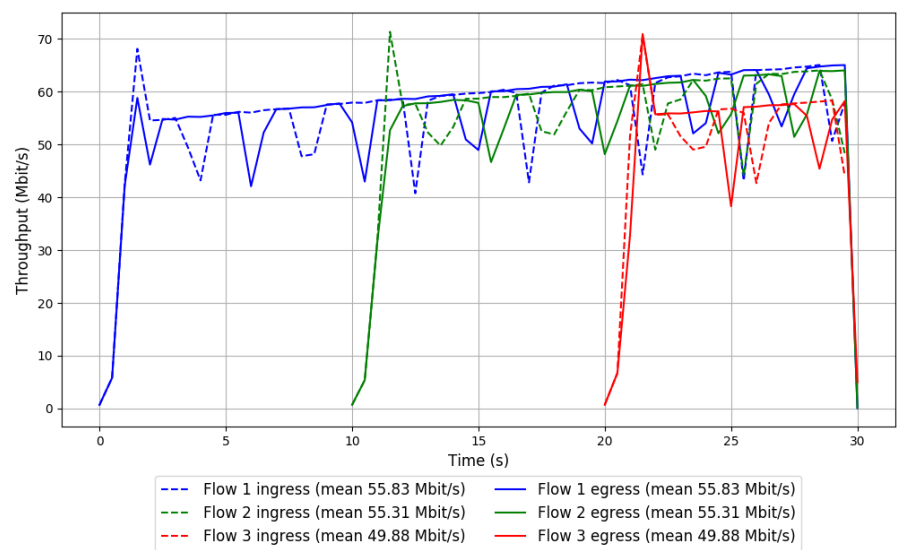
-- Flow 3:

Average throughput: 49.88 Mbit/s

95th percentile per-packet one-way delay: 88.959 ms

Loss rate: 0.00%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2017-11-21 14:59:36

End at: 2017-11-21 15:00:06

Below is generated by plot.py at 2017-11-21 19:08:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 281.15 Mbit/s

95th percentile per-packet one-way delay: 205.879 ms

Loss rate: 1.31%

-- Flow 1:

Average throughput: 196.73 Mbit/s

95th percentile per-packet one-way delay: 187.035 ms

Loss rate: 0.43%

-- Flow 2:

Average throughput: 82.76 Mbit/s

95th percentile per-packet one-way delay: 203.383 ms

Loss rate: 2.02%

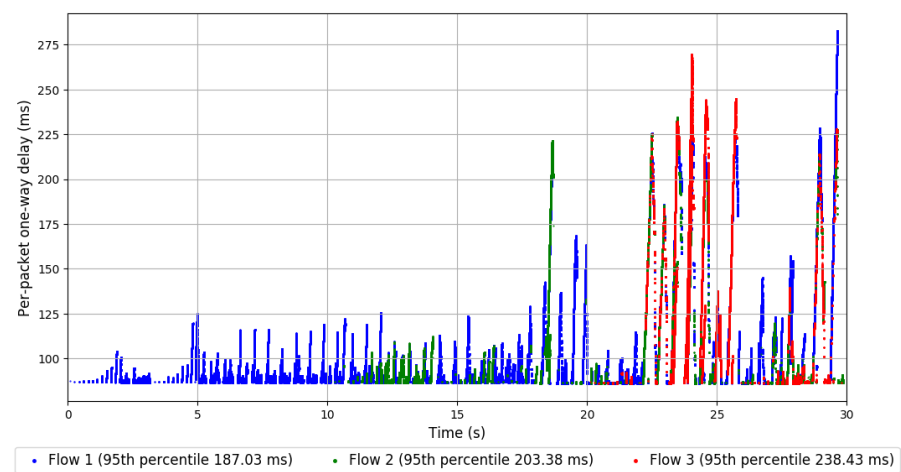
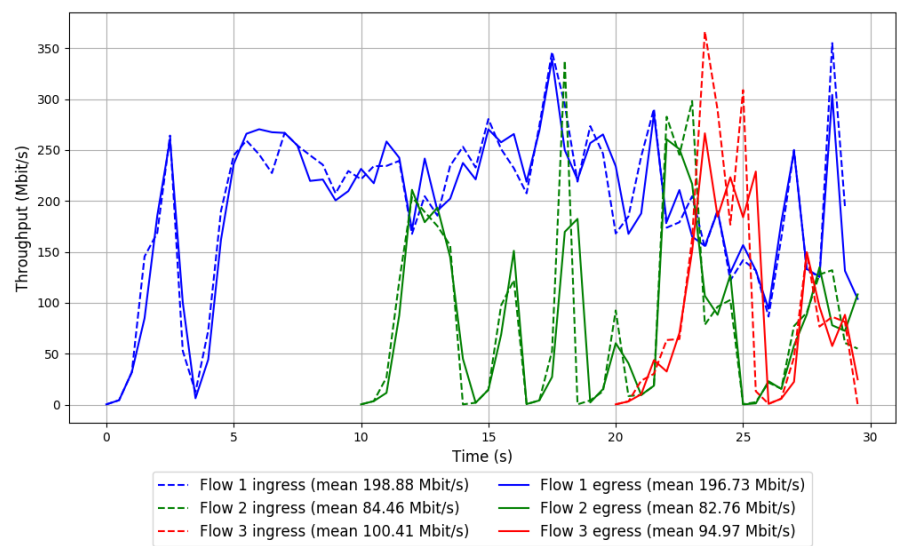
-- Flow 3:

Average throughput: 94.97 Mbit/s

95th percentile per-packet one-way delay: 238.431 ms

Loss rate: 5.42%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2017-11-21 15:12:46

End at: 2017-11-21 15:13:16

Below is generated by plot.py at 2017-11-21 19:08:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 262.20 Mbit/s

95th percentile per-packet one-way delay: 119.671 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 150.49 Mbit/s

95th percentile per-packet one-way delay: 112.521 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 129.95 Mbit/s

95th percentile per-packet one-way delay: 133.568 ms

Loss rate: 0.02%

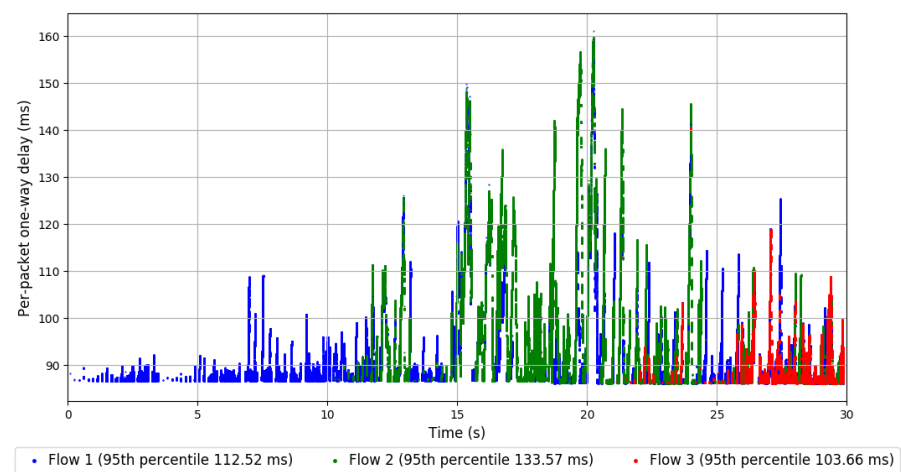
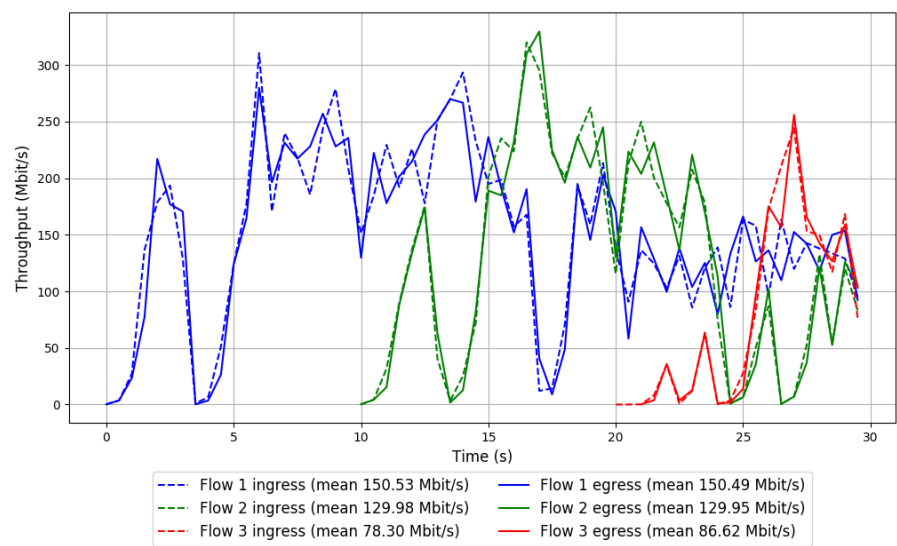
-- Flow 3:

Average throughput: 86.62 Mbit/s

95th percentile per-packet one-way delay: 103.662 ms

Loss rate: 0.69%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2017-11-21 15:26:13

End at: 2017-11-21 15:26:43

Below is generated by plot.py at 2017-11-21 19:08:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 287.97 Mbit/s

95th percentile per-packet one-way delay: 214.180 ms

Loss rate: 0.94%

-- Flow 1:

Average throughput: 225.99 Mbit/s

95th percentile per-packet one-way delay: 228.299 ms

Loss rate: 1.06%

-- Flow 2:

Average throughput: 54.62 Mbit/s

95th percentile per-packet one-way delay: 177.468 ms

Loss rate: 0.52%

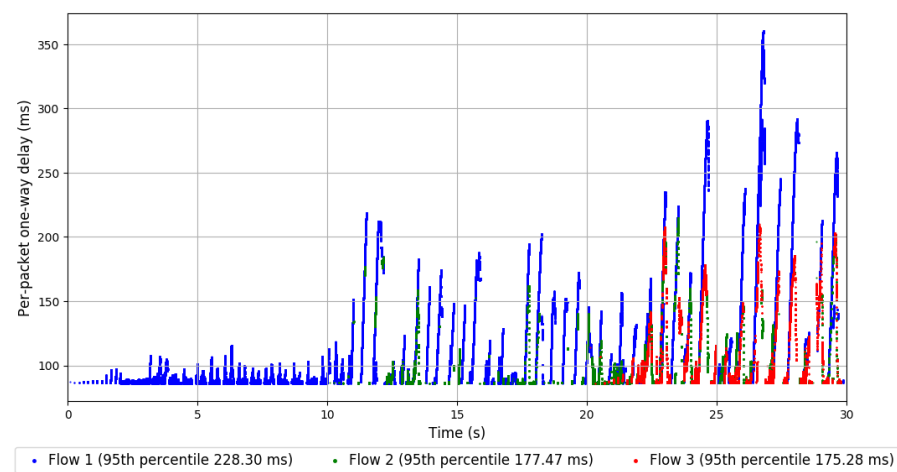
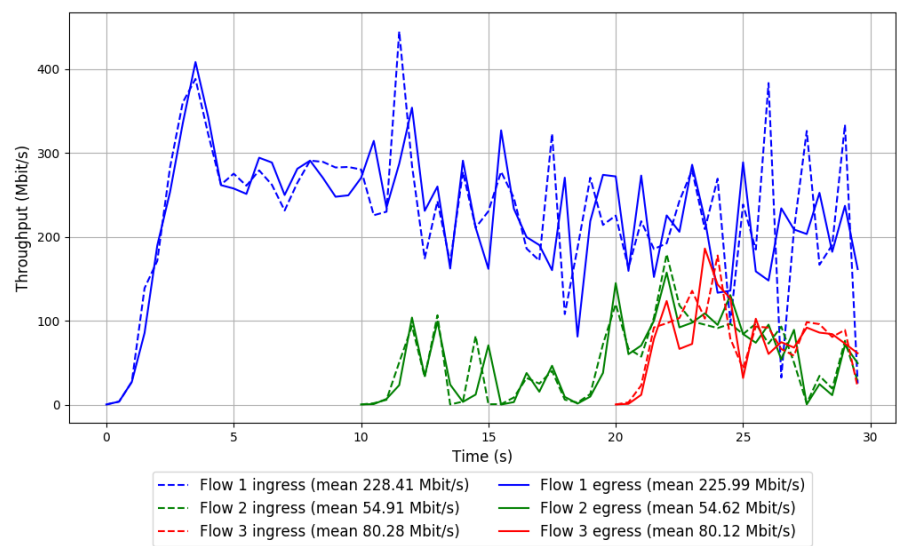
-- Flow 3:

Average throughput: 80.12 Mbit/s

95th percentile per-packet one-way delay: 175.283 ms

Loss rate: 0.48%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2017-11-21 15:39:18

End at: 2017-11-21 15:39:48

Below is generated by plot.py at 2017-11-21 19:08:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 238.06 Mbit/s

95th percentile per-packet one-way delay: 140.481 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 173.95 Mbit/s

95th percentile per-packet one-way delay: 141.752 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 75.76 Mbit/s

95th percentile per-packet one-way delay: 147.115 ms

Loss rate: 0.00%

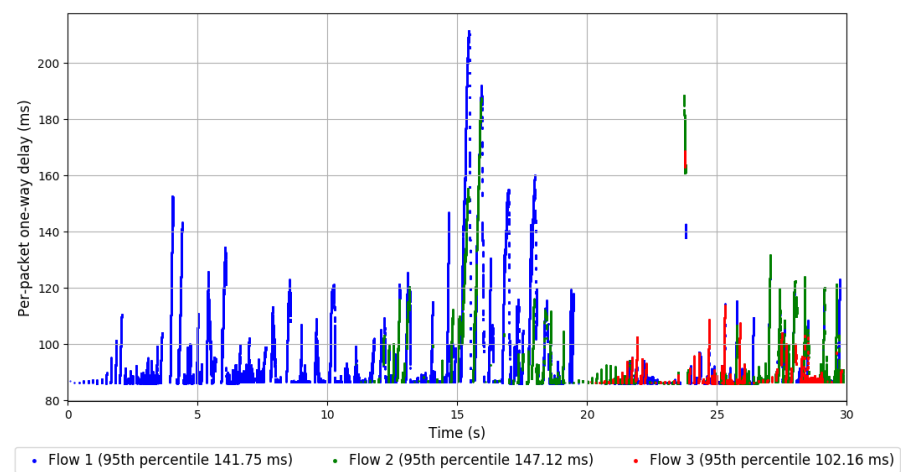
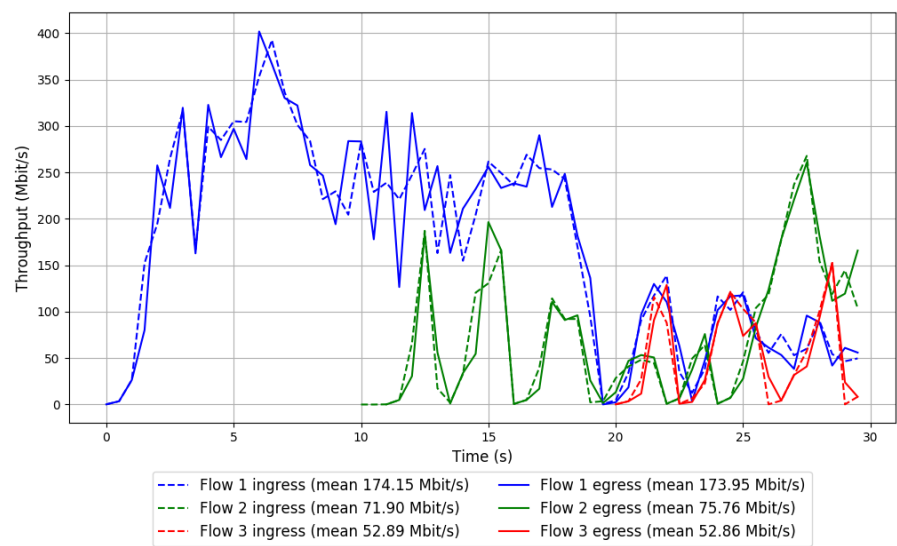
-- Flow 3:

Average throughput: 52.86 Mbit/s

95th percentile per-packet one-way delay: 102.156 ms

Loss rate: 0.00%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2017-11-21 15:52:22

End at: 2017-11-21 15:52:52

Below is generated by plot.py at 2017-11-21 19:09:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 283.04 Mbit/s

95th percentile per-packet one-way delay: 134.692 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 218.27 Mbit/s

95th percentile per-packet one-way delay: 122.672 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 58.37 Mbit/s

95th percentile per-packet one-way delay: 236.749 ms

Loss rate: 0.43%

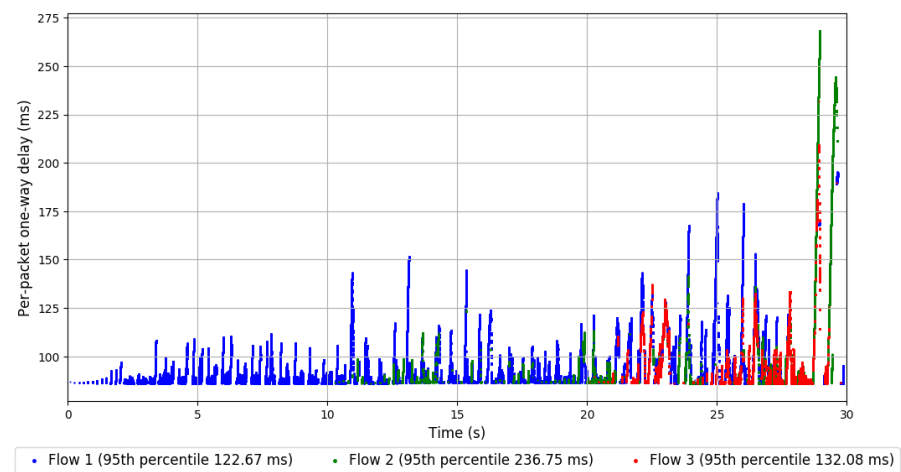
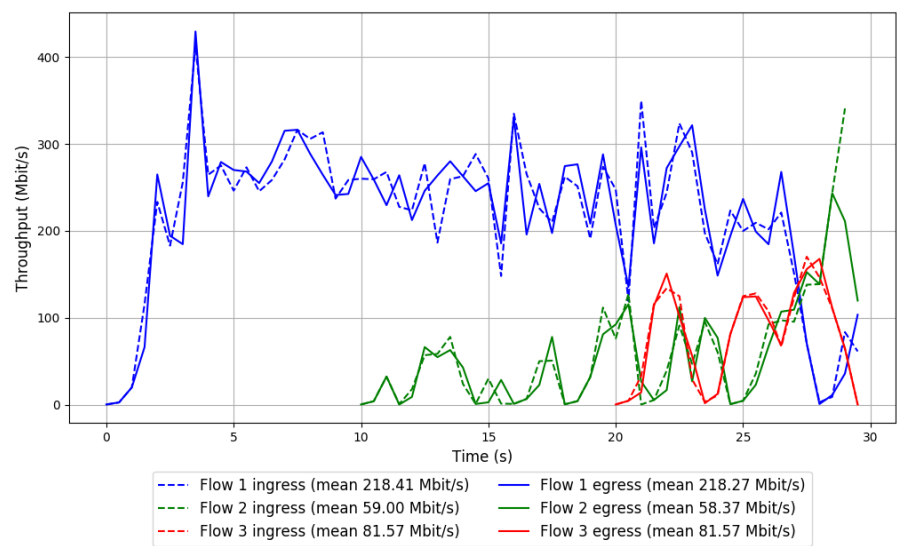
-- Flow 3:

Average throughput: 81.57 Mbit/s

95th percentile per-packet one-way delay: 132.081 ms

Loss rate: 0.01%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2017-11-21 16:05:21

End at: 2017-11-21 16:05:51

Below is generated by plot.py at 2017-11-21 19:10:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 301.85 Mbit/s

95th percentile per-packet one-way delay: 184.941 ms

Loss rate: 1.02%

-- Flow 1:

Average throughput: 195.88 Mbit/s

95th percentile per-packet one-way delay: 174.080 ms

Loss rate: 0.50%

-- Flow 2:

Average throughput: 121.48 Mbit/s

95th percentile per-packet one-way delay: 196.684 ms

Loss rate: 1.16%

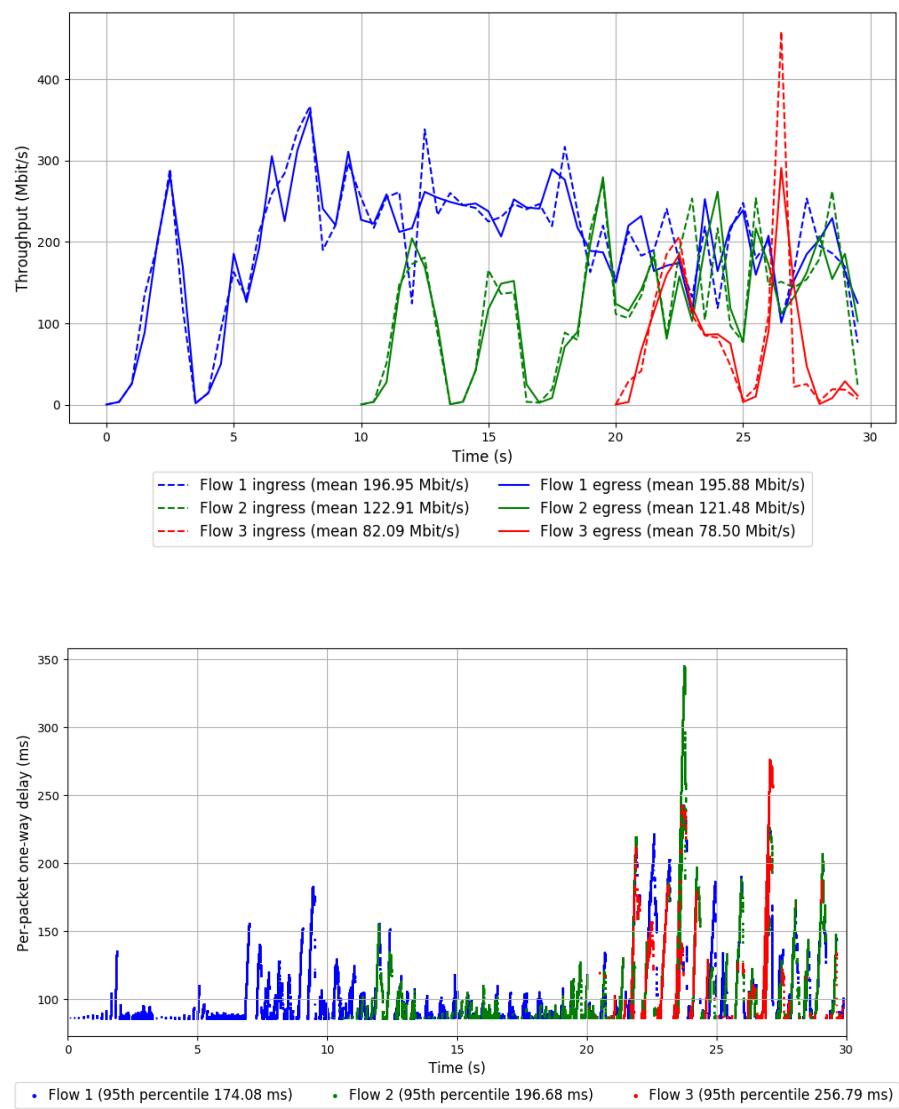
-- Flow 3:

Average throughput: 78.50 Mbit/s

95th percentile per-packet one-way delay: 256.789 ms

Loss rate: 4.47%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2017-11-21 16:18:32

End at: 2017-11-21 16:19:02

Below is generated by plot.py at 2017-11-21 19:13:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 325.64 Mbit/s

95th percentile per-packet one-way delay: 265.498 ms

Loss rate: 3.01%

-- Flow 1:

Average throughput: 273.53 Mbit/s

95th percentile per-packet one-way delay: 274.072 ms

Loss rate: 3.19%

-- Flow 2:

Average throughput: 36.82 Mbit/s

95th percentile per-packet one-way delay: 169.686 ms

Loss rate: 0.64%

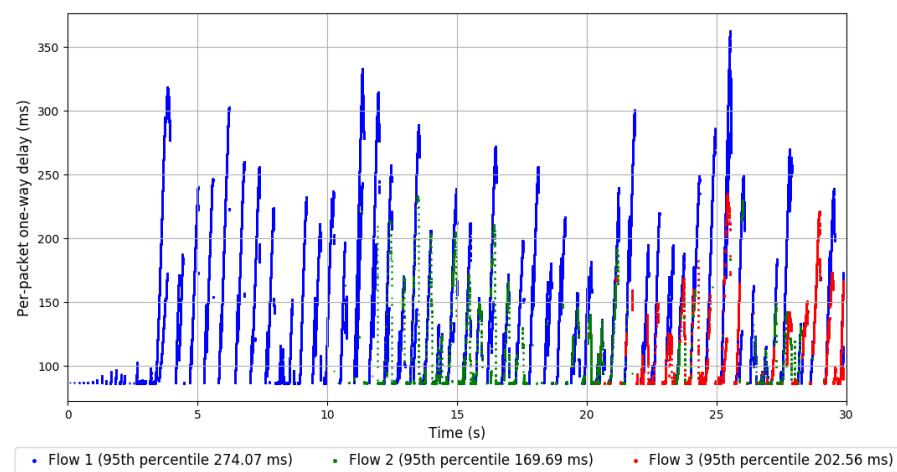
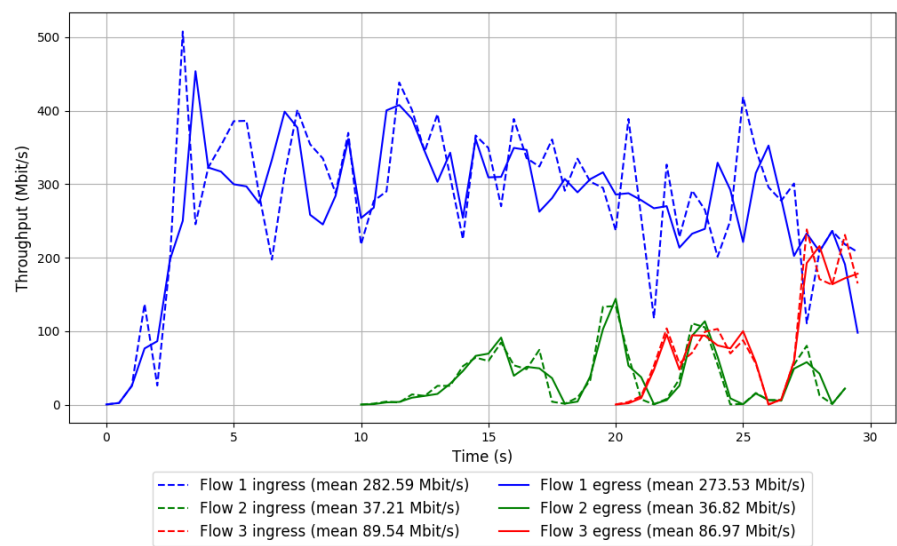
-- Flow 3:

Average throughput: 86.97 Mbit/s

95th percentile per-packet one-way delay: 202.558 ms

Loss rate: 3.17%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2017-11-21 16:31:45

End at: 2017-11-21 16:32:15

Below is generated by plot.py at 2017-11-21 19:13:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 198.67 Mbit/s

95th percentile per-packet one-way delay: 151.870 ms

Loss rate: 0.57%

-- Flow 1:

Average throughput: 87.94 Mbit/s

95th percentile per-packet one-way delay: 157.276 ms

Loss rate: 0.73%

-- Flow 2:

Average throughput: 146.24 Mbit/s

95th percentile per-packet one-way delay: 126.310 ms

Loss rate: 0.44%

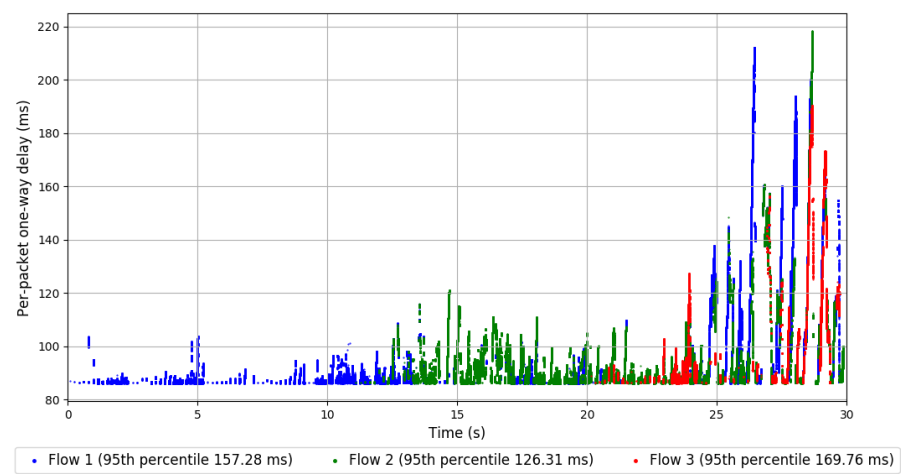
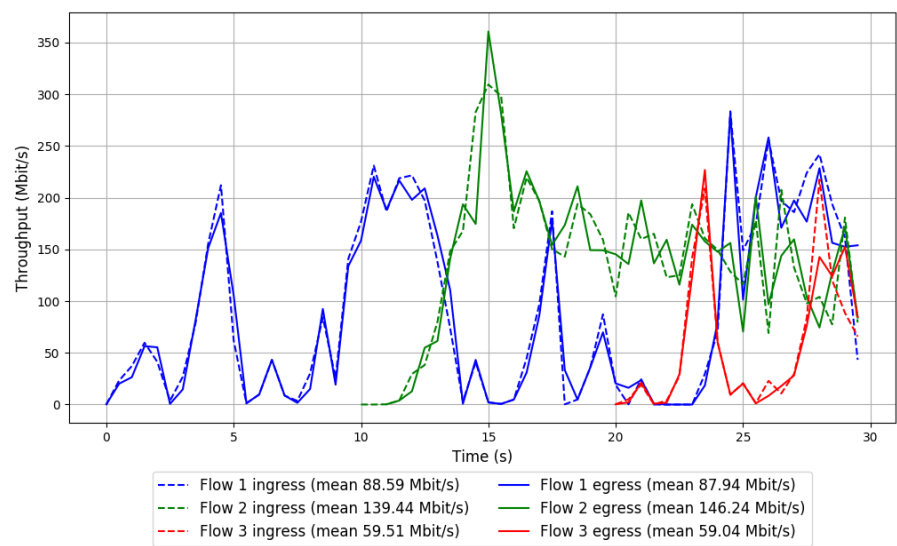
-- Flow 3:

Average throughput: 59.04 Mbit/s

95th percentile per-packet one-way delay: 169.761 ms

Loss rate: 0.47%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2017-11-21 16:44:42

End at: 2017-11-21 16:45:12

Below is generated by plot.py at 2017-11-21 19:13:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 296.96 Mbit/s

95th percentile per-packet one-way delay: 160.507 ms

Loss rate: 0.24%

-- Flow 1:

Average throughput: 218.00 Mbit/s

95th percentile per-packet one-way delay: 164.217 ms

Loss rate: 0.18%

-- Flow 2:

Average throughput: 100.51 Mbit/s

95th percentile per-packet one-way delay: 151.179 ms

Loss rate: 0.36%

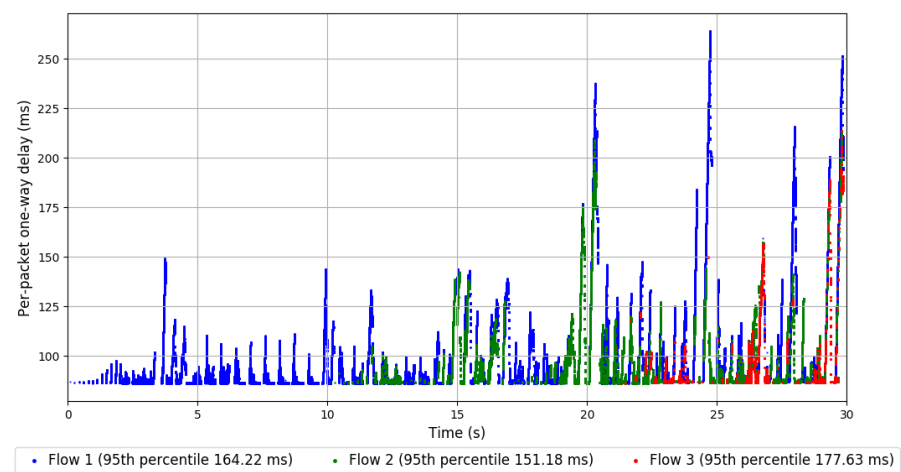
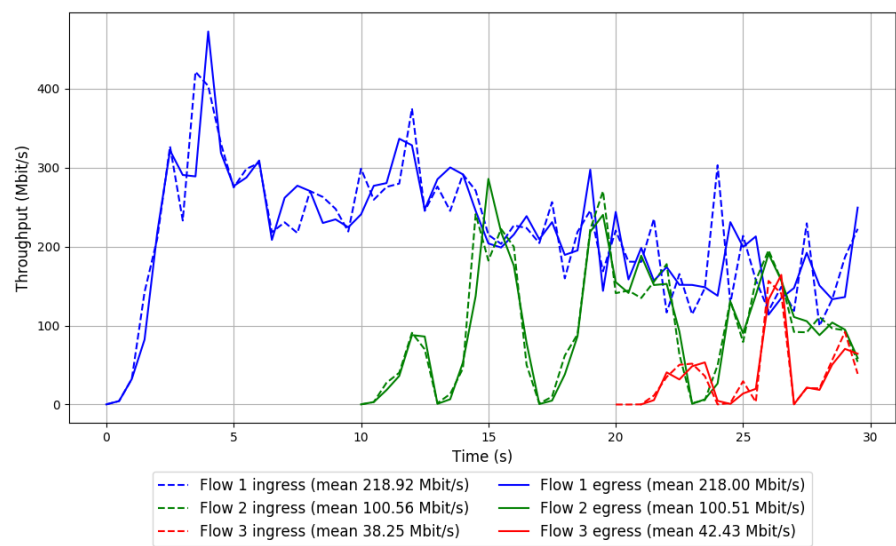
-- Flow 3:

Average throughput: 42.43 Mbit/s

95th percentile per-packet one-way delay: 177.626 ms

Loss rate: 0.49%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2017-11-21 16:57:51

End at: 2017-11-21 16:58:21

Below is generated by plot.py at 2017-11-21 19:13:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 298.29 Mbit/s

95th percentile per-packet one-way delay: 152.457 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 216.34 Mbit/s

95th percentile per-packet one-way delay: 157.488 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 92.53 Mbit/s

95th percentile per-packet one-way delay: 147.116 ms

Loss rate: 0.01%

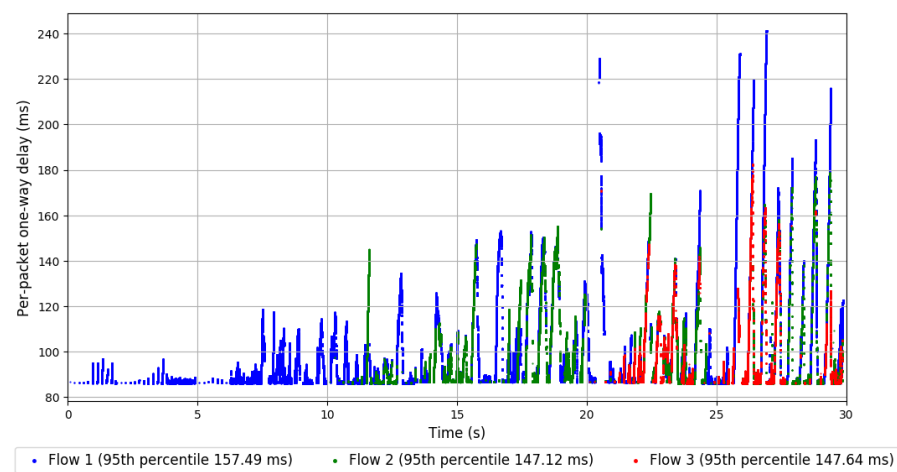
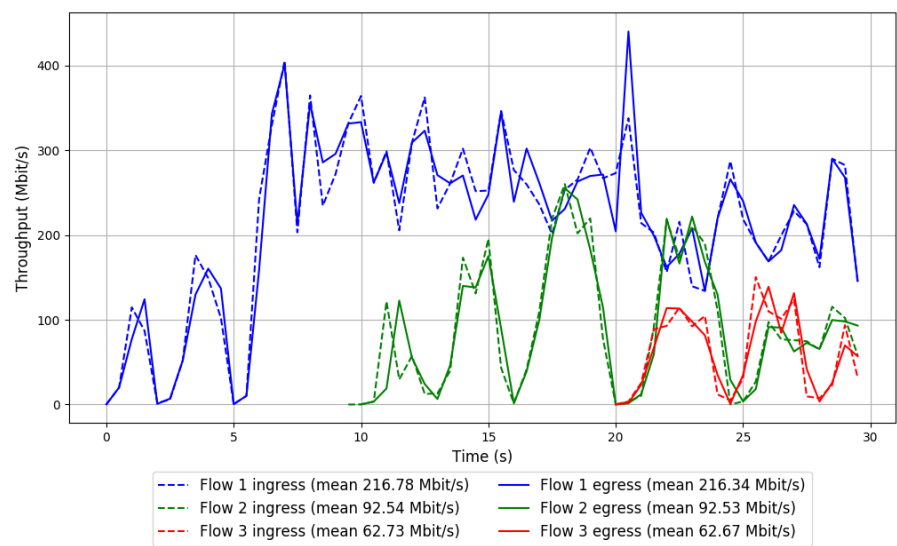
-- Flow 3:

Average throughput: 62.67 Mbit/s

95th percentile per-packet one-way delay: 147.643 ms

Loss rate: 0.00%

Run 10: Report of Verus — Data Link

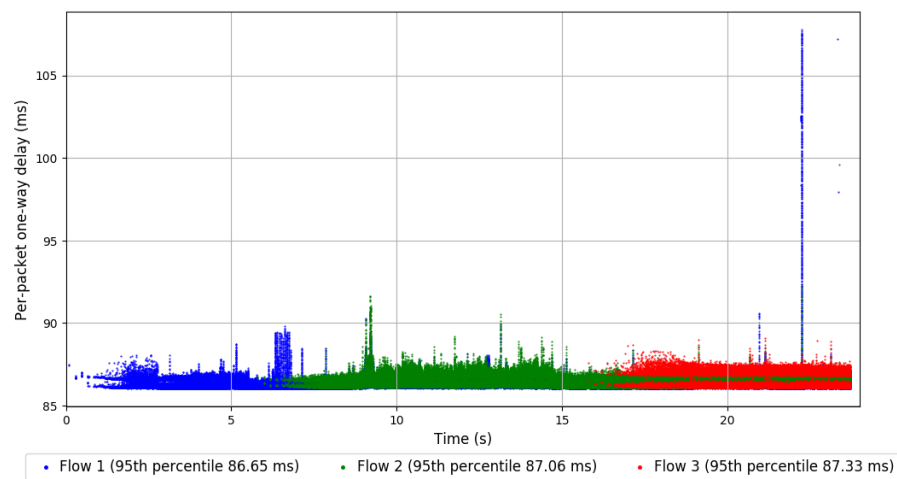
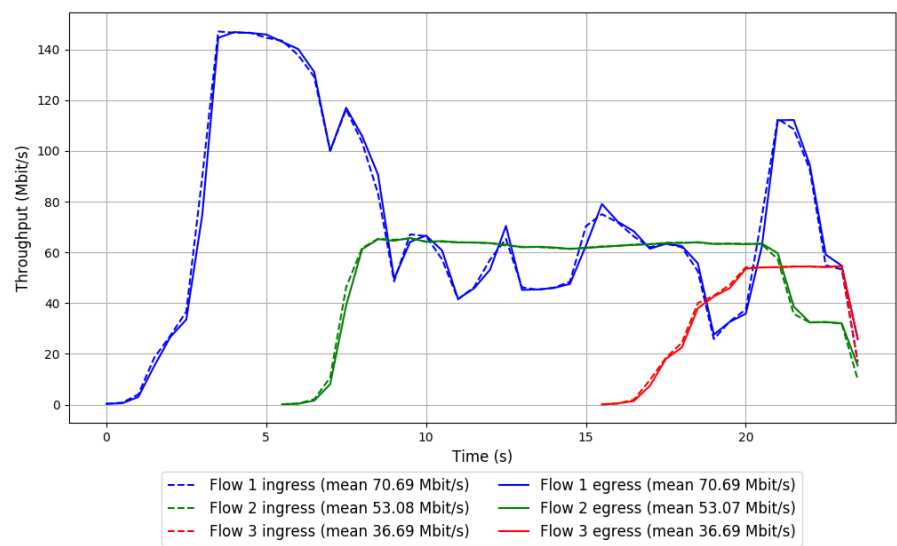


Run 1: Statistics of Copa

Start at: 2017-11-21 15:09:03

End at: 2017-11-21 15:09:33

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2017-11-21 15:22:12

End at: 2017-11-21 15:22:42

Below is generated by plot.py at 2017-11-21 19:13:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 124.36 Mbit/s

95th percentile per-packet one-way delay: 87.049 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 64.96 Mbit/s

95th percentile per-packet one-way delay: 87.144 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 68.47 Mbit/s

95th percentile per-packet one-way delay: 86.750 ms

Loss rate: 0.00%

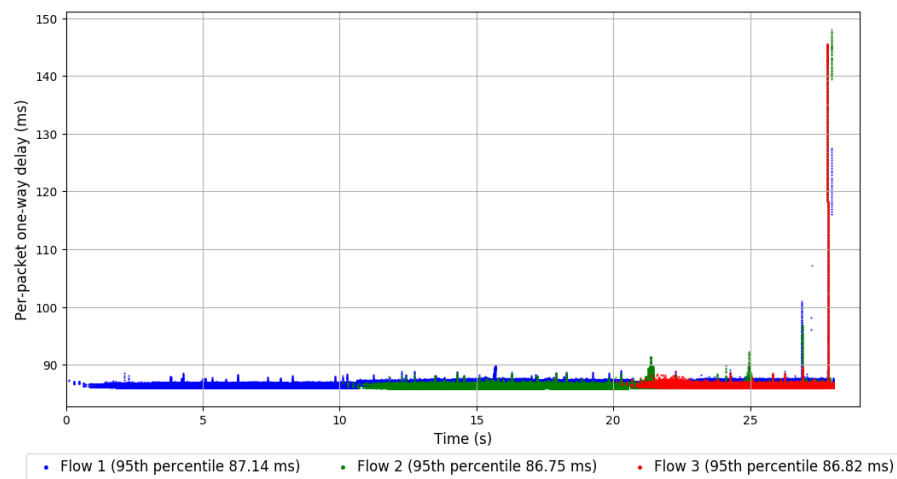
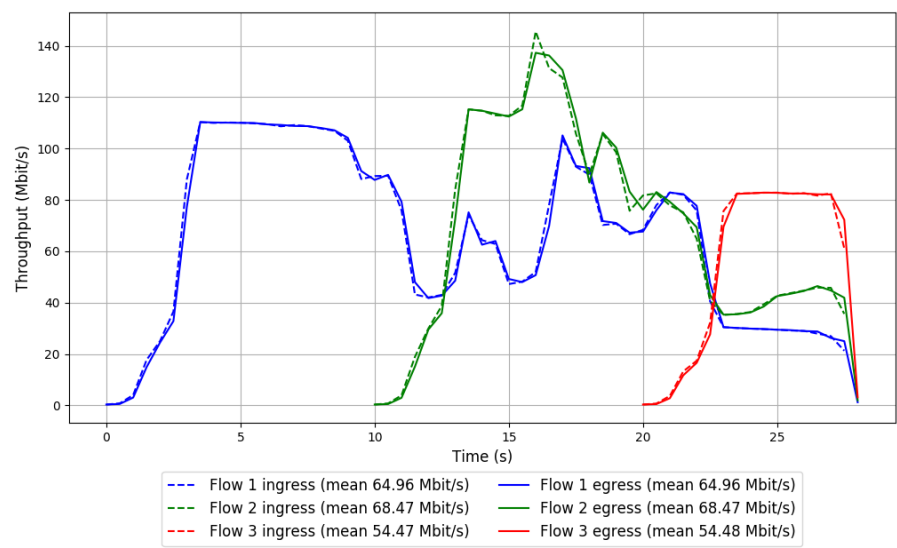
-- Flow 3:

Average throughput: 54.48 Mbit/s

95th percentile per-packet one-way delay: 86.818 ms

Loss rate: 0.00%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2017-11-21 15:35:37

End at: 2017-11-21 15:36:07

Below is generated by plot.py at 2017-11-21 19:13:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 110.66 Mbit/s

95th percentile per-packet one-way delay: 86.920 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 61.60 Mbit/s

95th percentile per-packet one-way delay: 86.827 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 50.51 Mbit/s

95th percentile per-packet one-way delay: 87.021 ms

Loss rate: 0.00%

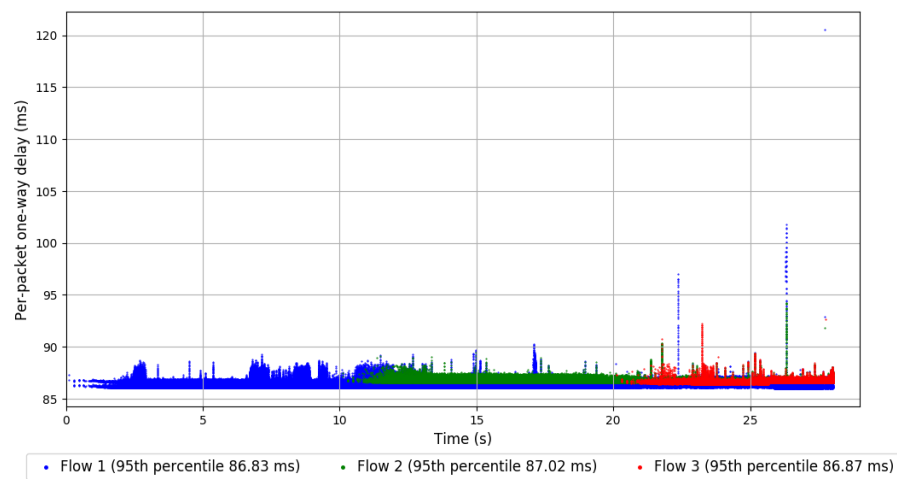
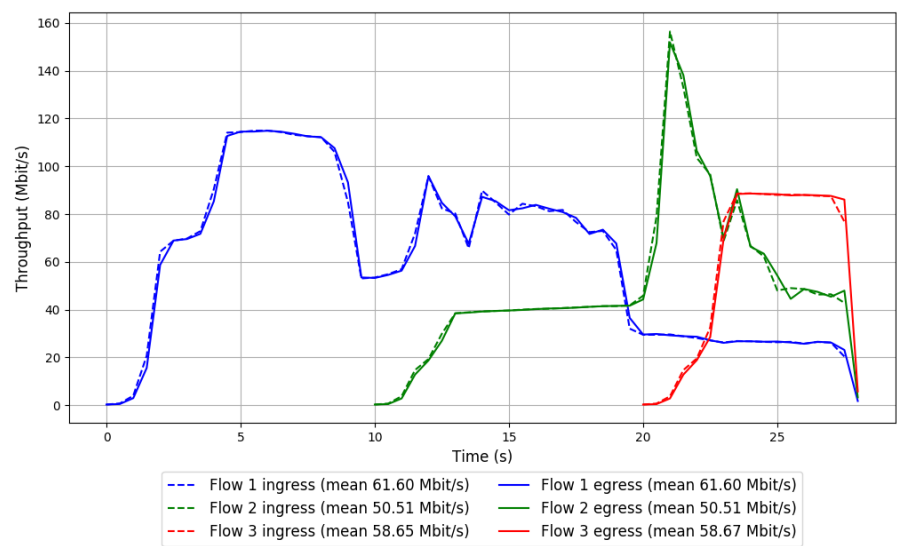
-- Flow 3:

Average throughput: 58.67 Mbit/s

95th percentile per-packet one-way delay: 86.866 ms

Loss rate: 0.00%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2017-11-21 15:48:40

End at: 2017-11-21 15:49:10

Below is generated by plot.py at 2017-11-21 19:14:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 116.86 Mbit/s

95th percentile per-packet one-way delay: 86.870 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 73.03 Mbit/s

95th percentile per-packet one-way delay: 86.796 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 48.21 Mbit/s

95th percentile per-packet one-way delay: 87.012 ms

Loss rate: 0.00%

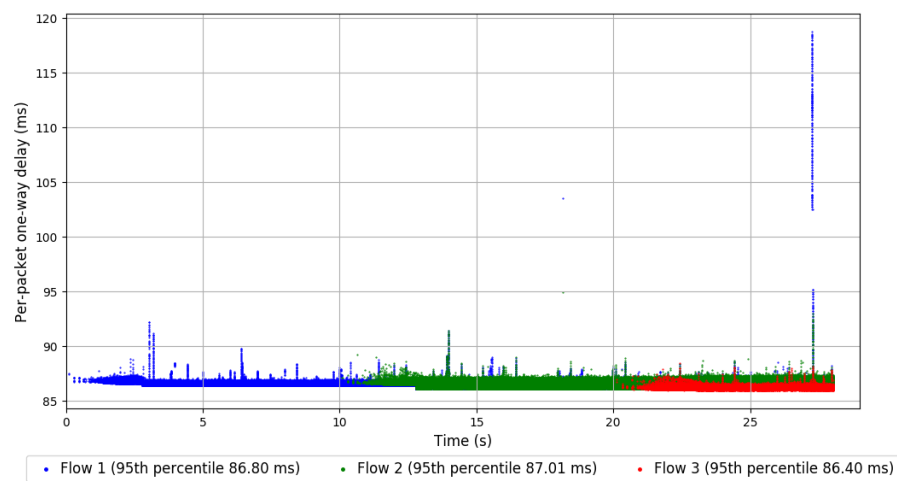
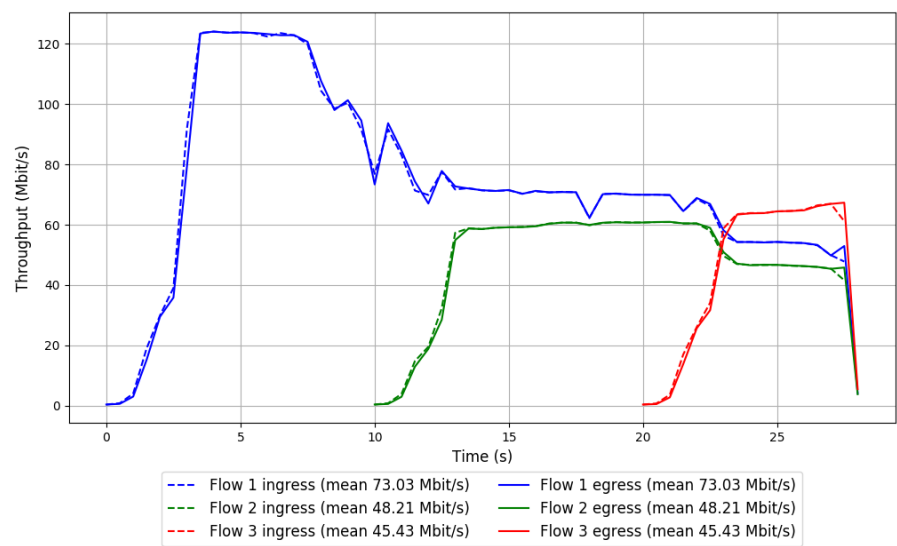
-- Flow 3:

Average throughput: 45.43 Mbit/s

95th percentile per-packet one-way delay: 86.402 ms

Loss rate: 0.01%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2017-11-21 16:01:46

End at: 2017-11-21 16:02:16

Below is generated by plot.py at 2017-11-21 19:14:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 53.21 Mbit/s

95th percentile per-packet one-way delay: 88.652 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 33.92 Mbit/s

95th percentile per-packet one-way delay: 88.177 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 24.63 Mbit/s

95th percentile per-packet one-way delay: 89.974 ms

Loss rate: 0.01%

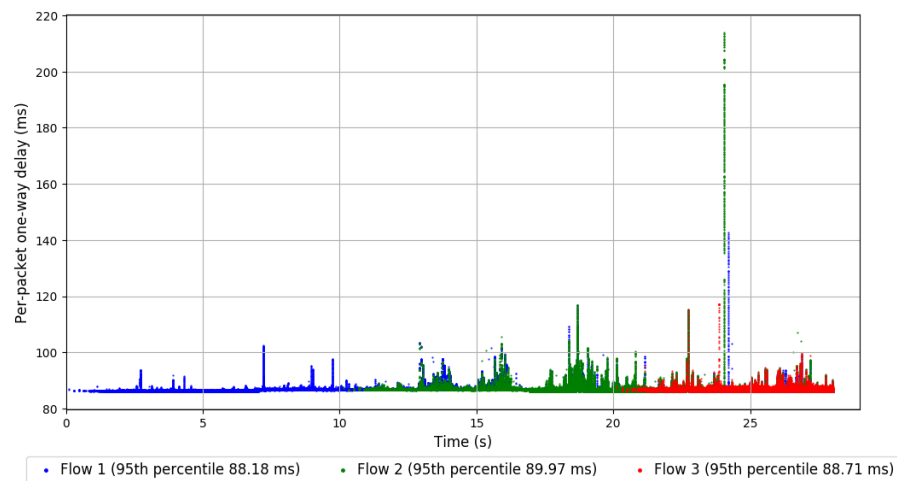
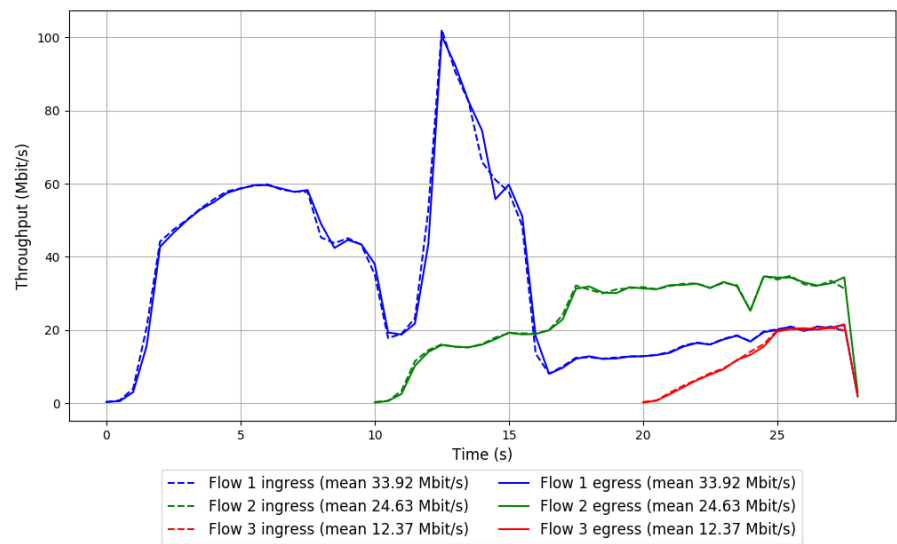
-- Flow 3:

Average throughput: 12.37 Mbit/s

95th percentile per-packet one-way delay: 88.709 ms

Loss rate: 0.01%

Run 5: Report of Copa — Data Link

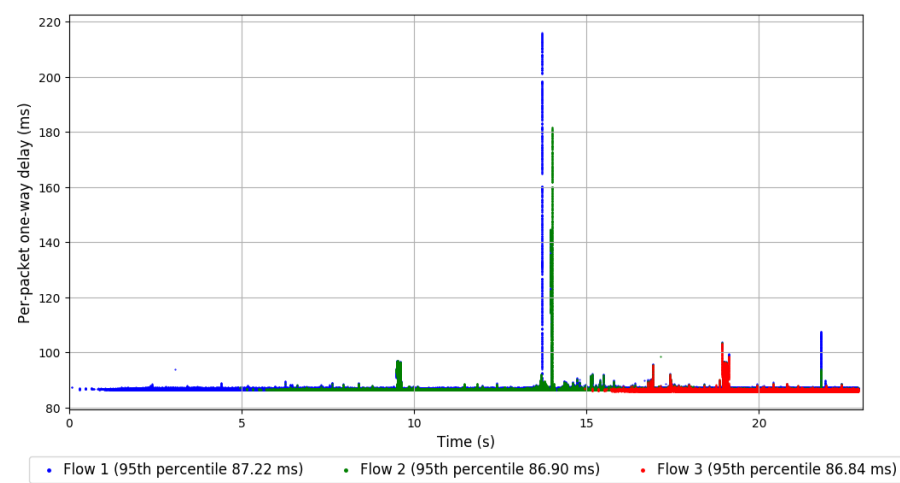
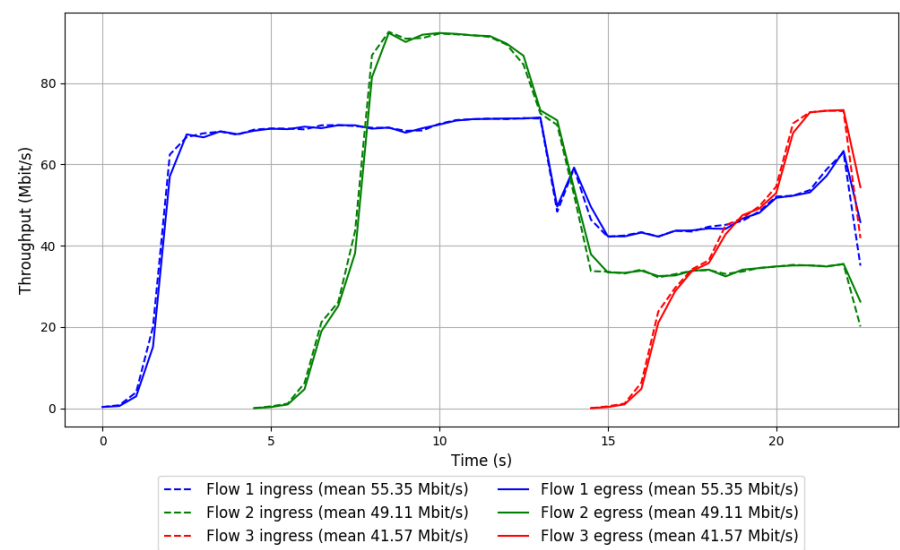


Run 6: Statistics of Copa

Start at: 2017-11-21 16:14:51

End at: 2017-11-21 16:15:21

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2017-11-21 16:28:02

End at: 2017-11-21 16:28:32

Below is generated by plot.py at 2017-11-21 19:16:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 111.10 Mbit/s

95th percentile per-packet one-way delay: 86.934 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 67.08 Mbit/s

95th percentile per-packet one-way delay: 86.945 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 54.03 Mbit/s

95th percentile per-packet one-way delay: 86.891 ms

Loss rate: 0.00%

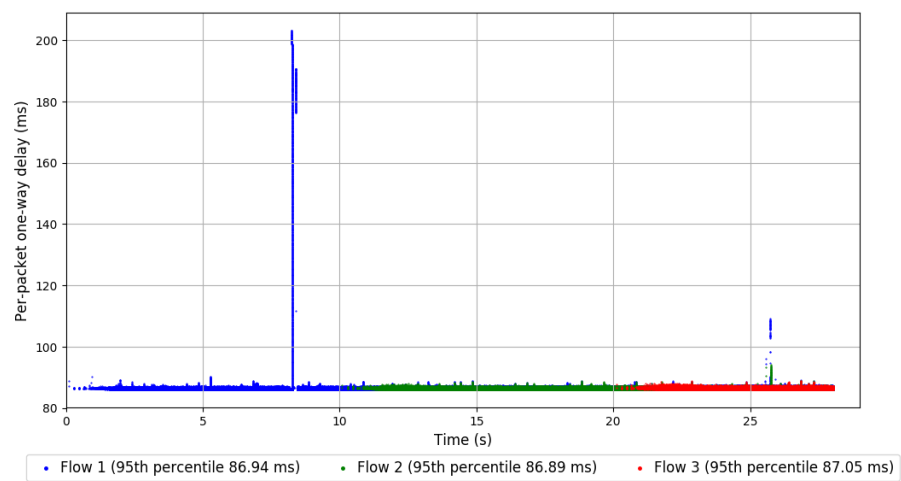
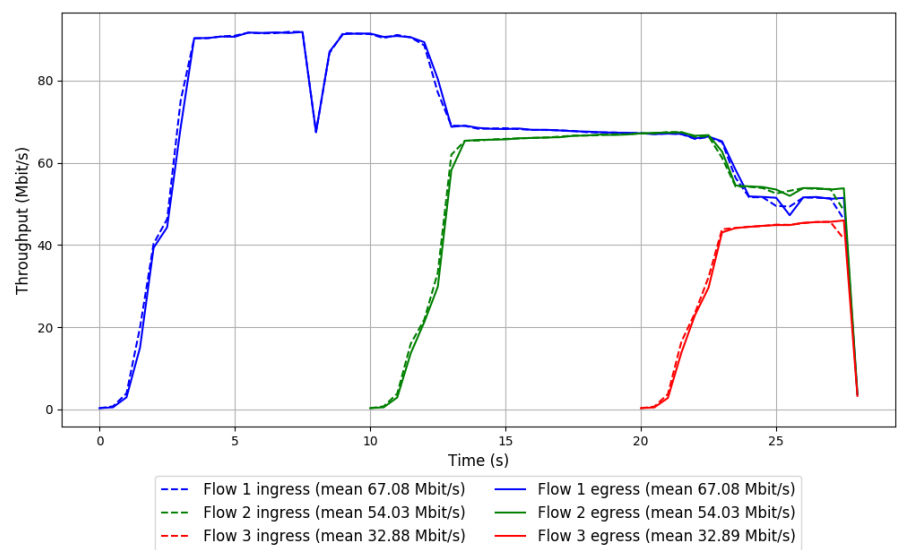
-- Flow 3:

Average throughput: 32.89 Mbit/s

95th percentile per-packet one-way delay: 87.052 ms

Loss rate: 0.00%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2017-11-21 16:41:03

End at: 2017-11-21 16:41:33

Below is generated by plot.py at 2017-11-21 19:16:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.02 Mbit/s

95th percentile per-packet one-way delay: 87.016 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 47.02 Mbit/s

95th percentile per-packet one-way delay: 86.919 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 61.99 Mbit/s

95th percentile per-packet one-way delay: 86.809 ms

Loss rate: 0.00%

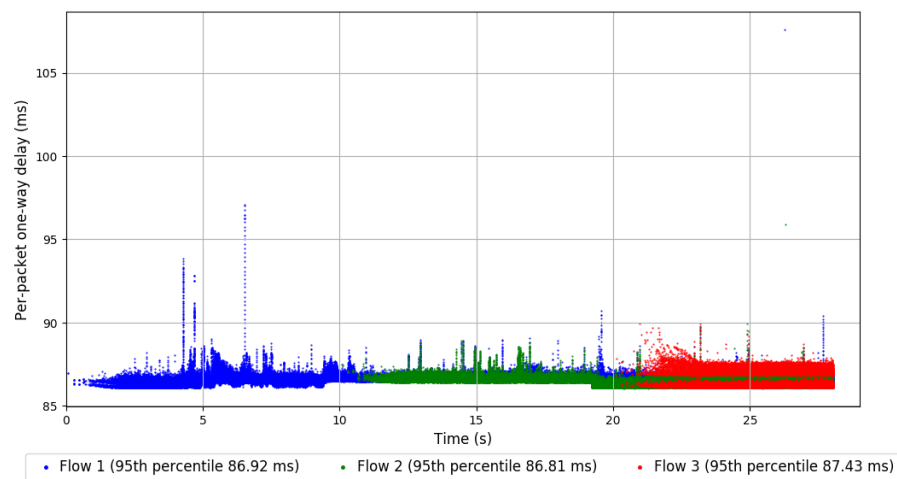
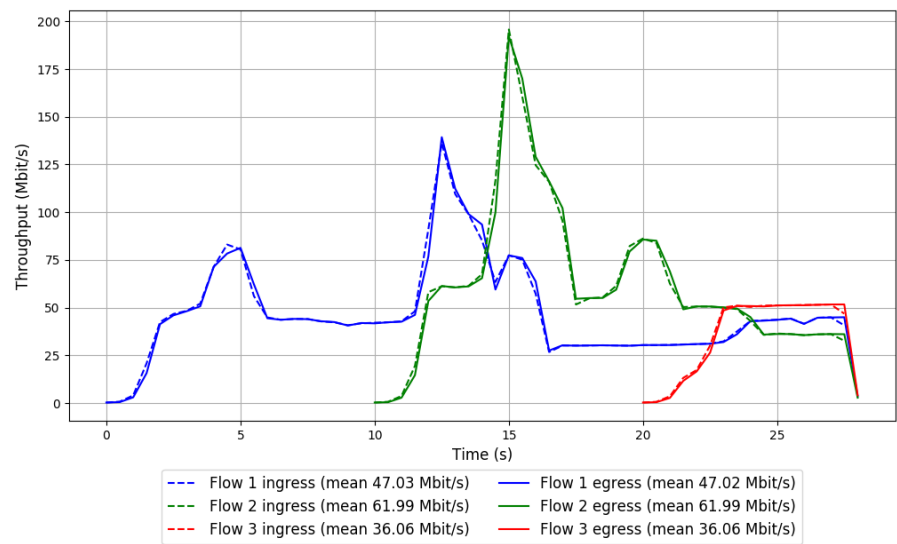
-- Flow 3:

Average throughput: 36.06 Mbit/s

95th percentile per-packet one-way delay: 87.431 ms

Loss rate: 0.00%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2017-11-21 16:54:08

End at: 2017-11-21 16:54:38

Below is generated by plot.py at 2017-11-21 19:16:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 116.51 Mbit/s

95th percentile per-packet one-way delay: 87.176 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 63.00 Mbit/s

95th percentile per-packet one-way delay: 87.242 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 71.58 Mbit/s

95th percentile per-packet one-way delay: 86.794 ms

Loss rate: 0.00%

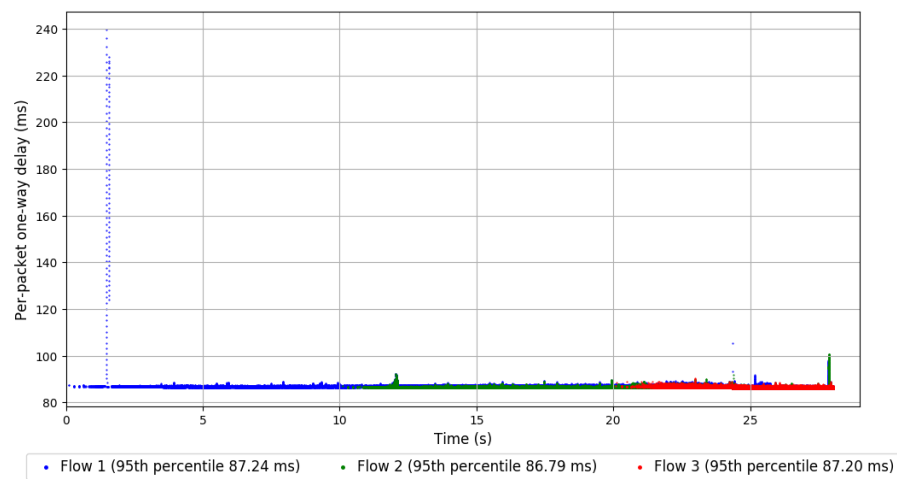
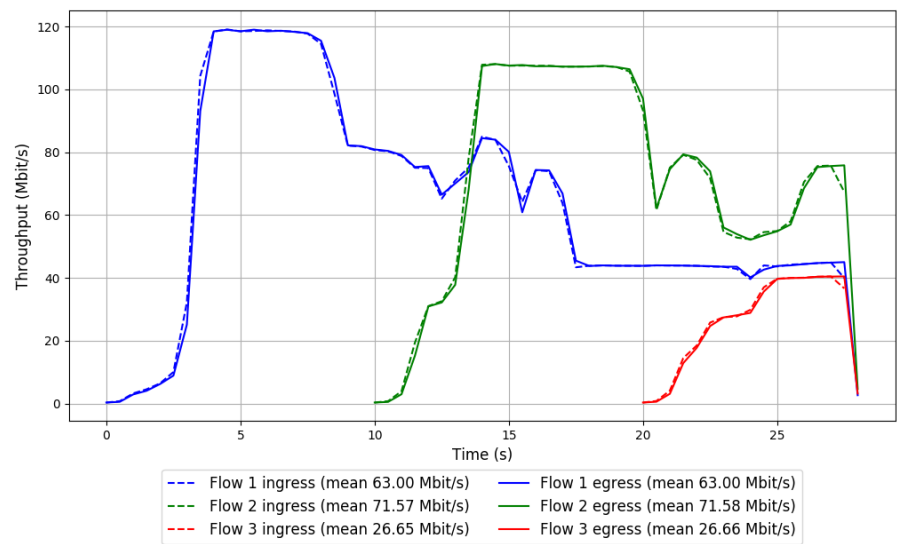
-- Flow 3:

Average throughput: 26.66 Mbit/s

95th percentile per-packet one-way delay: 87.201 ms

Loss rate: 0.00%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2017-11-21 17:07:12

End at: 2017-11-21 17:07:42

Below is generated by plot.py at 2017-11-21 19:16:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 101.43 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 54.06 Mbit/s

95th percentile per-packet one-way delay: 87.170 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 62.01 Mbit/s

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

Loss rate: 0.00%

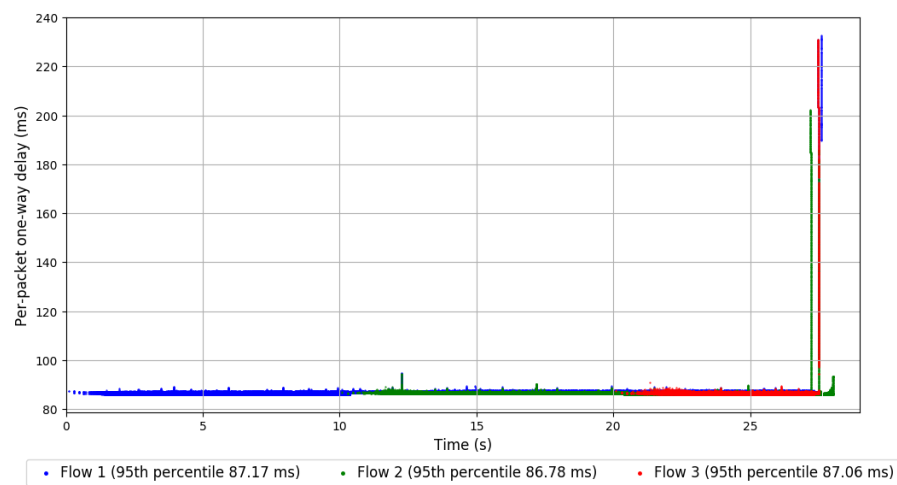
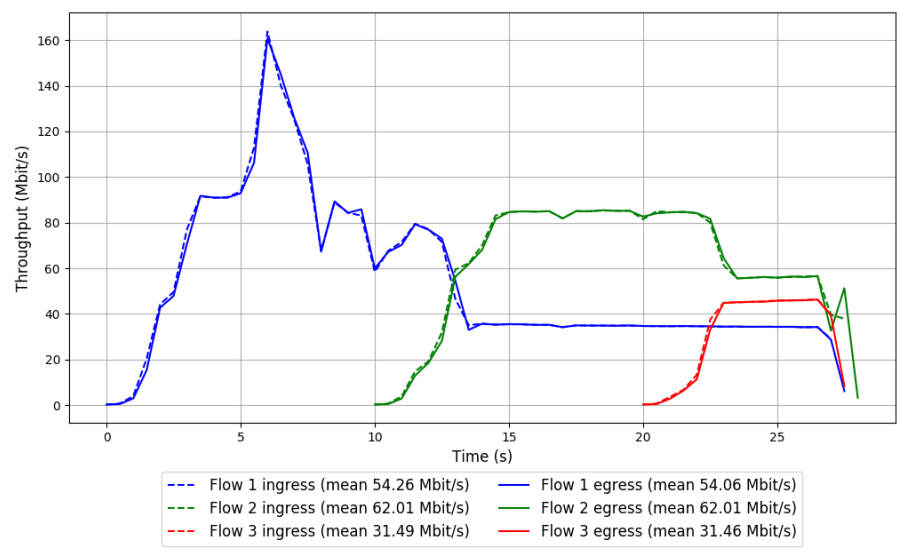
-- Flow 3:

Average throughput: 31.46 Mbit/s

95th percentile per-packet one-way delay: 87.061 ms

Loss rate: 0.00%

Run 10: Report of Copa — Data Link

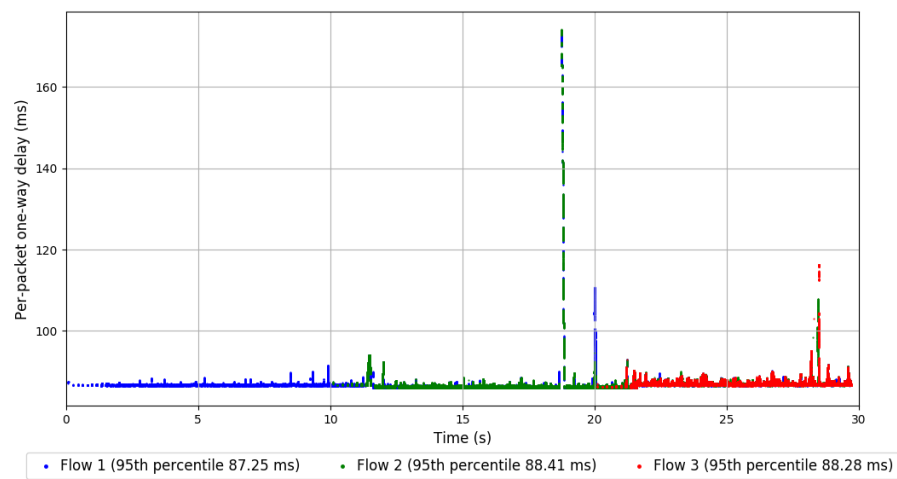
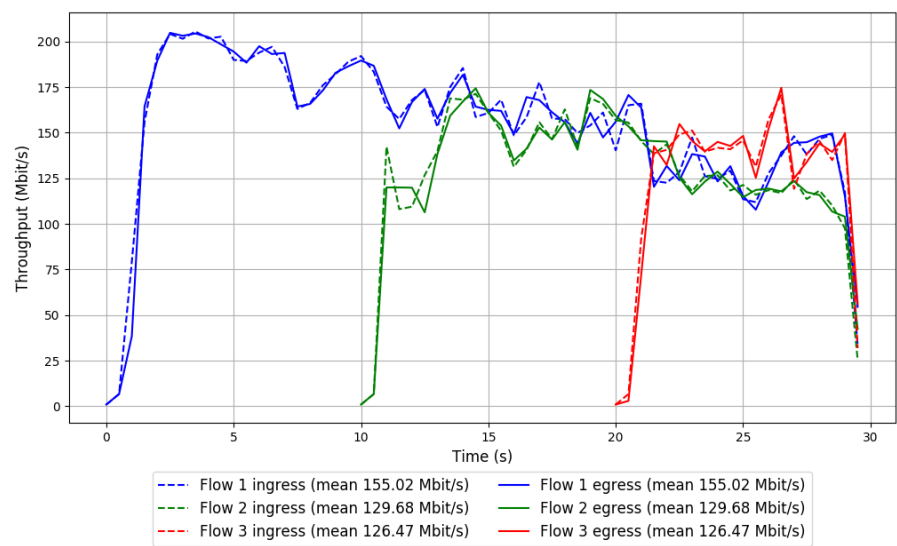


```
Run 1: Statistics of Indigo

Start at: 2017-11-21 15:05:53
End at: 2017-11-21 15:06:23

# Below is generated by plot.py at 2017-11-21 19:18:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 281.79 Mbit/s
95th percentile per-packet one-way delay: 87.797 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 155.02 Mbit/s
95th percentile per-packet one-way delay: 87.249 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 129.68 Mbit/s
95th percentile per-packet one-way delay: 88.406 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 126.47 Mbit/s
95th percentile per-packet one-way delay: 88.277 ms
Loss rate: 0.00%
```


Run 1: Report of Indigo — Data Link

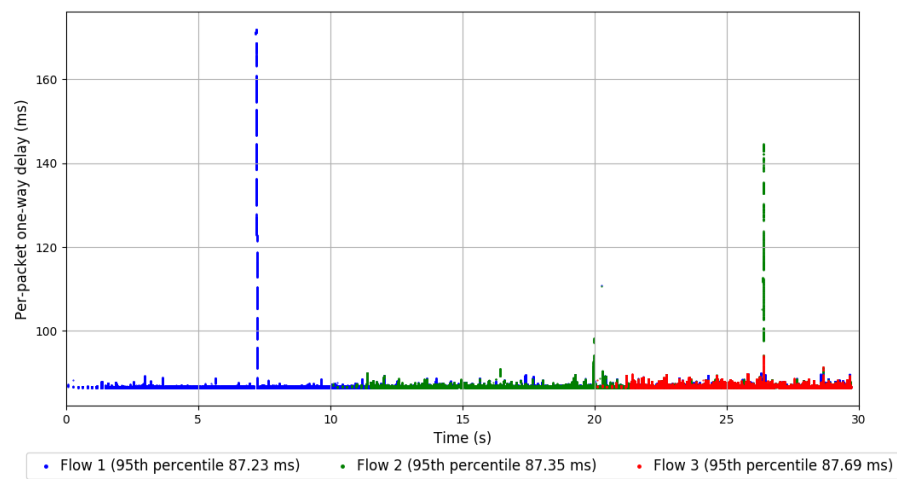
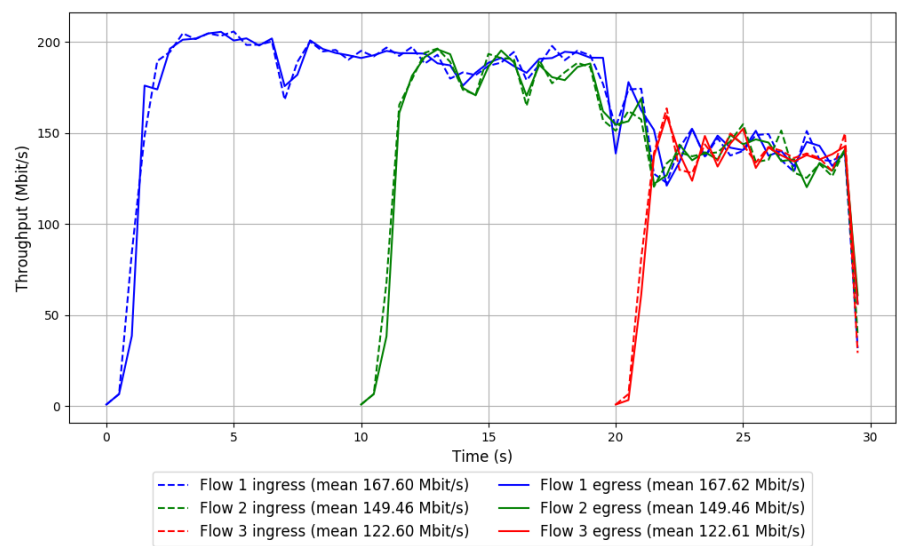


```
Run 2: Statistics of Indigo

Start at: 2017-11-21 15:19:04
End at: 2017-11-21 15:19:34

# Below is generated by plot.py at 2017-11-21 19:19:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 306.32 Mbit/s
95th percentile per-packet one-way delay: 87.352 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 167.62 Mbit/s
95th percentile per-packet one-way delay: 87.226 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 149.46 Mbit/s
95th percentile per-packet one-way delay: 87.352 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 122.61 Mbit/s
95th percentile per-packet one-way delay: 87.688 ms
Loss rate: 0.00%
```

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2017-11-21 15:32:29

End at: 2017-11-21 15:32:59

Below is generated by plot.py at 2017-11-21 19:19:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 284.45 Mbit/s

95th percentile per-packet one-way delay: 88.847 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 153.36 Mbit/s

95th percentile per-packet one-way delay: 88.256 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 140.49 Mbit/s

95th percentile per-packet one-way delay: 88.502 ms

Loss rate: 0.00%

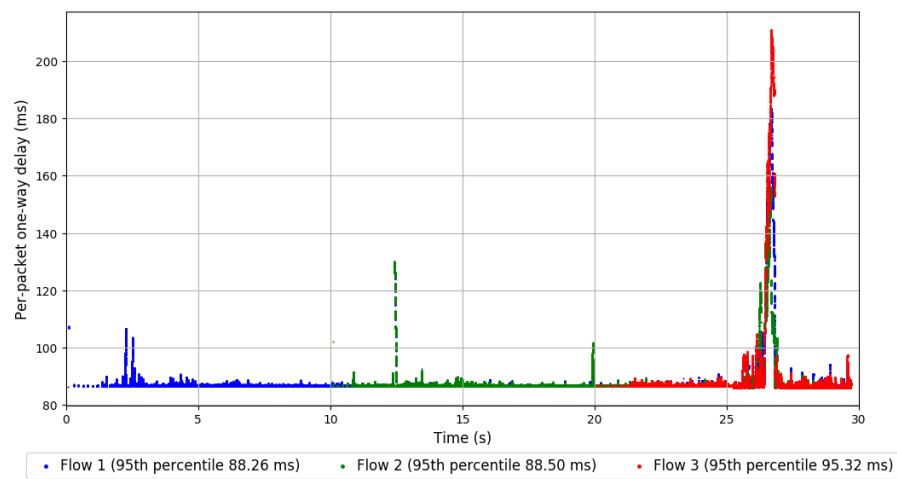
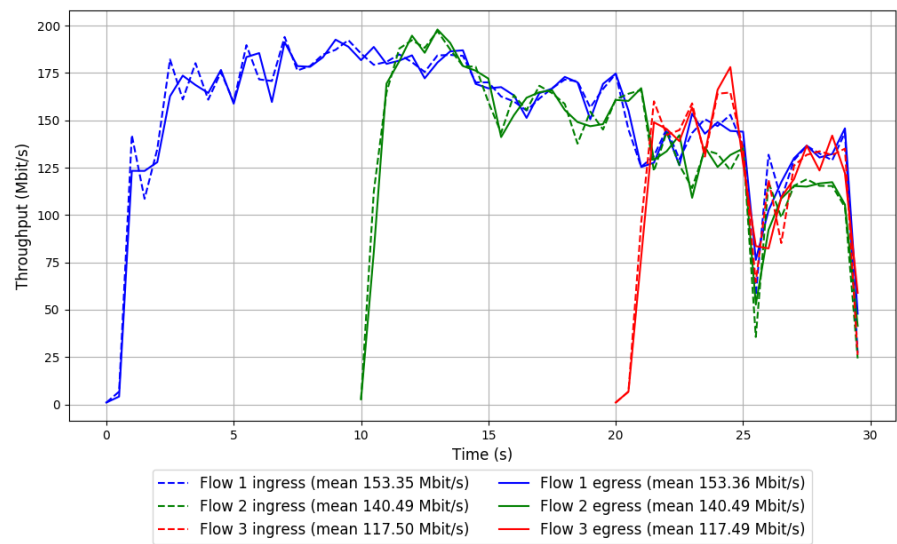
-- Flow 3:

Average throughput: 117.49 Mbit/s

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

Loss rate: 0.00%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2017-11-21 15:45:34

End at: 2017-11-21 15:46:04

Below is generated by plot.py at 2017-11-21 19:19:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 215.05 Mbit/s

95th percentile per-packet one-way delay: 88.035 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 124.81 Mbit/s

95th percentile per-packet one-way delay: 87.569 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 90.08 Mbit/s

95th percentile per-packet one-way delay: 88.245 ms

Loss rate: 0.00%

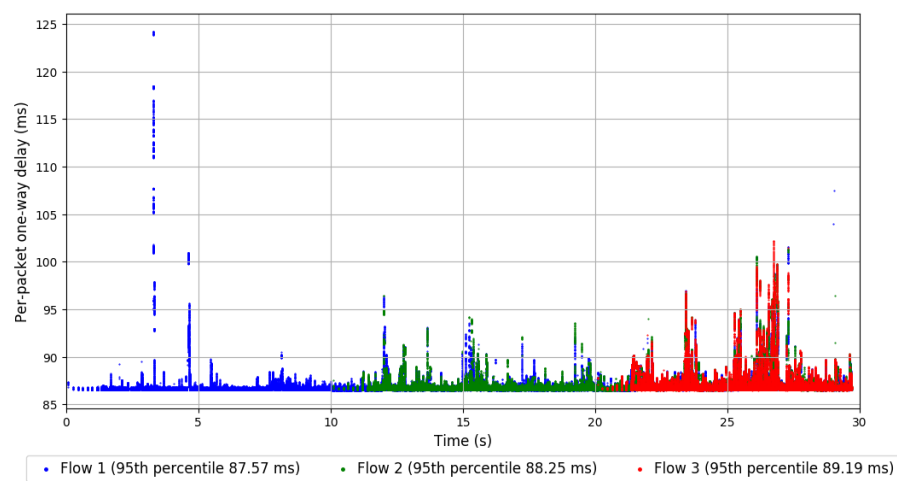
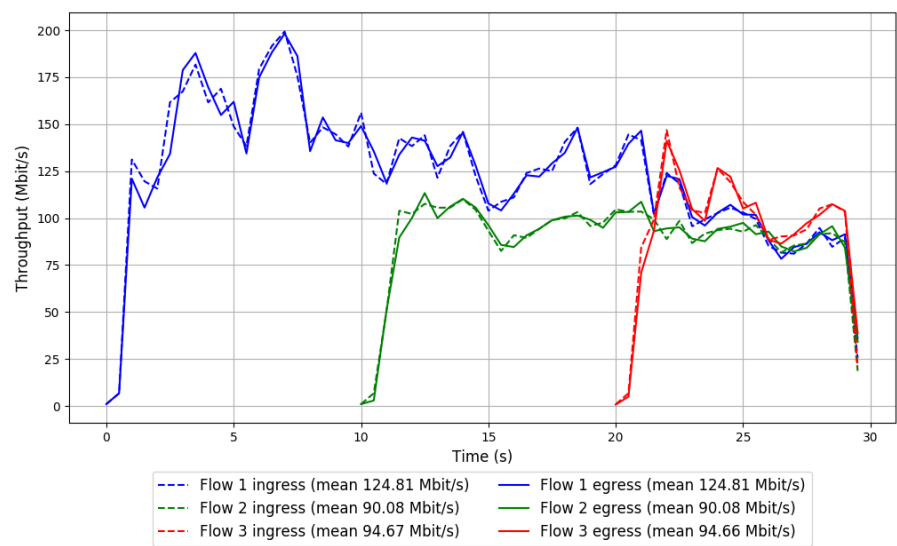
-- Flow 3:

Average throughput: 94.66 Mbit/s

95th percentile per-packet one-way delay: 89.193 ms

Loss rate: 0.01%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2017-11-21 15:58:35

End at: 2017-11-21 15:59:05

Below is generated by plot.py at 2017-11-21 19:21:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 293.41 Mbit/s

95th percentile per-packet one-way delay: 89.828 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 154.27 Mbit/s

95th percentile per-packet one-way delay: 88.717 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 153.06 Mbit/s

95th percentile per-packet one-way delay: 89.769 ms

Loss rate: 0.00%

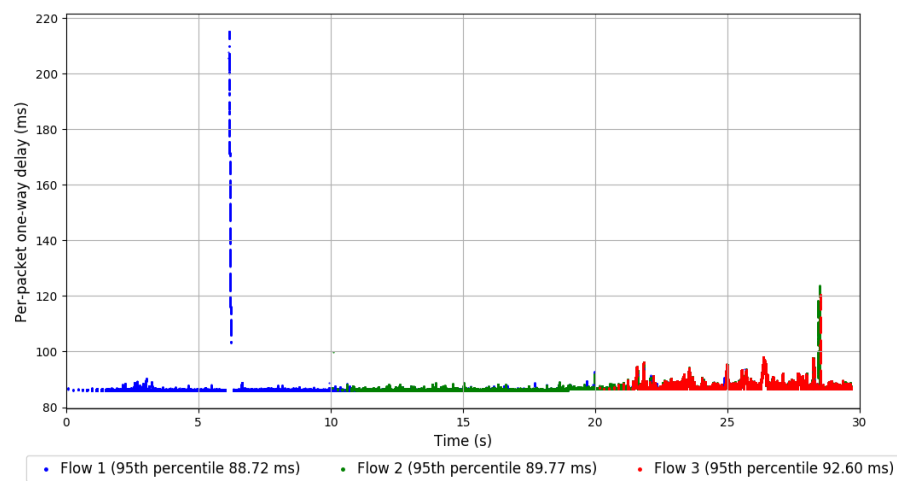
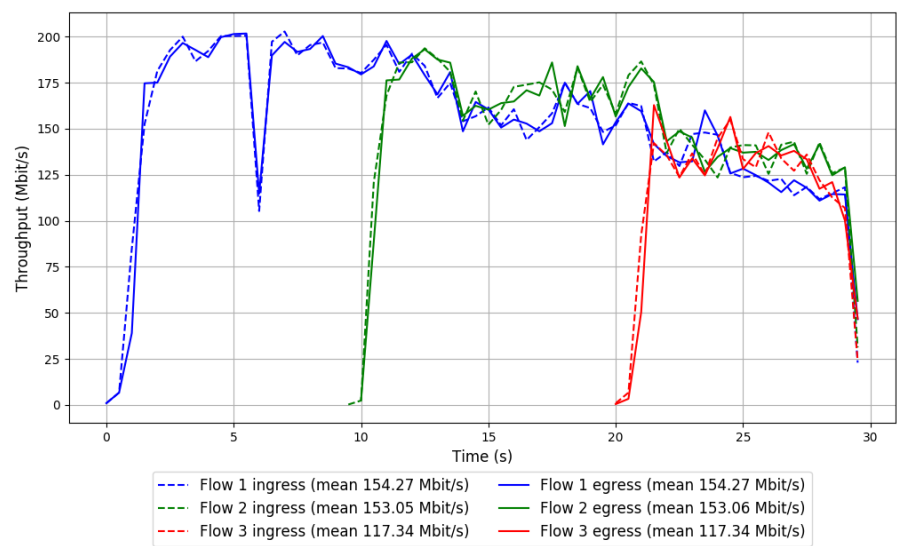
-- Flow 3:

Average throughput: 117.34 Mbit/s

95th percentile per-packet one-way delay: 92.596 ms

Loss rate: 0.00%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2017-11-21 16:11:40

End at: 2017-11-21 16:12:10

Below is generated by plot.py at 2017-11-21 19:21:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 253.17 Mbit/s

95th percentile per-packet one-way delay: 87.713 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 138.47 Mbit/s

95th percentile per-packet one-way delay: 87.444 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 126.87 Mbit/s

95th percentile per-packet one-way delay: 87.669 ms

Loss rate: 0.00%

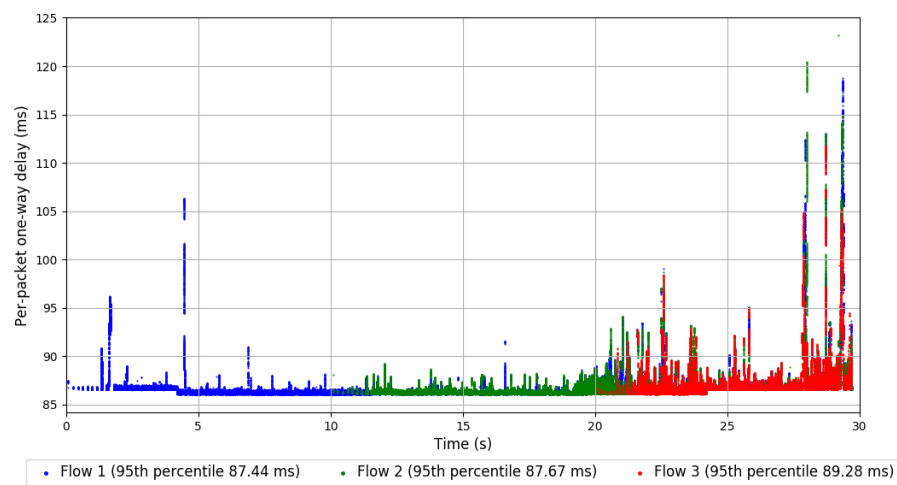
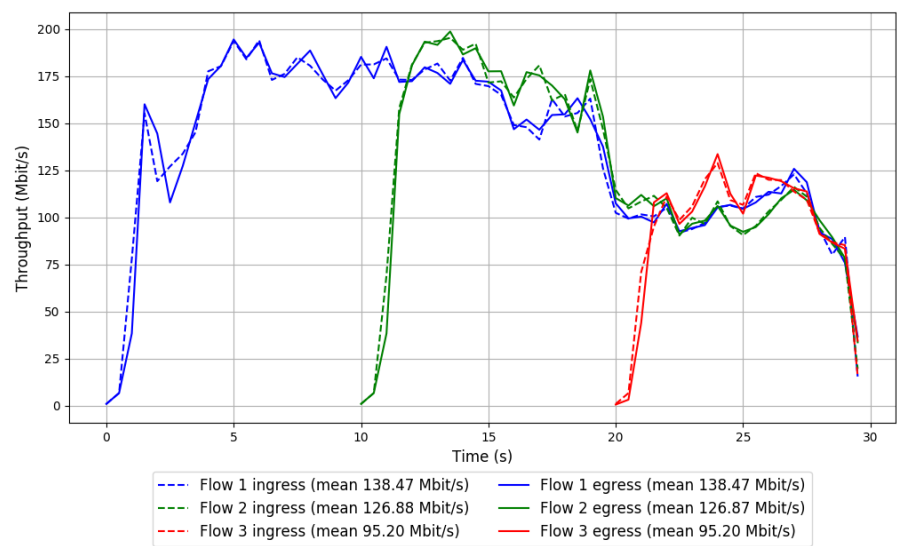
-- Flow 3:

Average throughput: 95.20 Mbit/s

95th percentile per-packet one-way delay: 89.283 ms

Loss rate: 0.00%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2017-11-21 16:24:51

End at: 2017-11-21 16:25:21

Below is generated by plot.py at 2017-11-21 19:21:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 285.82 Mbit/s

95th percentile per-packet one-way delay: 87.590 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 155.51 Mbit/s

95th percentile per-packet one-way delay: 87.353 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 135.48 Mbit/s

95th percentile per-packet one-way delay: 87.644 ms

Loss rate: 0.00%

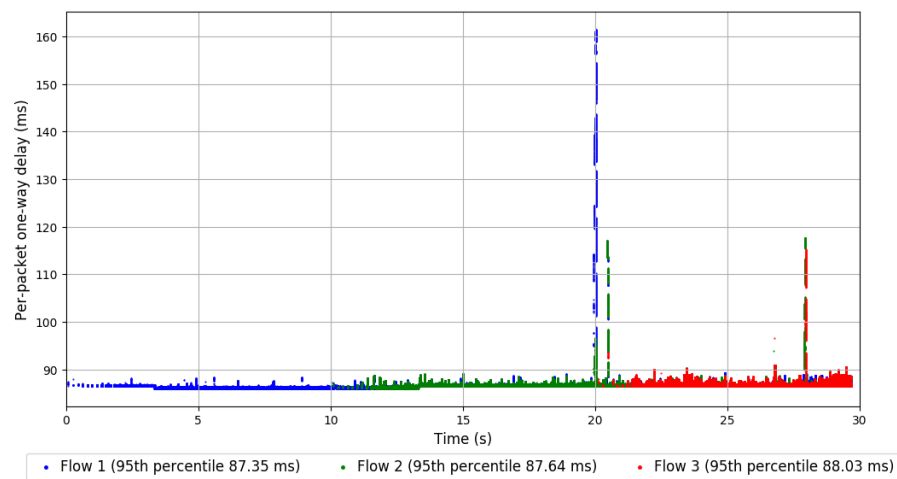
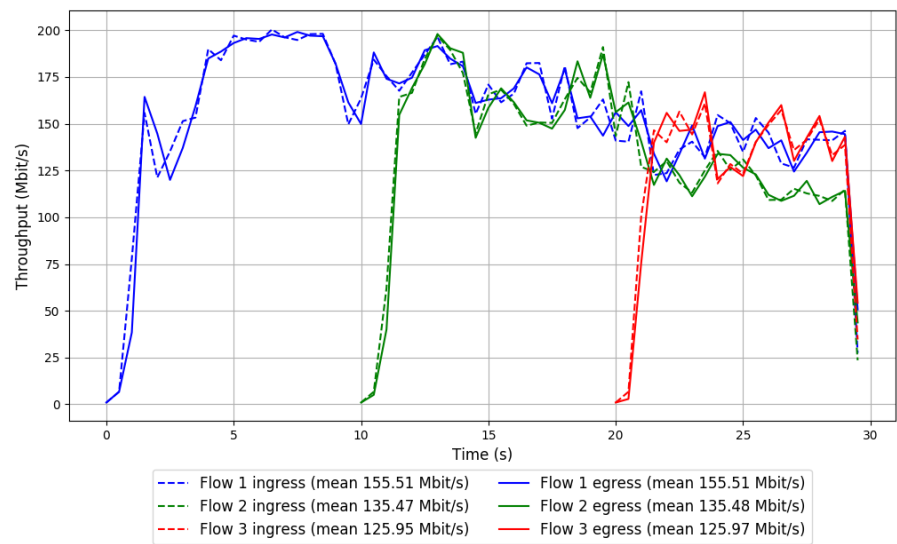
-- Flow 3:

Average throughput: 125.97 Mbit/s

95th percentile per-packet one-way delay: 88.034 ms

Loss rate: 0.01%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2017-11-21 16:37:56

End at: 2017-11-21 16:38:26

Below is generated by plot.py at 2017-11-21 19:22:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 276.71 Mbit/s

95th percentile per-packet one-way delay: 88.593 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 151.25 Mbit/s

95th percentile per-packet one-way delay: 88.074 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 137.50 Mbit/s

95th percentile per-packet one-way delay: 89.050 ms

Loss rate: 0.00%

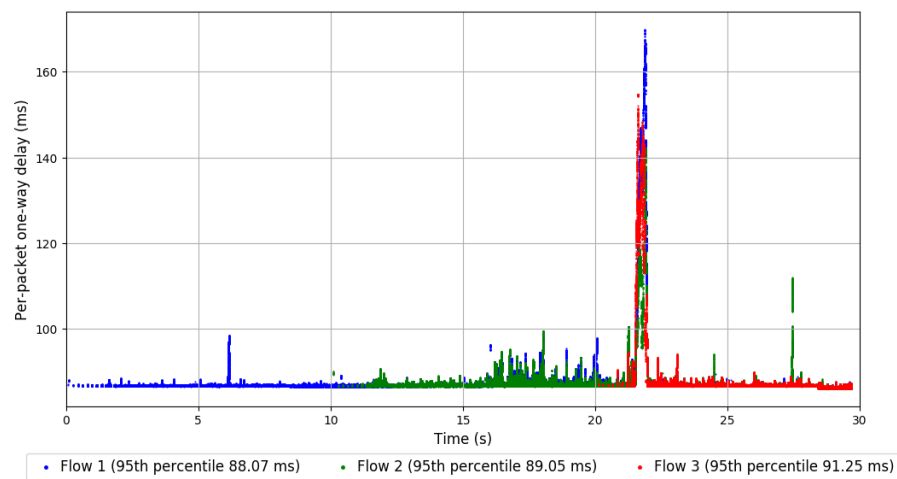
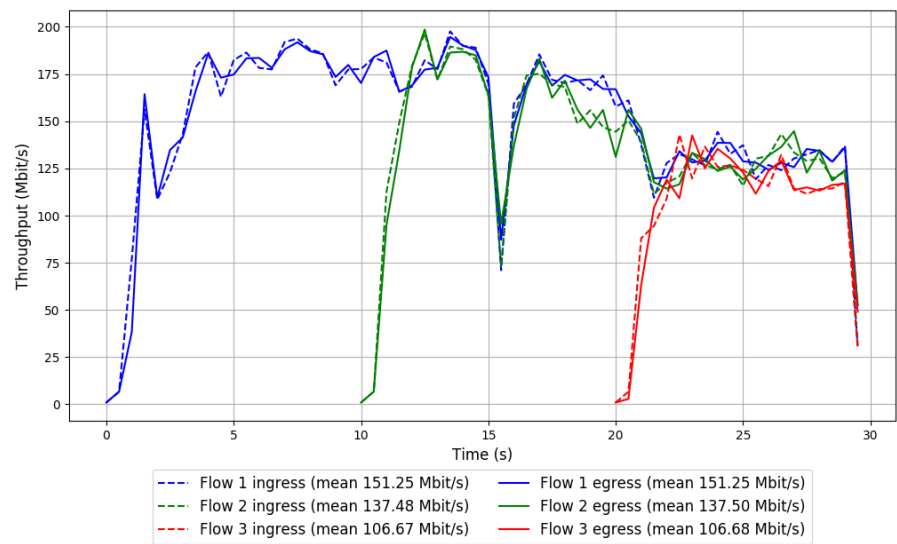
-- Flow 3:

Average throughput: 106.68 Mbit/s

95th percentile per-packet one-way delay: 91.251 ms

Loss rate: 0.00%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2017-11-21 16:50:59

End at: 2017-11-21 16:51:29

Below is generated by plot.py at 2017-11-21 19:24:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 292.42 Mbit/s

95th percentile per-packet one-way delay: 96.686 ms

Loss rate: 0.16%

-- Flow 1:

Average throughput: 158.37 Mbit/s

95th percentile per-packet one-way delay: 91.799 ms

Loss rate: 0.14%

-- Flow 2:

Average throughput: 140.08 Mbit/s

95th percentile per-packet one-way delay: 97.559 ms

Loss rate: 0.27%

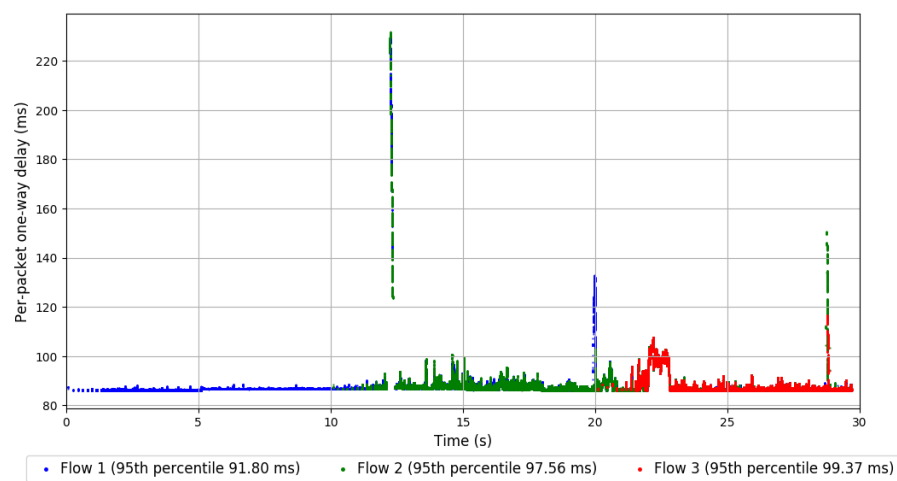
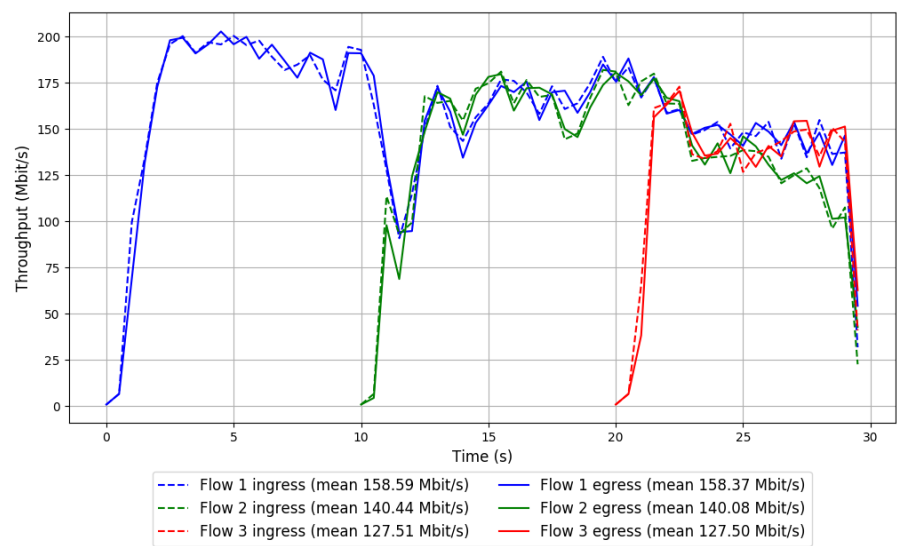
-- Flow 3:

Average throughput: 127.50 Mbit/s

95th percentile per-packet one-way delay: 99.369 ms

Loss rate: 0.01%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2017-11-21 17:04:07

End at: 2017-11-21 17:04:37

Below is generated by plot.py at 2017-11-21 19:24:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 285.56 Mbit/s

95th percentile per-packet one-way delay: 87.869 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 156.70 Mbit/s

95th percentile per-packet one-way delay: 87.461 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 135.04 Mbit/s

95th percentile per-packet one-way delay: 88.020 ms

Loss rate: 0.00%

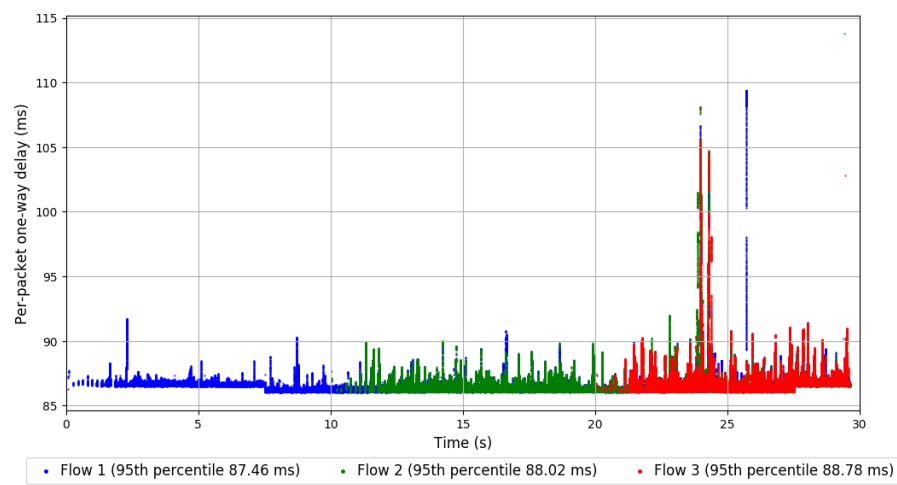
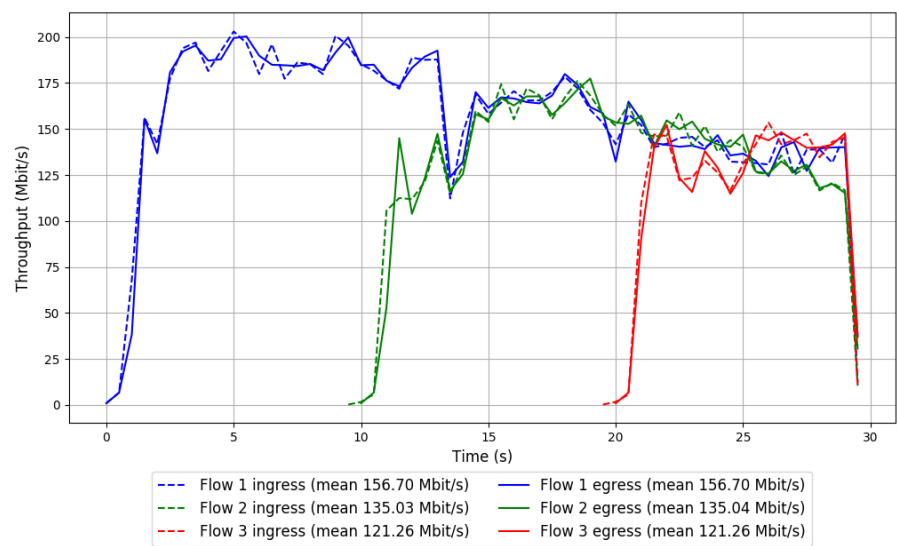
-- Flow 3:

Average throughput: 121.26 Mbit/s

95th percentile per-packet one-way delay: 88.782 ms

Loss rate: 0.00%

Run 10: Report of Indigo — Data Link

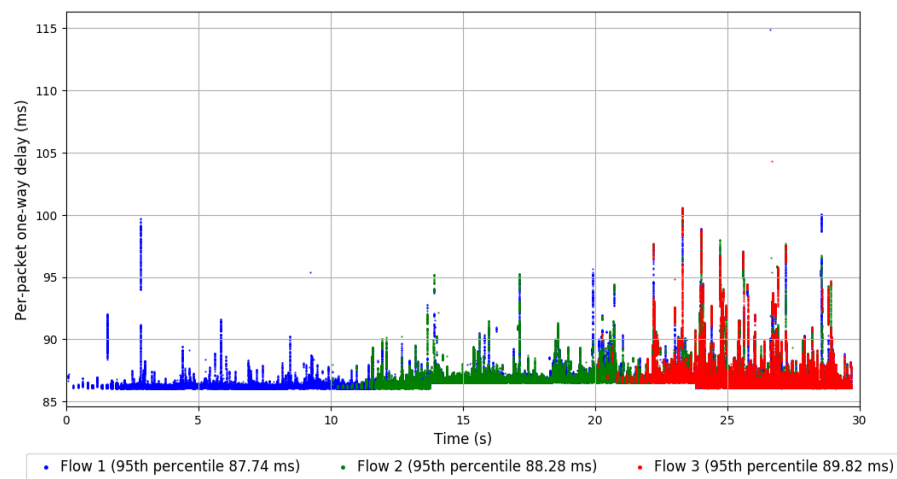
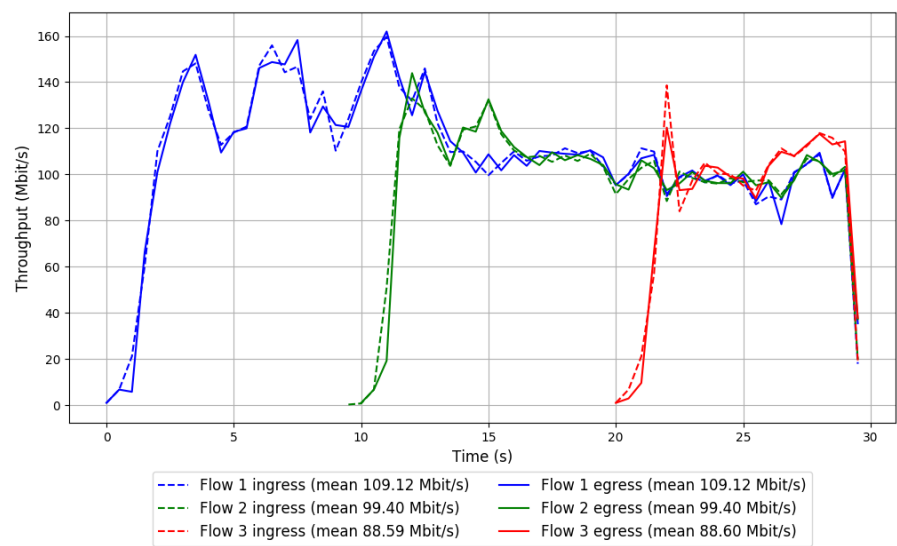


```
Run 1: Statistics of Indigo-calib

Start at: 2017-11-21 14:57:41
End at: 2017-11-21 14:58:11

# Below is generated by plot.py at 2017-11-21 19:24:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 203.63 Mbit/s
95th percentile per-packet one-way delay: 88.181 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 109.12 Mbit/s
95th percentile per-packet one-way delay: 87.738 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 99.40 Mbit/s
95th percentile per-packet one-way delay: 88.281 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 88.60 Mbit/s
95th percentile per-packet one-way delay: 89.824 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo-calib — Data Link

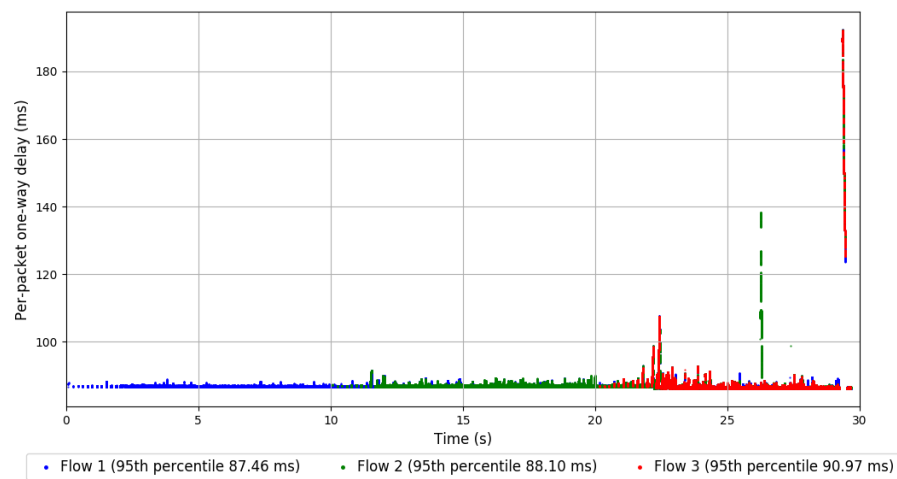
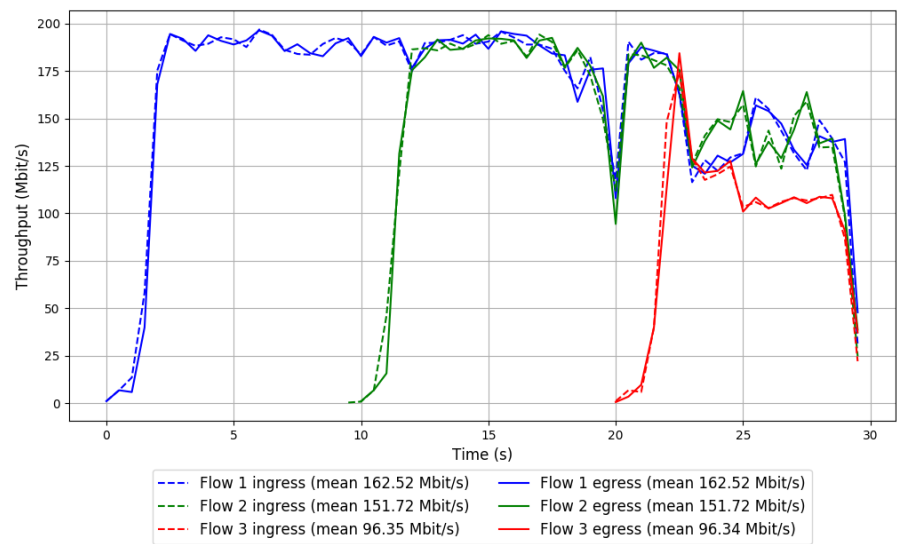


```
Run 2: Statistics of Indigo-calib

Start at: 2017-11-21 15:10:42
End at: 2017-11-21 15:11:12

# Below is generated by plot.py at 2017-11-21 19:25:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 293.81 Mbit/s
95th percentile per-packet one-way delay: 88.010 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 162.52 Mbit/s
95th percentile per-packet one-way delay: 87.462 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 151.72 Mbit/s
95th percentile per-packet one-way delay: 88.101 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 96.34 Mbit/s
95th percentile per-packet one-way delay: 90.970 ms
Loss rate: 0.01%
```

Run 2: Report of Indigo-calib — Data Link

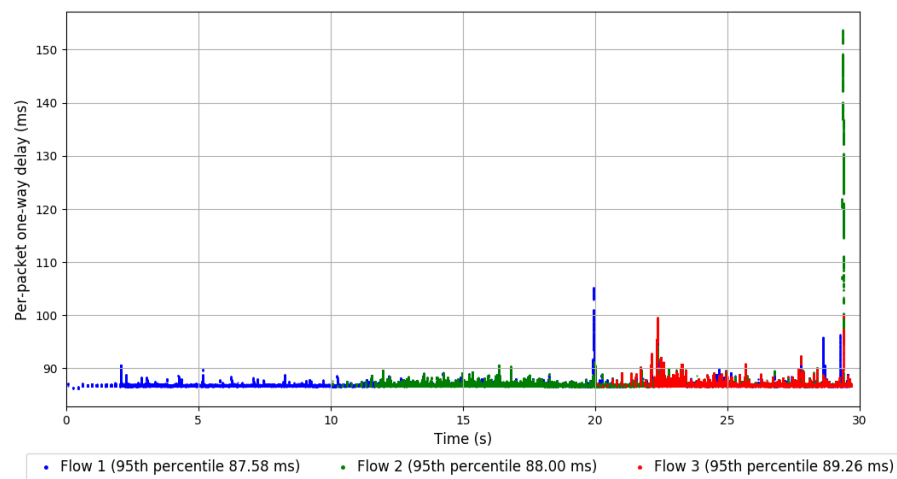
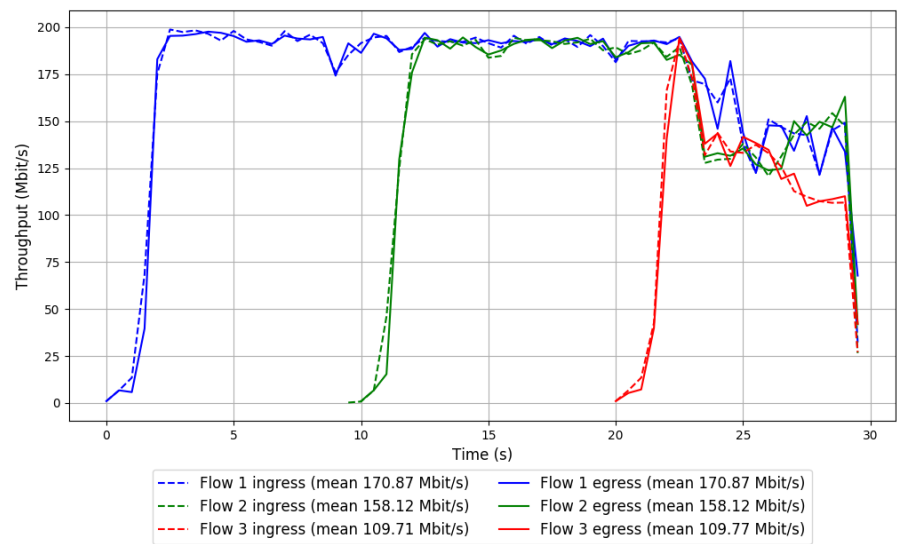


```
Run 3: Statistics of Indigo-calib

Start at: 2017-11-21 15:23:54
End at: 2017-11-21 15:24:24

# Below is generated by plot.py at 2017-11-21 19:27:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 311.12 Mbit/s
95th percentile per-packet one-way delay: 87.919 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 170.87 Mbit/s
95th percentile per-packet one-way delay: 87.583 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 158.12 Mbit/s
95th percentile per-packet one-way delay: 87.998 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 109.77 Mbit/s
95th percentile per-packet one-way delay: 89.259 ms
Loss rate: 0.00%
```


Run 3: Report of Indigo-calib — Data Link



Run 4: Statistics of Indigo-calib

Start at: 2017-11-21 15:37:17

End at: 2017-11-21 15:37:47

Below is generated by plot.py at 2017-11-21 19:27:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 299.01 Mbit/s

95th percentile per-packet one-way delay: 88.013 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 164.17 Mbit/s

95th percentile per-packet one-way delay: 87.479 ms

Loss rate: 0.12%

-- Flow 2:

Average throughput: 153.37 Mbit/s

95th percentile per-packet one-way delay: 88.173 ms

Loss rate: 0.00%

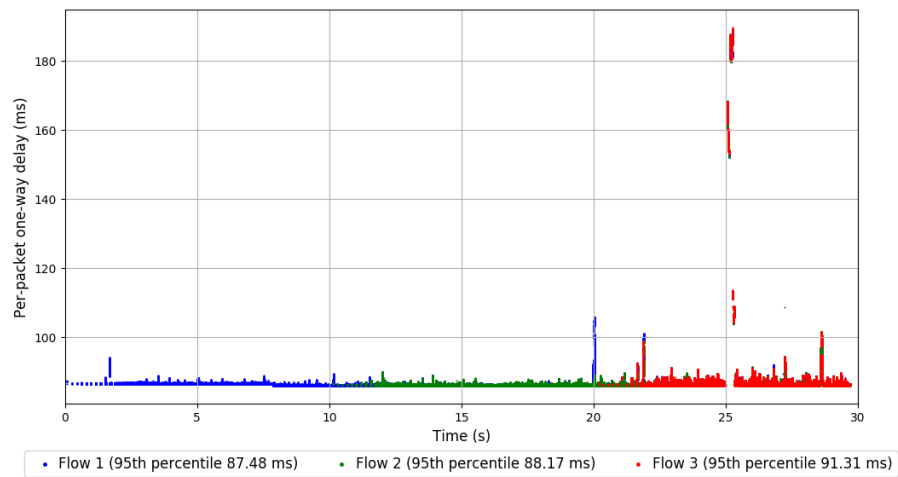
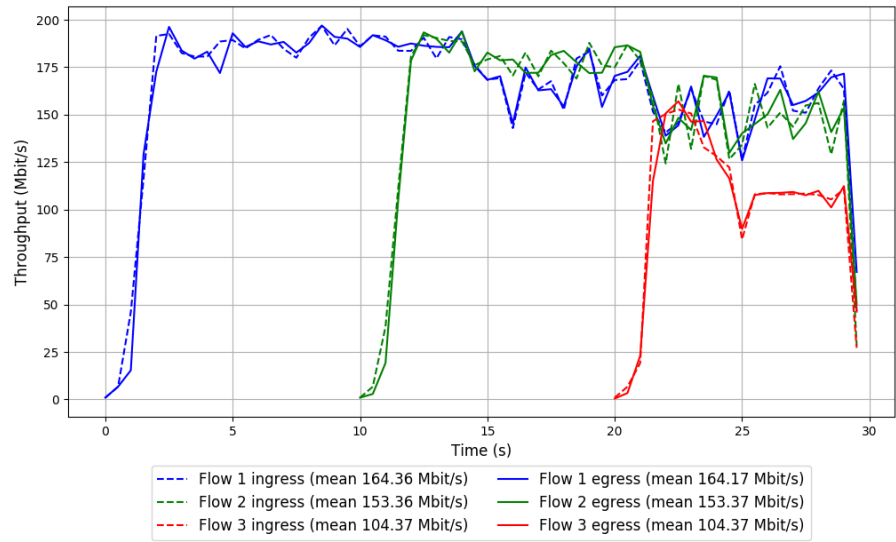
-- Flow 3:

Average throughput: 104.37 Mbit/s

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

Loss rate: 0.00%

Run 4: Report of Indigo-calib — Data Link

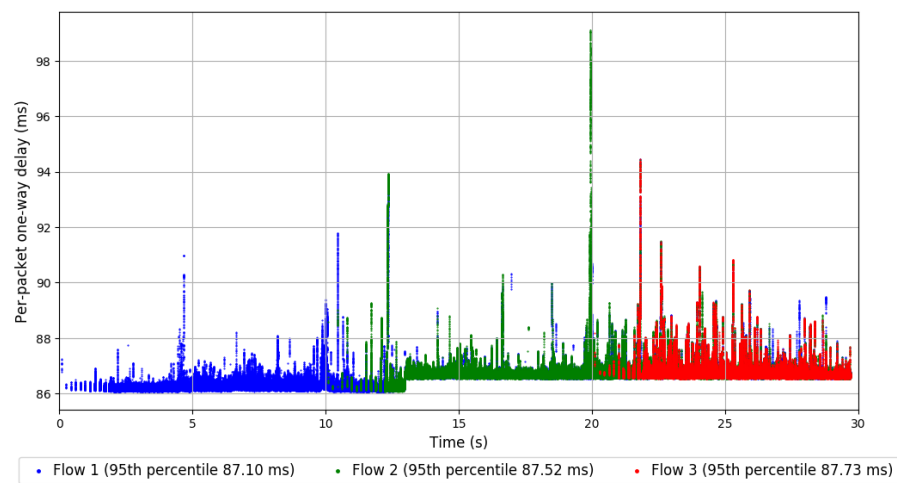
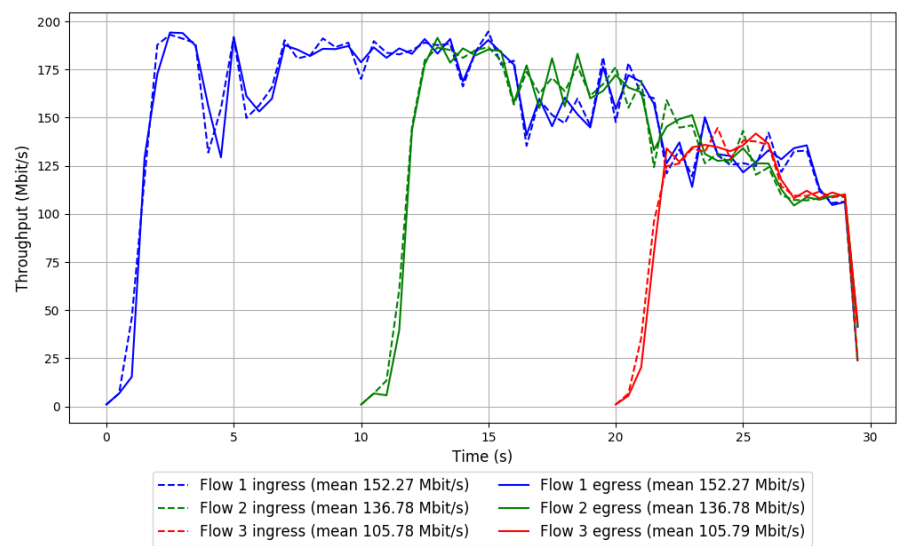


```
Run 5: Statistics of Indigo-calib

Start at: 2017-11-21 15:50:21
End at: 2017-11-21 15:50:51

# Below is generated by plot.py at 2017-11-21 19:27:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 277.11 Mbit/s
95th percentile per-packet one-way delay: 87.332 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 152.27 Mbit/s
95th percentile per-packet one-way delay: 87.101 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 136.78 Mbit/s
95th percentile per-packet one-way delay: 87.524 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 105.79 Mbit/s
95th percentile per-packet one-way delay: 87.732 ms
Loss rate: 0.00%
```

Run 5: Report of Indigo-calib — Data Link



Run 6: Statistics of Indigo-calib

Start at: 2017-11-21 16:03:20

End at: 2017-11-21 16:03:50

Below is generated by plot.py at 2017-11-21 19:27:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 270.16 Mbit/s

95th percentile per-packet one-way delay: 87.428 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 146.01 Mbit/s

95th percentile per-packet one-way delay: 87.208 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 131.10 Mbit/s

95th percentile per-packet one-way delay: 87.615 ms

Loss rate: 0.00%

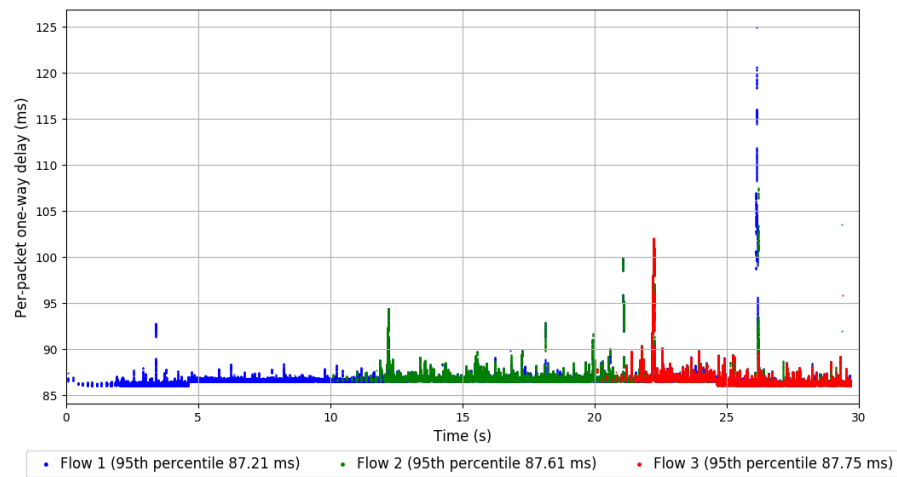
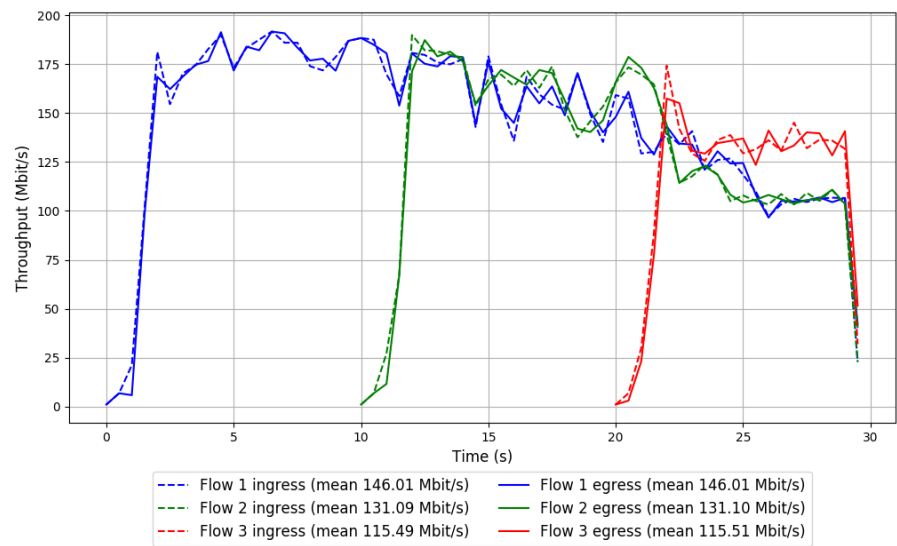
-- Flow 3:

Average throughput: 115.51 Mbit/s

95th percentile per-packet one-way delay: 87.754 ms

Loss rate: 0.00%

Run 6: Report of Indigo-calib — Data Link



Run 7: Statistics of Indigo-calib

Start at: 2017-11-21 16:16:30

End at: 2017-11-21 16:17:00

Below is generated by plot.py at 2017-11-21 19:27:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 248.49 Mbit/s

95th percentile per-packet one-way delay: 88.055 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 139.49 Mbit/s

95th percentile per-packet one-way delay: 87.649 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 119.21 Mbit/s

95th percentile per-packet one-way delay: 88.678 ms

Loss rate: 0.00%

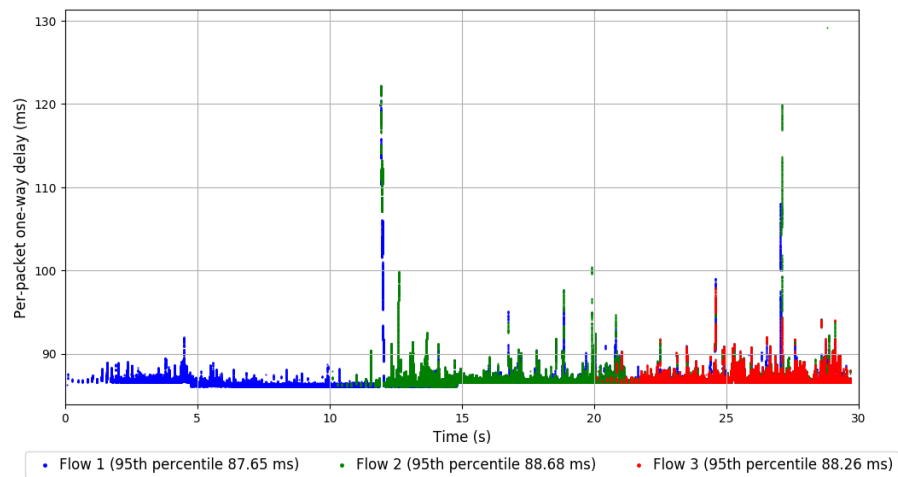
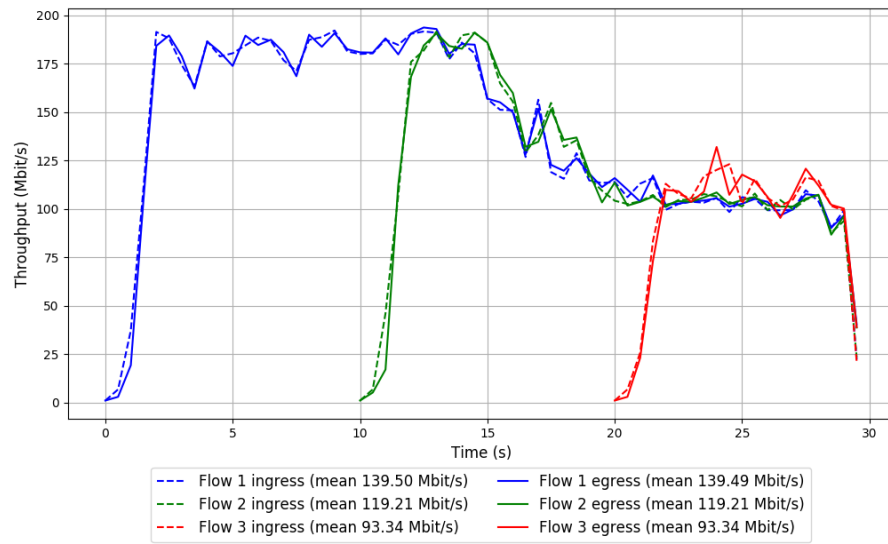
-- Flow 3:

Average throughput: 93.34 Mbit/s

95th percentile per-packet one-way delay: 88.262 ms

Loss rate: 0.00%

Run 7: Report of Indigo-calib — Data Link



Run 8: Statistics of Indigo-calib

Start at: 2017-11-21 16:29:42

End at: 2017-11-21 16:30:12

Below is generated by plot.py at 2017-11-21 19:28:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 284.33 Mbit/s

95th percentile per-packet one-way delay: 87.463 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 159.76 Mbit/s

95th percentile per-packet one-way delay: 87.235 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 136.41 Mbit/s

95th percentile per-packet one-way delay: 87.563 ms

Loss rate: 0.09%

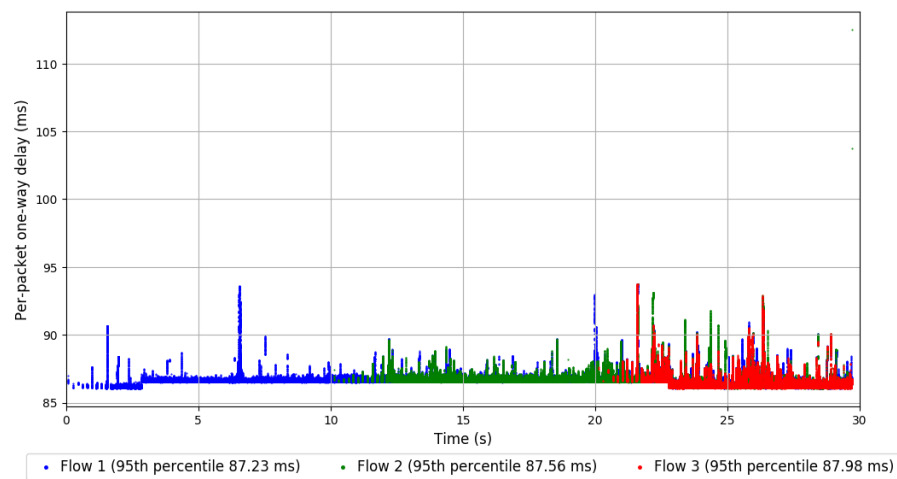
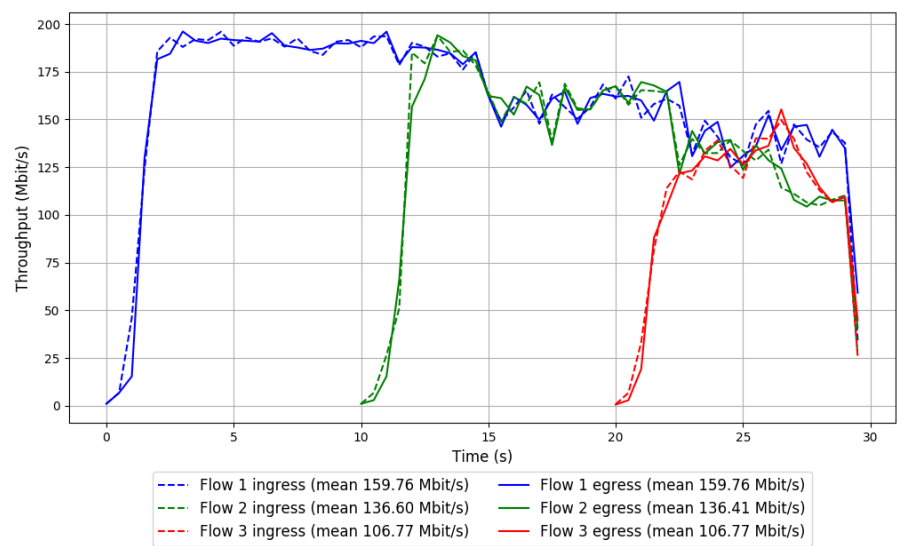
-- Flow 3:

Average throughput: 106.77 Mbit/s

95th percentile per-packet one-way delay: 87.977 ms

Loss rate: 0.01%

Run 8: Report of Indigo-calib — Data Link

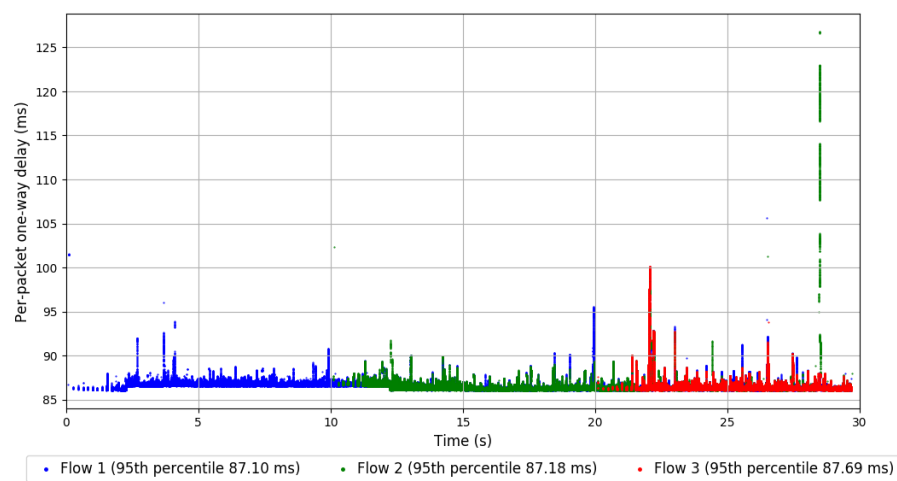
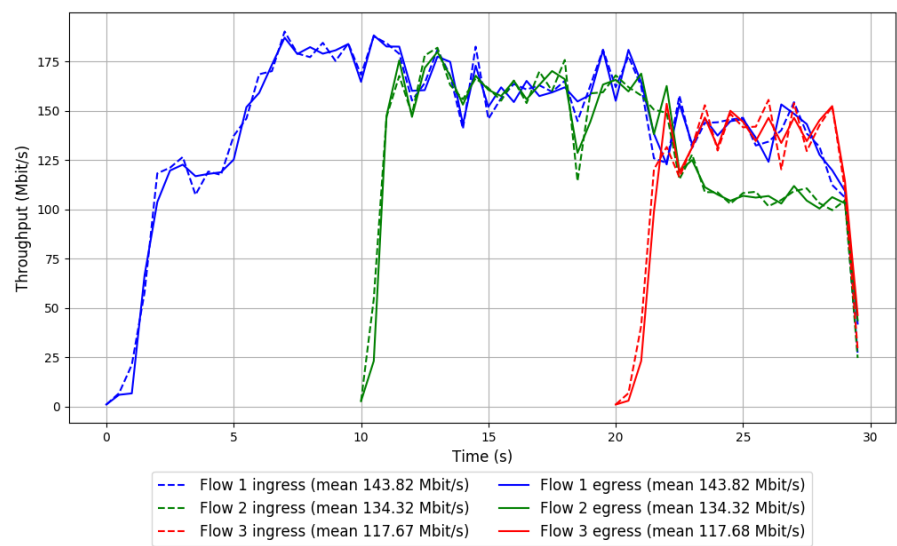


```
Run 9: Statistics of Indigo-calib

Start at: 2017-11-21 16:42:42
End at: 2017-11-21 16:43:12

# Below is generated by plot.py at 2017-11-21 19:28:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 270.74 Mbit/s
95th percentile per-packet one-way delay: 87.155 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 143.82 Mbit/s
95th percentile per-packet one-way delay: 87.097 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 134.32 Mbit/s
95th percentile per-packet one-way delay: 87.177 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 117.68 Mbit/s
95th percentile per-packet one-way delay: 87.687 ms
Loss rate: 0.00%
```

Run 9: Report of Indigo-calib — Data Link



Run 10: Statistics of Indigo-calib

Start at: 2017-11-21 16:55:49

End at: 2017-11-21 16:56:19

Below is generated by plot.py at 2017-11-21 19:28:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 269.83 Mbit/s

95th percentile per-packet one-way delay: 89.032 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 154.24 Mbit/s

95th percentile per-packet one-way delay: 88.372 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 121.09 Mbit/s

95th percentile per-packet one-way delay: 88.852 ms

Loss rate: 0.04%

-- Flow 3:

Average throughput: 109.82 Mbit/s

95th percentile per-packet one-way delay: 92.698 ms

Loss rate: 0.09%

Run 10: Report of Indigo-calib — Data Link

