

Pantheon Report

Generated at 2017-12-20 14:21:26 (UTC).

Data path: Stanford Ethernet (*remote*) → AWS California 1 Ethernet (*local*).

Repeated the test of 14 congestion control schemes 10 times.

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

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

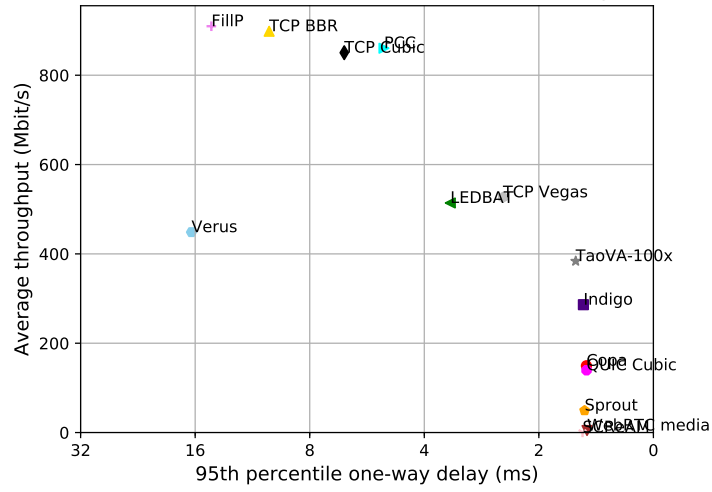
Tested BBR with qdisc of Fair Queuing (*fq*), and other schemes with the default Linux qdisc (*pfifo_fast*).

NTP offsets were measured against `time.stanford.edu` and have been applied to correct the timestamps in logs.

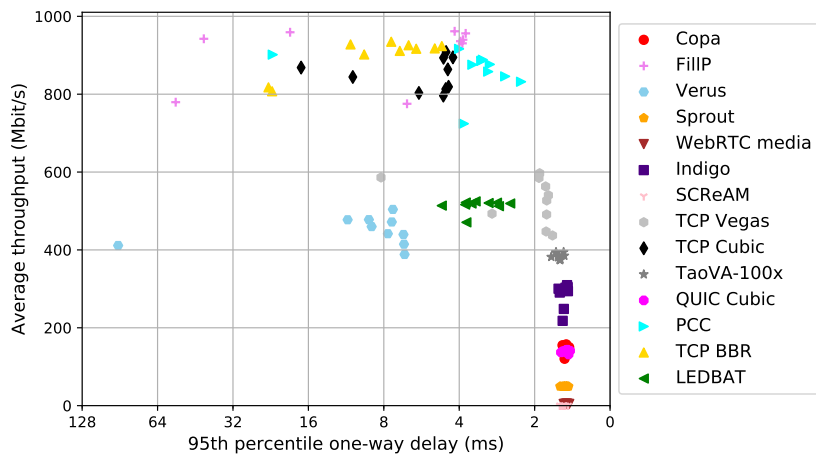
Git summary:

```
branch: master @ 904a5750834816b1e46a2c86405d707788d27c16
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ dcaef6b00654e660f73f7ed679d2eab61ce08639
third_party/genericCC @ 80b516c448f795fd6e9675f7177b69c622f07da8
third_party/indigo @ b19f3730105f9aa95452552af924e3719b03cc55
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
  M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ fb1053193c2861da659ba9013db26744ccfcf993
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
  M receiver/src/buffer.h
  M receiver/src/core.cpp
  M sender/src/buffer.h
  M sender/src/core.cpp
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eaeeb30b267cde681
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 Stanford Ethernet to AWS California 1 Ethernet, 10 runs of 30s each per scheme
 3 flows with 10s interval between flows (mean of all runs by scheme)



test from Stanford Ethernet to AWS California 1 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	531.36	390.97	323.16	11.51	8.10	4.51	0.05	0.10	0.23
TCP Cubic	10	479.39	399.67	317.42	6.21	6.56	4.53	0.06	0.11	0.27
LEDBAT	10	297.34	240.34	172.11	3.18	4.25	2.24	0.04	0.09	0.26
PCC	10	613.89	267.62	209.40	7.75	3.17	3.32	0.20	0.12	0.22
QUIC Cubic	10	74.46	69.08	58.20	1.16	1.17	1.17	0.06	0.10	0.24
SCReAM	10	0.22	0.22	0.22	1.23	1.24	1.22	0.03	0.00	0.28
WebRTC media	10	2.41	1.50	0.64	1.15	1.16	1.16	0.07	0.16	0.35
Sprout	10	24.82	24.70	24.66	1.21	1.19	1.19	0.08	0.07	0.23
TaoVA-100x	10	217.57	195.77	144.60	1.26	1.50	1.63	0.05	0.07	0.22
TCP Vegas	10	251.43	267.23	294.81	1.87	1.97	2.67	0.06	0.10	0.21
Verus	10	265.50	199.82	152.45	17.69	11.21	5.11	0.22	0.09	0.24
Copa	10	81.08	69.93	84.16	1.17	1.17	1.17	0.05	0.07	0.19
FillP	10	532.08	410.01	317.65	8.28	22.96	3.97	0.09	0.44	0.23
Indigo	10	151.07	150.39	108.37	1.20	1.24	1.27	0.06	0.08	0.24

Run 1: Statistics of TCP BBR

Start at: 2017-12-20 05:08:04
End at: 2017-12-20 05:08:34
Local clock offset: 0.17 ms
Remote clock offset: -2.512 ms

Below is generated by plot.py at 2017-12-20 12:40:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 925.80 Mbit/s
95th percentile per-packet one-way delay: 6.370 ms
Loss rate: 0.08%

-- Flow 1:

Average throughput: 556.79 Mbit/s
95th percentile per-packet one-way delay: 11.105 ms
Loss rate: 0.04%

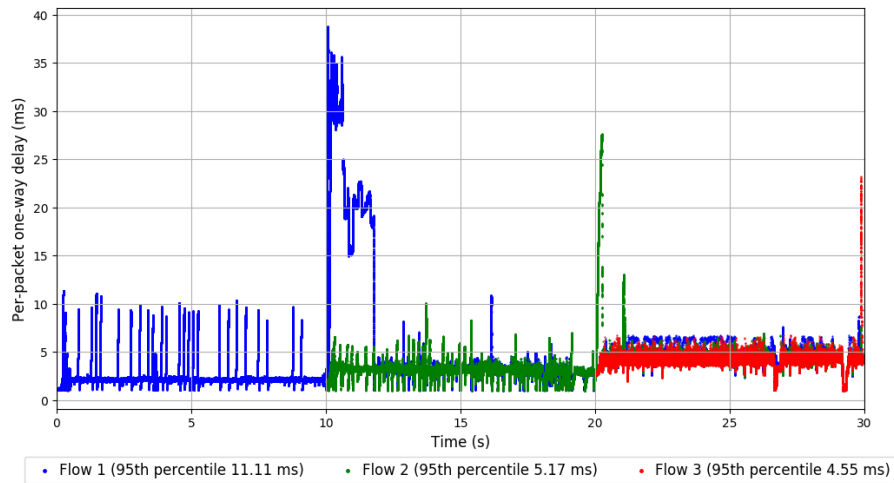
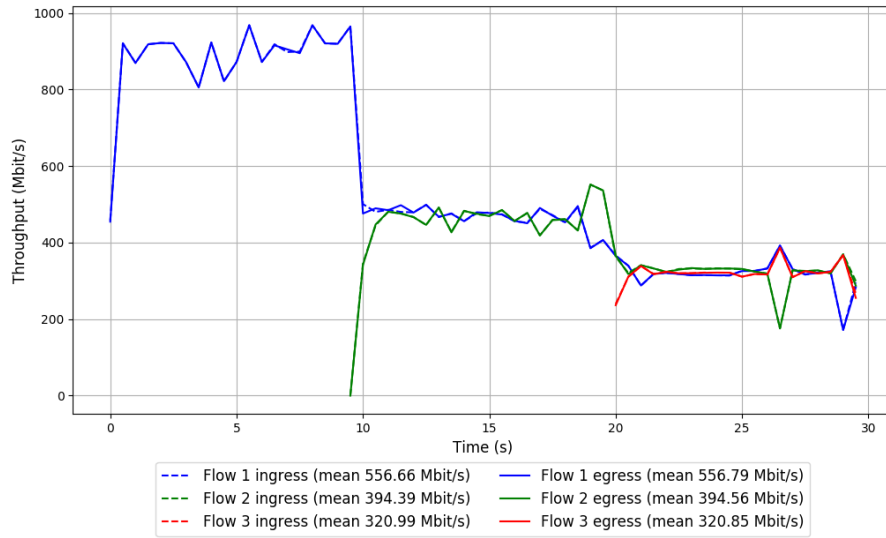
-- Flow 2:

Average throughput: 394.56 Mbit/s
95th percentile per-packet one-way delay: 5.170 ms
Loss rate: 0.10%

-- Flow 3:

Average throughput: 320.85 Mbit/s
95th percentile per-packet one-way delay: 4.552 ms
Loss rate: 0.22%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2017-12-20 05:30:17
End at: 2017-12-20 05:30:47
Local clock offset: 0.208 ms
Remote clock offset: -1.902 ms

Below is generated by plot.py at 2017-12-20 12:40:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 817.59 Mbit/s
95th percentile per-packet one-way delay: 23.094 ms
Loss rate: 0.09%

-- Flow 1:

Average throughput: 451.77 Mbit/s
95th percentile per-packet one-way delay: 23.971 ms
Loss rate: 0.05%

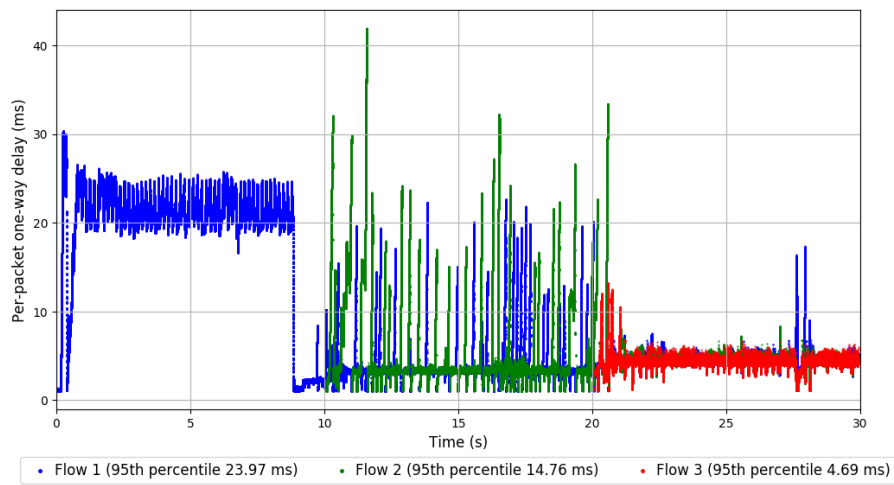
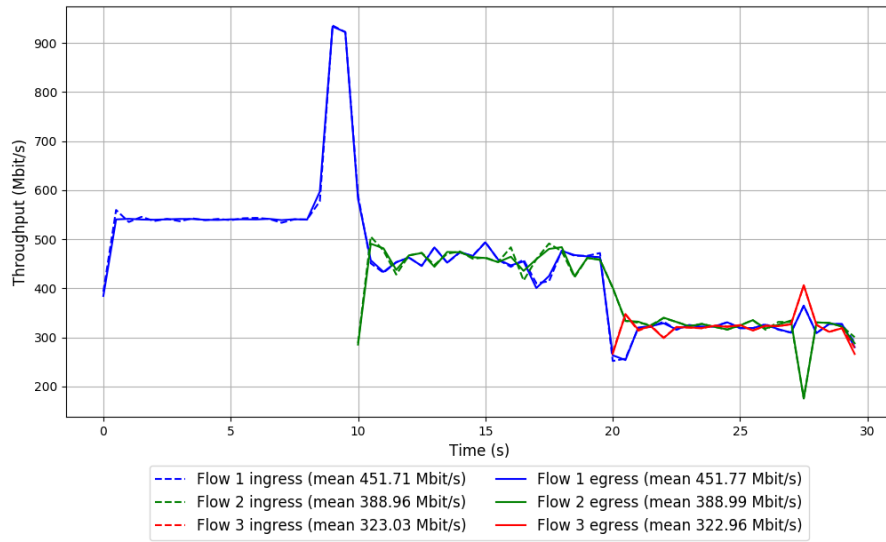
-- Flow 2:

Average throughput: 388.99 Mbit/s
95th percentile per-packet one-way delay: 14.755 ms
Loss rate: 0.10%

-- Flow 3:

Average throughput: 322.96 Mbit/s
95th percentile per-packet one-way delay: 4.693 ms
Loss rate: 0.24%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2017-12-20 05:52:28
End at: 2017-12-20 05:52:58
Local clock offset: 0.201 ms
Remote clock offset: -1.287 ms

Below is generated by plot.py at 2017-12-20 12:40:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 911.24 Mbit/s
95th percentile per-packet one-way delay: 6.907 ms
Loss rate: 0.08%

-- Flow 1:

Average throughput: 543.81 Mbit/s
95th percentile per-packet one-way delay: 9.231 ms
Loss rate: 0.05%

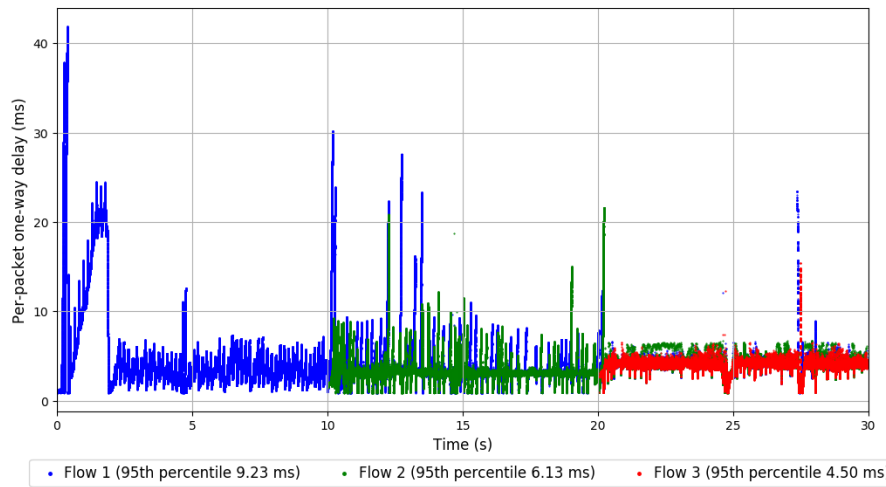
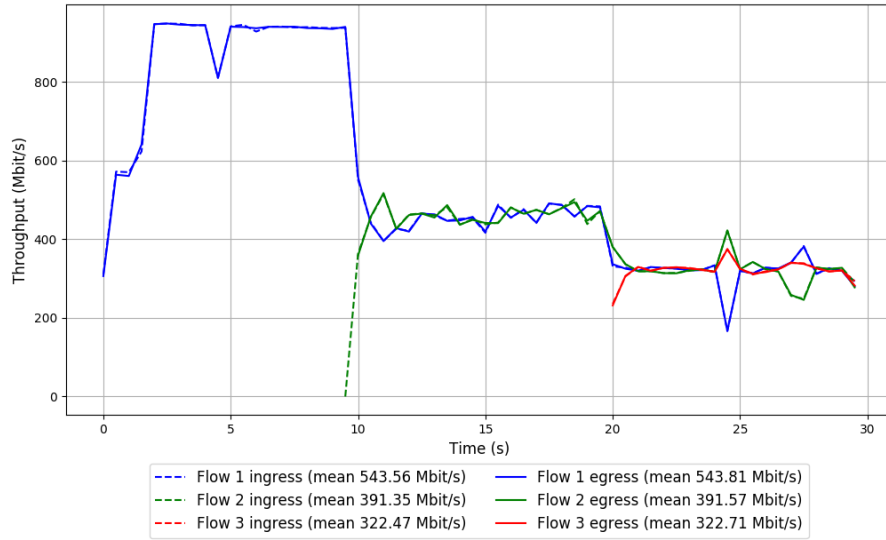
-- Flow 2:

Average throughput: 391.57 Mbit/s
95th percentile per-packet one-way delay: 6.126 ms
Loss rate: 0.10%

-- Flow 3:

Average throughput: 322.71 Mbit/s
95th percentile per-packet one-way delay: 4.498 ms
Loss rate: 0.23%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2017-12-20 06:14:48

End at: 2017-12-20 06:15:18

Local clock offset: 0.247 ms

Remote clock offset: -1.0 ms

Below is generated by plot.py at 2017-12-20 12:40:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 927.88 Mbit/s

95th percentile per-packet one-way delay: 10.863 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 558.50 Mbit/s

95th percentile per-packet one-way delay: 15.153 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 393.43 Mbit/s

95th percentile per-packet one-way delay: 7.876 ms

Loss rate: 0.10%

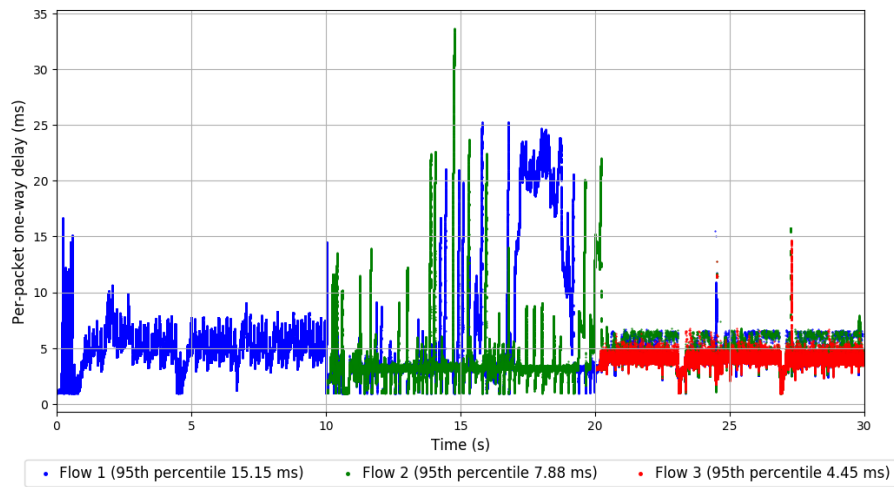
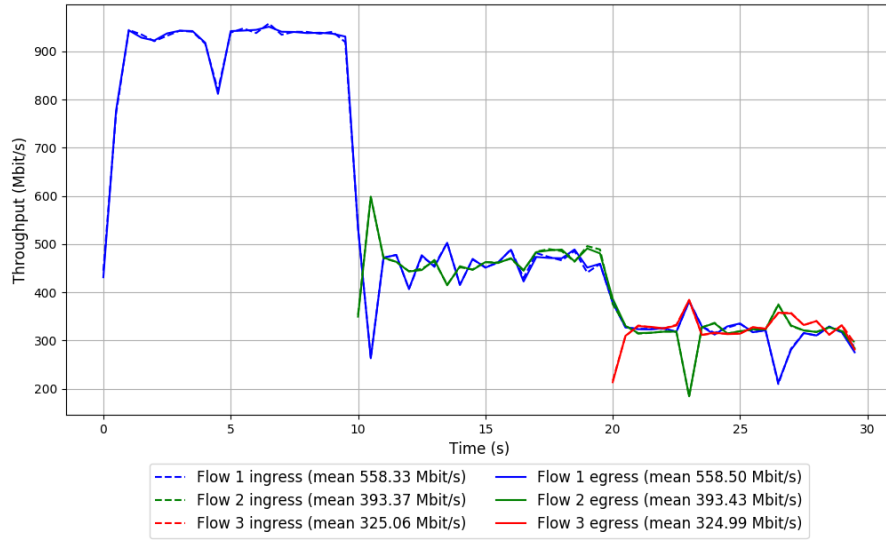
-- Flow 3:

Average throughput: 324.99 Mbit/s

95th percentile per-packet one-way delay: 4.448 ms

Loss rate: 0.25%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2017-12-20 06:37:09
End at: 2017-12-20 06:37:39
Local clock offset: 0.44 ms
Remote clock offset: -0.618 ms

Below is generated by plot.py at 2017-12-20 12:40:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 902.09 Mbit/s
95th percentile per-packet one-way delay: 9.580 ms
Loss rate: 0.08%

-- Flow 1:

Average throughput: 533.96 Mbit/s
95th percentile per-packet one-way delay: 7.474 ms
Loss rate: 0.05%

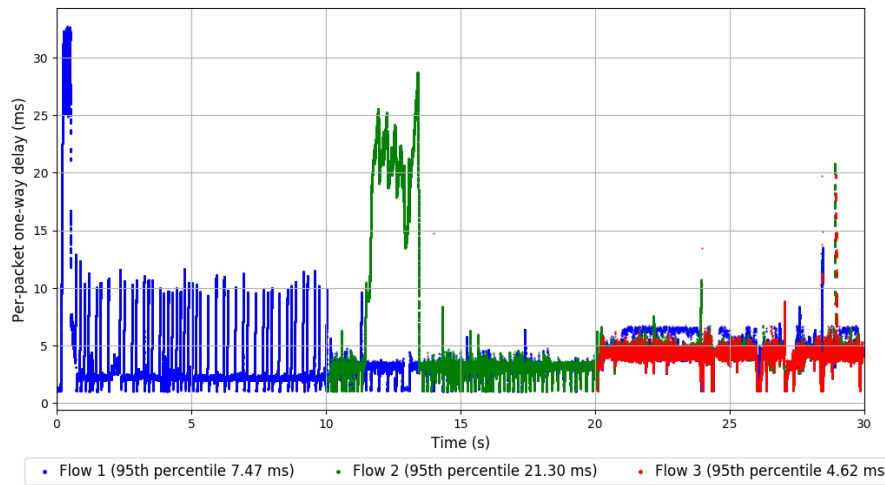
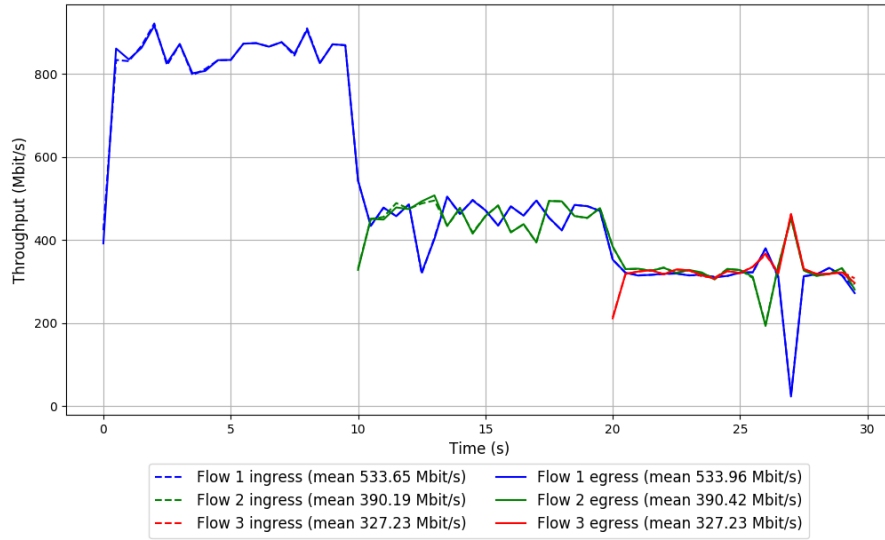
-- Flow 2:

Average throughput: 390.42 Mbit/s
95th percentile per-packet one-way delay: 21.300 ms
Loss rate: 0.10%

-- Flow 3:

Average throughput: 327.23 Mbit/s
95th percentile per-packet one-way delay: 4.625 ms
Loss rate: 0.22%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2017-12-20 06:59:24
End at: 2017-12-20 06:59:54
Local clock offset: 0.727 ms
Remote clock offset: -0.626 ms

Below is generated by plot.py at 2017-12-20 12:40:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 807.51 Mbit/s
95th percentile per-packet one-way delay: 22.331 ms
Loss rate: 0.09%

-- Flow 1:

Average throughput: 440.61 Mbit/s
95th percentile per-packet one-way delay: 23.431 ms
Loss rate: 0.06%

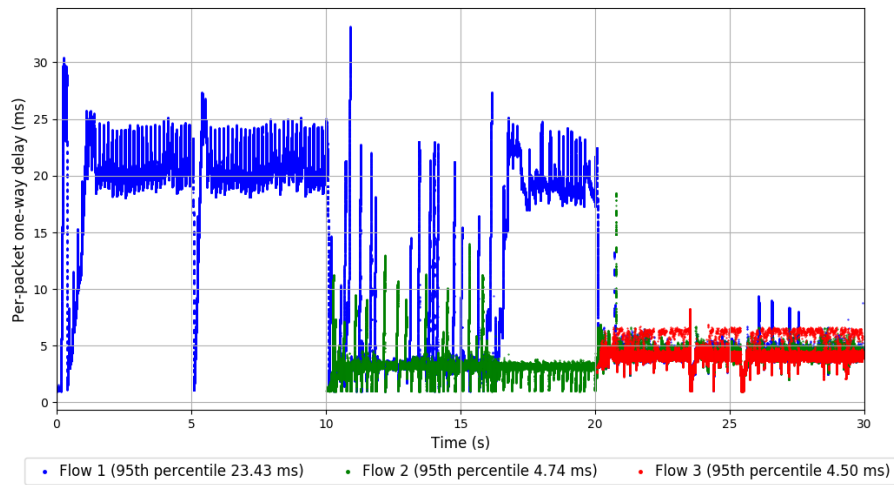
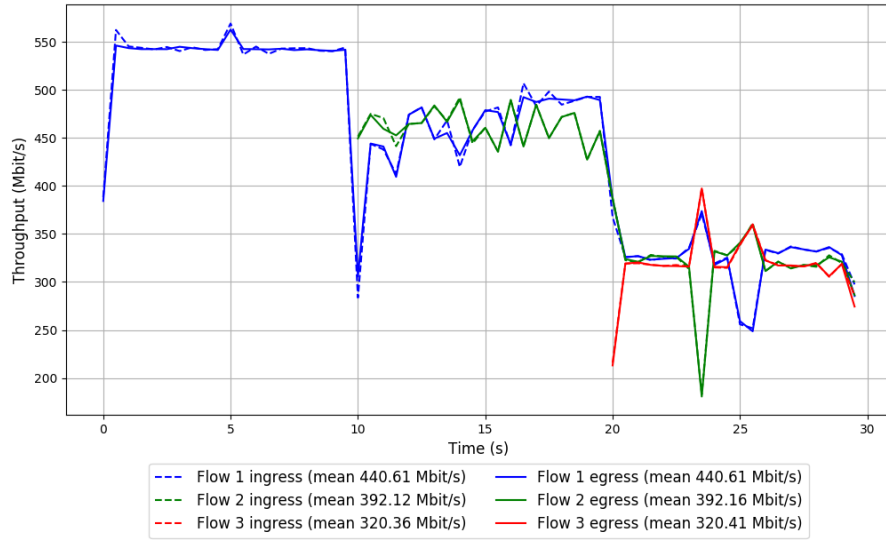
-- Flow 2:

Average throughput: 392.16 Mbit/s
95th percentile per-packet one-way delay: 4.744 ms
Loss rate: 0.10%

-- Flow 3:

Average throughput: 320.41 Mbit/s
95th percentile per-packet one-way delay: 4.504 ms
Loss rate: 0.21%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2017-12-20 07:21:42
End at: 2017-12-20 07:22:12
Local clock offset: 0.96 ms
Remote clock offset: -0.547 ms

Below is generated by plot.py at 2017-12-20 12:40:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 923.61 Mbit/s
95th percentile per-packet one-way delay: 4.694 ms
Loss rate: 0.08%

-- Flow 1:

Average throughput: 557.98 Mbit/s
95th percentile per-packet one-way delay: 4.971 ms
Loss rate: 0.04%

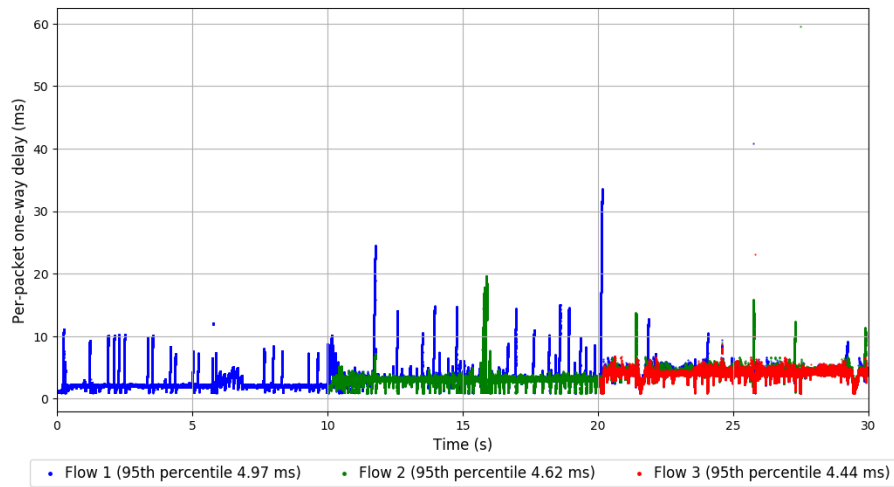
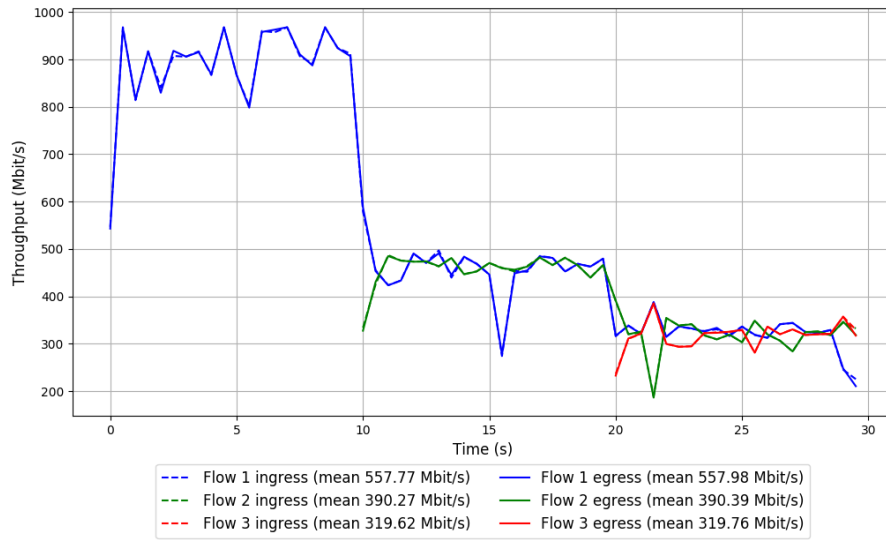
-- Flow 2:

Average throughput: 390.39 Mbit/s
95th percentile per-packet one-way delay: 4.619 ms
Loss rate: 0.10%

-- Flow 3:

Average throughput: 319.76 Mbit/s
95th percentile per-packet one-way delay: 4.442 ms
Loss rate: 0.24%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2017-12-20 07:43:55
End at: 2017-12-20 07:44:25
Local clock offset: 1.144 ms
Remote clock offset: -0.916 ms

Below is generated by plot.py at 2017-12-20 12:40:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 917.66 Mbit/s
95th percentile per-packet one-way delay: 5.010 ms
Loss rate: 0.08%

-- Flow 1:

Average throughput: 551.97 Mbit/s
95th percentile per-packet one-way delay: 5.807 ms
Loss rate: 0.04%

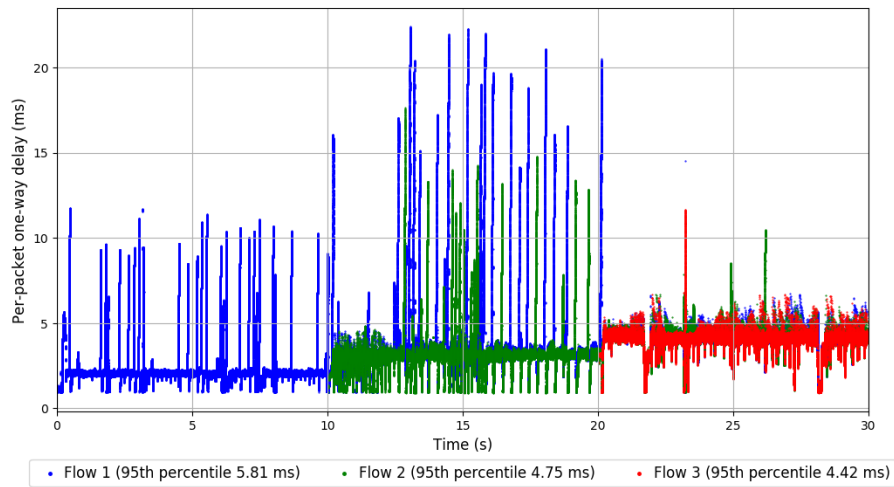
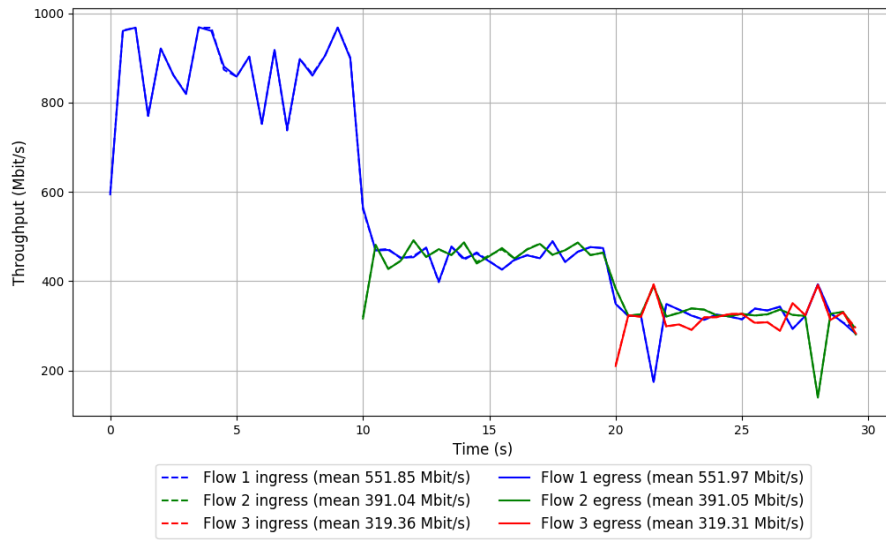
-- Flow 2:

Average throughput: 391.05 Mbit/s
95th percentile per-packet one-way delay: 4.749 ms
Loss rate: 0.10%

-- Flow 3:

Average throughput: 319.31 Mbit/s
95th percentile per-packet one-way delay: 4.423 ms
Loss rate: 0.23%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2017-12-20 08:06:12
End at: 2017-12-20 08:06:42
Local clock offset: 1.241 ms
Remote clock offset: -0.491 ms

Below is generated by plot.py at 2017-12-20 12:51:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 916.81 Mbit/s
95th percentile per-packet one-way delay: 5.939 ms
Loss rate: 0.08%

-- Flow 1:

Average throughput: 552.19 Mbit/s
95th percentile per-packet one-way delay: 6.098 ms
Loss rate: 0.05%

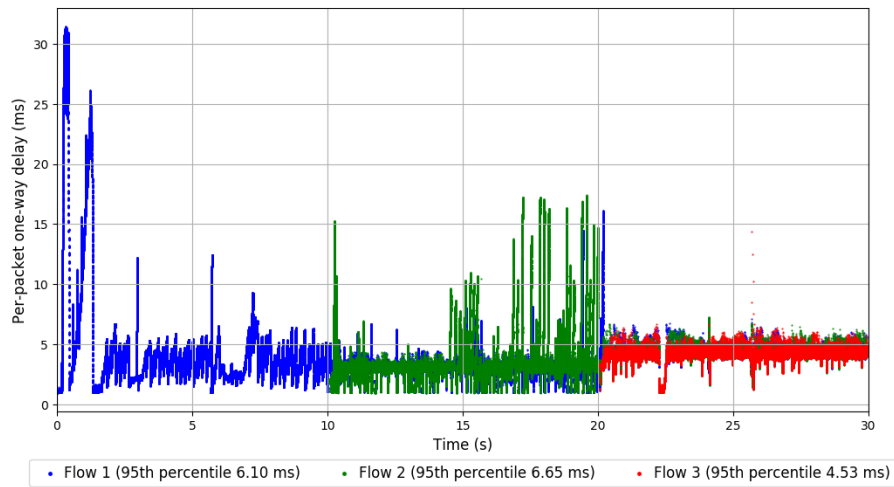
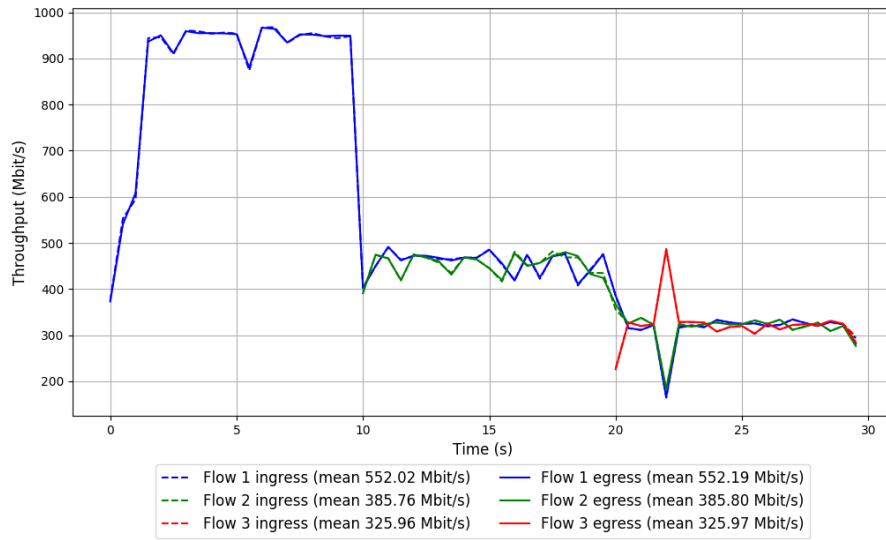
-- Flow 2:

Average throughput: 385.80 Mbit/s
95th percentile per-packet one-way delay: 6.646 ms
Loss rate: 0.10%

-- Flow 3:

Average throughput: 325.97 Mbit/s
95th percentile per-packet one-way delay: 4.533 ms
Loss rate: 0.24%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2017-12-20 08:28:29
End at: 2017-12-20 08:28:59
Local clock offset: 1.146 ms
Remote clock offset: -0.618 ms

Below is generated by plot.py at 2017-12-20 12:51:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 934.77 Mbit/s
95th percentile per-packet one-way delay: 7.472 ms
Loss rate: 0.08%

-- Flow 1:

Average throughput: 566.03 Mbit/s
95th percentile per-packet one-way delay: 7.898 ms
Loss rate: 0.04%

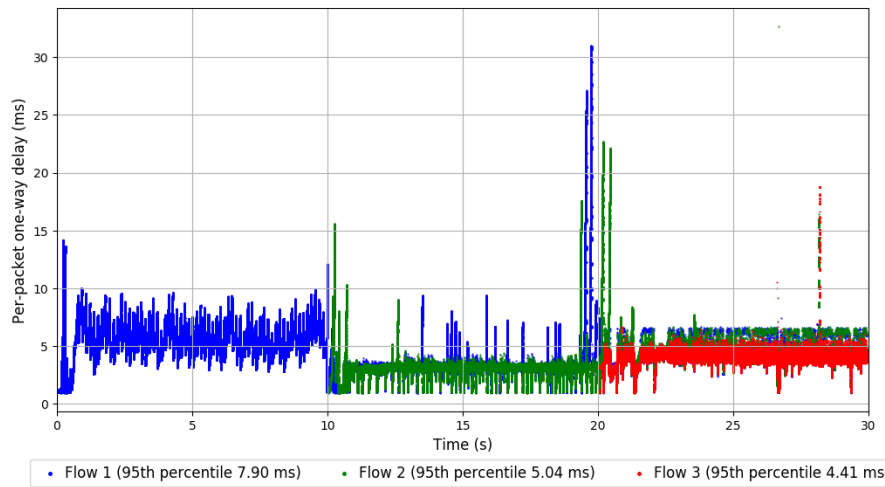
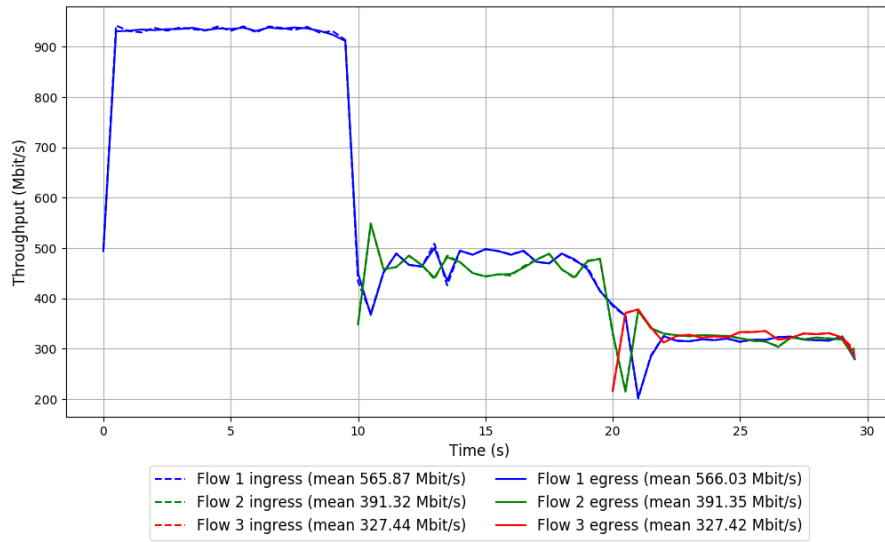
-- Flow 2:

Average throughput: 391.35 Mbit/s
95th percentile per-packet one-way delay: 5.037 ms
Loss rate: 0.10%

-- Flow 3:

Average throughput: 327.42 Mbit/s
95th percentile per-packet one-way delay: 4.413 ms
Loss rate: 0.23%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2017-12-20 05:11:17
End at: 2017-12-20 05:11:47
Local clock offset: 0.082 ms
Remote clock offset: -2.409 ms

Below is generated by plot.py at 2017-12-20 12:51:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 818.99 Mbit/s
95th percentile per-packet one-way delay: 4.412 ms
Loss rate: 0.09%

-- Flow 1:

Average throughput: 449.58 Mbit/s
95th percentile per-packet one-way delay: 4.392 ms
Loss rate: 0.06%

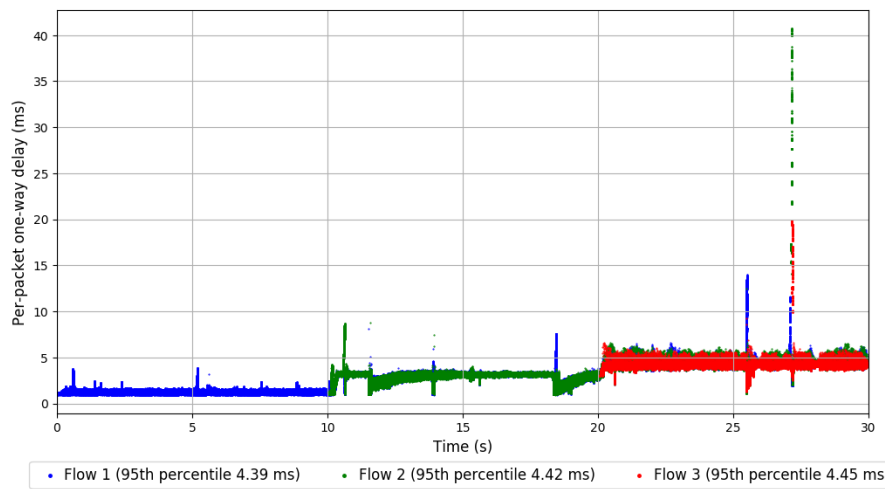
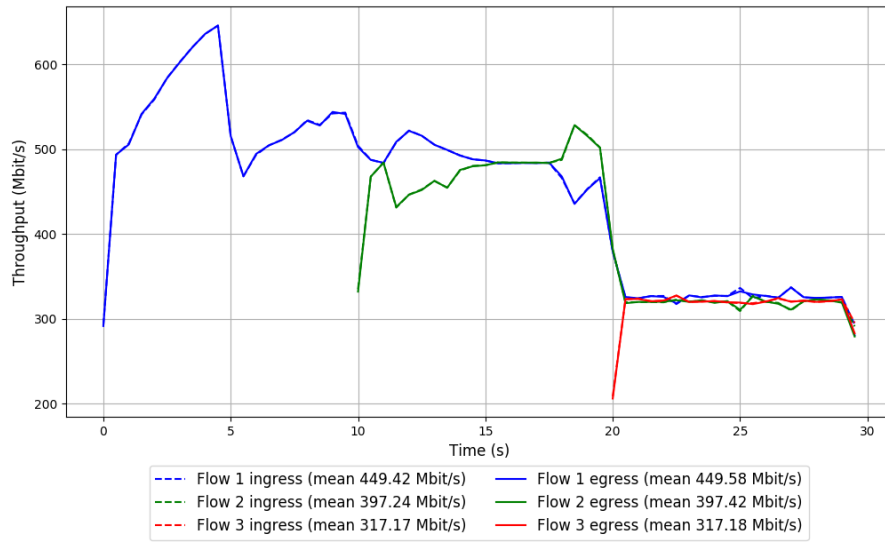
-- Flow 2:

Average throughput: 397.42 Mbit/s
95th percentile per-packet one-way delay: 4.415 ms
Loss rate: 0.10%

-- Flow 3:

Average throughput: 317.18 Mbit/s
95th percentile per-packet one-way delay: 4.449 ms
Loss rate: 0.24%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2017-12-20 05:33:28
End at: 2017-12-20 05:33:58
Local clock offset: 0.257 ms
Remote clock offset: -1.811 ms

Below is generated by plot.py at 2017-12-20 12:51:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 813.11 Mbit/s
95th percentile per-packet one-way delay: 4.529 ms
Loss rate: 0.09%

-- Flow 1:

Average throughput: 437.37 Mbit/s
95th percentile per-packet one-way delay: 4.500 ms
Loss rate: 0.06%

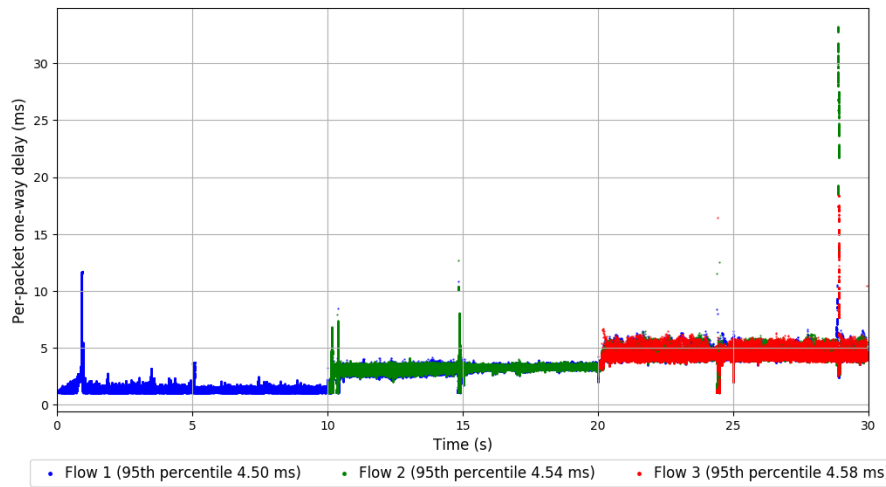
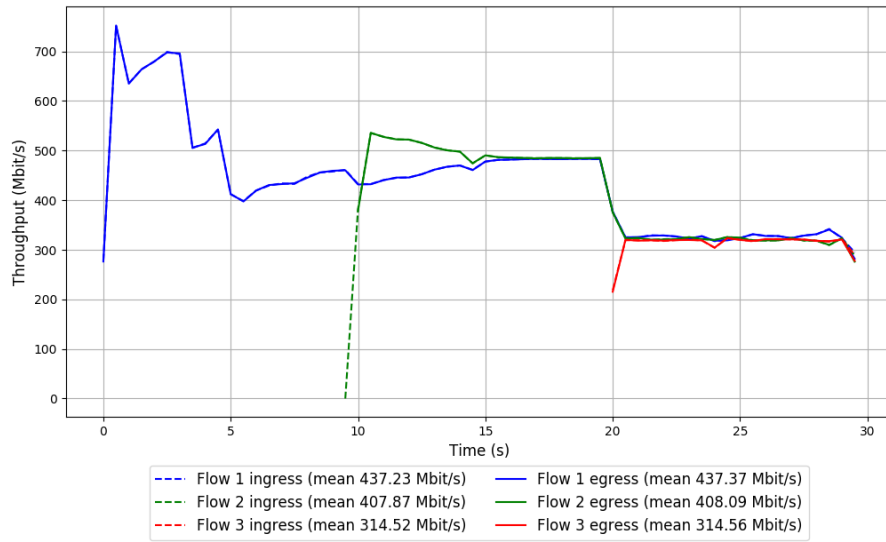
-- Flow 2:

Average throughput: 408.09 Mbit/s
95th percentile per-packet one-way delay: 4.538 ms
Loss rate: 0.09%

-- Flow 3:

Average throughput: 314.56 Mbit/s
95th percentile per-packet one-way delay: 4.577 ms
Loss rate: 0.23%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2017-12-20 05:55:44
End at: 2017-12-20 05:56:14
Local clock offset: 0.301 ms
Remote clock offset: -1.272 ms

Below is generated by plot.py at 2017-12-20 12:52:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 868.35 Mbit/s
95th percentile per-packet one-way delay: 17.105 ms
Loss rate: 0.14%

-- Flow 1:

Average throughput: 498.85 Mbit/s
95th percentile per-packet one-way delay: 17.443 ms
Loss rate: 0.09%

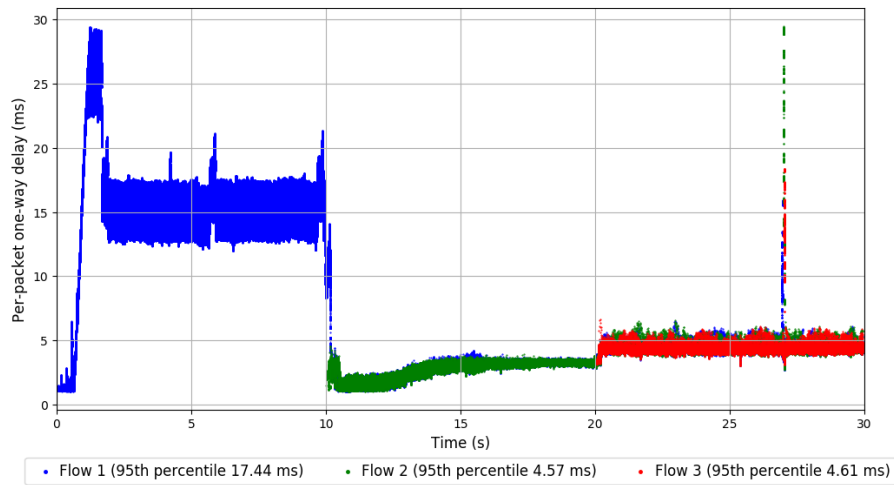
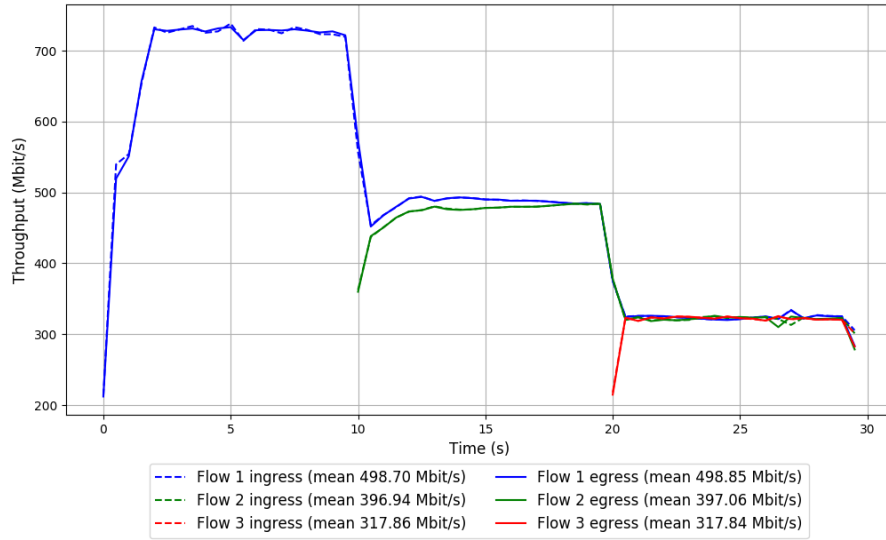
-- Flow 2:

Average throughput: 397.06 Mbit/s
95th percentile per-packet one-way delay: 4.569 ms
Loss rate: 0.16%

-- Flow 3:

Average throughput: 317.84 Mbit/s
95th percentile per-packet one-way delay: 4.613 ms
Loss rate: 0.34%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2017-12-20 06:18:06
End at: 2017-12-20 06:18:36
Local clock offset: 0.197 ms
Remote clock offset: -0.946 ms

Below is generated by plot.py at 2017-12-20 12:52:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 894.58 Mbit/s
95th percentile per-packet one-way delay: 4.239 ms
Loss rate: 0.12%

-- Flow 1:

Average throughput: 521.11 Mbit/s
95th percentile per-packet one-way delay: 4.149 ms
Loss rate: 0.07%

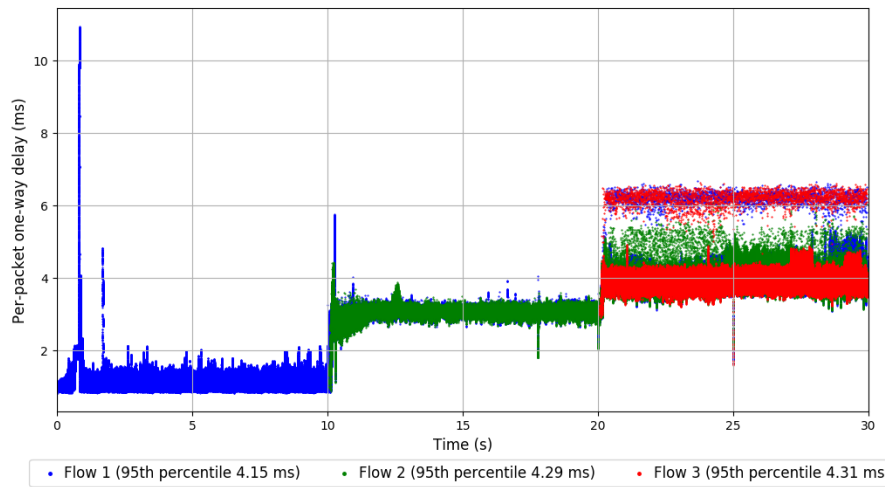
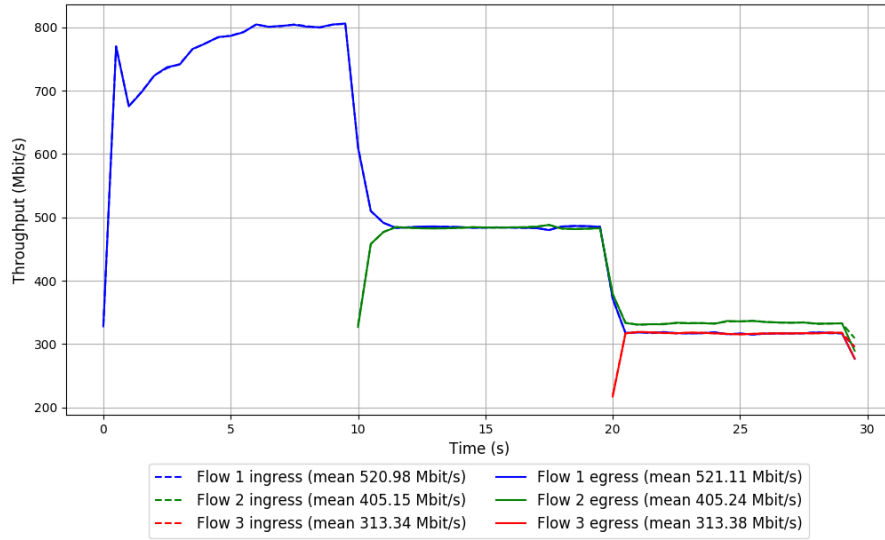
-- Flow 2:

Average throughput: 405.24 Mbit/s
95th percentile per-packet one-way delay: 4.293 ms
Loss rate: 0.14%

-- Flow 3:

Average throughput: 313.38 Mbit/s
95th percentile per-packet one-way delay: 4.306 ms
Loss rate: 0.34%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2017-12-20 06:40:23

End at: 2017-12-20 06:40:53

Local clock offset: 0.382 ms

Remote clock offset: -0.54 ms

Below is generated by plot.py at 2017-12-20 12:52:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 803.22 Mbit/s

95th percentile per-packet one-way delay: 5.795 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 426.34 Mbit/s

95th percentile per-packet one-way delay: 4.418 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 408.34 Mbit/s

95th percentile per-packet one-way delay: 14.765 ms

Loss rate: 0.09%

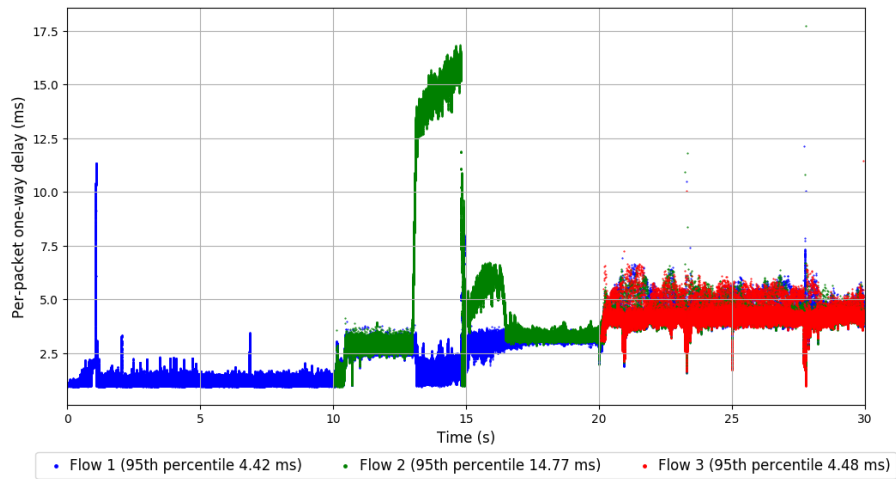
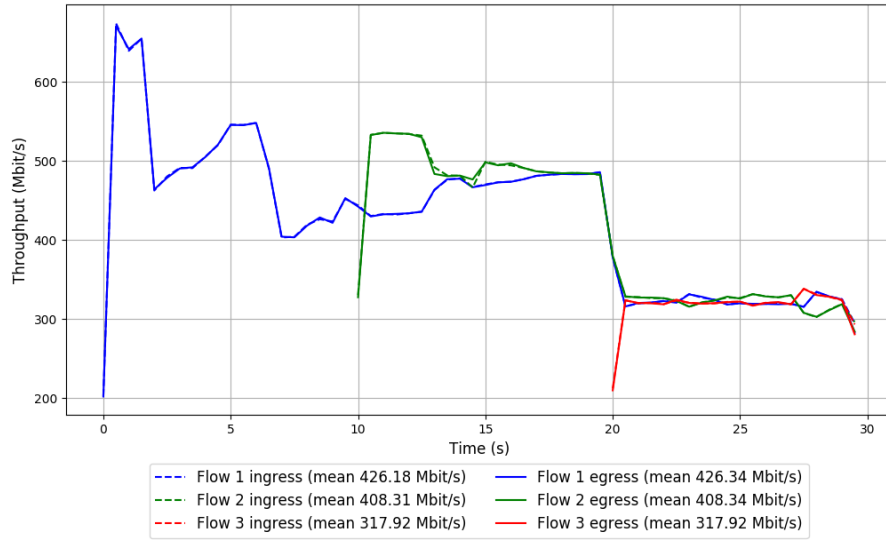
-- Flow 3:

Average throughput: 317.92 Mbit/s

95th percentile per-packet one-way delay: 4.482 ms

Loss rate: 0.23%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2017-12-20 07:02:36
End at: 2017-12-20 07:03:06
Local clock offset: 0.779 ms
Remote clock offset: -0.641 ms

Below is generated by plot.py at 2017-12-20 12:52:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 844.18 Mbit/s
95th percentile per-packet one-way delay: 10.636 ms
Loss rate: 0.09%

-- Flow 1:

Average throughput: 484.50 Mbit/s
95th percentile per-packet one-way delay: 9.358 ms
Loss rate: 0.05%

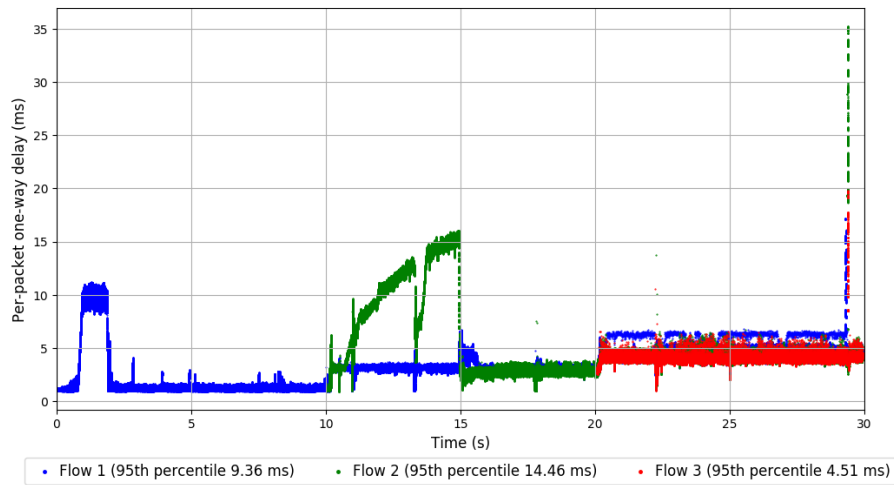
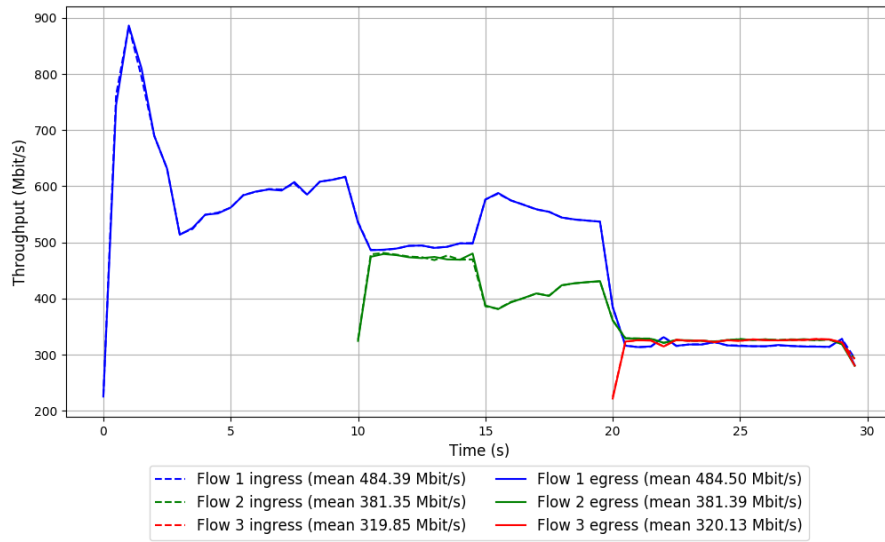
-- Flow 2:

Average throughput: 381.39 Mbit/s
95th percentile per-packet one-way delay: 14.458 ms
Loss rate: 0.10%

-- Flow 3:

Average throughput: 320.13 Mbit/s
95th percentile per-packet one-way delay: 4.513 ms
Loss rate: 0.22%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2017-12-20 07:24:59
End at: 2017-12-20 07:25:29
Local clock offset: 1.01 ms
Remote clock offset: -0.706 ms

Below is generated by plot.py at 2017-12-20 13:01:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 796.33 Mbit/s
95th percentile per-packet one-way delay: 4.628 ms
Loss rate: 0.14%

-- Flow 1:

Average throughput: 425.06 Mbit/s
95th percentile per-packet one-way delay: 4.533 ms
Loss rate: 0.09%

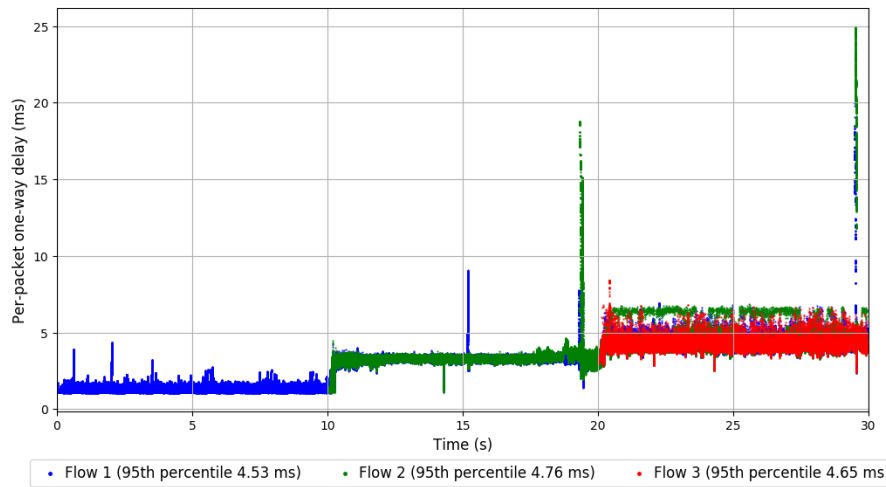
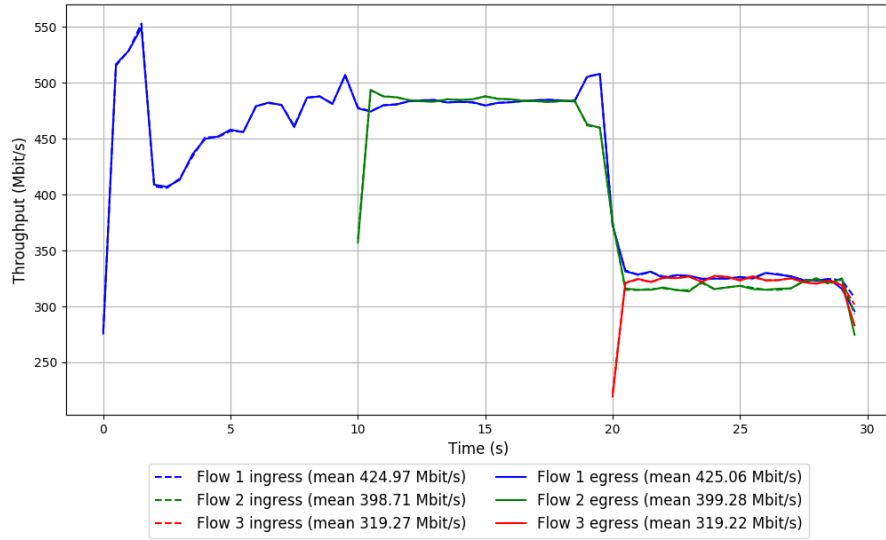
-- Flow 2:

Average throughput: 399.28 Mbit/s
95th percentile per-packet one-way delay: 4.761 ms
Loss rate: 0.13%

-- Flow 3:

Average throughput: 319.22 Mbit/s
95th percentile per-packet one-way delay: 4.648 ms
Loss rate: 0.35%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2017-12-20 07:47:13
End at: 2017-12-20 07:47:43
Local clock offset: 1.224 ms
Remote clock offset: -0.944 ms

Below is generated by plot.py at 2017-12-20 13:03:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 893.49 Mbit/s
95th percentile per-packet one-way delay: 4.622 ms
Loss rate: 0.08%

-- Flow 1:

Average throughput: 518.69 Mbit/s
95th percentile per-packet one-way delay: 4.485 ms
Loss rate: 0.05%

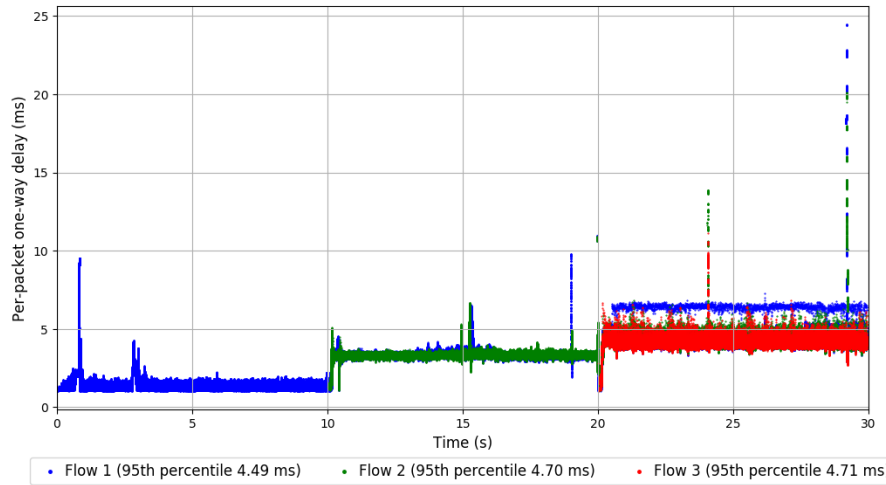
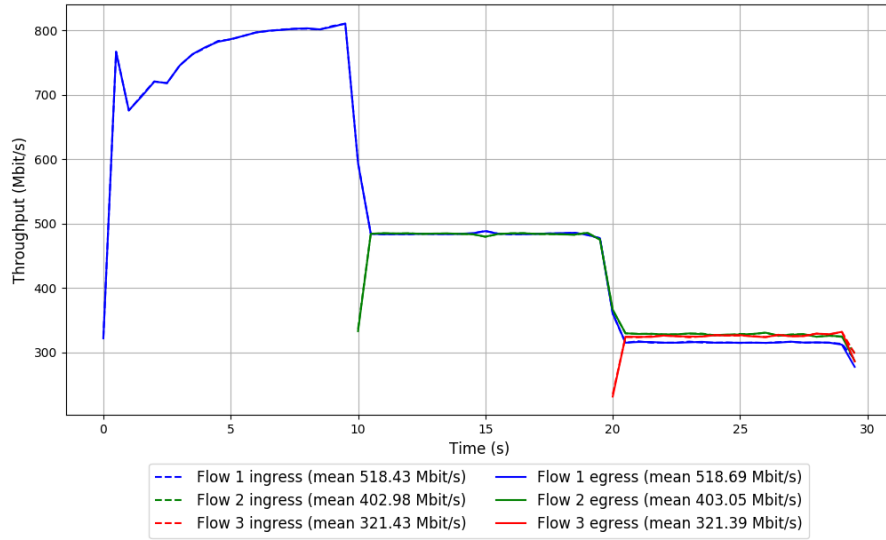
-- Flow 2:

Average throughput: 403.05 Mbit/s
95th percentile per-packet one-way delay: 4.703 ms
Loss rate: 0.10%

-- Flow 3:

Average throughput: 321.39 Mbit/s
95th percentile per-packet one-way delay: 4.705 ms
Loss rate: 0.23%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2017-12-20 08:09:29
End at: 2017-12-20 08:09:59
Local clock offset: 1.206 ms
Remote clock offset: -0.394 ms

Below is generated by plot.py at 2017-12-20 13:03:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 863.73 Mbit/s
95th percentile per-packet one-way delay: 4.443 ms
Loss rate: 0.09%

-- Flow 1:

Average throughput: 487.56 Mbit/s
95th percentile per-packet one-way delay: 4.386 ms
Loss rate: 0.05%

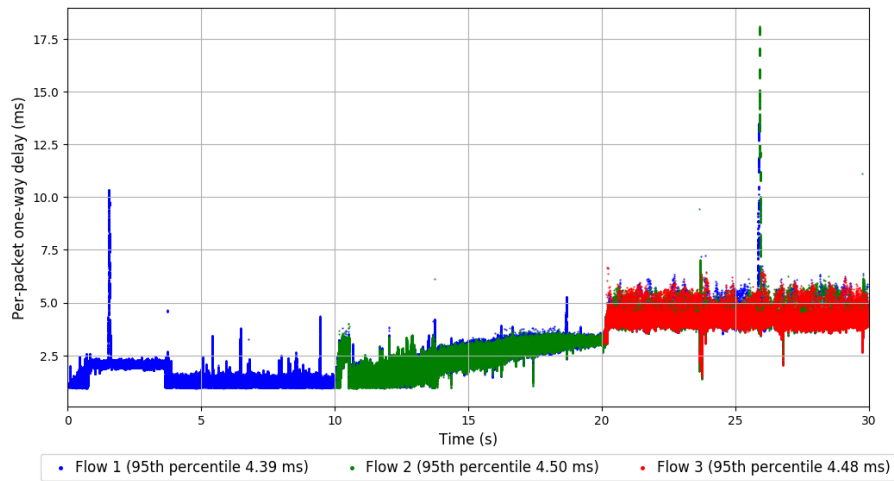
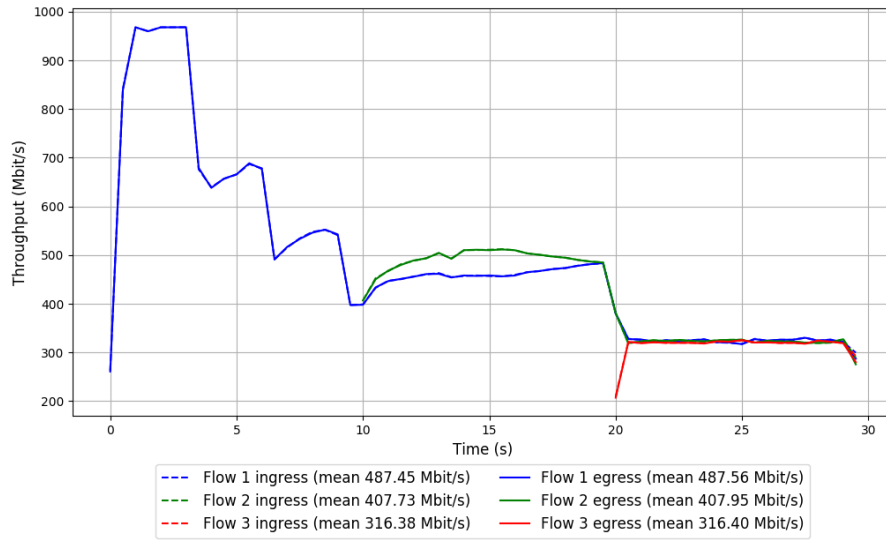
-- Flow 2:

Average throughput: 407.95 Mbit/s
95th percentile per-packet one-way delay: 4.499 ms
Loss rate: 0.10%

-- Flow 3:

Average throughput: 316.40 Mbit/s
95th percentile per-packet one-way delay: 4.477 ms
Loss rate: 0.24%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2017-12-20 08:31:46

End at: 2017-12-20 08:32:16

Local clock offset: 1.131 ms

Remote clock offset: -0.74 ms

Below is generated by plot.py at 2017-12-20 13:03:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 908.31 Mbit/s

95th percentile per-packet one-way delay: 4.513 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 544.84 Mbit/s

95th percentile per-packet one-way delay: 4.467 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 388.90 Mbit/s

95th percentile per-packet one-way delay: 4.569 ms

Loss rate: 0.10%

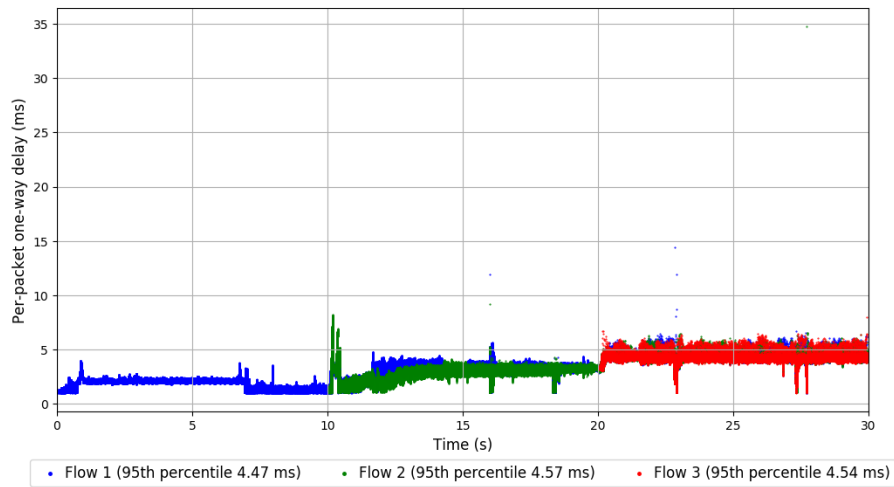
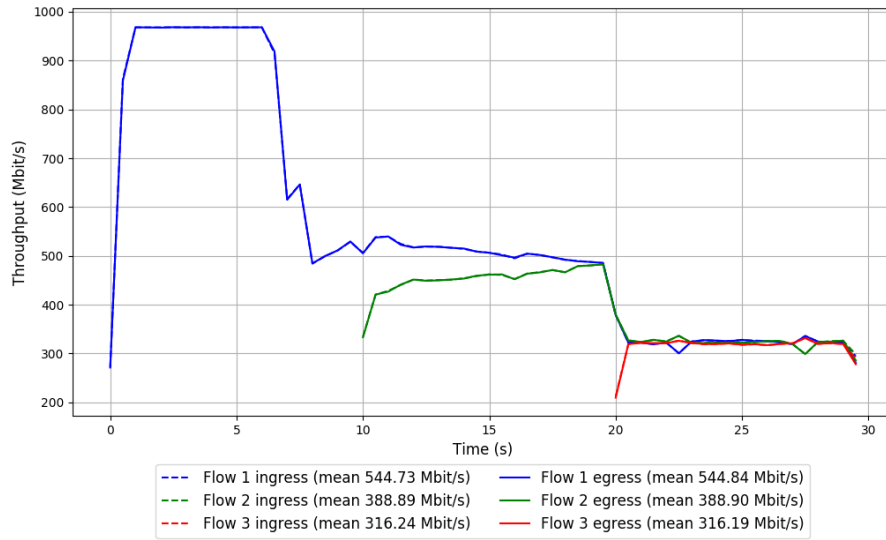
-- Flow 3:

Average throughput: 316.19 Mbit/s

95th percentile per-packet one-way delay: 4.535 ms

Loss rate: 0.23%

Run 10: Report of TCP Cubic — Data Link



Run 1: Statistics of LEDBAT

Start at: 2017-12-20 04:58:57
End at: 2017-12-20 04:59:27
Local clock offset: 0.079 ms
Remote clock offset: -2.722 ms

Below is generated by plot.py at 2017-12-20 13:03:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 524.72 Mbit/s
95th percentile per-packet one-way delay: 3.442 ms
Loss rate: 0.08%

-- Flow 1:

Average throughput: 308.22 Mbit/s
95th percentile per-packet one-way delay: 2.698 ms
Loss rate: 0.06%

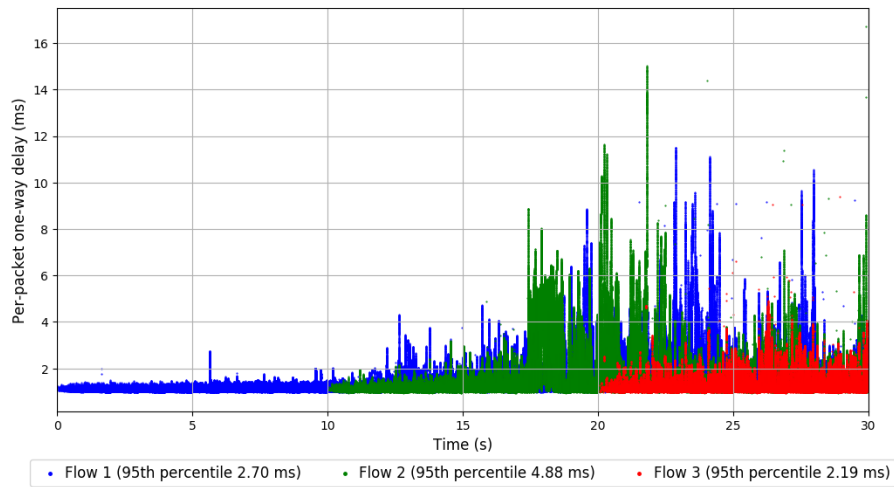
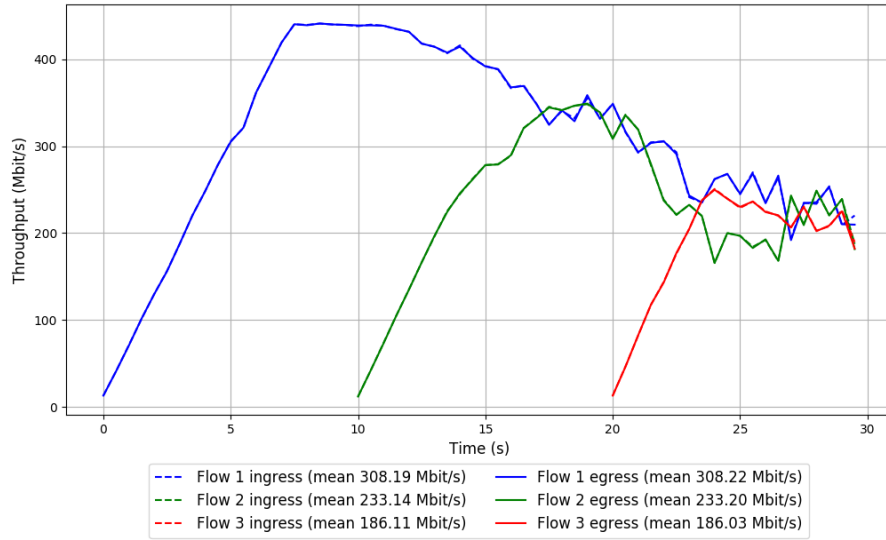
-- Flow 2:

Average throughput: 233.20 Mbit/s
95th percentile per-packet one-way delay: 4.882 ms
Loss rate: 0.07%

-- Flow 3:

Average throughput: 186.03 Mbit/s
95th percentile per-packet one-way delay: 2.190 ms
Loss rate: 0.24%

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2017-12-20 05:21:12
End at: 2017-12-20 05:21:42
Local clock offset: 0.076 ms
Remote clock offset: -2.177 ms

Below is generated by plot.py at 2017-12-20 13:03:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 512.32 Mbit/s
95th percentile per-packet one-way delay: 2.777 ms
Loss rate: 0.07%

-- Flow 1:

Average throughput: 303.40 Mbit/s
95th percentile per-packet one-way delay: 2.203 ms
Loss rate: 0.05%

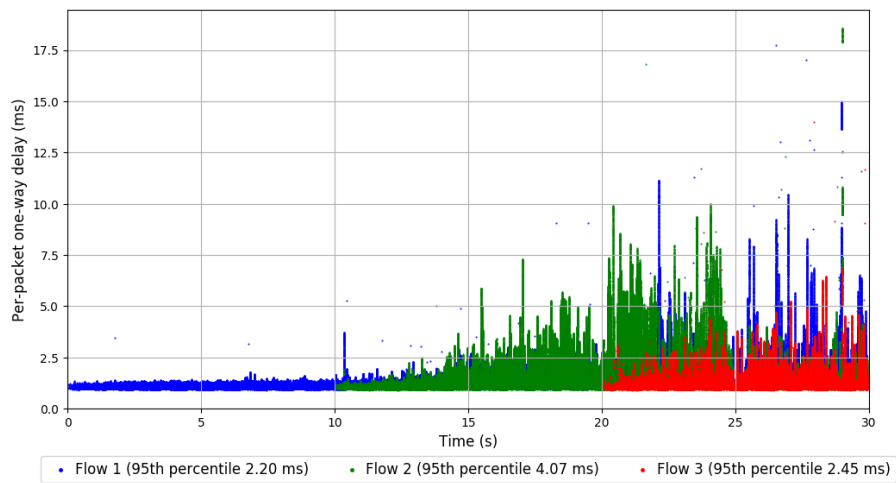
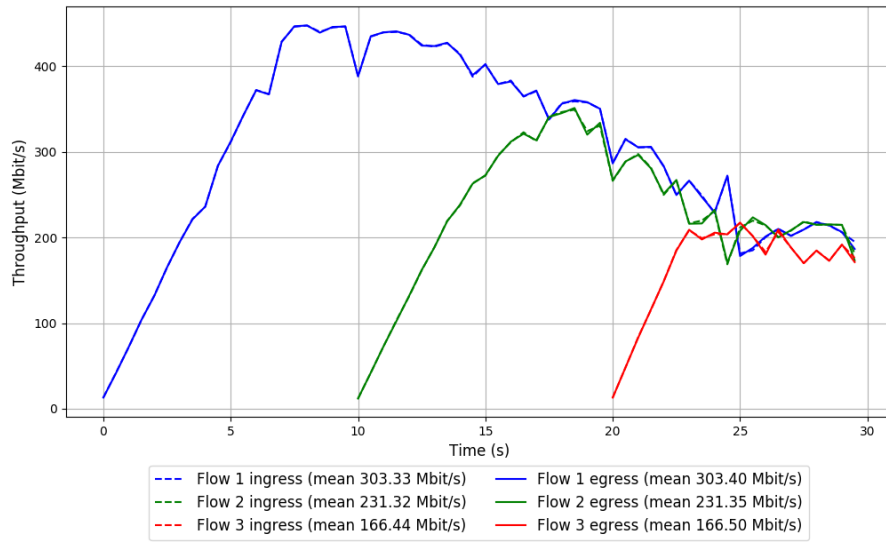
-- Flow 2:

Average throughput: 231.35 Mbit/s
95th percentile per-packet one-way delay: 4.067 ms
Loss rate: 0.09%

-- Flow 3:

Average throughput: 166.50 Mbit/s
95th percentile per-packet one-way delay: 2.451 ms
Loss rate: 0.16%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2017-12-20 05:43:21
End at: 2017-12-20 05:43:51
Local clock offset: 0.296 ms
Remote clock offset: -1.473 ms

Below is generated by plot.py at 2017-12-20 13:03:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 513.74 Mbit/s
95th percentile per-packet one-way delay: 4.698 ms
Loss rate: 0.09%

-- Flow 1:

Average throughput: 293.03 Mbit/s
95th percentile per-packet one-way delay: 4.632 ms
Loss rate: 0.05%

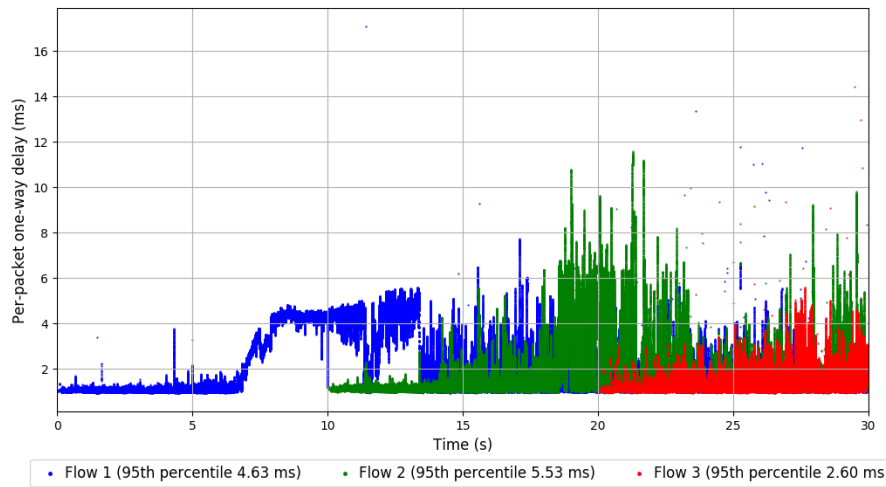
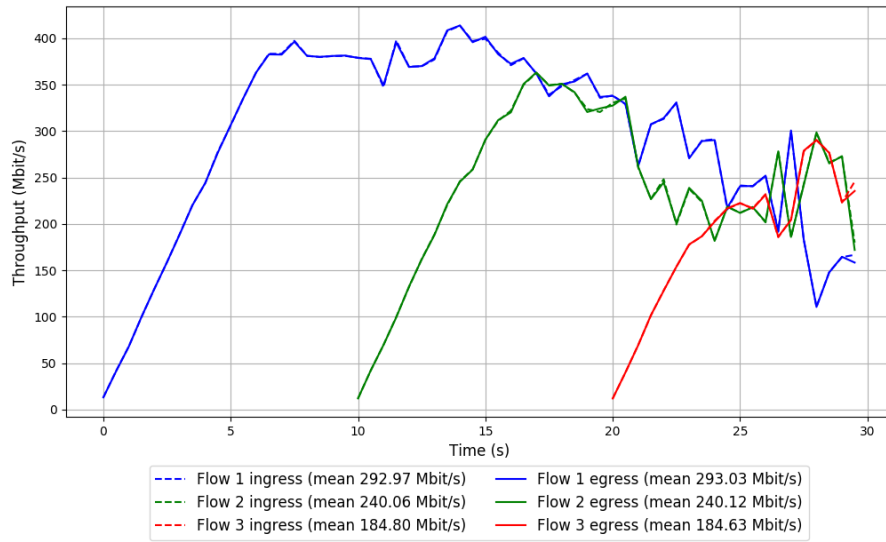
-- Flow 2:

Average throughput: 240.12 Mbit/s
95th percentile per-packet one-way delay: 5.532 ms
Loss rate: 0.09%

-- Flow 3:

Average throughput: 184.63 Mbit/s
95th percentile per-packet one-way delay: 2.597 ms
Loss rate: 0.29%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2017-12-20 06:05:43
End at: 2017-12-20 06:06:13
Local clock offset: 0.32 ms
Remote clock offset: -1.163 ms

Below is generated by plot.py at 2017-12-20 13:03:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 470.78 Mbit/s
95th percentile per-packet one-way delay: 3.746 ms
Loss rate: 0.09%

-- Flow 1:

Average throughput: 260.21 Mbit/s
95th percentile per-packet one-way delay: 4.699 ms
Loss rate: 0.06%

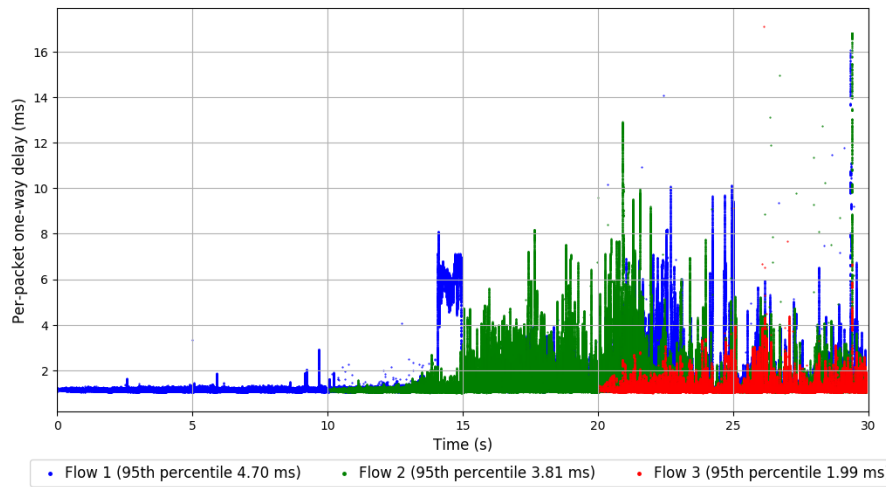
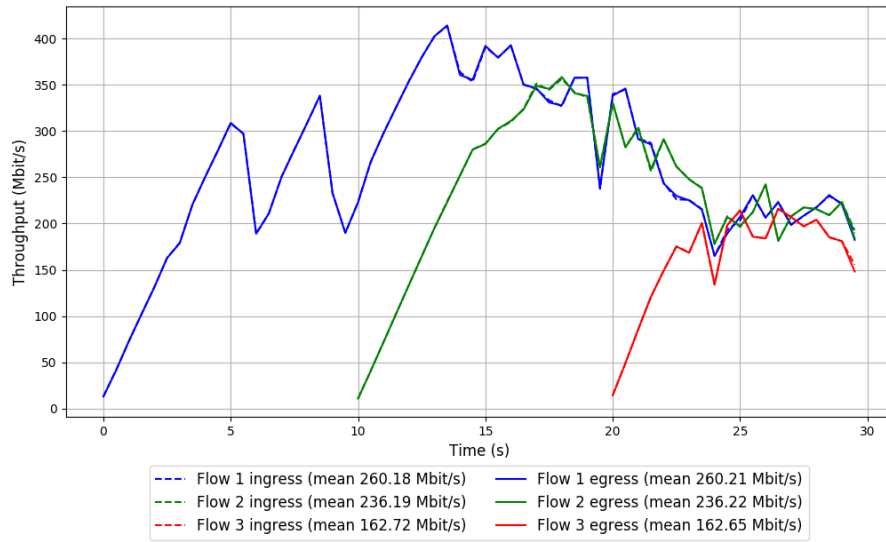
-- Flow 2:

Average throughput: 236.22 Mbit/s
95th percentile per-packet one-way delay: 3.807 ms
Loss rate: 0.09%

-- Flow 3:

Average throughput: 162.65 Mbit/s
95th percentile per-packet one-way delay: 1.986 ms
Loss rate: 0.24%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2017-12-20 06:28:01
End at: 2017-12-20 06:28:31
Local clock offset: 0.286 ms
Remote clock offset: -0.747 ms

Below is generated by plot.py at 2017-12-20 13:06:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 519.17 Mbit/s
95th percentile per-packet one-way delay: 3.573 ms
Loss rate: 0.08%

-- Flow 1:

Average throughput: 304.16 Mbit/s
95th percentile per-packet one-way delay: 2.090 ms
Loss rate: 0.05%

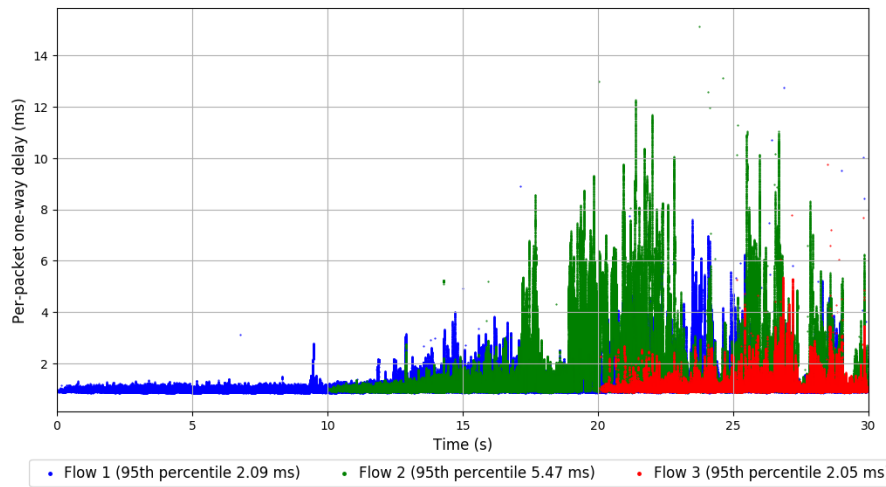
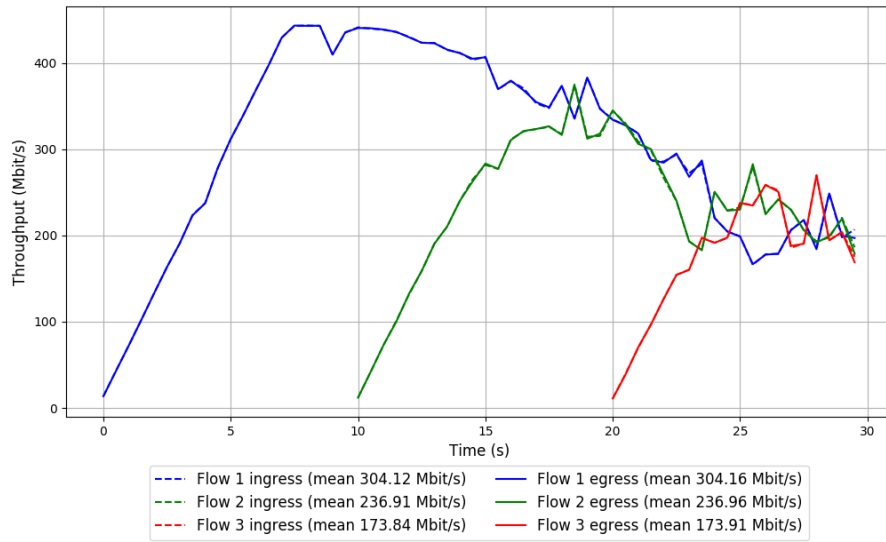
-- Flow 2:

Average throughput: 236.96 Mbit/s
95th percentile per-packet one-way delay: 5.466 ms
Loss rate: 0.09%

-- Flow 3:

Average throughput: 173.91 Mbit/s
95th percentile per-packet one-way delay: 2.049 ms
Loss rate: 0.19%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2017-12-20 06:50:20
End at: 2017-12-20 06:50:51
Local clock offset: 0.622 ms
Remote clock offset: -0.602 ms

Below is generated by plot.py at 2017-12-20 13:06:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 521.76 Mbit/s
95th percentile per-packet one-way delay: 3.769 ms
Loss rate: 0.09%

-- Flow 1:

Average throughput: 296.98 Mbit/s
95th percentile per-packet one-way delay: 4.625 ms
Loss rate: 0.03%

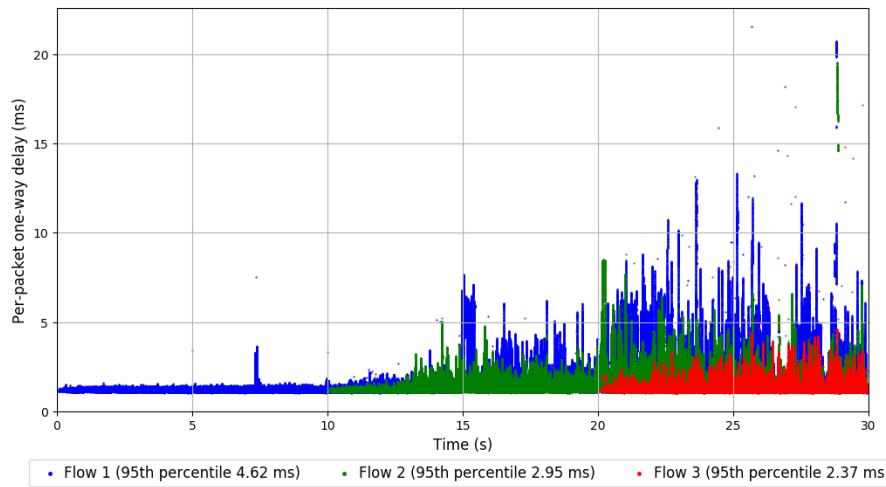
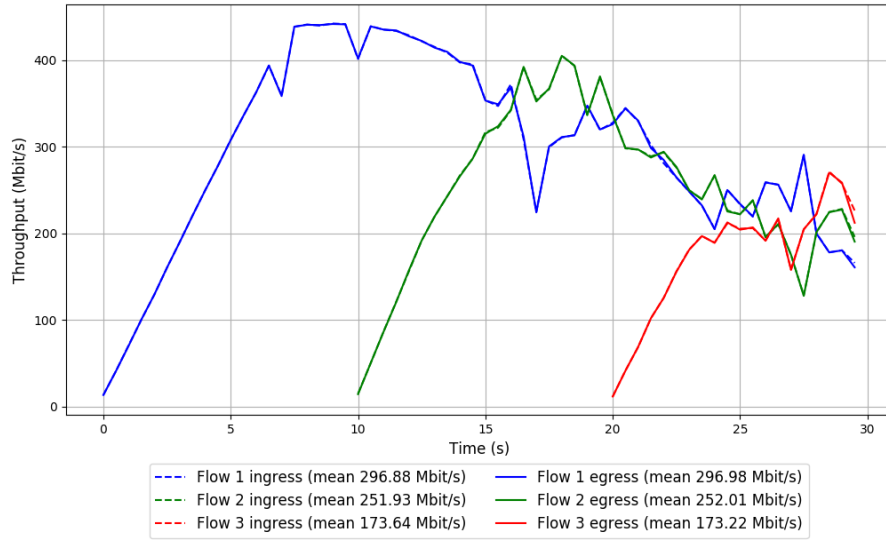
-- Flow 2:

Average throughput: 252.01 Mbit/s
95th percentile per-packet one-way delay: 2.953 ms
Loss rate: 0.07%

-- Flow 3:

Average throughput: 173.22 Mbit/s
95th percentile per-packet one-way delay: 2.370 ms
Loss rate: 0.43%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2017-12-20 07:12:33
End at: 2017-12-20 07:13:03
Local clock offset: 0.949 ms
Remote clock offset: -0.688 ms

Below is generated by plot.py at 2017-12-20 13:06:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 516.41 Mbit/s
95th percentile per-packet one-way delay: 3.789 ms
Loss rate: 0.08%

-- Flow 1:

Average throughput: 302.07 Mbit/s
95th percentile per-packet one-way delay: 3.253 ms
Loss rate: 0.03%

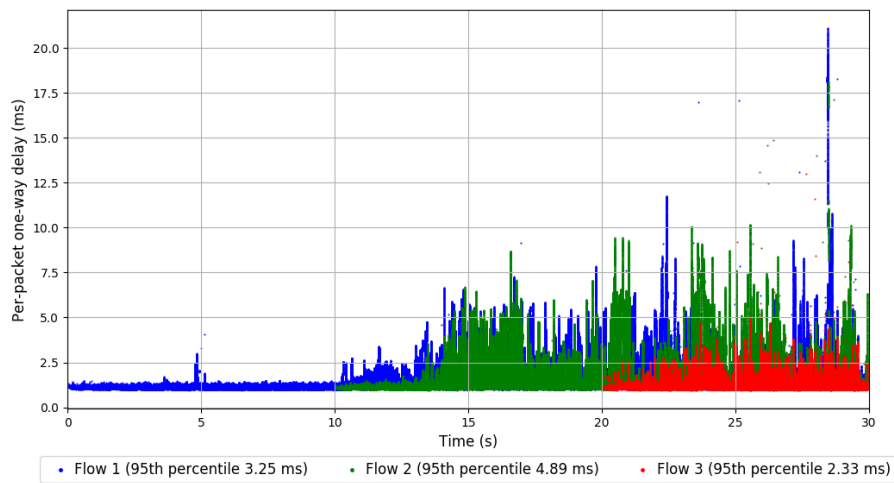
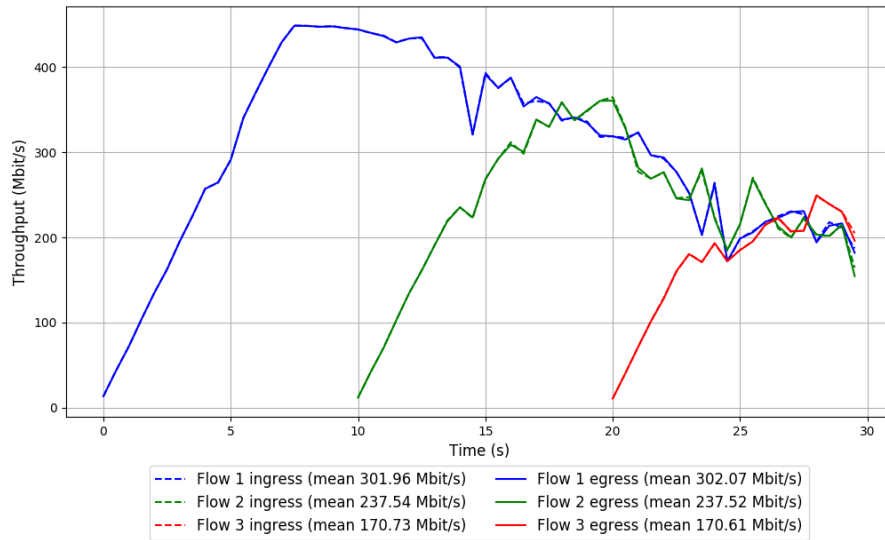
-- Flow 2:

Average throughput: 237.52 Mbit/s
95th percentile per-packet one-way delay: 4.886 ms
Loss rate: 0.11%

-- Flow 3:

Average throughput: 170.61 Mbit/s
95th percentile per-packet one-way delay: 2.327 ms
Loss rate: 0.27%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2017-12-20 07:34:48

End at: 2017-12-20 07:35:18

Local clock offset: 1.031 ms

Remote clock offset: -0.86 ms

Below is generated by plot.py at 2017-12-20 13:06:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 519.28 Mbit/s

95th percentile per-packet one-way delay: 2.504 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 302.67 Mbit/s

95th percentile per-packet one-way delay: 2.219 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 240.93 Mbit/s

95th percentile per-packet one-way delay: 3.664 ms

Loss rate: 0.04%

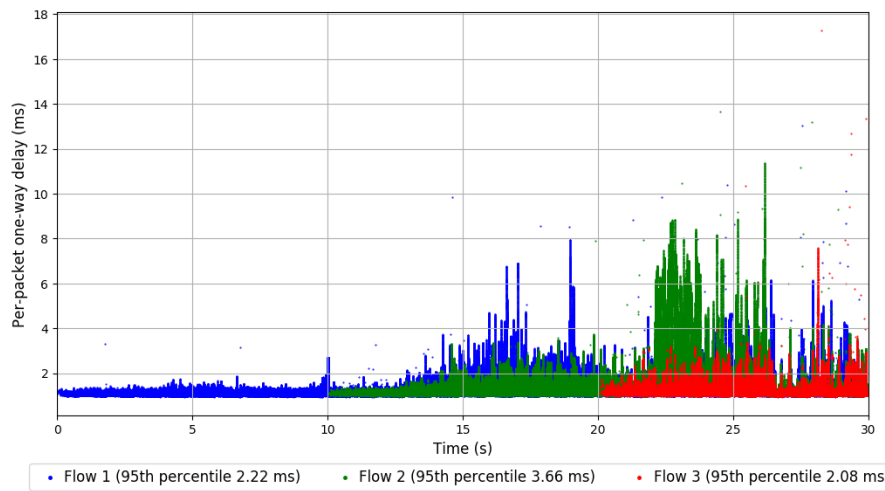
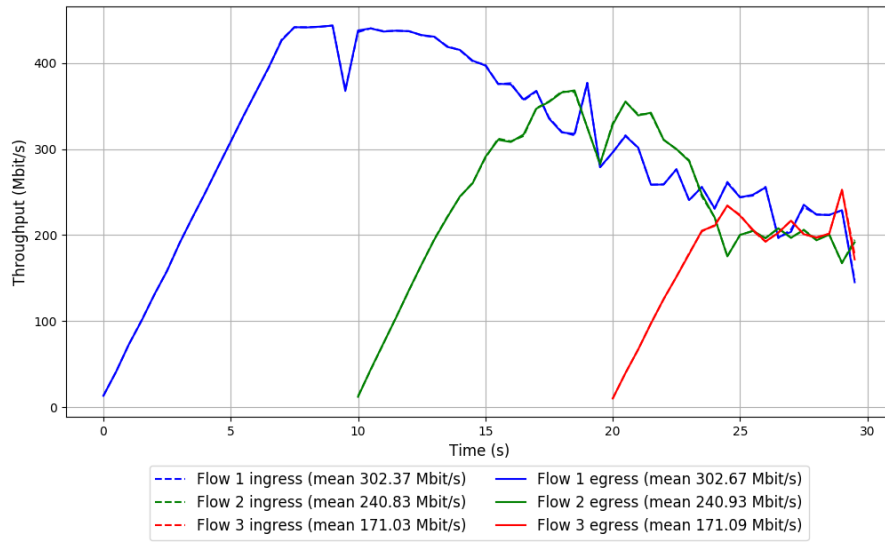
-- Flow 3:

Average throughput: 171.09 Mbit/s

95th percentile per-packet one-way delay: 2.083 ms

Loss rate: 0.17%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2017-12-20 07:57:02
End at: 2017-12-20 07:57:32
Local clock offset: 1.169 ms
Remote clock offset: -0.771 ms

Below is generated by plot.py at 2017-12-20 13:09:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 521.34 Mbit/s
95th percentile per-packet one-way delay: 2.828 ms
Loss rate: 0.11%

-- Flow 1:

Average throughput: 303.03 Mbit/s
95th percentile per-packet one-way delay: 2.875 ms
Loss rate: 0.05%

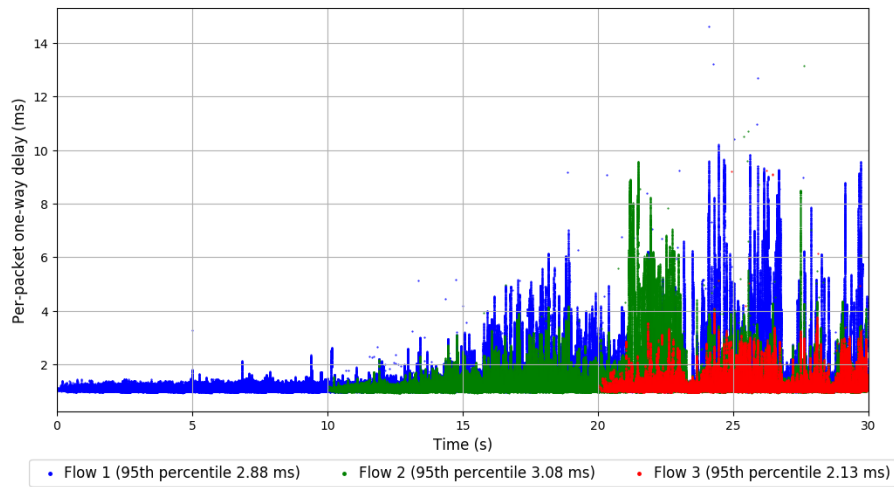
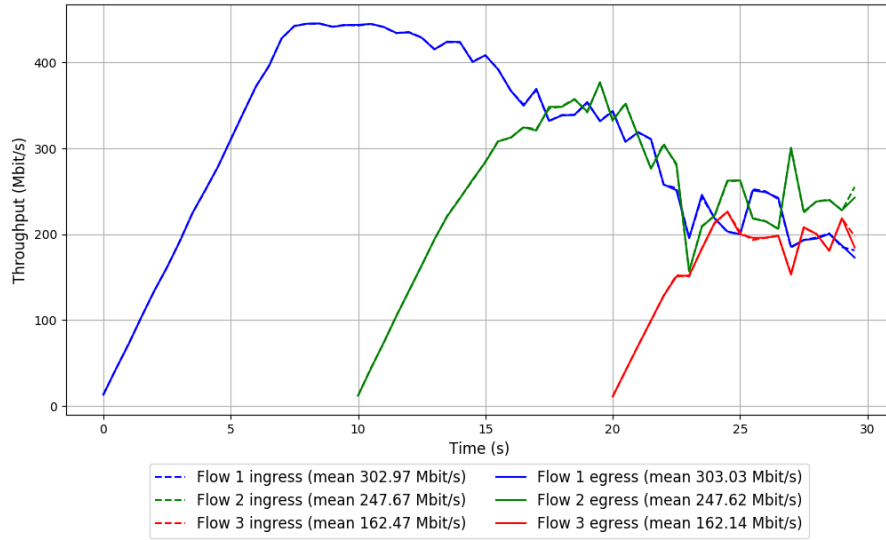
-- Flow 2:

Average throughput: 247.62 Mbit/s
95th percentile per-packet one-way delay: 3.075 ms
Loss rate: 0.13%

-- Flow 3:

Average throughput: 162.14 Mbit/s
95th percentile per-packet one-way delay: 2.135 ms
Loss rate: 0.41%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2017-12-20 08:19:20
End at: 2017-12-20 08:19:50
Local clock offset: 1.194 ms
Remote clock offset: -0.483 ms

Below is generated by plot.py at 2017-12-20 13:09:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 520.50 Mbit/s
95th percentile per-packet one-way delay: 3.054 ms
Loss rate: 0.08%

-- Flow 1:

Average throughput: 299.64 Mbit/s
95th percentile per-packet one-way delay: 2.546 ms
Loss rate: 0.05%

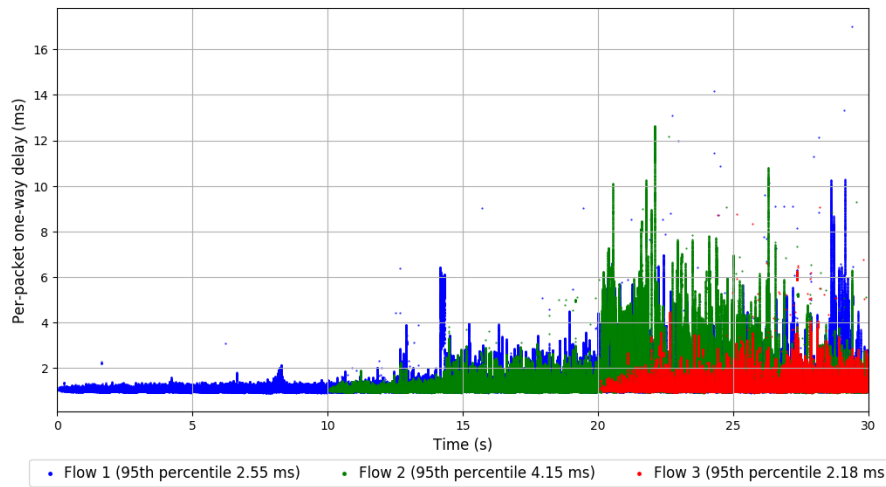
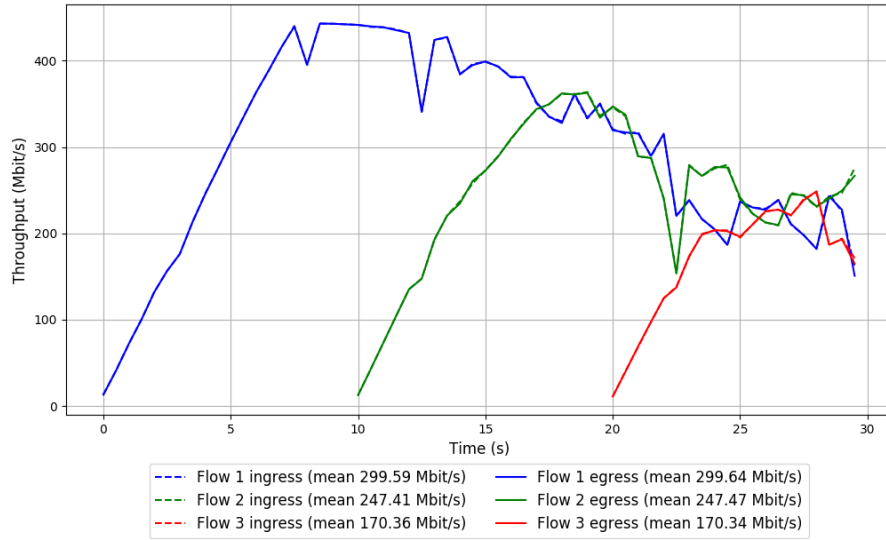
-- Flow 2:

Average throughput: 247.47 Mbit/s
95th percentile per-packet one-way delay: 4.153 ms
Loss rate: 0.09%

-- Flow 3:

Average throughput: 170.34 Mbit/s
95th percentile per-packet one-way delay: 2.180 ms
Loss rate: 0.21%

Run 10: Report of LEDBAT — Data Link



Run 1: Statistics of PCC

Start at: 2017-12-20 05:01:59
End at: 2017-12-20 05:02:29
Local clock offset: 0.08 ms
Remote clock offset: -2.683 ms

Below is generated by plot.py at 2017-12-20 13:12:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 724.26 Mbit/s
95th percentile per-packet one-way delay: 3.833 ms
Loss rate: 0.06%

-- Flow 1:

Average throughput: 580.28 Mbit/s
95th percentile per-packet one-way delay: 4.144 ms
Loss rate: 0.02%

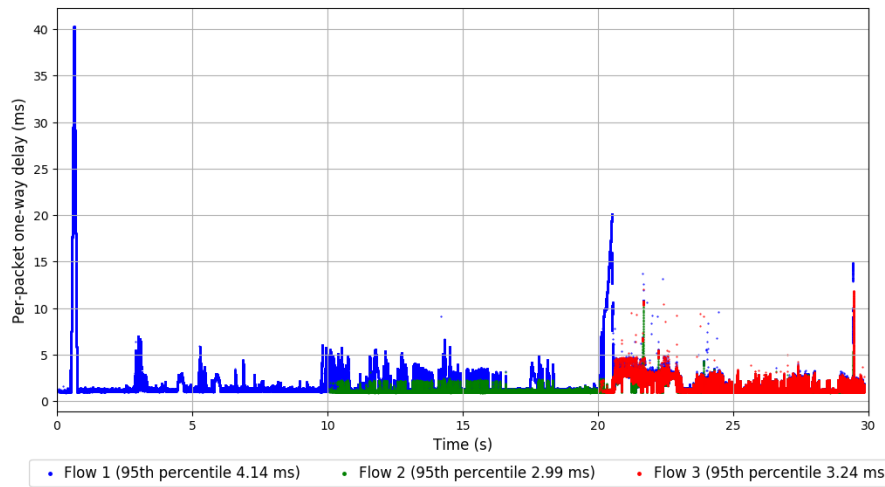
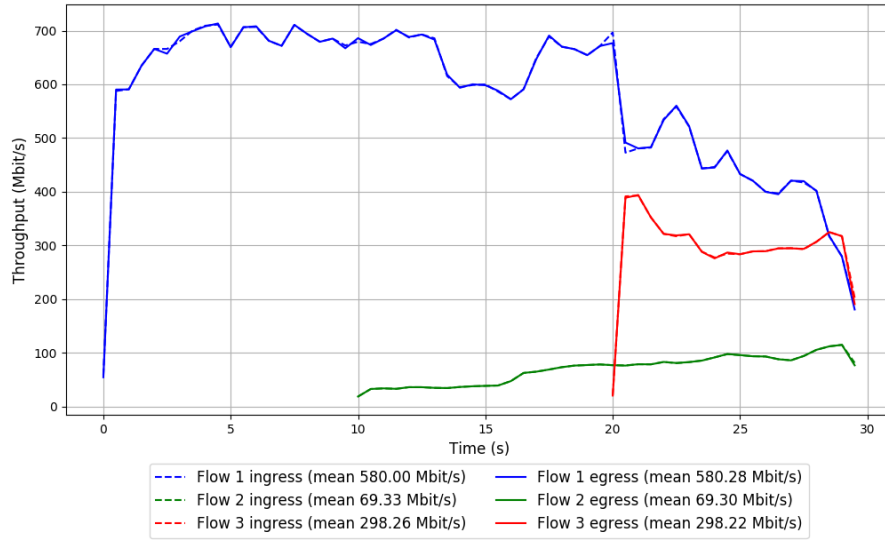
-- Flow 2:

Average throughput: 69.30 Mbit/s
95th percentile per-packet one-way delay: 2.987 ms
Loss rate: 0.18%

-- Flow 3:

Average throughput: 298.22 Mbit/s
95th percentile per-packet one-way delay: 3.242 ms
Loss rate: 0.21%

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2017-12-20 05:24:11
End at: 2017-12-20 05:24:41
Local clock offset: 0.224 ms
Remote clock offset: -1.975 ms

Below is generated by plot.py at 2017-12-20 13:15:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 885.49 Mbit/s
95th percentile per-packet one-way delay: 3.266 ms
Loss rate: 0.06%

-- Flow 1:

Average throughput: 563.42 Mbit/s
95th percentile per-packet one-way delay: 3.163 ms
Loss rate: 0.02%

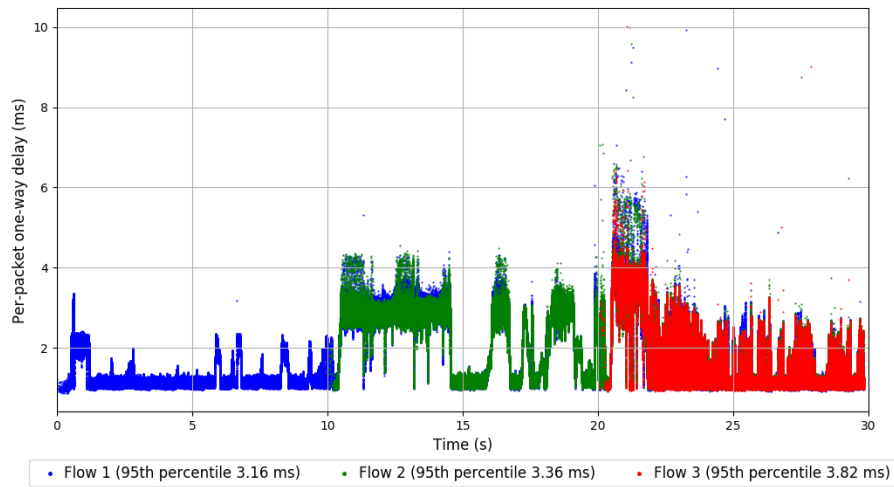
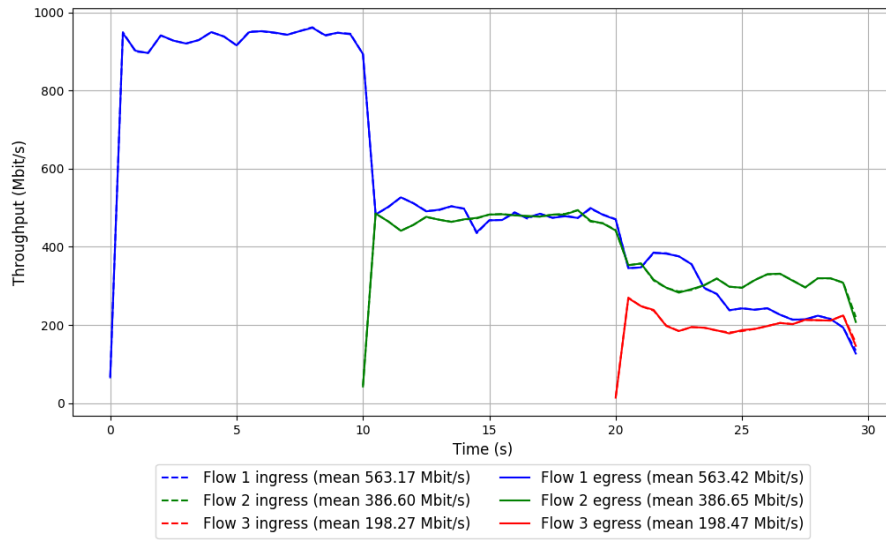
-- Flow 2:

Average throughput: 386.65 Mbit/s
95th percentile per-packet one-way delay: 3.359 ms
Loss rate: 0.09%

-- Flow 3:

Average throughput: 198.47 Mbit/s
95th percentile per-packet one-way delay: 3.820 ms
Loss rate: 0.22%

Run 2: Report of PCC — Data Link

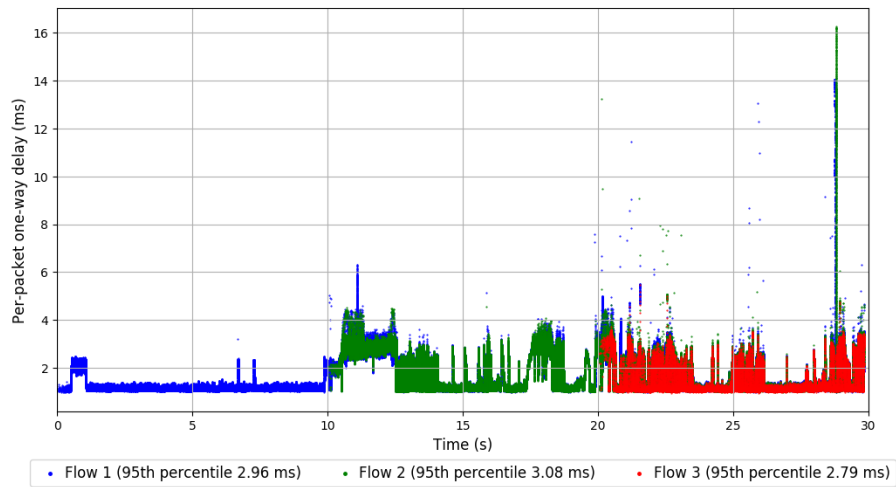
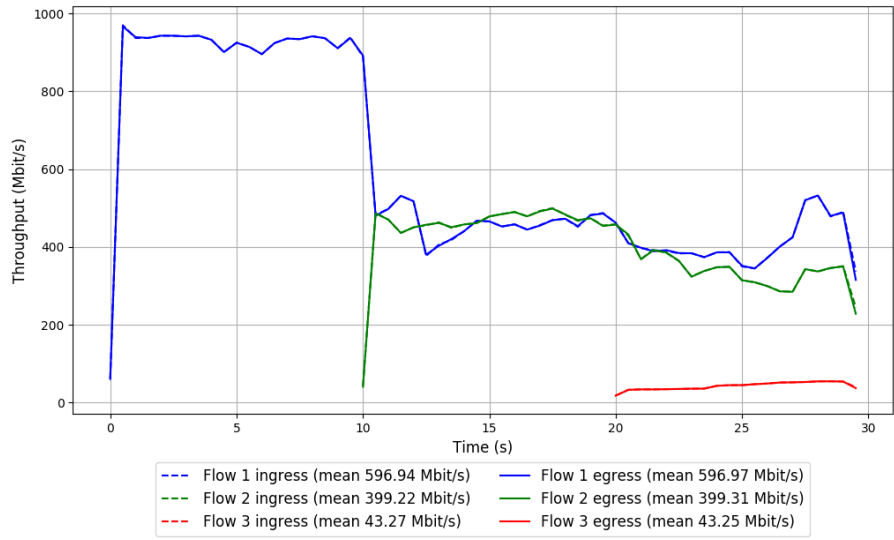


Run 3: Statistics of PCC

Start at: 2017-12-20 05:46:24
End at: 2017-12-20 05:46:54
Local clock offset: 0.338 ms
Remote clock offset: -1.437 ms

```
# Below is generated by plot.py at 2017-12-20 13:18:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 876.52 Mbit/s
95th percentile per-packet one-way delay: 3.018 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 596.97 Mbit/s
95th percentile per-packet one-way delay: 2.963 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 399.31 Mbit/s
95th percentile per-packet one-way delay: 3.085 ms
Loss rate: 0.11%
-- Flow 3:
Average throughput: 43.25 Mbit/s
95th percentile per-packet one-way delay: 2.792 ms
Loss rate: 0.29%
```

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2017-12-20 06:08:44
End at: 2017-12-20 06:09:14
Local clock offset: 0.213 ms
Remote clock offset: -1.138 ms

Below is generated by plot.py at 2017-12-20 13:18:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 875.69 Mbit/s
95th percentile per-packet one-way delay: 3.544 ms
Loss rate: 0.05%

-- Flow 1:

Average throughput: 560.03 Mbit/s
95th percentile per-packet one-way delay: 3.297 ms
Loss rate: 0.01%

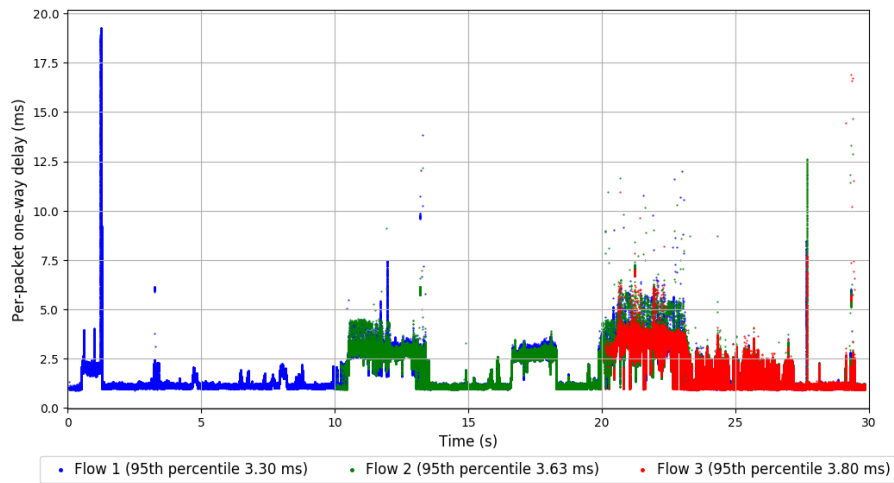
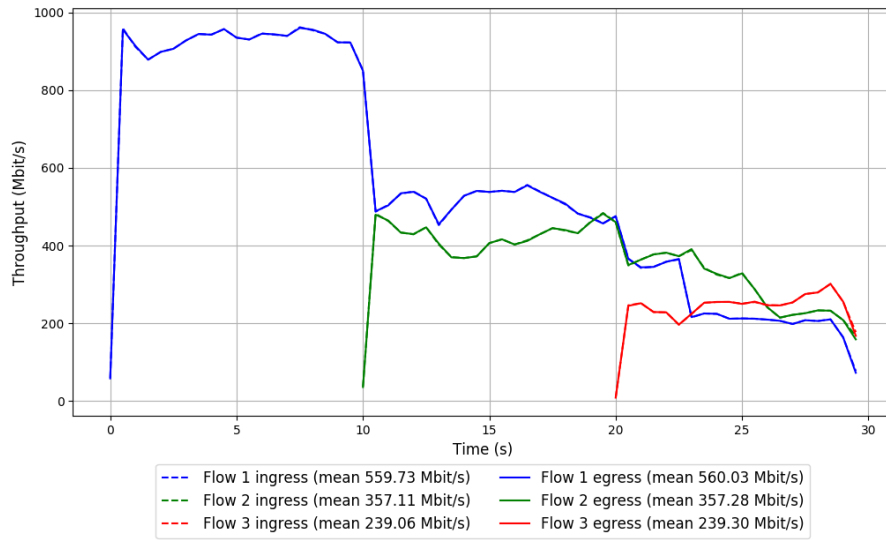
-- Flow 2:

Average throughput: 357.28 Mbit/s
95th percentile per-packet one-way delay: 3.630 ms
Loss rate: 0.07%

-- Flow 3:

Average throughput: 239.30 Mbit/s
95th percentile per-packet one-way delay: 3.798 ms
Loss rate: 0.21%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2017-12-20 06:31:02
End at: 2017-12-20 06:31:32
Local clock offset: 0.311 ms
Remote clock offset: -0.771 ms

Below is generated by plot.py at 2017-12-20 13:18:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 831.98 Mbit/s
95th percentile per-packet one-way delay: 2.266 ms
Loss rate: 0.06%

-- Flow 1:

Average throughput: 675.33 Mbit/s
95th percentile per-packet one-way delay: 2.209 ms
Loss rate: 0.02%

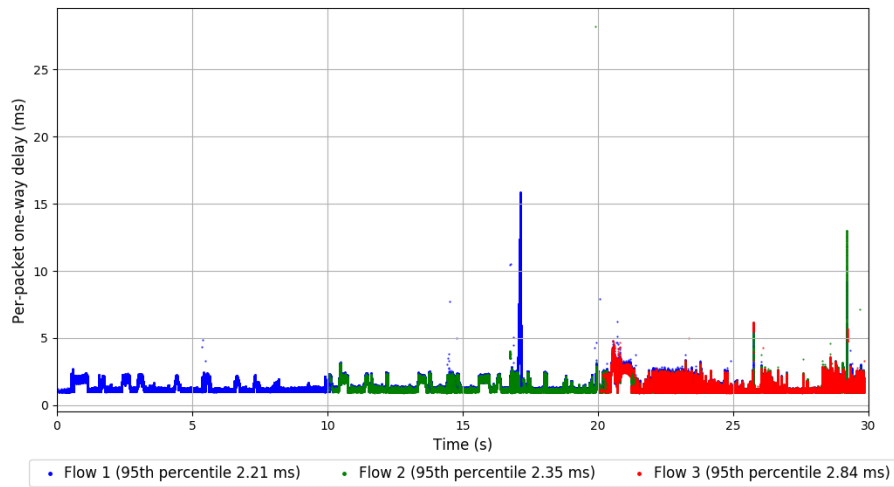
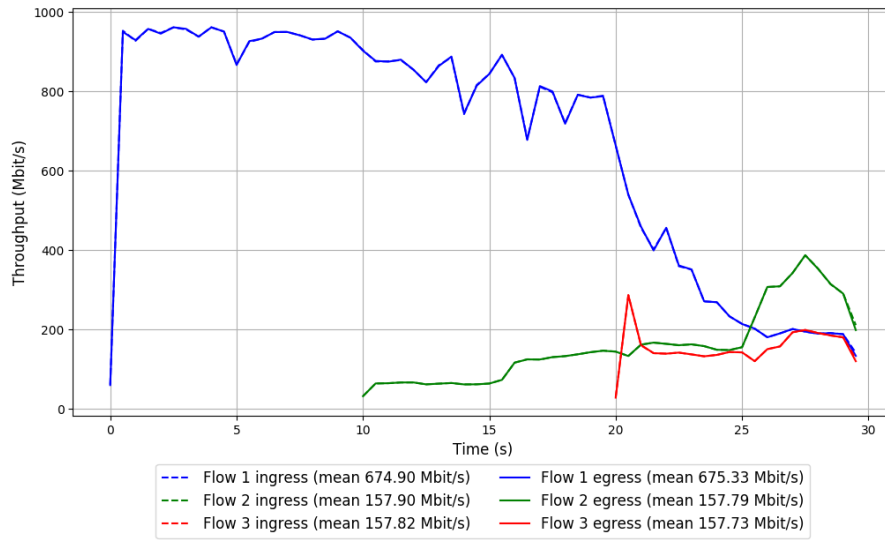
-- Flow 2:

Average throughput: 157.79 Mbit/s
95th percentile per-packet one-way delay: 2.350 ms
Loss rate: 0.22%

-- Flow 3:

Average throughput: 157.73 Mbit/s
95th percentile per-packet one-way delay: 2.838 ms
Loss rate: 0.24%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

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

End at: 2017-12-20 06:53:50

Local clock offset: 0.54 ms

Remote clock offset: -0.63 ms

Below is generated by plot.py at 2017-12-20 13:19:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 888.49 Mbit/s

95th percentile per-packet one-way delay: 3.220 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 629.91 Mbit/s

95th percentile per-packet one-way delay: 3.090 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 285.04 Mbit/s

95th percentile per-packet one-way delay: 3.263 ms

Loss rate: 0.06%

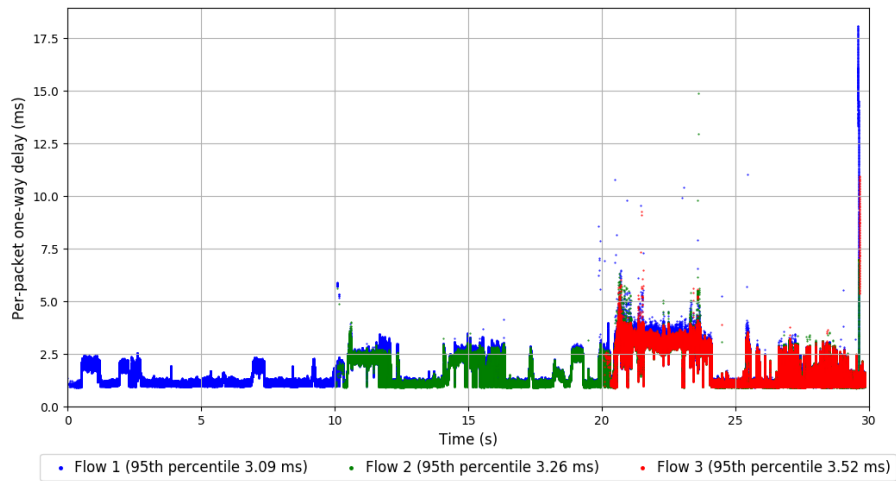
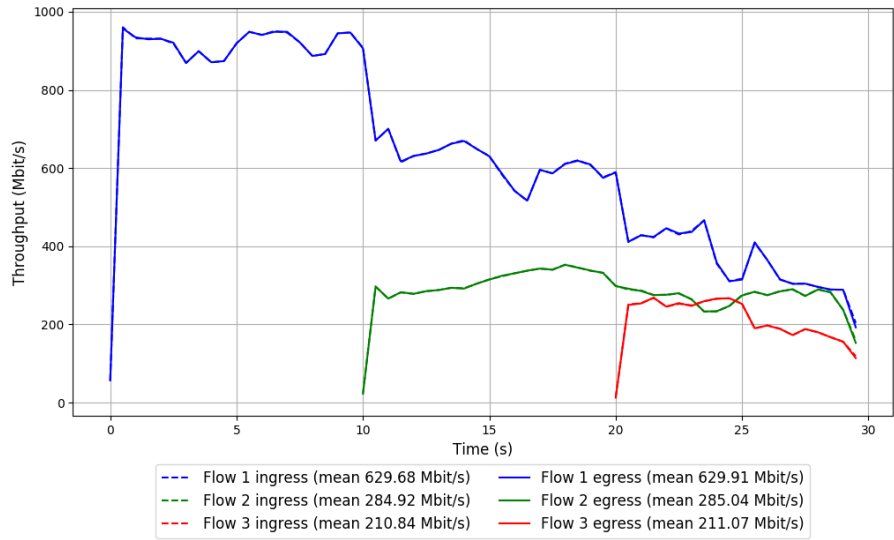
-- Flow 3:

Average throughput: 211.07 Mbit/s

95th percentile per-packet one-way delay: 3.522 ms

Loss rate: 0.12%

Run 6: Report of PCC — Data Link

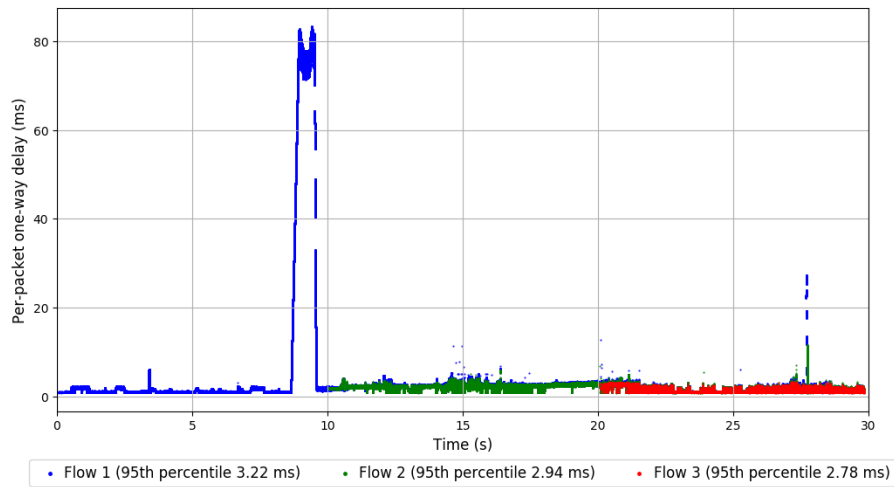
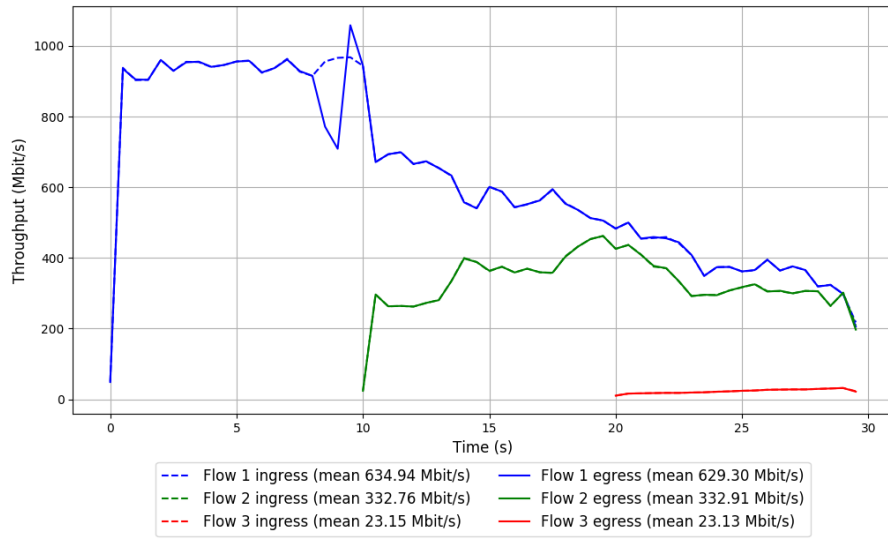


Run 7: Statistics of PCC

Start at: 2017-12-20 07:15:34
End at: 2017-12-20 07:16:04
Local clock offset: 0.878 ms
Remote clock offset: -0.635 ms

```
# Below is generated by plot.py at 2017-12-20 13:21:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 857.96 Mbit/s
95th percentile per-packet one-way delay: 3.065 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 629.30 Mbit/s
95th percentile per-packet one-way delay: 3.224 ms
Loss rate: 0.95%
-- Flow 2:
Average throughput: 332.91 Mbit/s
95th percentile per-packet one-way delay: 2.945 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 23.13 Mbit/s
95th percentile per-packet one-way delay: 2.780 ms
Loss rate: 0.28%
```

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2017-12-20 07:37:47
End at: 2017-12-20 07:38:17
Local clock offset: 1.058 ms
Remote clock offset: -0.795 ms

Below is generated by plot.py at 2017-12-20 13:22:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 845.75 Mbit/s
95th percentile per-packet one-way delay: 2.622 ms
Loss rate: 0.06%

-- Flow 1:

Average throughput: 583.95 Mbit/s
95th percentile per-packet one-way delay: 2.624 ms
Loss rate: 0.03%

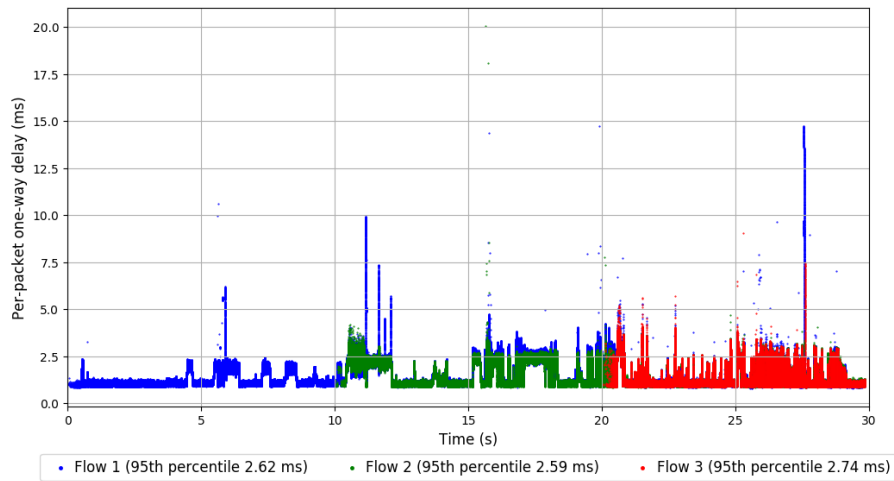
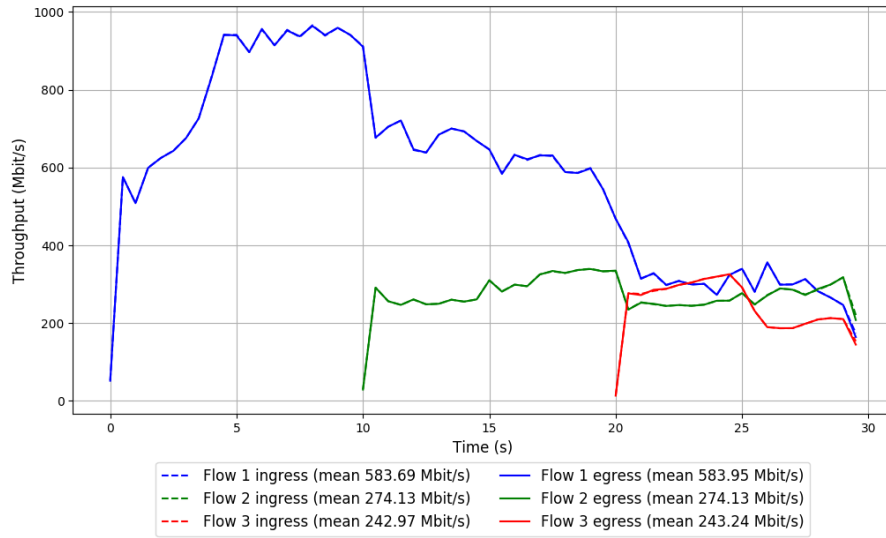
-- Flow 2:

Average throughput: 274.13 Mbit/s
95th percentile per-packet one-way delay: 2.589 ms
Loss rate: 0.12%

-- Flow 3:

Average throughput: 243.24 Mbit/s
95th percentile per-packet one-way delay: 2.742 ms
Loss rate: 0.19%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2017-12-20 08:00:03
End at: 2017-12-20 08:00:33
Local clock offset: 1.272 ms
Remote clock offset: -0.622 ms

Below is generated by plot.py at 2017-12-20 13:27:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 916.40 Mbit/s
95th percentile per-packet one-way delay: 4.005 ms
Loss rate: 0.06%

-- Flow 1:

Average throughput: 635.13 Mbit/s
95th percentile per-packet one-way delay: 3.835 ms
Loss rate: 0.03%

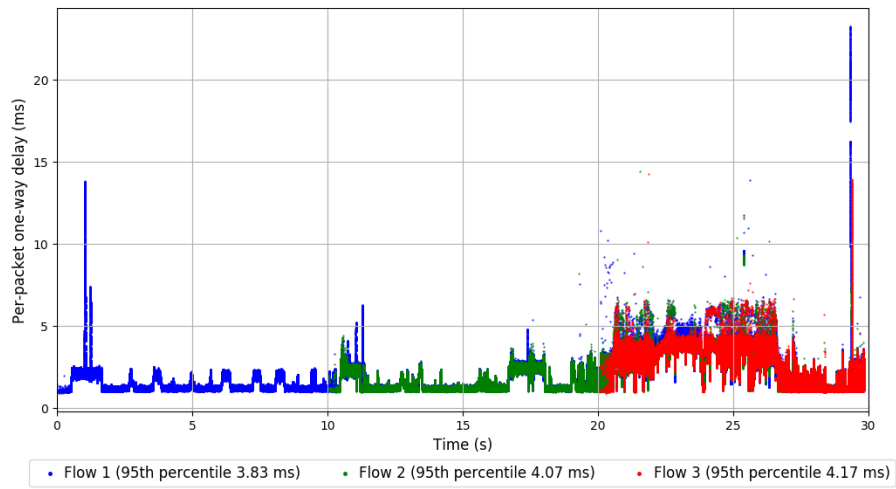
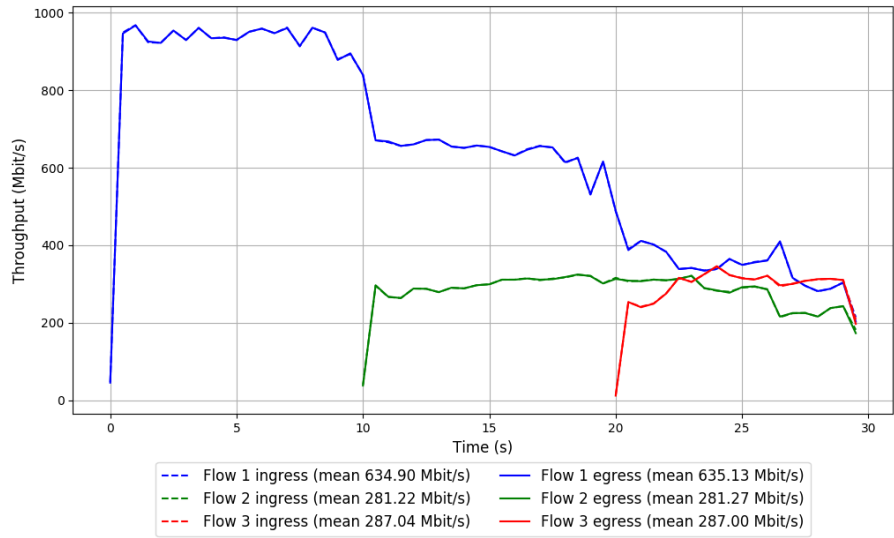
-- Flow 2:

Average throughput: 281.27 Mbit/s
95th percentile per-packet one-way delay: 4.069 ms
Loss rate: 0.08%

-- Flow 3:

Average throughput: 287.00 Mbit/s
95th percentile per-packet one-way delay: 4.169 ms
Loss rate: 0.21%

Run 9: Report of PCC — Data Link

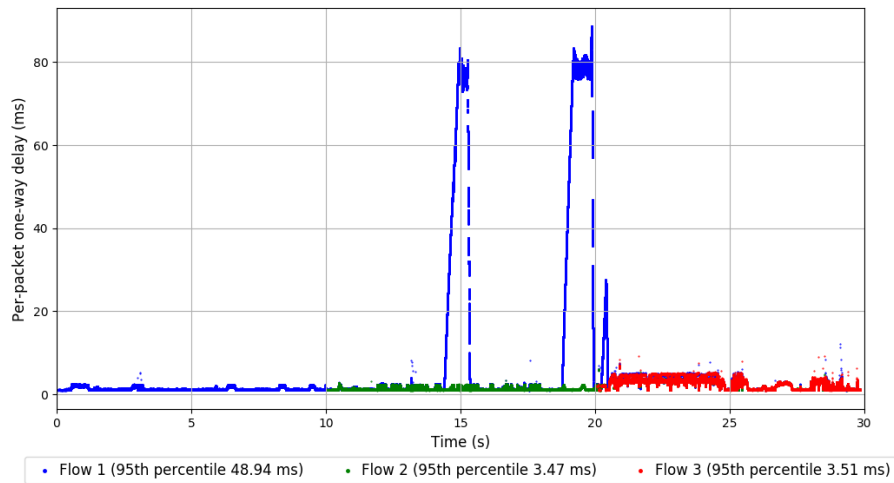
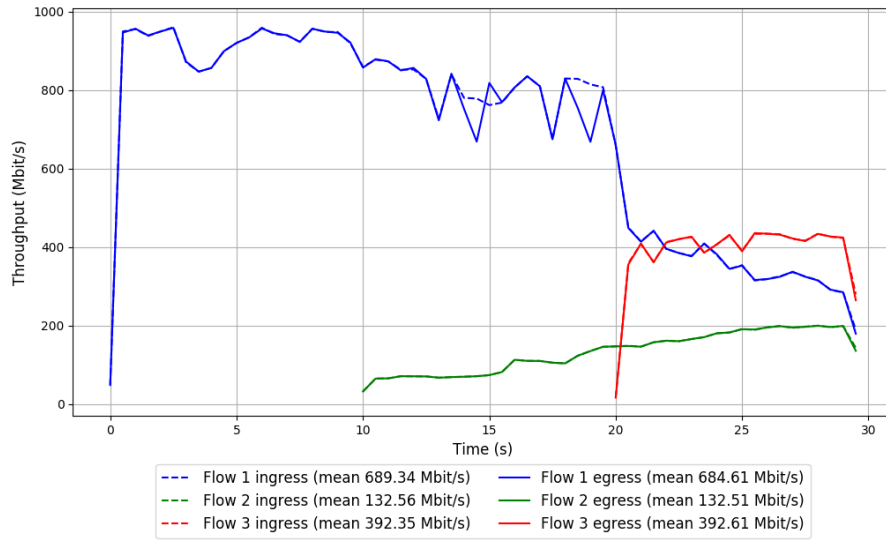


Run 10: Statistics of PCC

Start at: 2017-12-20 08:22:20
End at: 2017-12-20 08:22:50
Local clock offset: 1.08 ms
Remote clock offset: -0.633 ms

```
# Below is generated by plot.py at 2017-12-20 13:28:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 901.58 Mbit/s
95th percentile per-packet one-way delay: 22.201 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 684.61 Mbit/s
95th percentile per-packet one-way delay: 48.941 ms
Loss rate: 0.78%
-- Flow 2:
Average throughput: 132.51 Mbit/s
95th percentile per-packet one-way delay: 3.469 ms
Loss rate: 0.16%
-- Flow 3:
Average throughput: 392.61 Mbit/s
95th percentile per-packet one-way delay: 3.508 ms
Loss rate: 0.21%
```

Run 10: Report of PCC — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2017-12-20 05:05:09

End at: 2017-12-20 05:05:39

Local clock offset: 0.152 ms

Remote clock offset: -2.638 ms

Below is generated by plot.py at 2017-12-20 13:28:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 136.93 Mbit/s

95th percentile per-packet one-way delay: 1.303 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 73.12 Mbit/s

95th percentile per-packet one-way delay: 1.289 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 67.73 Mbit/s

95th percentile per-packet one-way delay: 1.314 ms

Loss rate: 0.07%

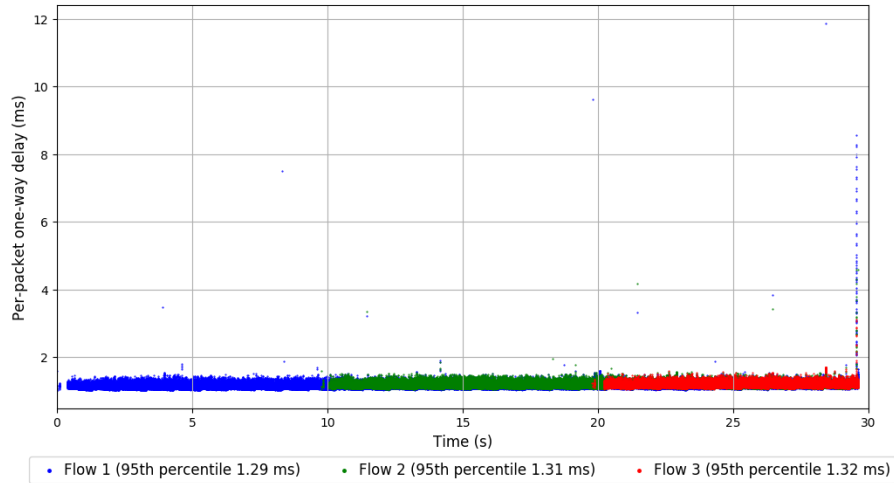
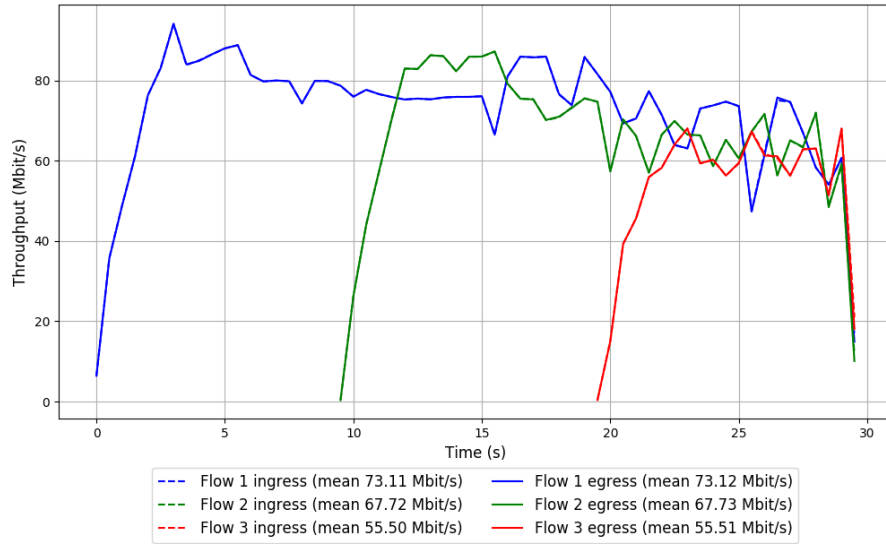
-- Flow 3:

Average throughput: 55.51 Mbit/s

95th percentile per-packet one-way delay: 1.319 ms

Loss rate: 0.29%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2017-12-20 05:27:25

End at: 2017-12-20 05:27:55

Local clock offset: 0.083 ms

Remote clock offset: -1.889 ms

Below is generated by plot.py at 2017-12-20 13:28:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 140.95 Mbit/s

95th percentile per-packet one-way delay: 1.060 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 76.14 Mbit/s

95th percentile per-packet one-way delay: 1.043 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 69.53 Mbit/s

95th percentile per-packet one-way delay: 1.077 ms

Loss rate: 0.10%

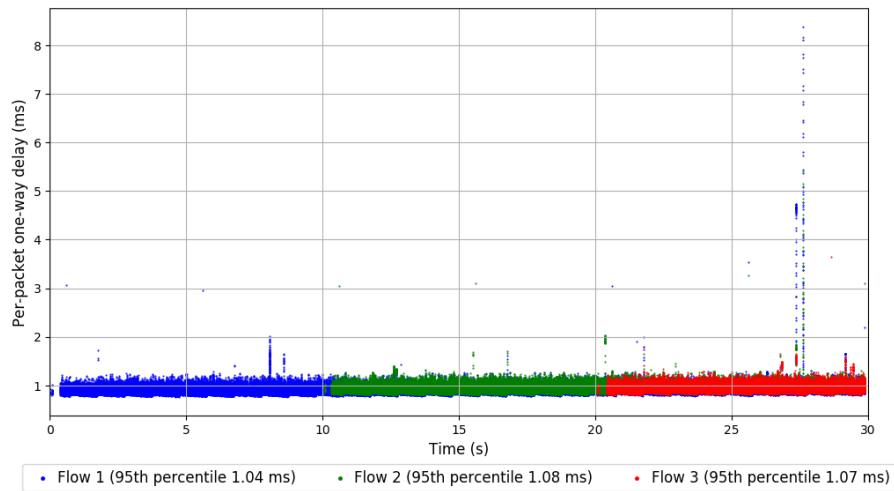
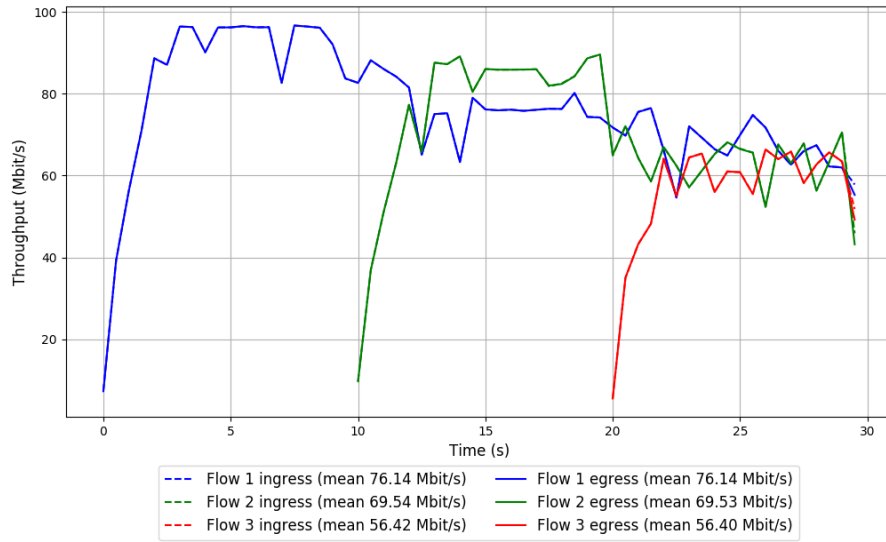
-- Flow 3:

Average throughput: 56.40 Mbit/s

95th percentile per-packet one-way delay: 1.074 ms

Loss rate: 0.24%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2017-12-20 05:49:38

End at: 2017-12-20 05:50:08

Local clock offset: 0.235 ms

Remote clock offset: -1.323 ms

Below is generated by plot.py at 2017-12-20 13:28:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 131.50 Mbit/s

95th percentile per-packet one-way delay: 1.100 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 64.43 Mbit/s

95th percentile per-packet one-way delay: 1.090 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 70.60 Mbit/s

95th percentile per-packet one-way delay: 1.111 ms

Loss rate: 0.10%

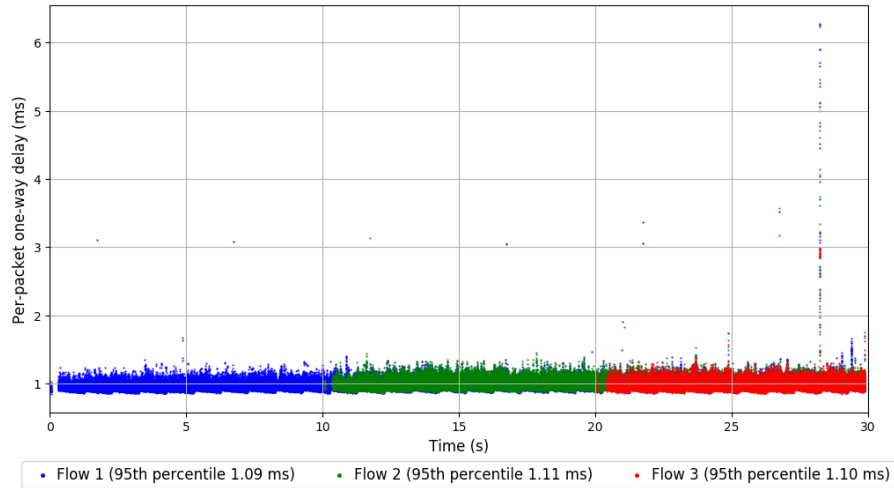
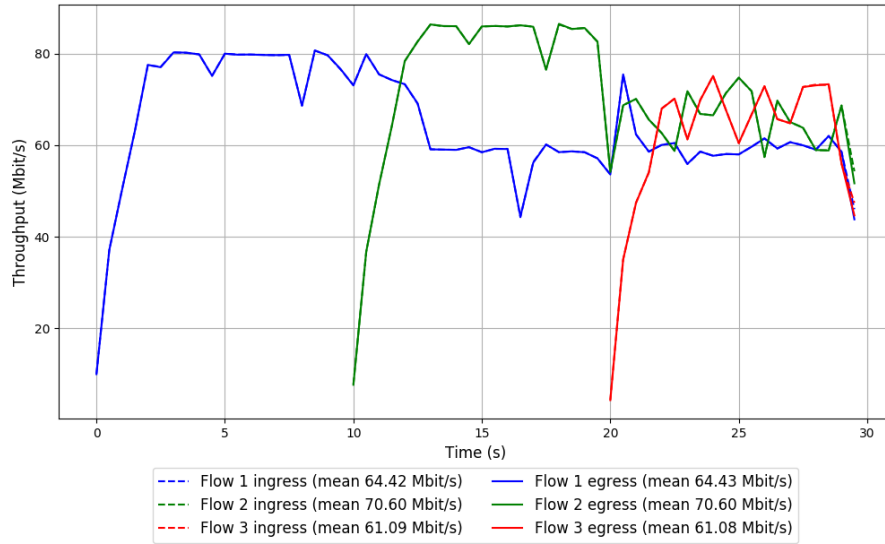
-- Flow 3:

Average throughput: 61.08 Mbit/s

95th percentile per-packet one-way delay: 1.098 ms

Loss rate: 0.24%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2017-12-20 06:11:58

End at: 2017-12-20 06:12:28

Local clock offset: 0.306 ms

Remote clock offset: -1.097 ms

Below is generated by plot.py at 2017-12-20 13:28:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 139.78 Mbit/s

95th percentile per-packet one-way delay: 1.252 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 74.29 Mbit/s

95th percentile per-packet one-way delay: 1.257 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 69.45 Mbit/s

95th percentile per-packet one-way delay: 1.240 ms

Loss rate: 0.10%

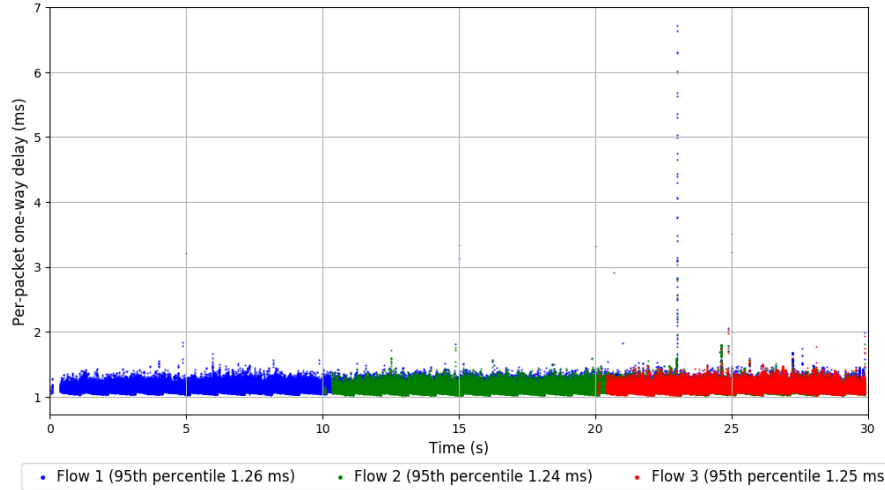
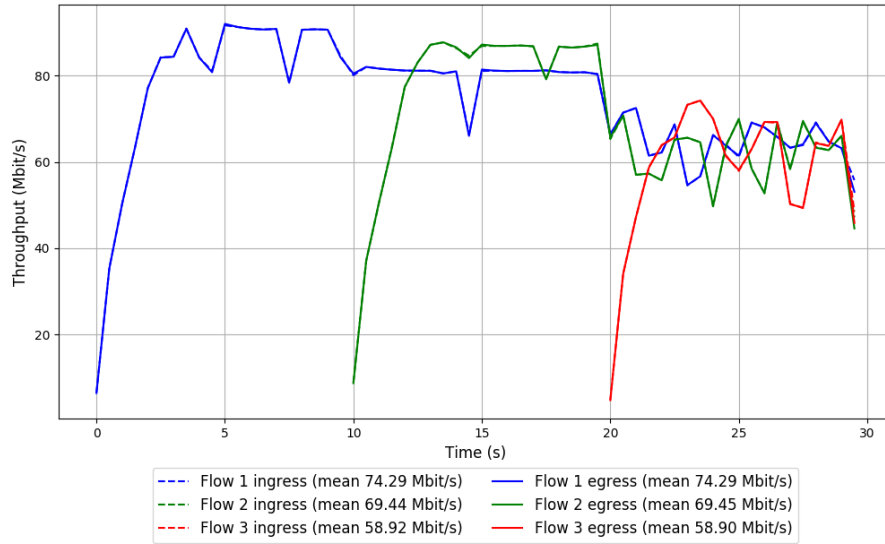
-- Flow 3:

Average throughput: 58.90 Mbit/s

95th percentile per-packet one-way delay: 1.253 ms

Loss rate: 0.25%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2017-12-20 06:34:15
End at: 2017-12-20 06:34:45
Local clock offset: 0.393 ms
Remote clock offset: -0.676 ms

Below is generated by plot.py at 2017-12-20 13:28:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 138.16 Mbit/s
95th percentile per-packet one-way delay: 1.234 ms
Loss rate: 0.10%

-- Flow 1:

Average throughput: 74.00 Mbit/s
95th percentile per-packet one-way delay: 1.233 ms
Loss rate: 0.06%

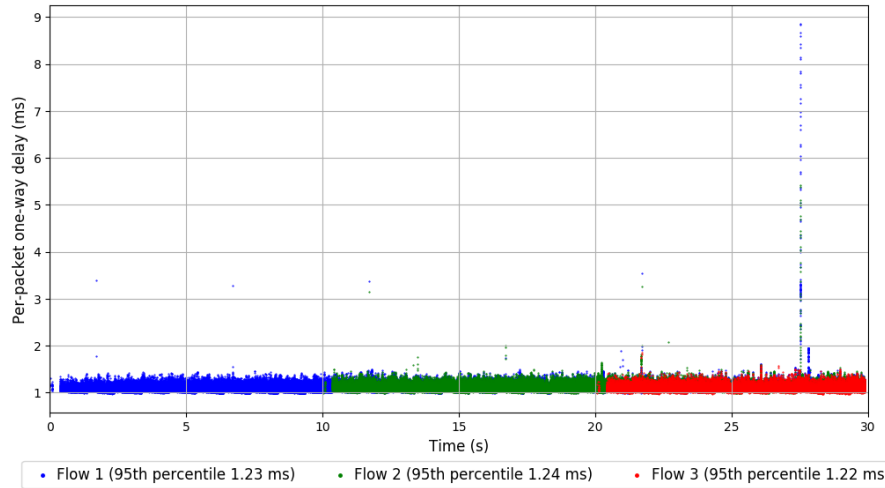
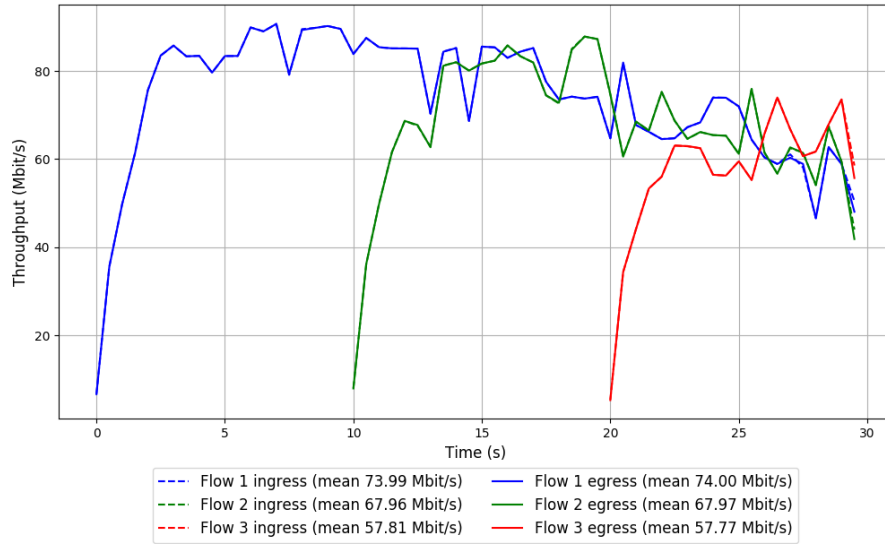
-- Flow 2:

Average throughput: 67.97 Mbit/s
95th percentile per-packet one-way delay: 1.240 ms
Loss rate: 0.08%

-- Flow 3:

Average throughput: 57.77 Mbit/s
95th percentile per-packet one-way delay: 1.220 ms
Loss rate: 0.26%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2017-12-20 06:56:35
End at: 2017-12-20 06:57:05
Local clock offset: 0.688 ms
Remote clock offset: -0.592 ms

Below is generated by plot.py at 2017-12-20 13:28:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 143.36 Mbit/s
95th percentile per-packet one-way delay: 1.156 ms
Loss rate: 0.08%

-- Flow 1:

Average throughput: 77.76 Mbit/s
95th percentile per-packet one-way delay: 1.148 ms
Loss rate: 0.00%

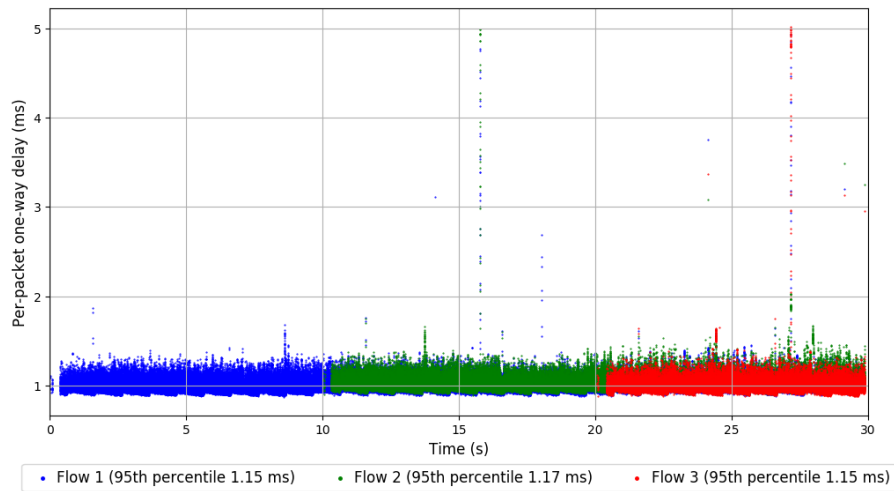
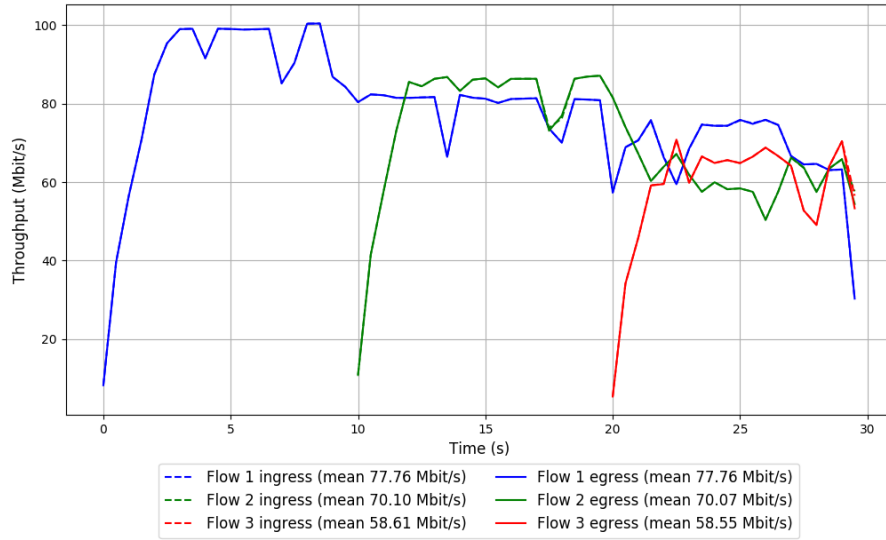
-- Flow 2:

Average throughput: 70.07 Mbit/s
95th percentile per-packet one-way delay: 1.173 ms
Loss rate: 0.12%

-- Flow 3:

Average throughput: 58.55 Mbit/s
95th percentile per-packet one-way delay: 1.145 ms
Loss rate: 0.29%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2017-12-20 07:18:48
End at: 2017-12-20 07:19:18
Local clock offset: 0.91 ms
Remote clock offset: -0.499 ms

Below is generated by plot.py at 2017-12-20 13:28:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 140.59 Mbit/s
95th percentile per-packet one-way delay: 1.100 ms
Loss rate: 0.12%

-- Flow 1:

Average throughput: 75.63 Mbit/s
95th percentile per-packet one-way delay: 1.092 ms
Loss rate: 0.09%

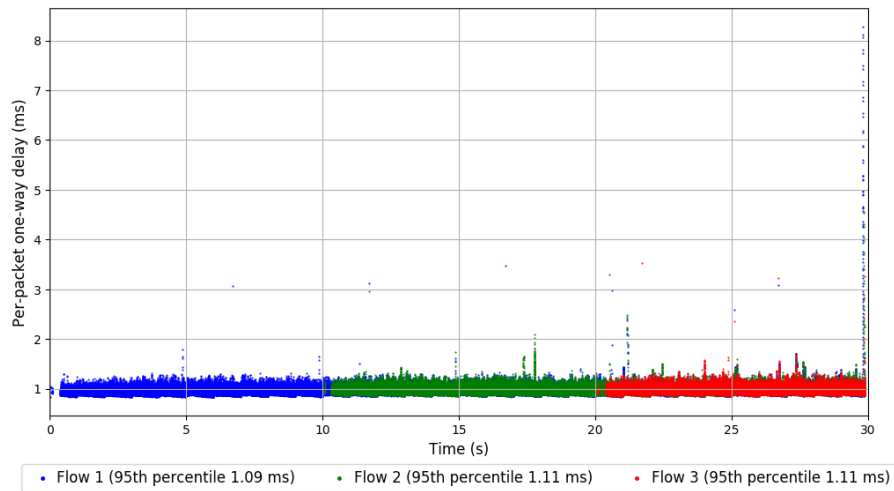
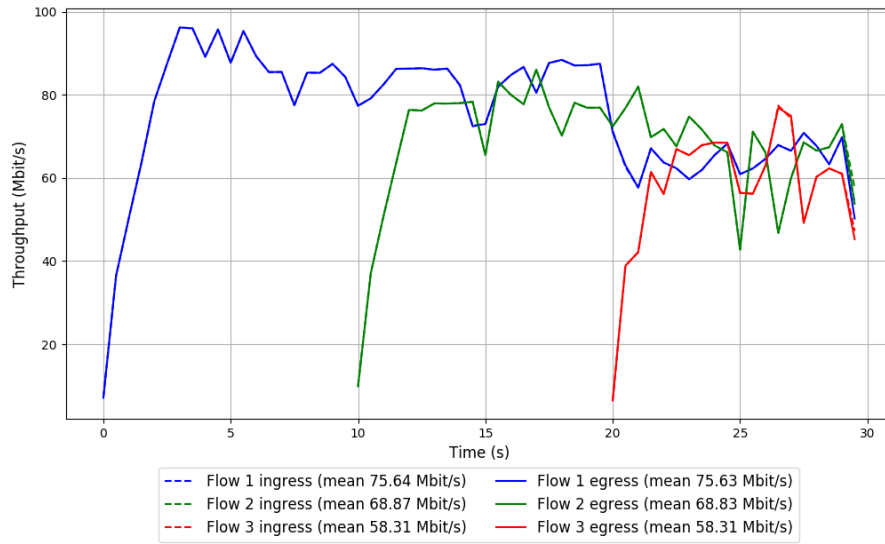
-- Flow 2:

Average throughput: 68.83 Mbit/s
95th percentile per-packet one-way delay: 1.106 ms
Loss rate: 0.14%

-- Flow 3:

Average throughput: 58.31 Mbit/s
95th percentile per-packet one-way delay: 1.111 ms
Loss rate: 0.18%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2017-12-20 07:41:01

End at: 2017-12-20 07:41:31

Local clock offset: 0.996 ms

Remote clock offset: -0.964 ms

Below is generated by plot.py at 2017-12-20 13:28:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 143.71 Mbit/s

95th percentile per-packet one-way delay: 1.127 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 77.29 Mbit/s

95th percentile per-packet one-way delay: 1.125 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 70.59 Mbit/s

95th percentile per-packet one-way delay: 1.122 ms

Loss rate: 0.10%

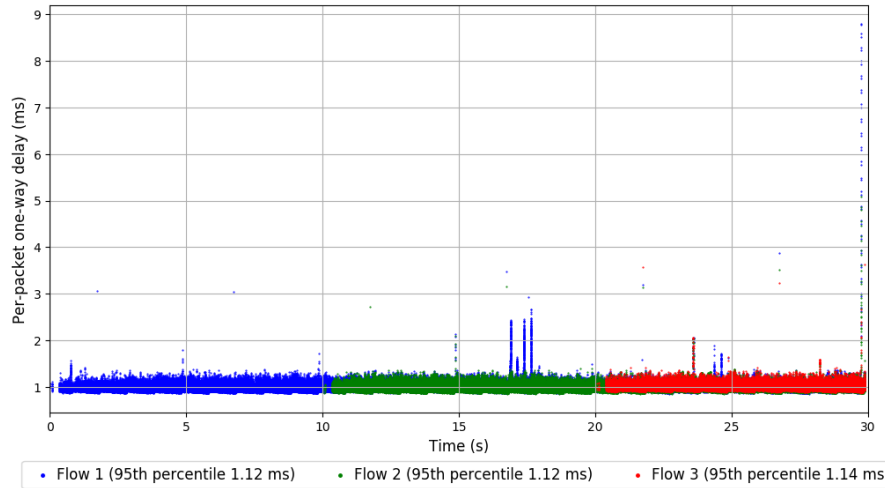
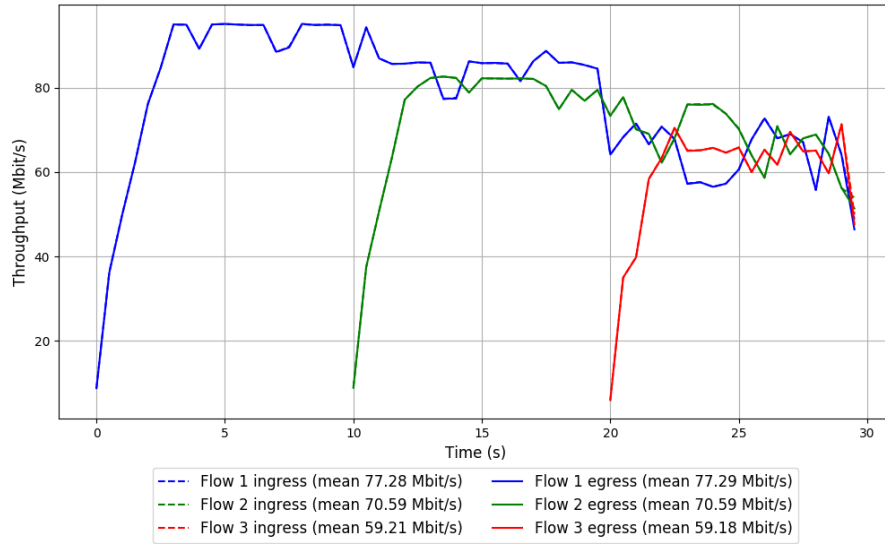
-- Flow 3:

Average throughput: 59.18 Mbit/s

95th percentile per-packet one-way delay: 1.143 ms

Loss rate: 0.22%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2017-12-20 08:03:20

End at: 2017-12-20 08:03:50

Local clock offset: 1.16 ms

Remote clock offset: -0.619 ms

Below is generated by plot.py at 2017-12-20 13:28:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 140.91 Mbit/s

95th percentile per-packet one-way delay: 1.200 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 74.63 Mbit/s

95th percentile per-packet one-way delay: 1.203 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 70.62 Mbit/s

95th percentile per-packet one-way delay: 1.192 ms

Loss rate: 0.12%

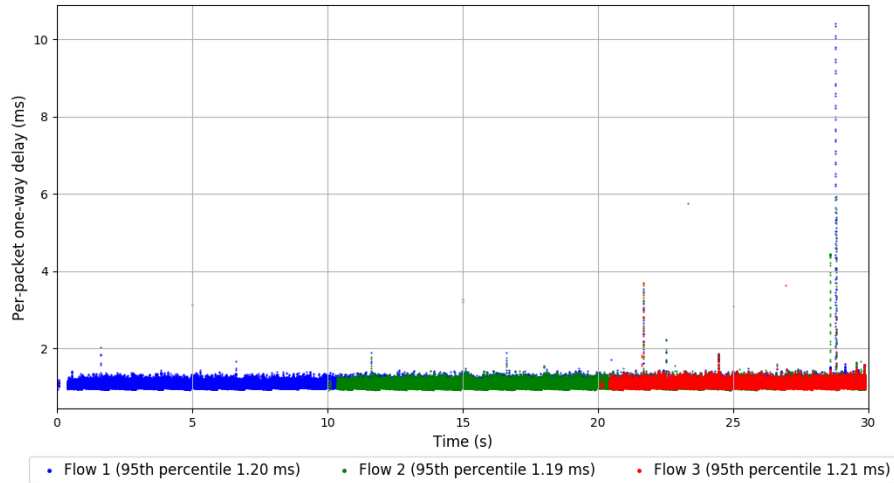
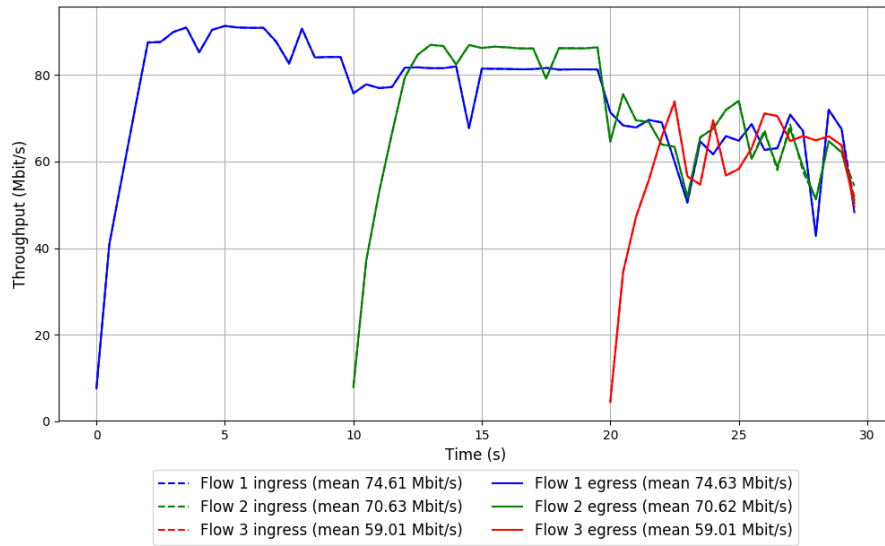
-- Flow 3:

Average throughput: 59.01 Mbit/s

95th percentile per-packet one-way delay: 1.206 ms

Loss rate: 0.20%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2017-12-20 08:25:35

End at: 2017-12-20 08:26:06

Local clock offset: 1.071 ms

Remote clock offset: -0.626 ms

Below is generated by plot.py at 2017-12-20 13:28:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 139.58 Mbit/s

95th percentile per-packet one-way delay: 1.142 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 77.26 Mbit/s

95th percentile per-packet one-way delay: 1.144 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 65.38 Mbit/s

95th percentile per-packet one-way delay: 1.144 ms

Loss rate: 0.11%

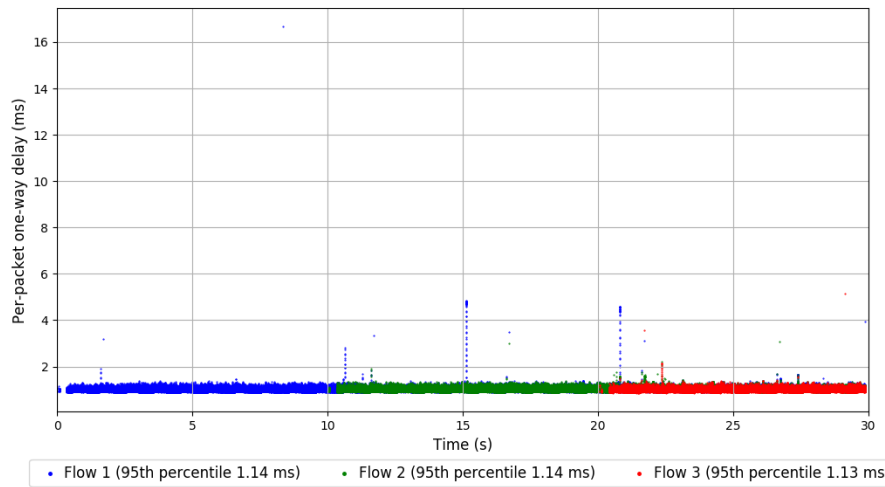
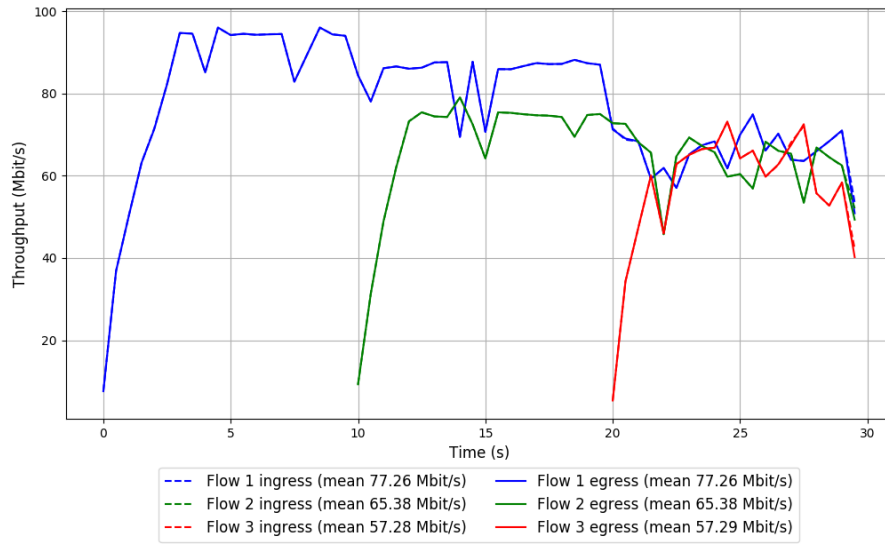
-- Flow 3:

Average throughput: 57.29 Mbit/s

95th percentile per-packet one-way delay: 1.132 ms

Loss rate: 0.18%

Run 10: Report of QUIC Cubic — Data Link



Run 1: Statistics of SCReAM

Start at: 2017-12-20 05:14:14
End at: 2017-12-20 05:14:44
Local clock offset: 0.082 ms
Remote clock offset: -2.319 ms

Below is generated by plot.py at 2017-12-20 13:28:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 1.210 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.214 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.206 ms

Loss rate: 0.00%

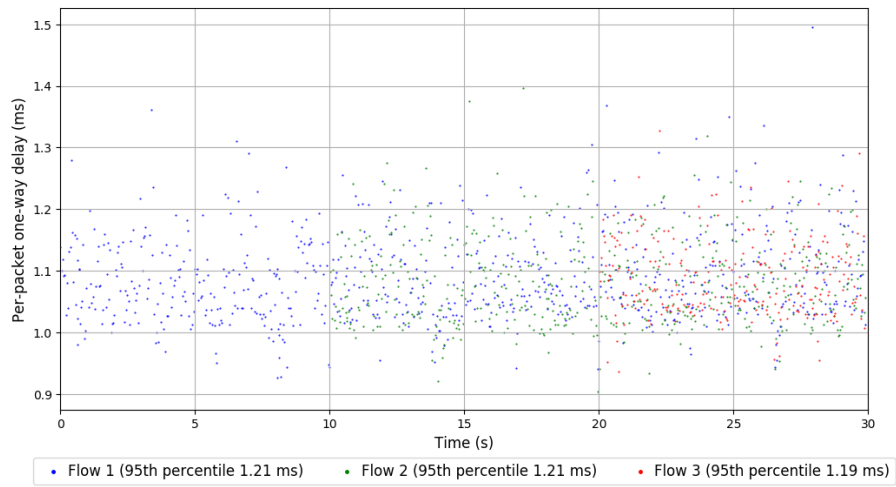
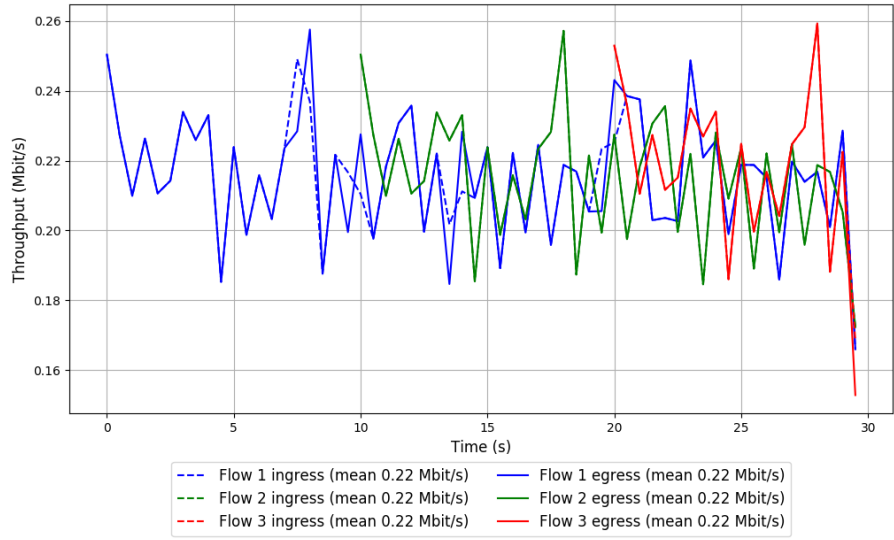
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.190 ms

Loss rate: 0.35%

Run 1: Report of SCReAM — Data Link



Run 2: Statistics of SCReAM

Start at: 2017-12-20 05:36:24
End at: 2017-12-20 05:36:54
Local clock offset: 0.265 ms
Remote clock offset: -1.713 ms

Below is generated by plot.py at 2017-12-20 13:28:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 1.326 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.304 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.333 ms

Loss rate: 0.00%

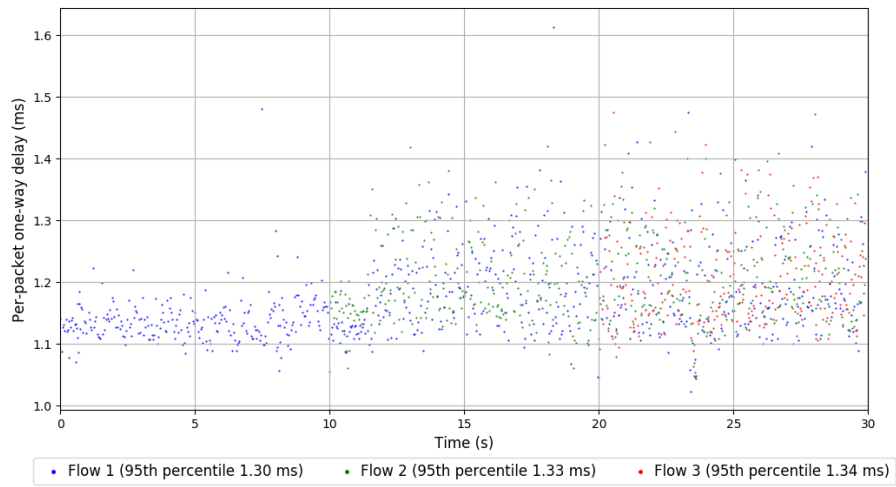
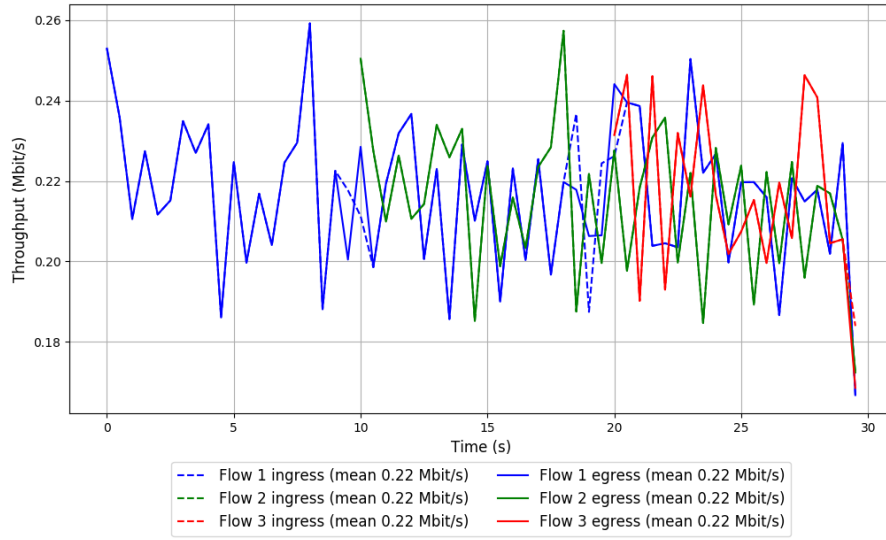
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.341 ms

Loss rate: 0.35%

Run 2: Report of SCReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2017-12-20 05:58:42
End at: 2017-12-20 05:59:12
Local clock offset: 0.207 ms
Remote clock offset: -1.191 ms

Below is generated by plot.py at 2017-12-20 13:28:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.48 Mbit/s

95th percentile per-packet one-way delay: 1.226 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.207 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.237 ms

Loss rate: 0.00%

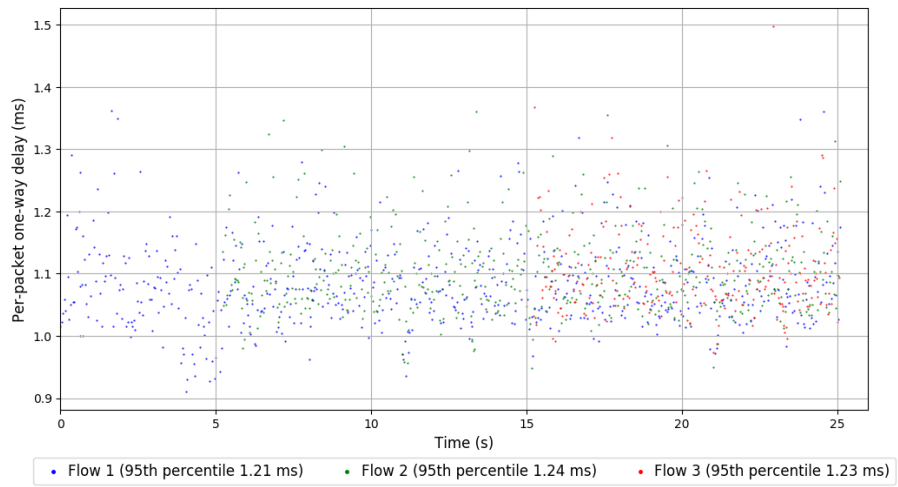
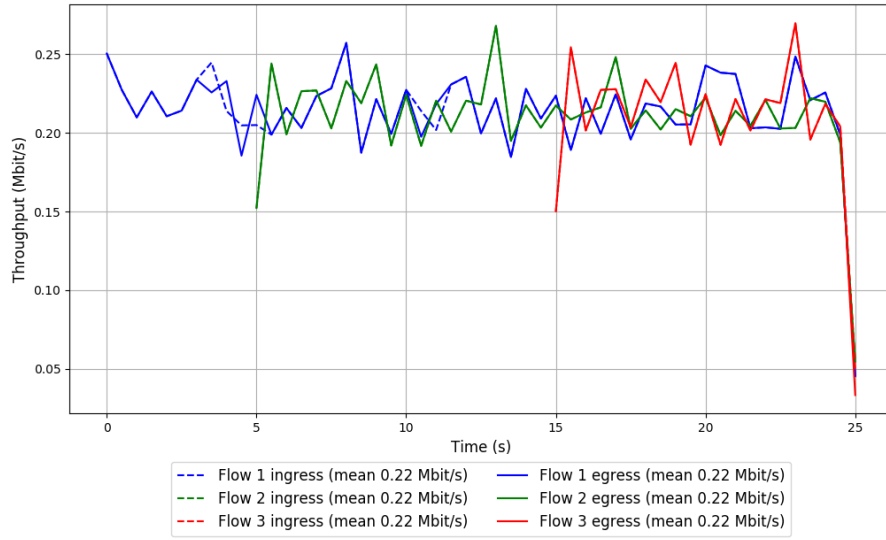
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.232 ms

Loss rate: 0.35%

Run 3: Report of SCReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2017-12-20 06:21:05
End at: 2017-12-20 06:21:35
Local clock offset: 0.229 ms
Remote clock offset: -0.861 ms

Below is generated by plot.py at 2017-12-20 13:28:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.46 Mbit/s
95th percentile per-packet one-way delay: 1.112 ms
Loss rate: 0.07%

-- Flow 1:

Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.098 ms
Loss rate: 0.14%

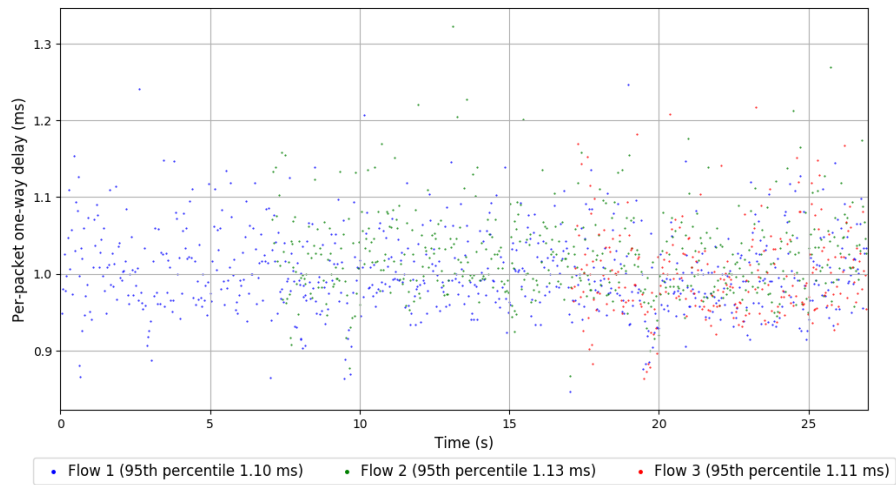
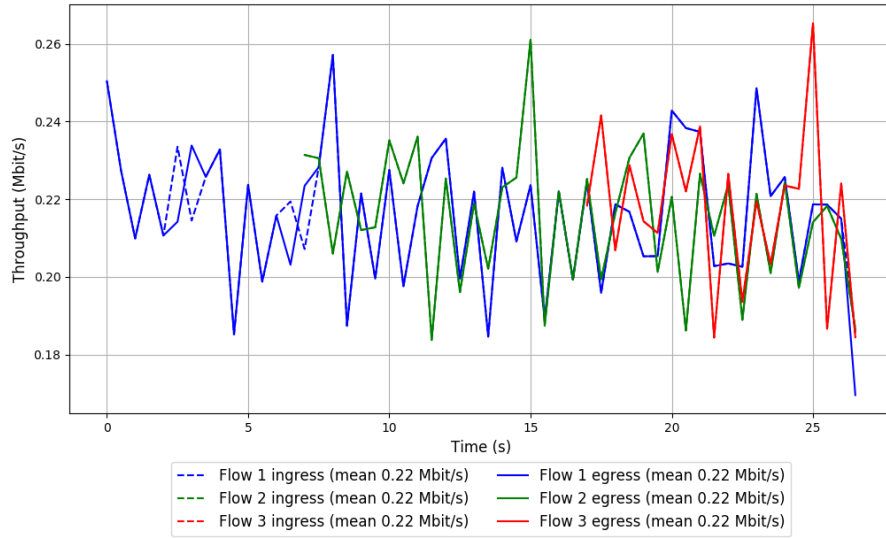
-- Flow 2:

Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.133 ms
Loss rate: 0.00%

-- Flow 3:

Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.115 ms
Loss rate: 0.00%

Run 4: Report of SCReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2017-12-20 06:43:18

End at: 2017-12-20 06:43:48

Local clock offset: 0.428 ms

Remote clock offset: -0.47 ms

Below is generated by plot.py at 2017-12-20 13:28:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 1.238 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.235 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.245 ms

Loss rate: 0.00%

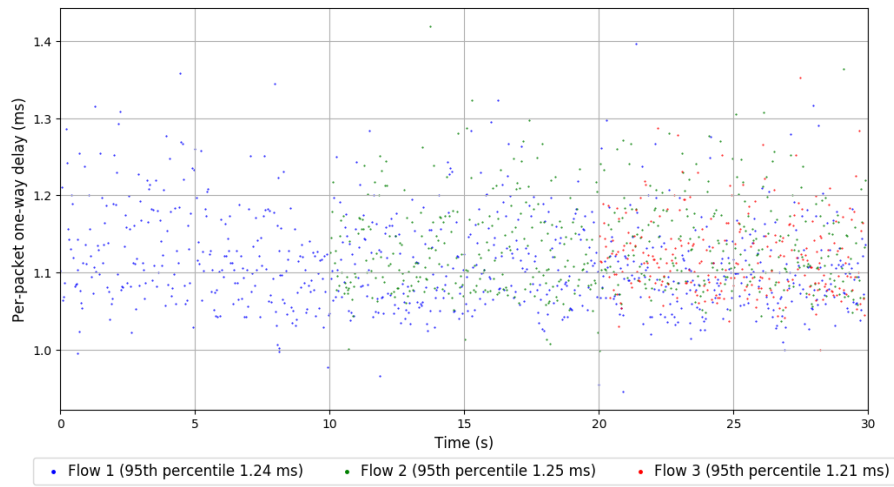
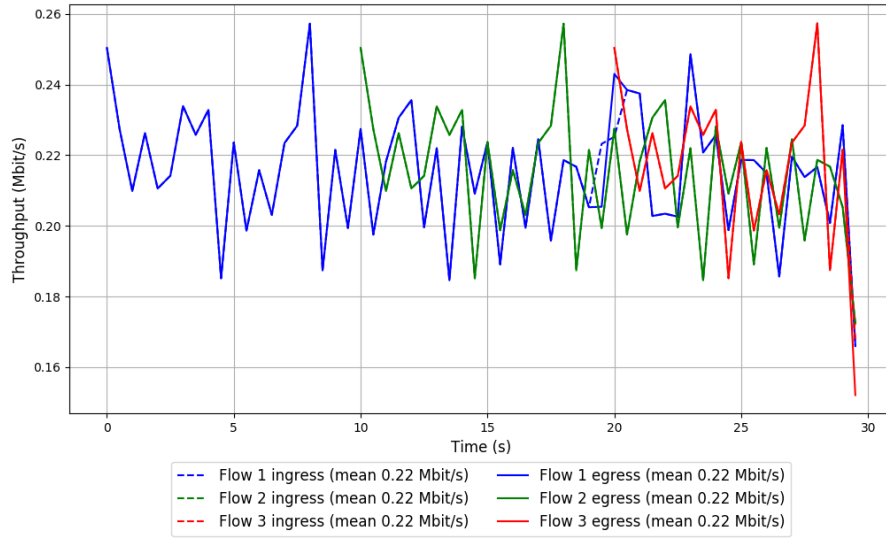
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.214 ms

Loss rate: 0.35%

Run 5: Report of SCReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2017-12-20 07:05:33
End at: 2017-12-20 07:06:03
Local clock offset: 0.738 ms
Remote clock offset: -0.744 ms

Below is generated by plot.py at 2017-12-20 13:28:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 1.247 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.217 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.285 ms

Loss rate: 0.00%

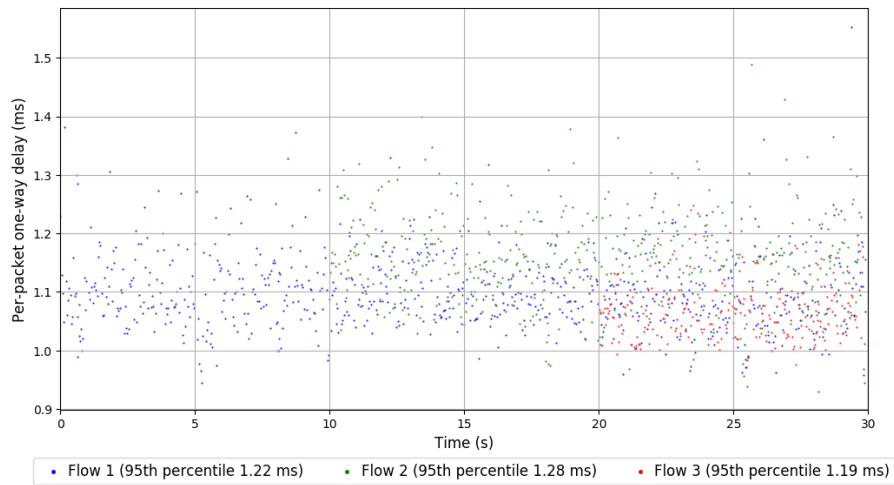
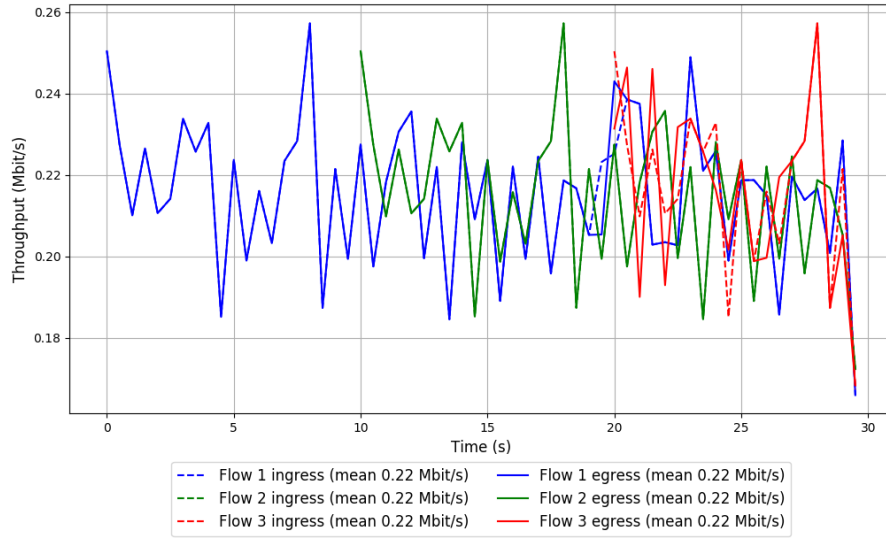
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.186 ms

Loss rate: 0.35%

Run 6: Report of SCReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2017-12-20 07:27:55
End at: 2017-12-20 07:28:25
Local clock offset: 0.916 ms
Remote clock offset: -0.746 ms

Below is generated by plot.py at 2017-12-20 13:28:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.49 Mbit/s

95th percentile per-packet one-way delay: 1.230 ms

Loss rate: 0.14%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.218 ms

Loss rate: 0.17%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.248 ms

Loss rate: 0.00%

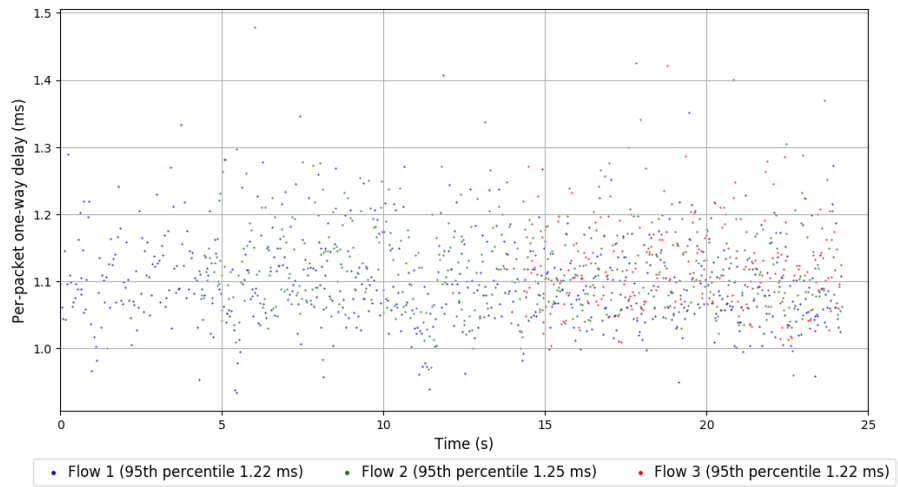
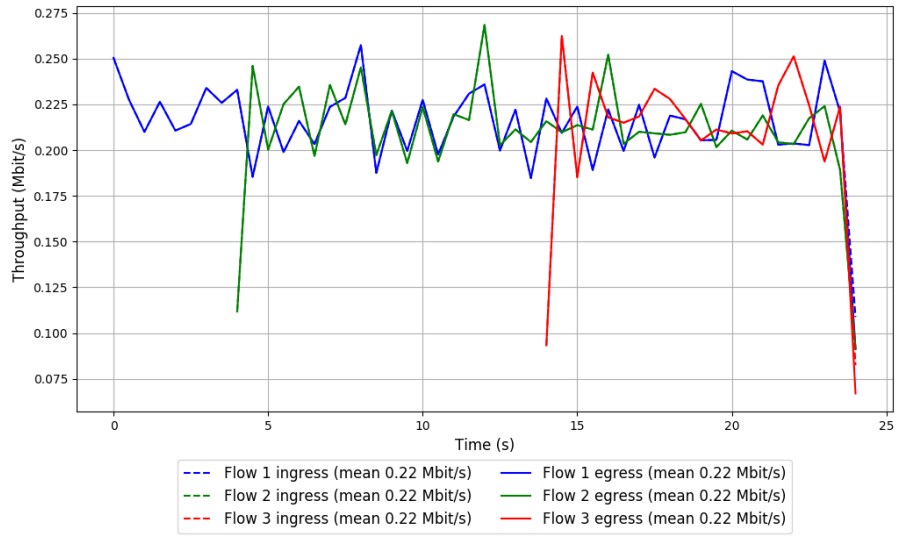
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.224 ms

Loss rate: 0.35%

Run 7: Report of SCReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2017-12-20 07:50:12
End at: 2017-12-20 07:50:42
Local clock offset: 1.247 ms
Remote clock offset: -0.754 ms

Below is generated by plot.py at 2017-12-20 13:28:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.45 Mbit/s

95th percentile per-packet one-way delay: 1.272 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.286 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.266 ms

Loss rate: 0.00%

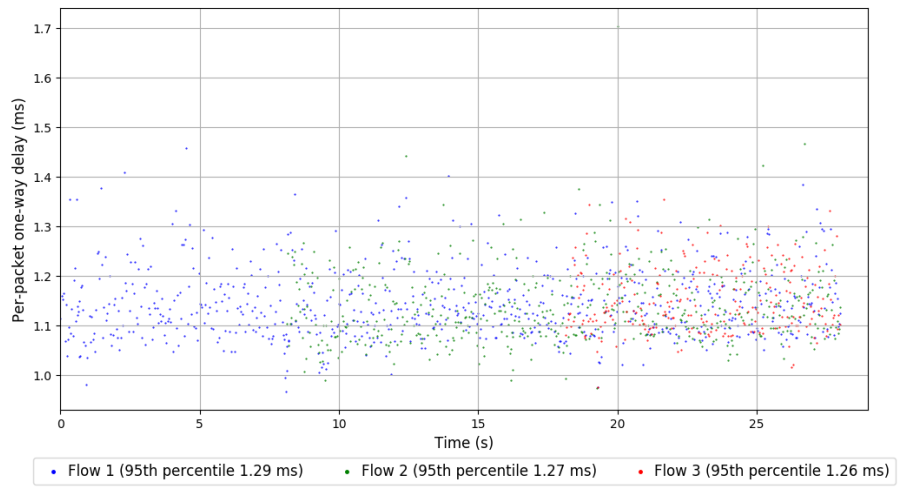
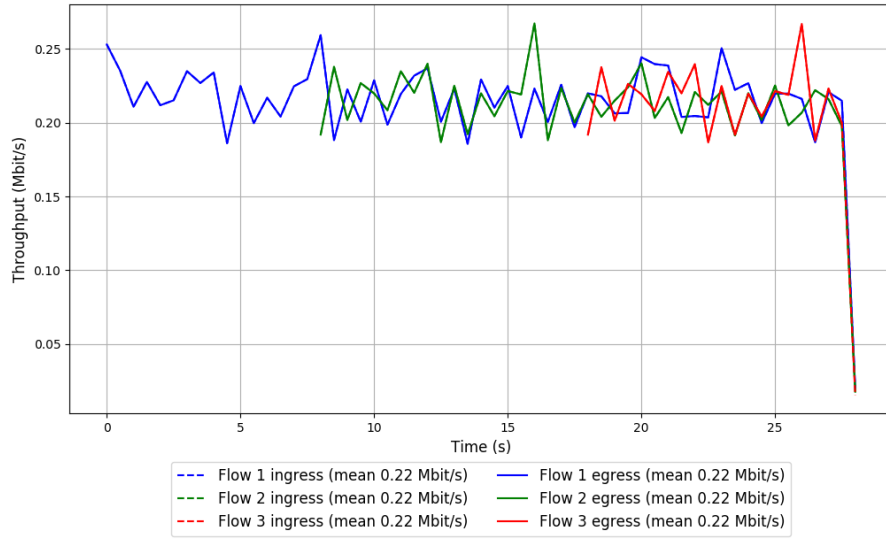
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.265 ms

Loss rate: 0.35%

Run 8: Report of SCReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2017-12-20 08:12:27
End at: 2017-12-20 08:12:57
Local clock offset: 1.117 ms
Remote clock offset: -0.337 ms

Below is generated by plot.py at 2017-12-20 13:28:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 1.182 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.192 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.171 ms

Loss rate: 0.00%

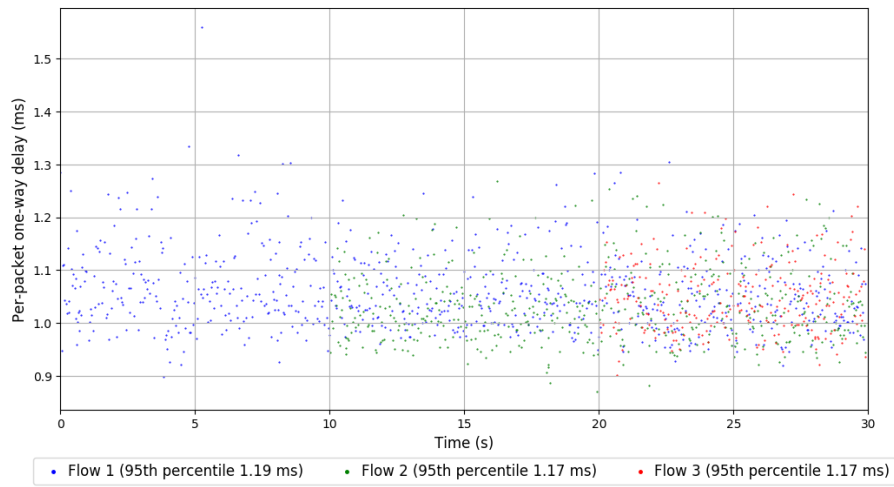
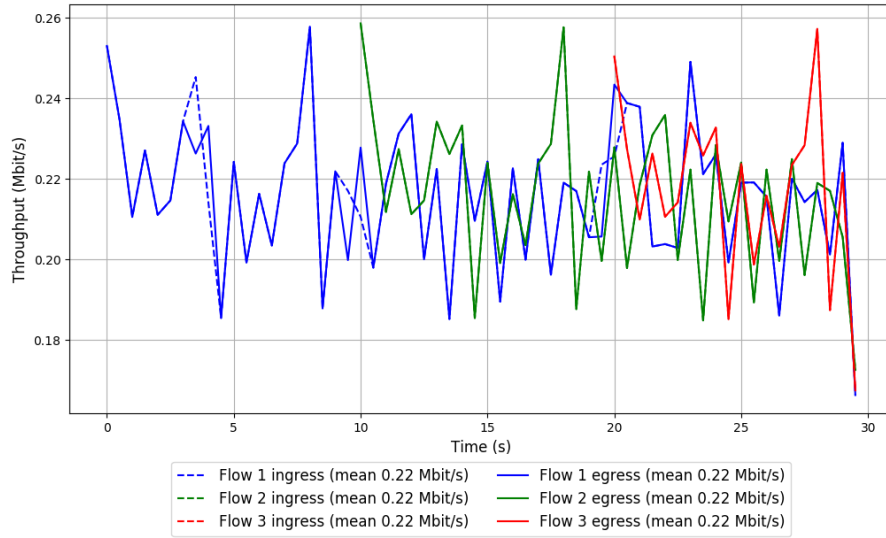
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.166 ms

Loss rate: 0.00%

Run 9: Report of SCReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2017-12-20 08:34:45

End at: 2017-12-20 08:35:15

Local clock offset: 1.096 ms

Remote clock offset: -0.81 ms

Below is generated by plot.py at 2017-12-20 13:28:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 1.332 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.359 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.302 ms

Loss rate: 0.00%

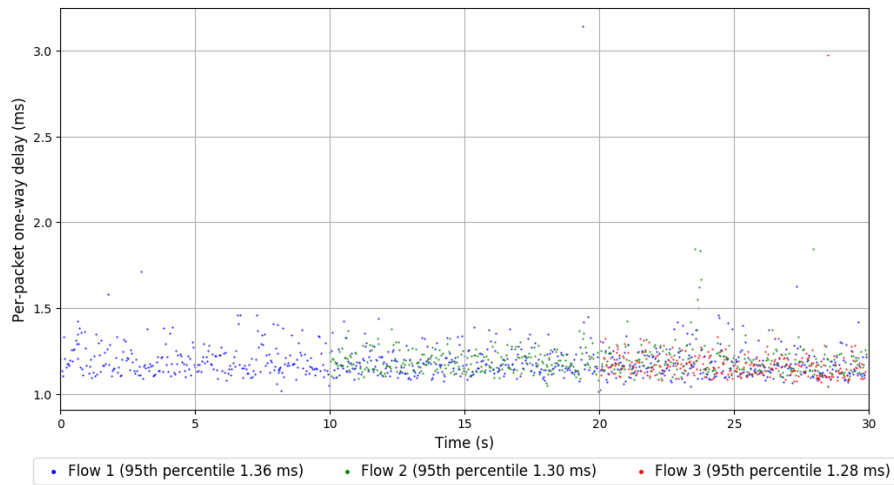
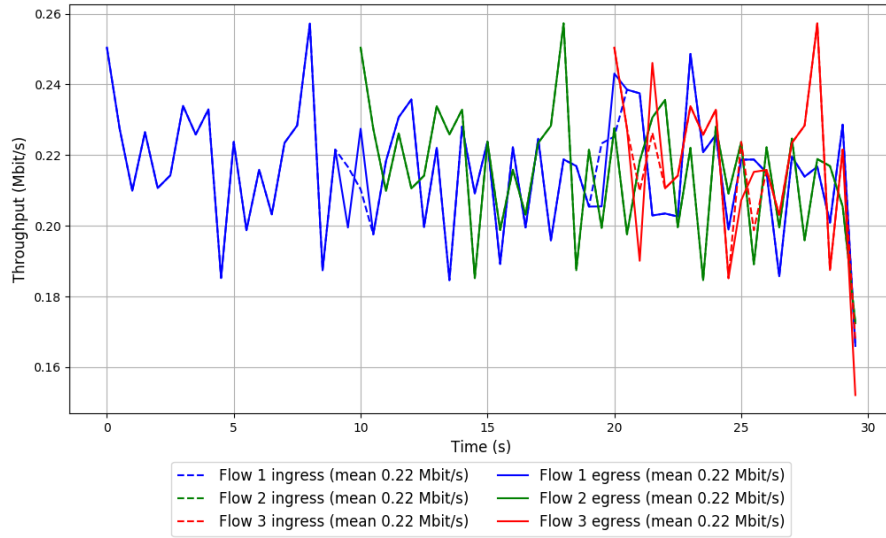
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.278 ms

Loss rate: 0.35%

Run 10: Report of SCReAM — Data Link



Run 1: Statistics of WebRTC media

Start at: 2017-12-20 04:54:42
End at: 2017-12-20 04:55:12
Local clock offset: 0.117 ms
Remote clock offset: -2.846 ms

Below is generated by plot.py at 2017-12-20 13:28:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.43 Mbit/s

95th percentile per-packet one-way delay: 1.230 ms

Loss rate: 0.17%

-- Flow 1:

Average throughput: 2.37 Mbit/s

95th percentile per-packet one-way delay: 1.237 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.50 Mbit/s

95th percentile per-packet one-way delay: 1.218 ms

Loss rate: 0.50%

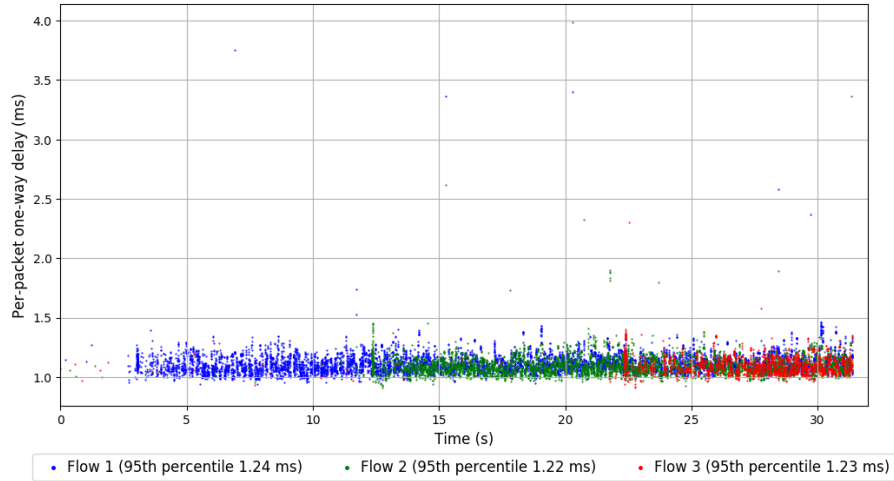
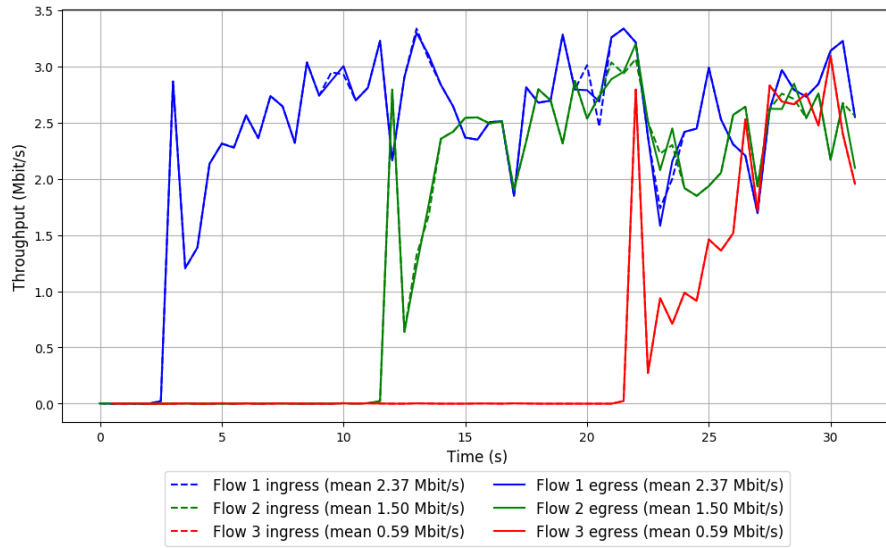
-- Flow 3:

Average throughput: 0.59 Mbit/s

95th percentile per-packet one-way delay: 1.232 ms

Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link

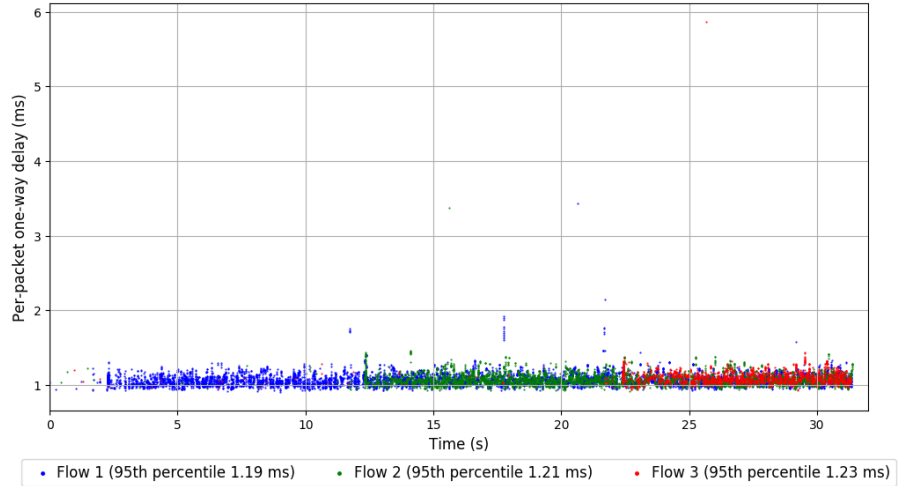
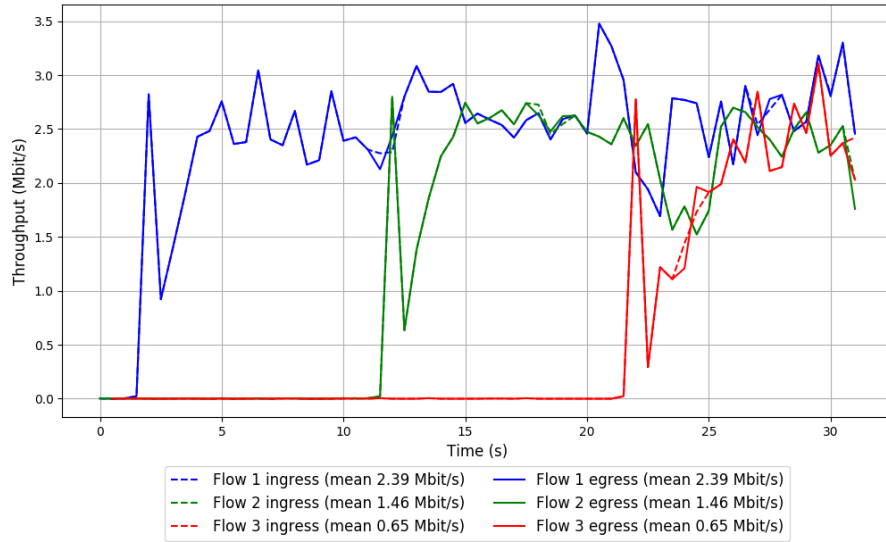


Run 2: Statistics of WebRTC media

Start at: 2017-12-20 05:16:57
End at: 2017-12-20 05:17:27
Local clock offset: 0.083 ms
Remote clock offset: -2.311 ms

```
# Below is generated by plot.py at 2017-12-20 13:28:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.45 Mbit/s
95th percentile per-packet one-way delay: 1.206 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 2.39 Mbit/s
95th percentile per-packet one-way delay: 1.193 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.46 Mbit/s
95th percentile per-packet one-way delay: 1.210 ms
Loss rate: 0.30%
-- Flow 3:
Average throughput: 0.65 Mbit/s
95th percentile per-packet one-way delay: 1.233 ms
Loss rate: 0.98%
```

Run 2: Report of WebRTC media — Data Link

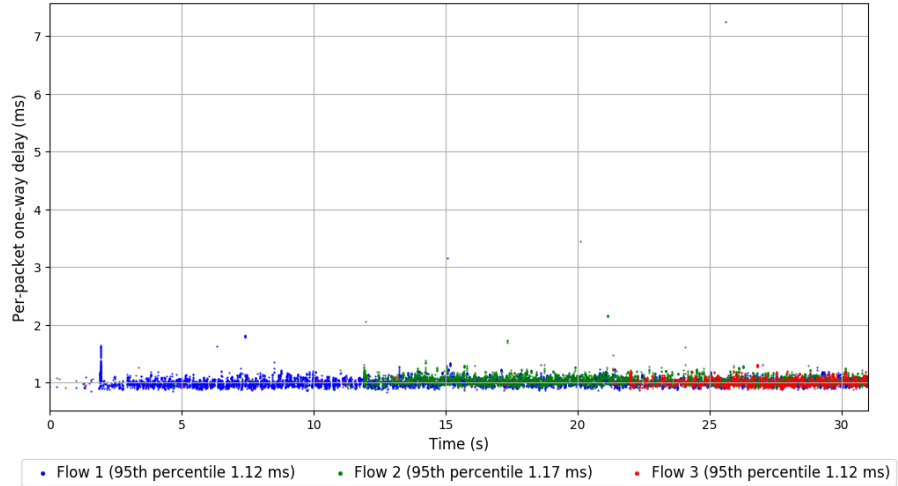
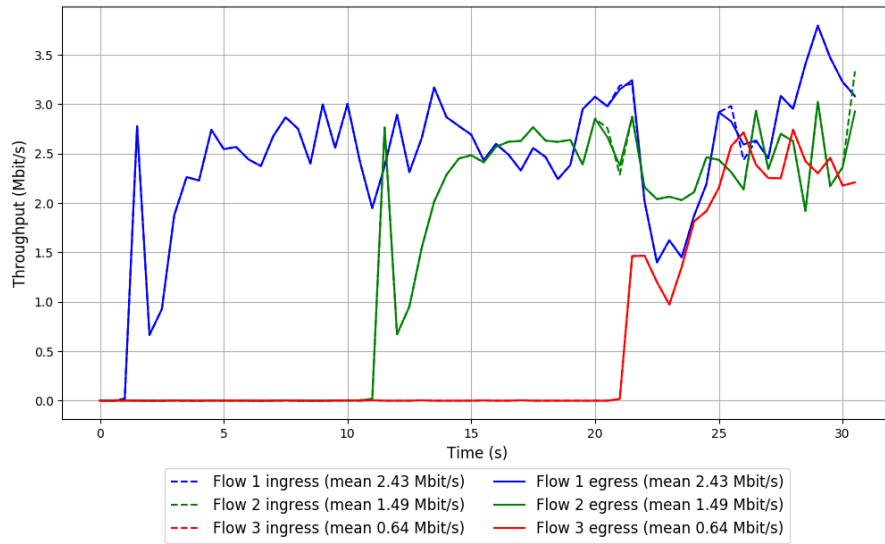


Run 3: Statistics of WebRTC media

Start at: 2017-12-20 05:39:06
End at: 2017-12-20 05:39:36
Local clock offset: 0.194 ms
Remote clock offset: -1.642 ms

```
# Below is generated by plot.py at 2017-12-20 13:28:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.55 Mbit/s
95th percentile per-packet one-way delay: 1.143 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 2.43 Mbit/s
95th percentile per-packet one-way delay: 1.125 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.49 Mbit/s
95th percentile per-packet one-way delay: 1.170 ms
Loss rate: 0.44%
-- Flow 3:
Average throughput: 0.64 Mbit/s
95th percentile per-packet one-way delay: 1.124 ms
Loss rate: 0.00%
```


Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2017-12-20 06:01:28
End at: 2017-12-20 06:01:58
Local clock offset: 0.21 ms
Remote clock offset: -1.098 ms

Below is generated by plot.py at 2017-12-20 13:28:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.51 Mbit/s
95th percentile per-packet one-way delay: 1.083 ms
Loss rate: 0.26%

-- Flow 1:

Average throughput: 2.40 Mbit/s
95th percentile per-packet one-way delay: 1.091 ms
Loss rate: 0.24%

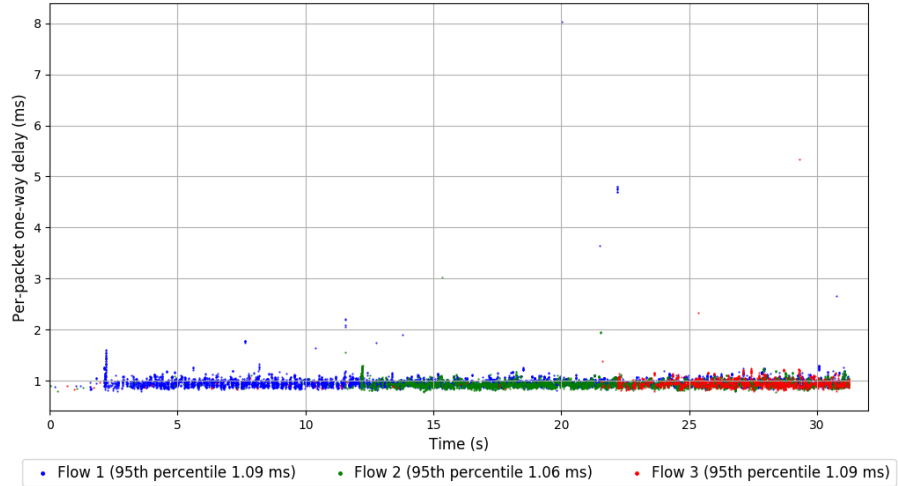
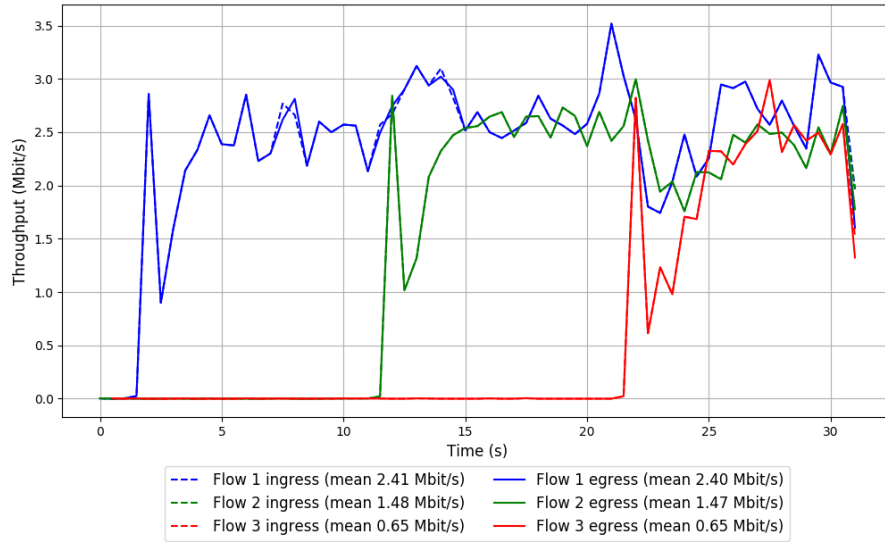
-- Flow 2:

Average throughput: 1.47 Mbit/s
95th percentile per-packet one-way delay: 1.061 ms
Loss rate: 0.21%

-- Flow 3:

Average throughput: 0.65 Mbit/s
95th percentile per-packet one-way delay: 1.092 ms
Loss rate: 0.48%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2017-12-20 06:23:50
End at: 2017-12-20 06:24:20
Local clock offset: 0.219 ms
Remote clock offset: -0.941 ms

Below is generated by plot.py at 2017-12-20 13:28:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.60 Mbit/s

95th percentile per-packet one-way delay: 1.161 ms

Loss rate: 0.21%

-- Flow 1:

Average throughput: 2.46 Mbit/s

95th percentile per-packet one-way delay: 1.158 ms

Loss rate: 0.20%

-- Flow 2:

Average throughput: 1.54 Mbit/s

95th percentile per-packet one-way delay: 1.174 ms

Loss rate: 0.00%

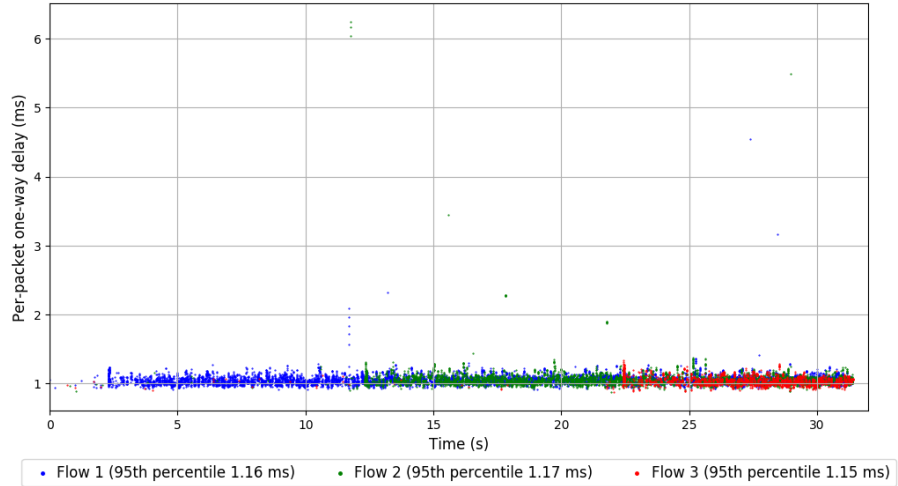
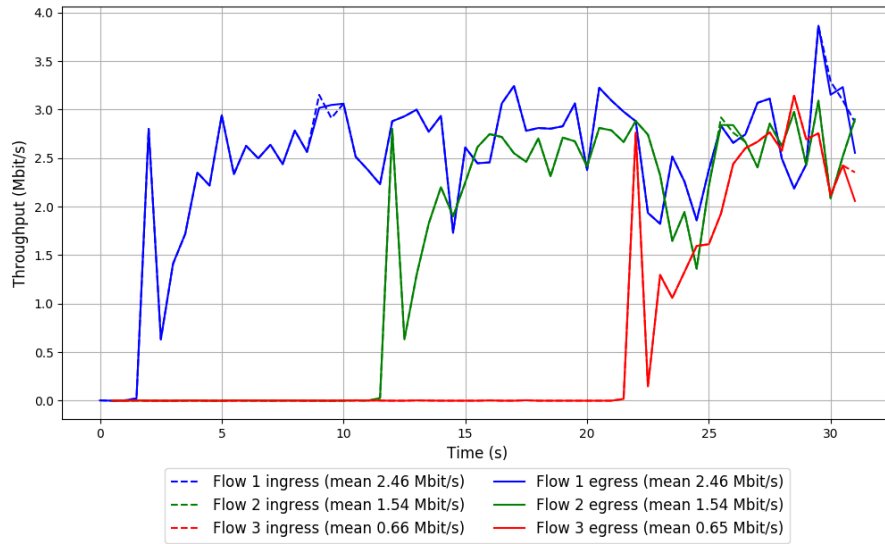
-- Flow 3:

Average throughput: 0.65 Mbit/s

95th percentile per-packet one-way delay: 1.151 ms

Loss rate: 0.73%

Run 5: Report of WebRTC media — Data Link

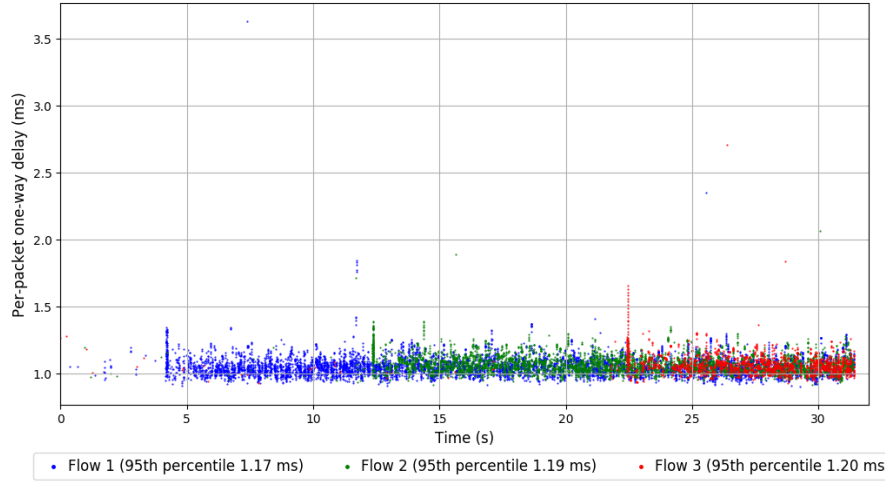
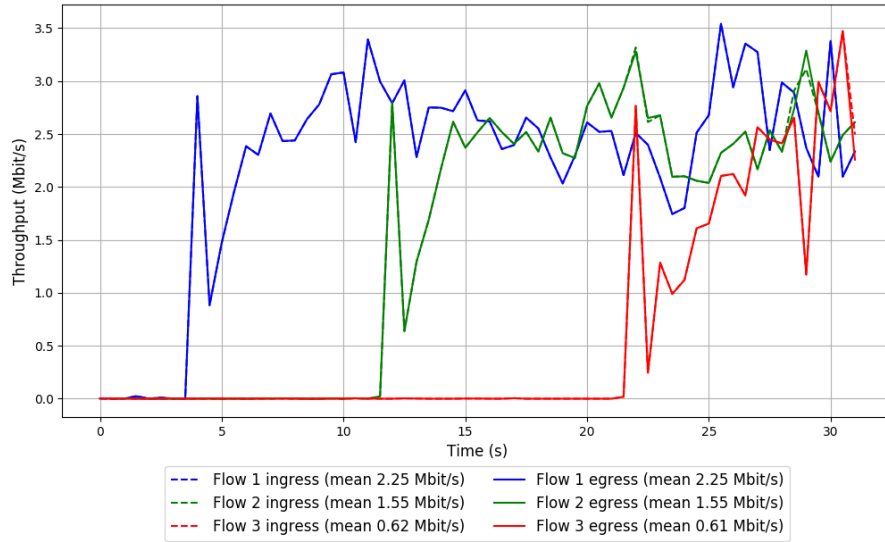


Run 6: Statistics of WebRTC media

Start at: 2017-12-20 06:46:05
End at: 2017-12-20 06:46:35
Local clock offset: 0.54 ms
Remote clock offset: -0.442 ms

```
# Below is generated by plot.py at 2017-12-20 13:28:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.34 Mbit/s
95th percentile per-packet one-way delay: 1.181 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 2.25 Mbit/s
95th percentile per-packet one-way delay: 1.166 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.55 Mbit/s
95th percentile per-packet one-way delay: 1.193 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.61 Mbit/s
95th percentile per-packet one-way delay: 1.197 ms
Loss rate: 0.62%
```

Run 6: Report of WebRTC media — Data Link

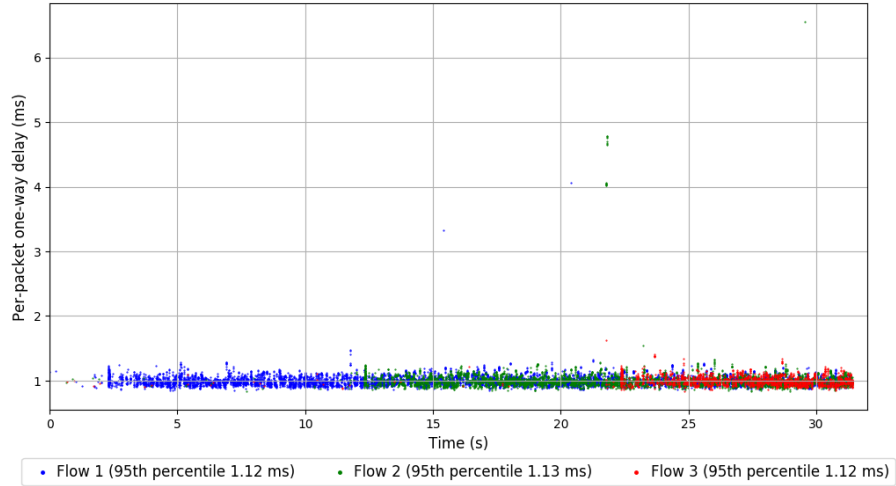
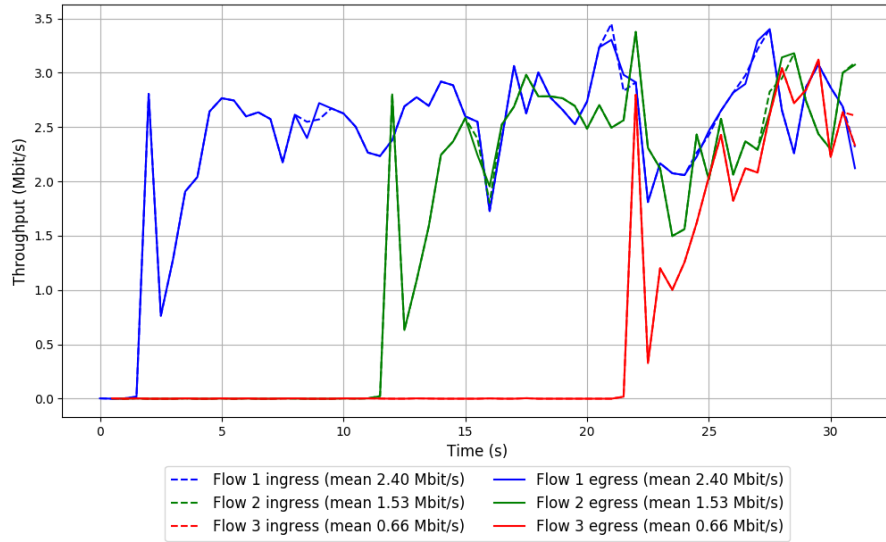


Run 7: Statistics of WebRTC media

Start at: 2017-12-20 07:08:18
End at: 2017-12-20 07:08:48
Local clock offset: 0.795 ms
Remote clock offset: -0.769 ms

```
# Below is generated by plot.py at 2017-12-20 13:28:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.54 Mbit/s
95th percentile per-packet one-way delay: 1.121 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 2.40 Mbit/s
95th percentile per-packet one-way delay: 1.117 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 1.53 Mbit/s
95th percentile per-packet one-way delay: 1.127 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 0.66 Mbit/s
95th percentile per-packet one-way delay: 1.122 ms
Loss rate: 0.67%
```


Run 7: Report of WebRTC media — Data Link

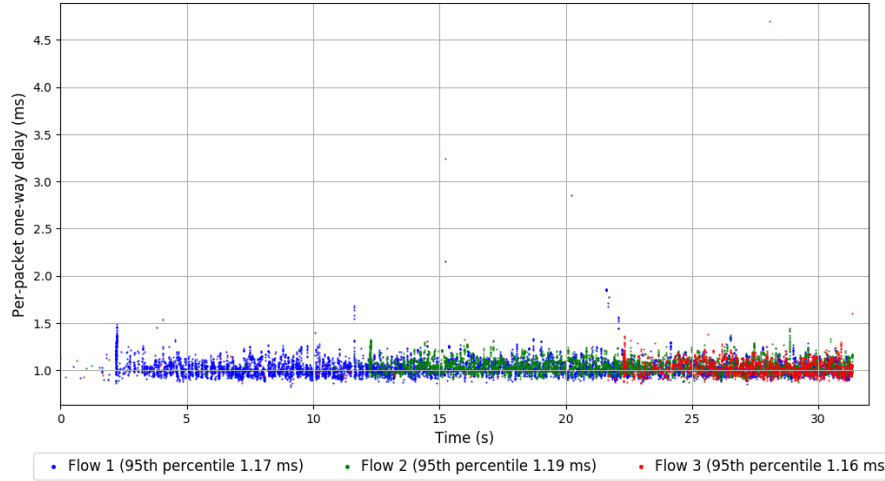
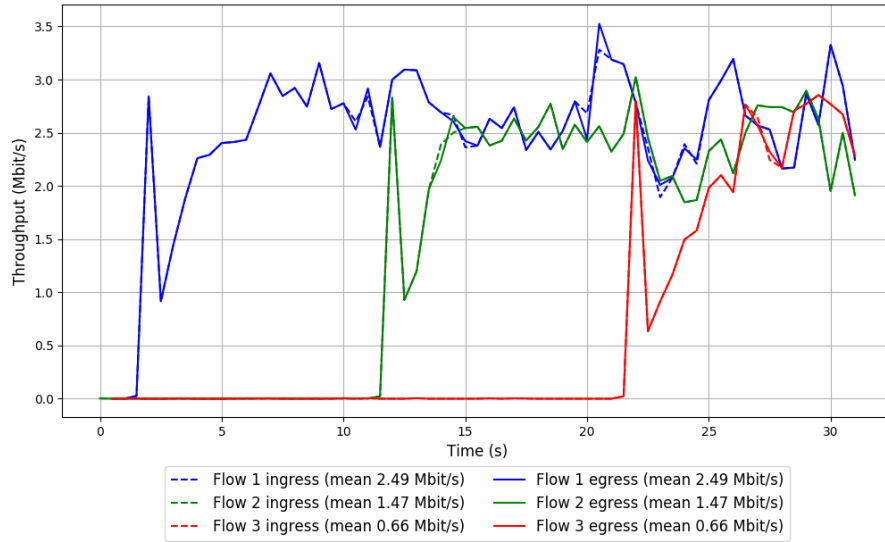


Run 8: Statistics of WebRTC media

Start at: 2017-12-20 07:30:39
End at: 2017-12-20 07:31:09
Local clock offset: 0.999 ms
Remote clock offset: -0.742 ms

```
# Below is generated by plot.py at 2017-12-20 13:28:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.57 Mbit/s
95th percentile per-packet one-way delay: 1.175 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.49 Mbit/s
95th percentile per-packet one-way delay: 1.169 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.47 Mbit/s
95th percentile per-packet one-way delay: 1.187 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.66 Mbit/s
95th percentile per-packet one-way delay: 1.157 ms
Loss rate: 0.00%
```

Run 8: Report of WebRTC media — Data Link

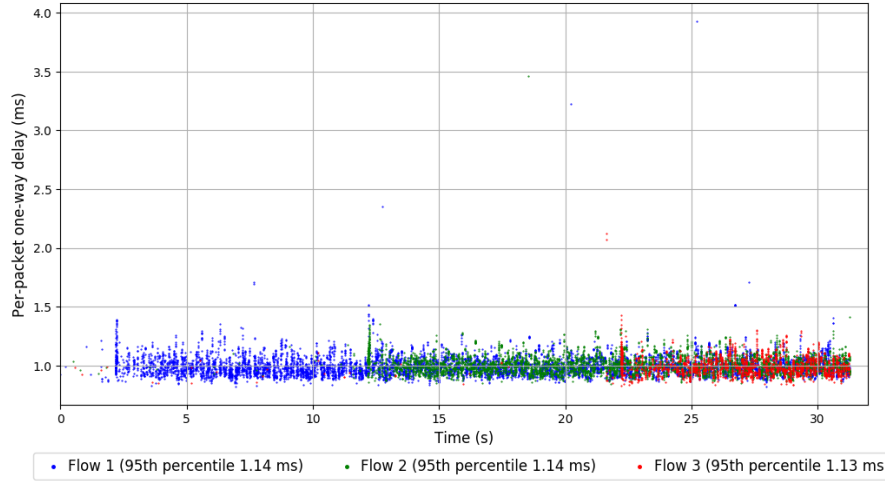
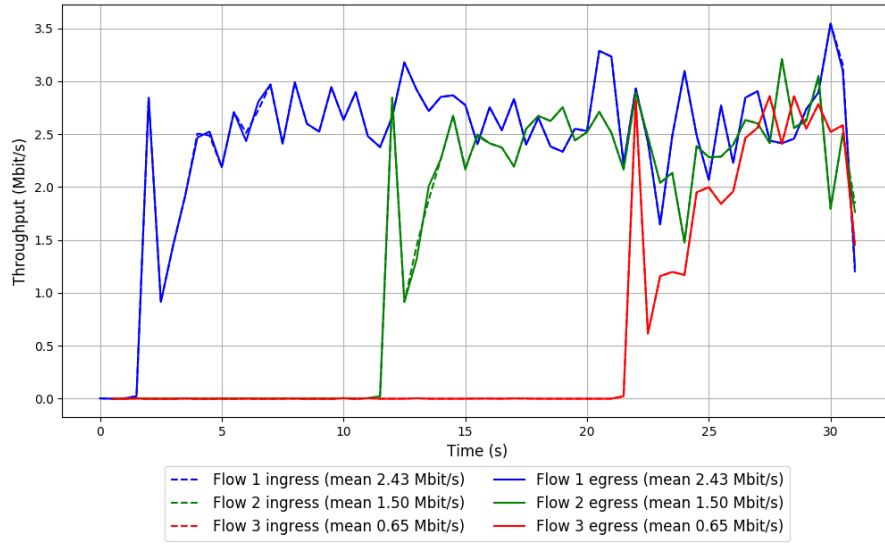


Run 9: Statistics of WebRTC media

Start at: 2017-12-20 07:52:53
End at: 2017-12-20 07:53:23
Local clock offset: 1.133 ms
Remote clock offset: -0.797 ms

```
# Below is generated by plot.py at 2017-12-20 13:28:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.54 Mbit/s
95th percentile per-packet one-way delay: 1.135 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 2.43 Mbit/s
95th percentile per-packet one-way delay: 1.135 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.50 Mbit/s
95th percentile per-packet one-way delay: 1.137 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 0.65 Mbit/s
95th percentile per-packet one-way delay: 1.133 ms
Loss rate: 0.00%
```

Run 9: Report of WebRTC media — Data Link

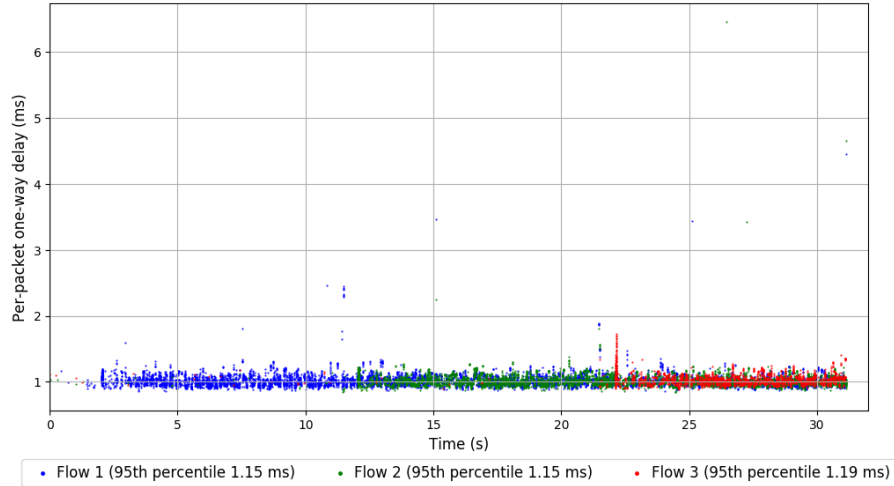
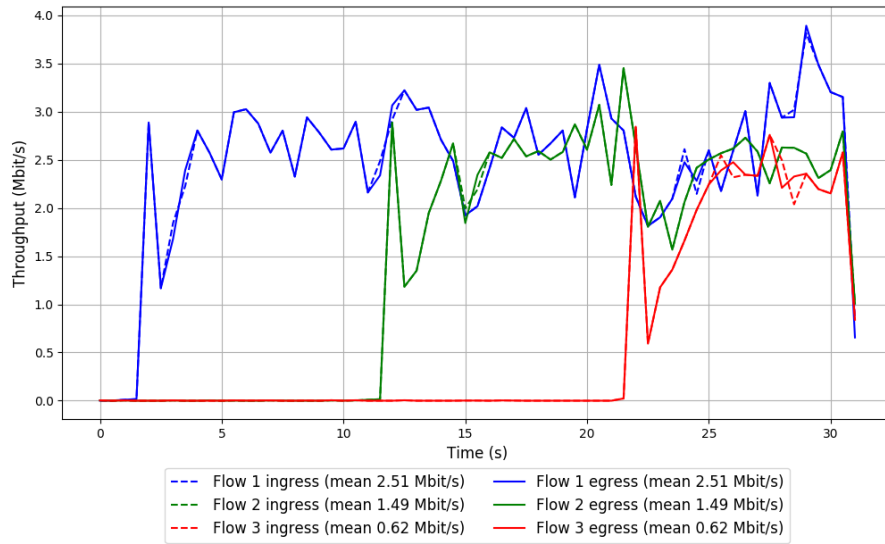


Run 10: Statistics of WebRTC media

Start at: 2017-12-20 08:15:07
End at: 2017-12-20 08:15:37
Local clock offset: 1.186 ms
Remote clock offset: -0.389 ms

```
# Below is generated by plot.py at 2017-12-20 13:28:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.59 Mbit/s
95th percentile per-packet one-way delay: 1.153 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 2.51 Mbit/s
95th percentile per-packet one-way delay: 1.147 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 1.49 Mbit/s
95th percentile per-packet one-way delay: 1.149 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.62 Mbit/s
95th percentile per-packet one-way delay: 1.186 ms
Loss rate: 0.00%
```

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2017-12-20 05:13:02
End at: 2017-12-20 05:13:32
Local clock offset: 0.166 ms
Remote clock offset: -2.291 ms

Below is generated by plot.py at 2017-12-20 13:28:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 48.80 Mbit/s
95th percentile per-packet one-way delay: 1.215 ms
Loss rate: 0.07%

-- Flow 1:

Average throughput: 24.56 Mbit/s
95th percentile per-packet one-way delay: 1.217 ms
Loss rate: 0.07%

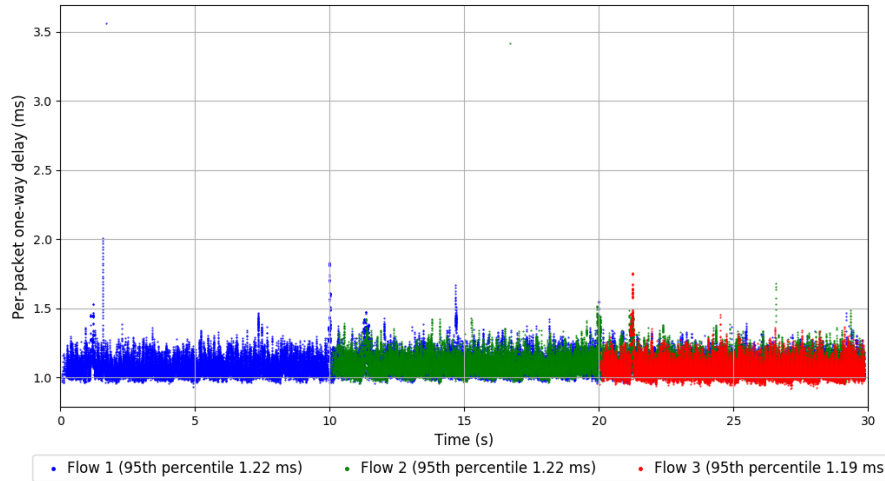
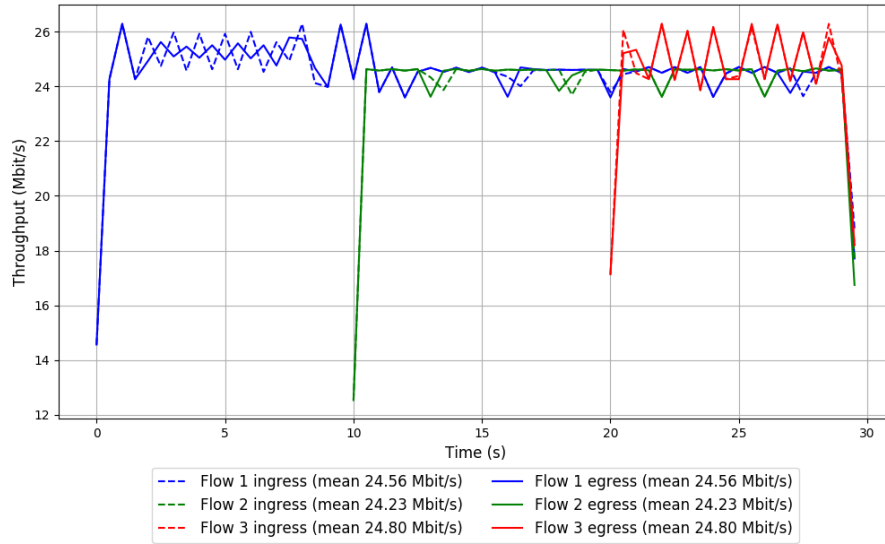
-- Flow 2:

Average throughput: 24.23 Mbit/s
95th percentile per-packet one-way delay: 1.222 ms
Loss rate: 0.11%

-- Flow 3:

Average throughput: 24.80 Mbit/s
95th percentile per-packet one-way delay: 1.191 ms
Loss rate: 0.00%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2017-12-20 05:35:12
End at: 2017-12-20 05:35:42
Local clock offset: 0.256 ms
Remote clock offset: -1.666 ms

Below is generated by plot.py at 2017-12-20 13:28:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 49.53 Mbit/s
95th percentile per-packet one-way delay: 1.204 ms
Loss rate: 0.04%

-- Flow 1:

Average throughput: 24.89 Mbit/s
95th percentile per-packet one-way delay: 1.200 ms
Loss rate: 0.08%

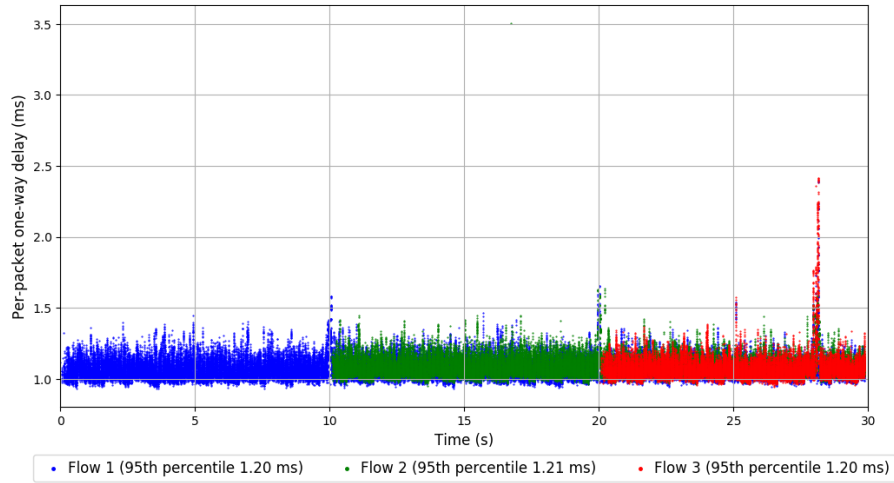
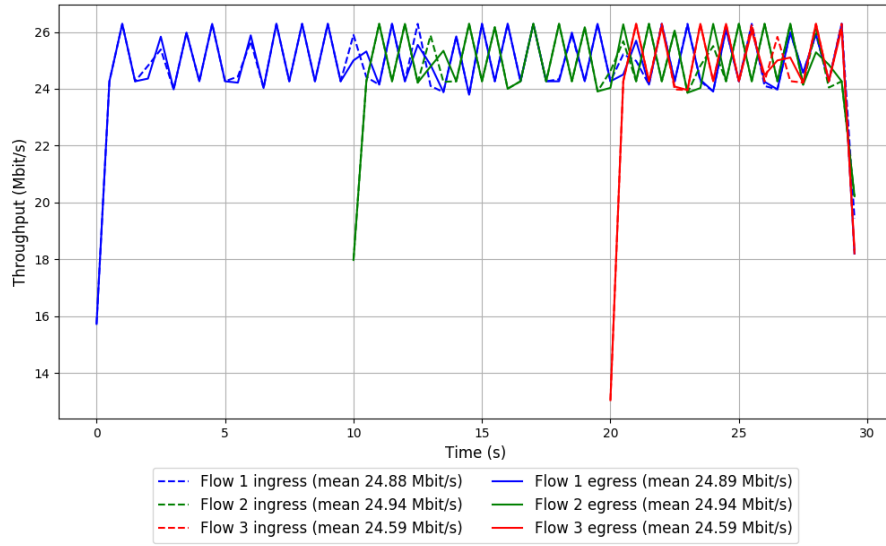
-- Flow 2:

Average throughput: 24.94 Mbit/s
95th percentile per-packet one-way delay: 1.213 ms
Loss rate: 0.00%

-- Flow 3:

Average throughput: 24.59 Mbit/s
95th percentile per-packet one-way delay: 1.196 ms
Loss rate: 0.00%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2017-12-20 05:57:30
End at: 2017-12-20 05:58:00
Local clock offset: 0.227 ms
Remote clock offset: -1.236 ms

Below is generated by plot.py at 2017-12-20 13:28:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 49.35 Mbit/s
95th percentile per-packet one-way delay: 1.208 ms
Loss rate: 0.17%

-- Flow 1:

Average throughput: 24.81 Mbit/s
95th percentile per-packet one-way delay: 1.208 ms
Loss rate: 0.14%

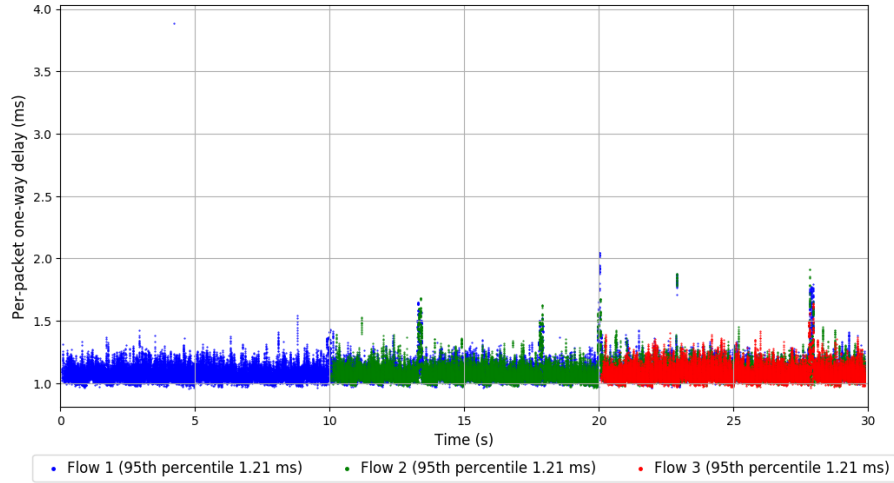
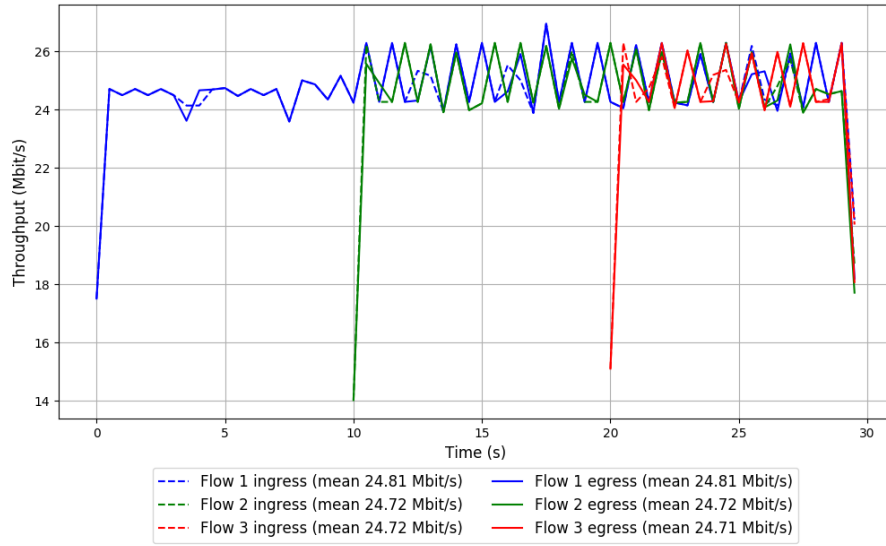
-- Flow 2:

Average throughput: 24.72 Mbit/s
95th percentile per-packet one-way delay: 1.209 ms
Loss rate: 0.10%

-- Flow 3:

Average throughput: 24.71 Mbit/s
95th percentile per-packet one-way delay: 1.206 ms
Loss rate: 0.41%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2017-12-20 06:19:53
End at: 2017-12-20 06:20:23
Local clock offset: 0.227 ms
Remote clock offset: -0.935 ms

Below is generated by plot.py at 2017-12-20 13:28:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 49.46 Mbit/s
95th percentile per-packet one-way delay: 1.160 ms
Loss rate: 0.07%

-- Flow 1:

Average throughput: 24.87 Mbit/s
95th percentile per-packet one-way delay: 1.167 ms
Loss rate: 0.13%

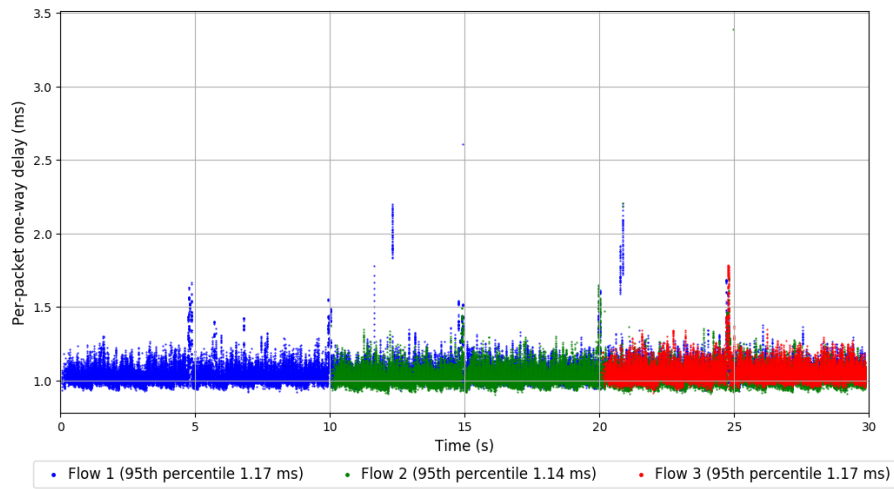
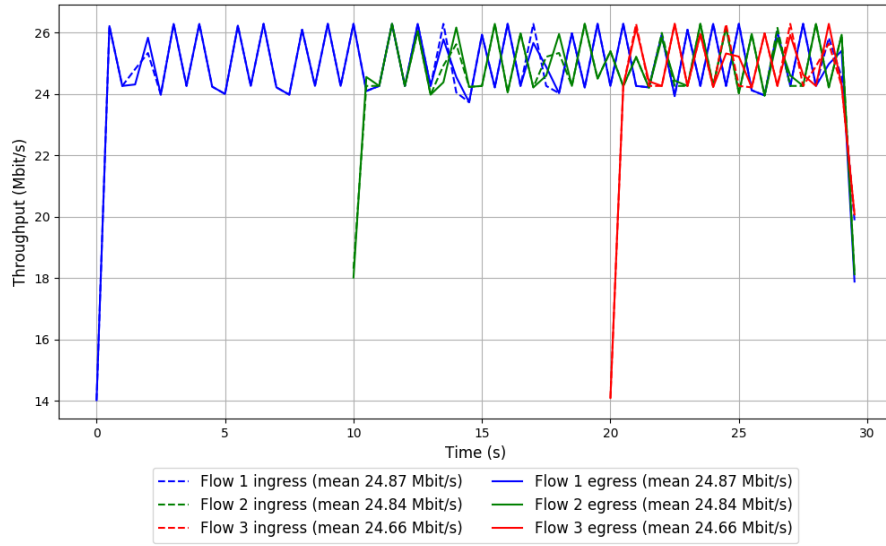
-- Flow 2:

Average throughput: 24.84 Mbit/s
95th percentile per-packet one-way delay: 1.142 ms
Loss rate: 0.00%

-- Flow 3:

Average throughput: 24.66 Mbit/s
95th percentile per-packet one-way delay: 1.172 ms
Loss rate: 0.00%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2017-12-20 06:42:06
End at: 2017-12-20 06:42:36
Local clock offset: 0.48 ms
Remote clock offset: -0.499 ms

Below is generated by plot.py at 2017-12-20 13:28:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 49.40 Mbit/s
95th percentile per-packet one-way delay: 1.268 ms
Loss rate: 0.04%

-- Flow 1:

Average throughput: 24.95 Mbit/s
95th percentile per-packet one-way delay: 1.307 ms
Loss rate: 0.00%

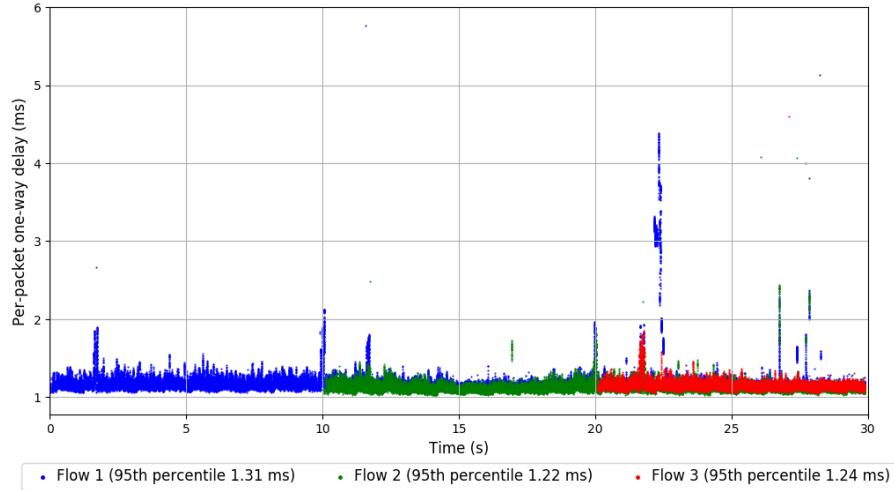
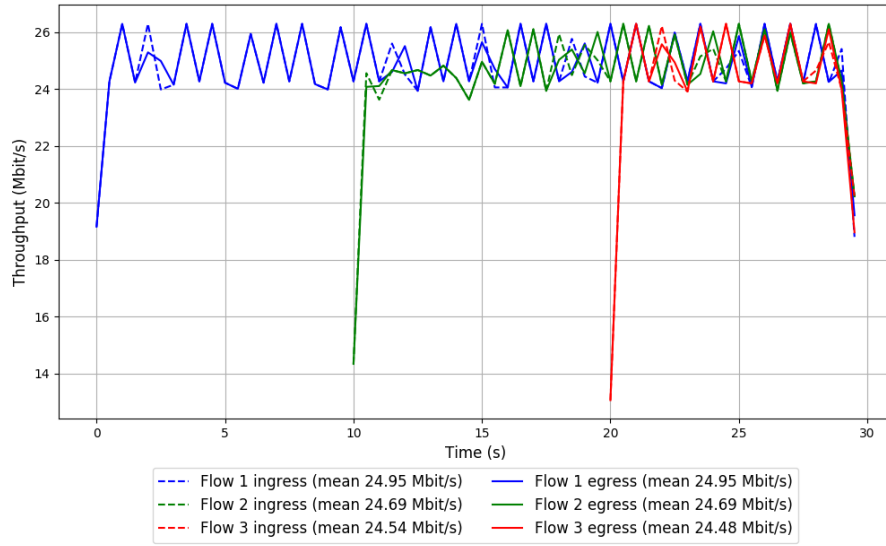
-- Flow 2:

Average throughput: 24.69 Mbit/s
95th percentile per-packet one-way delay: 1.222 ms
Loss rate: 0.00%

-- Flow 3:

Average throughput: 24.48 Mbit/s
95th percentile per-packet one-way delay: 1.238 ms
Loss rate: 0.26%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2017-12-20 07:04:21
End at: 2017-12-20 07:04:51
Local clock offset: 0.714 ms
Remote clock offset: -0.753 ms

Below is generated by plot.py at 2017-12-20 13:28:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 49.53 Mbit/s
95th percentile per-packet one-way delay: 1.151 ms
Loss rate: 0.14%

-- Flow 1:

Average throughput: 24.95 Mbit/s
95th percentile per-packet one-way delay: 1.159 ms
Loss rate: 0.14%

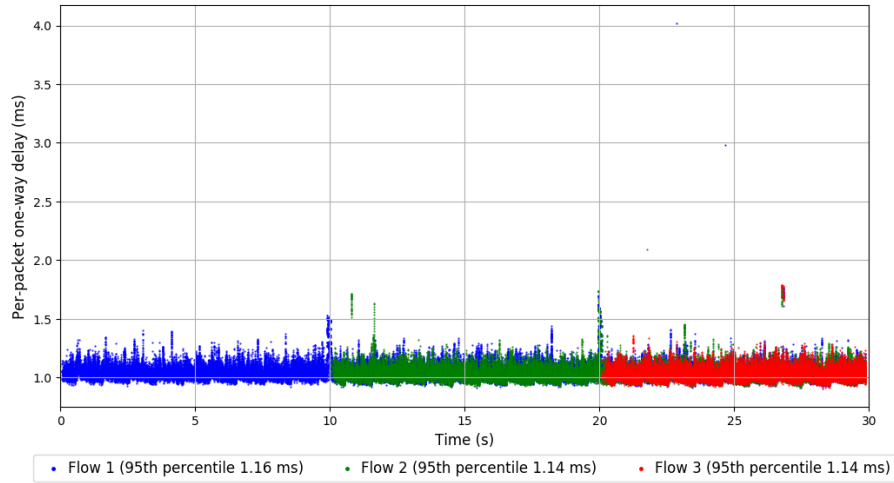
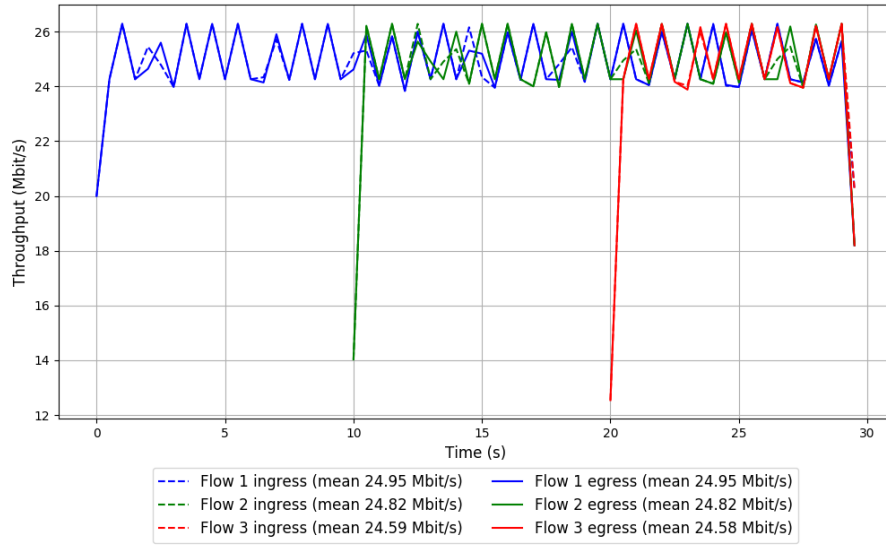
-- Flow 2:

Average throughput: 24.82 Mbit/s
95th percentile per-packet one-way delay: 1.144 ms
Loss rate: 0.00%

-- Flow 3:

Average throughput: 24.58 Mbit/s
95th percentile per-packet one-way delay: 1.137 ms
Loss rate: 0.42%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2017-12-20 07:26:42
End at: 2017-12-20 07:27:12
Local clock offset: 1.013 ms
Remote clock offset: -0.721 ms

Below is generated by plot.py at 2017-12-20 13:28:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 49.49 Mbit/s
95th percentile per-packet one-way delay: 1.325 ms
Loss rate: 0.14%

-- Flow 1:

Average throughput: 24.88 Mbit/s
95th percentile per-packet one-way delay: 1.339 ms
Loss rate: 0.00%

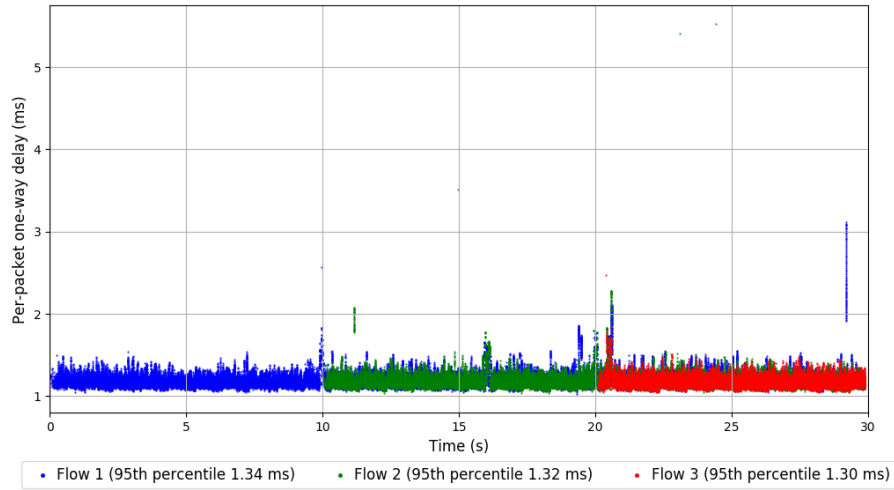
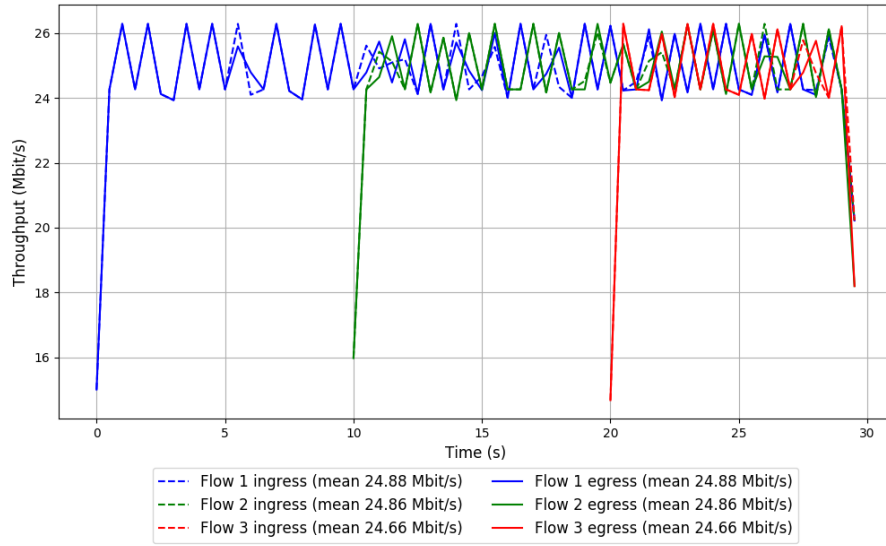
-- Flow 2:

Average throughput: 24.86 Mbit/s
95th percentile per-packet one-way delay: 1.317 ms
Loss rate: 0.20%

-- Flow 3:

Average throughput: 24.66 Mbit/s
95th percentile per-packet one-way delay: 1.301 ms
Loss rate: 0.42%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2017-12-20 07:49:00
End at: 2017-12-20 07:49:30
Local clock offset: 1.139 ms
Remote clock offset: -0.783 ms

Below is generated by plot.py at 2017-12-20 13:28:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 49.42 Mbit/s
95th percentile per-packet one-way delay: 1.102 ms
Loss rate: 0.13%

-- Flow 1:

Average throughput: 24.87 Mbit/s
95th percentile per-packet one-way delay: 1.099 ms
Loss rate: 0.13%

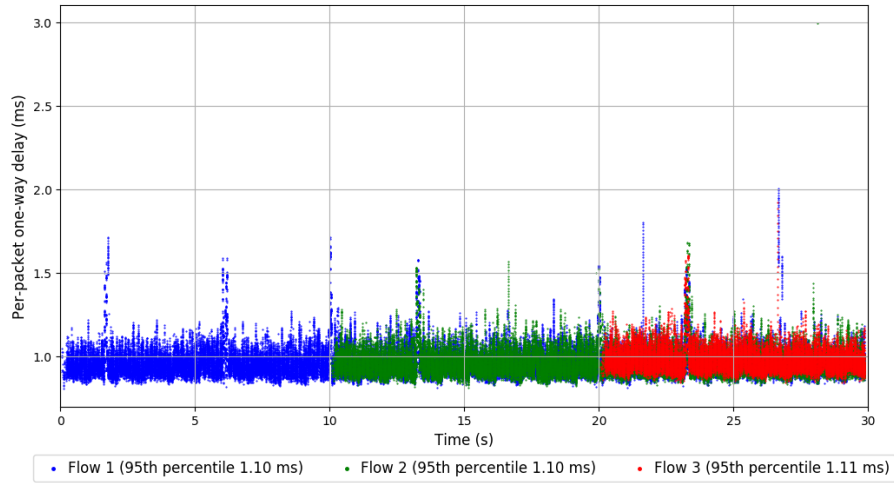
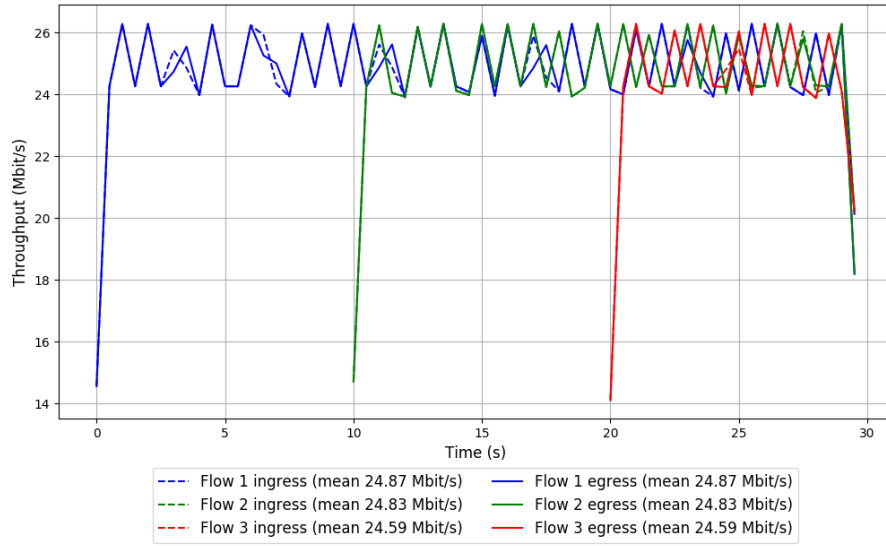
-- Flow 2:

Average throughput: 24.83 Mbit/s
95th percentile per-packet one-way delay: 1.102 ms
Loss rate: 0.21%

-- Flow 3:

Average throughput: 24.59 Mbit/s
95th percentile per-packet one-way delay: 1.108 ms
Loss rate: 0.00%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2017-12-20 08:11:15
End at: 2017-12-20 08:11:45
Local clock offset: 1.216 ms
Remote clock offset: -0.364 ms

Below is generated by plot.py at 2017-12-20 13:28:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 48.85 Mbit/s
95th percentile per-packet one-way delay: 1.236 ms
Loss rate: 0.17%

-- Flow 1:

Average throughput: 24.64 Mbit/s
95th percentile per-packet one-way delay: 1.243 ms
Loss rate: 0.14%

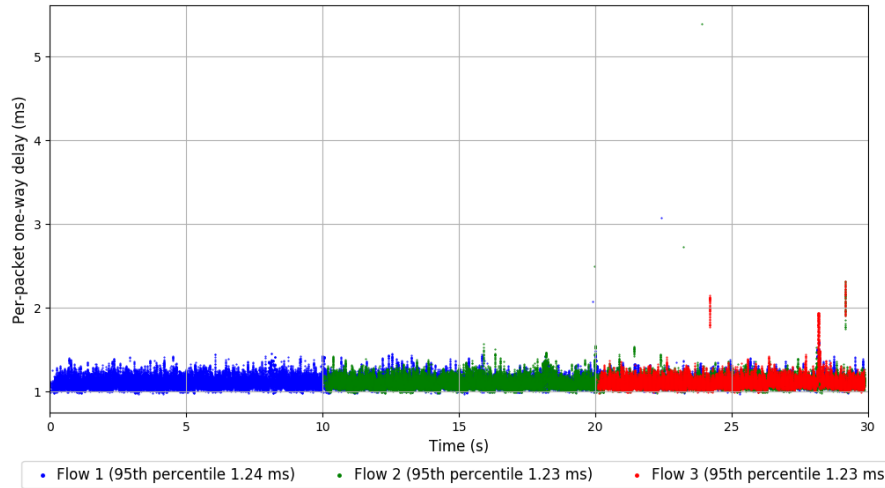
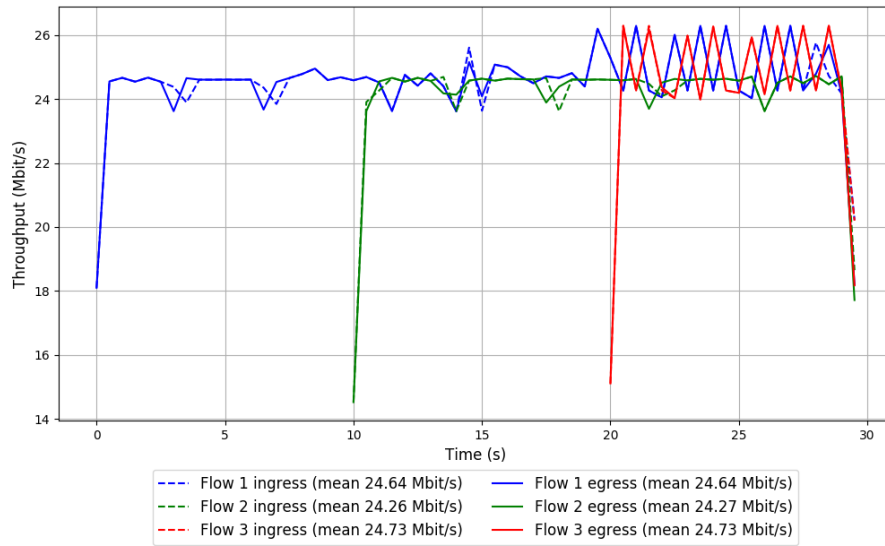
-- Flow 2:

Average throughput: 24.27 Mbit/s
95th percentile per-packet one-way delay: 1.226 ms
Loss rate: 0.10%

-- Flow 3:

Average throughput: 24.73 Mbit/s
95th percentile per-packet one-way delay: 1.234 ms
Loss rate: 0.42%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2017-12-20 08:33:33
End at: 2017-12-20 08:34:03
Local clock offset: 1.094 ms
Remote clock offset: -0.692 ms

Below is generated by plot.py at 2017-12-20 13:28:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 49.38 Mbit/s
95th percentile per-packet one-way delay: 1.146 ms
Loss rate: 0.07%

-- Flow 1:

Average throughput: 24.81 Mbit/s
95th percentile per-packet one-way delay: 1.157 ms
Loss rate: 0.00%

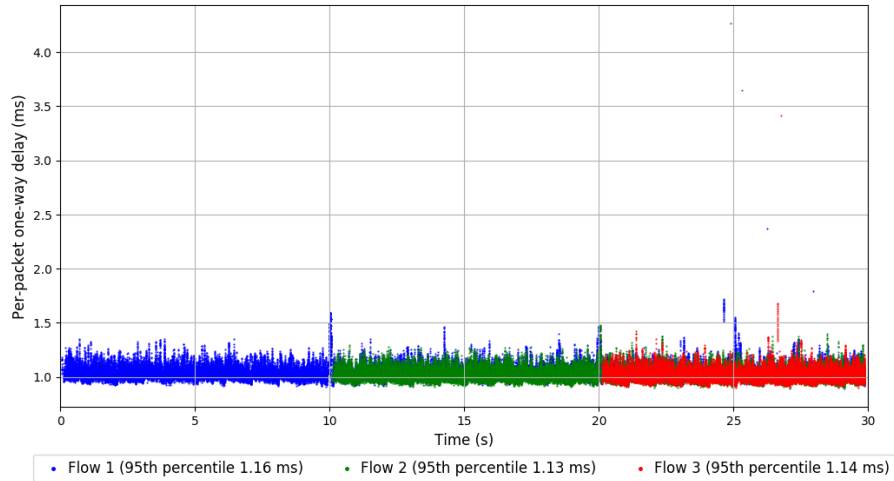
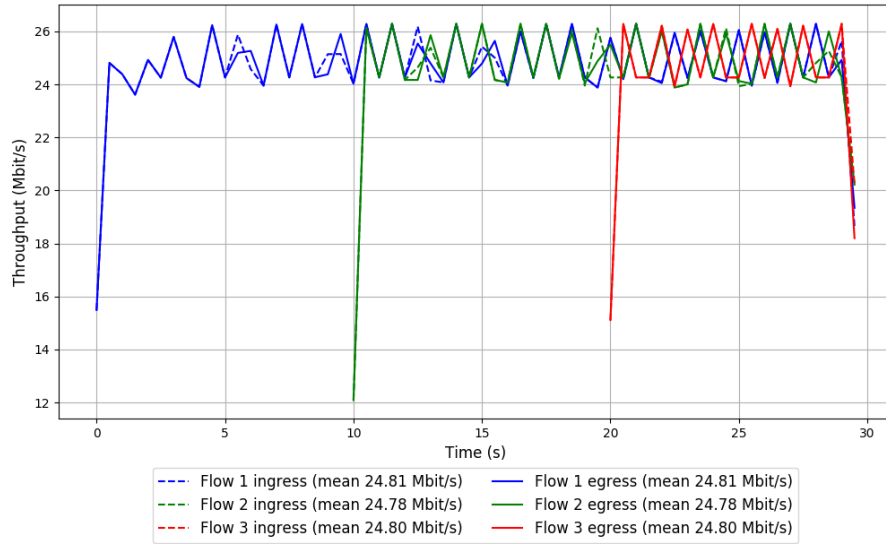
-- Flow 2:

Average throughput: 24.78 Mbit/s
95th percentile per-packet one-way delay: 1.134 ms
Loss rate: 0.00%

-- Flow 3:

Average throughput: 24.80 Mbit/s
95th percentile per-packet one-way delay: 1.136 ms
Loss rate: 0.42%

Run 10: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

Start at: 2017-12-20 05:03:31

End at: 2017-12-20 05:04:01

Local clock offset: 0.142 ms

Remote clock offset: -2.654 ms

Below is generated by plot.py at 2017-12-20 13:34:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 383.70 Mbit/s

95th percentile per-packet one-way delay: 1.343 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 215.30 Mbit/s

95th percentile per-packet one-way delay: 1.293 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 202.94 Mbit/s

95th percentile per-packet one-way delay: 1.375 ms

Loss rate: 0.06%

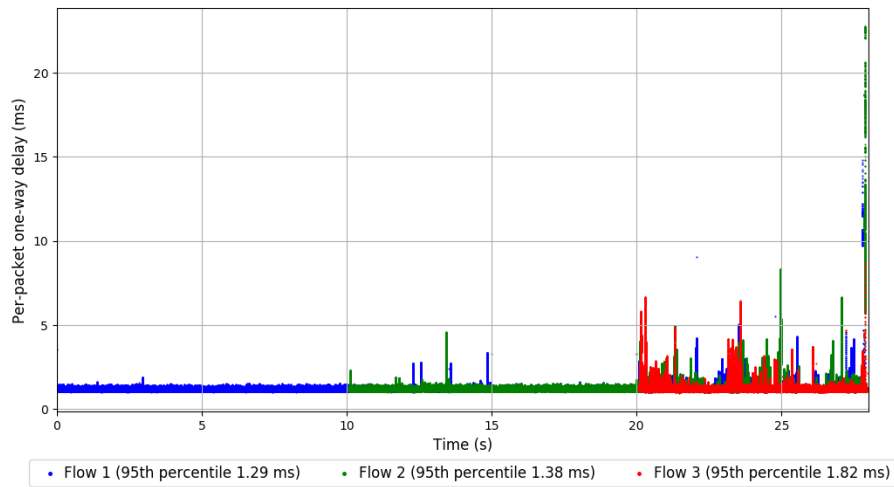
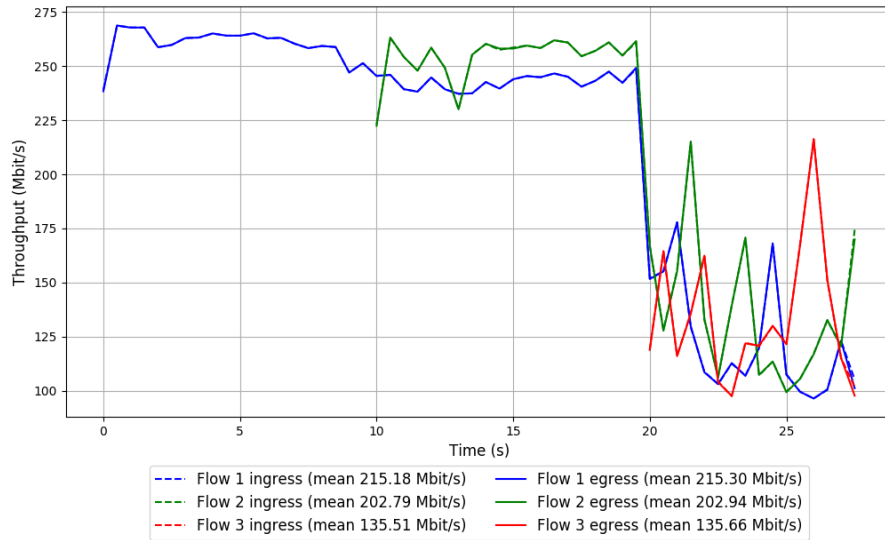
-- Flow 3:

Average throughput: 135.66 Mbit/s

95th percentile per-packet one-way delay: 1.817 ms

Loss rate: 0.19%

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



Run 2: Statistics of TaoVA-100x

Start at: 2017-12-20 05:25:48
End at: 2017-12-20 05:26:18
Local clock offset: 0.122 ms
Remote clock offset: -2.048 ms

Below is generated by plot.py at 2017-12-20 13:34:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 373.77 Mbit/s
95th percentile per-packet one-way delay: 1.326 ms
Loss rate: 0.06%

-- Flow 1:

Average throughput: 214.40 Mbit/s
95th percentile per-packet one-way delay: 1.252 ms
Loss rate: 0.04%

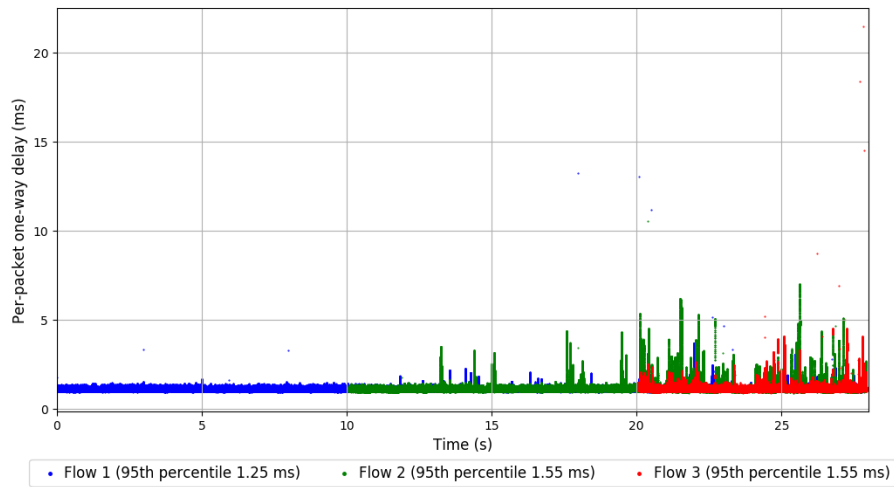
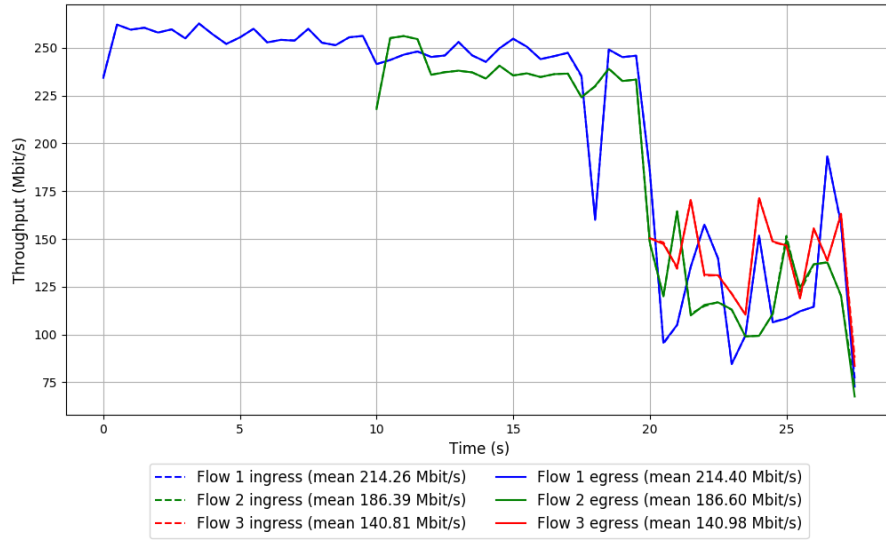
-- Flow 2:

Average throughput: 186.60 Mbit/s
95th percentile per-packet one-way delay: 1.552 ms
Loss rate: 0.07%

-- Flow 3:

Average throughput: 140.98 Mbit/s
95th percentile per-packet one-way delay: 1.549 ms
Loss rate: 0.20%

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



Run 3: Statistics of TaoVA-100x

Start at: 2017-12-20 05:48:01
End at: 2017-12-20 05:48:31
Local clock offset: 0.212 ms
Remote clock offset: -1.461 ms

Below is generated by plot.py at 2017-12-20 13:34:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 375.98 Mbit/s
95th percentile per-packet one-way delay: 1.316 ms
Loss rate: 0.10%

-- Flow 1:

Average throughput: 215.14 Mbit/s
95th percentile per-packet one-way delay: 1.276 ms
Loss rate: 0.04%

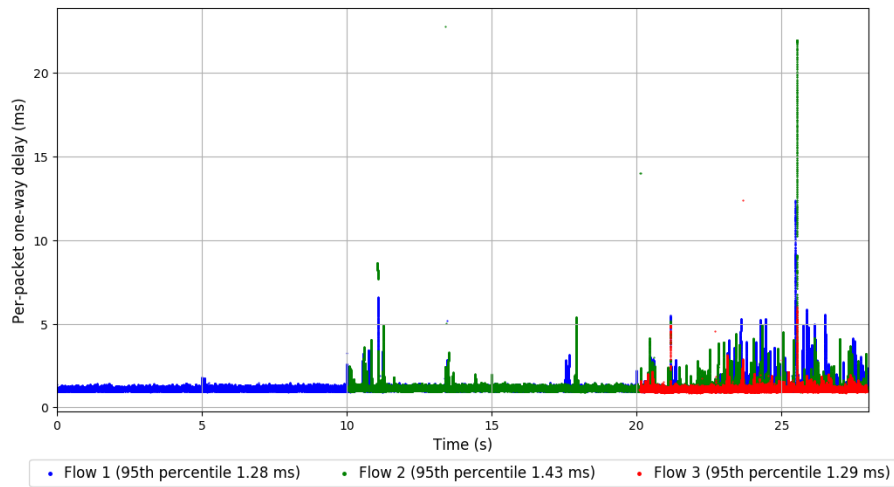
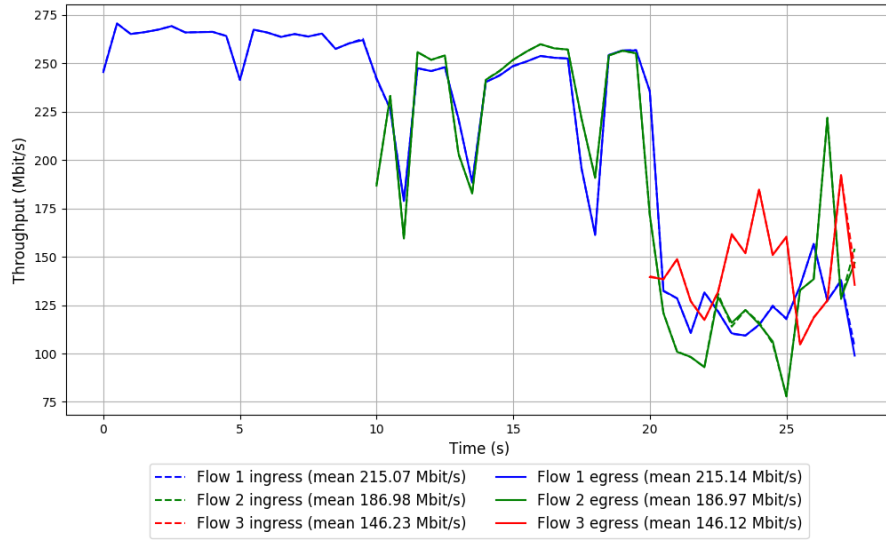
-- Flow 2:

Average throughput: 186.97 Mbit/s
95th percentile per-packet one-way delay: 1.428 ms
Loss rate: 0.11%

-- Flow 3:

Average throughput: 146.12 Mbit/s
95th percentile per-packet one-way delay: 1.289 ms
Loss rate: 0.36%

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



Run 4: Statistics of TaoVA-100x

Start at: 2017-12-20 06:10:21
End at: 2017-12-20 06:10:51
Local clock offset: 0.194 ms
Remote clock offset: -1.063 ms

Below is generated by plot.py at 2017-12-20 13:34:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 374.58 Mbit/s
95th percentile per-packet one-way delay: 1.339 ms
Loss rate: 0.06%

-- Flow 1:

Average throughput: 207.26 Mbit/s
95th percentile per-packet one-way delay: 1.178 ms
Loss rate: 0.03%

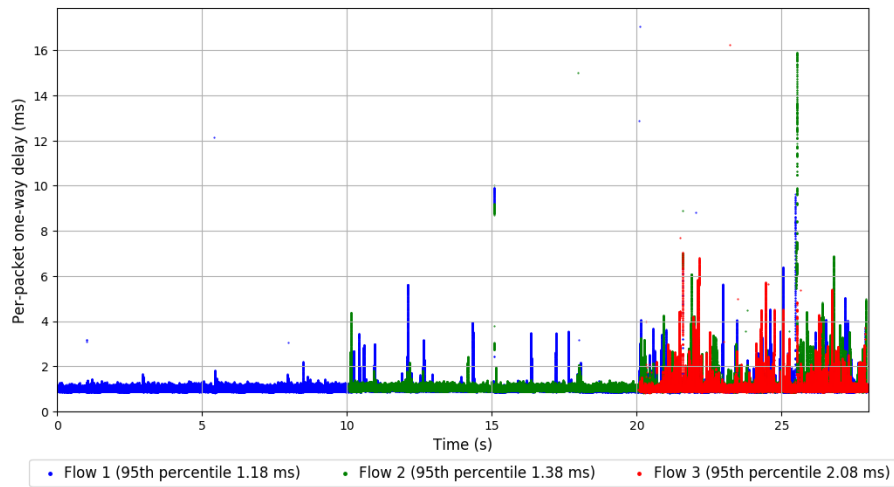
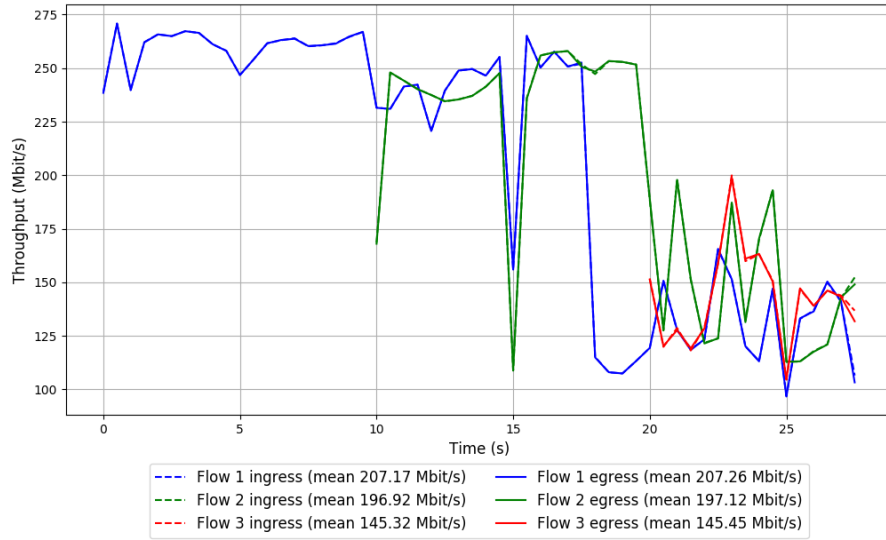
-- Flow 2:

Average throughput: 197.12 Mbit/s
95th percentile per-packet one-way delay: 1.383 ms
Loss rate: 0.05%

-- Flow 3:

Average throughput: 145.45 Mbit/s
95th percentile per-packet one-way delay: 2.075 ms
Loss rate: 0.24%

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



Run 5: Statistics of TaoVA-100x

Start at: 2017-12-20 06:32:38

End at: 2017-12-20 06:33:08

Local clock offset: 0.443 ms

Remote clock offset: -0.706 ms

Below is generated by plot.py at 2017-12-20 13:34:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 381.04 Mbit/s

95th percentile per-packet one-way delay: 1.375 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 217.05 Mbit/s

95th percentile per-packet one-way delay: 1.319 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 196.73 Mbit/s

95th percentile per-packet one-way delay: 1.461 ms

Loss rate: 0.05%

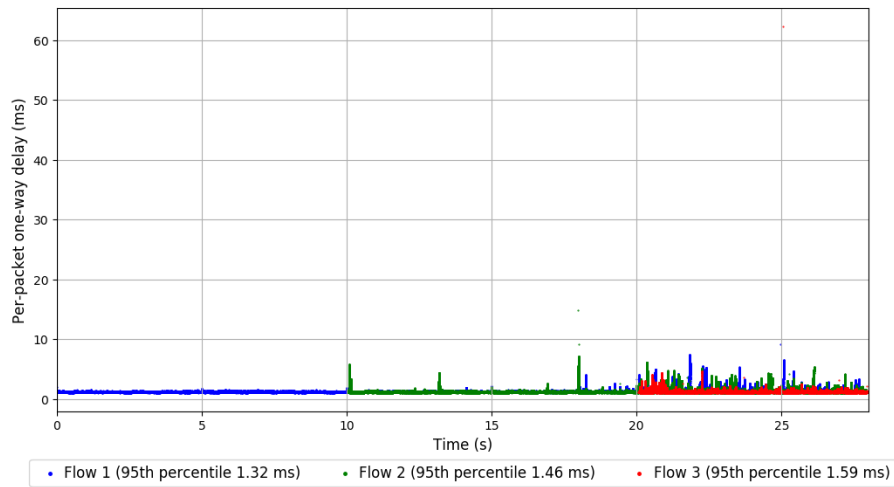
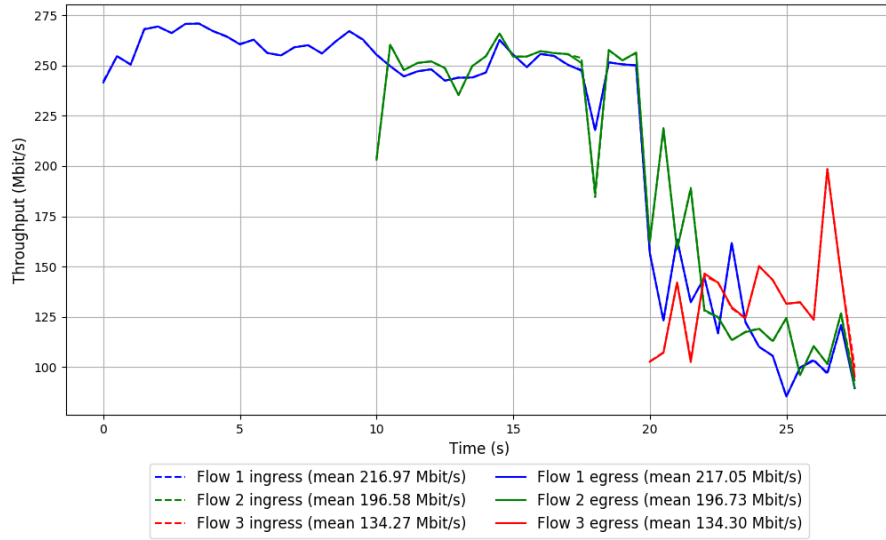
-- Flow 3:

Average throughput: 134.30 Mbit/s

95th percentile per-packet one-way delay: 1.589 ms

Loss rate: 0.22%

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



Run 6: Statistics of TaoVA-100x

Start at: 2017-12-20 06:54:57
End at: 2017-12-20 06:55:27
Local clock offset: 0.561 ms
Remote clock offset: -0.657 ms

Below is generated by plot.py at 2017-12-20 13:35:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 394.65 Mbit/s
95th percentile per-packet one-way delay: 1.232 ms
Loss rate: 0.07%

-- Flow 1:

Average throughput: 228.12 Mbit/s
95th percentile per-packet one-way delay: 1.173 ms
Loss rate: 0.04%

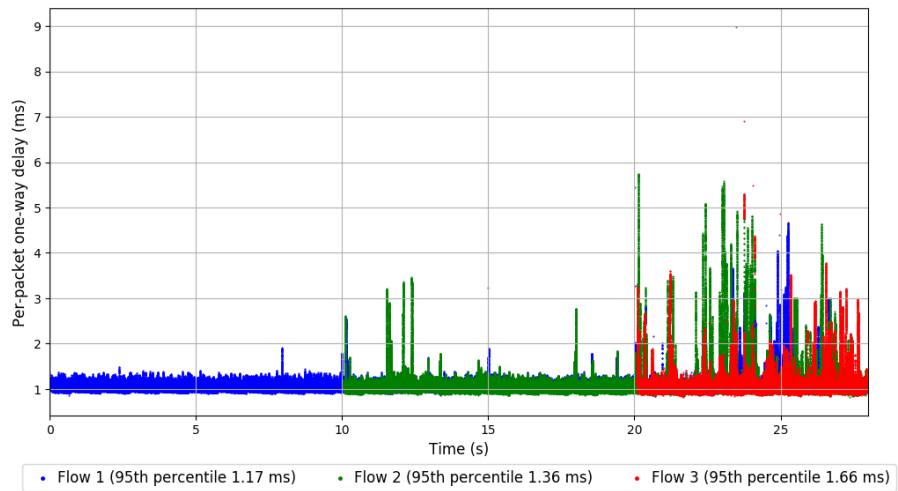
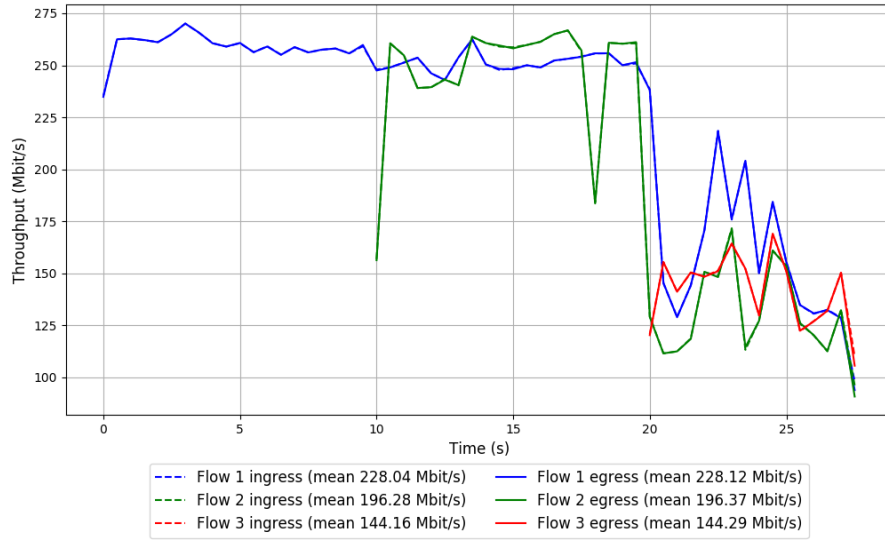
-- Flow 2:

Average throughput: 196.37 Mbit/s
95th percentile per-packet one-way delay: 1.363 ms
Loss rate: 0.08%

-- Flow 3:

Average throughput: 144.29 Mbit/s
95th percentile per-packet one-way delay: 1.655 ms
Loss rate: 0.20%

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



Run 7: Statistics of TaoVA-100x

Start at: 2017-12-20 07:17:10
End at: 2017-12-20 07:17:40
Local clock offset: 0.964 ms
Remote clock offset: -0.652 ms

Below is generated by plot.py at 2017-12-20 13:36:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 382.15 Mbit/s
95th percentile per-packet one-way delay: 1.559 ms
Loss rate: 0.09%

-- Flow 1:

Average throughput: 219.85 Mbit/s
95th percentile per-packet one-way delay: 1.378 ms
Loss rate: 0.08%

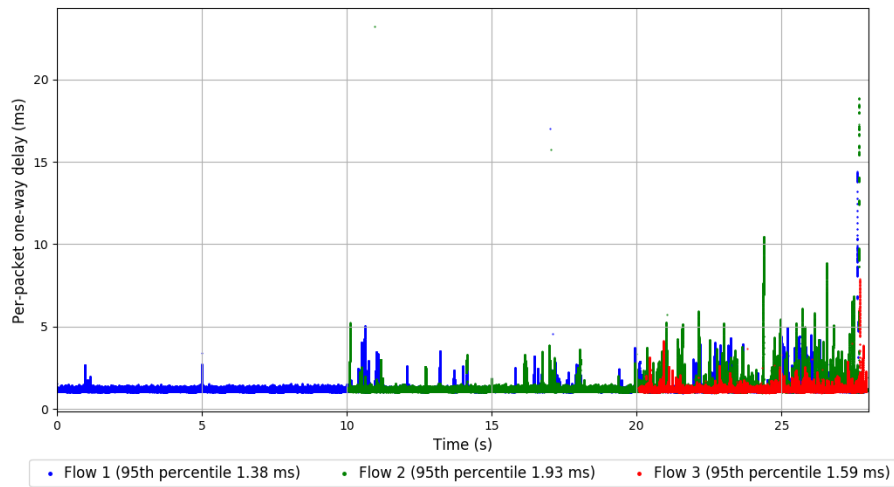
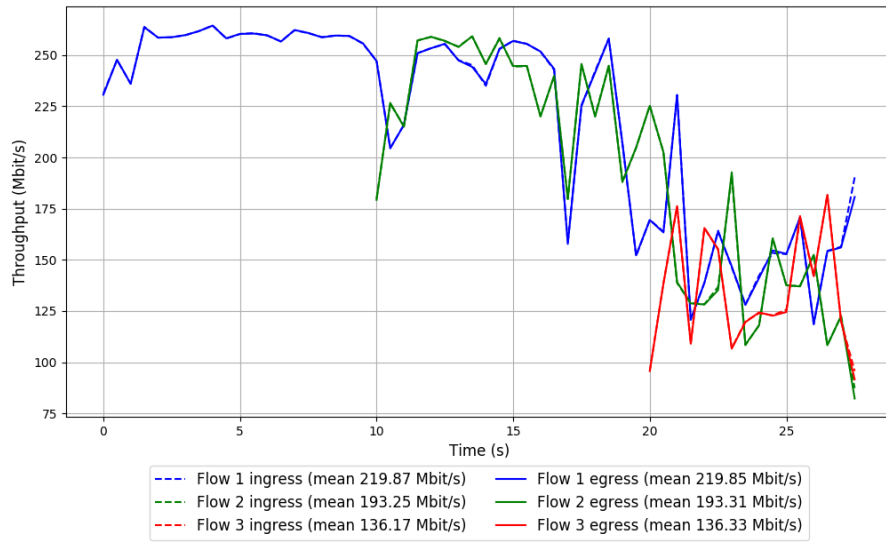
-- Flow 2:

Average throughput: 193.31 Mbit/s
95th percentile per-packet one-way delay: 1.929 ms
Loss rate: 0.07%

-- Flow 3:

Average throughput: 136.33 Mbit/s
95th percentile per-packet one-way delay: 1.589 ms
Loss rate: 0.20%

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



Run 8: Statistics of TaoVA-100x

Start at: 2017-12-20 07:39:23

End at: 2017-12-20 07:39:53

Local clock offset: 1.1 ms

Remote clock offset: -0.865 ms

Below is generated by plot.py at 2017-12-20 13:38:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 385.11 Mbit/s

95th percentile per-packet one-way delay: 1.214 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 217.94 Mbit/s

95th percentile per-packet one-way delay: 1.186 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 190.50 Mbit/s

95th percentile per-packet one-way delay: 1.261 ms

Loss rate: 0.04%

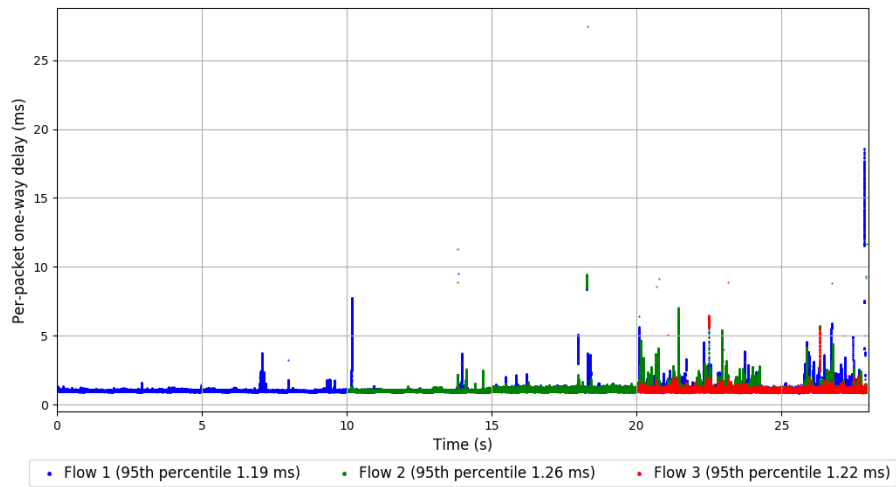
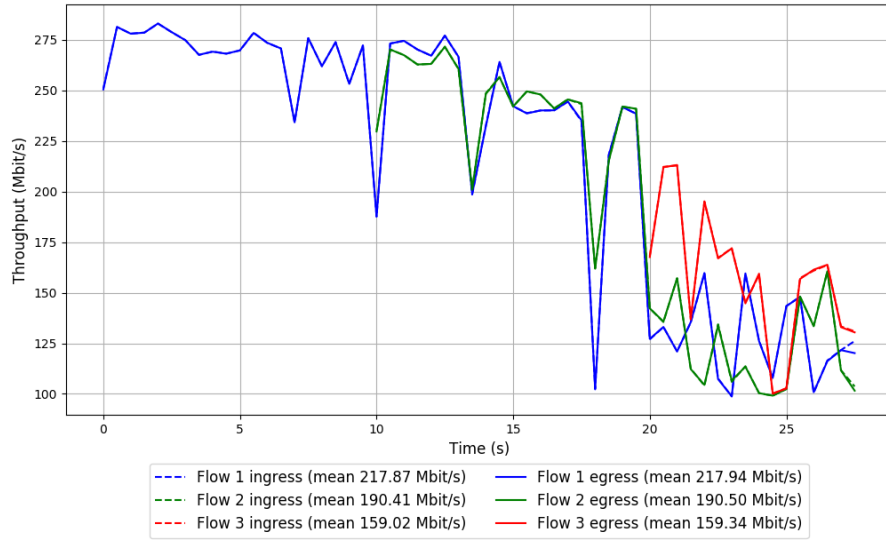
-- Flow 3:

Average throughput: 159.34 Mbit/s

95th percentile per-packet one-way delay: 1.216 ms

Loss rate: 0.04%

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



Run 9: Statistics of TaoVA-100x

Start at: 2017-12-20 08:01:41
End at: 2017-12-20 08:02:12
Local clock offset: 1.251 ms
Remote clock offset: -0.559 ms

Below is generated by plot.py at 2017-12-20 13:43:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 394.44 Mbit/s
95th percentile per-packet one-way delay: 1.433 ms
Loss rate: 0.10%

-- Flow 1:

Average throughput: 216.33 Mbit/s
95th percentile per-packet one-way delay: 1.237 ms
Loss rate: 0.07%

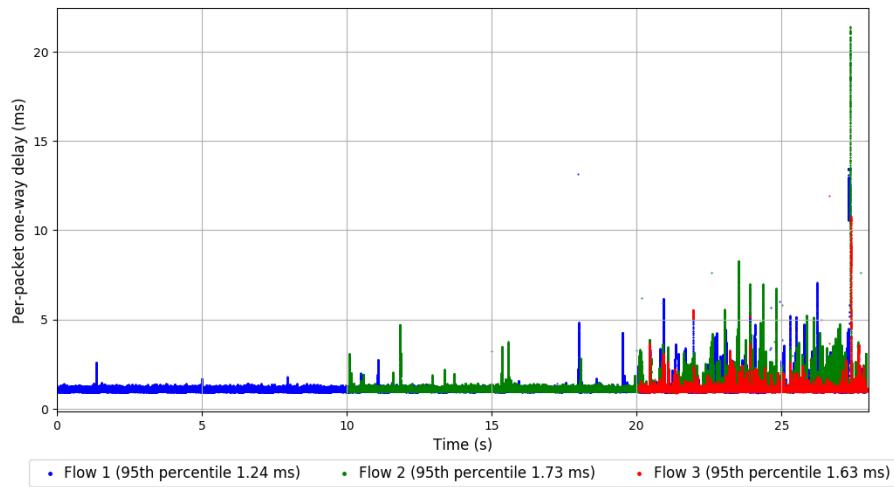
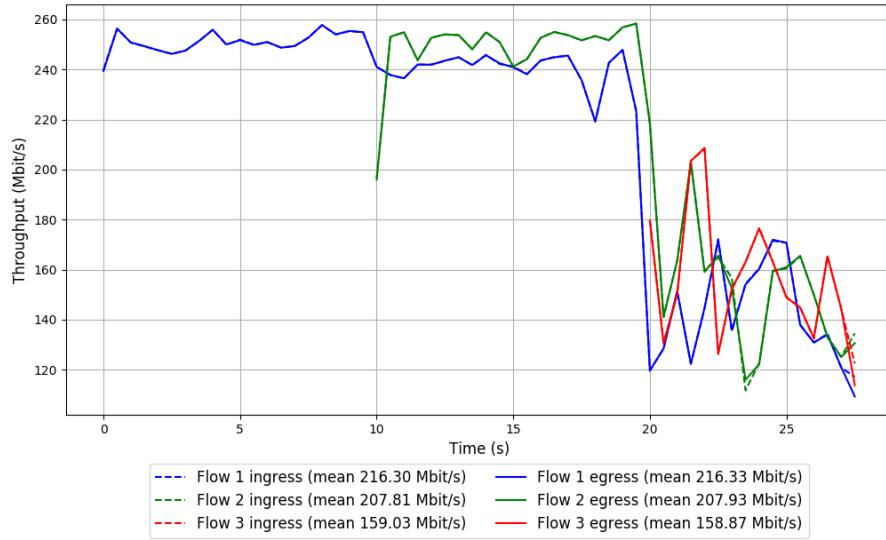
-- Flow 2:

Average throughput: 207.93 Mbit/s
95th percentile per-packet one-way delay: 1.731 ms
Loss rate: 0.06%

-- Flow 3:

Average throughput: 158.87 Mbit/s
95th percentile per-packet one-way delay: 1.627 ms
Loss rate: 0.36%

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



Run 10: Statistics of TaoVA-100x

Start at: 2017-12-20 08:23:57

End at: 2017-12-20 08:24:27

Local clock offset: 1.155 ms

Remote clock offset: -0.648 ms

Below is generated by plot.py at 2017-12-20 13:43:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 392.86 Mbit/s

95th percentile per-packet one-way delay: 1.434 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 224.31 Mbit/s

95th percentile per-packet one-way delay: 1.311 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 199.22 Mbit/s

95th percentile per-packet one-way delay: 1.553 ms

Loss rate: 0.09%

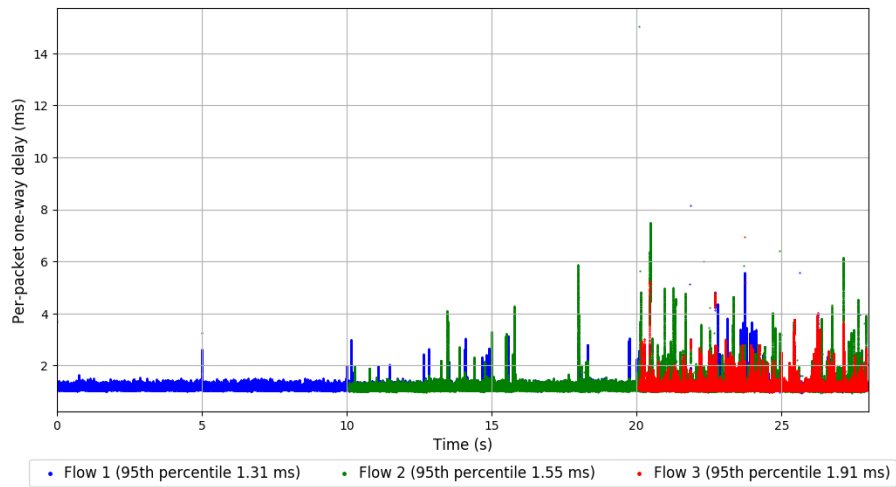
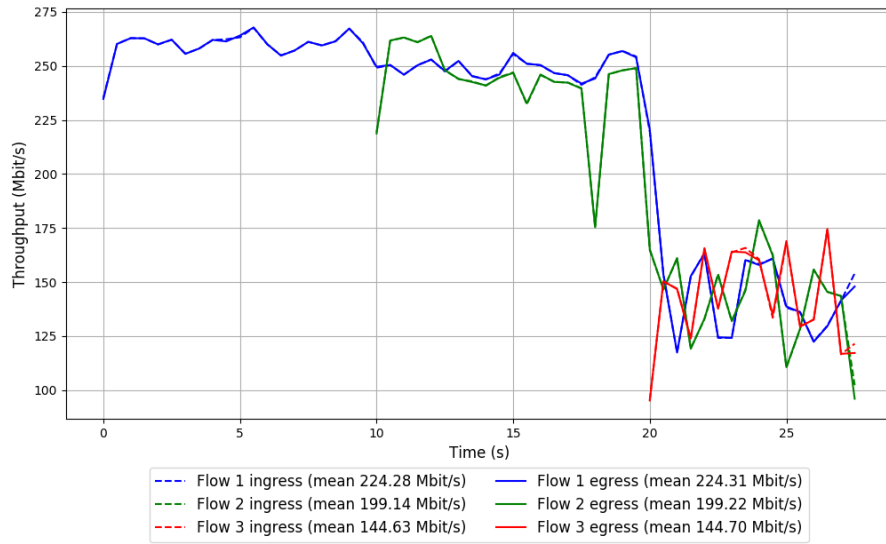
-- Flow 3:

Average throughput: 144.70 Mbit/s

95th percentile per-packet one-way delay: 1.911 ms

Loss rate: 0.19%

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



Run 1: Statistics of TCP Vegas

Start at: 2017-12-20 05:15:24
End at: 2017-12-20 05:15:54
Local clock offset: 0.074 ms
Remote clock offset: -2.335 ms

Below is generated by plot.py at 2017-12-20 13:43:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 526.96 Mbit/s
95th percentile per-packet one-way delay: 1.680 ms
Loss rate: 0.09%

-- Flow 1:

Average throughput: 250.55 Mbit/s
95th percentile per-packet one-way delay: 1.651 ms
Loss rate: 0.07%

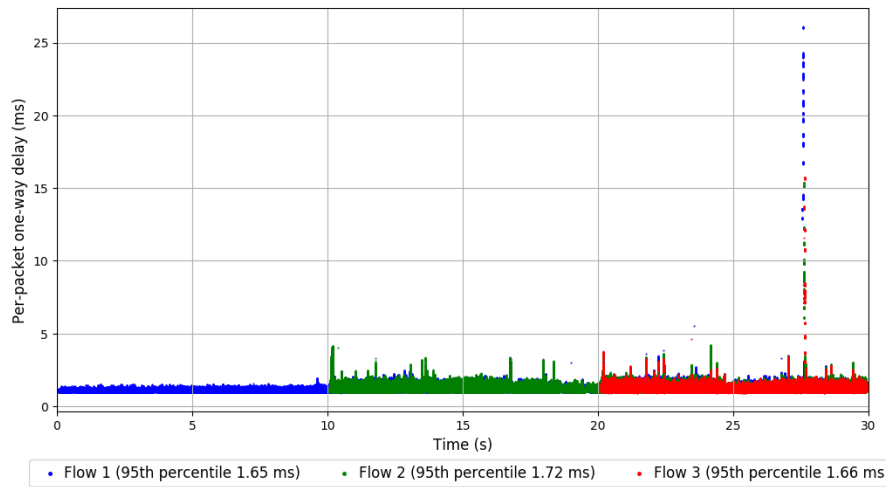
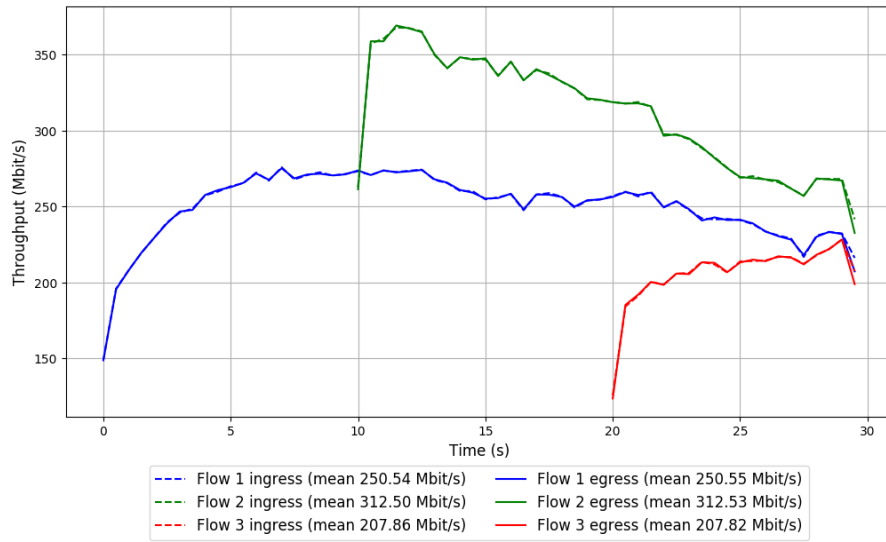
-- Flow 2:

Average throughput: 312.53 Mbit/s
95th percentile per-packet one-way delay: 1.715 ms
Loss rate: 0.09%

-- Flow 3:

Average throughput: 207.82 Mbit/s
95th percentile per-packet one-way delay: 1.663 ms
Loss rate: 0.22%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2017-12-20 05:37:35
End at: 2017-12-20 05:38:05
Local clock offset: 0.193 ms
Remote clock offset: -1.707 ms

Below is generated by plot.py at 2017-12-20 13:43:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 493.13 Mbit/s
95th percentile per-packet one-way delay: 2.959 ms
Loss rate: 0.10%

-- Flow 1:

Average throughput: 238.17 Mbit/s
95th percentile per-packet one-way delay: 2.694 ms
Loss rate: 0.06%

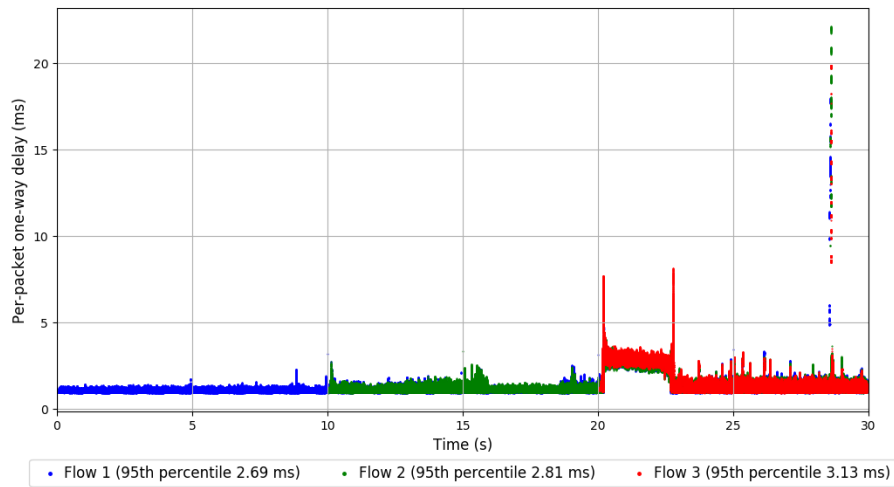
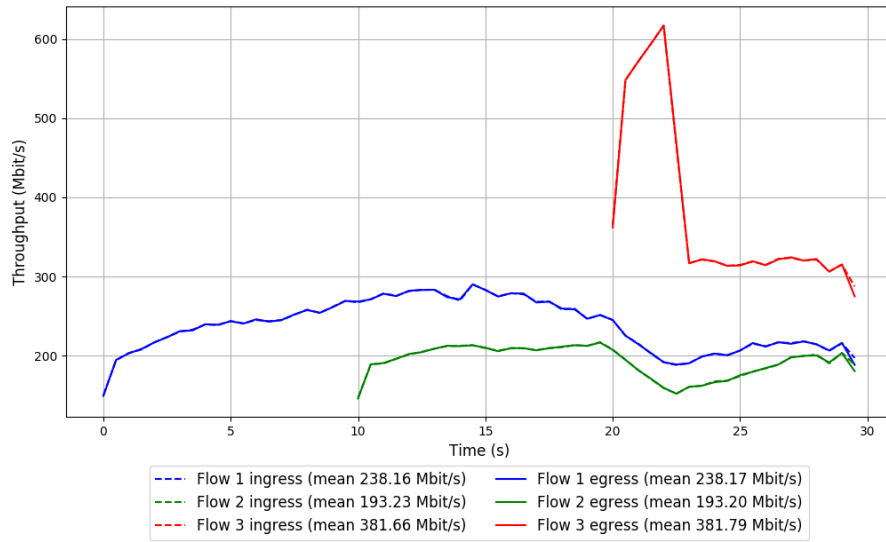
-- Flow 2:

Average throughput: 193.20 Mbit/s
95th percentile per-packet one-way delay: 2.812 ms
Loss rate: 0.11%

-- Flow 3:

Average throughput: 381.79 Mbit/s
95th percentile per-packet one-way delay: 3.127 ms
Loss rate: 0.17%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2017-12-20 05:59:52
End at: 2017-12-20 06:00:22
Local clock offset: 0.314 ms
Remote clock offset: -1.182 ms

Below is generated by plot.py at 2017-12-20 13:43:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 584.91 Mbit/s
95th percentile per-packet one-way delay: 1.886 ms
Loss rate: 0.09%

-- Flow 1:

Average throughput: 309.89 Mbit/s
95th percentile per-packet one-way delay: 1.834 ms
Loss rate: 0.05%

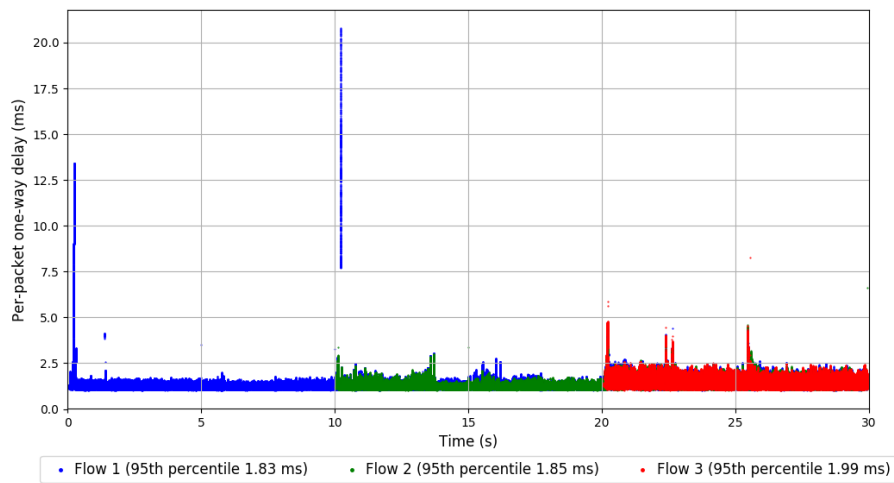
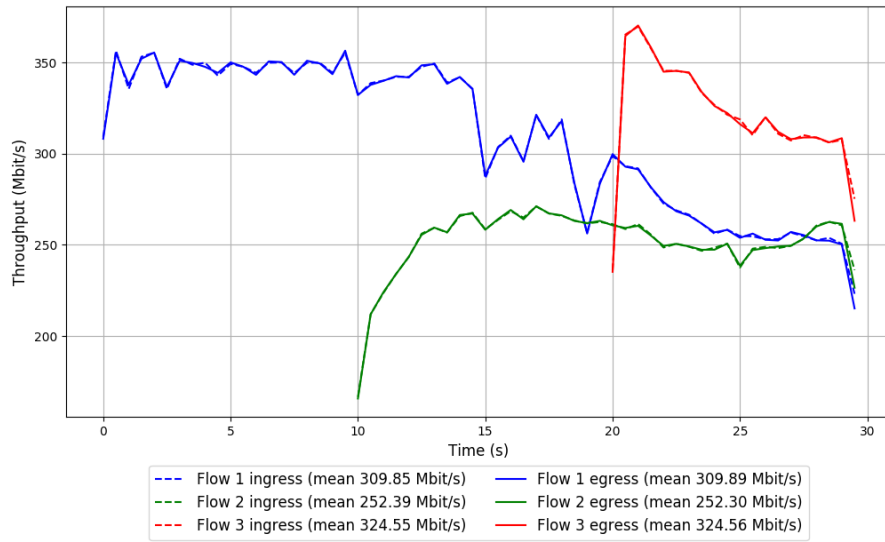
-- Flow 2:

Average throughput: 252.30 Mbit/s
95th percentile per-packet one-way delay: 1.855 ms
Loss rate: 0.10%

-- Flow 3:

Average throughput: 324.56 Mbit/s
95th percentile per-packet one-way delay: 1.991 ms
Loss rate: 0.19%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2017-12-20 06:22:16
End at: 2017-12-20 06:22:46
Local clock offset: 0.321 ms
Remote clock offset: -0.961 ms

Below is generated by plot.py at 2017-12-20 13:43:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 563.08 Mbit/s
95th percentile per-packet one-way delay: 1.709 ms
Loss rate: 0.10%

-- Flow 1:

Average throughput: 267.57 Mbit/s
95th percentile per-packet one-way delay: 1.653 ms
Loss rate: 0.07%

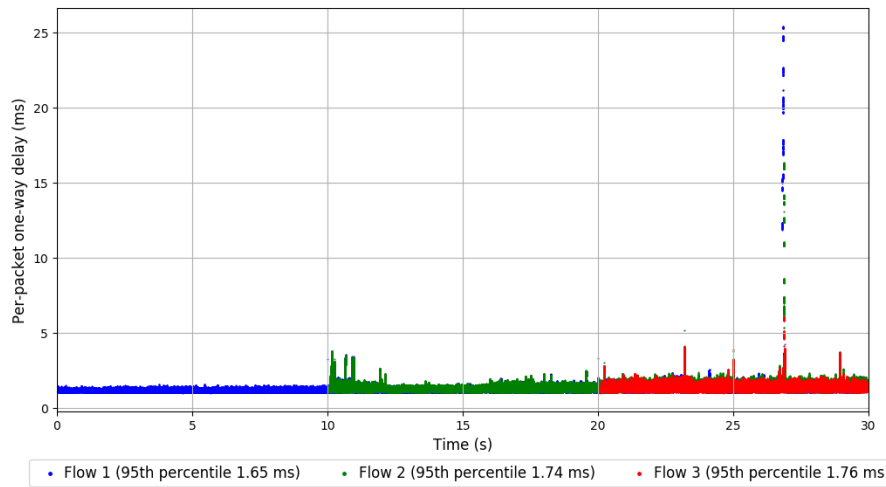
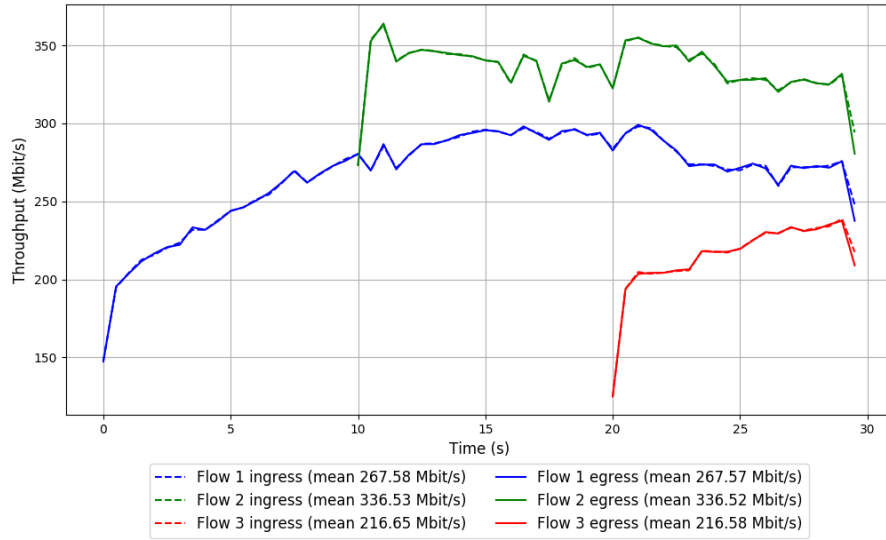
-- Flow 2:

Average throughput: 336.52 Mbit/s
95th percentile per-packet one-way delay: 1.737 ms
Loss rate: 0.10%

-- Flow 3:

Average throughput: 216.58 Mbit/s
95th percentile per-packet one-way delay: 1.761 ms
Loss rate: 0.23%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2017-12-20 06:44:29
End at: 2017-12-20 06:44:59
Local clock offset: 0.527 ms
Remote clock offset: -0.467 ms

Below is generated by plot.py at 2017-12-20 13:44:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 596.97 Mbit/s
95th percentile per-packet one-way delay: 1.868 ms
Loss rate: 0.08%

-- Flow 1:

Average throughput: 295.59 Mbit/s
95th percentile per-packet one-way delay: 1.805 ms
Loss rate: 0.05%

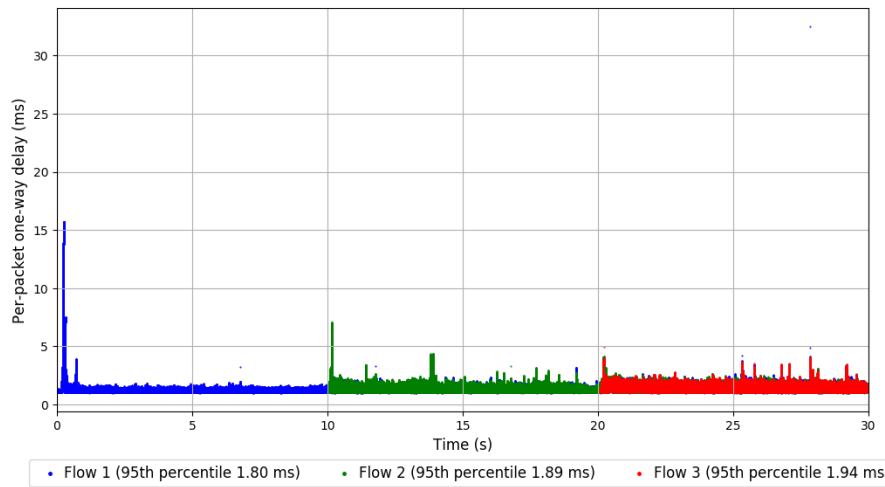
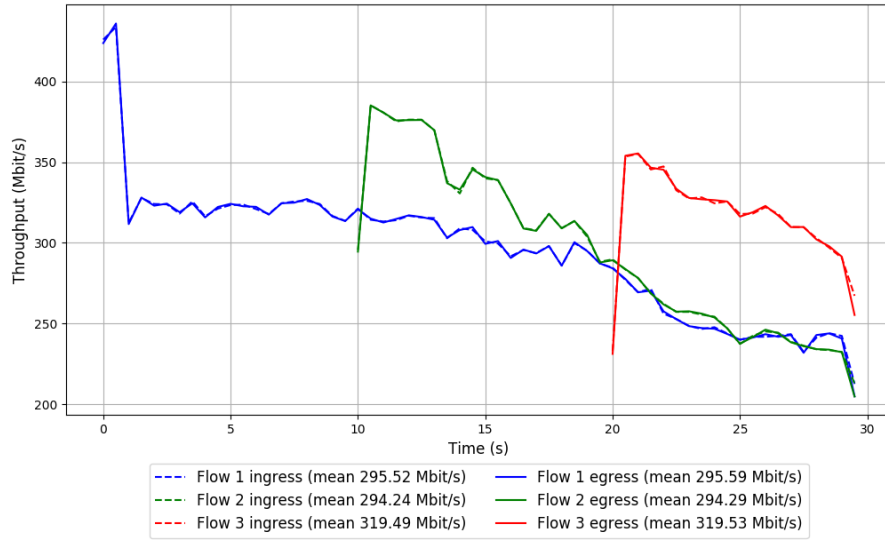
-- Flow 2:

Average throughput: 294.29 Mbit/s
95th percentile per-packet one-way delay: 1.891 ms
Loss rate: 0.08%

-- Flow 3:

Average throughput: 319.53 Mbit/s
95th percentile per-packet one-way delay: 1.937 ms
Loss rate: 0.19%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2017-12-20 07:06:43
End at: 2017-12-20 07:07:13
Local clock offset: 0.843 ms
Remote clock offset: -0.742 ms

Below is generated by plot.py at 2017-12-20 13:46:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 586.10 Mbit/s
95th percentile per-packet one-way delay: 8.210 ms
Loss rate: 0.10%

-- Flow 1:

Average throughput: 254.54 Mbit/s
95th percentile per-packet one-way delay: 2.854 ms
Loss rate: 0.05%

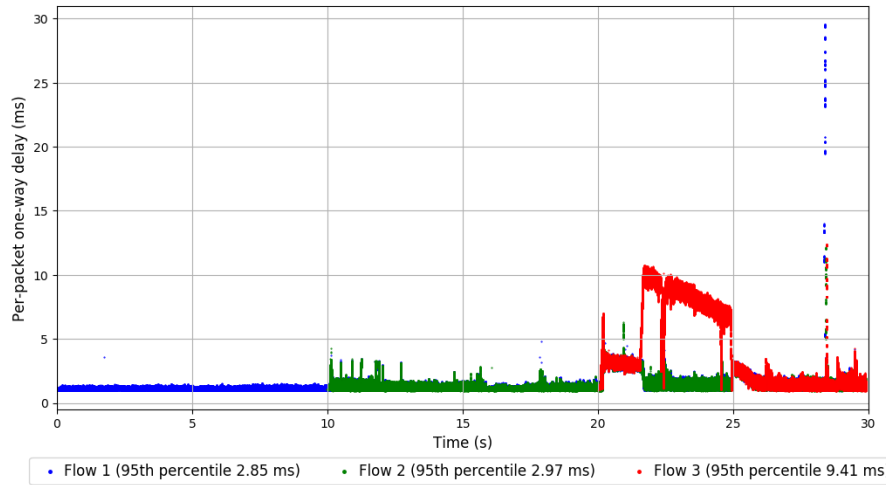
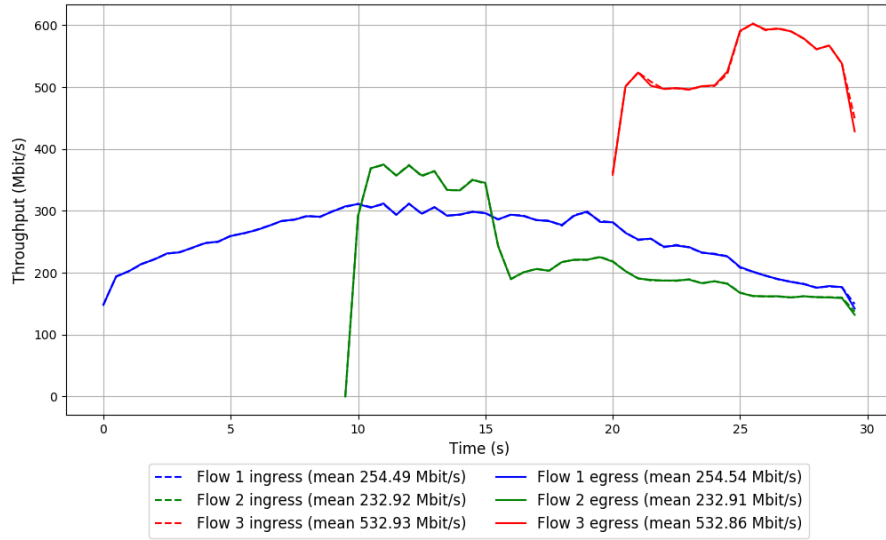
-- Flow 2:

Average throughput: 232.91 Mbit/s
95th percentile per-packet one-way delay: 2.966 ms
Loss rate: 0.07%

-- Flow 3:

Average throughput: 532.86 Mbit/s
95th percentile per-packet one-way delay: 9.411 ms
Loss rate: 0.21%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2017-12-20 07:29:05
End at: 2017-12-20 07:29:35
Local clock offset: 0.91 ms
Remote clock offset: -0.714 ms

Below is generated by plot.py at 2017-12-20 13:48:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 540.41 Mbit/s
95th percentile per-packet one-way delay: 1.636 ms
Loss rate: 0.10%

-- Flow 1:

Average throughput: 252.47 Mbit/s
95th percentile per-packet one-way delay: 1.557 ms
Loss rate: 0.06%

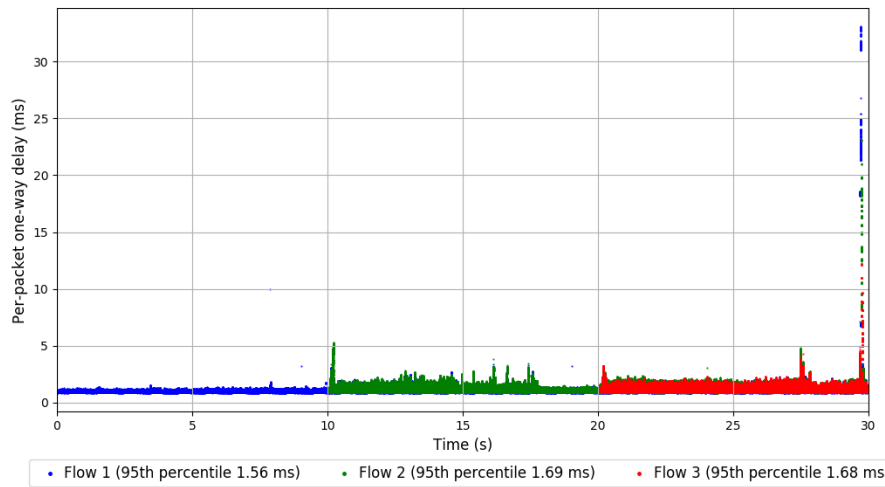
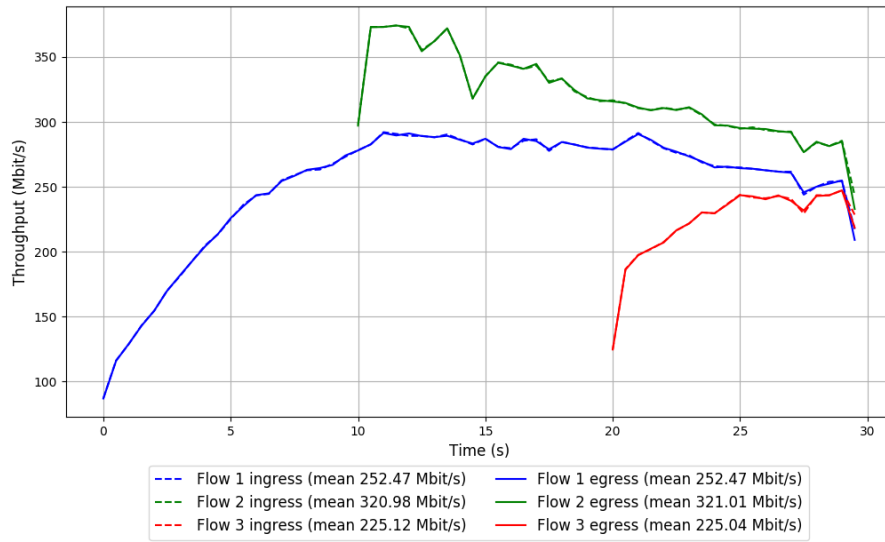
-- Flow 2:

Average throughput: 321.01 Mbit/s
95th percentile per-packet one-way delay: 1.685 ms
Loss rate: 0.09%

-- Flow 3:

Average throughput: 225.04 Mbit/s
95th percentile per-packet one-way delay: 1.680 ms
Loss rate: 0.24%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2017-12-20 07:51:22
End at: 2017-12-20 07:51:52
Local clock offset: 1.216 ms
Remote clock offset: -0.881 ms

Below is generated by plot.py at 2017-12-20 13:48:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 491.01 Mbit/s
95th percentile per-packet one-way delay: 1.683 ms
Loss rate: 0.11%

-- Flow 1:

Average throughput: 225.93 Mbit/s
95th percentile per-packet one-way delay: 1.619 ms
Loss rate: 0.07%

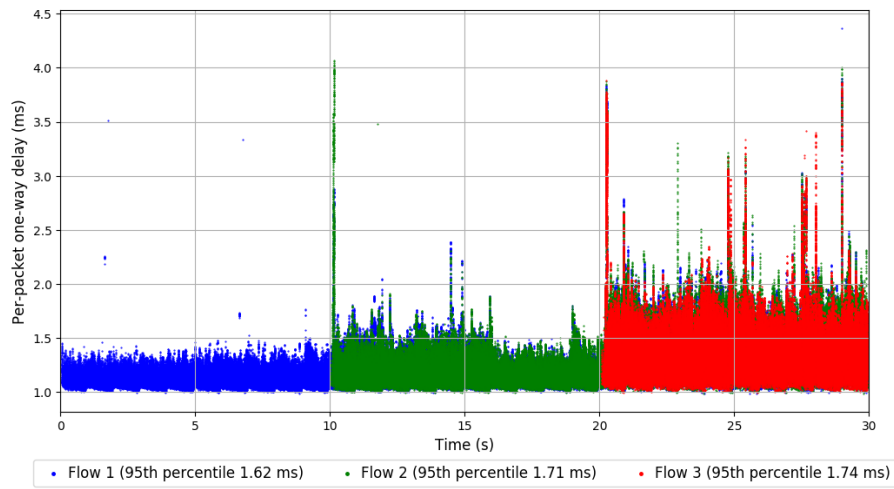
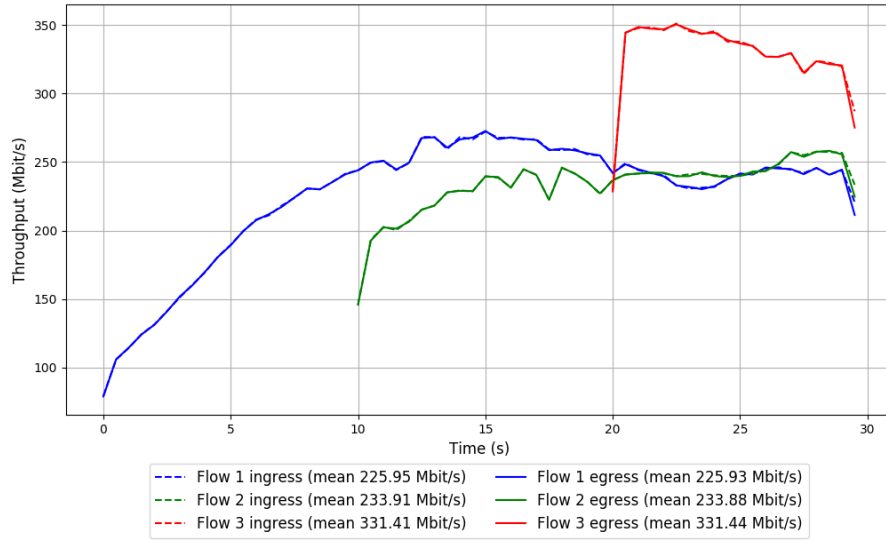
-- Flow 2:

Average throughput: 233.88 Mbit/s
95th percentile per-packet one-way delay: 1.711 ms
Loss rate: 0.11%

-- Flow 3:

Average throughput: 331.44 Mbit/s
95th percentile per-packet one-way delay: 1.738 ms
Loss rate: 0.19%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2017-12-20 08:13:37
End at: 2017-12-20 08:14:07
Local clock offset: 1.198 ms
Remote clock offset: -0.445 ms

Below is generated by plot.py at 2017-12-20 13:49:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 447.29 Mbit/s
95th percentile per-packet one-way delay: 1.696 ms
Loss rate: 0.11%

-- Flow 1:

Average throughput: 217.26 Mbit/s
95th percentile per-packet one-way delay: 1.578 ms
Loss rate: 0.08%

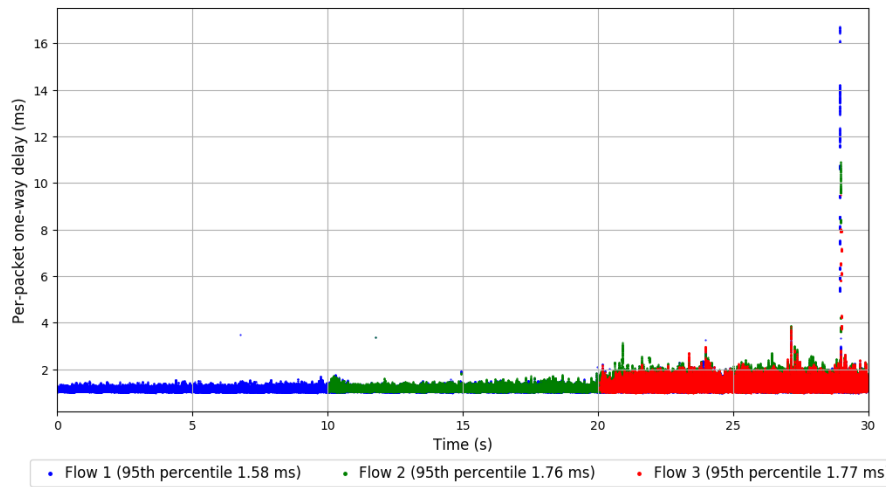
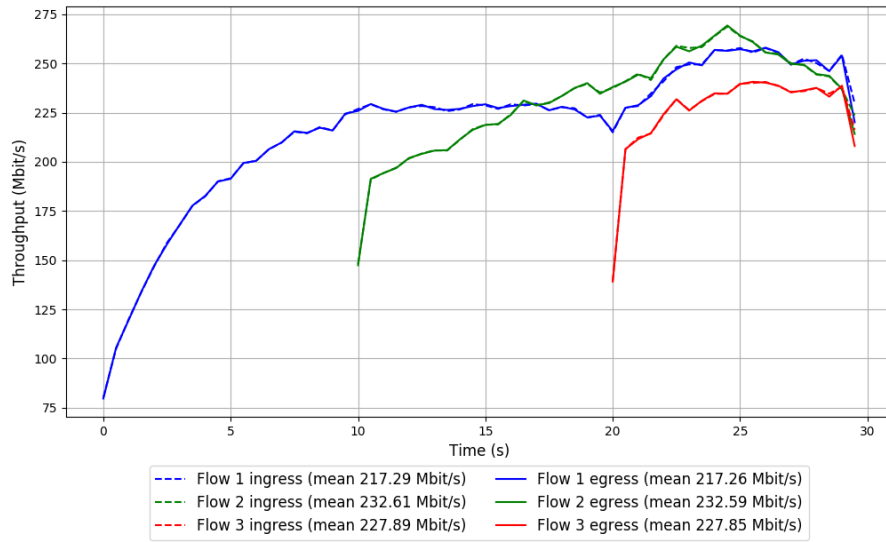
-- Flow 2:

Average throughput: 232.59 Mbit/s
95th percentile per-packet one-way delay: 1.764 ms
Loss rate: 0.11%

-- Flow 3:

Average throughput: 227.85 Mbit/s
95th percentile per-packet one-way delay: 1.773 ms
Loss rate: 0.20%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2017-12-20 08:35:56
End at: 2017-12-20 08:36:26
Local clock offset: 0.992 ms
Remote clock offset: -0.841 ms

Below is generated by plot.py at 2017-12-20 13:49:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 437.12 Mbit/s
95th percentile per-packet one-way delay: 1.527 ms
Loss rate: 0.10%

-- Flow 1:

Average throughput: 202.30 Mbit/s
95th percentile per-packet one-way delay: 1.432 ms
Loss rate: 0.07%

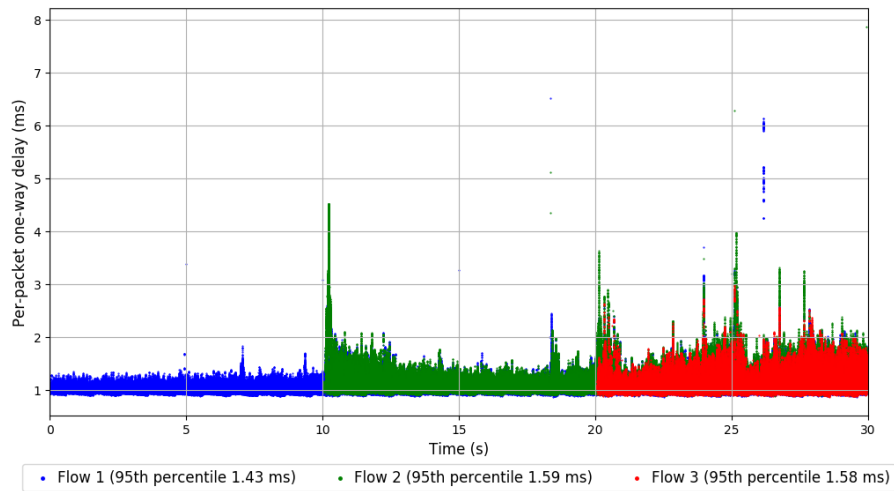
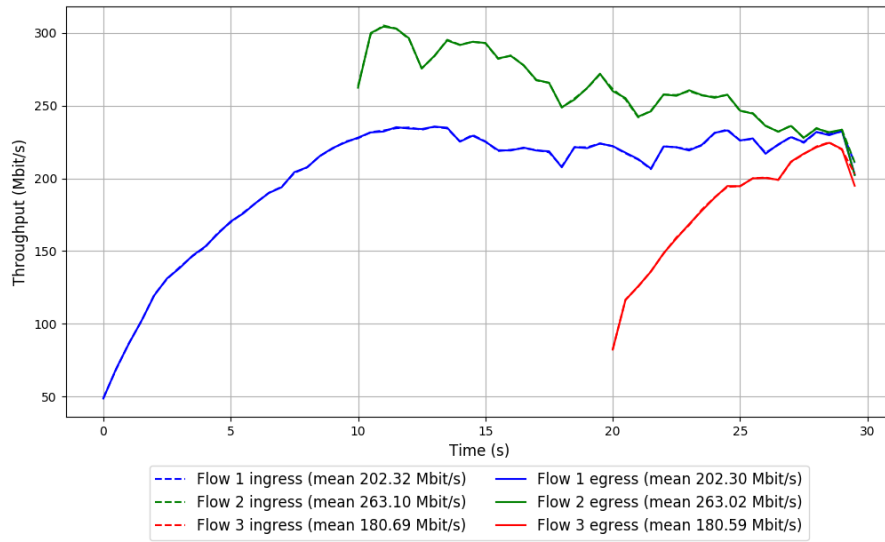
-- Flow 2:

Average throughput: 263.02 Mbit/s
95th percentile per-packet one-way delay: 1.594 ms
Loss rate: 0.09%

-- Flow 3:

Average throughput: 180.59 Mbit/s
95th percentile per-packet one-way delay: 1.580 ms
Loss rate: 0.24%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2017-12-20 05:06:26
End at: 2017-12-20 05:06:56
Local clock offset: 0.158 ms
Remote clock offset: -2.575 ms

Below is generated by plot.py at 2017-12-20 13:50:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 504.06 Mbit/s
95th percentile per-packet one-way delay: 7.360 ms
Loss rate: 0.09%

-- Flow 1:

Average throughput: 246.19 Mbit/s
95th percentile per-packet one-way delay: 5.733 ms
Loss rate: 0.05%

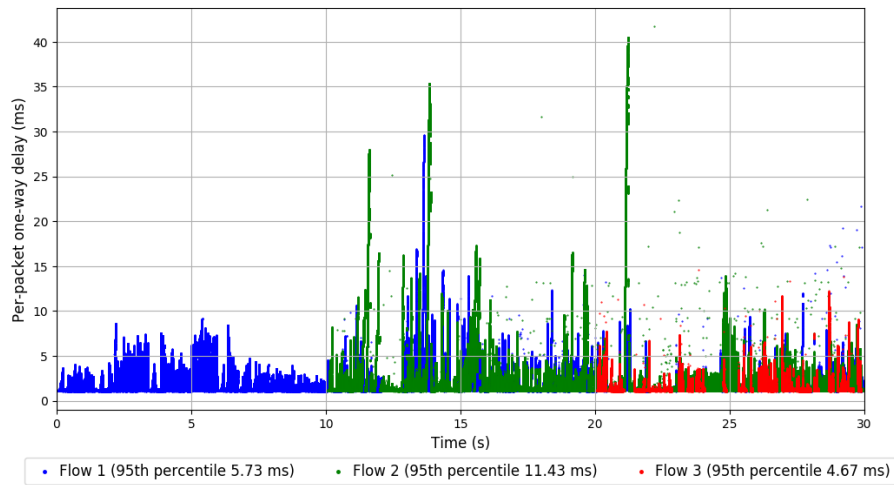
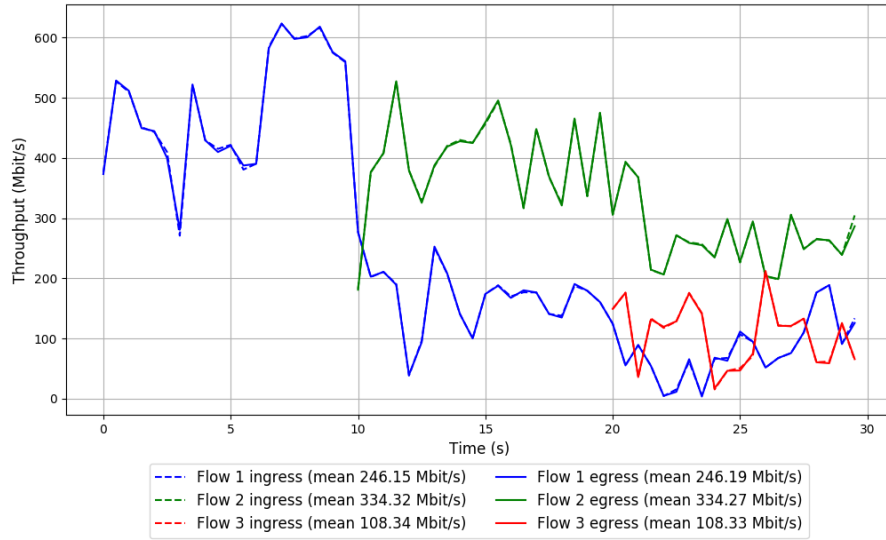
-- Flow 2:

Average throughput: 334.27 Mbit/s
95th percentile per-packet one-way delay: 11.428 ms
Loss rate: 0.14%

-- Flow 3:

Average throughput: 108.33 Mbit/s
95th percentile per-packet one-way delay: 4.670 ms
Loss rate: 0.00%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2017-12-20 05:28:42
End at: 2017-12-20 05:29:12
Local clock offset: 0.216 ms
Remote clock offset: -1.849 ms

Below is generated by plot.py at 2017-12-20 13:50:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 439.61 Mbit/s
95th percentile per-packet one-way delay: 6.677 ms
Loss rate: 0.06%

-- Flow 1:

Average throughput: 247.32 Mbit/s
95th percentile per-packet one-way delay: 7.288 ms
Loss rate: 0.03%

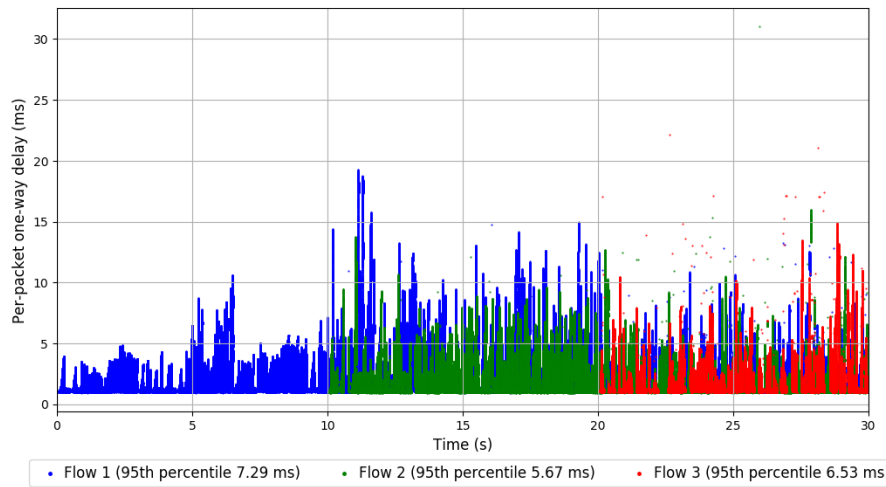
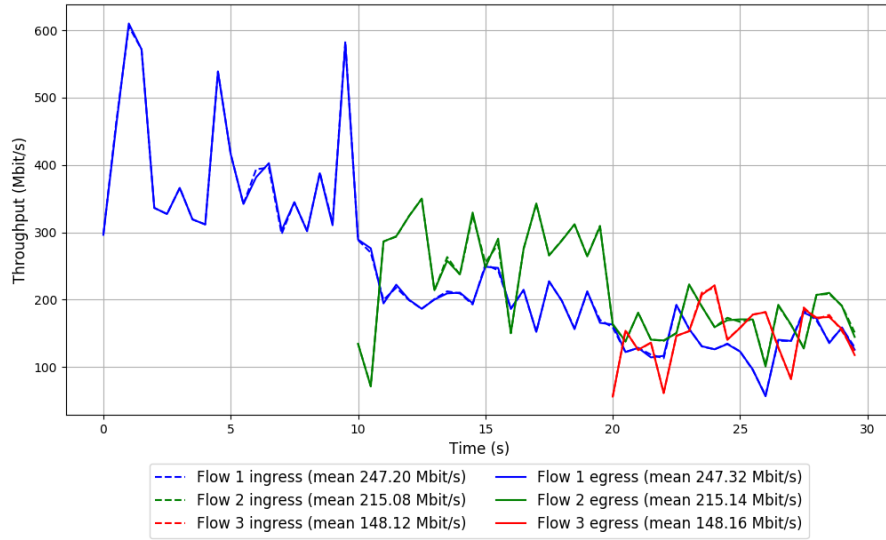
-- Flow 2:

Average throughput: 215.14 Mbit/s
95th percentile per-packet one-way delay: 5.668 ms
Loss rate: 0.08%

-- Flow 3:

Average throughput: 148.16 Mbit/s
95th percentile per-packet one-way delay: 6.528 ms
Loss rate: 0.18%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2017-12-20 05:50:54
End at: 2017-12-20 05:51:24
Local clock offset: 0.209 ms
Remote clock offset: -1.296 ms

Below is generated by plot.py at 2017-12-20 13:50:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 411.36 Mbit/s
95th percentile per-packet one-way delay: 91.944 ms
Loss rate: 1.17%

-- Flow 1:

Average throughput: 263.53 Mbit/s
95th percentile per-packet one-way delay: 96.254 ms
Loss rate: 1.72%

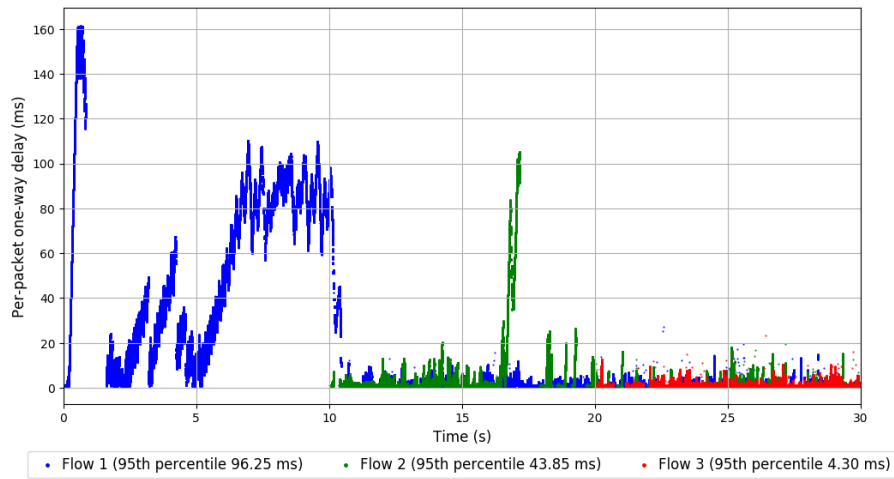
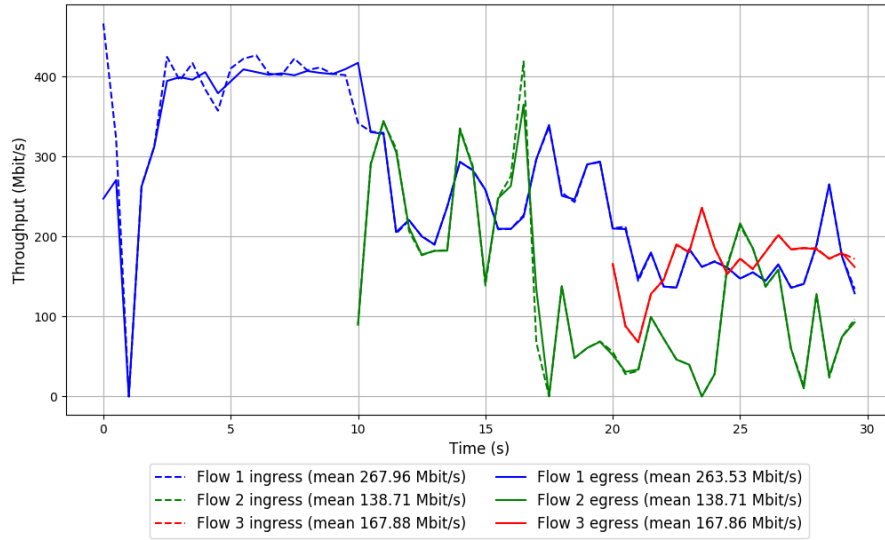
-- Flow 2:

Average throughput: 138.71 Mbit/s
95th percentile per-packet one-way delay: 43.854 ms
Loss rate: 0.07%

-- Flow 3:

Average throughput: 167.86 Mbit/s
95th percentile per-packet one-way delay: 4.303 ms
Loss rate: 0.32%

Run 3: Report of Verus — Data Link

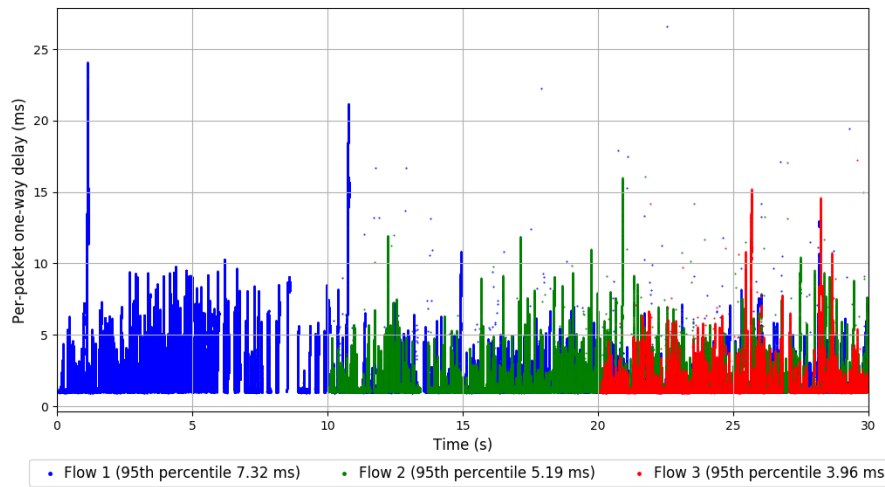
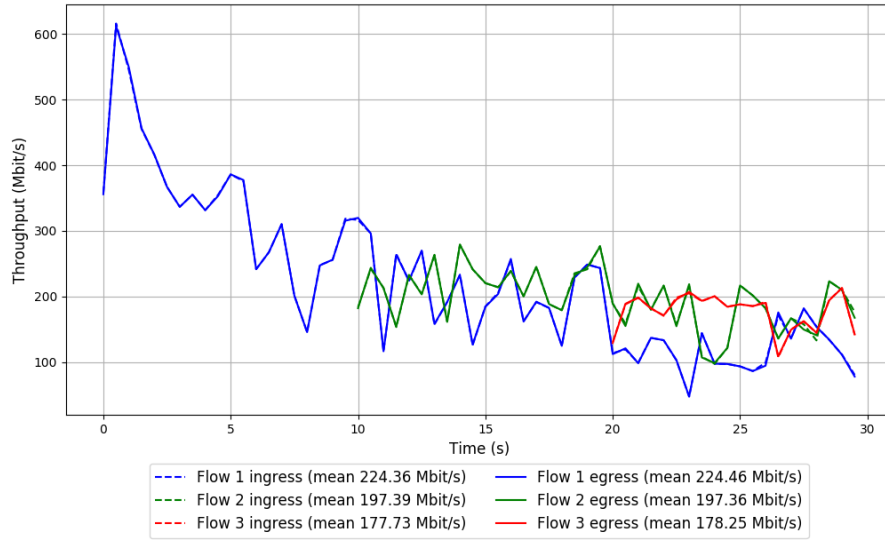


Run 4: Statistics of Verus

Start at: 2017-12-20 06:13:15
End at: 2017-12-20 06:13:45
Local clock offset: 0.309 ms
Remote clock offset: -1.001 ms

```
# Below is generated by plot.py at 2017-12-20 13:52:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 414.68 Mbit/s
95th percentile per-packet one-way delay: 6.645 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 224.46 Mbit/s
95th percentile per-packet one-way delay: 7.323 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 197.36 Mbit/s
95th percentile per-packet one-way delay: 5.192 ms
Loss rate: 0.11%
-- Flow 3:
Average throughput: 178.25 Mbit/s
95th percentile per-packet one-way delay: 3.960 ms
Loss rate: 0.00%
```

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2017-12-20 06:35:32
End at: 2017-12-20 06:36:02
Local clock offset: 0.428 ms
Remote clock offset: -0.555 ms

Below is generated by plot.py at 2017-12-20 13:55:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 477.48 Mbit/s
95th percentile per-packet one-way delay: 11.156 ms
Loss rate: 0.06%

-- Flow 1:

Average throughput: 288.80 Mbit/s
95th percentile per-packet one-way delay: 17.598 ms
Loss rate: 0.06%

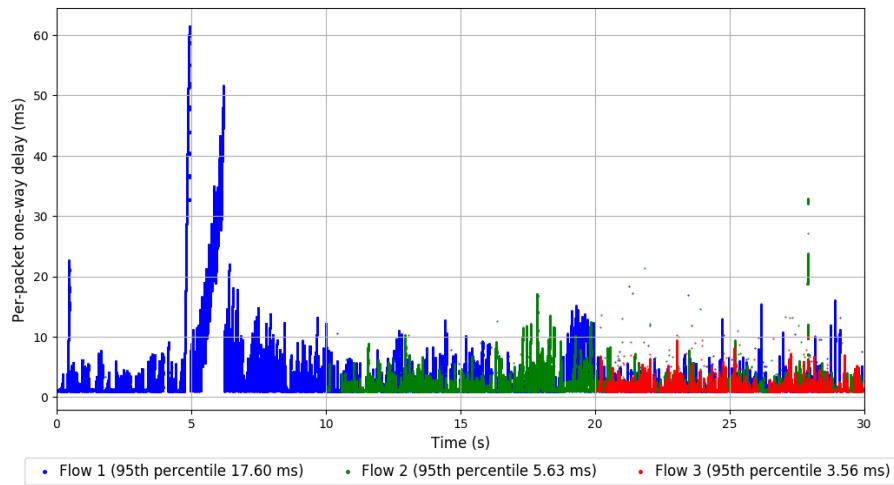
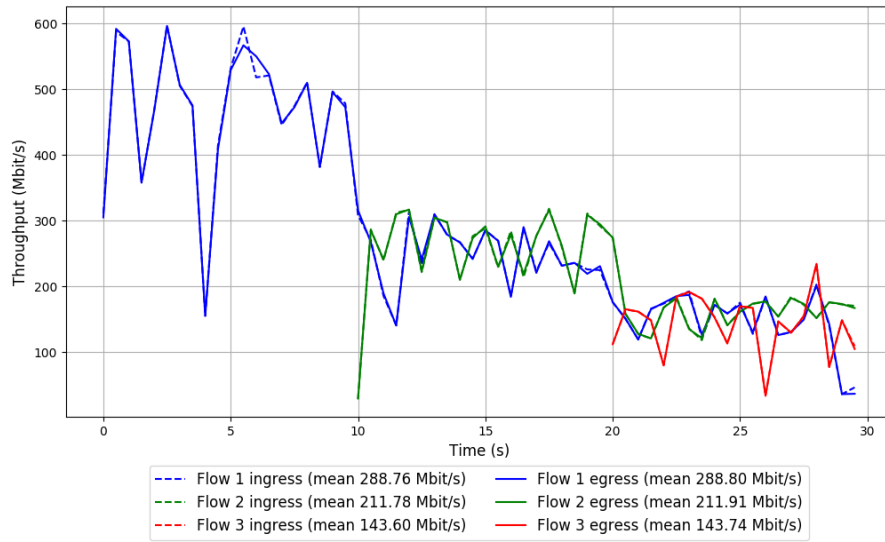
-- Flow 2:

Average throughput: 211.91 Mbit/s
95th percentile per-packet one-way delay: 5.627 ms
Loss rate: 0.04%

-- Flow 3:

Average throughput: 143.74 Mbit/s
95th percentile per-packet one-way delay: 3.564 ms
Loss rate: 0.15%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2017-12-20 06:57:52
End at: 2017-12-20 06:58:22
Local clock offset: 0.622 ms
Remote clock offset: -0.591 ms

Below is generated by plot.py at 2017-12-20 13:55:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 388.35 Mbit/s
95th percentile per-packet one-way delay: 6.609 ms
Loss rate: 0.11%

-- Flow 1:

Average throughput: 260.69 Mbit/s
95th percentile per-packet one-way delay: 6.599 ms
Loss rate: 0.00%

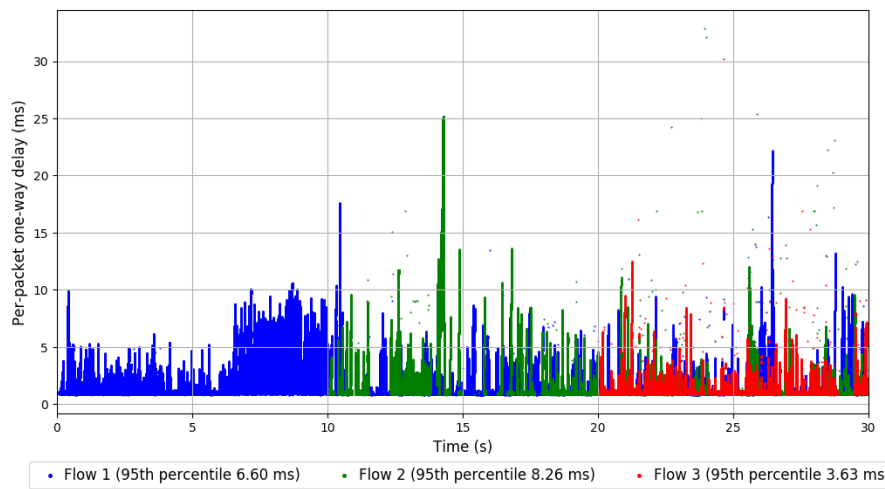
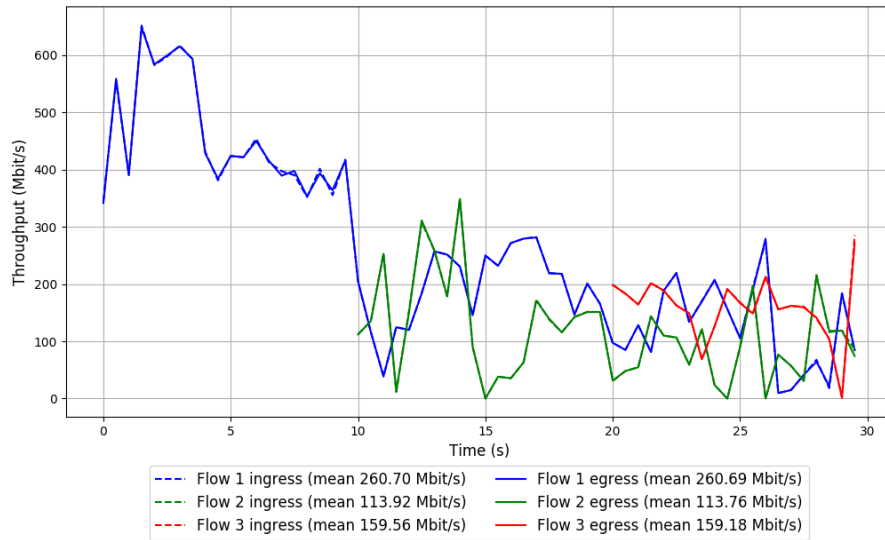
-- Flow 2:

Average throughput: 113.76 Mbit/s
95th percentile per-packet one-way delay: 8.264 ms
Loss rate: 0.26%

-- Flow 3:

Average throughput: 159.18 Mbit/s
95th percentile per-packet one-way delay: 3.633 ms
Loss rate: 0.44%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2017-12-20 07:20:05
End at: 2017-12-20 07:20:35
Local clock offset: 1.002 ms
Remote clock offset: -0.627 ms

Below is generated by plot.py at 2017-12-20 13:56:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 477.76 Mbit/s
95th percentile per-packet one-way delay: 9.176 ms
Loss rate: 0.08%

-- Flow 1:

Average throughput: 278.61 Mbit/s
95th percentile per-packet one-way delay: 10.671 ms
Loss rate: 0.04%

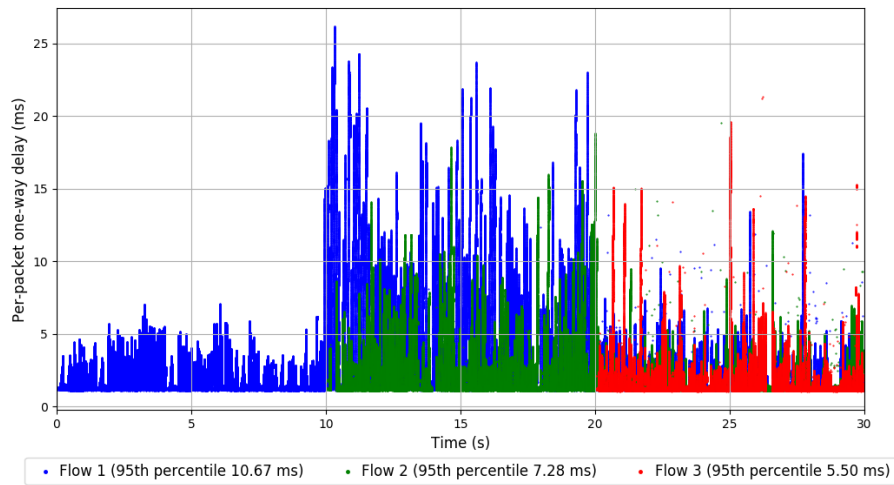
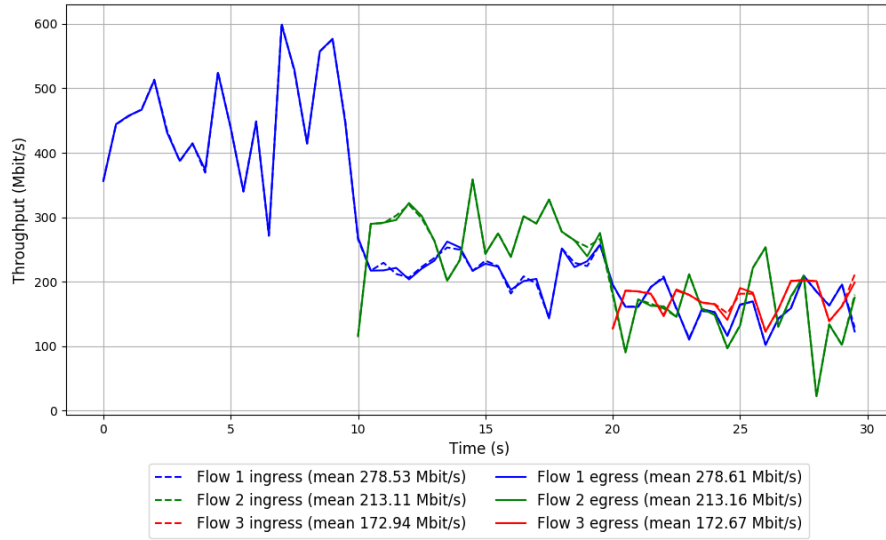
-- Flow 2:

Average throughput: 213.16 Mbit/s
95th percentile per-packet one-way delay: 7.282 ms
Loss rate: 0.05%

-- Flow 3:

Average throughput: 172.67 Mbit/s
95th percentile per-packet one-way delay: 5.499 ms
Loss rate: 0.35%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2017-12-20 07:42:18
End at: 2017-12-20 07:42:48
Local clock offset: 1.156 ms
Remote clock offset: -0.994 ms

Below is generated by plot.py at 2017-12-20 13:56:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 471.79 Mbit/s
95th percentile per-packet one-way delay: 7.433 ms
Loss rate: 0.13%

-- Flow 1:

Average throughput: 298.96 Mbit/s
95th percentile per-packet one-way delay: 7.085 ms
Loss rate: 0.18%

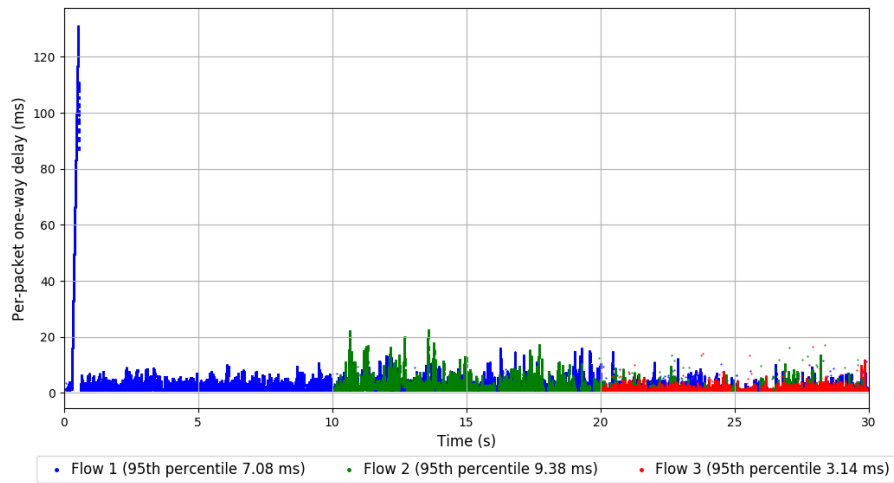
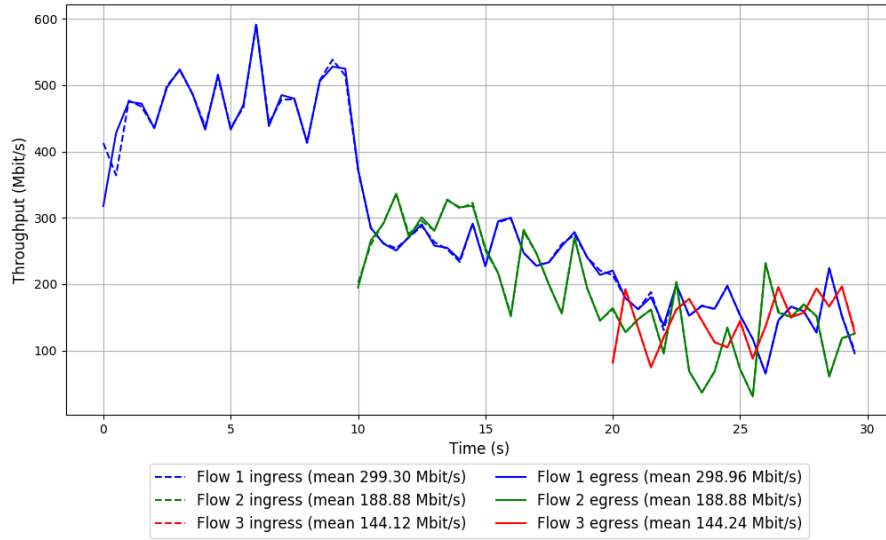
-- Flow 2:

Average throughput: 188.88 Mbit/s
95th percentile per-packet one-way delay: 9.376 ms
Loss rate: 0.00%

-- Flow 3:

Average throughput: 144.24 Mbit/s
95th percentile per-packet one-way delay: 3.136 ms
Loss rate: 0.16%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2017-12-20 08:04:37

End at: 2017-12-20 08:05:07

Local clock offset: 1.271 ms

Remote clock offset: -0.5 ms

Below is generated by plot.py at 2017-12-20 13:56:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 441.62 Mbit/s

95th percentile per-packet one-way delay: 7.708 ms

Loss rate: 0.14%

-- Flow 1:

Average throughput: 273.03 Mbit/s

95th percentile per-packet one-way delay: 6.947 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 184.02 Mbit/s

95th percentile per-packet one-way delay: 9.027 ms

Loss rate: 0.05%

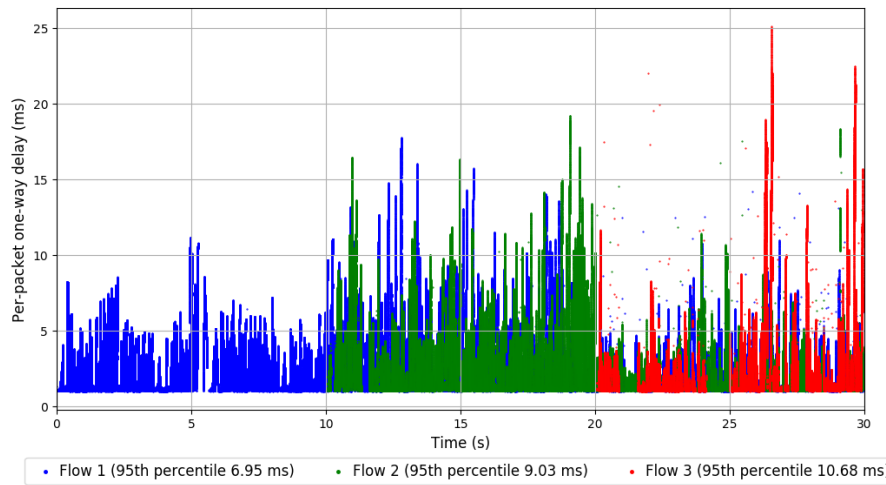
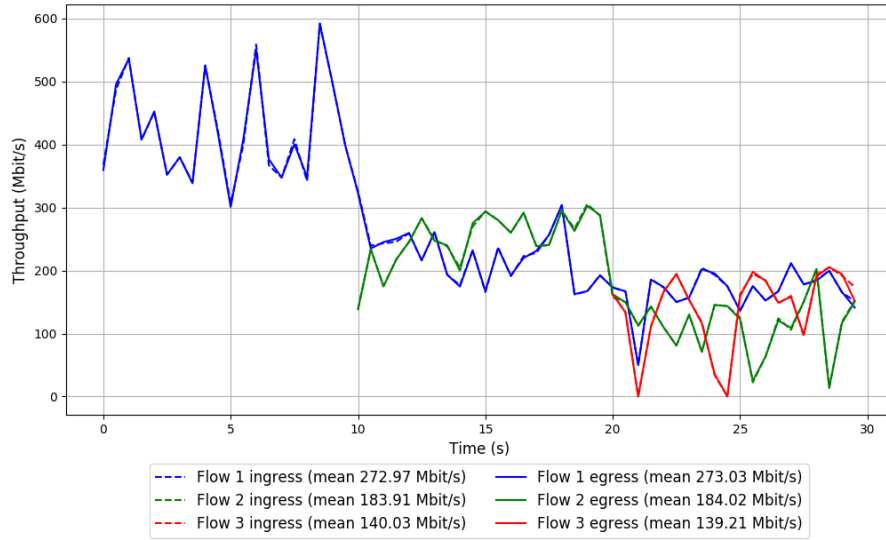
-- Flow 3:

Average throughput: 139.21 Mbit/s

95th percentile per-packet one-way delay: 10.683 ms

Loss rate: 0.79%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2017-12-20 08:26:52
End at: 2017-12-20 08:27:22
Local clock offset: 1.167 ms
Remote clock offset: -0.676 ms

Below is generated by plot.py at 2017-12-20 13:56:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 459.93 Mbit/s
95th percentile per-packet one-way delay: 8.946 ms
Loss rate: 0.06%

-- Flow 1:

Average throughput: 273.36 Mbit/s
95th percentile per-packet one-way delay: 11.438 ms
Loss rate: 0.04%

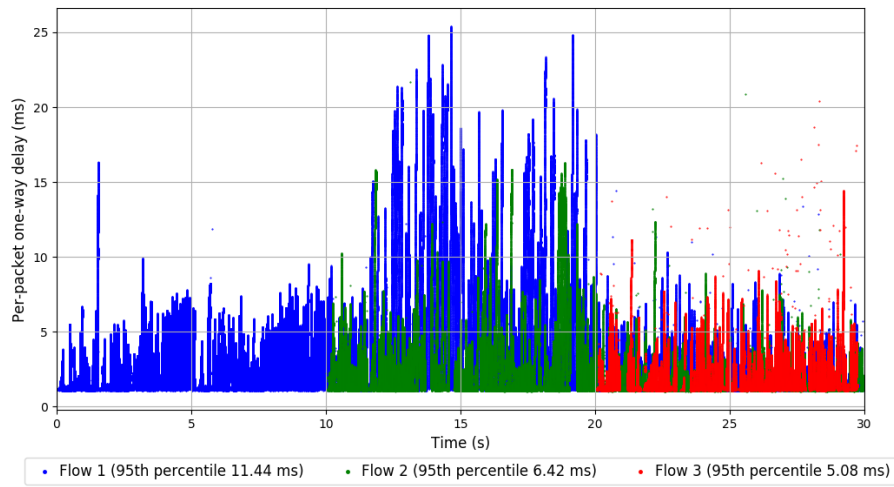
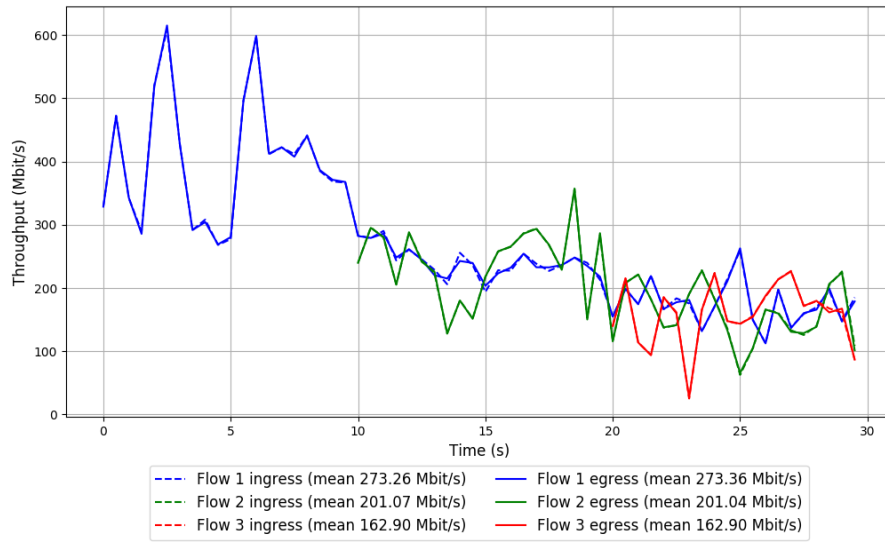
-- Flow 2:

Average throughput: 201.04 Mbit/s
95th percentile per-packet one-way delay: 6.425 ms
Loss rate: 0.11%

-- Flow 3:

Average throughput: 162.90 Mbit/s
95th percentile per-packet one-way delay: 5.081 ms
Loss rate: 0.00%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2017-12-20 04:55:53

End at: 2017-12-20 04:56:23

Local clock offset: 0.056 ms

Remote clock offset: -2.86 ms

Below is generated by plot.py at 2017-12-20 13:56:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 151.33 Mbit/s

95th percentile per-packet one-way delay: 1.206 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 78.57 Mbit/s

95th percentile per-packet one-way delay: 1.202 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 78.04 Mbit/s

95th percentile per-packet one-way delay: 1.207 ms

Loss rate: 0.11%

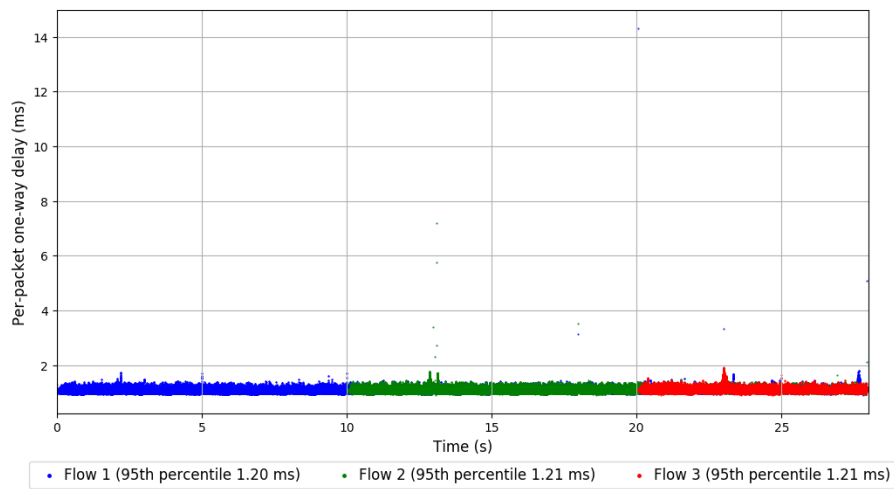
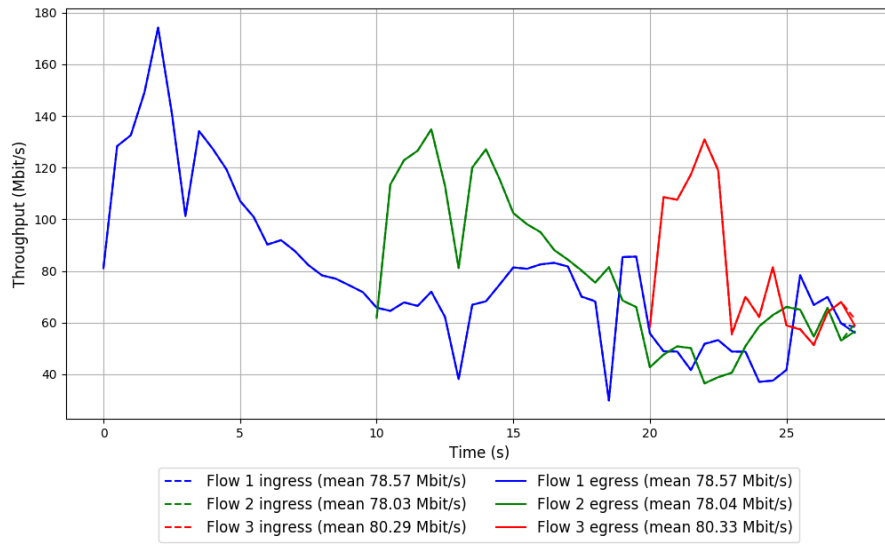
-- Flow 3:

Average throughput: 80.33 Mbit/s

95th percentile per-packet one-way delay: 1.212 ms

Loss rate: 0.21%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2017-12-20 05:18:08
End at: 2017-12-20 05:18:38
Local clock offset: 0.16 ms
Remote clock offset: -2.175 ms

Below is generated by plot.py at 2017-12-20 13:56:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 154.48 Mbit/s
95th percentile per-packet one-way delay: 1.175 ms
Loss rate: 0.06%

-- Flow 1:

Average throughput: 78.45 Mbit/s
95th percentile per-packet one-way delay: 1.171 ms
Loss rate: 0.05%

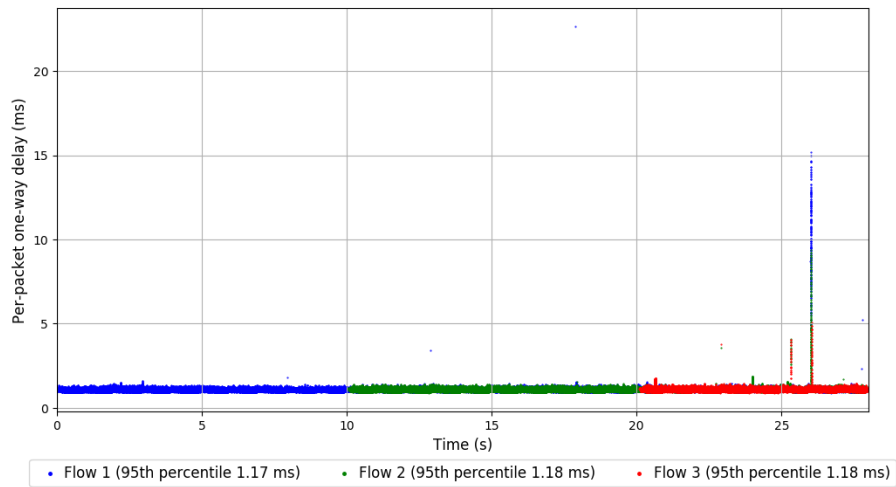
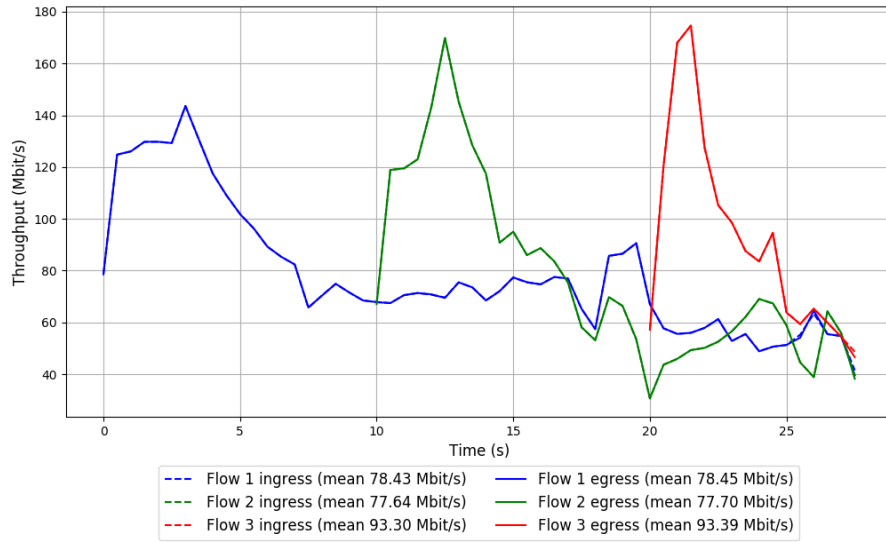
-- Flow 2:

Average throughput: 77.70 Mbit/s
95th percentile per-packet one-way delay: 1.177 ms
Loss rate: 0.04%

-- Flow 3:

Average throughput: 93.39 Mbit/s
95th percentile per-packet one-way delay: 1.183 ms
Loss rate: 0.15%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2017-12-20 05:40:17
End at: 2017-12-20 05:40:47
Local clock offset: 0.182 ms
Remote clock offset: -1.642 ms

Below is generated by plot.py at 2017-12-20 13:58:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 155.67 Mbit/s
95th percentile per-packet one-way delay: 1.156 ms
Loss rate: 0.09%

-- Flow 1:

Average throughput: 82.78 Mbit/s
95th percentile per-packet one-way delay: 1.160 ms
Loss rate: 0.05%

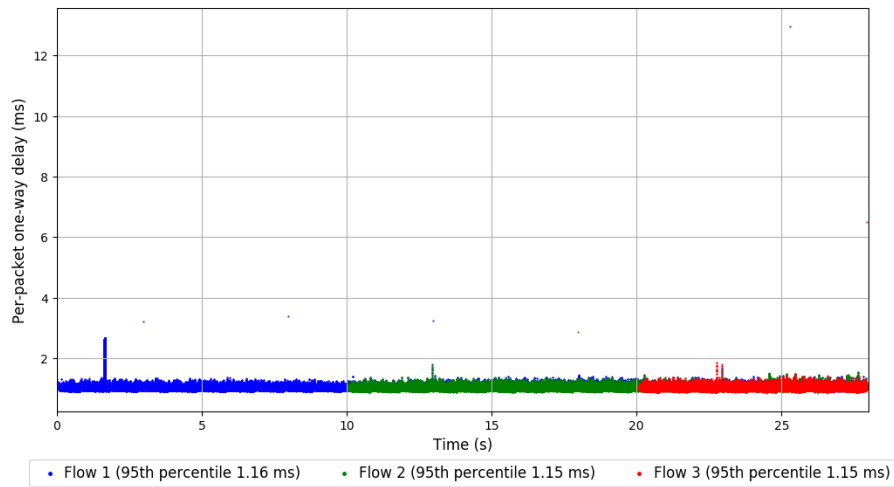
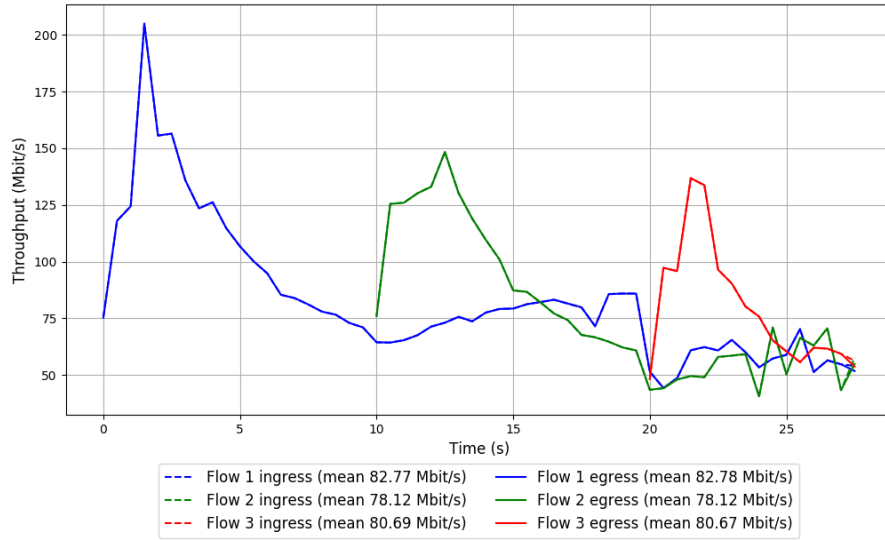
-- Flow 2:

Average throughput: 78.12 Mbit/s
95th percentile per-packet one-way delay: 1.150 ms
Loss rate: 0.10%

-- Flow 3:

Average throughput: 80.67 Mbit/s
95th percentile per-packet one-way delay: 1.154 ms
Loss rate: 0.21%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2017-12-20 06:02:39
End at: 2017-12-20 06:03:09
Local clock offset: 0.292 ms
Remote clock offset: -1.176 ms

Below is generated by plot.py at 2017-12-20 13:58:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 157.33 Mbit/s
95th percentile per-packet one-way delay: 1.163 ms
Loss rate: 0.07%

-- Flow 1:

Average throughput: 81.46 Mbit/s
95th percentile per-packet one-way delay: 1.176 ms
Loss rate: 0.03%

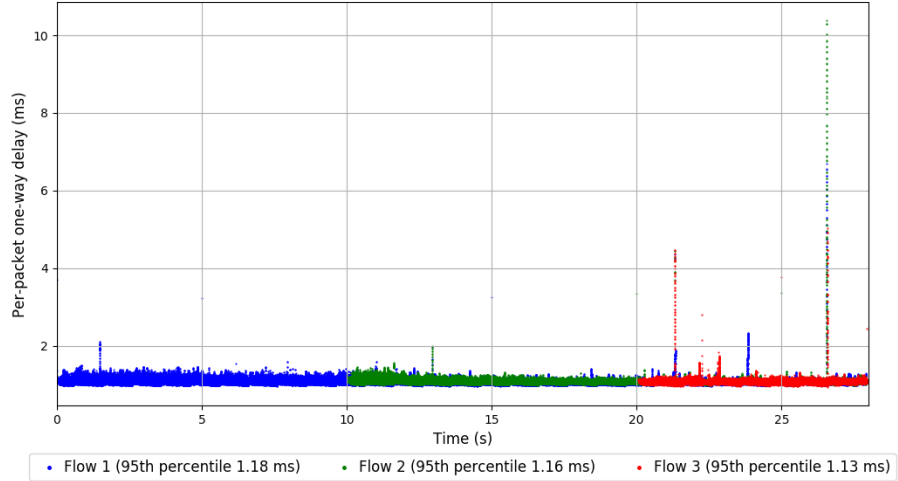
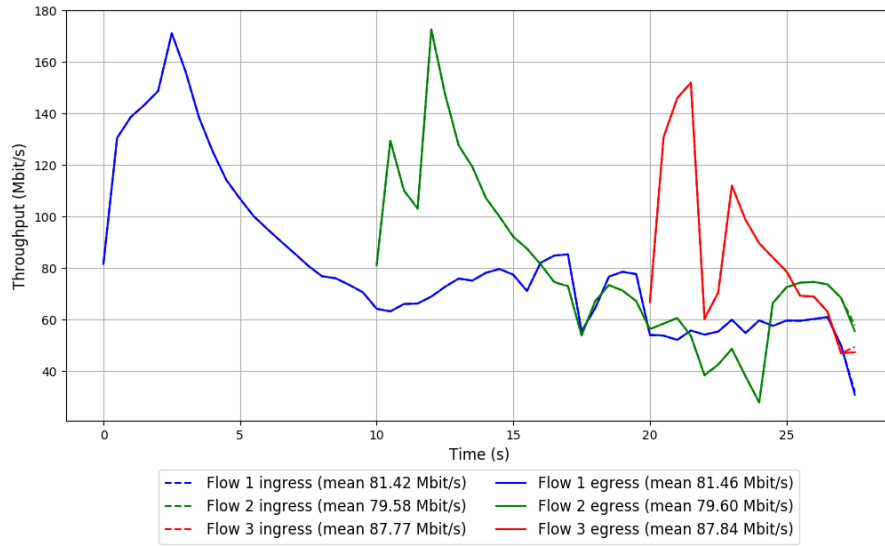
-- Flow 2:

Average throughput: 79.60 Mbit/s
95th percentile per-packet one-way delay: 1.158 ms
Loss rate: 0.08%

-- Flow 3:

Average throughput: 87.84 Mbit/s
95th percentile per-packet one-way delay: 1.132 ms
Loss rate: 0.16%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2017-12-20 06:25:01
End at: 2017-12-20 06:25:31
Local clock offset: 0.337 ms
Remote clock offset: -0.911 ms

Below is generated by plot.py at 2017-12-20 13:58:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 120.44 Mbit/s
95th percentile per-packet one-way delay: 1.206 ms
Loss rate: 0.09%

-- Flow 1:

Average throughput: 90.15 Mbit/s
95th percentile per-packet one-way delay: 1.204 ms
Loss rate: 0.07%

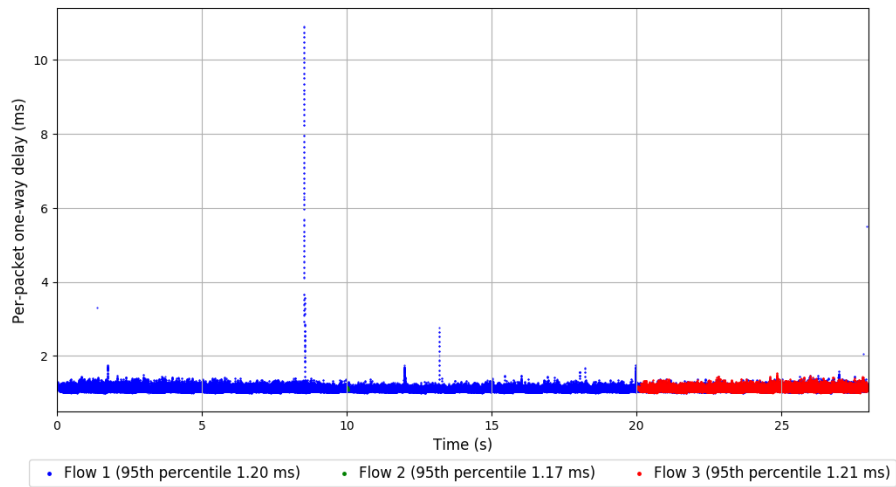
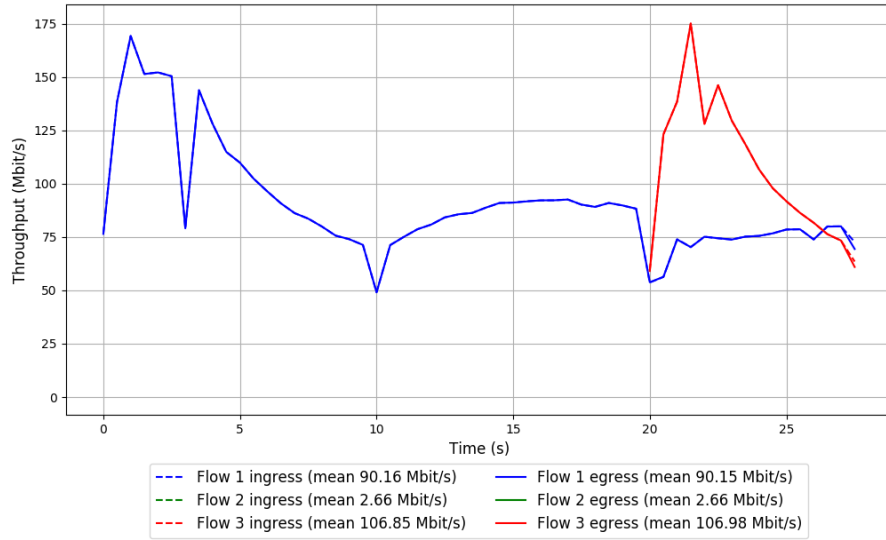
-- Flow 2:

Average throughput: 2.66 Mbit/s
95th percentile per-packet one-way delay: 1.167 ms
Loss rate: 0.00%

-- Flow 3:

Average throughput: 106.98 Mbit/s
95th percentile per-packet one-way delay: 1.210 ms
Loss rate: 0.16%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2017-12-20 06:47:16
End at: 2017-12-20 06:47:46
Local clock offset: 0.45 ms
Remote clock offset: -0.539 ms

Below is generated by plot.py at 2017-12-20 13:59:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 149.93 Mbit/s
95th percentile per-packet one-way delay: 1.147 ms
Loss rate: 0.08%

-- Flow 1:

Average throughput: 79.36 Mbit/s
95th percentile per-packet one-way delay: 1.154 ms
Loss rate: 0.05%

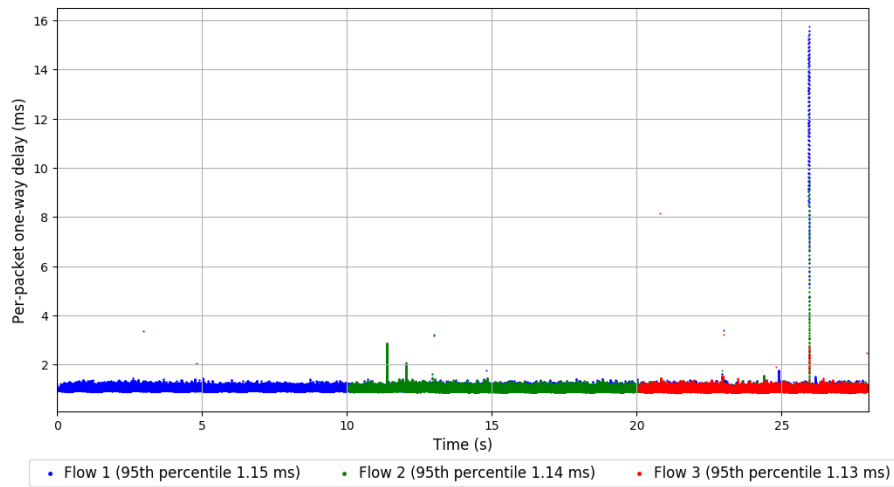
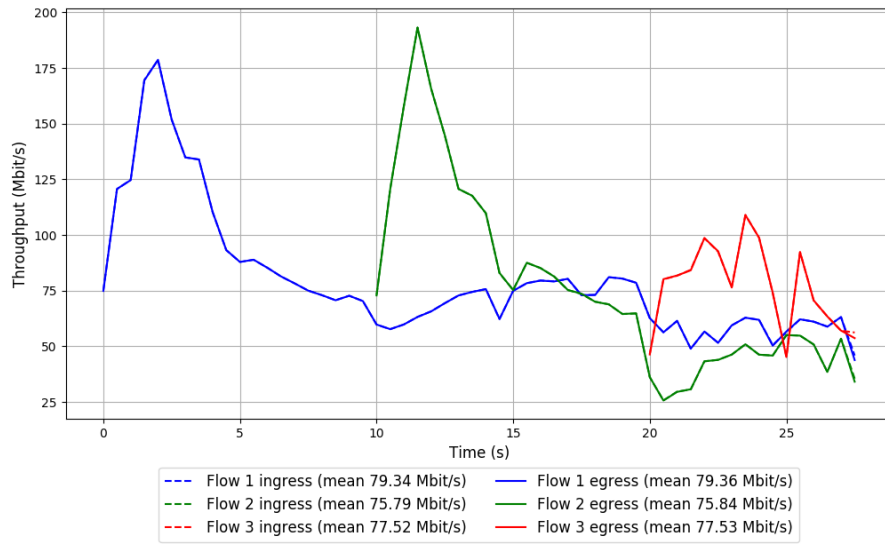
-- Flow 2:

Average throughput: 75.84 Mbit/s
95th percentile per-packet one-way delay: 1.141 ms
Loss rate: 0.05%

-- Flow 3:

Average throughput: 77.53 Mbit/s
95th percentile per-packet one-way delay: 1.130 ms
Loss rate: 0.22%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2017-12-20 07:09:29
End at: 2017-12-20 07:09:59
Local clock offset: 0.807 ms
Remote clock offset: -0.808 ms

Below is generated by plot.py at 2017-12-20 13:59:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 149.48 Mbit/s
95th percentile per-packet one-way delay: 1.141 ms
Loss rate: 0.08%

-- Flow 1:

Average throughput: 79.00 Mbit/s
95th percentile per-packet one-way delay: 1.135 ms
Loss rate: 0.05%

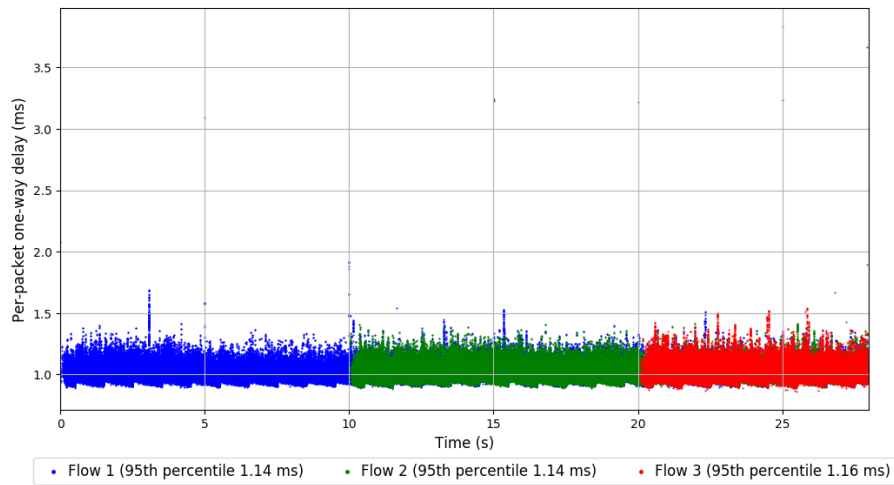
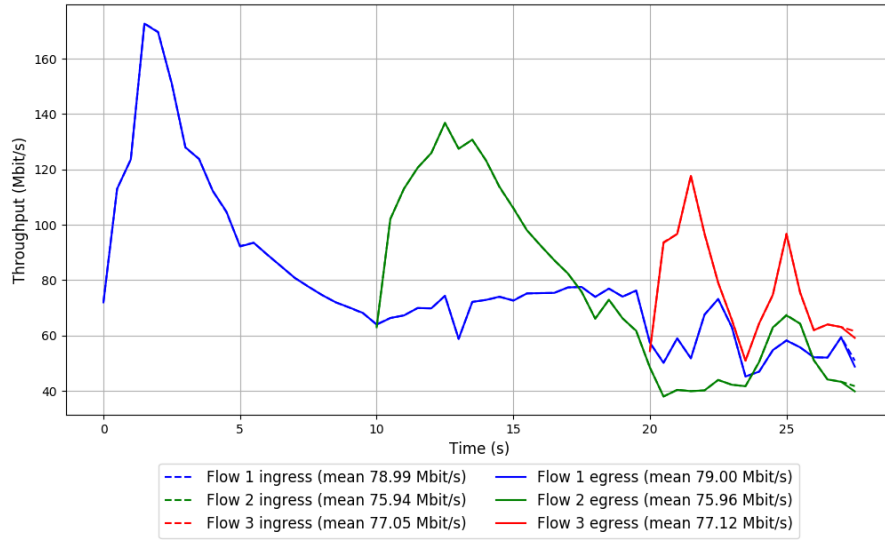
-- Flow 2:

Average throughput: 75.96 Mbit/s
95th percentile per-packet one-way delay: 1.140 ms
Loss rate: 0.07%

-- Flow 3:

Average throughput: 77.12 Mbit/s
95th percentile per-packet one-way delay: 1.158 ms
Loss rate: 0.21%

Run 7: Report of Copa — Data Link

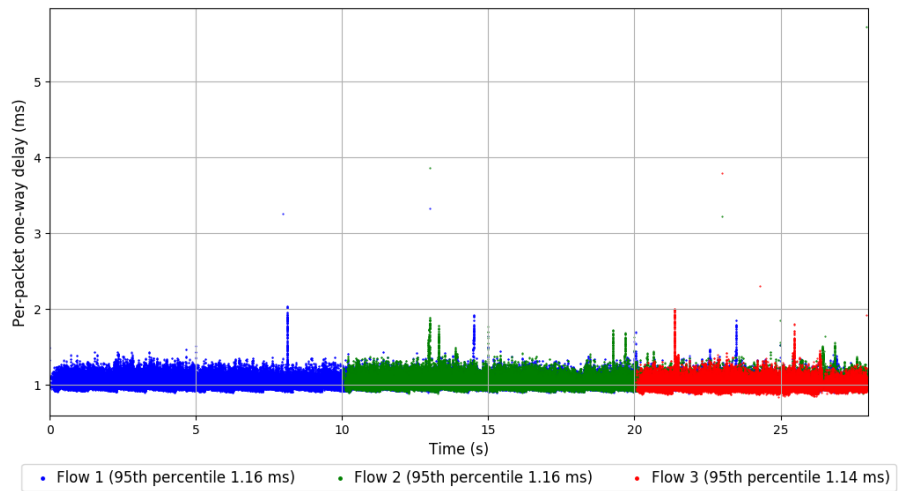
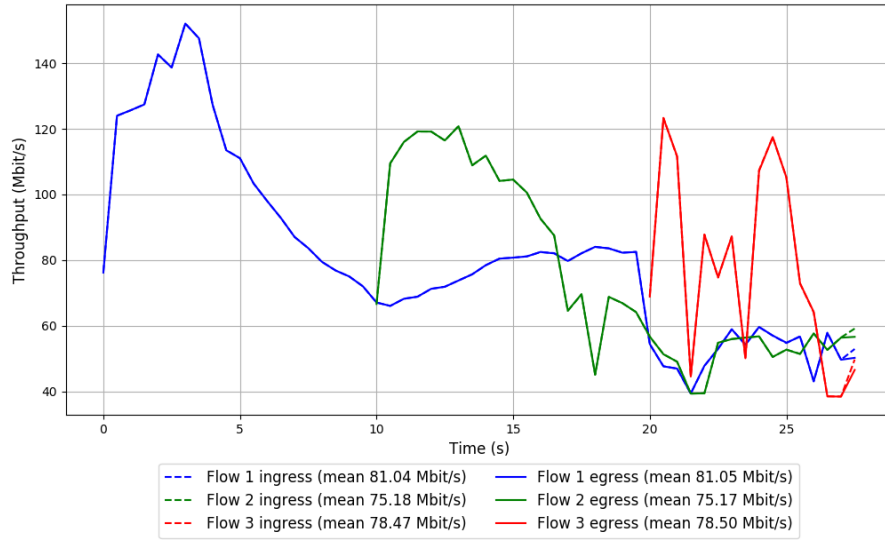


Run 8: Statistics of Copa

Start at: 2017-12-20 07:31:49
End at: 2017-12-20 07:32:19
Local clock offset: 1.014 ms
Remote clock offset: -0.765 ms

```
# Below is generated by plot.py at 2017-12-20 14:00:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 151.44 Mbit/s
95th percentile per-packet one-way delay: 1.156 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 81.05 Mbit/s
95th percentile per-packet one-way delay: 1.156 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 75.17 Mbit/s
95th percentile per-packet one-way delay: 1.163 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 78.50 Mbit/s
95th percentile per-packet one-way delay: 1.139 ms
Loss rate: 0.26%
```

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2017-12-20 07:54:04
End at: 2017-12-20 07:54:34
Local clock offset: 1.138 ms
Remote clock offset: -0.781 ms

Below is generated by plot.py at 2017-12-20 14:00:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 150.13 Mbit/s
95th percentile per-packet one-way delay: 1.085 ms
Loss rate: 0.11%

-- Flow 1:

Average throughput: 79.81 Mbit/s
95th percentile per-packet one-way delay: 1.075 ms
Loss rate: 0.10%

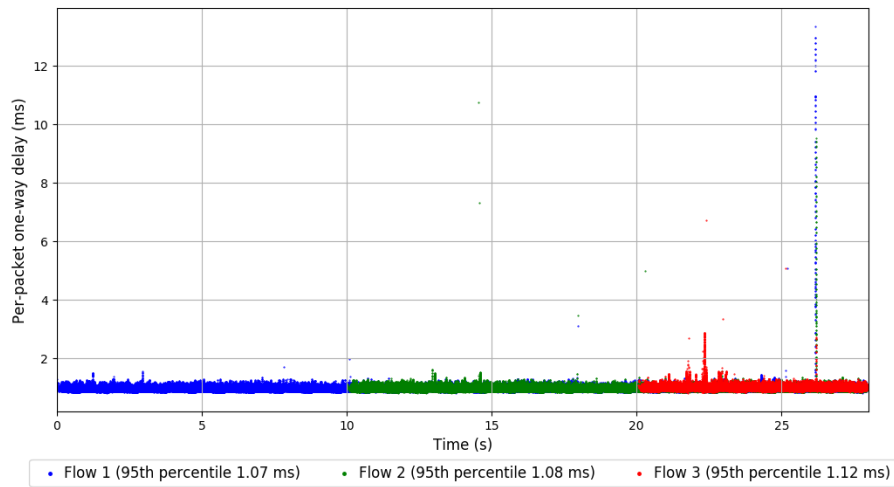
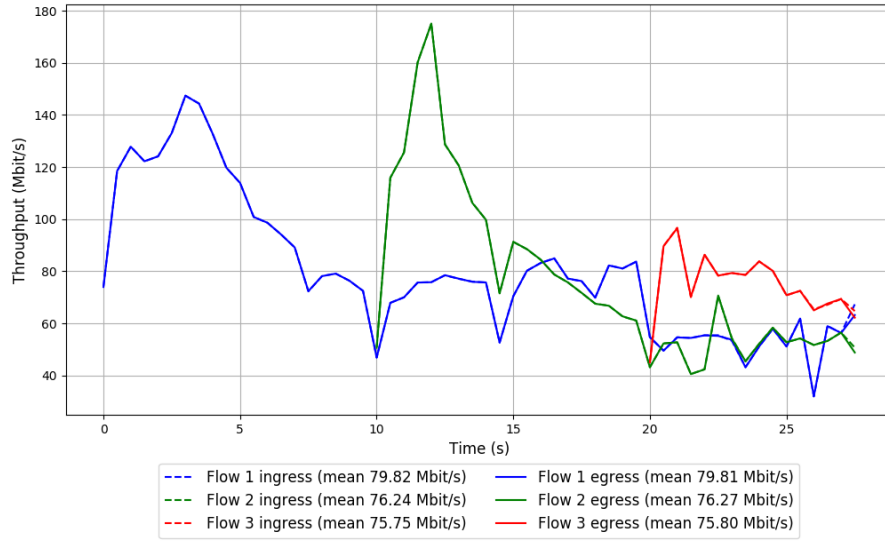
-- Flow 2:

Average throughput: 76.27 Mbit/s
95th percentile per-packet one-way delay: 1.084 ms
Loss rate: 0.07%

-- Flow 3:

Average throughput: 75.80 Mbit/s
95th percentile per-packet one-way delay: 1.121 ms
Loss rate: 0.23%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2017-12-20 08:16:17
End at: 2017-12-20 08:16:47
Local clock offset: 1.202 ms
Remote clock offset: -0.514 ms

Below is generated by plot.py at 2017-12-20 14:00:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 155.13 Mbit/s
95th percentile per-packet one-way delay: 1.261 ms
Loss rate: 0.05%

-- Flow 1:

Average throughput: 80.17 Mbit/s
95th percentile per-packet one-way delay: 1.260 ms
Loss rate: 0.03%

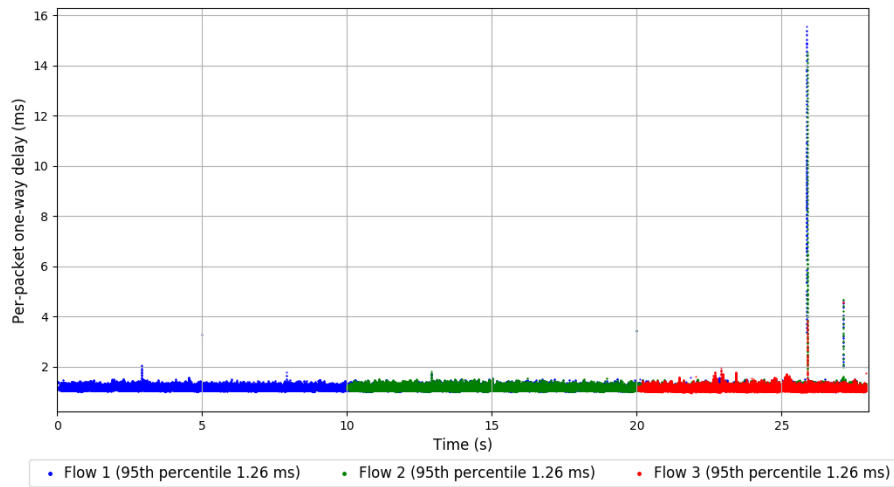
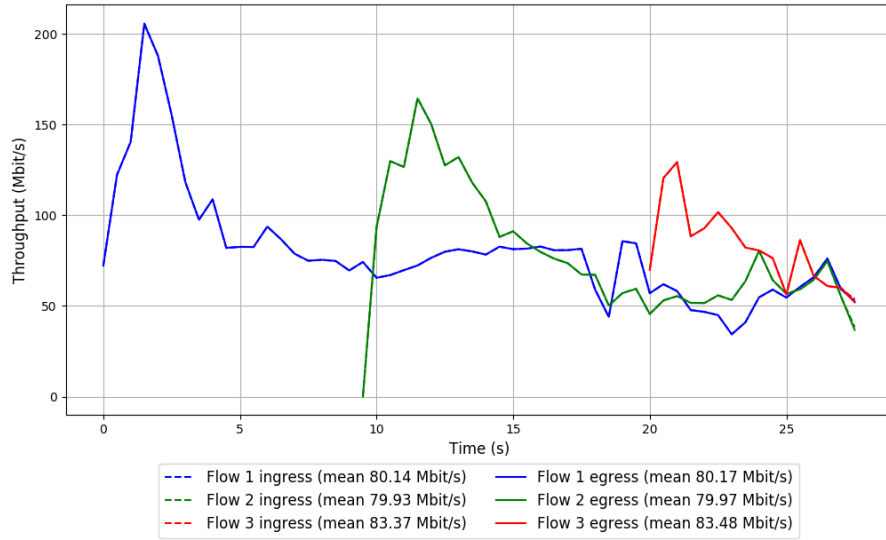
-- Flow 2:

Average throughput: 79.97 Mbit/s
95th percentile per-packet one-way delay: 1.265 ms
Loss rate: 0.06%

-- Flow 3:

Average throughput: 83.48 Mbit/s
95th percentile per-packet one-way delay: 1.259 ms
Loss rate: 0.10%

Run 10: Report of Copa — Data Link



Run 1: Statistics of FillP

Start at: 2017-12-20 04:57:14
End at: 2017-12-20 04:57:44
Local clock offset: 0.053 ms
Remote clock offset: -2.743 ms

Below is generated by plot.py at 2017-12-20 14:12:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 939.92 Mbit/s
95th percentile per-packet one-way delay: 3.866 ms
Loss rate: 0.08%

-- Flow 1:

Average throughput: 568.79 Mbit/s
95th percentile per-packet one-way delay: 3.832 ms
Loss rate: 0.05%

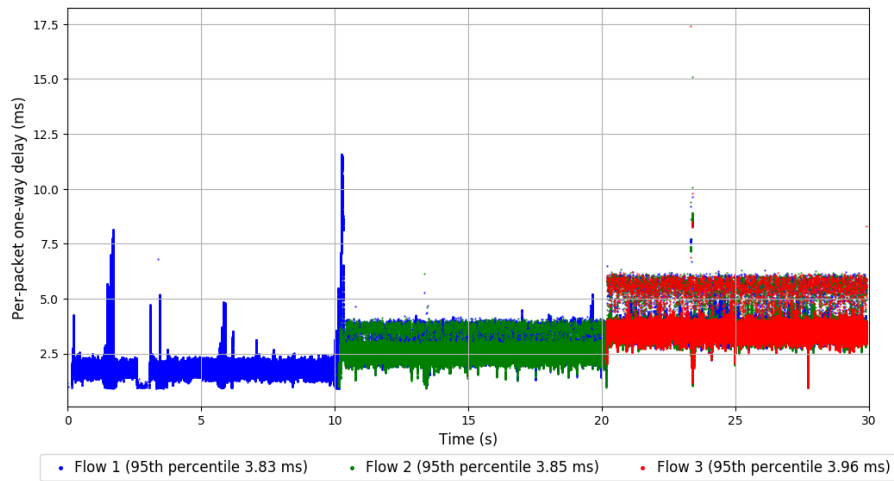
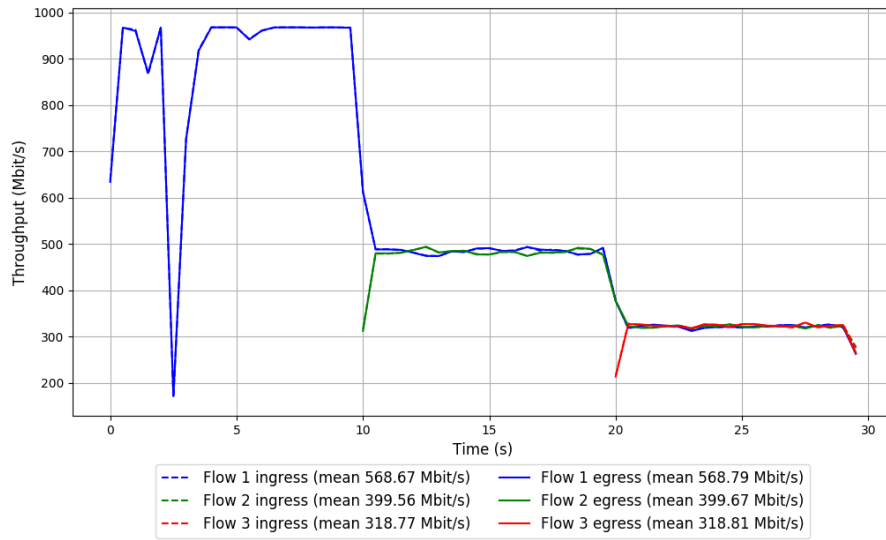
-- Flow 2:

Average throughput: 399.67 Mbit/s
95th percentile per-packet one-way delay: 3.846 ms
Loss rate: 0.09%

-- Flow 3:

Average throughput: 318.81 Mbit/s
95th percentile per-packet one-way delay: 3.957 ms
Loss rate: 0.23%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2017-12-20 05:19:30
End at: 2017-12-20 05:20:00
Local clock offset: 0.085 ms
Remote clock offset: -2.224 ms

Below is generated by plot.py at 2017-12-20 14:12:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 942.28 Mbit/s
95th percentile per-packet one-way delay: 41.835 ms
Loss rate: 0.42%

-- Flow 1:

Average throughput: 557.32 Mbit/s
95th percentile per-packet one-way delay: 39.436 ms
Loss rate: 0.15%

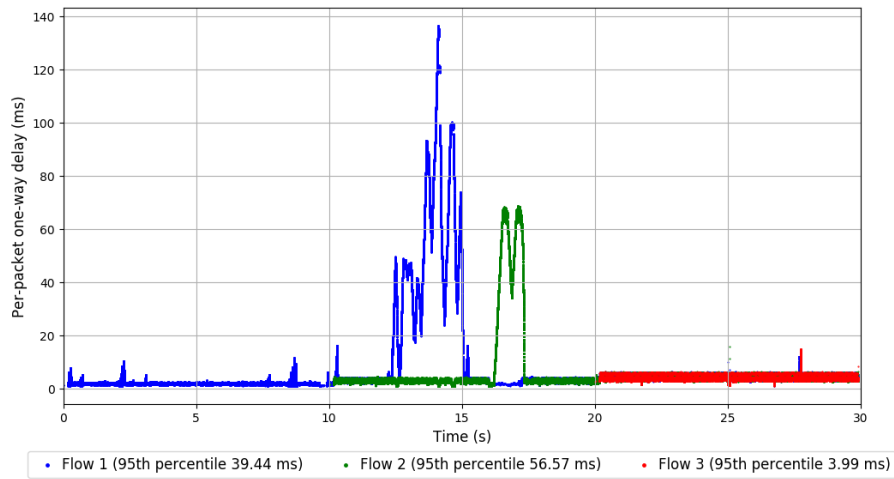
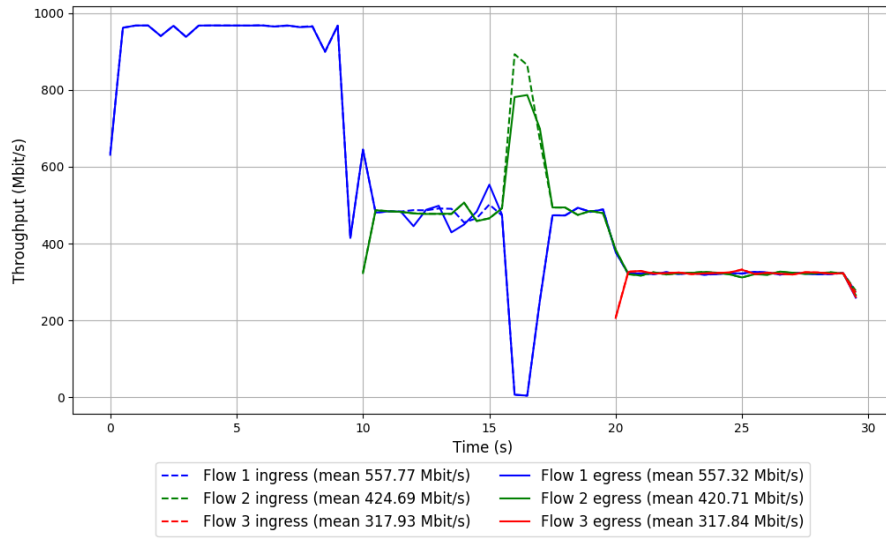
-- Flow 2:

Average throughput: 420.71 Mbit/s
95th percentile per-packet one-way delay: 56.574 ms
Loss rate: 1.04%

-- Flow 3:

Average throughput: 317.84 Mbit/s
95th percentile per-packet one-way delay: 3.989 ms
Loss rate: 0.21%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2017-12-20 05:41:39
End at: 2017-12-20 05:42:09
Local clock offset: 0.189 ms
Remote clock offset: -1.556 ms

Below is generated by plot.py at 2017-12-20 14:12:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 956.20 Mbit/s
95th percentile per-packet one-way delay: 3.770 ms
Loss rate: 0.29%

-- Flow 1:

Average throughput: 586.32 Mbit/s
95th percentile per-packet one-way delay: 3.748 ms
Loss rate: 0.39%

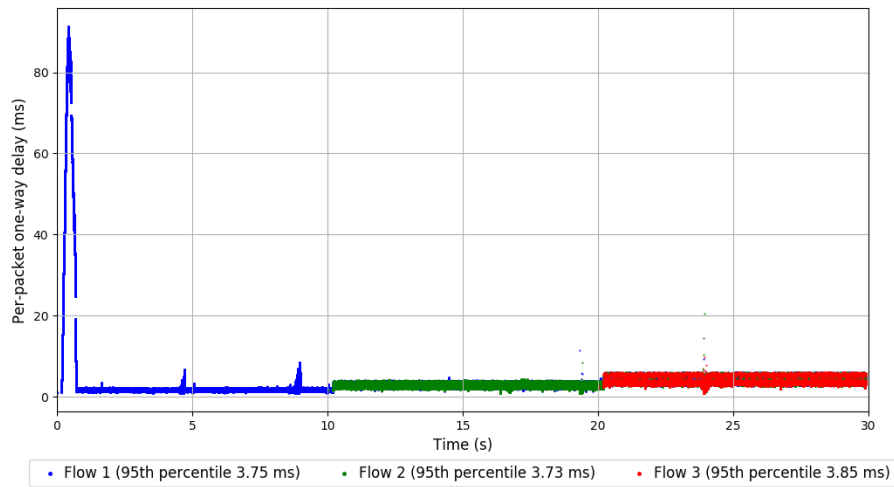
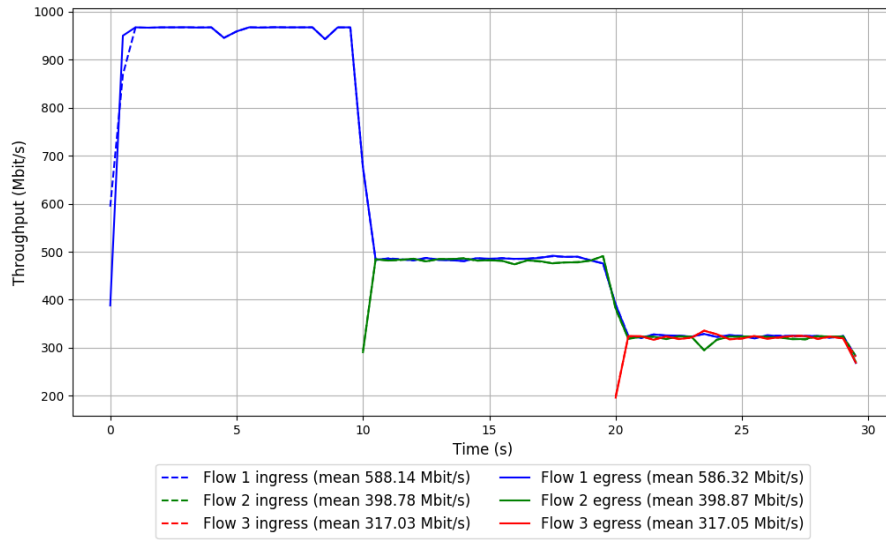
-- Flow 2:

Average throughput: 398.87 Mbit/s
95th percentile per-packet one-way delay: 3.735 ms
Loss rate: 0.09%

-- Flow 3:

Average throughput: 317.05 Mbit/s
95th percentile per-packet one-way delay: 3.850 ms
Loss rate: 0.23%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

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

End at: 2017-12-20 06:04:31

Local clock offset: 0.312 ms

Remote clock offset: -1.17 ms

Below is generated by plot.py at 2017-12-20 14:13:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 936.08 Mbit/s

95th percentile per-packet one-way delay: 3.956 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 551.80 Mbit/s

95th percentile per-packet one-way delay: 3.879 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 420.22 Mbit/s

95th percentile per-packet one-way delay: 3.980 ms

Loss rate: 0.09%

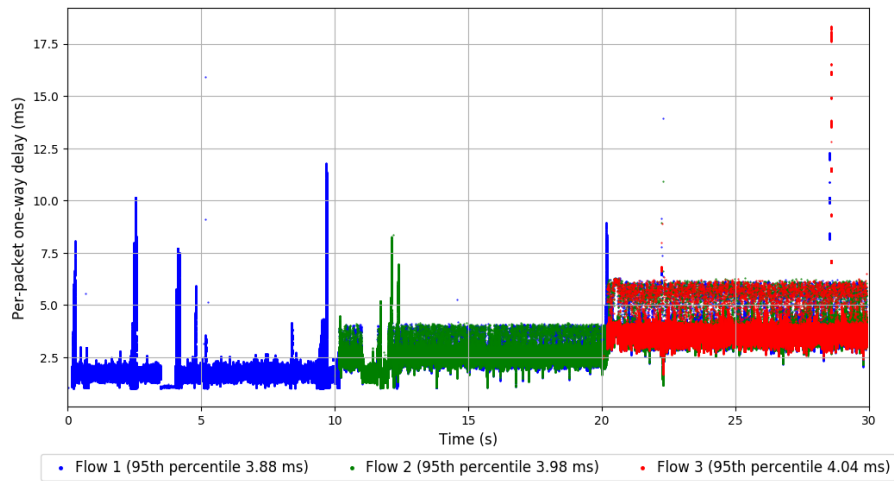
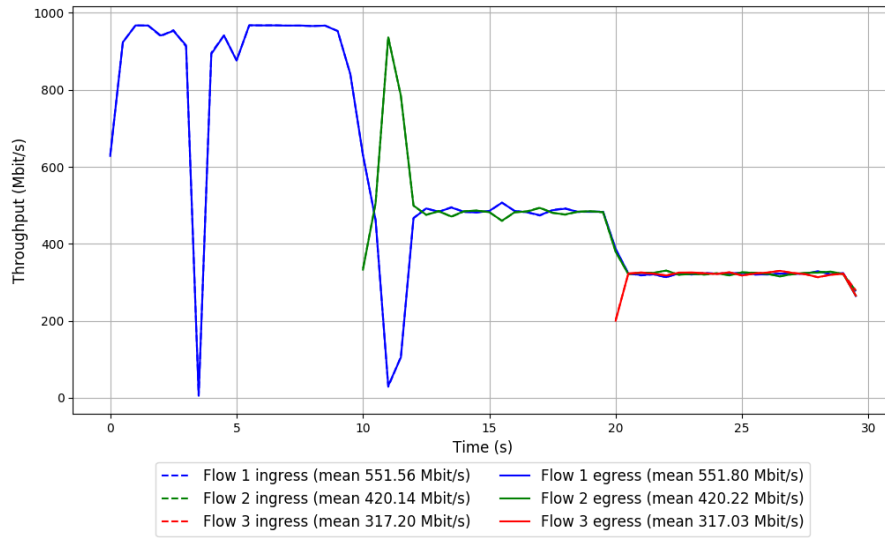
-- Flow 3:

Average throughput: 317.03 Mbit/s

95th percentile per-packet one-way delay: 4.043 ms

Loss rate: 0.25%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2017-12-20 06:26:20

End at: 2017-12-20 06:26:50

Local clock offset: 0.345 ms

Remote clock offset: -0.87 ms

Below is generated by plot.py at 2017-12-20 14:13:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 916.51 Mbit/s

95th percentile per-packet one-way delay: 4.020 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 545.31 Mbit/s

95th percentile per-packet one-way delay: 3.939 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 400.53 Mbit/s

95th percentile per-packet one-way delay: 4.088 ms

Loss rate: 0.09%

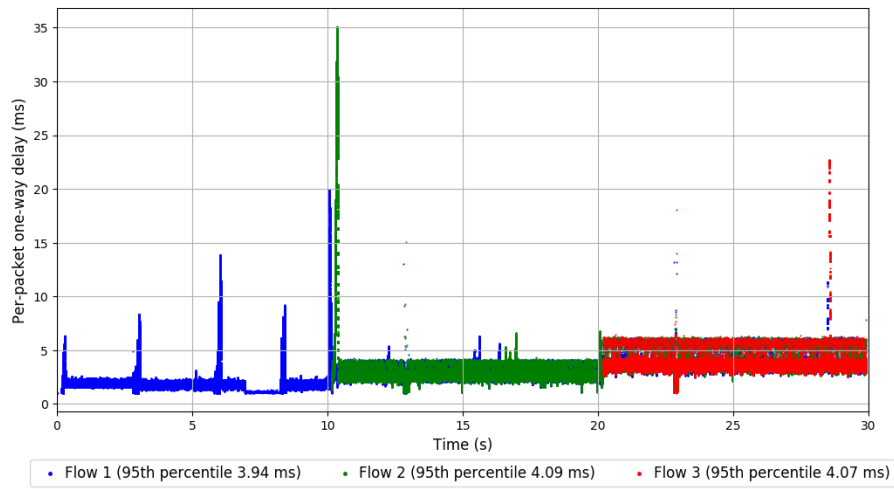
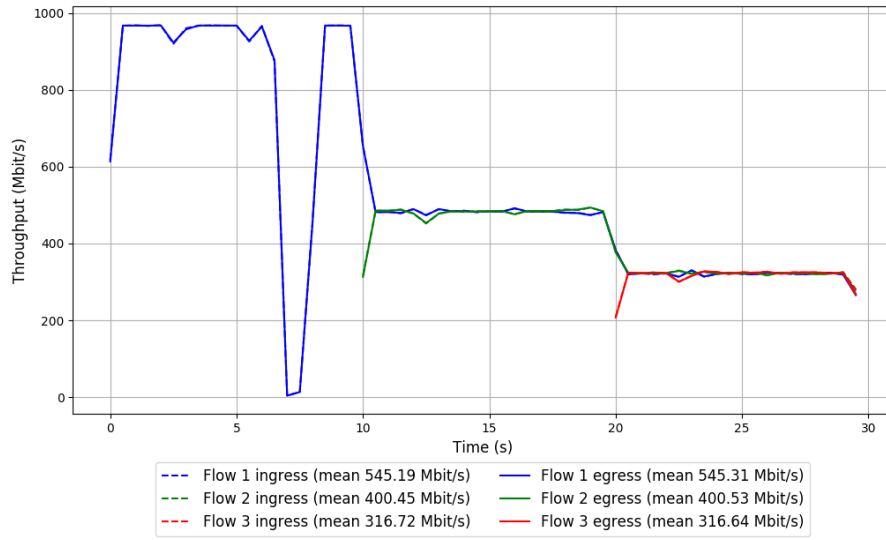
-- Flow 3:

Average throughput: 316.64 Mbit/s

95th percentile per-packet one-way delay: 4.071 ms

Loss rate: 0.24%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2017-12-20 06:48:37
End at: 2017-12-20 06:49:07
Local clock offset: 0.553 ms
Remote clock offset: -0.473 ms

Below is generated by plot.py at 2017-12-20 14:14:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 959.10 Mbit/s
95th percentile per-packet one-way delay: 18.933 ms
Loss rate: 0.14%

-- Flow 1:

Average throughput: 588.78 Mbit/s
95th percentile per-packet one-way delay: 3.783 ms
Loss rate: 0.04%

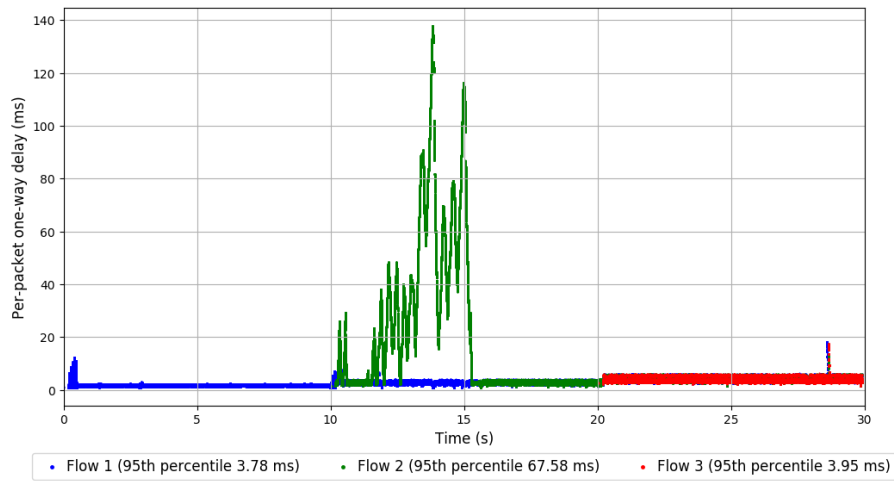
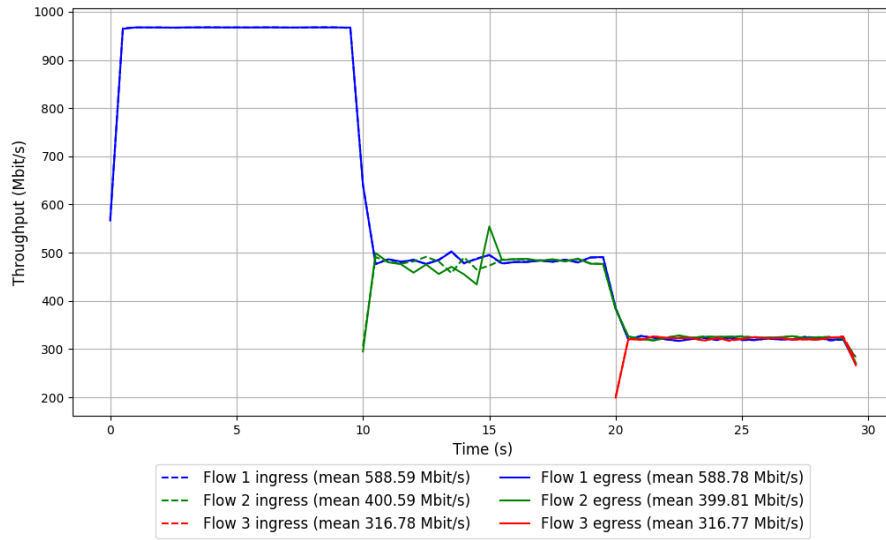
-- Flow 2:

Average throughput: 399.81 Mbit/s
95th percentile per-packet one-way delay: 67.585 ms
Loss rate: 0.33%

-- Flow 3:

Average throughput: 316.77 Mbit/s
95th percentile per-packet one-way delay: 3.954 ms
Loss rate: 0.25%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2017-12-20 07:10:50
End at: 2017-12-20 07:11:20
Local clock offset: 0.9 ms
Remote clock offset: -0.698 ms

Below is generated by plot.py at 2017-12-20 14:14:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 961.59 Mbit/s
95th percentile per-packet one-way delay: 4.172 ms
Loss rate: 0.08%

-- Flow 1:

Average throughput: 589.66 Mbit/s
95th percentile per-packet one-way delay: 11.627 ms
Loss rate: 0.04%

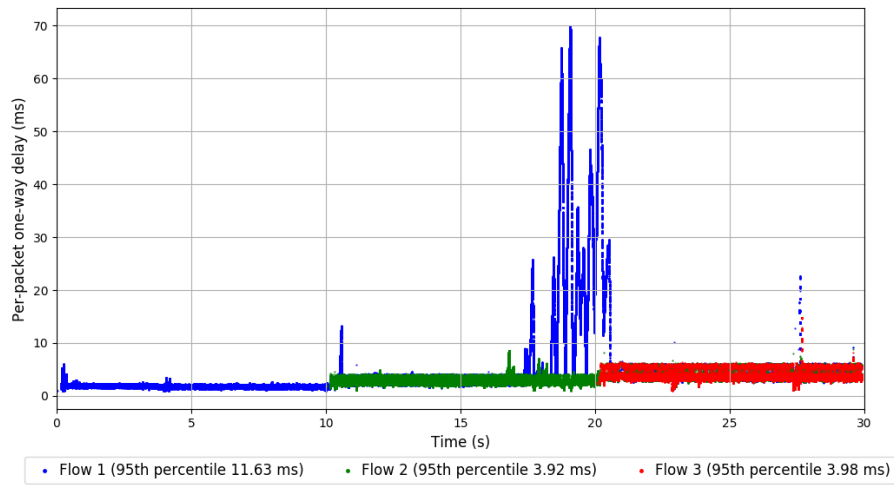
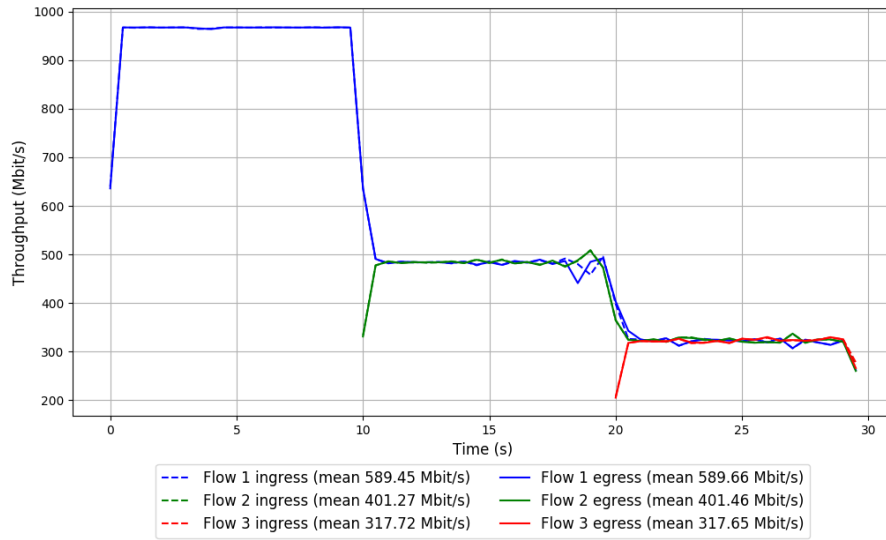
-- Flow 2:

Average throughput: 401.46 Mbit/s
95th percentile per-packet one-way delay: 3.923 ms
Loss rate: 0.10%

-- Flow 3:

Average throughput: 317.65 Mbit/s
95th percentile per-packet one-way delay: 3.976 ms
Loss rate: 0.22%

Run 7: Report of FillP — Data Link

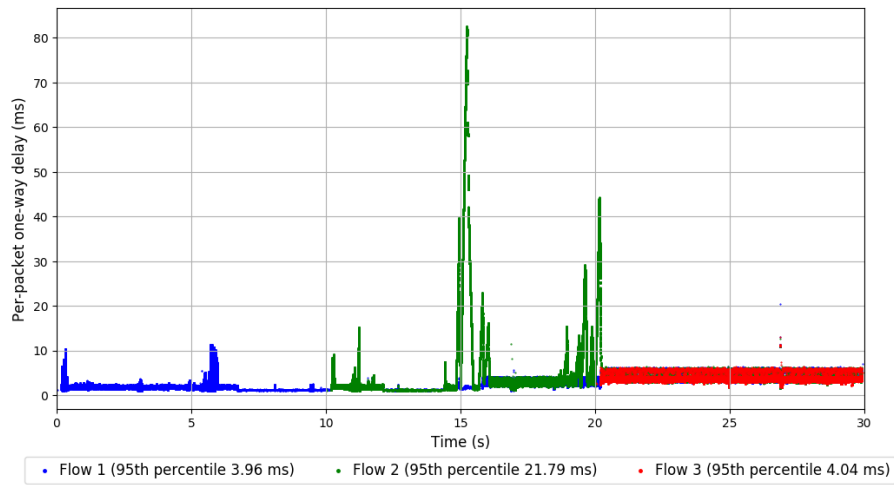
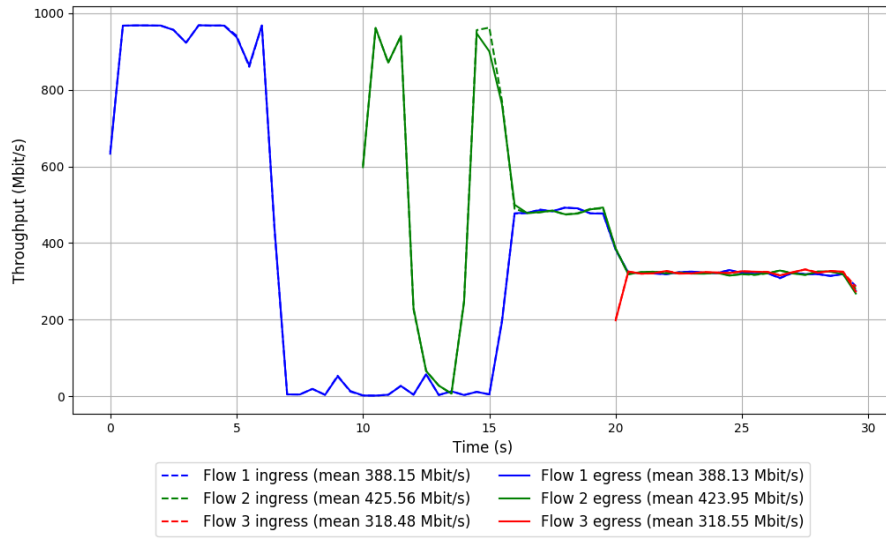


Run 8: Statistics of FillP

Start at: 2017-12-20 07:33:11
End at: 2017-12-20 07:33:41
Local clock offset: 1.043 ms
Remote clock offset: -0.867 ms

```
# Below is generated by plot.py at 2017-12-20 14:14:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 775.36 Mbit/s
95th percentile per-packet one-way delay: 6.463 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 388.13 Mbit/s
95th percentile per-packet one-way delay: 3.965 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 423.95 Mbit/s
95th percentile per-packet one-way delay: 21.789 ms
Loss rate: 0.50%
-- Flow 3:
Average throughput: 318.55 Mbit/s
95th percentile per-packet one-way delay: 4.040 ms
Loss rate: 0.23%
```

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2017-12-20 07:55:25
End at: 2017-12-20 07:55:55
Local clock offset: 1.158 ms
Remote clock offset: -0.703 ms

Below is generated by plot.py at 2017-12-20 14:21:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 779.47 Mbit/s
95th percentile per-packet one-way delay: 54.175 ms
Loss rate: 0.79%

-- Flow 1:

Average throughput: 387.37 Mbit/s
95th percentile per-packet one-way delay: 4.803 ms
Loss rate: 0.06%

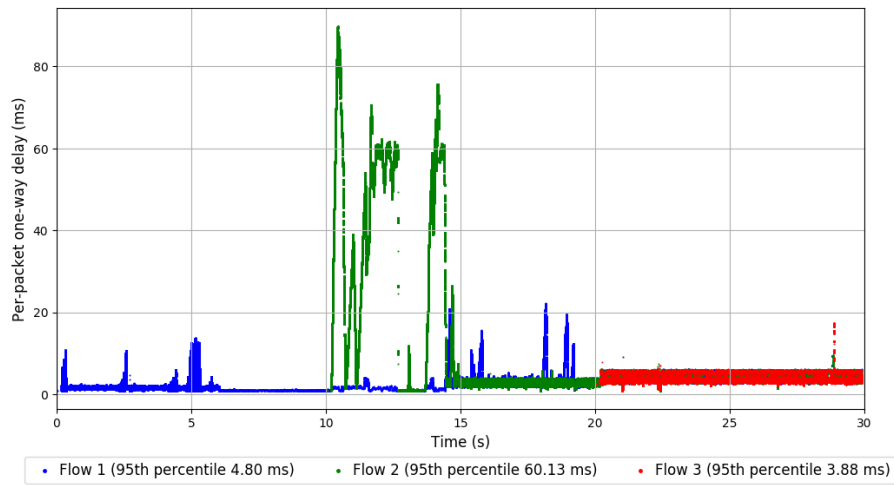
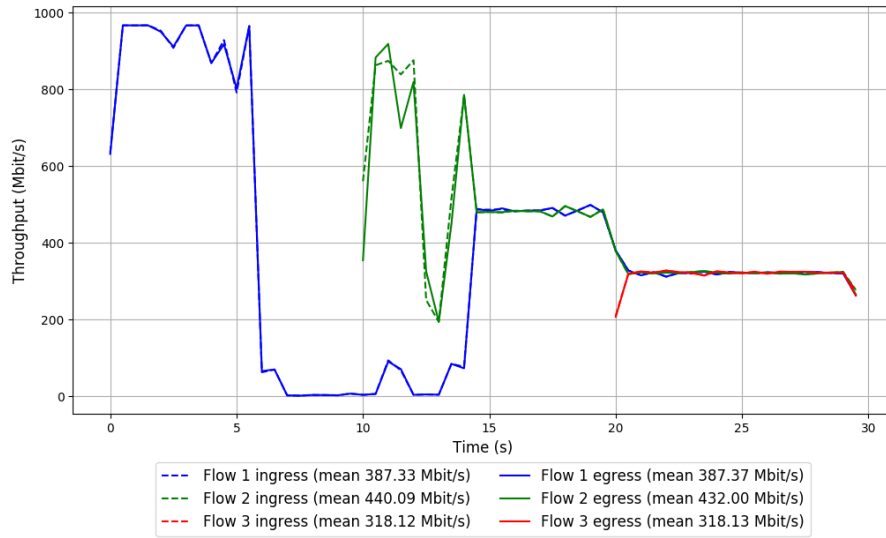
-- Flow 2:

Average throughput: 432.00 Mbit/s
95th percentile per-packet one-way delay: 60.132 ms
Loss rate: 1.95%

-- Flow 3:

Average throughput: 318.13 Mbit/s
95th percentile per-packet one-way delay: 3.879 ms
Loss rate: 0.22%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2017-12-20 08:17:39
End at: 2017-12-20 08:18:09
Local clock offset: 1.086 ms
Remote clock offset: -0.497 ms

Below is generated by plot.py at 2017-12-20 14:21:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 930.60 Mbit/s
95th percentile per-packet one-way delay: 3.886 ms
Loss rate: 0.08%

-- Flow 1:

Average throughput: 557.32 Mbit/s
95th percentile per-packet one-way delay: 3.791 ms
Loss rate: 0.04%

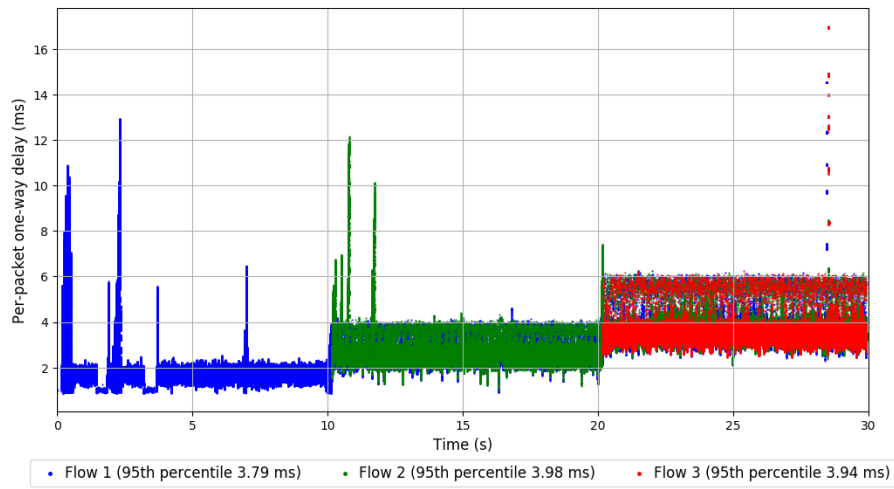
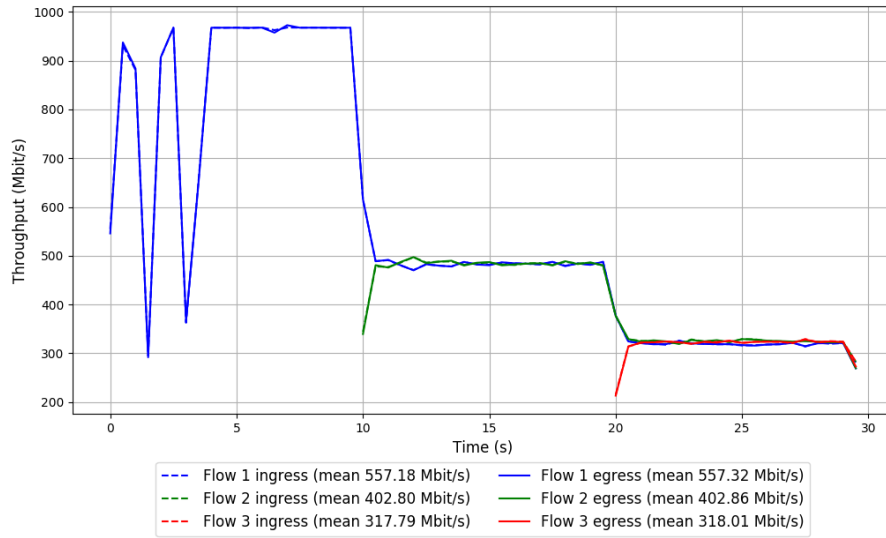
-- Flow 2:

Average throughput: 402.86 Mbit/s
95th percentile per-packet one-way delay: 3.983 ms
Loss rate: 0.10%

-- Flow 3:

Average throughput: 318.01 Mbit/s
95th percentile per-packet one-way delay: 3.935 ms
Loss rate: 0.22%

Run 10: Report of FillP — Data Link



Run 1: Statistics of Indigo

Start at: 2017-12-20 05:09:55
End at: 2017-12-20 05:10:25
Local clock offset: 0.084 ms
Remote clock offset: -2.493 ms

Below is generated by plot.py at 2017-12-20 14:21:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 217.90 Mbit/s
95th percentile per-packet one-way delay: 1.257 ms
Loss rate: 0.12%

-- Flow 1:

Average throughput: 50.16 Mbit/s
95th percentile per-packet one-way delay: 1.201 ms
Loss rate: 0.07%

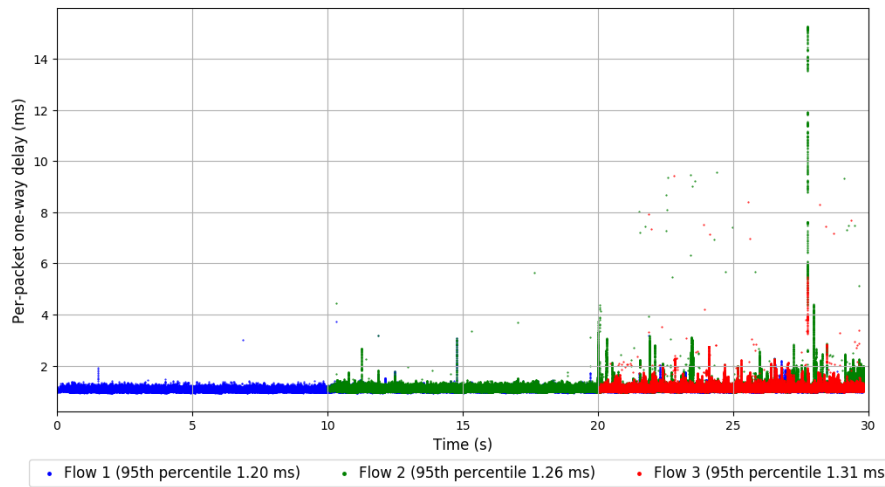
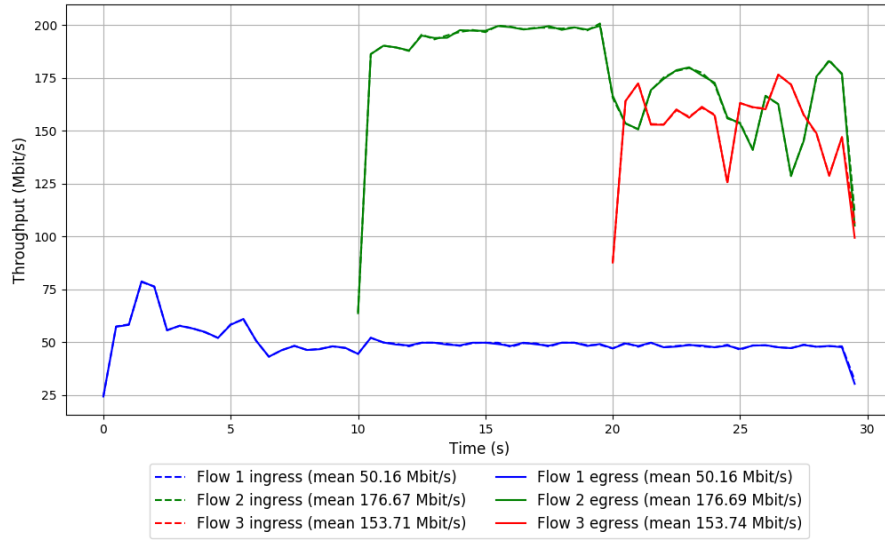
-- Flow 2:

Average throughput: 176.69 Mbit/s
95th percentile per-packet one-way delay: 1.259 ms
Loss rate: 0.09%

-- Flow 3:

Average throughput: 153.74 Mbit/s
95th percentile per-packet one-way delay: 1.307 ms
Loss rate: 0.23%

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2017-12-20 05:32:02
End at: 2017-12-20 05:32:32
Local clock offset: 0.228 ms
Remote clock offset: -1.856 ms

Below is generated by plot.py at 2017-12-20 14:21:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 290.48 Mbit/s
95th percentile per-packet one-way delay: 1.334 ms
Loss rate: 0.08%

-- Flow 1:

Average throughput: 178.73 Mbit/s
95th percentile per-packet one-way delay: 1.327 ms
Loss rate: 0.05%

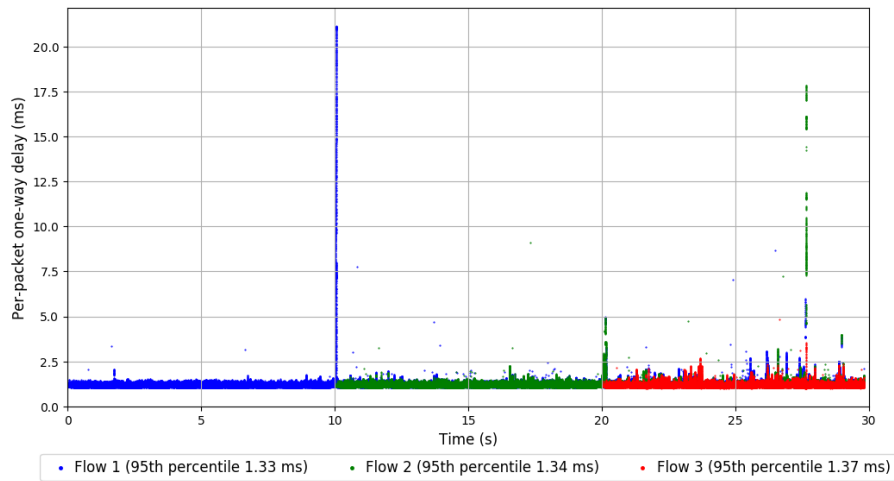
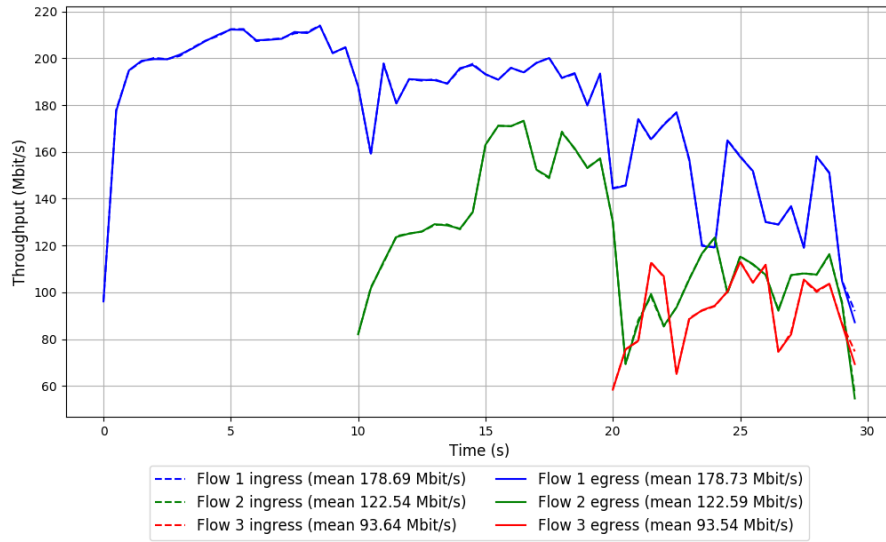
-- Flow 2:

Average throughput: 122.59 Mbit/s
95th percentile per-packet one-way delay: 1.339 ms
Loss rate: 0.06%

-- Flow 3:

Average throughput: 93.54 Mbit/s
95th percentile per-packet one-way delay: 1.372 ms
Loss rate: 0.31%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2017-12-20 05:54:18
End at: 2017-12-20 05:54:48
Local clock offset: 0.203 ms
Remote clock offset: -1.201 ms

Below is generated by plot.py at 2017-12-20 14:21:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 294.05 Mbit/s
95th percentile per-packet one-way delay: 1.118 ms
Loss rate: 0.08%

-- Flow 1:

Average throughput: 168.70 Mbit/s
95th percentile per-packet one-way delay: 1.118 ms
Loss rate: 0.05%

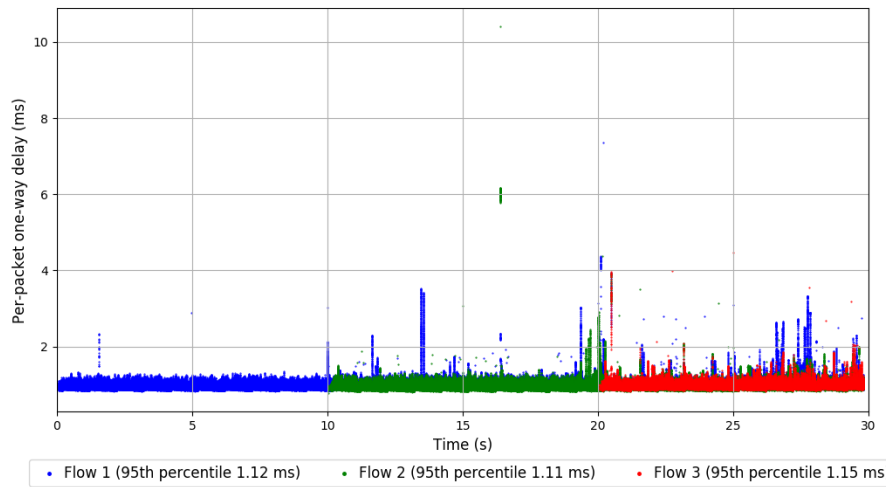
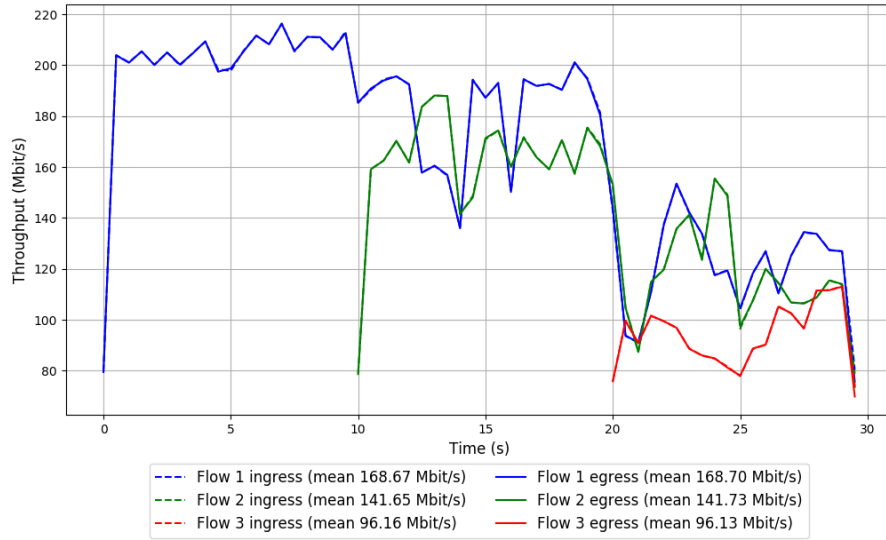
-- Flow 2:

Average throughput: 141.73 Mbit/s
95th percentile per-packet one-way delay: 1.107 ms
Loss rate: 0.09%

-- Flow 3:

Average throughput: 96.13 Mbit/s
95th percentile per-packet one-way delay: 1.147 ms
Loss rate: 0.24%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2017-12-20 06:16:38
End at: 2017-12-20 06:17:09
Local clock offset: 0.224 ms
Remote clock offset: -0.979 ms

Below is generated by plot.py at 2017-12-20 14:21:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 302.98 Mbit/s
95th percentile per-packet one-way delay: 1.182 ms
Loss rate: 0.07%

-- Flow 1:

Average throughput: 172.10 Mbit/s
95th percentile per-packet one-way delay: 1.157 ms
Loss rate: 0.04%

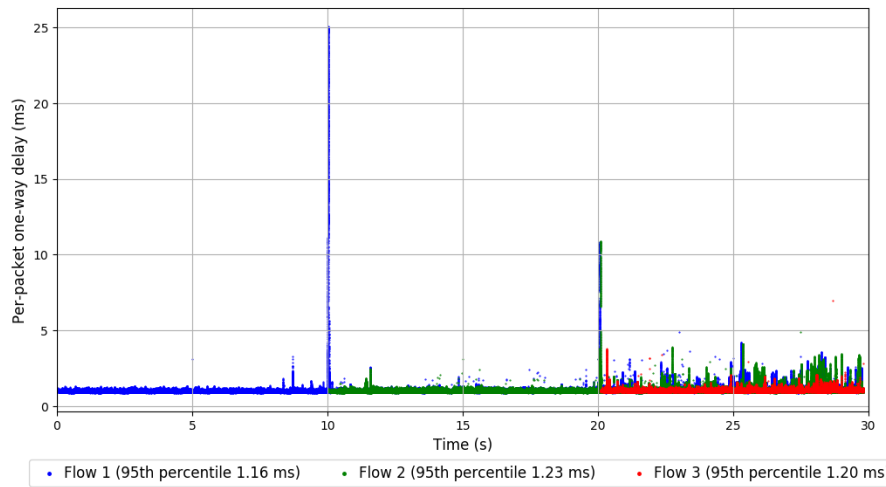
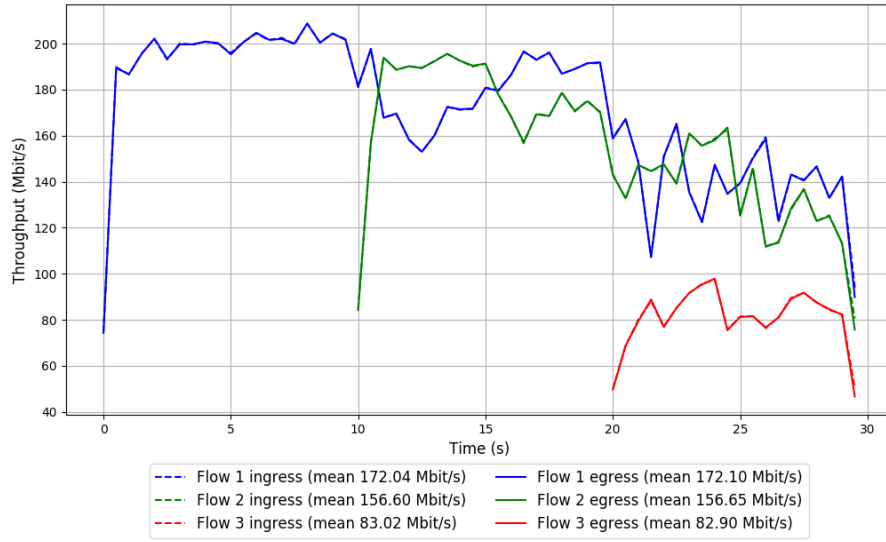
-- Flow 2:

Average throughput: 156.65 Mbit/s
95th percentile per-packet one-way delay: 1.230 ms
Loss rate: 0.08%

-- Flow 3:

Average throughput: 82.90 Mbit/s
95th percentile per-packet one-way delay: 1.200 ms
Loss rate: 0.24%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2017-12-20 06:38:59
End at: 2017-12-20 06:39:29
Local clock offset: 0.456 ms
Remote clock offset: -0.461 ms

Below is generated by plot.py at 2017-12-20 14:21:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 248.43 Mbit/s
95th percentile per-packet one-way delay: 1.226 ms
Loss rate: 0.10%

-- Flow 1:

Average throughput: 99.55 Mbit/s
95th percentile per-packet one-way delay: 1.194 ms
Loss rate: 0.08%

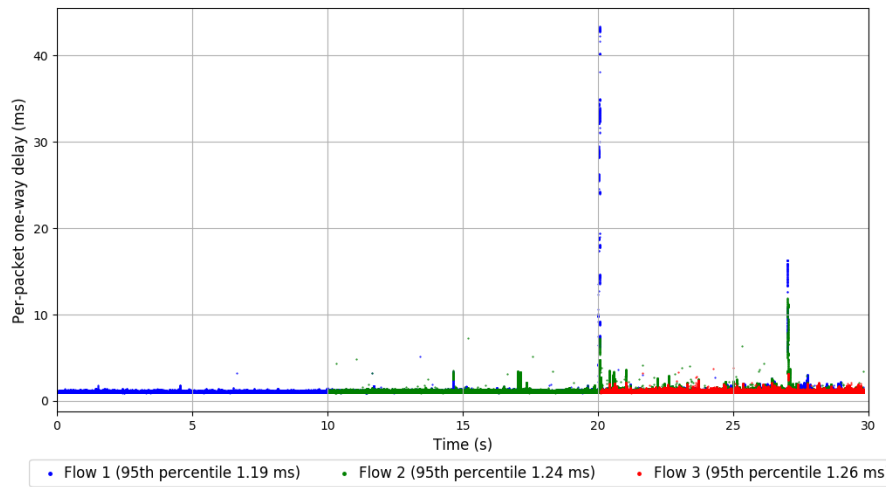
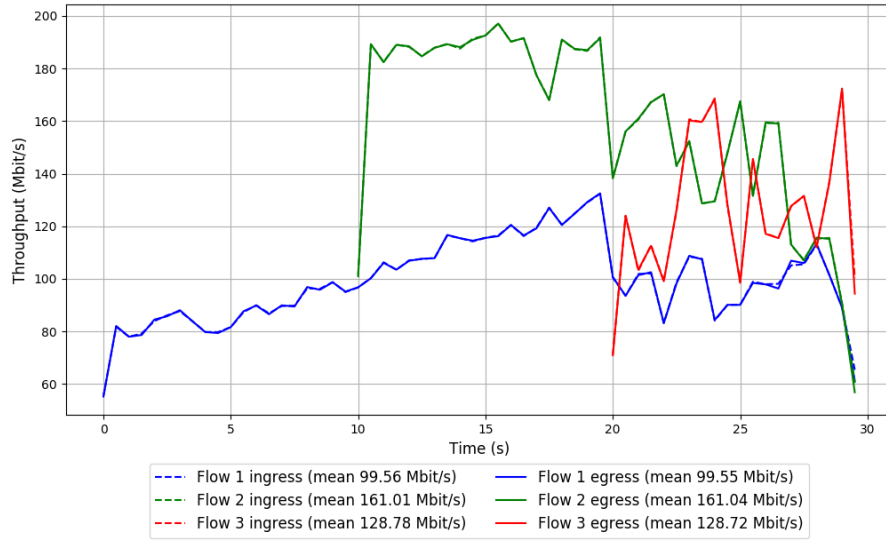
-- Flow 2:

Average throughput: 161.04 Mbit/s
95th percentile per-packet one-way delay: 1.242 ms
Loss rate: 0.07%

-- Flow 3:

Average throughput: 128.72 Mbit/s
95th percentile per-packet one-way delay: 1.260 ms
Loss rate: 0.24%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2017-12-20 07:01:09
End at: 2017-12-20 07:01:39
Local clock offset: 0.676 ms
Remote clock offset: -0.709 ms

Below is generated by plot.py at 2017-12-20 14:21:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 299.84 Mbit/s
95th percentile per-packet one-way delay: 1.177 ms
Loss rate: 0.09%

-- Flow 1:

Average throughput: 163.17 Mbit/s
95th percentile per-packet one-way delay: 1.156 ms
Loss rate: 0.05%

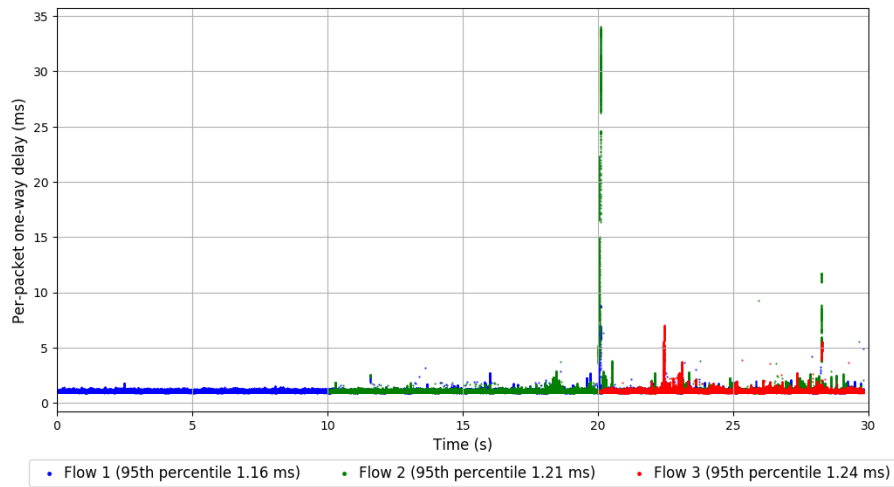
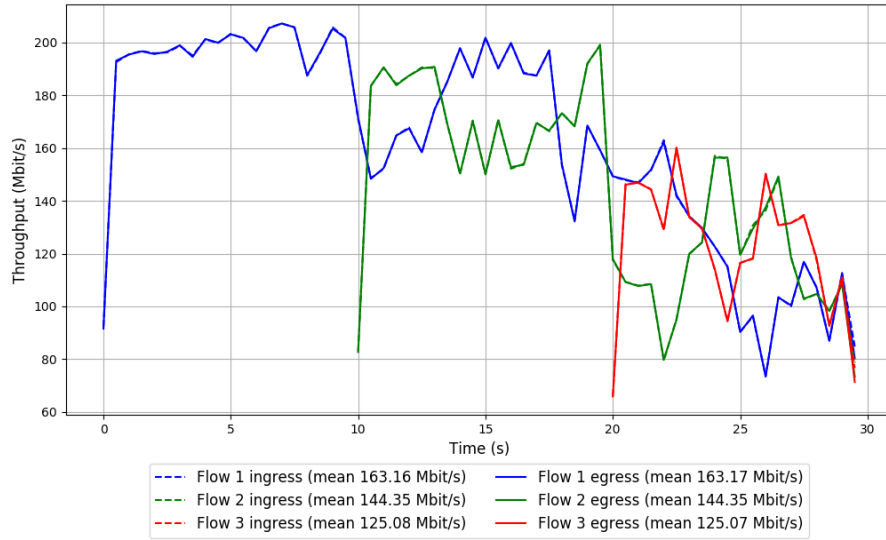
-- Flow 2:

Average throughput: 144.35 Mbit/s
95th percentile per-packet one-way delay: 1.206 ms
Loss rate: 0.10%

-- Flow 3:

Average throughput: 125.07 Mbit/s
95th percentile per-packet one-way delay: 1.236 ms
Loss rate: 0.22%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2017-12-20 07:23:33
End at: 2017-12-20 07:24:03
Local clock offset: 0.996 ms
Remote clock offset: -0.674 ms

Below is generated by plot.py at 2017-12-20 14:21:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 294.76 Mbit/s
95th percentile per-packet one-way delay: 1.299 ms
Loss rate: 0.08%

-- Flow 1:

Average throughput: 169.65 Mbit/s
95th percentile per-packet one-way delay: 1.281 ms
Loss rate: 0.07%

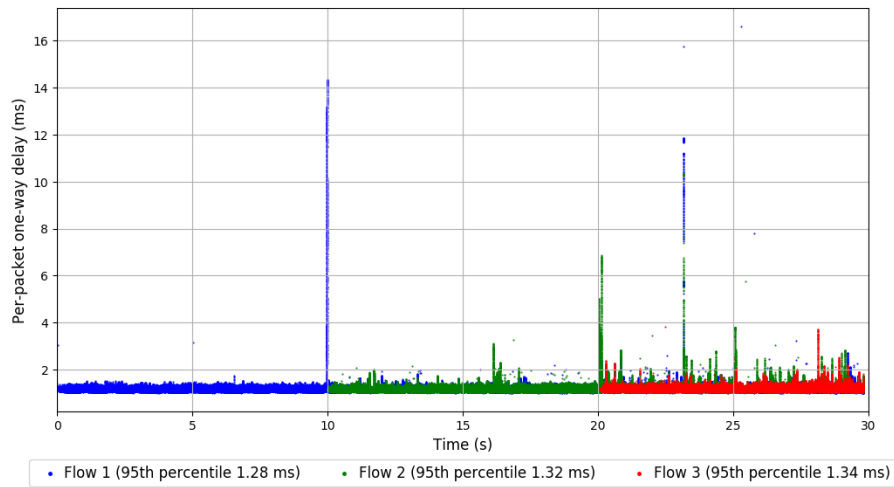
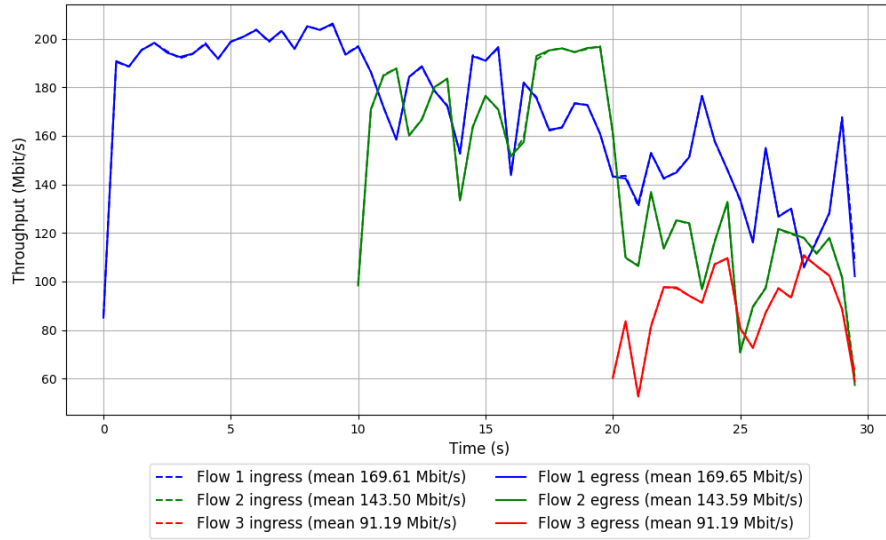
-- Flow 2:

Average throughput: 143.59 Mbit/s
95th percentile per-packet one-way delay: 1.320 ms
Loss rate: 0.06%

-- Flow 3:

Average throughput: 91.19 Mbit/s
95th percentile per-packet one-way delay: 1.344 ms
Loss rate: 0.24%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2017-12-20 07:45:45
End at: 2017-12-20 07:46:15
Local clock offset: 1.073 ms
Remote clock offset: -0.892 ms

Below is generated by plot.py at 2017-12-20 14:21:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 309.50 Mbit/s
95th percentile per-packet one-way delay: 1.140 ms
Loss rate: 0.08%

-- Flow 1:

Average throughput: 169.15 Mbit/s
95th percentile per-packet one-way delay: 1.122 ms
Loss rate: 0.06%

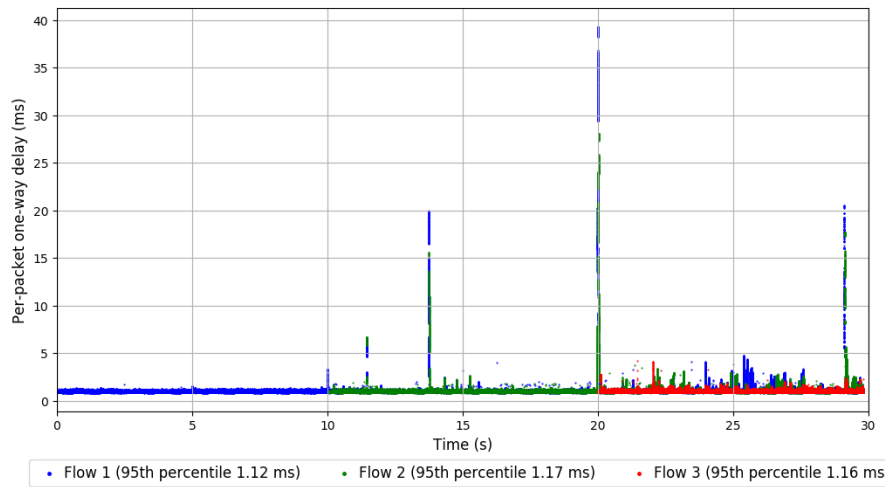
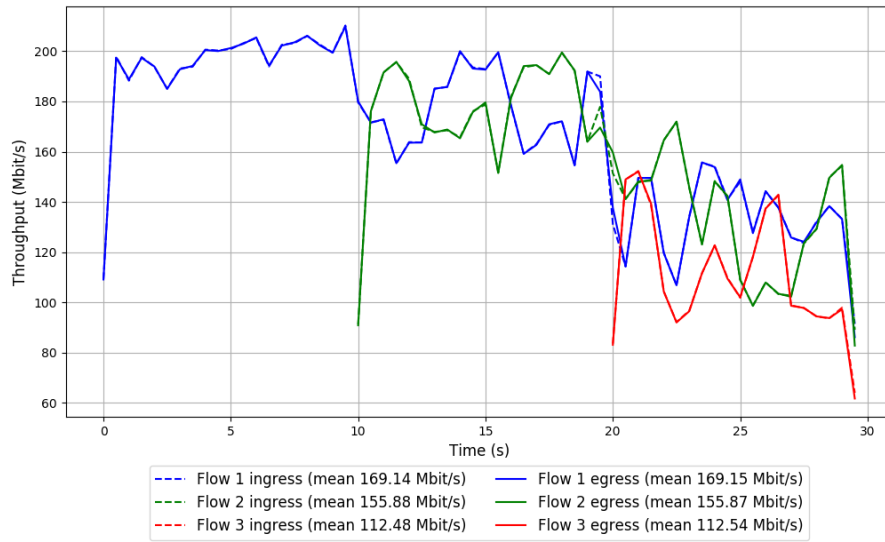
-- Flow 2:

Average throughput: 155.87 Mbit/s
95th percentile per-packet one-way delay: 1.168 ms
Loss rate: 0.10%

-- Flow 3:

Average throughput: 112.54 Mbit/s
95th percentile per-packet one-way delay: 1.160 ms
Loss rate: 0.13%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2017-12-20 08:08:02

End at: 2017-12-20 08:08:32

Local clock offset: 1.241 ms

Remote clock offset: -0.5 ms

Below is generated by plot.py at 2017-12-20 14:21:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 300.33 Mbit/s

95th percentile per-packet one-way delay: 1.366 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 170.85 Mbit/s

95th percentile per-packet one-way delay: 1.351 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 150.00 Mbit/s

95th percentile per-packet one-way delay: 1.395 ms

Loss rate: 0.08%

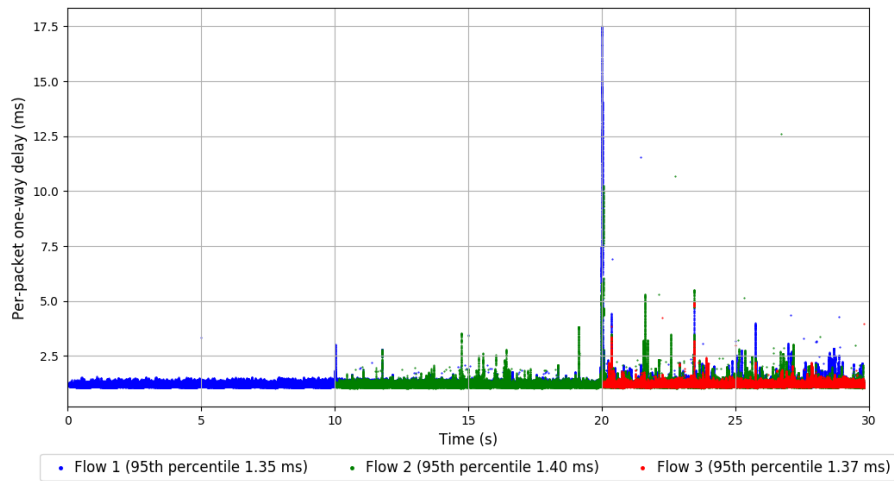
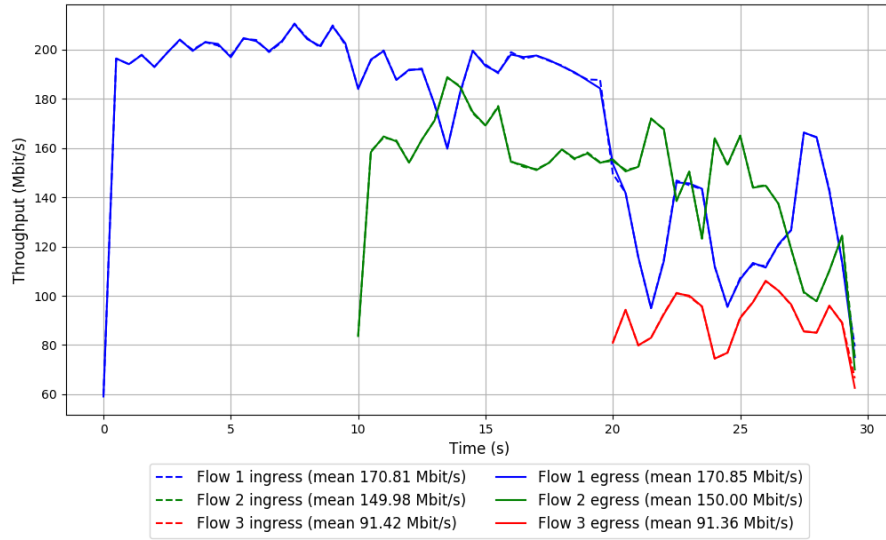
-- Flow 3:

Average throughput: 91.36 Mbit/s

95th percentile per-packet one-way delay: 1.373 ms

Loss rate: 0.23%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2017-12-20 08:30:19
End at: 2017-12-20 08:30:49
Local clock offset: 1.062 ms
Remote clock offset: -0.609 ms

Below is generated by plot.py at 2017-12-20 14:21:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 304.28 Mbit/s
95th percentile per-packet one-way delay: 1.124 ms
Loss rate: 0.08%

-- Flow 1:

Average throughput: 168.67 Mbit/s
95th percentile per-packet one-way delay: 1.109 ms
Loss rate: 0.04%

-- Flow 2:

Average throughput: 151.35 Mbit/s
95th percentile per-packet one-way delay: 1.113 ms
Loss rate: 0.08%

-- Flow 3:

Average throughput: 108.52 Mbit/s
95th percentile per-packet one-way delay: 1.255 ms
Loss rate: 0.27%

Run 10: Report of Indigo — Data Link

