

Pantheon Report

Generated at 2017-12-12 03:34:16 (UTC).

Data path: Mexico Ethernet (*remote*) → AWS California 2 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).

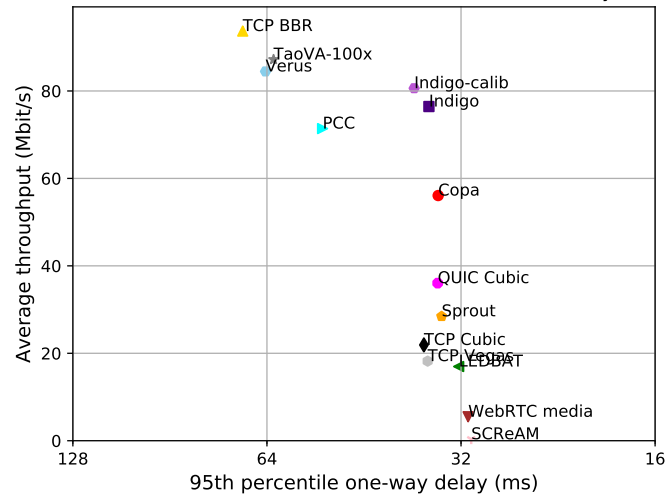
Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo_fast**).

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

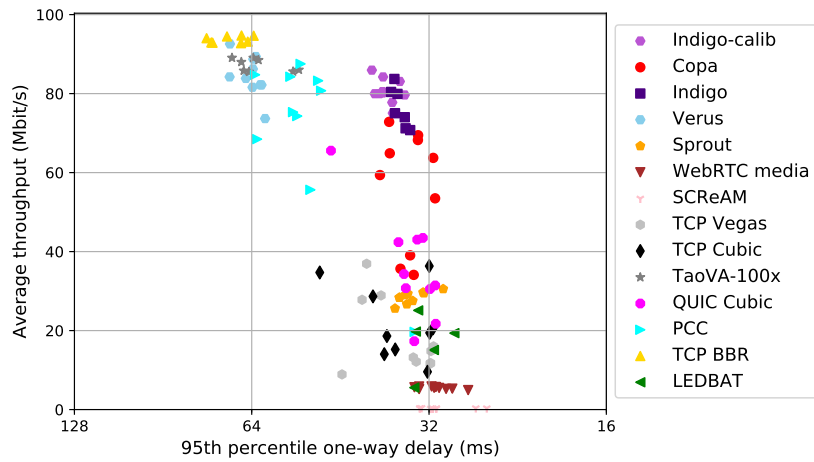
Git summary:

```
branch: indigos @ e3a57ad5ac5cfcaca0e3f983c8dd4cc3509e0262
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/genericCC @ b5b7c38e8391001927dc41c6cfa2627d03dde737
third_party/indigo @ b19f3730105f9aa95452552af924e3719b03cc55
third_party/indigo-cellular @ aee99e8eb842cb053f8c9a80e28cd256a930bbc2
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/indigo-no-cwnd @ 3e58442c04028a11d7b02456e137604633ba2d6c
third_party/indigo-no-delivery-rate @ 57caa40858b964906edff4876d5a7e5bfff666c5
third_party/indigo-no-queuing-delay @ 03455460fd1a8ffbdad86fabb936fdca204b80db
third_party/indigo-no-send-rate @ b39dfa6b2c5f19cb7cd89626cb4f5bb81f9fecda
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
  M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ baf443516dea3eeddeccaf9b916cc313273ca4f4
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
  M receiver/src/buffer.h
  M receiver/src/core.cpp
  M sender/src/buffer.h
  M sender/src/core.cpp
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eae30b267cde681
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 Mexico Ethernet to AWS California 2 Ethernet, 10 runs of 30s each per scheme
3 flows with 10s interval between flows (mean of all runs by scheme)



test from Mexico Ethernet to AWS California 2 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	8	58.37	38.83	27.76	60.97	68.91	72.67	1.34	1.43	1.96
TCP Cubic	9	9.82	13.45	14.09	596.58	33.98	37.14	0.86	0.89	1.36
LEDBAT	5	6.13	9.88	10.88	173.87	32.44	32.12	0.60	1.08	1.25
PCC	10	47.69	22.72	26.23	52.39	40.78	50.56	1.22	1.51	1.90
QUIC Cubic	10	17.40	19.68	16.97	33.60	35.53	37.32	0.94	1.03	1.57
SCReAM	10	0.16	0.16	0.21	30.88	30.58	30.73	0.79	0.80	0.83
WebRTC media	10	2.97	1.81	0.71	31.16	31.18	30.61	0.97	1.03	1.62
Sprout	10	14.42	14.20	13.91	34.03	34.42	34.82	0.98	1.00	1.30
TaoVA-100x	8	53.89	36.95	33.90	54.72	64.45	62.91	1.14	1.38	2.16
TCP Vegas	10	7.87	9.97	11.21	33.01	35.15	38.26	0.87	1.09	1.29
Verus	10	50.00	37.55	29.21	59.90	64.59	67.86	1.51	1.55	1.90
Copa	10	35.84	25.36	13.95	34.19	35.50	36.61	1.04	0.98	1.67
Indigo	7	43.52	32.84	32.75	35.25	36.64	38.05	1.49	1.63	2.09
Indigo-calib	10	46.71	34.54	33.82	37.00	39.01	41.78	1.20	1.42	2.00

Run 1: Statistics of TCP BBR

Start at: 2017-12-11 20:02:13

End at: 2017-12-11 20:02:43

Local clock offset: -0.941 ms

Remote clock offset: -5.46 ms

Below is generated by plot.py at 2017-12-12 03:20:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.71 Mbit/s

95th percentile per-packet one-way delay: 66.607 ms

Loss rate: 0.78%

-- Flow 1:

Average throughput: 57.50 Mbit/s

95th percentile per-packet one-way delay: 61.668 ms

Loss rate: 0.69%

-- Flow 2:

Average throughput: 39.70 Mbit/s

95th percentile per-packet one-way delay: 67.357 ms

Loss rate: 0.81%

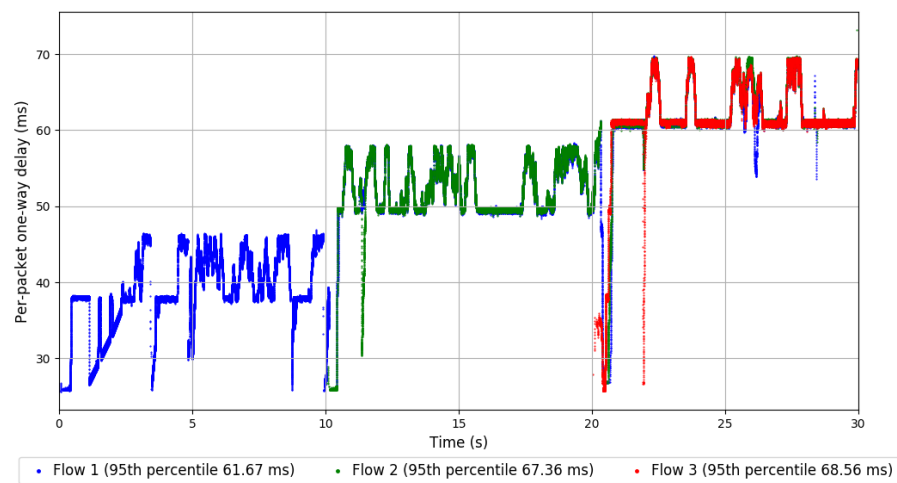
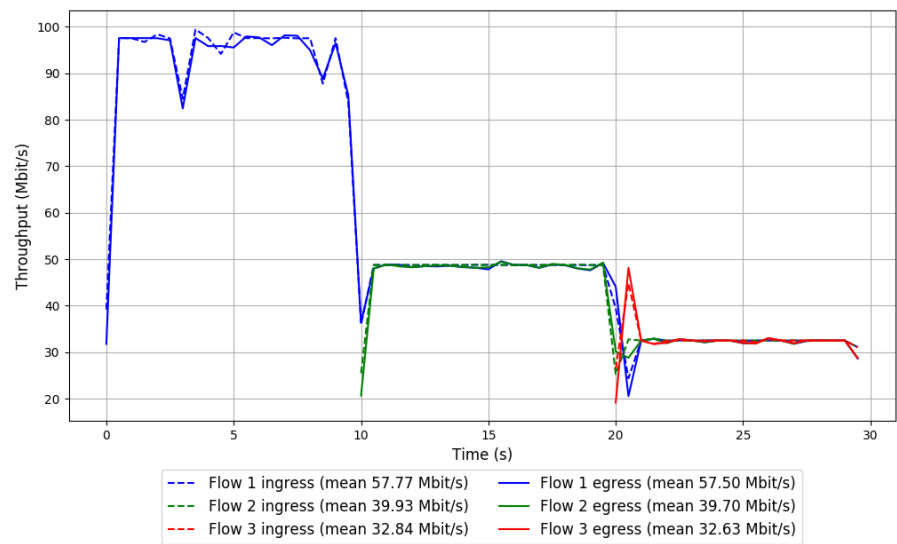
-- Flow 3:

Average throughput: 32.63 Mbit/s

95th percentile per-packet one-way delay: 68.557 ms

Loss rate: 1.20%

Run 1: Report of TCP BBR — Data Link

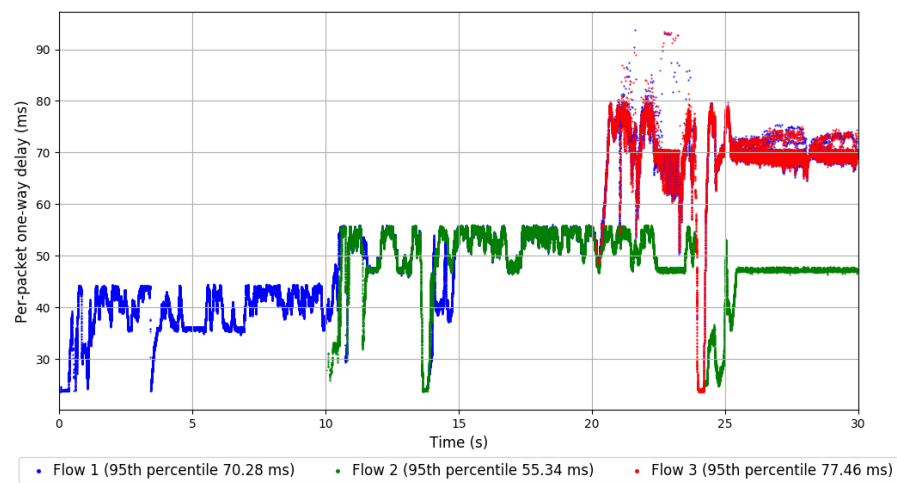
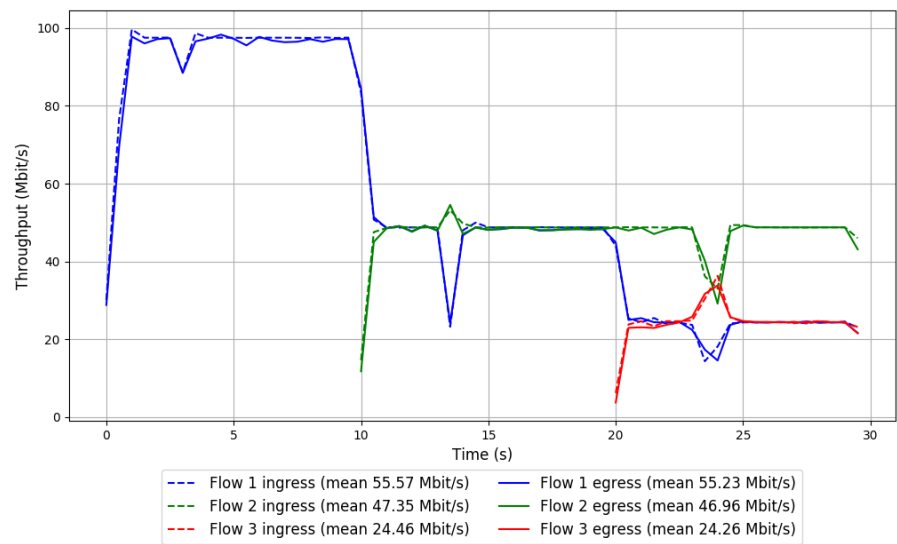


Run 2: Statistics of TCP BBR

Start at: 2017-12-11 20:21:42
End at: 2017-12-11 20:22:12
Local clock offset: -1.315 ms
Remote clock offset: -3.046 ms

Below is generated by plot.py at 2017-12-12 03:20:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 94.48 Mbit/s
95th percentile per-packet one-way delay: 70.495 ms
Loss rate: 1.01%
-- Flow 1:
Average throughput: 55.23 Mbit/s
95th percentile per-packet one-way delay: 70.276 ms
Loss rate: 0.86%
-- Flow 2:
Average throughput: 46.96 Mbit/s
95th percentile per-packet one-way delay: 55.340 ms
Loss rate: 1.11%
-- Flow 3:
Average throughput: 24.26 Mbit/s
95th percentile per-packet one-way delay: 77.460 ms
Loss rate: 1.64%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

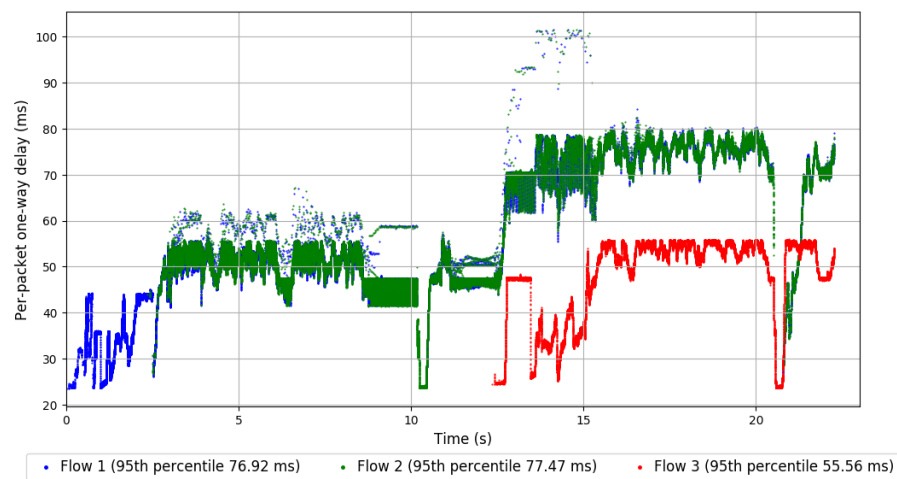
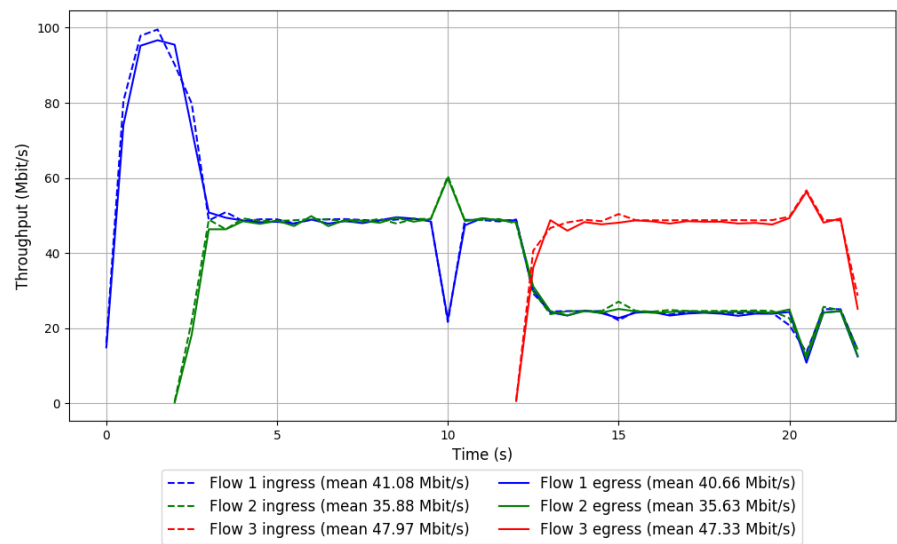
Start at: 2017-12-11 20:41:48

End at: 2017-12-11 20:42:18

Local clock offset: -1.322 ms

Remote clock offset: -2.784 ms

Run 3: Report of TCP BBR — Data Link

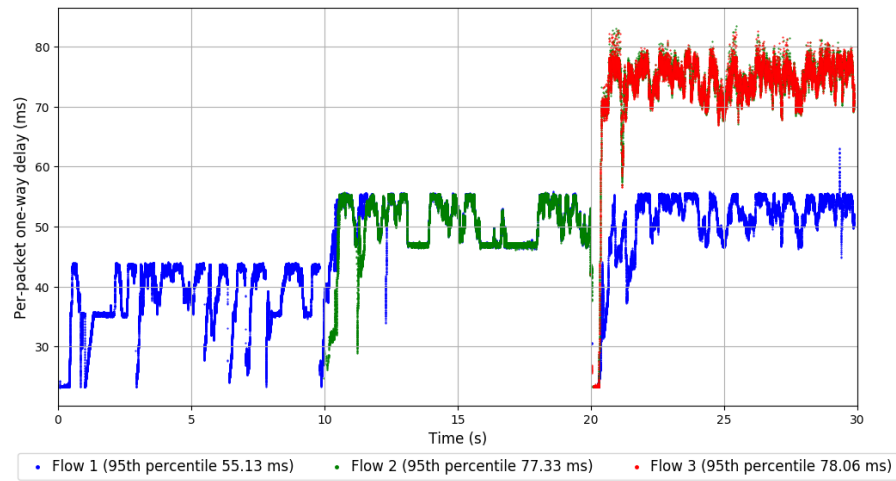
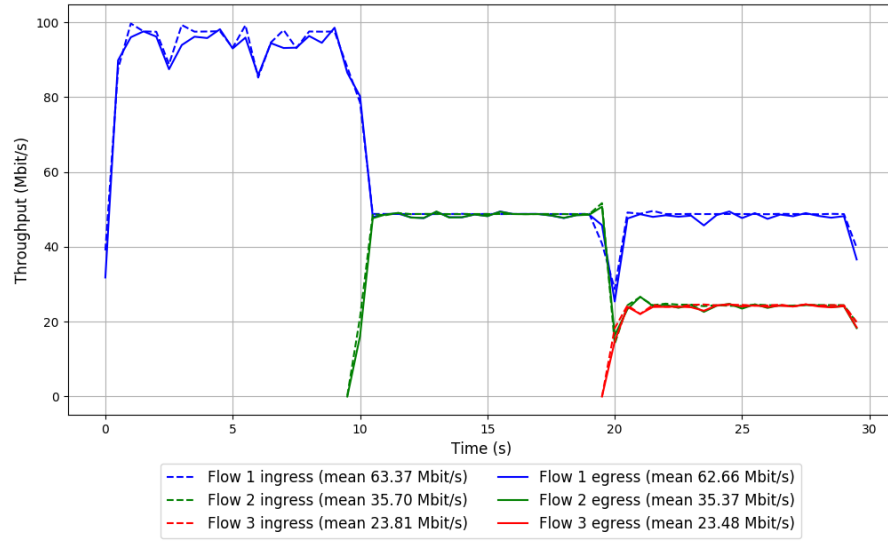


Run 4: Statistics of TCP BBR

Start at: 2017-12-11 21:01:28
End at: 2017-12-11 21:01:58
Local clock offset: -0.927 ms
Remote clock offset: -1.287 ms

Below is generated by plot.py at 2017-12-12 03:20:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 94.03 Mbit/s
95th percentile per-packet one-way delay: 76.355 ms
Loss rate: 1.35%
-- Flow 1:
Average throughput: 62.66 Mbit/s
95th percentile per-packet one-way delay: 55.128 ms
Loss rate: 1.30%
-- Flow 2:
Average throughput: 35.37 Mbit/s
95th percentile per-packet one-way delay: 77.328 ms
Loss rate: 1.21%
-- Flow 3:
Average throughput: 23.48 Mbit/s
95th percentile per-packet one-way delay: 78.060 ms
Loss rate: 2.09%

Run 4: Report of TCP BBR — Data Link

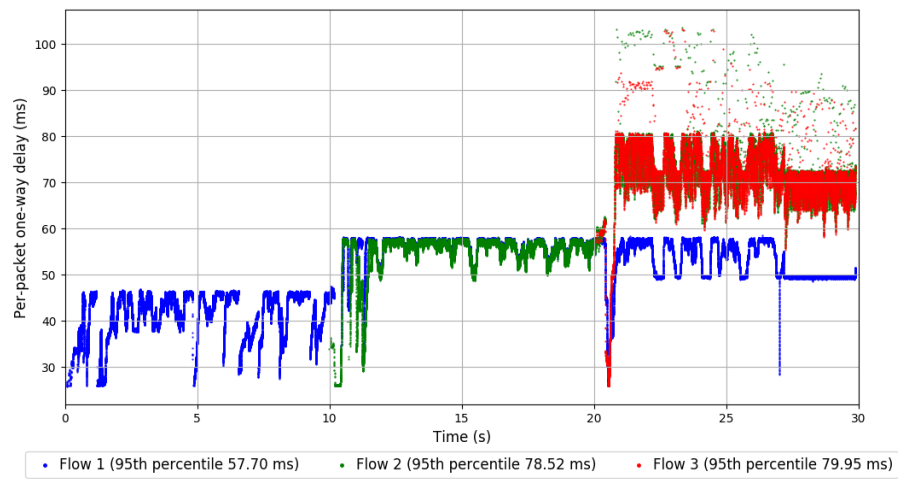
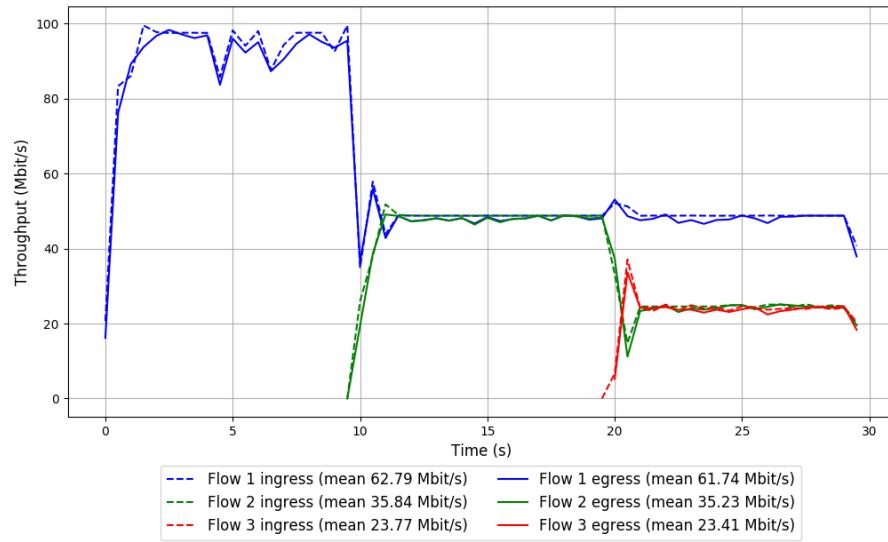


Run 5: Statistics of TCP BBR

Start at: 2017-12-11 21:21:30
End at: 2017-12-11 21:22:00
Local clock offset: -0.509 ms
Remote clock offset: -2.749 ms

Below is generated by plot.py at 2017-12-12 03:20:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 92.96 Mbit/s
95th percentile per-packet one-way delay: 74.946 ms
Loss rate: 1.99%
-- Flow 1:
Average throughput: 61.74 Mbit/s
95th percentile per-packet one-way delay: 57.701 ms
Loss rate: 1.89%
-- Flow 2:
Average throughput: 35.23 Mbit/s
95th percentile per-packet one-way delay: 78.521 ms
Loss rate: 2.10%
-- Flow 3:
Average throughput: 23.41 Mbit/s
95th percentile per-packet one-way delay: 79.952 ms
Loss rate: 2.45%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2017-12-11 21:42:02

End at: 2017-12-11 21:42:32

Local clock offset: -0.213 ms

Remote clock offset: 0.839 ms

Below is generated by plot.py at 2017-12-12 03:20:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.89 Mbit/s

95th percentile per-packet one-way delay: 74.592 ms

Loss rate: 1.90%

-- Flow 1:

Average throughput: 61.54 Mbit/s

95th percentile per-packet one-way delay: 54.914 ms

Loss rate: 1.78%

-- Flow 2:

Average throughput: 35.75 Mbit/s

95th percentile per-packet one-way delay: 76.707 ms

Loss rate: 2.00%

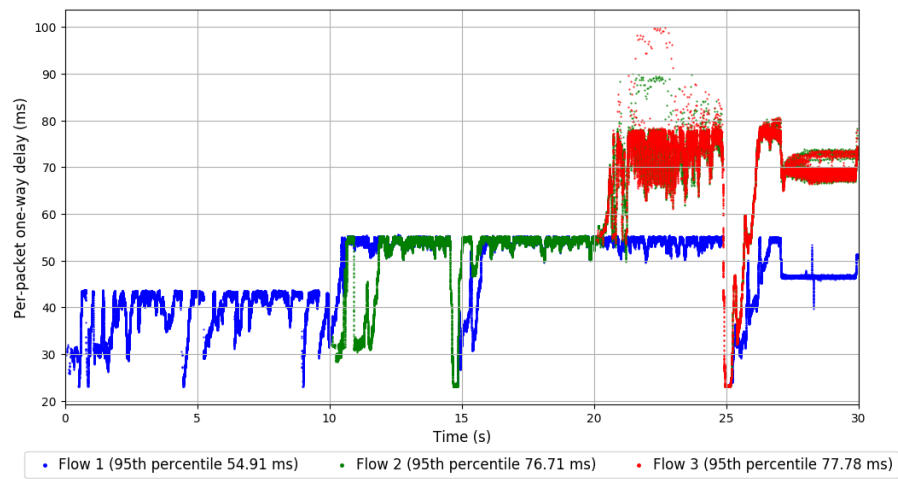
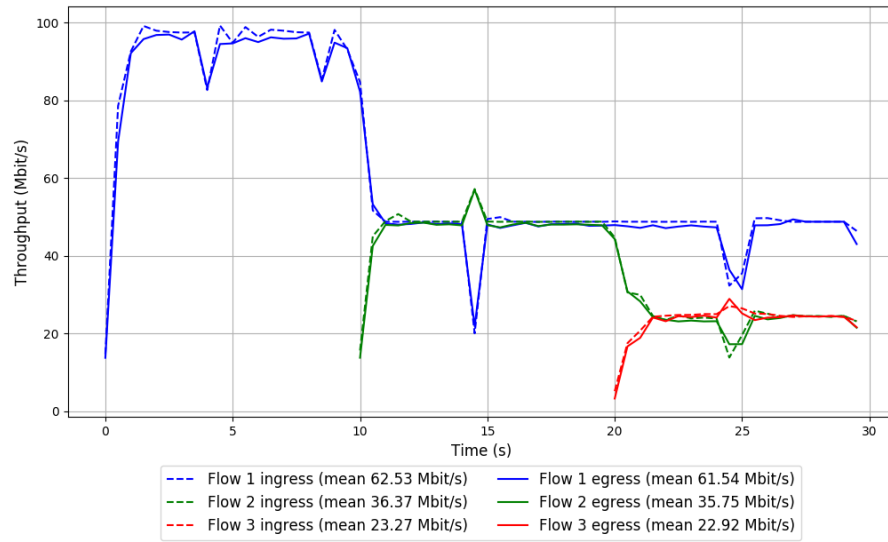
-- Flow 3:

Average throughput: 22.92 Mbit/s

95th percentile per-packet one-way delay: 77.784 ms

Loss rate: 2.59%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2017-12-11 22:02:38

End at: 2017-12-11 22:03:08

Local clock offset: 0.124 ms

Remote clock offset: 1.113 ms

Below is generated by plot.py at 2017-12-12 03:20:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.16 Mbit/s

95th percentile per-packet one-way delay: 65.016 ms

Loss rate: 1.42%

-- Flow 1:

Average throughput: 54.55 Mbit/s

95th percentile per-packet one-way delay: 62.611 ms

Loss rate: 1.35%

-- Flow 2:

Average throughput: 38.73 Mbit/s

95th percentile per-packet one-way delay: 65.278 ms

Loss rate: 1.35%

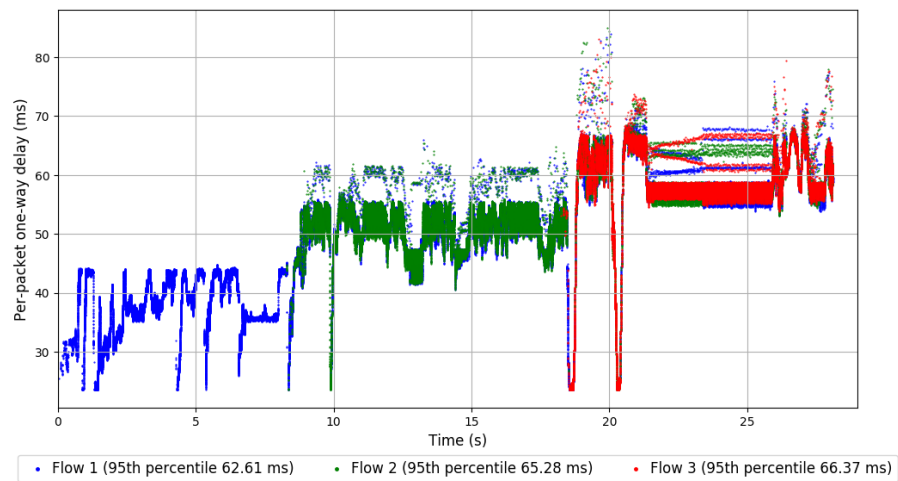
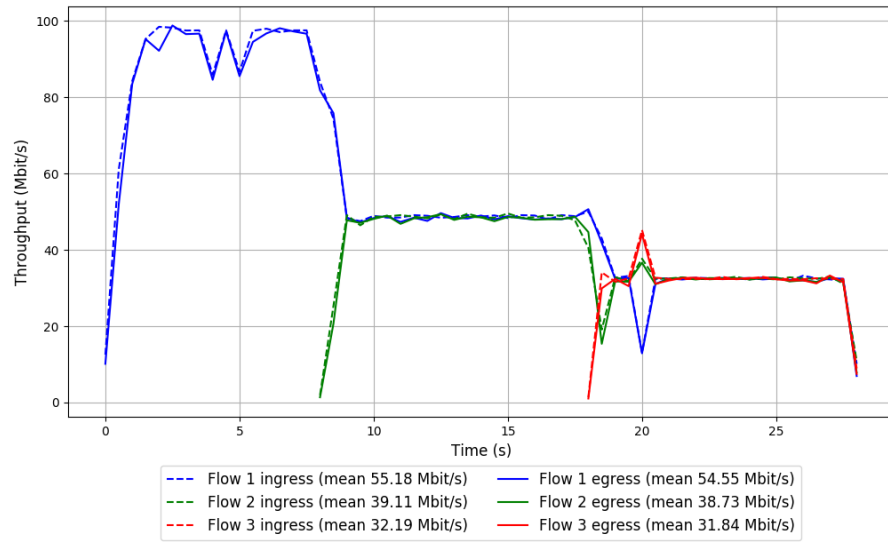
-- Flow 3:

Average throughput: 31.84 Mbit/s

95th percentile per-packet one-way delay: 66.373 ms

Loss rate: 1.94%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

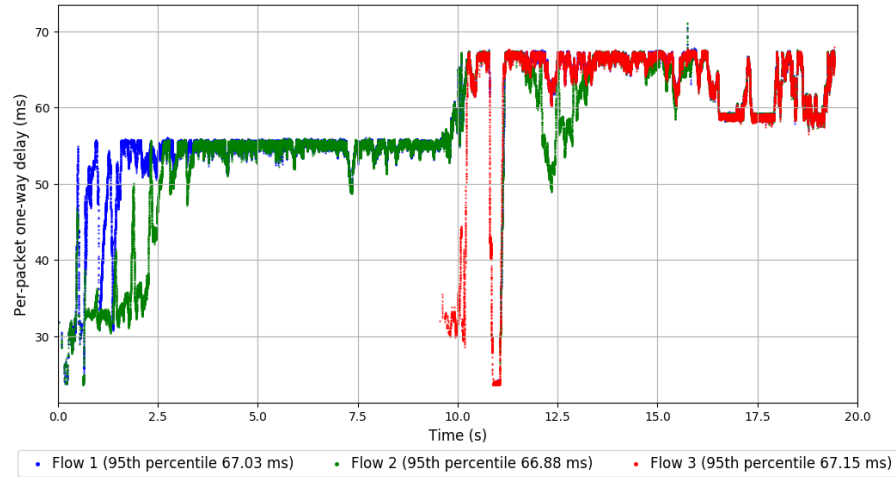
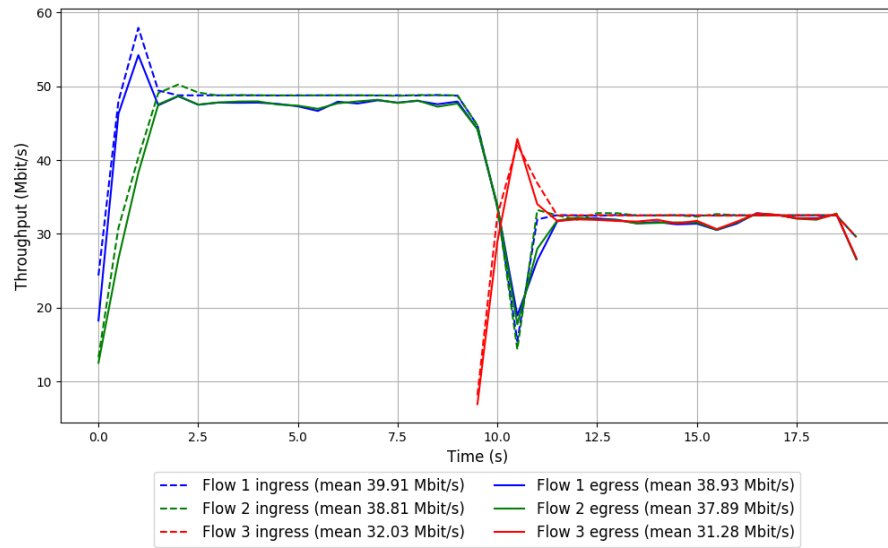
Start at: 2017-12-11 22:23:40

End at: 2017-12-11 22:24:10

Local clock offset: -0.343 ms

Remote clock offset: 0.963 ms

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2017-12-11 22:44:48

End at: 2017-12-11 22:45:18

Local clock offset: -0.766 ms

Remote clock offset: 1.56 ms

Below is generated by plot.py at 2017-12-12 03:21:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.77 Mbit/s

95th percentile per-packet one-way delay: 66.734 ms

Loss rate: 2.09%

-- Flow 1:

Average throughput: 56.19 Mbit/s

95th percentile per-packet one-way delay: 65.880 ms

Loss rate: 2.02%

-- Flow 2:

Average throughput: 39.17 Mbit/s

95th percentile per-packet one-way delay: 66.702 ms

Loss rate: 2.04%

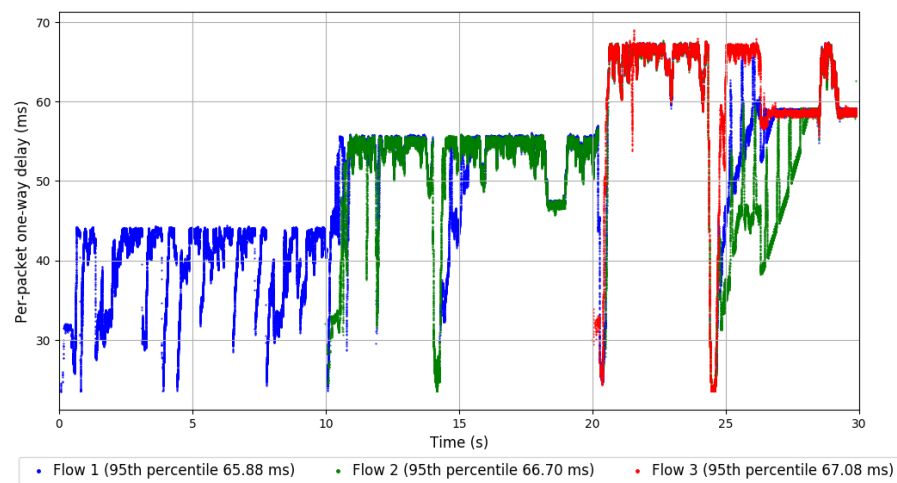
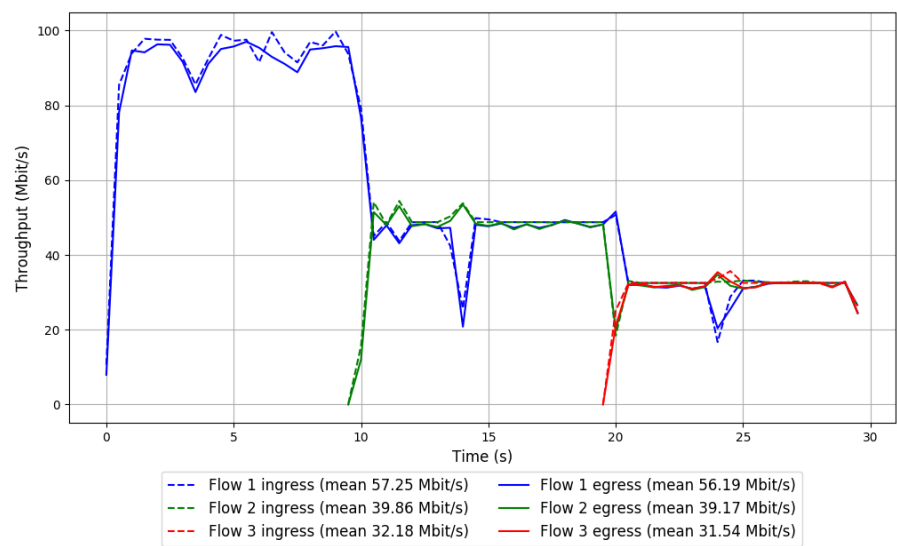
-- Flow 3:

Average throughput: 31.54 Mbit/s

95th percentile per-packet one-way delay: 67.076 ms

Loss rate: 2.56%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2017-12-11 23:05:56

End at: 2017-12-11 23:06:26

Local clock offset: -0.655 ms

Remote clock offset: 2.093 ms

Below is generated by plot.py at 2017-12-12 03:22:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.66 Mbit/s

95th percentile per-packet one-way delay: 63.520 ms

Loss rate: 0.86%

-- Flow 1:

Average throughput: 57.57 Mbit/s

95th percentile per-packet one-way delay: 59.607 ms

Loss rate: 0.80%

-- Flow 2:

Average throughput: 39.70 Mbit/s

95th percentile per-packet one-way delay: 64.080 ms

Loss rate: 0.84%

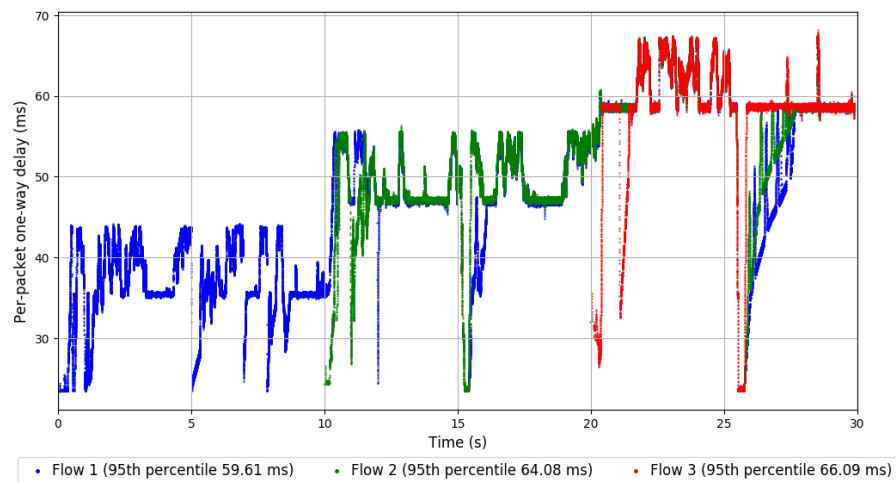
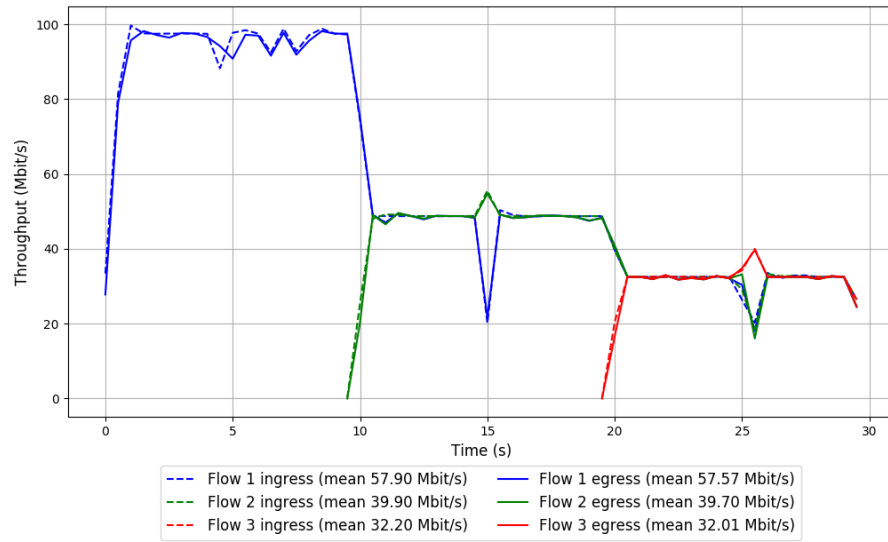
-- Flow 3:

Average throughput: 32.01 Mbit/s

95th percentile per-packet one-way delay: 66.092 ms

Loss rate: 1.22%

Run 10: Report of TCP BBR — Data Link

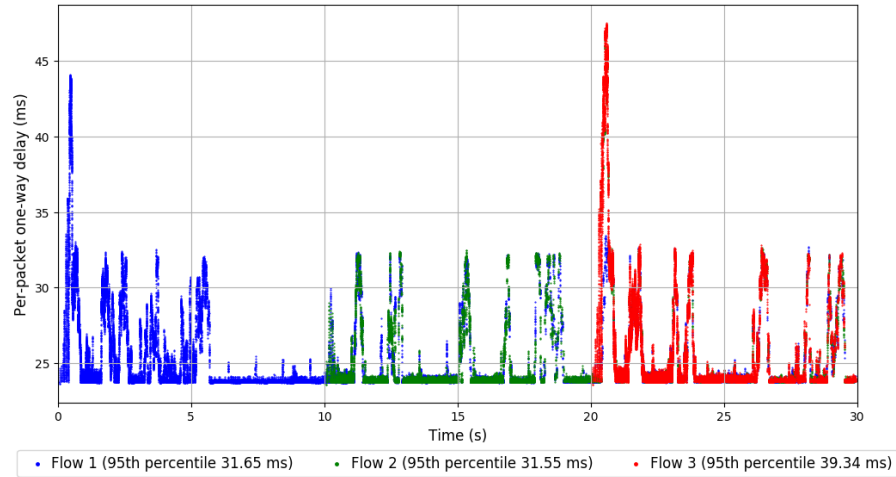
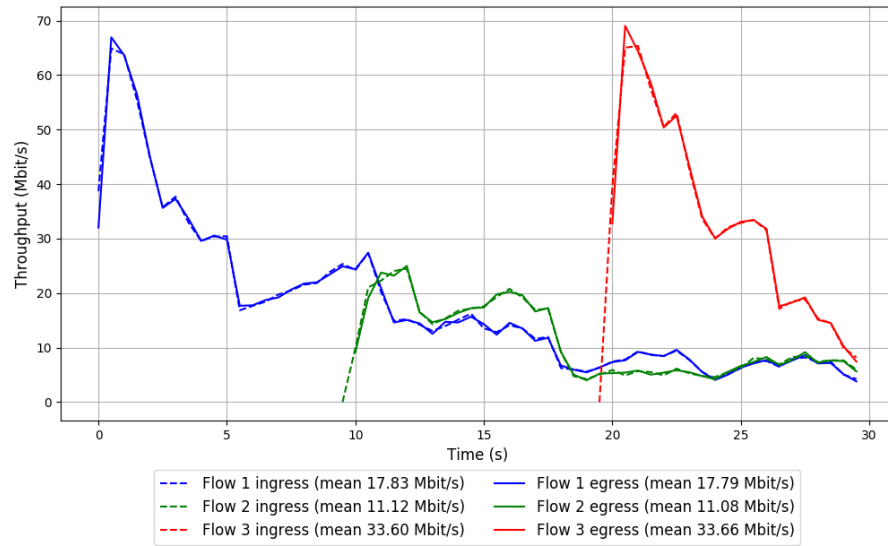


Run 1: Statistics of TCP Cubic

Start at: 2017-12-11 20:05:01
End at: 2017-12-11 20:05:31
Local clock offset: -1.018 ms
Remote clock offset: -3.393 ms

Below is generated by plot.py at 2017-12-12 03:22:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 36.33 Mbit/s
95th percentile per-packet one-way delay: 31.970 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 17.79 Mbit/s
95th percentile per-packet one-way delay: 31.648 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 11.08 Mbit/s
95th percentile per-packet one-way delay: 31.555 ms
Loss rate: 0.58%
-- Flow 3:
Average throughput: 33.66 Mbit/s
95th percentile per-packet one-way delay: 39.336 ms
Loss rate: 0.33%

Run 1: Report of TCP Cubic — Data Link

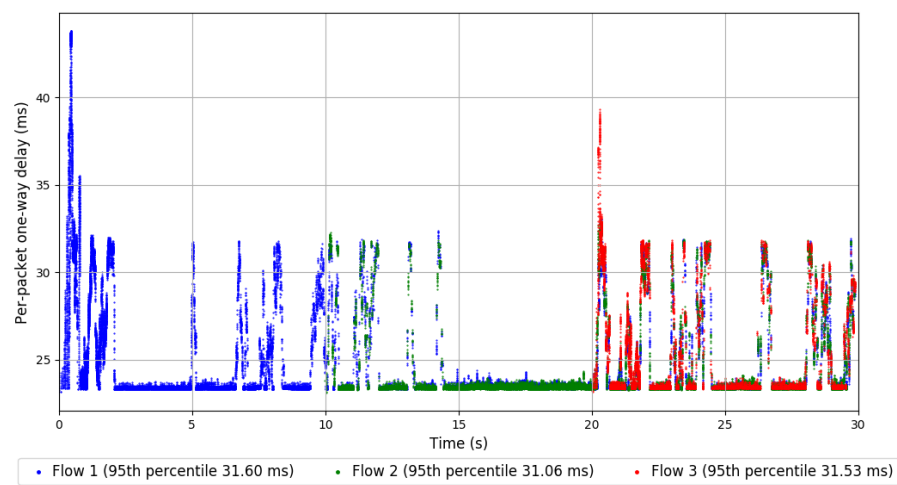
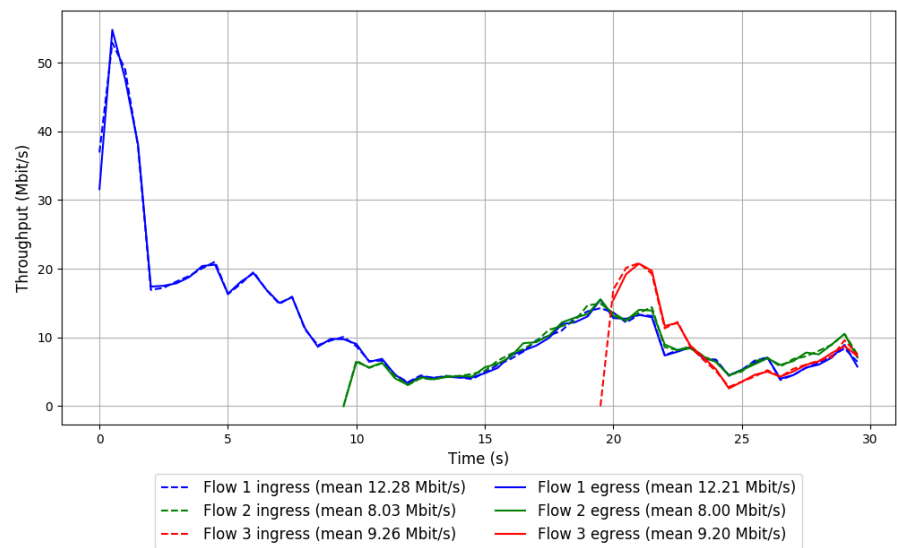


Run 2: Statistics of TCP Cubic

Start at: 2017-12-11 20:24:48
End at: 2017-12-11 20:25:18
Local clock offset: -1.362 ms
Remote clock offset: -2.527 ms

Below is generated by plot.py at 2017-12-12 03:22:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 20.58 Mbit/s
95th percentile per-packet one-way delay: 31.497 ms
Loss rate: 0.81%
-- Flow 1:
Average throughput: 12.21 Mbit/s
95th percentile per-packet one-way delay: 31.604 ms
Loss rate: 0.76%
-- Flow 2:
Average throughput: 8.00 Mbit/s
95th percentile per-packet one-way delay: 31.063 ms
Loss rate: 0.67%
-- Flow 3:
Average throughput: 9.20 Mbit/s
95th percentile per-packet one-way delay: 31.534 ms
Loss rate: 1.24%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2017-12-11 20:44:45

End at: 2017-12-11 20:45:15

Local clock offset: -1.177 ms

Remote clock offset: -2.67 ms

Below is generated by plot.py at 2017-12-12 03:22:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 19.44 Mbit/s

95th percentile per-packet one-way delay: 31.923 ms

Loss rate: 0.65%

-- Flow 1:

Average throughput: 17.32 Mbit/s

95th percentile per-packet one-way delay: 5092.088 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 22.03 Mbit/s

95th percentile per-packet one-way delay: 31.921 ms

Loss rate: 0.58%

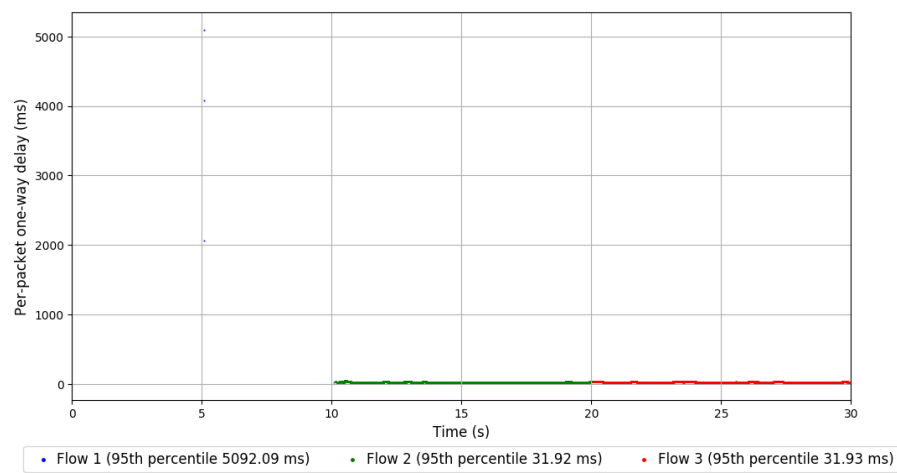
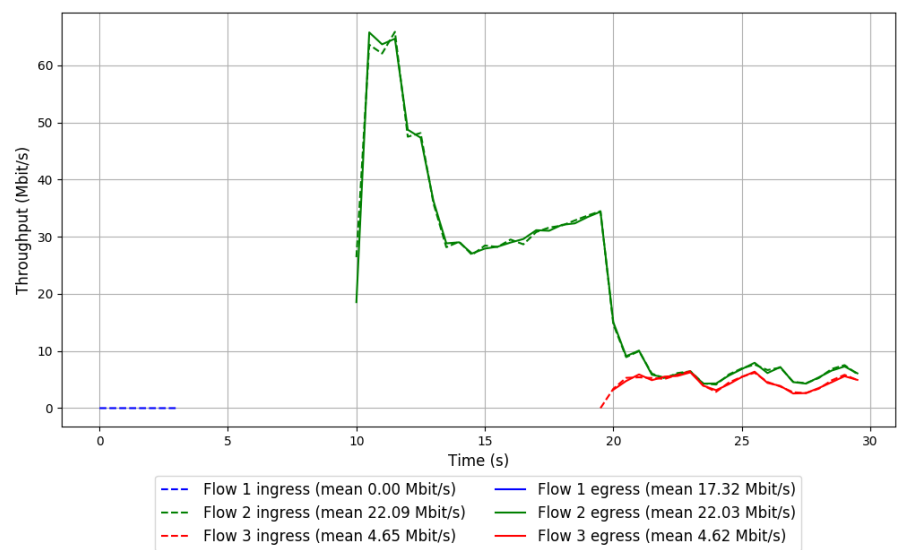
-- Flow 3:

Average throughput: 4.62 Mbit/s

95th percentile per-packet one-way delay: 31.930 ms

Loss rate: 1.30%

Run 3: Report of TCP Cubic — Data Link

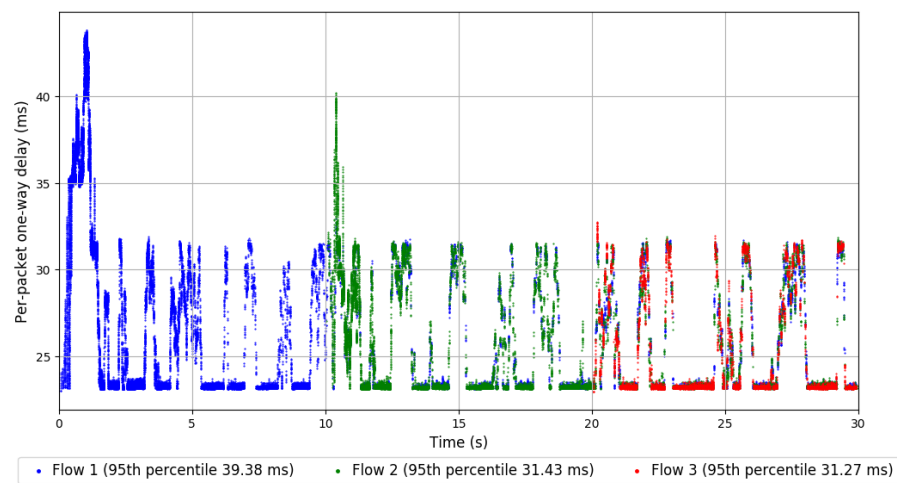
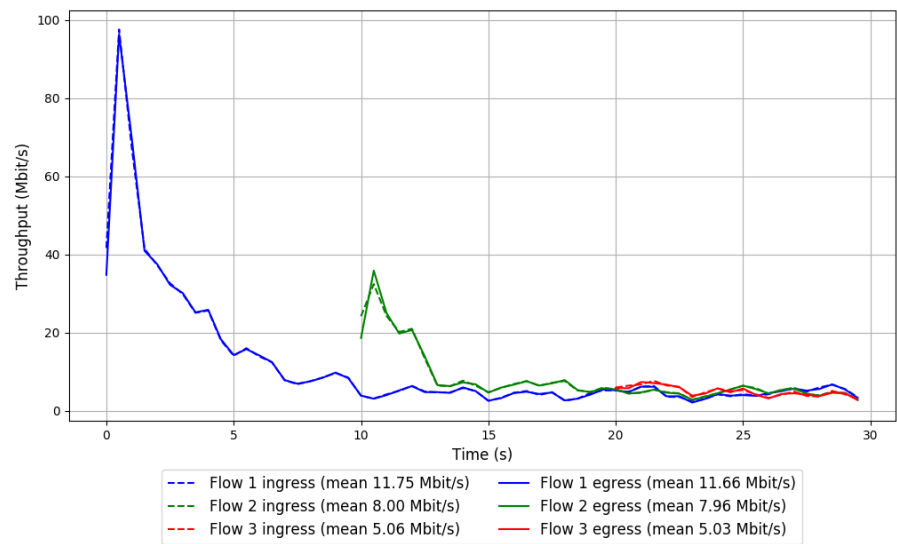


Run 4: Statistics of TCP Cubic

Start at: 2017-12-11 21:04:25
End at: 2017-12-11 21:04:55
Local clock offset: -0.984 ms
Remote clock offset: -1.081 ms

Below is generated by plot.py at 2017-12-12 03:22:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 18.61 Mbit/s
95th percentile per-packet one-way delay: 37.729 ms
Loss rate: 0.88%
-- Flow 1:
Average throughput: 11.66 Mbit/s
95th percentile per-packet one-way delay: 39.378 ms
Loss rate: 0.90%
-- Flow 2:
Average throughput: 7.96 Mbit/s
95th percentile per-packet one-way delay: 31.426 ms
Loss rate: 0.78%
-- Flow 3:
Average throughput: 5.03 Mbit/s
95th percentile per-packet one-way delay: 31.268 ms
Loss rate: 1.07%

Run 4: Report of TCP Cubic — Data Link

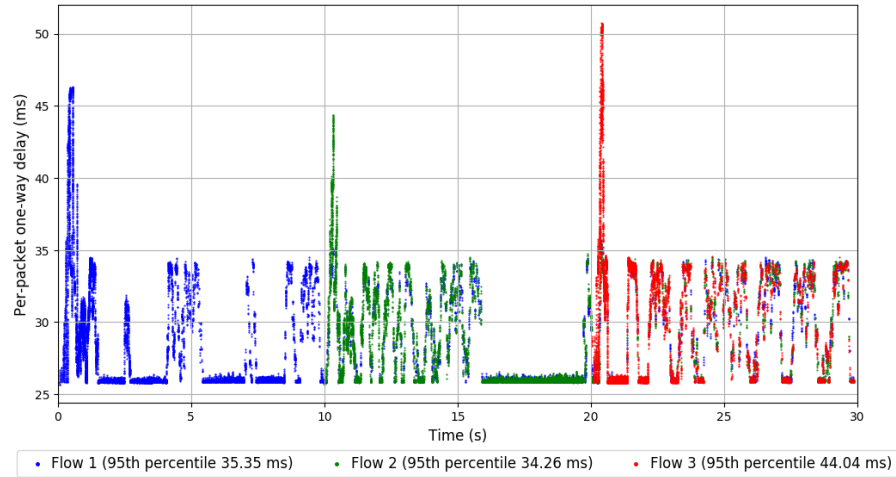
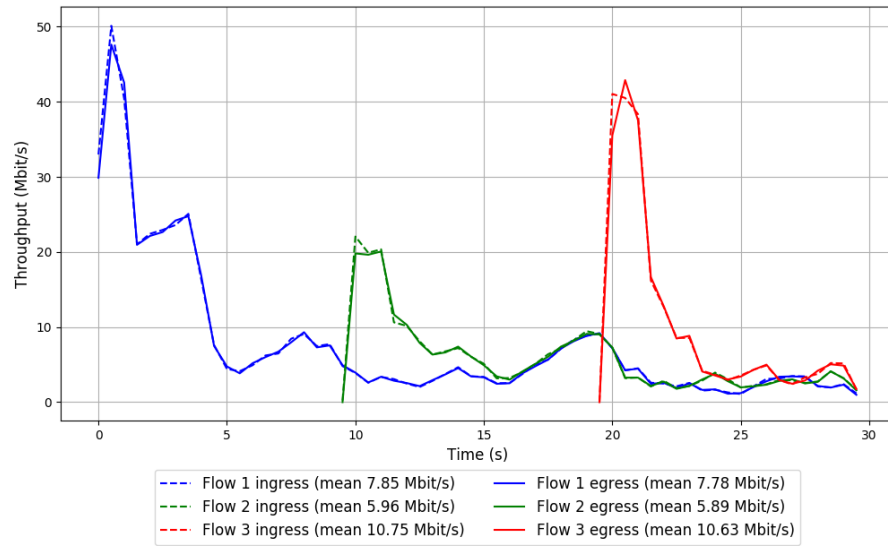


Run 5: Statistics of TCP Cubic

Start at: 2017-12-11 21:24:37
End at: 2017-12-11 21:25:07
Local clock offset: -0.461 ms
Remote clock offset: -2.625 ms

Below is generated by plot.py at 2017-12-12 03:22:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 15.22 Mbit/s
95th percentile per-packet one-way delay: 36.518 ms
Loss rate: 1.27%
-- Flow 1:
Average throughput: 7.78 Mbit/s
95th percentile per-packet one-way delay: 35.354 ms
Loss rate: 1.02%
-- Flow 2:
Average throughput: 5.89 Mbit/s
95th percentile per-packet one-way delay: 34.261 ms
Loss rate: 1.35%
-- Flow 3:
Average throughput: 10.63 Mbit/s
95th percentile per-packet one-way delay: 44.044 ms
Loss rate: 1.72%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

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

End at: 2017-12-11 21:45:46

Local clock offset: -0.075 ms

Remote clock offset: 0.995 ms

Below is generated by plot.py at 2017-12-12 03:22:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 28.66 Mbit/s

95th percentile per-packet one-way delay: 39.840 ms

Loss rate: 0.42%

-- Flow 1:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 35.561 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 30.89 Mbit/s

95th percentile per-packet one-way delay: 40.253 ms

Loss rate: 0.31%

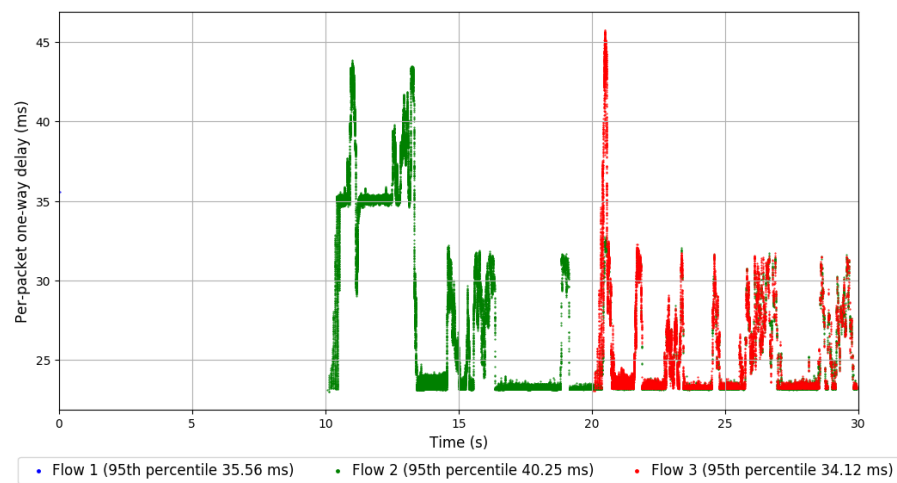
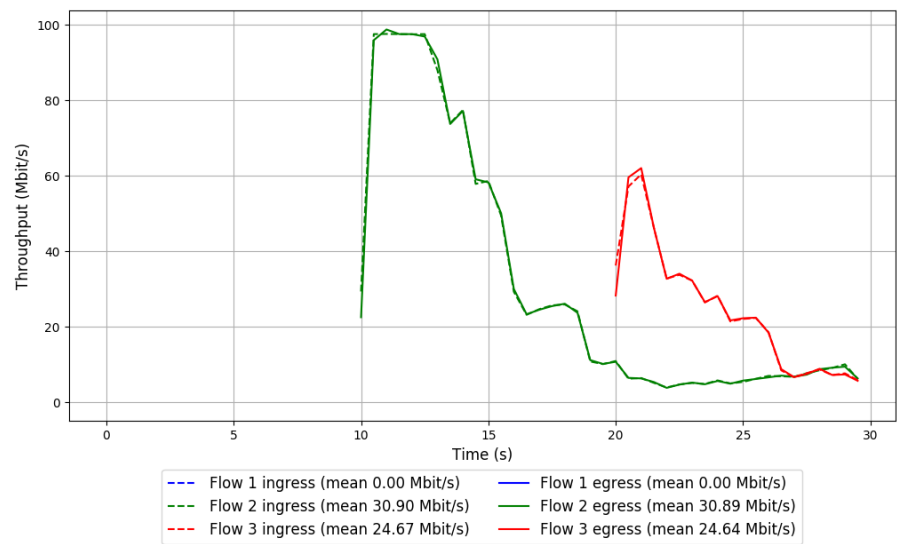
-- Flow 3:

Average throughput: 24.64 Mbit/s

95th percentile per-packet one-way delay: 34.118 ms

Loss rate: 0.69%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

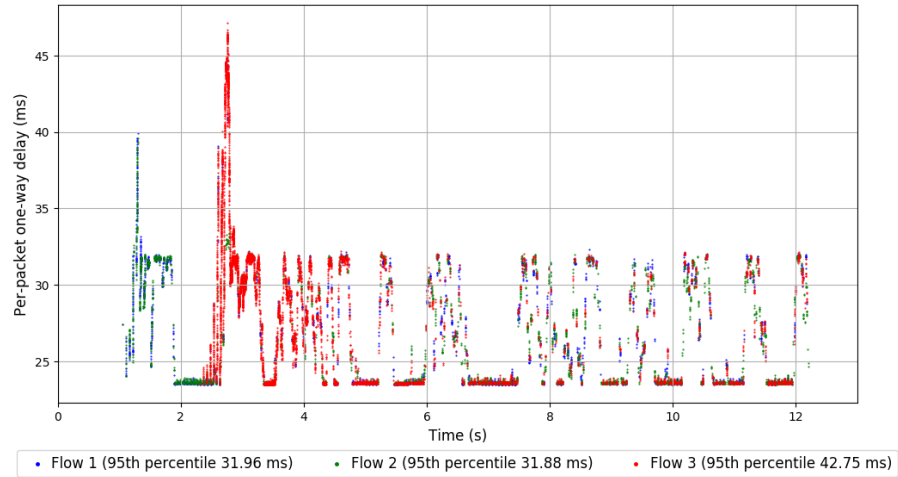
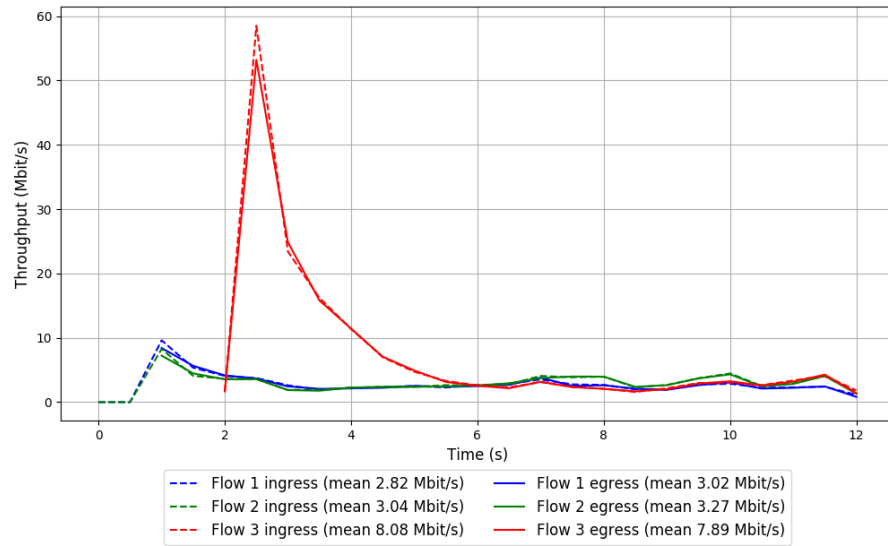
Start at: 2017-12-11 22:05:48

End at: 2017-12-11 22:06:18

Local clock offset: 0.003 ms

Remote clock offset: 1.041 ms

Run 7: Report of TCP Cubic — Data Link

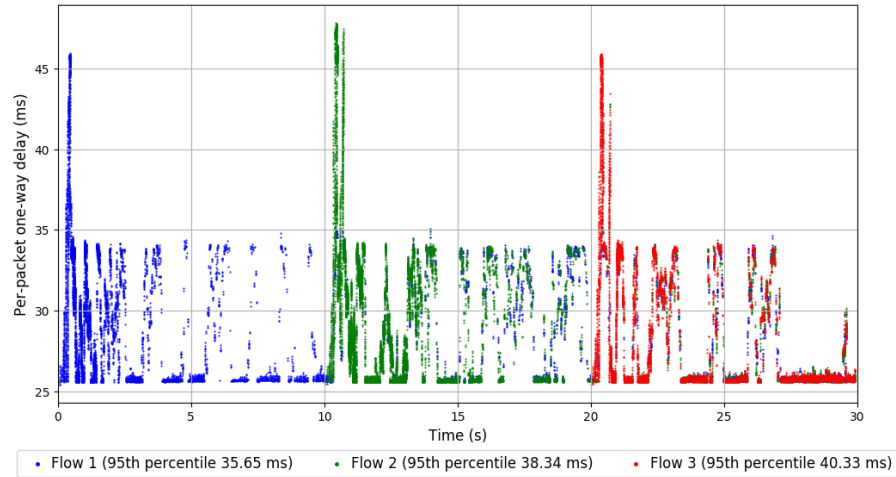
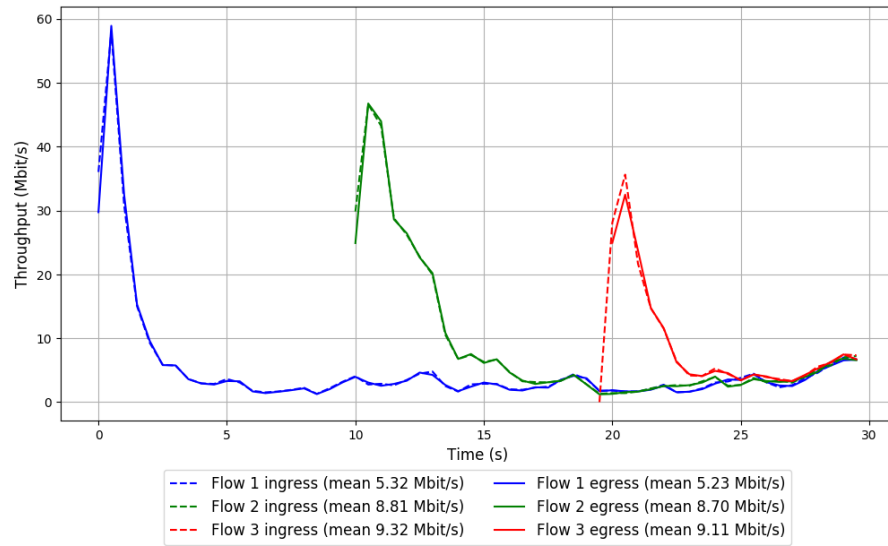


Run 8: Statistics of TCP Cubic

Start at: 2017-12-11 22:27:11
End at: 2017-12-11 22:27:41
Local clock offset: -0.396 ms
Remote clock offset: -0.873 ms

Below is generated by plot.py at 2017-12-12 03:22:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 14.02 Mbit/s
95th percentile per-packet one-way delay: 38.112 ms
Loss rate: 1.92%
-- Flow 1:
Average throughput: 5.23 Mbit/s
95th percentile per-packet one-way delay: 35.649 ms
Loss rate: 1.91%
-- Flow 2:
Average throughput: 8.70 Mbit/s
95th percentile per-packet one-way delay: 38.342 ms
Loss rate: 1.49%
-- Flow 3:
Average throughput: 9.11 Mbit/s
95th percentile per-packet one-way delay: 40.330 ms
Loss rate: 2.78%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2017-12-11 22:48:19

End at: 2017-12-11 22:48:49

Local clock offset: -0.698 ms

Remote clock offset: 1.641 ms

Below is generated by plot.py at 2017-12-12 03:22:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 9.57 Mbit/s

95th percentile per-packet one-way delay: 32.193 ms

Loss rate: 1.85%

-- Flow 1:

Average throughput: 4.23 Mbit/s

95th percentile per-packet one-way delay: 33.069 ms

Loss rate: 2.00%

-- Flow 2:

Average throughput: 5.33 Mbit/s

95th percentile per-packet one-way delay: 32.126 ms

Loss rate: 1.60%

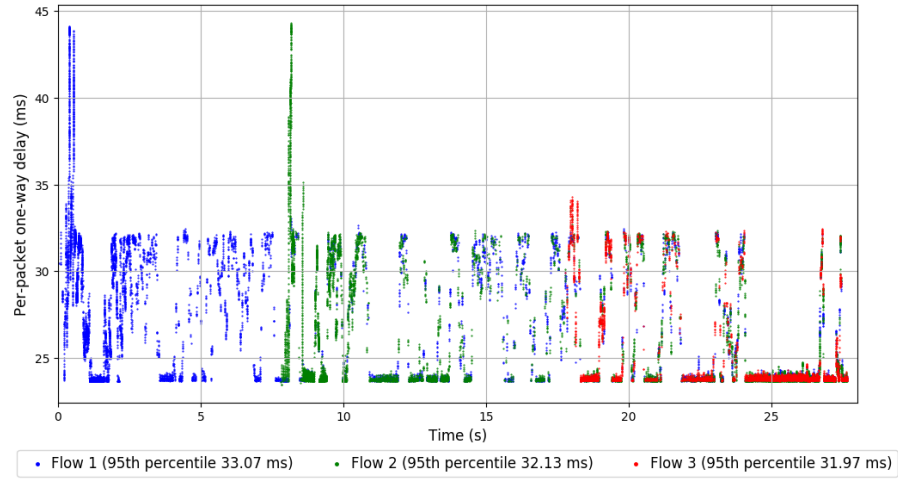
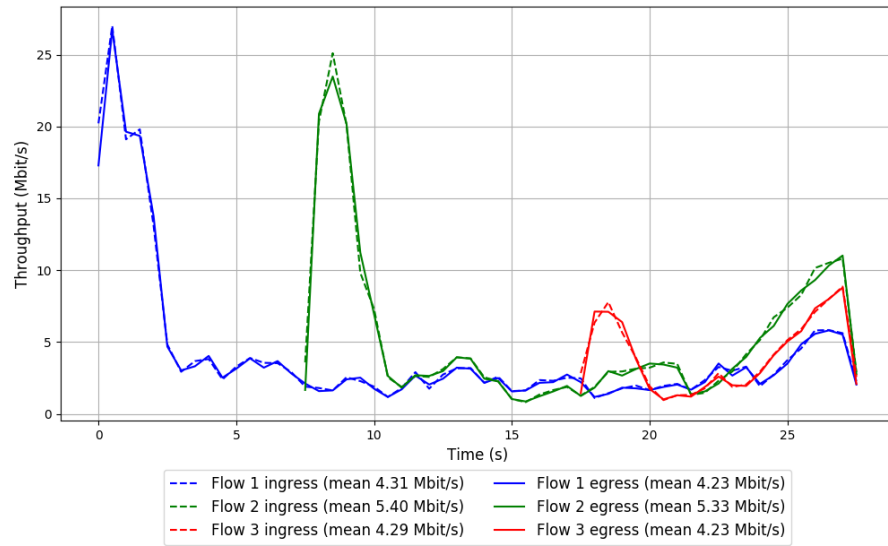
-- Flow 3:

Average throughput: 4.23 Mbit/s

95th percentile per-packet one-way delay: 31.966 ms

Loss rate: 2.06%

Run 9: Report of TCP Cubic — Data Link

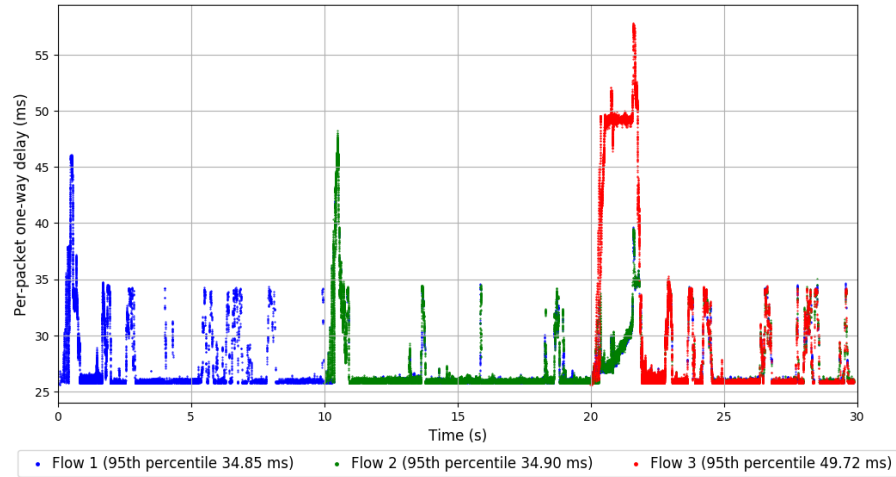
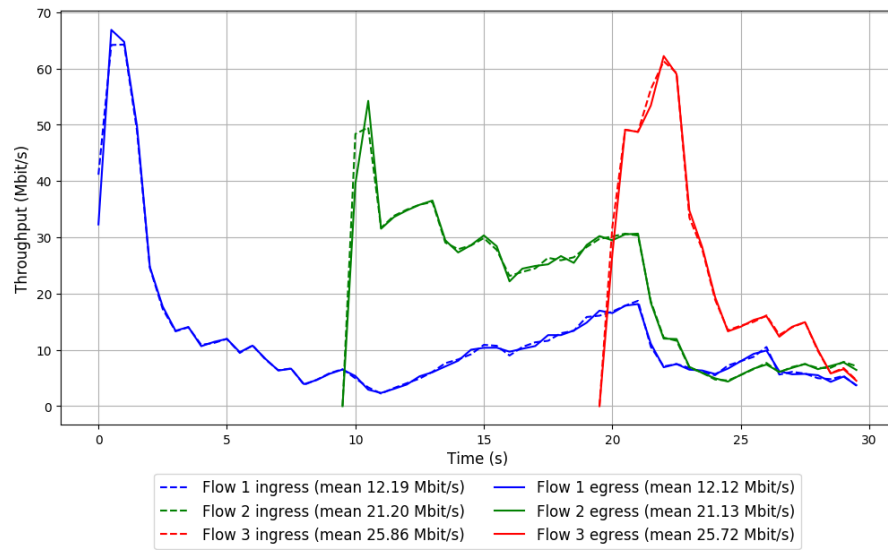


Run 10: Statistics of TCP Cubic

Start at: 2017-12-11 23:09:01
End at: 2017-12-11 23:09:31
Local clock offset: -0.522 ms
Remote clock offset: -0.021 ms

Below is generated by plot.py at 2017-12-12 03:22:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 34.71 Mbit/s
95th percentile per-packet one-way delay: 49.058 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 12.12 Mbit/s
95th percentile per-packet one-way delay: 34.851 ms
Loss rate: 0.75%
-- Flow 2:
Average throughput: 21.13 Mbit/s
95th percentile per-packet one-way delay: 34.898 ms
Loss rate: 0.61%
-- Flow 3:
Average throughput: 25.72 Mbit/s
95th percentile per-packet one-way delay: 49.720 ms
Loss rate: 1.06%

Run 10: Report of TCP Cubic — Data Link



Run 1: Statistics of LEDBAT

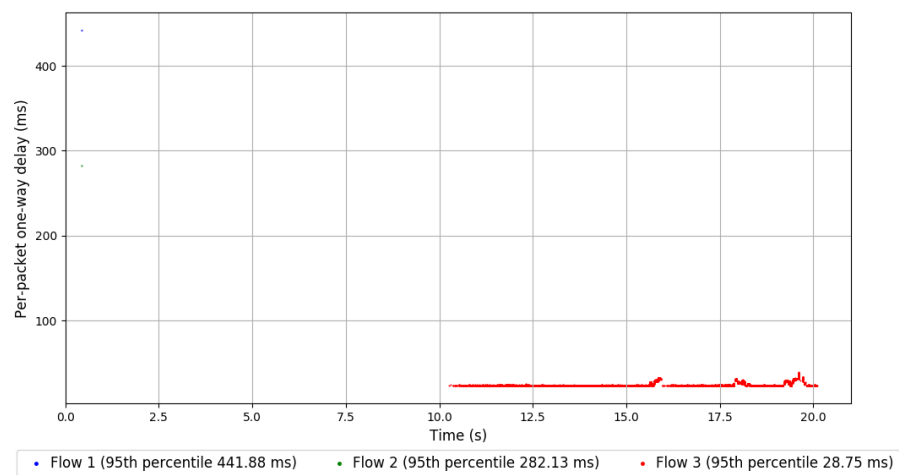
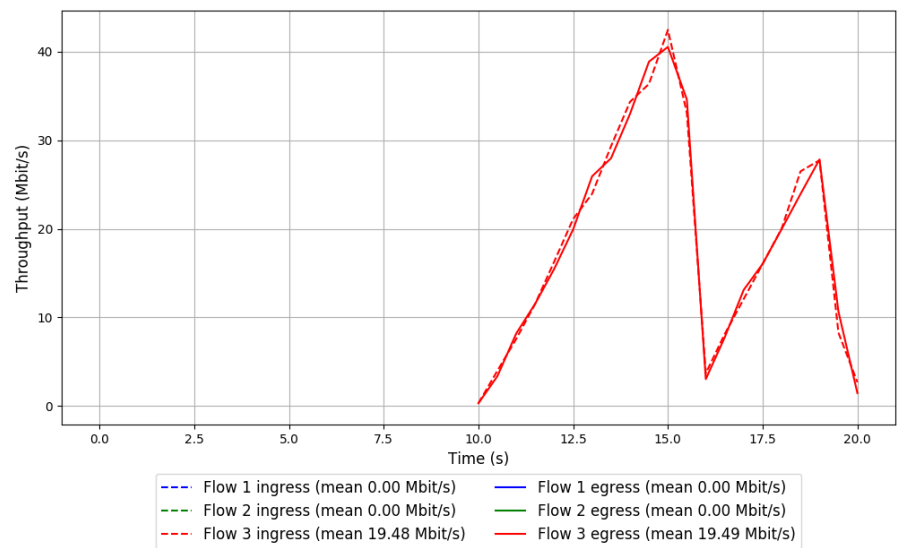
Start at: 2017-12-11 20:12:10

End at: 2017-12-11 20:12:40

Local clock offset: -1.276 ms

Remote clock offset: -2.683 ms

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

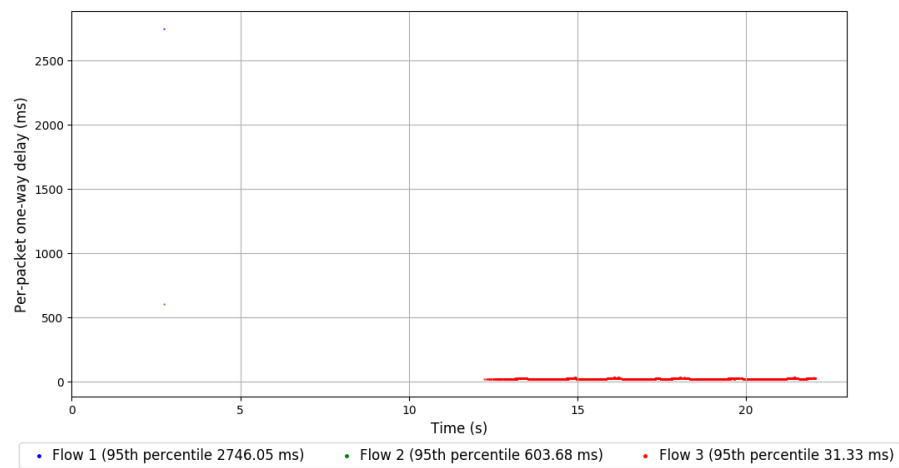
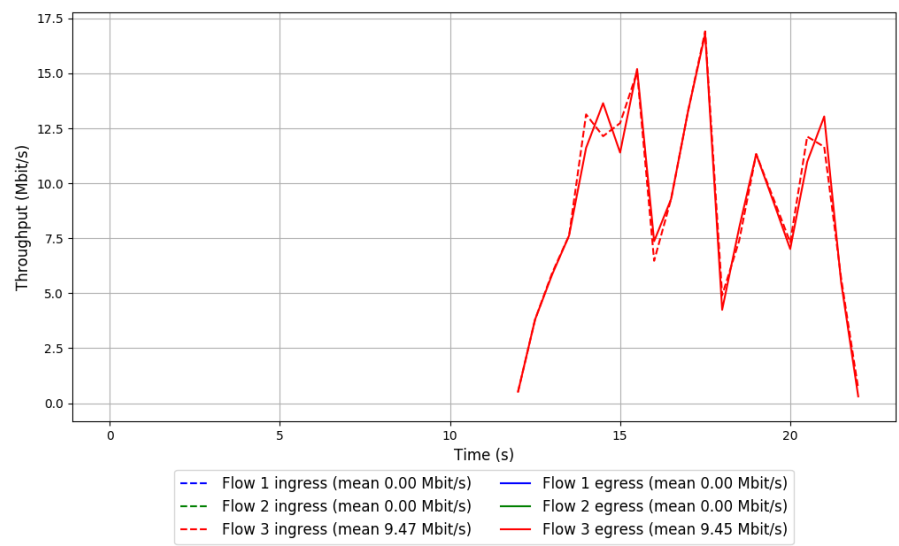
Start at: 2017-12-11 20:32:00

End at: 2017-12-11 20:32:30

Local clock offset: -1.43 ms

Remote clock offset: -2.409 ms

Run 2: Report of LEDBAT — Data Link

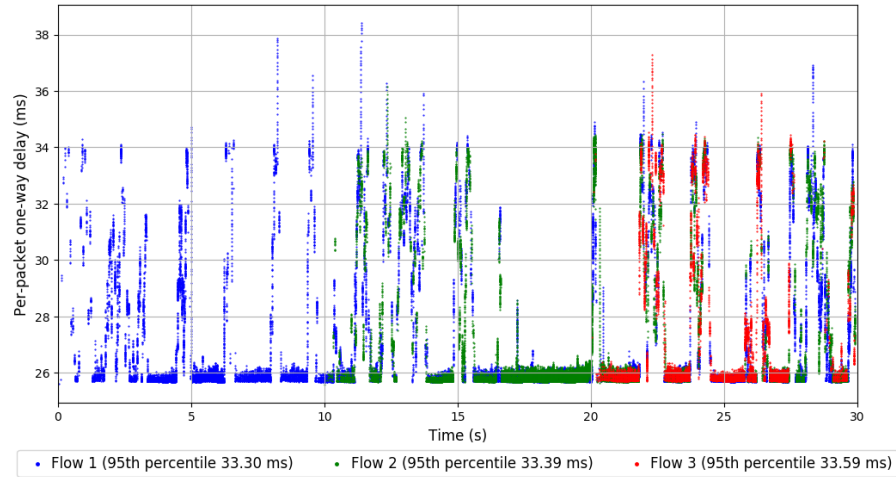
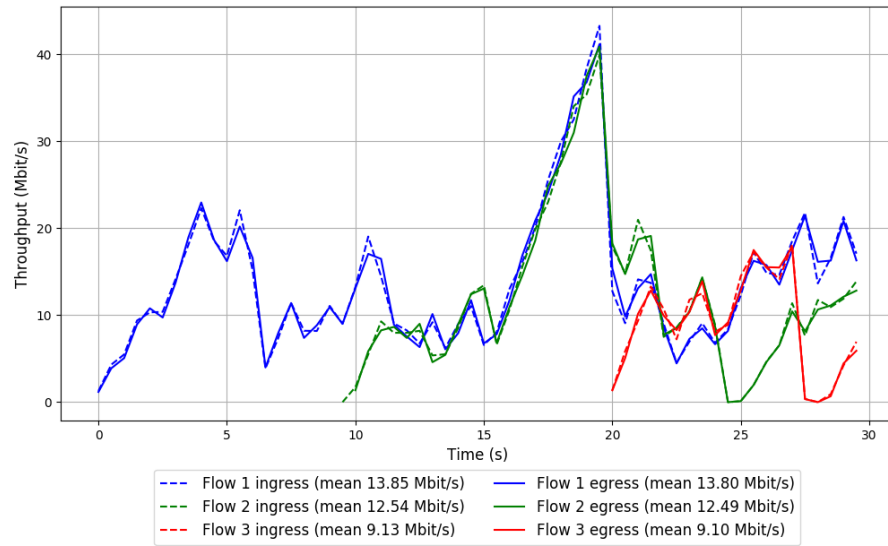


Run 3: Statistics of LEDBAT

Start at: 2017-12-11 20:51:46
End at: 2017-12-11 20:52:16
Local clock offset: -1.169 ms
Remote clock offset: -4.305 ms

Below is generated by plot.py at 2017-12-12 03:22:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 25.11 Mbit/s
95th percentile per-packet one-way delay: 33.388 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 13.80 Mbit/s
95th percentile per-packet one-way delay: 33.298 ms
Loss rate: 0.54%
-- Flow 2:
Average throughput: 12.49 Mbit/s
95th percentile per-packet one-way delay: 33.386 ms
Loss rate: 0.72%
-- Flow 3:
Average throughput: 9.10 Mbit/s
95th percentile per-packet one-way delay: 33.592 ms
Loss rate: 0.91%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

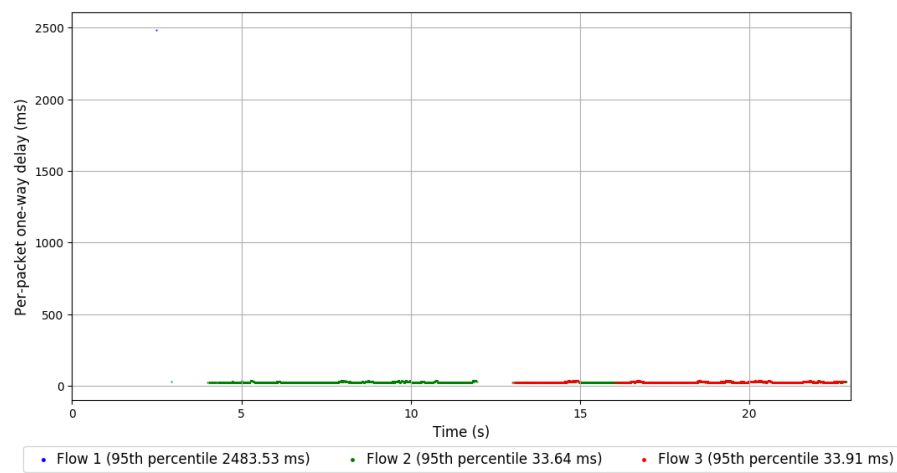
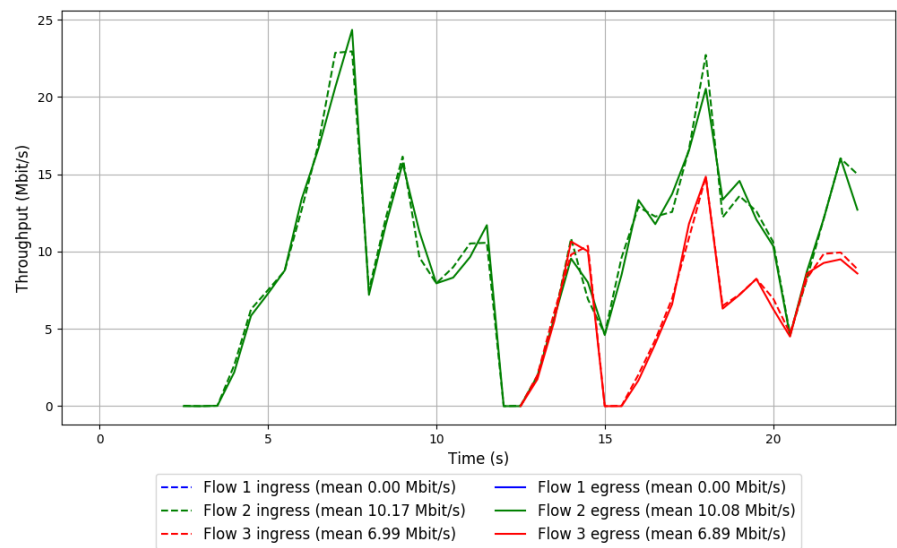
Start at: 2017-12-11 21:11:45

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

Local clock offset: -0.739 ms

Remote clock offset: -3.267 ms

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

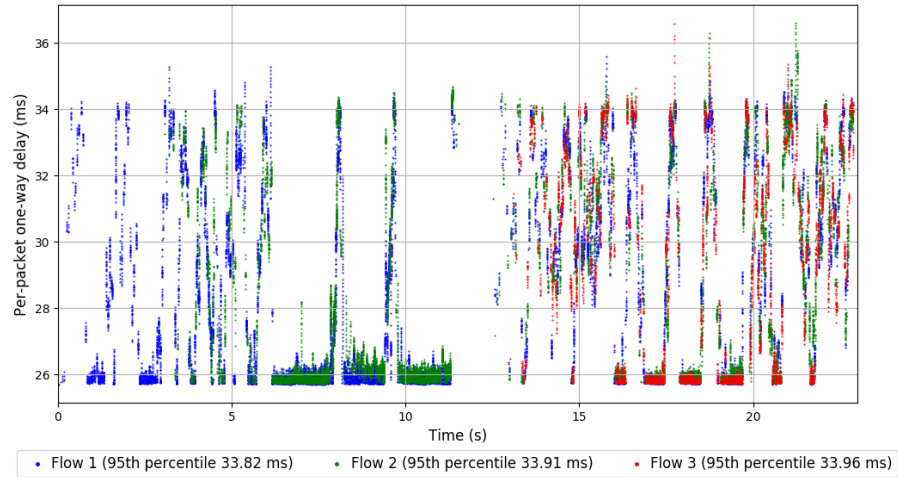
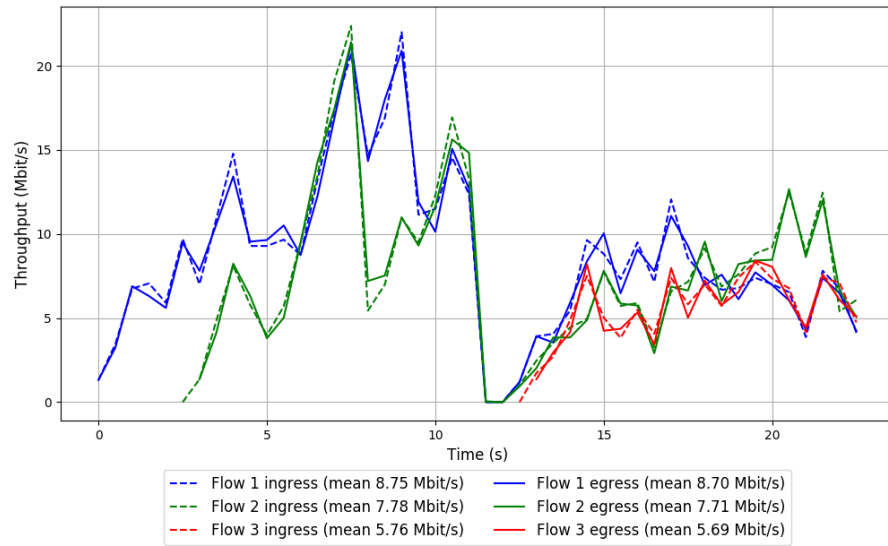
Start at: 2017-12-11 21:32:18

End at: 2017-12-11 21:32:48

Local clock offset: -0.424 ms

Remote clock offset: -2.254 ms

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

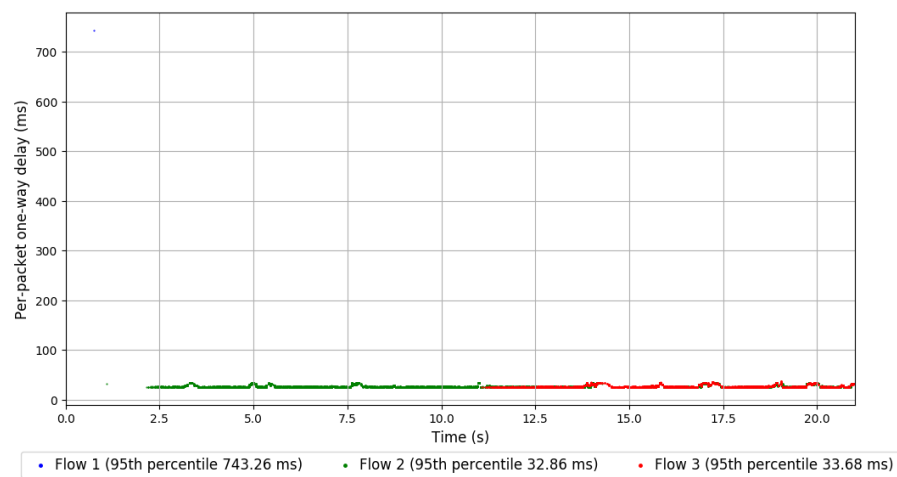
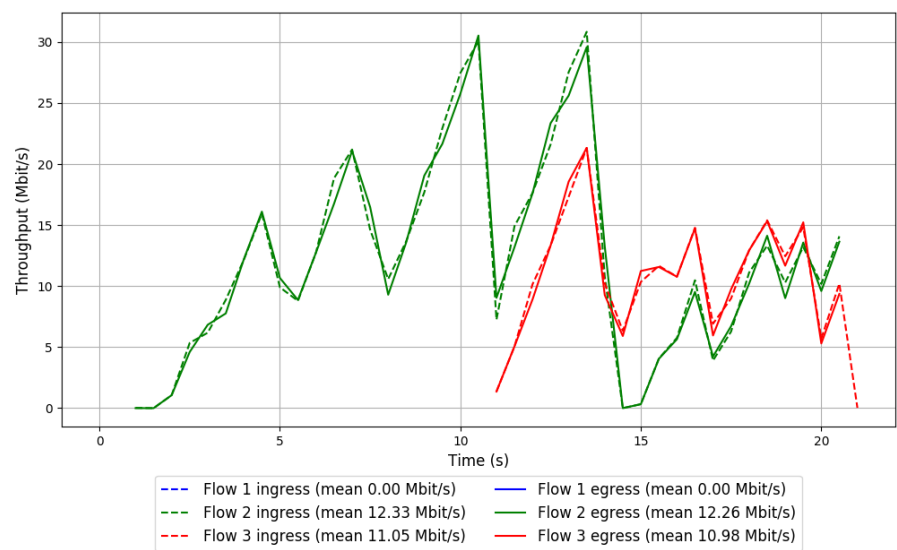
Start at: 2017-12-11 21:52:44

End at: 2017-12-11 21:53:14

Local clock offset: 0.086 ms

Remote clock offset: -1.393 ms

Run 6: Report of LEDBAT — Data Link

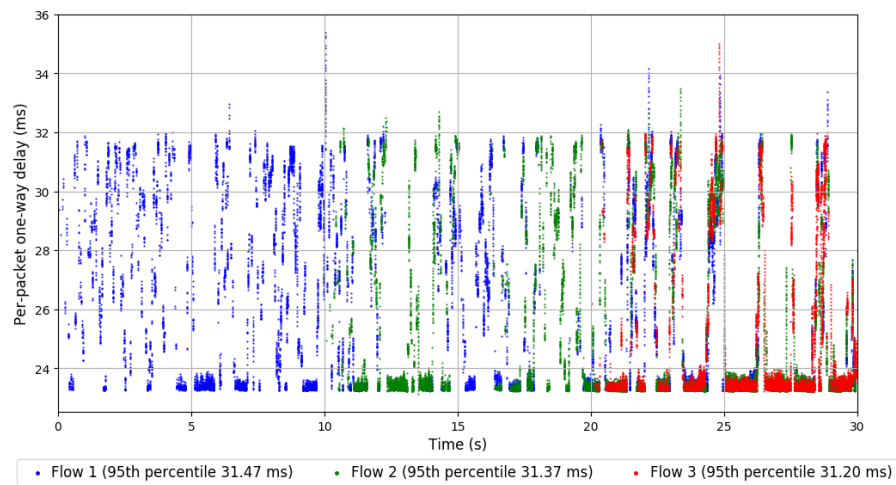
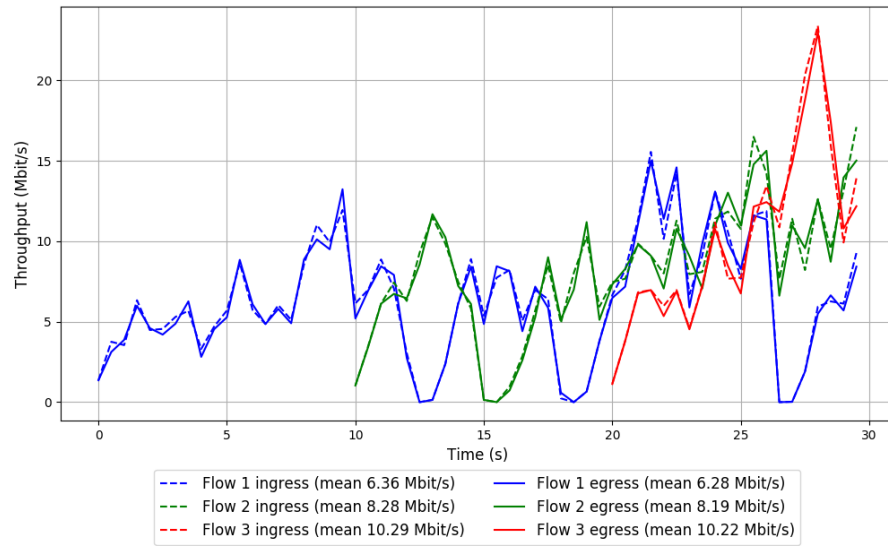


Run 7: Statistics of LEDBAT

Start at: 2017-12-11 22:13:44
End at: 2017-12-11 22:14:14
Local clock offset: 0.051 ms
Remote clock offset: 1.411 ms

Below is generated by plot.py at 2017-12-12 03:22:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 15.08 Mbit/s
95th percentile per-packet one-way delay: 31.397 ms
Loss rate: 1.38%
-- Flow 1:
Average throughput: 6.28 Mbit/s
95th percentile per-packet one-way delay: 31.467 ms
Loss rate: 1.50%
-- Flow 2:
Average throughput: 8.19 Mbit/s
95th percentile per-packet one-way delay: 31.367 ms
Loss rate: 1.32%
-- Flow 3:
Average throughput: 10.22 Mbit/s
95th percentile per-packet one-way delay: 31.202 ms
Loss rate: 1.25%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2017-12-11 22:34:52

End at: 2017-12-11 22:35:22

Local clock offset: -0.585 ms

Remote clock offset: 1.32 ms

Below is generated by plot.py at 2017-12-12 03:22:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 19.36 Mbit/s

95th percentile per-packet one-way delay: 28.986 ms

Loss rate: 0.66%

-- Flow 1:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 486.847 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 13.79 Mbit/s

95th percentile per-packet one-way delay: 29.899 ms

Loss rate: 0.76%

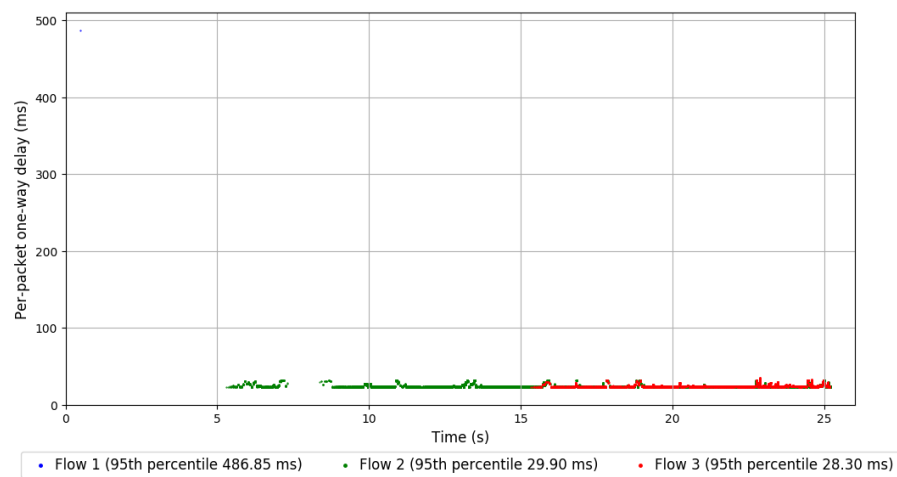
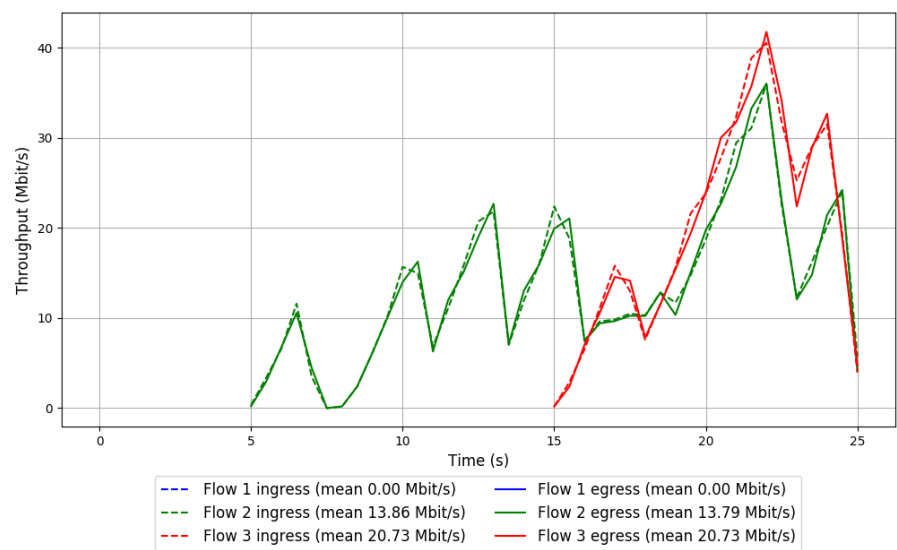
-- Flow 3:

Average throughput: 20.73 Mbit/s

95th percentile per-packet one-way delay: 28.296 ms

Loss rate: 0.53%

Run 8: Report of LEDBAT — Data Link

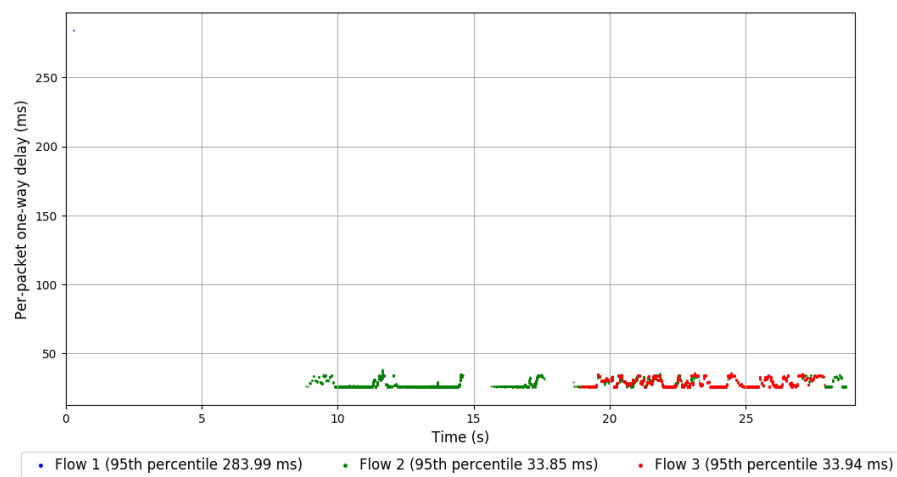
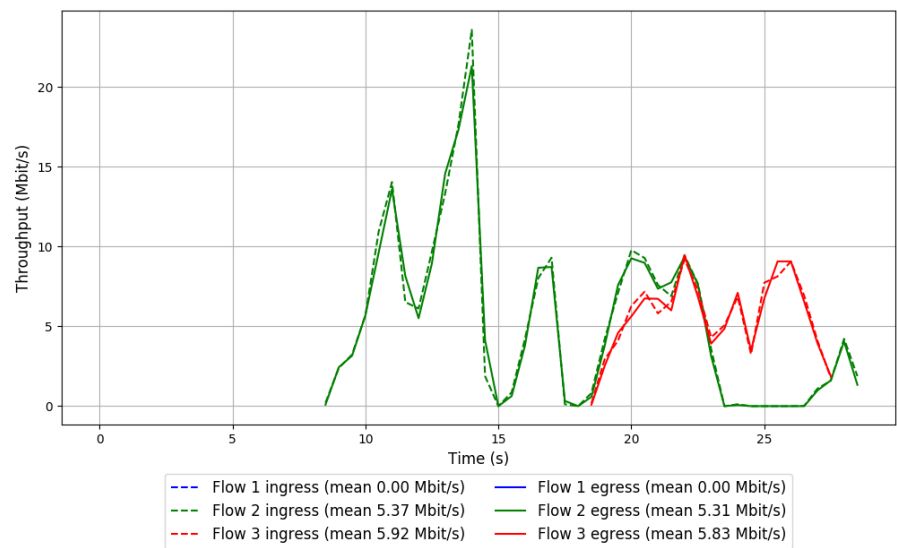


Run 9: Statistics of LEDBAT

Start at: 2017-12-11 22:56:10
End at: 2017-12-11 22:56:40
Local clock offset: -0.748 ms
Remote clock offset: -0.246 ms

Below is generated by plot.py at 2017-12-12 03:22:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 5.56 Mbit/s
95th percentile per-packet one-way delay: 33.900 ms
Loss rate: 1.37%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 283.992 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 5.31 Mbit/s
95th percentile per-packet one-way delay: 33.853 ms
Loss rate: 1.36%
-- Flow 3:
Average throughput: 5.83 Mbit/s
95th percentile per-packet one-way delay: 33.935 ms
Loss rate: 1.38%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2017-12-11 23:16:26

End at: 2017-12-11 23:16:56

Local clock offset: -0.44 ms

Remote clock offset: 0.092 ms

Below is generated by plot.py at 2017-12-12 03:22:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 19.75 Mbit/s

95th percentile per-packet one-way delay: 33.694 ms

Loss rate: 1.23%

-- Flow 1:

Average throughput: 10.55 Mbit/s

95th percentile per-packet one-way delay: 33.724 ms

Loss rate: 0.98%

-- Flow 2:

Average throughput: 9.61 Mbit/s

95th percentile per-packet one-way delay: 33.707 ms

Loss rate: 1.23%

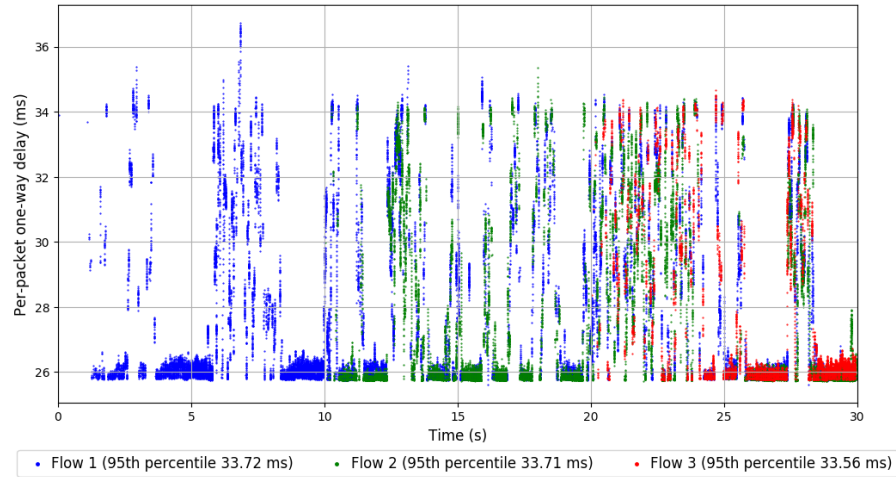
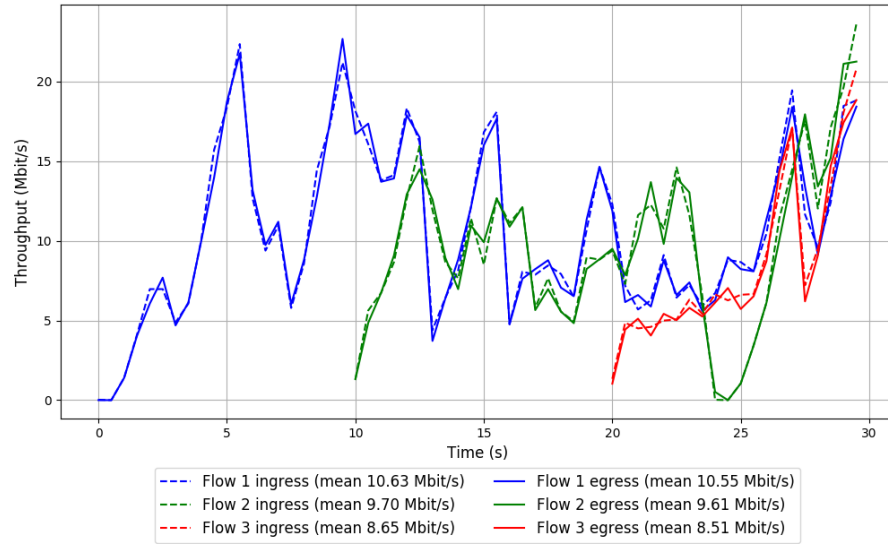
-- Flow 3:

Average throughput: 8.51 Mbit/s

95th percentile per-packet one-way delay: 33.563 ms

Loss rate: 2.17%

Run 10: Report of LEDBAT — Data Link

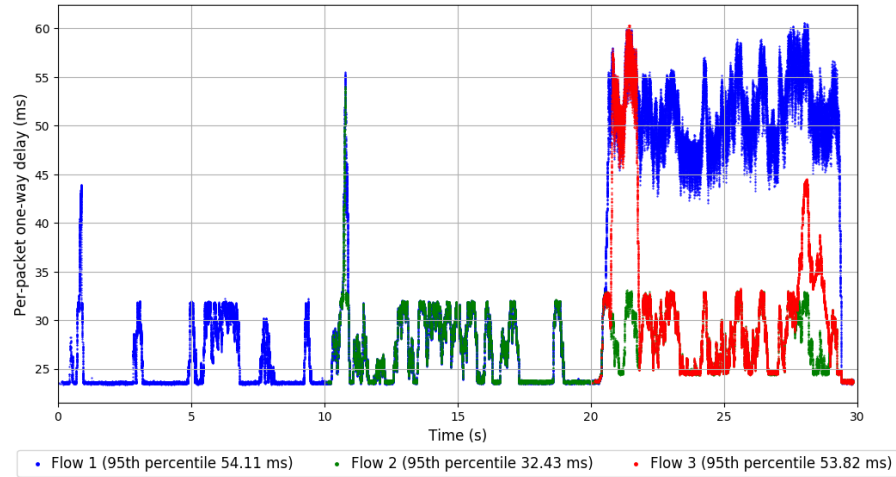
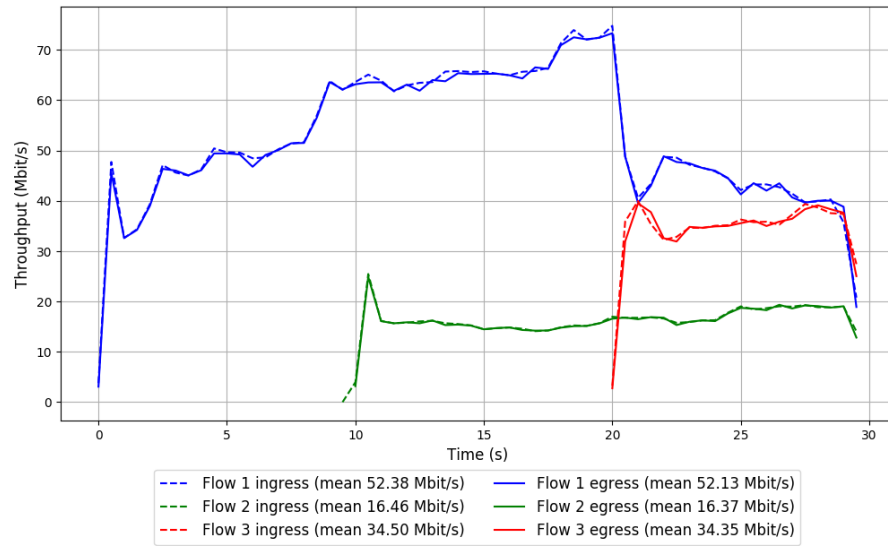


Run 1: Statistics of PCC

Start at: 2017-12-11 19:58:10
End at: 2017-12-11 19:58:40
Local clock offset: -0.883 ms
Remote clock offset: -3.308 ms

Below is generated by plot.py at 2017-12-12 03:22:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 74.30 Mbit/s
95th percentile per-packet one-way delay: 53.564 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 52.13 Mbit/s
95th percentile per-packet one-way delay: 54.112 ms
Loss rate: 0.66%
-- Flow 2:
Average throughput: 16.37 Mbit/s
95th percentile per-packet one-way delay: 32.428 ms
Loss rate: 0.83%
-- Flow 3:
Average throughput: 34.35 Mbit/s
95th percentile per-packet one-way delay: 53.819 ms
Loss rate: 0.97%

Run 1: Report of PCC — Data Link

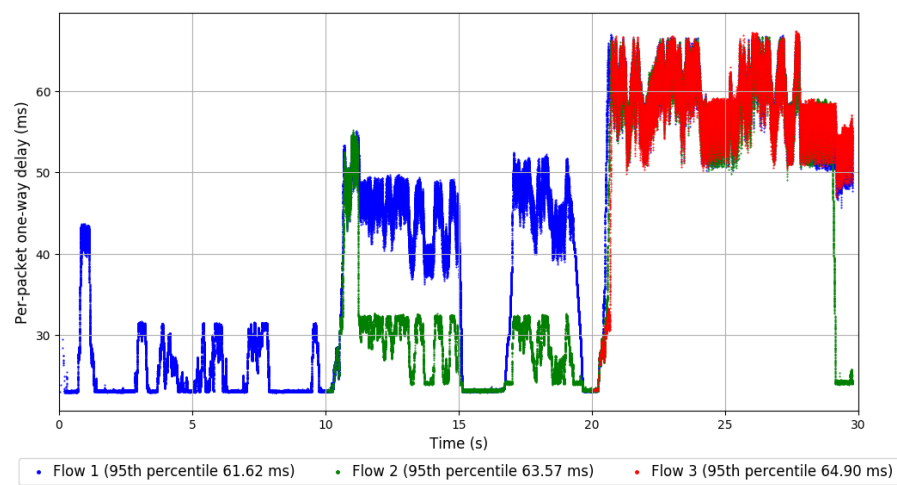
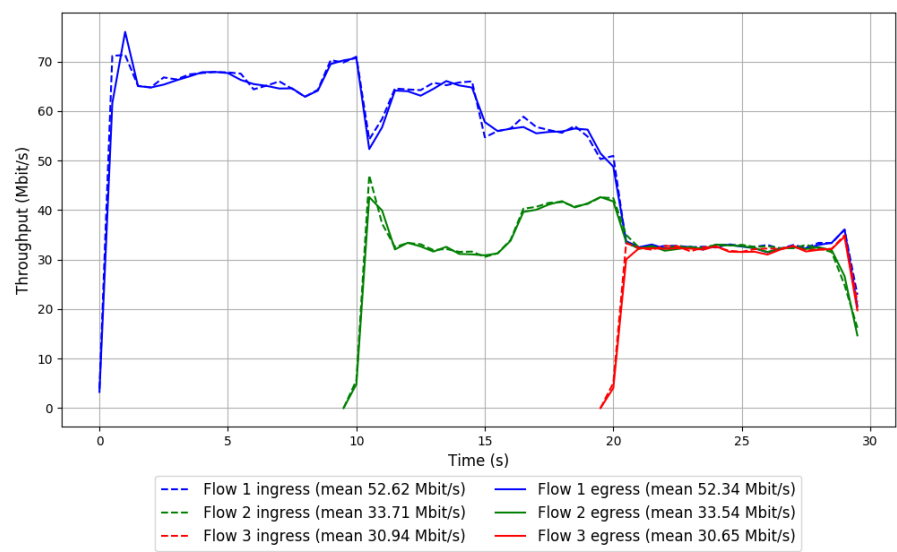


Run 2: Statistics of PCC

Start at: 2017-12-11 20:17:33
End at: 2017-12-11 20:18:03
Local clock offset: -1.353 ms
Remote clock offset: -2.617 ms

Below is generated by plot.py at 2017-12-12 03:23:03
Datalink statistics
-- Total of 3 flows:
Average throughput: 84.77 Mbit/s
95th percentile per-packet one-way delay: 63.168 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 52.34 Mbit/s
95th percentile per-packet one-way delay: 61.622 ms
Loss rate: 0.74%
-- Flow 2:
Average throughput: 33.54 Mbit/s
95th percentile per-packet one-way delay: 63.568 ms
Loss rate: 0.76%
-- Flow 3:
Average throughput: 30.65 Mbit/s
95th percentile per-packet one-way delay: 64.902 ms
Loss rate: 1.51%

Run 2: Report of PCC — Data Link

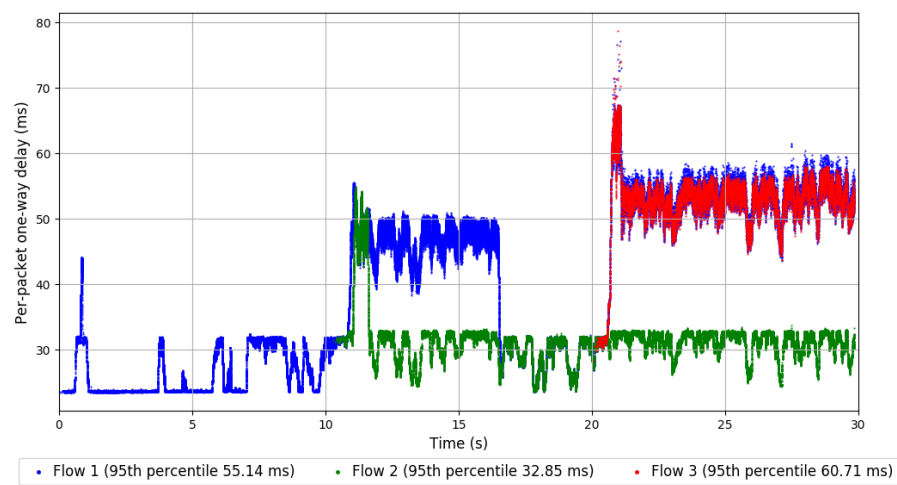
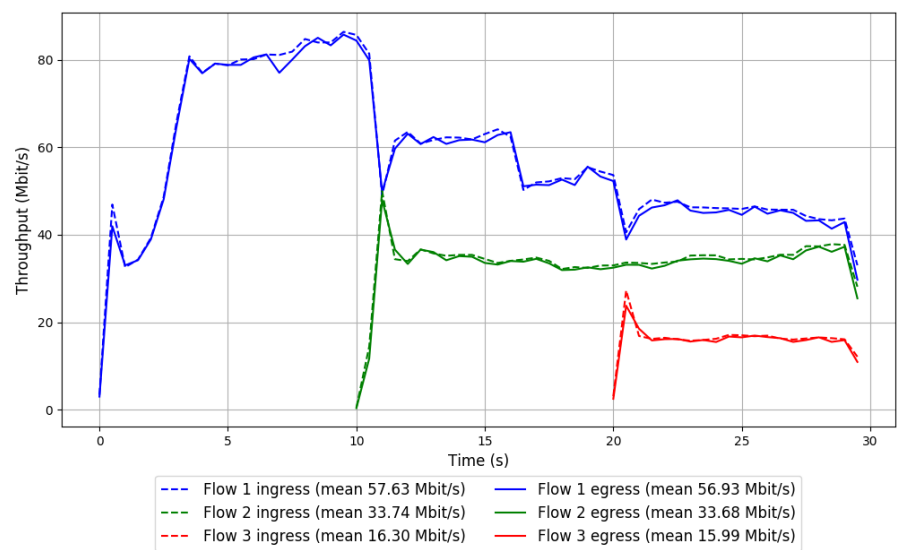


Run 3: Statistics of PCC

Start at: 2017-12-11 20:37:20
End at: 2017-12-11 20:37:50
Local clock offset: -1.316 ms
Remote clock offset: -2.735 ms

Below is generated by plot.py at 2017-12-12 03:23:08
Datalink statistics
-- Total of 3 flows:
Average throughput: 84.28 Mbit/s
95th percentile per-packet one-way delay: 55.027 ms
Loss rate: 1.56%
-- Flow 1:
Average throughput: 56.93 Mbit/s
95th percentile per-packet one-way delay: 55.143 ms
Loss rate: 1.39%
-- Flow 2:
Average throughput: 33.68 Mbit/s
95th percentile per-packet one-way delay: 32.847 ms
Loss rate: 1.77%
-- Flow 3:
Average throughput: 15.99 Mbit/s
95th percentile per-packet one-way delay: 60.711 ms
Loss rate: 2.47%

Run 3: Report of PCC — Data Link

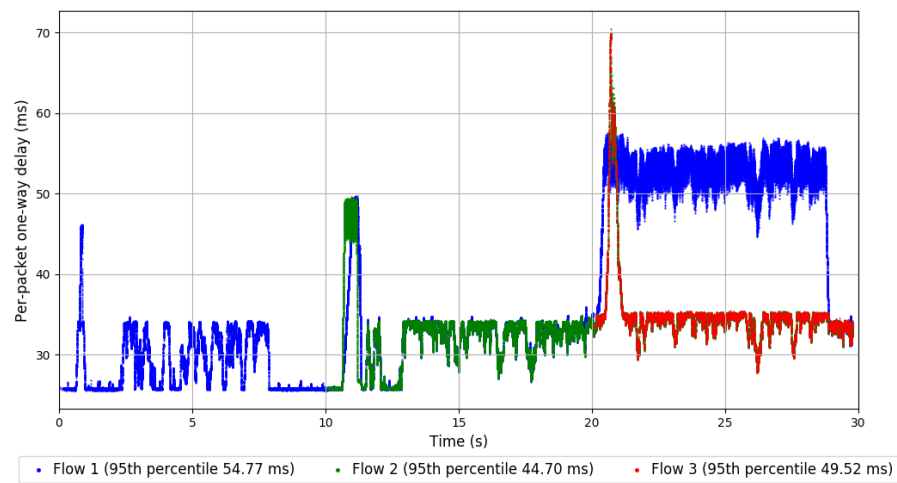
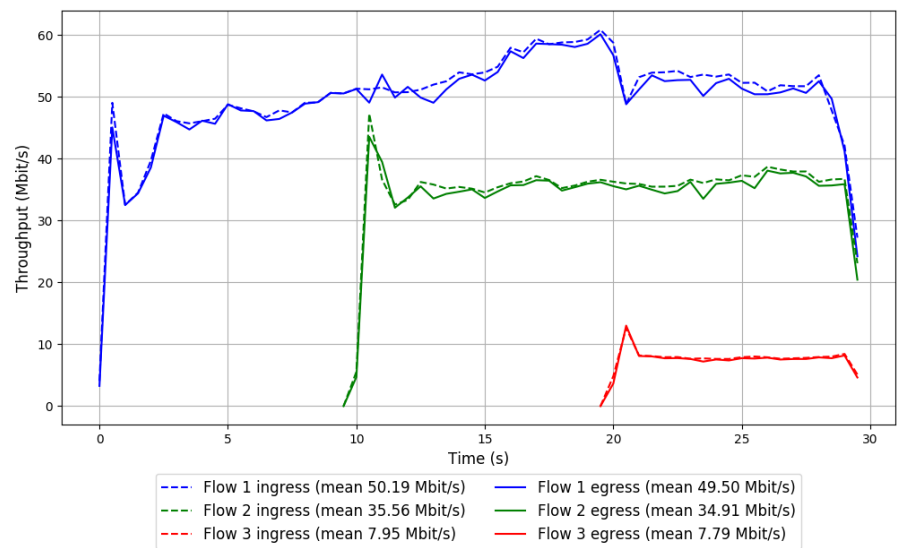


Run 4: Statistics of PCC

Start at: 2017-12-11 20:57:11
End at: 2017-12-11 20:57:41
Local clock offset: -1.001 ms
Remote clock offset: -4.044 ms

Below is generated by plot.py at 2017-12-12 03:23:08
Datalink statistics
-- Total of 3 flows:
Average throughput: 75.31 Mbit/s
95th percentile per-packet one-way delay: 54.457 ms
Loss rate: 1.76%
-- Flow 1:
Average throughput: 49.50 Mbit/s
95th percentile per-packet one-way delay: 54.769 ms
Loss rate: 1.55%
-- Flow 2:
Average throughput: 34.91 Mbit/s
95th percentile per-packet one-way delay: 44.705 ms
Loss rate: 2.10%
-- Flow 3:
Average throughput: 7.79 Mbit/s
95th percentile per-packet one-way delay: 49.522 ms
Loss rate: 2.70%

Run 4: Report of PCC — Data Link

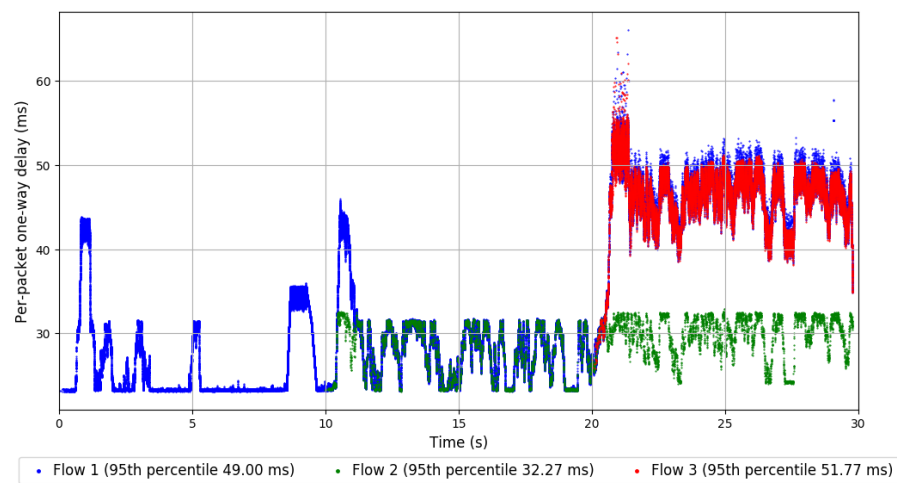
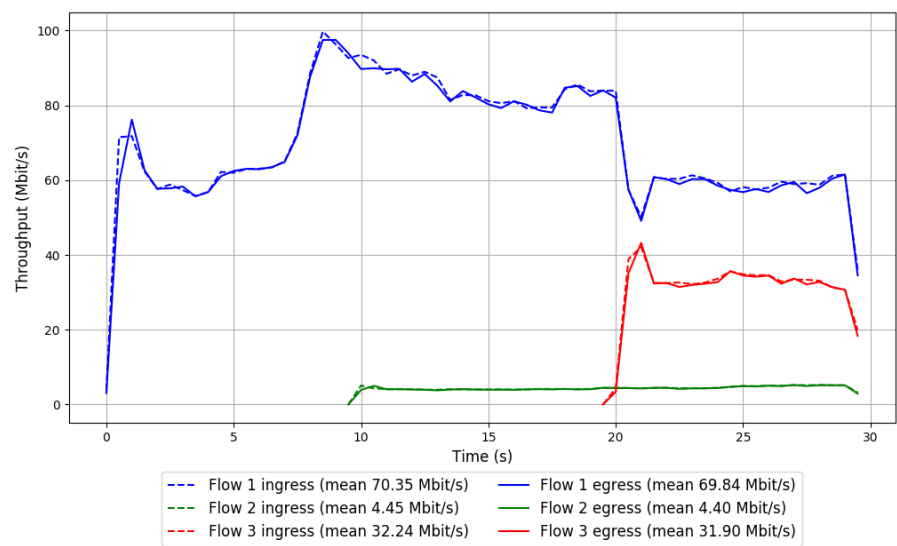


Run 5: Statistics of PCC

Start at: 2017-12-11 21:17:10
End at: 2017-12-11 21:17:40
Local clock offset: -0.606 ms
Remote clock offset: -0.459 ms

Below is generated by plot.py at 2017-12-12 03:23:08
Datalink statistics
-- Total of 3 flows:
Average throughput: 83.26 Mbit/s
95th percentile per-packet one-way delay: 49.363 ms
Loss rate: 1.02%
-- Flow 1:
Average throughput: 69.84 Mbit/s
95th percentile per-packet one-way delay: 48.998 ms
Loss rate: 0.91%
-- Flow 2:
Average throughput: 4.40 Mbit/s
95th percentile per-packet one-way delay: 32.271 ms
Loss rate: 1.36%
-- Flow 3:
Average throughput: 31.90 Mbit/s
95th percentile per-packet one-way delay: 51.775 ms
Loss rate: 1.62%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2017-12-11 21:37:45

End at: 2017-12-11 21:38:15

Local clock offset: -0.246 ms

Remote clock offset: 0.068 ms

Below is generated by plot.py at 2017-12-12 03:23:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 80.73 Mbit/s

95th percentile per-packet one-way delay: 48.793 ms

Loss rate: 1.49%

-- Flow 1:

Average throughput: 69.29 Mbit/s

95th percentile per-packet one-way delay: 48.709 ms

Loss rate: 1.38%

-- Flow 2:

Average throughput: 2.36 Mbit/s

95th percentile per-packet one-way delay: 32.656 ms

Loss rate: 2.09%

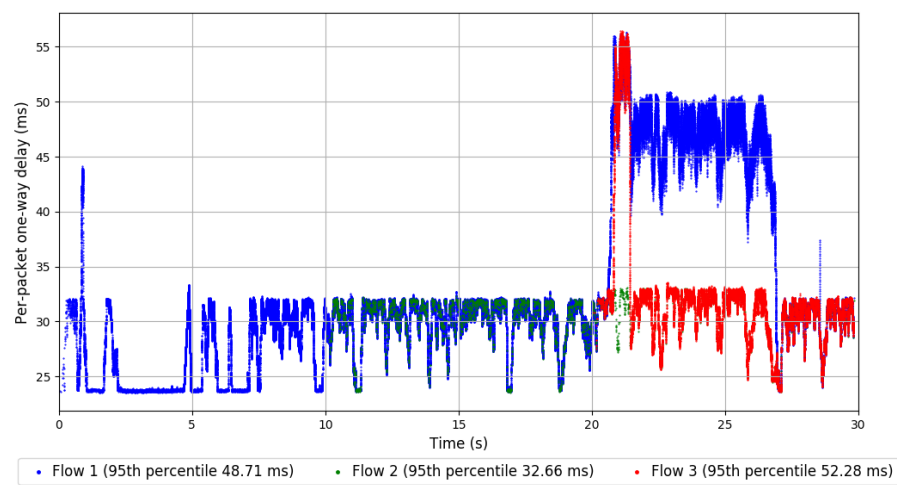
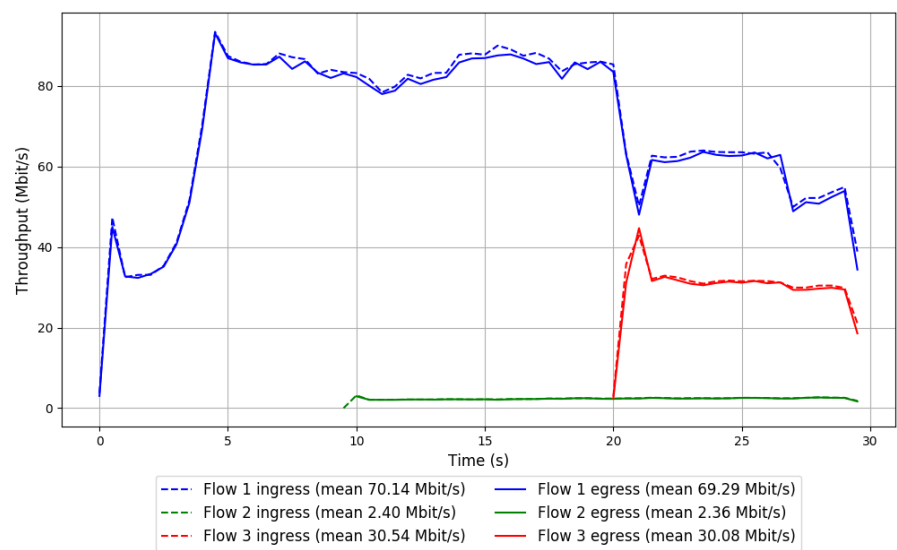
-- Flow 3:

Average throughput: 30.08 Mbit/s

95th percentile per-packet one-way delay: 52.281 ms

Loss rate: 2.13%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2017-12-11 21:58:10

End at: 2017-12-11 21:58:40

Local clock offset: 0.105 ms

Remote clock offset: 0.864 ms

Below is generated by plot.py at 2017-12-12 03:23:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 68.47 Mbit/s

95th percentile per-packet one-way delay: 62.669 ms

Loss rate: 1.39%

-- Flow 1:

Average throughput: 27.26 Mbit/s

95th percentile per-packet one-way delay: 63.478 ms

Loss rate: 1.26%

-- Flow 2:

Average throughput: 46.76 Mbit/s

95th percentile per-packet one-way delay: 62.886 ms

Loss rate: 1.49%

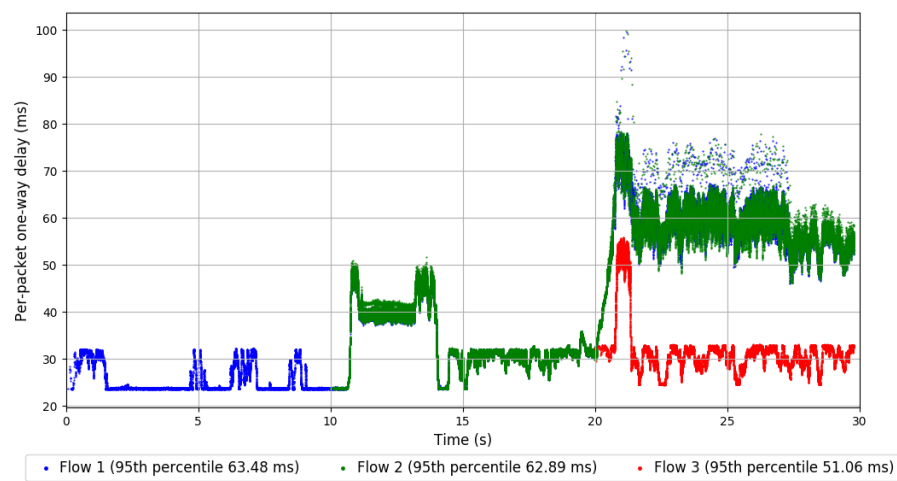
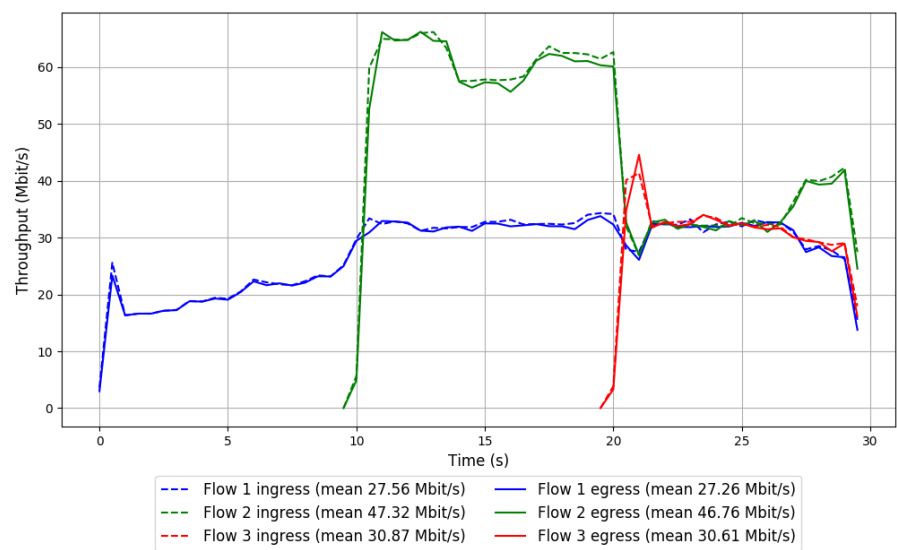
-- Flow 3:

Average throughput: 30.61 Mbit/s

95th percentile per-packet one-way delay: 51.057 ms

Loss rate: 1.44%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2017-12-11 22:19:12

End at: 2017-12-11 22:19:42

Local clock offset: -0.195 ms

Remote clock offset: 1.001 ms

Below is generated by plot.py at 2017-12-12 03:23:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 55.64 Mbit/s

95th percentile per-packet one-way delay: 50.882 ms

Loss rate: 1.64%

-- Flow 1:

Average throughput: 38.62 Mbit/s

95th percentile per-packet one-way delay: 49.111 ms

Loss rate: 1.49%

-- Flow 2:

Average throughput: 11.10 Mbit/s

95th percentile per-packet one-way delay: 31.979 ms

Loss rate: 1.71%

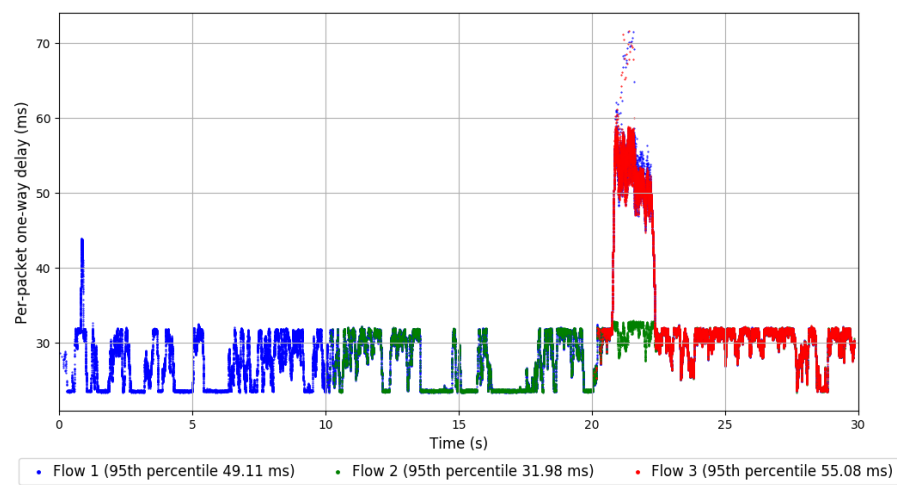
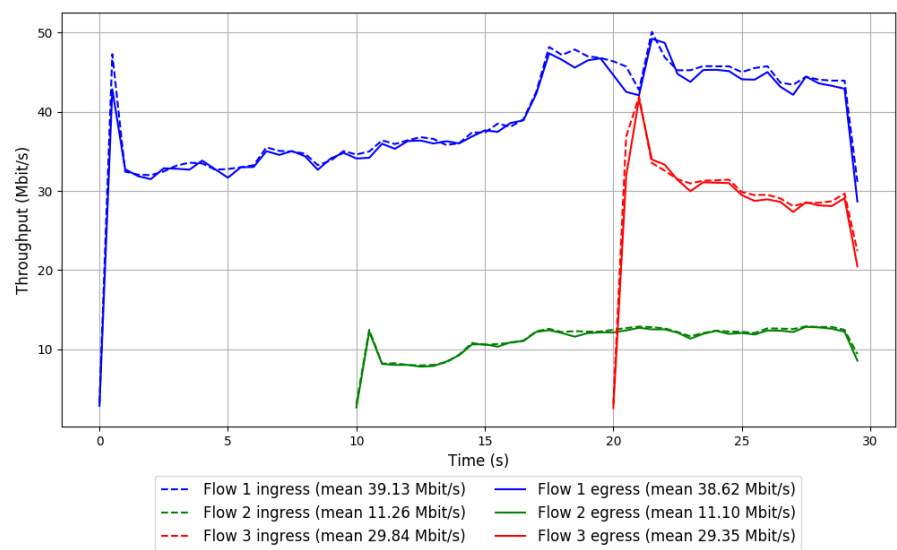
-- Flow 3:

Average throughput: 29.35 Mbit/s

95th percentile per-packet one-way delay: 55.080 ms

Loss rate: 2.19%

Run 8: Report of PCC — Data Link

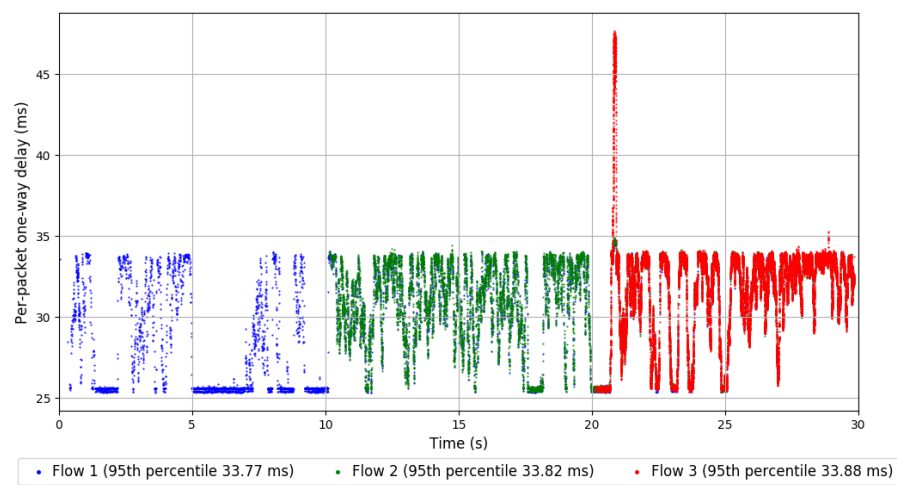
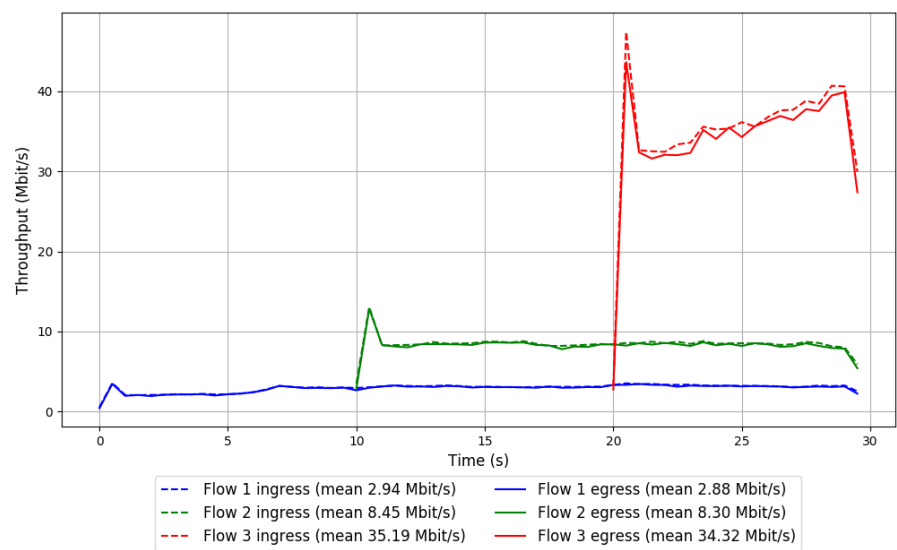


Run 9: Statistics of PCC

Start at: 2017-12-11 22:40:28
End at: 2017-12-11 22:40:58
Local clock offset: -0.71 ms
Remote clock offset: -0.596 ms

Below is generated by plot.py at 2017-12-12 03:23:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 19.68 Mbit/s
95th percentile per-packet one-way delay: 33.853 ms
Loss rate: 2.61%
-- Flow 1:
Average throughput: 2.88 Mbit/s
95th percentile per-packet one-way delay: 33.769 ms
Loss rate: 2.15%
-- Flow 2:
Average throughput: 8.30 Mbit/s
95th percentile per-packet one-way delay: 33.817 ms
Loss rate: 2.12%
-- Flow 3:
Average throughput: 34.32 Mbit/s
95th percentile per-packet one-way delay: 33.885 ms
Loss rate: 2.97%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2017-12-11 23:01:34

End at: 2017-12-11 23:02:04

Local clock offset: -0.636 ms

Remote clock offset: 2.066 ms

Below is generated by plot.py at 2017-12-12 03:24:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.53 Mbit/s

95th percentile per-packet one-way delay: 52.873 ms

Loss rate: 0.72%

-- Flow 1:

Average throughput: 58.09 Mbit/s

95th percentile per-packet one-way delay: 54.145 ms

Loss rate: 0.63%

-- Flow 2:

Average throughput: 35.76 Mbit/s

95th percentile per-packet one-way delay: 40.686 ms

Loss rate: 0.88%

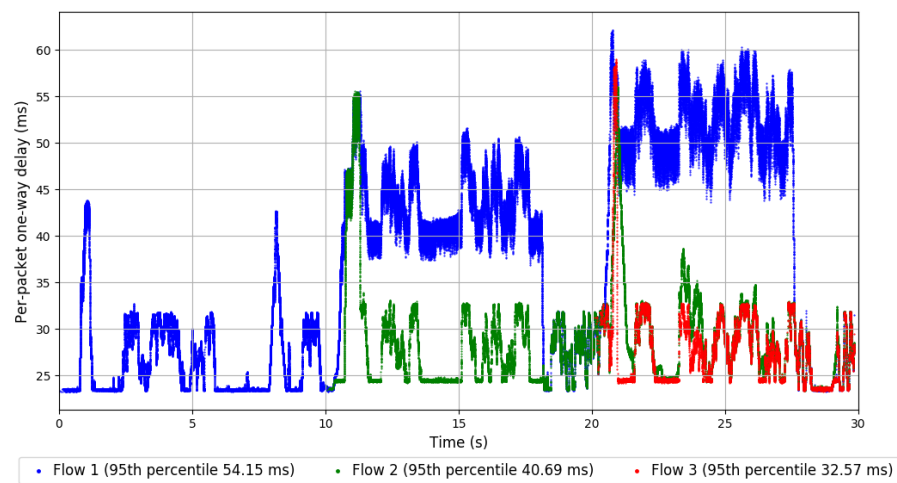
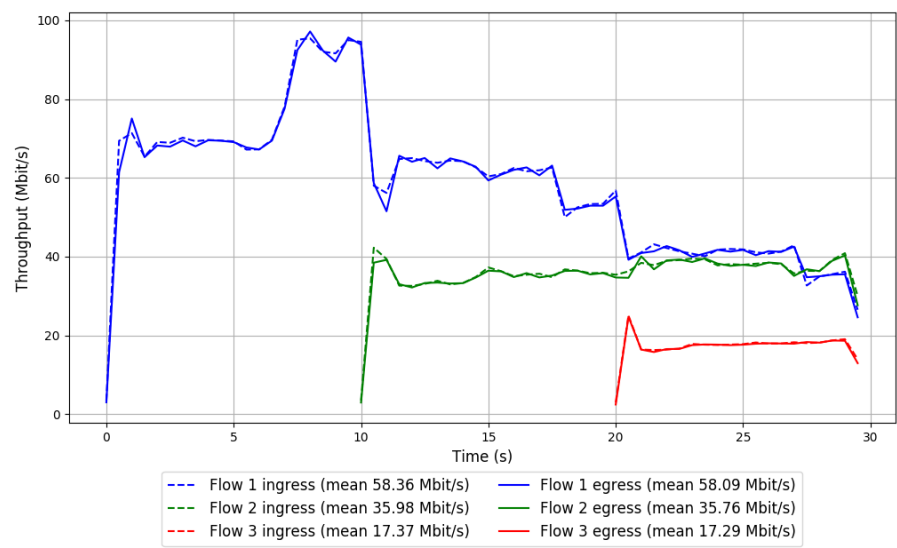
-- Flow 3:

Average throughput: 17.29 Mbit/s

95th percentile per-packet one-way delay: 32.566 ms

Loss rate: 1.03%

Run 10: Report of PCC — Data Link

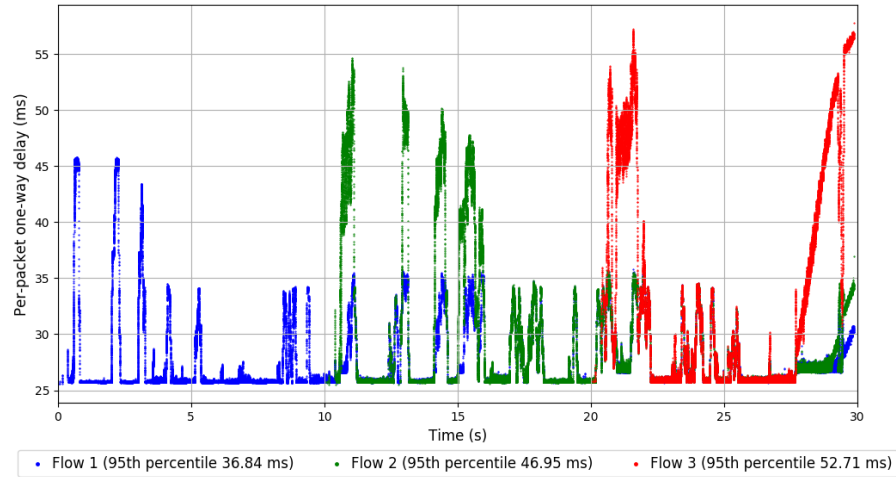
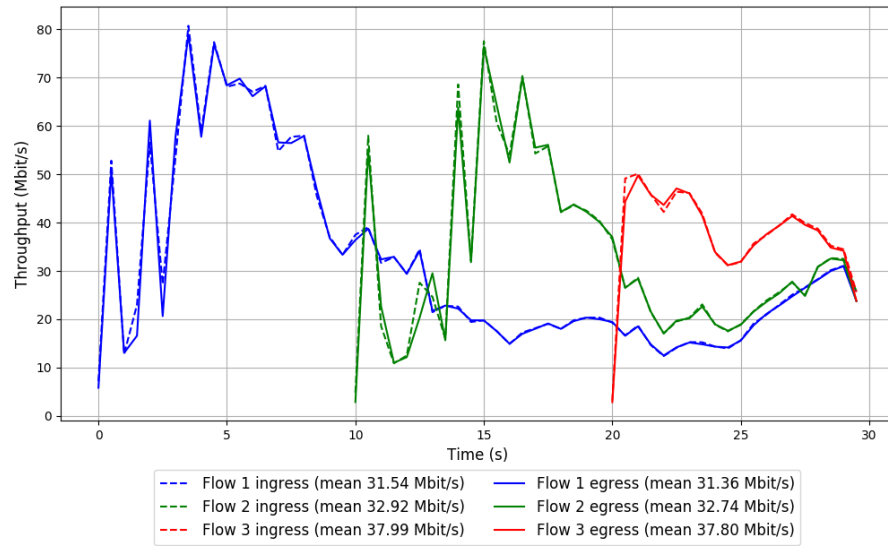


Run 1: Statistics of QUIC Cubic

Start at: 2017-12-11 20:13:29
End at: 2017-12-11 20:13:59
Local clock offset: -1.196 ms
Remote clock offset: -5.178 ms

Below is generated by plot.py at 2017-12-12 03:24:32
Datalink statistics
-- Total of 3 flows:
Average throughput: 65.56 Mbit/s
95th percentile per-packet one-way delay: 46.951 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 31.36 Mbit/s
95th percentile per-packet one-way delay: 36.841 ms
Loss rate: 0.73%
-- Flow 2:
Average throughput: 32.74 Mbit/s
95th percentile per-packet one-way delay: 46.948 ms
Loss rate: 0.78%
-- Flow 3:
Average throughput: 37.80 Mbit/s
95th percentile per-packet one-way delay: 52.712 ms
Loss rate: 1.00%

Run 1: Report of QUIC Cubic — Data Link

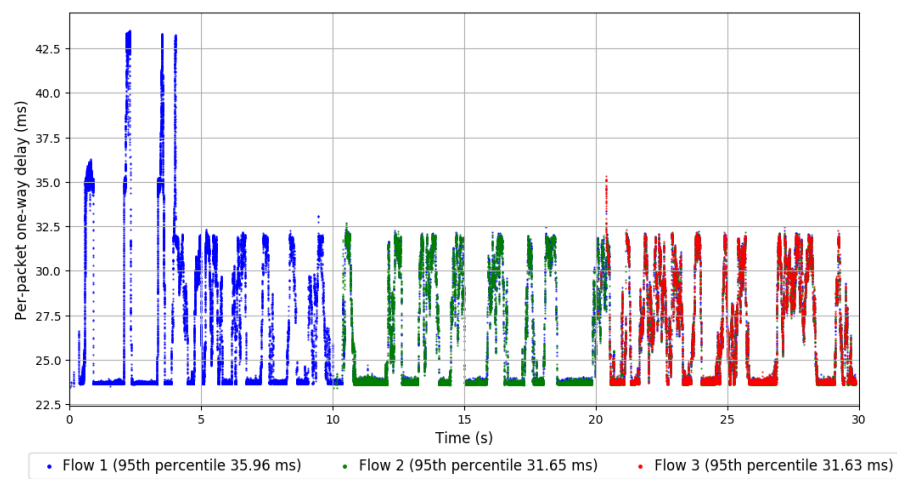
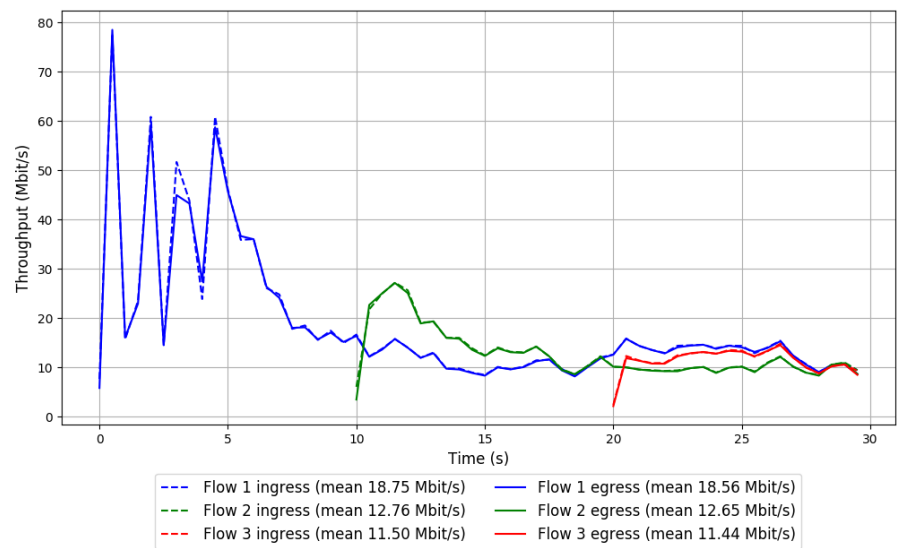


Run 2: Statistics of QUIC Cubic

Start at: 2017-12-11 20:33:17
End at: 2017-12-11 20:33:47
Local clock offset: -1.334 ms
Remote clock offset: -2.755 ms

Below is generated by plot.py at 2017-12-12 03:24:32
Datalink statistics
-- Total of 3 flows:
Average throughput: 30.74 Mbit/s
95th percentile per-packet one-way delay: 35.040 ms
Loss rate: 1.14%
-- Flow 1:
Average throughput: 18.56 Mbit/s
95th percentile per-packet one-way delay: 35.959 ms
Loss rate: 1.16%
-- Flow 2:
Average throughput: 12.65 Mbit/s
95th percentile per-packet one-way delay: 31.646 ms
Loss rate: 1.11%
-- Flow 3:
Average throughput: 11.44 Mbit/s
95th percentile per-packet one-way delay: 31.632 ms
Loss rate: 1.08%

Run 2: Report of QUIC Cubic — Data Link

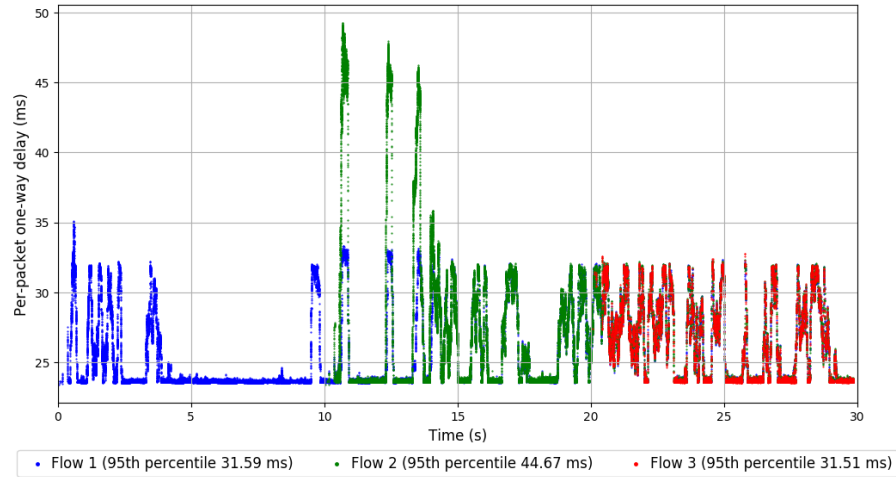
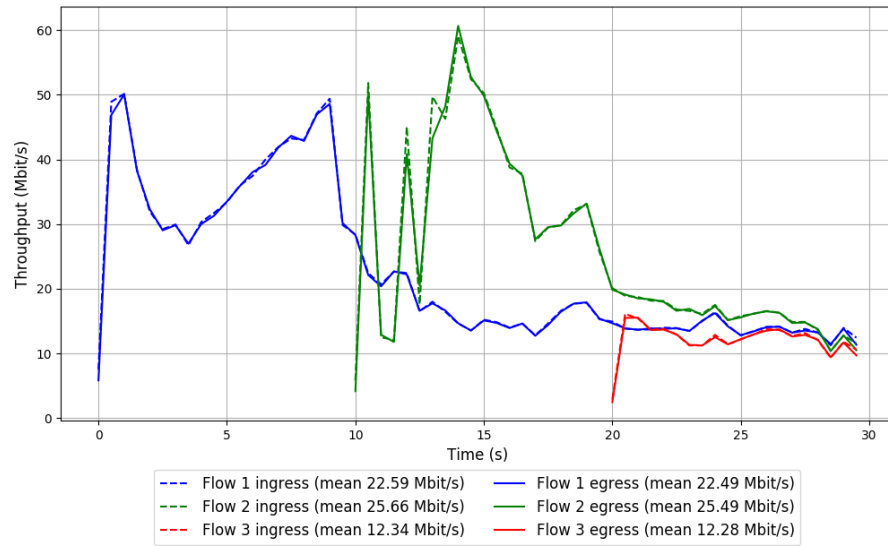


Run 3: Statistics of QUIC Cubic

Start at: 2017-12-11 20:53:08
End at: 2017-12-11 20:53:38
Local clock offset: -1.157 ms
Remote clock offset: -2.124 ms

Below is generated by plot.py at 2017-12-12 03:24:32
Datalink statistics
-- Total of 3 flows:
Average throughput: 43.46 Mbit/s
95th percentile per-packet one-way delay: 32.780 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 22.49 Mbit/s
95th percentile per-packet one-way delay: 31.585 ms
Loss rate: 0.62%
-- Flow 2:
Average throughput: 25.49 Mbit/s
95th percentile per-packet one-way delay: 44.672 ms
Loss rate: 0.91%
-- Flow 3:
Average throughput: 12.28 Mbit/s
95th percentile per-packet one-way delay: 31.508 ms
Loss rate: 1.08%

Run 3: Report of QUIC Cubic — Data Link

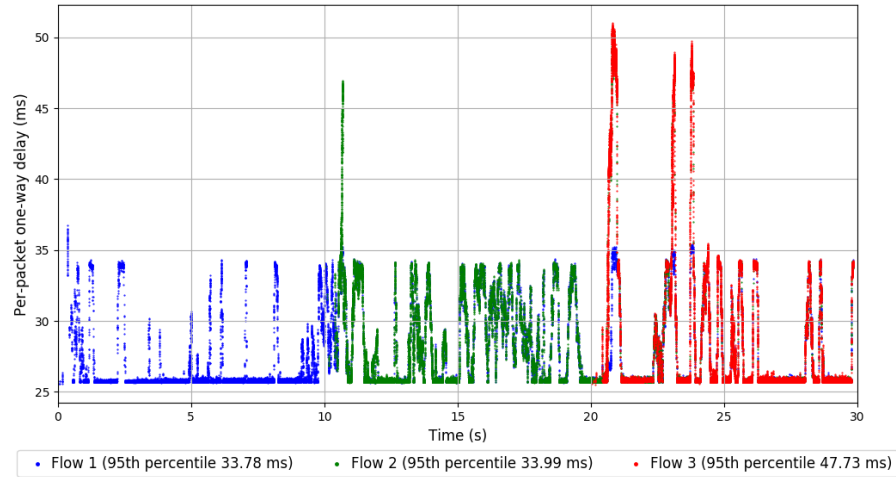
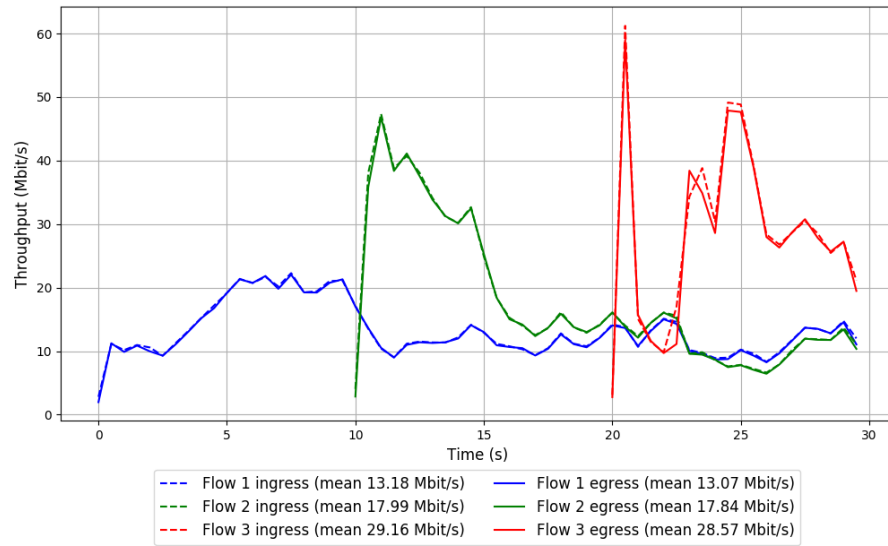


Run 4: Statistics of QUIC Cubic

Start at: 2017-12-11 21:13:06
End at: 2017-12-11 21:13:36
Local clock offset: -0.798 ms
Remote clock offset: -3.129 ms

Below is generated by plot.py at 2017-12-12 03:24:32
Datalink statistics
-- Total of 3 flows:
Average throughput: 34.32 Mbit/s
95th percentile per-packet one-way delay: 35.290 ms
Loss rate: 1.47%
-- Flow 1:
Average throughput: 13.07 Mbit/s
95th percentile per-packet one-way delay: 33.779 ms
Loss rate: 0.98%
-- Flow 2:
Average throughput: 17.84 Mbit/s
95th percentile per-packet one-way delay: 33.992 ms
Loss rate: 1.12%
-- Flow 3:
Average throughput: 28.57 Mbit/s
95th percentile per-packet one-way delay: 47.733 ms
Loss rate: 2.57%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2017-12-11 21:33:39

End at: 2017-12-11 21:34:09

Local clock offset: -0.412 ms

Remote clock offset: 0.459 ms

Below is generated by plot.py at 2017-12-12 03:24:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 21.72 Mbit/s

95th percentile per-packet one-way delay: 31.174 ms

Loss rate: 0.96%

-- Flow 1:

Average throughput: 14.18 Mbit/s

95th percentile per-packet one-way delay: 31.149 ms

Loss rate: 0.78%

-- Flow 2:

Average throughput: 8.01 Mbit/s

95th percentile per-packet one-way delay: 31.187 ms

Loss rate: 1.15%

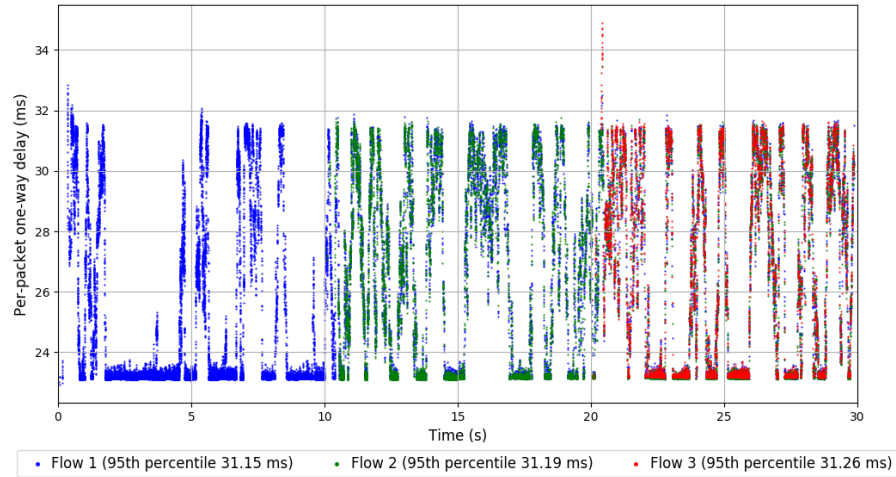
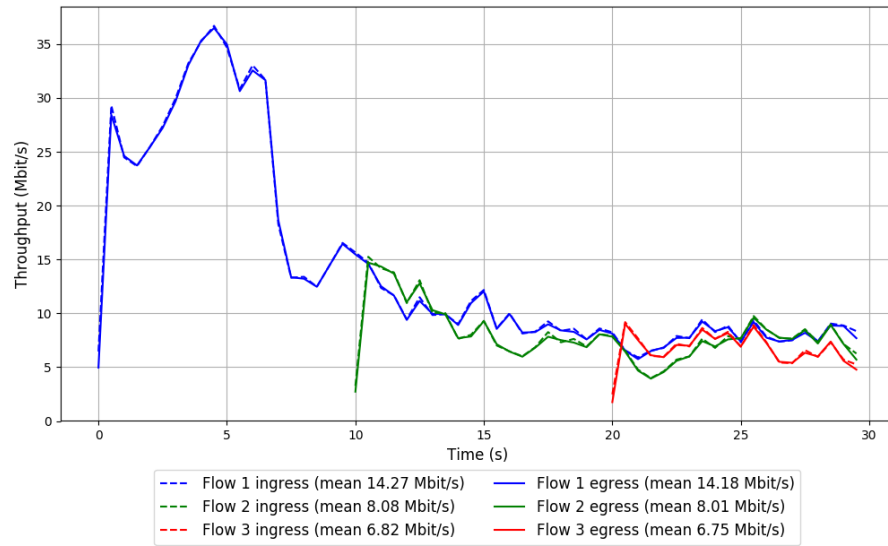
-- Flow 3:

Average throughput: 6.75 Mbit/s

95th percentile per-packet one-way delay: 31.262 ms

Loss rate: 1.60%

Run 5: Report of QUIC Cubic — Data Link

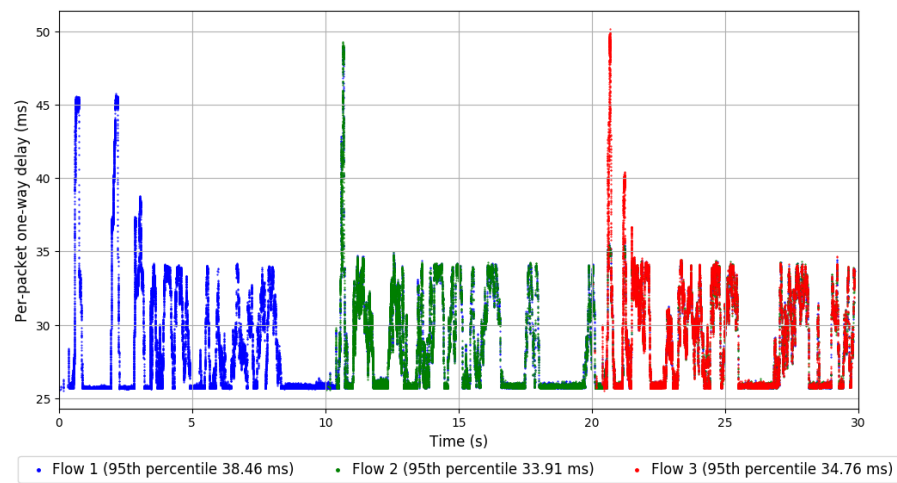
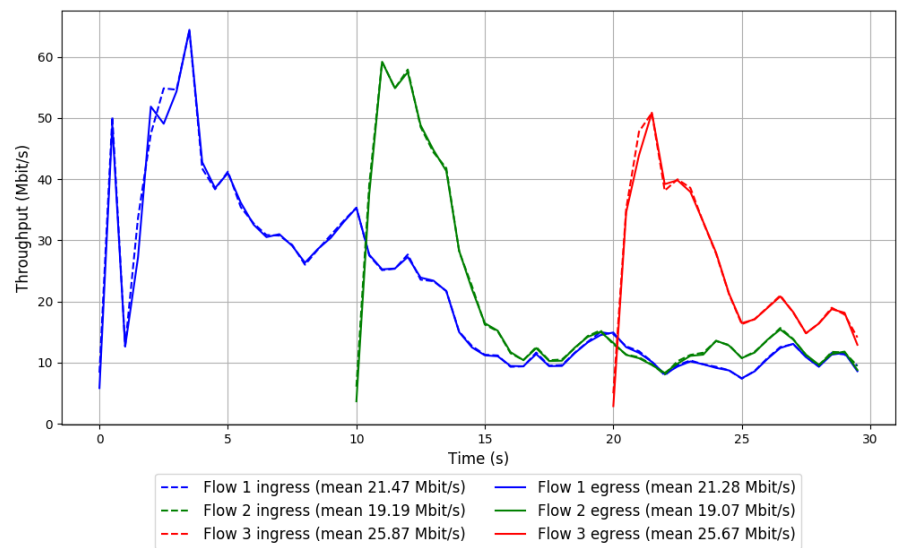


Run 6: Statistics of QUIC Cubic

Start at: 2017-12-11 21:54:04
End at: 2017-12-11 21:54:34
Local clock offset: 0.007 ms
Remote clock offset: -1.354 ms

Below is generated by plot.py at 2017-12-12 03:24:32
Datalink statistics
-- Total of 3 flows:
Average throughput: 42.39 Mbit/s
95th percentile per-packet one-way delay: 36.064 ms
Loss rate: 1.07%
-- Flow 1:
Average throughput: 21.28 Mbit/s
95th percentile per-packet one-way delay: 38.461 ms
Loss rate: 1.06%
-- Flow 2:
Average throughput: 19.07 Mbit/s
95th percentile per-packet one-way delay: 33.905 ms
Loss rate: 0.88%
-- Flow 3:
Average throughput: 25.67 Mbit/s
95th percentile per-packet one-way delay: 34.763 ms
Loss rate: 1.38%

Run 6: Report of QUIC Cubic — Data Link

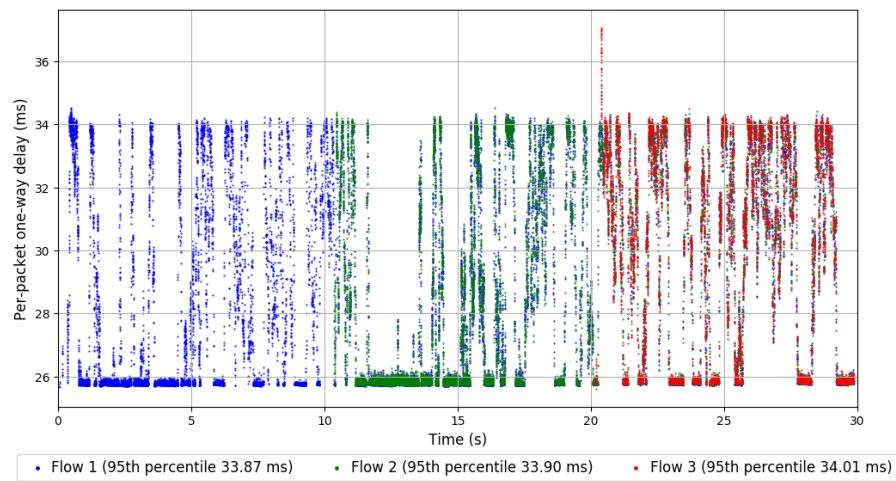
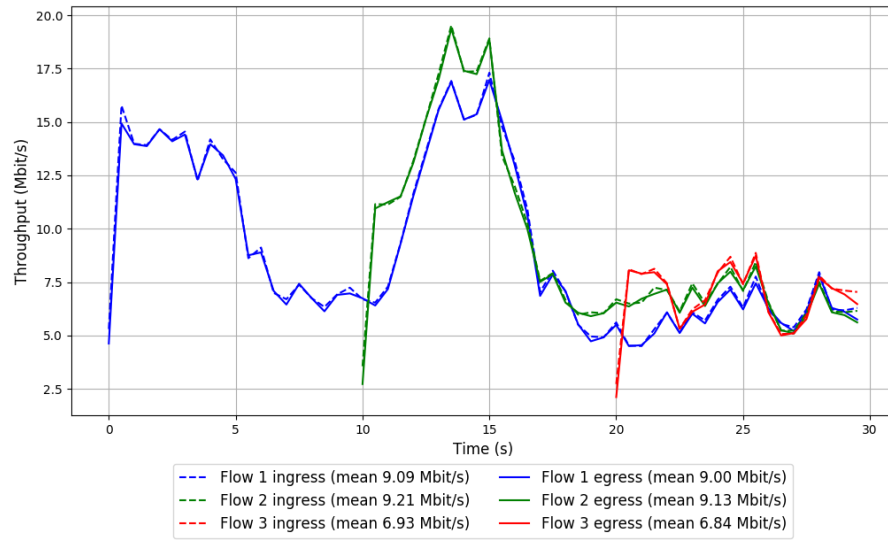


Run 7: Statistics of QUIC Cubic

Start at: 2017-12-11 22:15:08
End at: 2017-12-11 22:15:38
Local clock offset: -0.051 ms
Remote clock offset: -1.151 ms

Below is generated by plot.py at 2017-12-12 03:24:32
Datalink statistics
-- Total of 3 flows:
Average throughput: 17.31 Mbit/s
95th percentile per-packet one-way delay: 33.903 ms
Loss rate: 1.28%
-- Flow 1:
Average throughput: 9.00 Mbit/s
95th percentile per-packet one-way delay: 33.868 ms
Loss rate: 1.18%
-- Flow 2:
Average throughput: 9.13 Mbit/s
95th percentile per-packet one-way delay: 33.899 ms
Loss rate: 1.23%
-- Flow 3:
Average throughput: 6.84 Mbit/s
95th percentile per-packet one-way delay: 34.006 ms
Loss rate: 1.84%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2017-12-11 22:36:14

End at: 2017-12-11 22:36:44

Local clock offset: -0.654 ms

Remote clock offset: 1.701 ms

Below is generated by plot.py at 2017-12-12 03:24:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 43.03 Mbit/s

95th percentile per-packet one-way delay: 33.511 ms

Loss rate: 1.00%

-- Flow 1:

Average throughput: 12.77 Mbit/s

95th percentile per-packet one-way delay: 31.404 ms

Loss rate: 1.04%

-- Flow 2:

Average throughput: 33.48 Mbit/s

95th percentile per-packet one-way delay: 35.714 ms

Loss rate: 0.85%

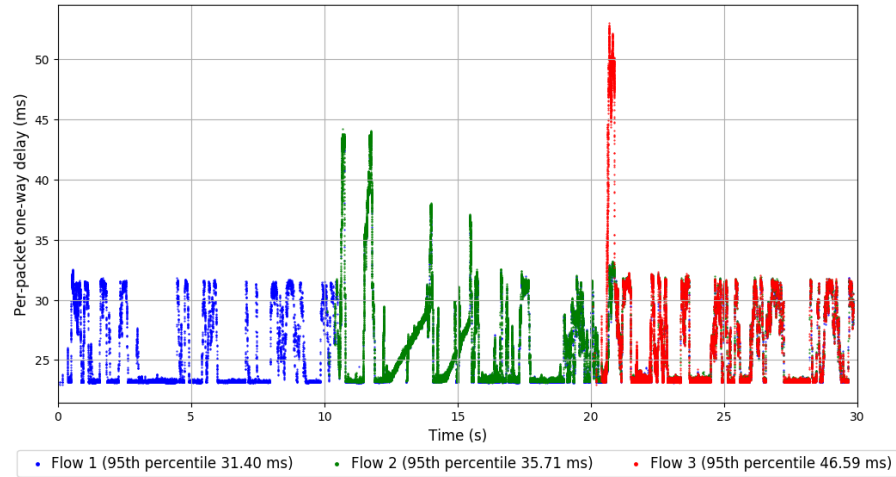
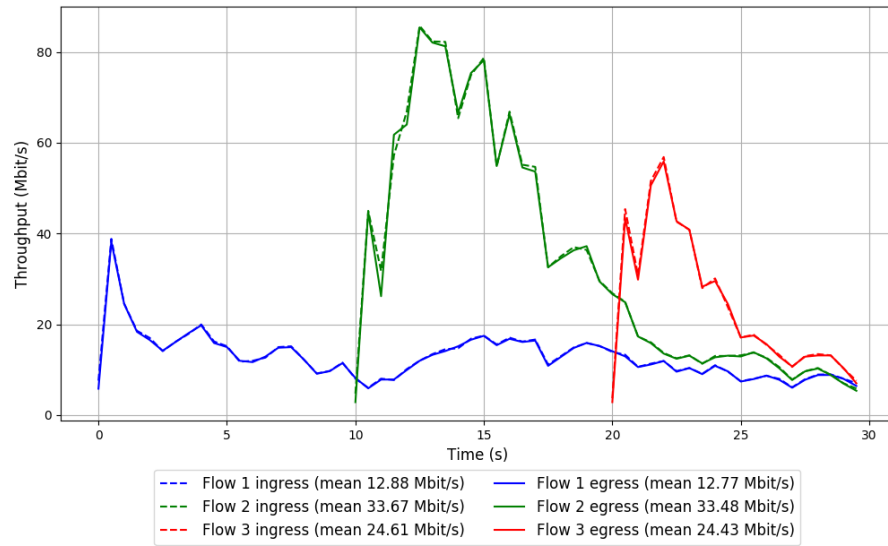
-- Flow 3:

Average throughput: 24.43 Mbit/s

95th percentile per-packet one-way delay: 46.588 ms

Loss rate: 1.36%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2017-12-11 22:57:29

End at: 2017-12-11 22:57:59

Local clock offset: -0.668 ms

Remote clock offset: 2.472 ms

Below is generated by plot.py at 2017-12-12 03:24:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 31.43 Mbit/s

95th percentile per-packet one-way delay: 31.240 ms

Loss rate: 1.17%

-- Flow 1:

Average throughput: 16.39 Mbit/s

95th percentile per-packet one-way delay: 31.113 ms

Loss rate: 1.00%

-- Flow 2:

Average throughput: 19.29 Mbit/s

95th percentile per-packet one-way delay: 31.445 ms

Loss rate: 1.22%

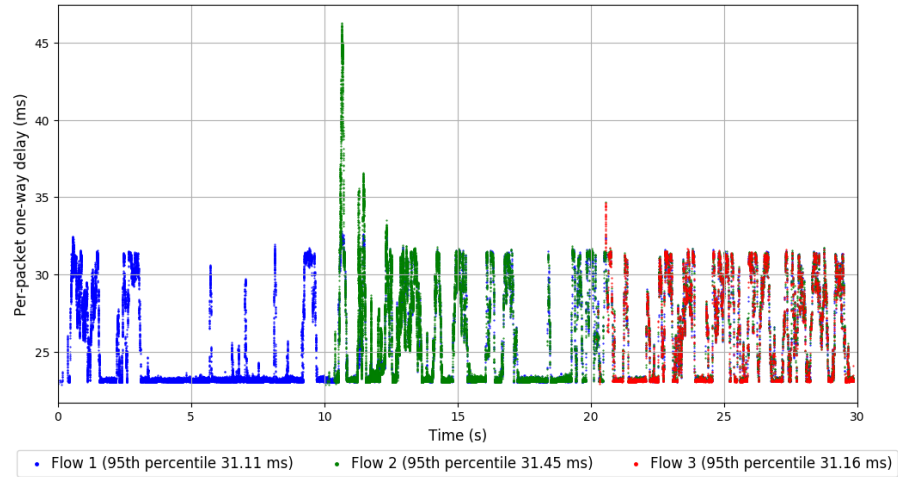
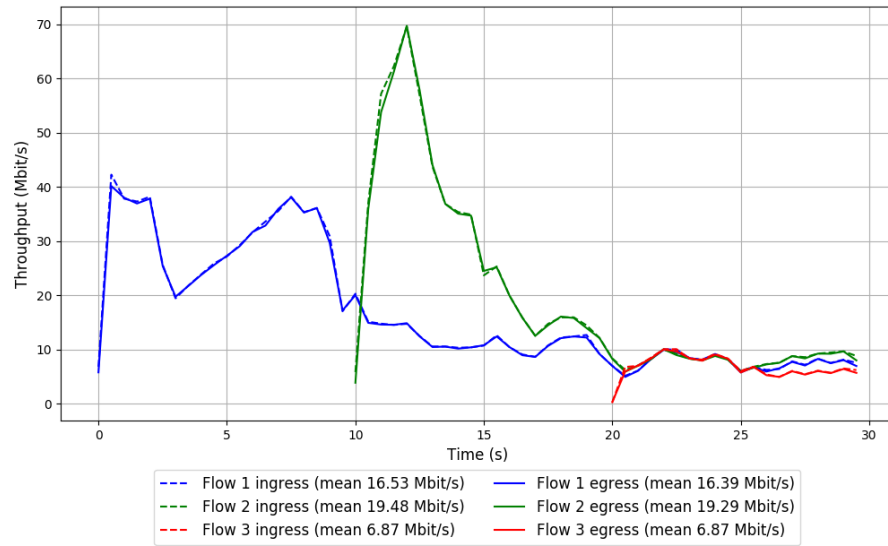
-- Flow 3:

Average throughput: 6.87 Mbit/s

95th percentile per-packet one-way delay: 31.163 ms

Loss rate: 2.15%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2017-12-11 23:17:48

End at: 2017-12-11 23:18:18

Local clock offset: -0.446 ms

Remote clock offset: 2.141 ms

Below is generated by plot.py at 2017-12-12 03:24:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 30.52 Mbit/s

95th percentile per-packet one-way delay: 31.884 ms

Loss rate: 0.99%

-- Flow 1:

Average throughput: 14.86 Mbit/s

95th percentile per-packet one-way delay: 31.848 ms

Loss rate: 0.85%

-- Flow 2:

Average throughput: 19.10 Mbit/s

95th percentile per-packet one-way delay: 31.942 ms

Loss rate: 1.01%

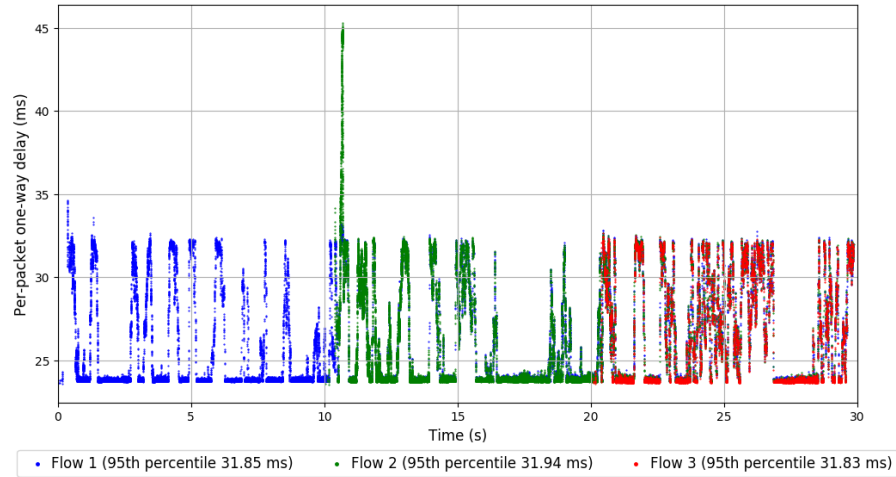
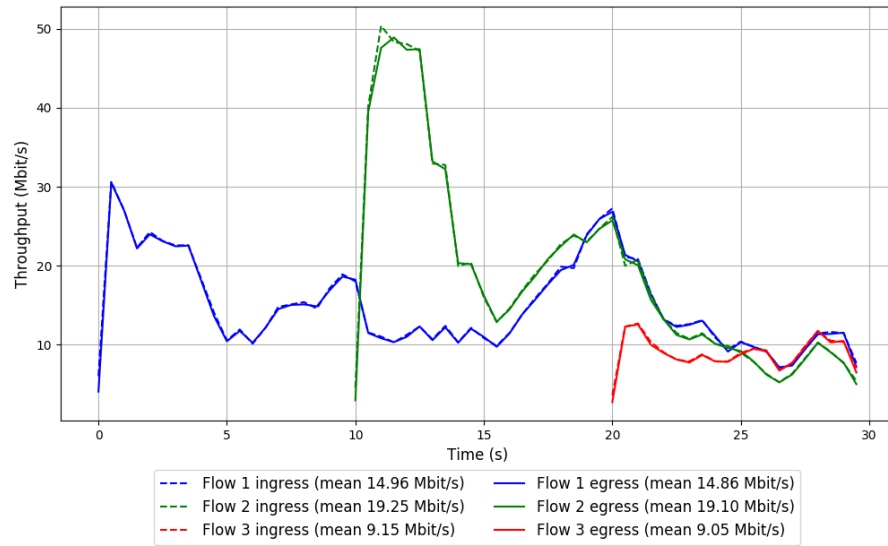
-- Flow 3:

Average throughput: 9.05 Mbit/s

95th percentile per-packet one-way delay: 31.827 ms

Loss rate: 1.60%

Run 10: Report of QUIC Cubic — Data Link

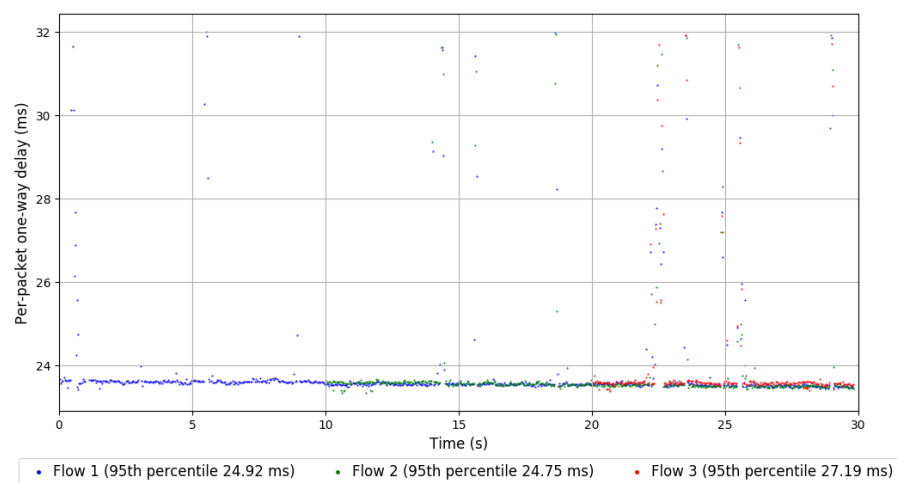
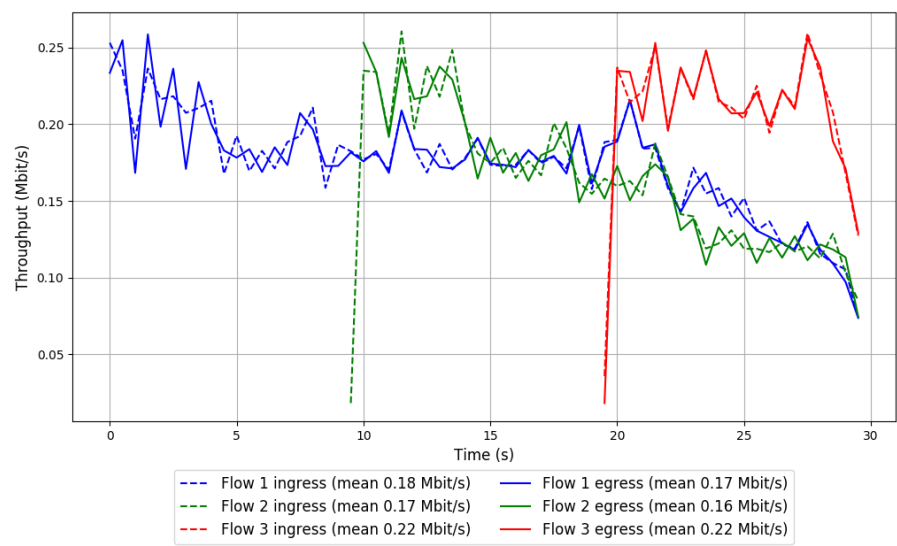


```
Run 1: Statistics of SCReAM

Start at: 2017-12-11 20:14:56
End at: 2017-12-11 20:15:26
Local clock offset: -1.325 ms
Remote clock offset: -3.063 ms

# Below is generated by plot.py at 2017-12-12 03:24:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.36 Mbit/s
95th percentile per-packet one-way delay: 25.531 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 24.920 ms
Loss rate: 0.58%
-- Flow 2:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 24.746 ms
Loss rate: 0.82%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 27.190 ms
Loss rate: 0.69%
```

Run 1: Report of SReAM — Data Link

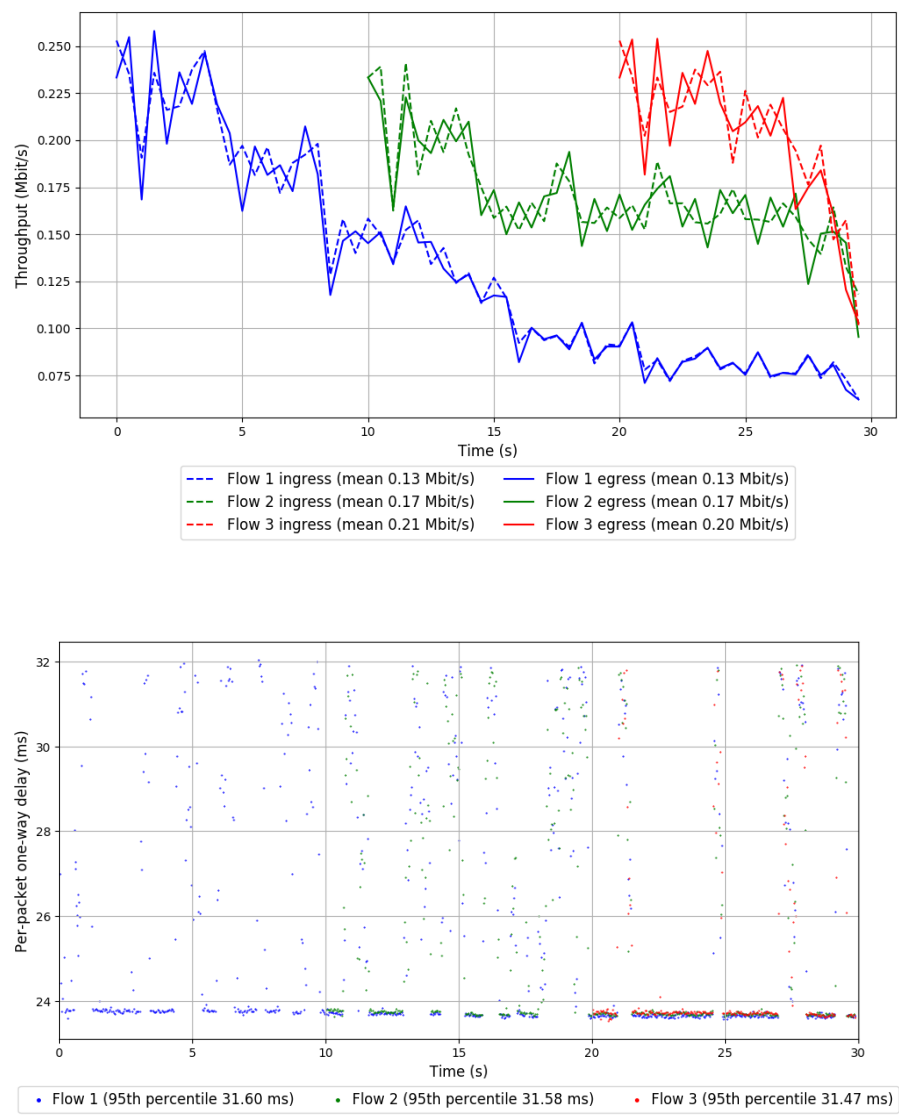


Run 2: Statistics of SReAM

Start at: 2017-12-11 20:34:40
End at: 2017-12-11 20:35:10
Local clock offset: -1.306 ms
Remote clock offset: -2.821 ms

Below is generated by plot.py at 2017-12-12 03:24:32
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.31 Mbit/s
95th percentile per-packet one-way delay: 31.581 ms
Loss rate: 1.11%
-- Flow 1:
Average throughput: 0.13 Mbit/s
95th percentile per-packet one-way delay: 31.600 ms
Loss rate: 1.11%
-- Flow 2:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 31.581 ms
Loss rate: 0.77%
-- Flow 3:
Average throughput: 0.20 Mbit/s
95th percentile per-packet one-way delay: 31.474 ms
Loss rate: 1.68%

Run 2: Report of SCRaM — Data Link

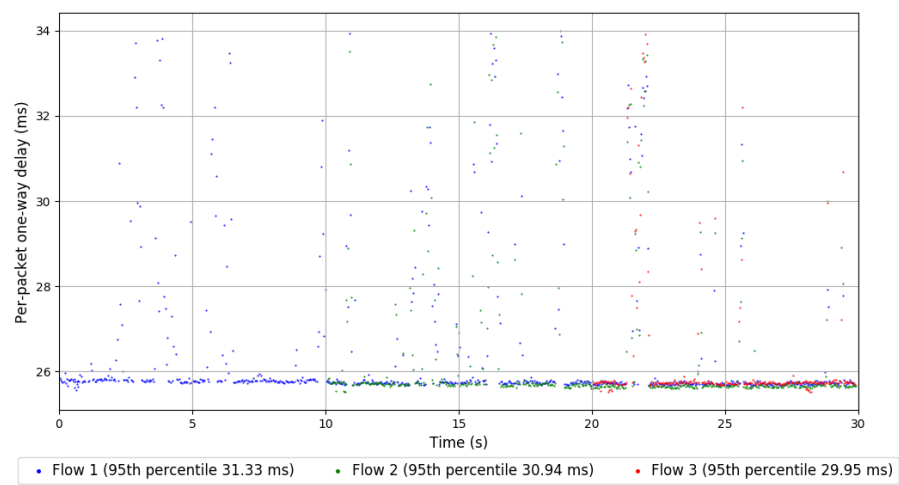
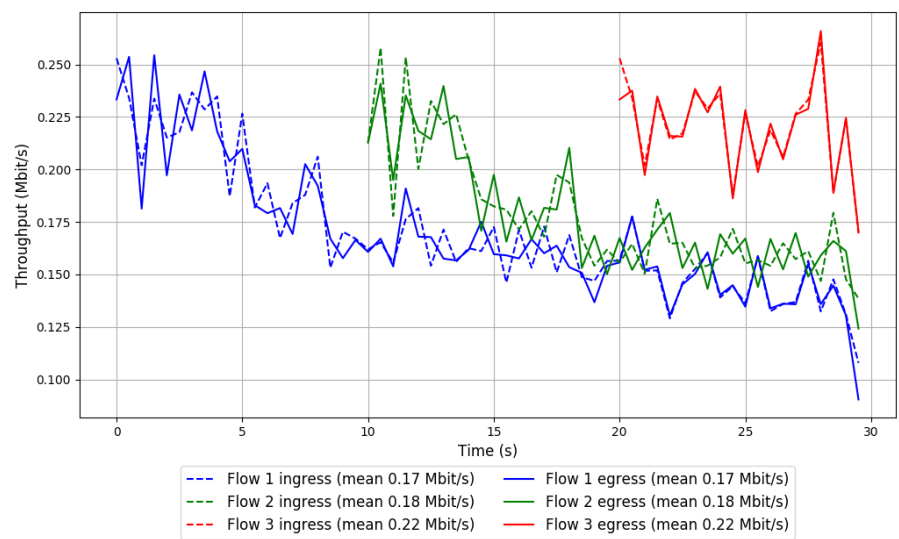


Run 3: Statistics of SCReAM

Start at: 2017-12-11 20:54:32
End at: 2017-12-11 20:55:02
Local clock offset: -1.141 ms
Remote clock offset: -4.189 ms

Below is generated by plot.py at 2017-12-12 03:24:32
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.36 Mbit/s
95th percentile per-packet one-way delay: 31.099 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 31.327 ms
Loss rate: 0.58%
-- Flow 2:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 30.941 ms
Loss rate: 0.48%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 29.948 ms
Loss rate: 0.35%

Run 3: Report of SReAM — Data Link

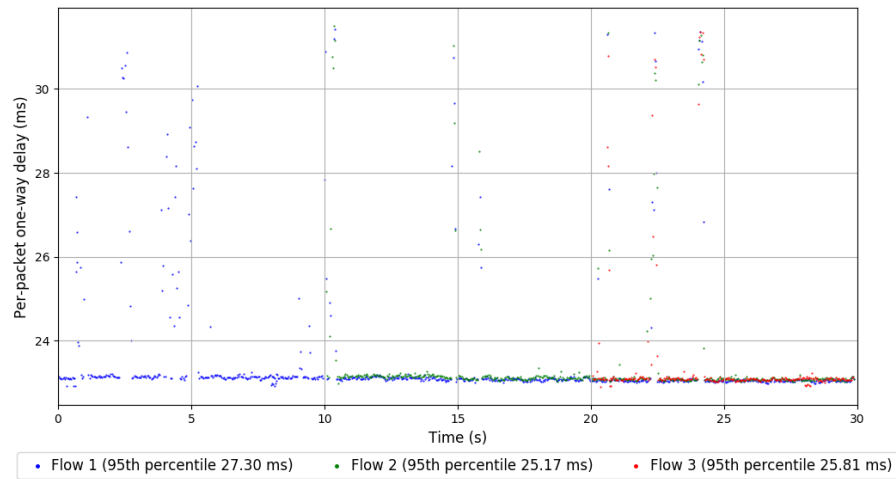
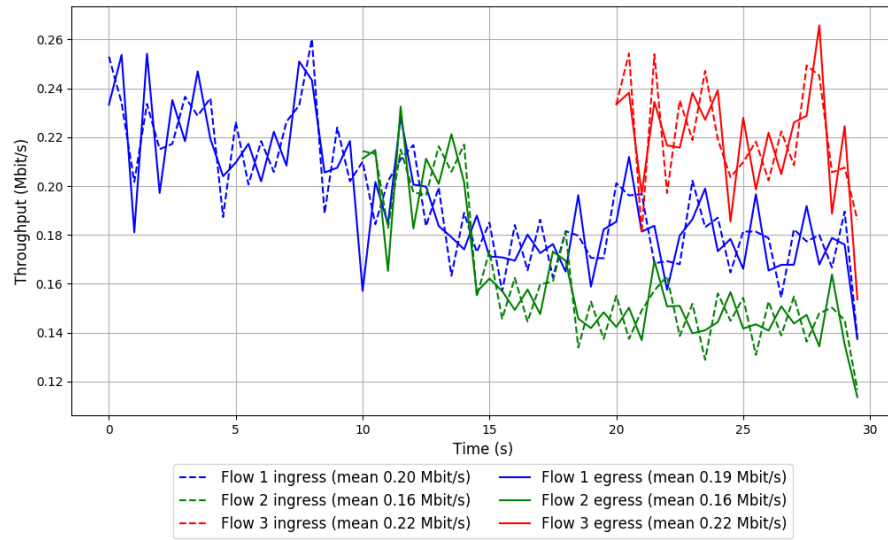


Run 4: Statistics of SCReAM

Start at: 2017-12-11 21:14:30
End at: 2017-12-11 21:15:00
Local clock offset: -0.77 ms
Remote clock offset: -0.468 ms

Below is generated by plot.py at 2017-12-12 03:24:32
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.38 Mbit/s
95th percentile per-packet one-way delay: 26.653 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 27.301 ms
Loss rate: 0.43%
-- Flow 2:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 25.174 ms
Loss rate: 0.43%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 25.810 ms
Loss rate: 0.74%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2017-12-11 21:35:05

End at: 2017-12-11 21:35:35

Local clock offset: -0.288 ms

Remote clock offset: 0.399 ms

Below is generated by plot.py at 2017-12-12 03:24:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.30 Mbit/s

95th percentile per-packet one-way delay: 31.117 ms

Loss rate: 0.96%

-- Flow 1:

Average throughput: 0.12 Mbit/s

95th percentile per-packet one-way delay: 31.161 ms

Loss rate: 1.04%

-- Flow 2:

Average throughput: 0.16 Mbit/s

95th percentile per-packet one-way delay: 31.114 ms

Loss rate: 1.03%

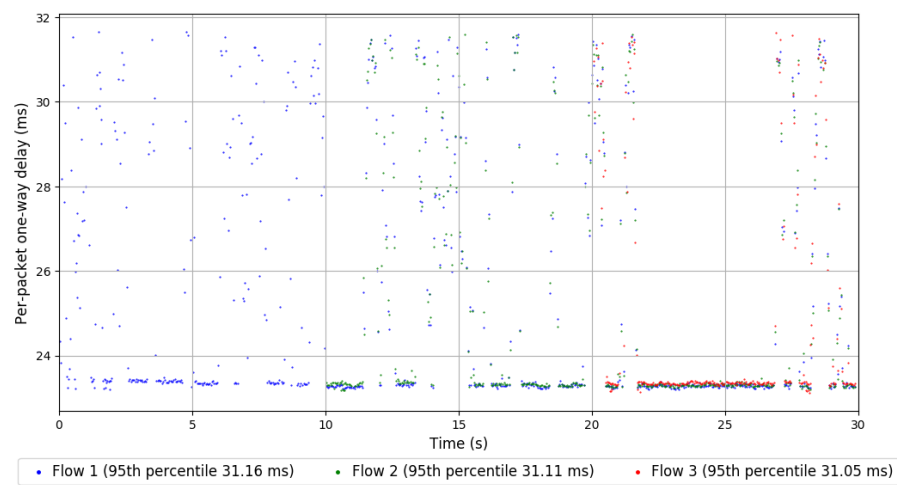
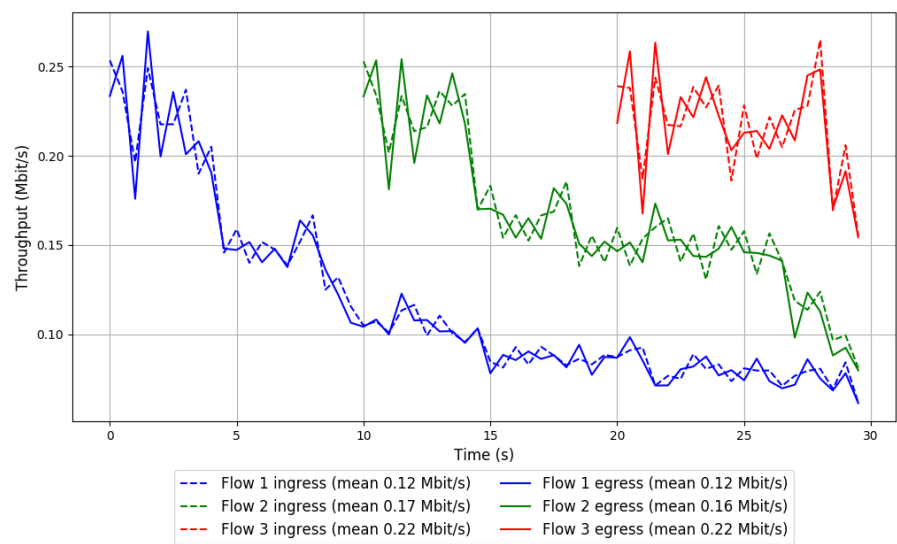
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 31.048 ms

Loss rate: 0.72%

Run 5: Report of SReAM — Data Link

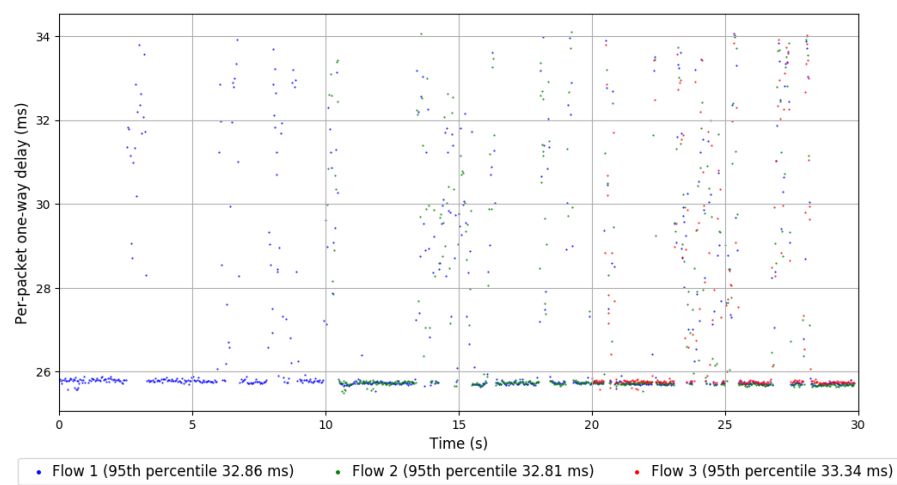
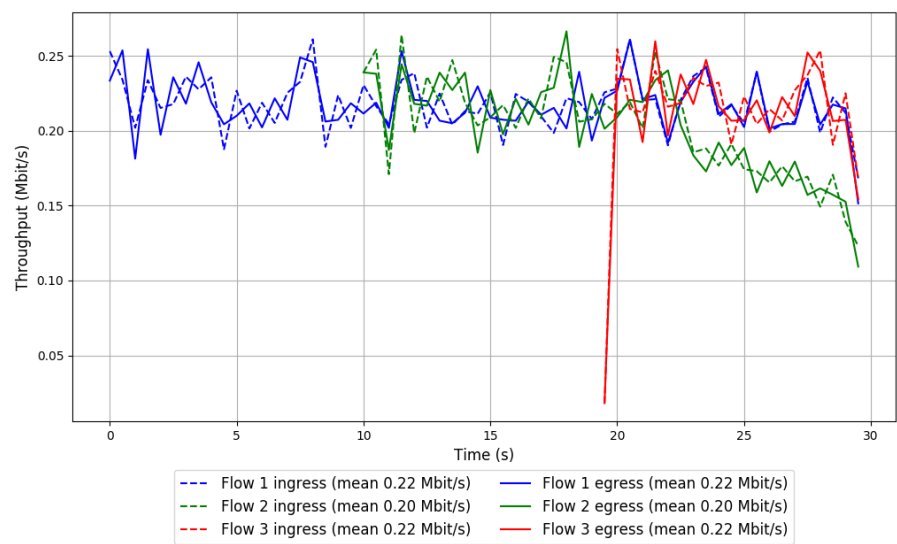


Run 6: Statistics of SReAM

Start at: 2017-12-11 21:55:30
End at: 2017-12-11 21:56:00
Local clock offset: 0.103 ms
Remote clock offset: -1.242 ms

Below is generated by plot.py at 2017-12-12 03:24:32
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 32.944 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 32.858 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 0.20 Mbit/s
95th percentile per-packet one-way delay: 32.807 ms
Loss rate: 0.40%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 33.338 ms
Loss rate: 0.71%

Run 6: Report of SReAM — Data Link

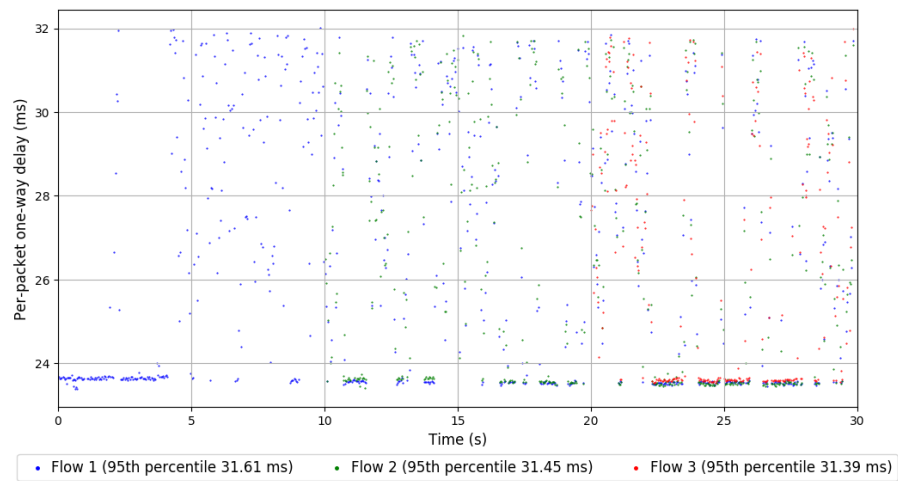
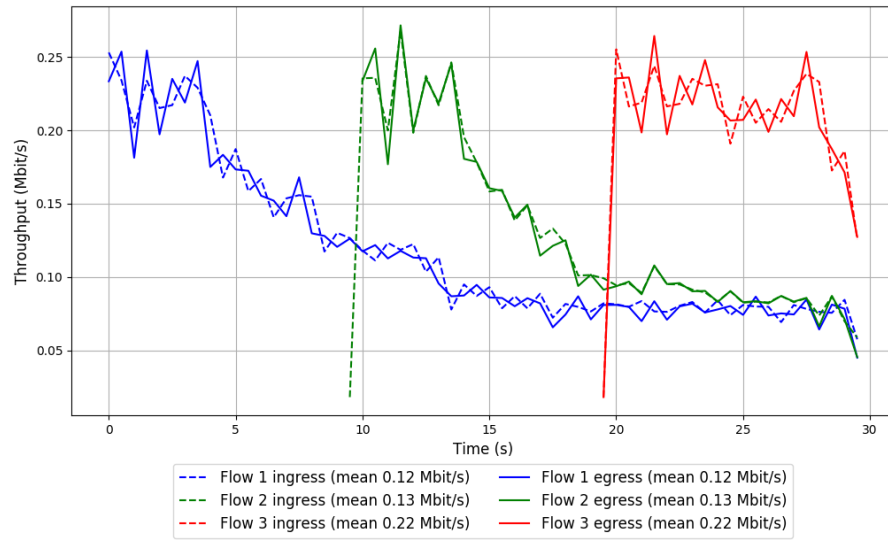


Run 7: Statistics of SReAM

Start at: 2017-12-11 22:16:31
End at: 2017-12-11 22:17:01
Local clock offset: -0.108 ms
Remote clock offset: 1.036 ms

Below is generated by plot.py at 2017-12-12 03:24:32
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.28 Mbit/s
95th percentile per-packet one-way delay: 31.514 ms
Loss rate: 1.37%
-- Flow 1:
Average throughput: 0.12 Mbit/s
95th percentile per-packet one-way delay: 31.610 ms
Loss rate: 1.58%
-- Flow 2:
Average throughput: 0.13 Mbit/s
95th percentile per-packet one-way delay: 31.453 ms
Loss rate: 1.59%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 31.393 ms
Loss rate: 0.73%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2017-12-11 22:37:45

End at: 2017-12-11 22:38:15

Local clock offset: -0.635 ms

Remote clock offset: 1.284 ms

Below is generated by plot.py at 2017-12-12 03:24:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.25 Mbit/s

95th percentile per-packet one-way delay: 31.802 ms

Loss rate: 1.49%

-- Flow 1:

Average throughput: 0.13 Mbit/s

95th percentile per-packet one-way delay: 31.781 ms

Loss rate: 1.32%

-- Flow 2:

Average throughput: 0.10 Mbit/s

95th percentile per-packet one-way delay: 31.771 ms

Loss rate: 1.45%

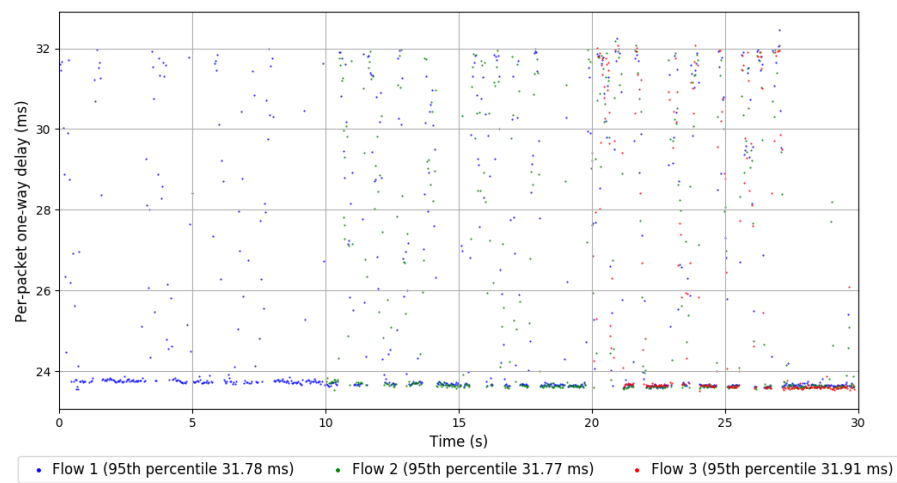
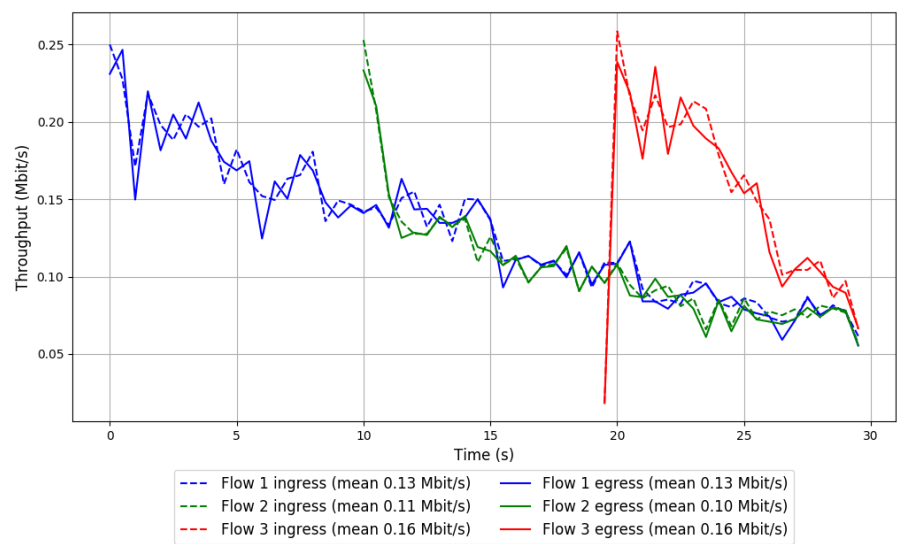
-- Flow 3:

Average throughput: 0.16 Mbit/s

95th percentile per-packet one-way delay: 31.907 ms

Loss rate: 1.96%

Run 8: Report of SReAM — Data Link

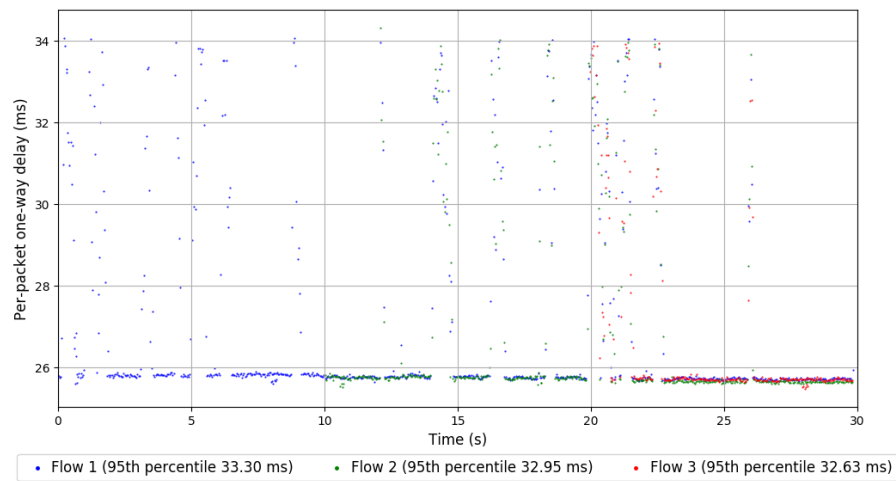
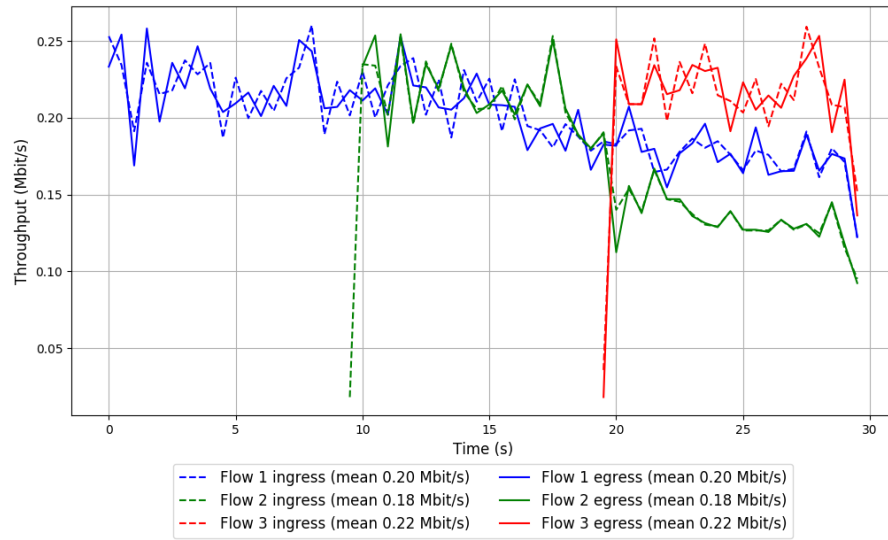


Run 9: Statistics of SReAM

Start at: 2017-12-11 22:58:53
End at: 2017-12-11 22:59:23
Local clock offset: -0.728 ms
Remote clock offset: -0.224 ms

Below is generated by plot.py at 2017-12-12 03:24:32
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.39 Mbit/s
95th percentile per-packet one-way delay: 33.172 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.20 Mbit/s
95th percentile per-packet one-way delay: 33.300 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 32.952 ms
Loss rate: 0.61%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 32.631 ms
Loss rate: 0.36%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2017-12-11 23:19:14

End at: 2017-12-11 23:19:44

Local clock offset: -0.413 ms

Remote clock offset: 0.099 ms

Below is generated by plot.py at 2017-12-12 03:24:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.34 Mbit/s

95th percentile per-packet one-way delay: 33.168 ms

Loss rate: 0.54%

-- Flow 1:

Average throughput: 0.15 Mbit/s

95th percentile per-packet one-way delay: 32.988 ms

Loss rate: 0.71%

-- Flow 2:

Average throughput: 0.17 Mbit/s

95th percentile per-packet one-way delay: 33.309 ms

Loss rate: 0.44%

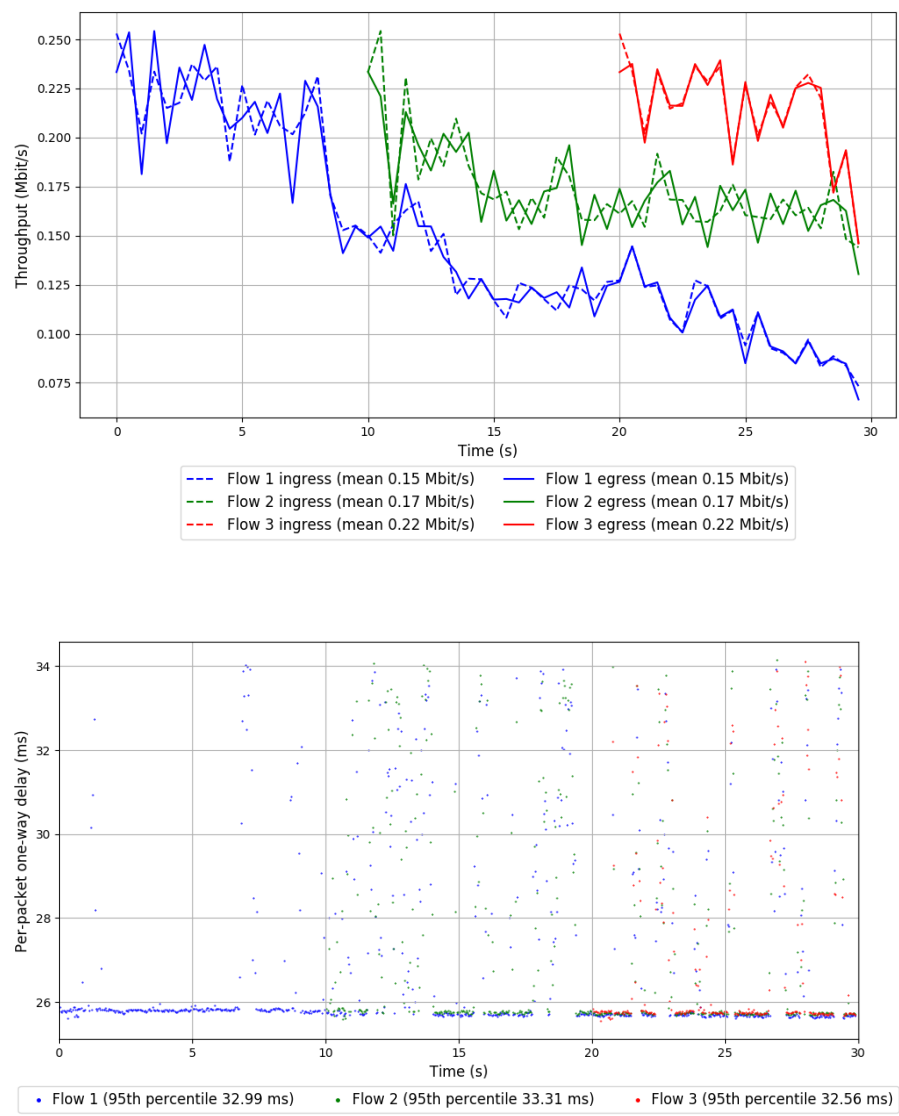
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 32.562 ms

Loss rate: 0.35%

Run 10: Report of SReAM — Data Link

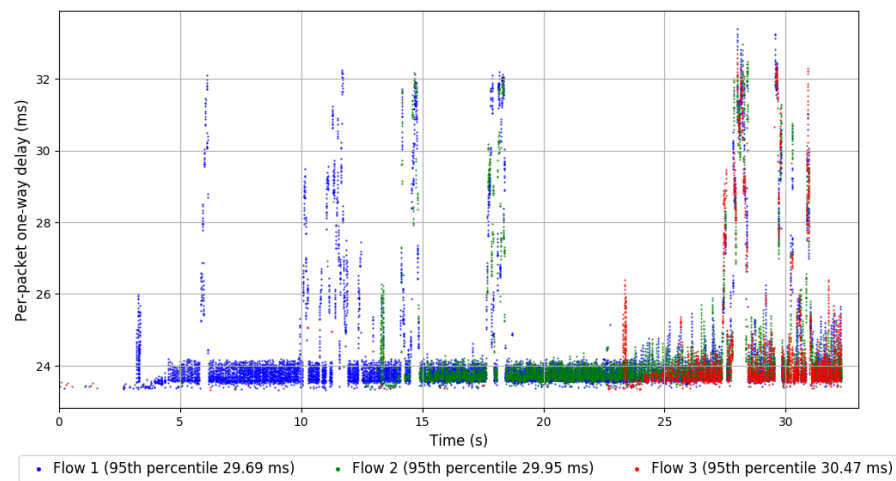
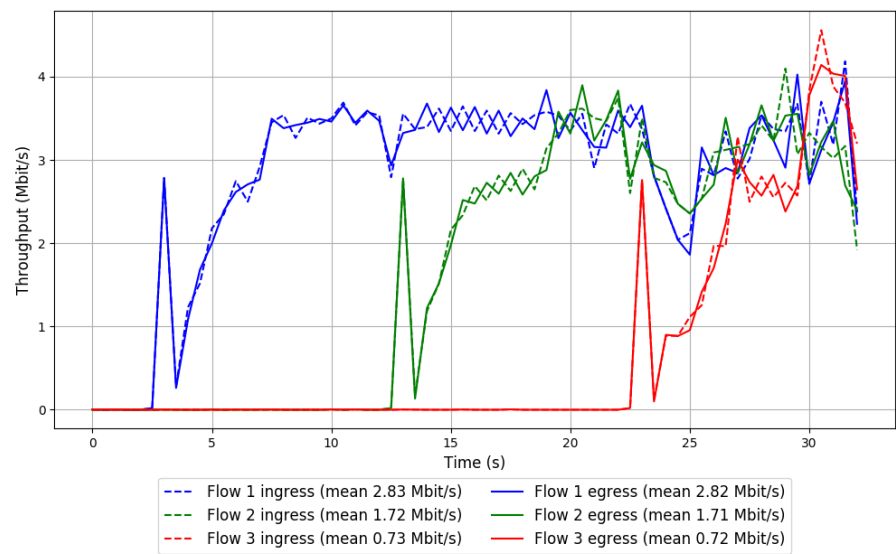


Run 1: Statistics of WebRTC media

Start at: 2017-12-11 19:59:31
End at: 2017-12-11 20:00:01
Local clock offset: -0.975 ms
Remote clock offset: -3.313 ms

Below is generated by plot.py at 2017-12-12 03:24:32
Datalink statistics
-- Total of 3 flows:
Average throughput: 5.24 Mbit/s
95th percentile per-packet one-way delay: 29.937 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 2.82 Mbit/s
95th percentile per-packet one-way delay: 29.686 ms
Loss rate: 0.60%
-- Flow 2:
Average throughput: 1.71 Mbit/s
95th percentile per-packet one-way delay: 29.951 ms
Loss rate: 0.28%
-- Flow 3:
Average throughput: 0.72 Mbit/s
95th percentile per-packet one-way delay: 30.468 ms
Loss rate: 1.69%

Run 1: Report of WebRTC media — Data Link

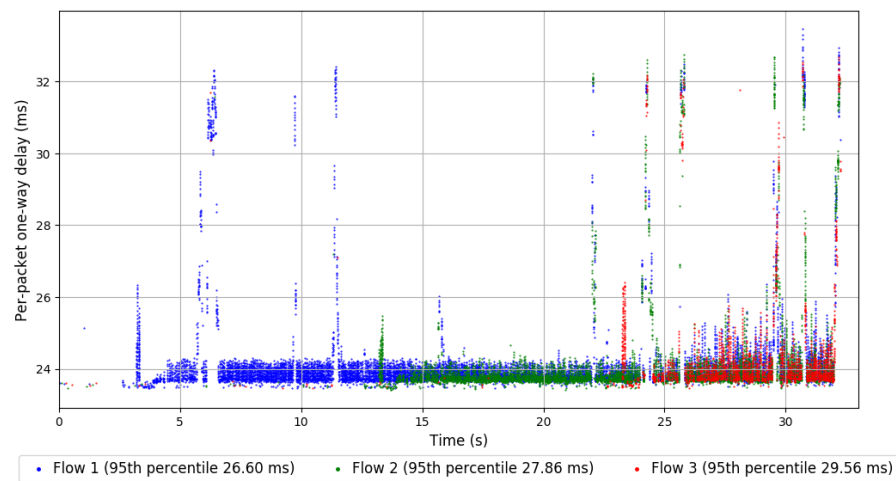
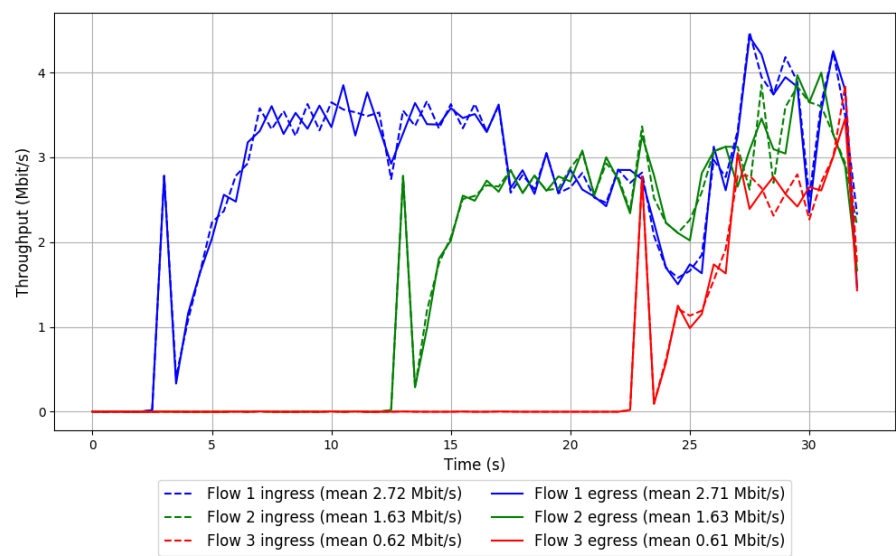


Run 2: Statistics of WebRTC media

Start at: 2017-12-11 20:18:57
End at: 2017-12-11 20:19:27
Local clock offset: -1.276 ms
Remote clock offset: -2.974 ms

Below is generated by plot.py at 2017-12-12 03:24:32
Datalink statistics
-- Total of 3 flows:
Average throughput: 4.94 Mbit/s
95th percentile per-packet one-way delay: 27.460 ms
Loss rate: 0.83%
-- Flow 1:
Average throughput: 2.71 Mbit/s
95th percentile per-packet one-way delay: 26.604 ms
Loss rate: 0.69%
-- Flow 2:
Average throughput: 1.63 Mbit/s
95th percentile per-packet one-way delay: 27.865 ms
Loss rate: 0.63%
-- Flow 3:
Average throughput: 0.61 Mbit/s
95th percentile per-packet one-way delay: 29.559 ms
Loss rate: 1.98%

Run 2: Report of WebRTC media — Data Link

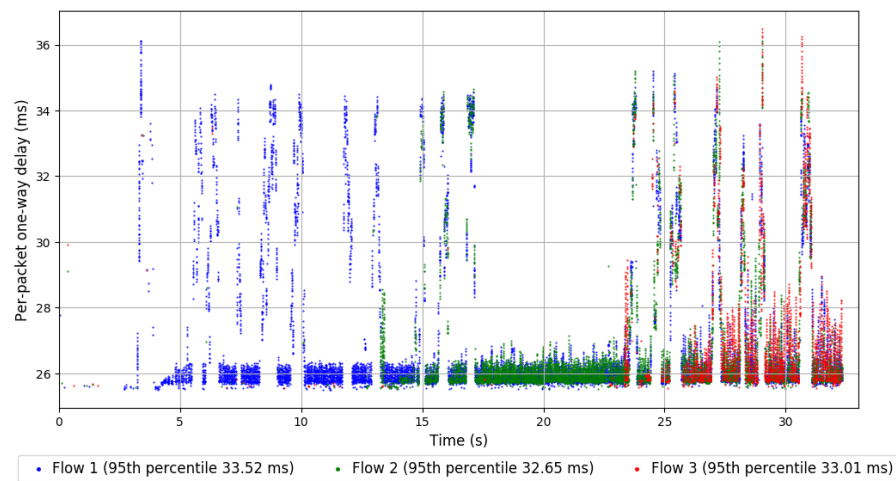
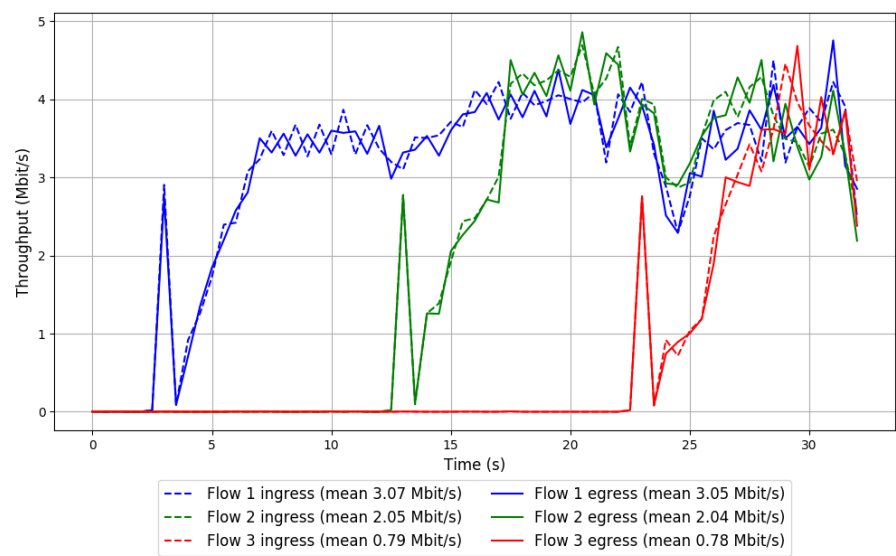


Run 3: Statistics of WebRTC media

Start at: 2017-12-11 20:38:52
End at: 2017-12-11 20:39:22
Local clock offset: -1.376 ms
Remote clock offset: -4.912 ms

Below is generated by plot.py at 2017-12-12 03:24:32
Datalink statistics
-- Total of 3 flows:
Average throughput: 5.85 Mbit/s
95th percentile per-packet one-way delay: 33.265 ms
Loss rate: 0.97%
-- Flow 1:
Average throughput: 3.05 Mbit/s
95th percentile per-packet one-way delay: 33.524 ms
Loss rate: 0.94%
-- Flow 2:
Average throughput: 2.04 Mbit/s
95th percentile per-packet one-way delay: 32.651 ms
Loss rate: 0.73%
-- Flow 3:
Average throughput: 0.78 Mbit/s
95th percentile per-packet one-way delay: 33.012 ms
Loss rate: 1.74%

Run 3: Report of WebRTC media — Data Link

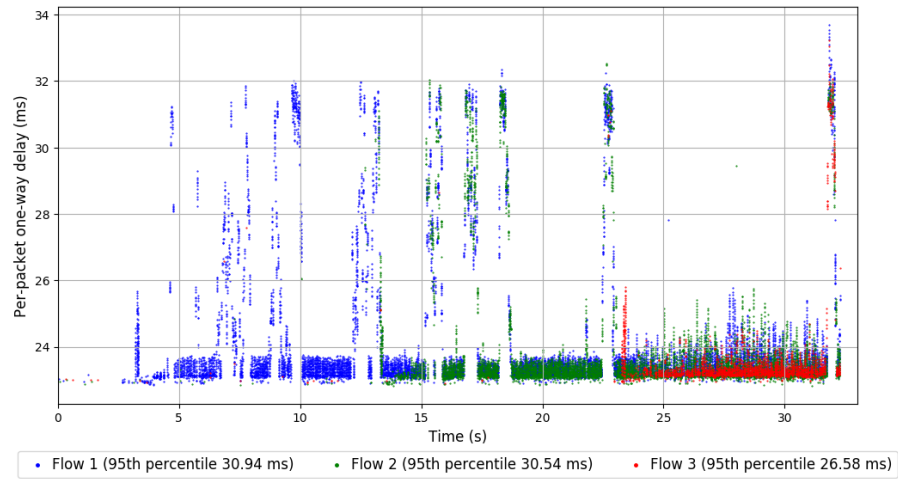
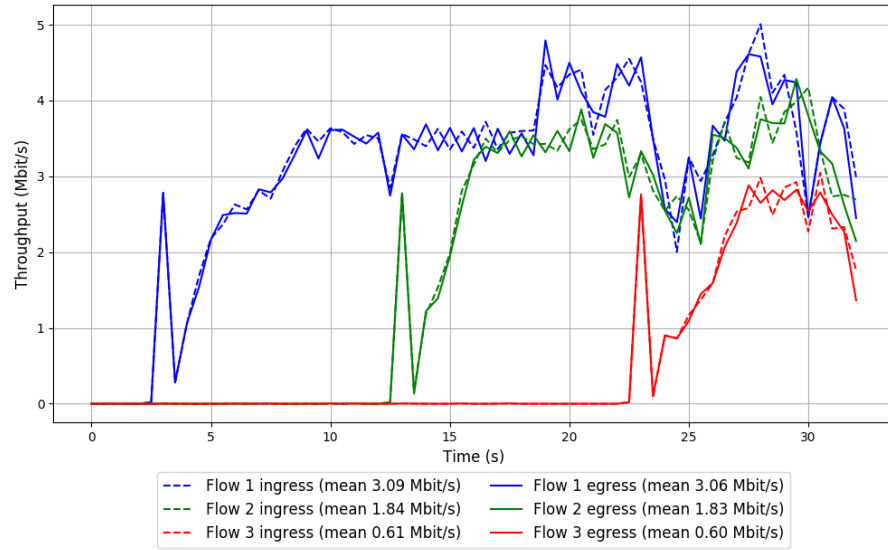


Run 4: Statistics of WebRTC media

Start at: 2017-12-11 20:58:40
End at: 2017-12-11 20:59:10
Local clock offset: -1.057 ms
Remote clock offset: -1.323 ms

Below is generated by plot.py at 2017-12-12 03:24:32
Datalink statistics
-- Total of 3 flows:
Average throughput: 5.49 Mbit/s
95th percentile per-packet one-way delay: 30.765 ms
Loss rate: 1.05%
-- Flow 1:
Average throughput: 3.06 Mbit/s
95th percentile per-packet one-way delay: 30.944 ms
Loss rate: 1.01%
-- Flow 2:
Average throughput: 1.83 Mbit/s
95th percentile per-packet one-way delay: 30.544 ms
Loss rate: 0.99%
-- Flow 3:
Average throughput: 0.60 Mbit/s
95th percentile per-packet one-way delay: 26.583 ms
Loss rate: 1.37%

Run 4: Report of WebRTC media — Data Link

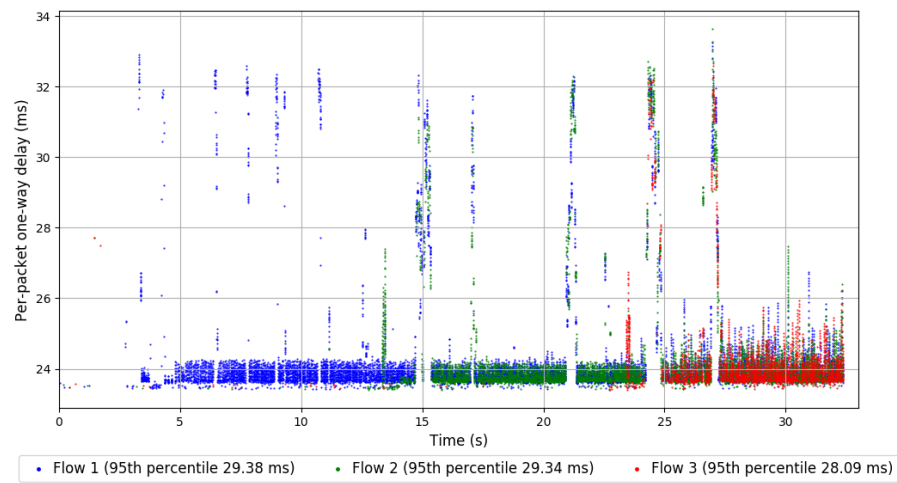
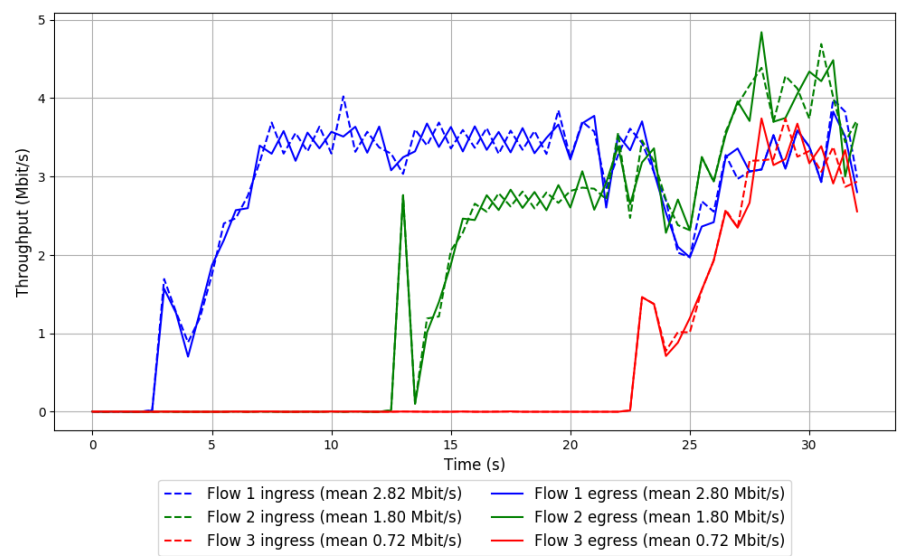


Run 5: Statistics of WebRTC media

Start at: 2017-12-11 21:18:36
End at: 2017-12-11 21:19:06
Local clock offset: -0.594 ms
Remote clock offset: -0.742 ms

Below is generated by plot.py at 2017-12-12 03:24:32
Datalink statistics
-- Total of 3 flows:
Average throughput: 5.30 Mbit/s
95th percentile per-packet one-way delay: 29.216 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 2.80 Mbit/s
95th percentile per-packet one-way delay: 29.382 ms
Loss rate: 0.86%
-- Flow 2:
Average throughput: 1.80 Mbit/s
95th percentile per-packet one-way delay: 29.345 ms
Loss rate: 0.66%
-- Flow 3:
Average throughput: 0.72 Mbit/s
95th percentile per-packet one-way delay: 28.093 ms
Loss rate: 0.90%

Run 5: Report of WebRTC media — Data Link

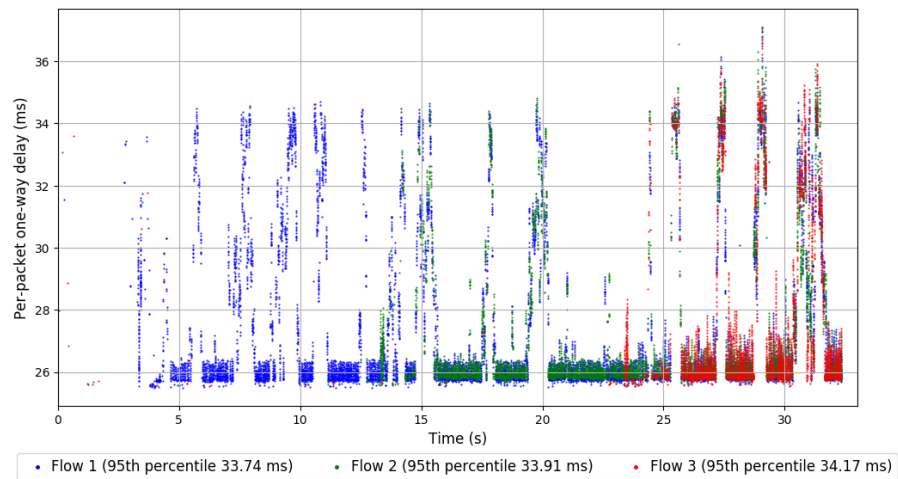
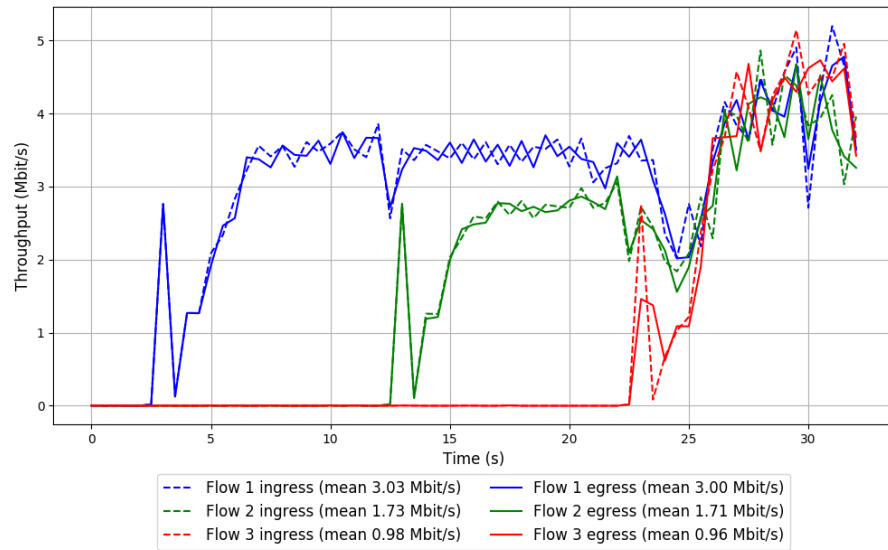


Run 6: Statistics of WebRTC media

Start at: 2017-12-11 21:39:15
End at: 2017-12-11 21:39:45
Local clock offset: -0.198 ms
Remote clock offset: -1.841 ms

Below is generated by plot.py at 2017-12-12 03:24:32
Datalink statistics
-- Total of 3 flows:
Average throughput: 5.65 Mbit/s
95th percentile per-packet one-way delay: 33.881 ms
Loss rate: 1.39%
-- Flow 1:
Average throughput: 3.00 Mbit/s
95th percentile per-packet one-way delay: 33.737 ms
Loss rate: 1.06%
-- Flow 2:
Average throughput: 1.71 Mbit/s
95th percentile per-packet one-way delay: 33.910 ms
Loss rate: 1.45%
-- Flow 3:
Average throughput: 0.96 Mbit/s
95th percentile per-packet one-way delay: 34.175 ms
Loss rate: 2.33%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2017-12-11 21:59:37

End at: 2017-12-11 22:00:07

Local clock offset: 0.103 ms

Remote clock offset: 0.98 ms

Below is generated by plot.py at 2017-12-12 03:24:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 5.72 Mbit/s

95th percentile per-packet one-way delay: 31.153 ms

Loss rate: 0.58%

-- Flow 1:

Average throughput: 3.29 Mbit/s

95th percentile per-packet one-way delay: 31.249 ms

Loss rate: 0.59%

-- Flow 2:

Average throughput: 1.81 Mbit/s

95th percentile per-packet one-way delay: 31.142 ms

Loss rate: 0.76%

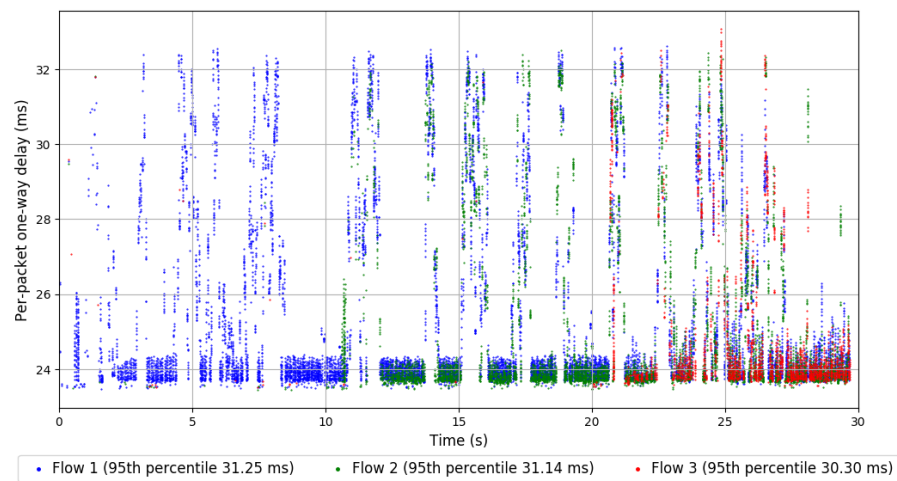
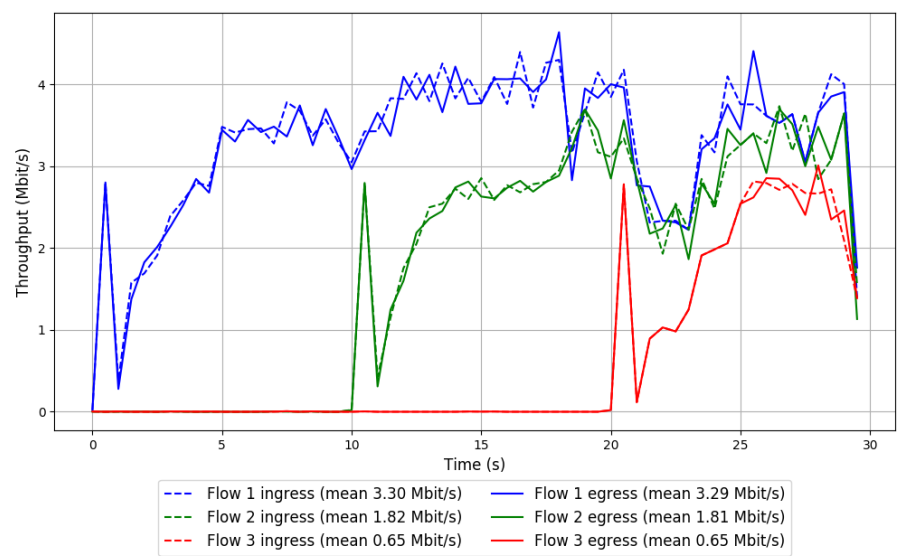
-- Flow 3:

Average throughput: 0.65 Mbit/s

95th percentile per-packet one-way delay: 30.299 ms

Loss rate: 0.01%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2017-12-11 22:20:47

End at: 2017-12-11 22:21:17

Local clock offset: -0.121 ms

Remote clock offset: 1.043 ms

Below is generated by plot.py at 2017-12-12 03:24:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 5.51 Mbit/s

95th percentile per-packet one-way delay: 31.370 ms

Loss rate: 1.11%

-- Flow 1:

Average throughput: 2.86 Mbit/s

95th percentile per-packet one-way delay: 31.513 ms

Loss rate: 0.84%

-- Flow 2:

Average throughput: 1.83 Mbit/s

95th percentile per-packet one-way delay: 31.385 ms

Loss rate: 1.24%

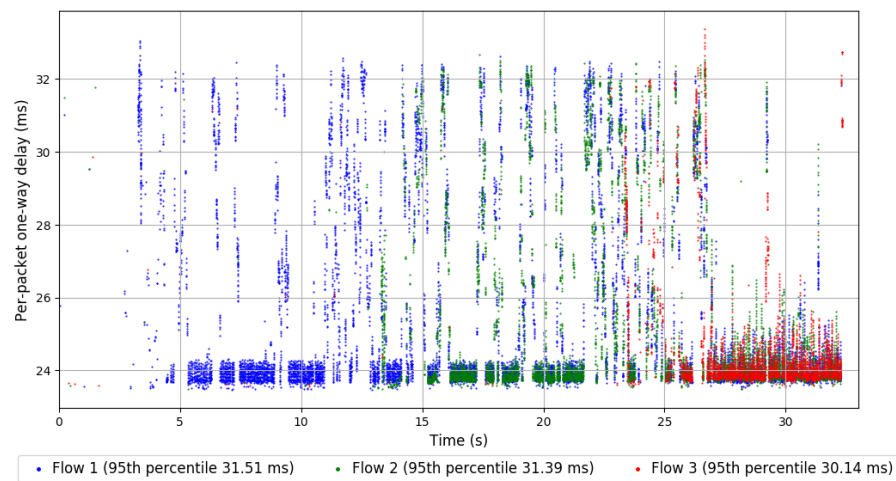
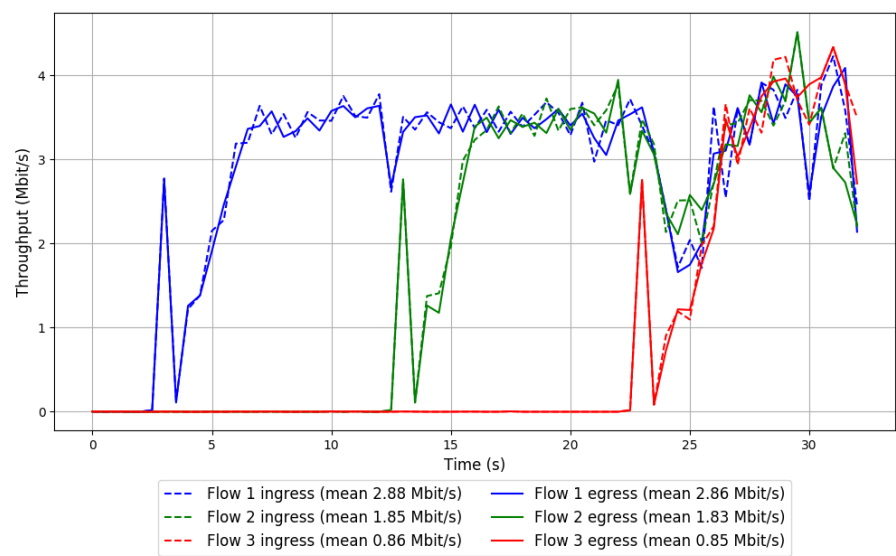
-- Flow 3:

Average throughput: 0.85 Mbit/s

95th percentile per-packet one-way delay: 30.137 ms

Loss rate: 1.75%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2017-12-11 22:41:53

End at: 2017-12-11 22:42:23

Local clock offset: -0.612 ms

Remote clock offset: 1.944 ms

Below is generated by plot.py at 2017-12-12 03:24:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 5.86 Mbit/s

95th percentile per-packet one-way delay: 31.682 ms

Loss rate: 2.57%

-- Flow 1:

Average throughput: 3.28 Mbit/s

95th percentile per-packet one-way delay: 31.724 ms

Loss rate: 2.53%

-- Flow 2:

Average throughput: 2.03 Mbit/s

95th percentile per-packet one-way delay: 31.629 ms

Loss rate: 2.57%

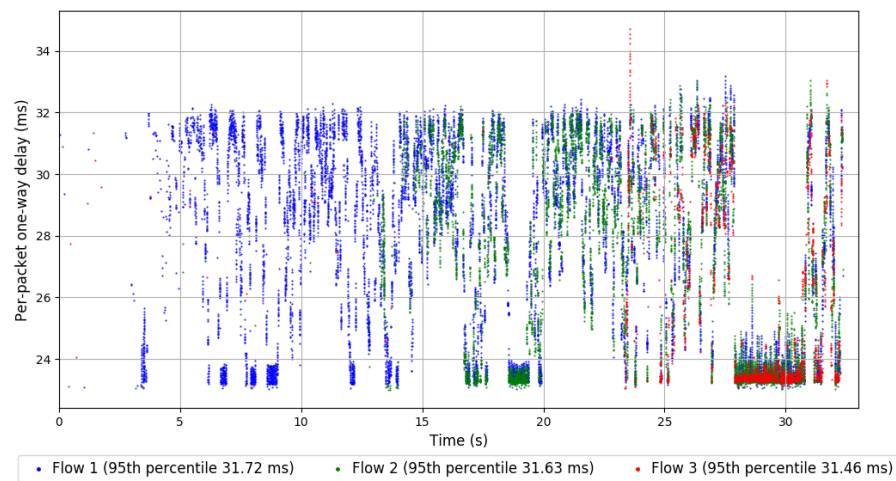
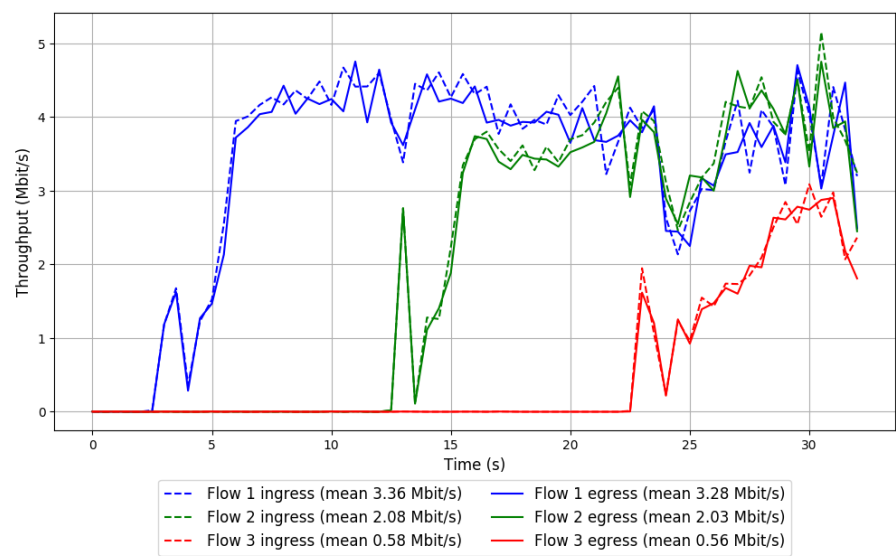
-- Flow 3:

Average throughput: 0.56 Mbit/s

95th percentile per-packet one-way delay: 31.465 ms

Loss rate: 2.81%

Run 9: Report of WebRTC media — Data Link

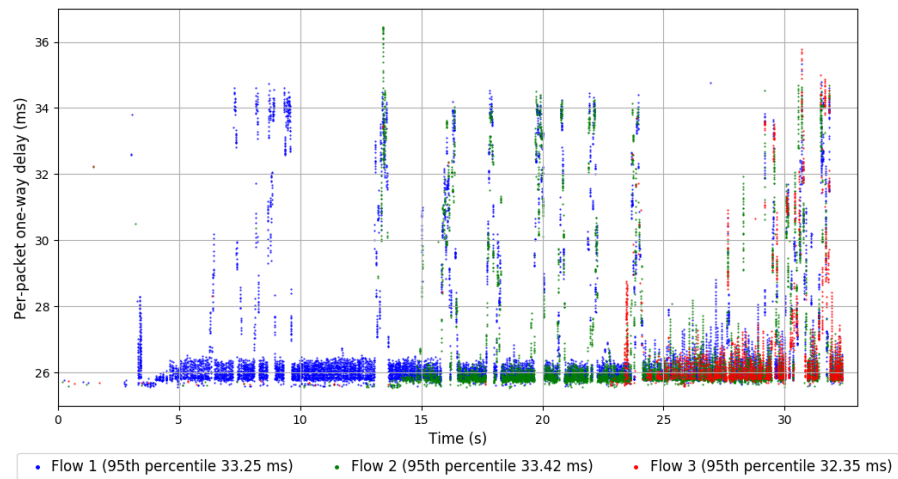
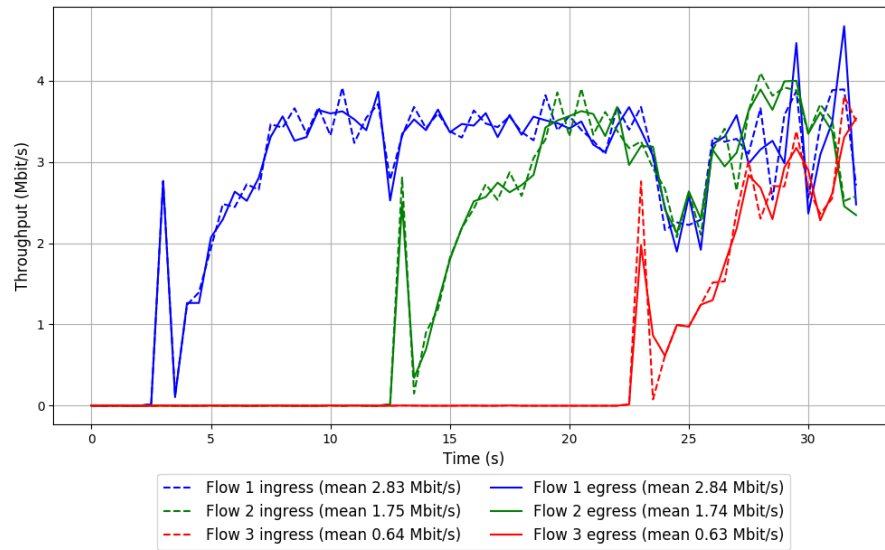


Run 10: Statistics of WebRTC media

Start at: 2017-12-11 23:03:03
End at: 2017-12-11 23:03:33
Local clock offset: -0.603 ms
Remote clock offset: -0.113 ms

Below is generated by plot.py at 2017-12-12 03:24:32
Datalink statistics
-- Total of 3 flows:
Average throughput: 5.20 Mbit/s
95th percentile per-packet one-way delay: 33.263 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 2.84 Mbit/s
95th percentile per-packet one-way delay: 33.249 ms
Loss rate: 0.58%
-- Flow 2:
Average throughput: 1.74 Mbit/s
95th percentile per-packet one-way delay: 33.423 ms
Loss rate: 1.00%
-- Flow 3:
Average throughput: 0.63 Mbit/s
95th percentile per-packet one-way delay: 32.355 ms
Loss rate: 1.58%

Run 10: Report of WebRTC media — Data Link

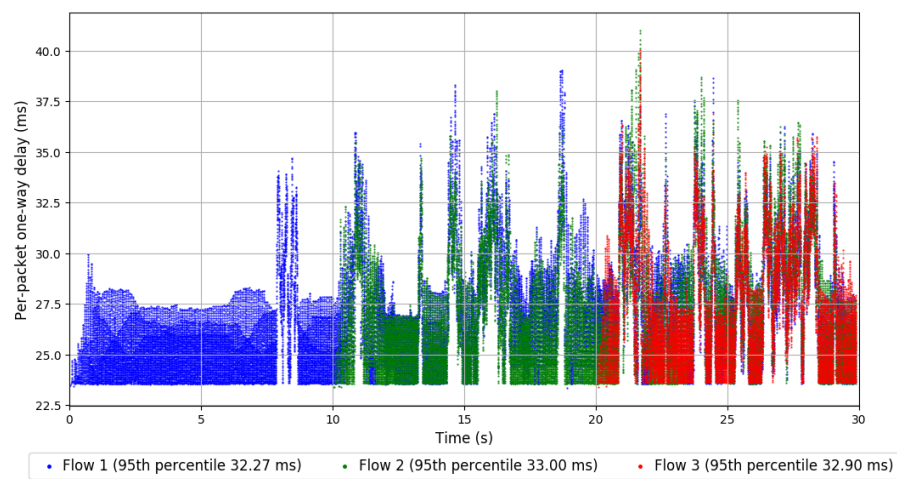
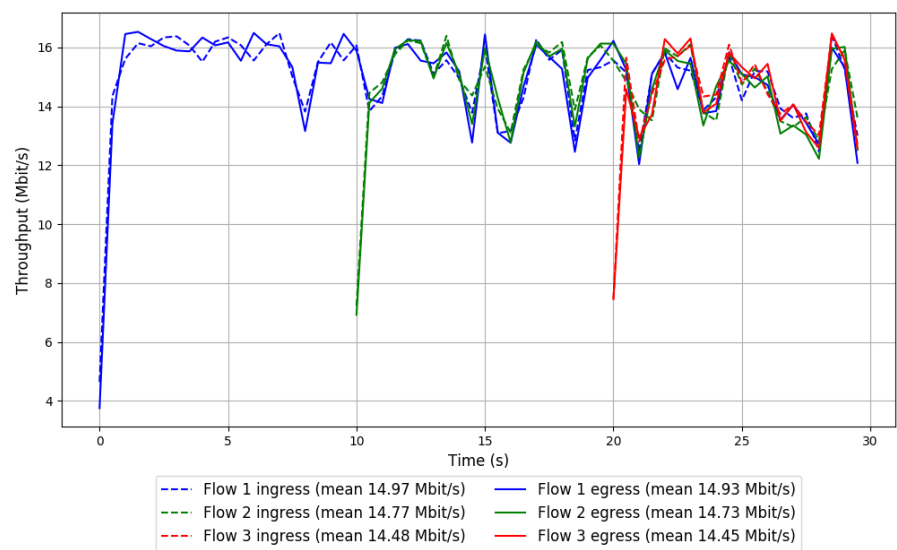


Run 1: Statistics of Sprout

Start at: 2017-12-11 19:56:52
End at: 2017-12-11 19:57:22
Local clock offset: -0.906 ms
Remote clock offset: -3.326 ms

Below is generated by plot.py at 2017-12-12 03:24:49
Datalink statistics
-- Total of 3 flows:
Average throughput: 29.47 Mbit/s
95th percentile per-packet one-way delay: 32.649 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 14.93 Mbit/s
95th percentile per-packet one-way delay: 32.273 ms
Loss rate: 0.46%
-- Flow 2:
Average throughput: 14.73 Mbit/s
95th percentile per-packet one-way delay: 33.004 ms
Loss rate: 0.58%
-- Flow 3:
Average throughput: 14.45 Mbit/s
95th percentile per-packet one-way delay: 32.895 ms
Loss rate: 0.61%

Run 1: Report of Sprout — Data Link

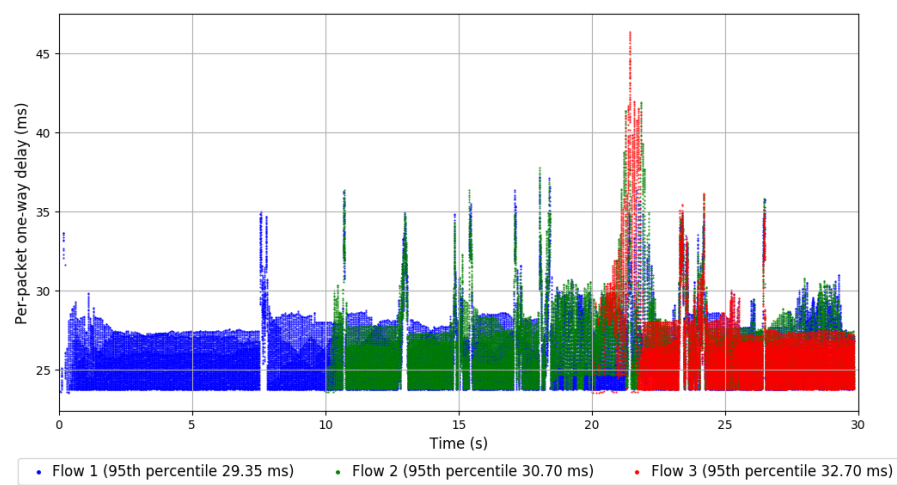
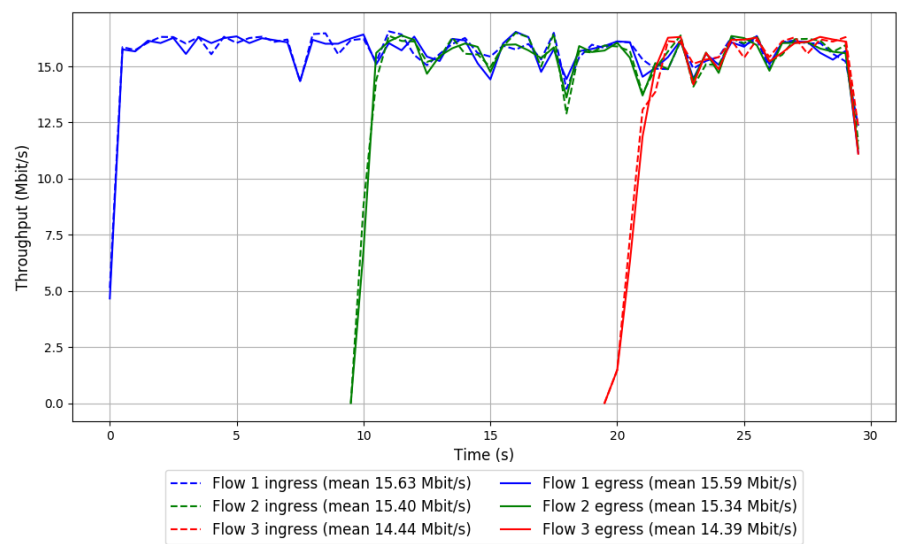


Run 2: Statistics of Sprout

Start at: 2017-12-11 20:16:13
End at: 2017-12-11 20:16:43
Local clock offset: -1.257 ms
Remote clock offset: -3.149 ms

Below is generated by plot.py at 2017-12-12 03:24:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 30.54 Mbit/s
95th percentile per-packet one-way delay: 30.278 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 15.59 Mbit/s
95th percentile per-packet one-way delay: 29.346 ms
Loss rate: 0.45%
-- Flow 2:
Average throughput: 15.34 Mbit/s
95th percentile per-packet one-way delay: 30.704 ms
Loss rate: 0.55%
-- Flow 3:
Average throughput: 14.39 Mbit/s
95th percentile per-packet one-way delay: 32.696 ms
Loss rate: 0.93%

Run 2: Report of Sprout — Data Link

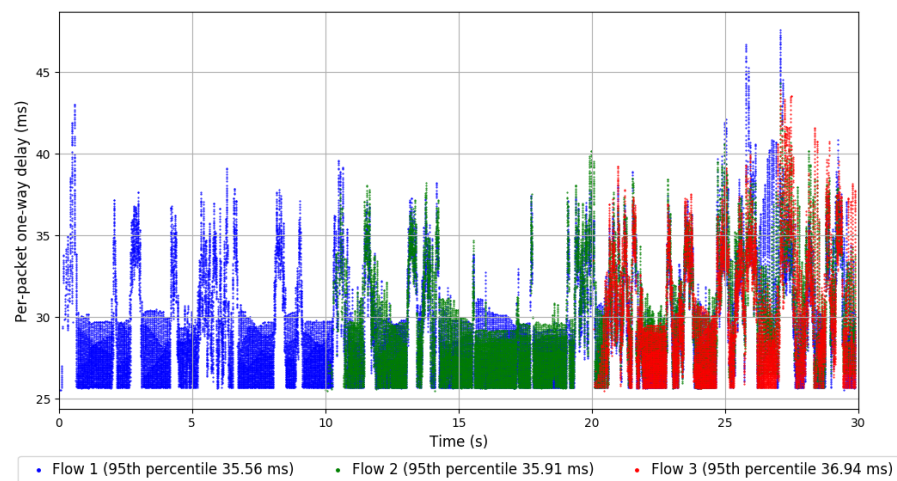
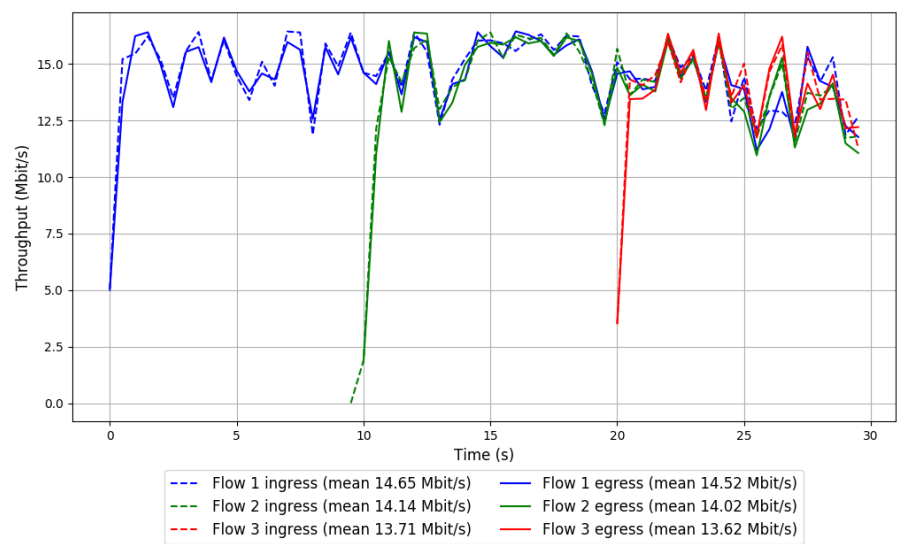


Run 3: Statistics of Sprout

Start at: 2017-12-11 20:35:58
End at: 2017-12-11 20:36:28
Local clock offset: -1.4 ms
Remote clock offset: -4.816 ms

```
# Below is generated by plot.py at 2017-12-12 03:24:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 28.34 Mbit/s
95th percentile per-packet one-way delay: 35.929 ms
Loss rate: 1.03%
-- Flow 1:
Average throughput: 14.52 Mbit/s
95th percentile per-packet one-way delay: 35.557 ms
Loss rate: 0.99%
-- Flow 2:
Average throughput: 14.02 Mbit/s
95th percentile per-packet one-way delay: 35.906 ms
Loss rate: 1.06%
-- Flow 3:
Average throughput: 13.62 Mbit/s
95th percentile per-packet one-way delay: 36.944 ms
Loss rate: 1.08%
```

Run 3: Report of Sprout — Data Link

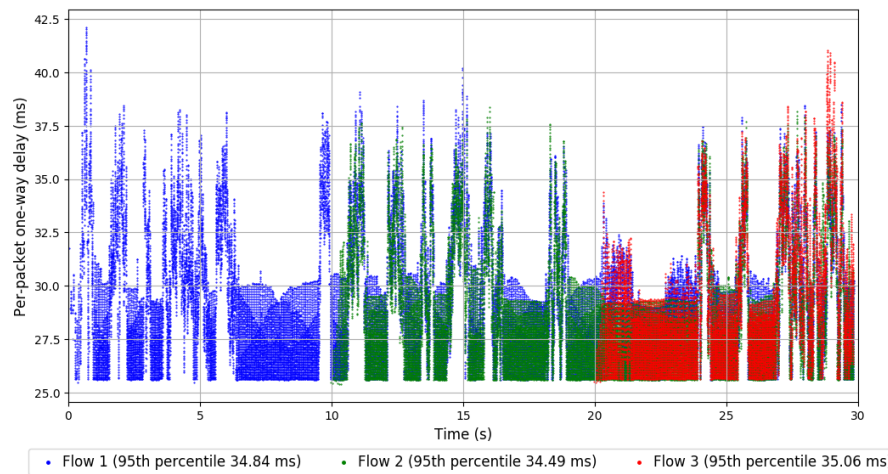
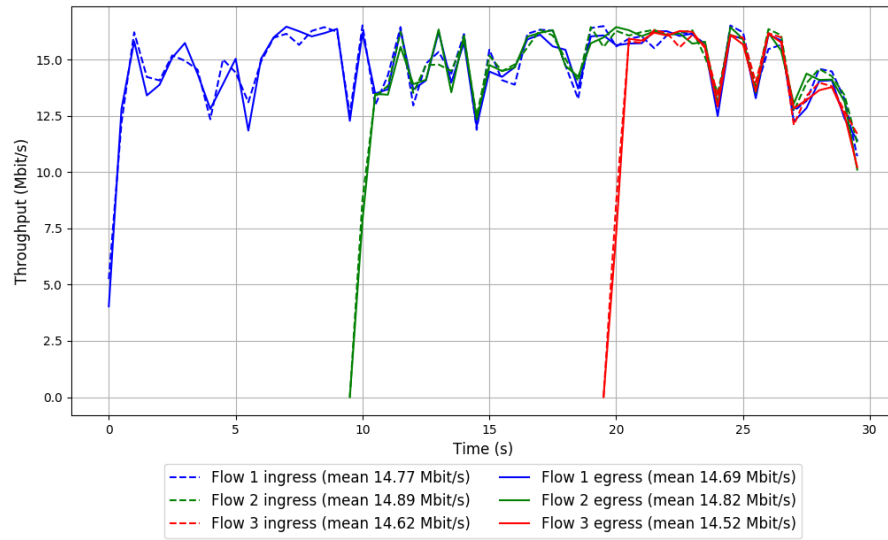


Run 4: Statistics of Sprout

Start at: 2017-12-11 20:55:50
End at: 2017-12-11 20:56:20
Local clock offset: -1.112 ms
Remote clock offset: -4.011 ms

Below is generated by plot.py at 2017-12-12 03:24:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 29.35 Mbit/s
95th percentile per-packet one-way delay: 34.771 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 14.69 Mbit/s
95th percentile per-packet one-way delay: 34.845 ms
Loss rate: 0.68%
-- Flow 2:
Average throughput: 14.82 Mbit/s
95th percentile per-packet one-way delay: 34.486 ms
Loss rate: 0.72%
-- Flow 3:
Average throughput: 14.52 Mbit/s
95th percentile per-packet one-way delay: 35.064 ms
Loss rate: 1.21%

Run 4: Report of Sprout — Data Link

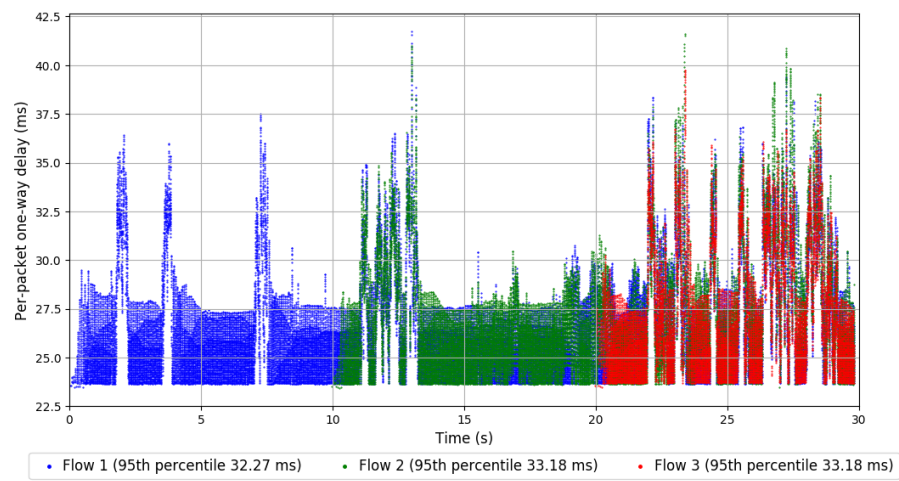
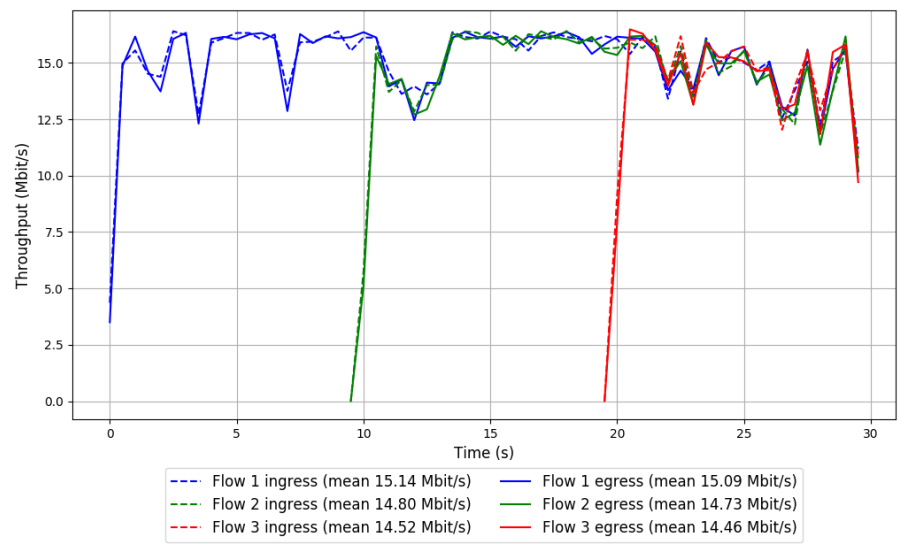


Run 5: Statistics of Sprout

Start at: 2017-12-11 21:15:48
End at: 2017-12-11 21:16:18
Local clock offset: -0.635 ms
Remote clock offset: -0.864 ms

Below is generated by plot.py at 2017-12-12 03:24:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 29.68 Mbit/s
95th percentile per-packet one-way delay: 32.747 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 15.09 Mbit/s
95th percentile per-packet one-way delay: 32.266 ms
Loss rate: 0.55%
-- Flow 2:
Average throughput: 14.73 Mbit/s
95th percentile per-packet one-way delay: 33.178 ms
Loss rate: 0.62%
-- Flow 3:
Average throughput: 14.46 Mbit/s
95th percentile per-packet one-way delay: 33.181 ms
Loss rate: 1.02%

Run 5: Report of Sprout — Data Link

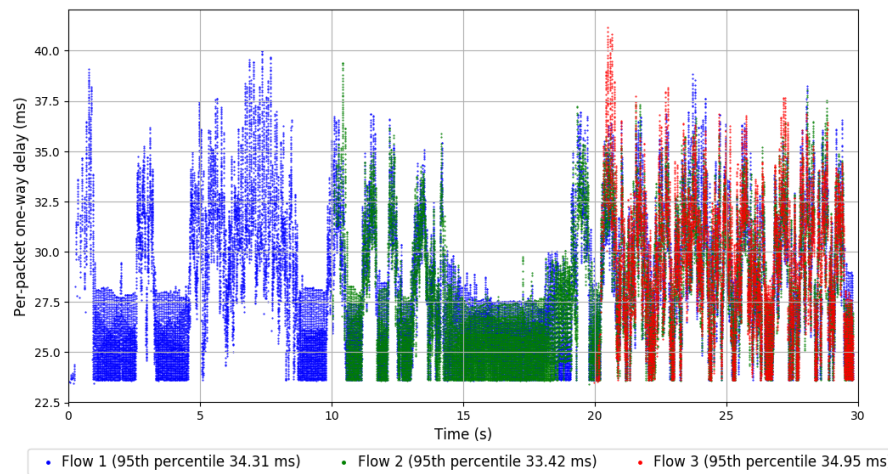
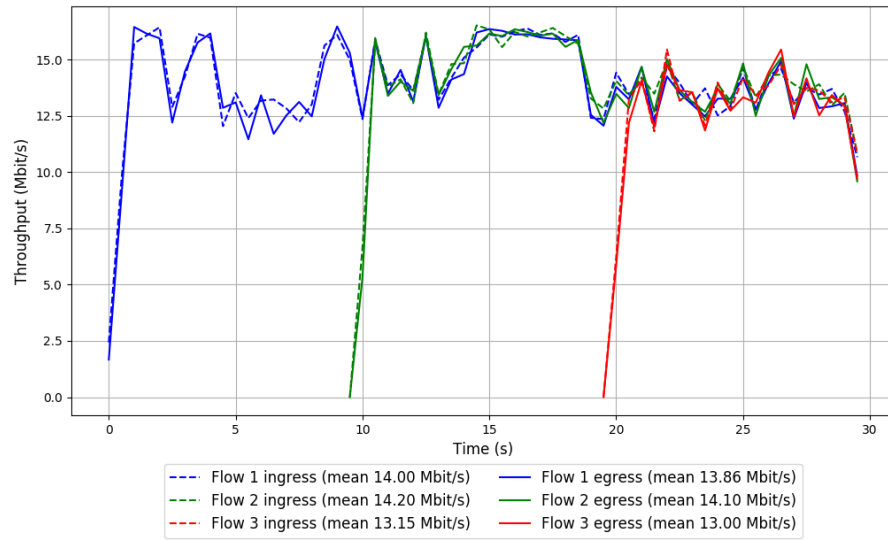


Run 6: Statistics of Sprout

Start at: 2017-12-11 21:36:23
End at: 2017-12-11 21:36:53
Local clock offset: -0.377 ms
Remote clock offset: 0.054 ms

Below is generated by plot.py at 2017-12-12 03:24:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 27.54 Mbit/s
95th percentile per-packet one-way delay: 34.113 ms
Loss rate: 1.18%
-- Flow 1:
Average throughput: 13.86 Mbit/s
95th percentile per-packet one-way delay: 34.315 ms
Loss rate: 1.15%
-- Flow 2:
Average throughput: 14.10 Mbit/s
95th percentile per-packet one-way delay: 33.423 ms
Loss rate: 0.99%
-- Flow 3:
Average throughput: 13.00 Mbit/s
95th percentile per-packet one-way delay: 34.955 ms
Loss rate: 1.70%

Run 6: Report of Sprout — Data Link

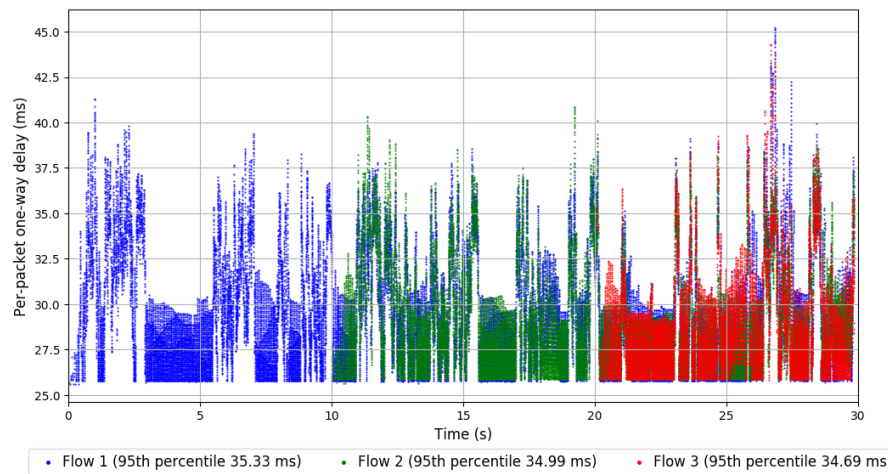
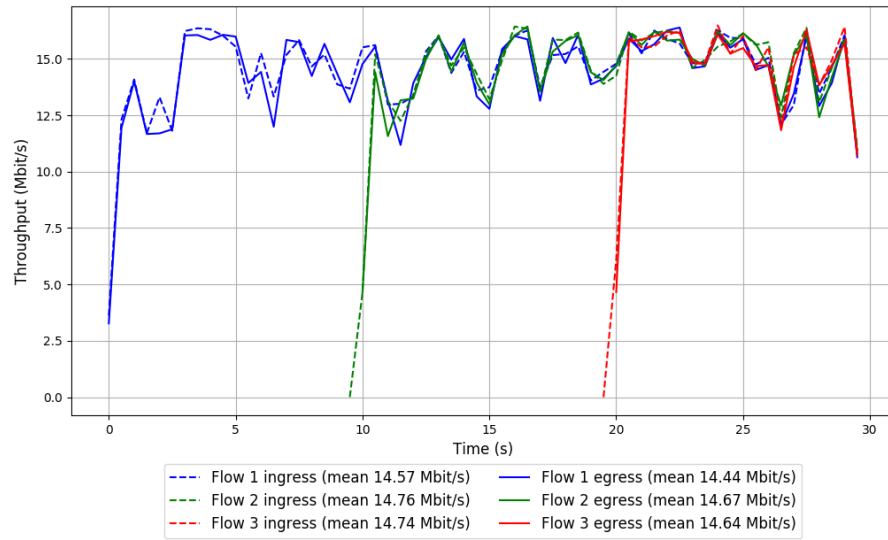


Run 7: Statistics of Sprout

Start at: 2017-12-11 21:56:47
End at: 2017-12-11 21:57:17
Local clock offset: 0.115 ms
Remote clock offset: -1.247 ms

Below is generated by plot.py at 2017-12-12 03:24:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 29.02 Mbit/s
95th percentile per-packet one-way delay: 35.140 ms
Loss rate: 1.01%
-- Flow 1:
Average throughput: 14.44 Mbit/s
95th percentile per-packet one-way delay: 35.328 ms
Loss rate: 1.06%
-- Flow 2:
Average throughput: 14.67 Mbit/s
95th percentile per-packet one-way delay: 34.995 ms
Loss rate: 0.89%
-- Flow 3:
Average throughput: 14.64 Mbit/s
95th percentile per-packet one-way delay: 34.692 ms
Loss rate: 1.12%

Run 7: Report of Sprout — Data Link

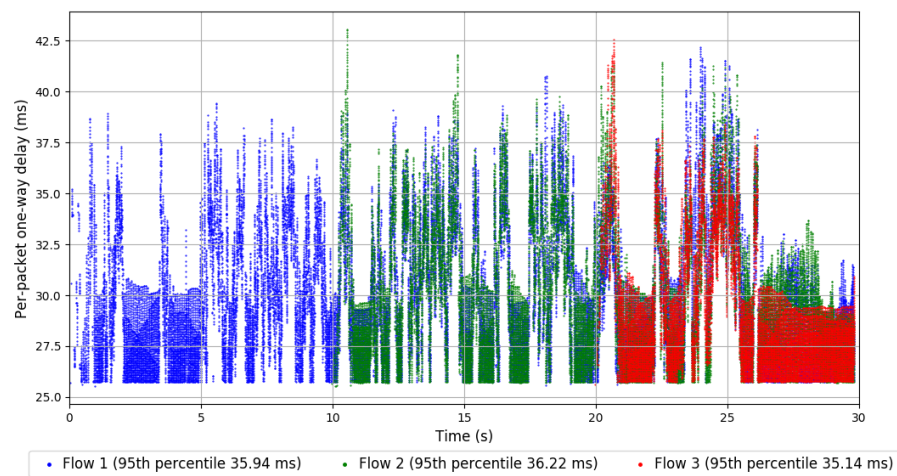
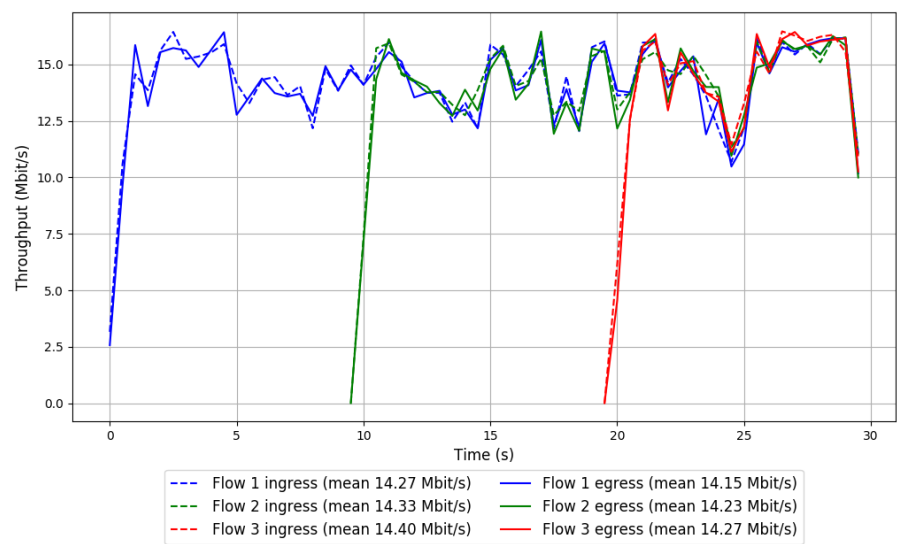


Run 8: Statistics of Sprout

Start at: 2017-12-11 22:17:49
End at: 2017-12-11 22:18:19
Local clock offset: -0.136 ms
Remote clock offset: -1.11 ms

```
# Below is generated by plot.py at 2017-12-12 03:25:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 28.34 Mbit/s
95th percentile per-packet one-way delay: 35.921 ms
Loss rate: 1.02%
-- Flow 1:
Average throughput: 14.15 Mbit/s
95th percentile per-packet one-way delay: 35.941 ms
Loss rate: 0.94%
-- Flow 2:
Average throughput: 14.23 Mbit/s
95th percentile per-packet one-way delay: 36.216 ms
Loss rate: 1.03%
-- Flow 3:
Average throughput: 14.27 Mbit/s
95th percentile per-packet one-way delay: 35.137 ms
Loss rate: 1.28%
```

Run 8: Report of Sprout — Data Link

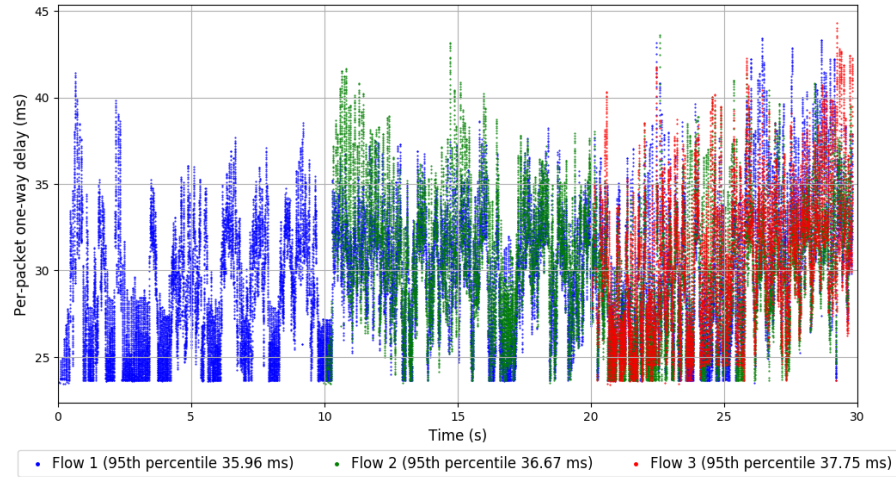
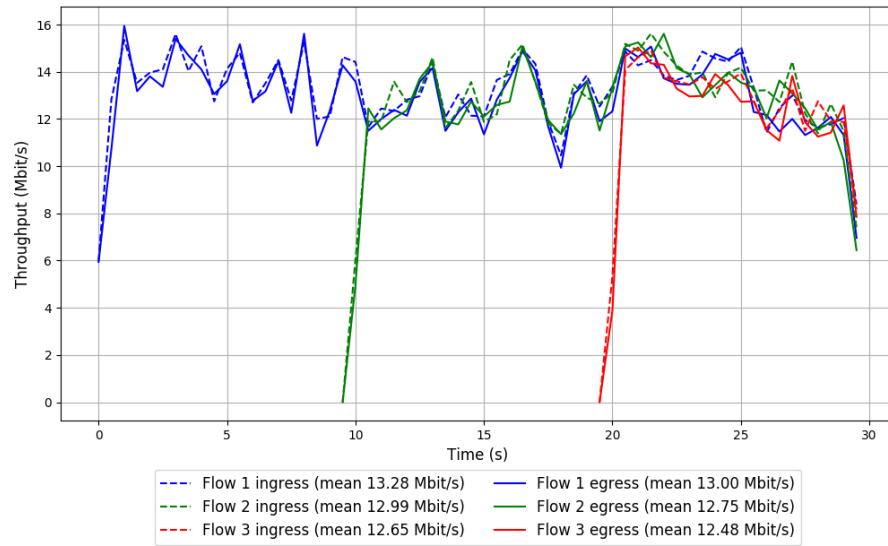


Run 9: Statistics of Sprout

Start at: 2017-12-11 22:39:02
End at: 2017-12-11 22:39:32
Local clock offset: -0.659 ms
Remote clock offset: 1.383 ms

Below is generated by plot.py at 2017-12-12 03:25:14
Datalink statistics
-- Total of 3 flows:
Average throughput: 25.61 Mbit/s
95th percentile per-packet one-way delay: 36.554 ms
Loss rate: 2.16%
-- Flow 1:
Average throughput: 13.00 Mbit/s
95th percentile per-packet one-way delay: 35.957 ms
Loss rate: 2.19%
-- Flow 2:
Average throughput: 12.75 Mbit/s
95th percentile per-packet one-way delay: 36.671 ms
Loss rate: 2.21%
-- Flow 3:
Average throughput: 12.48 Mbit/s
95th percentile per-packet one-way delay: 37.751 ms
Loss rate: 1.95%

Run 9: Report of Sprout — Data Link

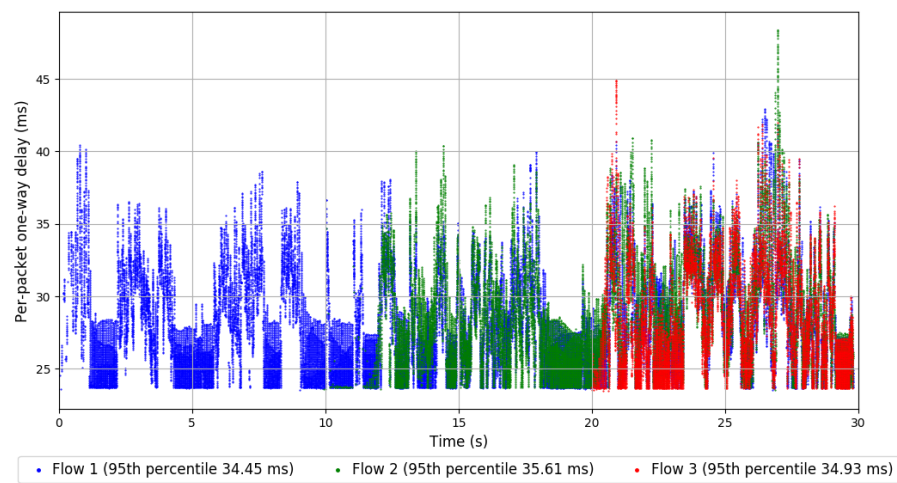
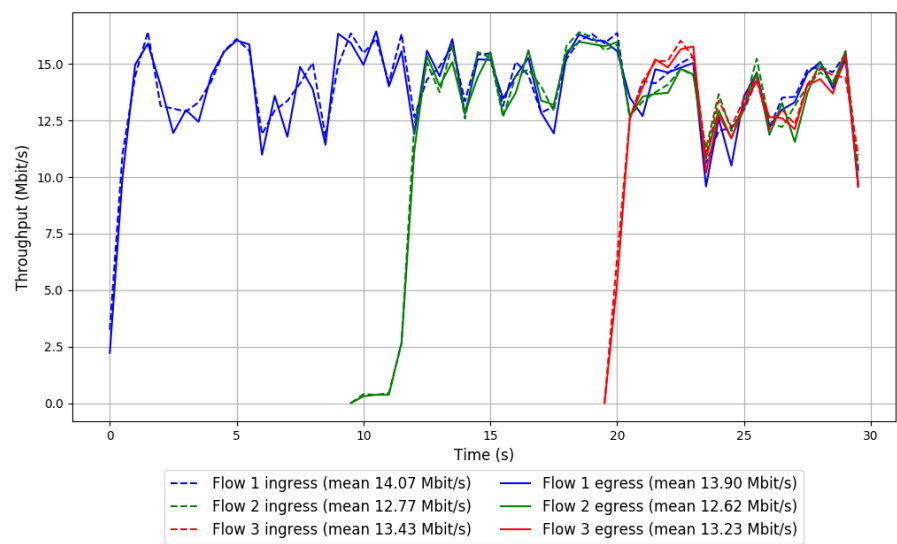


Run 10: Statistics of Sprout

Start at: 2017-12-11 23:00:11
End at: 2017-12-11 23:00:41
Local clock offset: -0.695 ms
Remote clock offset: 1.858 ms

Below is generated by plot.py at 2017-12-12 03:25:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 26.68 Mbit/s
95th percentile per-packet one-way delay: 34.899 ms
Loss rate: 1.46%
-- Flow 1:
Average throughput: 13.90 Mbit/s
95th percentile per-packet one-way delay: 34.445 ms
Loss rate: 1.33%
-- Flow 2:
Average throughput: 12.62 Mbit/s
95th percentile per-packet one-way delay: 35.614 ms
Loss rate: 1.36%
-- Flow 3:
Average throughput: 13.23 Mbit/s
95th percentile per-packet one-way delay: 34.927 ms
Loss rate: 2.08%

Run 10: Report of Sprout — Data Link

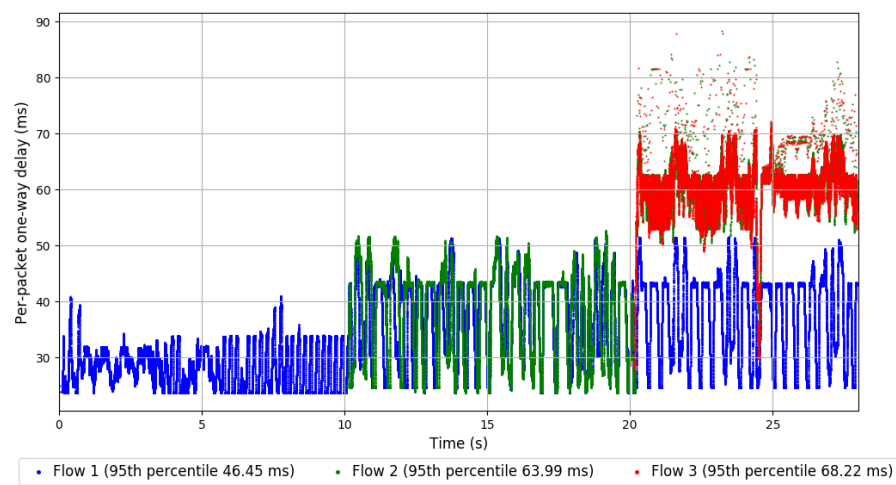
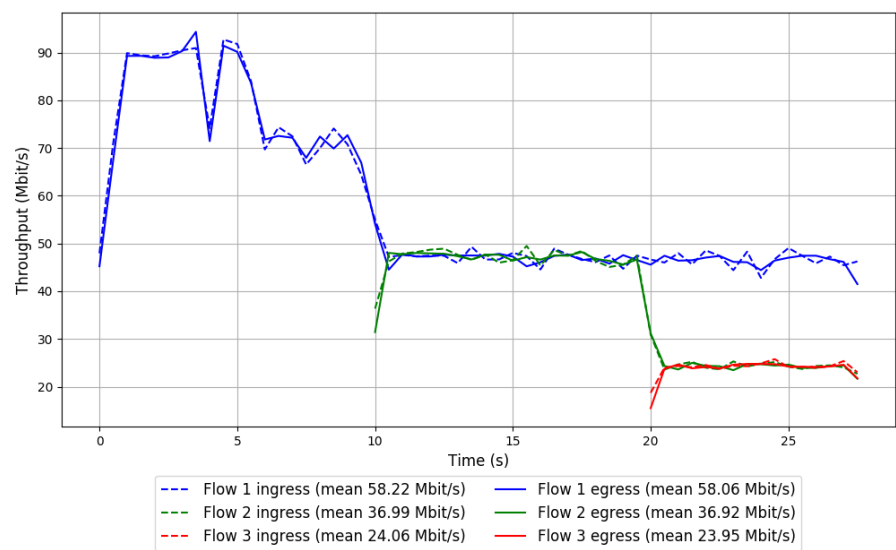


Run 1: Statistics of TaoVA-100x

Start at: 2017-12-11 20:06:21
End at: 2017-12-11 20:06:51
Local clock offset: -1.114 ms
Remote clock offset: -3.368 ms

Below is generated by plot.py at 2017-12-12 03:27:06
Datalink statistics
-- Total of 3 flows:
Average throughput: 88.50 Mbit/s
95th percentile per-packet one-way delay: 62.328 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 58.06 Mbit/s
95th percentile per-packet one-way delay: 46.453 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 36.92 Mbit/s
95th percentile per-packet one-way delay: 63.994 ms
Loss rate: 0.56%
-- Flow 3:
Average throughput: 23.95 Mbit/s
95th percentile per-packet one-way delay: 68.216 ms
Loss rate: 1.53%

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

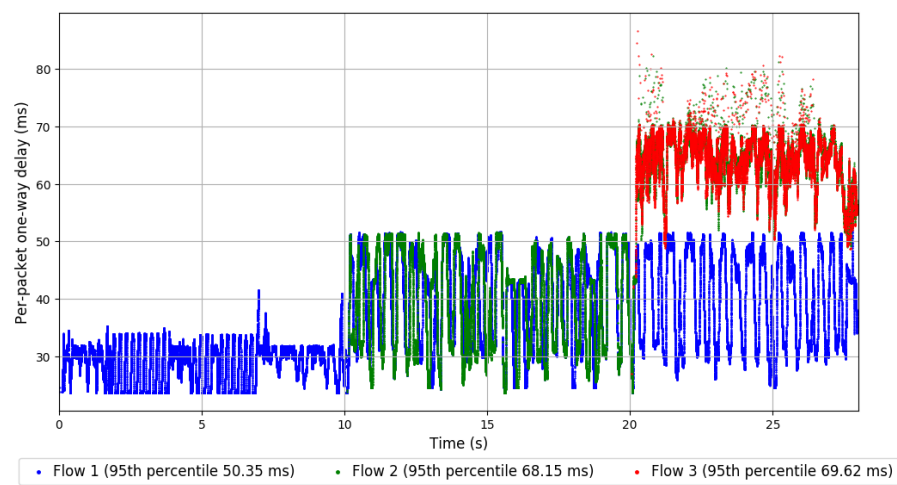
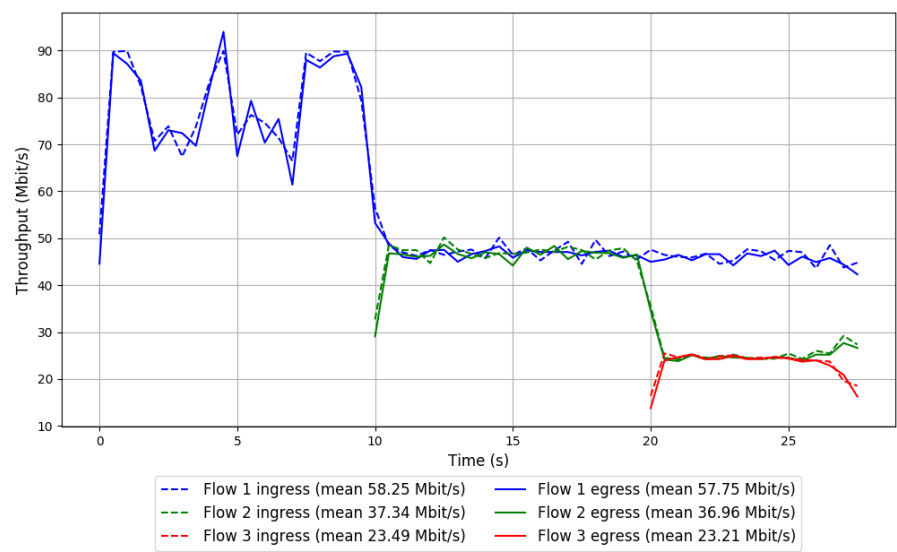


Run 2: Statistics of TaoVA-100x

Start at: 2017-12-11 20:26:10
End at: 2017-12-11 20:26:40
Local clock offset: -1.356 ms
Remote clock offset: -2.859 ms

Below is generated by plot.py at 2017-12-12 03:27:08
Datalink statistics
-- Total of 3 flows:
Average throughput: 88.01 Mbit/s
95th percentile per-packet one-way delay: 66.652 ms
Loss rate: 1.21%
-- Flow 1:
Average throughput: 57.75 Mbit/s
95th percentile per-packet one-way delay: 50.349 ms
Loss rate: 1.04%
-- Flow 2:
Average throughput: 36.96 Mbit/s
95th percentile per-packet one-way delay: 68.150 ms
Loss rate: 1.40%
-- Flow 3:
Average throughput: 23.21 Mbit/s
95th percentile per-packet one-way delay: 69.625 ms
Loss rate: 1.92%

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

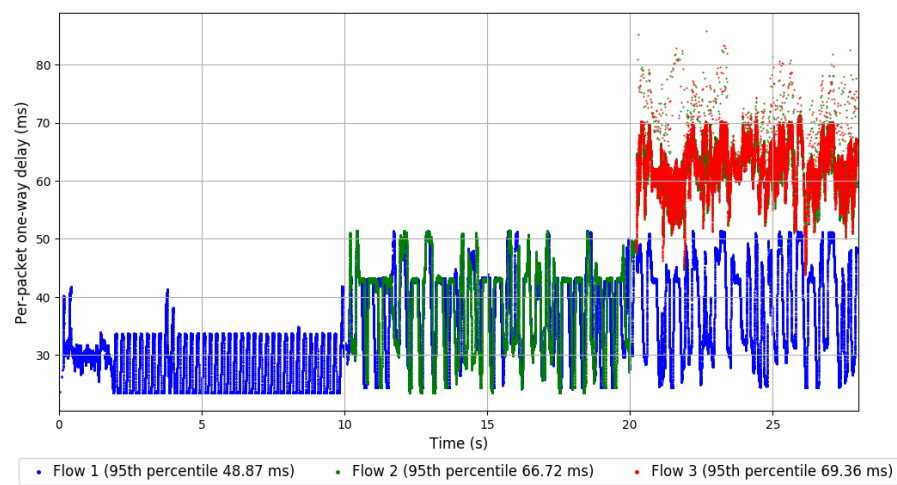
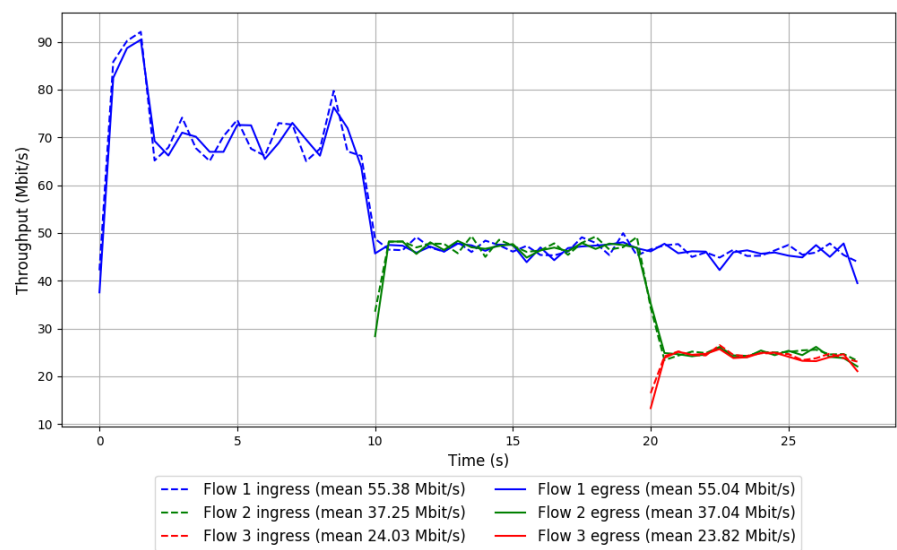


Run 3: Statistics of TaoVA-100x

Start at: 2017-12-11 20:46:04
End at: 2017-12-11 20:46:34
Local clock offset: -1.261 ms
Remote clock offset: -2.434 ms

Below is generated by plot.py at 2017-12-12 03:27:08
Datalink statistics
-- Total of 3 flows:
Average throughput: 85.51 Mbit/s
95th percentile per-packet one-way delay: 64.675 ms
Loss rate: 0.95%
-- Flow 1:
Average throughput: 55.04 Mbit/s
95th percentile per-packet one-way delay: 48.872 ms
Loss rate: 0.79%
-- Flow 2:
Average throughput: 37.04 Mbit/s
95th percentile per-packet one-way delay: 66.721 ms
Loss rate: 0.99%
-- Flow 3:
Average throughput: 23.82 Mbit/s
95th percentile per-packet one-way delay: 69.362 ms
Loss rate: 2.05%

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

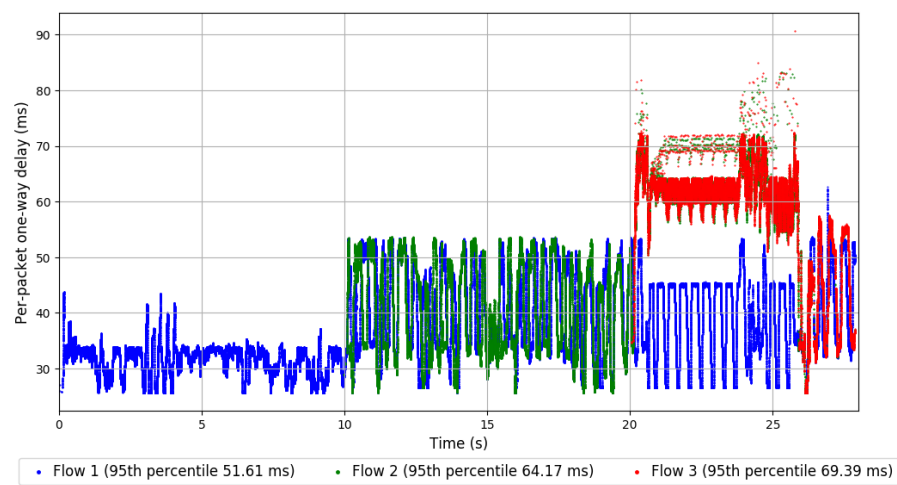
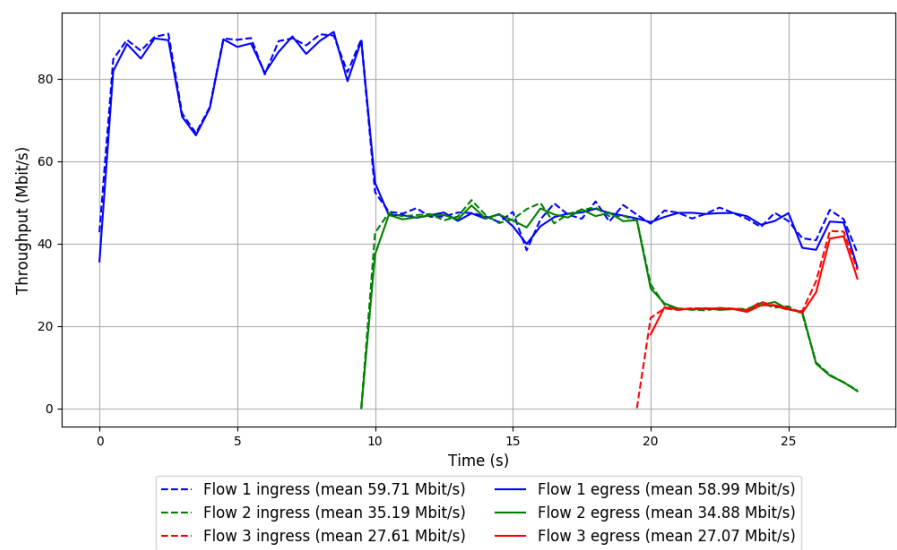


Run 4: Statistics of TaoVA-100x

Start at: 2017-12-11 21:05:44
End at: 2017-12-11 21:06:14
Local clock offset: -0.844 ms
Remote clock offset: -3.394 ms

Below is generated by plot.py at 2017-12-12 03:27:12
Datalink statistics
-- Total of 3 flows:
Average throughput: 89.06 Mbit/s
95th percentile per-packet one-way delay: 63.605 ms
Loss rate: 1.50%
-- Flow 1:
Average throughput: 58.99 Mbit/s
95th percentile per-packet one-way delay: 51.614 ms
Loss rate: 1.43%
-- Flow 2:
Average throughput: 34.88 Mbit/s
95th percentile per-packet one-way delay: 64.166 ms
Loss rate: 1.18%
-- Flow 3:
Average throughput: 27.07 Mbit/s
95th percentile per-packet one-way delay: 69.386 ms
Loss rate: 2.92%

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

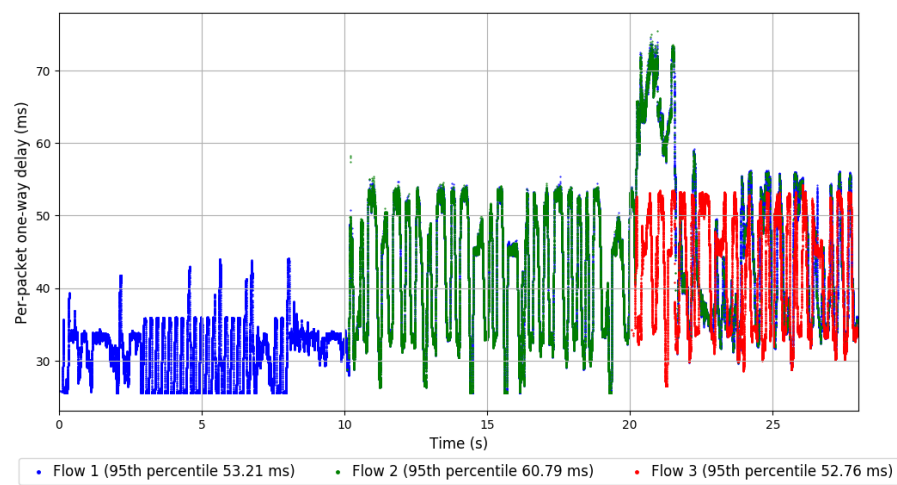
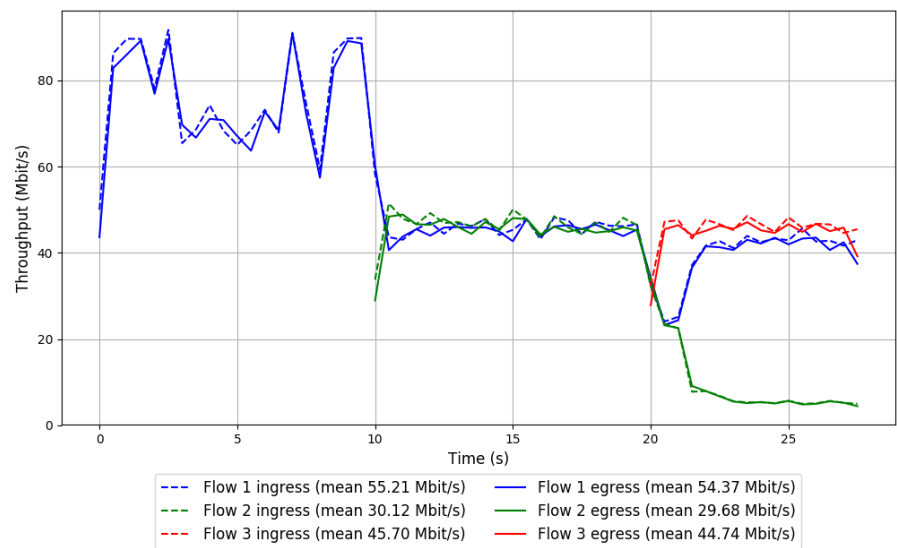


Run 5: Statistics of TaoVA-100x

Start at: 2017-12-11 21:25:59
End at: 2017-12-11 21:26:29
Local clock offset: -0.549 ms
Remote clock offset: -2.444 ms

Below is generated by plot.py at 2017-12-12 03:27:12
Datalink statistics
-- Total of 3 flows:
Average throughput: 86.04 Mbit/s
95th percentile per-packet one-way delay: 53.220 ms
Loss rate: 1.94%
-- Flow 1:
Average throughput: 54.37 Mbit/s
95th percentile per-packet one-way delay: 53.209 ms
Loss rate: 1.75%
-- Flow 2:
Average throughput: 29.68 Mbit/s
95th percentile per-packet one-way delay: 60.790 ms
Loss rate: 1.81%
-- Flow 3:
Average throughput: 44.74 Mbit/s
95th percentile per-packet one-way delay: 52.759 ms
Loss rate: 2.96%

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

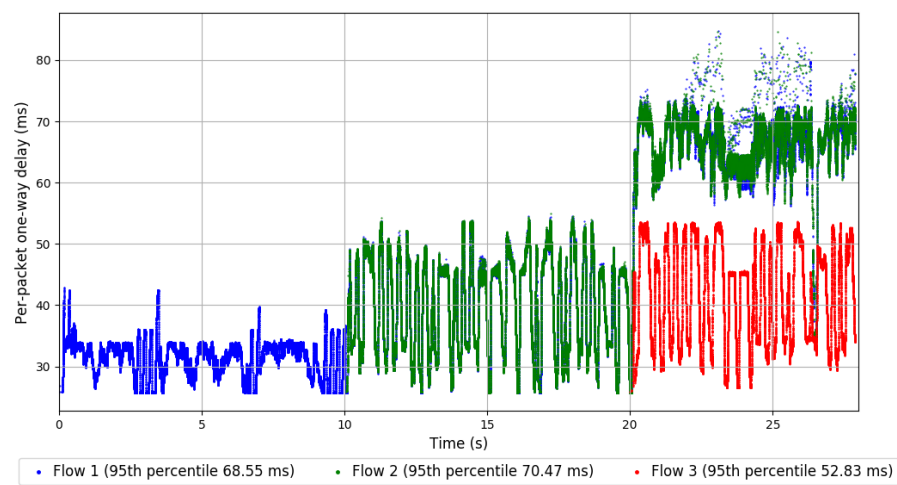
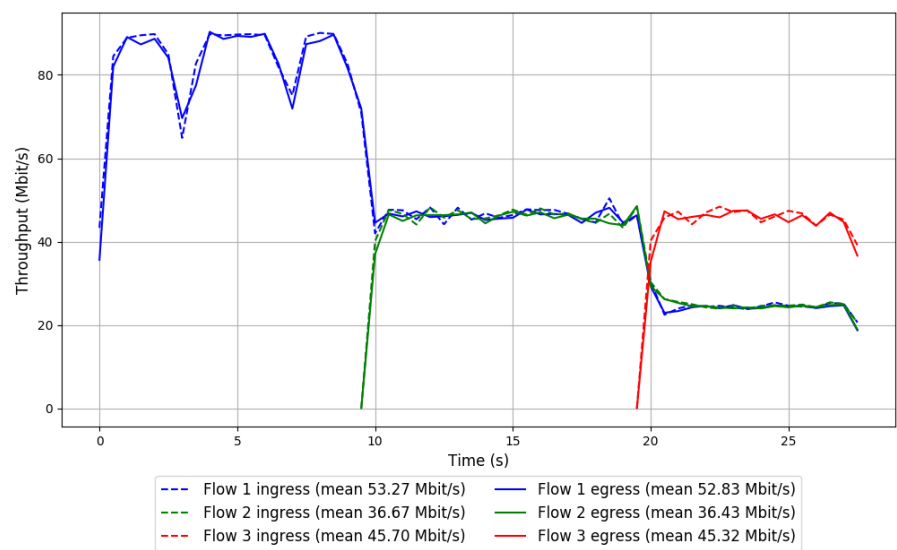


Run 6: Statistics of TaoVA-100x

Start at: 2017-12-11 21:46:38
End at: 2017-12-11 21:47:08
Local clock offset: -0.098 ms
Remote clock offset: -1.604 ms

Below is generated by plot.py at 2017-12-12 03:27:15
Datalink statistics
-- Total of 3 flows:
Average throughput: 89.07 Mbit/s
95th percentile per-packet one-way delay: 69.131 ms
Loss rate: 1.12%
-- Flow 1:
Average throughput: 52.83 Mbit/s
95th percentile per-packet one-way delay: 68.549 ms
Loss rate: 1.05%
-- Flow 2:
Average throughput: 36.43 Mbit/s
95th percentile per-packet one-way delay: 70.472 ms
Loss rate: 1.08%
-- Flow 3:
Average throughput: 45.32 Mbit/s
95th percentile per-packet one-way delay: 52.831 ms
Loss rate: 1.50%

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

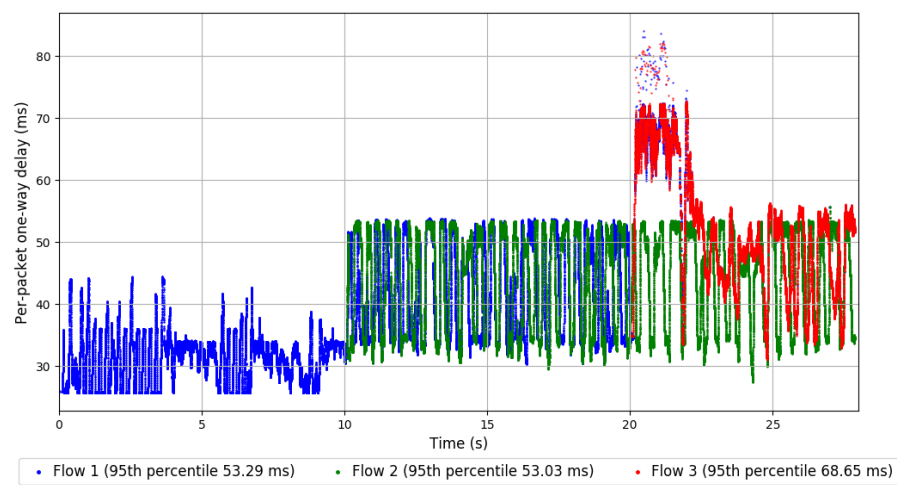
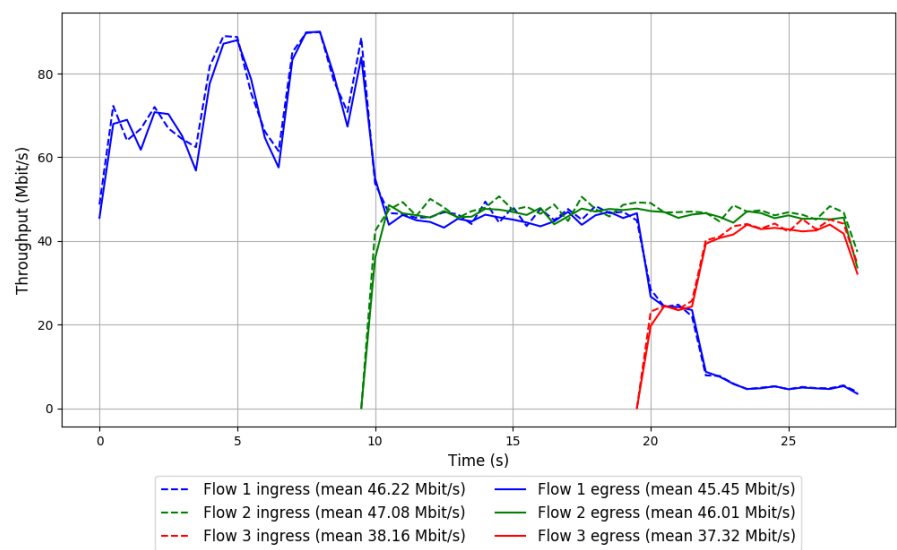


Run 7: Statistics of TaoVA-100x

Start at: 2017-12-11 22:07:06
End at: 2017-12-11 22:07:36
Local clock offset: 0.085 ms
Remote clock offset: -1.016 ms

Below is generated by plot.py at 2017-12-12 03:27:23
Datalink statistics
-- Total of 3 flows:
Average throughput: 85.59 Mbit/s
95th percentile per-packet one-way delay: 54.449 ms
Loss rate: 2.28%
-- Flow 1:
Average throughput: 45.45 Mbit/s
95th percentile per-packet one-way delay: 53.294 ms
Loss rate: 1.87%
-- Flow 2:
Average throughput: 46.01 Mbit/s
95th percentile per-packet one-way delay: 53.032 ms
Loss rate: 2.65%
-- Flow 3:
Average throughput: 37.32 Mbit/s
95th percentile per-packet one-way delay: 68.647 ms
Loss rate: 2.97%

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



Run 8: Statistics of TaoVA-100x

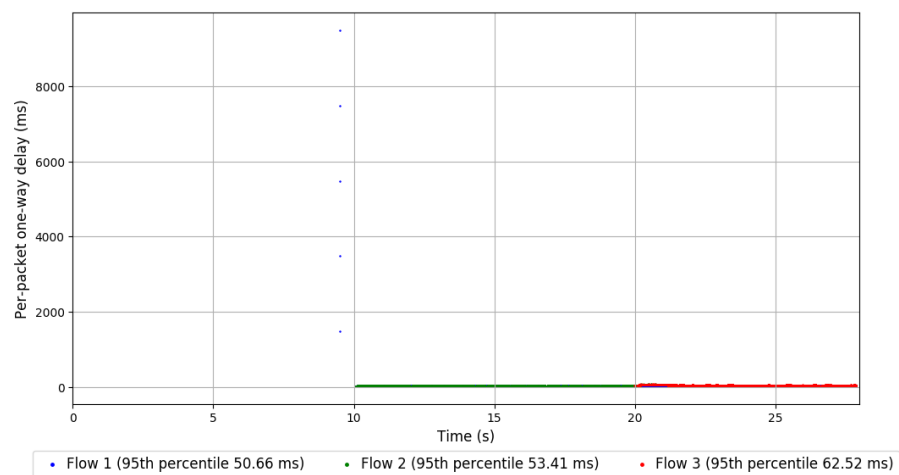
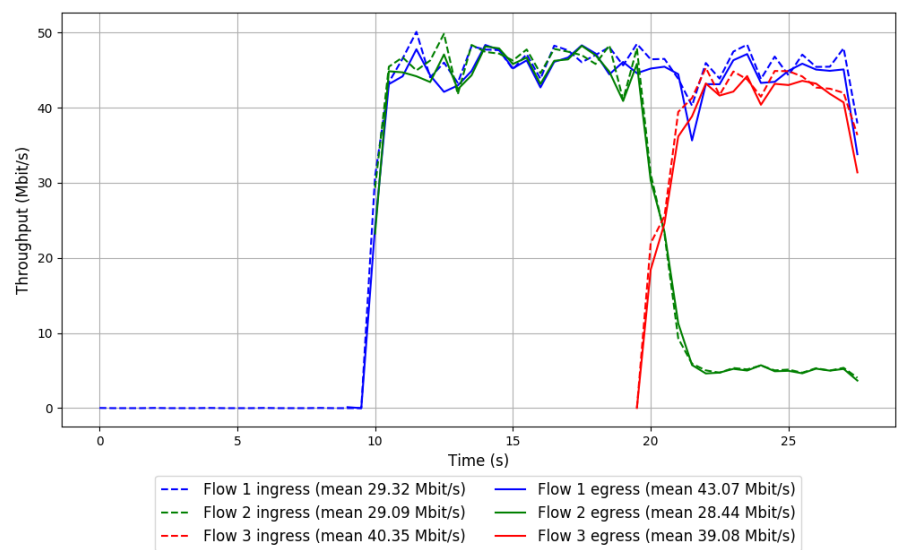
Start at: 2017-12-11 22:28:33

End at: 2017-12-11 22:29:03

Local clock offset: -0.422 ms

Remote clock offset: 1.271 ms

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



Run 9: Statistics of TaoVA-100x

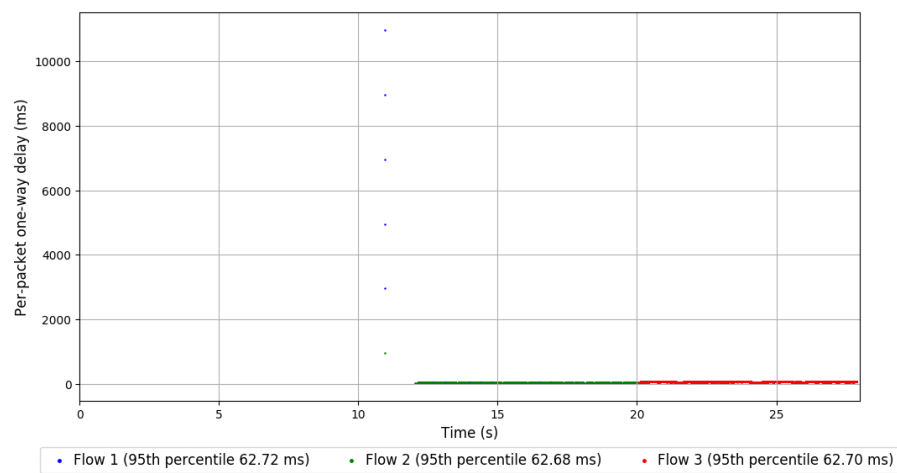
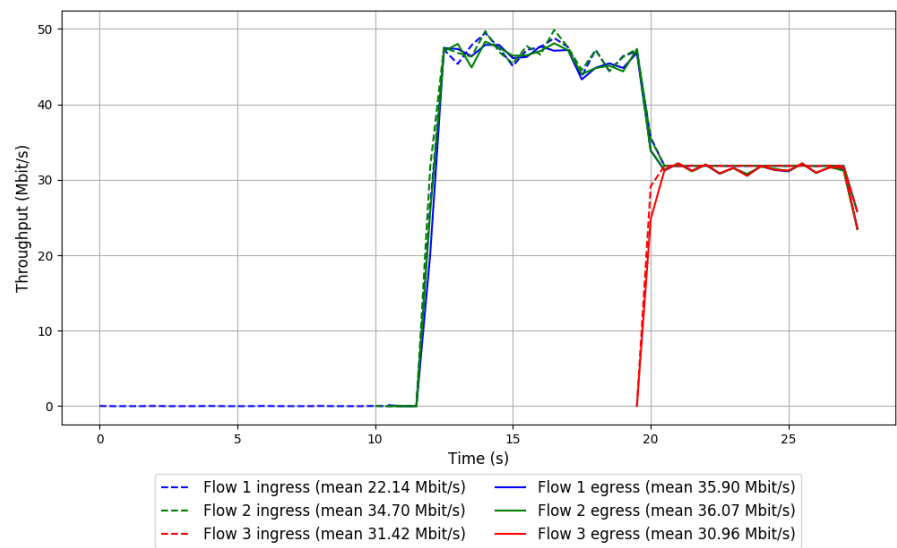
Start at: 2017-12-11 22:49:41

End at: 2017-12-11 22:50:11

Local clock offset: -0.795 ms

Remote clock offset: -0.47 ms

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

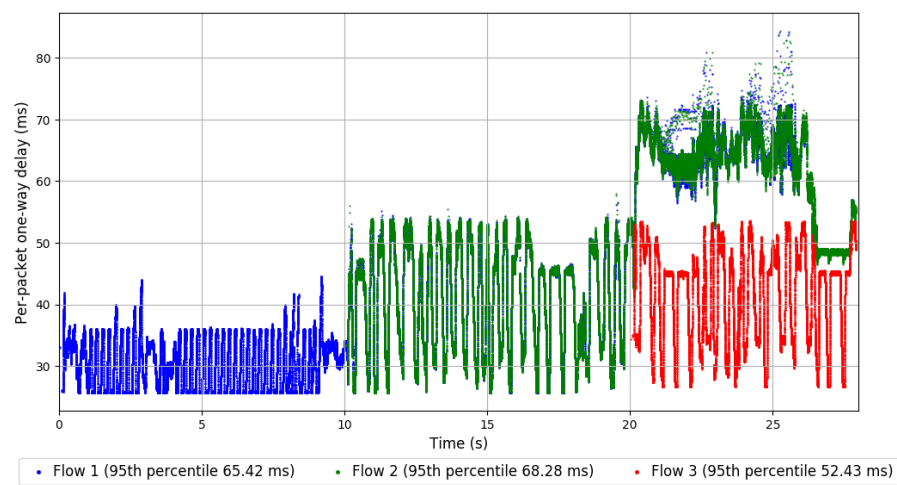
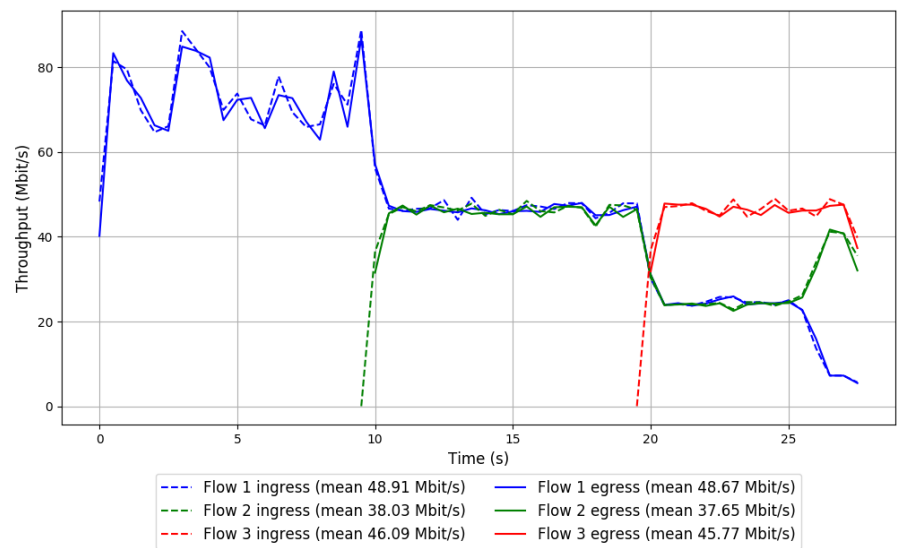


```
Run 10: Statistics of TaoVA-100x

Start at: 2017-12-11 23:10:21
End at: 2017-12-11 23:10:51
Local clock offset: -0.508 ms
Remote clock offset: 0.028 ms

# Below is generated by plot.py at 2017-12-12 03:29:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.80 Mbit/s
95th percentile per-packet one-way delay: 66.032 ms
Loss rate: 1.00%
-- Flow 1:
Average throughput: 48.67 Mbit/s
95th percentile per-packet one-way delay: 65.420 ms
Loss rate: 0.71%
-- Flow 2:
Average throughput: 37.65 Mbit/s
95th percentile per-packet one-way delay: 68.284 ms
Loss rate: 1.34%
-- Flow 3:
Average throughput: 45.77 Mbit/s
95th percentile per-packet one-way delay: 52.434 ms
Loss rate: 1.46%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2017-12-11 20:09:16

End at: 2017-12-11 20:09:46

Local clock offset: -1.169 ms

Remote clock offset: -3.2 ms

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 36.92 Mbit/s

95th percentile per-packet one-way delay: 40.841 ms

Loss rate: 0.52%

-- Flow 1:

Average throughput: 17.45 Mbit/s

95th percentile per-packet one-way delay: 40.031 ms

Loss rate: 0.40%

-- Flow 2:

Average throughput: 15.76 Mbit/s

95th percentile per-packet one-way delay: 31.852 ms

Loss rate: 0.47%

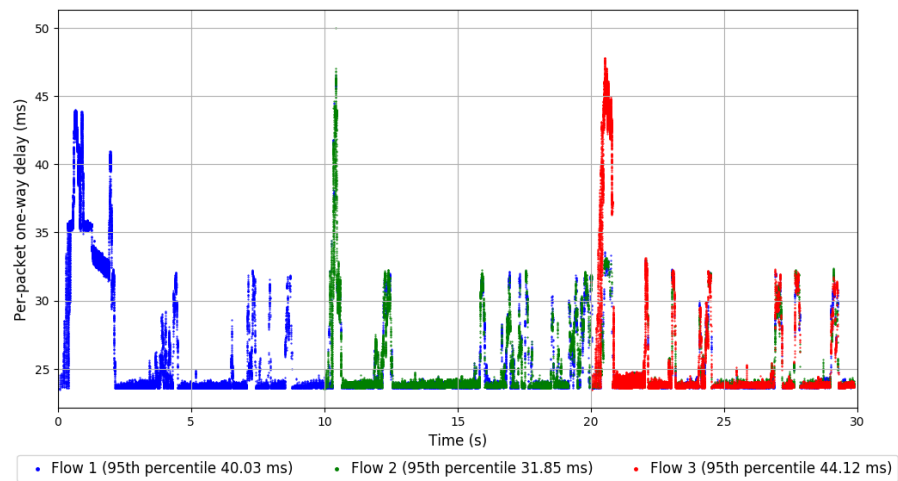
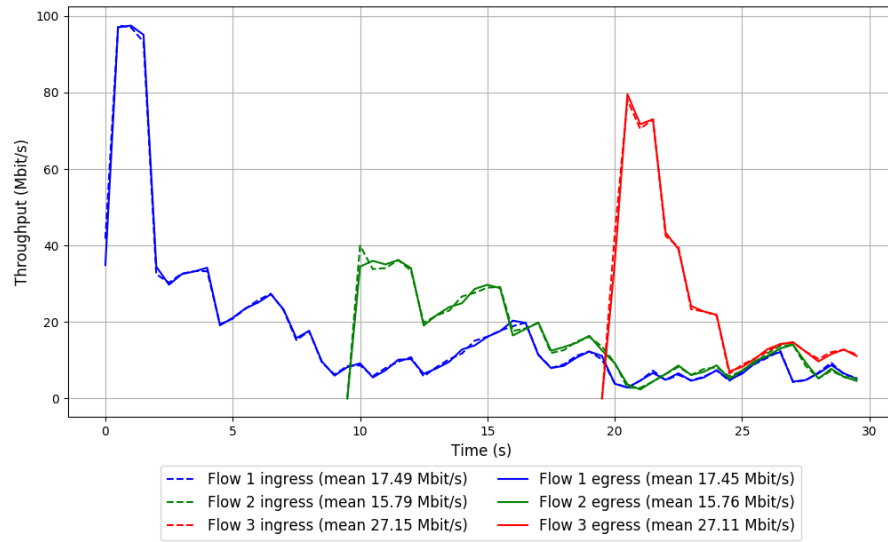
-- Flow 3:

Average throughput: 27.11 Mbit/s

95th percentile per-packet one-way delay: 44.116 ms

Loss rate: 0.79%

Run 1: Report of TCP Vegas — Data Link

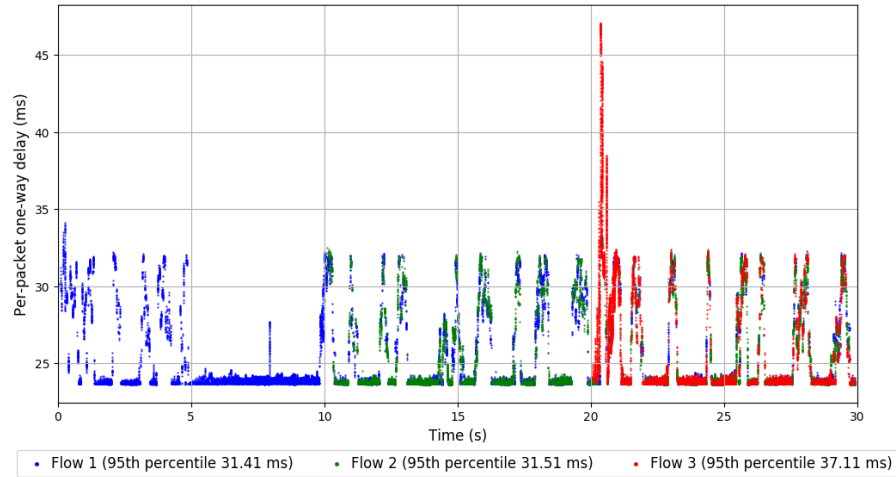
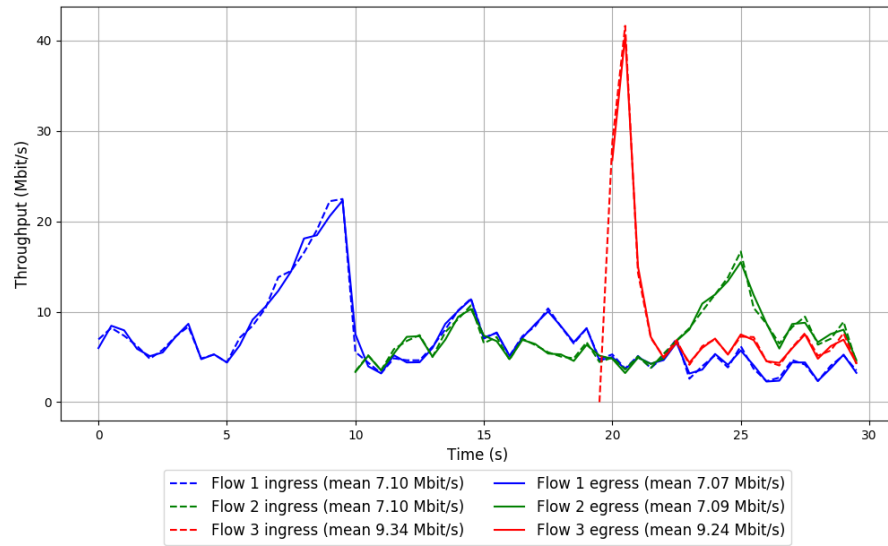


Run 2: Statistics of TCP Vegas

Start at: 2017-12-11 20:29:05
End at: 2017-12-11 20:29:35
Local clock offset: -1.342 ms
Remote clock offset: -2.803 ms

Below is generated by plot.py at 2017-12-12 03:29:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 14.84 Mbit/s
95th percentile per-packet one-way delay: 31.756 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 7.07 Mbit/s
95th percentile per-packet one-way delay: 31.411 ms
Loss rate: 0.56%
-- Flow 2:
Average throughput: 7.09 Mbit/s
95th percentile per-packet one-way delay: 31.508 ms
Loss rate: 0.53%
-- Flow 3:
Average throughput: 9.24 Mbit/s
95th percentile per-packet one-way delay: 37.108 ms
Loss rate: 1.63%

Run 2: Report of TCP Vegas — Data Link

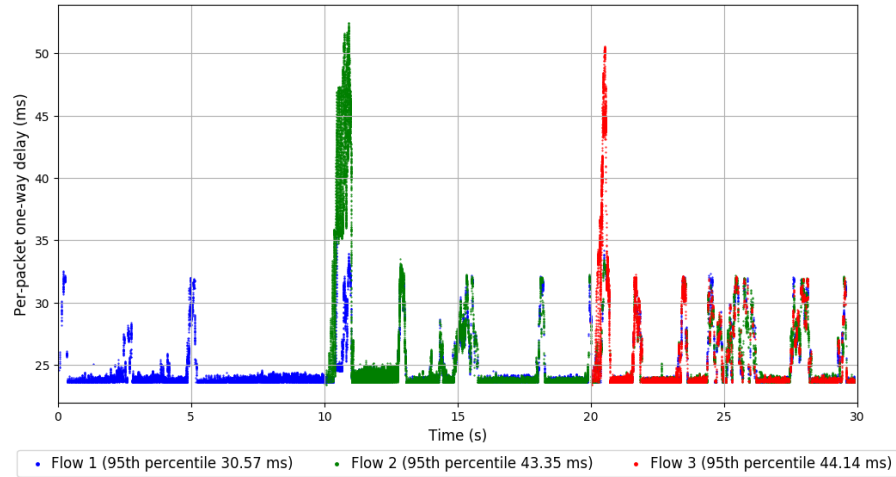
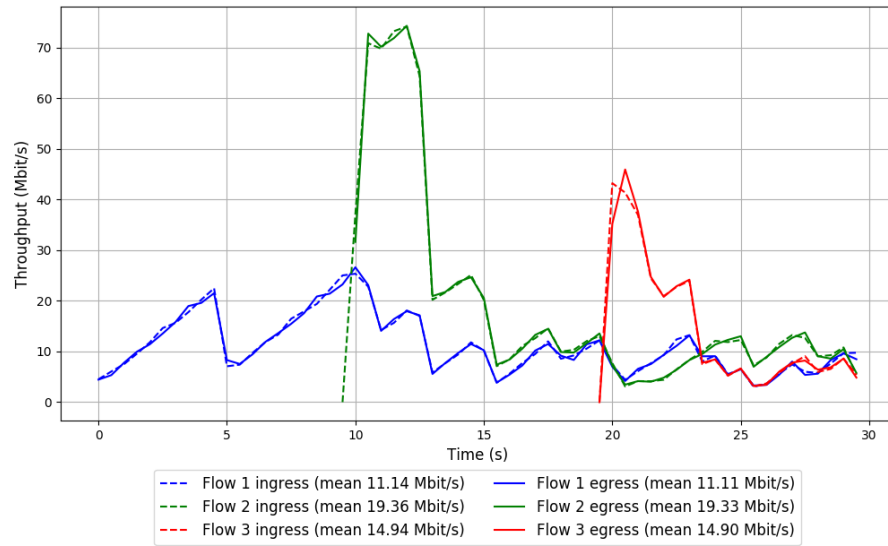


Run 3: Statistics of TCP Vegas

Start at: 2017-12-11 20:48:59
End at: 2017-12-11 20:49:29
Local clock offset: -1.12 ms
Remote clock offset: -2.306 ms

Below is generated by plot.py at 2017-12-12 03:29:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 28.90 Mbit/s
95th percentile per-packet one-way delay: 38.599 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 11.11 Mbit/s
95th percentile per-packet one-way delay: 30.571 ms
Loss rate: 0.39%
-- Flow 2:
Average throughput: 19.33 Mbit/s
95th percentile per-packet one-way delay: 43.348 ms
Loss rate: 0.45%
-- Flow 3:
Average throughput: 14.90 Mbit/s
95th percentile per-packet one-way delay: 44.138 ms
Loss rate: 0.81%

Run 3: Report of TCP Vegas — Data Link

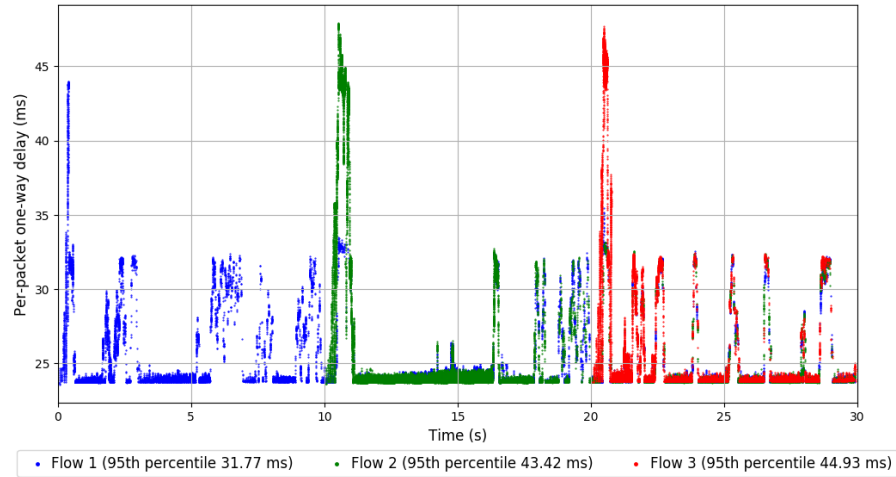
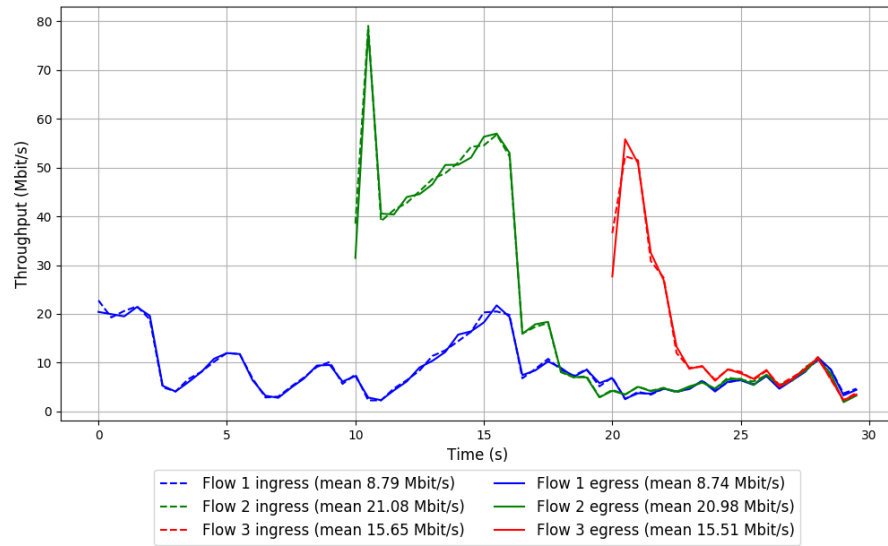


Run 4: Statistics of TCP Vegas

Start at: 2017-12-11 21:08:52
End at: 2017-12-11 21:09:22
Local clock offset: -0.781 ms
Remote clock offset: -1.272 ms

Below is generated by plot.py at 2017-12-12 03:29:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 27.80 Mbit/s
95th percentile per-packet one-way delay: 41.574 ms
Loss rate: 0.92%
-- Flow 1:
Average throughput: 8.74 Mbit/s
95th percentile per-packet one-way delay: 31.771 ms
Loss rate: 0.80%
-- Flow 2:
Average throughput: 20.98 Mbit/s
95th percentile per-packet one-way delay: 43.422 ms
Loss rate: 0.78%
-- Flow 3:
Average throughput: 15.51 Mbit/s
95th percentile per-packet one-way delay: 44.929 ms
Loss rate: 1.49%

Run 4: Report of TCP Vegas — Data Link

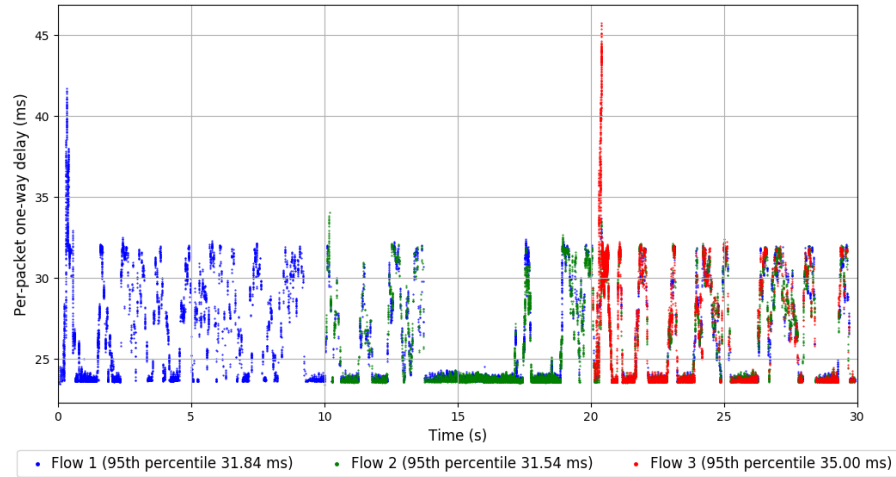
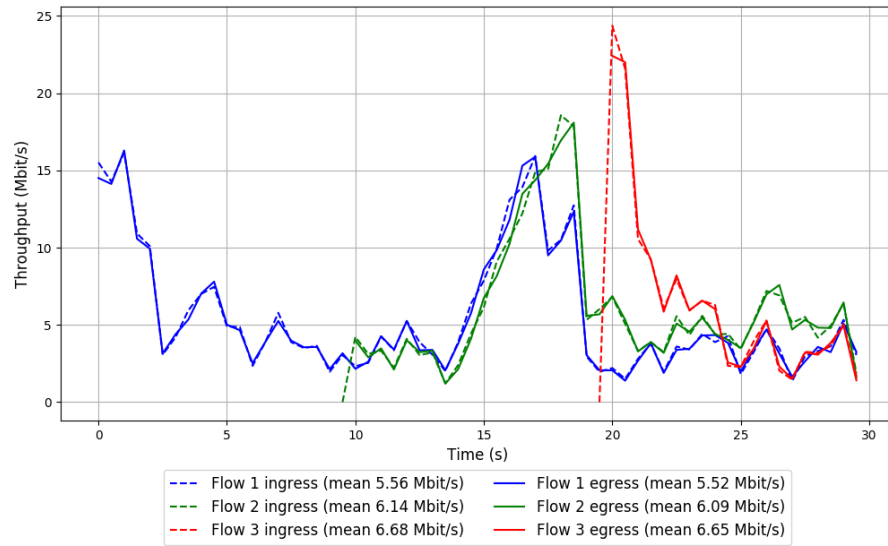


Run 5: Statistics of TCP Vegas

Start at: 2017-12-11 21:29:21
End at: 2017-12-11 21:29:51
Local clock offset: -0.478 ms
Remote clock offset: -0.243 ms

Below is generated by plot.py at 2017-12-12 03:29:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 11.77 Mbit/s
95th percentile per-packet one-way delay: 31.805 ms
Loss rate: 0.98%
-- Flow 1:
Average throughput: 5.52 Mbit/s
95th percentile per-packet one-way delay: 31.843 ms
Loss rate: 1.00%
-- Flow 2:
Average throughput: 6.09 Mbit/s
95th percentile per-packet one-way delay: 31.541 ms
Loss rate: 0.92%
-- Flow 3:
Average throughput: 6.65 Mbit/s
95th percentile per-packet one-way delay: 35.001 ms
Loss rate: 1.05%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2017-12-11 21:49:52

End at: 2017-12-11 21:50:22

Local clock offset: 0.049 ms

Remote clock offset: 0.586 ms

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 16.00 Mbit/s

95th percentile per-packet one-way delay: 31.442 ms

Loss rate: 0.61%

-- Flow 1:

Average throughput: 8.84 Mbit/s

95th percentile per-packet one-way delay: 31.420 ms

Loss rate: 0.54%

-- Flow 2:

Average throughput: 7.89 Mbit/s

95th percentile per-packet one-way delay: 31.338 ms

Loss rate: 0.56%

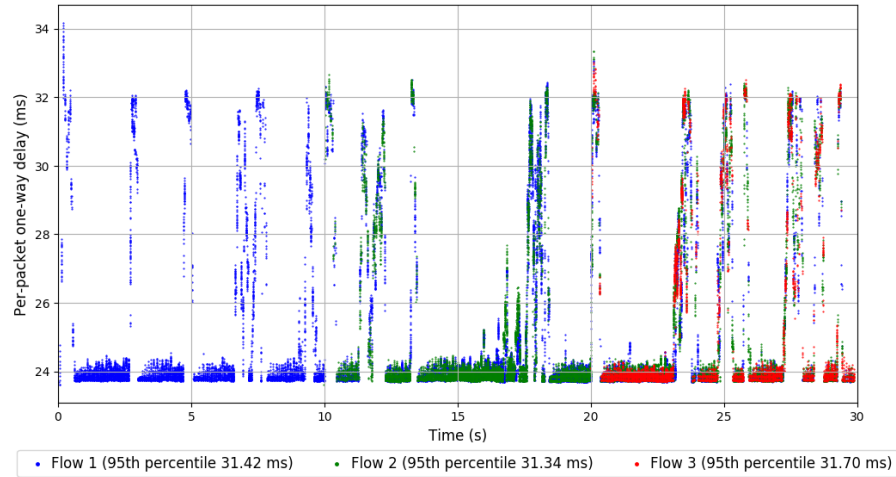
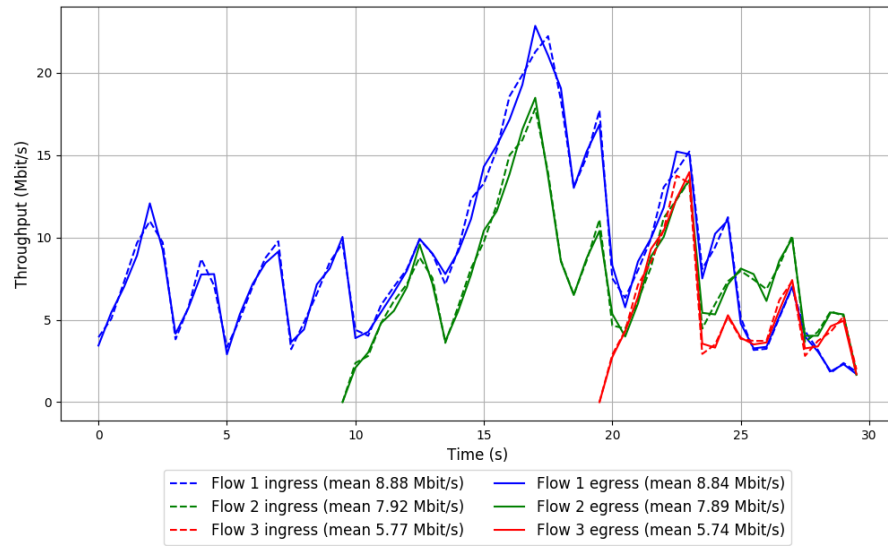
-- Flow 3:

Average throughput: 5.74 Mbit/s

95th percentile per-packet one-way delay: 31.702 ms

Loss rate: 1.11%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2017-12-11 22:10:35

End at: 2017-12-11 22:11:05

Local clock offset: 0.09 ms

Remote clock offset: -1.2 ms

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 8.90 Mbit/s

95th percentile per-packet one-way delay: 44.969 ms

Loss rate: 2.22%

-- Flow 1:

Average throughput: 3.36 Mbit/s

95th percentile per-packet one-way delay: 34.123 ms

Loss rate: 2.16%

-- Flow 2:

Average throughput: 2.99 Mbit/s

95th percentile per-packet one-way delay: 34.157 ms

Loss rate: 2.62%

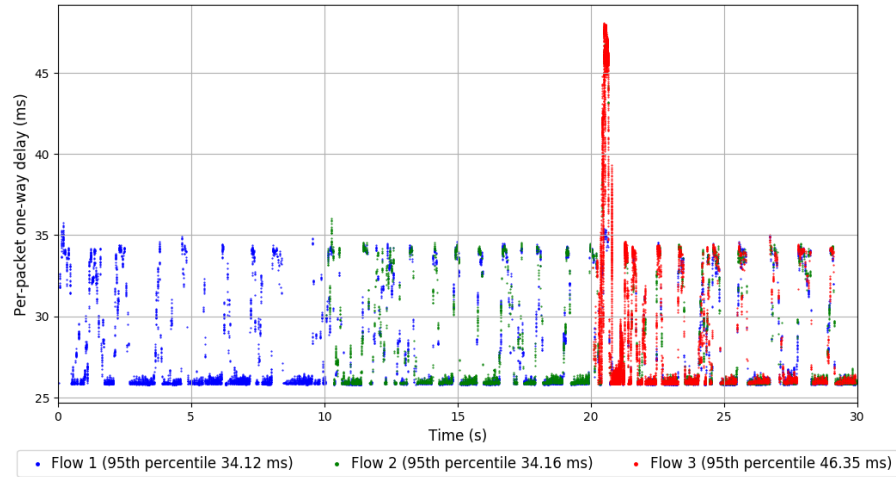
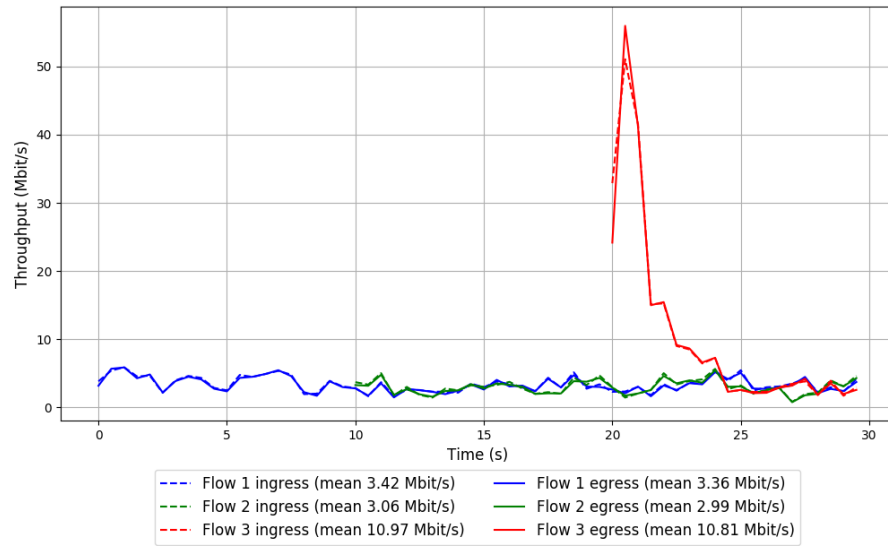
-- Flow 3:

Average throughput: 10.81 Mbit/s

95th percentile per-packet one-way delay: 46.352 ms

Loss rate: 2.04%

Run 7: Report of TCP Vegas — Data Link

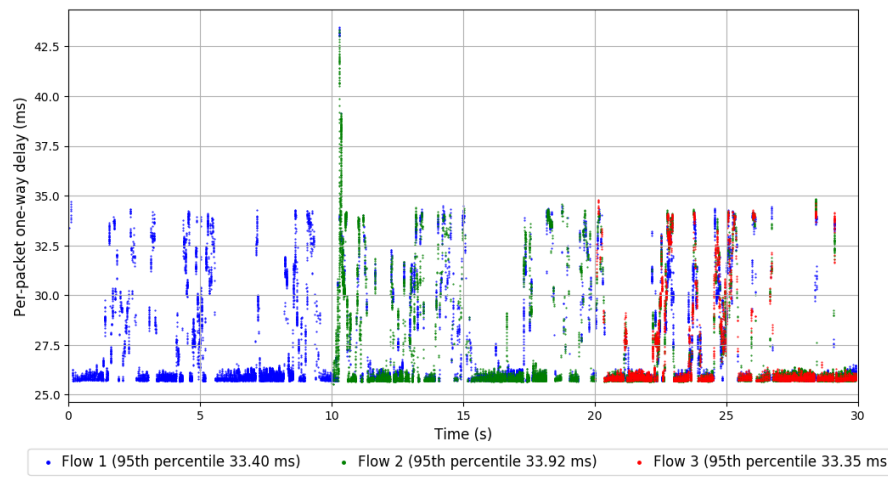
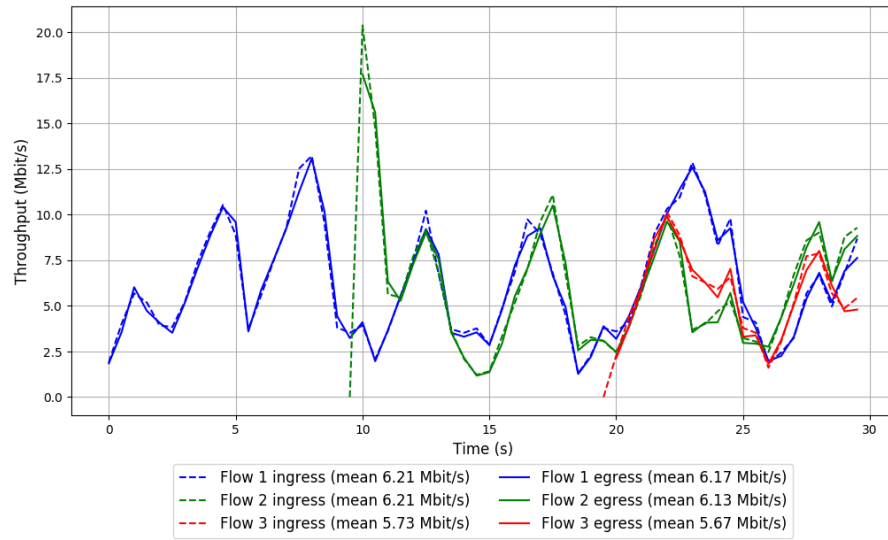


Run 8: Statistics of TCP Vegas

Start at: 2017-12-11 22:31:53
End at: 2017-12-11 22:32:23
Local clock offset: -0.511 ms
Remote clock offset: -0.859 ms

Below is generated by plot.py at 2017-12-12 03:29:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 12.13 Mbit/s
95th percentile per-packet one-way delay: 33.645 ms
Loss rate: 1.21%
-- Flow 1:
Average throughput: 6.17 Mbit/s
95th percentile per-packet one-way delay: 33.401 ms
Loss rate: 0.88%
-- Flow 2:
Average throughput: 6.13 Mbit/s
95th percentile per-packet one-way delay: 33.925 ms
Loss rate: 1.58%
-- Flow 3:
Average throughput: 5.67 Mbit/s
95th percentile per-packet one-way delay: 33.346 ms
Loss rate: 1.50%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2017-12-11 22:53:07

End at: 2017-12-11 22:53:37

Local clock offset: -0.775 ms

Remote clock offset: 1.711 ms

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 11.62 Mbit/s

95th percentile per-packet one-way delay: 31.867 ms

Loss rate: 0.91%

-- Flow 1:

Average throughput: 4.43 Mbit/s

95th percentile per-packet one-way delay: 31.874 ms

Loss rate: 1.05%

-- Flow 2:

Average throughput: 4.55 Mbit/s

95th percentile per-packet one-way delay: 31.806 ms

Loss rate: 1.22%

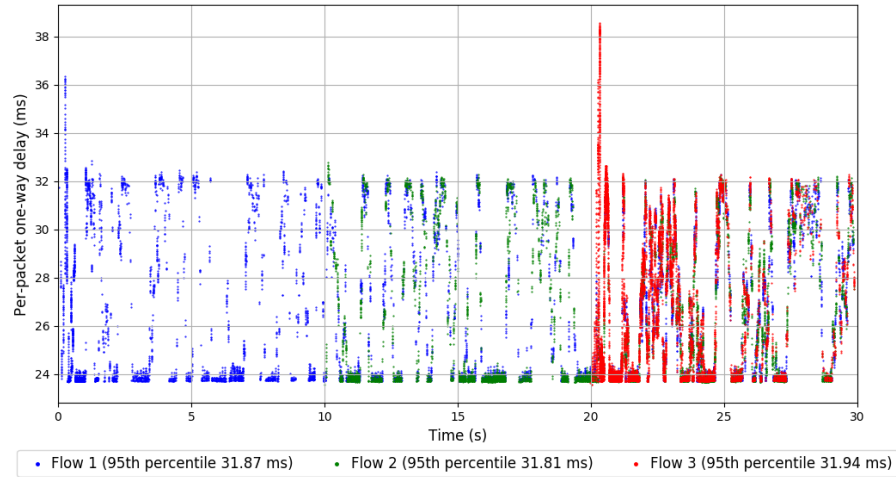
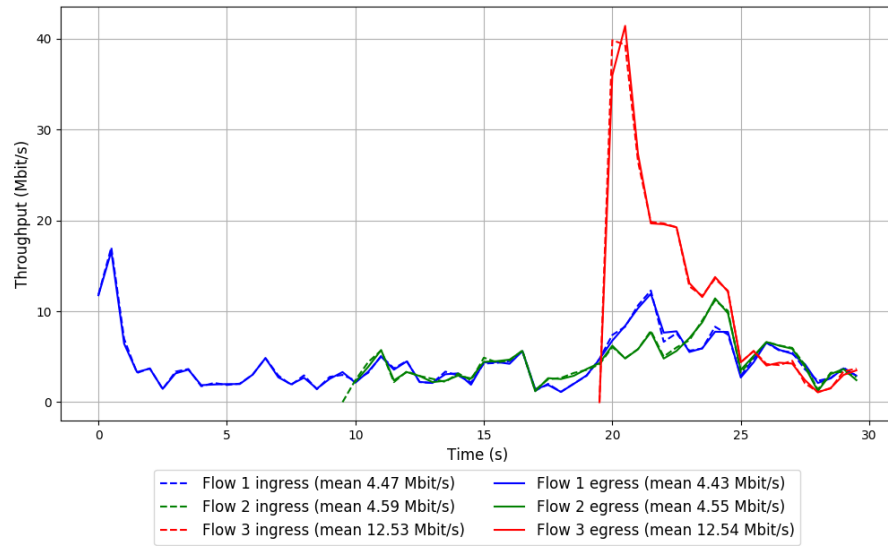
-- Flow 3:

Average throughput: 12.54 Mbit/s

95th percentile per-packet one-way delay: 31.942 ms

Loss rate: 0.53%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2017-12-11 23:13:21

End at: 2017-12-11 23:13:51

Local clock offset: -0.57 ms

Remote clock offset: 0.075 ms

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 13.19 Mbit/s

95th percentile per-packet one-way delay: 34.030 ms

Loss rate: 1.41%

-- Flow 1:

Average throughput: 5.99 Mbit/s

95th percentile per-packet one-way delay: 33.629 ms

Loss rate: 0.90%

-- Flow 2:

Average throughput: 8.87 Mbit/s

95th percentile per-packet one-way delay: 38.576 ms

Loss rate: 1.81%

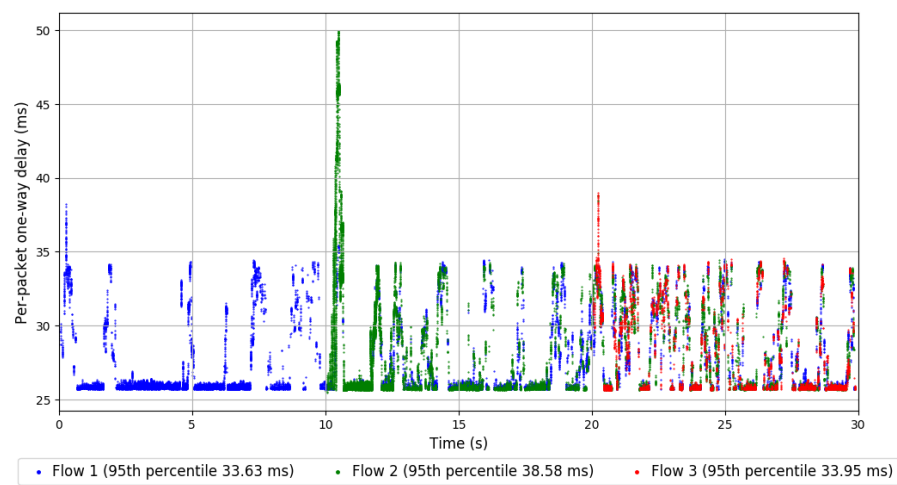
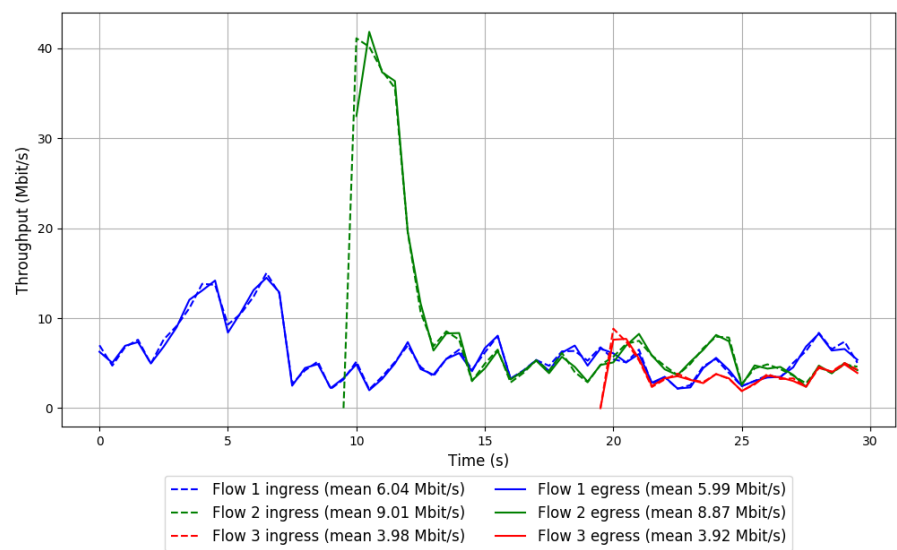
-- Flow 3:

Average throughput: 3.92 Mbit/s

95th percentile per-packet one-way delay: 33.949 ms

Loss rate: 1.97%

Run 10: Report of TCP Vegas — Data Link

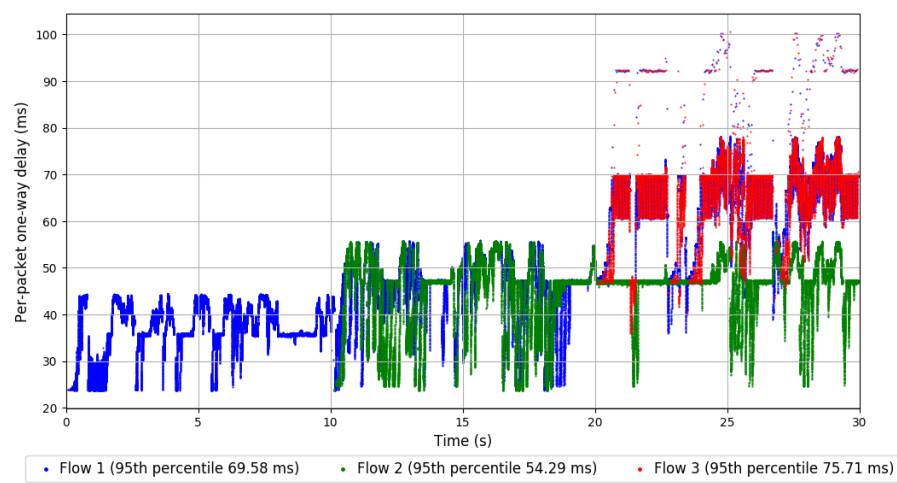
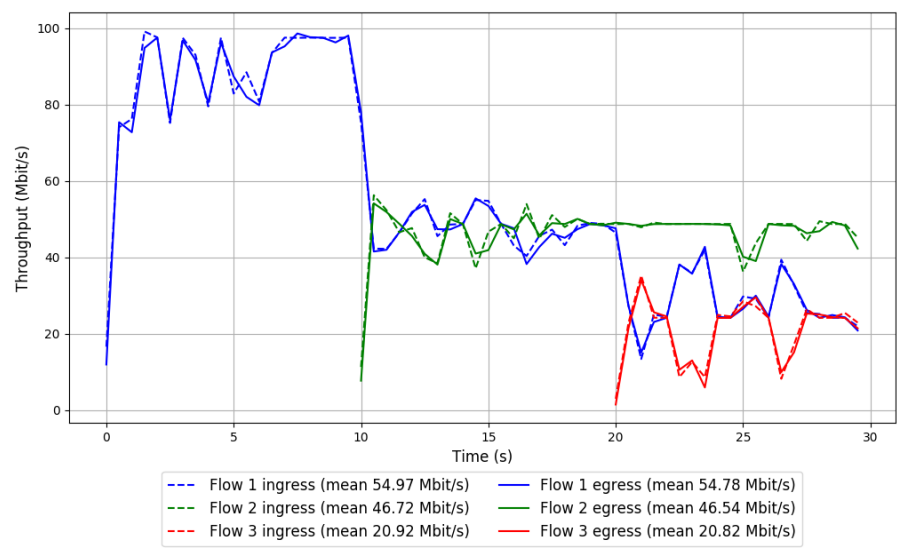


Run 1: Statistics of Verus

Start at: 2017-12-11 20:03:36
End at: 2017-12-11 20:04:06
Local clock offset: -0.929 ms
Remote clock offset: -3.367 ms

Below is generated by plot.py at 2017-12-12 03:29:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 92.57 Mbit/s
95th percentile per-packet one-way delay: 69.684 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 54.78 Mbit/s
95th percentile per-packet one-way delay: 69.582 ms
Loss rate: 0.61%
-- Flow 2:
Average throughput: 46.54 Mbit/s
95th percentile per-packet one-way delay: 54.291 ms
Loss rate: 0.76%
-- Flow 3:
Average throughput: 20.82 Mbit/s
95th percentile per-packet one-way delay: 75.710 ms
Loss rate: 1.47%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2017-12-11 20:23:15

End at: 2017-12-11 20:23:45

Local clock offset: -1.422 ms

Remote clock offset: -5.09 ms

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.72 Mbit/s

95th percentile per-packet one-way delay: 63.618 ms

Loss rate: 0.98%

-- Flow 1:

Average throughput: 50.28 Mbit/s

95th percentile per-packet one-way delay: 61.366 ms

Loss rate: 0.81%

-- Flow 2:

Average throughput: 42.56 Mbit/s

95th percentile per-packet one-way delay: 63.729 ms

Loss rate: 1.14%

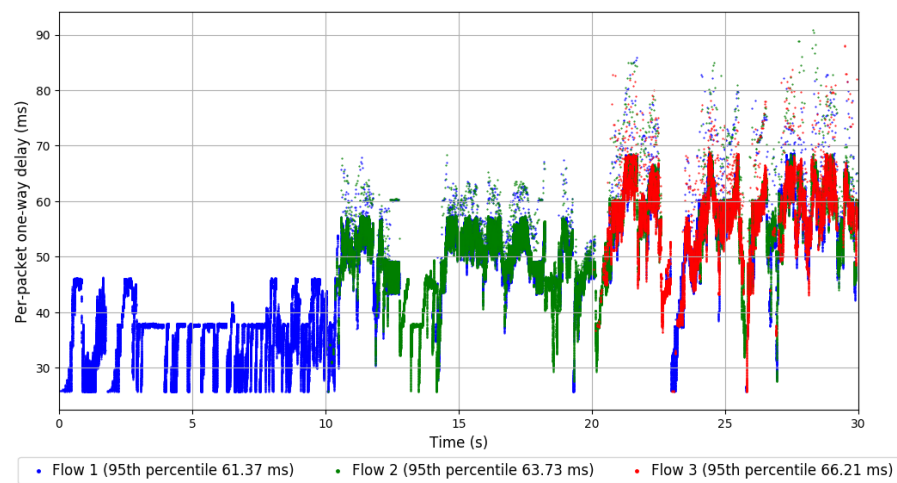
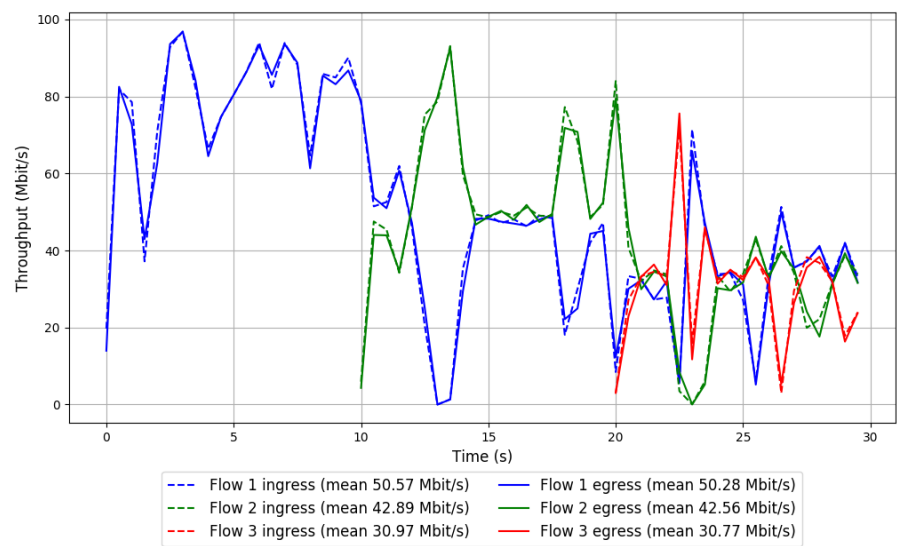
-- Flow 3:

Average throughput: 30.77 Mbit/s

95th percentile per-packet one-way delay: 66.208 ms

Loss rate: 1.40%

Run 2: Report of Verus — Data Link

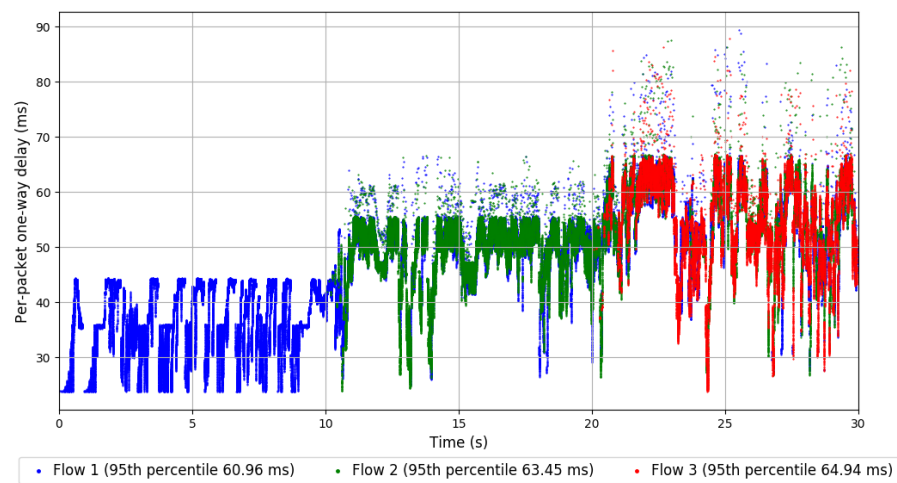
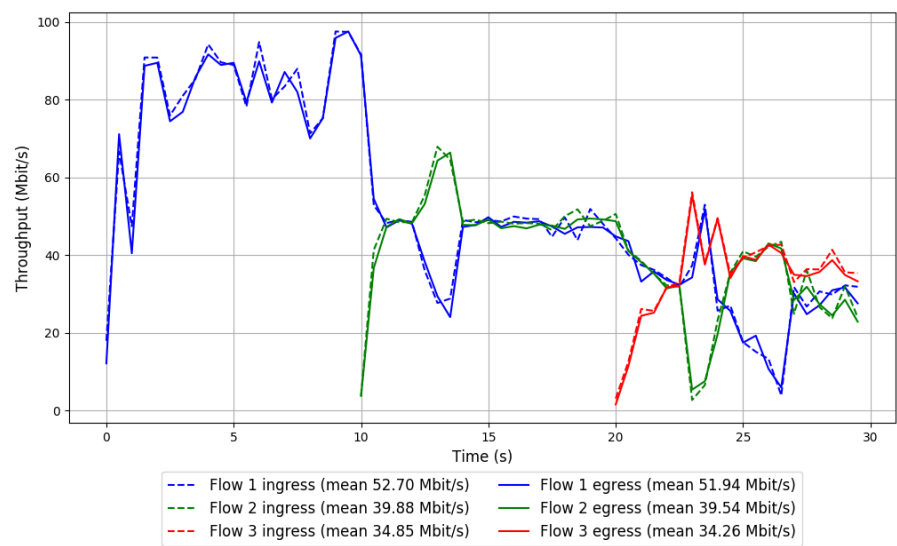


Run 3: Statistics of Verus

Start at: 2017-12-11 20:43:18
End at: 2017-12-11 20:43:48
Local clock offset: -1.206 ms
Remote clock offset: -2.721 ms

Below is generated by plot.py at 2017-12-12 03:29:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 89.38 Mbit/s
95th percentile per-packet one-way delay: 62.985 ms
Loss rate: 1.78%
-- Flow 1:
Average throughput: 51.94 Mbit/s
95th percentile per-packet one-way delay: 60.960 ms
Loss rate: 1.63%
-- Flow 2:
Average throughput: 39.54 Mbit/s
95th percentile per-packet one-way delay: 63.452 ms
Loss rate: 1.78%
-- Flow 3:
Average throughput: 34.26 Mbit/s
95th percentile per-packet one-way delay: 64.935 ms
Loss rate: 2.53%

Run 3: Report of Verus — Data Link

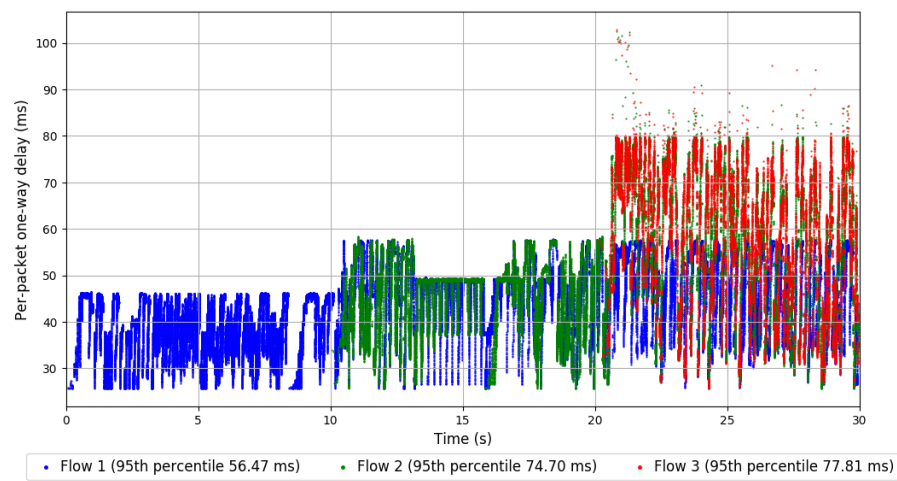
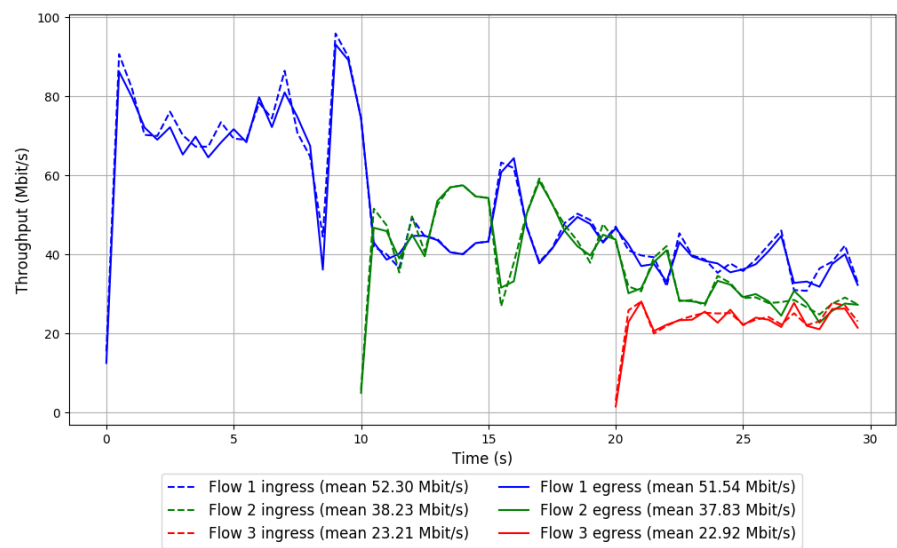


Run 4: Statistics of Verus

Start at: 2017-12-11 21:02:58
End at: 2017-12-11 21:03:28
Local clock offset: -0.982 ms
Remote clock offset: -3.633 ms

Below is generated by plot.py at 2017-12-12 03:29:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 84.23 Mbit/s
95th percentile per-packet one-way delay: 69.777 ms
Loss rate: 1.60%
-- Flow 1:
Average throughput: 51.54 Mbit/s
95th percentile per-packet one-way delay: 56.474 ms
Loss rate: 1.63%
-- Flow 2:
Average throughput: 37.83 Mbit/s
95th percentile per-packet one-way delay: 74.696 ms
Loss rate: 1.36%
-- Flow 3:
Average throughput: 22.92 Mbit/s
95th percentile per-packet one-way delay: 77.815 ms
Loss rate: 2.21%

Run 4: Report of Verus — Data Link

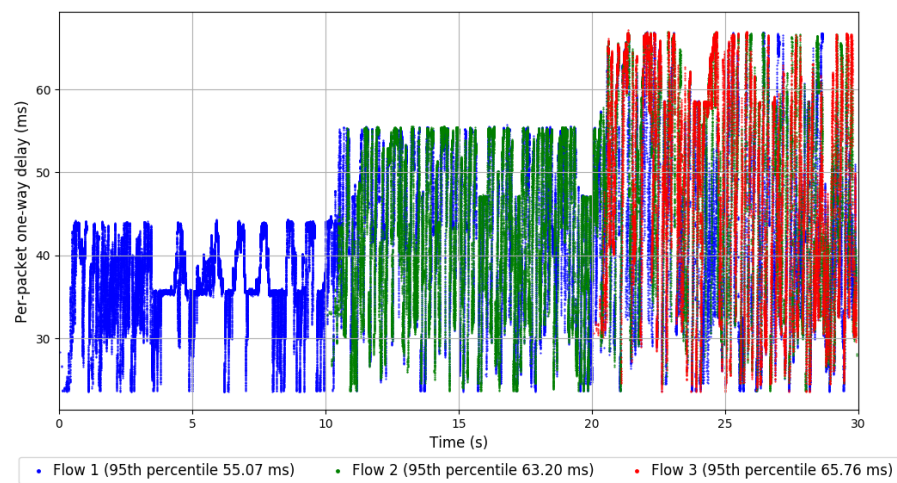
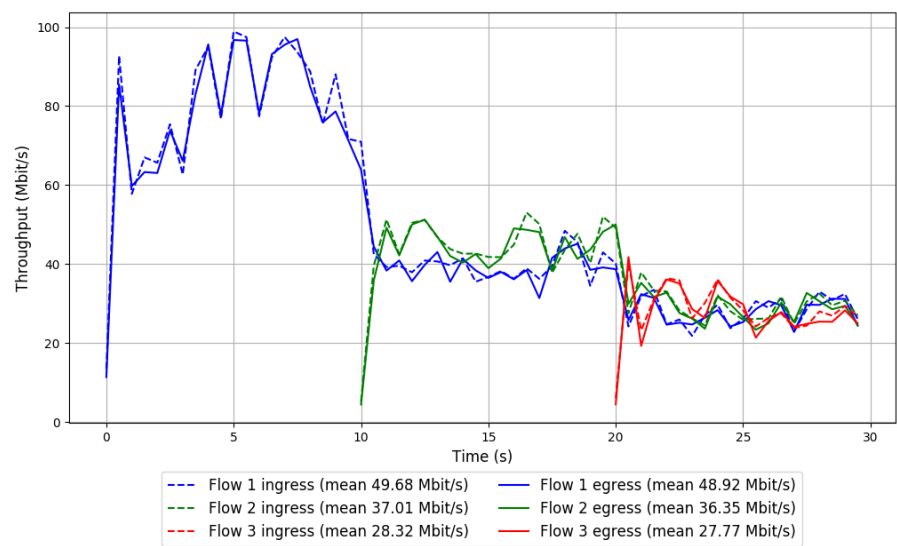


Run 5: Statistics of Verus

Start at: 2017-12-11 21:23:04
End at: 2017-12-11 21:23:34
Local clock offset: -0.504 ms
Remote clock offset: -0.456 ms

Below is generated by plot.py at 2017-12-12 03:29:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 82.20 Mbit/s
95th percentile per-packet one-way delay: 61.594 ms
Loss rate: 1.98%
-- Flow 1:
Average throughput: 48.92 Mbit/s
95th percentile per-packet one-way delay: 55.068 ms
Loss rate: 1.82%
-- Flow 2:
Average throughput: 36.35 Mbit/s
95th percentile per-packet one-way delay: 63.196 ms
Loss rate: 2.05%
-- Flow 3:
Average throughput: 27.77 Mbit/s
95th percentile per-packet one-way delay: 65.761 ms
Loss rate: 2.68%

Run 5: Report of Verus — Data Link

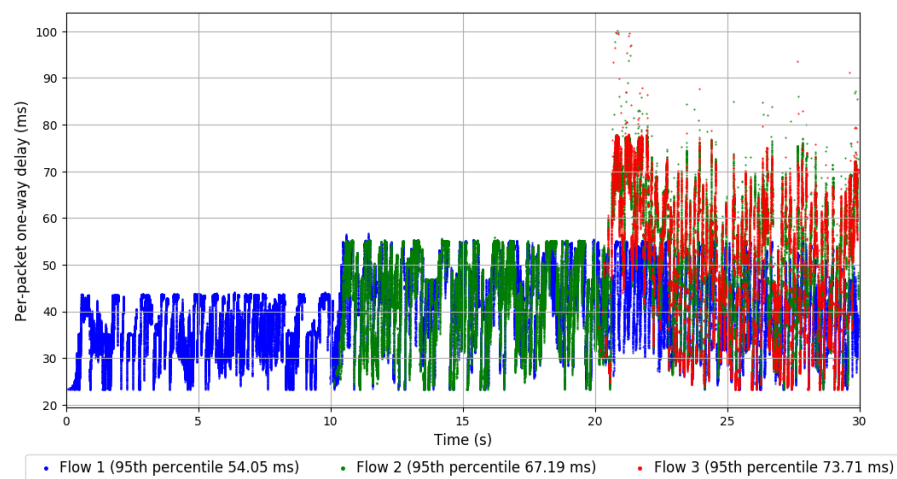
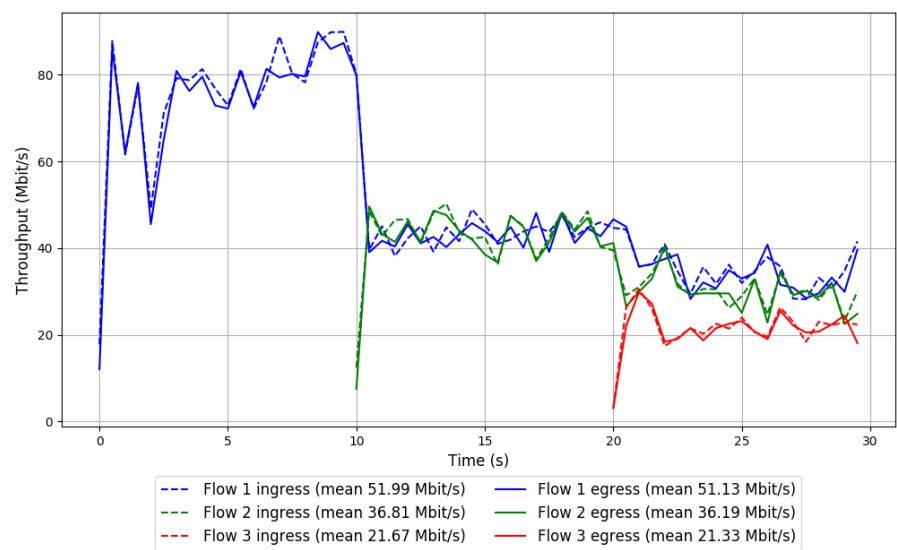


Run 6: Statistics of Verus

Start at: 2017-12-11 21:43:44
End at: 2017-12-11 21:44:14
Local clock offset: -0.072 ms
Remote clock offset: 0.836 ms

Below is generated by plot.py at 2017-12-12 03:29:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 82.23 Mbit/s
95th percentile per-packet one-way delay: 61.884 ms
Loss rate: 1.91%
-- Flow 1:
Average throughput: 51.13 Mbit/s
95th percentile per-packet one-way delay: 54.054 ms
Loss rate: 1.79%
-- Flow 2:
Average throughput: 36.19 Mbit/s
95th percentile per-packet one-way delay: 67.193 ms
Loss rate: 2.06%
-- Flow 3:
Average throughput: 21.33 Mbit/s
95th percentile per-packet one-way delay: 73.706 ms
Loss rate: 2.32%

Run 6: Report of Verus — Data Link

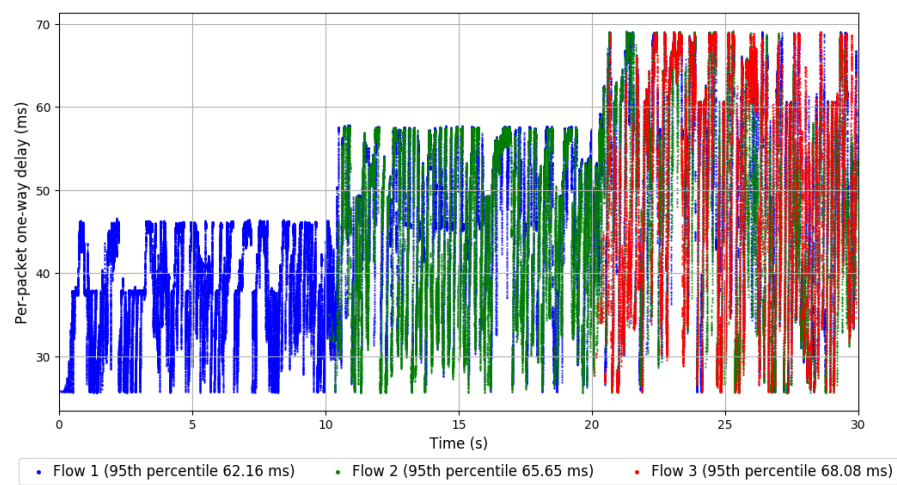
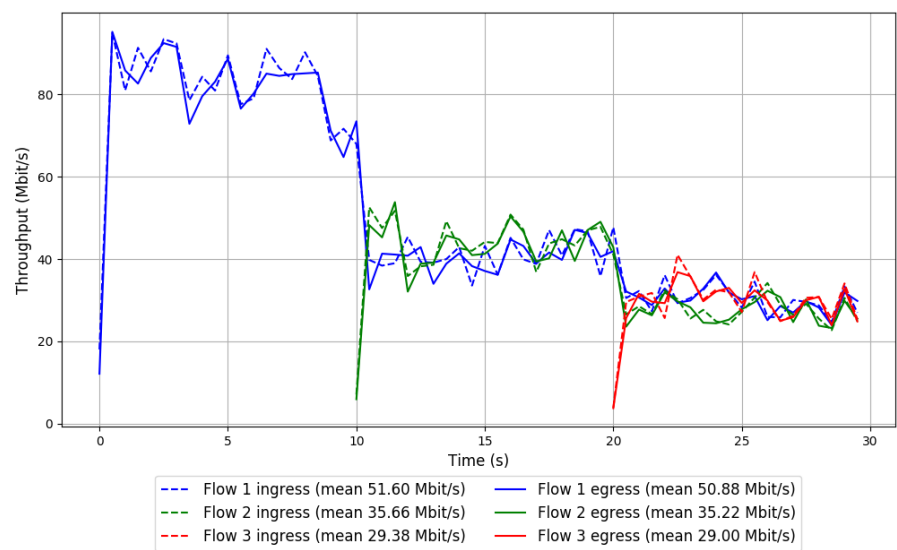


Run 7: Statistics of Verus

Start at: 2017-12-11 22:04:13
End at: 2017-12-11 22:04:43
Local clock offset: 0.082 ms
Remote clock offset: -1.007 ms

Below is generated by plot.py at 2017-12-12 03:29:23
Datalink statistics
-- Total of 3 flows:
Average throughput: 83.85 Mbit/s
95th percentile per-packet one-way delay: 65.490 ms
Loss rate: 1.61%
-- Flow 1:
Average throughput: 50.88 Mbit/s
95th percentile per-packet one-way delay: 62.164 ms
Loss rate: 1.57%
-- Flow 2:
Average throughput: 35.22 Mbit/s
95th percentile per-packet one-way delay: 65.652 ms
Loss rate: 1.52%
-- Flow 3:
Average throughput: 29.00 Mbit/s
95th percentile per-packet one-way delay: 68.079 ms
Loss rate: 2.00%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2017-12-11 22:25:28

End at: 2017-12-11 22:25:58

Local clock offset: -0.365 ms

Remote clock offset: 1.032 ms

Below is generated by plot.py at 2017-12-12 03:30:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 73.68 Mbit/s

95th percentile per-packet one-way delay: 60.744 ms

Loss rate: 2.56%

-- Flow 1:

Average throughput: 43.36 Mbit/s

95th percentile per-packet one-way delay: 58.572 ms

Loss rate: 2.76%

-- Flow 2:

Average throughput: 32.77 Mbit/s

95th percentile per-packet one-way delay: 59.470 ms

Loss rate: 2.30%

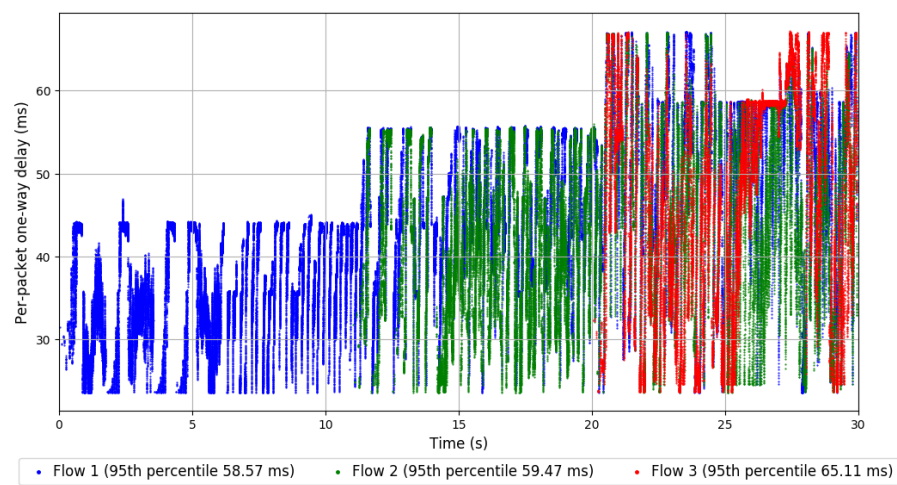
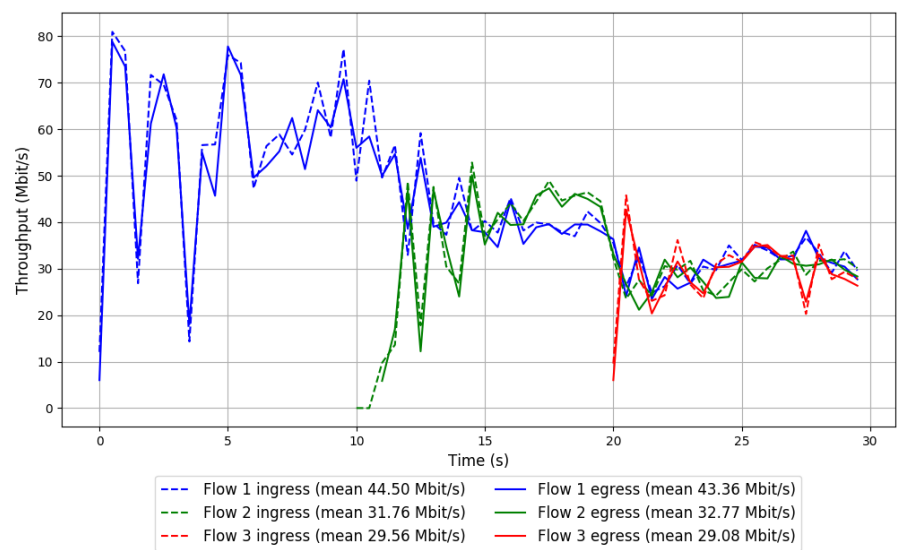
-- Flow 3:

Average throughput: 29.08 Mbit/s

95th percentile per-packet one-way delay: 65.106 ms

Loss rate: 2.22%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2017-12-11 22:46:39

End at: 2017-12-11 22:47:09

Local clock offset: -0.691 ms

Remote clock offset: 1.596 ms

Below is generated by plot.py at 2017-12-12 03:30:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 81.60 Mbit/s

95th percentile per-packet one-way delay: 63.808 ms

Loss rate: 1.47%

-- Flow 1:

Average throughput: 47.15 Mbit/s

95th percentile per-packet one-way delay: 58.554 ms

Loss rate: 1.64%

-- Flow 2:

Average throughput: 36.48 Mbit/s

95th percentile per-packet one-way delay: 64.702 ms

Loss rate: 1.32%

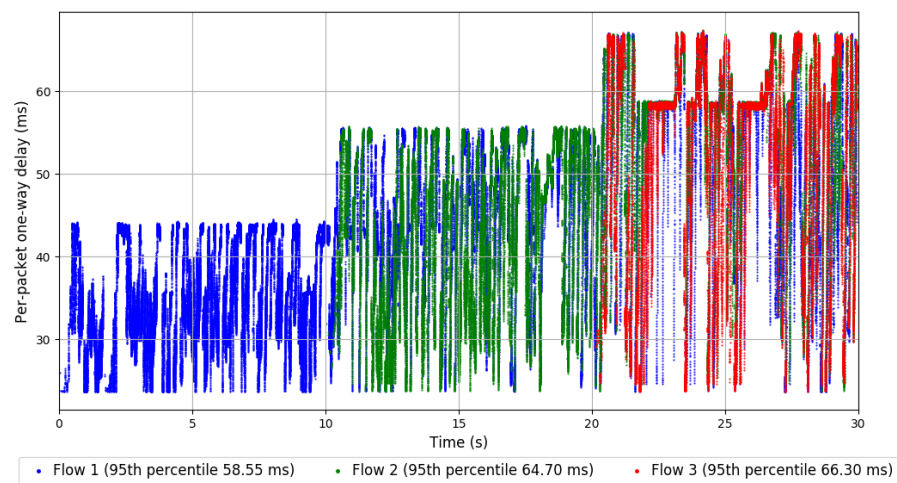
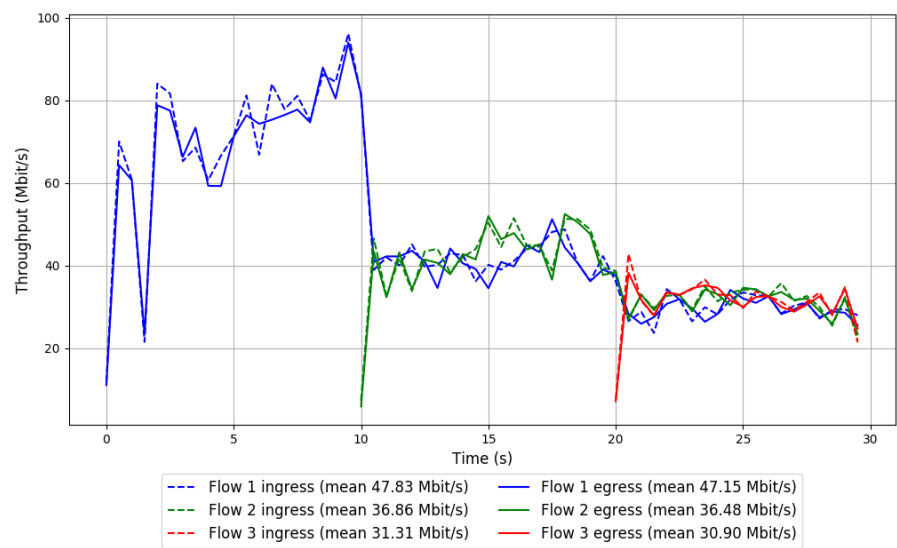
-- Flow 3:

Average throughput: 30.90 Mbit/s

95th percentile per-packet one-way delay: 66.295 ms

Loss rate: 1.04%

Run 9: Report of Verus — Data Link

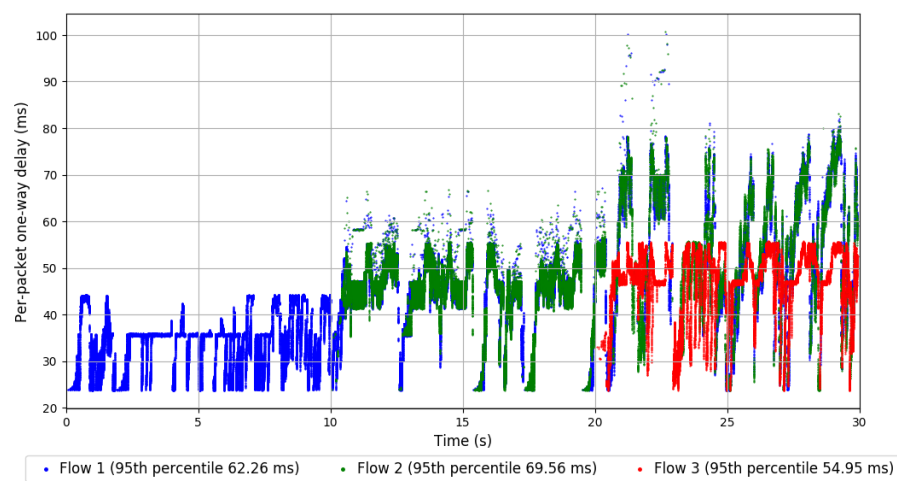
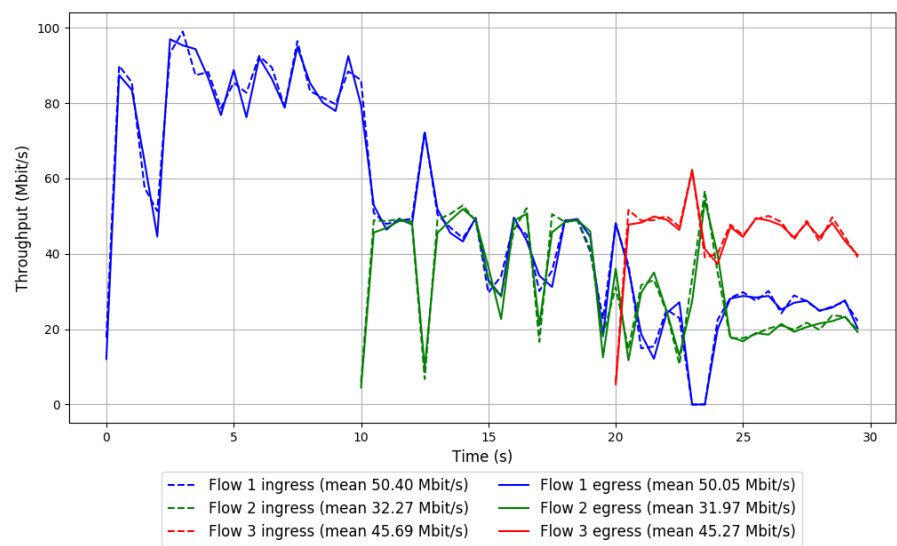


Run 10: Statistics of Verus

Start at: 2017-12-11 23:07:30
End at: 2017-12-11 23:08:00
Local clock offset: -0.556 ms
Remote clock offset: 1.971 ms

Below is generated by plot.py at 2017-12-12 03:30:11
Datalink statistics
-- Total of 3 flows:
Average throughput: 86.24 Mbit/s
95th percentile per-packet one-way delay: 63.706 ms
Loss rate: 0.98%
-- Flow 1:
Average throughput: 50.05 Mbit/s
95th percentile per-packet one-way delay: 62.256 ms
Loss rate: 0.85%
-- Flow 2:
Average throughput: 31.97 Mbit/s
95th percentile per-packet one-way delay: 69.564 ms
Loss rate: 1.18%
-- Flow 3:
Average throughput: 45.27 Mbit/s
95th percentile per-packet one-way delay: 54.952 ms
Loss rate: 1.14%

Run 10: Report of Verus — Data Link

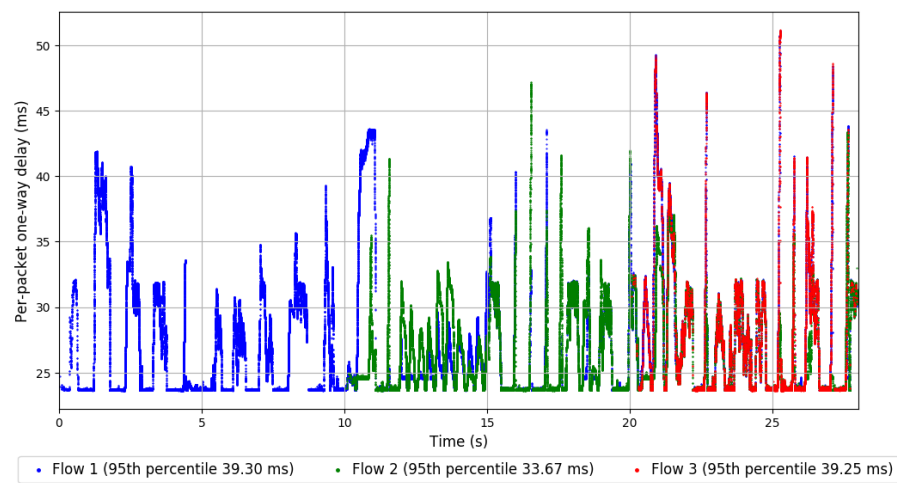
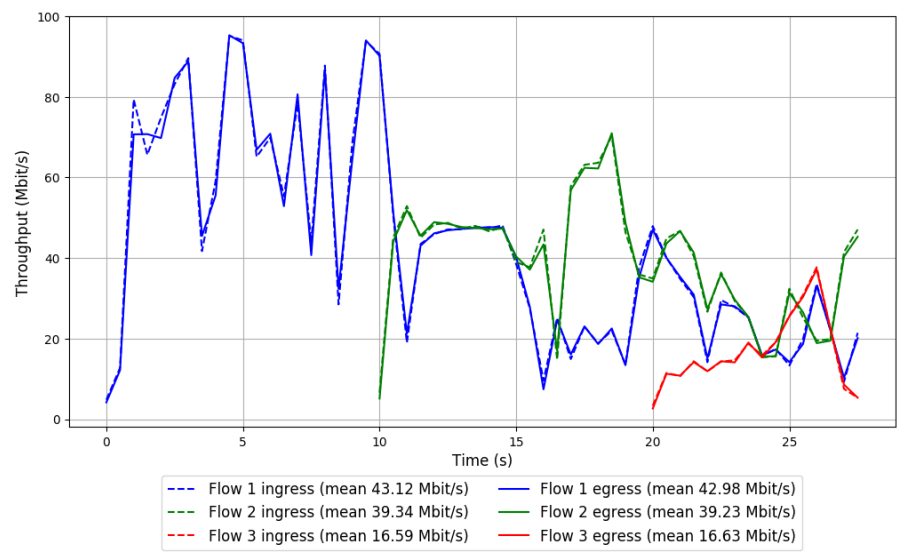


Run 1: Statistics of Copa

Start at: 2017-12-11 20:00:48
End at: 2017-12-11 20:01:18
Local clock offset: -0.929 ms
Remote clock offset: -3.329 ms

Below is generated by plot.py at 2017-12-12 03:30:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 72.85 Mbit/s
95th percentile per-packet one-way delay: 37.401 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 42.98 Mbit/s
95th percentile per-packet one-way delay: 39.303 ms
Loss rate: 0.50%
-- Flow 2:
Average throughput: 39.23 Mbit/s
95th percentile per-packet one-way delay: 33.668 ms
Loss rate: 0.56%
-- Flow 3:
Average throughput: 16.63 Mbit/s
95th percentile per-packet one-way delay: 39.253 ms
Loss rate: 0.51%

Run 1: Report of Copa — Data Link

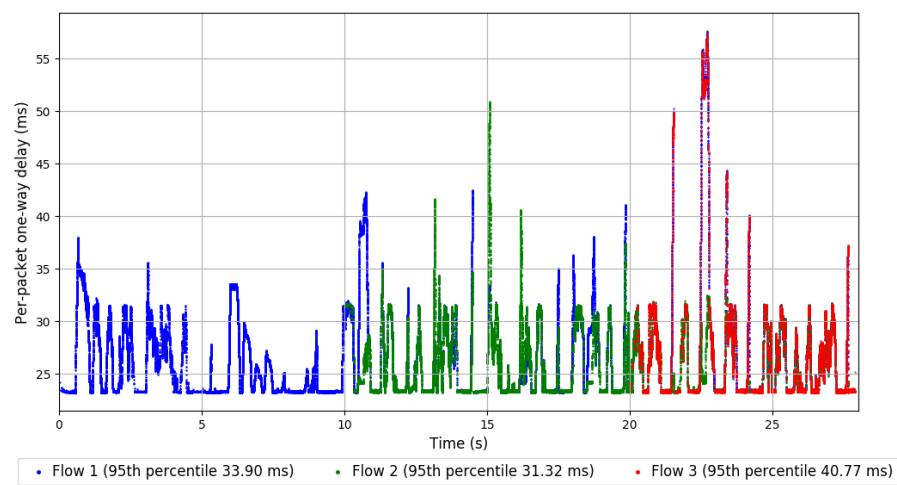
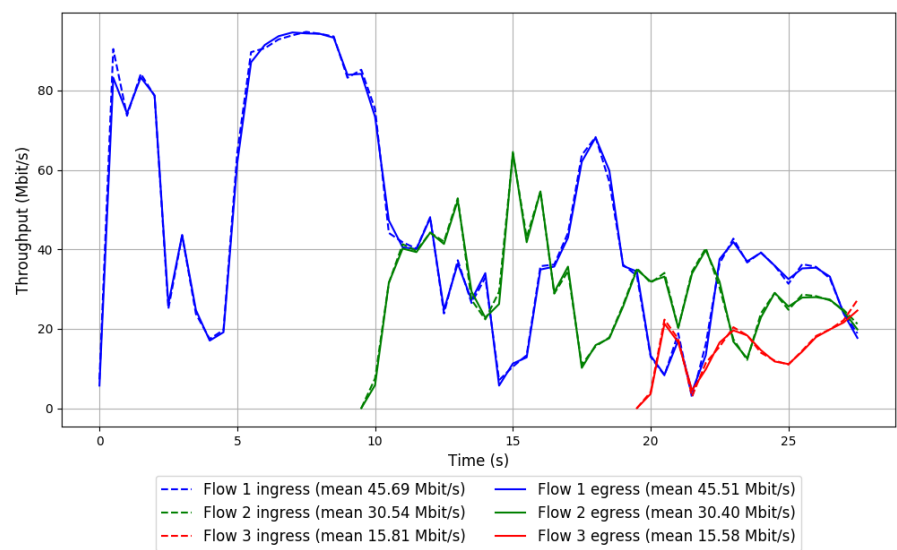


Run 2: Statistics of Copa

Start at: 2017-12-11 20:20:15
End at: 2017-12-11 20:20:45
Local clock offset: -1.387 ms
Remote clock offset: -2.643 ms

Below is generated by plot.py at 2017-12-12 03:30:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 69.46 Mbit/s
95th percentile per-packet one-way delay: 33.395 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 45.51 Mbit/s
95th percentile per-packet one-way delay: 33.899 ms
Loss rate: 0.59%
-- Flow 2:
Average throughput: 30.40 Mbit/s
95th percentile per-packet one-way delay: 31.324 ms
Loss rate: 0.79%
-- Flow 3:
Average throughput: 15.58 Mbit/s
95th percentile per-packet one-way delay: 40.775 ms
Loss rate: 2.15%

Run 2: Report of Copa — Data Link

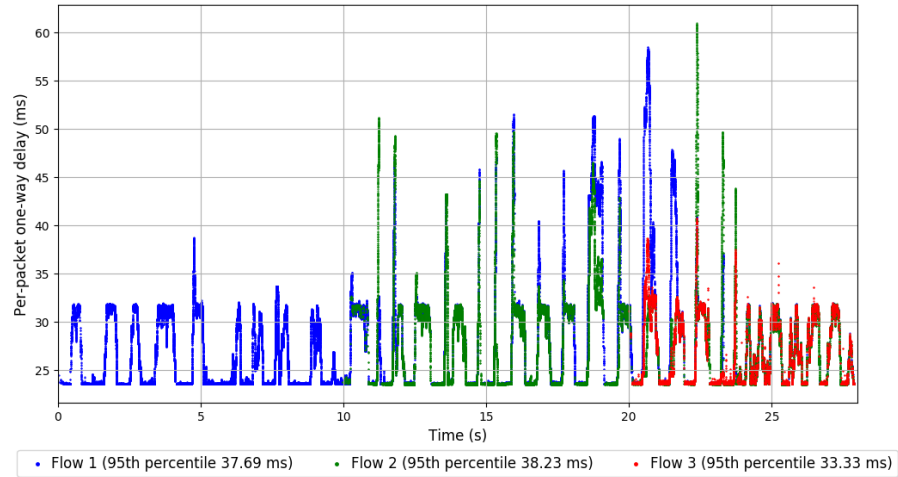
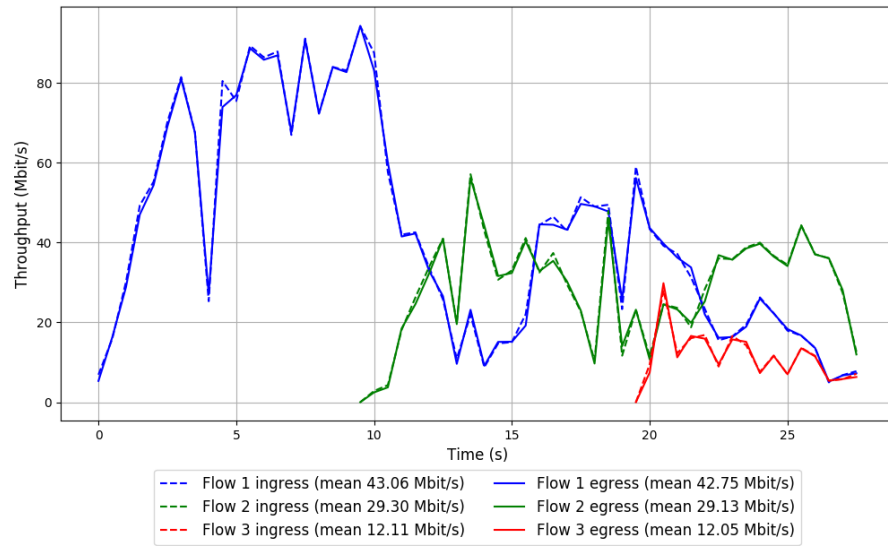


Run 3: Statistics of Copa

Start at: 2017-12-11 20:40:11
End at: 2017-12-11 20:40:41
Local clock offset: -1.272 ms
Remote clock offset: -2.591 ms

Below is generated by plot.py at 2017-12-12 03:30:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 64.88 Mbit/s
95th percentile per-packet one-way delay: 37.308 ms
Loss rate: 0.92%
-- Flow 1:
Average throughput: 42.75 Mbit/s
95th percentile per-packet one-way delay: 37.688 ms
Loss rate: 0.92%
-- Flow 2:
Average throughput: 29.13 Mbit/s
95th percentile per-packet one-way delay: 38.233 ms
Loss rate: 0.87%
-- Flow 3:
Average throughput: 12.05 Mbit/s
95th percentile per-packet one-way delay: 33.329 ms
Loss rate: 1.27%

Run 3: Report of Copa — Data Link

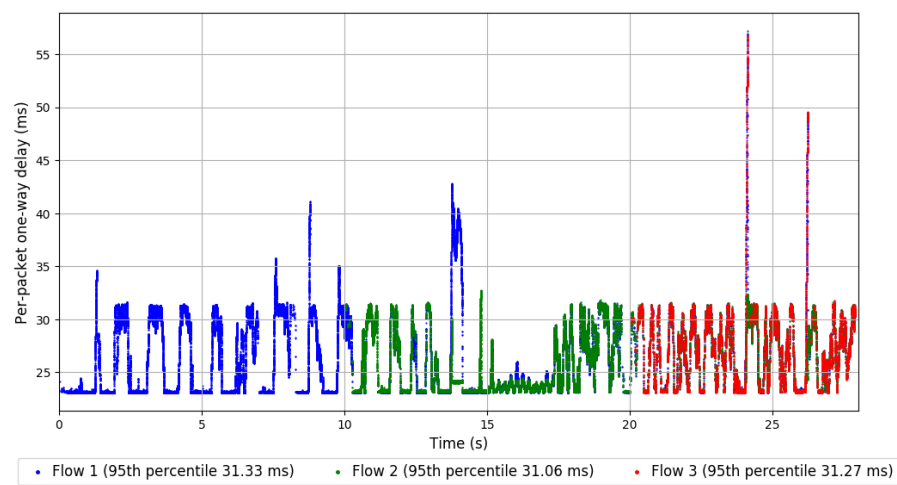
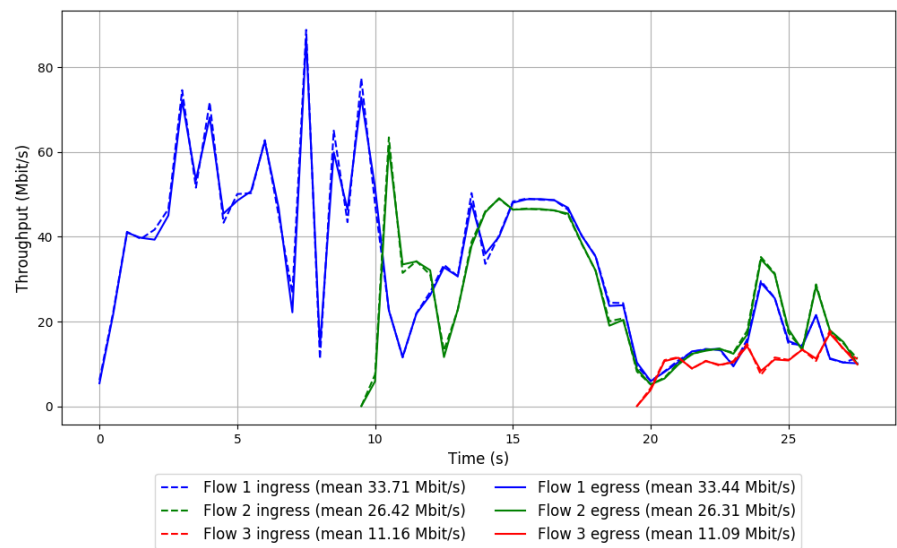


Run 4: Statistics of Copa

Start at: 2017-12-11 20:59:59
End at: 2017-12-11 21:00:29
Local clock offset: -1.022 ms
Remote clock offset: -1.268 ms

Below is generated by plot.py at 2017-12-12 03:30:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 53.49 Mbit/s
95th percentile per-packet one-way delay: 31.251 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 33.44 Mbit/s
95th percentile per-packet one-way delay: 31.331 ms
Loss rate: 0.97%
-- Flow 2:
Average throughput: 26.31 Mbit/s
95th percentile per-packet one-way delay: 31.064 ms
Loss rate: 0.73%
-- Flow 3:
Average throughput: 11.09 Mbit/s
95th percentile per-packet one-way delay: 31.272 ms
Loss rate: 1.28%

Run 4: Report of Copa — Data Link

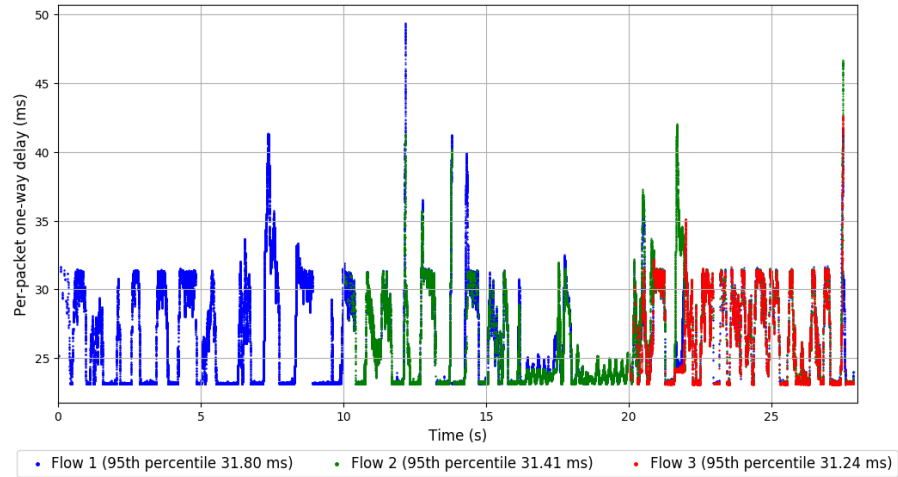
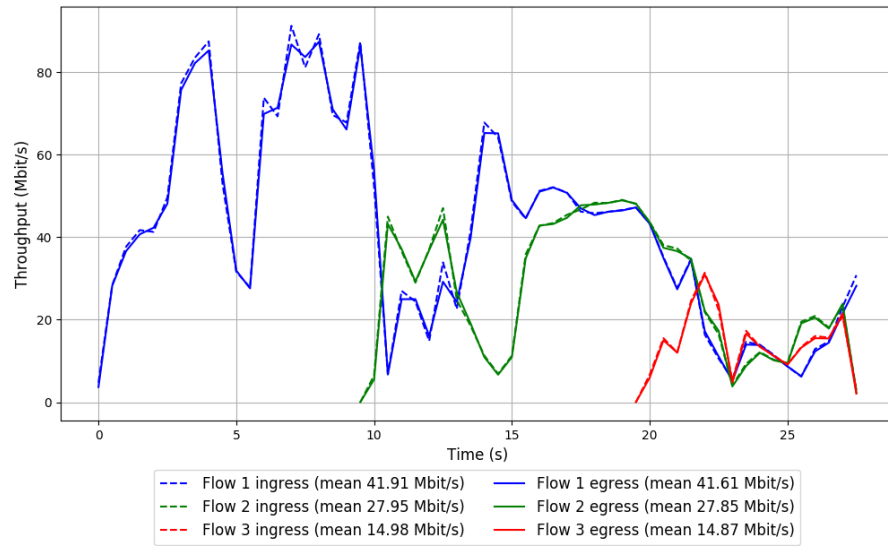


Run 5: Statistics of Copa

Start at: 2017-12-11 21:19:54
End at: 2017-12-11 21:20:24
Local clock offset: -0.619 ms
Remote clock offset: -0.253 ms

Below is generated by plot.py at 2017-12-12 03:31:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 63.72 Mbit/s
95th percentile per-packet one-way delay: 31.479 ms
Loss rate: 0.88%
-- Flow 1:
Average throughput: 41.61 Mbit/s
95th percentile per-packet one-way delay: 31.801 ms
Loss rate: 0.91%
-- Flow 2:
Average throughput: 27.85 Mbit/s
95th percentile per-packet one-way delay: 31.407 ms
Loss rate: 0.67%
-- Flow 3:
Average throughput: 14.87 Mbit/s
95th percentile per-packet one-way delay: 31.244 ms
Loss rate: 1.47%

Run 5: Report of Copa — Data Link

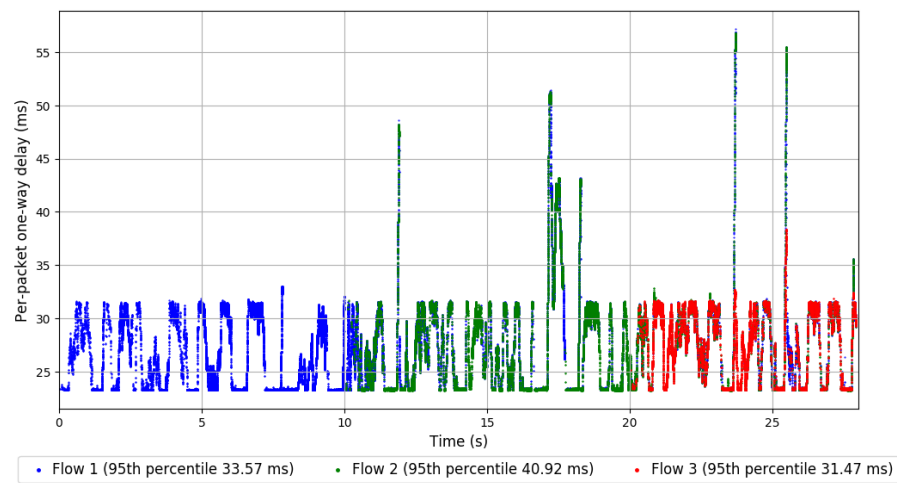
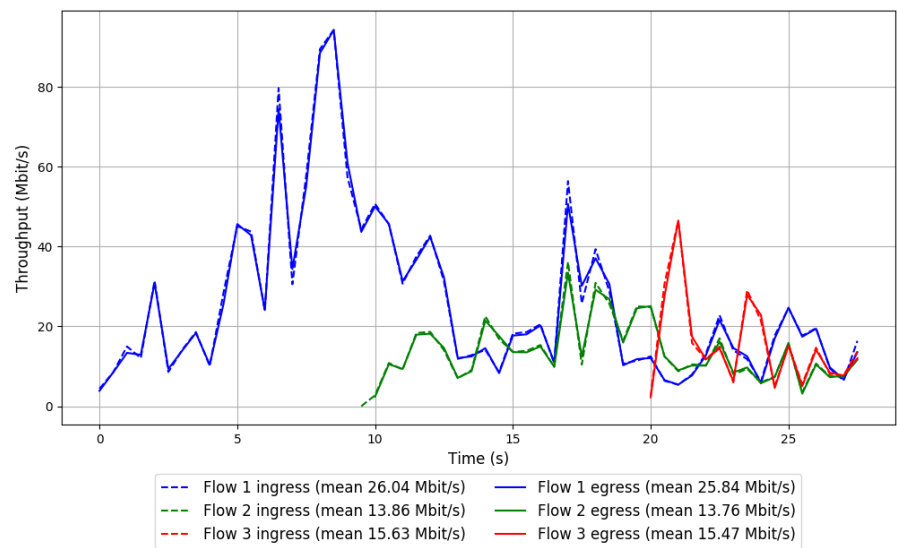


Run 6: Statistics of Copa

Start at: 2017-12-11 21:40:34
End at: 2017-12-11 21:41:04
Local clock offset: -0.178 ms
Remote clock offset: 0.69 ms

```
# Below is generated by plot.py at 2017-12-12 03:31:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 39.05 Mbit/s
95th percentile per-packet one-way delay: 34.453 ms
Loss rate: 1.05%
-- Flow 1:
Average throughput: 25.84 Mbit/s
95th percentile per-packet one-way delay: 33.571 ms
Loss rate: 0.96%
-- Flow 2:
Average throughput: 13.76 Mbit/s
95th percentile per-packet one-way delay: 40.923 ms
Loss rate: 1.00%
-- Flow 3:
Average throughput: 15.47 Mbit/s
95th percentile per-packet one-way delay: 31.466 ms
Loss rate: 1.70%
```


Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2017-12-11 22:00:56

End at: 2017-12-11 22:01:26

Local clock offset: 0.007 ms

Remote clock offset: 0.92 ms

Below is generated by plot.py at 2017-12-12 03:31:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 59.38 Mbit/s

95th percentile per-packet one-way delay: 38.767 ms

Loss rate: 1.23%

-- Flow 1:

Average throughput: 36.86 Mbit/s

95th percentile per-packet one-way delay: 34.776 ms

Loss rate: 1.30%

-- Flow 2:

Average throughput: 27.91 Mbit/s

95th percentile per-packet one-way delay: 40.437 ms

Loss rate: 0.96%

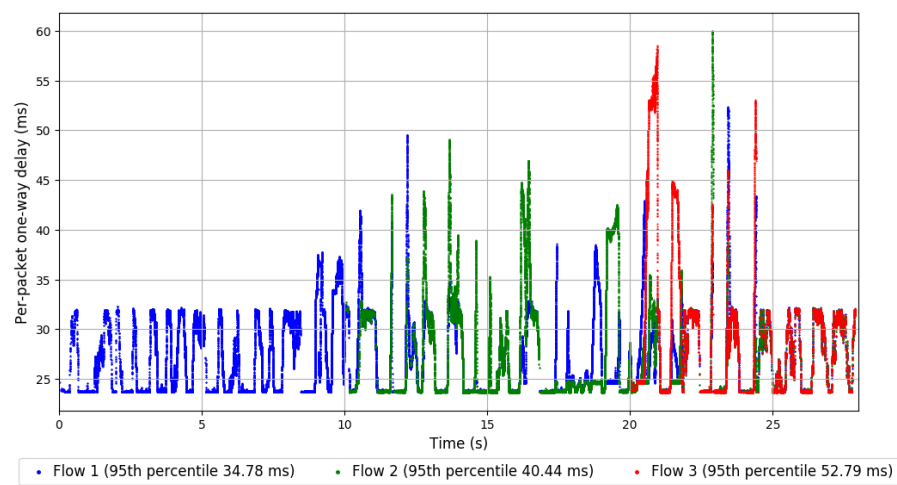
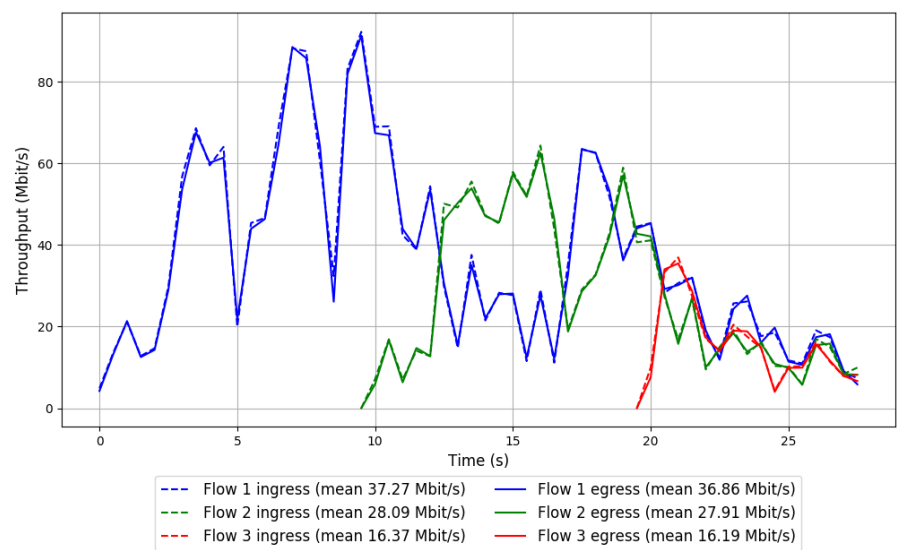
-- Flow 3:

Average throughput: 16.19 Mbit/s

95th percentile per-packet one-way delay: 52.791 ms

Loss rate: 1.74%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2017-12-11 22:22:06

End at: 2017-12-11 22:22:36

Local clock offset: -0.28 ms

Remote clock offset: 1.052 ms

Below is generated by plot.py at 2017-12-12 03:31:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 35.65 Mbit/s

95th percentile per-packet one-way delay: 35.783 ms

Loss rate: 2.25%

-- Flow 1:

Average throughput: 19.16 Mbit/s

95th percentile per-packet one-way delay: 31.791 ms

Loss rate: 2.33%

-- Flow 2:

Average throughput: 21.58 Mbit/s

95th percentile per-packet one-way delay: 42.508 ms

Loss rate: 1.96%

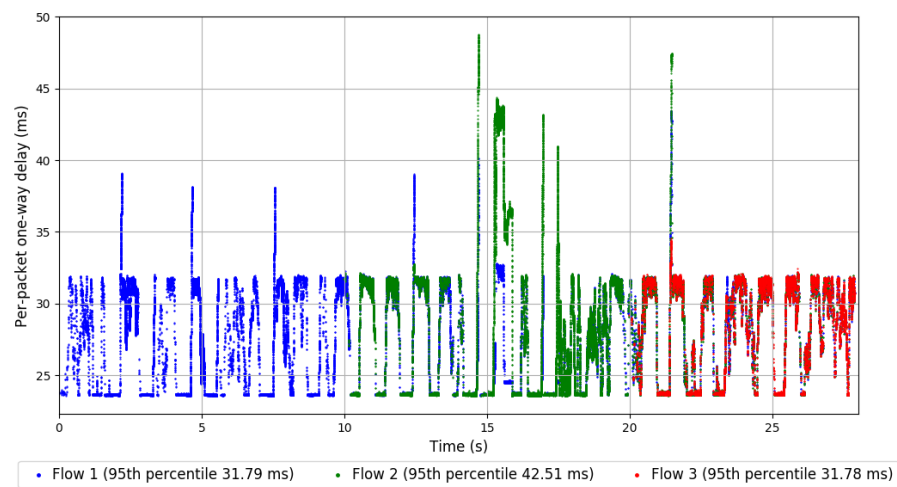
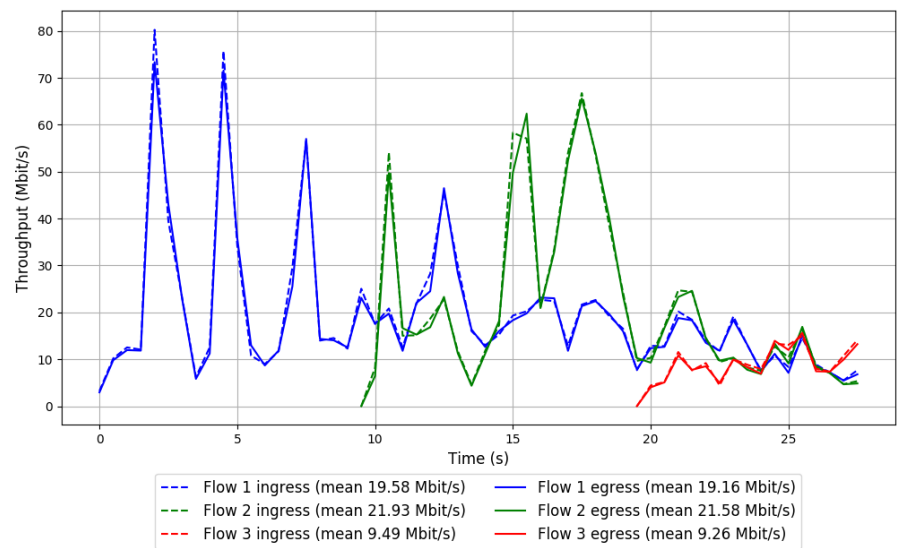
-- Flow 3:

Average throughput: 9.26 Mbit/s

95th percentile per-packet one-way delay: 31.783 ms

Loss rate: 3.22%

Run 8: Report of Copa — Data Link

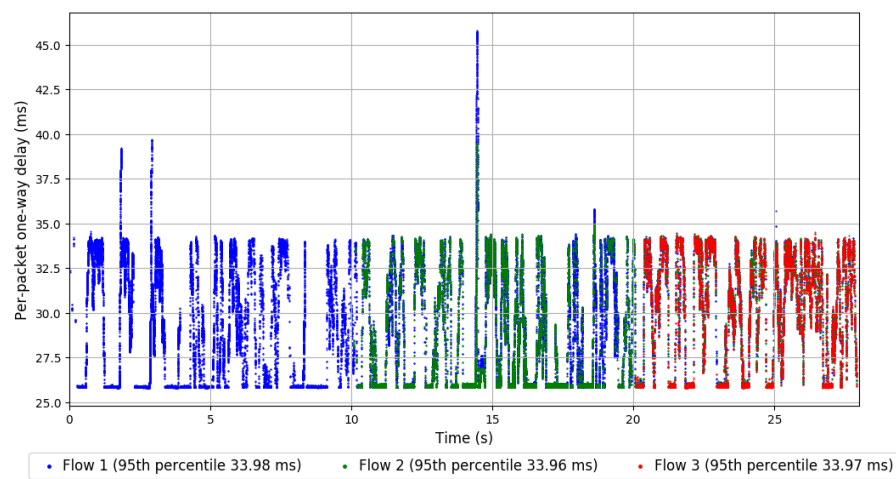
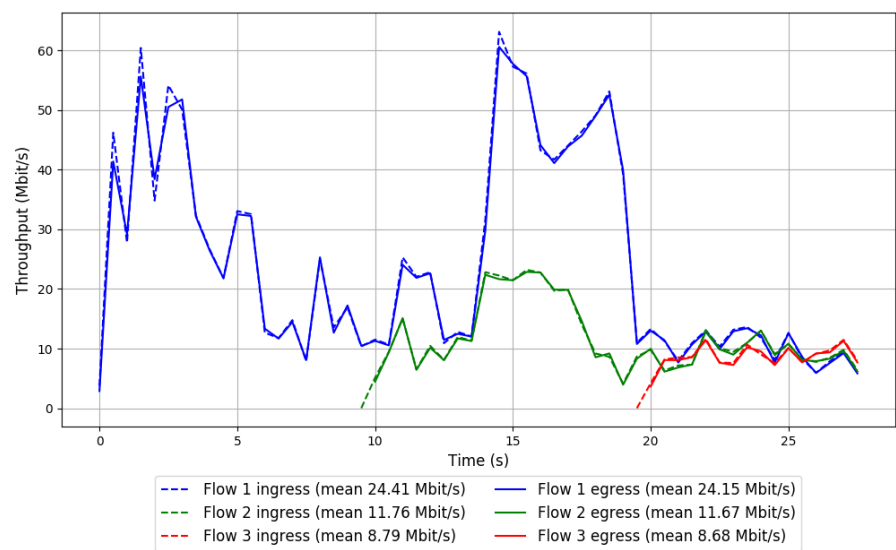


Run 9: Statistics of Copa

Start at: 2017-12-11 22:43:13
End at: 2017-12-11 22:43:43
Local clock offset: -0.632 ms
Remote clock offset: -0.644 ms

Below is generated by plot.py at 2017-12-12 03:31:45
Datalink statistics
-- Total of 3 flows:
Average throughput: 34.10 Mbit/s
95th percentile per-packet one-way delay: 33.973 ms
Loss rate: 1.29%
-- Flow 1:
Average throughput: 24.15 Mbit/s
95th percentile per-packet one-way delay: 33.976 ms
Loss rate: 1.28%
-- Flow 2:
Average throughput: 11.67 Mbit/s
95th percentile per-packet one-way delay: 33.960 ms
Loss rate: 1.09%
-- Flow 3:
Average throughput: 8.68 Mbit/s
95th percentile per-packet one-way delay: 33.971 ms
Loss rate: 1.97%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2017-12-11 23:04:22

End at: 2017-12-11 23:04:52

Local clock offset: -0.596 ms

Remote clock offset: 2.358 ms

Below is generated by plot.py at 2017-12-12 03:32:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 68.25 Mbit/s

95th percentile per-packet one-way delay: 33.422 ms

Loss rate: 0.84%

-- Flow 1:

Average throughput: 46.09 Mbit/s

95th percentile per-packet one-way delay: 33.727 ms

Loss rate: 0.66%

-- Flow 2:

Average throughput: 25.80 Mbit/s

95th percentile per-packet one-way delay: 31.482 ms

Loss rate: 1.17%

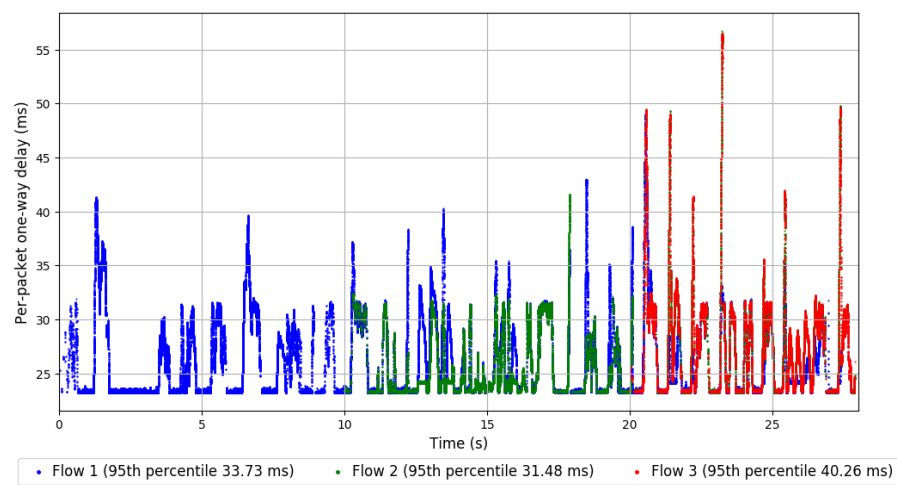
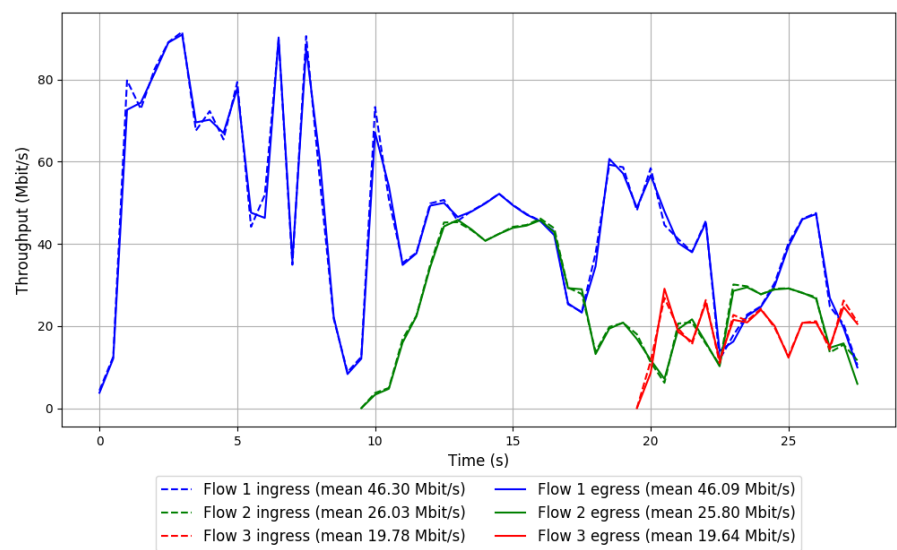
-- Flow 3:

Average throughput: 19.64 Mbit/s

95th percentile per-packet one-way delay: 40.259 ms

Loss rate: 1.36%

Run 10: Report of Copa — Data Link



Run 1: Statistics of Indigo

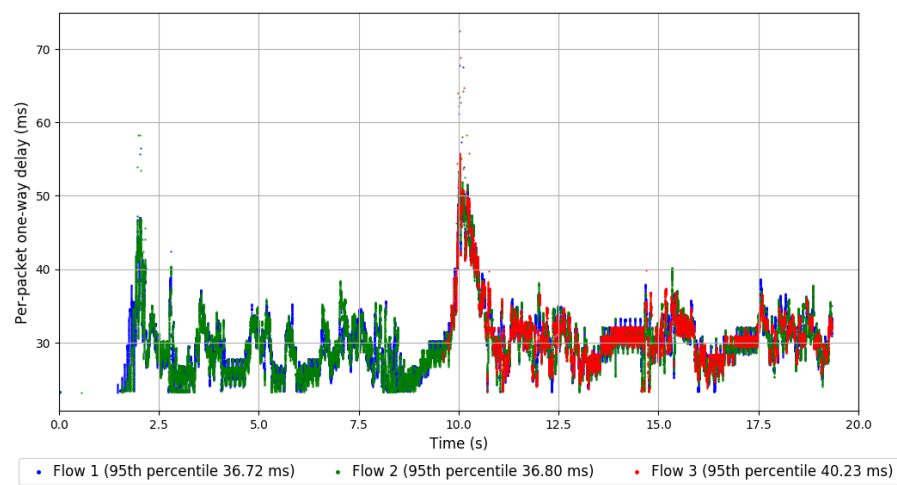
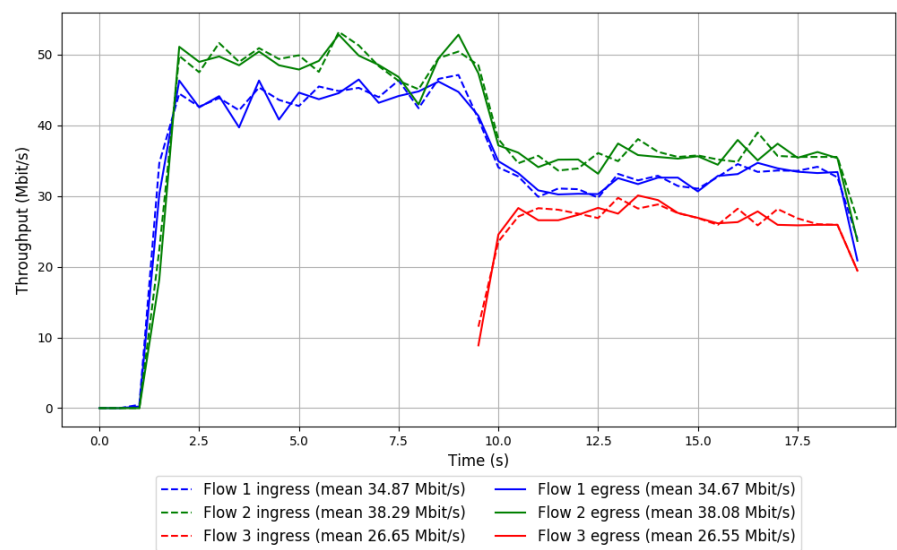
Start at: 2017-12-11 20:07:54

End at: 2017-12-11 20:08:24

Local clock offset: -1.093 ms

Remote clock offset: -2.867 ms

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

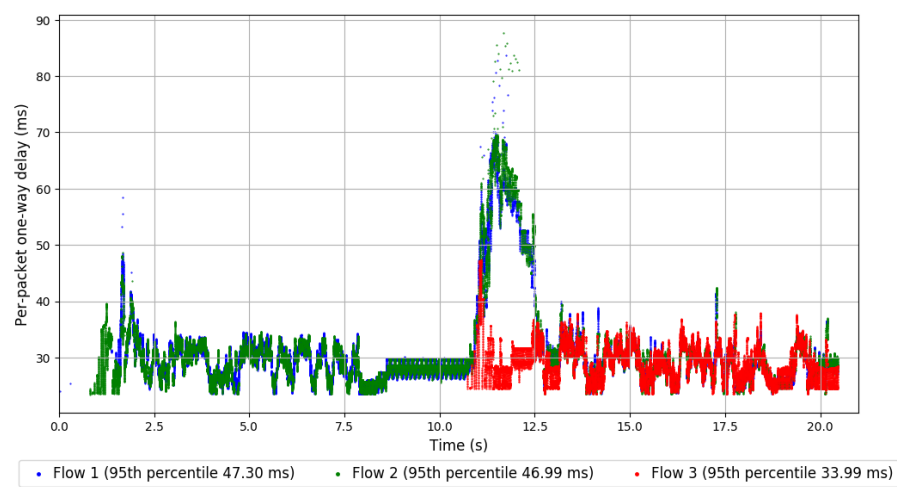
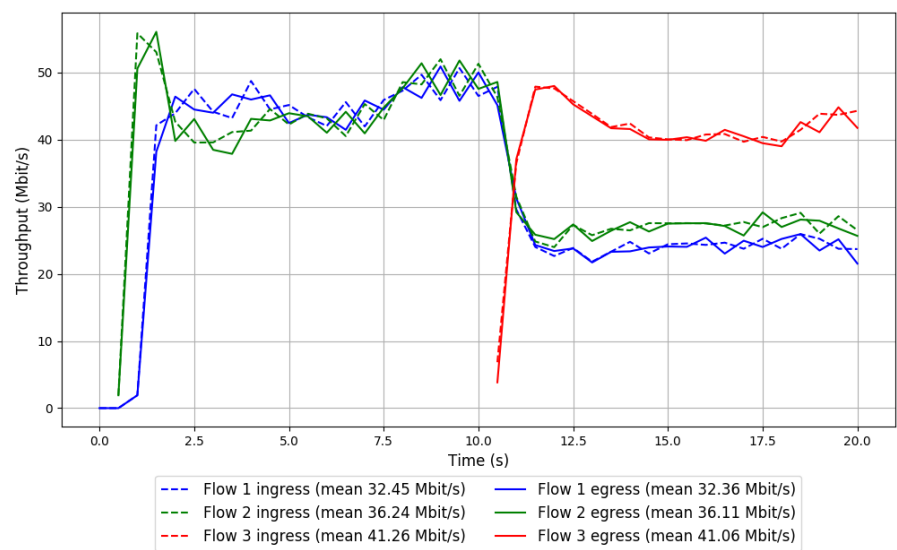
Start at: 2017-12-11 20:27:42

End at: 2017-12-11 20:28:12

Local clock offset: -1.446 ms

Remote clock offset: -2.828 ms

Run 2: Report of Indigo — Data Link

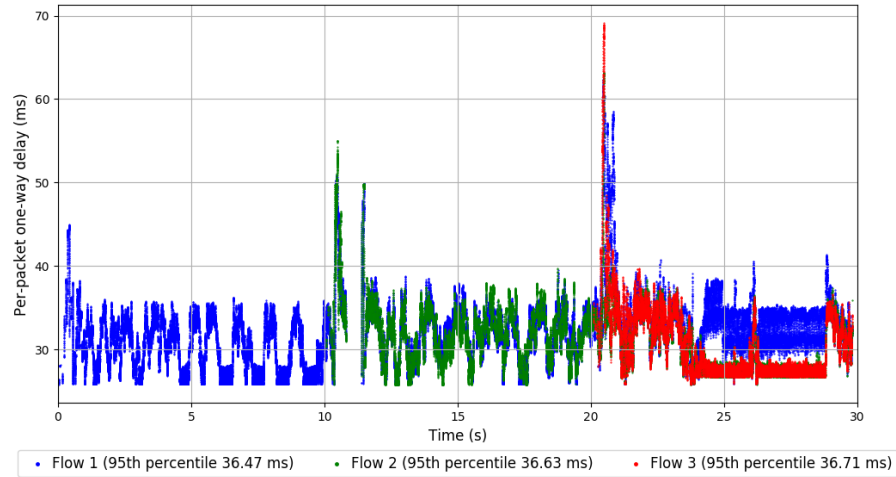
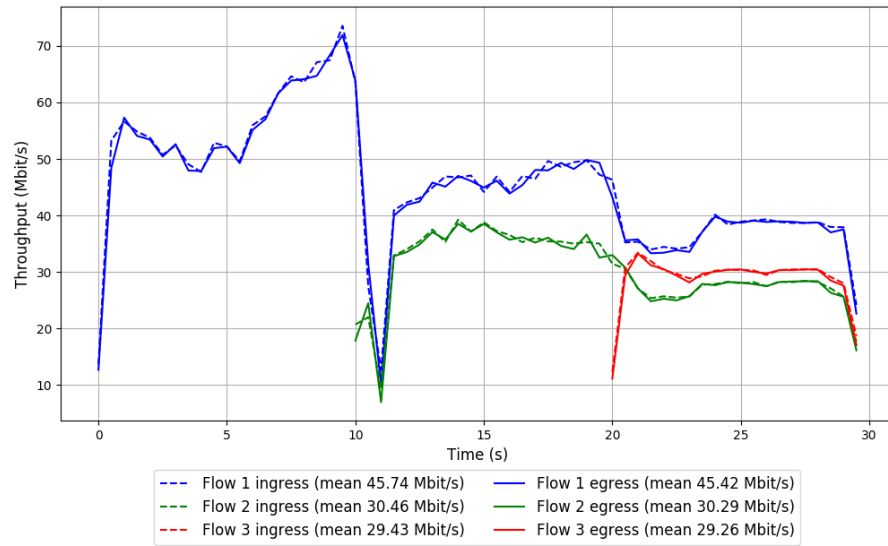


Run 3: Statistics of Indigo

Start at: 2017-12-11 20:47:32
End at: 2017-12-11 20:48:02
Local clock offset: -1.207 ms
Remote clock offset: -4.611 ms

Below is generated by plot.py at 2017-12-12 03:32:27
Datalink statistics
-- Total of 3 flows:
Average throughput: 75.04 Mbit/s
95th percentile per-packet one-way delay: 36.556 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 45.42 Mbit/s
95th percentile per-packet one-way delay: 36.471 ms
Loss rate: 0.87%
-- Flow 2:
Average throughput: 30.29 Mbit/s
95th percentile per-packet one-way delay: 36.627 ms
Loss rate: 0.85%
-- Flow 3:
Average throughput: 29.26 Mbit/s
95th percentile per-packet one-way delay: 36.711 ms
Loss rate: 1.17%

Run 3: Report of Indigo — Data Link

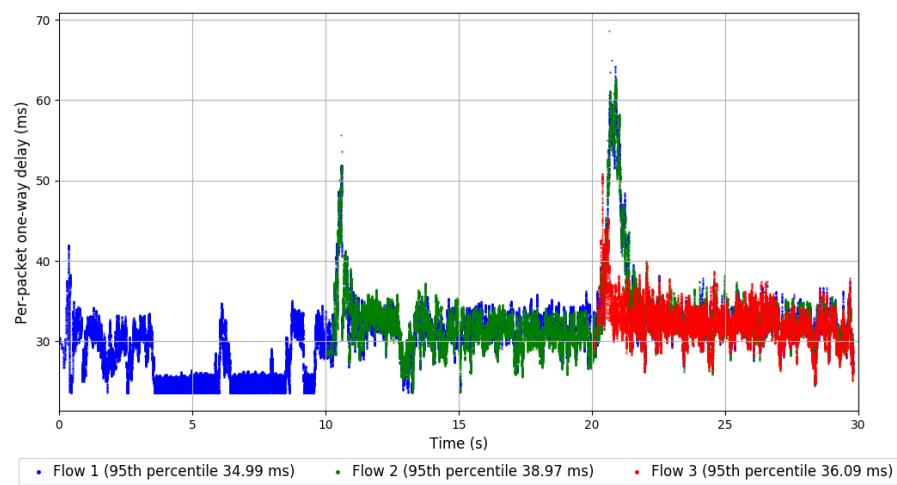
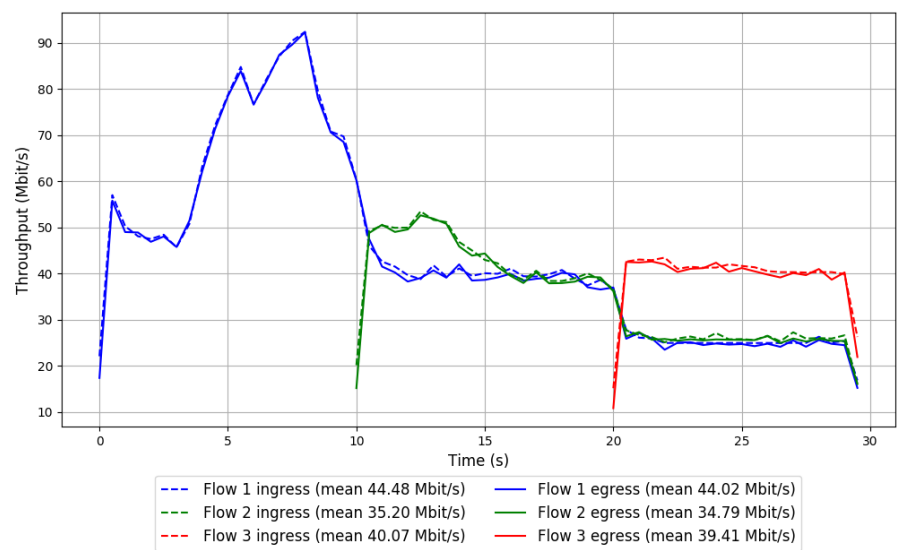


Run 4: Statistics of Indigo

Start at: 2017-12-11 21:07:14
End at: 2017-12-11 21:07:44
Local clock offset: -0.846 ms
Remote clock offset: -1.313 ms

Below is generated by plot.py at 2017-12-12 03:32:27
Datalink statistics
-- Total of 3 flows:
Average throughput: 79.93 Mbit/s
95th percentile per-packet one-way delay: 36.199 ms
Loss rate: 1.47%
-- Flow 1:
Average throughput: 44.02 Mbit/s
95th percentile per-packet one-way delay: 34.990 ms
Loss rate: 1.25%
-- Flow 2:
Average throughput: 34.79 Mbit/s
95th percentile per-packet one-way delay: 38.974 ms
Loss rate: 1.48%
-- Flow 3:
Average throughput: 39.41 Mbit/s
95th percentile per-packet one-way delay: 36.095 ms
Loss rate: 2.23%

Run 4: Report of Indigo — Data Link

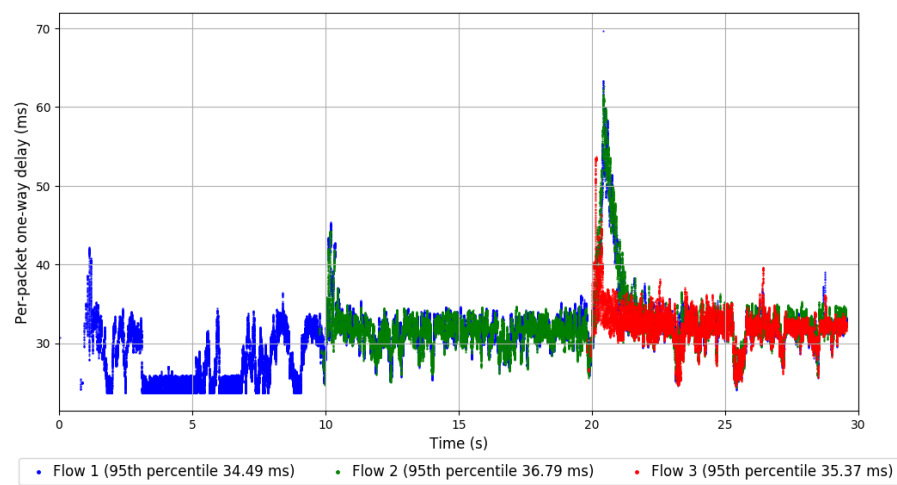
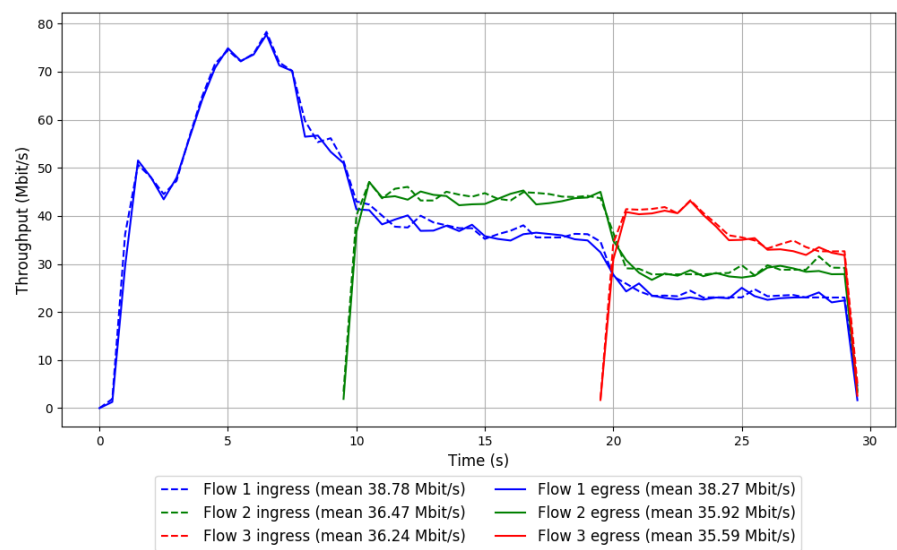


Run 5: Statistics of Indigo

Start at: 2017-12-11 21:27:46
End at: 2017-12-11 21:28:16
Local clock offset: -0.405 ms
Remote clock offset: -0.385 ms

Below is generated by plot.py at 2017-12-12 03:32:27
Datalink statistics
-- Total of 3 flows:
Average throughput: 74.02 Mbit/s
95th percentile per-packet one-way delay: 35.184 ms
Loss rate: 1.74%
-- Flow 1:
Average throughput: 38.27 Mbit/s
95th percentile per-packet one-way delay: 34.486 ms
Loss rate: 1.50%
-- Flow 2:
Average throughput: 35.92 Mbit/s
95th percentile per-packet one-way delay: 36.789 ms
Loss rate: 1.81%
-- Flow 3:
Average throughput: 35.59 Mbit/s
95th percentile per-packet one-way delay: 35.374 ms
Loss rate: 2.40%

Run 5: Report of Indigo — Data Link

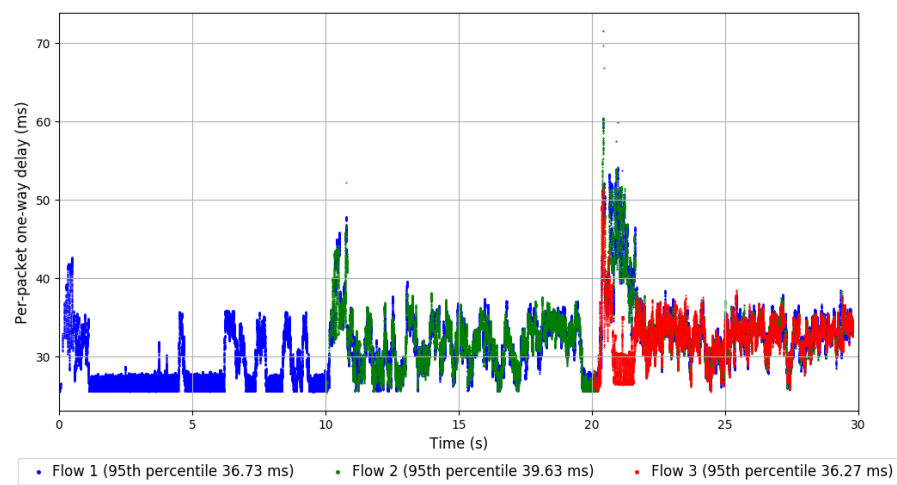
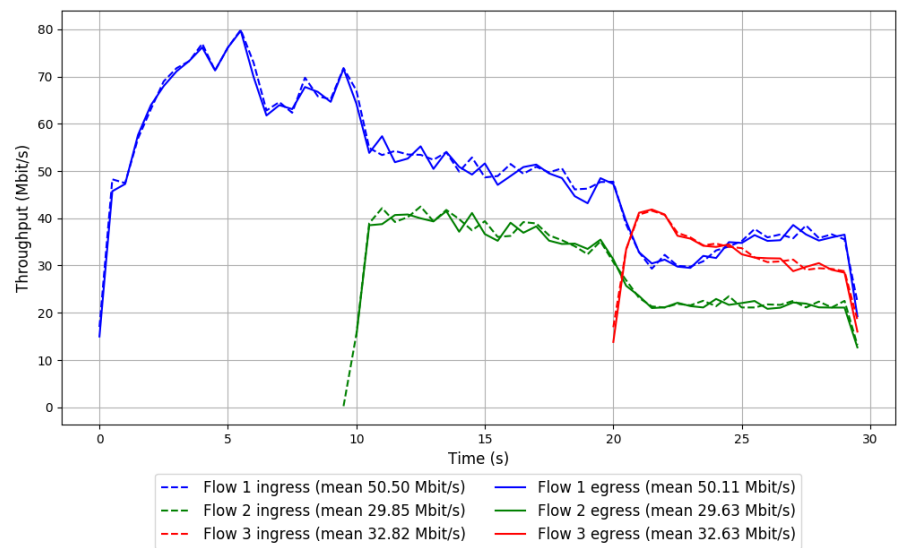


Run 6: Statistics of Indigo

Start at: 2017-12-11 21:48:20
End at: 2017-12-11 21:48:50
Local clock offset: -0.055 ms
Remote clock offset: -1.415 ms

Below is generated by plot.py at 2017-12-12 03:32:48
Datalink statistics
-- Total of 3 flows:
Average throughput: 80.42 Mbit/s
95th percentile per-packet one-way delay: 37.121 ms
Loss rate: 0.98%
-- Flow 1:
Average throughput: 50.11 Mbit/s
95th percentile per-packet one-way delay: 36.726 ms
Loss rate: 0.95%
-- Flow 2:
Average throughput: 29.63 Mbit/s
95th percentile per-packet one-way delay: 39.635 ms
Loss rate: 0.99%
-- Flow 3:
Average throughput: 32.63 Mbit/s
95th percentile per-packet one-way delay: 36.271 ms
Loss rate: 1.12%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2017-12-11 22:08:54

End at: 2017-12-11 22:09:24

Local clock offset: -0.015 ms

Remote clock offset: 0.953 ms

Below is generated by plot.py at 2017-12-12 03:32:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 83.71 Mbit/s

95th percentile per-packet one-way delay: 36.642 ms

Loss rate: 1.90%

-- Flow 1:

Average throughput: 49.28 Mbit/s

95th percentile per-packet one-way delay: 36.222 ms

Loss rate: 1.73%

-- Flow 2:

Average throughput: 36.42 Mbit/s

95th percentile per-packet one-way delay: 35.552 ms

Loss rate: 1.84%

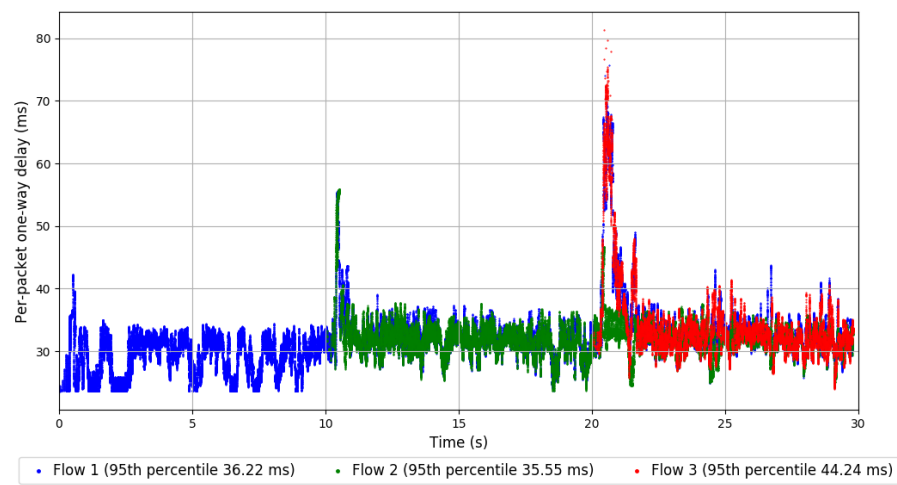
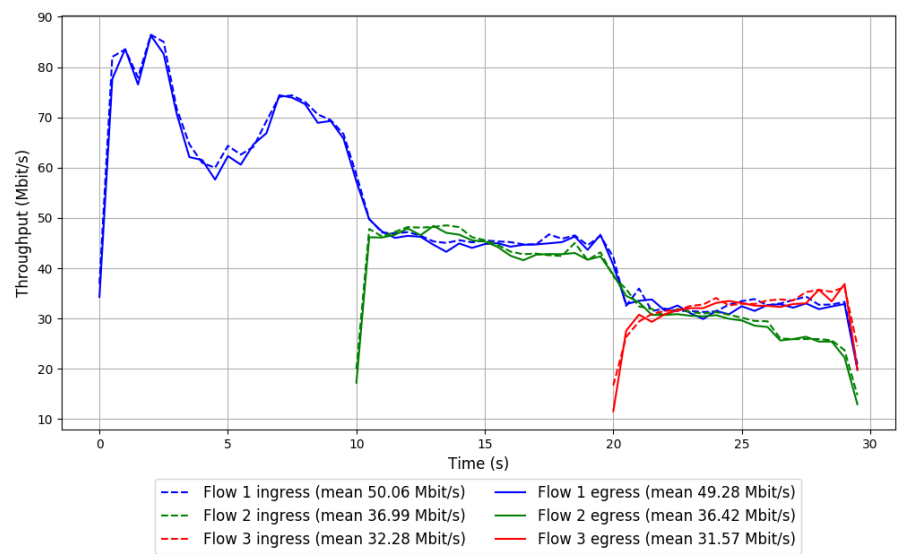
-- Flow 3:

Average throughput: 31.57 Mbit/s

95th percentile per-packet one-way delay: 44.241 ms

Loss rate: 2.81%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2017-12-11 22:30:17

End at: 2017-12-11 22:30:47

Local clock offset: -0.357 ms

Remote clock offset: 1.549 ms

Below is generated by plot.py at 2017-12-12 03:32:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 70.76 Mbit/s

95th percentile per-packet one-way delay: 34.448 ms

Loss rate: 2.60%

-- Flow 1:

Average throughput: 44.25 Mbit/s

95th percentile per-packet one-way delay: 34.287 ms

Loss rate: 2.41%

-- Flow 2:

Average throughput: 27.37 Mbit/s

95th percentile per-packet one-way delay: 33.896 ms

Loss rate: 2.83%

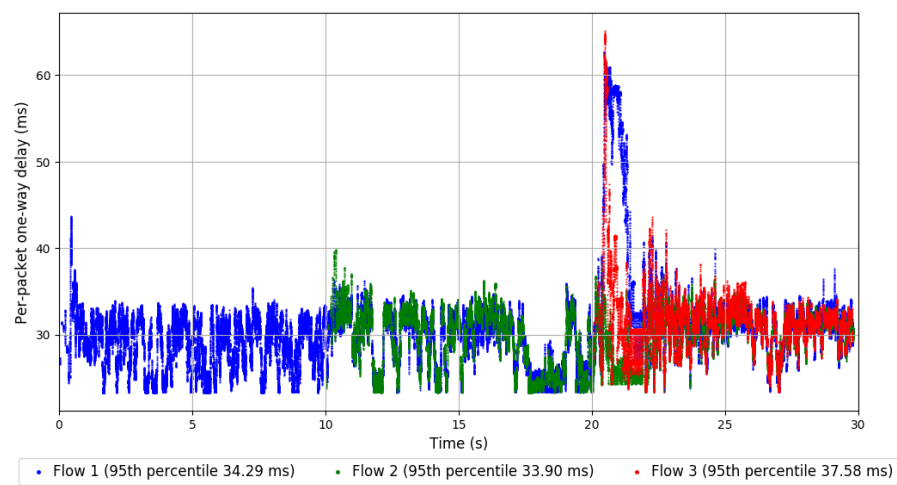
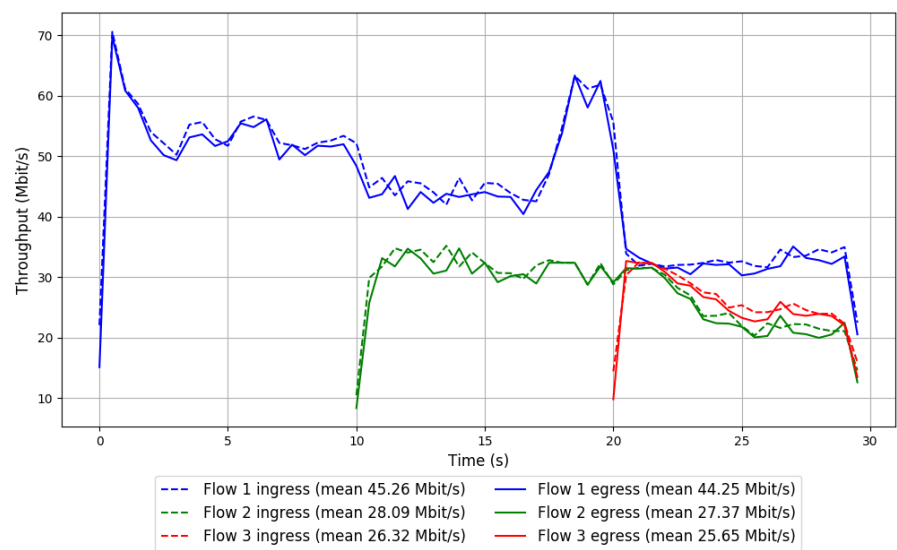
-- Flow 3:

Average throughput: 25.65 Mbit/s

95th percentile per-packet one-way delay: 37.580 ms

Loss rate: 3.11%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2017-12-11 22:51:20

End at: 2017-12-11 22:51:50

Local clock offset: -0.67 ms

Remote clock offset: 1.667 ms

Below is generated by plot.py at 2017-12-12 03:32:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 71.22 Mbit/s

95th percentile per-packet one-way delay: 35.075 ms

Loss rate: 1.68%

-- Flow 1:

Average throughput: 33.27 Mbit/s

95th percentile per-packet one-way delay: 33.549 ms

Loss rate: 1.71%

-- Flow 2:

Average throughput: 35.45 Mbit/s

95th percentile per-packet one-way delay: 34.995 ms

Loss rate: 1.61%

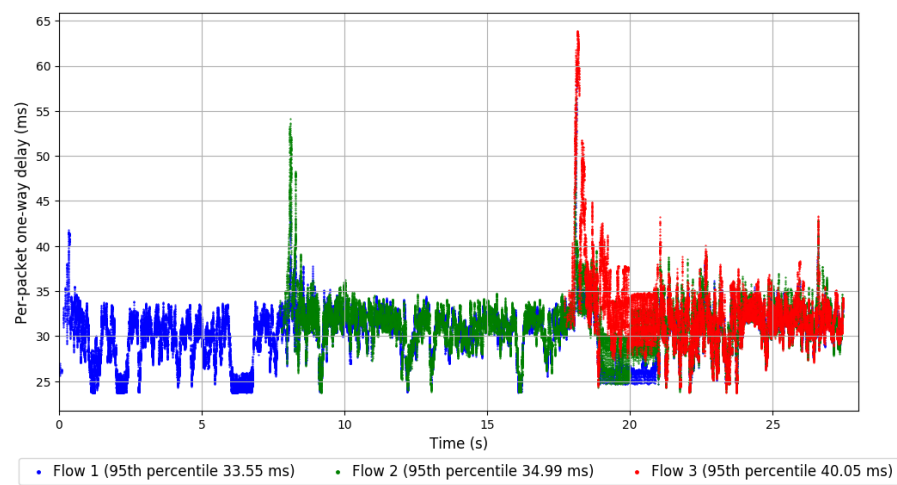
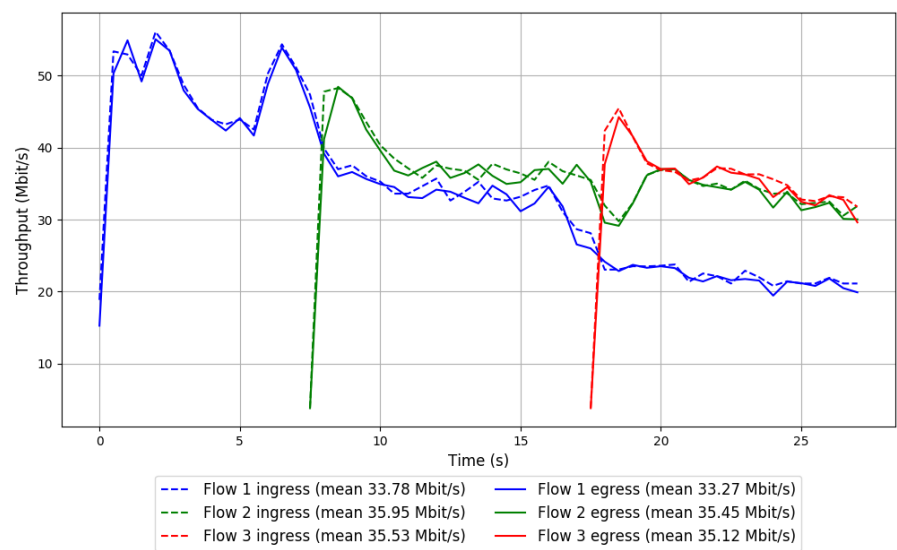
-- Flow 3:

Average throughput: 35.12 Mbit/s

95th percentile per-packet one-way delay: 40.052 ms

Loss rate: 1.79%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

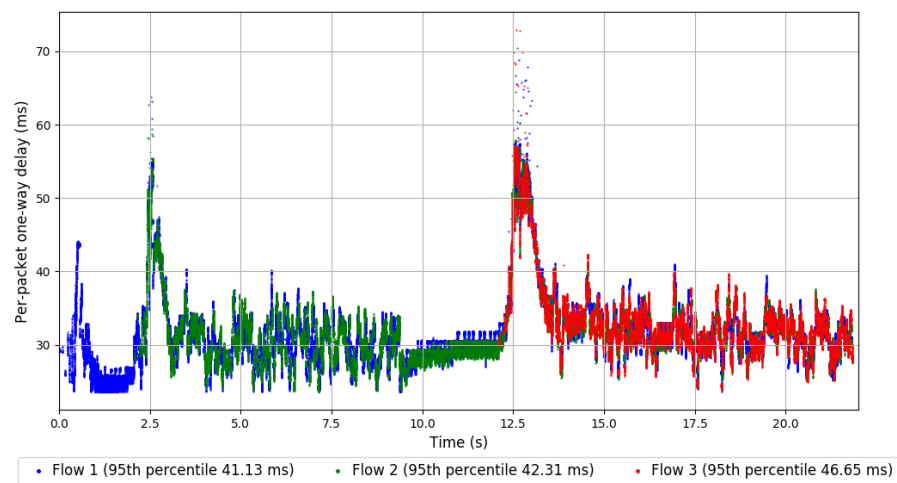
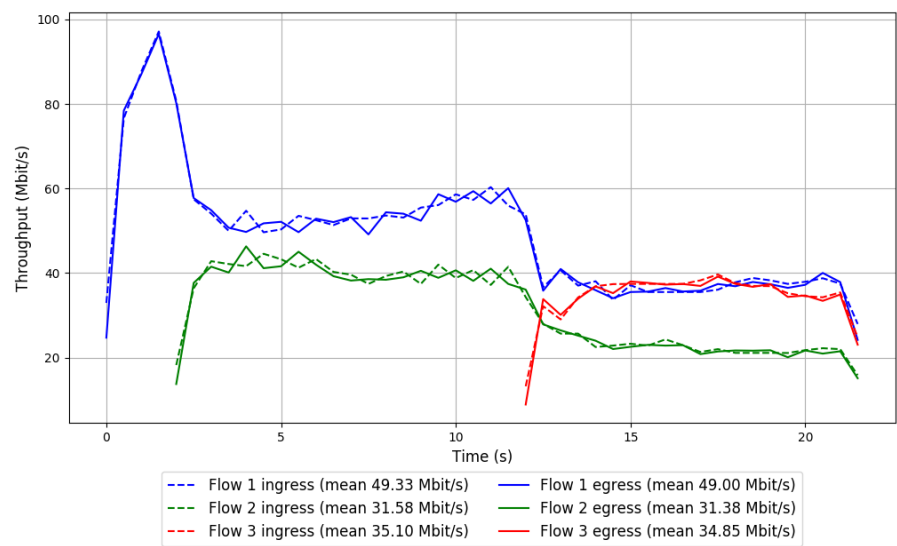
Start at: 2017-12-11 23:11:56

End at: 2017-12-11 23:12:26

Local clock offset: -0.59 ms

Remote clock offset: 2.074 ms

Run 10: Report of Indigo — Data Link

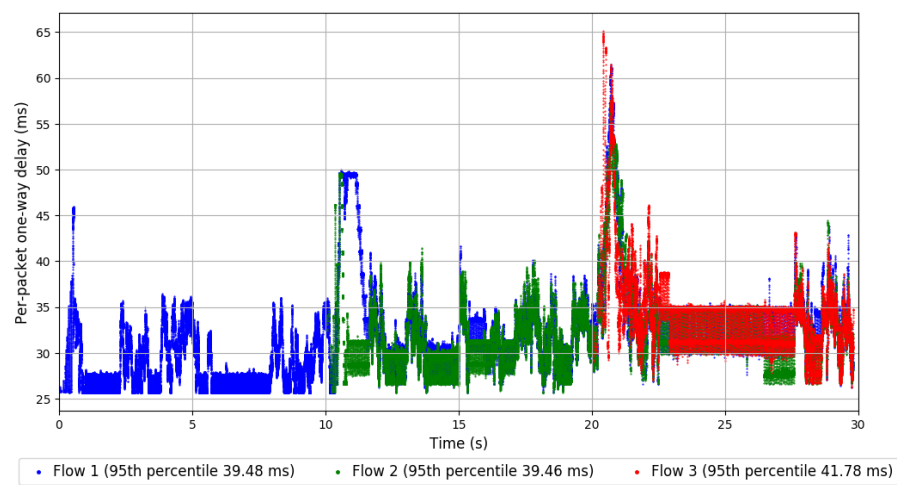
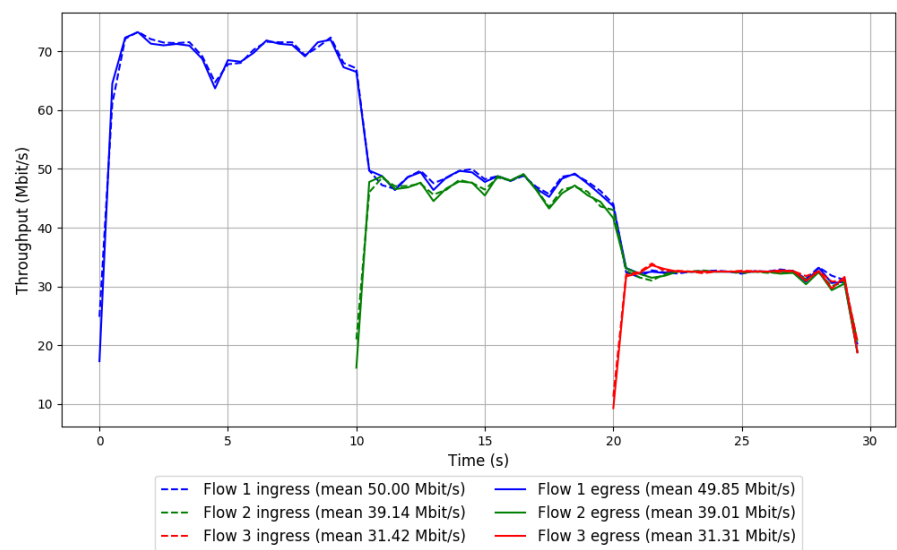


```
Run 1: Statistics of Indigo-calib

Start at: 2017-12-11 20:10:36
End at: 2017-12-11 20:11:06
Local clock offset: -1.232 ms
Remote clock offset: -5.291 ms

# Below is generated by plot.py at 2017-12-12 03:33:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.94 Mbit/s
95th percentile per-packet one-way delay: 40.016 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 49.85 Mbit/s
95th percentile per-packet one-way delay: 39.476 ms
Loss rate: 0.47%
-- Flow 2:
Average throughput: 39.01 Mbit/s
95th percentile per-packet one-way delay: 39.462 ms
Loss rate: 0.63%
-- Flow 3:
Average throughput: 31.31 Mbit/s
95th percentile per-packet one-way delay: 41.785 ms
Loss rate: 0.91%
```

Run 1: Report of Indigo-calib — Data Link

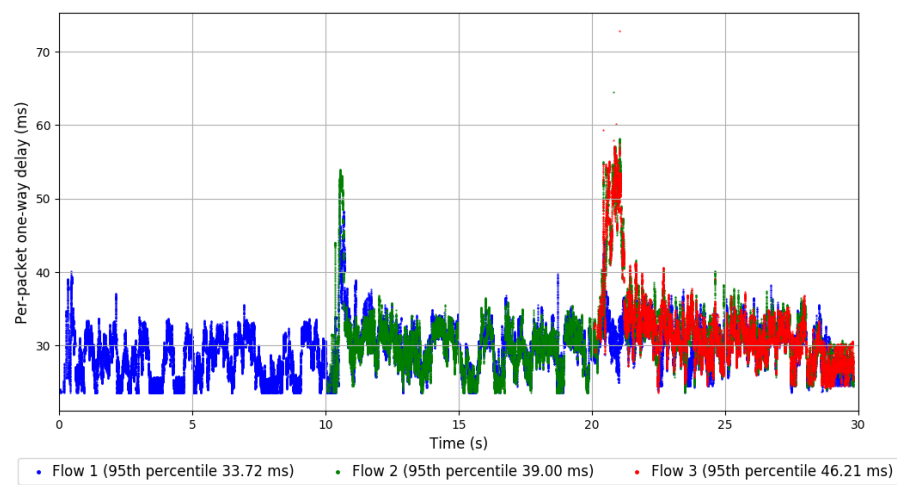
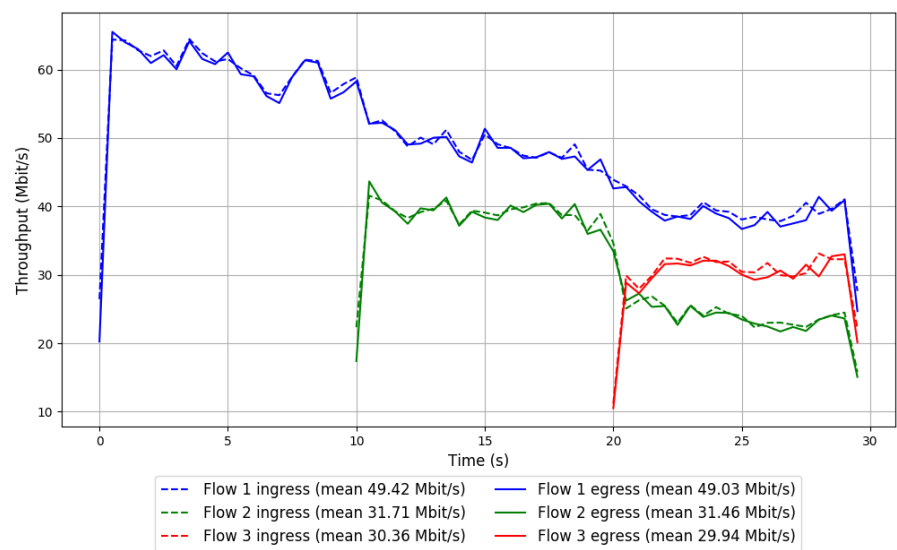


```
Run 2: Statistics of Indigo-calib

Start at: 2017-12-11 20:30:26
End at: 2017-12-11 20:30:56
Local clock offset: -1.466 ms
Remote clock offset: -2.885 ms

# Below is generated by plot.py at 2017-12-12 03:33:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 79.66 Mbit/s
95th percentile per-packet one-way delay: 35.190 ms
Loss rate: 1.12%
-- Flow 1:
Average throughput: 49.03 Mbit/s
95th percentile per-packet one-way delay: 33.716 ms
Loss rate: 0.96%
-- Flow 2:
Average throughput: 31.46 Mbit/s
95th percentile per-packet one-way delay: 39.001 ms
Loss rate: 1.07%
-- Flow 3:
Average throughput: 29.94 Mbit/s
95th percentile per-packet one-way delay: 46.212 ms
Loss rate: 2.01%
```


Run 2: Report of Indigo-calib — Data Link

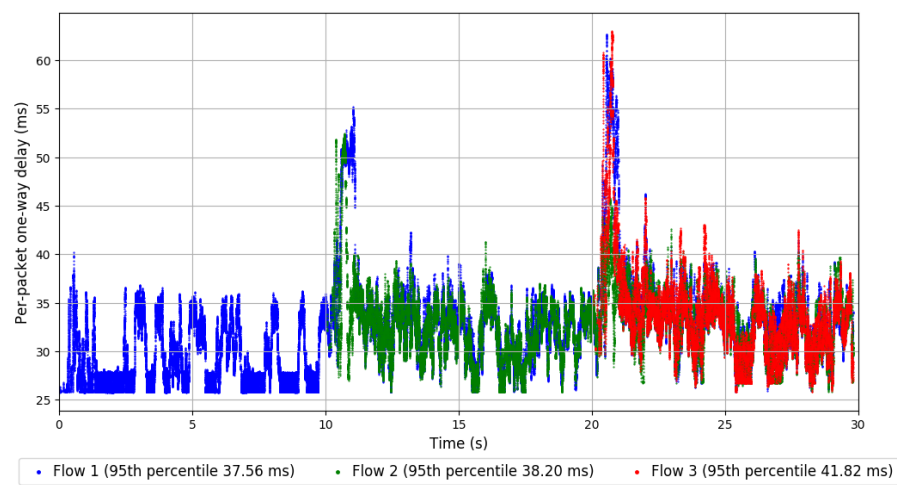
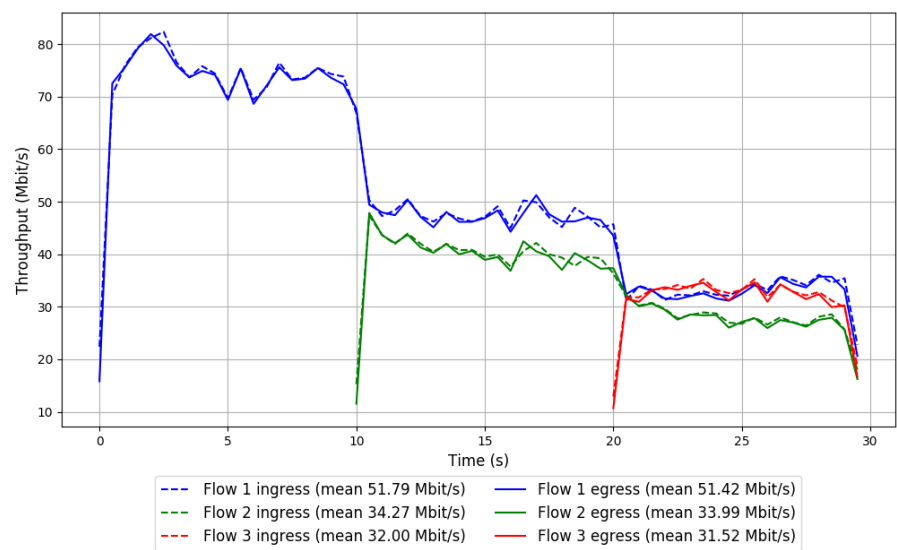


Run 3: Statistics of Indigo-calib

Start at: 2017-12-11 20:50:19
End at: 2017-12-11 20:50:49
Local clock offset: -1.088 ms
Remote clock offset: -4.397 ms

Below is generated by plot.py at 2017-12-12 03:33:44
Datalink statistics
-- Total of 3 flows:
Average throughput: 84.22 Mbit/s
95th percentile per-packet one-way delay: 38.296 ms
Loss rate: 1.08%
-- Flow 1:
Average throughput: 51.42 Mbit/s
95th percentile per-packet one-way delay: 37.565 ms
Loss rate: 0.91%
-- Flow 2:
Average throughput: 33.99 Mbit/s
95th percentile per-packet one-way delay: 38.196 ms
Loss rate: 1.13%
-- Flow 3:
Average throughput: 31.52 Mbit/s
95th percentile per-packet one-way delay: 41.822 ms
Loss rate: 1.84%

Run 3: Report of Indigo-calib — Data Link

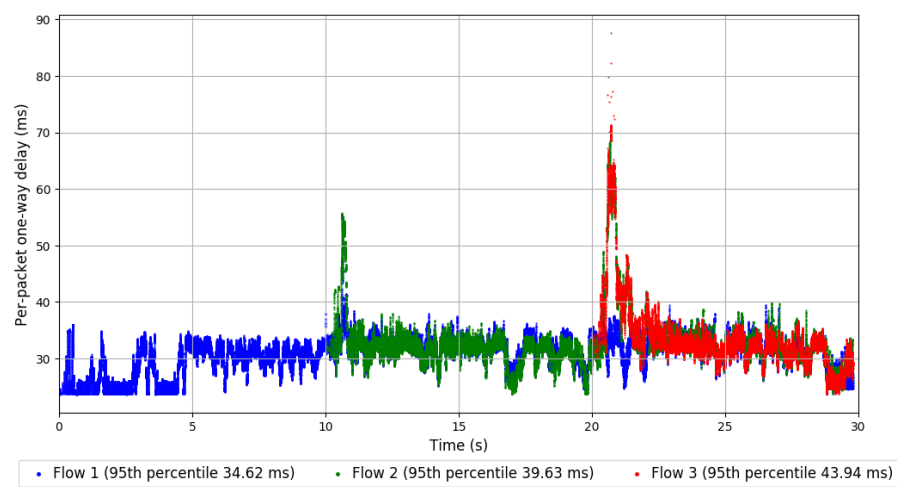
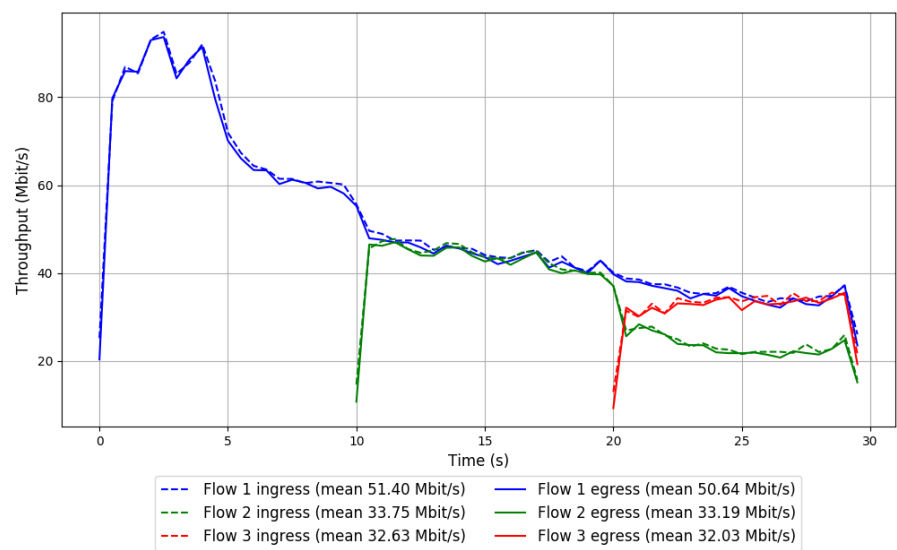


Run 4: Statistics of Indigo-calib

Start at: 2017-12-11 21:10:13
End at: 2017-12-11 21:10:43
Local clock offset: -0.784 ms
Remote clock offset: -1.118 ms

Below is generated by plot.py at 2017-12-12 03:34:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 83.08 Mbit/s
95th percentile per-packet one-way delay: 35.867 ms
Loss rate: 1.84%
-- Flow 1:
Average throughput: 50.64 Mbit/s
95th percentile per-packet one-way delay: 34.619 ms
Loss rate: 1.66%
-- Flow 2:
Average throughput: 33.19 Mbit/s
95th percentile per-packet one-way delay: 39.634 ms
Loss rate: 1.95%
-- Flow 3:
Average throughput: 32.03 Mbit/s
95th percentile per-packet one-way delay: 43.935 ms
Loss rate: 2.46%

Run 4: Report of Indigo-calib — Data Link

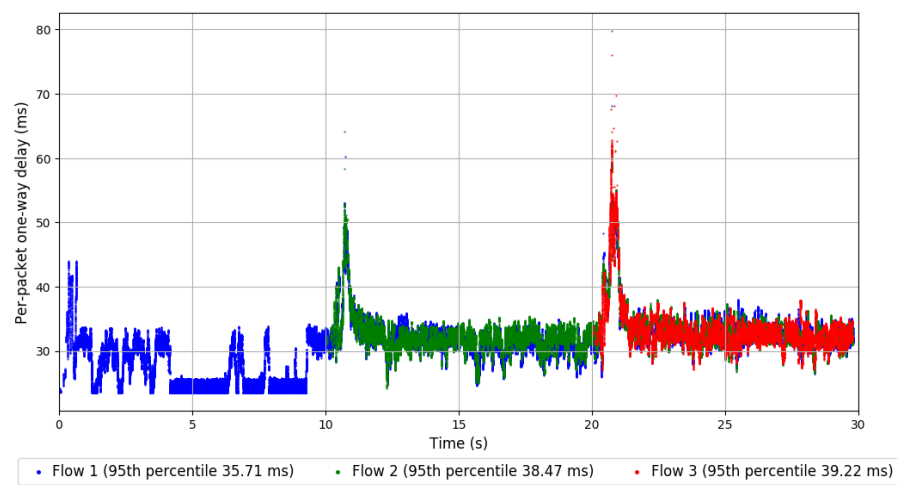
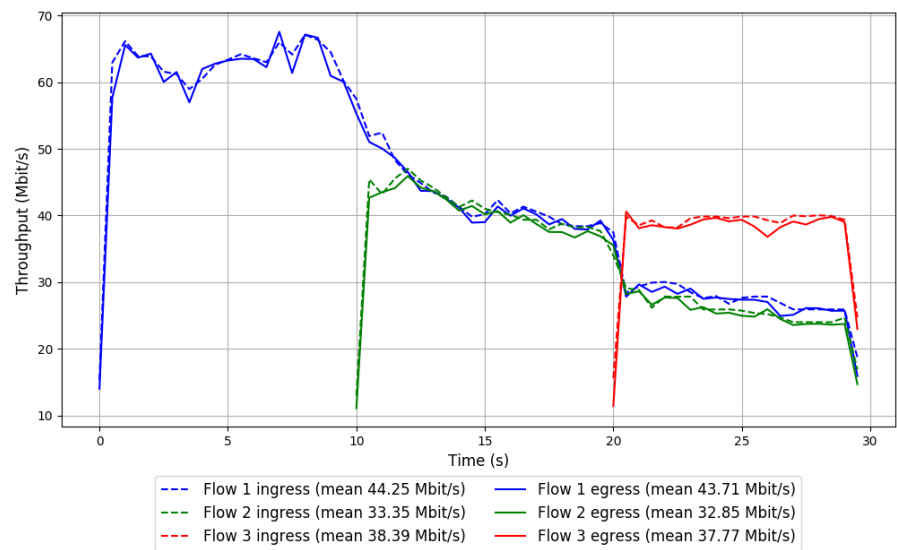


Run 5: Statistics of Indigo-calib

Start at: 2017-12-11 21:30:41
End at: 2017-12-11 21:31:11
Local clock offset: -0.477 ms
Remote clock offset: -0.187 ms

Below is generated by plot.py at 2017-12-12 03:34:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 77.76 Mbit/s
95th percentile per-packet one-way delay: 36.950 ms
Loss rate: 1.65%
-- Flow 1:
Average throughput: 43.71 Mbit/s
95th percentile per-packet one-way delay: 35.714 ms
Loss rate: 1.40%
-- Flow 2:
Average throughput: 32.85 Mbit/s
95th percentile per-packet one-way delay: 38.468 ms
Loss rate: 1.82%
-- Flow 3:
Average throughput: 37.77 Mbit/s
95th percentile per-packet one-way delay: 39.223 ms
Loss rate: 2.24%

Run 5: Report of Indigo-calib — Data Link



Run 6: Statistics of Indigo-calib

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

End at: 2017-12-11 21:51:41

Local clock offset: 0.009 ms

Remote clock offset: -1.35 ms

Below is generated by plot.py at 2017-12-12 03:34:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 80.51 Mbit/s

95th percentile per-packet one-way delay: 38.379 ms

Loss rate: 1.04%

-- Flow 1:

Average throughput: 51.17 Mbit/s

95th percentile per-packet one-way delay: 36.678 ms

Loss rate: 0.87%

-- Flow 2:

Average throughput: 28.45 Mbit/s

95th percentile per-packet one-way delay: 39.681 ms

Loss rate: 1.22%

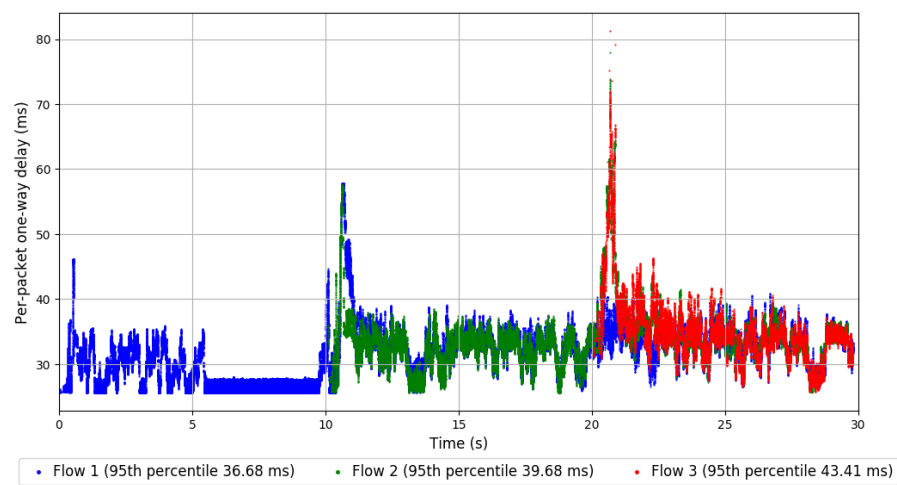
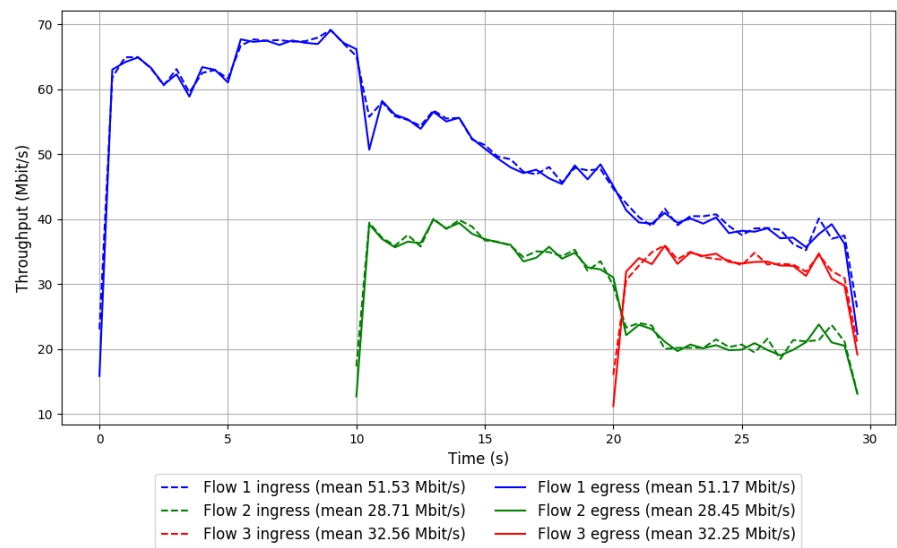
-- Flow 3:

Average throughput: 32.25 Mbit/s

95th percentile per-packet one-way delay: 43.407 ms

Loss rate: 1.56%

Run 6: Report of Indigo-calib — Data Link



Run 7: Statistics of Indigo-calib

Start at: 2017-12-11 22:11:56

End at: 2017-12-11 22:12:26

Local clock offset: 0.086 ms

Remote clock offset: 1.002 ms

Below is generated by plot.py at 2017-12-12 03:34:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 75.05 Mbit/s

95th percentile per-packet one-way delay: 36.869 ms

Loss rate: 2.54%

-- Flow 1:

Average throughput: 33.72 Mbit/s

95th percentile per-packet one-way delay: 36.012 ms

Loss rate: 2.37%

-- Flow 2:

Average throughput: 39.94 Mbit/s

95th percentile per-packet one-way delay: 37.953 ms

Loss rate: 2.46%

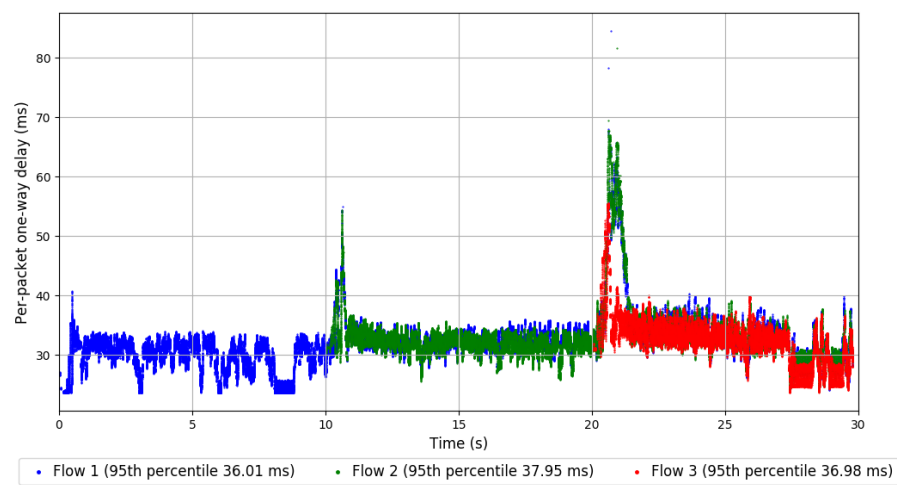
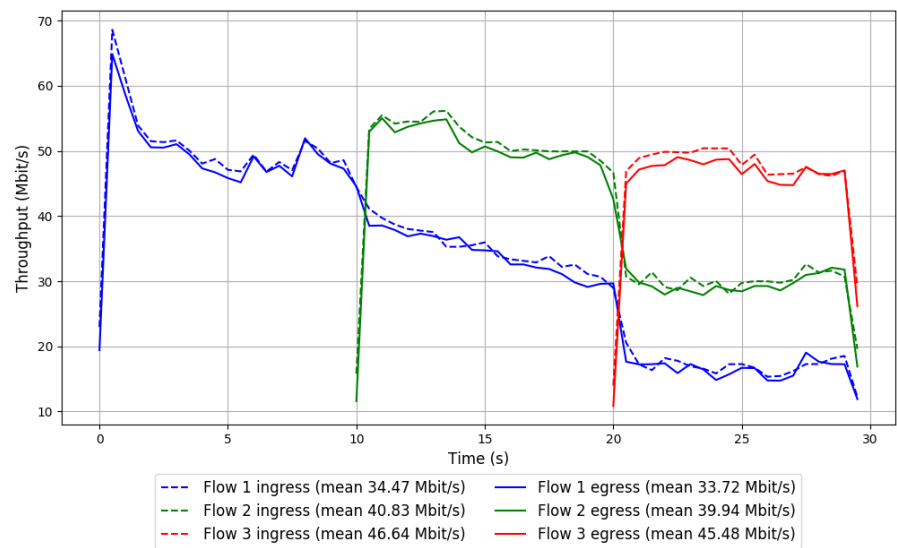
-- Flow 3:

Average throughput: 45.48 Mbit/s

95th percentile per-packet one-way delay: 36.981 ms

Loss rate: 3.09%

Run 7: Report of Indigo-calib — Data Link



Run 8: Statistics of Indigo-calib

Start at: 2017-12-11 22:33:12

End at: 2017-12-11 22:33:42

Local clock offset: -0.546 ms

Remote clock offset: -0.77 ms

Below is generated by plot.py at 2017-12-12 03:34:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 79.97 Mbit/s

95th percentile per-packet one-way delay: 39.568 ms

Loss rate: 1.34%

-- Flow 1:

Average throughput: 46.43 Mbit/s

95th percentile per-packet one-way delay: 38.437 ms

Loss rate: 1.28%

-- Flow 2:

Average throughput: 36.02 Mbit/s

95th percentile per-packet one-way delay: 42.560 ms

Loss rate: 1.23%

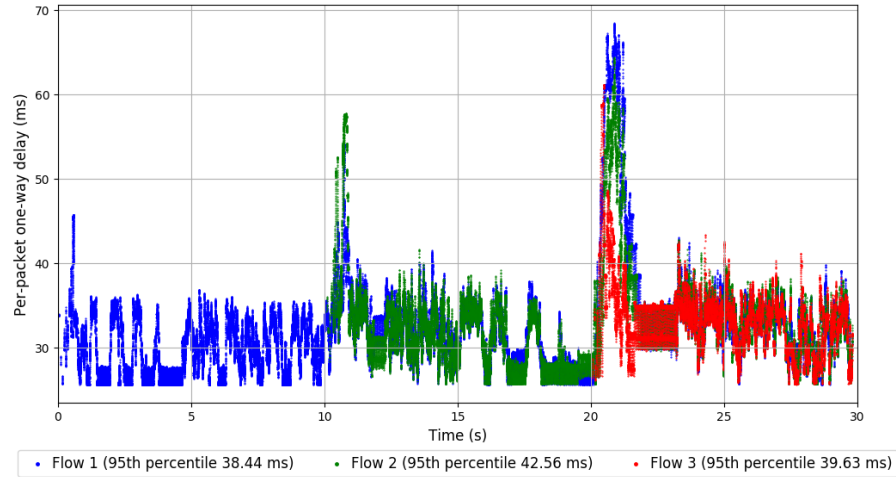
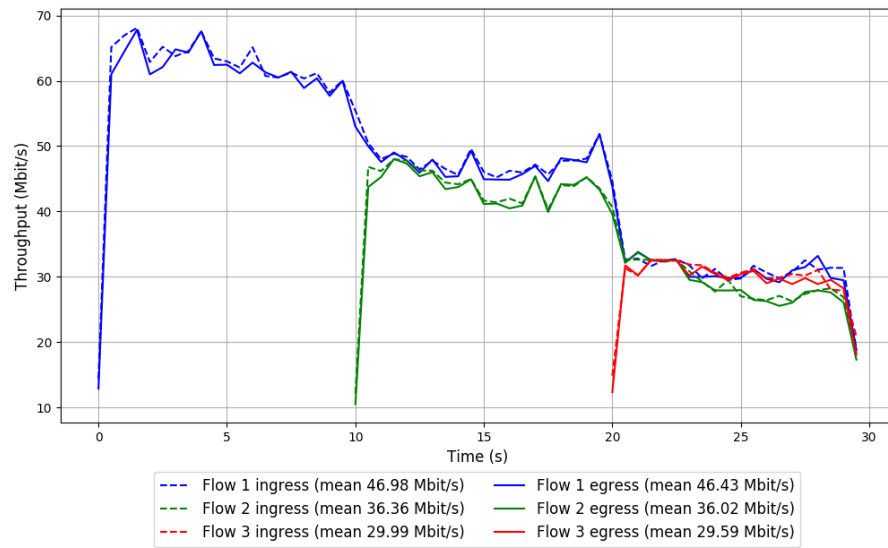
-- Flow 3:

Average throughput: 29.59 Mbit/s

95th percentile per-packet one-way delay: 39.629 ms

Loss rate: 1.89%

Run 8: Report of Indigo-calib — Data Link

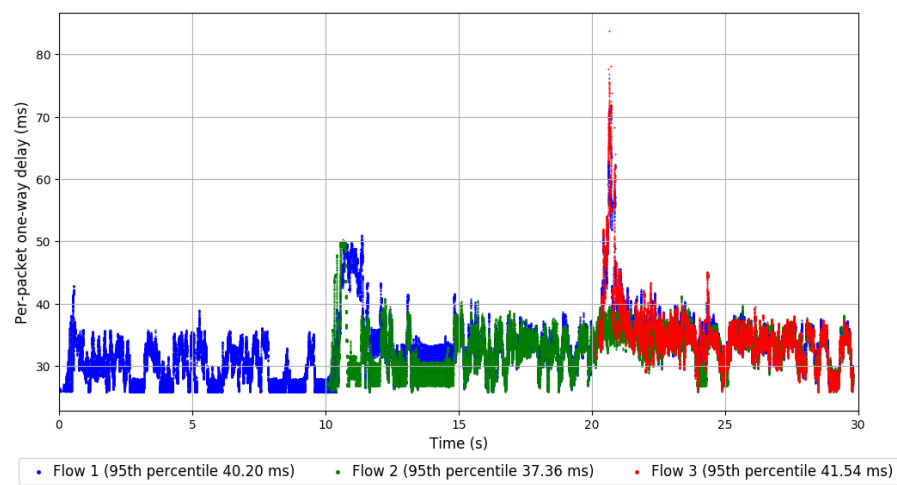
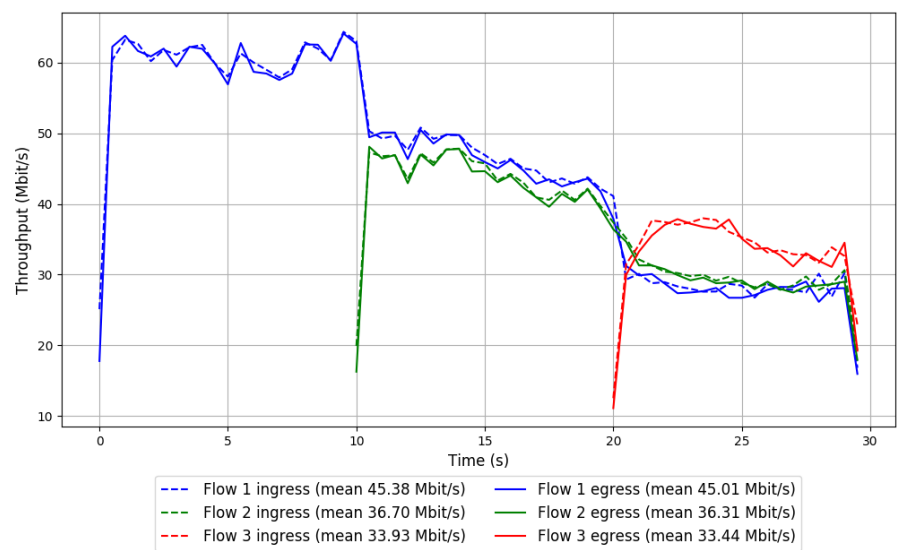


Run 9: Statistics of Indigo-calib

Start at: 2017-12-11 22:54:28
End at: 2017-12-11 22:54:58
Local clock offset: -0.63 ms
Remote clock offset: -0.297 ms

Below is generated by plot.py at 2017-12-12 03:34:14
Datalink statistics
-- Total of 3 flows:
Average throughput: 79.98 Mbit/s
95th percentile per-packet one-way delay: 38.816 ms
Loss rate: 1.24%
-- Flow 1:
Average throughput: 45.01 Mbit/s
95th percentile per-packet one-way delay: 40.200 ms
Loss rate: 1.00%
-- Flow 2:
Average throughput: 36.31 Mbit/s
95th percentile per-packet one-way delay: 37.358 ms
Loss rate: 1.31%
-- Flow 3:
Average throughput: 33.44 Mbit/s
95th percentile per-packet one-way delay: 41.537 ms
Loss rate: 2.04%

Run 9: Report of Indigo-calib — Data Link



Run 10: Statistics of Indigo-calib

Start at: 2017-12-11 23:14:42

End at: 2017-12-11 23:15:12

Local clock offset: -0.558 ms

Remote clock offset: 0.062 ms

Below is generated by plot.py at 2017-12-12 03:34:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 80.15 Mbit/s

95th percentile per-packet one-way delay: 38.354 ms

Loss rate: 1.31%

-- Flow 1:

Average throughput: 46.12 Mbit/s

95th percentile per-packet one-way delay: 37.602 ms

Loss rate: 1.12%

-- Flow 2:

Average throughput: 34.19 Mbit/s

95th percentile per-packet one-way delay: 37.745 ms

Loss rate: 1.40%

-- Flow 3:

Average throughput: 34.84 Mbit/s

95th percentile per-packet one-way delay: 43.285 ms

Loss rate: 1.92%

Run 10: Report of Indigo-calib — Data Link

