

Pantheon Report

Generated at 2017-09-22 03:36:44 (UTC).

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

Repeated the test of 14 congestion control schemes 10 times.

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

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

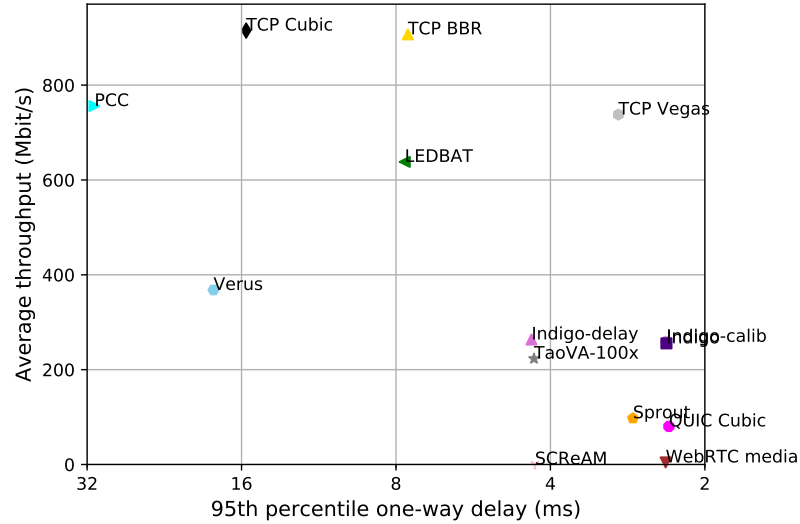
Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo_fast**).

NTP offsets were measured against **gps.ntp.br** and have been applied to correct the timestamps in logs.

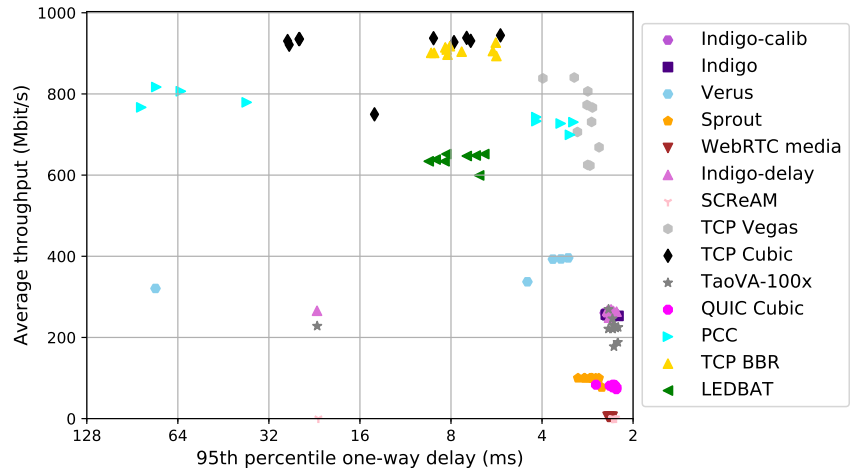
Git summary:

```
branch: indigos @ 46c7c812d4acb71eea4f5fb0b03b3657cea3062f
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/genericCC @ f7ca42f251bf49b432bb71de6d13fa903515c366
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 @ f1a14bffe749737437f61b1eaeeb30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
  M src/examples/cellsim.cc
  M src/examples/sproutbt2.cc
  M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/webrtc @ a488197ddd041ace68a42849b2540ad834825f42
```

test from Brazil Ethernet to AWS Brazil 1 Ethernet, 10 runs of 30s each per scheme
3 flows with 10s interval between flows (mean of all runs by scheme)



test from Brazil Ethernet to AWS Brazil 1 Ethernet, 10 runs of 30s each per scheme
3 flows with 10s interval between flows



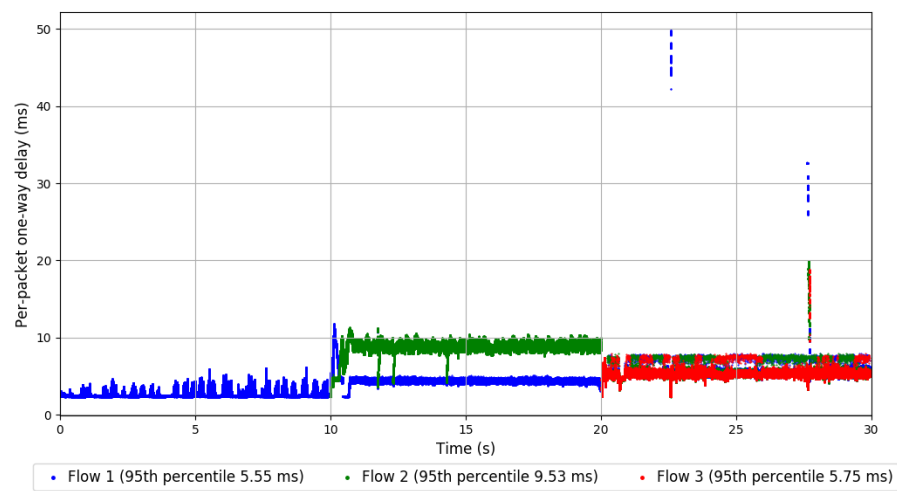
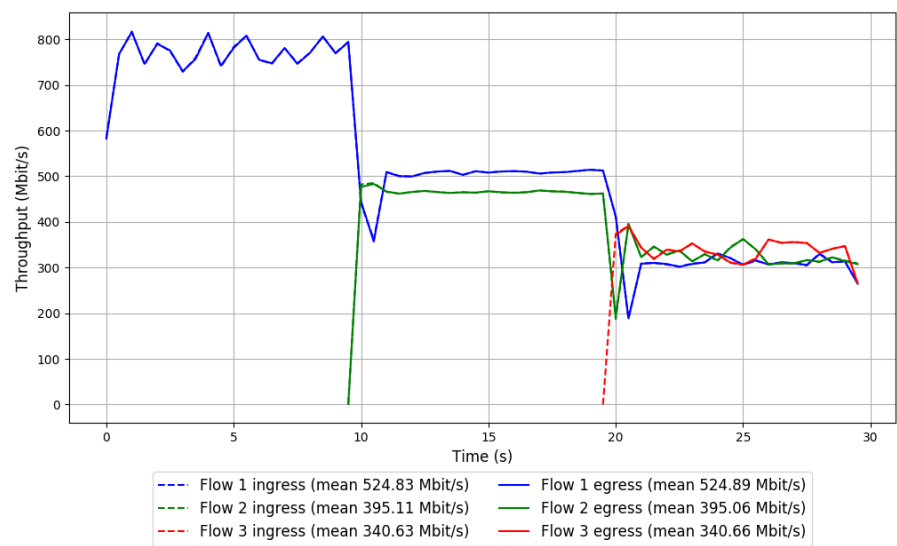
scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	10	530.10	408.69	315.97	7.16	7.39	6.40	0.02	0.03	0.07
TCP Cubic	10	535.38	411.23	318.52	15.16	6.55	5.69	0.03	0.07	0.19
LEDBAT	8	389.01	273.04	207.39	7.92	7.02	5.94	0.01	0.03	0.08
PCC	9	613.07	153.11	124.66	36.60	3.44	3.06	0.97	0.04	0.09
QUIC Cubic	10	1.03	81.48	78.85	2.47	2.34	2.36	0.00	0.02	0.05
SCReAM	10	0.22	0.22	0.22	4.29	4.29	4.29	0.00	0.16	0.00
WebRTC media	9	2.33	1.44	0.57	2.38	2.39	2.40	0.03	0.00	0.04
Sprout	10	50.09	46.62	49.85	2.70	2.76	2.86	0.03	0.01	0.04
TaoVA-100x	10	134.74	99.14	87.32	4.30	4.31	4.32	0.01	0.02	0.06
TCP Vegas	10	395.46	368.37	292.61	2.91	3.04	2.89	0.01	0.02	0.04
Verus	5	218.72	158.81	132.49	3.73	33.13	4.00	0.02	1.57	0.14
Indigo	10	143.28	126.68	86.24	2.37	2.39	2.41	0.01	0.02	0.04
Indigo-calib	10	143.67	125.89	96.48	2.35	2.41	2.43	0.01	0.03	0.06
Indigo-delay	10	145.12	125.80	106.08	4.33	4.37	4.44	0.02	0.02	0.03

Run 1: Statistics of TCP BBR

Start at: 2017-09-21 19:24:17
End at: 2017-09-21 19:24:47
Local clock offset: -0.006 ms
Remote clock offset: -0.039 ms

Below is generated by plot.py at 2017-09-22 02:12:44
Datalink statistics
-- Total of 3 flows:
Average throughput: 901.16 Mbit/s
95th percentile per-packet one-way delay: 9.092 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 524.89 Mbit/s
95th percentile per-packet one-way delay: 5.554 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 395.06 Mbit/s
95th percentile per-packet one-way delay: 9.534 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 340.66 Mbit/s
95th percentile per-packet one-way delay: 5.755 ms
Loss rate: 0.07%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2017-09-21 19:43:16

End at: 2017-09-21 19:43:46

Local clock offset: -0.053 ms

Remote clock offset: 0.078 ms

Below is generated by plot.py at 2017-09-22 02:13:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 917.64 Mbit/s

95th percentile per-packet one-way delay: 8.067 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 538.32 Mbit/s

95th percentile per-packet one-way delay: 8.304 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 410.40 Mbit/s

95th percentile per-packet one-way delay: 5.665 ms

Loss rate: 0.03%

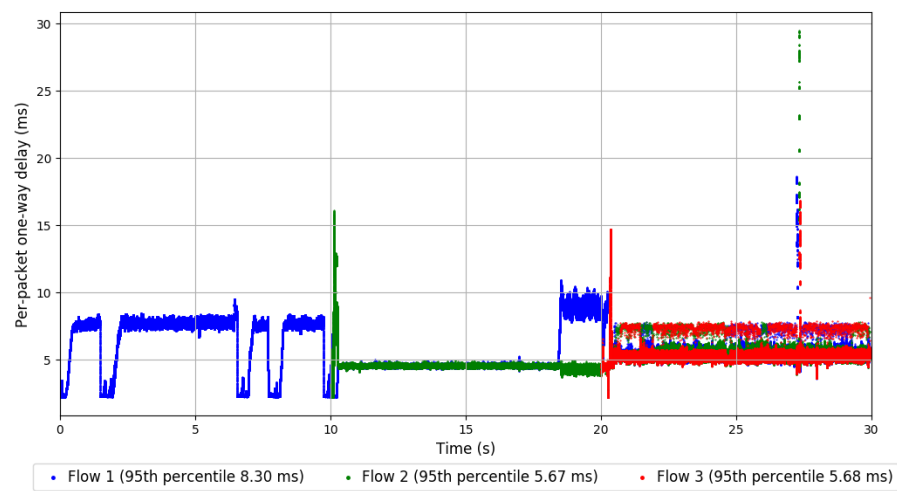
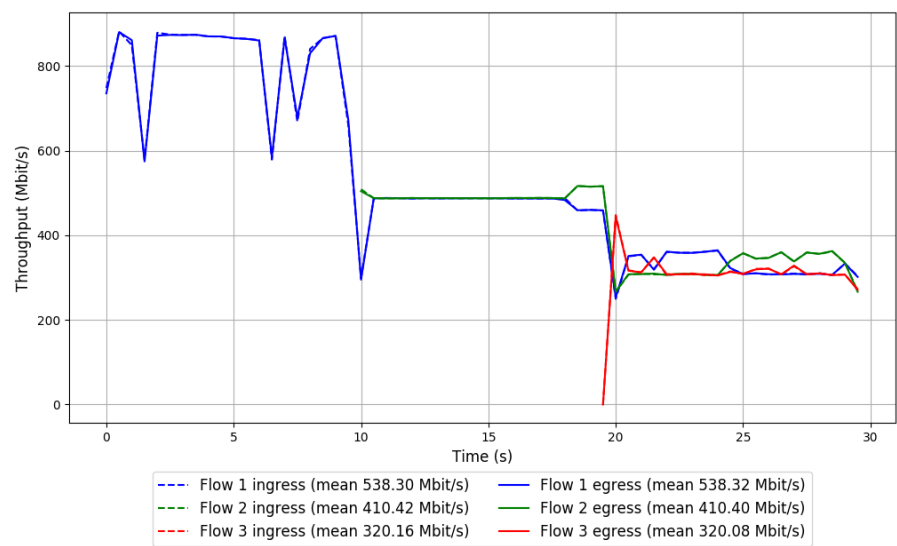
-- Flow 3:

Average throughput: 320.08 Mbit/s

95th percentile per-packet one-way delay: 5.677 ms

Loss rate: 0.07%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2017-09-21 20:01:57

End at: 2017-09-21 20:02:27

Local clock offset: 0.077 ms

Remote clock offset: 0.29 ms

Below is generated by plot.py at 2017-09-22 02:13:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 909.52 Mbit/s

95th percentile per-packet one-way delay: 8.266 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 527.30 Mbit/s

95th percentile per-packet one-way delay: 8.278 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 415.82 Mbit/s

95th percentile per-packet one-way delay: 8.701 ms

Loss rate: 0.03%

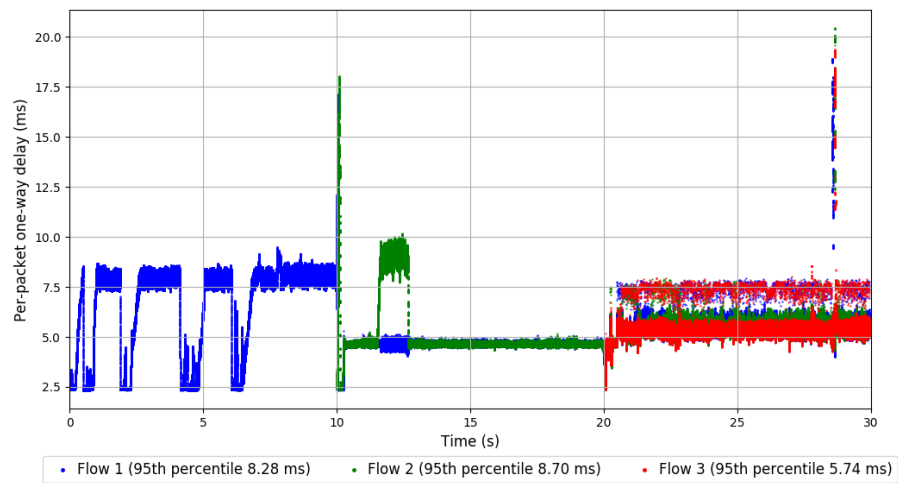
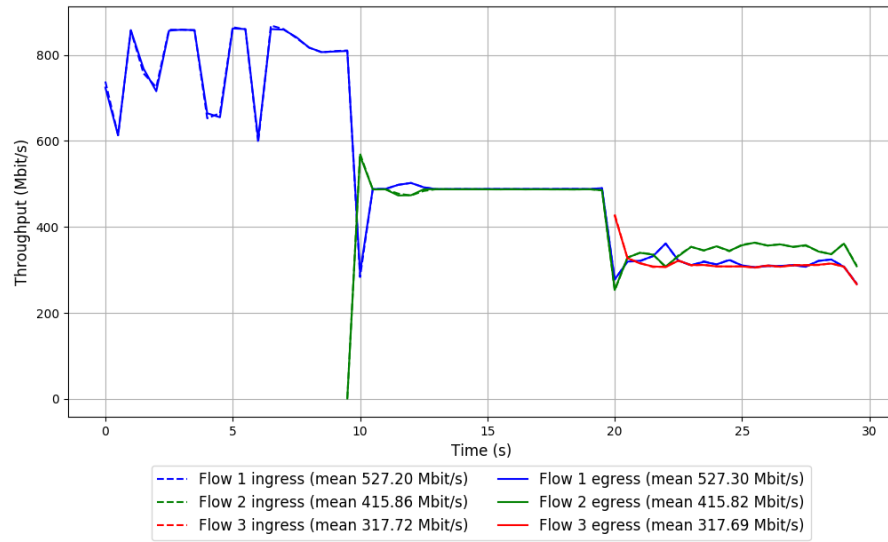
-- Flow 3:

Average throughput: 317.69 Mbit/s

95th percentile per-packet one-way delay: 5.737 ms

Loss rate: 0.07%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2017-09-21 20:20:42

End at: 2017-09-21 20:21:12

Local clock offset: 0.04 ms

Remote clock offset: 0.499 ms

Below is generated by plot.py at 2017-09-22 02:13:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 904.20 Mbit/s

95th percentile per-packet one-way delay: 7.376 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 520.74 Mbit/s

95th percentile per-packet one-way delay: 7.673 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 415.15 Mbit/s

95th percentile per-packet one-way delay: 5.735 ms

Loss rate: 0.03%

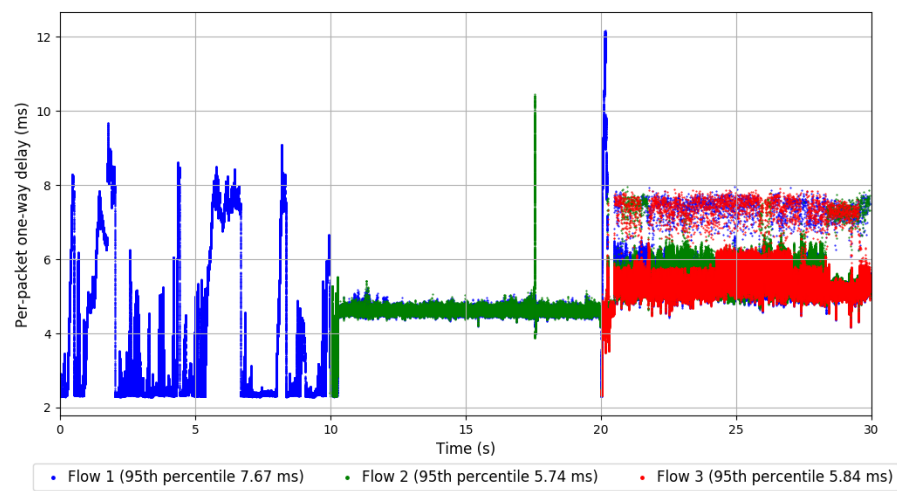
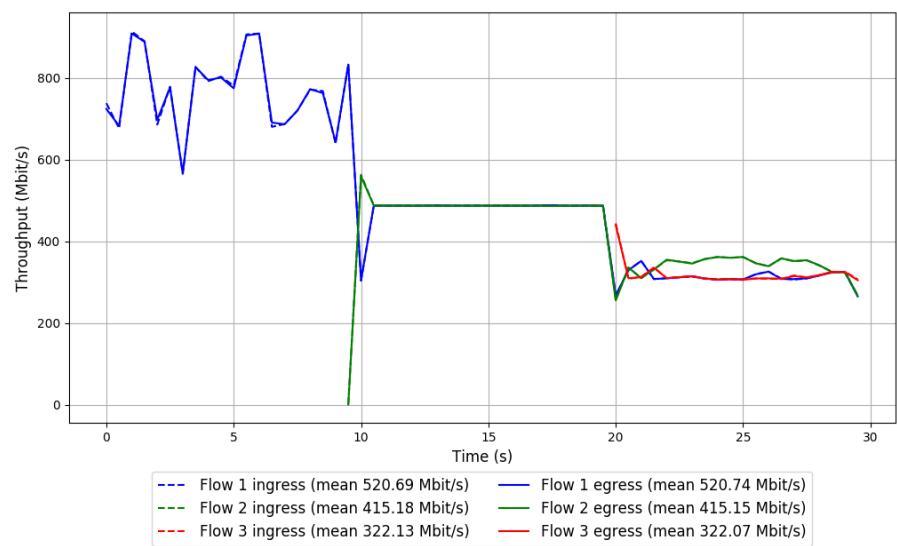
-- Flow 3:

Average throughput: 322.07 Mbit/s

95th percentile per-packet one-way delay: 5.840 ms

Loss rate: 0.09%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2017-09-21 20:39:30

End at: 2017-09-21 20:40:00

Local clock offset: 0.063 ms

Remote clock offset: 0.693 ms

Below is generated by plot.py at 2017-09-22 02:13:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 905.69 Mbit/s

95th percentile per-packet one-way delay: 5.813 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 534.92 Mbit/s

95th percentile per-packet one-way delay: 5.582 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 415.15 Mbit/s

95th percentile per-packet one-way delay: 5.742 ms

Loss rate: 0.04%

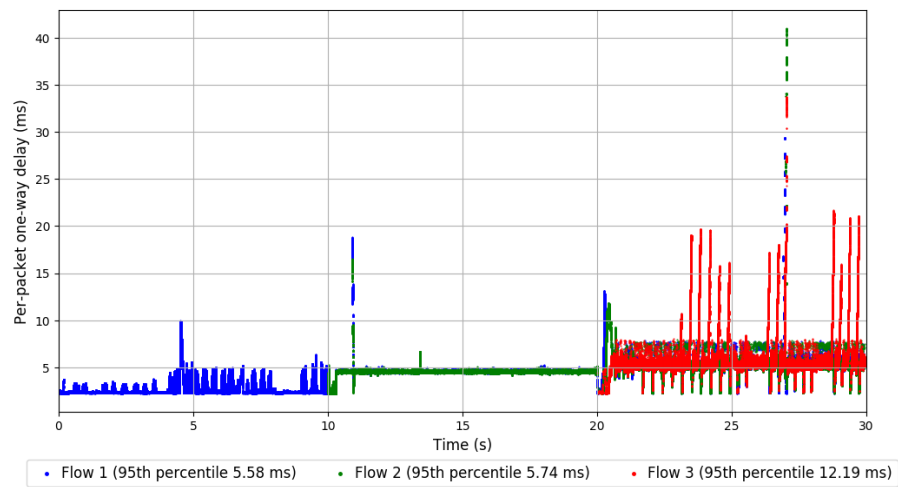
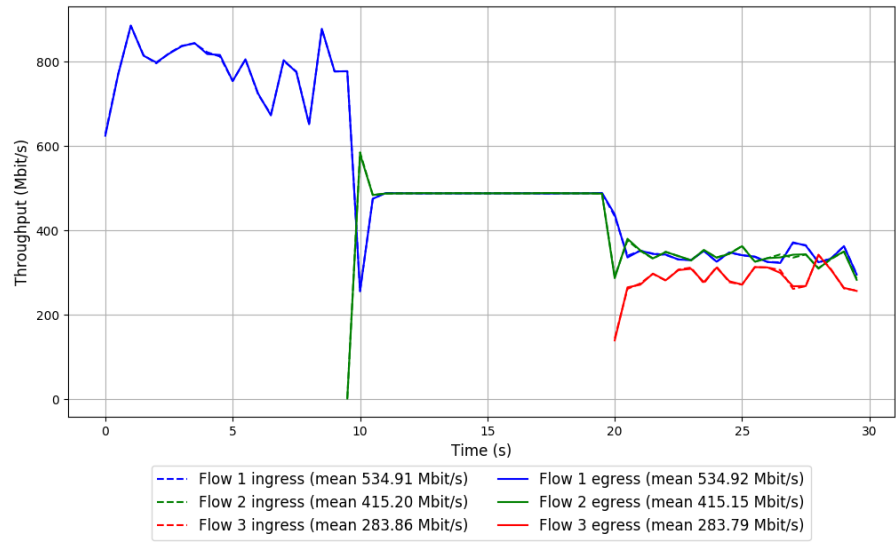
-- Flow 3:

Average throughput: 283.79 Mbit/s

95th percentile per-packet one-way delay: 12.193 ms

Loss rate: 0.09%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2017-09-21 20:58:17

End at: 2017-09-21 20:58:47

Local clock offset: 0.037 ms

Remote clock offset: 0.816 ms

Below is generated by plot.py at 2017-09-22 02:13:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 896.78 Mbit/s

95th percentile per-packet one-way delay: 8.214 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 519.70 Mbit/s

95th percentile per-packet one-way delay: 8.736 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 407.26 Mbit/s

95th percentile per-packet one-way delay: 5.644 ms

Loss rate: 0.03%

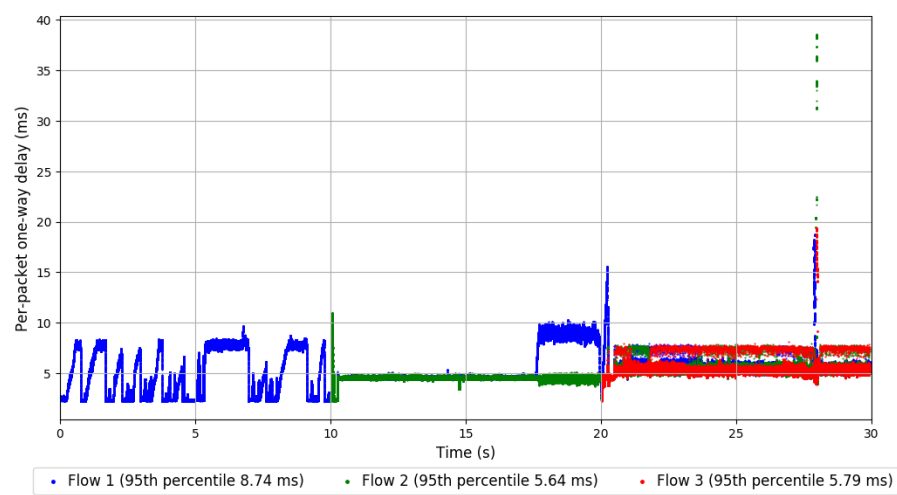
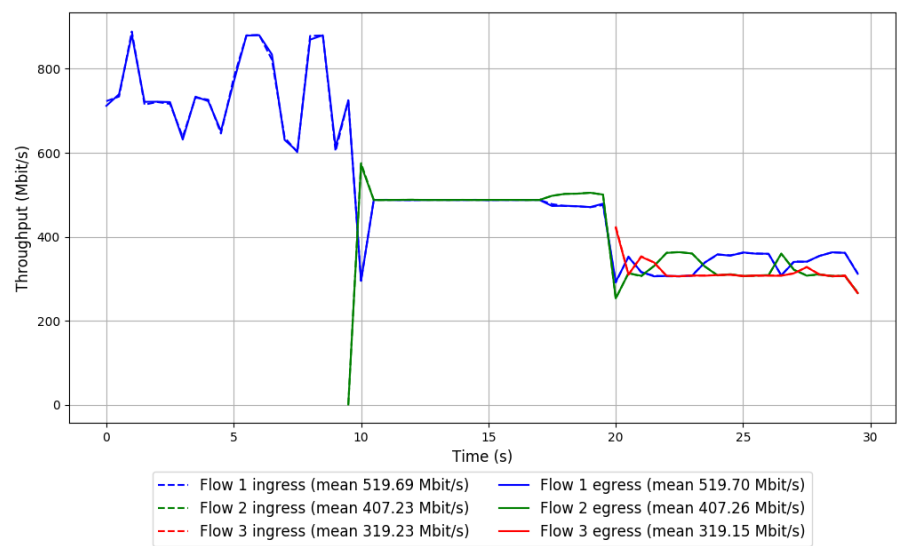
-- Flow 3:

Average throughput: 319.15 Mbit/s

95th percentile per-packet one-way delay: 5.788 ms

Loss rate: 0.07%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2017-09-21 21:17:04

End at: 2017-09-21 21:17:34

Local clock offset: -0.025 ms

Remote clock offset: 0.834 ms

Below is generated by plot.py at 2017-09-22 02:13:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 893.46 Mbit/s

95th percentile per-packet one-way delay: 5.662 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 520.61 Mbit/s

95th percentile per-packet one-way delay: 5.732 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 400.37 Mbit/s

95th percentile per-packet one-way delay: 5.608 ms

Loss rate: 0.03%

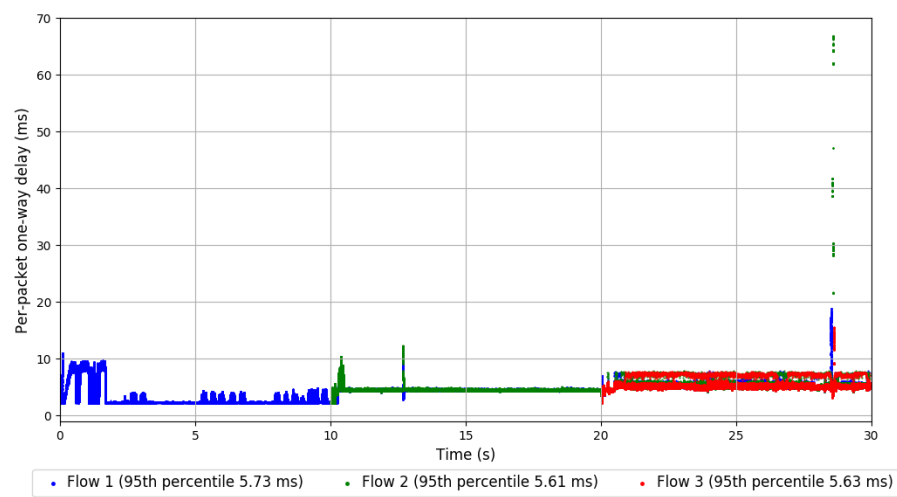
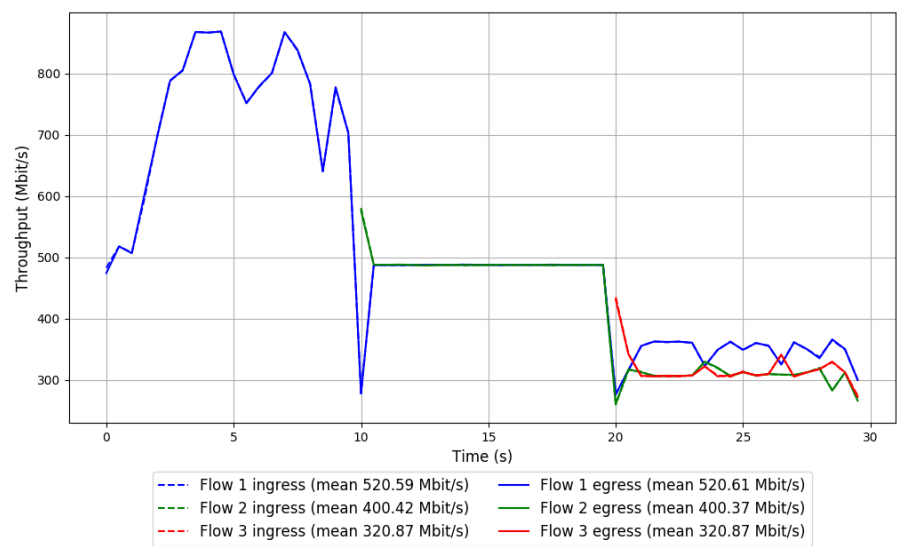
-- Flow 3:

Average throughput: 320.87 Mbit/s

95th percentile per-packet one-way delay: 5.629 ms

Loss rate: 0.07%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2017-09-21 21:35:58

End at: 2017-09-21 21:36:28

Local clock offset: 0.002 ms

Remote clock offset: 0.814 ms

Below is generated by plot.py at 2017-09-22 02:13:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 914.73 Mbit/s

95th percentile per-packet one-way delay: 8.353 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 533.81 Mbit/s

95th percentile per-packet one-way delay: 7.976 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 409.01 Mbit/s

95th percentile per-packet one-way delay: 9.099 ms

Loss rate: 0.03%

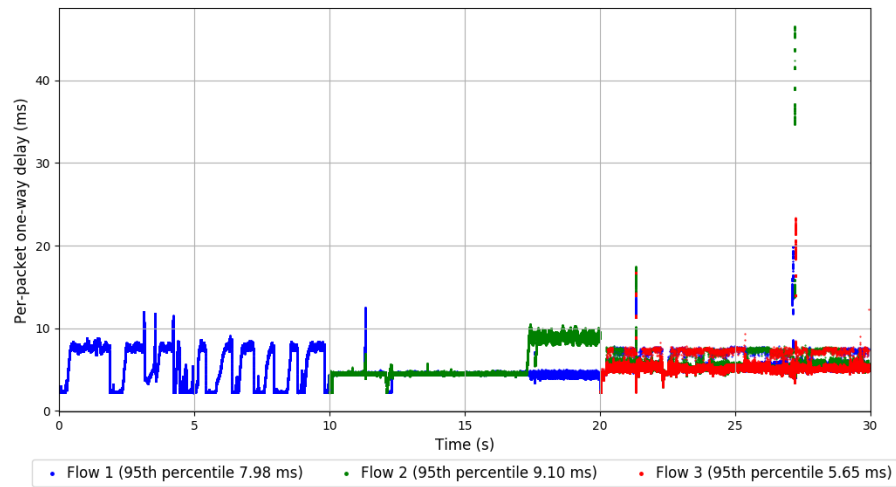
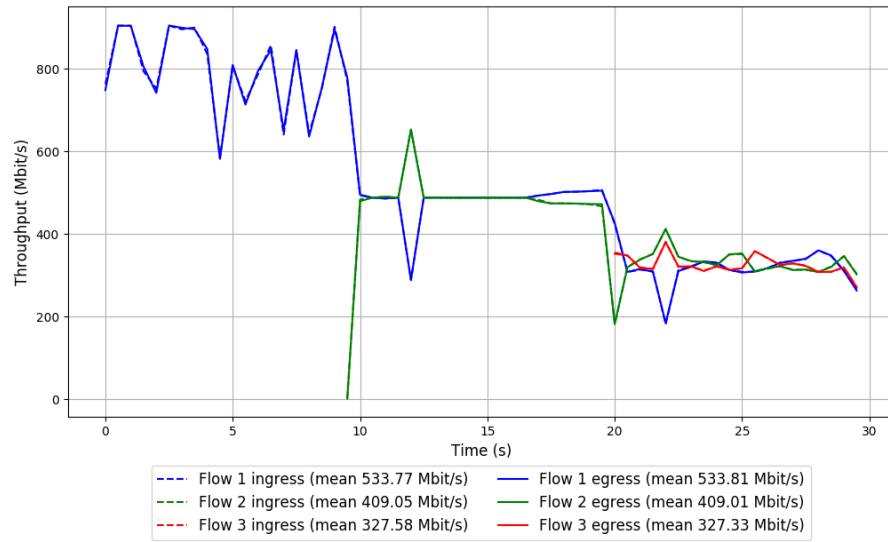
-- Flow 3:

Average throughput: 327.33 Mbit/s

95th percentile per-packet one-way delay: 5.651 ms

Loss rate: 0.07%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2017-09-21 21:55:09

End at: 2017-09-21 21:55:39

Local clock offset: 0.037 ms

Remote clock offset: 0.739 ms

Below is generated by plot.py at 2017-09-22 02:25:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 926.41 Mbit/s

95th percentile per-packet one-way delay: 5.688 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 542.26 Mbit/s

95th percentile per-packet one-way delay: 5.393 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 415.11 Mbit/s

95th percentile per-packet one-way delay: 8.312 ms

Loss rate: 0.03%

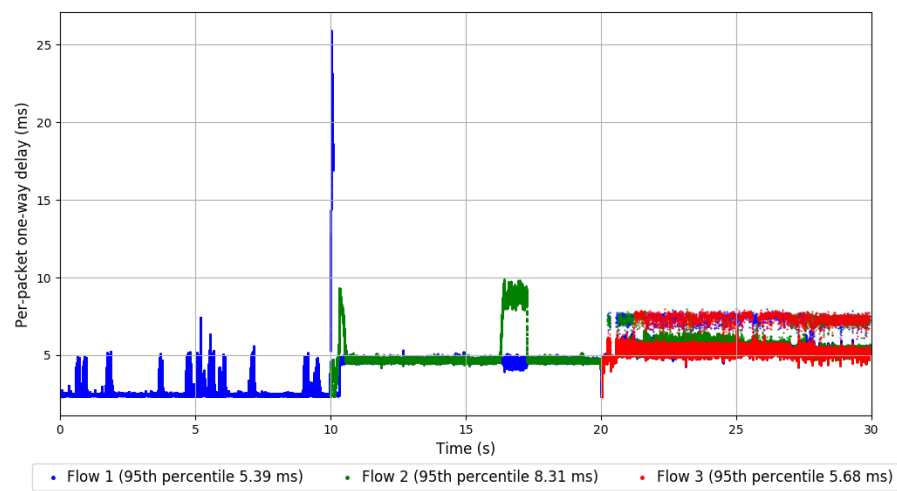
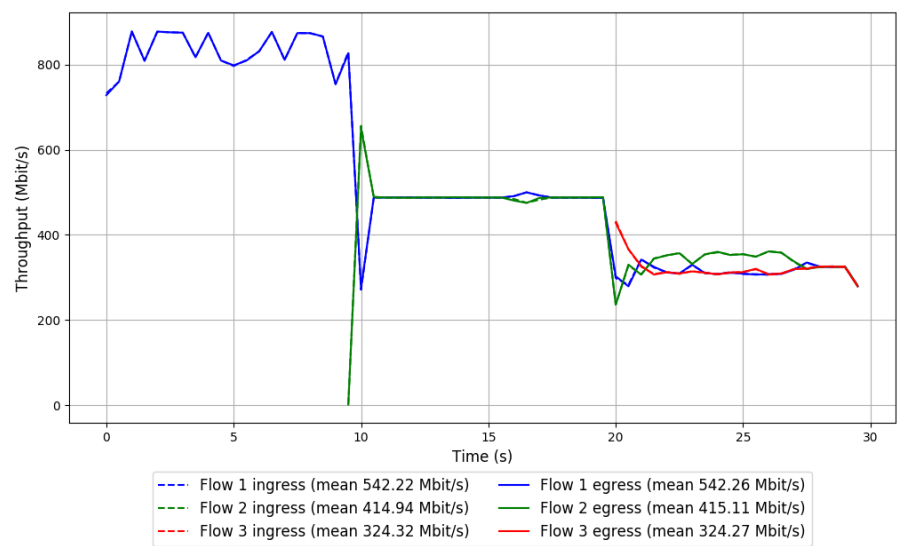
-- Flow 3:

Average throughput: 324.27 Mbit/s

95th percentile per-packet one-way delay: 5.678 ms

Loss rate: 0.08%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2017-09-21 22:14:02

End at: 2017-09-21 22:14:32

Local clock offset: 0.051 ms

Remote clock offset: 0.756 ms

Below is generated by plot.py at 2017-09-22 02:25:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 901.29 Mbit/s

95th percentile per-packet one-way delay: 9.300 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 538.43 Mbit/s

95th percentile per-packet one-way delay: 8.334 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 403.52 Mbit/s

95th percentile per-packet one-way delay: 9.889 ms

Loss rate: 0.04%

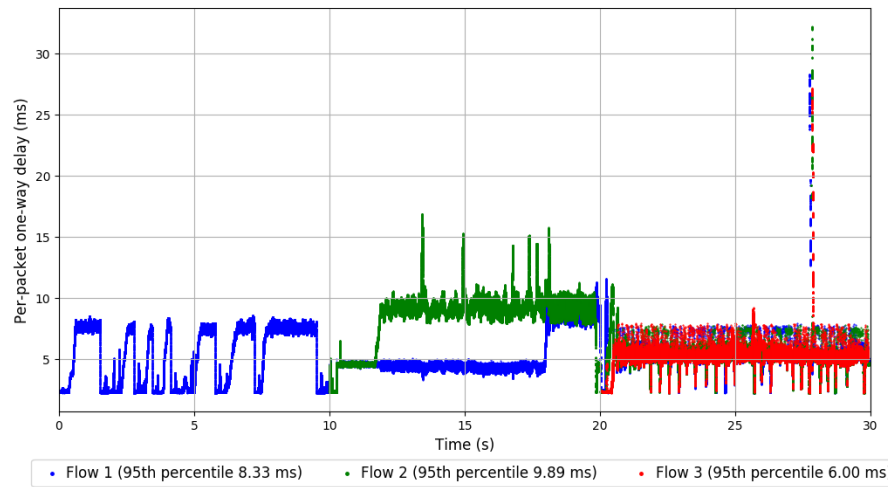
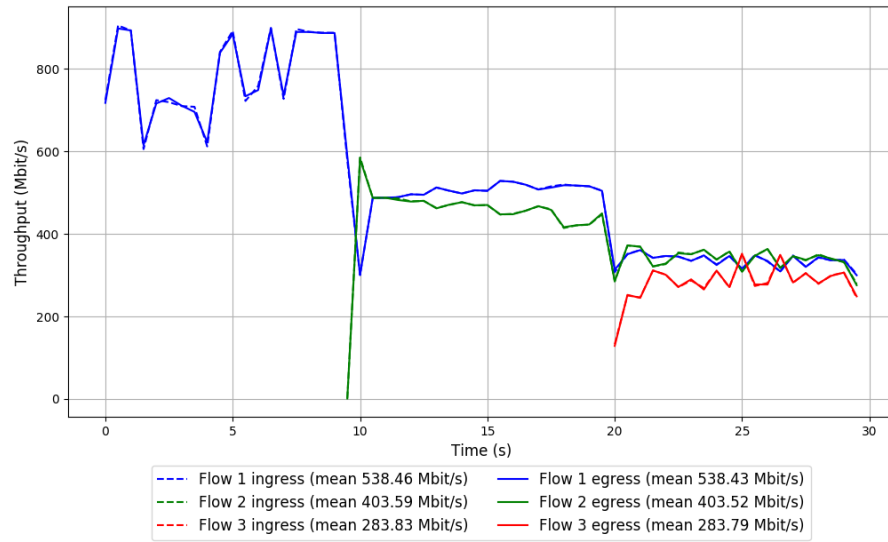
-- Flow 3:

Average throughput: 283.79 Mbit/s

95th percentile per-packet one-way delay: 6.004 ms

Loss rate: 0.00%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2017-09-21 19:37:34

End at: 2017-09-21 19:38:04

Local clock offset: 0.012 ms

Remote clock offset: 0.107 ms

Below is generated by plot.py at 2017-09-22 02:25:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 935.31 Mbit/s

95th percentile per-packet one-way delay: 25.346 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 565.07 Mbit/s

95th percentile per-packet one-way delay: 25.960 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 400.41 Mbit/s

95th percentile per-packet one-way delay: 5.606 ms

Loss rate: 0.09%

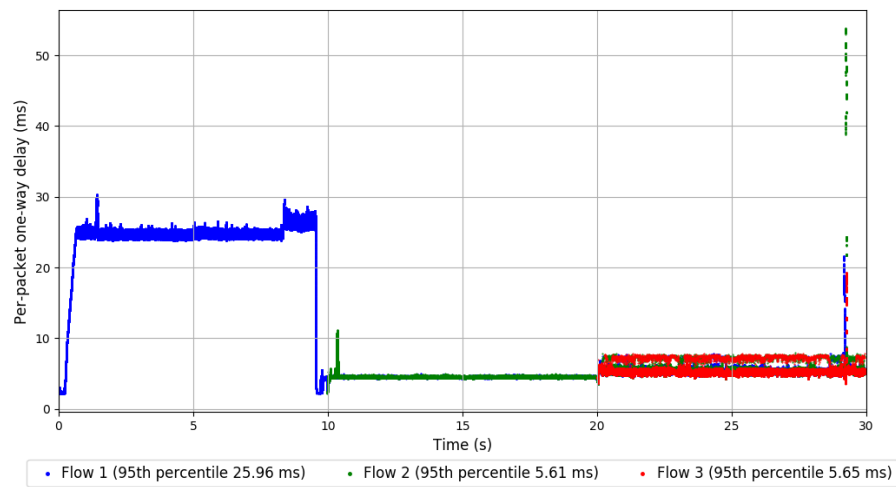
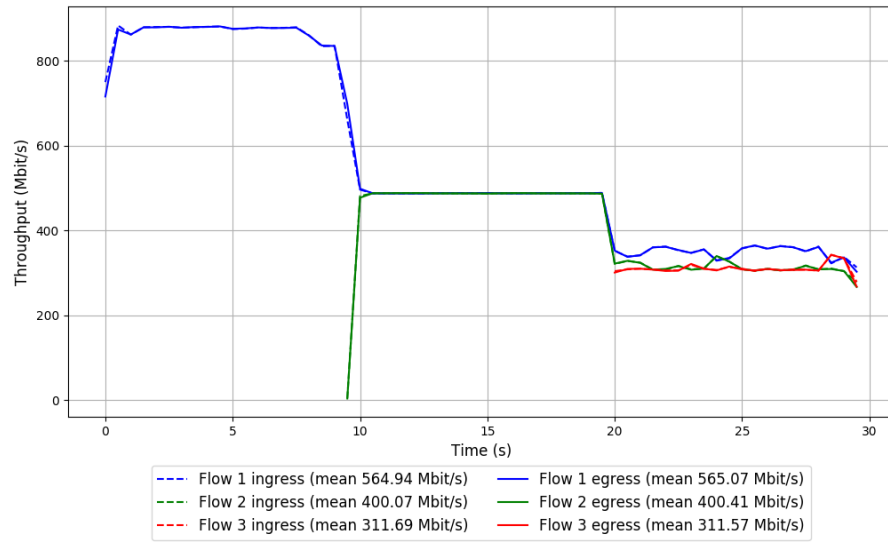
-- Flow 3:

Average throughput: 311.57 Mbit/s

95th percentile per-packet one-way delay: 5.652 ms

Loss rate: 0.24%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2017-09-21 19:56:20

End at: 2017-09-21 19:56:50

Local clock offset: 0.073 ms

Remote clock offset: 0.228 ms

Below is generated by plot.py at 2017-09-22 02:25:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 937.30 Mbit/s

95th percentile per-packet one-way delay: 9.137 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 591.68 Mbit/s

95th percentile per-packet one-way delay: 9.429 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 349.74 Mbit/s

95th percentile per-packet one-way delay: 5.915 ms

Loss rate: 0.05%

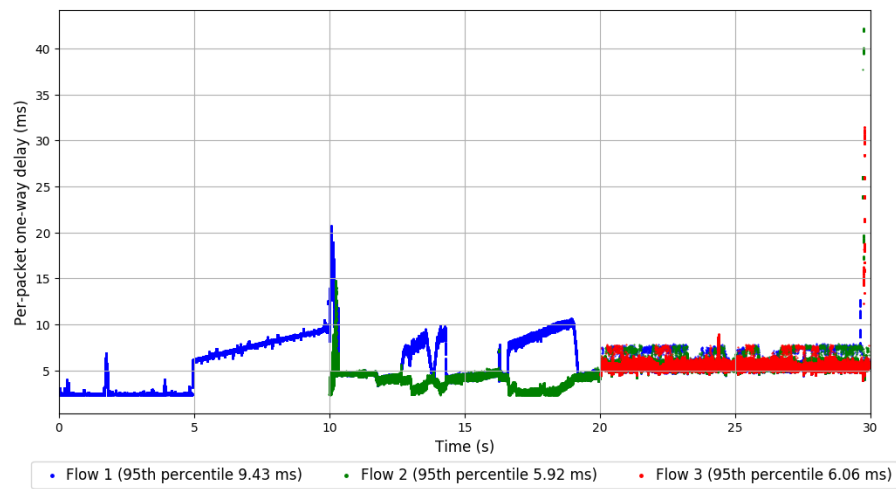
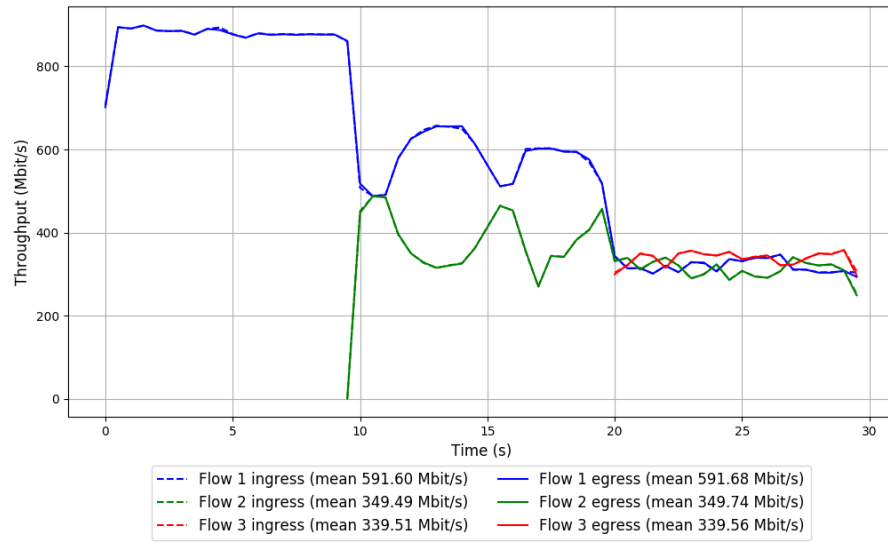
-- Flow 3:

Average throughput: 339.56 Mbit/s

95th percentile per-packet one-way delay: 6.060 ms

Loss rate: 0.22%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2017-09-21 20:15:06

End at: 2017-09-21 20:15:36

Local clock offset: -0.007 ms

Remote clock offset: 0.516 ms

Below is generated by plot.py at 2017-09-22 02:25:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 944.34 Mbit/s

95th percentile per-packet one-way delay: 5.489 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 566.33 Mbit/s

95th percentile per-packet one-way delay: 5.403 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 411.41 Mbit/s

95th percentile per-packet one-way delay: 5.537 ms

Loss rate: 0.09%

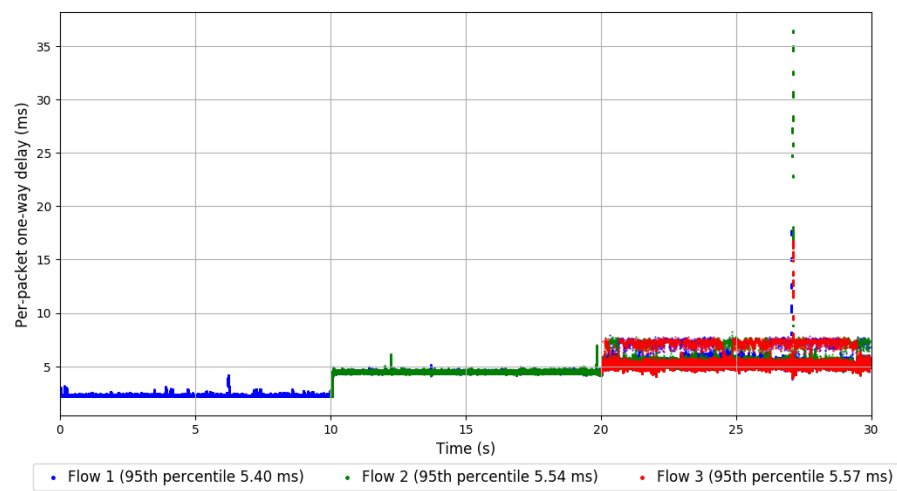
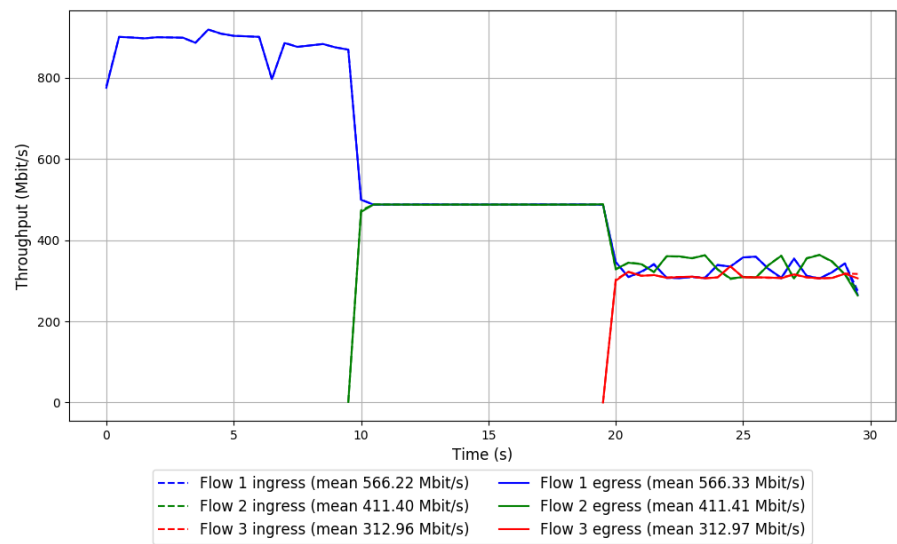
-- Flow 3:

Average throughput: 312.97 Mbit/s

95th percentile per-packet one-way delay: 5.565 ms

Loss rate: 0.24%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2017-09-21 20:34:06

End at: 2017-09-21 20:34:36

Local clock offset: -0.027 ms

Remote clock offset: 0.582 ms

Below is generated by plot.py at 2017-09-22 02:25:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 930.79 Mbit/s

95th percentile per-packet one-way delay: 6.883 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 549.55 Mbit/s

95th percentile per-packet one-way delay: 7.545 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 407.79 Mbit/s

95th percentile per-packet one-way delay: 5.707 ms

Loss rate: 0.08%

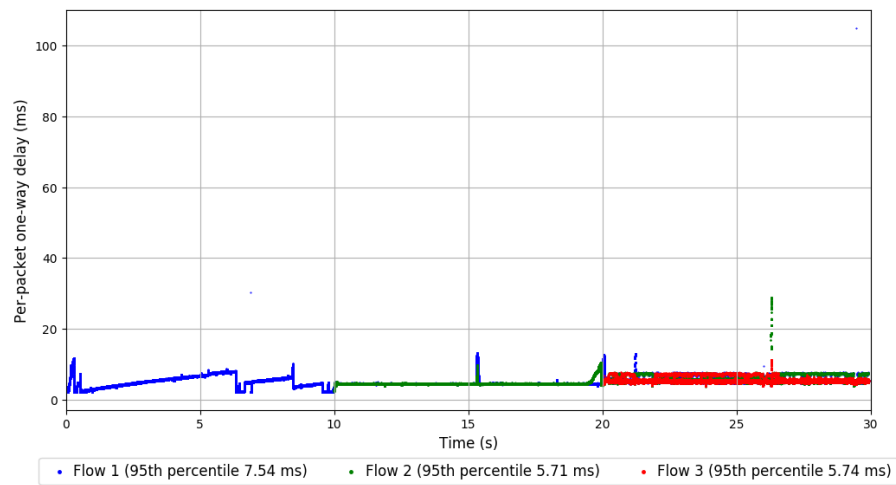
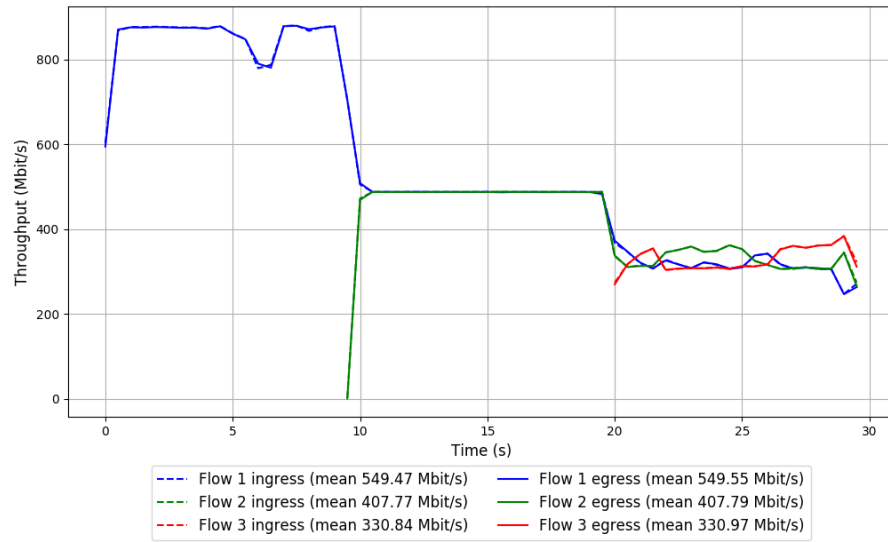
-- Flow 3:

Average throughput: 330.97 Mbit/s

95th percentile per-packet one-way delay: 5.744 ms

Loss rate: 0.23%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2017-09-21 20:52:42

End at: 2017-09-21 20:53:12

Local clock offset: -0.226 ms

Remote clock offset: 0.783 ms

Below is generated by plot.py at 2017-09-22 02:25:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 935.07 Mbit/s

95th percentile per-packet one-way delay: 25.451 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 557.45 Mbit/s

95th percentile per-packet one-way delay: 25.740 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 409.01 Mbit/s

95th percentile per-packet one-way delay: 5.400 ms

Loss rate: 0.10%

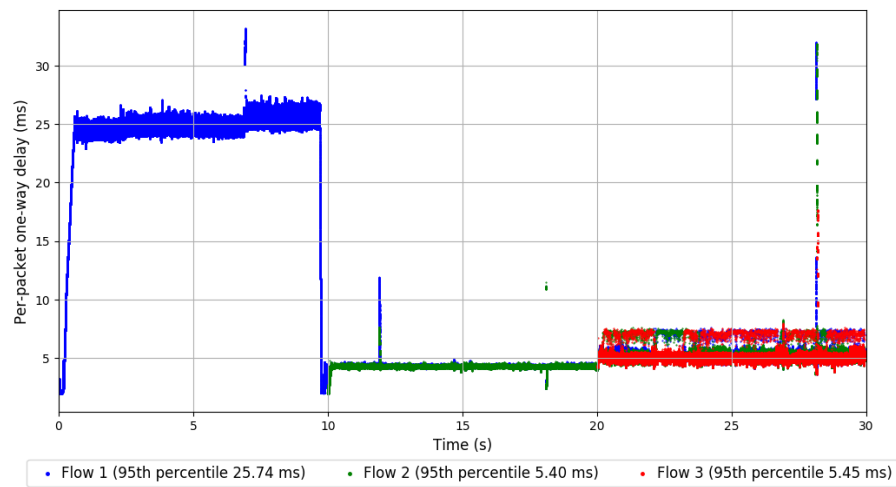
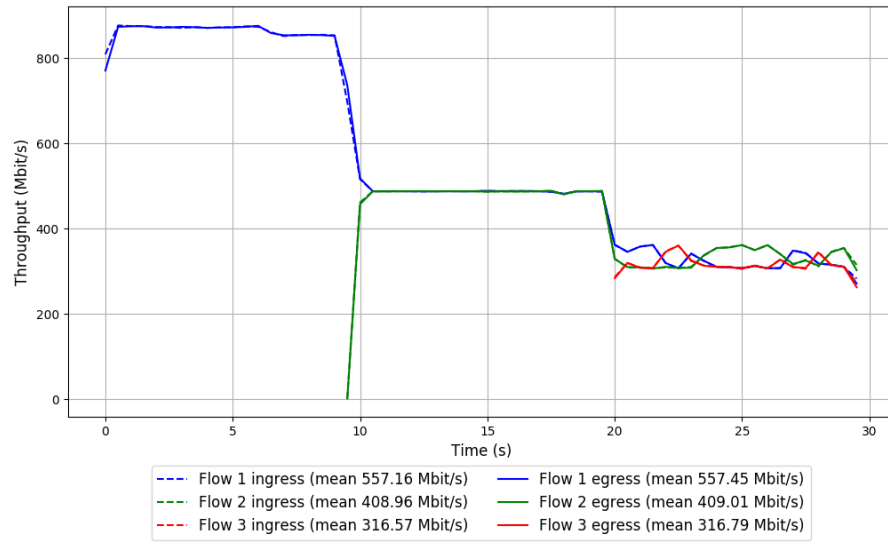
-- Flow 3:

Average throughput: 316.79 Mbit/s

95th percentile per-packet one-way delay: 5.446 ms

Loss rate: 0.23%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2017-09-21 21:11:26

End at: 2017-09-21 21:11:56

Local clock offset: -0.003 ms

Remote clock offset: 0.866 ms

Below is generated by plot.py at 2017-09-22 02:25:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 749.78 Mbit/s

95th percentile per-packet one-way delay: 14.322 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 305.79 Mbit/s

95th percentile per-packet one-way delay: 5.504 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 536.25 Mbit/s

95th percentile per-packet one-way delay: 14.887 ms

Loss rate: 0.02%

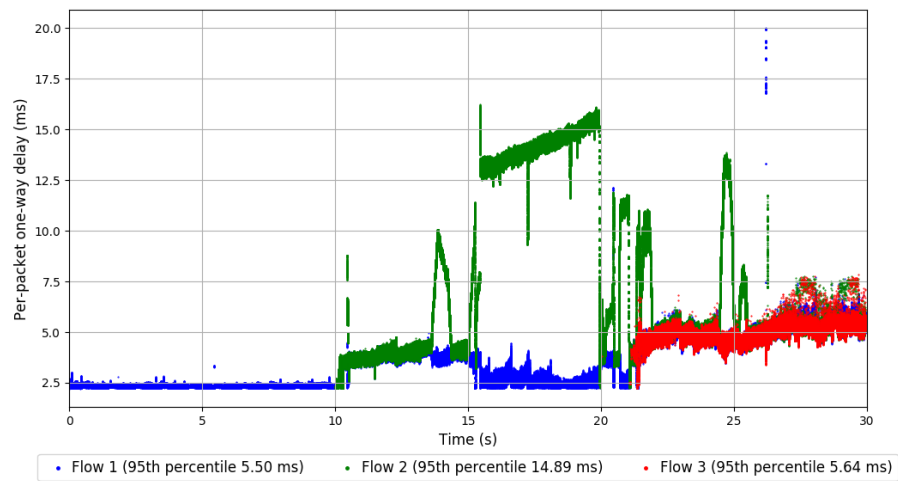
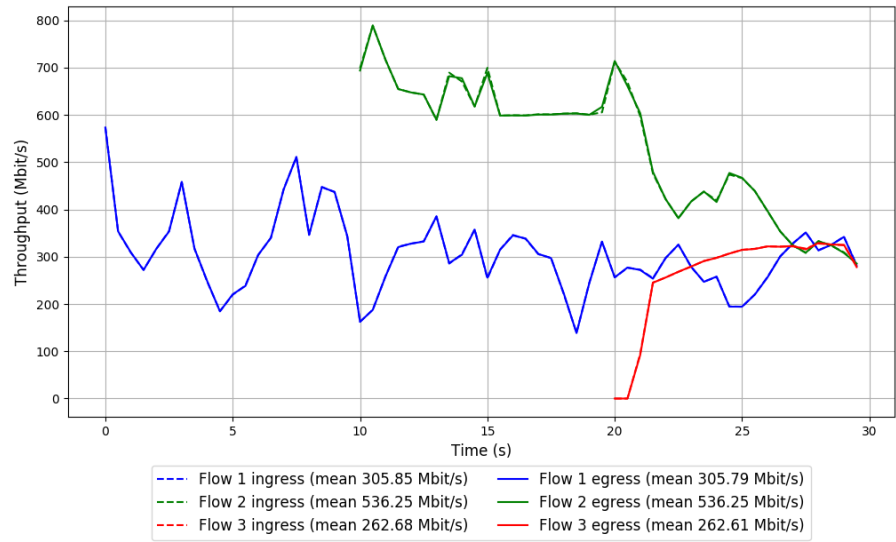
-- Flow 3:

Average throughput: 262.61 Mbit/s

95th percentile per-packet one-way delay: 5.639 ms

Loss rate: 0.09%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2017-09-21 21:30:23

End at: 2017-09-21 21:30:53

Local clock offset: 0.061 ms

Remote clock offset: 0.823 ms

Below is generated by plot.py at 2017-09-22 02:35:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 927.63 Mbit/s

95th percentile per-packet one-way delay: 7.818 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 564.99 Mbit/s

95th percentile per-packet one-way delay: 8.215 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 381.07 Mbit/s

95th percentile per-packet one-way delay: 5.699 ms

Loss rate: 0.03%

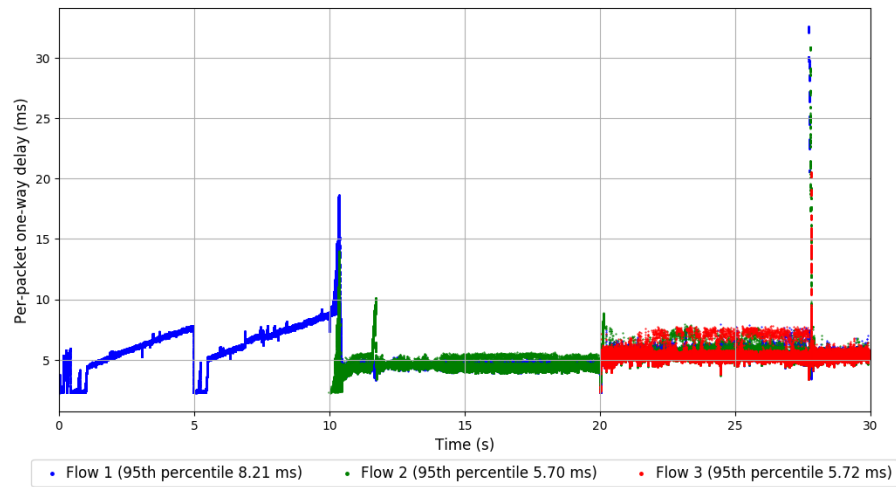
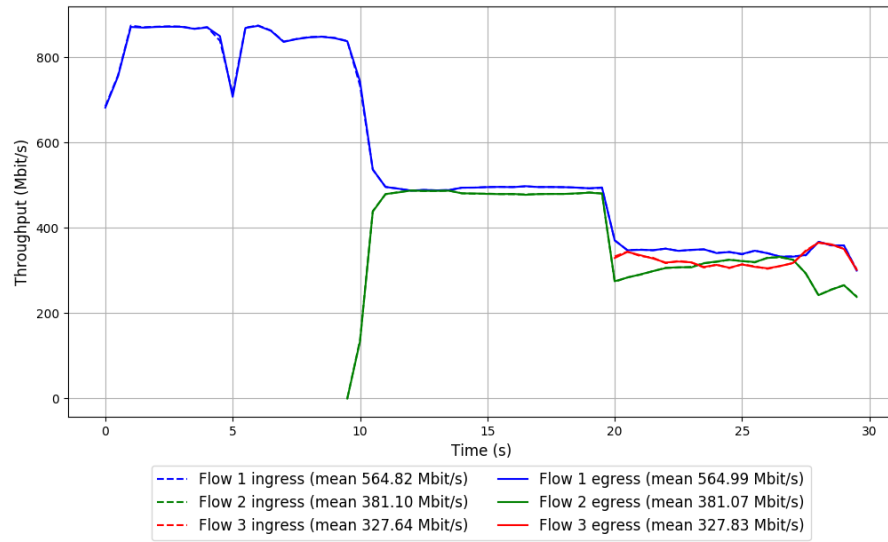
-- Flow 3:

Average throughput: 327.83 Mbit/s

95th percentile per-packet one-way delay: 5.719 ms

Loss rate: 0.08%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2017-09-21 21:49:33

End at: 2017-09-21 21:50:03

Local clock offset: -0.027 ms

Remote clock offset: 0.801 ms

Below is generated by plot.py at 2017-09-22 02:37:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 930.33 Mbit/s

95th percentile per-packet one-way delay: 27.751 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 550.11 Mbit/s

95th percentile per-packet one-way delay: 28.558 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 410.49 Mbit/s

95th percentile per-packet one-way delay: 5.490 ms

Loss rate: 0.09%

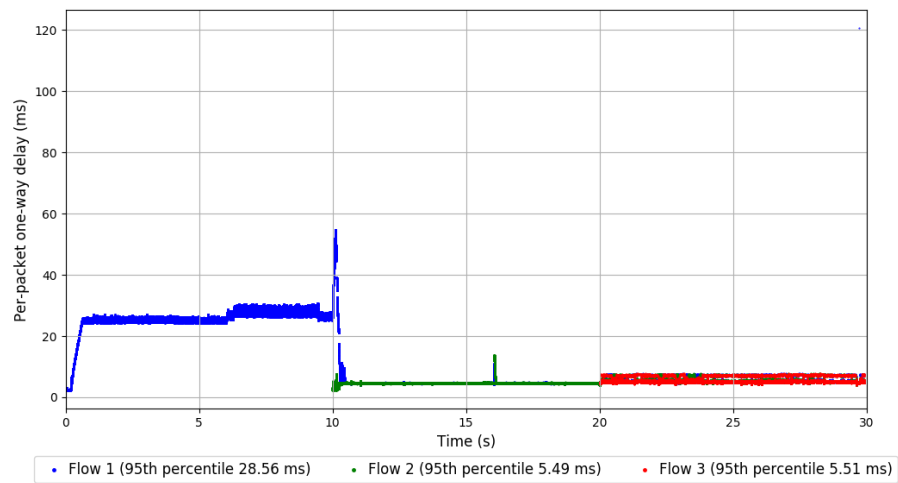
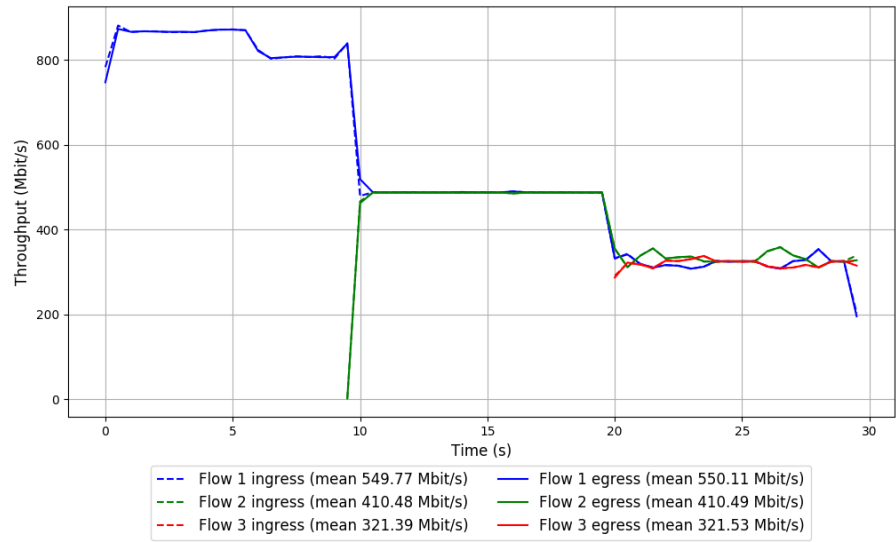
-- Flow 3:

Average throughput: 321.53 Mbit/s

95th percentile per-packet one-way delay: 5.512 ms

Loss rate: 0.23%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2017-09-21 22:08:27

End at: 2017-09-21 22:08:57

Local clock offset: -0.042 ms

Remote clock offset: 0.643 ms

Below is generated by plot.py at 2017-09-22 02:37:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 921.21 Mbit/s

95th percentile per-packet one-way delay: 27.412 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 546.90 Mbit/s

95th percentile per-packet one-way delay: 27.925 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 404.92 Mbit/s

95th percentile per-packet one-way delay: 5.684 ms

Loss rate: 0.03%

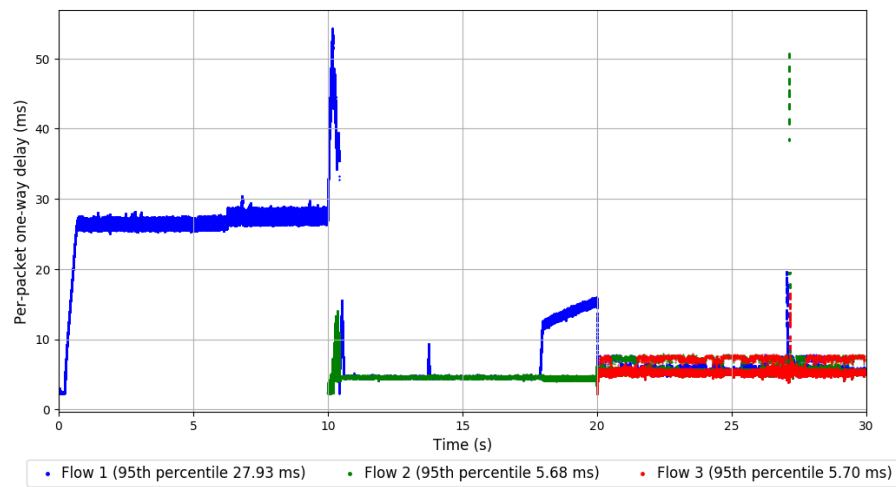
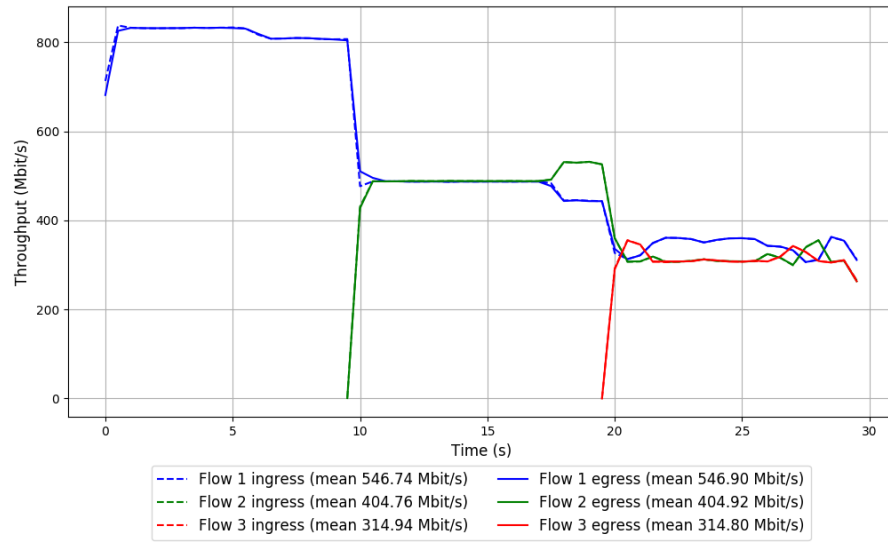
-- Flow 3:

Average throughput: 314.80 Mbit/s

95th percentile per-packet one-way delay: 5.702 ms

Loss rate: 0.09%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2017-09-21 22:27:19

End at: 2017-09-21 22:27:49

Local clock offset: -0.038 ms

Remote clock offset: 0.478 ms

Below is generated by plot.py at 2017-09-22 02:38:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 938.12 Mbit/s

95th percentile per-packet one-way delay: 7.100 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 555.95 Mbit/s

95th percentile per-packet one-way delay: 7.328 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 401.16 Mbit/s

95th percentile per-packet one-way delay: 5.592 ms

Loss rate: 0.10%

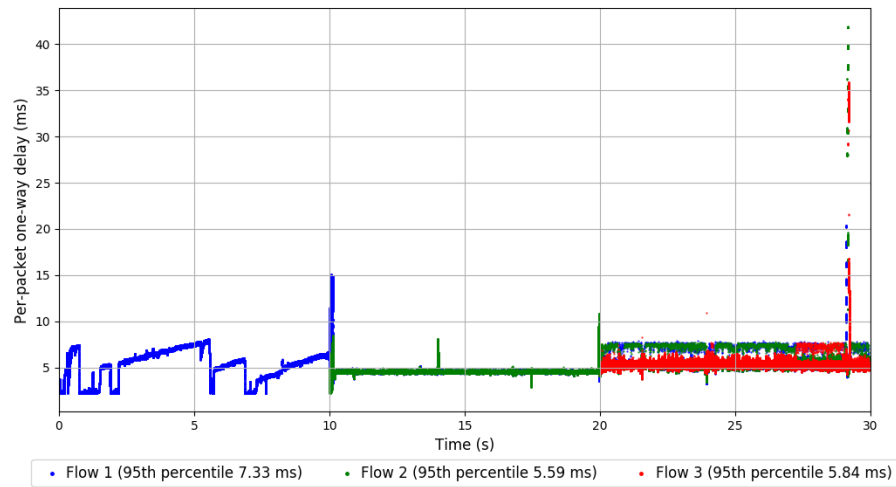
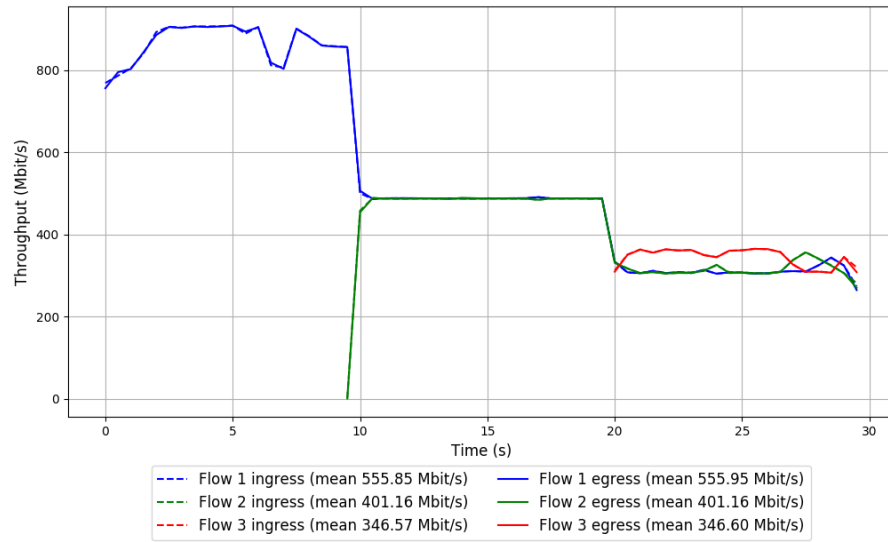
-- Flow 3:

Average throughput: 346.60 Mbit/s

95th percentile per-packet one-way delay: 5.840 ms

Loss rate: 0.23%

Run 10: Report of TCP Cubic — Data Link

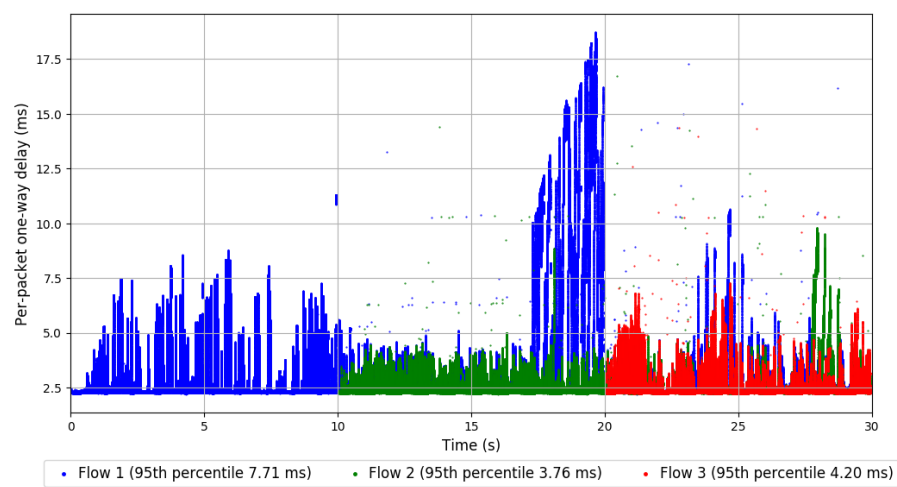
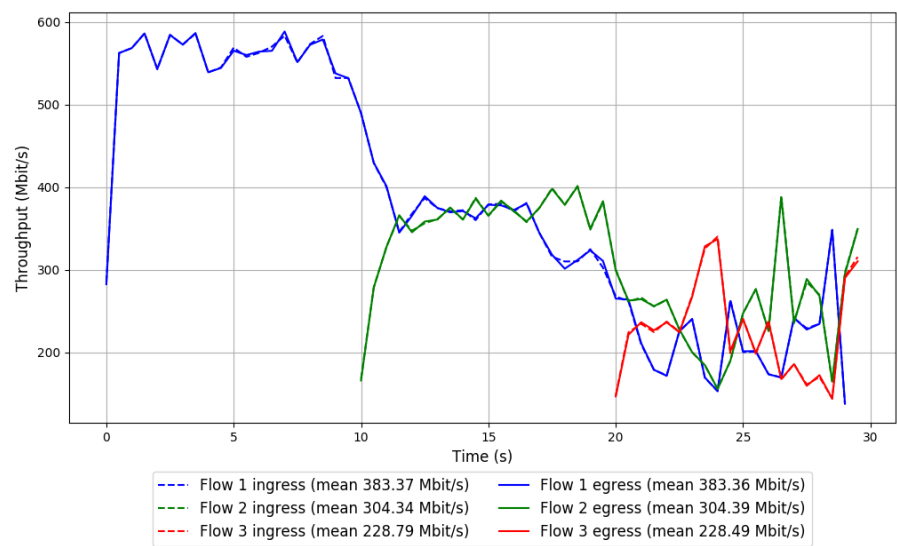


```
Run 1: Statistics of LEDBAT

Start at: 2017-09-21 19:22:40
End at: 2017-09-21 19:23:10
Local clock offset: -0.012 ms
Remote clock offset: 0.011 ms

# Below is generated by plot.py at 2017-09-22 02:38:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 651.90 Mbit/s
95th percentile per-packet one-way delay: 6.209 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 383.36 Mbit/s
95th percentile per-packet one-way delay: 7.710 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 304.39 Mbit/s
95th percentile per-packet one-way delay: 3.760 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 228.49 Mbit/s
95th percentile per-packet one-way delay: 4.200 ms
Loss rate: 0.17%
```


Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2017-09-21 19:41:42

End at: 2017-09-21 19:42:12

Local clock offset: -0.017 ms

Remote clock offset: 0.113 ms

Below is generated by plot.py at 2017-09-22 02:38:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 599.22 Mbit/s

95th percentile per-packet one-way delay: 6.456 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 438.77 Mbit/s

95th percentile per-packet one-way delay: 6.713 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 113.11 Mbit/s

95th percentile per-packet one-way delay: 3.194 ms

Loss rate: 0.06%

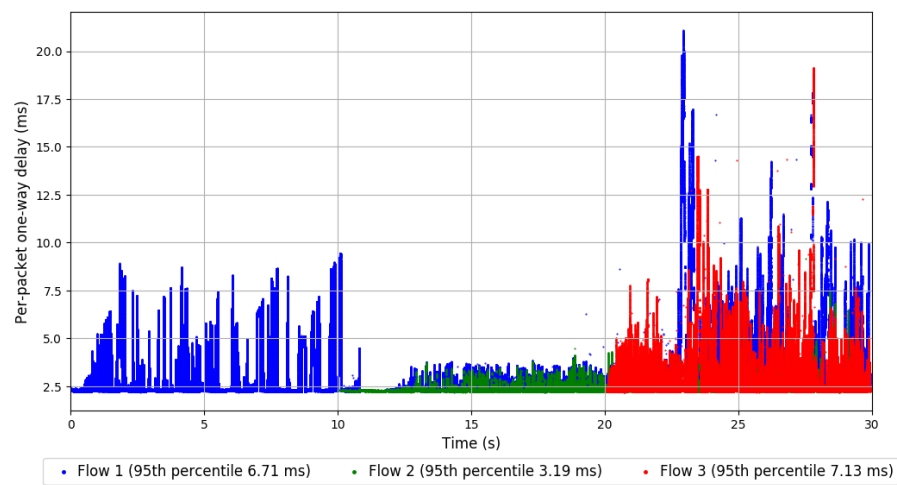
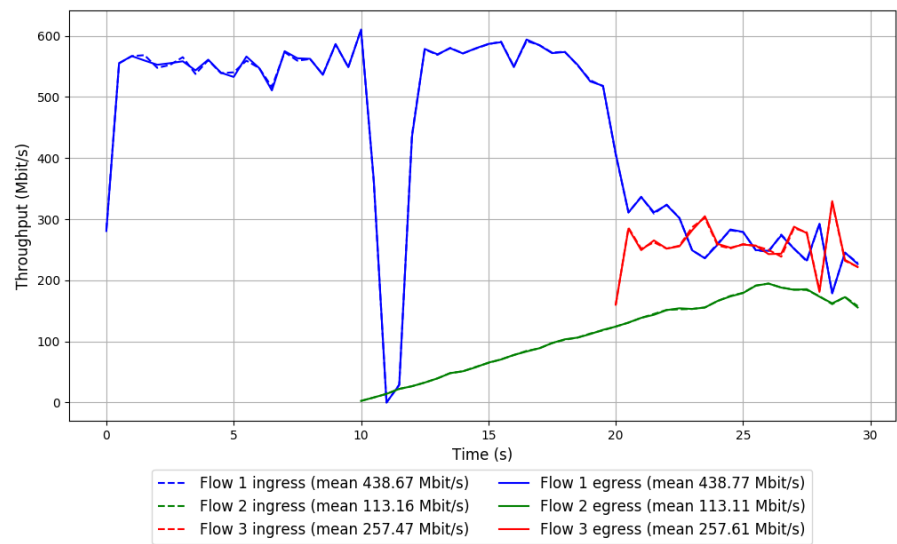
-- Flow 3:

Average throughput: 257.61 Mbit/s

95th percentile per-packet one-way delay: 7.133 ms

Loss rate: 0.01%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

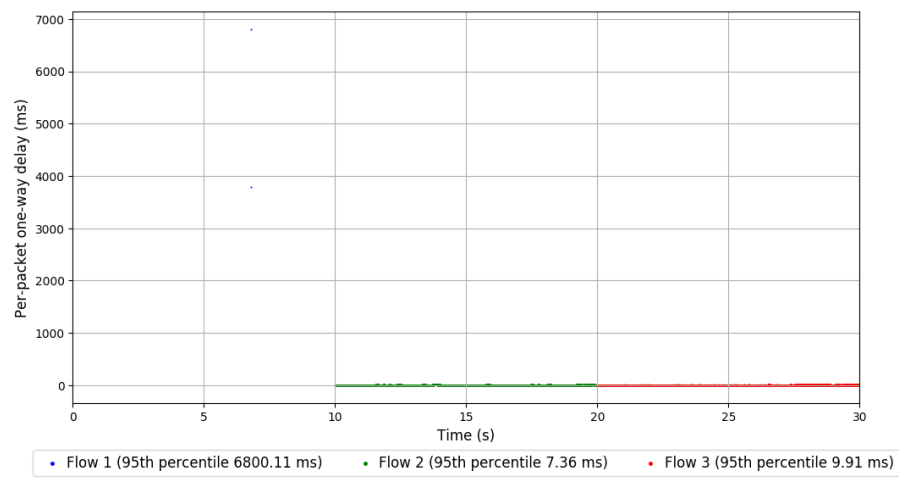
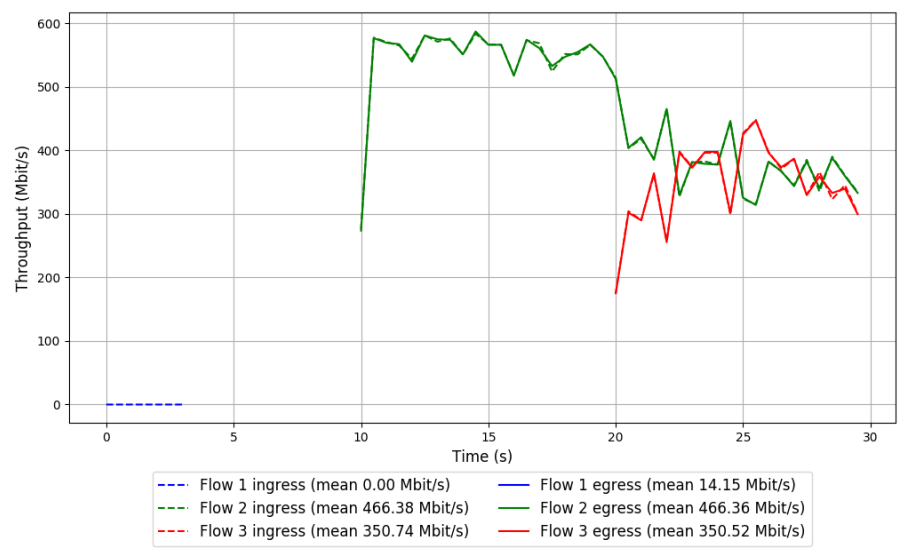
Start at: 2017-09-21 20:00:33

End at: 2017-09-21 20:01:03

Local clock offset: 0.058 ms

Remote clock offset: 0.329 ms

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2017-09-21 20:19:05

End at: 2017-09-21 20:19:35

Local clock offset: 0.081 ms

Remote clock offset: 0.566 ms

Below is generated by plot.py at 2017-09-22 02:38:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 647.09 Mbit/s

95th percentile per-packet one-way delay: 7.095 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 386.33 Mbit/s

95th percentile per-packet one-way delay: 7.400 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 285.51 Mbit/s

95th percentile per-packet one-way delay: 7.930 ms

Loss rate: 0.04%

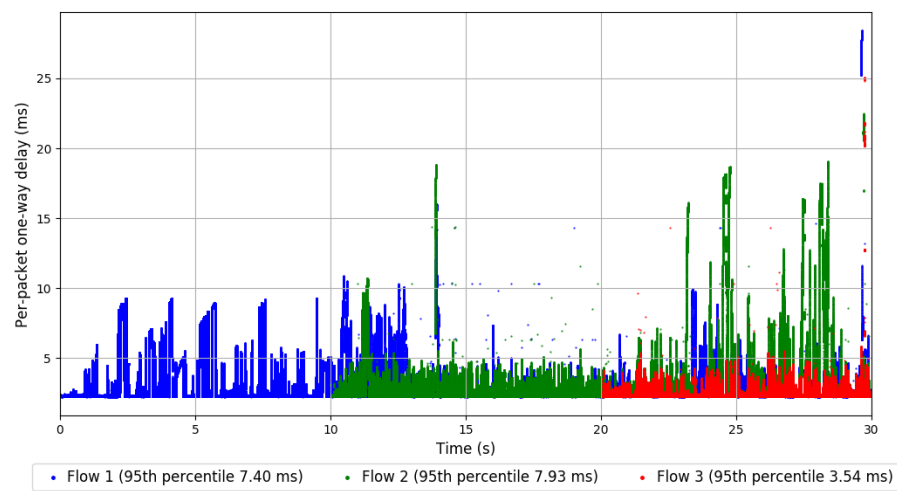
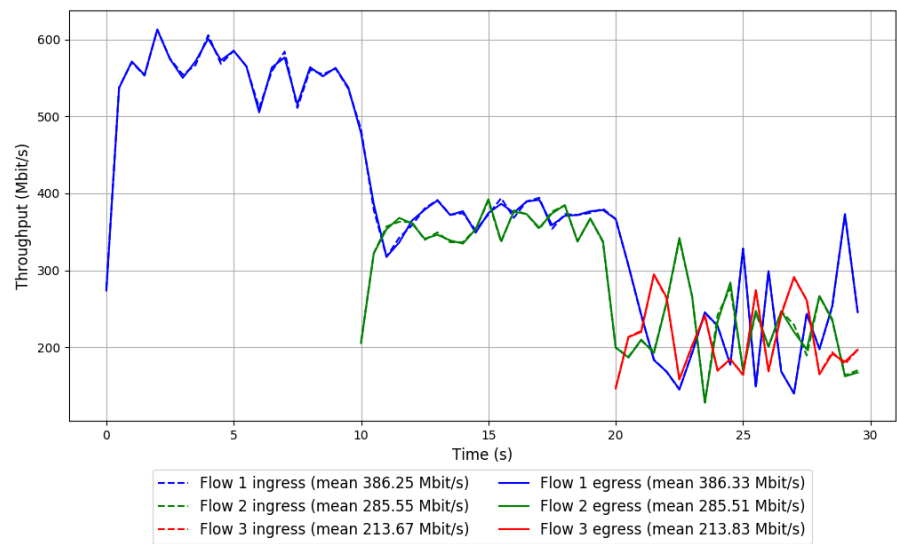
-- Flow 3:

Average throughput: 213.83 Mbit/s

95th percentile per-packet one-way delay: 3.535 ms

Loss rate: 0.03%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

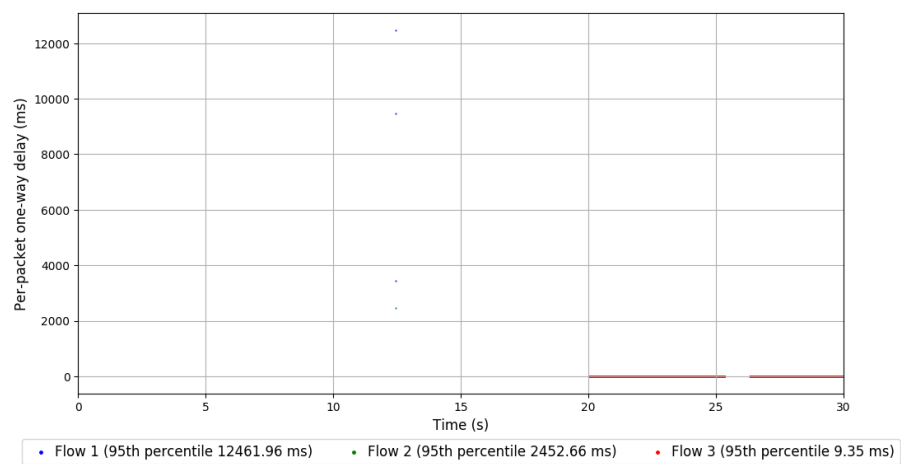
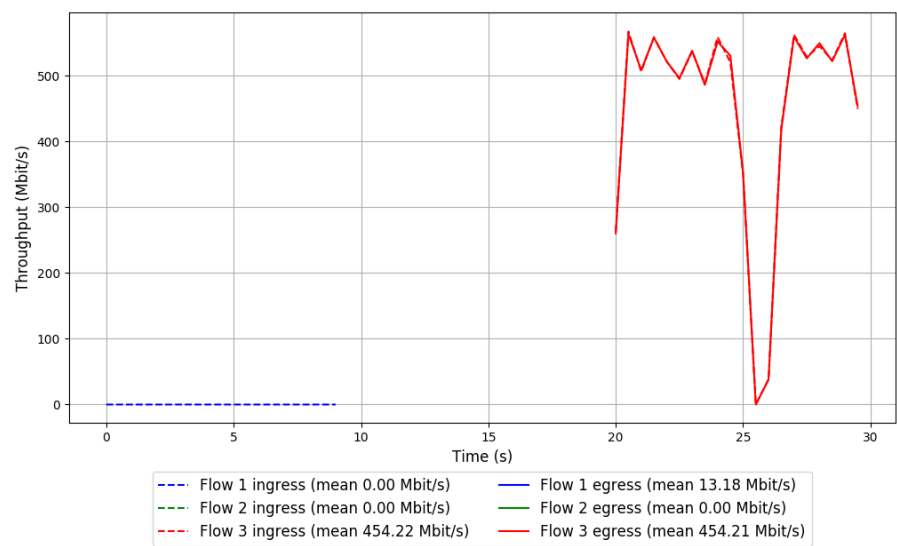
Start at: 2017-09-21 20:38:18

End at: 2017-09-21 20:38:48

Local clock offset: 0.073 ms

Remote clock offset: 0.683 ms

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2017-09-21 20:56:41

End at: 2017-09-21 20:57:11

Local clock offset: -0.011 ms

Remote clock offset: 0.82 ms

Below is generated by plot.py at 2017-09-22 02:42:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 648.32 Mbit/s

95th percentile per-packet one-way delay: 6.626 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 371.36 Mbit/s

95th percentile per-packet one-way delay: 7.693 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 299.40 Mbit/s

95th percentile per-packet one-way delay: 4.754 ms

Loss rate: 0.02%

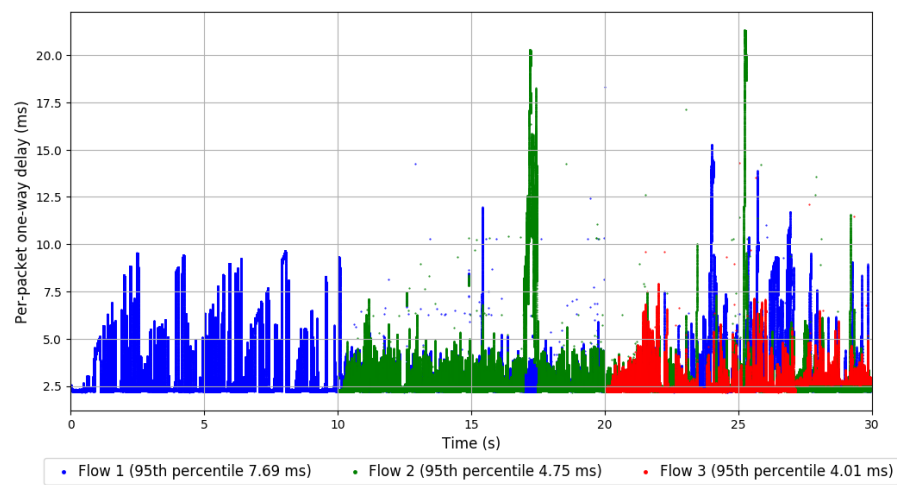
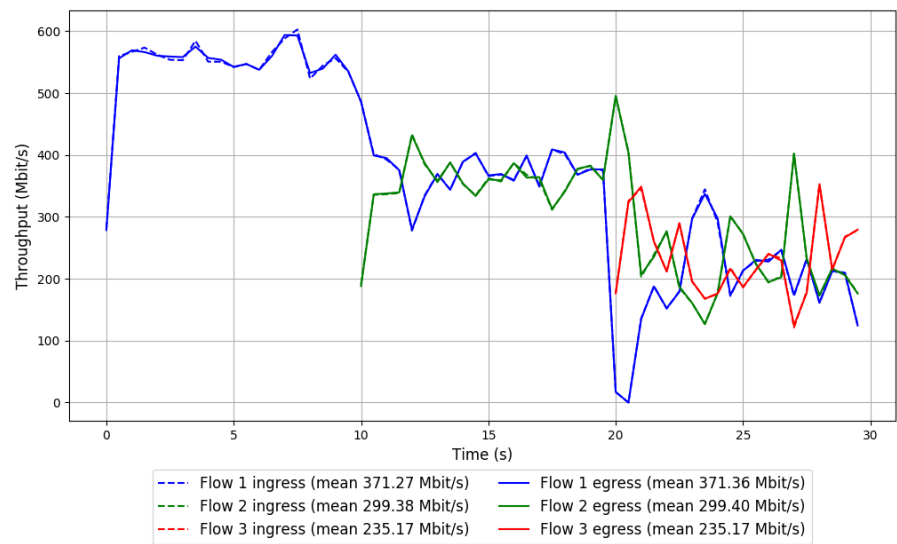
-- Flow 3:

Average throughput: 235.17 Mbit/s

95th percentile per-packet one-way delay: 4.011 ms

Loss rate: 0.05%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2017-09-21 21:15:28

End at: 2017-09-21 21:15:58

Local clock offset: 0.067 ms

Remote clock offset: 0.888 ms

Below is generated by plot.py at 2017-09-22 02:43:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 638.33 Mbit/s

95th percentile per-packet one-way delay: 8.990 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 377.97 Mbit/s

95th percentile per-packet one-way delay: 9.129 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 284.54 Mbit/s

95th percentile per-packet one-way delay: 10.203 ms

Loss rate: 0.01%

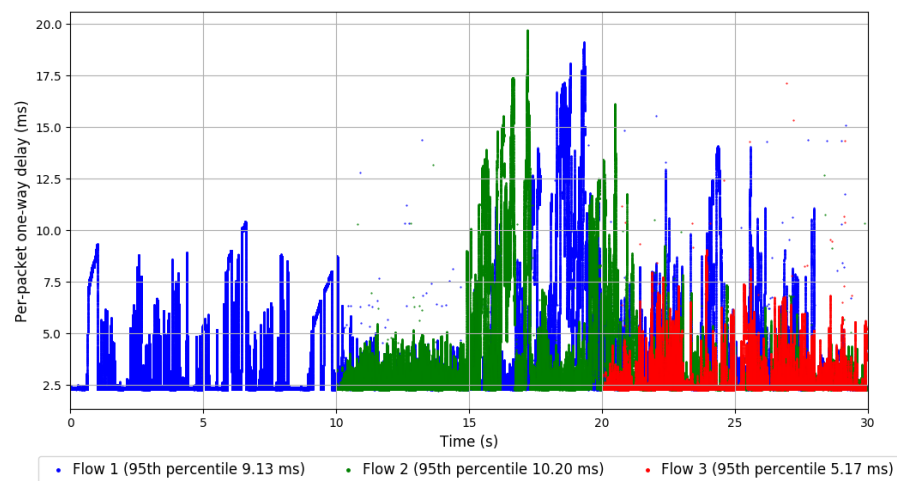
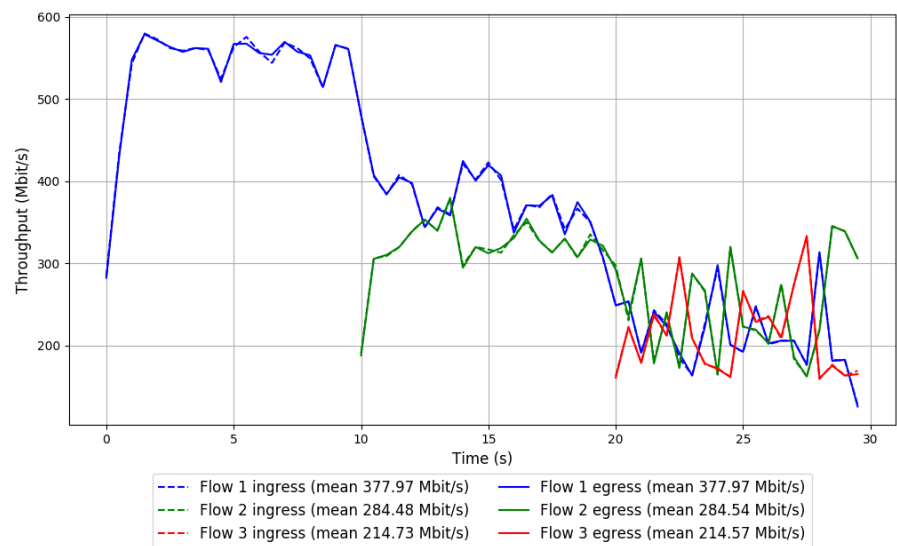
-- Flow 3:

Average throughput: 214.57 Mbit/s

95th percentile per-packet one-way delay: 5.166 ms

Loss rate: 0.12%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2017-09-21 21:34:22

End at: 2017-09-21 21:34:52

Local clock offset: 0.031 ms

Remote clock offset: 0.754 ms

Below is generated by plot.py at 2017-09-22 02:44:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 651.87 Mbit/s

95th percentile per-packet one-way delay: 8.287 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 413.01 Mbit/s

95th percentile per-packet one-way delay: 11.553 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 329.68 Mbit/s

95th percentile per-packet one-way delay: 5.697 ms

Loss rate: 0.03%

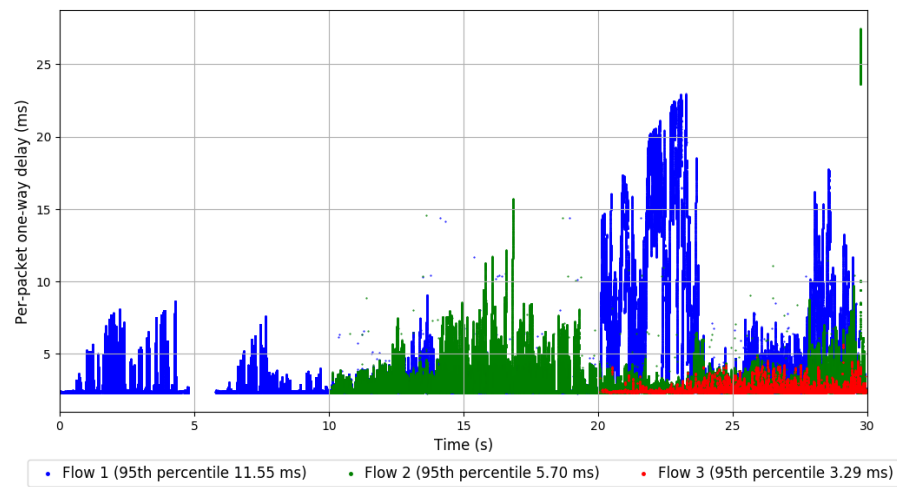
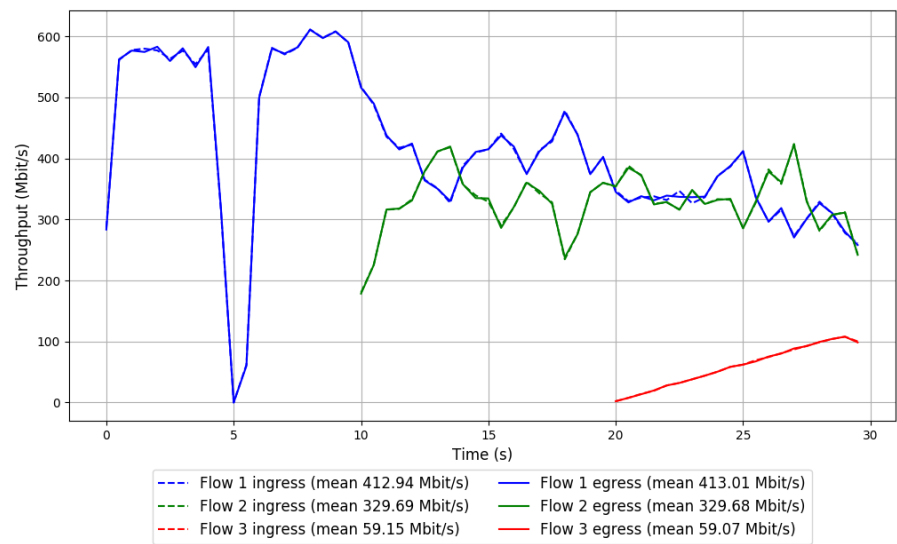
-- Flow 3:

Average throughput: 59.07 Mbit/s

95th percentile per-packet one-way delay: 3.287 ms

Loss rate: 0.14%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2017-09-21 21:53:32

End at: 2017-09-21 21:54:02

Local clock offset: 0.039 ms

Remote clock offset: 0.747 ms

Below is generated by plot.py at 2017-09-22 02:44:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 634.02 Mbit/s

95th percentile per-packet one-way delay: 8.405 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 367.60 Mbit/s

95th percentile per-packet one-way delay: 8.077 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 283.30 Mbit/s

95th percentile per-packet one-way delay: 5.547 ms

Loss rate: 0.05%

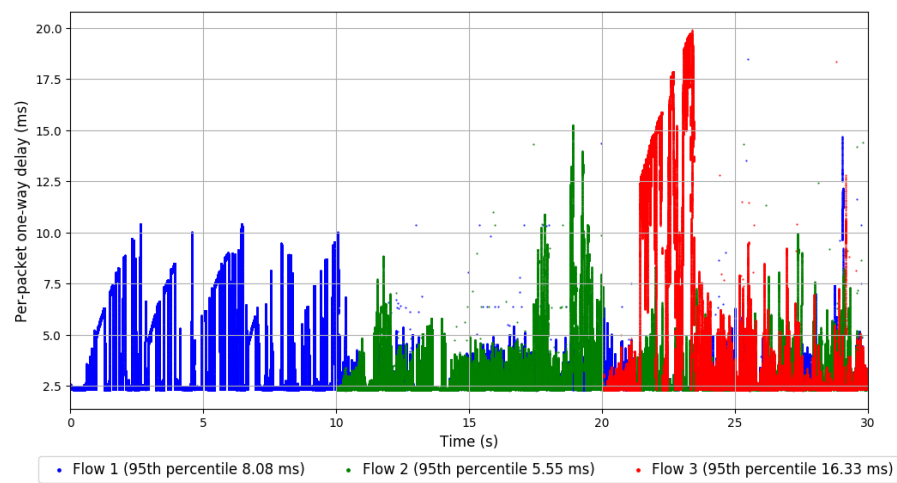
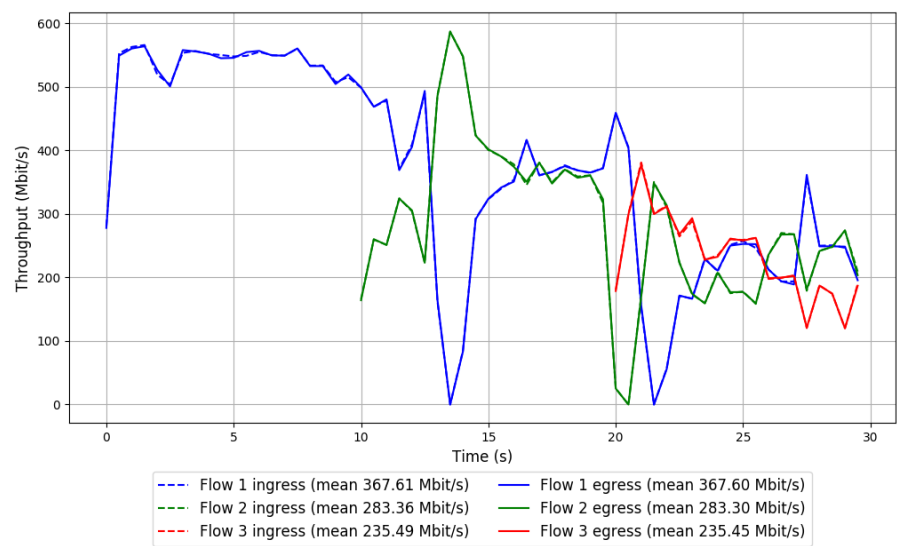
-- Flow 3:

Average throughput: 235.45 Mbit/s

95th percentile per-packet one-way delay: 16.334 ms

Loss rate: 0.07%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2017-09-21 22:12:27

End at: 2017-09-21 22:12:57

Local clock offset: 0.03 ms

Remote clock offset: 0.734 ms

Below is generated by plot.py at 2017-09-22 02:44:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 633.99 Mbit/s

95th percentile per-packet one-way delay: 9.478 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 373.66 Mbit/s

95th percentile per-packet one-way delay: 5.094 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 284.38 Mbit/s

95th percentile per-packet one-way delay: 15.068 ms

Loss rate: 0.01%

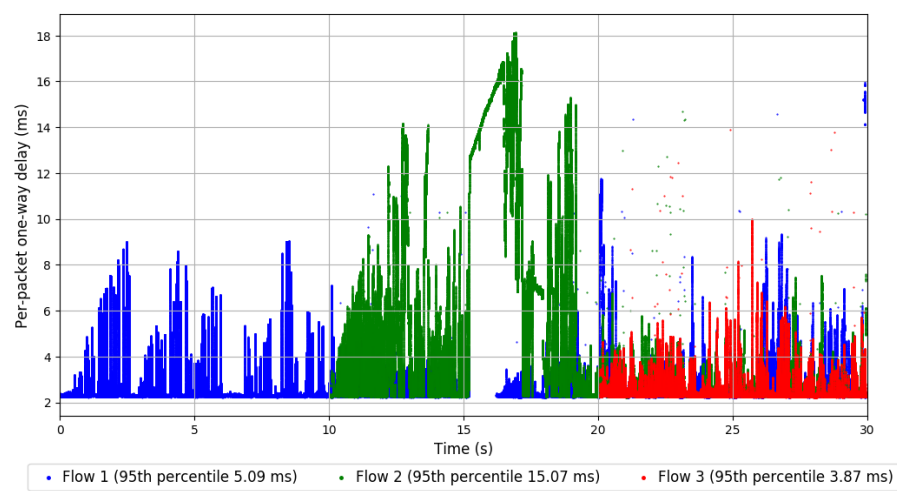
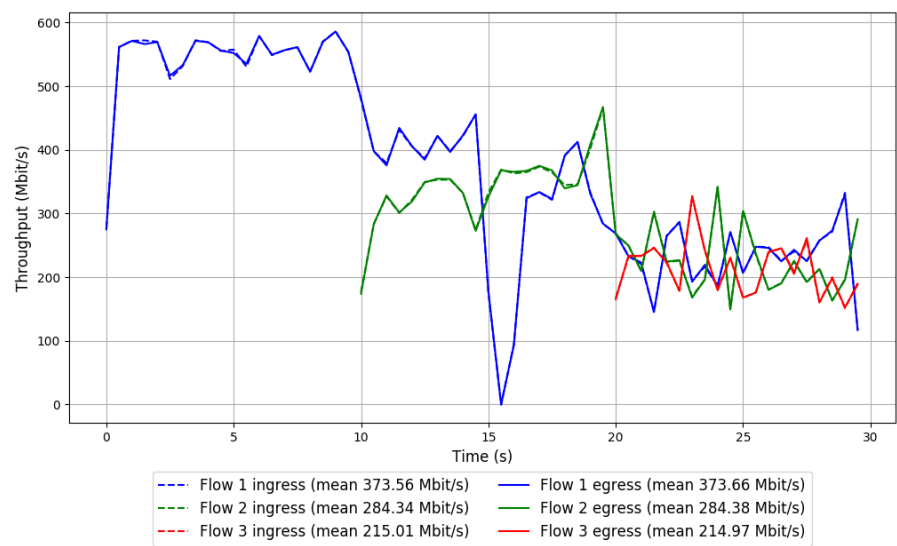
-- Flow 3:

Average throughput: 214.97 Mbit/s

95th percentile per-packet one-way delay: 3.867 ms

Loss rate: 0.08%

Run 10: Report of LEDBAT — Data Link



Run 1: Statistics of PCC

Start at: 2017-09-21 19:34:50

End at: 2017-09-21 19:35:20

Local clock offset: 0.049 ms

Remote clock offset: -0.02 ms

Below is generated by plot.py at 2017-09-22 02:47:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 699.27 Mbit/s

95th percentile per-packet one-way delay: 3.234 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 575.19 Mbit/s

95th percentile per-packet one-way delay: 3.287 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 169.33 Mbit/s

95th percentile per-packet one-way delay: 3.059 ms

Loss rate: 0.02%

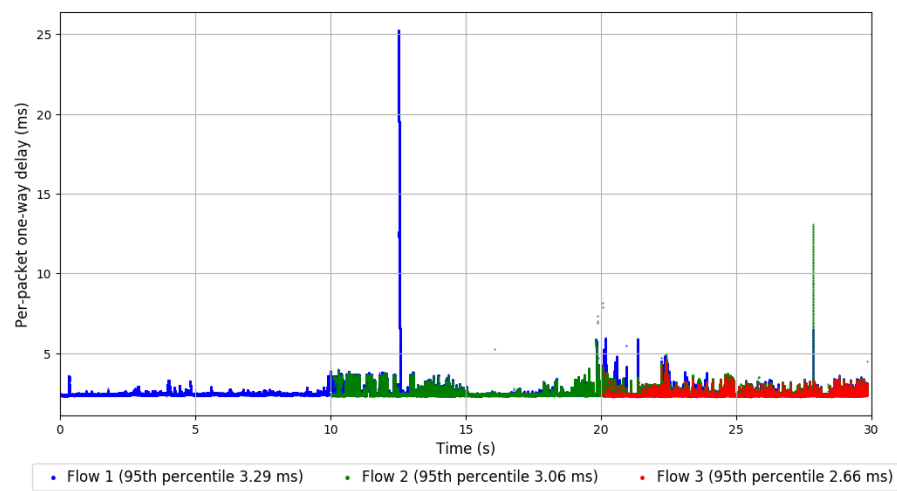
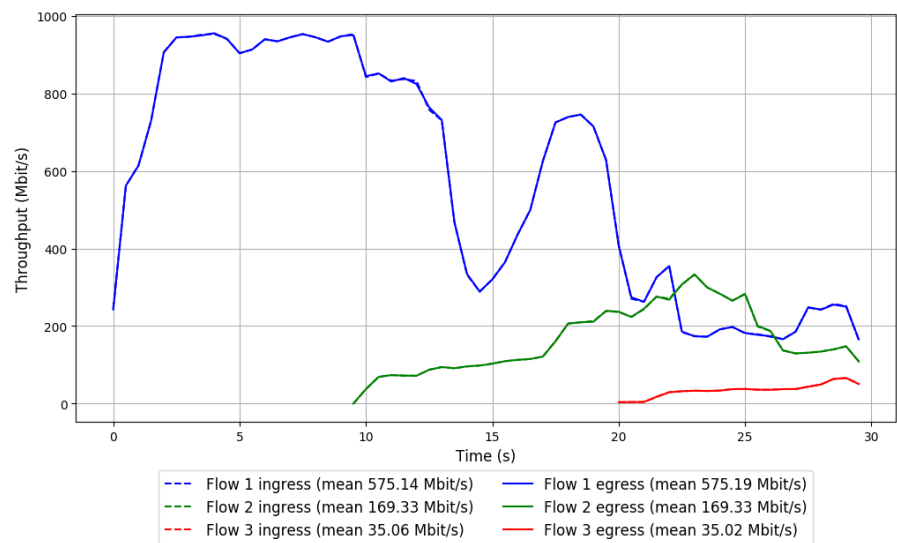
-- Flow 3:

Average throughput: 35.02 Mbit/s

95th percentile per-packet one-way delay: 2.662 ms

Loss rate: 0.12%

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

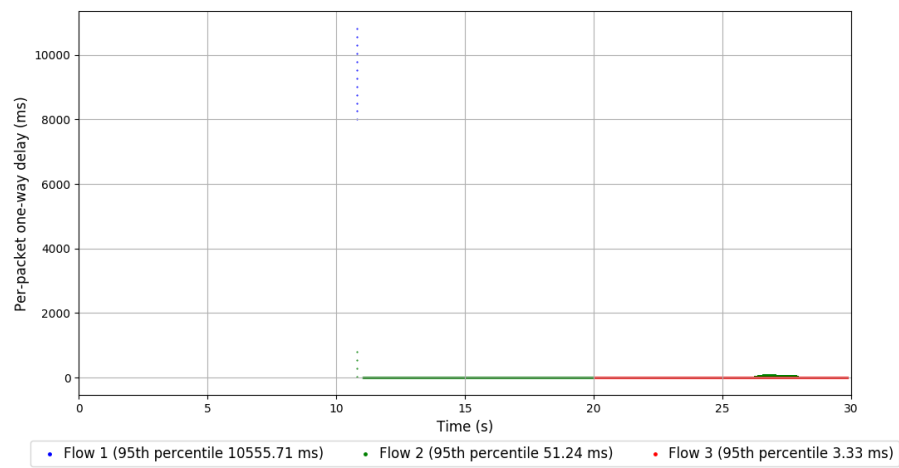
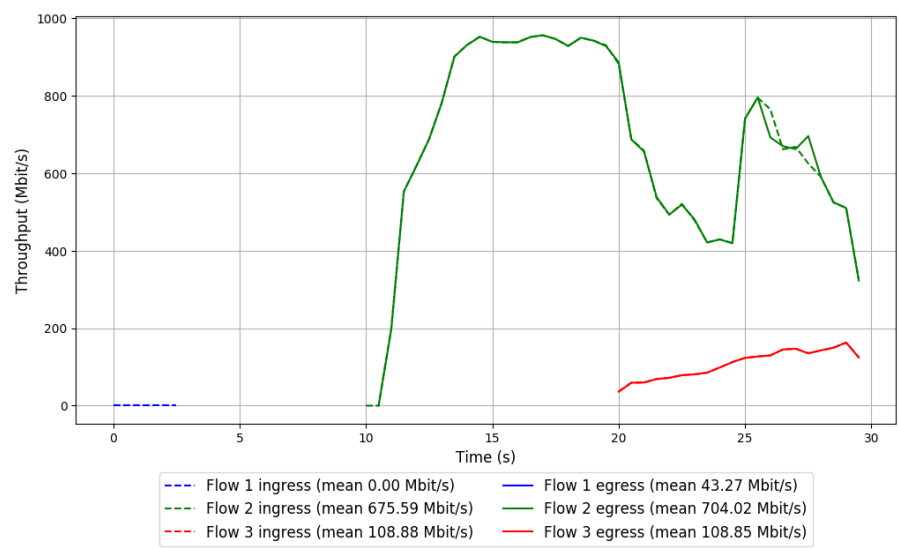
Start at: 2017-09-21 19:53:45

End at: 2017-09-21 19:54:15

Local clock offset: -0.004 ms

Remote clock offset: 0.204 ms

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2017-09-21 20:12:20

End at: 2017-09-21 20:12:50

Local clock offset: 0.09 ms

Remote clock offset: 0.45 ms

Below is generated by plot.py at 2017-09-22 02:48:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 779.24 Mbit/s

95th percentile per-packet one-way delay: 37.890 ms

Loss rate: 1.17%

-- Flow 1:

Average throughput: 602.83 Mbit/s

95th percentile per-packet one-way delay: 65.600 ms

Loss rate: 1.50%

-- Flow 2:

Average throughput: 245.33 Mbit/s

95th percentile per-packet one-way delay: 3.823 ms

Loss rate: 0.02%

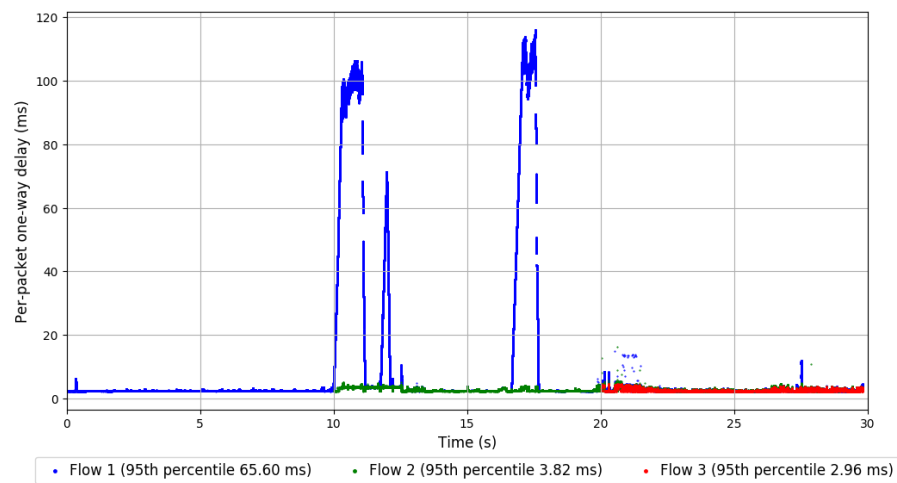
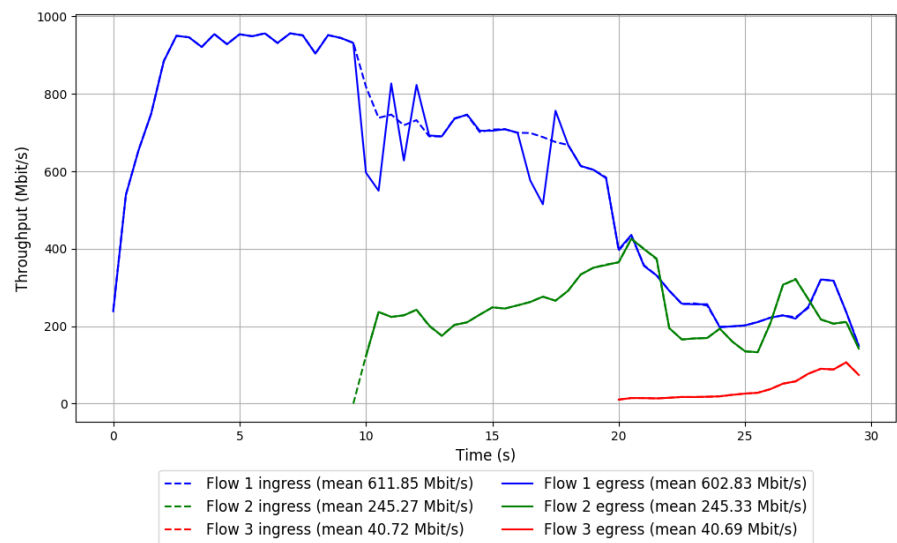
-- Flow 3:

Average throughput: 40.69 Mbit/s

95th percentile per-packet one-way delay: 2.956 ms

Loss rate: 0.13%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2017-09-21 20:31:18

End at: 2017-09-21 20:31:48

Local clock offset: 0.012 ms

Remote clock offset: 0.655 ms

Below is generated by plot.py at 2017-09-22 02:54:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 817.01 Mbit/s

95th percentile per-packet one-way delay: 75.416 ms

Loss rate: 1.04%

-- Flow 1:

Average throughput: 740.89 Mbit/s

95th percentile per-packet one-way delay: 81.531 ms

Loss rate: 1.14%

-- Flow 2:

Average throughput: 9.49 Mbit/s

95th percentile per-packet one-way delay: 3.162 ms

Loss rate: 0.06%

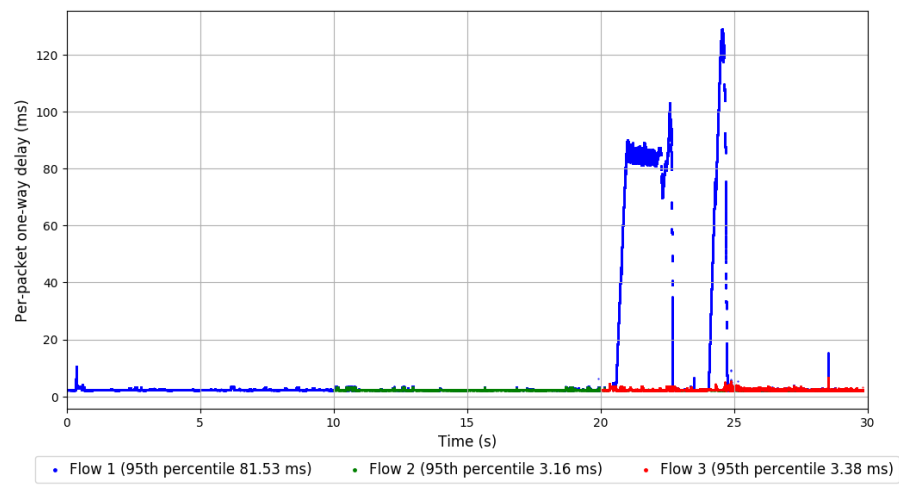
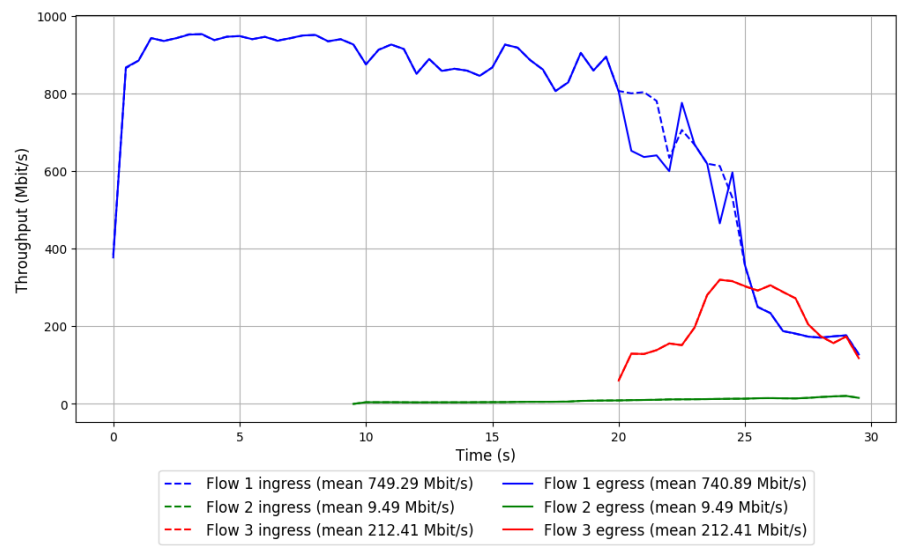
-- Flow 3:

Average throughput: 212.41 Mbit/s

95th percentile per-packet one-way delay: 3.381 ms

Loss rate: 0.04%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2017-09-21 20:49:55

End at: 2017-09-21 20:50:25

Local clock offset: 0.019 ms

Remote clock offset: 0.765 ms

Below is generated by plot.py at 2017-09-22 02:54:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 806.60 Mbit/s

95th percentile per-packet one-way delay: 62.571 ms

Loss rate: 0.55%

-- Flow 1:

Average throughput: 614.96 Mbit/s

95th percentile per-packet one-way delay: 79.034 ms

Loss rate: 0.71%

-- Flow 2:

Average throughput: 175.43 Mbit/s

95th percentile per-packet one-way delay: 3.004 ms

Loss rate: 0.04%

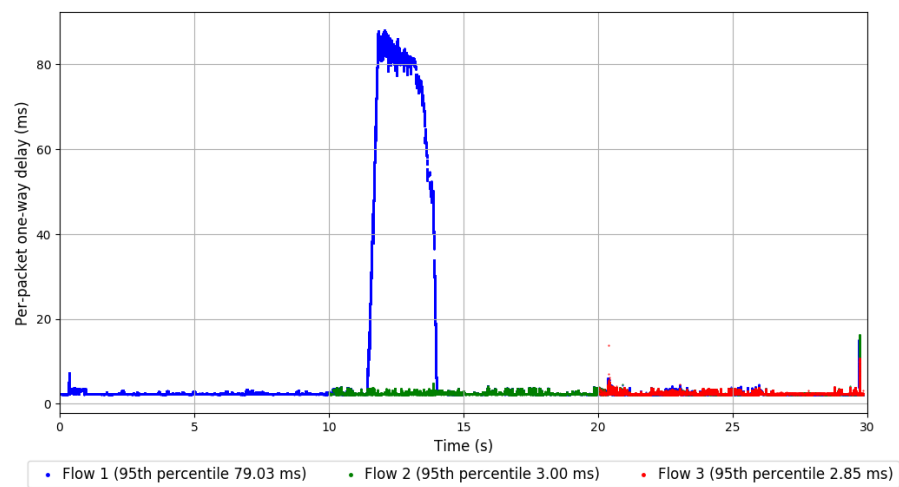
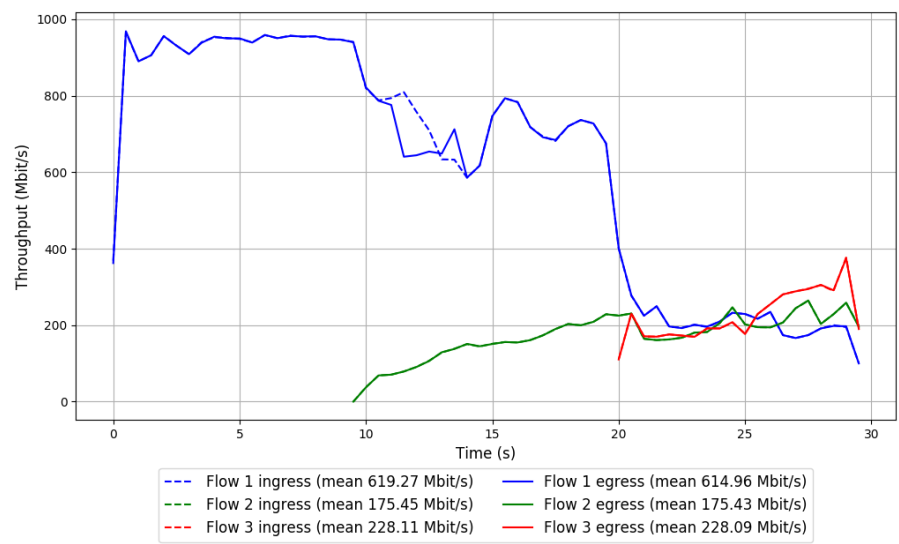
-- Flow 3:

Average throughput: 228.09 Mbit/s

95th percentile per-packet one-way delay: 2.855 ms

Loss rate: 0.05%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2017-09-21 21:08:42

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

Local clock offset: 0.042 ms

Remote clock offset: 0.871 ms

Below is generated by plot.py at 2017-09-22 02:54:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 727.16 Mbit/s

95th percentile per-packet one-way delay: 3.470 ms

Loss rate: 0.25%

-- Flow 1:

Average throughput: 643.43 Mbit/s

95th percentile per-packet one-way delay: 3.497 ms

Loss rate: 0.28%

-- Flow 2:

Average throughput: 99.13 Mbit/s

95th percentile per-packet one-way delay: 2.954 ms

Loss rate: 0.04%

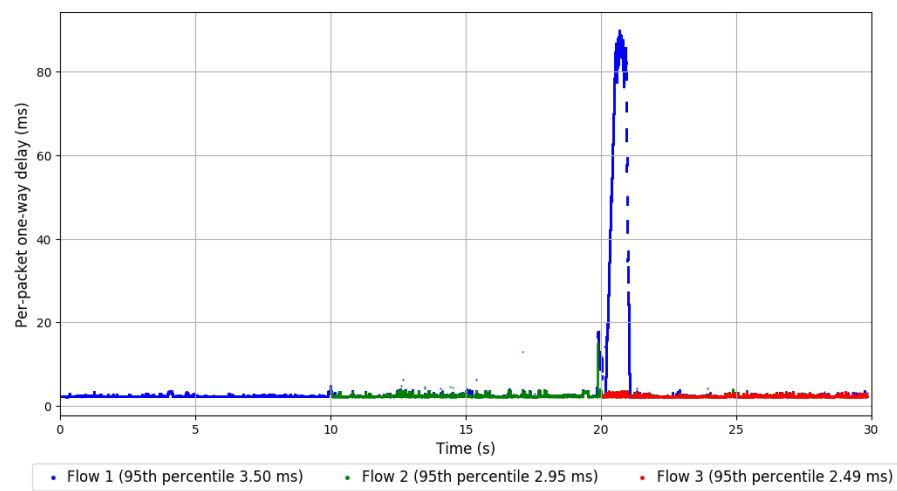
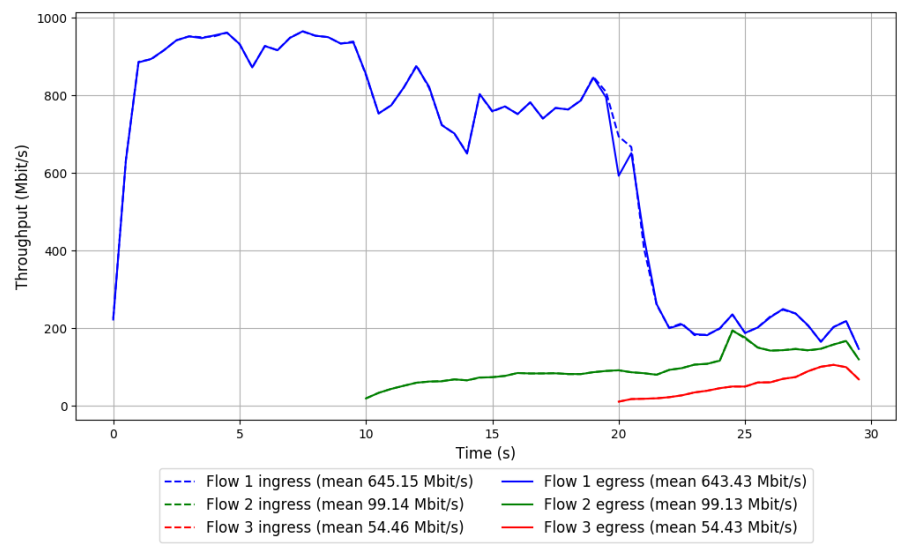
-- Flow 3:

Average throughput: 54.43 Mbit/s

95th percentile per-packet one-way delay: 2.486 ms

Loss rate: 0.09%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2017-09-21 21:27:38

End at: 2017-09-21 21:28:08

Local clock offset: 0.046 ms

Remote clock offset: 0.842 ms

Below is generated by plot.py at 2017-09-22 02:54:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 732.96 Mbit/s

95th percentile per-packet one-way delay: 4.175 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 539.45 Mbit/s

95th percentile per-packet one-way delay: 4.152 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 248.10 Mbit/s

95th percentile per-packet one-way delay: 4.221 ms

Loss rate: 0.02%

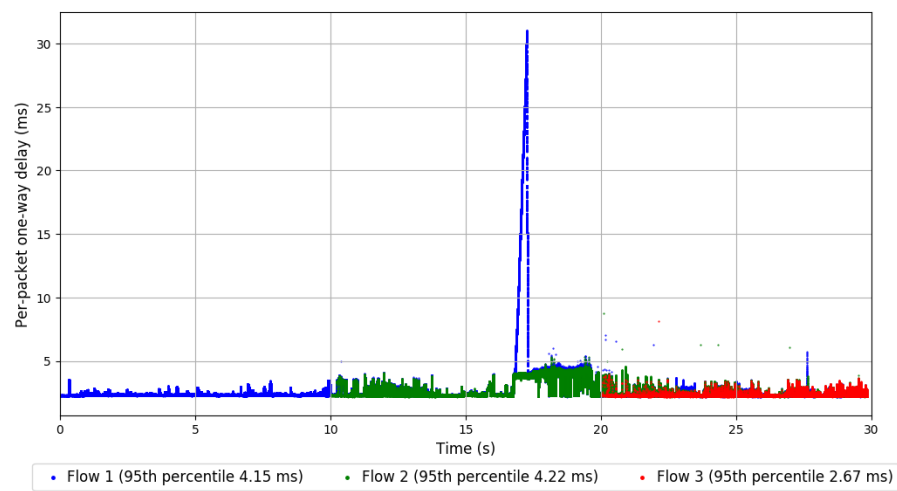
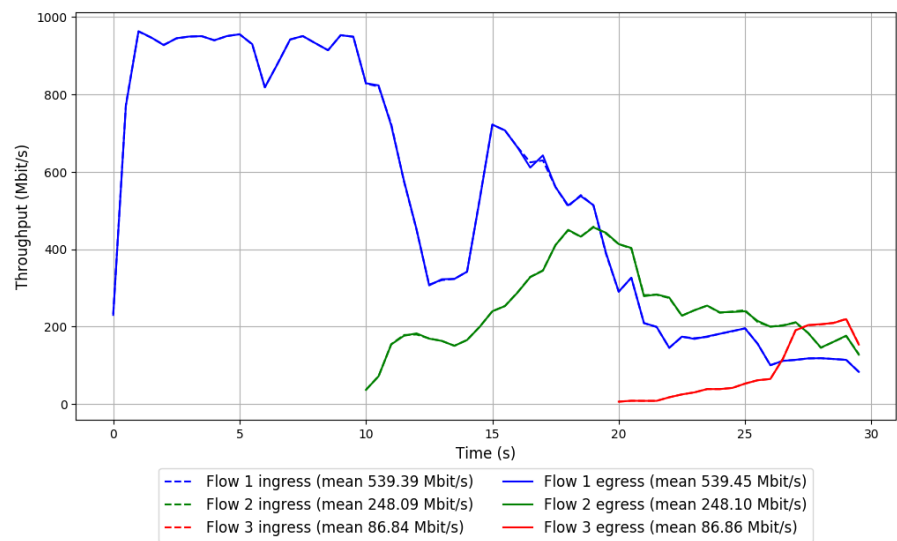
-- Flow 3:

Average throughput: 86.86 Mbit/s

95th percentile per-packet one-way delay: 2.669 ms

Loss rate: 0.12%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2017-09-21 21:46:28

End at: 2017-09-21 21:46:58

Local clock offset: 0.063 ms

Remote clock offset: 0.718 ms

Below is generated by plot.py at 2017-09-22 02:55:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 742.96 Mbit/s

95th percentile per-packet one-way delay: 4.178 ms

Loss rate: 0.74%

-- Flow 1:

Average throughput: 581.38 Mbit/s

95th percentile per-packet one-way delay: 4.277 ms

Loss rate: 0.94%

-- Flow 2:

Average throughput: 236.70 Mbit/s

95th percentile per-packet one-way delay: 3.884 ms

Loss rate: 0.02%

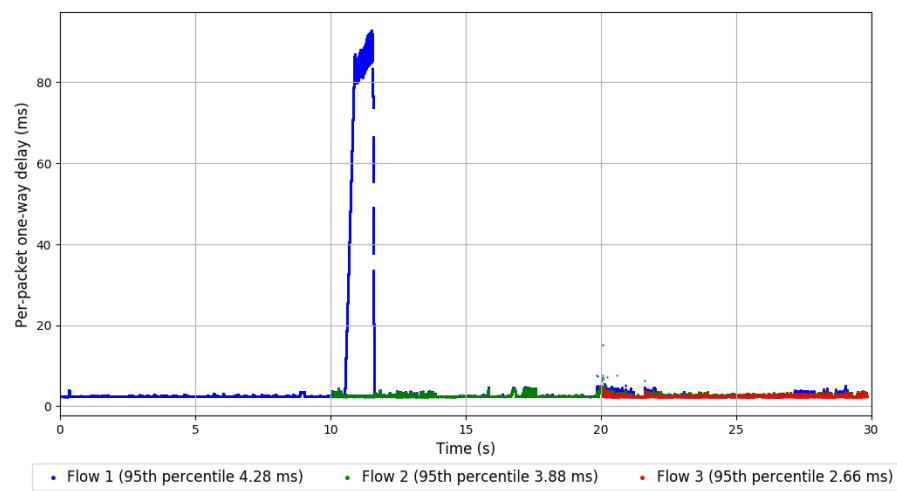
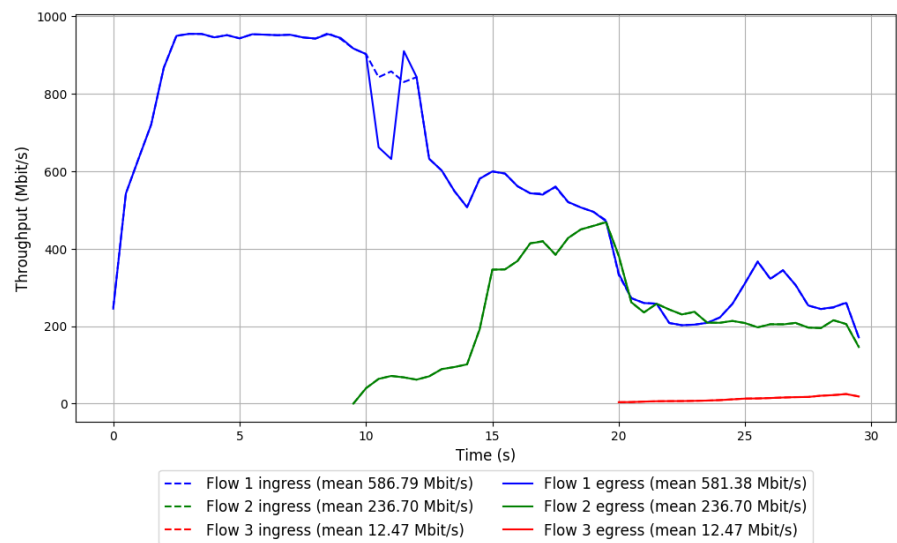
-- Flow 3:

Average throughput: 12.47 Mbit/s

95th percentile per-packet one-way delay: 2.658 ms

Loss rate: 0.09%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2017-09-21 22:05:41

End at: 2017-09-21 22:06:11

Local clock offset: -0.076 ms

Remote clock offset: 0.665 ms

Below is generated by plot.py at 2017-09-22 02:56:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 766.92 Mbit/s

95th percentile per-packet one-way delay: 84.560 ms

Loss rate: 3.47%

-- Flow 1:

Average throughput: 629.80 Mbit/s

95th percentile per-packet one-way delay: 84.949 ms

Loss rate: 4.18%

-- Flow 2:

Average throughput: 92.44 Mbit/s

95th percentile per-packet one-way delay: 3.737 ms

Loss rate: 0.07%

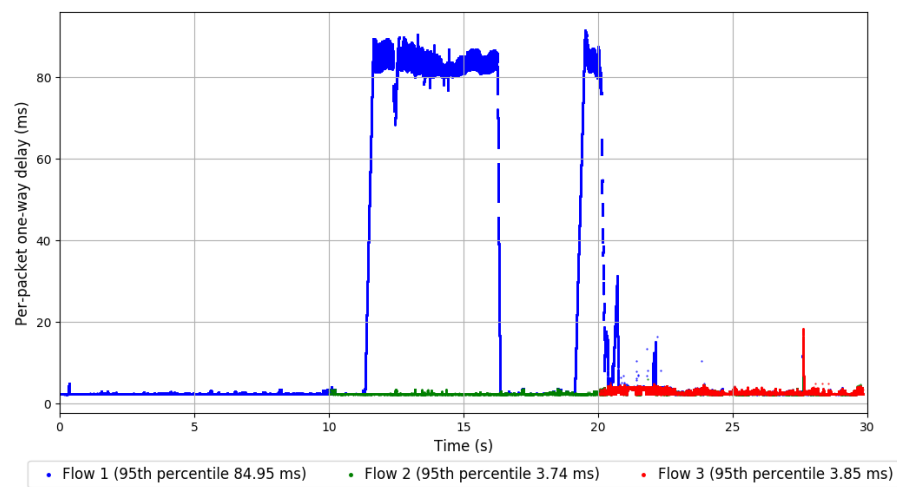
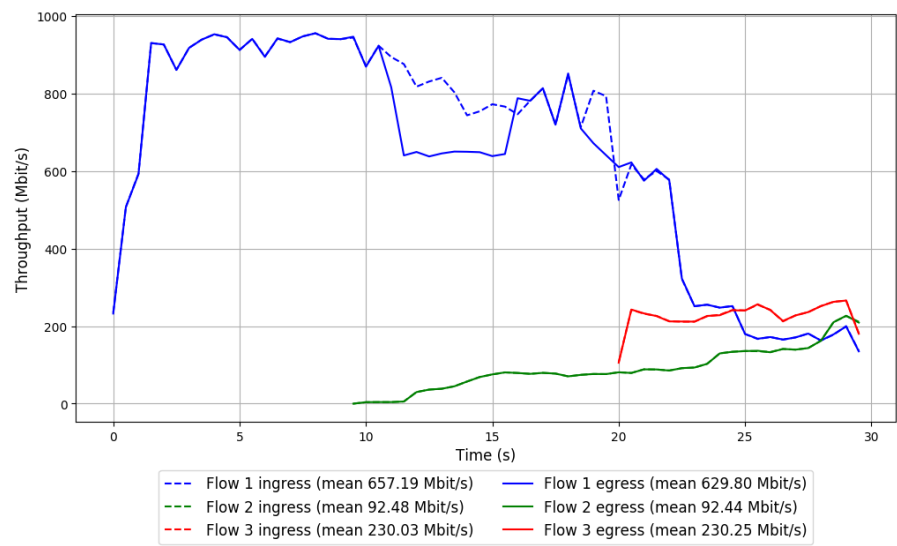
-- Flow 3:

Average throughput: 230.25 Mbit/s

95th percentile per-packet one-way delay: 3.848 ms

Loss rate: 0.06%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2017-09-21 22:24:34

End at: 2017-09-21 22:25:05

Local clock offset: -0.02 ms

Remote clock offset: 0.5 ms

Below is generated by plot.py at 2017-09-22 02:58:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 730.48 Mbit/s

95th percentile per-packet one-way delay: 3.149 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 589.74 Mbit/s

95th percentile per-packet one-way delay: 3.056 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 102.07 Mbit/s

95th percentile per-packet one-way delay: 3.132 ms

Loss rate: 0.05%

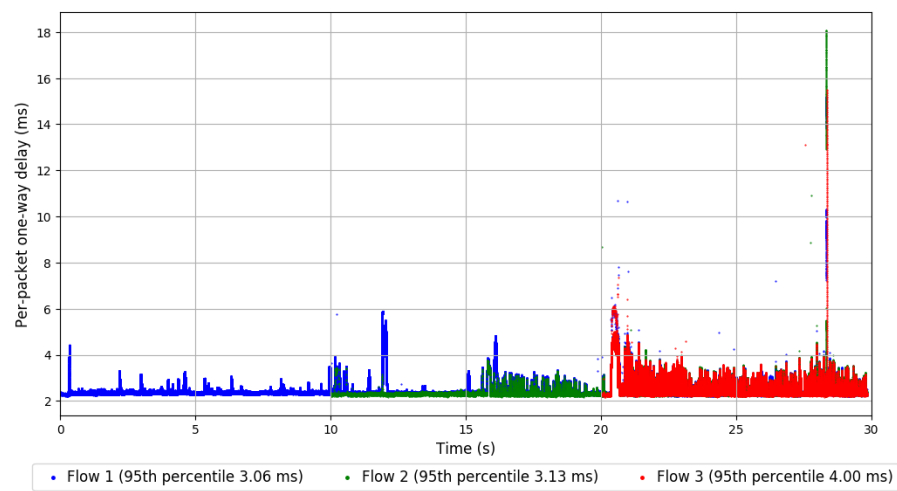
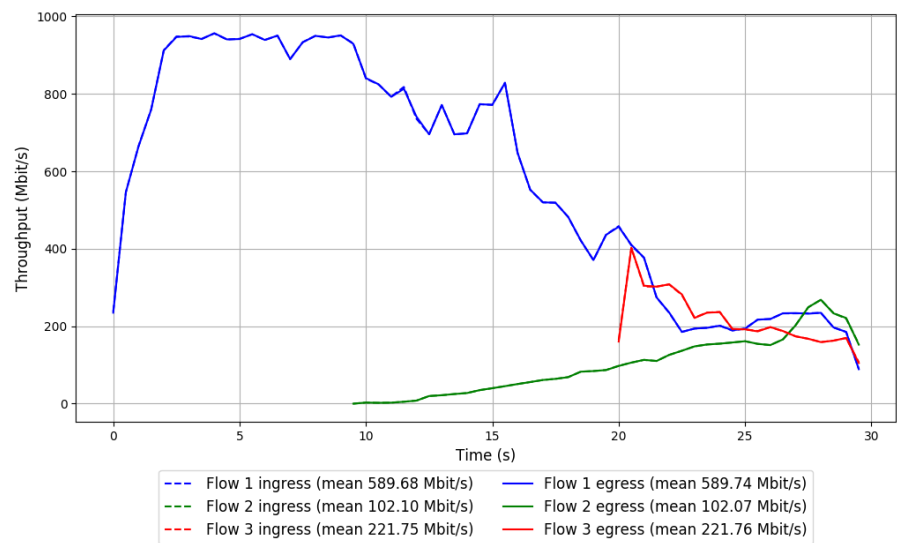
-- Flow 3:

Average throughput: 221.76 Mbit/s

95th percentile per-packet one-way delay: 3.995 ms

Loss rate: 0.09%

Run 10: Report of PCC — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2017-09-21 19:33:43

End at: 2017-09-21 19:34:13

Local clock offset: -0.051 ms

Remote clock offset: 0.032 ms

Below is generated by plot.py at 2017-09-22 02:58:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 76.78 Mbit/s

95th percentile per-packet one-way delay: 2.268 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 0.97 Mbit/s

95th percentile per-packet one-way delay: 2.463 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 75.36 Mbit/s

95th percentile per-packet one-way delay: 2.262 ms

Loss rate: 0.03%

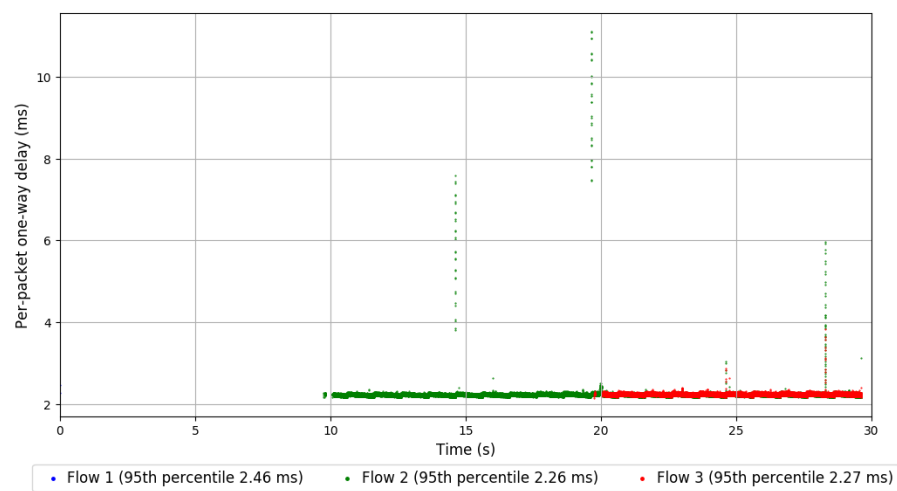
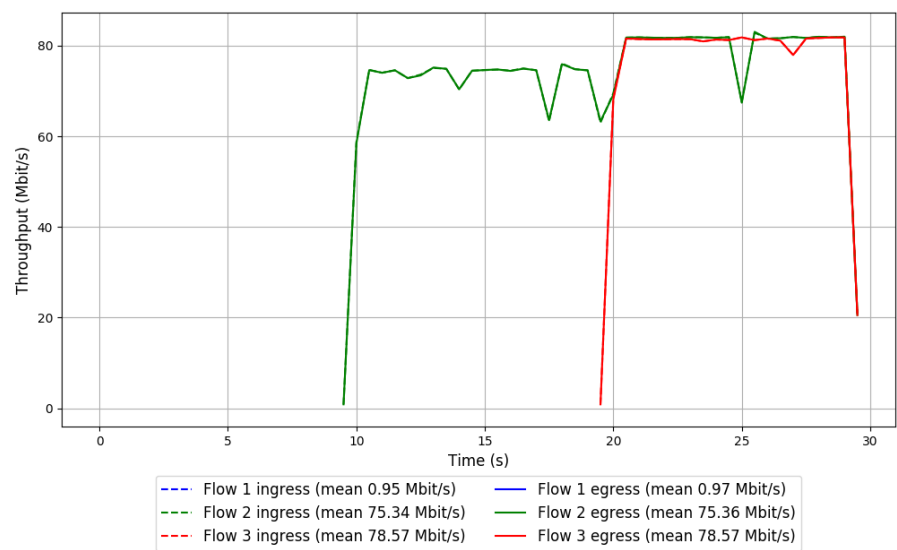
-- Flow 3:

Average throughput: 78.57 Mbit/s

95th percentile per-packet one-way delay: 2.275 ms

Loss rate: 0.05%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2017-09-21 19:52:37

End at: 2017-09-21 19:53:07

Local clock offset: 0.039 ms

Remote clock offset: 0.23 ms

Below is generated by plot.py at 2017-09-22 02:58:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 82.26 Mbit/s

95th percentile per-packet one-way delay: 2.327 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 0.68 Mbit/s

95th percentile per-packet one-way delay: 2.590 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 84.51 Mbit/s

95th percentile per-packet one-way delay: 2.328 ms

Loss rate: 0.02%

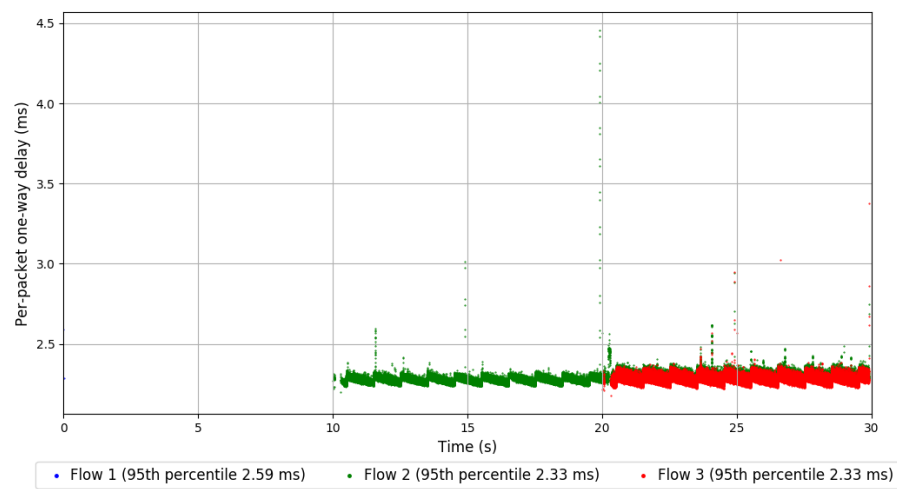
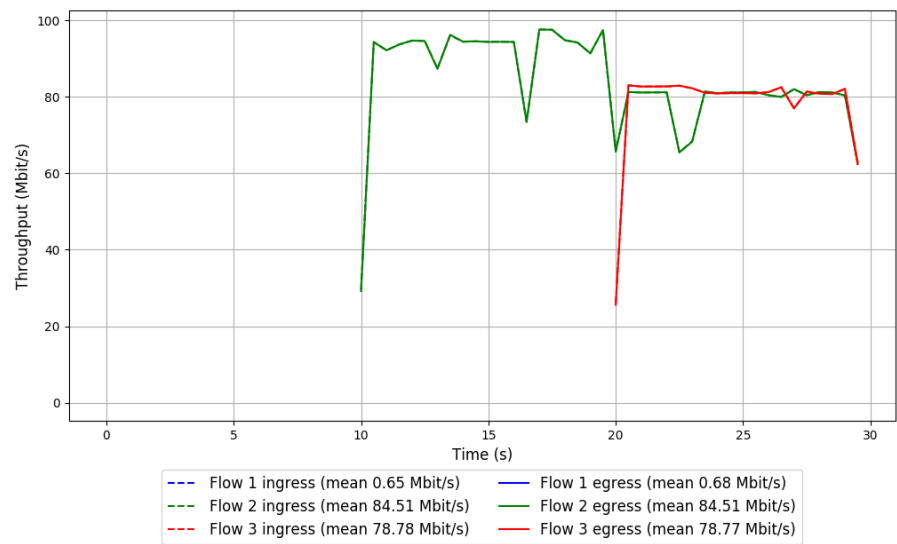
-- Flow 3:

Average throughput: 78.77 Mbit/s

95th percentile per-packet one-way delay: 2.325 ms

Loss rate: 0.05%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2017-09-21 20:11:13

End at: 2017-09-21 20:11:43

Local clock offset: 0.067 ms

Remote clock offset: 0.441 ms

Below is generated by plot.py at 2017-09-22 02:58:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 77.08 Mbit/s

95th percentile per-packet one-way delay: 2.336 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 1.16 Mbit/s

95th percentile per-packet one-way delay: 2.486 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 76.32 Mbit/s

95th percentile per-packet one-way delay: 2.333 ms

Loss rate: 0.02%

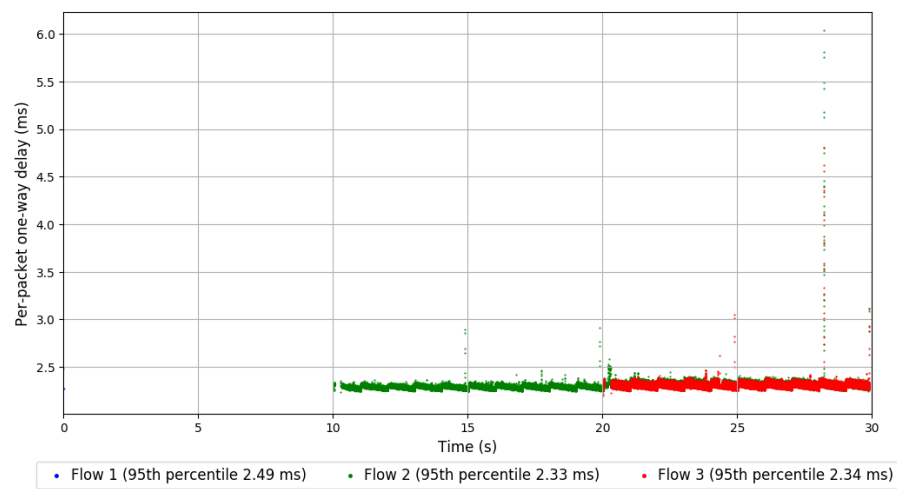
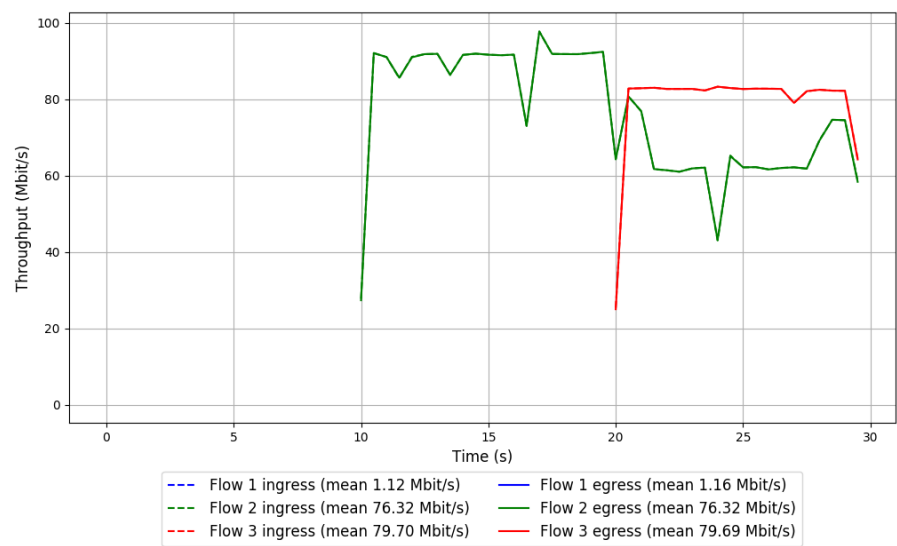
-- Flow 3:

Average throughput: 79.69 Mbit/s

95th percentile per-packet one-way delay: 2.339 ms

Loss rate: 0.04%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2017-09-21 20:30:11

End at: 2017-09-21 20:30:41

Local clock offset: 0.056 ms

Remote clock offset: 0.635 ms

Below is generated by plot.py at 2017-09-22 02:58:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 81.70 Mbit/s

95th percentile per-packet one-way delay: 2.297 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 1.15 Mbit/s

95th percentile per-packet one-way delay: 2.388 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 84.59 Mbit/s

95th percentile per-packet one-way delay: 2.282 ms

Loss rate: 0.02%

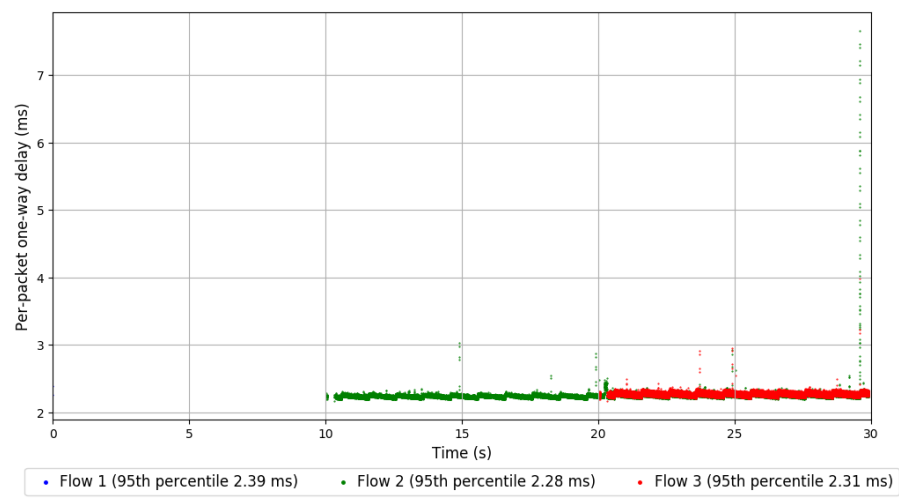
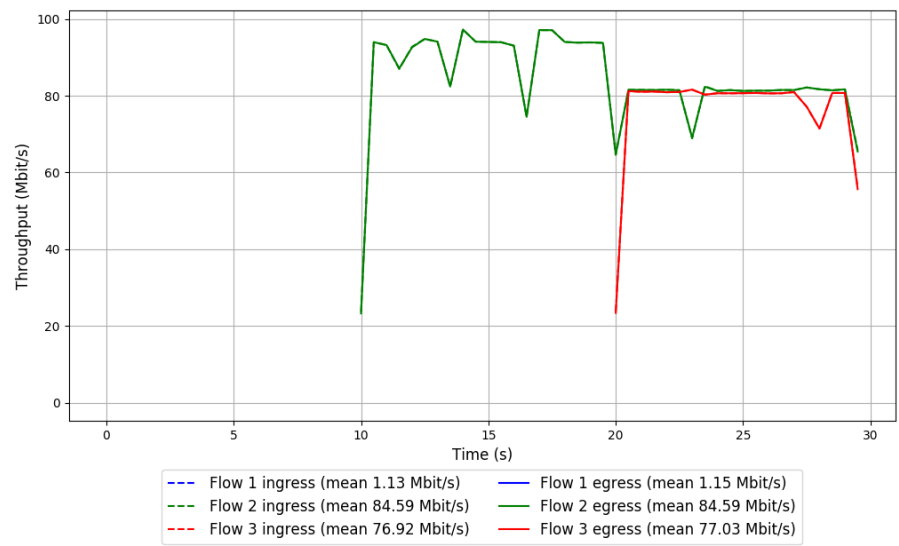
-- Flow 3:

Average throughput: 77.03 Mbit/s

95th percentile per-packet one-way delay: 2.308 ms

Loss rate: 0.05%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2017-09-21 20:48:48

End at: 2017-09-21 20:49:18

Local clock offset: -0.011 ms

Remote clock offset: 0.758 ms

Below is generated by plot.py at 2017-09-22 02:58:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 83.51 Mbit/s

95th percentile per-packet one-way delay: 2.653 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 1.13 Mbit/s

95th percentile per-packet one-way delay: 2.460 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 86.61 Mbit/s

95th percentile per-packet one-way delay: 2.642 ms

Loss rate: 0.02%

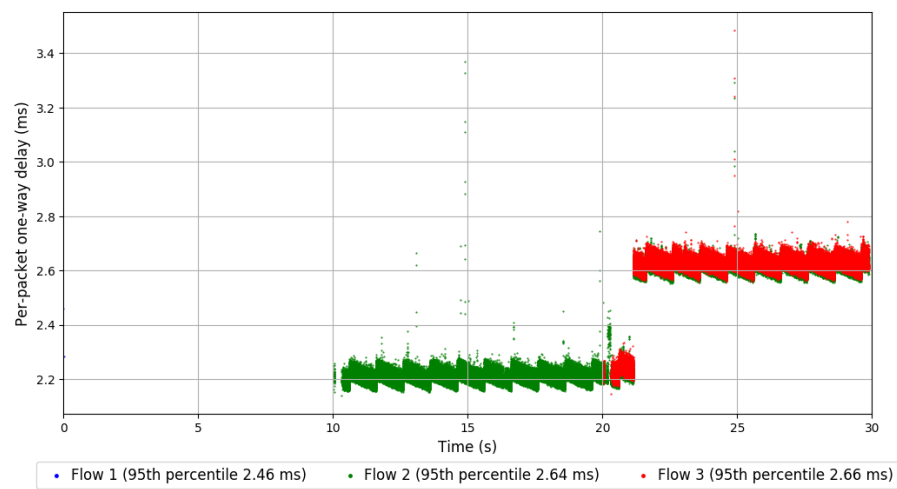
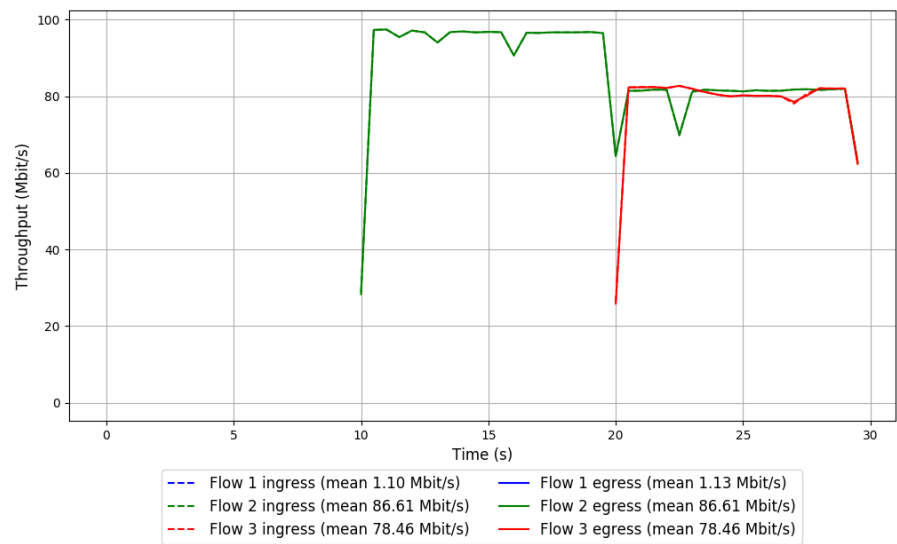
-- Flow 3:

Average throughput: 78.46 Mbit/s

95th percentile per-packet one-way delay: 2.664 ms

Loss rate: 0.05%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2017-09-21 21:07:34

End at: 2017-09-21 21:08:04

Local clock offset: 0.034 ms

Remote clock offset: 0.813 ms

Below is generated by plot.py at 2017-09-22 02:58:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 81.17 Mbit/s

95th percentile per-packet one-way delay: 2.390 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 1.11 Mbit/s

95th percentile per-packet one-way delay: 2.604 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 82.82 Mbit/s

95th percentile per-packet one-way delay: 2.381 ms

Loss rate: 0.02%

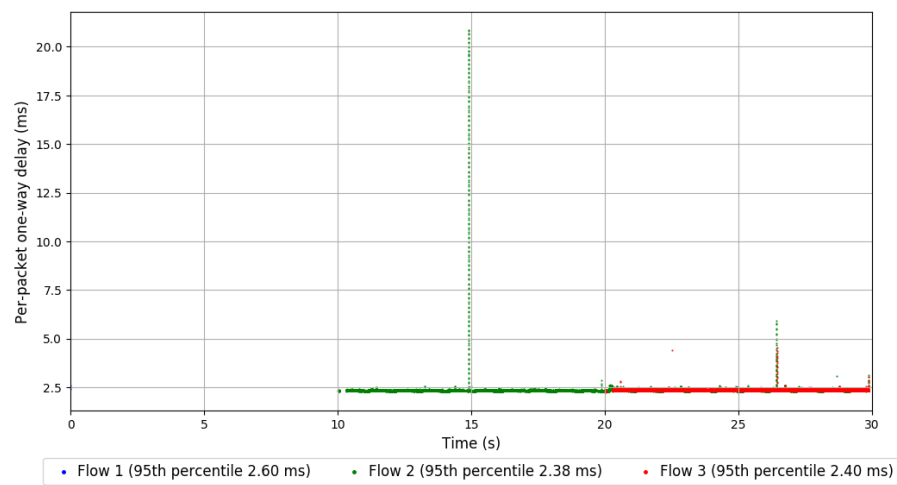
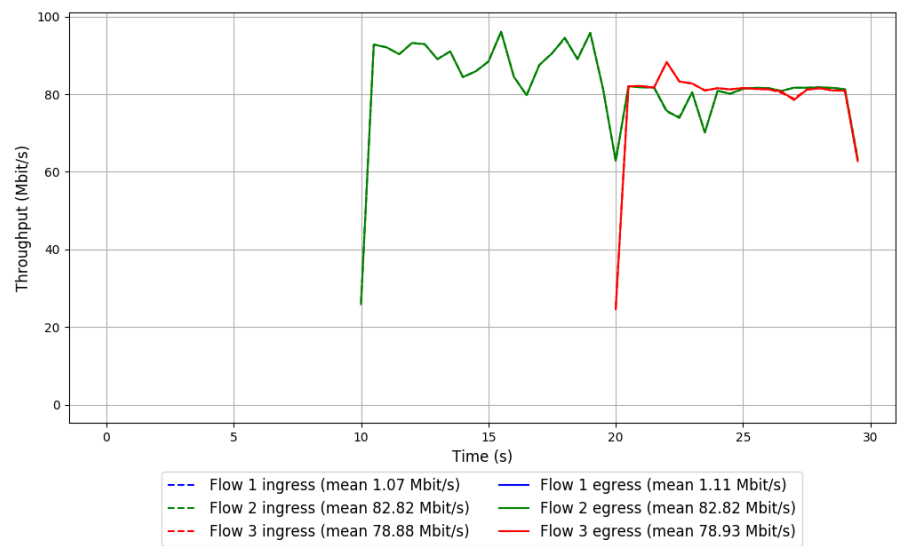
-- Flow 3:

Average throughput: 78.93 Mbit/s

95th percentile per-packet one-way delay: 2.400 ms

Loss rate: 0.04%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2017-09-21 21:26:31

End at: 2017-09-21 21:27:01

Local clock offset: -0.027 ms

Remote clock offset: 0.828 ms

Below is generated by plot.py at 2017-09-22 02:58:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 72.53 Mbit/s

95th percentile per-packet one-way delay: 2.272 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 1.05 Mbit/s

95th percentile per-packet one-way delay: 2.345 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 69.60 Mbit/s

95th percentile per-packet one-way delay: 2.267 ms

Loss rate: 0.02%

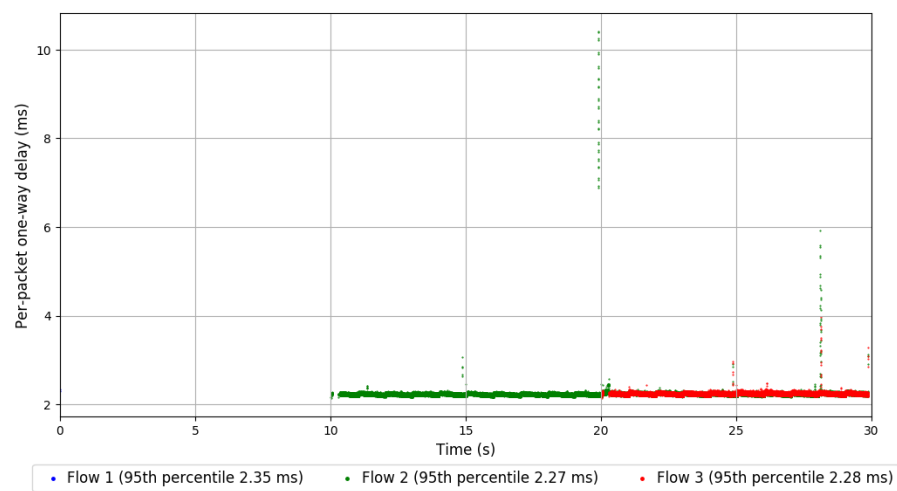
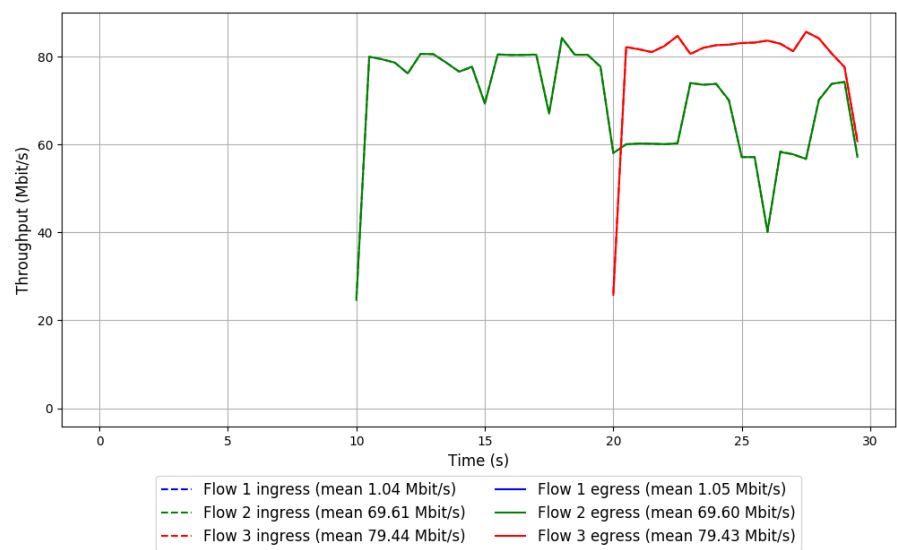
-- Flow 3:

Average throughput: 79.43 Mbit/s

95th percentile per-packet one-way delay: 2.279 ms

Loss rate: 0.04%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2017-09-21 21:45:20

End at: 2017-09-21 21:45:50

Local clock offset: 0.022 ms

Remote clock offset: 0.782 ms

Below is generated by plot.py at 2017-09-22 02:58:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 83.09 Mbit/s

95th percentile per-packet one-way delay: 2.306 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 1.13 Mbit/s

95th percentile per-packet one-way delay: 2.430 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 85.80 Mbit/s

95th percentile per-packet one-way delay: 2.292 ms

Loss rate: 0.02%

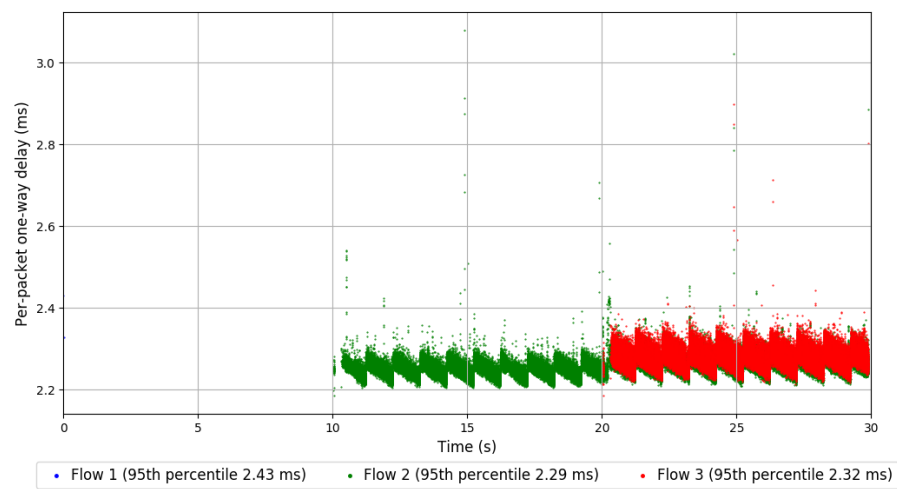
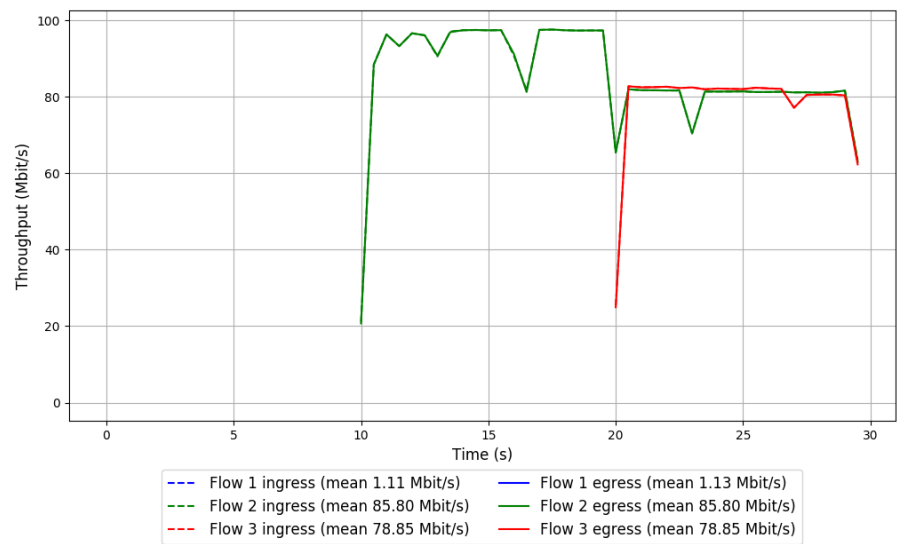
-- Flow 3:

Average throughput: 78.85 Mbit/s

95th percentile per-packet one-way delay: 2.318 ms

Loss rate: 0.05%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2017-09-21 22:04:34

End at: 2017-09-21 22:05:04

Local clock offset: -0.043 ms

Remote clock offset: 0.67 ms

Below is generated by plot.py at 2017-09-22 02:58:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 83.66 Mbit/s

95th percentile per-packet one-way delay: 2.328 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 1.10 Mbit/s

95th percentile per-packet one-way delay: 2.497 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 86.32 Mbit/s

95th percentile per-packet one-way delay: 2.327 ms

Loss rate: 0.03%

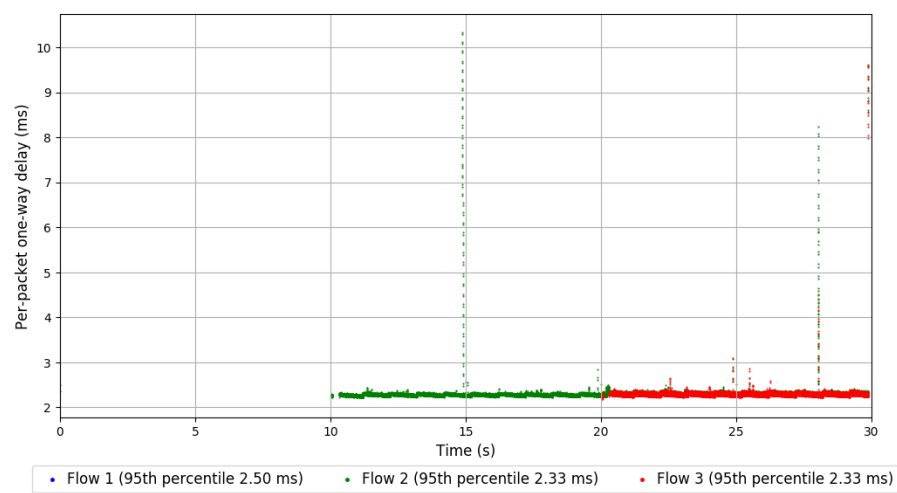
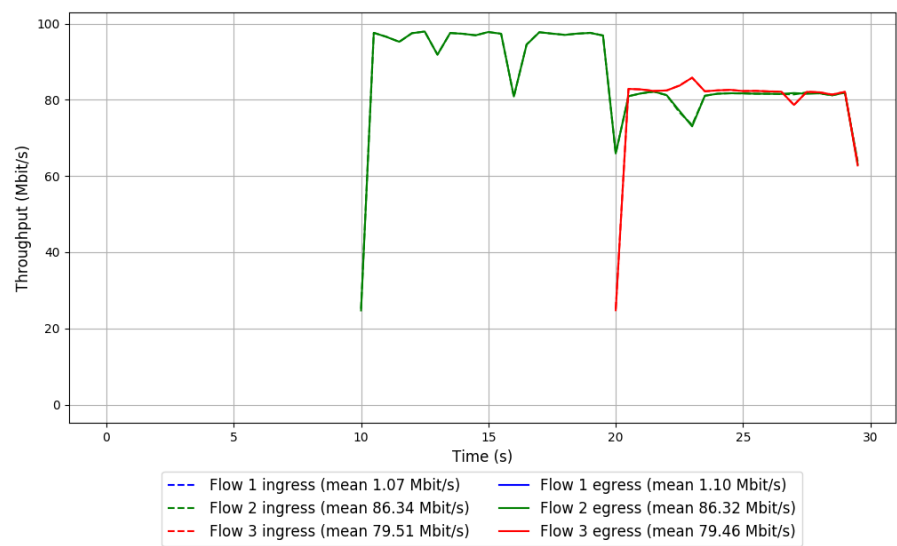
-- Flow 3:

Average throughput: 79.46 Mbit/s

95th percentile per-packet one-way delay: 2.329 ms

Loss rate: 0.06%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2017-09-21 22:23:27

End at: 2017-09-21 22:23:57

Local clock offset: -0.012 ms

Remote clock offset: 0.52 ms

Below is generated by plot.py at 2017-09-22 02:58:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 81.32 Mbit/s

95th percentile per-packet one-way delay: 2.326 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 0.80 Mbit/s

95th percentile per-packet one-way delay: 2.429 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 82.88 Mbit/s

95th percentile per-packet one-way delay: 2.315 ms

Loss rate: 0.02%

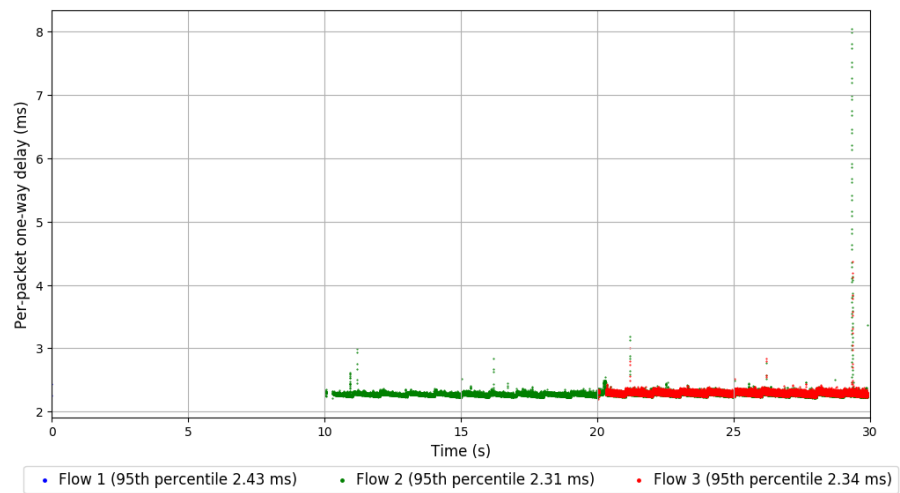
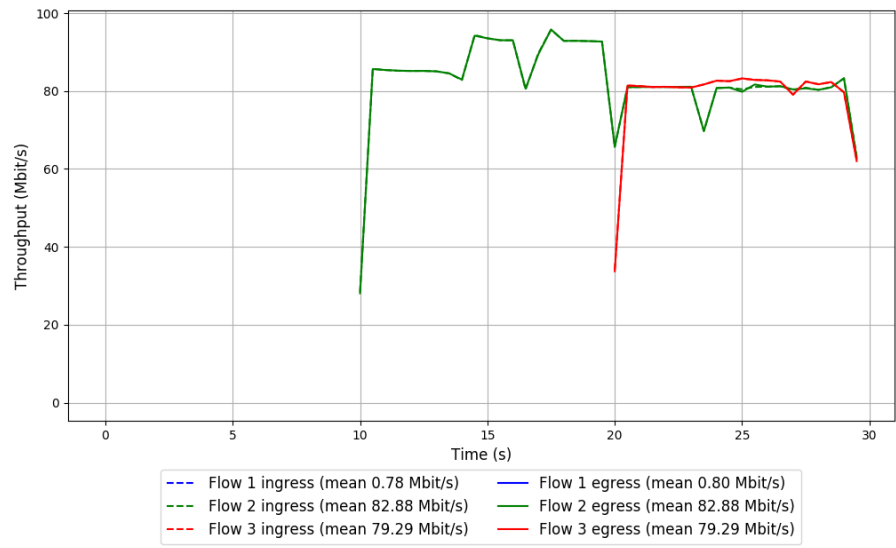
-- Flow 3:

Average throughput: 79.29 Mbit/s

95th percentile per-packet one-way delay: 2.336 ms

Loss rate: 0.05%

Run 10: Report of QUIC Cubic — Data Link

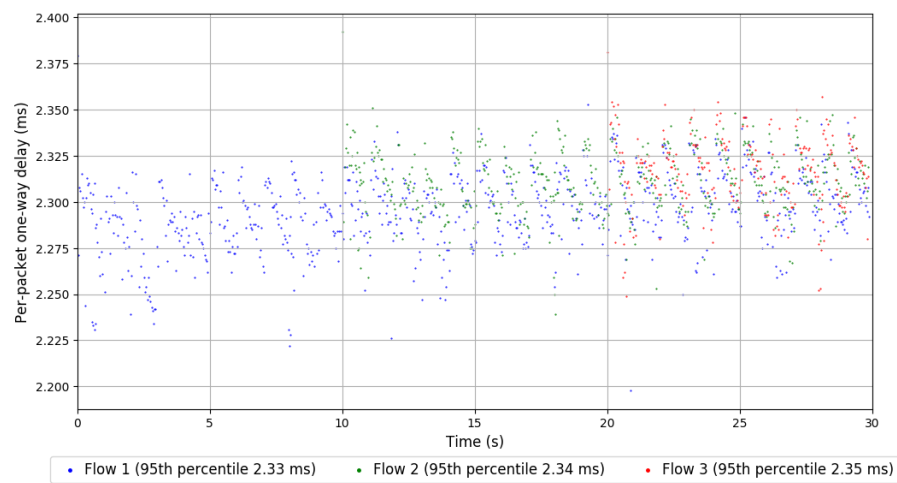
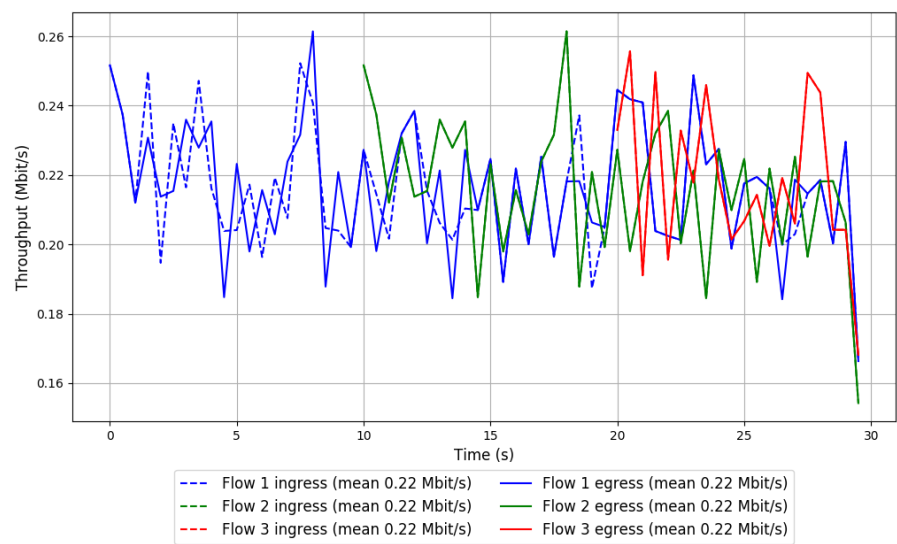


```
Run 1: Statistics of SReAM

Start at: 2017-09-21 19:39:16
End at: 2017-09-21 19:39:46
Local clock offset: 0.016 ms
Remote clock offset: 0.098 ms

# Below is generated by plot.py at 2017-09-22 02:58:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 2.336 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.327 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.338 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.346 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SReAM

Start at: 2017-09-21 19:58:03

End at: 2017-09-21 19:58:33

Local clock offset: -0.023 ms

Remote clock offset: 0.297 ms

Below is generated by plot.py at 2017-09-22 02:58:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 2.277 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.278 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.275 ms

Loss rate: 0.20%

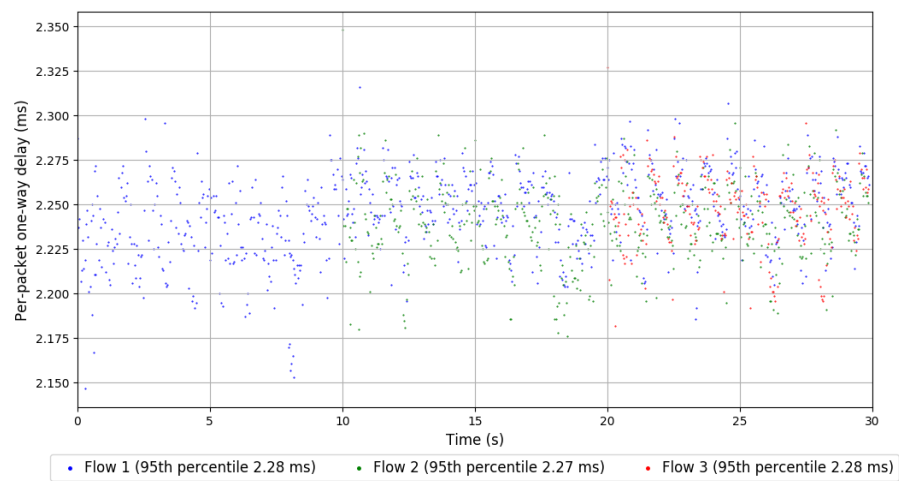
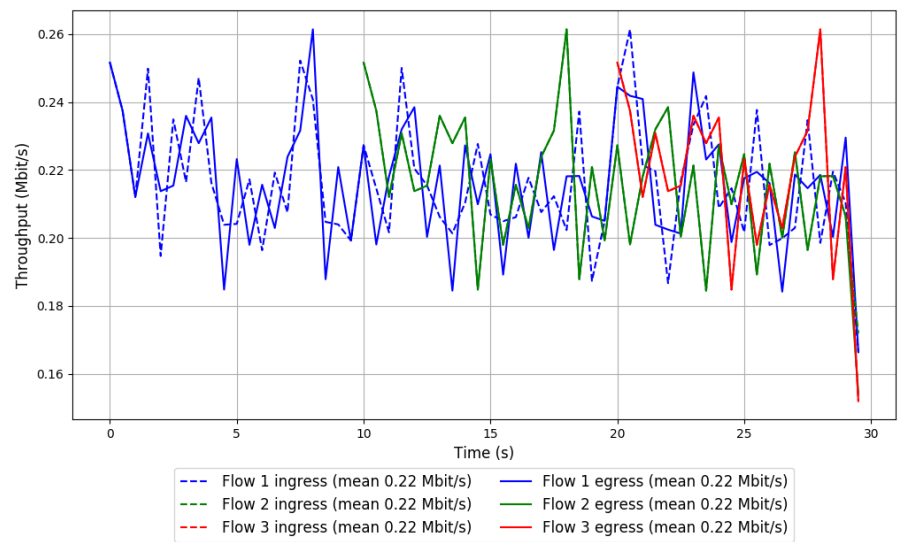
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.277 ms

Loss rate: 0.00%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SReAM

Start at: 2017-09-21 20:16:49

End at: 2017-09-21 20:17:19

Local clock offset: 0.044 ms

Remote clock offset: 0.533 ms

Below is generated by plot.py at 2017-09-22 02:58:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 2.323 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.322 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.326 ms

Loss rate: 0.20%

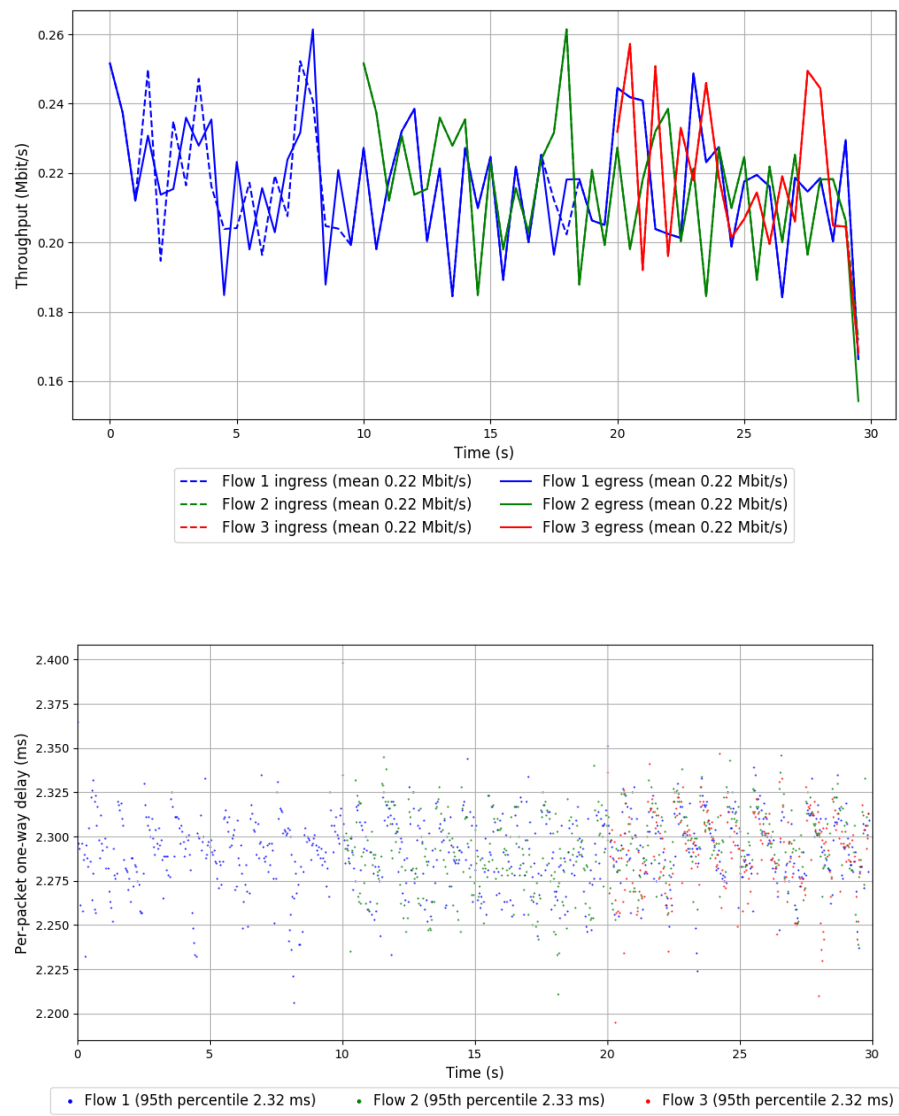
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.321 ms

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SReAM

Start at: 2017-09-21 20:35:48

End at: 2017-09-21 20:36:18

Local clock offset: 0.062 ms

Remote clock offset: 0.67 ms

Below is generated by plot.py at 2017-09-22 02:58:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 2.345 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.348 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.339 ms

Loss rate: 0.20%

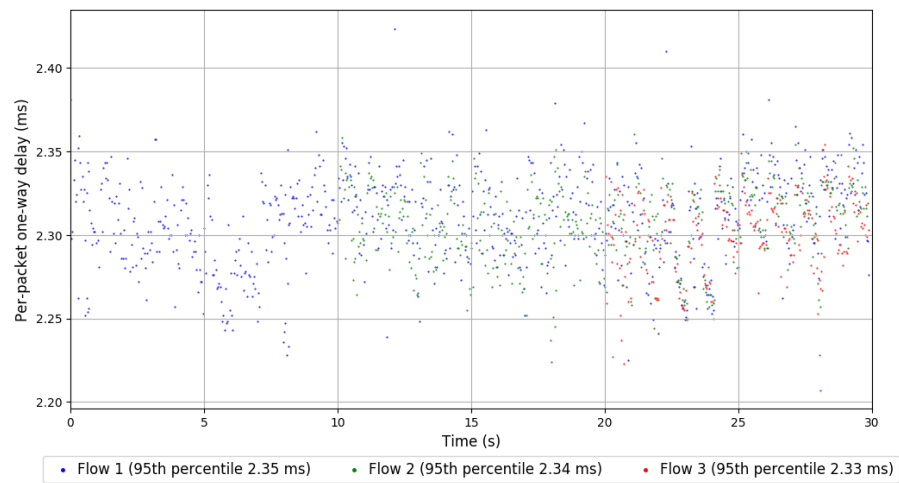
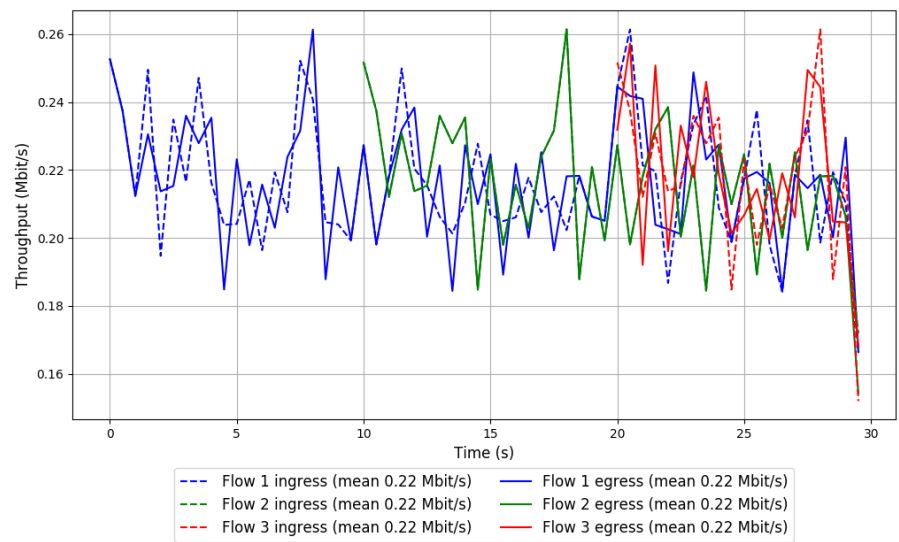
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.332 ms

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link

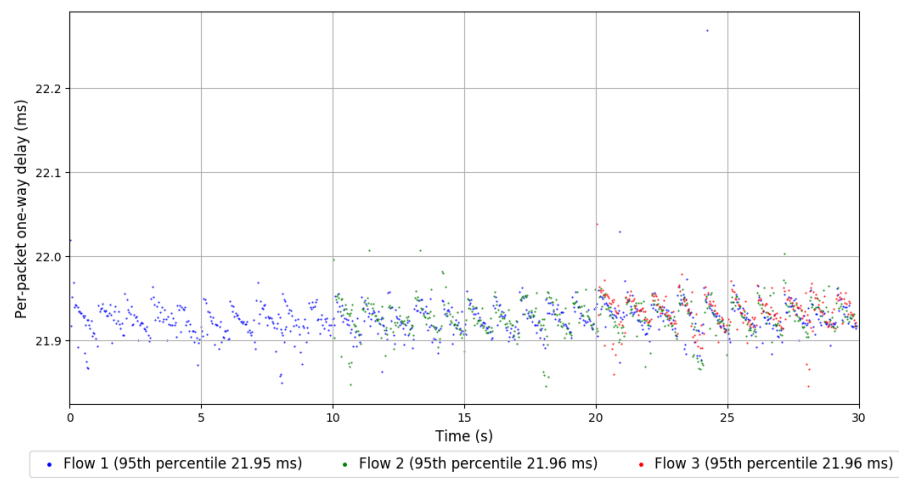
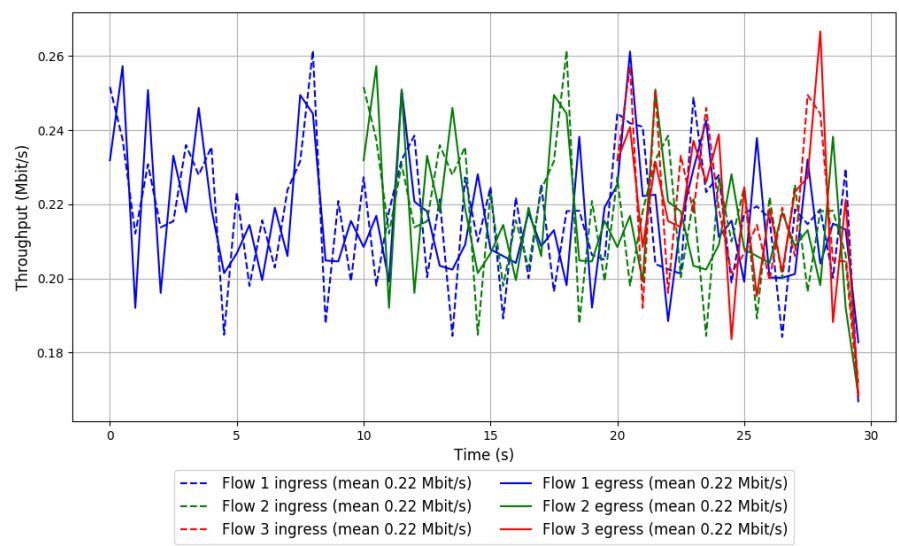


Run 5: Statistics of SReAM

Start at: 2017-09-21 20:54:24
End at: 2017-09-21 20:54:54
Local clock offset: 0.033 ms
Remote clock offset: -18.816 ms

Below is generated by plot.py at 2017-09-22 02:58:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 21.957 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 21.952 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 21.957 ms
Loss rate: 0.20%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 21.961 ms
Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SReAM

Start at: 2017-09-21 21:13:01

End at: 2017-09-21 21:13:31

Local clock offset: 0.044 ms

Remote clock offset: 0.877 ms

Below is generated by plot.py at 2017-09-22 02:58:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 2.347 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.349 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.345 ms

Loss rate: 0.20%

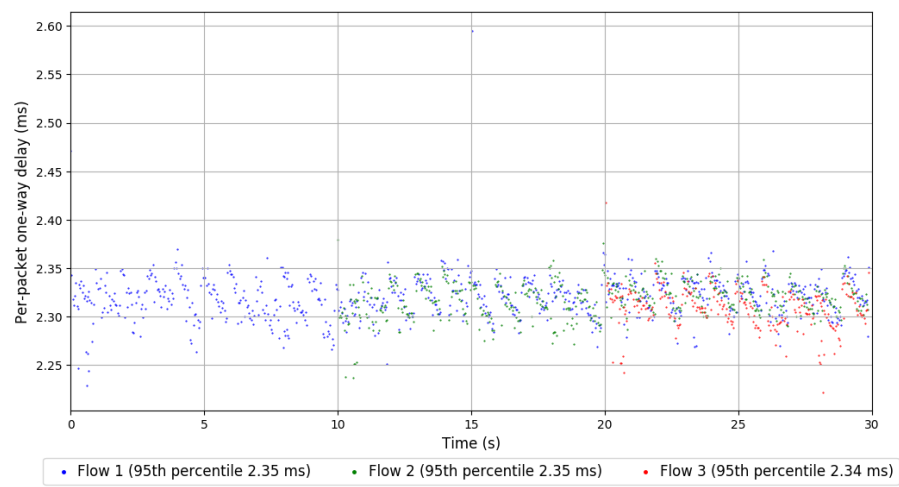
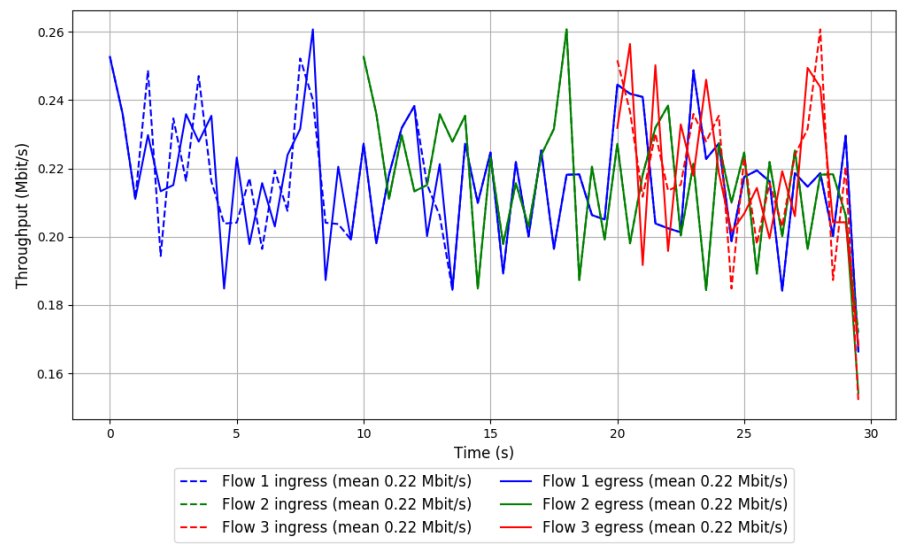
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.337 ms

Loss rate: 0.00%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SReAM

Start at: 2017-09-21 21:32:04

End at: 2017-09-21 21:32:34

Local clock offset: 0.006 ms

Remote clock offset: 0.826 ms

Below is generated by plot.py at 2017-09-22 02:58:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 2.302 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.298 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.303 ms

Loss rate: 0.20%

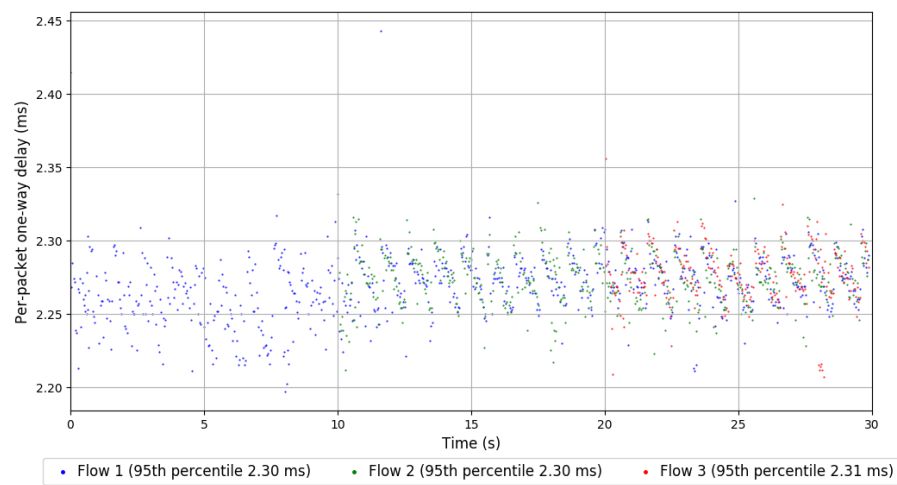
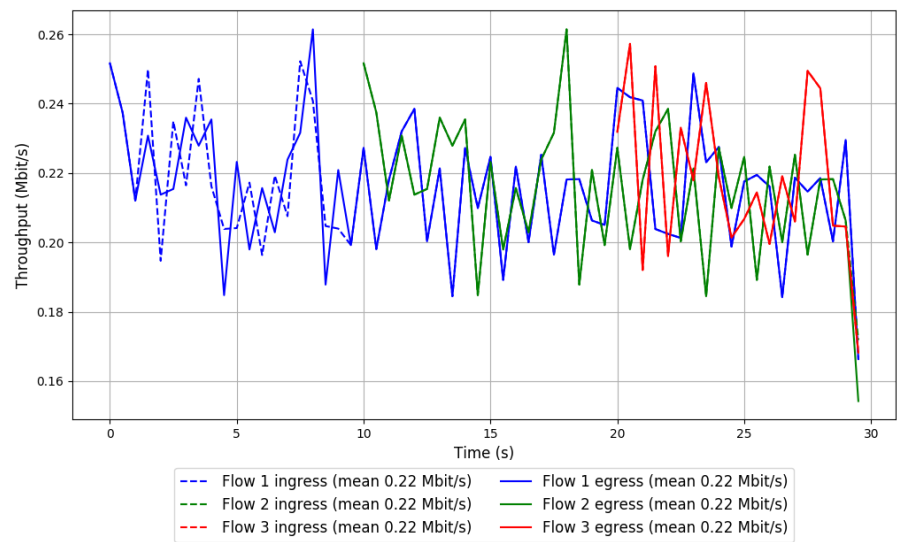
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.305 ms

Loss rate: 0.00%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SReAM

Start at: 2017-09-21 21:51:15

End at: 2017-09-21 21:51:45

Local clock offset: -0.03 ms

Remote clock offset: 0.731 ms

Below is generated by plot.py at 2017-09-22 02:58:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 2.336 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.329 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.340 ms

Loss rate: 0.20%

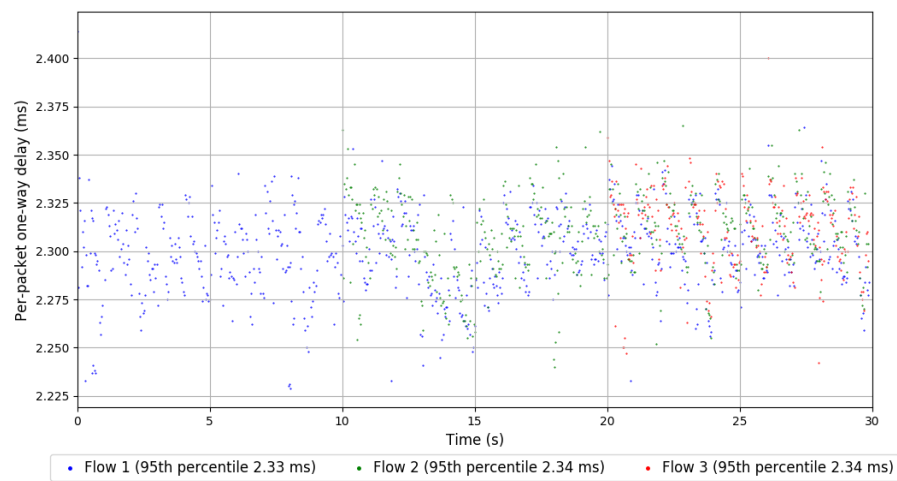
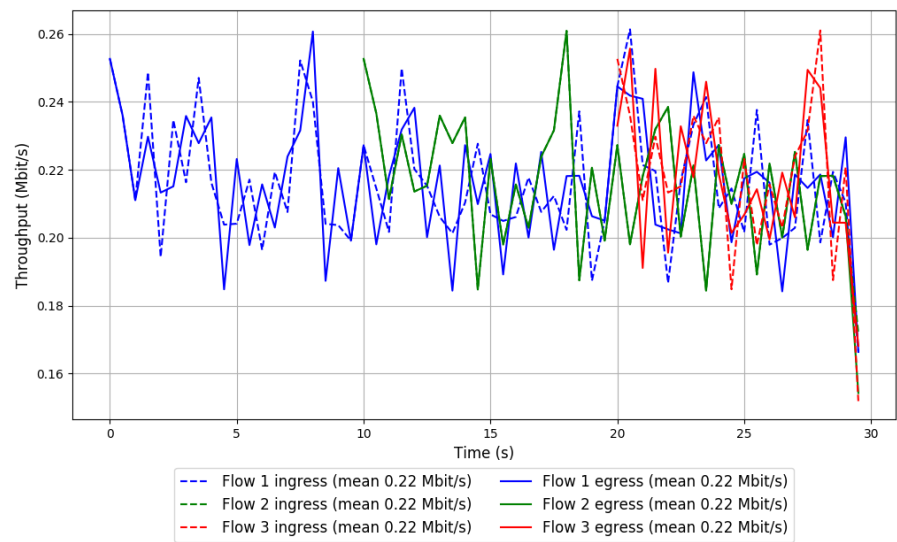
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.338 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SReAM

Start at: 2017-09-21 22:10:09

End at: 2017-09-21 22:10:39

Local clock offset: -0.036 ms

Remote clock offset: 0.669 ms

Below is generated by plot.py at 2017-09-22 02:58:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 2.341 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.342 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.342 ms

Loss rate: 0.20%

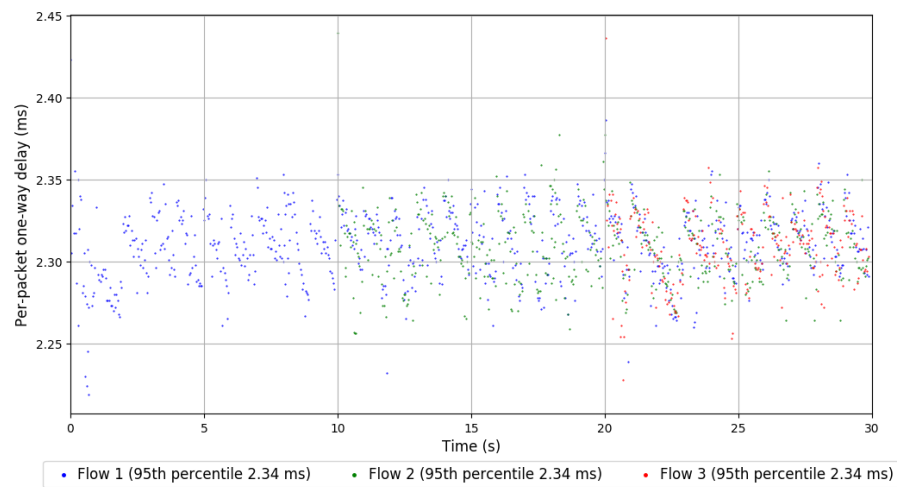
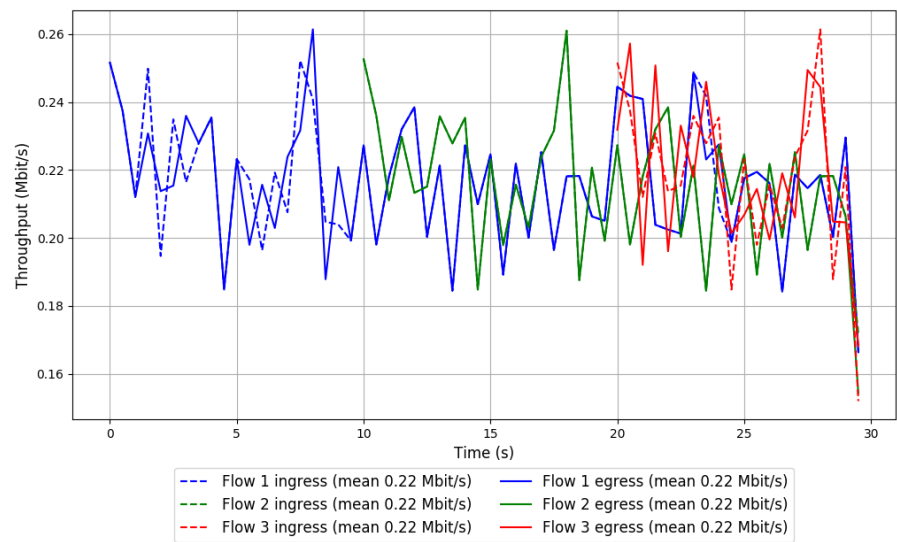
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.341 ms

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2017-09-21 22:29:02

End at: 2017-09-21 22:29:32

Local clock offset: 0.006 ms

Remote clock offset: 0.496 ms

Below is generated by plot.py at 2017-09-22 02:58:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 2.323 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.332 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.301 ms

Loss rate: 0.00%

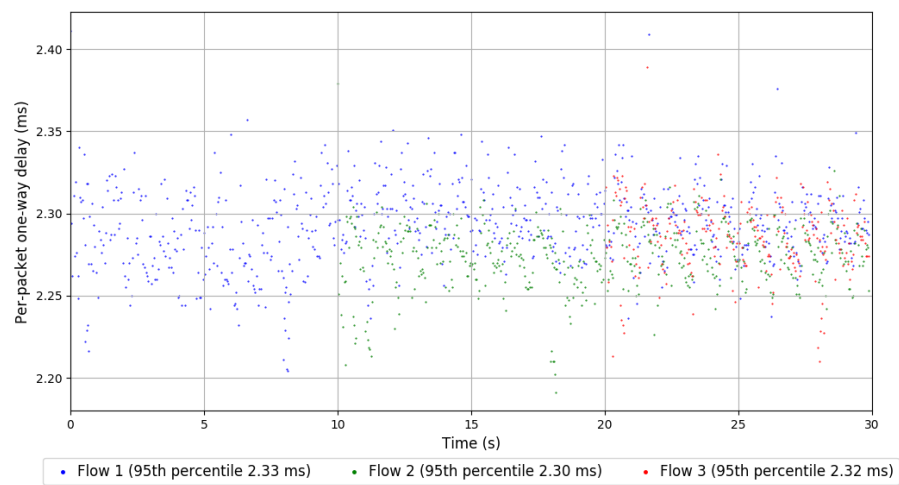
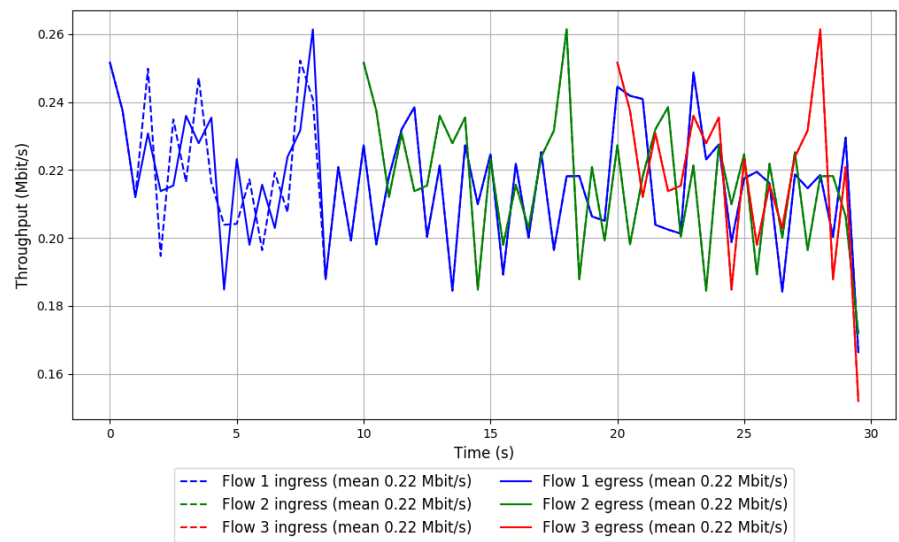
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.316 ms

Loss rate: 0.00%

Run 10: Report of SReAM — Data Link

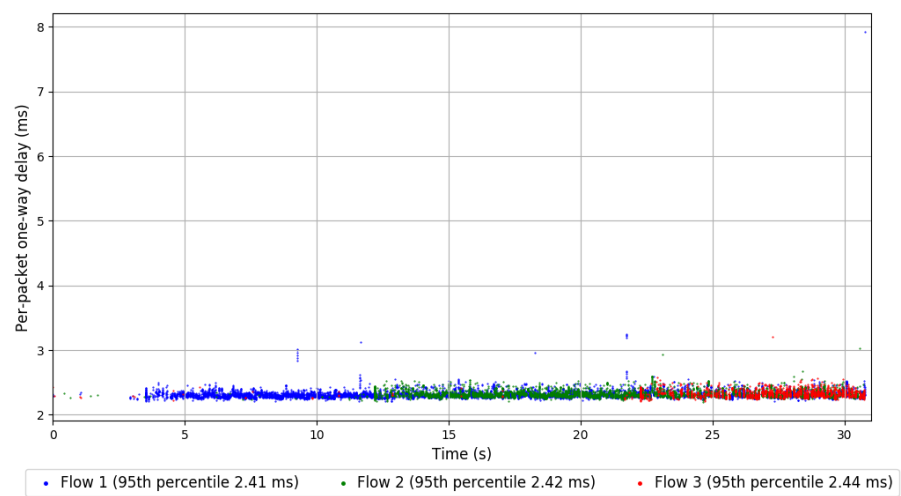
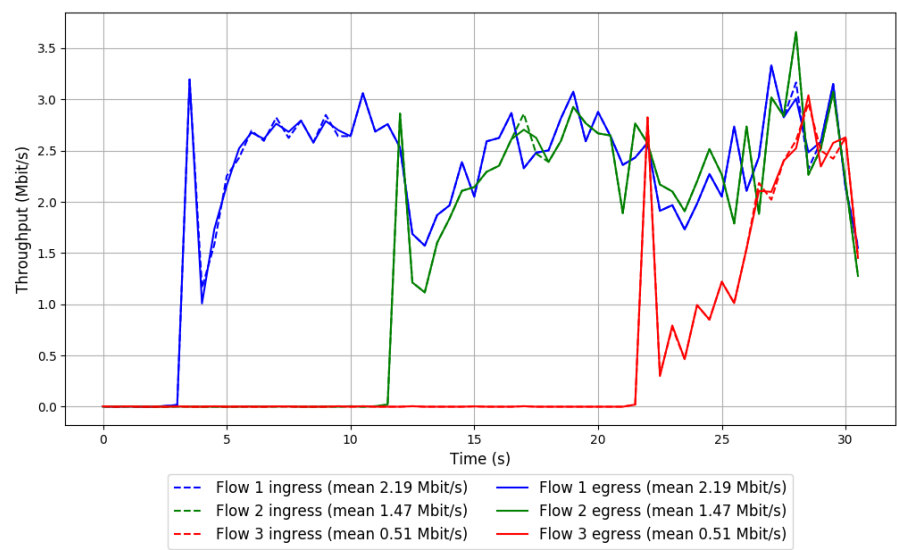


Run 1: Statistics of WebRTC media

Start at: 2017-09-21 19:30:14
End at: 2017-09-21 19:30:44
Local clock offset: -0.0 ms
Remote clock offset: -0.008 ms

Below is generated by plot.py at 2017-09-22 02:58:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 4.14 Mbit/s
95th percentile per-packet one-way delay: 2.418 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 2.19 Mbit/s
95th percentile per-packet one-way delay: 2.408 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 1.47 Mbit/s
95th percentile per-packet one-way delay: 2.424 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.51 Mbit/s
95th percentile per-packet one-way delay: 2.435 ms
Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2017-09-21 19:49:09

End at: 2017-09-21 19:49:39

Local clock offset: -0.025 ms

Remote clock offset: 0.208 ms

Below is generated by plot.py at 2017-09-22 02:58:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.39 Mbit/s

95th percentile per-packet one-way delay: 2.339 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.35 Mbit/s

95th percentile per-packet one-way delay: 2.327 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.46 Mbit/s

95th percentile per-packet one-way delay: 2.355 ms

Loss rate: 0.00%

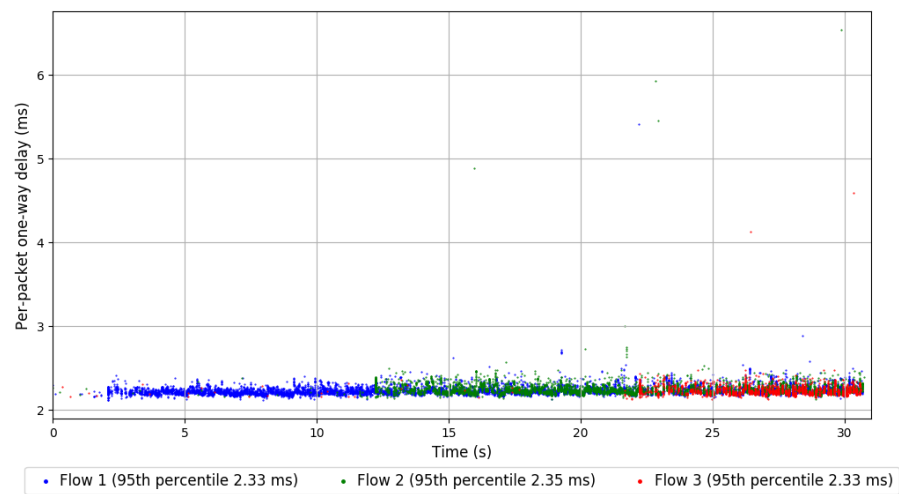
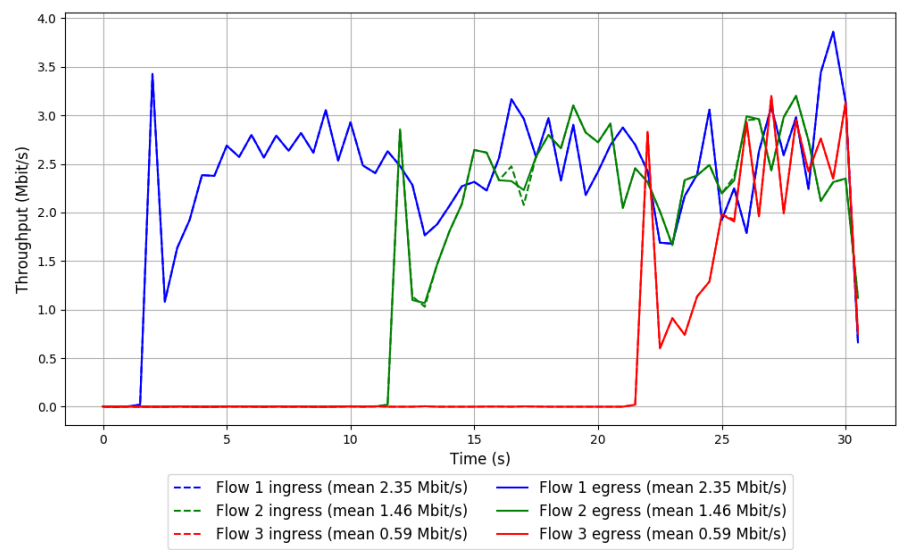
-- Flow 3:

Average throughput: 0.59 Mbit/s

95th percentile per-packet one-way delay: 2.326 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2017-09-21 20:07:45

End at: 2017-09-21 20:08:15

Local clock offset: 0.052 ms

Remote clock offset: 0.401 ms

Below is generated by plot.py at 2017-09-22 02:58:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.38 Mbit/s

95th percentile per-packet one-way delay: 2.407 ms

Loss rate: 0.11%

-- Flow 1:

Average throughput: 2.36 Mbit/s

95th percentile per-packet one-way delay: 2.408 ms

Loss rate: 0.12%

-- Flow 2:

Average throughput: 1.45 Mbit/s

95th percentile per-packet one-way delay: 2.403 ms

Loss rate: 0.00%

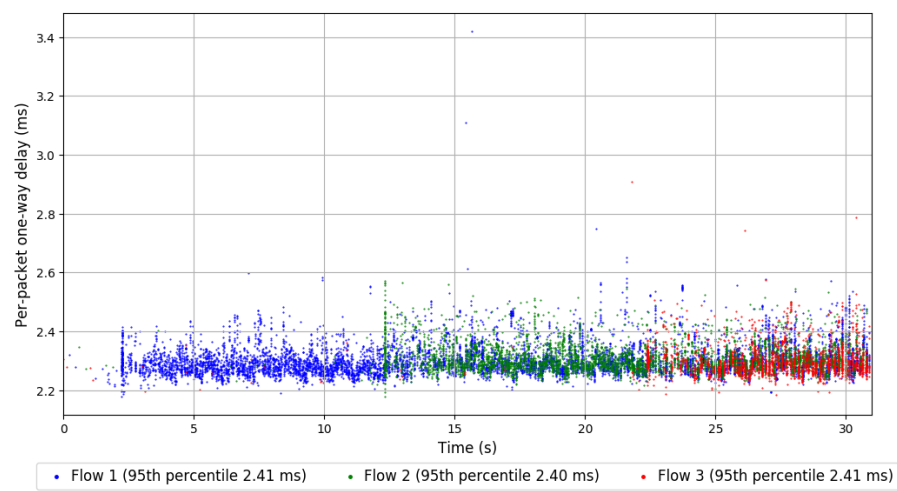
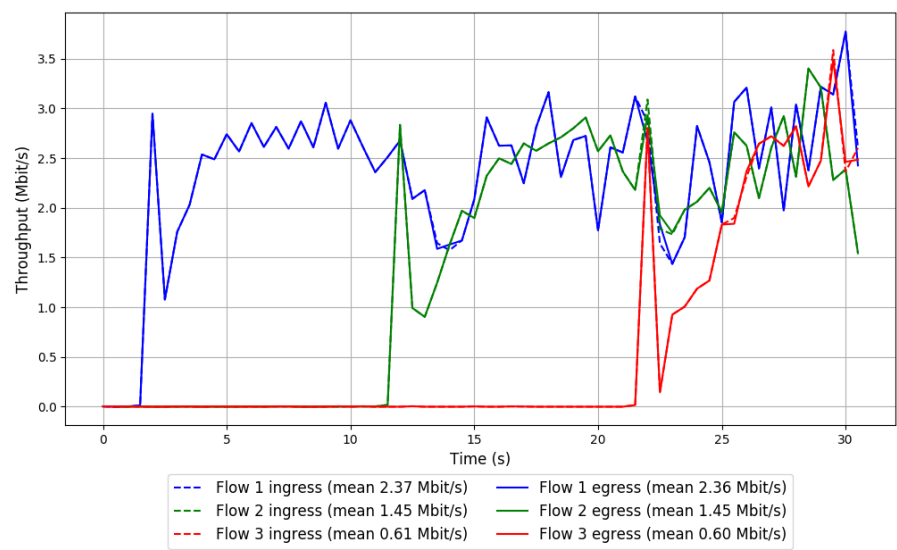
-- Flow 3:

Average throughput: 0.60 Mbit/s

95th percentile per-packet one-way delay: 2.407 ms

Loss rate: 0.32%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2017-09-21 20:26:42

End at: 2017-09-21 20:27:12

Local clock offset: 0.027 ms

Remote clock offset: 0.601 ms

Below is generated by plot.py at 2017-09-22 02:58:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.33 Mbit/s

95th percentile per-packet one-way delay: 2.359 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.31 Mbit/s

95th percentile per-packet one-way delay: 2.355 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.48 Mbit/s

95th percentile per-packet one-way delay: 2.356 ms

Loss rate: 0.00%

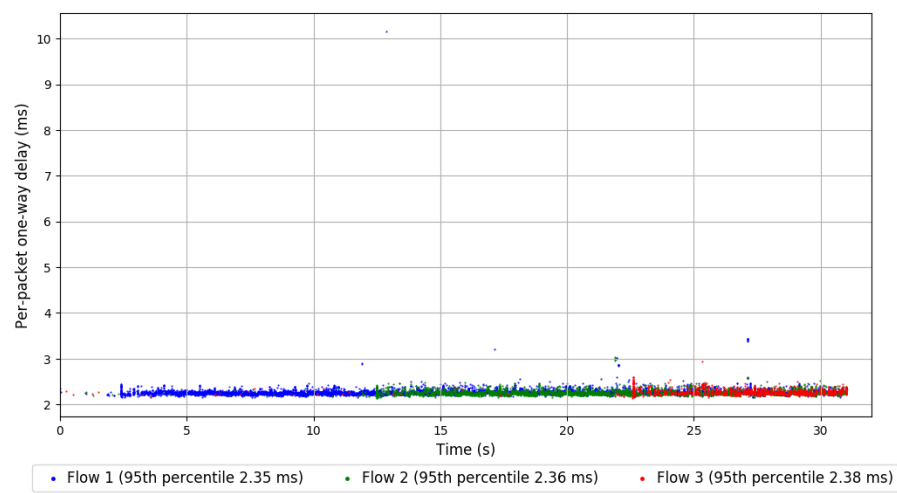
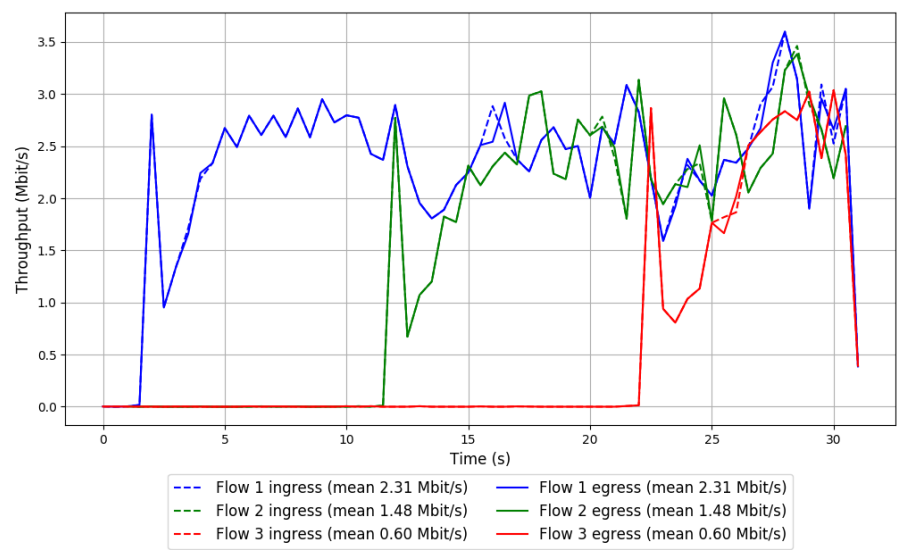
-- Flow 3:

Average throughput: 0.60 Mbit/s

95th percentile per-packet one-way delay: 2.375 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

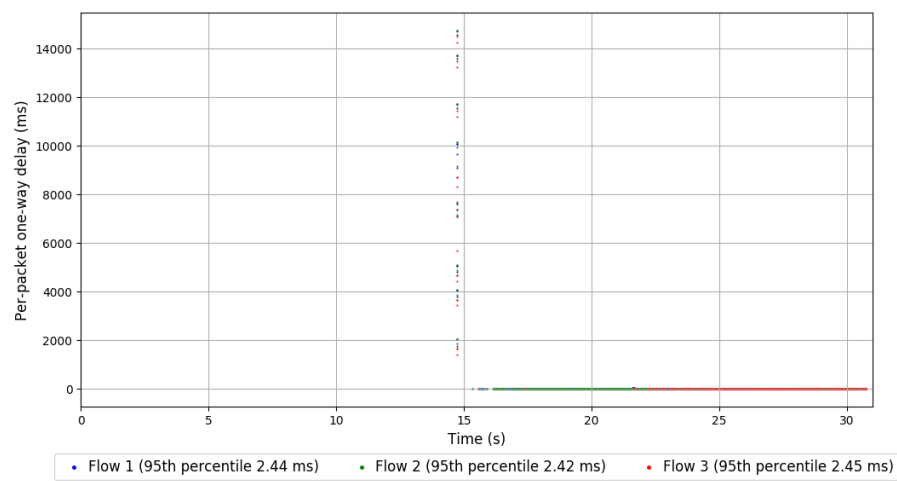
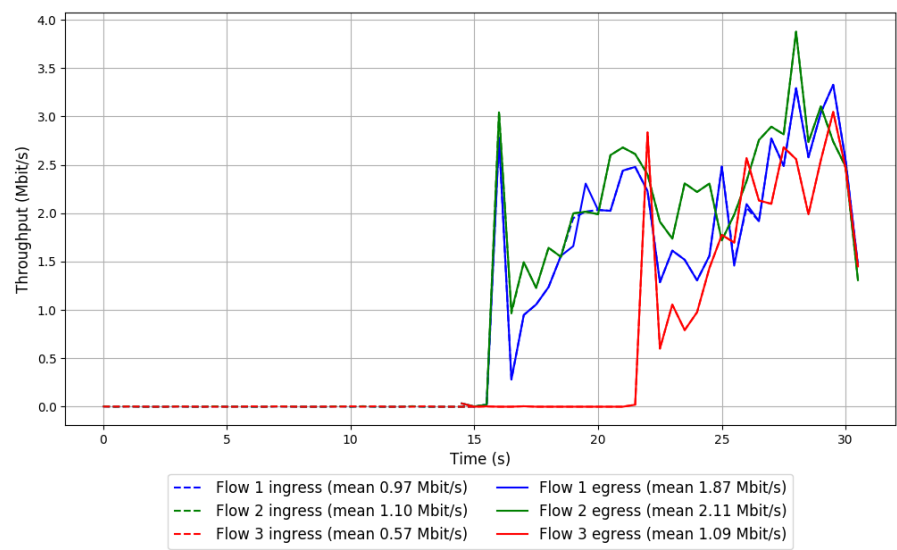
Start at: 2017-09-21 20:45:19

End at: 2017-09-21 20:45:49

Local clock offset: -0.022 ms

Remote clock offset: 0.658 ms

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2017-09-21 21:04:06

End at: 2017-09-21 21:04:36

Local clock offset: -0.038 ms

Remote clock offset: 0.88 ms

Below is generated by plot.py at 2017-09-22 02:58:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.33 Mbit/s

95th percentile per-packet one-way delay: 2.345 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 2.31 Mbit/s

95th percentile per-packet one-way delay: 2.331 ms

Loss rate: 0.09%

-- Flow 2:

Average throughput: 1.46 Mbit/s

95th percentile per-packet one-way delay: 2.351 ms

Loss rate: 0.00%

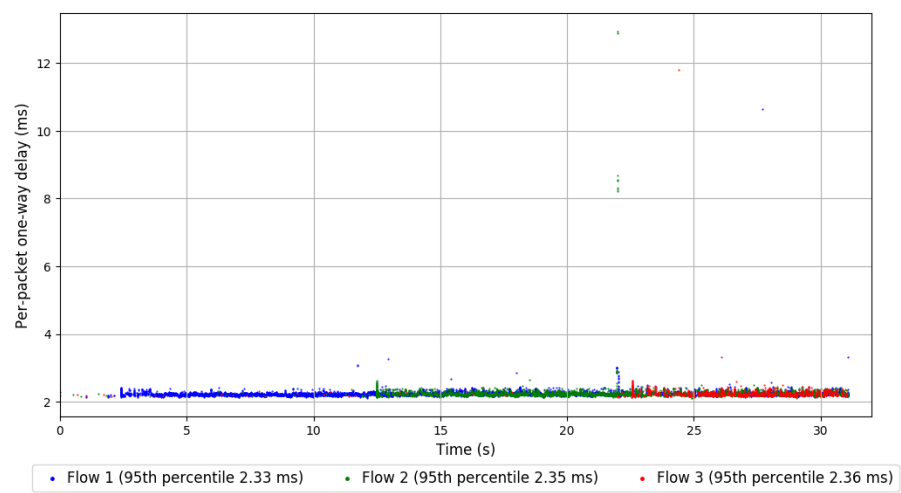
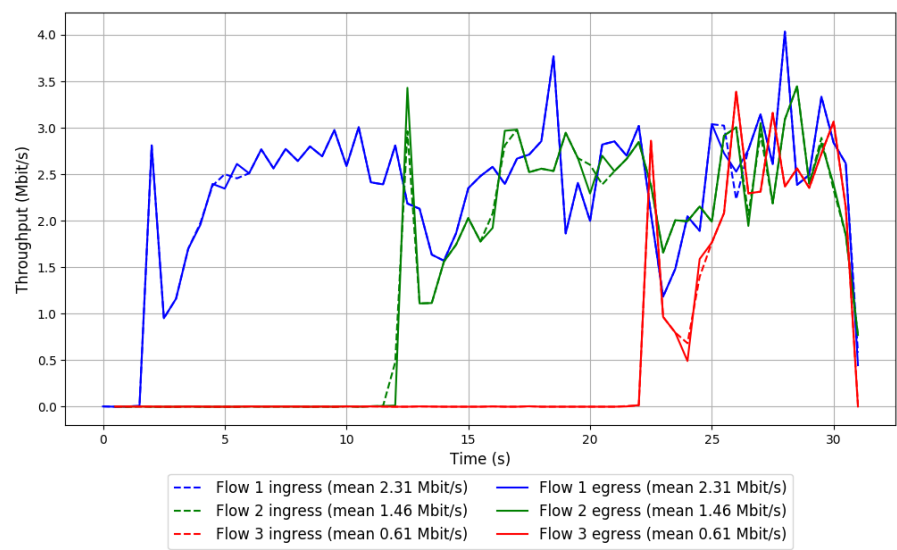
-- Flow 3:

Average throughput: 0.61 Mbit/s

95th percentile per-packet one-way delay: 2.358 ms

Loss rate: 0.05%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2017-09-21 21:23:01

End at: 2017-09-21 21:23:31

Local clock offset: 0.009 ms

Remote clock offset: 0.831 ms

Below is generated by plot.py at 2017-09-22 02:58:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.27 Mbit/s

95th percentile per-packet one-way delay: 2.397 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.36 Mbit/s

95th percentile per-packet one-way delay: 2.389 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.39 Mbit/s

95th percentile per-packet one-way delay: 2.408 ms

Loss rate: 0.00%

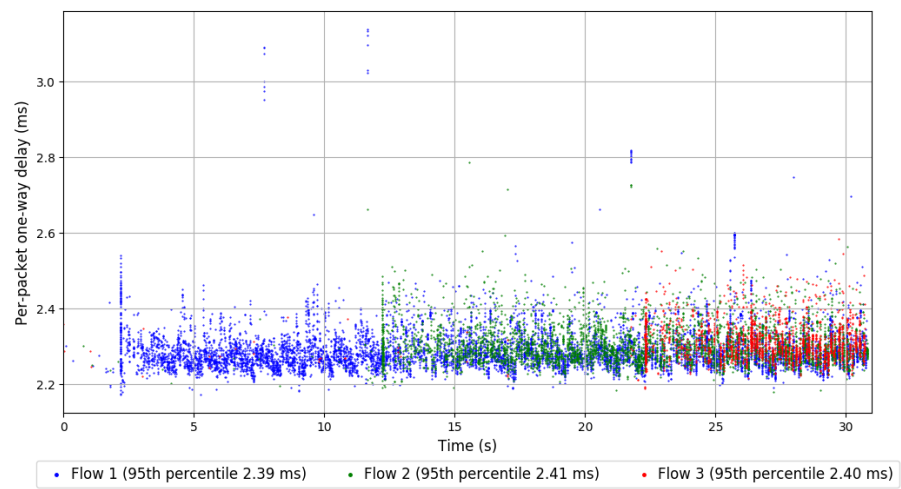
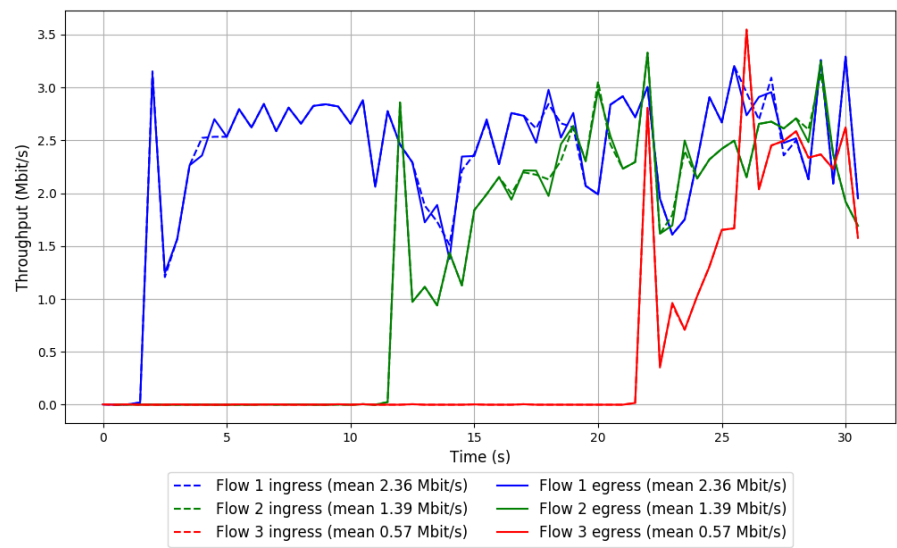
-- Flow 3:

Average throughput: 0.57 Mbit/s

95th percentile per-packet one-way delay: 2.405 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2017-09-21 21:41:51

End at: 2017-09-21 21:42:21

Local clock offset: 0.027 ms

Remote clock offset: 0.796 ms

Below is generated by plot.py at 2017-09-22 02:58:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.23 Mbit/s

95th percentile per-packet one-way delay: 2.399 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.34 Mbit/s

95th percentile per-packet one-way delay: 2.384 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.42 Mbit/s

95th percentile per-packet one-way delay: 2.402 ms

Loss rate: 0.00%

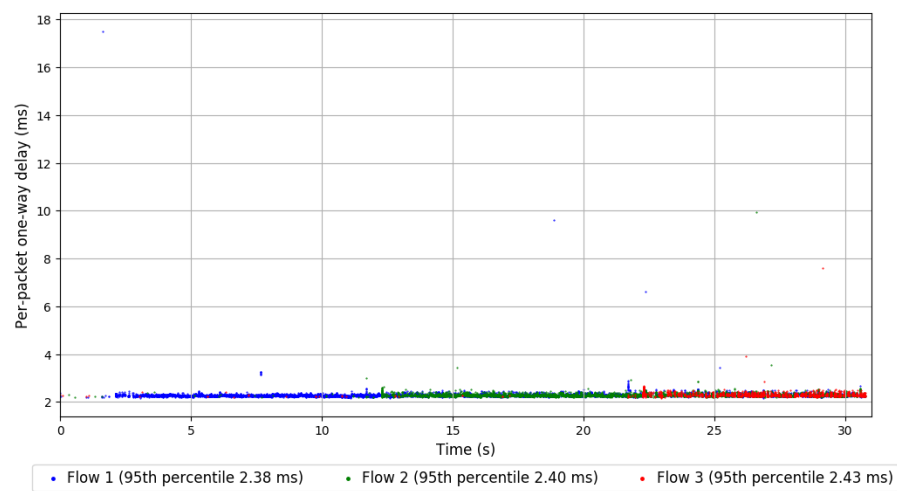
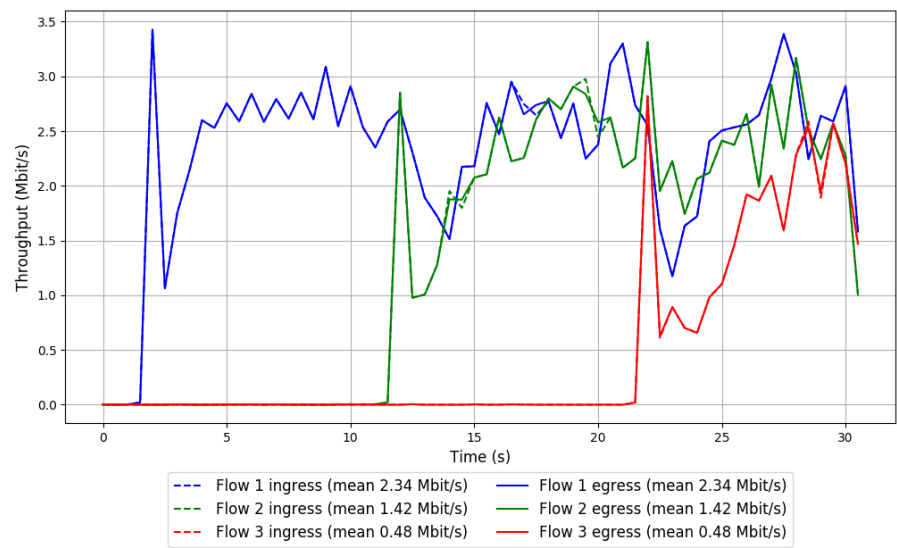
-- Flow 3:

Average throughput: 0.48 Mbit/s

95th percentile per-packet one-way delay: 2.433 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2017-09-21 22:01:05

End at: 2017-09-21 22:01:35

Local clock offset: 0.039 ms

Remote clock offset: 0.813 ms

Below is generated by plot.py at 2017-09-22 02:58:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.35 Mbit/s

95th percentile per-packet one-way delay: 2.375 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 2.36 Mbit/s

95th percentile per-packet one-way delay: 2.353 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 1.42 Mbit/s

95th percentile per-packet one-way delay: 2.405 ms

Loss rate: 0.00%

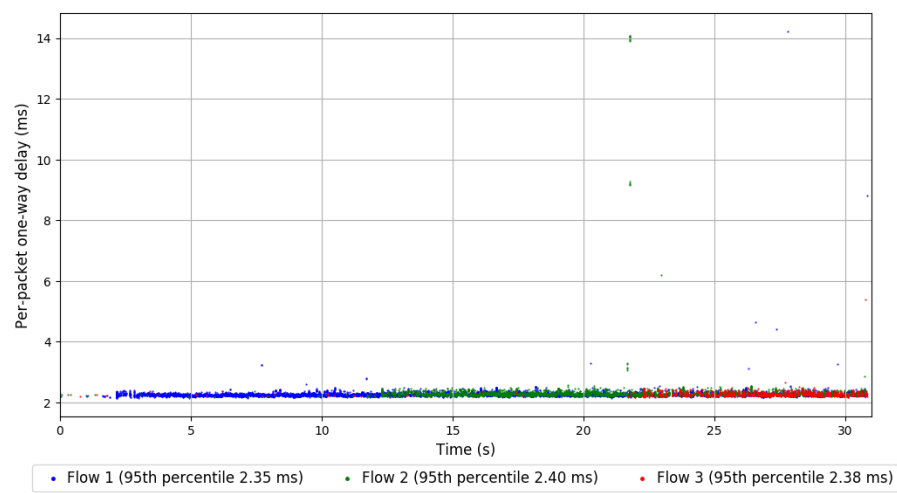
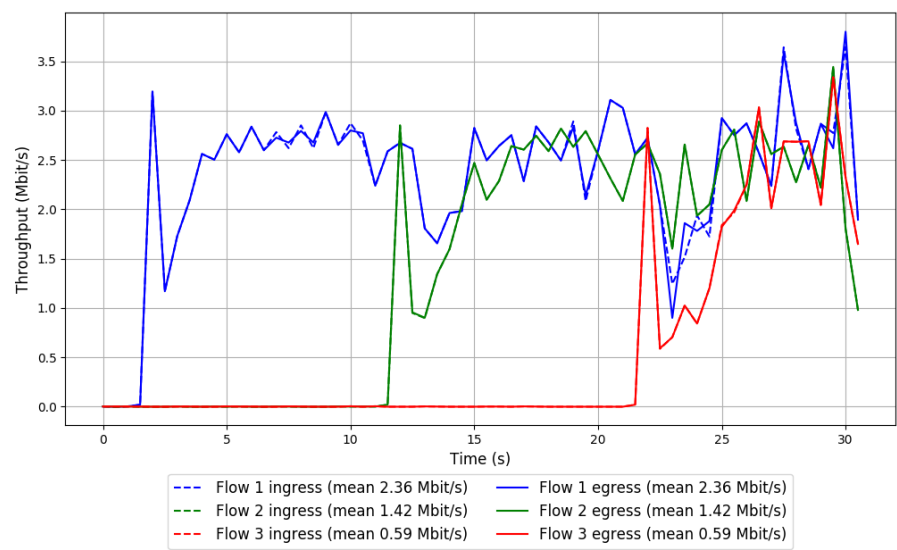
-- Flow 3:

Average throughput: 0.59 Mbit/s

95th percentile per-packet one-way delay: 2.378 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2017-09-21 22:19:58

End at: 2017-09-21 22:20:28

Local clock offset: 0.166 ms

Remote clock offset: 0.741 ms

Below is generated by plot.py at 2017-09-22 02:58:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.37 Mbit/s

95th percentile per-packet one-way delay: 2.428 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 2.36 Mbit/s

95th percentile per-packet one-way delay: 2.423 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 1.44 Mbit/s

95th percentile per-packet one-way delay: 2.429 ms

Loss rate: 0.00%

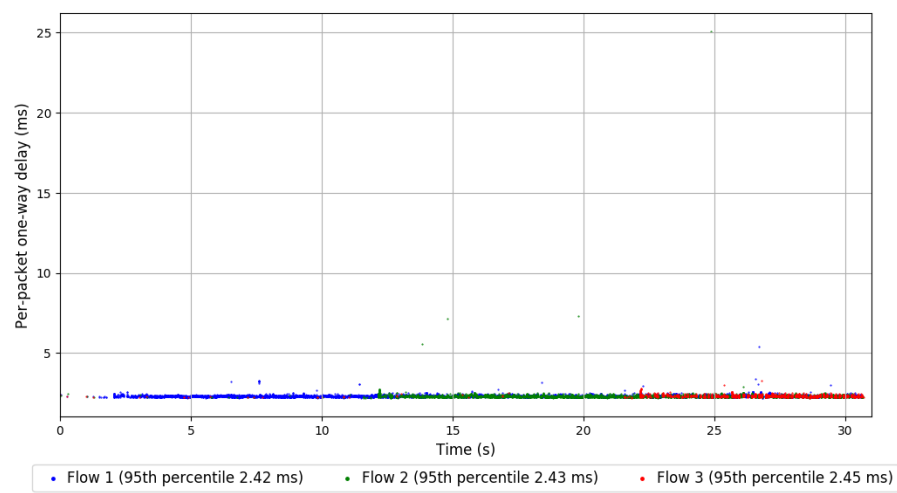
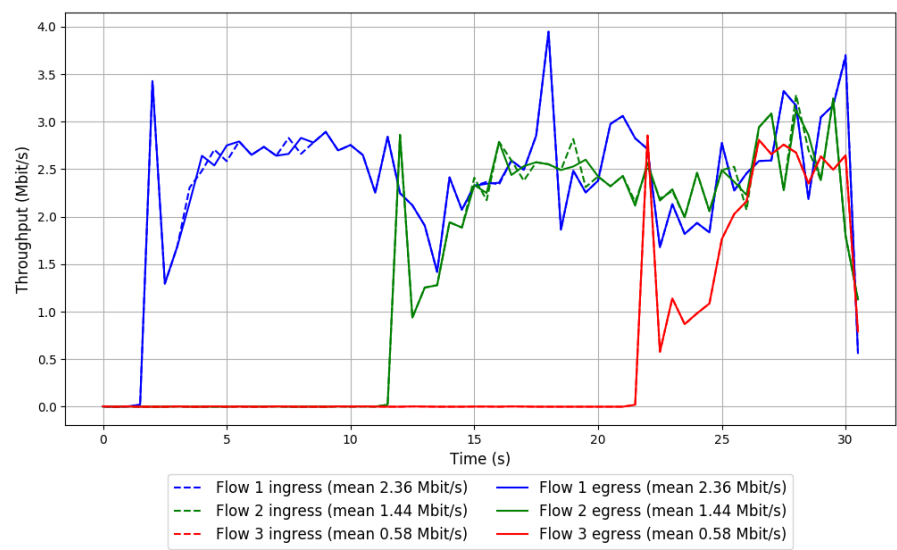
-- Flow 3:

Average throughput: 0.58 Mbit/s

95th percentile per-packet one-way delay: 2.447 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2017-09-21 19:31:18

End at: 2017-09-21 19:31:48

Local clock offset: 0.015 ms

Remote clock offset: -0.06 ms

Below is generated by plot.py at 2017-09-22 02:58:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 99.73 Mbit/s

95th percentile per-packet one-way delay: 2.729 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 50.09 Mbit/s

95th percentile per-packet one-way delay: 2.744 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 49.98 Mbit/s

95th percentile per-packet one-way delay: 2.673 ms

Loss rate: 0.00%

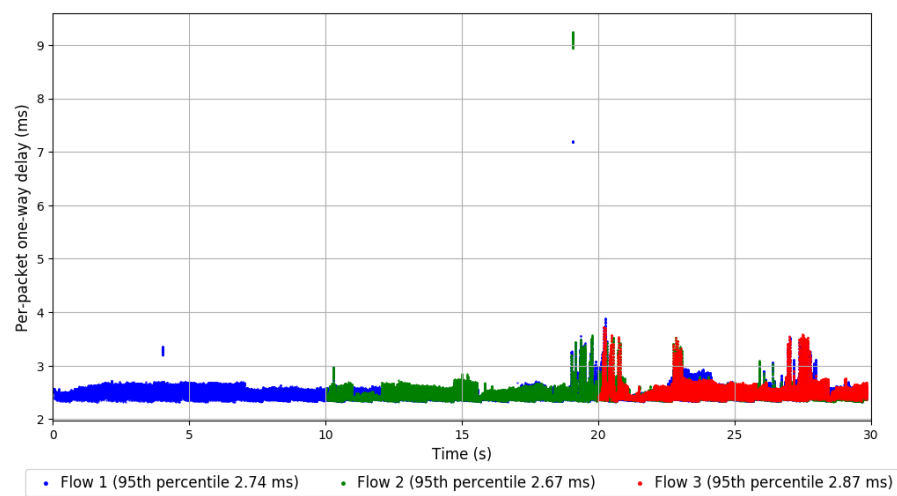
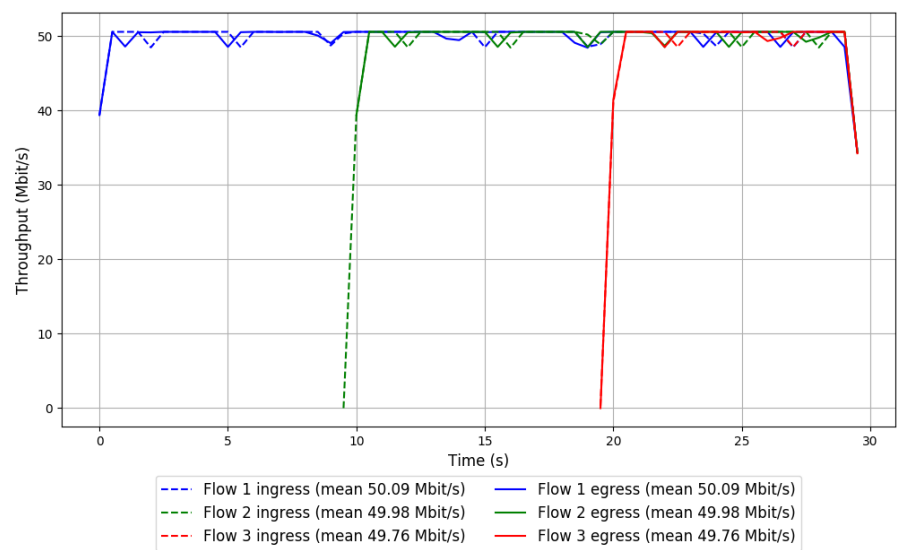
-- Flow 3:

Average throughput: 49.76 Mbit/s

95th percentile per-packet one-way delay: 2.872 ms

Loss rate: 0.00%

Run 1: Report of Sprout — Data Link

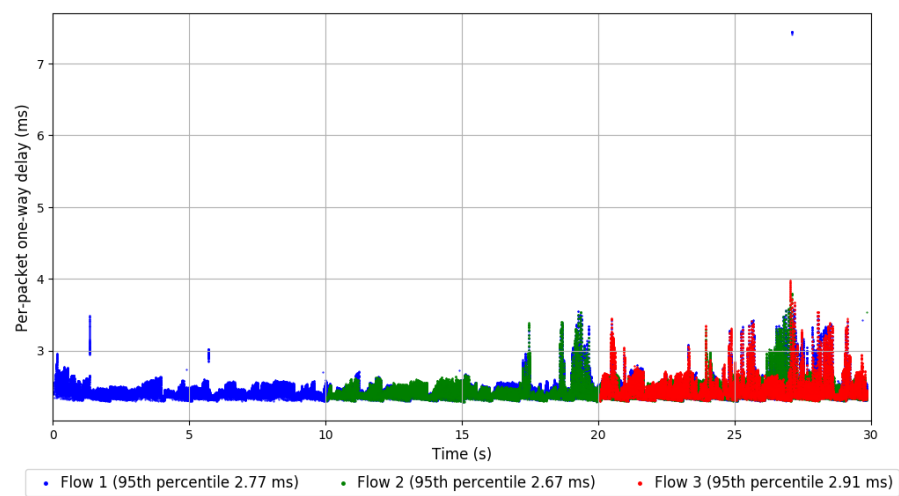
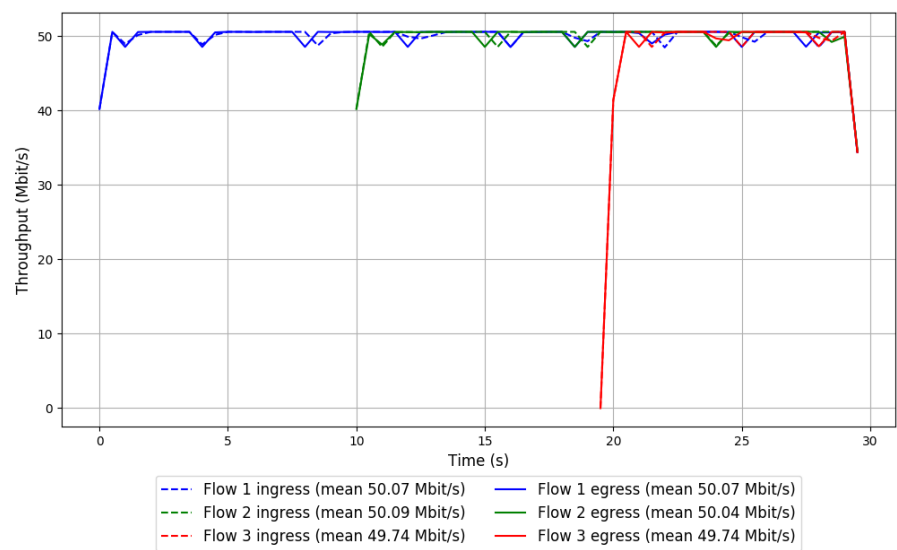


Run 2: Statistics of Sprout

Start at: 2017-09-21 19:50:13
End at: 2017-09-21 19:50:43
Local clock offset: 0.025 ms
Remote clock offset: 0.151 ms

Below is generated by plot.py at 2017-09-22 02:58:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 99.74 Mbit/s
95th percentile per-packet one-way delay: 2.779 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 50.07 Mbit/s
95th percentile per-packet one-way delay: 2.772 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 50.04 Mbit/s
95th percentile per-packet one-way delay: 2.675 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 49.74 Mbit/s
95th percentile per-packet one-way delay: 2.911 ms
Loss rate: 0.00%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2017-09-21 20:08:49

End at: 2017-09-21 20:09:19

Local clock offset: 0.06 ms

Remote clock offset: 0.42 ms

Below is generated by plot.py at 2017-09-22 02:58:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 77.13 Mbit/s

95th percentile per-packet one-way delay: 2.539 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 50.10 Mbit/s

95th percentile per-packet one-way delay: 2.516 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 15.94 Mbit/s

95th percentile per-packet one-way delay: 2.613 ms

Loss rate: 0.00%

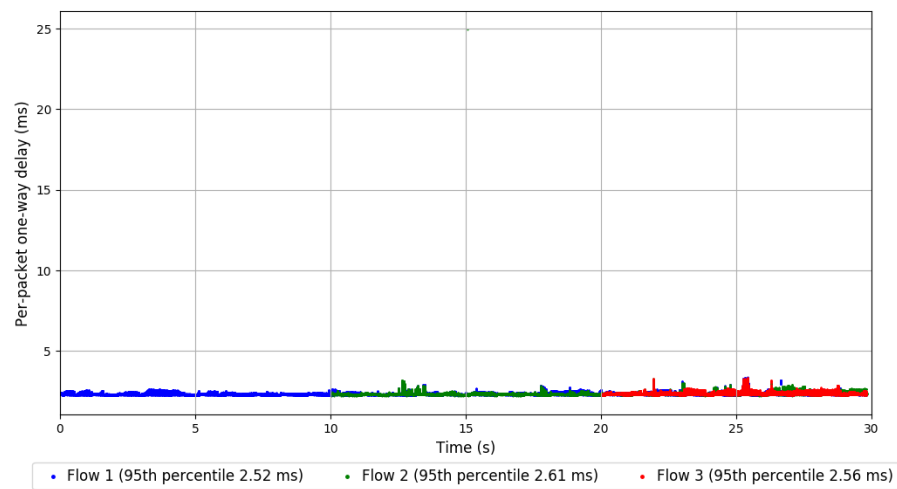
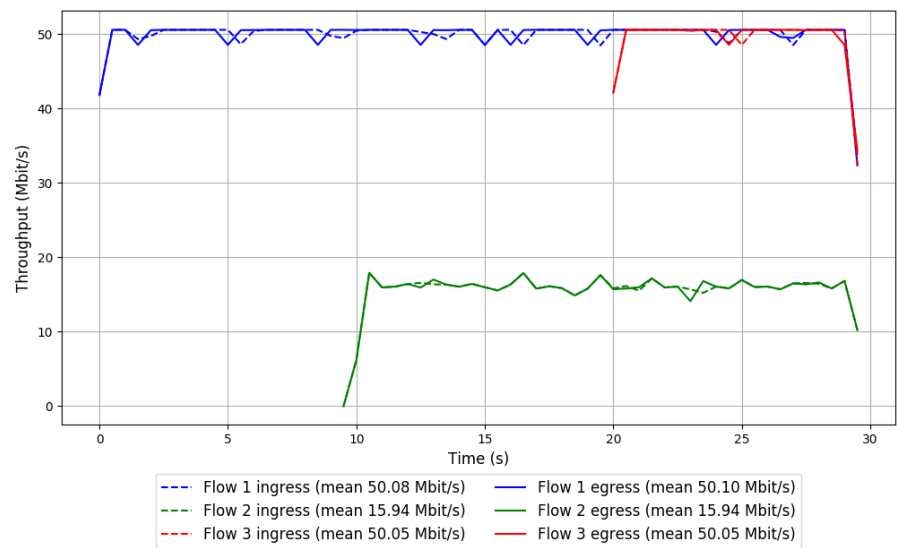
-- Flow 3:

Average throughput: 50.05 Mbit/s

95th percentile per-packet one-way delay: 2.564 ms

Loss rate: 0.00%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2017-09-21 20:27:46

End at: 2017-09-21 20:28:16

Local clock offset: 0.059 ms

Remote clock offset: 0.597 ms

Below is generated by plot.py at 2017-09-22 02:58:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 99.92 Mbit/s

95th percentile per-packet one-way delay: 2.750 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 50.12 Mbit/s

95th percentile per-packet one-way delay: 2.656 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 50.10 Mbit/s

95th percentile per-packet one-way delay: 2.835 ms

Loss rate: 0.00%

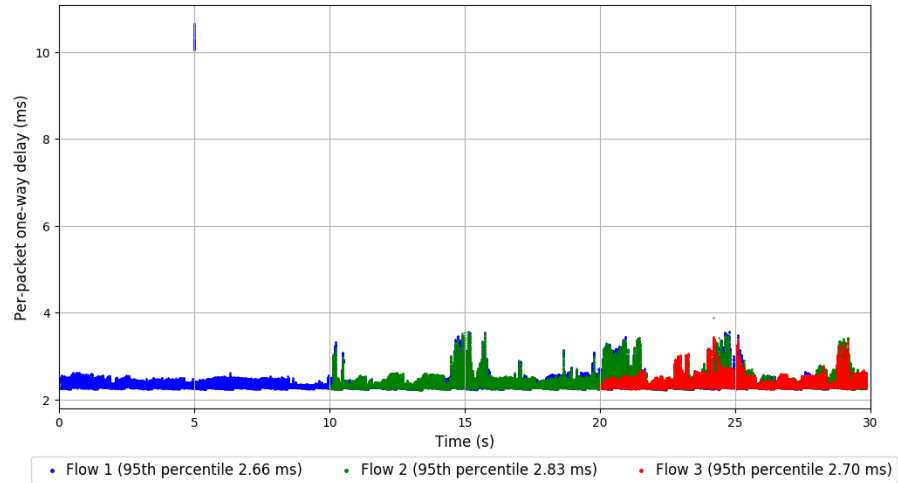
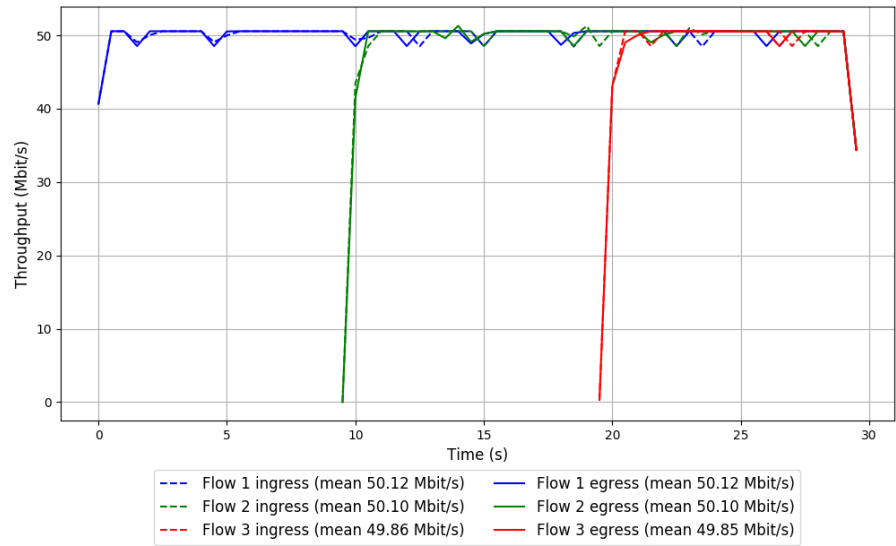
-- Flow 3:

Average throughput: 49.85 Mbit/s

95th percentile per-packet one-way delay: 2.704 ms

Loss rate: 0.00%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2017-09-21 20:46:23

End at: 2017-09-21 20:46:53

Local clock offset: 0.035 ms

Remote clock offset: 0.729 ms

Below is generated by plot.py at 2017-09-22 02:58:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 99.83 Mbit/s

95th percentile per-packet one-way delay: 2.889 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 50.15 Mbit/s

95th percentile per-packet one-way delay: 2.774 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 50.06 Mbit/s

95th percentile per-packet one-way delay: 2.804 ms

Loss rate: 0.00%

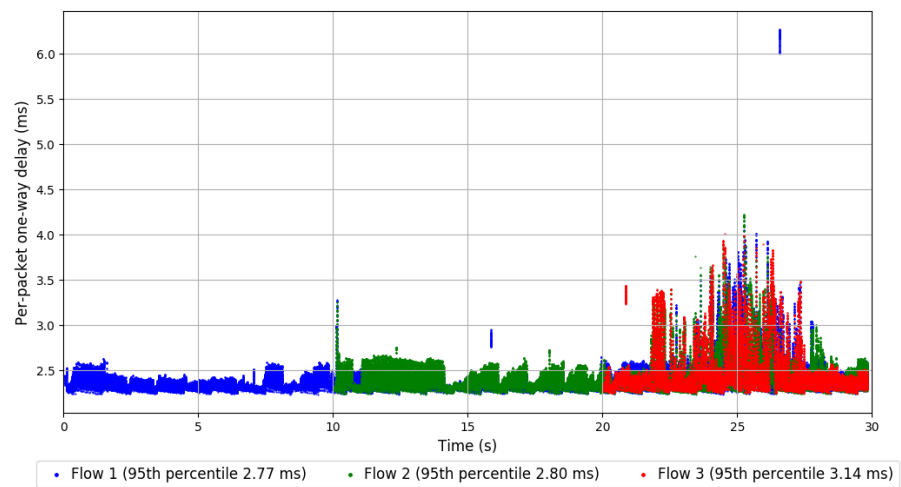
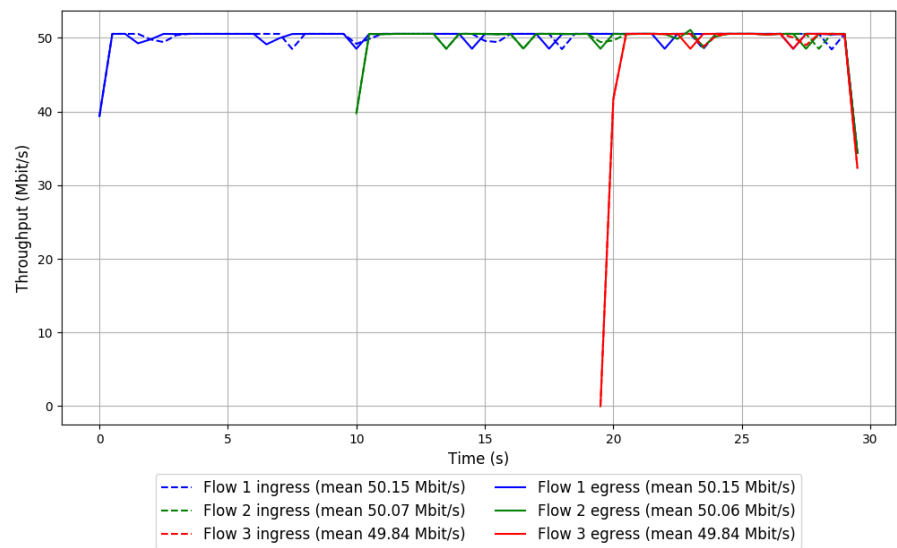
-- Flow 3:

Average throughput: 49.84 Mbit/s

95th percentile per-packet one-way delay: 3.143 ms

Loss rate: 0.00%

Run 5: Report of Sprout — Data Link

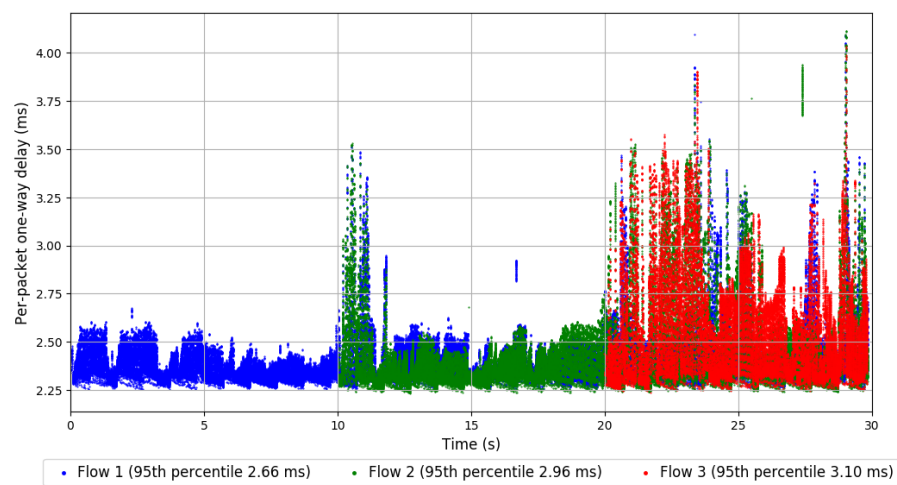
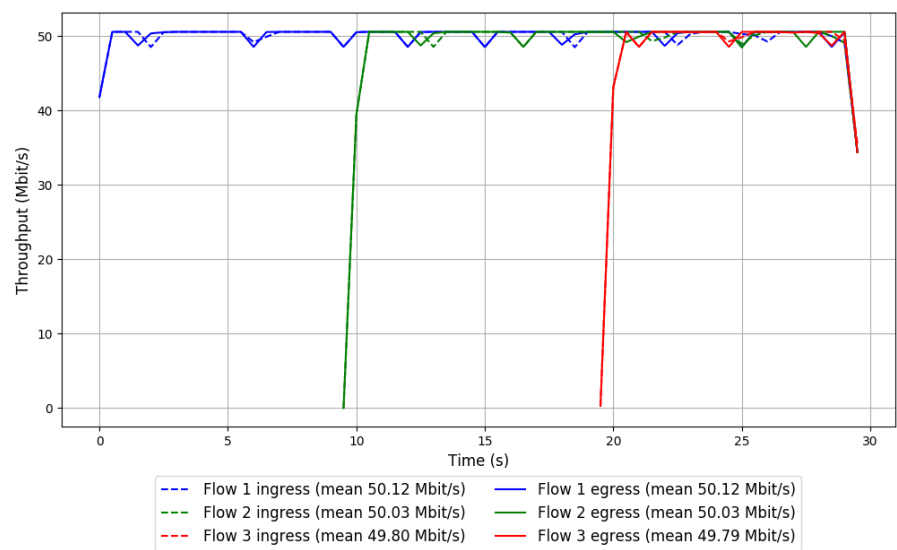


Run 6: Statistics of Sprout

Start at: 2017-09-21 21:05:10
End at: 2017-09-21 21:05:40
Local clock offset: 0.041 ms
Remote clock offset: 0.891 ms

Below is generated by plot.py at 2017-09-22 02:58:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 99.83 Mbit/s
95th percentile per-packet one-way delay: 2.900 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 50.12 Mbit/s
95th percentile per-packet one-way delay: 2.661 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 50.03 Mbit/s
95th percentile per-packet one-way delay: 2.963 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 49.79 Mbit/s
95th percentile per-packet one-way delay: 3.096 ms
Loss rate: 0.21%

Run 6: Report of Sprout — Data Link

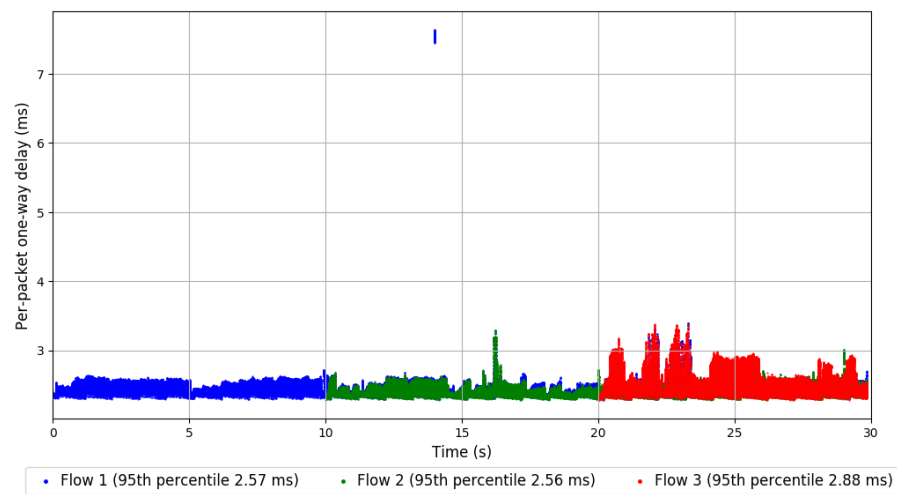
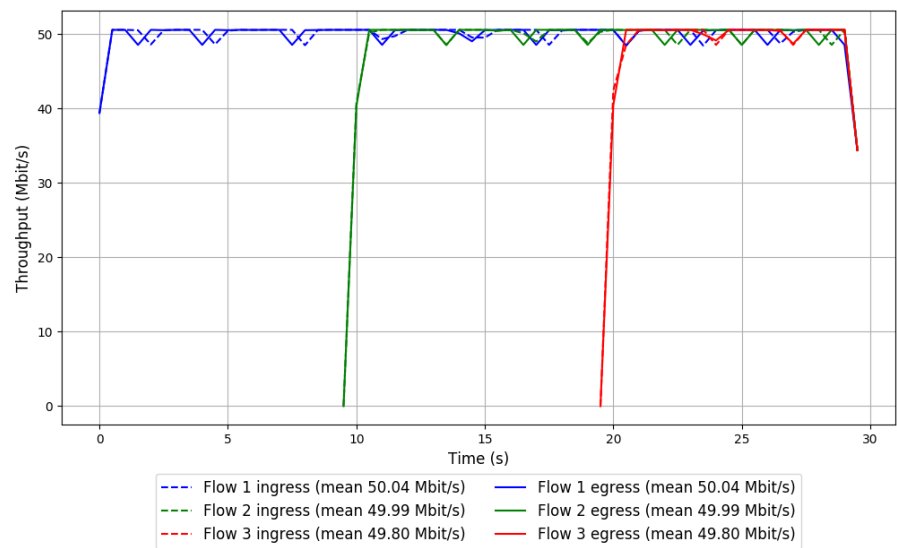


Run 7: Statistics of Sprout

Start at: 2017-09-21 21:24:05
End at: 2017-09-21 21:24:35
Local clock offset: 0.024 ms
Remote clock offset: 0.79 ms

Below is generated by plot.py at 2017-09-22 02:58:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 99.69 Mbit/s
95th percentile per-packet one-way delay: 2.658 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 50.04 Mbit/s
95th percentile per-packet one-way delay: 2.570 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 49.99 Mbit/s
95th percentile per-packet one-way delay: 2.565 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 49.80 Mbit/s
95th percentile per-packet one-way delay: 2.881 ms
Loss rate: 0.00%

Run 7: Report of Sprout — Data Link

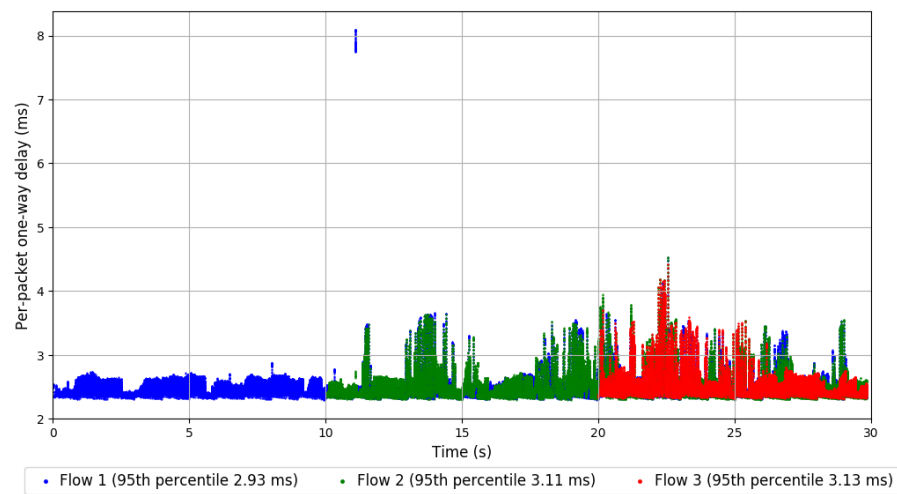
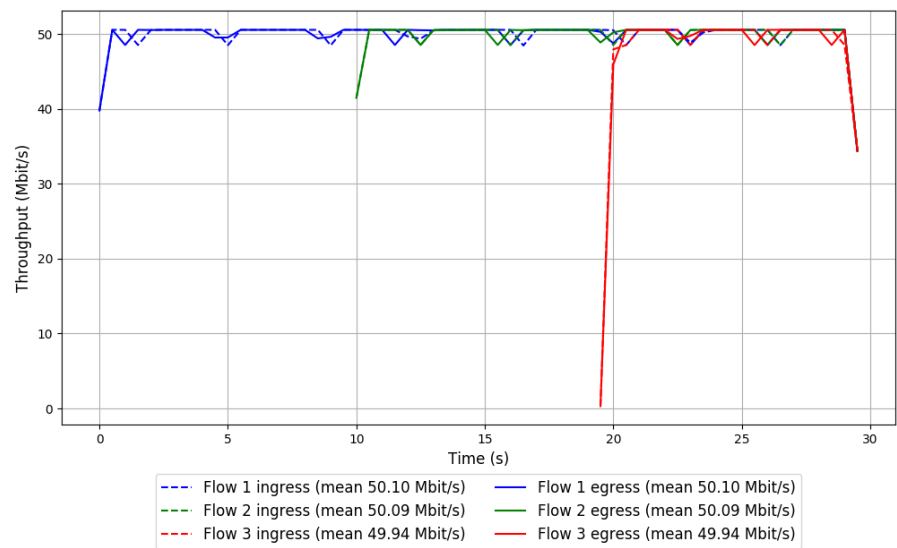


Run 8: Statistics of Sprout

Start at: 2017-09-21 21:42:56
End at: 2017-09-21 21:43:26
Local clock offset: 0.028 ms
Remote clock offset: 0.72 ms

```
# Below is generated by plot.py at 2017-09-22 02:59:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 99.88 Mbit/s
95th percentile per-packet one-way delay: 3.041 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 50.10 Mbit/s
95th percentile per-packet one-way delay: 2.929 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 50.09 Mbit/s
95th percentile per-packet one-way delay: 3.112 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 49.94 Mbit/s
95th percentile per-packet one-way delay: 3.128 ms
Loss rate: 0.00%
```

Run 8: Report of Sprout — Data Link

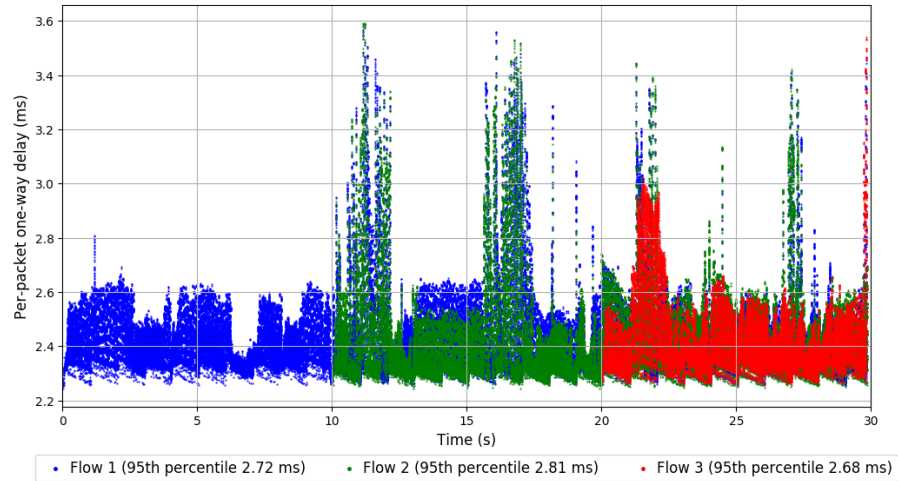
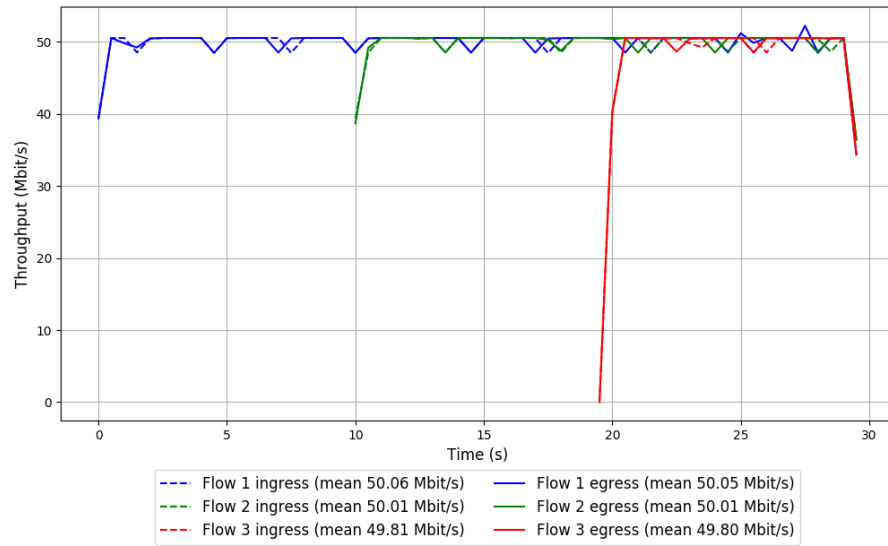


Run 9: Statistics of Sprout

Start at: 2017-09-21 22:02:09
End at: 2017-09-21 22:02:39
Local clock offset: 0.029 ms
Remote clock offset: 0.744 ms

```
# Below is generated by plot.py at 2017-09-22 02:59:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 99.70 Mbit/s
95th percentile per-packet one-way delay: 2.743 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 50.05 Mbit/s
95th percentile per-packet one-way delay: 2.718 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 50.01 Mbit/s
95th percentile per-packet one-way delay: 2.812 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 49.80 Mbit/s
95th percentile per-packet one-way delay: 2.680 ms
Loss rate: 0.21%
```

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2017-09-21 22:21:02

End at: 2017-09-21 22:21:32

Local clock offset: 0.105 ms

Remote clock offset: 0.659 ms

Below is generated by plot.py at 2017-09-22 02:59:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 99.79 Mbit/s

95th percentile per-packet one-way delay: 2.596 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 50.10 Mbit/s

95th percentile per-packet one-way delay: 2.616 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 50.01 Mbit/s

95th percentile per-packet one-way delay: 2.561 ms

Loss rate: 0.00%

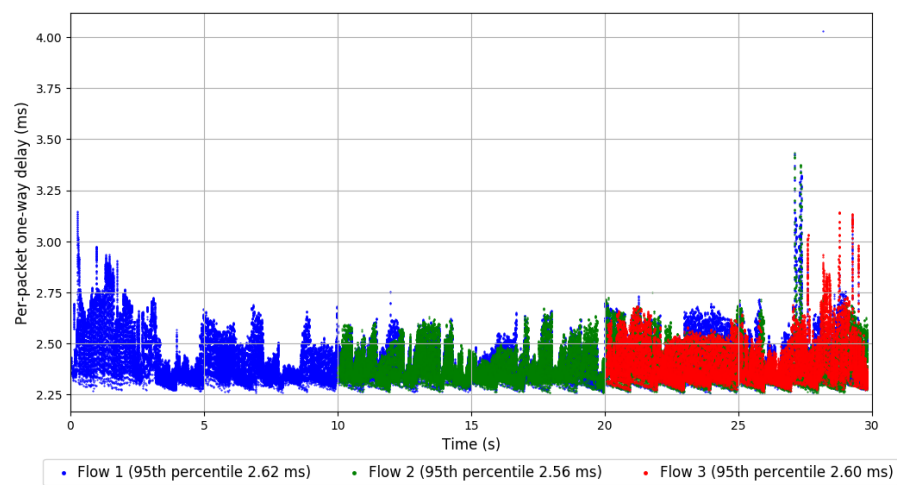
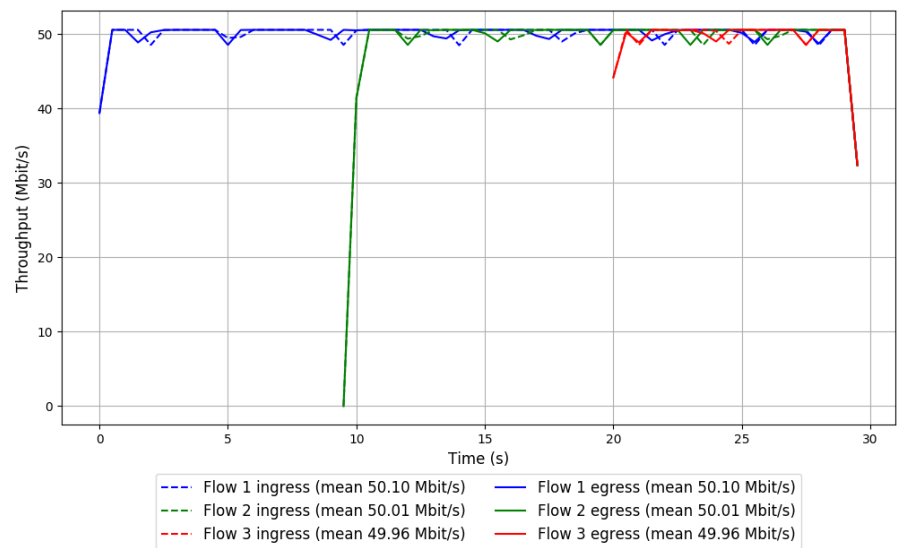
-- Flow 3:

Average throughput: 49.96 Mbit/s

95th percentile per-packet one-way delay: 2.603 ms

Loss rate: 0.00%

Run 10: Report of Sprout — Data Link

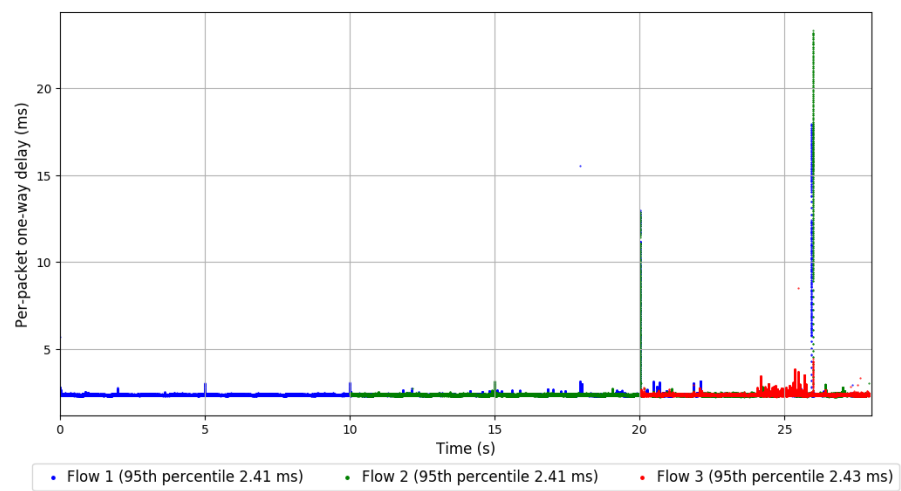
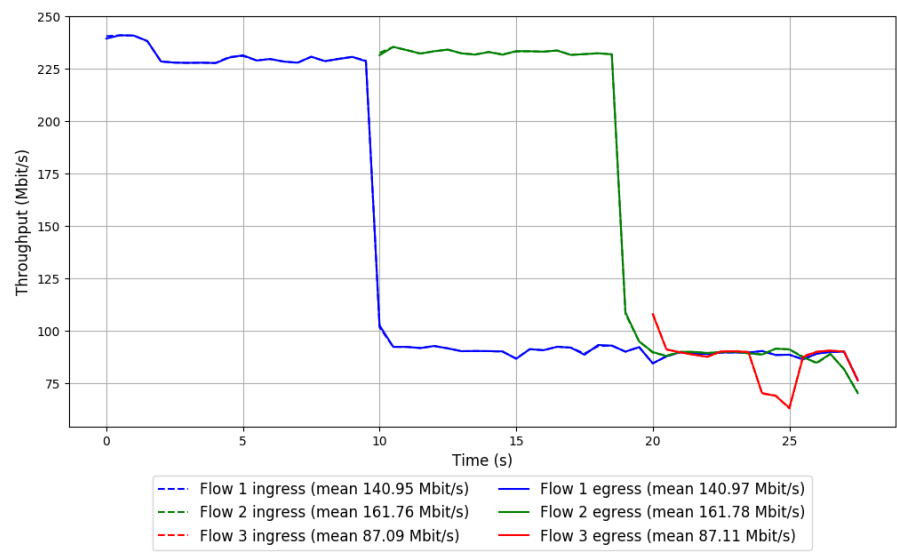


Run 1: Statistics of TaoVA-100x

Start at: 2017-09-21 19:28:51
End at: 2017-09-21 19:29:21
Local clock offset: -0.006 ms
Remote clock offset: -0.077 ms

Below is generated by plot.py at 2017-09-22 03:04:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 269.40 Mbit/s
95th percentile per-packet one-way delay: 2.411 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 140.97 Mbit/s
95th percentile per-packet one-way delay: 2.410 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 161.78 Mbit/s
95th percentile per-packet one-way delay: 2.407 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 87.11 Mbit/s
95th percentile per-packet one-way delay: 2.429 ms
Loss rate: 0.06%

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



Run 2: Statistics of TaoVA-100x

Start at: 2017-09-21 19:47:51

End at: 2017-09-21 19:48:21

Local clock offset: -0.071 ms

Remote clock offset: 0.179 ms

Below is generated by plot.py at 2017-09-22 03:04:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 188.24 Mbit/s

95th percentile per-packet one-way delay: 2.247 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 104.67 Mbit/s

95th percentile per-packet one-way delay: 2.243 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 91.52 Mbit/s

95th percentile per-packet one-way delay: 2.248 ms

Loss rate: 0.02%

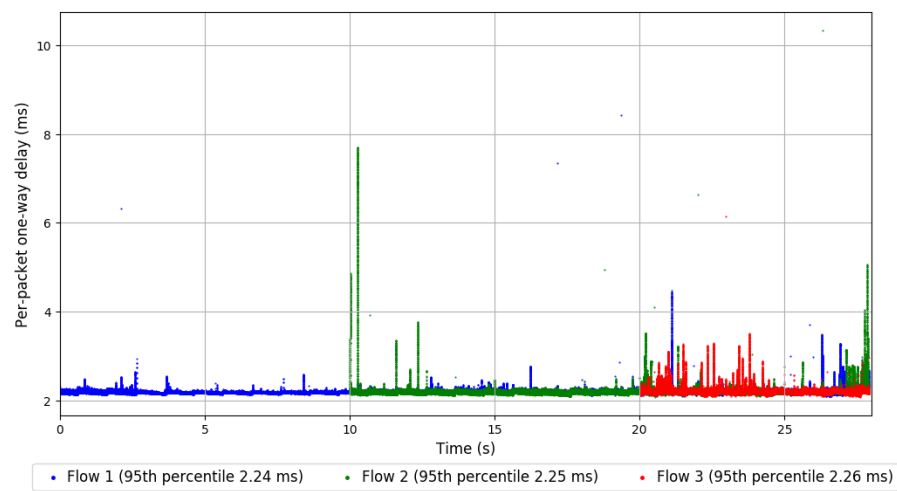
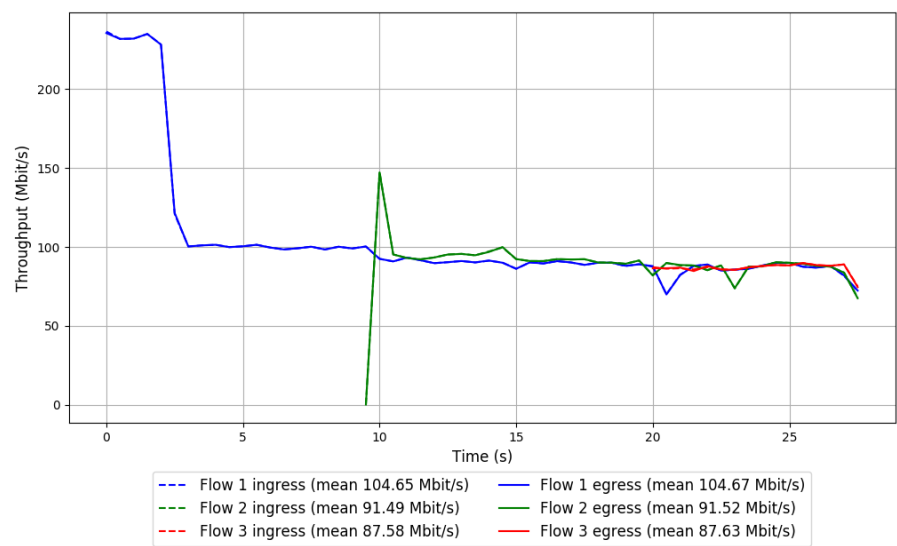
-- Flow 3:

Average throughput: 87.63 Mbit/s

95th percentile per-packet one-way delay: 2.261 ms

Loss rate: 0.06%

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



Run 3: Statistics of TaoVA-100x

Start at: 2017-09-21 20:06:28

End at: 2017-09-21 20:06:58

Local clock offset: 0.038 ms

Remote clock offset: 0.395 ms

Below is generated by plot.py at 2017-09-22 03:04:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 177.56 Mbit/s

95th percentile per-packet one-way delay: 2.314 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 92.72 Mbit/s

95th percentile per-packet one-way delay: 2.305 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 93.34 Mbit/s

95th percentile per-packet one-way delay: 2.319 ms

Loss rate: 0.02%

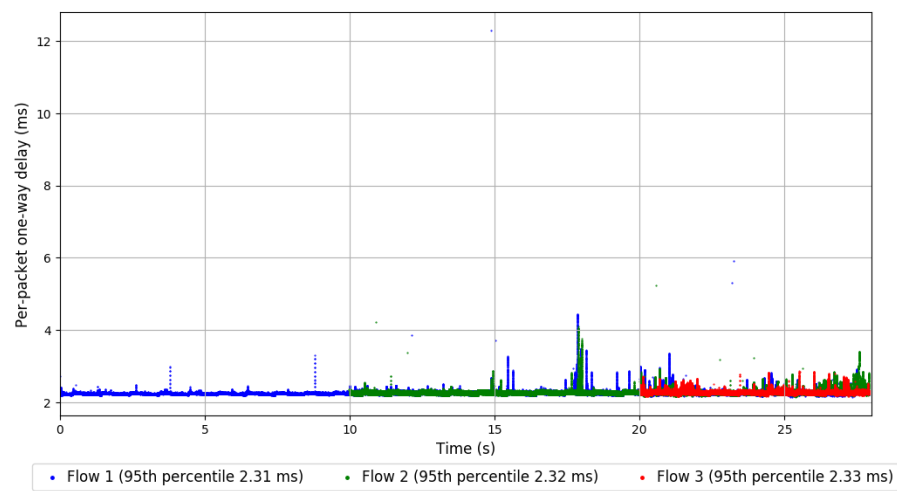
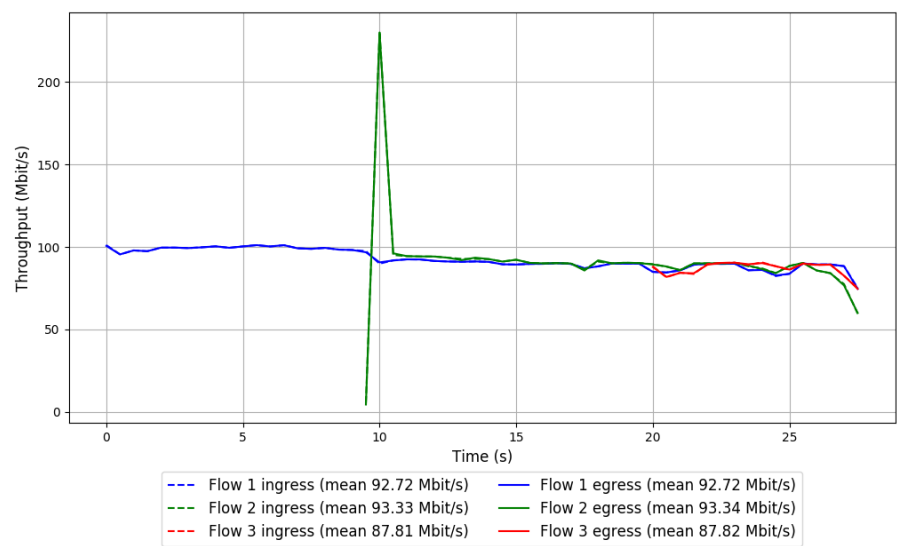
-- Flow 3:

Average throughput: 87.82 Mbit/s

95th percentile per-packet one-way delay: 2.327 ms

Loss rate: 0.07%

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



Run 4: Statistics of TaoVA-100x

Start at: 2017-09-21 20:25:20

End at: 2017-09-21 20:25:50

Local clock offset: -0.022 ms

Remote clock offset: 0.497 ms

Below is generated by plot.py at 2017-09-22 03:04:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 246.25 Mbit/s

95th percentile per-packet one-way delay: 2.340 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 155.36 Mbit/s

95th percentile per-packet one-way delay: 2.338 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 102.76 Mbit/s

95th percentile per-packet one-way delay: 2.346 ms

Loss rate: 0.02%

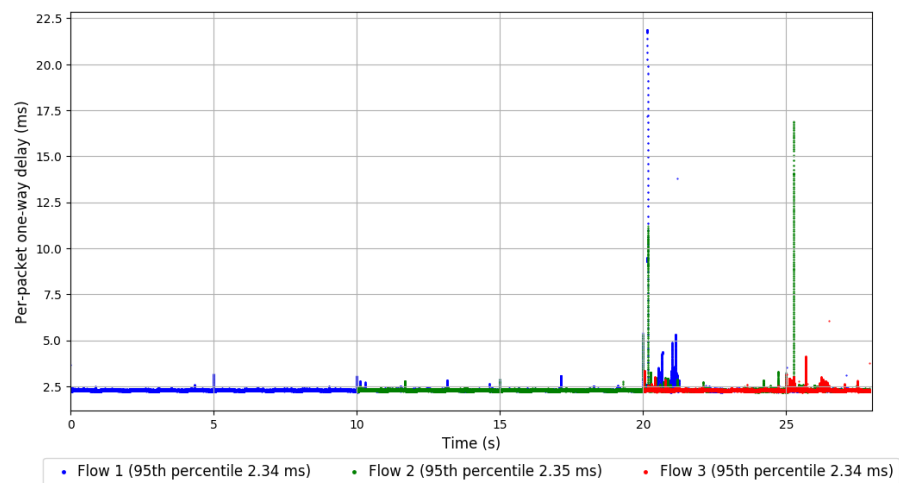
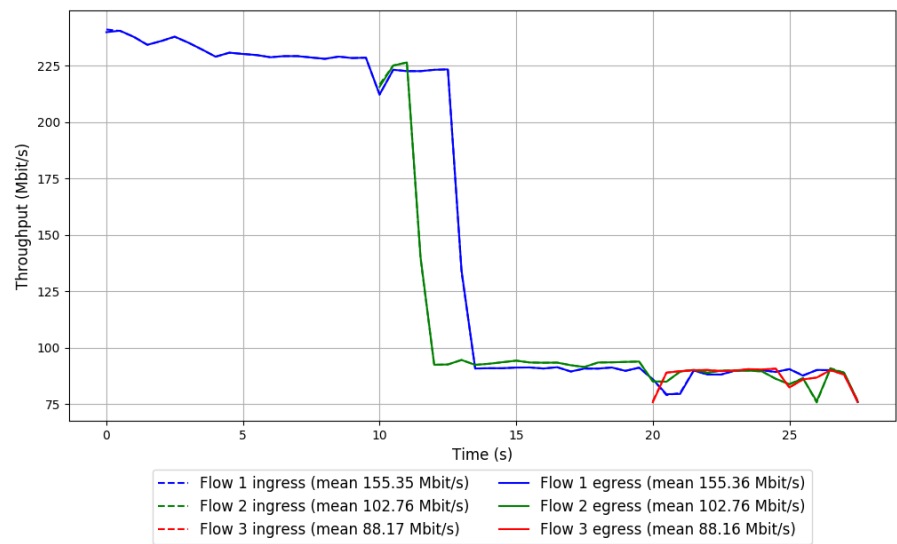
-- Flow 3:

Average throughput: 88.16 Mbit/s

95th percentile per-packet one-way delay: 2.340 ms

Loss rate: 0.06%

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



Run 5: Statistics of TaoVA-100x

Start at: 2017-09-21 20:43:59

End at: 2017-09-21 20:44:29

Local clock offset: 0.04 ms

Remote clock offset: 0.709 ms

Below is generated by plot.py at 2017-09-22 03:04:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 220.96 Mbit/s

95th percentile per-packet one-way delay: 2.339 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 140.62 Mbit/s

95th percentile per-packet one-way delay: 2.325 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 88.35 Mbit/s

95th percentile per-packet one-way delay: 2.373 ms

Loss rate: 0.03%

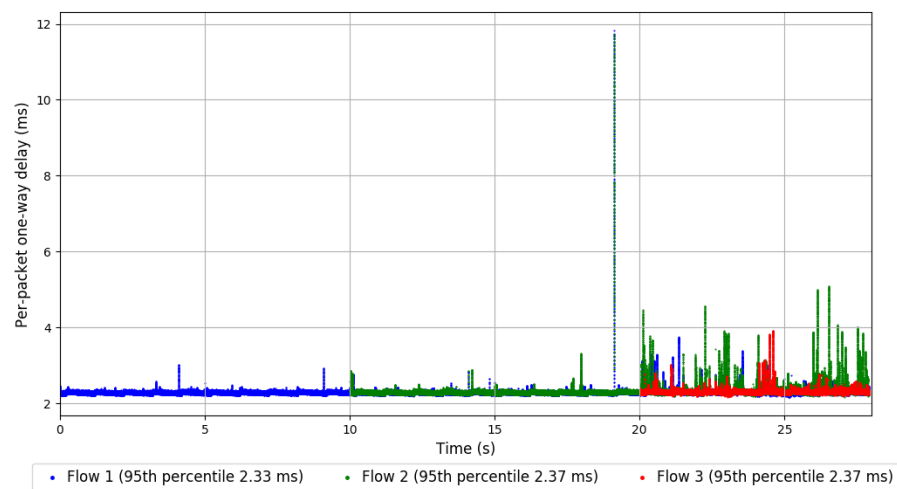
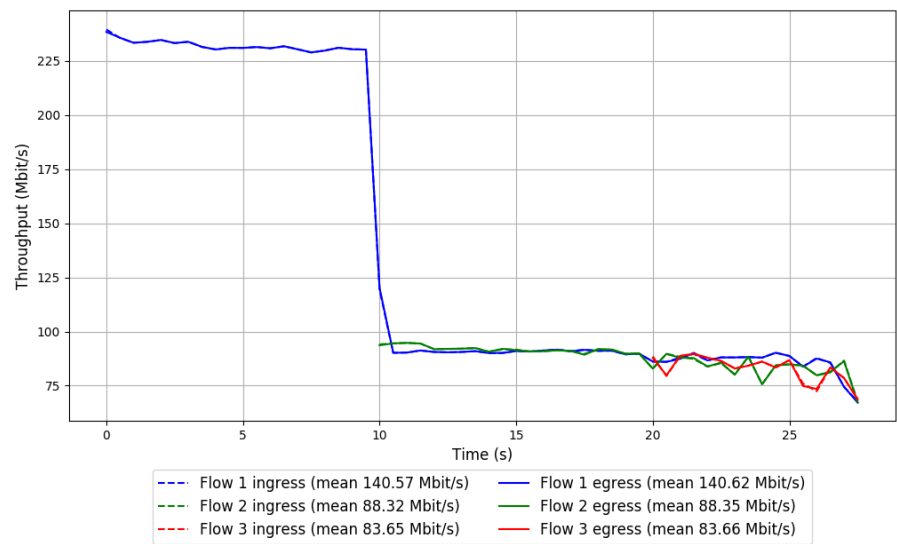
-- Flow 3:

Average throughput: 83.66 Mbit/s

95th percentile per-packet one-way delay: 2.365 ms

Loss rate: 0.05%

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



Run 6: Statistics of TaoVA-100x

Start at: 2017-09-21 21:02:46

End at: 2017-09-21 21:03:16

Local clock offset: 0.025 ms

Remote clock offset: 0.802 ms

Below is generated by plot.py at 2017-09-22 03:04:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 221.14 Mbit/s

95th percentile per-packet one-way delay: 2.412 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 139.22 Mbit/s

95th percentile per-packet one-way delay: 2.411 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 89.44 Mbit/s

95th percentile per-packet one-way delay: 2.410 ms

Loss rate: 0.03%

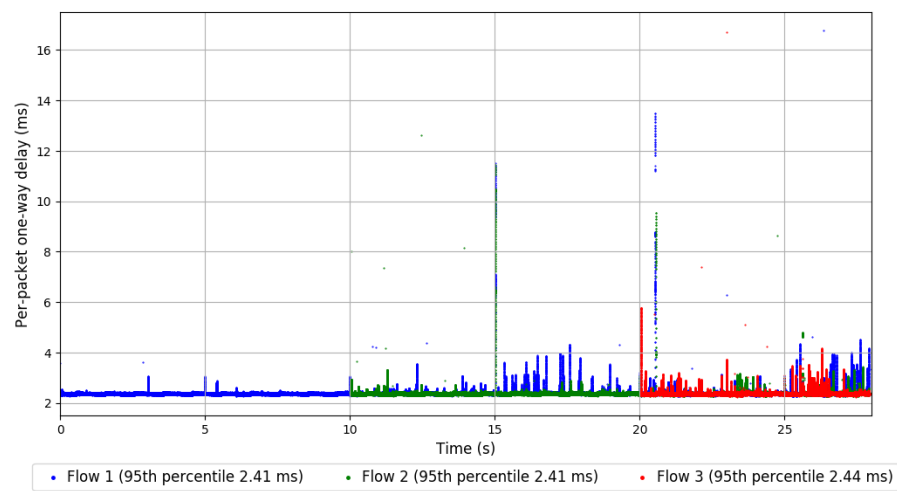
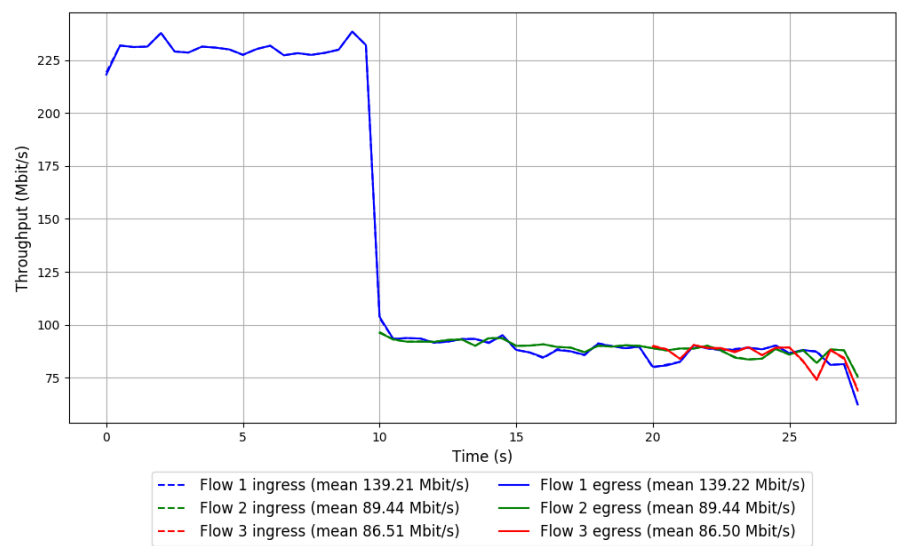
-- Flow 3:

Average throughput: 86.50 Mbit/s

95th percentile per-packet one-way delay: 2.441 ms

Loss rate: 0.06%

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

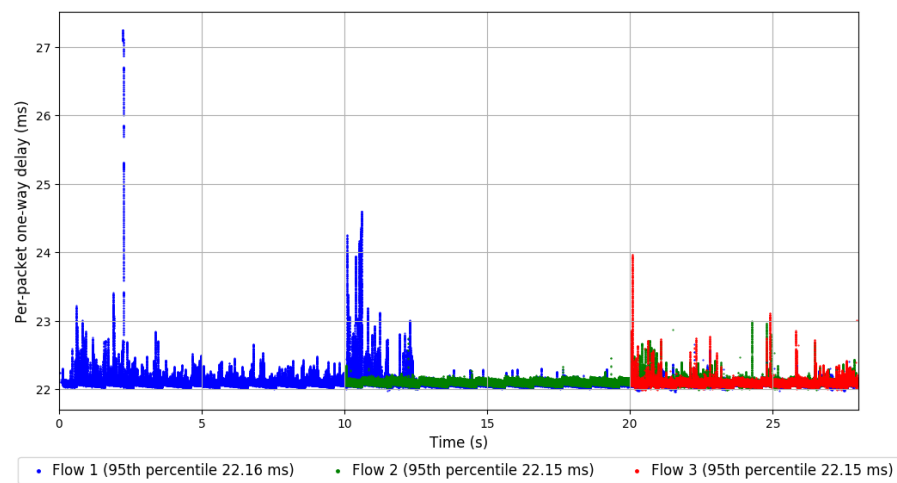
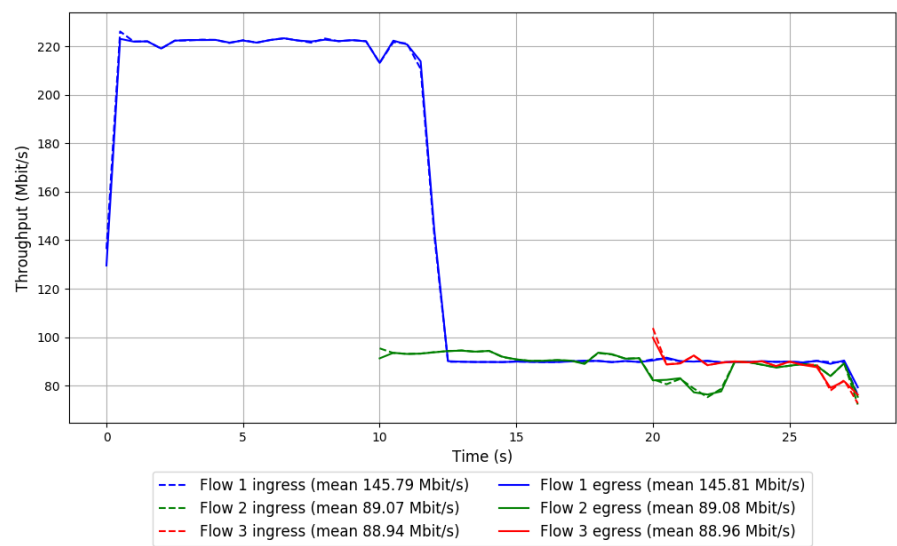


Run 7: Statistics of TaoVA-100x

Start at: 2017-09-21 21:21:41
End at: 2017-09-21 21:22:11
Local clock offset: 0.053 ms
Remote clock offset: -18.928 ms

Below is generated by plot.py at 2017-09-22 03:04:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 228.20 Mbit/s
95th percentile per-packet one-way delay: 22.155 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 145.81 Mbit/s
95th percentile per-packet one-way delay: 22.158 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 89.08 Mbit/s
95th percentile per-packet one-way delay: 22.154 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 88.96 Mbit/s
95th percentile per-packet one-way delay: 22.153 ms
Loss rate: 0.06%

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



Run 8: Statistics of TaoVA-100x

Start at: 2017-09-21 21:40:31

End at: 2017-09-21 21:41:01

Local clock offset: -0.055 ms

Remote clock offset: 0.811 ms

Below is generated by plot.py at 2017-09-22 03:04:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 225.05 Mbit/s

95th percentile per-packet one-way delay: 2.241 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 140.05 Mbit/s

95th percentile per-packet one-way delay: 2.245 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 93.56 Mbit/s

95th percentile per-packet one-way delay: 2.232 ms

Loss rate: 0.02%

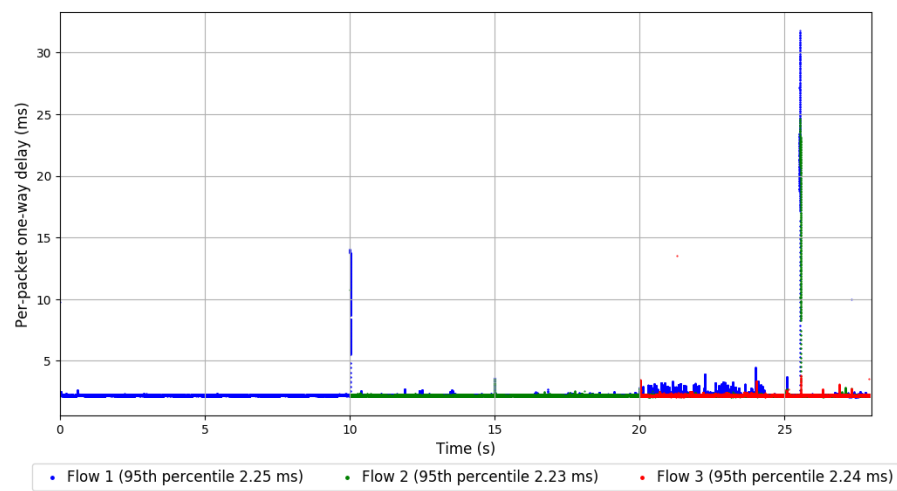
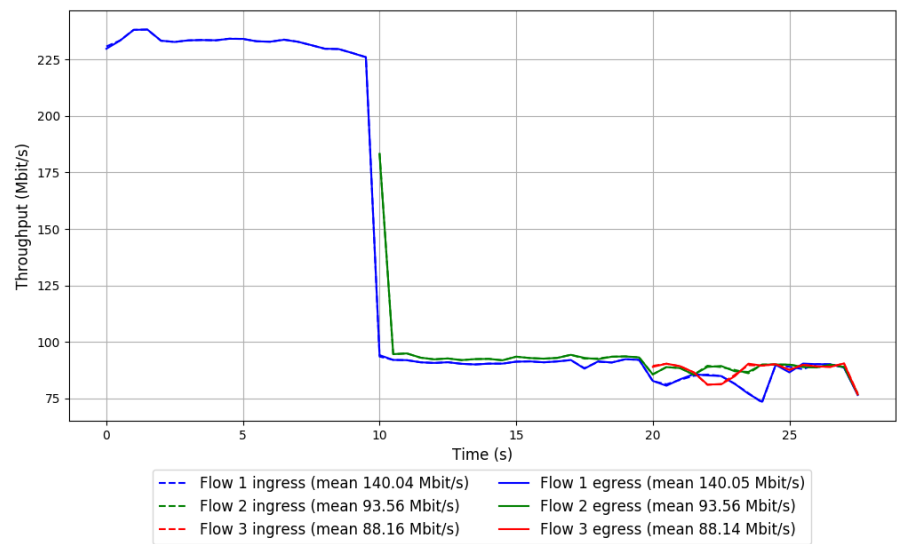
-- Flow 3:

Average throughput: 88.14 Mbit/s

95th percentile per-packet one-way delay: 2.237 ms

Loss rate: 0.06%

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



Run 9: Statistics of TaoVA-100x

Start at: 2017-09-21 21:59:44

End at: 2017-09-21 22:00:14

Local clock offset: 0.024 ms

Remote clock offset: 0.789 ms

Below is generated by plot.py at 2017-09-22 03:07:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 230.47 Mbit/s

95th percentile per-packet one-way delay: 2.326 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 146.73 Mbit/s

95th percentile per-packet one-way delay: 2.329 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 91.65 Mbit/s

95th percentile per-packet one-way delay: 2.314 ms

Loss rate: 0.02%

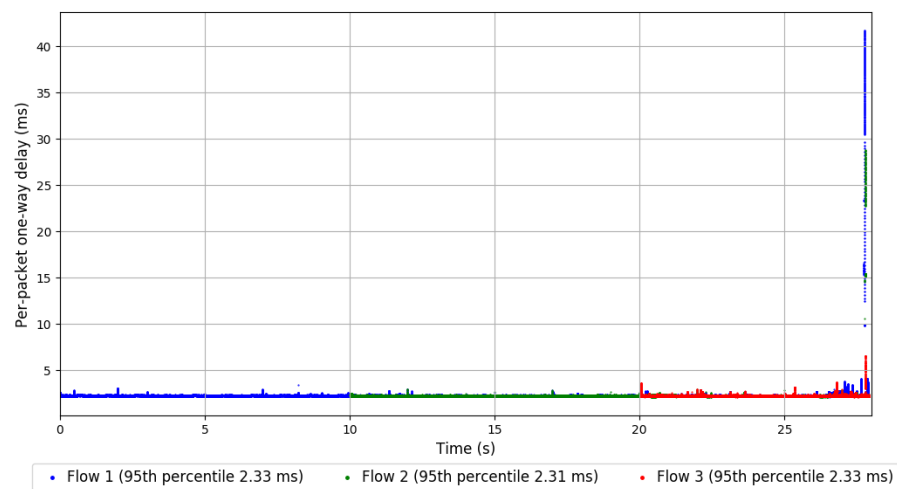
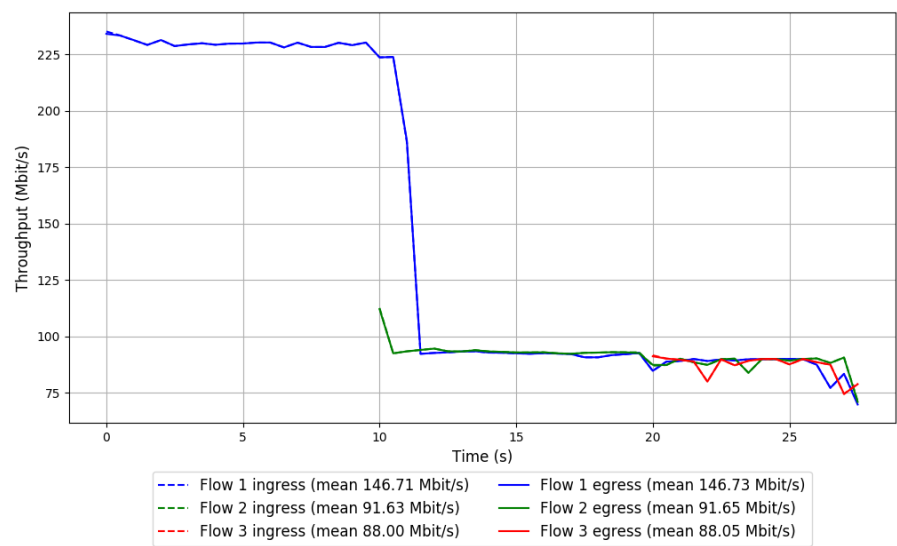
-- Flow 3:

Average throughput: 88.05 Mbit/s

95th percentile per-packet one-way delay: 2.329 ms

Loss rate: 0.05%

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

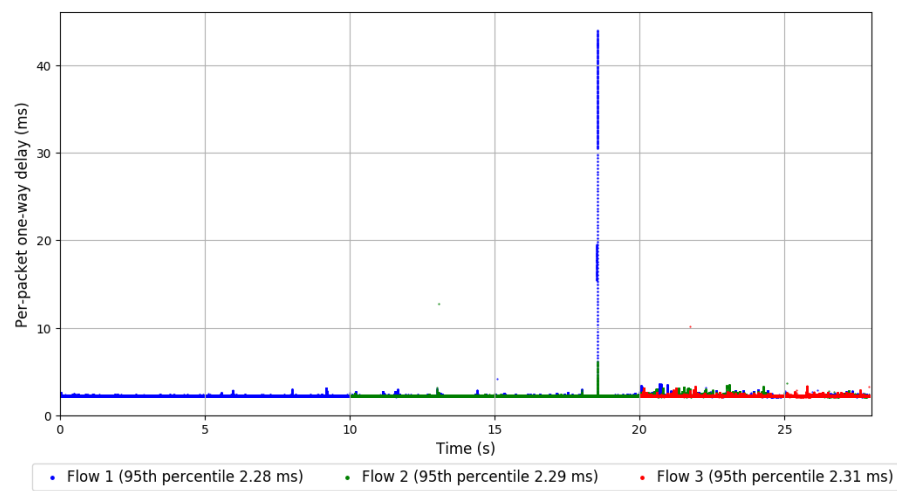
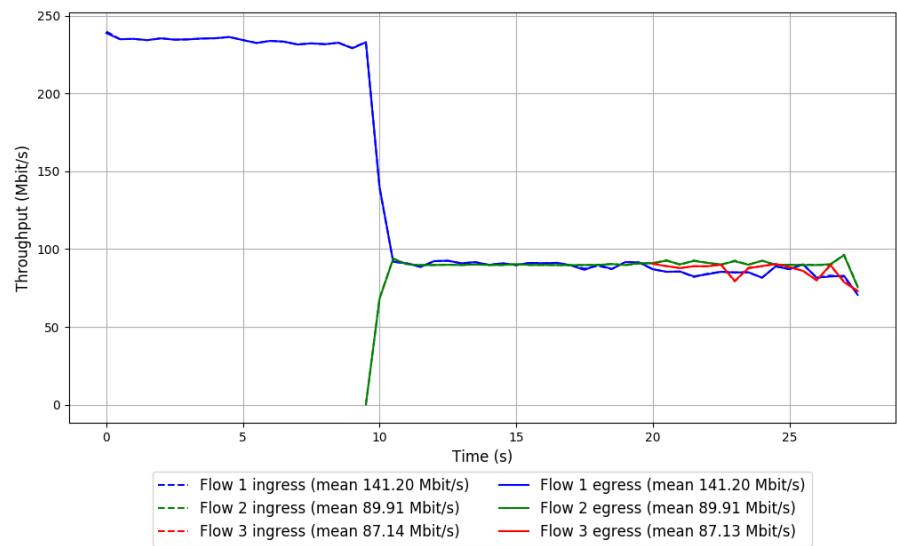


```
Run 10: Statistics of TaoVA-100x

Start at: 2017-09-21 22:18:38
End at: 2017-09-21 22:19:08
Local clock offset: 0.104 ms
Remote clock offset: 0.777 ms

# Below is generated by plot.py at 2017-09-22 03:07:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 223.60 Mbit/s
95th percentile per-packet one-way delay: 2.283 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 141.20 Mbit/s
95th percentile per-packet one-way delay: 2.280 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 89.91 Mbit/s
95th percentile per-packet one-way delay: 2.289 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 87.13 Mbit/s
95th percentile per-packet one-way delay: 2.305 ms
Loss rate: 0.06%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2017-09-21 19:27:17

End at: 2017-09-21 19:27:47

Local clock offset: -0.071 ms

Remote clock offset: -0.02 ms

Below is generated by plot.py at 2017-09-22 03:13:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 731.05 Mbit/s

95th percentile per-packet one-way delay: 2.743 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 371.88 Mbit/s

95th percentile per-packet one-way delay: 2.683 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 437.69 Mbit/s

95th percentile per-packet one-way delay: 2.800 ms

Loss rate: 0.02%

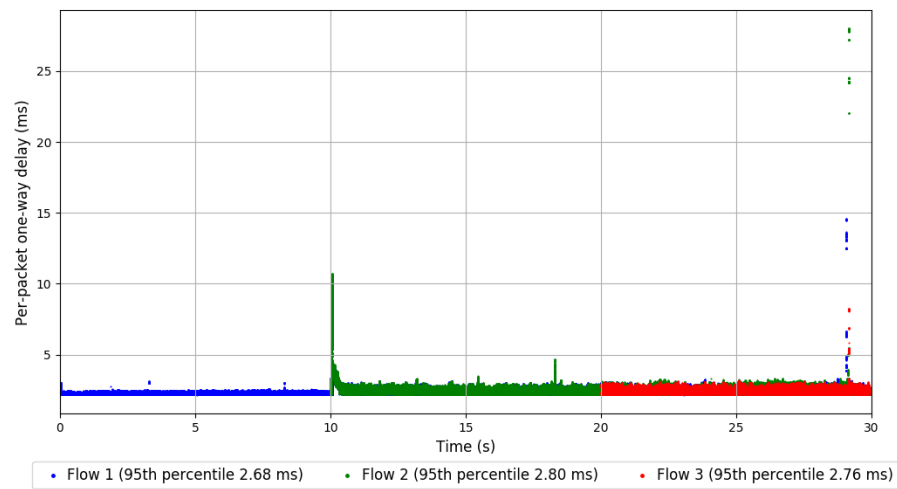
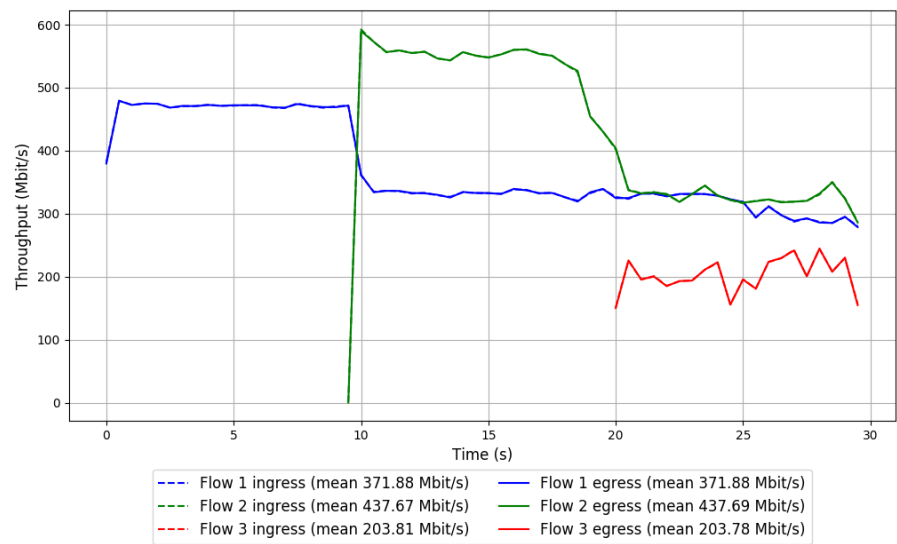
-- Flow 3:

Average throughput: 203.78 Mbit/s

95th percentile per-packet one-way delay: 2.761 ms

Loss rate: 0.06%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2017-09-21 19:46:15

End at: 2017-09-21 19:46:45

Local clock offset: 0.004 ms

Remote clock offset: 0.186 ms

Below is generated by plot.py at 2017-09-22 03:14:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 766.52 Mbit/s

95th percentile per-packet one-way delay: 2.725 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 386.32 Mbit/s

95th percentile per-packet one-way delay: 2.667 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 403.68 Mbit/s

95th percentile per-packet one-way delay: 2.763 ms

Loss rate: 0.02%

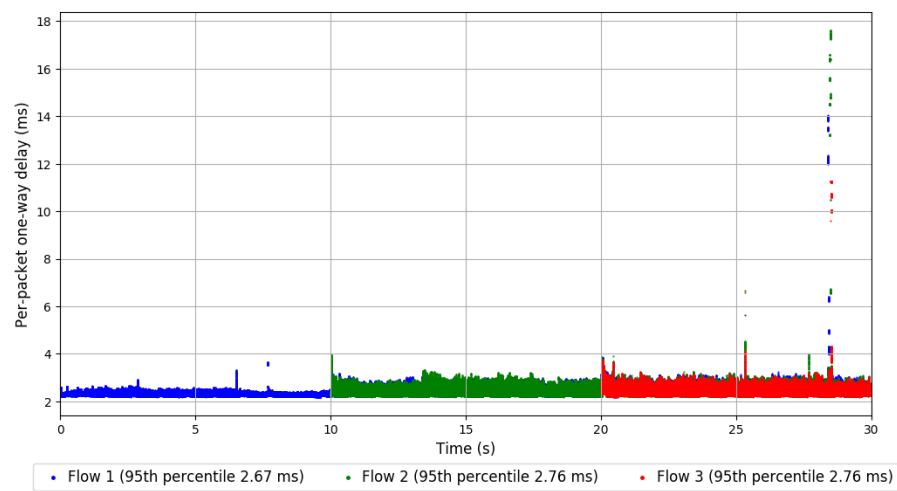
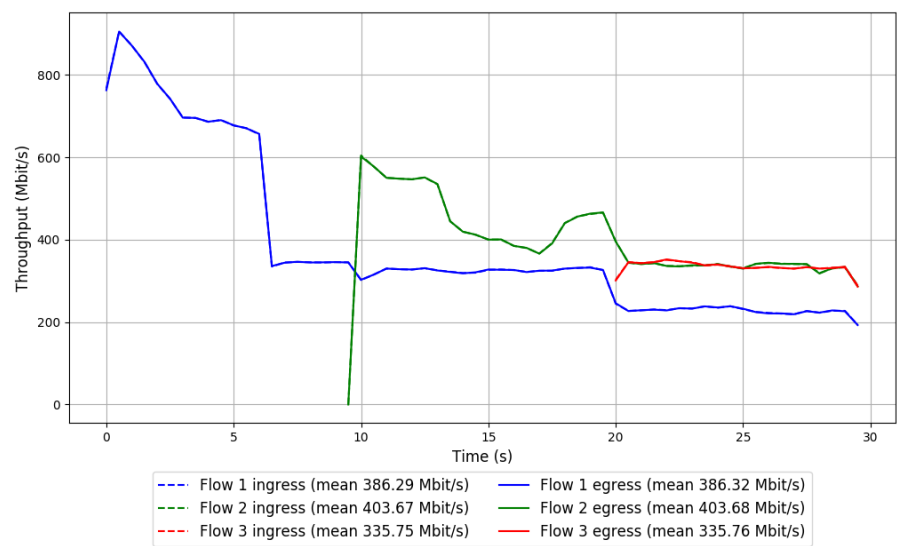
-- Flow 3:

Average throughput: 335.76 Mbit/s

95th percentile per-packet one-way delay: 2.761 ms

Loss rate: 0.04%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2017-09-21 20:04:56

End at: 2017-09-21 20:05:26

Local clock offset: -0.197 ms

Remote clock offset: 0.367 ms

Below is generated by plot.py at 2017-09-22 03:14:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 668.54 Mbit/s

95th percentile per-packet one-way delay: 2.591 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 358.72 Mbit/s

95th percentile per-packet one-way delay: 2.499 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 287.49 Mbit/s

95th percentile per-packet one-way delay: 2.560 ms

Loss rate: 0.02%

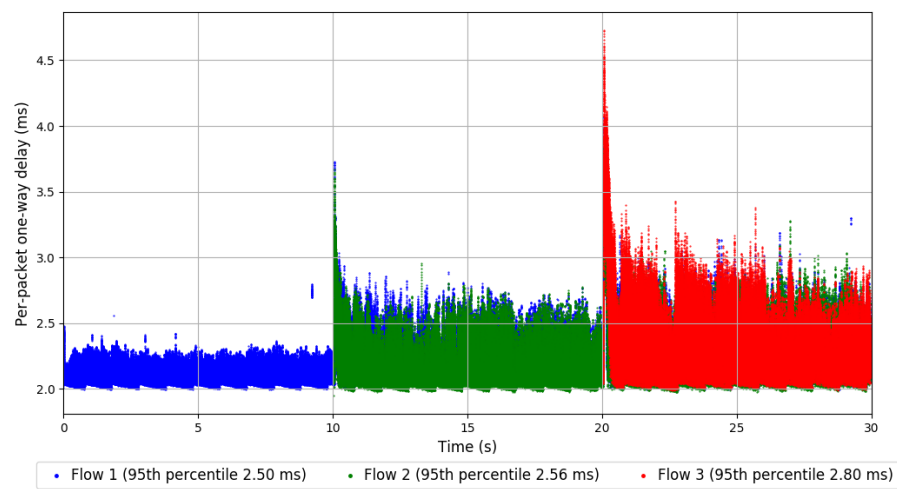
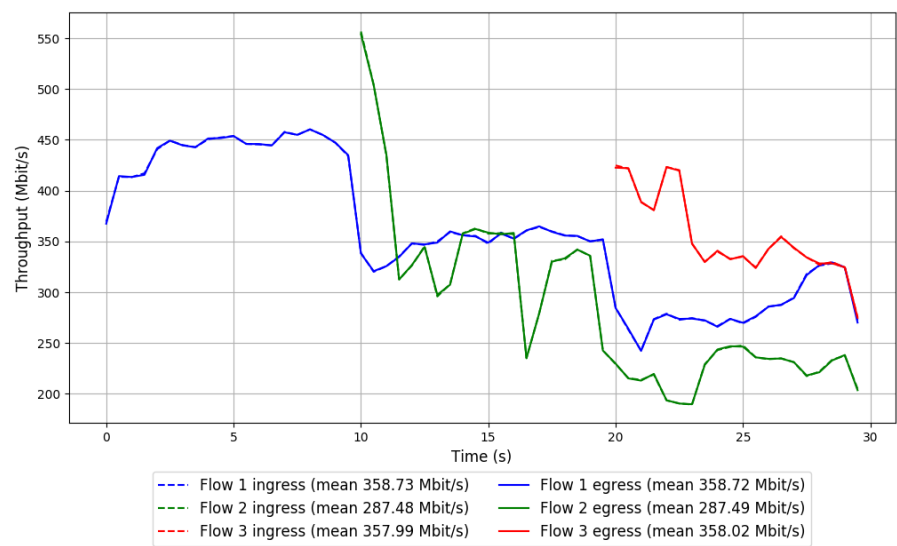
-- Flow 3:

Average throughput: 358.02 Mbit/s

95th percentile per-packet one-way delay: 2.803 ms

Loss rate: 0.04%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2017-09-21 20:23:41

End at: 2017-09-21 20:24:11

Local clock offset: 0.079 ms

Remote clock offset: 0.492 ms

Below is generated by plot.py at 2017-09-22 03:15:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 840.44 Mbit/s

95th percentile per-packet one-way delay: 3.130 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 453.83 Mbit/s

95th percentile per-packet one-way delay: 3.766 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 436.09 Mbit/s

95th percentile per-packet one-way delay: 2.965 ms

Loss rate: 0.02%

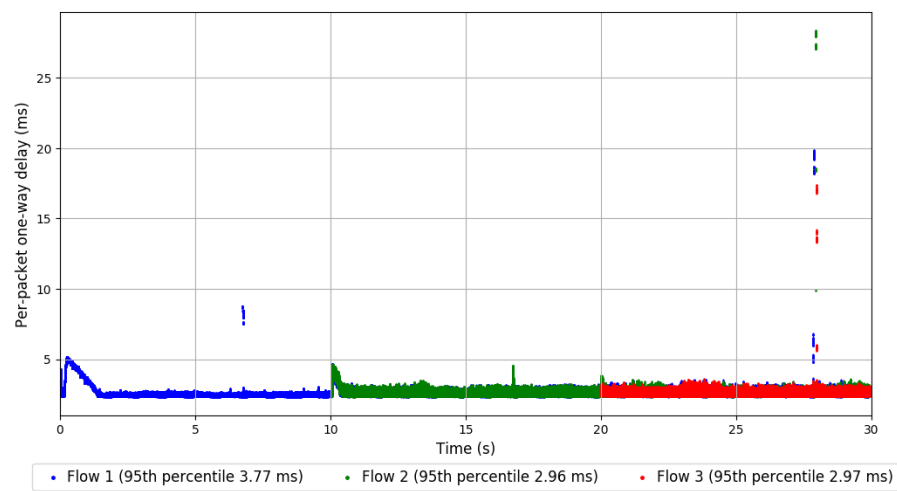
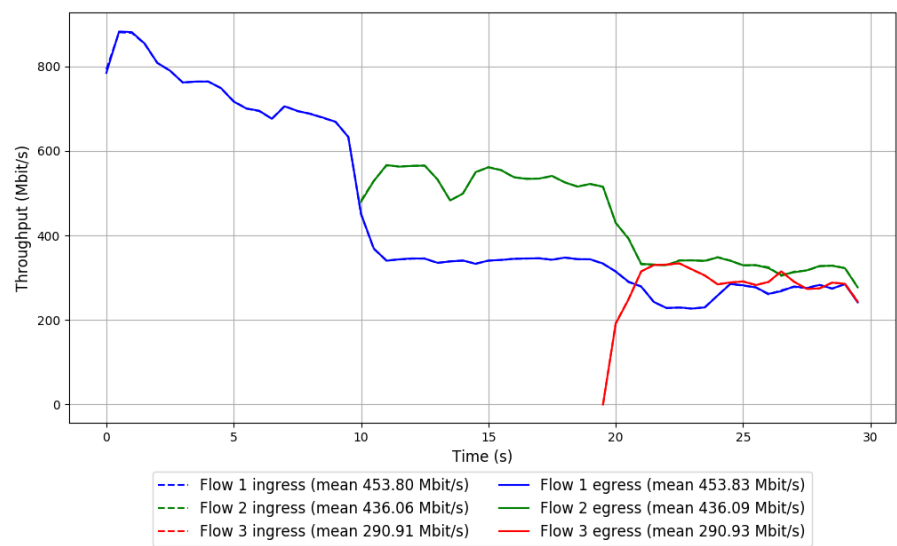
-- Flow 3:

Average throughput: 290.93 Mbit/s

95th percentile per-packet one-way delay: 2.966 ms

Loss rate: 0.04%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2017-09-21 20:42:30

End at: 2017-09-21 20:43:00

Local clock offset: 0.036 ms

Remote clock offset: 0.685 ms

Below is generated by plot.py at 2017-09-22 03:15:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 625.09 Mbit/s

95th percentile per-packet one-way delay: 2.825 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 206.79 Mbit/s

95th percentile per-packet one-way delay: 2.774 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 446.68 Mbit/s

95th percentile per-packet one-way delay: 2.813 ms

Loss rate: 0.02%

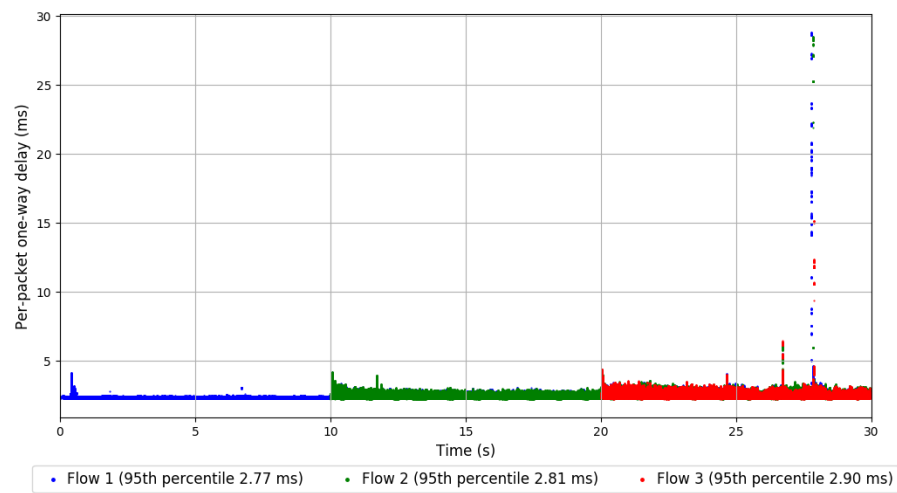
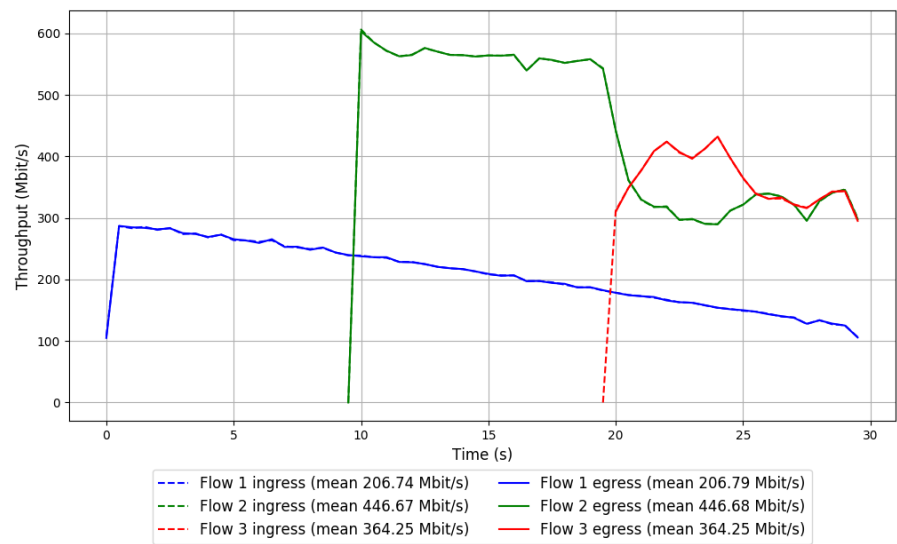
-- Flow 3:

Average throughput: 364.25 Mbit/s

95th percentile per-packet one-way delay: 2.898 ms

Loss rate: 0.05%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2017-09-21 21:01:16

End at: 2017-09-21 21:01:46

Local clock offset: 0.031 ms

Remote clock offset: 0.859 ms

Below is generated by plot.py at 2017-09-22 03:15:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 623.42 Mbit/s

95th percentile per-packet one-way delay: 2.778 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 338.18 Mbit/s

95th percentile per-packet one-way delay: 2.710 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 269.69 Mbit/s

95th percentile per-packet one-way delay: 2.778 ms

Loss rate: 0.02%

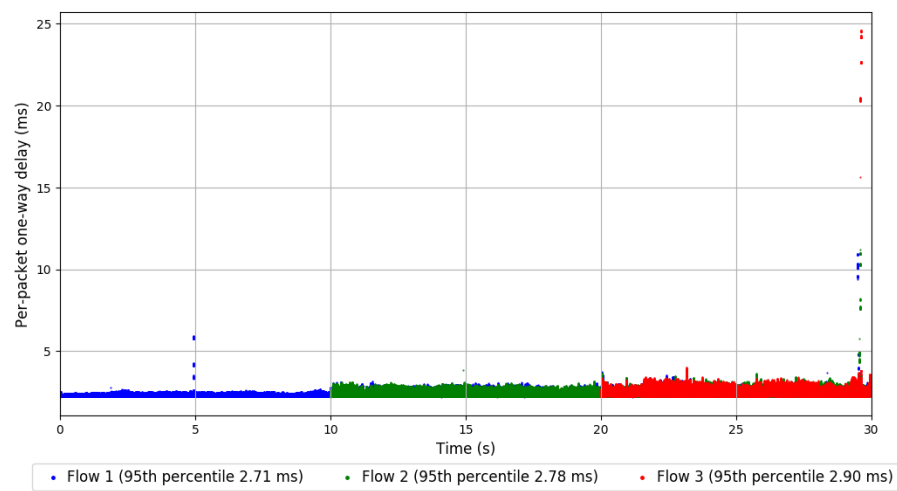
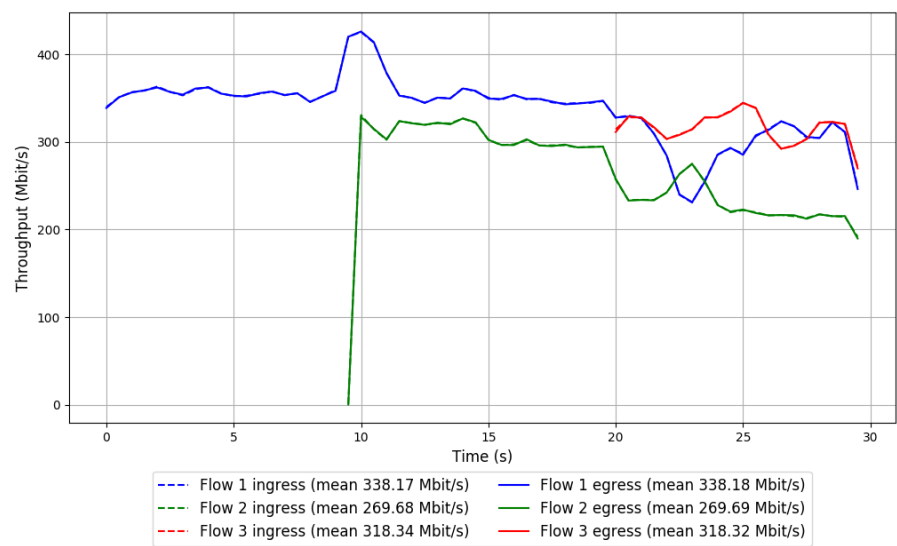
-- Flow 3:

Average throughput: 318.32 Mbit/s

95th percentile per-packet one-way delay: 2.895 ms

Loss rate: 0.05%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2017-09-21 21:20:03

End at: 2017-09-21 21:20:33

Local clock offset: 0.022 ms

Remote clock offset: 0.861 ms

Below is generated by plot.py at 2017-09-22 03:19:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 838.41 Mbit/s

95th percentile per-packet one-way delay: 3.974 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 455.16 Mbit/s

95th percentile per-packet one-way delay: 3.578 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 430.20 Mbit/s

95th percentile per-packet one-way delay: 4.424 ms

Loss rate: 0.02%

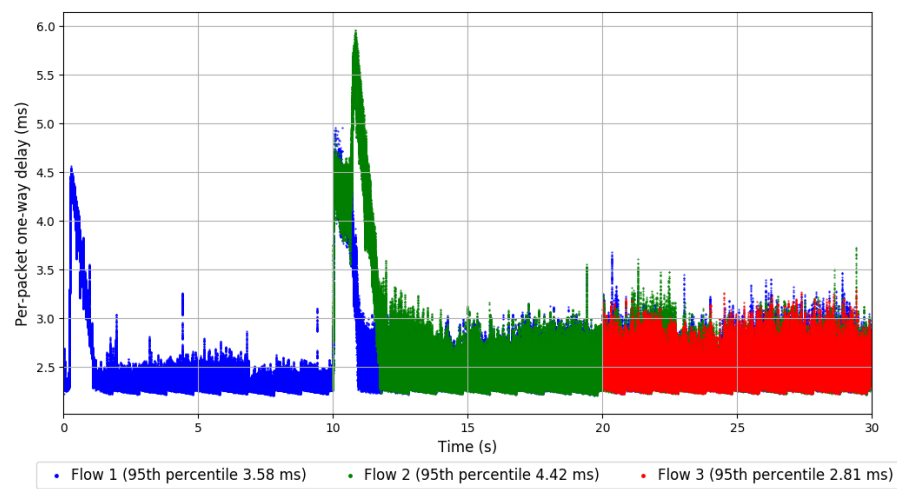
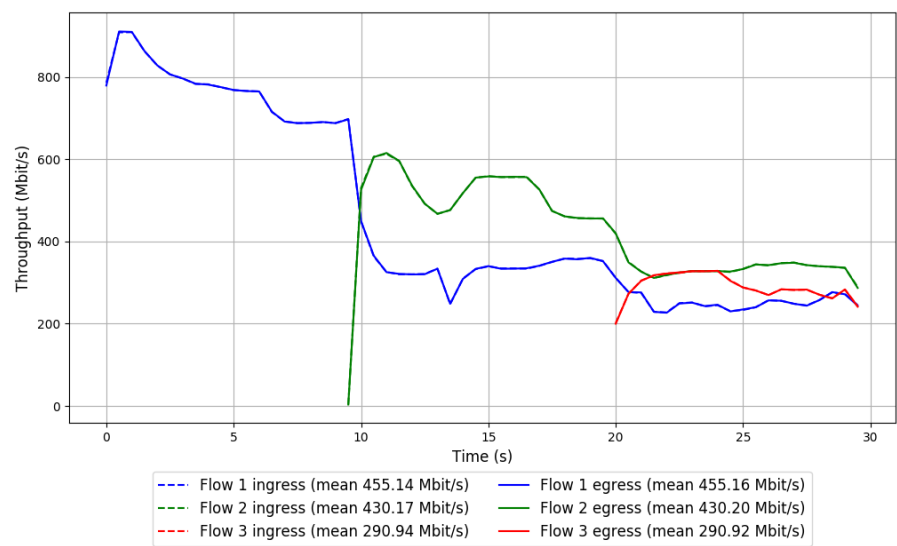
-- Flow 3:

Average throughput: 290.92 Mbit/s

95th percentile per-packet one-way delay: 2.806 ms

Loss rate: 0.04%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2017-09-21 21:38:58

End at: 2017-09-21 21:39:28

Local clock offset: -0.058 ms

Remote clock offset: 0.797 ms

Below is generated by plot.py at 2017-09-22 03:19:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 706.24 Mbit/s

95th percentile per-packet one-way delay: 3.055 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 329.29 Mbit/s

95th percentile per-packet one-way delay: 2.750 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 374.19 Mbit/s

95th percentile per-packet one-way delay: 3.616 ms

Loss rate: 0.01%

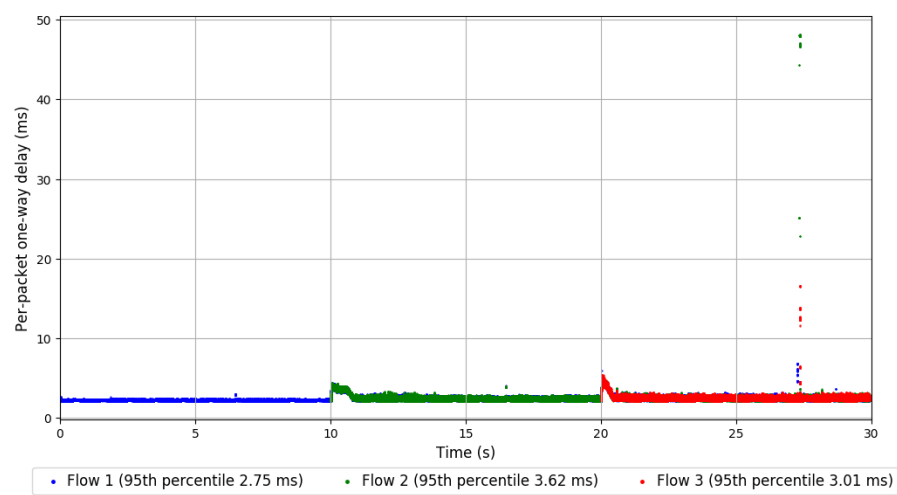
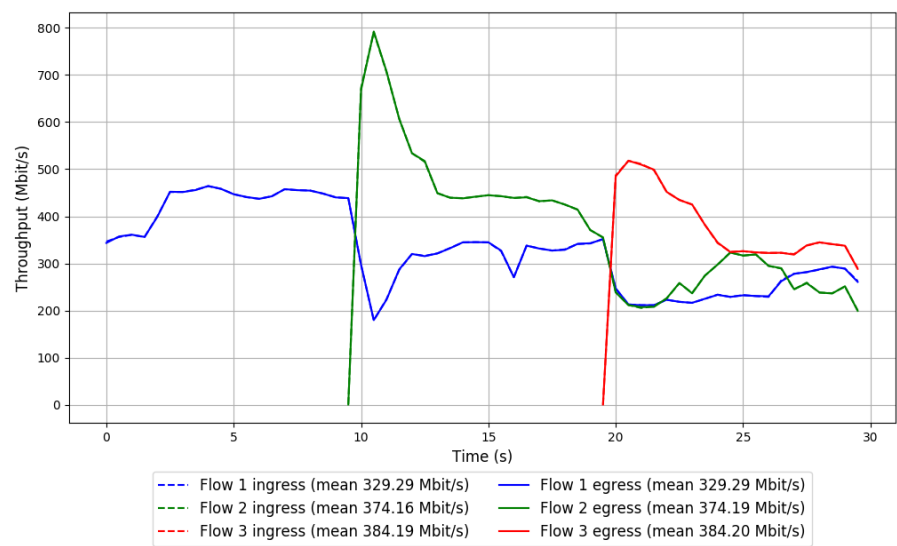
-- Flow 3:

Average throughput: 384.20 Mbit/s

95th percentile per-packet one-way delay: 3.006 ms

Loss rate: 0.04%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2017-09-21 21:58:09

End at: 2017-09-21 21:58:39

Local clock offset: 0.043 ms

Remote clock offset: 0.723 ms

Below is generated by plot.py at 2017-09-22 03:24:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 772.67 Mbit/s

95th percentile per-packet one-way delay: 2.839 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 552.56 Mbit/s

95th percentile per-packet one-way delay: 2.867 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 320.46 Mbit/s

95th percentile per-packet one-way delay: 2.807 ms

Loss rate: 0.02%

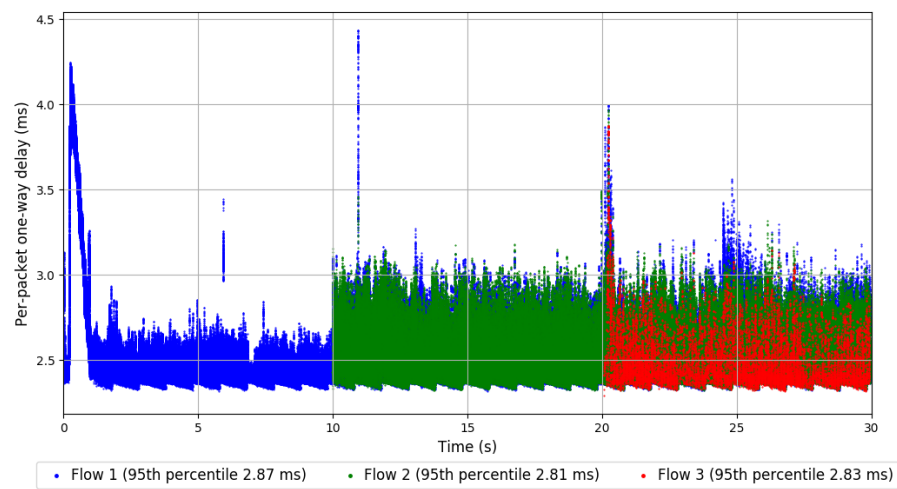
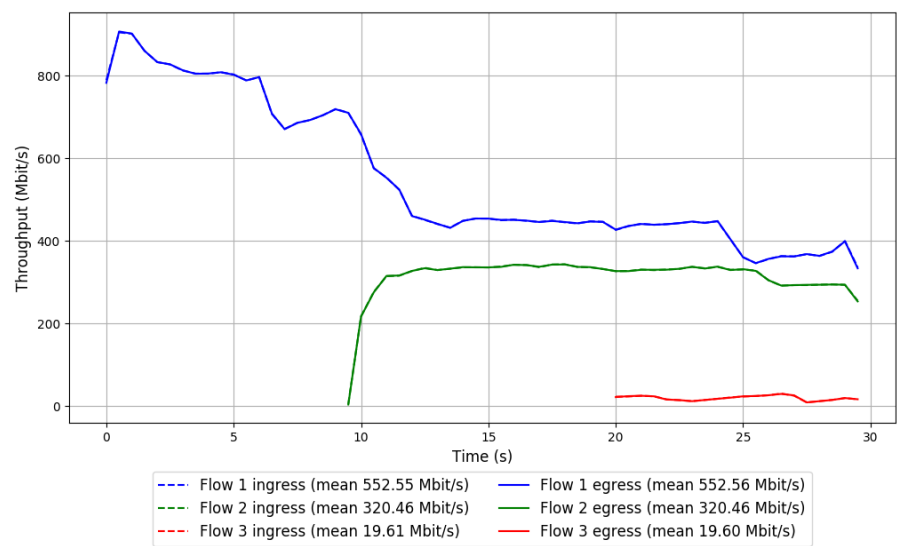
-- Flow 3:

Average throughput: 19.60 Mbit/s

95th percentile per-packet one-way delay: 2.831 ms

Loss rate: 0.04%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2017-09-21 22:17:01

End at: 2017-09-21 22:17:31

Local clock offset: 0.107 ms

Remote clock offset: 0.734 ms

Below is generated by plot.py at 2017-09-22 03:24:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 806.34 Mbit/s

95th percentile per-packet one-way delay: 2.823 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 501.90 Mbit/s

95th percentile per-packet one-way delay: 2.762 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 277.51 Mbit/s

95th percentile per-packet one-way delay: 2.851 ms

Loss rate: 0.02%

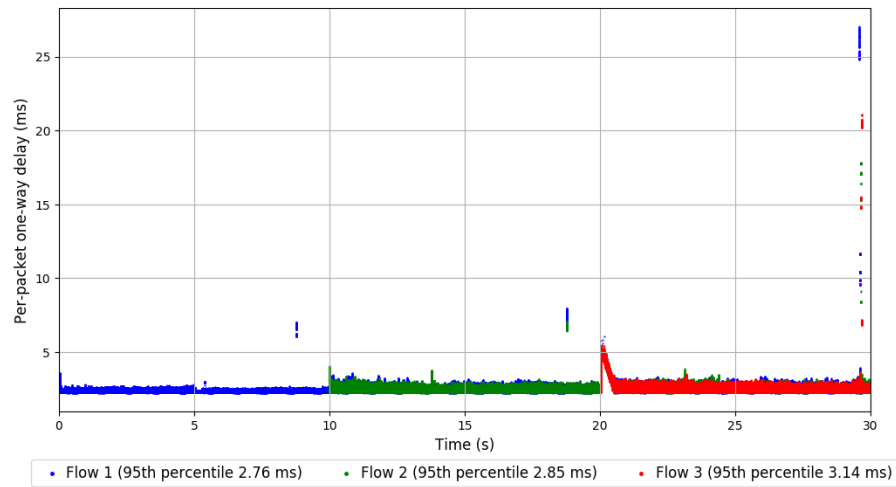
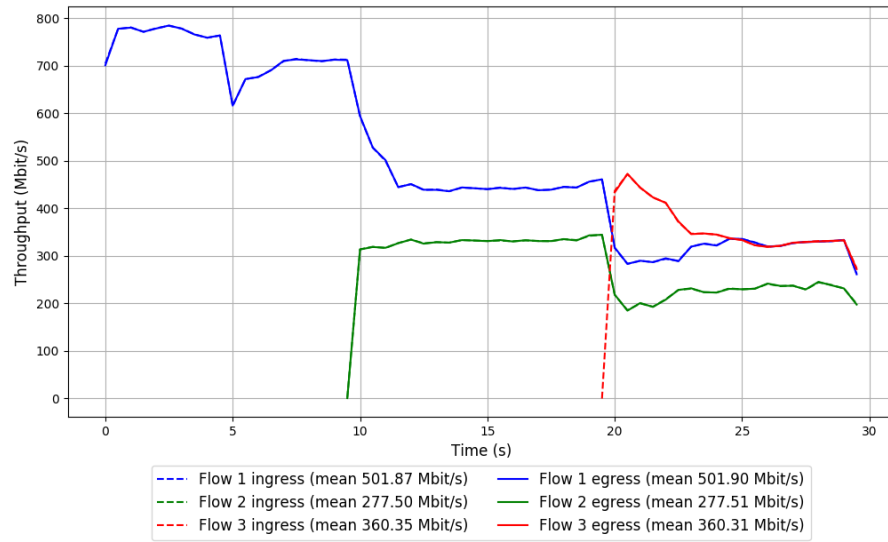
-- Flow 3:

Average throughput: 360.31 Mbit/s

95th percentile per-packet one-way delay: 3.139 ms

Loss rate: 0.05%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2017-09-21 19:40:20

End at: 2017-09-21 19:40:50

Local clock offset: -0.027 ms

Remote clock offset: 0.121 ms

Below is generated by plot.py at 2017-09-22 03:24:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 320.77 Mbit/s

95th percentile per-packet one-way delay: 75.867 ms

Loss rate: 2.39%

-- Flow 1:

Average throughput: 188.00 Mbit/s

95th percentile per-packet one-way delay: 4.425 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 137.90 Mbit/s

95th percentile per-packet one-way delay: 149.725 ms

Loss rate: 7.79%

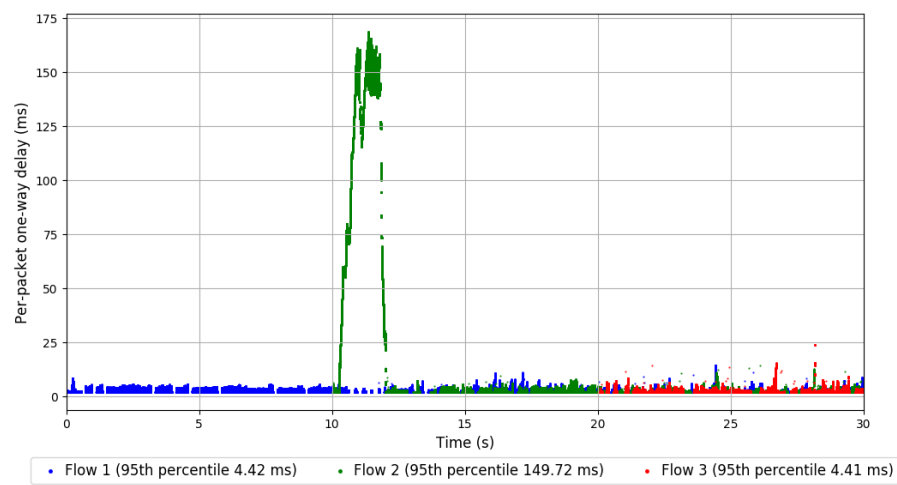
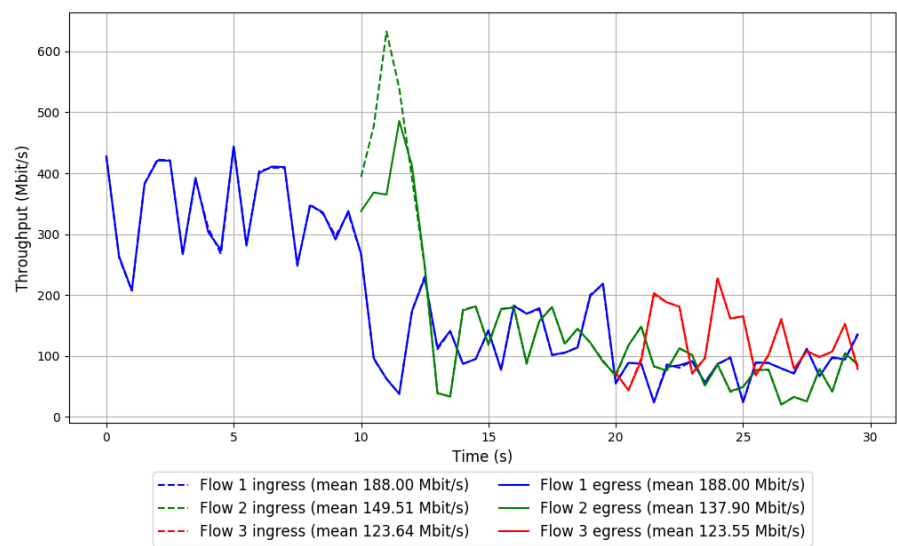
-- Flow 3:

Average throughput: 123.55 Mbit/s

95th percentile per-packet one-way delay: 4.409 ms

Loss rate: 0.14%

Run 1: Report of Verus — Data Link

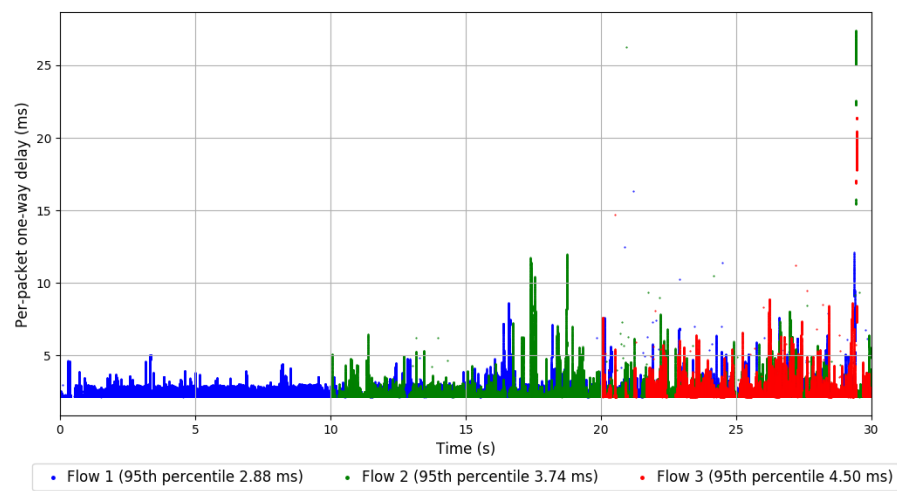
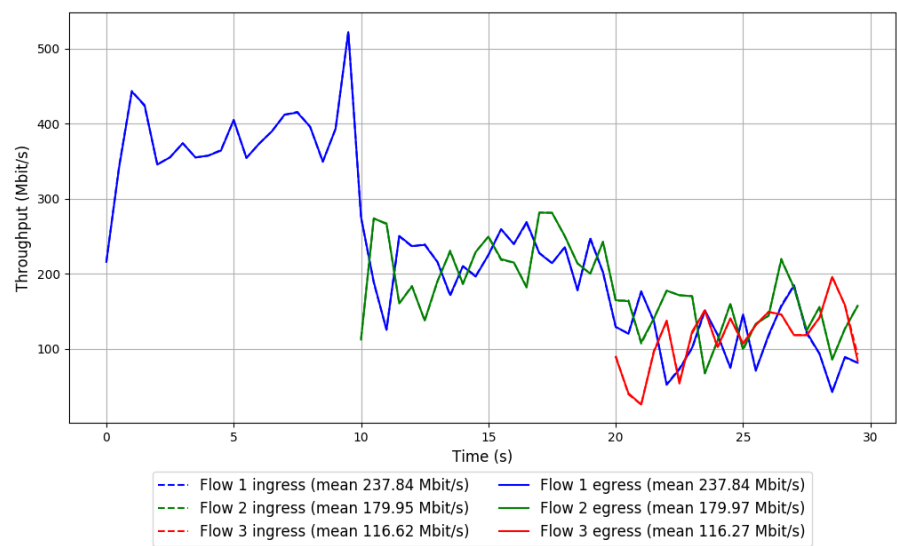


Run 2: Statistics of Verus

Start at: 2017-09-21 19:59:07
End at: 2017-09-21 19:59:37
Local clock offset: -0.036 ms
Remote clock offset: 0.296 ms

Below is generated by plot.py at 2017-09-22 03:24:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 395.98 Mbit/s
95th percentile per-packet one-way delay: 3.277 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 237.84 Mbit/s
95th percentile per-packet one-way delay: 2.882 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 179.97 Mbit/s
95th percentile per-packet one-way delay: 3.742 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 116.27 Mbit/s
95th percentile per-packet one-way delay: 4.500 ms
Loss rate: 0.34%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

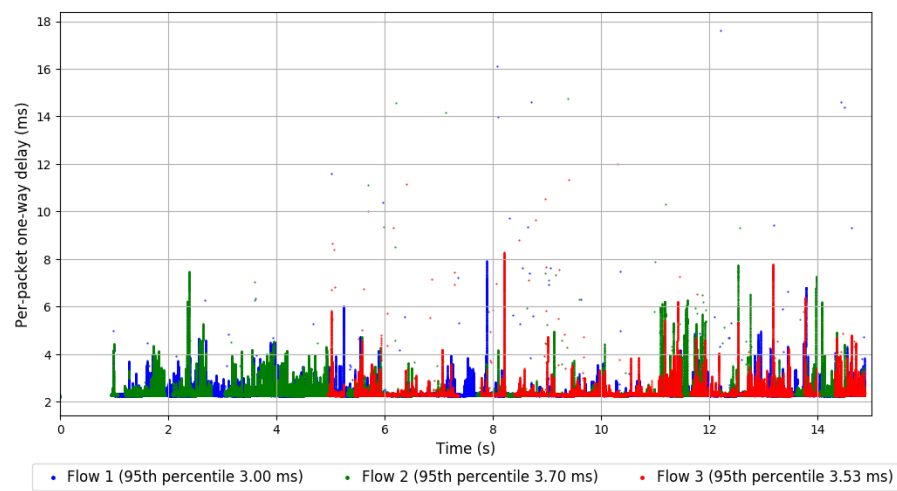
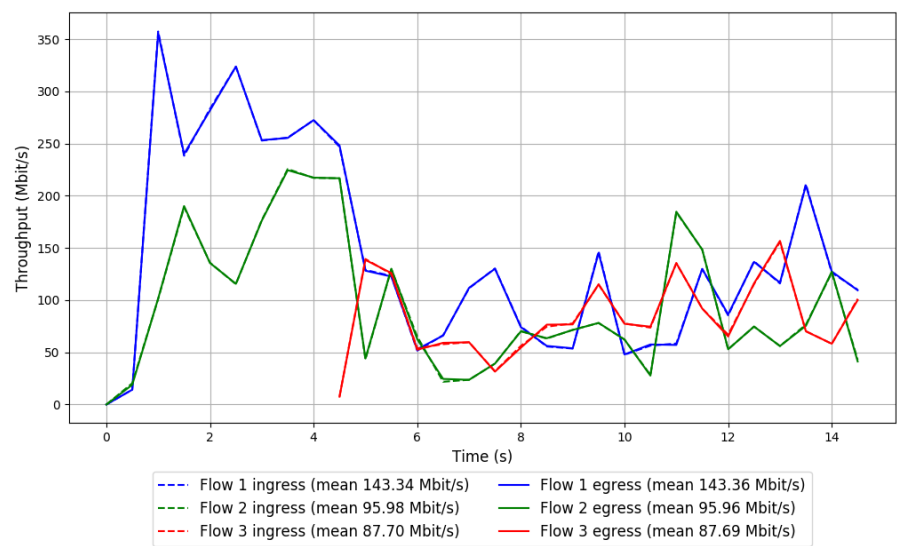
Start at: 2017-09-21 20:17:53

End at: 2017-09-21 20:18:23

Local clock offset: 0.062 ms

Remote clock offset: 0.555 ms

Run 3: Report of Verus — Data Link

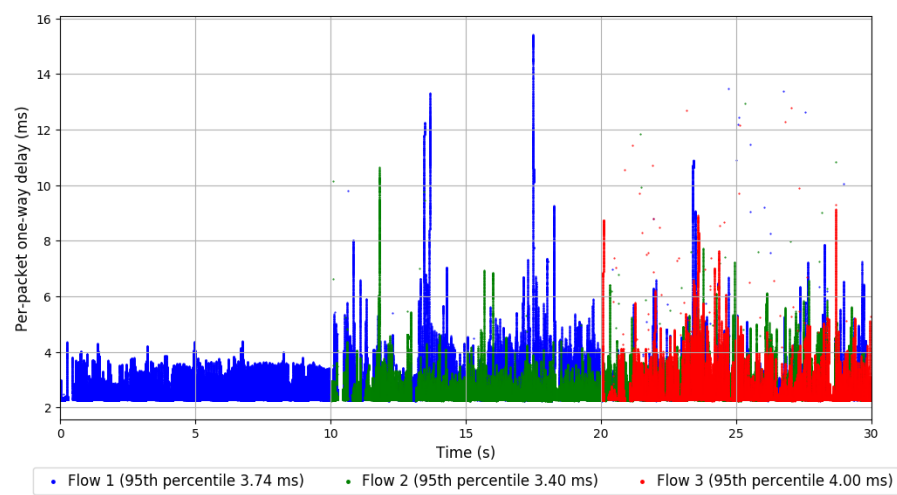
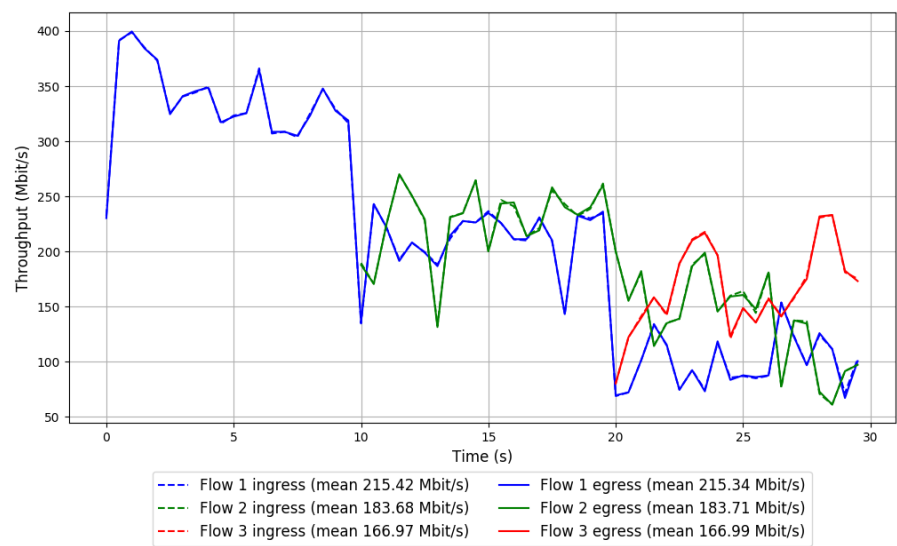


Run 4: Statistics of Verus

Start at: 2017-09-21 20:36:52
End at: 2017-09-21 20:37:22
Local clock offset: 0.084 ms
Remote clock offset: 0.691 ms

Below is generated by plot.py at 2017-09-22 03:24:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 392.96 Mbit/s
95th percentile per-packet one-way delay: 3.683 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 215.34 Mbit/s
95th percentile per-packet one-way delay: 3.741 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 183.71 Mbit/s
95th percentile per-packet one-way delay: 3.402 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 166.99 Mbit/s
95th percentile per-packet one-way delay: 4.000 ms
Loss rate: 0.07%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

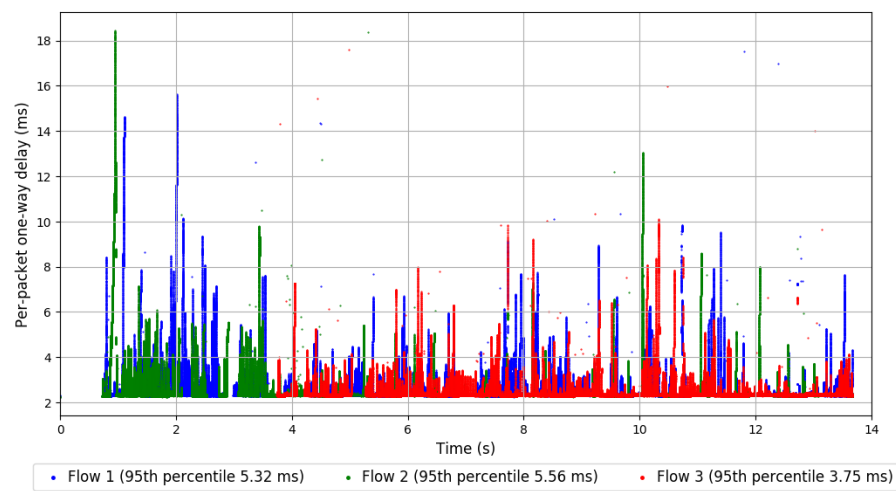
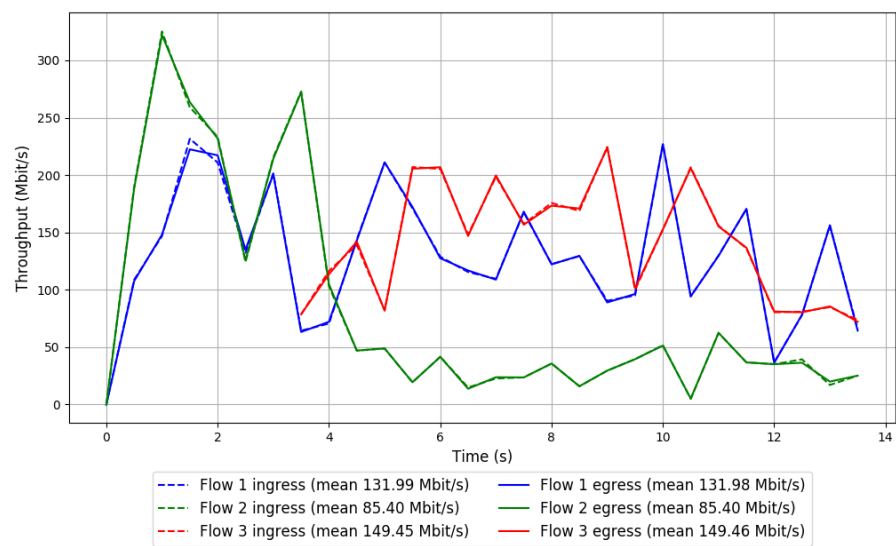
Start at: 2017-09-21 20:55:28

End at: 2017-09-21 20:55:58

Local clock offset: 0.036 ms

Remote clock offset: 0.804 ms

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2017-09-21 21:14:05

End at: 2017-09-21 21:14:35

Local clock offset: 0.052 ms

Remote clock offset: 0.86 ms

Below is generated by plot.py at 2017-09-22 03:24:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 337.15 Mbit/s

95th percentile per-packet one-way delay: 4.470 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 199.15 Mbit/s

95th percentile per-packet one-way delay: 4.378 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 150.12 Mbit/s

95th percentile per-packet one-way delay: 4.890 ms

Loss rate: 0.00%

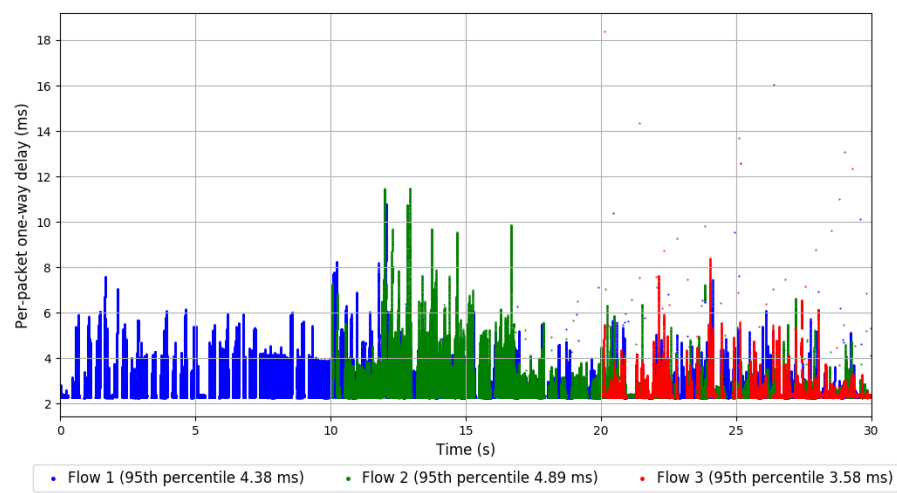
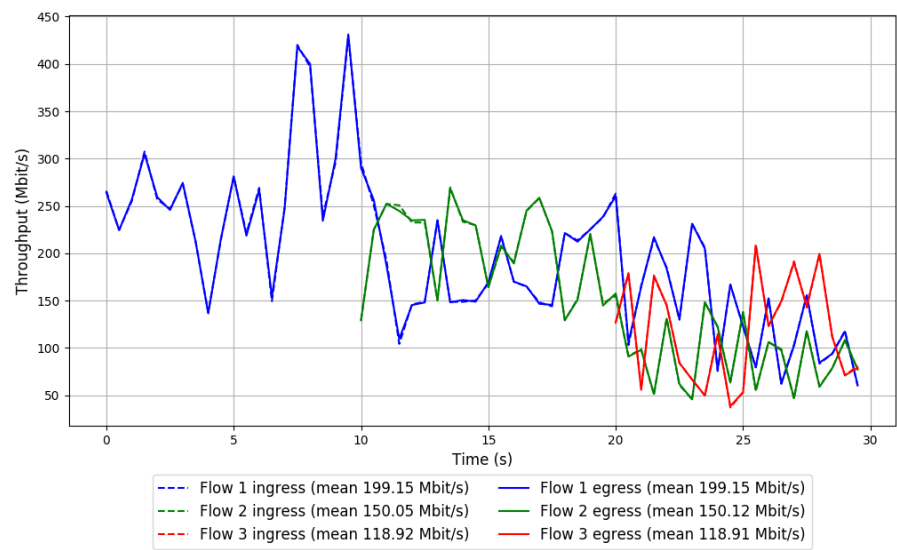
-- Flow 3:

Average throughput: 118.91 Mbit/s

95th percentile per-packet one-way delay: 3.585 ms

Loss rate: 0.10%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

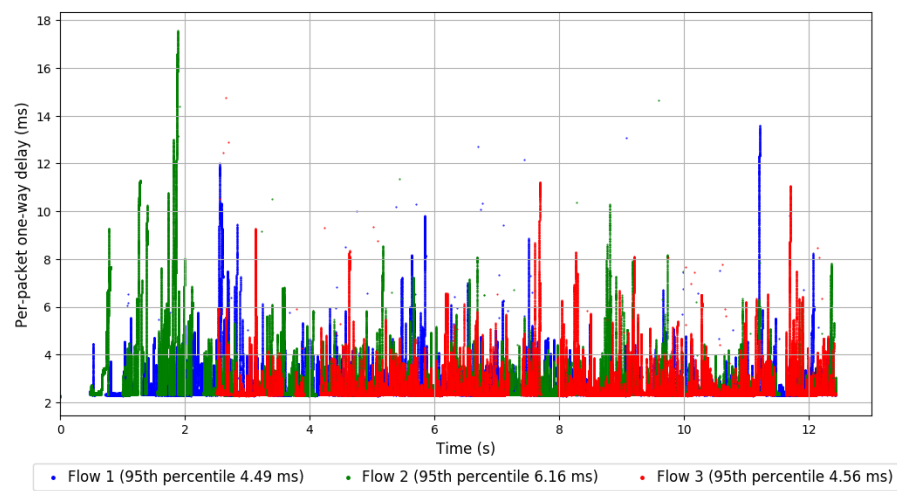
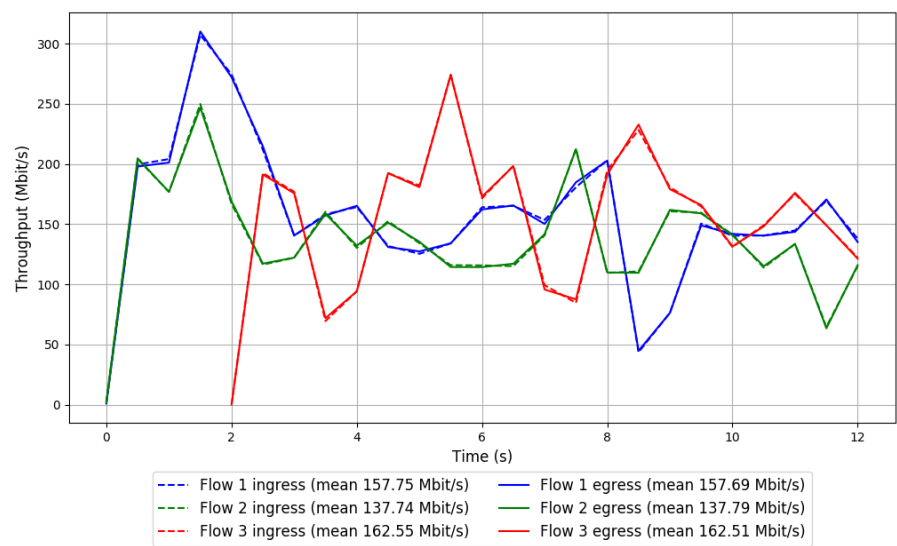
Start at: 2017-09-21 21:33:08

End at: 2017-09-21 21:33:38

Local clock offset: 0.017 ms

Remote clock offset: 0.759 ms

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

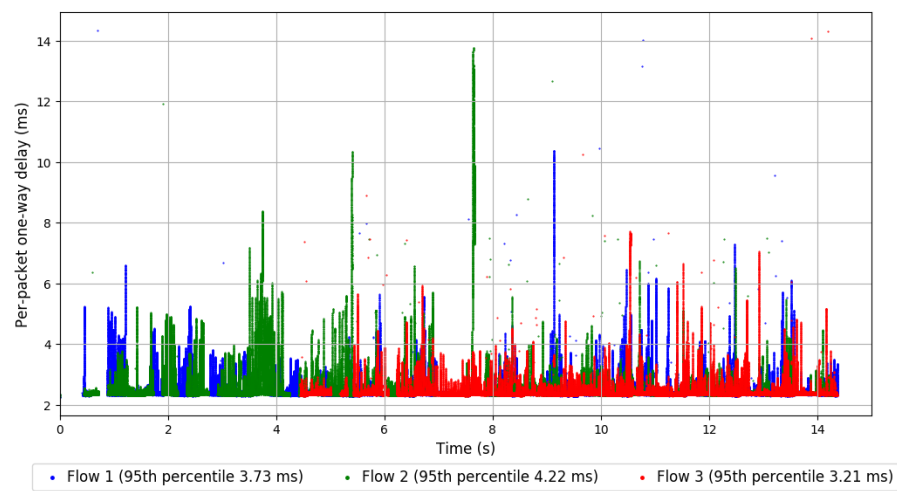
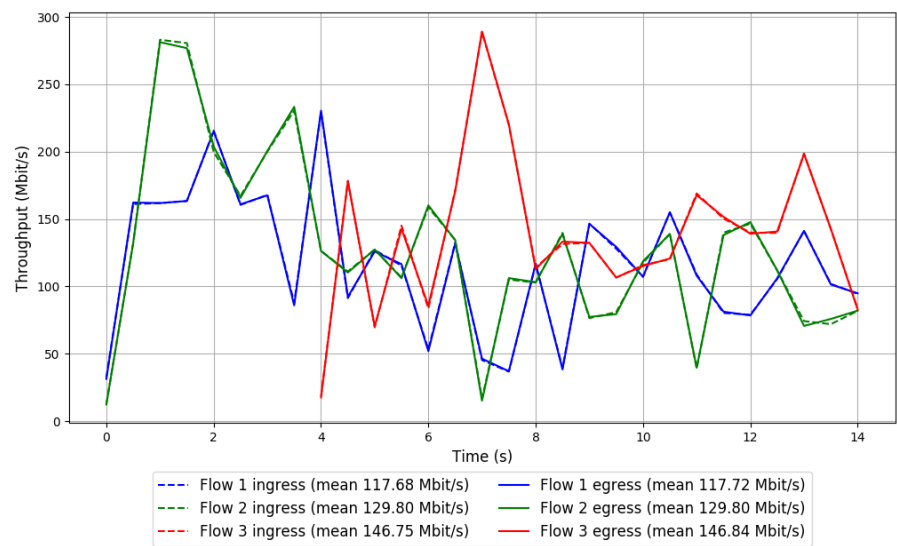
Start at: 2017-09-21 21:52:19

End at: 2017-09-21 21:52:49

Local clock offset: 0.039 ms

Remote clock offset: 0.75 ms

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

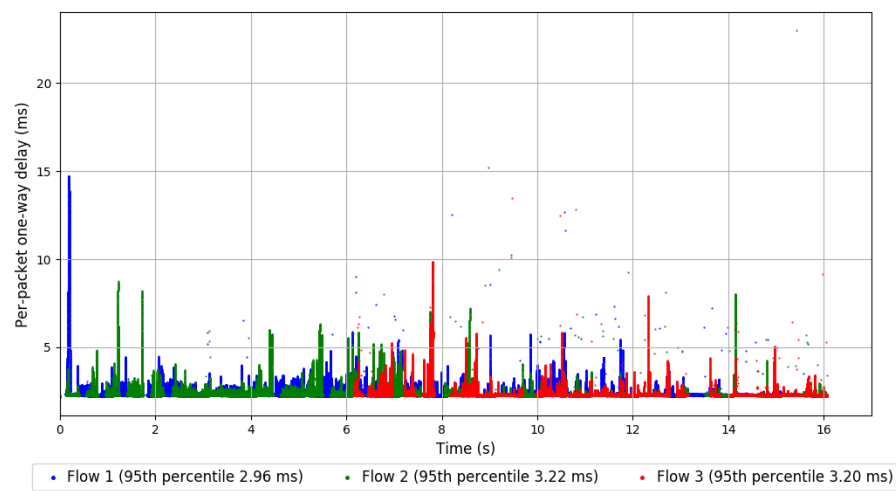
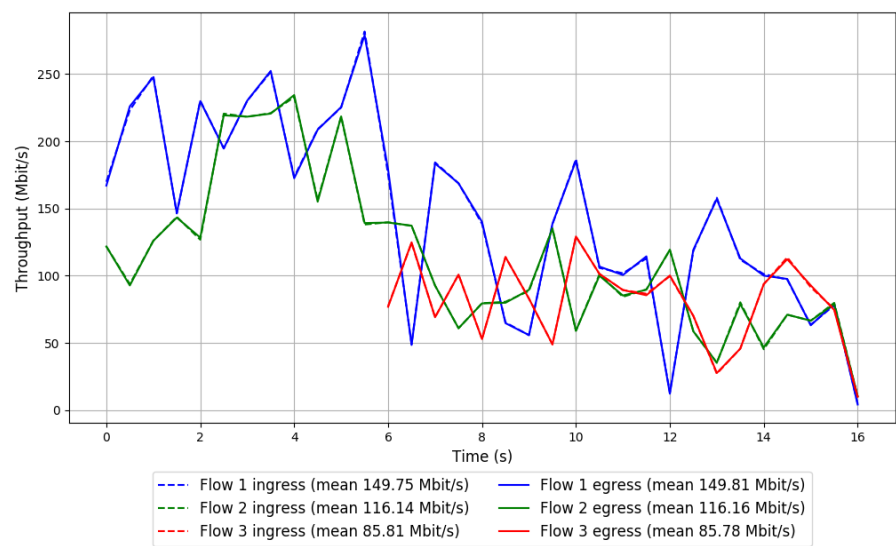
Start at: 2017-09-21 22:11:13

End at: 2017-09-21 22:11:43

Local clock offset: -0.038 ms

Remote clock offset: 0.71 ms

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2017-09-21 22:30:06

End at: 2017-09-21 22:30:36

Local clock offset: 0.003 ms

Remote clock offset: 0.468 ms

Below is generated by plot.py at 2017-09-22 03:25:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 393.39 Mbit/s

95th percentile per-packet one-way delay: 3.462 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 253.28 Mbit/s

95th percentile per-packet one-way delay: 3.218 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 142.34 Mbit/s

95th percentile per-packet one-way delay: 3.881 ms

Loss rate: 0.01%

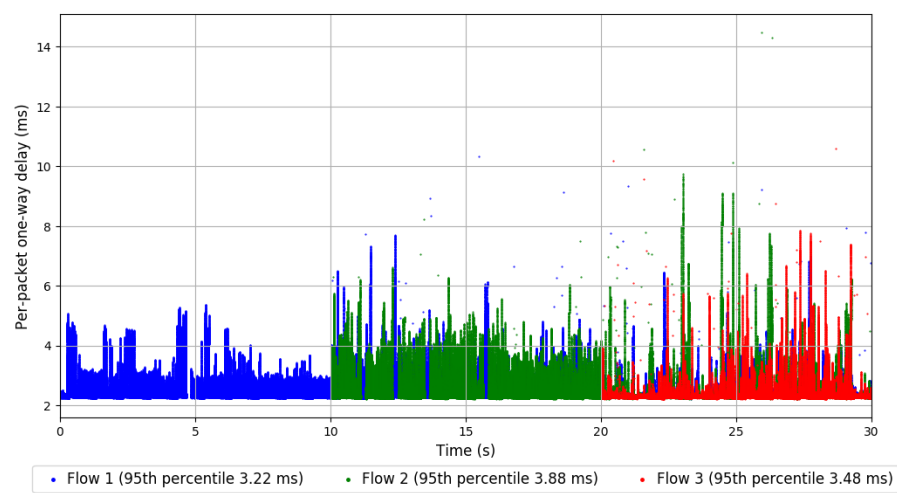
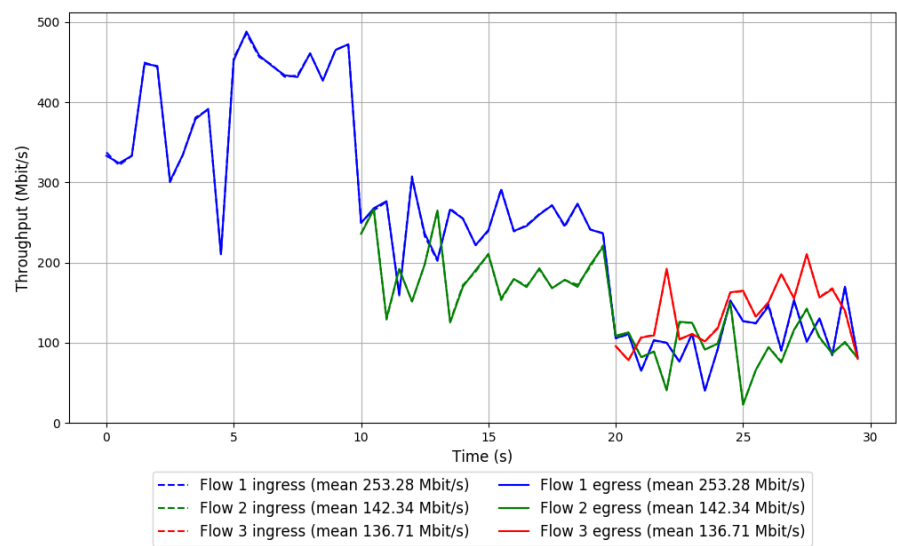
-- Flow 3:

Average throughput: 136.71 Mbit/s

95th percentile per-packet one-way delay: 3.484 ms

Loss rate: 0.04%

Run 10: Report of Verus — Data Link

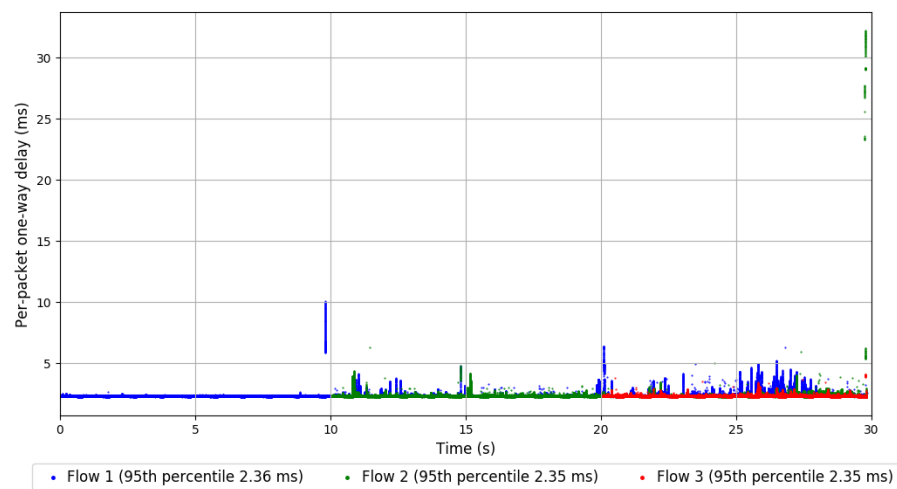
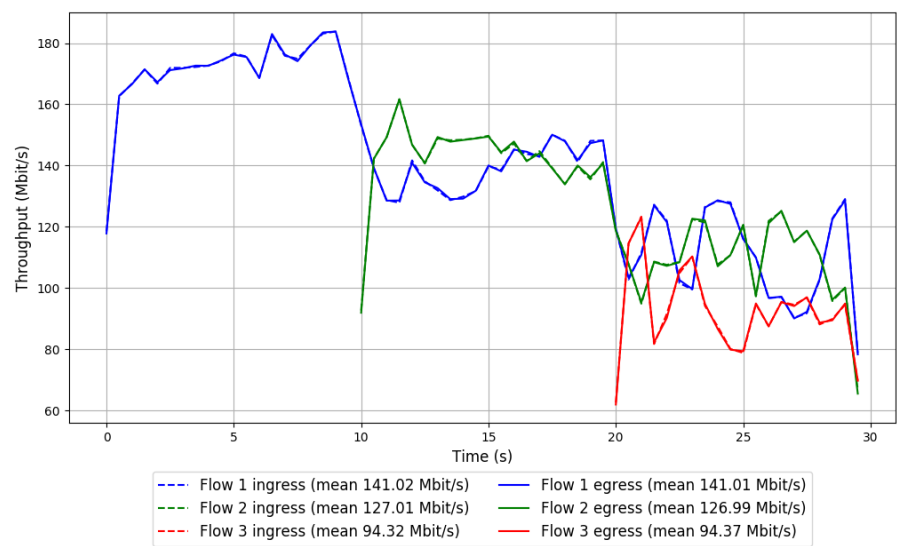


Run 1: Statistics of Indigo

Start at: 2017-09-21 19:25:59
End at: 2017-09-21 19:26:29
Local clock offset: -0.01 ms
Remote clock offset: -0.007 ms

Below is generated by plot.py at 2017-09-22 03:25:41
Datalink statistics
-- Total of 3 flows:
Average throughput: 256.06 Mbit/s
95th percentile per-packet one-way delay: 2.355 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 141.01 Mbit/s
95th percentile per-packet one-way delay: 2.361 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 126.99 Mbit/s
95th percentile per-packet one-way delay: 2.351 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 94.37 Mbit/s
95th percentile per-packet one-way delay: 2.346 ms
Loss rate: 0.00%

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2017-09-21 19:44:57

End at: 2017-09-21 19:45:27

Local clock offset: 0.015 ms

Remote clock offset: 0.154 ms

Below is generated by plot.py at 2017-09-22 03:25:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 256.40 Mbit/s

95th percentile per-packet one-way delay: 2.366 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 142.55 Mbit/s

95th percentile per-packet one-way delay: 2.349 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 123.79 Mbit/s

95th percentile per-packet one-way delay: 2.366 ms

Loss rate: 0.01%

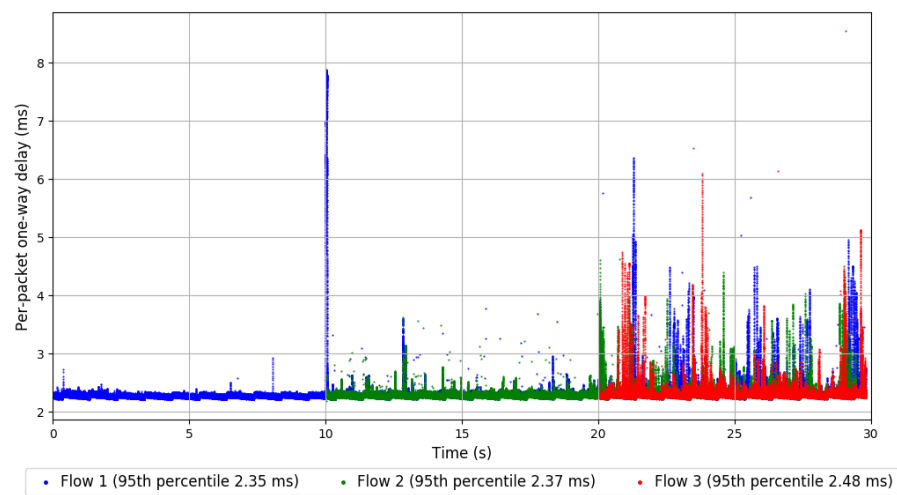
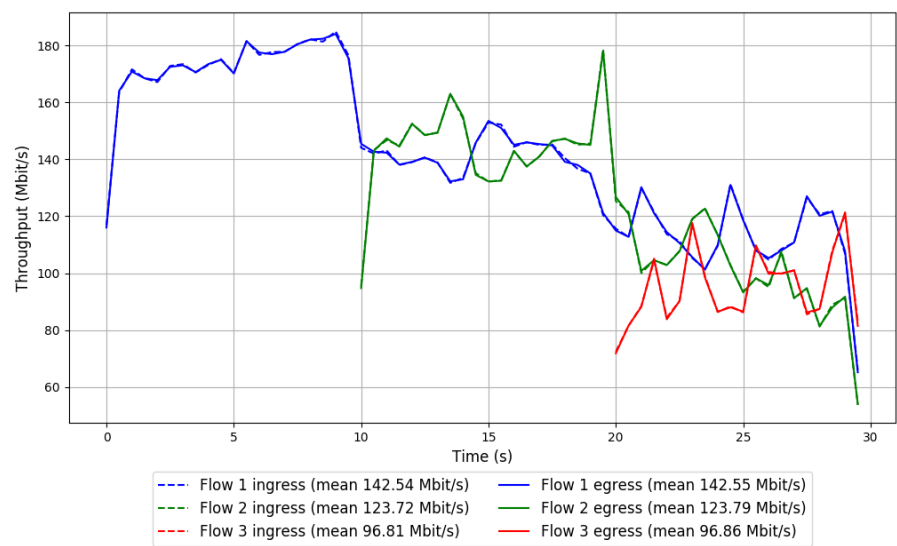
-- Flow 3:

Average throughput: 96.86 Mbit/s

95th percentile per-packet one-way delay: 2.475 ms

Loss rate: 0.07%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2017-09-21 20:03:38

End at: 2017-09-21 20:04:08

Local clock offset: 0.057 ms

Remote clock offset: 0.307 ms

Below is generated by plot.py at 2017-09-22 03:25:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 255.92 Mbit/s

95th percentile per-packet one-way delay: 2.434 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 142.69 Mbit/s

95th percentile per-packet one-way delay: 2.409 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 125.08 Mbit/s

95th percentile per-packet one-way delay: 2.477 ms

Loss rate: 0.02%

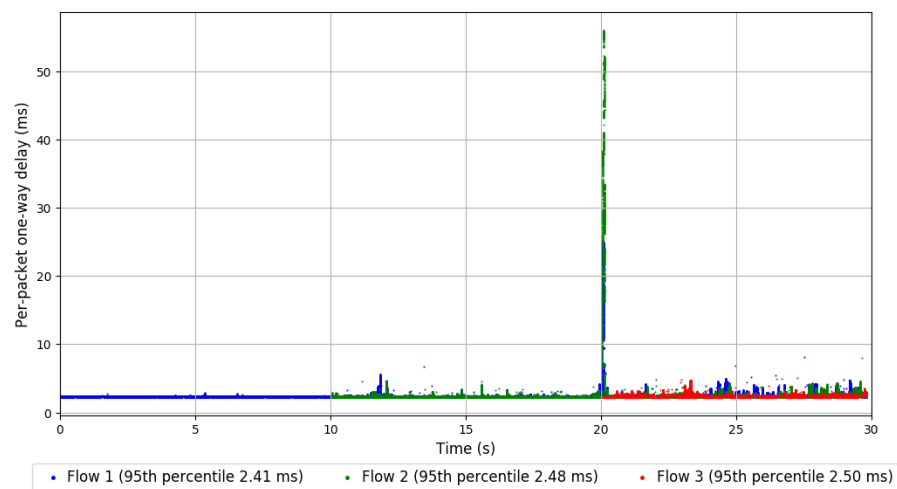
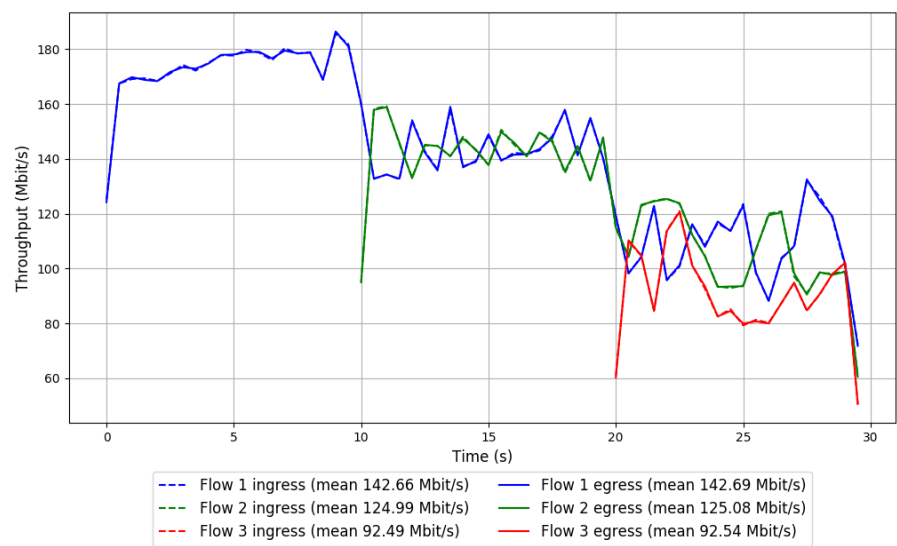
-- Flow 3:

Average throughput: 92.54 Mbit/s

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

Loss rate: 0.01%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2017-09-21 20:22:24

End at: 2017-09-21 20:22:54

Local clock offset: 0.051 ms

Remote clock offset: 0.496 ms

Below is generated by plot.py at 2017-09-22 03:25:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 254.90 Mbit/s

95th percentile per-packet one-way delay: 2.435 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 143.37 Mbit/s

95th percentile per-packet one-way delay: 2.409 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 126.62 Mbit/s

95th percentile per-packet one-way delay: 2.471 ms

Loss rate: 0.01%

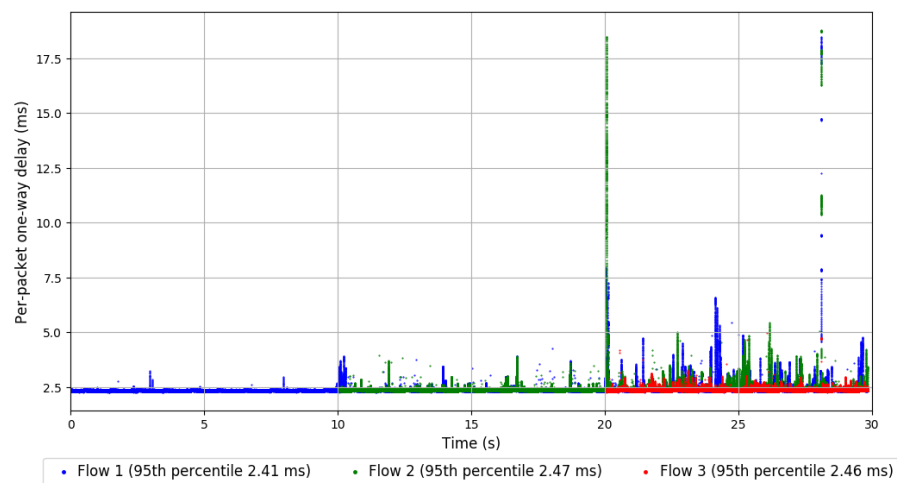
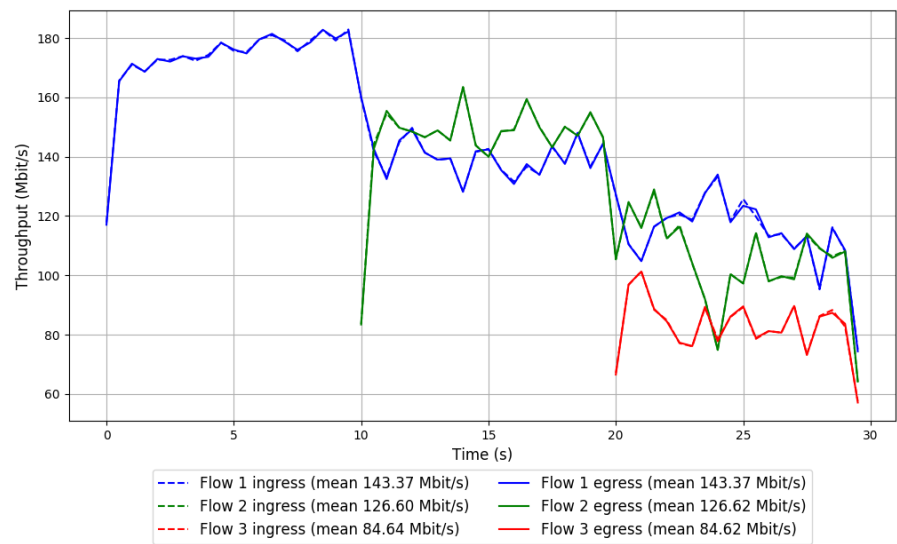
-- Flow 3:

Average throughput: 84.62 Mbit/s

95th percentile per-packet one-way delay: 2.456 ms

Loss rate: 0.06%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2017-09-21 20:41:12

End at: 2017-09-21 20:41:42

Local clock offset: 0.049 ms

Remote clock offset: 0.7 ms

Below is generated by plot.py at 2017-09-22 03:26:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 257.03 Mbit/s

95th percentile per-packet one-way delay: 2.402 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 146.57 Mbit/s

95th percentile per-packet one-way delay: 2.393 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 130.12 Mbit/s

95th percentile per-packet one-way delay: 2.416 ms

Loss rate: 0.04%

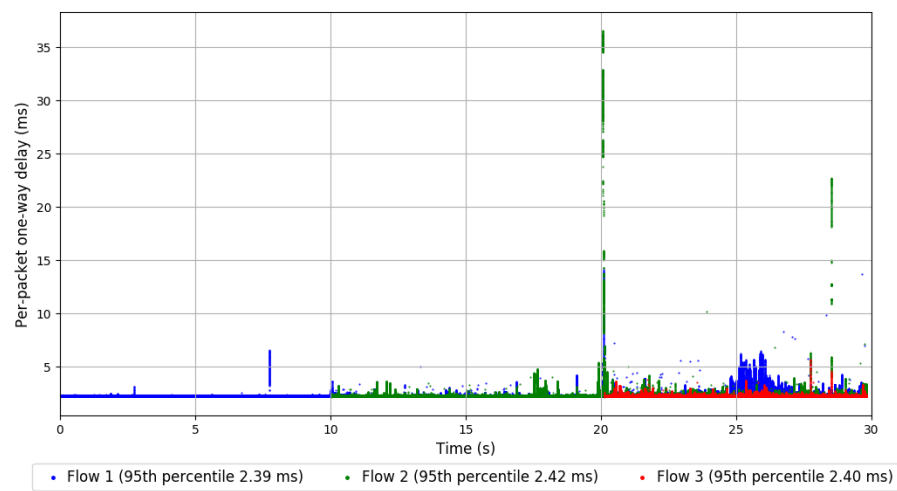
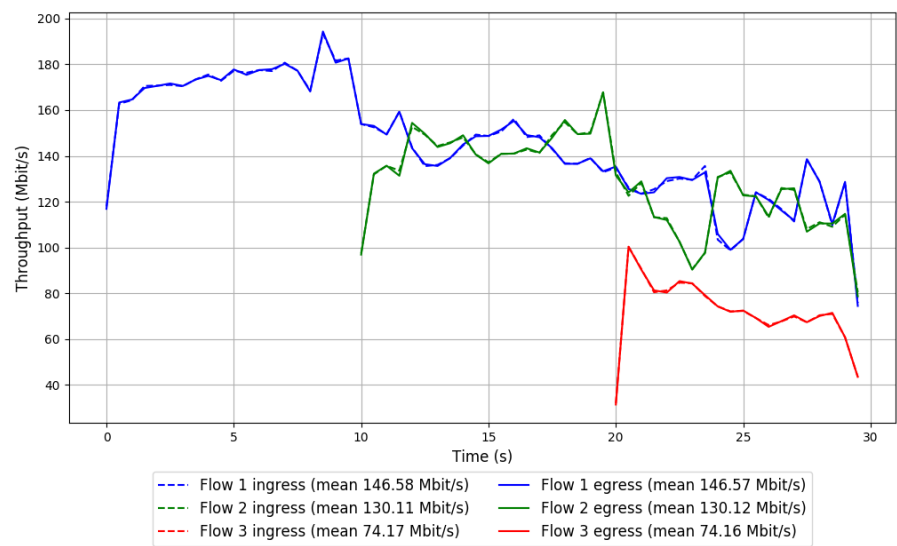
-- Flow 3:

Average throughput: 74.16 Mbit/s

95th percentile per-packet one-way delay: 2.402 ms

Loss rate: 0.01%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2017-09-21 20:59:58

End at: 2017-09-21 21:00:28

Local clock offset: -0.03 ms

Remote clock offset: 0.772 ms

Below is generated by plot.py at 2017-09-22 03:27:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 254.24 Mbit/s

95th percentile per-packet one-way delay: 2.384 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 141.89 Mbit/s

95th percentile per-packet one-way delay: 2.376 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 126.89 Mbit/s

95th percentile per-packet one-way delay: 2.397 ms

Loss rate: 0.02%

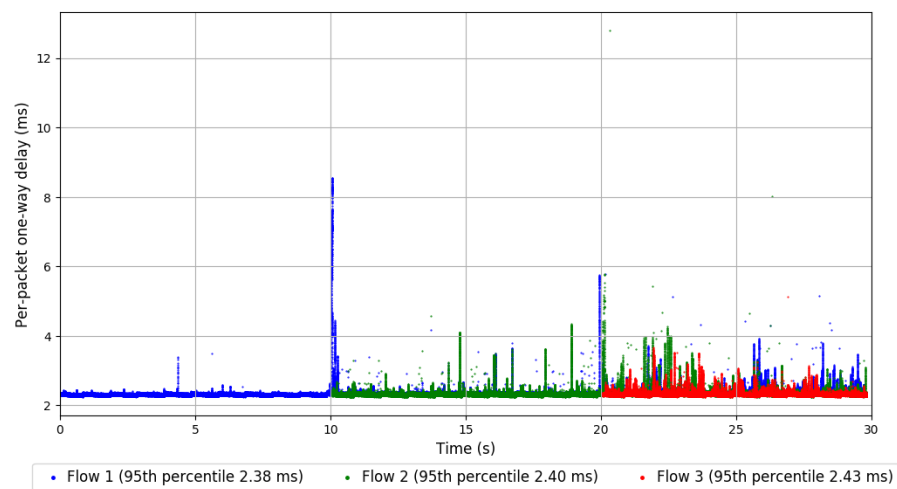
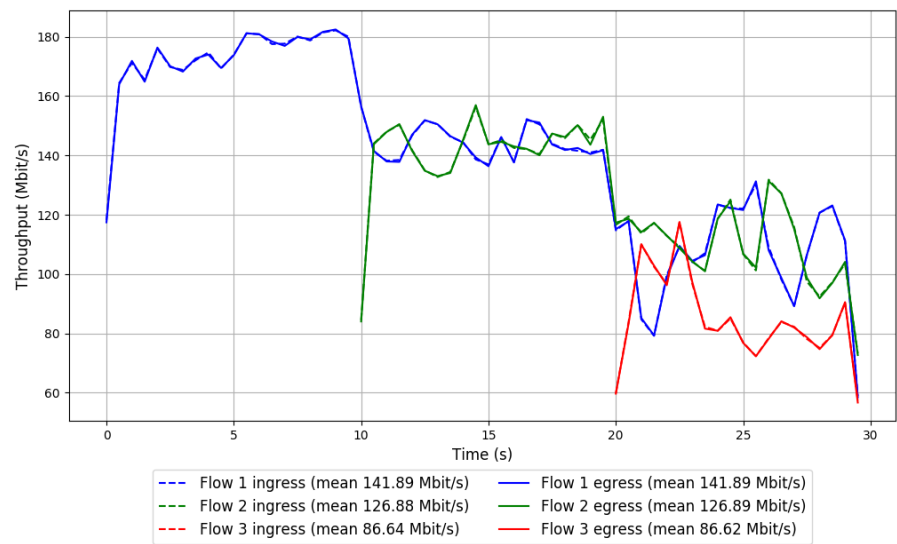
-- Flow 3:

Average throughput: 86.62 Mbit/s

95th percentile per-packet one-way delay: 2.434 ms

Loss rate: 0.06%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2017-09-21 21:18:45

End at: 2017-09-21 21:19:15

Local clock offset: 0.035 ms

Remote clock offset: 0.787 ms

Below is generated by plot.py at 2017-09-22 03:28:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 256.36 Mbit/s

95th percentile per-packet one-way delay: 2.461 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 140.88 Mbit/s

95th percentile per-packet one-way delay: 2.466 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 125.97 Mbit/s

95th percentile per-packet one-way delay: 2.460 ms

Loss rate: 0.03%

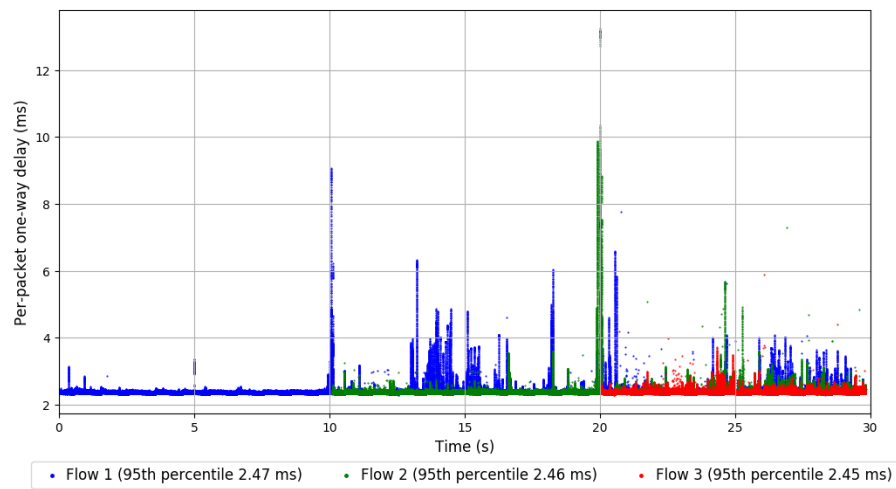
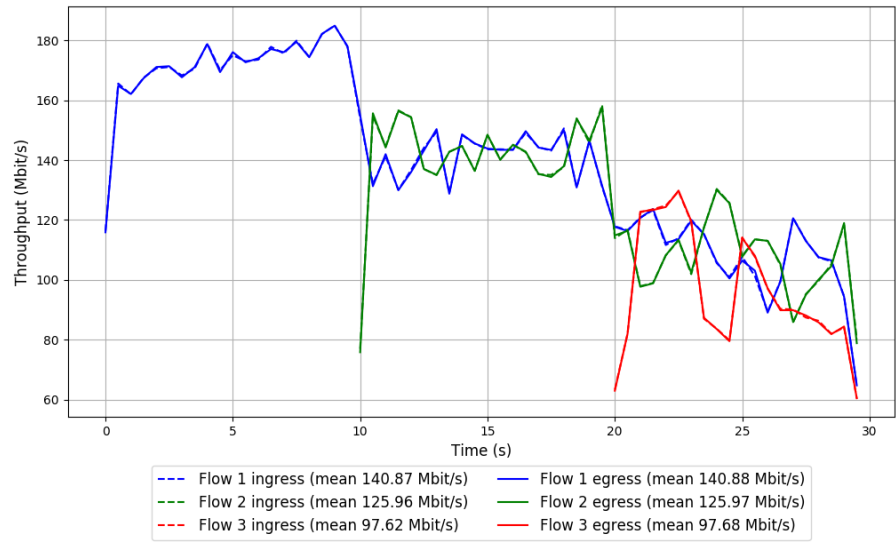
-- Flow 3:

Average throughput: 97.68 Mbit/s

95th percentile per-packet one-way delay: 2.450 ms

Loss rate: 0.02%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2017-09-21 21:37:40

End at: 2017-09-21 21:38:10

Local clock offset: -0.0 ms

Remote clock offset: 0.798 ms

Below is generated by plot.py at 2017-09-22 03:28:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 258.35 Mbit/s

95th percentile per-packet one-way delay: 2.333 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 144.79 Mbit/s

95th percentile per-packet one-way delay: 2.313 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 128.74 Mbit/s

95th percentile per-packet one-way delay: 2.347 ms

Loss rate: 0.02%

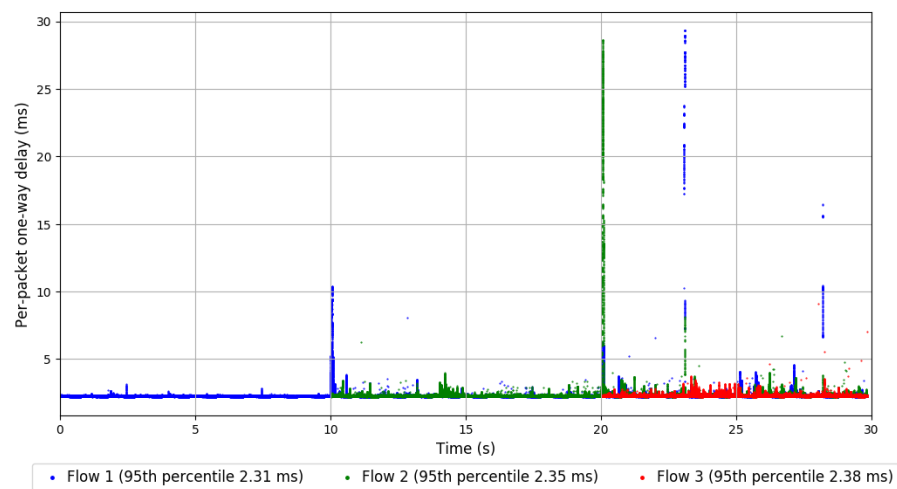
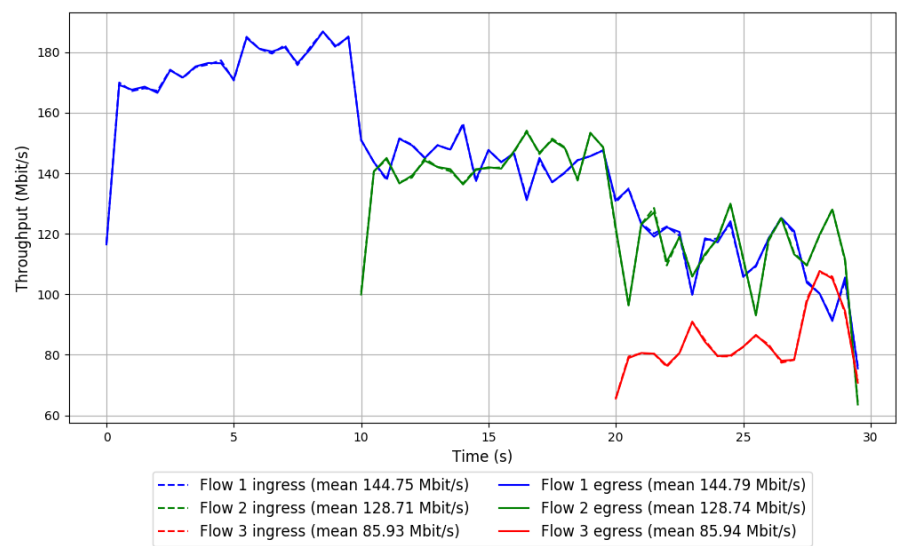
-- Flow 3:

Average throughput: 85.94 Mbit/s

95th percentile per-packet one-way delay: 2.375 ms

Loss rate: 0.06%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2017-09-21 21:56:51

End at: 2017-09-21 21:57:21

Local clock offset: 0.03 ms

Remote clock offset: 0.81 ms

Below is generated by plot.py at 2017-09-22 03:29:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 252.09 Mbit/s

95th percentile per-packet one-way delay: 2.361 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 142.69 Mbit/s

95th percentile per-packet one-way delay: 2.354 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 124.27 Mbit/s

95th percentile per-packet one-way delay: 2.383 ms

Loss rate: 0.04%

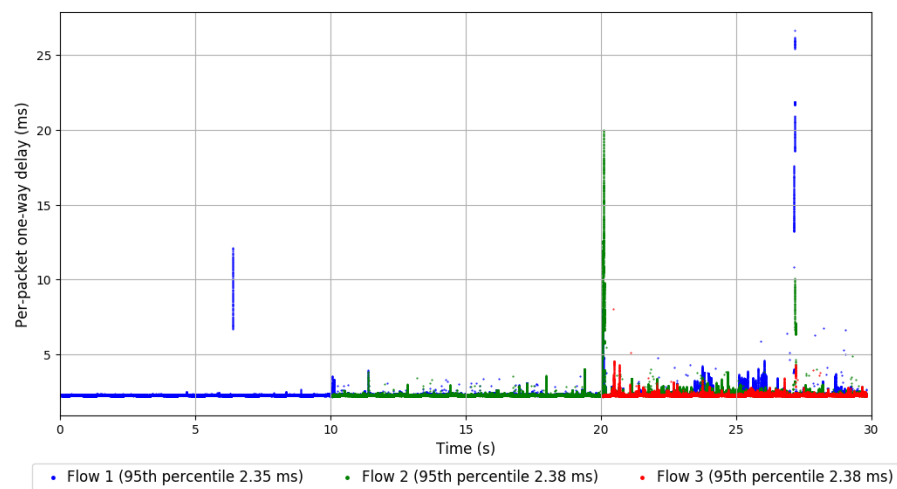
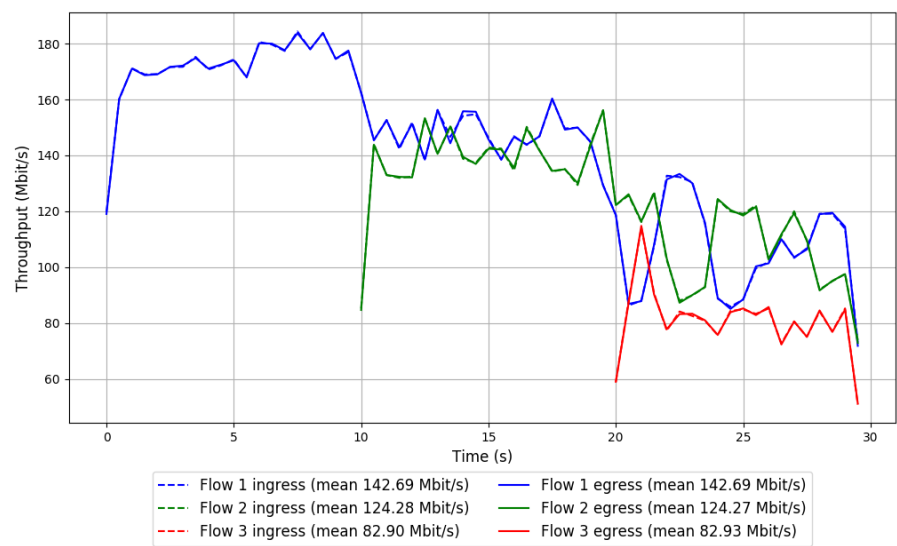
-- Flow 3:

Average throughput: 82.93 Mbit/s

95th percentile per-packet one-way delay: 2.381 ms

Loss rate: 0.01%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2017-09-21 22:15:44

End at: 2017-09-21 22:16:14

Local clock offset: -0.025 ms

Remote clock offset: 0.769 ms

Below is generated by plot.py at 2017-09-22 03:29:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 253.15 Mbit/s

95th percentile per-packet one-way delay: 2.235 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 146.33 Mbit/s

95th percentile per-packet one-way delay: 2.230 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 128.36 Mbit/s

95th percentile per-packet one-way delay: 2.248 ms

Loss rate: 0.00%

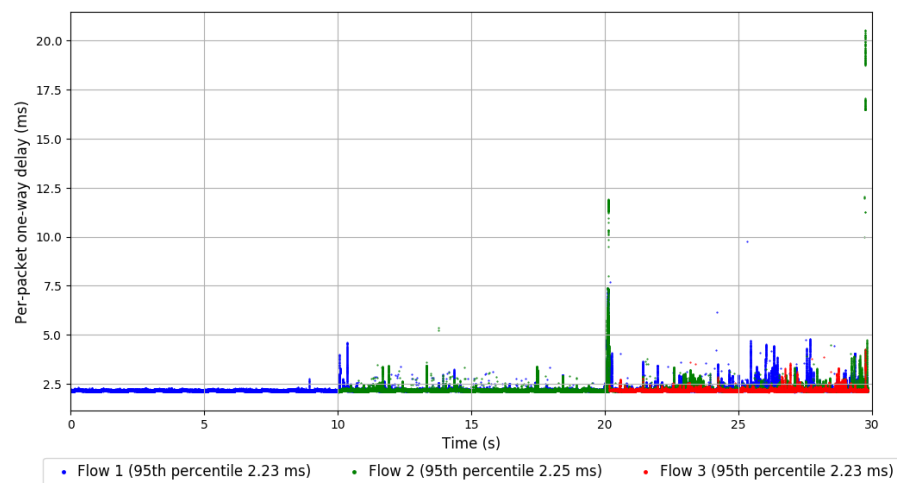
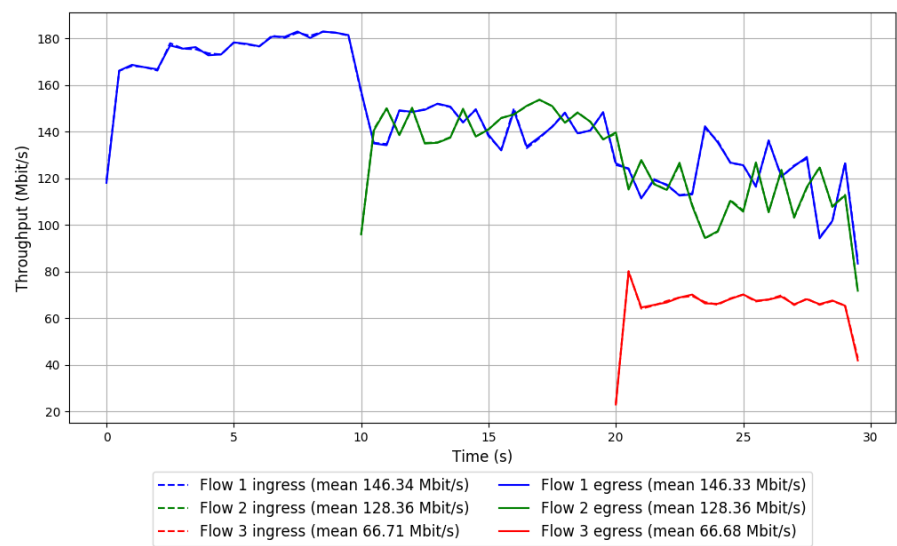
-- Flow 3:

Average throughput: 66.68 Mbit/s

95th percentile per-packet one-way delay: 2.229 ms

Loss rate: 0.09%

Run 10: Report of Indigo — Data Link

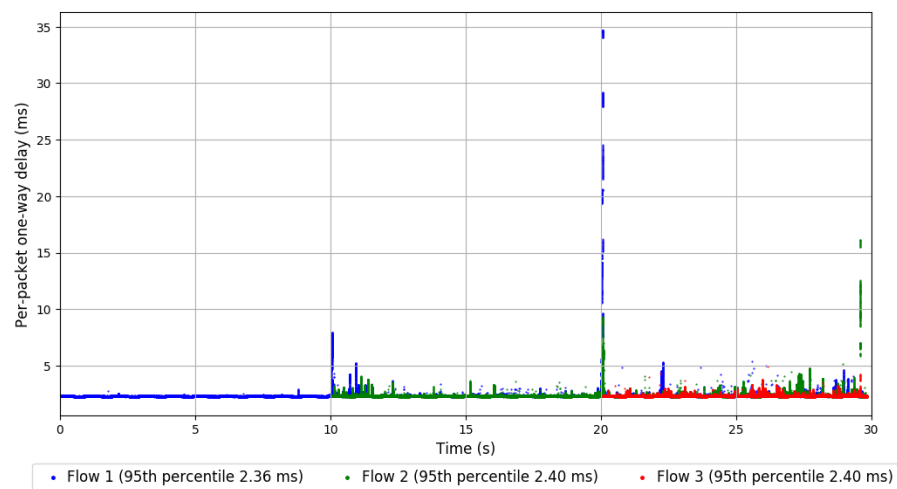
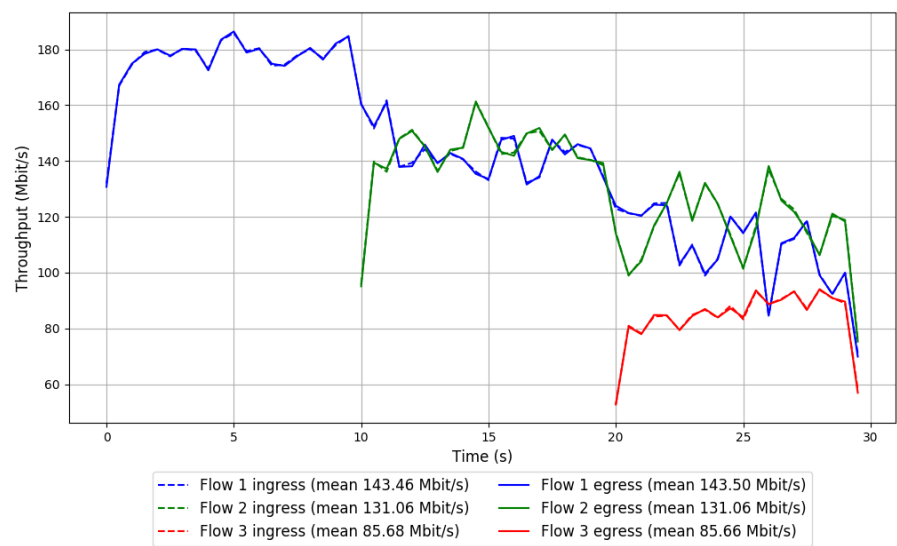


```
Run 1: Statistics of Indigo-calib

Start at: 2017-09-21 19:32:25
End at: 2017-09-21 19:32:55
Local clock offset: 0.009 ms
Remote clock offset: 0.016 ms

# Below is generated by plot.py at 2017-09-22 03:29:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 258.27 Mbit/s
95th percentile per-packet one-way delay: 2.373 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 143.50 Mbit/s
95th percentile per-packet one-way delay: 2.363 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 131.06 Mbit/s
95th percentile per-packet one-way delay: 2.400 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 85.66 Mbit/s
95th percentile per-packet one-way delay: 2.404 ms
Loss rate: 0.07%
```


Run 1: Report of Indigo-calib — Data Link

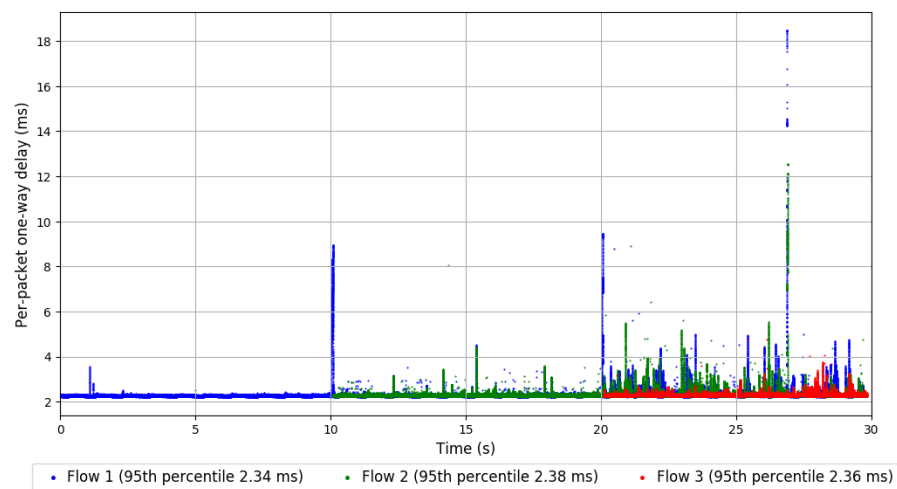
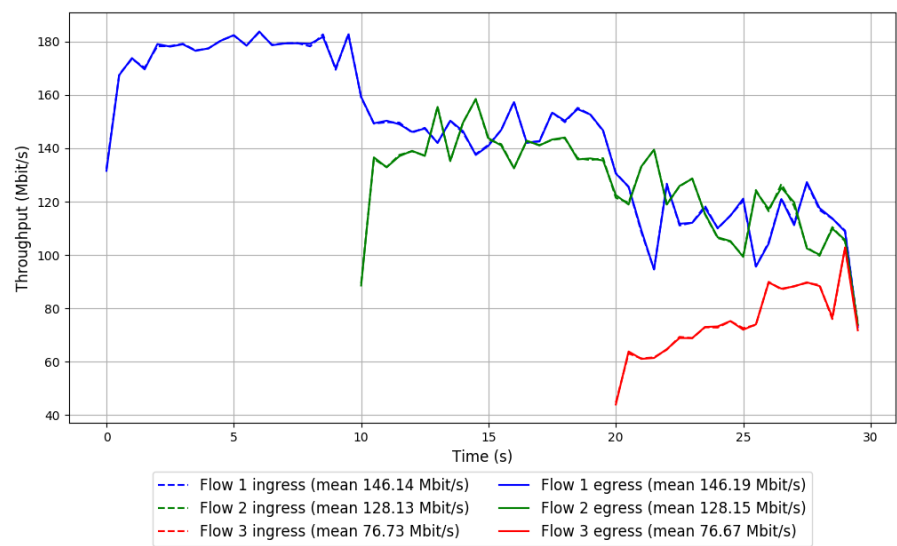


```
Run 2: Statistics of Indigo-calib

Start at: 2017-09-21 19:51:20
End at: 2017-09-21 19:51:50
Local clock offset: 0.009 ms
Remote clock offset: 0.213 ms

# Below is generated by plot.py at 2017-09-22 03:29:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 256.03 Mbit/s
95th percentile per-packet one-way delay: 2.355 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 146.19 Mbit/s
95th percentile per-packet one-way delay: 2.339 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 128.15 Mbit/s
95th percentile per-packet one-way delay: 2.382 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 76.67 Mbit/s
95th percentile per-packet one-way delay: 2.364 ms
Loss rate: 0.10%
```

Run 2: Report of Indigo-calib — Data Link



Run 3: Statistics of Indigo-calib

Start at: 2017-09-21 20:09:55

End at: 2017-09-21 20:10:25

Local clock offset: 0.051 ms

Remote clock offset: 0.352 ms

Below is generated by plot.py at 2017-09-22 03:29:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 260.66 Mbit/s

95th percentile per-packet one-way delay: 2.483 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 144.48 Mbit/s

95th percentile per-packet one-way delay: 2.443 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 129.01 Mbit/s

95th percentile per-packet one-way delay: 2.541 ms

Loss rate: 0.02%

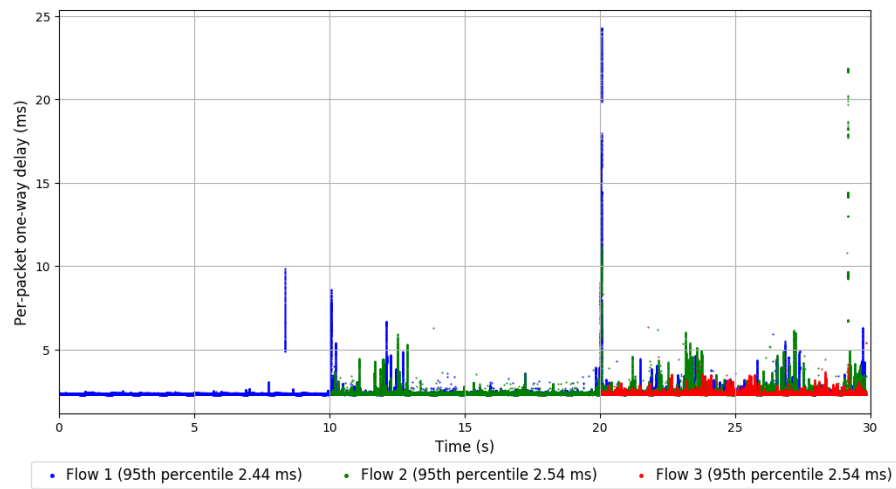
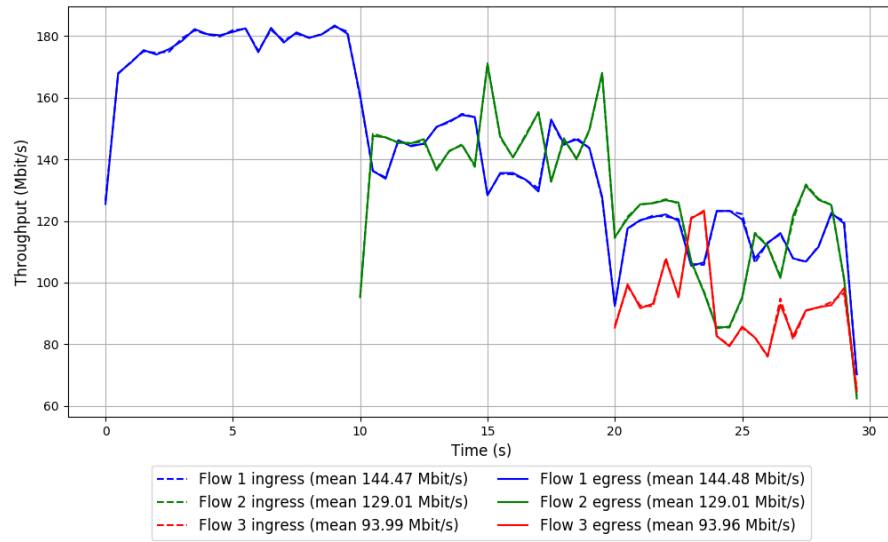
-- Flow 3:

Average throughput: 93.96 Mbit/s

95th percentile per-packet one-way delay: 2.544 ms

Loss rate: 0.05%

Run 3: Report of Indigo-calib — Data Link



Run 4: Statistics of Indigo-calib

Start at: 2017-09-21 20:28:52

End at: 2017-09-21 20:29:22

Local clock offset: 0.023 ms

Remote clock offset: 0.624 ms

Below is generated by plot.py at 2017-09-22 03:31:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 259.83 Mbit/s

95th percentile per-packet one-way delay: 2.318 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 141.70 Mbit/s

95th percentile per-packet one-way delay: 2.292 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 125.32 Mbit/s

95th percentile per-packet one-way delay: 2.340 ms

Loss rate: 0.03%

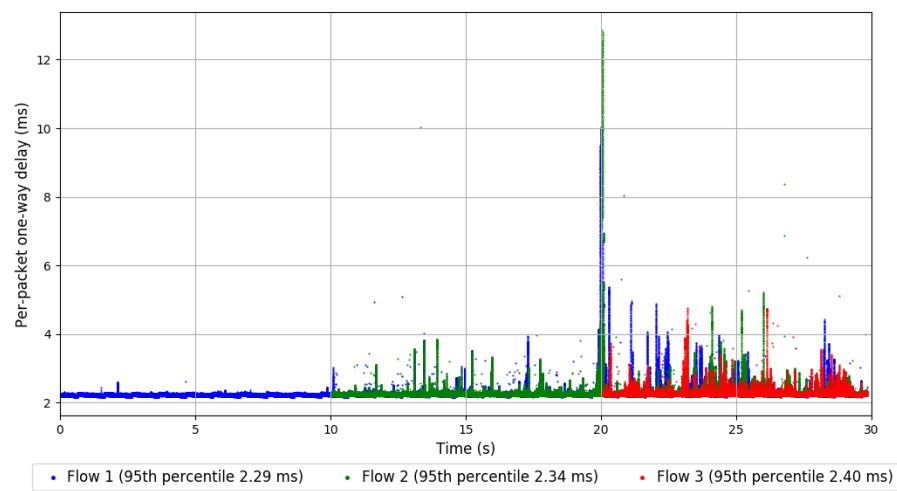
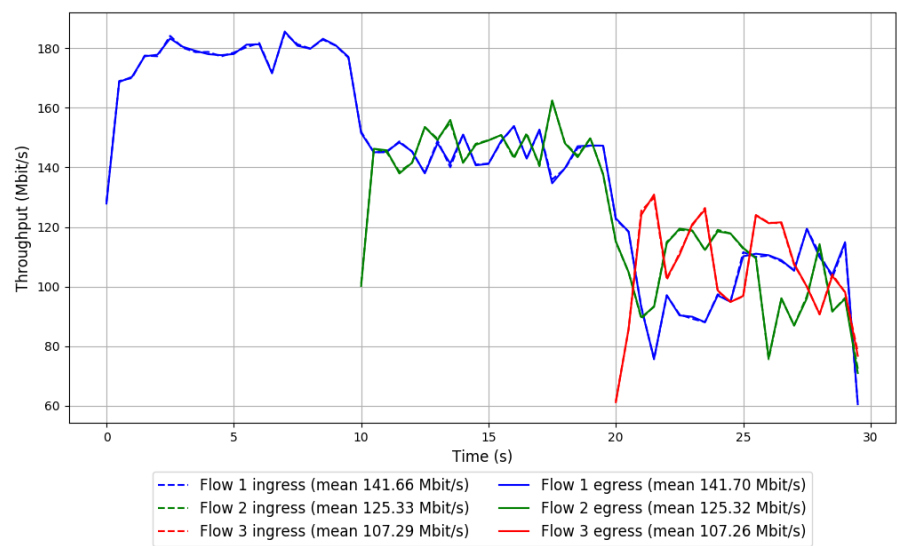
-- Flow 3:

Average throughput: 107.26 Mbit/s

95th percentile per-packet one-way delay: 2.403 ms

Loss rate: 0.08%

Run 4: Report of Indigo-calib — Data Link



Run 5: Statistics of Indigo-calib

Start at: 2017-09-21 20:47:30

End at: 2017-09-21 20:48:00

Local clock offset: 0.049 ms

Remote clock offset: 0.735 ms

Below is generated by plot.py at 2017-09-22 03:31:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 261.12 Mbit/s

95th percentile per-packet one-way delay: 2.371 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 144.23 Mbit/s

95th percentile per-packet one-way delay: 2.365 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 123.29 Mbit/s

95th percentile per-packet one-way delay: 2.385 ms

Loss rate: 0.01%

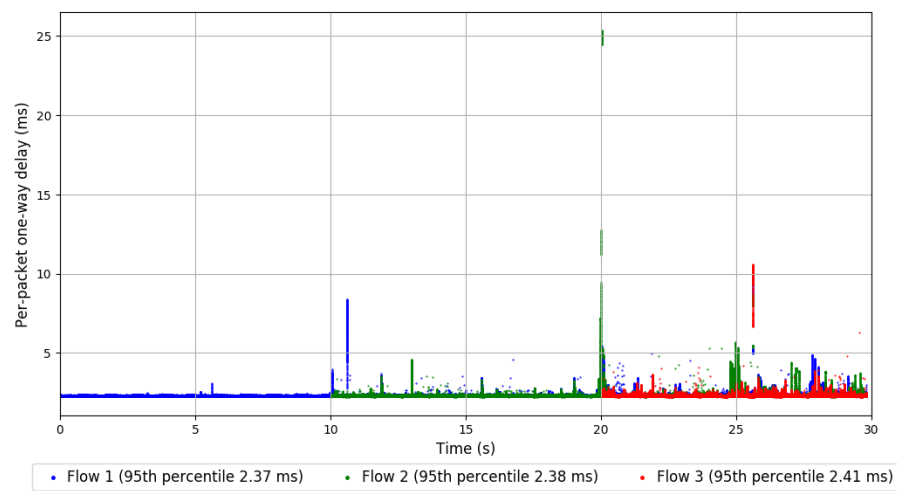
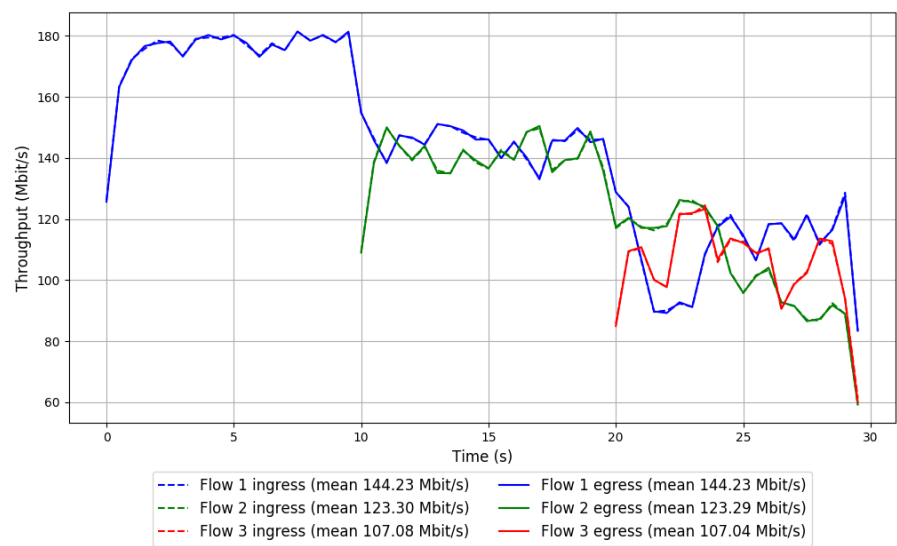
-- Flow 3:

Average throughput: 107.04 Mbit/s

95th percentile per-packet one-way delay: 2.412 ms

Loss rate: 0.08%

Run 5: Report of Indigo-calib — Data Link



Run 6: Statistics of Indigo-calib

Start at: 2017-09-21 21:06:16

End at: 2017-09-21 21:06:46

Local clock offset: 0.018 ms

Remote clock offset: 0.832 ms

Below is generated by plot.py at 2017-09-22 03:32:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 254.24 Mbit/s

95th percentile per-packet one-way delay: 2.426 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 143.61 Mbit/s

95th percentile per-packet one-way delay: 2.386 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 126.39 Mbit/s

95th percentile per-packet one-way delay: 2.510 ms

Loss rate: 0.02%

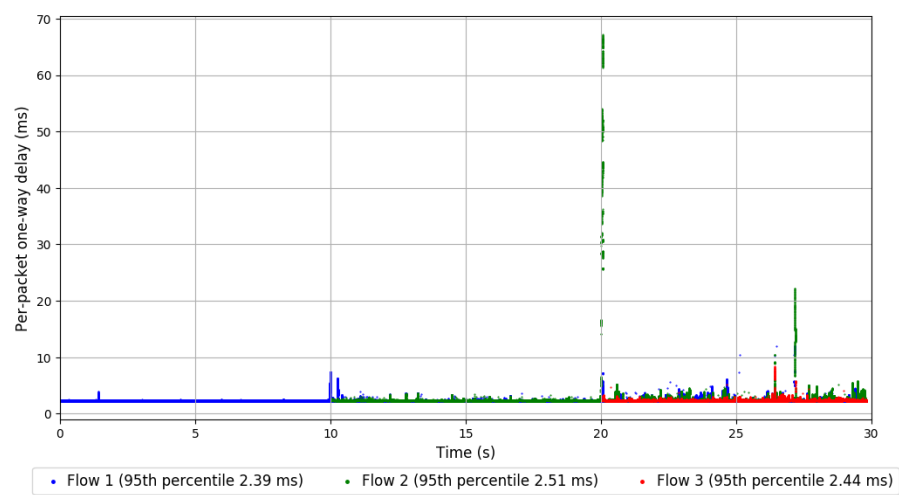
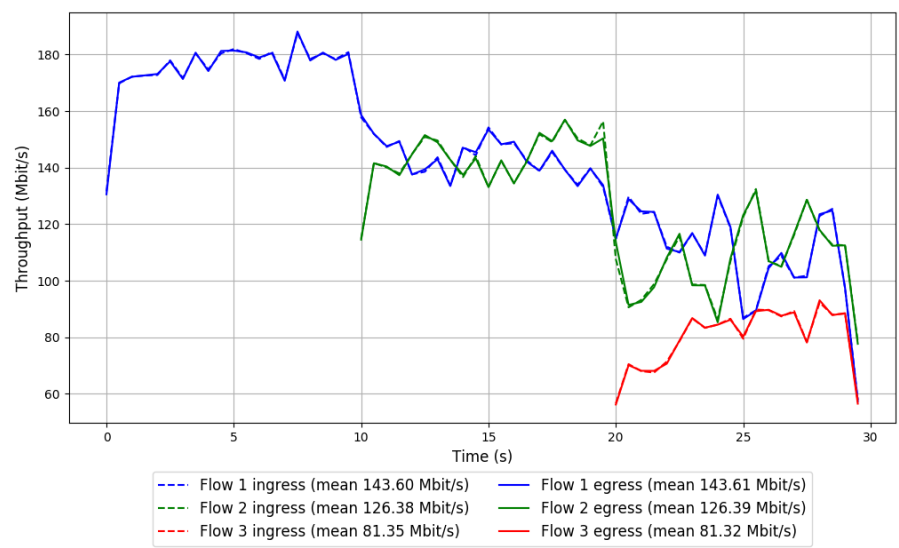
-- Flow 3:

Average throughput: 81.32 Mbit/s

95th percentile per-packet one-way delay: 2.441 ms

Loss rate: 0.07%

Run 6: Report of Indigo-calib — Data Link



Run 7: Statistics of Indigo-calib

Start at: 2017-09-21 21:25:12

End at: 2017-09-21 21:25:42

Local clock offset: 0.009 ms

Remote clock offset: 0.834 ms

Below is generated by plot.py at 2017-09-22 03:32:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 262.06 Mbit/s

95th percentile per-packet one-way delay: 2.379 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 143.55 Mbit/s

95th percentile per-packet one-way delay: 2.353 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 129.03 Mbit/s

95th percentile per-packet one-way delay: 2.387 ms

Loss rate: 0.05%

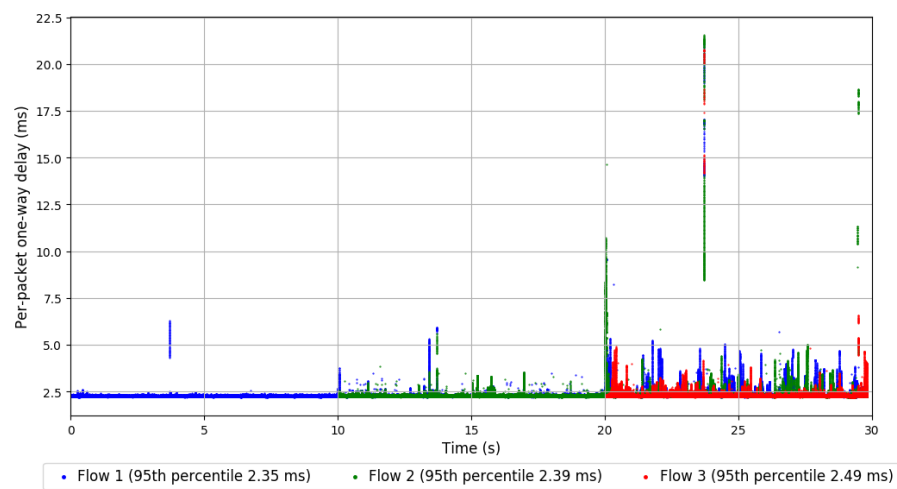
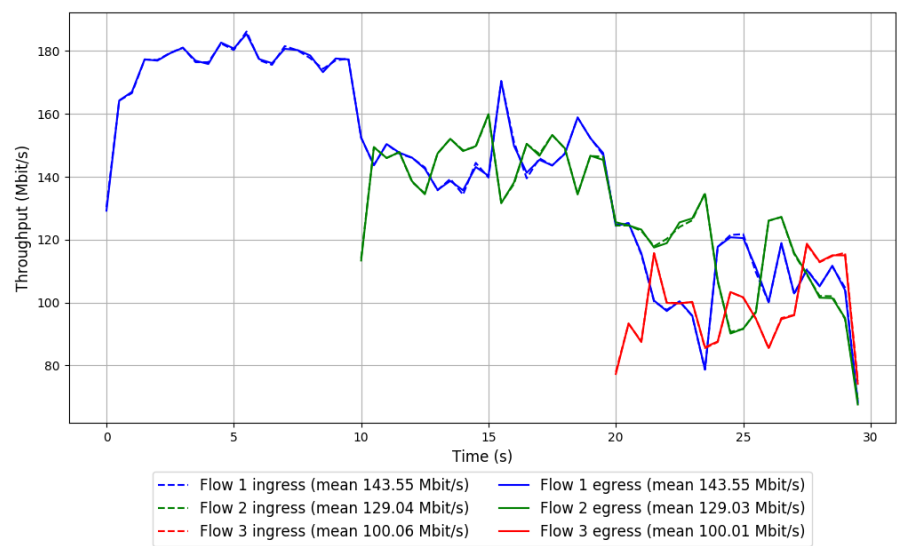
-- Flow 3:

Average throughput: 100.01 Mbit/s

95th percentile per-packet one-way delay: 2.492 ms

Loss rate: 0.09%

Run 7: Report of Indigo-calib — Data Link



Run 8: Statistics of Indigo-calib

Start at: 2017-09-21 21:44:02

End at: 2017-09-21 21:44:32

Local clock offset: 0.022 ms

Remote clock offset: 0.79 ms

Below is generated by plot.py at 2017-09-22 03:32:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 257.70 Mbit/s

95th percentile per-packet one-way delay: 2.382 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 143.48 Mbit/s

95th percentile per-packet one-way delay: 2.363 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 120.70 Mbit/s

95th percentile per-packet one-way delay: 2.389 ms

Loss rate: 0.03%

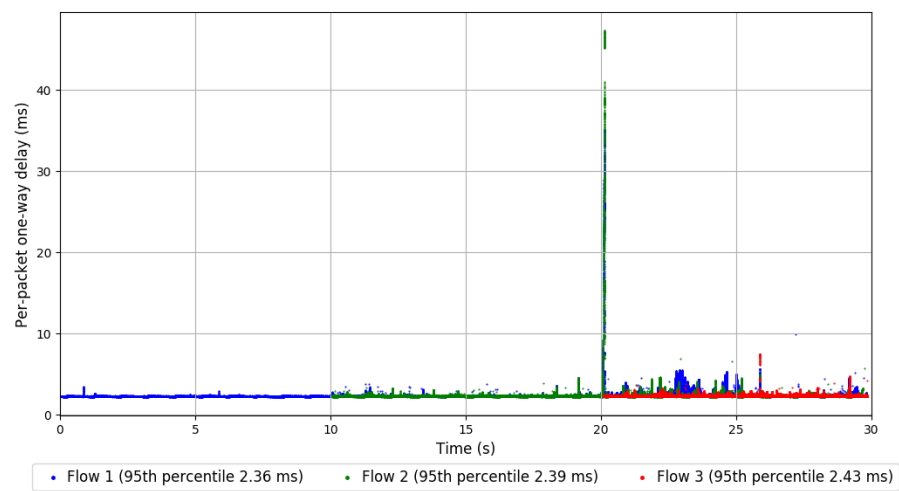
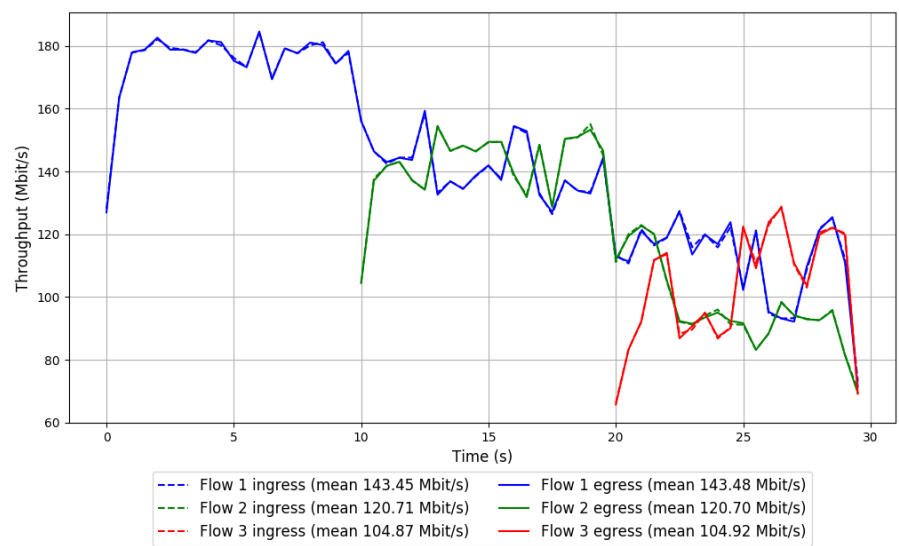
-- Flow 3:

Average throughput: 104.92 Mbit/s

95th percentile per-packet one-way delay: 2.431 ms

Loss rate: 0.07%

Run 8: Report of Indigo-calib — Data Link



Run 9: Statistics of Indigo-calib

Start at: 2017-09-21 22:03:16

End at: 2017-09-21 22:03:46

Local clock offset: -0.0 ms

Remote clock offset: 0.719 ms

Below is generated by plot.py at 2017-09-22 03:32:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 258.11 Mbit/s

95th percentile per-packet one-way delay: 2.394 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 141.38 Mbit/s

95th percentile per-packet one-way delay: 2.357 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 124.94 Mbit/s

95th percentile per-packet one-way delay: 2.444 ms

Loss rate: 0.02%

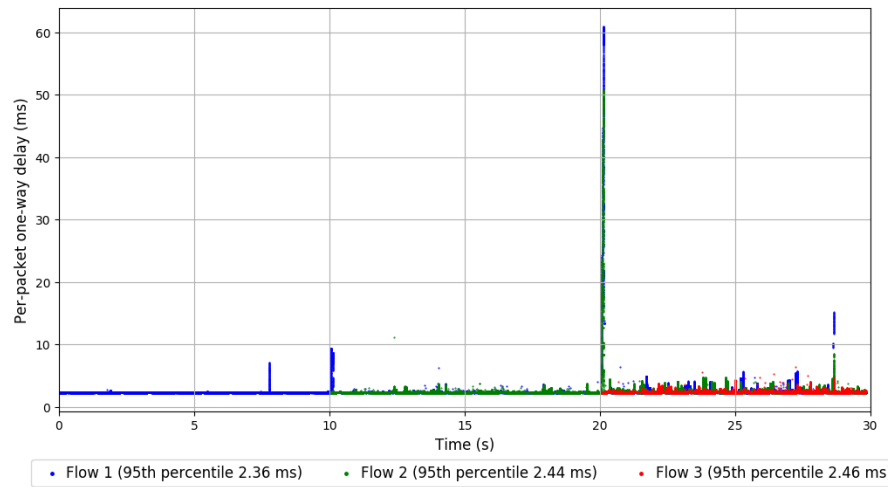
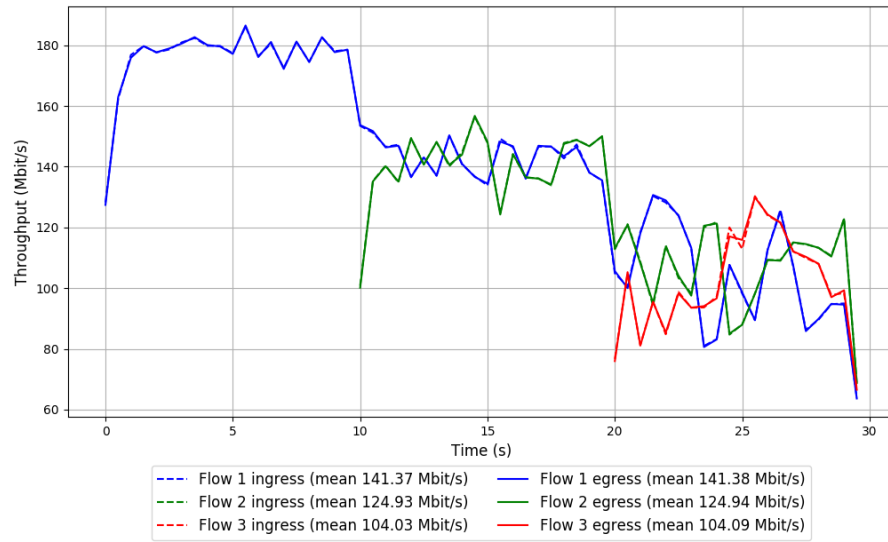
-- Flow 3:

Average throughput: 104.09 Mbit/s

95th percentile per-packet one-way delay: 2.462 ms

Loss rate: 0.00%

Run 9: Report of Indigo-calib — Data Link



Run 10: Statistics of Indigo-calib

Start at: 2017-09-21 22:22:09

End at: 2017-09-21 22:22:39

Local clock offset: -0.026 ms

Remote clock offset: 0.615 ms

Below is generated by plot.py at 2017-09-22 03:32:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 259.05 Mbit/s

95th percentile per-packet one-way delay: 2.288 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 144.59 Mbit/s

95th percentile per-packet one-way delay: 2.273 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 120.96 Mbit/s

95th percentile per-packet one-way delay: 2.324 ms

Loss rate: 0.03%

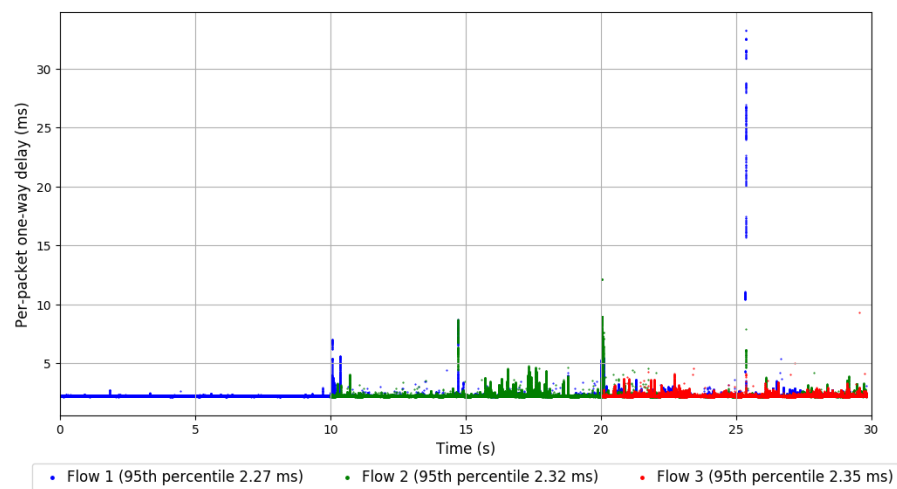
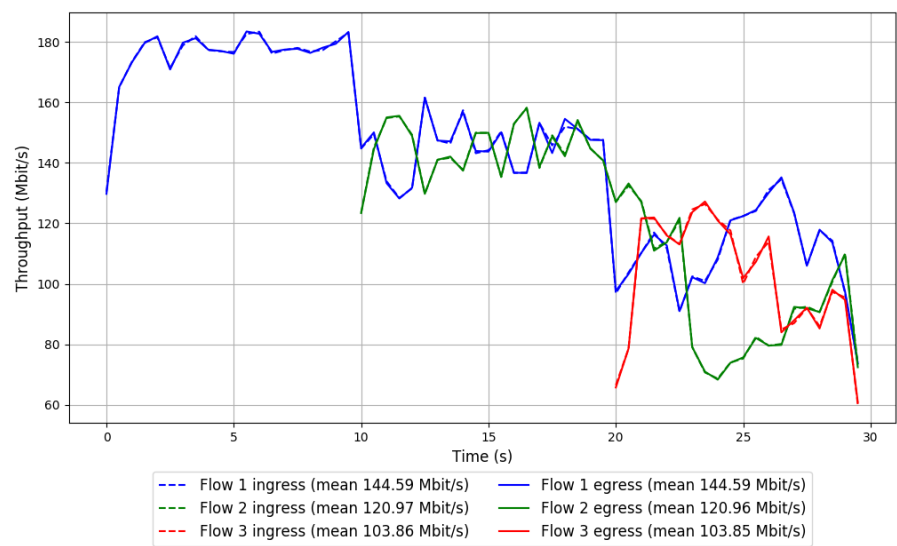
-- Flow 3:

Average throughput: 103.85 Mbit/s

95th percentile per-packet one-way delay: 2.348 ms

Loss rate: 0.00%

Run 10: Report of Indigo-calib — Data Link

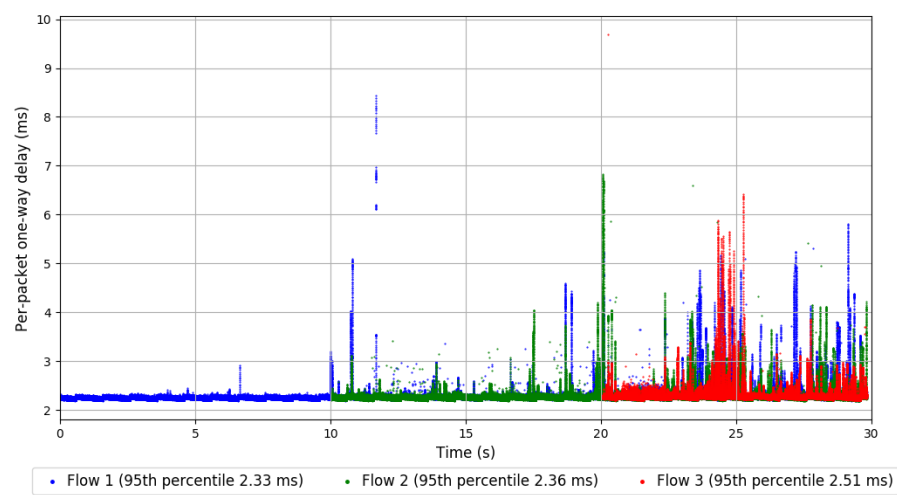
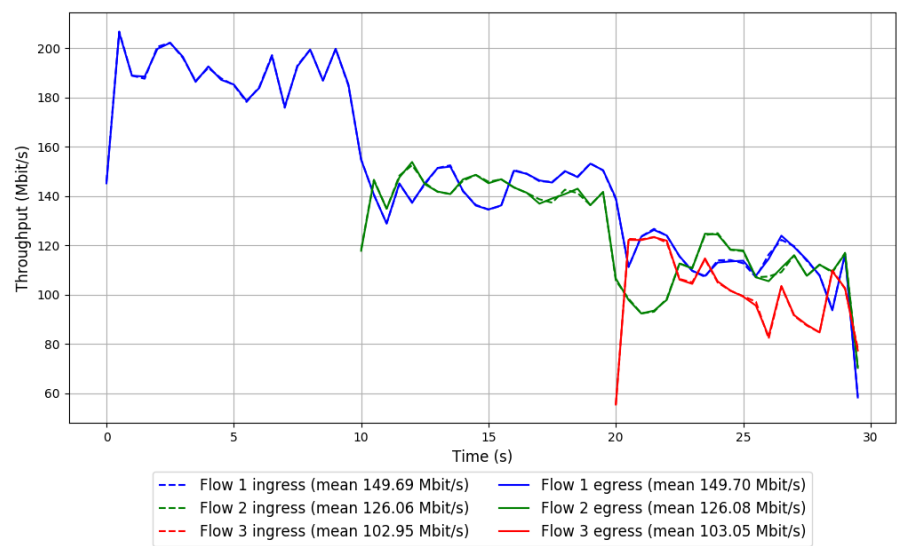


```
Run 1: Statistics of Indigo-delay

Start at: 2017-09-21 19:36:15
End at: 2017-09-21 19:36:45
Local clock offset: -0.012 ms
Remote clock offset: 0.065 ms

# Below is generated by plot.py at 2017-09-22 03:33:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 267.12 Mbit/s
95th percentile per-packet one-way delay: 2.358 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 149.70 Mbit/s
95th percentile per-packet one-way delay: 2.328 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 126.08 Mbit/s
95th percentile per-packet one-way delay: 2.360 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 103.05 Mbit/s
95th percentile per-packet one-way delay: 2.512 ms
Loss rate: 0.05%
```

Run 1: Report of Indigo-delay — Data Link

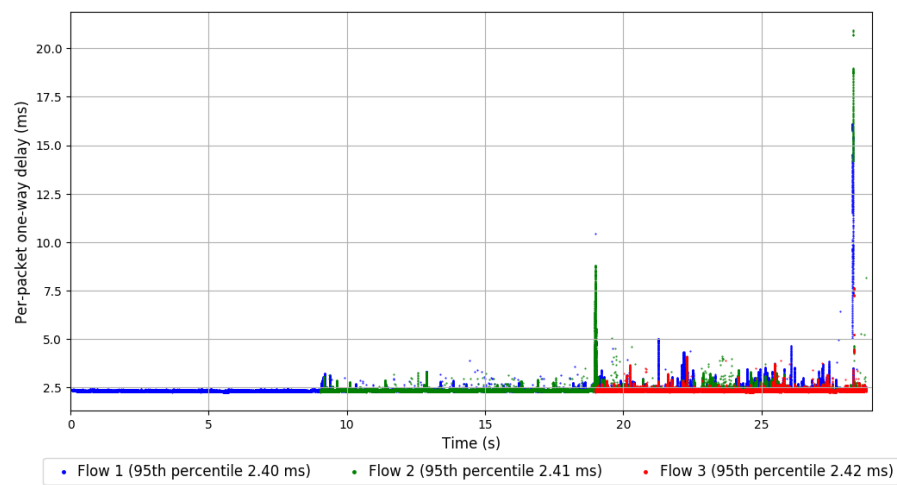
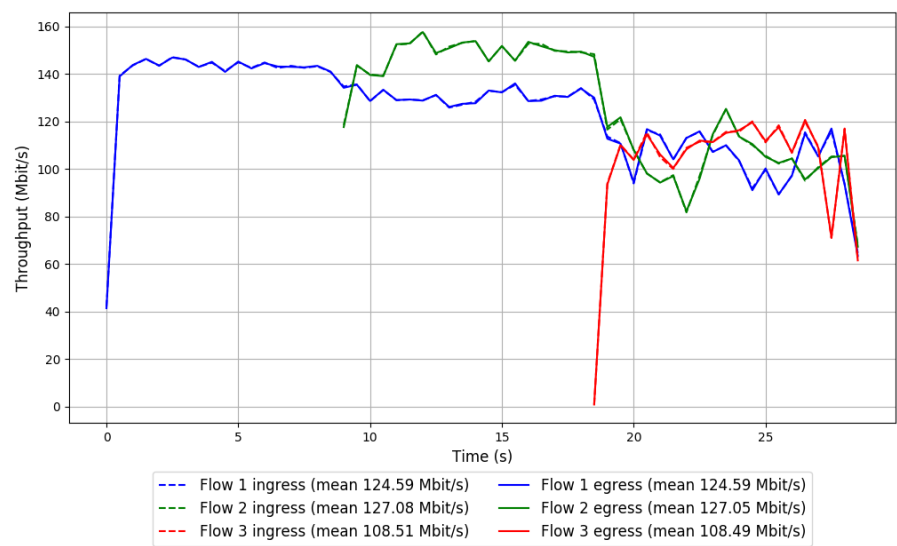


```
Run 2: Statistics of Indigo-delay

Start at: 2017-09-21 19:55:03
End at: 2017-09-21 19:55:33
Local clock offset: 0.075 ms
Remote clock offset: 0.261 ms

# Below is generated by plot.py at 2017-09-22 03:34:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 248.69 Mbit/s
95th percentile per-packet one-way delay: 2.402 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 124.59 Mbit/s
95th percentile per-packet one-way delay: 2.395 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 127.05 Mbit/s
95th percentile per-packet one-way delay: 2.410 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 108.49 Mbit/s
95th percentile per-packet one-way delay: 2.419 ms
Loss rate: 0.05%
```

Run 2: Report of Indigo-delay — Data Link

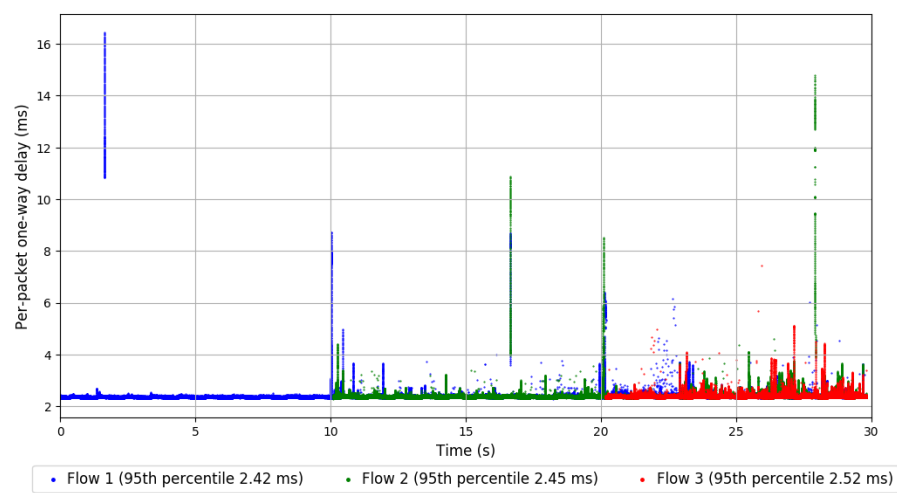
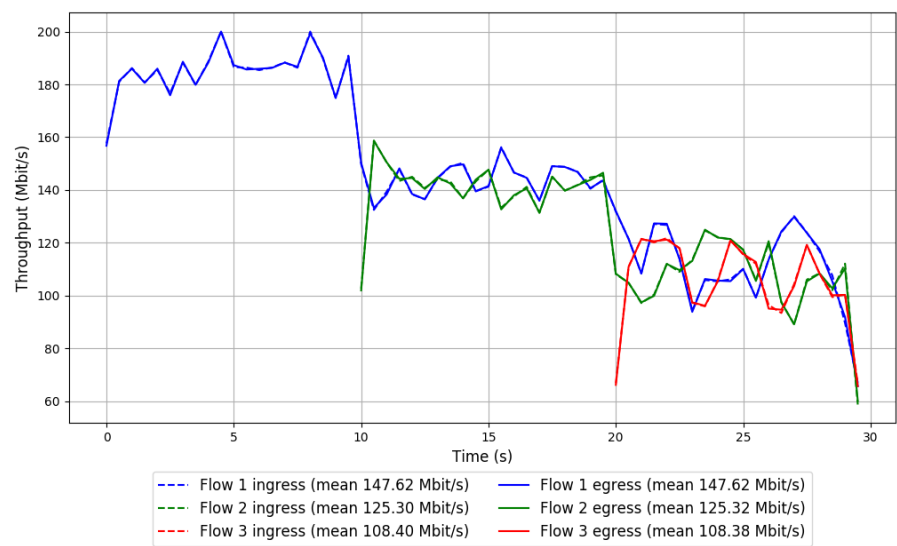


```
Run 3: Statistics of Indigo-delay

Start at: 2017-09-21 20:13:48
End at: 2017-09-21 20:14:18
Local clock offset: 0.057 ms
Remote clock offset: 0.407 ms

# Below is generated by plot.py at 2017-09-22 03:35:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 265.70 Mbit/s
95th percentile per-packet one-way delay: 2.436 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 147.62 Mbit/s
95th percentile per-packet one-way delay: 2.423 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 125.32 Mbit/s
95th percentile per-packet one-way delay: 2.450 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 108.38 Mbit/s
95th percentile per-packet one-way delay: 2.515 ms
Loss rate: 0.05%
```


Run 3: Report of Indigo-delay — Data Link



Run 4: Statistics of Indigo-delay

Start at: 2017-09-21 20:32:47

End at: 2017-09-21 20:33:17

Local clock offset: 0.087 ms

Remote clock offset: 0.638 ms

Below is generated by plot.py at 2017-09-22 03:35:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 265.56 Mbit/s

95th percentile per-packet one-way delay: 2.388 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 146.49 Mbit/s

95th percentile per-packet one-way delay: 2.359 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 125.80 Mbit/s

95th percentile per-packet one-way delay: 2.423 ms

Loss rate: 0.02%

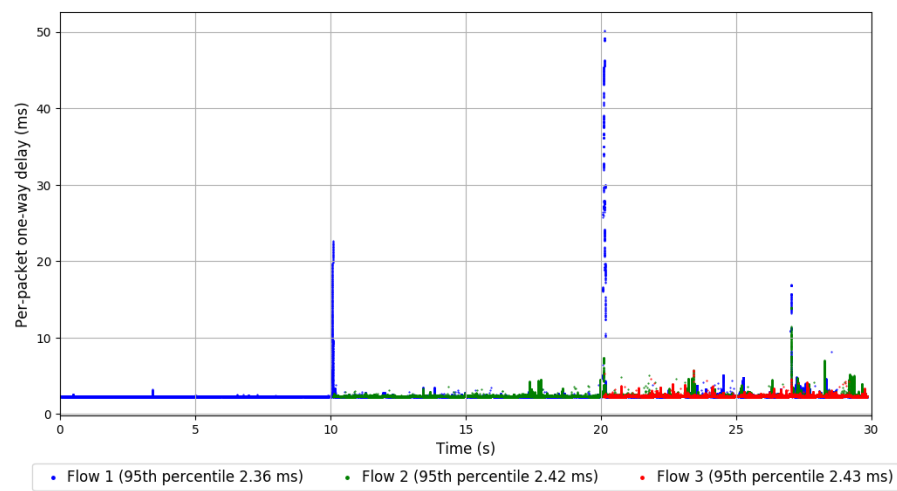
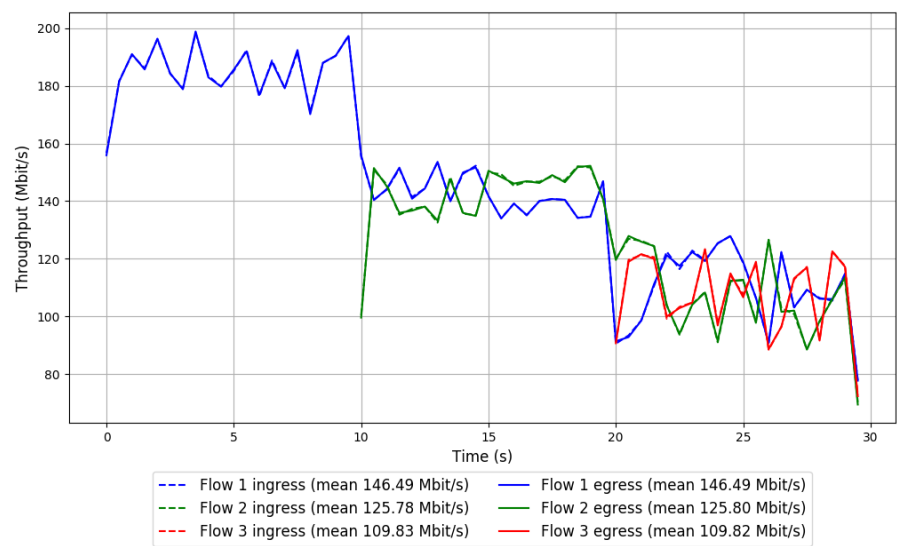
-- Flow 3:

Average throughput: 109.82 Mbit/s

95th percentile per-packet one-way delay: 2.431 ms

Loss rate: 0.05%

Run 4: Report of Indigo-delay — Data Link



Run 5: Statistics of Indigo-delay

Start at: 2017-09-21 20:51:24

End at: 2017-09-21 20:51:54

Local clock offset: 0.063 ms

Remote clock offset: 0.758 ms

Below is generated by plot.py at 2017-09-22 03:36:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 263.25 Mbit/s

95th percentile per-packet one-way delay: 2.419 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 148.49 Mbit/s

95th percentile per-packet one-way delay: 2.400 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 121.87 Mbit/s

95th percentile per-packet one-way delay: 2.433 ms

Loss rate: 0.02%

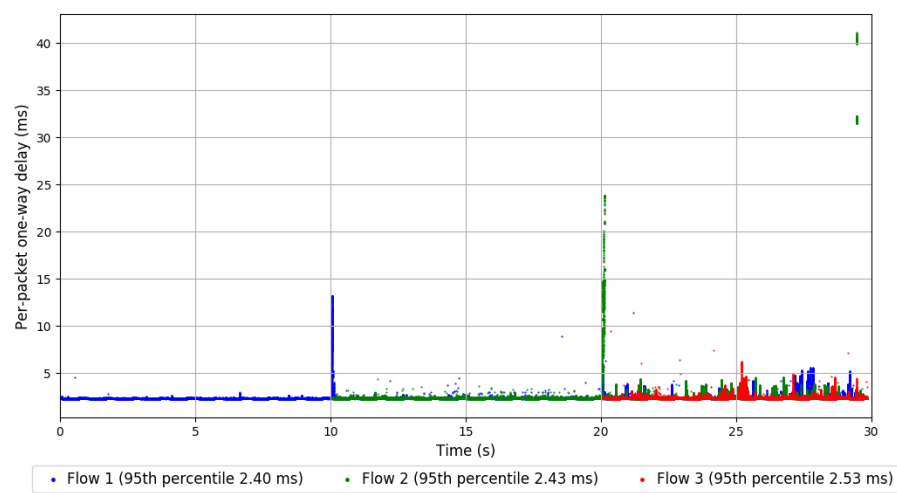
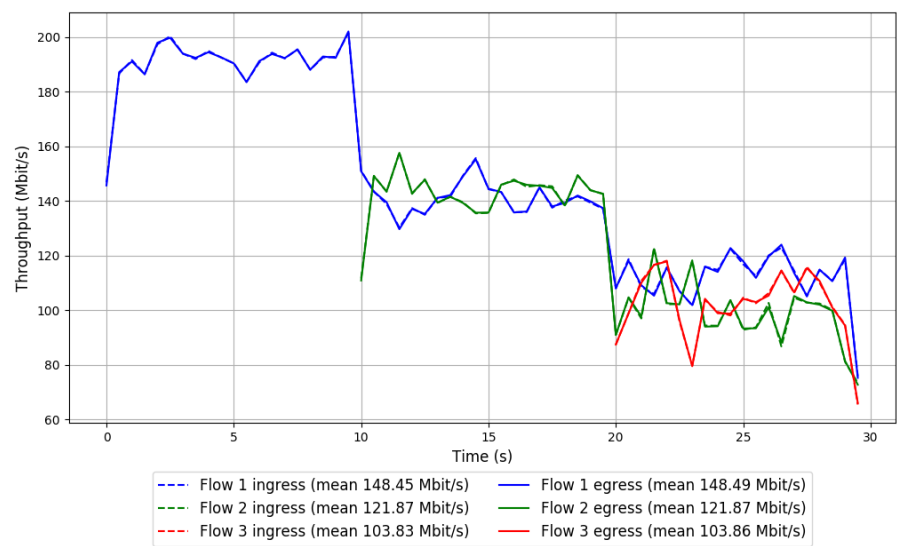
-- Flow 3:

Average throughput: 103.86 Mbit/s

95th percentile per-packet one-way delay: 2.531 ms

Loss rate: 0.01%

Run 5: Report of Indigo-delay — Data Link



Run 6: Statistics of Indigo-delay

Start at: 2017-09-21 21:10:07

End at: 2017-09-21 21:10:37

Local clock offset: 0.038 ms

Remote clock offset: 0.87 ms

Below is generated by plot.py at 2017-09-22 03:36:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 269.16 Mbit/s

95th percentile per-packet one-way delay: 2.365 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 148.55 Mbit/s

95th percentile per-packet one-way delay: 2.351 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 126.92 Mbit/s

95th percentile per-packet one-way delay: 2.376 ms

Loss rate: 0.03%

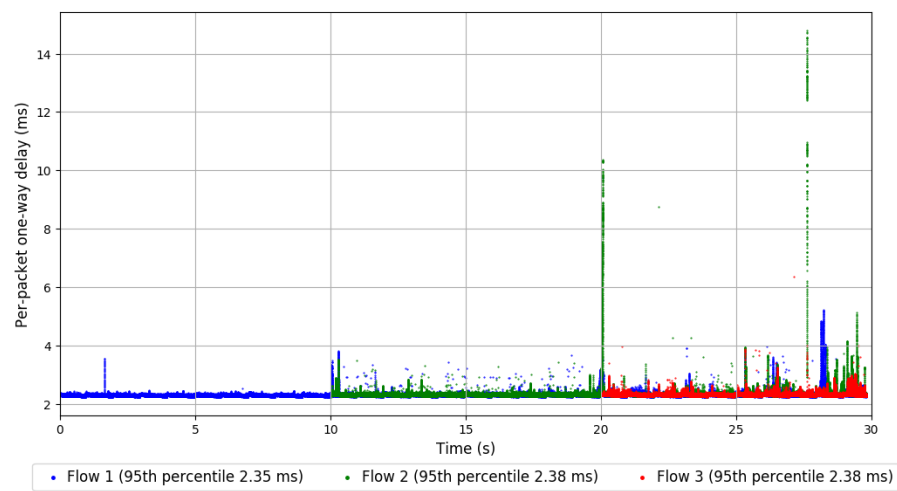
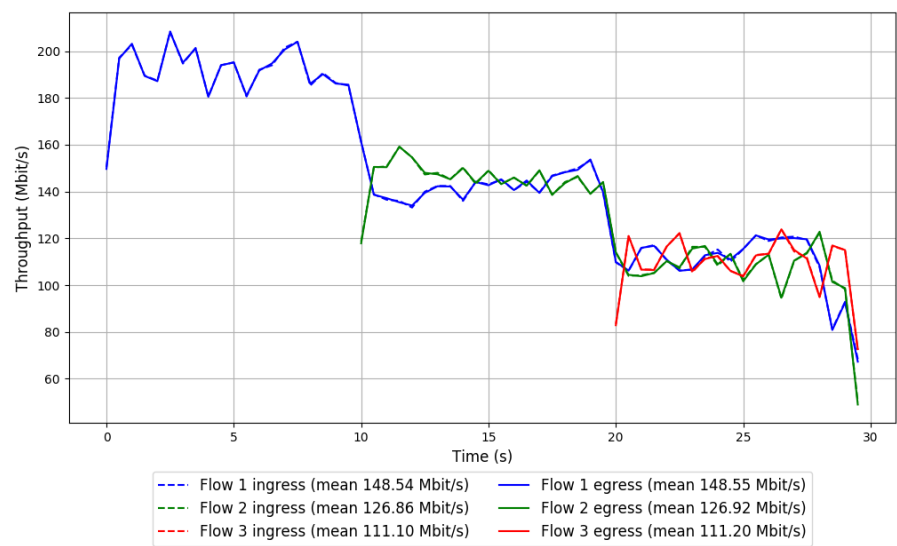
-- Flow 3:

Average throughput: 111.20 Mbit/s

95th percentile per-packet one-way delay: 2.384 ms

Loss rate: 0.00%

Run 6: Report of Indigo-delay — Data Link



Run 7: Statistics of Indigo-delay

Start at: 2017-09-21 21:29:04

End at: 2017-09-21 21:29:34

Local clock offset: -0.024 ms

Remote clock offset: 0.837 ms

Below is generated by plot.py at 2017-09-22 03:36:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 265.21 Mbit/s

95th percentile per-packet one-way delay: 2.323 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 147.91 Mbit/s

95th percentile per-packet one-way delay: 2.278 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 125.15 Mbit/s

95th percentile per-packet one-way delay: 2.369 ms

Loss rate: 0.01%

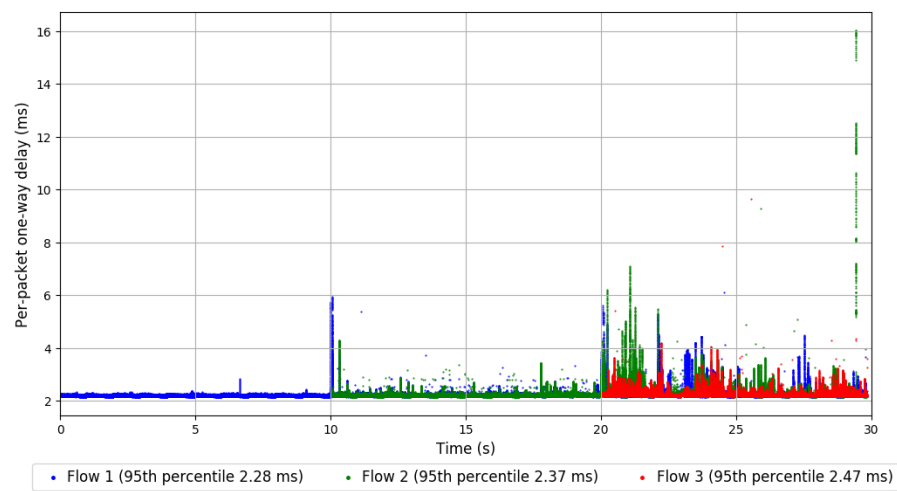
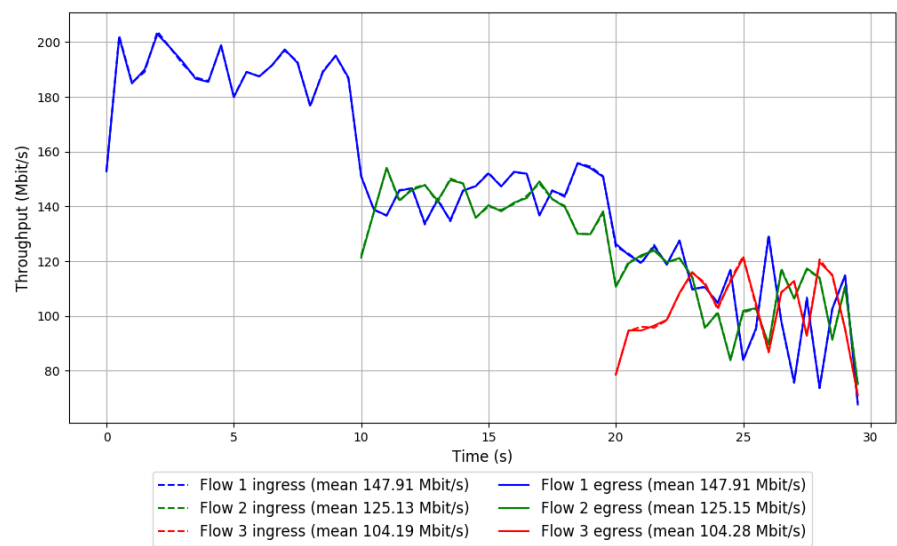
-- Flow 3:

Average throughput: 104.28 Mbit/s

95th percentile per-packet one-way delay: 2.474 ms

Loss rate: 0.04%

Run 7: Report of Indigo-delay — Data Link



Run 8: Statistics of Indigo-delay

Start at: 2017-09-21 21:48:14

End at: 2017-09-21 21:48:44

Local clock offset: 0.035 ms

Remote clock offset: 0.789 ms

Below is generated by plot.py at 2017-09-22 03:36:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 262.43 Mbit/s

95th percentile per-packet one-way delay: 2.410 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 144.80 Mbit/s

95th percentile per-packet one-way delay: 2.400 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 126.49 Mbit/s

95th percentile per-packet one-way delay: 2.376 ms

Loss rate: 0.00%

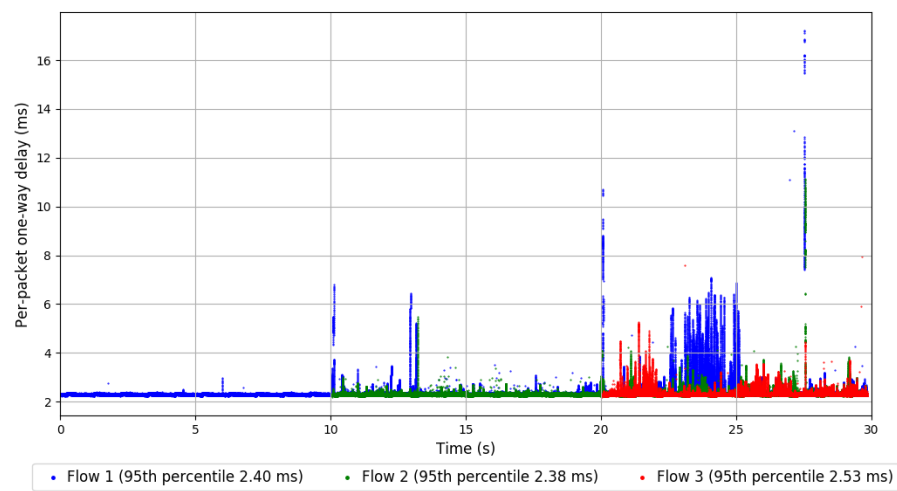
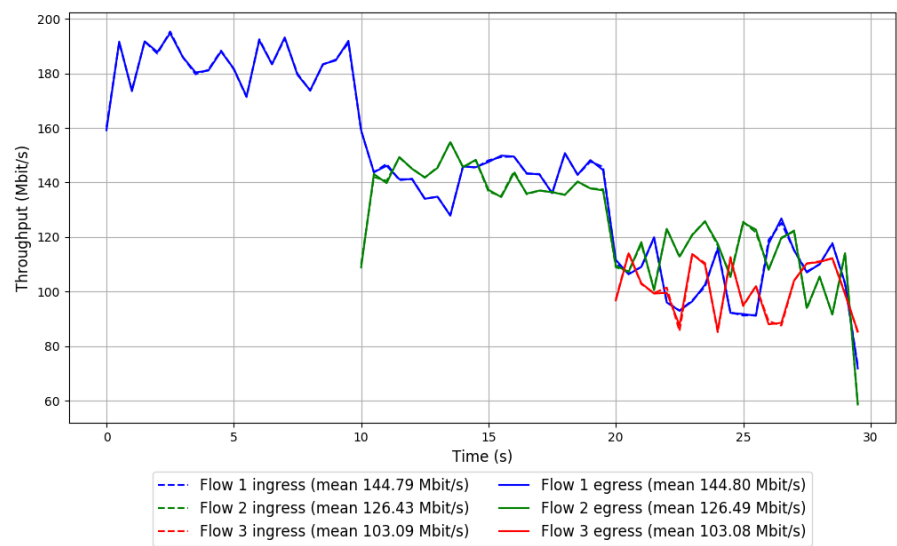
-- Flow 3:

Average throughput: 103.08 Mbit/s

95th percentile per-packet one-way delay: 2.532 ms

Loss rate: 0.02%

Run 8: Report of Indigo-delay — Data Link

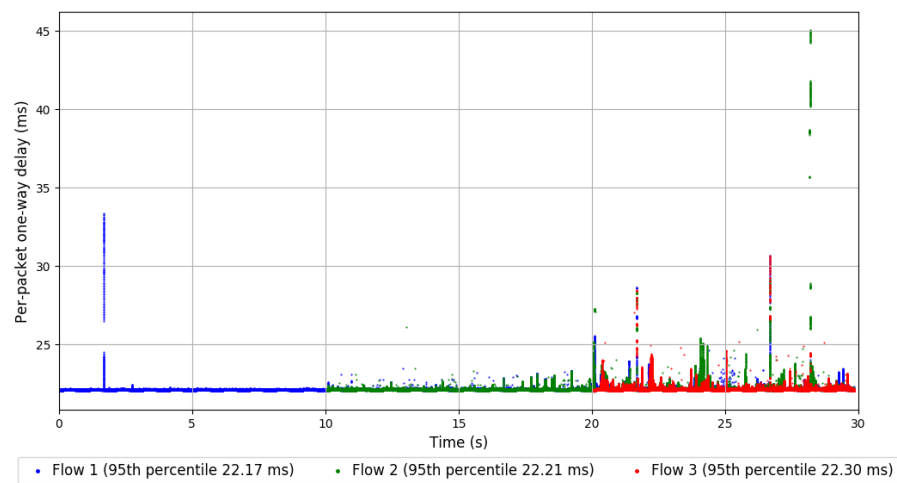
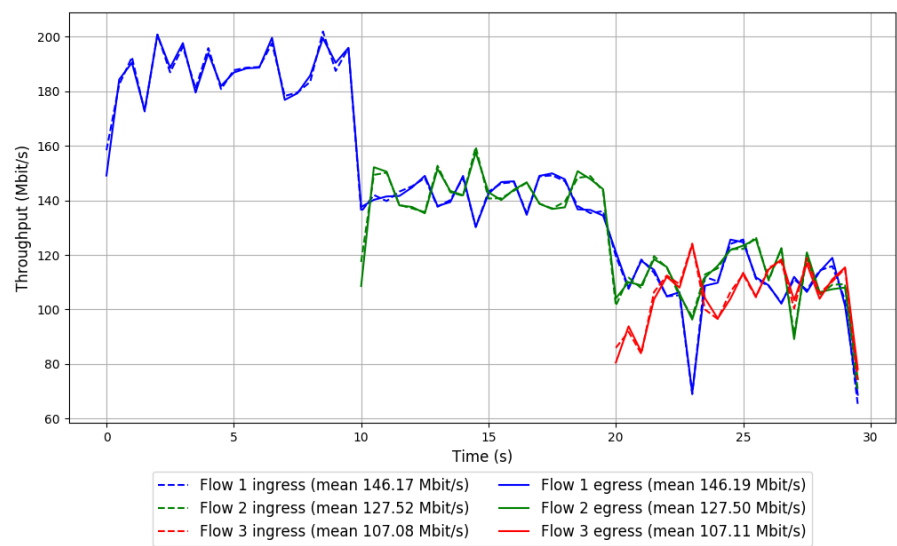


Run 9: Statistics of Indigo-delay

Start at: 2017-09-21 22:07:09
End at: 2017-09-21 22:07:39
Local clock offset: -0.065 ms
Remote clock offset: -19.166 ms

Below is generated by plot.py at 2017-09-22 03:36:34
Datalink statistics
-- Total of 3 flows:
Average throughput: 265.80 Mbit/s
95th percentile per-packet one-way delay: 22.182 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 146.19 Mbit/s
95th percentile per-packet one-way delay: 22.166 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 127.50 Mbit/s
95th percentile per-packet one-way delay: 22.210 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 107.11 Mbit/s
95th percentile per-packet one-way delay: 22.299 ms
Loss rate: 0.01%

Run 9: Report of Indigo-delay — Data Link



Run 10: Statistics of Indigo-delay

Start at: 2017-09-21 22:26:00

End at: 2017-09-21 22:26:30

Local clock offset: -0.127 ms

Remote clock offset: 0.466 ms

Below is generated by plot.py at 2017-09-22 03:36:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 263.53 Mbit/s

95th percentile per-packet one-way delay: 2.268 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 146.84 Mbit/s

95th percentile per-packet one-way delay: 2.246 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 125.84 Mbit/s

95th percentile per-packet one-way delay: 2.288 ms

Loss rate: 0.00%

-- Flow 3:

Average throughput: 101.54 Mbit/s

95th percentile per-packet one-way delay: 2.319 ms

Loss rate: 0.04%

Run 10: Report of Indigo-delay — Data Link

