

Pantheon Report

Generated at 2017-12-01 02:30:19 (UTC).

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

Repeated the test of 14 congestion control schemes 10 times.

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

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

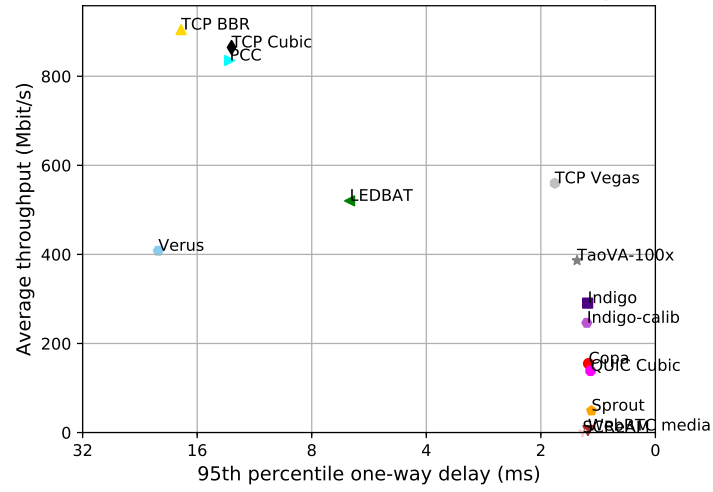
Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo_fast**).

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

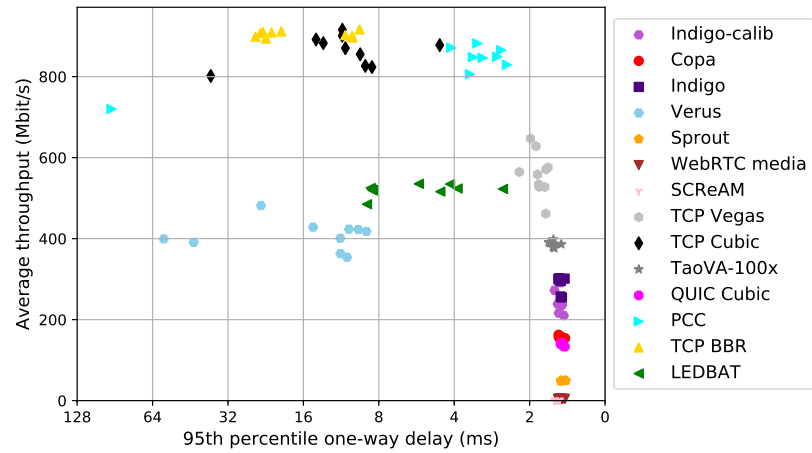
Git summary:

```
branch: indigos @ e3a57ad5ac5cfcaca0e3f983c8dd4cc3509e0262
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/genericCC @ b5b7c38e8391001927dc41c6cfa2627d03dde737
third_party/indigo @ b19f3730105f9aa95452552af924e3719b03cc55
third_party/indigo-cellular @ aee99e8eb842cb053f8c9a80e28cd256a930bbc2
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/indigo-no-cwnd @ 3e58442c04028a11d7b02456e137604633ba2d6c
third_party/indigo-no-delivery-rate @ 57caa40858b964906edff4876d5a7e5bfff666c5
third_party/indigo-no-queuing-delay @ 03455460fd1a8ffbdad86fabb936fdca204b80db
third_party/indigo-no-send-rate @ b39dfa6b2c5f19cb7cd89626cb4f5bb81f9fecda
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
  M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ baf443516dea3eeddeccaf9b916cc313273ca4f4
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
  M receiver/src/buffer.h
  M receiver/src/core.cpp
  M sender/src/buffer.h
  M sender/src/core.cpp
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eae30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
  M src/examples/cellsim.cc
  M src/examples/sproutbt2.cc
  M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/webrtc @ a488197ddd041ace68a42849b2540ad834825f42
```

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



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



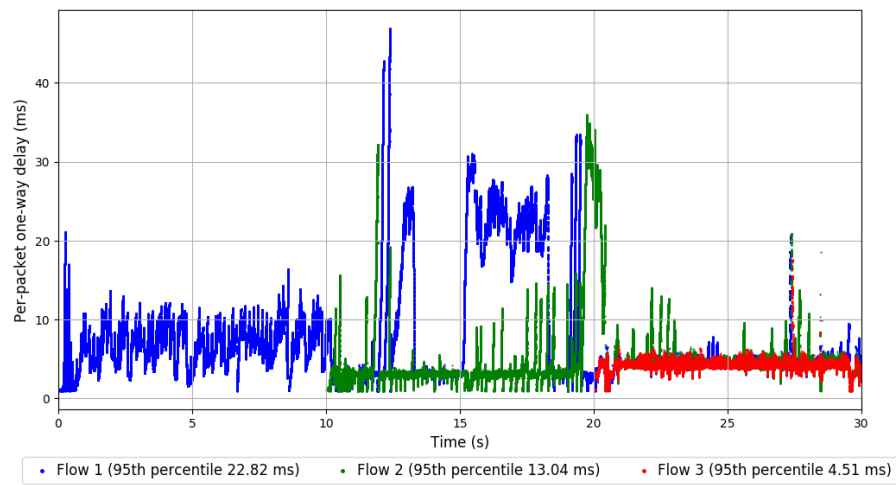
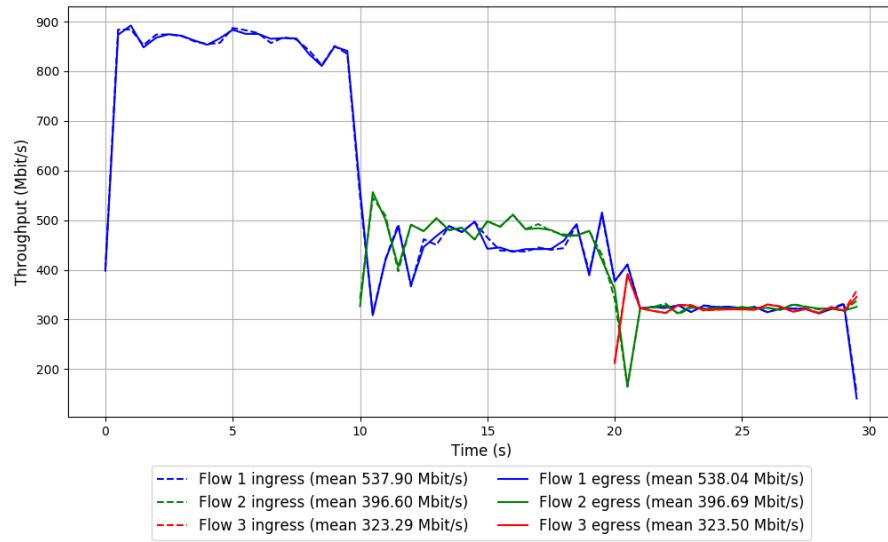
scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	10	539.21	388.10	324.06	15.34	13.51	4.78	0.05	0.10	0.23
TCP Cubic	10	499.14	391.84	316.31	10.24	8.74	4.57	0.05	0.10	0.24
LEDBAT	10	305.03	237.94	172.51	5.20	6.22	3.07	0.05	0.10	0.24
PCC	9	625.04	261.04	112.69	14.74	2.81	2.69	0.76	0.12	0.25
QUIC Cubic	10	73.30	69.46	58.42	1.13	1.14	1.14	0.05	0.10	0.24
SCReAM	10	0.22	0.22	0.22	1.28	1.26	1.27	0.03	0.02	0.28
WebRTC media	10	2.40	1.50	0.65	1.17	1.19	1.18	0.12	0.16	0.18
Sprout	10	24.73	24.65	24.47	1.11	1.12	1.12	0.06	0.08	0.18
TaoVA-100x	10	219.03	201.23	135.60	1.24	1.47	1.92	0.04	0.09	0.18
TCP Vegas	10	279.77	274.81	293.48	1.64	1.84	1.79	0.06	0.08	0.21
Verus	10	238.05	181.71	151.88	29.91	8.85	7.59	0.60	0.09	0.15
Copa	10	82.36	80.71	73.99	1.16	1.17	1.18	0.05	0.09	0.16
Indigo	10	157.54	153.03	96.92	1.16	1.22	1.22	0.06	0.09	0.23
Indigo-calib	10	132.69	123.15	98.14	1.19	1.21	1.21	0.07	0.10	0.23

Run 1: Statistics of TCP BBR

Start at: 2017-11-30 18:06:41
End at: 2017-11-30 18:07:11
Local clock offset: 0.207 ms
Remote clock offset: -2.208 ms

Below is generated by plot.py at 2017-12-01 01:01:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 909.06 Mbit/s
95th percentile per-packet one-way delay: 21.458 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 538.04 Mbit/s
95th percentile per-packet one-way delay: 22.823 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 396.69 Mbit/s
95th percentile per-packet one-way delay: 13.038 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 323.50 Mbit/s
95th percentile per-packet one-way delay: 4.509 ms
Loss rate: 0.24%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2017-11-30 18:27:15

End at: 2017-11-30 18:27:45

Local clock offset: 0.181 ms

Remote clock offset: -1.79 ms

Below is generated by plot.py at 2017-12-01 01:01:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 900.38 Mbit/s

95th percentile per-packet one-way delay: 10.212 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 532.83 Mbit/s

95th percentile per-packet one-way delay: 10.737 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 390.94 Mbit/s

95th percentile per-packet one-way delay: 5.728 ms

Loss rate: 0.10%

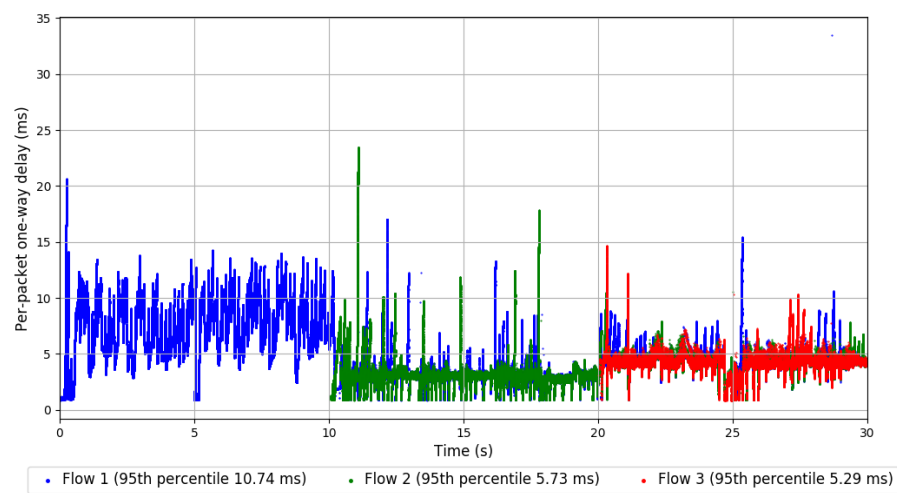
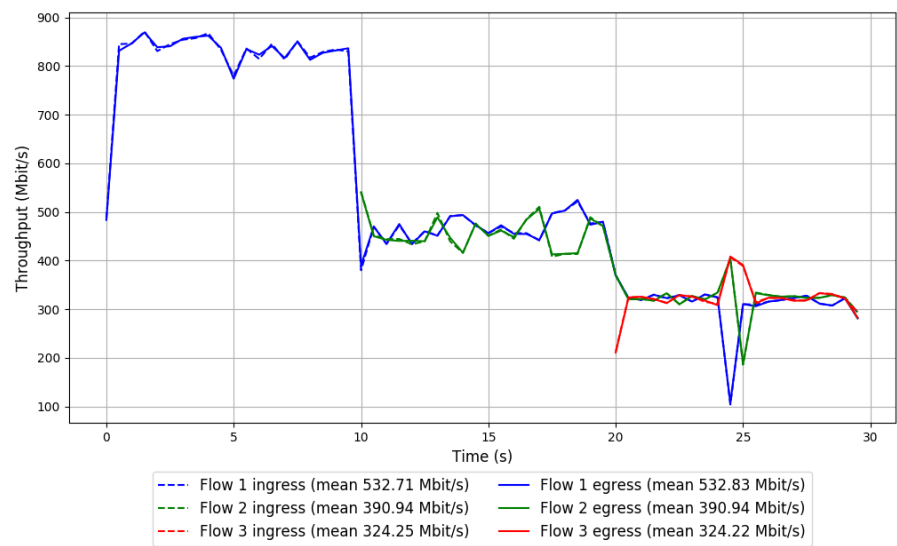
-- Flow 3:

Average throughput: 324.22 Mbit/s

95th percentile per-packet one-way delay: 5.291 ms

Loss rate: 0.23%

Run 2: Report of TCP BBR — Data Link

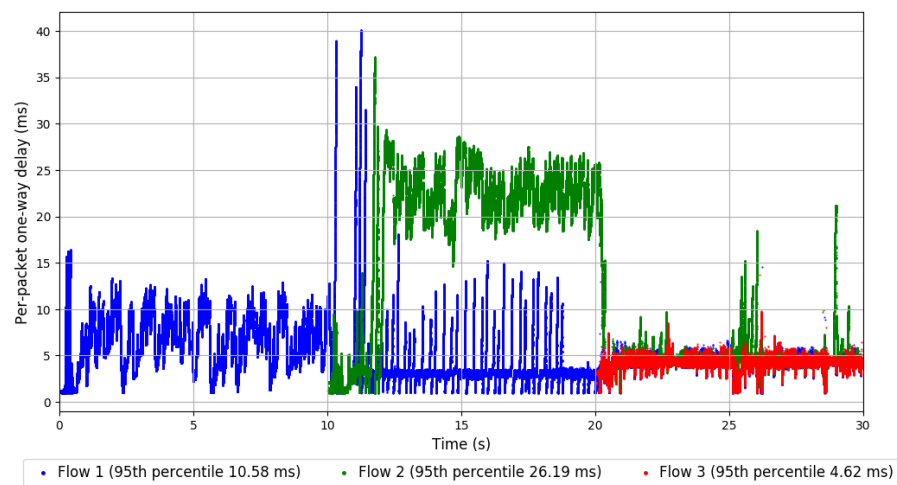
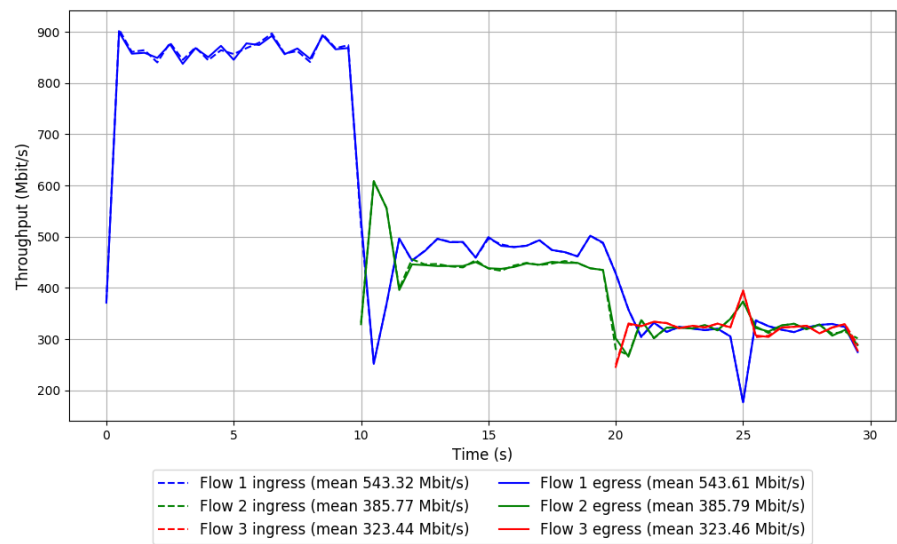


Run 3: Statistics of TCP BBR

Start at: 2017-11-30 18:48:00
End at: 2017-11-30 18:48:30
Local clock offset: 0.193 ms
Remote clock offset: -1.713 ms

Below is generated by plot.py at 2017-12-01 01:01:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 907.52 Mbit/s
95th percentile per-packet one-way delay: 23.775 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 543.61 Mbit/s
95th percentile per-packet one-way delay: 10.578 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 385.79 Mbit/s
95th percentile per-packet one-way delay: 26.194 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 323.46 Mbit/s
95th percentile per-packet one-way delay: 4.624 ms
Loss rate: 0.23%

Run 3: Report of TCP BBR — Data Link

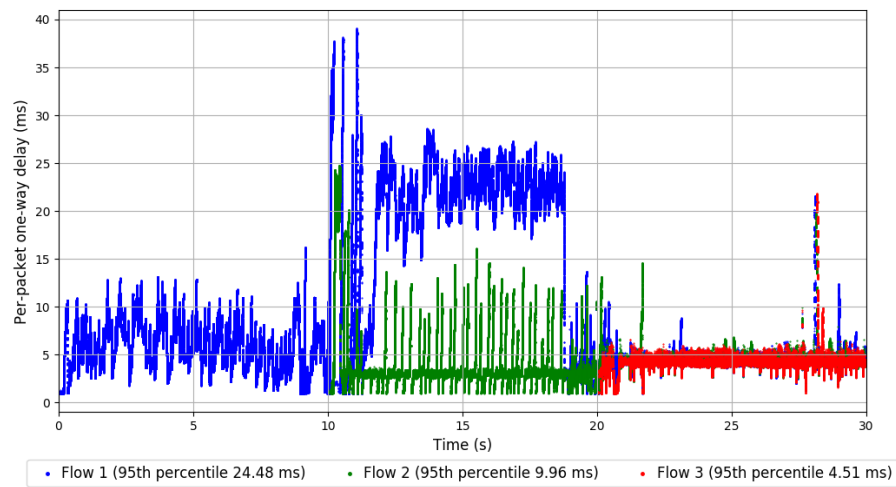
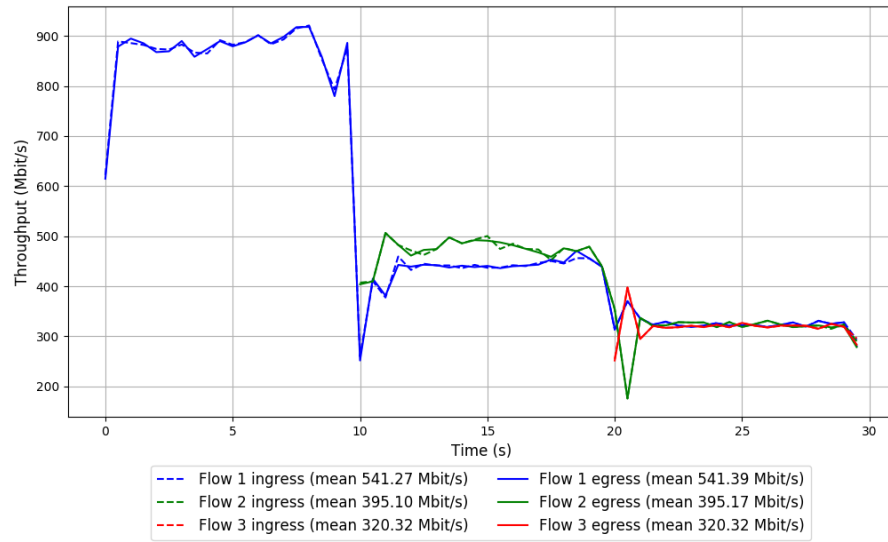


Run 4: Statistics of TCP BBR

Start at: 2017-11-30 19:08:41
End at: 2017-11-30 19:09:11
Local clock offset: 0.135 ms
Remote clock offset: -1.351 ms

Below is generated by plot.py at 2017-12-01 01:01:41
Datalink statistics
-- Total of 3 flows:
Average throughput: 910.27 Mbit/s
95th percentile per-packet one-way delay: 23.208 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 541.39 Mbit/s
95th percentile per-packet one-way delay: 24.476 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 395.17 Mbit/s
95th percentile per-packet one-way delay: 9.956 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 320.32 Mbit/s
95th percentile per-packet one-way delay: 4.513 ms
Loss rate: 0.24%

Run 4: Report of TCP BBR — Data Link

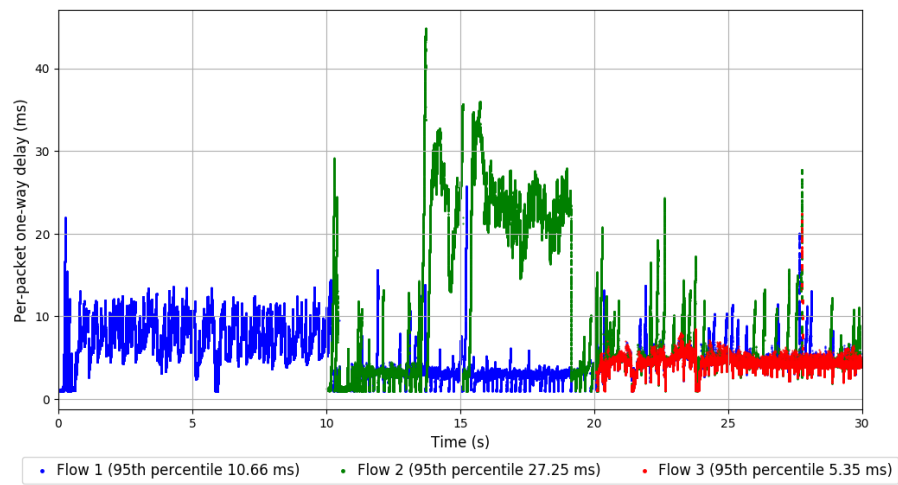
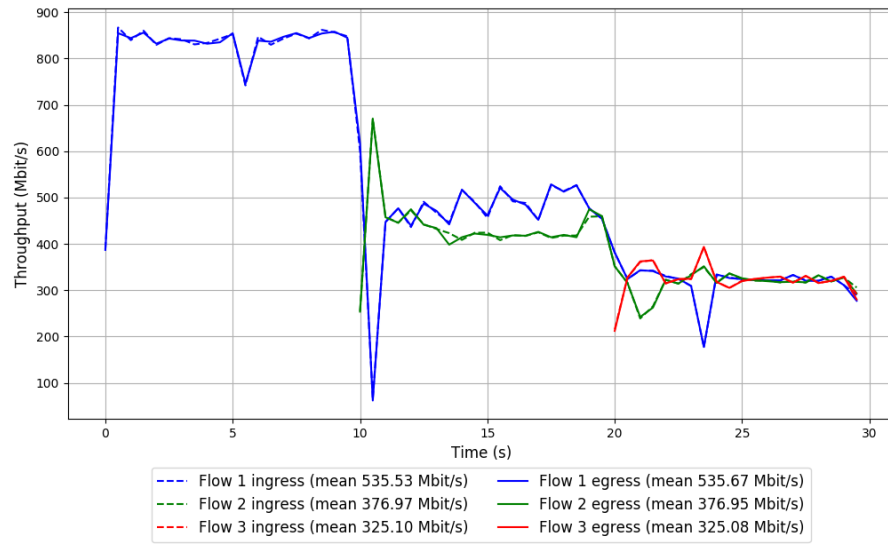


Run 5: Statistics of TCP BBR

Start at: 2017-11-30 19:29:20
End at: 2017-11-30 19:29:50
Local clock offset: 0.08 ms
Remote clock offset: -1.157 ms

Below is generated by plot.py at 2017-12-01 01:01:41
Datalink statistics
-- Total of 3 flows:
Average throughput: 894.08 Mbit/s
95th percentile per-packet one-way delay: 22.587 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 535.67 Mbit/s
95th percentile per-packet one-way delay: 10.657 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 376.95 Mbit/s
95th percentile per-packet one-way delay: 27.245 ms
Loss rate: 0.11%
-- Flow 3:
Average throughput: 325.08 Mbit/s
95th percentile per-packet one-way delay: 5.350 ms
Loss rate: 0.23%

Run 5: Report of TCP BBR — Data Link

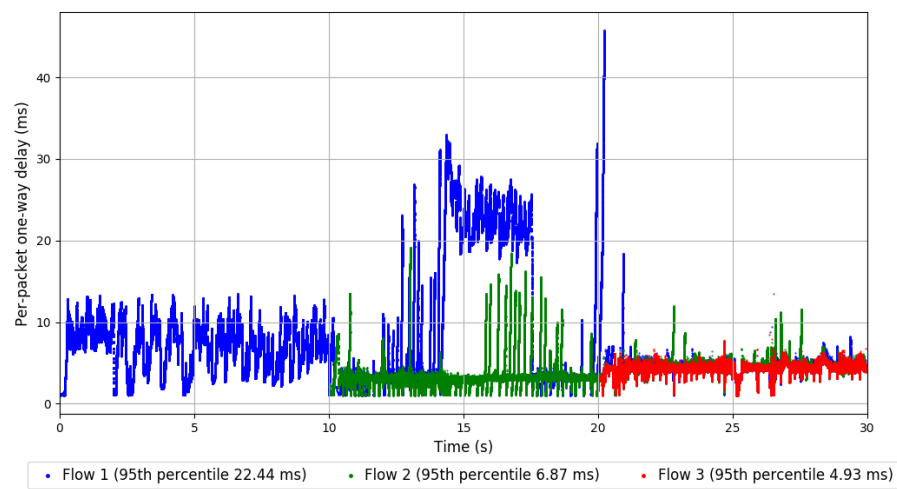
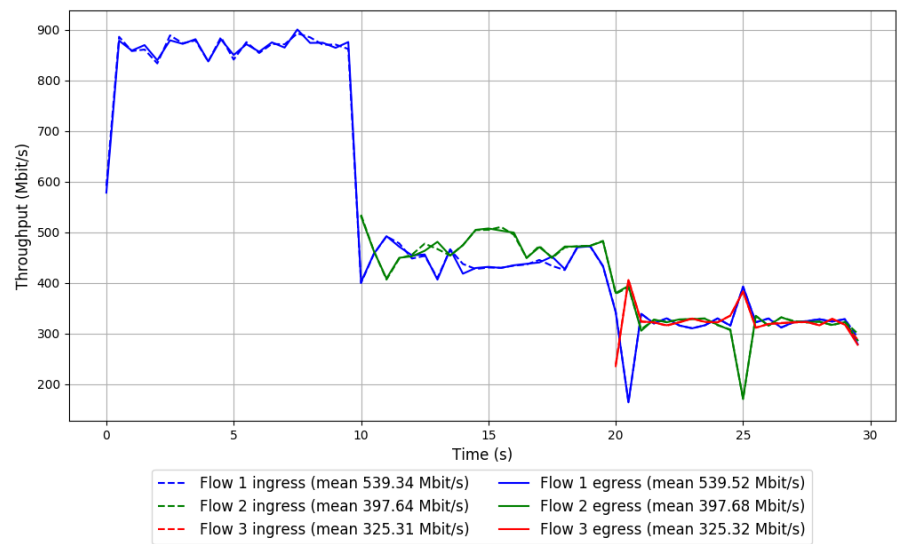


Run 6: Statistics of TCP BBR

Start at: 2017-11-30 19:49:59
End at: 2017-11-30 19:50:29
Local clock offset: 0.11 ms
Remote clock offset: -0.921 ms

Below is generated by plot.py at 2017-12-01 01:01:45
Datalink statistics
-- Total of 3 flows:
Average throughput: 911.77 Mbit/s
95th percentile per-packet one-way delay: 19.606 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 539.52 Mbit/s
95th percentile per-packet one-way delay: 22.439 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 397.68 Mbit/s
95th percentile per-packet one-way delay: 6.873 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 325.32 Mbit/s
95th percentile per-packet one-way delay: 4.935 ms
Loss rate: 0.19%

Run 6: Report of TCP BBR — Data Link

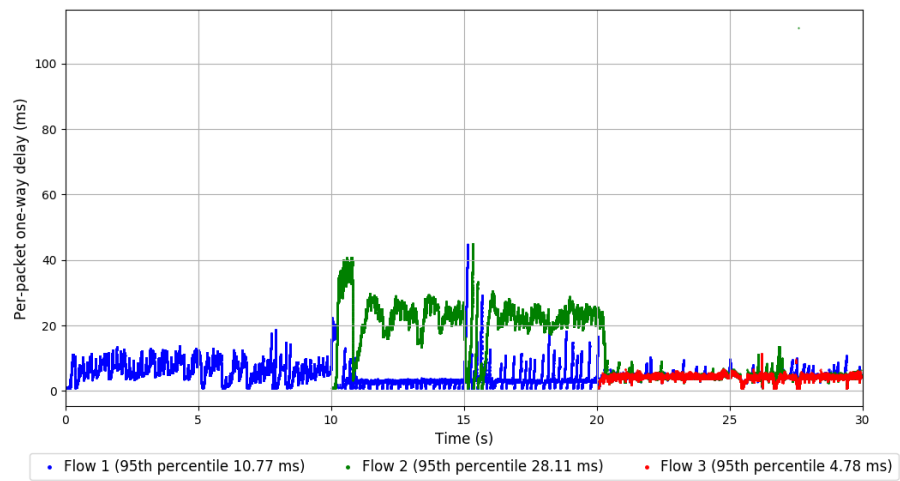
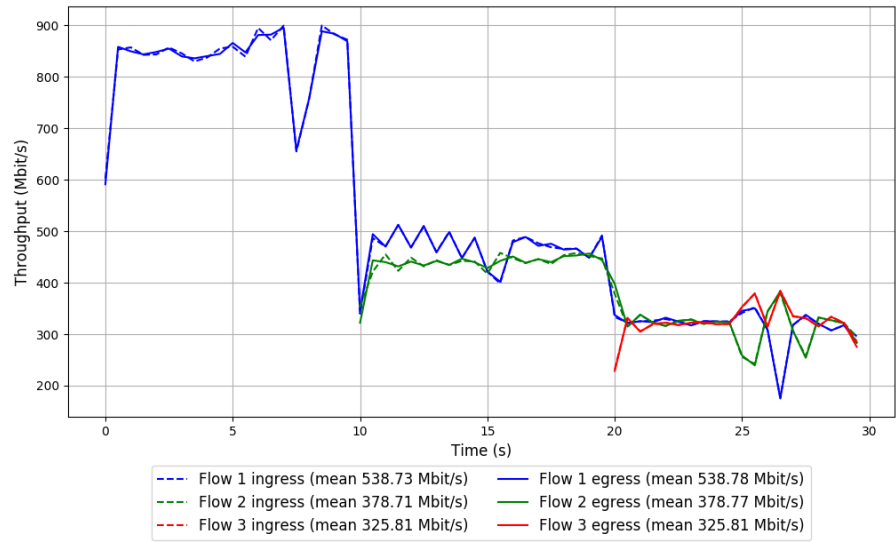


Run 7: Statistics of TCP BBR

Start at: 2017-11-30 20:10:40
End at: 2017-11-30 20:11:10
Local clock offset: 0.013 ms
Remote clock offset: -0.974 ms

Below is generated by plot.py at 2017-12-01 01:01:45
Datalink statistics
-- Total of 3 flows:
Average throughput: 898.55 Mbit/s
95th percentile per-packet one-way delay: 24.862 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 538.78 Mbit/s
95th percentile per-packet one-way delay: 10.771 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 378.77 Mbit/s
95th percentile per-packet one-way delay: 28.106 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 325.81 Mbit/s
95th percentile per-packet one-way delay: 4.776 ms
Loss rate: 0.22%

Run 7: Report of TCP BBR — Data Link

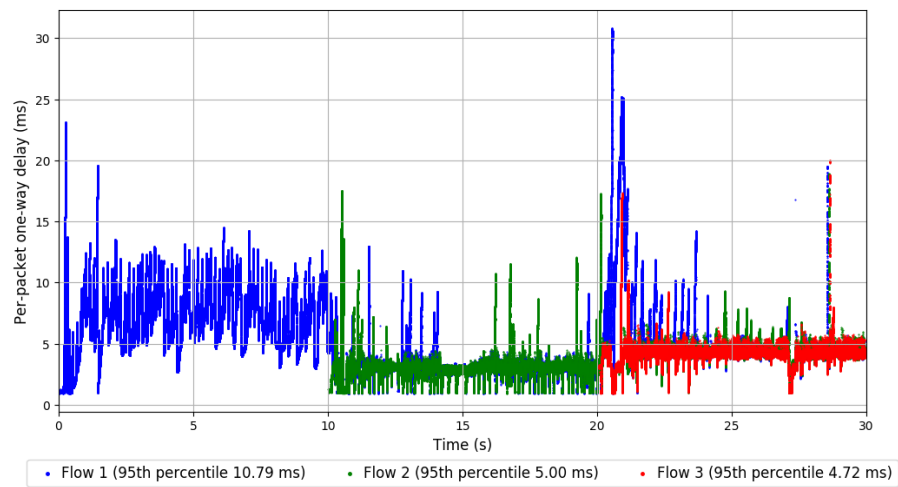
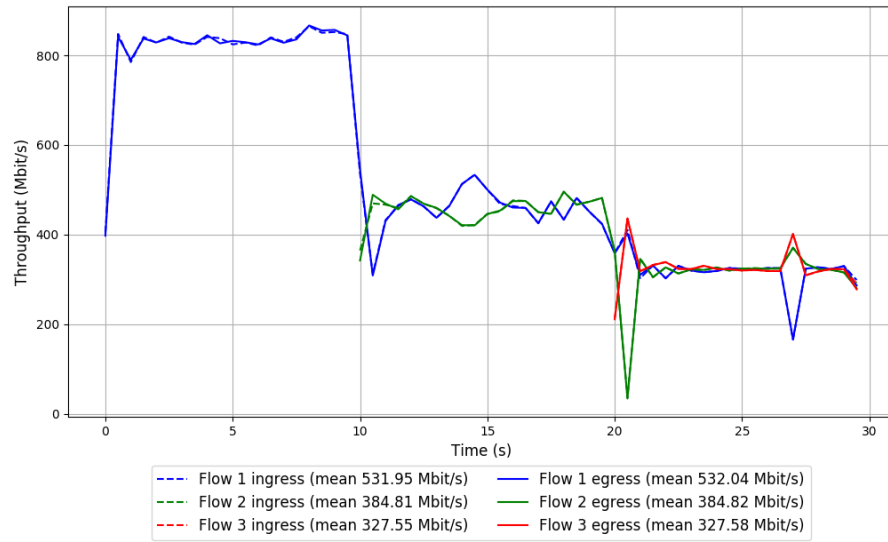


Run 8: Statistics of TCP BBR

Start at: 2017-11-30 20:31:10
End at: 2017-11-30 20:31:40
Local clock offset: 0.112 ms
Remote clock offset: -1.104 ms

Below is generated by plot.py at 2017-12-01 01:01:45
Datalink statistics
-- Total of 3 flows:
Average throughput: 896.59 Mbit/s
95th percentile per-packet one-way delay: 10.219 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 532.04 Mbit/s
95th percentile per-packet one-way delay: 10.787 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 384.82 Mbit/s
95th percentile per-packet one-way delay: 4.999 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 327.58 Mbit/s
95th percentile per-packet one-way delay: 4.721 ms
Loss rate: 0.23%

Run 8: Report of TCP BBR — Data Link

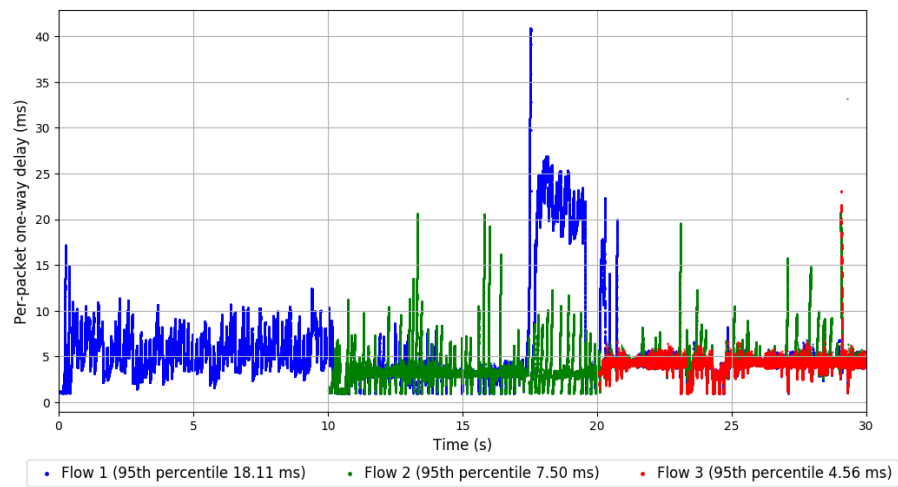
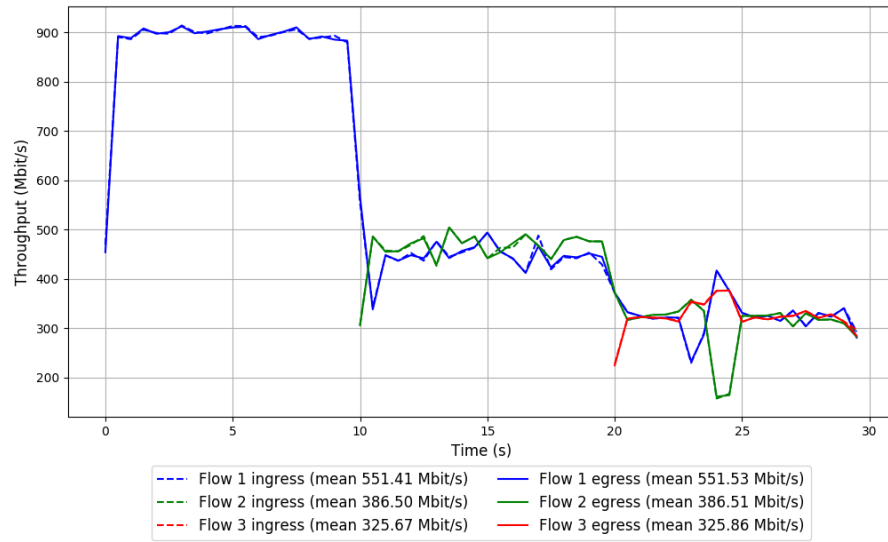


Run 9: Statistics of TCP BBR

Start at: 2017-11-30 20:51:43
End at: 2017-11-30 20:52:13
Local clock offset: 0.087 ms
Remote clock offset: -0.673 ms

Below is generated by plot.py at 2017-12-01 01:14:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 916.61 Mbit/s
95th percentile per-packet one-way delay: 9.548 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 551.53 Mbit/s
95th percentile per-packet one-way delay: 18.111 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 386.51 Mbit/s
95th percentile per-packet one-way delay: 7.502 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 325.86 Mbit/s
95th percentile per-packet one-way delay: 4.557 ms
Loss rate: 0.23%

Run 9: Report of TCP BBR — Data Link

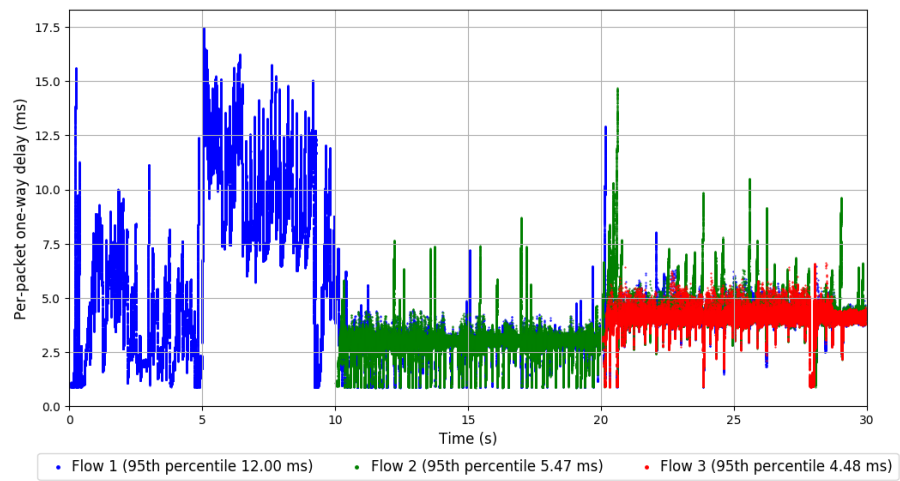
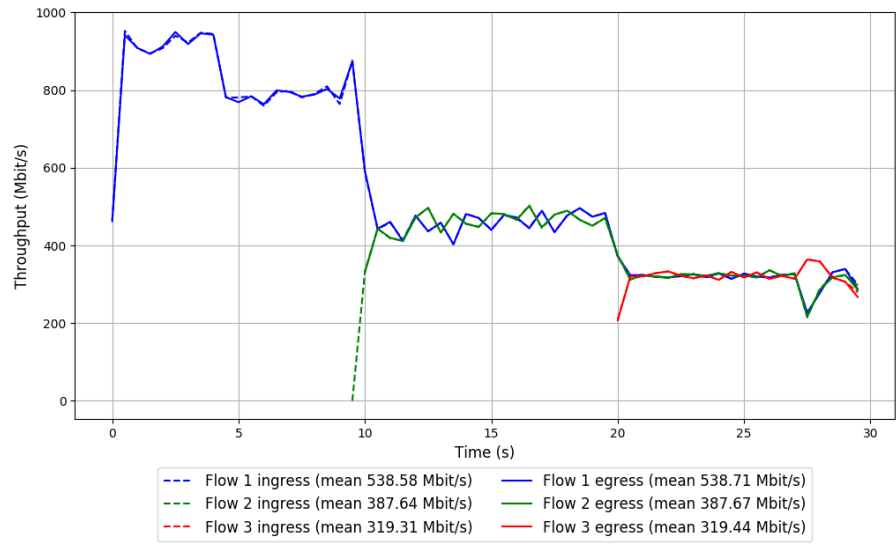


Run 10: Statistics of TCP BBR

Start at: 2017-11-30 21:12:10
End at: 2017-11-30 21:12:40
Local clock offset: -0.045 ms
Remote clock offset: -0.874 ms

Below is generated by plot.py at 2017-12-01 01:14:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 902.51 Mbit/s
95th percentile per-packet one-way delay: 10.886 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 538.71 Mbit/s
95th percentile per-packet one-way delay: 12.000 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 387.67 Mbit/s
95th percentile per-packet one-way delay: 5.473 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 319.44 Mbit/s
95th percentile per-packet one-way delay: 4.482 ms
Loss rate: 0.24%

Run 10: Report of TCP BBR — Data Link

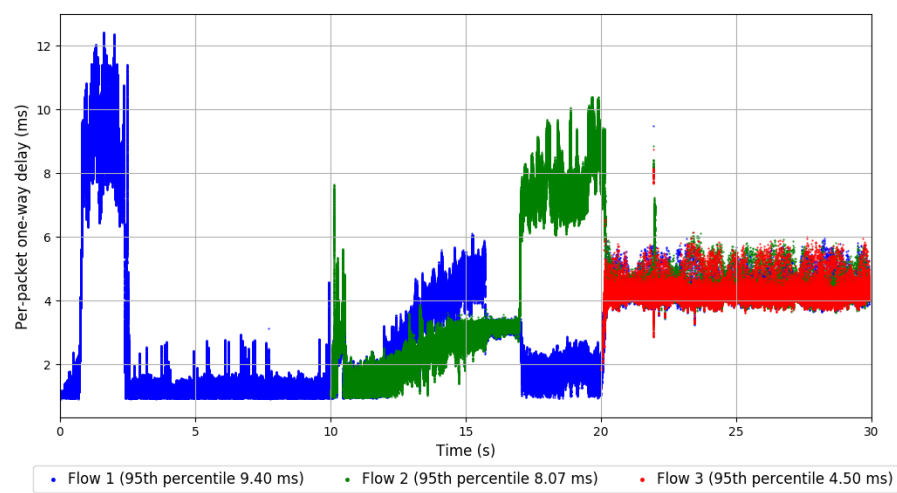
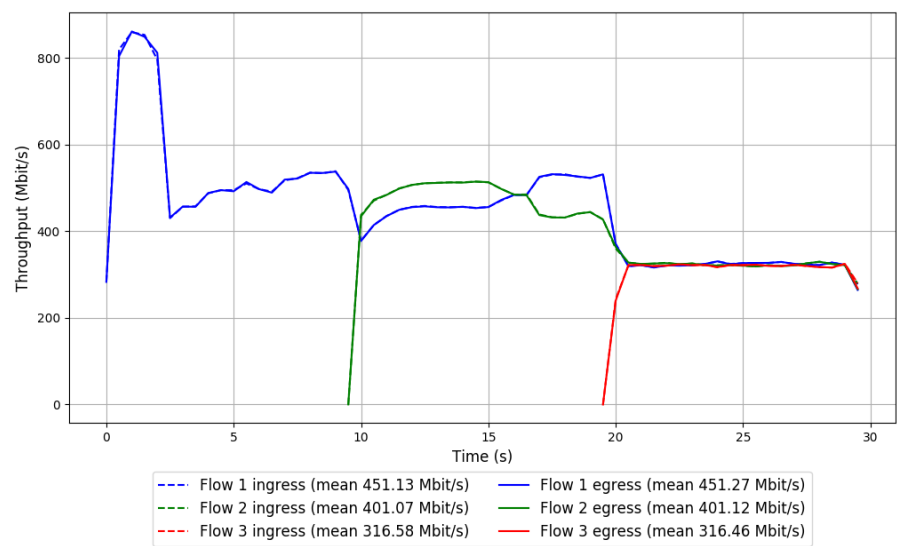


Run 1: Statistics of TCP Cubic

Start at: 2017-11-30 18:08:32
End at: 2017-11-30 18:09:02
Local clock offset: 0.195 ms
Remote clock offset: -2.256 ms

Below is generated by plot.py at 2017-12-01 01:14:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 823.59 Mbit/s
95th percentile per-packet one-way delay: 8.520 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 451.27 Mbit/s
95th percentile per-packet one-way delay: 9.396 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 401.12 Mbit/s
95th percentile per-packet one-way delay: 8.068 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 316.46 Mbit/s
95th percentile per-packet one-way delay: 4.496 ms
Loss rate: 0.24%

Run 1: Report of TCP Cubic — Data Link

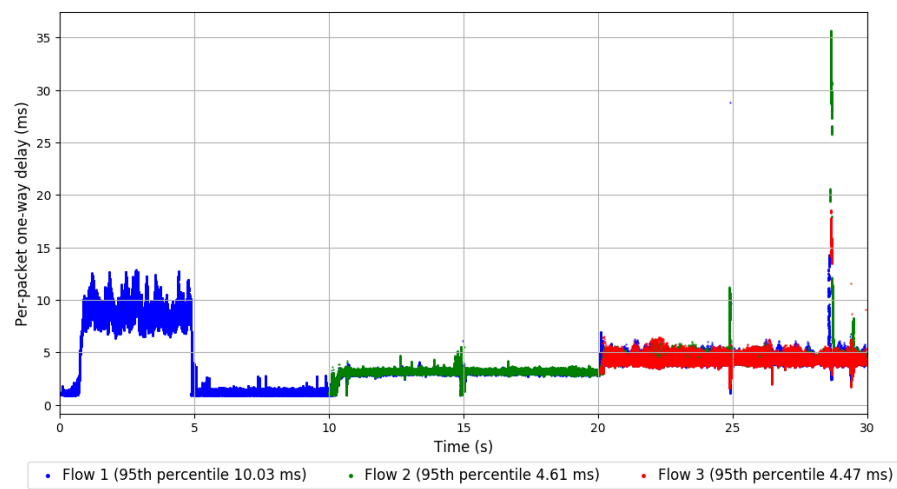
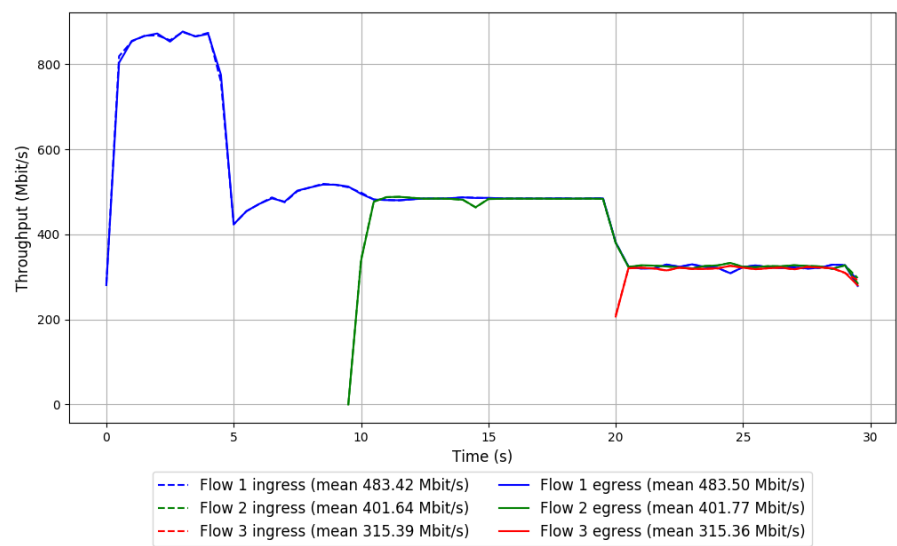


Run 2: Statistics of TCP Cubic

Start at: 2017-11-30 18:29:05
End at: 2017-11-30 18:29:35
Local clock offset: 0.204 ms
Remote clock offset: -1.776 ms

Below is generated by plot.py at 2017-12-01 01:14:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 855.26 Mbit/s
95th percentile per-packet one-way delay: 9.491 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 483.50 Mbit/s
95th percentile per-packet one-way delay: 10.027 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 401.77 Mbit/s
95th percentile per-packet one-way delay: 4.611 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 315.36 Mbit/s
95th percentile per-packet one-way delay: 4.467 ms
Loss rate: 0.24%

Run 2: Report of TCP Cubic — Data Link

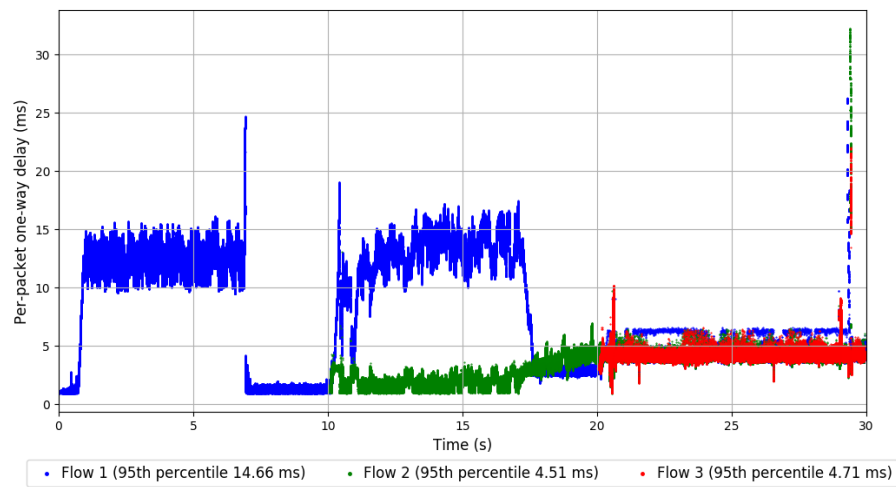
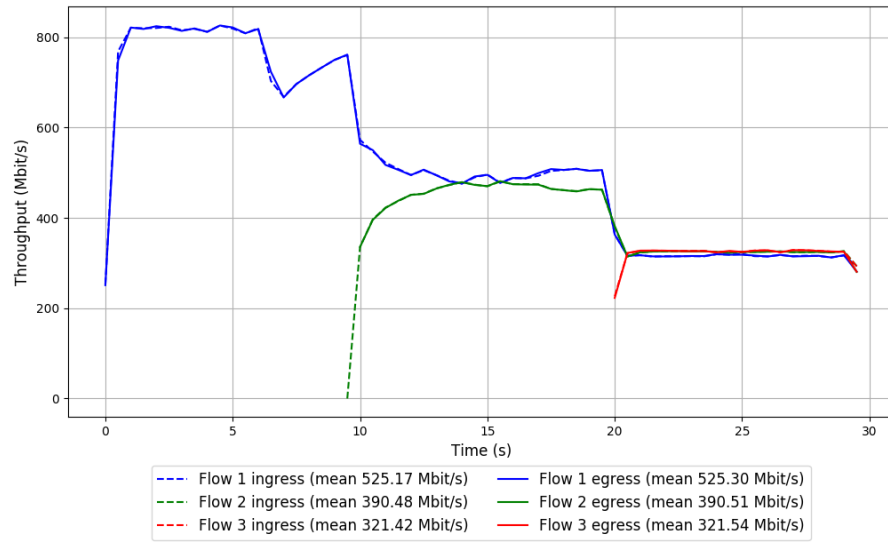


Run 3: Statistics of TCP Cubic

Start at: 2017-11-30 18:49:49
End at: 2017-11-30 18:50:19
Local clock offset: 0.185 ms
Remote clock offset: -1.642 ms

Below is generated by plot.py at 2017-12-01 01:14:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 891.87 Mbit/s
95th percentile per-packet one-way delay: 14.242 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 525.30 Mbit/s
95th percentile per-packet one-way delay: 14.657 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 390.51 Mbit/s
95th percentile per-packet one-way delay: 4.510 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 321.54 Mbit/s
95th percentile per-packet one-way delay: 4.706 ms
Loss rate: 0.24%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2017-11-30 19:10:31

End at: 2017-11-30 19:11:01

Local clock offset: 0.213 ms

Remote clock offset: -1.25 ms

Below is generated by plot.py at 2017-12-01 01:14:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 877.81 Mbit/s

95th percentile per-packet one-way delay: 4.571 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 506.64 Mbit/s

95th percentile per-packet one-way delay: 4.986 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 401.03 Mbit/s

95th percentile per-packet one-way delay: 4.534 ms

Loss rate: 0.09%

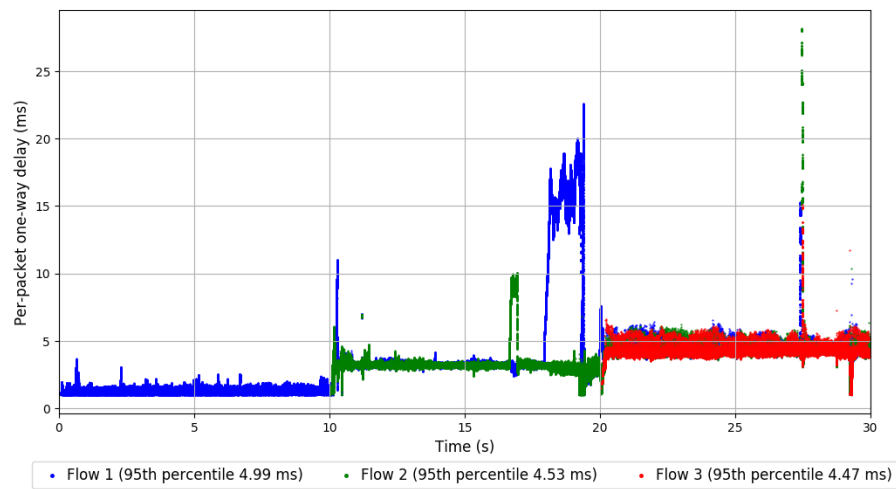
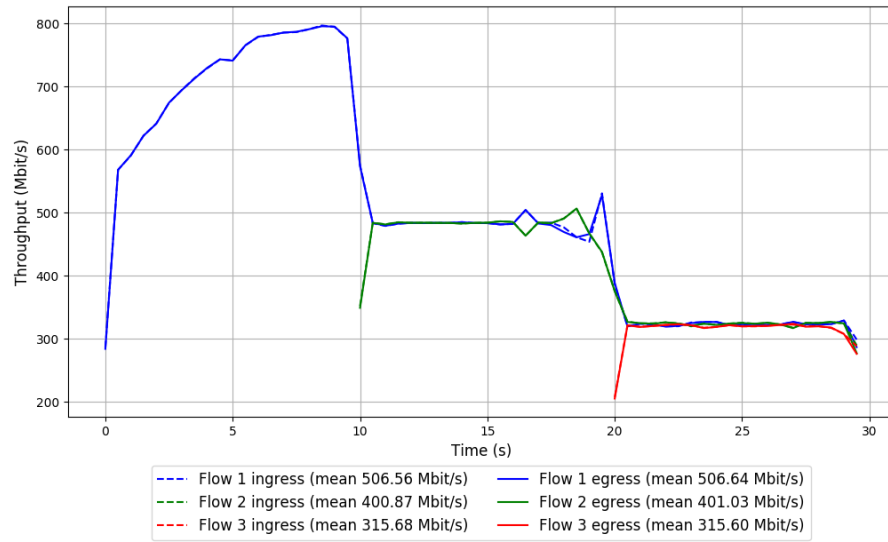
-- Flow 3:

Average throughput: 315.60 Mbit/s

95th percentile per-packet one-way delay: 4.475 ms

Loss rate: 0.23%

Run 4: Report of TCP Cubic — Data Link

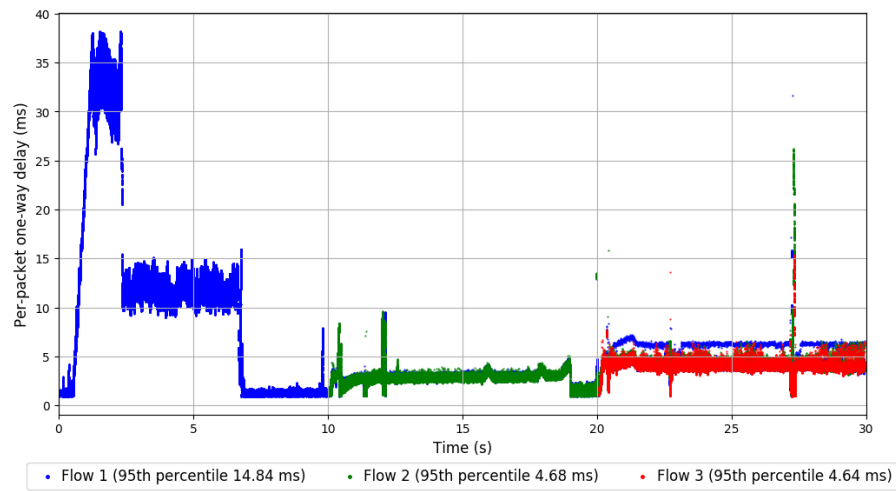
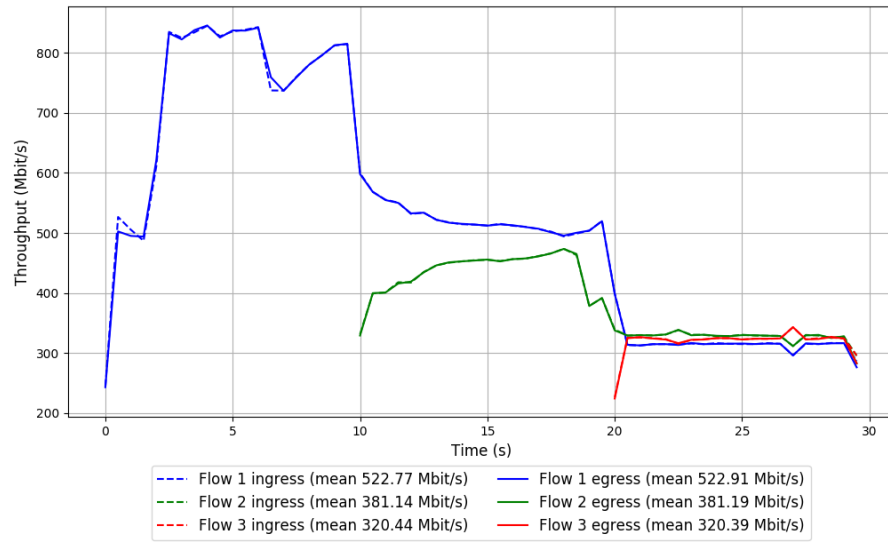


Run 5: Statistics of TCP Cubic

Start at: 2017-11-30 19:31:08
End at: 2017-11-30 19:31:38
Local clock offset: 0.077 ms
Remote clock offset: -1.051 ms

Below is generated by plot.py at 2017-12-01 01:14:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 882.70 Mbit/s
95th percentile per-packet one-way delay: 13.323 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 522.91 Mbit/s
95th percentile per-packet one-way delay: 14.841 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 381.19 Mbit/s
95th percentile per-packet one-way delay: 4.679 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 320.39 Mbit/s
95th percentile per-packet one-way delay: 4.637 ms
Loss rate: 0.25%

Run 5: Report of TCP Cubic — Data Link

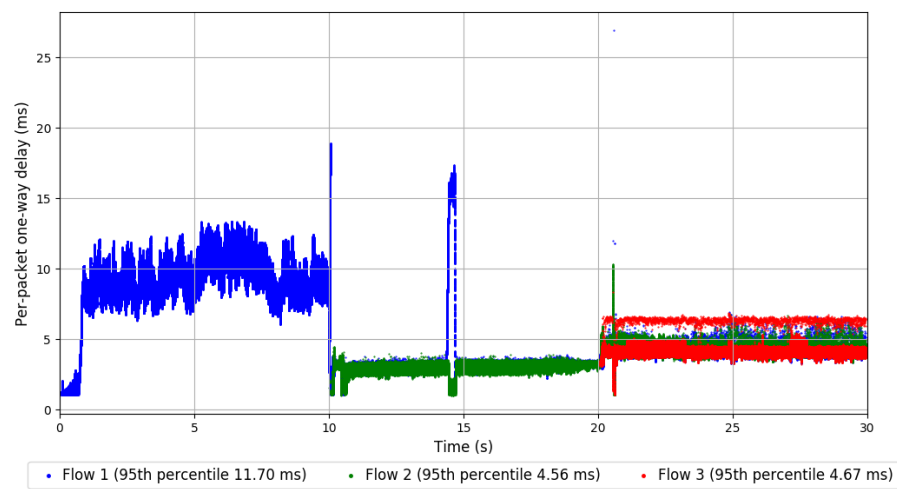
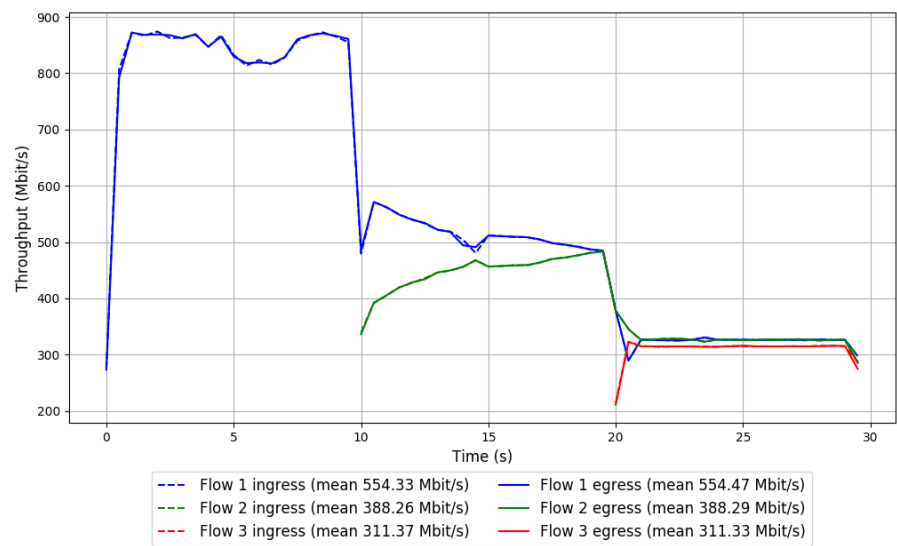


Run 6: Statistics of TCP Cubic

Start at: 2017-11-30 19:51:49
End at: 2017-11-30 19:52:19
Local clock offset: 0.092 ms
Remote clock offset: -0.934 ms

Below is generated by plot.py at 2017-12-01 01:14:31
Datalink statistics
-- Total of 3 flows:
Average throughput: 915.82 Mbit/s
95th percentile per-packet one-way delay: 11.184 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 554.47 Mbit/s
95th percentile per-packet one-way delay: 11.697 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 388.29 Mbit/s
95th percentile per-packet one-way delay: 4.556 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 311.33 Mbit/s
95th percentile per-packet one-way delay: 4.673 ms
Loss rate: 0.25%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2017-11-30 20:12:29

End at: 2017-11-30 20:12:59

Local clock offset: 0.124 ms

Remote clock offset: -1.04 ms

Below is generated by plot.py at 2017-12-01 01:24:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 826.61 Mbit/s

95th percentile per-packet one-way delay: 9.055 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 466.60 Mbit/s

95th percentile per-packet one-way delay: 9.498 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 381.80 Mbit/s

95th percentile per-packet one-way delay: 8.876 ms

Loss rate: 0.09%

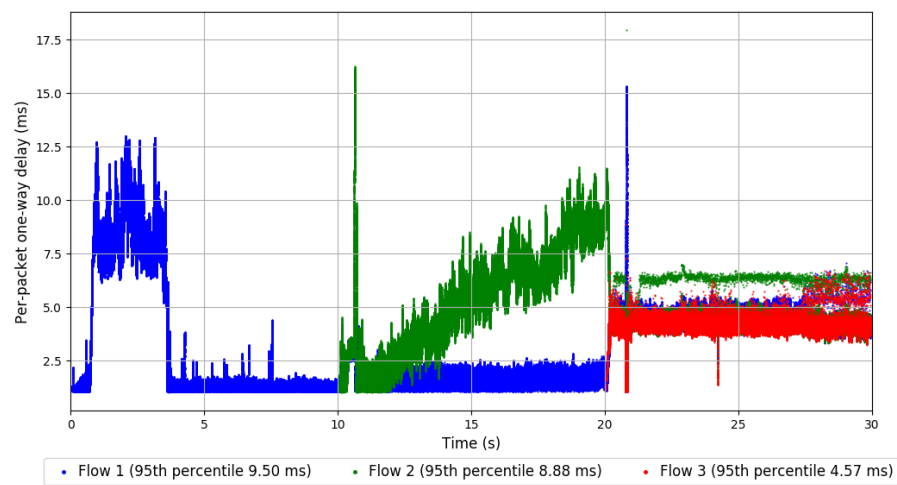
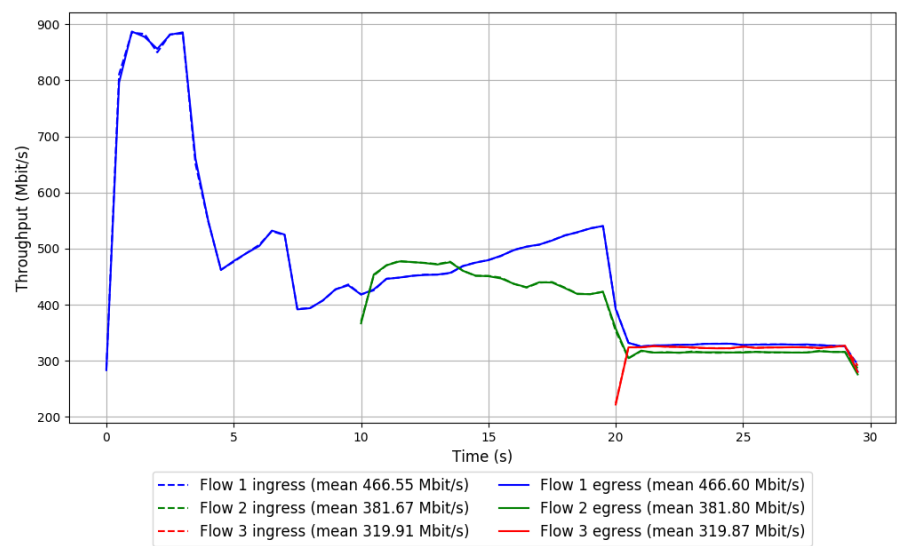
-- Flow 3:

Average throughput: 319.87 Mbit/s

95th percentile per-packet one-way delay: 4.574 ms

Loss rate: 0.21%

Run 7: Report of TCP Cubic — Data Link

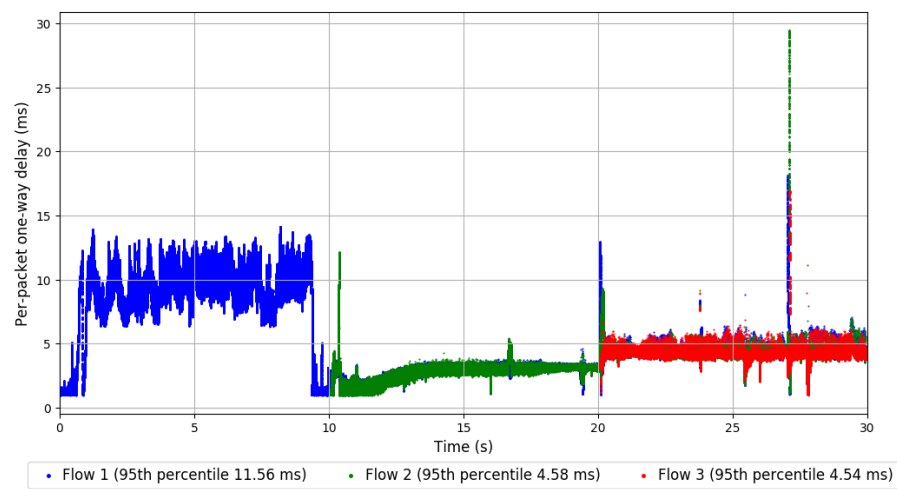
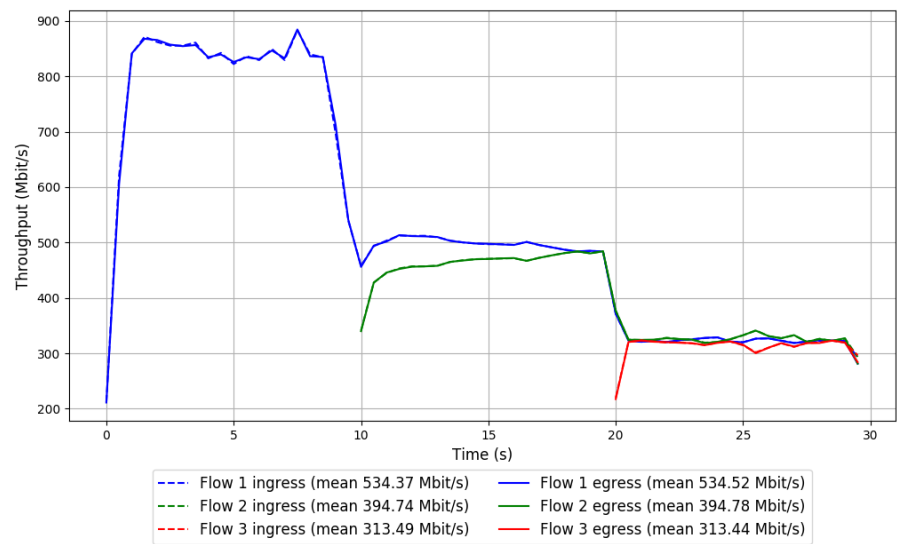


Run 8: Statistics of TCP Cubic

Start at: 2017-11-30 20:33:00
End at: 2017-11-30 20:33:30
Local clock offset: 0.198 ms
Remote clock offset: -1.013 ms

Below is generated by plot.py at 2017-12-01 01:25:44
Datalink statistics
-- Total of 3 flows:
Average throughput: 901.05 Mbit/s
95th percentile per-packet one-way delay: 11.198 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 534.52 Mbit/s
95th percentile per-packet one-way delay: 11.563 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 394.78 Mbit/s
95th percentile per-packet one-way delay: 4.582 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 313.44 Mbit/s
95th percentile per-packet one-way delay: 4.539 ms
Loss rate: 0.25%

Run 8: Report of TCP Cubic — Data Link

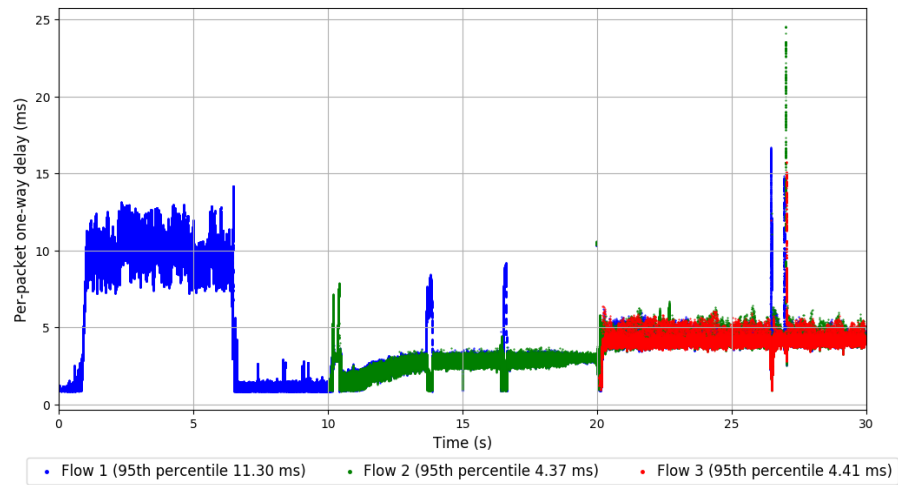
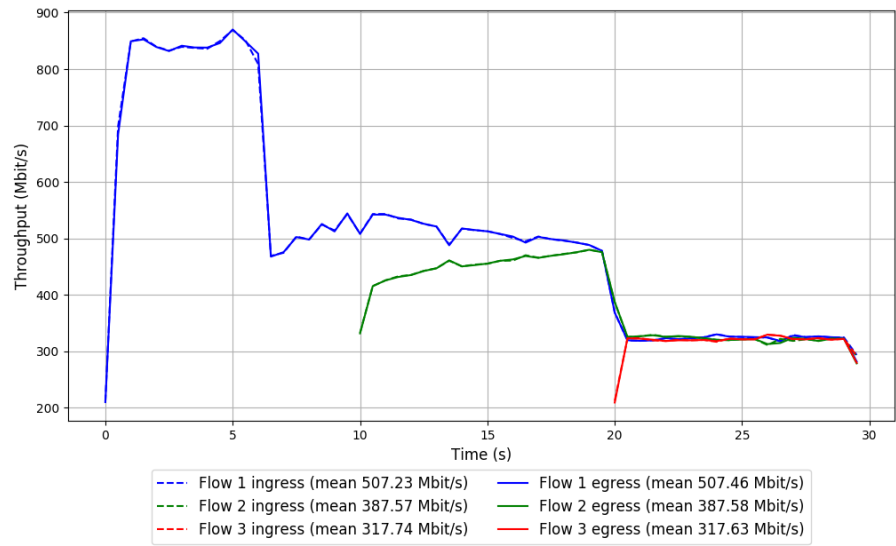


Run 9: Statistics of TCP Cubic

Start at: 2017-11-30 20:53:33
End at: 2017-11-30 20:54:03
Local clock offset: 0.003 ms
Remote clock offset: -0.692 ms

Below is generated by plot.py at 2017-12-01 01:25:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 870.34 Mbit/s
95th percentile per-packet one-way delay: 10.877 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 507.46 Mbit/s
95th percentile per-packet one-way delay: 11.299 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 387.58 Mbit/s
95th percentile per-packet one-way delay: 4.365 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 317.63 Mbit/s
95th percentile per-packet one-way delay: 4.409 ms
Loss rate: 0.24%

Run 9: Report of TCP Cubic — Data Link

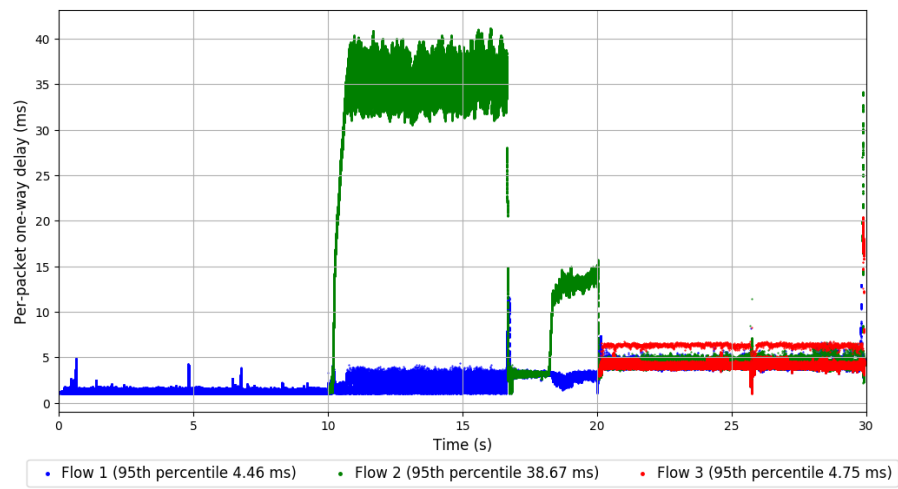
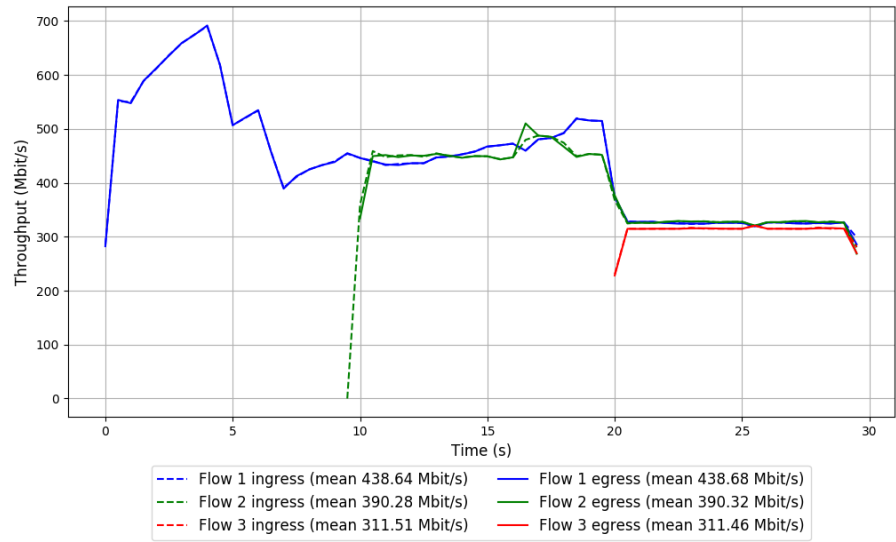


Run 10: Statistics of TCP Cubic

Start at: 2017-11-30 21:14:00
End at: 2017-11-30 21:14:30
Local clock offset: 0.057 ms
Remote clock offset: -0.913 ms

Below is generated by plot.py at 2017-12-01 01:25:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 801.69 Mbit/s
95th percentile per-packet one-way delay: 37.493 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 438.68 Mbit/s
95th percentile per-packet one-way delay: 4.465 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 390.32 Mbit/s
95th percentile per-packet one-way delay: 38.666 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 311.46 Mbit/s
95th percentile per-packet one-way delay: 4.749 ms
Loss rate: 0.23%

Run 10: Report of TCP Cubic — Data Link

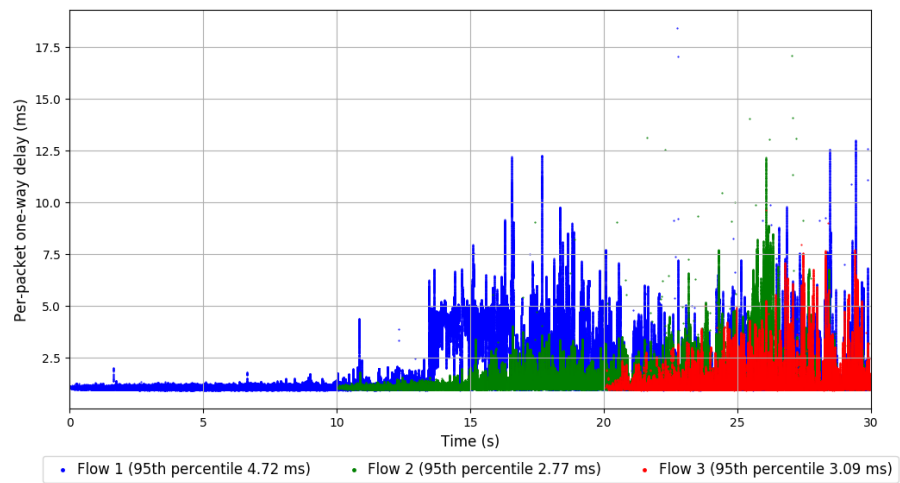
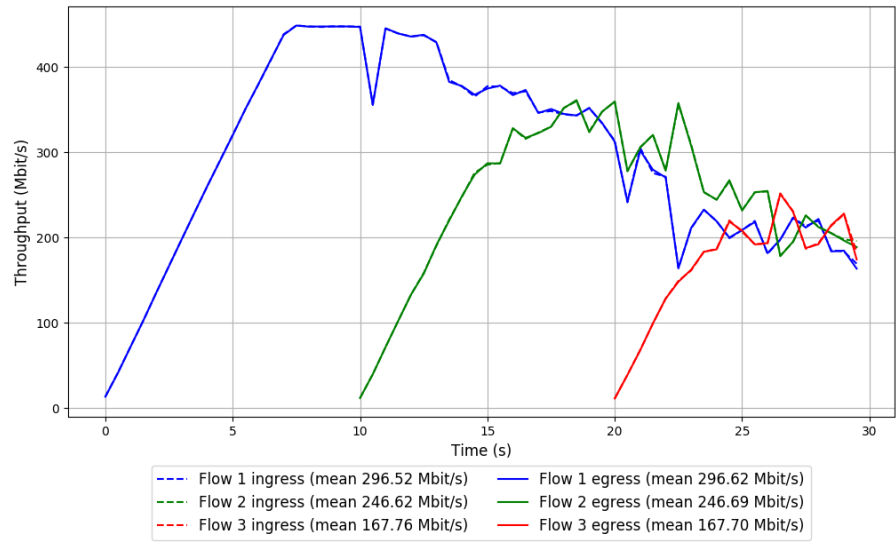


Run 1: Statistics of LEDBAT

Start at: 2017-11-30 17:55:19
End at: 2017-11-30 17:55:49
Local clock offset: 0.184 ms
Remote clock offset: -2.381 ms

Below is generated by plot.py at 2017-12-01 01:25:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 516.07 Mbit/s
95th percentile per-packet one-way delay: 4.544 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 296.62 Mbit/s
95th percentile per-packet one-way delay: 4.721 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 246.69 Mbit/s
95th percentile per-packet one-way delay: 2.770 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 167.70 Mbit/s
95th percentile per-packet one-way delay: 3.090 ms
Loss rate: 0.26%

Run 1: Report of LEDBAT — Data Link

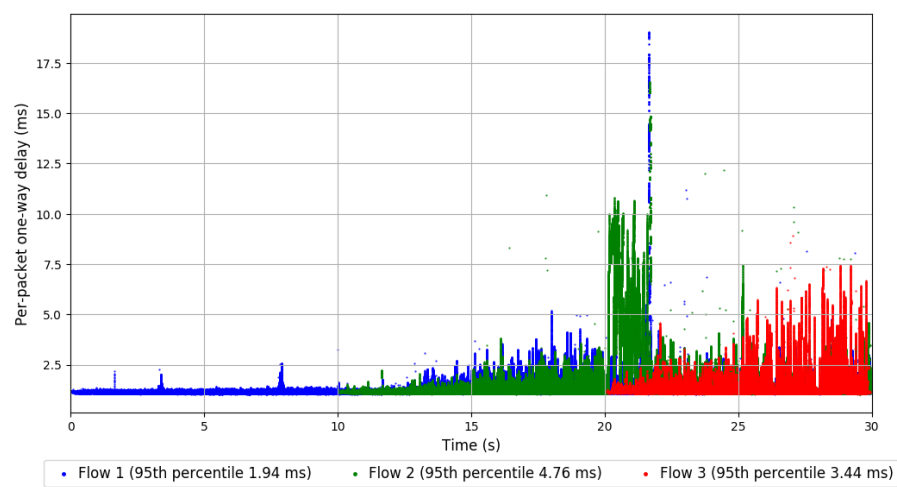
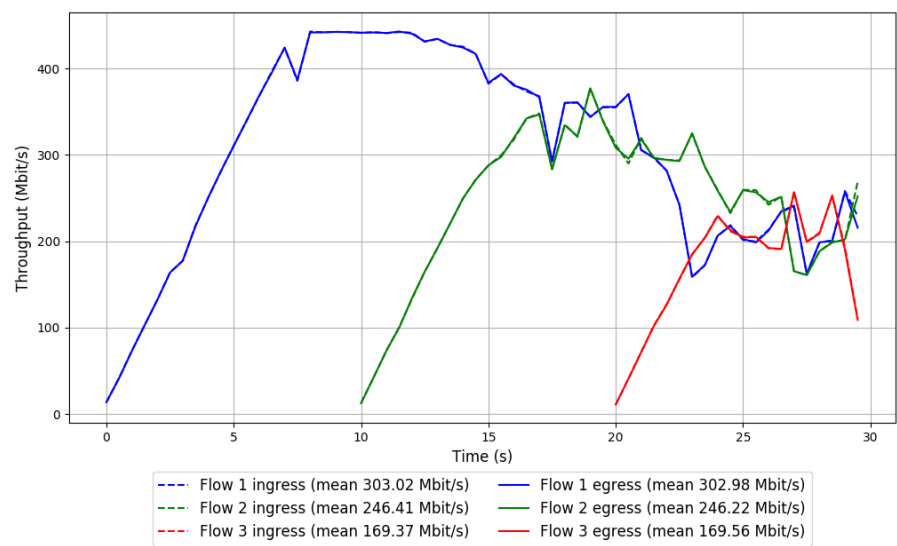


Run 2: Statistics of LEDBAT

Start at: 2017-11-30 18:15:52
End at: 2017-11-30 18:16:22
Local clock offset: 0.296 ms
Remote clock offset: -2.207 ms

Below is generated by plot.py at 2017-12-01 01:25:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 522.65 Mbit/s
95th percentile per-packet one-way delay: 2.556 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 302.98 Mbit/s
95th percentile per-packet one-way delay: 1.936 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 246.22 Mbit/s
95th percentile per-packet one-way delay: 4.763 ms
Loss rate: 0.18%
-- Flow 3:
Average throughput: 169.56 Mbit/s
95th percentile per-packet one-way delay: 3.443 ms
Loss rate: 0.13%

Run 2: Report of LEDBAT — Data Link

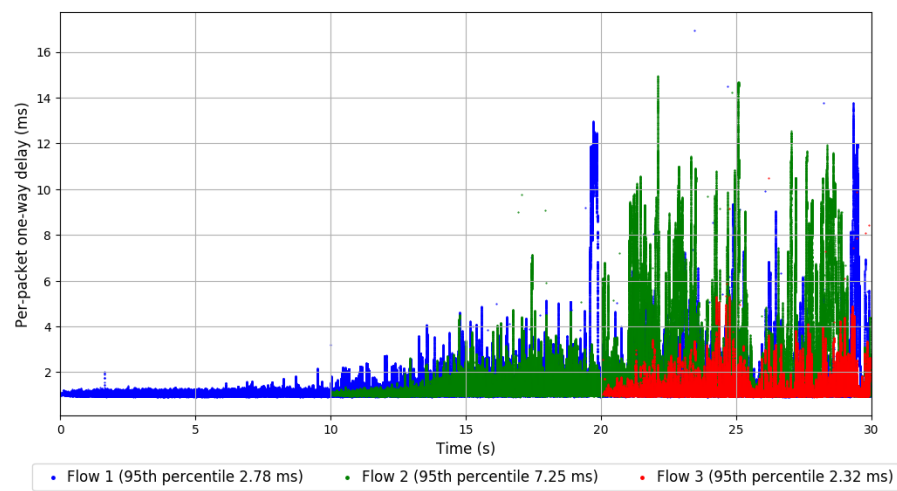
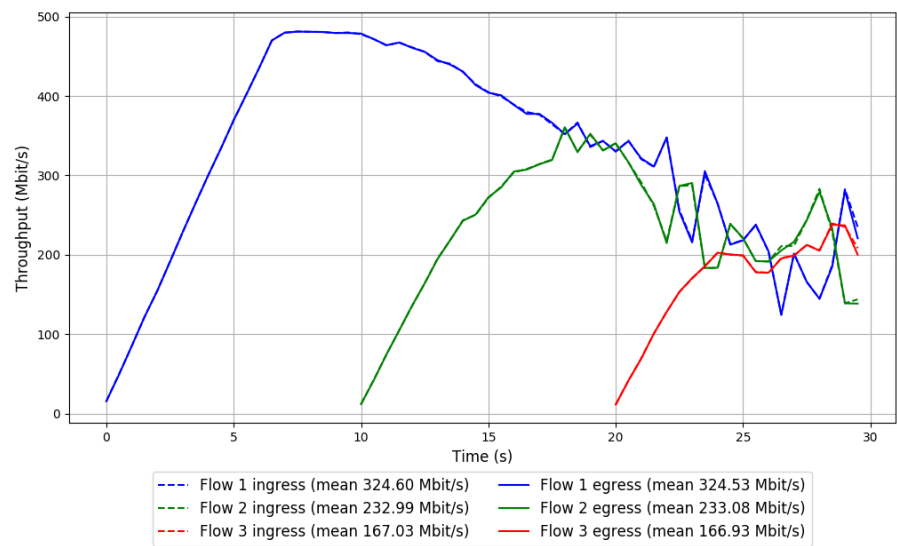


Run 3: Statistics of LEDBAT

Start at: 2017-11-30 18:36:29
End at: 2017-11-30 18:36:59
Local clock offset: 0.181 ms
Remote clock offset: -1.787 ms

Below is generated by plot.py at 2017-12-01 01:25:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 534.70 Mbit/s
95th percentile per-packet one-way delay: 4.156 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 324.53 Mbit/s
95th percentile per-packet one-way delay: 2.784 ms
Loss rate: 0.09%
-- Flow 2:
Average throughput: 233.08 Mbit/s
95th percentile per-packet one-way delay: 7.253 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 166.93 Mbit/s
95th percentile per-packet one-way delay: 2.322 ms
Loss rate: 0.26%

Run 3: Report of LEDBAT — Data Link

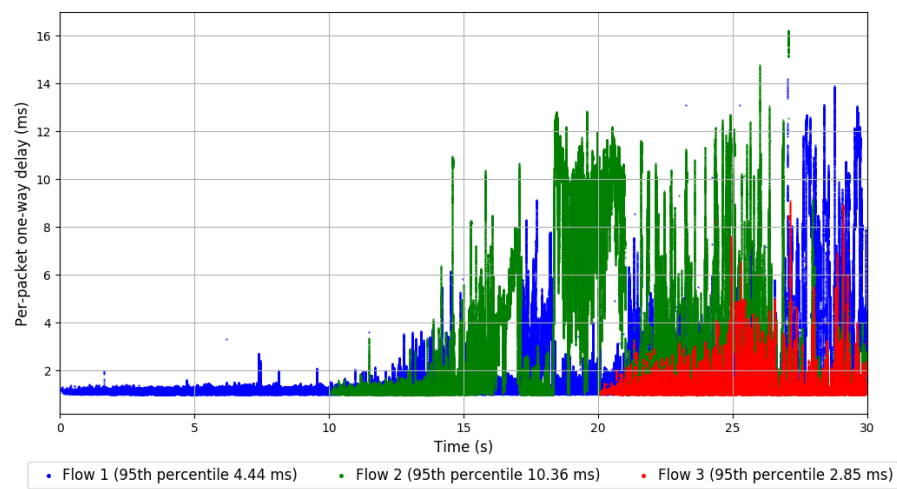
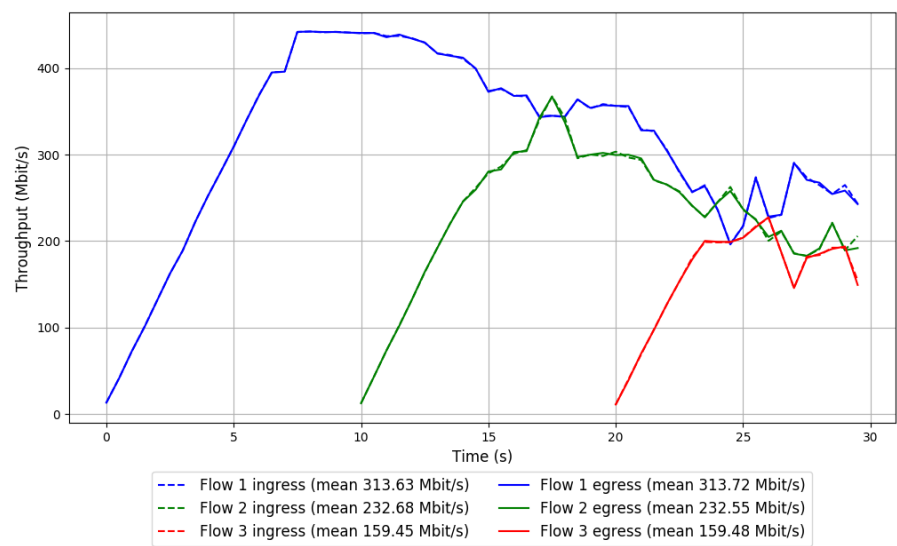


Run 4: Statistics of LEDBAT

Start at: 2017-11-30 18:57:19
End at: 2017-11-30 18:57:49
Local clock offset: 0.176 ms
Remote clock offset: -1.615 ms

Below is generated by plot.py at 2017-12-01 01:25:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 521.07 Mbit/s
95th percentile per-packet one-way delay: 8.516 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 313.72 Mbit/s
95th percentile per-packet one-way delay: 4.443 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 232.55 Mbit/s
95th percentile per-packet one-way delay: 10.359 ms
Loss rate: 0.16%
-- Flow 3:
Average throughput: 159.48 Mbit/s
95th percentile per-packet one-way delay: 2.851 ms
Loss rate: 0.18%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2017-11-30 19:17:57

End at: 2017-11-30 19:18:27

Local clock offset: 0.116 ms

Remote clock offset: -1.1 ms

Below is generated by plot.py at 2017-12-01 01:28:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 535.38 Mbit/s

95th percentile per-packet one-way delay: 5.539 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 324.91 Mbit/s

95th percentile per-packet one-way delay: 3.065 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 232.60 Mbit/s

95th percentile per-packet one-way delay: 8.544 ms

Loss rate: 0.12%

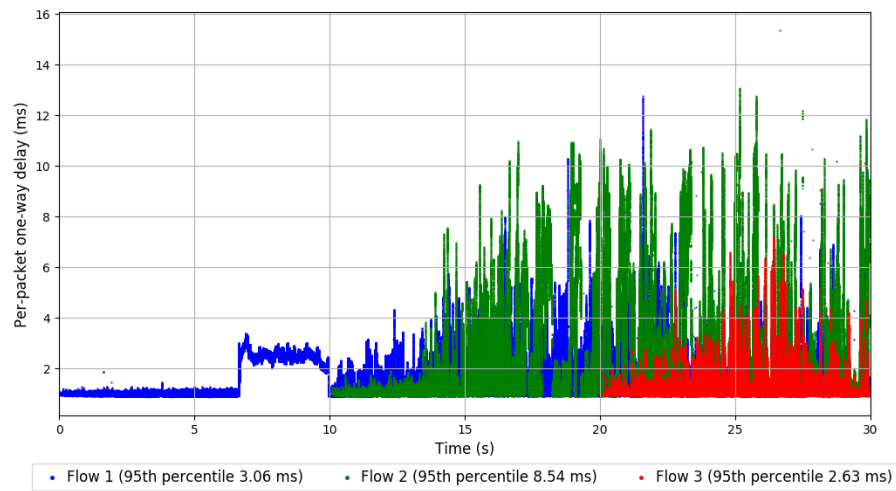
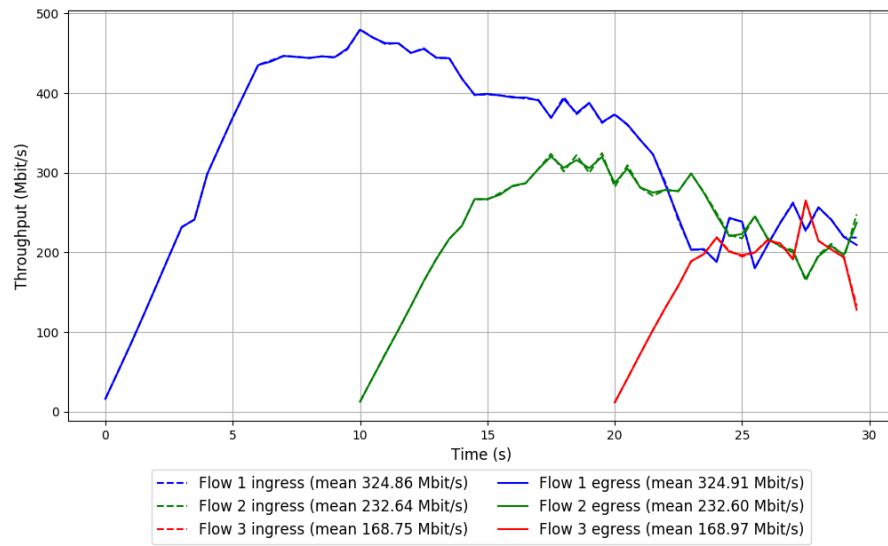
-- Flow 3:

Average throughput: 168.97 Mbit/s

95th percentile per-packet one-way delay: 2.634 ms

Loss rate: 0.16%

Run 5: Report of LEDBAT — Data Link

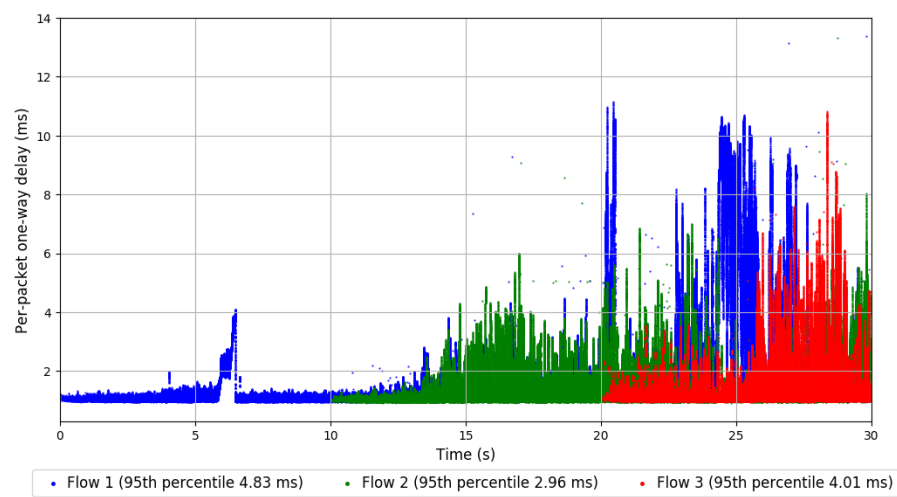
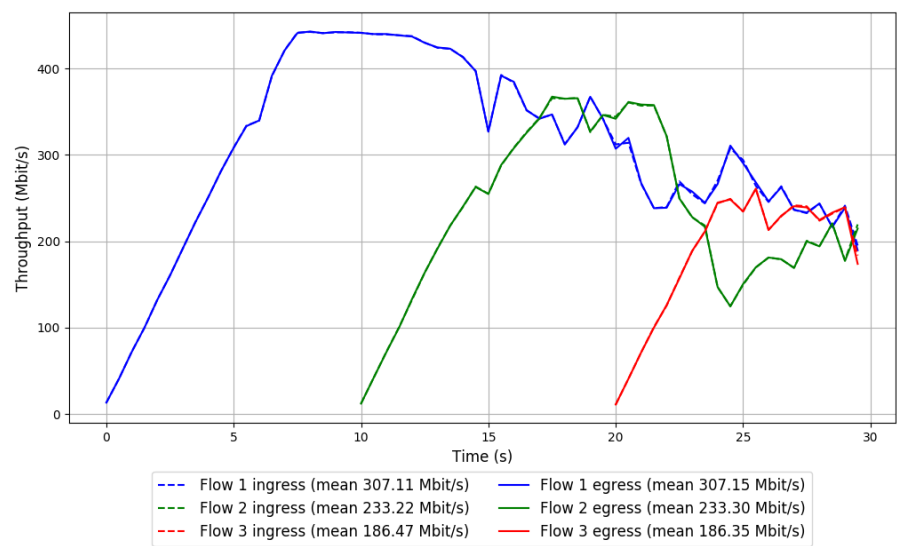


Run 6: Statistics of LEDBAT

Start at: 2017-11-30 19:38:37
End at: 2017-11-30 19:39:07
Local clock offset: 0.066 ms
Remote clock offset: -0.887 ms

Below is generated by plot.py at 2017-12-01 01:28:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 523.87 Mbit/s
95th percentile per-packet one-way delay: 3.877 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 307.15 Mbit/s
95th percentile per-packet one-way delay: 4.833 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 233.30 Mbit/s
95th percentile per-packet one-way delay: 2.963 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 186.35 Mbit/s
95th percentile per-packet one-way delay: 4.012 ms
Loss rate: 0.26%

Run 6: Report of LEDBAT — Data Link

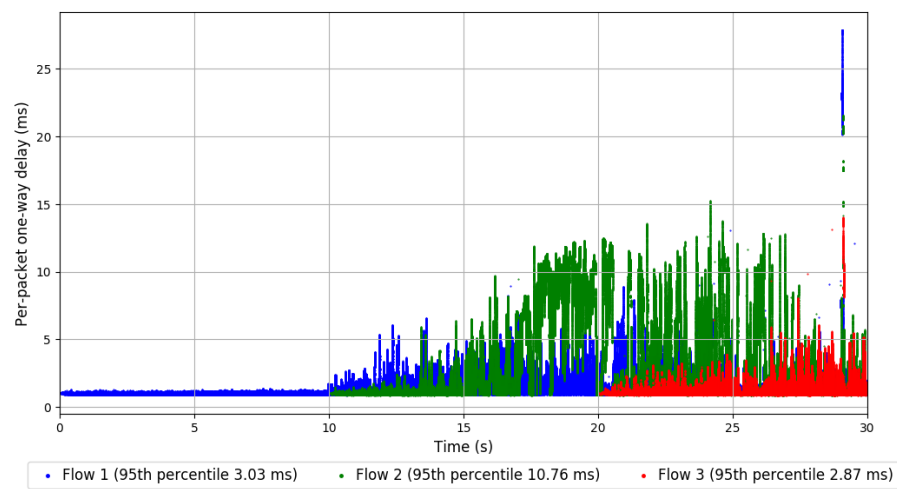
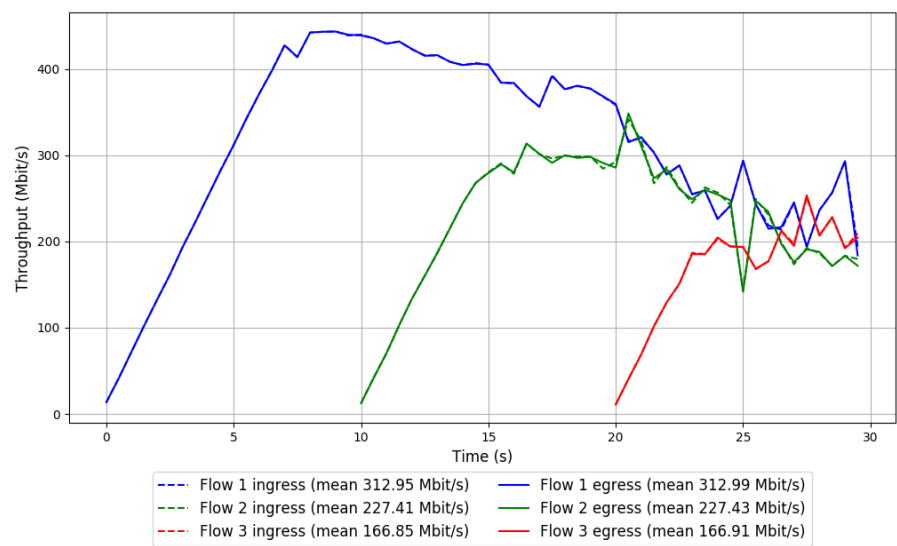


Run 7: Statistics of LEDBAT

Start at: 2017-11-30 19:59:18
End at: 2017-11-30 19:59:48
Local clock offset: -0.015 ms
Remote clock offset: -0.96 ms

Below is generated by plot.py at 2017-12-01 01:29:10
Datalink statistics
-- Total of 3 flows:
Average throughput: 519.36 Mbit/s
95th percentile per-packet one-way delay: 8.469 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 312.99 Mbit/s
95th percentile per-packet one-way delay: 3.033 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 227.43 Mbit/s
95th percentile per-packet one-way delay: 10.763 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 166.91 Mbit/s
95th percentile per-packet one-way delay: 2.869 ms
Loss rate: 0.17%

Run 7: Report of LEDBAT — Data Link

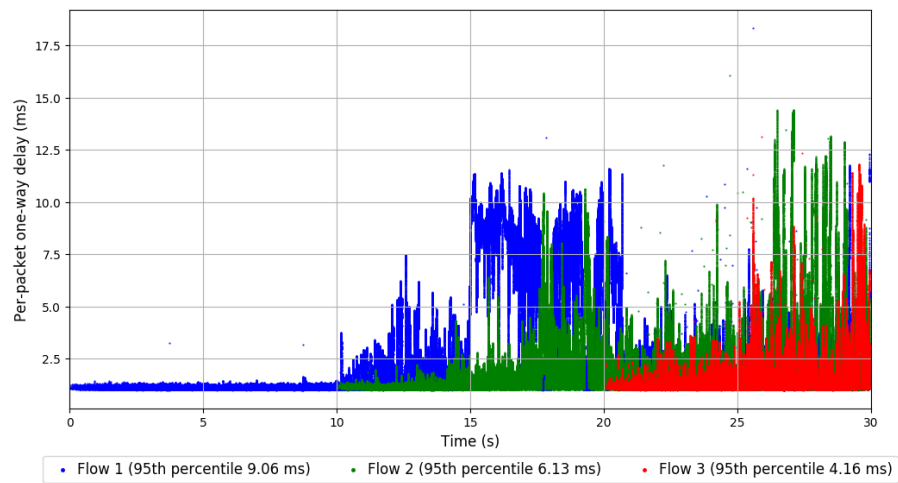
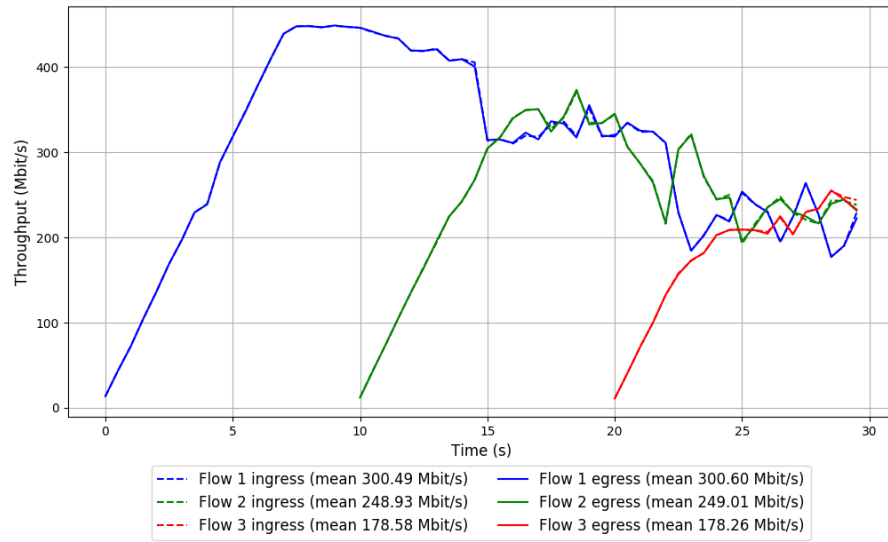


Run 8: Statistics of LEDBAT

Start at: 2017-11-30 20:19:51
End at: 2017-11-30 20:20:21
Local clock offset: 0.167 ms
Remote clock offset: -1.028 ms

Below is generated by plot.py at 2017-12-01 01:29:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 525.11 Mbit/s
95th percentile per-packet one-way delay: 8.623 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 300.60 Mbit/s
95th percentile per-packet one-way delay: 9.062 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 249.01 Mbit/s
95th percentile per-packet one-way delay: 6.135 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 178.26 Mbit/s
95th percentile per-packet one-way delay: 4.161 ms
Loss rate: 0.40%

Run 8: Report of LEDBAT — Data Link

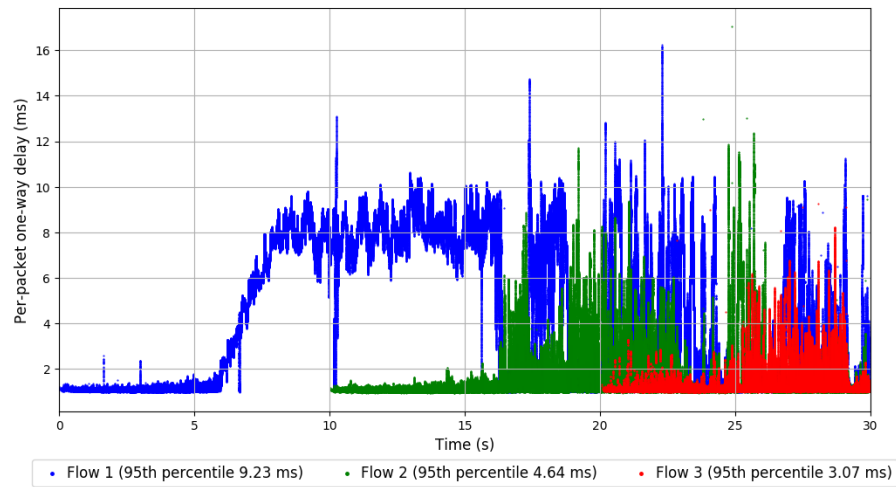
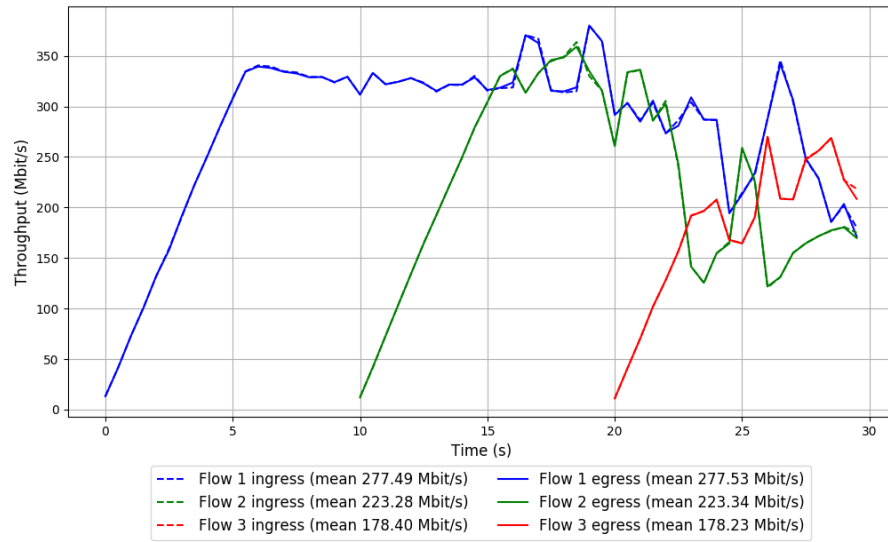


Run 9: Statistics of LEDBAT

Start at: 2017-11-30 20:40:25
End at: 2017-11-30 20:40:55
Local clock offset: 0.072 ms
Remote clock offset: -0.997 ms

Below is generated by plot.py at 2017-12-01 01:31:08
Datalink statistics
-- Total of 3 flows:
Average throughput: 484.96 Mbit/s
95th percentile per-packet one-way delay: 8.920 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 277.53 Mbit/s
95th percentile per-packet one-way delay: 9.235 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 223.34 Mbit/s
95th percentile per-packet one-way delay: 4.642 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 178.23 Mbit/s
95th percentile per-packet one-way delay: 3.074 ms
Loss rate: 0.29%

Run 9: Report of LEDBAT — Data Link

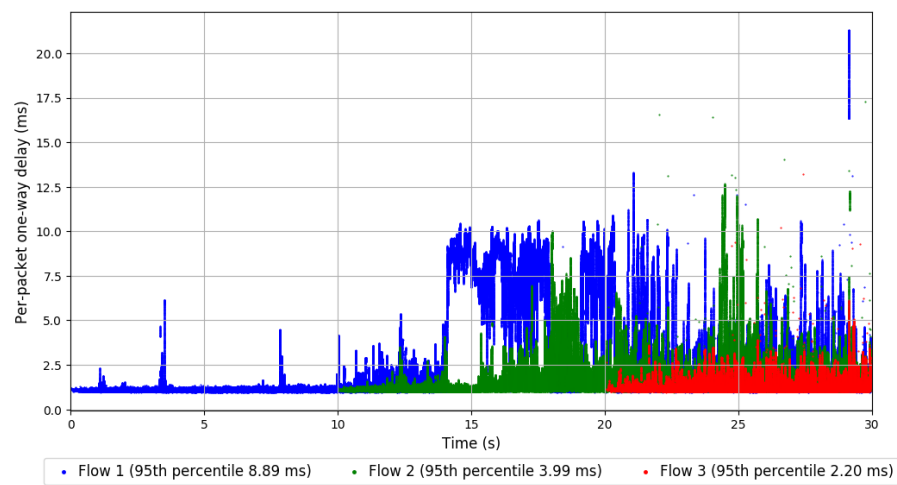
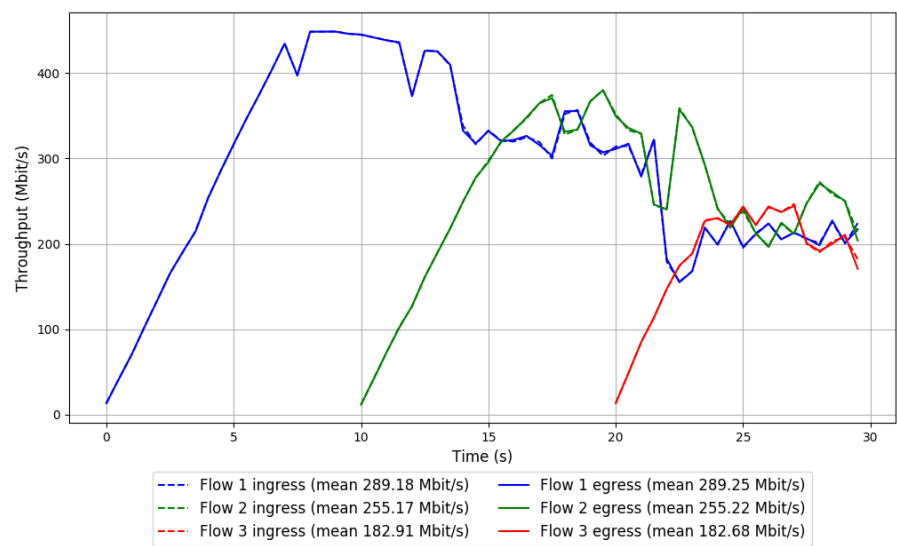


Run 10: Statistics of LEDBAT

Start at: 2017-11-30 21:00:43
End at: 2017-11-30 21:01:13
Local clock offset: 0.052 ms
Remote clock offset: -0.921 ms

Below is generated by plot.py at 2017-12-01 01:32:06
Datalink statistics
-- Total of 3 flows:
Average throughput: 519.38 Mbit/s
95th percentile per-packet one-way delay: 8.413 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 289.25 Mbit/s
95th percentile per-packet one-way delay: 8.888 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 255.22 Mbit/s
95th percentile per-packet one-way delay: 3.994 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 182.68 Mbit/s
95th percentile per-packet one-way delay: 2.202 ms
Loss rate: 0.32%

Run 10: Report of LEDBAT — Data Link

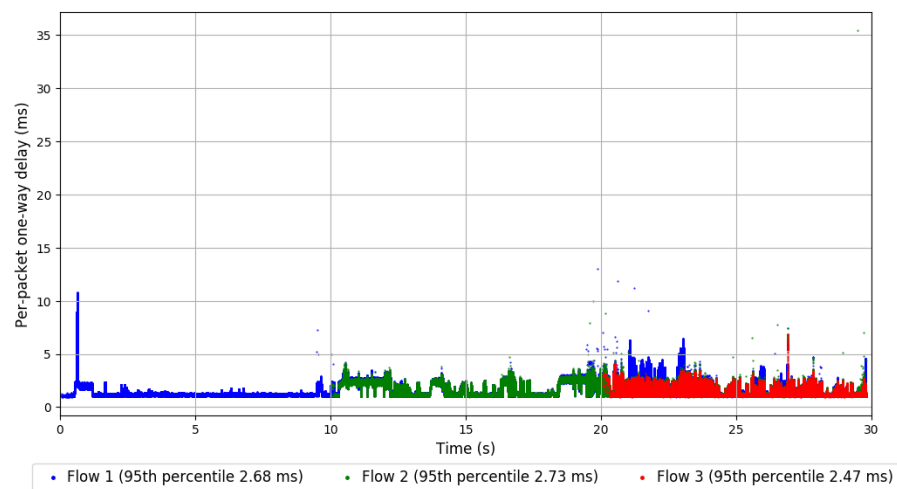
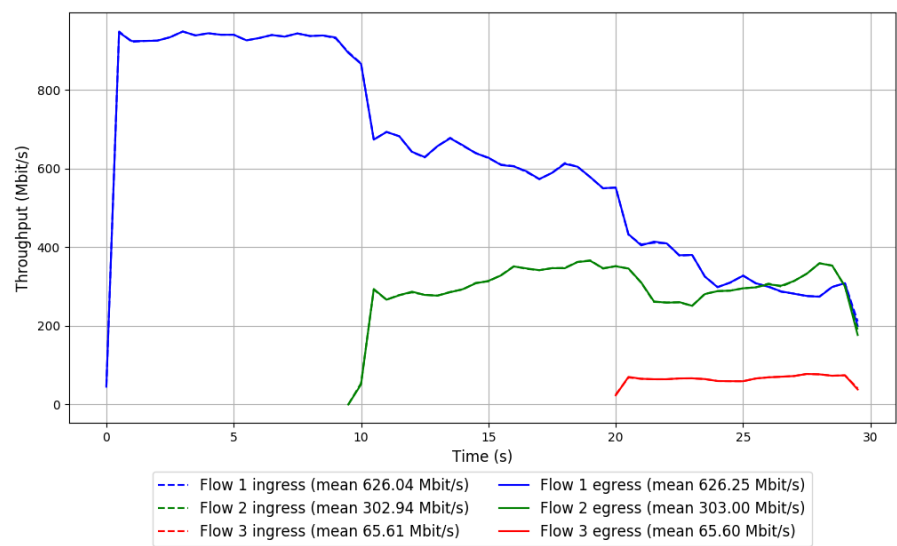


Run 1: Statistics of PCC

Start at: 2017-11-30 17:52:15
End at: 2017-11-30 17:52:45
Local clock offset: 0.256 ms
Remote clock offset: -2.447 ms

Below is generated by plot.py at 2017-12-01 01:36:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 849.15 Mbit/s
95th percentile per-packet one-way delay: 2.695 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 626.25 Mbit/s
95th percentile per-packet one-way delay: 2.684 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 303.00 Mbit/s
95th percentile per-packet one-way delay: 2.725 ms
Loss rate: 0.11%
-- Flow 3:
Average throughput: 65.60 Mbit/s
95th percentile per-packet one-way delay: 2.472 ms
Loss rate: 0.24%

Run 1: Report of PCC — Data Link

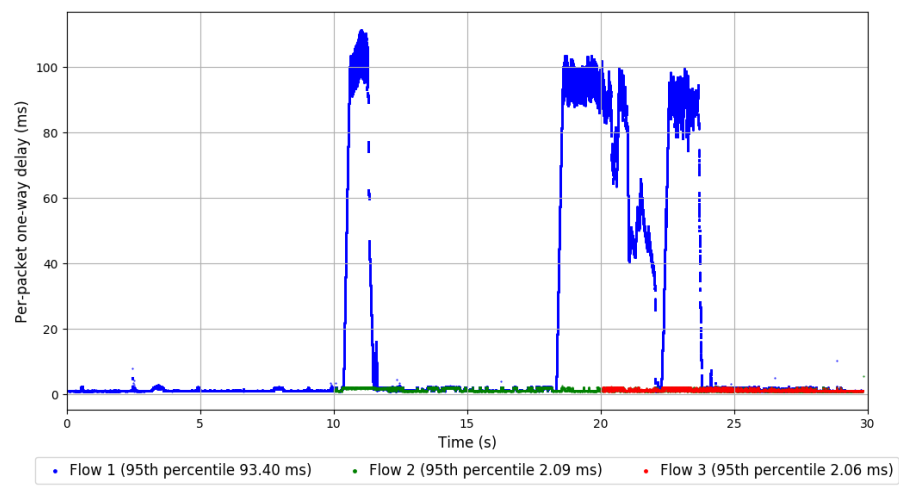
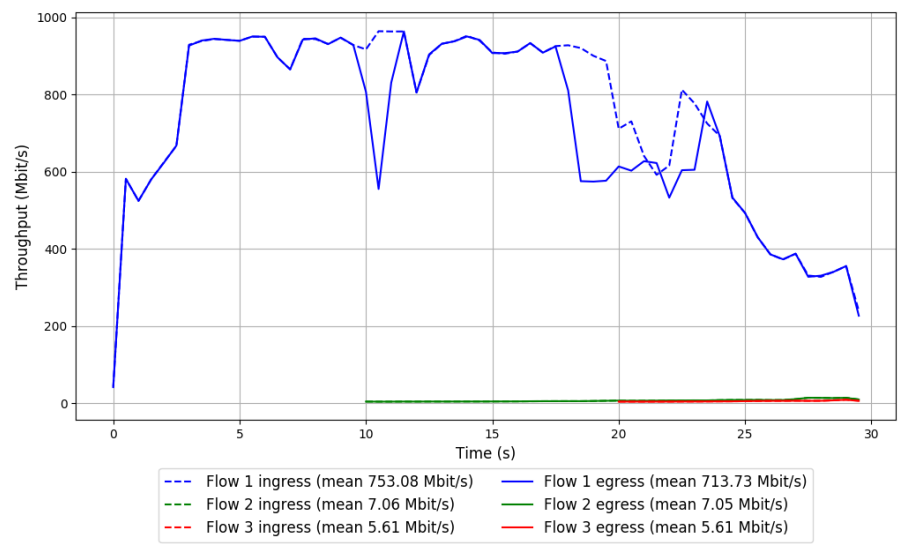


Run 2: Statistics of PCC

Start at: 2017-11-30 18:12:53
End at: 2017-11-30 18:13:23
Local clock offset: 0.21 ms
Remote clock offset: -2.229 ms

Below is generated by plot.py at 2017-12-01 01:36:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 720.13 Mbit/s
95th percentile per-packet one-way delay: 93.326 ms
Loss rate: 5.25%
-- Flow 1:
Average throughput: 713.73 Mbit/s
95th percentile per-packet one-way delay: 93.400 ms
Loss rate: 5.29%
-- Flow 2:
Average throughput: 7.05 Mbit/s
95th percentile per-packet one-way delay: 2.087 ms
Loss rate: 0.19%
-- Flow 3:
Average throughput: 5.61 Mbit/s
95th percentile per-packet one-way delay: 2.065 ms
Loss rate: 0.35%

Run 2: Report of PCC — Data Link

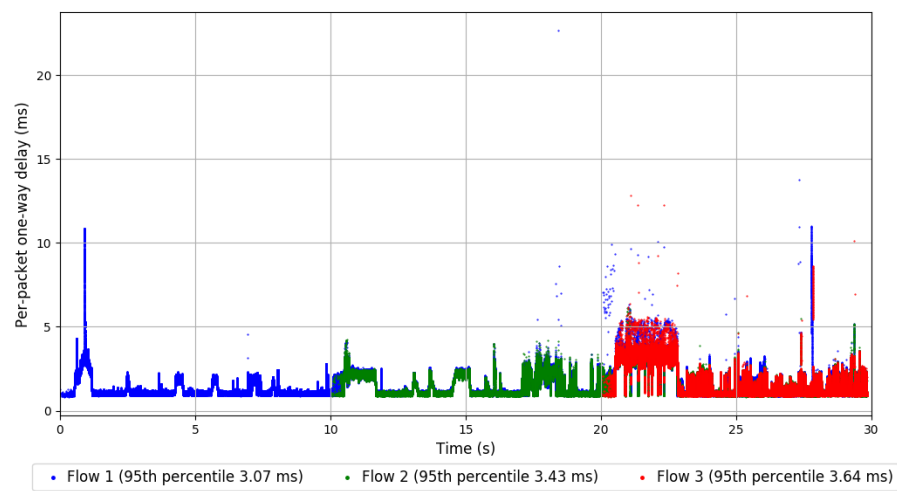
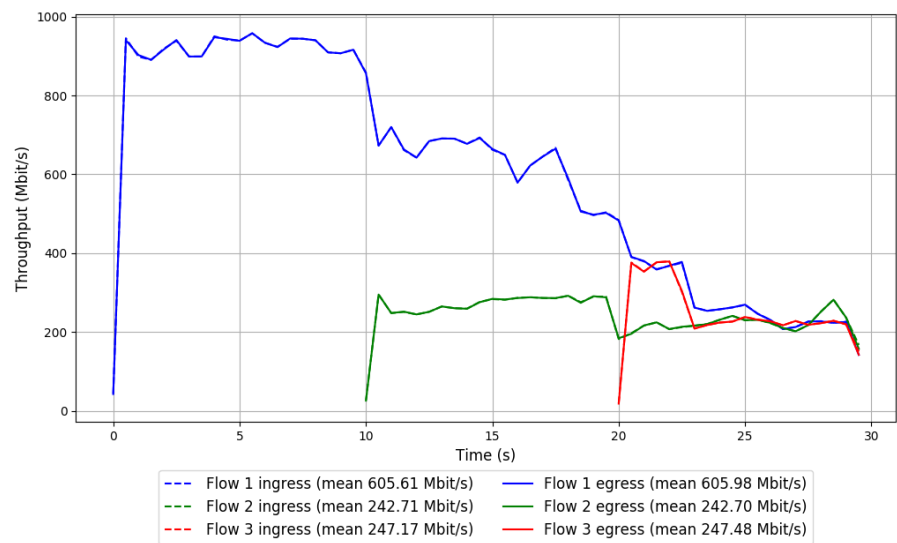


Run 3: Statistics of PCC

Start at: 2017-11-30 18:33:28
End at: 2017-11-30 18:33:58
Local clock offset: 0.197 ms
Remote clock offset: -1.718 ms

Below is generated by plot.py at 2017-12-01 01:40:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 848.27 Mbit/s
95th percentile per-packet one-way delay: 3.370 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 605.98 Mbit/s
95th percentile per-packet one-way delay: 3.067 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 242.70 Mbit/s
95th percentile per-packet one-way delay: 3.433 ms
Loss rate: 0.11%
-- Flow 3:
Average throughput: 247.48 Mbit/s
95th percentile per-packet one-way delay: 3.638 ms
Loss rate: 0.18%

Run 3: Report of PCC — Data Link

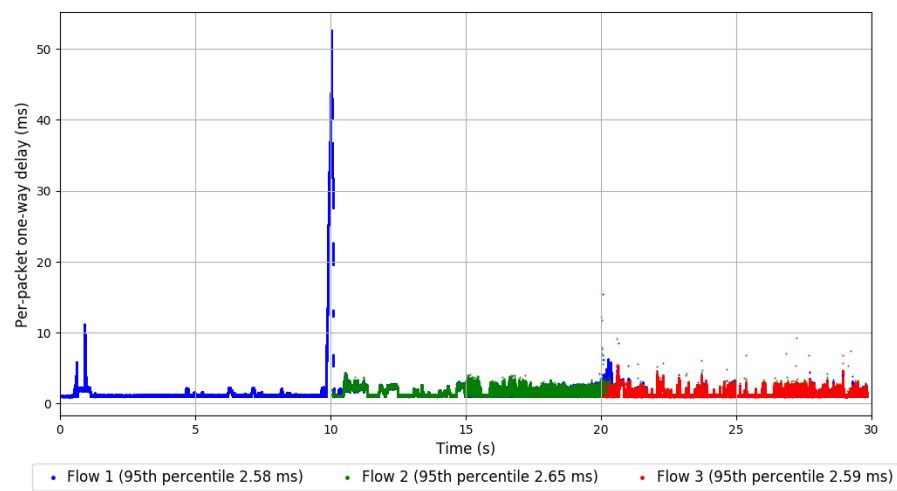
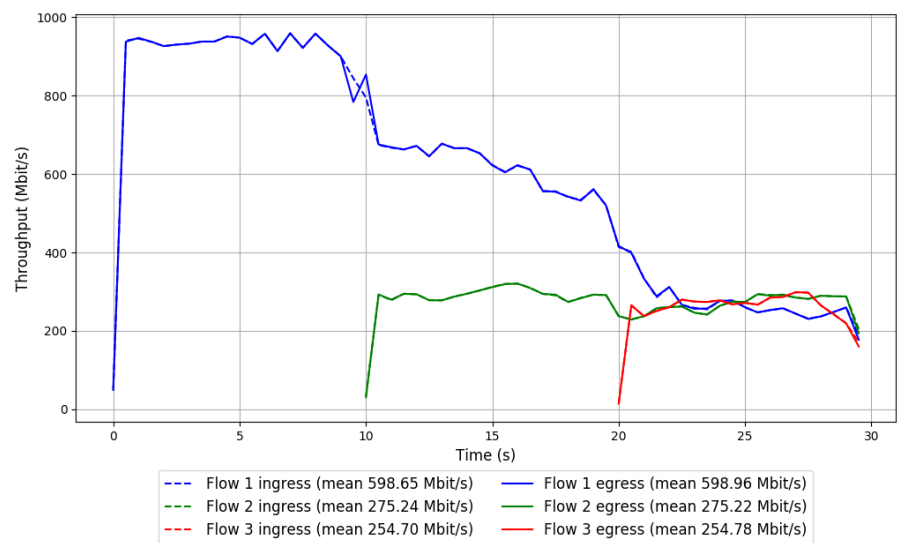


Run 4: Statistics of PCC

Start at: 2017-11-30 18:54:15
End at: 2017-11-30 18:54:45
Local clock offset: 0.231 ms
Remote clock offset: -1.595 ms

Below is generated by plot.py at 2017-12-01 01:41:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 865.45 Mbit/s
95th percentile per-packet one-way delay: 2.599 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 598.96 Mbit/s
95th percentile per-packet one-way delay: 2.576 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 275.22 Mbit/s
95th percentile per-packet one-way delay: 2.651 ms
Loss rate: 0.11%
-- Flow 3:
Average throughput: 254.78 Mbit/s
95th percentile per-packet one-way delay: 2.589 ms
Loss rate: 0.23%

Run 4: Report of PCC — Data Link

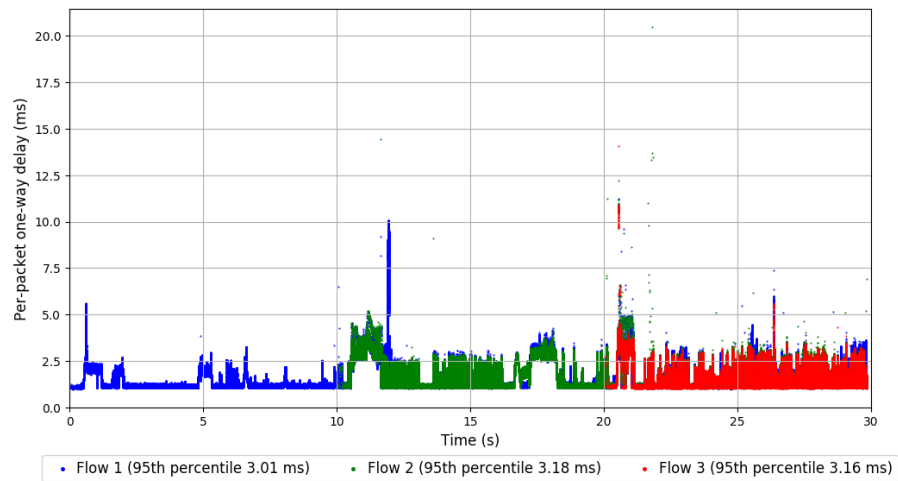
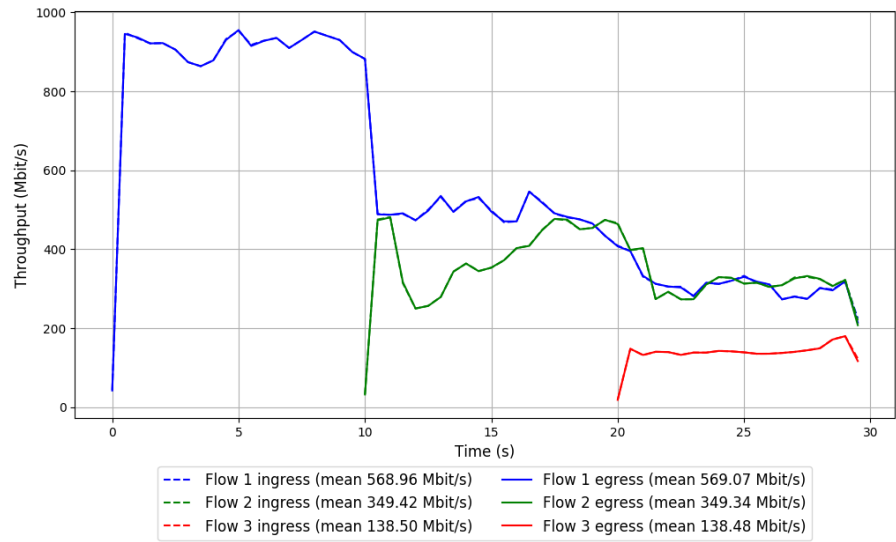


Run 5: Statistics of PCC

Start at: 2017-11-30 19:14:53
End at: 2017-11-30 19:15:23
Local clock offset: 0.204 ms
Remote clock offset: -1.198 ms

Below is generated by plot.py at 2017-12-01 01:41:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 846.52 Mbit/s
95th percentile per-packet one-way delay: 3.083 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 569.07 Mbit/s
95th percentile per-packet one-way delay: 3.006 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 349.34 Mbit/s
95th percentile per-packet one-way delay: 3.184 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 138.48 Mbit/s
95th percentile per-packet one-way delay: 3.159 ms
Loss rate: 0.26%

Run 5: Report of PCC — Data Link

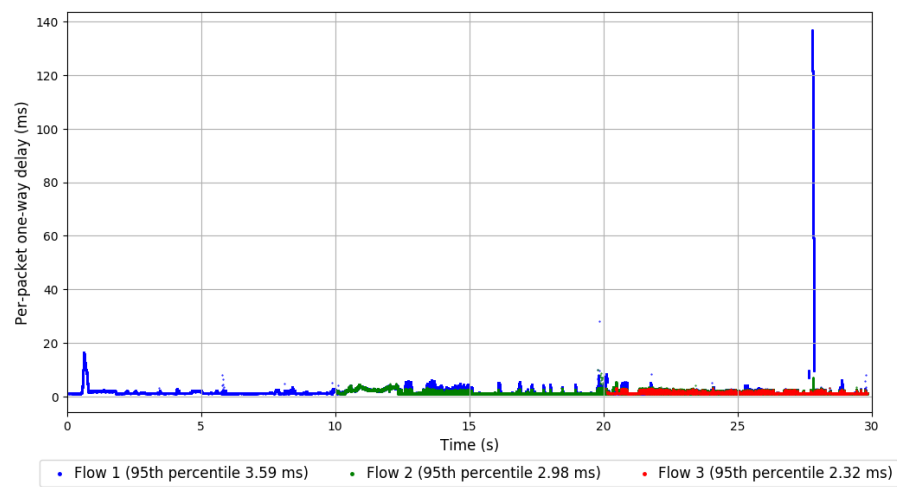
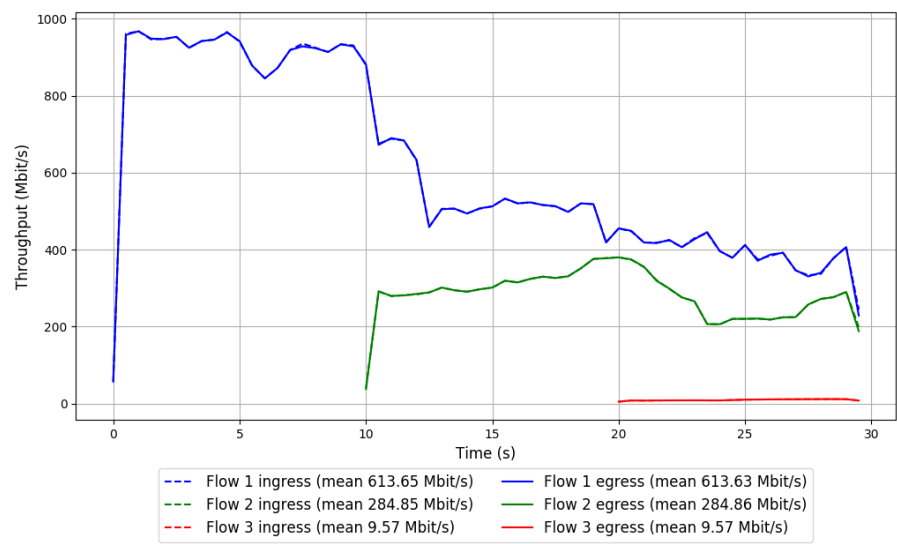


Run 6: Statistics of PCC

Start at: 2017-11-30 19:35:35
End at: 2017-11-30 19:36:05
Local clock offset: 0.15 ms
Remote clock offset: -1.009 ms

Below is generated by plot.py at 2017-12-01 01:41:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 806.06 Mbit/s
95th percentile per-packet one-way delay: 3.459 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 613.63 Mbit/s
95th percentile per-packet one-way delay: 3.588 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 284.86 Mbit/s
95th percentile per-packet one-way delay: 2.978 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 9.57 Mbit/s
95th percentile per-packet one-way delay: 2.322 ms
Loss rate: 0.25%

Run 6: Report of PCC — Data Link

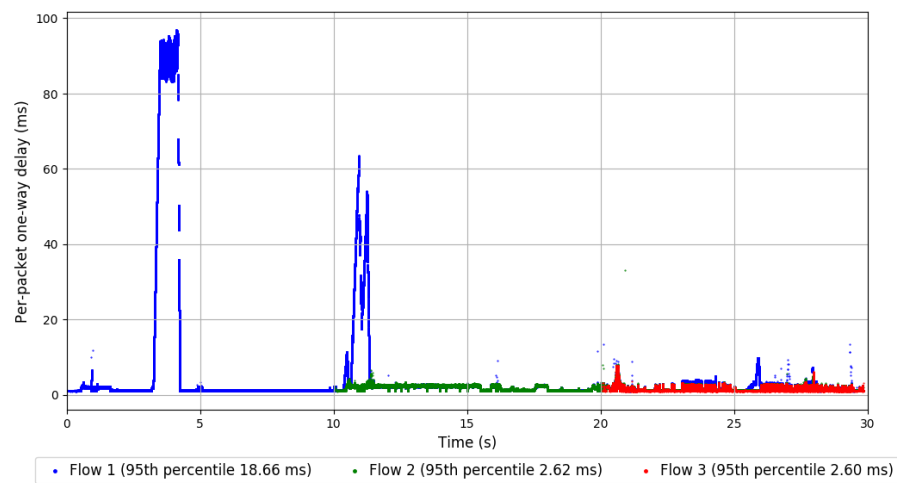
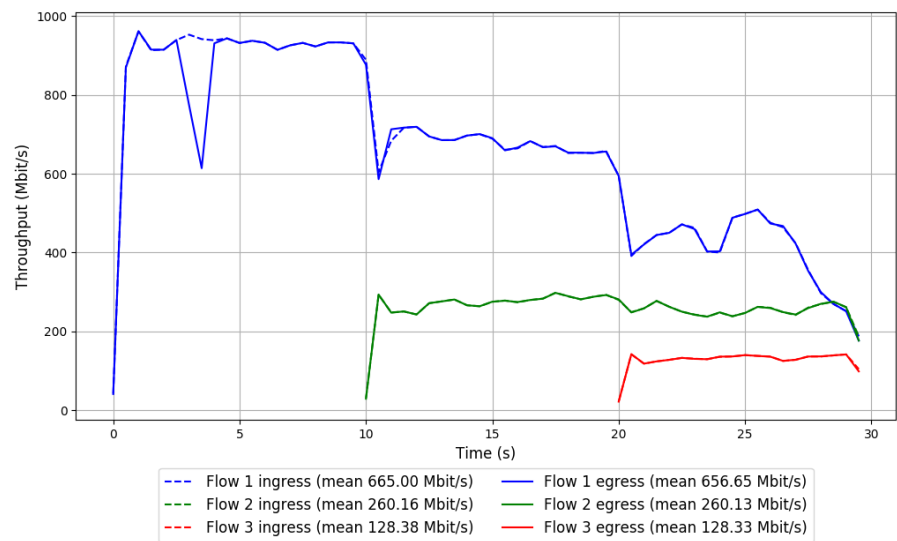


Run 7: Statistics of PCC

Start at: 2017-11-30 19:56:14
End at: 2017-11-30 19:56:44
Local clock offset: 0.071 ms
Remote clock offset: -0.926 ms

Below is generated by plot.py at 2017-12-01 01:44:02
Datalink statistics
-- Total of 3 flows:
Average throughput: 871.54 Mbit/s
95th percentile per-packet one-way delay: 4.108 ms
Loss rate: 1.03%
-- Flow 1:
Average throughput: 656.65 Mbit/s
95th percentile per-packet one-way delay: 18.660 ms
Loss rate: 1.32%
-- Flow 2:
Average throughput: 260.13 Mbit/s
95th percentile per-packet one-way delay: 2.625 ms
Loss rate: 0.11%
-- Flow 3:
Average throughput: 128.33 Mbit/s
95th percentile per-packet one-way delay: 2.601 ms
Loss rate: 0.24%

Run 7: Report of PCC — Data Link

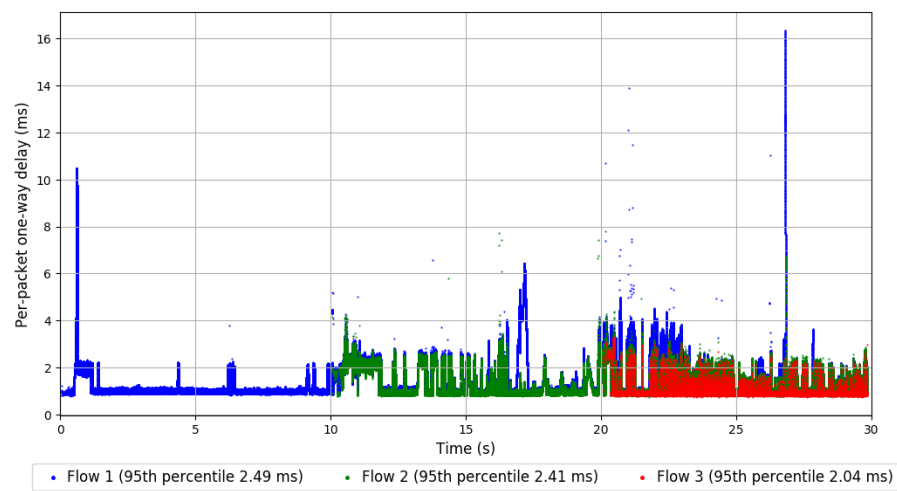
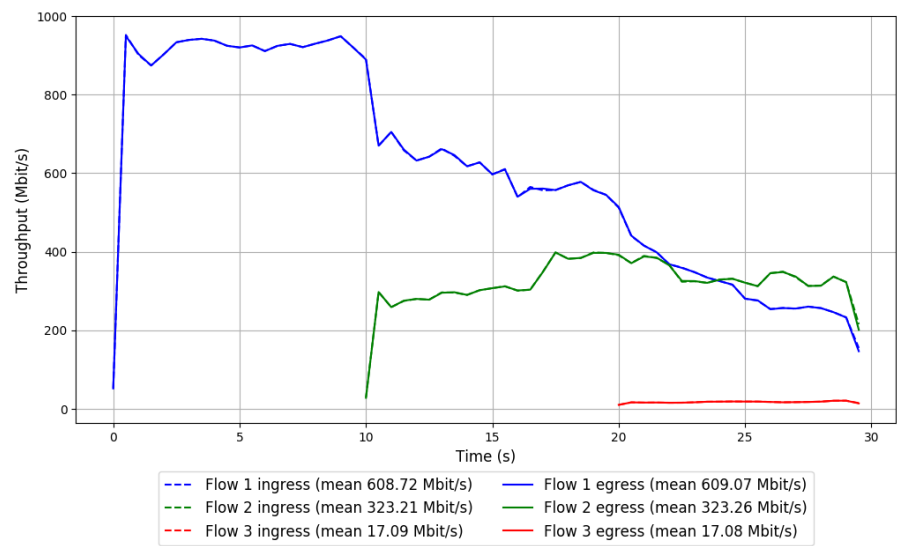


Run 8: Statistics of PCC

Start at: 2017-11-30 20:16:49
End at: 2017-11-30 20:17:19
Local clock offset: 0.048 ms
Remote clock offset: -0.886 ms

Below is generated by plot.py at 2017-12-01 01:44:33
Datalink statistics
-- Total of 3 flows:
Average throughput: 829.39 Mbit/s
95th percentile per-packet one-way delay: 2.466 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 609.07 Mbit/s
95th percentile per-packet one-way delay: 2.493 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 323.26 Mbit/s
95th percentile per-packet one-way delay: 2.412 ms
Loss rate: 0.12%
-- Flow 3:
Average throughput: 17.08 Mbit/s
95th percentile per-packet one-way delay: 2.041 ms
Loss rate: 0.25%

Run 8: Report of PCC — Data Link

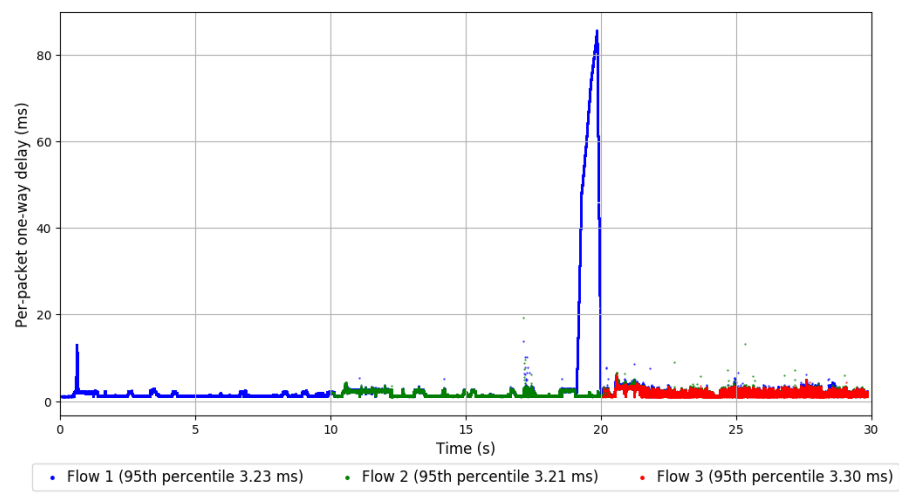
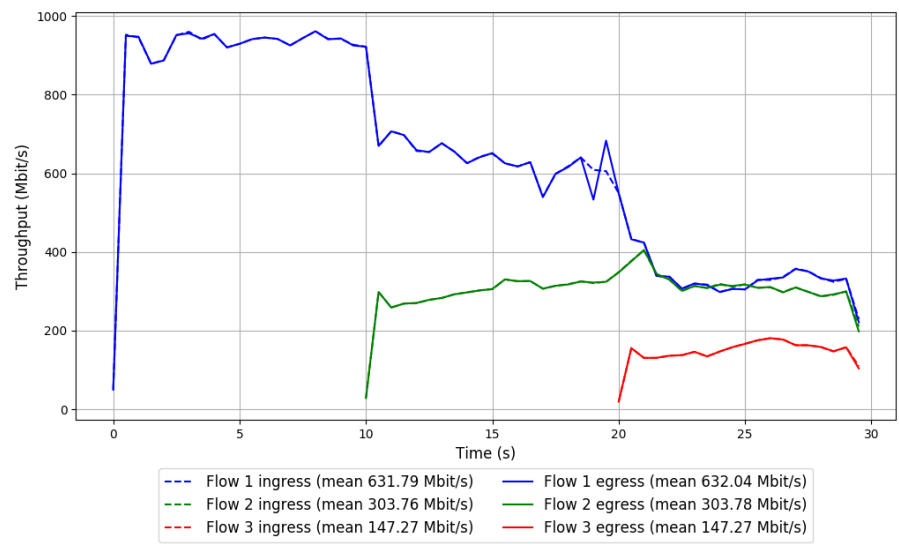


Run 9: Statistics of PCC

Start at: 2017-11-30 20:37:23
End at: 2017-11-30 20:37:53
Local clock offset: 0.176 ms
Remote clock offset: -1.054 ms

Below is generated by plot.py at 2017-12-01 01:49:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 882.22 Mbit/s
95th percentile per-packet one-way delay: 3.235 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 632.04 Mbit/s
95th percentile per-packet one-way delay: 3.231 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 303.78 Mbit/s
95th percentile per-packet one-way delay: 3.211 ms
Loss rate: 0.11%
-- Flow 3:
Average throughput: 147.27 Mbit/s
95th percentile per-packet one-way delay: 3.301 ms
Loss rate: 0.22%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

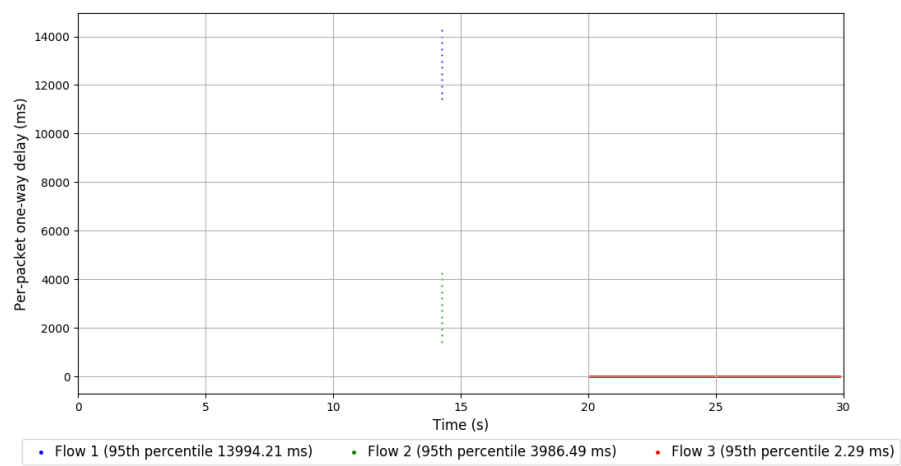
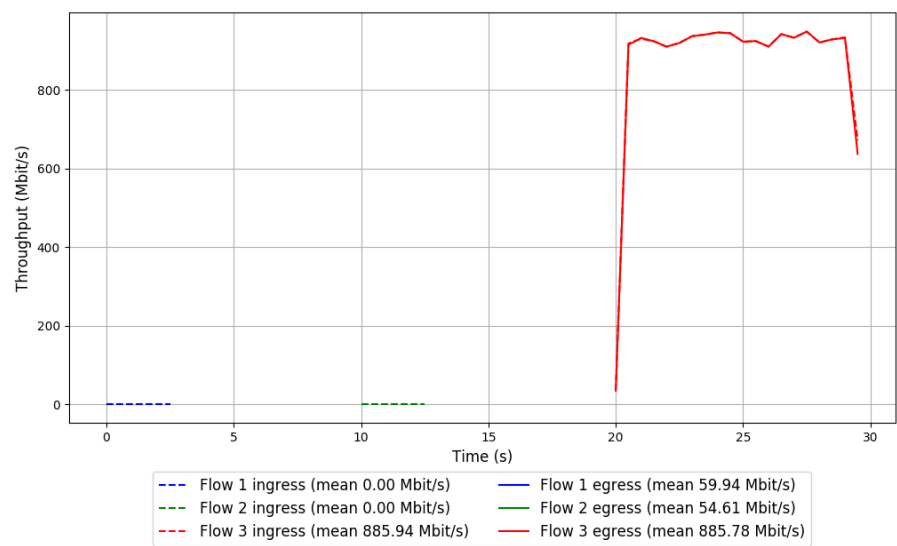
Start at: 2017-11-30 20:57:57

End at: 2017-11-30 20:58:27

Local clock offset: 0.064 ms

Remote clock offset: -0.888 ms

Run 10: Report of PCC — Data Link

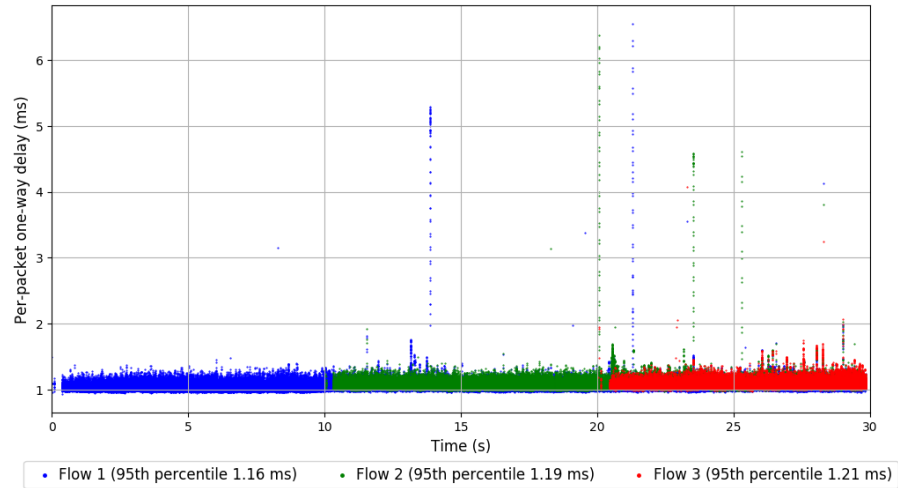
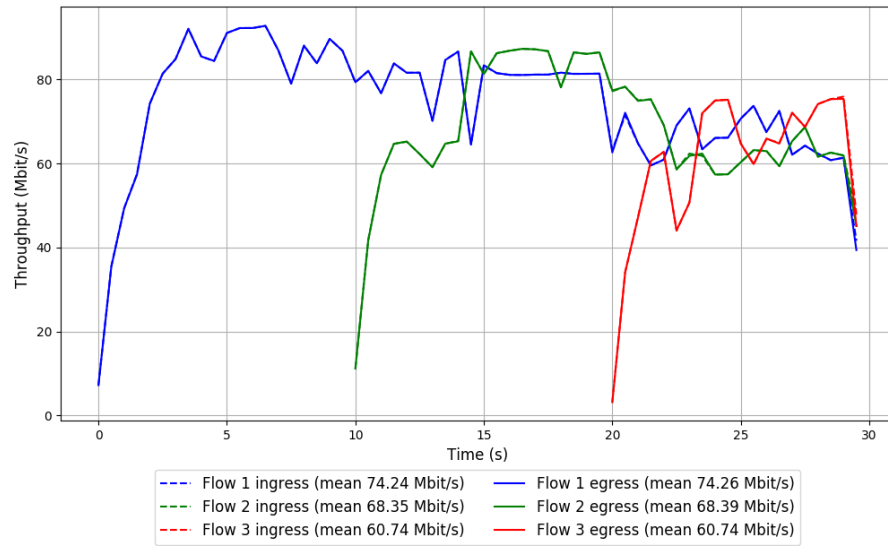


Run 1: Statistics of QUIC Cubic

Start at: 2017-11-30 17:56:57
End at: 2017-11-30 17:57:27
Local clock offset: 0.272 ms
Remote clock offset: -2.322 ms

Below is generated by plot.py at 2017-12-01 01:49:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 139.67 Mbit/s
95th percentile per-packet one-way delay: 1.182 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 74.26 Mbit/s
95th percentile per-packet one-way delay: 1.162 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 68.39 Mbit/s
95th percentile per-packet one-way delay: 1.194 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 60.74 Mbit/s
95th percentile per-packet one-way delay: 1.211 ms
Loss rate: 0.29%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2017-11-30 18:17:29

End at: 2017-11-30 18:17:59

Local clock offset: 0.193 ms

Remote clock offset: -2.16 ms

Below is generated by plot.py at 2017-12-01 01:49:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 141.88 Mbit/s

95th percentile per-packet one-way delay: 1.130 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 76.46 Mbit/s

95th percentile per-packet one-way delay: 1.139 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 70.43 Mbit/s

95th percentile per-packet one-way delay: 1.113 ms

Loss rate: 0.05%

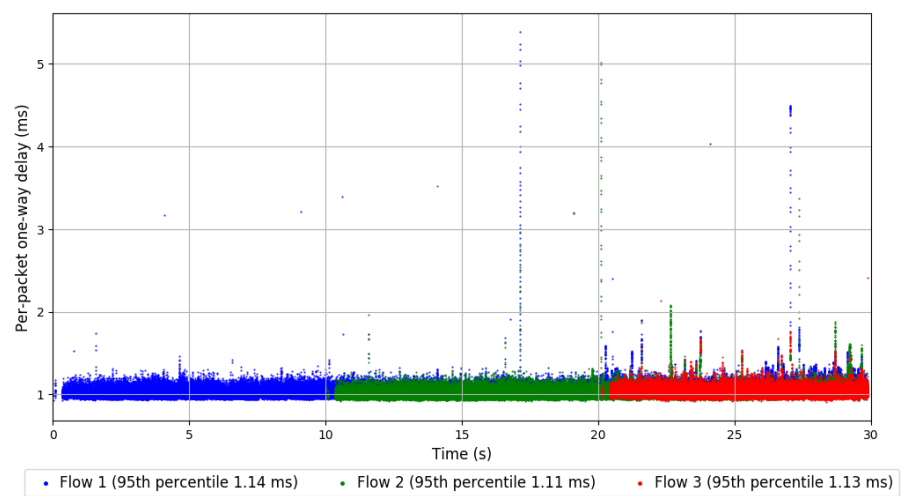
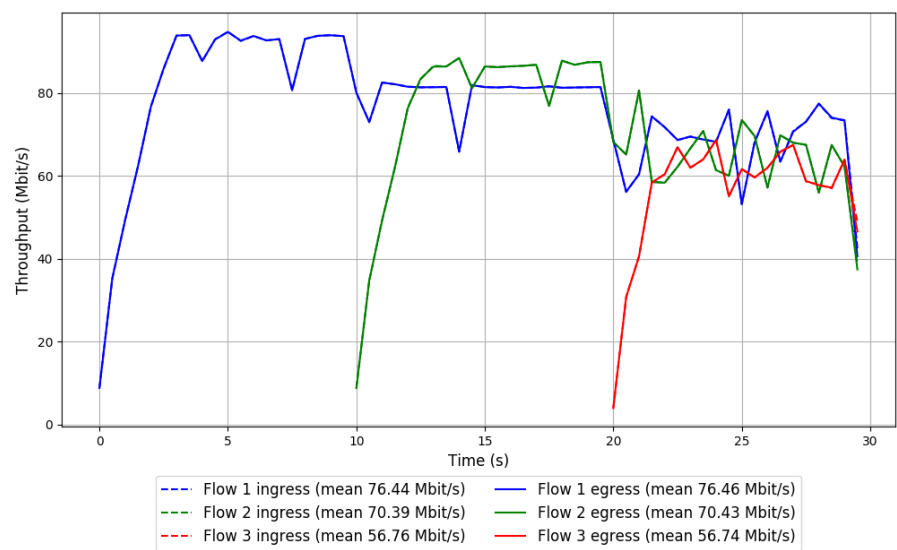
-- Flow 3:

Average throughput: 56.74 Mbit/s

95th percentile per-packet one-way delay: 1.128 ms

Loss rate: 0.22%

Run 2: Report of QUIC Cubic — Data Link

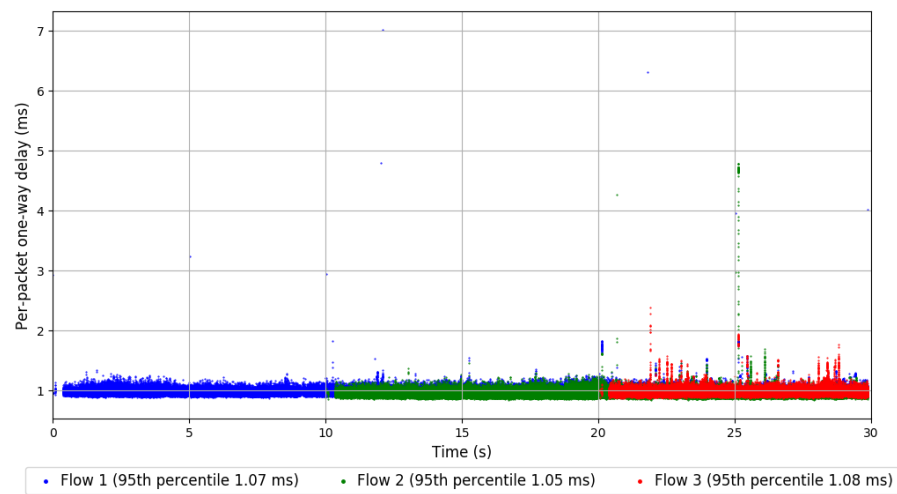
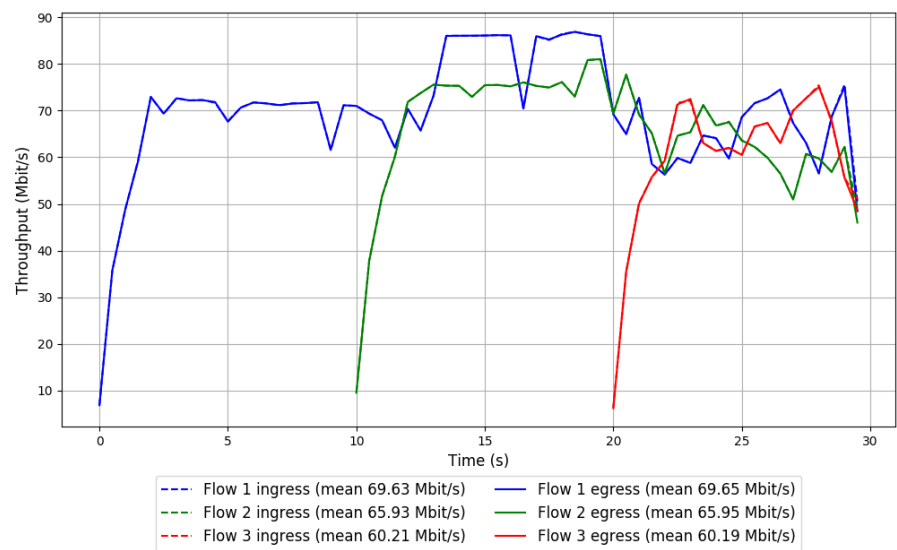


Run 3: Statistics of QUIC Cubic

Start at: 2017-11-30 18:38:08
End at: 2017-11-30 18:38:38
Local clock offset: 0.201 ms
Remote clock offset: -1.699 ms

Below is generated by plot.py at 2017-12-01 01:49:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 133.32 Mbit/s
95th percentile per-packet one-way delay: 1.064 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 69.65 Mbit/s
95th percentile per-packet one-way delay: 1.068 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 65.95 Mbit/s
95th percentile per-packet one-way delay: 1.048 ms
Loss rate: 0.11%
-- Flow 3:
Average throughput: 60.19 Mbit/s
95th percentile per-packet one-way delay: 1.077 ms
Loss rate: 0.22%

Run 3: Report of QUIC Cubic — Data Link

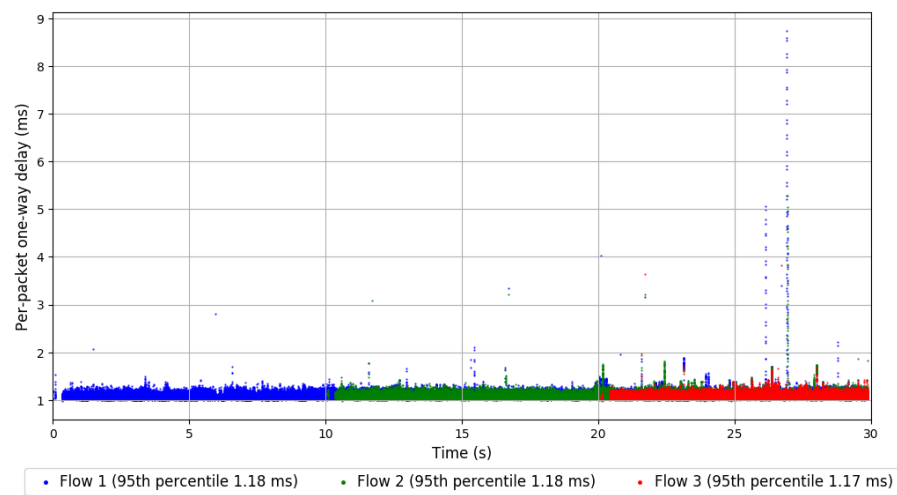
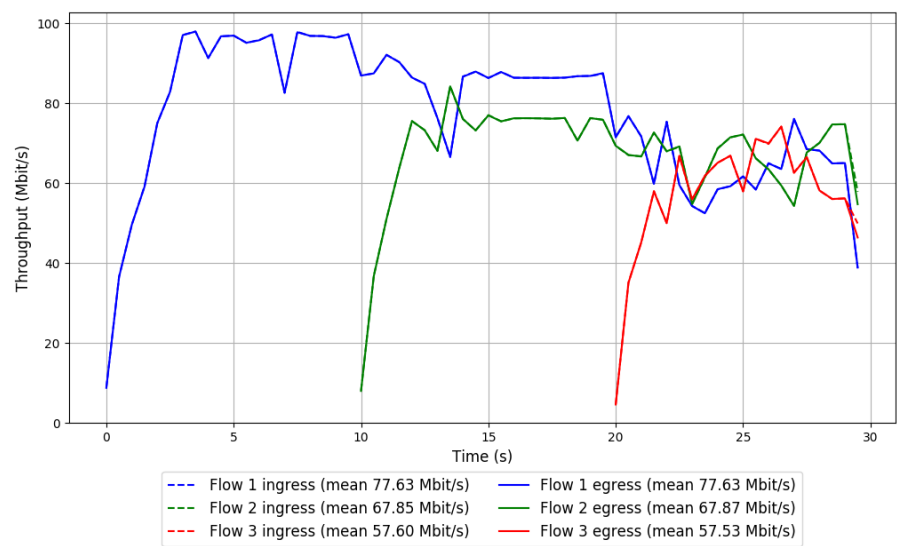


Run 4: Statistics of QUIC Cubic

Start at: 2017-11-30 18:58:57
End at: 2017-11-30 18:59:27
Local clock offset: 0.248 ms
Remote clock offset: -1.537 ms

Below is generated by plot.py at 2017-12-01 01:49:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 141.46 Mbit/s
95th percentile per-packet one-way delay: 1.176 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 77.63 Mbit/s
95th percentile per-packet one-way delay: 1.177 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 67.87 Mbit/s
95th percentile per-packet one-way delay: 1.176 ms
Loss rate: 0.12%
-- Flow 3:
Average throughput: 57.53 Mbit/s
95th percentile per-packet one-way delay: 1.172 ms
Loss rate: 0.32%

Run 4: Report of QUIC Cubic — Data Link

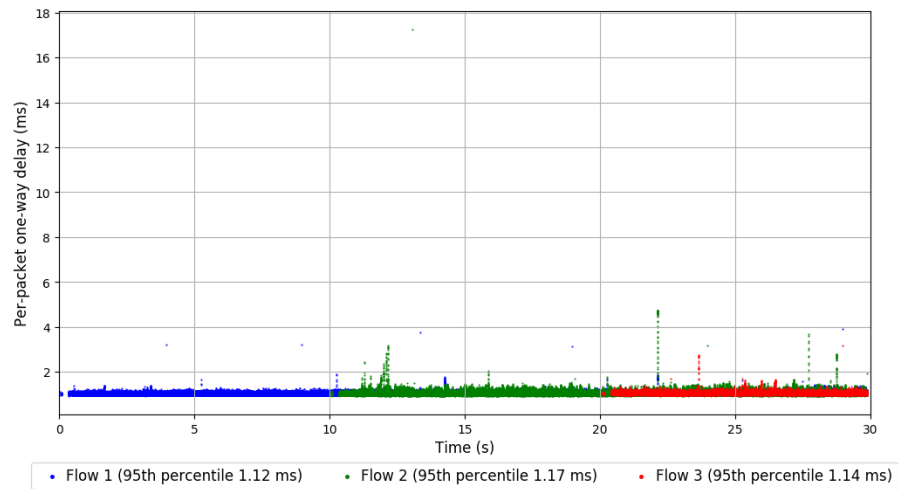
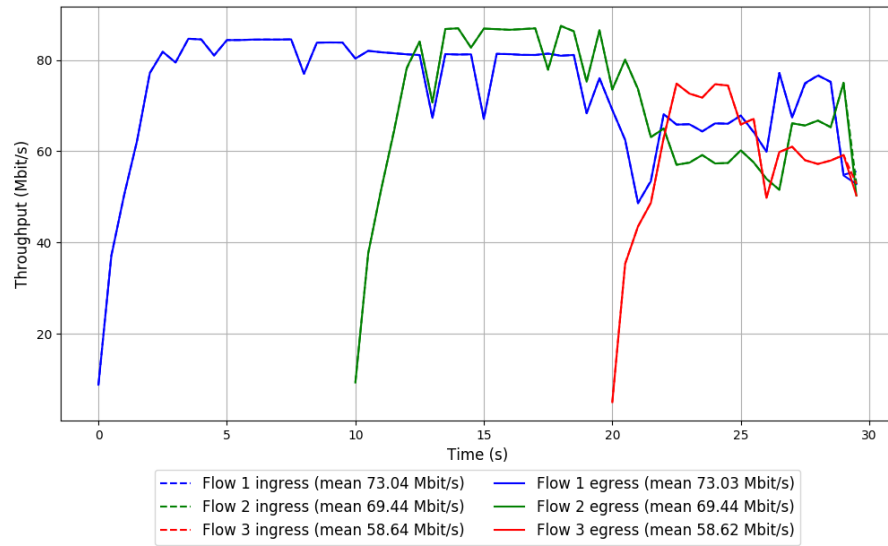


Run 5: Statistics of QUIC Cubic

Start at: 2017-11-30 19:19:37
End at: 2017-11-30 19:20:07
Local clock offset: 0.111 ms
Remote clock offset: -1.165 ms

Below is generated by plot.py at 2017-12-01 01:49:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 138.43 Mbit/s
95th percentile per-packet one-way delay: 1.133 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 73.03 Mbit/s
95th percentile per-packet one-way delay: 1.119 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 69.44 Mbit/s
95th percentile per-packet one-way delay: 1.165 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 58.62 Mbit/s
95th percentile per-packet one-way delay: 1.138 ms
Loss rate: 0.24%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2017-11-30 19:40:15

End at: 2017-11-30 19:40:45

Local clock offset: 0.071 ms

Remote clock offset: -0.82 ms

Below is generated by plot.py at 2017-12-01 01:49:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 134.17 Mbit/s

95th percentile per-packet one-way delay: 1.097 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 71.06 Mbit/s

95th percentile per-packet one-way delay: 1.085 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 67.02 Mbit/s

95th percentile per-packet one-way delay: 1.095 ms

Loss rate: 0.08%

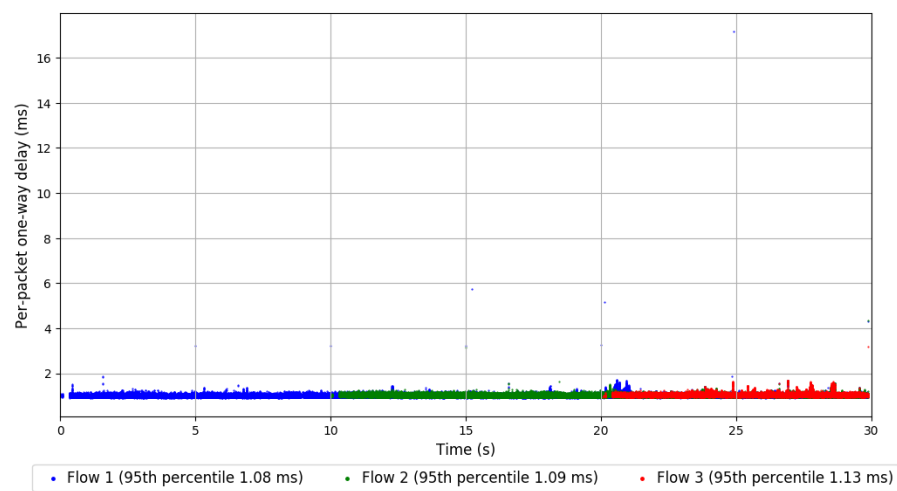
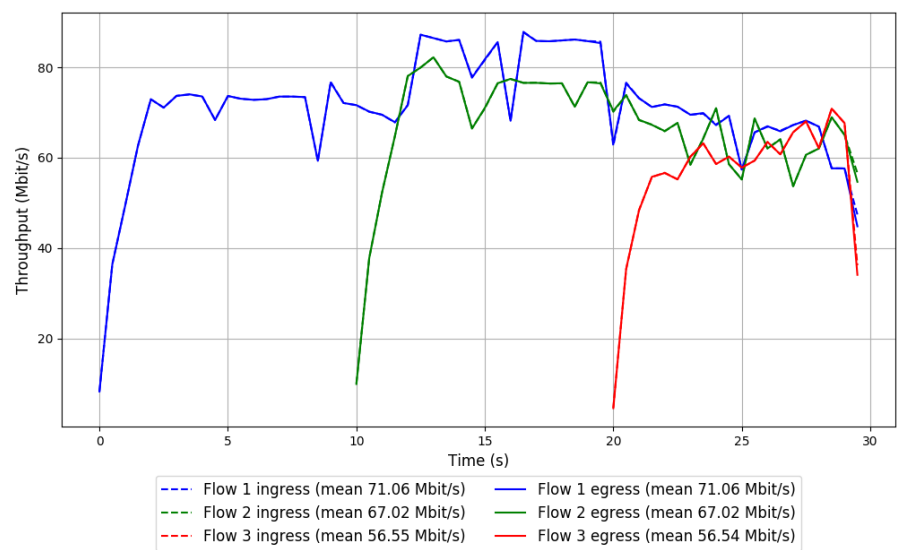
-- Flow 3:

Average throughput: 56.54 Mbit/s

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

Loss rate: 0.20%

Run 6: Report of QUIC Cubic — Data Link

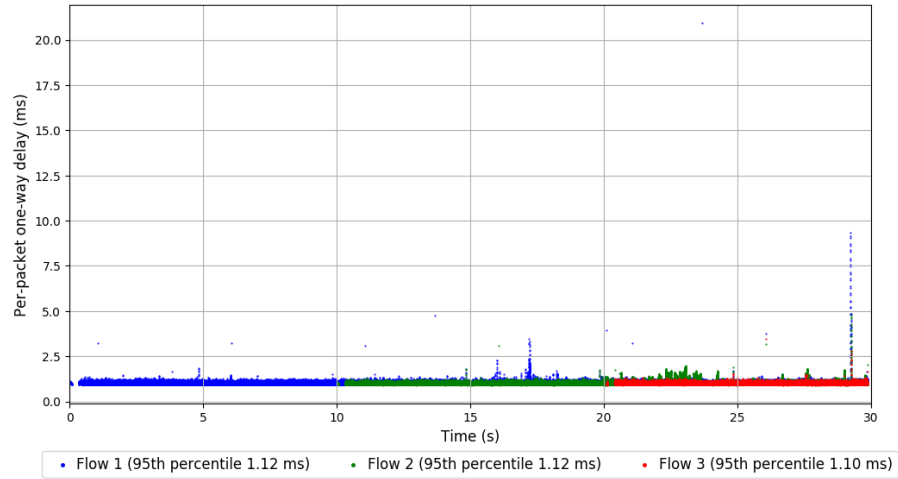
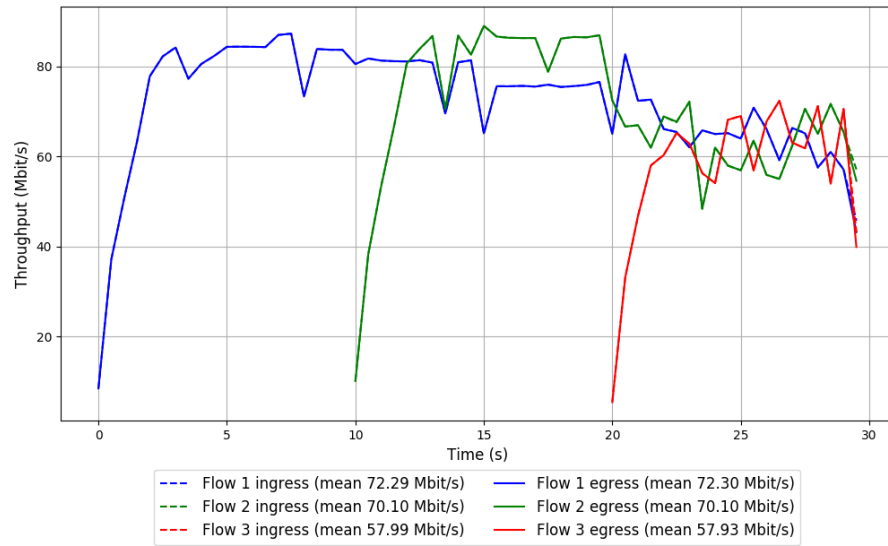


Run 7: Statistics of QUIC Cubic

Start at: 2017-11-30 20:00:56
End at: 2017-11-30 20:01:26
Local clock offset: -0.015 ms
Remote clock offset: -1.023 ms

Below is generated by plot.py at 2017-12-01 01:49:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 137.92 Mbit/s
95th percentile per-packet one-way delay: 1.120 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 72.30 Mbit/s
95th percentile per-packet one-way delay: 1.123 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 70.10 Mbit/s
95th percentile per-packet one-way delay: 1.122 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 57.93 Mbit/s
95th percentile per-packet one-way delay: 1.100 ms
Loss rate: 0.29%

Run 7: Report of QUIC Cubic — Data Link

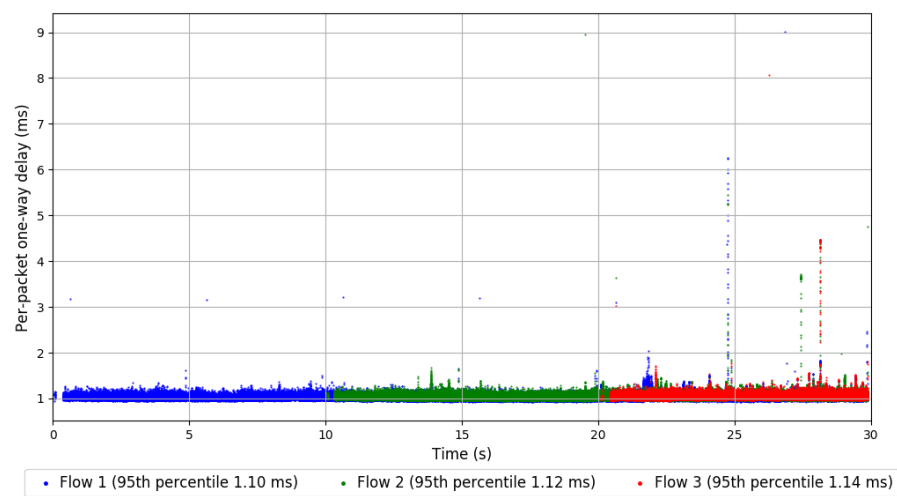
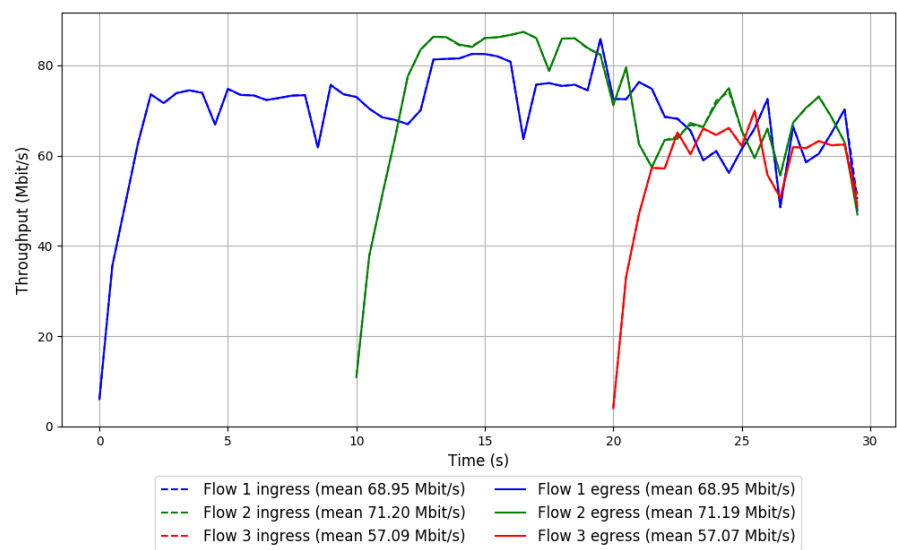


Run 8: Statistics of QUIC Cubic

Start at: 2017-11-30 20:21:29
End at: 2017-11-30 20:21:59
Local clock offset: 0.142 ms
Remote clock offset: -0.995 ms

Below is generated by plot.py at 2017-12-01 01:49:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 135.02 Mbit/s
95th percentile per-packet one-way delay: 1.118 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 68.95 Mbit/s
95th percentile per-packet one-way delay: 1.103 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 71.19 Mbit/s
95th percentile per-packet one-way delay: 1.125 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 57.07 Mbit/s
95th percentile per-packet one-way delay: 1.140 ms
Loss rate: 0.23%

Run 8: Report of QUIC Cubic — Data Link

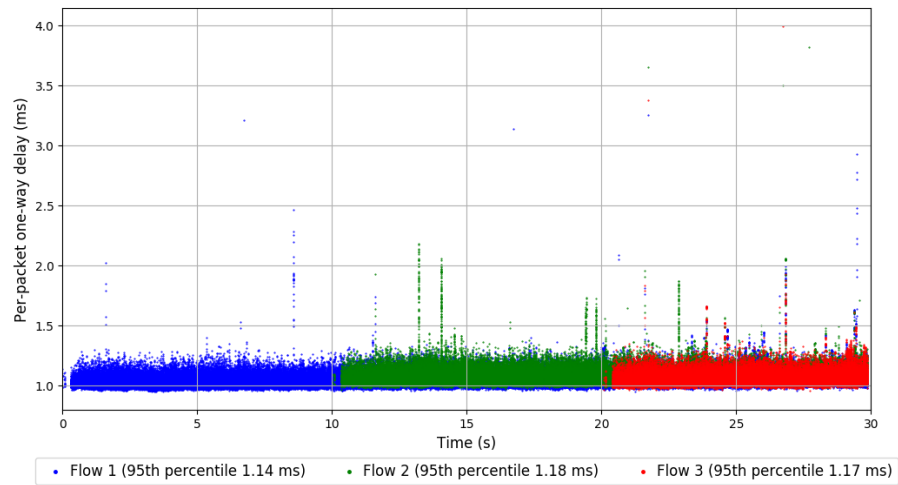
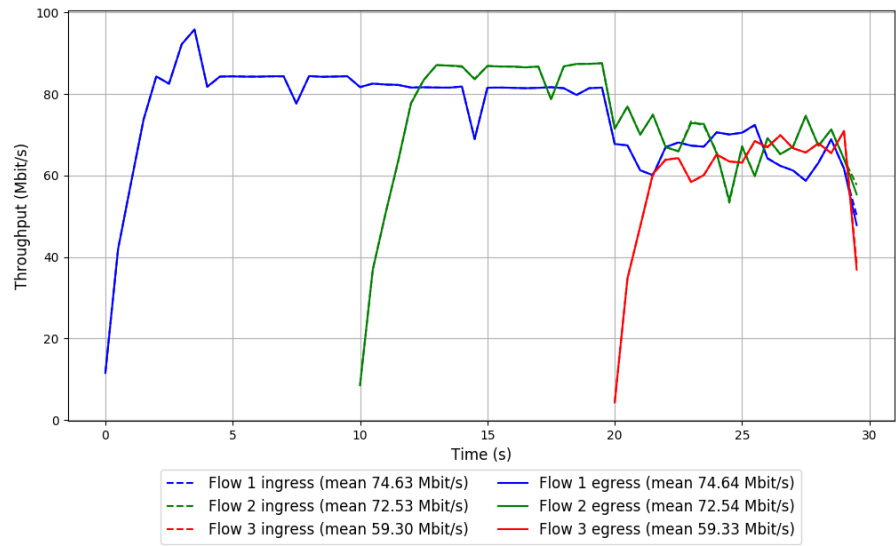


Run 9: Statistics of QUIC Cubic

Start at: 2017-11-30 20:42:01
End at: 2017-11-30 20:42:31
Local clock offset: 0.152 ms
Remote clock offset: -0.882 ms

Below is generated by plot.py at 2017-12-01 01:49:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 142.30 Mbit/s
95th percentile per-packet one-way delay: 1.162 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 74.64 Mbit/s
95th percentile per-packet one-way delay: 1.144 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 72.54 Mbit/s
95th percentile per-packet one-way delay: 1.179 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 59.33 Mbit/s
95th percentile per-packet one-way delay: 1.168 ms
Loss rate: 0.13%

Run 9: Report of QUIC Cubic — Data Link

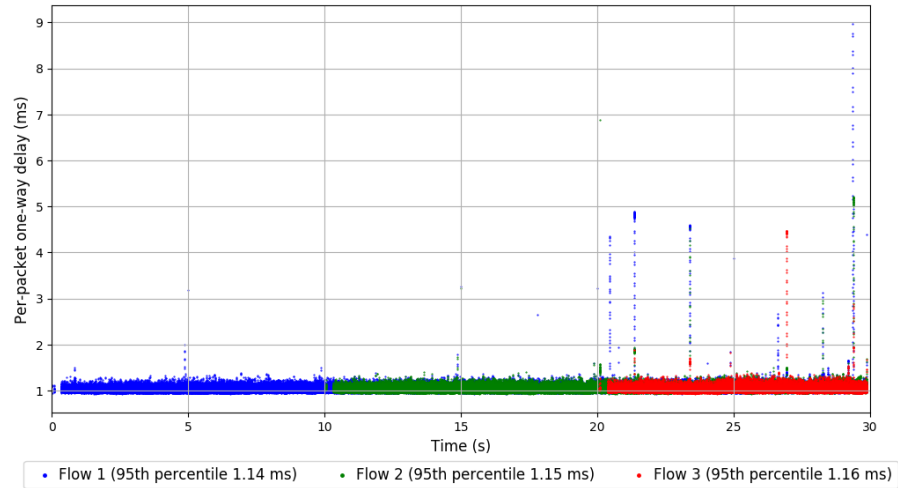
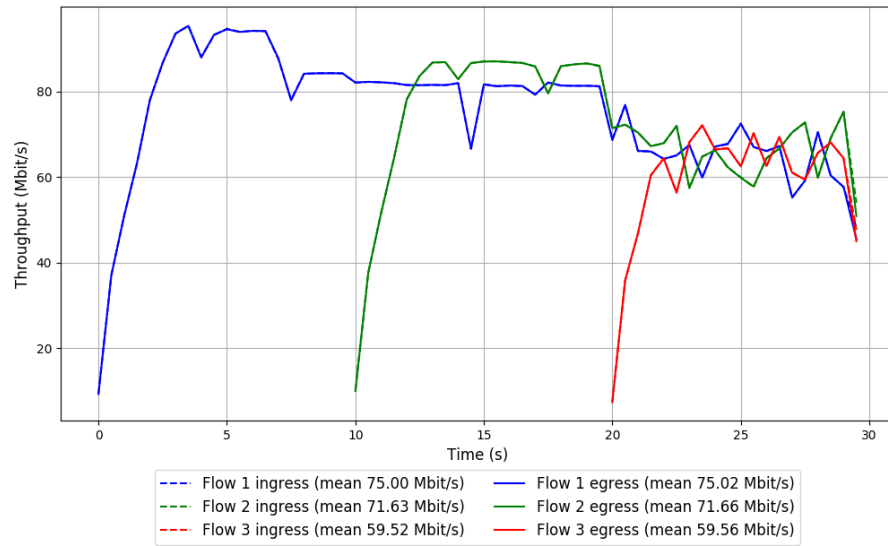


Run 10: Statistics of QUIC Cubic

Start at: 2017-11-30 21:02:21
End at: 2017-11-30 21:02:51
Local clock offset: -0.055 ms
Remote clock offset: -0.996 ms

Below is generated by plot.py at 2017-12-01 01:49:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 142.30 Mbit/s
95th percentile per-packet one-way delay: 1.148 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 75.02 Mbit/s
95th percentile per-packet one-way delay: 1.144 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 71.66 Mbit/s
95th percentile per-packet one-way delay: 1.151 ms
Loss rate: 0.11%
-- Flow 3:
Average throughput: 59.56 Mbit/s
95th percentile per-packet one-way delay: 1.157 ms
Loss rate: 0.24%

Run 10: Report of QUIC Cubic — Data Link

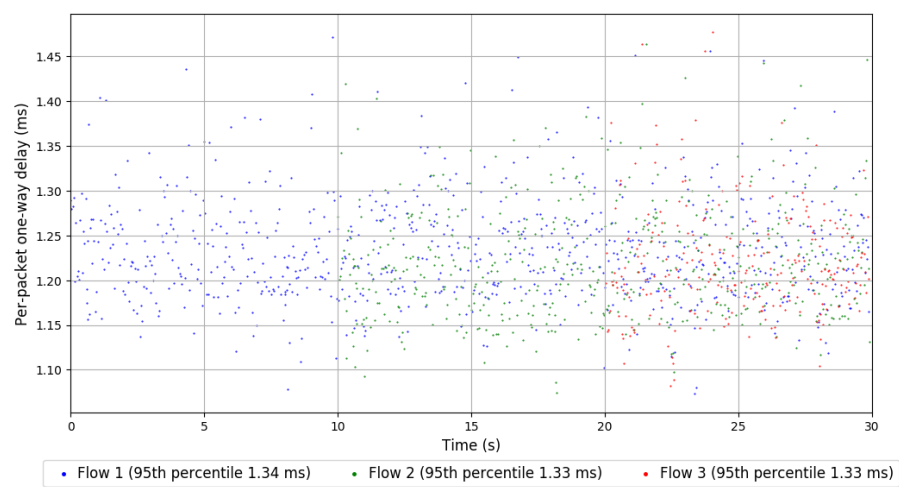
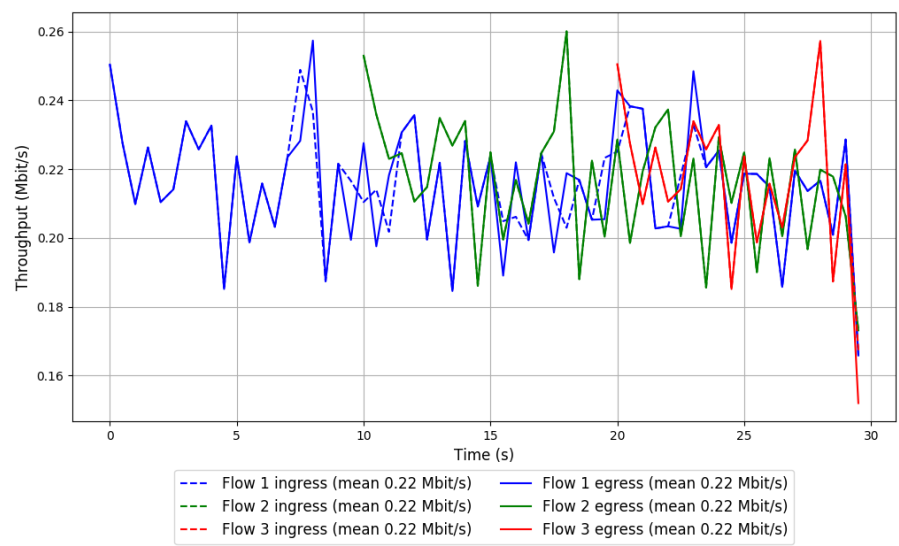


Run 1: Statistics of SReAM

Start at: 2017-11-30 18:01:02
End at: 2017-11-30 18:01:32
Local clock offset: 0.278 ms
Remote clock offset: -2.315 ms

Below is generated by plot.py at 2017-12-01 01:49:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 1.334 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.337 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.334 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.329 ms
Loss rate: 0.35%

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SReAM

Start at: 2017-11-30 18:21:35

End at: 2017-11-30 18:22:05

Local clock offset: 0.174 ms

Remote clock offset: -2.02 ms

Below is generated by plot.py at 2017-12-01 01:49:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 1.215 ms

Loss rate: 0.13%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.215 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.21%

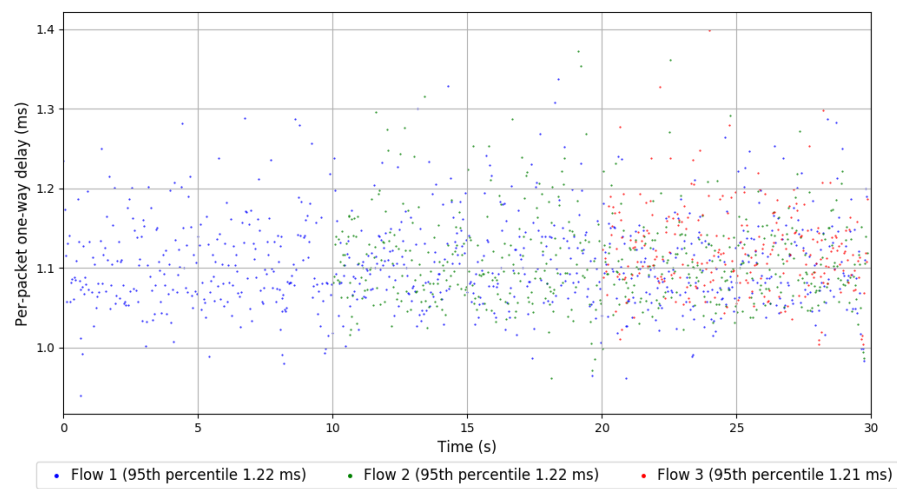
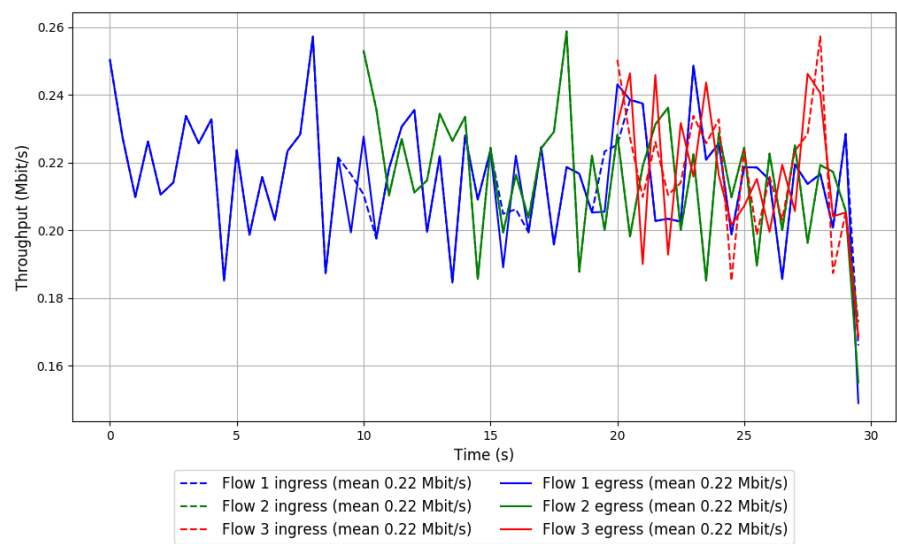
-- Flow 3:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.00%

Run 2: Report of SReAM — Data Link

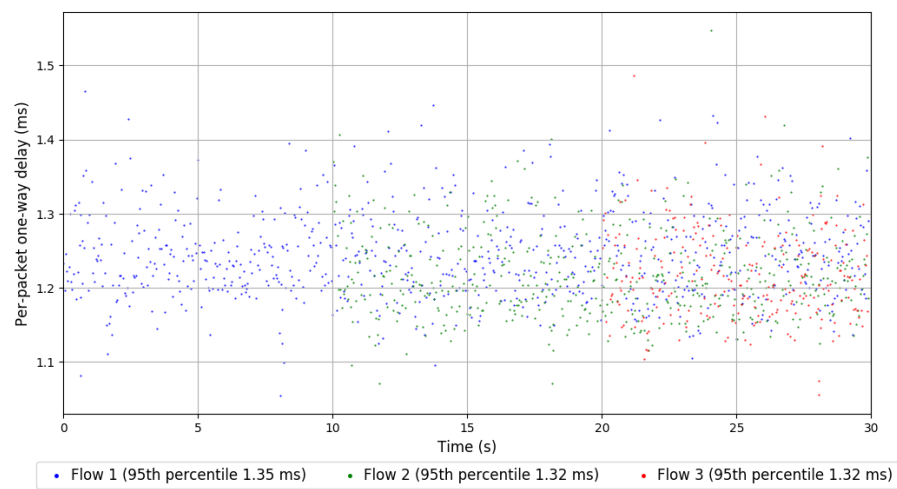
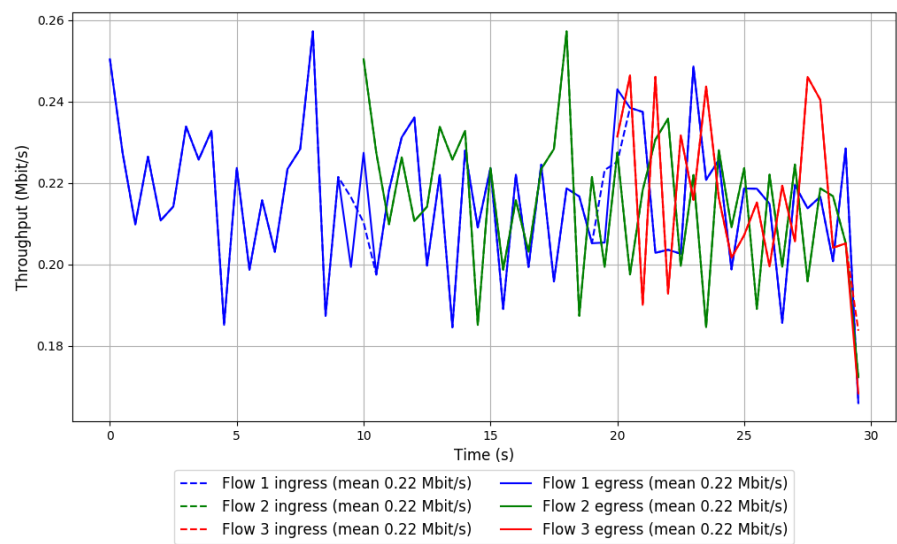


Run 3: Statistics of SReAM

Start at: 2017-11-30 18:42:13
End at: 2017-11-30 18:42:43
Local clock offset: 0.287 ms
Remote clock offset: -1.75 ms

Below is generated by plot.py at 2017-12-01 01:49:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 1.338 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.349 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.325 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.316 ms
Loss rate: 0.35%

Run 3: Report of SReAM — Data Link

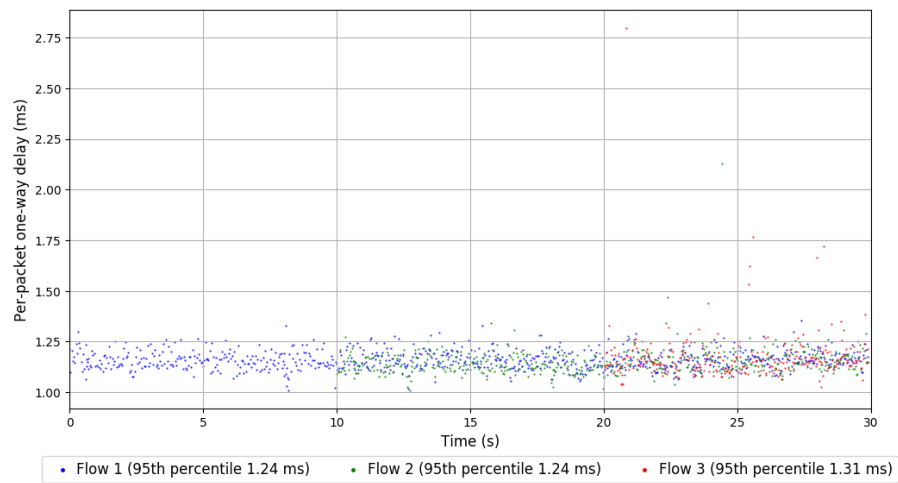
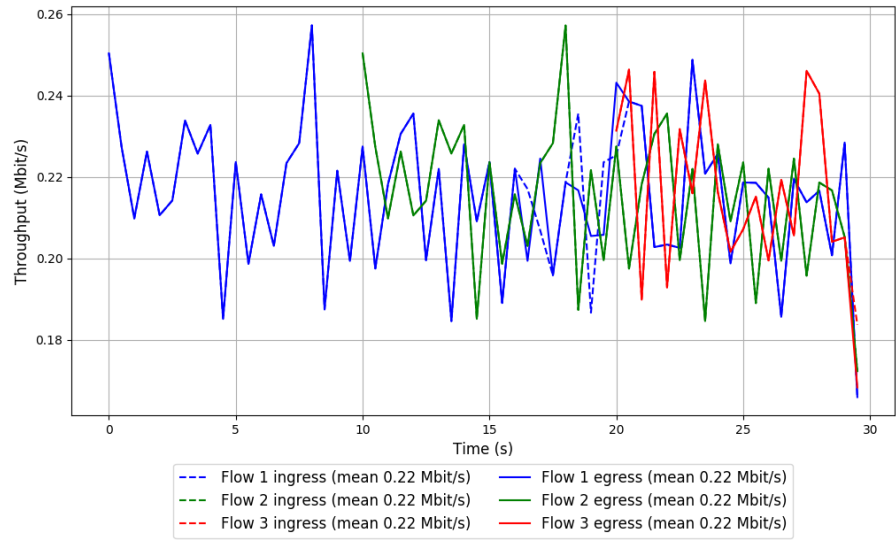


Run 4: Statistics of SReAM

Start at: 2017-11-30 19:03:02
End at: 2017-11-30 19:03:32
Local clock offset: 0.224 ms
Remote clock offset: -1.468 ms

Below is generated by plot.py at 2017-12-01 01:49:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 1.247 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.242 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.235 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.308 ms
Loss rate: 0.35%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SReAM

Start at: 2017-11-30 19:23:42

End at: 2017-11-30 19:24:12

Local clock offset: 0.084 ms

Remote clock offset: -1.19 ms

Below is generated by plot.py at 2017-12-01 01:49:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 1.197 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.197 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.197 ms

Loss rate: 0.00%

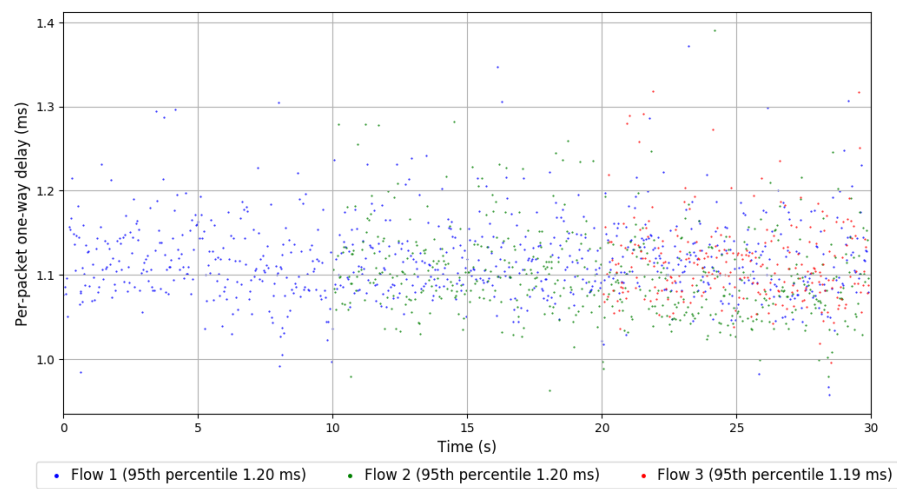
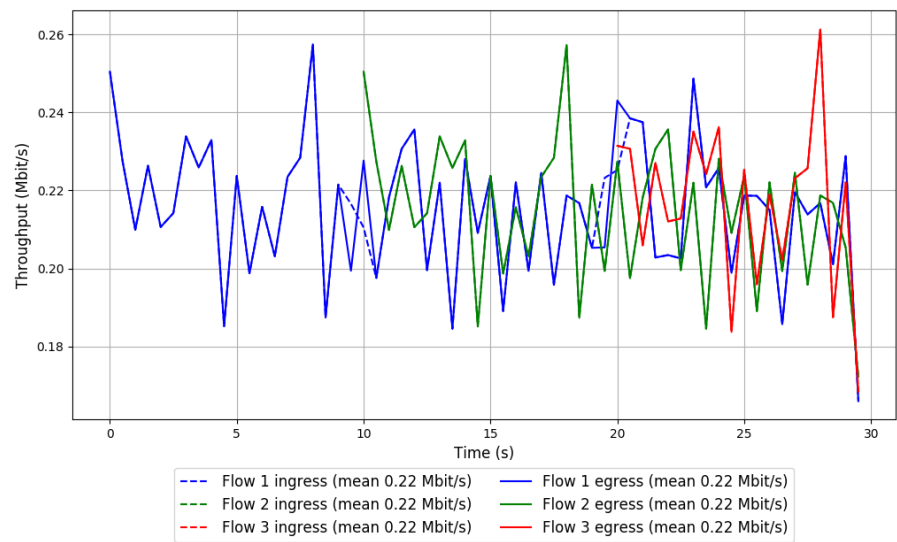
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.194 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SReAM

Start at: 2017-11-30 19:44:20

End at: 2017-11-30 19:44:50

Local clock offset: 0.149 ms

Remote clock offset: -0.86 ms

Below is generated by plot.py at 2017-12-01 01:49:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

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

Loss rate: 0.06%

-- Flow 1:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.00%

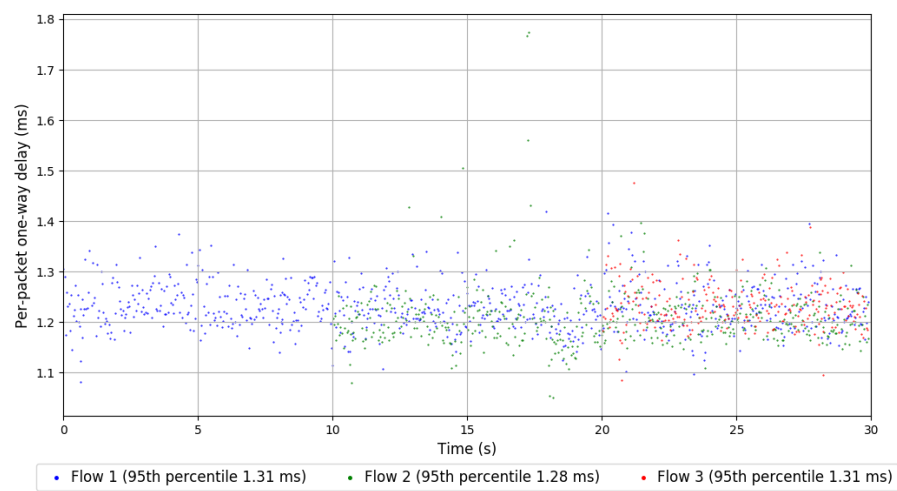
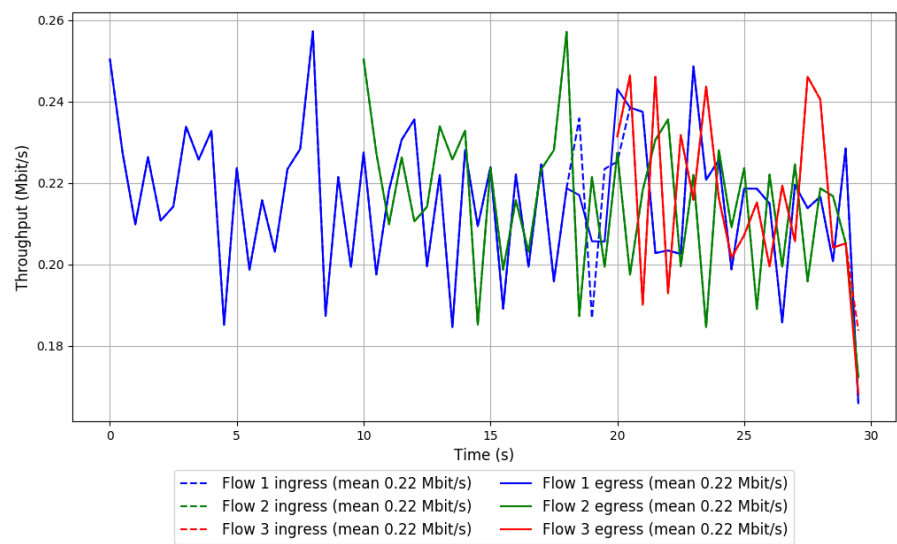
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.312 ms

Loss rate: 0.35%

Run 6: Report of SReAM — Data Link

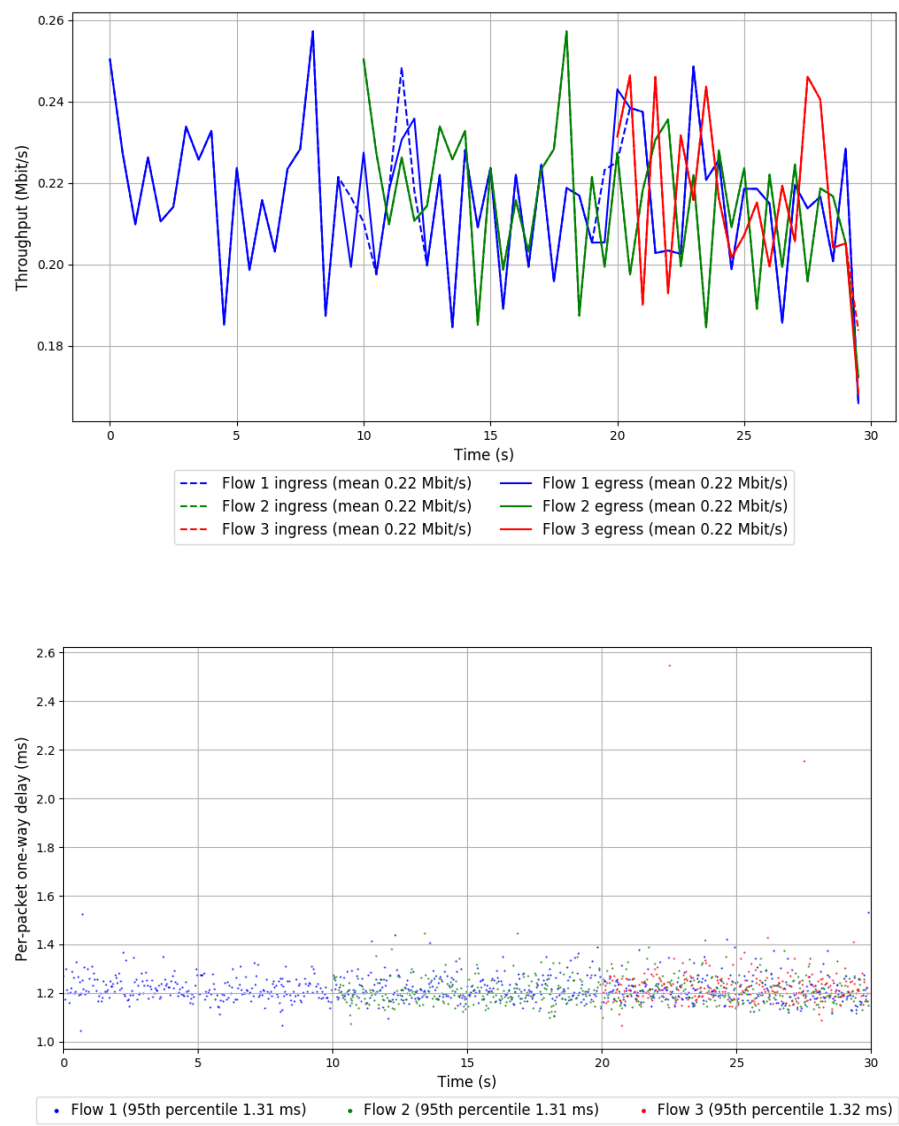


Run 7: Statistics of SReAM

Start at: 2017-11-30 20:05:02
End at: 2017-11-30 20:05:32
Local clock offset: 0.089 ms
Remote clock offset: -1.047 ms

Below is generated by plot.py at 2017-12-01 01:49:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 1.310 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.307 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.312 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.319 ms
Loss rate: 0.35%

Run 7: Report of SReAM — Data Link

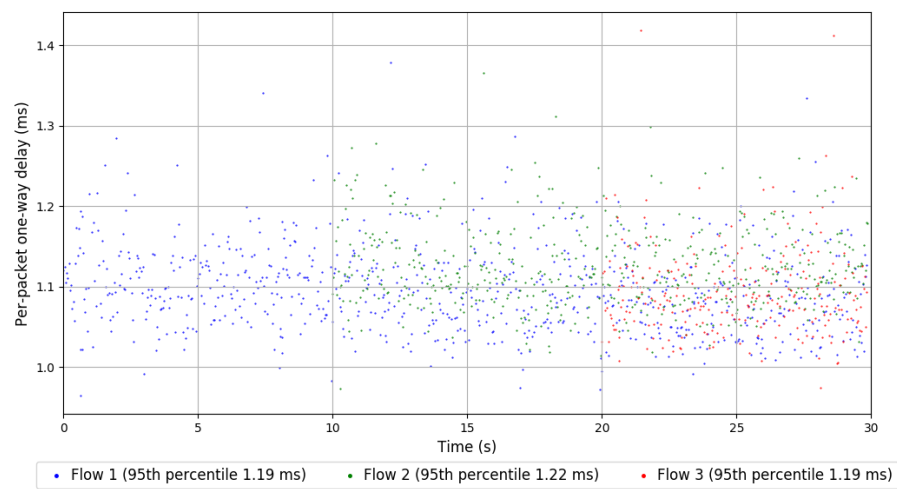
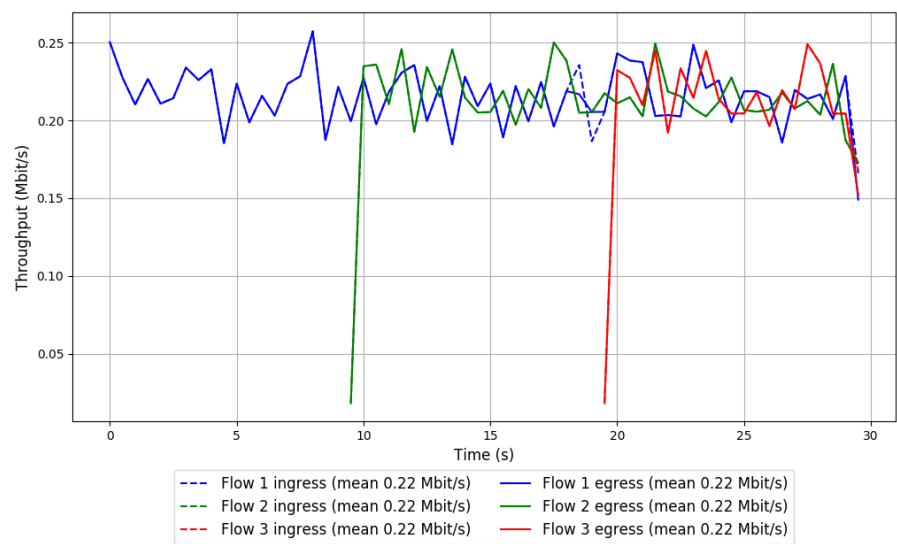


Run 8: Statistics of SReAM

Start at: 2017-11-30 20:25:34
End at: 2017-11-30 20:26:04
Local clock offset: 0.071 ms
Remote clock offset: -1.103 ms

Below is generated by plot.py at 2017-12-01 01:49:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 1.202 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.188 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.222 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.193 ms
Loss rate: 0.35%

Run 8: Report of SReAM — Data Link

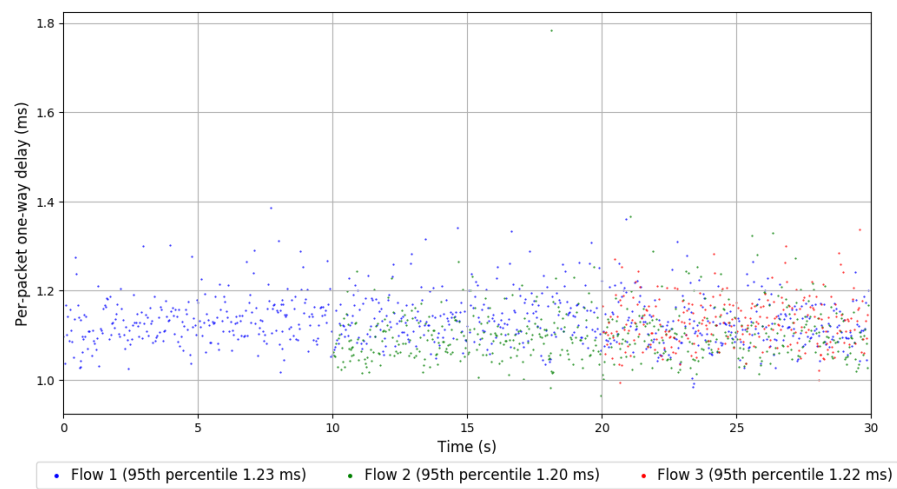
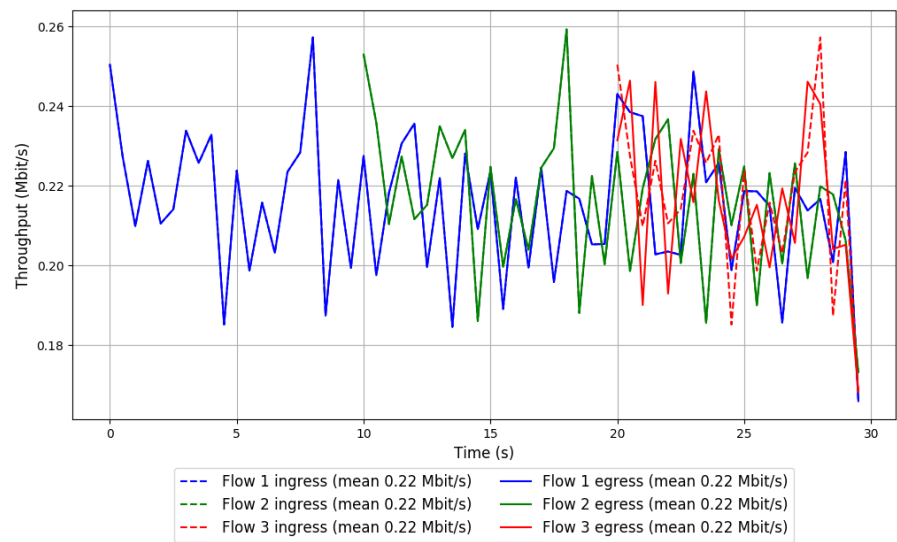


Run 9: Statistics of SReAM

Start at: 2017-11-30 20:46:07
End at: 2017-11-30 20:46:37
Local clock offset: -0.003 ms
Remote clock offset: -0.855 ms

Below is generated by plot.py at 2017-12-01 01:49:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 1.222 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.233 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.203 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.220 ms
Loss rate: 0.35%

Run 9: Report of SCRaM — Data Link

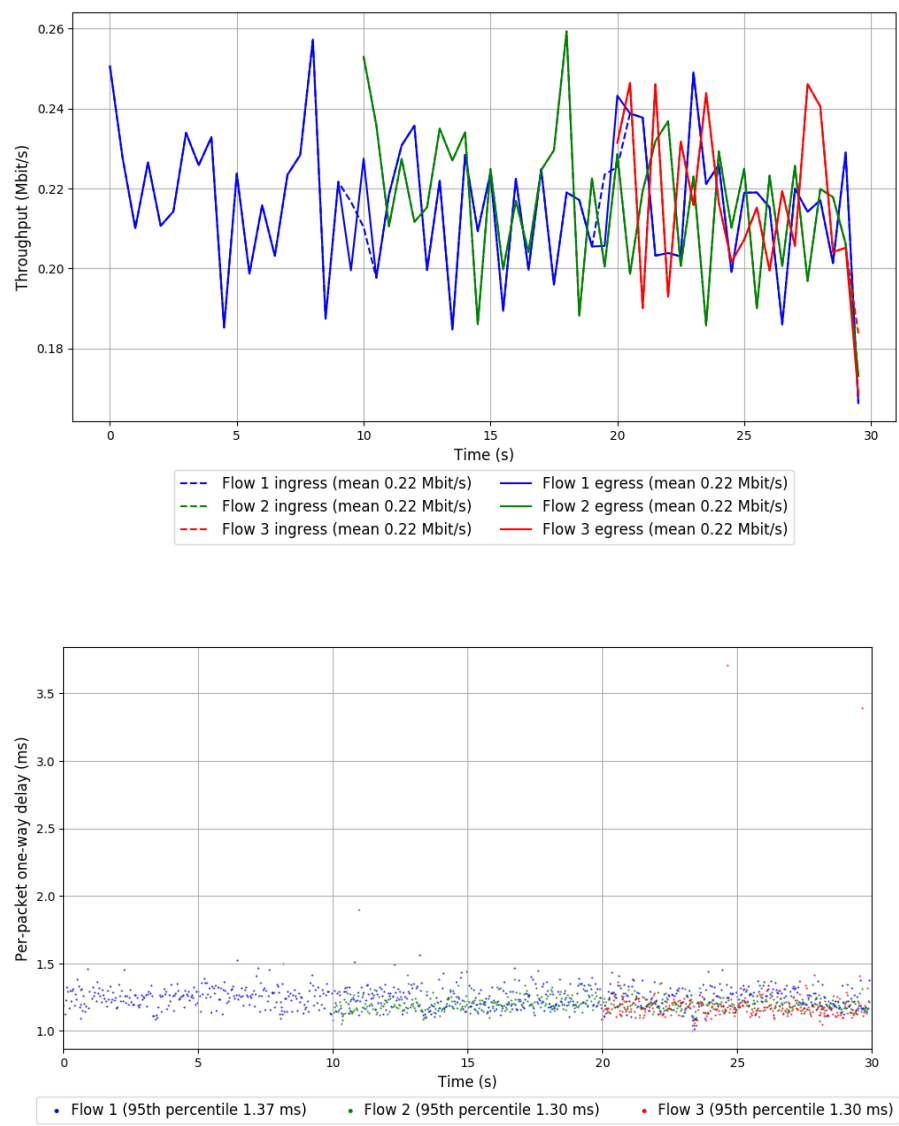


Run 10: Statistics of SCReAM

Start at: 2017-11-30 21:06:26
End at: 2017-11-30 21:06:56
Local clock offset: 0.005 ms
Remote clock offset: -0.981 ms

Below is generated by plot.py at 2017-12-01 01:49:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 1.348 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.369 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.302 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.300 ms
Loss rate: 0.35%

Run 10: Report of SCReAM — Data Link

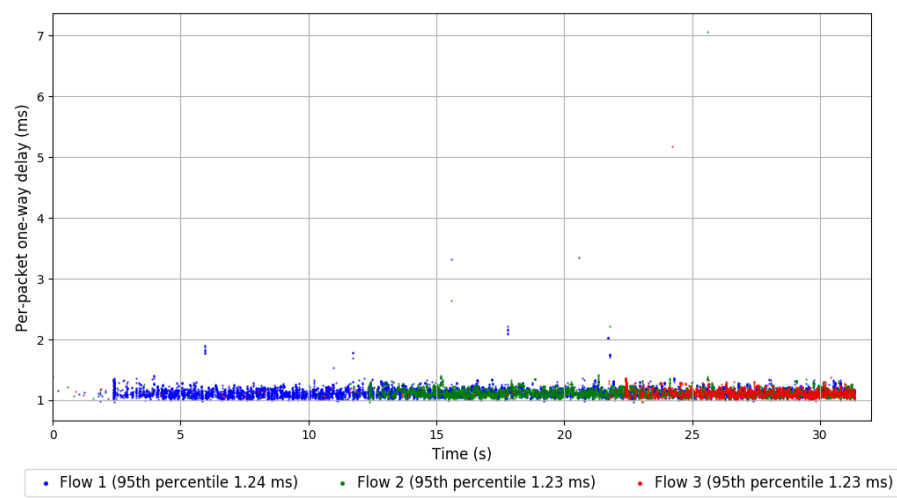
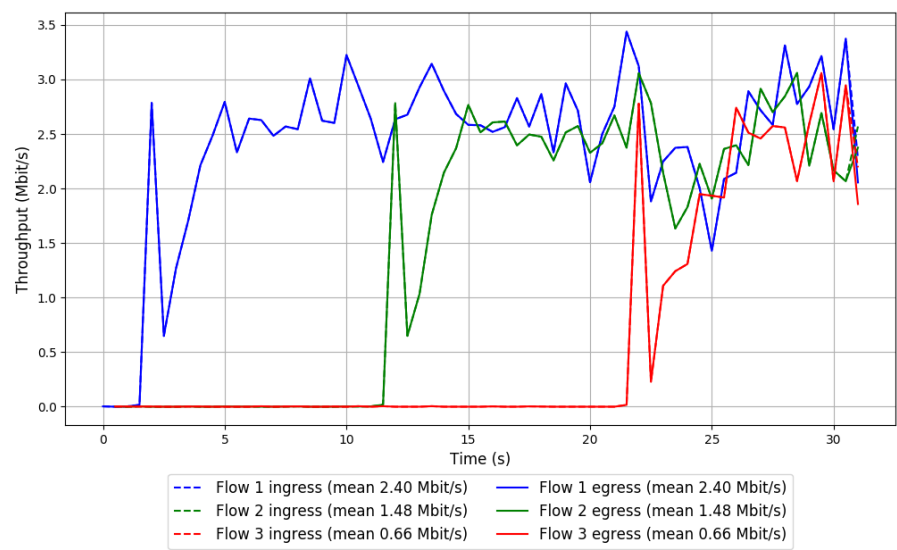


Run 1: Statistics of WebRTC media

Start at: 2017-11-30 17:59:51
End at: 2017-11-30 18:00:21
Local clock offset: 0.276 ms
Remote clock offset: -2.297 ms

Below is generated by plot.py at 2017-12-01 01:49:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 4.50 Mbit/s
95th percentile per-packet one-way delay: 1.233 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 2.40 Mbit/s
95th percentile per-packet one-way delay: 1.237 ms
Loss rate: 0.15%
-- Flow 2:
Average throughput: 1.48 Mbit/s
95th percentile per-packet one-way delay: 1.231 ms
Loss rate: 0.21%
-- Flow 3:
Average throughput: 0.66 Mbit/s
95th percentile per-packet one-way delay: 1.229 ms
Loss rate: 0.83%

Run 1: Report of WebRTC media — Data Link

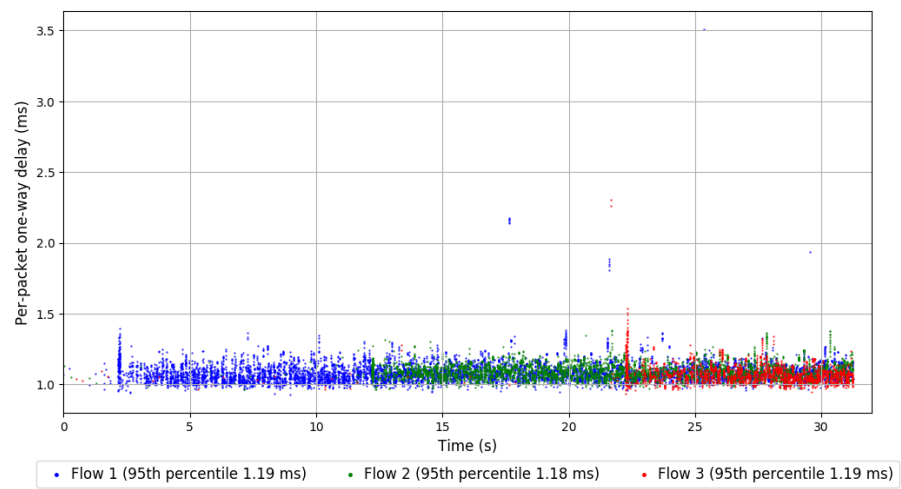
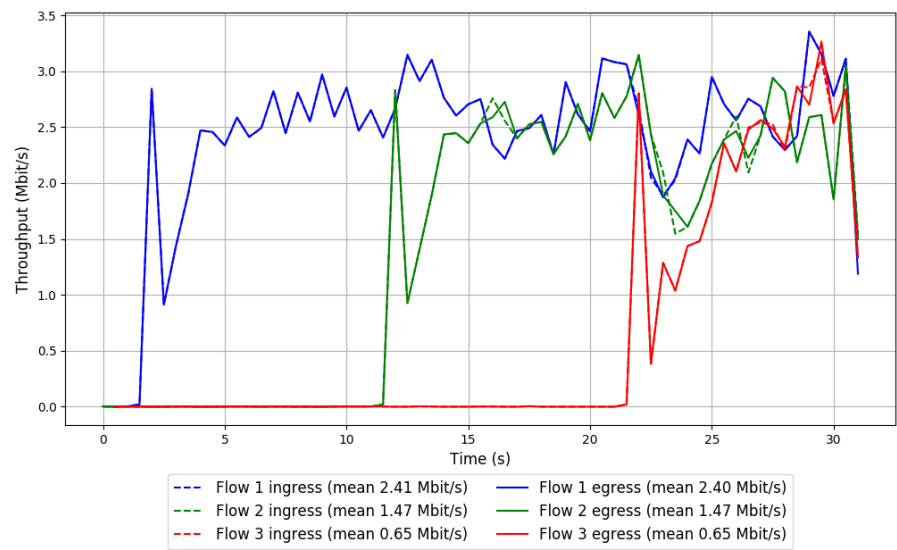


Run 2: Statistics of WebRTC media

Start at: 2017-11-30 18:20:24
End at: 2017-11-30 18:20:54
Local clock offset: 0.19 ms
Remote clock offset: -2.091 ms

Below is generated by plot.py at 2017-12-01 01:49:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 4.51 Mbit/s
95th percentile per-packet one-way delay: 1.186 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 2.40 Mbit/s
95th percentile per-packet one-way delay: 1.189 ms
Loss rate: 0.23%
-- Flow 2:
Average throughput: 1.47 Mbit/s
95th percentile per-packet one-way delay: 1.183 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.65 Mbit/s
95th percentile per-packet one-way delay: 1.189 ms
Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link

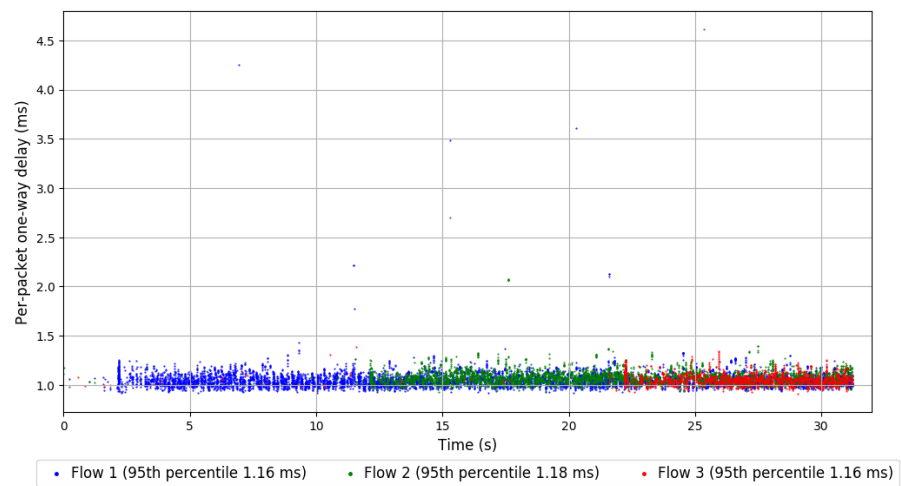
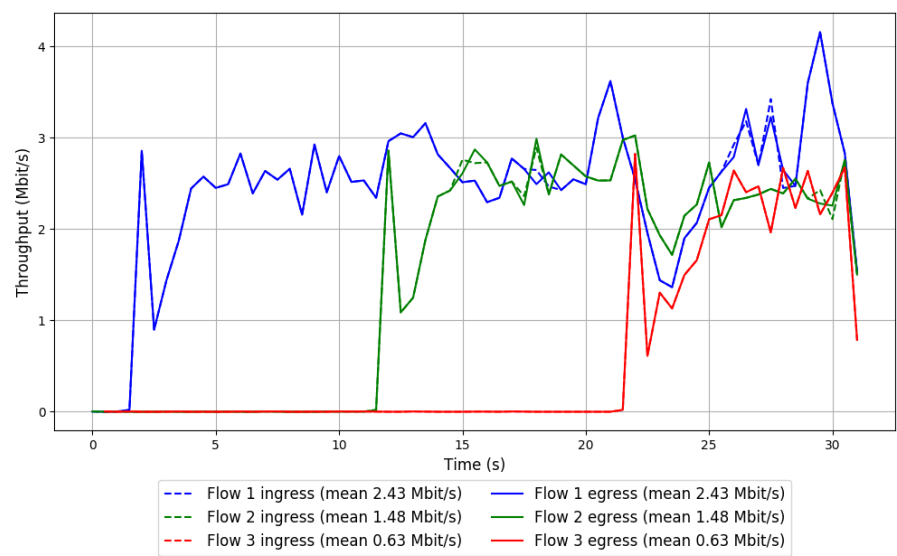


Run 3: Statistics of WebRTC media

Start at: 2017-11-30 18:41:03
End at: 2017-11-30 18:41:33
Local clock offset: 0.186 ms
Remote clock offset: -1.764 ms

Below is generated by plot.py at 2017-12-01 01:49:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 4.53 Mbit/s
95th percentile per-packet one-way delay: 1.165 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.43 Mbit/s
95th percentile per-packet one-way delay: 1.157 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.48 Mbit/s
95th percentile per-packet one-way delay: 1.178 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.63 Mbit/s
95th percentile per-packet one-way delay: 1.157 ms
Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link

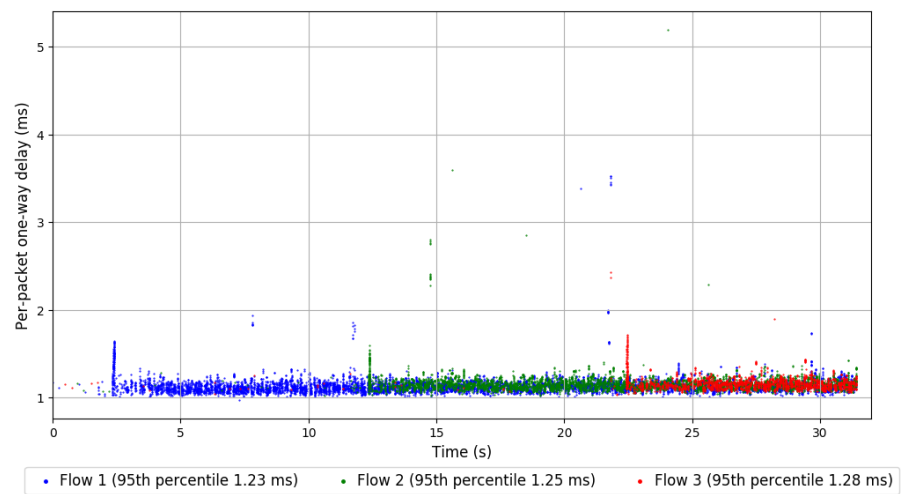
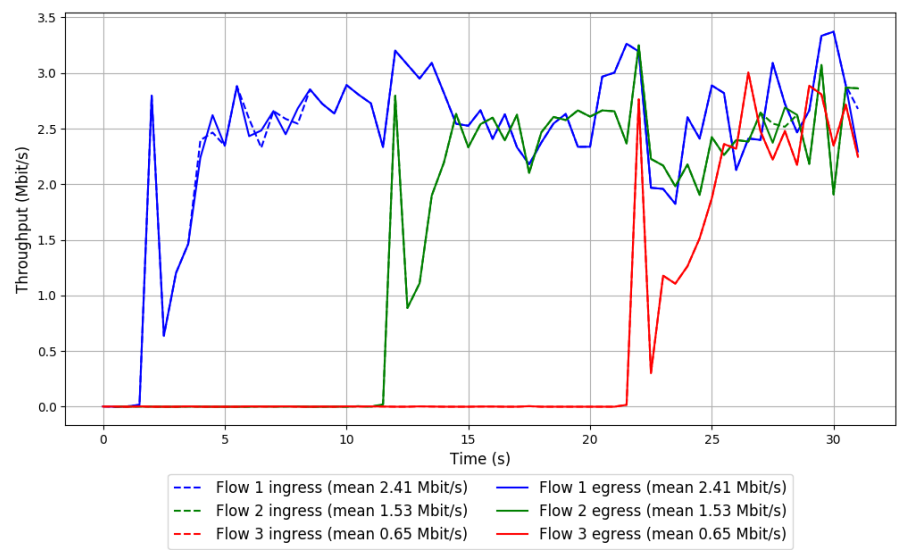


Run 4: Statistics of WebRTC media

Start at: 2017-11-30 19:01:51
End at: 2017-11-30 19:02:21
Local clock offset: 0.247 ms
Remote clock offset: -1.558 ms

Below is generated by plot.py at 2017-12-01 01:49:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 4.53 Mbit/s
95th percentile per-packet one-way delay: 1.248 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 2.41 Mbit/s
95th percentile per-packet one-way delay: 1.233 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 1.53 Mbit/s
95th percentile per-packet one-way delay: 1.254 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.65 Mbit/s
95th percentile per-packet one-way delay: 1.280 ms
Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link

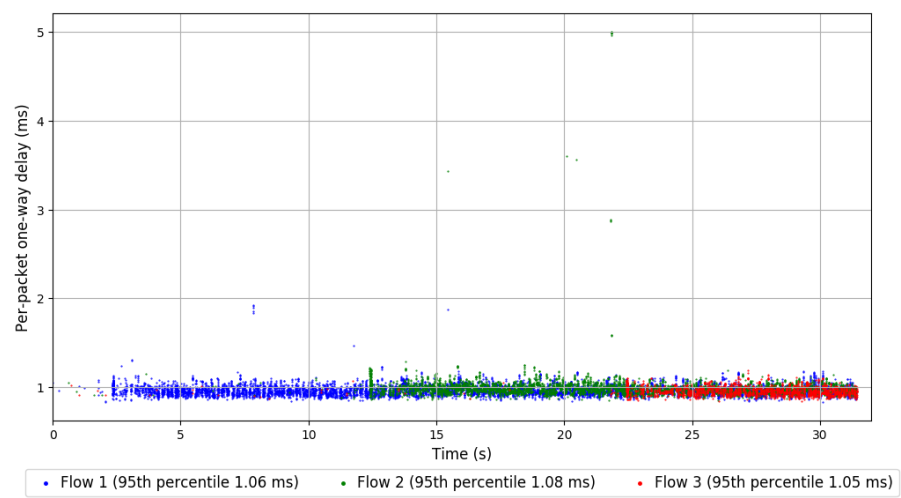
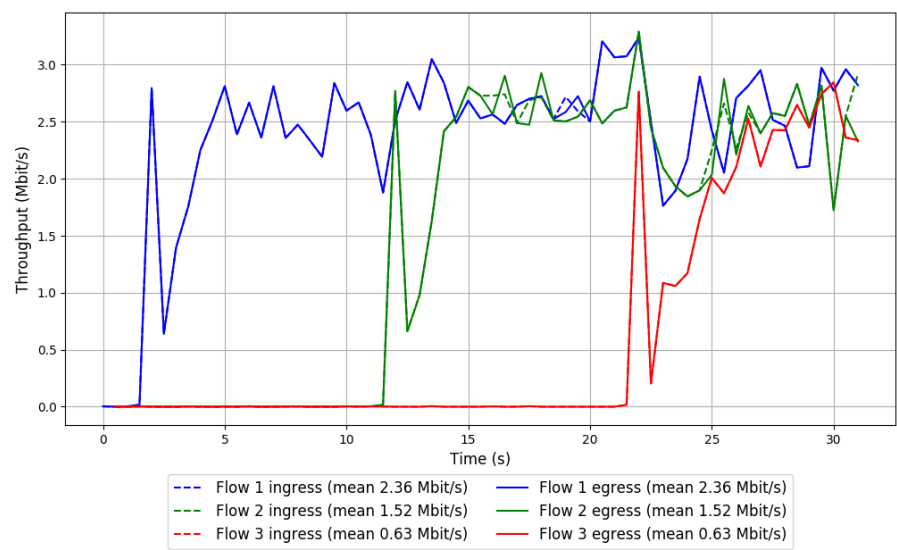


Run 5: Statistics of WebRTC media

Start at: 2017-11-30 19:22:31
End at: 2017-11-30 19:23:01
Local clock offset: 0.084 ms
Remote clock offset: -1.123 ms

Below is generated by plot.py at 2017-12-01 01:49:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 4.47 Mbit/s
95th percentile per-packet one-way delay: 1.065 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 2.36 Mbit/s
95th percentile per-packet one-way delay: 1.059 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.52 Mbit/s
95th percentile per-packet one-way delay: 1.084 ms
Loss rate: 0.63%
-- Flow 3:
Average throughput: 0.63 Mbit/s
95th percentile per-packet one-way delay: 1.046 ms
Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

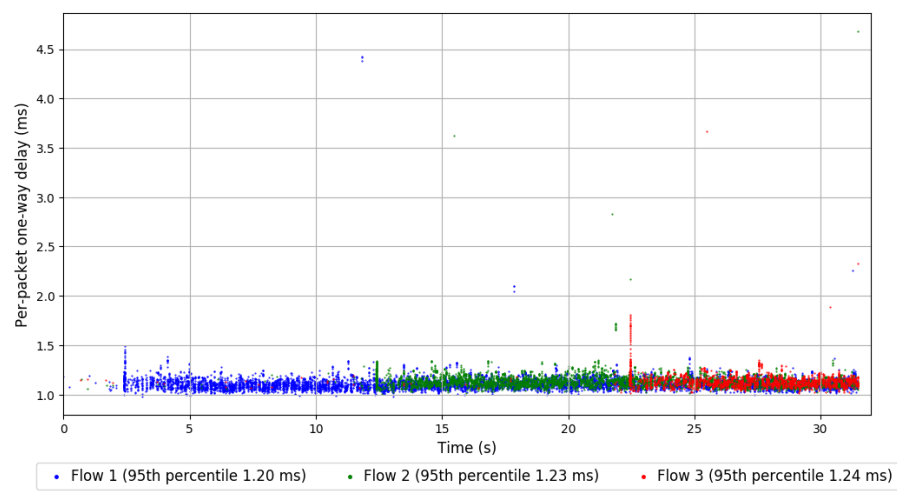
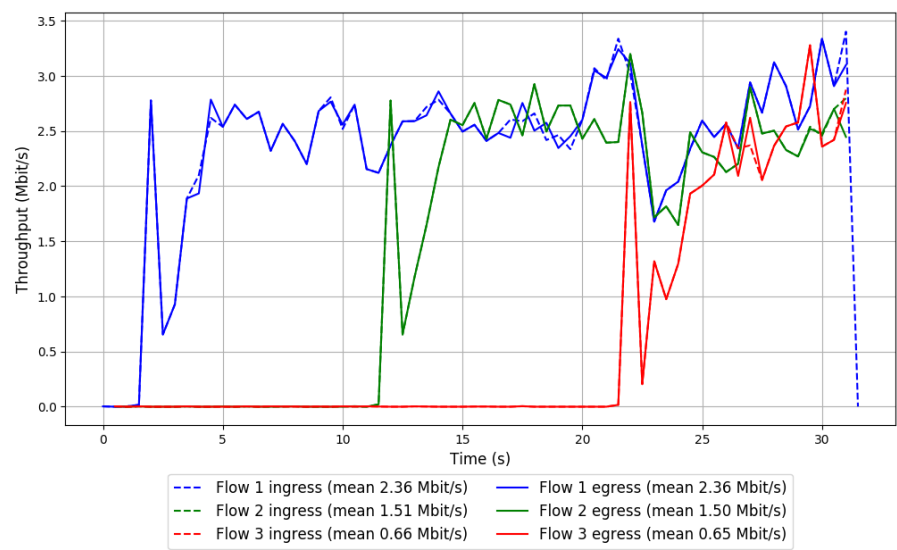


Run 6: Statistics of WebRTC media

Start at: 2017-11-30 19:43:09
End at: 2017-11-30 19:43:40
Local clock offset: 0.128 ms
Remote clock offset: -0.836 ms

Below is generated by plot.py at 2017-12-01 01:49:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 4.47 Mbit/s
95th percentile per-packet one-way delay: 1.212 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 2.36 Mbit/s
95th percentile per-packet one-way delay: 1.196 ms
Loss rate: 0.20%
-- Flow 2:
Average throughput: 1.50 Mbit/s
95th percentile per-packet one-way delay: 1.228 ms
Loss rate: 0.38%
-- Flow 3:
Average throughput: 0.65 Mbit/s
95th percentile per-packet one-way delay: 1.237 ms
Loss rate: 0.30%

Run 6: Report of WebRTC media — Data Link

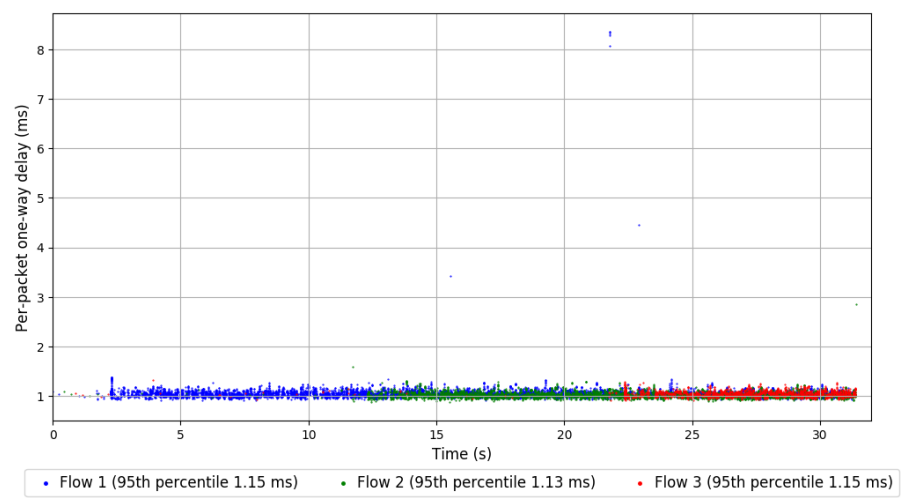
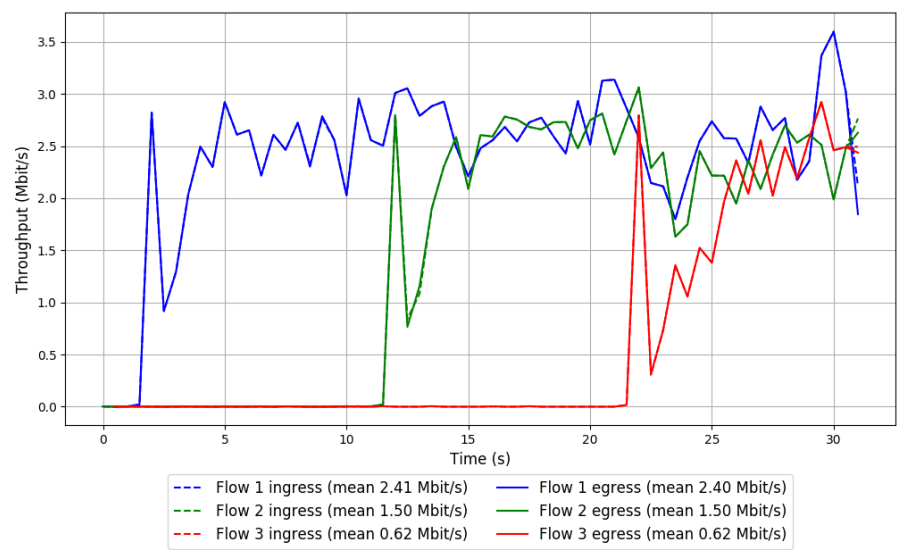


Run 7: Statistics of WebRTC media

Start at: 2017-11-30 20:03:51
End at: 2017-11-30 20:04:21
Local clock offset: -0.009 ms
Remote clock offset: -1.031 ms

Below is generated by plot.py at 2017-12-01 01:49:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 4.48 Mbit/s
95th percentile per-packet one-way delay: 1.145 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 2.40 Mbit/s
95th percentile per-packet one-way delay: 1.153 ms
Loss rate: 0.18%
-- Flow 2:
Average throughput: 1.50 Mbit/s
95th percentile per-packet one-way delay: 1.130 ms
Loss rate: 0.15%
-- Flow 3:
Average throughput: 0.62 Mbit/s
95th percentile per-packet one-way delay: 1.146 ms
Loss rate: 0.15%

Run 7: Report of WebRTC media — Data Link

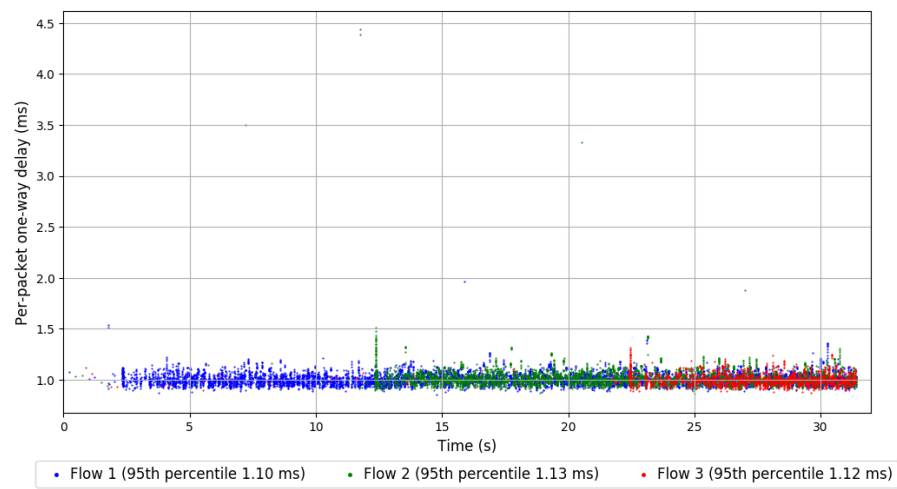
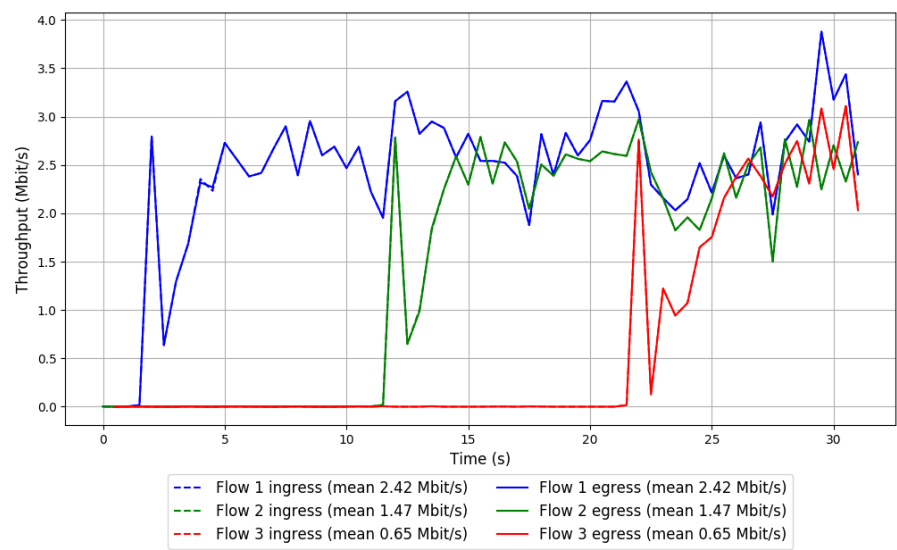


Run 8: Statistics of WebRTC media

Start at: 2017-11-30 20:24:24
End at: 2017-11-30 20:24:54
Local clock offset: 0.078 ms
Remote clock offset: -1.069 ms

Below is generated by plot.py at 2017-12-01 01:49:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 4.50 Mbit/s
95th percentile per-packet one-way delay: 1.113 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 2.42 Mbit/s
95th percentile per-packet one-way delay: 1.102 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.47 Mbit/s
95th percentile per-packet one-way delay: 1.132 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.65 Mbit/s
95th percentile per-packet one-way delay: 1.117 ms
Loss rate: 0.10%

Run 8: Report of WebRTC media — Data Link

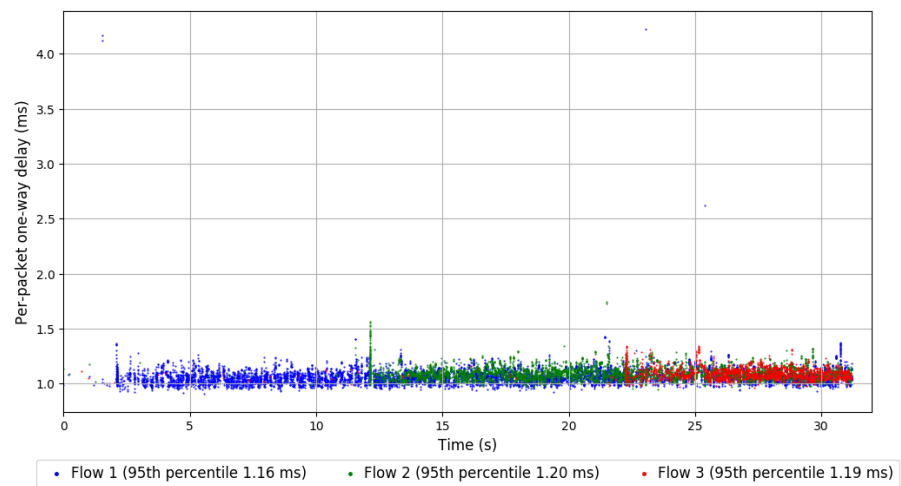
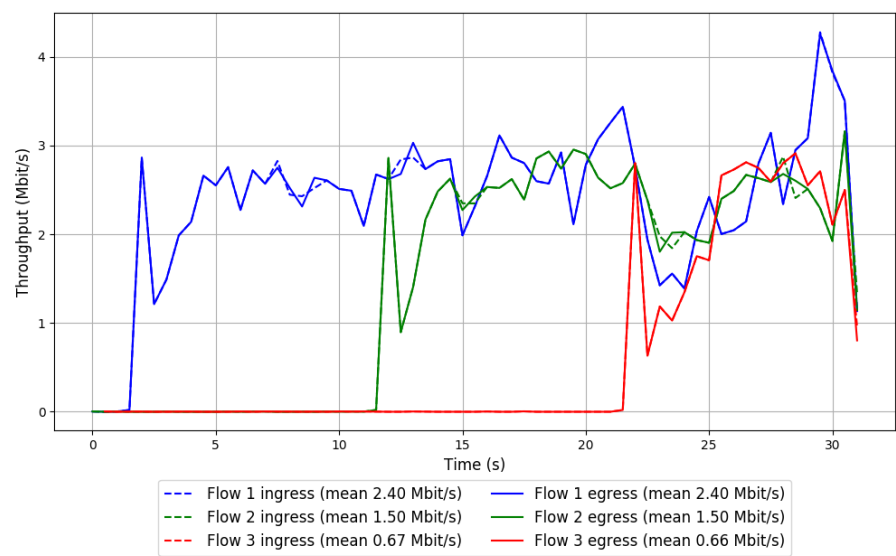


Run 9: Statistics of WebRTC media

Start at: 2017-11-30 20:44:56
End at: 2017-11-30 20:45:26
Local clock offset: 0.036 ms
Remote clock offset: -0.895 ms

Below is generated by plot.py at 2017-12-01 01:49:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 4.55 Mbit/s
95th percentile per-packet one-way delay: 1.181 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 2.40 Mbit/s
95th percentile per-packet one-way delay: 1.164 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.50 Mbit/s
95th percentile per-packet one-way delay: 1.199 ms
Loss rate: 0.21%
-- Flow 3:
Average throughput: 0.66 Mbit/s
95th percentile per-packet one-way delay: 1.188 ms
Loss rate: 0.38%

Run 9: Report of WebRTC media — Data Link

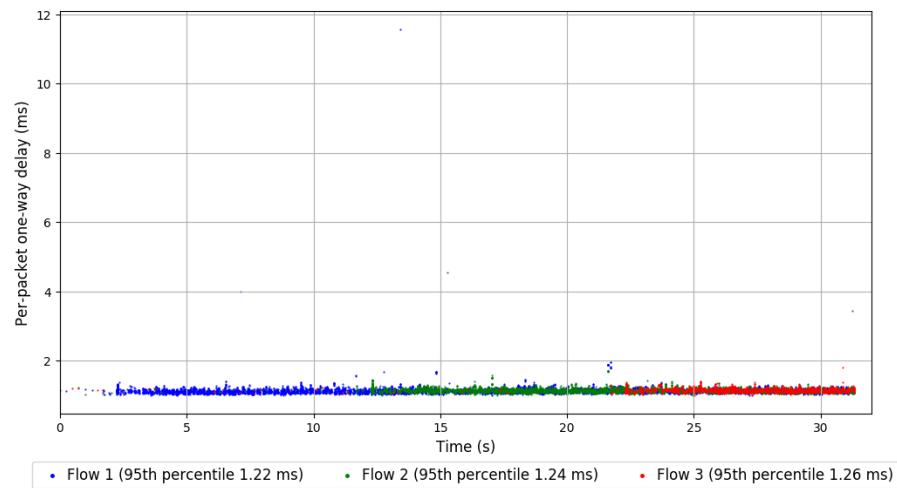
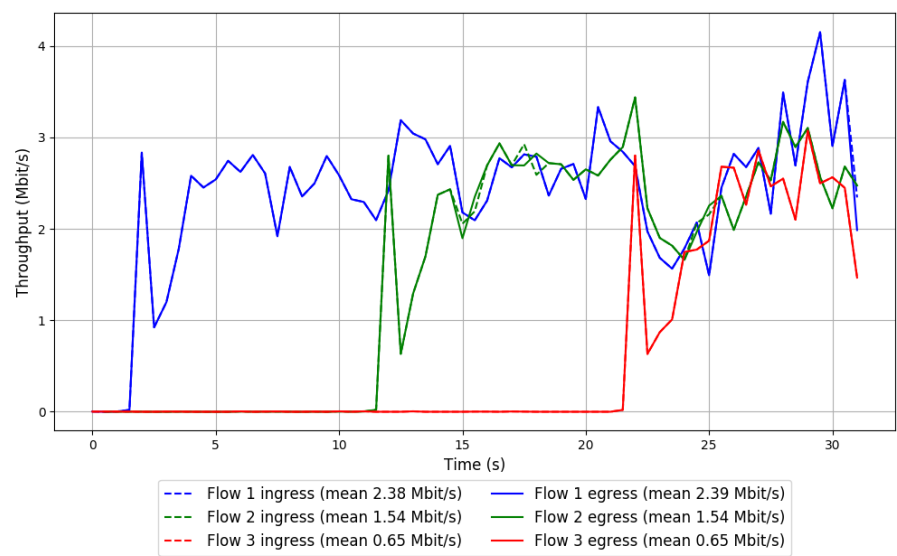


Run 10: Statistics of WebRTC media

Start at: 2017-11-30 21:05:16
End at: 2017-11-30 21:05:46
Local clock offset: 0.01 ms
Remote clock offset: -1.027 ms

Below is generated by plot.py at 2017-12-01 01:49:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 4.54 Mbit/s
95th percentile per-packet one-way delay: 1.234 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 2.39 Mbit/s
95th percentile per-packet one-way delay: 1.224 ms
Loss rate: 0.24%
-- Flow 2:
Average throughput: 1.54 Mbit/s
95th percentile per-packet one-way delay: 1.239 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.65 Mbit/s
95th percentile per-packet one-way delay: 1.257 ms
Loss rate: 0.01%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2017-11-30 18:10:16

End at: 2017-11-30 18:10:46

Local clock offset: 0.173 ms

Remote clock offset: -2.25 ms

Below is generated by plot.py at 2017-12-01 01:49:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 49.54 Mbit/s

95th percentile per-packet one-way delay: 1.129 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 24.94 Mbit/s

95th percentile per-packet one-way delay: 1.118 ms

Loss rate: 0.14%

-- Flow 2:

Average throughput: 24.80 Mbit/s

95th percentile per-packet one-way delay: 1.117 ms

Loss rate: 0.00%

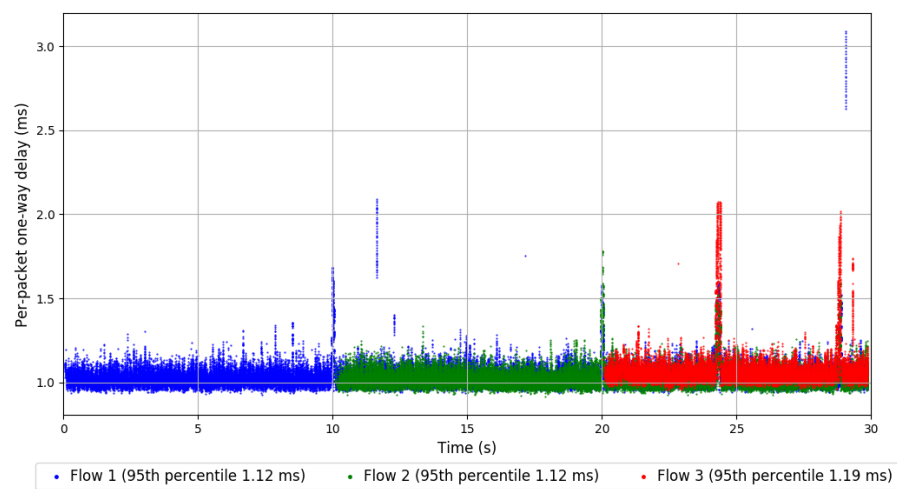
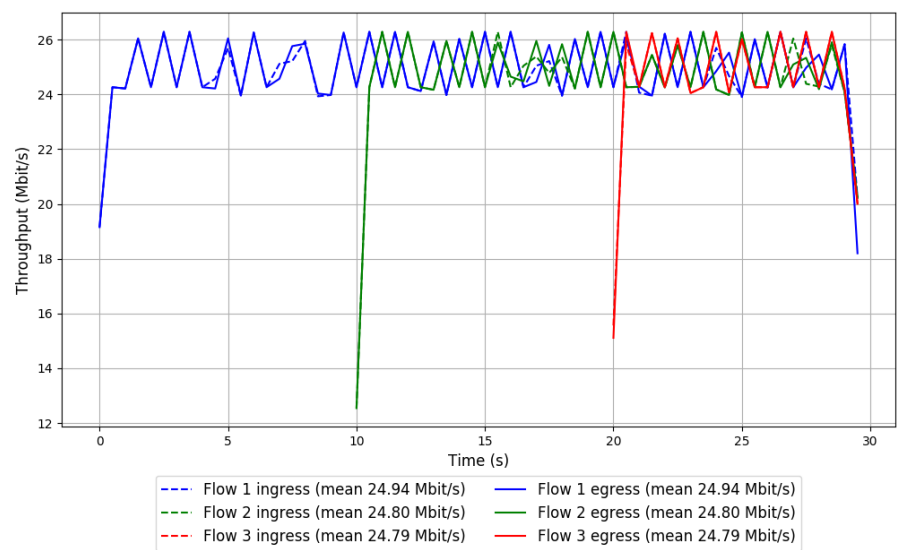
-- Flow 3:

Average throughput: 24.79 Mbit/s

95th percentile per-packet one-way delay: 1.187 ms

Loss rate: 0.00%

Run 1: Report of Sprout — Data Link

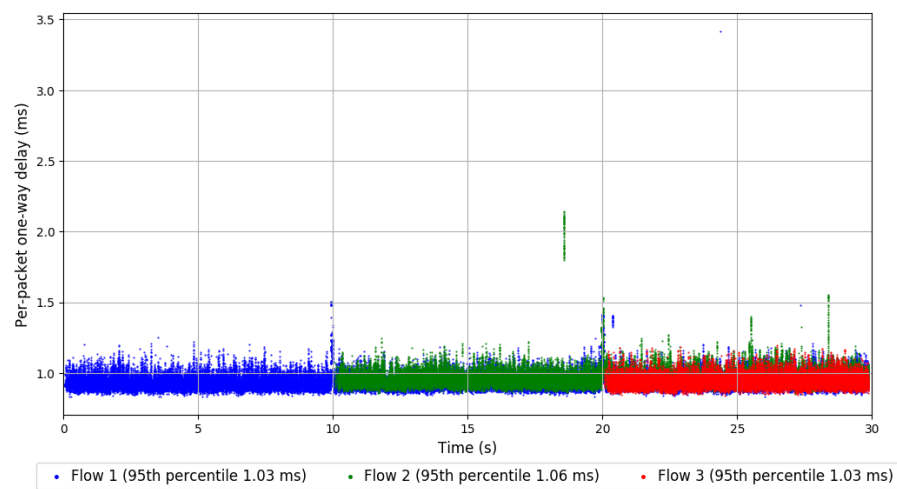
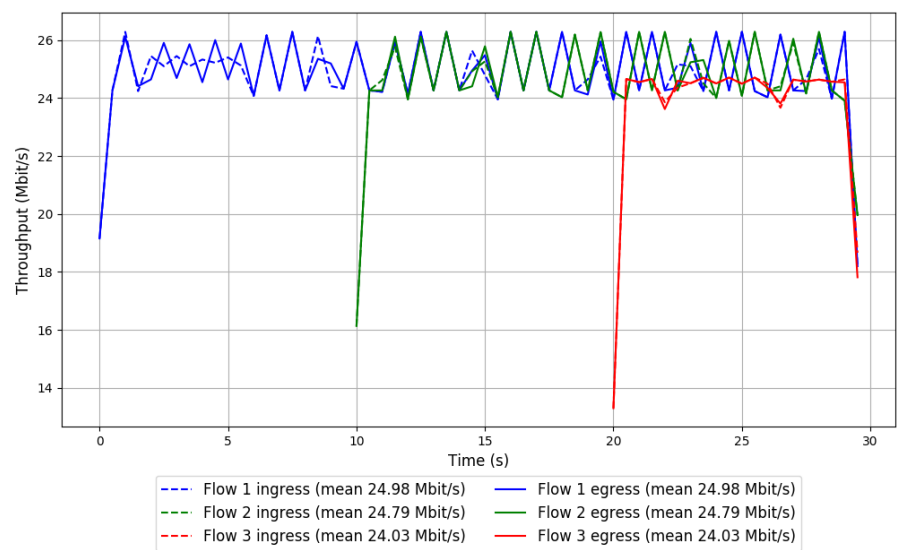


Run 2: Statistics of Sprout

Start at: 2017-11-30 18:30:51
End at: 2017-11-30 18:31:21
Local clock offset: 0.166 ms
Remote clock offset: -1.684 ms

Below is generated by plot.py at 2017-12-01 01:49:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 49.36 Mbit/s
95th percentile per-packet one-way delay: 1.046 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 24.98 Mbit/s
95th percentile per-packet one-way delay: 1.033 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 24.79 Mbit/s
95th percentile per-packet one-way delay: 1.064 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 24.03 Mbit/s
95th percentile per-packet one-way delay: 1.032 ms
Loss rate: 0.20%

Run 2: Report of Sprout — Data Link

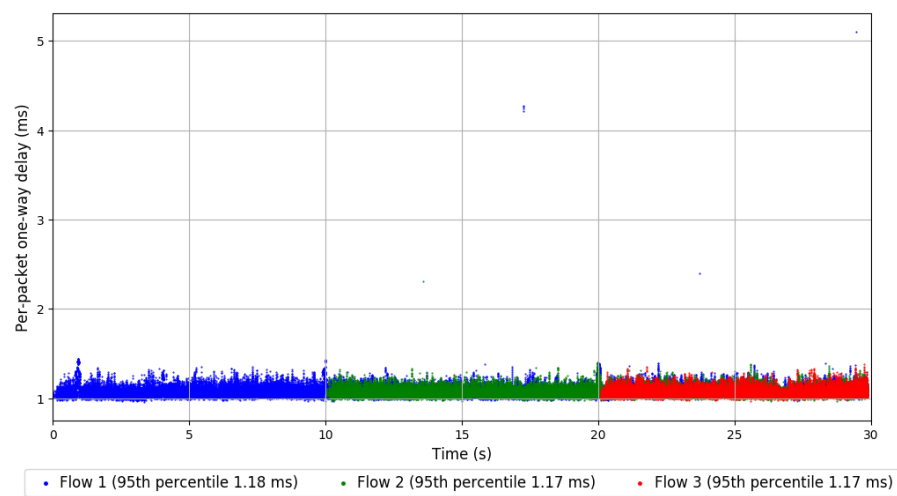
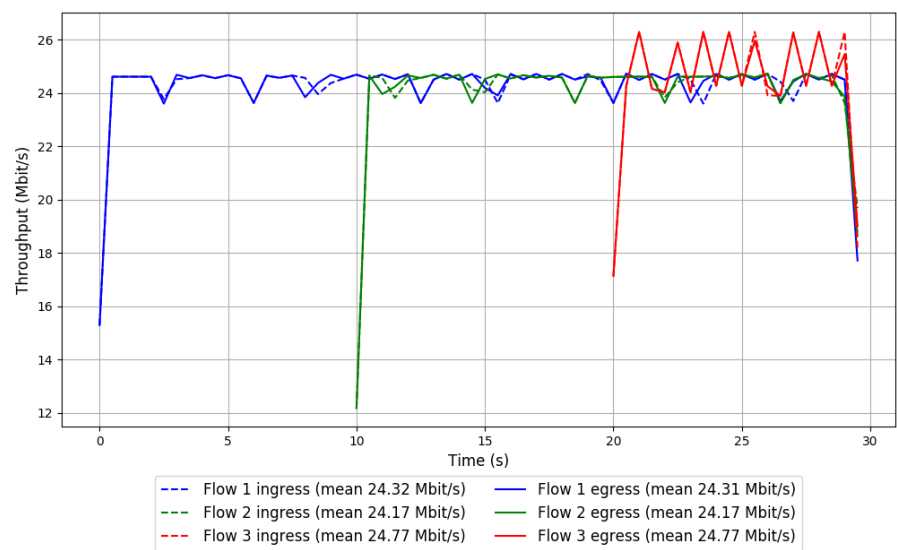


Run 3: Statistics of Sprout

Start at: 2017-11-30 18:51:37
End at: 2017-11-30 18:52:07
Local clock offset: 0.254 ms
Remote clock offset: -1.652 ms

Below is generated by plot.py at 2017-12-01 01:49:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 48.53 Mbit/s
95th percentile per-packet one-way delay: 1.174 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 24.31 Mbit/s
95th percentile per-packet one-way delay: 1.179 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 24.17 Mbit/s
95th percentile per-packet one-way delay: 1.167 ms
Loss rate: 0.11%
-- Flow 3:
Average throughput: 24.77 Mbit/s
95th percentile per-packet one-way delay: 1.172 ms
Loss rate: 0.00%

Run 3: Report of Sprout — Data Link

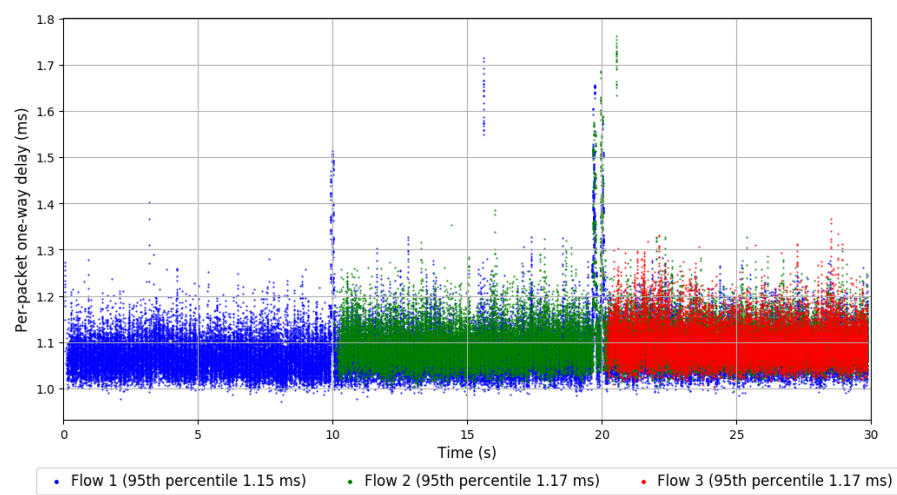
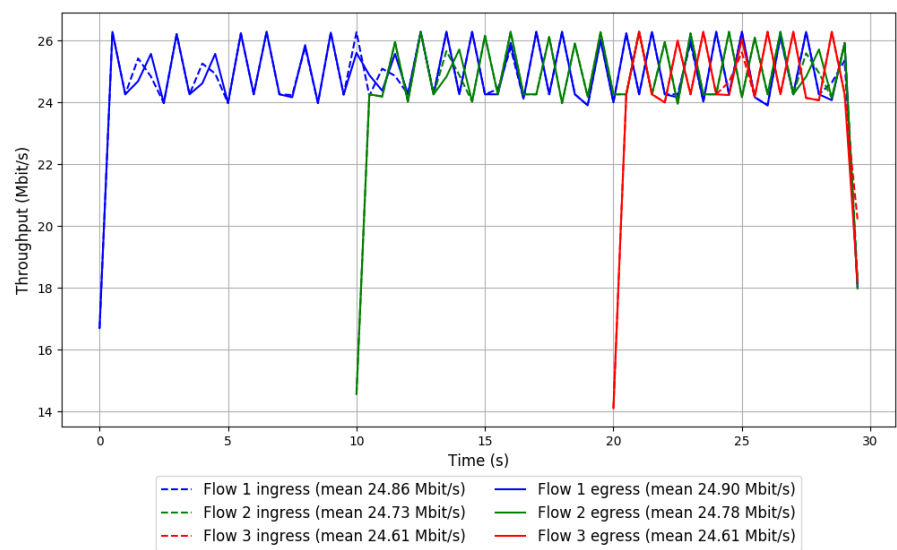


Run 4: Statistics of Sprout

Start at: 2017-11-30 19:12:18
End at: 2017-11-30 19:12:48
Local clock offset: 0.149 ms
Remote clock offset: -1.259 ms

```
# Below is generated by plot.py at 2017-12-01 01:49:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 49.45 Mbit/s
95th percentile per-packet one-way delay: 1.163 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 24.90 Mbit/s
95th percentile per-packet one-way delay: 1.152 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 24.78 Mbit/s
95th percentile per-packet one-way delay: 1.172 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 24.61 Mbit/s
95th percentile per-packet one-way delay: 1.171 ms
Loss rate: 0.42%
```

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2017-11-30 19:32:56

End at: 2017-11-30 19:33:26

Local clock offset: 0.073 ms

Remote clock offset: -0.96 ms

Below is generated by plot.py at 2017-12-01 01:49:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 49.39 Mbit/s

95th percentile per-packet one-way delay: 1.052 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 24.96 Mbit/s

95th percentile per-packet one-way delay: 1.040 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 24.91 Mbit/s

95th percentile per-packet one-way delay: 1.061 ms

Loss rate: 0.20%

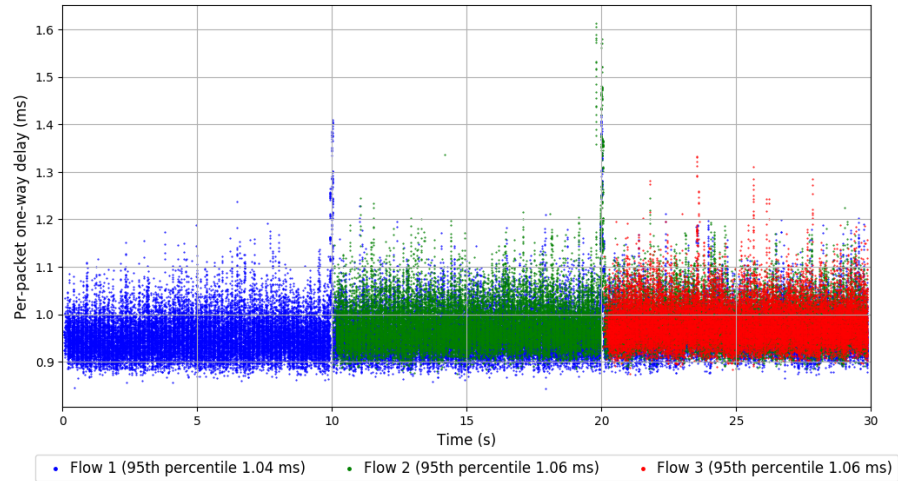
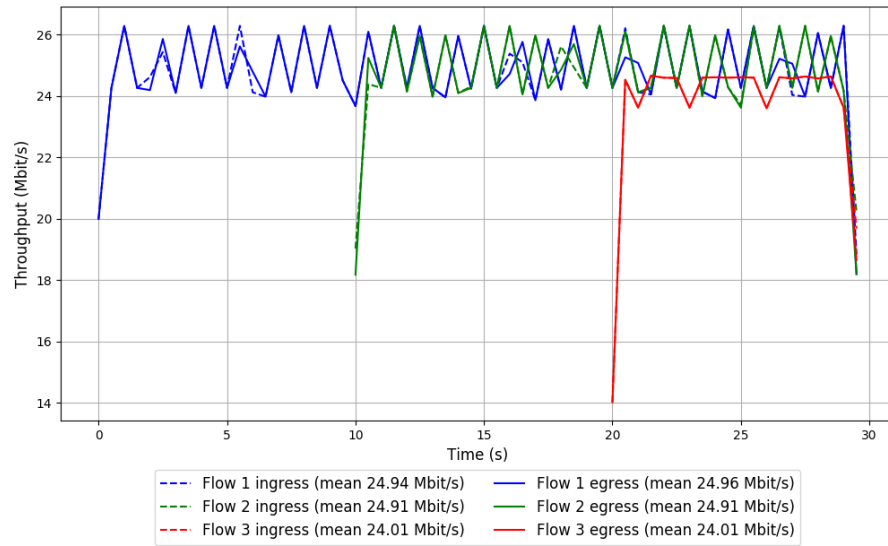
-- Flow 3:

Average throughput: 24.01 Mbit/s

95th percentile per-packet one-way delay: 1.061 ms

Loss rate: 0.22%

Run 5: Report of Sprout — Data Link

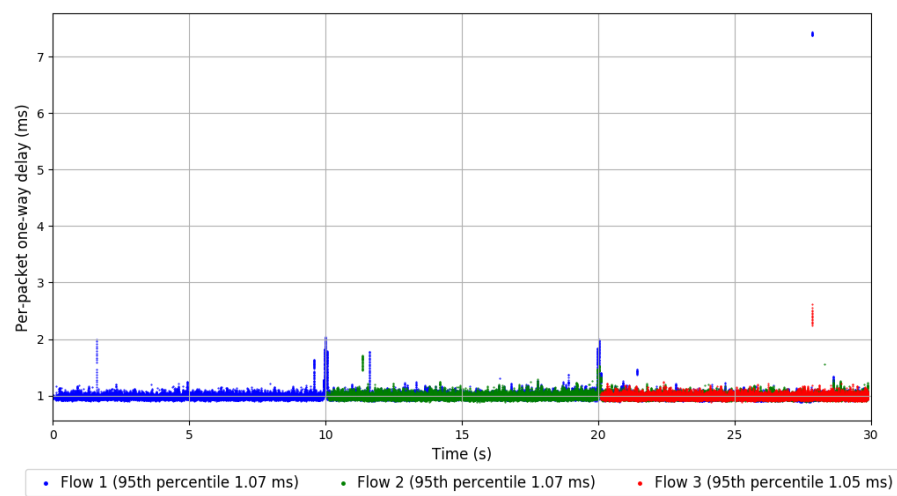
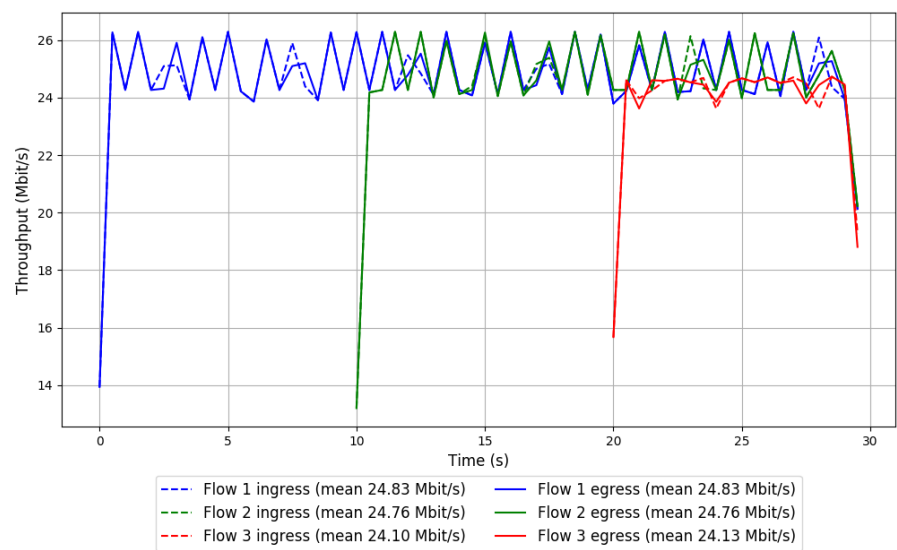


Run 6: Statistics of Sprout

Start at: 2017-11-30 19:53:37
End at: 2017-11-30 19:54:07
Local clock offset: -0.01 ms
Remote clock offset: -0.897 ms

Below is generated by plot.py at 2017-12-01 01:49:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 49.21 Mbit/s
95th percentile per-packet one-way delay: 1.066 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 24.83 Mbit/s
95th percentile per-packet one-way delay: 1.067 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 24.76 Mbit/s
95th percentile per-packet one-way delay: 1.069 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 24.13 Mbit/s
95th percentile per-packet one-way delay: 1.055 ms
Loss rate: 0.10%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2017-11-30 20:14:14

End at: 2017-11-30 20:14:44

Local clock offset: 0.144 ms

Remote clock offset: -0.92 ms

Below is generated by plot.py at 2017-12-01 01:49:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 49.42 Mbit/s

95th percentile per-packet one-way delay: 1.176 ms

Loss rate: 0.20%

-- Flow 1:

Average throughput: 24.85 Mbit/s

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

Loss rate: 0.13%

-- Flow 2:

Average throughput: 24.90 Mbit/s

95th percentile per-packet one-way delay: 1.157 ms

Loss rate: 0.20%

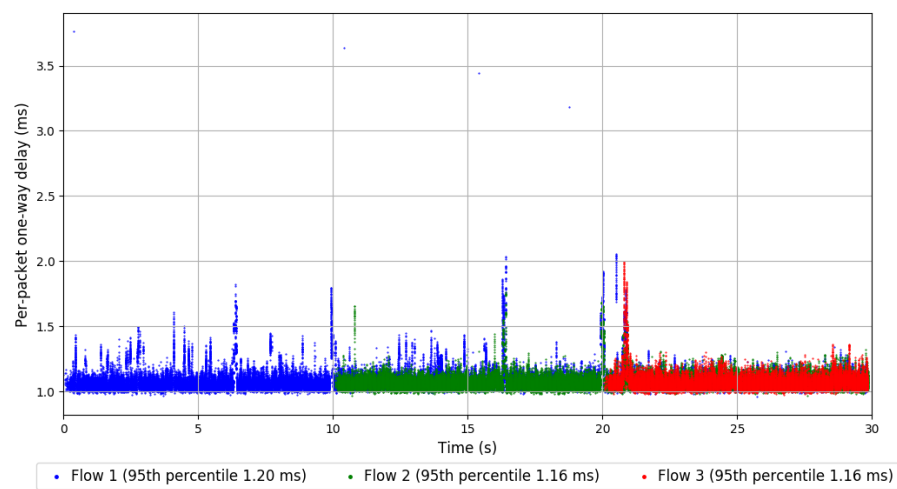
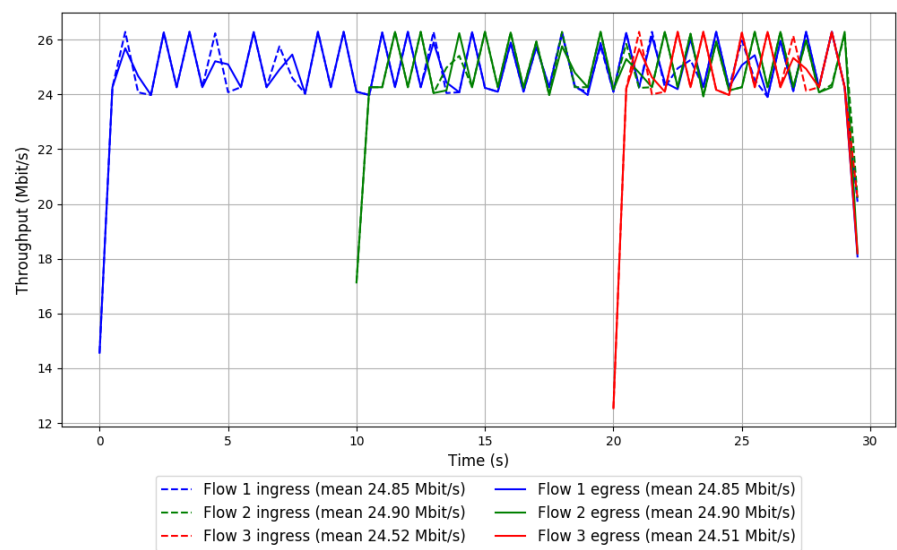
-- Flow 3:

Average throughput: 24.51 Mbit/s

95th percentile per-packet one-way delay: 1.164 ms

Loss rate: 0.42%

Run 7: Report of Sprout — Data Link

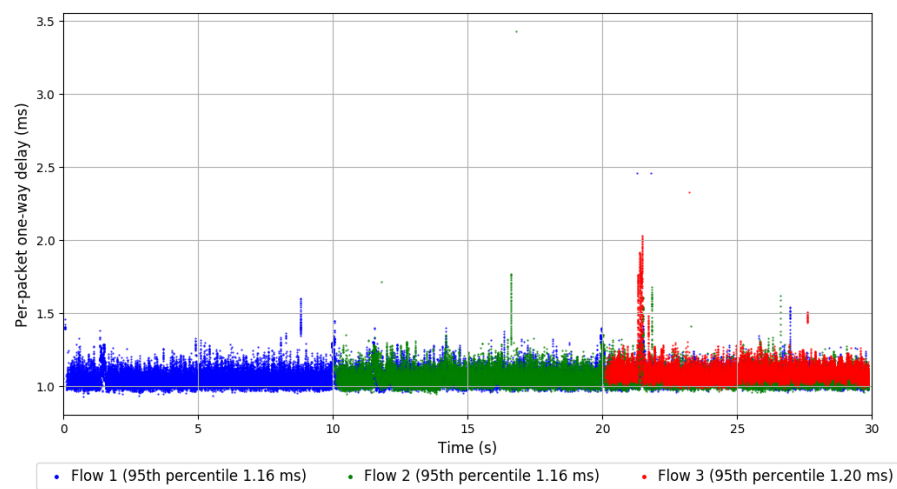
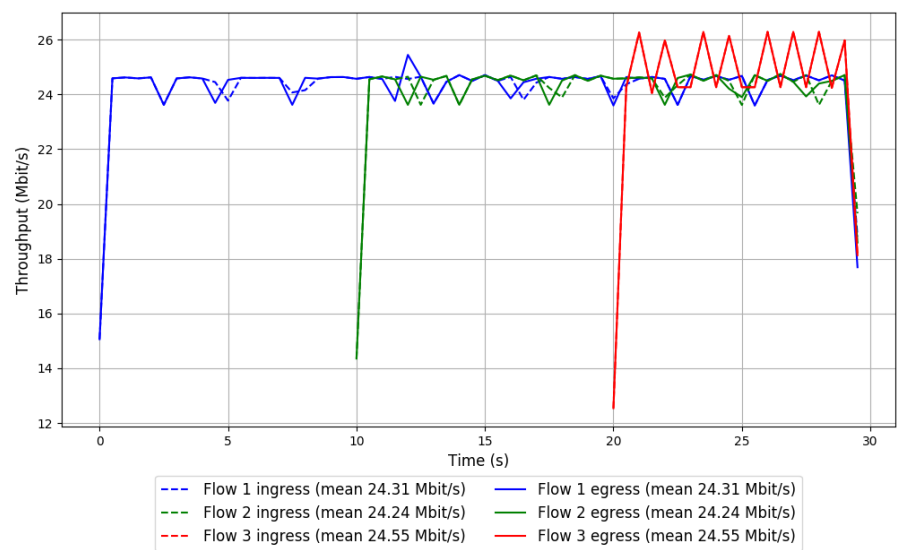


Run 8: Statistics of Sprout

Start at: 2017-11-30 20:34:48
End at: 2017-11-30 20:35:18
Local clock offset: 0.101 ms
Remote clock offset: -1.034 ms

Below is generated by plot.py at 2017-12-01 01:49:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 48.49 Mbit/s
95th percentile per-packet one-way delay: 1.166 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 24.31 Mbit/s
95th percentile per-packet one-way delay: 1.155 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 24.24 Mbit/s
95th percentile per-packet one-way delay: 1.162 ms
Loss rate: 0.11%
-- Flow 3:
Average throughput: 24.55 Mbit/s
95th percentile per-packet one-way delay: 1.196 ms
Loss rate: 0.00%

Run 8: Report of Sprout — Data Link

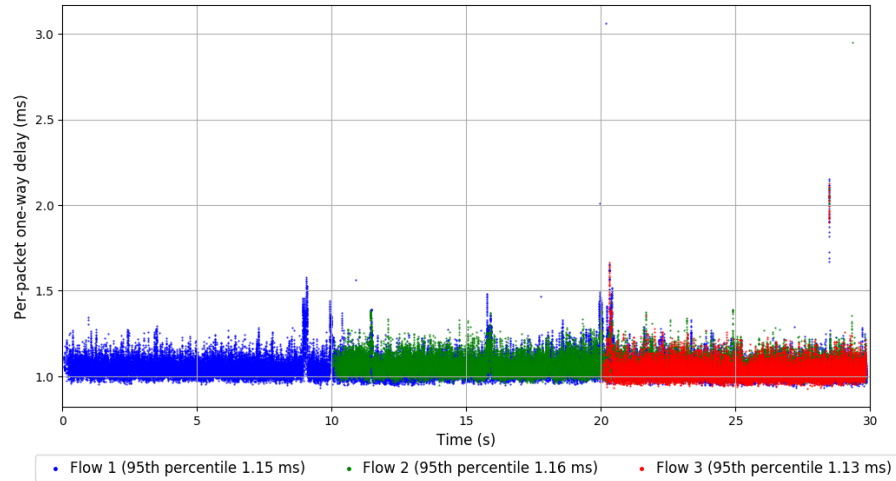
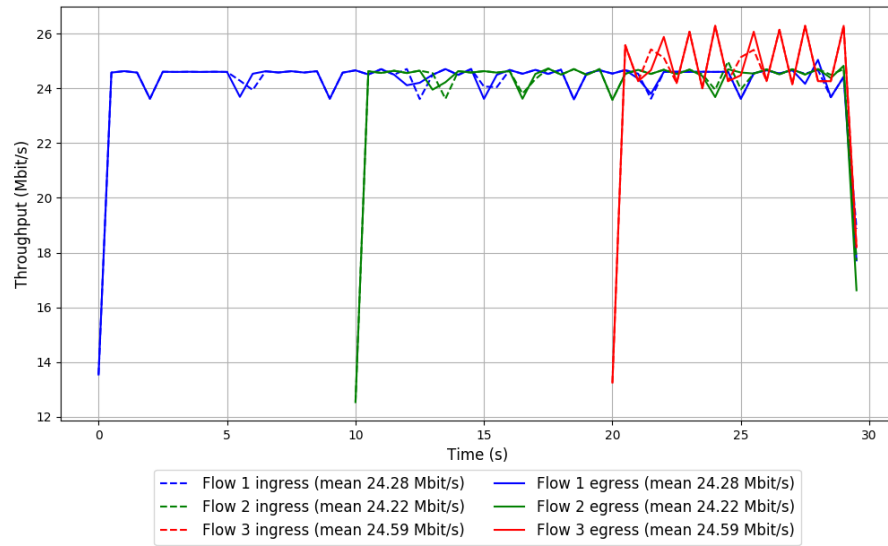


Run 9: Statistics of Sprout

Start at: 2017-11-30 20:55:20
End at: 2017-11-30 20:55:50
Local clock offset: -0.014 ms
Remote clock offset: -0.824 ms

Below is generated by plot.py at 2017-12-01 01:49:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 48.45 Mbit/s
95th percentile per-packet one-way delay: 1.151 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 24.28 Mbit/s
95th percentile per-packet one-way delay: 1.152 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 24.22 Mbit/s
95th percentile per-packet one-way delay: 1.158 ms
Loss rate: 0.11%
-- Flow 3:
Average throughput: 24.59 Mbit/s
95th percentile per-packet one-way delay: 1.126 ms
Loss rate: 0.00%

Run 9: Report of Sprout — Data Link

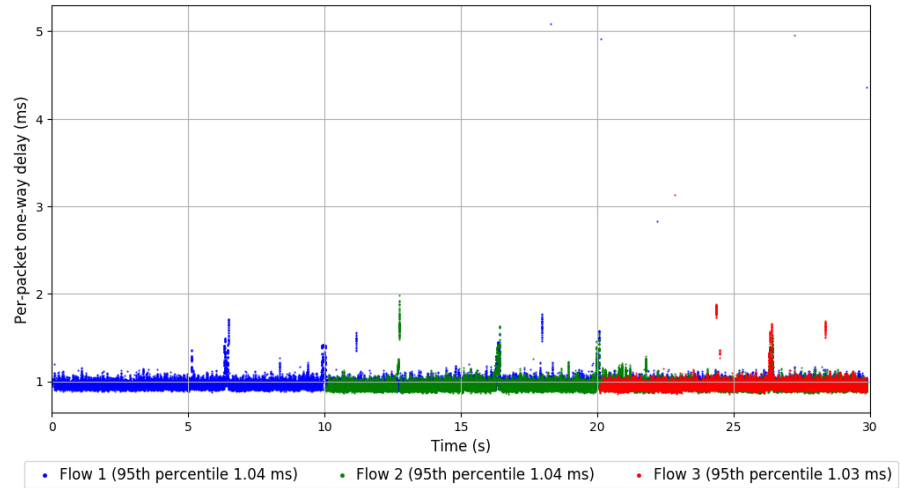
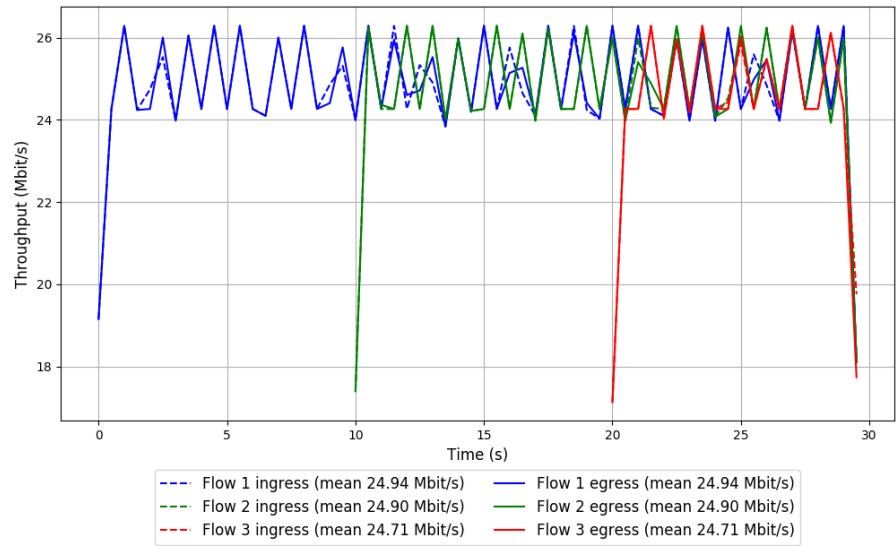


Run 10: Statistics of Sprout

Start at: 2017-11-30 21:15:43
End at: 2017-11-30 21:16:13
Local clock offset: 0.002 ms
Remote clock offset: -0.773 ms

Below is generated by plot.py at 2017-12-01 01:49:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 49.59 Mbit/s
95th percentile per-packet one-way delay: 1.041 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 24.94 Mbit/s
95th percentile per-packet one-way delay: 1.045 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 24.90 Mbit/s
95th percentile per-packet one-way delay: 1.041 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 24.71 Mbit/s
95th percentile per-packet one-way delay: 1.026 ms
Loss rate: 0.42%

Run 10: Report of Sprout — Data Link

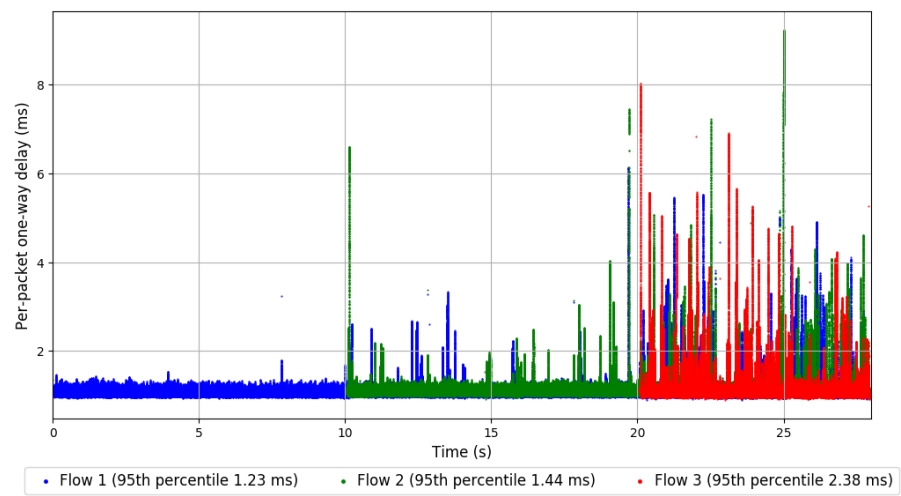
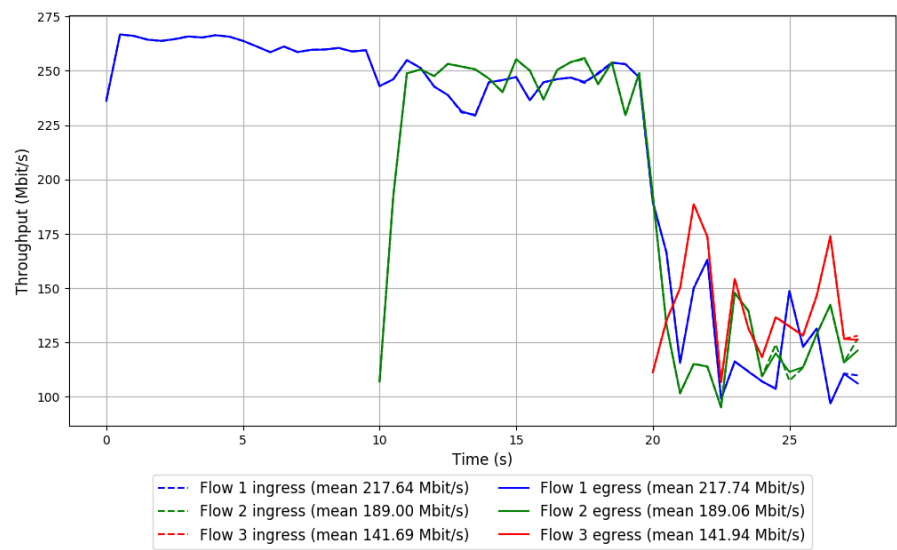


```
Run 1: Statistics of TaoVA-100x

Start at: 2017-11-30 17:58:14
End at: 2017-11-30 17:58:44
Local clock offset: 0.267 ms
Remote clock offset: -2.29 ms

# Below is generated by plot.py at 2017-12-01 01:55:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 379.03 Mbit/s
95th percentile per-packet one-way delay: 1.386 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 217.74 Mbit/s
95th percentile per-packet one-way delay: 1.227 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 189.06 Mbit/s
95th percentile per-packet one-way delay: 1.443 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 141.94 Mbit/s
95th percentile per-packet one-way delay: 2.385 ms
Loss rate: 0.09%
```


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



Run 2: Statistics of TaoVA-100x

Start at: 2017-11-30 18:18:46

End at: 2017-11-30 18:19:16

Local clock offset: 0.291 ms

Remote clock offset: -2.14 ms

Below is generated by plot.py at 2017-12-01 01:55:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 389.17 Mbit/s

95th percentile per-packet one-way delay: 1.406 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 220.63 Mbit/s

95th percentile per-packet one-way delay: 1.340 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 198.16 Mbit/s

95th percentile per-packet one-way delay: 1.411 ms

Loss rate: 0.08%

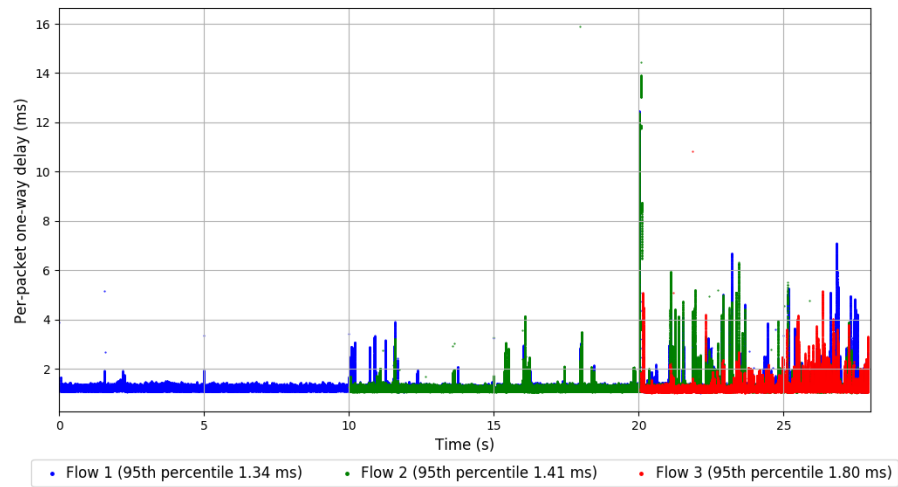
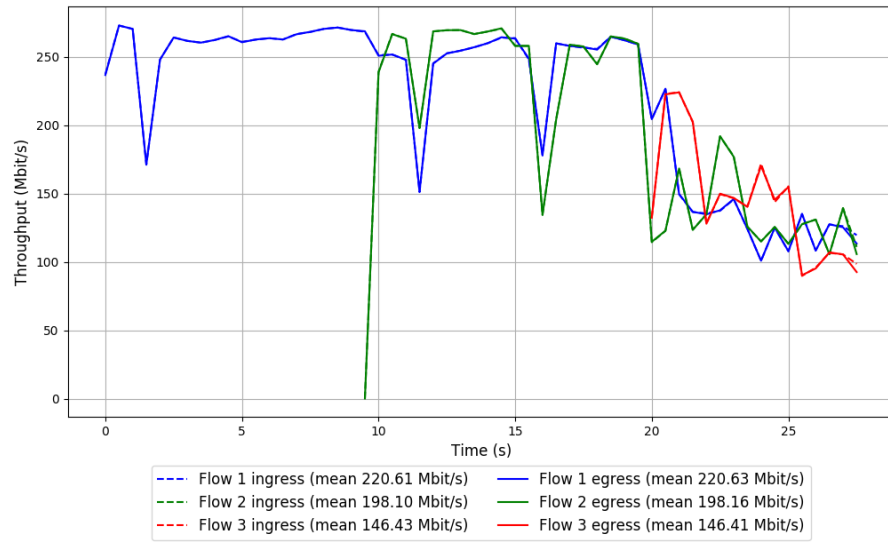
-- Flow 3:

Average throughput: 146.41 Mbit/s

95th percentile per-packet one-way delay: 1.800 ms

Loss rate: 0.27%

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

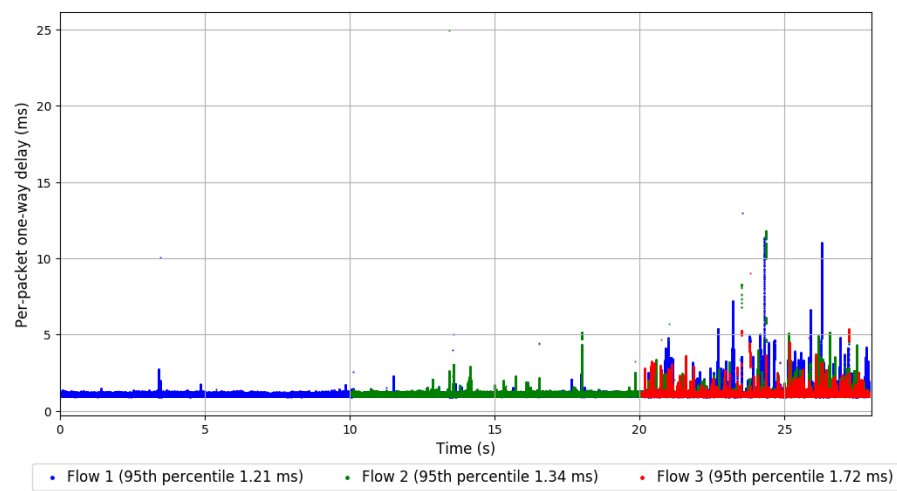
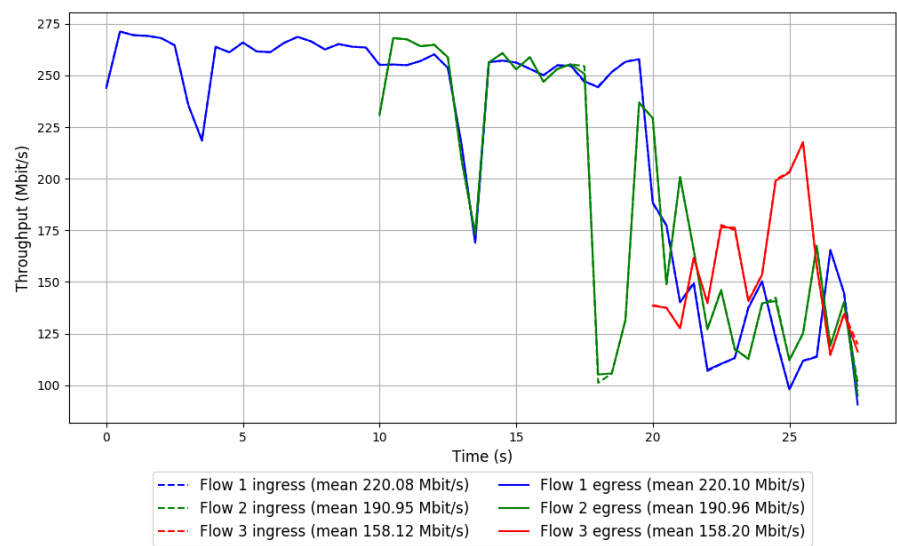


Run 3: Statistics of TaoVA-100x

Start at: 2017-11-30 18:39:24
End at: 2017-11-30 18:39:54
Local clock offset: 0.274 ms
Remote clock offset: -1.671 ms

Below is generated by plot.py at 2017-12-01 01:56:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 387.20 Mbit/s
95th percentile per-packet one-way delay: 1.326 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 220.10 Mbit/s
95th percentile per-packet one-way delay: 1.208 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 190.96 Mbit/s
95th percentile per-packet one-way delay: 1.343 ms
Loss rate: 0.11%
-- Flow 3:
Average throughput: 158.20 Mbit/s
95th percentile per-packet one-way delay: 1.724 ms
Loss rate: 0.20%

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

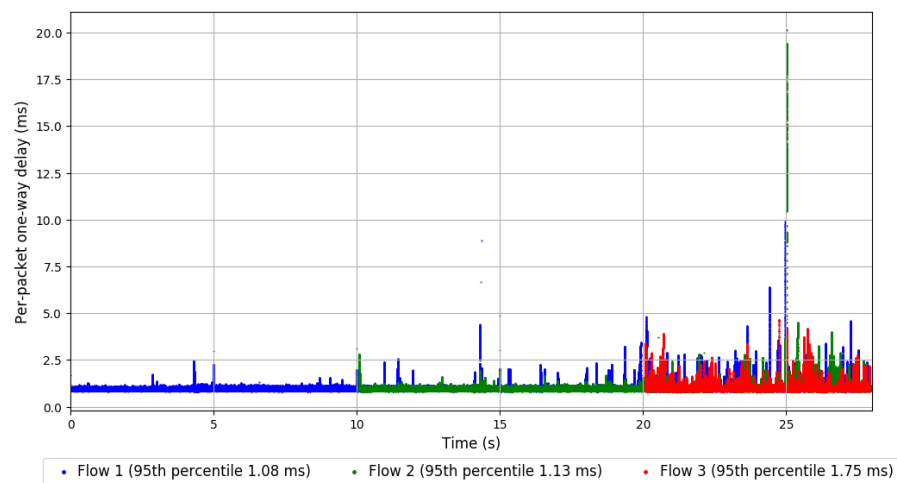
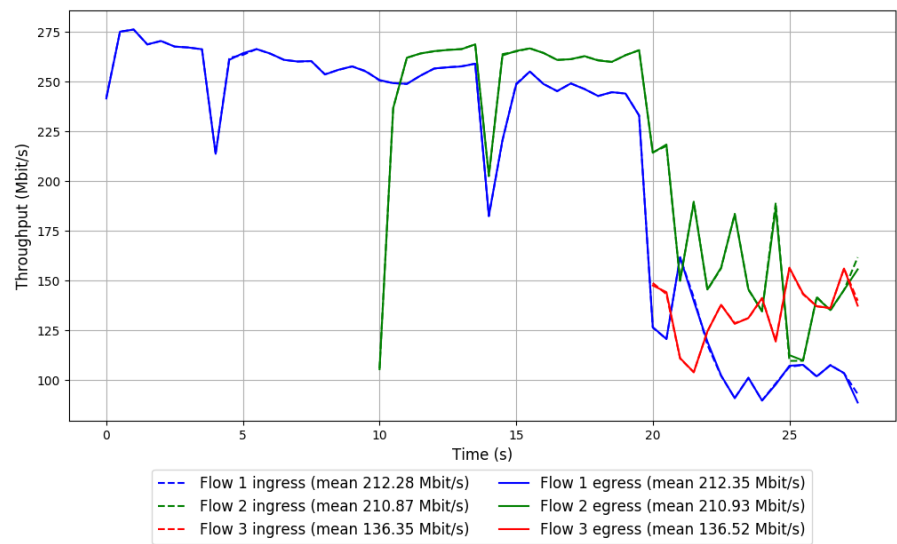


Run 4: Statistics of TaoVA-100x

Start at: 2017-11-30 19:00:14
End at: 2017-11-30 19:00:44
Local clock offset: 0.149 ms
Remote clock offset: -1.468 ms

Below is generated by plot.py at 2017-12-01 01:56:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 386.13 Mbit/s
95th percentile per-packet one-way delay: 1.161 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 212.35 Mbit/s
95th percentile per-packet one-way delay: 1.076 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 210.93 Mbit/s
95th percentile per-packet one-way delay: 1.127 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 136.52 Mbit/s
95th percentile per-packet one-way delay: 1.750 ms
Loss rate: 0.12%

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

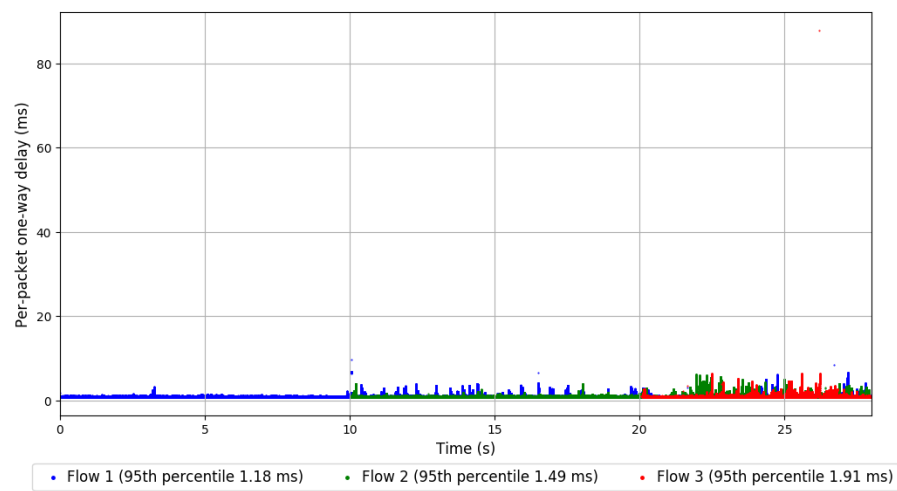
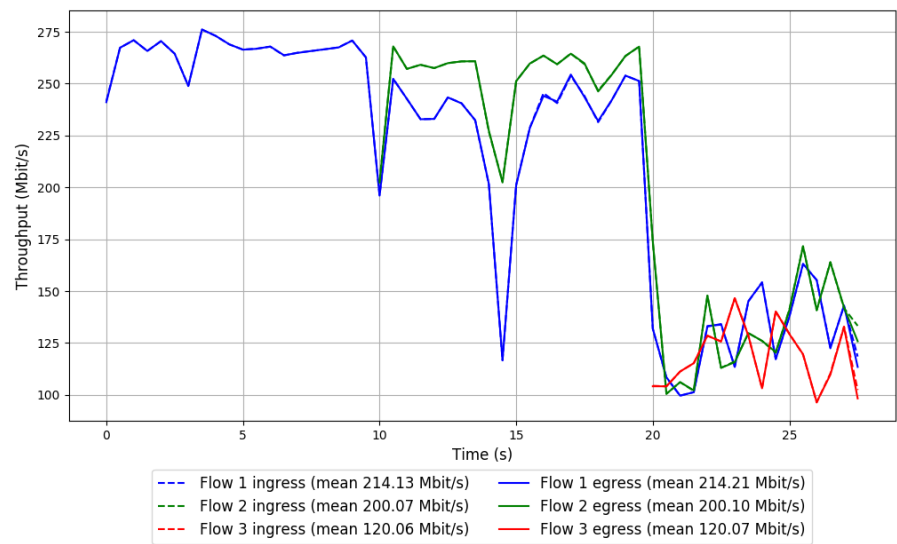


Run 5: Statistics of TaoVA-100x

Start at: 2017-11-30 19:20:54
End at: 2017-11-30 19:21:24
Local clock offset: 0.102 ms
Remote clock offset: -1.113 ms

Below is generated by plot.py at 2017-12-01 01:56:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 376.36 Mbit/s
95th percentile per-packet one-way delay: 1.349 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 214.21 Mbit/s
95th percentile per-packet one-way delay: 1.181 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 200.10 Mbit/s
95th percentile per-packet one-way delay: 1.493 ms
Loss rate: 0.11%
-- Flow 3:
Average throughput: 120.07 Mbit/s
95th percentile per-packet one-way delay: 1.905 ms
Loss rate: 0.26%

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

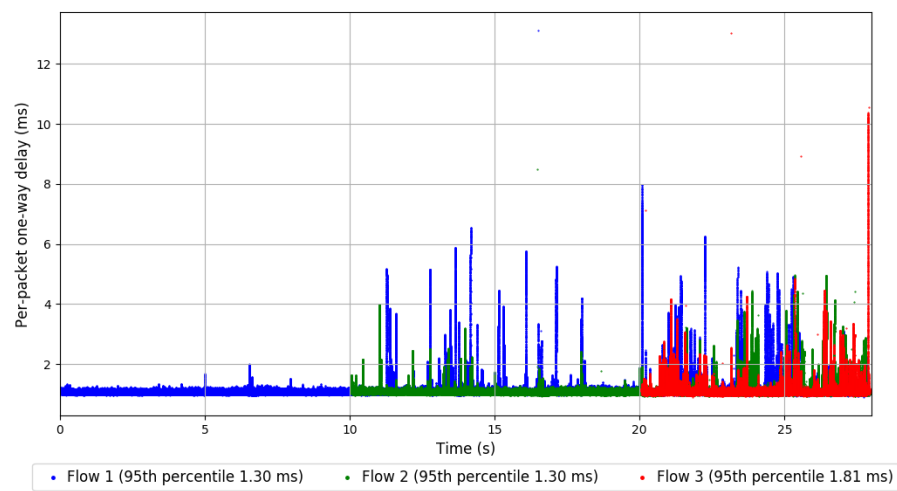
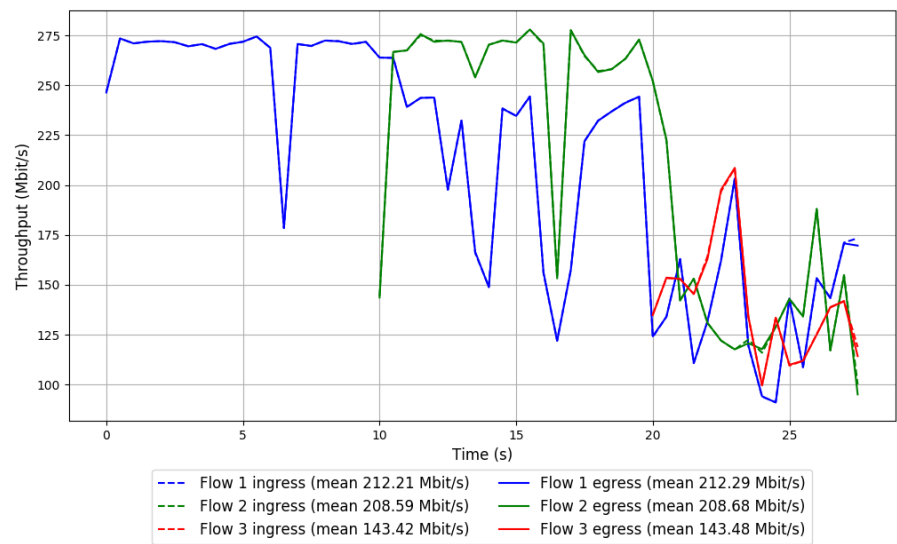


Run 6: Statistics of TaoVA-100x

Start at: 2017-11-30 19:41:31
End at: 2017-11-30 19:42:01
Local clock offset: 0.062 ms
Remote clock offset: -0.832 ms

Below is generated by plot.py at 2017-12-01 01:56:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 386.64 Mbit/s
95th percentile per-packet one-way delay: 1.377 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 212.29 Mbit/s
95th percentile per-packet one-way delay: 1.300 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 208.68 Mbit/s
95th percentile per-packet one-way delay: 1.297 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 143.48 Mbit/s
95th percentile per-packet one-way delay: 1.812 ms
Loss rate: 0.21%

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

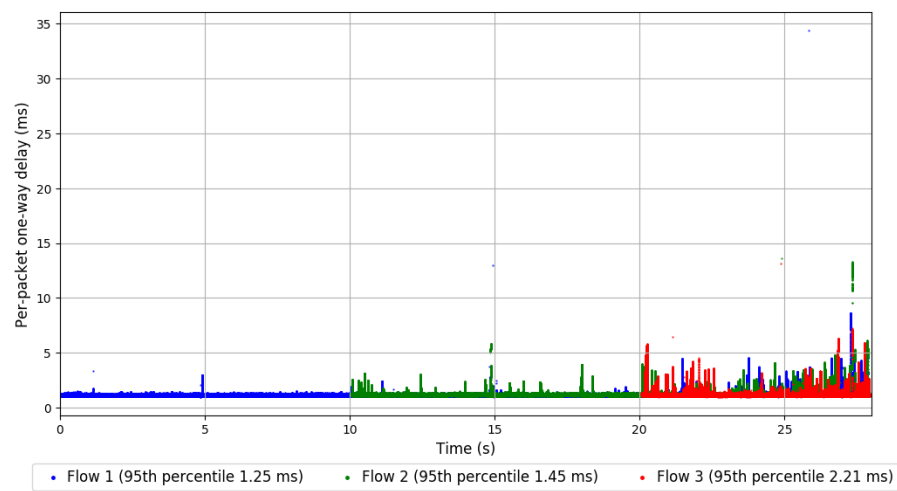
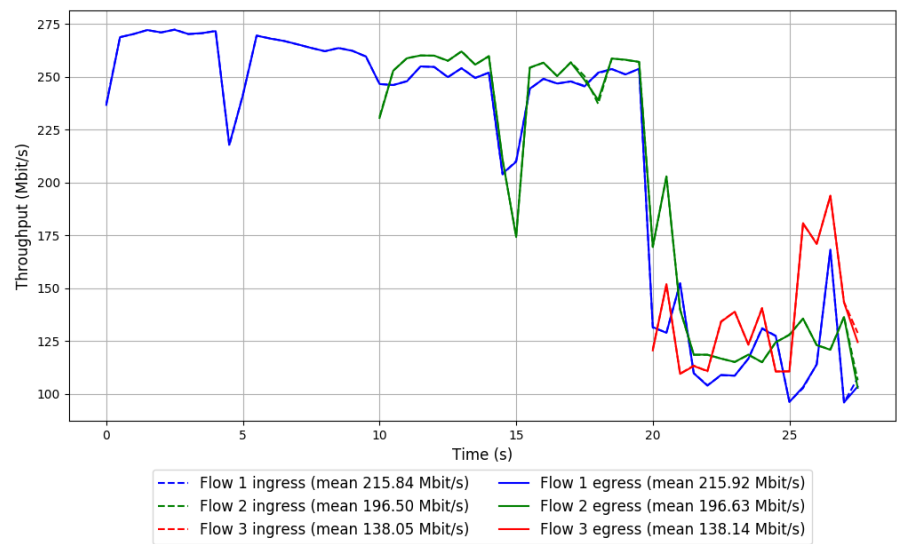


Run 7: Statistics of TaoVA-100x

Start at: 2017-11-30 20:02:13
End at: 2017-11-30 20:02:43
Local clock offset: 0.092 ms
Remote clock offset: -1.042 ms

Below is generated by plot.py at 2017-12-01 01:56:32
Datalink statistics
-- Total of 3 flows:
Average throughput: 381.10 Mbit/s
95th percentile per-packet one-way delay: 1.352 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 215.92 Mbit/s
95th percentile per-packet one-way delay: 1.254 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 196.63 Mbit/s
95th percentile per-packet one-way delay: 1.448 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 138.14 Mbit/s
95th percentile per-packet one-way delay: 2.206 ms
Loss rate: 0.22%

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

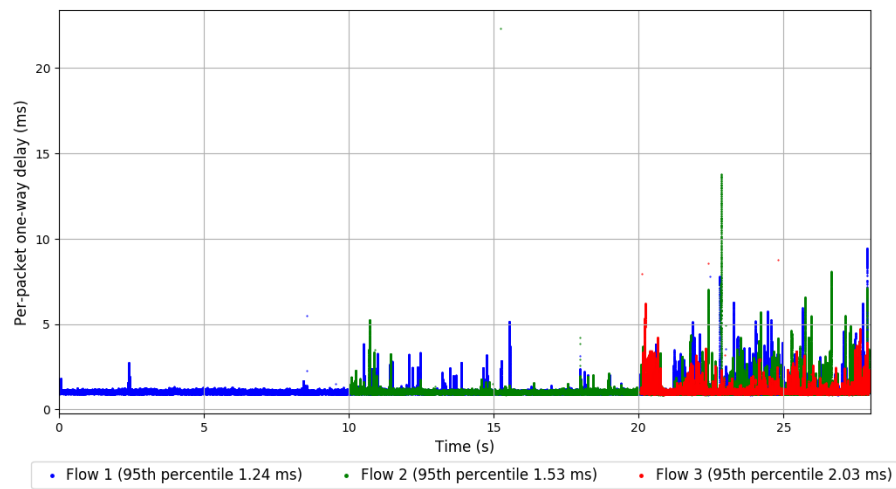
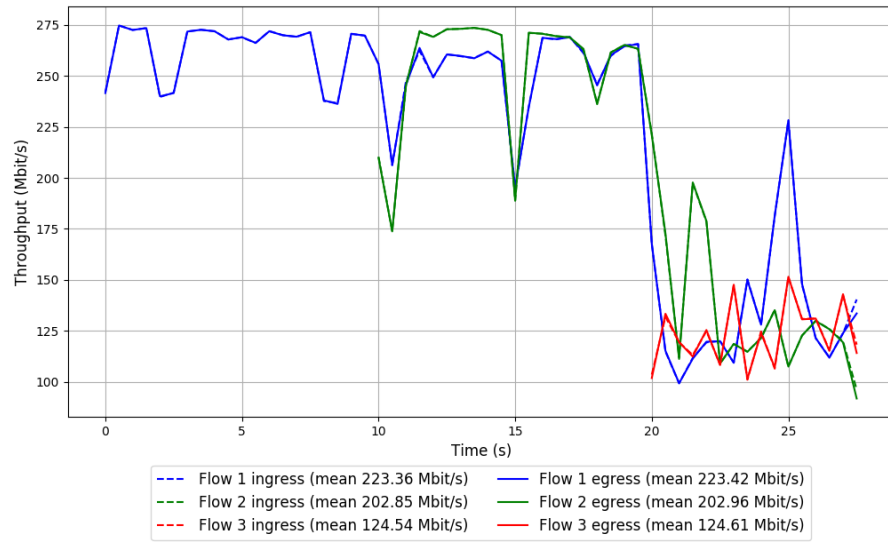


Run 8: Statistics of TaoVA-100x

Start at: 2017-11-30 20:22:45
End at: 2017-11-30 20:23:15
Local clock offset: 0.09 ms
Remote clock offset: -1.031 ms

Below is generated by plot.py at 2017-12-01 01:58:31
Datalink statistics
-- Total of 3 flows:
Average throughput: 388.72 Mbit/s
95th percentile per-packet one-way delay: 1.460 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 223.42 Mbit/s
95th percentile per-packet one-way delay: 1.235 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 202.96 Mbit/s
95th percentile per-packet one-way delay: 1.527 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 124.61 Mbit/s
95th percentile per-packet one-way delay: 2.032 ms
Loss rate: 0.21%

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

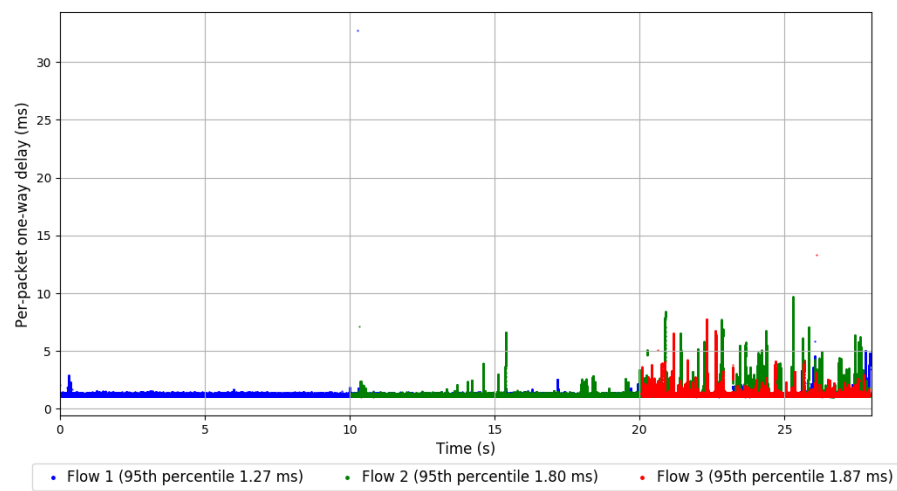
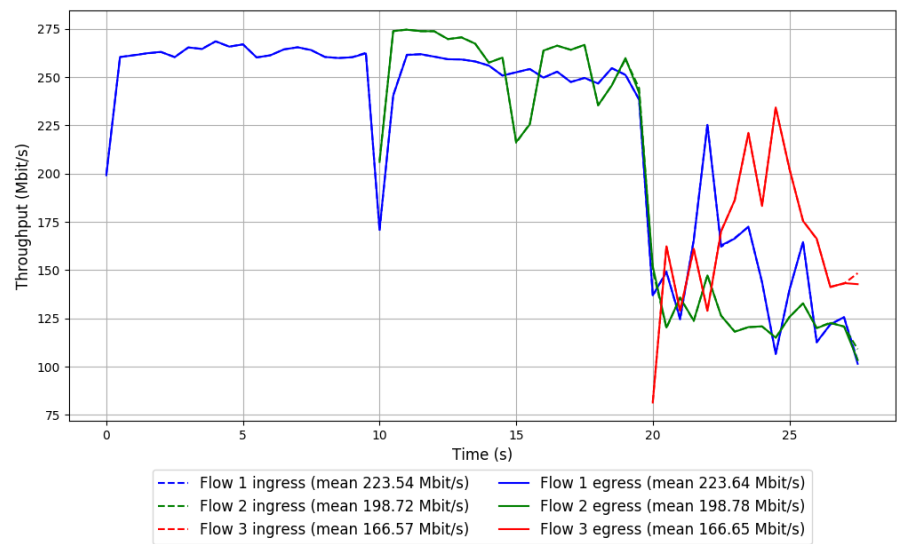


Run 9: Statistics of TaoVA-100x

Start at: 2017-11-30 20:43:18
End at: 2017-11-30 20:43:48
Local clock offset: 0.135 ms
Remote clock offset: -0.918 ms

Below is generated by plot.py at 2017-12-01 02:05:28
Datalink statistics
-- Total of 3 flows:
Average throughput: 398.15 Mbit/s
95th percentile per-packet one-way delay: 1.368 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 223.64 Mbit/s
95th percentile per-packet one-way delay: 1.273 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 198.78 Mbit/s
95th percentile per-packet one-way delay: 1.796 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 166.65 Mbit/s
95th percentile per-packet one-way delay: 1.871 ms
Loss rate: 0.22%

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

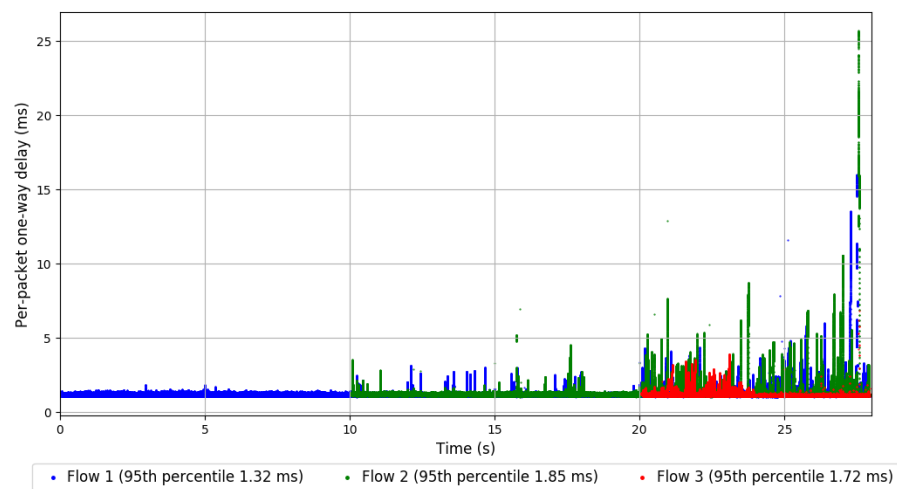
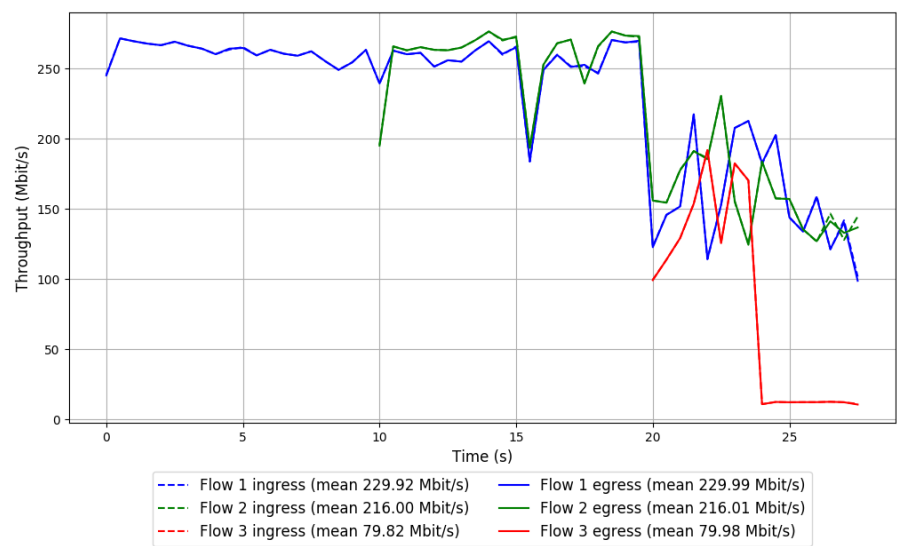


Run 10: Statistics of TaoVA-100x

Start at: 2017-11-30 21:03:38
End at: 2017-11-30 21:04:08
Local clock offset: 0.045 ms
Remote clock offset: -1.019 ms

Below is generated by plot.py at 2017-12-01 02:05:31
Datalink statistics
-- Total of 3 flows:
Average throughput: 391.06 Mbit/s
95th percentile per-packet one-way delay: 1.496 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 229.99 Mbit/s
95th percentile per-packet one-way delay: 1.317 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 216.01 Mbit/s
95th percentile per-packet one-way delay: 1.849 ms
Loss rate: 0.11%
-- Flow 3:
Average throughput: 79.98 Mbit/s
95th percentile per-packet one-way delay: 1.716 ms
Loss rate: 0.04%

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

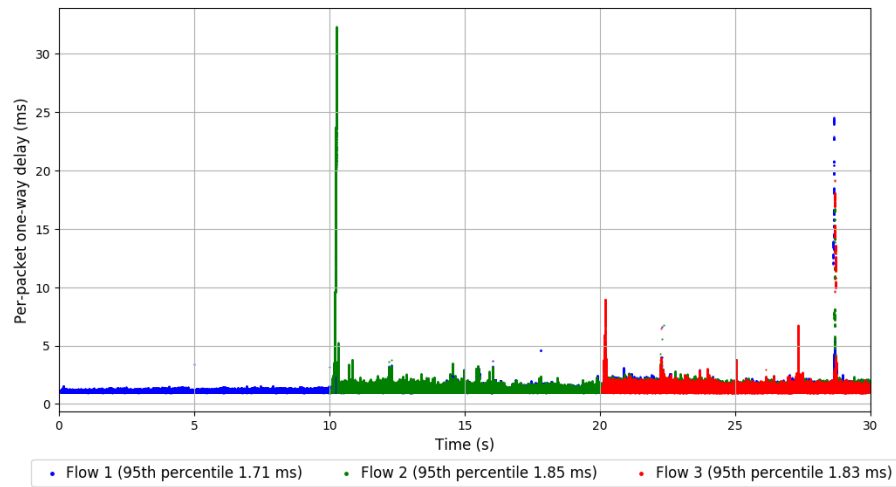
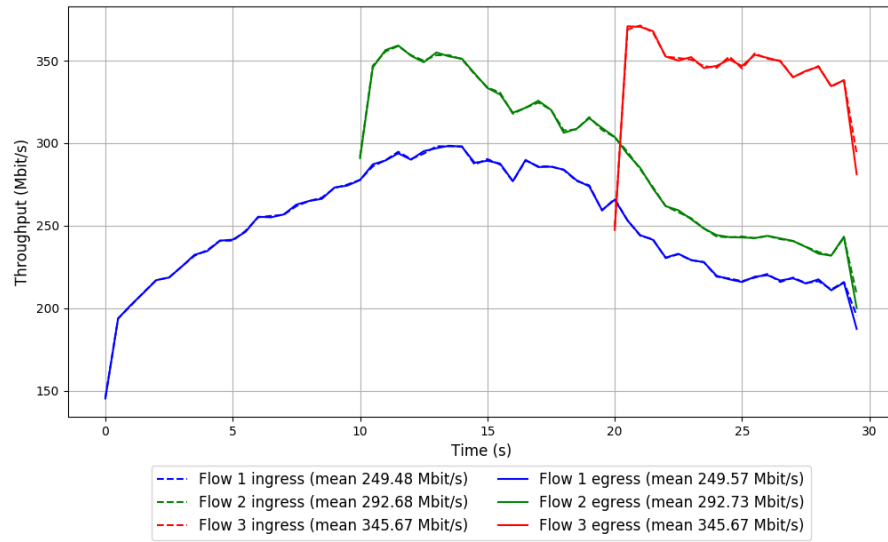


Run 1: Statistics of TCP Vegas

Start at: 2017-11-30 18:05:08
End at: 2017-11-30 18:05:38
Local clock offset: 0.293 ms
Remote clock offset: -2.192 ms

Below is generated by plot.py at 2017-12-01 02:05:31
Datalink statistics
-- Total of 3 flows:
Average throughput: 558.71 Mbit/s
95th percentile per-packet one-way delay: 1.792 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 249.57 Mbit/s
95th percentile per-packet one-way delay: 1.712 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 292.73 Mbit/s
95th percentile per-packet one-way delay: 1.853 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 345.67 Mbit/s
95th percentile per-packet one-way delay: 1.828 ms
Loss rate: 0.19%

Run 1: Report of TCP Vegas — Data Link

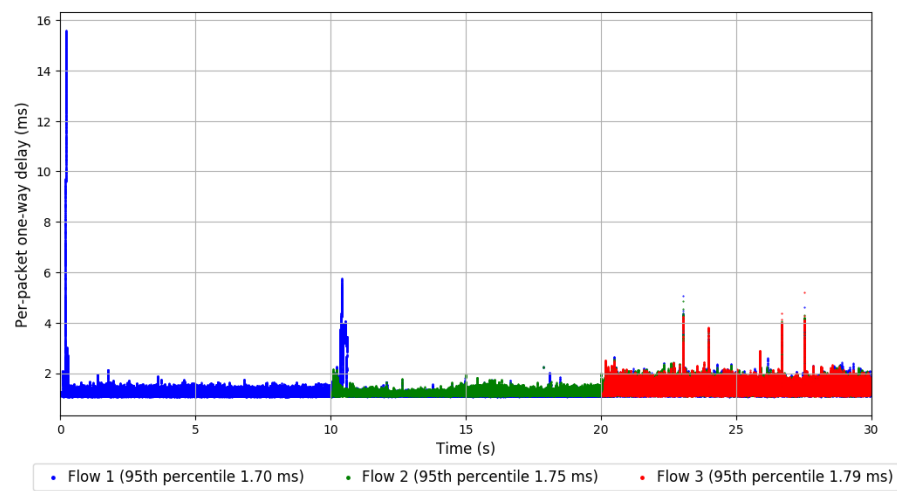
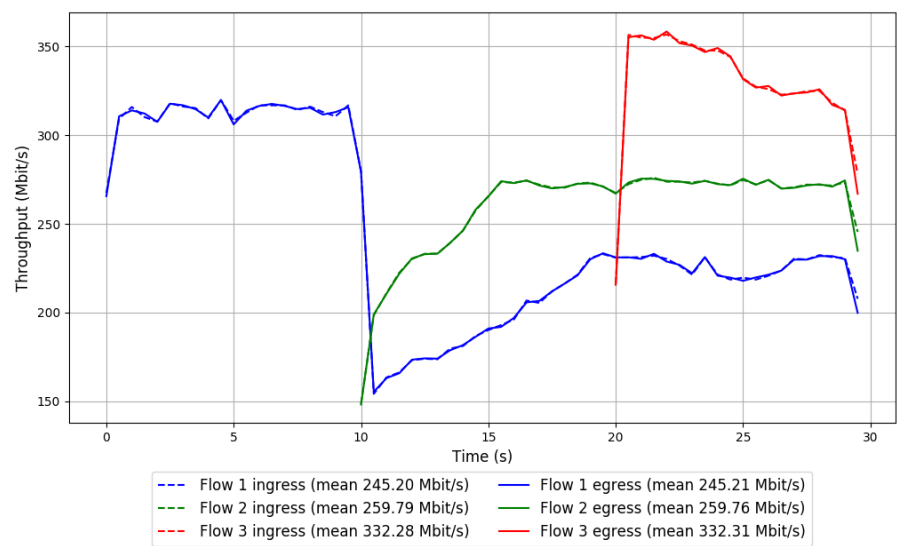


Run 2: Statistics of TCP Vegas

Start at: 2017-11-30 18:25:42
End at: 2017-11-30 18:26:12
Local clock offset: 0.299 ms
Remote clock offset: -1.917 ms

Below is generated by plot.py at 2017-12-01 02:05:31
Datalink statistics
-- Total of 3 flows:
Average throughput: 527.80 Mbit/s
95th percentile per-packet one-way delay: 1.746 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 245.21 Mbit/s
95th percentile per-packet one-way delay: 1.696 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 259.76 Mbit/s
95th percentile per-packet one-way delay: 1.751 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 332.31 Mbit/s
95th percentile per-packet one-way delay: 1.794 ms
Loss rate: 0.18%

Run 2: Report of TCP Vegas — Data Link

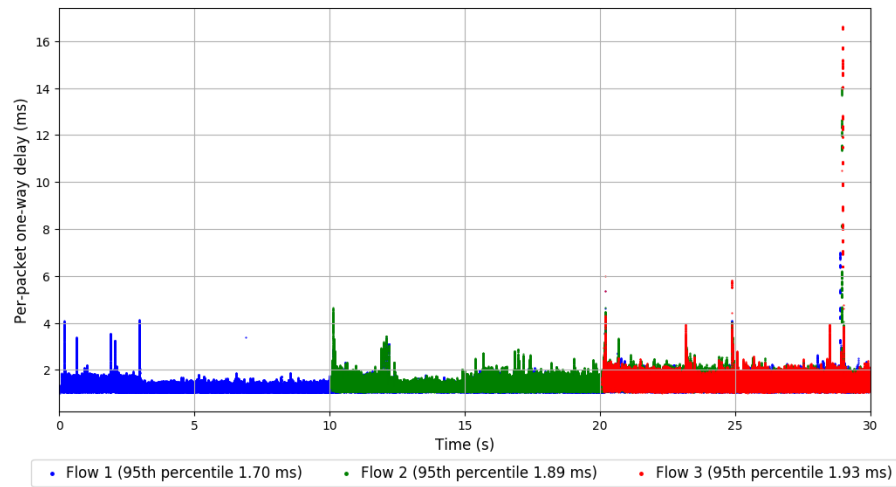
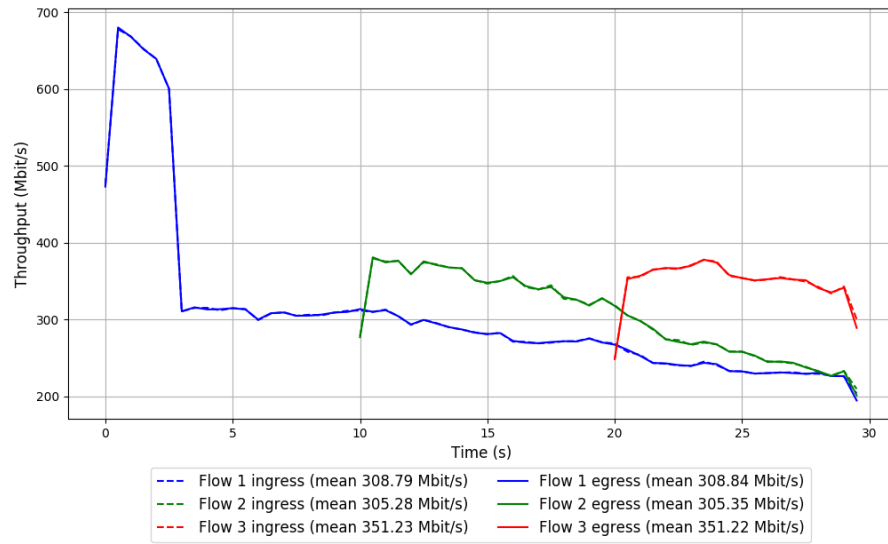


Run 3: Statistics of TCP Vegas

Start at: 2017-11-30 18:46:23
End at: 2017-11-30 18:46:53
Local clock offset: 0.291 ms
Remote clock offset: -1.726 ms

Below is generated by plot.py at 2017-12-01 02:05:31
Datalink statistics
-- Total of 3 flows:
Average throughput: 628.29 Mbit/s
95th percentile per-packet one-way delay: 1.833 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 308.84 Mbit/s
95th percentile per-packet one-way delay: 1.701 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 305.35 Mbit/s
95th percentile per-packet one-way delay: 1.886 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 351.22 Mbit/s
95th percentile per-packet one-way delay: 1.926 ms
Loss rate: 0.19%

Run 3: Report of TCP Vegas — Data Link

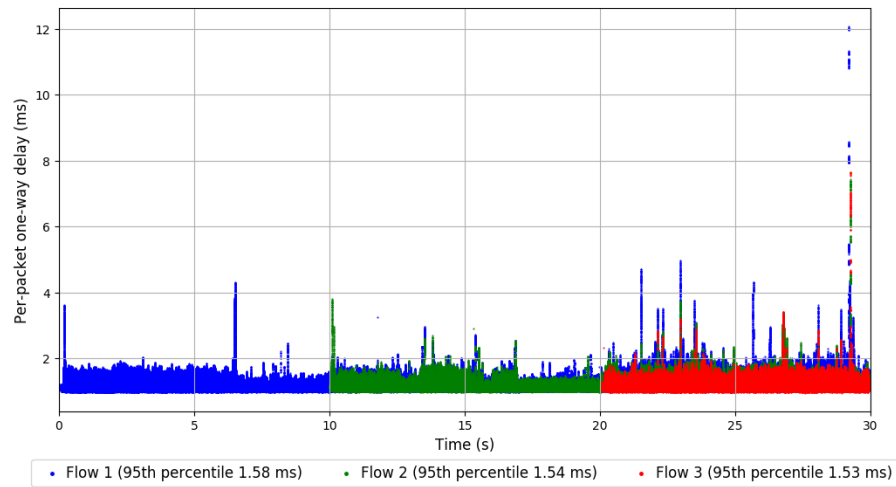
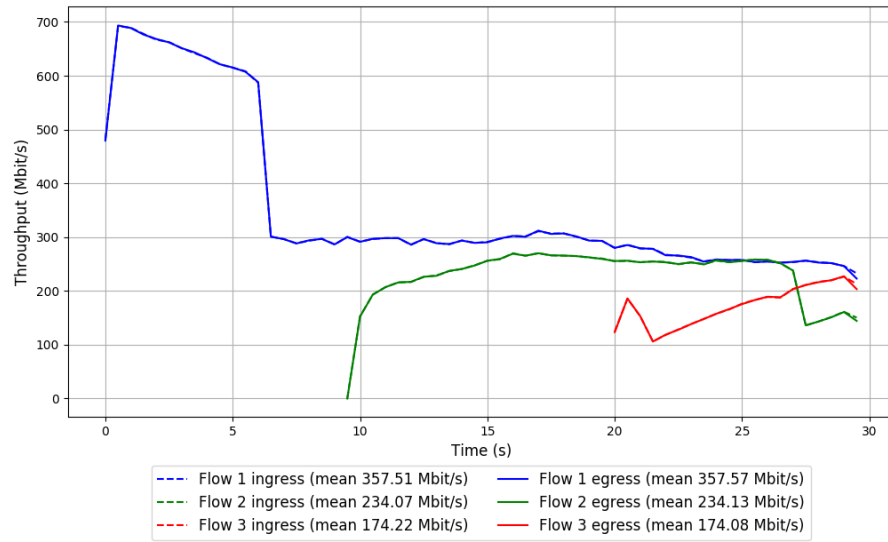


Run 4: Statistics of TCP Vegas

Start at: 2017-11-30 19:07:07
End at: 2017-11-30 19:07:37
Local clock offset: 0.235 ms
Remote clock offset: -1.317 ms

Below is generated by plot.py at 2017-12-01 02:05:31
Datalink statistics
-- Total of 3 flows:
Average throughput: 571.01 Mbit/s
95th percentile per-packet one-way delay: 1.566 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 357.57 Mbit/s
95th percentile per-packet one-way delay: 1.583 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 234.13 Mbit/s
95th percentile per-packet one-way delay: 1.537 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 174.08 Mbit/s
95th percentile per-packet one-way delay: 1.529 ms
Loss rate: 0.28%

Run 4: Report of TCP Vegas — Data Link

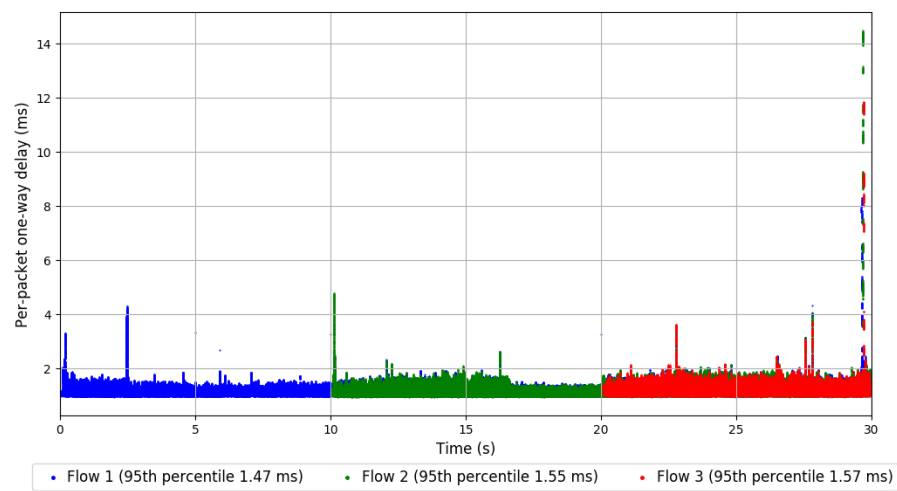
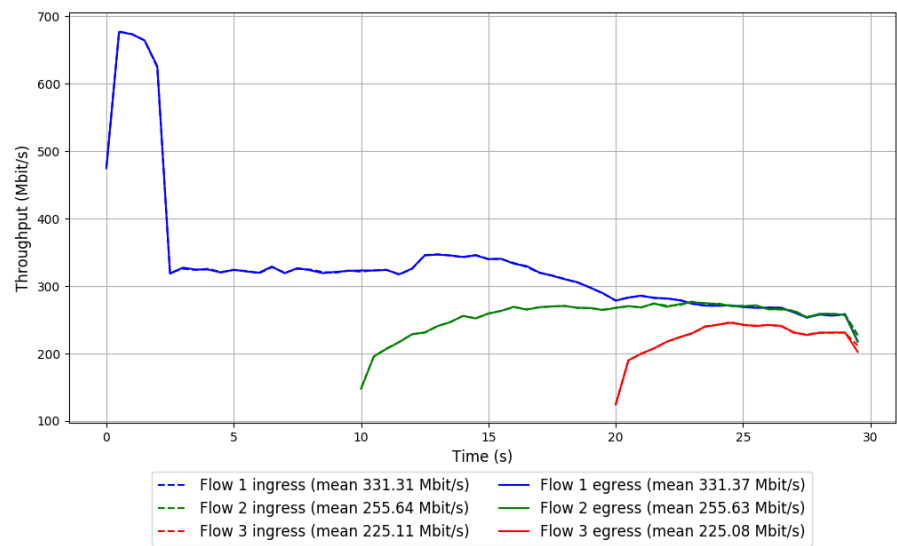


Run 5: Statistics of TCP Vegas

Start at: 2017-11-30 19:27:45
End at: 2017-11-30 19:28:15
Local clock offset: 0.087 ms
Remote clock offset: -1.188 ms

Below is generated by plot.py at 2017-12-01 02:05:31
Datalink statistics
-- Total of 3 flows:
Average throughput: 575.80 Mbit/s
95th percentile per-packet one-way delay: 1.514 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 331.37 Mbit/s
95th percentile per-packet one-way delay: 1.474 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 255.63 Mbit/s
95th percentile per-packet one-way delay: 1.550 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 225.08 Mbit/s
95th percentile per-packet one-way delay: 1.572 ms
Loss rate: 0.21%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2017-11-30 19:48:27

End at: 2017-11-30 19:48:57

Local clock offset: 0.021 ms

Remote clock offset: -0.84 ms

Below is generated by plot.py at 2017-12-01 02:06:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 527.43 Mbit/s

95th percentile per-packet one-way delay: 1.598 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 262.57 Mbit/s

95th percentile per-packet one-way delay: 1.496 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 225.66 Mbit/s

95th percentile per-packet one-way delay: 1.618 ms

Loss rate: 0.10%

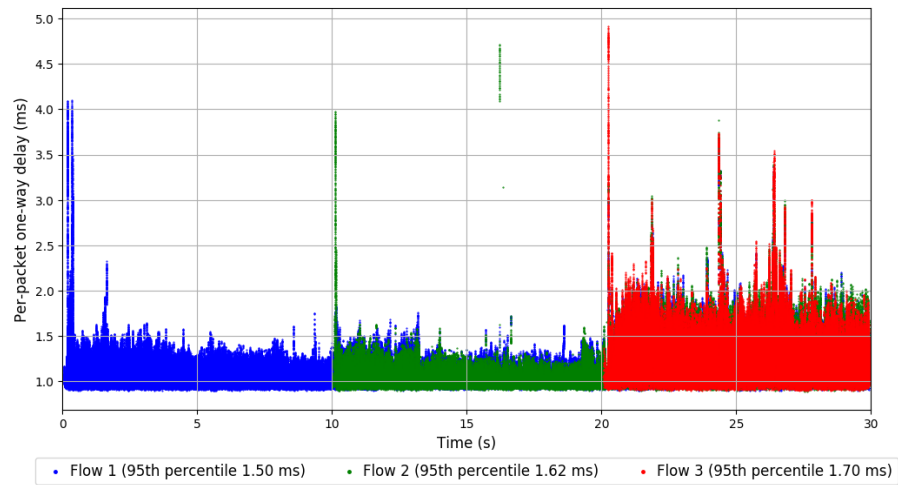
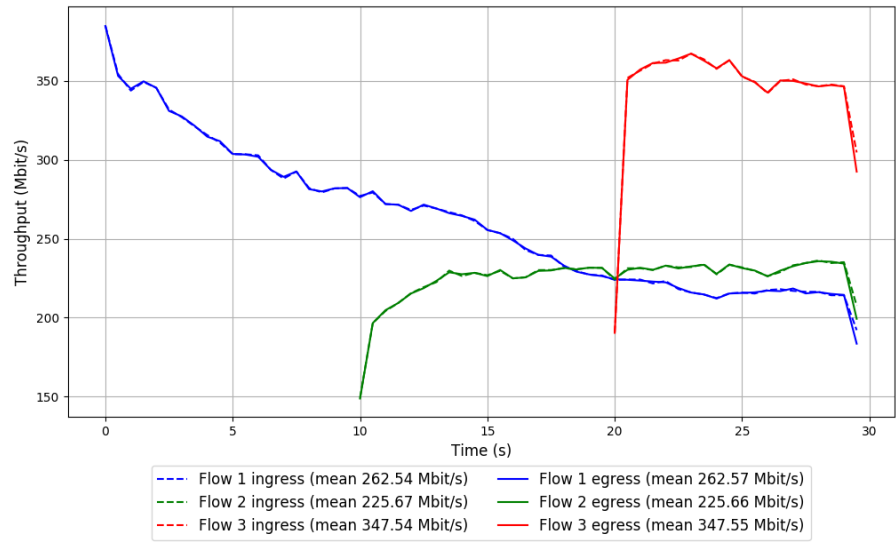
-- Flow 3:

Average throughput: 347.55 Mbit/s

95th percentile per-packet one-way delay: 1.701 ms

Loss rate: 0.20%

Run 6: Report of TCP Vegas — Data Link

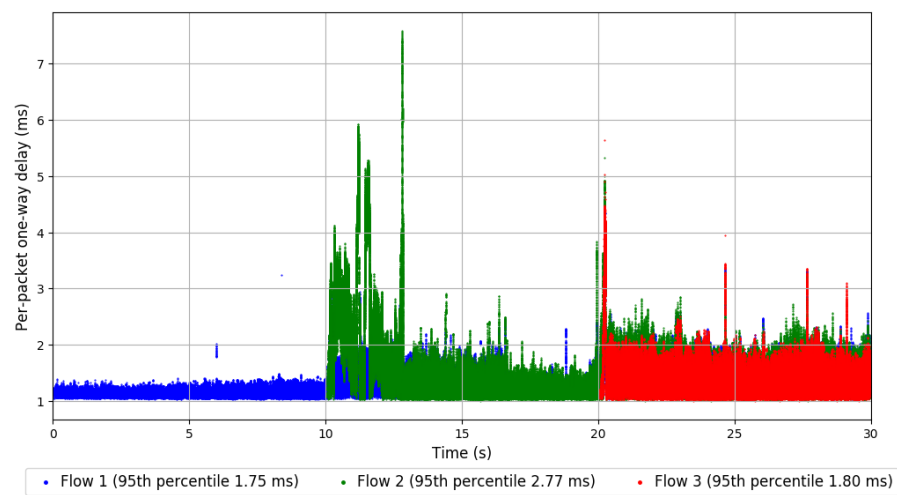
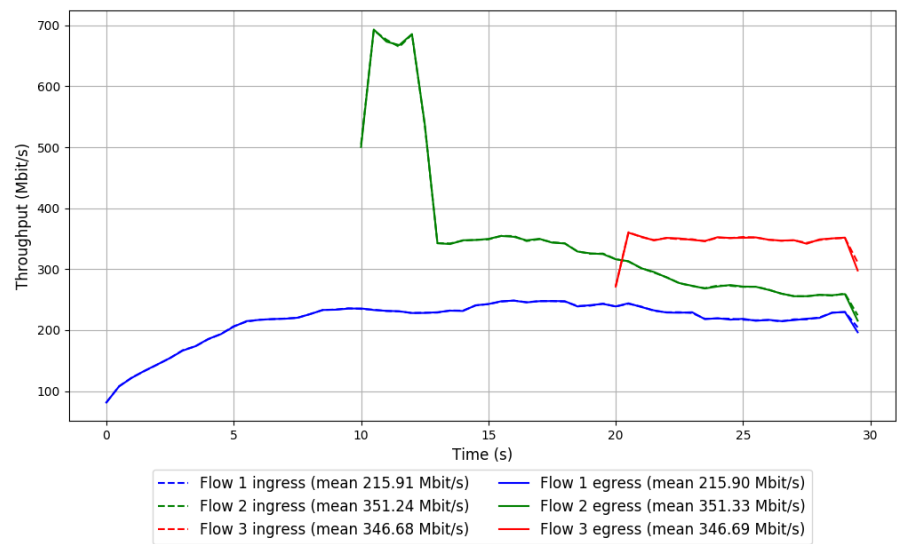


Run 7: Statistics of TCP Vegas

Start at: 2017-11-30 20:09:07
End at: 2017-11-30 20:09:37
Local clock offset: 0.111 ms
Remote clock offset: -1.033 ms

Below is generated by plot.py at 2017-12-01 02:11:34
Datalink statistics
-- Total of 3 flows:
Average throughput: 564.53 Mbit/s
95th percentile per-packet one-way delay: 2.199 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 215.90 Mbit/s
95th percentile per-packet one-way delay: 1.754 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 351.33 Mbit/s
95th percentile per-packet one-way delay: 2.768 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 346.69 Mbit/s
95th percentile per-packet one-way delay: 1.800 ms
Loss rate: 0.20%

Run 7: Report of TCP Vegas — Data Link

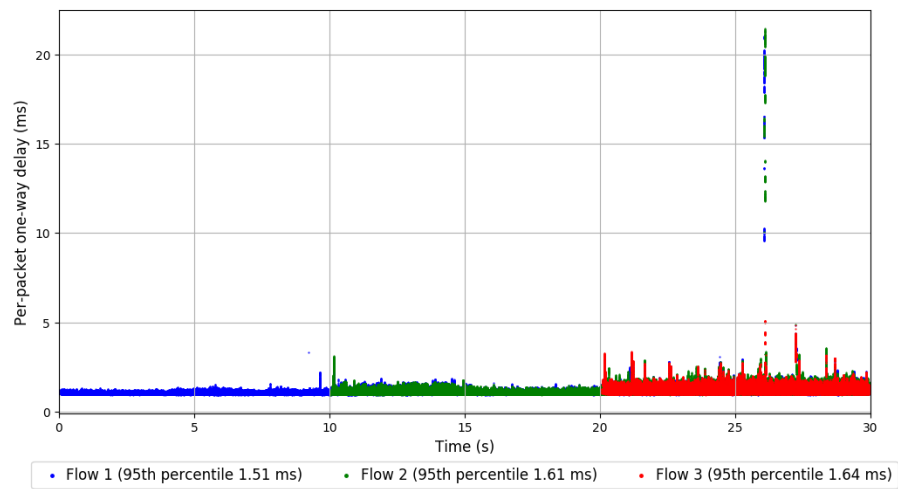
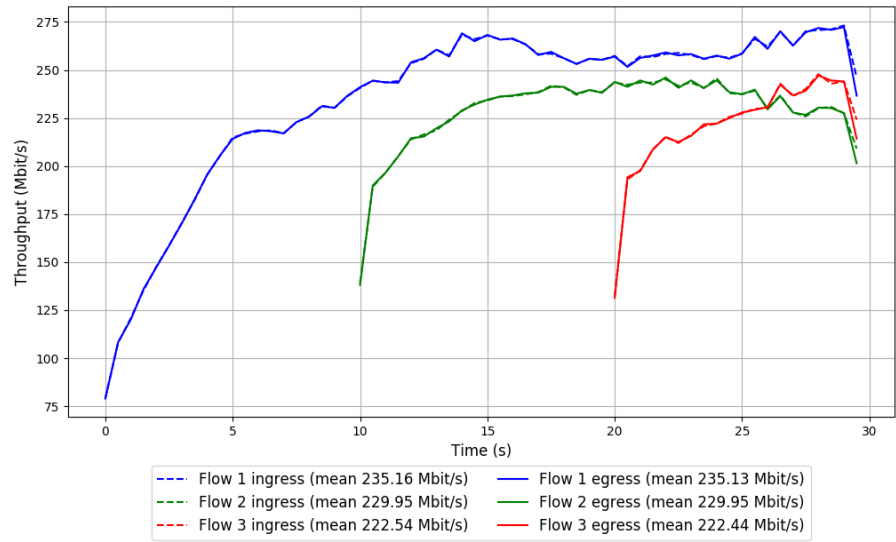


Run 8: Statistics of TCP Vegas

Start at: 2017-11-30 20:29:40
End at: 2017-11-30 20:30:10
Local clock offset: 0.195 ms
Remote clock offset: -1.067 ms

Below is generated by plot.py at 2017-12-01 02:11:34
Datalink statistics
-- Total of 3 flows:
Average throughput: 461.56 Mbit/s
95th percentile per-packet one-way delay: 1.572 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 235.13 Mbit/s
95th percentile per-packet one-way delay: 1.507 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 229.95 Mbit/s
95th percentile per-packet one-way delay: 1.610 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 222.44 Mbit/s
95th percentile per-packet one-way delay: 1.644 ms
Loss rate: 0.22%

Run 8: Report of TCP Vegas — Data Link

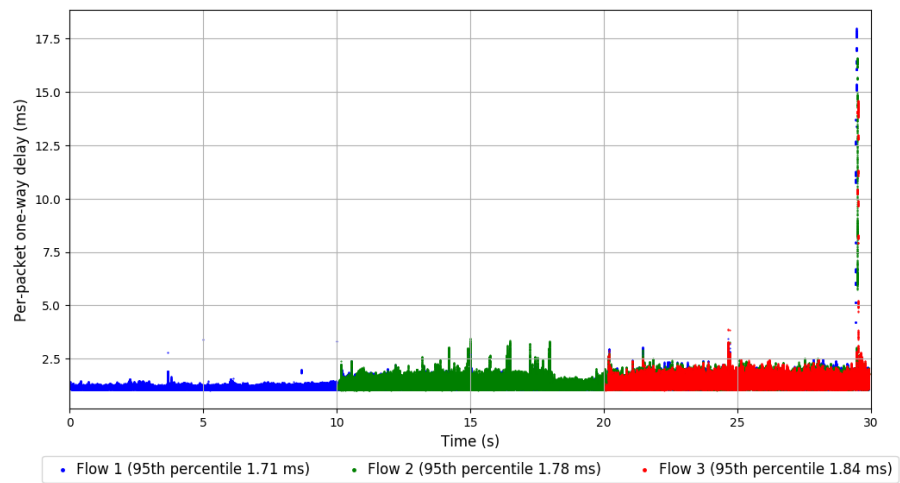
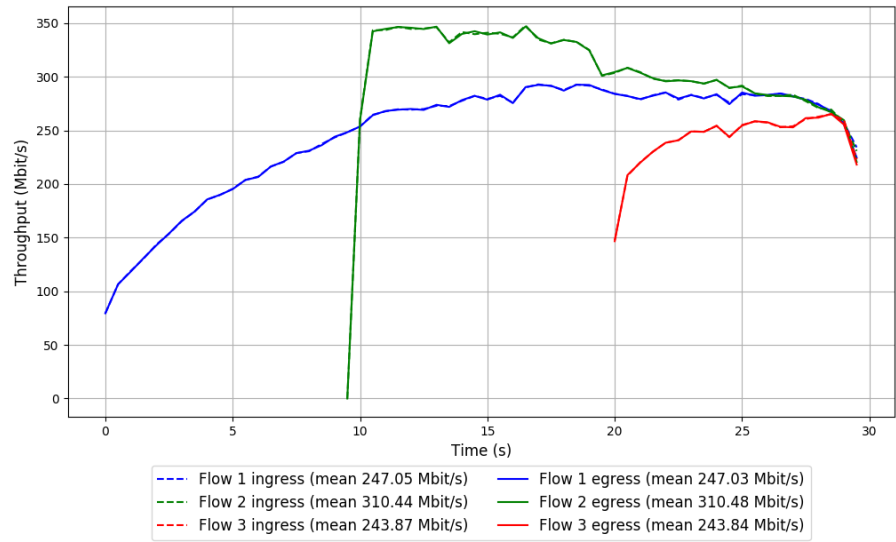


Run 9: Statistics of TCP Vegas

Start at: 2017-11-30 20:50:10
End at: 2017-11-30 20:50:40
Local clock offset: 0.106 ms
Remote clock offset: -0.719 ms

Below is generated by plot.py at 2017-12-01 02:11:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 534.28 Mbit/s
95th percentile per-packet one-way delay: 1.762 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 247.03 Mbit/s
95th percentile per-packet one-way delay: 1.707 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 310.48 Mbit/s
95th percentile per-packet one-way delay: 1.776 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 243.84 Mbit/s
95th percentile per-packet one-way delay: 1.843 ms
Loss rate: 0.20%

Run 9: Report of TCP Vegas — Data Link

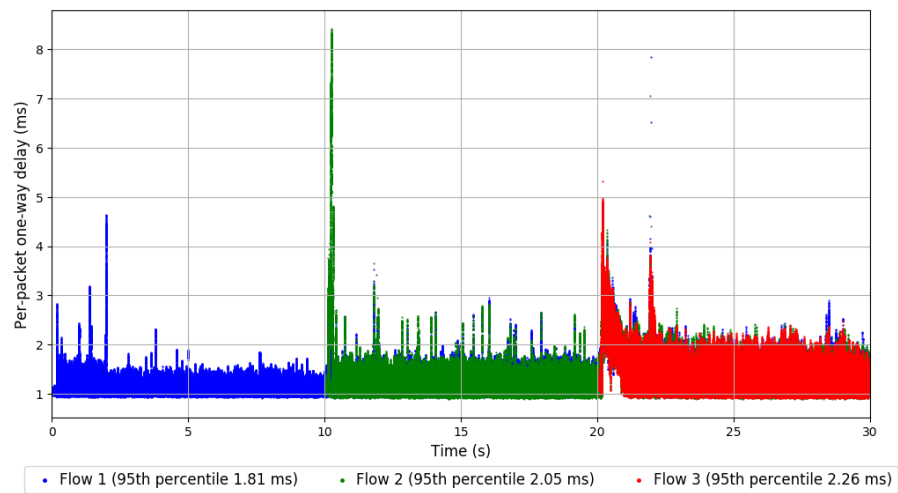
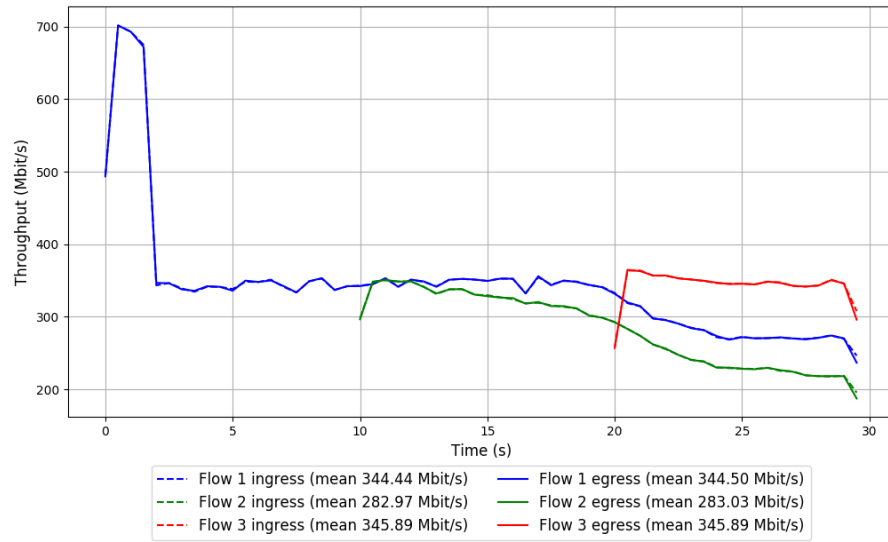


Run 10: Statistics of TCP Vegas

Start at: 2017-11-30 21:10:33
End at: 2017-11-30 21:11:03
Local clock offset: -0.065 ms
Remote clock offset: -0.928 ms

Below is generated by plot.py at 2017-12-01 02:13:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 647.29 Mbit/s
95th percentile per-packet one-way delay: 1.978 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 344.50 Mbit/s
95th percentile per-packet one-way delay: 1.815 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 283.03 Mbit/s
95th percentile per-packet one-way delay: 2.047 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 345.89 Mbit/s
95th percentile per-packet one-way delay: 2.261 ms
Loss rate: 0.19%

Run 10: Report of TCP Vegas — Data Link

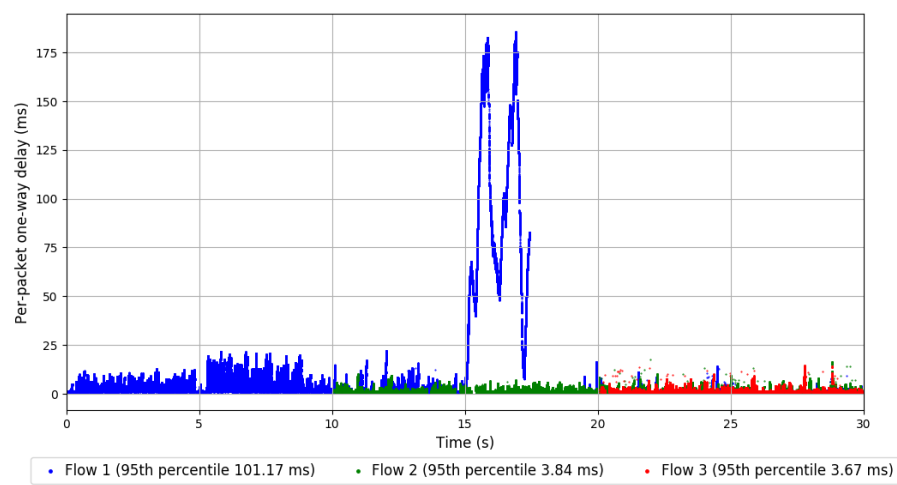
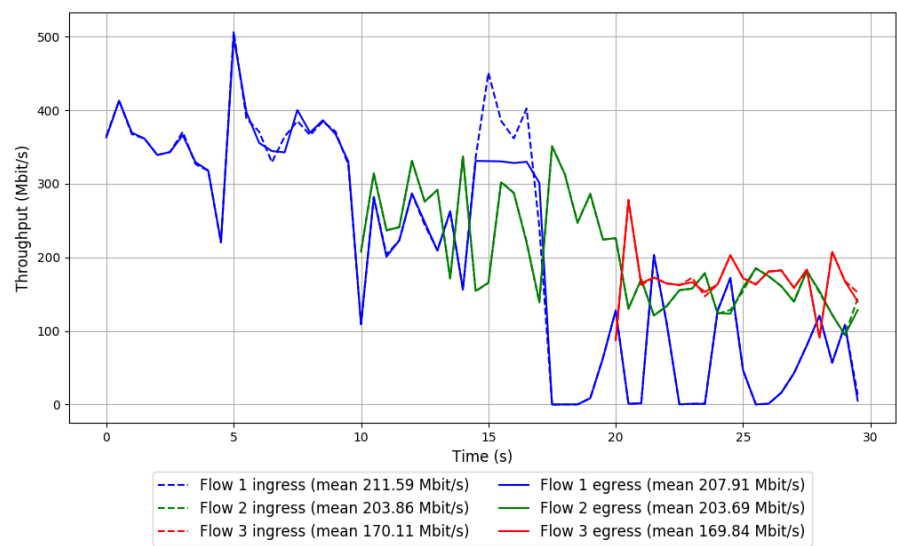


Run 1: Statistics of Verus

Start at: 2017-11-30 18:03:35
End at: 2017-11-30 18:04:05
Local clock offset: 0.287 ms
Remote clock offset: -2.309 ms

Below is generated by plot.py at 2017-12-01 02:13:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 399.51 Mbit/s
95th percentile per-packet one-way delay: 57.719 ms
Loss rate: 1.09%
-- Flow 1:
Average throughput: 207.91 Mbit/s
95th percentile per-packet one-way delay: 101.168 ms
Loss rate: 1.85%
-- Flow 2:
Average throughput: 203.69 Mbit/s
95th percentile per-packet one-way delay: 3.836 ms
Loss rate: 0.19%
-- Flow 3:
Average throughput: 169.84 Mbit/s
95th percentile per-packet one-way delay: 3.667 ms
Loss rate: 0.38%

Run 1: Report of Verus — Data Link

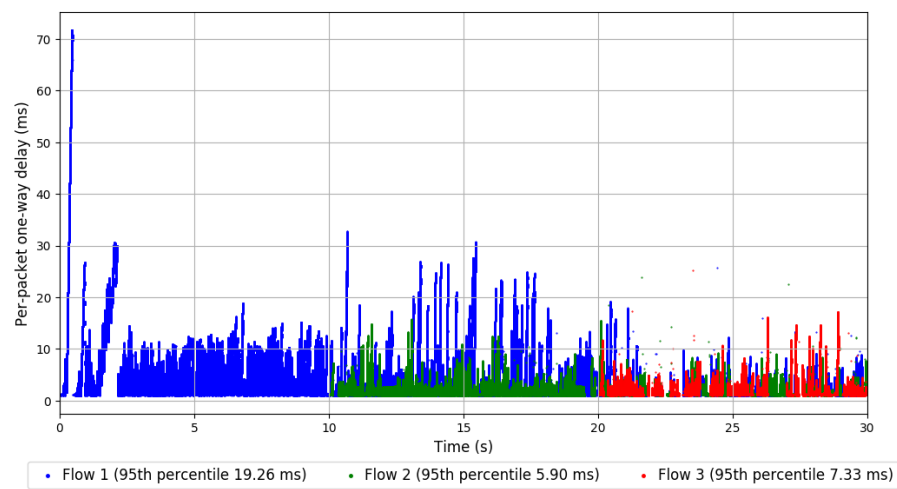
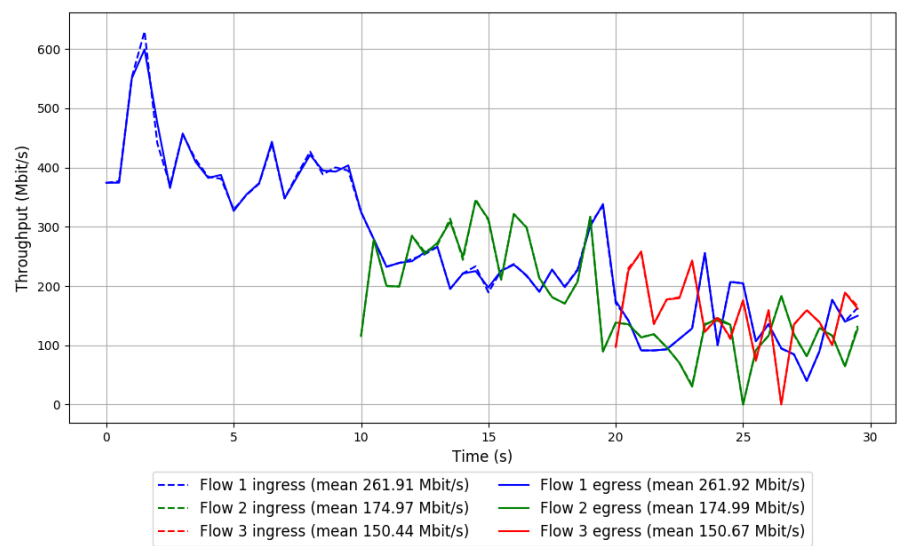


Run 2: Statistics of Verus

Start at: 2017-11-30 18:24:08
End at: 2017-11-30 18:24:38
Local clock offset: 0.266 ms
Remote clock offset: -1.953 ms

Below is generated by plot.py at 2017-12-01 02:13:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 428.27 Mbit/s
95th percentile per-packet one-way delay: 14.631 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 261.92 Mbit/s
95th percentile per-packet one-way delay: 19.256 ms
Loss rate: 0.09%
-- Flow 2:
Average throughput: 174.99 Mbit/s
95th percentile per-packet one-way delay: 5.902 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 150.67 Mbit/s
95th percentile per-packet one-way delay: 7.328 ms
Loss rate: 0.14%

Run 2: Report of Verus — Data Link

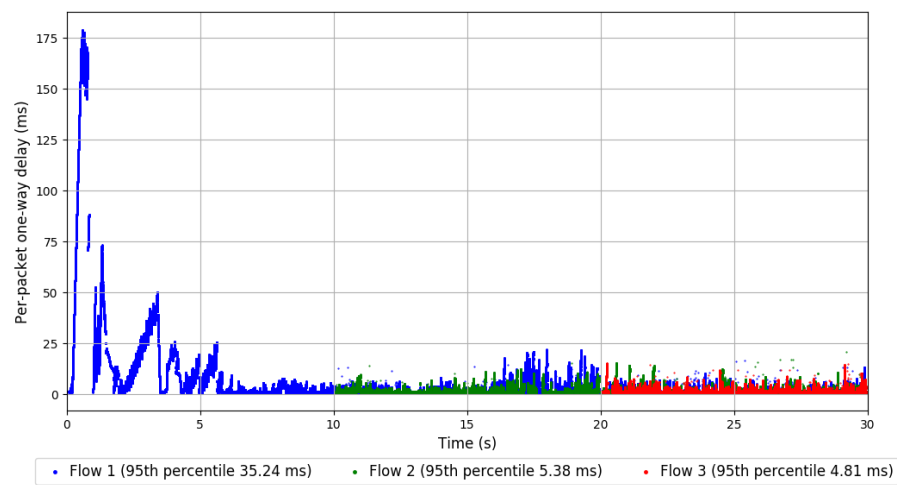
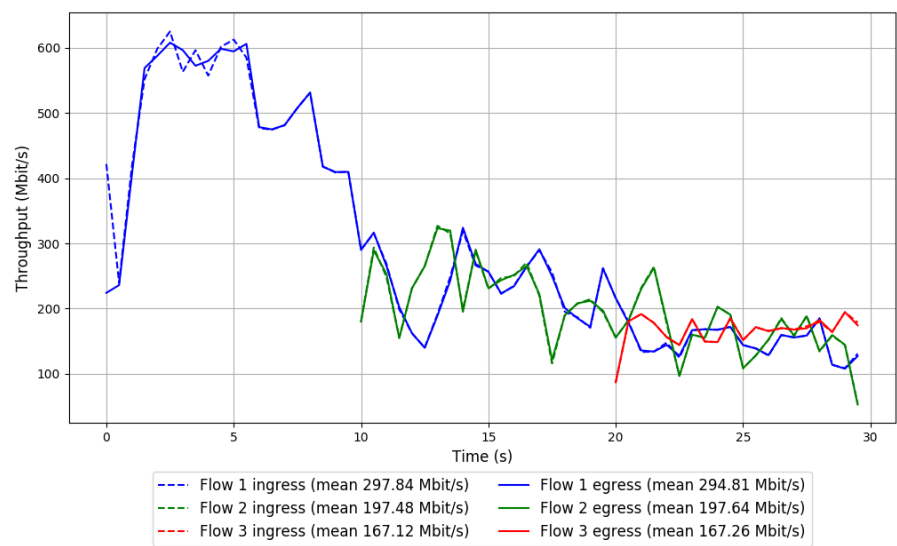


Run 3: Statistics of Verus

Start at: 2017-11-30 18:44:46
End at: 2017-11-30 18:45:16
Local clock offset: 0.189 ms
Remote clock offset: -1.698 ms

Below is generated by plot.py at 2017-12-01 02:13:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 481.57 Mbit/s
95th percentile per-packet one-way delay: 23.620 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 294.81 Mbit/s
95th percentile per-packet one-way delay: 35.242 ms
Loss rate: 1.09%
-- Flow 2:
Average throughput: 197.64 Mbit/s
95th percentile per-packet one-way delay: 5.379 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 167.26 Mbit/s
95th percentile per-packet one-way delay: 4.808 ms
Loss rate: 0.12%

Run 3: Report of Verus — Data Link

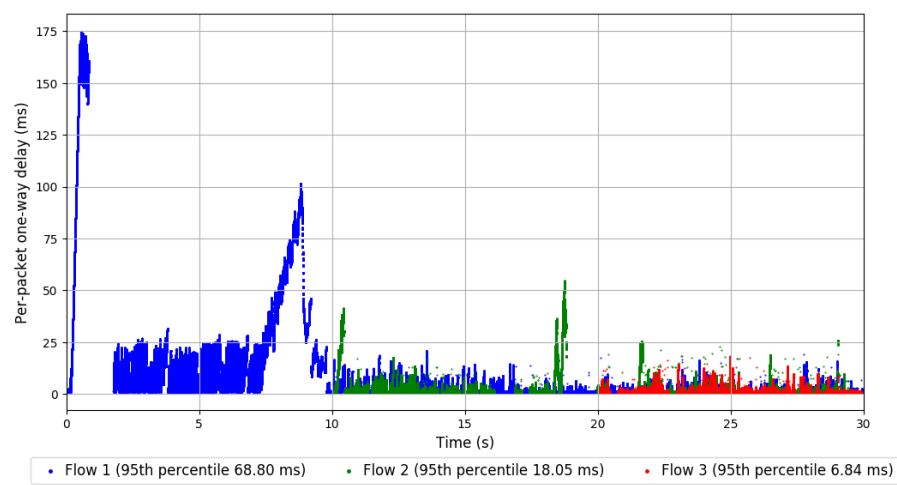
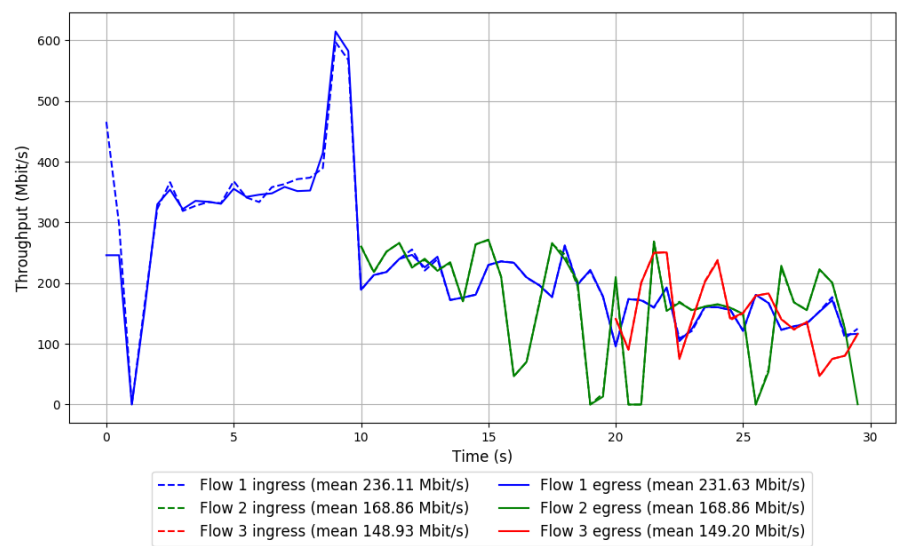


Run 4: Statistics of Verus

Start at: 2017-11-30 19:05:35
End at: 2017-11-30 19:06:05
Local clock offset: 0.209 ms
Remote clock offset: -1.353 ms

Below is generated by plot.py at 2017-12-01 02:13:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 390.91 Mbit/s
95th percentile per-packet one-way delay: 43.863 ms
Loss rate: 1.18%
-- Flow 1:
Average throughput: 231.63 Mbit/s
95th percentile per-packet one-way delay: 68.803 ms
Loss rate: 1.97%
-- Flow 2:
Average throughput: 168.86 Mbit/s
95th percentile per-packet one-way delay: 18.052 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 149.20 Mbit/s
95th percentile per-packet one-way delay: 6.836 ms
Loss rate: 0.00%

Run 4: Report of Verus — Data Link

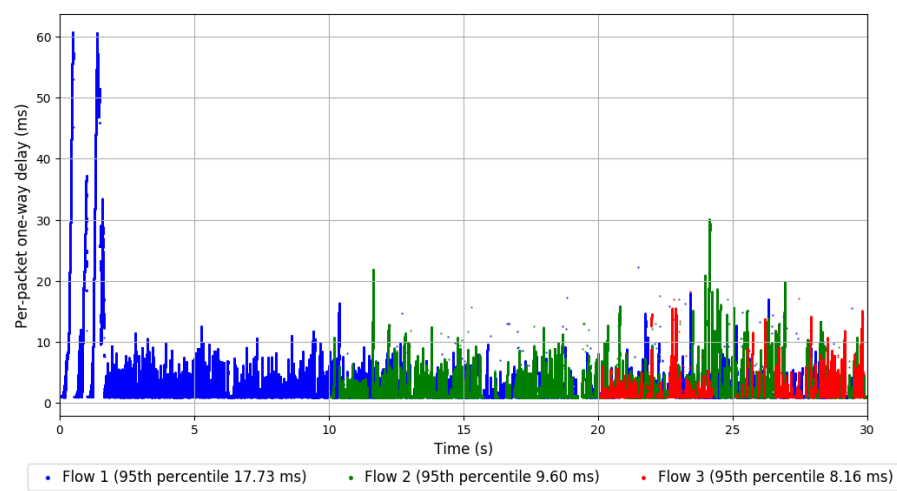
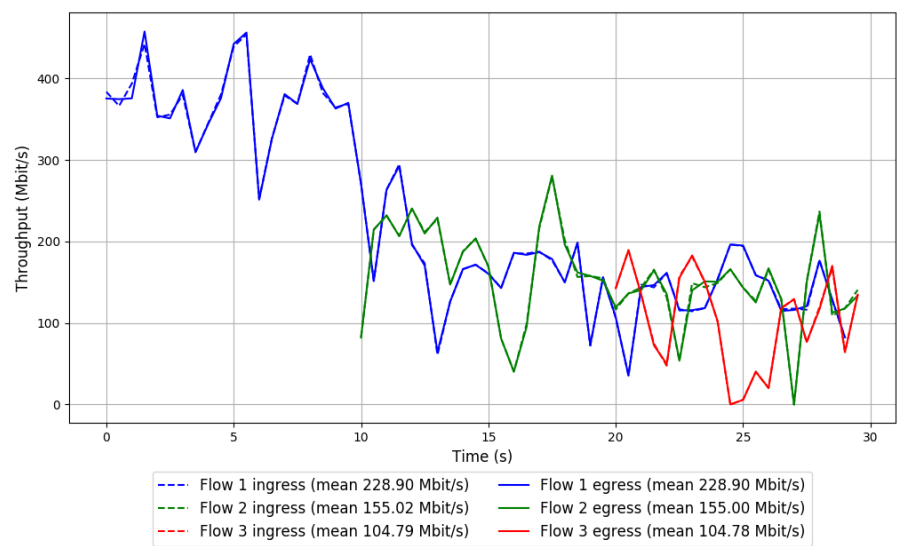


Run 5: Statistics of Verus

Start at: 2017-11-30 19:26:15
End at: 2017-11-30 19:26:45
Local clock offset: 0.089 ms
Remote clock offset: -1.196 ms

Below is generated by plot.py at 2017-12-01 02:14:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 363.00 Mbit/s
95th percentile per-packet one-way delay: 11.391 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 228.90 Mbit/s
95th percentile per-packet one-way delay: 17.732 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 155.00 Mbit/s
95th percentile per-packet one-way delay: 9.599 ms
Loss rate: 0.12%
-- Flow 3:
Average throughput: 104.78 Mbit/s
95th percentile per-packet one-way delay: 8.162 ms
Loss rate: 0.00%

Run 5: Report of Verus — Data Link

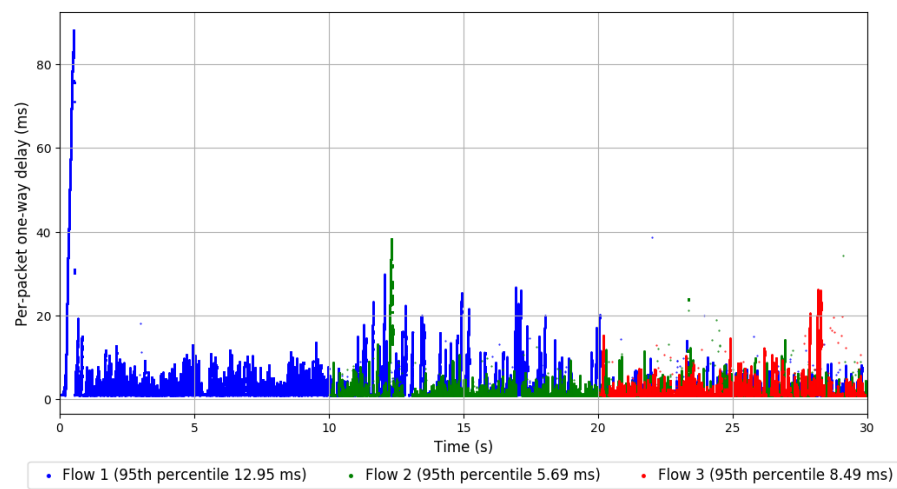
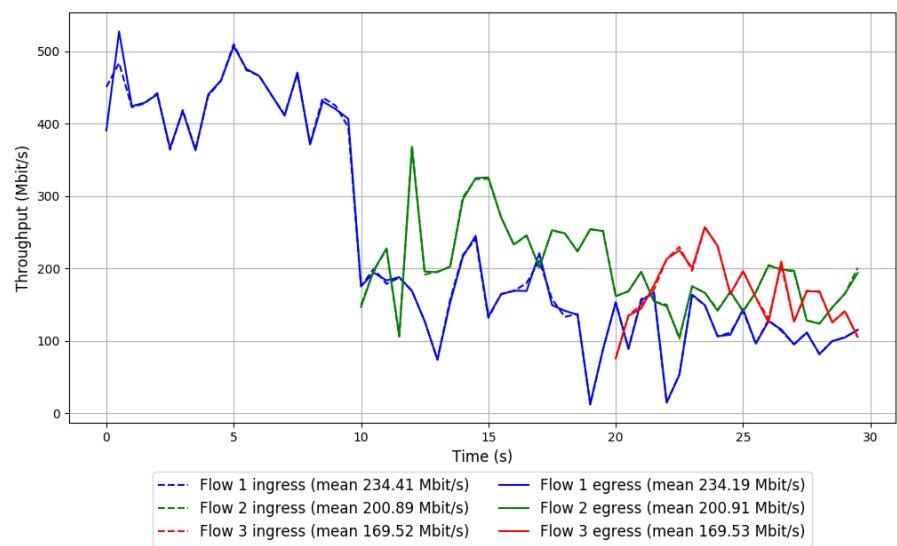


Run 6: Statistics of Verus

Start at: 2017-11-30 19:46:52
End at: 2017-11-30 19:47:22
Local clock offset: 0.132 ms
Remote clock offset: -0.808 ms

Below is generated by plot.py at 2017-12-01 02:16:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 423.48 Mbit/s
95th percentile per-packet one-way delay: 10.530 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 234.19 Mbit/s
95th percentile per-packet one-way delay: 12.949 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 200.91 Mbit/s
95th percentile per-packet one-way delay: 5.687 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 169.53 Mbit/s
95th percentile per-packet one-way delay: 8.495 ms
Loss rate: 0.00%

Run 6: Report of Verus — Data Link

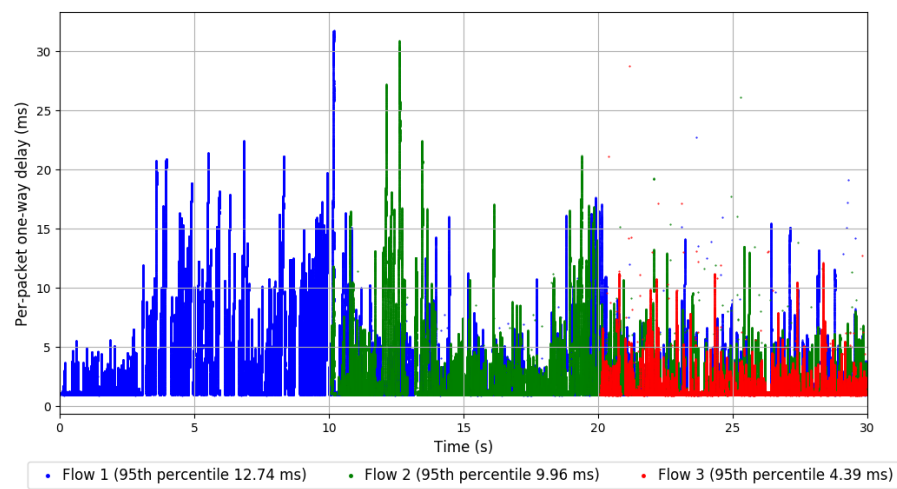
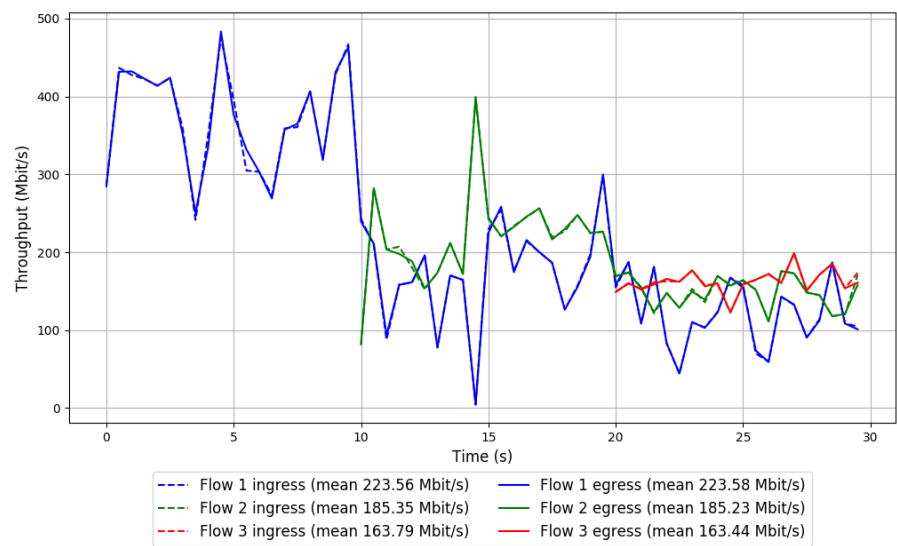


Run 7: Statistics of Verus

Start at: 2017-11-30 20:07:34
End at: 2017-11-30 20:08:04
Local clock offset: 0.106 ms
Remote clock offset: -0.925 ms

Below is generated by plot.py at 2017-12-01 02:17:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 401.00 Mbit/s
95th percentile per-packet one-way delay: 11.397 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 223.58 Mbit/s
95th percentile per-packet one-way delay: 12.738 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 185.23 Mbit/s
95th percentile per-packet one-way delay: 9.956 ms
Loss rate: 0.17%
-- Flow 3:
Average throughput: 163.44 Mbit/s
95th percentile per-packet one-way delay: 4.395 ms
Loss rate: 0.41%

Run 7: Report of Verus — Data Link

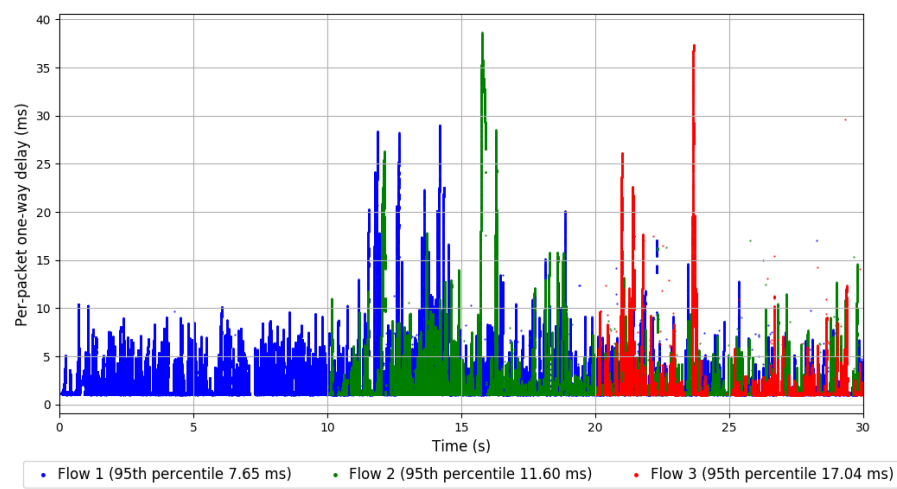
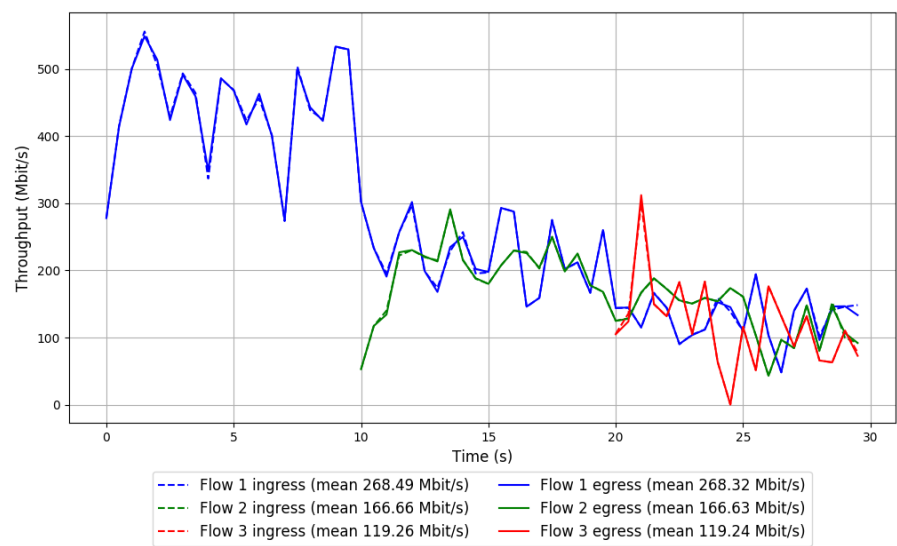


Run 8: Statistics of Verus

Start at: 2017-11-30 20:28:07
End at: 2017-11-30 20:28:37
Local clock offset: 0.164 ms
Remote clock offset: -1.097 ms

Below is generated by plot.py at 2017-12-01 02:17:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 417.83 Mbit/s
95th percentile per-packet one-way delay: 8.960 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 268.32 Mbit/s
95th percentile per-packet one-way delay: 7.651 ms
Loss rate: 0.09%
-- Flow 2:
Average throughput: 166.63 Mbit/s
95th percentile per-packet one-way delay: 11.595 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 119.24 Mbit/s
95th percentile per-packet one-way delay: 17.035 ms
Loss rate: 0.21%

Run 8: Report of Verus — Data Link

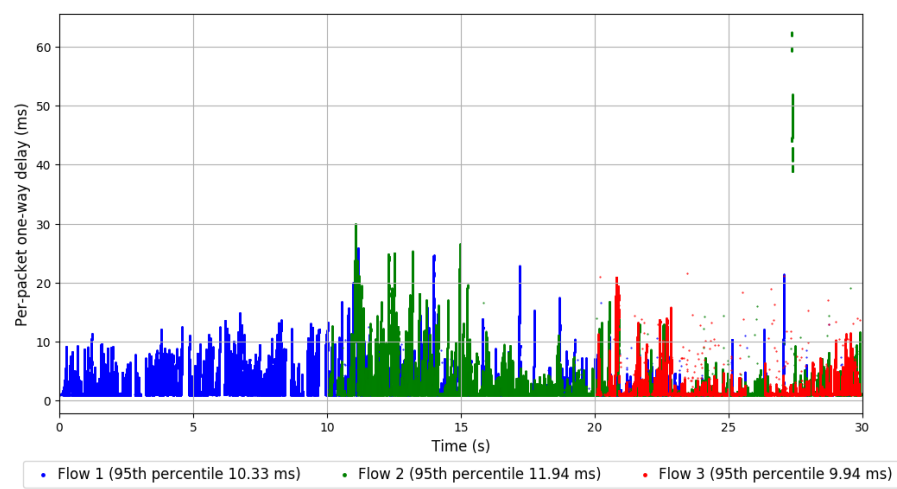
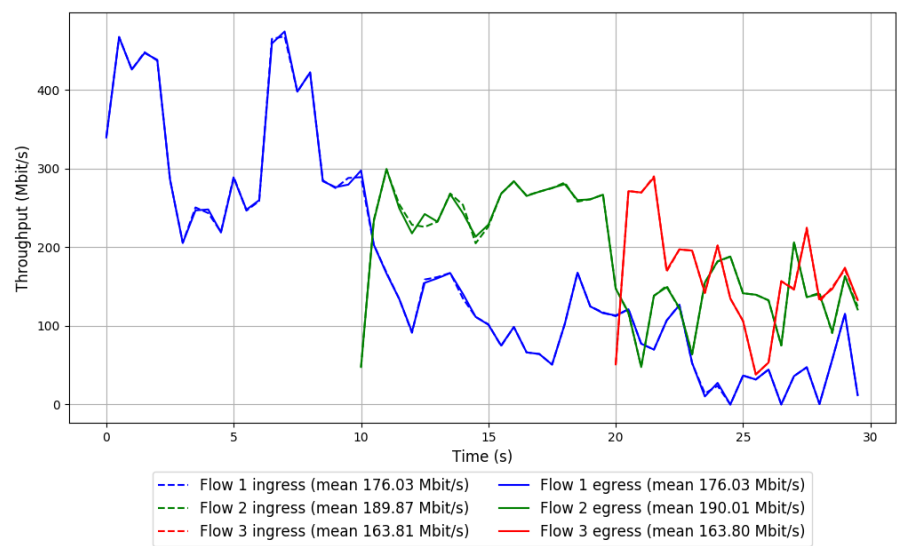


Run 9: Statistics of Verus

Start at: 2017-11-30 20:48:40
End at: 2017-11-30 20:49:10
Local clock offset: 0.011 ms
Remote clock offset: -0.792 ms

Below is generated by plot.py at 2017-12-01 02:17:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 354.14 Mbit/s
95th percentile per-packet one-way delay: 10.719 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 176.03 Mbit/s
95th percentile per-packet one-way delay: 10.333 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 190.01 Mbit/s
95th percentile per-packet one-way delay: 11.937 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 163.80 Mbit/s
95th percentile per-packet one-way delay: 9.938 ms
Loss rate: 0.00%

Run 9: Report of Verus — Data Link

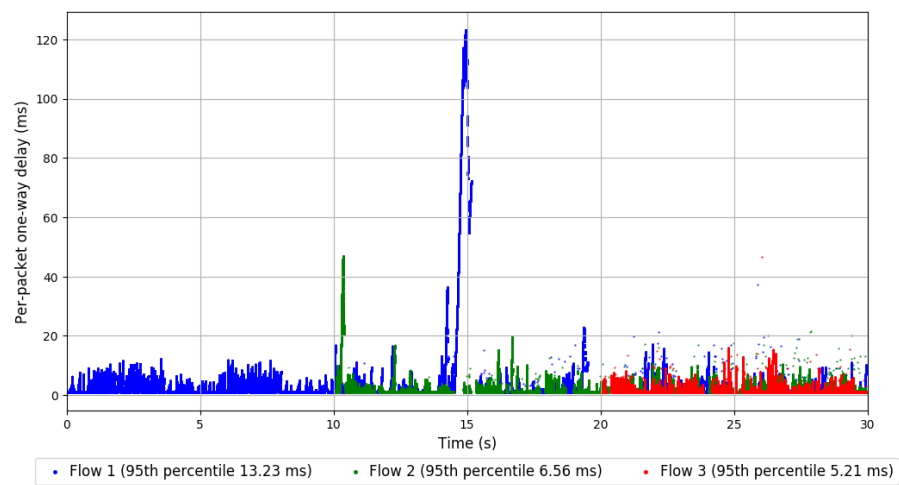
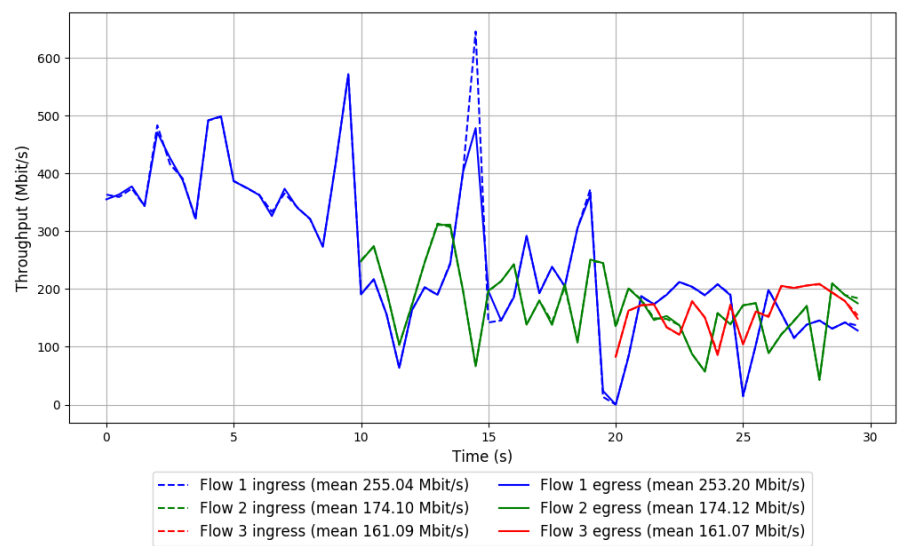


Run 10: Statistics of Verus

Start at: 2017-11-30 21:08:59
End at: 2017-11-30 21:09:29
Local clock offset: -0.056 ms
Remote clock offset: -0.948 ms

Below is generated by plot.py at 2017-12-01 02:17:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 422.38 Mbit/s
95th percentile per-packet one-way delay: 9.657 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 253.20 Mbit/s
95th percentile per-packet one-way delay: 13.235 ms
Loss rate: 0.80%
-- Flow 2:
Average throughput: 174.12 Mbit/s
95th percentile per-packet one-way delay: 6.560 ms
Loss rate: 0.13%
-- Flow 3:
Average throughput: 161.07 Mbit/s
95th percentile per-packet one-way delay: 5.206 ms
Loss rate: 0.21%

Run 10: Report of Verus — Data Link

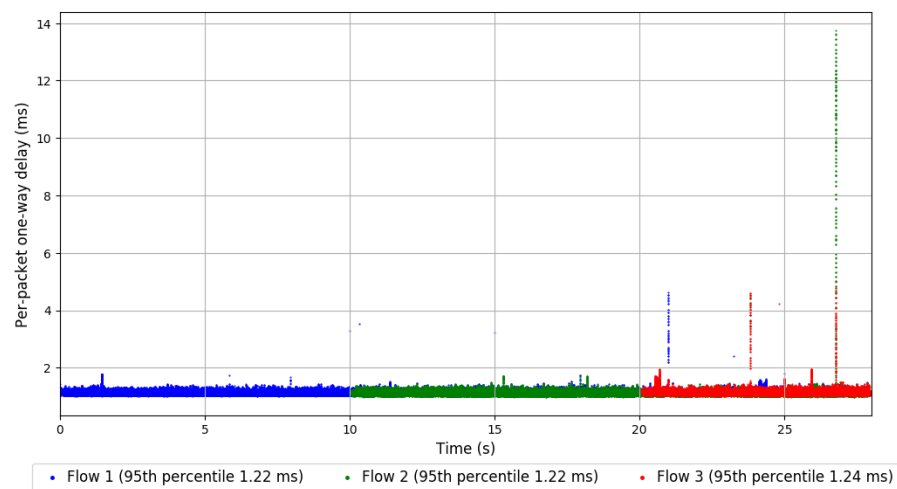
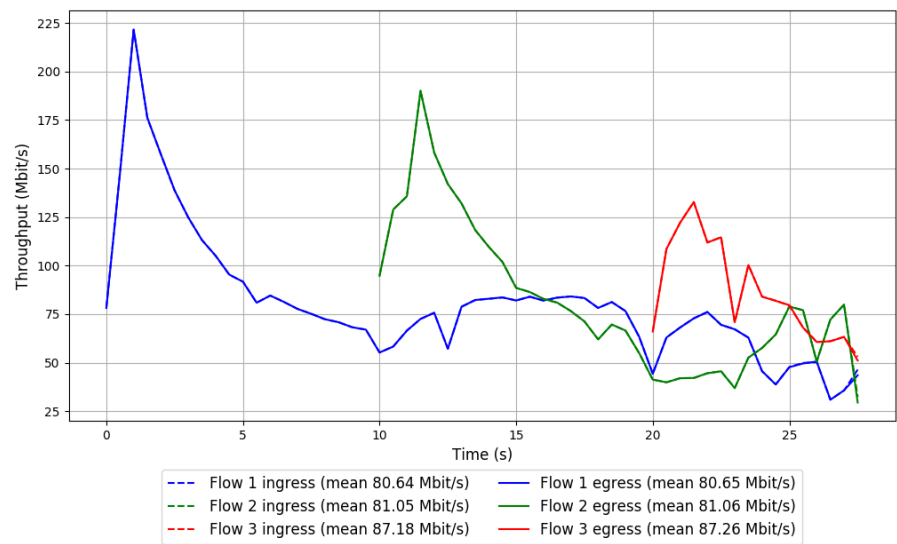


Run 1: Statistics of Copa

Start at: 2017-11-30 18:02:13
End at: 2017-11-30 18:02:43
Local clock offset: 0.275 ms
Remote clock offset: -2.316 ms

Below is generated by plot.py at 2017-12-01 02:17:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 157.31 Mbit/s
95th percentile per-packet one-way delay: 1.223 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 80.65 Mbit/s
95th percentile per-packet one-way delay: 1.223 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 81.06 Mbit/s
95th percentile per-packet one-way delay: 1.215 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 87.26 Mbit/s
95th percentile per-packet one-way delay: 1.239 ms
Loss rate: 0.15%

Run 1: Report of Copa — Data Link

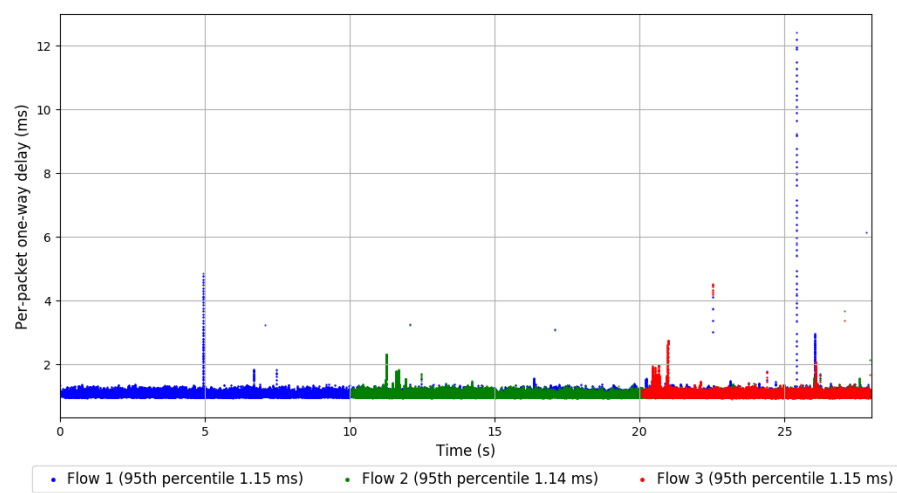
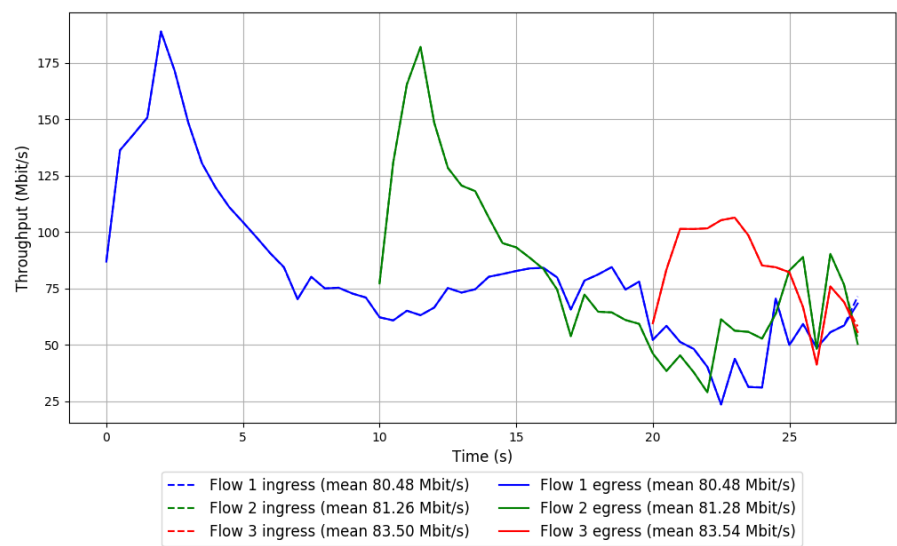


Run 2: Statistics of Copa

Start at: 2017-11-30 18:22:46
End at: 2017-11-30 18:23:16
Local clock offset: 0.177 ms
Remote clock offset: -2.018 ms

Below is generated by plot.py at 2017-12-01 02:17:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 156.21 Mbit/s
95th percentile per-packet one-way delay: 1.146 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 80.48 Mbit/s
95th percentile per-packet one-way delay: 1.148 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 81.28 Mbit/s
95th percentile per-packet one-way delay: 1.140 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 83.54 Mbit/s
95th percentile per-packet one-way delay: 1.154 ms
Loss rate: 0.20%

Run 2: Report of Copa — Data Link

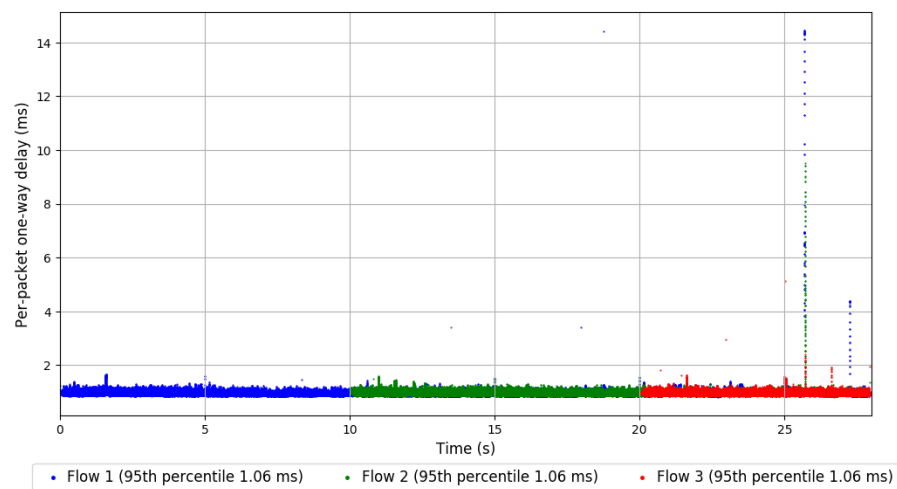
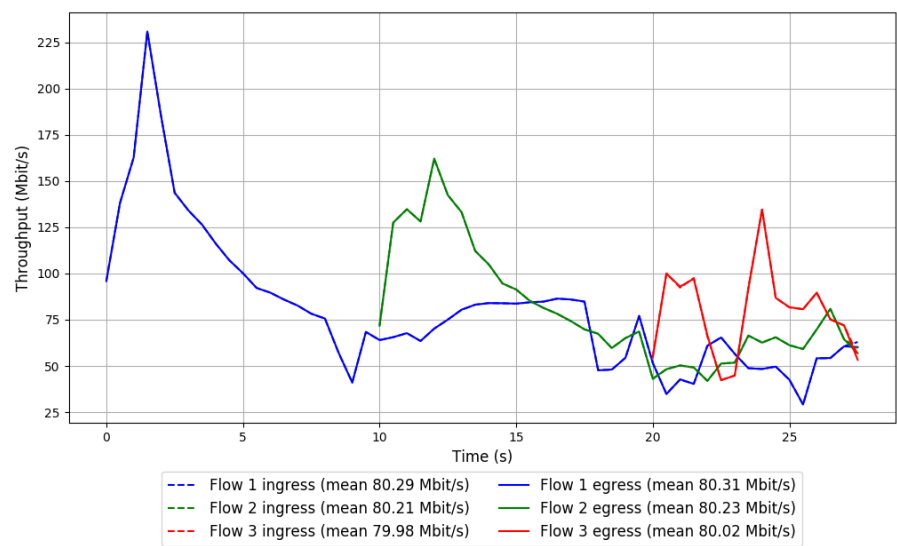


Run 3: Statistics of Copa

Start at: 2017-11-30 18:43:24
End at: 2017-11-30 18:43:54
Local clock offset: 0.172 ms
Remote clock offset: -1.678 ms

Below is generated by plot.py at 2017-12-01 02:18:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 154.40 Mbit/s
95th percentile per-packet one-way delay: 1.061 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 80.31 Mbit/s
95th percentile per-packet one-way delay: 1.058 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 80.23 Mbit/s
95th percentile per-packet one-way delay: 1.065 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 80.02 Mbit/s
95th percentile per-packet one-way delay: 1.061 ms
Loss rate: 0.22%

Run 3: Report of Copa — Data Link

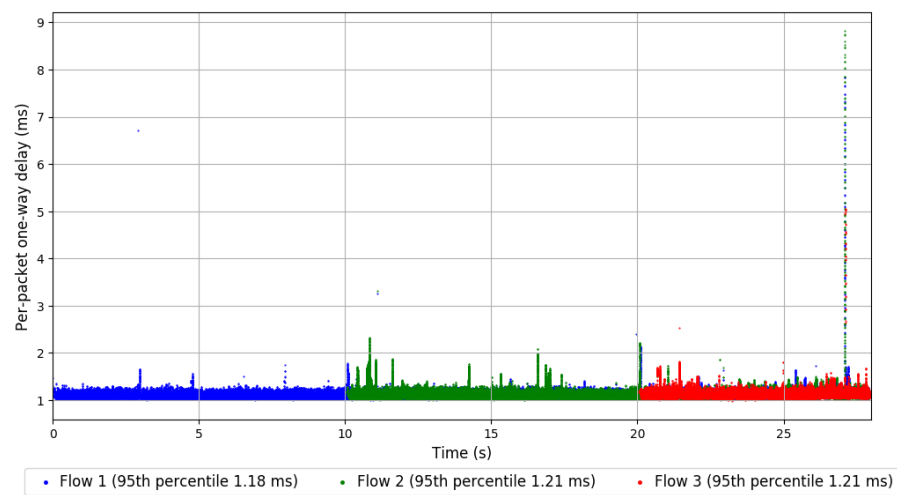
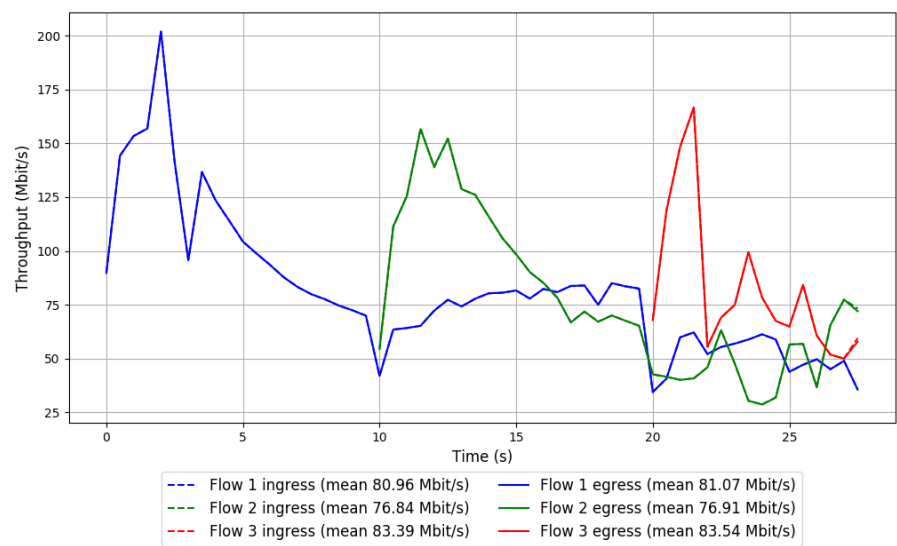


Run 4: Statistics of Copa

Start at: 2017-11-30 19:04:13
End at: 2017-11-30 19:04:43
Local clock offset: 0.228 ms
Remote clock offset: -1.506 ms

Below is generated by plot.py at 2017-12-01 02:19:44
Datalink statistics
-- Total of 3 flows:
Average throughput: 153.93 Mbit/s
95th percentile per-packet one-way delay: 1.196 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 81.07 Mbit/s
95th percentile per-packet one-way delay: 1.183 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 76.91 Mbit/s
95th percentile per-packet one-way delay: 1.208 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 83.54 Mbit/s
95th percentile per-packet one-way delay: 1.212 ms
Loss rate: 0.13%

Run 4: Report of Copa — Data Link

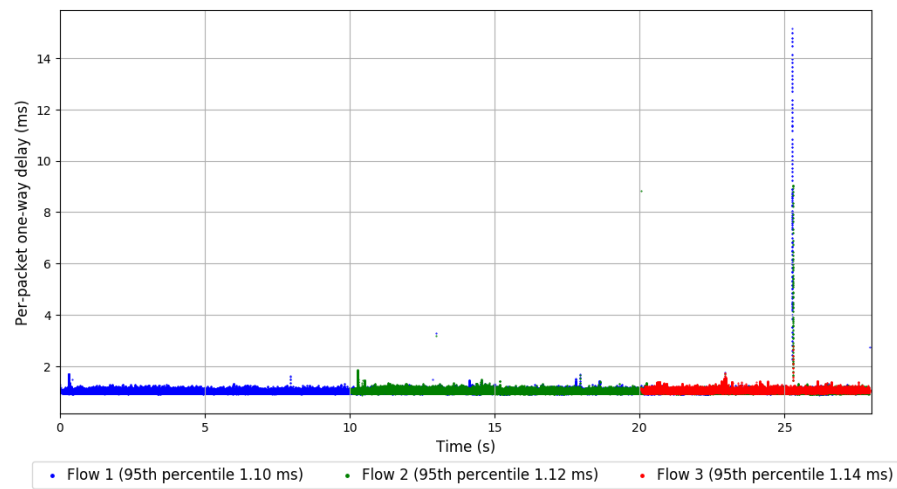
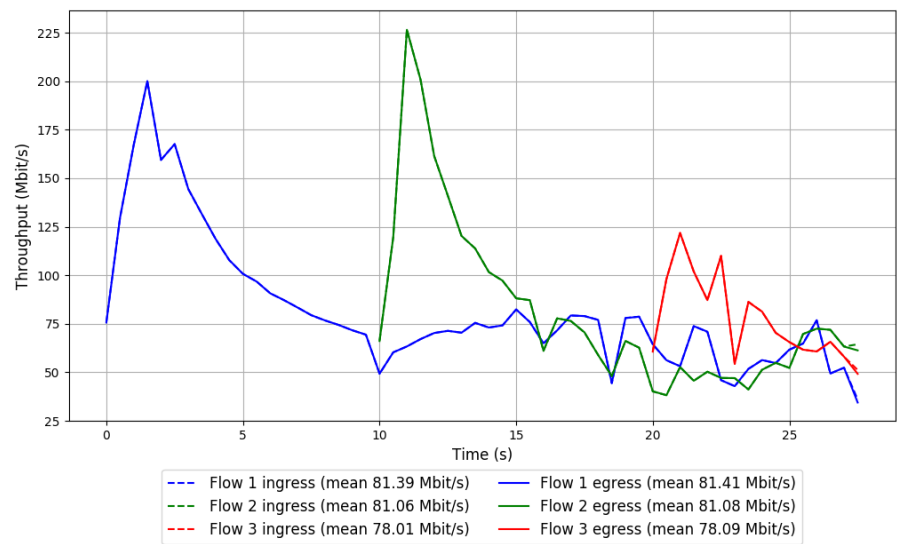


Run 5: Statistics of Copa

Start at: 2017-11-30 19:24:53
End at: 2017-11-30 19:25:23
Local clock offset: 0.089 ms
Remote clock offset: -1.195 ms

Below is generated by plot.py at 2017-12-01 02:20:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 155.47 Mbit/s
95th percentile per-packet one-way delay: 1.116 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 81.41 Mbit/s
95th percentile per-packet one-way delay: 1.105 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 81.08 Mbit/s
95th percentile per-packet one-way delay: 1.119 ms
Loss rate: 0.11%
-- Flow 3:
Average throughput: 78.09 Mbit/s
95th percentile per-packet one-way delay: 1.142 ms
Loss rate: 0.17%

Run 5: Report of Copa — Data Link

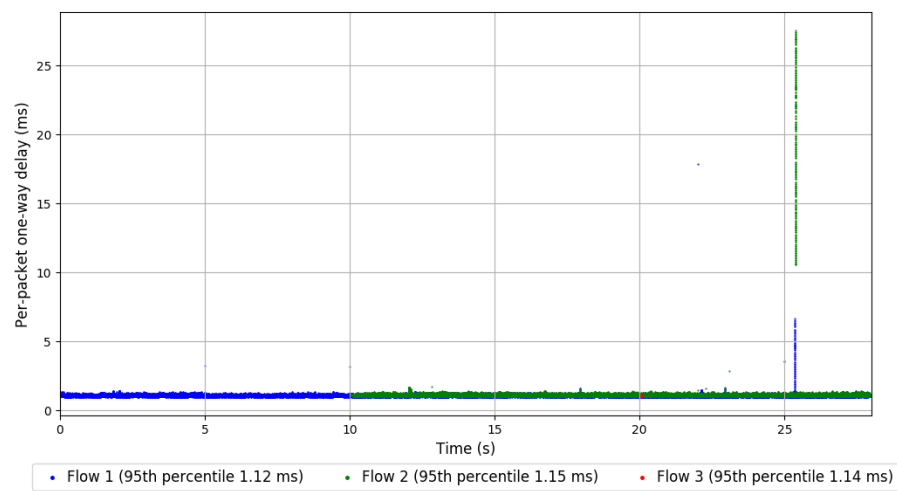
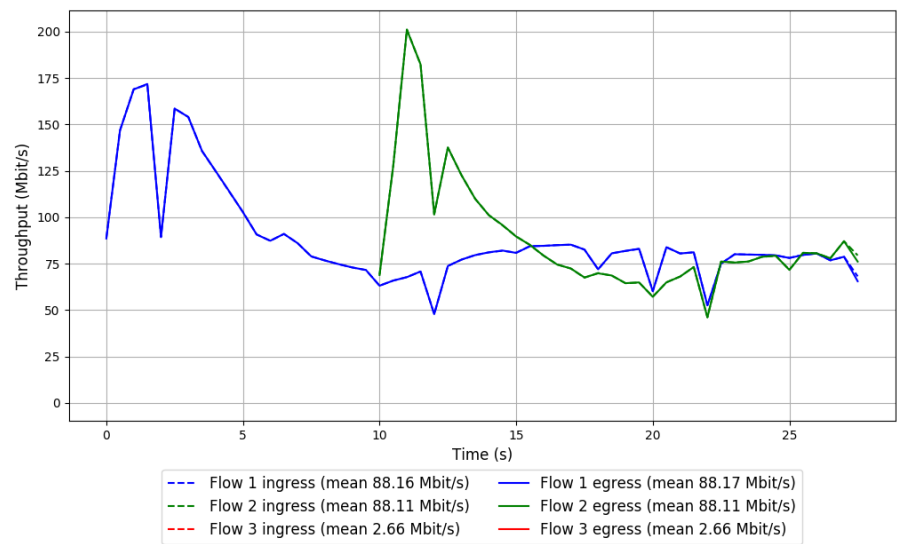


Run 6: Statistics of Copa

Start at: 2017-11-30 19:45:31
End at: 2017-11-30 19:46:01
Local clock offset: 0.136 ms
Remote clock offset: -0.795 ms

Below is generated by plot.py at 2017-12-01 02:20:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 144.64 Mbit/s
95th percentile per-packet one-way delay: 1.136 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 88.17 Mbit/s
95th percentile per-packet one-way delay: 1.121 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 88.11 Mbit/s
95th percentile per-packet one-way delay: 1.151 ms
Loss rate: 0.11%
-- Flow 3:
Average throughput: 2.66 Mbit/s
95th percentile per-packet one-way delay: 1.135 ms
Loss rate: 0.00%

Run 6: Report of Copa — Data Link

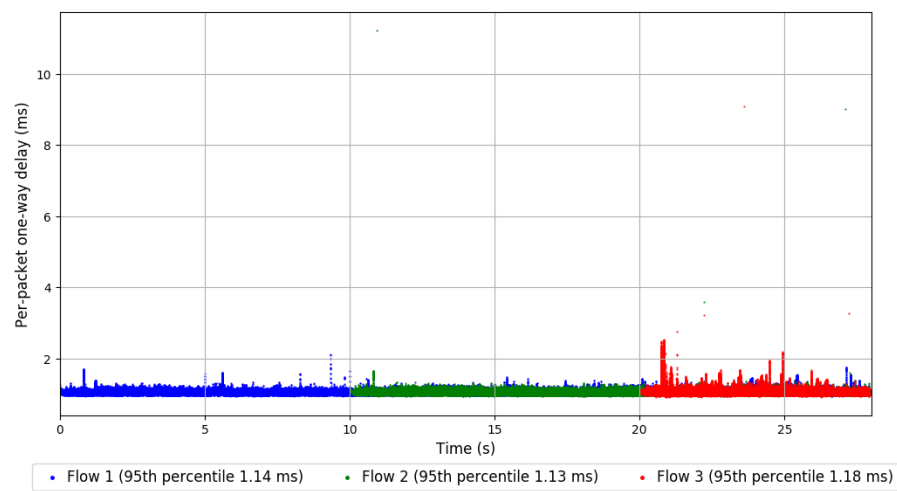
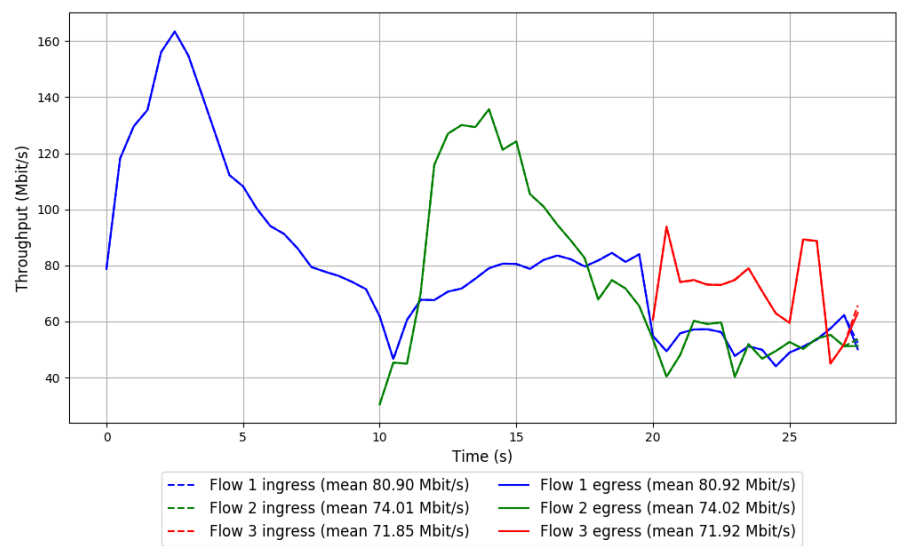


Run 7: Statistics of Copa

Start at: 2017-11-30 20:06:12
End at: 2017-11-30 20:06:42
Local clock offset: 0.011 ms
Remote clock offset: -1.056 ms

Below is generated by plot.py at 2017-12-01 02:21:02
Datalink statistics
-- Total of 3 flows:
Average throughput: 148.65 Mbit/s
95th percentile per-packet one-way delay: 1.138 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 80.92 Mbit/s
95th percentile per-packet one-way delay: 1.135 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 74.02 Mbit/s
95th percentile per-packet one-way delay: 1.132 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 71.92 Mbit/s
95th percentile per-packet one-way delay: 1.176 ms
Loss rate: 0.24%

Run 7: Report of Copa — Data Link

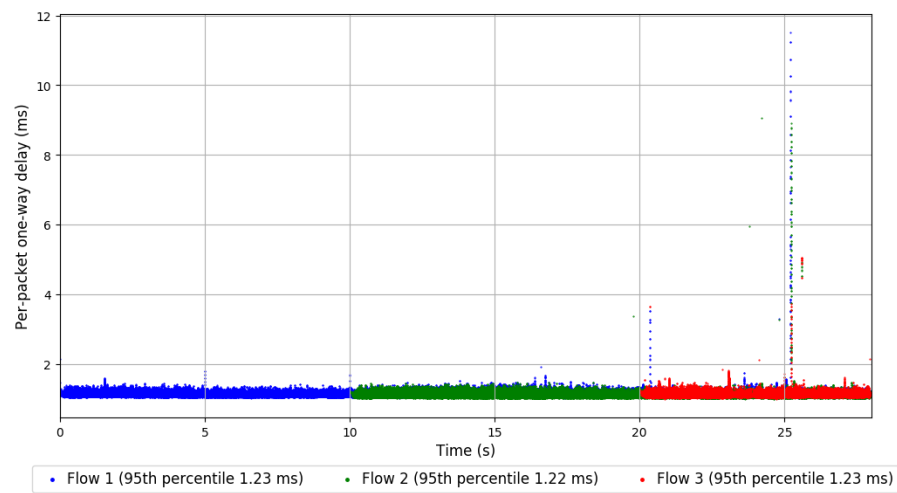
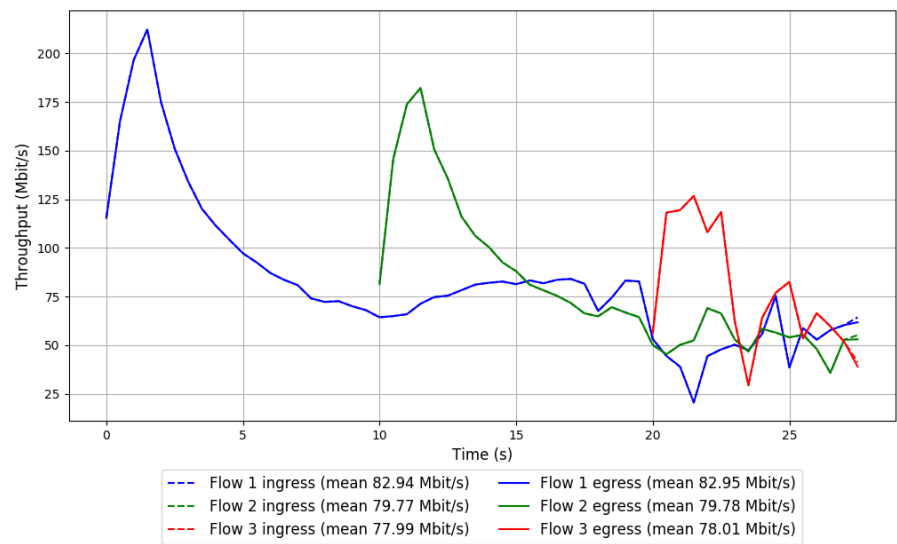


Run 8: Statistics of Copa

Start at: 2017-11-30 20:26:45
End at: 2017-11-30 20:27:15
Local clock offset: 0.181 ms
Remote clock offset: -1.116 ms

Below is generated by plot.py at 2017-12-01 02:21:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 156.14 Mbit/s
95th percentile per-packet one-way delay: 1.225 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 82.95 Mbit/s
95th percentile per-packet one-way delay: 1.227 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 79.78 Mbit/s
95th percentile per-packet one-way delay: 1.217 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 78.01 Mbit/s
95th percentile per-packet one-way delay: 1.234 ms
Loss rate: 0.19%

Run 8: Report of Copa — Data Link

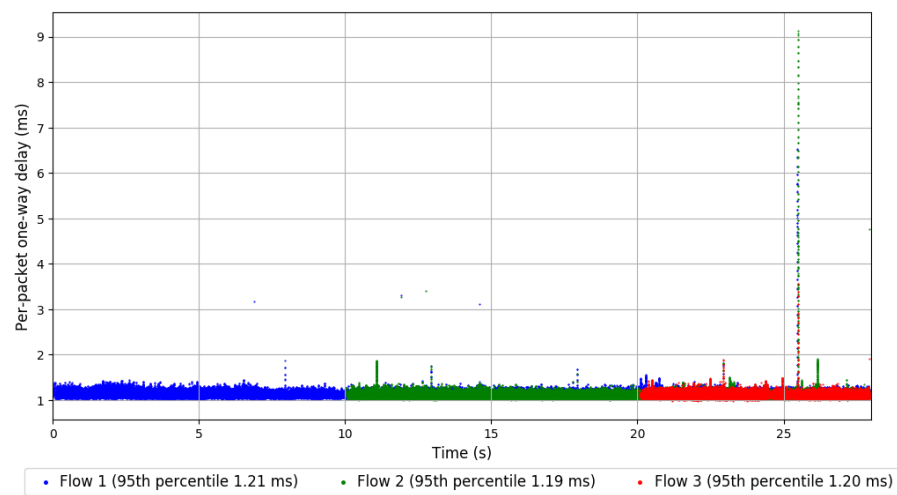
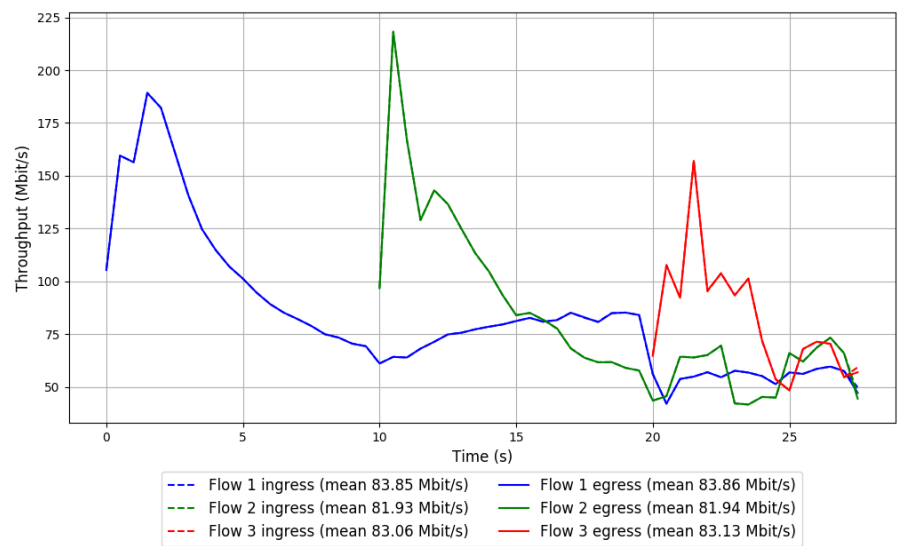


Run 9: Statistics of Copa

Start at: 2017-11-30 20:47:17
End at: 2017-11-30 20:47:47
Local clock offset: 0.108 ms
Remote clock offset: -0.819 ms

Below is generated by plot.py at 2017-12-01 02:21:33
Datalink statistics
-- Total of 3 flows:
Average throughput: 159.91 Mbit/s
95th percentile per-packet one-way delay: 1.202 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 83.86 Mbit/s
95th percentile per-packet one-way delay: 1.209 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 81.94 Mbit/s
95th percentile per-packet one-way delay: 1.190 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 83.13 Mbit/s
95th percentile per-packet one-way delay: 1.198 ms
Loss rate: 0.19%

Run 9: Report of Copa — Data Link

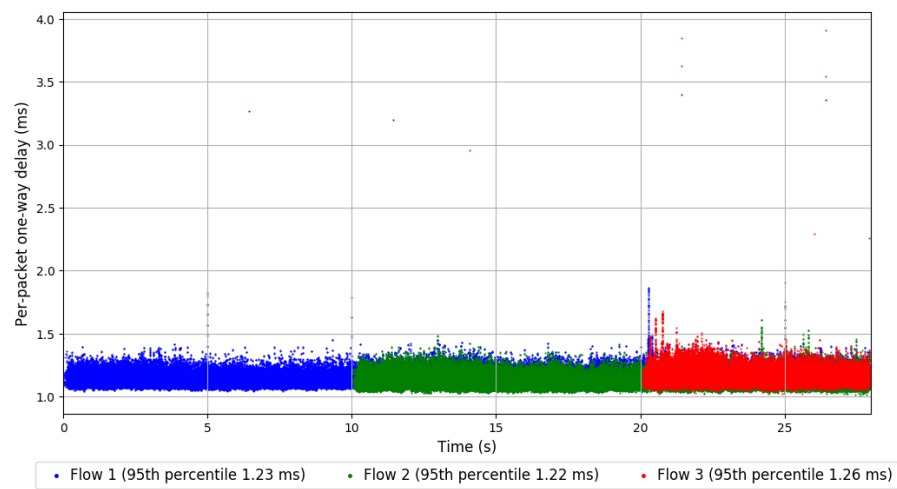
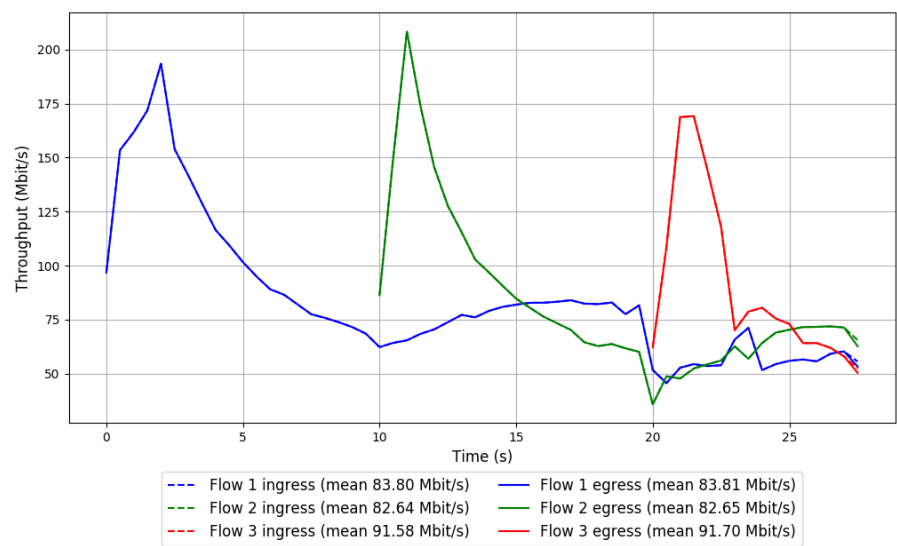


Run 10: Statistics of Copa

Start at: 2017-11-30 21:07:37
End at: 2017-11-30 21:08:07
Local clock offset: 0.005 ms
Remote clock offset: -0.994 ms

Below is generated by plot.py at 2017-12-01 02:21:52
Datalink statistics
-- Total of 3 flows:
Average throughput: 162.71 Mbit/s
95th percentile per-packet one-way delay: 1.233 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 83.81 Mbit/s
95th percentile per-packet one-way delay: 1.227 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 82.65 Mbit/s
95th percentile per-packet one-way delay: 1.220 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 91.70 Mbit/s
95th percentile per-packet one-way delay: 1.265 ms
Loss rate: 0.15%

Run 10: Report of Copa — Data Link

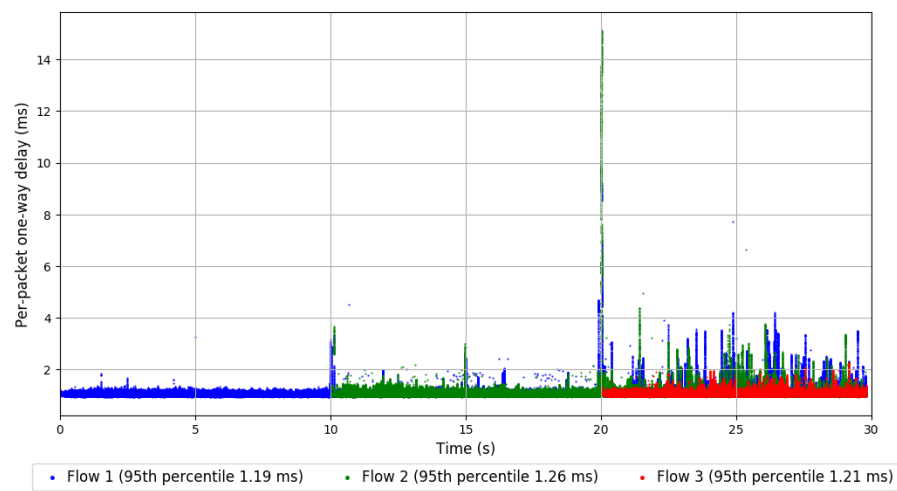
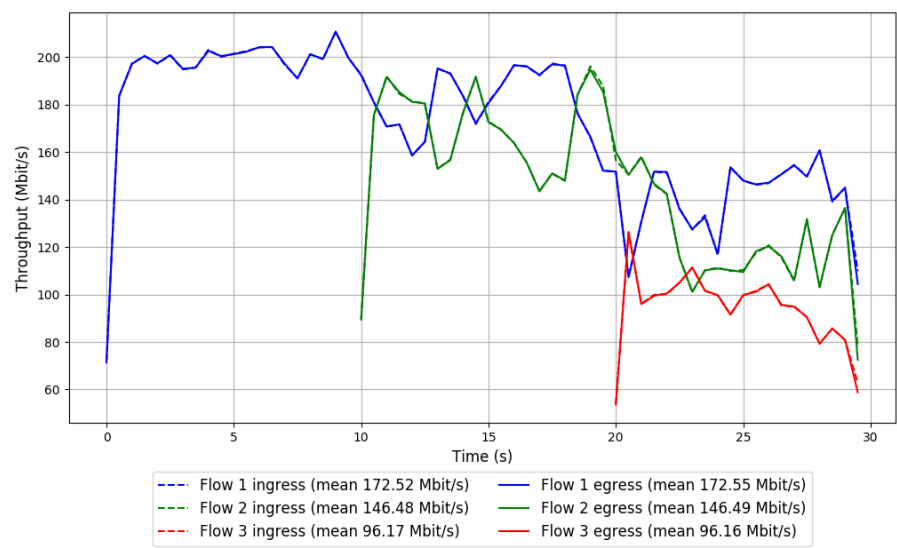


```
Run 1: Statistics of Indigo

Start at: 2017-11-30 17:53:52
End at: 2017-11-30 17:54:22
Local clock offset: 0.173 ms
Remote clock offset: -2.428 ms

# Below is generated by plot.py at 2017-12-01 02:23:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 301.18 Mbit/s
95th percentile per-packet one-way delay: 1.217 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 172.55 Mbit/s
95th percentile per-packet one-way delay: 1.193 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 146.49 Mbit/s
95th percentile per-packet one-way delay: 1.265 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 96.16 Mbit/s
95th percentile per-packet one-way delay: 1.208 ms
Loss rate: 0.22%
```


Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2017-11-30 18:14:25

End at: 2017-11-30 18:14:55

Local clock offset: 0.186 ms

Remote clock offset: -2.22 ms

Below is generated by plot.py at 2017-12-01 02:23:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 297.42 Mbit/s

95th percentile per-packet one-way delay: 1.176 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 166.79 Mbit/s

95th percentile per-packet one-way delay: 1.163 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 148.38 Mbit/s

95th percentile per-packet one-way delay: 1.173 ms

Loss rate: 0.08%

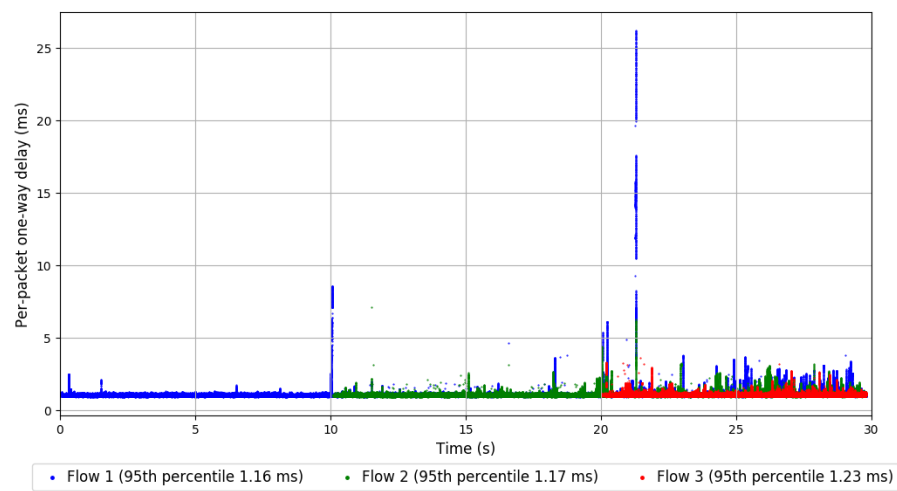
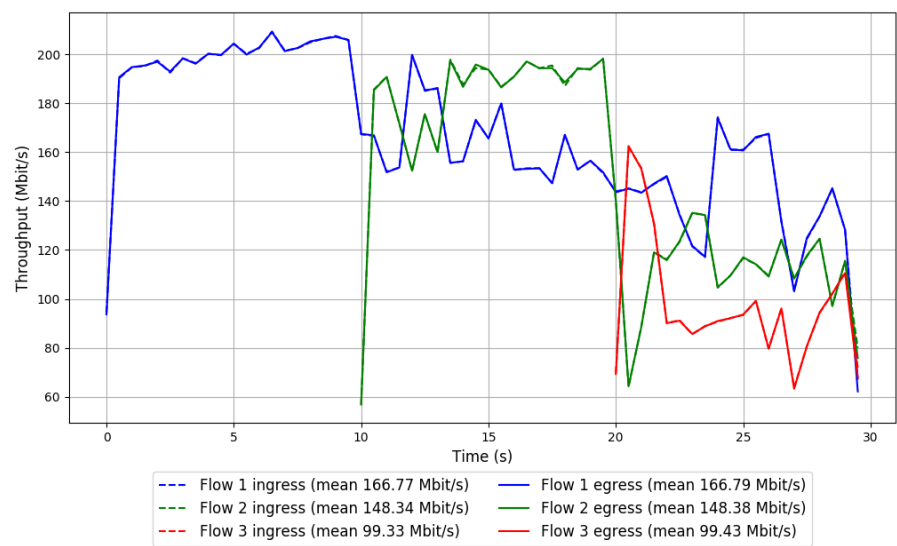
-- Flow 3:

Average throughput: 99.43 Mbit/s

95th percentile per-packet one-way delay: 1.229 ms

Loss rate: 0.22%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2017-11-30 18:35:04

End at: 2017-11-30 18:35:34

Local clock offset: 0.201 ms

Remote clock offset: -1.73 ms

Below is generated by plot.py at 2017-12-01 02:23:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 257.20 Mbit/s

95th percentile per-packet one-way delay: 1.178 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 111.69 Mbit/s

95th percentile per-packet one-way delay: 1.133 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 167.31 Mbit/s

95th percentile per-packet one-way delay: 1.242 ms

Loss rate: 0.09%

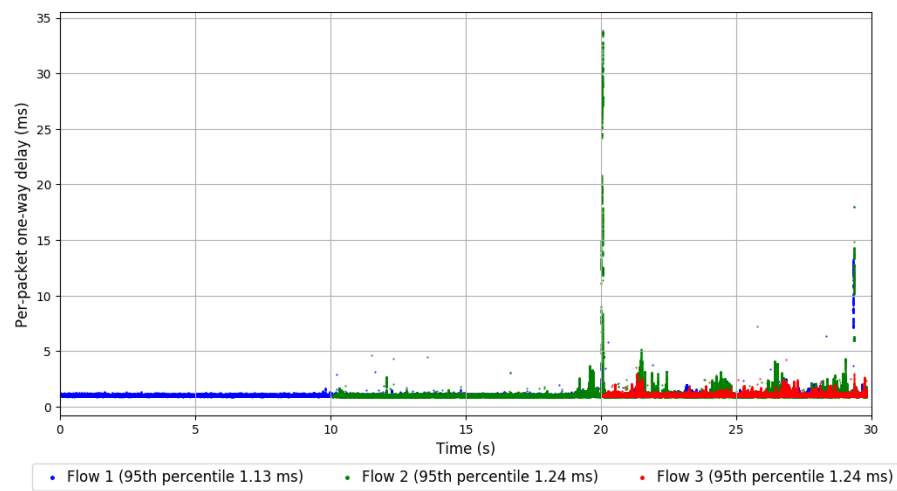
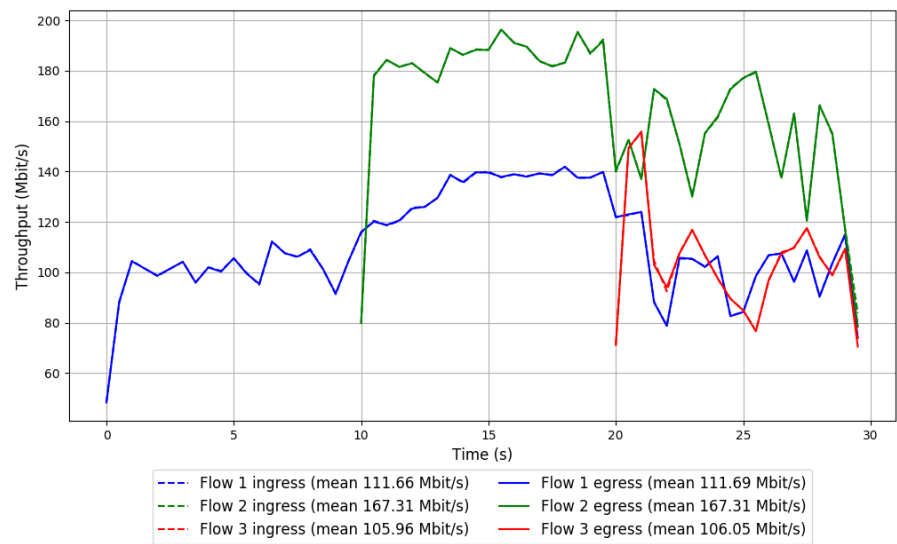
-- Flow 3:

Average throughput: 106.05 Mbit/s

95th percentile per-packet one-way delay: 1.239 ms

Loss rate: 0.16%

Run 3: Report of Indigo — Data Link

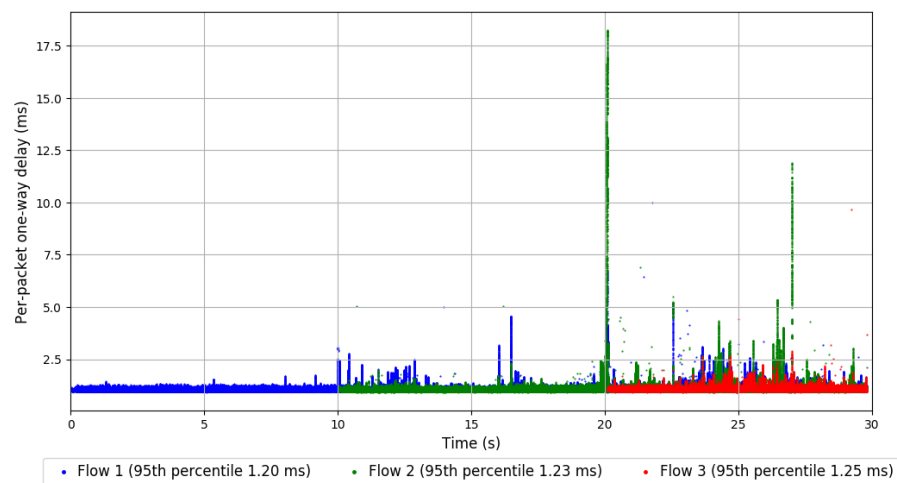
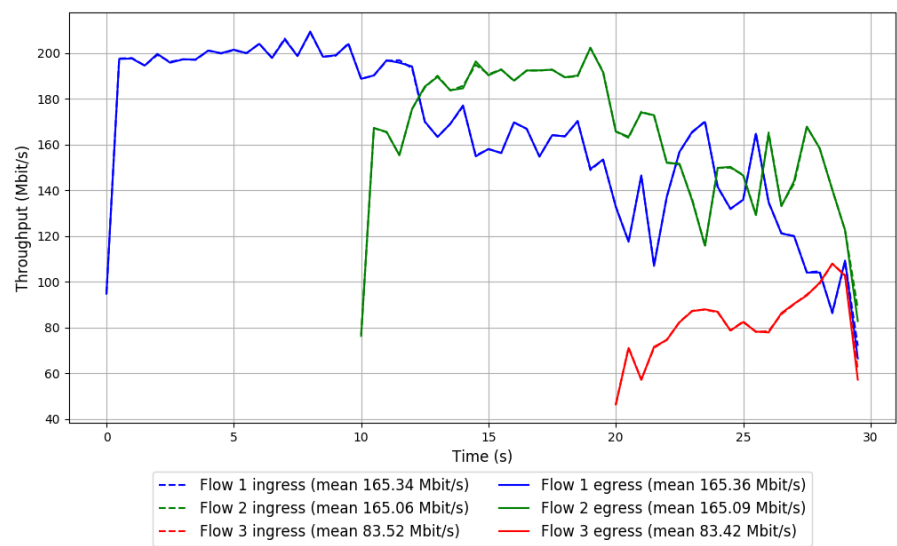


Run 4: Statistics of Indigo

Start at: 2017-11-30 18:55:52
End at: 2017-11-30 18:56:22
Local clock offset: 0.171 ms
Remote clock offset: -1.626 ms

Below is generated by plot.py at 2017-12-01 02:24:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 301.95 Mbit/s
95th percentile per-packet one-way delay: 1.213 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 165.36 Mbit/s
95th percentile per-packet one-way delay: 1.201 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 165.09 Mbit/s
95th percentile per-packet one-way delay: 1.228 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 83.42 Mbit/s
95th percentile per-packet one-way delay: 1.247 ms
Loss rate: 0.29%

Run 4: Report of Indigo — Data Link

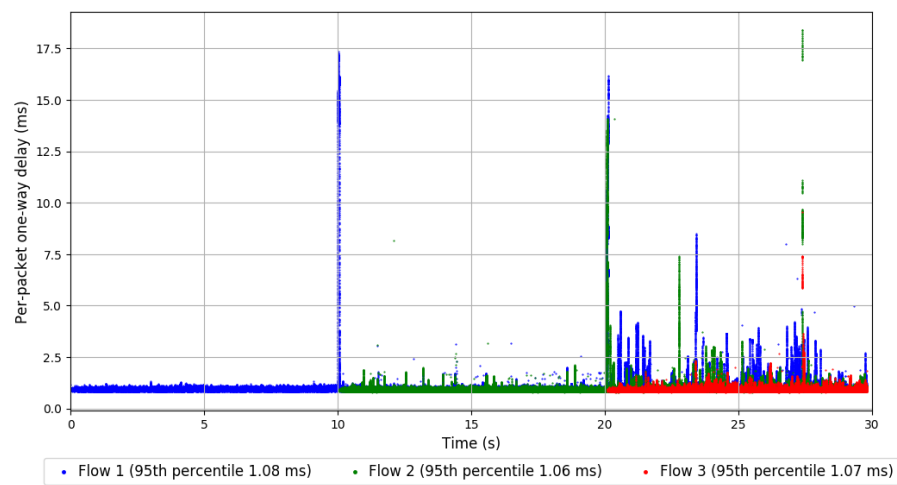
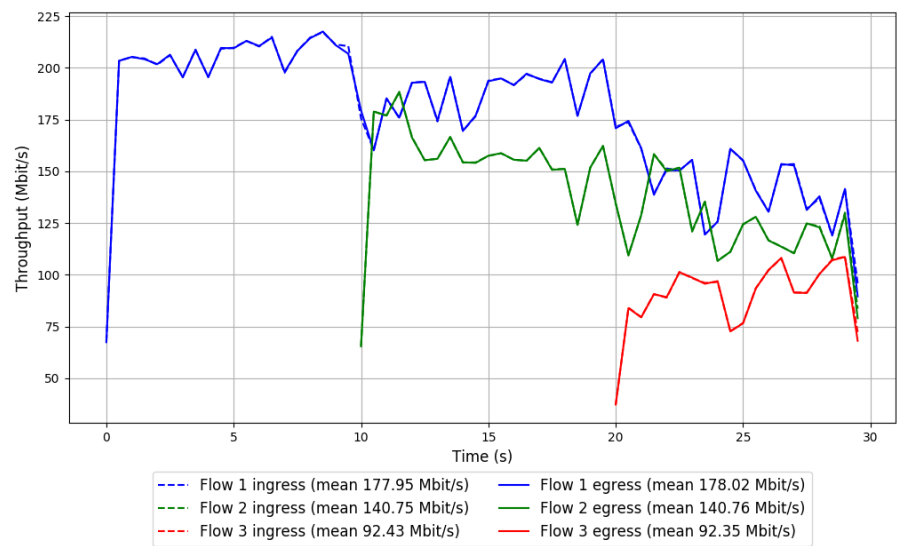


Run 5: Statistics of Indigo

Start at: 2017-11-30 19:16:30
End at: 2017-11-30 19:17:00
Local clock offset: 0.102 ms
Remote clock offset: -1.033 ms

Below is generated by plot.py at 2017-12-01 02:25:16
Datalink statistics
-- Total of 3 flows:
Average throughput: 301.28 Mbit/s
95th percentile per-packet one-way delay: 1.073 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 178.02 Mbit/s
95th percentile per-packet one-way delay: 1.081 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 140.76 Mbit/s
95th percentile per-packet one-way delay: 1.057 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 92.35 Mbit/s
95th percentile per-packet one-way delay: 1.071 ms
Loss rate: 0.28%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2017-11-30 19:37:10

End at: 2017-11-30 19:37:40

Local clock offset: 0.065 ms

Remote clock offset: -0.96 ms

Below is generated by plot.py at 2017-12-01 02:25:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 301.06 Mbit/s

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

Loss rate: 0.08%

-- Flow 1:

Average throughput: 166.43 Mbit/s

95th percentile per-packet one-way delay: 1.221 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 150.81 Mbit/s

95th percentile per-packet one-way delay: 1.239 ms

Loss rate: 0.08%

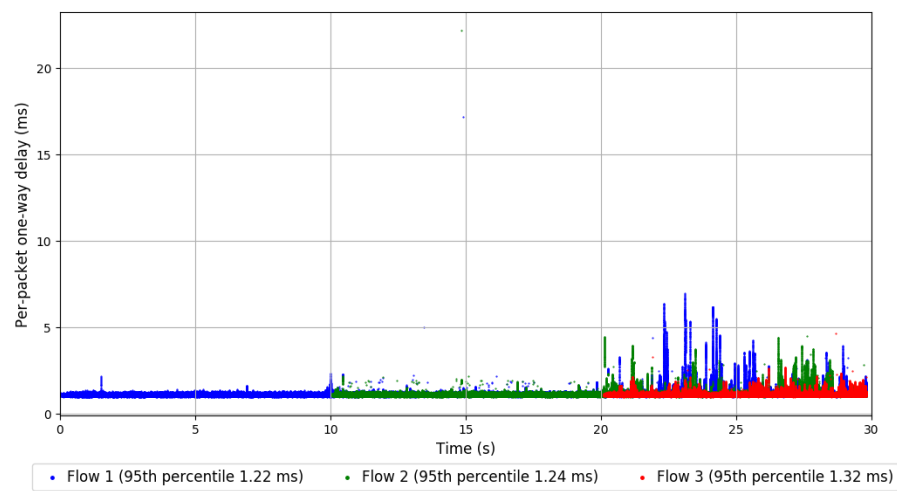
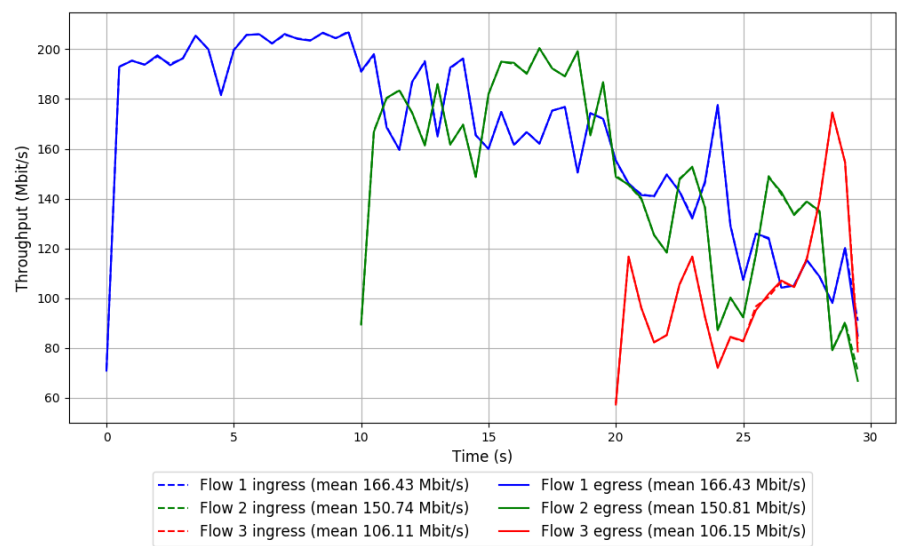
-- Flow 3:

Average throughput: 106.15 Mbit/s

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

Loss rate: 0.17%

Run 6: Report of Indigo — Data Link

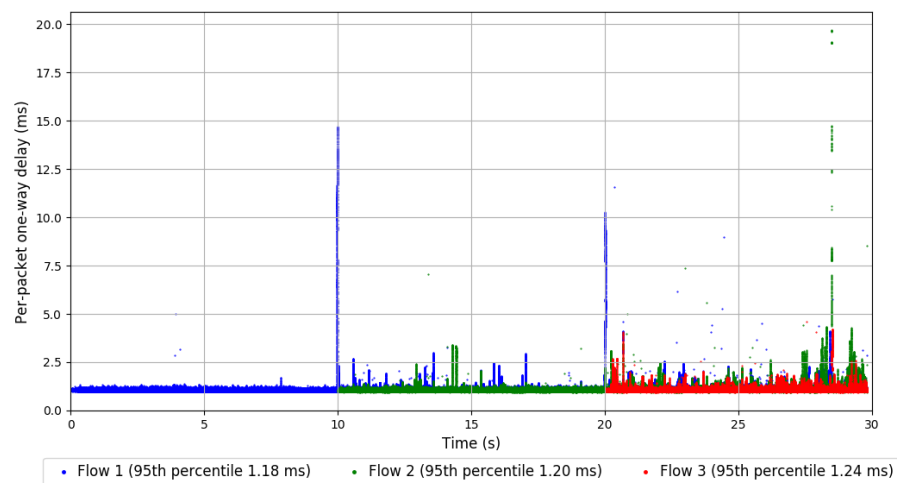
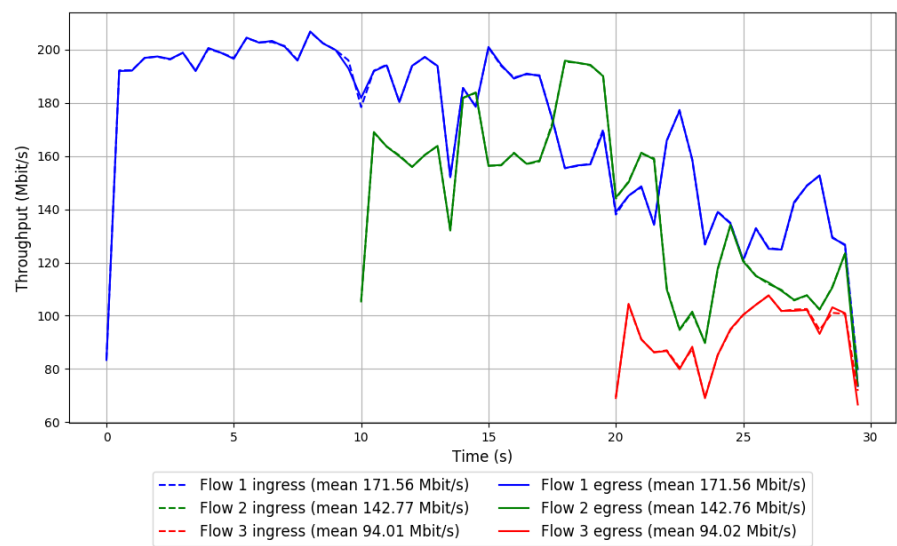


Run 7: Statistics of Indigo

Start at: 2017-11-30 19:57:51
End at: 2017-11-30 19:58:21
Local clock offset: 0.086 ms
Remote clock offset: -0.914 ms

Below is generated by plot.py at 2017-12-01 02:25:44
Datalink statistics
-- Total of 3 flows:
Average throughput: 297.23 Mbit/s
95th percentile per-packet one-way delay: 1.192 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 171.56 Mbit/s
95th percentile per-packet one-way delay: 1.182 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 142.76 Mbit/s
95th percentile per-packet one-way delay: 1.201 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 94.02 Mbit/s
95th percentile per-packet one-way delay: 1.242 ms
Loss rate: 0.28%

Run 7: Report of Indigo — Data Link

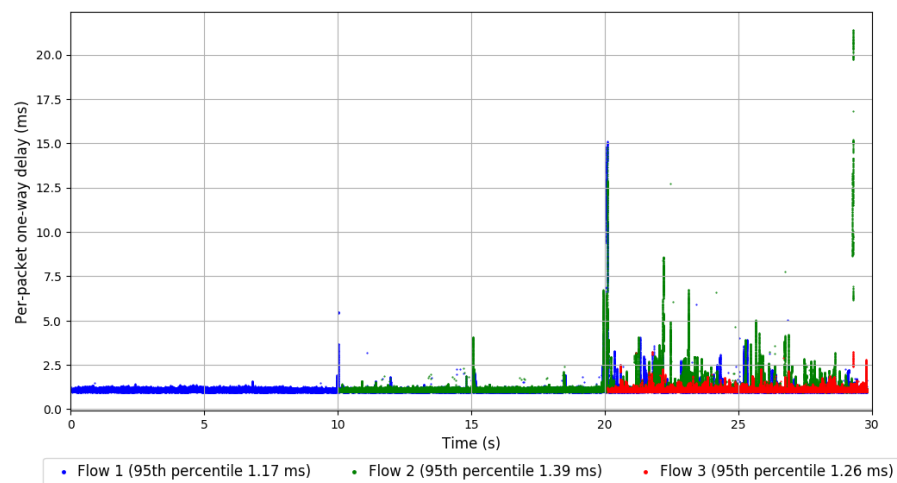
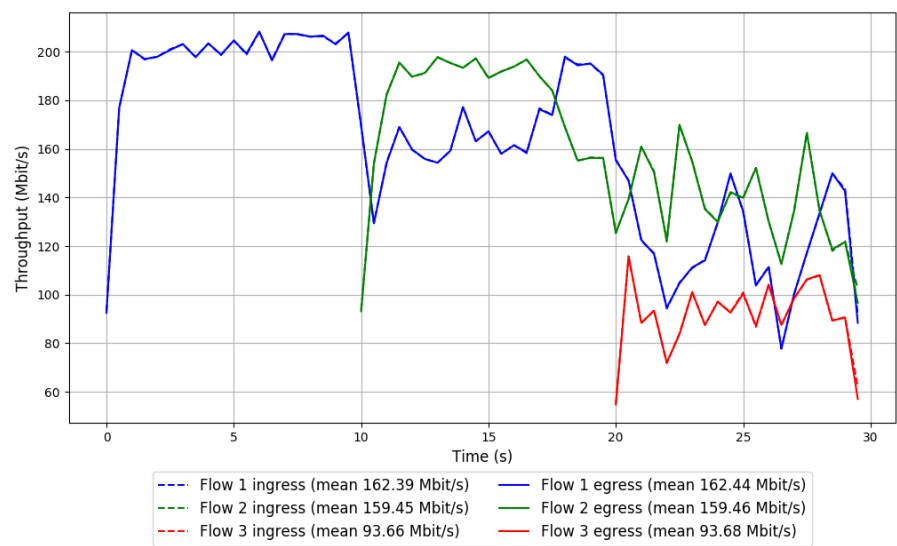


Run 8: Statistics of Indigo

Start at: 2017-11-30 20:18:24
End at: 2017-11-30 20:18:54
Local clock offset: 0.158 ms
Remote clock offset: -0.963 ms

Below is generated by plot.py at 2017-12-01 02:26:06
Datalink statistics
-- Total of 3 flows:
Average throughput: 298.71 Mbit/s
95th percentile per-packet one-way delay: 1.224 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 162.44 Mbit/s
95th percentile per-packet one-way delay: 1.171 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 159.46 Mbit/s
95th percentile per-packet one-way delay: 1.393 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 93.68 Mbit/s
95th percentile per-packet one-way delay: 1.261 ms
Loss rate: 0.28%

Run 8: Report of Indigo — Data Link

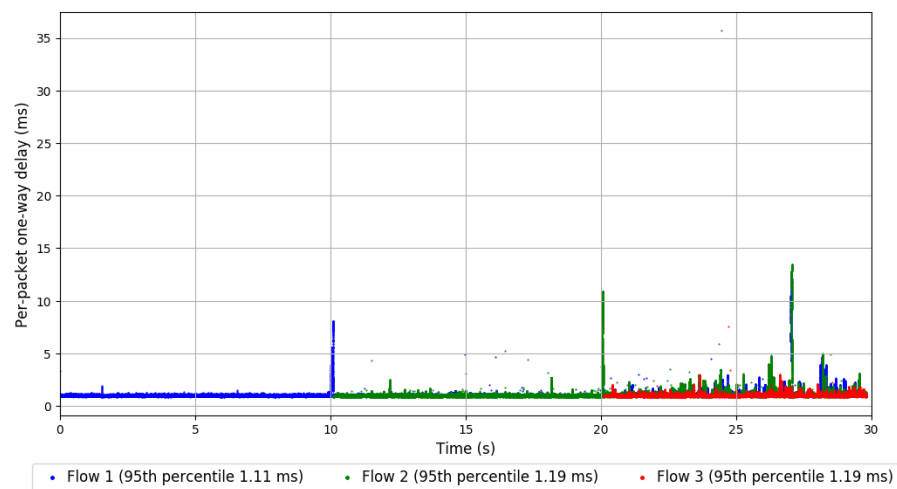
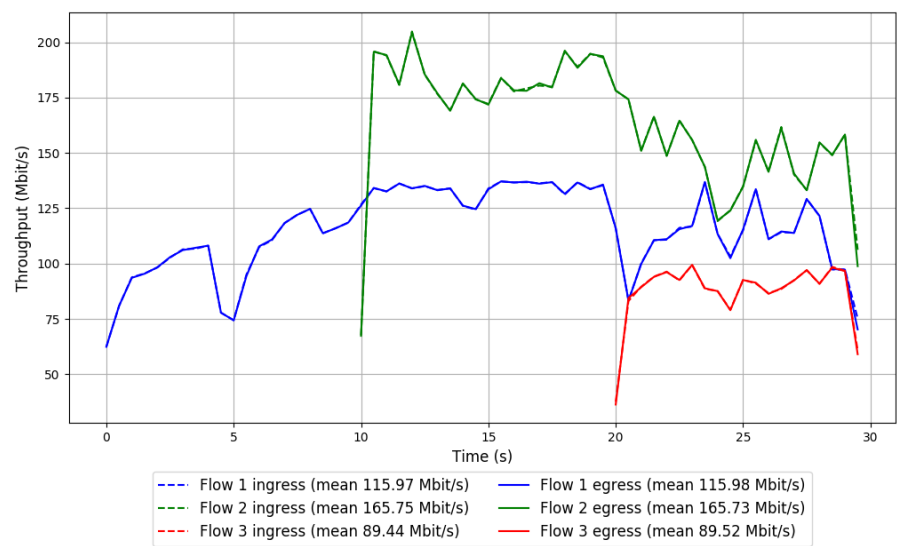


Run 9: Statistics of Indigo

Start at: 2017-11-30 20:39:00
End at: 2017-11-30 20:39:30
Local clock offset: 0.075 ms
Remote clock offset: -0.947 ms

Below is generated by plot.py at 2017-12-01 02:26:45
Datalink statistics
-- Total of 3 flows:
Average throughput: 254.70 Mbit/s
95th percentile per-packet one-way delay: 1.145 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 115.98 Mbit/s
95th percentile per-packet one-way delay: 1.111 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 165.73 Mbit/s
95th percentile per-packet one-way delay: 1.187 ms
Loss rate: 0.11%
-- Flow 3:
Average throughput: 89.52 Mbit/s
95th percentile per-packet one-way delay: 1.189 ms
Loss rate: 0.13%

Run 9: Report of Indigo — Data Link

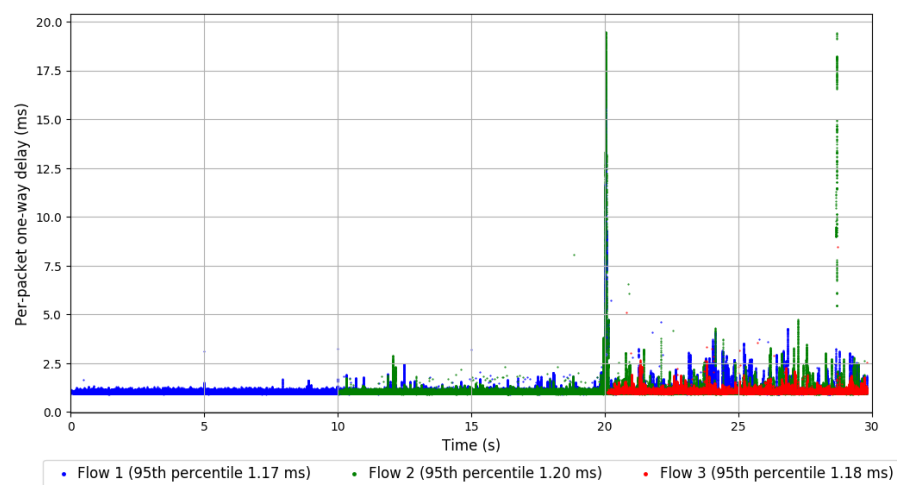
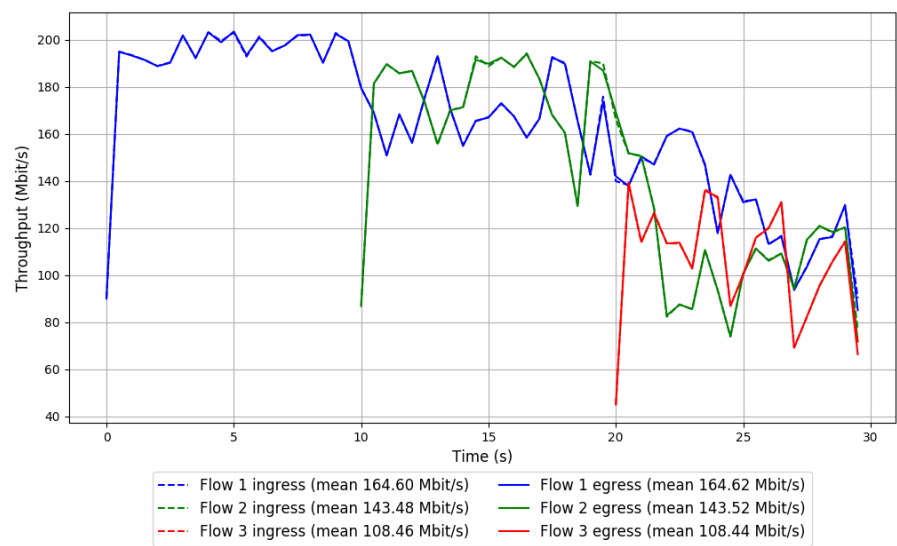


Run 10: Statistics of Indigo

Start at: 2017-11-30 20:59:16
End at: 2017-11-30 20:59:46
Local clock offset: -0.037 ms
Remote clock offset: -0.944 ms

Below is generated by plot.py at 2017-12-01 02:28:14
Datalink statistics
-- Total of 3 flows:
Average throughput: 295.22 Mbit/s
95th percentile per-packet one-way delay: 1.179 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 164.62 Mbit/s
95th percentile per-packet one-way delay: 1.169 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 143.52 Mbit/s
95th percentile per-packet one-way delay: 1.195 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 108.44 Mbit/s
95th percentile per-packet one-way delay: 1.183 ms
Loss rate: 0.22%

Run 10: Report of Indigo — Data Link

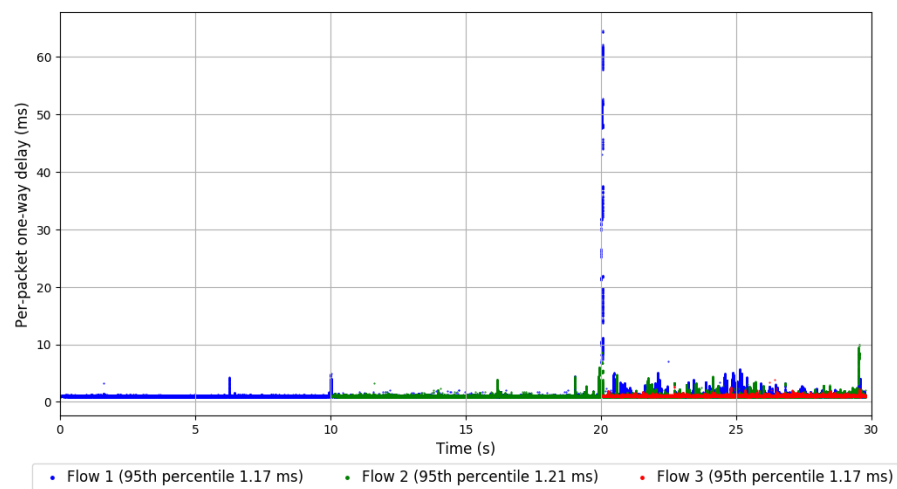
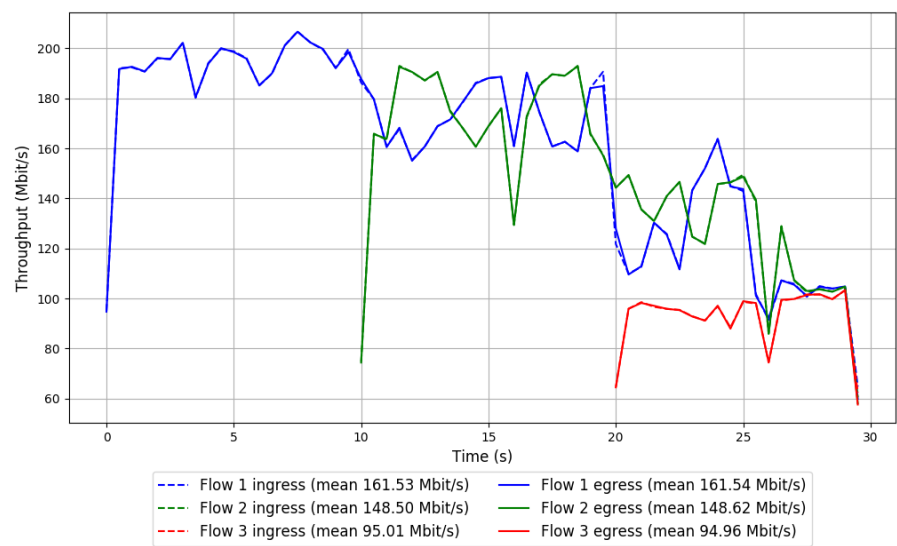


```
Run 1: Statistics of Indigo-calib

Start at: 2017-11-30 17:50:48
End at: 2017-11-30 17:51:19
Local clock offset: 0.18 ms
Remote clock offset: -2.426 ms

# Below is generated by plot.py at 2017-12-01 02:28:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 291.02 Mbit/s
95th percentile per-packet one-way delay: 1.181 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 161.54 Mbit/s
95th percentile per-packet one-way delay: 1.170 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 148.62 Mbit/s
95th percentile per-packet one-way delay: 1.206 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 94.96 Mbit/s
95th percentile per-packet one-way delay: 1.166 ms
Loss rate: 0.26%
```

Run 1: Report of Indigo-calib — Data Link

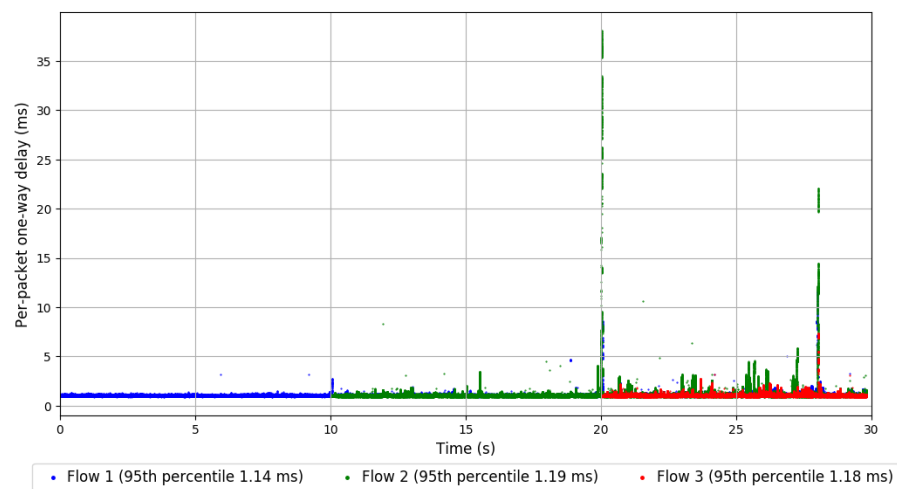
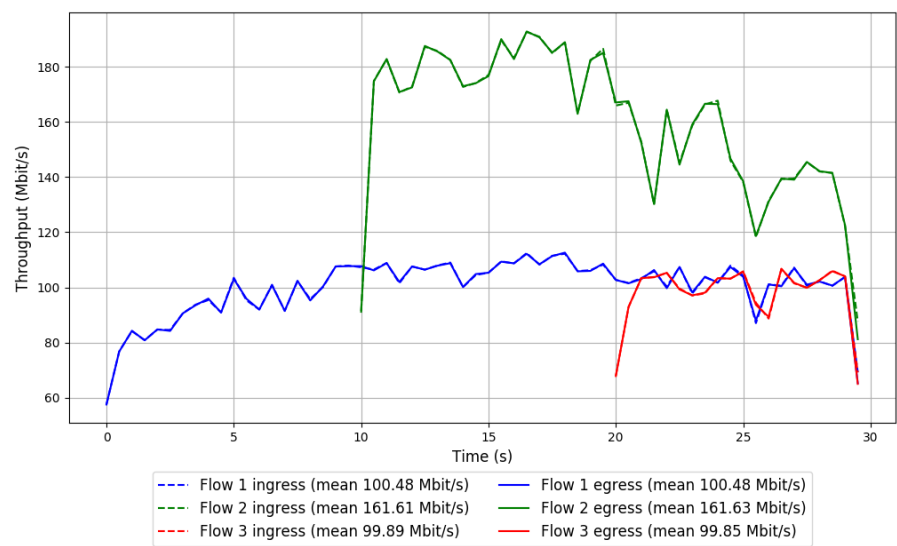


```
Run 2: Statistics of Indigo-calib

Start at: 2017-11-30 18:11:29
End at: 2017-11-30 18:11:59
Local clock offset: 0.206 ms
Remote clock offset: -2.186 ms

# Below is generated by plot.py at 2017-12-01 02:28:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 240.48 Mbit/s
95th percentile per-packet one-way delay: 1.163 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 100.48 Mbit/s
95th percentile per-packet one-way delay: 1.141 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 161.63 Mbit/s
95th percentile per-packet one-way delay: 1.192 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 99.85 Mbit/s
95th percentile per-packet one-way delay: 1.177 ms
Loss rate: 0.22%
```

Run 2: Report of Indigo-calib — Data Link

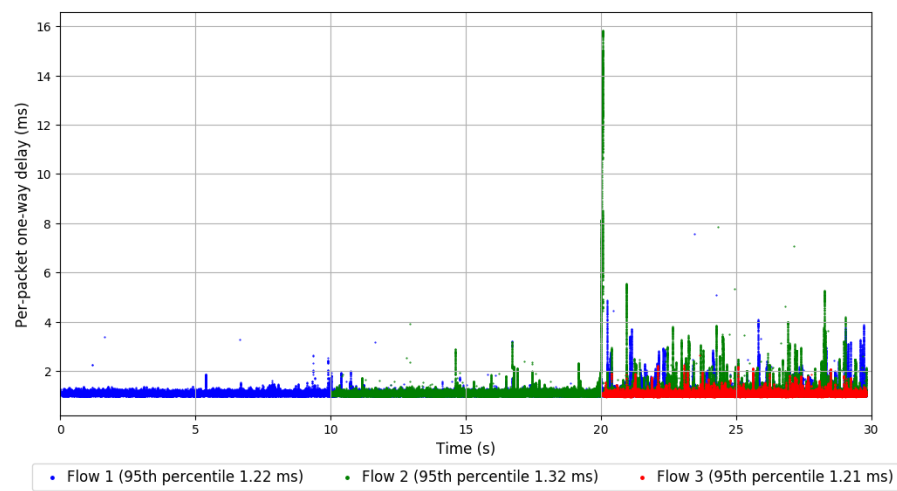
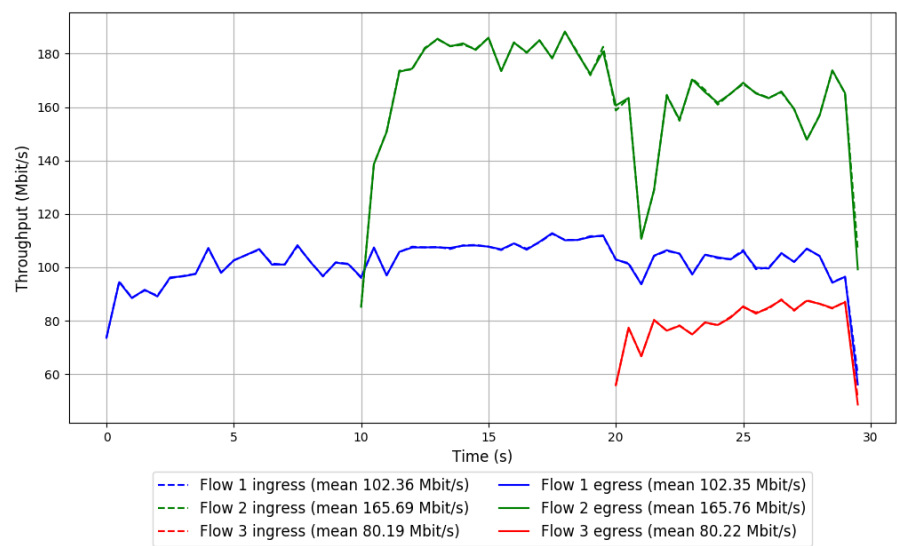


Run 3: Statistics of Indigo-calib

Start at: 2017-11-30 18:32:04
End at: 2017-11-30 18:32:34
Local clock offset: 0.284 ms
Remote clock offset: -1.703 ms

Below is generated by plot.py at 2017-12-01 02:28:41
Datalink statistics
-- Total of 3 flows:
Average throughput: 238.66 Mbit/s
95th percentile per-packet one-way delay: 1.257 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 102.35 Mbit/s
95th percentile per-packet one-way delay: 1.223 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 165.76 Mbit/s
95th percentile per-packet one-way delay: 1.324 ms
Loss rate: 0.11%
-- Flow 3:
Average throughput: 80.22 Mbit/s
95th percentile per-packet one-way delay: 1.210 ms
Loss rate: 0.17%

Run 3: Report of Indigo-calib — Data Link

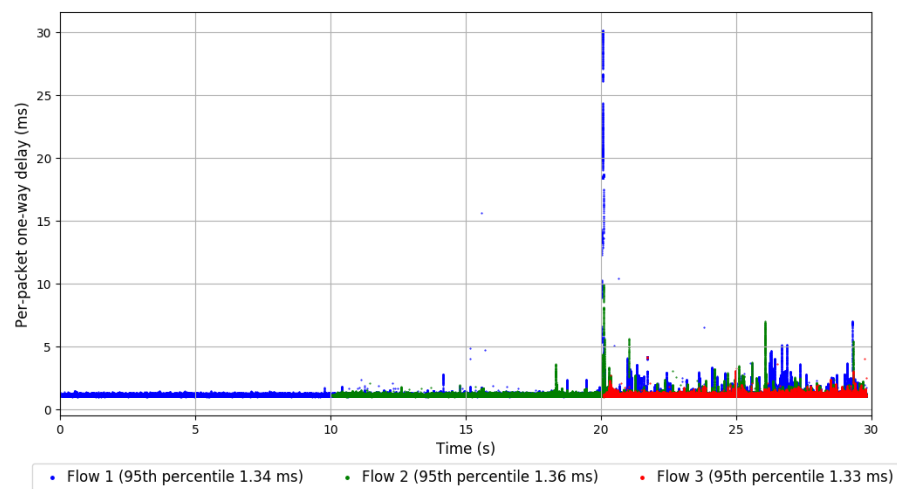
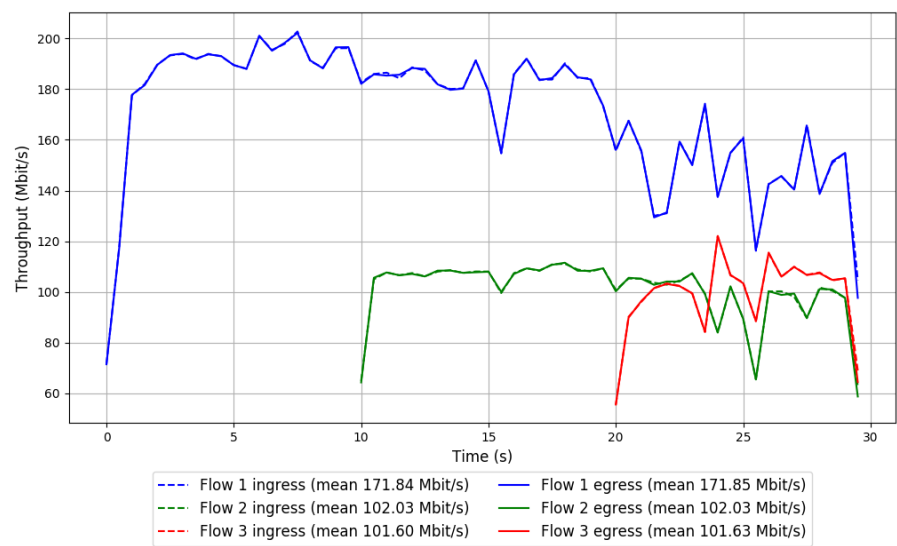


Run 4: Statistics of Indigo-calib

Start at: 2017-11-30 18:52:49
End at: 2017-11-30 18:53:19
Local clock offset: 0.264 ms
Remote clock offset: -1.698 ms

Below is generated by plot.py at 2017-12-01 02:29:15
Datalink statistics
-- Total of 3 flows:
Average throughput: 272.53 Mbit/s
95th percentile per-packet one-way delay: 1.340 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 171.85 Mbit/s
95th percentile per-packet one-way delay: 1.336 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 102.03 Mbit/s
95th percentile per-packet one-way delay: 1.359 ms
Loss rate: 0.11%
-- Flow 3:
Average throughput: 101.63 Mbit/s
95th percentile per-packet one-way delay: 1.327 ms
Loss rate: 0.25%

Run 4: Report of Indigo-calib — Data Link

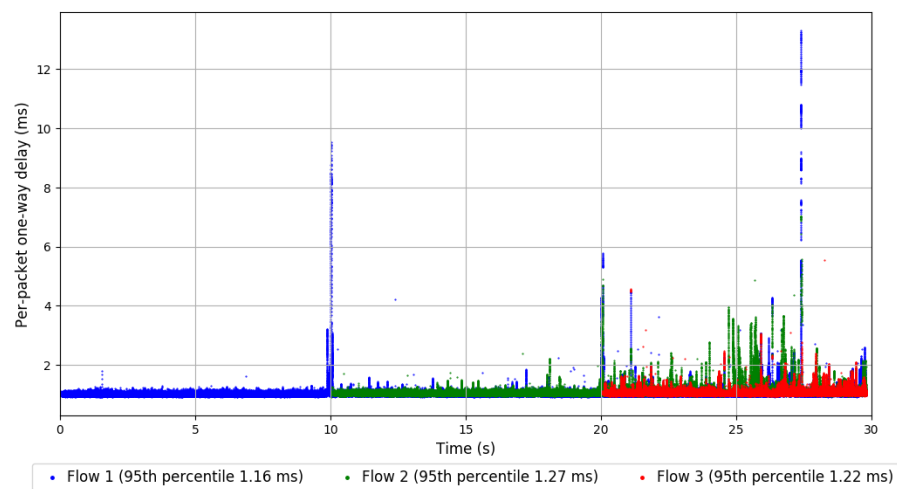
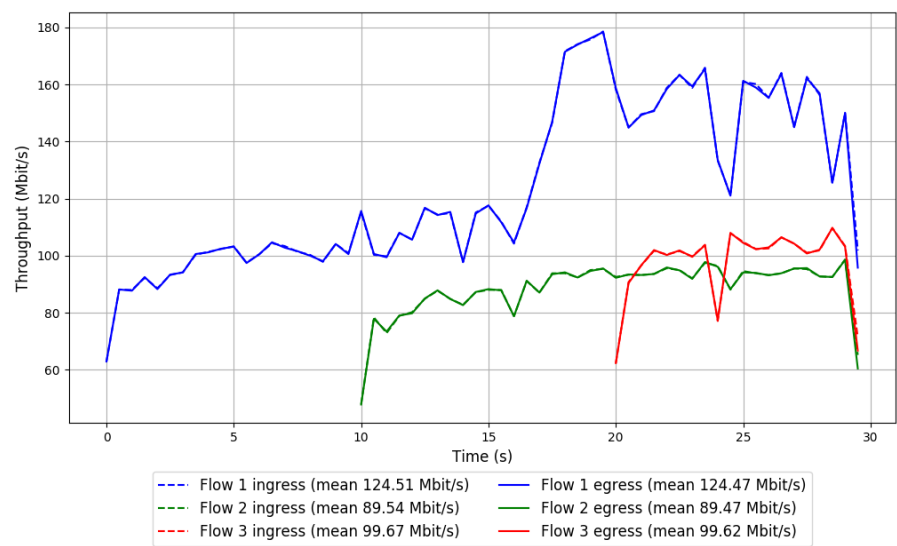


Run 5: Statistics of Indigo-calib

Start at: 2017-11-30 19:13:30
End at: 2017-11-30 19:14:00
Local clock offset: 0.196 ms
Remote clock offset: -1.152 ms

Below is generated by plot.py at 2017-12-01 02:29:15
Datalink statistics
-- Total of 3 flows:
Average throughput: 216.39 Mbit/s
95th percentile per-packet one-way delay: 1.195 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 124.47 Mbit/s
95th percentile per-packet one-way delay: 1.158 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 89.47 Mbit/s
95th percentile per-packet one-way delay: 1.272 ms
Loss rate: 0.14%
-- Flow 3:
Average throughput: 99.62 Mbit/s
95th percentile per-packet one-way delay: 1.216 ms
Loss rate: 0.26%

Run 5: Report of Indigo-calib — Data Link

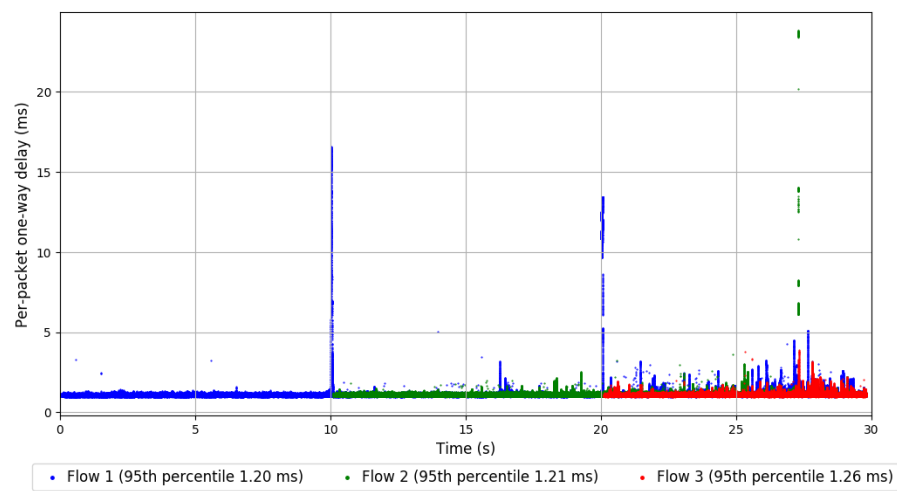
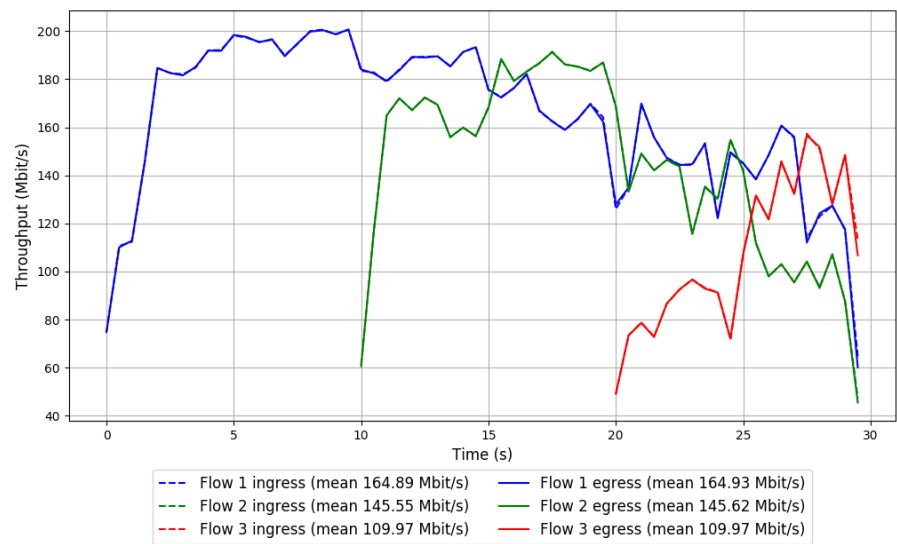


Run 6: Statistics of Indigo-calib

Start at: 2017-11-30 19:34:08
End at: 2017-11-30 19:34:38
Local clock offset: 0.073 ms
Remote clock offset: -1.045 ms

Below is generated by plot.py at 2017-12-01 02:29:48
Datalink statistics
-- Total of 3 flows:
Average throughput: 297.08 Mbit/s
95th percentile per-packet one-way delay: 1.209 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 164.93 Mbit/s
95th percentile per-packet one-way delay: 1.200 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 145.62 Mbit/s
95th percentile per-packet one-way delay: 1.207 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 109.97 Mbit/s
95th percentile per-packet one-way delay: 1.261 ms
Loss rate: 0.30%

Run 6: Report of Indigo-calib — Data Link

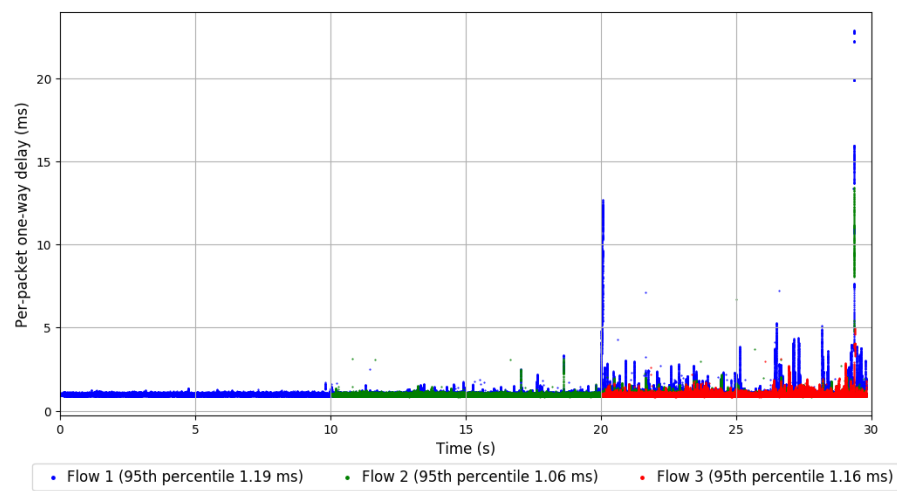
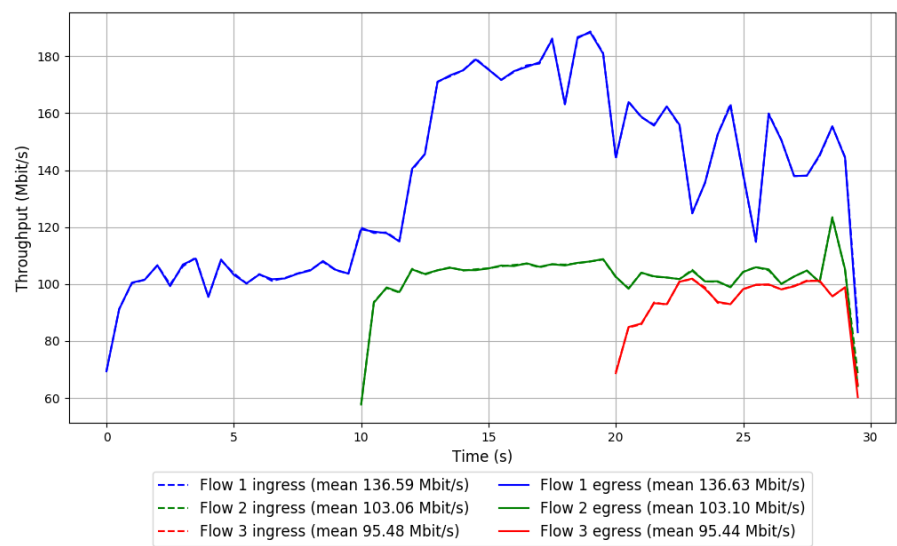


Run 7: Statistics of Indigo-calib

Start at: 2017-11-30 19:54:50
End at: 2017-11-30 19:55:20
Local clock offset: -0.001 ms
Remote clock offset: -0.903 ms

Below is generated by plot.py at 2017-12-01 02:29:48
Datalink statistics
-- Total of 3 flows:
Average throughput: 236.35 Mbit/s
95th percentile per-packet one-way delay: 1.136 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 136.63 Mbit/s
95th percentile per-packet one-way delay: 1.190 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 103.10 Mbit/s
95th percentile per-packet one-way delay: 1.065 ms
Loss rate: 0.11%
-- Flow 3:
Average throughput: 95.44 Mbit/s
95th percentile per-packet one-way delay: 1.157 ms
Loss rate: 0.23%

Run 7: Report of Indigo-calib — Data Link

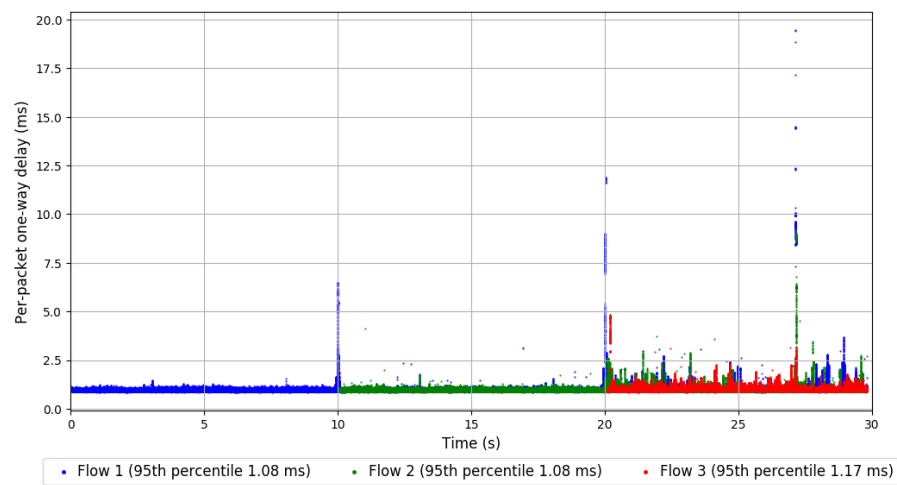
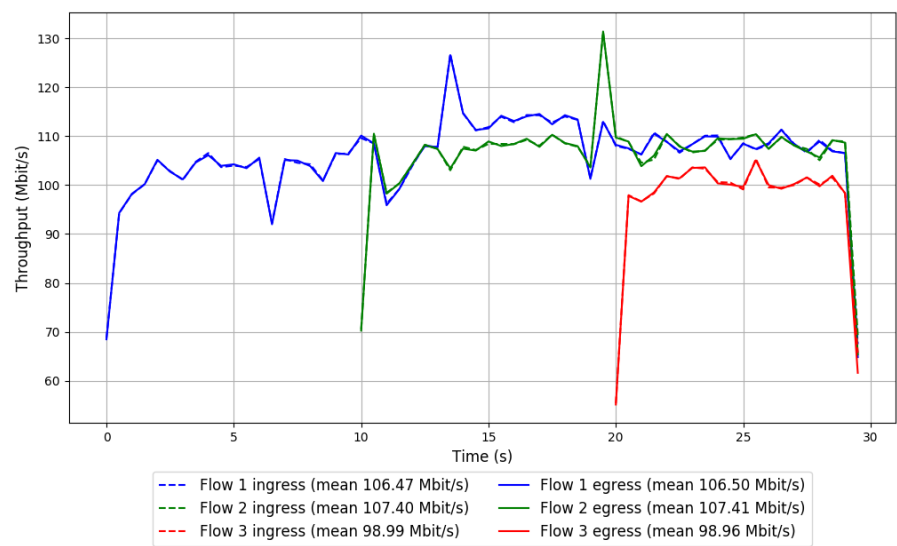


Run 8: Statistics of Indigo-calib

Start at: 2017-11-30 20:15:26
End at: 2017-11-30 20:15:56
Local clock offset: 0.053 ms
Remote clock offset: -0.927 ms

Below is generated by plot.py at 2017-12-01 02:30:12
Datalink statistics
-- Total of 3 flows:
Average throughput: 210.01 Mbit/s
95th percentile per-packet one-way delay: 1.093 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 106.50 Mbit/s
95th percentile per-packet one-way delay: 1.076 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 107.41 Mbit/s
95th percentile per-packet one-way delay: 1.083 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 98.96 Mbit/s
95th percentile per-packet one-way delay: 1.170 ms
Loss rate: 0.21%

Run 8: Report of Indigo-calib — Data Link

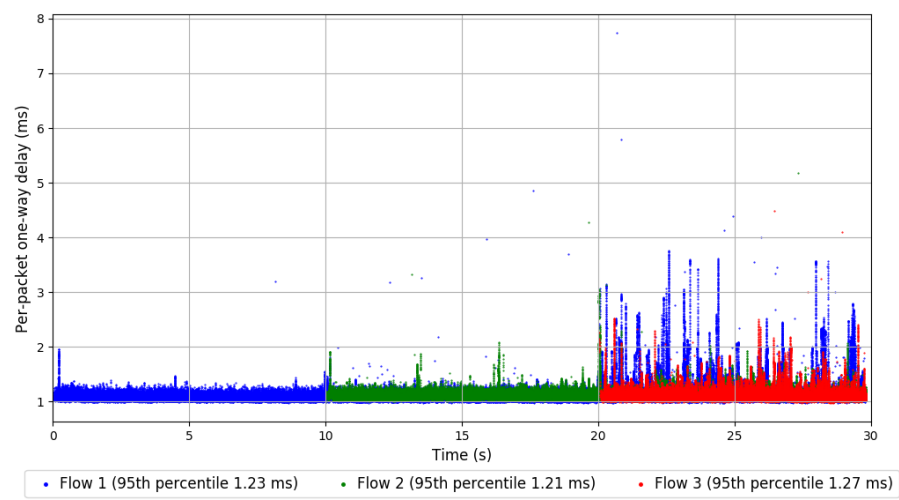
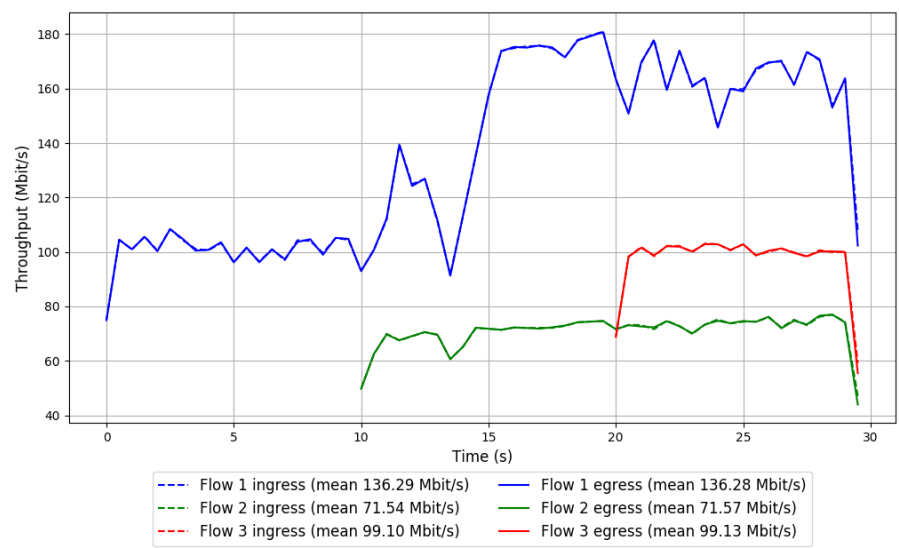


Run 9: Statistics of Indigo-calib

Start at: 2017-11-30 20:36:01
End at: 2017-11-30 20:36:31
Local clock offset: 0.196 ms
Remote clock offset: -0.999 ms

Below is generated by plot.py at 2017-12-01 02:30:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 216.25 Mbit/s
95th percentile per-packet one-way delay: 1.229 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 136.28 Mbit/s
95th percentile per-packet one-way delay: 1.227 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 71.57 Mbit/s
95th percentile per-packet one-way delay: 1.211 ms
Loss rate: 0.12%
-- Flow 3:
Average throughput: 99.13 Mbit/s
95th percentile per-packet one-way delay: 1.273 ms
Loss rate: 0.21%

Run 9: Report of Indigo-calib — Data Link



Run 10: Statistics of Indigo-calib

Start at: 2017-11-30 20:56:32
End at: 2017-11-30 20:57:02
Local clock offset: -0.013 ms
Remote clock offset: -0.794 ms

Below is generated by plot.py at 2017-12-01 02:30:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 245.35 Mbit/s
95th percentile per-packet one-way delay: 1.170 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 121.85 Mbit/s
95th percentile per-packet one-way delay: 1.147 ms
Loss rate: 0.09%
-- Flow 2:
Average throughput: 136.28 Mbit/s
95th percentile per-packet one-way delay: 1.216 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 101.59 Mbit/s
95th percentile per-packet one-way delay: 1.182 ms
Loss rate: 0.17%

Run 10: Report of Indigo-calib — Data Link

