

Pantheon Report

Generated at 2018-03-07 00:16:46 (UTC).

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

Repeated the test of 17 congestion control schemes 10 times.

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

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

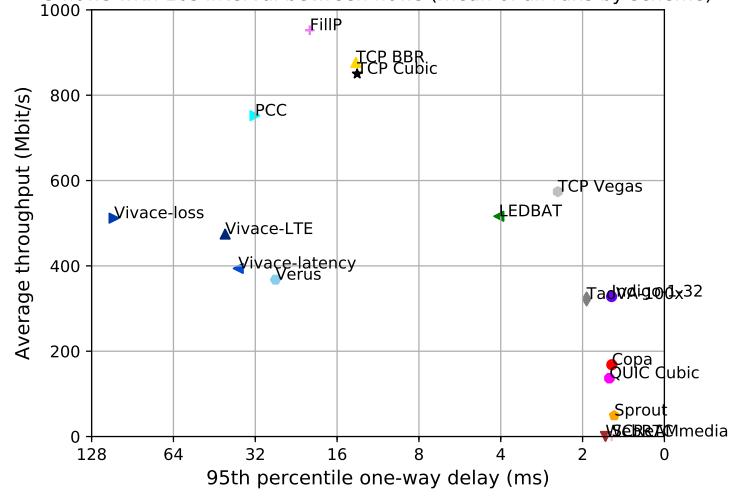
Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo_fast**).

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

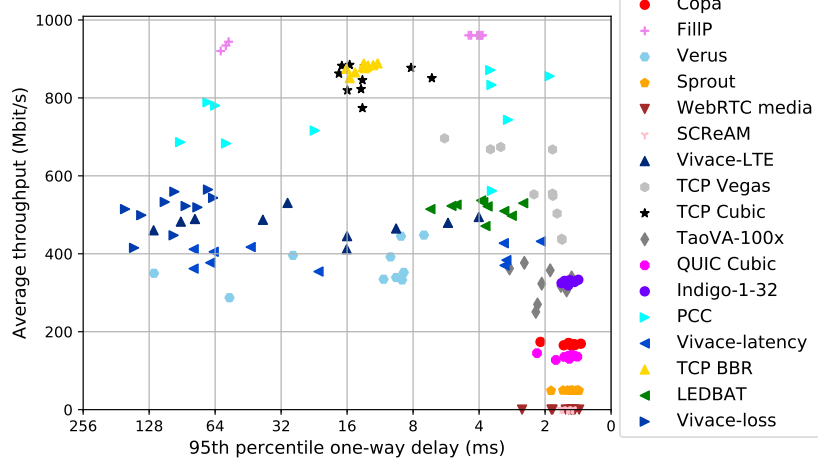
Git summary:

```
branch: master @ f12c42a2c63fdd9a862eefa0468859bf379b6623
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
M datagrump/sender.cc
third_party/fillp @ 828bbf95fd4941149b5cec90f281d1c69ae1a5c6
third_party/genericCC @ 9249eea3238475c4d8cca1443d28df70bff6c4a2
third_party/indigo @ a9b2060d39e4da2e8987e893e3eca2a6c7cd0ab9
third_party/indigo-1-layer-128-unit @ 3ae9e4ef4230db7484501f82ce8b377695f2f66d
third_party/indigo-1-layer-32-unit @ 2601c92e4aa9d58d38dc4dfe0ecd90c077e64d
third_party/indigo-1-layer-32-unit-no-calib @ 1f3a7f75b41135ed5b540c0fd3505939528e2a5f
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ fb1053193c2861da659ba9013db26744ccfcf993
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ 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/vivace @ 7a4ba531e75b4a6f66f5c4580192120401784ce3
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	513.97	386.41	320.42	14.96	10.86	5.05	0.05	0.09	0.25
TCP Cubic	10	483.53	382.62	338.31	14.33	5.95	4.42	0.05	0.10	0.23
LEDBAT	10	294.08	241.59	186.26	3.90	4.61	2.76	0.05	0.10	0.28
PCC	10	544.02	217.10	194.56	40.13	3.00	3.04	1.91	0.18	0.26
QUIC Cubic	10	73.07	66.59	58.57	1.34	1.36	1.28	0.07	0.09	0.19
SCReAM	10	0.22	0.22	0.22	1.29	1.28	1.29	0.03	0.04	0.28
WebRTC media	10	0.05	0.05	0.05	1.38	1.43	1.44	0.02	0.97	0.01
Sprout	10	24.75	24.74	24.57	1.23	1.22	1.22	0.11	0.10	0.27
TaoVA-100x	10	182.72	157.09	106.80	1.83	1.97	2.01	0.11	0.21	0.45
TCP Vegas	10	302.41	285.59	246.26	1.95	2.69	2.29	0.06	0.08	0.19
Verus	10	220.03	160.79	126.13	13.40	46.69	4.42	0.32	1.95	0.73
Copa	10	86.84	84.28	76.89	1.27	1.29	1.33	0.04	0.06	0.16
FillP	10	581.45	401.12	315.67	20.25	4.45	4.46	1.02	0.10	0.24
Indigo-1-32	10	176.48	162.45	133.83	1.21	1.47	1.30	0.06	0.10	0.18
Vivace-latency	10	271.60	146.58	76.44	68.59	1.75	1.42	0.57	0.08	0.27
Vivace-loss	10	319.48	211.77	157.74	127.80	21.42	11.81	3.93	0.68	0.72
Vivace-LTE	10	302.21	186.69	147.44	67.75	18.40	1.81	1.17	0.20	0.18

Run 1: Statistics of TCP BBR

Start at: 2018-03-06 12:12:48

End at: 2018-03-06 12:13:18

Local clock offset: -3.792 ms

Remote clock offset: 5.649 ms

Below is generated by plot.py at 2018-03-06 22:09:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 888.26 Mbit/s

95th percentile per-packet one-way delay: 13.433 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 523.17 Mbit/s

95th percentile per-packet one-way delay: 13.895 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 388.09 Mbit/s

95th percentile per-packet one-way delay: 5.434 ms

Loss rate: 0.00%

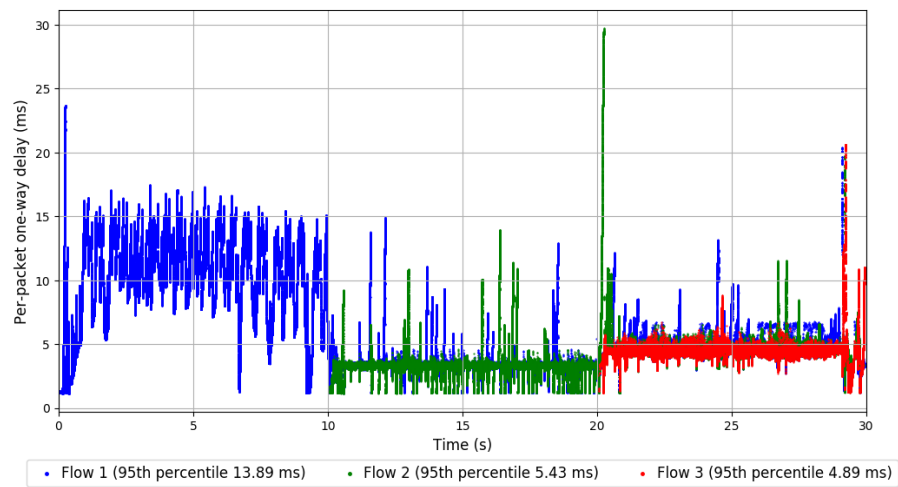
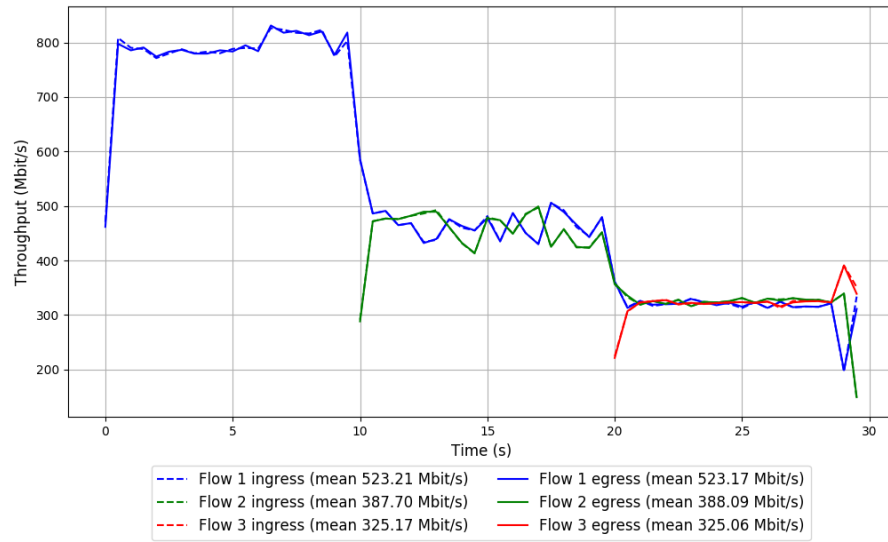
-- Flow 3:

Average throughput: 325.06 Mbit/s

95th percentile per-packet one-way delay: 4.887 ms

Loss rate: 0.24%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-03-06 12:42:26

End at: 2018-03-06 12:42:56

Local clock offset: -4.764 ms

Remote clock offset: 6.028 ms

Below is generated by plot.py at 2018-03-06 22:09:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 865.70 Mbit/s

95th percentile per-packet one-way delay: 14.722 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 505.65 Mbit/s

95th percentile per-packet one-way delay: 23.188 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 383.14 Mbit/s

95th percentile per-packet one-way delay: 8.295 ms

Loss rate: 0.10%

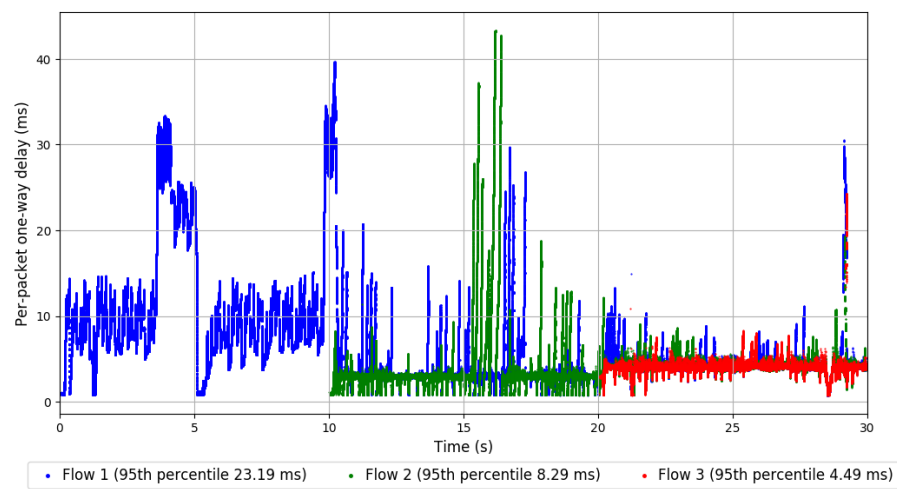
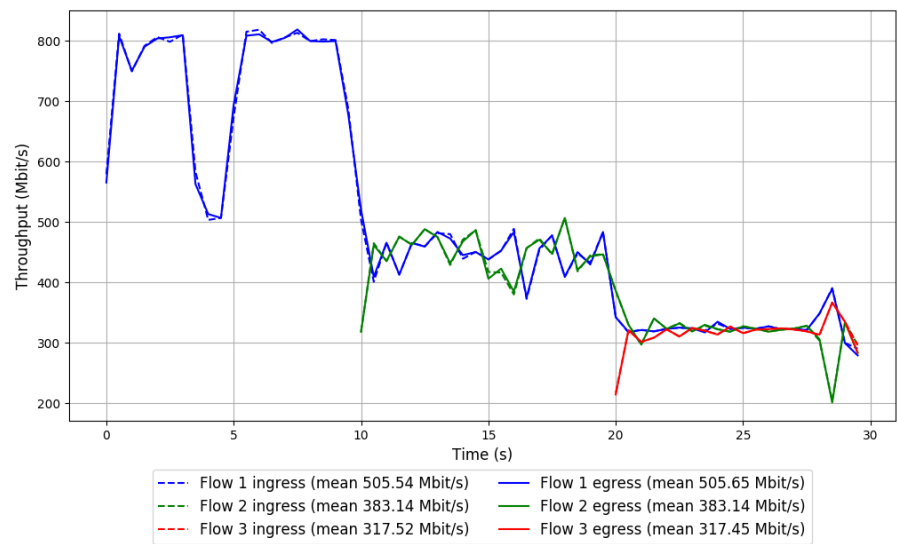
-- Flow 3:

Average throughput: 317.45 Mbit/s

95th percentile per-packet one-way delay: 4.488 ms

Loss rate: 0.24%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-03-06 13:11:45

End at: 2018-03-06 13:12:15

Local clock offset: -4.768 ms

Remote clock offset: 4.555 ms

Below is generated by plot.py at 2018-03-06 22:09:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 884.28 Mbit/s

95th percentile per-packet one-way delay: 12.174 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 526.60 Mbit/s

95th percentile per-packet one-way delay: 12.360 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 380.27 Mbit/s

95th percentile per-packet one-way delay: 10.152 ms

Loss rate: 0.11%

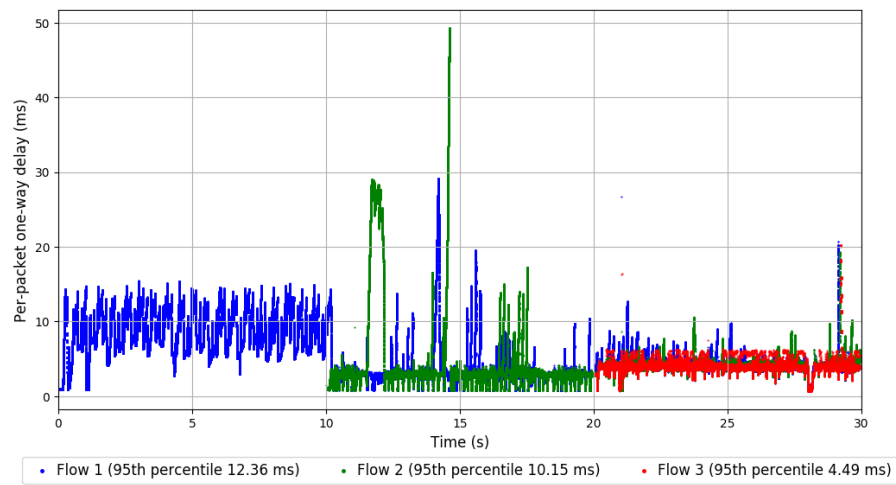
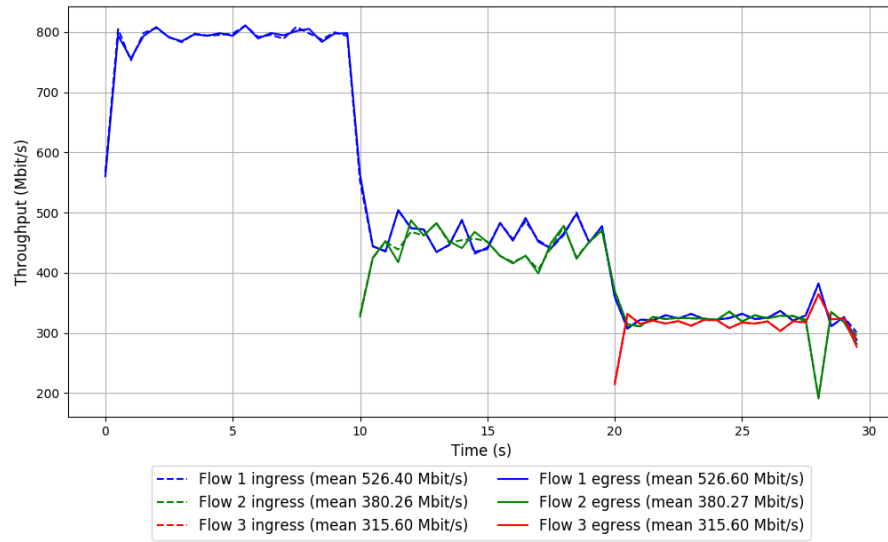
-- Flow 3:

Average throughput: 315.60 Mbit/s

95th percentile per-packet one-way delay: 4.487 ms

Loss rate: 0.24%

Run 3: Report of TCP BBR — Data Link

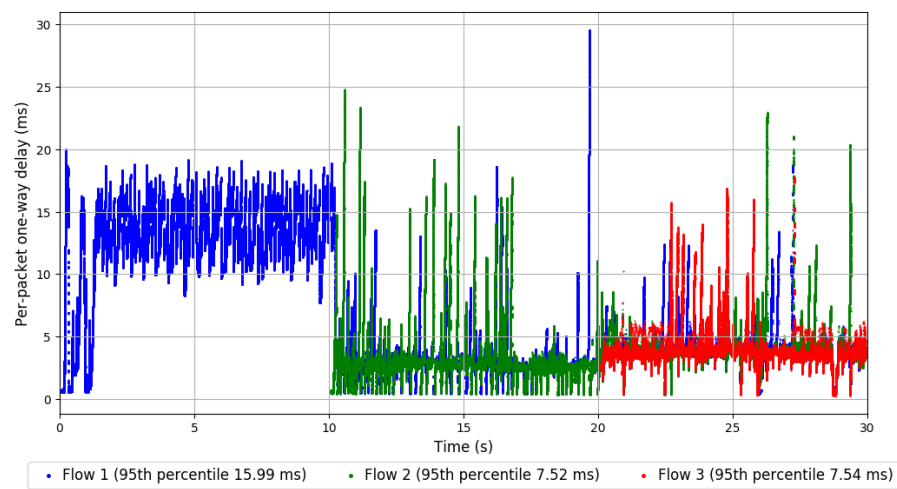
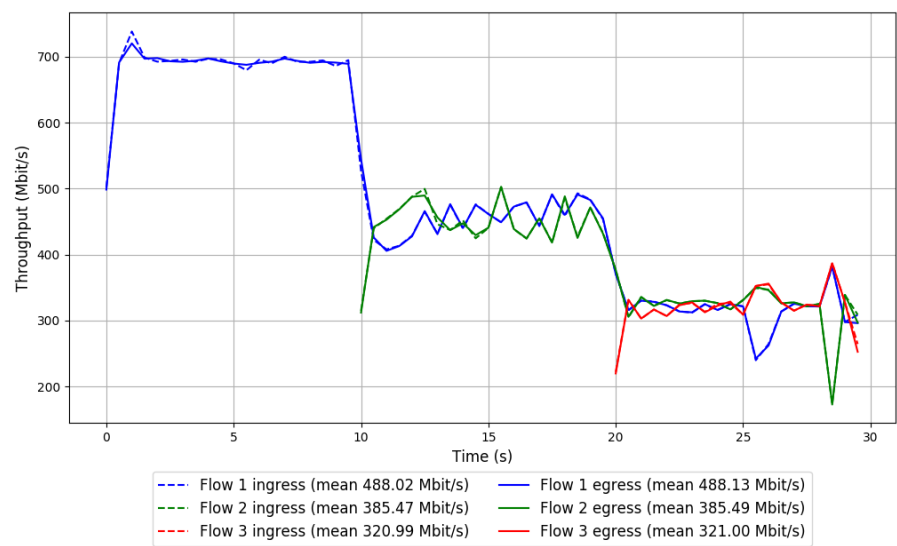


Run 4: Statistics of TCP BBR

Start at: 2018-03-06 13:40:55
End at: 2018-03-06 13:41:25
Local clock offset: -1.981 ms
Remote clock offset: -0.742 ms

Below is generated by plot.py at 2018-03-06 22:09:34
Datalink statistics
-- Total of 3 flows:
Average throughput: 850.90 Mbit/s
95th percentile per-packet one-way delay: 15.573 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 488.13 Mbit/s
95th percentile per-packet one-way delay: 15.995 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 385.49 Mbit/s
95th percentile per-packet one-way delay: 7.523 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 321.00 Mbit/s
95th percentile per-packet one-way delay: 7.535 ms
Loss rate: 0.22%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-03-06 14:10:32

End at: 2018-03-06 14:11:02

Local clock offset: 4.183 ms

Remote clock offset: 0.512 ms

Below is generated by plot.py at 2018-03-06 22:09:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 876.49 Mbit/s

95th percentile per-packet one-way delay: 13.308 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 513.49 Mbit/s

95th percentile per-packet one-way delay: 13.992 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 383.80 Mbit/s

95th percentile per-packet one-way delay: 7.456 ms

Loss rate: 0.12%

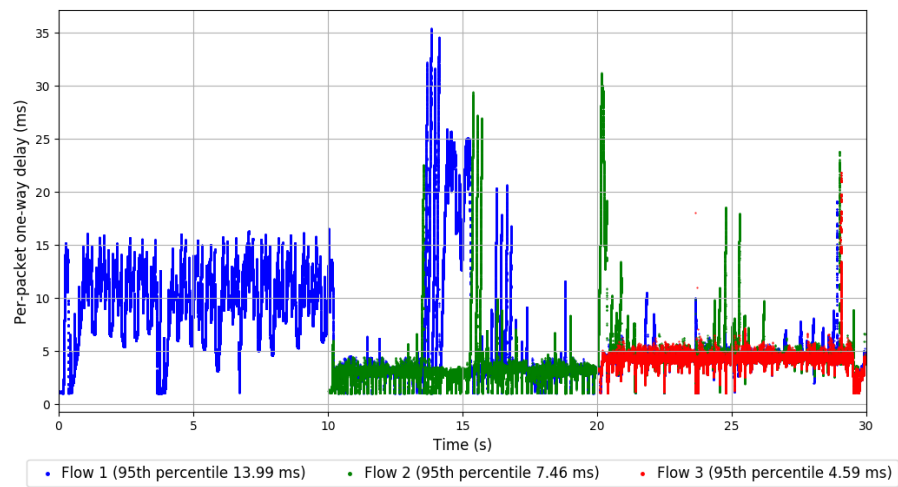
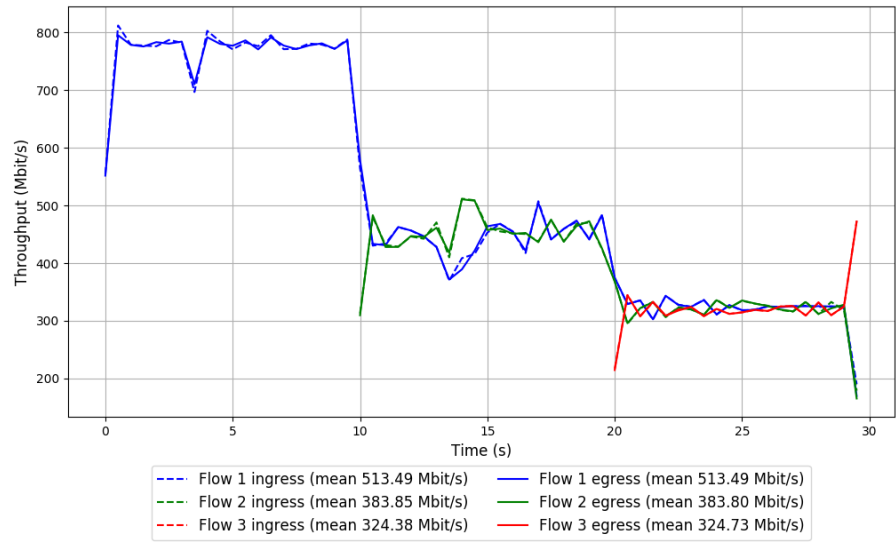
-- Flow 3:

Average throughput: 324.73 Mbit/s

95th percentile per-packet one-way delay: 4.593 ms

Loss rate: 0.05%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-03-06 14:39:58

End at: 2018-03-06 14:40:28

Local clock offset: 5.106 ms

Remote clock offset: 1.915 ms

Below is generated by plot.py at 2018-03-06 22:09:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 882.90 Mbit/s

95th percentile per-packet one-way delay: 12.855 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 521.04 Mbit/s

95th percentile per-packet one-way delay: 12.612 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 385.86 Mbit/s

95th percentile per-packet one-way delay: 22.385 ms

Loss rate: 0.09%

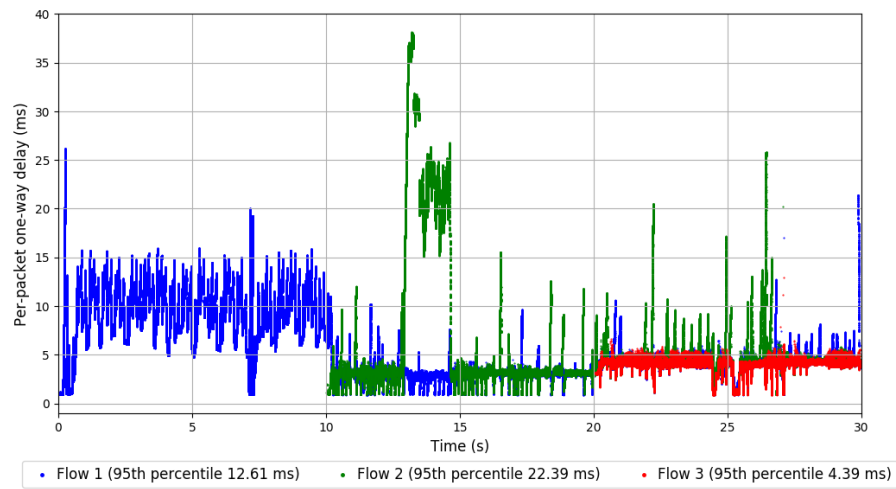
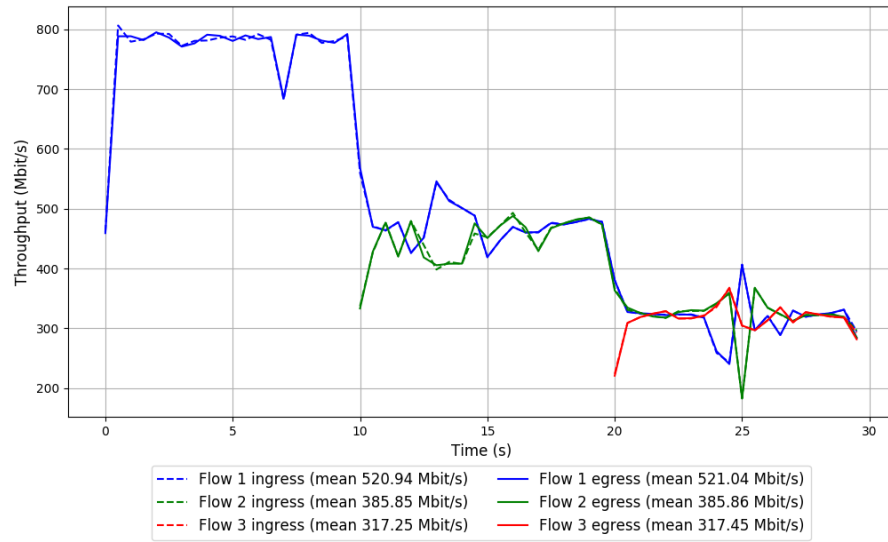
-- Flow 3:

Average throughput: 317.45 Mbit/s

95th percentile per-packet one-way delay: 4.395 ms

Loss rate: 0.23%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-03-06 15:14:33

End at: 2018-03-06 15:15:03

Local clock offset: 0.764 ms

Remote clock offset: 2.297 ms

Below is generated by plot.py at 2018-03-06 22:09:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 879.28 Mbit/s

95th percentile per-packet one-way delay: 13.564 ms

Loss rate: 0.11%

-- Flow 1:

Average throughput: 519.57 Mbit/s

95th percentile per-packet one-way delay: 13.733 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 380.77 Mbit/s

95th percentile per-packet one-way delay: 9.853 ms

Loss rate: 0.13%

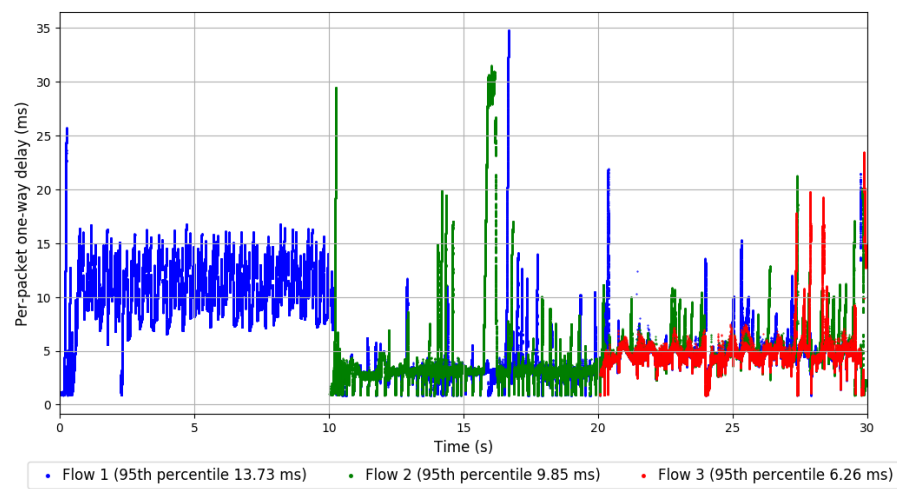
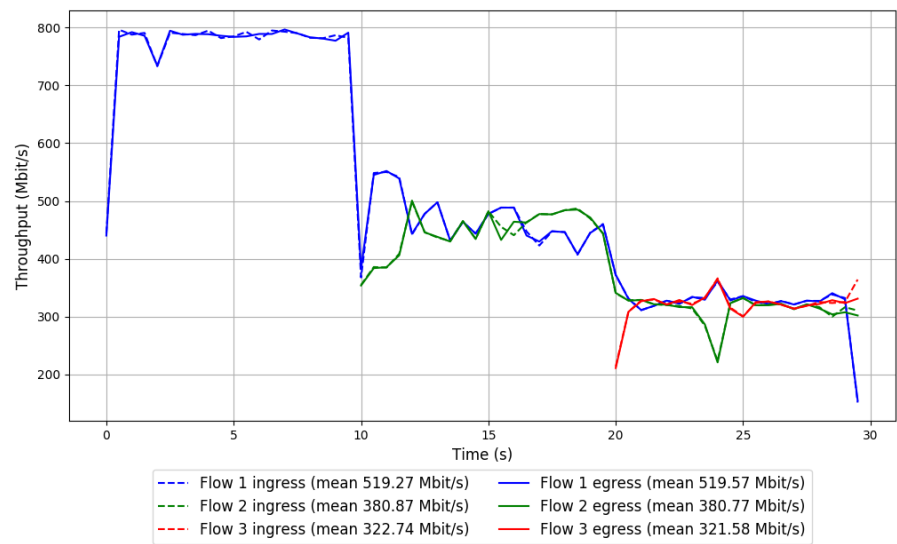
-- Flow 3:

Average throughput: 321.58 Mbit/s

95th percentile per-packet one-way delay: 6.256 ms

Loss rate: 0.58%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-03-06 15:43:32

End at: 2018-03-06 15:44:02

Local clock offset: 0.591 ms

Remote clock offset: 2.296 ms

Below is generated by plot.py at 2018-03-06 22:09:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 888.91 Mbit/s

95th percentile per-packet one-way delay: 11.617 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 522.05 Mbit/s

95th percentile per-packet one-way delay: 11.771 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 393.60 Mbit/s

95th percentile per-packet one-way delay: 11.739 ms

Loss rate: 0.09%

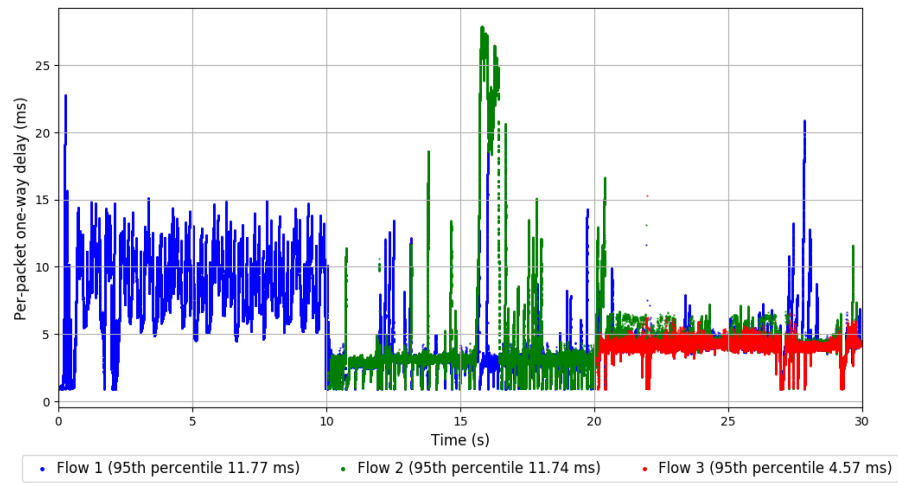
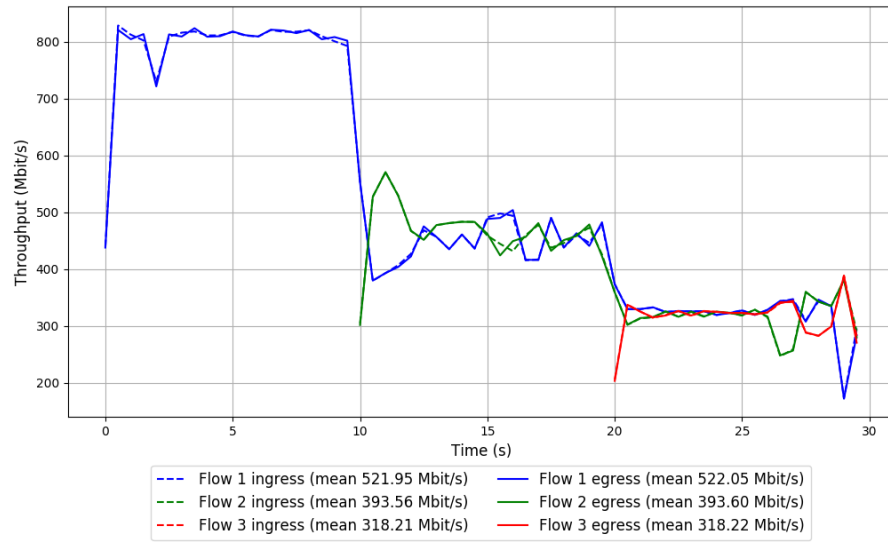
-- Flow 3:

Average throughput: 318.22 Mbit/s

95th percentile per-packet one-way delay: 4.572 ms

Loss rate: 0.24%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-03-06 16:12:44

End at: 2018-03-06 16:13:14

Local clock offset: -1.45 ms

Remote clock offset: 1.794 ms

Below is generated by plot.py at 2018-03-06 22:21:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 874.96 Mbit/s

95th percentile per-packet one-way delay: 16.122 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 506.88 Mbit/s

95th percentile per-packet one-way delay: 17.843 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 391.50 Mbit/s

95th percentile per-packet one-way delay: 17.780 ms

Loss rate: 0.09%

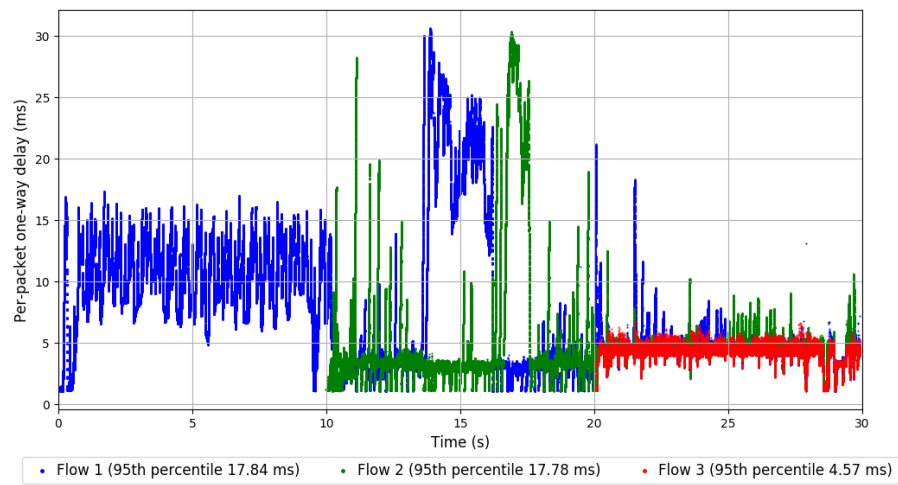
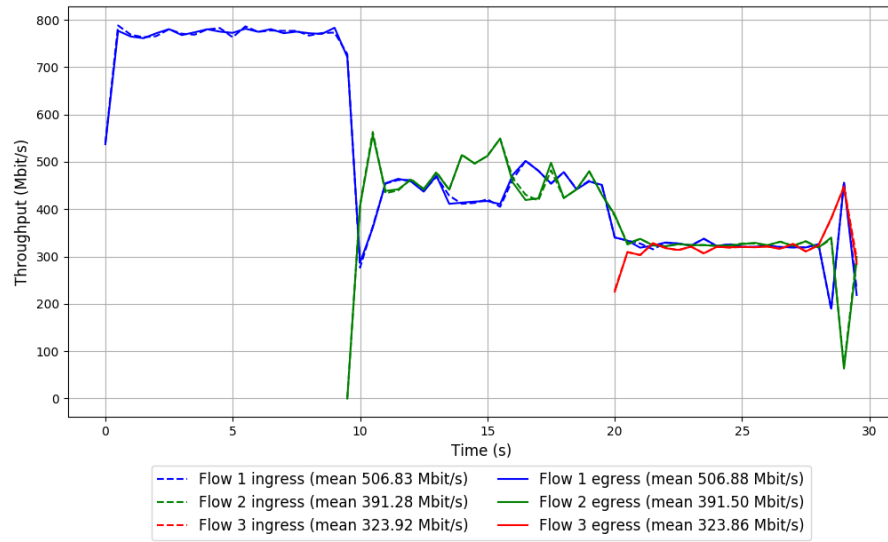
-- Flow 3:

Average throughput: 323.86 Mbit/s

95th percentile per-packet one-way delay: 4.567 ms

Loss rate: 0.24%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-03-06 16:41:49

End at: 2018-03-06 16:42:19

Local clock offset: -5.929 ms

Remote clock offset: 1.924 ms

Below is generated by plot.py at 2018-03-06 22:21:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 879.26 Mbit/s

95th percentile per-packet one-way delay: 13.077 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 513.14 Mbit/s

95th percentile per-packet one-way delay: 14.192 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 391.58 Mbit/s

95th percentile per-packet one-way delay: 7.966 ms

Loss rate: 0.09%

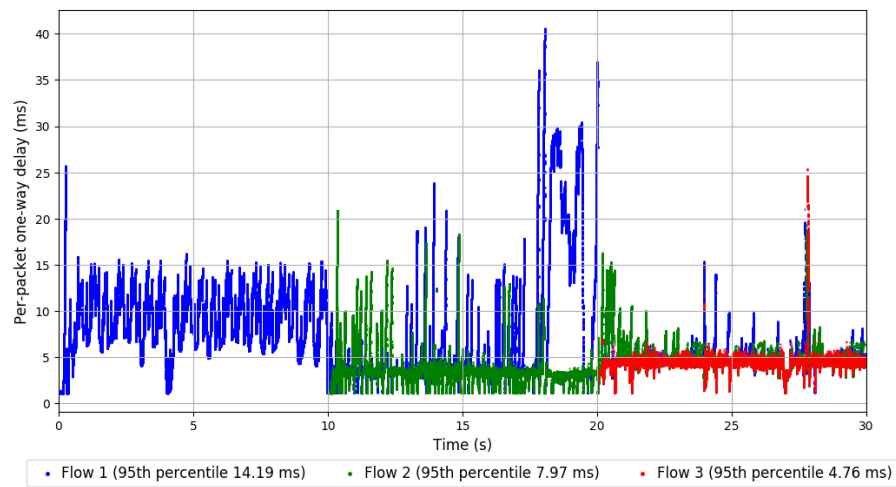
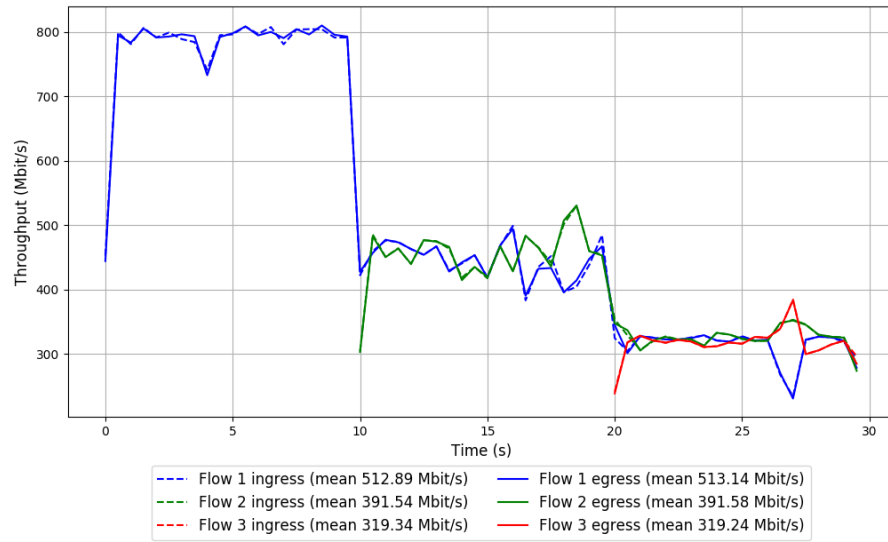
-- Flow 3:

Average throughput: 319.24 Mbit/s

95th percentile per-packet one-way delay: 4.757 ms

Loss rate: 0.23%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-03-06 11:46:33

End at: 2018-03-06 11:47:03

Local clock offset: 4.819 ms

Remote clock offset: 4.365 ms

Below is generated by plot.py at 2018-03-06 22:21:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 845.76 Mbit/s

95th percentile per-packet one-way delay: 13.622 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 480.73 Mbit/s

95th percentile per-packet one-way delay: 14.615 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 389.48 Mbit/s

95th percentile per-packet one-way delay: 4.266 ms

Loss rate: 0.09%

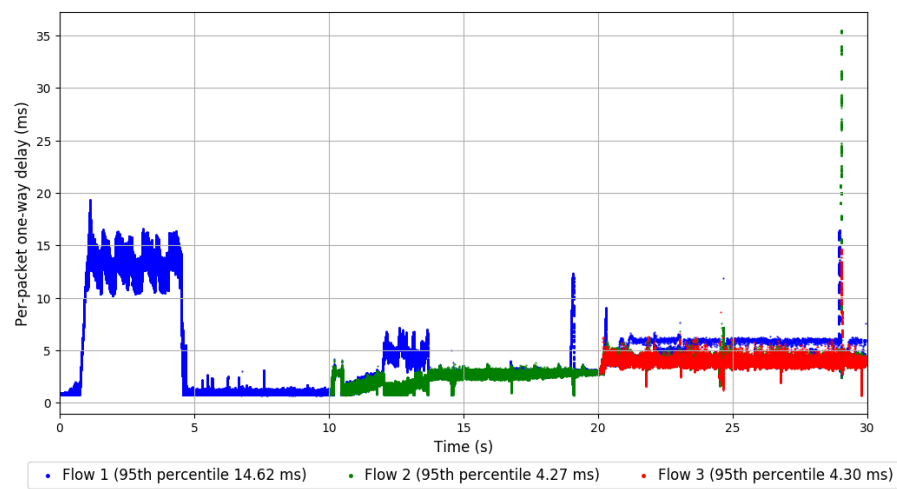
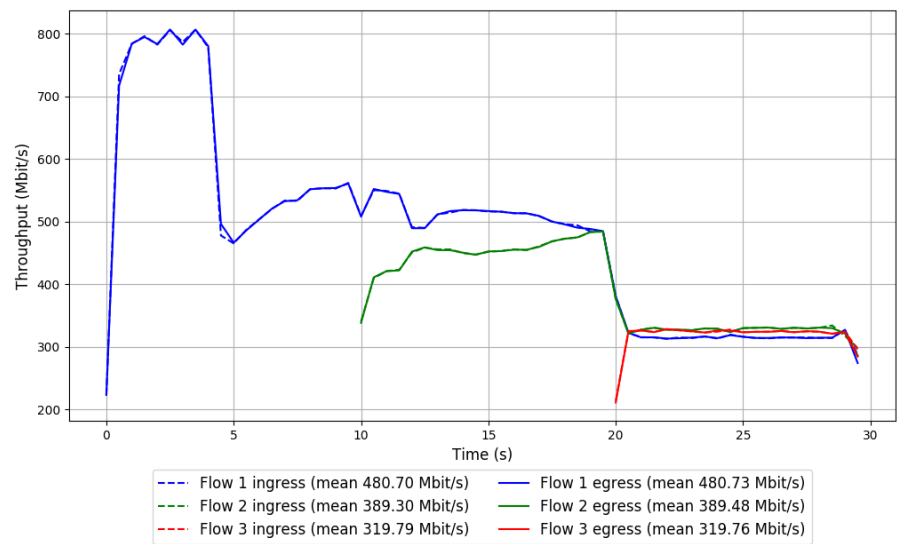
-- Flow 3:

Average throughput: 319.76 Mbit/s

95th percentile per-packet one-way delay: 4.299 ms

Loss rate: 0.23%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-03-06 12:16:19

End at: 2018-03-06 12:16:49

Local clock offset: -4.35 ms

Remote clock offset: 5.867 ms

Below is generated by plot.py at 2018-03-06 22:21:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 884.84 Mbit/s

95th percentile per-packet one-way delay: 15.583 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 521.14 Mbit/s

95th percentile per-packet one-way delay: 16.336 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 386.61 Mbit/s

95th percentile per-packet one-way delay: 4.540 ms

Loss rate: 0.10%

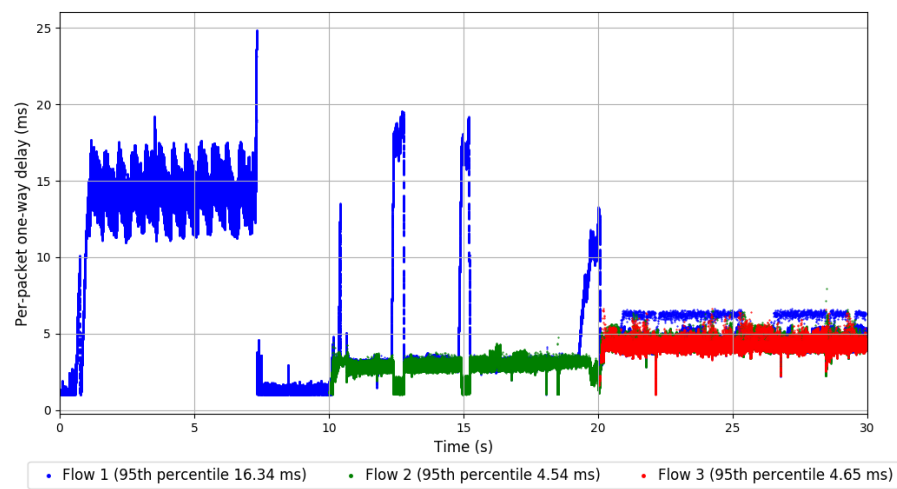
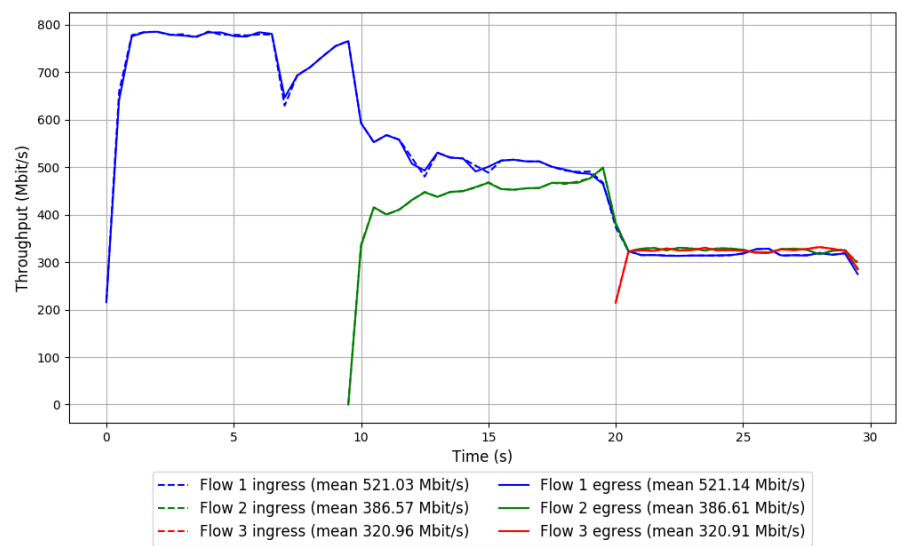
-- Flow 3:

Average throughput: 320.91 Mbit/s

95th percentile per-packet one-way delay: 4.653 ms

Loss rate: 0.24%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-03-06 12:45:56

End at: 2018-03-06 12:46:26

Local clock offset: -4.758 ms

Remote clock offset: 5.462 ms

Below is generated by plot.py at 2018-03-06 22:21:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 850.78 Mbit/s

95th percentile per-packet one-way delay: 6.569 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 486.35 Mbit/s

95th percentile per-packet one-way delay: 8.535 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 390.29 Mbit/s

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

Loss rate: 0.09%

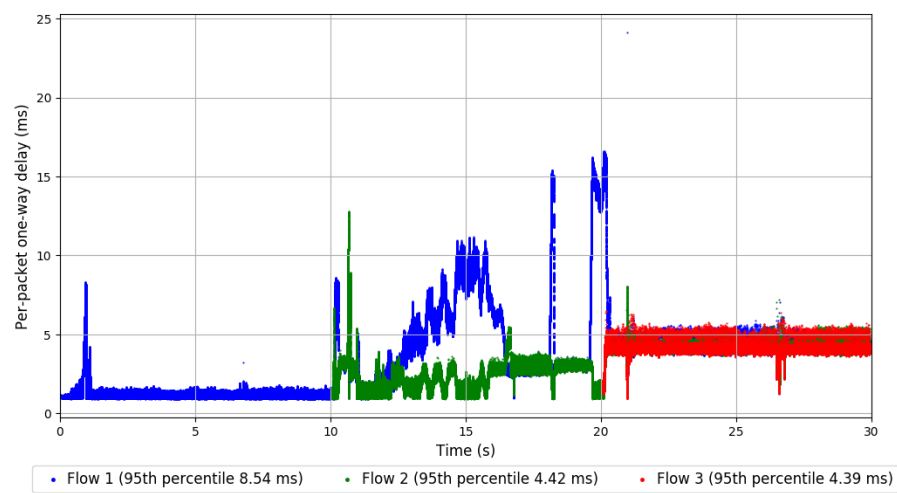
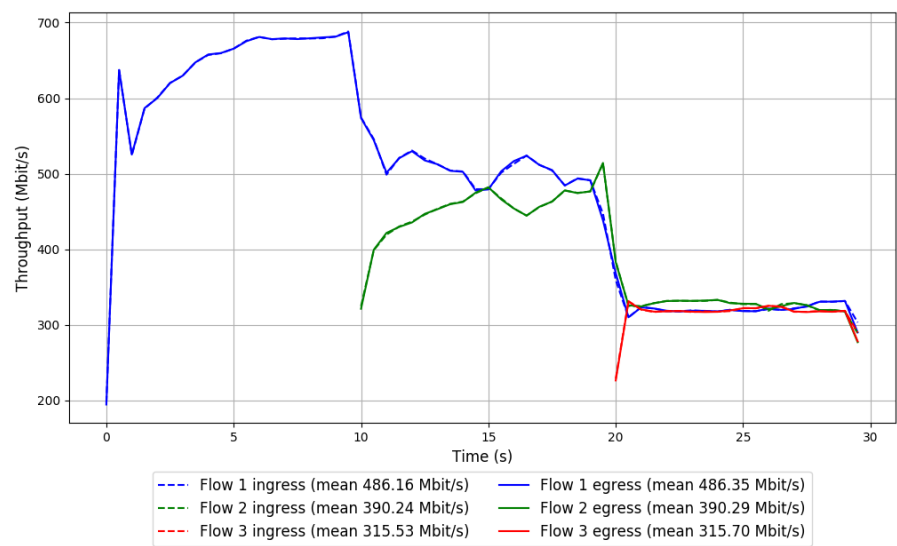
-- Flow 3:

Average throughput: 315.70 Mbit/s

95th percentile per-packet one-way delay: 4.391 ms

Loss rate: 0.24%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-03-06 13:15:17

End at: 2018-03-06 13:15:47

Local clock offset: -4.745 ms

Remote clock offset: 3.135 ms

Below is generated by plot.py at 2018-03-06 22:21:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 881.50 Mbit/s

95th percentile per-packet one-way delay: 13.320 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 508.16 Mbit/s

95th percentile per-packet one-way delay: 13.776 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 403.81 Mbit/s

95th percentile per-packet one-way delay: 4.190 ms

Loss rate: 0.09%

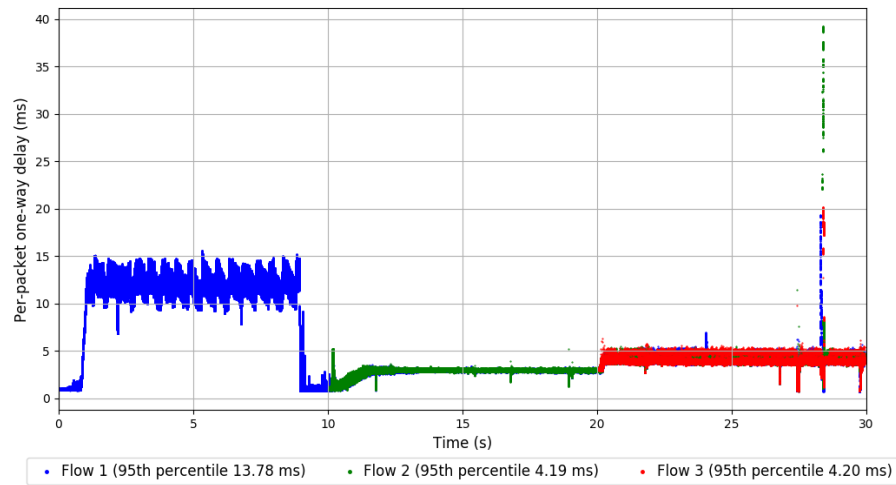
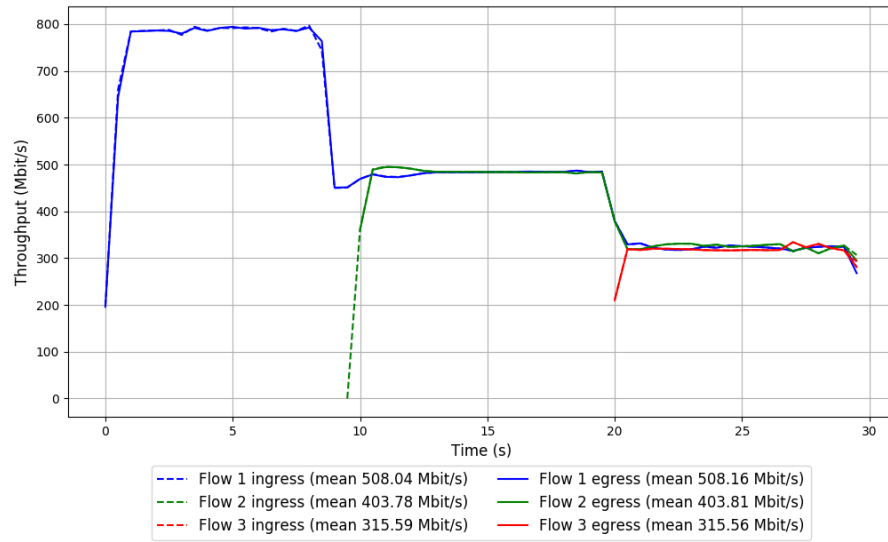
-- Flow 3:

Average throughput: 315.56 Mbit/s

95th percentile per-packet one-way delay: 4.202 ms

Loss rate: 0.23%

Run 4: Report of TCP Cubic — Data Link

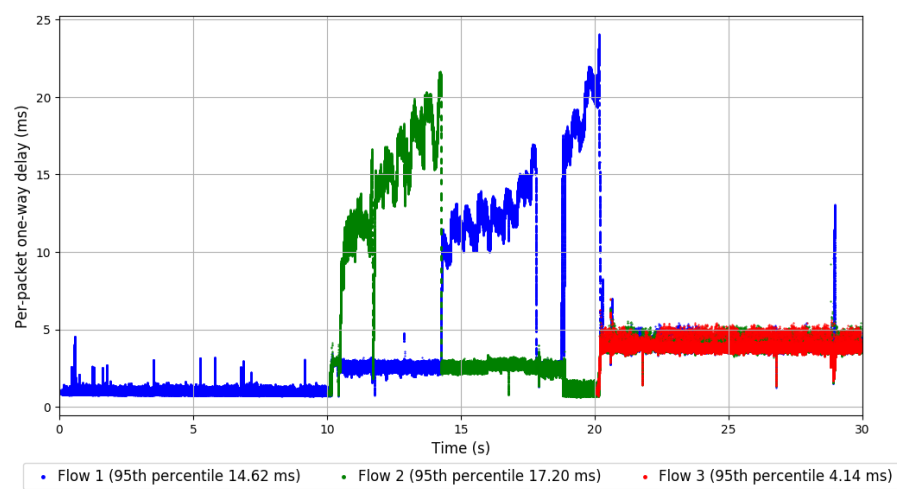
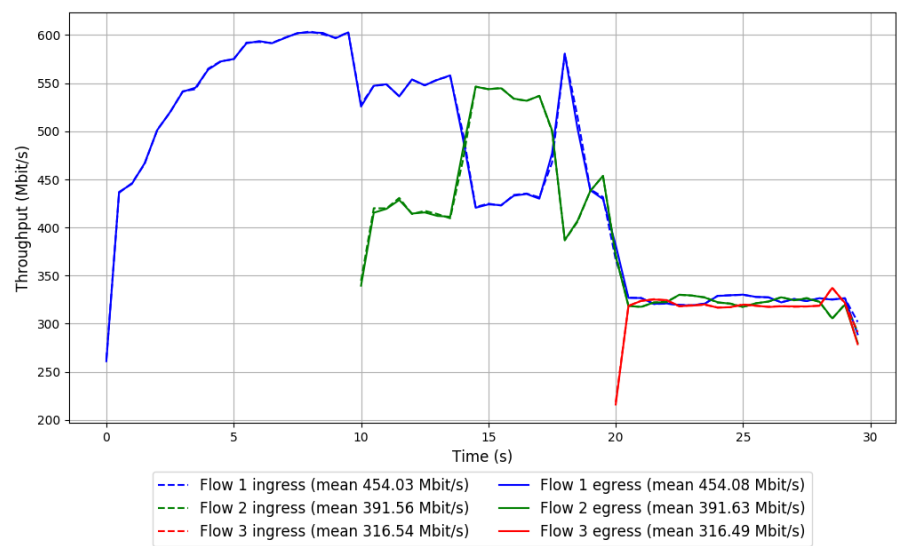


Run 5: Statistics of TCP Cubic

Start at: 2018-03-06 13:44:27
End at: 2018-03-06 13:44:57
Local clock offset: -0.473 ms
Remote clock offset: -1.042 ms

Below is generated by plot.py at 2018-03-06 22:21:41
Datalink statistics
-- Total of 3 flows:
Average throughput: 819.44 Mbit/s
95th percentile per-packet one-way delay: 15.951 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 454.08 Mbit/s
95th percentile per-packet one-way delay: 14.620 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 391.63 Mbit/s
95th percentile per-packet one-way delay: 17.205 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 316.49 Mbit/s
95th percentile per-packet one-way delay: 4.143 ms
Loss rate: 0.24%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-03-06 14:14:01

End at: 2018-03-06 14:14:31

Local clock offset: 3.982 ms

Remote clock offset: 0.544 ms

Below is generated by plot.py at 2018-03-06 22:21:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 774.01 Mbit/s

95th percentile per-packet one-way delay: 13.619 ms

Loss rate: 0.11%

-- Flow 1:

Average throughput: 402.47 Mbit/s

95th percentile per-packet one-way delay: 14.500 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 293.02 Mbit/s

95th percentile per-packet one-way delay: 4.300 ms

Loss rate: 0.13%

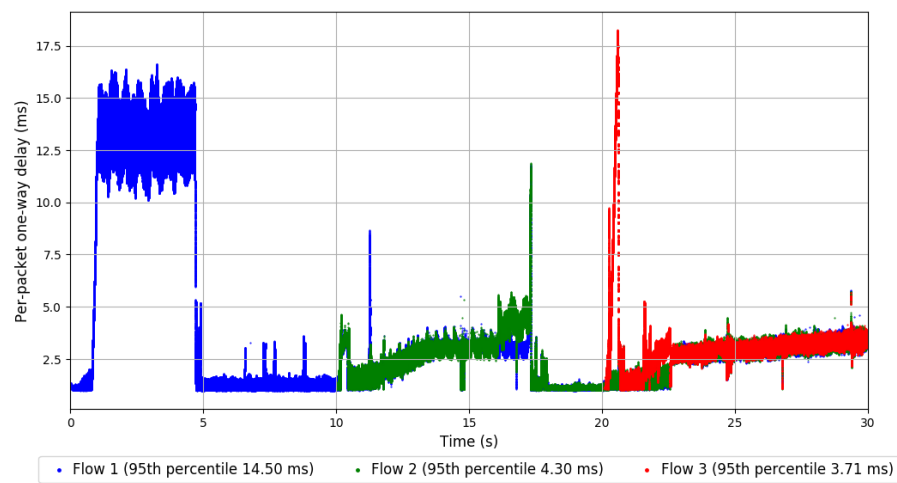
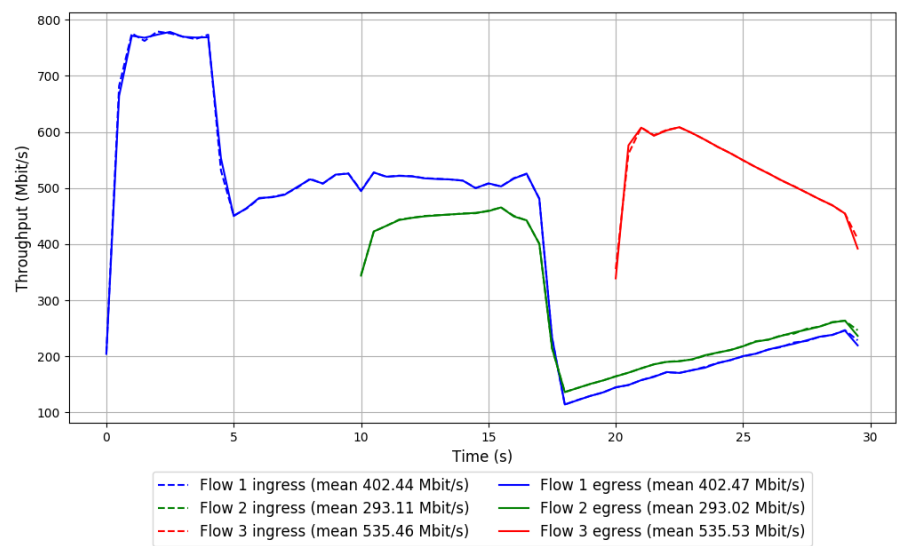
-- Flow 3:

Average throughput: 535.53 Mbit/s

95th percentile per-packet one-way delay: 3.705 ms

Loss rate: 0.19%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-03-06 14:43:26

End at: 2018-03-06 14:43:56

Local clock offset: 5.38 ms

Remote clock offset: 1.929 ms

Below is generated by plot.py at 2018-03-06 22:32:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 882.39 Mbit/s

95th percentile per-packet one-way delay: 16.914 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 519.37 Mbit/s

95th percentile per-packet one-way delay: 18.117 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 389.34 Mbit/s

95th percentile per-packet one-way delay: 4.781 ms

Loss rate: 0.10%

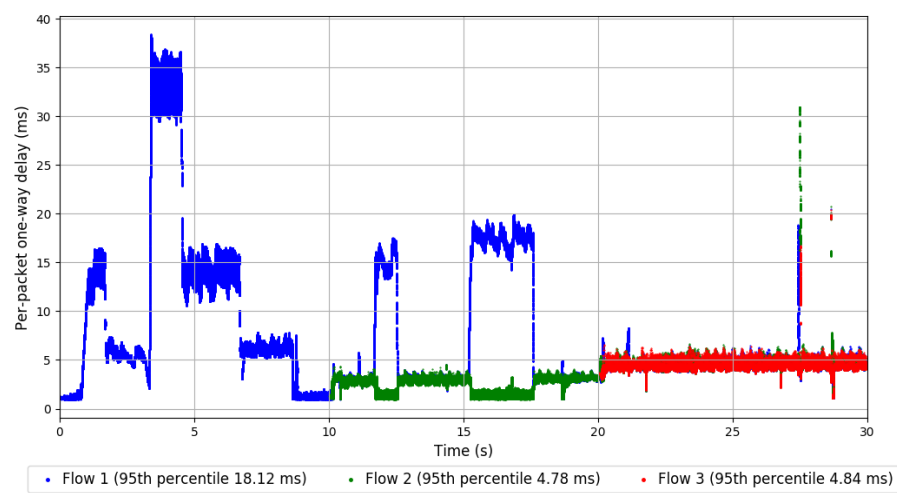
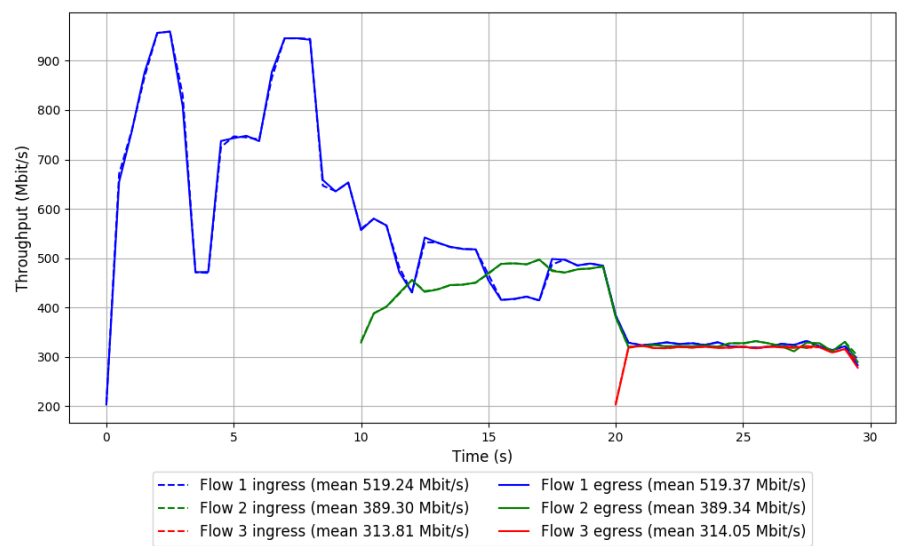
-- Flow 3:

Average throughput: 314.05 Mbit/s

95th percentile per-packet one-way delay: 4.837 ms

Loss rate: 0.24%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-03-06 15:18:02

End at: 2018-03-06 15:18:32

Local clock offset: 0.831 ms

Remote clock offset: 2.222 ms

Below is generated by plot.py at 2018-03-06 22:32:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 822.77 Mbit/s

95th percentile per-packet one-way delay: 13.820 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 442.81 Mbit/s

95th percentile per-packet one-way delay: 15.898 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 413.98 Mbit/s

95th percentile per-packet one-way delay: 6.791 ms

Loss rate: 0.09%

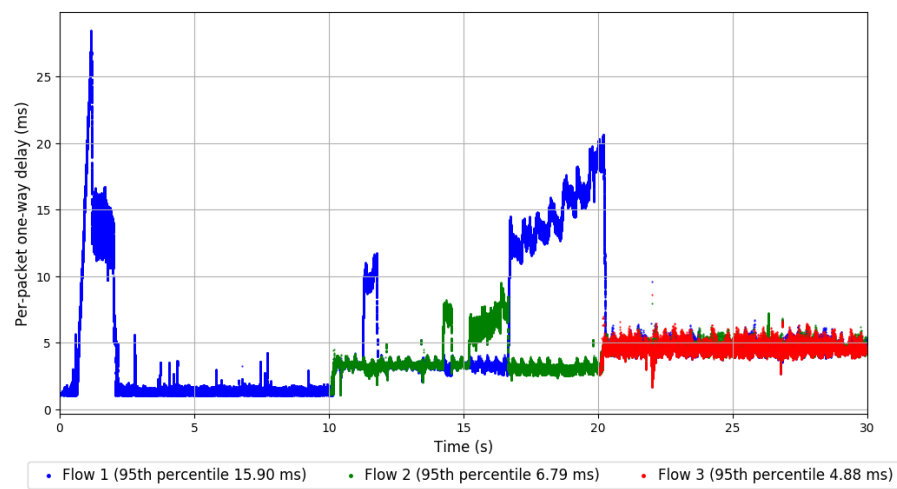
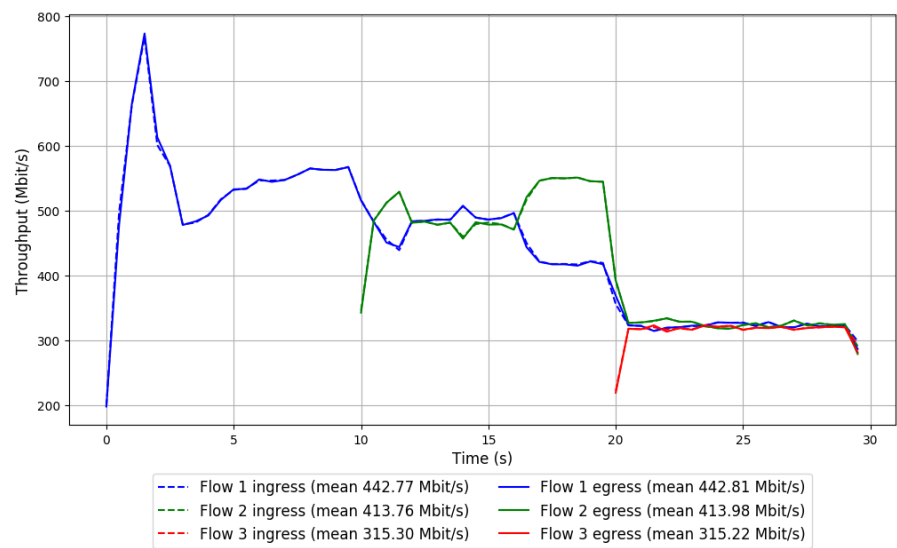
-- Flow 3:

Average throughput: 315.22 Mbit/s

95th percentile per-packet one-way delay: 4.885 ms

Loss rate: 0.24%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-03-06 15:47:01

End at: 2018-03-06 15:47:31

Local clock offset: 0.592 ms

Remote clock offset: 2.301 ms

Below is generated by plot.py at 2018-03-06 22:32:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 862.44 Mbit/s

95th percentile per-packet one-way delay: 17.428 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 497.72 Mbit/s

95th percentile per-packet one-way delay: 18.039 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 390.67 Mbit/s

95th percentile per-packet one-way delay: 4.481 ms

Loss rate: 0.10%

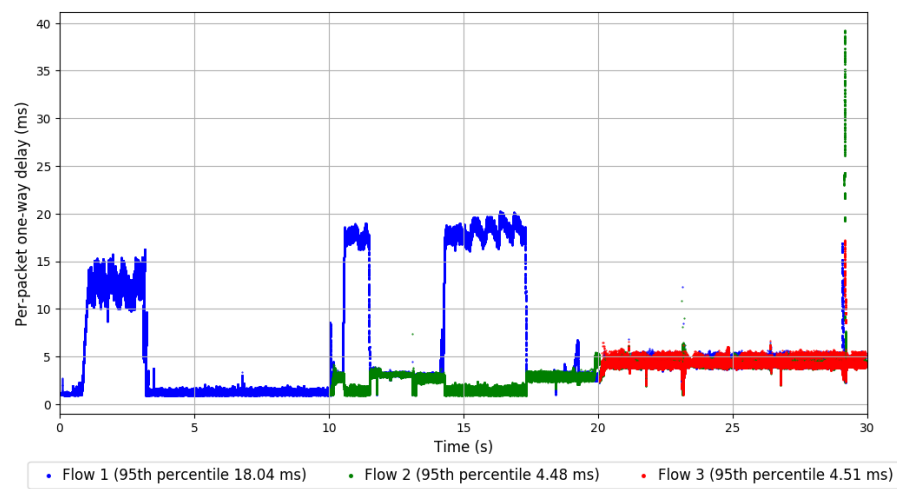
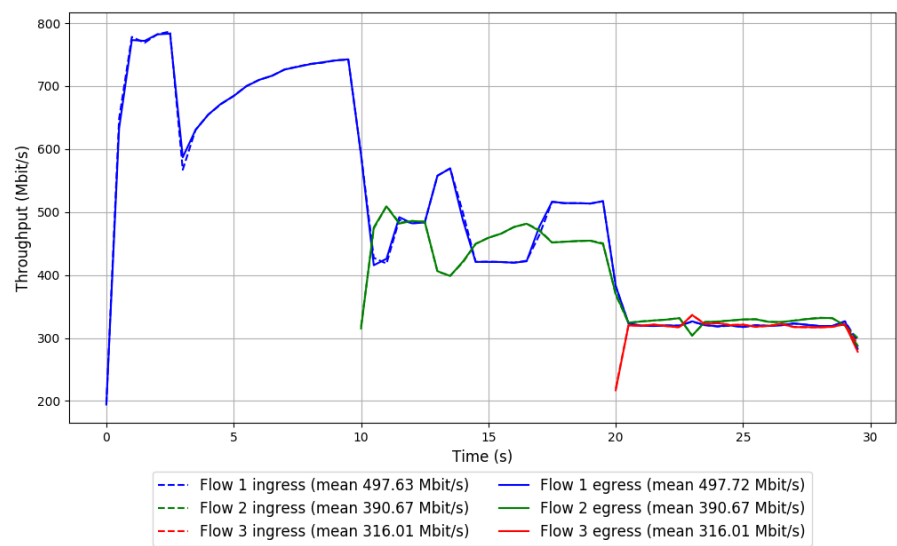
-- Flow 3:

Average throughput: 316.01 Mbit/s

95th percentile per-packet one-way delay: 4.515 ms

Loss rate: 0.23%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-03-06 16:16:13

End at: 2018-03-06 16:16:43

Local clock offset: -1.683 ms

Remote clock offset: 1.726 ms

Below is generated by plot.py at 2018-03-06 22:33:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 877.21 Mbit/s

95th percentile per-packet one-way delay: 8.173 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 522.45 Mbit/s

95th percentile per-packet one-way delay: 8.878 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 377.34 Mbit/s

95th percentile per-packet one-way delay: 4.514 ms

Loss rate: 0.10%

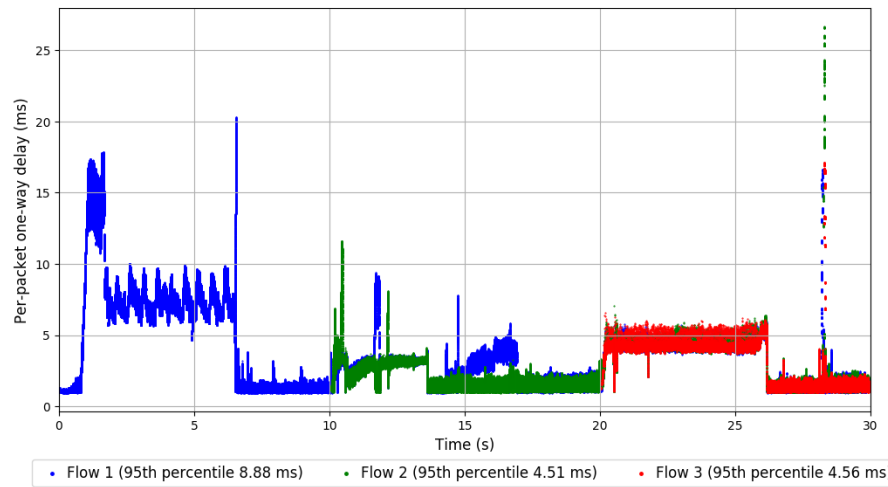
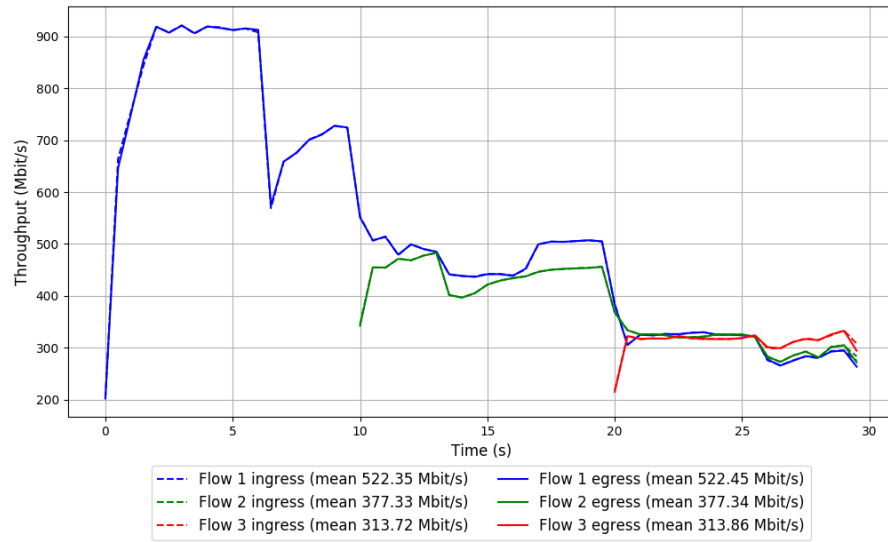
-- Flow 3:

Average throughput: 313.86 Mbit/s

95th percentile per-packet one-way delay: 4.557 ms

Loss rate: 0.23%

Run 10: Report of TCP Cubic — Data Link



Run 1: Statistics of LEDBAT

Start at: 2018-03-06 12:11:04

End at: 2018-03-06 12:11:34

Local clock offset: -3.579 ms

Remote clock offset: 5.611 ms

Below is generated by plot.py at 2018-03-06 22:33:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 532.36 Mbit/s

95th percentile per-packet one-way delay: 3.830 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 314.67 Mbit/s

95th percentile per-packet one-way delay: 3.570 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 236.60 Mbit/s

95th percentile per-packet one-way delay: 4.772 ms

Loss rate: 0.01%

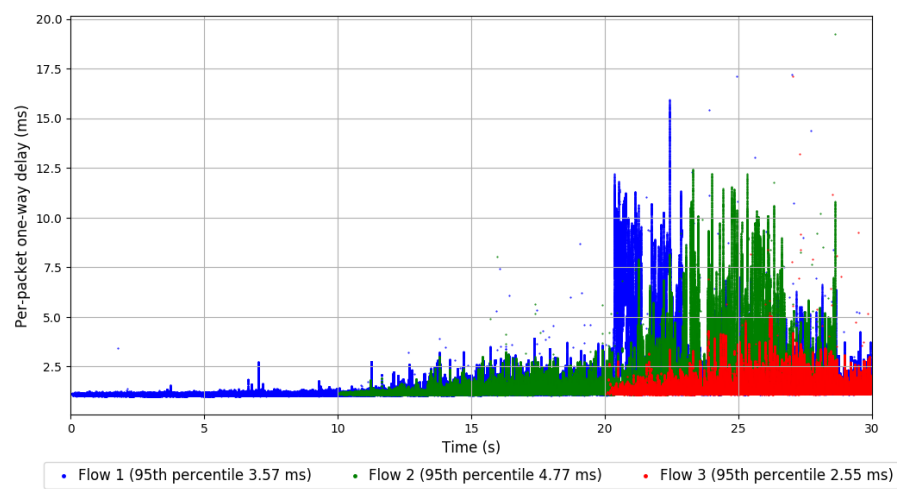
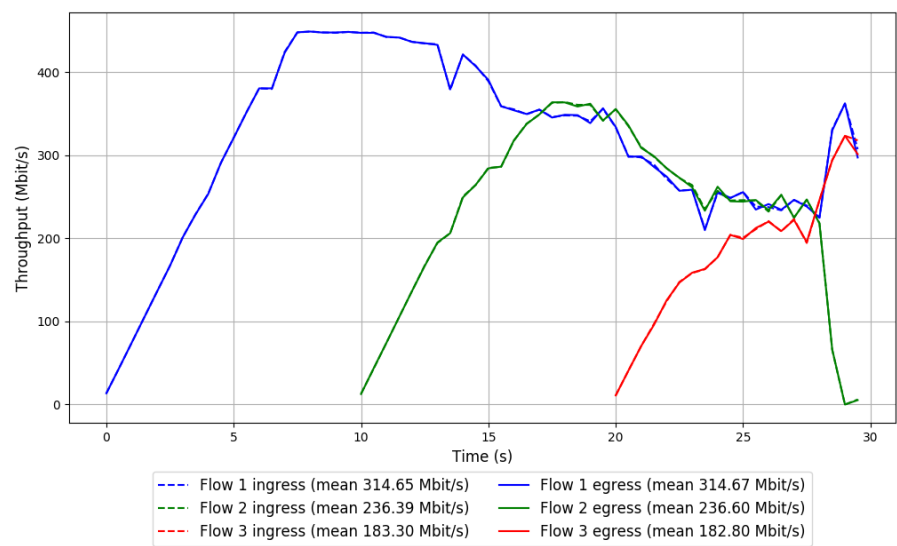
-- Flow 3:

Average throughput: 182.80 Mbit/s

95th percentile per-packet one-way delay: 2.550 ms

Loss rate: 0.46%

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2018-03-06 12:40:40

End at: 2018-03-06 12:41:10

Local clock offset: -4.749 ms

Remote clock offset: 6.309 ms

Below is generated by plot.py at 2018-03-06 22:33:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 525.98 Mbit/s

95th percentile per-packet one-way delay: 5.070 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 311.84 Mbit/s

95th percentile per-packet one-way delay: 6.726 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 226.97 Mbit/s

95th percentile per-packet one-way delay: 3.061 ms

Loss rate: 0.03%

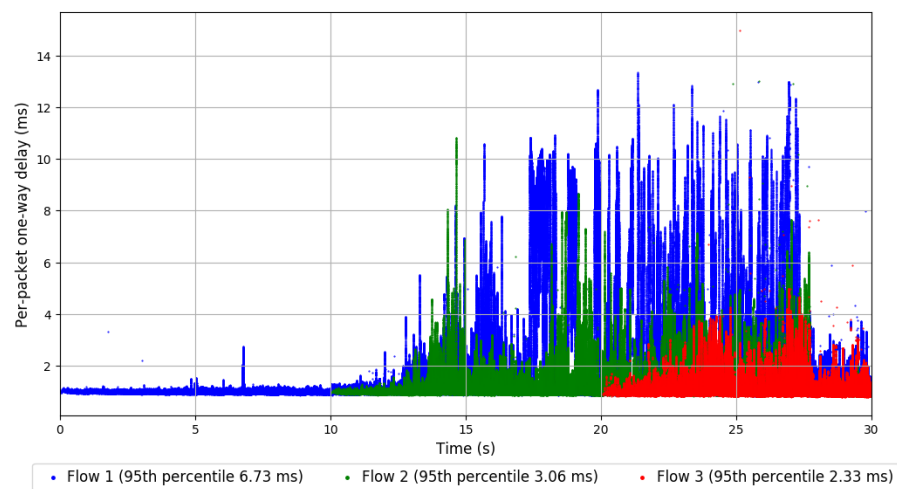
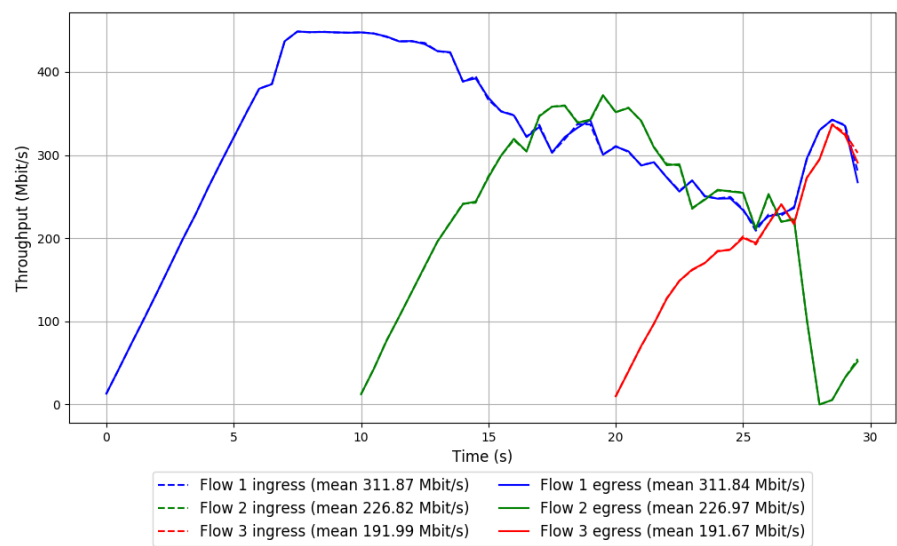
-- Flow 3:

Average throughput: 191.67 Mbit/s

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

Loss rate: 0.39%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-03-06 13:10:01

End at: 2018-03-06 13:10:31

Local clock offset: -4.702 ms

Remote clock offset: 4.488 ms

Below is generated by plot.py at 2018-03-06 22:33:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 509.64 Mbit/s

95th percentile per-packet one-way delay: 3.070 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 291.46 Mbit/s

95th percentile per-packet one-way delay: 2.472 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 237.19 Mbit/s

95th percentile per-packet one-way delay: 5.276 ms

Loss rate: 0.16%

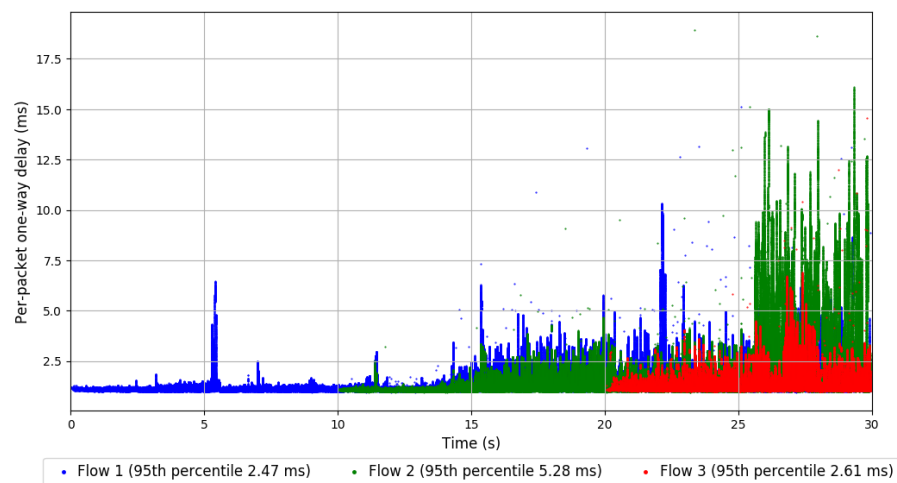
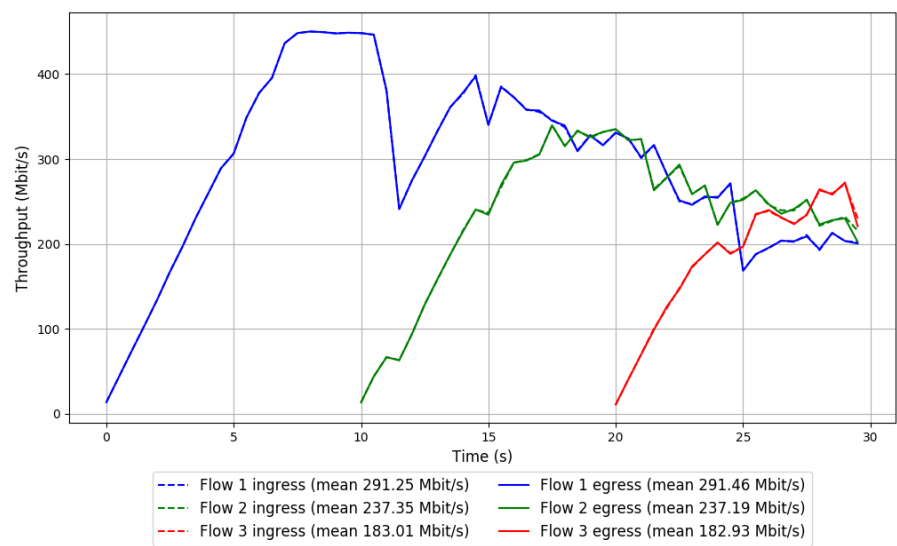
-- Flow 3:

Average throughput: 182.93 Mbit/s

95th percentile per-packet one-way delay: 2.608 ms

Loss rate: 0.26%

Run 3: Report of LEDBAT — Data Link

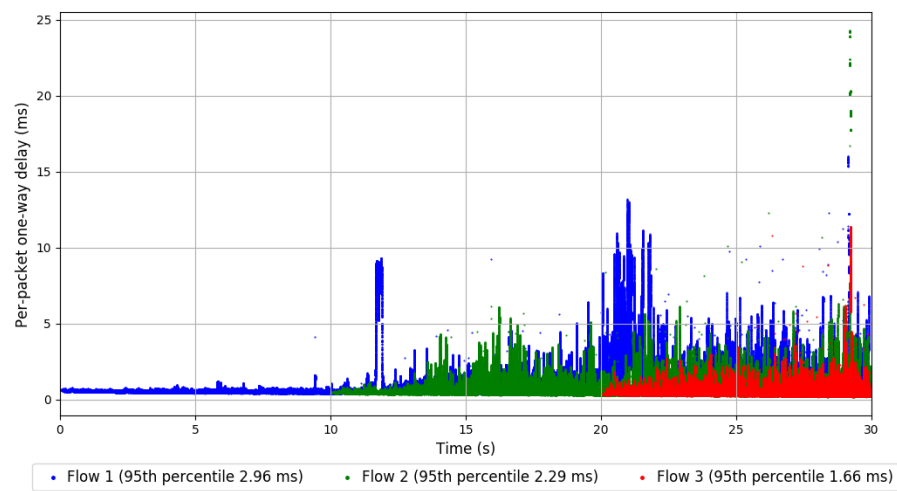
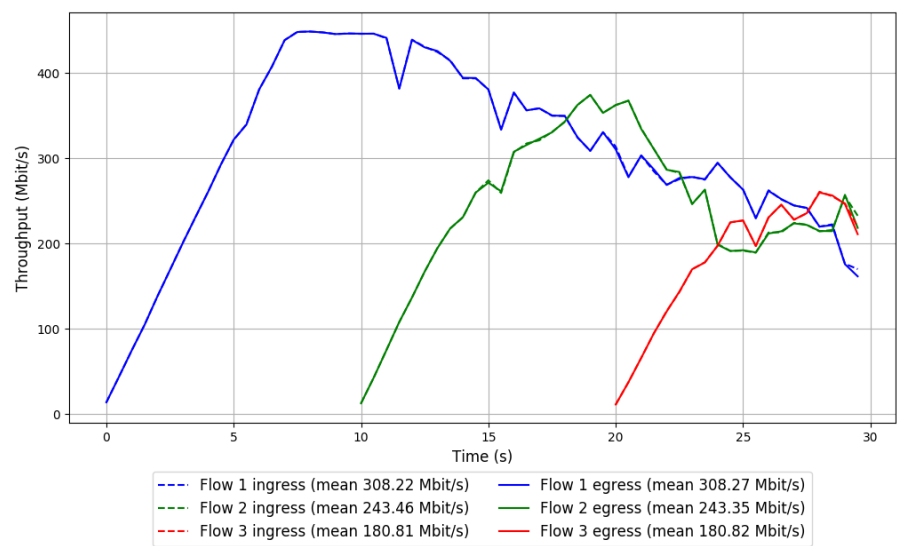


Run 4: Statistics of LEDBAT

Start at: 2018-03-06 13:39:10
End at: 2018-03-06 13:39:40
Local clock offset: -2.923 ms
Remote clock offset: -0.64 ms

```
# Below is generated by plot.py at 2018-03-06 22:33:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 529.85 Mbit/s
95th percentile per-packet one-way delay: 2.517 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 308.27 Mbit/s
95th percentile per-packet one-way delay: 2.962 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 243.35 Mbit/s
95th percentile per-packet one-way delay: 2.289 ms
Loss rate: 0.15%
-- Flow 3:
Average throughput: 180.82 Mbit/s
95th percentile per-packet one-way delay: 1.662 ms
Loss rate: 0.25%
```

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-03-06 14:08:49

End at: 2018-03-06 14:09:19

Local clock offset: 4.027 ms

Remote clock offset: 0.573 ms

Below is generated by plot.py at 2018-03-06 22:36:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 522.77 Mbit/s

95th percentile per-packet one-way delay: 5.349 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 300.14 Mbit/s

95th percentile per-packet one-way delay: 3.601 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 246.70 Mbit/s

95th percentile per-packet one-way delay: 7.286 ms

Loss rate: 0.10%

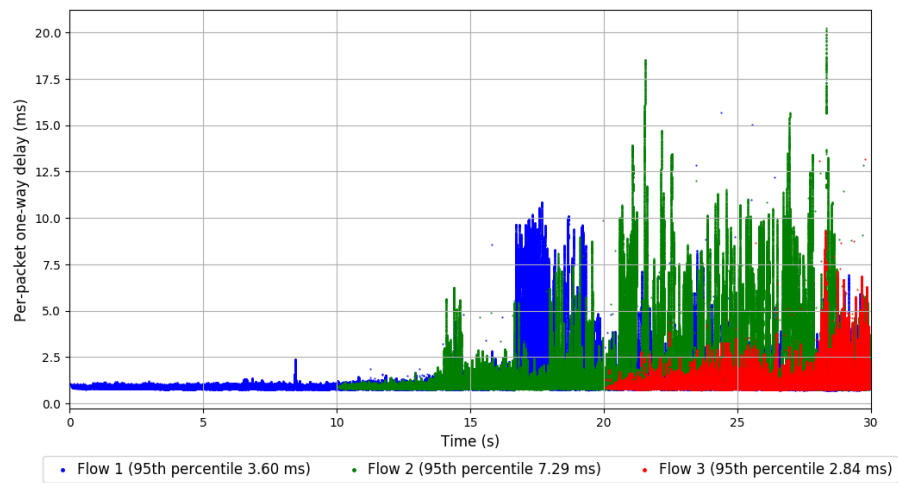
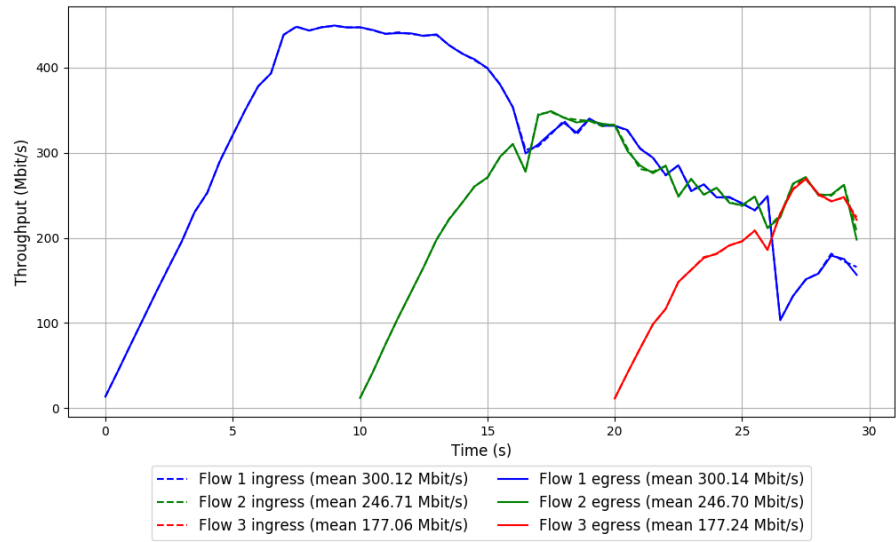
-- Flow 3:

Average throughput: 177.24 Mbit/s

95th percentile per-packet one-way delay: 2.838 ms

Loss rate: 0.10%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-03-06 14:38:15

End at: 2018-03-06 14:38:45

Local clock offset: 4.947 ms

Remote clock offset: 1.826 ms

Below is generated by plot.py at 2018-03-06 22:36:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 521.64 Mbit/s

95th percentile per-packet one-way delay: 3.659 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 299.11 Mbit/s

95th percentile per-packet one-way delay: 3.120 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 238.97 Mbit/s

95th percentile per-packet one-way delay: 4.693 ms

Loss rate: 0.10%

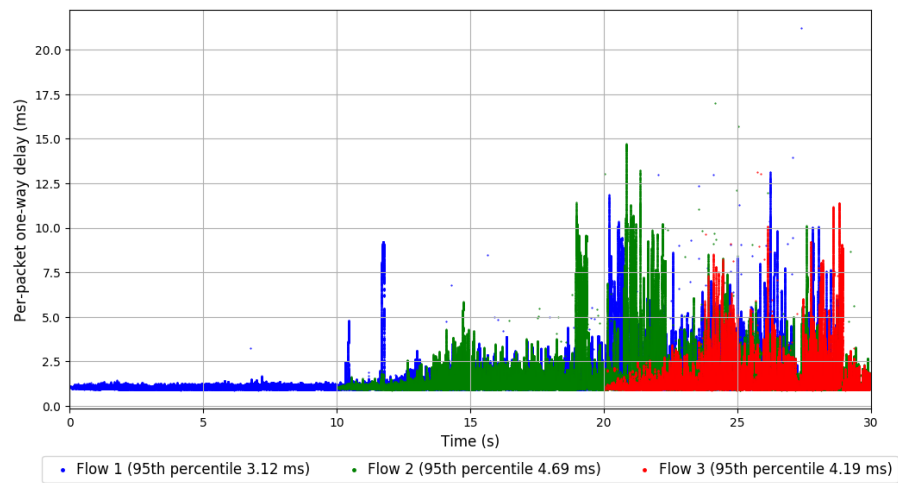
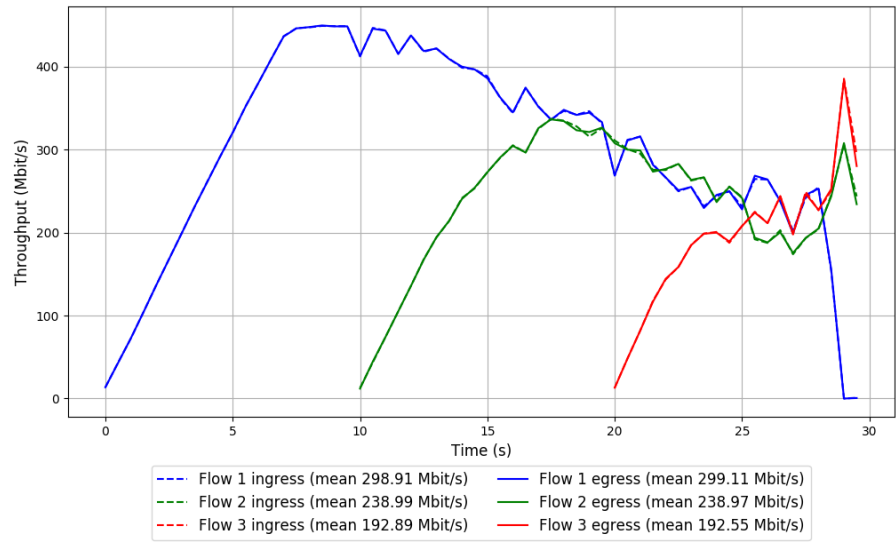
-- Flow 3:

Average throughput: 192.55 Mbit/s

95th percentile per-packet one-way delay: 4.193 ms

Loss rate: 0.41%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-03-06 15:12:47

End at: 2018-03-06 15:13:17

Local clock offset: 0.862 ms

Remote clock offset: 2.189 ms

Below is generated by plot.py at 2018-03-06 22:36:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 536.95 Mbit/s

95th percentile per-packet one-way delay: 3.914 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 319.93 Mbit/s

95th percentile per-packet one-way delay: 3.464 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 236.68 Mbit/s

95th percentile per-packet one-way delay: 5.287 ms

Loss rate: 0.14%

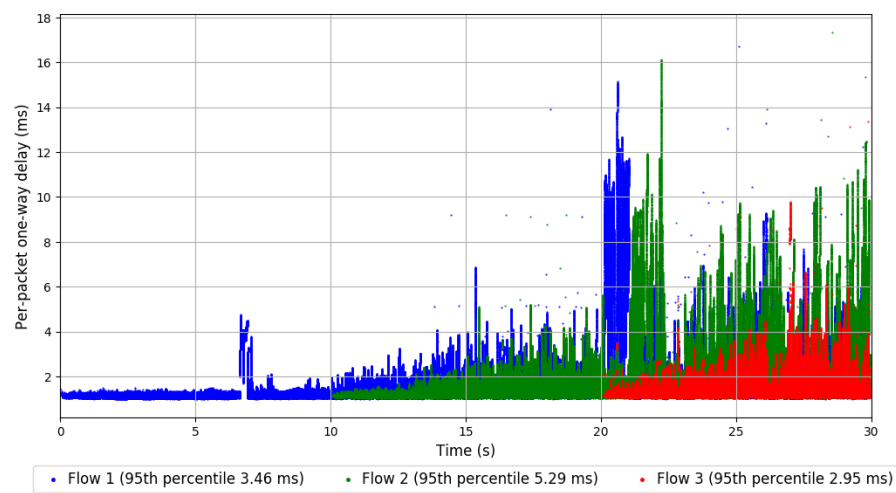
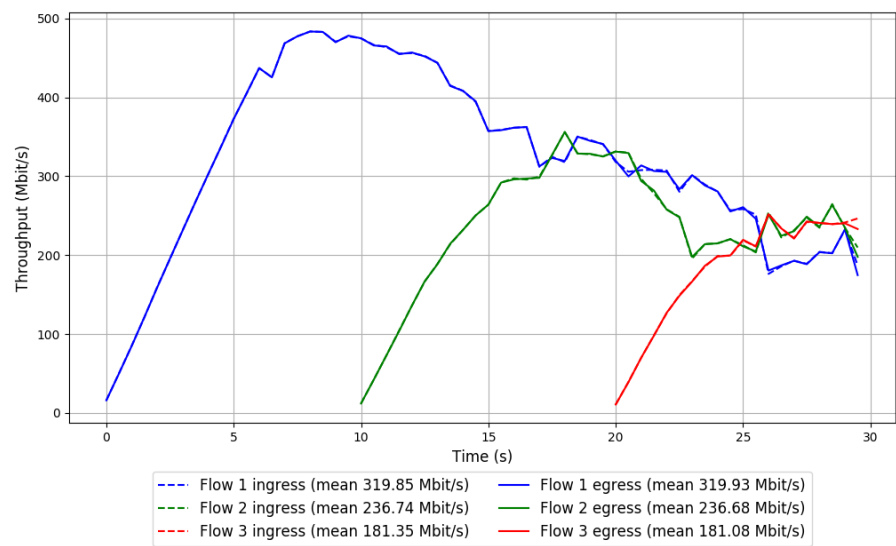
-- Flow 3:

Average throughput: 181.08 Mbit/s

95th percentile per-packet one-way delay: 2.950 ms

Loss rate: 0.40%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-03-06 15:41:50

End at: 2018-03-06 15:42:20

Local clock offset: 0.682 ms

Remote clock offset: 2.344 ms

Below is generated by plot.py at 2018-03-06 22:36:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 514.59 Mbit/s

95th percentile per-packet one-way delay: 6.672 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 304.27 Mbit/s

95th percentile per-packet one-way delay: 7.195 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 228.83 Mbit/s

95th percentile per-packet one-way delay: 5.451 ms

Loss rate: 0.13%

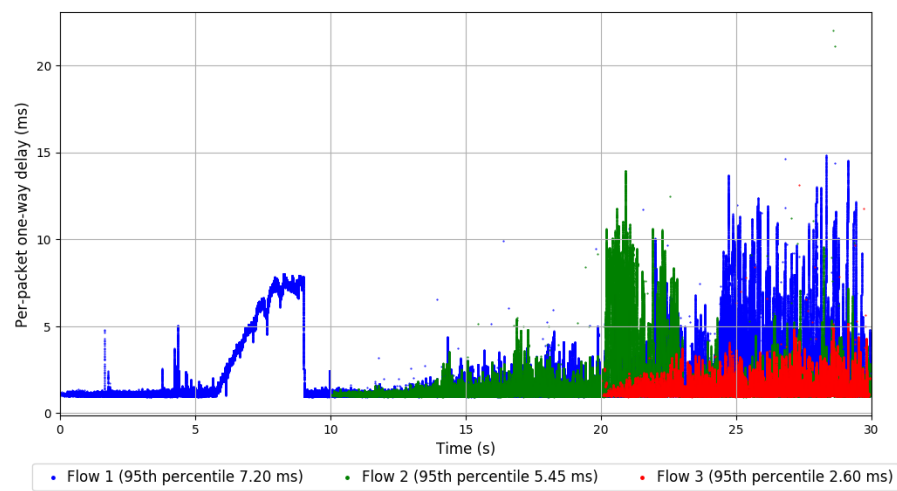
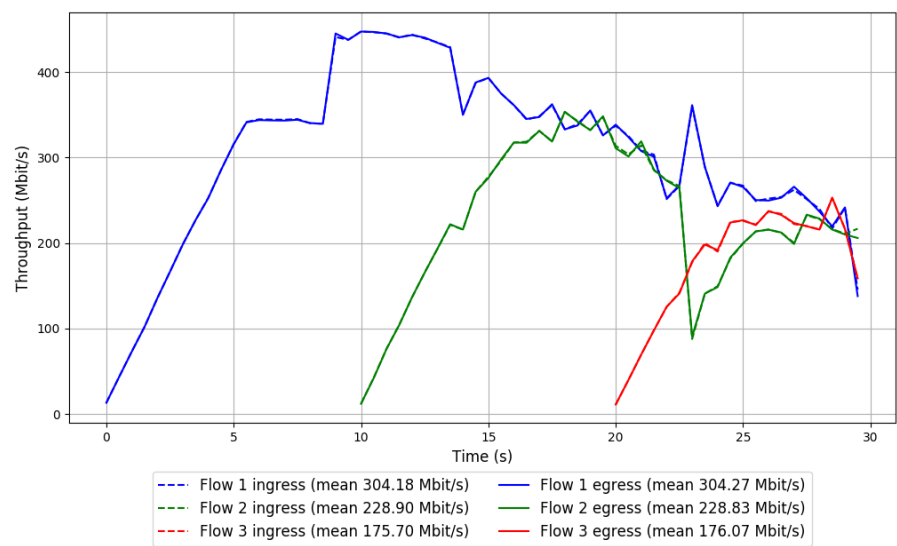
-- Flow 3:

Average throughput: 176.07 Mbit/s

95th percentile per-packet one-way delay: 2.599 ms

Loss rate: 0.00%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-03-06 16:11:03

End at: 2018-03-06 16:11:33

Local clock offset: -1.346 ms

Remote clock offset: 1.916 ms

Below is generated by plot.py at 2018-03-06 22:38:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 471.10 Mbit/s

95th percentile per-packet one-way delay: 3.743 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 246.92 Mbit/s

95th percentile per-packet one-way delay: 4.019 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 237.63 Mbit/s

95th percentile per-packet one-way delay: 3.851 ms

Loss rate: 0.04%

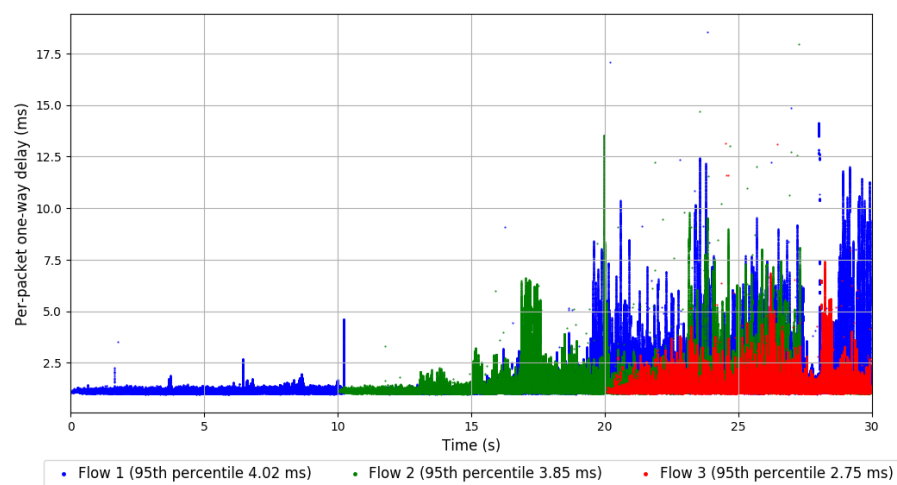
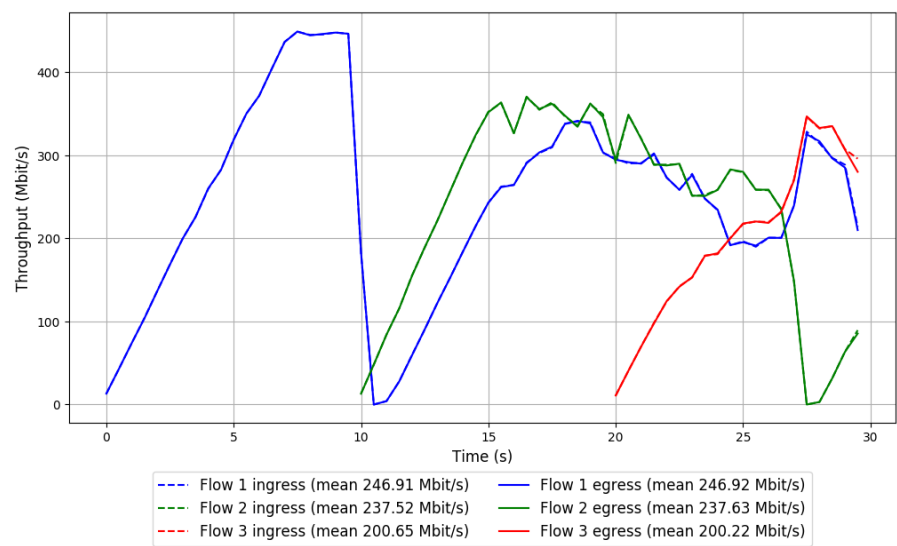
-- Flow 3:

Average throughput: 200.22 Mbit/s

95th percentile per-packet one-way delay: 2.748 ms

Loss rate: 0.41%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-03-06 16:40:04

End at: 2018-03-06 16:40:34

Local clock offset: -5.643 ms

Remote clock offset: 1.774 ms

Below is generated by plot.py at 2018-03-06 22:39:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 497.55 Mbit/s

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

Loss rate: 0.09%

-- Flow 1:

Average throughput: 244.19 Mbit/s

95th percentile per-packet one-way delay: 1.887 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 282.98 Mbit/s

95th percentile per-packet one-way delay: 4.164 ms

Loss rate: 0.13%

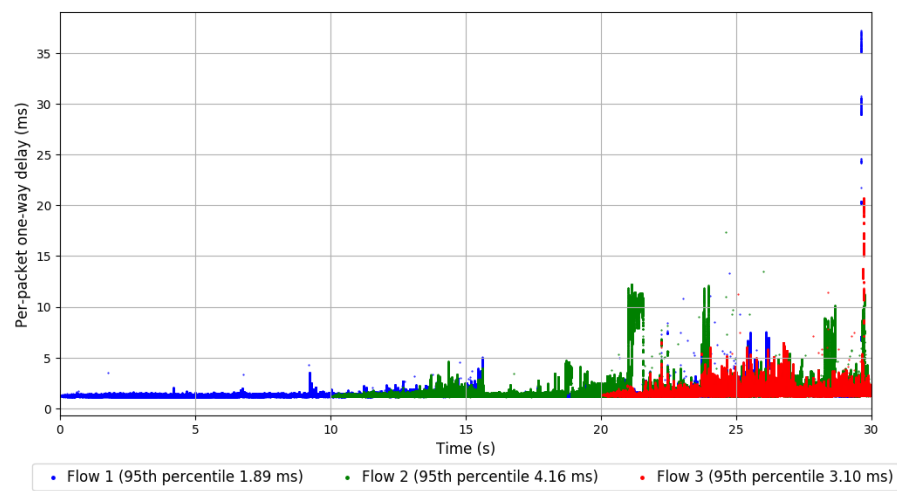
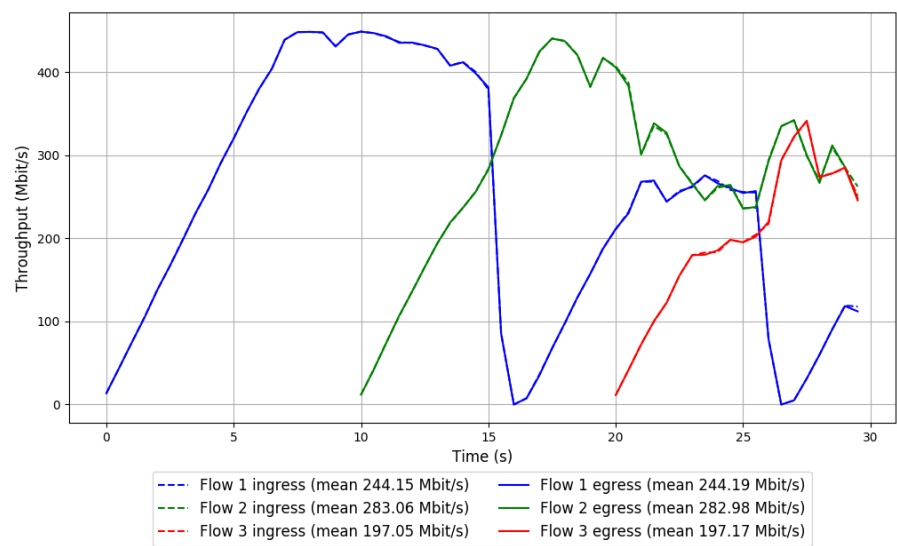
-- Flow 3:

Average throughput: 197.17 Mbit/s

95th percentile per-packet one-way delay: 3.101 ms

Loss rate: 0.14%

Run 10: Report of LEDBAT — Data Link



Run 1: Statistics of PCC

Start at: 2018-03-06 12:09:18

End at: 2018-03-06 12:09:48

Local clock offset: -3.177 ms

Remote clock offset: 5.455 ms

Below is generated by plot.py at 2018-03-06 22:43:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 780.40 Mbit/s

95th percentile per-packet one-way delay: 63.987 ms

Loss rate: 3.08%

-- Flow 1:

Average throughput: 636.08 Mbit/s

95th percentile per-packet one-way delay: 92.524 ms

Loss rate: 3.73%

-- Flow 2:

Average throughput: 36.81 Mbit/s

95th percentile per-packet one-way delay: 3.061 ms

Loss rate: 0.18%

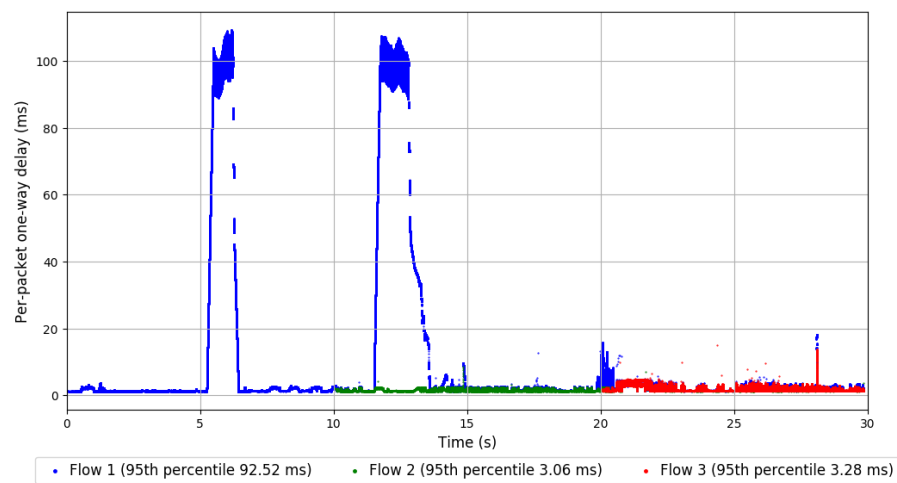
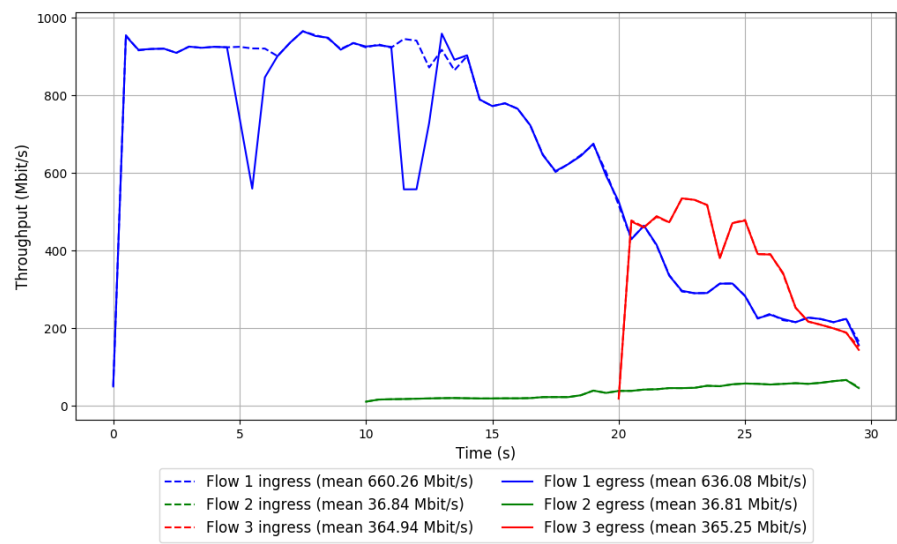
-- Flow 3:

Average throughput: 365.25 Mbit/s

95th percentile per-packet one-way delay: 3.276 ms

Loss rate: 0.11%

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2018-03-06 12:38:52

End at: 2018-03-06 12:39:22

Local clock offset: -4.774 ms

Remote clock offset: 6.751 ms

Below is generated by plot.py at 2018-03-06 22:45:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 871.33 Mbit/s

95th percentile per-packet one-way delay: 3.557 ms

Loss rate: 0.44%

-- Flow 1:

Average throughput: 580.87 Mbit/s

95th percentile per-packet one-way delay: 17.772 ms

Loss rate: 0.62%

-- Flow 2:

Average throughput: 329.36 Mbit/s

95th percentile per-packet one-way delay: 3.088 ms

Loss rate: 0.09%

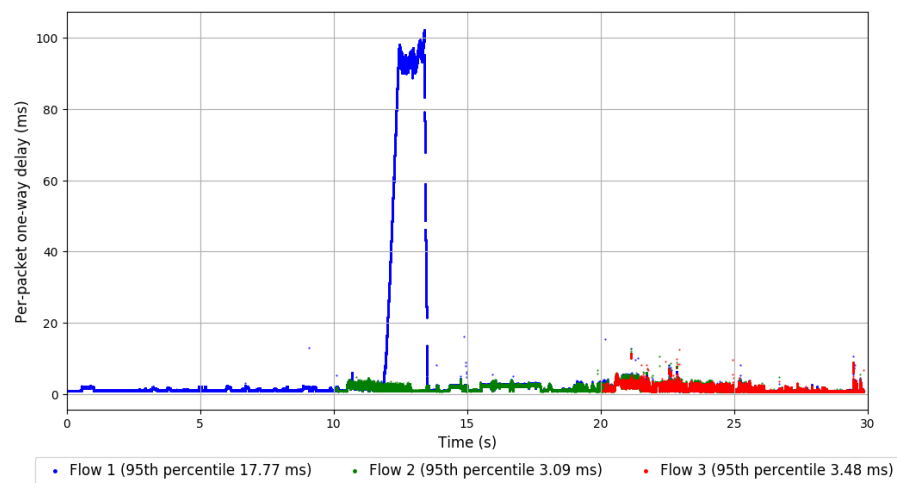
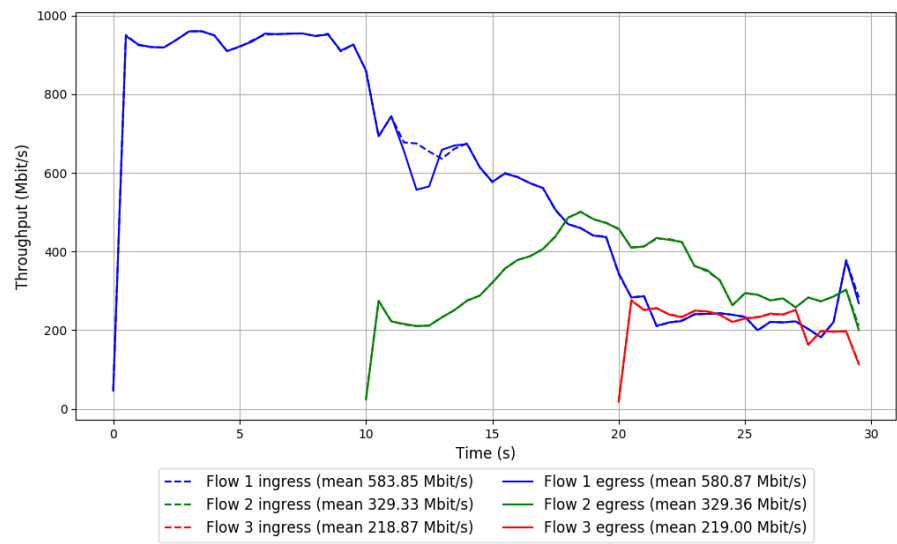
-- Flow 3:

Average throughput: 219.00 Mbit/s

95th percentile per-packet one-way delay: 3.483 ms

Loss rate: 0.08%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2018-03-06 13:08:19

End at: 2018-03-06 13:08:49

Local clock offset: -4.711 ms

Remote clock offset: 4.494 ms

Below is generated by plot.py at 2018-03-06 22:45:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 686.49 Mbit/s

95th percentile per-packet one-way delay: 92.438 ms

Loss rate: 4.24%

-- Flow 1:

Average throughput: 482.47 Mbit/s

95th percentile per-packet one-way delay: 95.098 ms

Loss rate: 5.87%

-- Flow 2:

Average throughput: 230.89 Mbit/s

95th percentile per-packet one-way delay: 2.939 ms

Loss rate: 0.09%

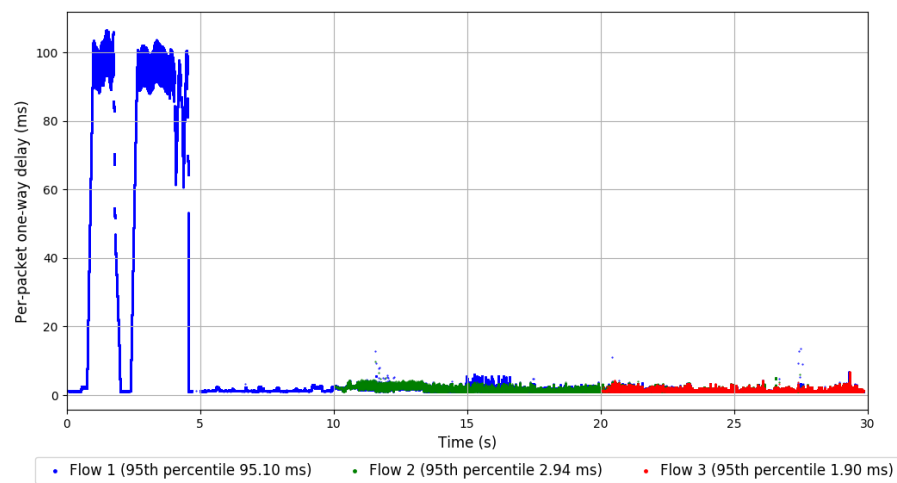
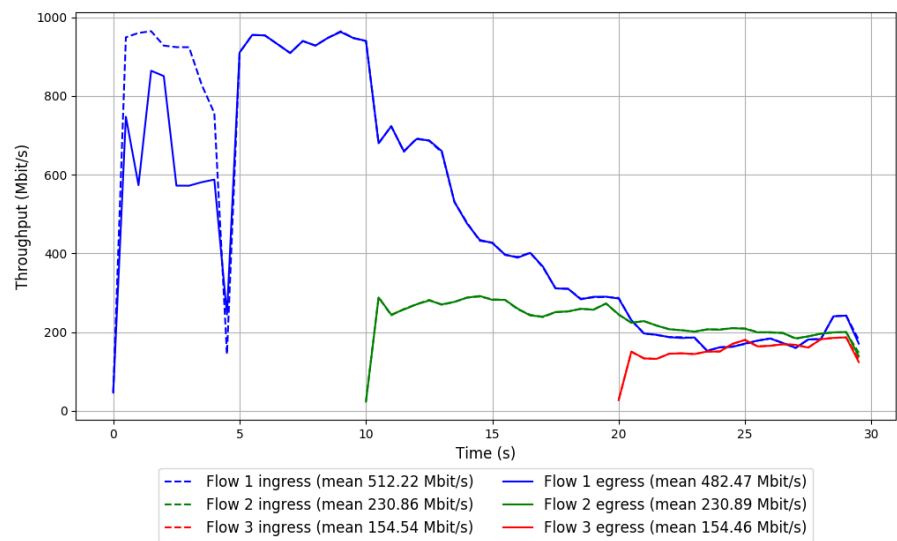
-- Flow 3:

Average throughput: 154.46 Mbit/s

95th percentile per-packet one-way delay: 1.900 ms

Loss rate: 0.25%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2018-03-06 13:37:27

End at: 2018-03-06 13:37:57

Local clock offset: -3.746 ms

Remote clock offset: -0.59 ms

Below is generated by plot.py at 2018-03-06 22:48:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 855.71 Mbit/s

95th percentile per-packet one-way delay: 1.862 ms

Loss rate: 0.40%

-- Flow 1:

Average throughput: 767.11 Mbit/s

95th percentile per-packet one-way delay: 1.866 ms

Loss rate: 0.42%

-- Flow 2:

Average throughput: 44.40 Mbit/s

95th percentile per-packet one-way delay: 1.671 ms

Loss rate: 0.16%

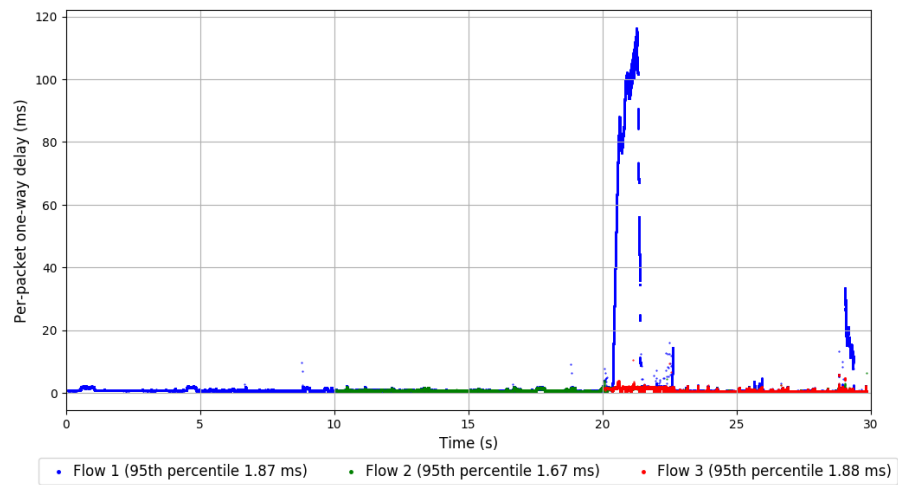
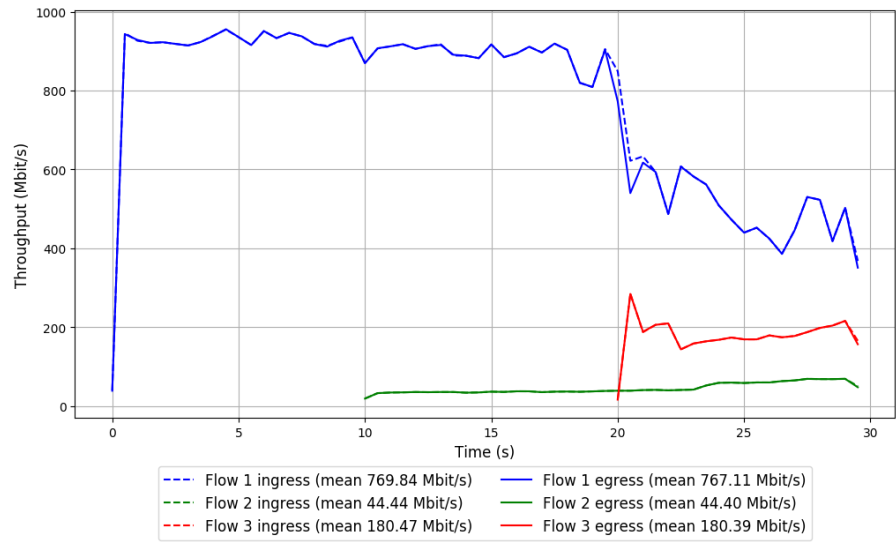
-- Flow 3:

Average throughput: 180.39 Mbit/s

95th percentile per-packet one-way delay: 1.877 ms

Loss rate: 0.25%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2018-03-06 14:07:10

End at: 2018-03-06 14:07:40

Local clock offset: 3.911 ms

Remote clock offset: 0.515 ms

Below is generated by plot.py at 2018-03-06 22:48:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 683.21 Mbit/s

95th percentile per-packet one-way delay: 57.057 ms

Loss rate: 2.08%

-- Flow 1:

Average throughput: 590.01 Mbit/s

95th percentile per-packet one-way delay: 67.711 ms

Loss rate: 2.37%

-- Flow 2:

Average throughput: 31.06 Mbit/s

95th percentile per-packet one-way delay: 1.994 ms

Loss rate: 0.28%

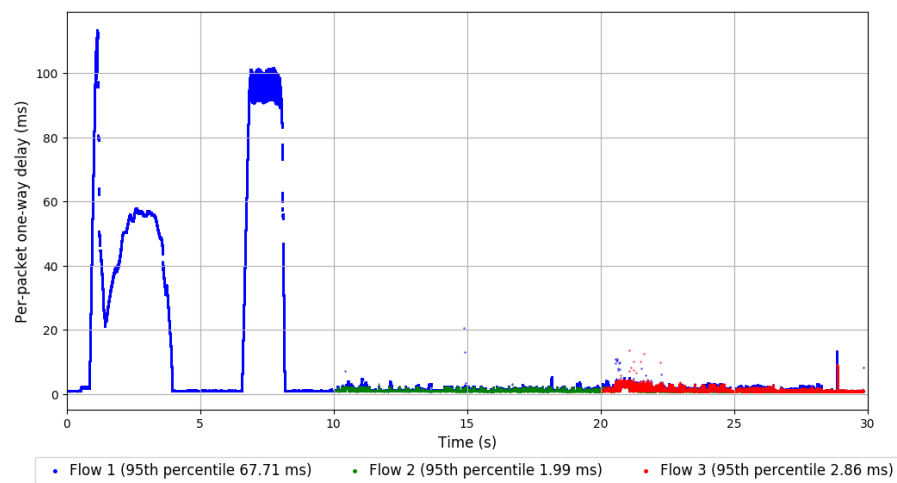
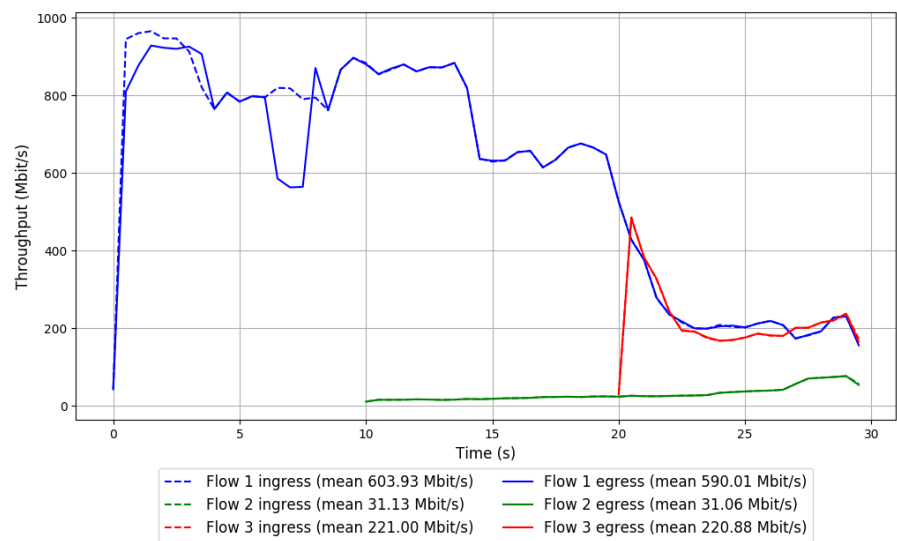
-- Flow 3:

Average throughput: 220.88 Mbit/s

95th percentile per-packet one-way delay: 2.860 ms

Loss rate: 0.19%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2018-03-06 14:36:32

End at: 2018-03-06 14:37:02

Local clock offset: 4.819 ms

Remote clock offset: 1.723 ms

Below is generated by plot.py at 2018-03-06 22:48:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 833.29 Mbit/s

95th percentile per-packet one-way delay: 3.510 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 516.29 Mbit/s

95th percentile per-packet one-way delay: 3.254 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 366.67 Mbit/s

95th percentile per-packet one-way delay: 3.577 ms

Loss rate: 0.07%

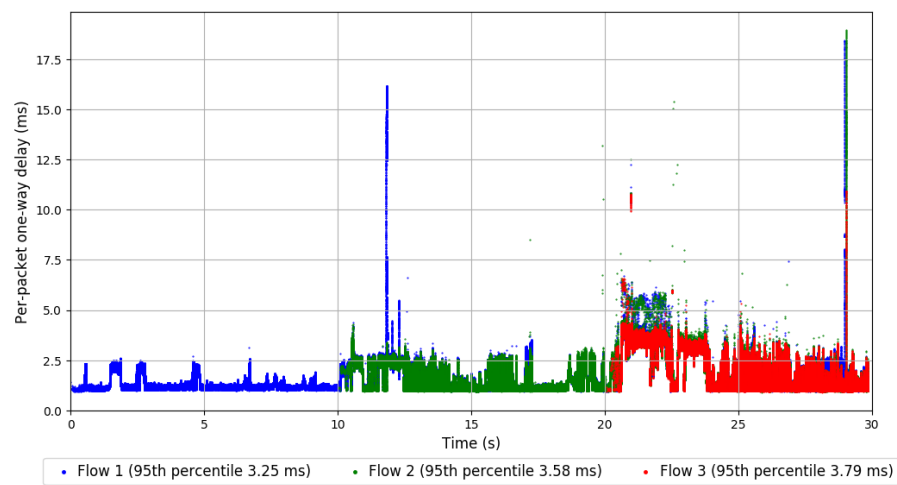
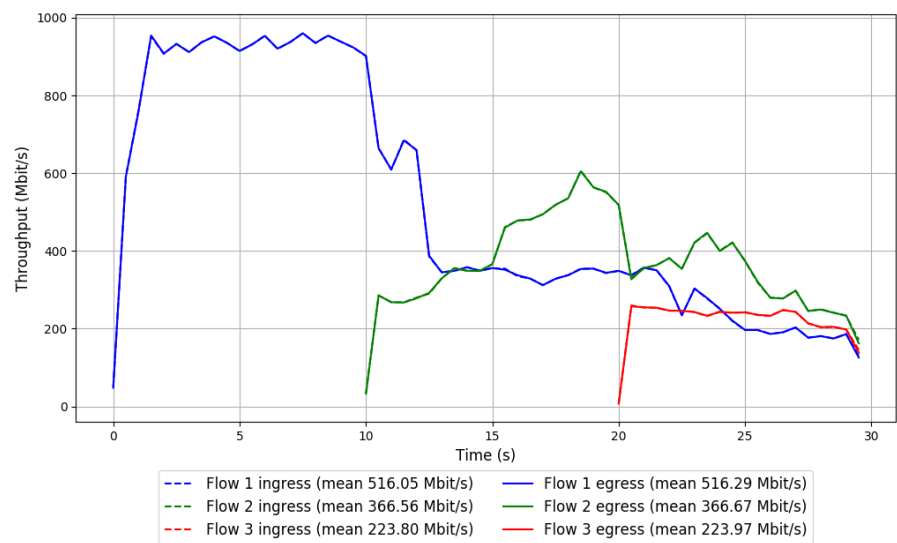
-- Flow 3:

Average throughput: 223.97 Mbit/s

95th percentile per-packet one-way delay: 3.788 ms

Loss rate: 0.18%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2018-03-06 15:11:05

End at: 2018-03-06 15:11:35

Local clock offset: 0.887 ms

Remote clock offset: 2.175 ms

Below is generated by plot.py at 2018-03-06 22:49:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 743.80 Mbit/s

95th percentile per-packet one-way delay: 2.952 ms

Loss rate: 1.11%

-- Flow 1:

Average throughput: 521.65 Mbit/s

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

Loss rate: 1.52%

-- Flow 2:

Average throughput: 258.52 Mbit/s

95th percentile per-packet one-way delay: 2.707 ms

Loss rate: 0.10%

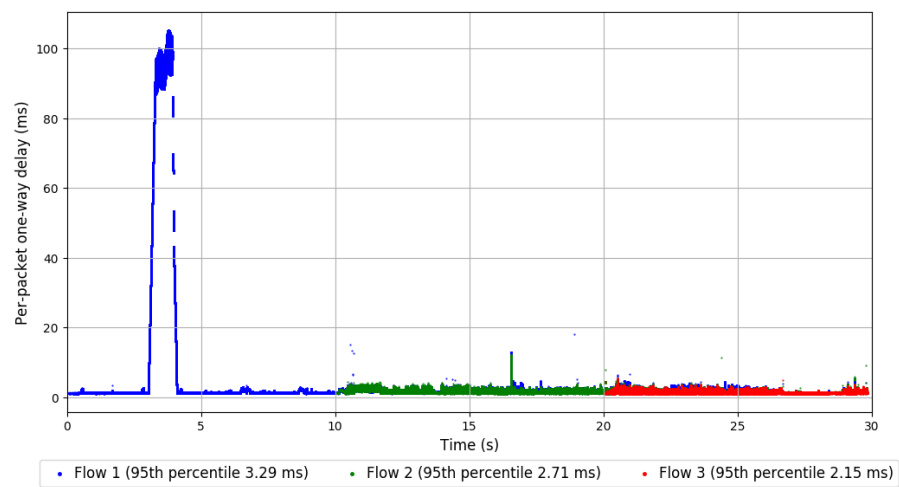
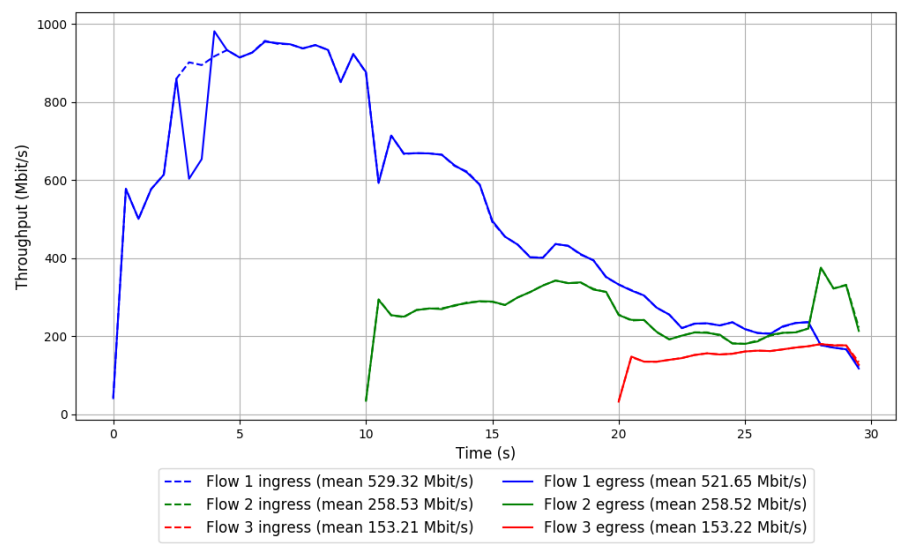
-- Flow 3:

Average throughput: 153.22 Mbit/s

95th percentile per-packet one-way delay: 2.146 ms

Loss rate: 0.25%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2018-03-06 15:40:09

End at: 2018-03-06 15:40:39

Local clock offset: 0.7 ms

Remote clock offset: 2.277 ms

Below is generated by plot.py at 2018-03-06 22:51:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 788.87 Mbit/s

95th percentile per-packet one-way delay: 69.343 ms

Loss rate: 2.23%

-- Flow 1:

Average throughput: 483.84 Mbit/s

95th percentile per-packet one-way delay: 73.826 ms

Loss rate: 3.54%

-- Flow 2:

Average throughput: 360.49 Mbit/s

95th percentile per-packet one-way delay: 3.278 ms

Loss rate: 0.04%

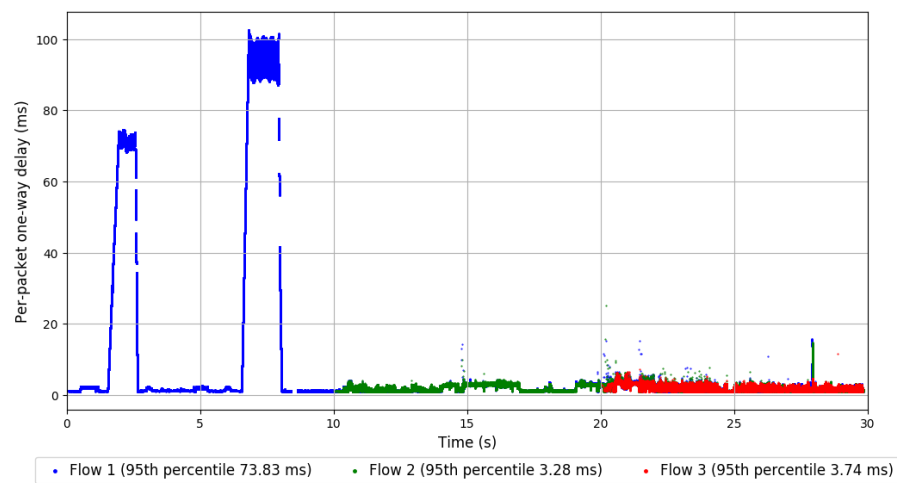
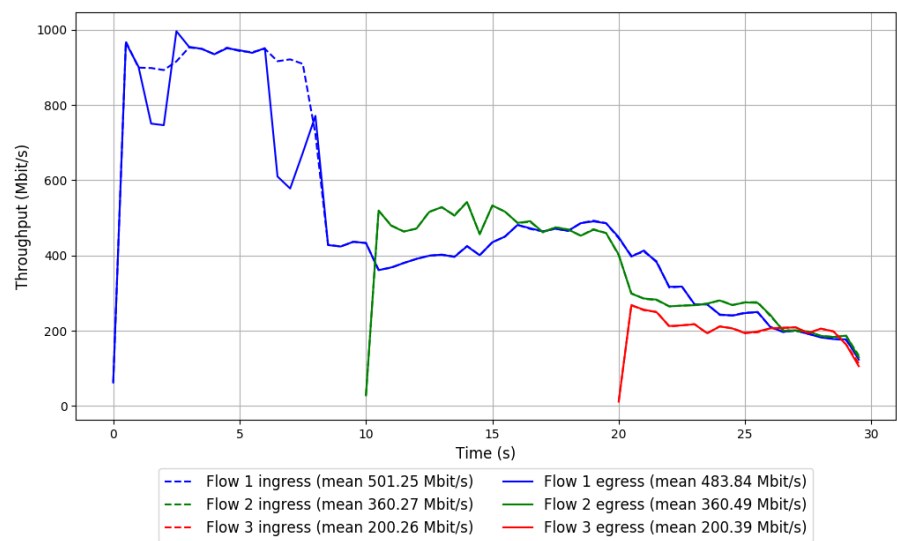
-- Flow 3:

Average throughput: 200.39 Mbit/s

95th percentile per-packet one-way delay: 3.736 ms

Loss rate: 0.21%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2018-03-06 16:09:29

End at: 2018-03-06 16:09:59

Local clock offset: -1.358 ms

Remote clock offset: 1.925 ms

Below is generated by plot.py at 2018-03-06 22:52:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 561.49 Mbit/s

95th percentile per-packet one-way delay: 3.494 ms

Loss rate: 0.76%

-- Flow 1:

Average throughput: 395.97 Mbit/s

95th percentile per-packet one-way delay: 4.687 ms

Loss rate: 0.87%

-- Flow 2:

Average throughput: 232.42 Mbit/s

95th percentile per-packet one-way delay: 2.697 ms

Loss rate: 0.49%

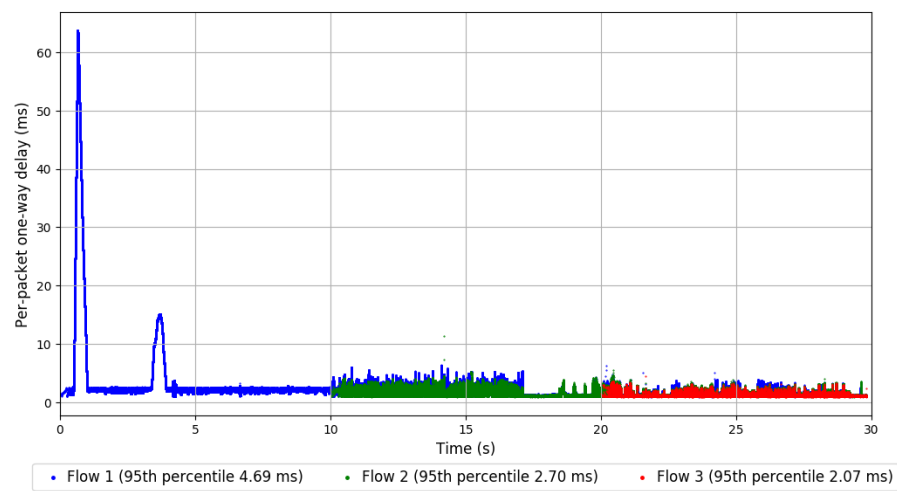
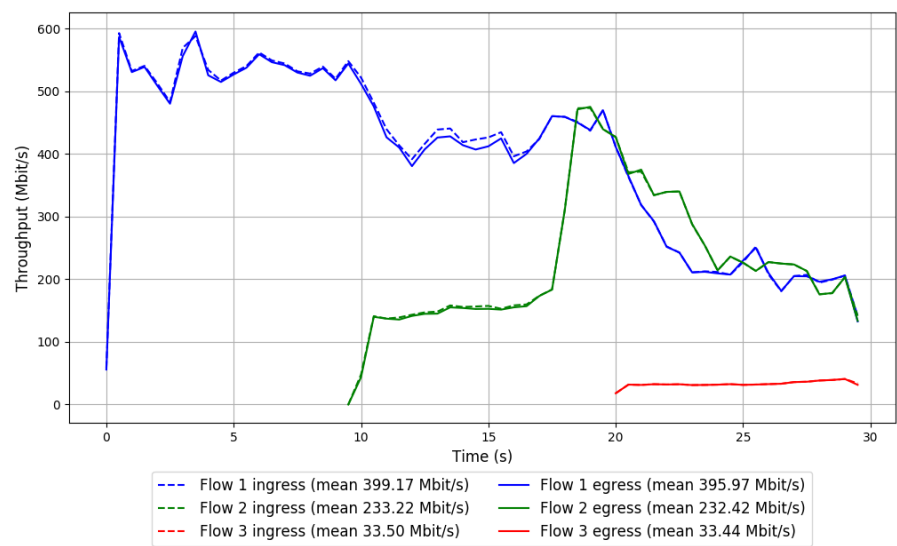
-- Flow 3:

Average throughput: 33.44 Mbit/s

95th percentile per-packet one-way delay: 2.073 ms

Loss rate: 0.37%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2018-03-06 16:38:23

End at: 2018-03-06 16:38:53

Local clock offset: -5.353 ms

Remote clock offset: 1.73 ms

Below is generated by plot.py at 2018-03-06 22:56:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 716.25 Mbit/s

95th percentile per-packet one-way delay: 22.466 ms

Loss rate: 0.24%

-- Flow 1:

Average throughput: 465.90 Mbit/s

95th percentile per-packet one-way delay: 41.277 ms

Loss rate: 0.16%

-- Flow 2:

Average throughput: 280.42 Mbit/s

95th percentile per-packet one-way delay: 5.021 ms

Loss rate: 0.30%

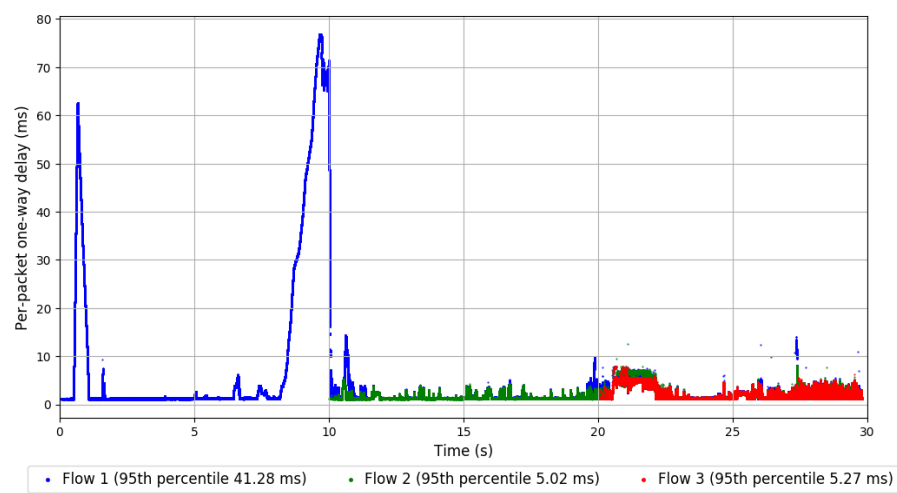
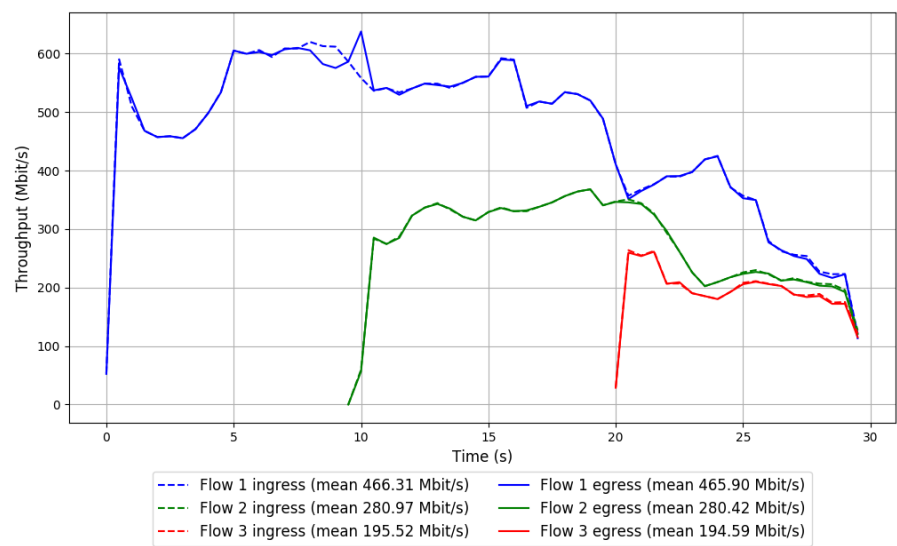
-- Flow 3:

Average throughput: 194.59 Mbit/s

95th percentile per-packet one-way delay: 5.270 ms

Loss rate: 0.69%

Run 10: Report of PCC — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2018-03-06 11:54:50

End at: 2018-03-06 11:55:20

Local clock offset: 4.516 ms

Remote clock offset: 4.683 ms

Below is generated by plot.py at 2018-03-06 22:56:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 145.00 Mbit/s

95th percentile per-packet one-way delay: 2.177 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 77.67 Mbit/s

95th percentile per-packet one-way delay: 2.149 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 71.42 Mbit/s

95th percentile per-packet one-way delay: 2.174 ms

Loss rate: 0.10%

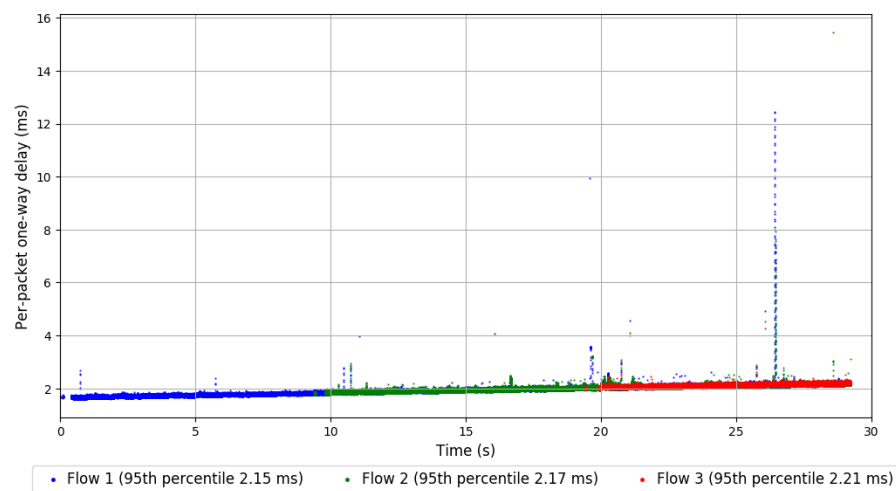
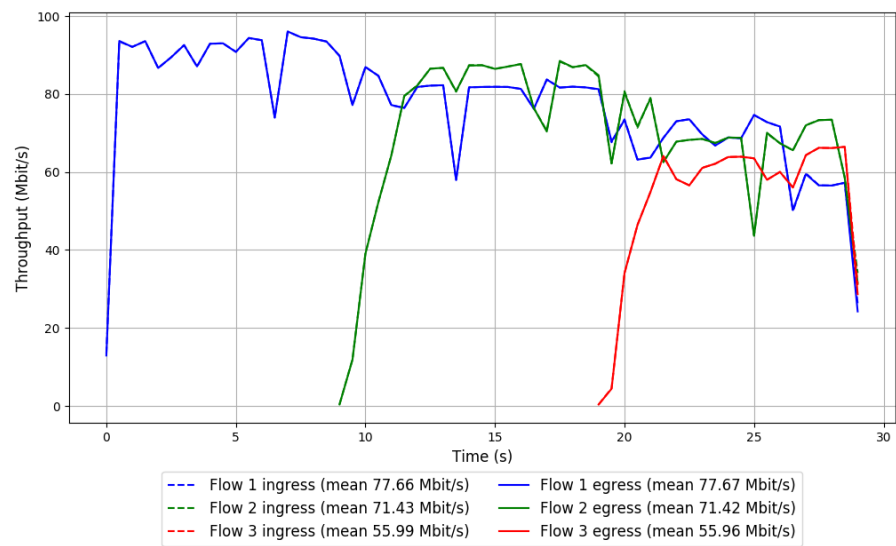
-- Flow 3:

Average throughput: 55.96 Mbit/s

95th percentile per-packet one-way delay: 2.214 ms

Loss rate: 0.24%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-03-06 12:24:33

End at: 2018-03-06 12:25:03

Local clock offset: -4.883 ms

Remote clock offset: 6.35 ms

Below is generated by plot.py at 2018-03-06 22:56:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 137.82 Mbit/s

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

Loss rate: 0.09%

-- Flow 1:

Average throughput: 73.63 Mbit/s

95th percentile per-packet one-way delay: 1.147 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 67.75 Mbit/s

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

Loss rate: 0.09%

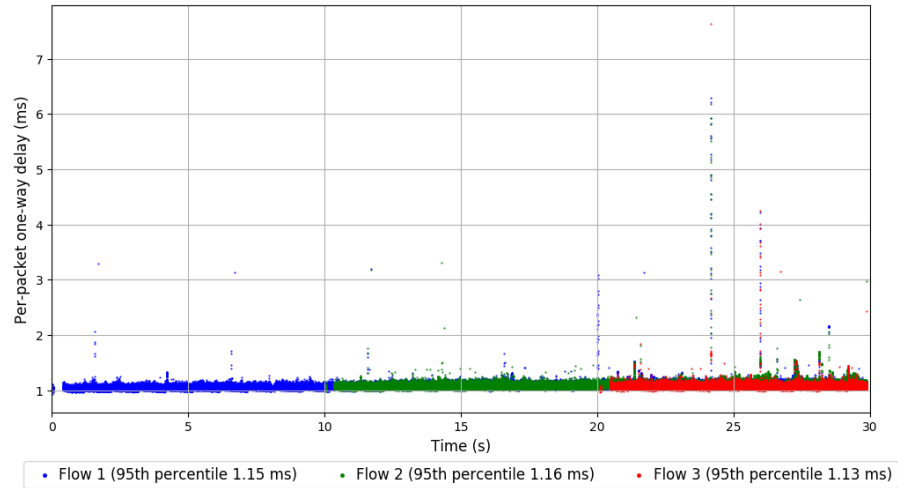
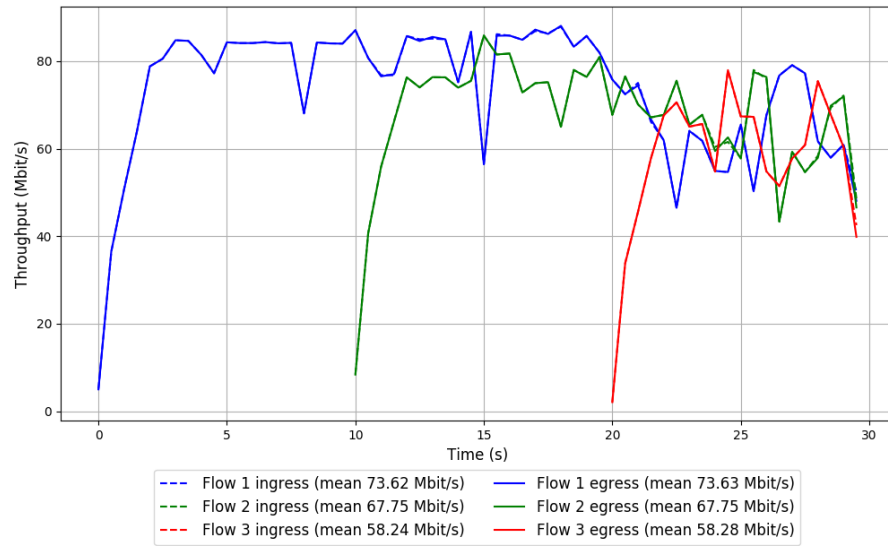
-- Flow 3:

Average throughput: 58.28 Mbit/s

95th percentile per-packet one-way delay: 1.134 ms

Loss rate: 0.24%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-03-06 12:54:16

End at: 2018-03-06 12:54:46

Local clock offset: -4.825 ms

Remote clock offset: 4.766 ms

Below is generated by plot.py at 2018-03-06 22:56:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 138.70 Mbit/s

95th percentile per-packet one-way delay: 1.110 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 76.76 Mbit/s

95th percentile per-packet one-way delay: 1.110 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 65.65 Mbit/s

95th percentile per-packet one-way delay: 1.109 ms

Loss rate: 0.10%

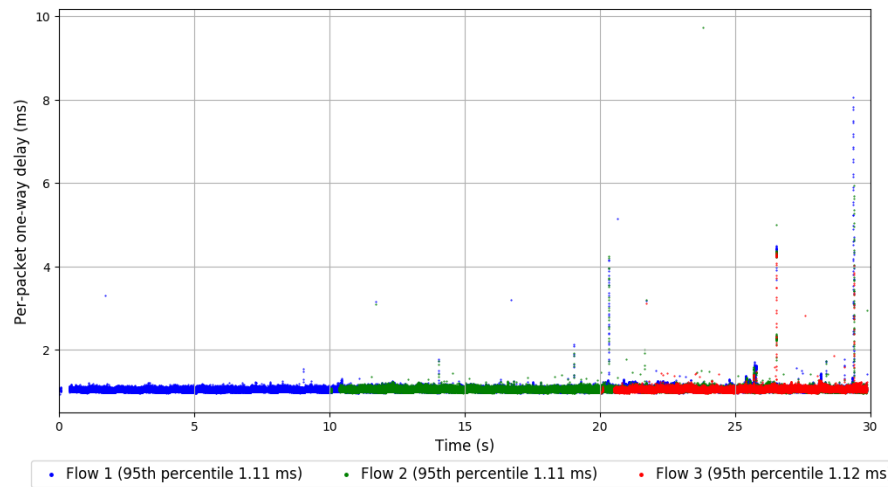
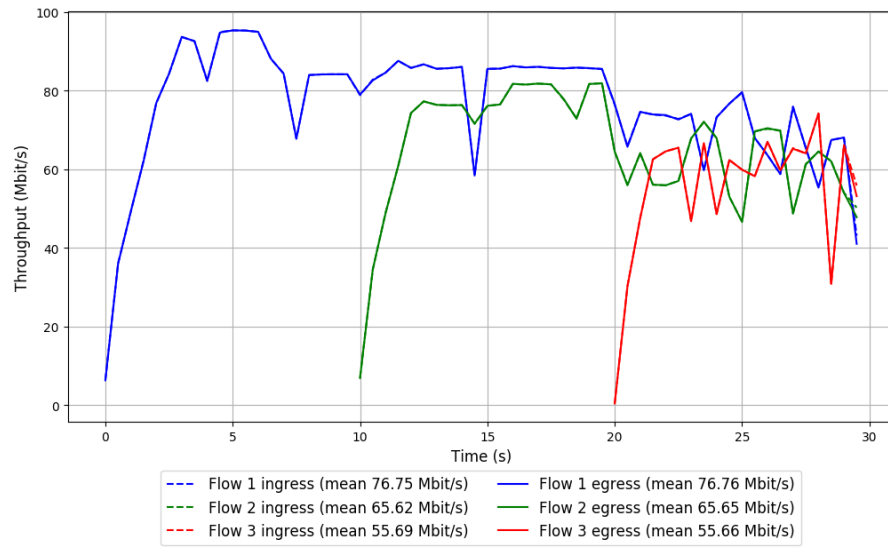
-- Flow 3:

Average throughput: 55.66 Mbit/s

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

Loss rate: 0.26%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-03-06 13:23:31

End at: 2018-03-06 13:24:01

Local clock offset: -4.686 ms

Remote clock offset: 1.113 ms

Below is generated by plot.py at 2018-03-06 22:56:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 127.50 Mbit/s

95th percentile per-packet one-way delay: 1.674 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 69.28 Mbit/s

95th percentile per-packet one-way delay: 1.726 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 58.64 Mbit/s

95th percentile per-packet one-way delay: 1.794 ms

Loss rate: 0.04%

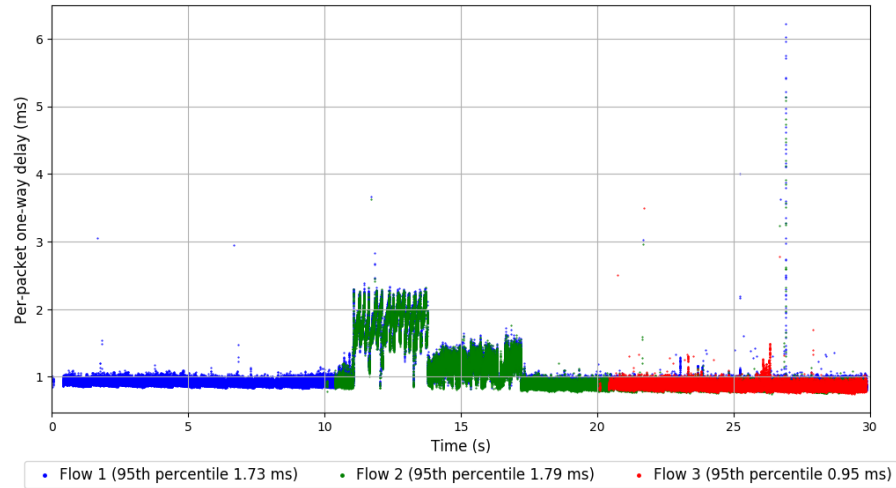
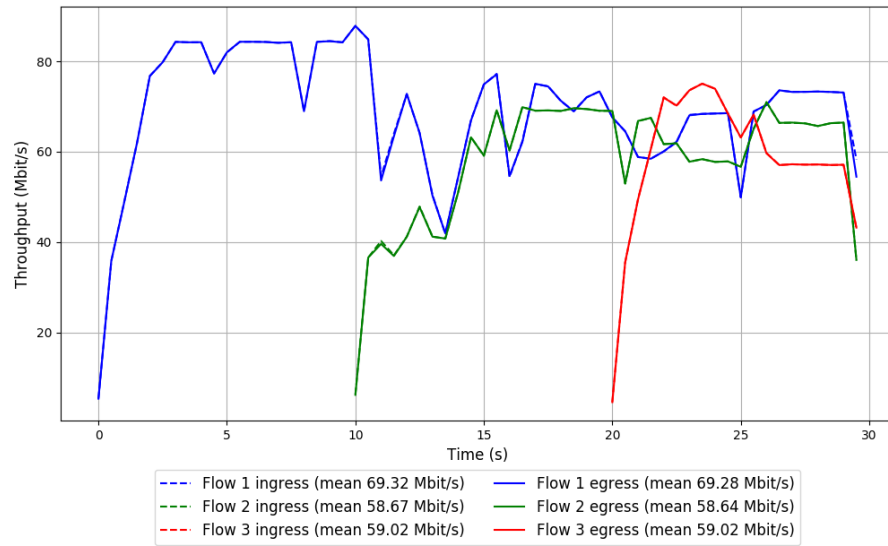
-- Flow 3:

Average throughput: 59.02 Mbit/s

95th percentile per-packet one-way delay: 0.950 ms

Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-03-06 13:53:05

End at: 2018-03-06 13:53:35

Local clock offset: 1.784 ms

Remote clock offset: 0.016 ms

Below is generated by plot.py at 2018-03-06 22:56:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 135.90 Mbit/s

95th percentile per-packet one-way delay: 1.021 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 70.61 Mbit/s

95th percentile per-packet one-way delay: 1.010 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 67.67 Mbit/s

95th percentile per-packet one-way delay: 1.030 ms

Loss rate: 0.08%

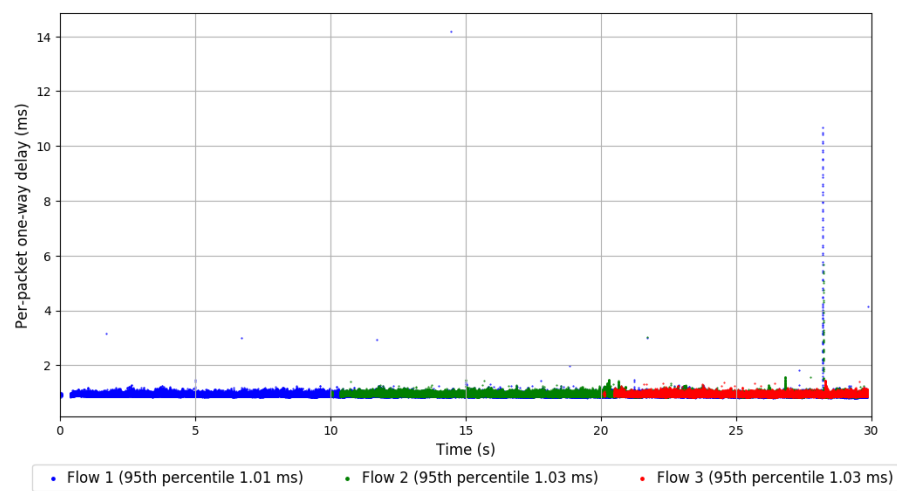
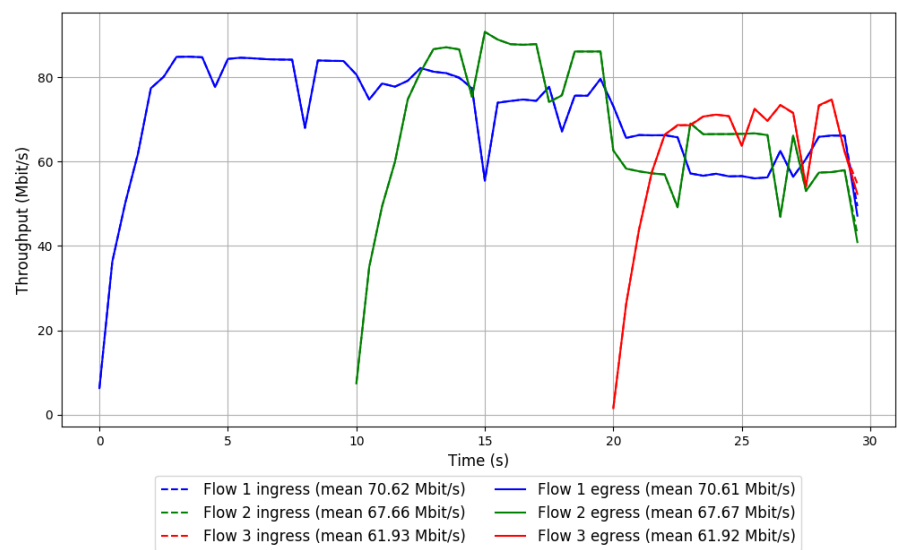
-- Flow 3:

Average throughput: 61.92 Mbit/s

95th percentile per-packet one-way delay: 1.027 ms

Loss rate: 0.20%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-03-06 14:22:32

End at: 2018-03-06 14:23:02

Local clock offset: 3.958 ms

Remote clock offset: 0.699 ms

Below is generated by plot.py at 2018-03-06 22:56:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 130.29 Mbit/s

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

Loss rate: 0.10%

-- Flow 1:

Average throughput: 65.92 Mbit/s

95th percentile per-packet one-way delay: 1.258 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 67.76 Mbit/s

95th percentile per-packet one-way delay: 1.279 ms

Loss rate: 0.10%

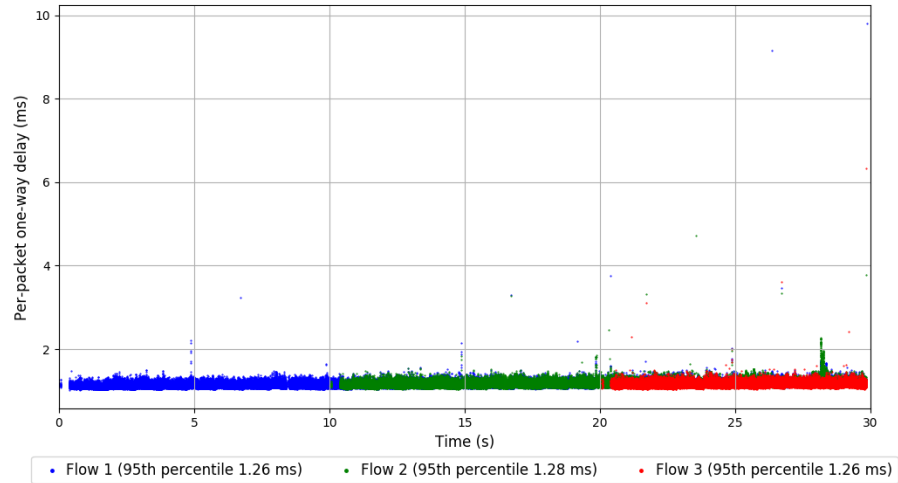
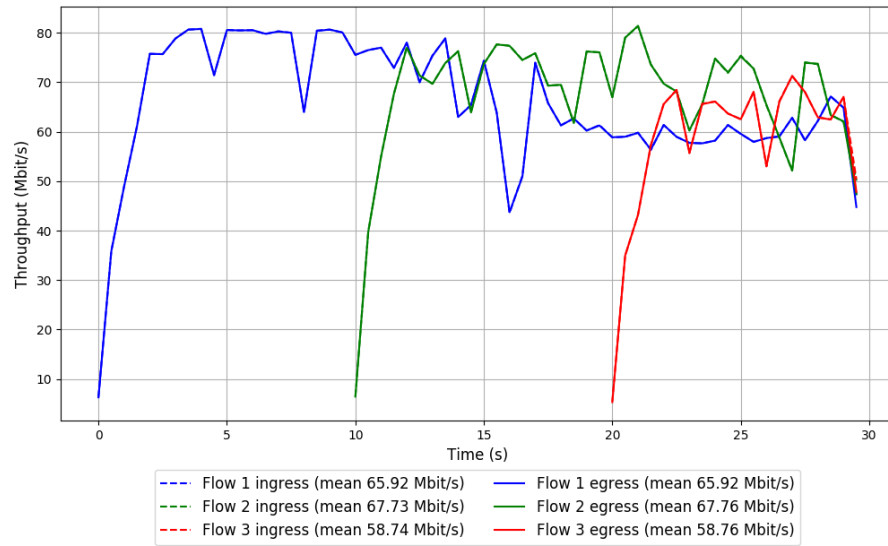
-- Flow 3:

Average throughput: 58.76 Mbit/s

95th percentile per-packet one-way delay: 1.256 ms

Loss rate: 0.23%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-03-06 14:52:03

End at: 2018-03-06 14:52:33

Local clock offset: 2.535 ms

Remote clock offset: 2.037 ms

Below is generated by plot.py at 2018-03-06 22:56:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 135.33 Mbit/s

95th percentile per-packet one-way delay: 1.417 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 72.49 Mbit/s

95th percentile per-packet one-way delay: 1.416 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 65.76 Mbit/s

95th percentile per-packet one-way delay: 1.408 ms

Loss rate: 0.09%

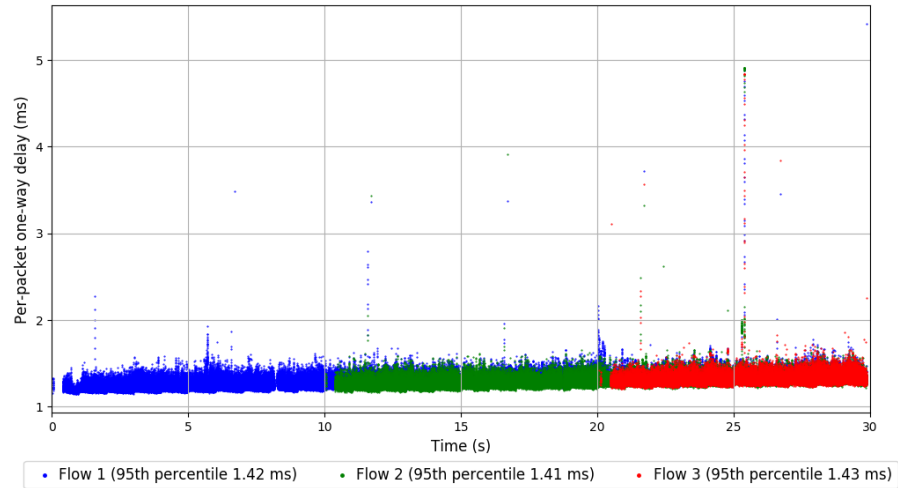
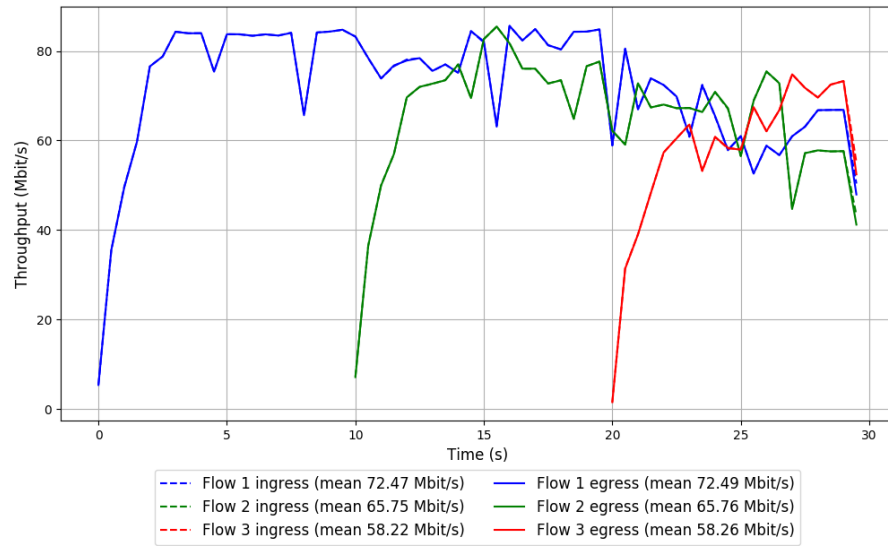
-- Flow 3:

Average throughput: 58.26 Mbit/s

95th percentile per-packet one-way delay: 1.433 ms

Loss rate: 0.25%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-03-06 15:26:22

End at: 2018-03-06 15:26:52

Local clock offset: 0.618 ms

Remote clock offset: 2.287 ms

Below is generated by plot.py at 2018-03-06 22:56:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 137.39 Mbit/s

95th percentile per-packet one-way delay: 1.147 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 74.91 Mbit/s

95th percentile per-packet one-way delay: 1.140 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 64.77 Mbit/s

95th percentile per-packet one-way delay: 1.149 ms

Loss rate: 0.12%

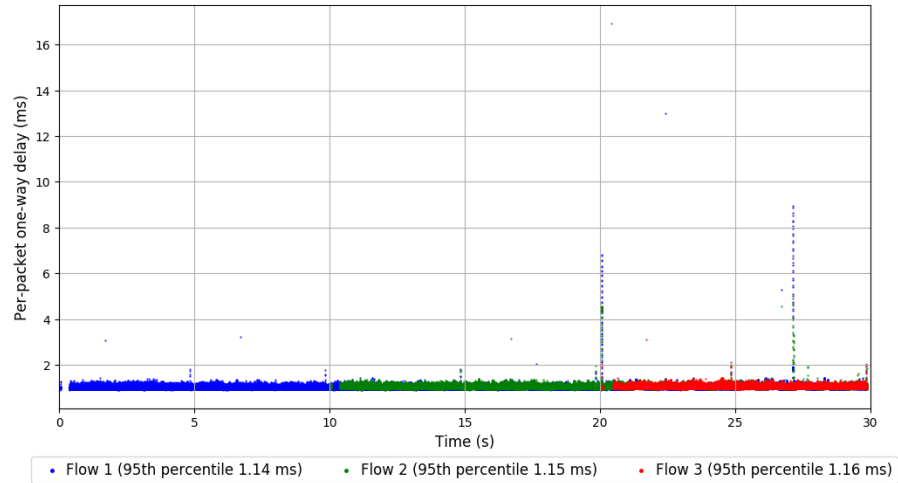
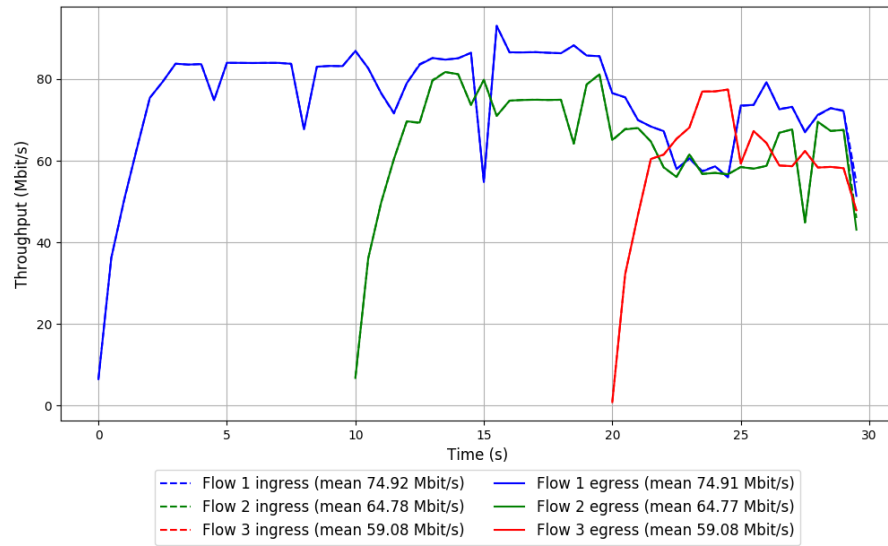
-- Flow 3:

Average throughput: 59.08 Mbit/s

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

Loss rate: 0.00%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-03-06 15:55:34

End at: 2018-03-06 15:56:04

Local clock offset: 0.03 ms

Remote clock offset: 2.356 ms

Below is generated by plot.py at 2018-03-06 22:56:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 138.38 Mbit/s

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

Loss rate: 0.07%

-- Flow 1:

Average throughput: 72.49 Mbit/s

95th percentile per-packet one-way delay: 1.267 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 69.28 Mbit/s

95th percentile per-packet one-way delay: 1.299 ms

Loss rate: 0.05%

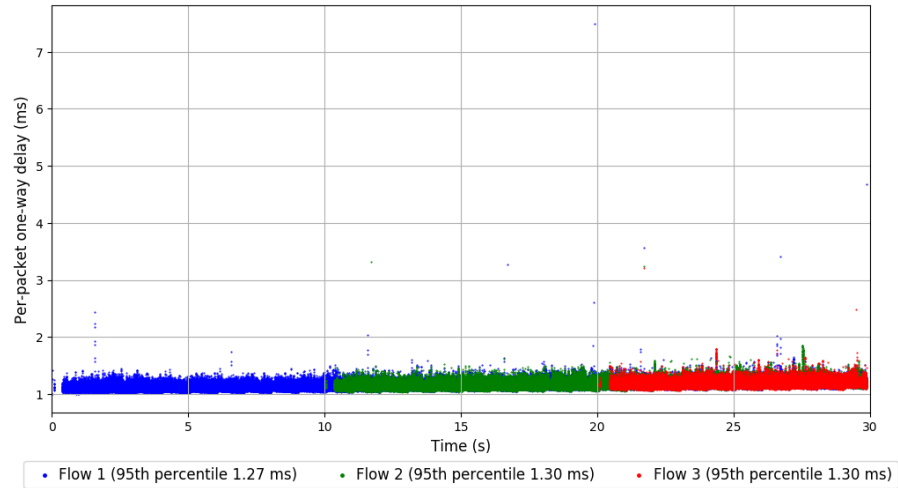
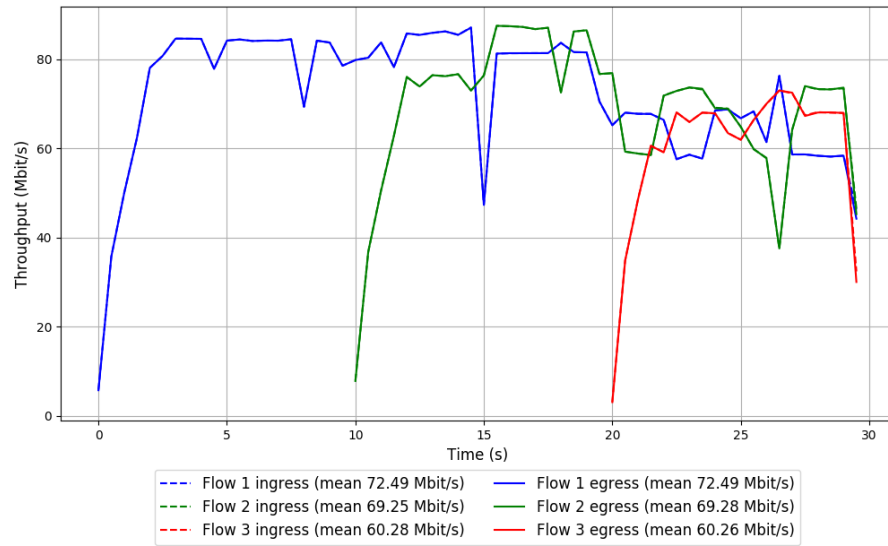
-- Flow 3:

Average throughput: 60.26 Mbit/s

95th percentile per-packet one-way delay: 1.300 ms

Loss rate: 0.22%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-03-06 16:24:30

End at: 2018-03-06 16:25:00

Local clock offset: -1.94 ms

Remote clock offset: 1.635 ms

Below is generated by plot.py at 2018-03-06 22:56:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 141.04 Mbit/s

95th percentile per-packet one-way delay: 1.195 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 76.94 Mbit/s

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

Loss rate: 0.06%

-- Flow 2:

Average throughput: 67.22 Mbit/s

95th percentile per-packet one-way delay: 1.196 ms

Loss rate: 0.10%

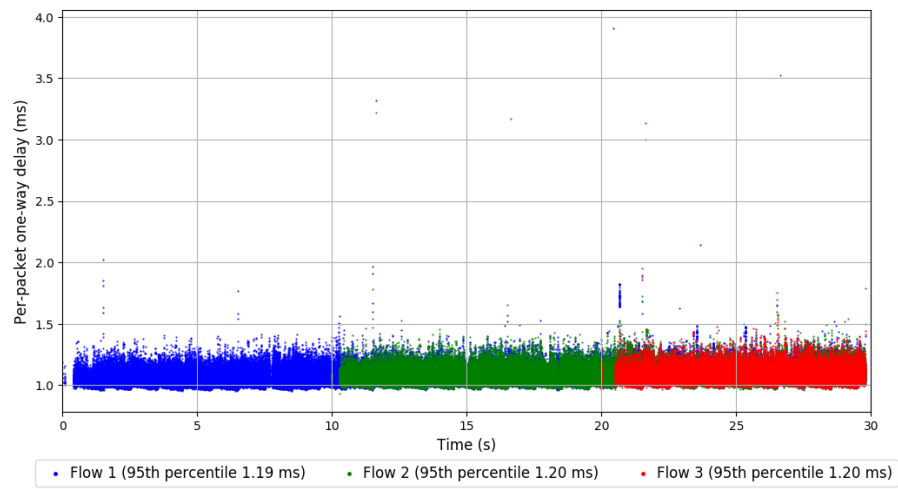
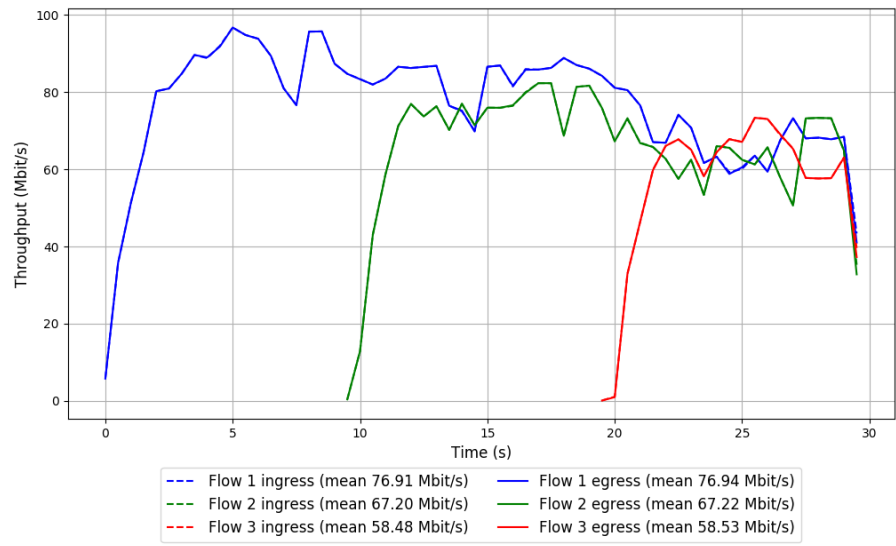
-- Flow 3:

Average throughput: 58.53 Mbit/s

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

Loss rate: 0.22%

Run 10: Report of QUIC Cubic — Data Link

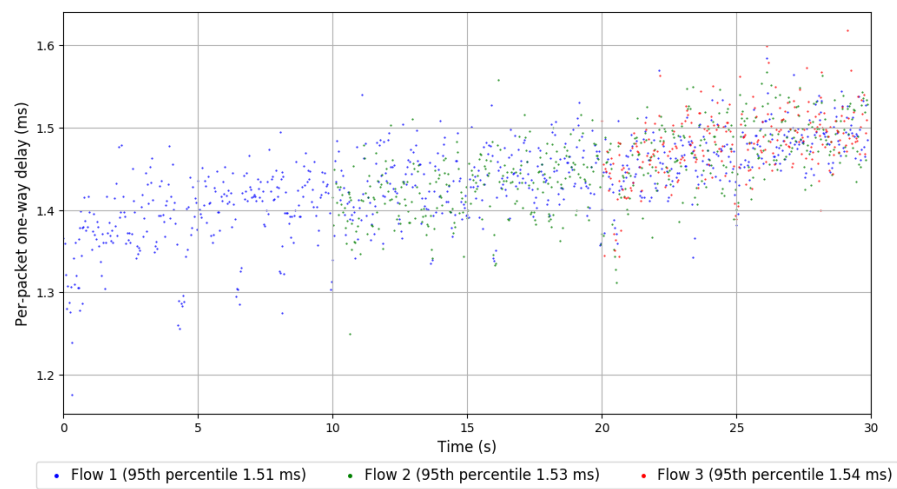
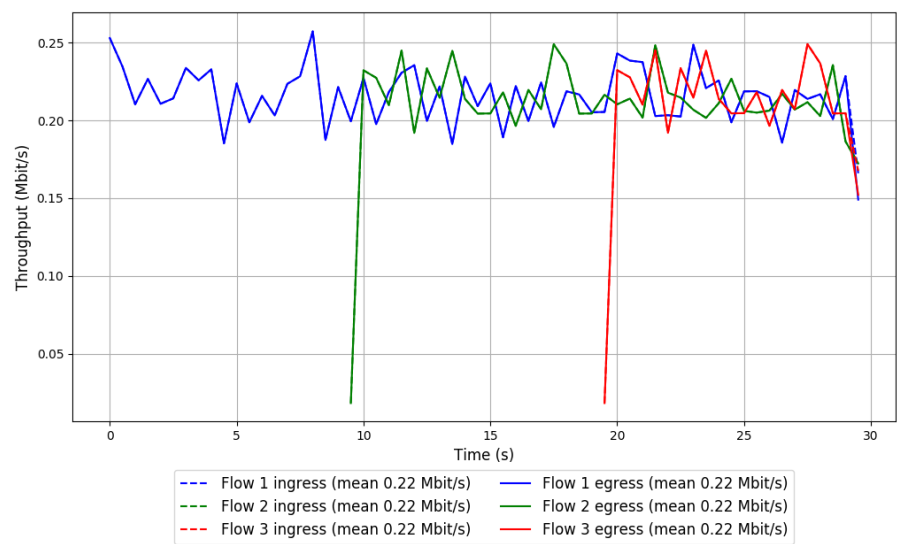


```
Run 1: Statistics of SReAM

Start at: 2018-03-06 12:06:13
End at: 2018-03-06 12:06:43
Local clock offset: -2.326 ms
Remote clock offset: 5.381 ms

# Below is generated by plot.py at 2018-03-06 22:56:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 1.525 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.507 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.529 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.538 ms
Loss rate: 0.35%
```

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SReAM

Start at: 2018-03-06 12:35:42

End at: 2018-03-06 12:36:12

Local clock offset: -4.781 ms

Remote clock offset: 6.863 ms

Below is generated by plot.py at 2018-03-06 22:56:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 1.283 ms

Loss rate: 0.13%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.280 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.20%

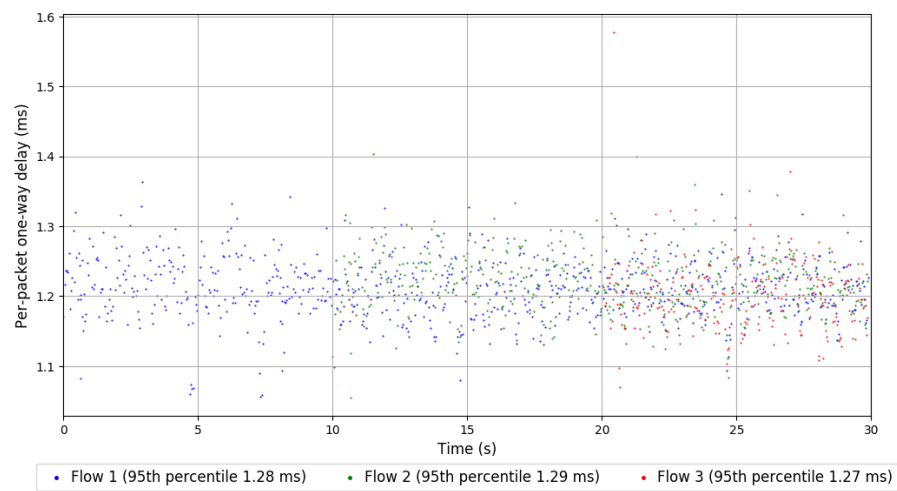
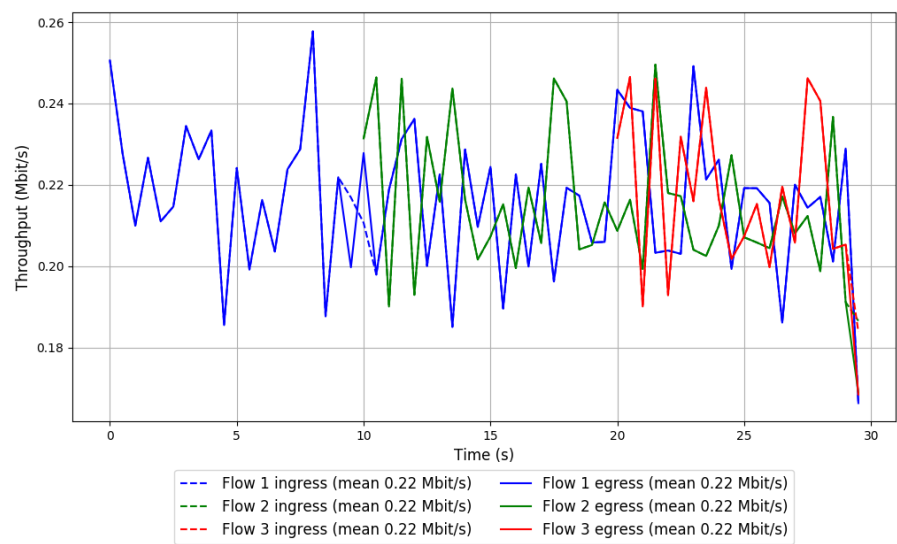
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.270 ms

Loss rate: 0.35%

Run 2: Report of SReAM — Data Link

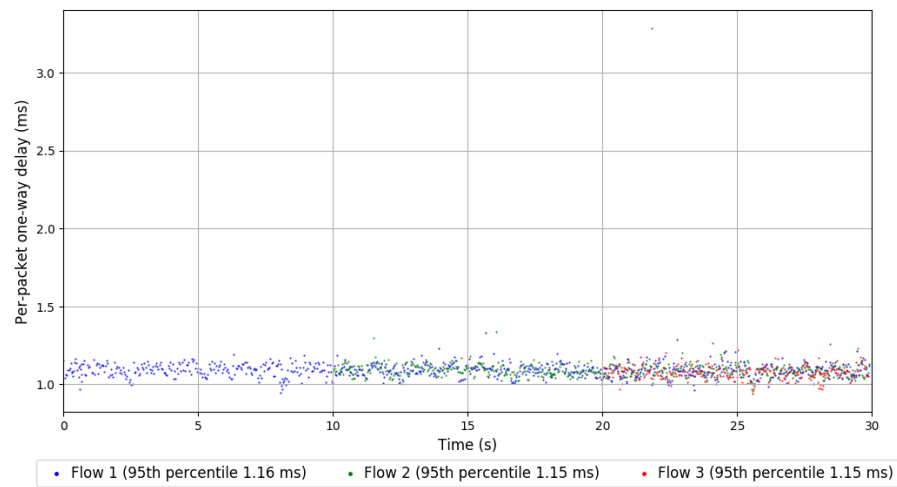
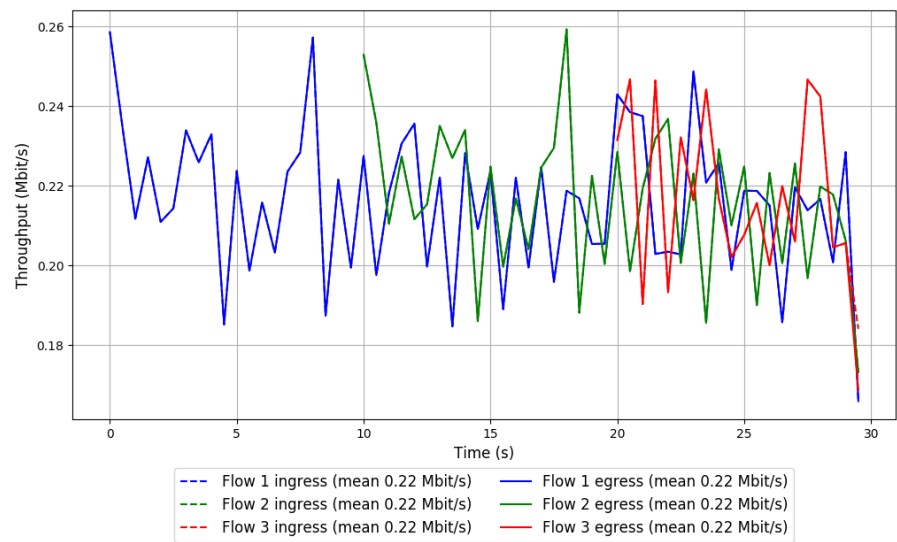


Run 3: Statistics of SReAM

Start at: 2018-03-06 13:05:24
End at: 2018-03-06 13:05:54
Local clock offset: -4.803 ms
Remote clock offset: 4.578 ms

Below is generated by plot.py at 2018-03-06 22:56:11
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 1.151 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.155 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.150 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.151 ms
Loss rate: 0.35%

Run 3: Report of SReAM — Data Link

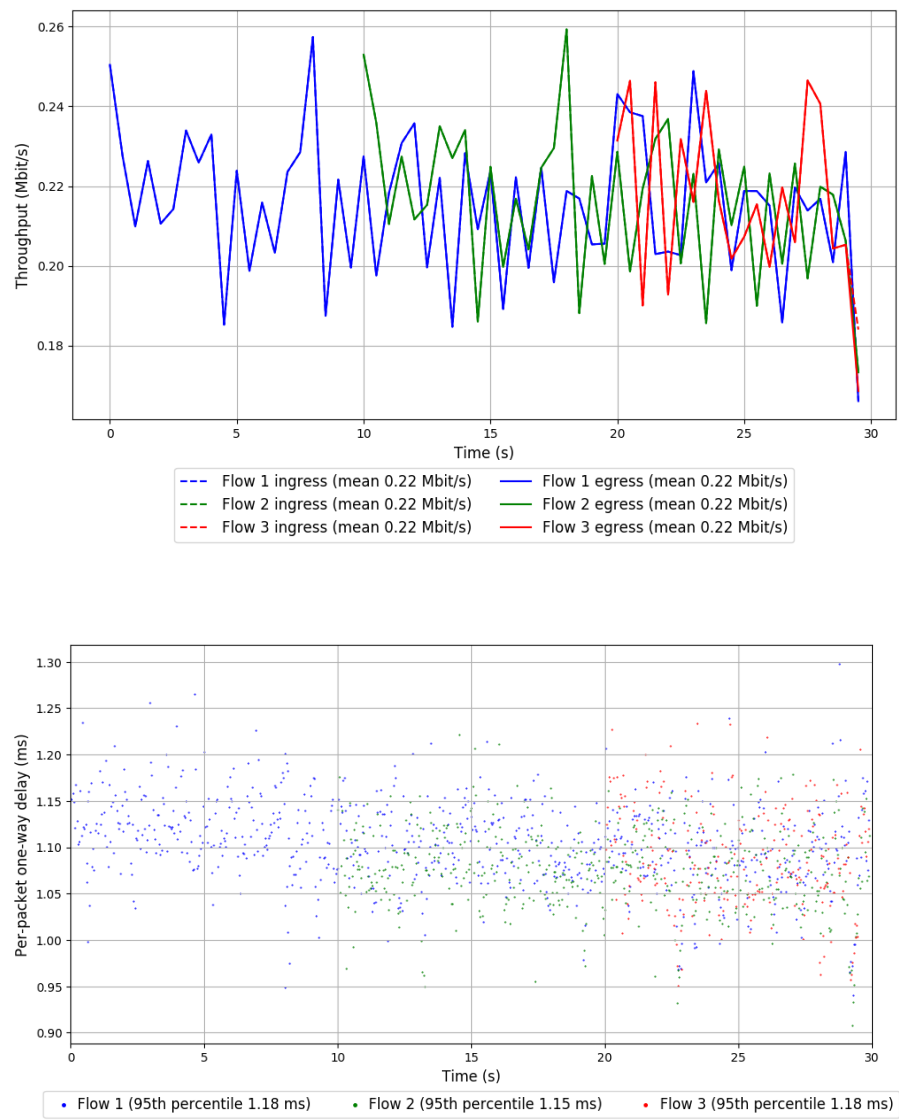


Run 4: Statistics of SReAM

Start at: 2018-03-06 13:34:27
End at: 2018-03-06 13:34:57
Local clock offset: -4.75 ms
Remote clock offset: -0.253 ms

Below is generated by plot.py at 2018-03-06 22:56:11
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 1.171 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.175 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.149 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.176 ms
Loss rate: 0.35%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SReAM

Start at: 2018-03-06 14:04:13

End at: 2018-03-06 14:04:43

Local clock offset: 3.517 ms

Remote clock offset: 0.523 ms

Below is generated by plot.py at 2018-03-06 22:56:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

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

Loss rate: 0.06%

-- Flow 1:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.00%

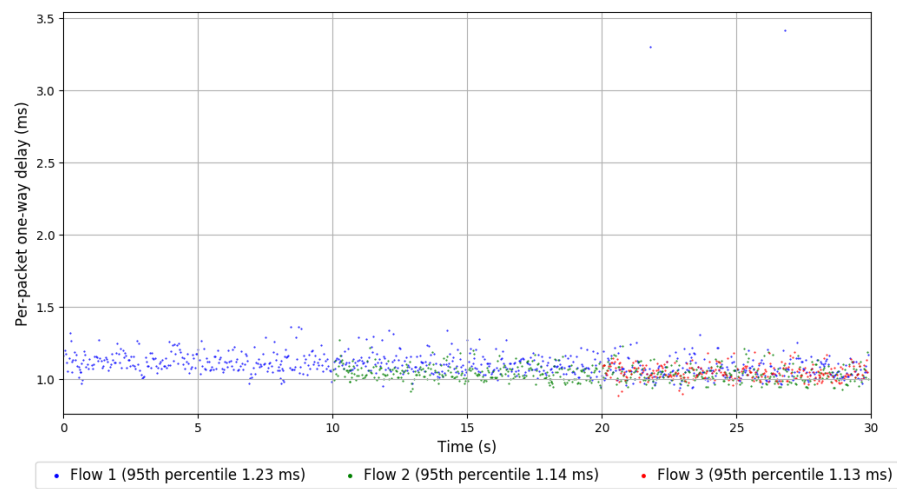
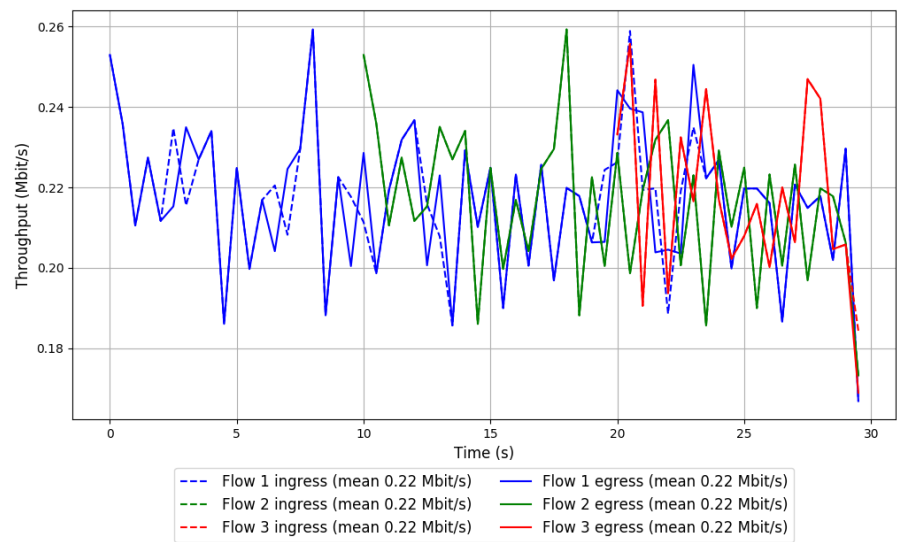
-- Flow 3:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.35%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SReAM

Start at: 2018-03-06 14:33:35

End at: 2018-03-06 14:34:05

Local clock offset: 4.609 ms

Remote clock offset: 1.622 ms

Below is generated by plot.py at 2018-03-06 22:56:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.291 ms

Loss rate: 0.00%

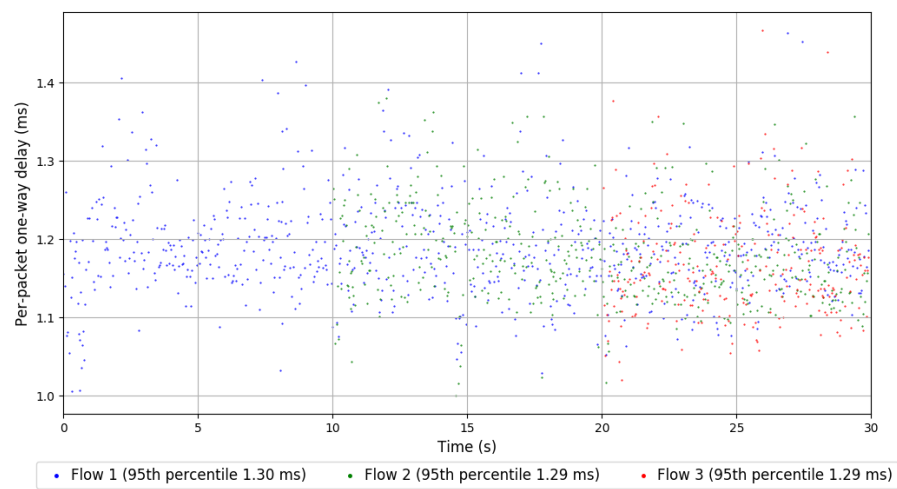
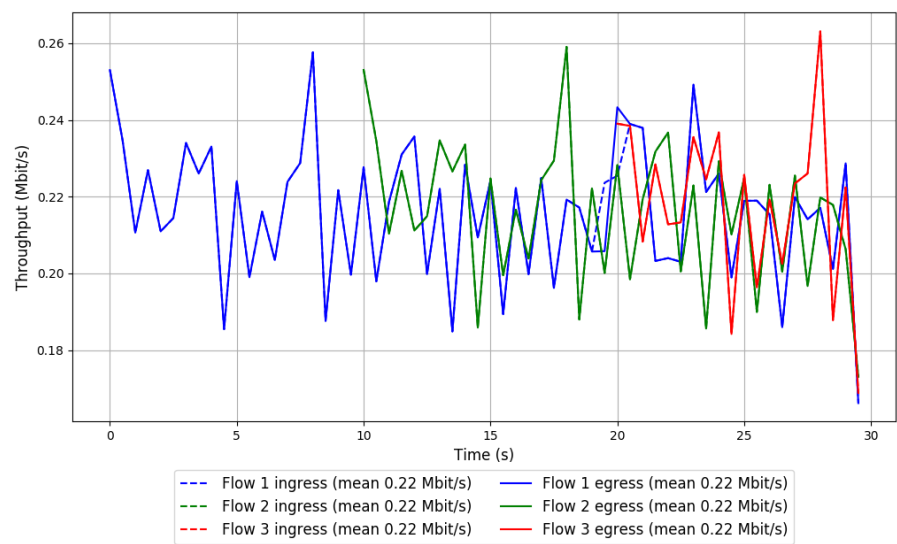
-- Flow 3:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.00%

Run 6: Report of SReAM — Data Link

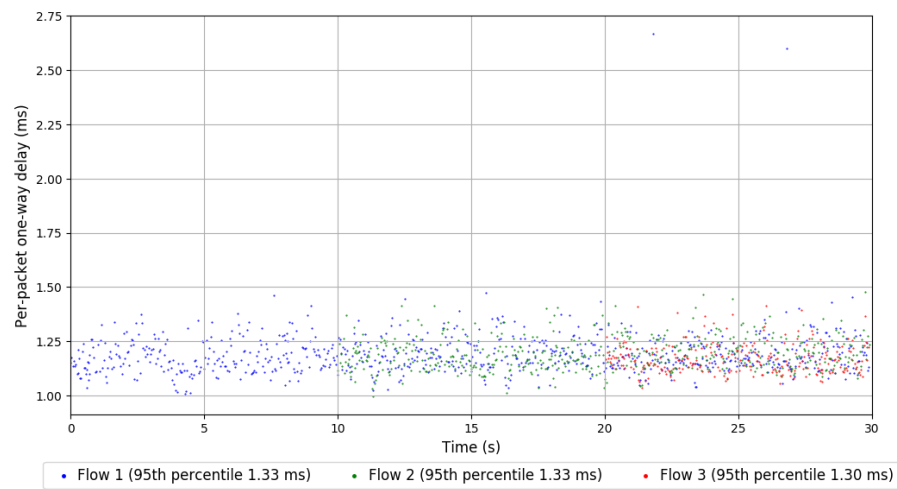
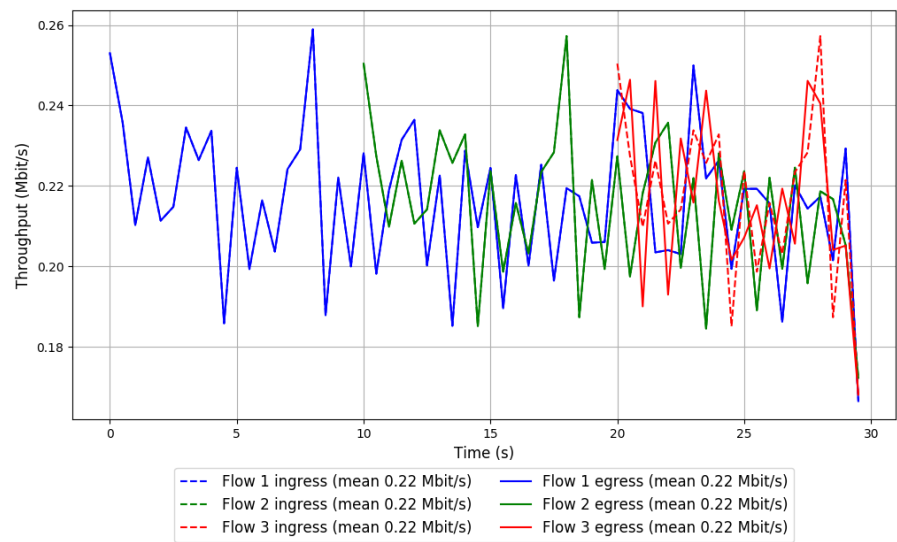


```
Run 7: Statistics of SReAM

Start at: 2018-03-06 15:08:03
End at: 2018-03-06 15:08:33
Local clock offset: 0.955 ms
Remote clock offset: 2.22 ms

# Below is generated by plot.py at 2018-03-06 22:56:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 1.326 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.328 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.335 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 7: Report of SReAM — Data Link



Run 8: Statistics of SReAM

Start at: 2018-03-06 15:37:14

End at: 2018-03-06 15:37:44

Local clock offset: 0.594 ms

Remote clock offset: 2.379 ms

Below is generated by plot.py at 2018-03-06 22:56:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

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

Loss rate: 0.19%

-- Flow 1:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.13%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.148 ms

Loss rate: 0.20%

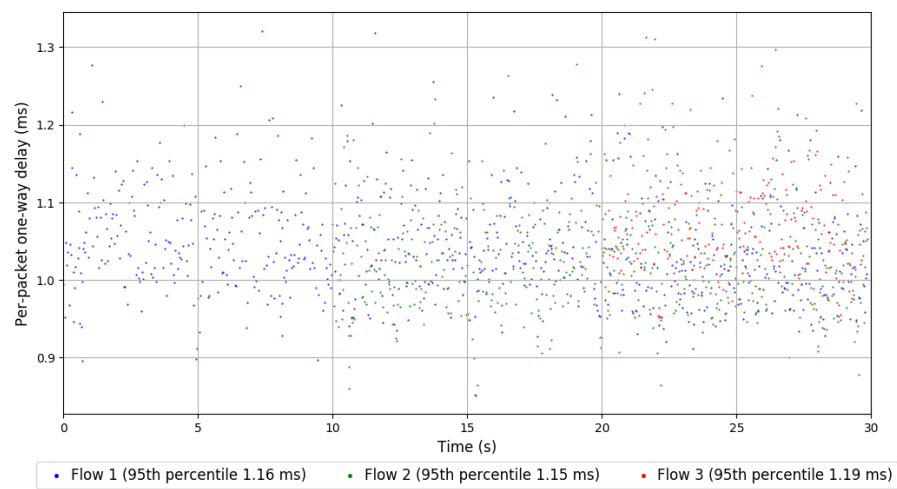
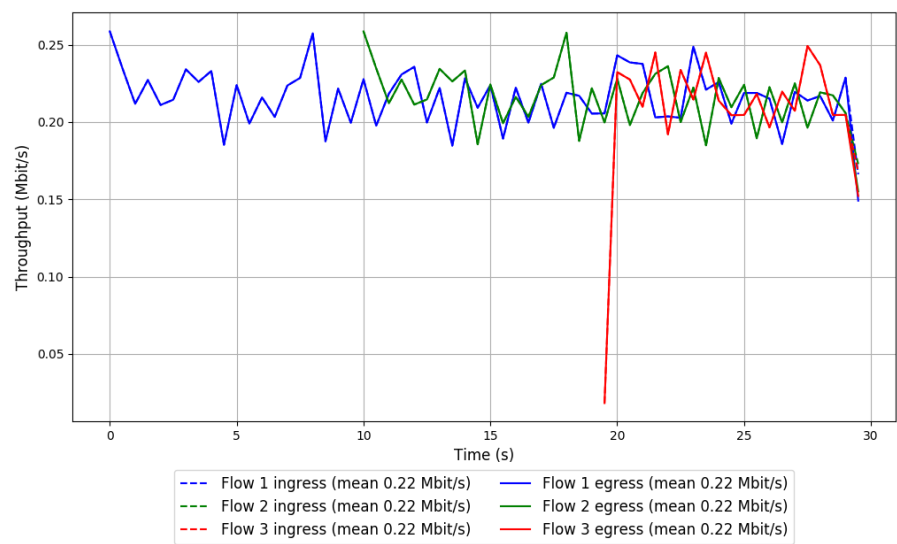
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.188 ms

Loss rate: 0.35%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SReAM

Start at: 2018-03-06 16:06:34

End at: 2018-03-06 16:07:04

Local clock offset: -1.061 ms

Remote clock offset: 2.166 ms

Below is generated by plot.py at 2018-03-06 22:56:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 1.321 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.328 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.297 ms

Loss rate: 0.00%

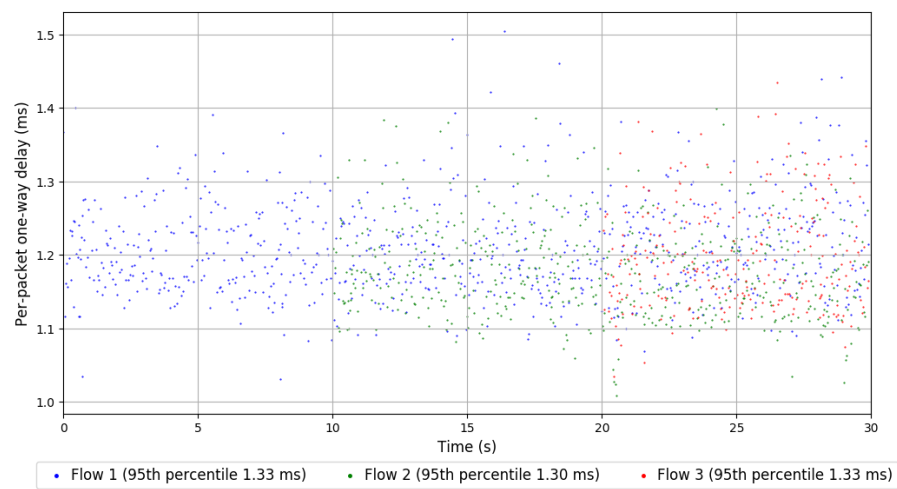
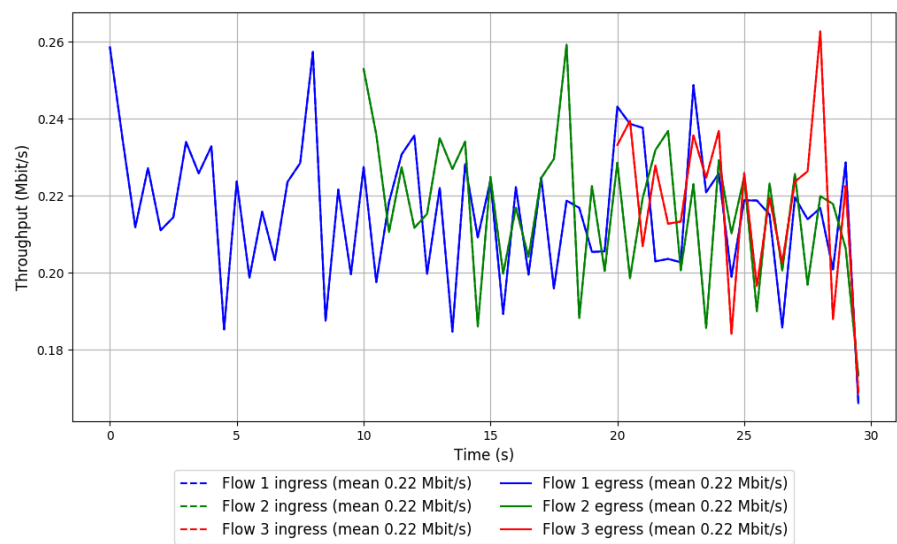
-- Flow 3:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SCReAM

Start at: 2018-03-06 16:35:29

End at: 2018-03-06 16:35:59

Local clock offset: -4.777 ms

Remote clock offset: 1.607 ms

Below is generated by plot.py at 2018-03-06 22:56:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 1.456 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.455 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.449 ms

Loss rate: 0.00%

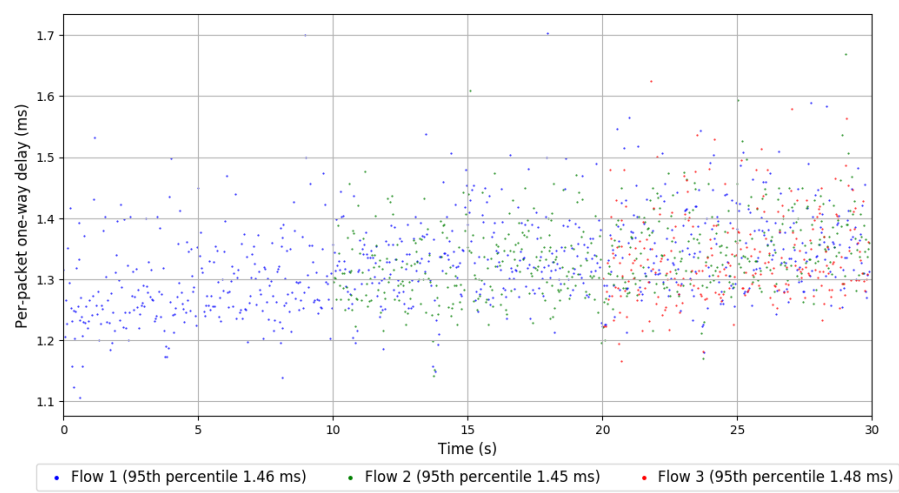
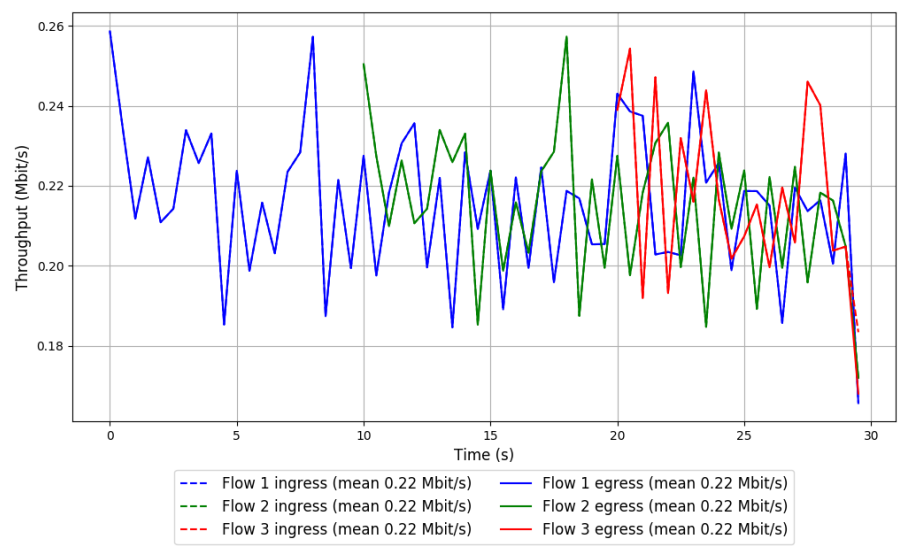
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.479 ms

Loss rate: 0.35%

Run 10: Report of SReAM — Data Link

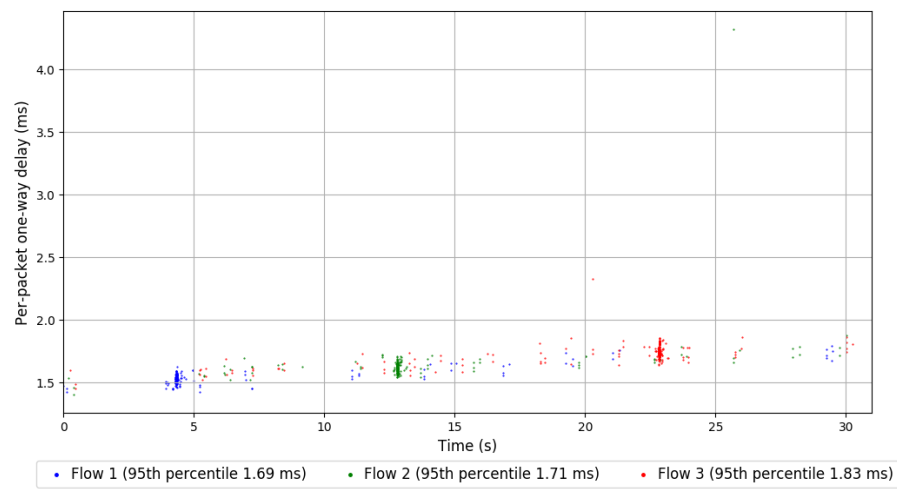
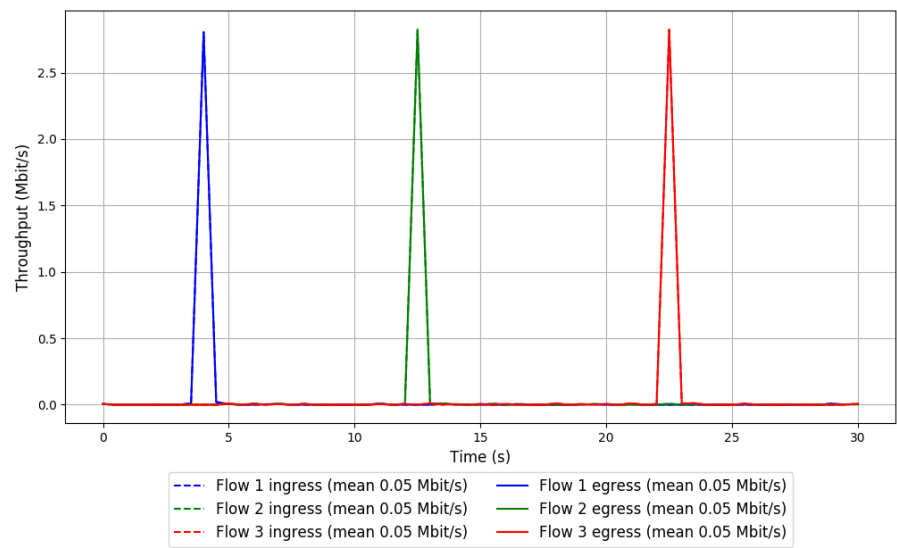


```
Run 1: Statistics of WebRTC media

Start at: 2018-03-06 11:59:38
End at: 2018-03-06 12:00:08
Local clock offset: 0.586 ms
Remote clock offset: 4.95 ms

# Below is generated by plot.py at 2018-03-06 22:56:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 1.805 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 1.689 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 1.714 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 1.831 ms
Loss rate: 0.00%
```


Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-03-06 12:29:18

End at: 2018-03-06 12:29:48

Local clock offset: -5.07 ms

Remote clock offset: 6.503 ms

Below is generated by plot.py at 2018-03-06 22:56:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.14 Mbit/s

95th percentile per-packet one-way delay: 1.096 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 1.054 ms

Loss rate: 0.00%

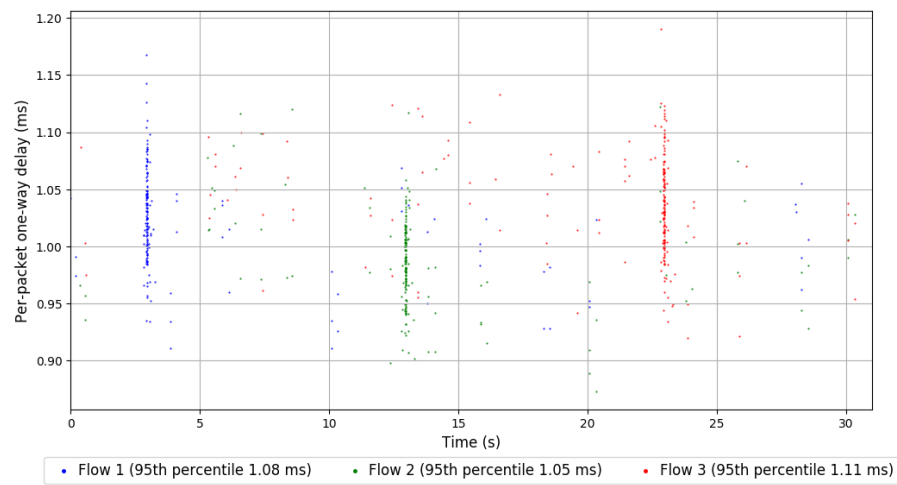
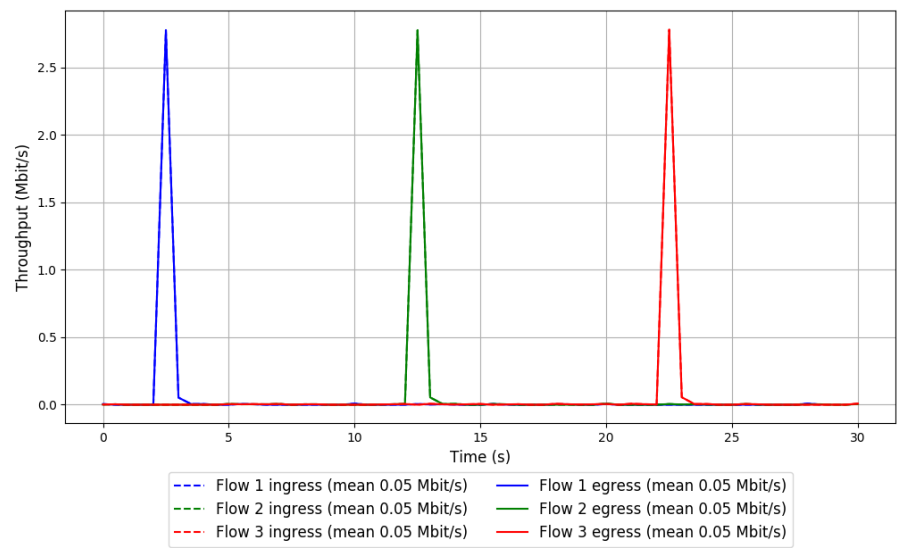
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 1.110 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link

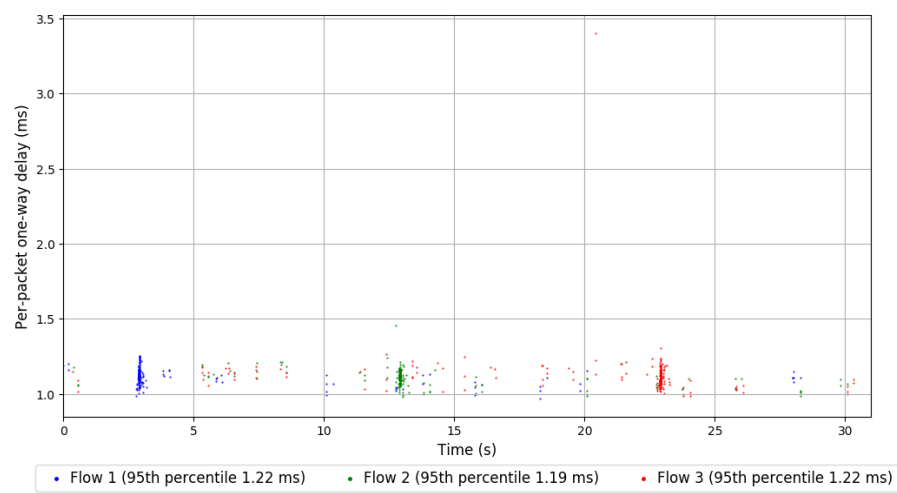
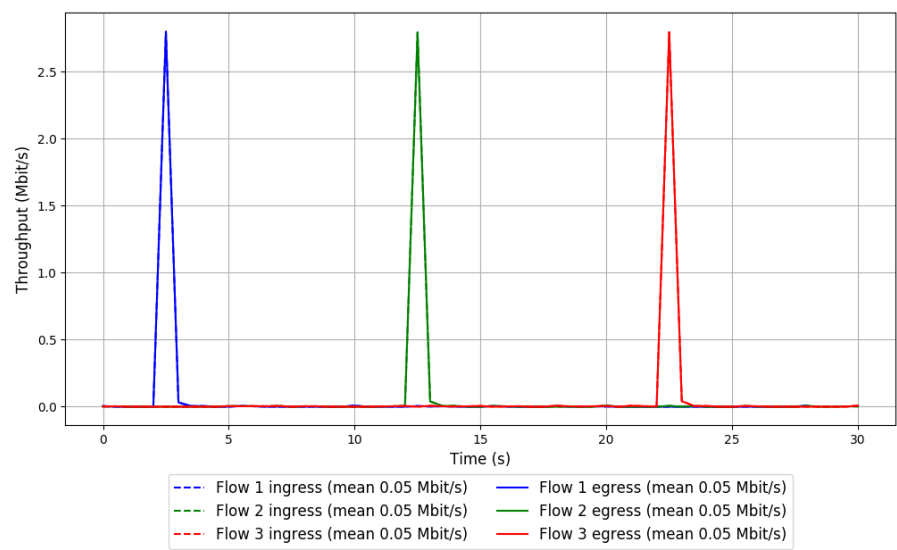


Run 3: Statistics of WebRTC media

Start at: 2018-03-06 12:58:54
End at: 2018-03-06 12:59:24
Local clock offset: -4.831 ms
Remote clock offset: 4.642 ms

Below is generated by plot.py at 2018-03-06 22:56:11
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 1.207 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 1.223 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 1.186 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 1.215 ms
Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-03-06 13:28:08

End at: 2018-03-06 13:28:38

Local clock offset: -4.678 ms

Remote clock offset: 0.478 ms

Below is generated by plot.py at 2018-03-06 22:56:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.15 Mbit/s

95th percentile per-packet one-way delay: 1.149 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 1.169 ms

Loss rate: 0.00%

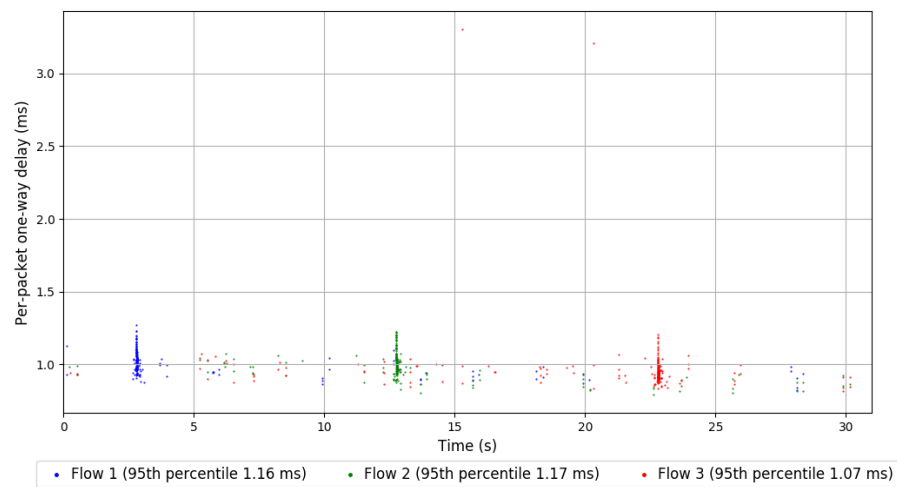
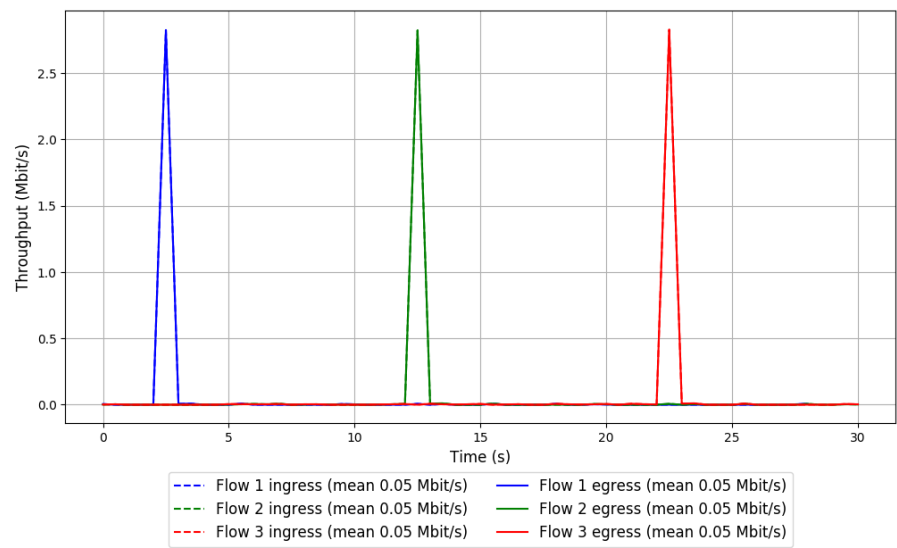
-- Flow 3:

Average throughput: 0.05 Mbit/s

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

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-03-06 13:57:42

End at: 2018-03-06 13:58:12

Local clock offset: 2.496 ms

Remote clock offset: 0.388 ms

Below is generated by plot.py at 2018-03-06 22:56:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.15 Mbit/s

95th percentile per-packet one-way delay: 0.967 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 0.935 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 0.985 ms

Loss rate: 0.00%

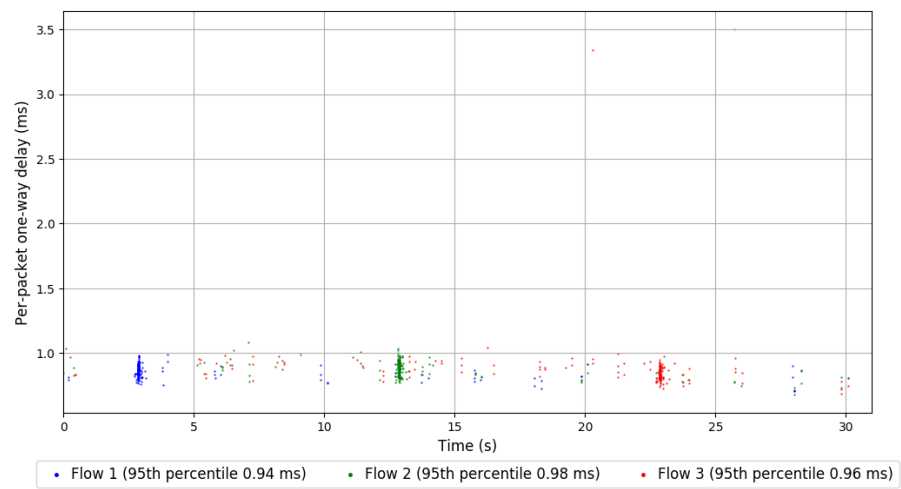
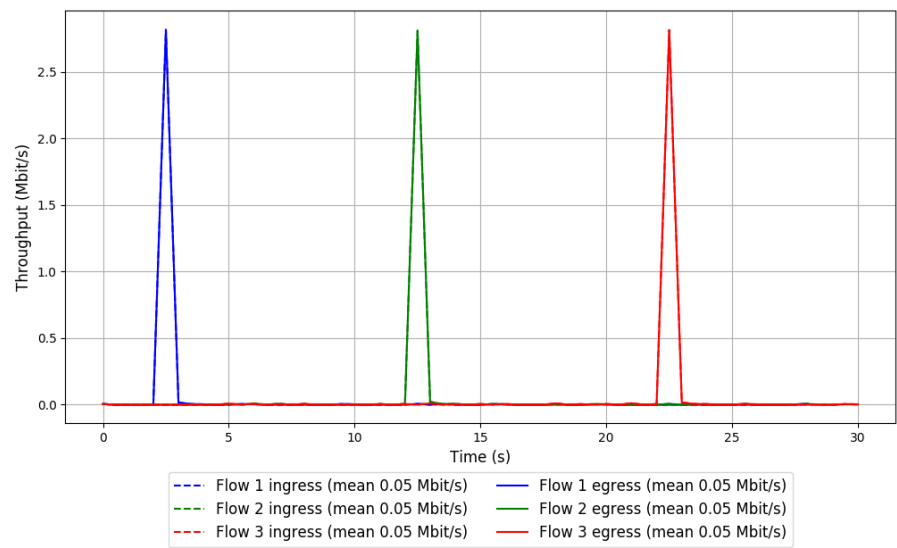
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 0.961 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-03-06 14:27:08

End at: 2018-03-06 14:27:38

Local clock offset: 4.173 ms

Remote clock offset: 1.224 ms

Below is generated by plot.py at 2018-03-06 22:56:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.15 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 1.243 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 1.294 ms

Loss rate: 0.00%

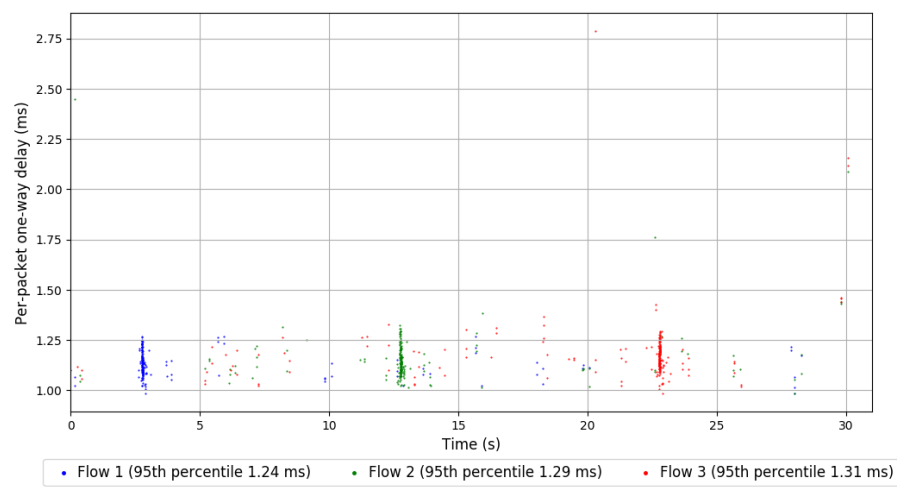
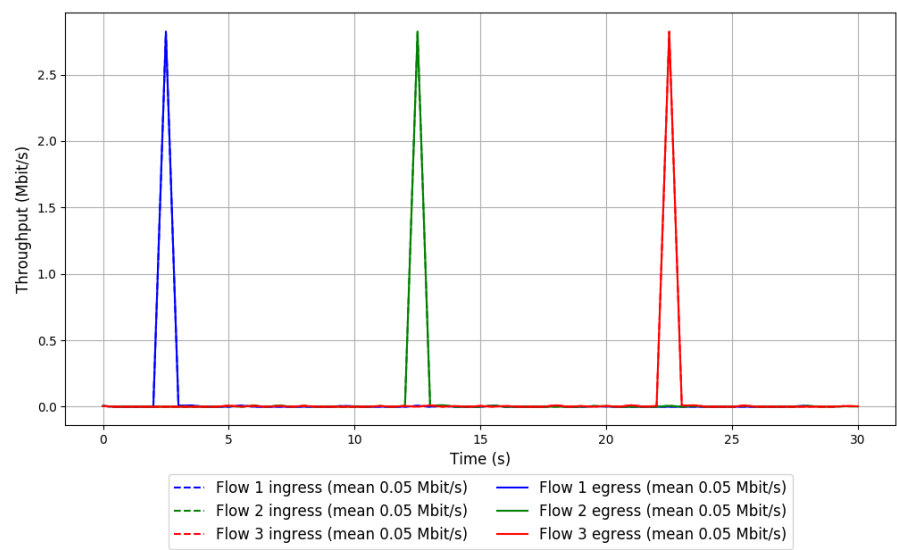
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 1.309 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-03-06 15:01:41

End at: 2018-03-06 15:02:11

Local clock offset: 1.66 ms

Remote clock offset: 2.125 ms

Below is generated by plot.py at 2018-03-06 22:56:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.15 Mbit/s

95th percentile per-packet one-way delay: 1.773 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 1.748 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 1.757 ms

Loss rate: 0.00%

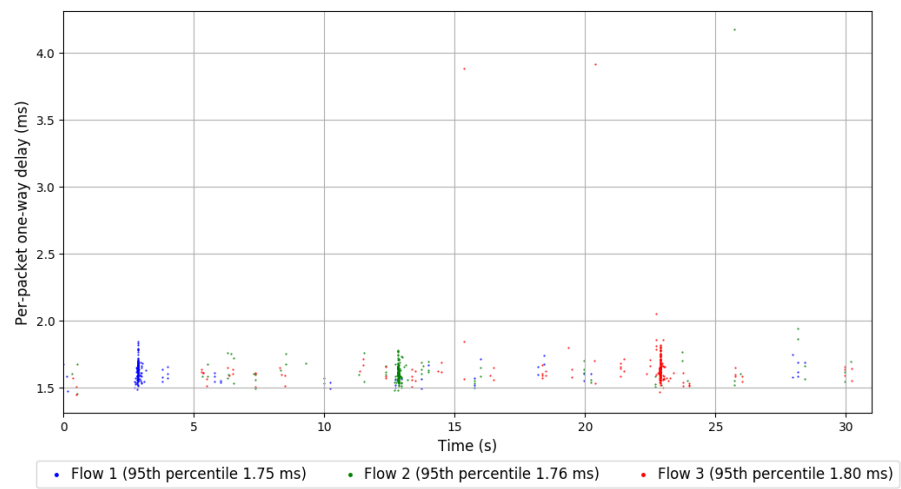
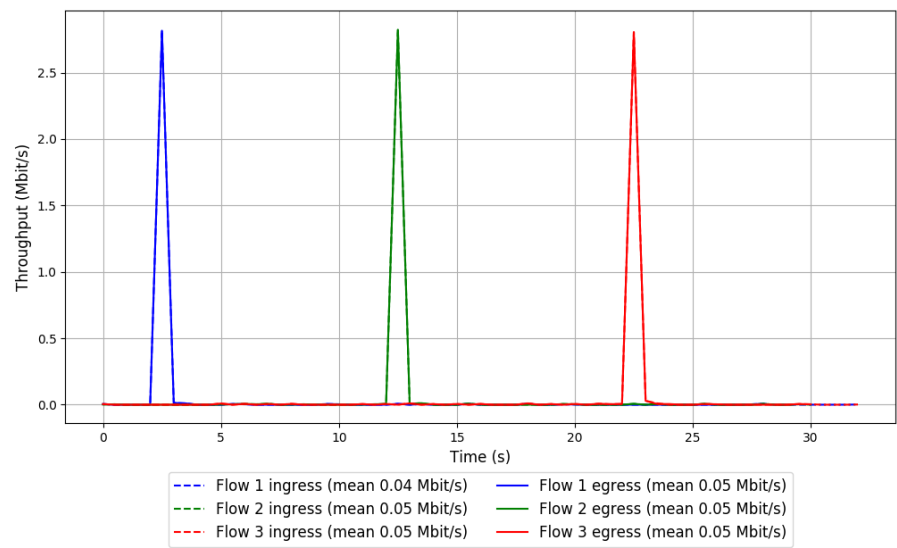
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 1.801 ms

Loss rate: 0.05%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-03-06 15:30:52

End at: 2018-03-06 15:31:22

Local clock offset: 0.699 ms

Remote clock offset: 2.345 ms

Below is generated by plot.py at 2018-03-06 22:56:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.15 Mbit/s

95th percentile per-packet one-way delay: 1.204 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 0.05 Mbit/s

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

Loss rate: 0.05%

-- Flow 2:

Average throughput: 0.05 Mbit/s

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

Loss rate: 0.05%

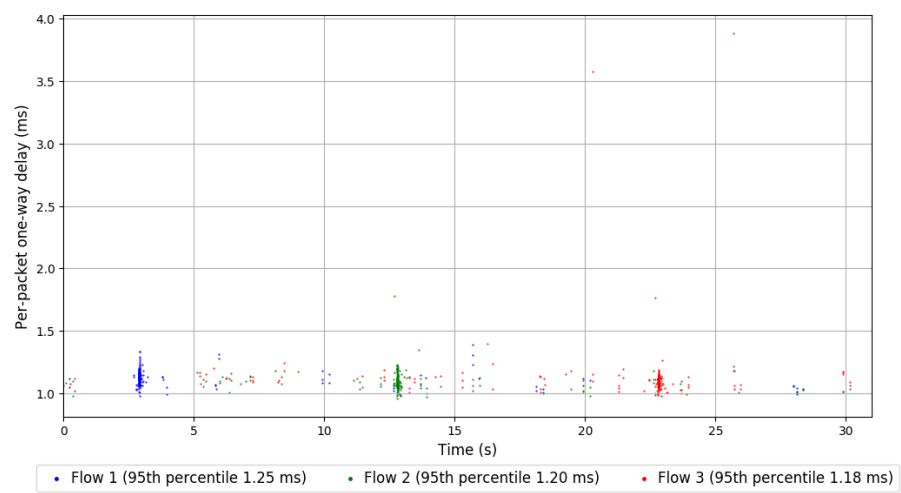
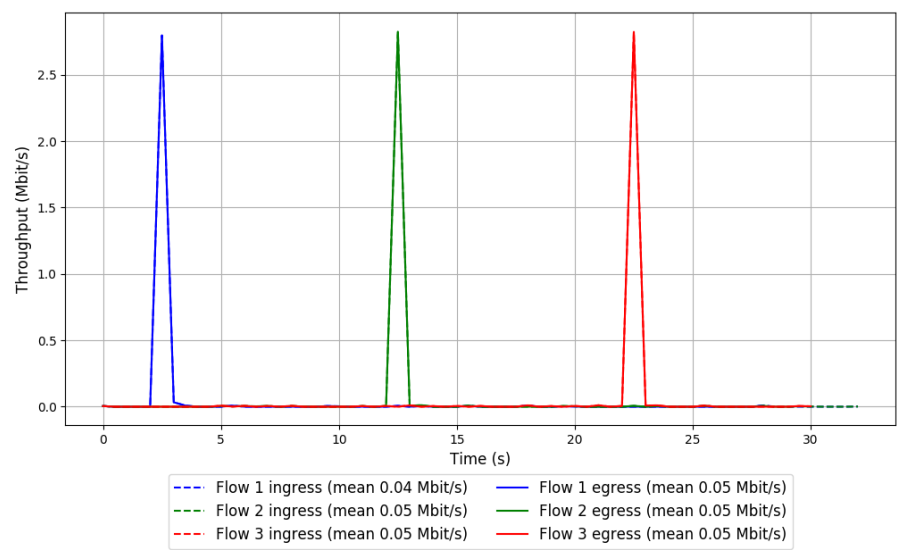
-- Flow 3:

Average throughput: 0.05 Mbit/s

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

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-03-06 16:00:13

End at: 2018-03-06 16:00:43

Local clock offset: -0.48 ms

Remote clock offset: 2.407 ms

Below is generated by plot.py at 2018-03-06 22:56:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.15 Mbit/s

95th percentile per-packet one-way delay: 1.374 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 1.383 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 1.339 ms

Loss rate: 0.00%

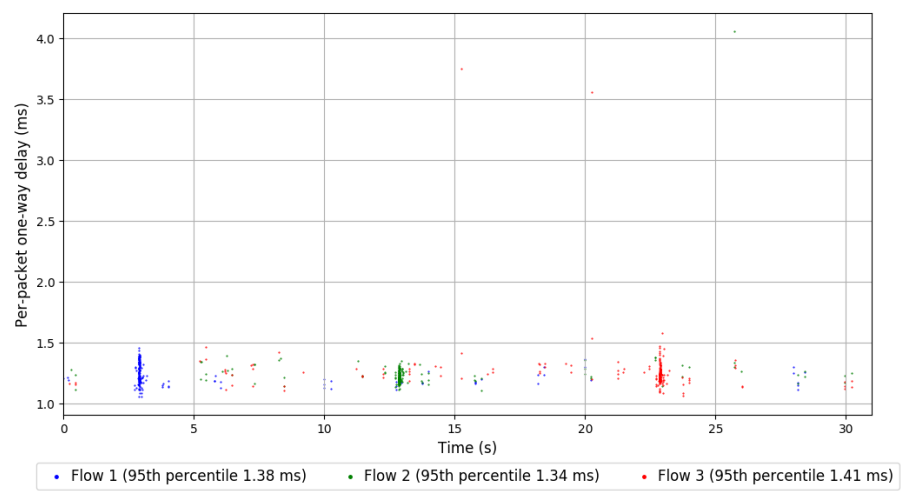
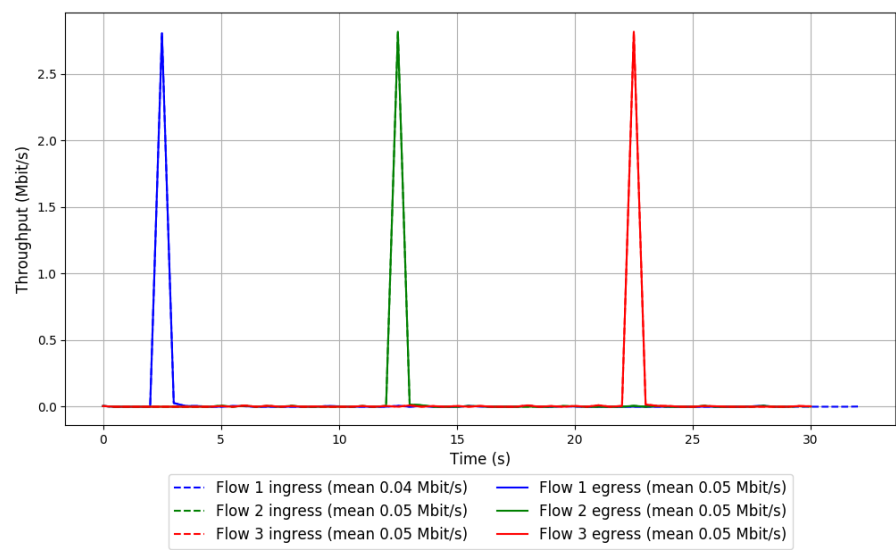
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 1.413 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-03-06 16:29:08

End at: 2018-03-06 16:29:38

Local clock offset: -3.021 ms

Remote clock offset: 1.65 ms

Below is generated by plot.py at 2018-03-06 22:56:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.15 Mbit/s

95th percentile per-packet one-way delay: 2.546 ms

Loss rate: 3.44%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 2.139 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 2.599 ms

Loss rate: 9.63%

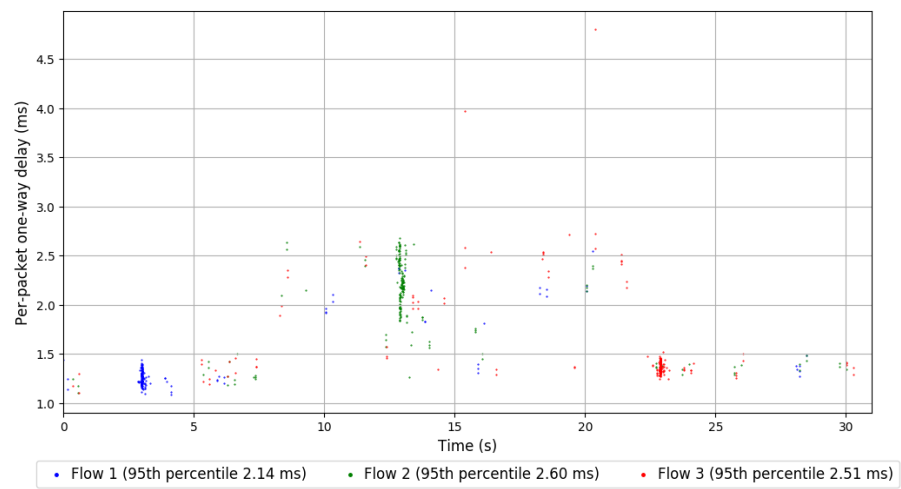
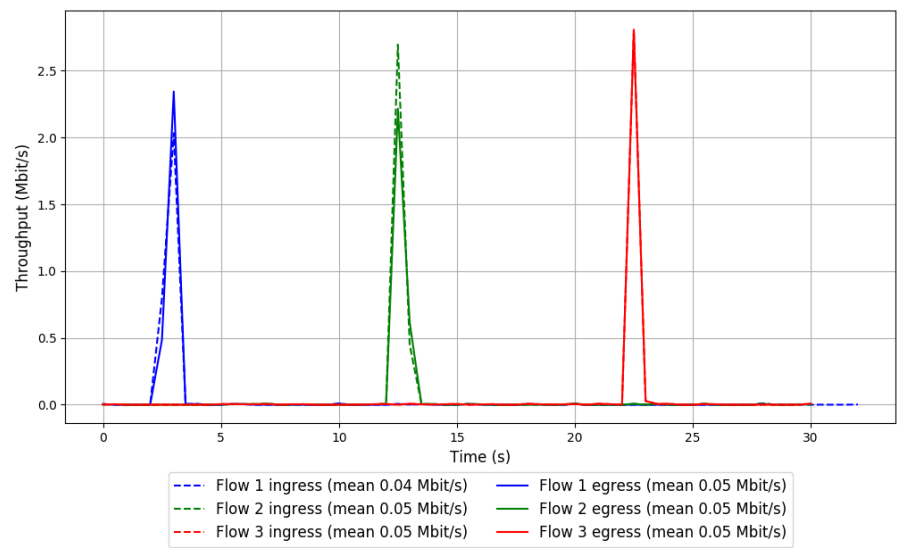
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 2.513 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

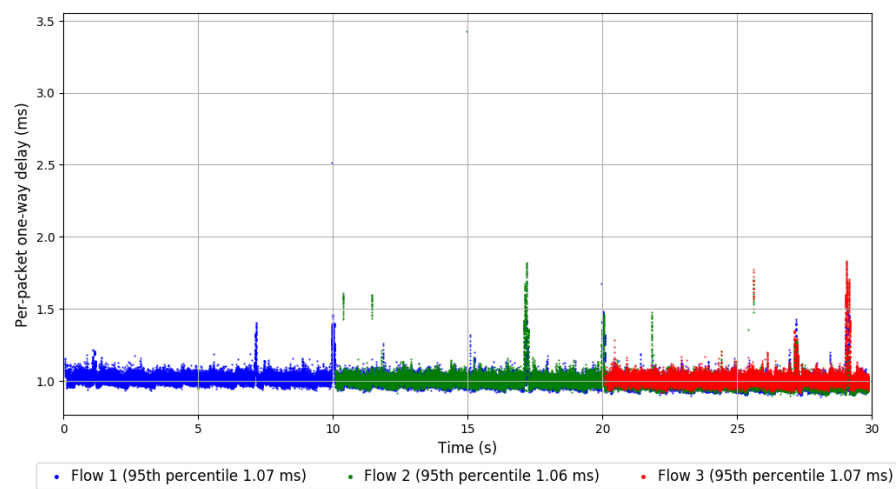
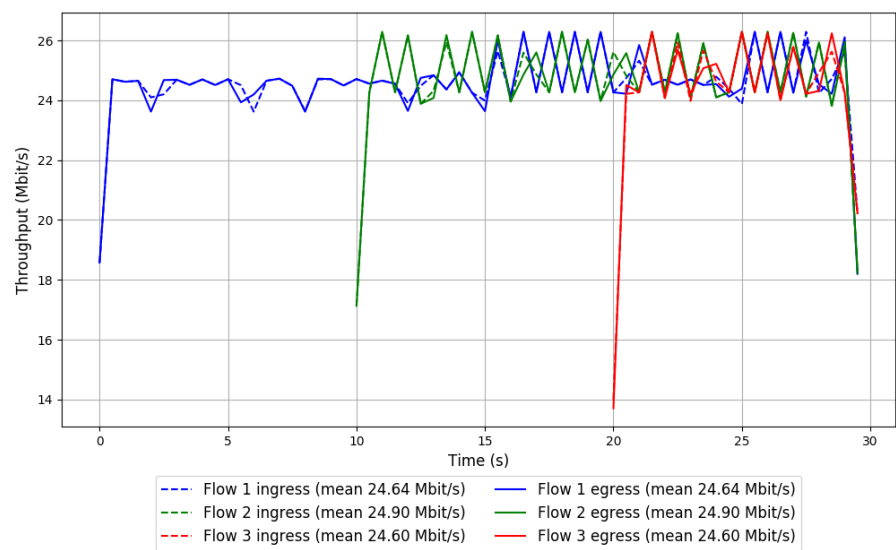


Run 1: Statistics of Sprout

Start at: 2018-03-06 11:51:50
End at: 2018-03-06 11:52:20
Local clock offset: 5.734 ms
Remote clock offset: 4.558 ms

```
# Below is generated by plot.py at 2018-03-06 22:56:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 49.24 Mbit/s
95th percentile per-packet one-way delay: 1.065 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 24.64 Mbit/s
95th percentile per-packet one-way delay: 1.066 ms
Loss rate: 0.14%
-- Flow 2:
Average throughput: 24.90 Mbit/s
95th percentile per-packet one-way delay: 1.059 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 24.60 Mbit/s
95th percentile per-packet one-way delay: 1.071 ms
Loss rate: 0.00%
```

Run 1: Report of Sprout — Data Link

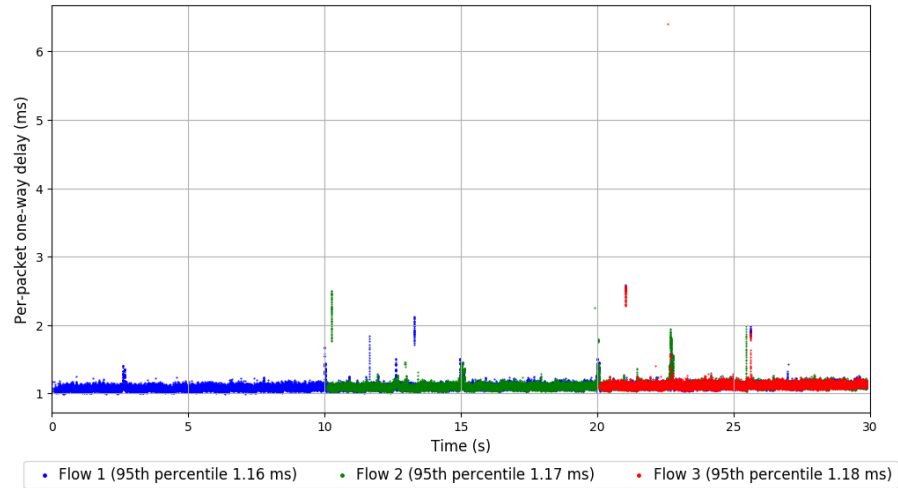
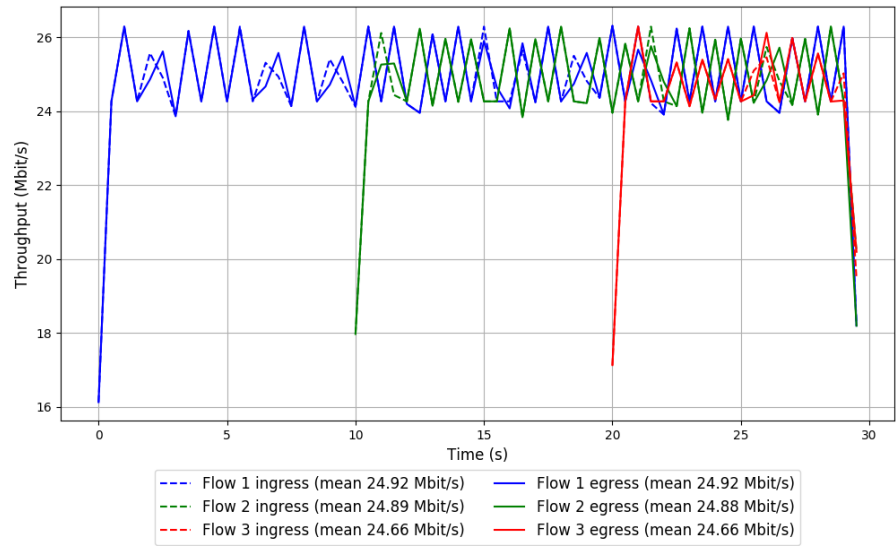


Run 2: Statistics of Sprout

Start at: 2018-03-06 12:21:35
End at: 2018-03-06 12:22:05
Local clock offset: -4.784 ms
Remote clock offset: 6.111 ms

```
# Below is generated by plot.py at 2018-03-06 22:56:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 49.52 Mbit/s
95th percentile per-packet one-way delay: 1.170 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 24.92 Mbit/s
95th percentile per-packet one-way delay: 1.164 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 24.88 Mbit/s
95th percentile per-packet one-way delay: 1.173 ms
Loss rate: 0.20%
-- Flow 3:
Average throughput: 24.66 Mbit/s
95th percentile per-packet one-way delay: 1.176 ms
Loss rate: 0.00%
```

Run 2: Report of Sprout — Data Link

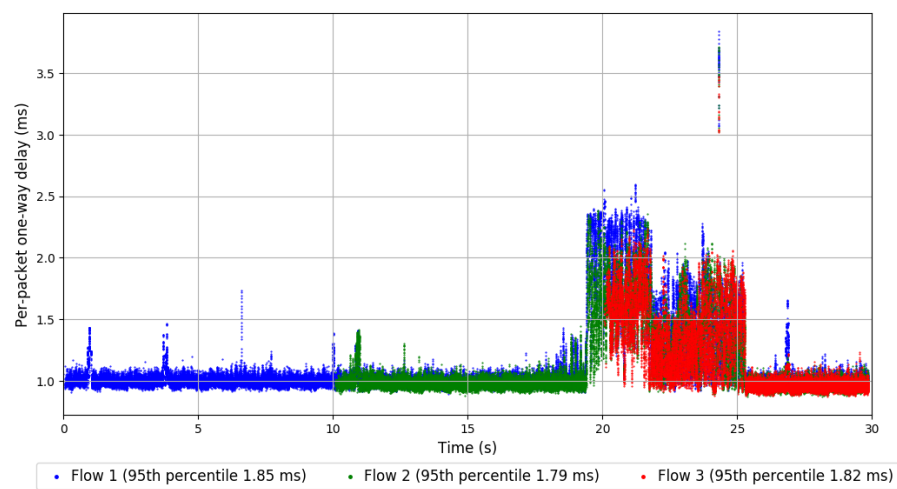
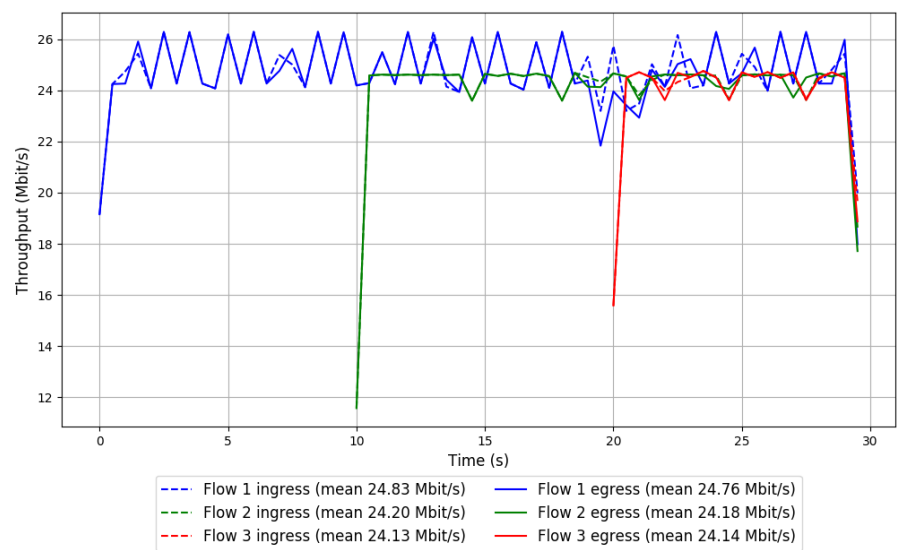


Run 3: Statistics of Sprout

Start at: 2018-03-06 12:51:16
End at: 2018-03-06 12:51:46
Local clock offset: -4.887 ms
Remote clock offset: 4.952 ms

```
# Below is generated by plot.py at 2018-03-06 22:56:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 48.72 Mbit/s
95th percentile per-packet one-way delay: 1.819 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 24.76 Mbit/s
95th percentile per-packet one-way delay: 1.852 ms
Loss rate: 0.45%
-- Flow 2:
Average throughput: 24.18 Mbit/s
95th percentile per-packet one-way delay: 1.794 ms
Loss rate: 0.16%
-- Flow 3:
Average throughput: 24.14 Mbit/s
95th percentile per-packet one-way delay: 1.817 ms
Loss rate: 0.16%
```


Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-03-06 13:20:32

End at: 2018-03-06 13:21:02

Local clock offset: -4.66 ms

Remote clock offset: 1.711 ms

Below is generated by plot.py at 2018-03-06 22:56:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 48.83 Mbit/s

95th percentile per-packet one-way delay: 0.999 ms

Loss rate: 0.16%

-- Flow 1:

Average throughput: 24.30 Mbit/s

95th percentile per-packet one-way delay: 1.012 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 24.79 Mbit/s

95th percentile per-packet one-way delay: 0.981 ms

Loss rate: 0.21%

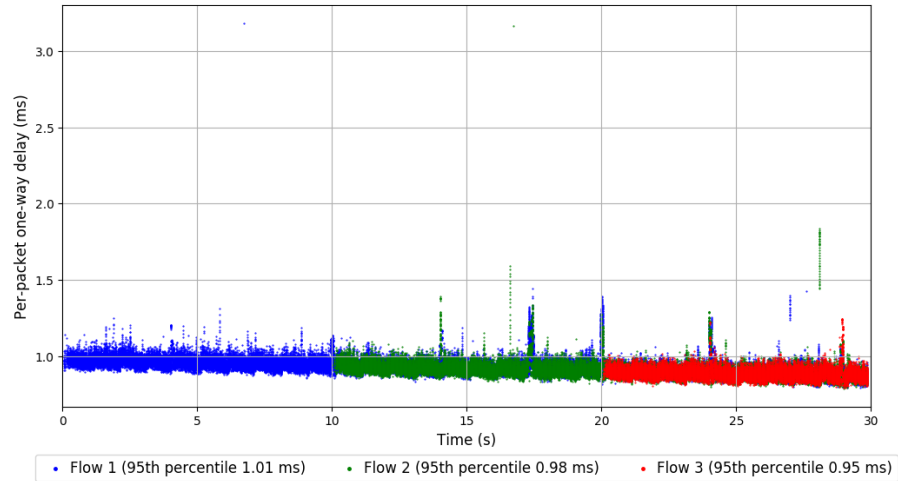
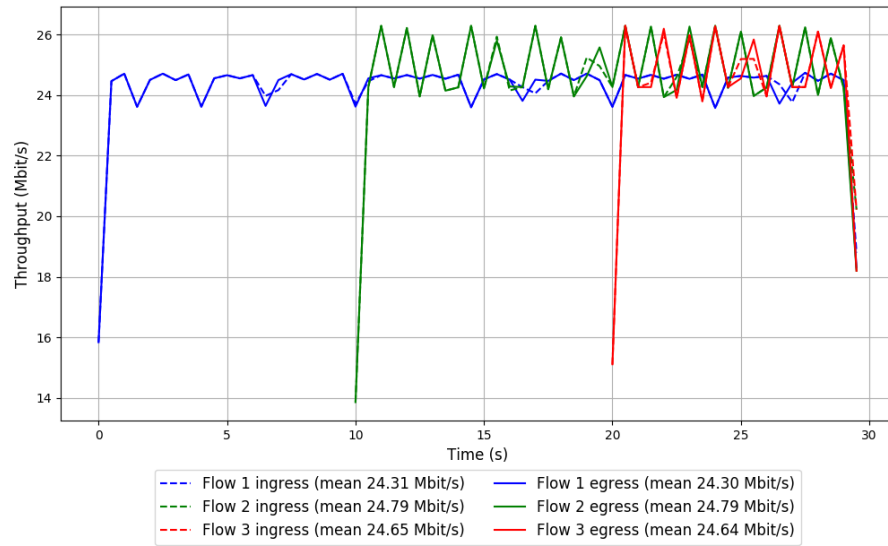
-- Flow 3:

Average throughput: 24.64 Mbit/s

95th percentile per-packet one-way delay: 0.950 ms

Loss rate: 0.42%

Run 4: Report of Sprout — Data Link

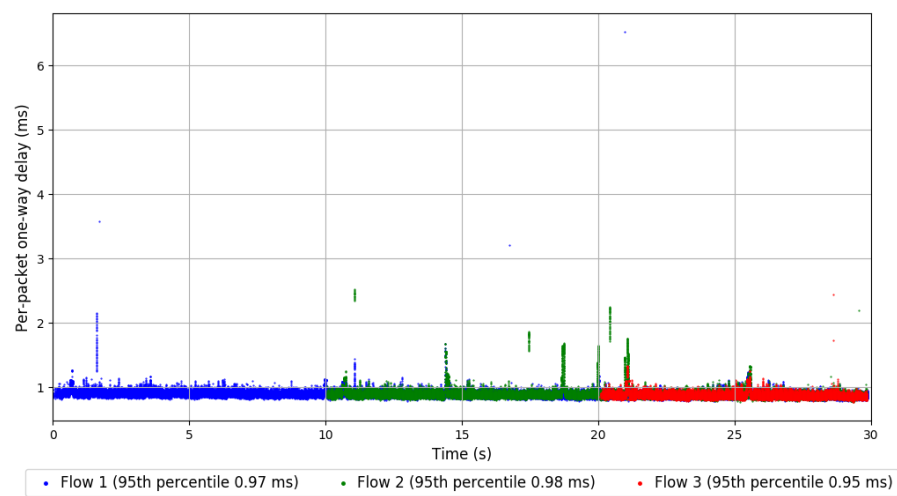
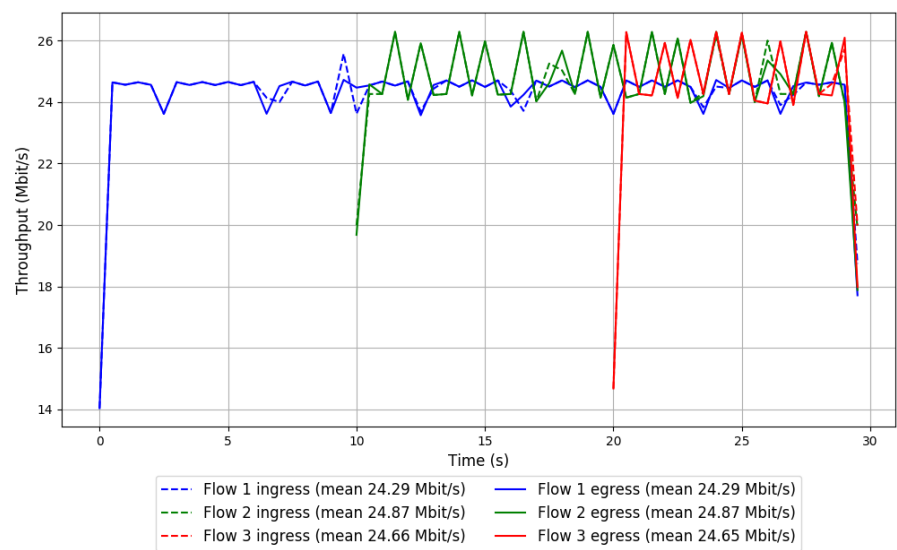


Run 5: Statistics of Sprout

Start at: 2018-03-06 13:50:05
End at: 2018-03-06 13:50:35
Local clock offset: 1.054 ms
Remote clock offset: -0.377 ms

Below is generated by plot.py at 2018-03-06 22:56:11
Datalink statistics
-- Total of 3 flows:
Average throughput: 48.90 Mbit/s
95th percentile per-packet one-way delay: 0.973 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 24.29 Mbit/s
95th percentile per-packet one-way delay: 0.974 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 24.87 Mbit/s
95th percentile per-packet one-way delay: 0.981 ms
Loss rate: 0.20%
-- Flow 3:
Average throughput: 24.65 Mbit/s
95th percentile per-packet one-way delay: 0.954 ms
Loss rate: 0.41%

Run 5: Report of Sprout — Data Link

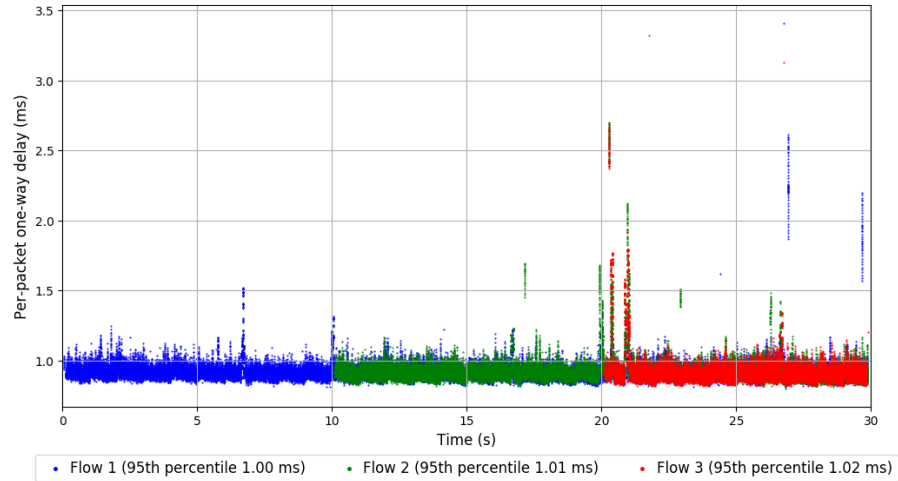
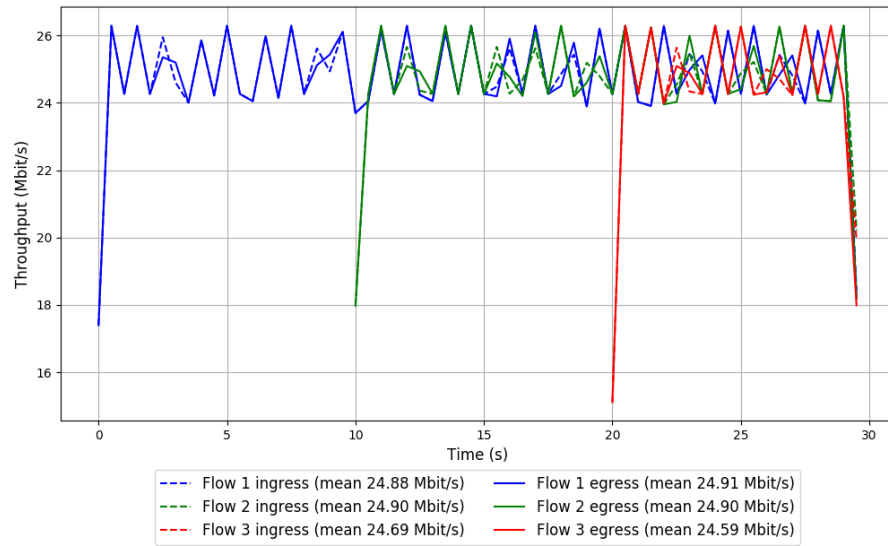


Run 6: Statistics of Sprout

Start at: 2018-03-06 14:19:29
End at: 2018-03-06 14:19:59
Local clock offset: 3.793 ms
Remote clock offset: 0.5 ms

```
# Below is generated by plot.py at 2018-03-06 22:56:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 49.51 Mbit/s
95th percentile per-packet one-way delay: 1.008 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 24.91 Mbit/s
95th percentile per-packet one-way delay: 1.001 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 24.90 Mbit/s
95th percentile per-packet one-way delay: 1.015 ms
Loss rate: 0.20%
-- Flow 3:
Average throughput: 24.59 Mbit/s
95th percentile per-packet one-way delay: 1.024 ms
Loss rate: 0.40%
```

Run 6: Report of Sprout — Data Link

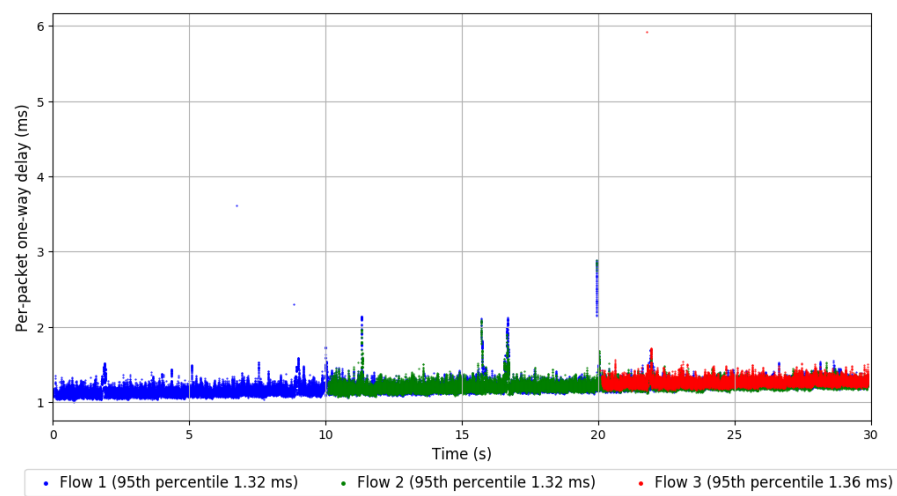
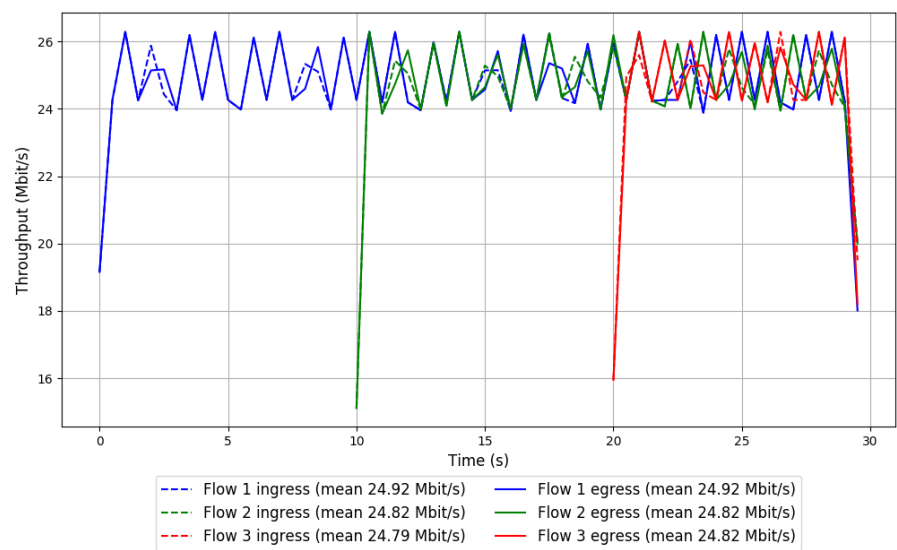


Run 7: Statistics of Sprout

Start at: 2018-03-06 14:49:03
End at: 2018-03-06 14:49:33
Local clock offset: 3.251 ms
Remote clock offset: 2.091 ms

```
# Below is generated by plot.py at 2018-03-06 22:56:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 49.52 Mbit/s
95th percentile per-packet one-way delay: 1.330 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 24.92 Mbit/s
95th percentile per-packet one-way delay: 1.318 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 24.82 Mbit/s
95th percentile per-packet one-way delay: 1.320 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 24.82 Mbit/s
95th percentile per-packet one-way delay: 1.357 ms
Loss rate: 0.27%
```


Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-03-06 15:23:23

End at: 2018-03-06 15:23:53

Local clock offset: 0.642 ms

Remote clock offset: 2.283 ms

Below is generated by plot.py at 2018-03-06 22:56:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 49.29 Mbit/s

95th percentile per-packet one-way delay: 1.189 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 24.87 Mbit/s

95th percentile per-packet one-way delay: 1.185 ms

Loss rate: 0.14%

-- Flow 2:

Average throughput: 24.88 Mbit/s

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

Loss rate: 0.00%

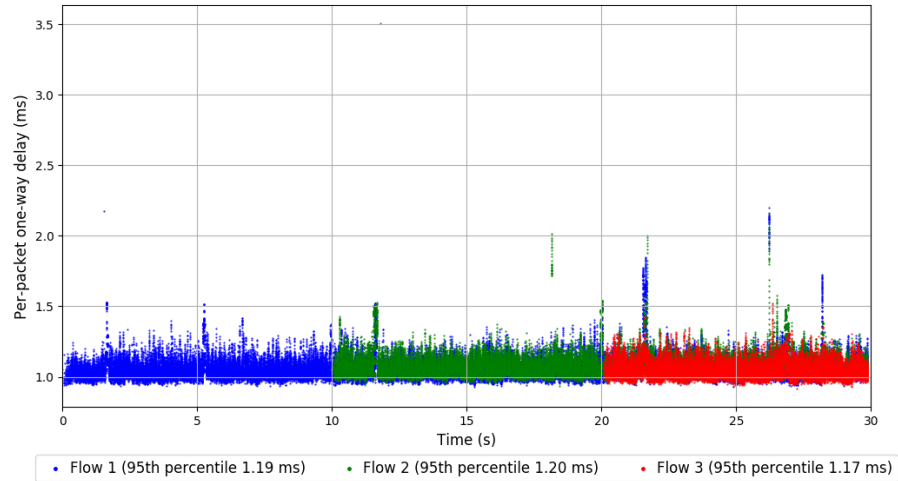
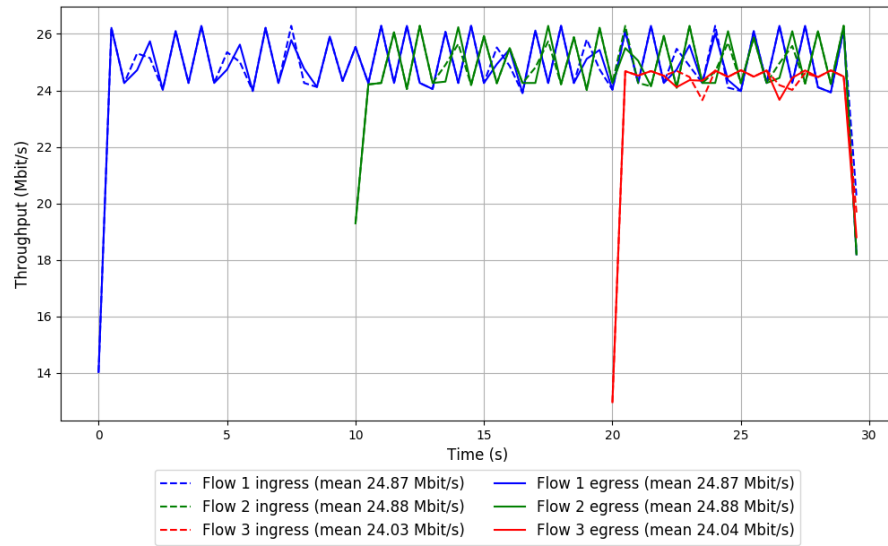
-- Flow 3:

Average throughput: 24.04 Mbit/s

95th percentile per-packet one-way delay: 1.172 ms

Loss rate: 0.19%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-03-06 15:52:31

End at: 2018-03-06 15:53:01

Local clock offset: 0.702 ms

Remote clock offset: 2.338 ms

Below is generated by plot.py at 2018-03-06 22:56:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 49.49 Mbit/s

95th percentile per-packet one-way delay: 1.457 ms

Loss rate: 0.14%

-- Flow 1:

Average throughput: 24.92 Mbit/s

95th percentile per-packet one-way delay: 1.458 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 24.82 Mbit/s

95th percentile per-packet one-way delay: 1.454 ms

Loss rate: 0.00%

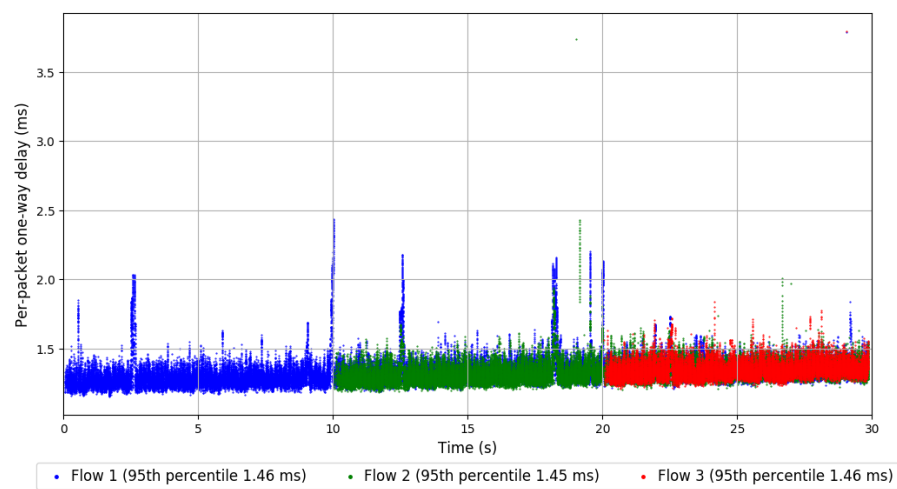
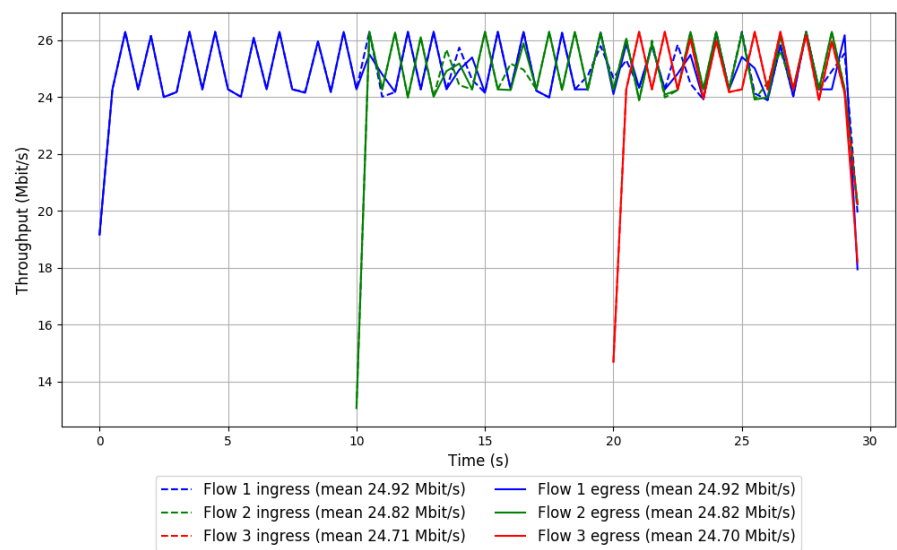
-- Flow 3:

Average throughput: 24.70 Mbit/s

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

Loss rate: 0.42%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-03-06 16:21:28

End at: 2018-03-06 16:21:58

Local clock offset: -1.827 ms

Remote clock offset: 1.687 ms

Below is generated by plot.py at 2018-03-06 22:56:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 49.28 Mbit/s

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

Loss rate: 0.08%

-- Flow 1:

Average throughput: 24.97 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 24.34 Mbit/s

95th percentile per-packet one-way delay: 1.246 ms

Loss rate: 0.02%

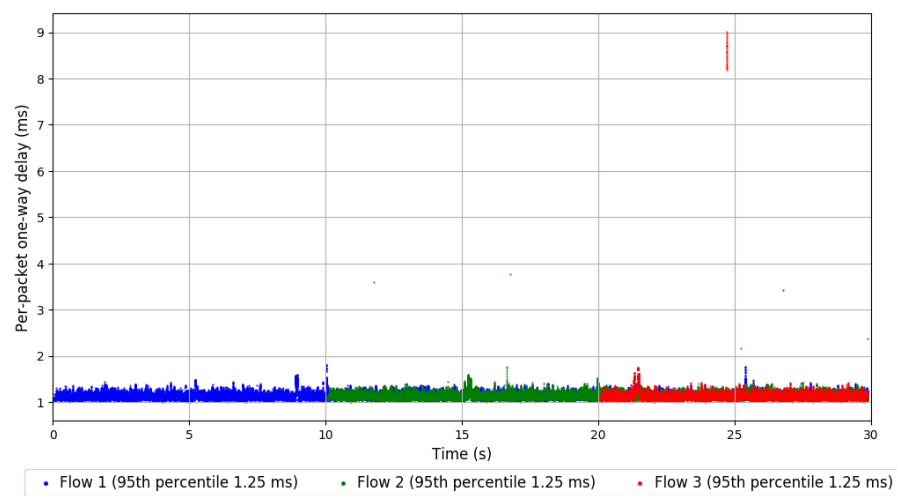
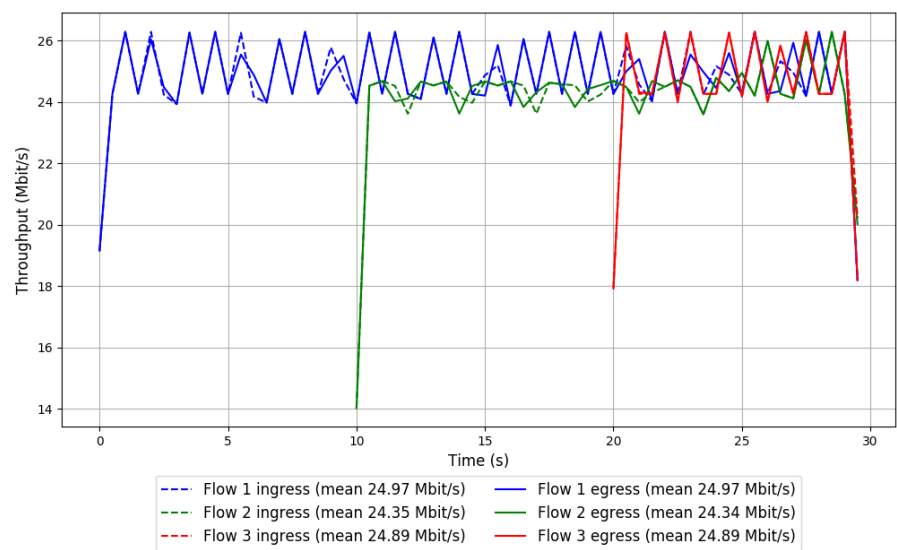
-- Flow 3:

Average throughput: 24.89 Mbit/s

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

Loss rate: 0.41%

Run 10: Report of Sprout — Data Link

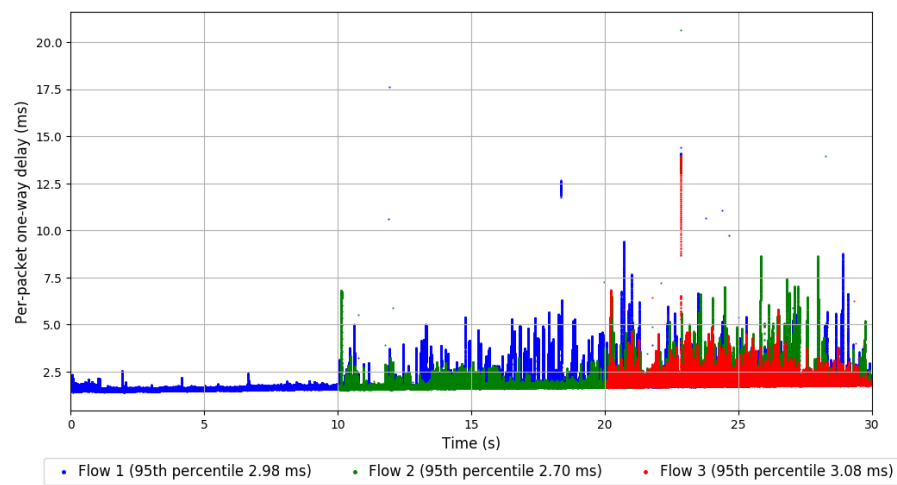
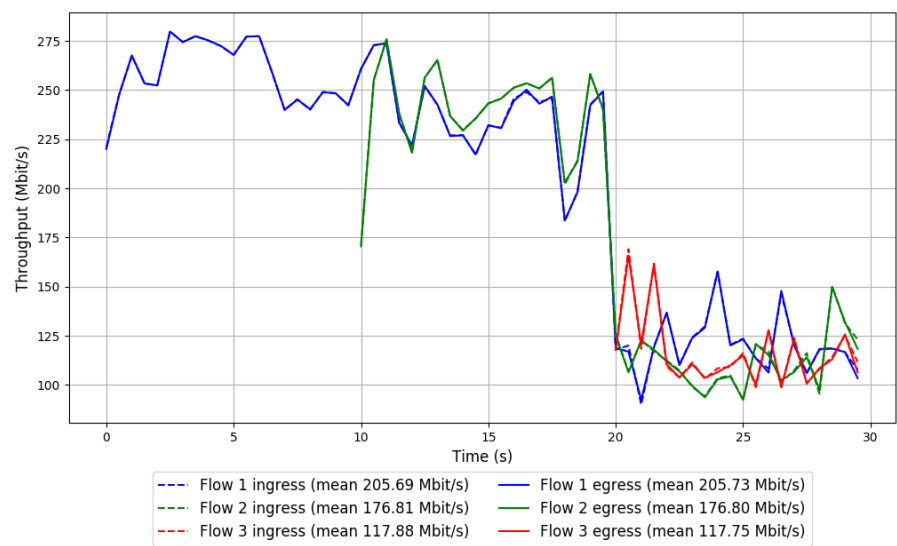


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-03-06 11:57:46
End at: 2018-03-06 11:58:16
Local clock offset: 1.824 ms
Remote clock offset: 4.862 ms

# Below is generated by plot.py at 2018-03-06 23:02:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 362.23 Mbit/s
95th percentile per-packet one-way delay: 2.905 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 205.73 Mbit/s
95th percentile per-packet one-way delay: 2.979 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 176.80 Mbit/s
95th percentile per-packet one-way delay: 2.698 ms
Loss rate: 0.12%
-- Flow 3:
Average throughput: 117.75 Mbit/s
95th percentile per-packet one-way delay: 3.076 ms
Loss rate: 0.36%
```


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



Run 2: Statistics of TaoVA-100x

Start at: 2018-03-06 12:27:27

End at: 2018-03-06 12:27:57

Local clock offset: -5.056 ms

Remote clock offset: 6.513 ms

Below is generated by plot.py at 2018-03-06 23:02:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 323.33 Mbit/s

95th percentile per-packet one-way delay: 2.071 ms

Loss rate: 0.48%

-- Flow 1:

Average throughput: 188.11 Mbit/s

95th percentile per-packet one-way delay: 1.999 ms

Loss rate: 0.27%

-- Flow 2:

Average throughput: 159.20 Mbit/s

95th percentile per-packet one-way delay: 2.091 ms

Loss rate: 0.63%

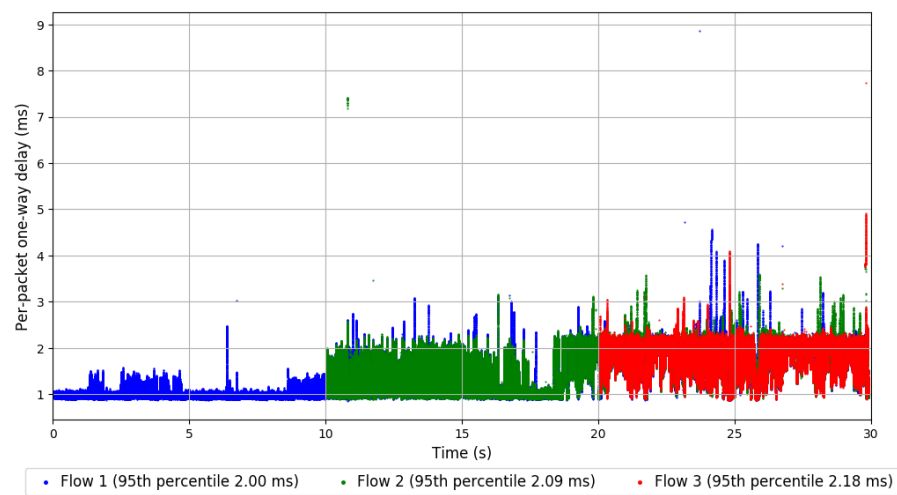
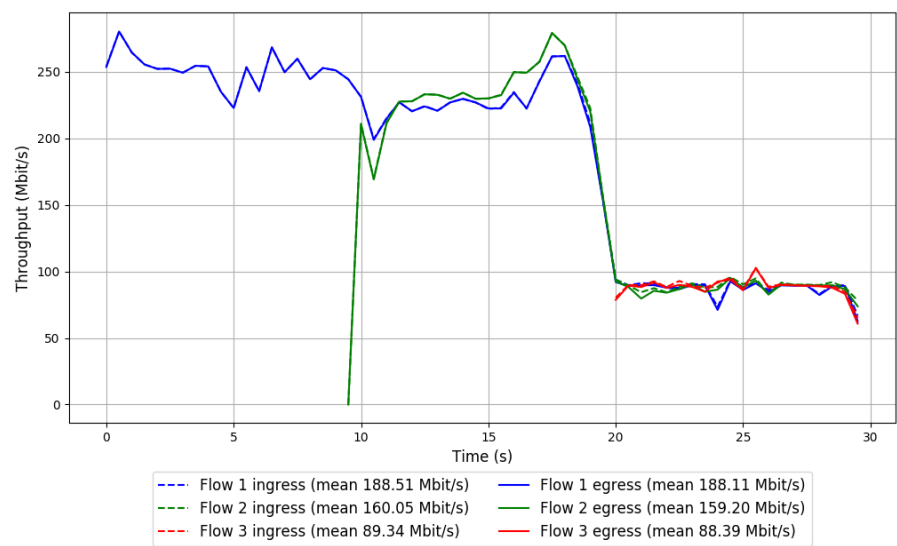
-- Flow 3:

Average throughput: 88.39 Mbit/s

95th percentile per-packet one-way delay: 2.183 ms

Loss rate: 1.30%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-03-06 12:57:10

End at: 2018-03-06 12:57:40

Local clock offset: -4.836 ms

Remote clock offset: 4.75 ms

Below is generated by plot.py at 2018-03-06 23:02:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 270.06 Mbit/s

95th percentile per-packet one-way delay: 2.165 ms

Loss rate: 0.55%

-- Flow 1:

Average throughput: 151.67 Mbit/s

95th percentile per-packet one-way delay: 2.108 ms

Loss rate: 0.36%

-- Flow 2:

Average throughput: 129.69 Mbit/s

95th percentile per-packet one-way delay: 2.217 ms

Loss rate: 0.65%

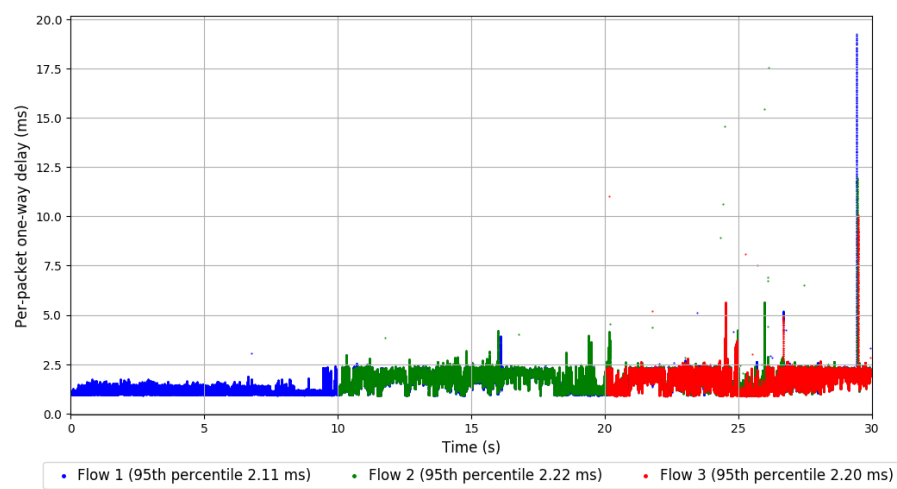
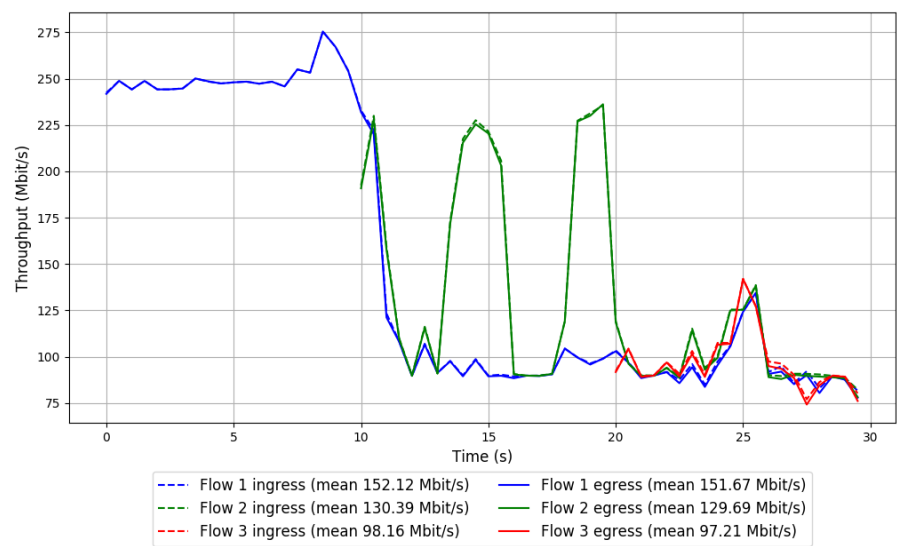
-- Flow 3:

Average throughput: 97.21 Mbit/s

95th percentile per-packet one-way delay: 2.203 ms

Loss rate: 1.18%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-03-06 13:26:26

End at: 2018-03-06 13:26:56

Local clock offset: -4.77 ms

Remote clock offset: 0.651 ms

Below is generated by plot.py at 2018-03-06 23:02:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 339.45 Mbit/s

95th percentile per-packet one-way delay: 1.196 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 193.21 Mbit/s

95th percentile per-packet one-way delay: 1.432 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 169.93 Mbit/s

95th percentile per-packet one-way delay: 1.054 ms

Loss rate: 0.04%

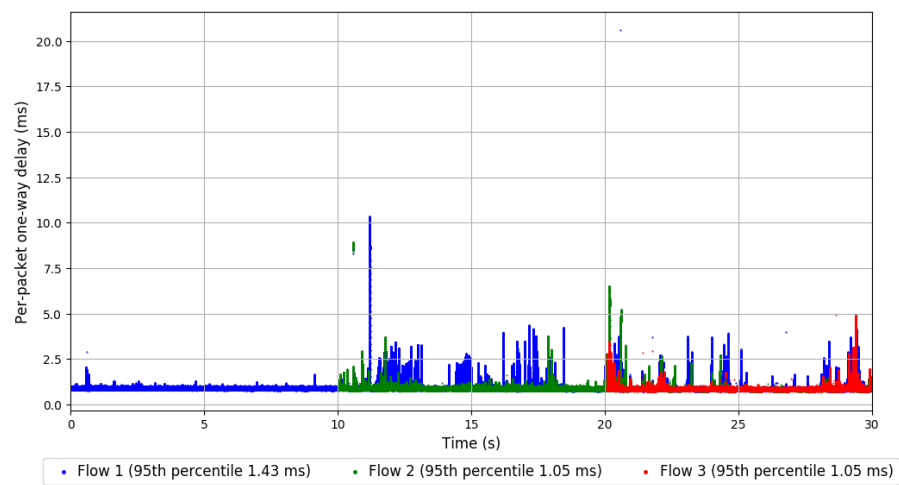
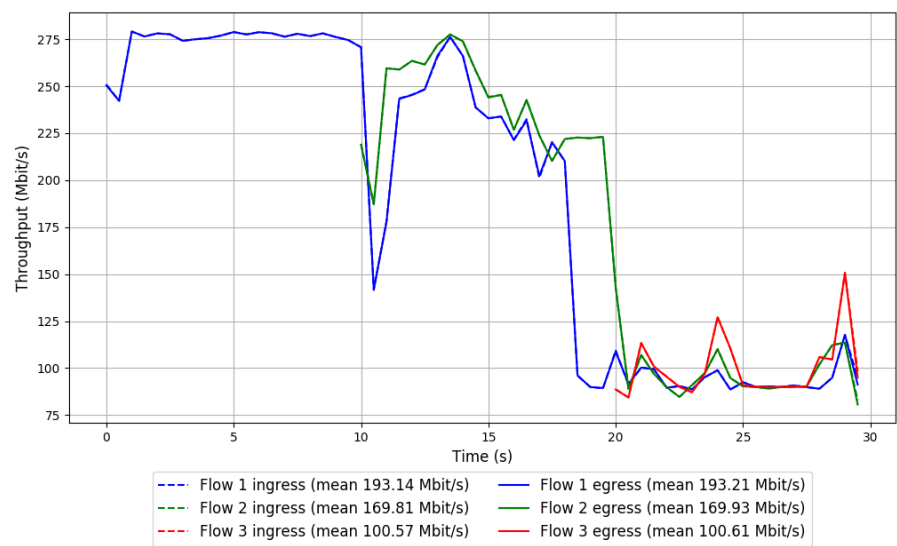
-- Flow 3:

Average throughput: 100.61 Mbit/s

95th percentile per-packet one-way delay: 1.054 ms

Loss rate: 0.19%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-03-06 13:56:00

End at: 2018-03-06 13:56:30

Local clock offset: 2.293 ms

Remote clock offset: 0.279 ms

Below is generated by plot.py at 2018-03-06 23:02:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 321.20 Mbit/s

95th percentile per-packet one-way delay: 1.282 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 176.50 Mbit/s

95th percentile per-packet one-way delay: 1.124 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 159.47 Mbit/s

95th percentile per-packet one-way delay: 1.413 ms

Loss rate: 0.07%

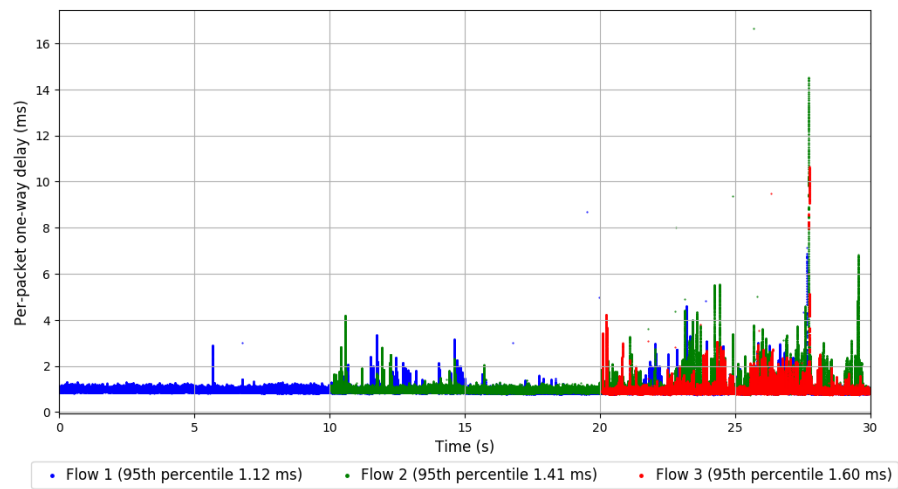
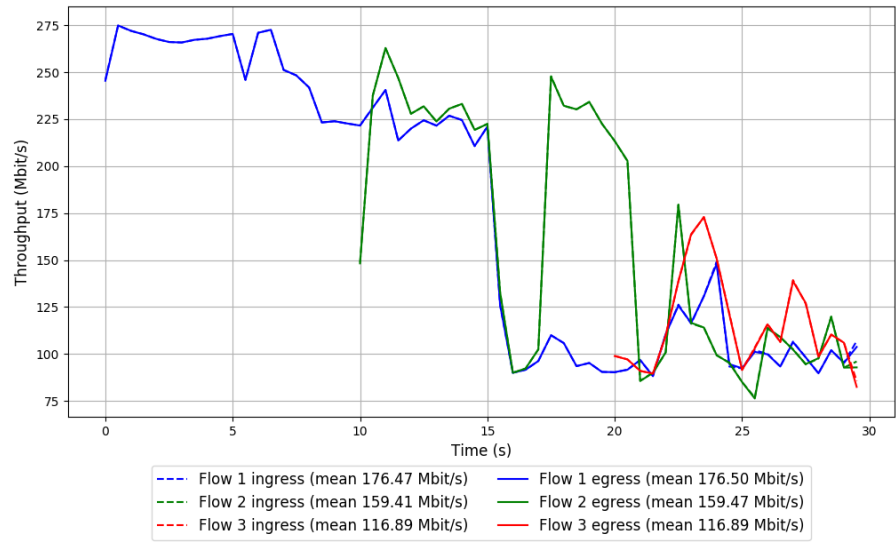
-- Flow 3:

Average throughput: 116.89 Mbit/s

95th percentile per-packet one-way delay: 1.601 ms

Loss rate: 0.19%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-03-06 14:25:27

End at: 2018-03-06 14:25:57

Local clock offset: 4.085 ms

Remote clock offset: 1.069 ms

Below is generated by plot.py at 2018-03-06 23:02:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 305.94 Mbit/s

95th percentile per-packet one-way delay: 1.347 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 168.72 Mbit/s

95th percentile per-packet one-way delay: 1.263 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 155.68 Mbit/s

95th percentile per-packet one-way delay: 1.536 ms

Loss rate: 0.07%

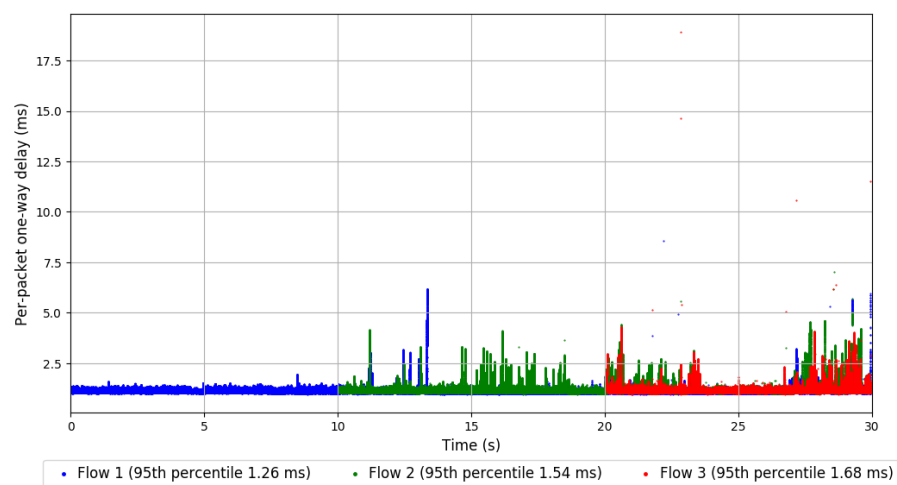
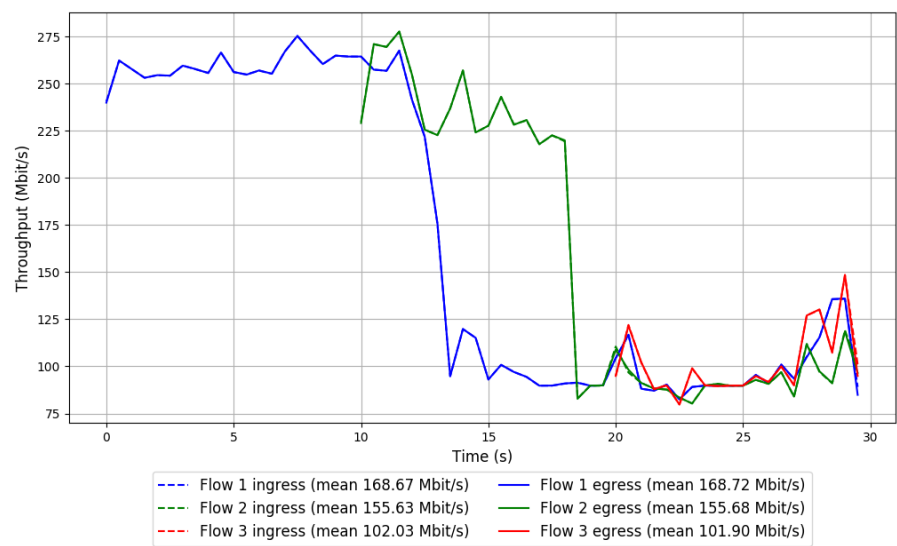
-- Flow 3:

Average throughput: 101.90 Mbit/s

95th percentile per-packet one-way delay: 1.680 ms

Loss rate: 0.31%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-03-06 14:54:57

End at: 2018-03-06 14:55:27

Local clock offset: 1.982 ms

Remote clock offset: 2.128 ms

Below is generated by plot.py at 2018-03-06 23:02:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 317.50 Mbit/s

95th percentile per-packet one-way delay: 1.519 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 185.67 Mbit/s

95th percentile per-packet one-way delay: 1.407 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 150.44 Mbit/s

95th percentile per-packet one-way delay: 1.753 ms

Loss rate: 0.07%

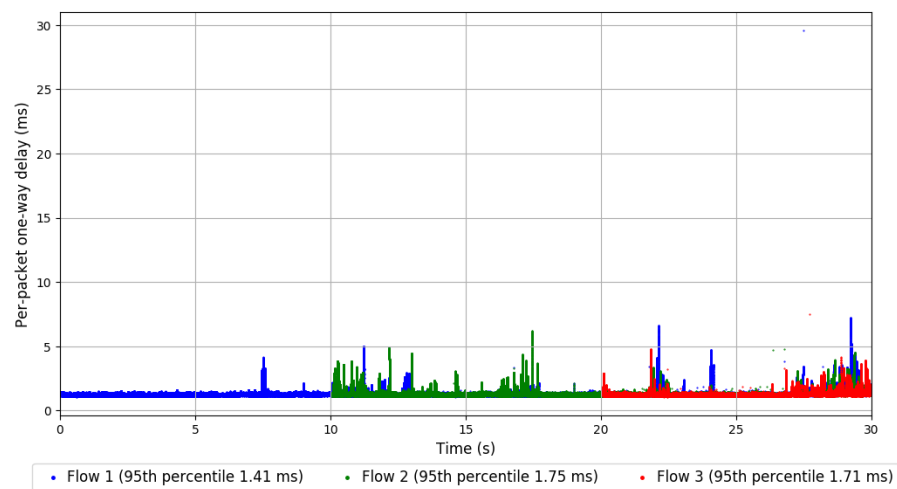
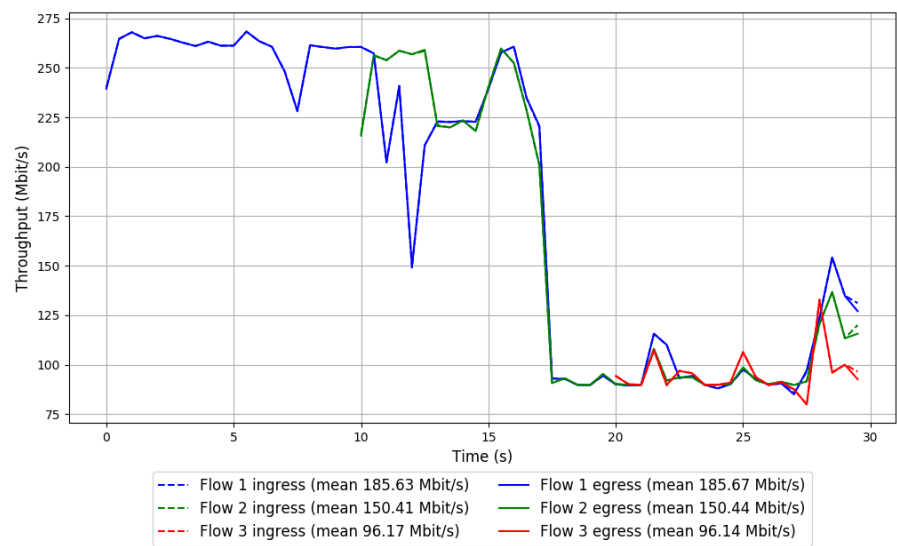
-- Flow 3:

Average throughput: 96.14 Mbit/s

95th percentile per-packet one-way delay: 1.711 ms

Loss rate: 0.22%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-03-06 15:29:16

End at: 2018-03-06 15:29:46

Local clock offset: 0.684 ms

Remote clock offset: 2.378 ms

Below is generated by plot.py at 2018-03-06 23:03:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 250.86 Mbit/s

95th percentile per-packet one-way delay: 2.204 ms

Loss rate: 0.25%

-- Flow 1:

Average throughput: 140.46 Mbit/s

95th percentile per-packet one-way delay: 2.190 ms

Loss rate: 0.17%

-- Flow 2:

Average throughput: 106.66 Mbit/s

95th percentile per-packet one-way delay: 2.266 ms

Loss rate: 0.34%

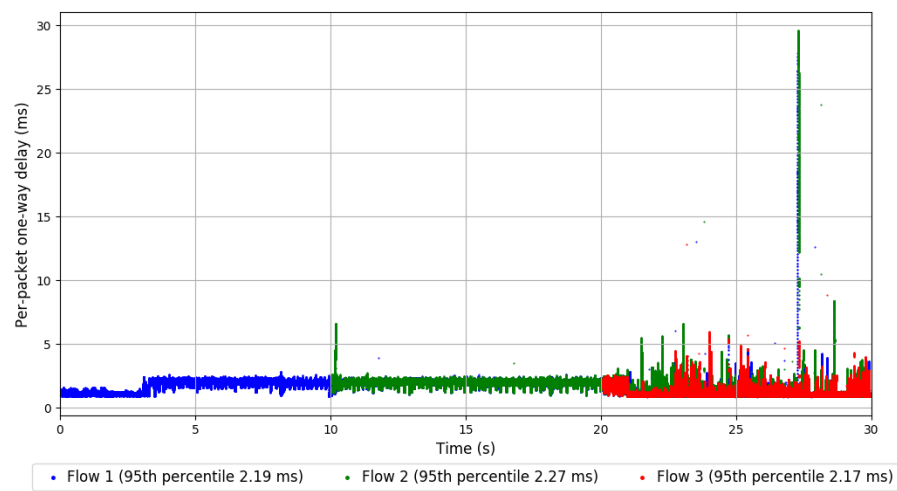
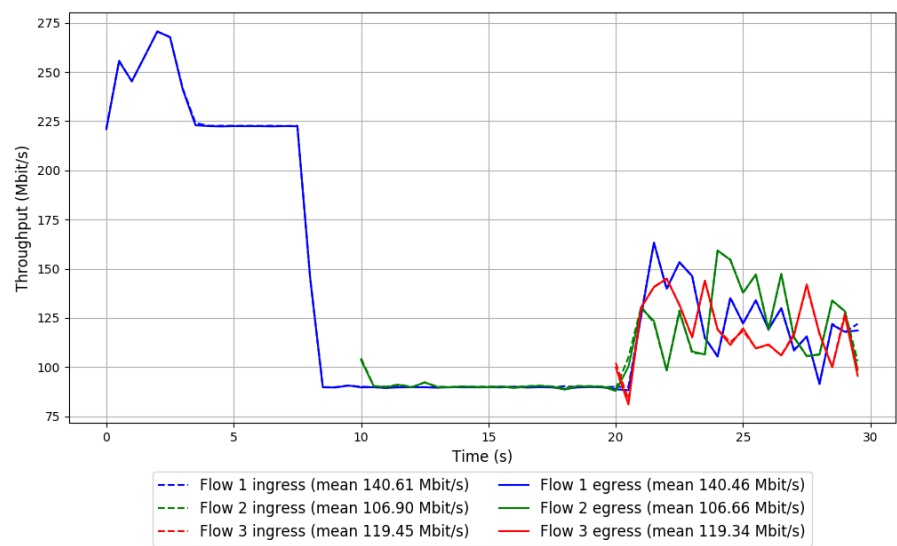
-- Flow 3:

Average throughput: 119.34 Mbit/s

95th percentile per-packet one-way delay: 2.171 ms

Loss rate: 0.34%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-03-06 15:58:29

End at: 2018-03-06 15:58:59

Local clock offset: -0.297 ms

Remote clock offset: 2.366 ms

Below is generated by plot.py at 2018-03-06 23:09:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 357.58 Mbit/s

95th percentile per-packet one-way delay: 1.843 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 205.20 Mbit/s

95th percentile per-packet one-way delay: 1.850 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 175.95 Mbit/s

95th percentile per-packet one-way delay: 1.813 ms

Loss rate: 0.07%

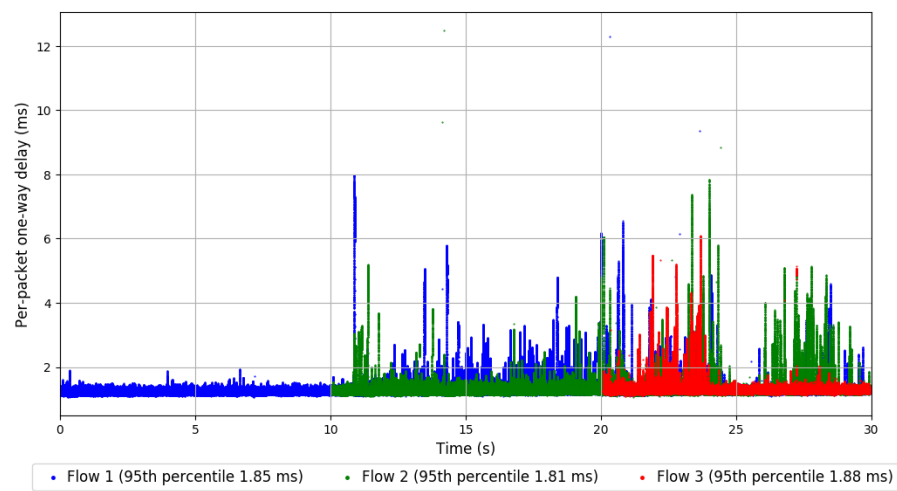
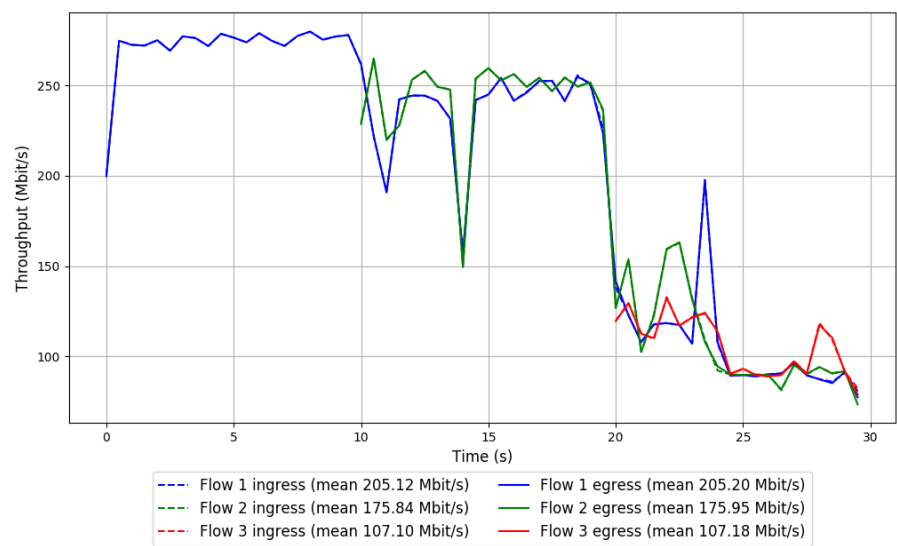
-- Flow 3:

Average throughput: 107.18 Mbit/s

95th percentile per-packet one-way delay: 1.875 ms

Loss rate: 0.17%

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



Run 10: Statistics of TaoVA-100x

Start at: 2018-03-06 16:27:24

End at: 2018-03-06 16:27:54

Local clock offset: -2.424 ms

Remote clock offset: 1.541 ms

Below is generated by plot.py at 2018-03-06 23:11:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 376.77 Mbit/s

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

Loss rate: 0.06%

-- Flow 1:

Average throughput: 211.88 Mbit/s

95th percentile per-packet one-way delay: 1.983 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 187.07 Mbit/s

95th percentile per-packet one-way delay: 2.862 ms

Loss rate: 0.06%

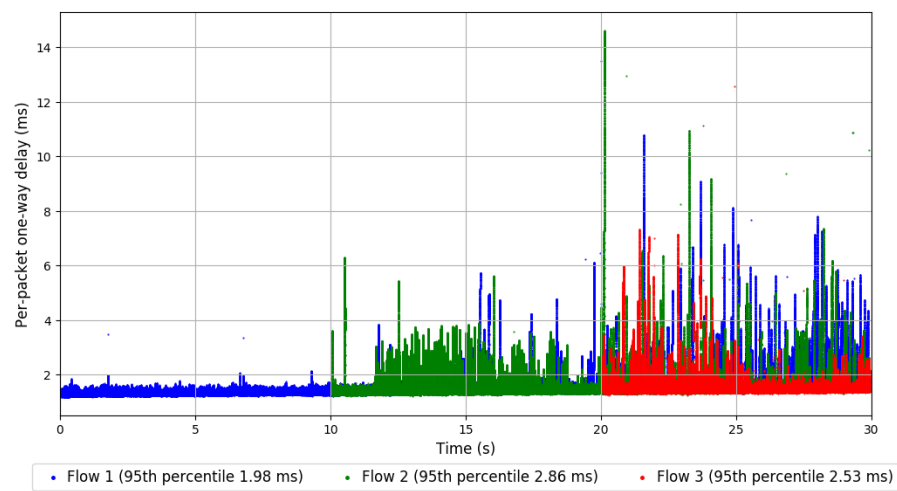
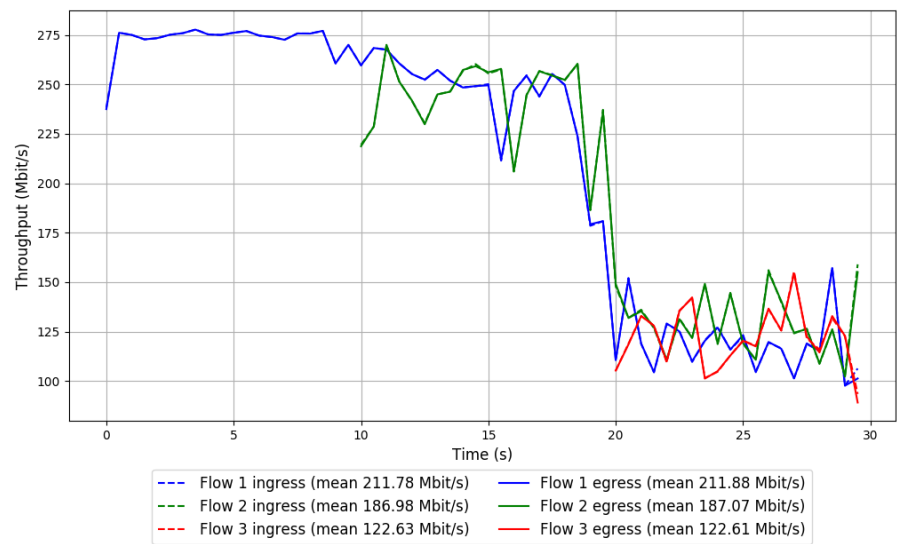
-- Flow 3:

Average throughput: 122.61 Mbit/s

95th percentile per-packet one-way delay: 2.526 ms

Loss rate: 0.19%

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



Run 1: Statistics of TCP Vegas

Start at: 2018-03-06 11:50:05

End at: 2018-03-06 11:50:35

Local clock offset: 5.353 ms

Remote clock offset: 4.453 ms

Below is generated by plot.py at 2018-03-06 23:11:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 696.16 Mbit/s

95th percentile per-packet one-way delay: 5.750 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 330.44 Mbit/s

95th percentile per-packet one-way delay: 2.085 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 402.85 Mbit/s

95th percentile per-packet one-way delay: 7.966 ms

Loss rate: 0.04%

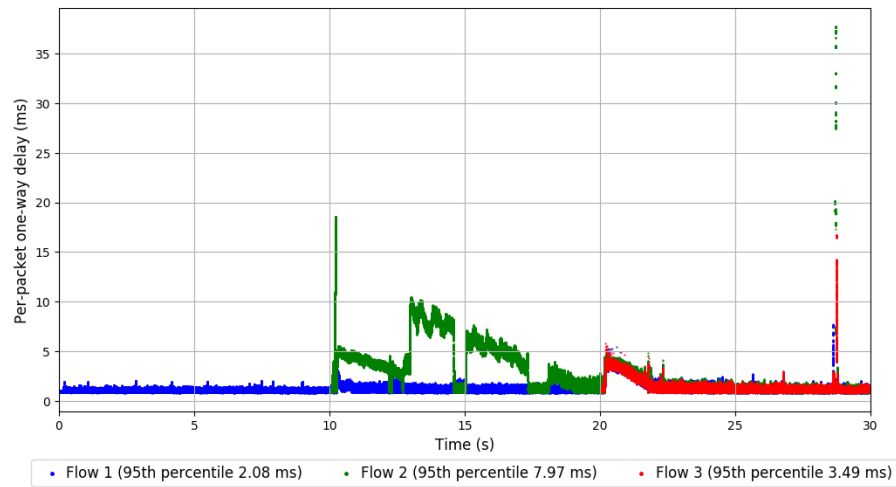
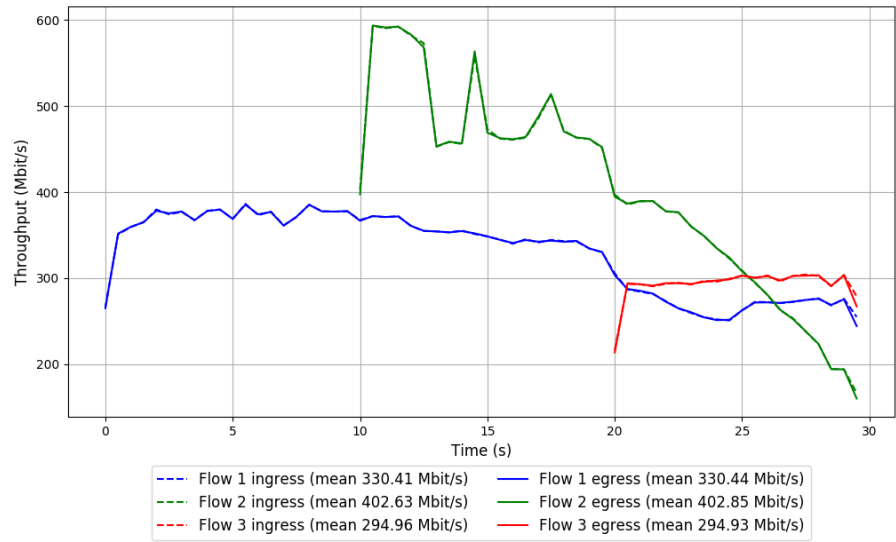
-- Flow 3:

Average throughput: 294.93 Mbit/s

95th percentile per-packet one-way delay: 3.489 ms

Loss rate: 0.21%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-03-06 12:19:56

End at: 2018-03-06 12:20:26

Local clock offset: -4.576 ms

Remote clock offset: 6.031 ms

Below is generated by plot.py at 2018-03-06 23:11:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 554.47 Mbit/s

95th percentile per-packet one-way delay: 1.776 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 412.79 Mbit/s

95th percentile per-packet one-way delay: 1.787 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 129.57 Mbit/s

95th percentile per-packet one-way delay: 1.640 ms

Loss rate: 0.05%

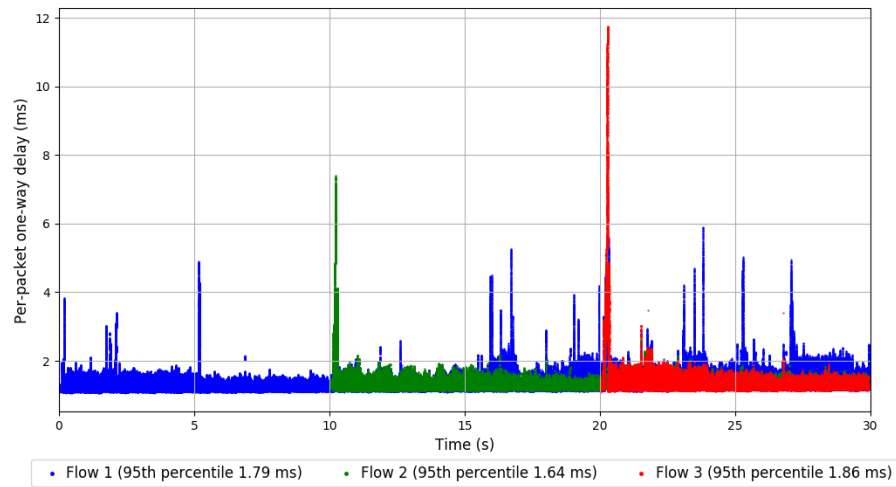
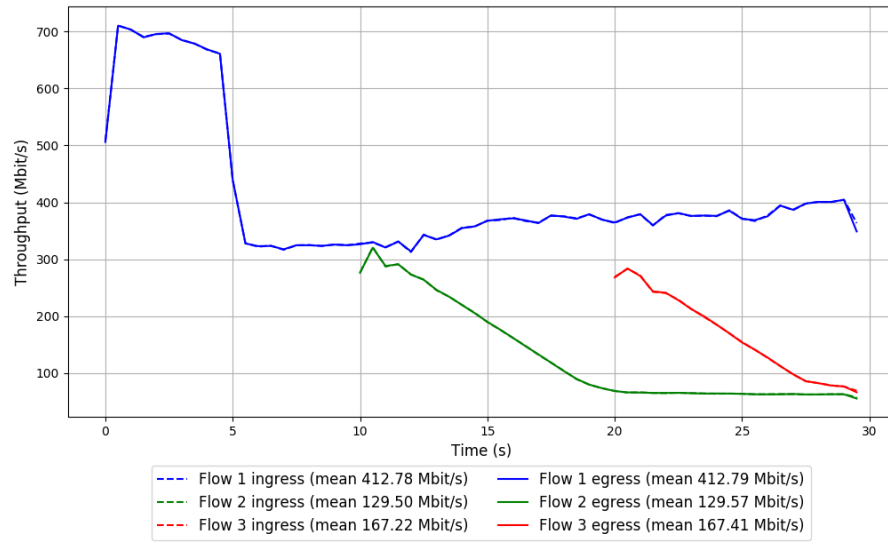
-- Flow 3:

Average throughput: 167.41 Mbit/s

95th percentile per-packet one-way delay: 1.863 ms

Loss rate: 0.09%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-03-06 12:49:32

End at: 2018-03-06 12:50:02

Local clock offset: -4.784 ms

Remote clock offset: 5.062 ms

Below is generated by plot.py at 2018-03-06 23:11:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 673.99 Mbit/s

95th percentile per-packet one-way delay: 3.187 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 263.66 Mbit/s

95th percentile per-packet one-way delay: 2.457 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 477.69 Mbit/s

95th percentile per-packet one-way delay: 3.185 ms

Loss rate: 0.08%

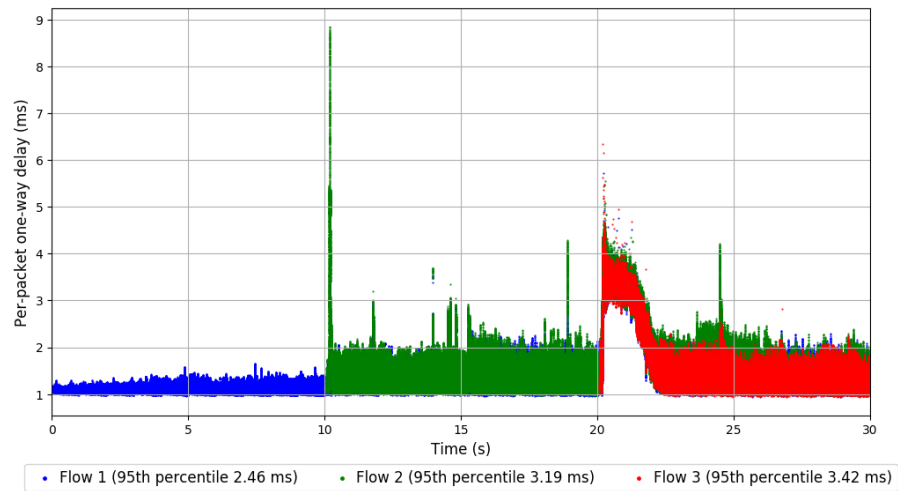
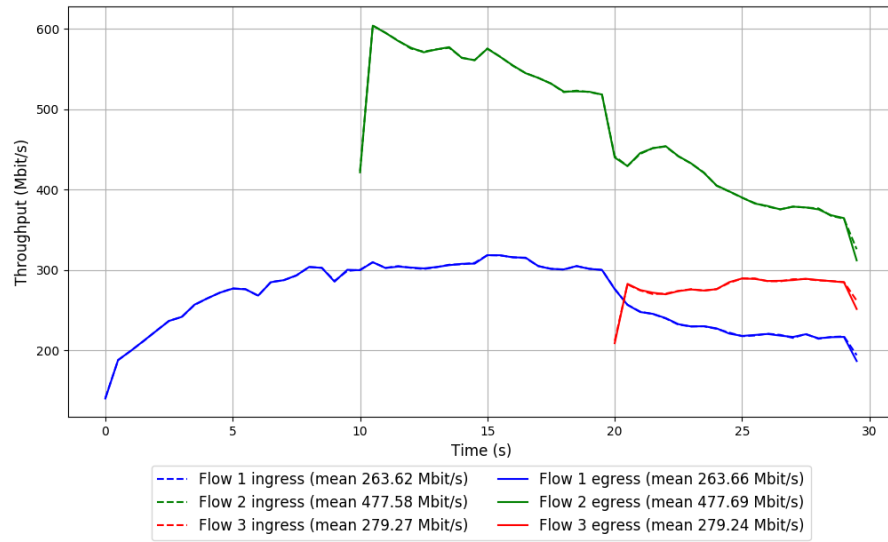
-- Flow 3:

Average throughput: 279.24 Mbit/s

95th percentile per-packet one-way delay: 3.425 ms

Loss rate: 0.21%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-03-06 13:18:55

End at: 2018-03-06 13:19:25

Local clock offset: -4.675 ms

Remote clock offset: 2.009 ms

Below is generated by plot.py at 2018-03-06 23:11:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 438.73 Mbit/s

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

Loss rate: 0.05%

-- Flow 1:

Average throughput: 278.84 Mbit/s

95th percentile per-packet one-way delay: 1.514 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 134.81 Mbit/s

95th percentile per-packet one-way delay: 1.377 ms

Loss rate: 0.05%

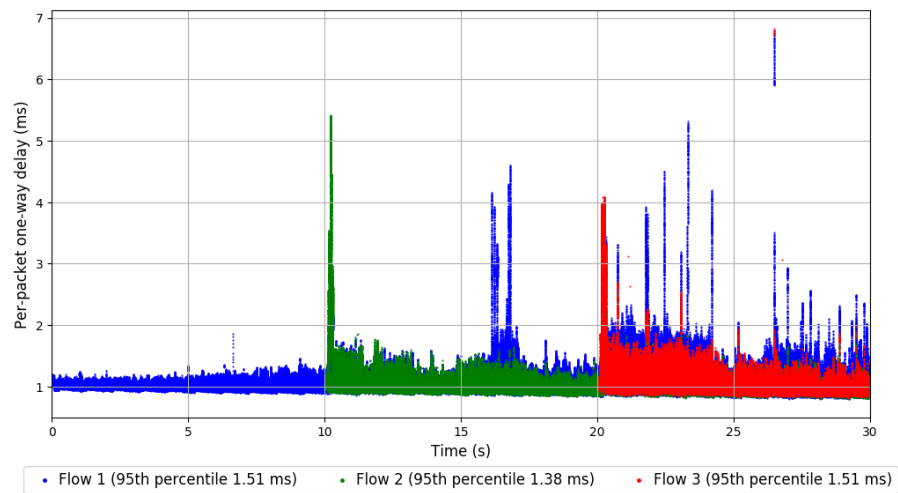
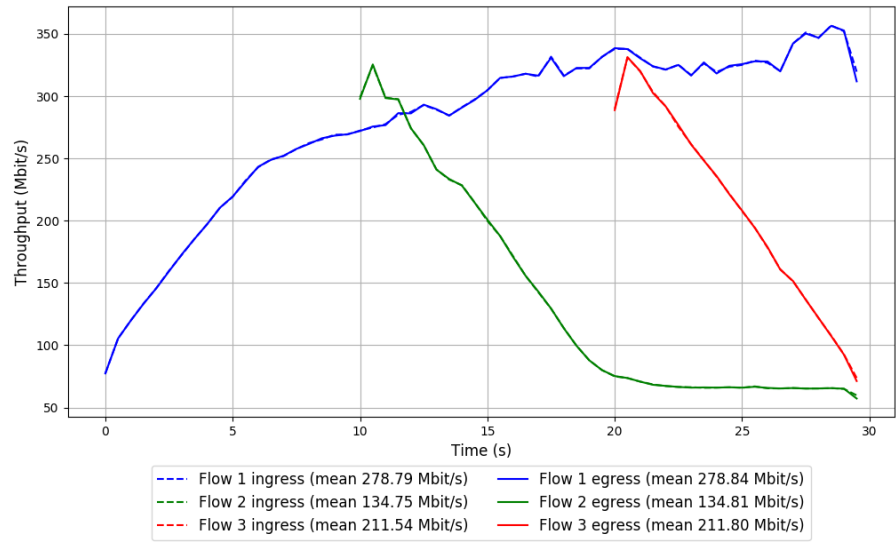
-- Flow 3:

Average throughput: 211.80 Mbit/s

95th percentile per-packet one-way delay: 1.511 ms

Loss rate: 0.07%

Run 4: Report of TCP Vegas — Data Link

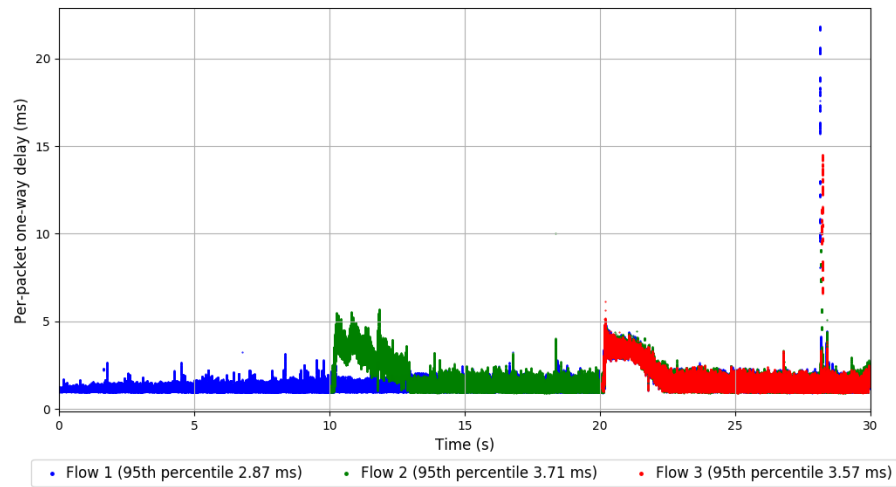
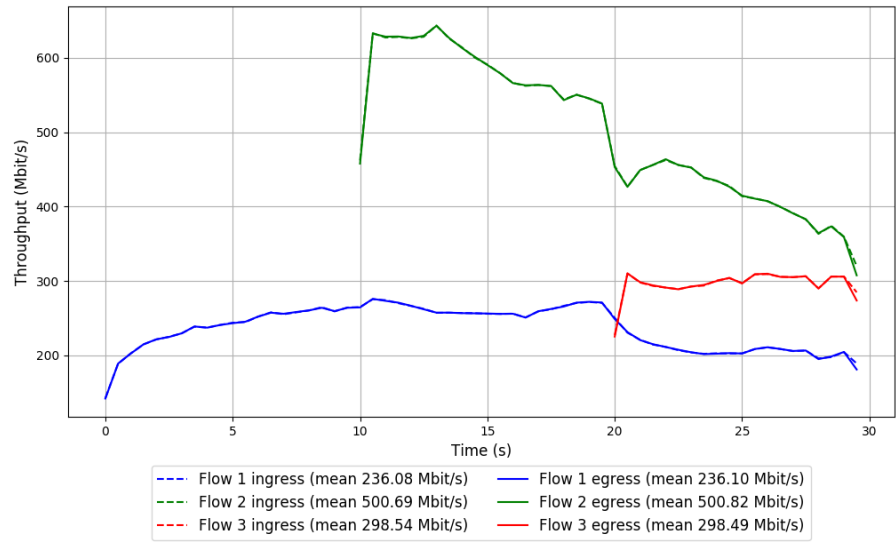


Run 5: Statistics of TCP Vegas

Start at: 2018-03-06 13:48:17
End at: 2018-03-06 13:48:47
Local clock offset: 0.724 ms
Remote clock offset: -0.727 ms

Below is generated by plot.py at 2018-03-06 23:11:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 668.17 Mbit/s
95th percentile per-packet one-way delay: 3.550 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 236.10 Mbit/s
95th percentile per-packet one-way delay: 2.867 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 500.82 Mbit/s
95th percentile per-packet one-way delay: 3.707 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 298.49 Mbit/s
95th percentile per-packet one-way delay: 3.573 ms
Loss rate: 0.21%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-03-06 14:17:45

End at: 2018-03-06 14:18:15

Local clock offset: 3.893 ms

Remote clock offset: 0.452 ms

Below is generated by plot.py at 2018-03-06 23:11:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 548.65 Mbit/s

95th percentile per-packet one-way delay: 1.764 ms

Loss rate: 0.11%

-- Flow 1:

Average throughput: 301.87 Mbit/s

95th percentile per-packet one-way delay: 1.703 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 251.91 Mbit/s

95th percentile per-packet one-way delay: 1.808 ms

Loss rate: 0.11%

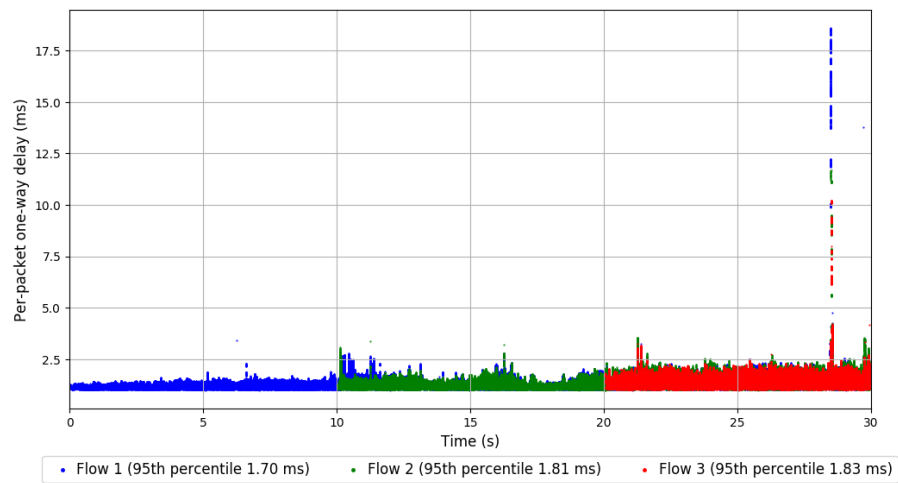
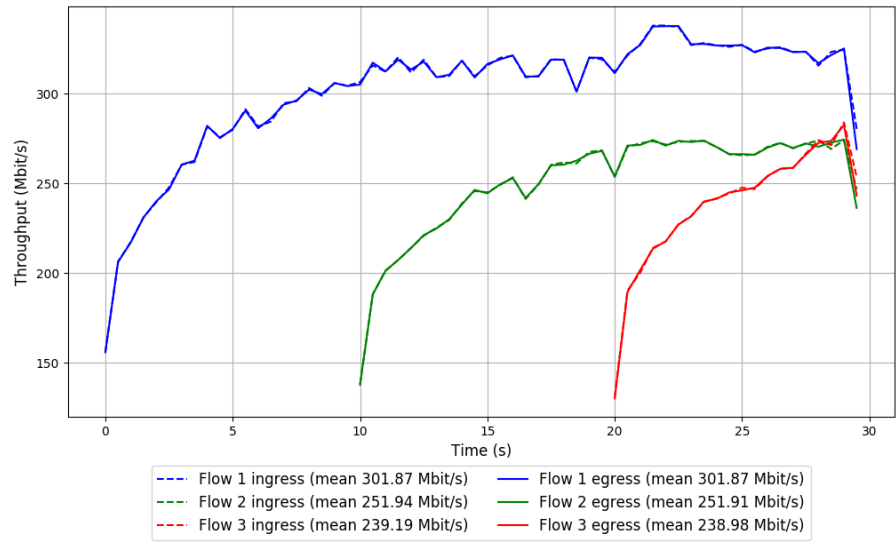
-- Flow 3:

Average throughput: 238.98 Mbit/s

95th percentile per-packet one-way delay: 1.831 ms

Loss rate: 0.25%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-03-06 14:47:20

End at: 2018-03-06 14:47:50

Local clock offset: 4.053 ms

Remote clock offset: 2.041 ms

Below is generated by plot.py at 2018-03-06 23:15:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 552.43 Mbit/s

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

Loss rate: 0.10%

-- Flow 1:

Average throughput: 276.73 Mbit/s

95th percentile per-packet one-way delay: 2.212 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 244.19 Mbit/s

95th percentile per-packet one-way delay: 2.265 ms

Loss rate: 0.10%

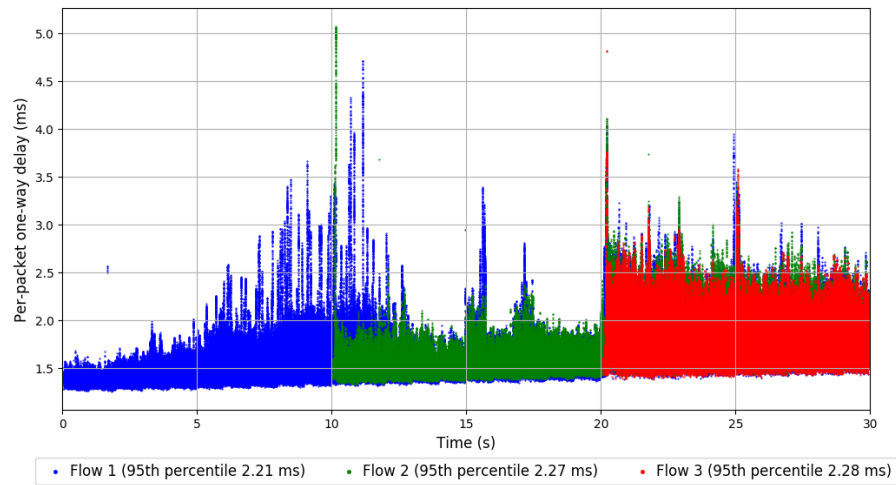
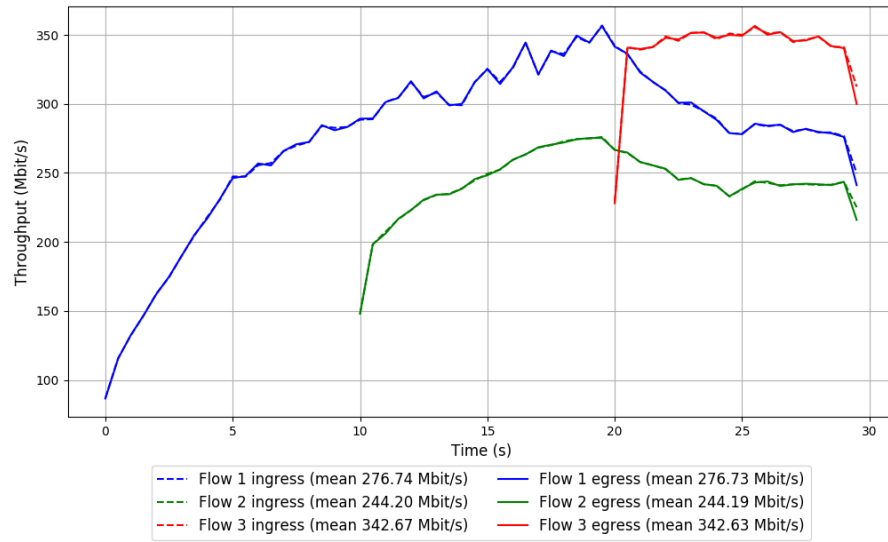
-- Flow 3:

Average throughput: 342.63 Mbit/s

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

Loss rate: 0.21%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-03-06 15:21:39

End at: 2018-03-06 15:22:09

Local clock offset: 0.752 ms

Remote clock offset: 2.258 ms

Below is generated by plot.py at 2018-03-06 23:18:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 667.67 Mbit/s

95th percentile per-packet one-way delay: 1.773 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 381.30 Mbit/s

95th percentile per-packet one-way delay: 1.731 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 320.68 Mbit/s

95th percentile per-packet one-way delay: 1.832 ms

Loss rate: 0.09%

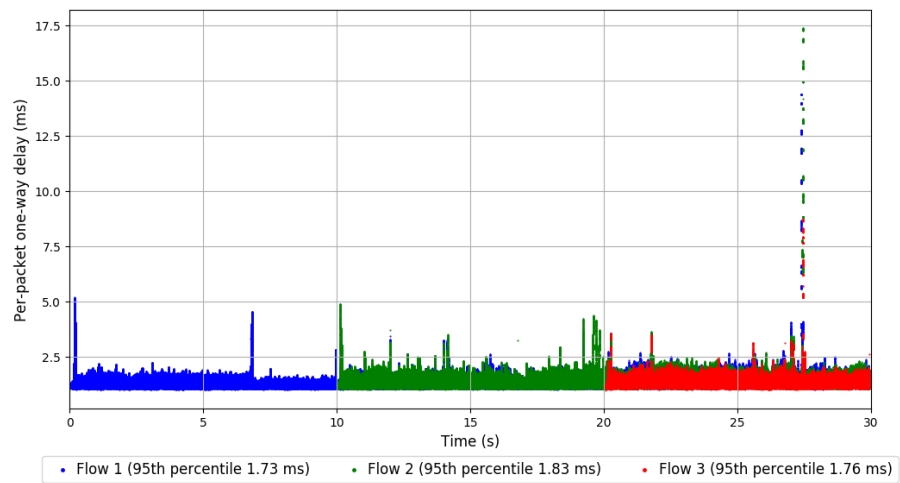
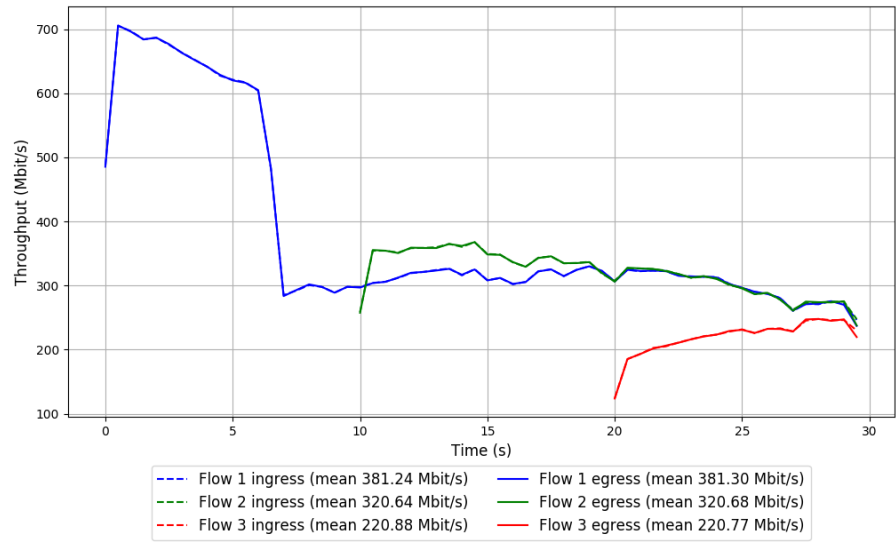
-- Flow 3:

Average throughput: 220.77 Mbit/s

95th percentile per-packet one-way delay: 1.757 ms

Loss rate: 0.23%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-03-06 15:50:52

End at: 2018-03-06 15:51:22

Local clock offset: 0.69 ms

Remote clock offset: 2.426 ms

Below is generated by plot.py at 2018-03-06 23:18:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 435.95 Mbit/s

95th percentile per-packet one-way delay: 1.485 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 249.61 Mbit/s

95th percentile per-packet one-way delay: 1.457 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 166.97 Mbit/s

95th percentile per-packet one-way delay: 1.503 ms

Loss rate: 0.04%

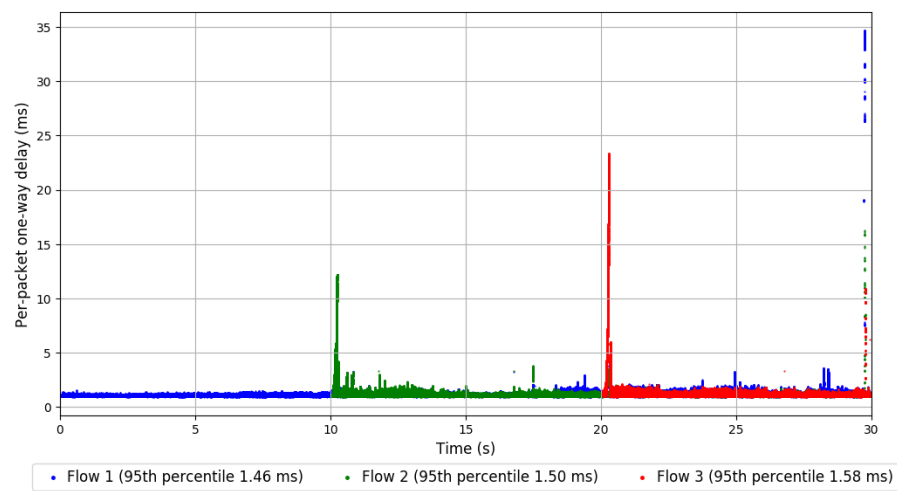
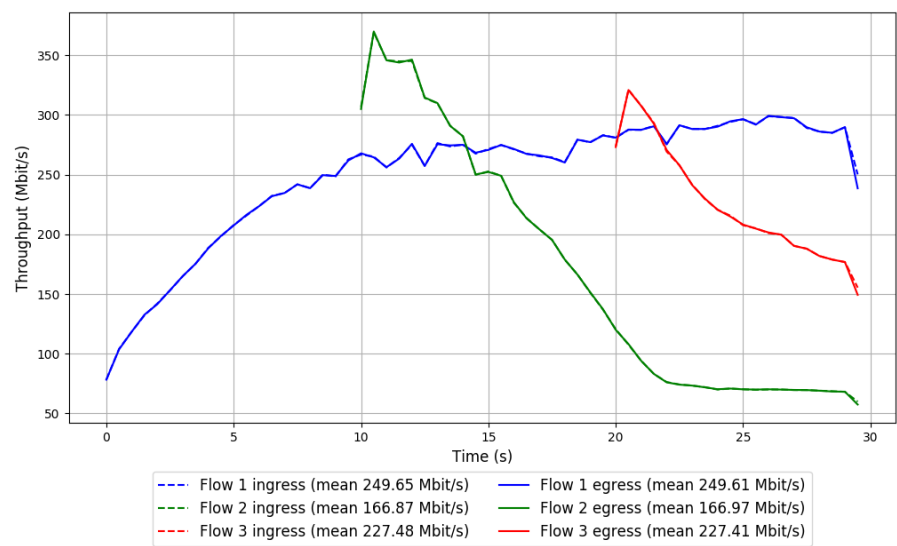
-- Flow 3:

Average throughput: 227.41 Mbit/s

95th percentile per-packet one-way delay: 1.576 ms

Loss rate: 0.14%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-03-06 16:19:50

End at: 2018-03-06 16:20:20

Local clock offset: -1.756 ms

Remote clock offset: 1.725 ms

Below is generated by plot.py at 2018-03-06 23:18:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 503.29 Mbit/s

95th percentile per-packet one-way delay: 1.635 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 292.72 Mbit/s

95th percentile per-packet one-way delay: 1.650 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 226.43 Mbit/s

95th percentile per-packet one-way delay: 1.606 ms

Loss rate: 0.13%

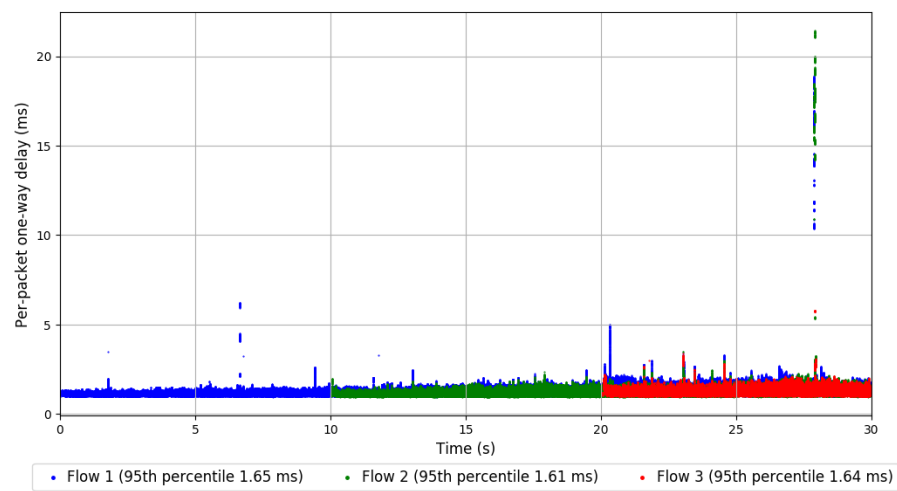
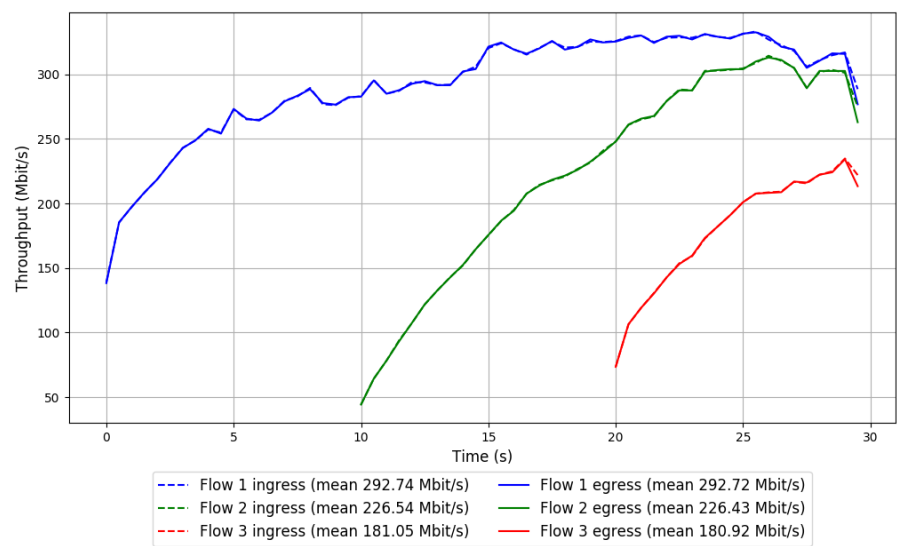
-- Flow 3:

Average throughput: 180.92 Mbit/s

95th percentile per-packet one-way delay: 1.638 ms

Loss rate: 0.28%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-03-06 12:07:31

End at: 2018-03-06 12:08:01

Local clock offset: -2.702 ms

Remote clock offset: 5.474 ms

Below is generated by plot.py at 2018-03-06 23:18:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 339.12 Mbit/s

95th percentile per-packet one-way delay: 9.568 ms

Loss rate: 0.22%

-- Flow 1:

Average throughput: 191.01 Mbit/s

95th percentile per-packet one-way delay: 10.319 ms

Loss rate: 0.11%

-- Flow 2:

Average throughput: 162.86 Mbit/s

95th percentile per-packet one-way delay: 8.772 ms

Loss rate: 0.15%

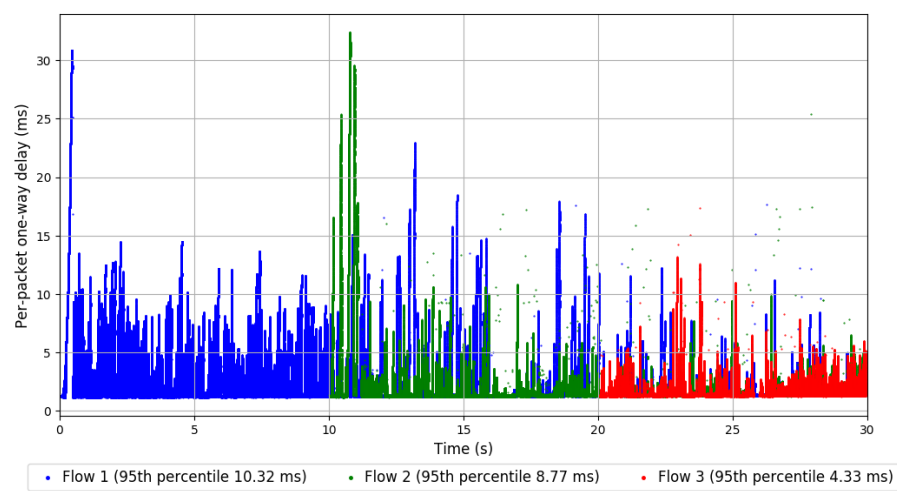
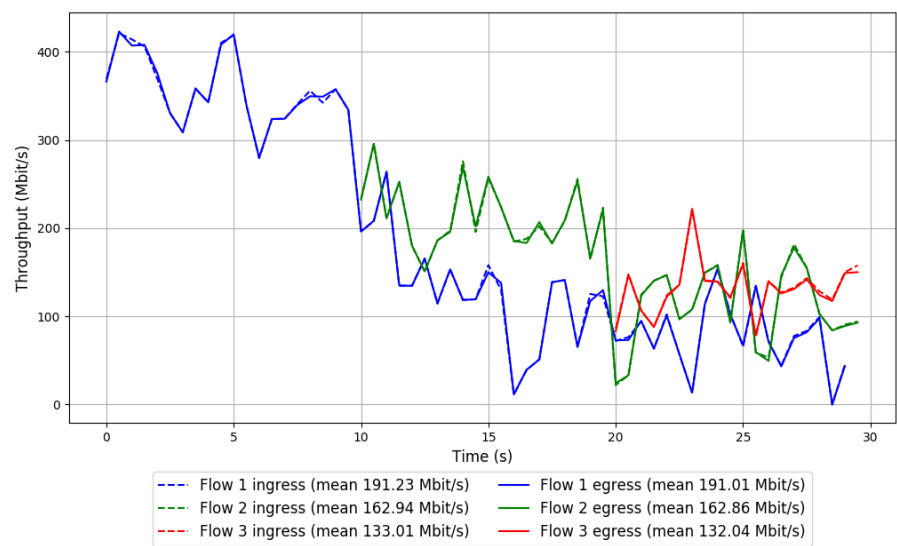
-- Flow 3:

Average throughput: 132.04 Mbit/s

95th percentile per-packet one-way delay: 4.329 ms

Loss rate: 0.88%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-03-06 12:37:01

End at: 2018-03-06 12:37:31

Local clock offset: -4.798 ms

Remote clock offset: 6.957 ms

Below is generated by plot.py at 2018-03-06 23:18:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 445.13 Mbit/s

95th percentile per-packet one-way delay: 9.086 ms

Loss rate: 0.21%

-- Flow 1:

Average throughput: 242.57 Mbit/s

95th percentile per-packet one-way delay: 11.379 ms

Loss rate: 0.12%

-- Flow 2:

Average throughput: 224.41 Mbit/s

95th percentile per-packet one-way delay: 6.507 ms

Loss rate: 0.26%

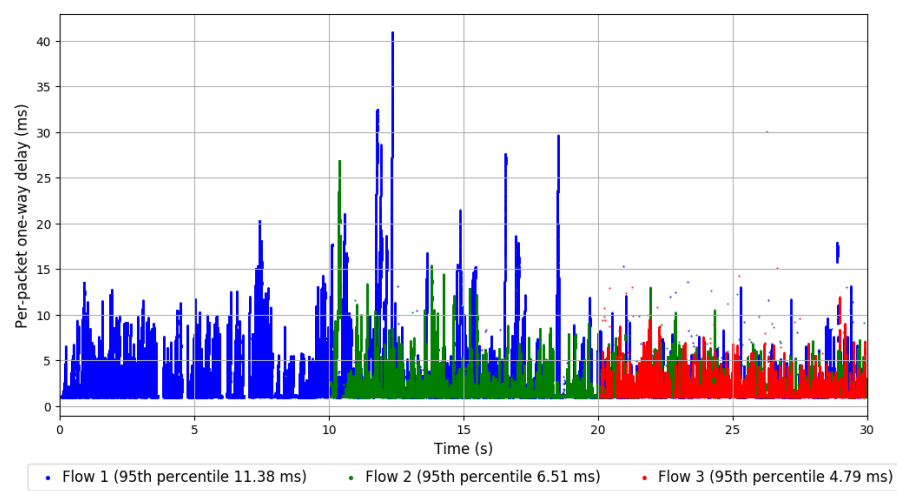
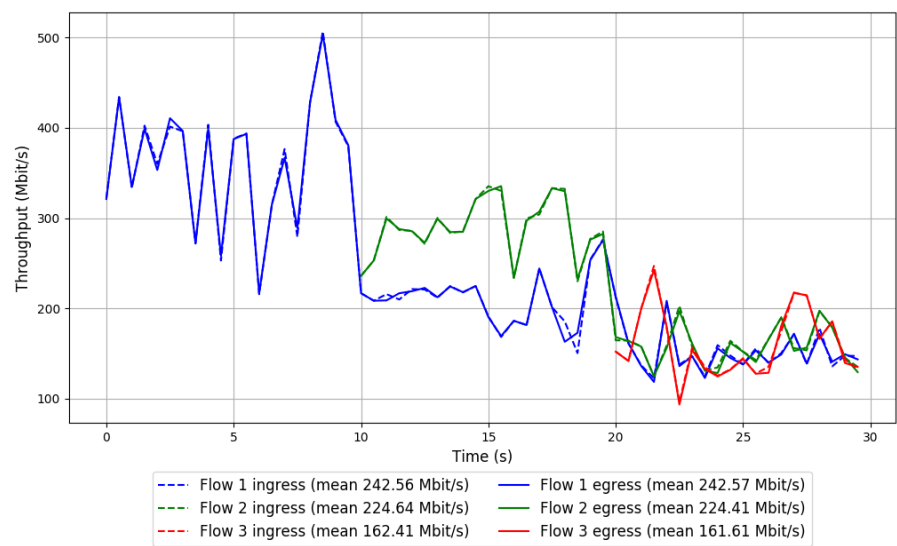
-- Flow 3:

Average throughput: 161.61 Mbit/s

95th percentile per-packet one-way delay: 4.794 ms

Loss rate: 0.43%

Run 2: Report of Verus — Data Link

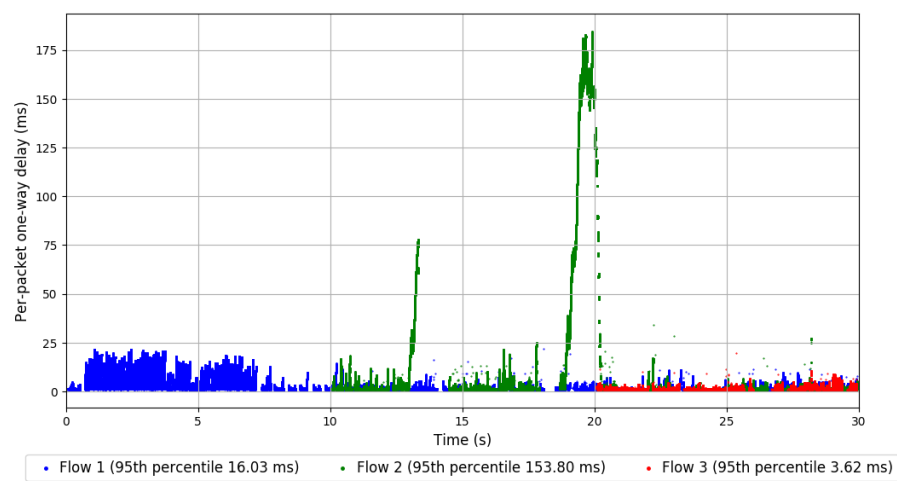
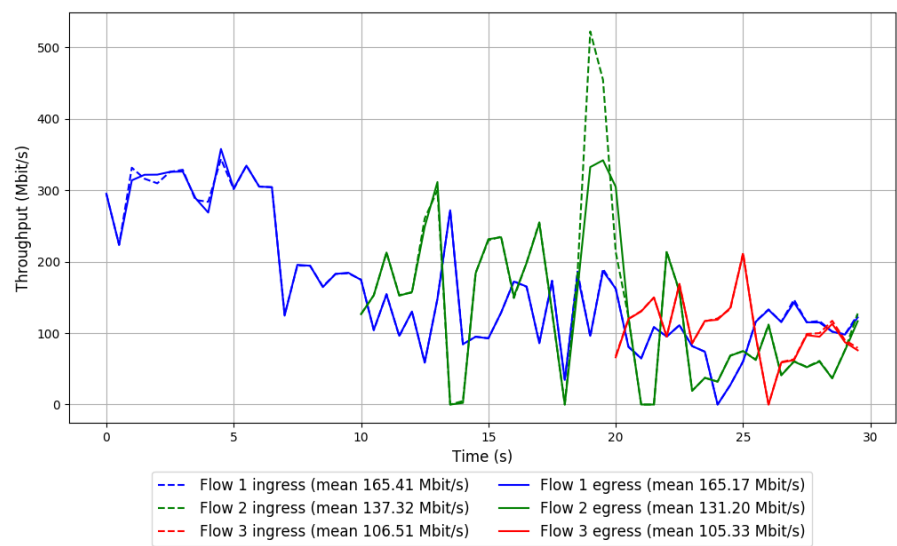


Run 3: Statistics of Verus

Start at: 2018-03-06 13:06:43
End at: 2018-03-06 13:07:13
Local clock offset: -4.756 ms
Remote clock offset: 4.502 ms

Below is generated by plot.py at 2018-03-06 23:18:49
Datalink statistics
-- Total of 3 flows:
Average throughput: 287.25 Mbit/s
95th percentile per-packet one-way delay: 55.028 ms
Loss rate: 1.67%
-- Flow 1:
Average throughput: 165.17 Mbit/s
95th percentile per-packet one-way delay: 16.028 ms
Loss rate: 0.20%
-- Flow 2:
Average throughput: 131.20 Mbit/s
95th percentile per-packet one-way delay: 153.801 ms
Loss rate: 4.55%
-- Flow 3:
Average throughput: 105.33 Mbit/s
95th percentile per-packet one-way delay: 3.623 ms
Loss rate: 1.11%

Run 3: Report of Verus — Data Link

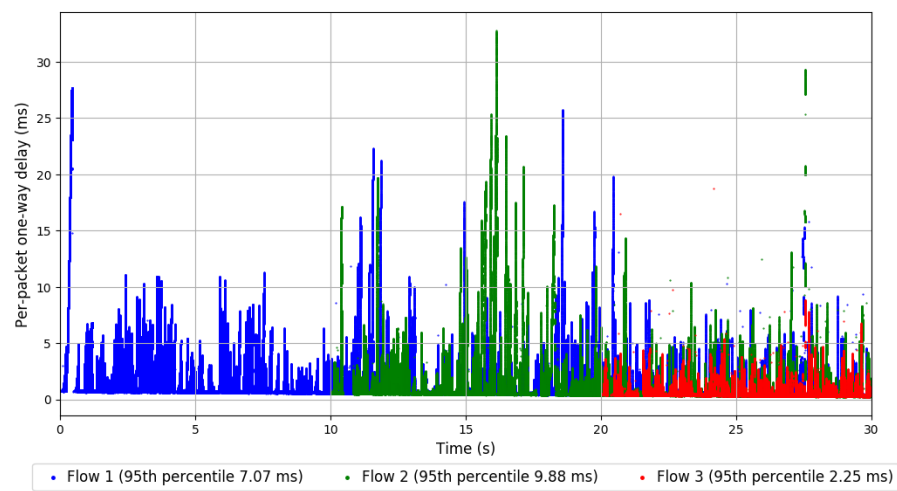
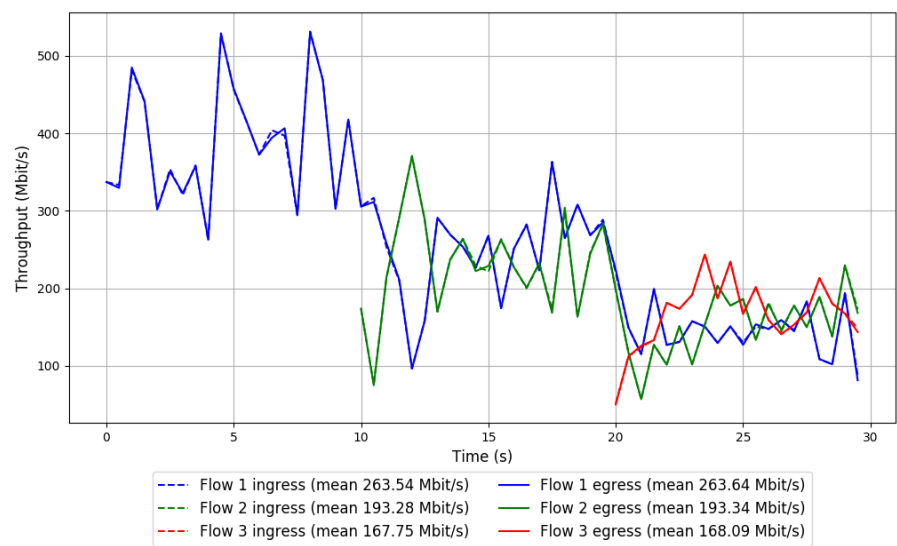


Run 4: Statistics of Verus

Start at: 2018-03-06 13:35:45
End at: 2018-03-06 13:36:15
Local clock offset: -4.828 ms
Remote clock offset: -0.342 ms

Below is generated by plot.py at 2018-03-06 23:18:49
Datalink statistics
-- Total of 3 flows:
Average throughput: 447.96 Mbit/s
95th percentile per-packet one-way delay: 7.138 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 263.64 Mbit/s
95th percentile per-packet one-way delay: 7.068 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 193.34 Mbit/s
95th percentile per-packet one-way delay: 9.875 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 168.09 Mbit/s
95th percentile per-packet one-way delay: 2.250 ms
Loss rate: 0.15%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-03-06 14:05:31

End at: 2018-03-06 14:06:01

Local clock offset: 3.715 ms

Remote clock offset: 0.542 ms

Below is generated by plot.py at 2018-03-06 23:21:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 395.94 Mbit/s

95th percentile per-packet one-way delay: 28.244 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 247.88 Mbit/s

95th percentile per-packet one-way delay: 26.782 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 176.19 Mbit/s

95th percentile per-packet one-way delay: 86.788 ms

Loss rate: 0.32%

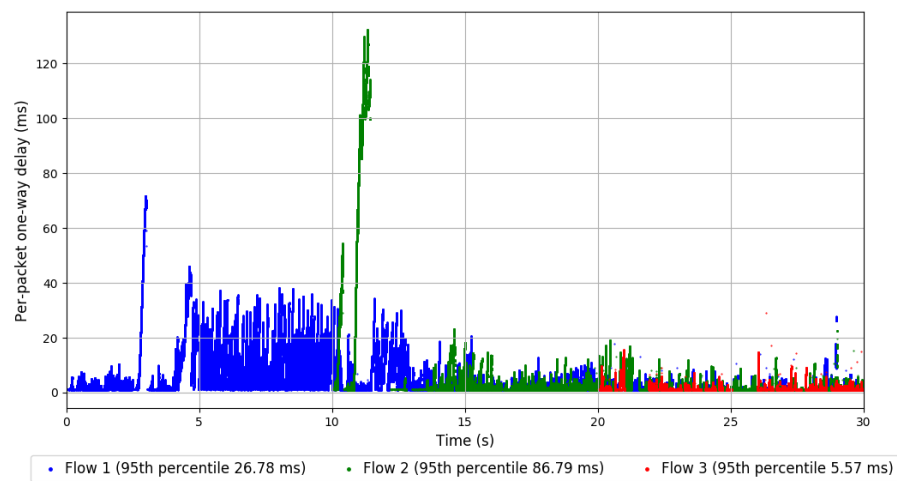
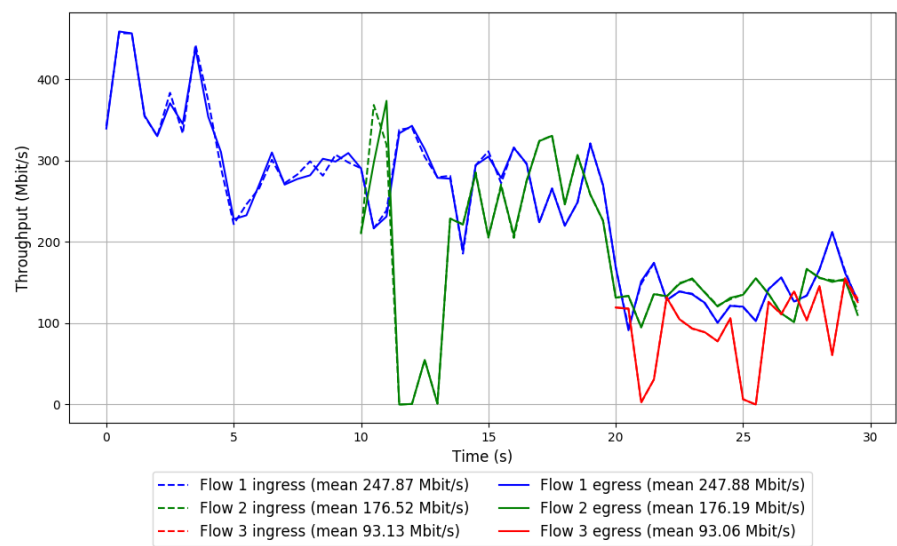
-- Flow 3:

Average throughput: 93.06 Mbit/s

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

Loss rate: 0.30%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-03-06 14:34:53

End at: 2018-03-06 14:35:23

Local clock offset: 4.618 ms

Remote clock offset: 1.67 ms

Below is generated by plot.py at 2018-03-06 23:21:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 391.99 Mbit/s

95th percentile per-packet one-way delay: 10.141 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 224.62 Mbit/s

95th percentile per-packet one-way delay: 12.733 ms

Loss rate: 0.09%

-- Flow 2:

Average throughput: 184.05 Mbit/s

95th percentile per-packet one-way delay: 6.756 ms

Loss rate: 0.00%

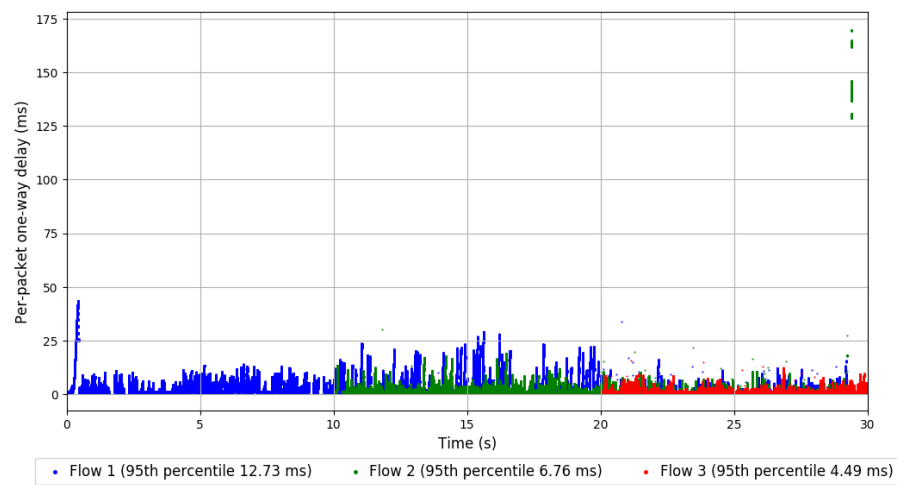
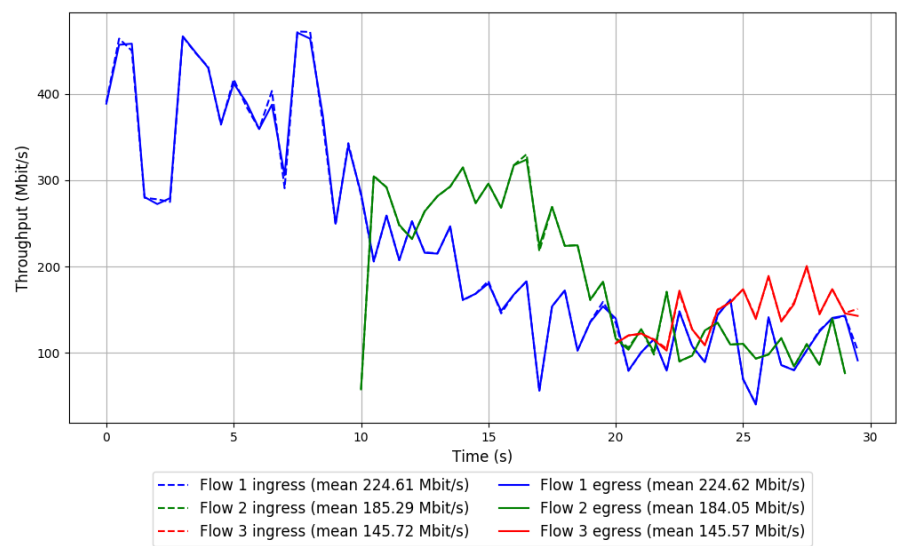
-- Flow 3:

Average throughput: 145.57 Mbit/s

95th percentile per-packet one-way delay: 4.491 ms

Loss rate: 0.30%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-03-06 15:09:22

End at: 2018-03-06 15:09:52

Local clock offset: 0.937 ms

Remote clock offset: 2.148 ms

Below is generated by plot.py at 2018-03-06 23:21:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 334.69 Mbit/s

95th percentile per-packet one-way delay: 10.910 ms

Loss rate: 3.08%

-- Flow 1:

Average throughput: 192.93 Mbit/s

95th percentile per-packet one-way delay: 12.830 ms

Loss rate: 2.37%

-- Flow 2:

Average throughput: 154.44 Mbit/s

95th percentile per-packet one-way delay: 8.575 ms

Loss rate: 4.06%

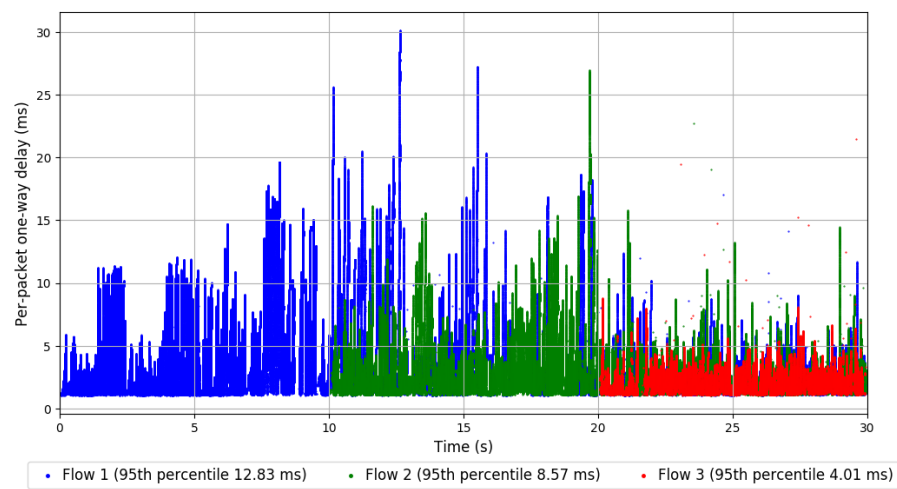
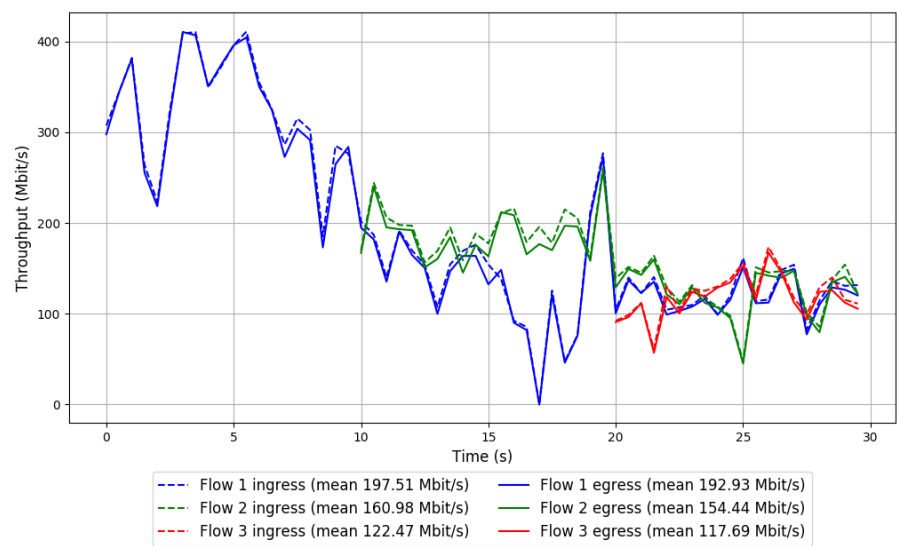
-- Flow 3:

Average throughput: 117.69 Mbit/s

95th percentile per-packet one-way delay: 4.008 ms

Loss rate: 3.92%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-03-06 15:38:33

End at: 2018-03-06 15:39:03

Local clock offset: 0.594 ms

Remote clock offset: 2.358 ms

Below is generated by plot.py at 2018-03-06 23:21:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 349.95 Mbit/s

95th percentile per-packet one-way delay: 121.618 ms

Loss rate: 1.97%

-- Flow 1:

Average throughput: 252.08 Mbit/s

95th percentile per-packet one-way delay: 14.014 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 85.79 Mbit/s

95th percentile per-packet one-way delay: 176.155 ms

Loss rate: 10.07%

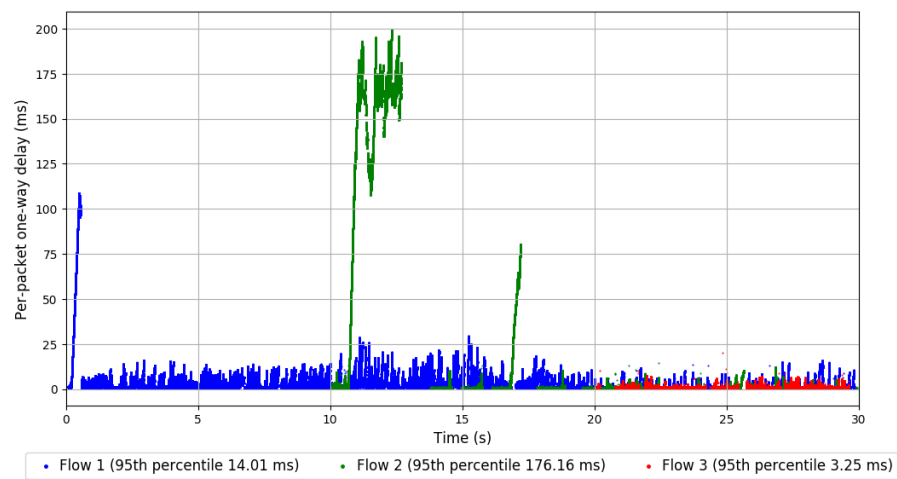
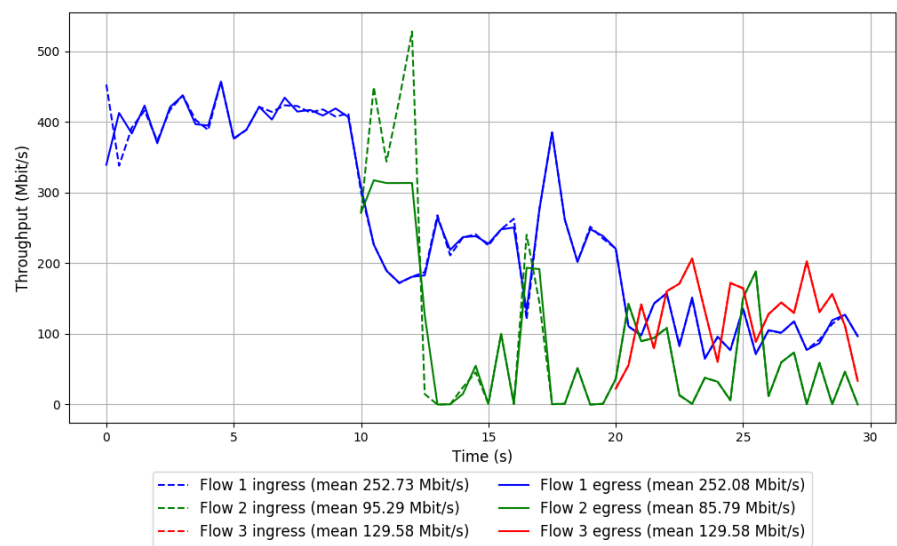
-- Flow 3:

Average throughput: 129.58 Mbit/s

95th percentile per-packet one-way delay: 3.252 ms

Loss rate: 0.00%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-03-06 16:07:53

End at: 2018-03-06 16:08:23

Local clock offset: -1.167 ms

Remote clock offset: 2.036 ms

Below is generated by plot.py at 2018-03-06 23:23:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 352.20 Mbit/s

95th percentile per-packet one-way delay: 8.821 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 212.32 Mbit/s

95th percentile per-packet one-way delay: 12.168 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 141.35 Mbit/s

95th percentile per-packet one-way delay: 4.751 ms

Loss rate: 0.00%

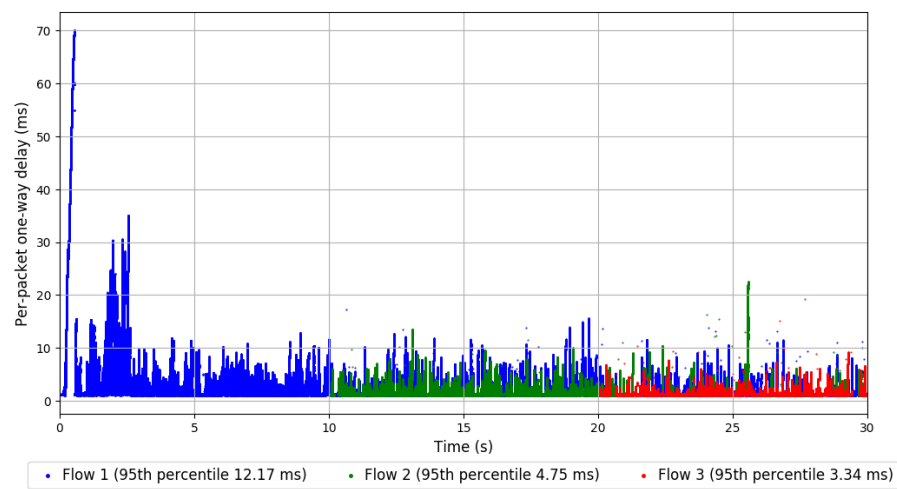
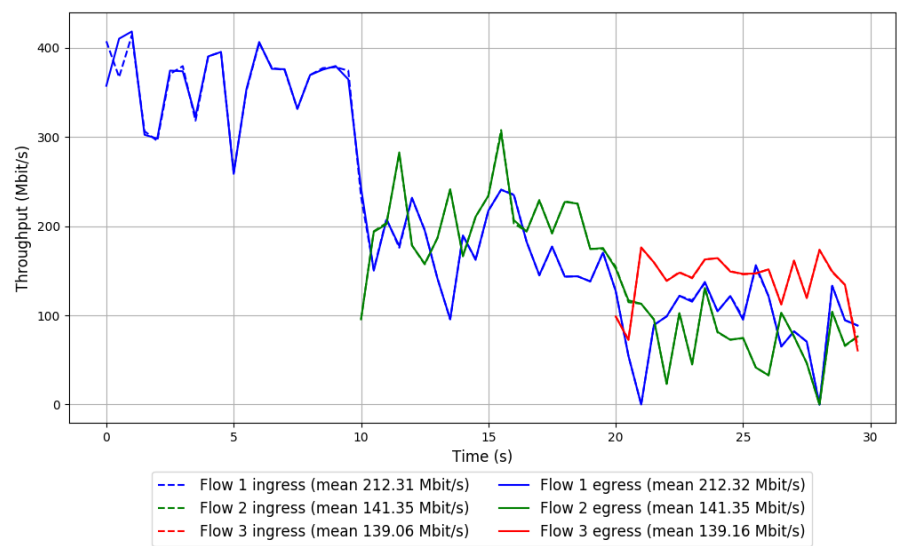
-- Flow 3:

Average throughput: 139.16 Mbit/s

95th percentile per-packet one-way delay: 3.339 ms

Loss rate: 0.17%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-03-06 16:36:48

End at: 2018-03-06 16:37:18

Local clock offset: -5.046 ms

Remote clock offset: 1.593 ms

Below is generated by plot.py at 2018-03-06 23:23:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 332.74 Mbit/s

95th percentile per-packet one-way delay: 8.977 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 208.13 Mbit/s

95th percentile per-packet one-way delay: 10.707 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 154.28 Mbit/s

95th percentile per-packet one-way delay: 4.943 ms

Loss rate: 0.04%

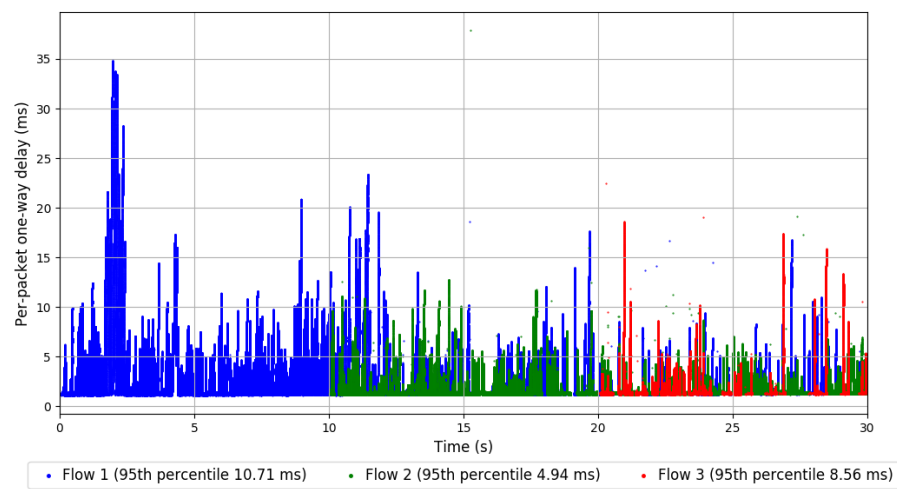
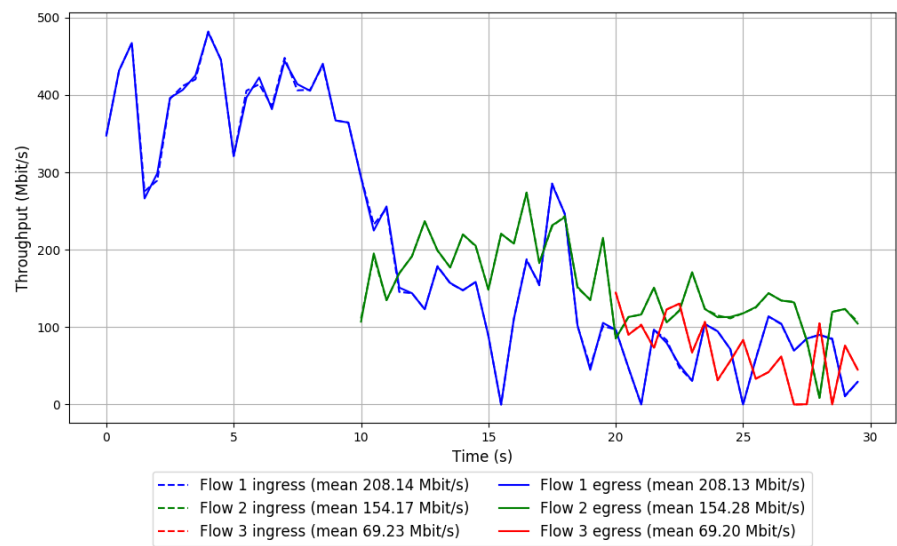
-- Flow 3:

Average throughput: 69.20 Mbit/s

95th percentile per-packet one-way delay: 8.557 ms

Loss rate: 0.00%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2018-03-06 11:56:15

End at: 2018-03-06 11:56:45

Local clock offset: 3.189 ms

Remote clock offset: 4.759 ms

Below is generated by plot.py at 2018-03-06 23:23:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 173.85 Mbit/s

95th percentile per-packet one-way delay: 2.099 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 88.51 Mbit/s

95th percentile per-packet one-way delay: 2.082 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 87.06 Mbit/s

95th percentile per-packet one-way delay: 2.098 ms

Loss rate: 0.04%

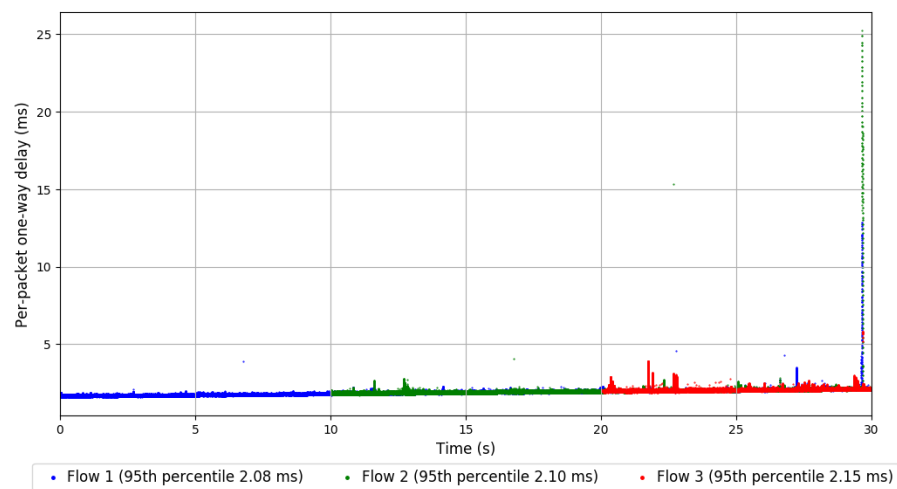
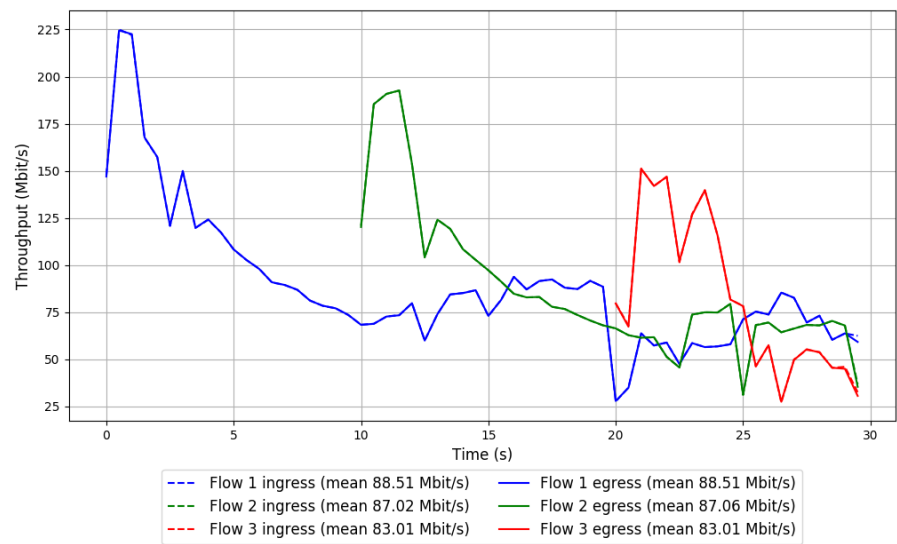
-- Flow 3:

Average throughput: 83.01 Mbit/s

95th percentile per-packet one-way delay: 2.145 ms

Loss rate: 0.19%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-03-06 12:25:57

End at: 2018-03-06 12:26:27

Local clock offset: -4.972 ms

Remote clock offset: 6.315 ms

Below is generated by plot.py at 2018-03-06 23:23:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 166.08 Mbit/s

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

Loss rate: 0.08%

-- Flow 1:

Average throughput: 88.22 Mbit/s

95th percentile per-packet one-way delay: 1.231 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 80.95 Mbit/s

95th percentile per-packet one-way delay: 1.246 ms

Loss rate: 0.08%

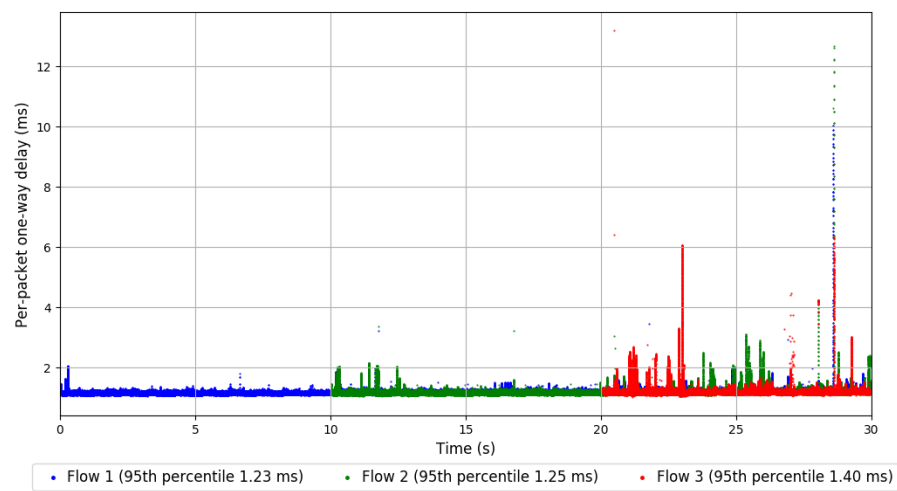
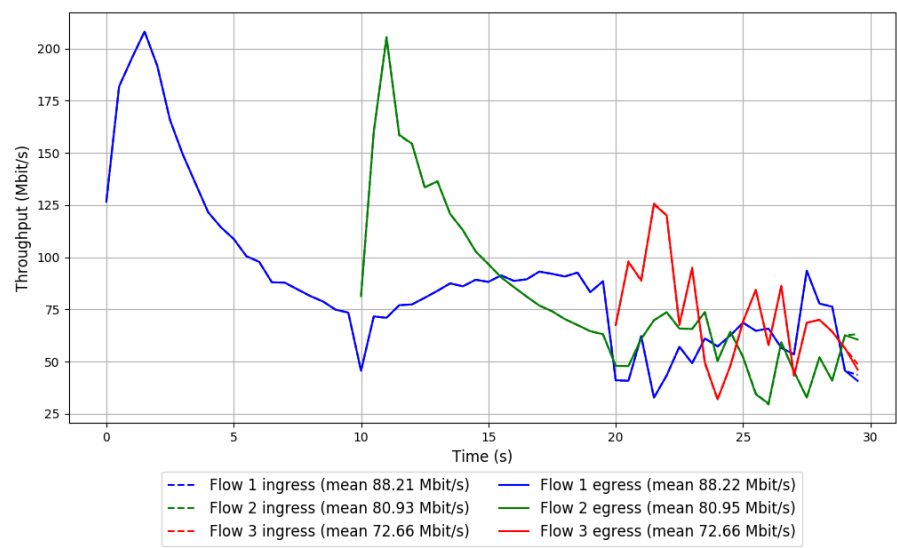
-- Flow 3:

Average throughput: 72.66 Mbit/s

95th percentile per-packet one-way delay: 1.403 ms

Loss rate: 0.19%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-03-06 12:55:40

End at: 2018-03-06 12:56:10

Local clock offset: -4.812 ms

Remote clock offset: 4.715 ms

Below is generated by plot.py at 2018-03-06 23:25:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 167.33 Mbit/s

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

Loss rate: 0.07%

-- Flow 1:

Average throughput: 86.89 Mbit/s

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

Loss rate: 0.05%

-- Flow 2:

Average throughput: 86.27 Mbit/s

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

Loss rate: 0.08%

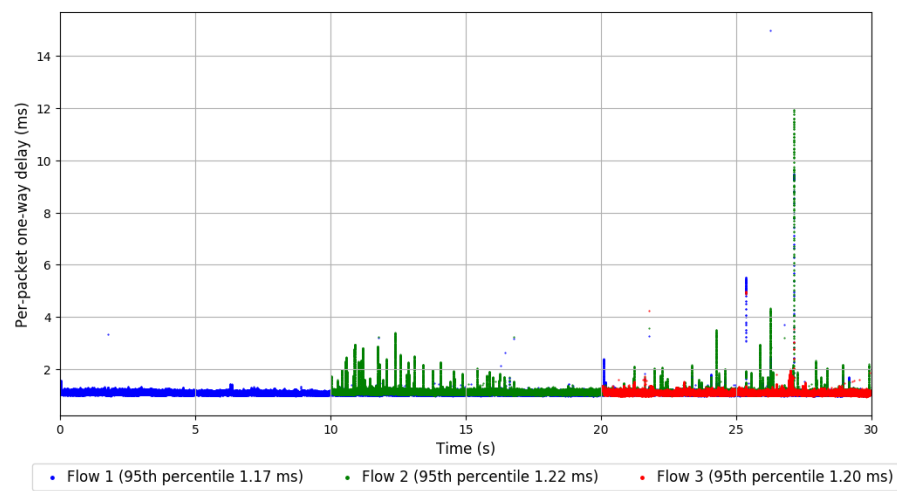
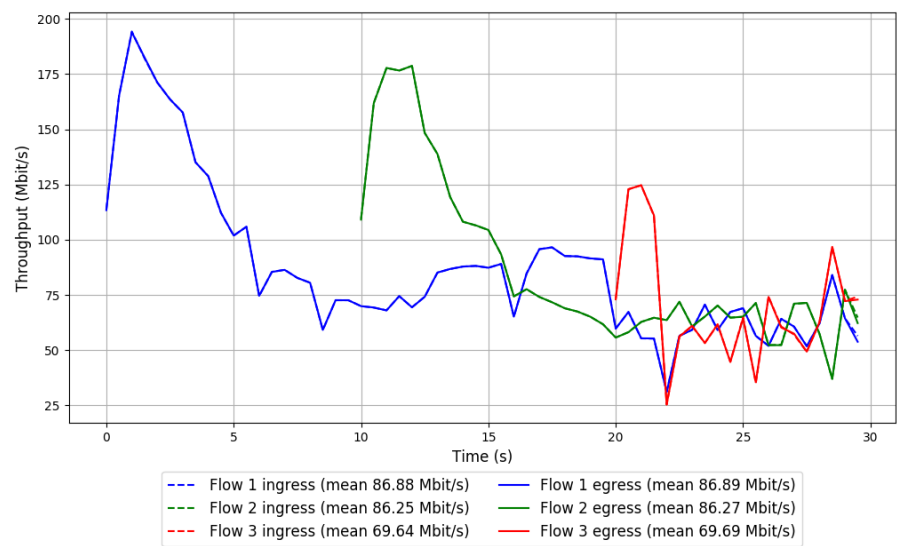
-- Flow 3:

Average throughput: 69.69 Mbit/s

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

Loss rate: 0.11%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-03-06 13:24:55

End at: 2018-03-06 13:25:25

Local clock offset: -4.736 ms

Remote clock offset: 0.914 ms

Below is generated by plot.py at 2018-03-06 23:25:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 169.20 Mbit/s

95th percentile per-packet one-way delay: 0.917 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 84.49 Mbit/s

95th percentile per-packet one-way delay: 0.919 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 83.57 Mbit/s

95th percentile per-packet one-way delay: 0.915 ms

Loss rate: 0.08%

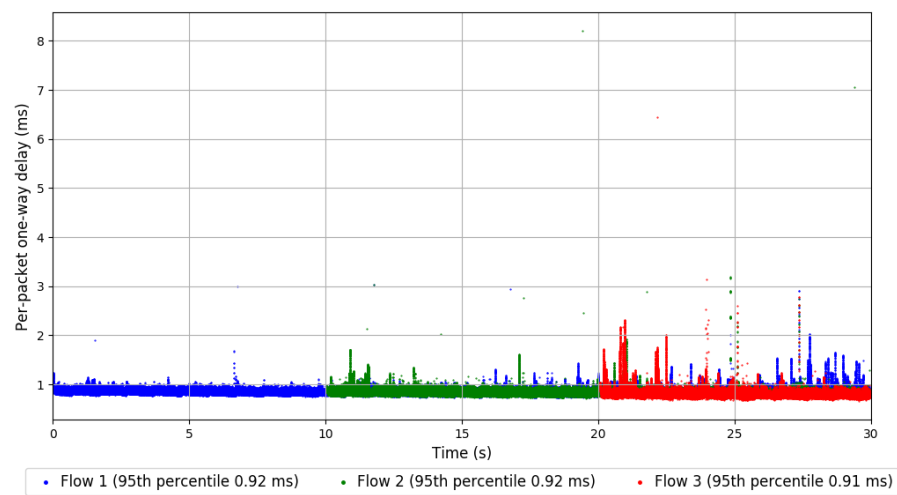
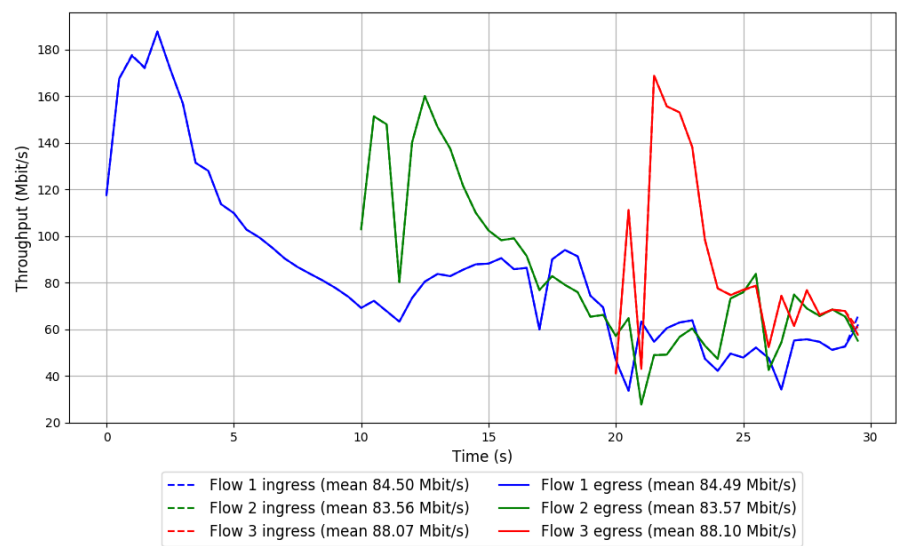
-- Flow 3:

Average throughput: 88.10 Mbit/s

95th percentile per-packet one-way delay: 0.906 ms

Loss rate: 0.16%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-03-06 13:54:29

End at: 2018-03-06 13:54:59

Local clock offset: 2.064 ms

Remote clock offset: 0.153 ms

Below is generated by plot.py at 2018-03-06 23:25:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 165.66 Mbit/s

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

Loss rate: 0.07%

-- Flow 1:

Average throughput: 86.48 Mbit/s

95th percentile per-packet one-way delay: 1.088 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 78.67 Mbit/s

95th percentile per-packet one-way delay: 1.134 ms

Loss rate: 0.07%

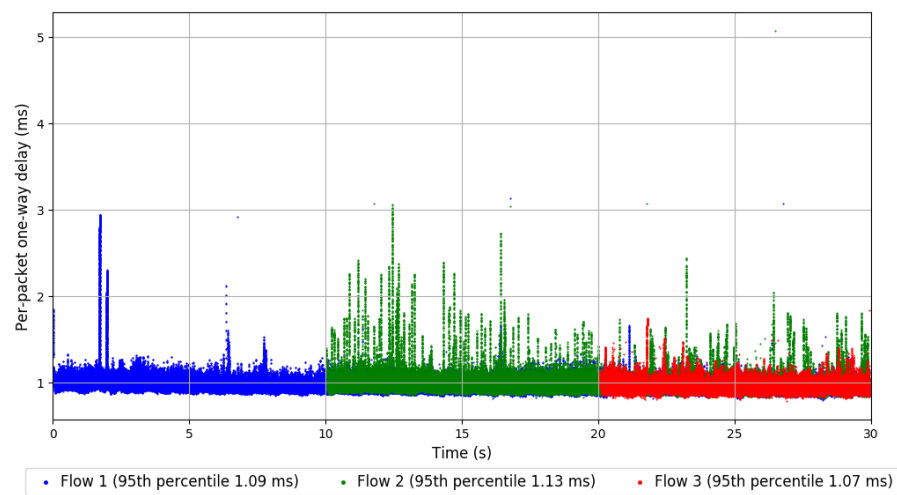
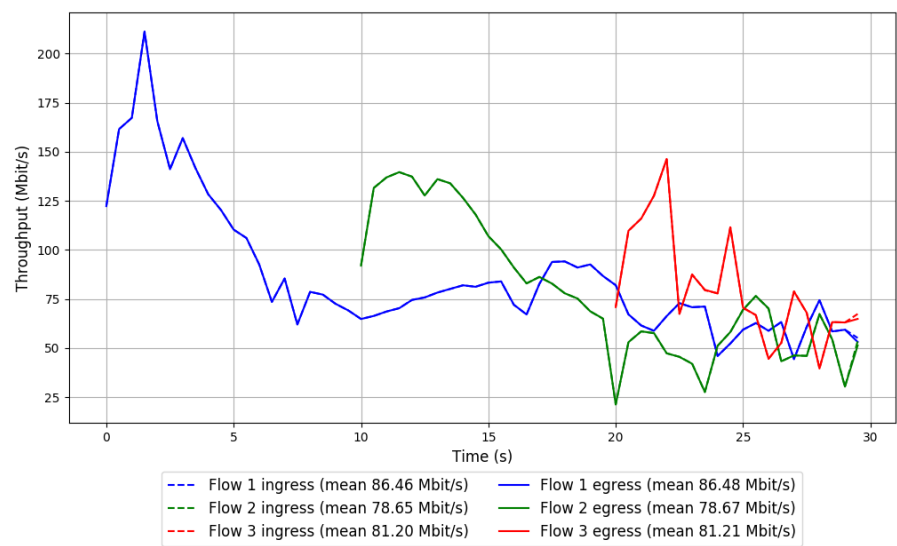
-- Flow 3:

Average throughput: 81.21 Mbit/s

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

Loss rate: 0.16%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-03-06 14:23:56

End at: 2018-03-06 14:24:26

Local clock offset: 3.921 ms

Remote clock offset: 0.929 ms

Below is generated by plot.py at 2018-03-06 23:26:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 168.00 Mbit/s

95th percentile per-packet one-way delay: 1.110 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 86.06 Mbit/s

95th percentile per-packet one-way delay: 1.109 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 86.33 Mbit/s

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

Loss rate: 0.08%

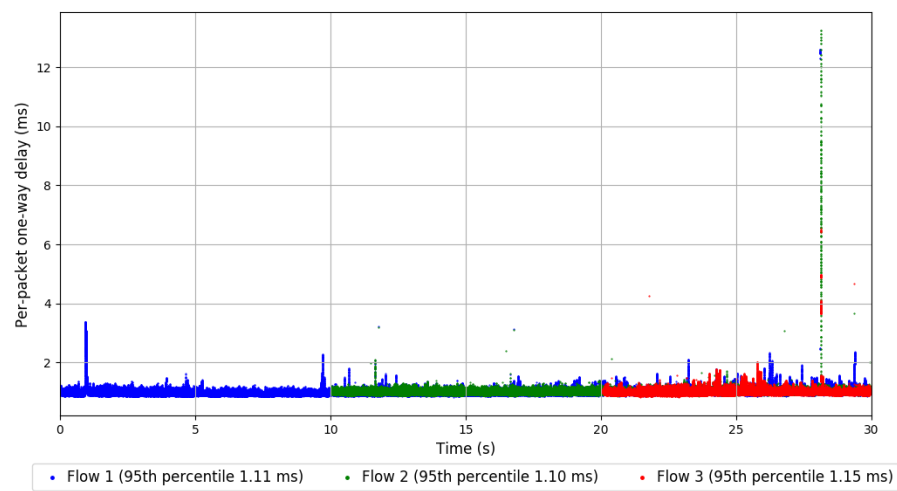
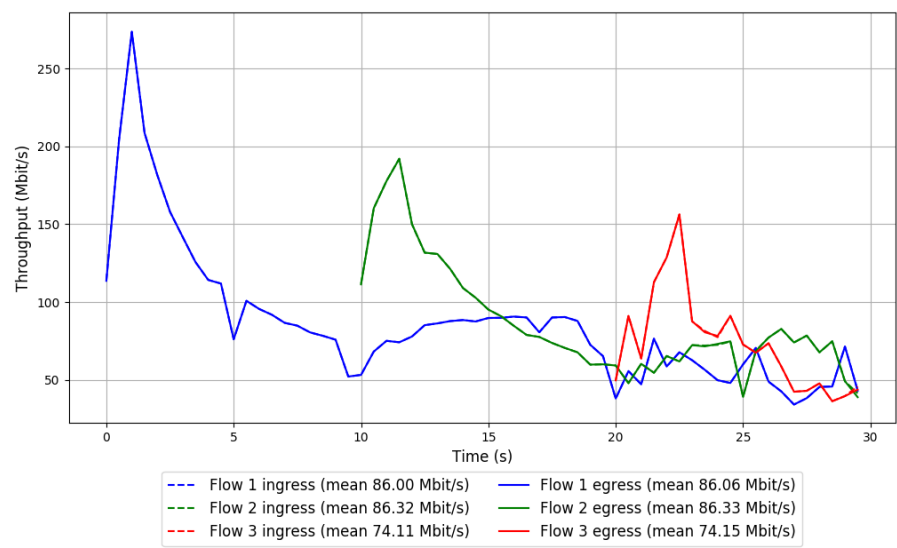
-- Flow 3:

Average throughput: 74.15 Mbit/s

95th percentile per-packet one-way delay: 1.147 ms

Loss rate: 0.14%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-03-06 14:53:27

End at: 2018-03-06 14:53:57

Local clock offset: 2.28 ms

Remote clock offset: 2.046 ms

Below is generated by plot.py at 2018-03-06 23:27:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 165.25 Mbit/s

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

Loss rate: 0.06%

-- Flow 1:

Average throughput: 88.29 Mbit/s

95th percentile per-packet one-way delay: 1.420 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 86.85 Mbit/s

95th percentile per-packet one-way delay: 1.422 ms

Loss rate: 0.02%

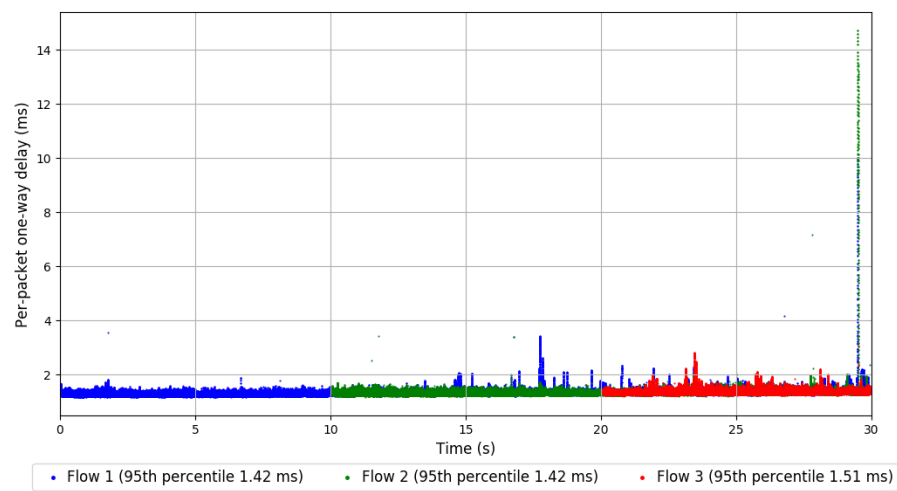
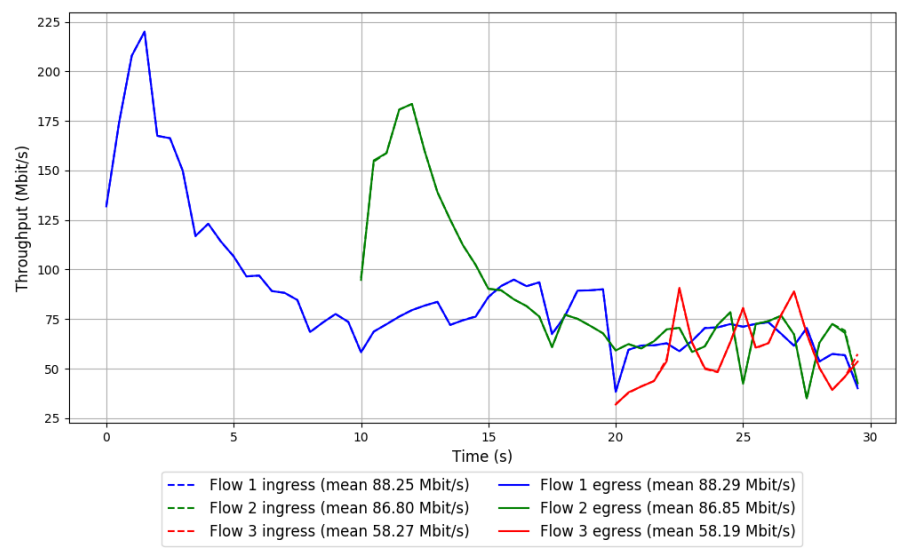
-- Flow 3:

Average throughput: 58.19 Mbit/s

95th percentile per-packet one-way delay: 1.514 ms

Loss rate: 0.33%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-03-06 15:27:46

End at: 2018-03-06 15:28:16

Local clock offset: 0.607 ms

Remote clock offset: 2.298 ms

Below is generated by plot.py at 2018-03-06 23:27:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 165.96 Mbit/s

95th percentile per-packet one-way delay: 1.181 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 84.77 Mbit/s

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

Loss rate: 0.01%

-- Flow 2:

Average throughput: 81.89 Mbit/s

95th percentile per-packet one-way delay: 1.191 ms

Loss rate: 0.06%

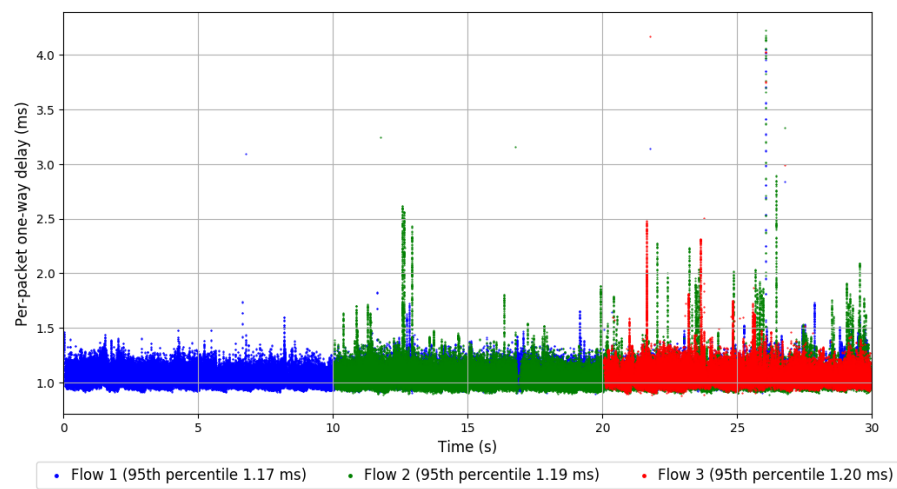
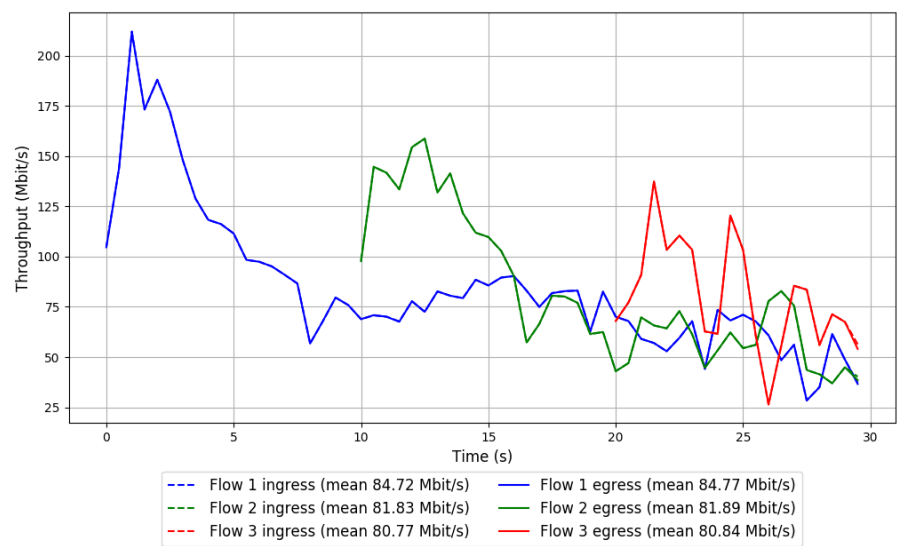
-- Flow 3:

Average throughput: 80.84 Mbit/s

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

Loss rate: 0.15%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-03-06 15:56:59

End at: 2018-03-06 15:57:29

Local clock offset: -0.184 ms

Remote clock offset: 2.346 ms

Below is generated by plot.py at 2018-03-06 23:27:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 171.13 Mbit/s

95th percentile per-packet one-way delay: 1.287 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 88.03 Mbit/s

95th percentile per-packet one-way delay: 1.280 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 84.61 Mbit/s

95th percentile per-packet one-way delay: 1.290 ms

Loss rate: 0.06%

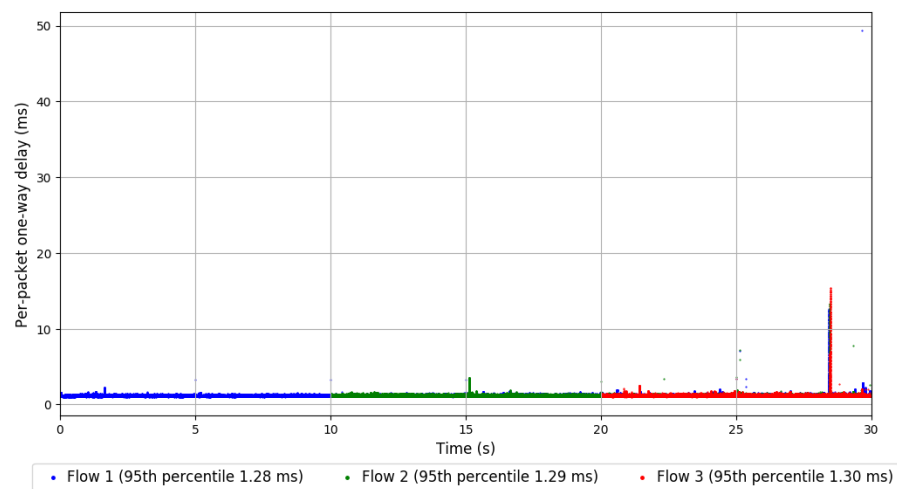
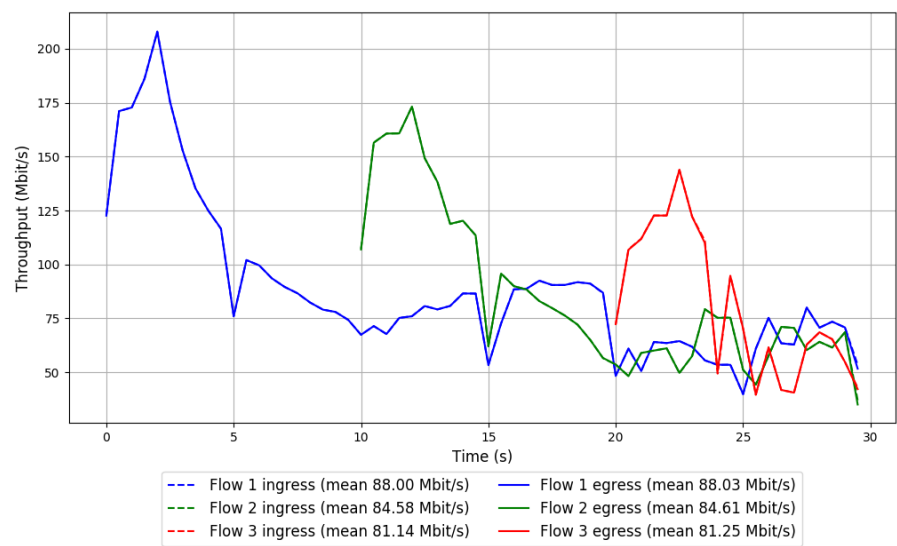
-- Flow 3:

Average throughput: 81.25 Mbit/s

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

Loss rate: 0.05%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-03-06 16:25:54

End at: 2018-03-06 16:26:24

Local clock offset: -1.98 ms

Remote clock offset: 1.618 ms

Below is generated by plot.py at 2018-03-06 23:27:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 170.69 Mbit/s

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

Loss rate: 0.05%

-- Flow 1:

Average throughput: 86.67 Mbit/s

95th percentile per-packet one-way delay: 1.270 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 86.64 Mbit/s

95th percentile per-packet one-way delay: 1.273 ms

Loss rate: 0.02%

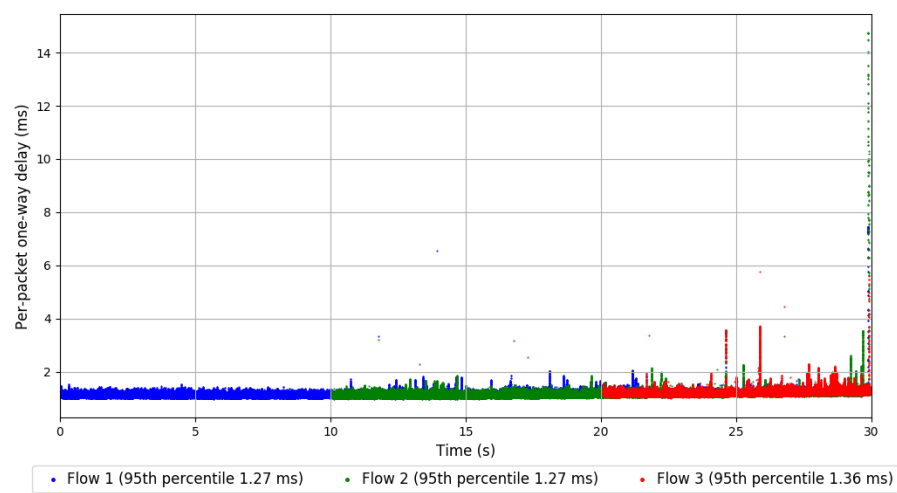
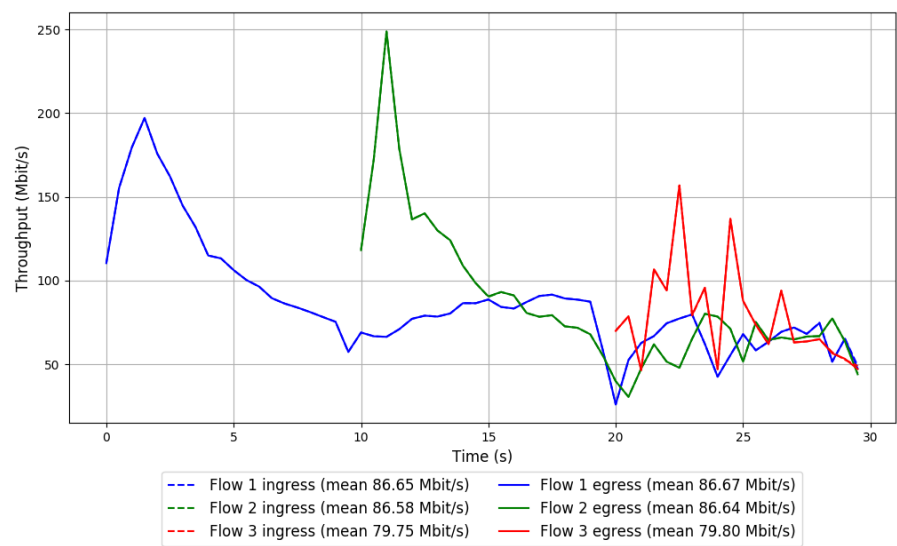
-- Flow 3:

Average throughput: 79.80 Mbit/s

95th percentile per-packet one-way delay: 1.361 ms

Loss rate: 0.13%

Run 10: Report of Copa — Data Link

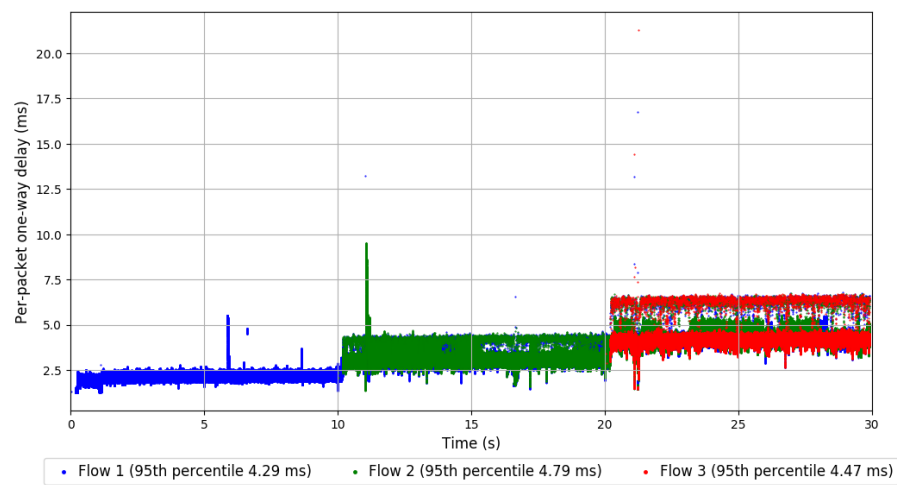
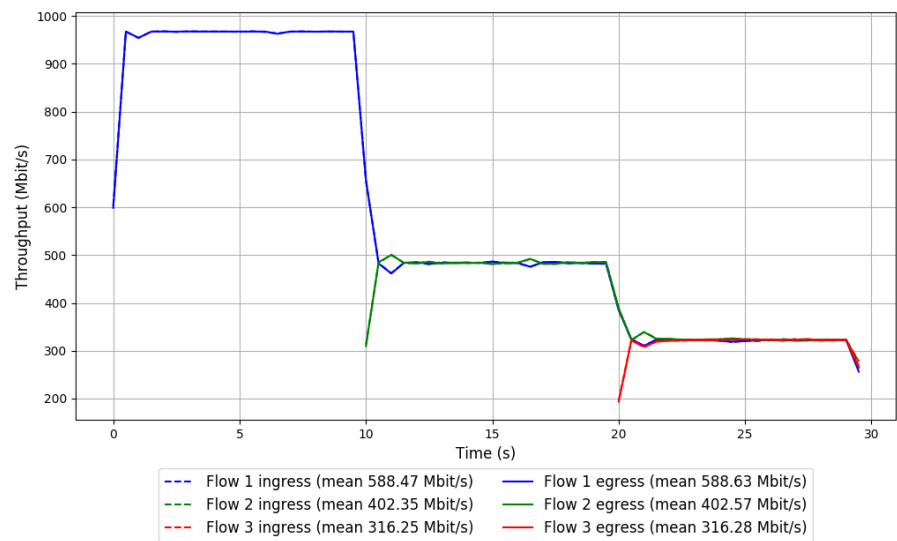


```
Run 1: Statistics of FillP

Start at: 2018-03-06 12:00:56
End at: 2018-03-06 12:01:26
Local clock offset: -0.241 ms
Remote clock offset: 5.09 ms

# Below is generated by plot.py at 2018-03-06 23:39:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 960.73 Mbit/s
95th percentile per-packet one-way delay: 4.461 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 588.63 Mbit/s
95th percentile per-packet one-way delay: 4.293 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 402.57 Mbit/s
95th percentile per-packet one-way delay: 4.787 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 316.28 Mbit/s
95th percentile per-packet one-way delay: 4.472 ms
Loss rate: 0.24%
```


Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-03-06 12:30:37

End at: 2018-03-06 12:31:07

Local clock offset: -4.932 ms

Remote clock offset: 6.569 ms

Below is generated by plot.py at 2018-03-06 23:40:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 960.42 Mbit/s

95th percentile per-packet one-way delay: 3.959 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 589.91 Mbit/s

95th percentile per-packet one-way delay: 3.883 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 399.16 Mbit/s

95th percentile per-packet one-way delay: 4.026 ms

Loss rate: 0.09%

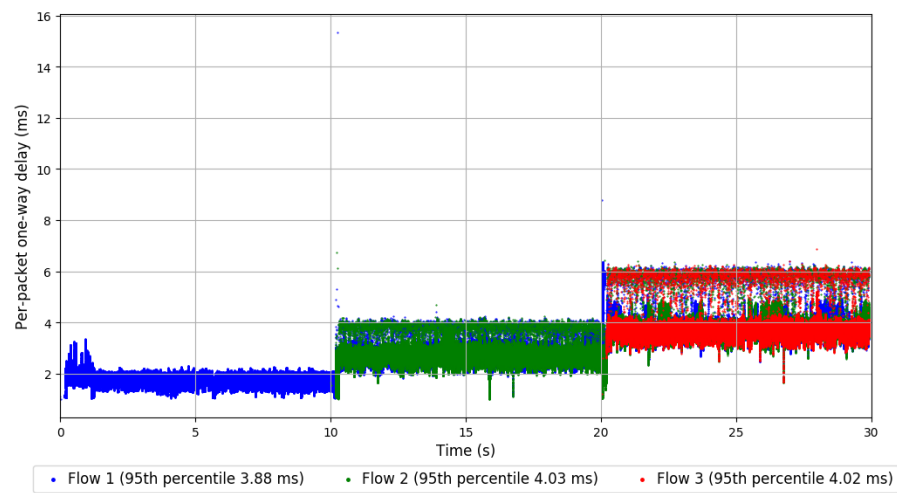
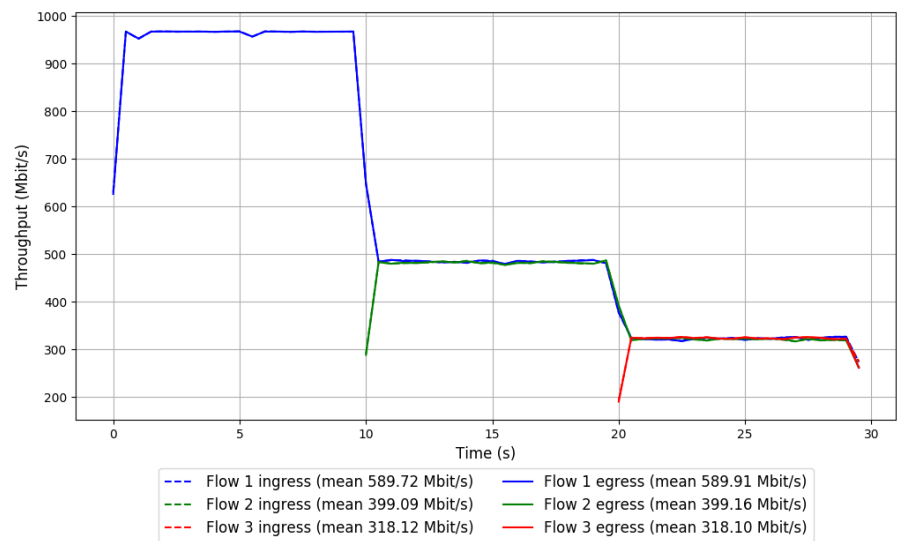
-- Flow 3:

Average throughput: 318.10 Mbit/s

95th percentile per-packet one-way delay: 4.023 ms

Loss rate: 0.23%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-03-06 13:00:12

End at: 2018-03-06 13:00:42

Local clock offset: -4.86 ms

Remote clock offset: 4.615 ms

Below is generated by plot.py at 2018-03-06 23:40:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 961.02 Mbit/s

95th percentile per-packet one-way delay: 4.002 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 591.44 Mbit/s

95th percentile per-packet one-way delay: 3.880 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 400.88 Mbit/s

95th percentile per-packet one-way delay: 4.125 ms

Loss rate: 0.10%

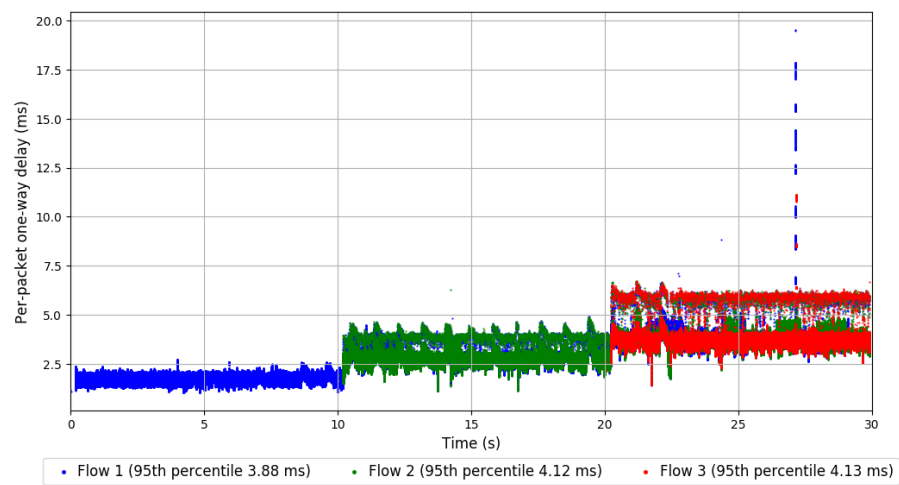
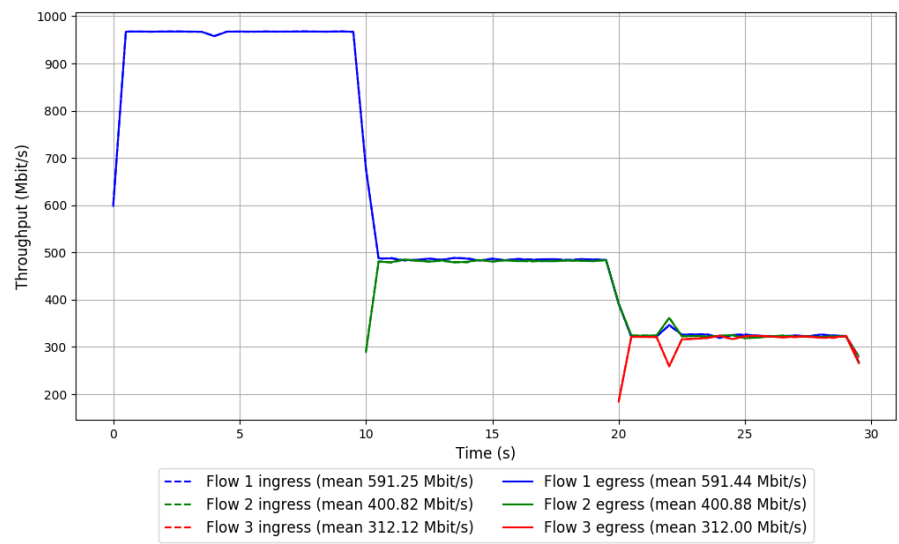
-- Flow 3:

Average throughput: 312.00 Mbit/s

95th percentile per-packet one-way delay: 4.130 ms

Loss rate: 0.24%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-03-06 13:29:26

End at: 2018-03-06 13:29:56

Local clock offset: -4.689 ms

Remote clock offset: 0.182 ms

Below is generated by plot.py at 2018-03-06 23:41:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 960.06 Mbit/s

95th percentile per-packet one-way delay: 3.904 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 589.62 Mbit/s

95th percentile per-packet one-way delay: 3.844 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 400.76 Mbit/s

95th percentile per-packet one-way delay: 3.910 ms

Loss rate: 0.10%

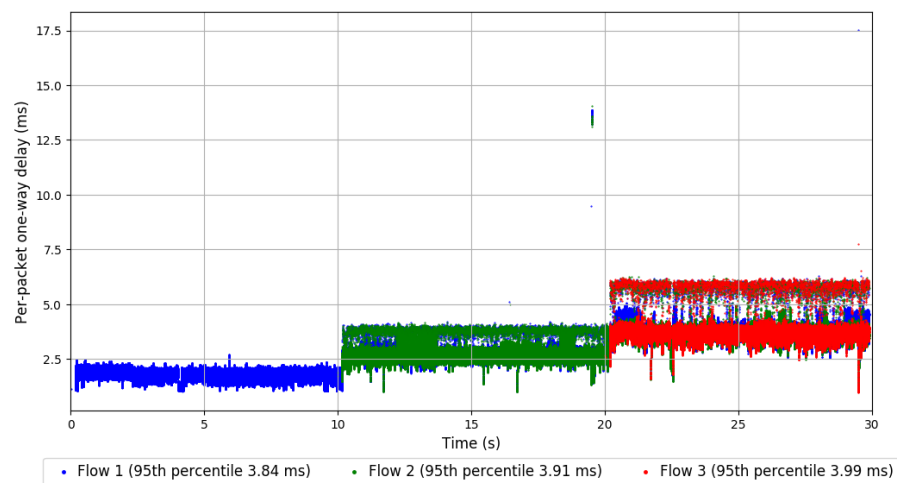
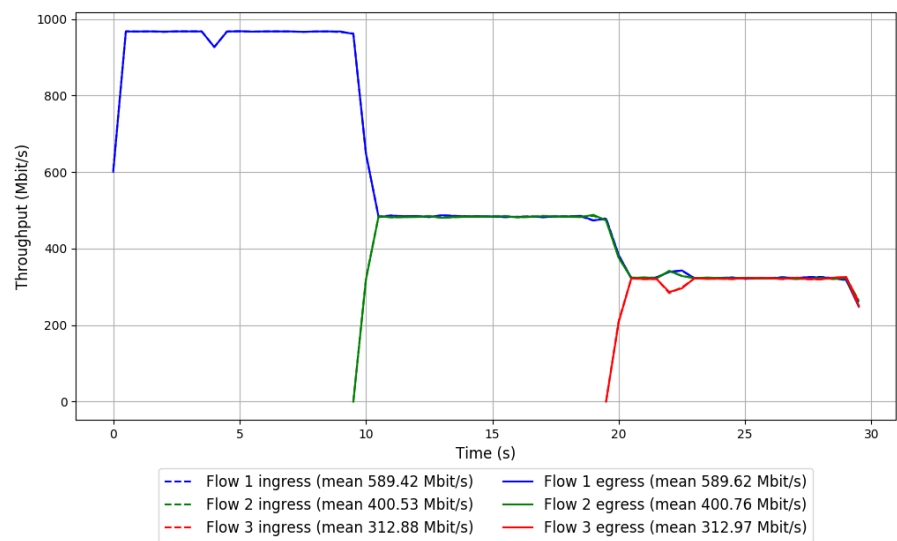
-- Flow 3:

Average throughput: 312.97 Mbit/s

95th percentile per-packet one-way delay: 3.992 ms

Loss rate: 0.22%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-03-06 13:59:00

End at: 2018-03-06 13:59:30

Local clock offset: 2.781 ms

Remote clock offset: 0.377 ms

Below is generated by plot.py at 2018-03-06 23:42:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 960.99 Mbit/s

95th percentile per-packet one-way delay: 3.855 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 589.25 Mbit/s

95th percentile per-packet one-way delay: 3.783 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 401.60 Mbit/s

95th percentile per-packet one-way delay: 3.931 ms

Loss rate: 0.09%

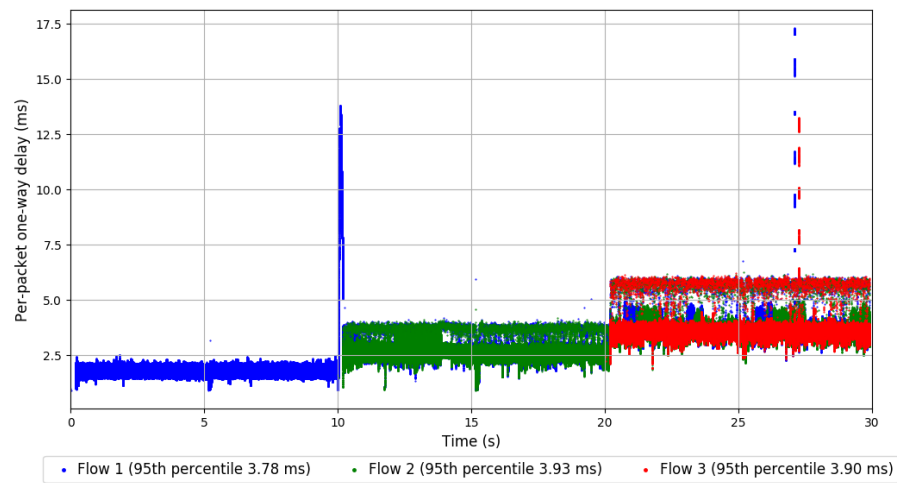
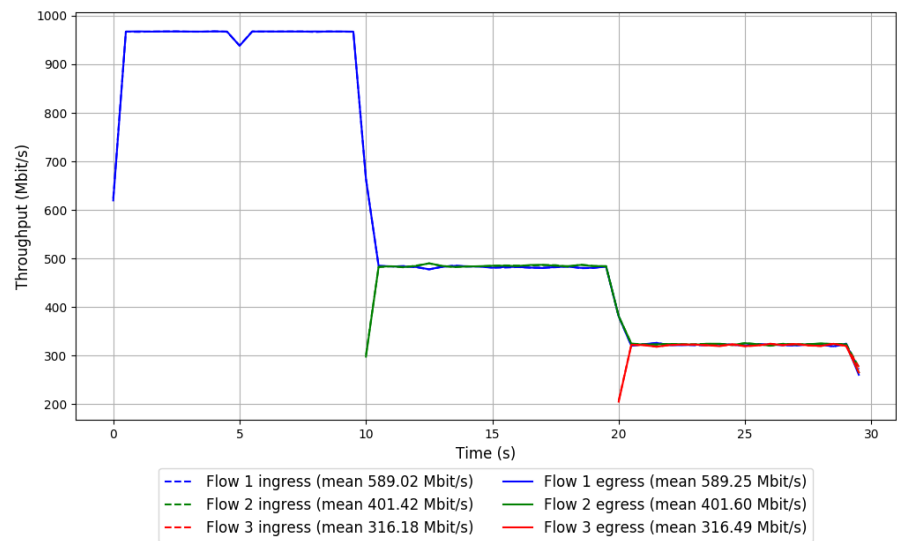
-- Flow 3:

Average throughput: 316.49 Mbit/s

95th percentile per-packet one-way delay: 3.897 ms

Loss rate: 0.21%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-03-06 14:28:26

End at: 2018-03-06 14:28:56

Local clock offset: 4.243 ms

Remote clock offset: 1.326 ms

Below is generated by plot.py at 2018-03-06 23:42:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 960.69 Mbit/s

95th percentile per-packet one-way delay: 4.349 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 589.54 Mbit/s

95th percentile per-packet one-way delay: 4.206 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 401.12 Mbit/s

95th percentile per-packet one-way delay: 4.465 ms

Loss rate: 0.08%

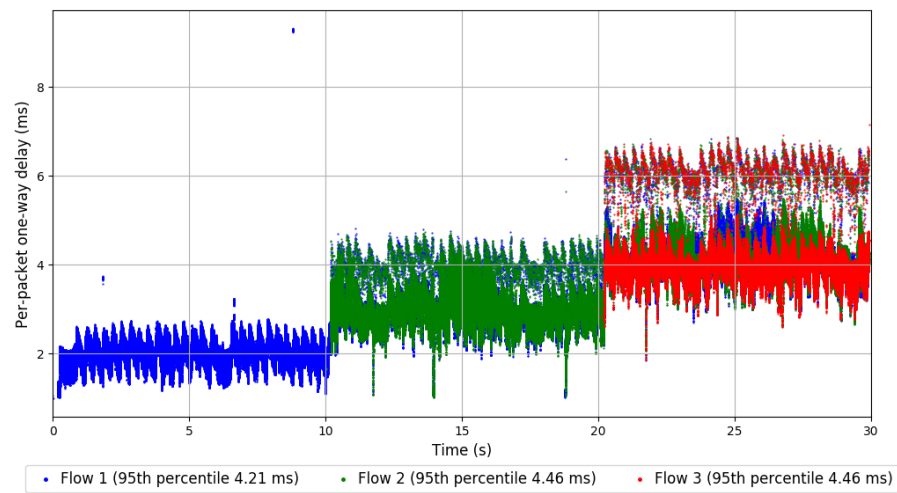
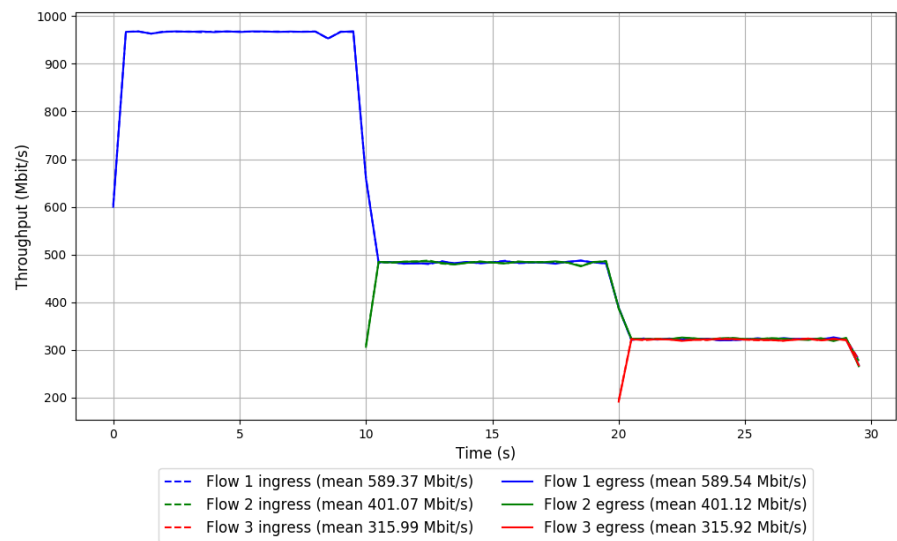
-- Flow 3:

Average throughput: 315.92 Mbit/s

95th percentile per-packet one-way delay: 4.464 ms

Loss rate: 0.23%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-03-06 15:03:00

End at: 2018-03-06 15:03:30

Local clock offset: 1.099 ms

Remote clock offset: 2.206 ms

Below is generated by plot.py at 2018-03-06 23:42:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 920.40 Mbit/s

95th percentile per-packet one-way delay: 60.338 ms

Loss rate: 2.46%

-- Flow 1:

Average throughput: 548.91 Mbit/s

95th percentile per-packet one-way delay: 61.018 ms

Loss rate: 3.96%

-- Flow 2:

Average throughput: 401.88 Mbit/s

95th percentile per-packet one-way delay: 4.989 ms

Loss rate: 0.11%

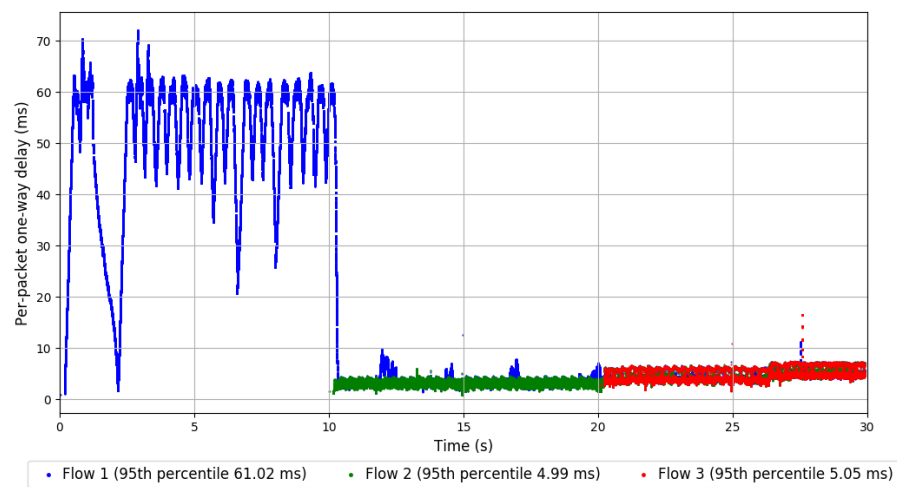
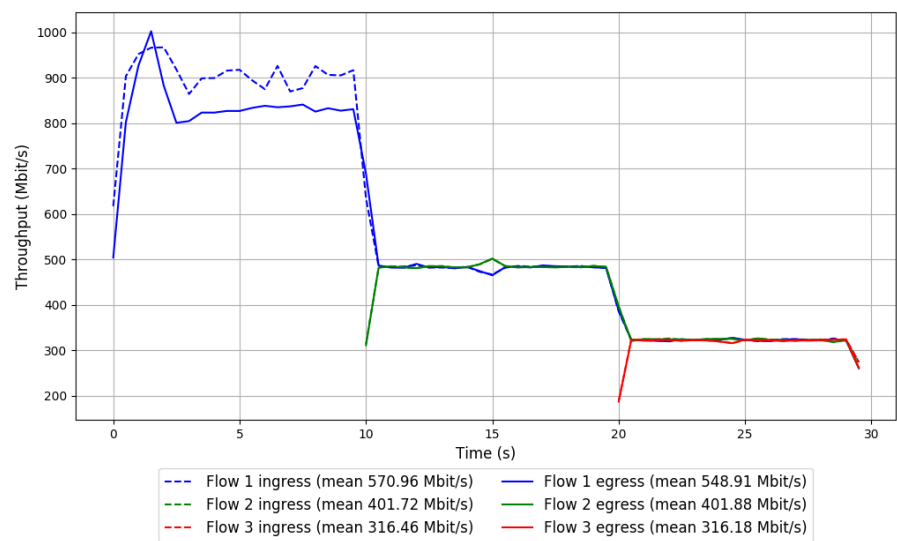
-- Flow 3:

Average throughput: 316.18 Mbit/s

95th percentile per-packet one-way delay: 5.048 ms

Loss rate: 0.31%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-03-06 15:32:10

End at: 2018-03-06 15:32:40

Local clock offset: 0.716 ms

Remote clock offset: 2.283 ms

Below is generated by plot.py at 2018-03-06 23:42:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 934.48 Mbit/s

95th percentile per-packet one-way delay: 57.147 ms

Loss rate: 2.14%

-- Flow 1:

Average throughput: 565.06 Mbit/s

95th percentile per-packet one-way delay: 57.689 ms

Loss rate: 3.38%

-- Flow 2:

Average throughput: 400.82 Mbit/s

95th percentile per-packet one-way delay: 5.280 ms

Loss rate: 0.14%

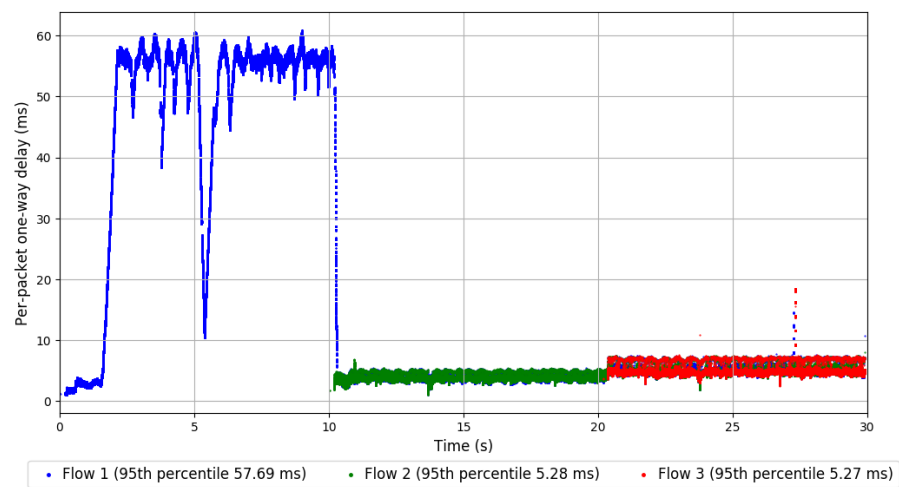
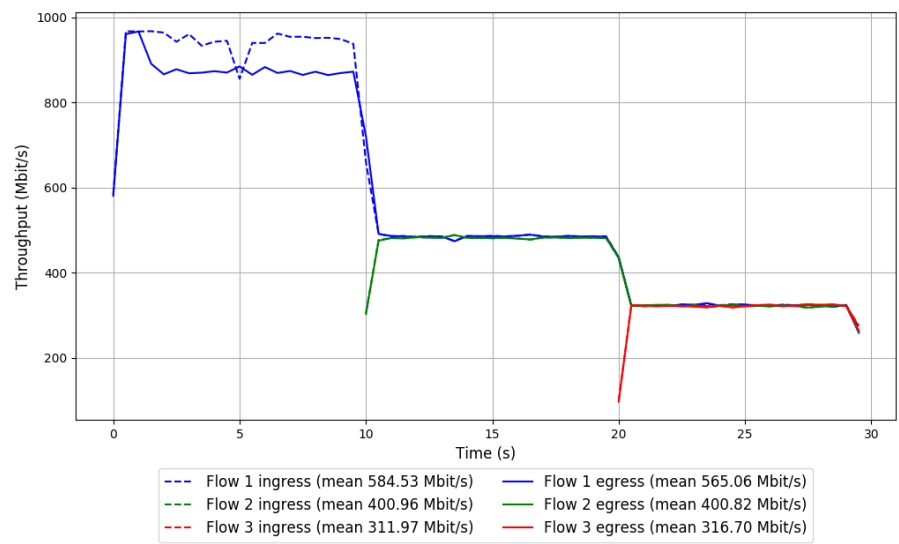
-- Flow 3:

Average throughput: 316.70 Mbit/s

95th percentile per-packet one-way delay: 5.272 ms

Loss rate: 0.27%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-03-06 16:01:32

End at: 2018-03-06 16:02:02

Local clock offset: -0.712 ms

Remote clock offset: 2.421 ms

Below is generated by plot.py at 2018-03-06 23:54:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 960.55 Mbit/s

95th percentile per-packet one-way delay: 4.087 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 589.42 Mbit/s

95th percentile per-packet one-way delay: 3.981 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 400.87 Mbit/s

95th percentile per-packet one-way delay: 4.211 ms

Loss rate: 0.09%

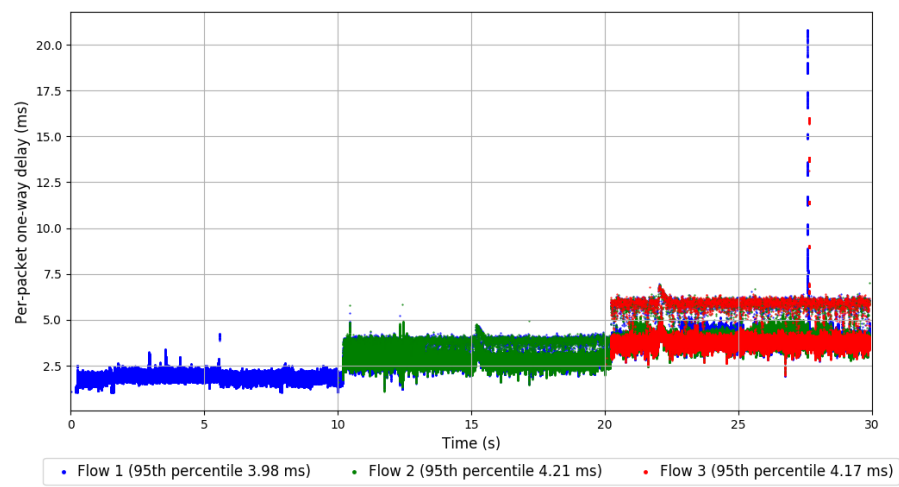
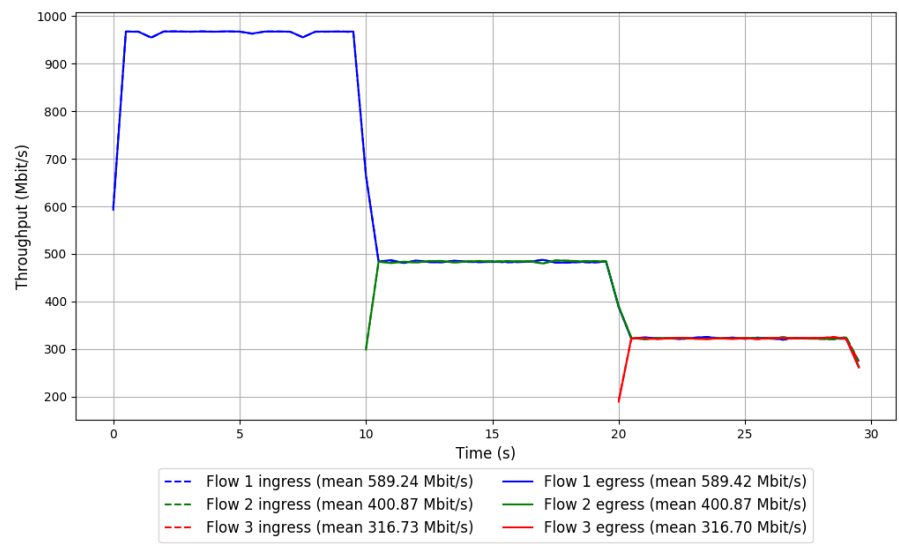
-- Flow 3:

Average throughput: 316.70 Mbit/s

95th percentile per-packet one-way delay: 4.171 ms

Loss rate: 0.24%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-03-06 16:30:26

End at: 2018-03-06 16:30:56

Local clock offset: -3.404 ms

Remote clock offset: 1.646 ms

Below is generated by plot.py at 2018-03-06 23:55:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 944.18 Mbit/s

95th percentile per-packet one-way delay: 55.564 ms

Loss rate: 1.62%

-- Flow 1:

Average throughput: 572.76 Mbit/s

95th percentile per-packet one-way delay: 55.945 ms

Loss rate: 2.56%

-- Flow 2:

Average throughput: 401.53 Mbit/s

95th percentile per-packet one-way delay: 4.762 ms

Loss rate: 0.09%

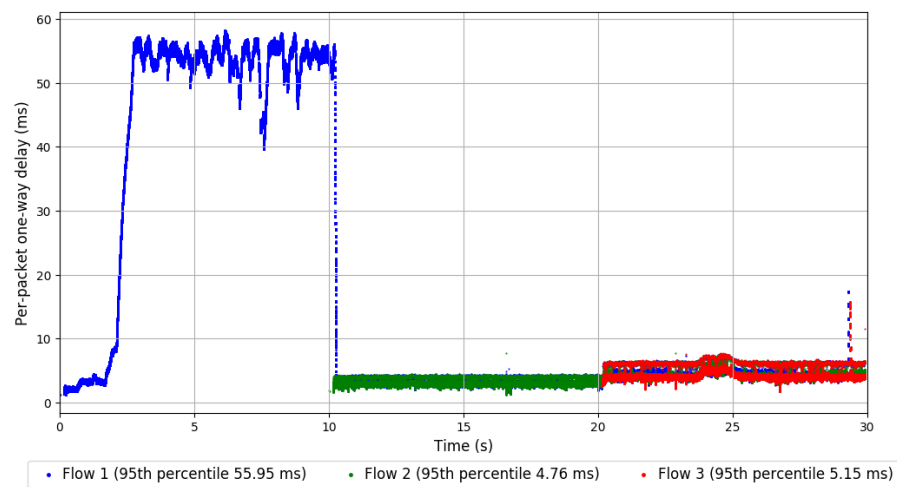
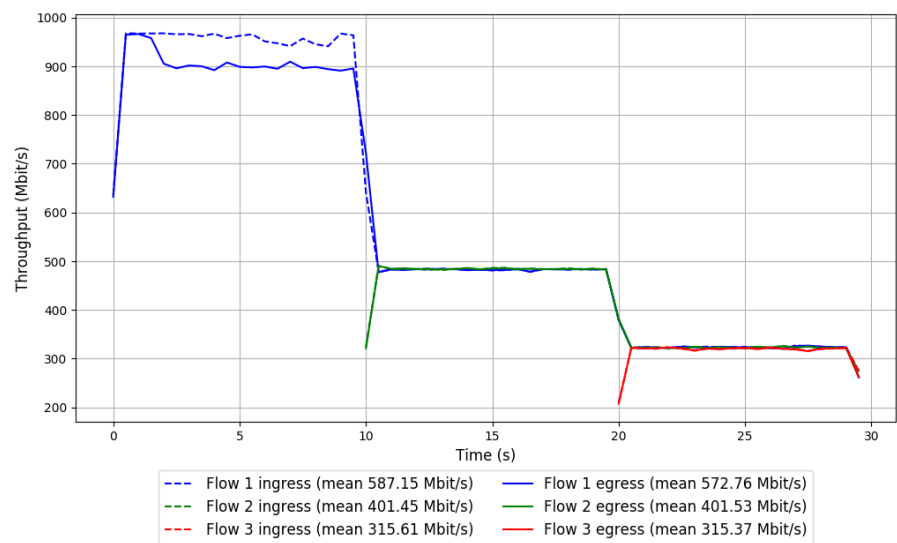
-- Flow 3:

Average throughput: 315.37 Mbit/s

95th percentile per-packet one-way delay: 5.154 ms

Loss rate: 0.23%

Run 10: Report of FillP — Data Link



Run 1: Statistics of Indigo-1-32

Start at: 2018-03-06 11:44:58

End at: 2018-03-06 11:45:28

Local clock offset: 4.644 ms

Remote clock offset: 4.183 ms

Below is generated by plot.py at 2018-03-06 23:55:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 326.47 Mbit/s

95th percentile per-packet one-way delay: 1.356 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 175.40 Mbit/s

95th percentile per-packet one-way delay: 1.298 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 155.11 Mbit/s

95th percentile per-packet one-way delay: 1.470 ms

Loss rate: 0.09%

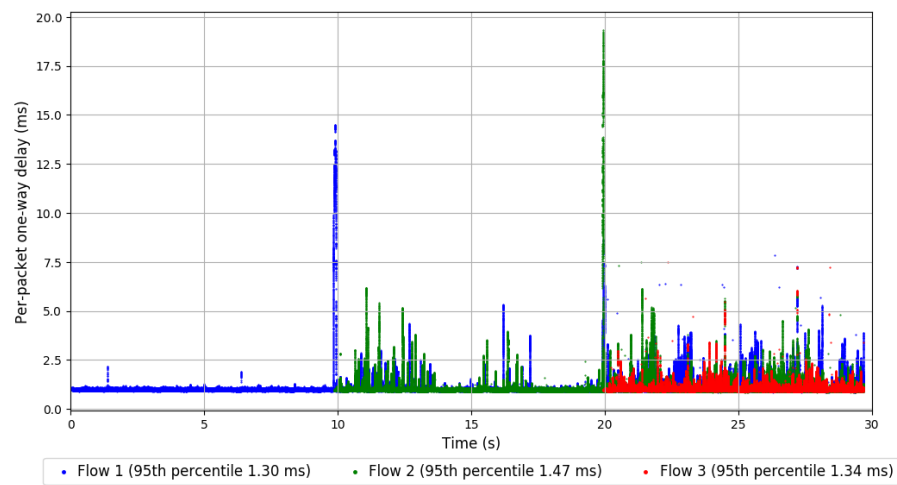
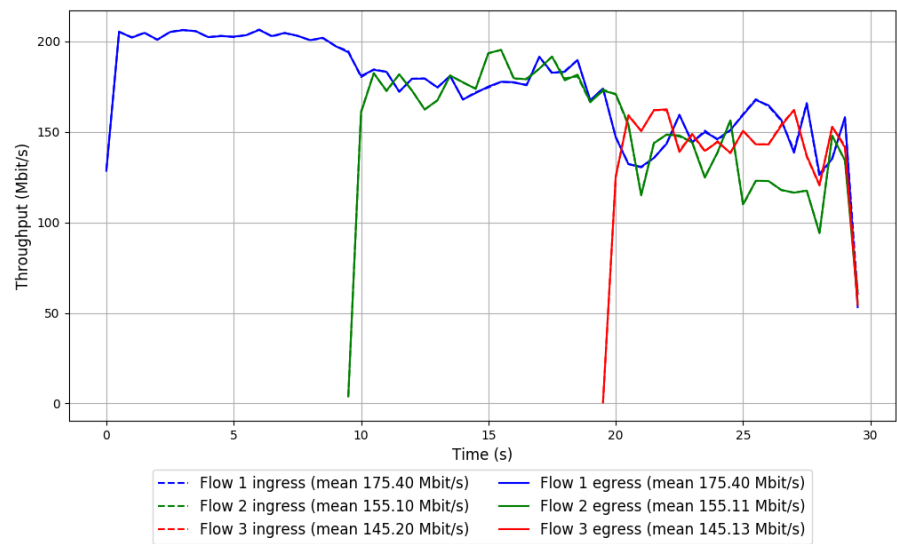
-- Flow 3:

Average throughput: 145.13 Mbit/s

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

Loss rate: 0.23%

Run 1: Report of Indigo-1-32 — Data Link



Run 2: Statistics of Indigo-1-32

Start at: 2018-03-06 12:14:44

End at: 2018-03-06 12:15:14

Local clock offset: -4.159 ms

Remote clock offset: 5.753 ms

Below is generated by plot.py at 2018-03-06 23:55:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 324.75 Mbit/s

95th percentile per-packet one-way delay: 1.501 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 177.25 Mbit/s

95th percentile per-packet one-way delay: 1.382 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 163.35 Mbit/s

95th percentile per-packet one-way delay: 1.726 ms

Loss rate: 0.09%

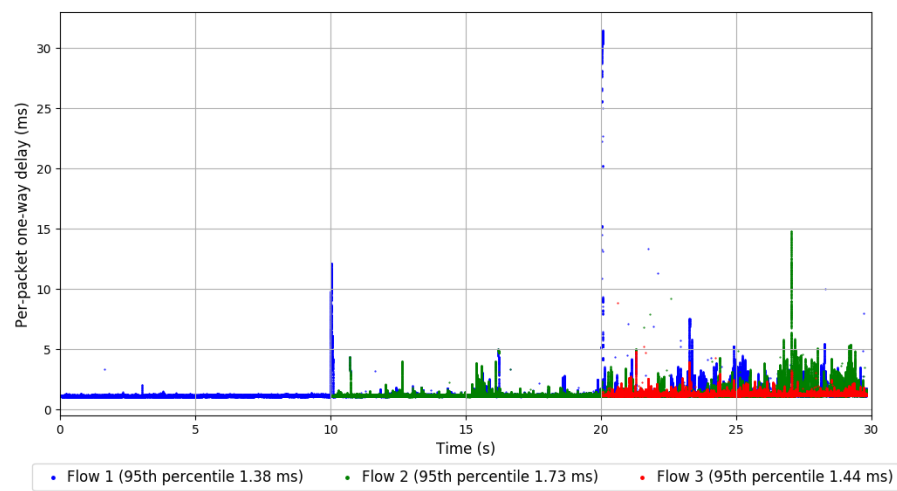
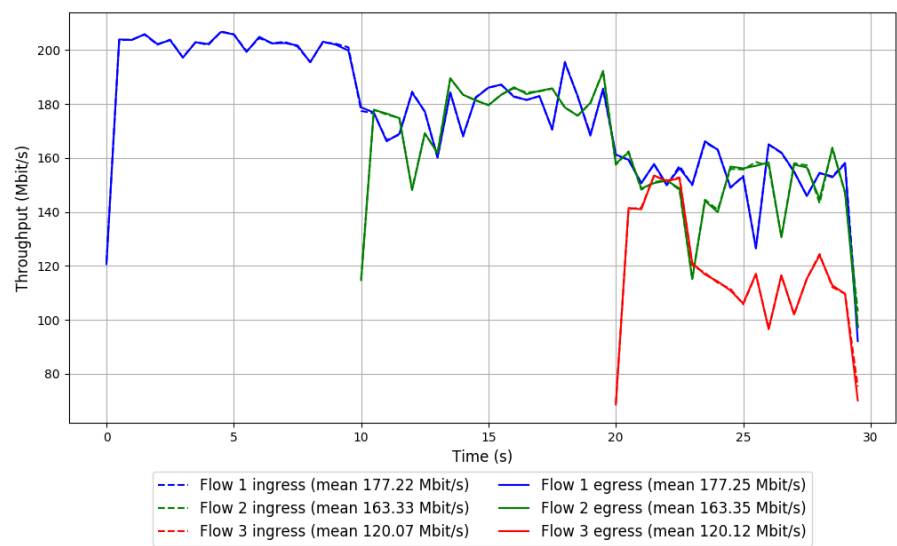
-- Flow 3:

Average throughput: 120.12 Mbit/s

95th percentile per-packet one-way delay: 1.443 ms

Loss rate: 0.22%

Run 2: Report of Indigo-1-32 — Data Link



Run 3: Statistics of Indigo-1-32

Start at: 2018-03-06 12:44:20

End at: 2018-03-06 12:44:50

Local clock offset: -4.756 ms

Remote clock offset: 5.65 ms

Below is generated by plot.py at 2018-03-06 23:55:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 332.06 Mbit/s

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

Loss rate: 0.10%

-- Flow 1:

Average throughput: 175.57 Mbit/s

95th percentile per-packet one-way delay: 1.114 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 163.60 Mbit/s

95th percentile per-packet one-way delay: 1.562 ms

Loss rate: 0.13%

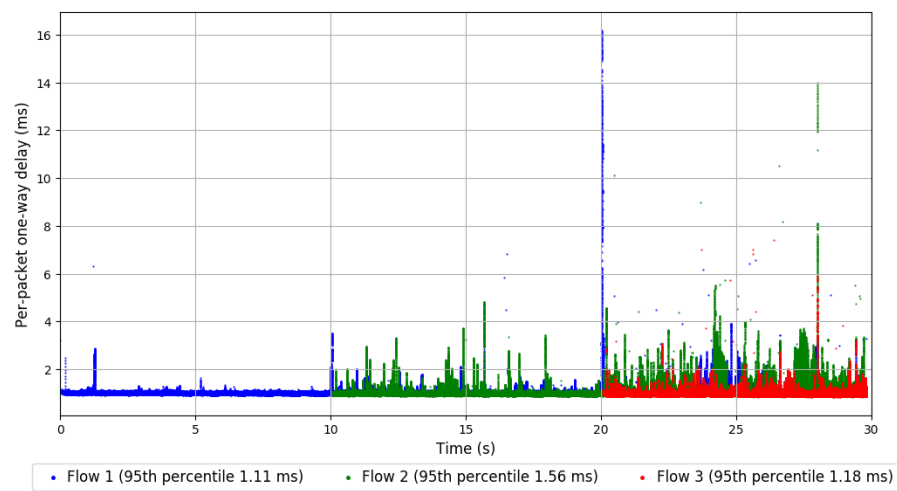
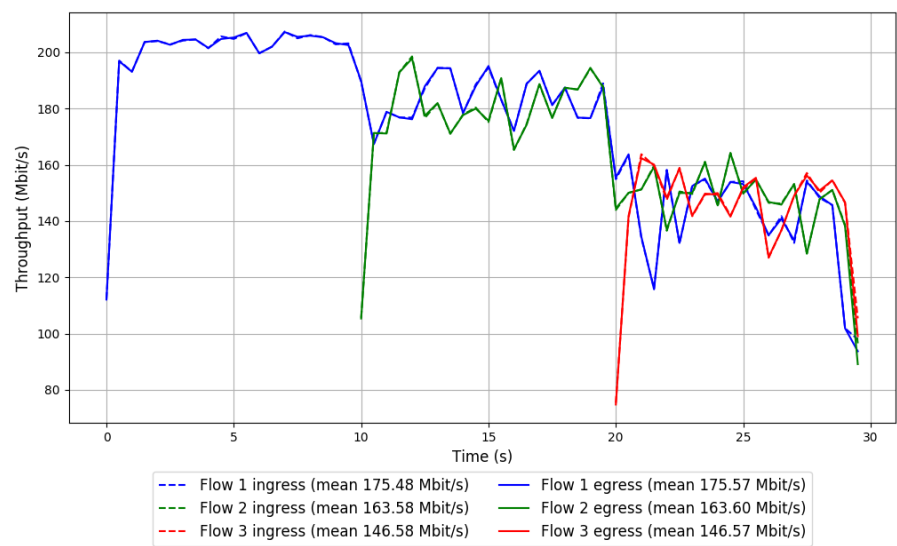
-- Flow 3:

Average throughput: 146.57 Mbit/s

95th percentile per-packet one-way delay: 1.184 ms

Loss rate: 0.22%

Run 3: Report of Indigo-1-32 — Data Link



Run 4: Statistics of Indigo-1-32

Start at: 2018-03-06 13:13:42

End at: 2018-03-06 13:14:12

Local clock offset: -4.667 ms

Remote clock offset: 3.832 ms

Below is generated by plot.py at 2018-03-06 23:55:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 333.41 Mbit/s

95th percentile per-packet one-way delay: 0.992 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 182.19 Mbit/s

95th percentile per-packet one-way delay: 0.992 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 164.26 Mbit/s

95th percentile per-packet one-way delay: 0.957 ms

Loss rate: 0.10%

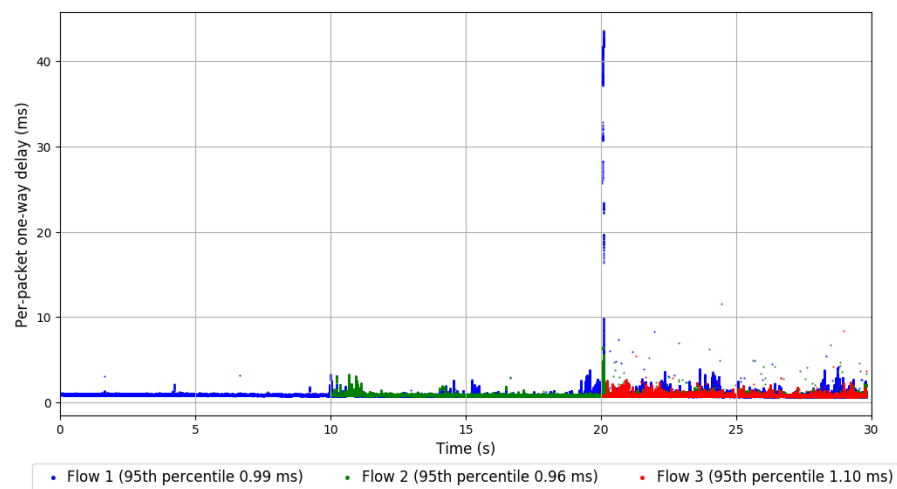
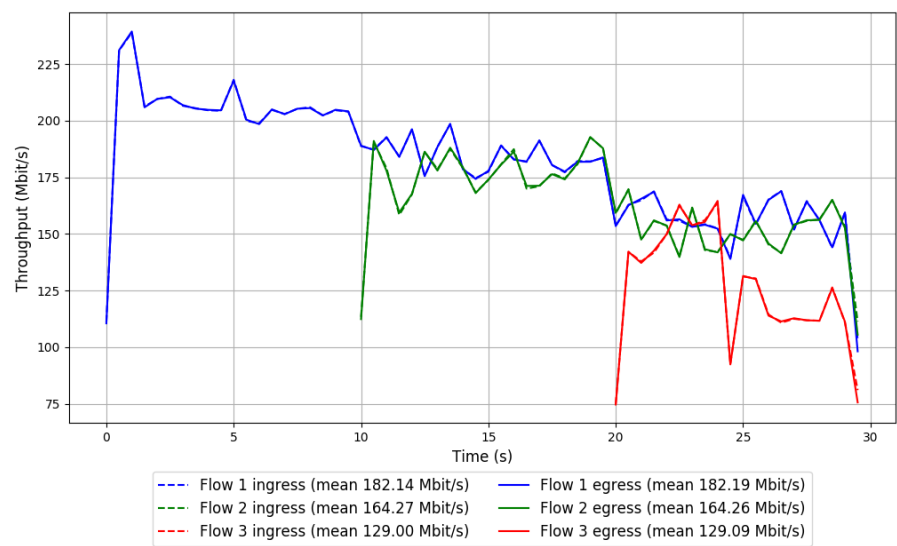
-- Flow 3:

Average throughput: 129.09 Mbit/s

95th percentile per-packet one-way delay: 1.105 ms

Loss rate: 0.22%

Run 4: Report of Indigo-1-32 — Data Link

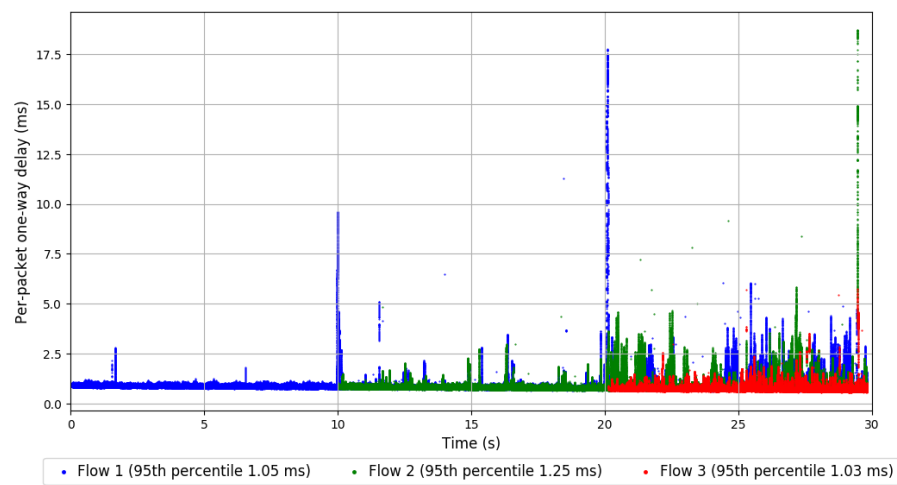
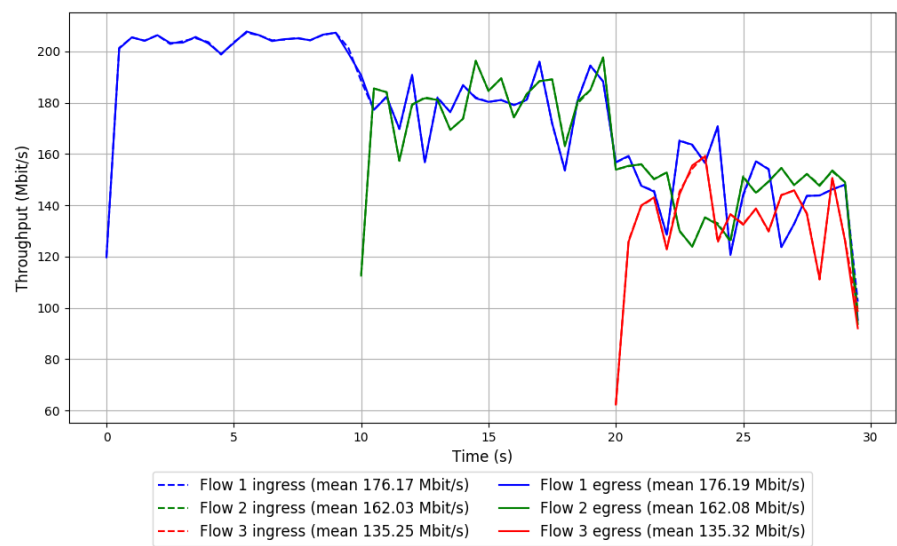


Run 5: Statistics of Indigo-1-32

Start at: 2018-03-06 13:42:51
End at: 2018-03-06 13:43:21
Local clock offset: -0.998 ms
Remote clock offset: -0.945 ms

Below is generated by plot.py at 2018-03-06 23:55:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 327.77 Mbit/s
95th percentile per-packet one-way delay: 1.105 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 176.19 Mbit/s
95th percentile per-packet one-way delay: 1.055 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 162.08 Mbit/s
95th percentile per-packet one-way delay: 1.254 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 135.32 Mbit/s
95th percentile per-packet one-way delay: 1.028 ms
Loss rate: 0.25%

Run 5: Report of Indigo-1-32 — Data Link



Run 6: Statistics of Indigo-1-32

Start at: 2018-03-06 14:12:26

End at: 2018-03-06 14:12:56

Local clock offset: 4.048 ms

Remote clock offset: 0.492 ms

Below is generated by plot.py at 2018-03-06 23:55:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 328.06 Mbit/s

95th percentile per-packet one-way delay: 1.350 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 175.54 Mbit/s

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

Loss rate: 0.06%

-- Flow 2:

Average throughput: 161.27 Mbit/s

95th percentile per-packet one-way delay: 1.750 ms

Loss rate: 0.12%

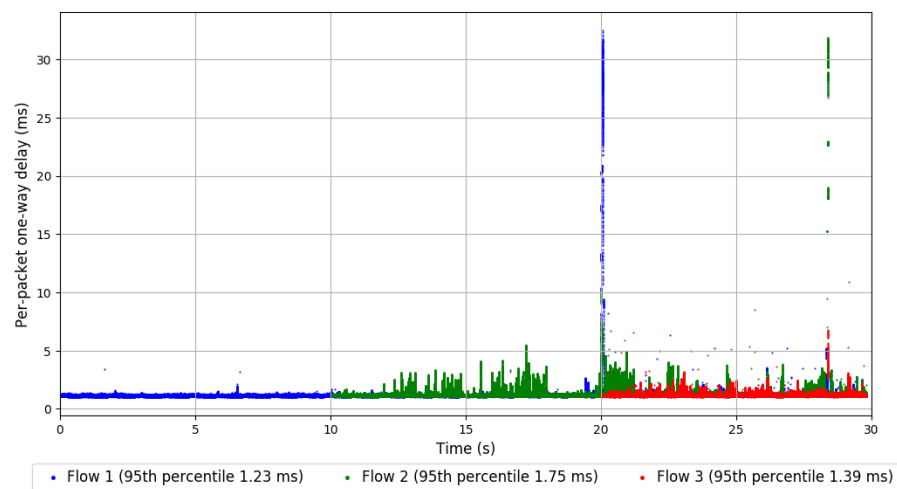
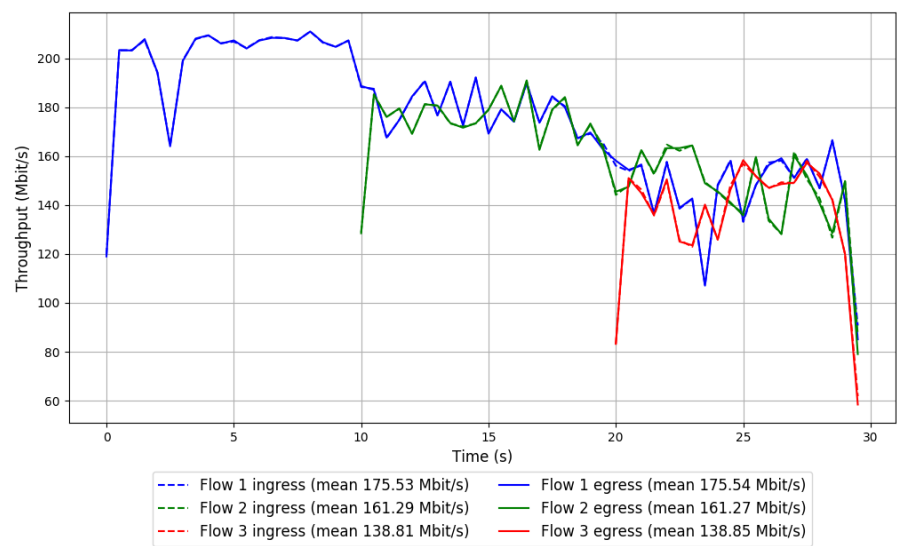
-- Flow 3:

Average throughput: 138.85 Mbit/s

95th percentile per-packet one-way delay: 1.394 ms

Loss rate: 0.13%

Run 6: Report of Indigo-1-32 — Data Link



Run 7: Statistics of Indigo-1-32

Start at: 2018-03-06 14:41:51

End at: 2018-03-06 14:42:21

Local clock offset: 5.248 ms

Remote clock offset: 1.95 ms

Below is generated by plot.py at 2018-03-06 23:55:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 327.92 Mbit/s

95th percentile per-packet one-way delay: 1.358 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 172.32 Mbit/s

95th percentile per-packet one-way delay: 1.243 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 164.39 Mbit/s

95th percentile per-packet one-way delay: 1.533 ms

Loss rate: 0.12%

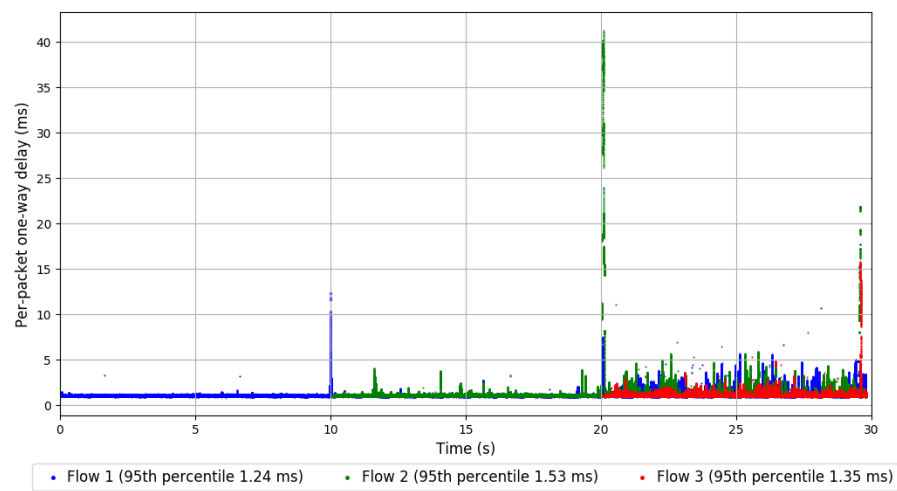
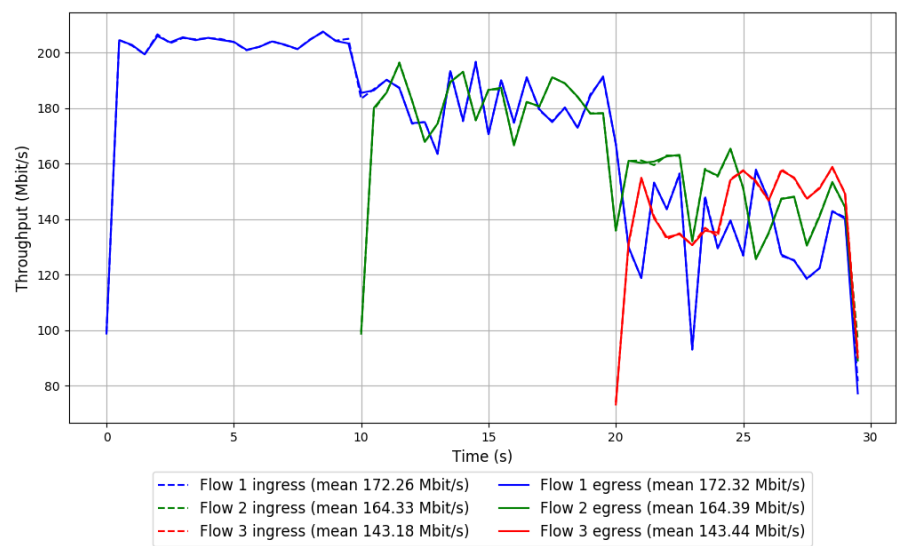
-- Flow 3:

Average throughput: 143.44 Mbit/s

95th percentile per-packet one-way delay: 1.351 ms

Loss rate: 0.07%

Run 7: Report of Indigo-1-32 — Data Link



Run 8: Statistics of Indigo-1-32

Start at: 2018-03-06 15:16:28

End at: 2018-03-06 15:16:58

Local clock offset: 0.855 ms

Remote clock offset: 2.336 ms

Below is generated by plot.py at 2018-03-06 23:55:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 318.95 Mbit/s

95th percentile per-packet one-way delay: 1.298 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 177.52 Mbit/s

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

Loss rate: 0.07%

-- Flow 2:

Average throughput: 163.69 Mbit/s

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

Loss rate: 0.09%

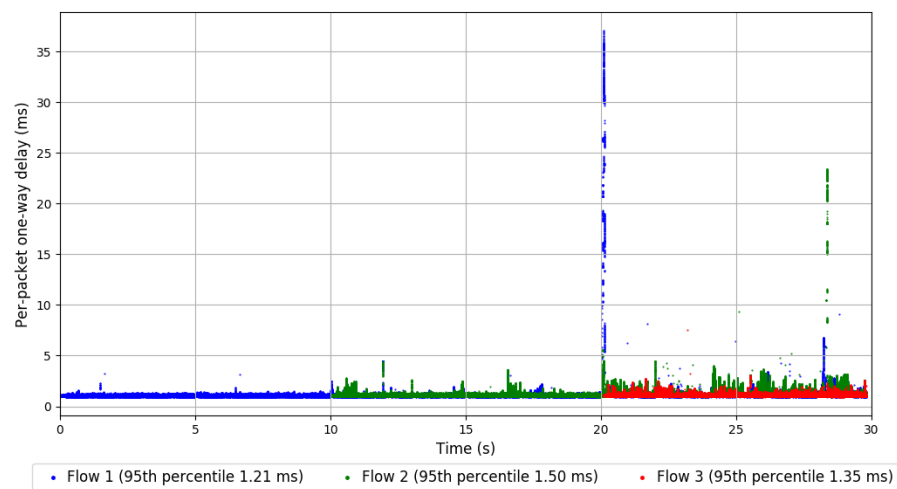
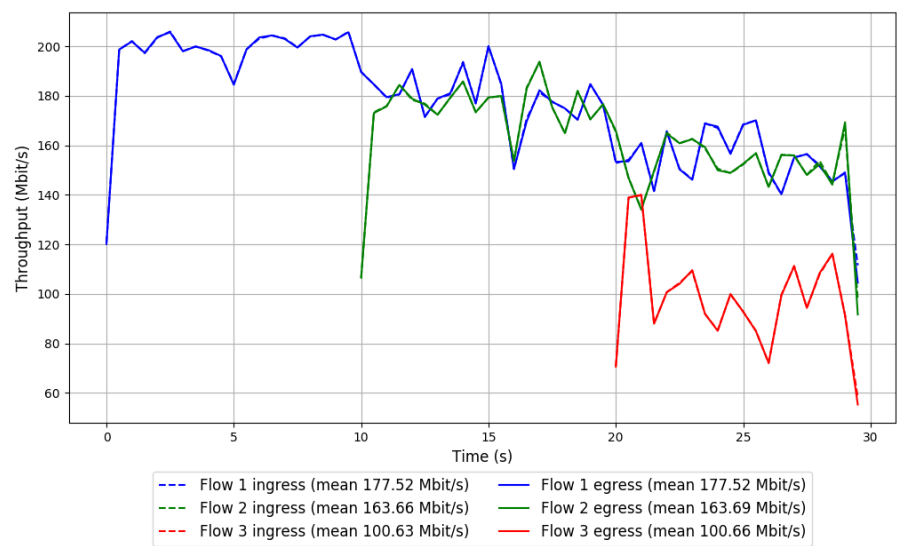
-- Flow 3:

Average throughput: 100.66 Mbit/s

95th percentile per-packet one-way delay: 1.355 ms

Loss rate: 0.16%

Run 8: Report of Indigo-1-32 — Data Link



Run 9: Statistics of Indigo-1-32

Start at: 2018-03-06 15:45:26

End at: 2018-03-06 15:45:56

Local clock offset: 0.689 ms

Remote clock offset: 2.311 ms

Below is generated by plot.py at 2018-03-06 23:55:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 330.40 Mbit/s

95th percentile per-packet one-way delay: 1.412 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 175.77 Mbit/s

95th percentile per-packet one-way delay: 1.345 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 164.45 Mbit/s

95th percentile per-packet one-way delay: 1.546 ms

Loss rate: 0.11%

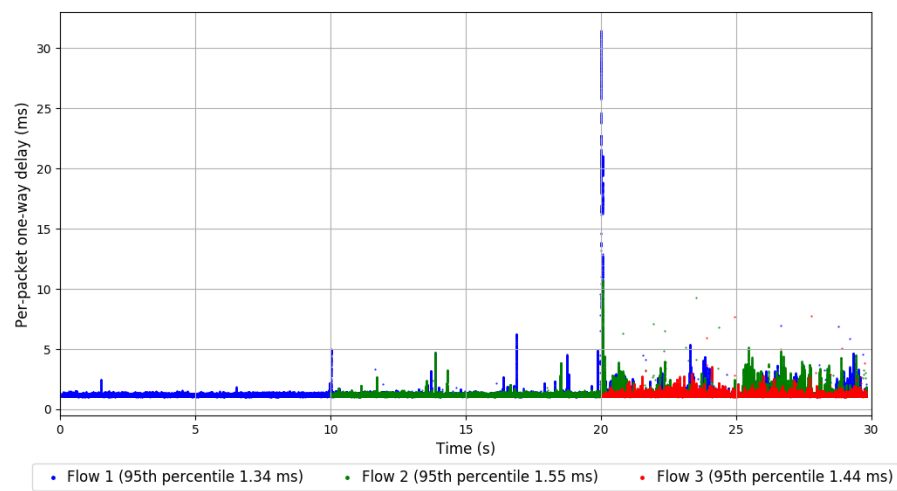
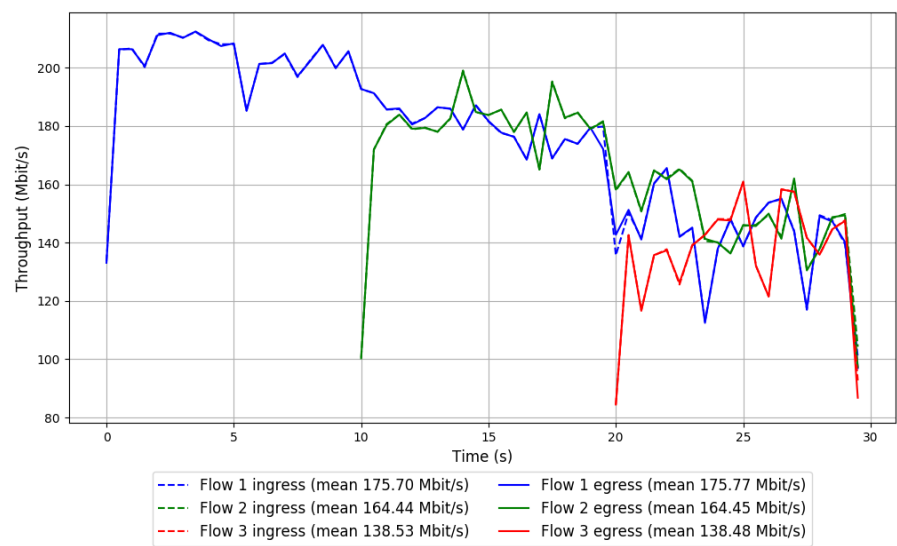
-- Flow 3:

Average throughput: 138.48 Mbit/s

95th percentile per-packet one-way delay: 1.435 ms

Loss rate: 0.24%

Run 9: Report of Indigo-1-32 — Data Link



Run 10: Statistics of Indigo-1-32

Start at: 2018-03-06 16:14:37

End at: 2018-03-06 16:15:07

Local clock offset: -1.529 ms

Remote clock offset: 1.843 ms

Below is generated by plot.py at 2018-03-06 23:55:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 330.76 Mbit/s

95th percentile per-packet one-way delay: 1.307 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 177.04 Mbit/s

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

Loss rate: 0.08%

-- Flow 2:

Average throughput: 162.26 Mbit/s

95th percentile per-packet one-way delay: 1.430 ms

Loss rate: 0.11%

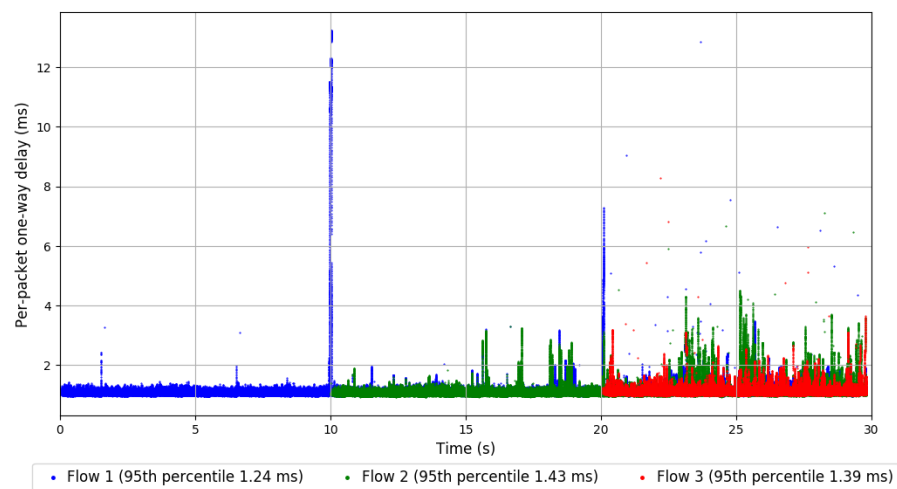
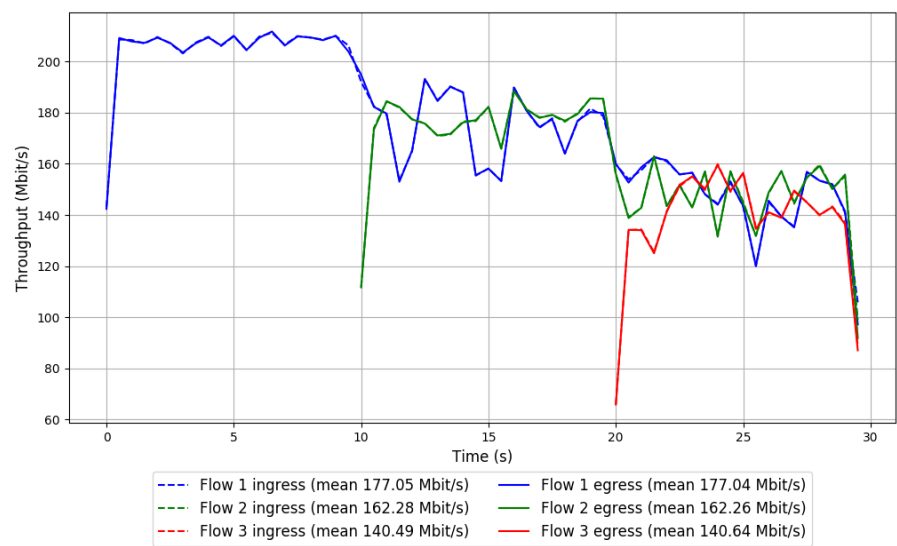
-- Flow 3:

Average throughput: 140.64 Mbit/s

95th percentile per-packet one-way delay: 1.392 ms

Loss rate: 0.09%

Run 10: Report of Indigo-1-32 — Data Link



Run 1: Statistics of Vivace-latency

Start at: 2018-03-06 11:53:10

End at: 2018-03-06 11:53:40

Local clock offset: 5.844 ms

Remote clock offset: 4.688 ms

Below is generated by plot.py at 2018-03-06 23:55:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 405.11 Mbit/s

95th percentile per-packet one-way delay: 64.991 ms

Loss rate: 0.42%

-- Flow 1:

Average throughput: 306.83 Mbit/s

95th percentile per-packet one-way delay: 103.592 ms

Loss rate: 0.52%

-- Flow 2:

Average throughput: 108.76 Mbit/s

95th percentile per-packet one-way delay: 1.830 ms

Loss rate: 0.07%

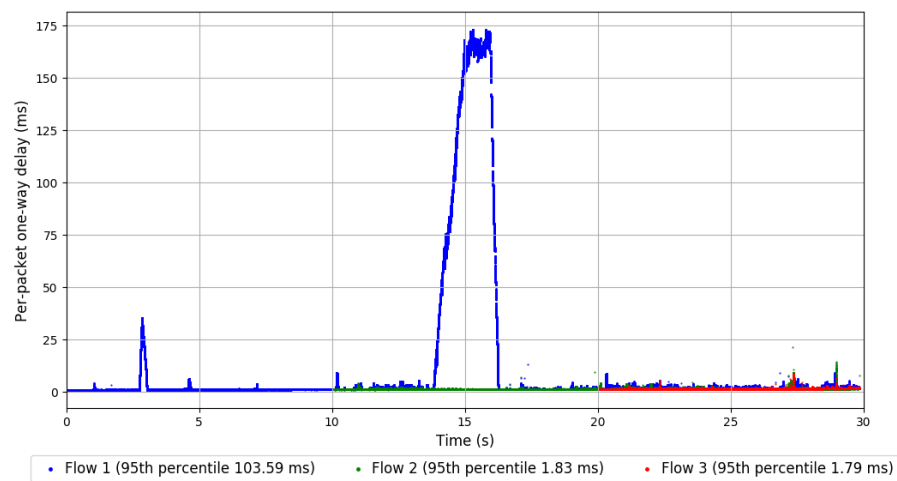
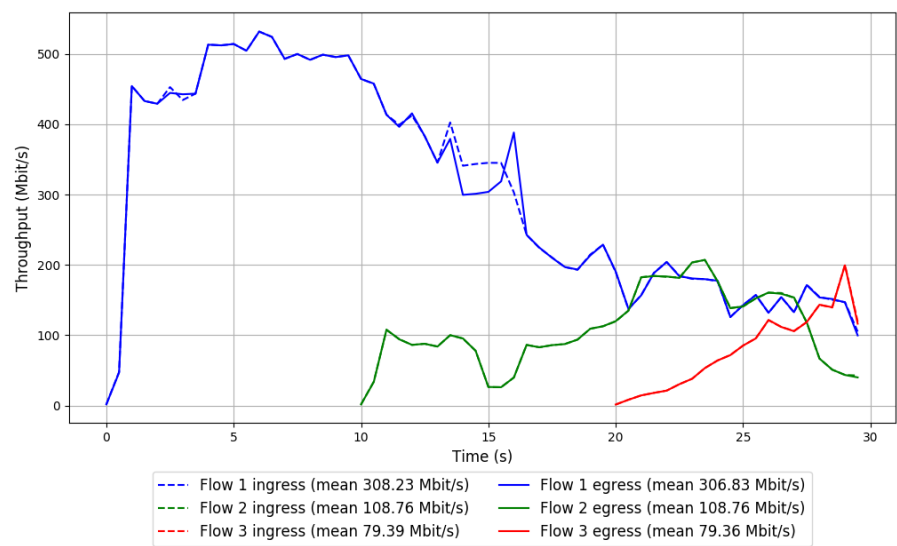
-- Flow 3:

Average throughput: 79.36 Mbit/s

95th percentile per-packet one-way delay: 1.788 ms

Loss rate: 0.22%

Run 1: Report of Vivace-latency — Data Link



Run 2: Statistics of Vivace-latency

Start at: 2018-03-06 12:22:54

End at: 2018-03-06 12:23:24

Local clock offset: -4.89 ms

Remote clock offset: 6.167 ms

Below is generated by plot.py at 2018-03-06 23:55:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 377.00 Mbit/s

95th percentile per-packet one-way delay: 67.389 ms

Loss rate: 0.39%

-- Flow 1:

Average throughput: 224.16 Mbit/s

95th percentile per-packet one-way delay: 107.446 ms

Loss rate: 0.58%

-- Flow 2:

Average throughput: 199.41 Mbit/s

95th percentile per-packet one-way delay: 1.713 ms

Loss rate: 0.07%

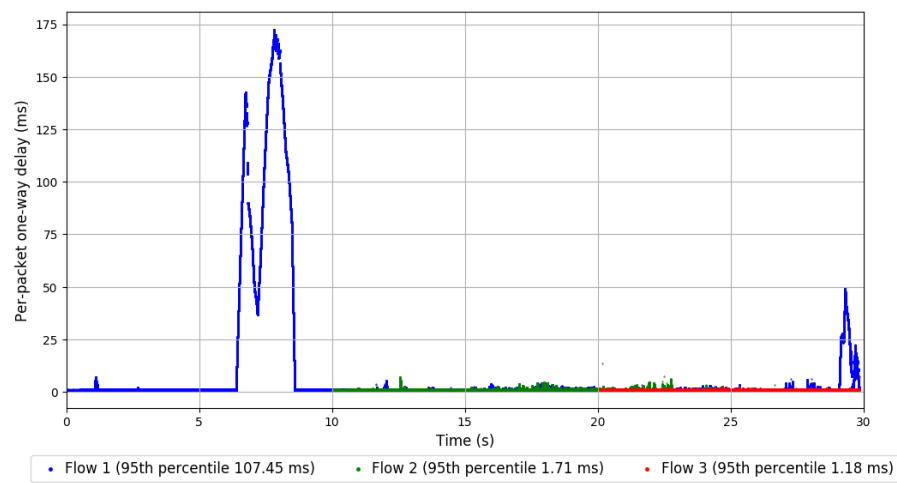
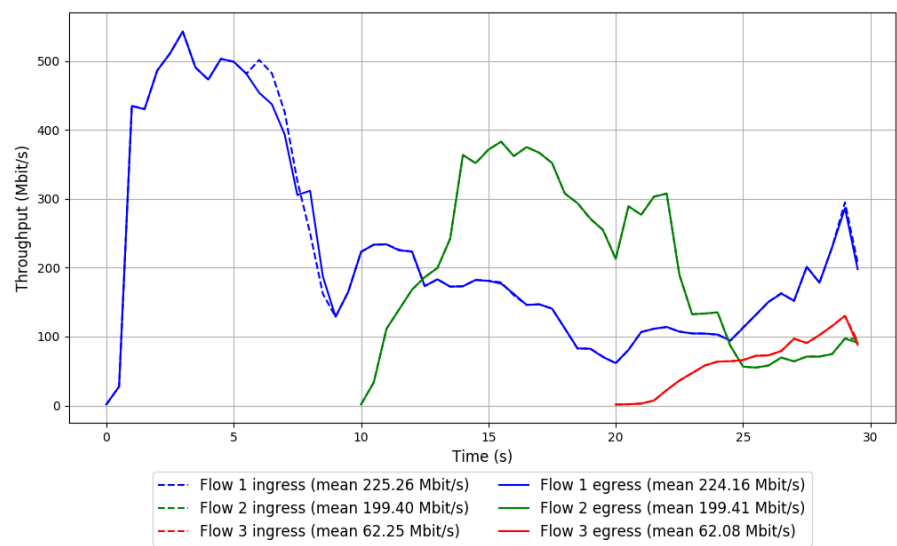
-- Flow 3:

Average throughput: 62.08 Mbit/s

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

Loss rate: 0.42%

Run 2: Report of Vivace-latency — Data Link



Run 3: Statistics of Vivace-latency

Start at: 2018-03-06 12:52:36

End at: 2018-03-06 12:53:06

Local clock offset: -4.913 ms

Remote clock offset: 4.89 ms

Below is generated by plot.py at 2018-03-06 23:56:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 411.70 Mbit/s

95th percentile per-packet one-way delay: 80.193 ms

Loss rate: 0.80%

-- Flow 1:

Average throughput: 300.93 Mbit/s

95th percentile per-packet one-way delay: 110.266 ms

Loss rate: 1.03%

-- Flow 2:

Average throughput: 116.01 Mbit/s

95th percentile per-packet one-way delay: 2.691 ms

Loss rate: 0.12%

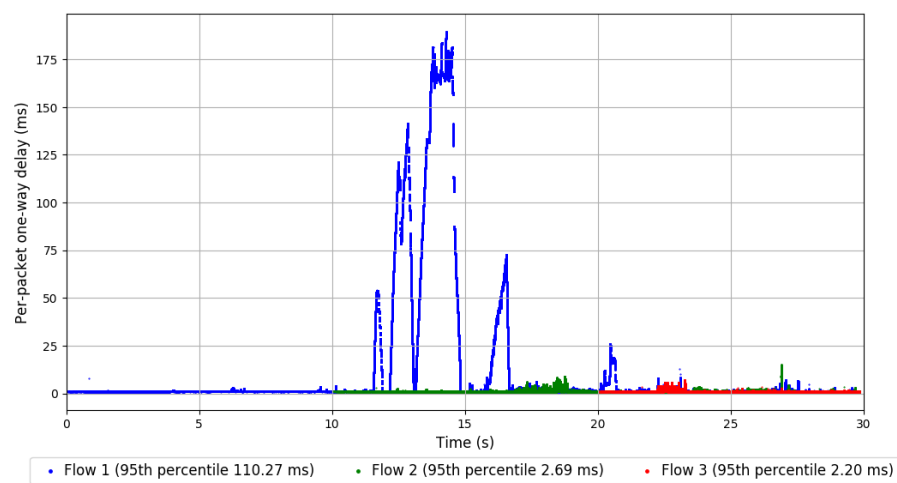
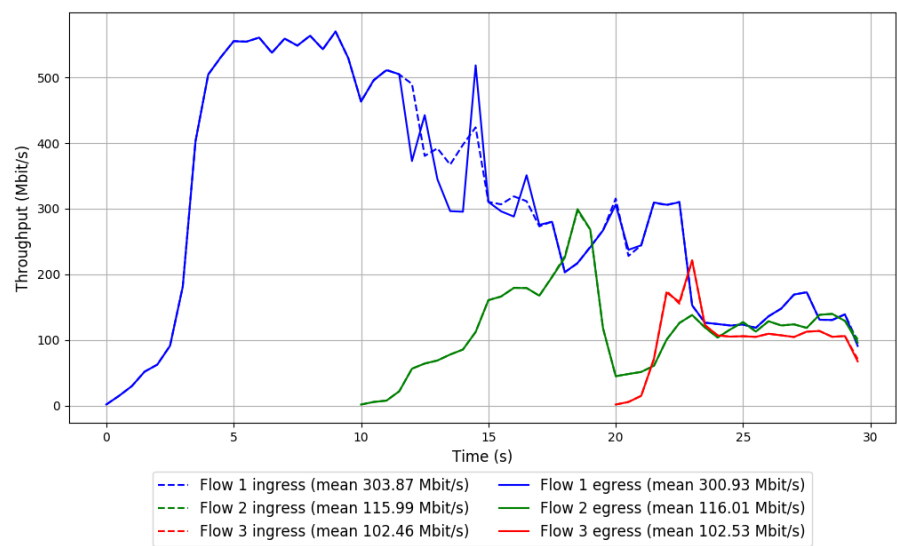
-- Flow 3:

Average throughput: 102.53 Mbit/s

95th percentile per-packet one-way delay: 2.199 ms

Loss rate: 0.19%

Run 3: Report of Vivace-latency — Data Link



Run 4: Statistics of Vivace-latency

Start at: 2018-03-06 13:21:52

End at: 2018-03-06 13:22:22

Local clock offset: -4.695 ms

Remote clock offset: 1.341 ms

Below is generated by plot.py at 2018-03-06 23:56:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 354.44 Mbit/s

95th percentile per-packet one-way delay: 21.614 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 264.44 Mbit/s

95th percentile per-packet one-way delay: 49.167 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 105.03 Mbit/s

95th percentile per-packet one-way delay: 1.124 ms

Loss rate: 0.12%

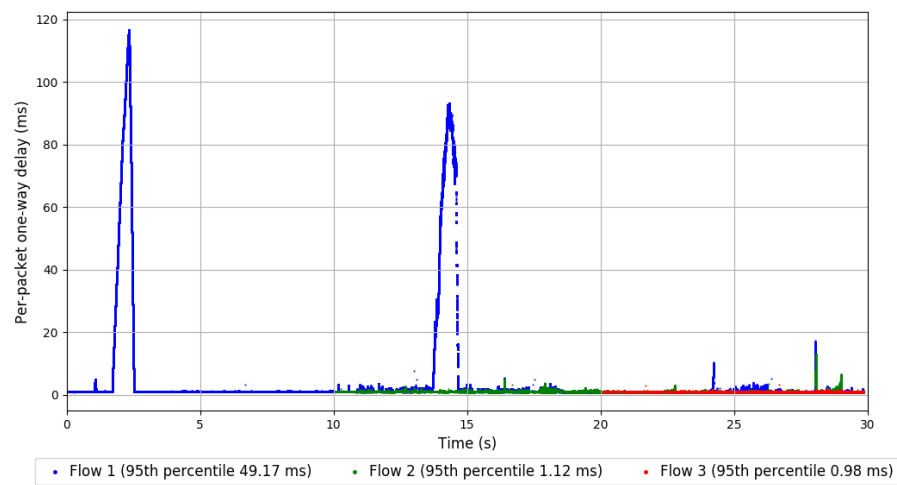
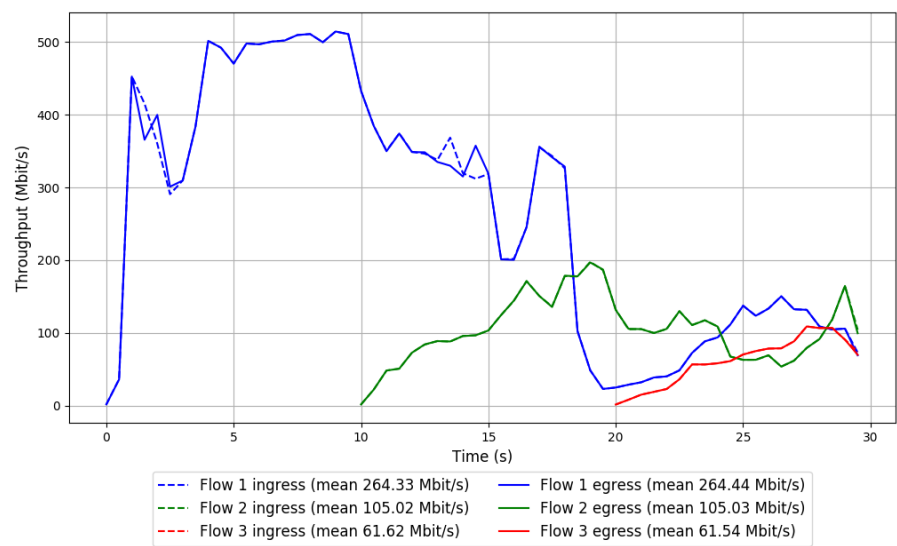
-- Flow 3:

Average throughput: 61.54 Mbit/s

95th percentile per-packet one-way delay: 0.976 ms

Loss rate: 0.37%

Run 4: Report of Vivace-latency — Data Link

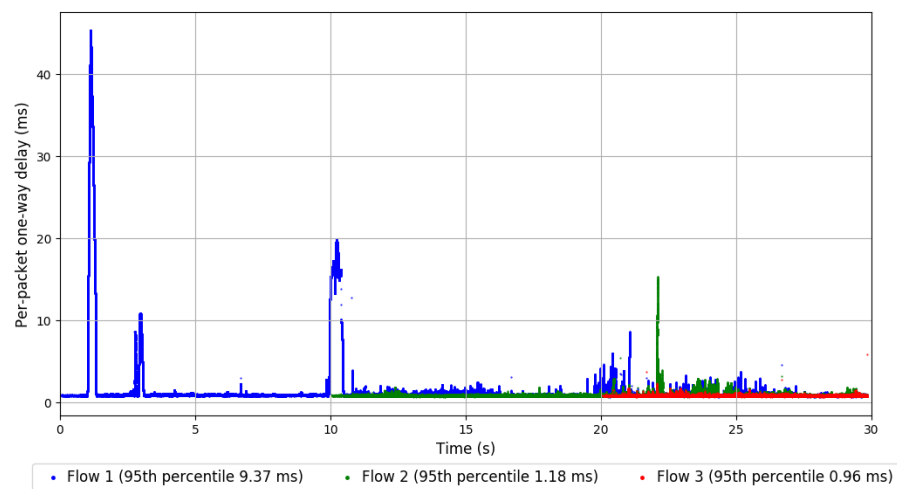
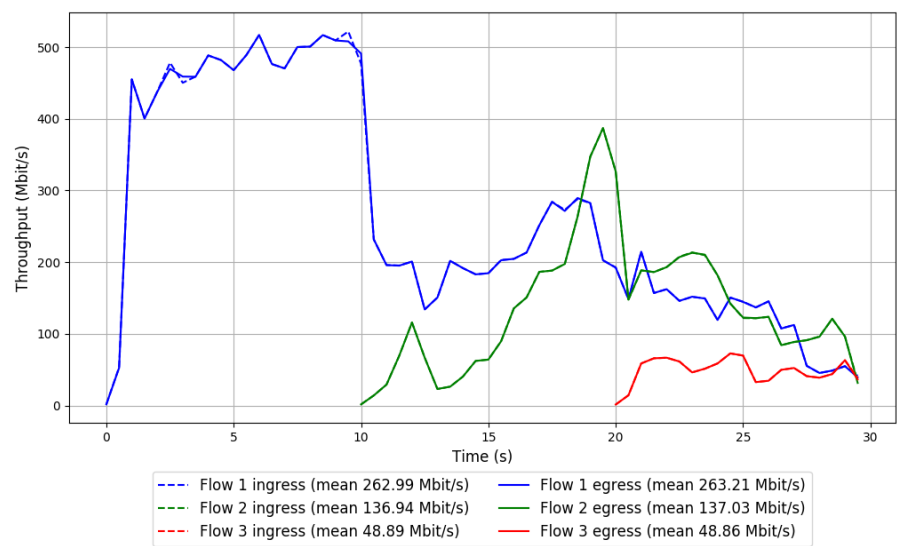


Run 5: Statistics of Vivace-latency

Start at: 2018-03-06 13:51:25
End at: 2018-03-06 13:51:55
Local clock offset: 1.315 ms
Remote clock offset: -0.225 ms

Below is generated by plot.py at 2018-03-06 23:56:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 370.20 Mbit/s
95th percentile per-packet one-way delay: 3.063 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 263.21 Mbit/s
95th percentile per-packet one-way delay: 9.370 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 137.03 Mbit/s
95th percentile per-packet one-way delay: 1.183 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 48.86 Mbit/s
95th percentile per-packet one-way delay: 0.961 ms
Loss rate: 0.21%

Run 5: Report of Vivace-latency — Data Link



Run 6: Statistics of Vivace-latency

Start at: 2018-03-06 14:20:48

End at: 2018-03-06 14:21:18

Local clock offset: 3.892 ms

Remote clock offset: 0.506 ms

Below is generated by plot.py at 2018-03-06 23:57:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 427.20 Mbit/s

95th percentile per-packet one-way delay: 3.087 ms

Loss rate: 0.27%

-- Flow 1:

Average throughput: 246.53 Mbit/s

95th percentile per-packet one-way delay: 11.128 ms

Loss rate: 0.37%

-- Flow 2:

Average throughput: 234.98 Mbit/s

95th percentile per-packet one-way delay: 2.640 ms

Loss rate: 0.12%

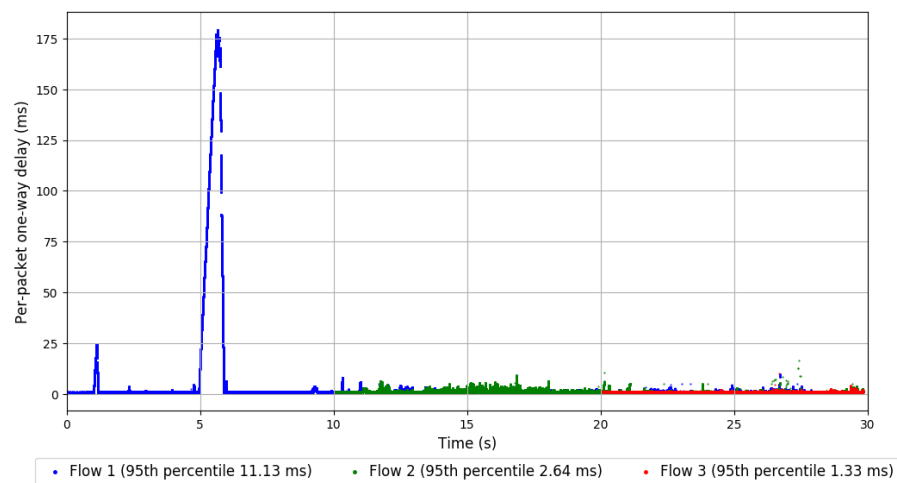
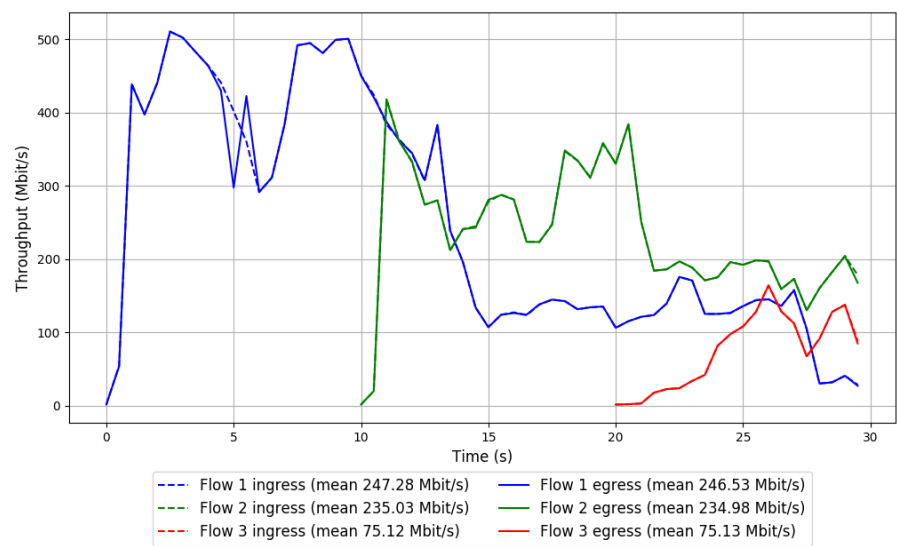
-- Flow 3:

Average throughput: 75.13 Mbit/s

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

Loss rate: 0.28%

Run 6: Report of Vivace-latency — Data Link



Run 7: Statistics of Vivace-latency

Start at: 2018-03-06 14:50:23

End at: 2018-03-06 14:50:53

Local clock offset: 2.963 ms

Remote clock offset: 2.12 ms

Below is generated by plot.py at 2018-03-06 23:57:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 361.89 Mbit/s

95th percentile per-packet one-way delay: 80.257 ms

Loss rate: 0.98%

-- Flow 1:

Average throughput: 260.31 Mbit/s

95th percentile per-packet one-way delay: 110.501 ms

Loss rate: 1.33%

-- Flow 2:

Average throughput: 118.06 Mbit/s

95th percentile per-packet one-way delay: 1.449 ms

Loss rate: 0.03%

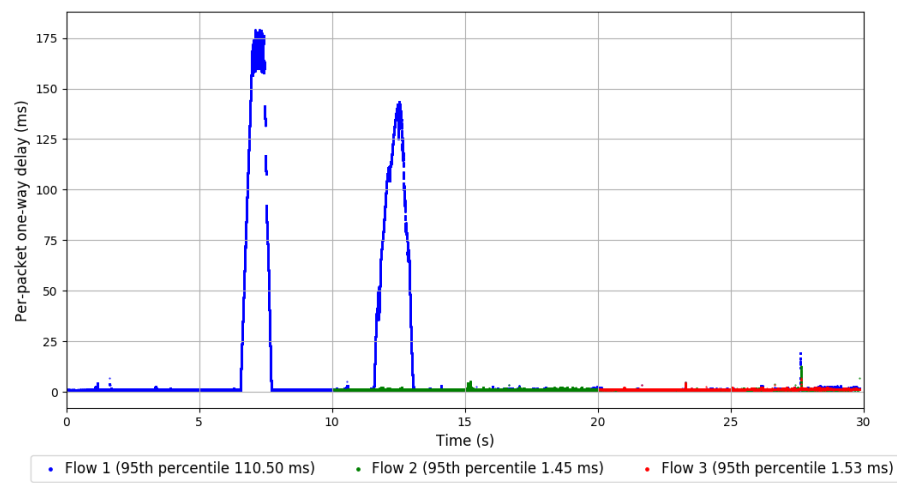
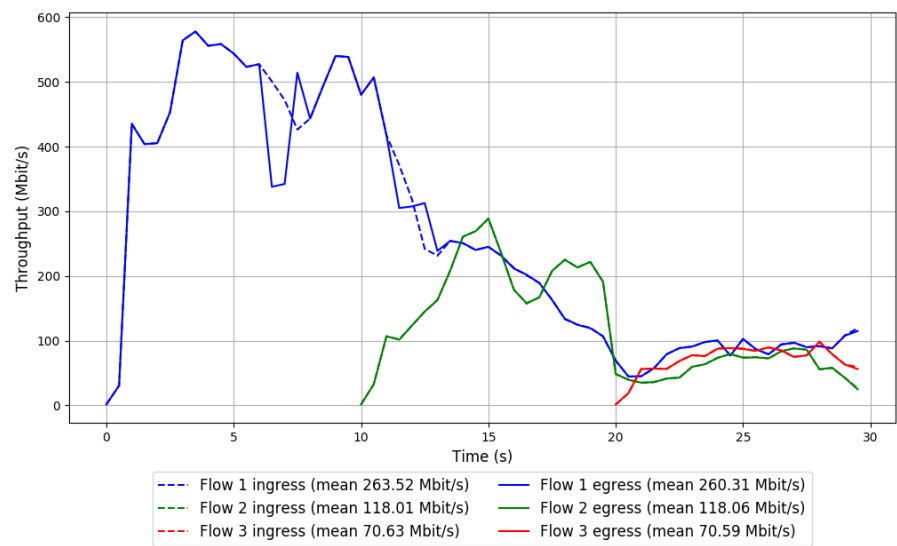
-- Flow 3:

Average throughput: 70.59 Mbit/s

95th percentile per-packet one-way delay: 1.533 ms

Loss rate: 0.25%

Run 7: Report of Vivace-latency — Data Link



Run 8: Statistics of Vivace-latency

Start at: 2018-03-06 15:24:43

End at: 2018-03-06 15:25:13

Local clock offset: 0.716 ms

Remote clock offset: 2.393 ms

Below is generated by plot.py at 2018-03-06 23:58:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 383.67 Mbit/s

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

Loss rate: 1.20%

-- Flow 1:

Average throughput: 244.16 Mbit/s

95th percentile per-packet one-way delay: 124.690 ms

Loss rate: 1.79%

-- Flow 2:

Average throughput: 145.31 Mbit/s

95th percentile per-packet one-way delay: 1.475 ms

Loss rate: 0.07%

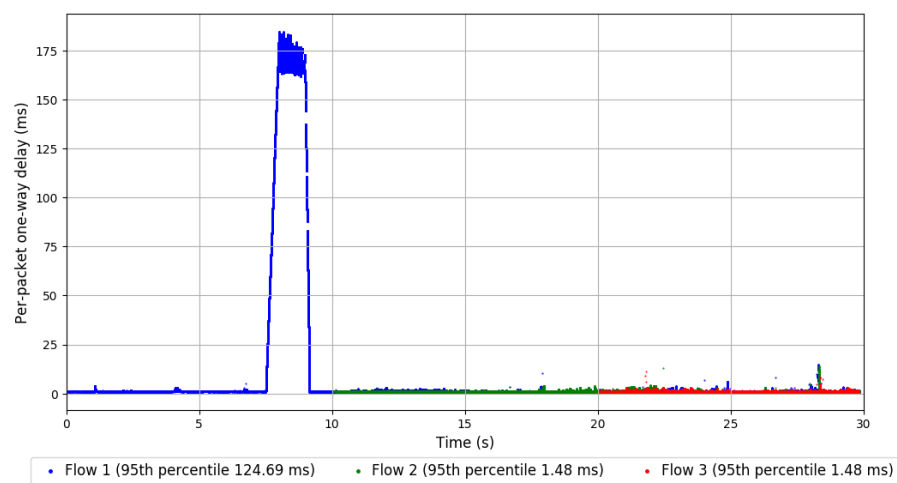
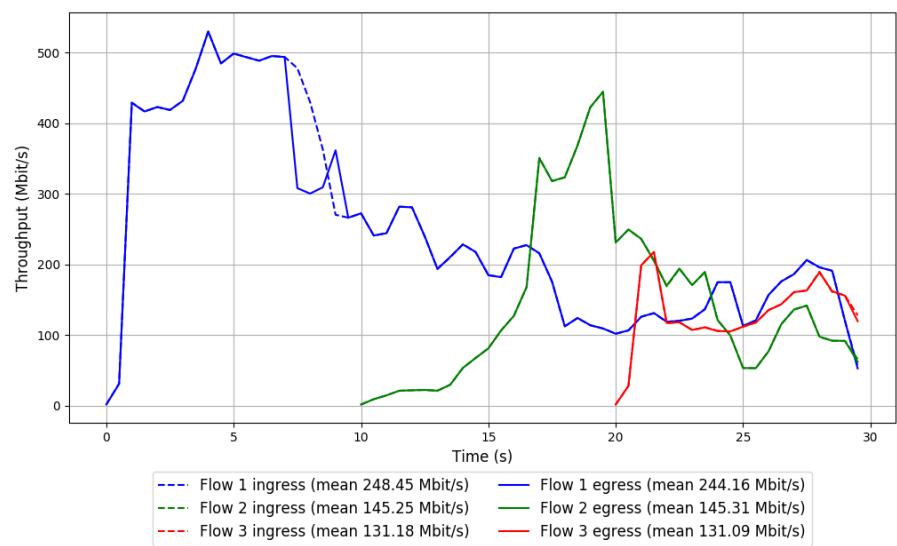
-- Flow 3:

Average throughput: 131.09 Mbit/s

95th percentile per-packet one-way delay: 1.480 ms

Loss rate: 0.35%

Run 8: Report of Vivace-latency — Data Link



Run 9: Statistics of Vivace-latency

Start at: 2018-03-06 15:53:51

End at: 2018-03-06 15:54:21

Local clock offset: 0.438 ms

Remote clock offset: 2.338 ms

Below is generated by plot.py at 2018-03-07 00:00:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 417.29 Mbit/s

95th percentile per-packet one-way delay: 44.067 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 324.58 Mbit/s

95th percentile per-packet one-way delay: 57.561 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 97.22 Mbit/s

95th percentile per-packet one-way delay: 1.397 ms

Loss rate: 0.15%

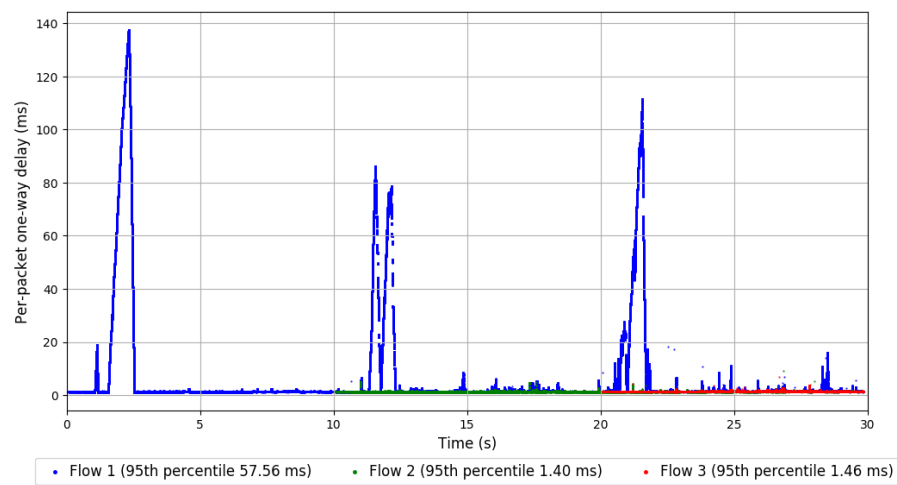
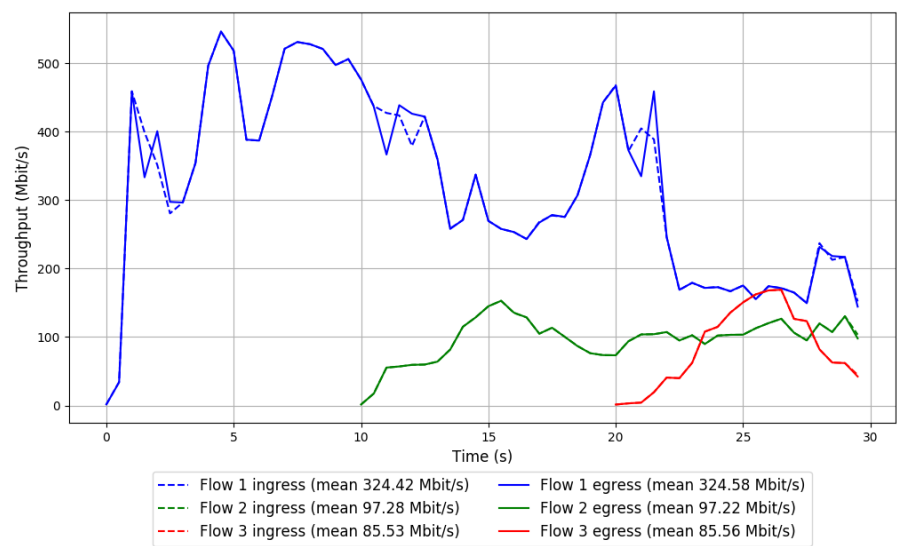
-- Flow 3:

Average throughput: 85.56 Mbit/s

95th percentile per-packet one-way delay: 1.464 ms

Loss rate: 0.16%

Run 9: Report of Vivace-latency — Data Link



Run 10: Statistics of Vivace-latency

Start at: 2018-03-06 16:22:48

End at: 2018-03-06 16:23:18

Local clock offset: -1.88 ms

Remote clock offset: 1.668 ms

Below is generated by plot.py at 2018-03-07 00:01:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 431.91 Mbit/s

95th percentile per-packet one-way delay: 2.091 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 280.87 Mbit/s

95th percentile per-packet one-way delay: 2.190 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 203.95 Mbit/s

95th percentile per-packet one-way delay: 2.043 ms

Loss rate: 0.03%

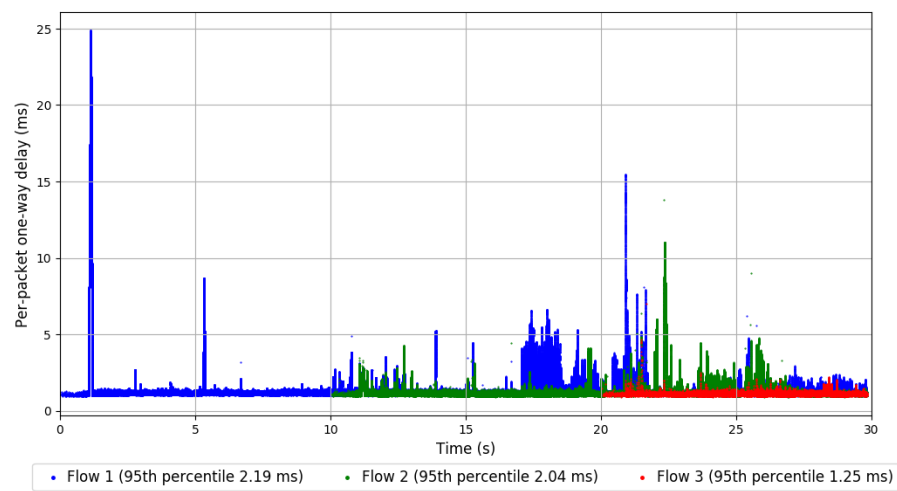
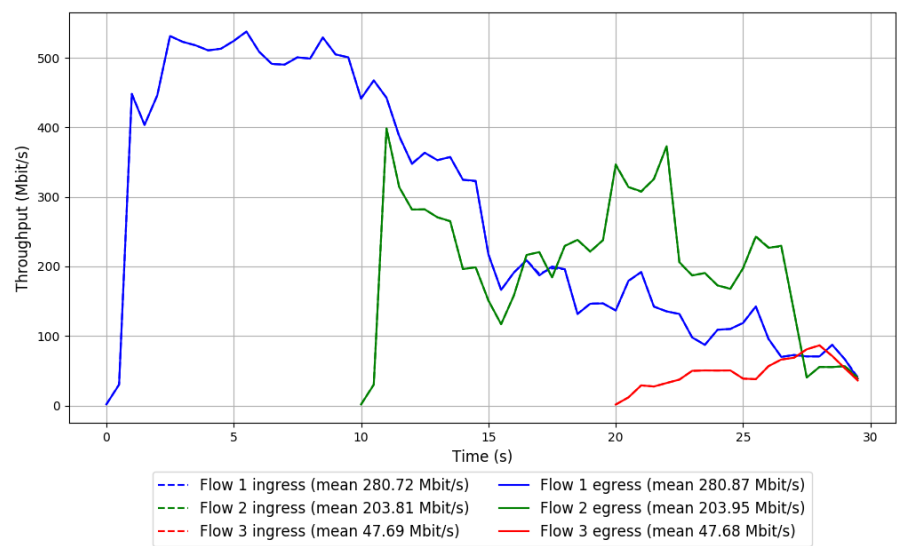
-- Flow 3:

Average throughput: 47.68 Mbit/s

95th percentile per-packet one-way delay: 1.250 ms

Loss rate: 0.25%

Run 10: Report of Vivace-latency — Data Link



Run 1: Statistics of Vivace-loss

Start at: 2018-03-06 11:48:23

End at: 2018-03-06 11:48:53

Local clock offset: 5.179 ms

Remote clock offset: 4.355 ms

Below is generated by plot.py at 2018-03-07 00:02:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 447.39 Mbit/s

95th percentile per-packet one-way delay: 98.979 ms

Loss rate: 3.74%

-- Flow 1:

Average throughput: 281.77 Mbit/s

95th percentile per-packet one-way delay: 159.010 ms

Loss rate: 5.73%

-- Flow 2:

Average throughput: 163.89 Mbit/s

95th percentile per-packet one-way delay: 6.927 ms

Loss rate: 0.15%

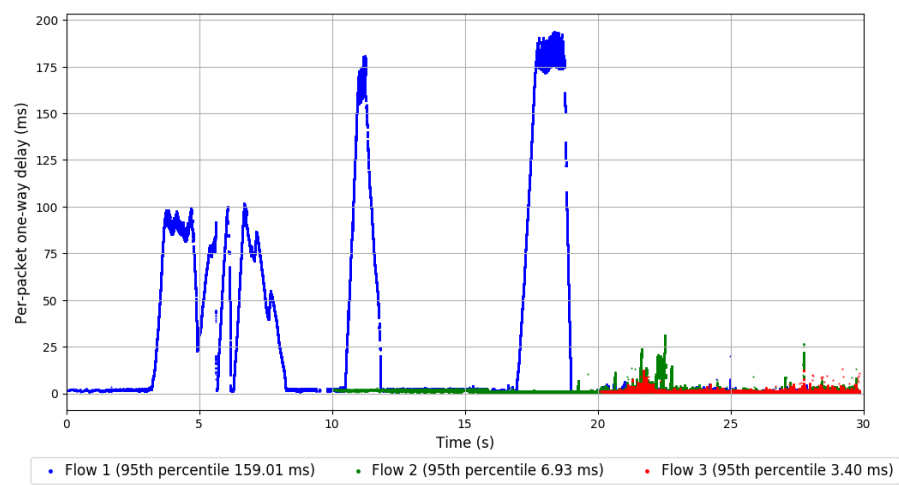
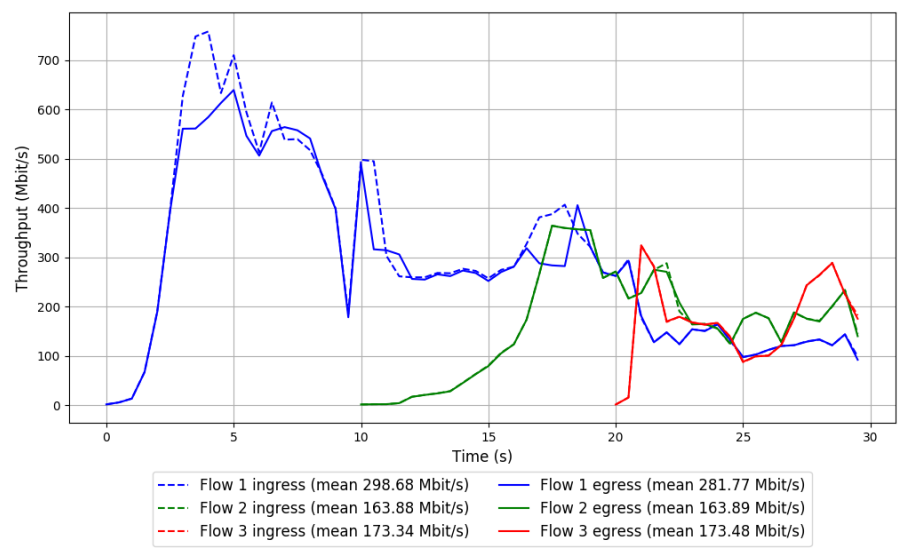
-- Flow 3:

Average throughput: 173.48 Mbit/s

95th percentile per-packet one-way delay: 3.395 ms

Loss rate: 0.20%

Run 1: Report of Vivace-loss — Data Link



Run 2: Statistics of Vivace-loss

Start at: 2018-03-06 12:18:11

End at: 2018-03-06 12:18:41

Local clock offset: -4.451 ms

Remote clock offset: 5.936 ms

Below is generated by plot.py at 2018-03-07 00:03:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 499.03 Mbit/s

95th percentile per-packet one-way delay: 138.993 ms

Loss rate: 3.64%

-- Flow 1:

Average throughput: 320.33 Mbit/s

95th percentile per-packet one-way delay: 142.326 ms

Loss rate: 5.49%

-- Flow 2:

Average throughput: 194.33 Mbit/s

95th percentile per-packet one-way delay: 7.378 ms

Loss rate: 0.10%

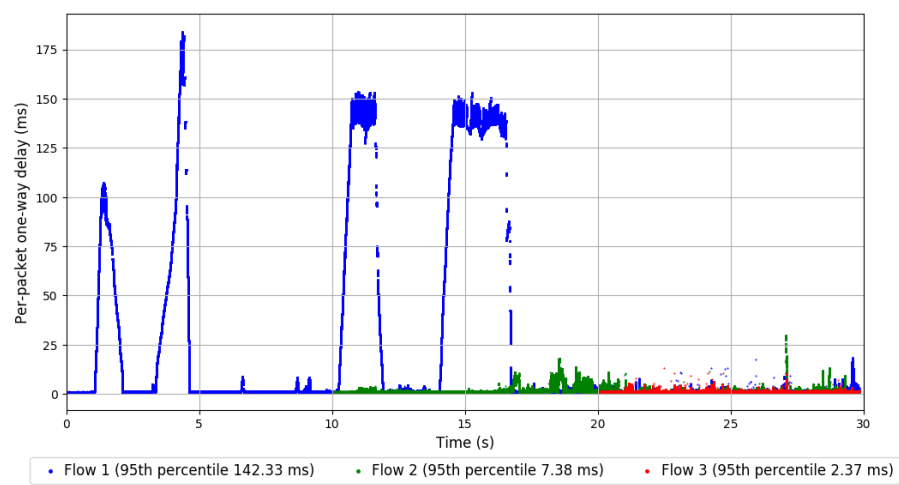
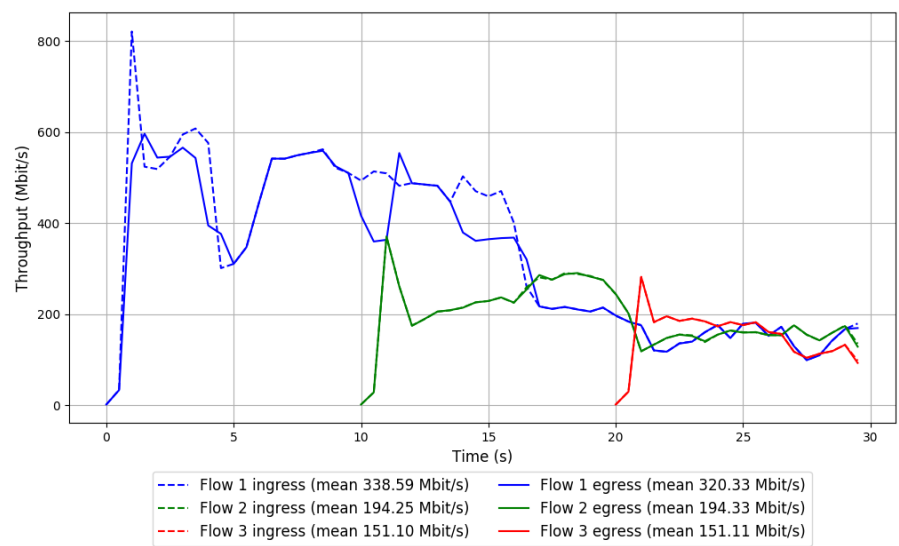
-- Flow 3:

Average throughput: 151.11 Mbit/s

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

Loss rate: 0.18%

Run 2: Report of Vivace-loss — Data Link



Run 3: Statistics of Vivace-loss

Start at: 2018-03-06 12:47:46

End at: 2018-03-06 12:48:16

Local clock offset: -4.852 ms

Remote clock offset: 5.204 ms

Below is generated by plot.py at 2018-03-07 00:04:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 514.65 Mbit/s

95th percentile per-packet one-way delay: 164.830 ms

Loss rate: 2.70%

-- Flow 1:

Average throughput: 299.43 Mbit/s

95th percentile per-packet one-way delay: 161.977 ms

Loss rate: 3.43%

-- Flow 2:

Average throughput: 232.32 Mbit/s

95th percentile per-packet one-way delay: 174.949 ms

Loss rate: 2.23%

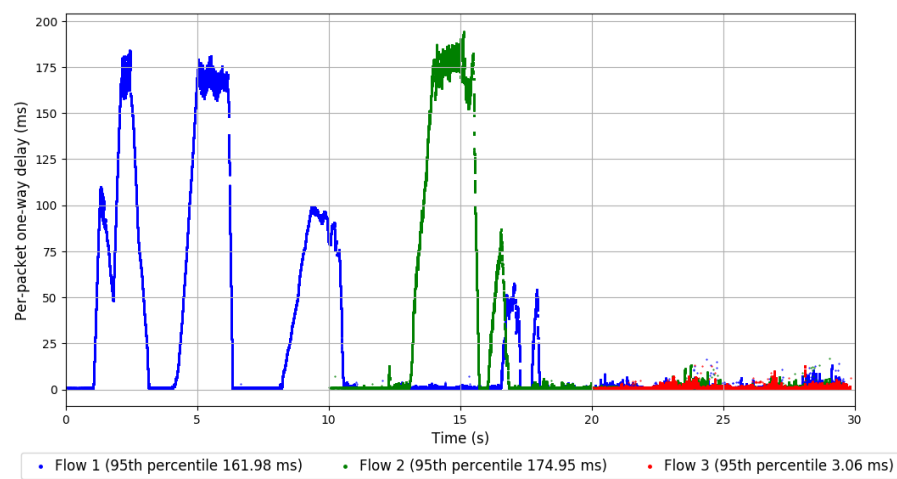
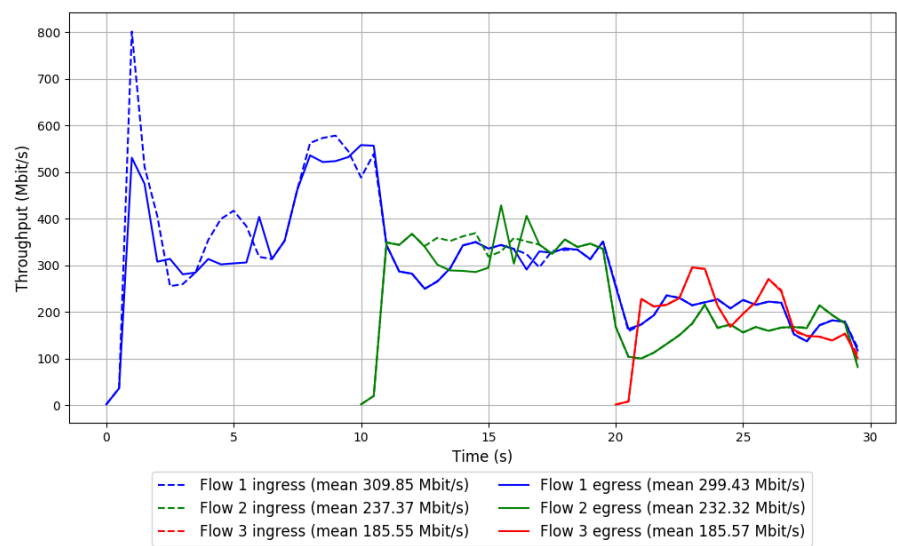
-- Flow 3:

Average throughput: 185.57 Mbit/s

95th percentile per-packet one-way delay: 3.061 ms

Loss rate: 0.22%

Run 3: Report of Vivace-loss — Data Link



Run 4: Statistics of Vivace-loss

Start at: 2018-03-06 13:17:09

End at: 2018-03-06 13:17:39

Local clock offset: -4.743 ms

Remote clock offset: 2.5 ms

Below is generated by plot.py at 2018-03-07 00:04:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 415.20 Mbit/s

95th percentile per-packet one-way delay: 149.946 ms

Loss rate: 5.14%

-- Flow 1:

Average throughput: 255.94 Mbit/s

95th percentile per-packet one-way delay: 178.152 ms

Loss rate: 7.12%

-- Flow 2:

Average throughput: 167.55 Mbit/s

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

Loss rate: 1.58%

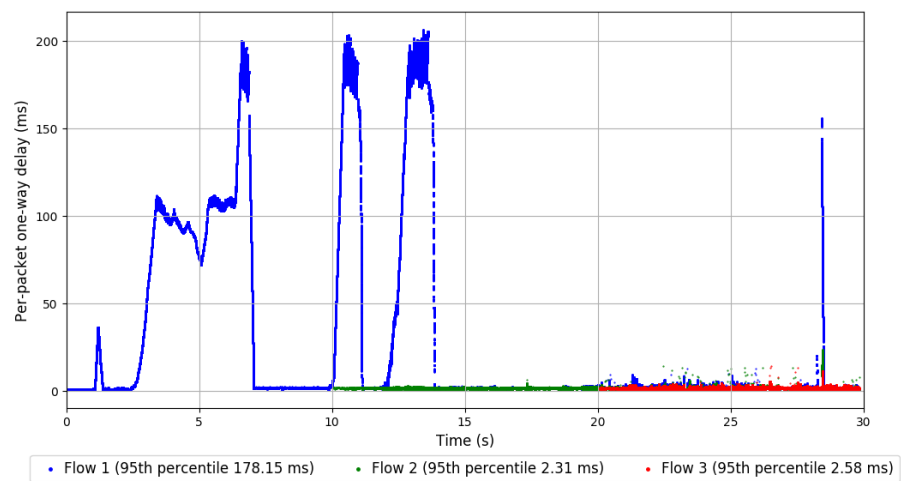
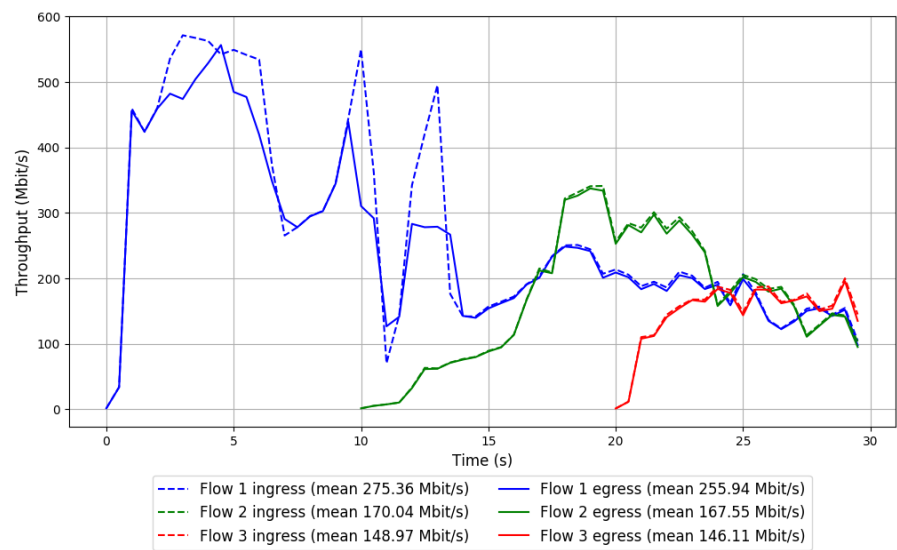
-- Flow 3:

Average throughput: 146.11 Mbit/s

95th percentile per-packet one-way delay: 2.583 ms

Loss rate: 2.21%

Run 4: Report of Vivace-loss — Data Link

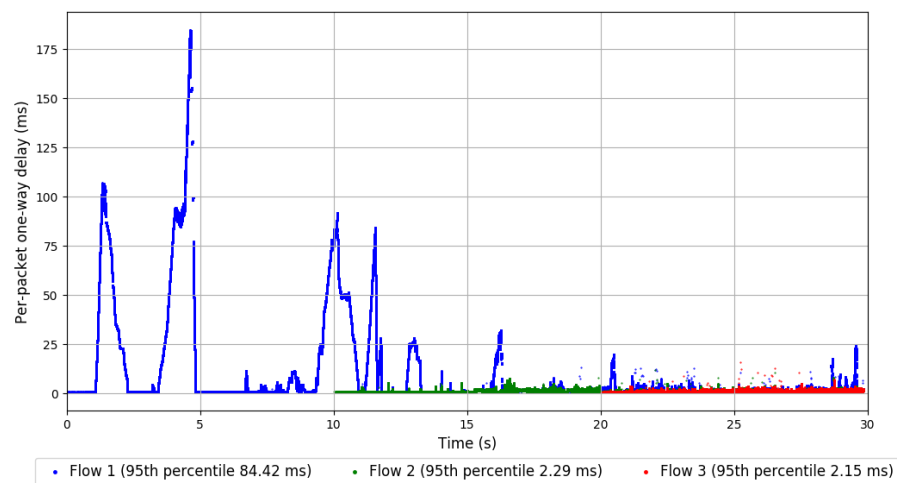
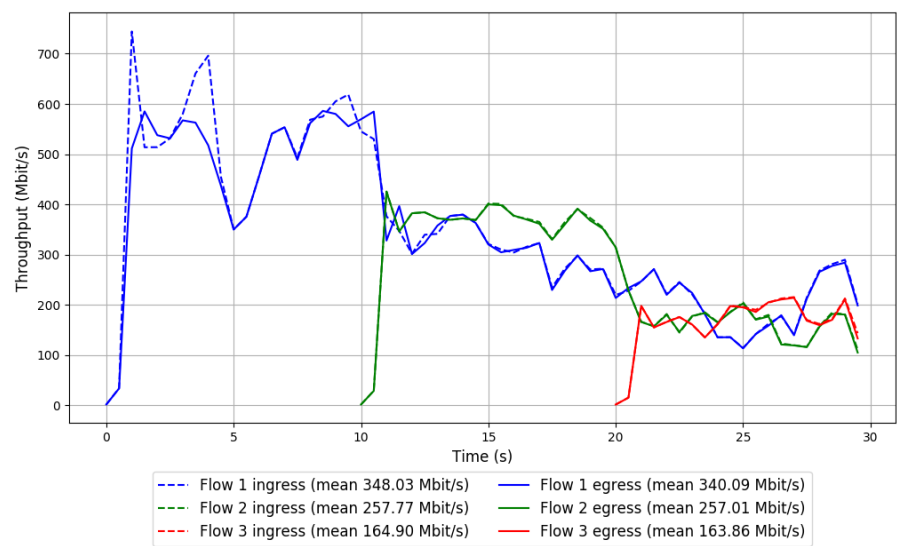


Run 5: Statistics of Vivace-loss

Start at: 2018-03-06 13:46:18
End at: 2018-03-06 13:46:48
Local clock offset: 0.023 ms
Remote clock offset: -1.151 ms

Below is generated by plot.py at 2018-03-07 00:05:44
Datalink statistics
-- Total of 3 flows:
Average throughput: 564.76 Mbit/s
95th percentile per-packet one-way delay: 68.966 ms
Loss rate: 1.64%
-- Flow 1:
Average throughput: 340.09 Mbit/s
95th percentile per-packet one-way delay: 84.420 ms
Loss rate: 2.37%
-- Flow 2:
Average throughput: 257.01 Mbit/s
95th percentile per-packet one-way delay: 2.295 ms
Loss rate: 0.42%
-- Flow 3:
Average throughput: 163.86 Mbit/s
95th percentile per-packet one-way delay: 2.151 ms
Loss rate: 0.85%

Run 5: Report of Vivace-loss — Data Link



Run 6: Statistics of Vivace-loss

Start at: 2018-03-06 14:15:48

End at: 2018-03-06 14:16:18

Local clock offset: 3.801 ms

Remote clock offset: 0.465 ms

Below is generated by plot.py at 2018-03-07 00:06:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 559.40 Mbit/s

95th percentile per-packet one-way delay: 98.173 ms

Loss rate: 1.49%

-- Flow 1:

Average throughput: 382.54 Mbit/s

95th percentile per-packet one-way delay: 99.941 ms

Loss rate: 1.93%

-- Flow 2:

Average throughput: 175.39 Mbit/s

95th percentile per-packet one-way delay: 3.017 ms

Loss rate: 0.39%

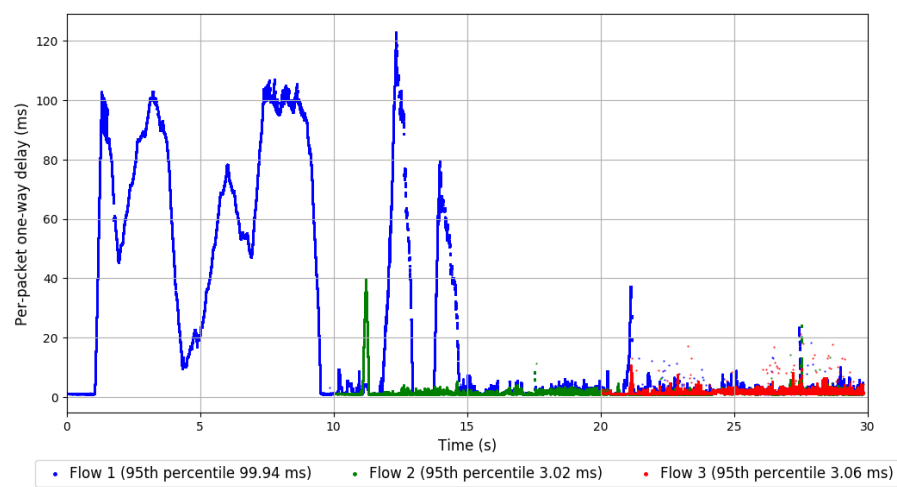
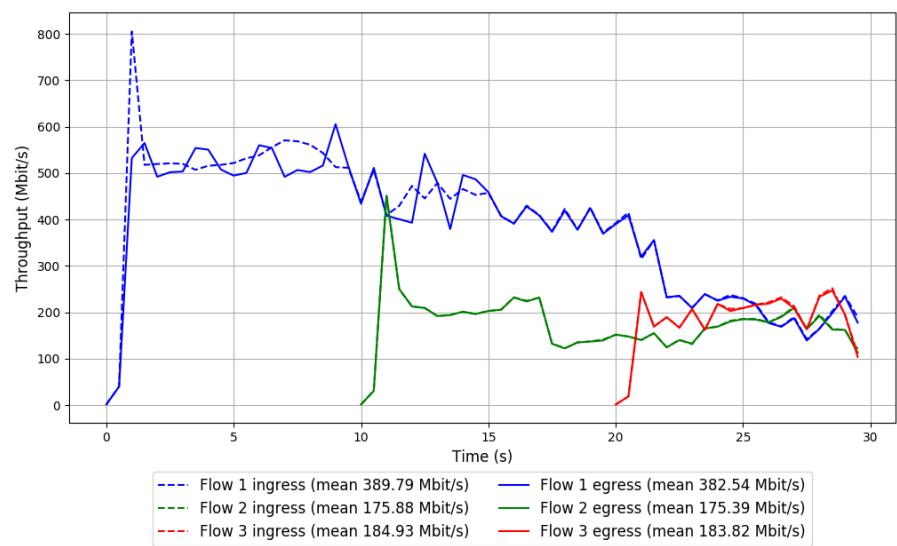
-- Flow 3:

Average throughput: 183.82 Mbit/s

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

Loss rate: 0.76%

Run 6: Report of Vivace-loss — Data Link



Run 7: Statistics of Vivace-loss

Start at: 2018-03-06 14:45:18

End at: 2018-03-06 14:45:48

Local clock offset: 4.939 ms

Remote clock offset: 2.026 ms

Below is generated by plot.py at 2018-03-07 00:08:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 543.51 Mbit/s

95th percentile per-packet one-way delay: 65.342 ms

Loss rate: 2.55%

-- Flow 1:

Average throughput: 309.87 Mbit/s

95th percentile per-packet one-way delay: 121.650 ms

Loss rate: 4.15%

-- Flow 2:

Average throughput: 278.33 Mbit/s

95th percentile per-packet one-way delay: 8.376 ms

Loss rate: 0.28%

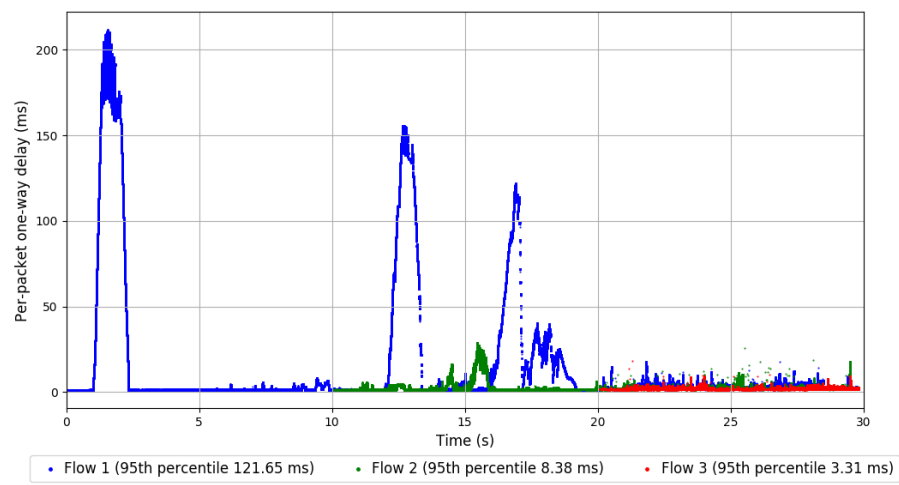
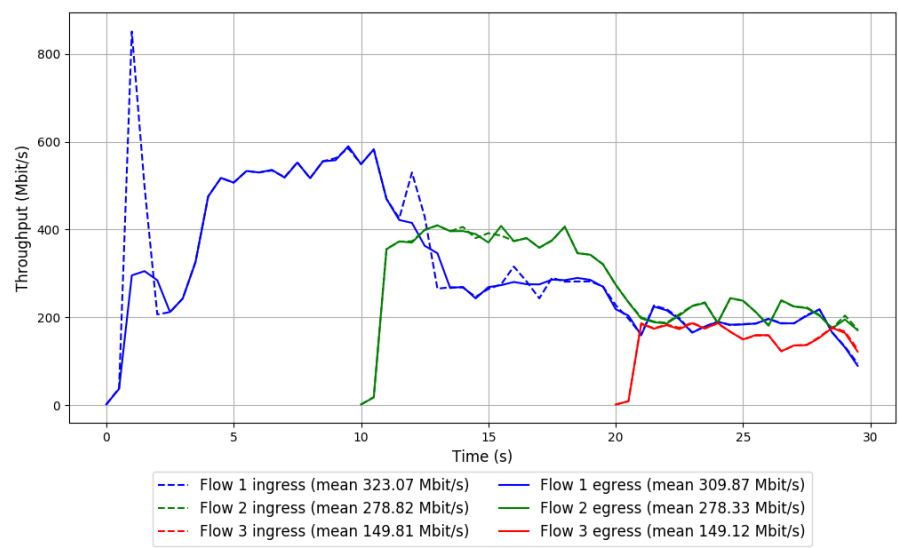
-- Flow 3:

Average throughput: 149.12 Mbit/s

95th percentile per-packet one-way delay: 3.305 ms

Loss rate: 0.66%

Run 7: Report of Vivace-loss — Data Link



Run 8: Statistics of Vivace-loss

Start at: 2018-03-06 15:19:52

End at: 2018-03-06 15:20:22

Local clock offset: 0.787 ms

Remote clock offset: 2.243 ms

Below is generated by plot.py at 2018-03-07 00:09:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 532.92 Mbit/s

95th percentile per-packet one-way delay: 108.600 ms

Loss rate: 2.73%

-- Flow 1:

Average throughput: 331.95 Mbit/s

95th percentile per-packet one-way delay: 146.885 ms

Loss rate: 4.19%

-- Flow 2:

Average throughput: 209.81 Mbit/s

95th percentile per-packet one-way delay: 1.678 ms

Loss rate: 0.09%

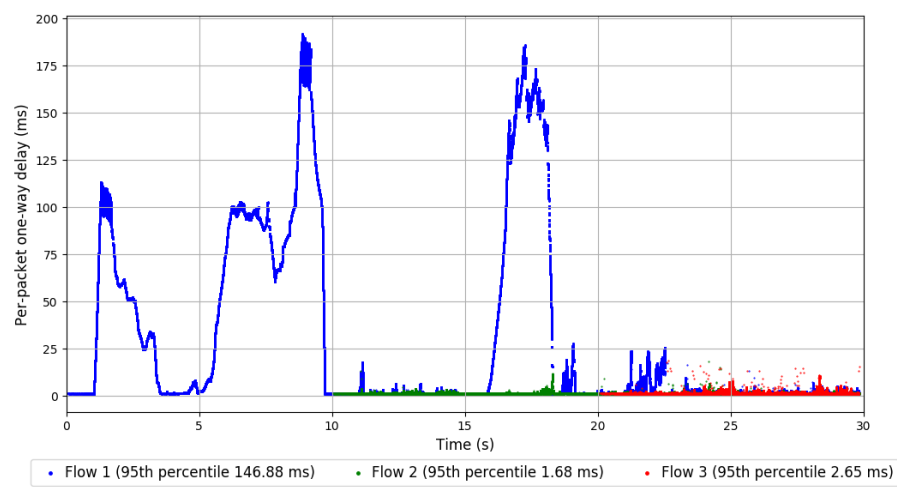
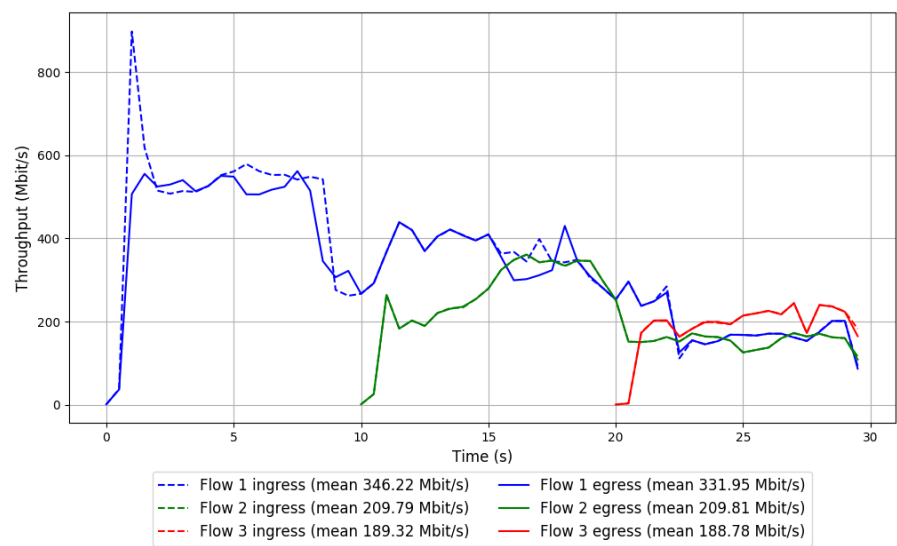
-- Flow 3:

Average throughput: 188.78 Mbit/s

95th percentile per-packet one-way delay: 2.650 ms

Loss rate: 0.50%

Run 8: Report of Vivace-loss — Data Link



Run 9: Statistics of Vivace-loss

Start at: 2018-03-06 15:48:51

End at: 2018-03-06 15:49:21

Local clock offset: 0.587 ms

Remote clock offset: 2.319 ms

Below is generated by plot.py at 2018-03-07 00:10:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 519.19 Mbit/s

95th percentile per-packet one-way delay: 77.075 ms

Loss rate: 3.12%

-- Flow 1:

Average throughput: 341.60 Mbit/s

95th percentile per-packet one-way delay: 93.822 ms

Loss rate: 3.95%

-- Flow 2:

Average throughput: 235.06 Mbit/s

95th percentile per-packet one-way delay: 5.014 ms

Loss rate: 1.48%

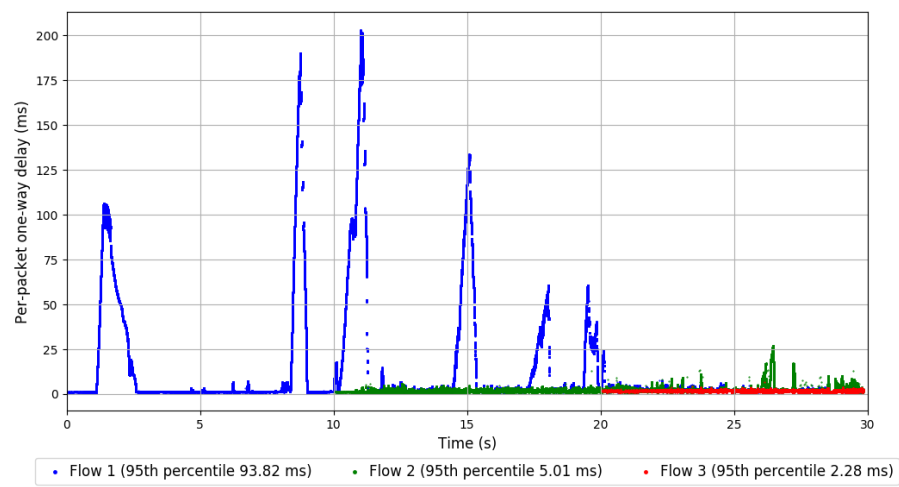
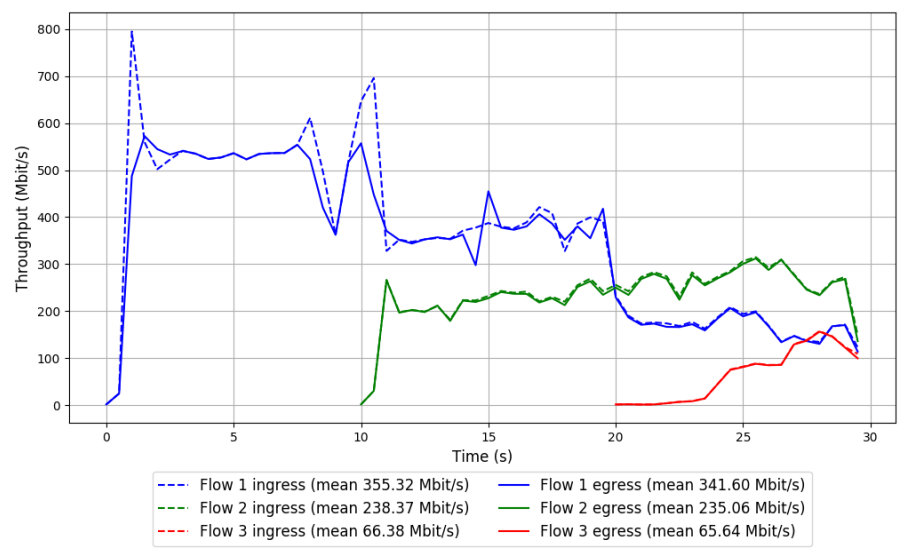
-- Flow 3:

Average throughput: 65.64 Mbit/s

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

Loss rate: 1.45%

Run 9: Report of Vivace-loss — Data Link



Run 10: Statistics of Vivace-loss

Start at: 2018-03-06 16:18:04

End at: 2018-03-06 16:18:34

Local clock offset: -1.693 ms

Remote clock offset: 1.73 ms

Below is generated by plot.py at 2018-03-07 00:11:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 522.50 Mbit/s

95th percentile per-packet one-way delay: 87.215 ms

Loss rate: 0.63%

-- Flow 1:

Average throughput: 331.30 Mbit/s

95th percentile per-packet one-way delay: 89.788 ms

Loss rate: 0.94%

-- Flow 2:

Average throughput: 204.02 Mbit/s

95th percentile per-packet one-way delay: 2.287 ms

Loss rate: 0.05%

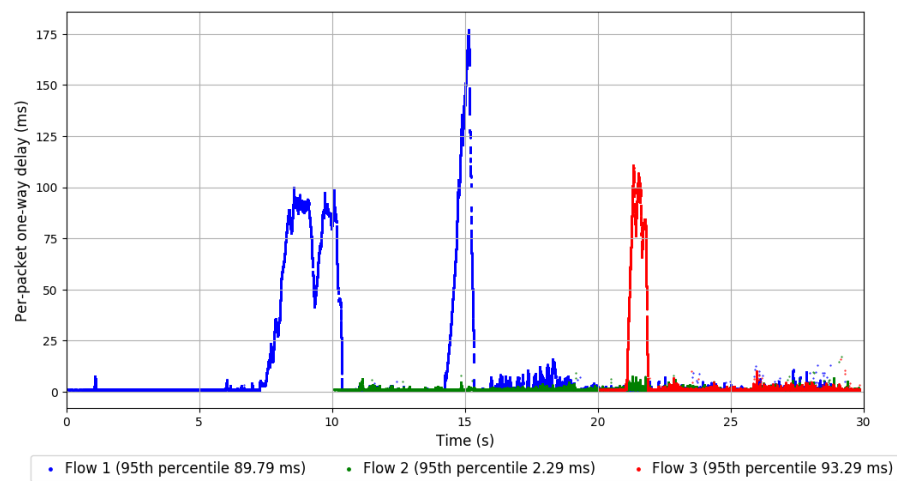
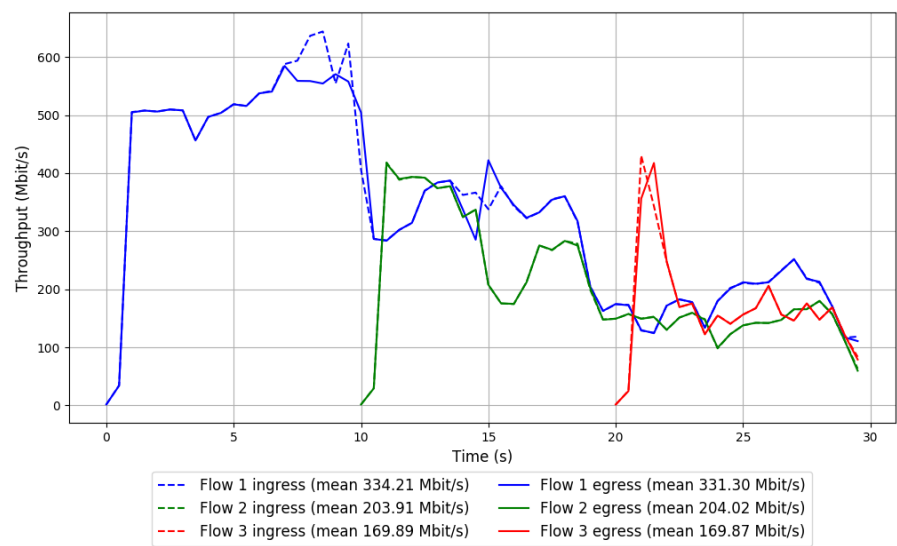
-- Flow 3:

Average throughput: 169.87 Mbit/s

95th percentile per-packet one-way delay: 93.294 ms

Loss rate: 0.14%

Run 10: Report of Vivace-loss — Data Link



Run 1: Statistics of Vivace-LTE

Start at: 2018-03-06 12:04:23

End at: 2018-03-06 12:04:53

Local clock offset: -1.735 ms

Remote clock offset: 5.197 ms

Below is generated by plot.py at 2018-03-07 00:11:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 479.49 Mbit/s

95th percentile per-packet one-way delay: 5.546 ms

Loss rate: 0.78%

-- Flow 1:

Average throughput: 285.28 Mbit/s

95th percentile per-packet one-way delay: 93.029 ms

Loss rate: 1.25%

-- Flow 2:

Average throughput: 215.67 Mbit/s

95th percentile per-packet one-way delay: 2.165 ms

Loss rate: 0.05%

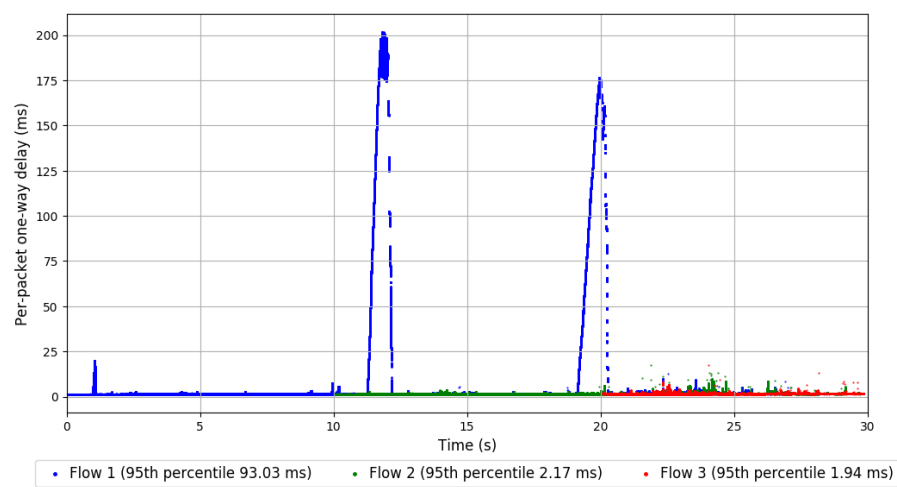
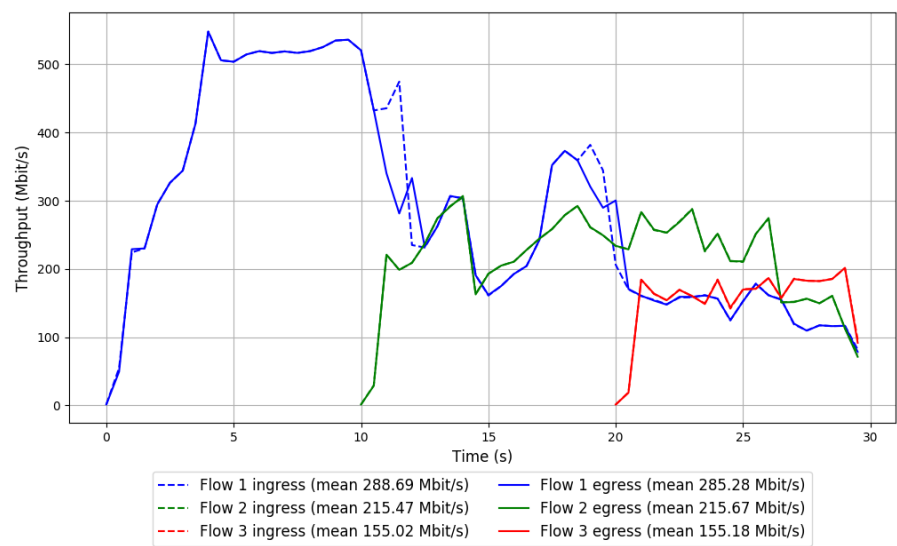
-- Flow 3:

Average throughput: 155.18 Mbit/s

95th percentile per-packet one-way delay: 1.940 ms

Loss rate: 0.16%

Run 1: Report of Vivace-LTE — Data Link



Run 2: Statistics of Vivace-LTE

Start at: 2018-03-06 12:34:01

End at: 2018-03-06 12:34:31

Local clock offset: -4.953 ms

Remote clock offset: 6.747 ms

Below is generated by plot.py at 2018-03-07 00:11:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 411.97 Mbit/s

95th percentile per-packet one-way delay: 16.068 ms

Loss rate: 0.84%

-- Flow 1:

Average throughput: 289.91 Mbit/s

95th percentile per-packet one-way delay: 39.027 ms

Loss rate: 1.13%

-- Flow 2:

Average throughput: 125.22 Mbit/s

95th percentile per-packet one-way delay: 1.441 ms

Loss rate: 0.10%

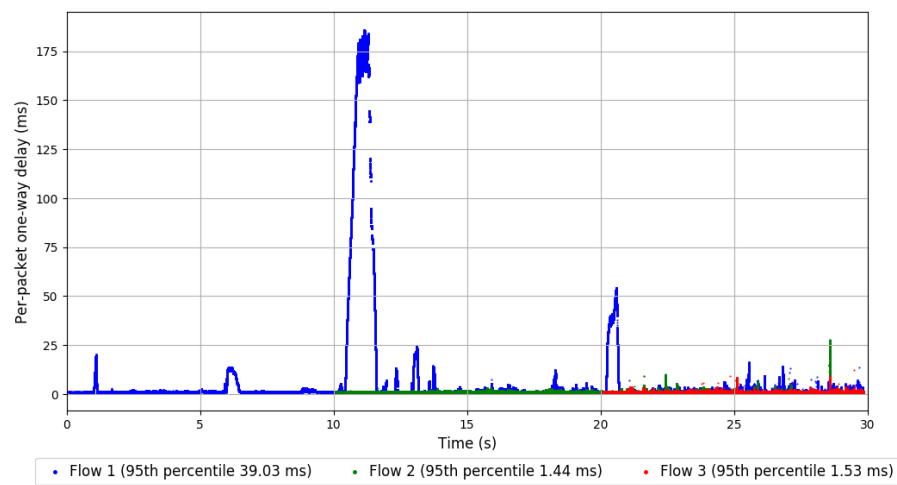
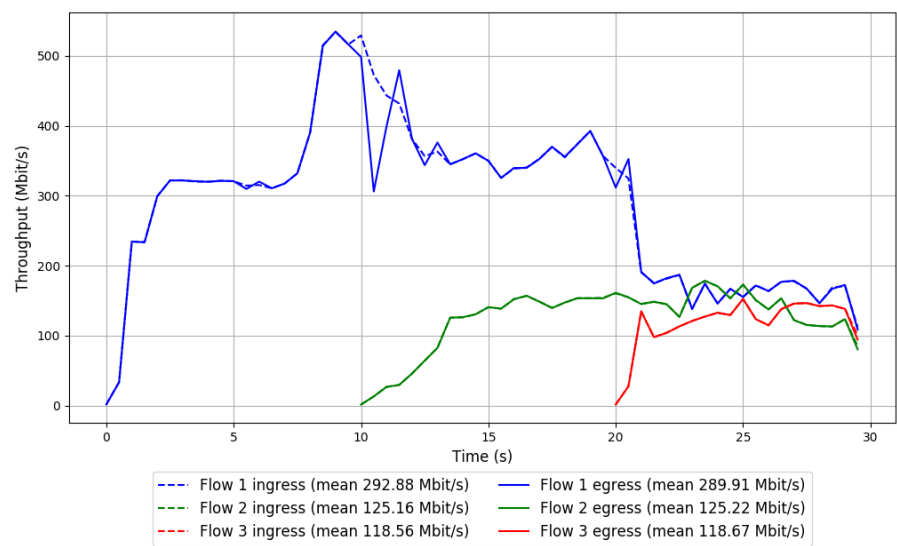
-- Flow 3:

Average throughput: 118.67 Mbit/s

95th percentile per-packet one-way delay: 1.535 ms

Loss rate: 0.26%

Run 2: Report of Vivace-LTE — Data Link



Run 3: Statistics of Vivace-LTE

Start at: 2018-03-06 13:03:37

End at: 2018-03-06 13:04:07

Local clock offset: -4.917 ms

Remote clock offset: 4.541 ms

Below is generated by plot.py at 2018-03-07 00:13:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 530.62 Mbit/s

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

Loss rate: 0.93%

-- Flow 1:

Average throughput: 301.48 Mbit/s

95th percentile per-packet one-way delay: 78.221 ms

Loss rate: 1.55%

-- Flow 2:

Average throughput: 279.08 Mbit/s

95th percentile per-packet one-way delay: 28.929 ms

Loss rate: 0.08%

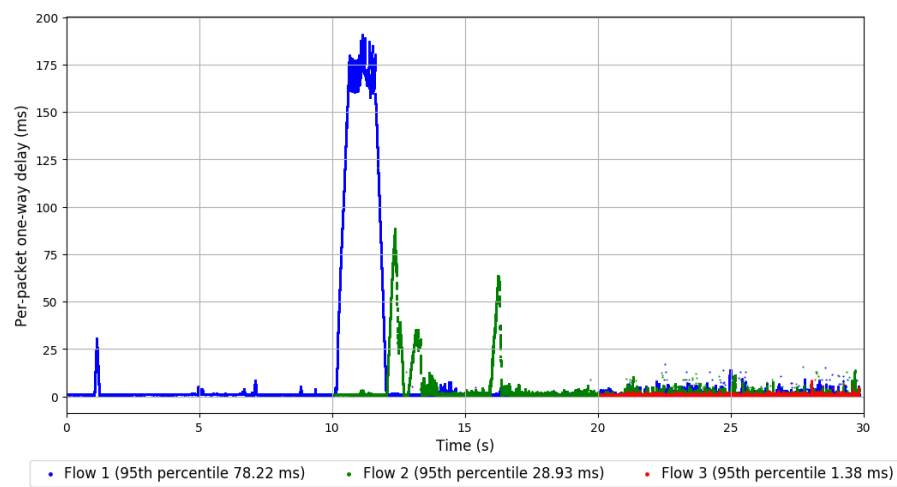
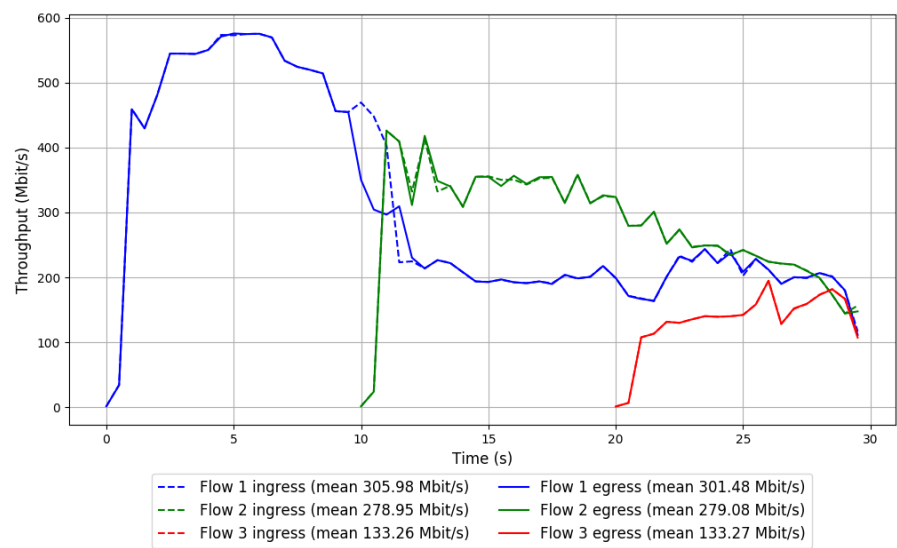
-- Flow 3:

Average throughput: 133.27 Mbit/s

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

Loss rate: 0.24%

Run 3: Report of Vivace-LTE — Data Link

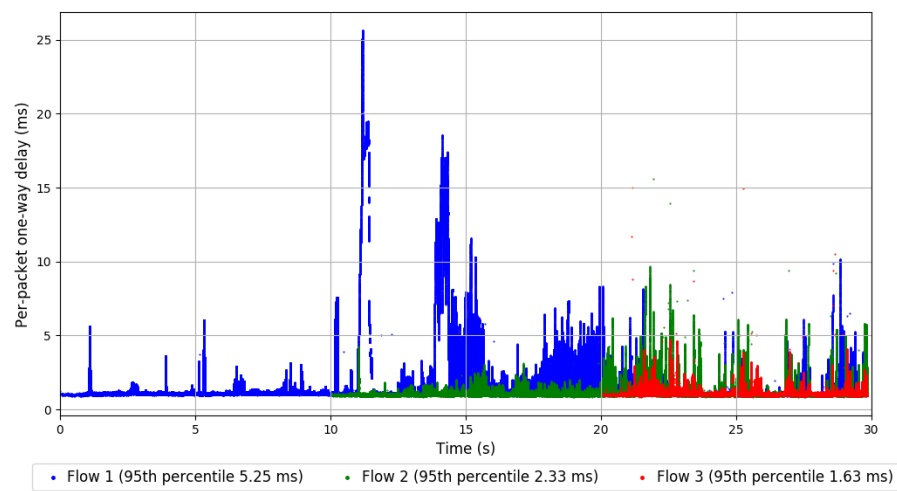
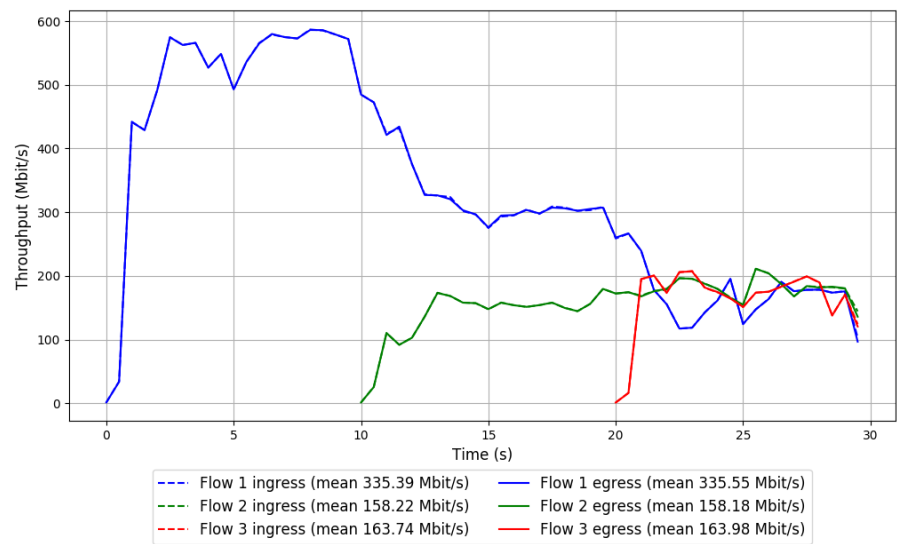


Run 4: Statistics of Vivace-LTE

Start at: 2018-03-06 13:32:41
End at: 2018-03-06 13:33:11
Local clock offset: -4.696 ms
Remote clock offset: -0.064 ms

Below is generated by plot.py at 2018-03-07 00:13:42
Datalink statistics
-- Total of 3 flows:
Average throughput: 494.47 Mbit/s
95th percentile per-packet one-way delay: 4.012 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 335.55 Mbit/s
95th percentile per-packet one-way delay: 5.245 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 158.18 Mbit/s
95th percentile per-packet one-way delay: 2.335 ms
Loss rate: 0.14%
-- Flow 3:
Average throughput: 163.98 Mbit/s
95th percentile per-packet one-way delay: 1.633 ms
Loss rate: 0.13%

Run 4: Report of Vivace-LTE — Data Link



Run 5: Statistics of Vivace-LTE

Start at: 2018-03-06 14:02:26

End at: 2018-03-06 14:02:56

Local clock offset: 3.294 ms

Remote clock offset: 0.459 ms

Below is generated by plot.py at 2018-03-07 00:15:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 489.29 Mbit/s

95th percentile per-packet one-way delay: 79.123 ms

Loss rate: 1.02%

-- Flow 1:

Average throughput: 281.06 Mbit/s

95th percentile per-packet one-way delay: 126.051 ms

Loss rate: 1.69%

-- Flow 2:

Average throughput: 238.88 Mbit/s

95th percentile per-packet one-way delay: 2.733 ms

Loss rate: 0.10%

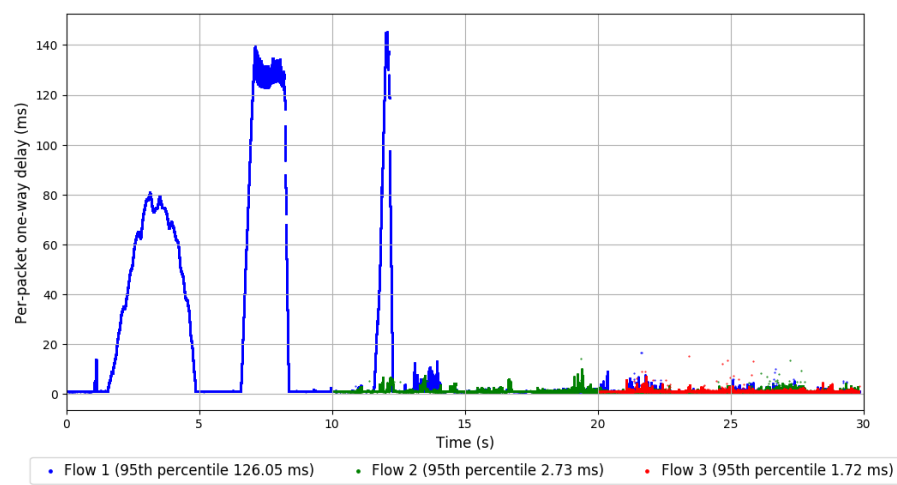
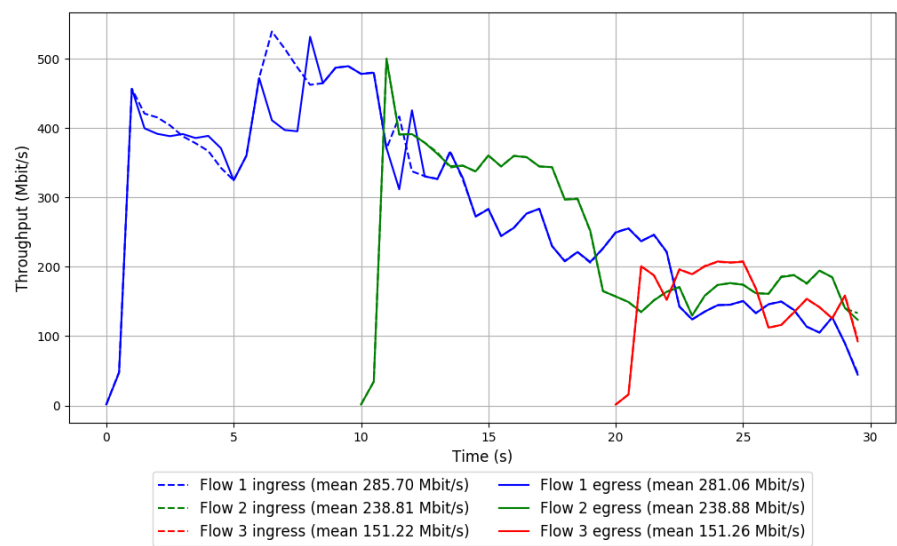
-- Flow 3:

Average throughput: 151.26 Mbit/s

95th percentile per-packet one-way delay: 1.718 ms

Loss rate: 0.12%

Run 5: Report of Vivace-LTE — Data Link



Run 6: Statistics of Vivace-LTE

Start at: 2018-03-06 14:31:50

End at: 2018-03-06 14:32:20

Local clock offset: 4.474 ms

Remote clock offset: 1.526 ms

Below is generated by plot.py at 2018-03-07 00:16:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 482.55 Mbit/s

95th percentile per-packet one-way delay: 91.749 ms

Loss rate: 0.69%

-- Flow 1:

Average throughput: 290.15 Mbit/s

95th percentile per-packet one-way delay: 98.656 ms

Loss rate: 1.10%

-- Flow 2:

Average throughput: 219.03 Mbit/s

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

Loss rate: 0.08%

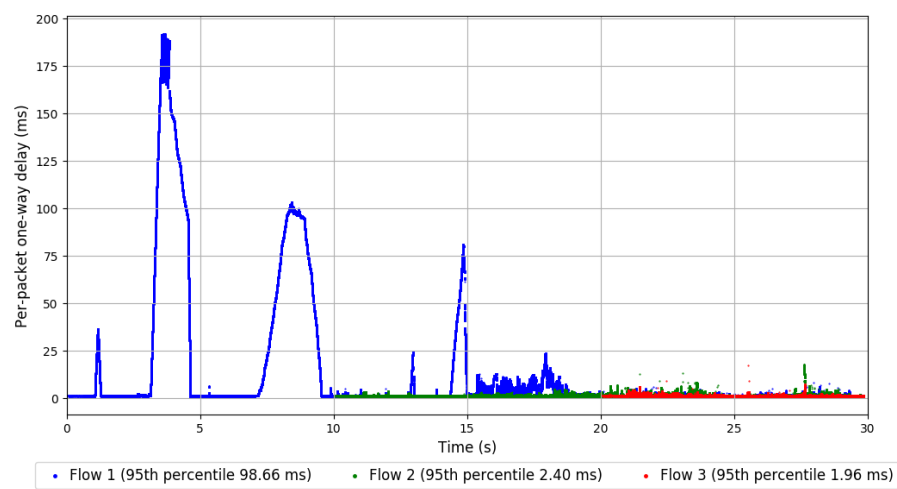
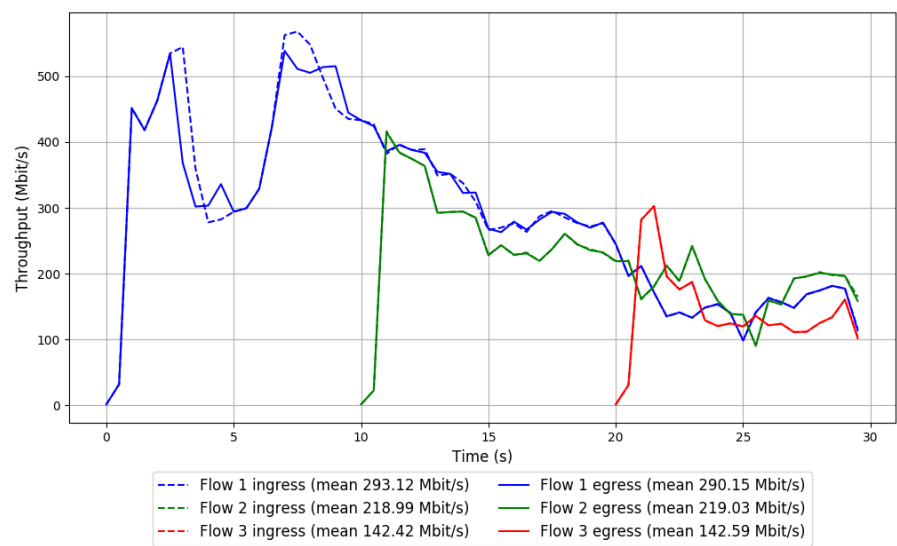
-- Flow 3:

Average throughput: 142.59 Mbit/s

95th percentile per-packet one-way delay: 1.955 ms

Loss rate: 0.09%

Run 6: Report of Vivace-LTE — Data Link



Run 7: Statistics of Vivace-LTE

Start at: 2018-03-06 15:06:20

End at: 2018-03-06 15:06:50

Local clock offset: 1.017 ms

Remote clock offset: 2.2 ms

Below is generated by plot.py at 2018-03-07 00:16:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 464.91 Mbit/s

95th percentile per-packet one-way delay: 9.562 ms

Loss rate: 0.62%

-- Flow 1:

Average throughput: 332.41 Mbit/s

95th percentile per-packet one-way delay: 25.247 ms

Loss rate: 0.81%

-- Flow 2:

Average throughput: 117.83 Mbit/s

95th percentile per-packet one-way delay: 1.475 ms

Loss rate: 0.15%

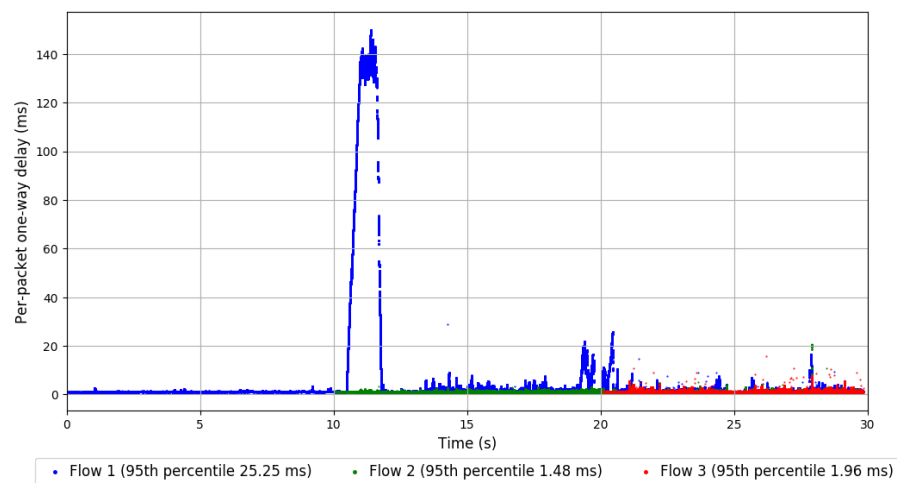
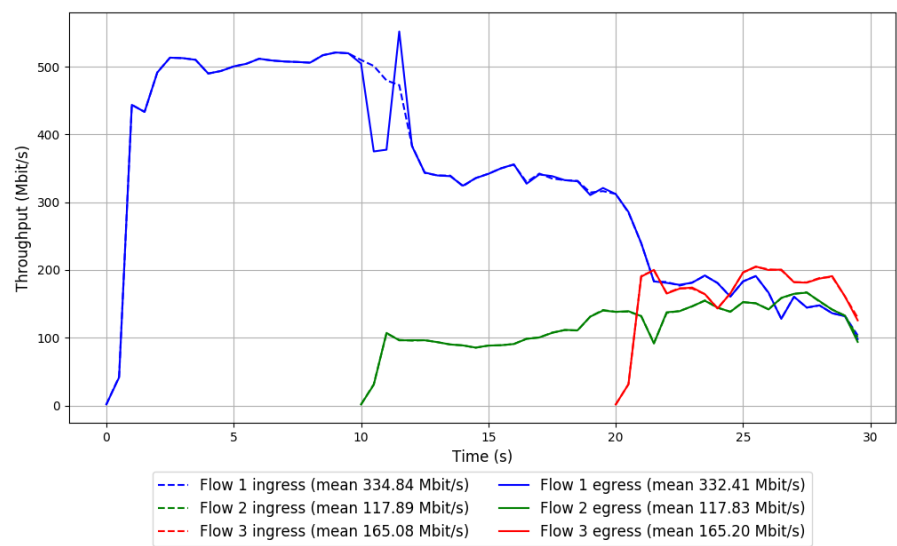
-- Flow 3:

Average throughput: 165.20 Mbit/s

95th percentile per-packet one-way delay: 1.964 ms

Loss rate: 0.14%

Run 7: Report of Vivace-LTE — Data Link



Run 8: Statistics of Vivace-LTE

Start at: 2018-03-06 15:35:30

End at: 2018-03-06 15:36:00

Local clock offset: 0.696 ms

Remote clock offset: 2.334 ms

Below is generated by plot.py at 2018-03-07 00:16:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 487.28 Mbit/s

95th percentile per-packet one-way delay: 38.756 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 366.53 Mbit/s

95th percentile per-packet one-way delay: 72.573 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 102.94 Mbit/s

95th percentile per-packet one-way delay: 1.523 ms

Loss rate: 0.16%

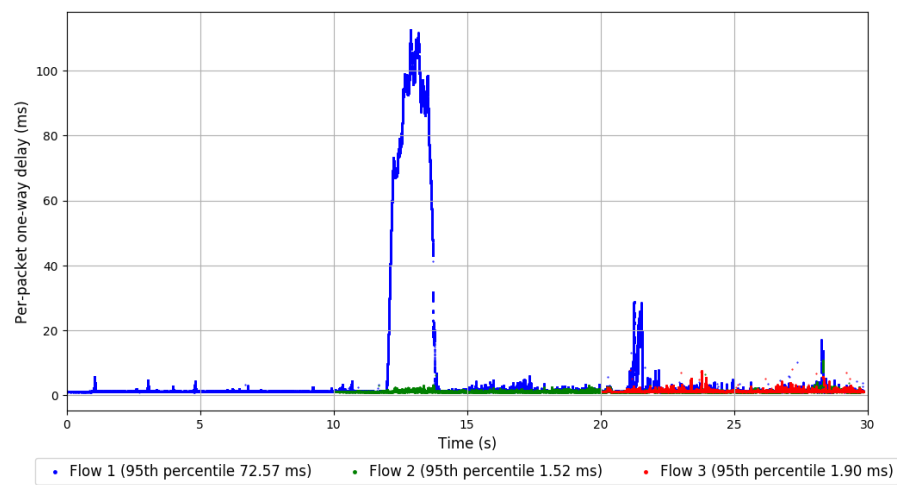
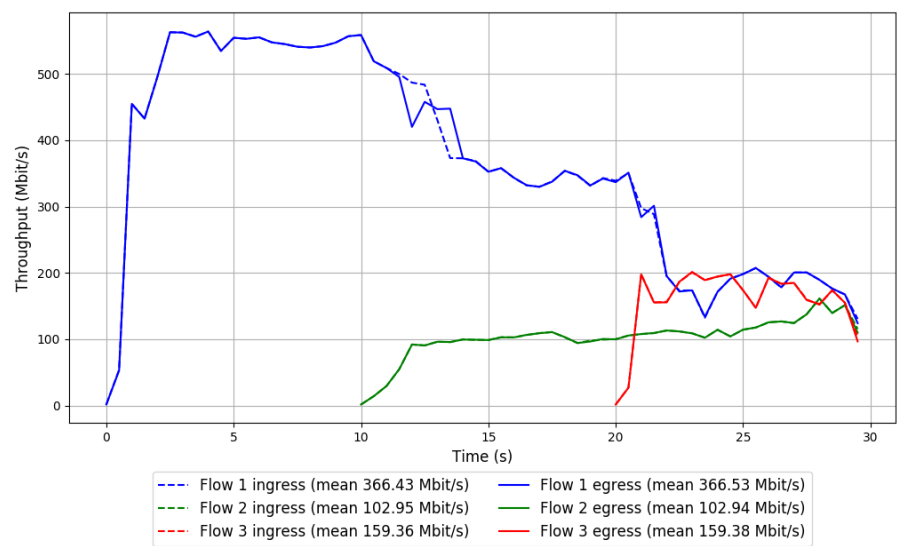
-- Flow 3:

Average throughput: 159.38 Mbit/s

95th percentile per-packet one-way delay: 1.904 ms

Loss rate: 0.21%

Run 8: Report of Vivace-LTE — Data Link



Run 9: Statistics of Vivace-LTE

Start at: 2018-03-06 16:04:53

End at: 2018-03-06 16:05:23

Local clock offset: -0.953 ms

Remote clock offset: 2.26 ms

Below is generated by plot.py at 2018-03-07 00:16:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 445.30 Mbit/s

95th percentile per-packet one-way delay: 16.005 ms

Loss rate: 1.14%

-- Flow 1:

Average throughput: 286.43 Mbit/s

95th percentile per-packet one-way delay: 114.856 ms

Loss rate: 1.63%

-- Flow 2:

Average throughput: 177.94 Mbit/s

95th percentile per-packet one-way delay: 2.535 ms

Loss rate: 0.24%

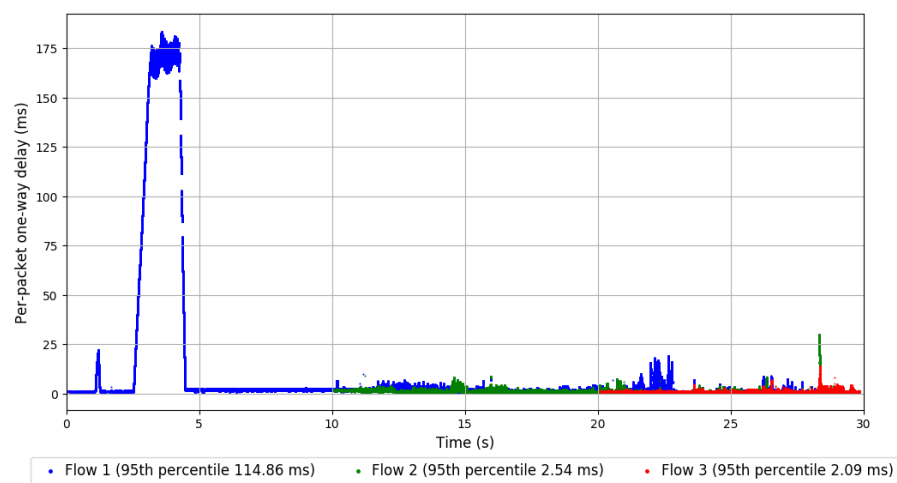
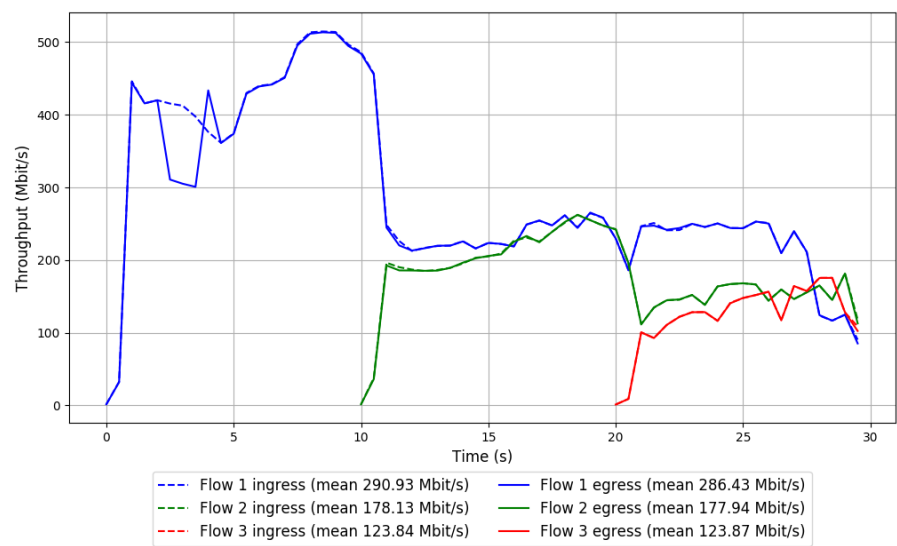
-- Flow 3:

Average throughput: 123.87 Mbit/s

95th percentile per-packet one-way delay: 2.088 ms

Loss rate: 0.25%

Run 9: Report of Vivace-LTE — Data Link



Run 10: Statistics of Vivace-LTE

Start at: 2018-03-06 16:33:46

End at: 2018-03-06 16:34:16

Local clock offset: -4.374 ms

Remote clock offset: 1.516 ms

Below is generated by plot.py at 2018-03-07 00:16:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 460.33 Mbit/s

95th percentile per-packet one-way delay: 122.165 ms

Loss rate: 1.65%

-- Flow 1:

Average throughput: 253.28 Mbit/s

95th percentile per-packet one-way delay: 24.547 ms

Loss rate: 2.42%

-- Flow 2:

Average throughput: 232.12 Mbit/s

95th percentile per-packet one-way delay: 138.432 ms

Loss rate: 0.86%

-- Flow 3:

Average throughput: 160.95 Mbit/s

95th percentile per-packet one-way delay: 2.007 ms

Loss rate: 0.22%

Run 10: Report of Vivace-LTE — Data Link

