

Pantheon Report

Generated at 2018-03-07 02:38:13 (UTC).

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

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).

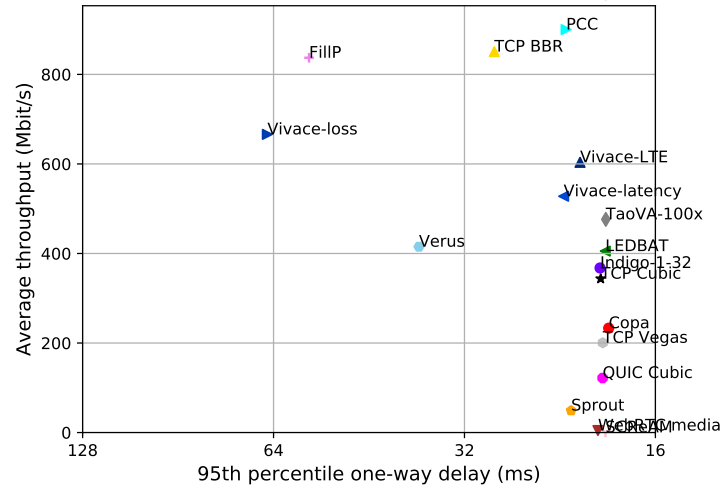
Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo_fast**).

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

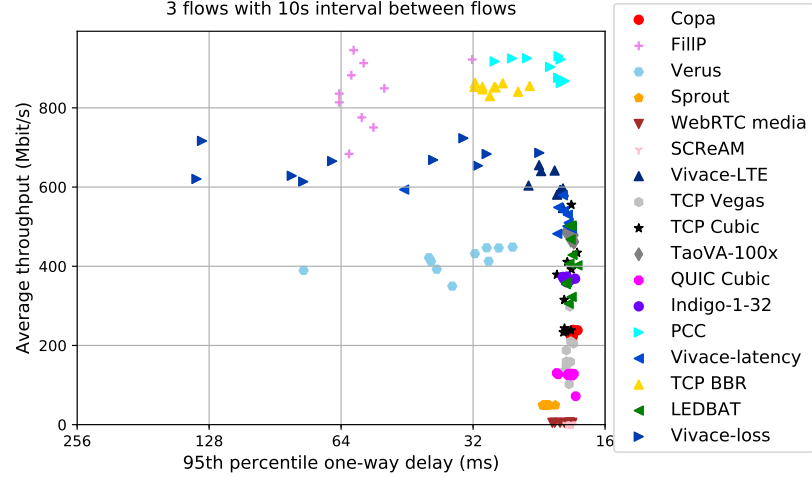
Git summary:

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



test from AWS California 1 Ethernet to Stanford 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	494.66	377.57	315.65	31.33	20.23	20.01	2.77	5.22	7.26
TCP Cubic	10	209.45	137.95	127.43	19.33	19.48	19.43	0.05	0.08	0.09
LEDBAT	10	235.56	185.30	140.29	18.93	19.00	19.06	0.03	0.05	0.07
PCC	10	772.14	151.61	82.68	22.73	19.98	19.86	0.55	0.47	0.55
QUIC Cubic	10	62.32	63.06	54.16	19.23	19.52	19.61	0.00	0.00	0.01
SCReAM	10	0.22	0.22	0.22	18.92	18.98	18.97	0.00	0.00	0.00
WebRTC media	10	2.18	1.58	0.73	19.67	19.38	20.46	0.00	0.00	0.00
Sprout	10	24.73	24.63	24.37	21.68	21.61	21.03	0.04	0.03	0.02
TaoVA-100x	10	245.10	232.35	230.61	18.88	19.05	19.42	0.00	0.01	0.01
TCP Vegas	10	106.12	78.50	126.87	18.97	19.11	19.39	0.07	0.15	0.10
Verus	10	217.26	210.18	179.33	43.28	28.65	25.20	13.64	14.16	14.34
Copa	10	114.59	114.20	128.33	18.96	18.42	18.26	0.00	0.00	0.00
FillP	10	512.98	284.17	407.59	52.17	48.29	36.23	8.21	12.95	13.45
Indigo-1-32	10	189.93	184.35	173.99	19.37	19.19	20.04	0.01	0.01	0.02
Vivace-latency	10	313.29	262.13	122.15	24.93	18.98	19.30	0.08	0.19	0.38
Vivace-loss	10	374.12	345.28	189.50	74.28	52.56	19.86	1.00	1.04	1.69
Vivace-LTE	10	362.17	323.17	81.08	22.82	19.60	19.60	0.24	0.40	0.63

Run 1: Statistics of TCP BBR

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

End at: 2018-03-06 17:03:36

Local clock offset: -8.161 ms

Remote clock offset: 2.522 ms

Below is generated by plot.py at 2018-03-07 00:29:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 851.68 Mbit/s

95th percentile per-packet one-way delay: 28.443 ms

Loss rate: 4.37%

-- Flow 1:

Average throughput: 488.25 Mbit/s

95th percentile per-packet one-way delay: 31.399 ms

Loss rate: 3.25%

-- Flow 2:

Average throughput: 393.63 Mbit/s

95th percentile per-packet one-way delay: 20.308 ms

Loss rate: 5.11%

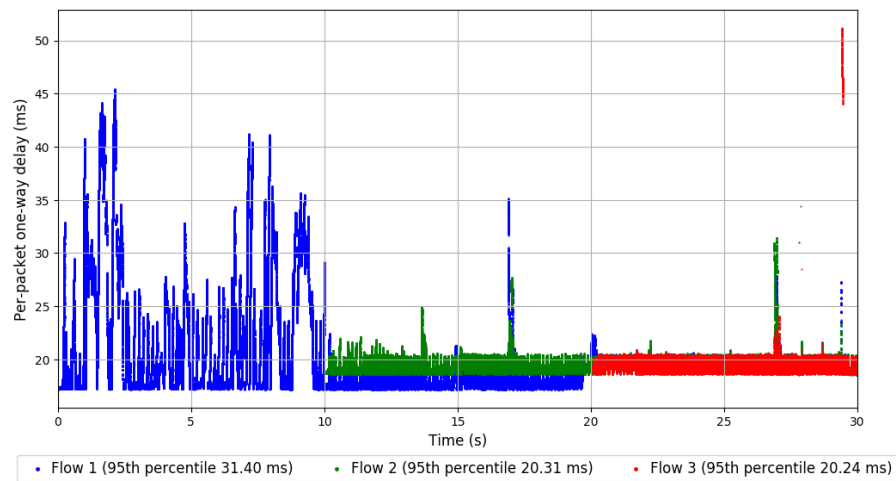
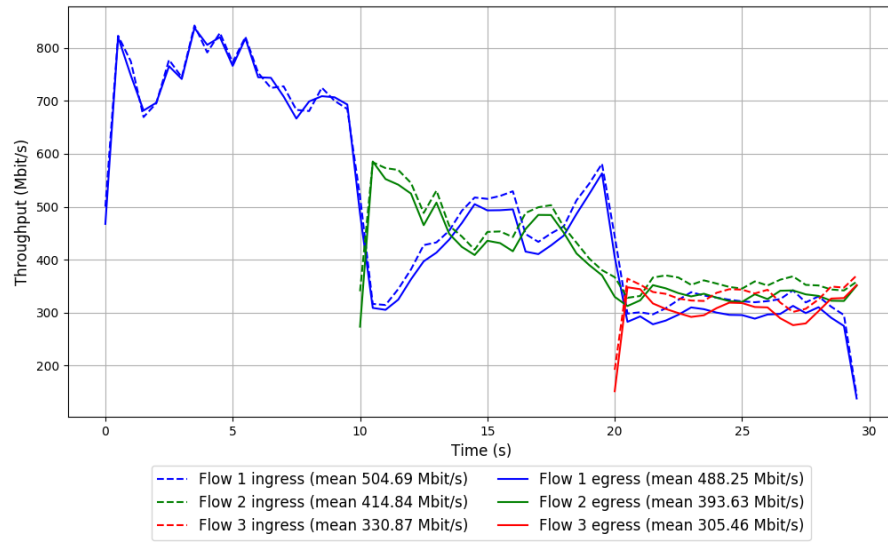
-- Flow 3:

Average throughput: 305.46 Mbit/s

95th percentile per-packet one-way delay: 20.239 ms

Loss rate: 7.67%

Run 1: Report of TCP BBR — Data Link

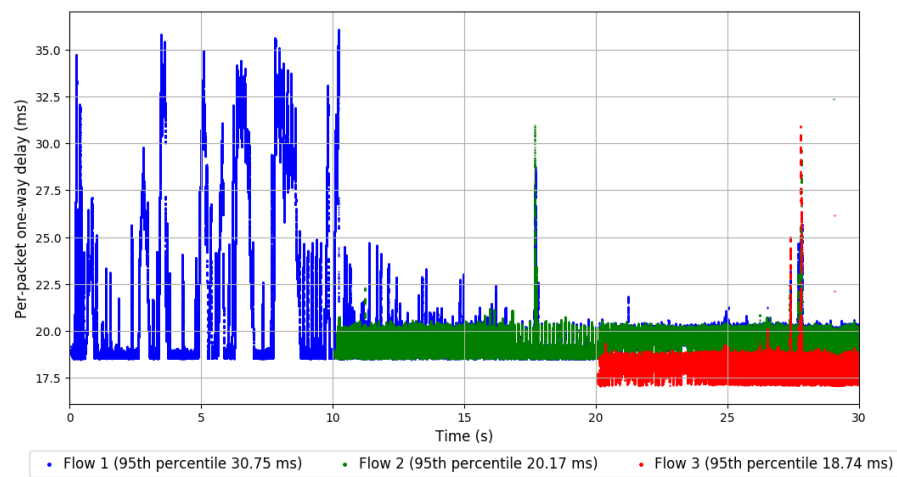
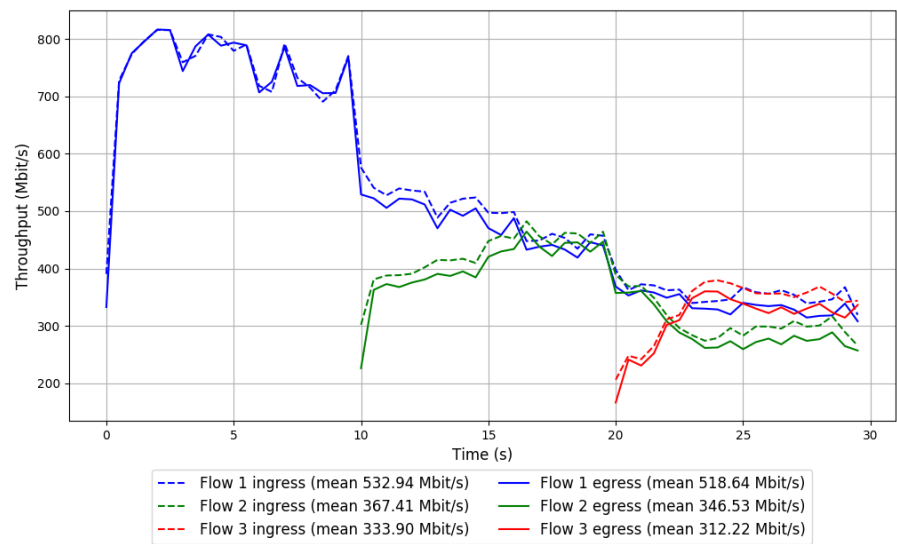


Run 2: Statistics of TCP BBR

Start at: 2018-03-06 17:33:24
End at: 2018-03-06 17:33:54
Local clock offset: -10.654 ms
Remote clock offset: 1.073 ms

Below is generated by plot.py at 2018-03-07 00:29:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 852.98 Mbit/s
95th percentile per-packet one-way delay: 28.614 ms
Loss rate: 3.98%
-- Flow 1:
Average throughput: 518.64 Mbit/s
95th percentile per-packet one-way delay: 30.749 ms
Loss rate: 2.68%
-- Flow 2:
Average throughput: 346.53 Mbit/s
95th percentile per-packet one-way delay: 20.168 ms
Loss rate: 5.68%
-- Flow 3:
Average throughput: 312.22 Mbit/s
95th percentile per-packet one-way delay: 18.743 ms
Loss rate: 6.49%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

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

End at: 2018-03-06 18:03:36

Local clock offset: -6.376 ms

Remote clock offset: 0.942 ms

Below is generated by plot.py at 2018-03-07 00:29:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 853.01 Mbit/s

95th percentile per-packet one-way delay: 31.786 ms

Loss rate: 4.22%

-- Flow 1:

Average throughput: 543.99 Mbit/s

95th percentile per-packet one-way delay: 32.728 ms

Loss rate: 2.68%

-- Flow 2:

Average throughput: 319.90 Mbit/s

95th percentile per-packet one-way delay: 20.416 ms

Loss rate: 6.22%

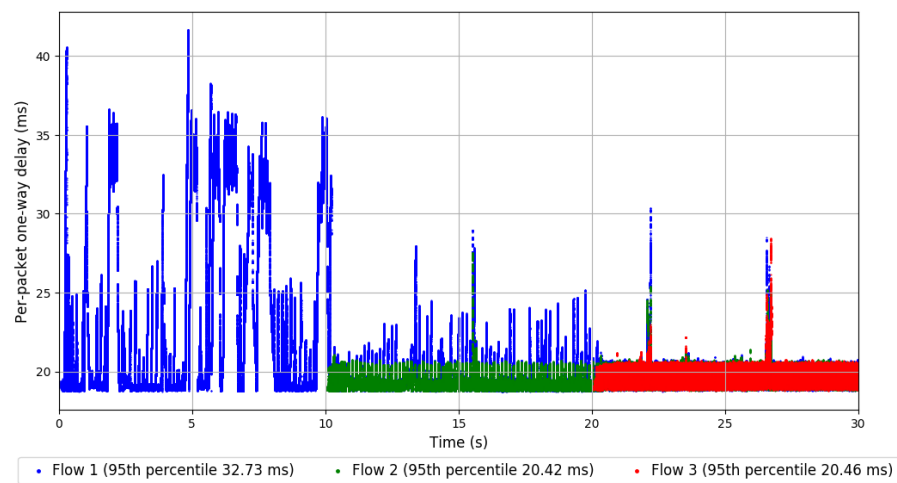
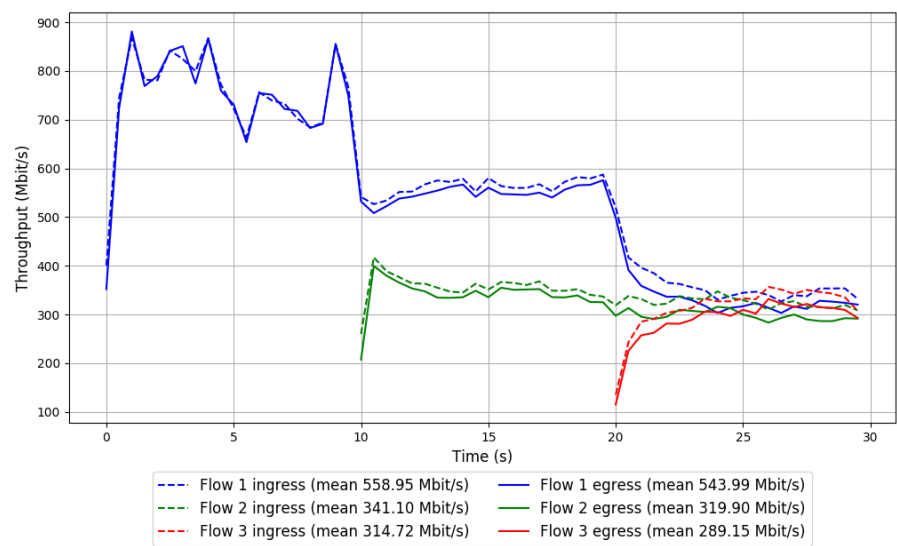
-- Flow 3:

Average throughput: 289.15 Mbit/s

95th percentile per-packet one-way delay: 20.460 ms

Loss rate: 8.14%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-03-06 18:33:02

End at: 2018-03-06 18:33:32

Local clock offset: 2.014 ms

Remote clock offset: 2.478 ms

Below is generated by plot.py at 2018-03-07 00:29:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 862.15 Mbit/s

95th percentile per-packet one-way delay: 27.377 ms

Loss rate: 3.60%

-- Flow 1:

Average throughput: 476.78 Mbit/s

95th percentile per-packet one-way delay: 32.026 ms

Loss rate: 2.41%

-- Flow 2:

Average throughput: 413.10 Mbit/s

95th percentile per-packet one-way delay: 21.561 ms

Loss rate: 4.41%

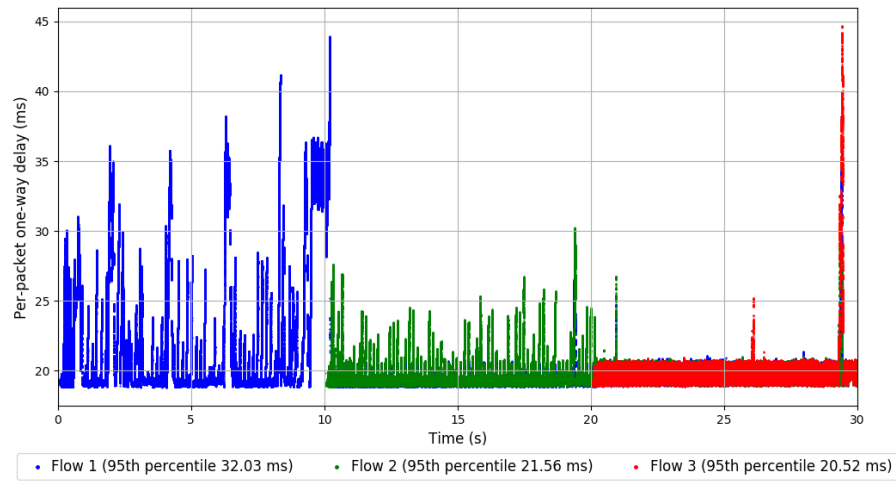
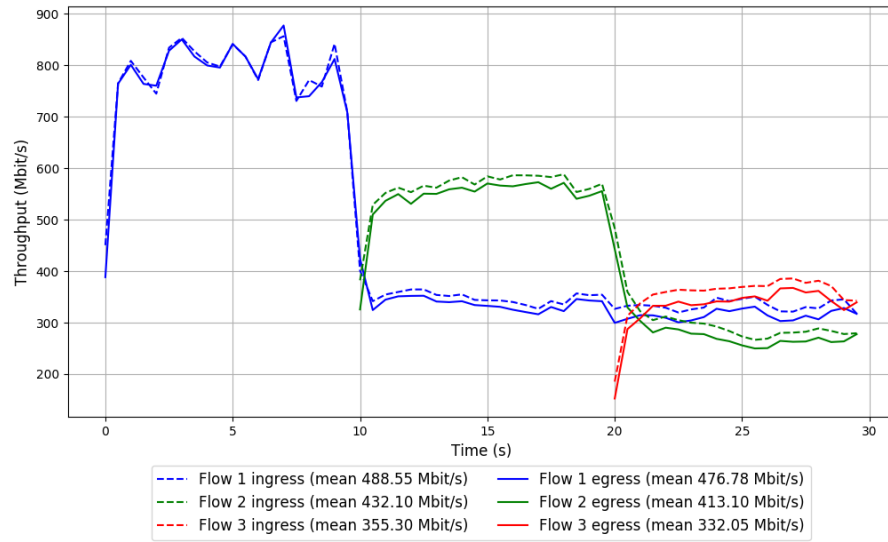
-- Flow 3:

Average throughput: 332.05 Mbit/s

95th percentile per-packet one-way delay: 20.525 ms

Loss rate: 6.54%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-03-06 19:02:41

End at: 2018-03-06 19:03:11

Local clock offset: -5.278 ms

Remote clock offset: 1.9 ms

Below is generated by plot.py at 2018-03-07 00:29:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 855.28 Mbit/s

95th percentile per-packet one-way delay: 23.772 ms

Loss rate: 3.74%

-- Flow 1:

Average throughput: 535.22 Mbit/s

95th percentile per-packet one-way delay: 26.505 ms

Loss rate: 2.44%

-- Flow 2:

Average throughput: 281.62 Mbit/s

95th percentile per-packet one-way delay: 20.207 ms

Loss rate: 5.82%

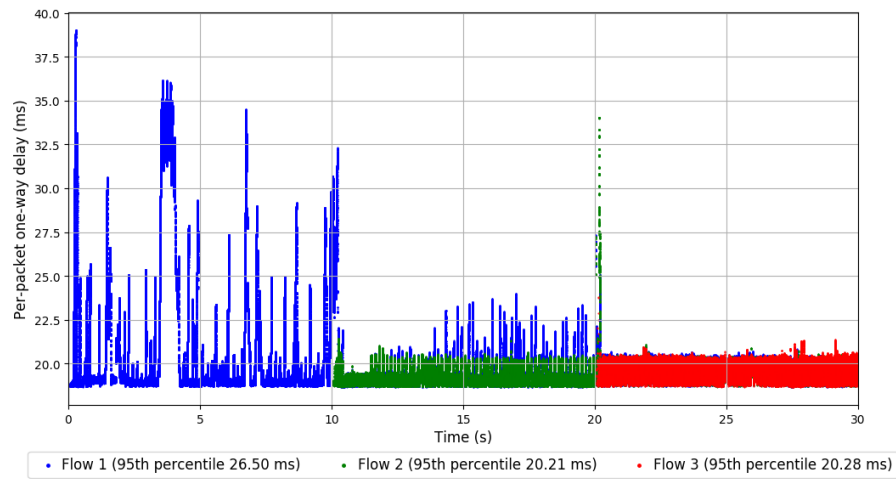
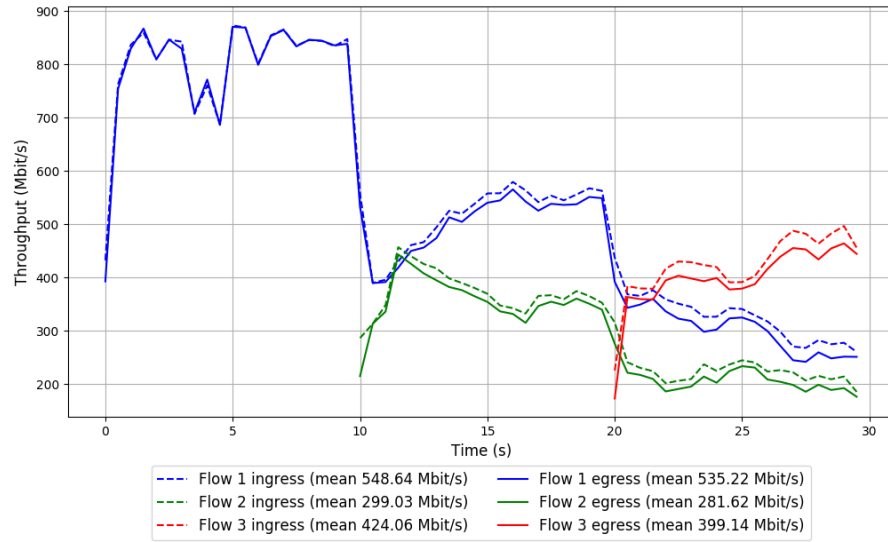
-- Flow 3:

Average throughput: 399.14 Mbit/s

95th percentile per-packet one-way delay: 20.282 ms

Loss rate: 5.87%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-03-06 19:32:12

End at: 2018-03-06 19:32:42

Local clock offset: -2.554 ms

Remote clock offset: 1.004 ms

Below is generated by plot.py at 2018-03-07 00:29:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 846.82 Mbit/s

95th percentile per-packet one-way delay: 30.472 ms

Loss rate: 4.33%

-- Flow 1:

Average throughput: 486.49 Mbit/s

95th percentile per-packet one-way delay: 32.103 ms

Loss rate: 3.10%

-- Flow 2:

Average throughput: 400.48 Mbit/s

95th percentile per-packet one-way delay: 20.489 ms

Loss rate: 5.00%

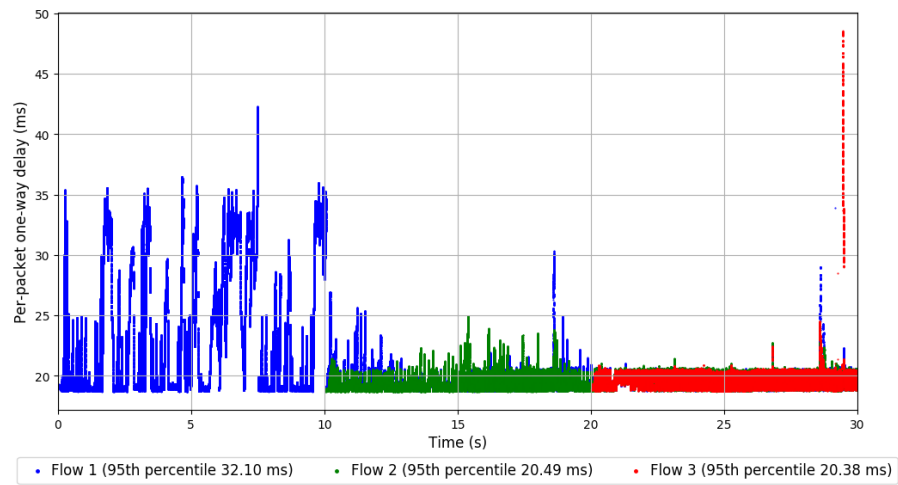
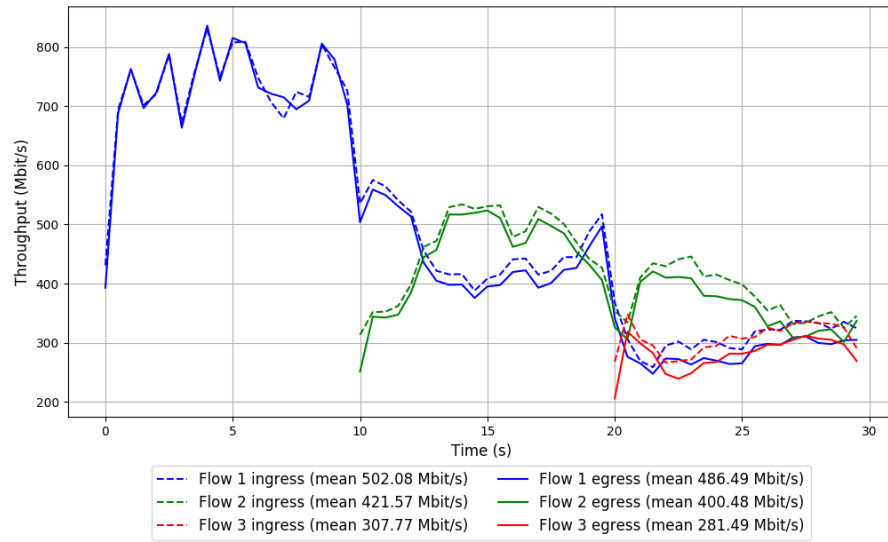
-- Flow 3:

Average throughput: 281.49 Mbit/s

95th percentile per-packet one-way delay: 20.380 ms

Loss rate: 8.53%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-03-06 20:01:29

End at: 2018-03-06 20:01:59

Local clock offset: -0.466 ms

Remote clock offset: 0.949 ms

Below is generated by plot.py at 2018-03-07 00:29:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 829.77 Mbit/s

95th percentile per-packet one-way delay: 29.301 ms

Loss rate: 3.99%

-- Flow 1:

Average throughput: 477.77 Mbit/s

95th percentile per-packet one-way delay: 32.766 ms

Loss rate: 2.91%

-- Flow 2:

Average throughput: 407.47 Mbit/s

95th percentile per-packet one-way delay: 19.862 ms

Loss rate: 5.02%

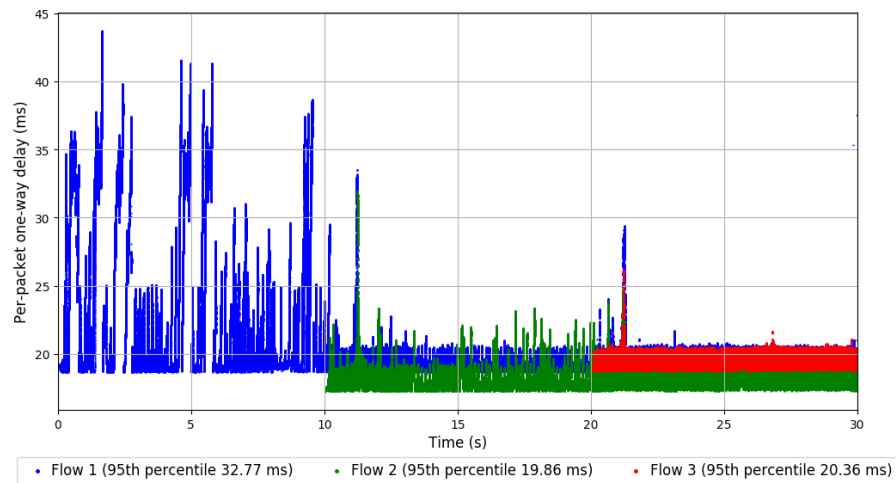
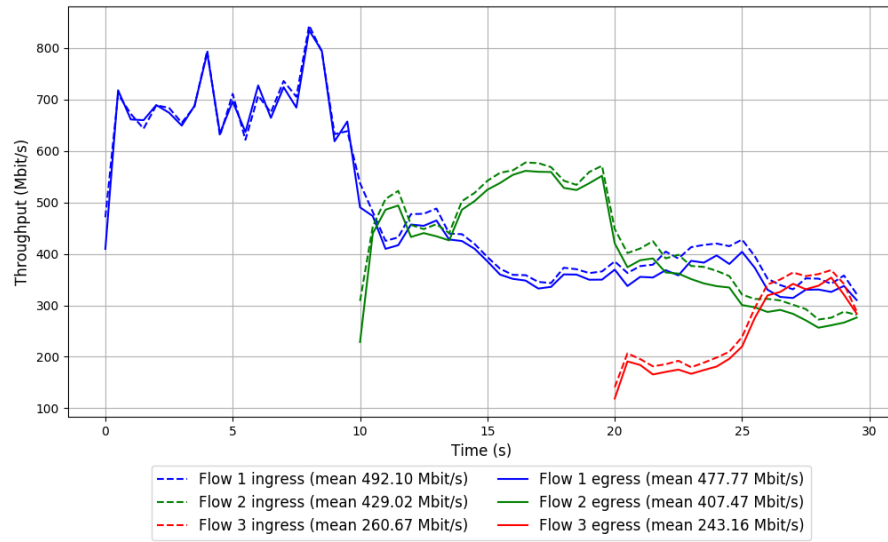
-- Flow 3:

Average throughput: 243.16 Mbit/s

95th percentile per-packet one-way delay: 20.364 ms

Loss rate: 6.72%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-03-06 20:31:15

End at: 2018-03-06 20:31:45

Local clock offset: -2.073 ms

Remote clock offset: 0.714 ms

Below is generated by plot.py at 2018-03-07 00:29:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 840.73 Mbit/s

95th percentile per-packet one-way delay: 25.262 ms

Loss rate: 4.30%

-- Flow 1:

Average throughput: 466.90 Mbit/s

95th percentile per-packet one-way delay: 29.793 ms

Loss rate: 2.74%

-- Flow 2:

Average throughput: 387.43 Mbit/s

95th percentile per-packet one-way delay: 18.504 ms

Loss rate: 5.66%

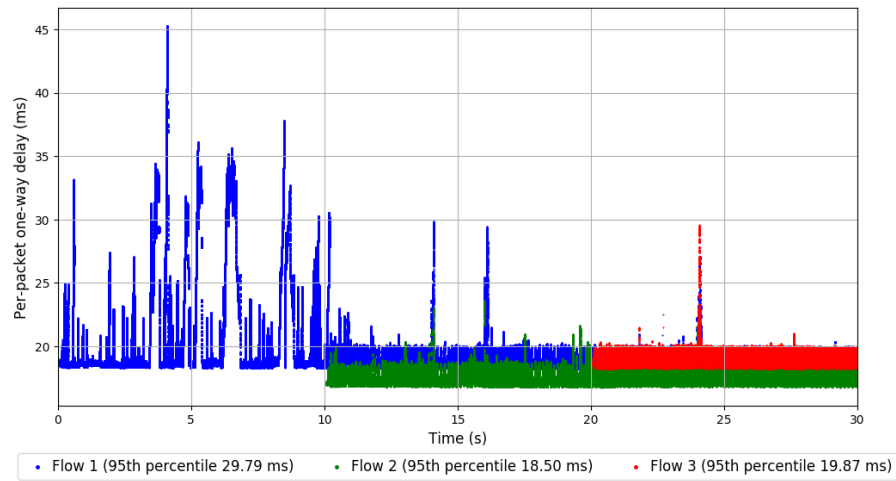
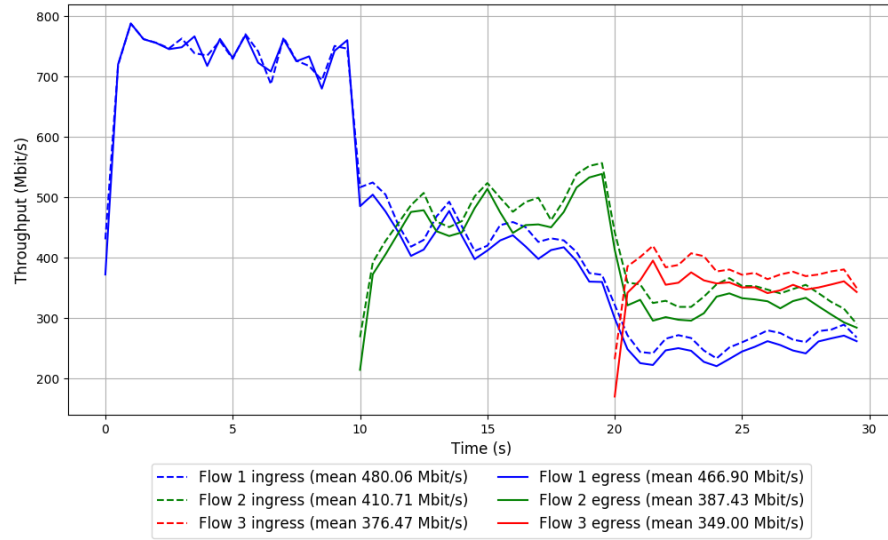
-- Flow 3:

Average throughput: 349.00 Mbit/s

95th percentile per-packet one-way delay: 19.867 ms

Loss rate: 7.30%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-03-06 21:00:43

End at: 2018-03-06 21:01:13

Local clock offset: -7.401 ms

Remote clock offset: 2.421 ms

Below is generated by plot.py at 2018-03-07 00:41:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 853.20 Mbit/s

95th percentile per-packet one-way delay: 30.461 ms

Loss rate: 3.89%

-- Flow 1:

Average throughput: 474.47 Mbit/s

95th percentile per-packet one-way delay: 32.539 ms

Loss rate: 2.66%

-- Flow 2:

Average throughput: 407.36 Mbit/s

95th percentile per-packet one-way delay: 20.628 ms

Loss rate: 4.41%

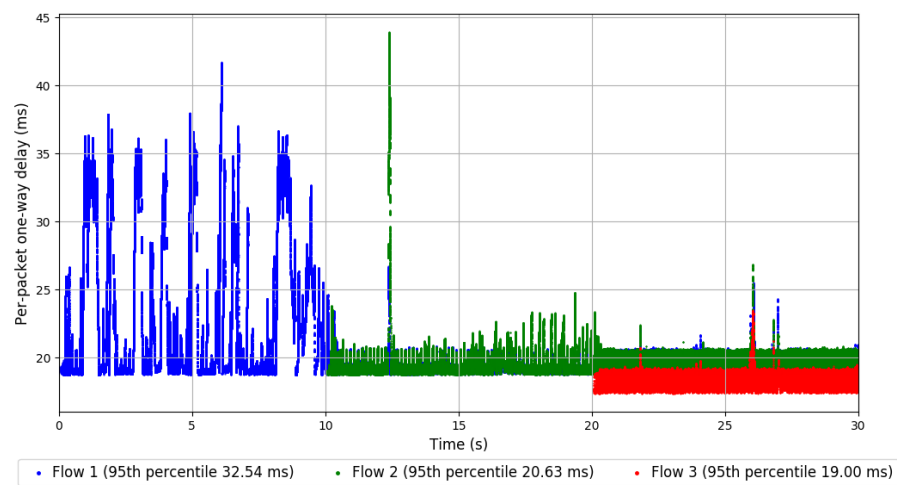
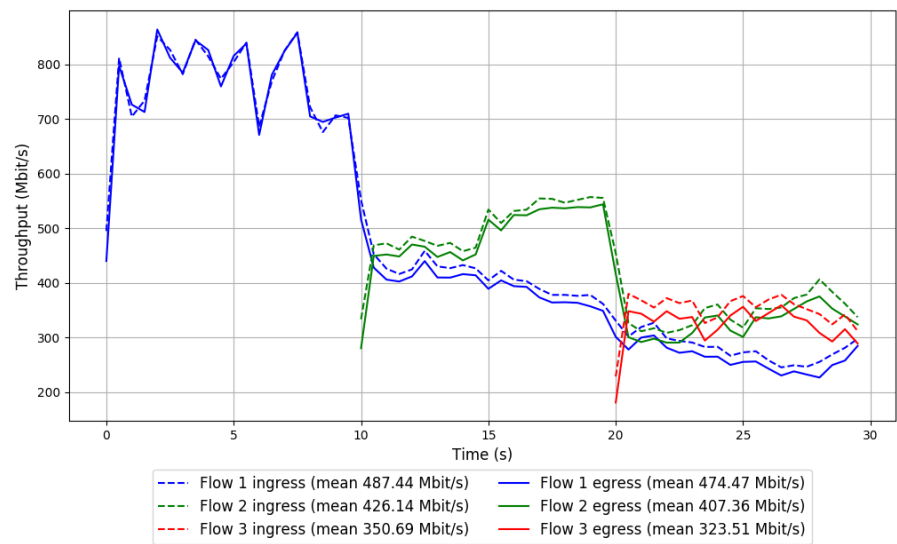
-- Flow 3:

Average throughput: 323.51 Mbit/s

95th percentile per-packet one-way delay: 18.997 ms

Loss rate: 7.75%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-03-06 21:30:20

End at: 2018-03-06 21:30:50

Local clock offset: -7.649 ms

Remote clock offset: 2.954 ms

Below is generated by plot.py at 2018-03-07 00:41:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 863.16 Mbit/s

95th percentile per-packet one-way delay: 31.677 ms

Loss rate: 4.13%

-- Flow 1:

Average throughput: 478.08 Mbit/s

95th percentile per-packet one-way delay: 32.683 ms

Loss rate: 2.86%

-- Flow 2:

Average throughput: 418.16 Mbit/s

95th percentile per-packet one-way delay: 20.206 ms

Loss rate: 4.91%

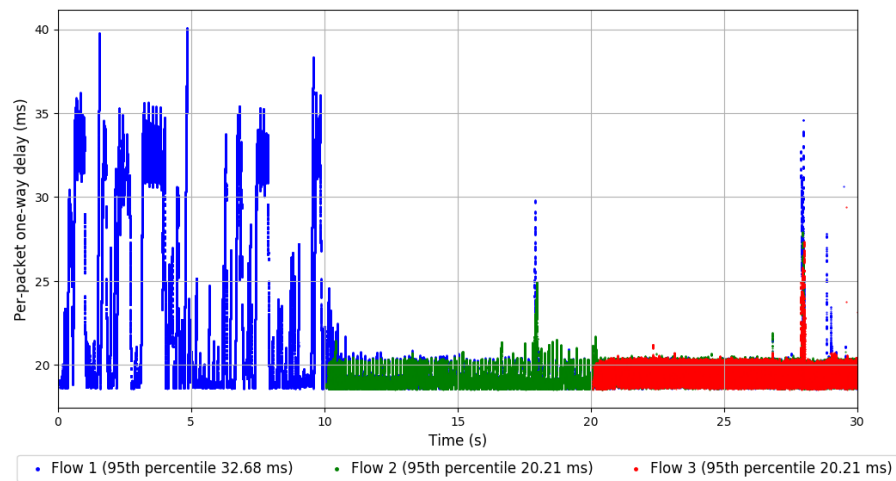
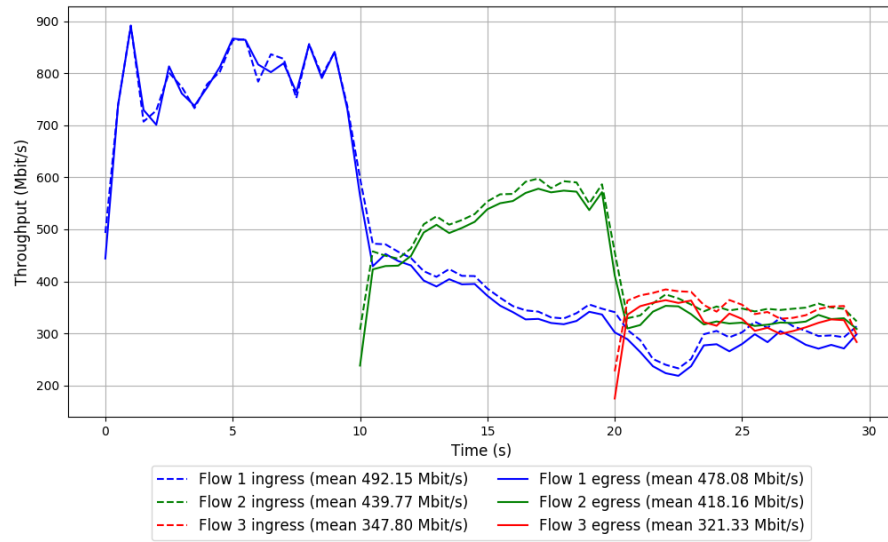
-- Flow 3:

Average throughput: 321.33 Mbit/s

95th percentile per-packet one-way delay: 20.207 ms

Loss rate: 7.58%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-03-06 16:58:11

End at: 2018-03-06 16:58:41

Local clock offset: -7.802 ms

Remote clock offset: 2.43 ms

Below is generated by plot.py at 2018-03-07 00:41:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 410.91 Mbit/s

95th percentile per-packet one-way delay: 19.513 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 289.65 Mbit/s

95th percentile per-packet one-way delay: 18.043 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 139.52 Mbit/s

95th percentile per-packet one-way delay: 19.712 ms

Loss rate: 0.11%

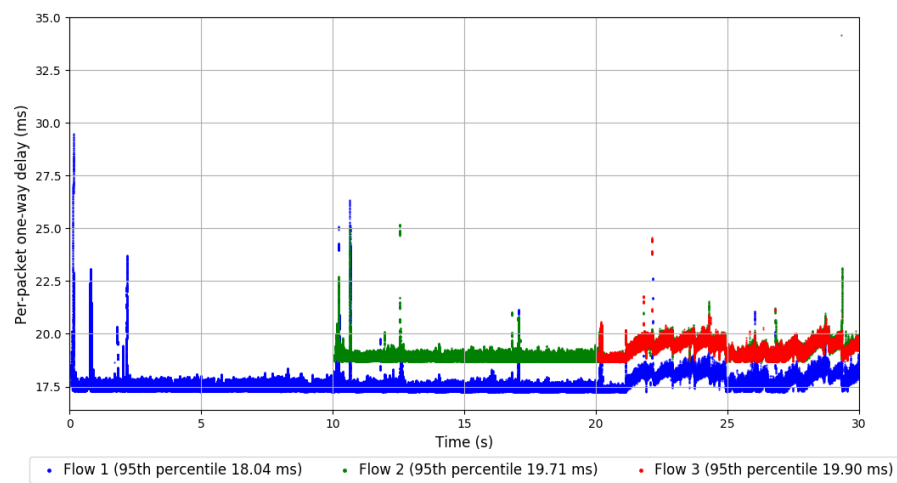
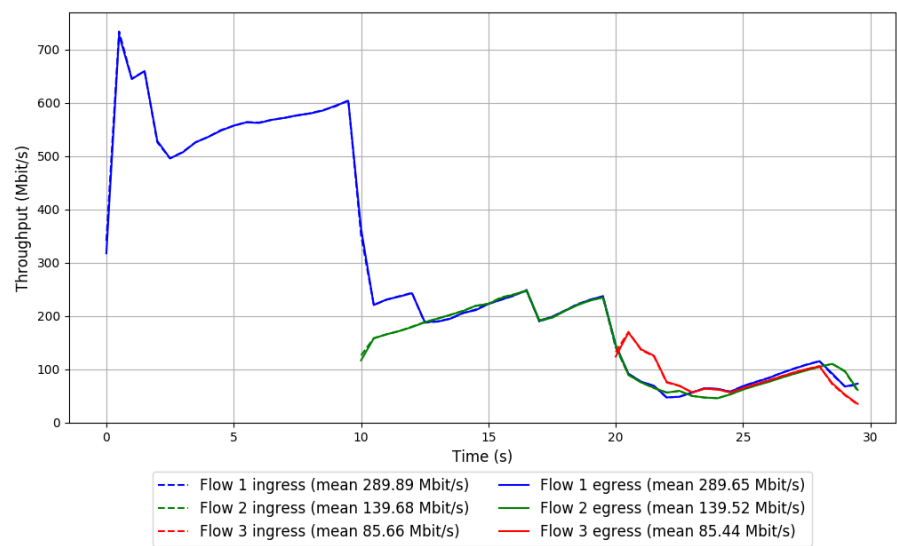
-- Flow 3:

Average throughput: 85.44 Mbit/s

95th percentile per-packet one-way delay: 19.899 ms

Loss rate: 0.25%

Run 1: Report of TCP Cubic — Data Link

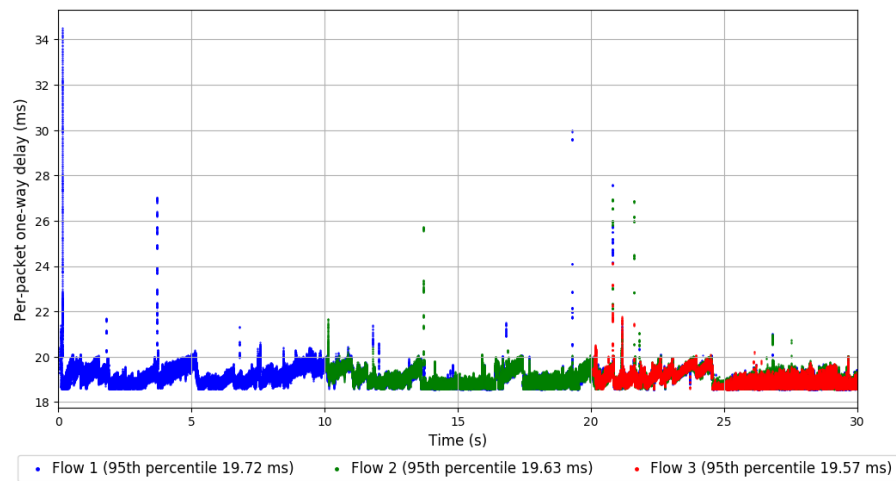
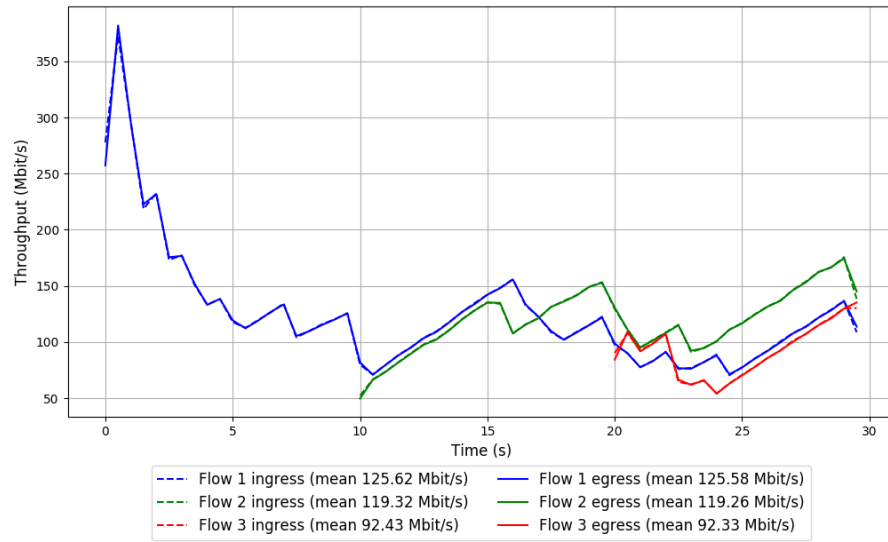


Run 2: Statistics of TCP Cubic

Start at: 2018-03-06 17:28:29
End at: 2018-03-06 17:28:59
Local clock offset: -10.242 ms
Remote clock offset: 1.241 ms

Below is generated by plot.py at 2018-03-07 00:41:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 235.65 Mbit/s
95th percentile per-packet one-way delay: 19.680 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 125.58 Mbit/s
95th percentile per-packet one-way delay: 19.720 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 119.26 Mbit/s
95th percentile per-packet one-way delay: 19.629 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 92.33 Mbit/s
95th percentile per-packet one-way delay: 19.572 ms
Loss rate: 0.11%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-03-06 17:58:12

End at: 2018-03-06 17:58:42

Local clock offset: -6.47 ms

Remote clock offset: 0.96 ms

Below is generated by plot.py at 2018-03-07 00:41:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 315.23 Mbit/s

95th percentile per-packet one-way delay: 19.827 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 224.22 Mbit/s

95th percentile per-packet one-way delay: 19.851 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 84.99 Mbit/s

95th percentile per-packet one-way delay: 18.429 ms

Loss rate: 0.07%

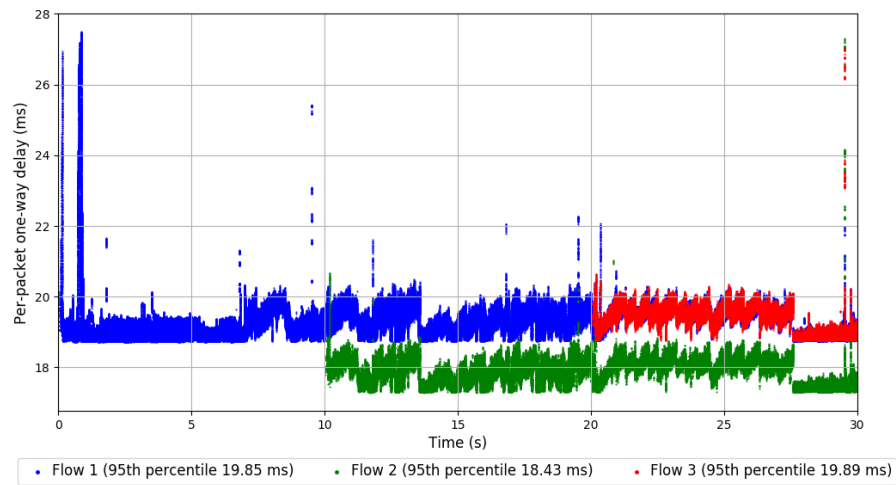
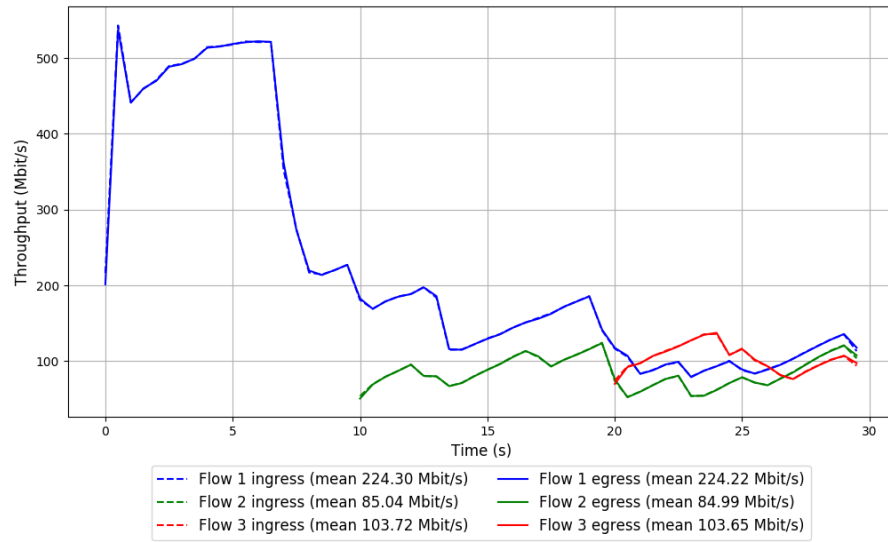
-- Flow 3:

Average throughput: 103.65 Mbit/s

95th percentile per-packet one-way delay: 19.891 ms

Loss rate: 0.07%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-03-06 18:28:12

End at: 2018-03-06 18:28:42

Local clock offset: 1.173 ms

Remote clock offset: 2.021 ms

Below is generated by plot.py at 2018-03-07 00:41:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 243.08 Mbit/s

95th percentile per-packet one-way delay: 19.798 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 158.50 Mbit/s

95th percentile per-packet one-way delay: 19.829 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 75.96 Mbit/s

95th percentile per-packet one-way delay: 19.737 ms

Loss rate: 0.02%

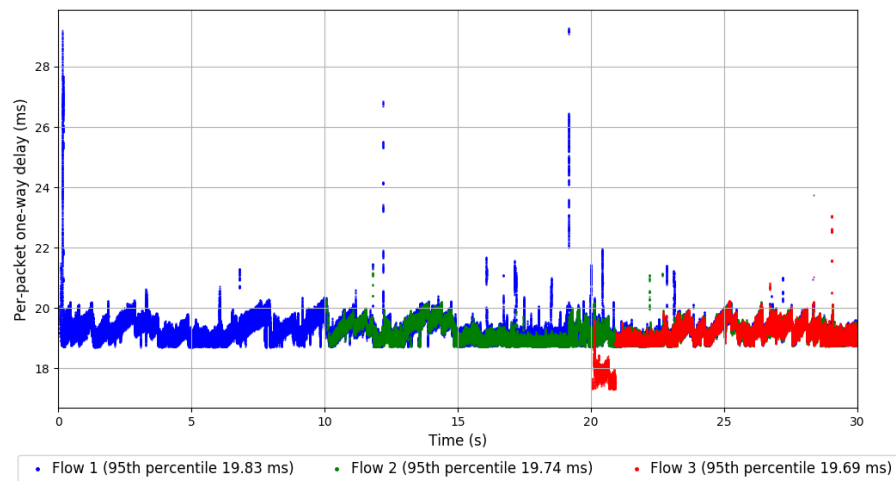
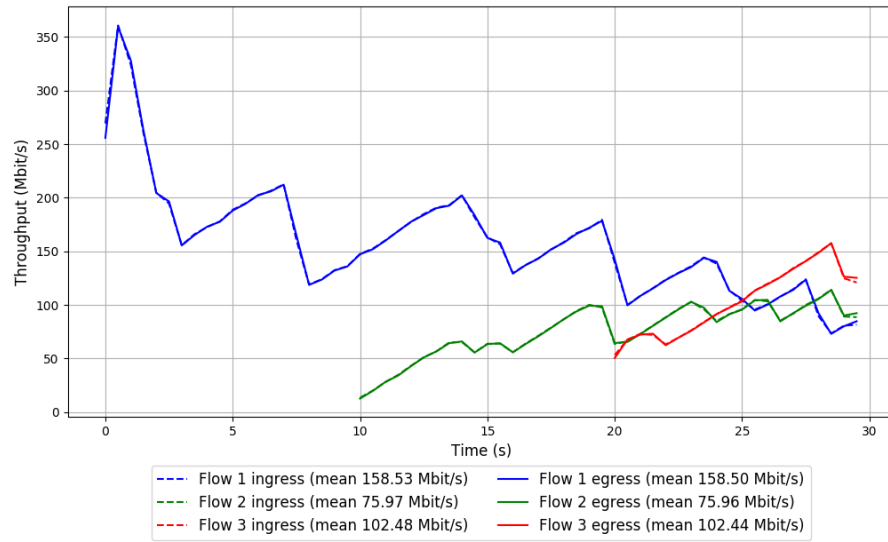
-- Flow 3:

Average throughput: 102.44 Mbit/s

95th percentile per-packet one-way delay: 19.686 ms

Loss rate: 0.02%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-03-06 18:57:50

End at: 2018-03-06 18:58:20

Local clock offset: -4.384 ms

Remote clock offset: 2.456 ms

Below is generated by plot.py at 2018-03-07 00:41:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 378.71 Mbit/s

95th percentile per-packet one-way delay: 20.600 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 276.63 Mbit/s

95th percentile per-packet one-way delay: 21.107 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 112.99 Mbit/s

95th percentile per-packet one-way delay: 19.618 ms

Loss rate: 0.11%

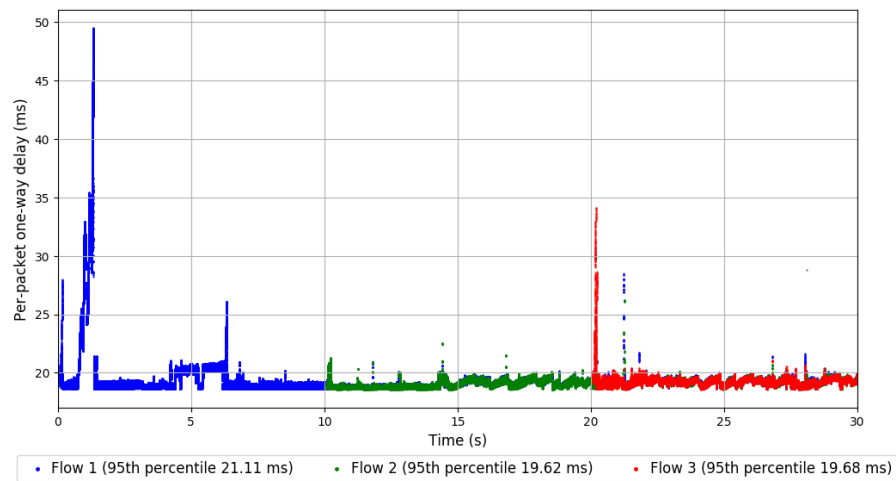
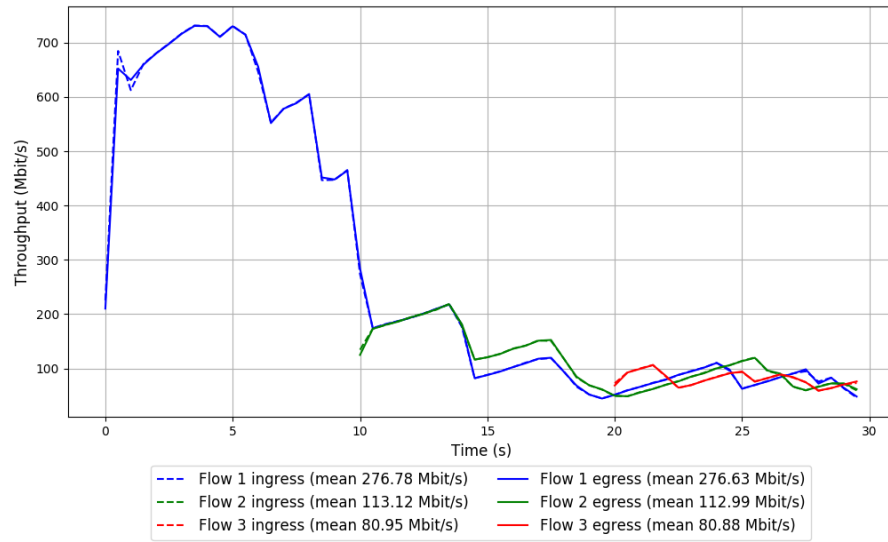
-- Flow 3:

Average throughput: 80.88 Mbit/s

95th percentile per-packet one-way delay: 19.677 ms

Loss rate: 0.09%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-03-06 19:27:26

End at: 2018-03-06 19:27:56

Local clock offset: -3.319 ms

Remote clock offset: 0.896 ms

Below is generated by plot.py at 2018-03-07 00:41:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 233.12 Mbit/s

95th percentile per-packet one-way delay: 19.914 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 103.68 Mbit/s

95th percentile per-packet one-way delay: 19.553 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 172.93 Mbit/s

95th percentile per-packet one-way delay: 22.072 ms

Loss rate: 0.14%

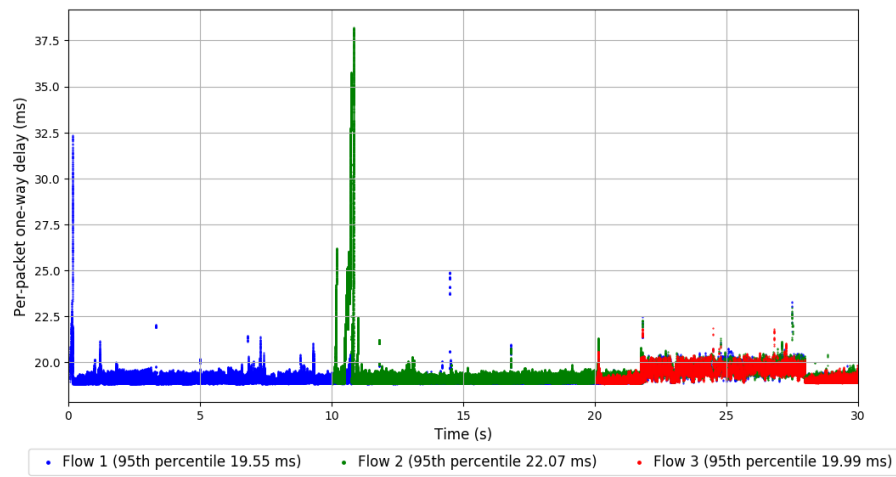
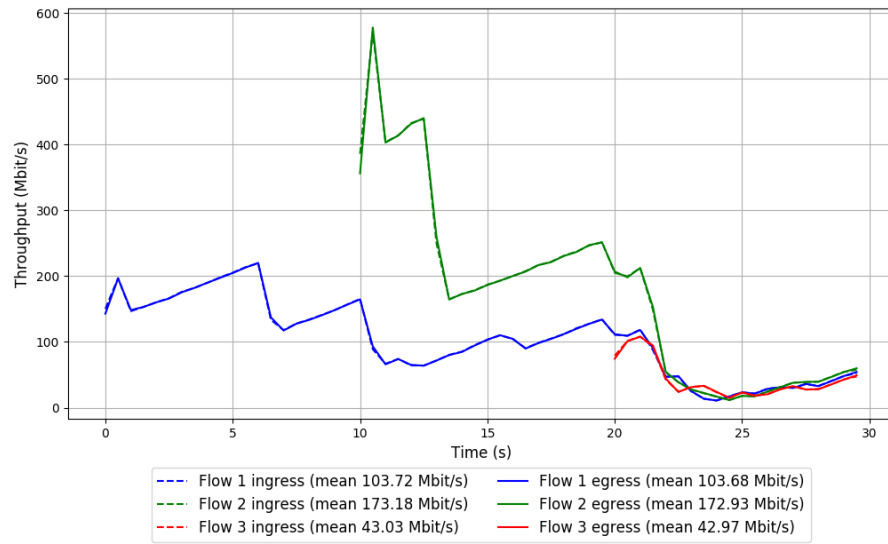
-- Flow 3:

Average throughput: 42.97 Mbit/s

95th percentile per-packet one-way delay: 19.987 ms

Loss rate: 0.15%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-03-06 19:56:35

End at: 2018-03-06 19:57:05

Local clock offset: -0.756 ms

Remote clock offset: 0.923 ms

Below is generated by plot.py at 2018-03-07 00:41:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 238.11 Mbit/s

95th percentile per-packet one-way delay: 19.131 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 108.31 Mbit/s

95th percentile per-packet one-way delay: 19.148 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 115.97 Mbit/s

95th percentile per-packet one-way delay: 19.103 ms

Loss rate: 0.02%

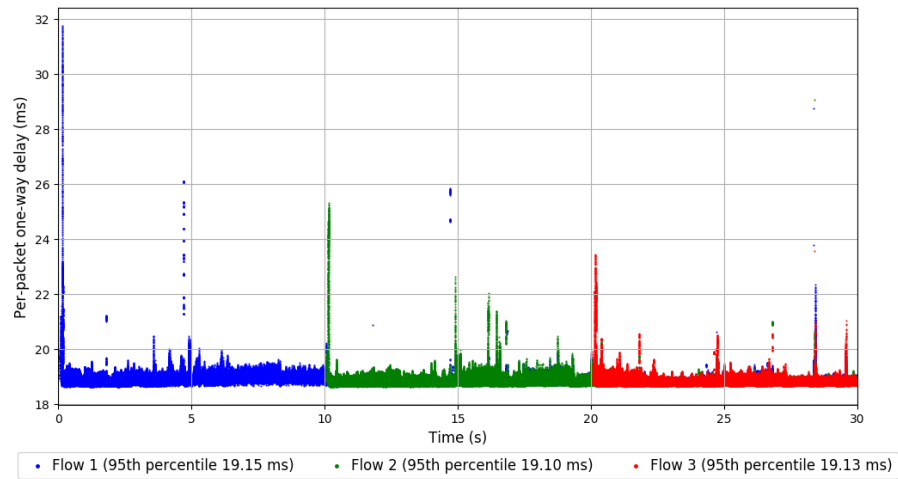
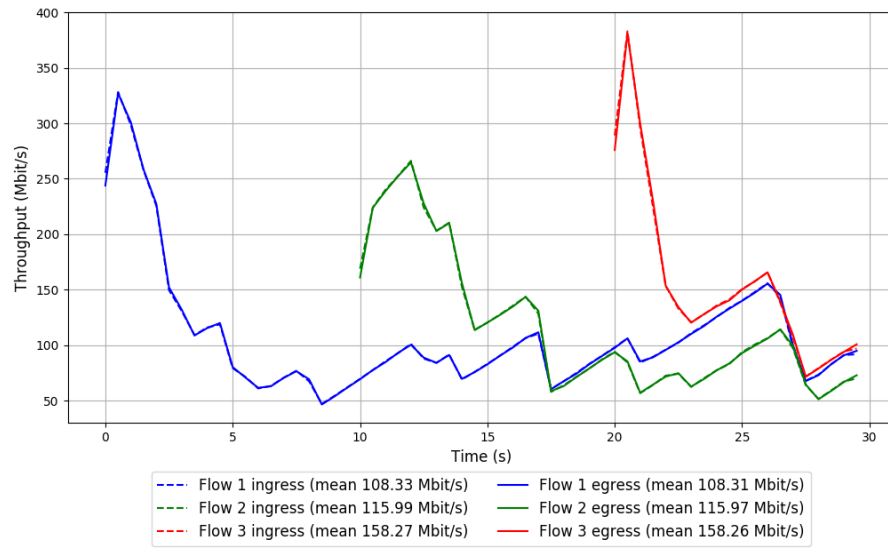
-- Flow 3:

Average throughput: 158.26 Mbit/s

95th percentile per-packet one-way delay: 19.128 ms

Loss rate: 0.01%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-03-06 20:26:23

End at: 2018-03-06 20:26:53

Local clock offset: 0.351 ms

Remote clock offset: 0.775 ms

Below is generated by plot.py at 2018-03-07 00:41:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 434.13 Mbit/s

95th percentile per-packet one-way delay: 18.530 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 240.50 Mbit/s

95th percentile per-packet one-way delay: 17.547 ms

Loss rate: 0.11%

-- Flow 2:

Average throughput: 179.66 Mbit/s

95th percentile per-packet one-way delay: 18.563 ms

Loss rate: 0.08%

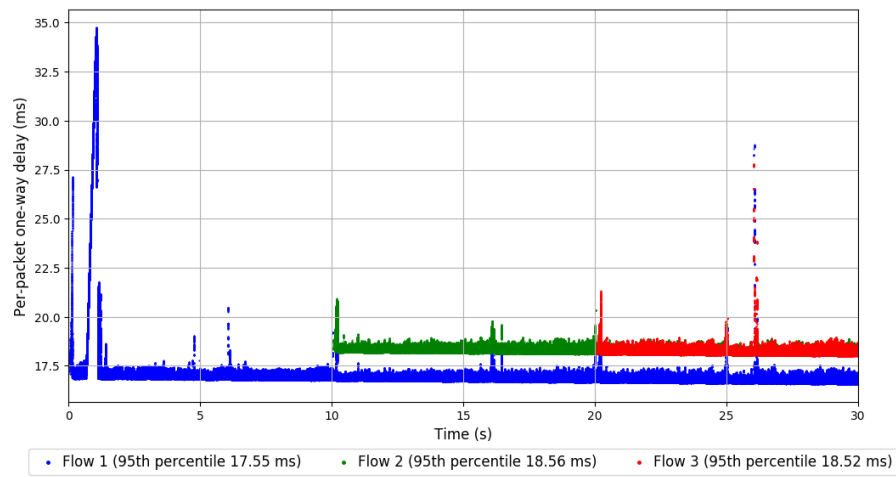
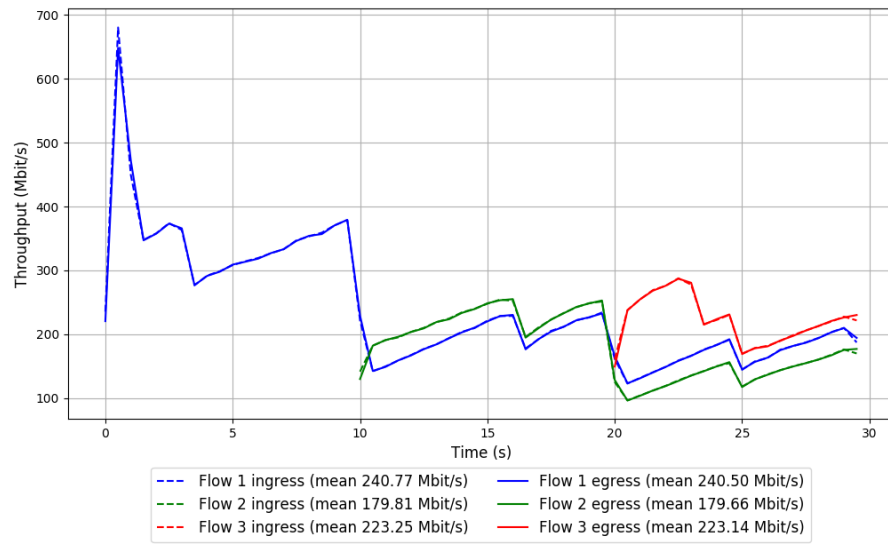
-- Flow 3:

Average throughput: 223.14 Mbit/s

95th percentile per-packet one-way delay: 18.524 ms

Loss rate: 0.05%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-03-06 20:55:49

End at: 2018-03-06 20:56:19

Local clock offset: -7.066 ms

Remote clock offset: 2.392 ms

Below is generated by plot.py at 2018-03-07 00:41:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 392.10 Mbit/s

95th percentile per-packet one-way delay: 19.082 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 205.77 Mbit/s

95th percentile per-packet one-way delay: 19.116 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 178.40 Mbit/s

95th percentile per-packet one-way delay: 18.986 ms

Loss rate: 0.09%

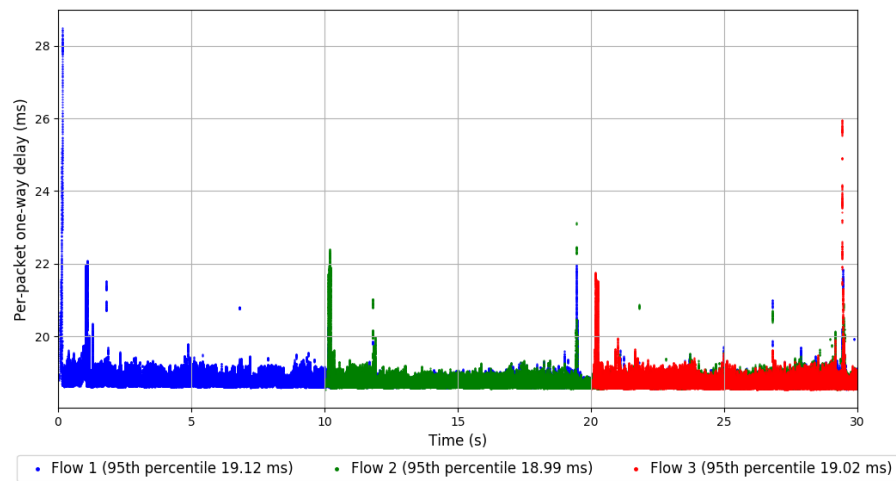
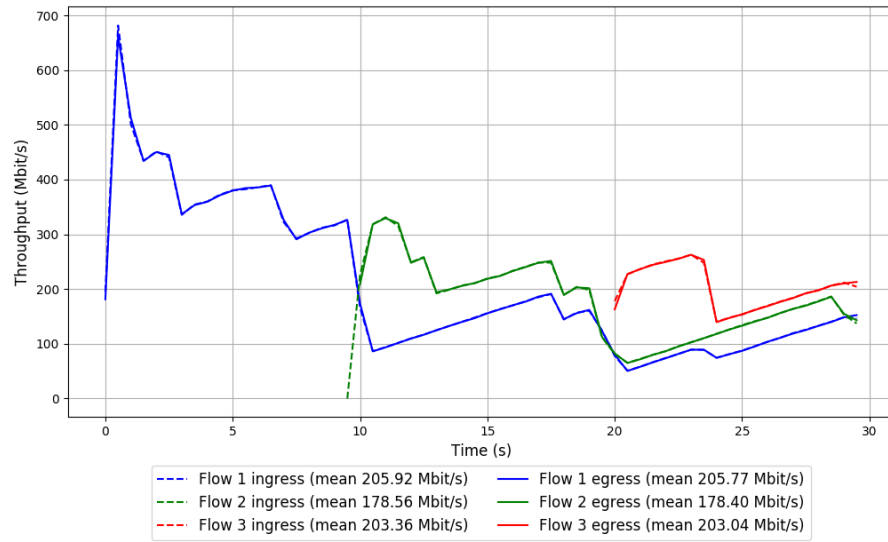
-- Flow 3:

Average throughput: 203.04 Mbit/s

95th percentile per-packet one-way delay: 19.018 ms

Loss rate: 0.15%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-03-06 21:25:19

End at: 2018-03-06 21:25:49

Local clock offset: -7.319 ms

Remote clock offset: 2.839 ms

Below is generated by plot.py at 2018-03-07 00:41:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 555.20 Mbit/s

95th percentile per-packet one-way delay: 19.100 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 361.63 Mbit/s

95th percentile per-packet one-way delay: 19.346 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 199.78 Mbit/s

95th percentile per-packet one-way delay: 18.970 ms

Loss rate: 0.10%

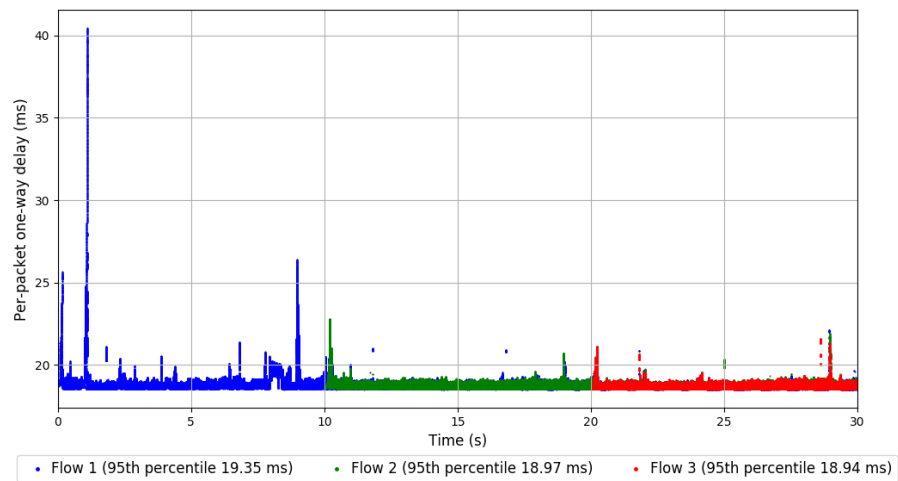
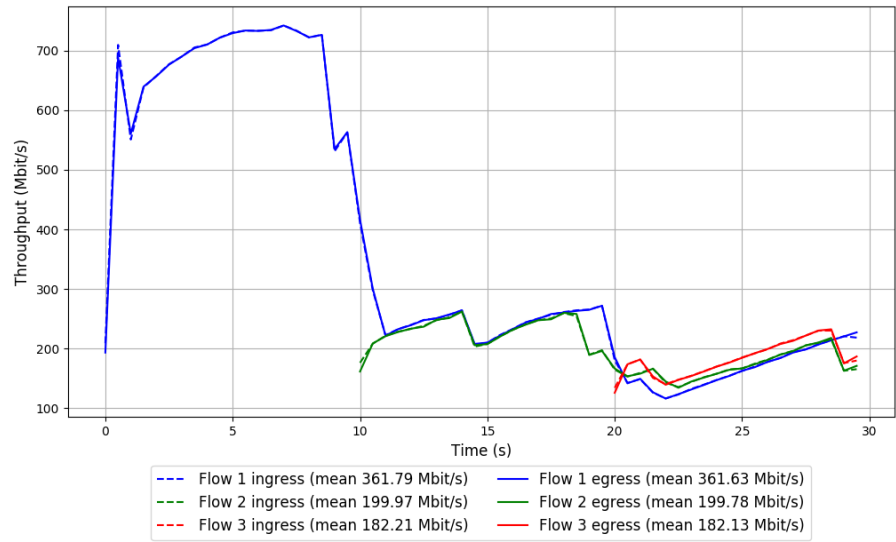
-- Flow 3:

Average throughput: 182.13 Mbit/s

95th percentile per-packet one-way delay: 18.938 ms

Loss rate: 0.04%

Run 10: Report of TCP Cubic — Data Link

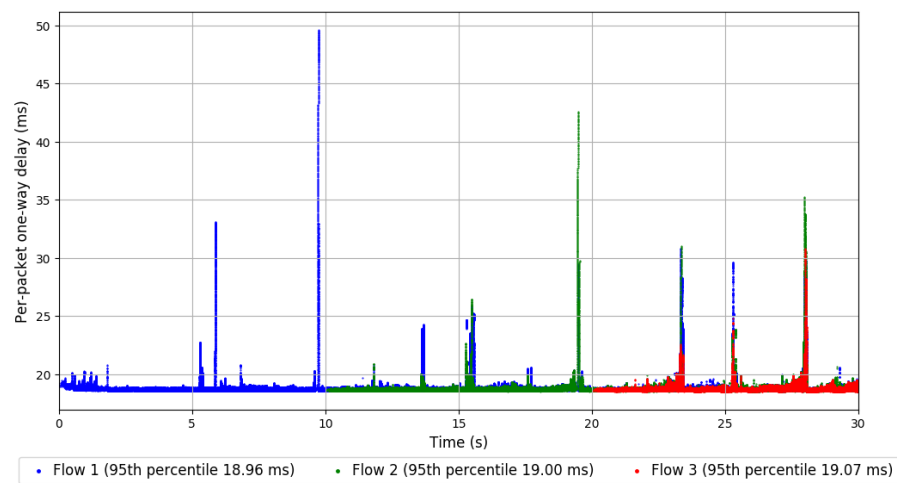
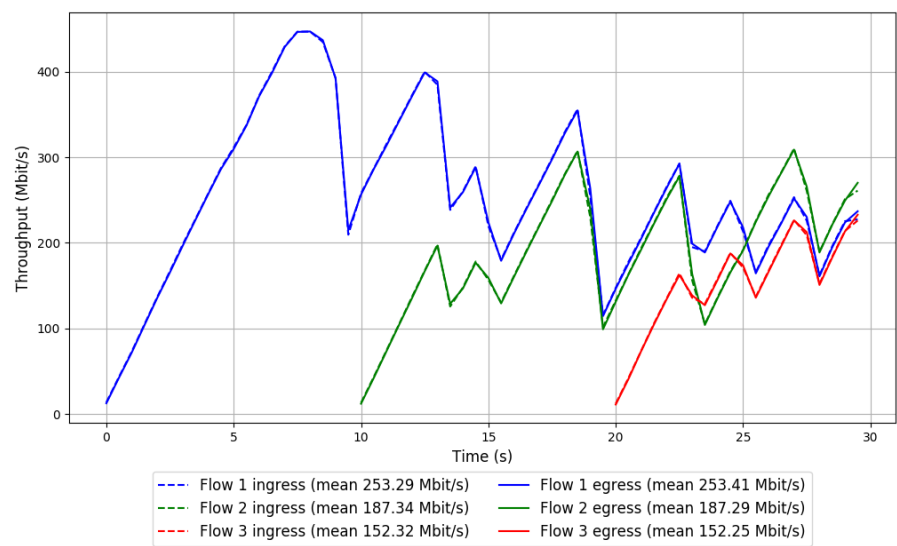


```
Run 1: Statistics of LEDBAT

Start at: 2018-03-06 16:50:18
End at: 2018-03-06 16:50:48
Local clock offset: -6.936 ms
Remote clock offset: 2.253 ms

# Below is generated by plot.py at 2018-03-07 00:41:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 428.58 Mbit/s
95th percentile per-packet one-way delay: 18.986 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 253.41 Mbit/s
95th percentile per-packet one-way delay: 18.959 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 187.29 Mbit/s
95th percentile per-packet one-way delay: 19.003 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 152.25 Mbit/s
95th percentile per-packet one-way delay: 19.069 ms
Loss rate: 0.06%
```


Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2018-03-06 17:20:34

End at: 2018-03-06 17:21:04

Local clock offset: -9.613 ms

Remote clock offset: 1.521 ms

Below is generated by plot.py at 2018-03-07 00:42:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 502.90 Mbit/s

95th percentile per-packet one-way delay: 19.075 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 291.07 Mbit/s

95th percentile per-packet one-way delay: 19.027 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 217.91 Mbit/s

95th percentile per-packet one-way delay: 19.077 ms

Loss rate: 0.02%

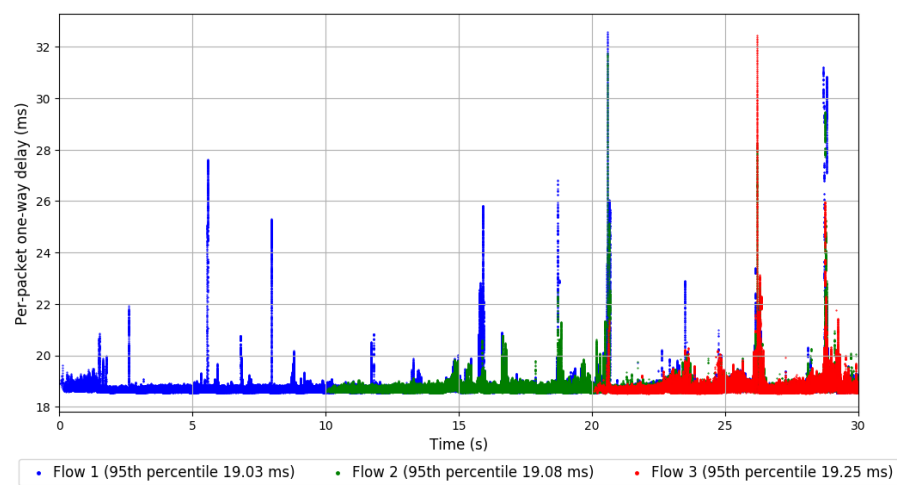
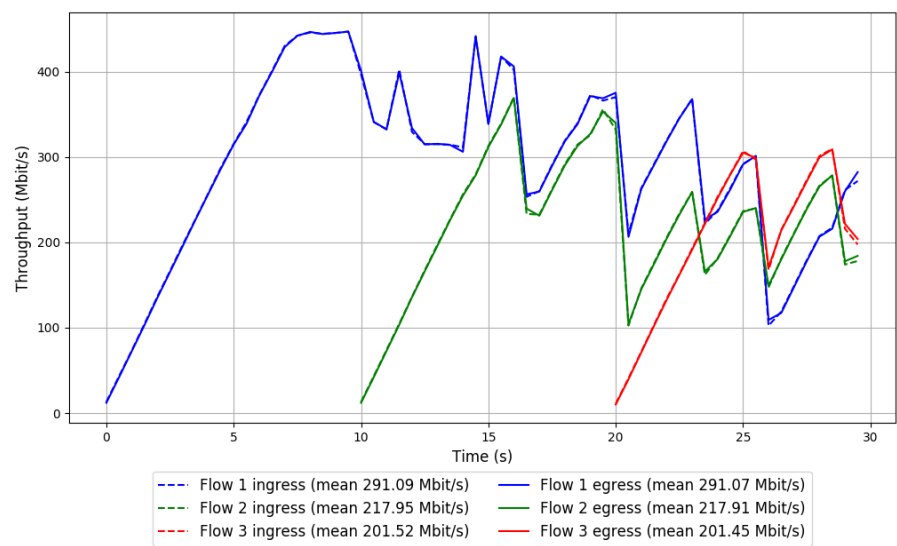
-- Flow 3:

Average throughput: 201.45 Mbit/s

95th percentile per-packet one-way delay: 19.246 ms

Loss rate: 0.04%

Run 2: Report of LEDBAT — Data Link

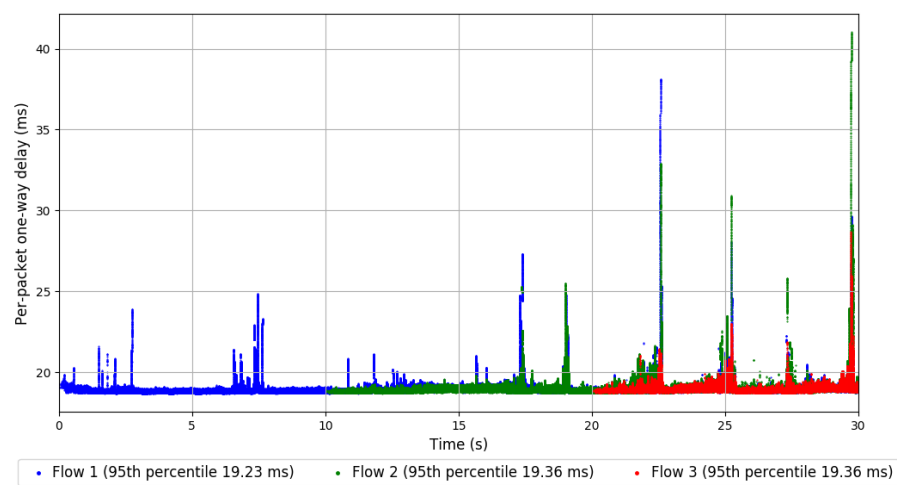
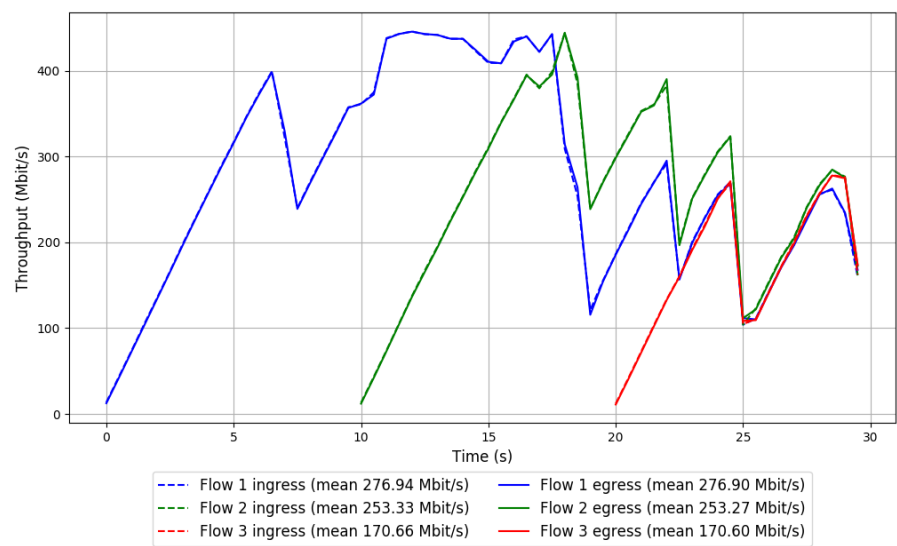


Run 3: Statistics of LEDBAT

Start at: 2018-03-06 17:50:15
End at: 2018-03-06 17:50:45
Local clock offset: -6.904 ms
Remote clock offset: 0.952 ms

Below is generated by plot.py at 2018-03-07 00:43:04
Datalink statistics
-- Total of 3 flows:
Average throughput: 502.13 Mbit/s
95th percentile per-packet one-way delay: 19.286 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 276.90 Mbit/s
95th percentile per-packet one-way delay: 19.226 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 253.27 Mbit/s
95th percentile per-packet one-way delay: 19.358 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 170.60 Mbit/s
95th percentile per-packet one-way delay: 19.363 ms
Loss rate: 0.04%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-03-06 18:20:22

End at: 2018-03-06 18:20:52

Local clock offset: -0.821 ms

Remote clock offset: 1.019 ms

Below is generated by plot.py at 2018-03-07 00:44:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 406.38 Mbit/s

95th percentile per-packet one-way delay: 19.294 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 262.63 Mbit/s

95th percentile per-packet one-way delay: 17.986 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 156.08 Mbit/s

95th percentile per-packet one-way delay: 19.428 ms

Loss rate: 0.07%

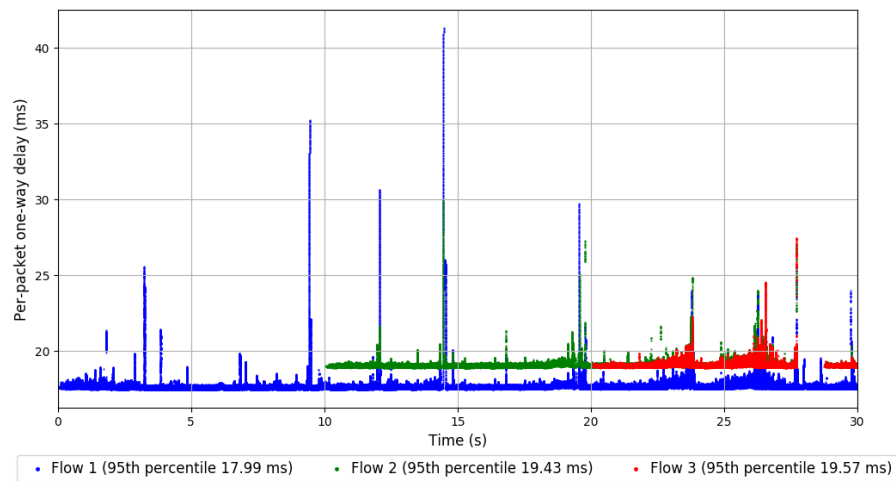
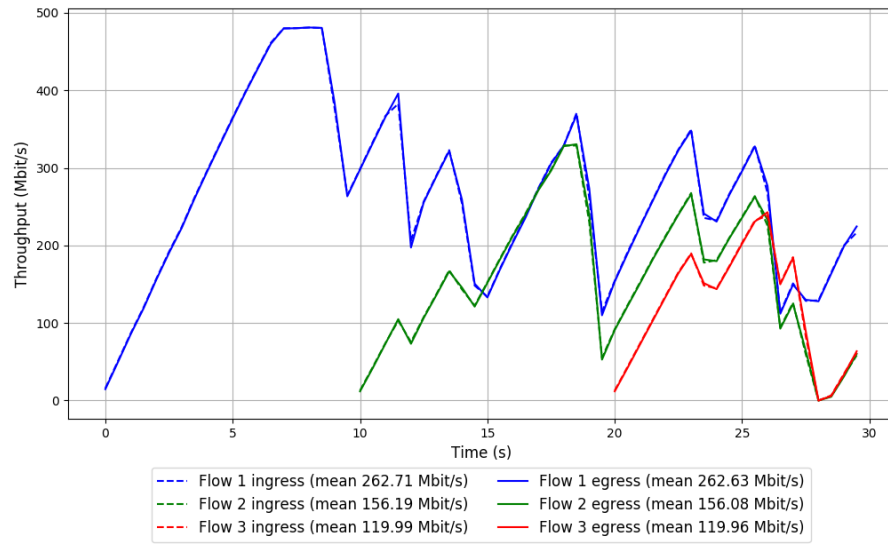
-- Flow 3:

Average throughput: 119.96 Mbit/s

95th percentile per-packet one-way delay: 19.573 ms

Loss rate: 0.04%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-03-06 18:49:57

End at: 2018-03-06 18:50:27

Local clock offset: -1.641 ms

Remote clock offset: 2.972 ms

Below is generated by plot.py at 2018-03-07 00:44:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 402.24 Mbit/s

95th percentile per-packet one-way delay: 18.501 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 218.41 Mbit/s

95th percentile per-packet one-way delay: 18.539 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 201.18 Mbit/s

95th percentile per-packet one-way delay: 17.178 ms

Loss rate: 0.04%

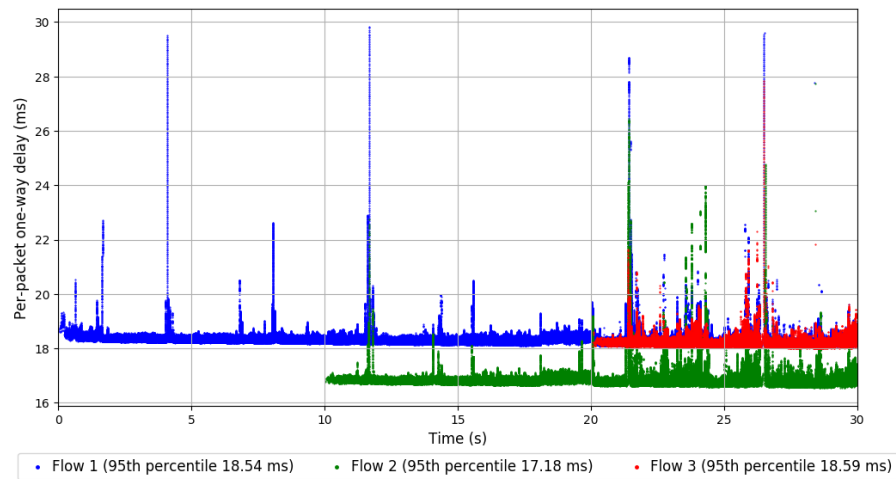
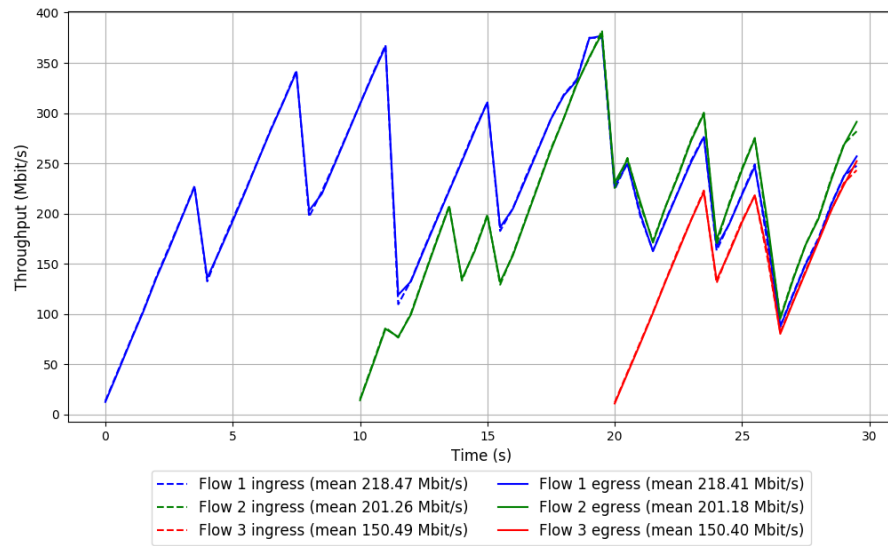
-- Flow 3:

Average throughput: 150.40 Mbit/s

95th percentile per-packet one-way delay: 18.588 ms

Loss rate: 0.05%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-03-06 19:19:44

End at: 2018-03-06 19:20:14

Local clock offset: -5.37 ms

Remote clock offset: 1.071 ms

Below is generated by plot.py at 2018-03-07 00:46:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 359.78 Mbit/s

95th percentile per-packet one-way delay: 19.538 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 198.37 Mbit/s

95th percentile per-packet one-way delay: 19.521 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 168.88 Mbit/s

95th percentile per-packet one-way delay: 19.523 ms

Loss rate: 0.12%

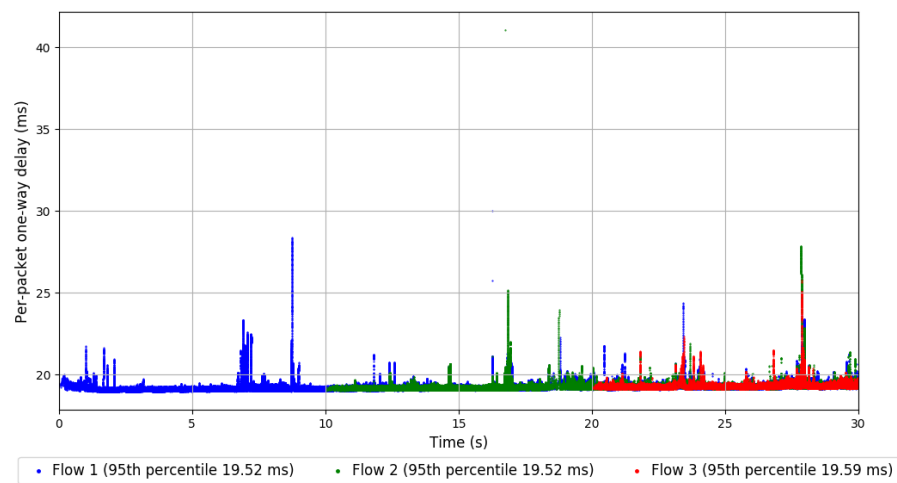
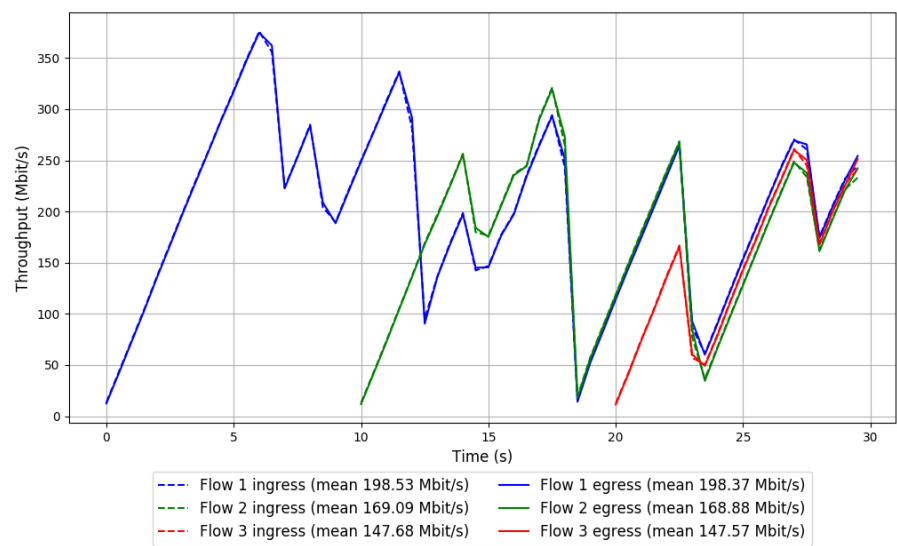
-- Flow 3:

Average throughput: 147.57 Mbit/s

95th percentile per-packet one-way delay: 19.594 ms

Loss rate: 0.07%

Run 6: Report of LEDBAT — Data Link

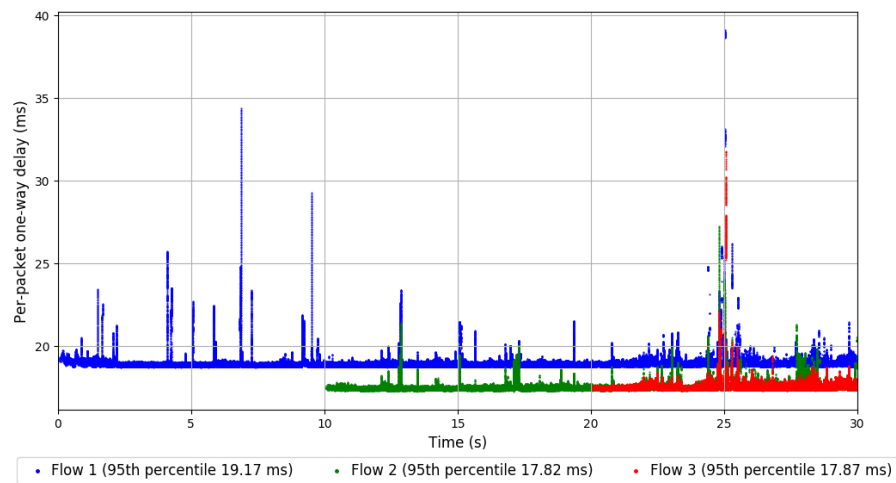
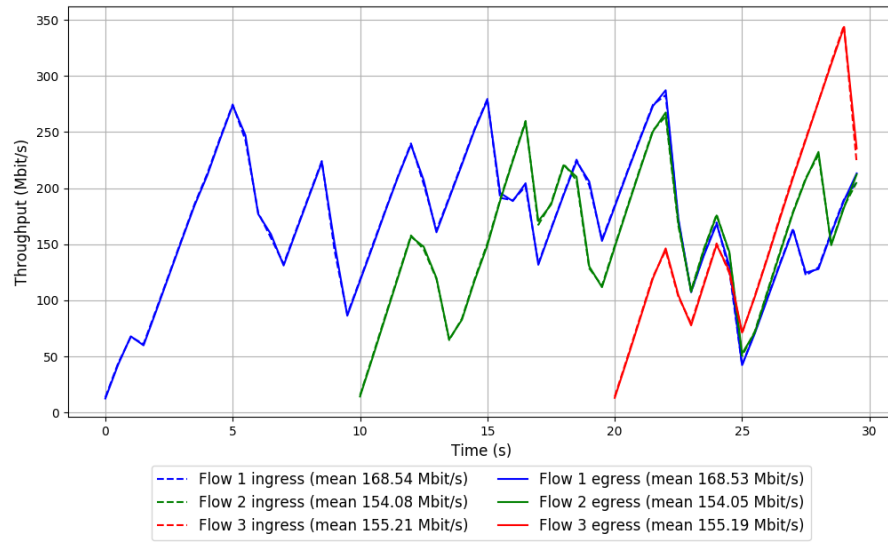


Run 7: Statistics of LEDBAT

Start at: 2018-03-06 19:48:55
End at: 2018-03-06 19:49:25
Local clock offset: -1.283 ms
Remote clock offset: 1.018 ms

Below is generated by plot.py at 2018-03-07 00:46:10
Datalink statistics
-- Total of 3 flows:
Average throughput: 322.62 Mbit/s
95th percentile per-packet one-way delay: 19.072 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 168.53 Mbit/s
95th percentile per-packet one-way delay: 19.170 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 154.05 Mbit/s
95th percentile per-packet one-way delay: 17.817 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 155.19 Mbit/s
95th percentile per-packet one-way delay: 17.867 ms
Loss rate: 0.01%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-03-06 20:18:27

End at: 2018-03-06 20:18:57

Local clock offset: 0.486 ms

Remote clock offset: 0.849 ms

Below is generated by plot.py at 2018-03-07 00:46:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 305.62 Mbit/s

95th percentile per-packet one-way delay: 19.383 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 194.09 Mbit/s

95th percentile per-packet one-way delay: 18.137 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 132.61 Mbit/s

95th percentile per-packet one-way delay: 19.574 ms

Loss rate: 0.06%

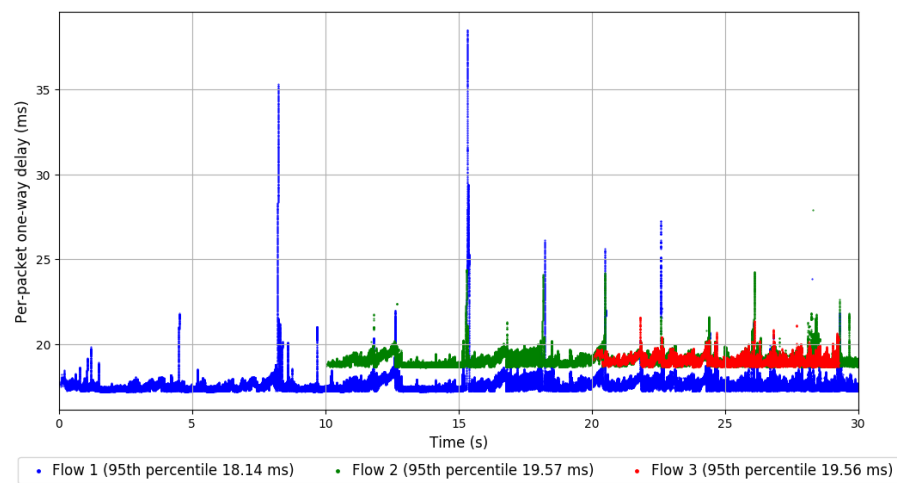
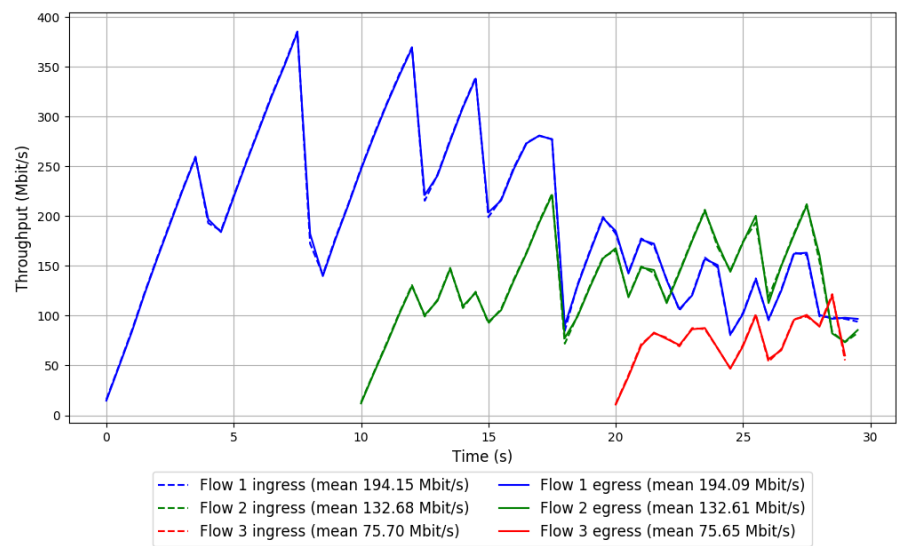
-- Flow 3:

Average throughput: 75.65 Mbit/s

95th percentile per-packet one-way delay: 19.559 ms

Loss rate: 0.07%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-03-06 20:48:07

End at: 2018-03-06 20:48:37

Local clock offset: -6.195 ms

Remote clock offset: 2.11 ms

Below is generated by plot.py at 2018-03-07 00:46:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 354.72 Mbit/s

95th percentile per-packet one-way delay: 19.655 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 223.55 Mbit/s

95th percentile per-packet one-way delay: 19.530 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 151.53 Mbit/s

95th percentile per-packet one-way delay: 19.696 ms

Loss rate: 0.10%

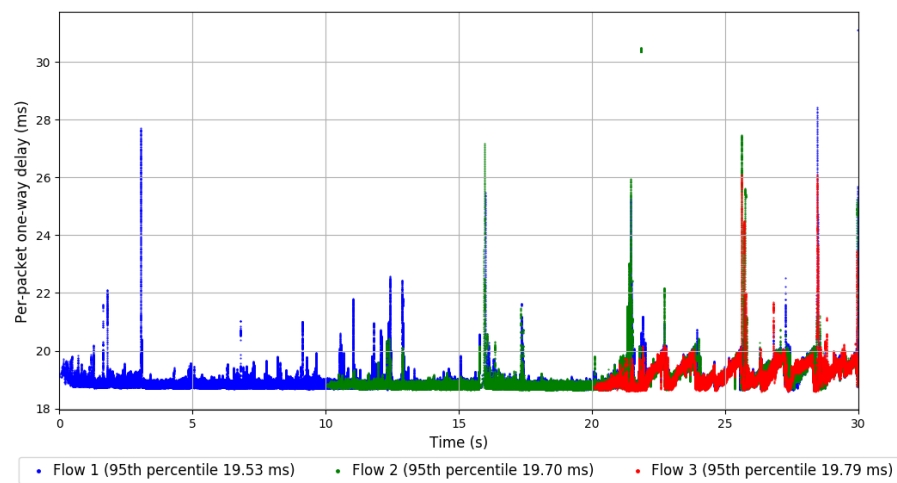
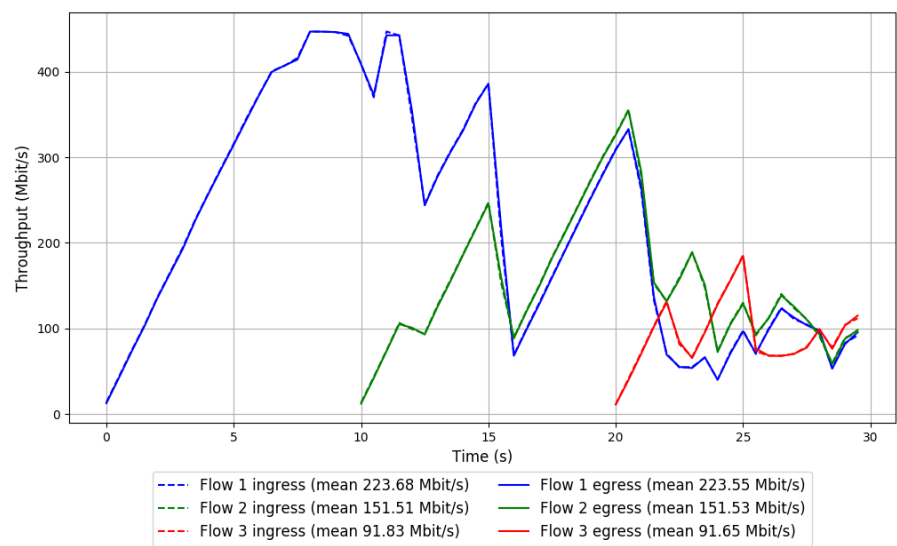
-- Flow 3:

Average throughput: 91.65 Mbit/s

95th percentile per-packet one-way delay: 19.792 ms

Loss rate: 0.19%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-03-06 21:17:27

End at: 2018-03-06 21:17:57

Local clock offset: -6.911 ms

Remote clock offset: 2.793 ms

Below is generated by plot.py at 2018-03-07 00:48:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 467.70 Mbit/s

95th percentile per-packet one-way delay: 19.178 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 268.67 Mbit/s

95th percentile per-packet one-way delay: 19.159 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 230.20 Mbit/s

95th percentile per-packet one-way delay: 19.312 ms

Loss rate: 0.04%

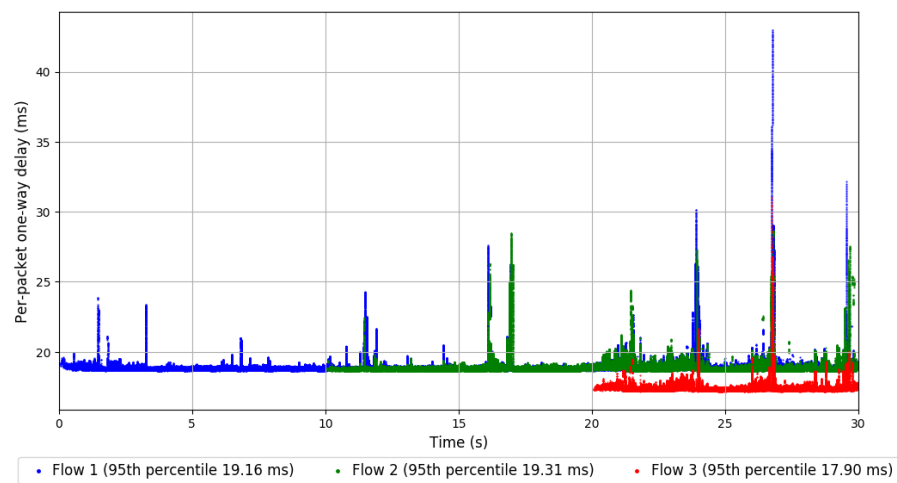
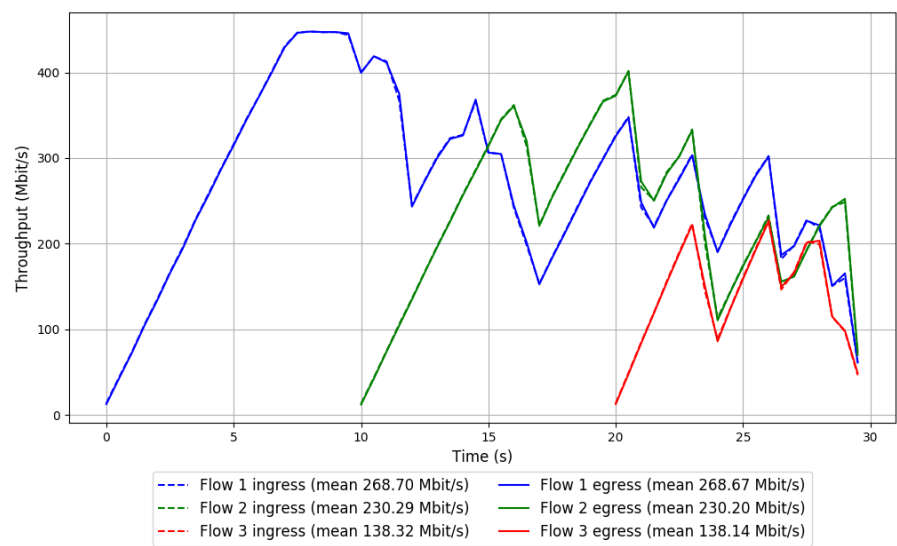
-- Flow 3:

Average throughput: 138.14 Mbit/s

95th percentile per-packet one-way delay: 17.902 ms

Loss rate: 0.13%

Run 10: Report of LEDBAT — Data Link

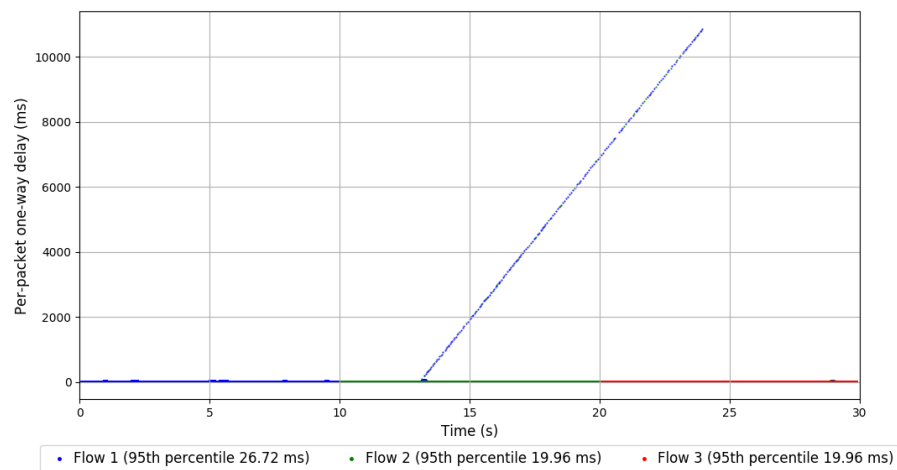
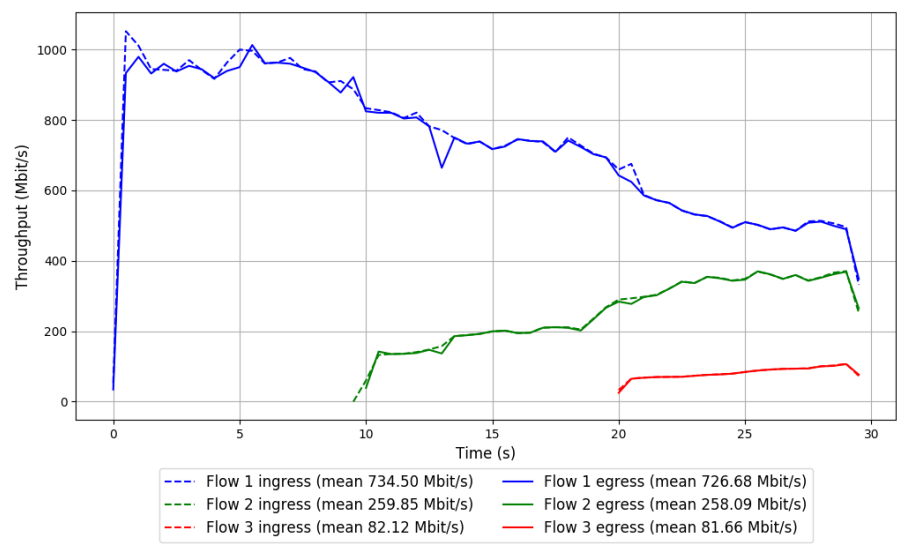


```
Run 1: Statistics of PCC

Start at: 2018-03-06 16:46:44
End at: 2018-03-06 16:47:14
Local clock offset: -6.547 ms
Remote clock offset: 2.095 ms

# Below is generated by plot.py at 2018-03-07 00:56:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 925.25 Mbit/s
95th percentile per-packet one-way delay: 24.092 ms
Loss rate: 0.98%
-- Flow 1:
Average throughput: 726.68 Mbit/s
95th percentile per-packet one-way delay: 26.720 ms
Loss rate: 1.07%
-- Flow 2:
Average throughput: 258.09 Mbit/s
95th percentile per-packet one-way delay: 19.956 ms
Loss rate: 0.68%
-- Flow 3:
Average throughput: 81.66 Mbit/s
95th percentile per-packet one-way delay: 19.959 ms
Loss rate: 0.58%
```

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2018-03-06 17:16:44

End at: 2018-03-06 17:17:14

Local clock offset: -9.279 ms

Remote clock offset: 1.812 ms

Below is generated by plot.py at 2018-03-07 00:57:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 917.22 Mbit/s

95th percentile per-packet one-way delay: 28.574 ms

Loss rate: 0.87%

-- Flow 1:

Average throughput: 883.69 Mbit/s

95th percentile per-packet one-way delay: 29.217 ms

Loss rate: 0.90%

-- Flow 2:

Average throughput: 32.76 Mbit/s

95th percentile per-packet one-way delay: 19.805 ms

Loss rate: 0.14%

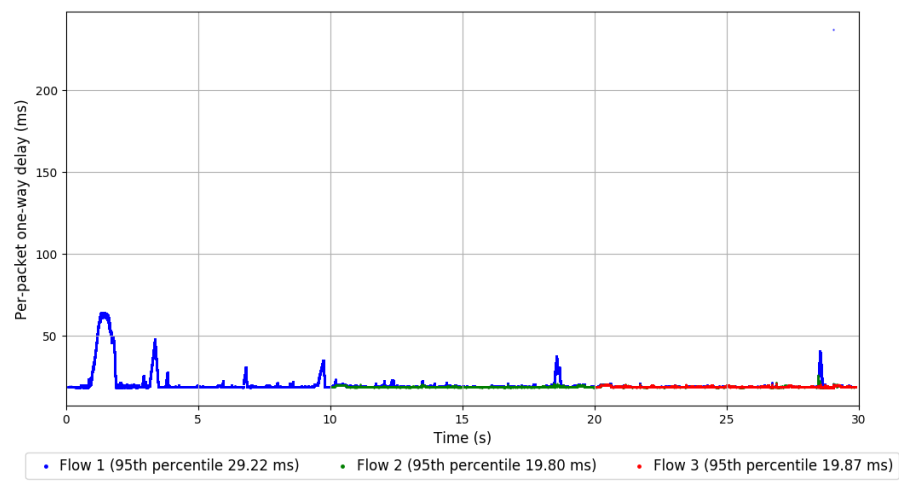
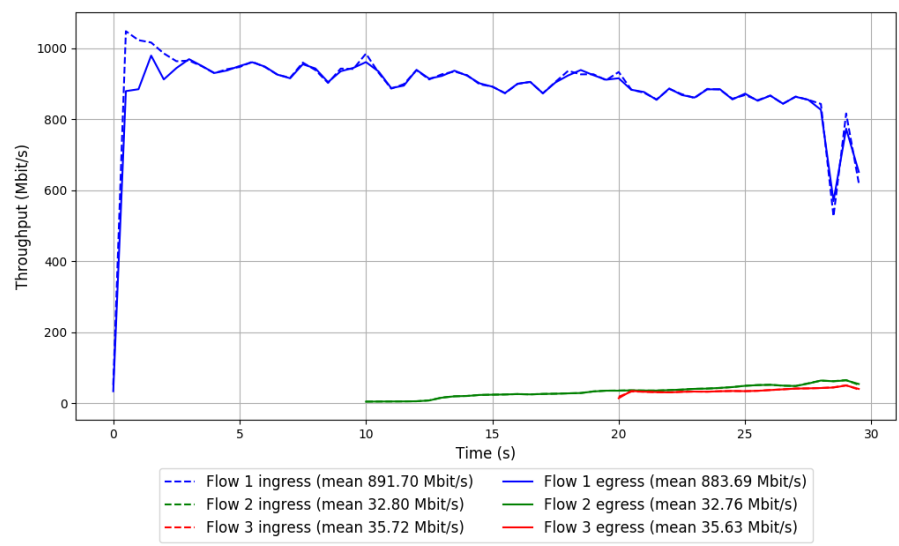
-- Flow 3:

Average throughput: 35.63 Mbit/s

95th percentile per-packet one-way delay: 19.870 ms

Loss rate: 0.26%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2018-03-06 17:46:38

End at: 2018-03-06 17:47:08

Local clock offset: -7.364 ms

Remote clock offset: 0.97 ms

Below is generated by plot.py at 2018-03-07 00:58:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 930.70 Mbit/s

95th percentile per-packet one-way delay: 20.417 ms

Loss rate: 0.38%

-- Flow 1:

Average throughput: 874.86 Mbit/s

95th percentile per-packet one-way delay: 20.432 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 75.24 Mbit/s

95th percentile per-packet one-way delay: 20.257 ms

Loss rate: 0.46%

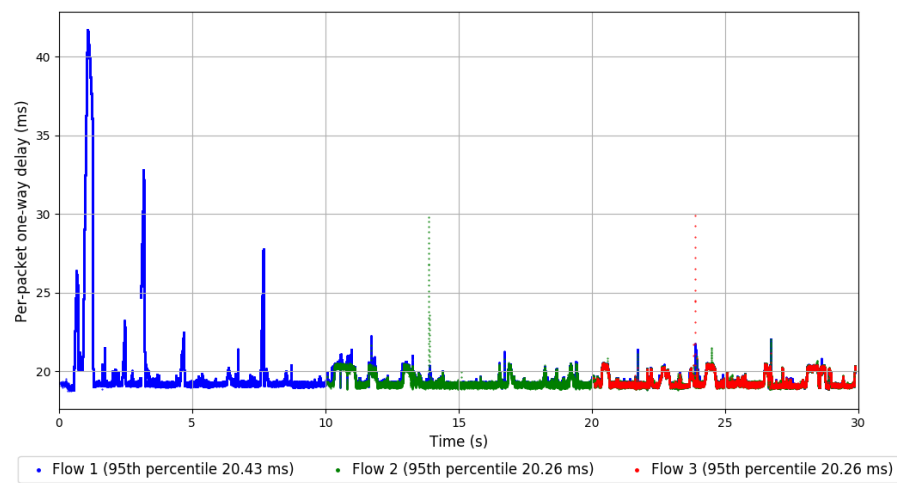
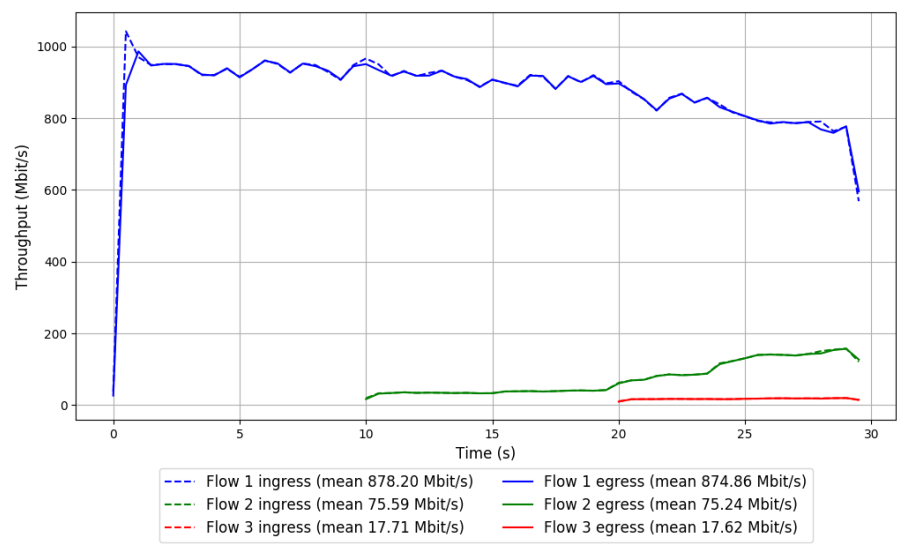
-- Flow 3:

Average throughput: 17.62 Mbit/s

95th percentile per-packet one-way delay: 20.264 ms

Loss rate: 0.55%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2018-03-06 18:16:36

End at: 2018-03-06 18:17:06

Local clock offset: -1.978 ms

Remote clock offset: 0.807 ms

Below is generated by plot.py at 2018-03-07 00:58:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 875.87 Mbit/s

95th percentile per-packet one-way delay: 20.469 ms

Loss rate: 0.37%

-- Flow 1:

Average throughput: 695.39 Mbit/s

95th percentile per-packet one-way delay: 20.468 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 229.34 Mbit/s

95th percentile per-packet one-way delay: 20.465 ms

Loss rate: 0.28%

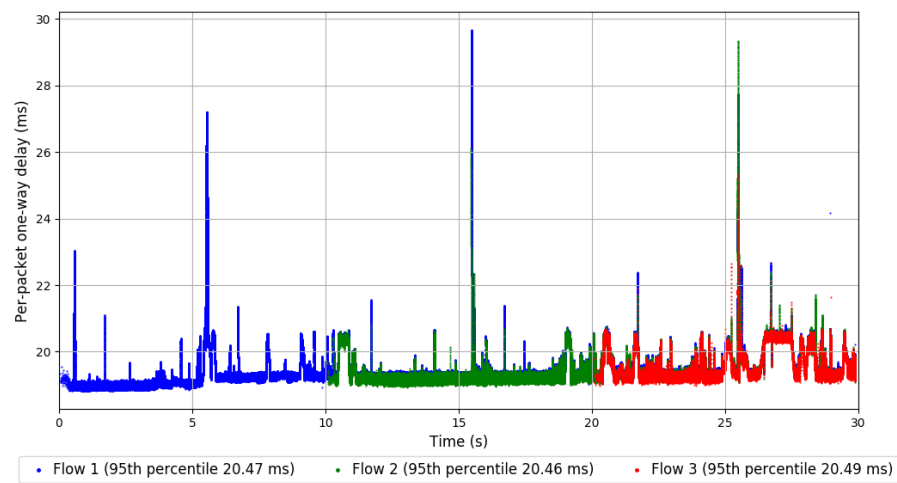
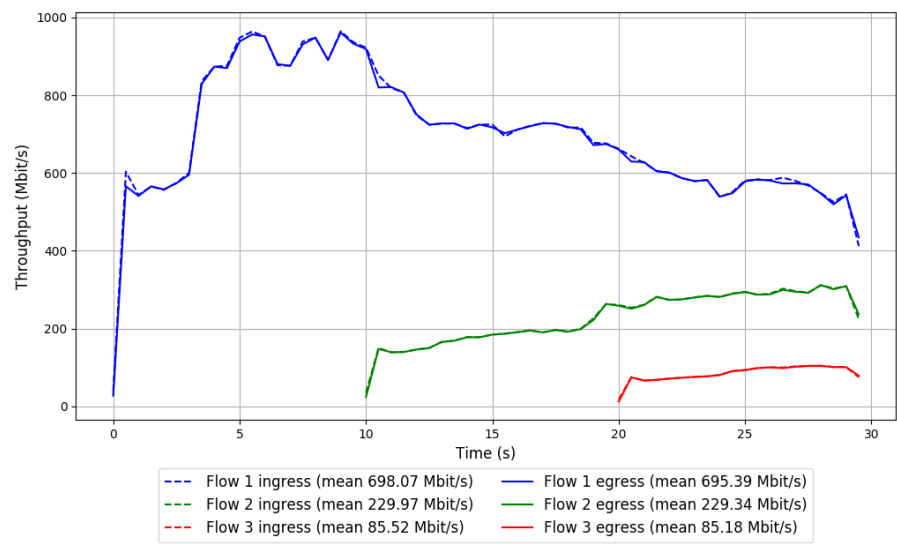
-- Flow 3:

Average throughput: 85.18 Mbit/s

95th percentile per-packet one-way delay: 20.488 ms

Loss rate: 0.41%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2018-03-06 18:46:21

End at: 2018-03-06 18:46:51

Local clock offset: 0.719 ms

Remote clock offset: 2.883 ms

Below is generated by plot.py at 2018-03-07 00:59:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 924.89 Mbit/s

95th percentile per-packet one-way delay: 26.073 ms

Loss rate: 0.48%

-- Flow 1:

Average throughput: 816.37 Mbit/s

95th percentile per-packet one-way delay: 28.182 ms

Loss rate: 0.45%

-- Flow 2:

Average throughput: 119.86 Mbit/s

95th percentile per-packet one-way delay: 19.282 ms

Loss rate: 0.57%

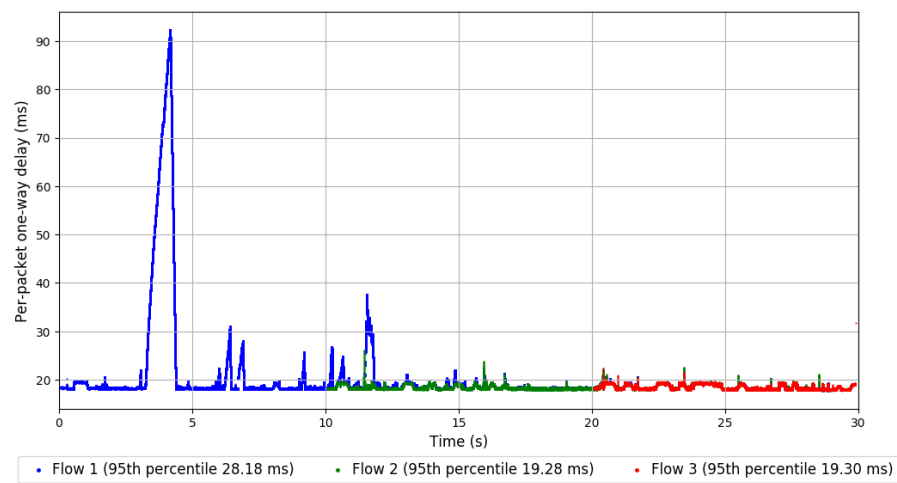
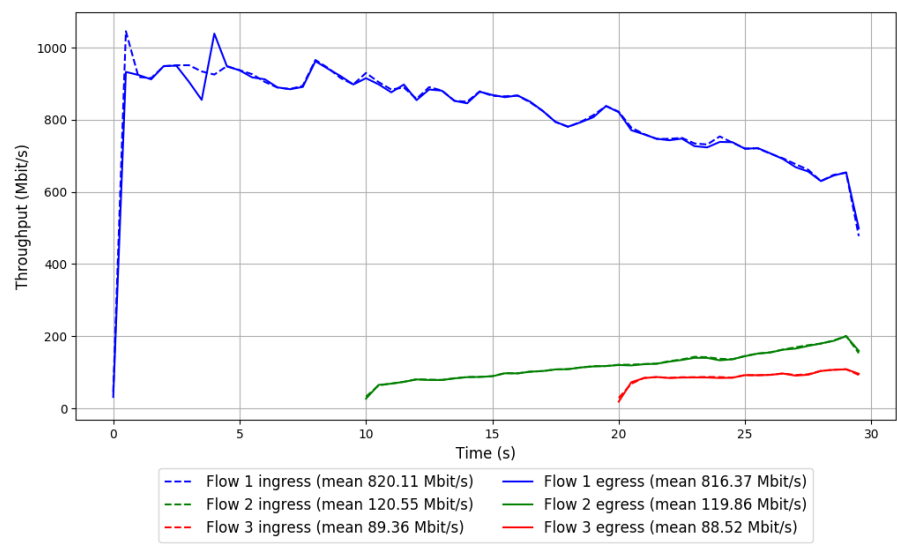
-- Flow 3:

Average throughput: 88.52 Mbit/s

95th percentile per-packet one-way delay: 19.296 ms

Loss rate: 0.80%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2018-03-06 19:16:08

End at: 2018-03-06 19:16:38

Local clock offset: -6.159 ms

Remote clock offset: 1.221 ms

Below is generated by plot.py at 2018-03-07 00:59:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 871.33 Mbit/s

95th percentile per-packet one-way delay: 20.086 ms

Loss rate: 0.23%

-- Flow 1:

Average throughput: 782.50 Mbit/s

95th percentile per-packet one-way delay: 20.090 ms

Loss rate: 0.21%

-- Flow 2:

Average throughput: 113.76 Mbit/s

95th percentile per-packet one-way delay: 20.036 ms

Loss rate: 0.39%

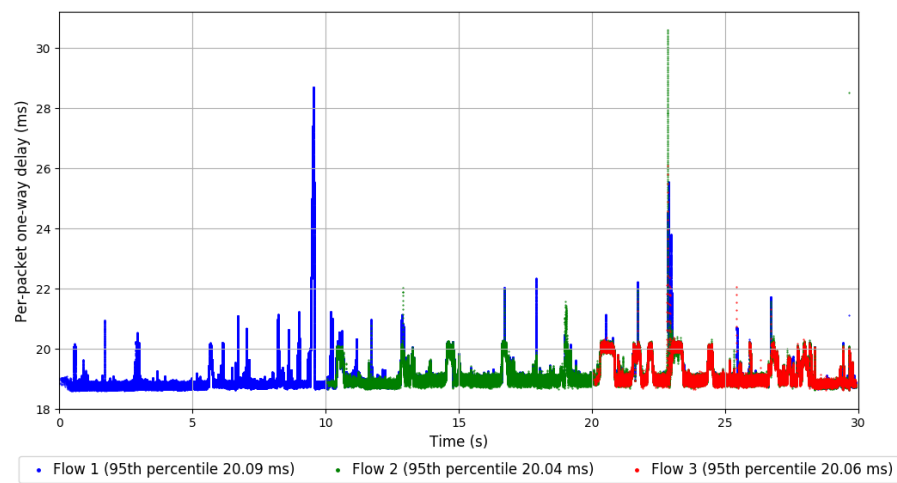
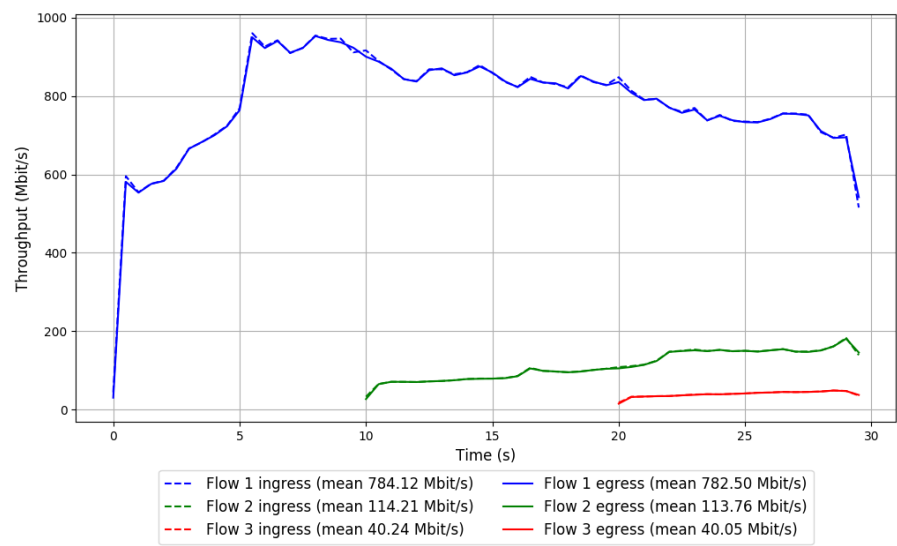
-- Flow 3:

Average throughput: 40.05 Mbit/s

95th percentile per-packet one-way delay: 20.063 ms

Loss rate: 0.47%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2018-03-06 19:45:20

End at: 2018-03-06 19:45:50

Local clock offset: -1.453 ms

Remote clock offset: 1.075 ms

Below is generated by plot.py at 2018-03-07 00:59:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 862.70 Mbit/s

95th percentile per-packet one-way delay: 20.185 ms

Loss rate: 0.34%

-- Flow 1:

Average throughput: 703.88 Mbit/s

95th percentile per-packet one-way delay: 20.191 ms

Loss rate: 0.28%

-- Flow 2:

Average throughput: 205.77 Mbit/s

95th percentile per-packet one-way delay: 20.165 ms

Loss rate: 0.61%

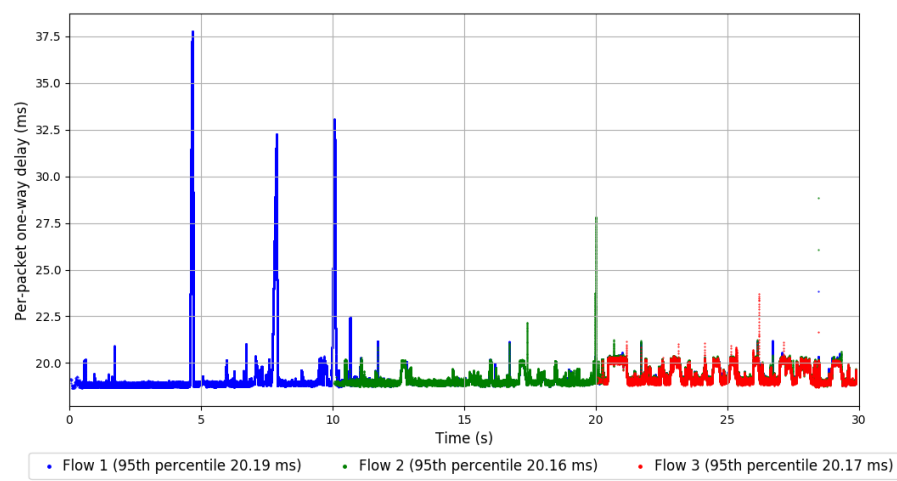
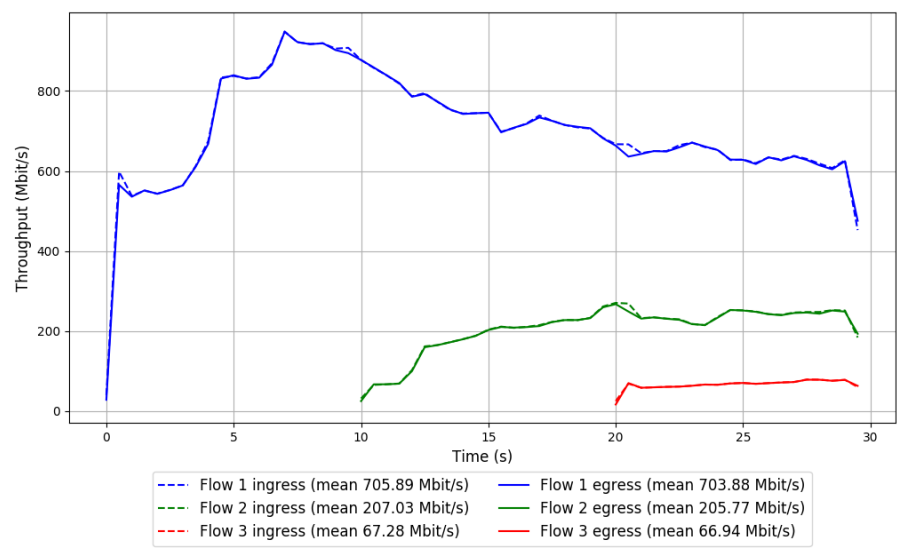
-- Flow 3:

Average throughput: 66.94 Mbit/s

95th percentile per-packet one-way delay: 20.174 ms

Loss rate: 0.56%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2018-03-06 20:14:52

End at: 2018-03-06 20:15:22

Local clock offset: 0.274 ms

Remote clock offset: 0.866 ms

Below is generated by plot.py at 2018-03-07 01:02:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 903.28 Mbit/s

95th percentile per-packet one-way delay: 21.352 ms

Loss rate: 0.31%

-- Flow 1:

Average throughput: 831.92 Mbit/s

95th percentile per-packet one-way delay: 21.947 ms

Loss rate: 0.29%

-- Flow 2:

Average throughput: 68.07 Mbit/s

95th percentile per-packet one-way delay: 19.983 ms

Loss rate: 0.50%

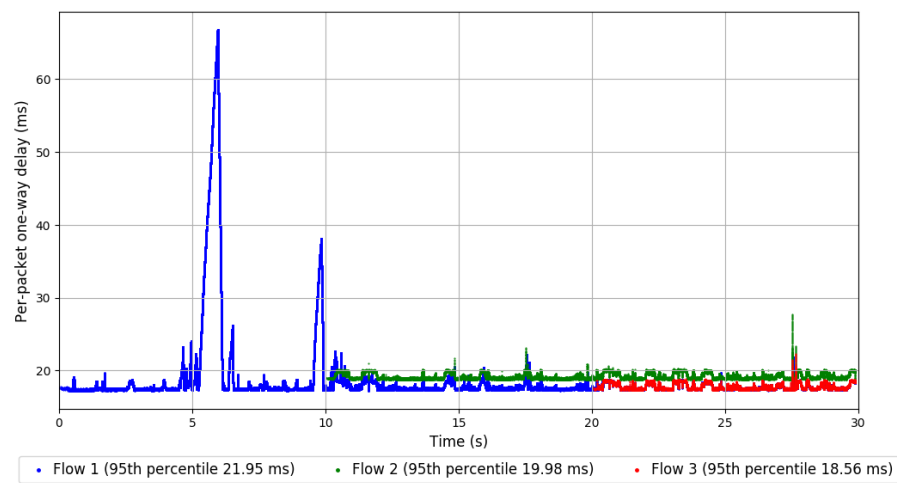
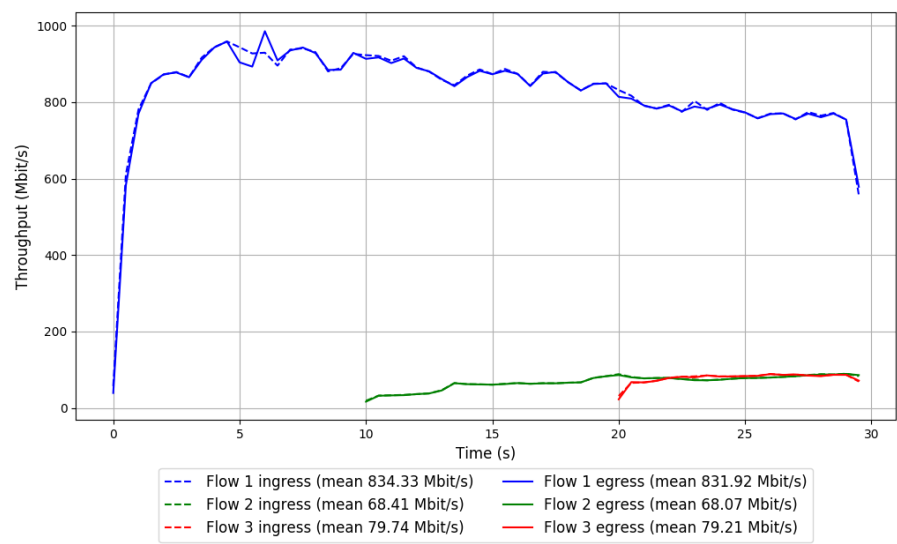
-- Flow 3:

Average throughput: 79.21 Mbit/s

95th percentile per-packet one-way delay: 18.557 ms

Loss rate: 0.67%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2018-03-06 20:44:34

End at: 2018-03-06 20:45:04

Local clock offset: -5.513 ms

Remote clock offset: 1.779 ms

Below is generated by plot.py at 2018-03-07 01:08:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 867.67 Mbit/s

95th percentile per-packet one-way delay: 19.782 ms

Loss rate: 0.79%

-- Flow 1:

Average throughput: 608.42 Mbit/s

95th percentile per-packet one-way delay: 19.792 ms

Loss rate: 0.86%

-- Flow 2:

Average throughput: 315.92 Mbit/s

95th percentile per-packet one-way delay: 19.751 ms

Loss rate: 0.62%

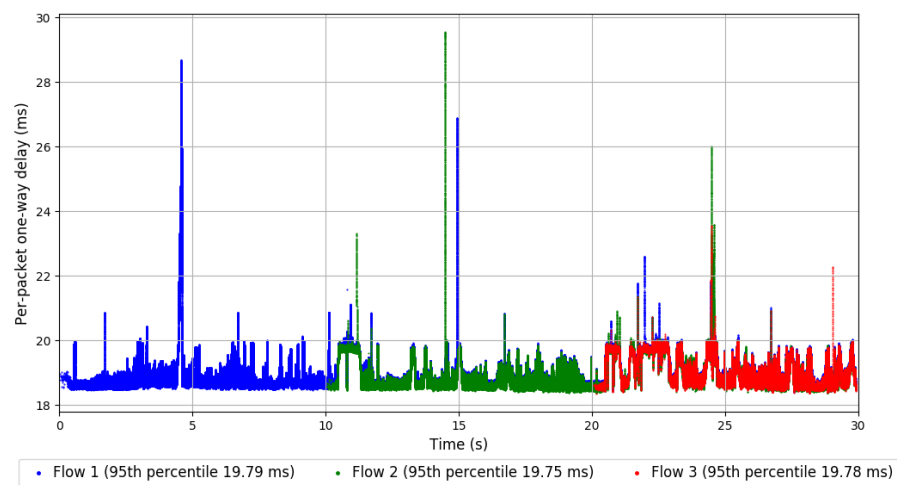
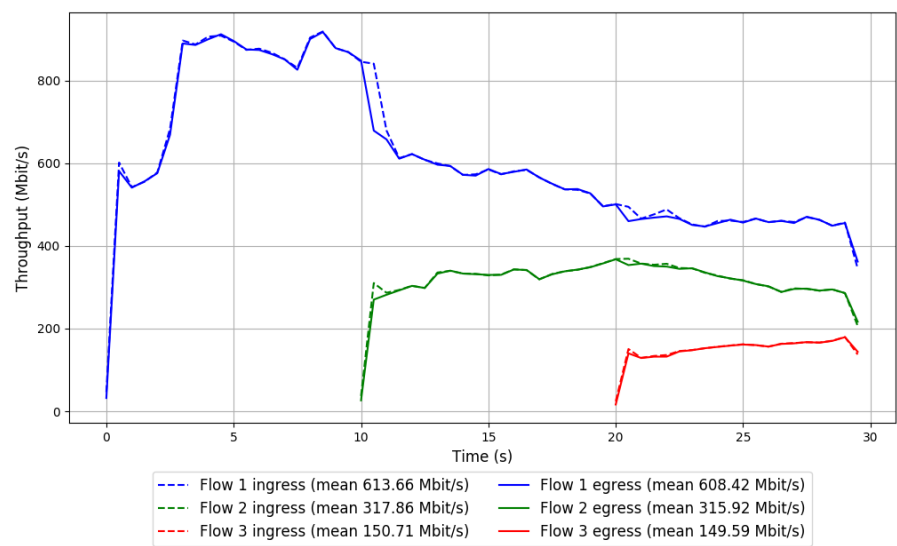
-- Flow 3:

Average throughput: 149.59 Mbit/s

95th percentile per-packet one-way delay: 19.784 ms

Loss rate: 0.75%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2018-03-06 21:13:51

End at: 2018-03-06 21:14:21

Local clock offset: -6.884 ms

Remote clock offset: 2.66 ms

Below is generated by plot.py at 2018-03-07 01:10:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 922.36 Mbit/s

95th percentile per-packet one-way delay: 20.207 ms

Loss rate: 0.66%

-- Flow 1:

Average throughput: 797.74 Mbit/s

95th percentile per-packet one-way delay: 20.222 ms

Loss rate: 0.69%

-- Flow 2:

Average throughput: 97.31 Mbit/s

95th percentile per-packet one-way delay: 20.111 ms

Loss rate: 0.40%

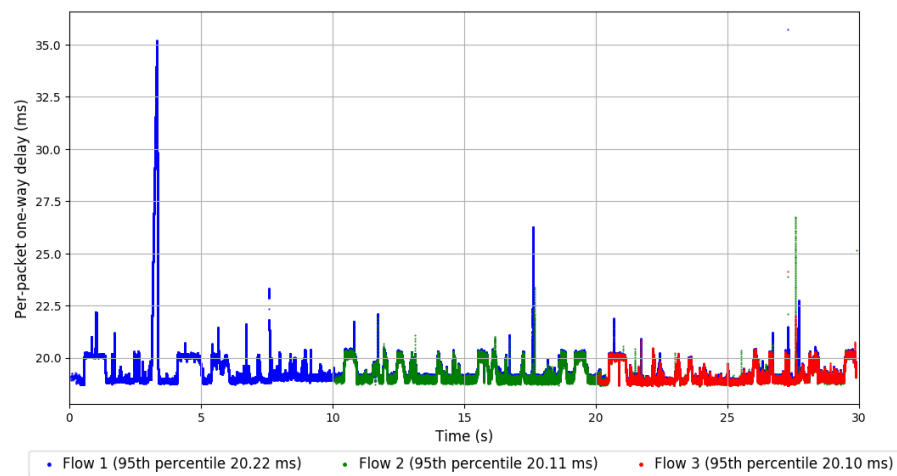
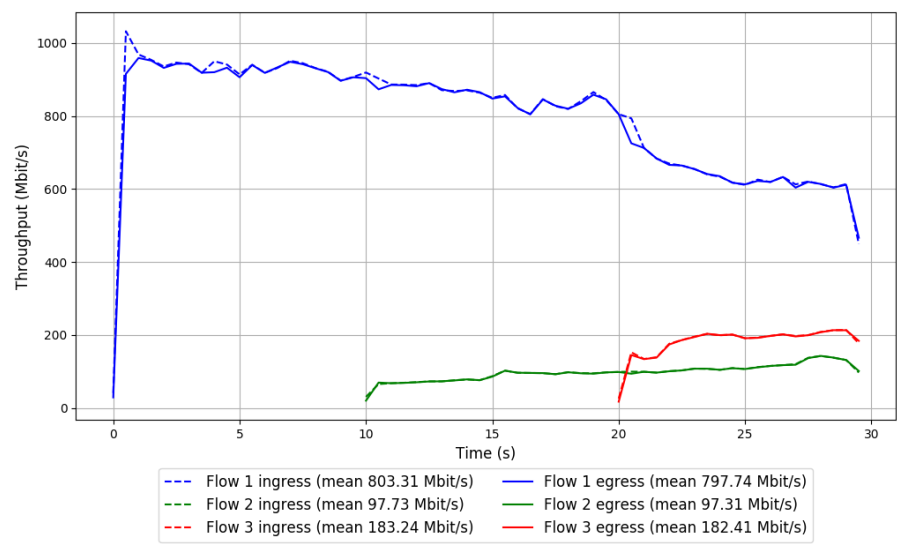
-- Flow 3:

Average throughput: 182.41 Mbit/s

95th percentile per-packet one-way delay: 20.101 ms

Loss rate: 0.46%

Run 10: Report of PCC — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2018-03-06 17:01:44

End at: 2018-03-06 17:02:14

Local clock offset: -8.028 ms

Remote clock offset: 2.475 ms

Below is generated by plot.py at 2018-03-07 01:10:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 71.86 Mbit/s

95th percentile per-packet one-way delay: 18.670 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.30 Mbit/s

95th percentile per-packet one-way delay: 18.762 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 75.56 Mbit/s

95th percentile per-packet one-way delay: 17.287 ms

Loss rate: 0.00%

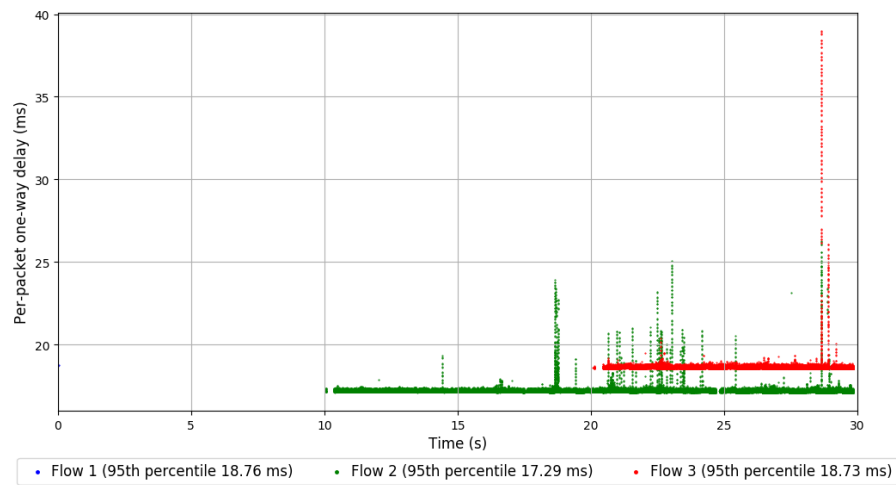
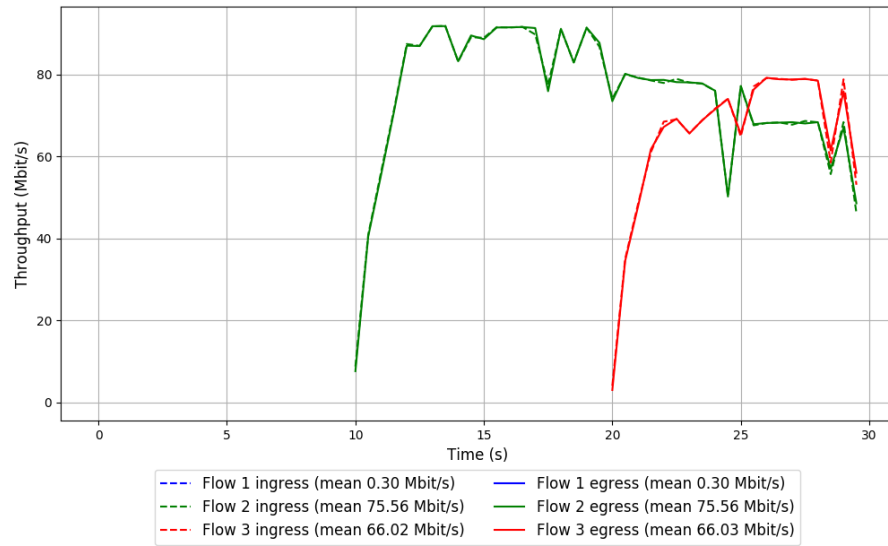
-- Flow 3:

Average throughput: 66.03 Mbit/s

95th percentile per-packet one-way delay: 18.734 ms

Loss rate: 0.00%

Run 1: Report of QUIC Cubic — Data Link

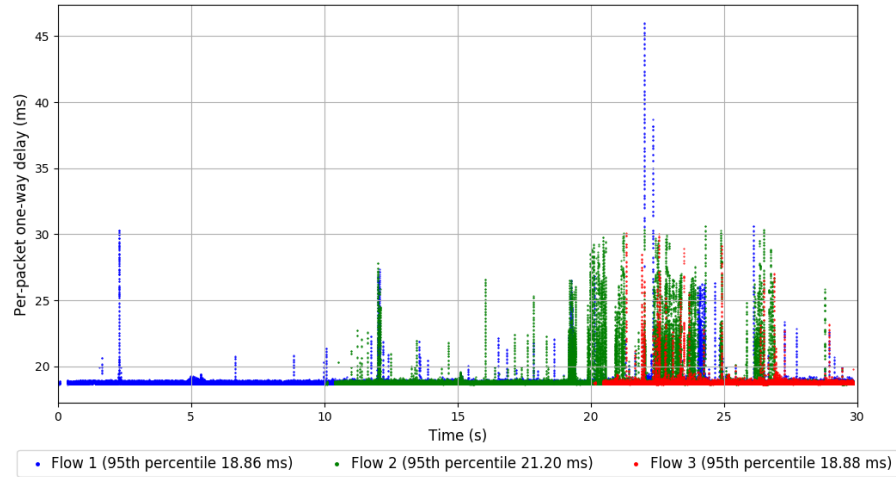
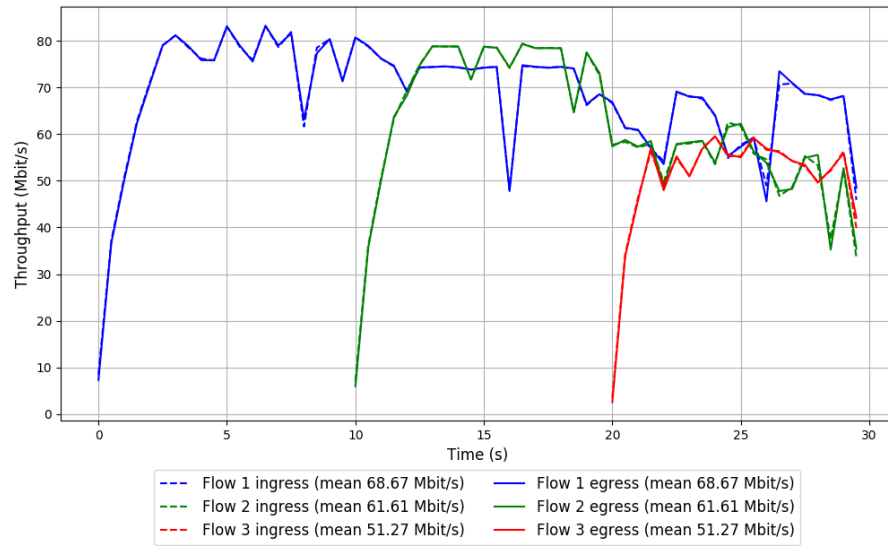


Run 2: Statistics of QUIC Cubic

Start at: 2018-03-06 17:32:00
End at: 2018-03-06 17:32:30
Local clock offset: -10.555 ms
Remote clock offset: 1.201 ms

Below is generated by plot.py at 2018-03-07 01:10:25
Datalink statistics
-- Total of 3 flows:
Average throughput: 126.33 Mbit/s
95th percentile per-packet one-way delay: 18.939 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 68.67 Mbit/s
95th percentile per-packet one-way delay: 18.865 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 61.61 Mbit/s
95th percentile per-packet one-way delay: 21.195 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 51.27 Mbit/s
95th percentile per-packet one-way delay: 18.876 ms
Loss rate: 0.00%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-03-06 18:01:42

End at: 2018-03-06 18:02:12

Local clock offset: -6.312 ms

Remote clock offset: 0.965 ms

Below is generated by plot.py at 2018-03-07 01:10:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 128.99 Mbit/s

95th percentile per-packet one-way delay: 19.084 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 70.88 Mbit/s

95th percentile per-packet one-way delay: 18.918 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 62.32 Mbit/s

95th percentile per-packet one-way delay: 19.616 ms

Loss rate: 0.00%

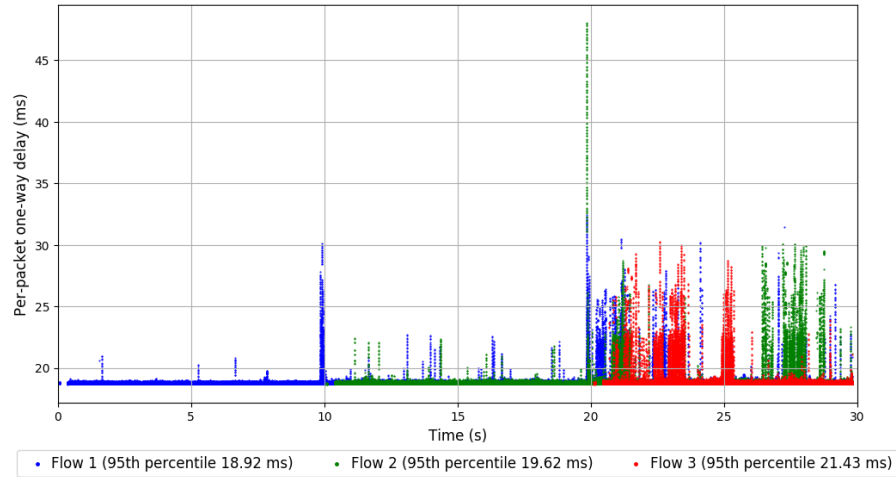
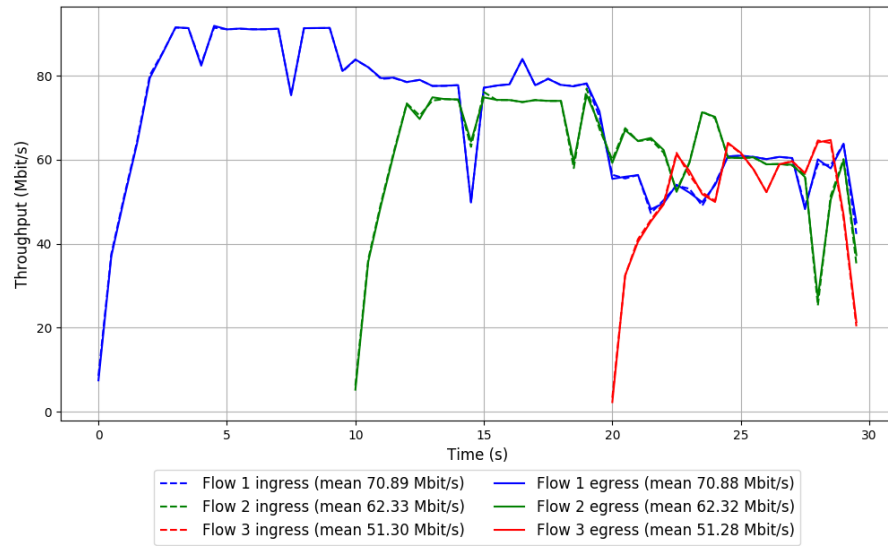
-- Flow 3:

Average throughput: 51.28 Mbit/s

95th percentile per-packet one-way delay: 21.425 ms

Loss rate: 0.01%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-03-06 18:31:38

End at: 2018-03-06 18:32:08

Local clock offset: 1.819 ms

Remote clock offset: 2.299 ms

Below is generated by plot.py at 2018-03-07 01:10:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 128.76 Mbit/s

95th percentile per-packet one-way delay: 19.356 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 70.13 Mbit/s

95th percentile per-packet one-way delay: 18.916 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 61.89 Mbit/s

95th percentile per-packet one-way delay: 21.365 ms

Loss rate: 0.00%

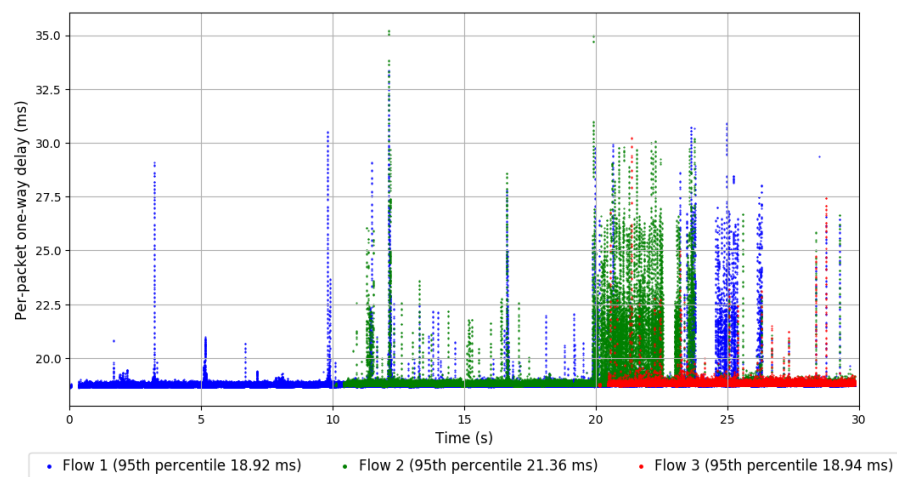
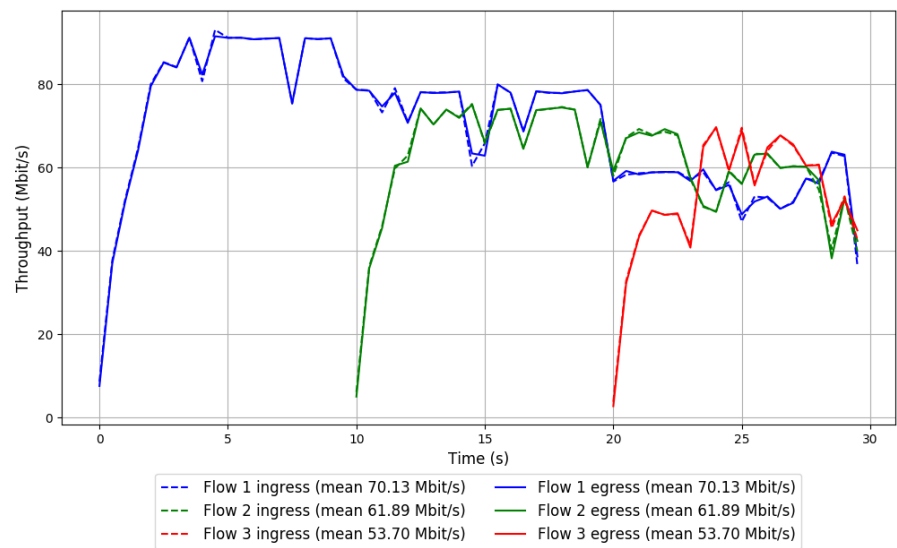
-- Flow 3:

Average throughput: 53.70 Mbit/s

95th percentile per-packet one-way delay: 18.936 ms

Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-03-06 19:01:17

End at: 2018-03-06 19:01:47

Local clock offset: -5.01 ms

Remote clock offset: 2.056 ms

Below is generated by plot.py at 2018-03-07 01:10:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 128.41 Mbit/s

95th percentile per-packet one-way delay: 18.843 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 71.23 Mbit/s

95th percentile per-packet one-way delay: 18.849 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 59.13 Mbit/s

95th percentile per-packet one-way delay: 18.835 ms

Loss rate: 0.00%

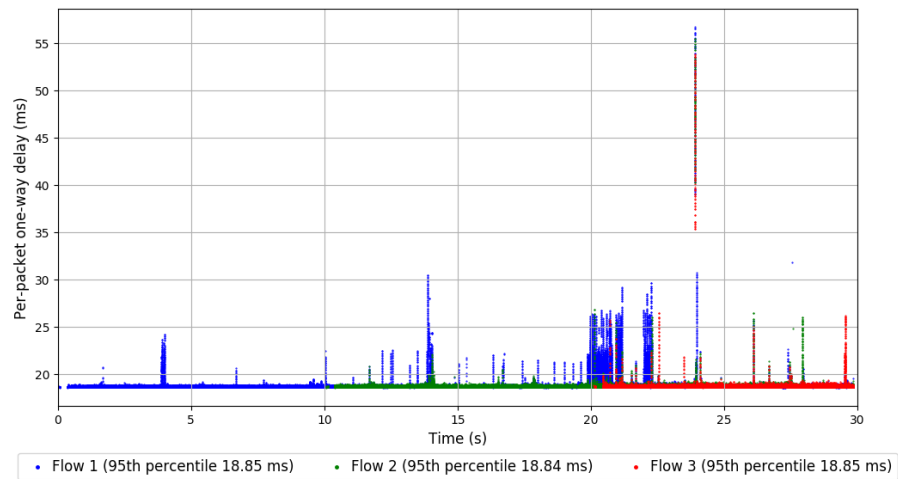
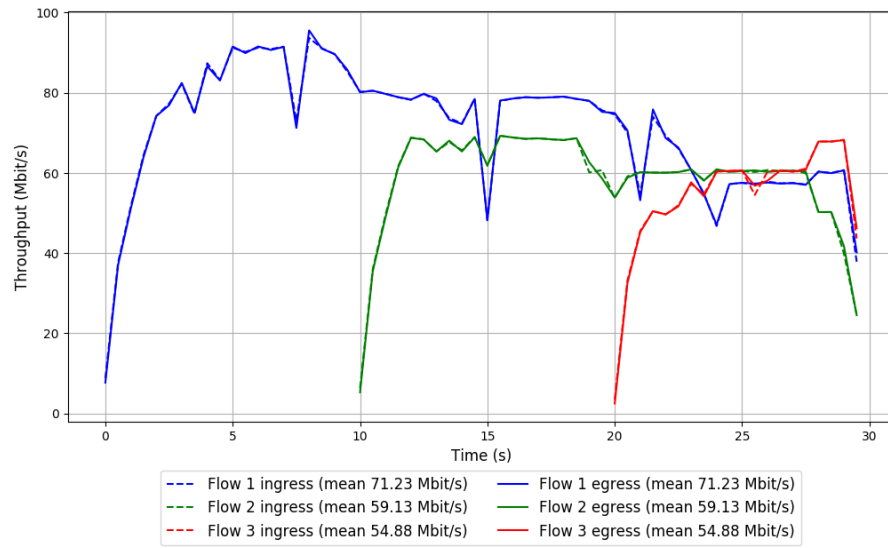
-- Flow 3:

Average throughput: 54.88 Mbit/s

95th percentile per-packet one-way delay: 18.848 ms

Loss rate: 0.00%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-03-06 19:30:48

End at: 2018-03-06 19:31:18

Local clock offset: -2.725 ms

Remote clock offset: 1.036 ms

Below is generated by plot.py at 2018-03-07 01:10:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 123.88 Mbit/s

95th percentile per-packet one-way delay: 18.999 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 65.10 Mbit/s

95th percentile per-packet one-way delay: 19.006 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 62.56 Mbit/s

95th percentile per-packet one-way delay: 17.700 ms

Loss rate: 0.00%

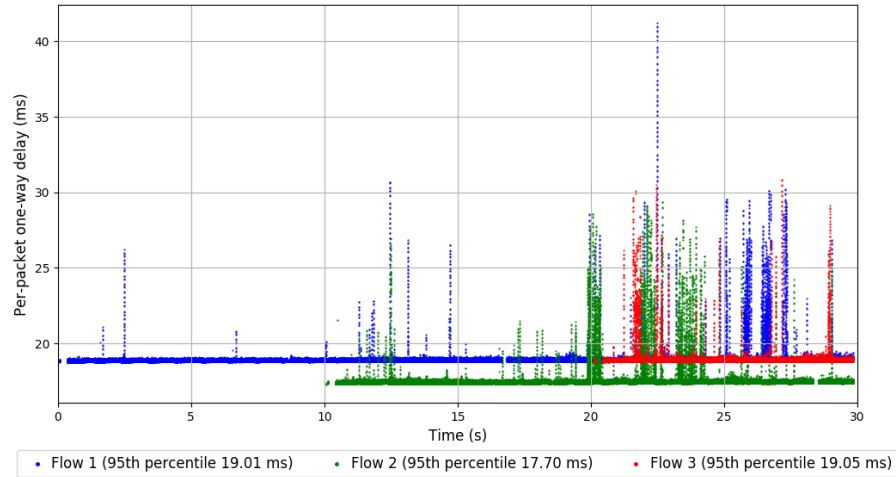
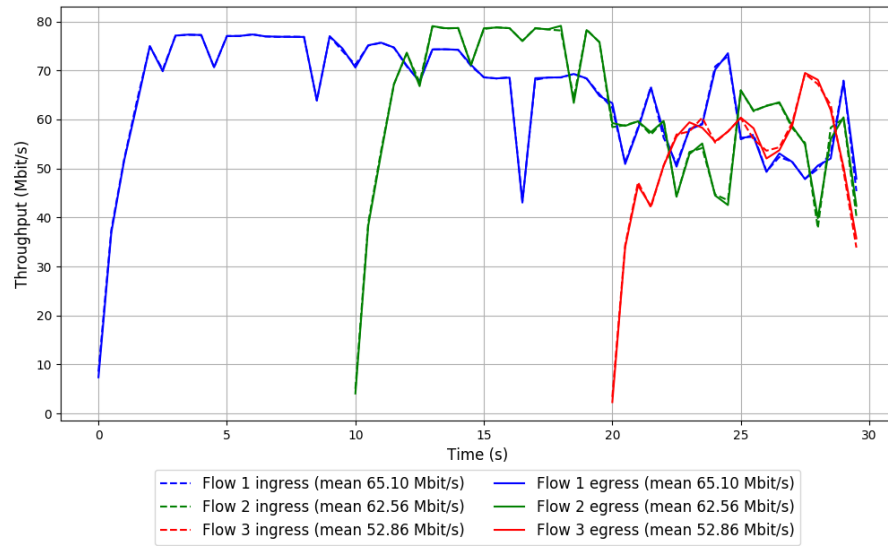
-- Flow 3:

Average throughput: 52.86 Mbit/s

95th percentile per-packet one-way delay: 19.045 ms

Loss rate: 0.00%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-03-06 20:00:04

End at: 2018-03-06 20:00:34

Local clock offset: -0.635 ms

Remote clock offset: 0.941 ms

Below is generated by plot.py at 2018-03-07 01:10:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 126.98 Mbit/s

95th percentile per-packet one-way delay: 20.460 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 64.78 Mbit/s

95th percentile per-packet one-way delay: 19.020 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 67.95 Mbit/s

95th percentile per-packet one-way delay: 22.256 ms

Loss rate: 0.00%

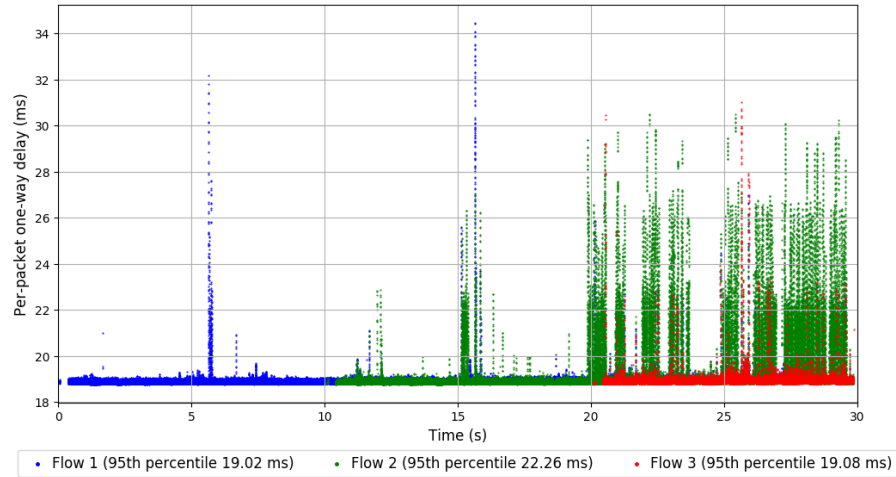
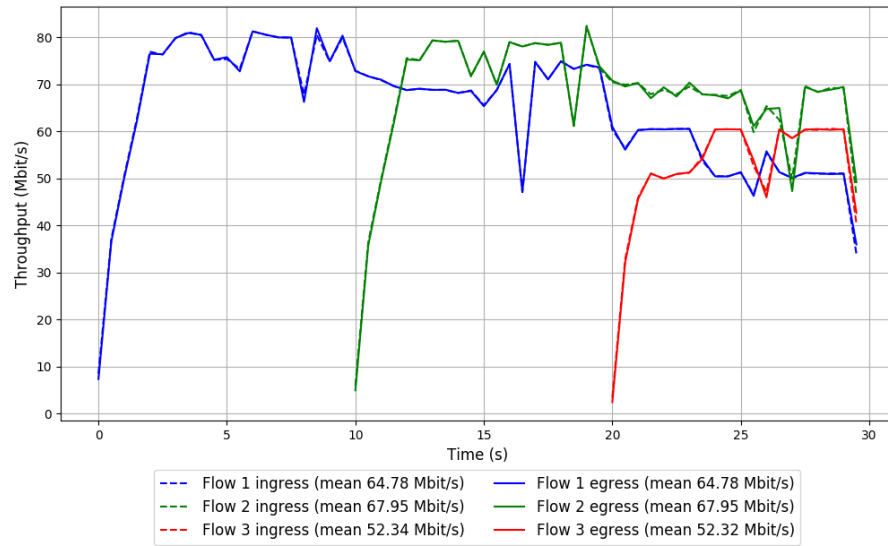
-- Flow 3:

Average throughput: 52.32 Mbit/s

95th percentile per-packet one-way delay: 19.081 ms

Loss rate: 0.00%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-03-06 20:29:51

End at: 2018-03-06 20:30:21

Local clock offset: -1.558 ms

Remote clock offset: 0.725 ms

Below is generated by plot.py at 2018-03-07 01:10:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 128.11 Mbit/s

95th percentile per-packet one-way delay: 19.409 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 71.74 Mbit/s

95th percentile per-packet one-way delay: 19.666 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 59.10 Mbit/s

95th percentile per-packet one-way delay: 19.287 ms

Loss rate: 0.02%

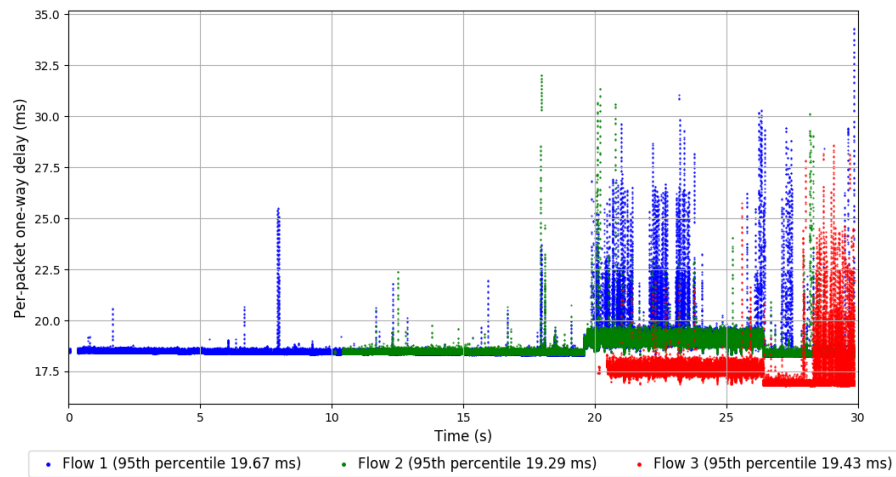
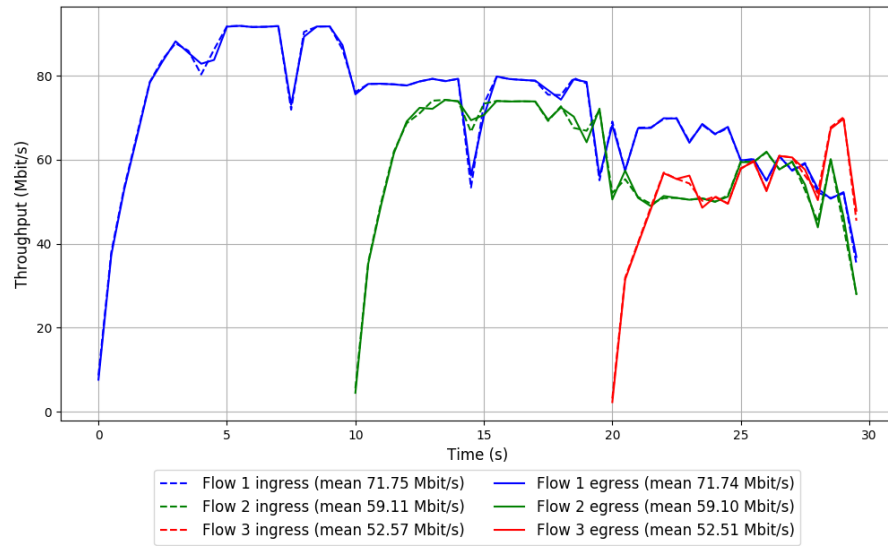
-- Flow 3:

Average throughput: 52.51 Mbit/s

95th percentile per-packet one-way delay: 19.425 ms

Loss rate: 0.10%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-03-06 20:59:19

End at: 2018-03-06 20:59:49

Local clock offset: -7.448 ms

Remote clock offset: 2.41 ms

Below is generated by plot.py at 2018-03-07 01:10:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 124.73 Mbit/s

95th percentile per-packet one-way delay: 19.438 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 66.25 Mbit/s

95th percentile per-packet one-way delay: 18.824 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 61.91 Mbit/s

95th percentile per-packet one-way delay: 18.835 ms

Loss rate: 0.00%

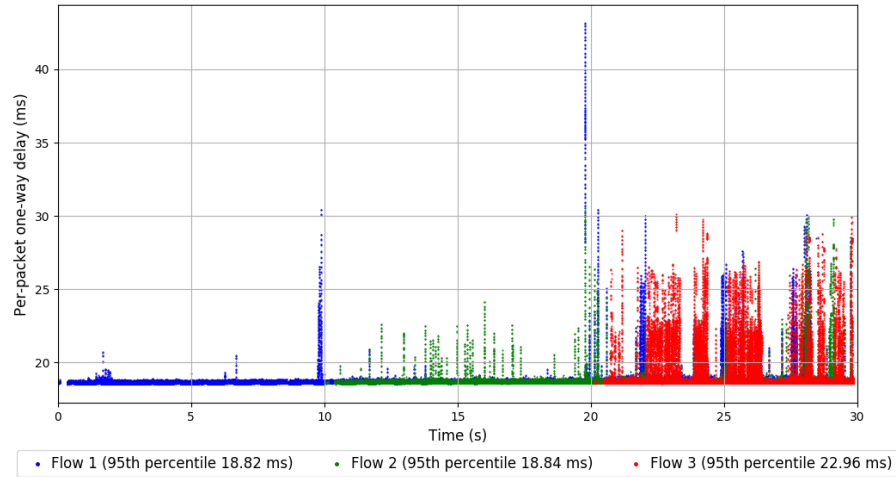
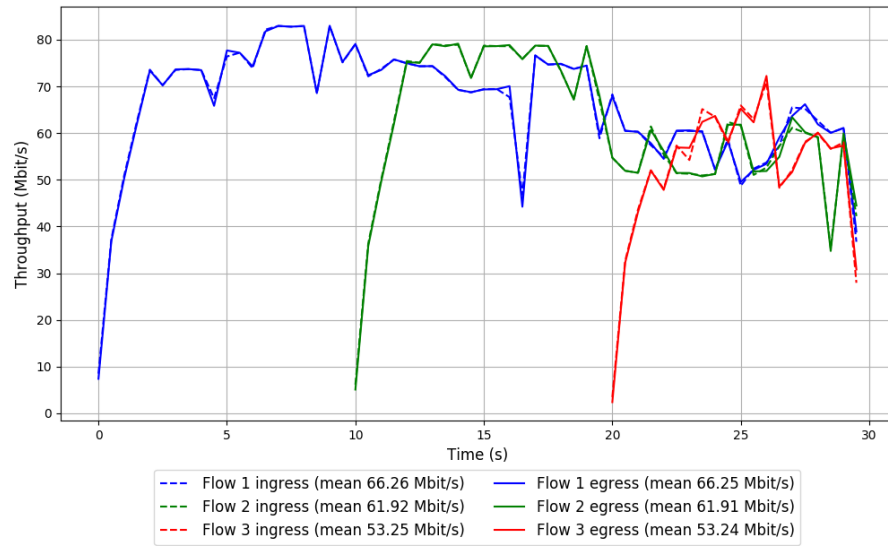
-- Flow 3:

Average throughput: 53.24 Mbit/s

95th percentile per-packet one-way delay: 22.957 ms

Loss rate: 0.01%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-03-06 21:28:56

End at: 2018-03-06 21:29:26

Local clock offset: -7.558 ms

Remote clock offset: 2.889 ms

Below is generated by plot.py at 2018-03-07 01:10:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 130.41 Mbit/s

95th percentile per-packet one-way delay: 20.626 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 74.09 Mbit/s

95th percentile per-packet one-way delay: 21.507 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 58.62 Mbit/s

95th percentile per-packet one-way delay: 18.778 ms

Loss rate: 0.00%

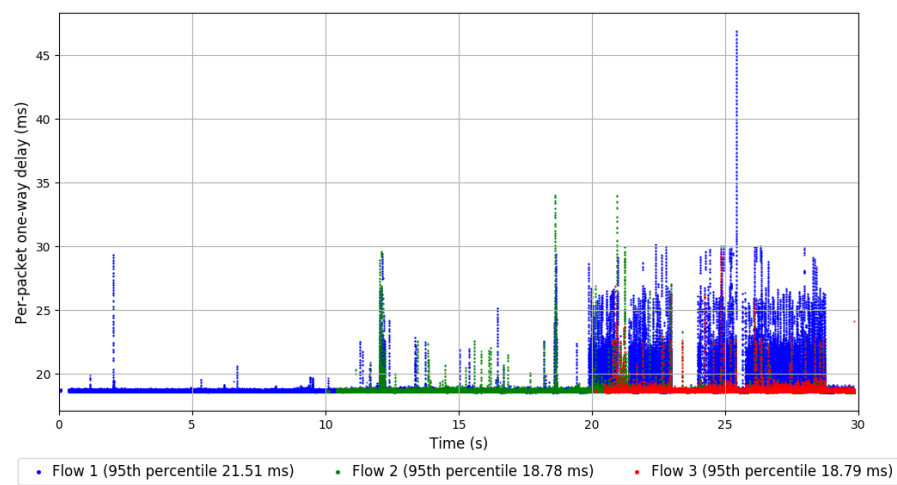
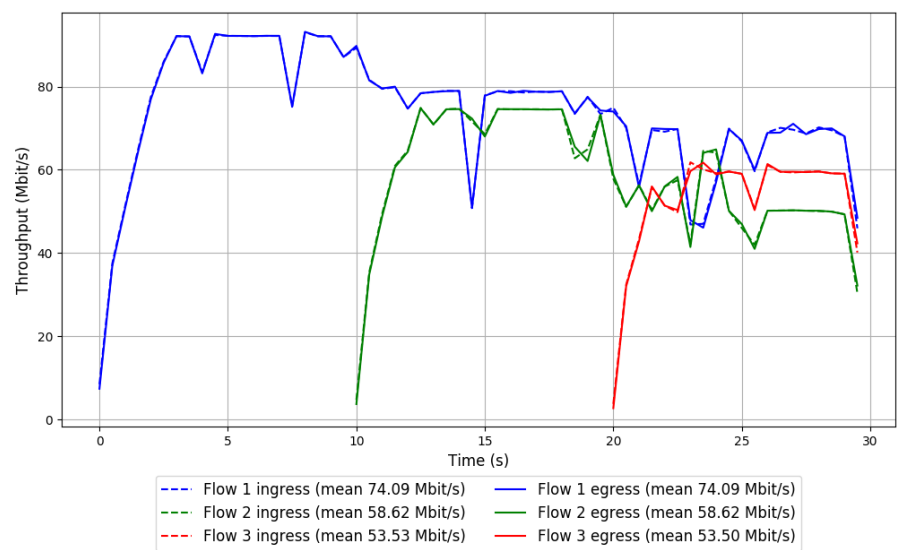
-- Flow 3:

Average throughput: 53.50 Mbit/s

95th percentile per-packet one-way delay: 18.794 ms

Loss rate: 0.00%

Run 10: Report of QUIC Cubic — Data Link

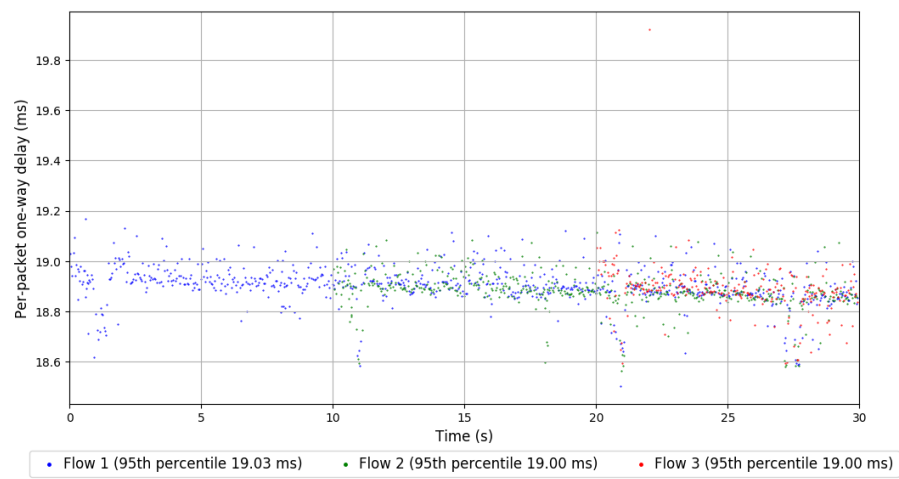
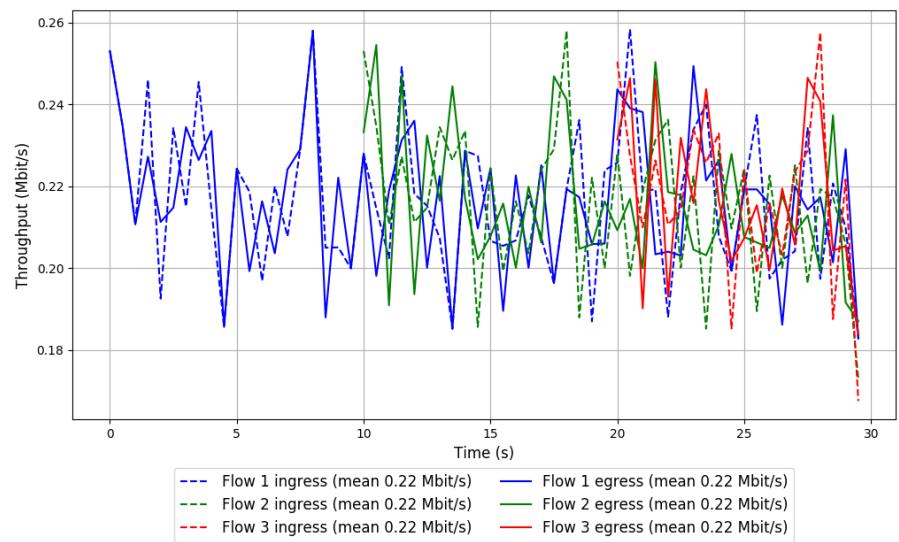


```
Run 1: Statistics of SReAM

Start at: 2018-03-06 16:56:52
End at: 2018-03-06 16:57:22
Local clock offset: -7.583 ms
Remote clock offset: 2.409 ms

# Below is generated by plot.py at 2018-03-07 01:10:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 19.012 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.032 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.000 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 18.998 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

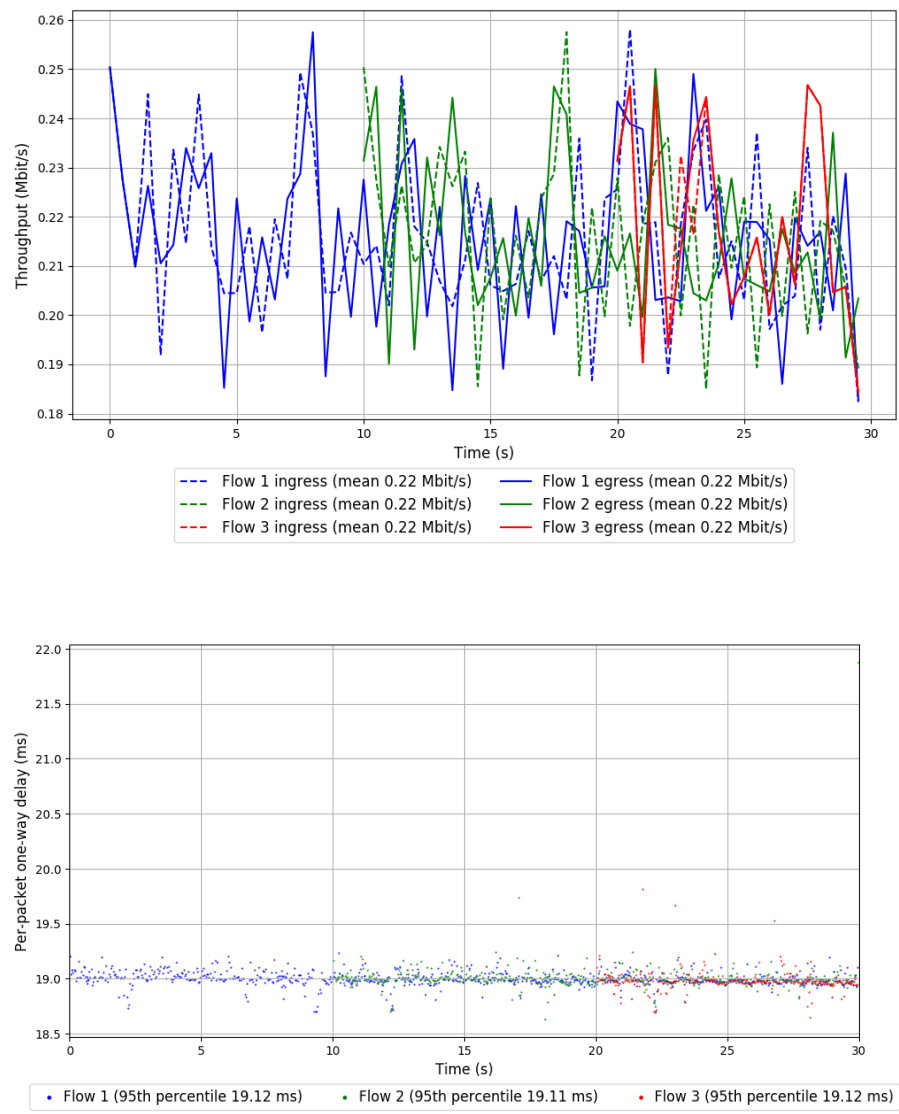


Run 2: Statistics of SReAM

Start at: 2018-03-06 17:27:10
End at: 2018-03-06 17:27:40
Local clock offset: -10.225 ms
Remote clock offset: 1.281 ms

Below is generated by plot.py at 2018-03-07 01:10:25
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 19.118 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.118 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.110 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.118 ms
Loss rate: 0.00%

Run 2: Report of SReAM — Data Link

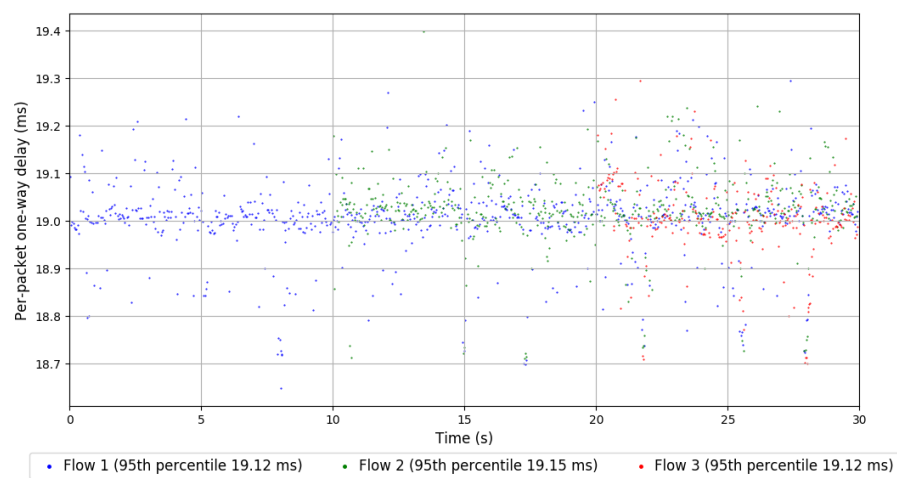
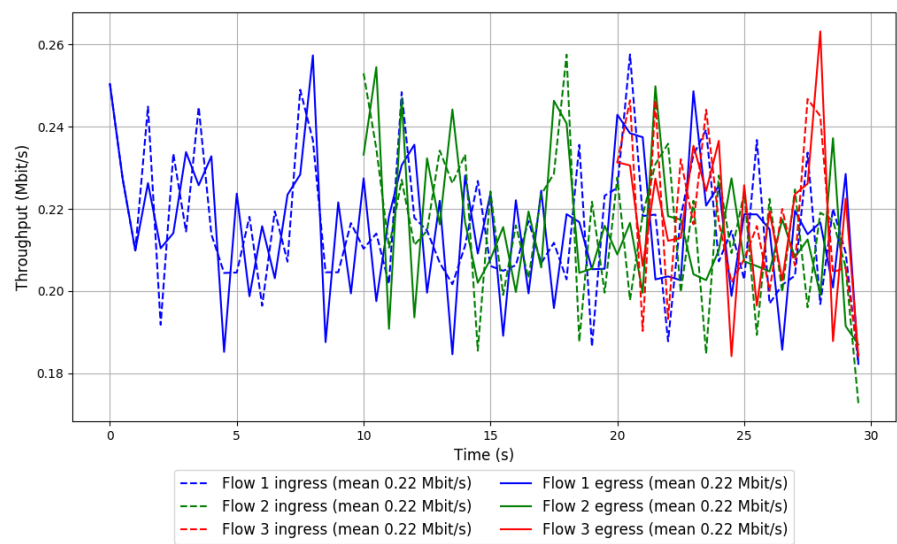


Run 3: Statistics of SReAM

Start at: 2018-03-06 17:56:54
End at: 2018-03-06 17:57:24
Local clock offset: -6.516 ms
Remote clock offset: 0.923 ms

Below is generated by plot.py at 2018-03-07 01:10:25
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 19.131 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.125 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.150 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.118 ms
Loss rate: 0.00%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SReAM

Start at: 2018-03-06 18:26:53

End at: 2018-03-06 18:27:23

Local clock offset: 0.862 ms

Remote clock offset: 1.954 ms

Below is generated by plot.py at 2018-03-07 01:10:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 19.253 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.266 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 17.864 ms

Loss rate: 0.00%

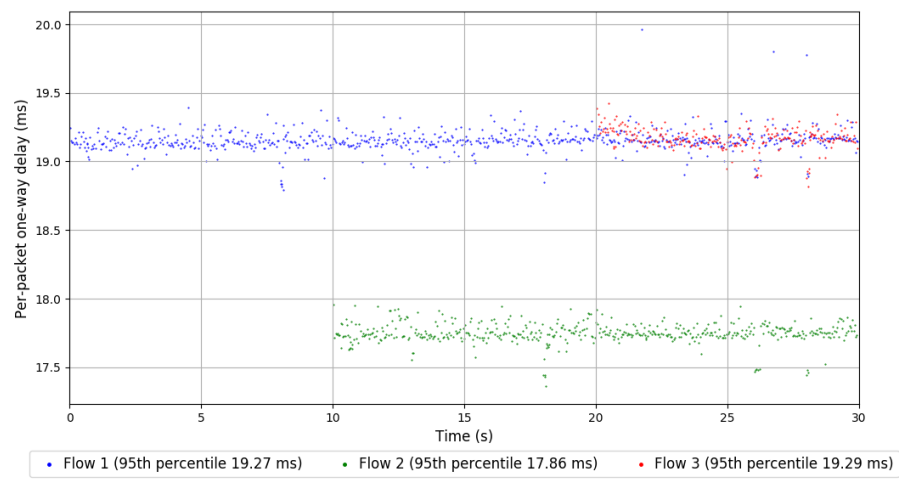
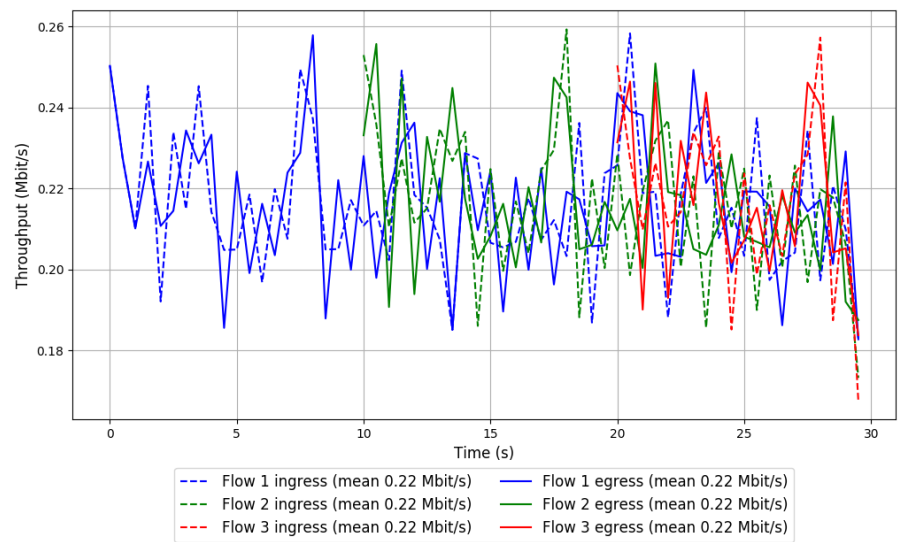
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.286 ms

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link

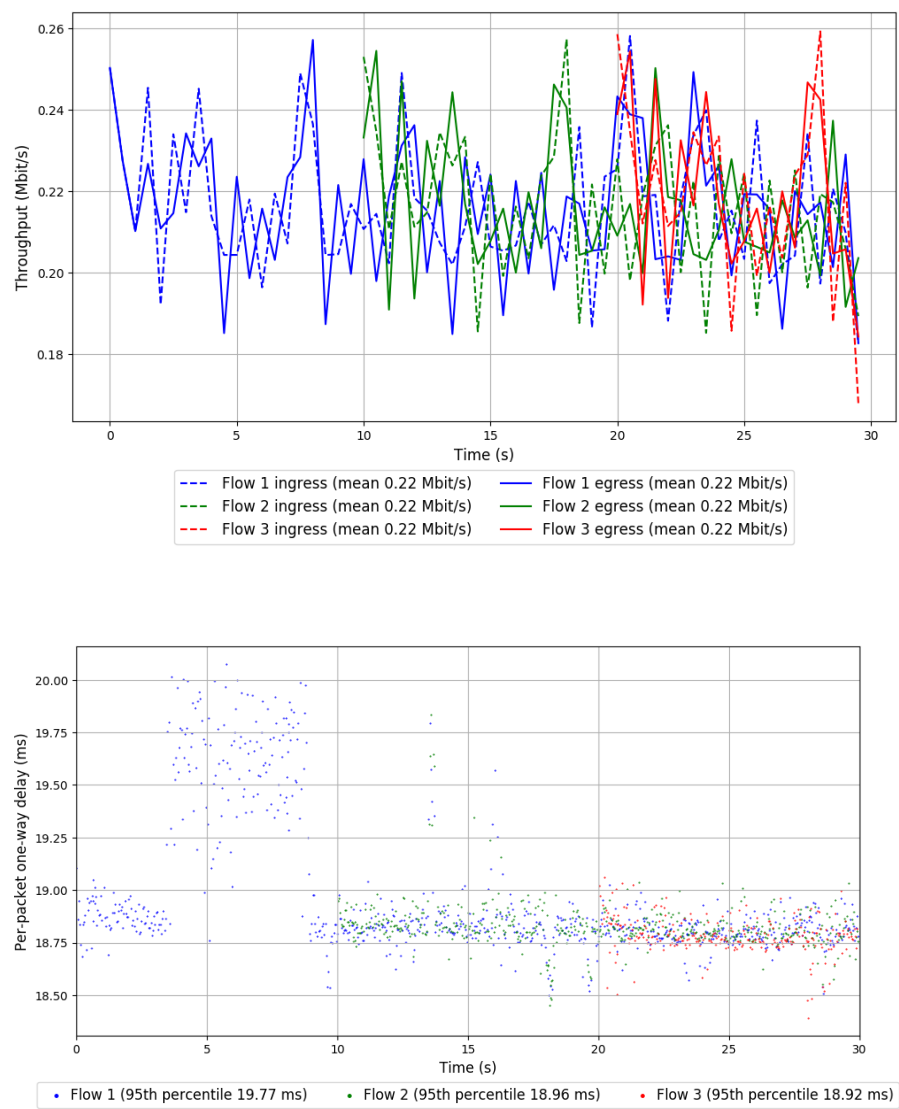


Run 5: Statistics of SReAM

Start at: 2018-03-06 18:56:31
End at: 2018-03-06 18:57:01
Local clock offset: -4.095 ms
Remote clock offset: 2.525 ms

Below is generated by plot.py at 2018-03-07 01:10:25
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 19.632 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.772 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 18.958 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 18.924 ms
Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SReAM

Start at: 2018-03-06 19:26:07

End at: 2018-03-06 19:26:37

Local clock offset: -3.559 ms

Remote clock offset: 0.916 ms

Below is generated by plot.py at 2018-03-07 01:10:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 19.329 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.296 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.331 ms

Loss rate: 0.00%

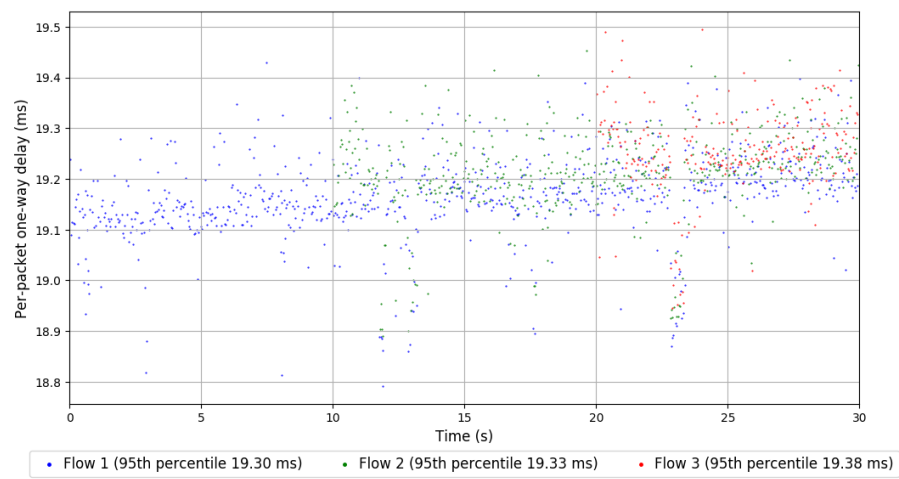
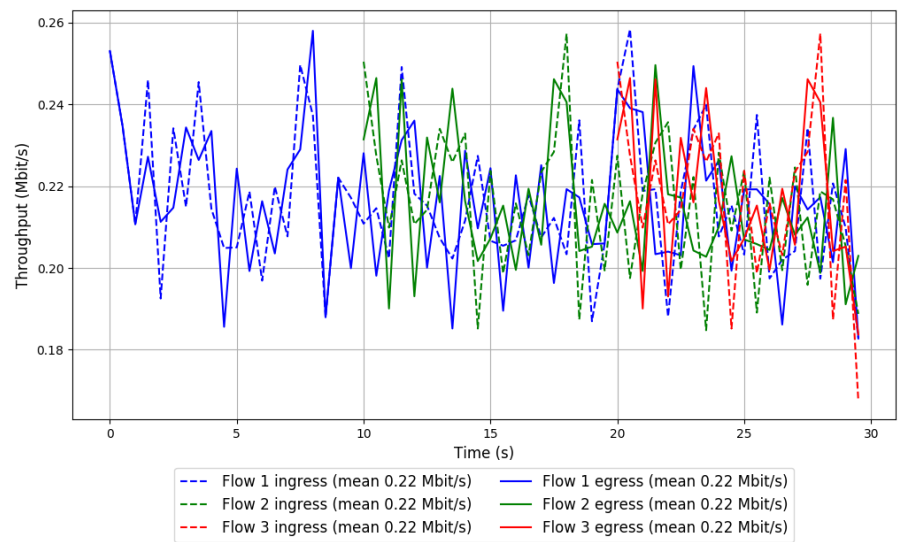
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.379 ms

Loss rate: 0.00%

Run 6: Report of SReAM — Data Link

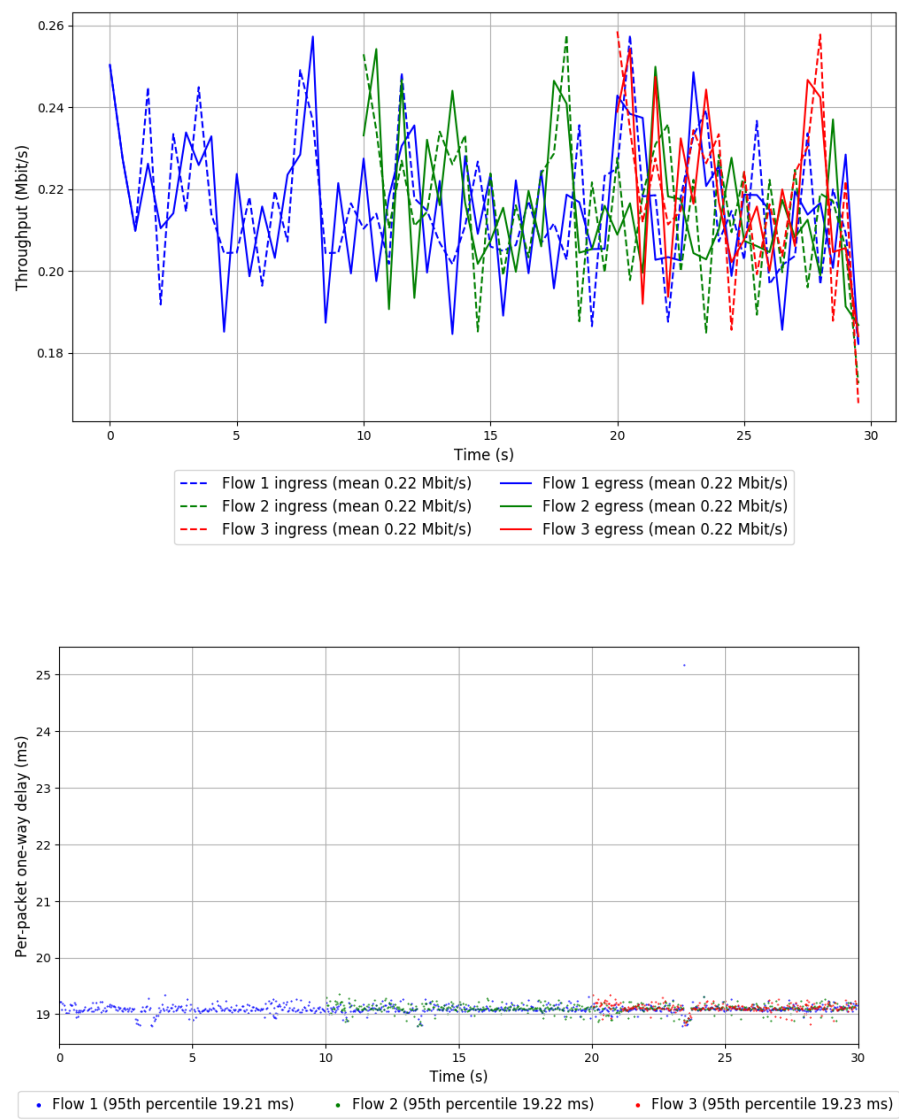


Run 7: Statistics of SReAM

Start at: 2018-03-06 19:55:16
End at: 2018-03-06 19:55:46
Local clock offset: -0.911 ms
Remote clock offset: 0.958 ms

Below is generated by plot.py at 2018-03-07 01:10:25
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 19.221 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.213 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.218 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.228 ms
Loss rate: 0.00%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SReAM

Start at: 2018-03-06 20:25:05

End at: 2018-03-06 20:25:35

Local clock offset: 0.703 ms

Remote clock offset: 0.875 ms

Below is generated by plot.py at 2018-03-07 01:10:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 19.100 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 17.793 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.152 ms

Loss rate: 0.00%

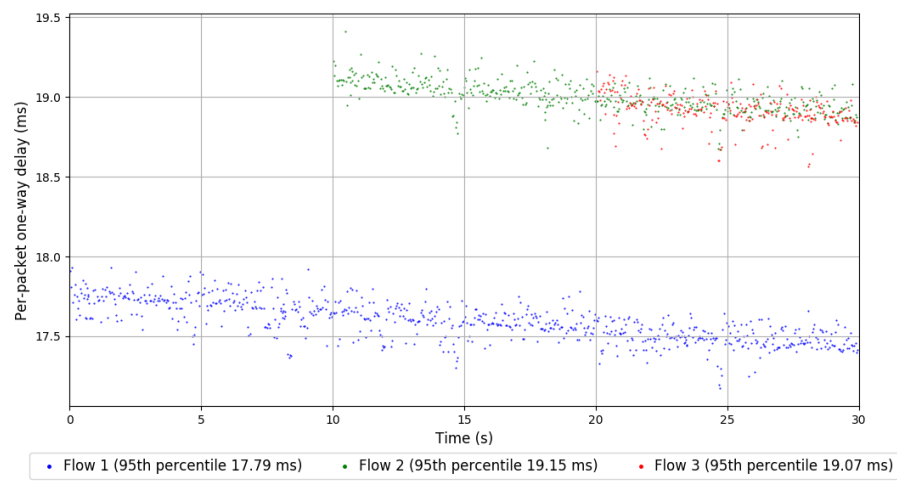
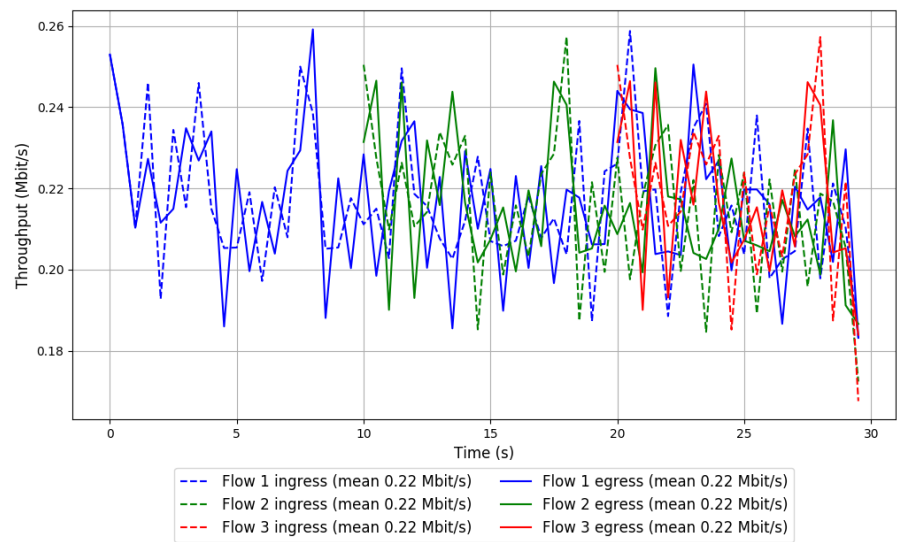
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.071 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link

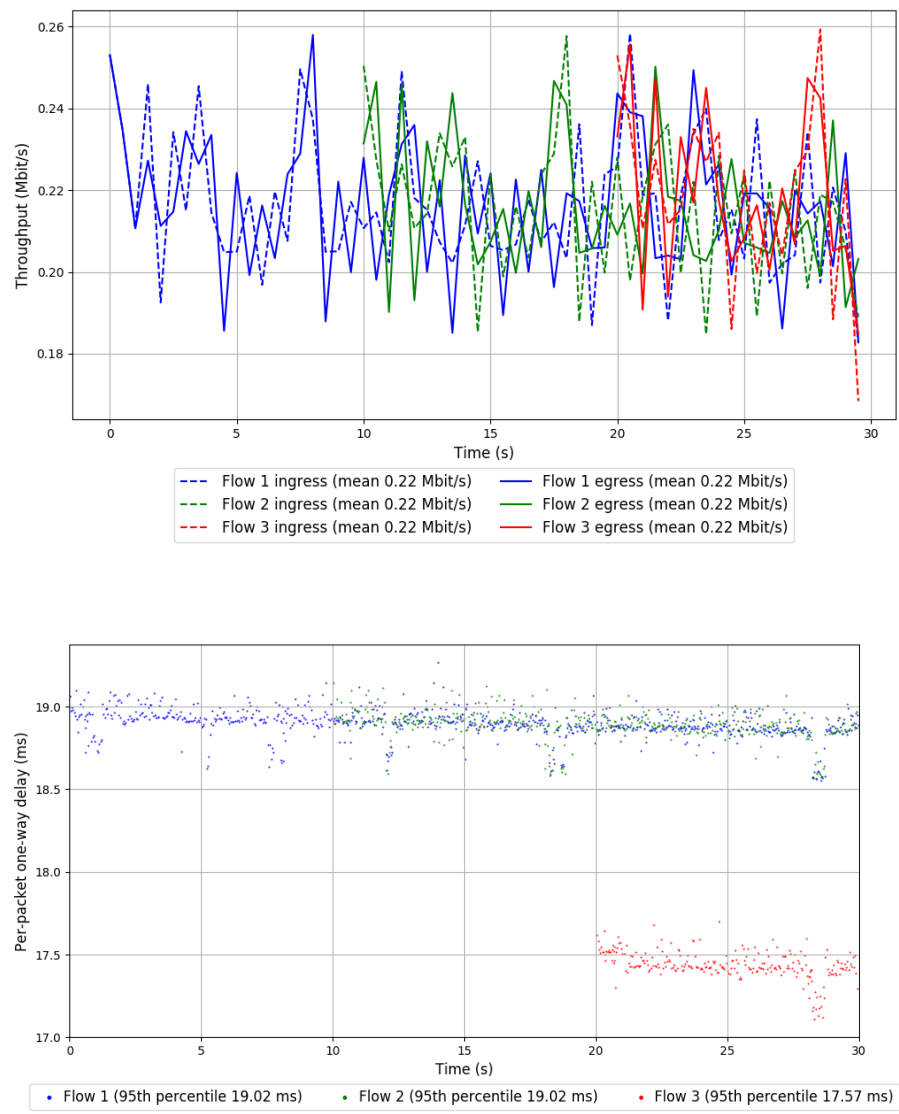


Run 9: Statistics of SReAM

Start at: 2018-03-06 20:54:31
End at: 2018-03-06 20:55:01
Local clock offset: -6.977 ms
Remote clock offset: 2.284 ms

Below is generated by plot.py at 2018-03-07 01:10:25
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 19.013 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.017 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.023 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 17.569 ms
Loss rate: 0.00%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-03-06 21:24:01

End at: 2018-03-06 21:24:31

Local clock offset: -7.259 ms

Remote clock offset: 2.818 ms

Below is generated by plot.py at 2018-03-07 01:10:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 19.001 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 17.616 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.041 ms

Loss rate: 0.00%

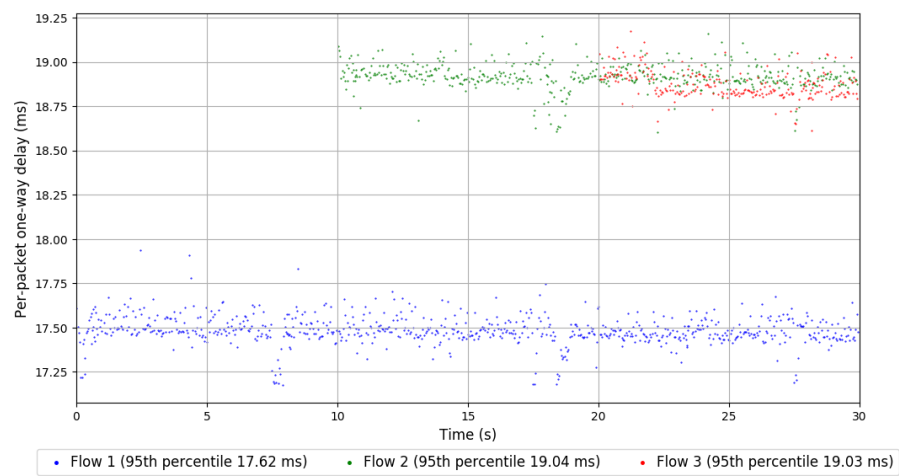
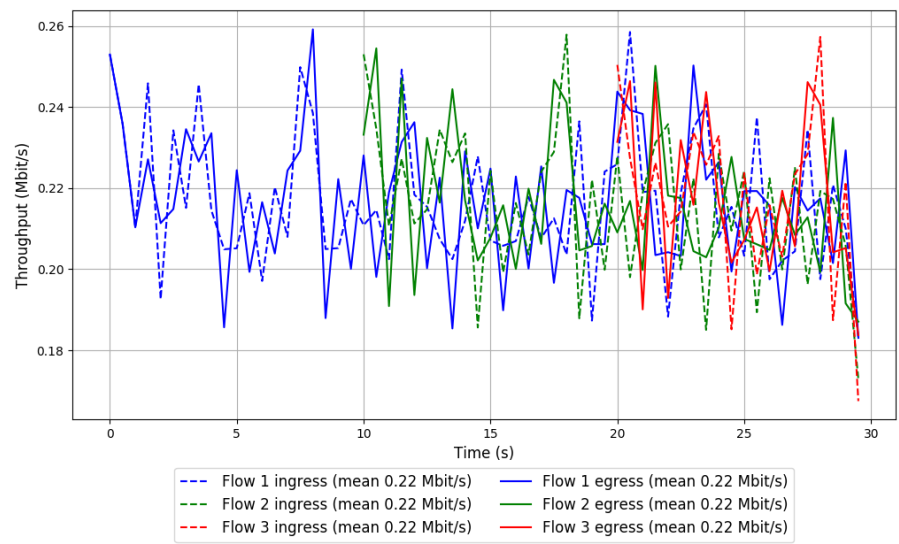
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.031 ms

Loss rate: 0.00%

Run 10: Report of SCReAM — Data Link



Run 1: Statistics of WebRTC media

Start at: 2018-03-06 16:52:02

End at: 2018-03-06 16:52:32

Local clock offset: -7.1 ms

Remote clock offset: 2.296 ms

Below is generated by plot.py at 2018-03-07 01:10:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 2.35 Mbit/s

95th percentile per-packet one-way delay: 19.066 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 18.962 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.58 Mbit/s

95th percentile per-packet one-way delay: 19.062 ms

Loss rate: 0.00%

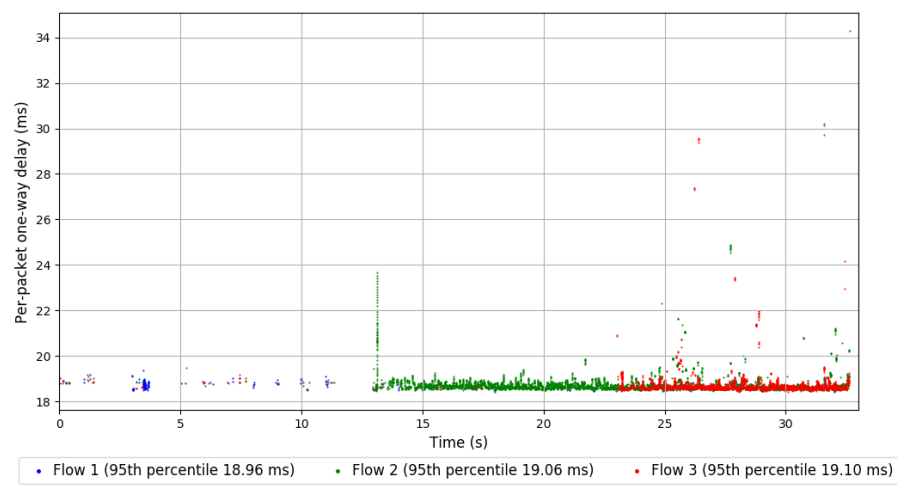
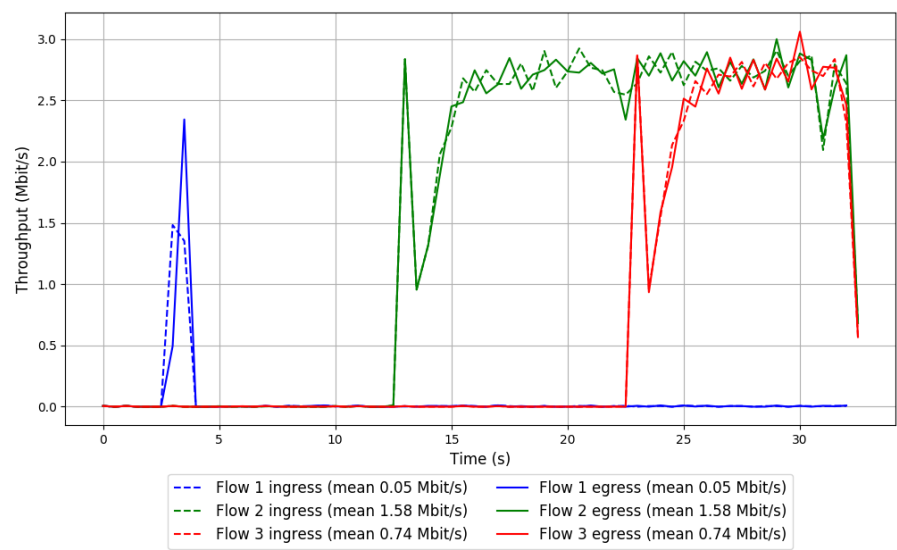
-- Flow 3:

Average throughput: 0.74 Mbit/s

95th percentile per-packet one-way delay: 19.096 ms

Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-03-06 17:22:21

End at: 2018-03-06 17:22:51

Local clock offset: -9.74 ms

Remote clock offset: 1.49 ms

Below is generated by plot.py at 2018-03-07 01:10:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.71 Mbit/s

95th percentile per-packet one-way delay: 21.100 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.42 Mbit/s

95th percentile per-packet one-way delay: 21.314 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.58 Mbit/s

95th percentile per-packet one-way delay: 19.935 ms

Loss rate: 0.00%

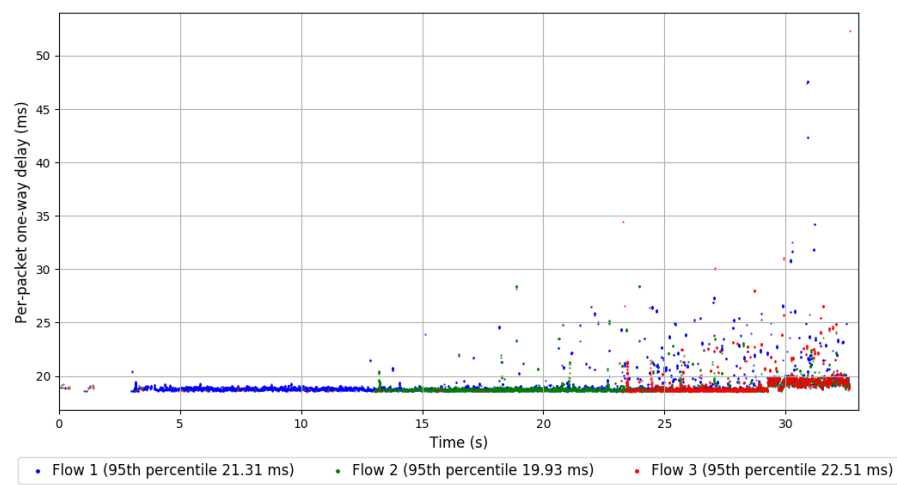
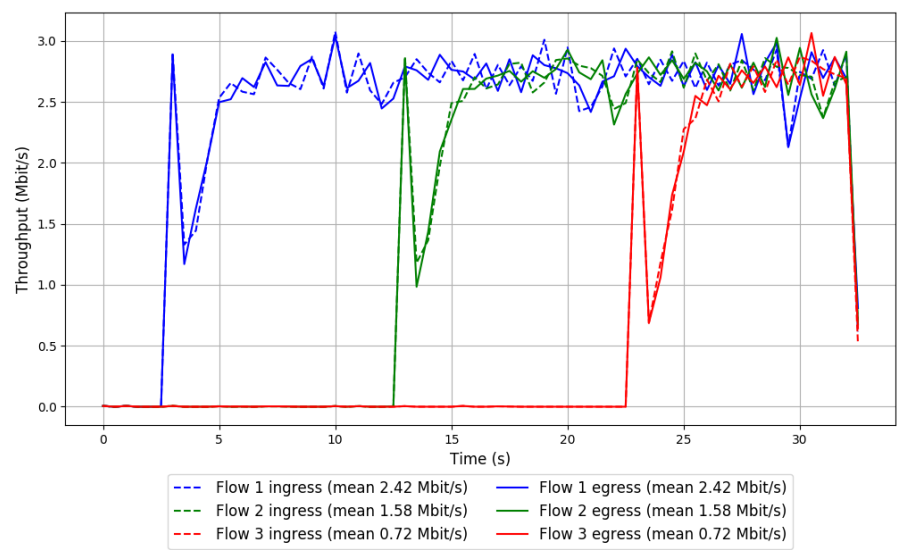
-- Flow 3:

Average throughput: 0.72 Mbit/s

95th percentile per-packet one-way delay: 22.512 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-03-06 17:52:04

End at: 2018-03-06 17:52:34

Local clock offset: -6.771 ms

Remote clock offset: 0.915 ms

Below is generated by plot.py at 2018-03-07 01:10:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.71 Mbit/s

95th percentile per-packet one-way delay: 20.267 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 2.41 Mbit/s

95th percentile per-packet one-way delay: 19.878 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 1.58 Mbit/s

95th percentile per-packet one-way delay: 19.843 ms

Loss rate: 0.00%

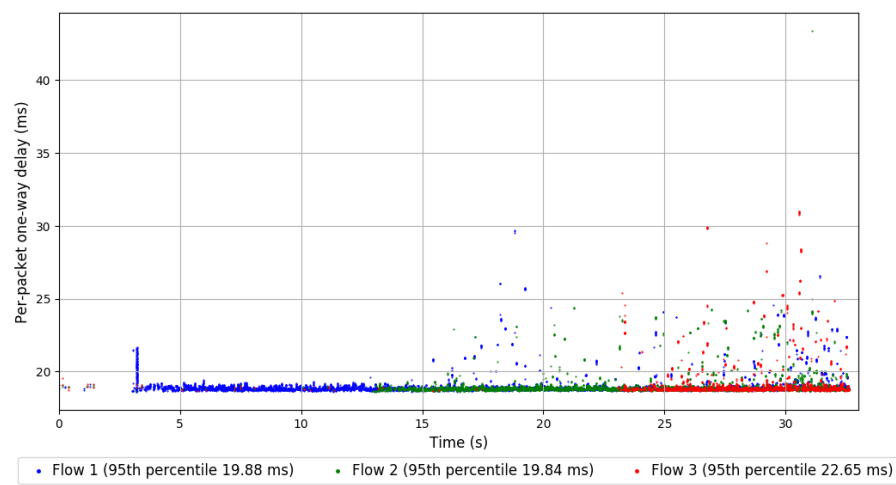
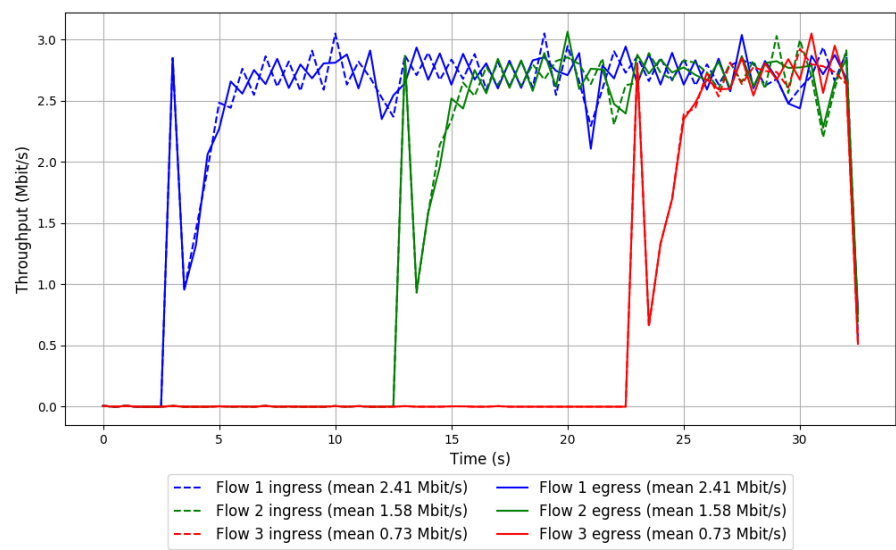
-- Flow 3:

Average throughput: 0.73 Mbit/s

95th percentile per-packet one-way delay: 22.653 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-03-06 18:22:04

End at: 2018-03-06 18:22:34

Local clock offset: -0.234 ms

Remote clock offset: 1.299 ms

Below is generated by plot.py at 2018-03-07 01:10:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.72 Mbit/s

95th percentile per-packet one-way delay: 19.282 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.42 Mbit/s

95th percentile per-packet one-way delay: 19.269 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.58 Mbit/s

95th percentile per-packet one-way delay: 19.274 ms

Loss rate: 0.00%

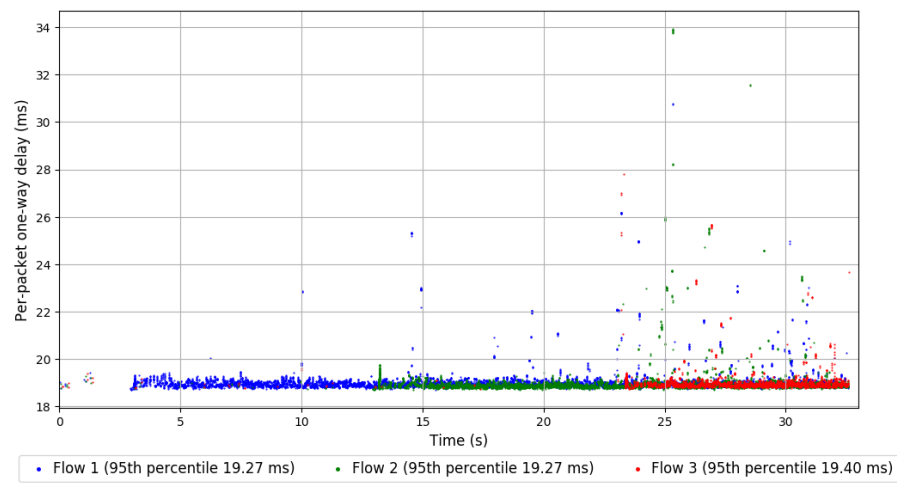
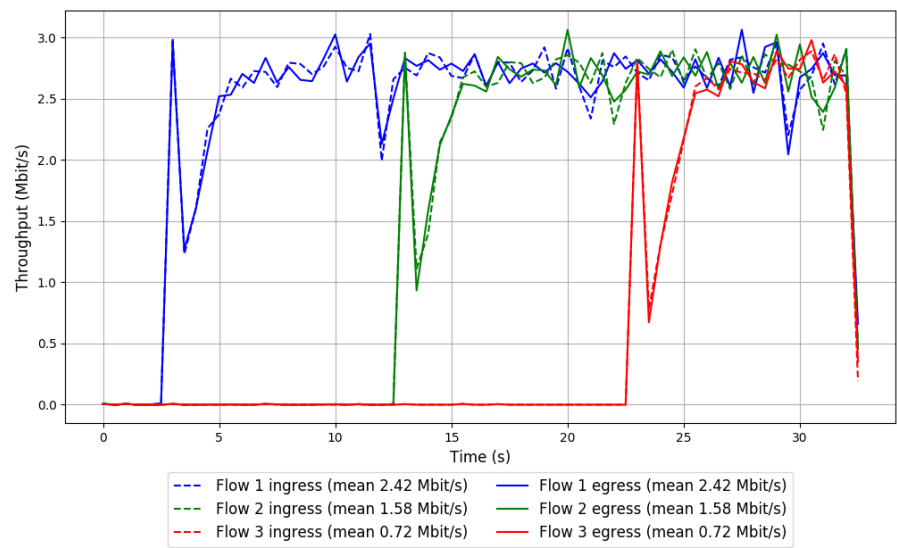
-- Flow 3:

Average throughput: 0.72 Mbit/s

95th percentile per-packet one-way delay: 19.402 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-03-06 18:51:40

End at: 2018-03-06 18:52:10

Local clock offset: -2.453 ms

Remote clock offset: 3.086 ms

Below is generated by plot.py at 2018-03-07 01:10:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.70 Mbit/s

95th percentile per-packet one-way delay: 19.224 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.42 Mbit/s

95th percentile per-packet one-way delay: 19.201 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.57 Mbit/s

95th percentile per-packet one-way delay: 19.025 ms

Loss rate: 0.00%

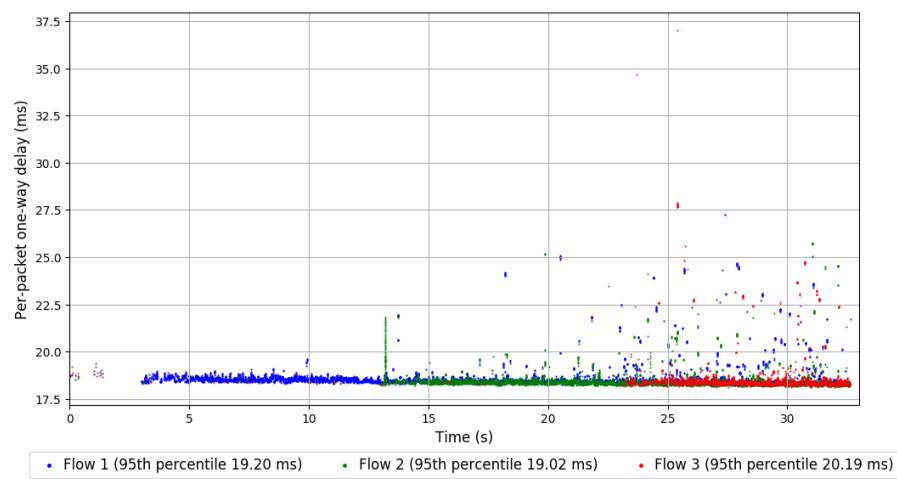
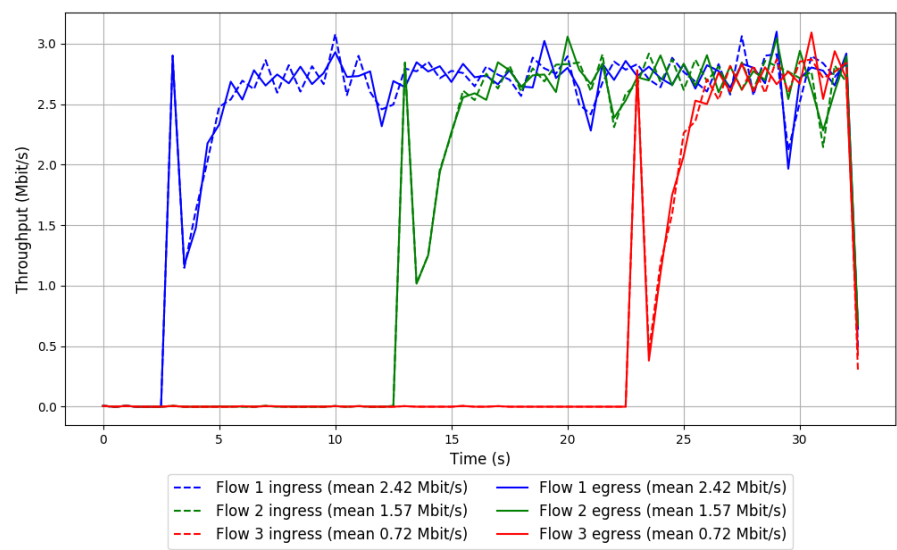
-- Flow 3:

Average throughput: 0.72 Mbit/s

95th percentile per-packet one-way delay: 20.191 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-03-06 19:21:21

End at: 2018-03-06 19:21:51

Local clock offset: -4.68 ms

Remote clock offset: 1.03 ms

Below is generated by plot.py at 2018-03-07 01:10:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.76 Mbit/s

95th percentile per-packet one-way delay: 20.850 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 2.46 Mbit/s

95th percentile per-packet one-way delay: 21.117 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 1.59 Mbit/s

95th percentile per-packet one-way delay: 19.988 ms

Loss rate: 0.00%

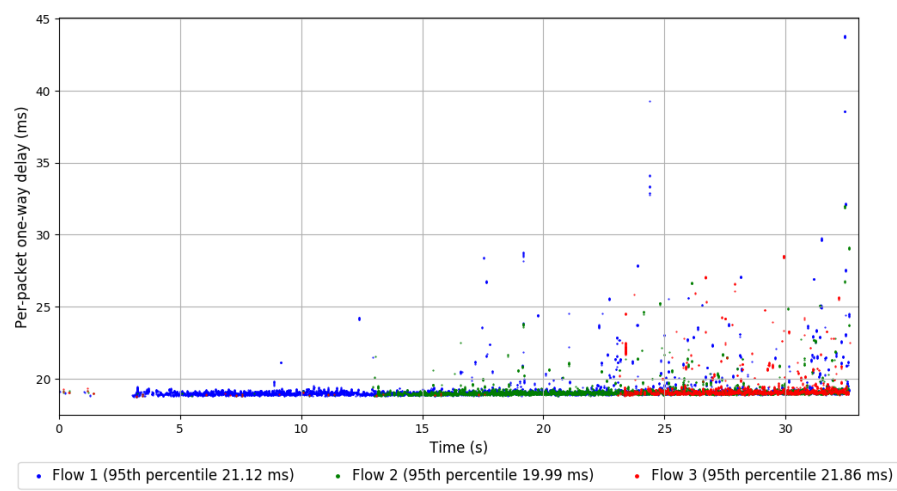
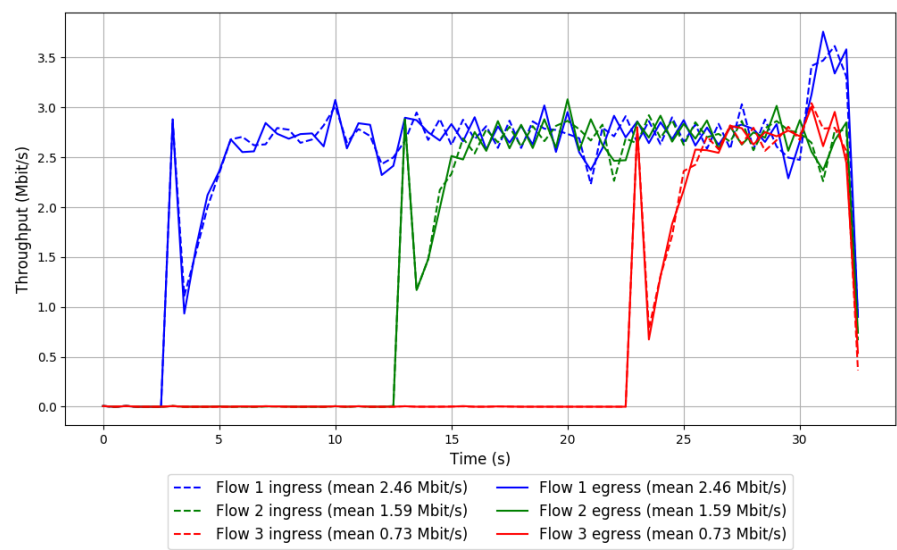
-- Flow 3:

Average throughput: 0.73 Mbit/s

95th percentile per-packet one-way delay: 21.863 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-03-06 19:50:30

End at: 2018-03-06 19:51:00

Local clock offset: -1.11 ms

Remote clock offset: 1.006 ms

Below is generated by plot.py at 2018-03-07 01:10:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.72 Mbit/s

95th percentile per-packet one-way delay: 19.238 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.42 Mbit/s

95th percentile per-packet one-way delay: 19.140 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.58 Mbit/s

95th percentile per-packet one-way delay: 19.345 ms

Loss rate: 0.00%

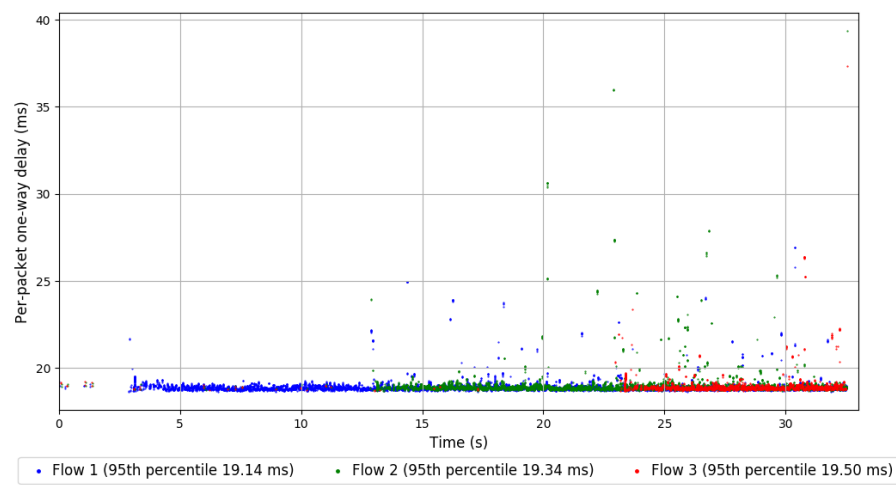
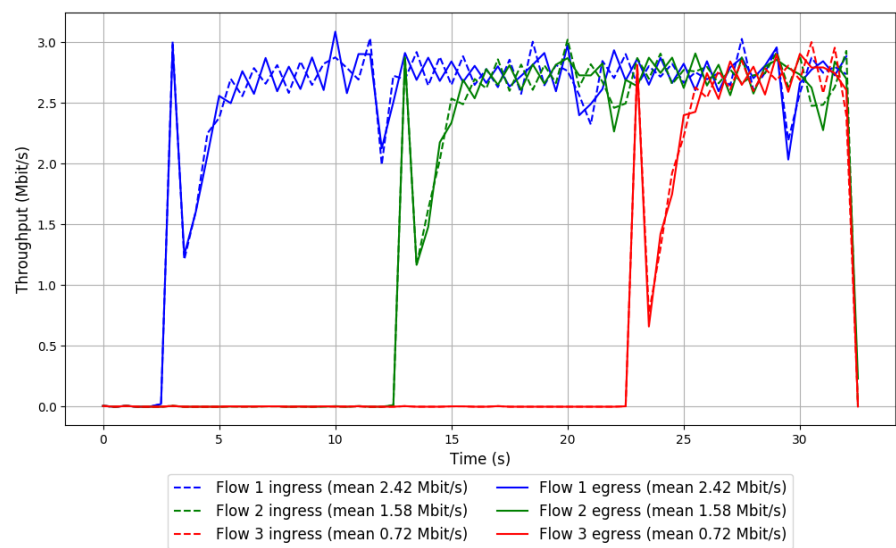
-- Flow 3:

Average throughput: 0.72 Mbit/s

95th percentile per-packet one-way delay: 19.501 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-03-06 20:20:09

End at: 2018-03-06 20:20:39

Local clock offset: 0.517 ms

Remote clock offset: 0.839 ms

Below is generated by plot.py at 2018-03-07 01:10:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.71 Mbit/s

95th percentile per-packet one-way delay: 19.273 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.42 Mbit/s

95th percentile per-packet one-way delay: 19.204 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.58 Mbit/s

95th percentile per-packet one-way delay: 19.306 ms

Loss rate: 0.00%

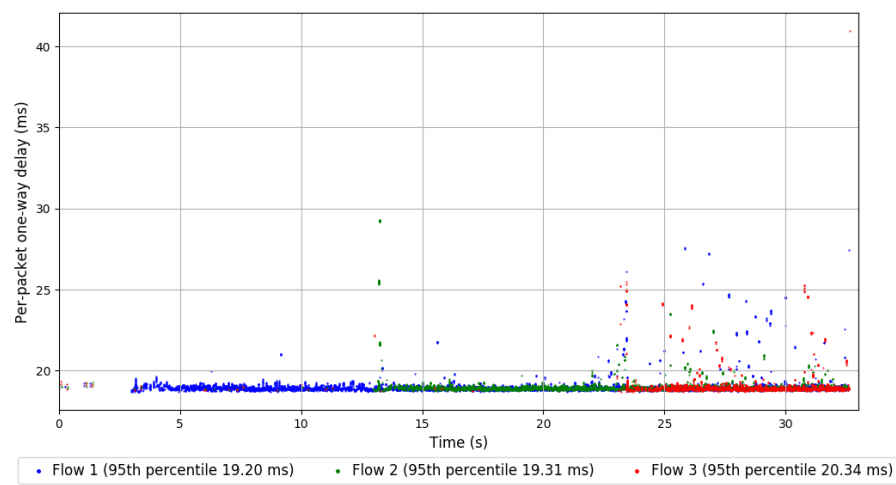
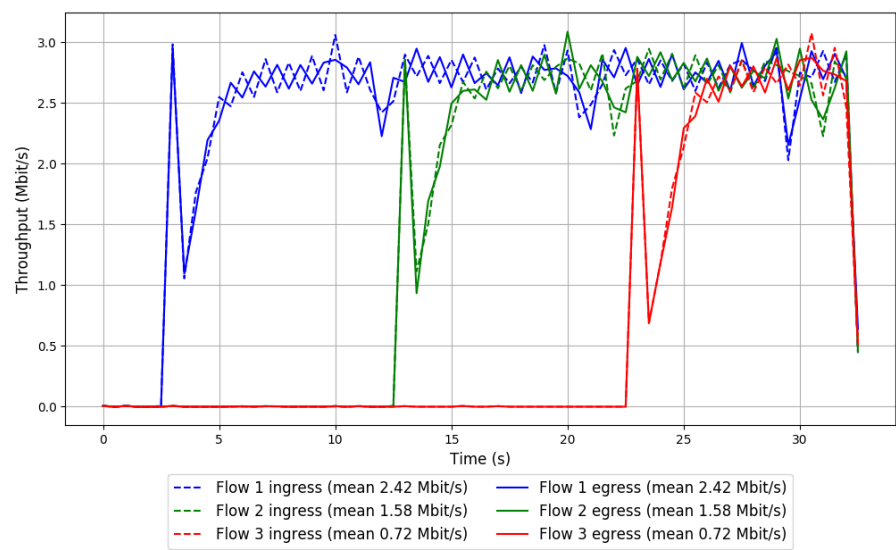
-- Flow 3:

Average throughput: 0.72 Mbit/s

95th percentile per-packet one-way delay: 20.345 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-03-06 20:49:43

End at: 2018-03-06 20:50:13

Local clock offset: -6.405 ms

Remote clock offset: 2.078 ms

Below is generated by plot.py at 2018-03-07 01:10:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.73 Mbit/s

95th percentile per-packet one-way delay: 19.000 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.42 Mbit/s

95th percentile per-packet one-way delay: 19.031 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.59 Mbit/s

95th percentile per-packet one-way delay: 17.725 ms

Loss rate: 0.00%

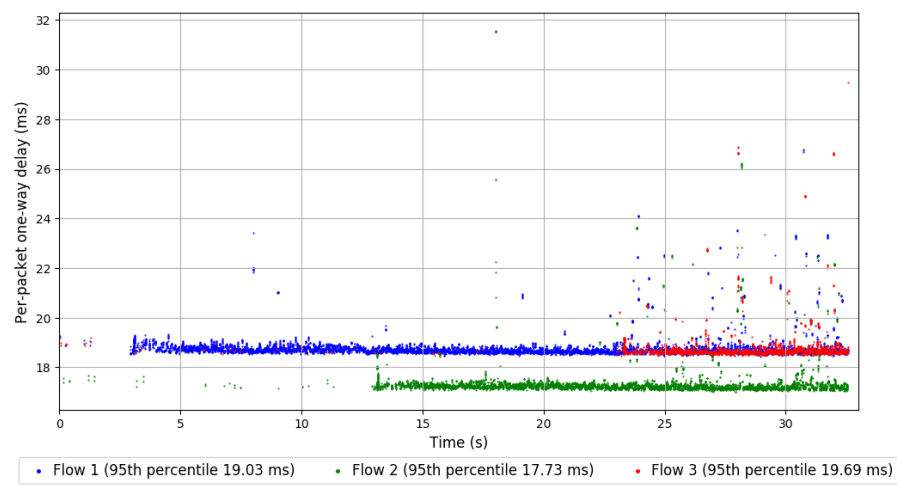
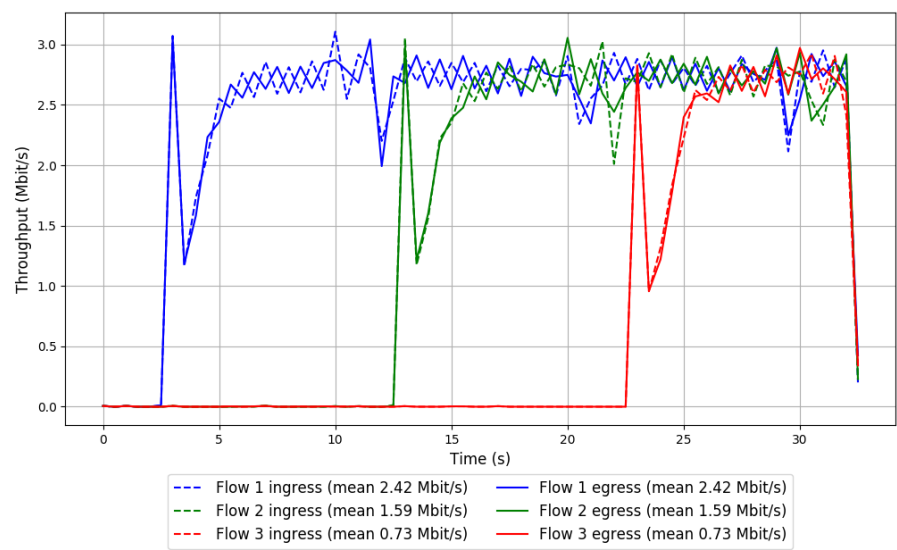
-- Flow 3:

Average throughput: 0.73 Mbit/s

95th percentile per-packet one-way delay: 19.693 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-03-06 21:19:09

End at: 2018-03-06 21:19:39

Local clock offset: -6.961 ms

Remote clock offset: 2.809 ms

Below is generated by plot.py at 2018-03-07 01:10:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.71 Mbit/s

95th percentile per-packet one-way delay: 19.812 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.41 Mbit/s

95th percentile per-packet one-way delay: 19.557 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.58 Mbit/s

95th percentile per-packet one-way delay: 20.310 ms

Loss rate: 0.00%

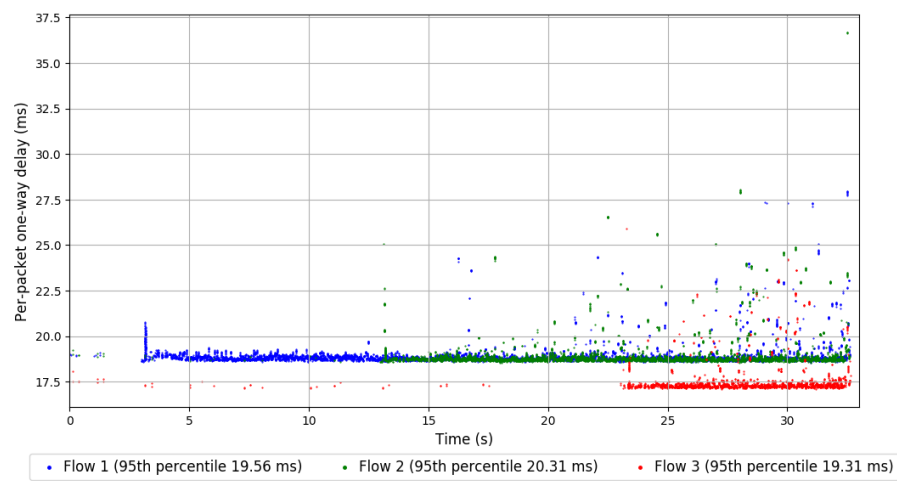
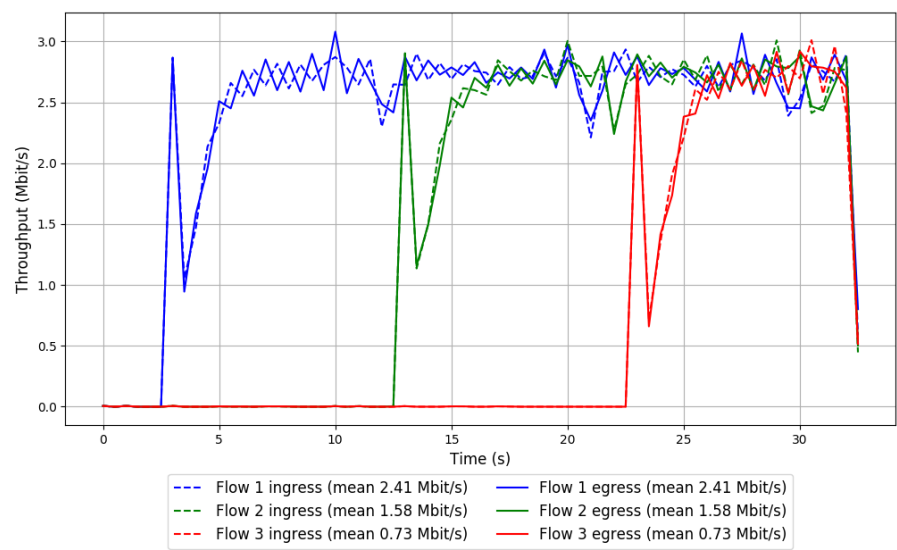
-- Flow 3:

Average throughput: 0.73 Mbit/s

95th percentile per-packet one-way delay: 19.308 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2018-03-06 16:43:47

End at: 2018-03-06 16:44:17

Local clock offset: -6.193 ms

Remote clock offset: 2.013 ms

Below is generated by plot.py at 2018-03-07 01:10:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 49.14 Mbit/s

95th percentile per-packet one-way delay: 21.513 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 24.80 Mbit/s

95th percentile per-packet one-way delay: 21.644 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 24.63 Mbit/s

95th percentile per-packet one-way delay: 21.458 ms

Loss rate: 0.02%

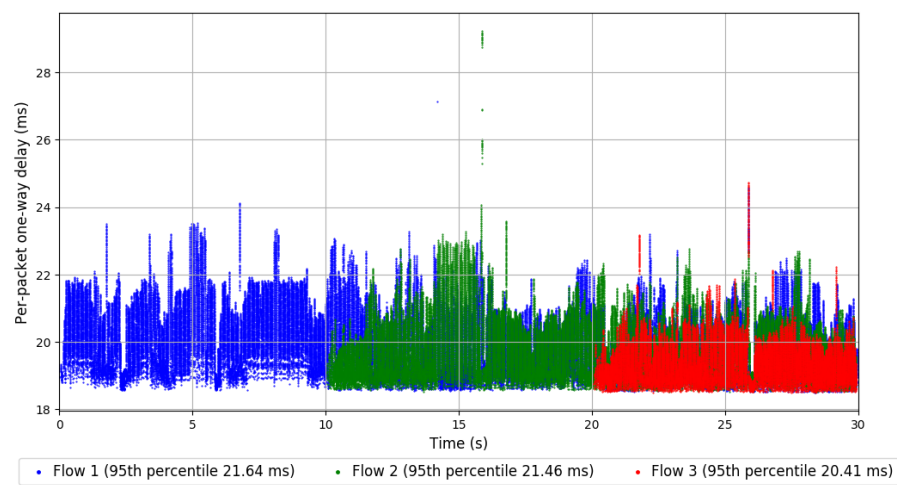
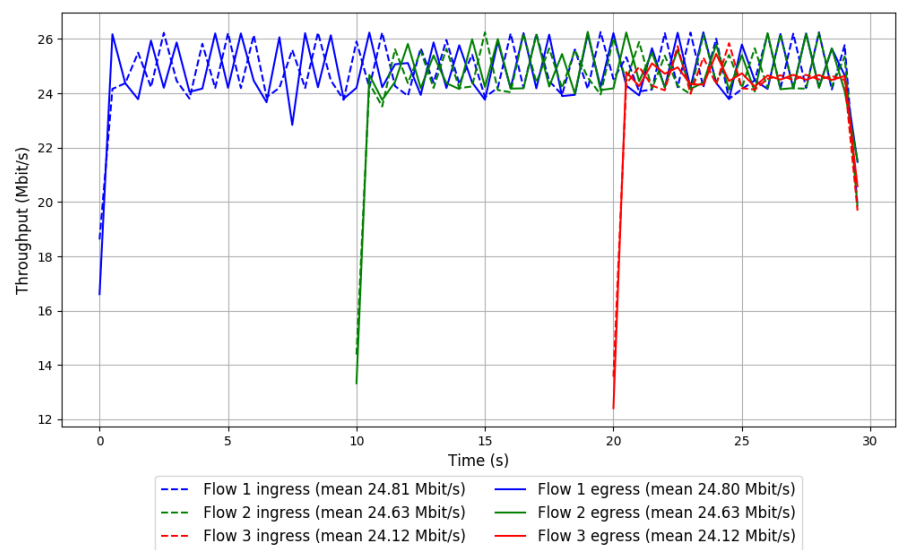
-- Flow 3:

Average throughput: 24.12 Mbit/s

95th percentile per-packet one-way delay: 20.407 ms

Loss rate: 0.00%

Run 1: Report of Sprout — Data Link

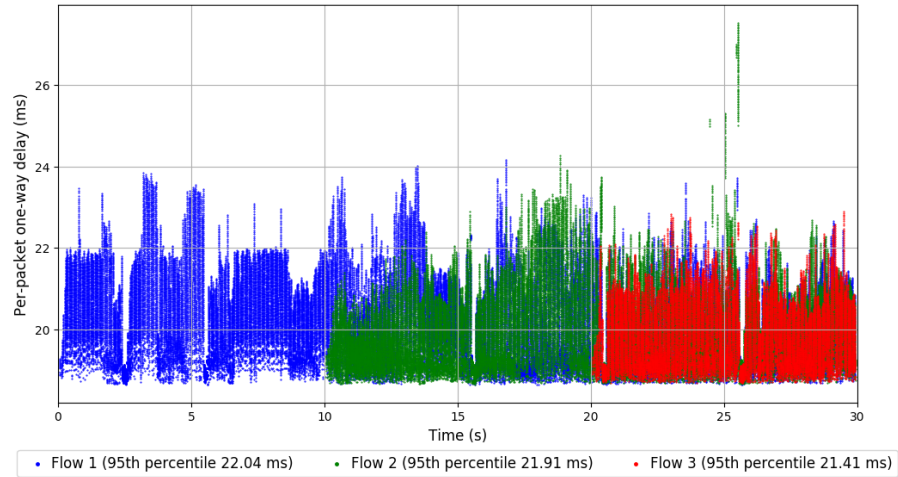
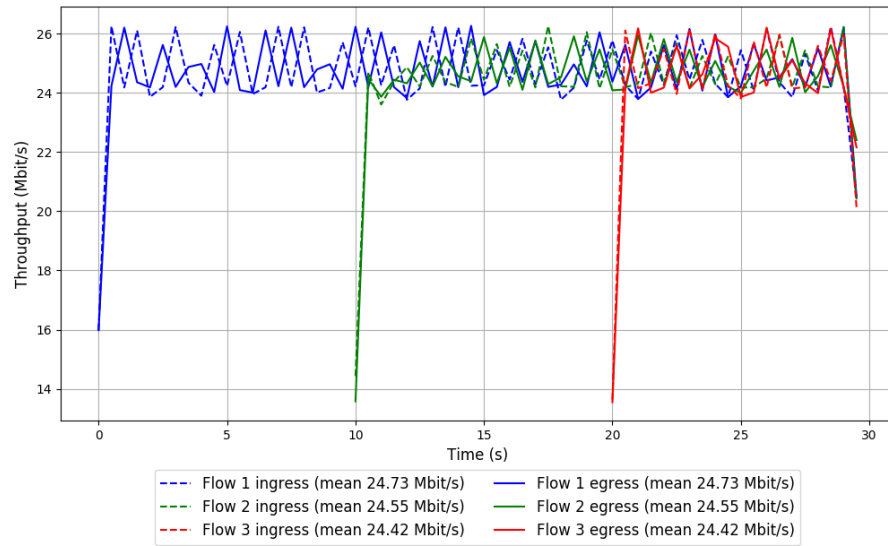


Run 2: Statistics of Sprout

Start at: 2018-03-06 17:13:47
End at: 2018-03-06 17:14:17
Local clock offset: -9.041 ms
Remote clock offset: 2.223 ms

```
# Below is generated by plot.py at 2018-03-07 01:10:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 49.12 Mbit/s
95th percentile per-packet one-way delay: 21.908 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 24.73 Mbit/s
95th percentile per-packet one-way delay: 22.041 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 24.55 Mbit/s
95th percentile per-packet one-way delay: 21.907 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 24.42 Mbit/s
95th percentile per-packet one-way delay: 21.408 ms
Loss rate: 0.00%
```

Run 2: Report of Sprout — Data Link

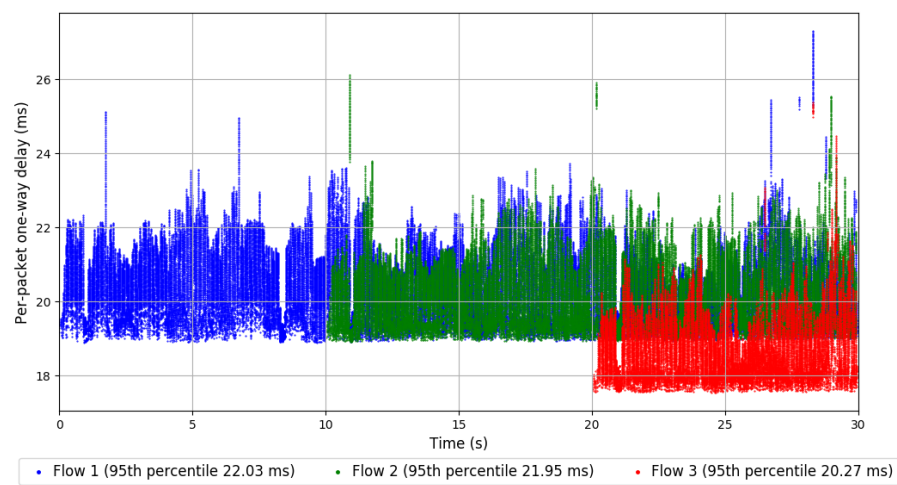
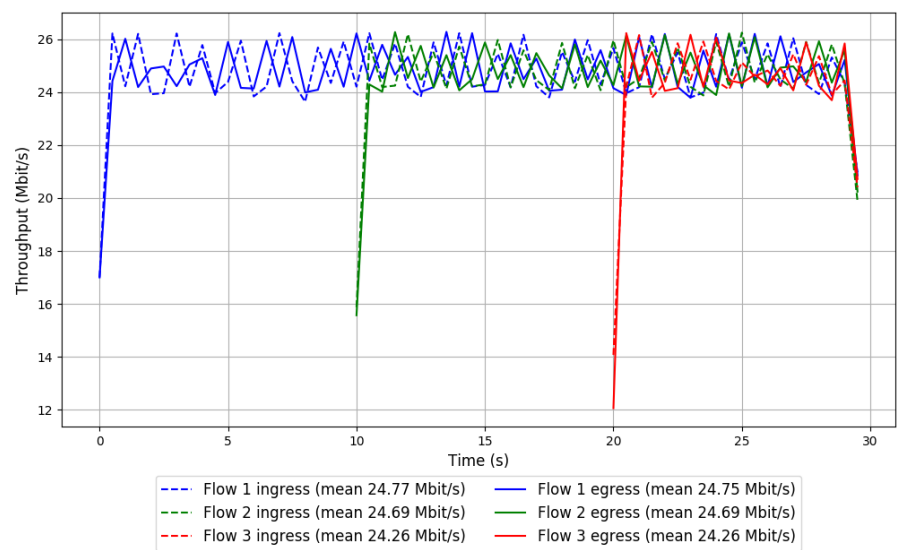


Run 3: Statistics of Sprout

Start at: 2018-03-06 17:43:41
End at: 2018-03-06 17:44:11
Local clock offset: -7.923 ms
Remote clock offset: 0.953 ms

```
# Below is generated by plot.py at 2018-03-07 01:10:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 49.19 Mbit/s
95th percentile per-packet one-way delay: 21.914 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 24.75 Mbit/s
95th percentile per-packet one-way delay: 22.027 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 24.69 Mbit/s
95th percentile per-packet one-way delay: 21.952 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 24.26 Mbit/s
95th percentile per-packet one-way delay: 20.266 ms
Loss rate: 0.00%
```


Run 3: Report of Sprout — Data Link

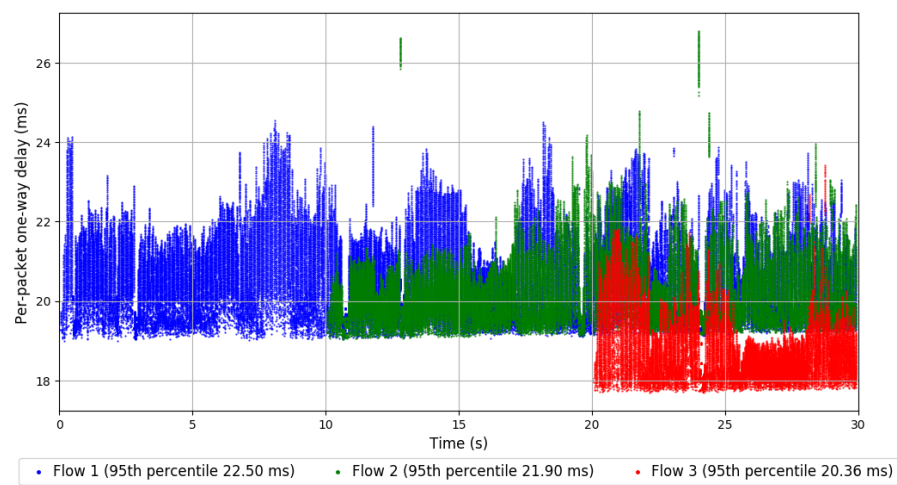
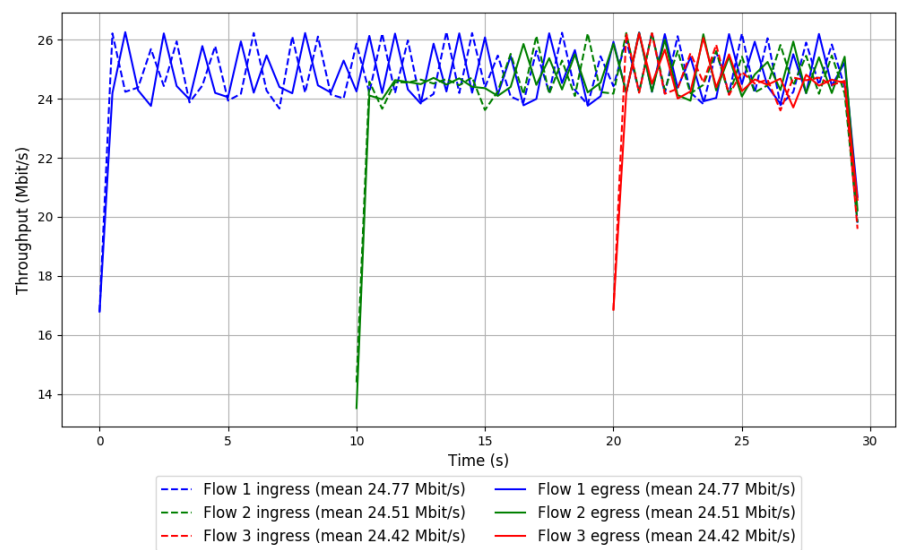


Run 4: Statistics of Sprout

Start at: 2018-03-06 18:13:39
End at: 2018-03-06 18:14:09
Local clock offset: -3.339 ms
Remote clock offset: 0.84 ms

```
# Below is generated by plot.py at 2018-03-07 01:10:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 49.14 Mbit/s
95th percentile per-packet one-way delay: 22.211 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 24.77 Mbit/s
95th percentile per-packet one-way delay: 22.505 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 24.51 Mbit/s
95th percentile per-packet one-way delay: 21.904 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 24.42 Mbit/s
95th percentile per-packet one-way delay: 20.365 ms
Loss rate: 0.00%
```

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-03-06 18:43:23

End at: 2018-03-06 18:43:53

Local clock offset: 3.45 ms

Remote clock offset: 2.812 ms

Below is generated by plot.py at 2018-03-07 01:10:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 49.15 Mbit/s

95th percentile per-packet one-way delay: 20.785 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 24.76 Mbit/s

95th percentile per-packet one-way delay: 20.965 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 24.63 Mbit/s

95th percentile per-packet one-way delay: 20.695 ms

Loss rate: 0.04%

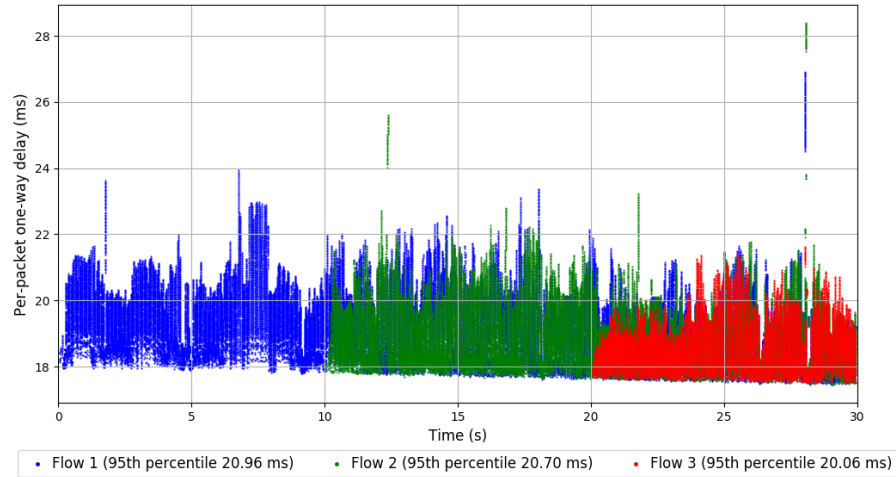
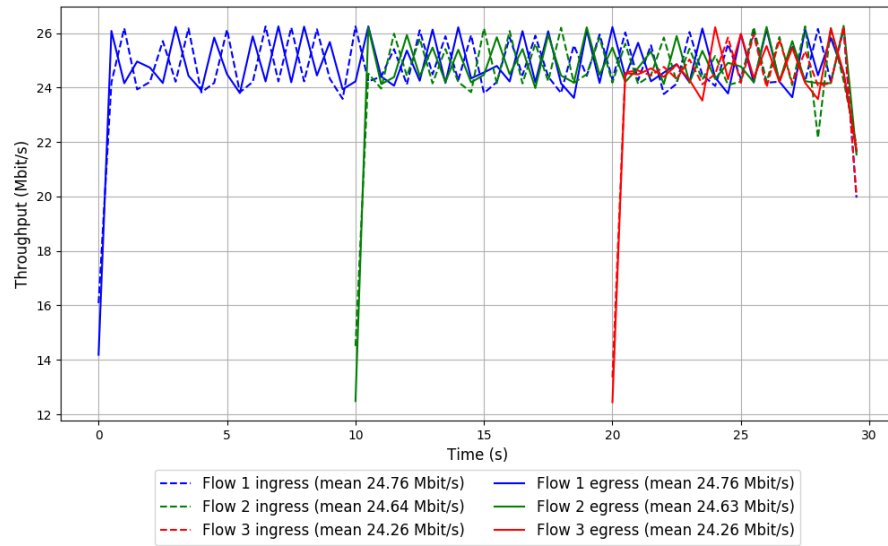
-- Flow 3:

Average throughput: 24.26 Mbit/s

95th percentile per-packet one-way delay: 20.064 ms

Loss rate: 0.01%

Run 5: Report of Sprout — Data Link

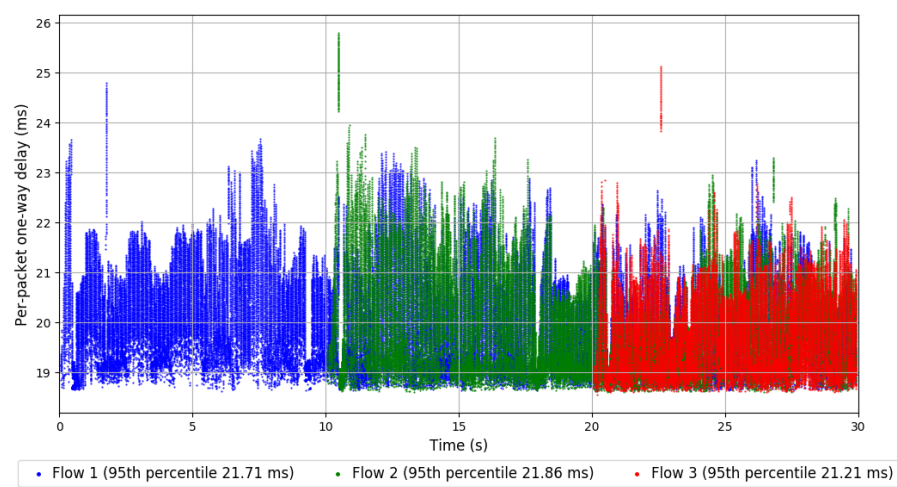
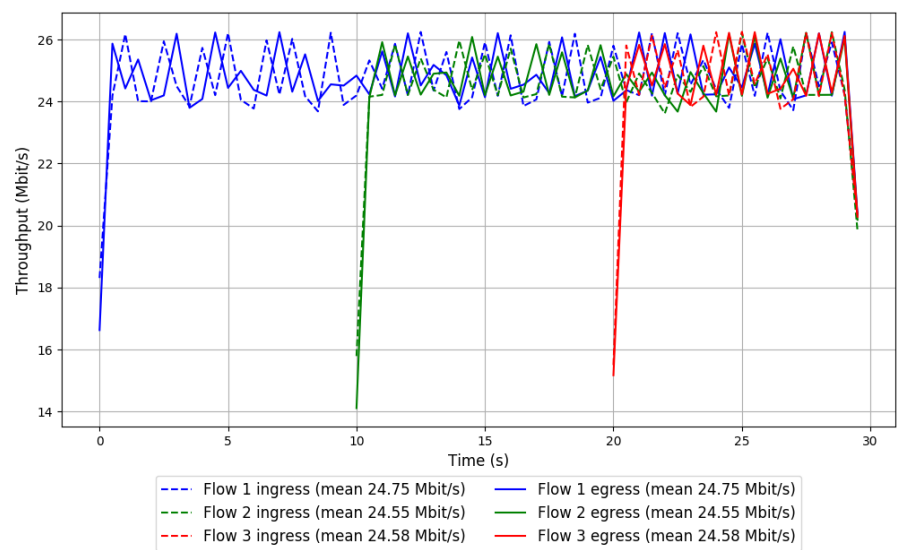


Run 6: Statistics of Sprout

Start at: 2018-03-06 19:13:10
End at: 2018-03-06 19:13:40
Local clock offset: -6.032 ms
Remote clock offset: 1.289 ms

```
# Below is generated by plot.py at 2018-03-07 01:10:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 49.19 Mbit/s
95th percentile per-packet one-way delay: 21.695 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 24.75 Mbit/s
95th percentile per-packet one-way delay: 21.713 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 24.55 Mbit/s
95th percentile per-packet one-way delay: 21.862 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 24.58 Mbit/s
95th percentile per-packet one-way delay: 21.210 ms
Loss rate: 0.00%
```

Run 6: Report of Sprout — Data Link

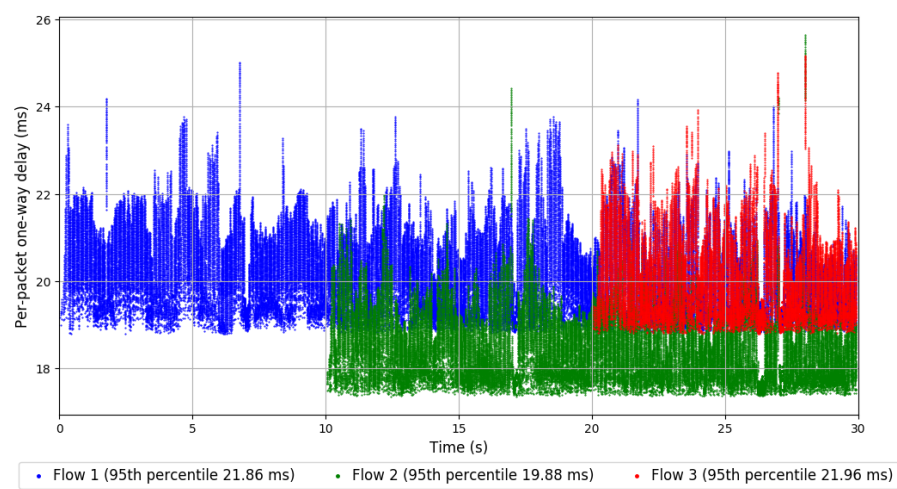
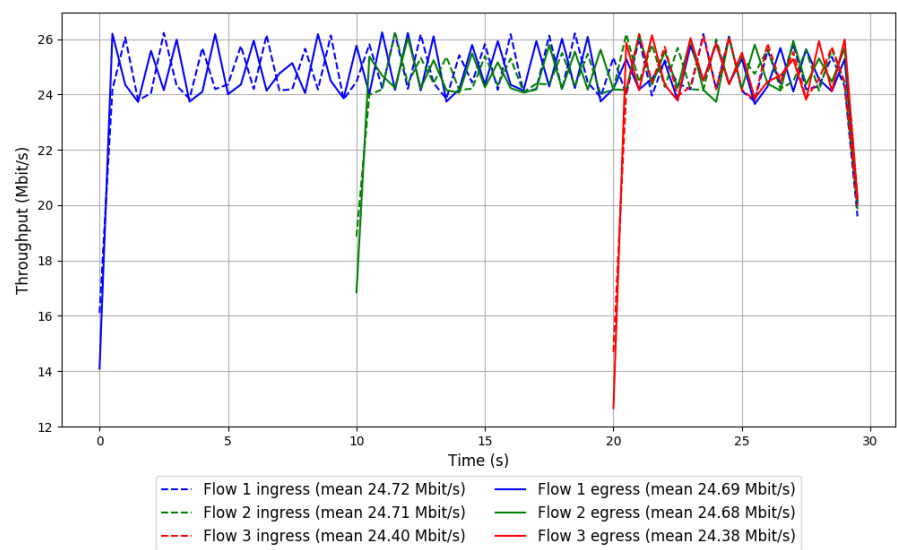


Run 7: Statistics of Sprout

Start at: 2018-03-06 19:42:23
End at: 2018-03-06 19:42:53
Local clock offset: -1.623 ms
Remote clock offset: 1.164 ms

```
# Below is generated by plot.py at 2018-03-07 01:10:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 49.12 Mbit/s
95th percentile per-packet one-way delay: 21.675 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 24.69 Mbit/s
95th percentile per-packet one-way delay: 21.864 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 24.68 Mbit/s
95th percentile per-packet one-way delay: 19.880 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 24.38 Mbit/s
95th percentile per-packet one-way delay: 21.965 ms
Loss rate: 0.10%
```


Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-03-06 20:11:53

End at: 2018-03-06 20:12:23

Local clock offset: 0.017 ms

Remote clock offset: 0.893 ms

Below is generated by plot.py at 2018-03-07 01:10:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 49.22 Mbit/s

95th percentile per-packet one-way delay: 22.075 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 24.70 Mbit/s

95th percentile per-packet one-way delay: 22.174 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 24.62 Mbit/s

95th percentile per-packet one-way delay: 22.180 ms

Loss rate: 0.07%

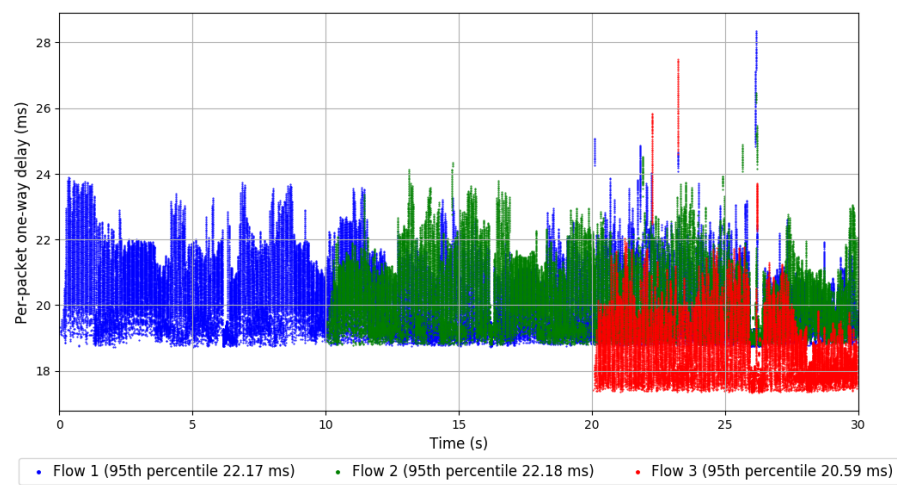
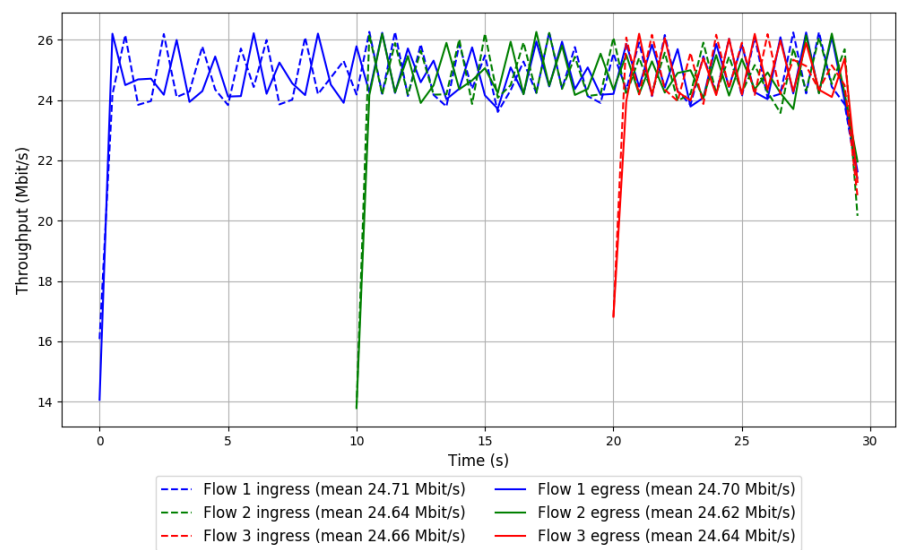
-- Flow 3:

Average throughput: 24.64 Mbit/s

95th percentile per-packet one-way delay: 20.586 ms

Loss rate: 0.05%

Run 8: Report of Sprout — Data Link

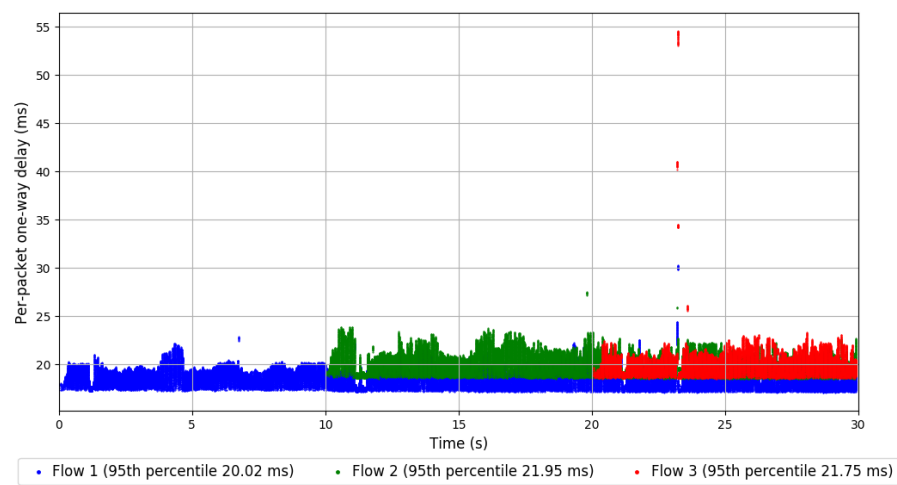
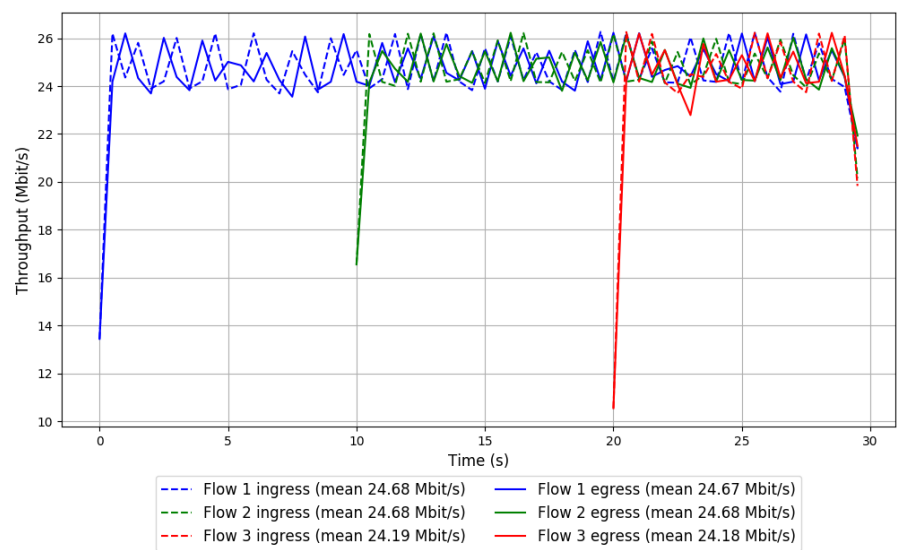


Run 9: Statistics of Sprout

Start at: 2018-03-06 20:41:38
End at: 2018-03-06 20:42:08
Local clock offset: -5.048 ms
Remote clock offset: 1.594 ms

Below is generated by plot.py at 2018-03-07 01:10:25
Datalink statistics
-- Total of 3 flows:
Average throughput: 49.08 Mbit/s
95th percentile per-packet one-way delay: 21.423 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 24.67 Mbit/s
95th percentile per-packet one-way delay: 20.016 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 24.68 Mbit/s
95th percentile per-packet one-way delay: 21.950 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 24.18 Mbit/s
95th percentile per-packet one-way delay: 21.746 ms
Loss rate: 0.00%

Run 9: Report of Sprout — Data Link

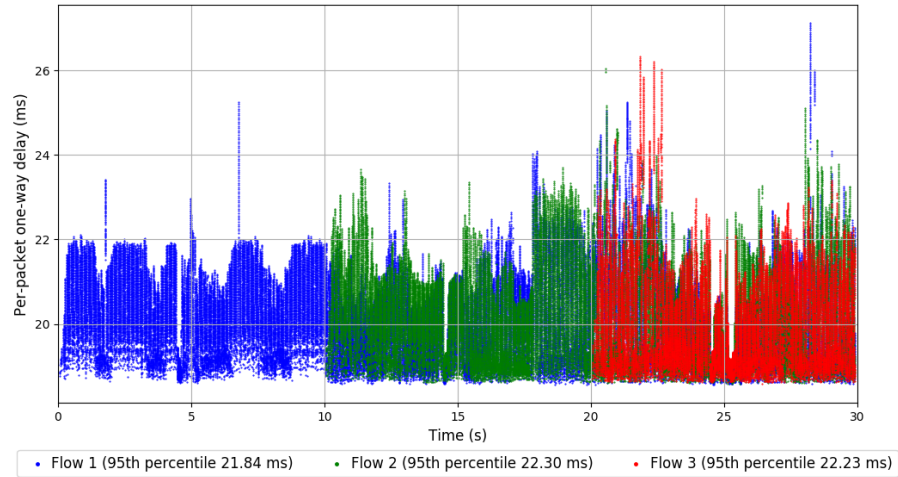
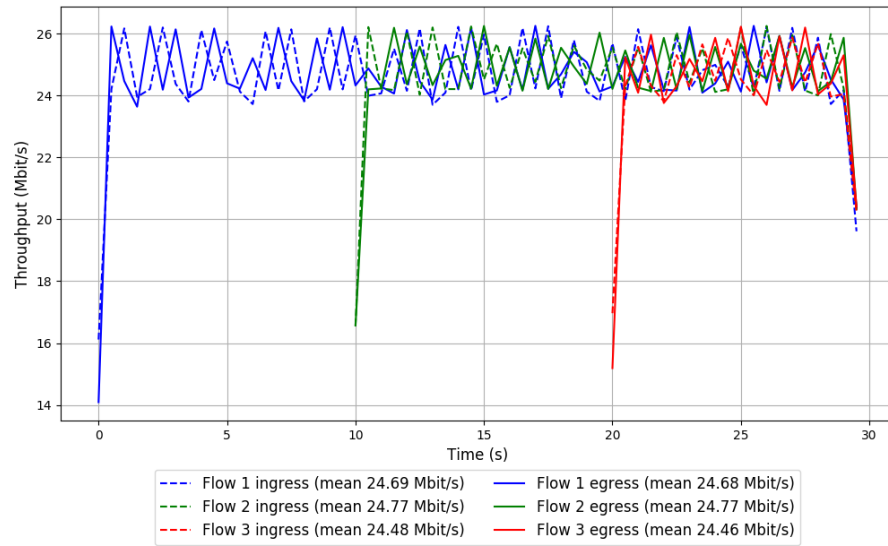


Run 10: Statistics of Sprout

Start at: 2018-03-06 21:10:54
End at: 2018-03-06 21:11:24
Local clock offset: -6.728 ms
Remote clock offset: 2.617 ms

Below is generated by plot.py at 2018-03-07 01:10:25
Datalink statistics
-- Total of 3 flows:
Average throughput: 49.23 Mbit/s
95th percentile per-packet one-way delay: 22.067 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 24.68 Mbit/s
95th percentile per-packet one-way delay: 21.835 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 24.77 Mbit/s
95th percentile per-packet one-way delay: 22.296 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 24.46 Mbit/s
95th percentile per-packet one-way delay: 22.235 ms
Loss rate: 0.08%

Run 10: Report of Sprout — Data Link

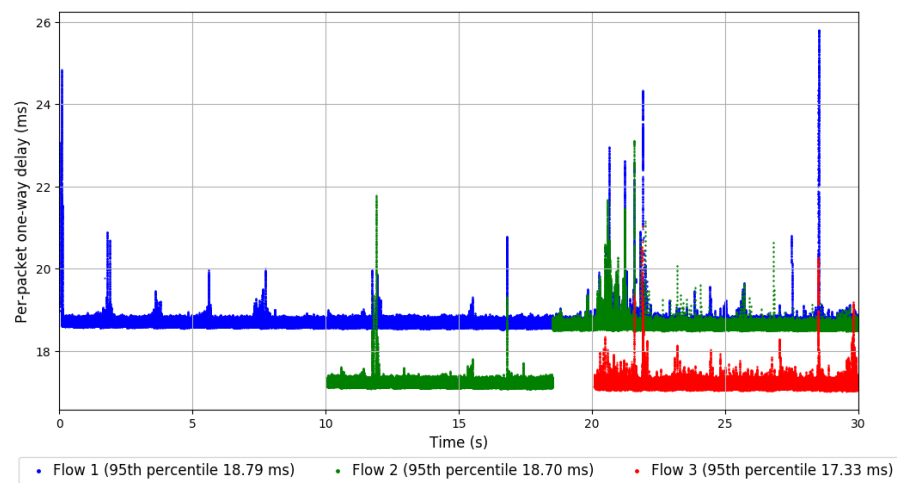
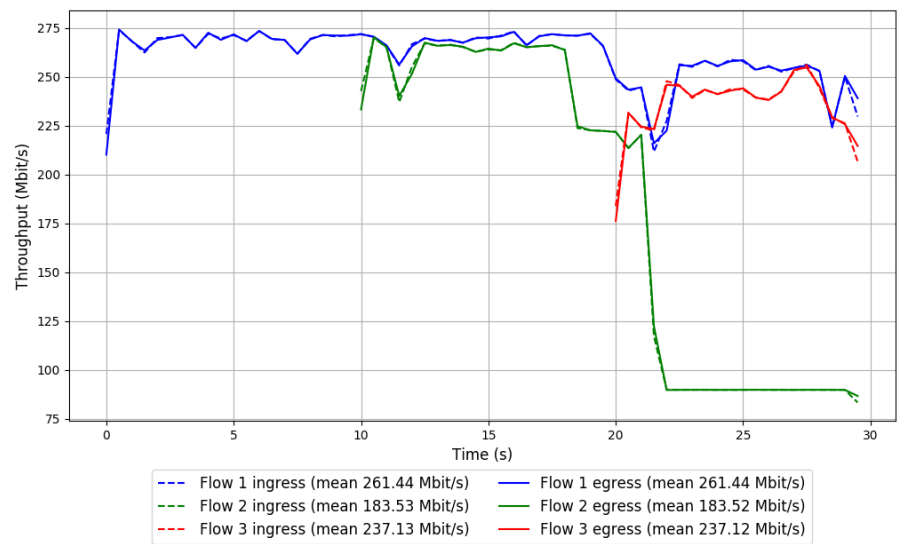


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-03-06 16:53:21
End at: 2018-03-06 16:53:51
Local clock offset: -7.248 ms
Remote clock offset: 2.315 ms

# Below is generated by plot.py at 2018-03-07 01:16:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 462.15 Mbit/s
95th percentile per-packet one-way delay: 18.761 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 261.44 Mbit/s
95th percentile per-packet one-way delay: 18.785 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 183.52 Mbit/s
95th percentile per-packet one-way delay: 18.702 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 237.12 Mbit/s
95th percentile per-packet one-way delay: 17.328 ms
Loss rate: 0.00%
```


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



Run 2: Statistics of TaoVA-100x

Start at: 2018-03-06 17:23:40

End at: 2018-03-06 17:24:10

Local clock offset: -9.86 ms

Remote clock offset: 1.36 ms

Below is generated by plot.py at 2018-03-07 01:16:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 478.64 Mbit/s

95th percentile per-packet one-way delay: 18.821 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 232.12 Mbit/s

95th percentile per-packet one-way delay: 18.769 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 247.54 Mbit/s

95th percentile per-packet one-way delay: 18.842 ms

Loss rate: 0.03%

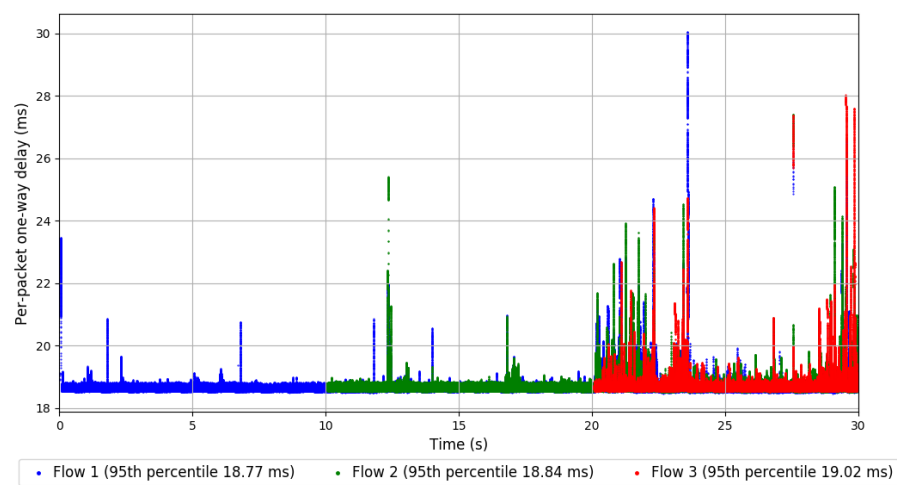
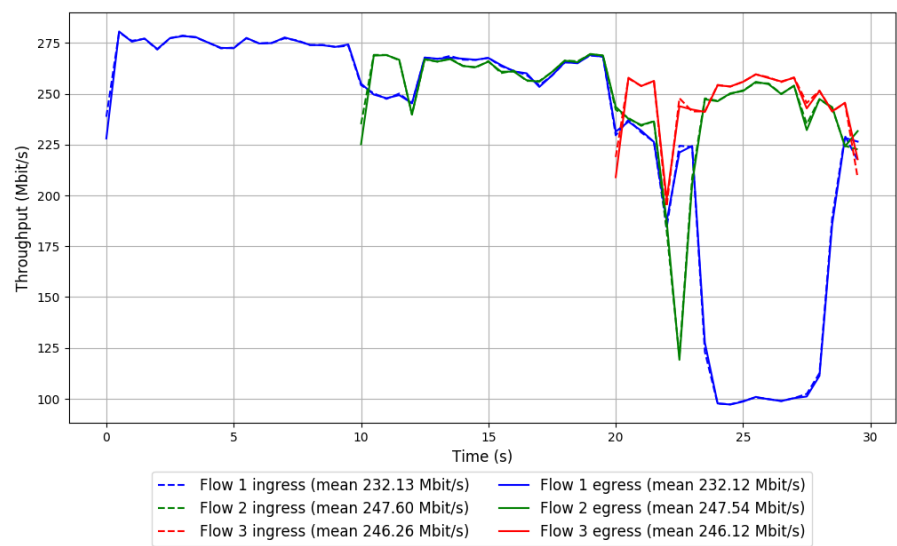
-- Flow 3:

Average throughput: 246.12 Mbit/s

95th percentile per-packet one-way delay: 19.020 ms

Loss rate: 0.06%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-03-06 17:53:23

End at: 2018-03-06 17:53:53

Local clock offset: -6.67 ms

Remote clock offset: 0.971 ms

Below is generated by plot.py at 2018-03-07 01:16:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 480.10 Mbit/s

95th percentile per-packet one-way delay: 19.083 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 243.65 Mbit/s

95th percentile per-packet one-way delay: 17.625 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 240.66 Mbit/s

95th percentile per-packet one-way delay: 19.289 ms

Loss rate: 0.00%

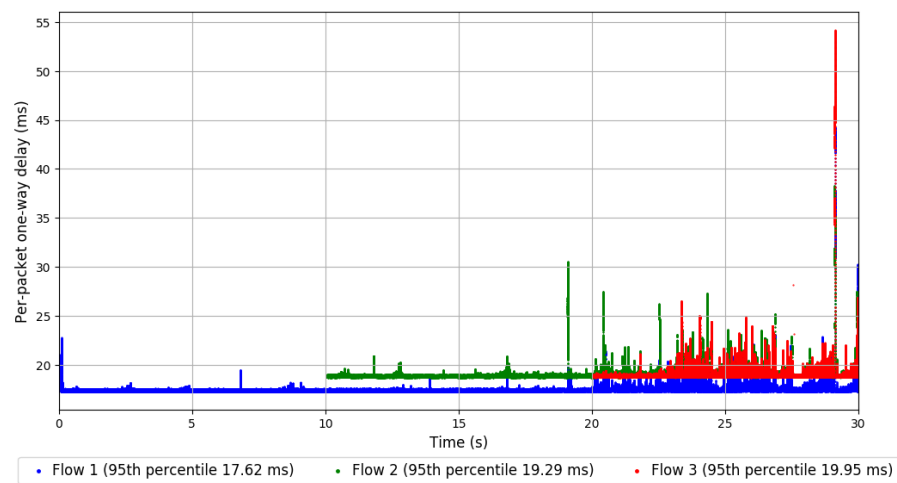
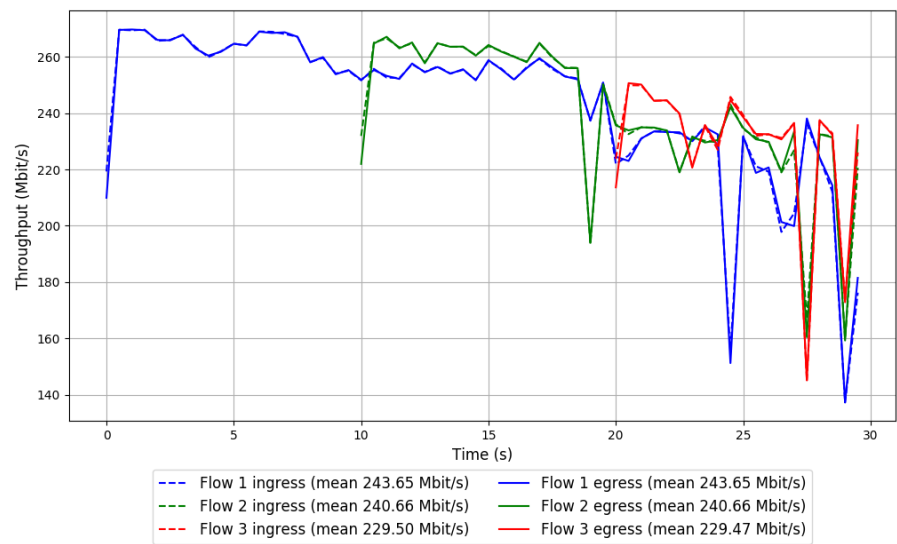
-- Flow 3:

Average throughput: 229.47 Mbit/s

95th percentile per-packet one-way delay: 19.954 ms

Loss rate: 0.01%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-03-06 18:23:22

End at: 2018-03-06 18:23:52

Local clock offset: 0.14 ms

Remote clock offset: 1.493 ms

Below is generated by plot.py at 2018-03-07 01:16:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 481.12 Mbit/s

95th percentile per-packet one-way delay: 19.470 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 247.62 Mbit/s

95th percentile per-packet one-way delay: 19.214 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 243.58 Mbit/s

95th percentile per-packet one-way delay: 19.557 ms

Loss rate: 0.00%

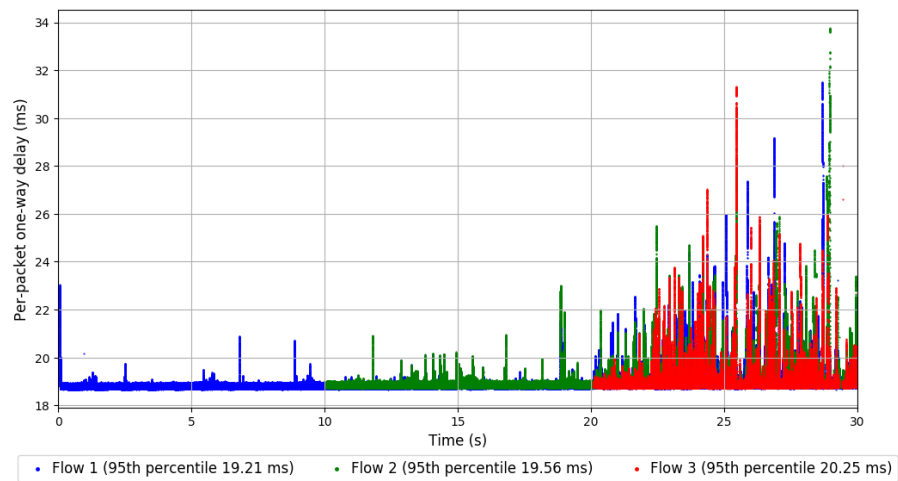
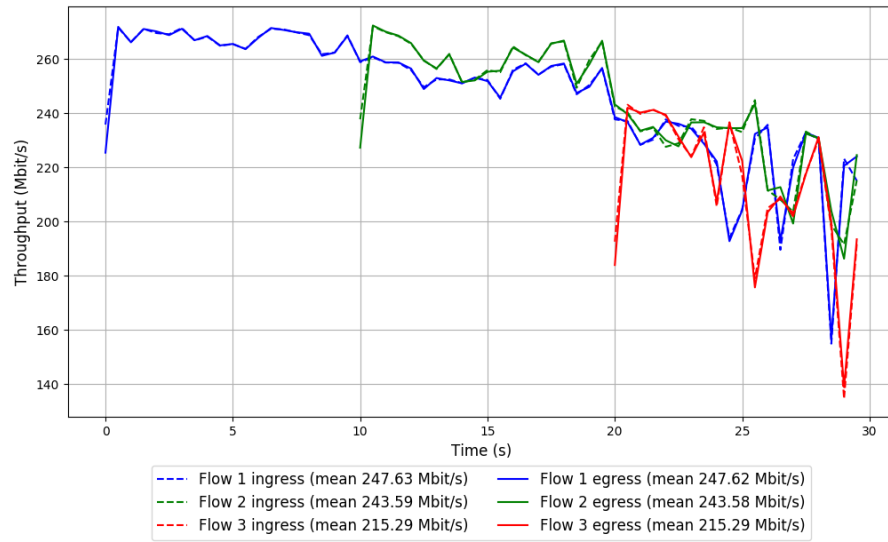
-- Flow 3:

Average throughput: 215.29 Mbit/s

95th percentile per-packet one-way delay: 20.246 ms

Loss rate: 0.00%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-03-06 18:52:59

End at: 2018-03-06 18:53:29

Local clock offset: -3.056 ms

Remote clock offset: 3.154 ms

Below is generated by plot.py at 2018-03-07 01:17:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 484.42 Mbit/s

95th percentile per-packet one-way delay: 19.357 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 249.84 Mbit/s

95th percentile per-packet one-way delay: 18.972 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 241.61 Mbit/s

95th percentile per-packet one-way delay: 19.506 ms

Loss rate: 0.01%

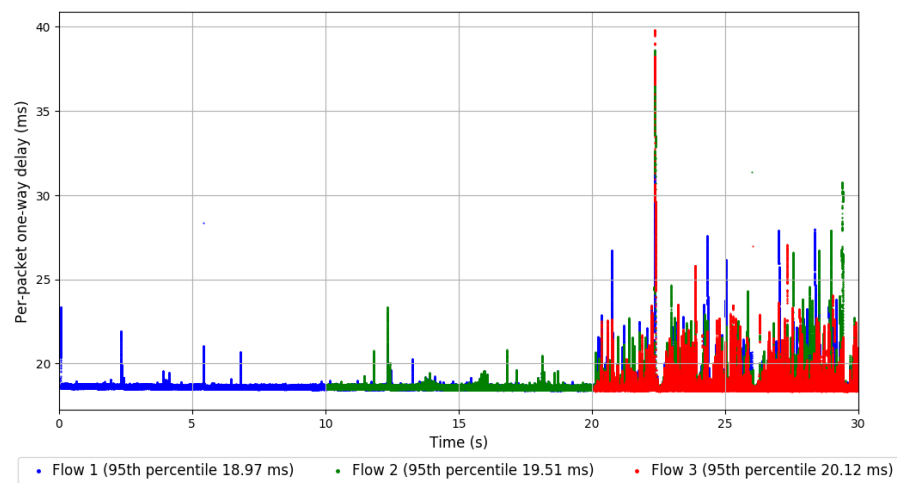
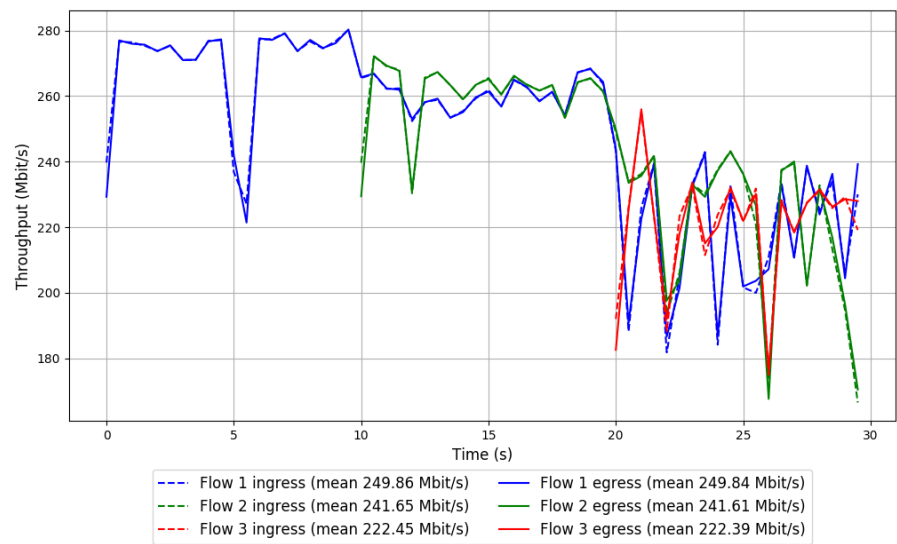
-- Flow 3:

Average throughput: 222.39 Mbit/s

95th percentile per-packet one-way delay: 20.118 ms

Loss rate: 0.03%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-03-06 19:22:39

End at: 2018-03-06 19:23:09

Local clock offset: -4.287 ms

Remote clock offset: 1.033 ms

Below is generated by plot.py at 2018-03-07 01:17:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 464.71 Mbit/s

95th percentile per-packet one-way delay: 19.148 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 256.87 Mbit/s

95th percentile per-packet one-way delay: 19.147 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 188.09 Mbit/s

95th percentile per-packet one-way delay: 17.725 ms

Loss rate: 0.00%

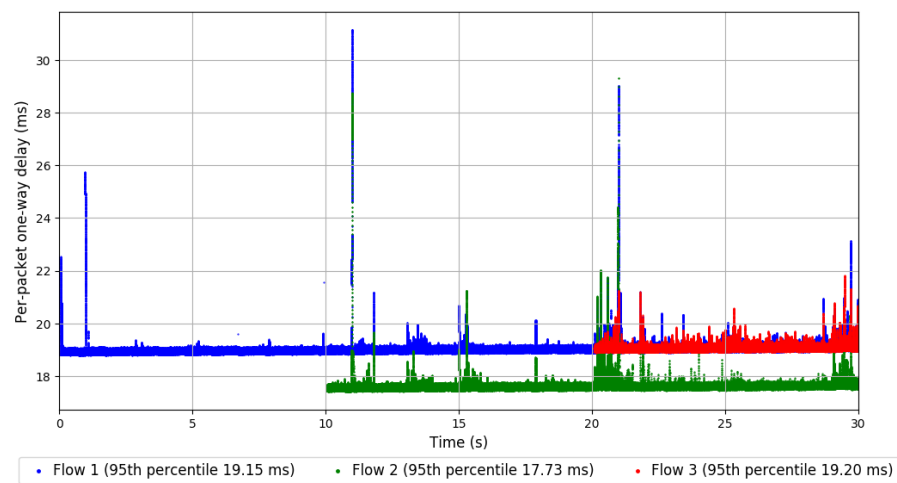
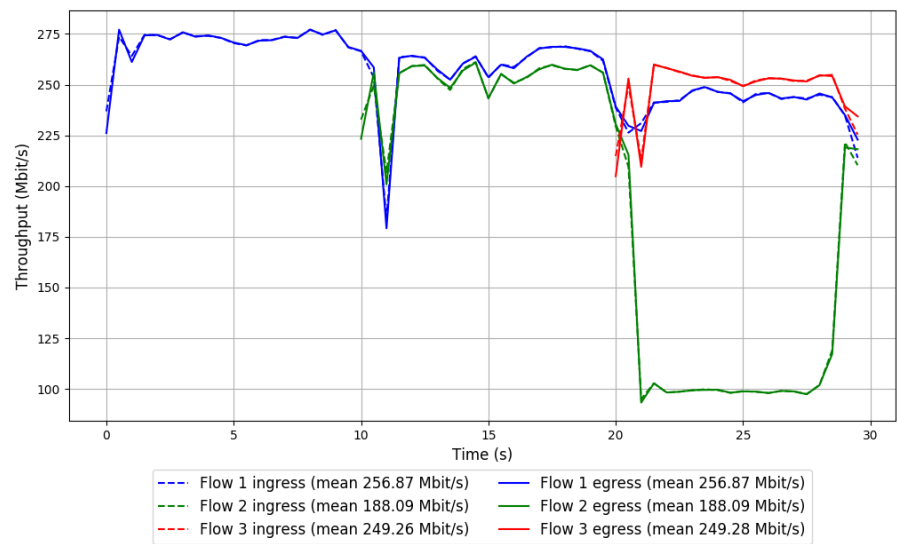
-- Flow 3:

Average throughput: 249.28 Mbit/s

95th percentile per-packet one-way delay: 19.199 ms

Loss rate: 0.00%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-03-06 19:51:48

End at: 2018-03-06 19:52:18

Local clock offset: -1.044 ms

Remote clock offset: 1.066 ms

Below is generated by plot.py at 2018-03-07 01:22:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 484.11 Mbit/s

95th percentile per-packet one-way delay: 19.213 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 244.76 Mbit/s

95th percentile per-packet one-way delay: 19.145 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 244.91 Mbit/s

95th percentile per-packet one-way delay: 19.412 ms

Loss rate: 0.01%

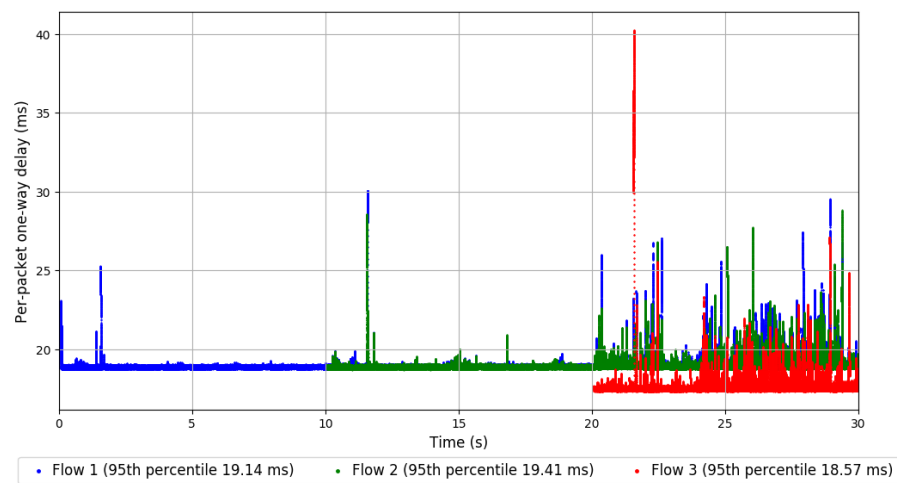
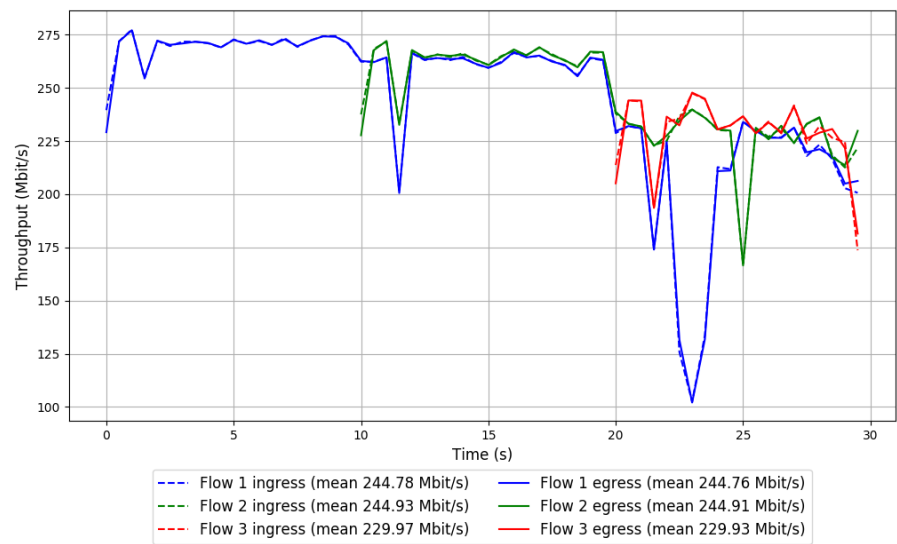
-- Flow 3:

Average throughput: 229.93 Mbit/s

95th percentile per-packet one-way delay: 18.575 ms

Loss rate: 0.01%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-03-06 20:21:27

End at: 2018-03-06 20:21:57

Local clock offset: 0.587 ms

Remote clock offset: 0.868 ms

Below is generated by plot.py at 2018-03-07 01:23:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 487.37 Mbit/s

95th percentile per-packet one-way delay: 19.685 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 251.12 Mbit/s

95th percentile per-packet one-way delay: 19.361 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 243.86 Mbit/s

95th percentile per-packet one-way delay: 19.497 ms

Loss rate: 0.02%

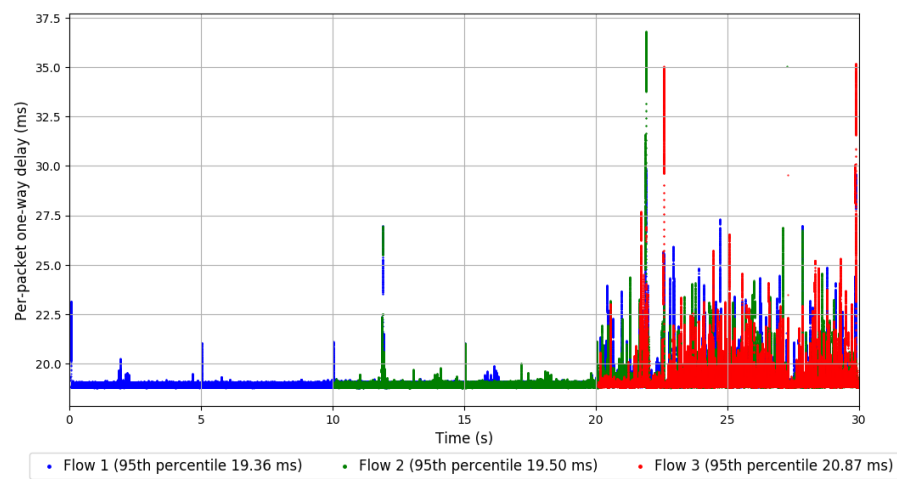
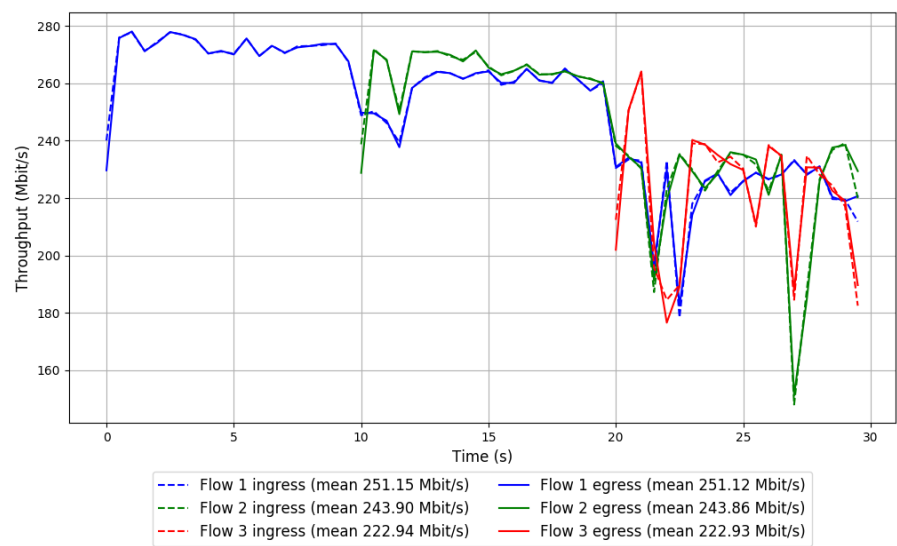
-- Flow 3:

Average throughput: 222.93 Mbit/s

95th percentile per-packet one-way delay: 20.872 ms

Loss rate: 0.00%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-03-06 20:51:02

End at: 2018-03-06 20:51:32

Local clock offset: -6.472 ms

Remote clock offset: 2.254 ms

Below is generated by plot.py at 2018-03-07 01:29:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 479.82 Mbit/s

95th percentile per-packet one-way delay: 19.164 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 248.28 Mbit/s

95th percentile per-packet one-way delay: 18.939 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 241.48 Mbit/s

95th percentile per-packet one-way delay: 19.115 ms

Loss rate: 0.00%

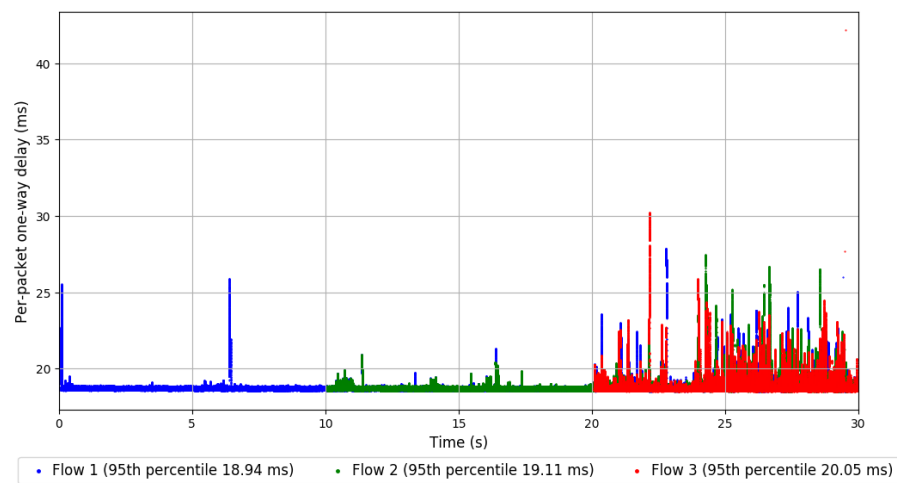
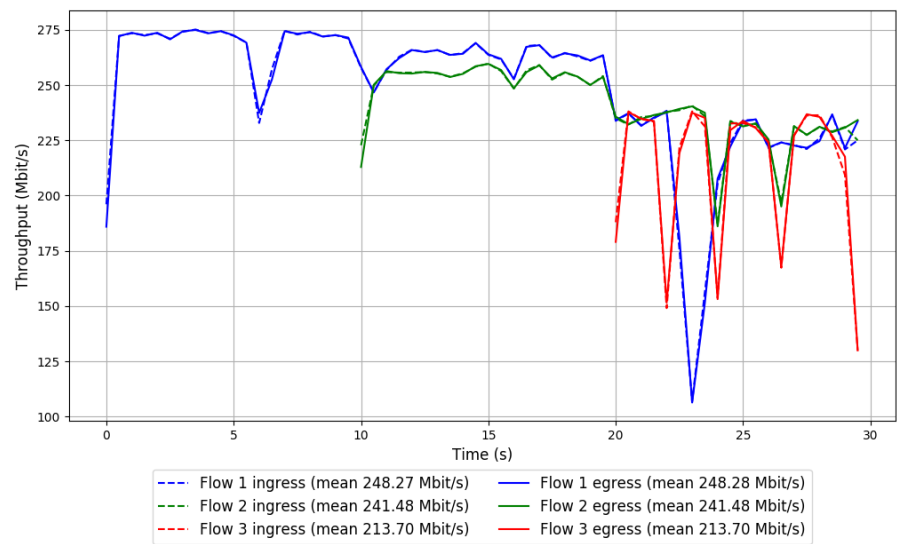
-- Flow 3:

Average throughput: 213.70 Mbit/s

95th percentile per-packet one-way delay: 20.055 ms

Loss rate: 0.00%

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

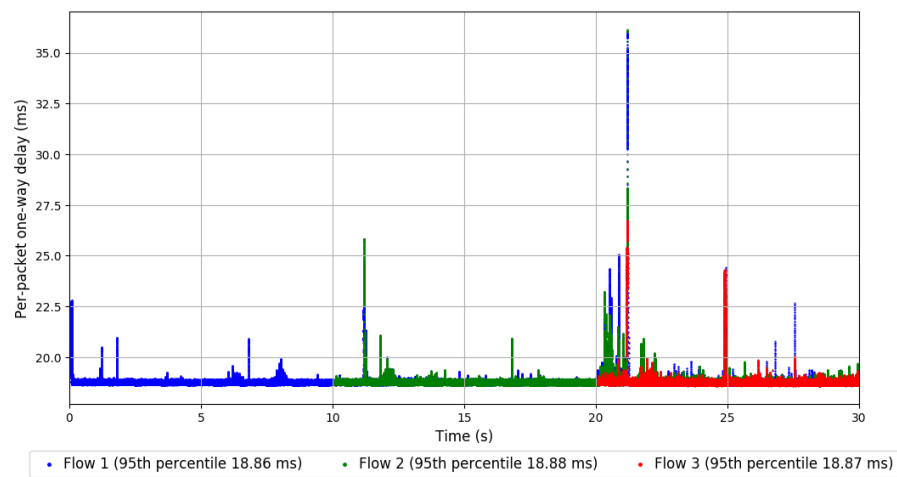
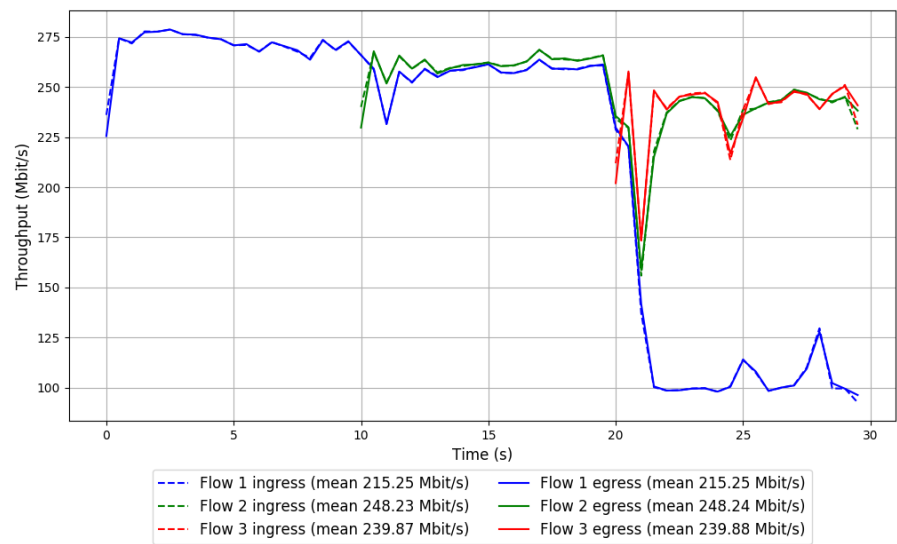


```
Run 10: Statistics of TaoVA-100x

Start at: 2018-03-06 21:20:27
End at: 2018-03-06 21:20:57
Local clock offset: -7.03 ms
Remote clock offset: 2.859 ms

# Below is generated by plot.py at 2018-03-07 01:29:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 460.01 Mbit/s
95th percentile per-packet one-way delay: 18.870 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 215.25 Mbit/s
95th percentile per-packet one-way delay: 18.860 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 248.24 Mbit/s
95th percentile per-packet one-way delay: 18.880 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 239.88 Mbit/s
95th percentile per-packet one-way delay: 18.871 ms
Loss rate: 0.00%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2018-03-06 17:08:36

End at: 2018-03-06 17:09:06

Local clock offset: -8.629 ms

Remote clock offset: 2.644 ms

Below is generated by plot.py at 2018-03-07 01:29:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 187.75 Mbit/s

95th percentile per-packet one-way delay: 19.609 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 103.98 Mbit/s

95th percentile per-packet one-way delay: 19.751 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 89.68 Mbit/s

95th percentile per-packet one-way delay: 18.075 ms

Loss rate: 0.02%

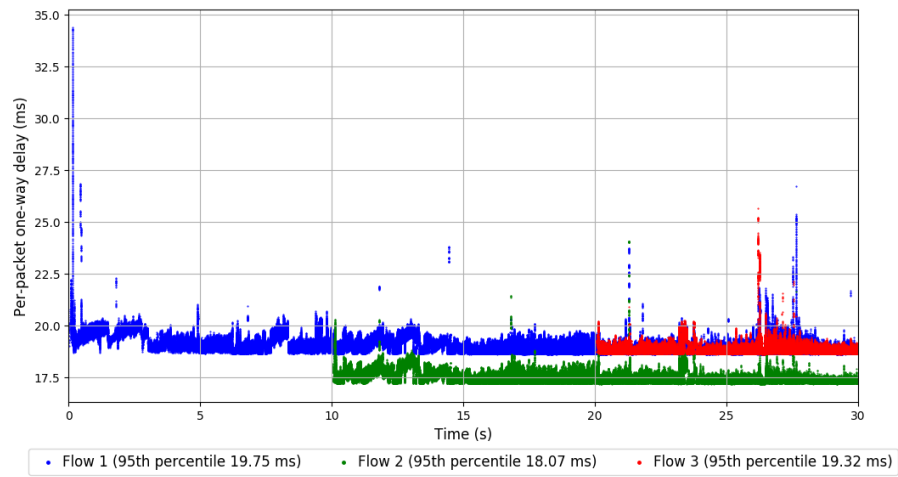
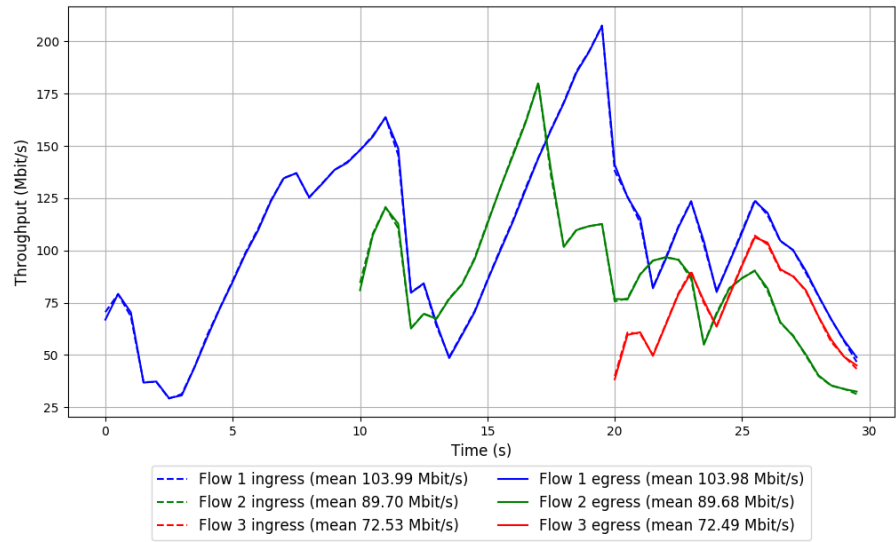
-- Flow 3:

Average throughput: 72.49 Mbit/s

95th percentile per-packet one-way delay: 19.319 ms

Loss rate: 0.05%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-03-06 17:38:48

End at: 2018-03-06 17:39:18

Local clock offset: -9.186 ms

Remote clock offset: 1.072 ms

Below is generated by plot.py at 2018-03-07 01:29:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 150.19 Mbit/s

95th percentile per-packet one-way delay: 19.614 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 66.83 Mbit/s

95th percentile per-packet one-way delay: 19.596 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 86.47 Mbit/s

95th percentile per-packet one-way delay: 19.587 ms

Loss rate: 0.09%

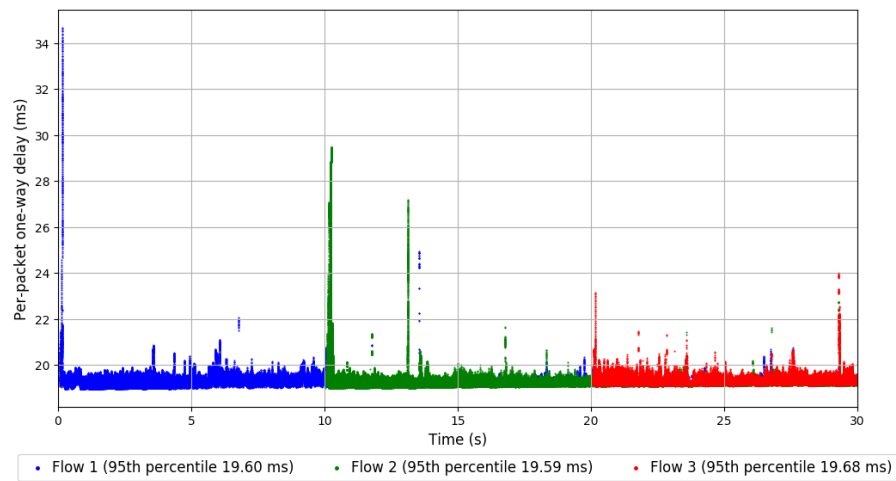
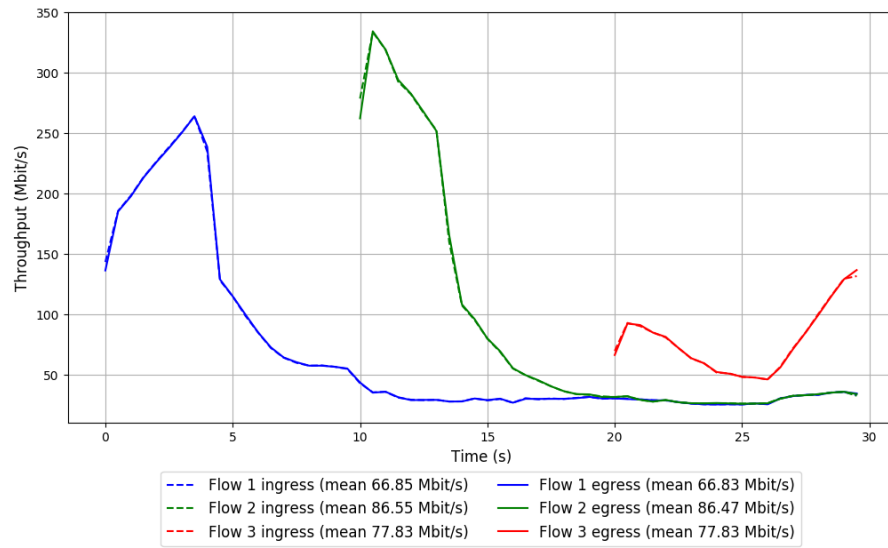
-- Flow 3:

Average throughput: 77.83 Mbit/s

95th percentile per-packet one-way delay: 19.678 ms

Loss rate: 0.00%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-03-06 18:08:31

End at: 2018-03-06 18:09:01

Local clock offset: -6.193 ms

Remote clock offset: 0.932 ms

Below is generated by plot.py at 2018-03-07 01:29:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 210.14 Mbit/s

95th percentile per-packet one-way delay: 19.157 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 150.38 Mbit/s

95th percentile per-packet one-way delay: 18.182 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 44.11 Mbit/s

95th percentile per-packet one-way delay: 19.435 ms

Loss rate: 0.06%

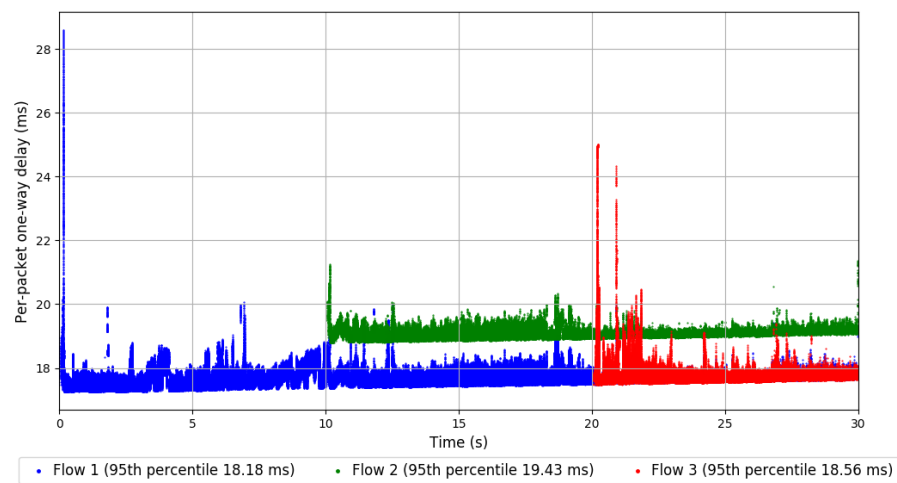
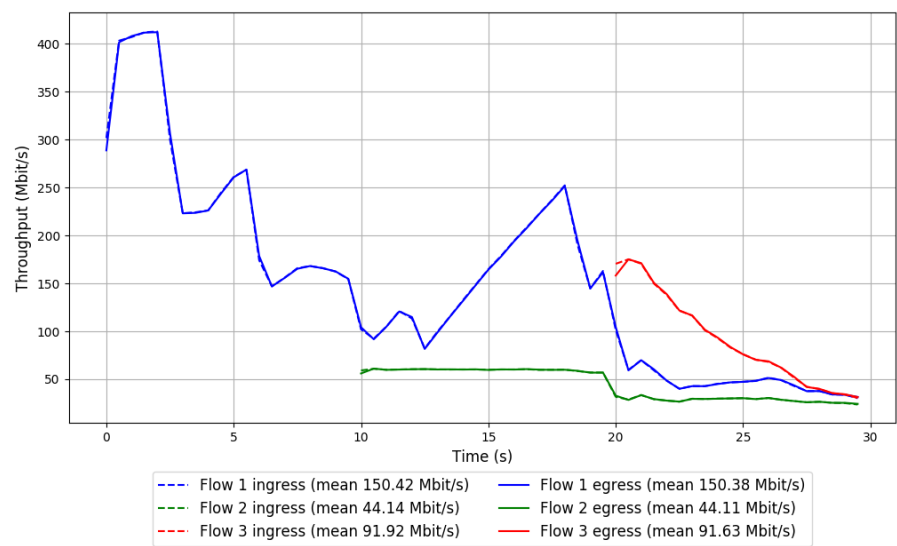
-- Flow 3:

Average throughput: 91.63 Mbit/s

95th percentile per-packet one-way delay: 18.560 ms

Loss rate: 0.32%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-03-06 18:38:24

End at: 2018-03-06 18:38:54

Local clock offset: 2.738 ms

Remote clock offset: 2.643 ms

Below is generated by plot.py at 2018-03-07 01:29:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 133.41 Mbit/s

95th percentile per-packet one-way delay: 19.906 ms

Loss rate: 0.24%

-- Flow 1:

Average throughput: 41.68 Mbit/s

95th percentile per-packet one-way delay: 19.974 ms

Loss rate: 0.29%

-- Flow 2:

Average throughput: 48.01 Mbit/s

95th percentile per-packet one-way delay: 19.857 ms

Loss rate: 0.62%

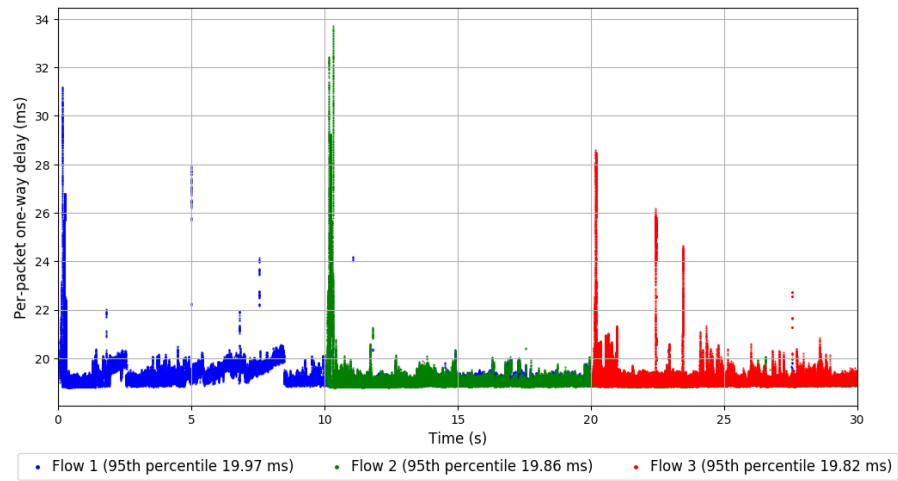
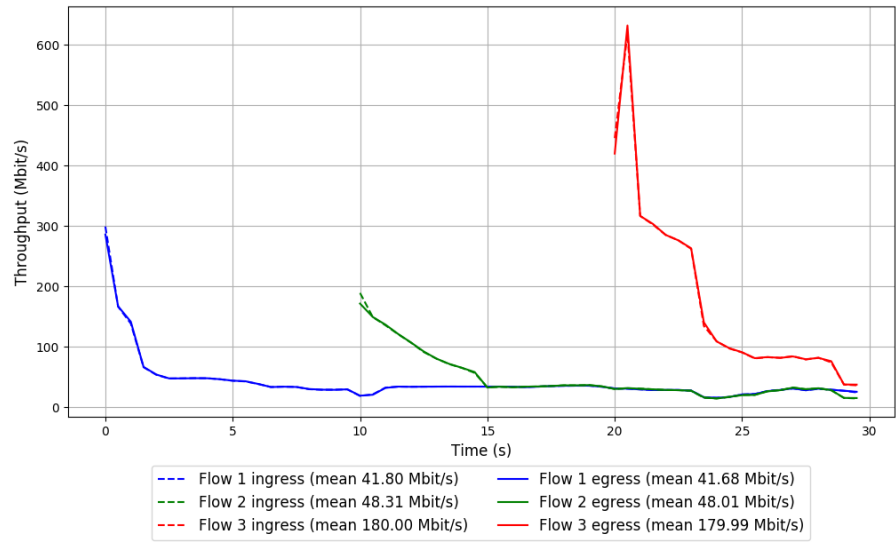
-- Flow 3:

Average throughput: 179.99 Mbit/s

95th percentile per-packet one-way delay: 19.825 ms

Loss rate: 0.01%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-03-06 19:08:05

End at: 2018-03-06 19:08:35

Local clock offset: -5.809 ms

Remote clock offset: 1.59 ms

Below is generated by plot.py at 2018-03-07 01:29:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 159.53 Mbit/s

95th percentile per-packet one-way delay: 19.602 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 63.63 Mbit/s

95th percentile per-packet one-way delay: 18.855 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 77.48 Mbit/s

95th percentile per-packet one-way delay: 19.748 ms

Loss rate: 0.02%

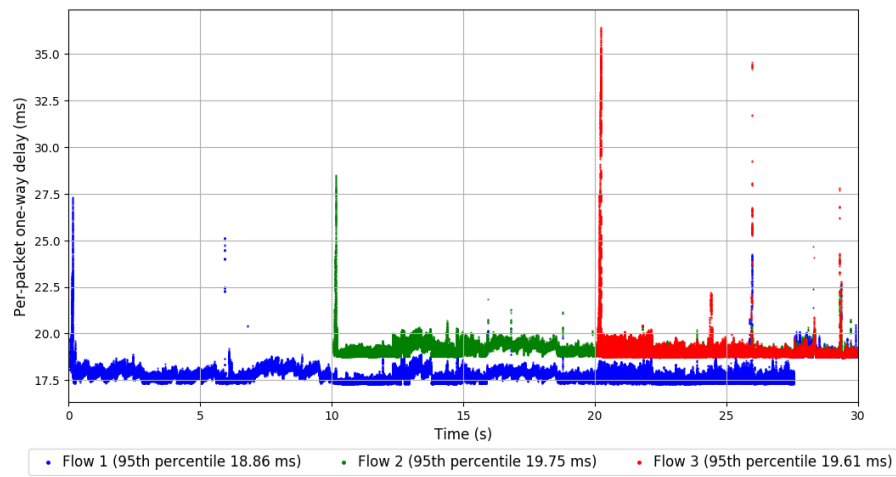
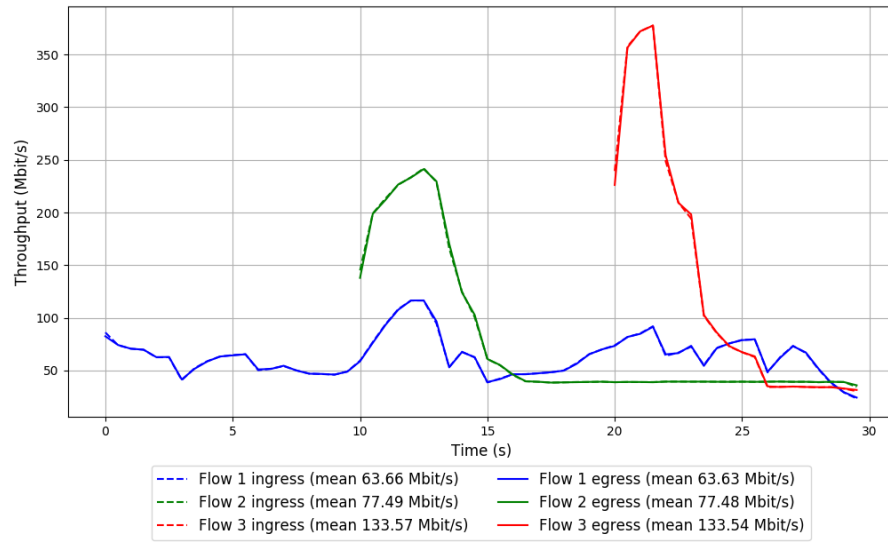
-- Flow 3:

Average throughput: 133.54 Mbit/s

95th percentile per-packet one-way delay: 19.608 ms

Loss rate: 0.03%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-03-06 19:37:30

End at: 2018-03-06 19:38:00

Local clock offset: -2.002 ms

Remote clock offset: 1.064 ms

Below is generated by plot.py at 2018-03-07 01:29:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 102.33 Mbit/s

95th percentile per-packet one-way delay: 19.319 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 44.48 Mbit/s

95th percentile per-packet one-way delay: 19.338 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 64.72 Mbit/s

95th percentile per-packet one-way delay: 19.248 ms

Loss rate: 0.01%

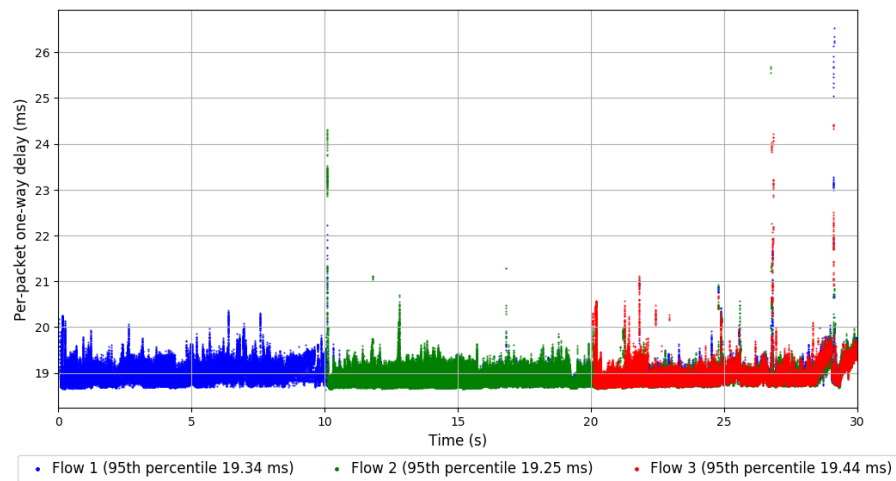
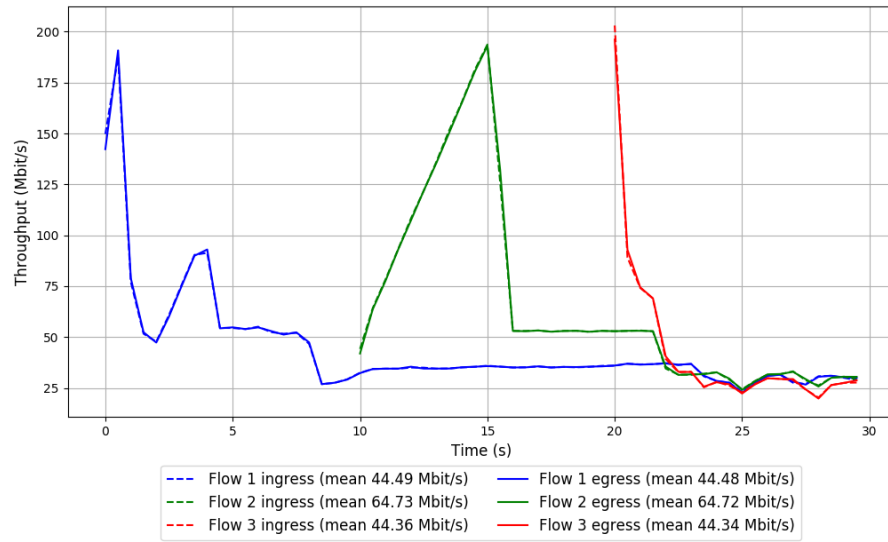
-- Flow 3:

Average throughput: 44.34 Mbit/s

95th percentile per-packet one-way delay: 19.443 ms

Loss rate: 0.03%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-03-06 20:06:54

End at: 2018-03-06 20:07:24

Local clock offset: -0.266 ms

Remote clock offset: 0.905 ms

Below is generated by plot.py at 2018-03-07 01:29:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 158.59 Mbit/s

95th percentile per-packet one-way delay: 19.189 ms

Loss rate: 0.15%

-- Flow 1:

Average throughput: 80.25 Mbit/s

95th percentile per-packet one-way delay: 17.960 ms

Loss rate: 0.20%

-- Flow 2:

Average throughput: 62.39 Mbit/s

95th percentile per-packet one-way delay: 19.262 ms

Loss rate: 0.16%

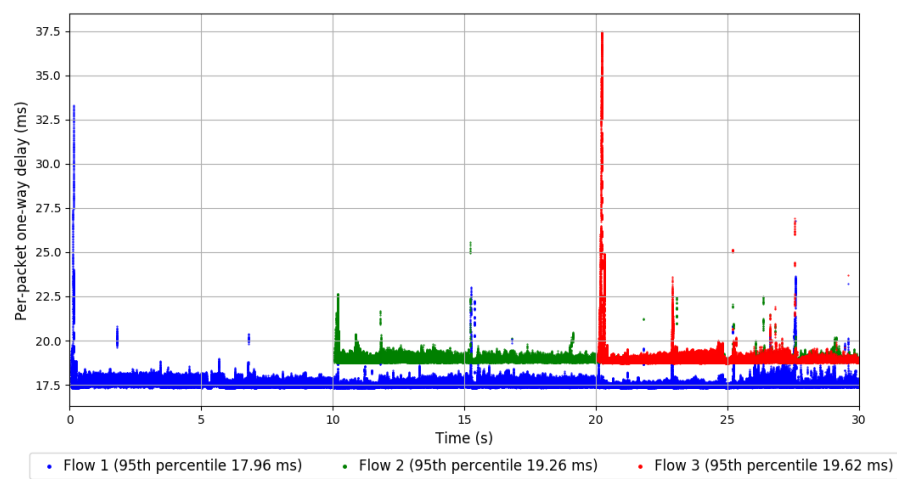
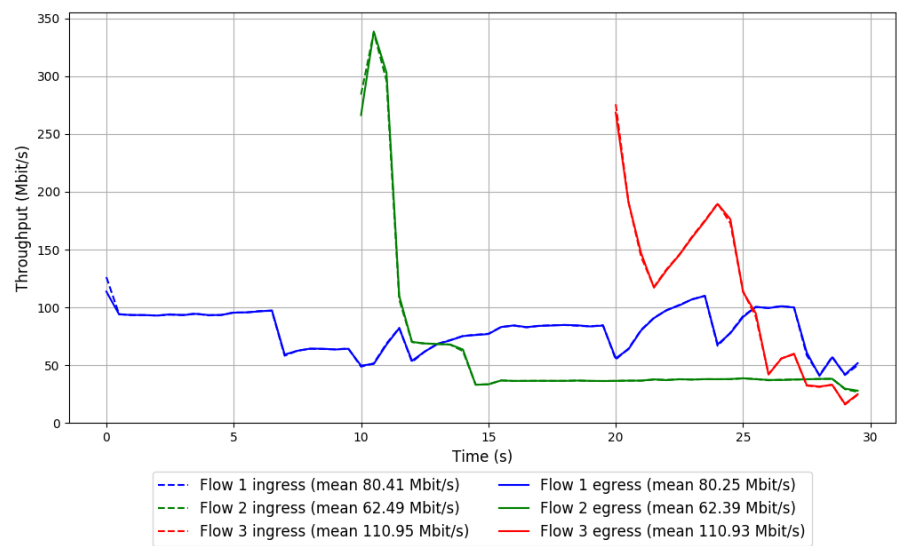
-- Flow 3:

Average throughput: 110.93 Mbit/s

95th percentile per-packet one-way delay: 19.621 ms

Loss rate: 0.02%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-03-06 20:36:40

End at: 2018-03-06 20:37:10

Local clock offset: -3.83 ms

Remote clock offset: 0.867 ms

Below is generated by plot.py at 2018-03-07 01:29:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 204.95 Mbit/s

95th percentile per-packet one-way delay: 18.888 ms

Loss rate: 0.11%

-- Flow 1:

Average throughput: 79.30 Mbit/s

95th percentile per-packet one-way delay: 18.927 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 83.63 Mbit/s

95th percentile per-packet one-way delay: 18.906 ms

Loss rate: 0.37%

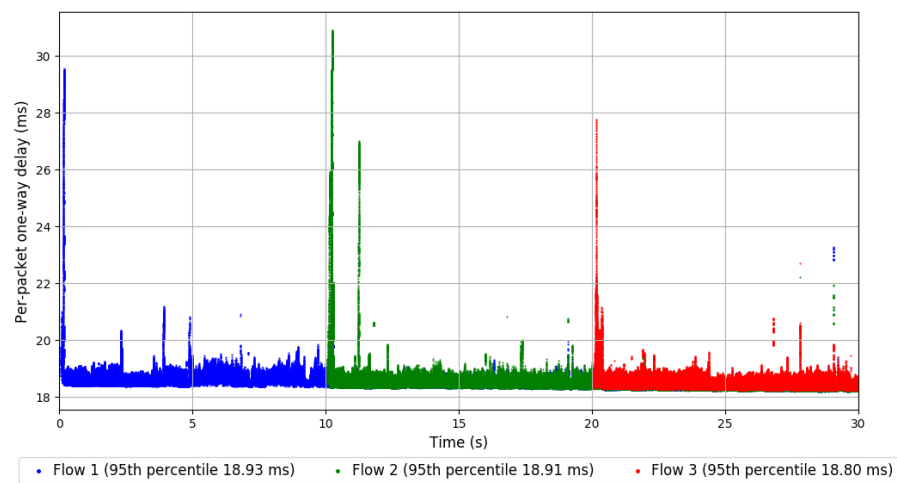
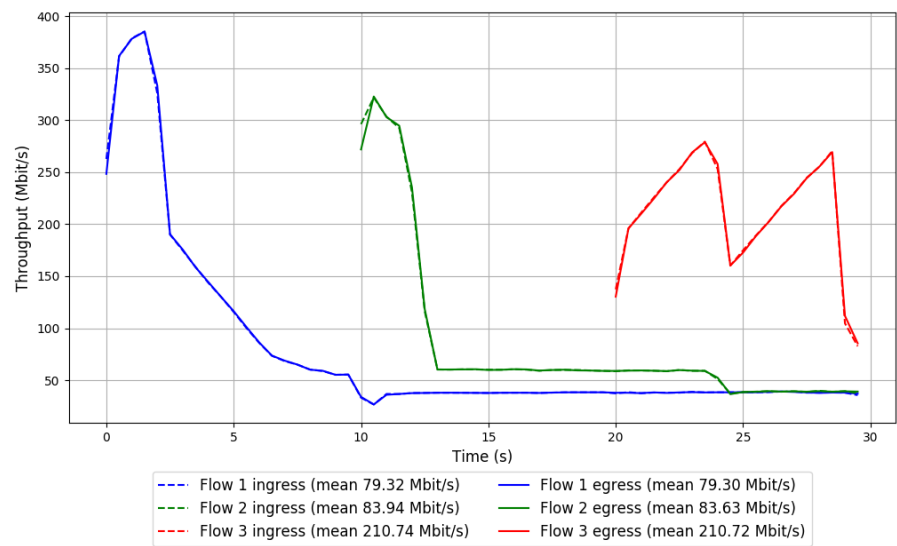
-- Flow 3:

Average throughput: 210.72 Mbit/s

95th percentile per-packet one-way delay: 18.805 ms

Loss rate: 0.00%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-03-06 21:05:56

End at: 2018-03-06 21:06:26

Local clock offset: -6.936 ms

Remote clock offset: 2.533 ms

Below is generated by plot.py at 2018-03-07 01:29:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 298.24 Mbit/s

95th percentile per-packet one-way delay: 19.255 ms

Loss rate: 0.11%

-- Flow 1:

Average throughput: 190.15 Mbit/s

95th percentile per-packet one-way delay: 19.237 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 96.55 Mbit/s

95th percentile per-packet one-way delay: 19.267 ms

Loss rate: 0.10%

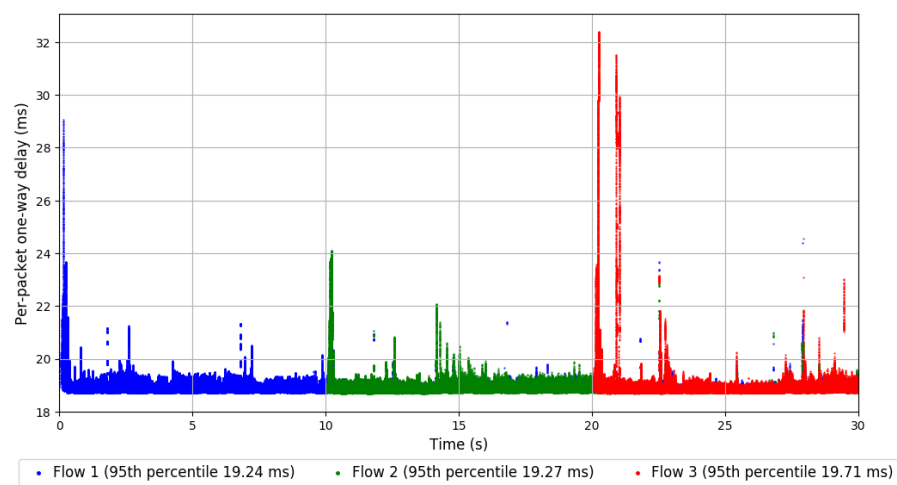
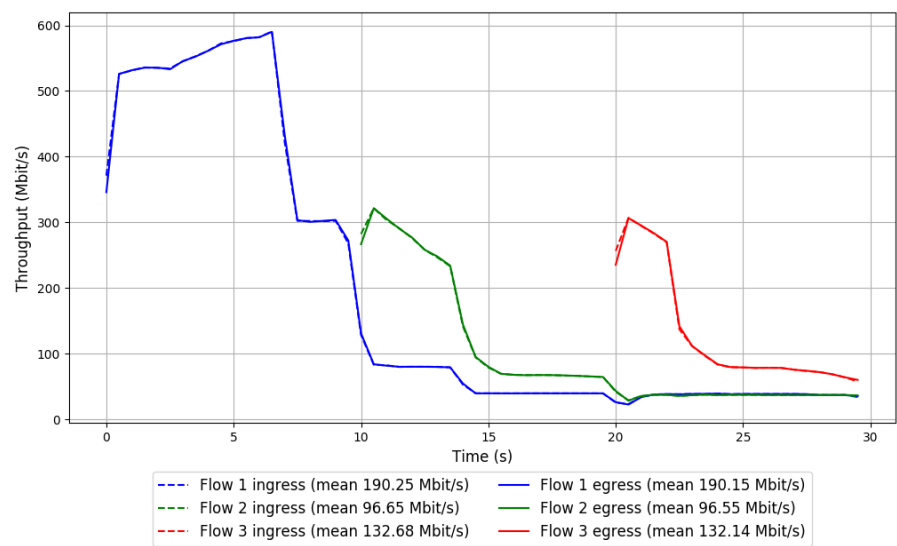
-- Flow 3:

Average throughput: 132.14 Mbit/s

95th percentile per-packet one-way delay: 19.712 ms

Loss rate: 0.40%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-03-06 21:35:49

End at: 2018-03-06 21:36:19

Local clock offset: -7.599 ms

Remote clock offset: 2.994 ms

Below is generated by plot.py at 2018-03-07 01:29:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 399.75 Mbit/s

95th percentile per-packet one-way delay: 19.136 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 240.51 Mbit/s

95th percentile per-packet one-way delay: 17.856 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 131.92 Mbit/s

95th percentile per-packet one-way delay: 17.753 ms

Loss rate: 0.03%

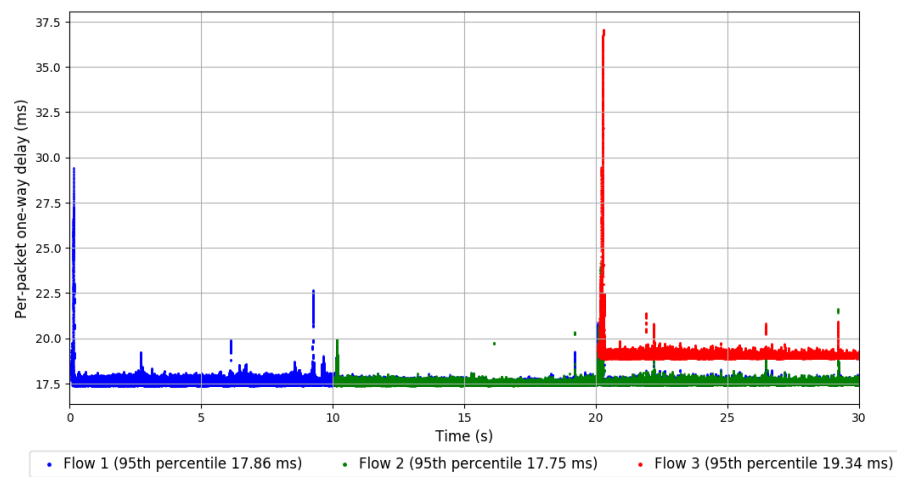
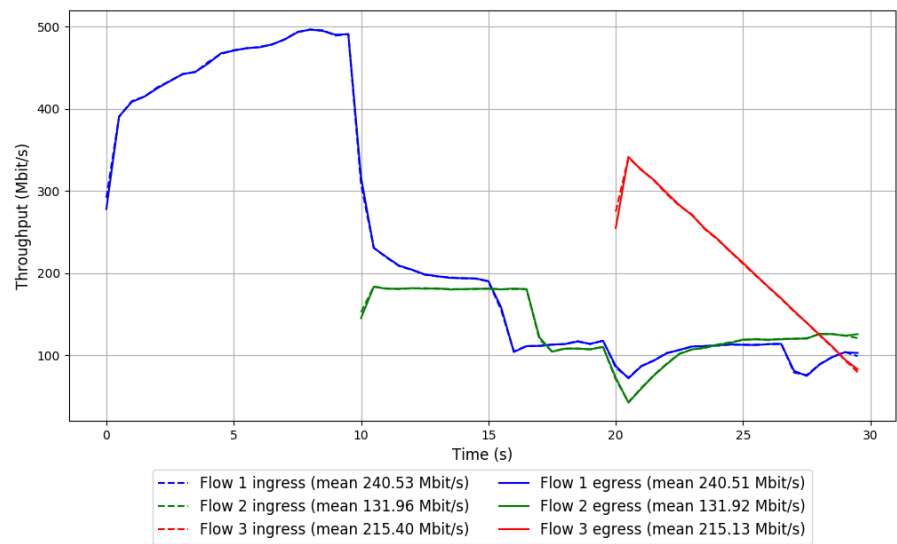
-- Flow 3:

Average throughput: 215.13 Mbit/s

95th percentile per-packet one-way delay: 19.336 ms

Loss rate: 0.15%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-03-06 17:10:11

End at: 2018-03-06 17:10:41

Local clock offset: -8.847 ms

Remote clock offset: 2.624 ms

Below is generated by plot.py at 2018-03-07 01:29:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 446.23 Mbit/s

95th percentile per-packet one-way delay: 27.964 ms

Loss rate: 8.59%

-- Flow 1:

Average throughput: 236.54 Mbit/s

95th percentile per-packet one-way delay: 35.945 ms

Loss rate: 8.71%

-- Flow 2:

Average throughput: 223.30 Mbit/s

95th percentile per-packet one-way delay: 24.211 ms

Loss rate: 8.04%

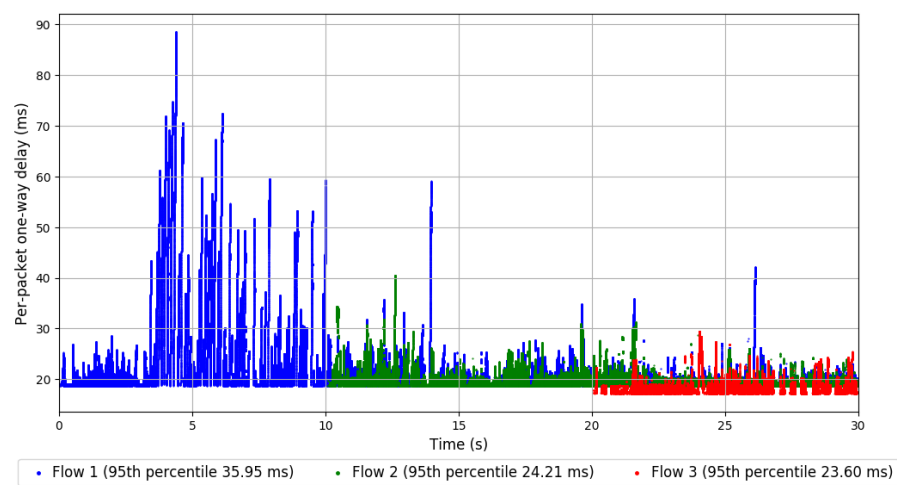
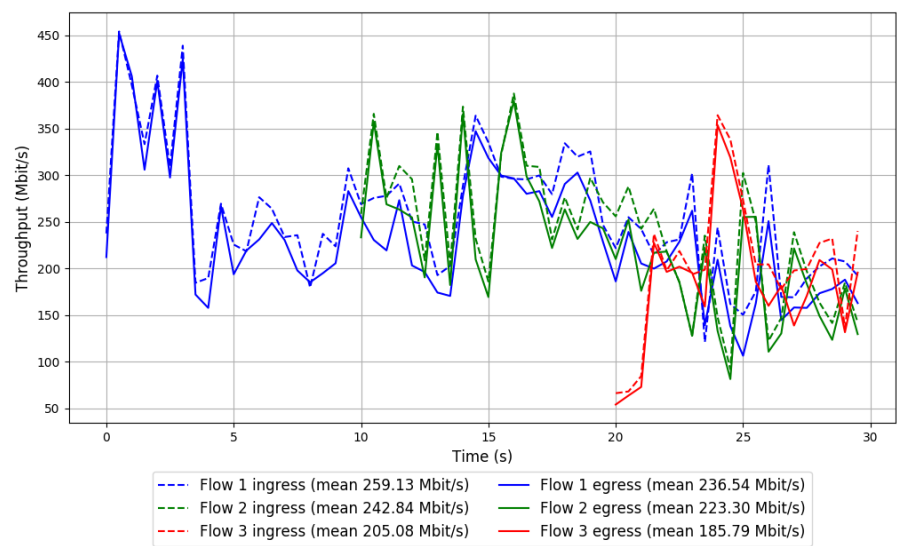
-- Flow 3:

Average throughput: 185.79 Mbit/s

95th percentile per-packet one-way delay: 23.600 ms

Loss rate: 9.40%

Run 1: Report of Verus — Data Link

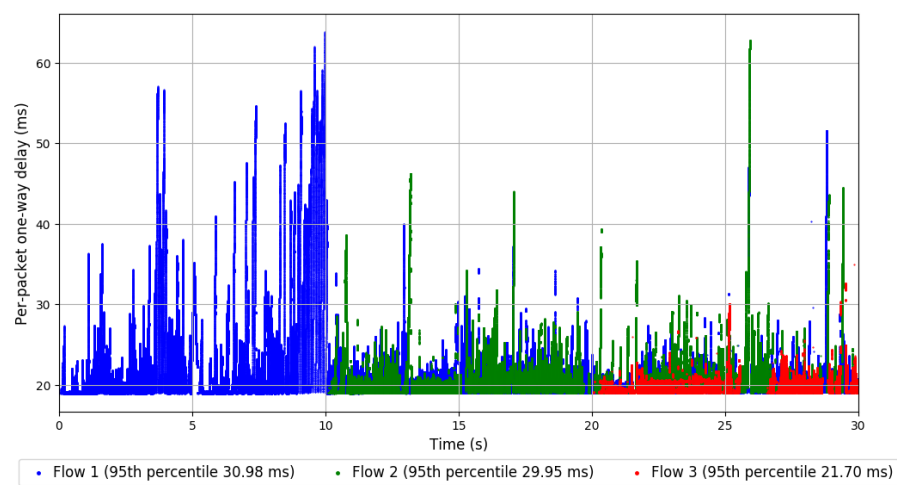
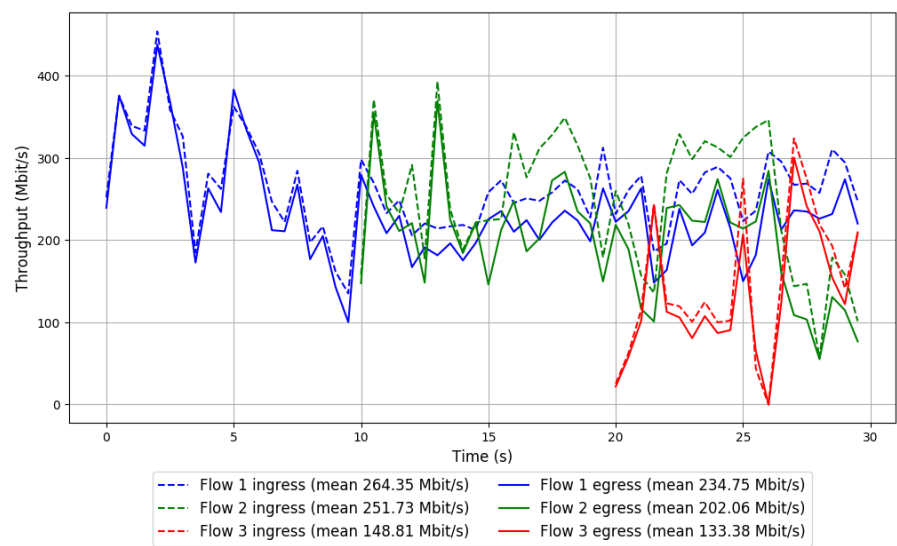


Run 2: Statistics of Verus

Start at: 2018-03-06 17:40:13
End at: 2018-03-06 17:40:43
Local clock offset: -8.768 ms
Remote clock offset: 1.008 ms

Below is generated by plot.py at 2018-03-07 01:29:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 412.58 Mbit/s
95th percentile per-packet one-way delay: 29.485 ms
Loss rate: 14.07%
-- Flow 1:
Average throughput: 234.75 Mbit/s
95th percentile per-packet one-way delay: 30.975 ms
Loss rate: 11.20%
-- Flow 2:
Average throughput: 202.06 Mbit/s
95th percentile per-packet one-way delay: 29.946 ms
Loss rate: 19.73%
-- Flow 3:
Average throughput: 133.38 Mbit/s
95th percentile per-packet one-way delay: 21.704 ms
Loss rate: 10.37%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-03-06 18:10:05

End at: 2018-03-06 18:10:36

Local clock offset: -5.502 ms

Remote clock offset: 0.929 ms

Below is generated by plot.py at 2018-03-07 01:29:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 431.76 Mbit/s

95th percentile per-packet one-way delay: 31.696 ms

Loss rate: 12.31%

-- Flow 1:

Average throughput: 215.14 Mbit/s

95th percentile per-packet one-way delay: 37.006 ms

Loss rate: 10.92%

-- Flow 2:

Average throughput: 212.24 Mbit/s

95th percentile per-packet one-way delay: 26.497 ms

Loss rate: 13.48%

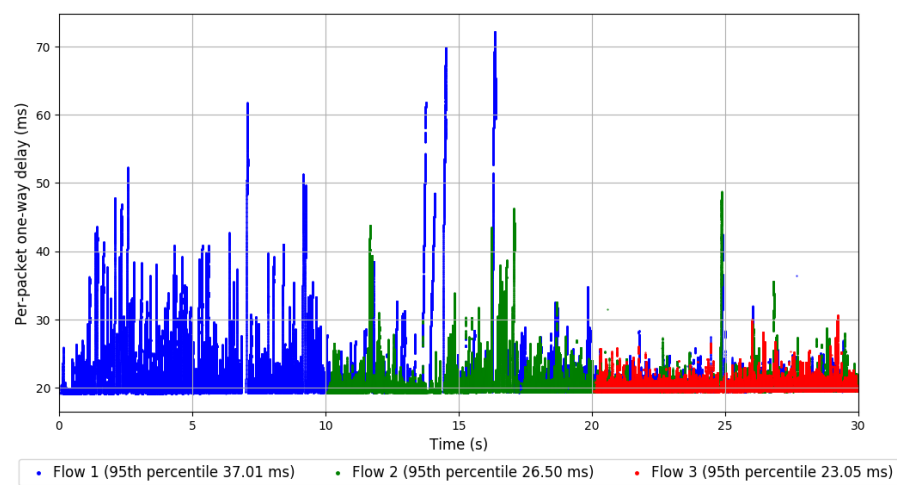
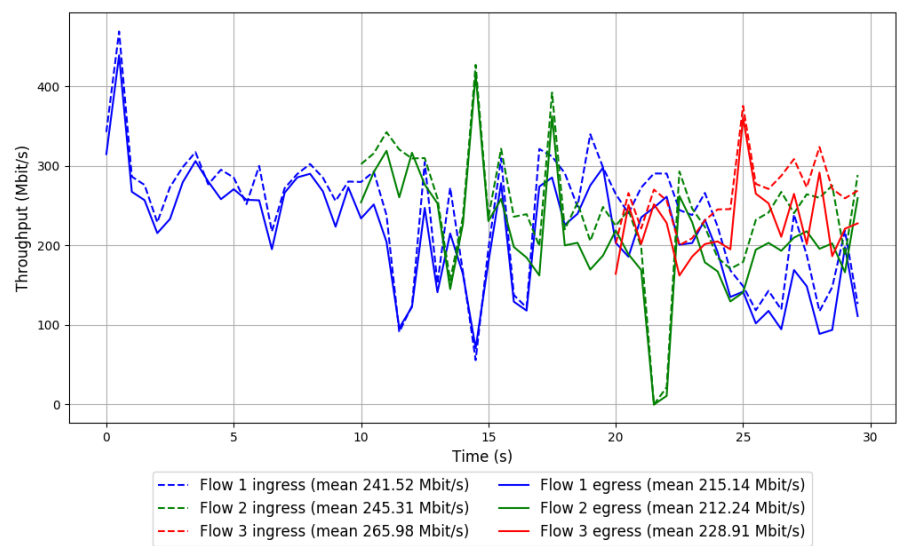
-- Flow 3:

Average throughput: 228.91 Mbit/s

95th percentile per-packet one-way delay: 23.055 ms

Loss rate: 13.94%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-03-06 18:39:52

End at: 2018-03-06 18:40:22

Local clock offset: 3.043 ms

Remote clock offset: 2.687 ms

Below is generated by plot.py at 2018-03-07 01:30:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 392.61 Mbit/s

95th percentile per-packet one-way delay: 38.729 ms

Loss rate: 11.24%

-- Flow 1:

Average throughput: 197.09 Mbit/s

95th percentile per-packet one-way delay: 44.882 ms

Loss rate: 12.43%

-- Flow 2:

Average throughput: 215.36 Mbit/s

95th percentile per-packet one-way delay: 32.074 ms

Loss rate: 10.02%

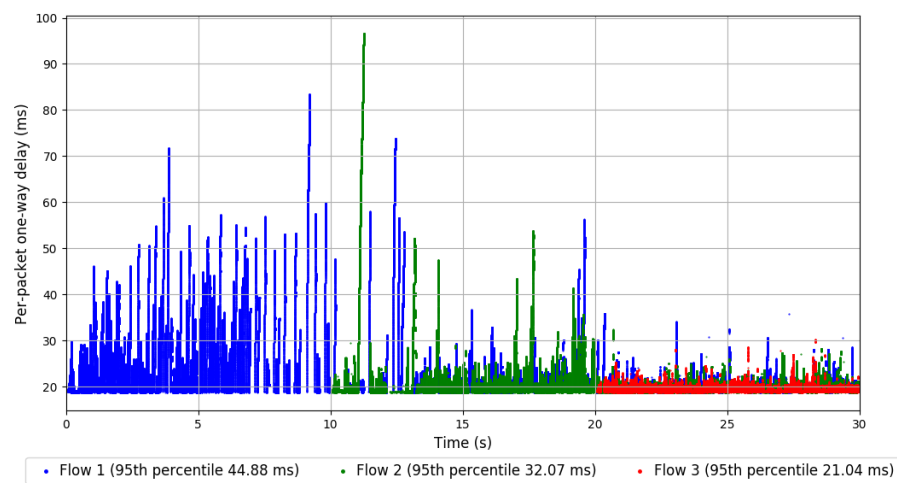
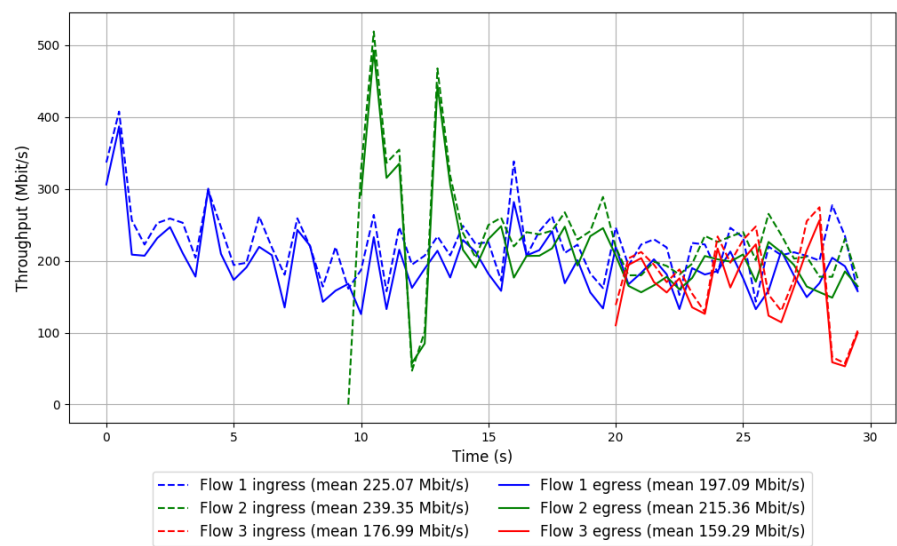
-- Flow 3:

Average throughput: 159.29 Mbit/s

95th percentile per-packet one-way delay: 21.040 ms

Loss rate: 10.00%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-03-06 19:09:37

End at: 2018-03-06 19:10:07

Local clock offset: -5.791 ms

Remote clock offset: 1.541 ms

Below is generated by plot.py at 2018-03-07 01:30:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 389.61 Mbit/s

95th percentile per-packet one-way delay: 77.941 ms

Loss rate: 12.51%

-- Flow 1:

Average throughput: 209.16 Mbit/s

95th percentile per-packet one-way delay: 89.230 ms

Loss rate: 13.64%

-- Flow 2:

Average throughput: 187.01 Mbit/s

95th percentile per-packet one-way delay: 45.010 ms

Loss rate: 13.09%

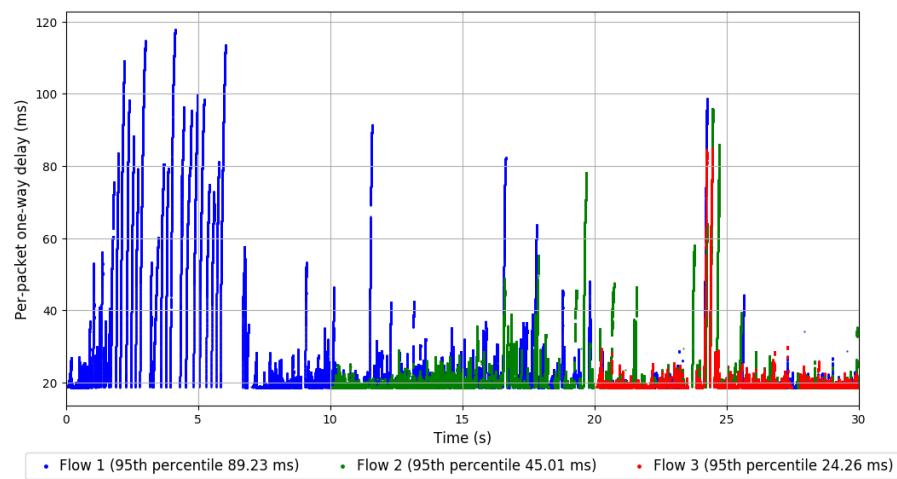
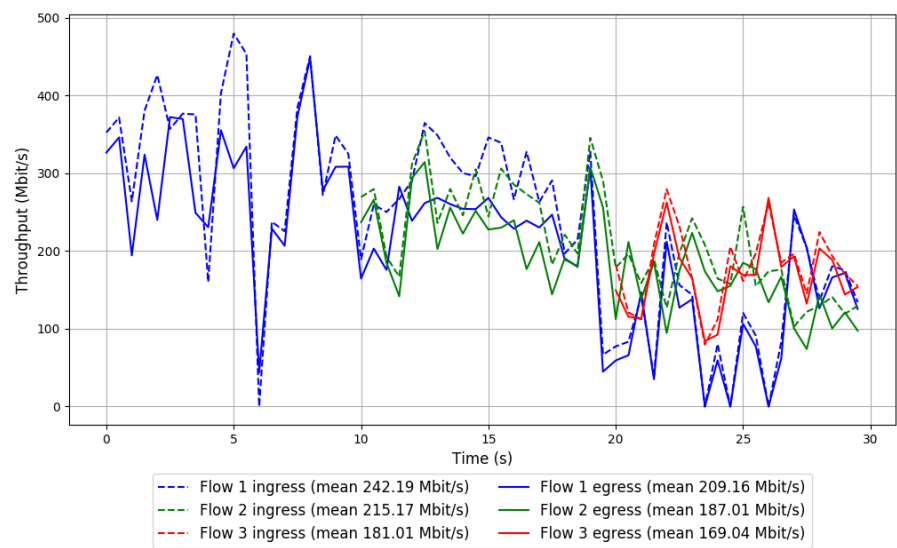
-- Flow 3:

Average throughput: 169.04 Mbit/s

95th percentile per-packet one-way delay: 24.263 ms

Loss rate: 6.61%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-03-06 19:38:53

End at: 2018-03-06 19:39:23

Local clock offset: -1.9 ms

Remote clock offset: 1.056 ms

Below is generated by plot.py at 2018-03-07 01:33:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 448.45 Mbit/s

95th percentile per-packet one-way delay: 26.004 ms

Loss rate: 14.15%

-- Flow 1:

Average throughput: 220.87 Mbit/s

95th percentile per-packet one-way delay: 27.255 ms

Loss rate: 12.08%

-- Flow 2:

Average throughput: 264.80 Mbit/s

95th percentile per-packet one-way delay: 25.570 ms

Loss rate: 15.81%

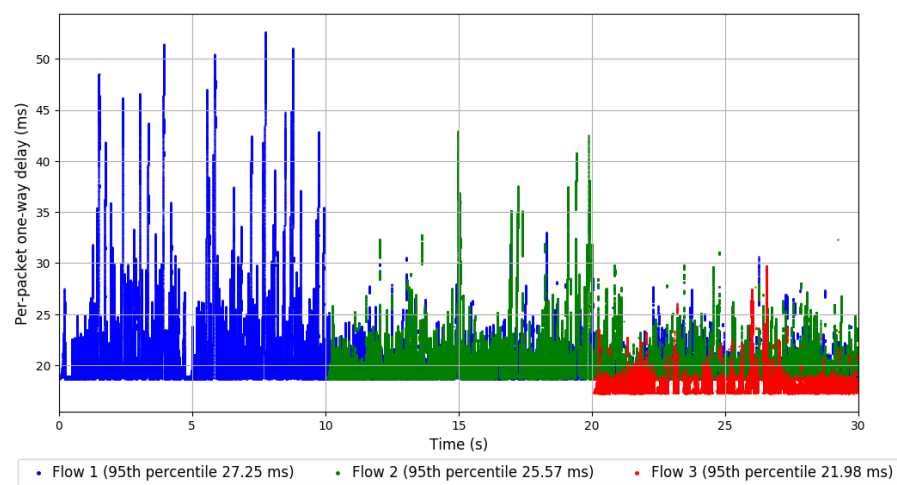
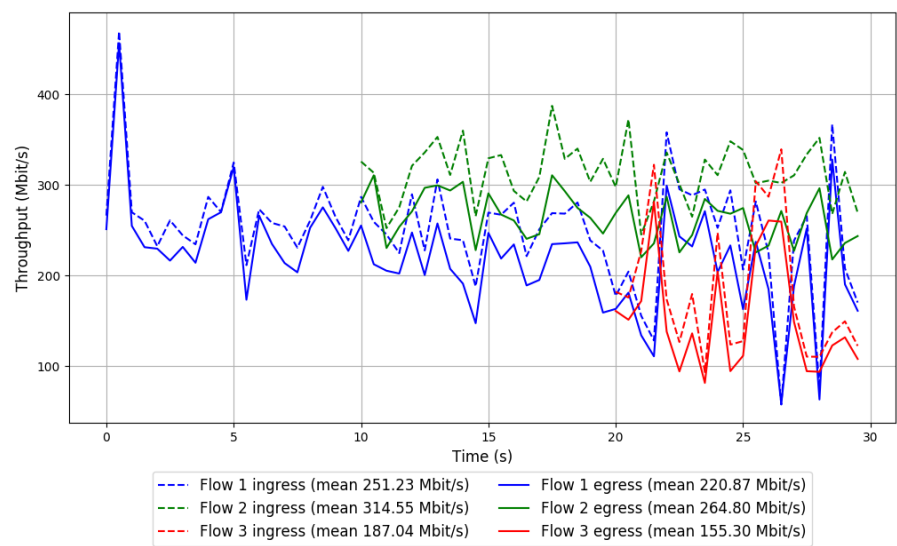
-- Flow 3:

Average throughput: 155.30 Mbit/s

95th percentile per-packet one-way delay: 21.977 ms

Loss rate: 16.96%

Run 6: Report of Verus — Data Link

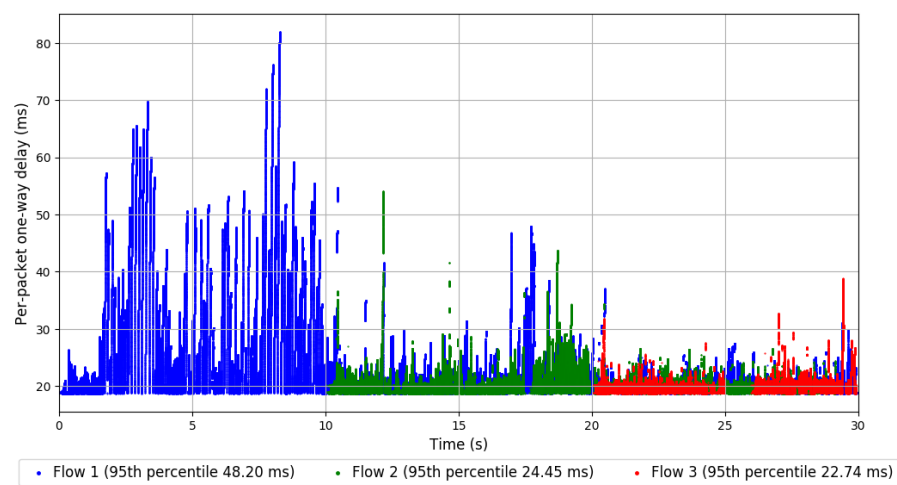
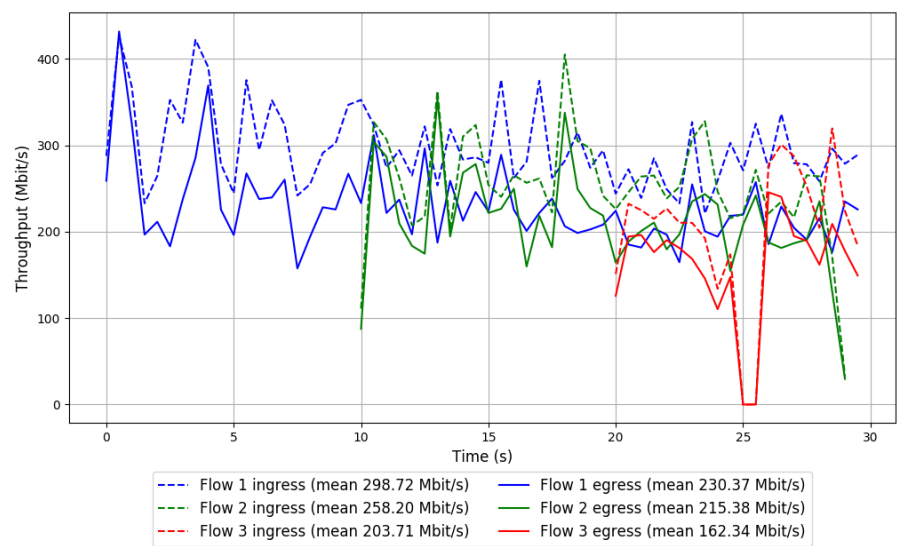


Run 7: Statistics of Verus

Start at: 2018-03-06 20:08:19
End at: 2018-03-06 20:08:49
Local clock offset: -0.113 ms
Remote clock offset: 0.984 ms

Below is generated by plot.py at 2018-03-07 01:35:16
Datalink statistics
-- Total of 3 flows:
Average throughput: 421.52 Mbit/s
95th percentile per-packet one-way delay: 40.333 ms
Loss rate: 20.60%
-- Flow 1:
Average throughput: 230.37 Mbit/s
95th percentile per-packet one-way delay: 48.201 ms
Loss rate: 22.88%
-- Flow 2:
Average throughput: 215.38 Mbit/s
95th percentile per-packet one-way delay: 24.453 ms
Loss rate: 16.59%
-- Flow 3:
Average throughput: 162.34 Mbit/s
95th percentile per-packet one-way delay: 22.740 ms
Loss rate: 20.31%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-03-06 20:38:06

End at: 2018-03-06 20:38:36

Local clock offset: -4.336 ms

Remote clock offset: 1.054 ms

Below is generated by plot.py at 2018-03-07 01:35:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 412.20 Mbit/s

95th percentile per-packet one-way delay: 39.894 ms

Loss rate: 20.60%

-- Flow 1:

Average throughput: 207.05 Mbit/s

95th percentile per-packet one-way delay: 48.353 ms

Loss rate: 20.38%

-- Flow 2:

Average throughput: 214.75 Mbit/s

95th percentile per-packet one-way delay: 26.978 ms

Loss rate: 21.67%

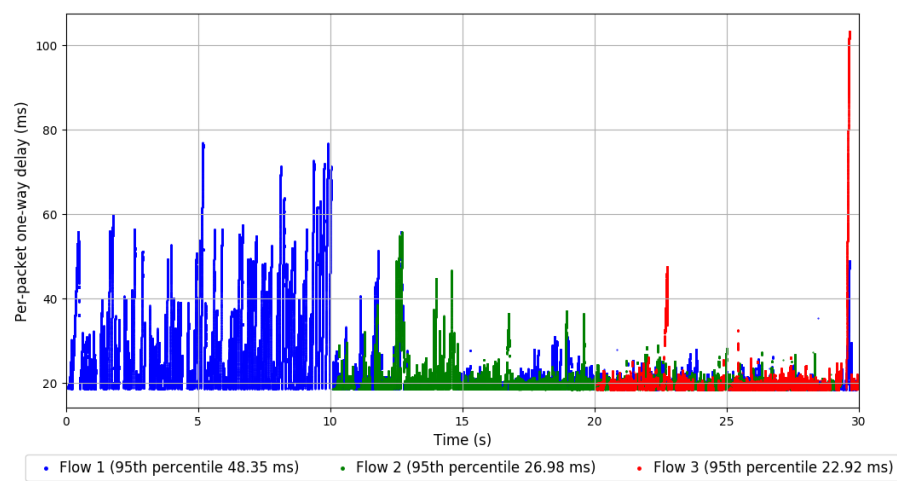
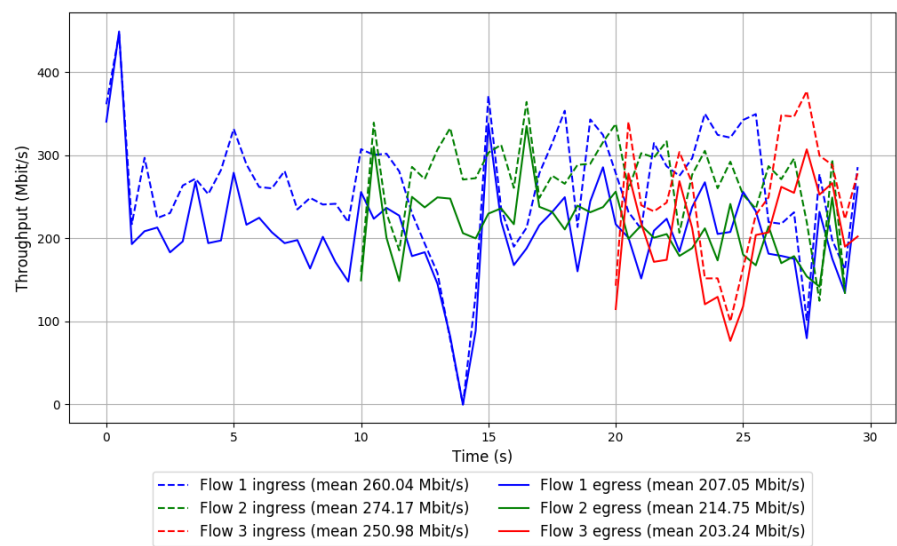
-- Flow 3:

Average throughput: 203.24 Mbit/s

95th percentile per-packet one-way delay: 22.921 ms

Loss rate: 19.02%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-03-06 21:07:26

End at: 2018-03-06 21:07:56

Local clock offset: -6.871 ms

Remote clock offset: 2.618 ms

Below is generated by plot.py at 2018-03-07 01:36:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 446.53 Mbit/s

95th percentile per-packet one-way delay: 29.786 ms

Loss rate: 10.47%

-- Flow 1:

Average throughput: 236.12 Mbit/s

95th percentile per-packet one-way delay: 31.576 ms

Loss rate: 8.53%

-- Flow 2:

Average throughput: 214.73 Mbit/s

95th percentile per-packet one-way delay: 23.215 ms

Loss rate: 10.25%

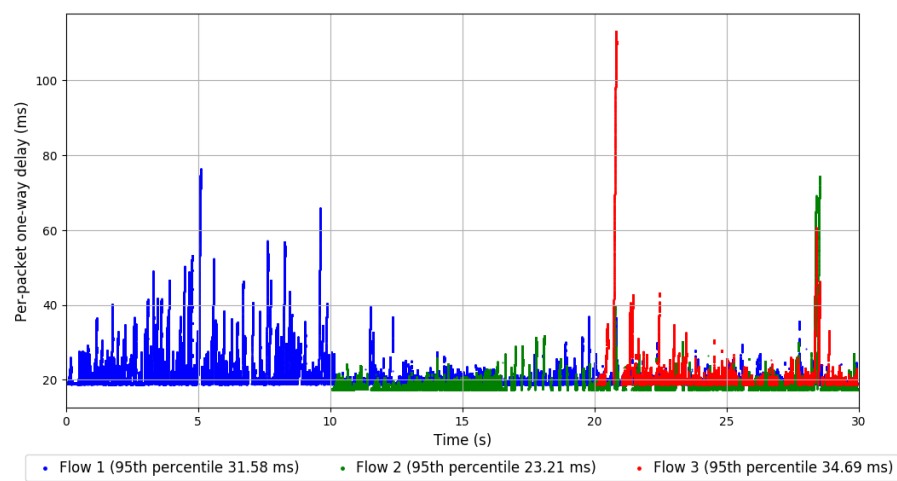
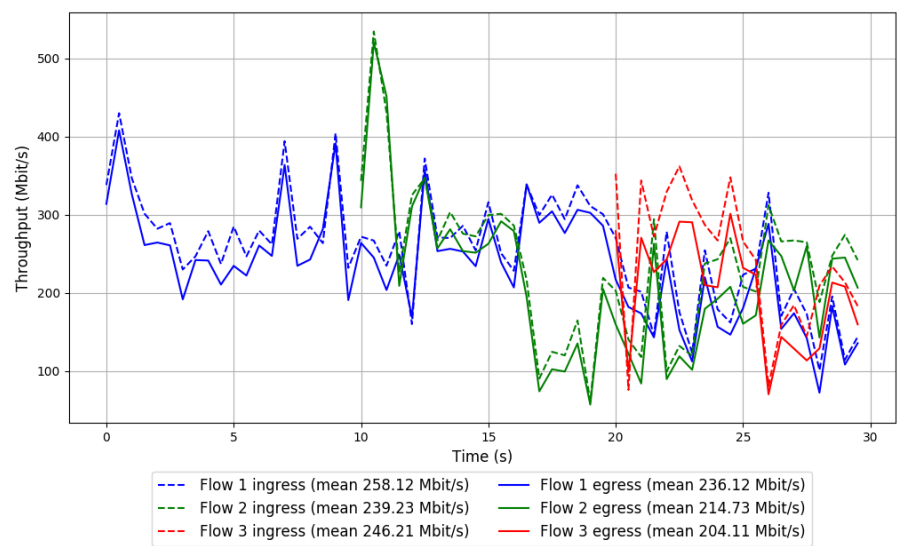
-- Flow 3:

Average throughput: 204.11 Mbit/s

95th percentile per-packet one-way delay: 34.693 ms

Loss rate: 17.10%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-03-06 21:37:28

End at: 2018-03-06 21:37:58

Local clock offset: -7.306 ms

Remote clock offset: 3.038 ms

Below is generated by plot.py at 2018-03-07 01:36:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 349.75 Mbit/s

95th percentile per-packet one-way delay: 35.703 ms

Loss rate: 15.63%

-- Flow 1:

Average throughput: 185.52 Mbit/s

95th percentile per-packet one-way delay: 39.346 ms

Loss rate: 15.60%

-- Flow 2:

Average throughput: 152.12 Mbit/s

95th percentile per-packet one-way delay: 28.501 ms

Loss rate: 12.96%

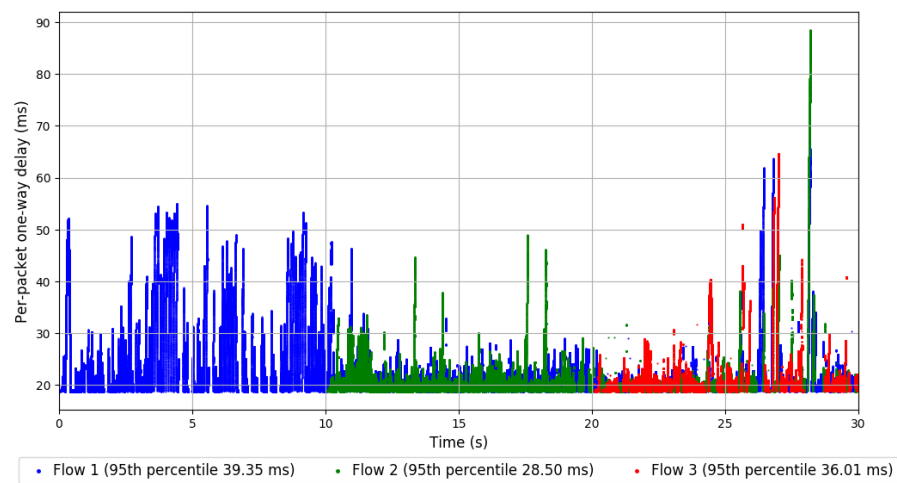
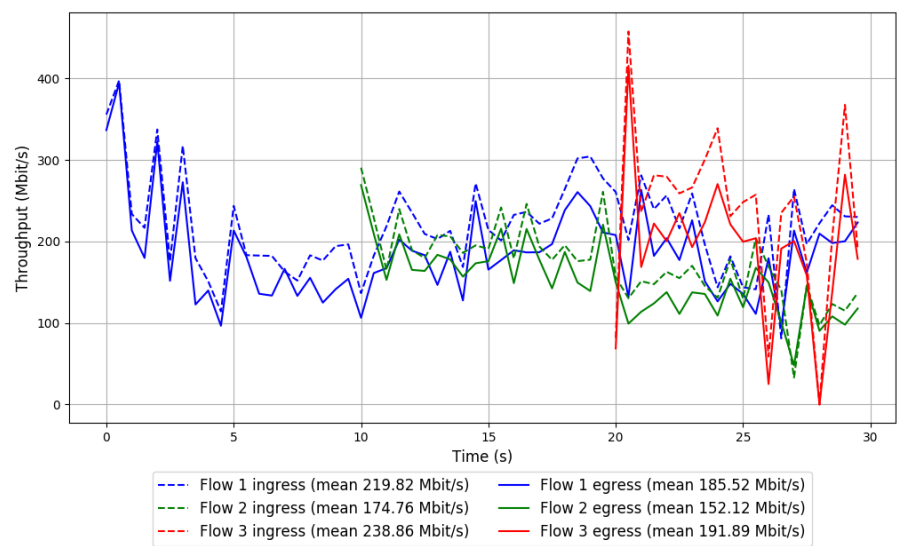
-- Flow 3:

Average throughput: 191.89 Mbit/s

95th percentile per-packet one-way delay: 36.008 ms

Loss rate: 19.65%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2018-03-06 17:06:56

End at: 2018-03-06 17:07:26

Local clock offset: -8.448 ms

Remote clock offset: 2.52 ms

Below is generated by plot.py at 2018-03-07 01:36:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 236.07 Mbit/s

95th percentile per-packet one-way delay: 19.431 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 113.37 Mbit/s

95th percentile per-packet one-way delay: 19.401 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 118.53 Mbit/s

95th percentile per-packet one-way delay: 19.633 ms

Loss rate: 0.01%

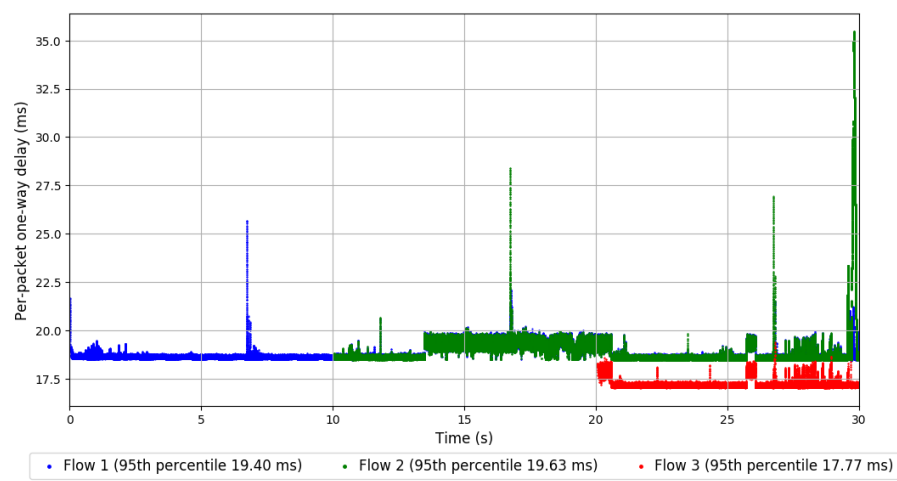
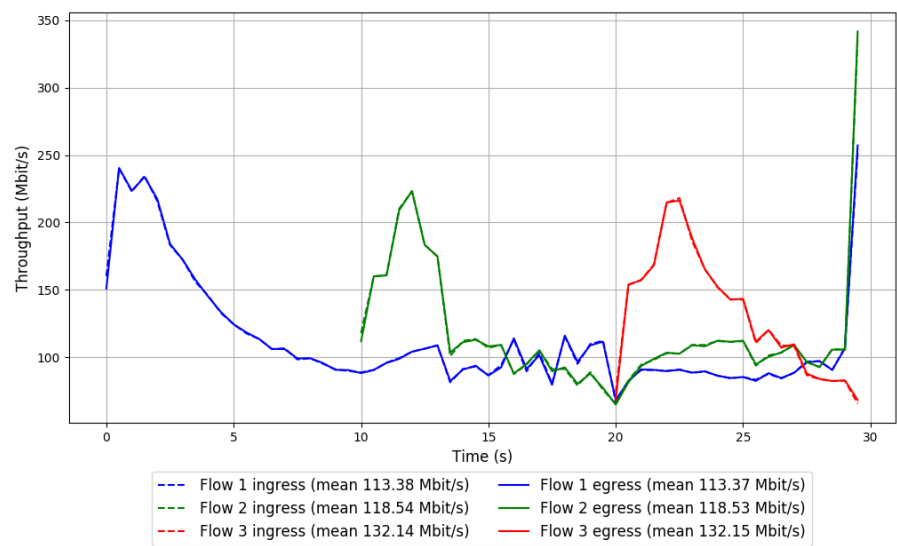
-- Flow 3:

Average throughput: 132.15 Mbit/s

95th percentile per-packet one-way delay: 17.767 ms

Loss rate: 0.00%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-03-06 17:37:14

End at: 2018-03-06 17:37:44

Local clock offset: -9.709 ms

Remote clock offset: 1.004 ms

Below is generated by plot.py at 2018-03-07 01:36:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 224.56 Mbit/s

95th percentile per-packet one-way delay: 19.143 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 111.23 Mbit/s

95th percentile per-packet one-way delay: 19.120 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 102.33 Mbit/s

95th percentile per-packet one-way delay: 19.150 ms

Loss rate: 0.00%

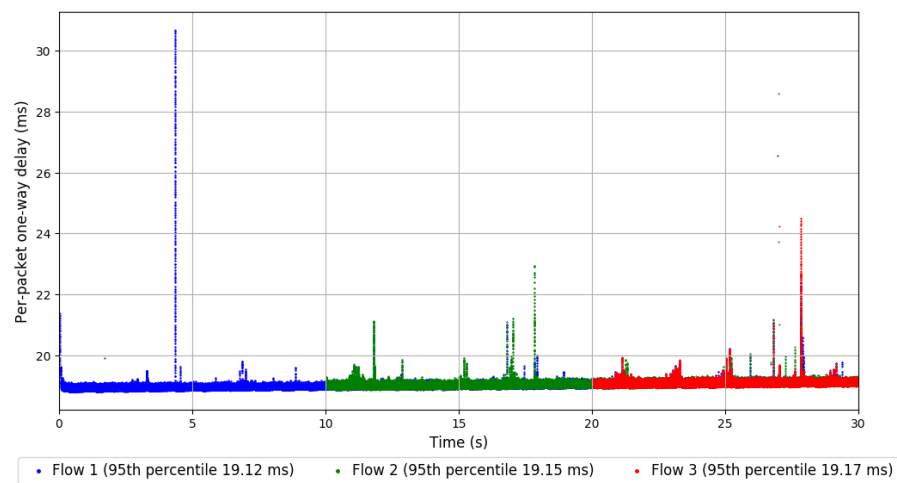
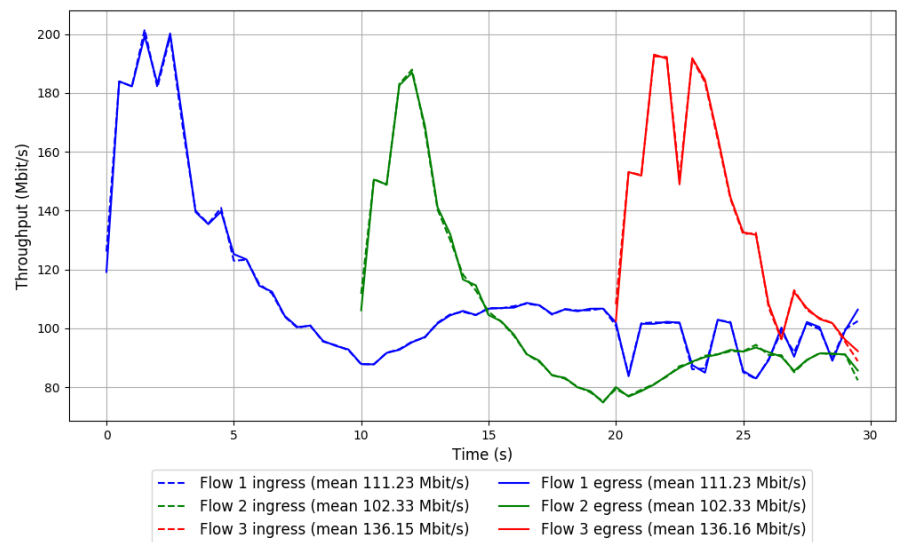
-- Flow 3:

Average throughput: 136.16 Mbit/s

95th percentile per-packet one-way delay: 19.166 ms

Loss rate: 0.00%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

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

End at: 2018-03-06 18:07:25

Local clock offset: -6.294 ms

Remote clock offset: 0.937 ms

Below is generated by plot.py at 2018-03-07 01:37:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 234.32 Mbit/s

95th percentile per-packet one-way delay: 18.953 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 115.90 Mbit/s

95th percentile per-packet one-way delay: 18.952 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 119.37 Mbit/s

95th percentile per-packet one-way delay: 18.974 ms

Loss rate: 0.00%

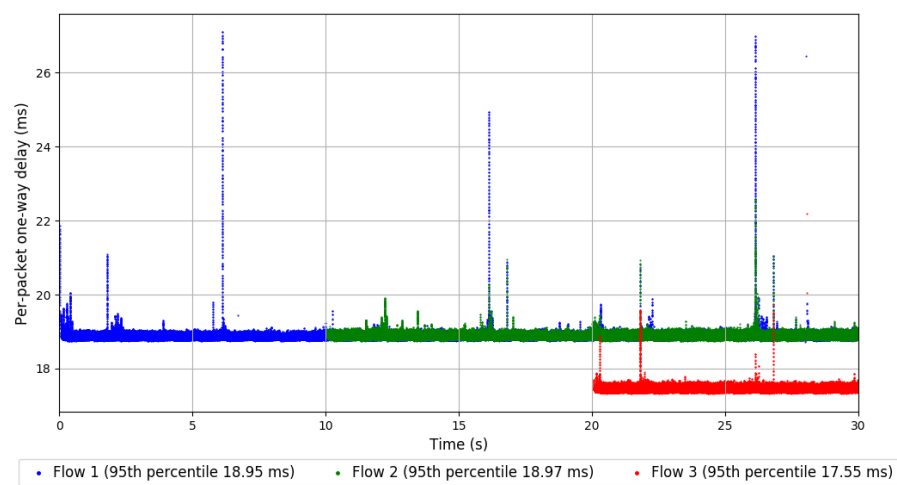
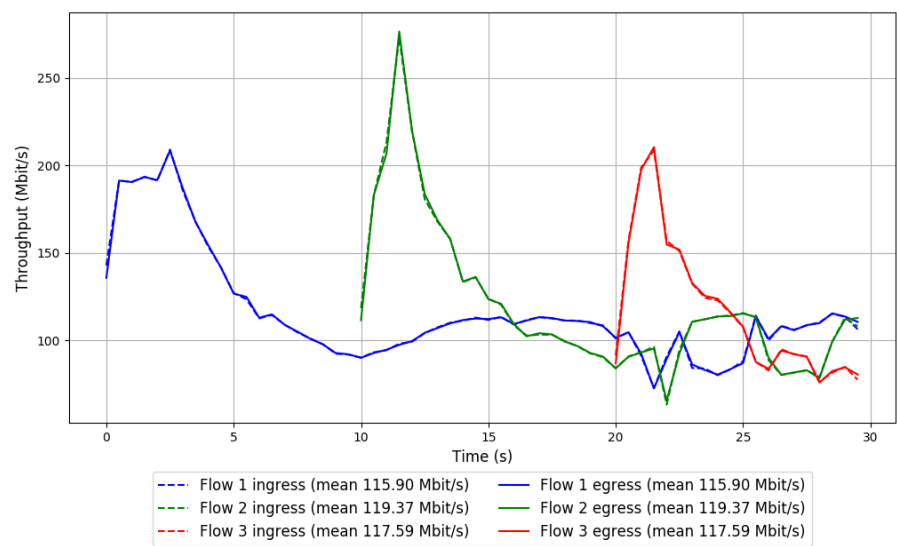
-- Flow 3:

Average throughput: 117.59 Mbit/s

95th percentile per-packet one-way delay: 17.548 ms

Loss rate: 0.00%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-03-06 18:36:49

End at: 2018-03-06 18:37:19

Local clock offset: 2.591 ms

Remote clock offset: 2.636 ms

Below is generated by plot.py at 2018-03-07 01:39:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 231.45 Mbit/s

95th percentile per-packet one-way delay: 18.997 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 117.10 Mbit/s

95th percentile per-packet one-way delay: 18.984 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 110.23 Mbit/s

95th percentile per-packet one-way delay: 18.981 ms

Loss rate: 0.00%

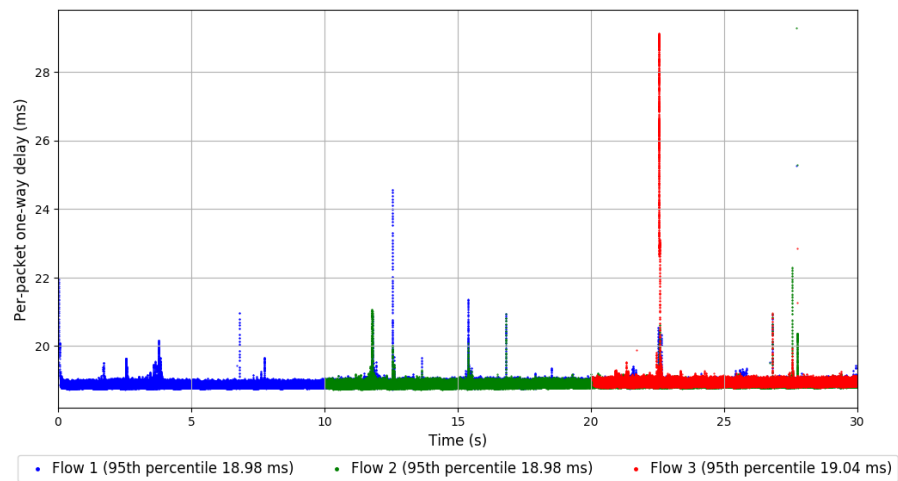
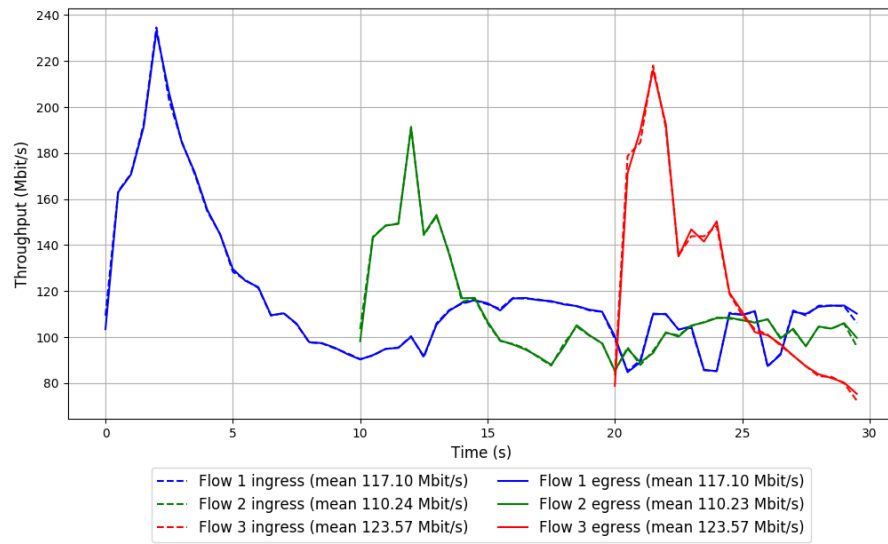
-- Flow 3:

Average throughput: 123.57 Mbit/s

95th percentile per-packet one-way delay: 19.039 ms

Loss rate: 0.00%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-03-06 19:06:29

End at: 2018-03-06 19:06:59

Local clock offset: -5.567 ms

Remote clock offset: 1.705 ms

Below is generated by plot.py at 2018-03-07 01:40:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 233.64 Mbit/s

95th percentile per-packet one-way delay: 18.831 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 111.44 Mbit/s

95th percentile per-packet one-way delay: 18.858 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 124.02 Mbit/s

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

Loss rate: 0.00%

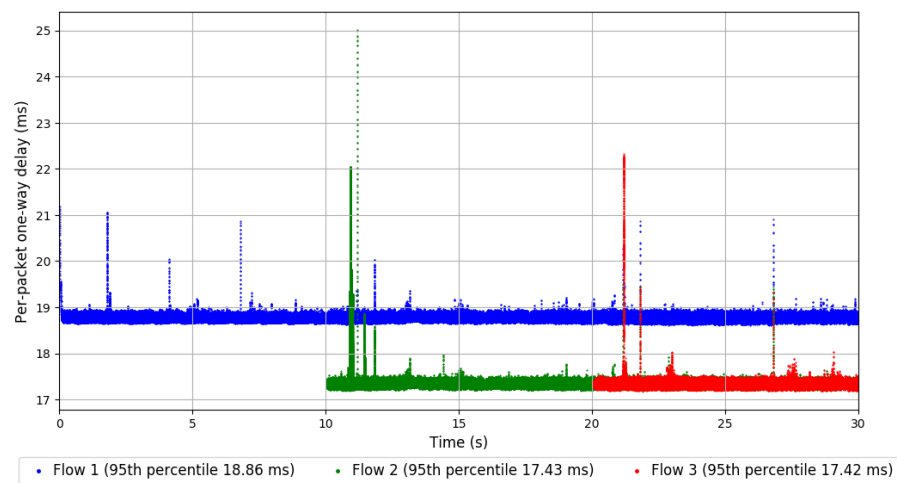
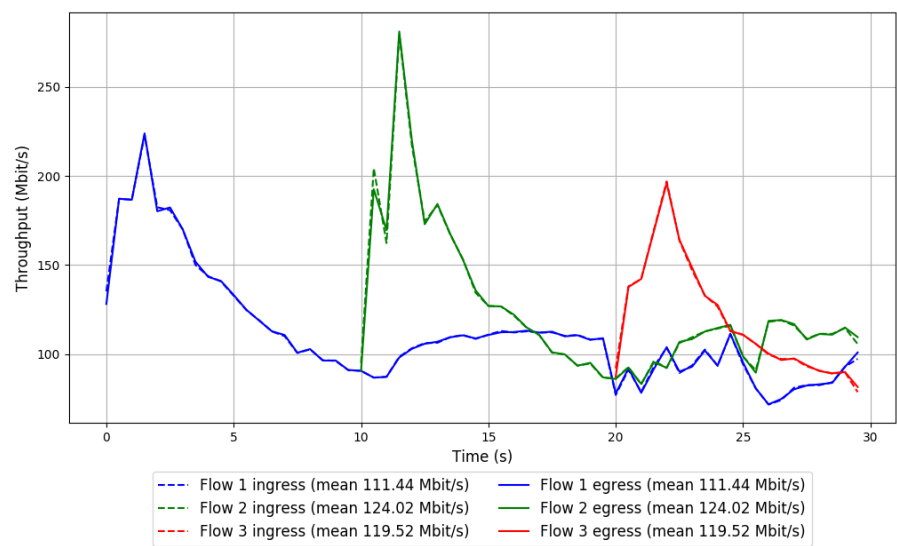
-- Flow 3:

Average throughput: 119.52 Mbit/s

95th percentile per-packet one-way delay: 17.420 ms

Loss rate: 0.00%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-03-06 19:35:55

End at: 2018-03-06 19:36:25

Local clock offset: -2.234 ms

Remote clock offset: 1.051 ms

Below is generated by plot.py at 2018-03-07 01:41:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 232.96 Mbit/s

95th percentile per-packet one-way delay: 18.940 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 116.58 Mbit/s

95th percentile per-packet one-way delay: 18.948 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 116.41 Mbit/s

95th percentile per-packet one-way delay: 17.526 ms

Loss rate: 0.01%

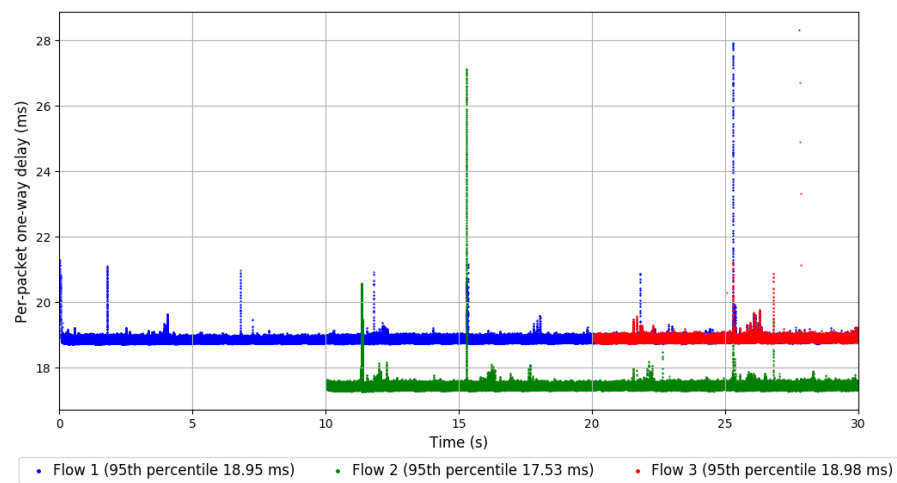
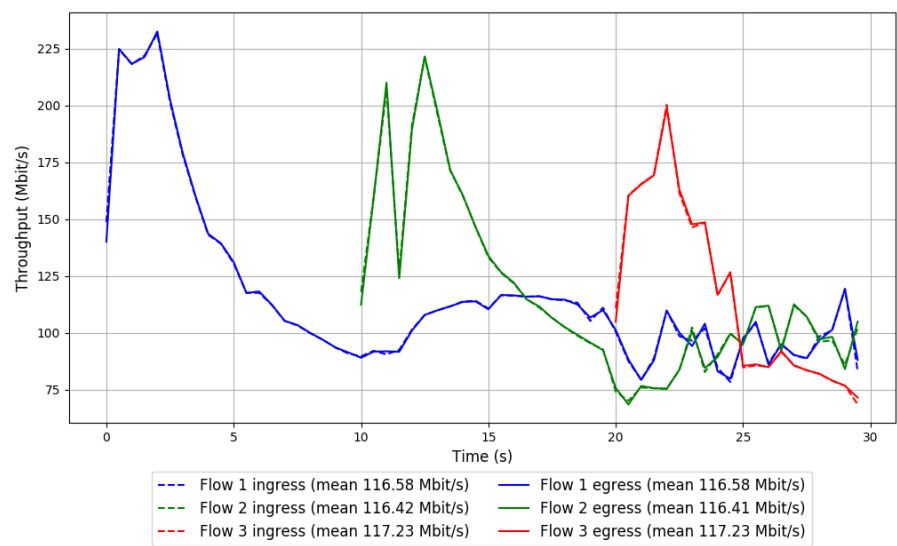
-- Flow 3:

Average throughput: 117.23 Mbit/s

95th percentile per-packet one-way delay: 18.975 ms

Loss rate: 0.01%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-03-06 20:05:19

End at: 2018-03-06 20:05:49

Local clock offset: -0.346 ms

Remote clock offset: 0.897 ms

Below is generated by plot.py at 2018-03-07 01:41:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 239.25 Mbit/s

95th percentile per-packet one-way delay: 18.940 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 120.07 Mbit/s

95th percentile per-packet one-way delay: 18.927 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 112.98 Mbit/s

95th percentile per-packet one-way delay: 18.939 ms

Loss rate: 0.00%

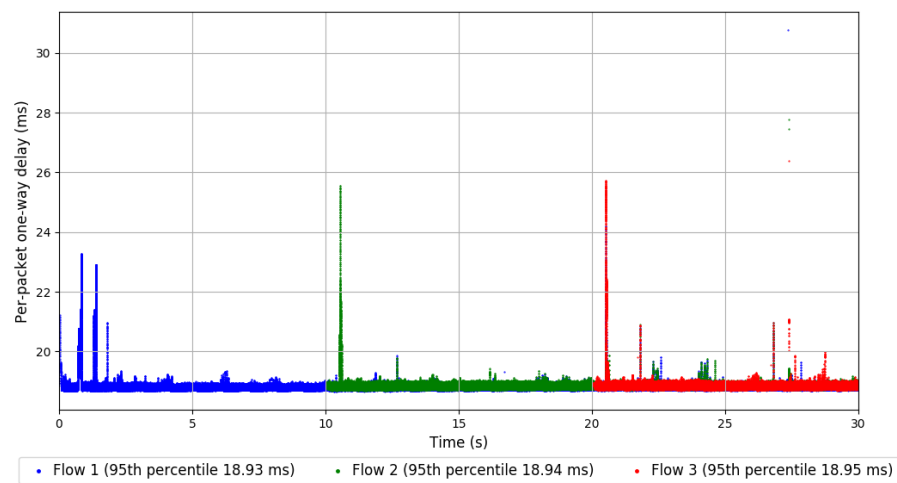
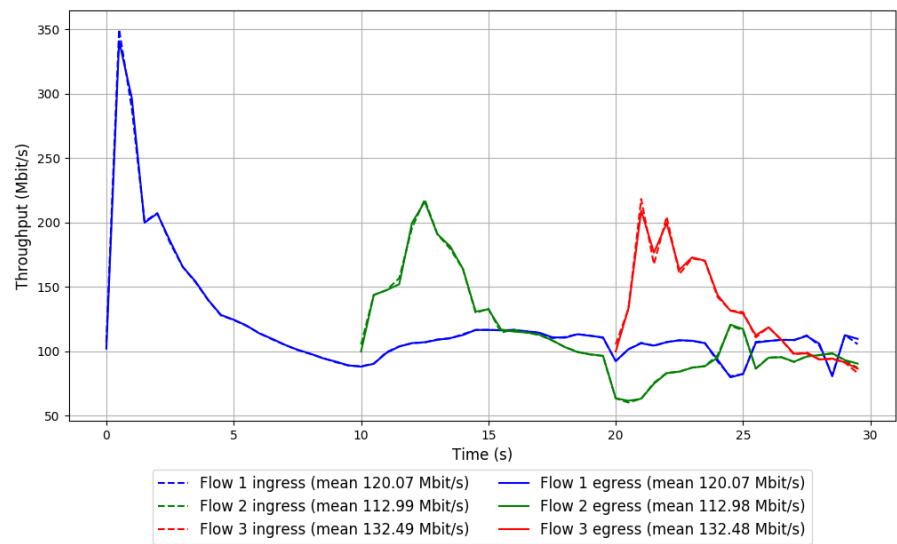
-- Flow 3:

Average throughput: 132.48 Mbit/s

95th percentile per-packet one-way delay: 18.955 ms

Loss rate: 0.01%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-03-06 20:35:05

End at: 2018-03-06 20:35:35

Local clock offset: -3.362 ms

Remote clock offset: 0.674 ms

Below is generated by plot.py at 2018-03-07 01:42:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 238.32 Mbit/s

95th percentile per-packet one-way delay: 18.486 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 117.52 Mbit/s

95th percentile per-packet one-way delay: 18.495 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 115.71 Mbit/s

95th percentile per-packet one-way delay: 18.481 ms

Loss rate: 0.00%

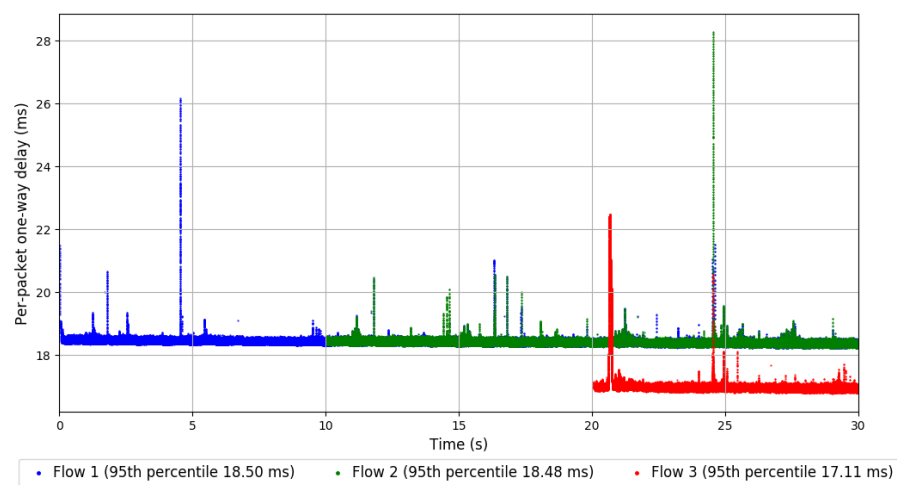
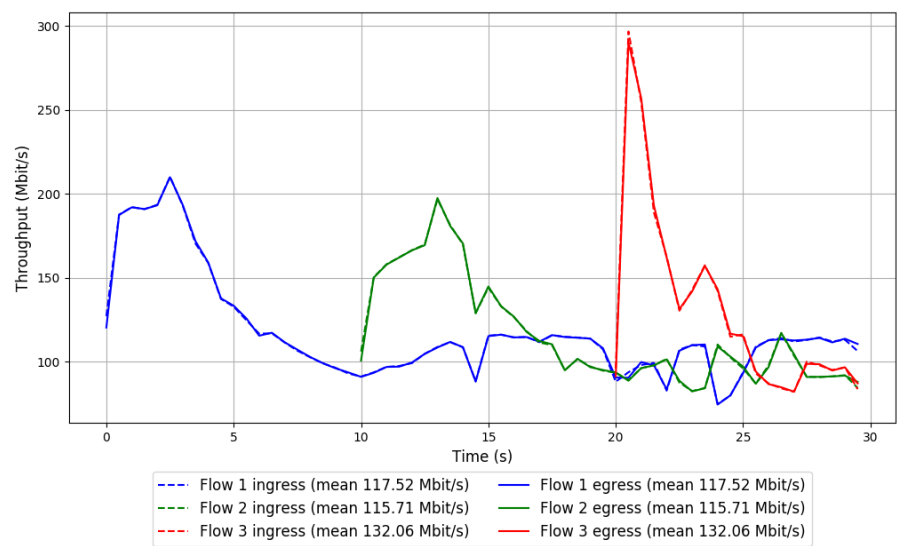
-- Flow 3:

Average throughput: 132.06 Mbit/s

95th percentile per-packet one-way delay: 17.112 ms

Loss rate: 0.00%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-03-06 21:04:21

End at: 2018-03-06 21:04:51

Local clock offset: -7.019 ms

Remote clock offset: 2.513 ms

Below is generated by plot.py at 2018-03-07 01:42:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 238.68 Mbit/s

95th percentile per-packet one-way delay: 18.895 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 112.55 Mbit/s

95th percentile per-packet one-way delay: 18.894 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 119.06 Mbit/s

95th percentile per-packet one-way delay: 17.493 ms

Loss rate: 0.00%

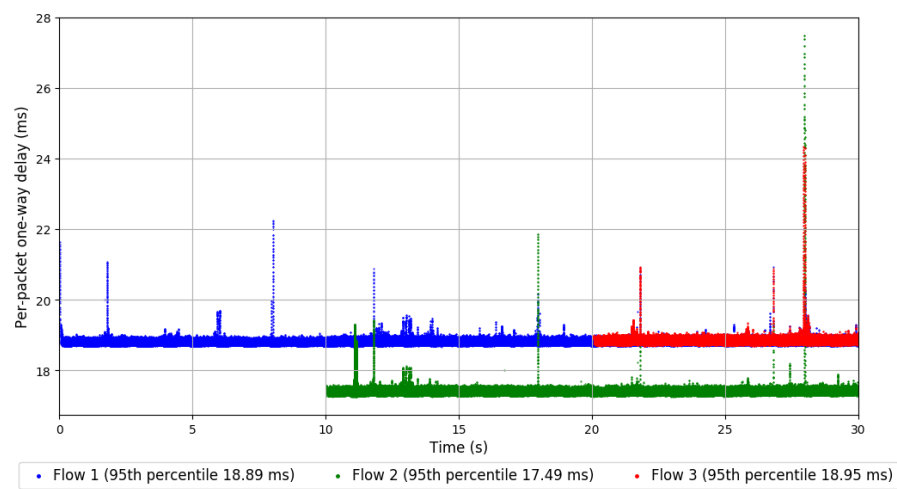
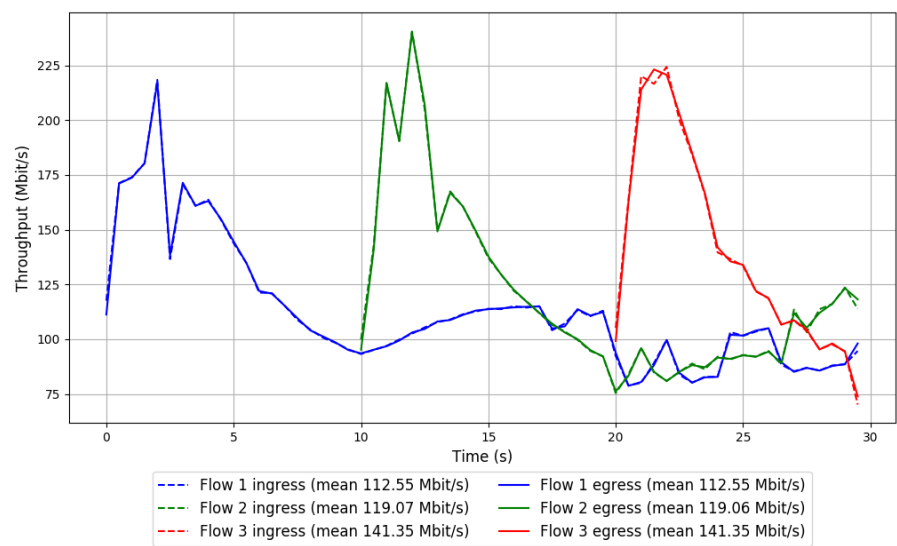
-- Flow 3:

Average throughput: 141.35 Mbit/s

95th percentile per-packet one-way delay: 18.947 ms

Loss rate: 0.00%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-03-06 21:34:07

End at: 2018-03-06 21:34:37

Local clock offset: -7.865 ms

Remote clock offset: 2.974 ms

Below is generated by plot.py at 2018-03-07 01:42:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 222.50 Mbit/s

95th percentile per-packet one-way delay: 18.956 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 110.11 Mbit/s

95th percentile per-packet one-way delay: 18.985 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 103.36 Mbit/s

95th percentile per-packet one-way delay: 17.575 ms

Loss rate: 0.00%

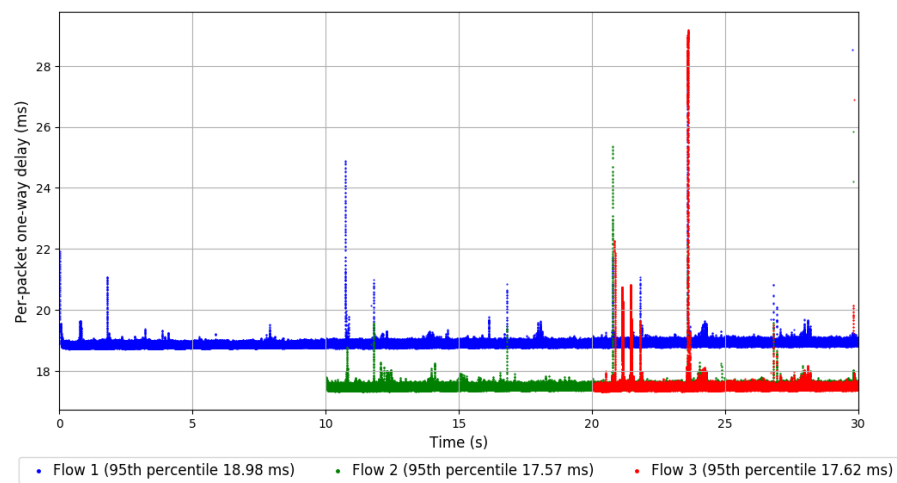
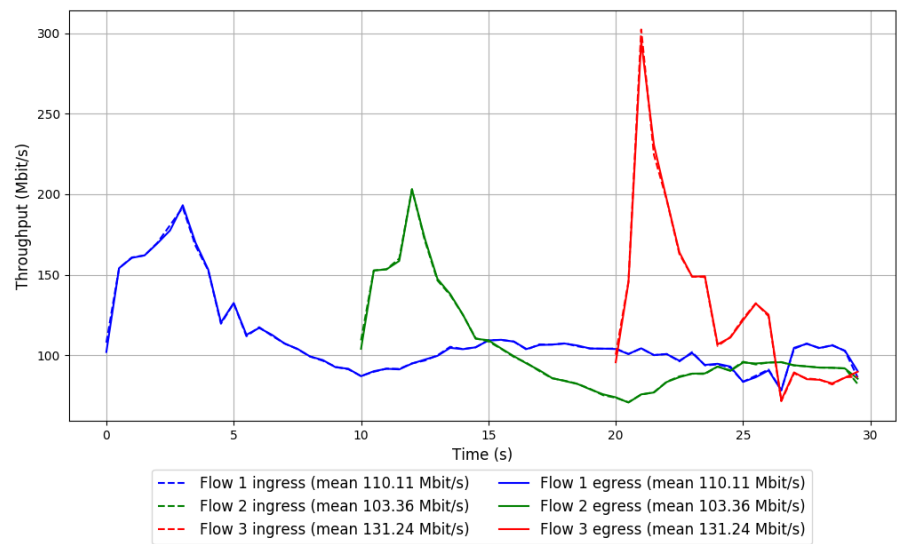
-- Flow 3:

Average throughput: 131.24 Mbit/s

95th percentile per-packet one-way delay: 17.625 ms

Loss rate: 0.00%

Run 10: Report of Copa — Data Link



Run 1: Statistics of FillP

Start at: 2018-03-06 17:05:06

End at: 2018-03-06 17:05:36

Local clock offset: -8.329 ms

Remote clock offset: 2.474 ms

Below is generated by plot.py at 2018-03-07 01:49:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 882.37 Mbit/s

95th percentile per-packet one-way delay: 60.643 ms

Loss rate: 10.01%

-- Flow 1:

Average throughput: 470.89 Mbit/s

95th percentile per-packet one-way delay: 48.718 ms

Loss rate: 8.05%

-- Flow 2:

Average throughput: 477.41 Mbit/s

95th percentile per-packet one-way delay: 76.762 ms

Loss rate: 10.99%

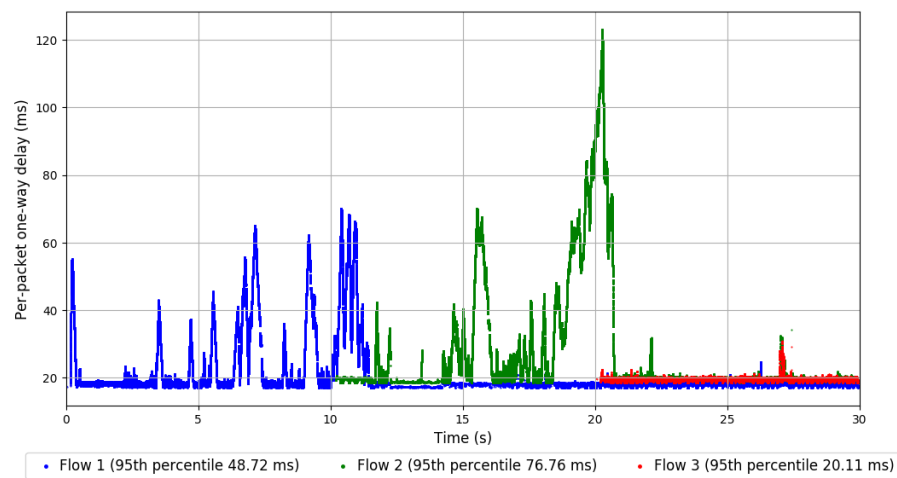
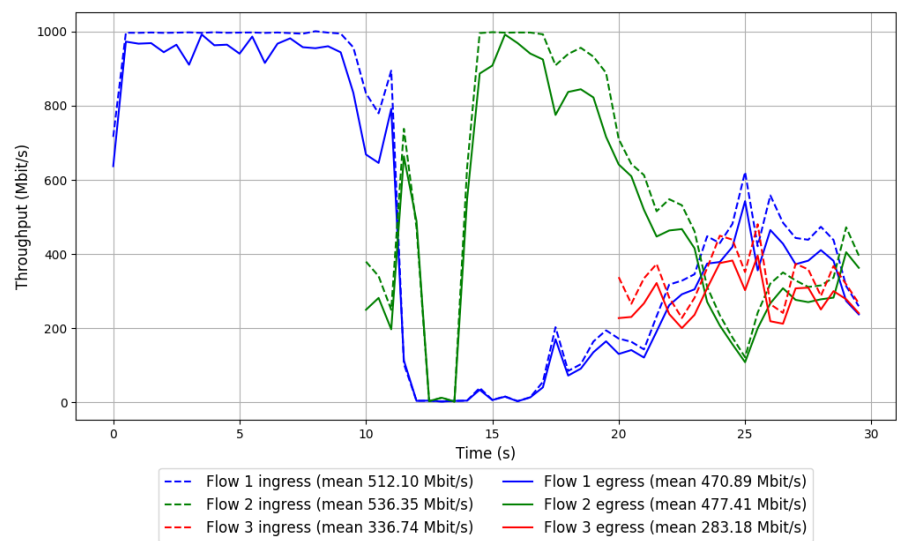
-- Flow 3:

Average throughput: 283.18 Mbit/s

95th percentile per-packet one-way delay: 20.105 ms

Loss rate: 15.91%

Run 1: Report of FillP — Data Link

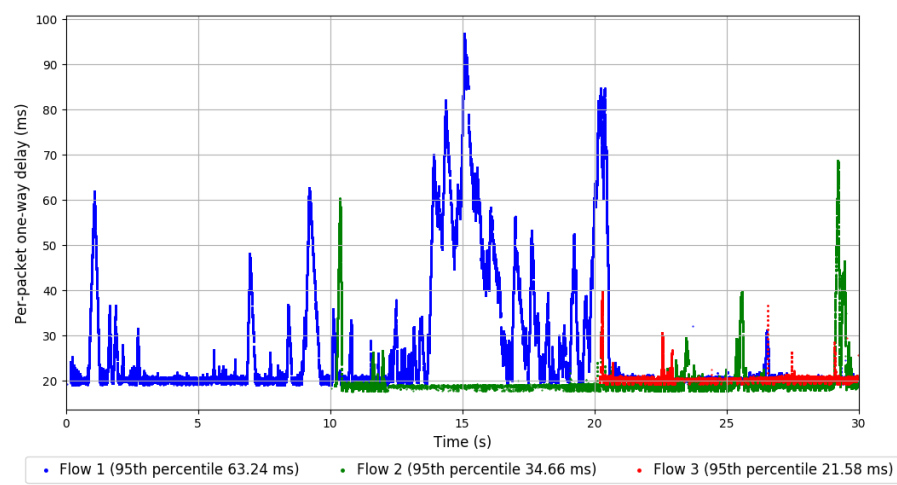
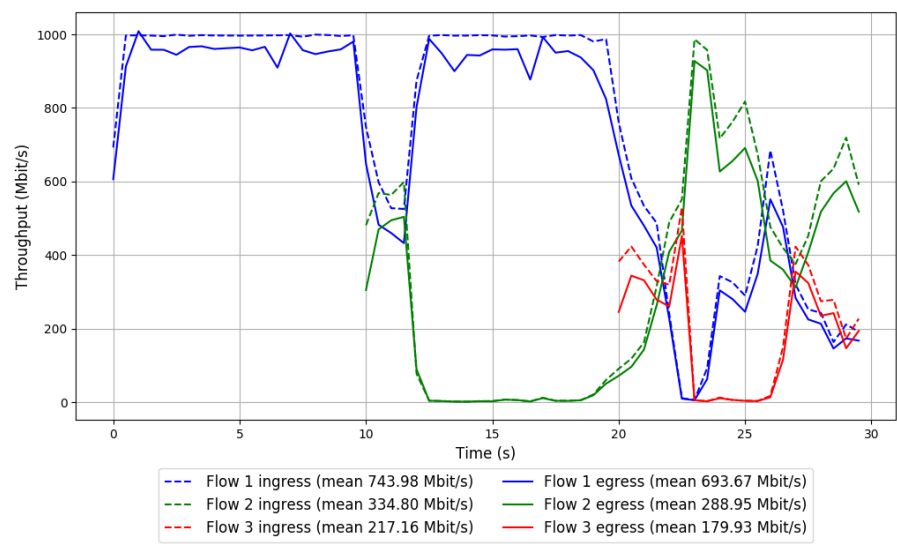


Run 2: Statistics of FillP

Start at: 2018-03-06 17:35:23
End at: 2018-03-06 17:35:53
Local clock offset: -10.668 ms
Remote clock offset: 1.107 ms

Below is generated by plot.py at 2018-03-07 01:55:27
Datalink statistics
-- Total of 3 flows:
Average throughput: 945.60 Mbit/s
95th percentile per-packet one-way delay: 59.930 ms
Loss rate: 8.96%
-- Flow 1:
Average throughput: 693.67 Mbit/s
95th percentile per-packet one-way delay: 63.241 ms
Loss rate: 6.76%
-- Flow 2:
Average throughput: 288.95 Mbit/s
95th percentile per-packet one-way delay: 34.657 ms
Loss rate: 13.69%
-- Flow 3:
Average throughput: 179.93 Mbit/s
95th percentile per-packet one-way delay: 21.582 ms
Loss rate: 17.10%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-03-06 18:05:03

End at: 2018-03-06 18:05:33

Local clock offset: -6.348 ms

Remote clock offset: 0.882 ms

Below is generated by plot.py at 2018-03-07 01:55:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 922.04 Mbit/s

95th percentile per-packet one-way delay: 32.160 ms

Loss rate: 10.22%

-- Flow 1:

Average throughput: 613.52 Mbit/s

95th percentile per-packet one-way delay: 35.144 ms

Loss rate: 7.95%

-- Flow 2:

Average throughput: 253.42 Mbit/s

95th percentile per-packet one-way delay: 20.442 ms

Loss rate: 14.65%

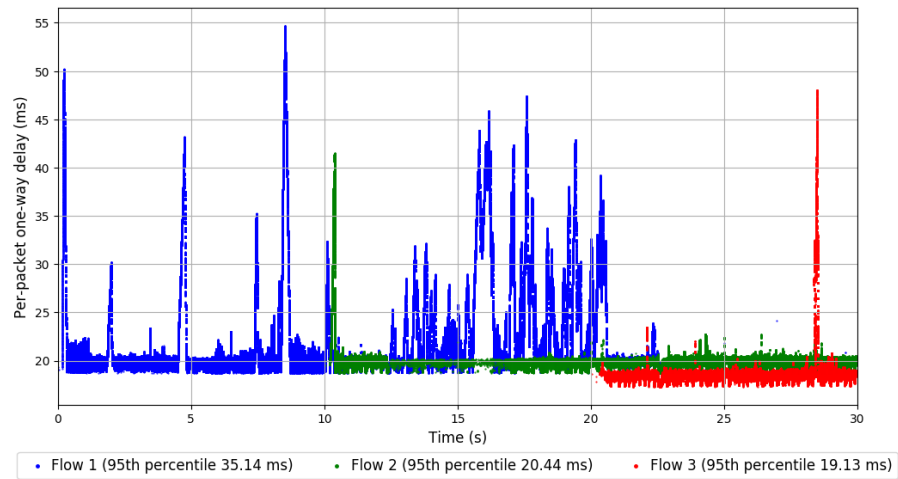
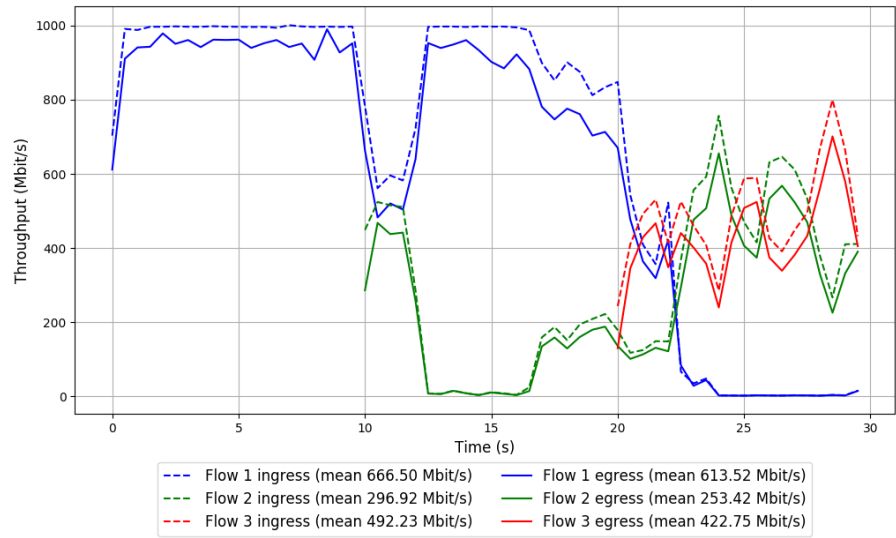
-- Flow 3:

Average throughput: 422.75 Mbit/s

95th percentile per-packet one-way delay: 19.132 ms

Loss rate: 14.11%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-03-06 18:35:02

End at: 2018-03-06 18:35:32

Local clock offset: 2.246 ms

Remote clock offset: 2.547 ms

Below is generated by plot.py at 2018-03-07 01:55:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 750.51 Mbit/s

95th percentile per-packet one-way delay: 53.997 ms

Loss rate: 10.76%

-- Flow 1:

Average throughput: 482.79 Mbit/s

95th percentile per-packet one-way delay: 61.572 ms

Loss rate: 9.96%

-- Flow 2:

Average throughput: 99.28 Mbit/s

95th percentile per-packet one-way delay: 21.825 ms

Loss rate: 15.15%

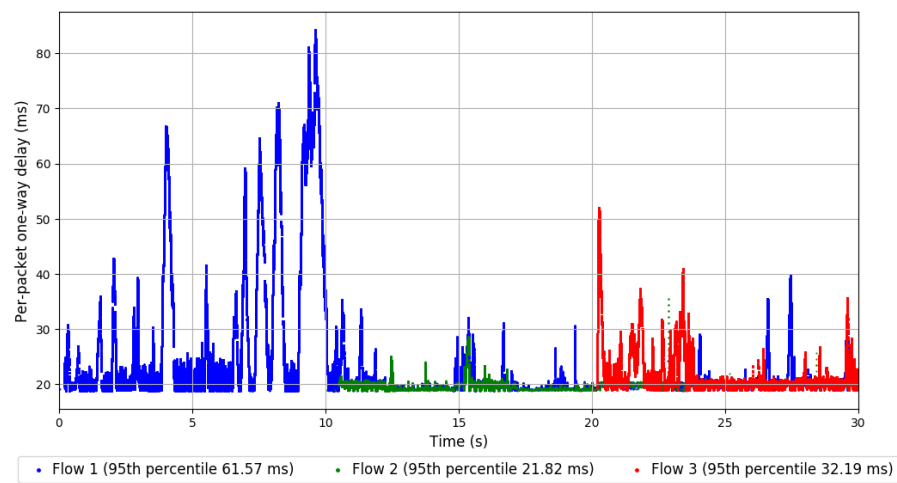
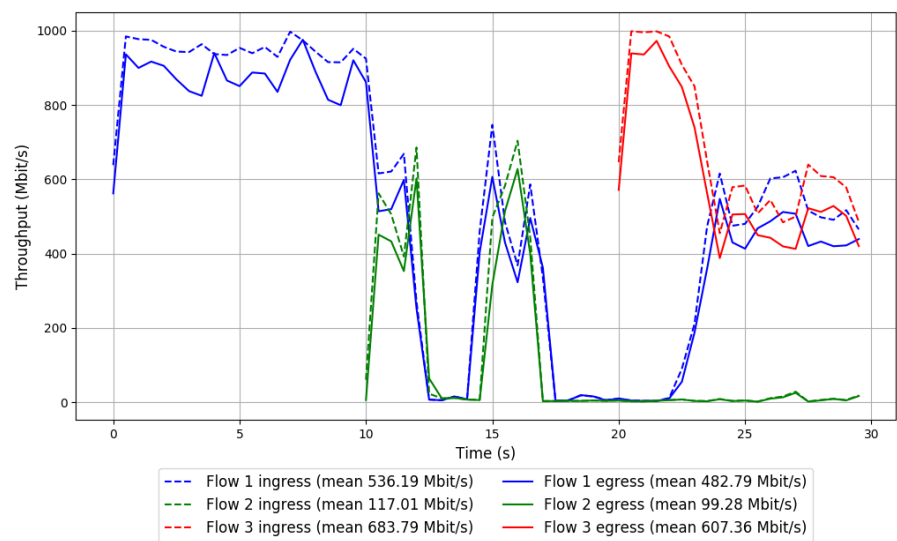
-- Flow 3:

Average throughput: 607.36 Mbit/s

95th percentile per-packet one-way delay: 32.186 ms

Loss rate: 11.17%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-03-06 19:04:38

End at: 2018-03-06 19:05:08

Local clock offset: -5.405 ms

Remote clock offset: 1.714 ms

Below is generated by plot.py at 2018-03-07 01:55:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 835.86 Mbit/s

95th percentile per-packet one-way delay: 64.627 ms

Loss rate: 11.37%

-- Flow 1:

Average throughput: 434.55 Mbit/s

95th percentile per-packet one-way delay: 43.375 ms

Loss rate: 9.61%

-- Flow 2:

Average throughput: 324.01 Mbit/s

95th percentile per-packet one-way delay: 77.203 ms

Loss rate: 12.29%

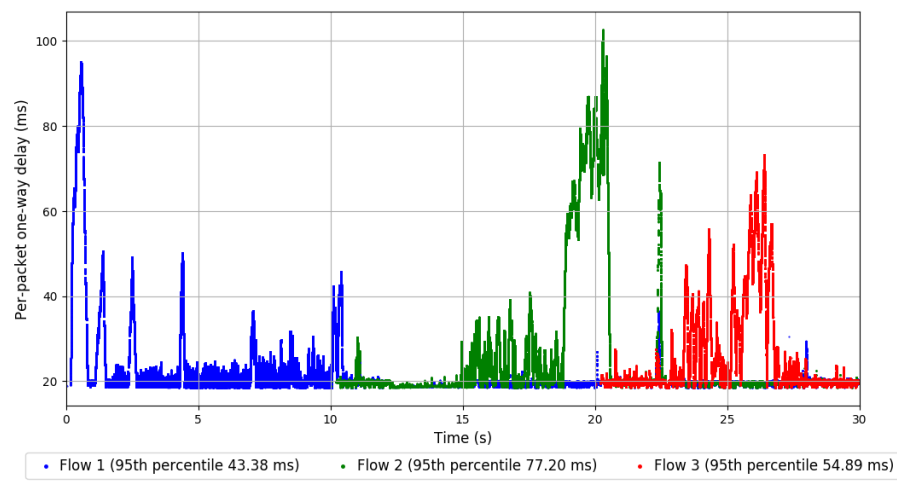
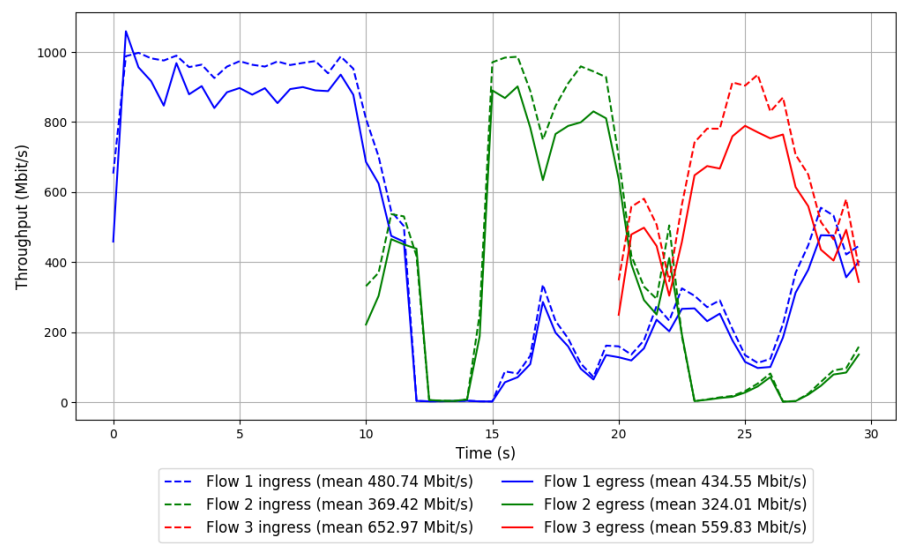
-- Flow 3:

Average throughput: 559.83 Mbit/s

95th percentile per-packet one-way delay: 54.886 ms

Loss rate: 14.26%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-03-06 19:34:10

End at: 2018-03-06 19:34:40

Local clock offset: -2.296 ms

Remote clock offset: 1.047 ms

Below is generated by plot.py at 2018-03-07 01:55:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 775.78 Mbit/s

95th percentile per-packet one-way delay: 57.432 ms

Loss rate: 8.31%

-- Flow 1:

Average throughput: 377.66 Mbit/s

95th percentile per-packet one-way delay: 30.461 ms

Loss rate: 7.07%

-- Flow 2:

Average throughput: 346.91 Mbit/s

95th percentile per-packet one-way delay: 60.690 ms

Loss rate: 8.56%

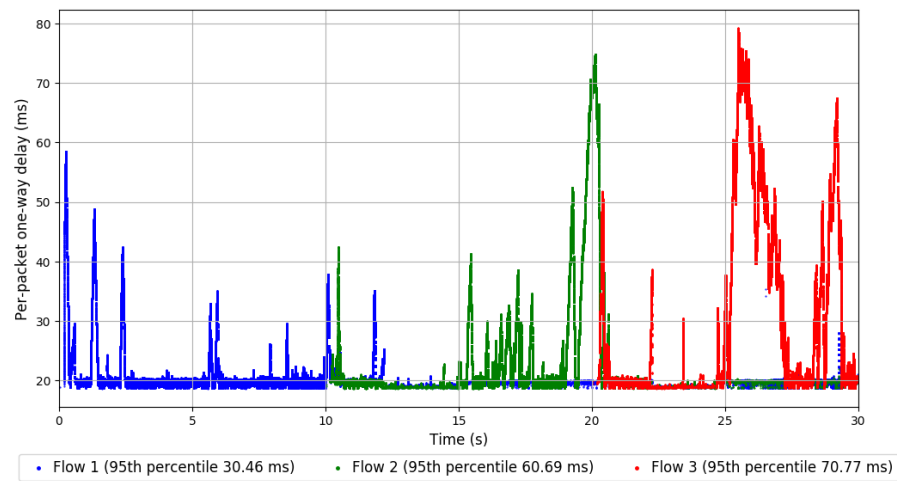
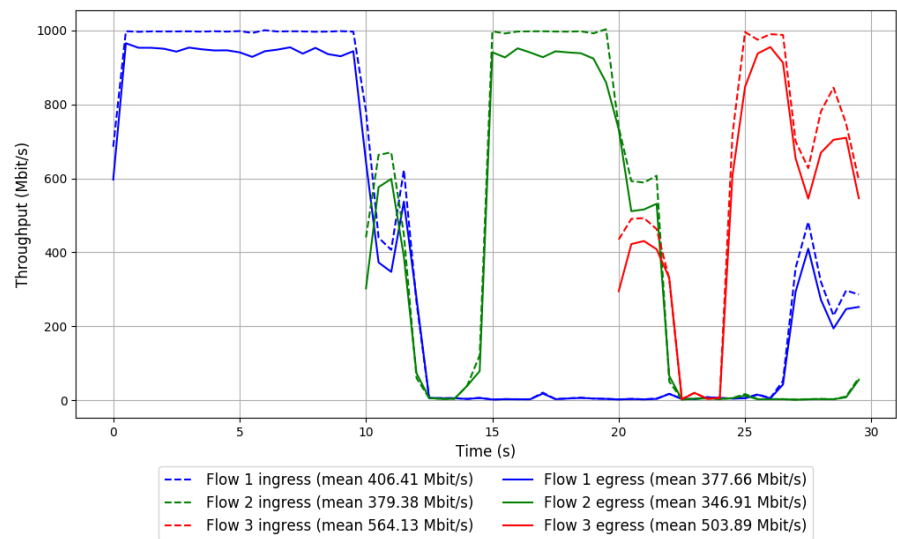
-- Flow 3:

Average throughput: 503.89 Mbit/s

95th percentile per-packet one-way delay: 70.767 ms

Loss rate: 10.68%

Run 6: Report of FillP — Data Link

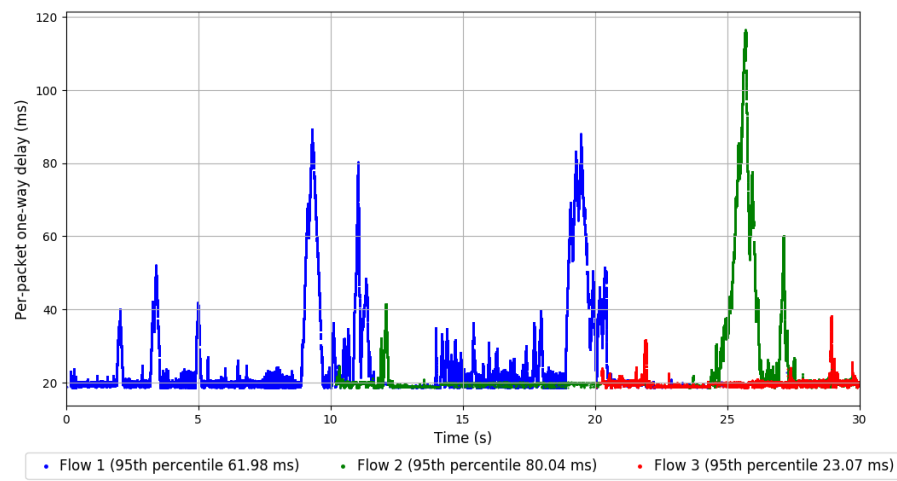
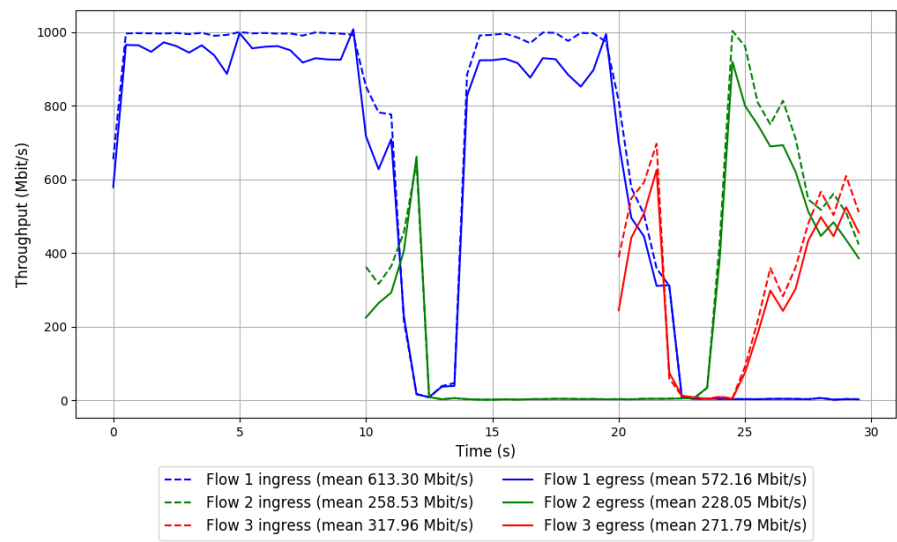


Run 7: Statistics of FillP

Start at: 2018-03-06 20:03:31
End at: 2018-03-06 20:04:01
Local clock offset: -0.376 ms
Remote clock offset: 0.883 ms

Below is generated by plot.py at 2018-03-07 01:55:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 813.99 Mbit/s
95th percentile per-packet one-way delay: 64.616 ms
Loss rate: 8.61%
-- Flow 1:
Average throughput: 572.16 Mbit/s
95th percentile per-packet one-way delay: 61.982 ms
Loss rate: 6.71%
-- Flow 2:
Average throughput: 228.05 Mbit/s
95th percentile per-packet one-way delay: 80.042 ms
Loss rate: 11.78%
-- Flow 3:
Average throughput: 271.79 Mbit/s
95th percentile per-packet one-way delay: 23.070 ms
Loss rate: 14.51%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-03-06 20:33:12

End at: 2018-03-06 20:33:42

Local clock offset: -2.821 ms

Remote clock offset: 0.697 ms

Below is generated by plot.py at 2018-03-07 01:56:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 913.04 Mbit/s

95th percentile per-packet one-way delay: 56.855 ms

Loss rate: 11.99%

-- Flow 1:

Average throughput: 667.39 Mbit/s

95th percentile per-packet one-way delay: 60.061 ms

Loss rate: 10.60%

-- Flow 2:

Average throughput: 304.19 Mbit/s

95th percentile per-packet one-way delay: 18.653 ms

Loss rate: 15.70%

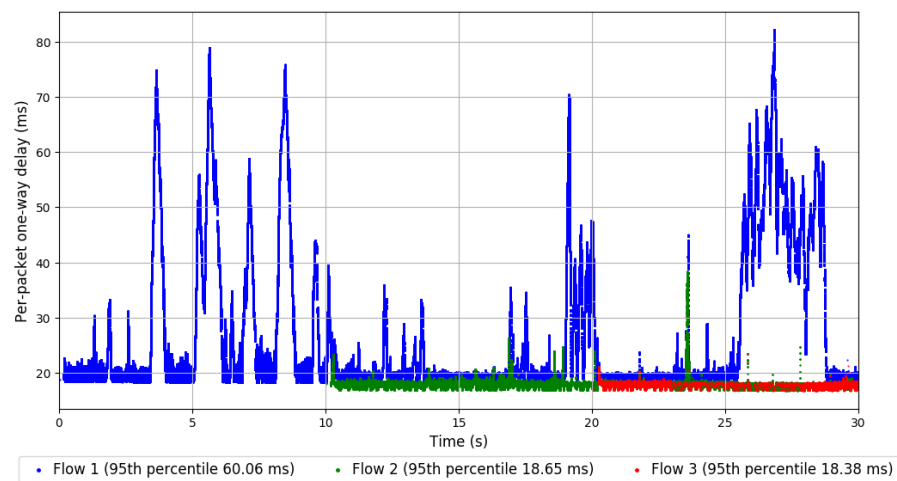
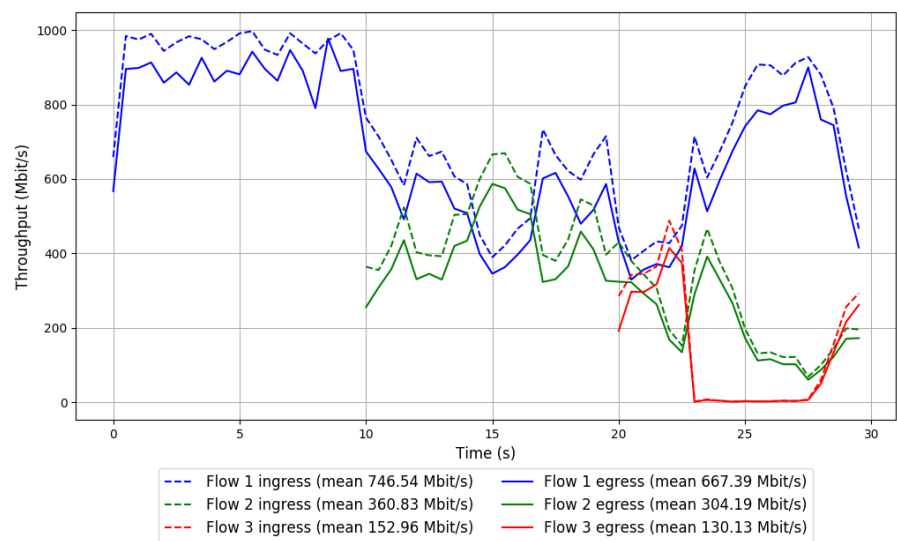
-- Flow 3:

Average throughput: 130.13 Mbit/s

95th percentile per-packet one-way delay: 18.376 ms

Loss rate: 14.91%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-03-06 21:02:39

End at: 2018-03-06 21:03:09

Local clock offset: -7.189 ms

Remote clock offset: 2.489 ms

Below is generated by plot.py at 2018-03-07 02:02:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 683.78 Mbit/s

95th percentile per-packet one-way delay: 61.364 ms

Loss rate: 7.83%

-- Flow 1:

Average throughput: 350.58 Mbit/s

95th percentile per-packet one-way delay: 47.368 ms

Loss rate: 5.90%

-- Flow 2:

Average throughput: 124.76 Mbit/s

95th percentile per-packet one-way delay: 60.461 ms

Loss rate: 13.94%

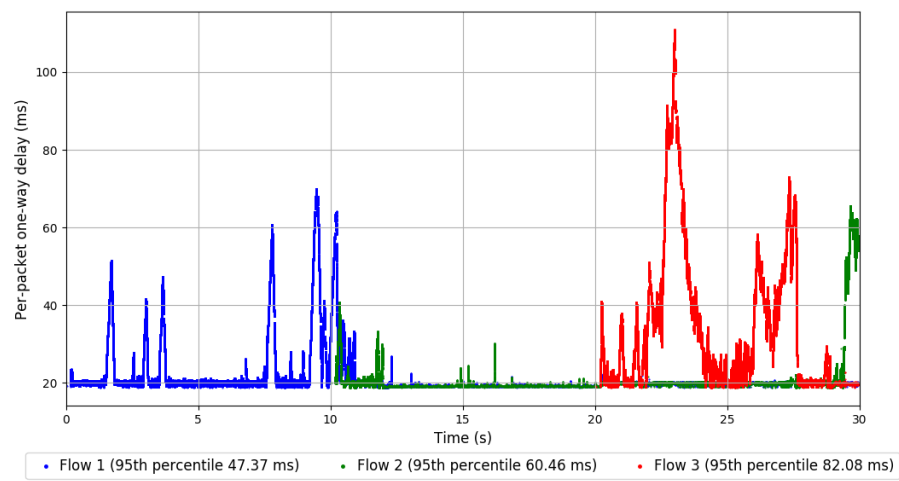
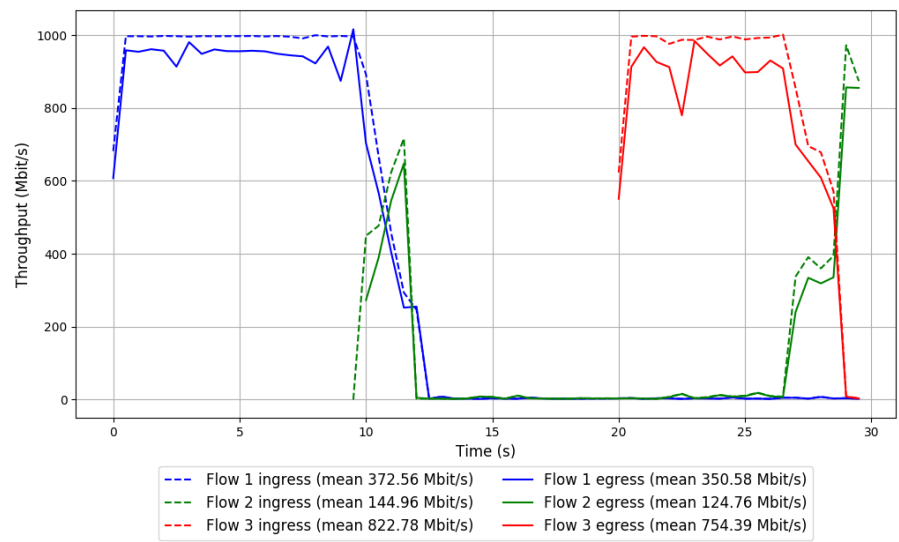
-- Flow 3:

Average throughput: 754.39 Mbit/s

95th percentile per-packet one-way delay: 82.083 ms

Loss rate: 8.31%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-03-06 21:32:17

End at: 2018-03-06 21:32:47

Local clock offset: -7.789 ms

Remote clock offset: 2.928 ms

Below is generated by plot.py at 2018-03-07 02:07:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 849.36 Mbit/s

95th percentile per-packet one-way delay: 51.021 ms

Loss rate: 11.09%

-- Flow 1:

Average throughput: 466.55 Mbit/s

95th percentile per-packet one-way delay: 69.762 ms

Loss rate: 9.45%

-- Flow 2:

Average throughput: 394.70 Mbit/s

95th percentile per-packet one-way delay: 32.124 ms

Loss rate: 12.78%

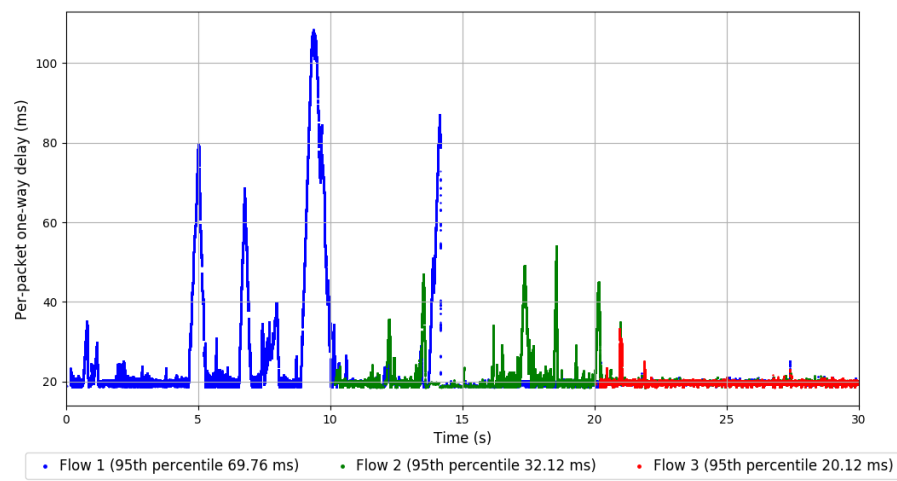
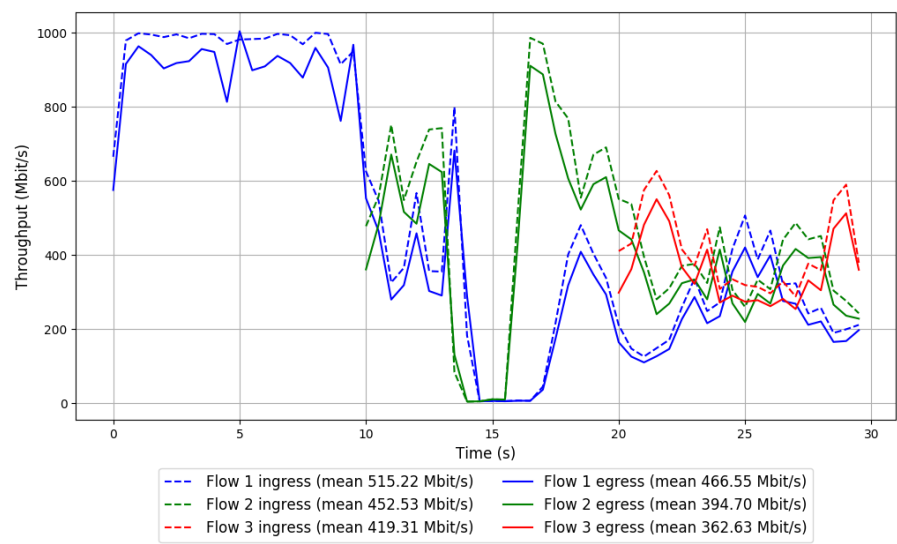
-- Flow 3:

Average throughput: 362.63 Mbit/s

95th percentile per-packet one-way delay: 20.121 ms

Loss rate: 13.52%

Run 10: Report of FillP — Data Link



Run 1: Statistics of Indigo-1-32

Start at: 2018-03-06 16:45:07

End at: 2018-03-06 16:45:37

Local clock offset: -6.43 ms

Remote clock offset: 2.116 ms

Below is generated by plot.py at 2018-03-07 02:07:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 359.71 Mbit/s

95th percentile per-packet one-way delay: 19.581 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 183.57 Mbit/s

95th percentile per-packet one-way delay: 19.620 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 183.14 Mbit/s

95th percentile per-packet one-way delay: 19.679 ms

Loss rate: 0.01%

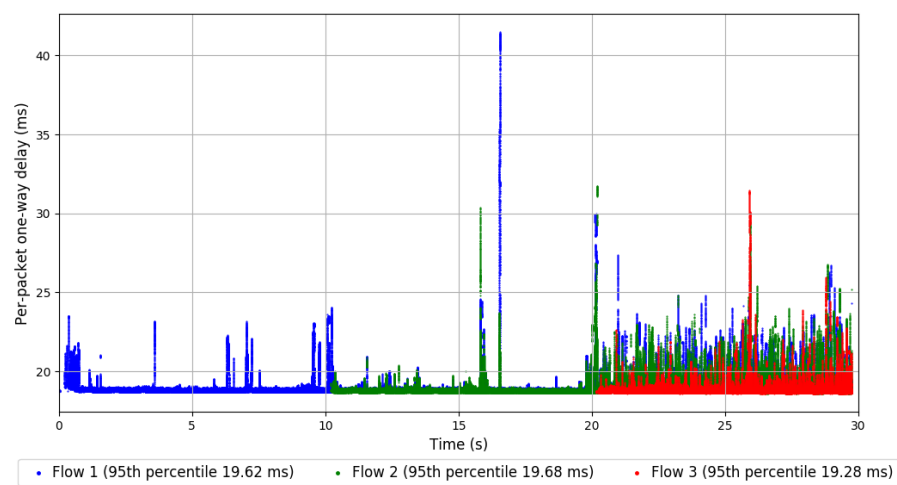
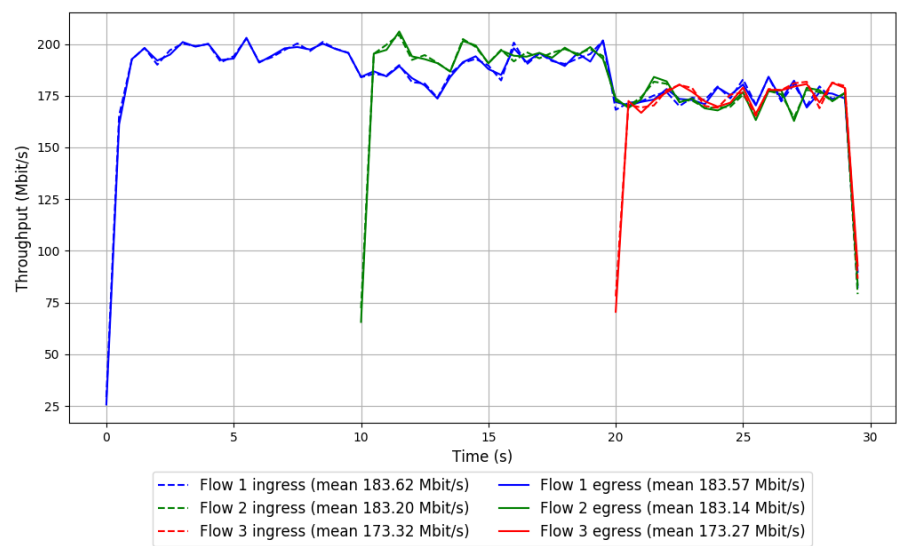
-- Flow 3:

Average throughput: 173.27 Mbit/s

95th percentile per-packet one-way delay: 19.281 ms

Loss rate: 0.04%

Run 1: Report of Indigo-1-32 — Data Link



Run 2: Statistics of Indigo-1-32

Start at: 2018-03-06 17:15:07

End at: 2018-03-06 17:15:37

Local clock offset: -9.223 ms

Remote clock offset: 2.045 ms

Below is generated by plot.py at 2018-03-07 02:07:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 367.50 Mbit/s

95th percentile per-packet one-way delay: 19.526 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 188.89 Mbit/s

95th percentile per-packet one-way delay: 19.192 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 185.49 Mbit/s

95th percentile per-packet one-way delay: 19.596 ms

Loss rate: 0.00%

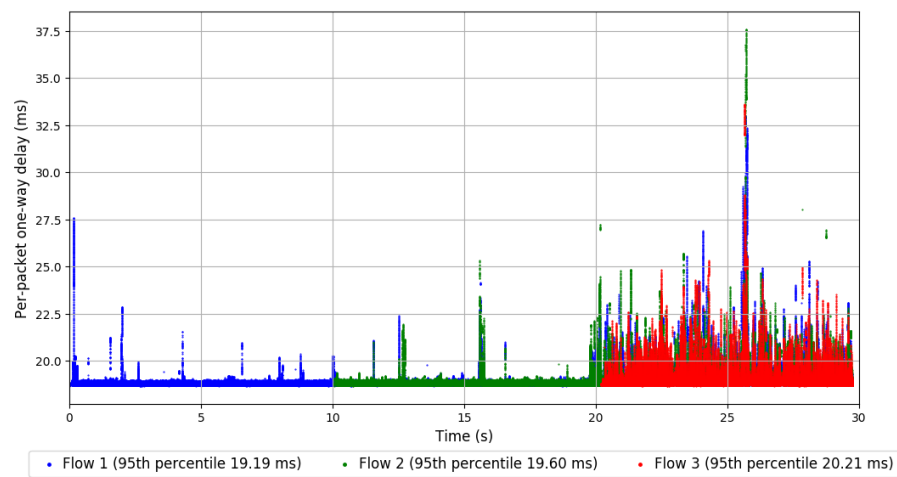
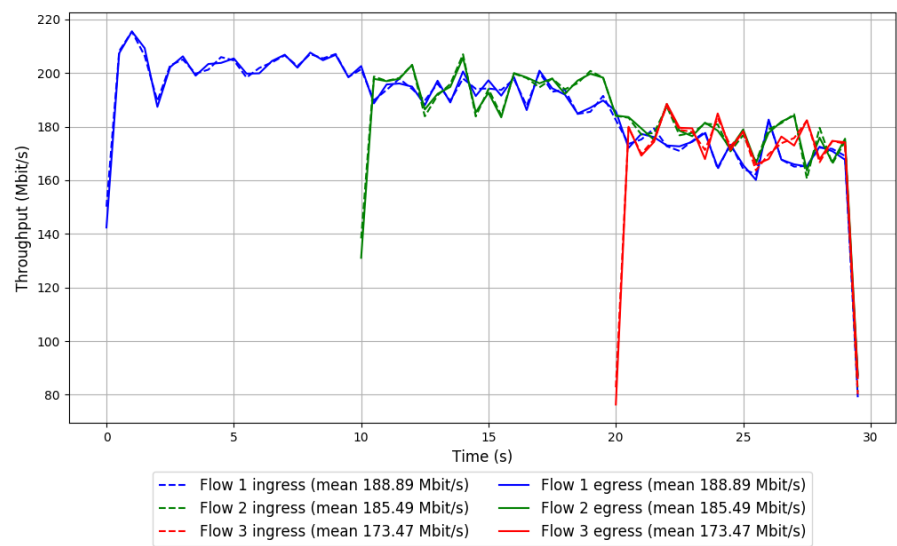
-- Flow 3:

Average throughput: 173.47 Mbit/s

95th percentile per-packet one-way delay: 20.215 ms

Loss rate: 0.00%

Run 2: Report of Indigo-1-32 — Data Link



Run 3: Statistics of Indigo-1-32

Start at: 2018-03-06 17:45:01

End at: 2018-03-06 17:45:31

Local clock offset: -7.673 ms

Remote clock offset: 1.0 ms

Below is generated by plot.py at 2018-03-07 02:07:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 373.03 Mbit/s

95th percentile per-packet one-way delay: 19.976 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 191.90 Mbit/s

95th percentile per-packet one-way delay: 20.344 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 188.03 Mbit/s

95th percentile per-packet one-way delay: 19.656 ms

Loss rate: 0.00%

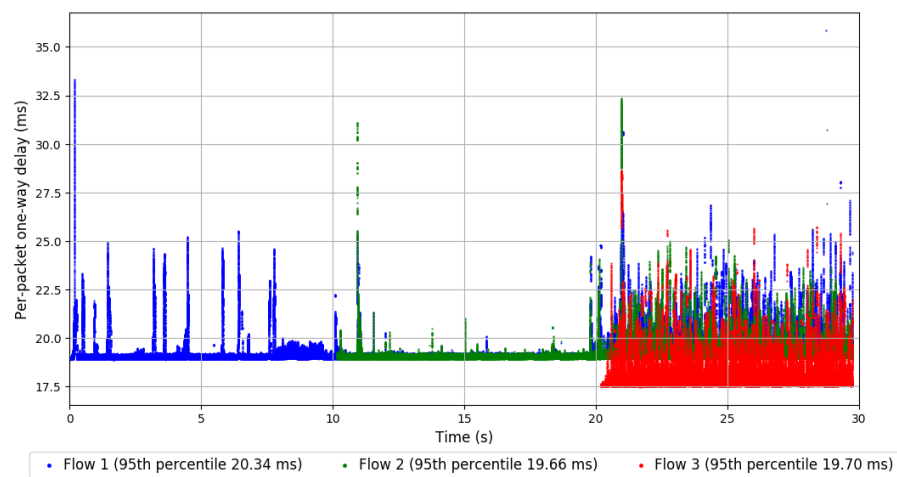
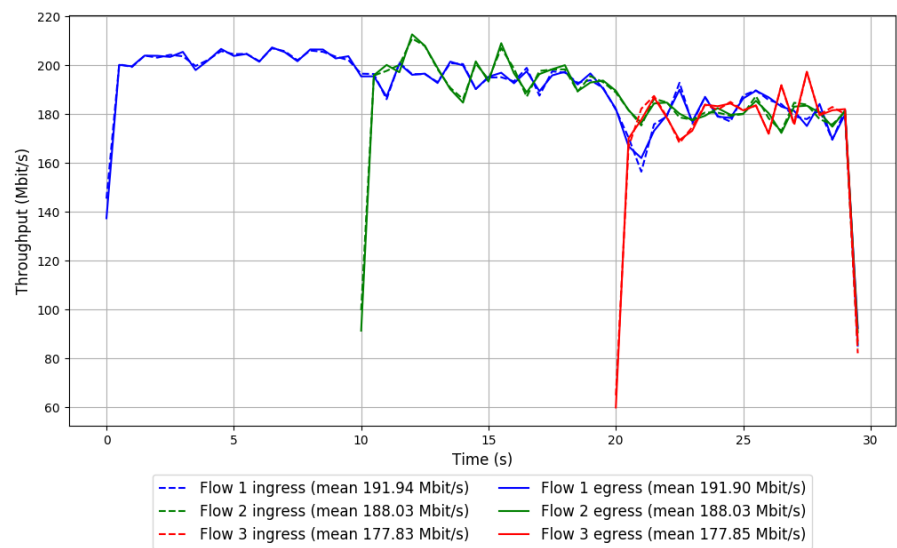
-- Flow 3:

Average throughput: 177.85 Mbit/s

95th percentile per-packet one-way delay: 19.704 ms

Loss rate: 0.00%

Run 3: Report of Indigo-1-32 — Data Link



Run 4: Statistics of Indigo-1-32

Start at: 2018-03-06 18:14:59

End at: 2018-03-06 18:15:29

Local clock offset: -2.711 ms

Remote clock offset: 0.814 ms

Below is generated by plot.py at 2018-03-07 02:07:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 364.74 Mbit/s

95th percentile per-packet one-way delay: 19.735 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 188.21 Mbit/s

95th percentile per-packet one-way delay: 18.466 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 184.77 Mbit/s

95th percentile per-packet one-way delay: 20.027 ms

Loss rate: 0.00%

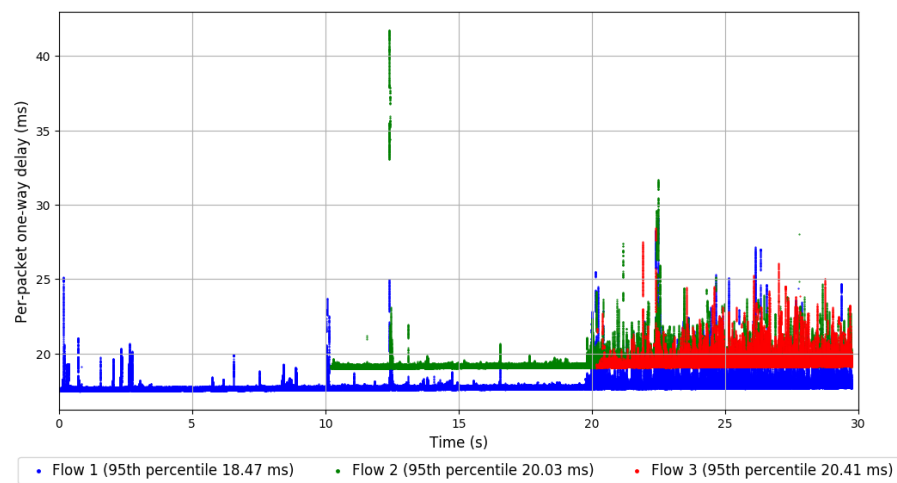
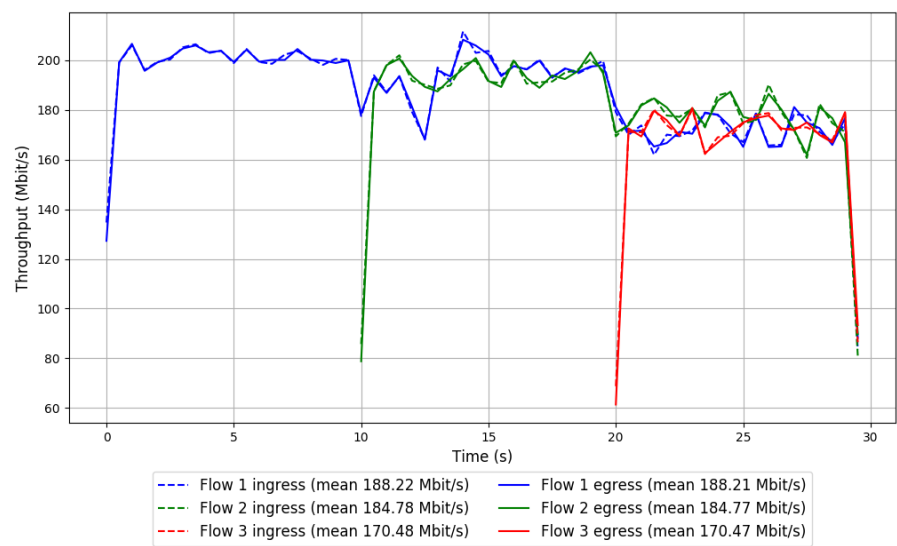
-- Flow 3:

Average throughput: 170.47 Mbit/s

95th percentile per-packet one-way delay: 20.415 ms

Loss rate: 0.00%

Run 4: Report of Indigo-1-32 — Data Link



Run 5: Statistics of Indigo-1-32

Start at: 2018-03-06 18:44:43

End at: 2018-03-06 18:45:13

Local clock offset: 2.003 ms

Remote clock offset: 2.836 ms

Below is generated by plot.py at 2018-03-07 02:07:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 368.56 Mbit/s

95th percentile per-packet one-way delay: 18.727 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 191.28 Mbit/s

95th percentile per-packet one-way delay: 18.595 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 183.31 Mbit/s

95th percentile per-packet one-way delay: 18.488 ms

Loss rate: 0.00%

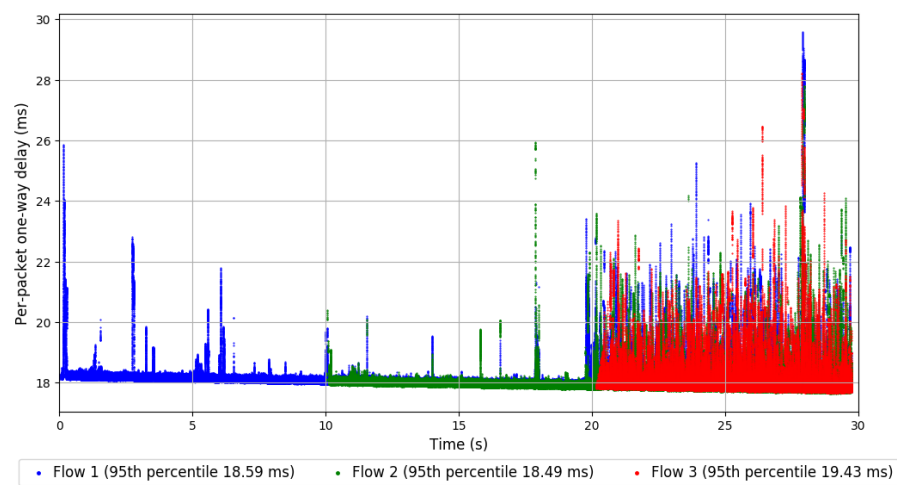
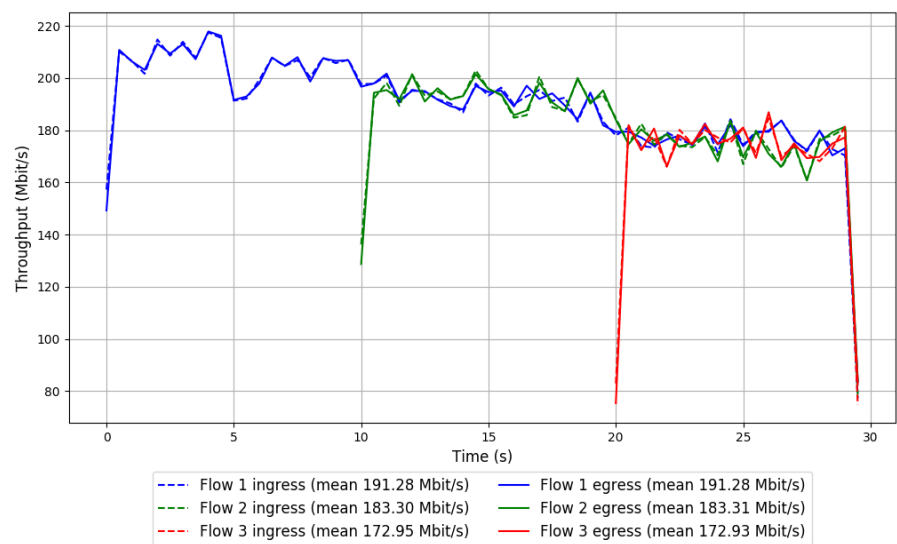
-- Flow 3:

Average throughput: 172.93 Mbit/s

95th percentile per-packet one-way delay: 19.431 ms

Loss rate: 0.01%

Run 5: Report of Indigo-1-32 — Data Link



Run 6: Statistics of Indigo-1-32

Start at: 2018-03-06 19:14:30

End at: 2018-03-06 19:15:00

Local clock offset: -6.191 ms

Remote clock offset: 1.302 ms

Below is generated by plot.py at 2018-03-07 02:07:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 372.48 Mbit/s

95th percentile per-packet one-way delay: 19.830 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 192.01 Mbit/s

95th percentile per-packet one-way delay: 19.854 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 187.23 Mbit/s

95th percentile per-packet one-way delay: 18.404 ms

Loss rate: 0.00%

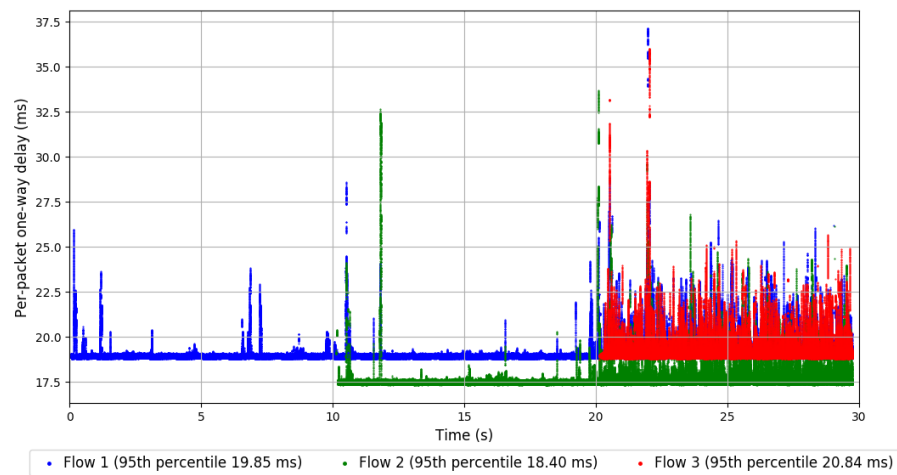
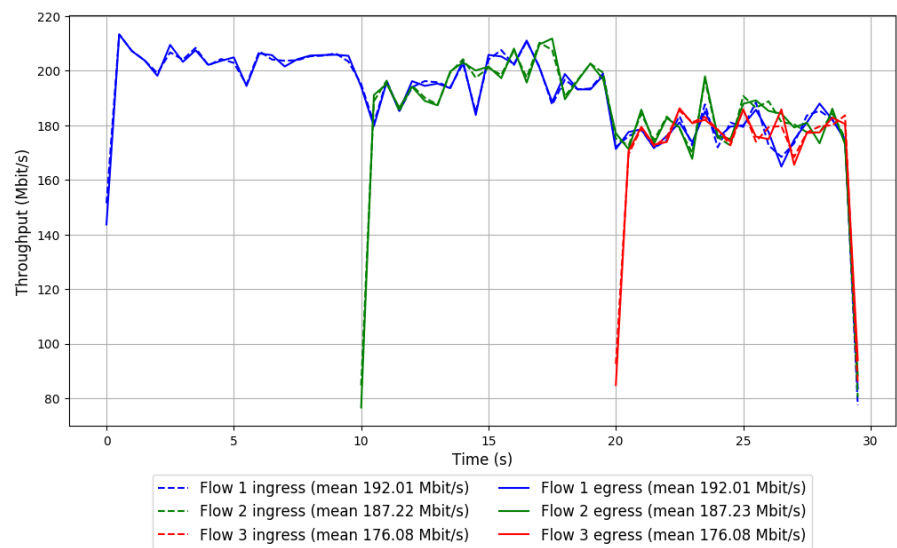
-- Flow 3:

Average throughput: 176.08 Mbit/s

95th percentile per-packet one-way delay: 20.839 ms

Loss rate: 0.00%

Run 6: Report of Indigo-1-32 — Data Link



Run 7: Statistics of Indigo-1-32

Start at: 2018-03-06 19:43:43

End at: 2018-03-06 19:44:13

Local clock offset: -1.531 ms

Remote clock offset: 1.044 ms

Below is generated by plot.py at 2018-03-07 02:07:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 373.92 Mbit/s

95th percentile per-packet one-way delay: 19.563 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 192.26 Mbit/s

95th percentile per-packet one-way delay: 19.481 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 187.87 Mbit/s

95th percentile per-packet one-way delay: 18.367 ms

Loss rate: 0.01%

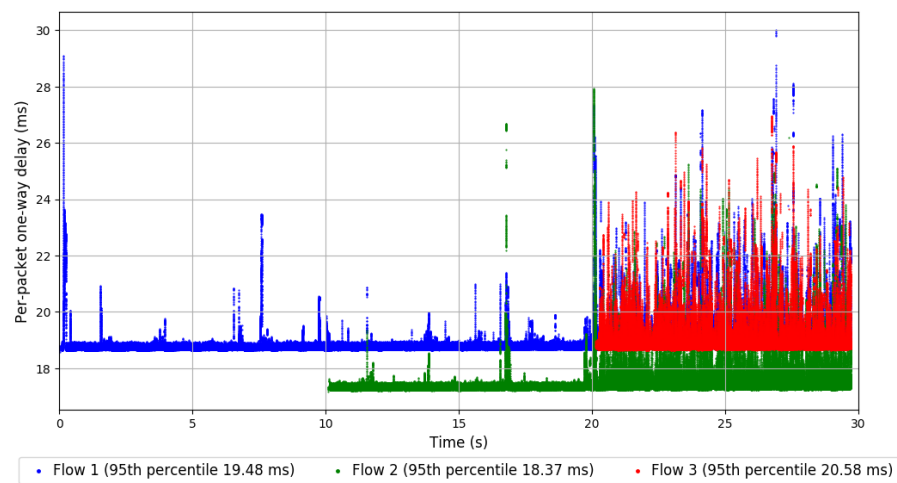
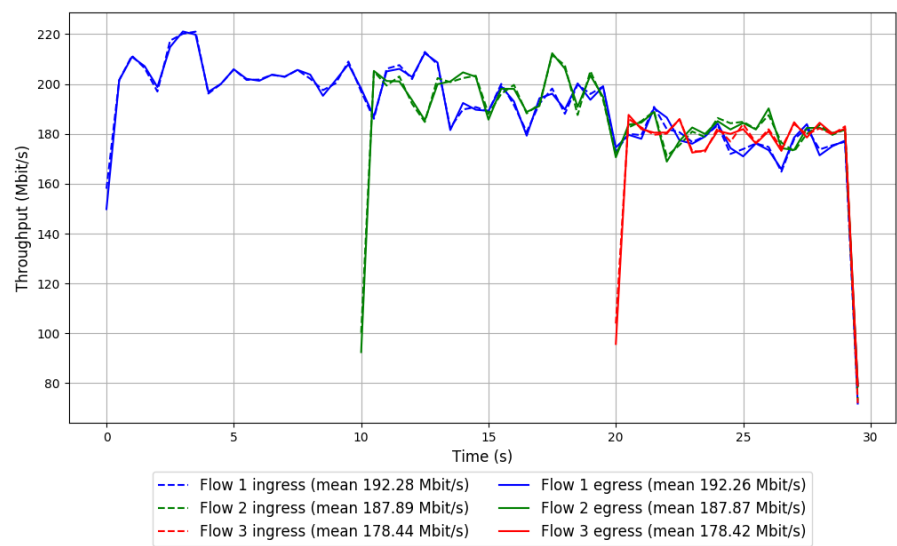
-- Flow 3:

Average throughput: 178.42 Mbit/s

95th percentile per-packet one-way delay: 20.584 ms

Loss rate: 0.01%

Run 7: Report of Indigo-1-32 — Data Link



Run 8: Statistics of Indigo-1-32

Start at: 2018-03-06 20:13:14

End at: 2018-03-06 20:13:44

Local clock offset: 0.153 ms

Remote clock offset: 0.929 ms

Below is generated by plot.py at 2018-03-07 02:07:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 363.16 Mbit/s

95th percentile per-packet one-way delay: 19.572 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 188.95 Mbit/s

95th percentile per-packet one-way delay: 19.475 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 180.37 Mbit/s

95th percentile per-packet one-way delay: 18.414 ms

Loss rate: 0.03%

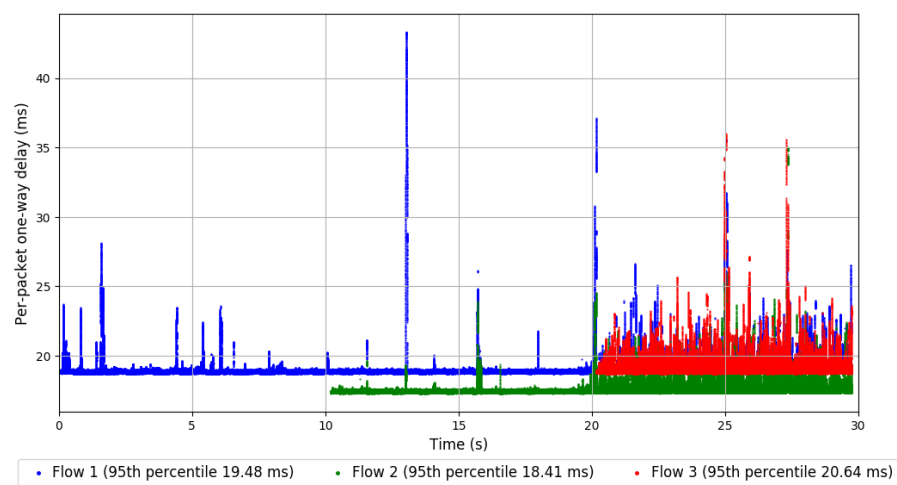
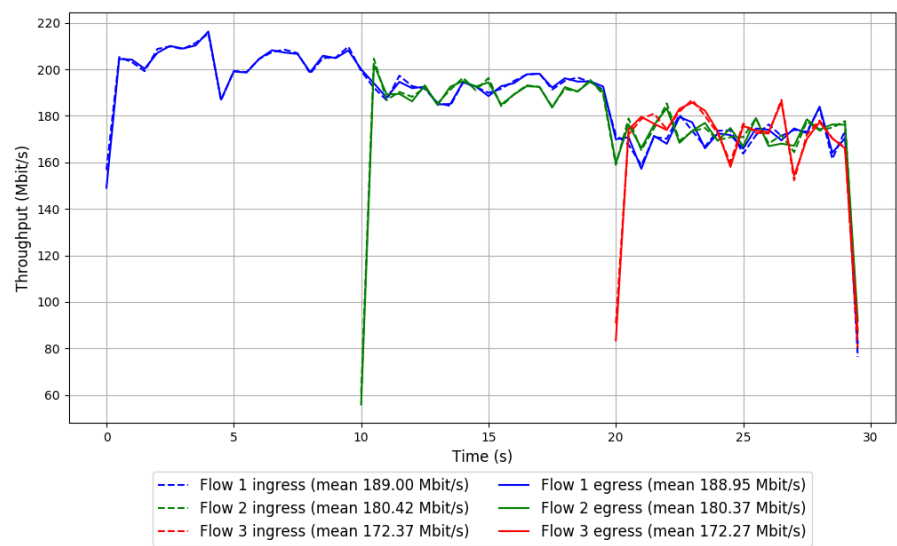
-- Flow 3:

Average throughput: 172.27 Mbit/s

95th percentile per-packet one-way delay: 20.643 ms

Loss rate: 0.07%

Run 8: Report of Indigo-1-32 — Data Link



Run 9: Statistics of Indigo-1-32

Start at: 2018-03-06 20:42:57

End at: 2018-03-06 20:43:28

Local clock offset: -5.243 ms

Remote clock offset: 1.749 ms

Below is generated by plot.py at 2018-03-07 02:07:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 364.26 Mbit/s

95th percentile per-packet one-way delay: 19.213 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 190.65 Mbit/s

95th percentile per-packet one-way delay: 19.095 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 180.37 Mbit/s

95th percentile per-packet one-way delay: 19.442 ms

Loss rate: 0.01%

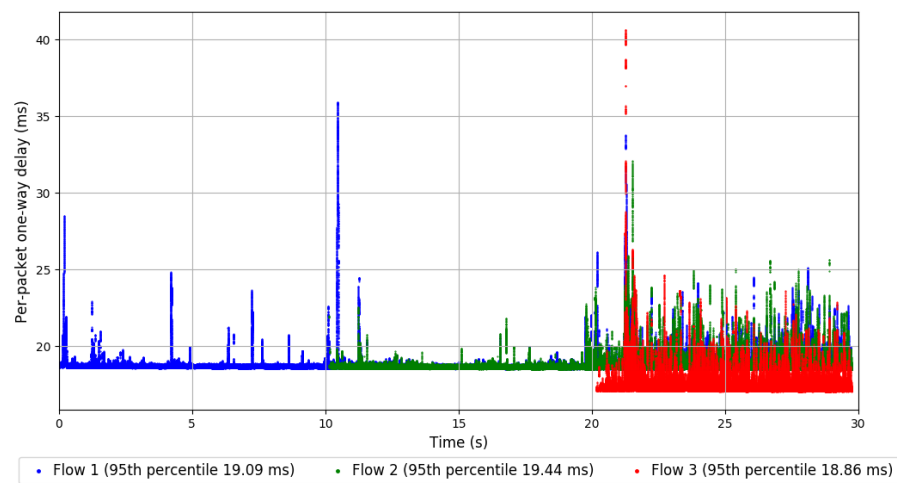
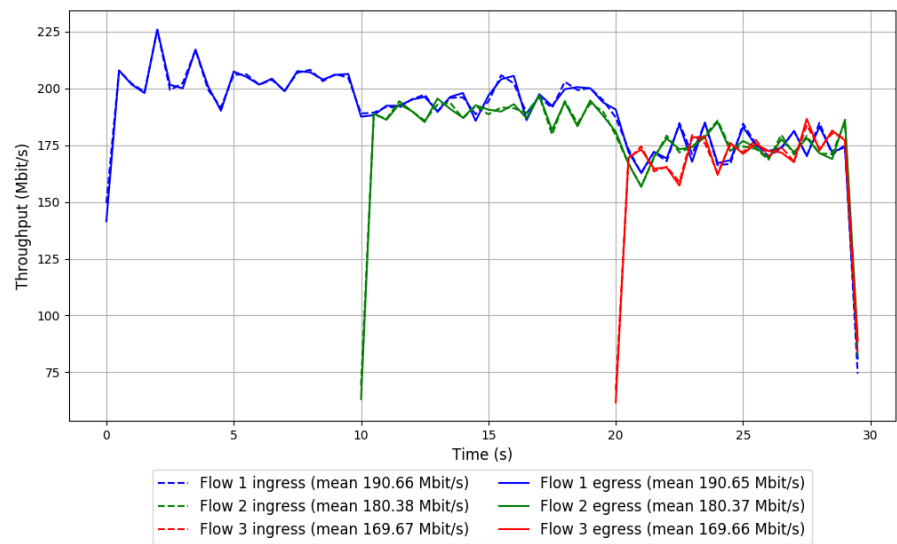
-- Flow 3:

Average throughput: 169.66 Mbit/s

95th percentile per-packet one-way delay: 18.856 ms

Loss rate: 0.01%

Run 9: Report of Indigo-1-32 — Data Link



Run 10: Statistics of Indigo-1-32

Start at: 2018-03-06 21:12:14

End at: 2018-03-06 21:12:44

Local clock offset: -6.839 ms

Remote clock offset: 2.696 ms

Below is generated by plot.py at 2018-03-07 02:07:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 368.60 Mbit/s

95th percentile per-packet one-way delay: 19.878 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 191.55 Mbit/s

95th percentile per-packet one-way delay: 19.600 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 182.88 Mbit/s

95th percentile per-packet one-way delay: 19.823 ms

Loss rate: 0.00%

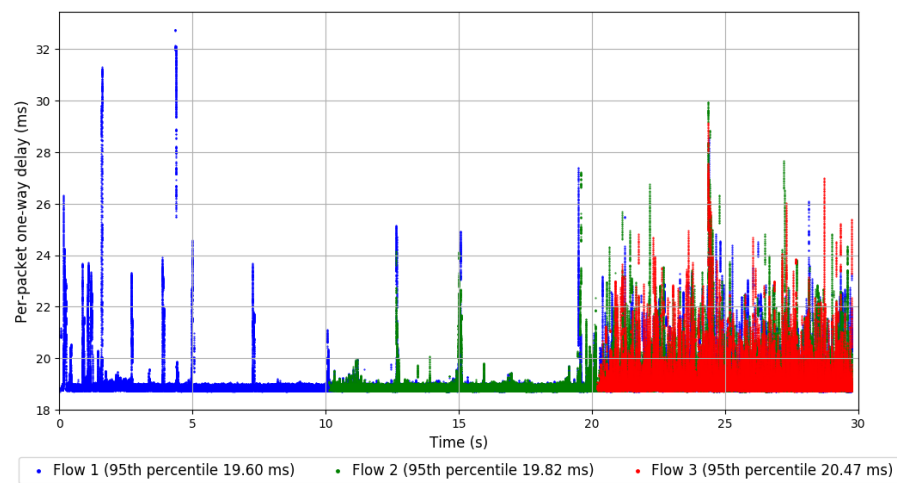
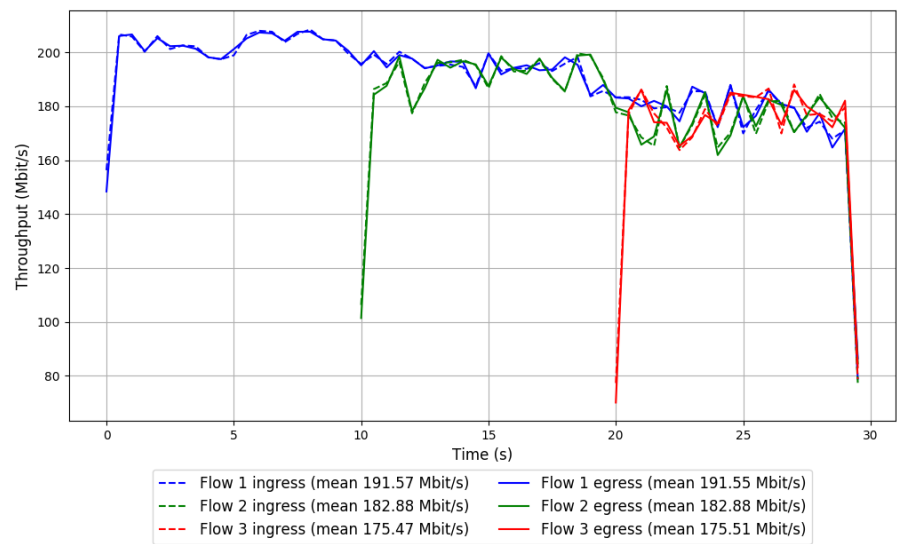
-- Flow 3:

Average throughput: 175.51 Mbit/s

95th percentile per-packet one-way delay: 20.470 ms

Loss rate: 0.02%

Run 10: Report of Indigo-1-32 — Data Link



Run 1: Statistics of Vivace-latency

Start at: 2018-03-06 17:11:58

End at: 2018-03-06 17:12:28

Local clock offset: -8.89 ms

Remote clock offset: 2.508 ms

Below is generated by plot.py at 2018-03-07 02:08:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 510.04 Mbit/s

95th percentile per-packet one-way delay: 19.379 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 273.93 Mbit/s

95th percentile per-packet one-way delay: 20.415 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 298.42 Mbit/s

95th percentile per-packet one-way delay: 17.732 ms

Loss rate: 0.01%

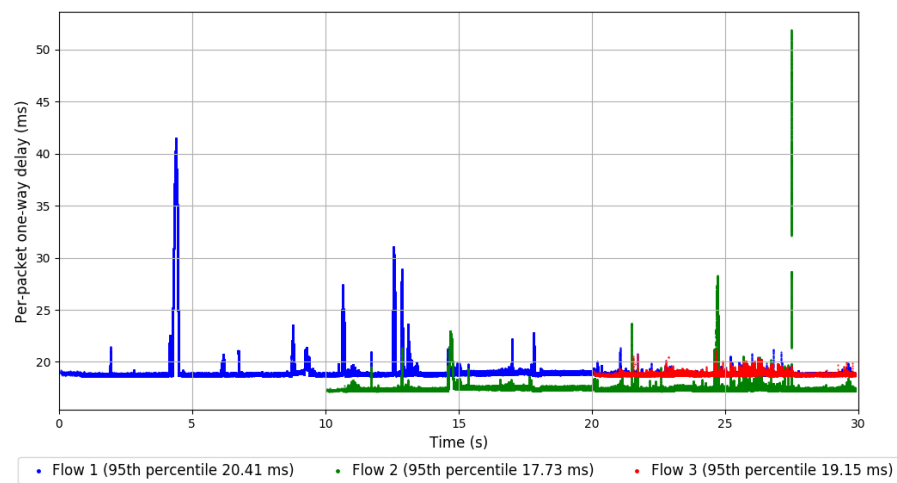
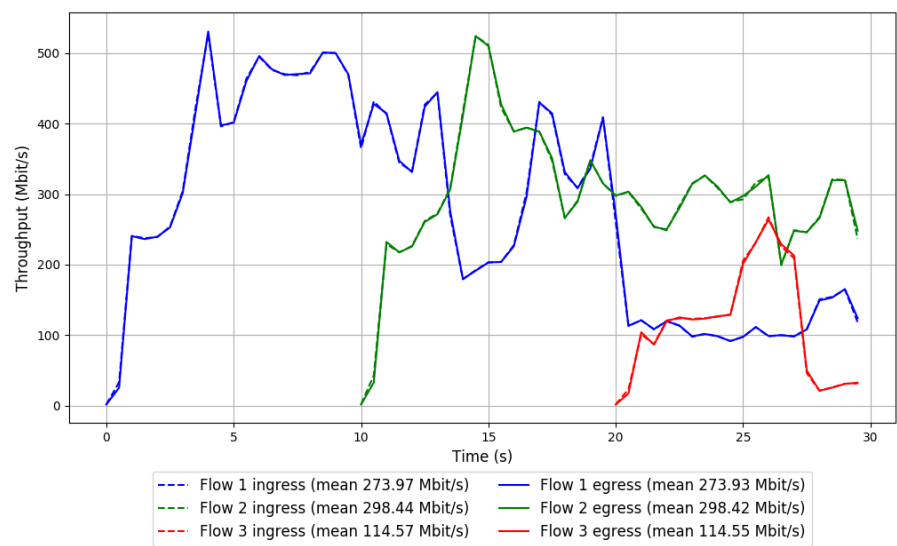
-- Flow 3:

Average throughput: 114.55 Mbit/s

95th percentile per-packet one-way delay: 19.149 ms

Loss rate: 0.02%

Run 1: Report of Vivace-latency — Data Link



Run 2: Statistics of Vivace-latency

Start at: 2018-03-06 17:41:53

End at: 2018-03-06 17:42:23

Local clock offset: -8.217 ms

Remote clock offset: 1.014 ms

Below is generated by plot.py at 2018-03-07 02:10:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 548.64 Mbit/s

95th percentile per-packet one-way delay: 20.466 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 344.72 Mbit/s

95th percentile per-packet one-way delay: 26.594 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 244.42 Mbit/s

95th percentile per-packet one-way delay: 19.296 ms

Loss rate: 0.07%

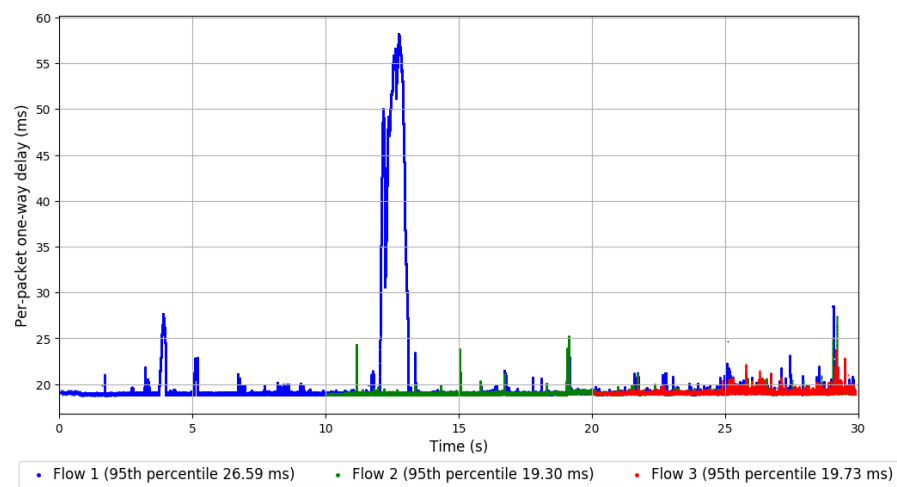
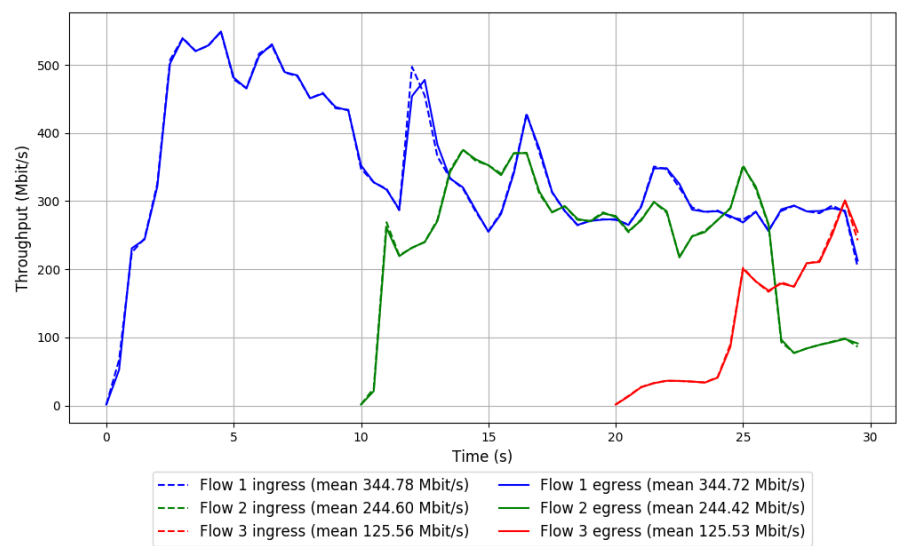
-- Flow 3:

Average throughput: 125.53 Mbit/s

95th percentile per-packet one-way delay: 19.734 ms

Loss rate: 0.03%

Run 2: Report of Vivace-latency — Data Link



Run 3: Statistics of Vivace-latency

Start at: 2018-03-06 18:11:51

End at: 2018-03-06 18:12:21

Local clock offset: -4.311 ms

Remote clock offset: 0.901 ms

Below is generated by plot.py at 2018-03-07 02:10:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 501.10 Mbit/s

95th percentile per-packet one-way delay: 19.508 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 311.73 Mbit/s

95th percentile per-packet one-way delay: 19.573 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 266.87 Mbit/s

95th percentile per-packet one-way delay: 18.067 ms

Loss rate: 0.00%

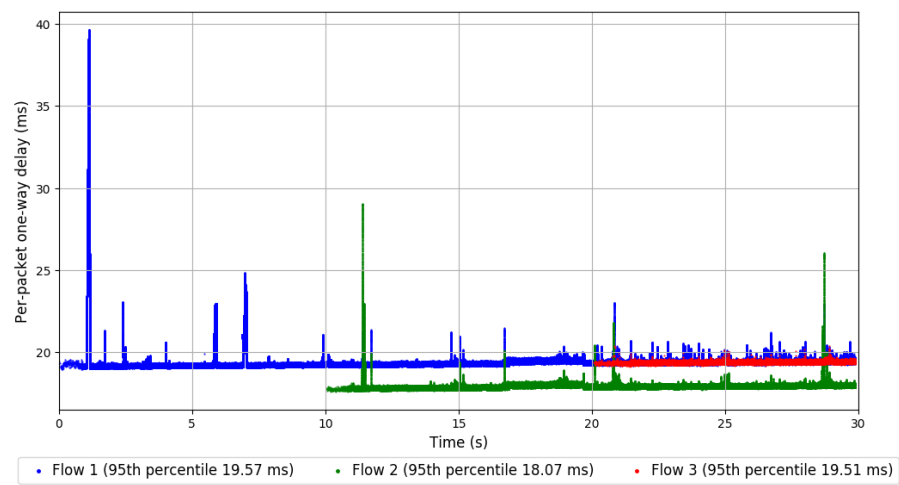
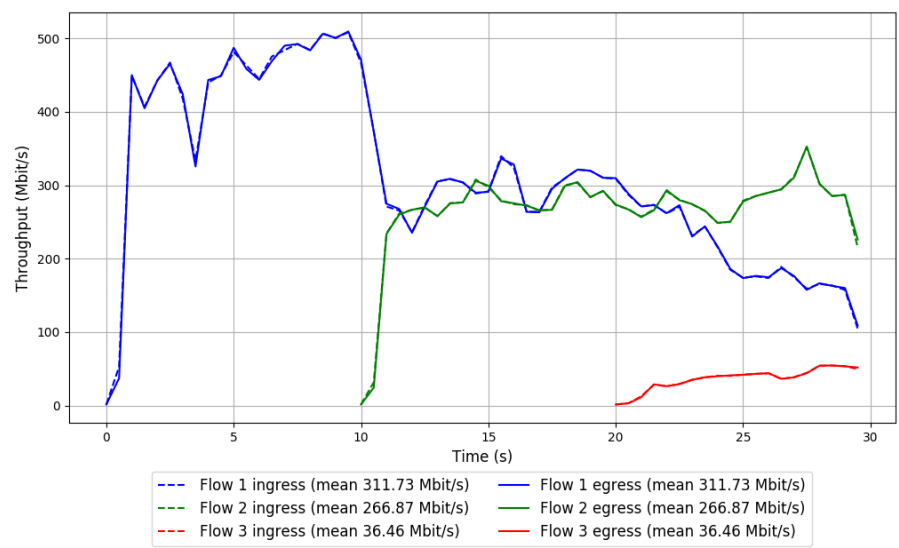
-- Flow 3:

Average throughput: 36.46 Mbit/s

95th percentile per-packet one-way delay: 19.513 ms

Loss rate: 0.00%

Run 3: Report of Vivace-latency — Data Link



Run 4: Statistics of Vivace-latency

Start at: 2018-03-06 18:41:36

End at: 2018-03-06 18:42:06

Local clock offset: 3.291 ms

Remote clock offset: 2.757 ms

Below is generated by plot.py at 2018-03-07 02:12:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 482.00 Mbit/s

95th percentile per-packet one-way delay: 20.564 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 293.72 Mbit/s

95th percentile per-packet one-way delay: 22.104 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 257.27 Mbit/s

95th percentile per-packet one-way delay: 19.610 ms

Loss rate: 0.11%

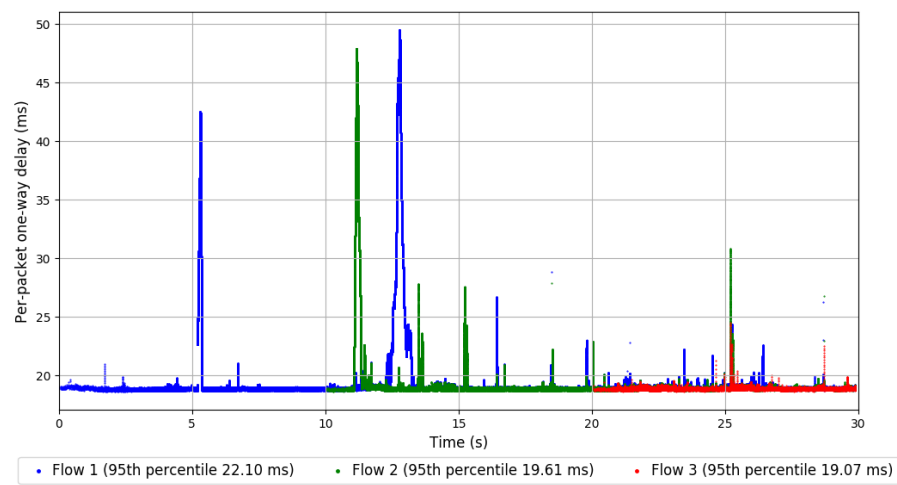
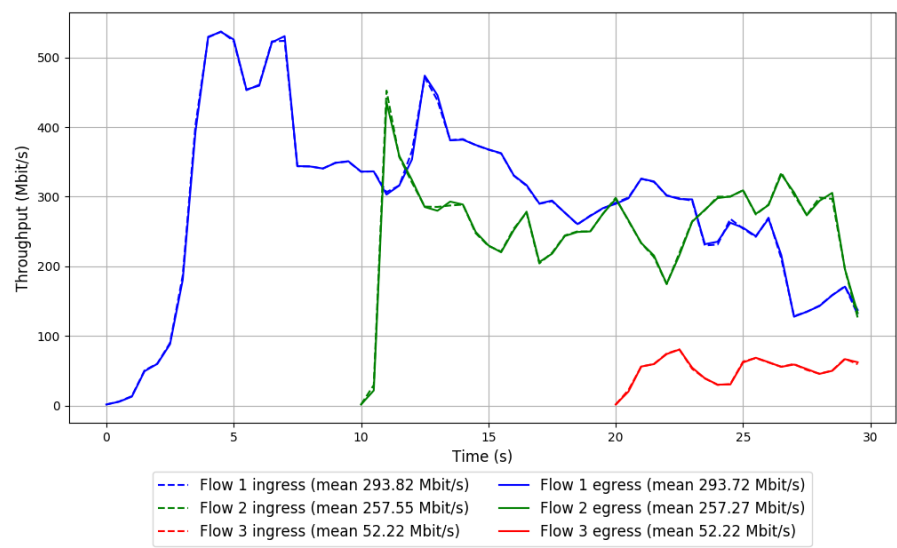
-- Flow 3:

Average throughput: 52.22 Mbit/s

95th percentile per-packet one-way delay: 19.072 ms

Loss rate: 0.00%

Run 4: Report of Vivace-latency — Data Link



Run 5: Statistics of Vivace-latency

Start at: 2018-03-06 19:11:21

End at: 2018-03-06 19:11:52

Local clock offset: -6.016 ms

Remote clock offset: 1.364 ms

Below is generated by plot.py at 2018-03-07 02:12:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 495.20 Mbit/s

95th percentile per-packet one-way delay: 19.054 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 320.27 Mbit/s

95th percentile per-packet one-way delay: 19.062 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 244.26 Mbit/s

95th percentile per-packet one-way delay: 19.049 ms

Loss rate: 0.03%

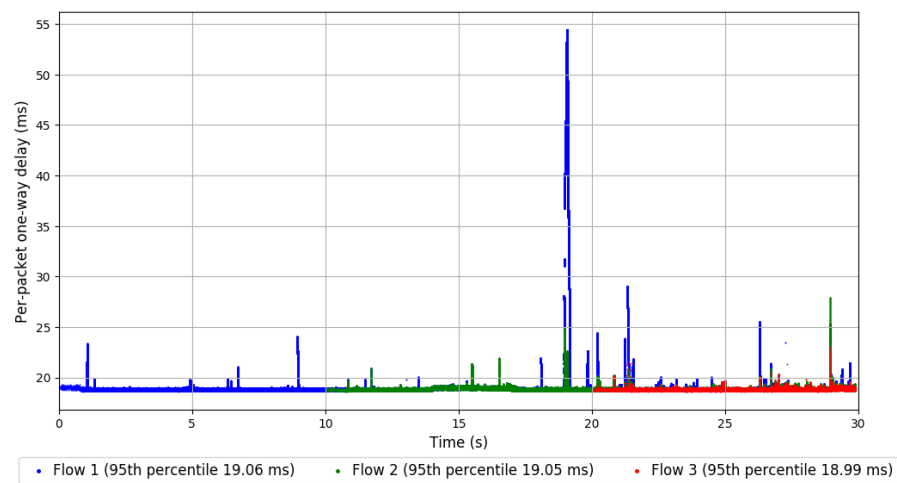
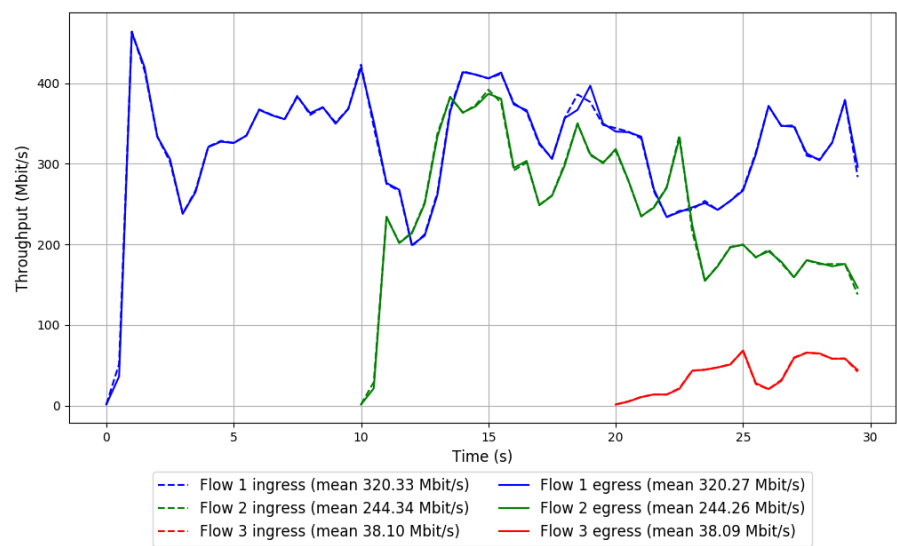
-- Flow 3:

Average throughput: 38.09 Mbit/s

95th percentile per-packet one-way delay: 18.989 ms

Loss rate: 0.02%

Run 5: Report of Vivace-latency — Data Link



Run 6: Statistics of Vivace-latency

Start at: 2018-03-06 19:40:35

End at: 2018-03-06 19:41:05

Local clock offset: -1.762 ms

Remote clock offset: 1.134 ms

Below is generated by plot.py at 2018-03-07 02:13:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 539.39 Mbit/s

95th percentile per-packet one-way delay: 19.870 ms

Loss rate: 0.27%

-- Flow 1:

Average throughput: 301.10 Mbit/s

95th percentile per-packet one-way delay: 19.767 ms

Loss rate: 0.19%

-- Flow 2:

Average throughput: 244.32 Mbit/s

95th percentile per-packet one-way delay: 19.851 ms

Loss rate: 0.32%

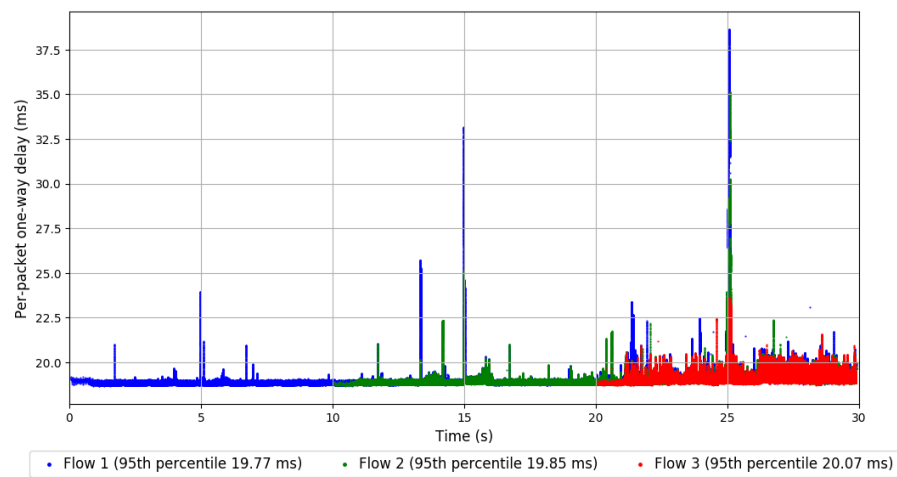
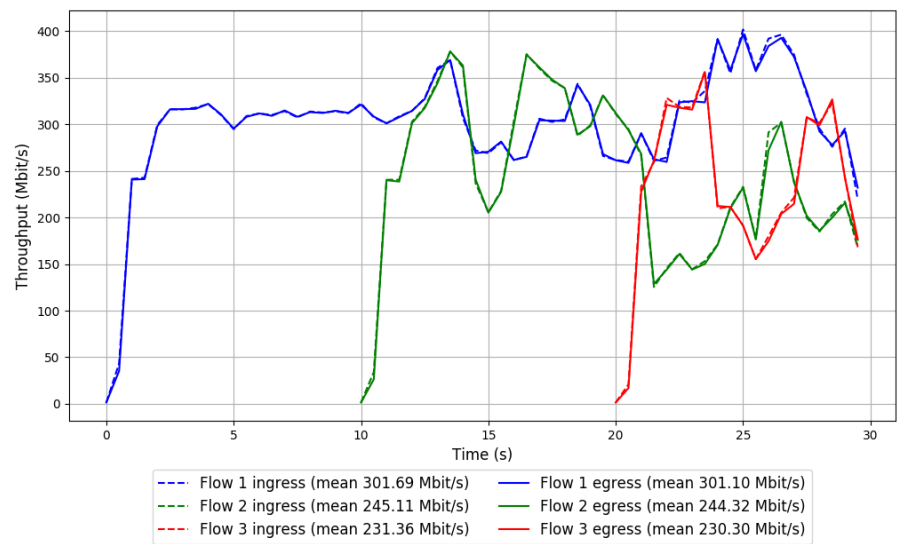
-- Flow 3:

Average throughput: 230.30 Mbit/s

95th percentile per-packet one-way delay: 20.069 ms

Loss rate: 0.45%

Run 6: Report of Vivace-latency — Data Link

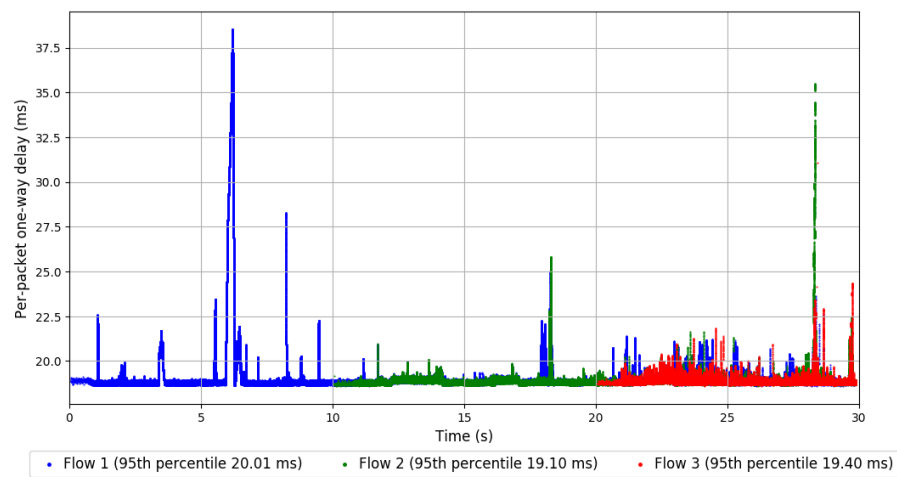
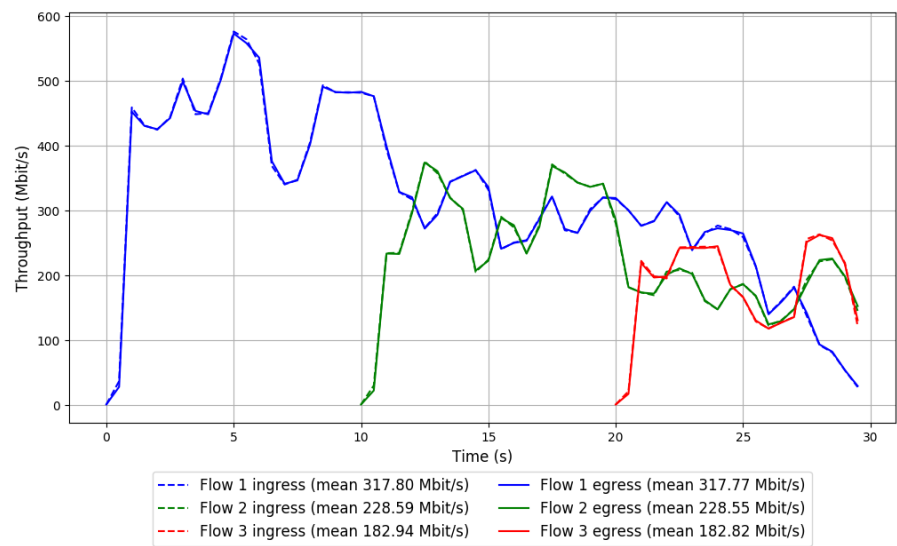


Run 7: Statistics of Vivace-latency

Start at: 2018-03-06 20:10:01
End at: 2018-03-06 20:10:31
Local clock offset: -0.019 ms
Remote clock offset: 0.899 ms

Below is generated by plot.py at 2018-03-07 02:13:37
Datalink statistics
-- Total of 3 flows:
Average throughput: 529.97 Mbit/s
95th percentile per-packet one-way delay: 19.465 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 317.77 Mbit/s
95th percentile per-packet one-way delay: 20.013 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 228.55 Mbit/s
95th percentile per-packet one-way delay: 19.102 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 182.82 Mbit/s
95th percentile per-packet one-way delay: 19.398 ms
Loss rate: 0.06%

Run 7: Report of Vivace-latency — Data Link



Run 8: Statistics of Vivace-latency

Start at: 2018-03-06 20:39:47

End at: 2018-03-06 20:40:17

Local clock offset: -4.678 ms

Remote clock offset: 1.395 ms

Below is generated by plot.py at 2018-03-07 02:16:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 593.62 Mbit/s

95th percentile per-packet one-way delay: 45.966 ms

Loss rate: 0.16%

-- Flow 1:

Average throughput: 350.12 Mbit/s

95th percentile per-packet one-way delay: 64.156 ms

Loss rate: 0.12%

-- Flow 2:

Average throughput: 256.80 Mbit/s

95th percentile per-packet one-way delay: 17.839 ms

Loss rate: 0.29%

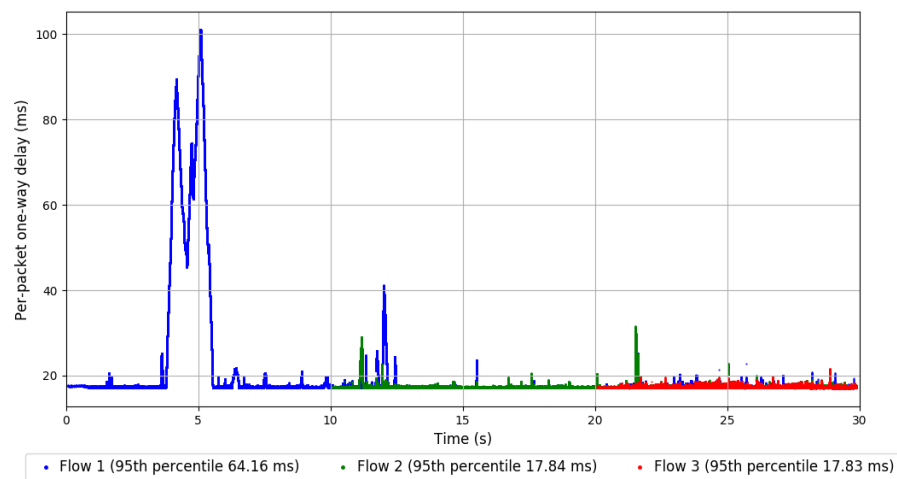
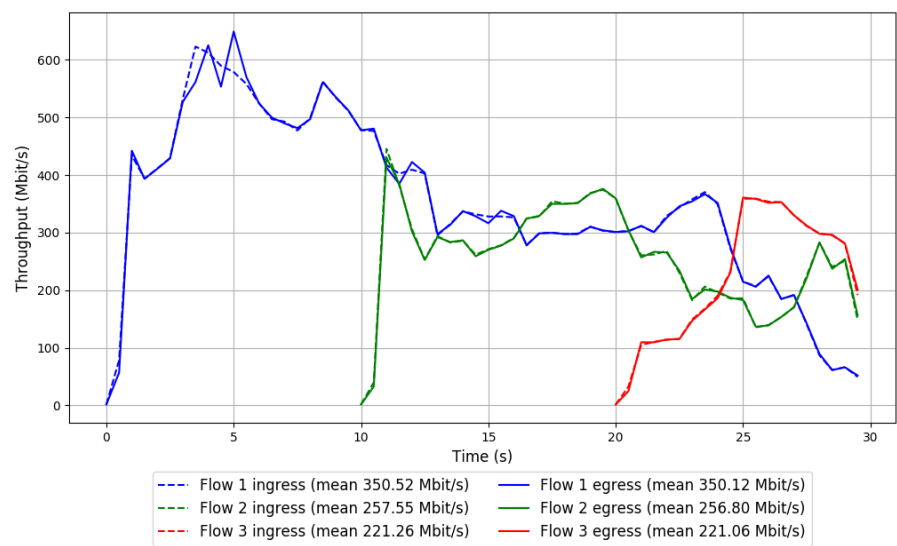
-- Flow 3:

Average throughput: 221.06 Mbit/s

95th percentile per-packet one-way delay: 17.826 ms

Loss rate: 0.09%

Run 8: Report of Vivace-latency — Data Link



Run 9: Statistics of Vivace-latency

Start at: 2018-03-06 21:09:08

End at: 2018-03-06 21:09:38

Local clock offset: -6.73 ms

Remote clock offset: 2.65 ms

Below is generated by plot.py at 2018-03-07 02:16:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 498.71 Mbit/s

95th percentile per-packet one-way delay: 19.048 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 292.49 Mbit/s

95th percentile per-packet one-way delay: 19.045 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 292.27 Mbit/s

95th percentile per-packet one-way delay: 19.056 ms

Loss rate: 0.13%

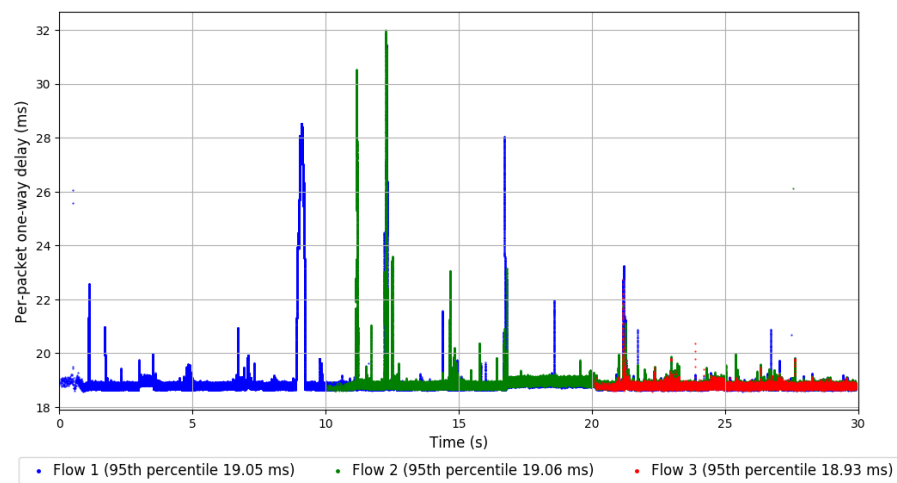
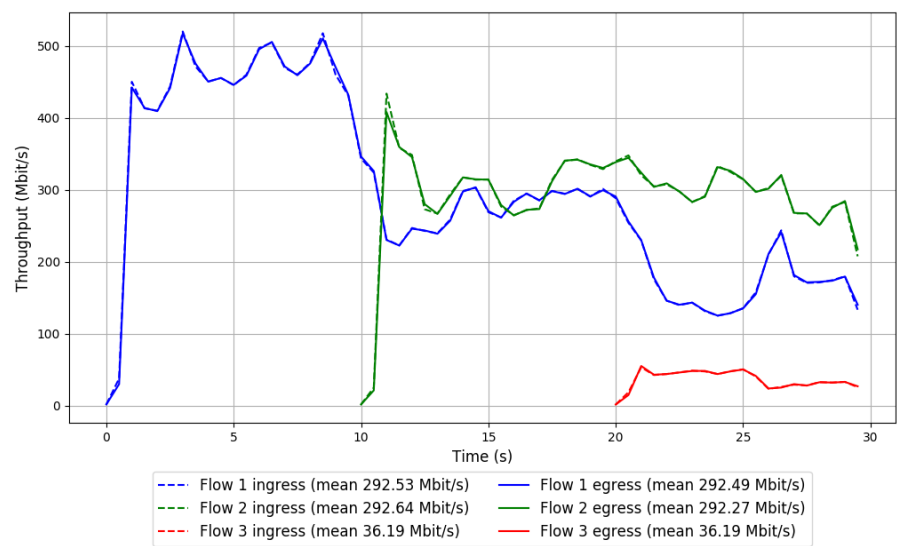
-- Flow 3:

Average throughput: 36.19 Mbit/s

95th percentile per-packet one-way delay: 18.930 ms

Loss rate: 0.00%

Run 9: Report of Vivace-latency — Data Link



Run 10: Statistics of Vivace-latency

Start at: 2018-03-06 21:39:11

End at: 2018-03-06 21:39:41

Local clock offset: -7.035 ms

Remote clock offset: 3.13 ms

Below is generated by plot.py at 2018-03-07 02:17:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 579.19 Mbit/s

95th percentile per-packet one-way delay: 19.969 ms

Loss rate: 0.88%

-- Flow 1:

Average throughput: 327.00 Mbit/s

95th percentile per-packet one-way delay: 18.542 ms

Loss rate: 0.44%

-- Flow 2:

Average throughput: 288.11 Mbit/s

95th percentile per-packet one-way delay: 20.209 ms

Loss rate: 0.93%

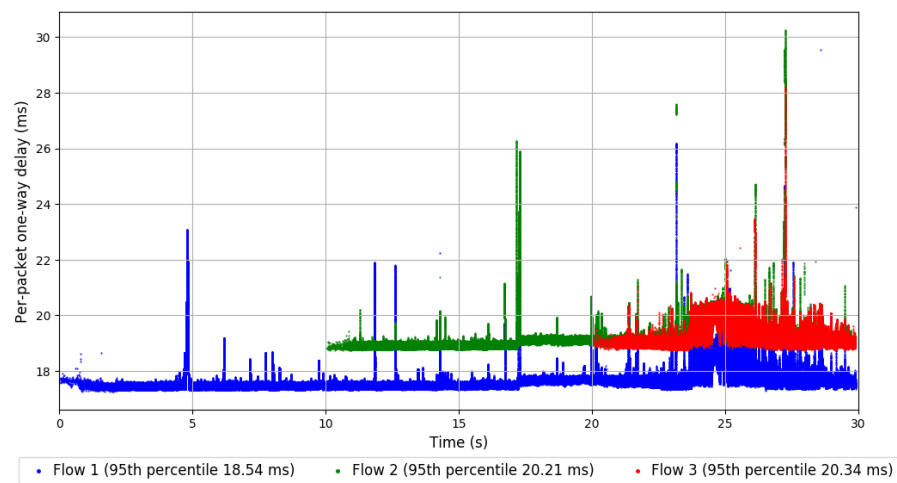
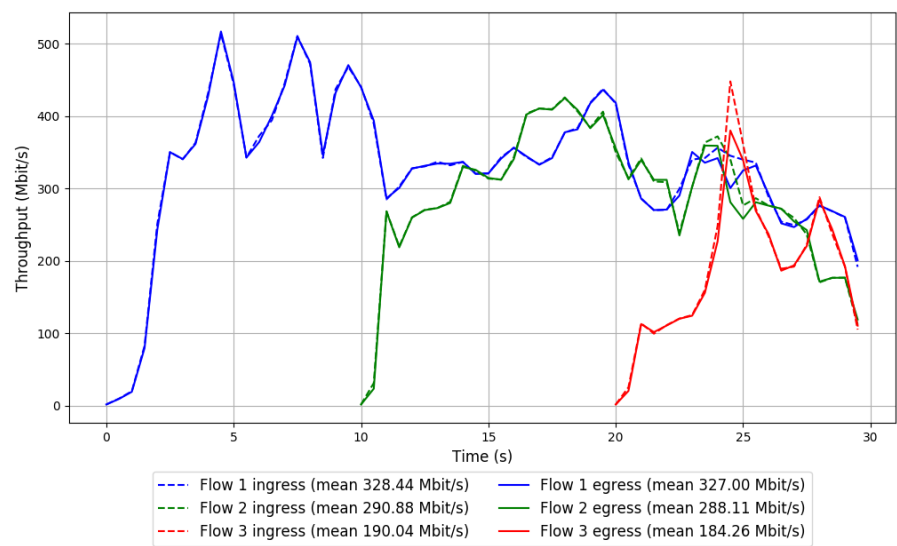
-- Flow 3:

Average throughput: 184.26 Mbit/s

95th percentile per-packet one-way delay: 20.337 ms

Loss rate: 3.08%

Run 10: Report of Vivace-latency — Data Link

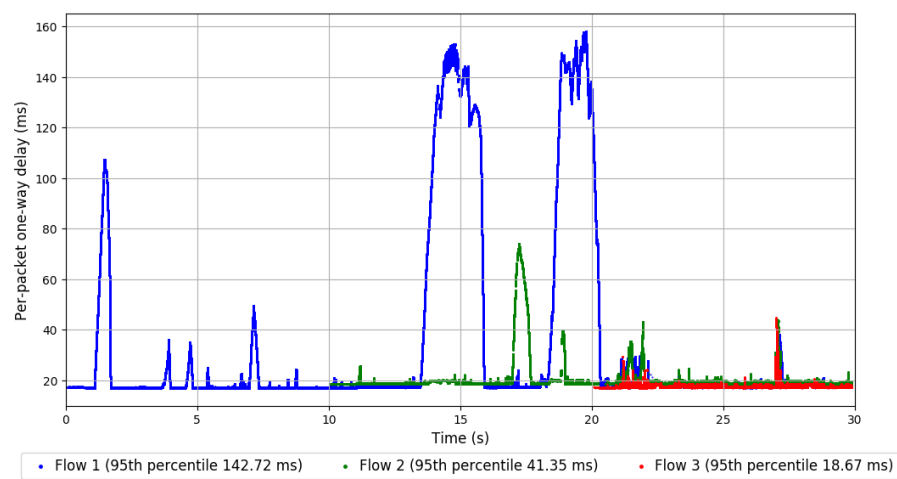
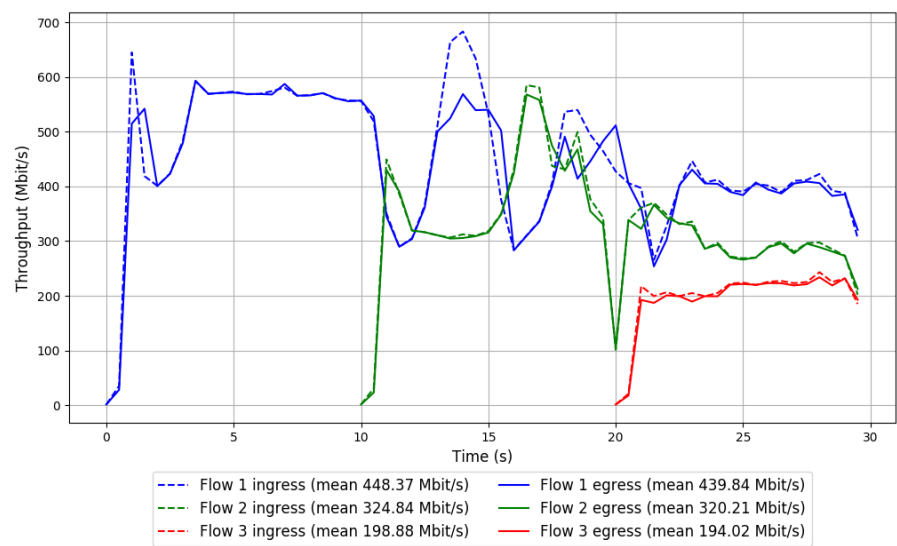


```
Run 1: Statistics of Vivace-loss

Start at: 2018-03-06 16:59:46
End at: 2018-03-06 17:00:16
Local clock offset: -7.852 ms
Remote clock offset: 2.405 ms

# Below is generated by plot.py at 2018-03-07 02:21:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 716.55 Mbit/s
95th percentile per-packet one-way delay: 132.876 ms
Loss rate: 1.81%
-- Flow 1:
Average throughput: 439.84 Mbit/s
95th percentile per-packet one-way delay: 142.716 ms
Loss rate: 1.90%
-- Flow 2:
Average throughput: 320.21 Mbit/s
95th percentile per-packet one-way delay: 41.354 ms
Loss rate: 1.43%
-- Flow 3:
Average throughput: 194.02 Mbit/s
95th percentile per-packet one-way delay: 18.666 ms
Loss rate: 2.44%
```

Run 1: Report of Vivace-loss — Data Link

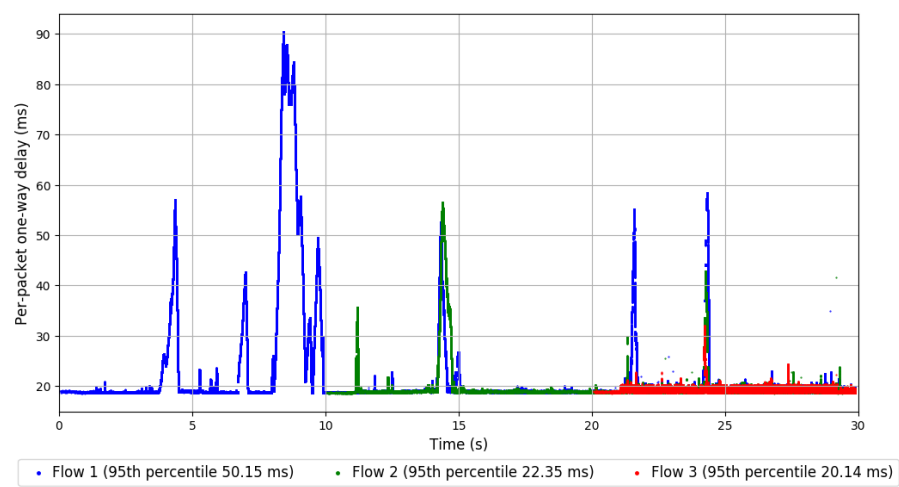
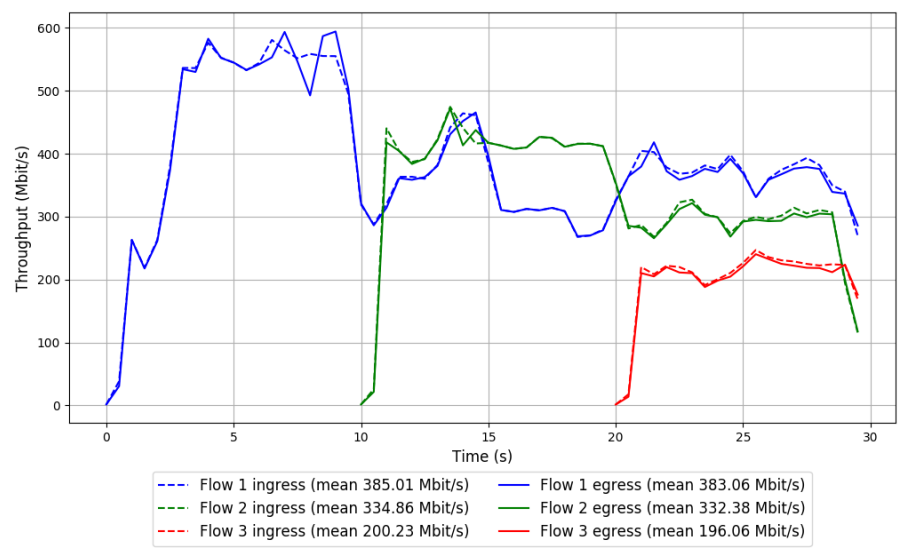


Run 2: Statistics of Vivace-loss

Start at: 2018-03-06 17:29:58
End at: 2018-03-06 17:30:28
Local clock offset: -10.371 ms
Remote clock offset: 1.243 ms

Below is generated by plot.py at 2018-03-07 02:22:05
Datalink statistics
-- Total of 3 flows:
Average throughput: 668.51 Mbit/s
95th percentile per-packet one-way delay: 39.470 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 383.06 Mbit/s
95th percentile per-packet one-way delay: 50.146 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 332.38 Mbit/s
95th percentile per-packet one-way delay: 22.348 ms
Loss rate: 0.75%
-- Flow 3:
Average throughput: 196.06 Mbit/s
95th percentile per-packet one-way delay: 20.140 ms
Loss rate: 2.10%

Run 2: Report of Vivace-loss — Data Link



Run 3: Statistics of Vivace-loss

Start at: 2018-03-06 17:59:44

End at: 2018-03-06 18:00:14

Local clock offset: -6.407 ms

Remote clock offset: 0.936 ms

Below is generated by plot.py at 2018-03-07 02:23:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 686.41 Mbit/s

95th percentile per-packet one-way delay: 22.595 ms

Loss rate: 0.90%

-- Flow 1:

Average throughput: 373.15 Mbit/s

95th percentile per-packet one-way delay: 23.157 ms

Loss rate: 0.79%

-- Flow 2:

Average throughput: 386.31 Mbit/s

95th percentile per-packet one-way delay: 23.076 ms

Loss rate: 0.99%

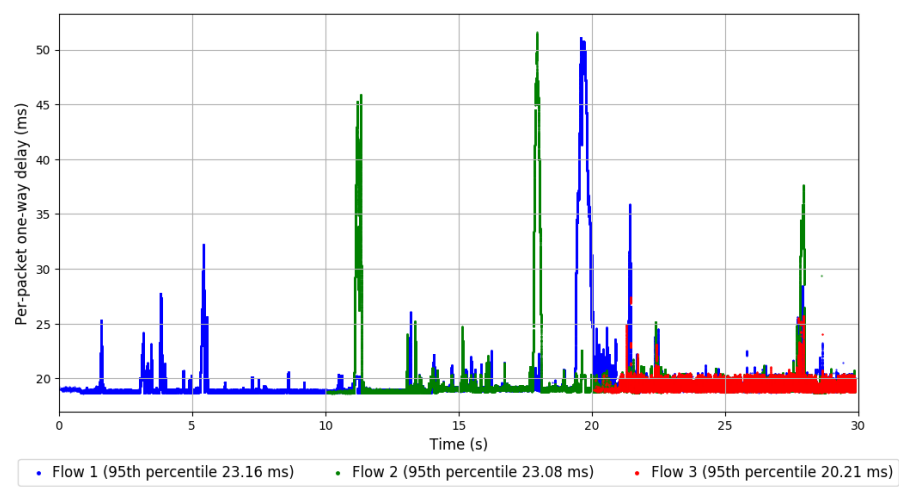
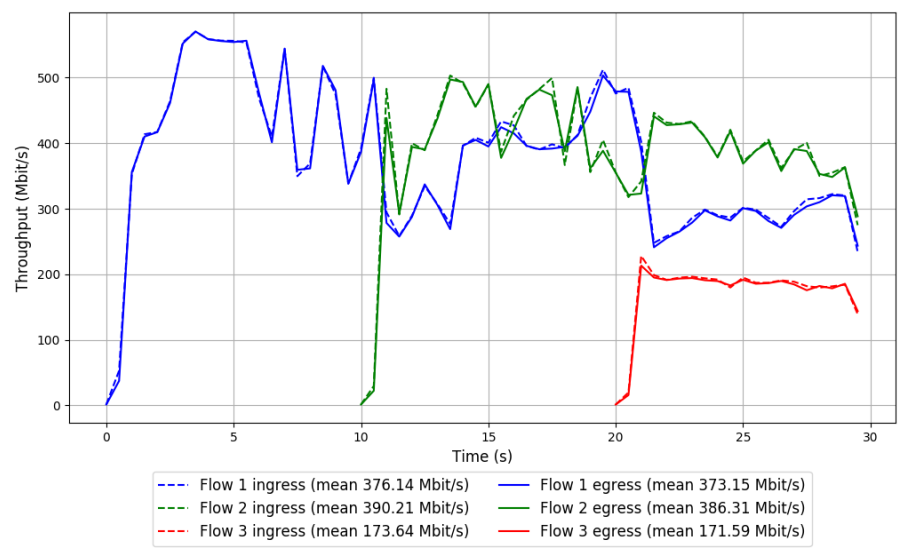
-- Flow 3:

Average throughput: 171.59 Mbit/s

95th percentile per-packet one-way delay: 20.213 ms

Loss rate: 1.17%

Run 3: Report of Vivace-loss — Data Link



Run 4: Statistics of Vivace-loss

Start at: 2018-03-06 18:29:41

End at: 2018-03-06 18:30:11

Local clock offset: 1.432 ms

Remote clock offset: 2.146 ms

Below is generated by plot.py at 2018-03-07 02:23:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 665.47 Mbit/s

95th percentile per-packet one-way delay: 67.088 ms

Loss rate: 0.51%

-- Flow 1:

Average throughput: 364.37 Mbit/s

95th percentile per-packet one-way delay: 47.942 ms

Loss rate: 0.33%

-- Flow 2:

Average throughput: 357.30 Mbit/s

95th percentile per-packet one-way delay: 84.720 ms

Loss rate: 0.69%

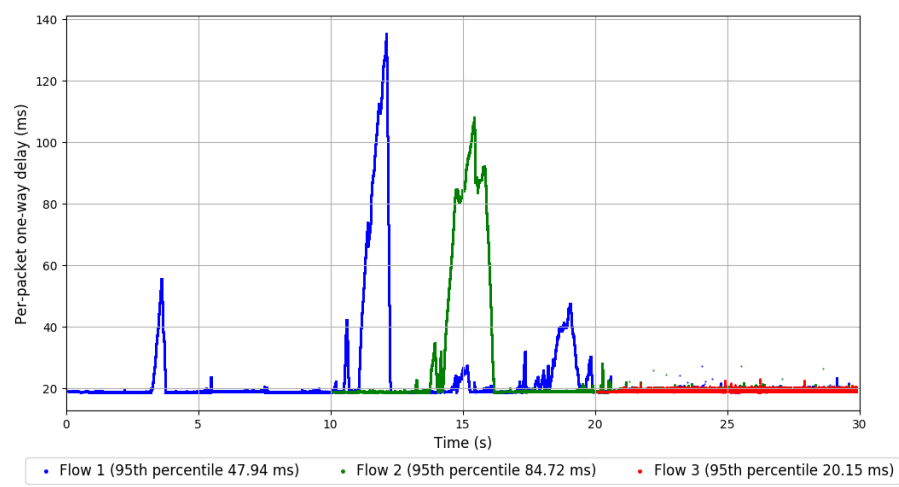
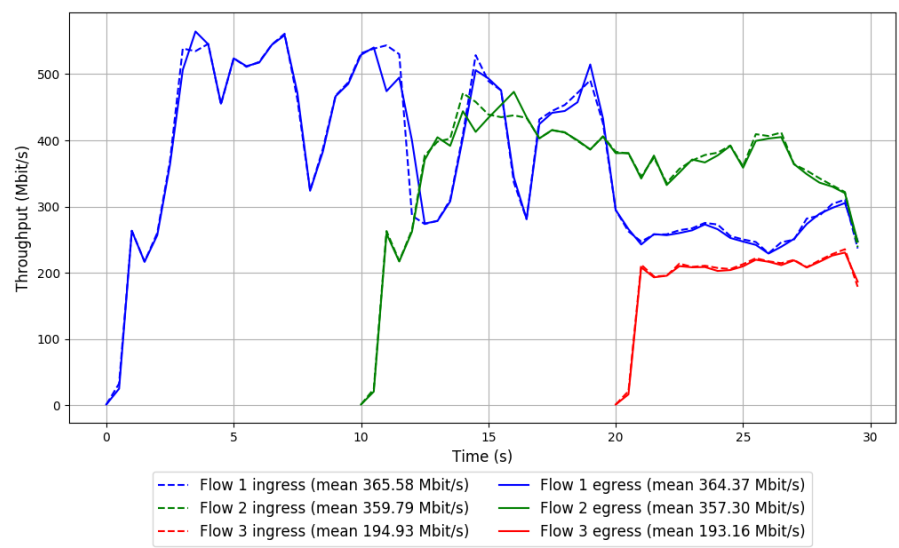
-- Flow 3:

Average throughput: 193.16 Mbit/s

95th percentile per-packet one-way delay: 20.152 ms

Loss rate: 0.91%

Run 4: Report of Vivace-loss — Data Link



Run 5: Statistics of Vivace-loss

Start at: 2018-03-06 18:59:23

End at: 2018-03-06 18:59:53

Local clock offset: -4.68 ms

Remote clock offset: 2.235 ms

Below is generated by plot.py at 2018-03-07 02:23:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 620.49 Mbit/s

95th percentile per-packet one-way delay: 136.804 ms

Loss rate: 1.90%

-- Flow 1:

Average throughput: 302.64 Mbit/s

95th percentile per-packet one-way delay: 134.813 ms

Loss rate: 1.36%

-- Flow 2:

Average throughput: 322.35 Mbit/s

95th percentile per-packet one-way delay: 146.676 ms

Loss rate: 2.84%

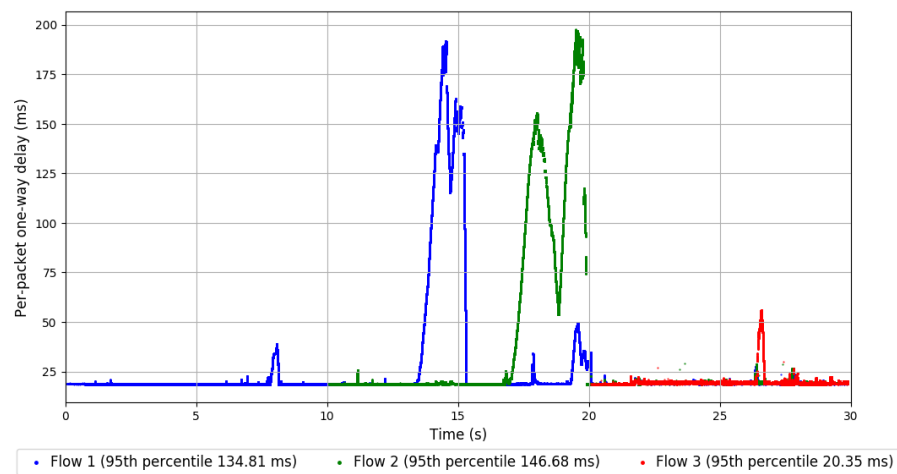
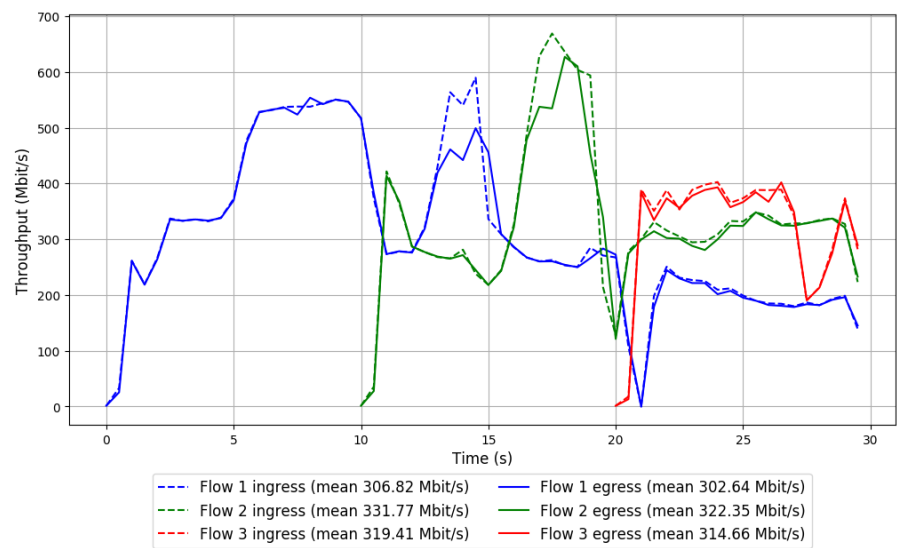
-- Flow 3:

Average throughput: 314.66 Mbit/s

95th percentile per-packet one-way delay: 20.347 ms

Loss rate: 1.49%

Run 5: Report of Vivace-loss — Data Link



Run 6: Statistics of Vivace-loss

Start at: 2018-03-06 19:28:54

End at: 2018-03-06 19:29:24

Local clock offset: -3.096 ms

Remote clock offset: 0.978 ms

Below is generated by plot.py at 2018-03-07 02:25:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 653.84 Mbit/s

95th percentile per-packet one-way delay: 31.201 ms

Loss rate: 0.56%

-- Flow 1:

Average throughput: 359.92 Mbit/s

95th percentile per-packet one-way delay: 41.161 ms

Loss rate: 0.34%

-- Flow 2:

Average throughput: 347.19 Mbit/s

95th percentile per-packet one-way delay: 20.462 ms

Loss rate: 0.54%

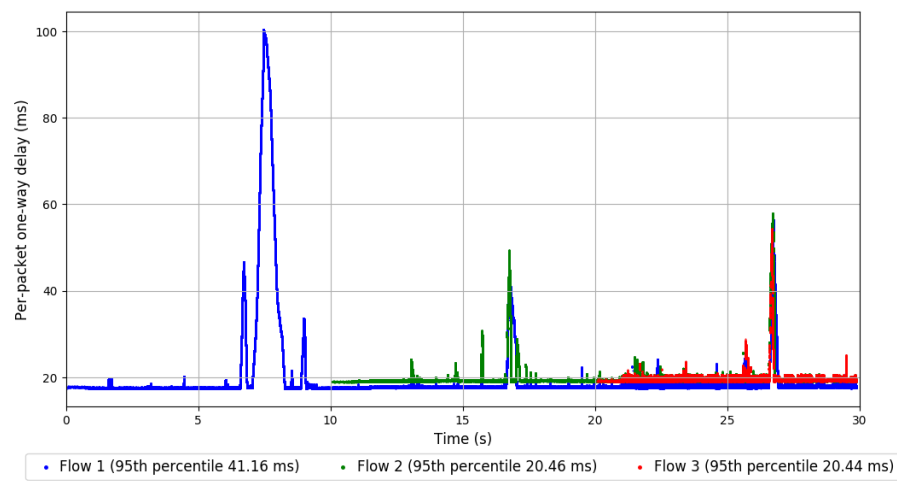
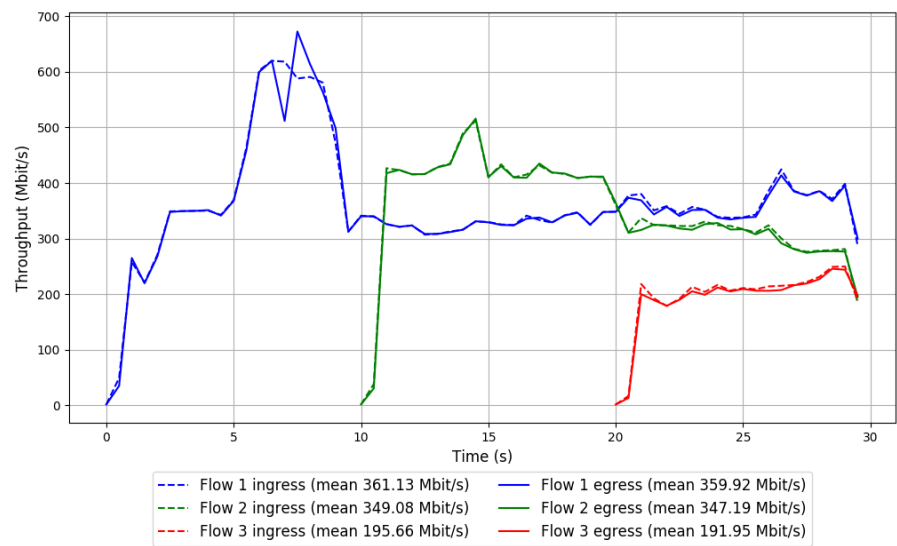
-- Flow 3:

Average throughput: 191.95 Mbit/s

95th percentile per-packet one-way delay: 20.437 ms

Loss rate: 1.90%

Run 6: Report of Vivace-loss — Data Link



Run 7: Statistics of Vivace-loss

Start at: 2018-03-06 19:58:03

End at: 2018-03-06 19:58:33

Local clock offset: -0.667 ms

Remote clock offset: 0.988 ms

Below is generated by plot.py at 2018-03-07 02:25:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 613.63 Mbit/s

95th percentile per-packet one-way delay: 78.083 ms

Loss rate: 1.41%

-- Flow 1:

Average throughput: 341.62 Mbit/s

95th percentile per-packet one-way delay: 103.119 ms

Loss rate: 1.36%

-- Flow 2:

Average throughput: 341.81 Mbit/s

95th percentile per-packet one-way delay: 63.118 ms

Loss rate: 1.19%

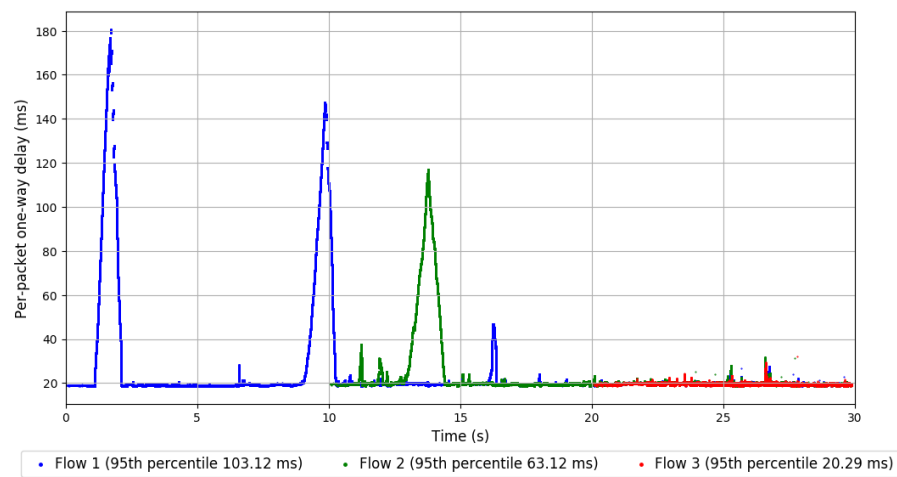
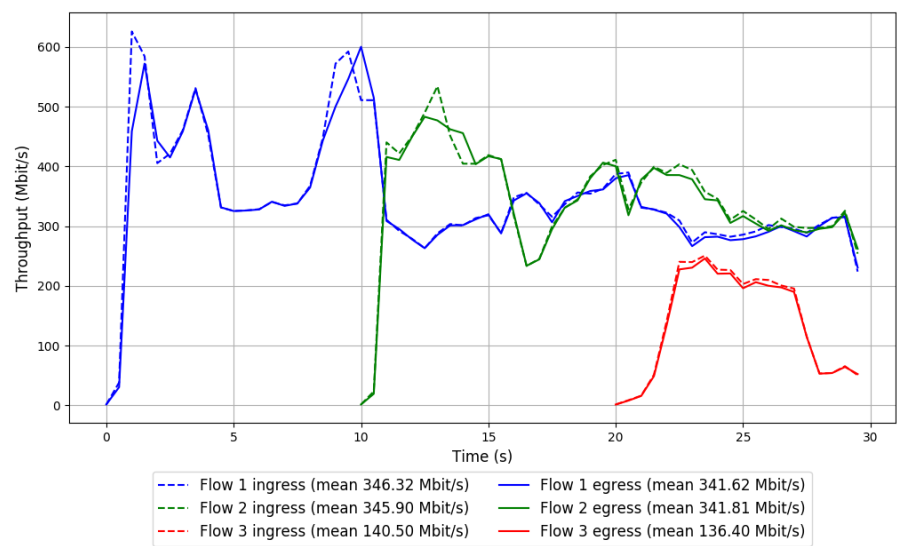
-- Flow 3:

Average throughput: 136.40 Mbit/s

95th percentile per-packet one-way delay: 20.288 ms

Loss rate: 2.92%

Run 7: Report of Vivace-loss — Data Link



Run 8: Statistics of Vivace-loss

Start at: 2018-03-06 20:27:58

End at: 2018-03-06 20:28:28

Local clock offset: -0.581 ms

Remote clock offset: 0.786 ms

Below is generated by plot.py at 2018-03-07 02:27:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 628.40 Mbit/s

95th percentile per-packet one-way delay: 82.934 ms

Loss rate: 1.49%

-- Flow 1:

Average throughput: 366.62 Mbit/s

95th percentile per-packet one-way delay: 113.542 ms

Loss rate: 2.02%

-- Flow 2:

Average throughput: 338.55 Mbit/s

95th percentile per-packet one-way delay: 74.946 ms

Loss rate: 0.58%

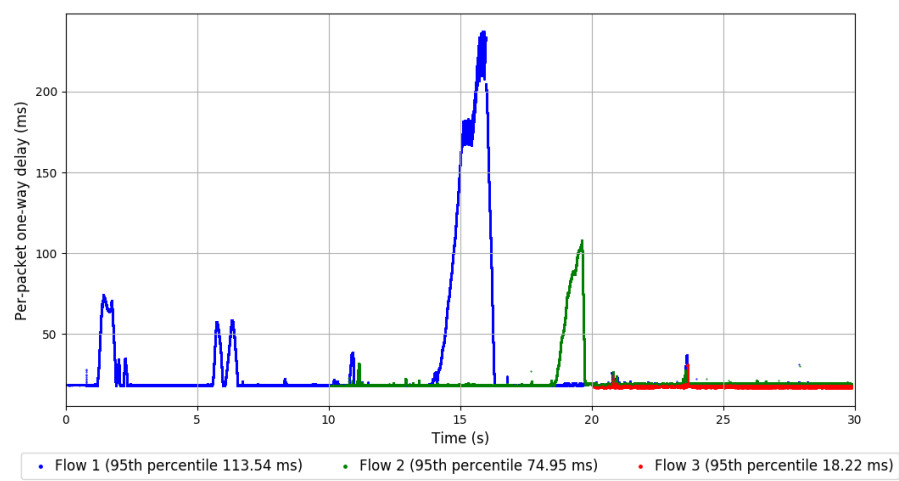
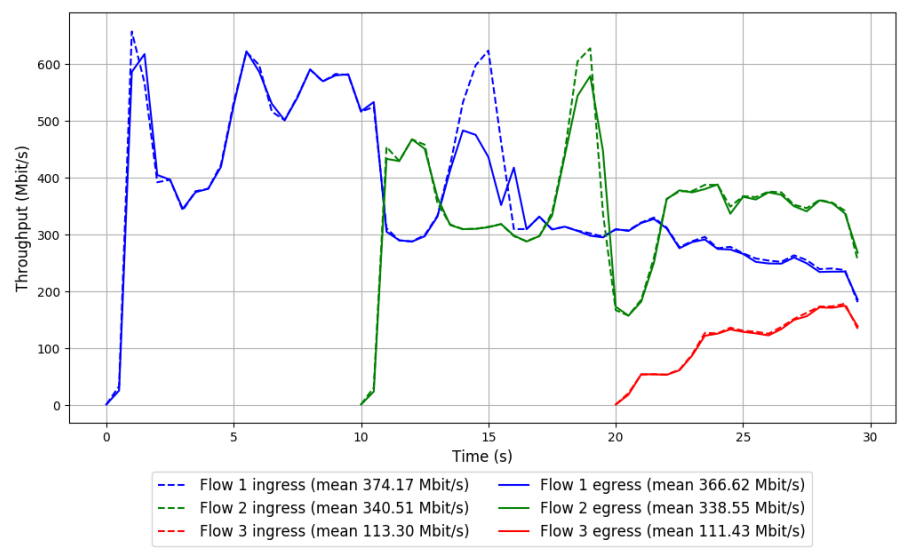
-- Flow 3:

Average throughput: 111.43 Mbit/s

95th percentile per-packet one-way delay: 18.216 ms

Loss rate: 1.66%

Run 8: Report of Vivace-loss — Data Link



Run 9: Statistics of Vivace-loss

Start at: 2018-03-06 20:57:22

End at: 2018-03-06 20:57:52

Local clock offset: -7.241 ms

Remote clock offset: 2.441 ms

Below is generated by plot.py at 2018-03-07 02:32:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 723.37 Mbit/s

95th percentile per-packet one-way delay: 33.669 ms

Loss rate: 0.80%

-- Flow 1:

Average throughput: 427.74 Mbit/s

95th percentile per-packet one-way delay: 52.801 ms

Loss rate: 0.80%

-- Flow 2:

Average throughput: 347.41 Mbit/s

95th percentile per-packet one-way delay: 22.585 ms

Loss rate: 0.77%

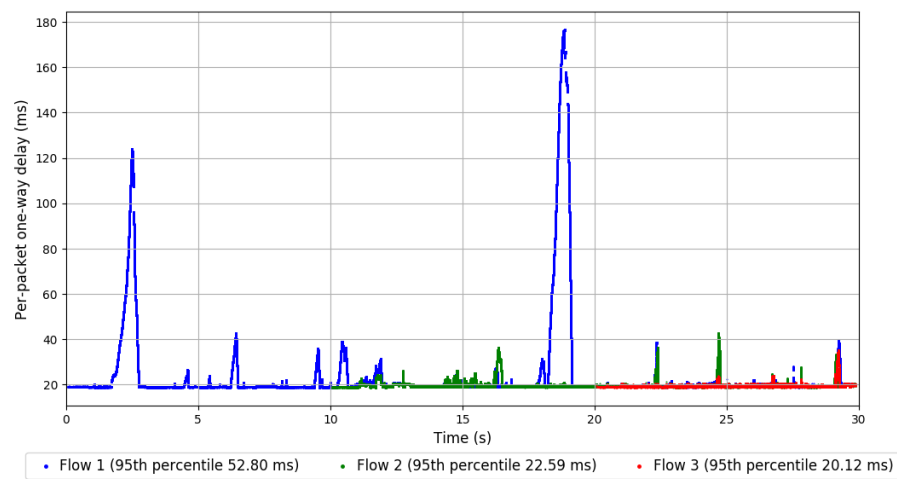
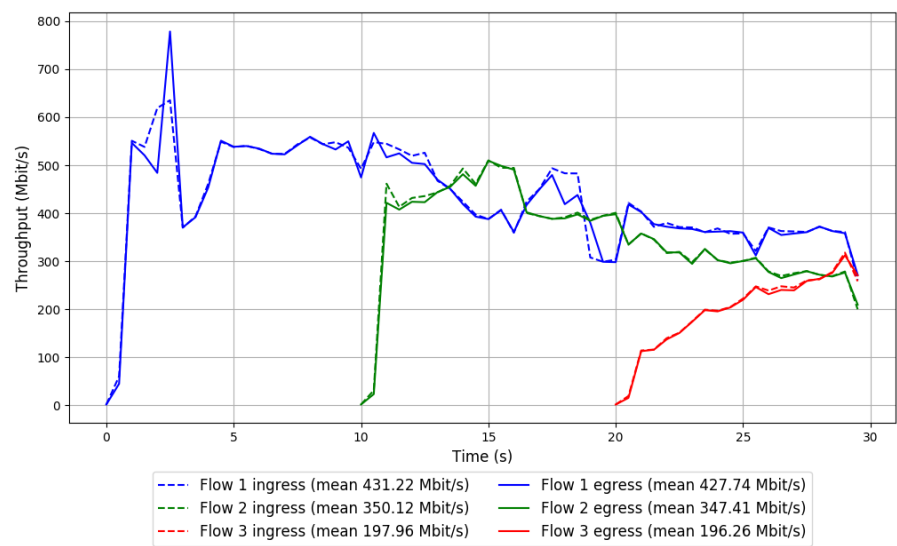
-- Flow 3:

Average throughput: 196.26 Mbit/s

95th percentile per-packet one-way delay: 20.121 ms

Loss rate: 0.86%

Run 9: Report of Vivace-loss — Data Link



Run 10: Statistics of Vivace-loss

Start at: 2018-03-06 21:27:00

End at: 2018-03-06 21:27:30

Local clock offset: -7.436 ms

Remote clock offset: 2.869 ms

Below is generated by plot.py at 2018-03-07 02:32:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 683.51 Mbit/s

95th percentile per-packet one-way delay: 29.797 ms

Loss rate: 0.72%

-- Flow 1:

Average throughput: 382.28 Mbit/s

95th percentile per-packet one-way delay: 33.420 ms

Loss rate: 0.63%

-- Flow 2:

Average throughput: 359.32 Mbit/s

95th percentile per-packet one-way delay: 26.326 ms

Loss rate: 0.66%

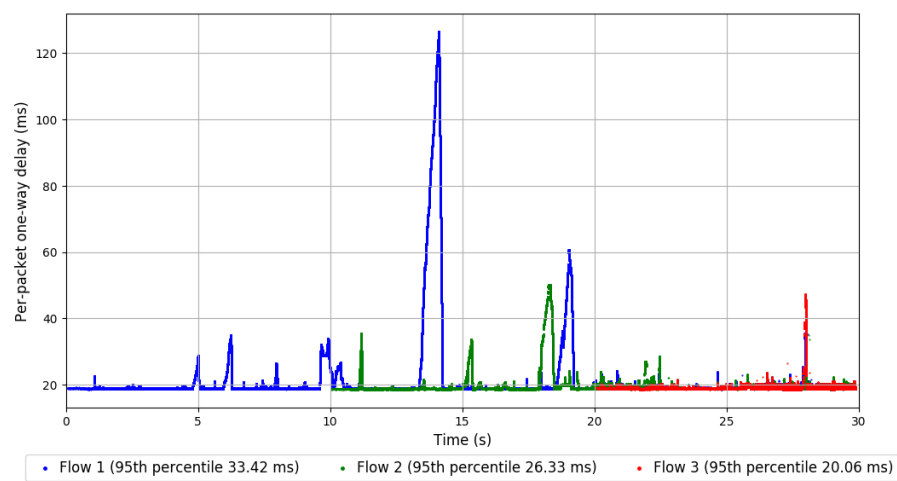
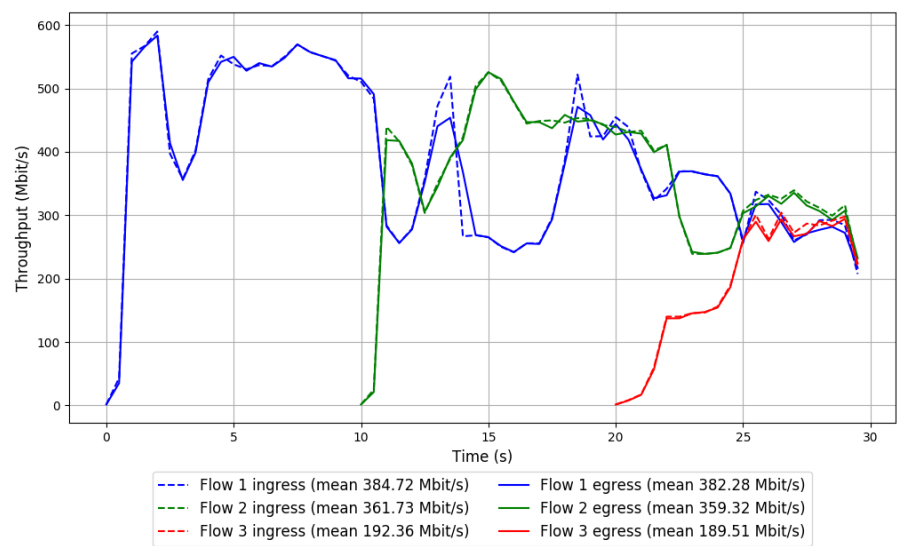
-- Flow 3:

Average throughput: 189.51 Mbit/s

95th percentile per-packet one-way delay: 20.064 ms

Loss rate: 1.49%

Run 10: Report of Vivace-loss — Data Link



Run 1: Statistics of Vivace-LTE

Start at: 2018-03-06 16:48:29

End at: 2018-03-06 16:48:59

Local clock offset: -6.736 ms

Remote clock offset: 2.216 ms

Below is generated by plot.py at 2018-03-07 02:32:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 547.20 Mbit/s

95th percentile per-packet one-way delay: 19.963 ms

Loss rate: 0.32%

-- Flow 1:

Average throughput: 314.24 Mbit/s

95th percentile per-packet one-way delay: 19.946 ms

Loss rate: 0.31%

-- Flow 2:

Average throughput: 333.53 Mbit/s

95th percentile per-packet one-way delay: 19.992 ms

Loss rate: 0.32%

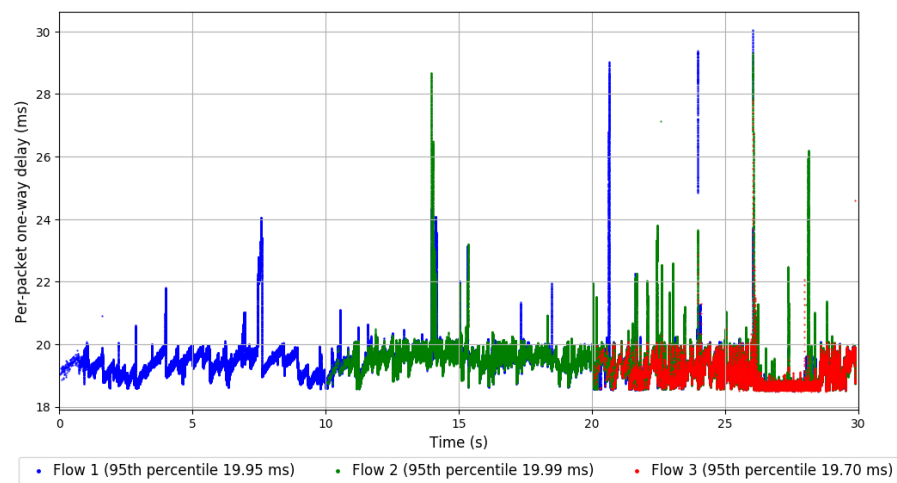
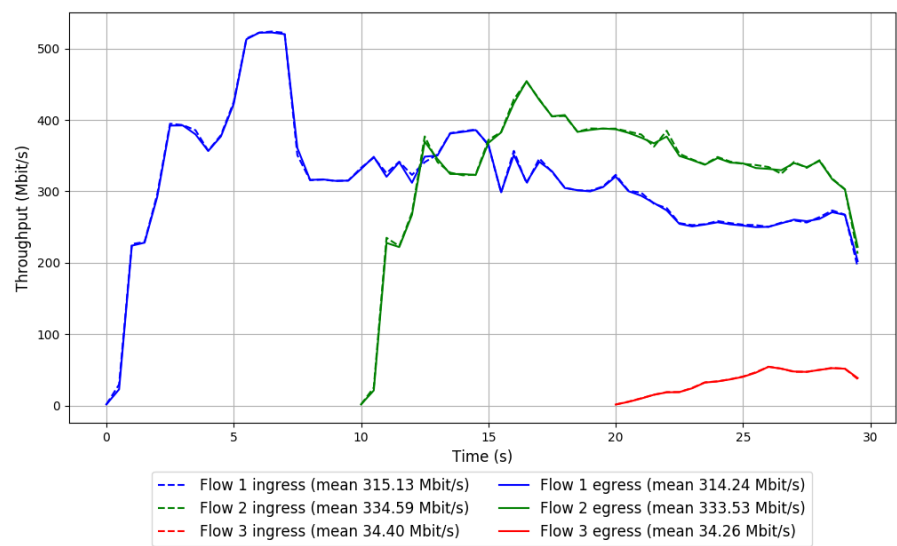
-- Flow 3:

Average throughput: 34.26 Mbit/s

95th percentile per-packet one-way delay: 19.699 ms

Loss rate: 0.35%

Run 1: Report of Vivace-LTE — Data Link



Run 2: Statistics of Vivace-LTE

Start at: 2018-03-06 17:18:28

End at: 2018-03-06 17:18:58

Local clock offset: -9.474 ms

Remote clock offset: 1.667 ms

Below is generated by plot.py at 2018-03-07 02:32:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 603.88 Mbit/s

95th percentile per-packet one-way delay: 23.914 ms

Loss rate: 0.40%

-- Flow 1:

Average throughput: 360.94 Mbit/s

95th percentile per-packet one-way delay: 27.963 ms

Loss rate: 0.32%

-- Flow 2:

Average throughput: 334.48 Mbit/s

95th percentile per-packet one-way delay: 19.974 ms

Loss rate: 0.50%

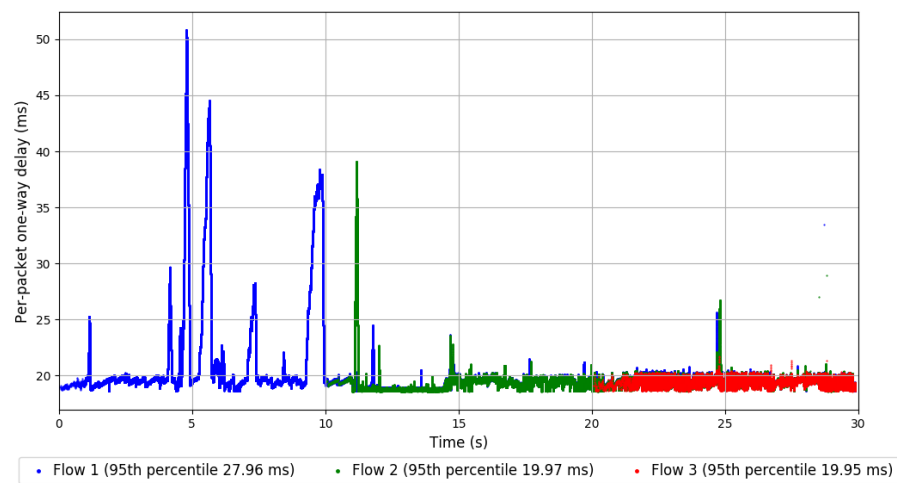
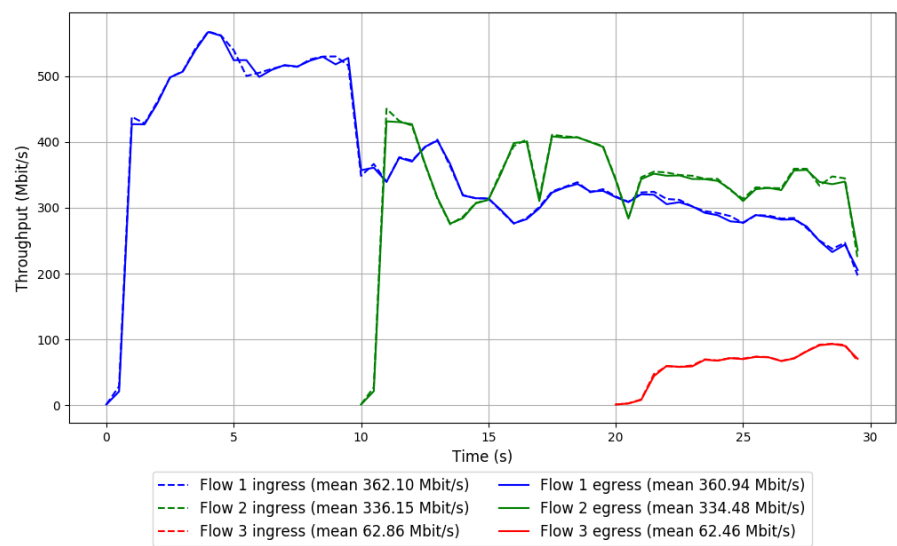
-- Flow 3:

Average throughput: 62.46 Mbit/s

95th percentile per-packet one-way delay: 19.946 ms

Loss rate: 0.67%

Run 2: Report of Vivace-LTE — Data Link



Run 3: Statistics of Vivace-LTE

Start at: 2018-03-06 17:48:23

End at: 2018-03-06 17:48:53

Local clock offset: -7.143 ms

Remote clock offset: 0.895 ms

Below is generated by plot.py at 2018-03-07 02:33:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 592.74 Mbit/s

95th percentile per-packet one-way delay: 20.254 ms

Loss rate: 0.37%

-- Flow 1:

Average throughput: 331.73 Mbit/s

95th percentile per-packet one-way delay: 20.282 ms

Loss rate: 0.28%

-- Flow 2:

Average throughput: 367.09 Mbit/s

95th percentile per-packet one-way delay: 20.246 ms

Loss rate: 0.48%

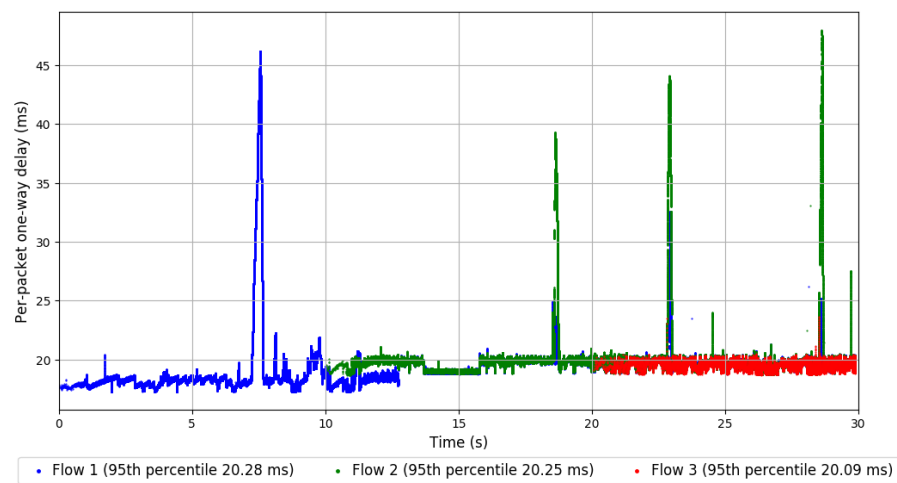
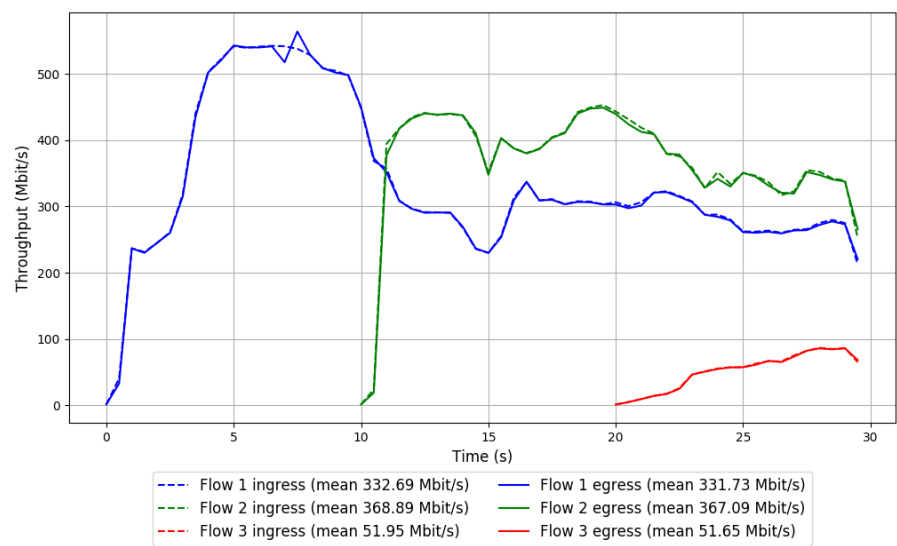
-- Flow 3:

Average throughput: 51.65 Mbit/s

95th percentile per-packet one-way delay: 20.090 ms

Loss rate: 0.56%

Run 3: Report of Vivace-LTE — Data Link



Run 4: Statistics of Vivace-LTE

Start at: 2018-03-06 18:18:19

End at: 2018-03-06 18:18:49

Local clock offset: -1.478 ms

Remote clock offset: 0.792 ms

Below is generated by plot.py at 2018-03-07 02:34:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 580.89 Mbit/s

95th percentile per-packet one-way delay: 20.580 ms

Loss rate: 0.30%

-- Flow 1:

Average throughput: 361.47 Mbit/s

95th percentile per-packet one-way delay: 23.734 ms

Loss rate: 0.25%

-- Flow 2:

Average throughput: 298.30 Mbit/s

95th percentile per-packet one-way delay: 18.990 ms

Loss rate: 0.38%

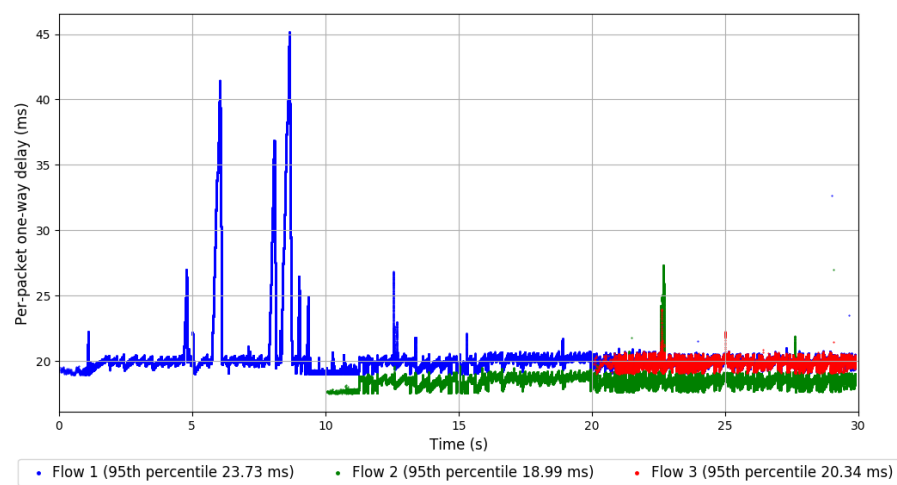
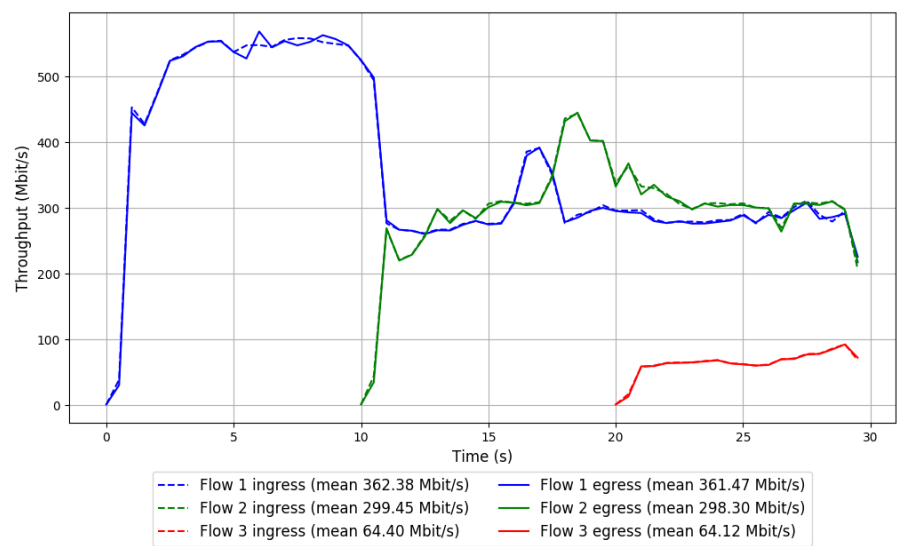
-- Flow 3:

Average throughput: 64.12 Mbit/s

95th percentile per-packet one-way delay: 20.340 ms

Loss rate: 0.43%

Run 4: Report of Vivace-LTE — Data Link



Run 5: Statistics of Vivace-LTE

Start at: 2018-03-06 18:48:05

End at: 2018-03-06 18:48:35

Local clock offset: -0.542 ms

Remote clock offset: 2.971 ms

Below is generated by plot.py at 2018-03-07 02:34:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 590.55 Mbit/s

95th percentile per-packet one-way delay: 19.914 ms

Loss rate: 0.40%

-- Flow 1:

Average throughput: 358.24 Mbit/s

95th percentile per-packet one-way delay: 20.900 ms

Loss rate: 0.28%

-- Flow 2:

Average throughput: 289.01 Mbit/s

95th percentile per-packet one-way delay: 19.461 ms

Loss rate: 0.47%

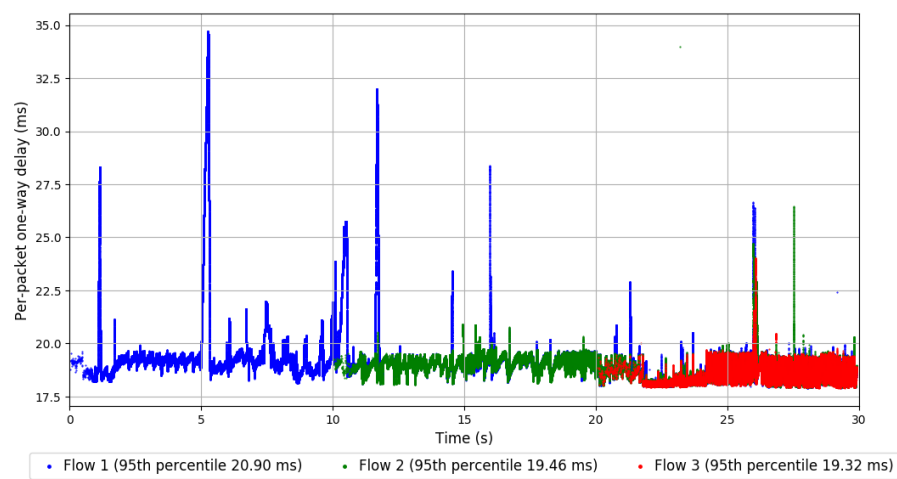
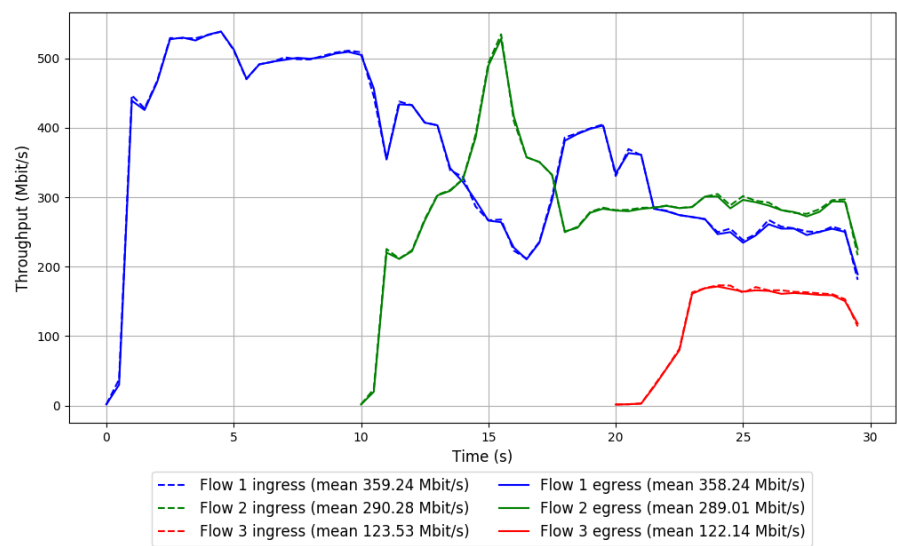
-- Flow 3:

Average throughput: 122.14 Mbit/s

95th percentile per-packet one-way delay: 19.323 ms

Loss rate: 1.14%

Run 5: Report of Vivace-LTE — Data Link



Run 6: Statistics of Vivace-LTE

Start at: 2018-03-06 19:17:51

End at: 2018-03-06 19:18:21

Local clock offset: -6.032 ms

Remote clock offset: 1.164 ms

Below is generated by plot.py at 2018-03-07 02:35:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 641.70 Mbit/s

95th percentile per-packet one-way delay: 20.851 ms

Loss rate: 0.79%

-- Flow 1:

Average throughput: 352.56 Mbit/s

95th percentile per-packet one-way delay: 22.180 ms

Loss rate: 0.56%

-- Flow 2:

Average throughput: 368.32 Mbit/s

95th percentile per-packet one-way delay: 20.500 ms

Loss rate: 0.88%

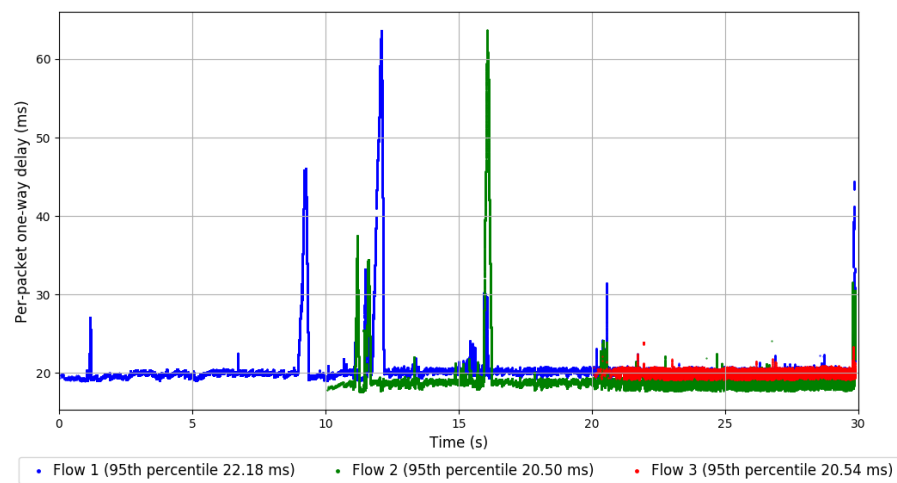
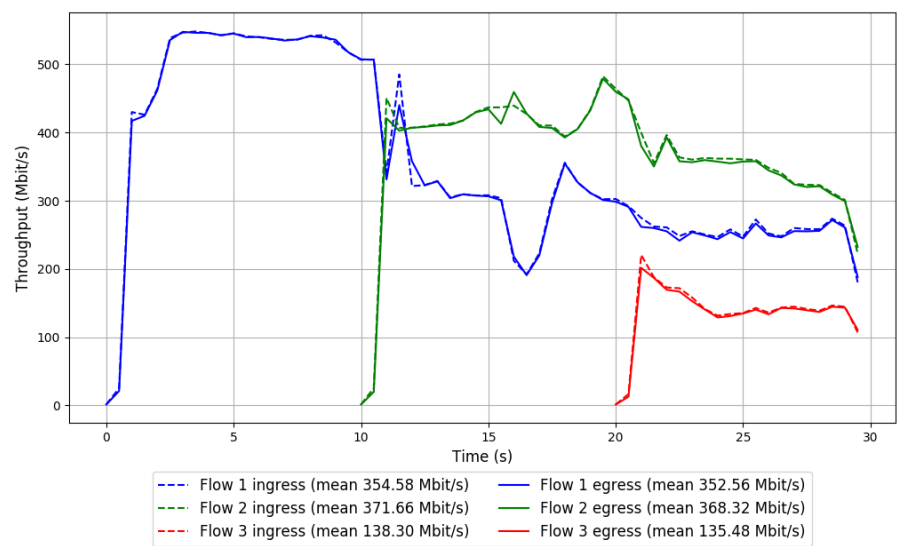
-- Flow 3:

Average throughput: 135.48 Mbit/s

95th percentile per-packet one-way delay: 20.543 ms

Loss rate: 2.04%

Run 6: Report of Vivace-LTE — Data Link



Run 7: Statistics of Vivace-LTE

Start at: 2018-03-06 19:47:02

End at: 2018-03-06 19:47:32

Local clock offset: -1.391 ms

Remote clock offset: 1.035 ms

Below is generated by plot.py at 2018-03-07 02:38:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 655.26 Mbit/s

95th percentile per-packet one-way delay: 22.627 ms

Loss rate: 0.13%

-- Flow 1:

Average throughput: 416.17 Mbit/s

95th percentile per-packet one-way delay: 27.730 ms

Loss rate: 0.11%

-- Flow 2:

Average throughput: 337.08 Mbit/s

95th percentile per-packet one-way delay: 19.395 ms

Loss rate: 0.17%

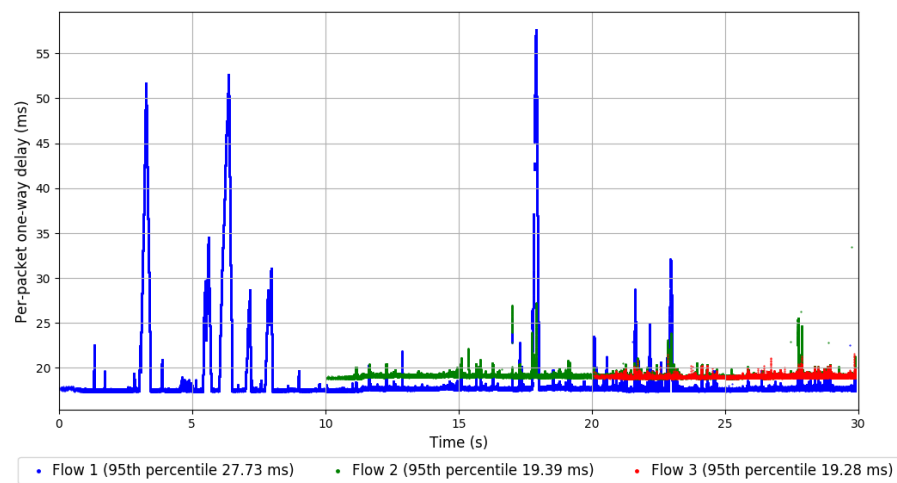
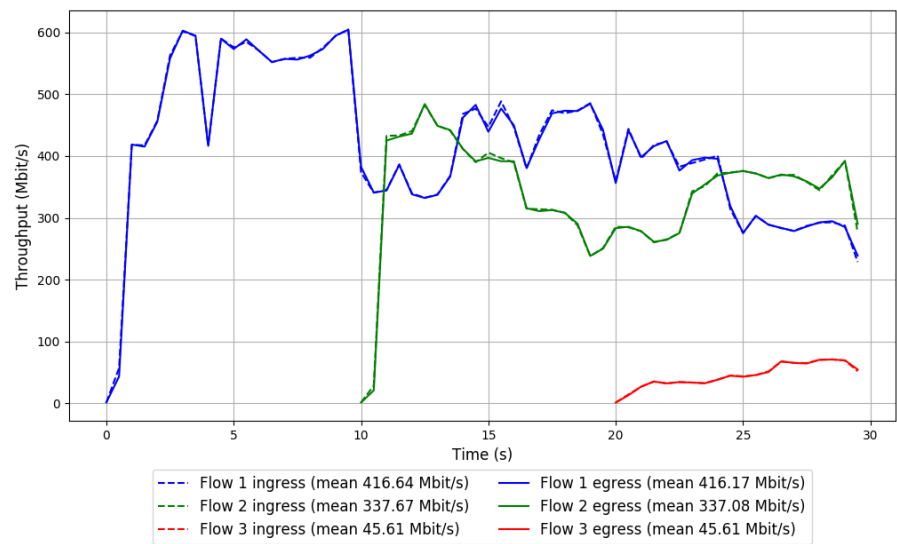
-- Flow 3:

Average throughput: 45.61 Mbit/s

95th percentile per-packet one-way delay: 19.276 ms

Loss rate: 0.02%

Run 7: Report of Vivace-LTE — Data Link



Run 8: Statistics of Vivace-LTE

Start at: 2018-03-06 20:16:37

End at: 2018-03-06 20:17:07

Local clock offset: 0.353 ms

Remote clock offset: 0.86 ms

Below is generated by plot.py at 2018-03-07 02:38:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 587.29 Mbit/s

95th percentile per-packet one-way delay: 19.890 ms

Loss rate: 0.46%

-- Flow 1:

Average throughput: 335.30 Mbit/s

95th percentile per-packet one-way delay: 19.953 ms

Loss rate: 0.24%

-- Flow 2:

Average throughput: 293.62 Mbit/s

95th percentile per-packet one-way delay: 18.664 ms

Loss rate: 0.67%

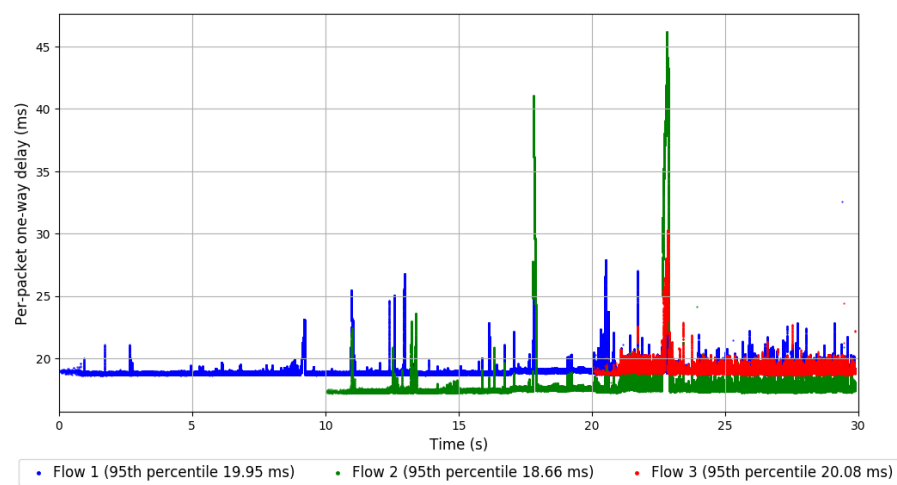
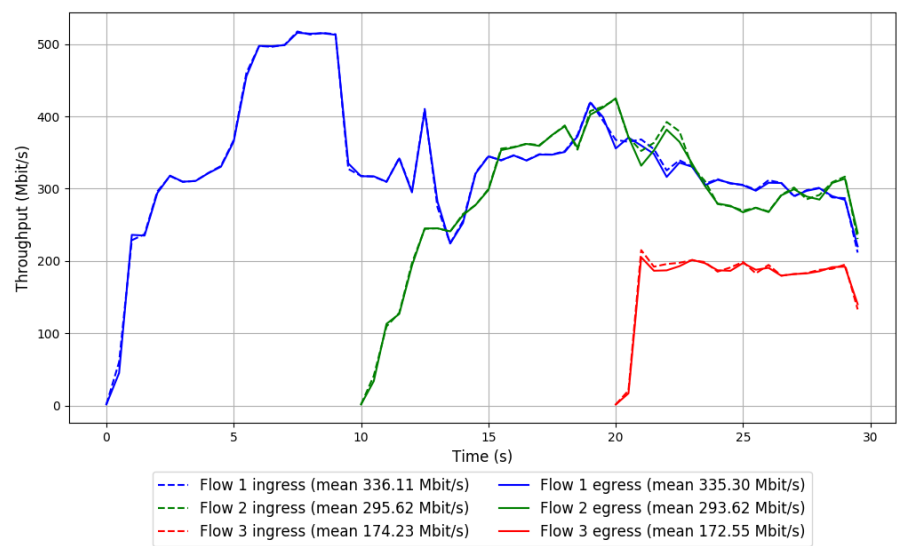
-- Flow 3:

Average throughput: 172.55 Mbit/s

95th percentile per-packet one-way delay: 20.079 ms

Loss rate: 0.97%

Run 8: Report of Vivace-LTE — Data Link



Run 9: Statistics of Vivace-LTE

Start at: 2018-03-06 20:46:17

End at: 2018-03-06 20:46:47

Local clock offset: -5.805 ms

Remote clock offset: 1.913 ms

Below is generated by plot.py at 2018-03-07 02:38:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 596.56 Mbit/s

95th percentile per-packet one-way delay: 19.962 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 384.73 Mbit/s

95th percentile per-packet one-way delay: 21.249 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 291.77 Mbit/s

95th percentile per-packet one-way delay: 18.941 ms

Loss rate: 0.06%

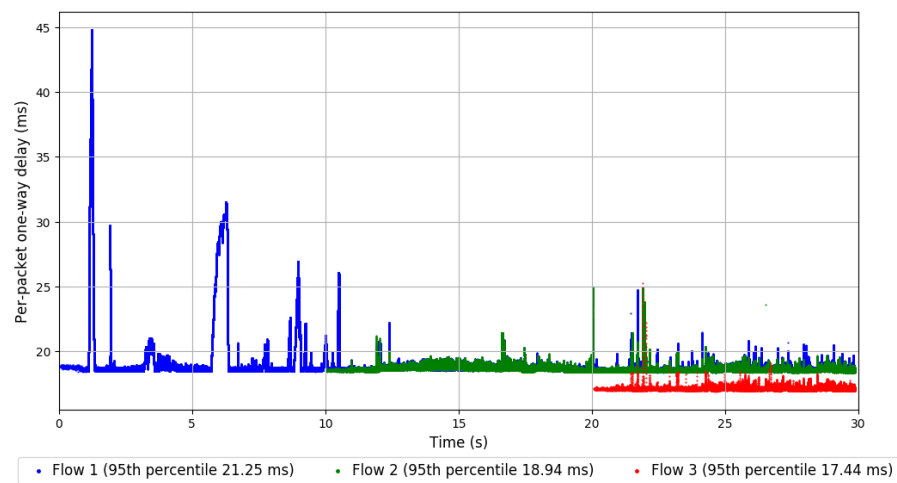
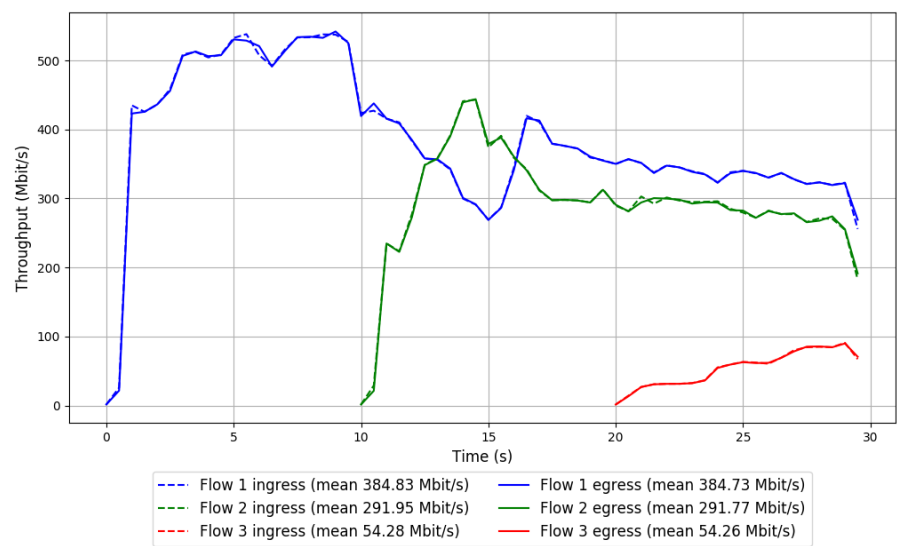
-- Flow 3:

Average throughput: 54.26 Mbit/s

95th percentile per-packet one-way delay: 17.444 ms

Loss rate: 0.04%

Run 9: Report of Vivace-LTE — Data Link



Run 10: Statistics of Vivace-LTE

Start at: 2018-03-06 21:15:35

End at: 2018-03-06 21:16:05

Local clock offset: -6.909 ms

Remote clock offset: 2.684 ms

Below is generated by plot.py at 2018-03-07 02:38:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 640.40 Mbit/s

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

Loss rate: 0.06%

-- Flow 1:

Average throughput: 406.33 Mbit/s

95th percentile per-packet one-way delay: 24.242 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 318.46 Mbit/s

95th percentile per-packet one-way delay: 19.808 ms

Loss rate: 0.10%

-- Flow 3:

Average throughput: 68.25 Mbit/s

95th percentile per-packet one-way delay: 19.234 ms

Loss rate: 0.05%

Run 10: Report of Vivace-LTE — Data Link

