

Pantheon Report

Generated at 2018-02-28 14:34:08 (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).

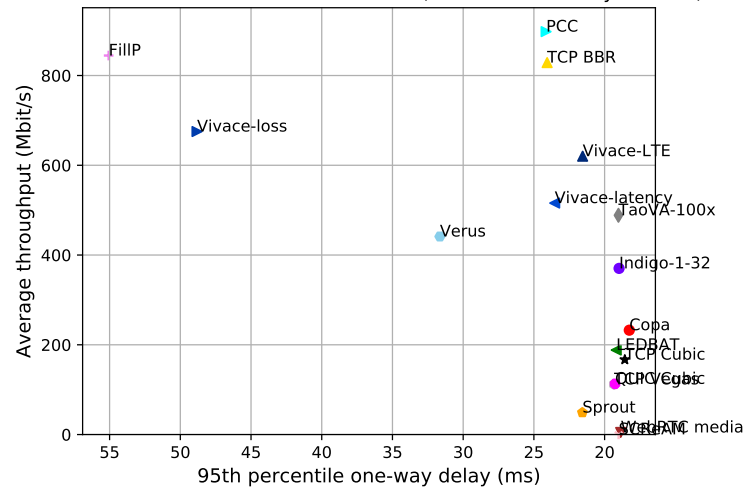
Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo_fast**).

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

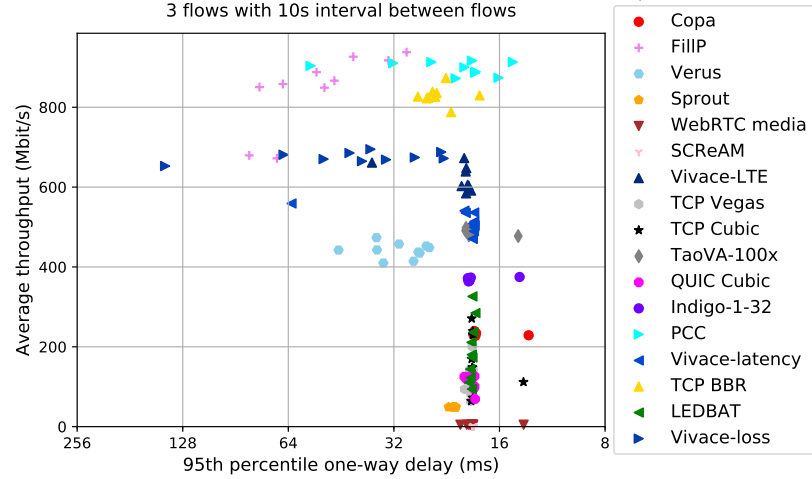
Git summary:

```
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



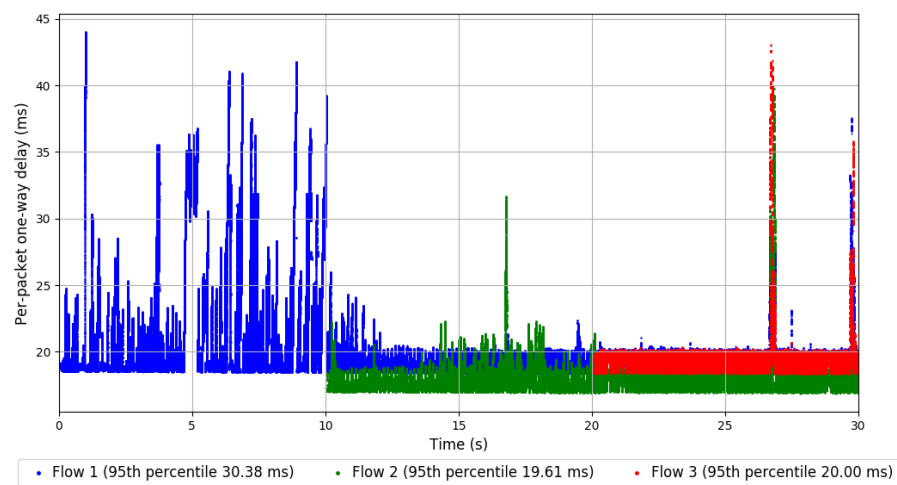
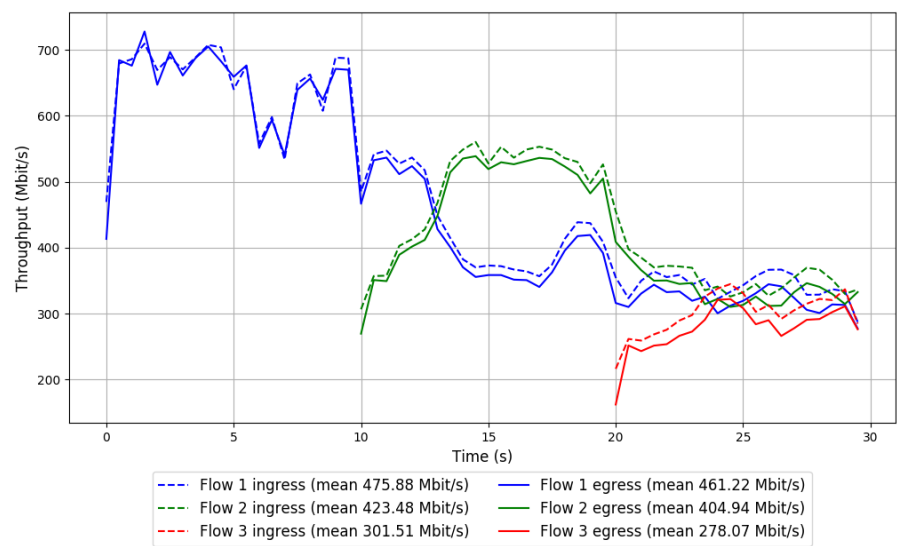
scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	10	491.57	365.00	283.58	27.13	19.30	19.43	2.77	5.27	6.79
TCP Cubic	10	79.13	85.15	93.58	18.21	18.41	18.43	0.04	0.06	0.06
LEDBAT	10	98.80	93.56	81.94	18.90	19.14	19.27	0.04	0.04	0.04
PCC	10	753.86	175.22	83.59	26.11	18.62	18.77	0.47	0.47	0.59
QUIC Cubic	10	57.26	58.48	51.91	18.79	19.22	20.46	0.03	0.03	0.04
SCReAM	10	0.22	0.22	0.22	18.88	18.73	18.87	0.02	0.00	0.00
WebRTC media	10	2.34	1.60	0.73	19.06	18.67	18.75	0.03	0.02	0.01
Sprout	10	24.66	24.54	24.38	21.52	21.25	21.15	0.13	0.13	0.14
TaoVA-100x	10	251.42	242.52	228.27	18.45	19.07	19.84	0.04	0.05	0.06
TCP Vegas	10	50.14	58.63	68.13	19.15	18.99	19.66	0.06	0.11	0.15
Verus	10	233.95	221.10	187.17	36.90	26.61	22.65	12.51	12.77	13.79
Copa	10	115.25	113.93	124.97	17.83	17.84	18.00	0.02	0.02	0.02
FillP	10	490.37	347.07	372.56	57.82	51.94	27.53	8.94	13.84	13.96
Indigo-1-32	10	192.61	184.24	173.59	18.67	18.76	19.64	0.04	0.05	0.05
Vivace-latency	10	310.69	267.48	82.81	27.62	18.61	19.02	0.16	0.08	0.07
Vivace-loss	10	382.02	335.21	213.65	50.01	47.95	19.77	1.07	1.23	2.05
Vivace-LTE	10	358.29	321.93	145.64	23.64	19.50	19.46	0.20	0.39	0.53

Run 1: Statistics of TCP BBR

Start at: 2018-02-28 05:18:07
End at: 2018-02-28 05:18:37
Local clock offset: 1.488 ms
Remote clock offset: -4.107 ms

Below is generated by plot.py at 2018-02-28 12:35:12
Datalink statistics
-- Total of 3 flows:
Average throughput: 823.31 Mbit/s
95th percentile per-packet one-way delay: 25.569 ms
Loss rate: 4.06%
-- Flow 1:
Average throughput: 461.22 Mbit/s
95th percentile per-packet one-way delay: 30.381 ms
Loss rate: 3.08%
-- Flow 2:
Average throughput: 404.94 Mbit/s
95th percentile per-packet one-way delay: 19.605 ms
Loss rate: 4.38%
-- Flow 3:
Average throughput: 278.07 Mbit/s
95th percentile per-packet one-way delay: 19.999 ms
Loss rate: 7.79%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-02-28 05:47:12

End at: 2018-02-28 05:47:42

Local clock offset: 1.577 ms

Remote clock offset: 1.744 ms

Below is generated by plot.py at 2018-02-28 12:35:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 826.29 Mbit/s

95th percentile per-packet one-way delay: 24.385 ms

Loss rate: 3.77%

-- Flow 1:

Average throughput: 508.33 Mbit/s

95th percentile per-packet one-way delay: 26.932 ms

Loss rate: 2.34%

-- Flow 2:

Average throughput: 336.94 Mbit/s

95th percentile per-packet one-way delay: 20.178 ms

Loss rate: 5.34%

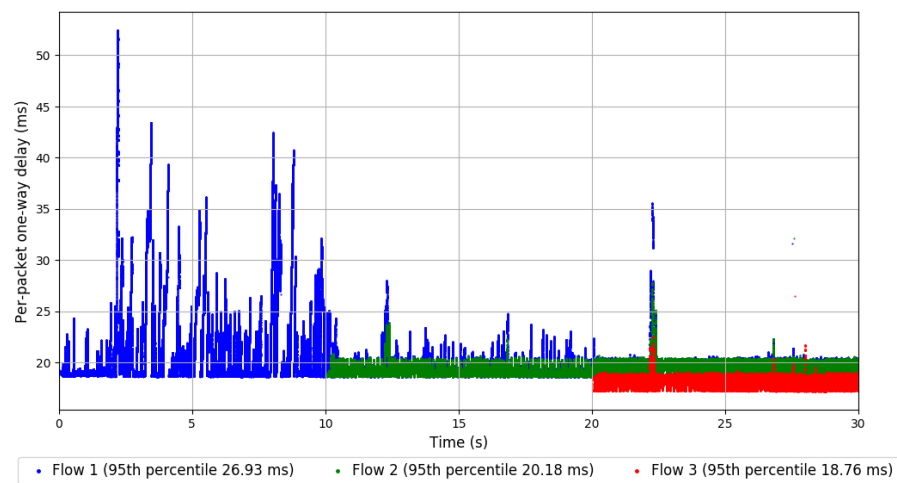
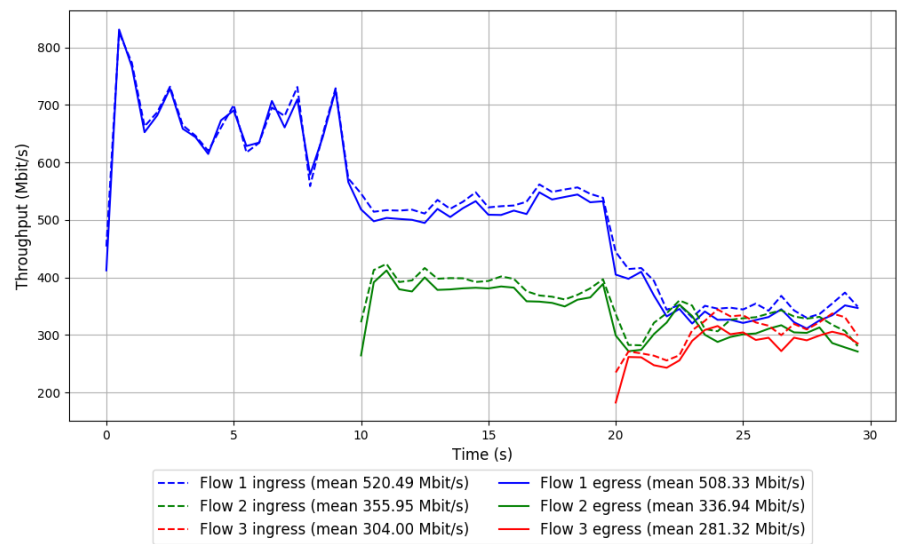
-- Flow 3:

Average throughput: 281.32 Mbit/s

95th percentile per-packet one-way delay: 18.764 ms

Loss rate: 7.46%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-02-28 06:16:29

End at: 2018-02-28 06:16:59

Local clock offset: 1.105 ms

Remote clock offset: 0.374 ms

Below is generated by plot.py at 2018-02-28 12:35:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 826.78 Mbit/s

95th percentile per-packet one-way delay: 27.338 ms

Loss rate: 4.47%

-- Flow 1:

Average throughput: 483.01 Mbit/s

95th percentile per-packet one-way delay: 31.918 ms

Loss rate: 2.83%

-- Flow 2:

Average throughput: 368.60 Mbit/s

95th percentile per-packet one-way delay: 19.007 ms

Loss rate: 6.04%

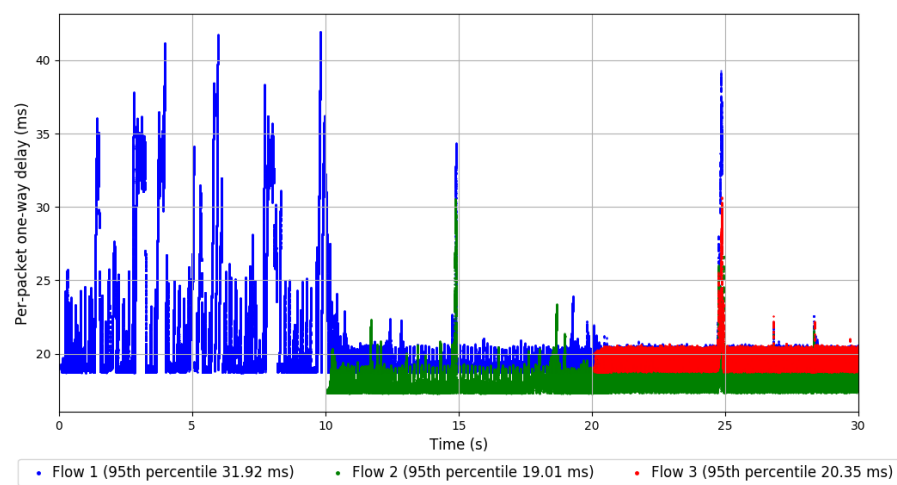
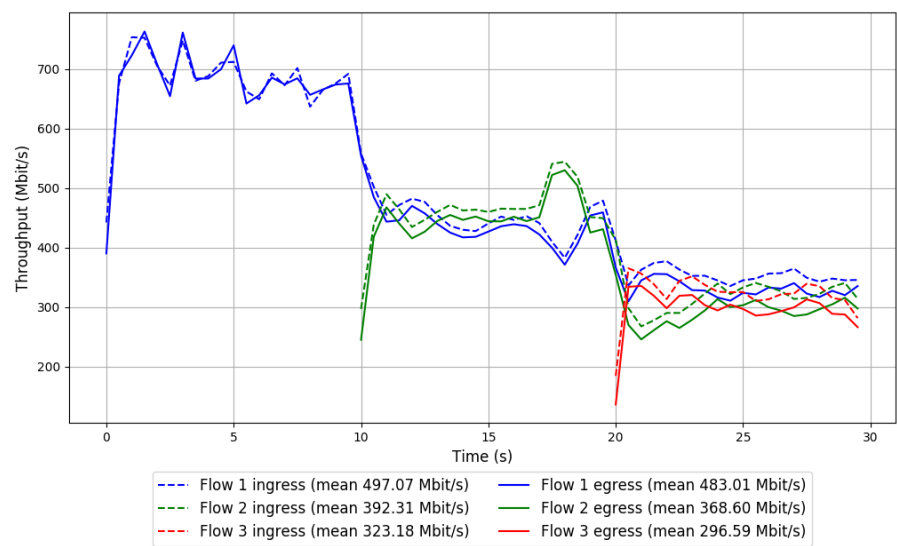
-- Flow 3:

Average throughput: 296.59 Mbit/s

95th percentile per-packet one-way delay: 20.348 ms

Loss rate: 8.24%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-02-28 06:45:32

End at: 2018-02-28 06:46:02

Local clock offset: -0.536 ms

Remote clock offset: 0.23 ms

Below is generated by plot.py at 2018-02-28 12:35:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 873.16 Mbit/s

95th percentile per-packet one-way delay: 22.743 ms

Loss rate: 3.70%

-- Flow 1:

Average throughput: 511.83 Mbit/s

95th percentile per-packet one-way delay: 24.973 ms

Loss rate: 2.54%

-- Flow 2:

Average throughput: 432.41 Mbit/s

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

Loss rate: 4.84%

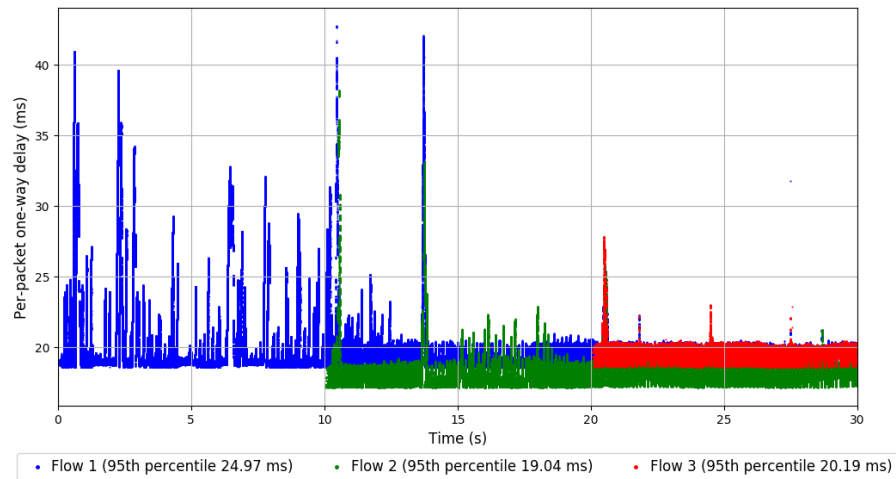
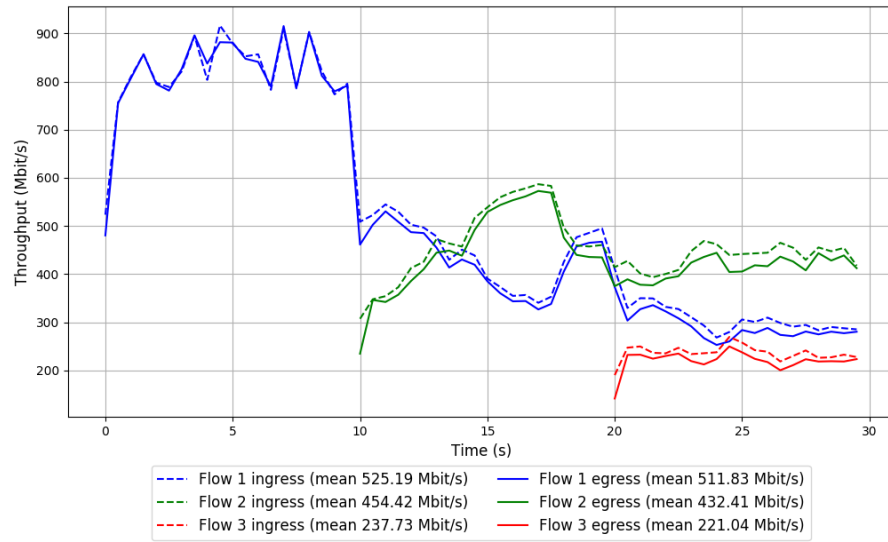
-- Flow 3:

Average throughput: 221.04 Mbit/s

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

Loss rate: 7.02%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-02-28 07:14:32

End at: 2018-02-28 07:15:02

Local clock offset: 0.828 ms

Remote clock offset: 0.384 ms

Below is generated by plot.py at 2018-02-28 12:35:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 838.90 Mbit/s

95th percentile per-packet one-way delay: 24.831 ms

Loss rate: 3.99%

-- Flow 1:

Average throughput: 511.06 Mbit/s

95th percentile per-packet one-way delay: 28.070 ms

Loss rate: 2.65%

-- Flow 2:

Average throughput: 328.85 Mbit/s

95th percentile per-packet one-way delay: 20.327 ms

Loss rate: 5.72%

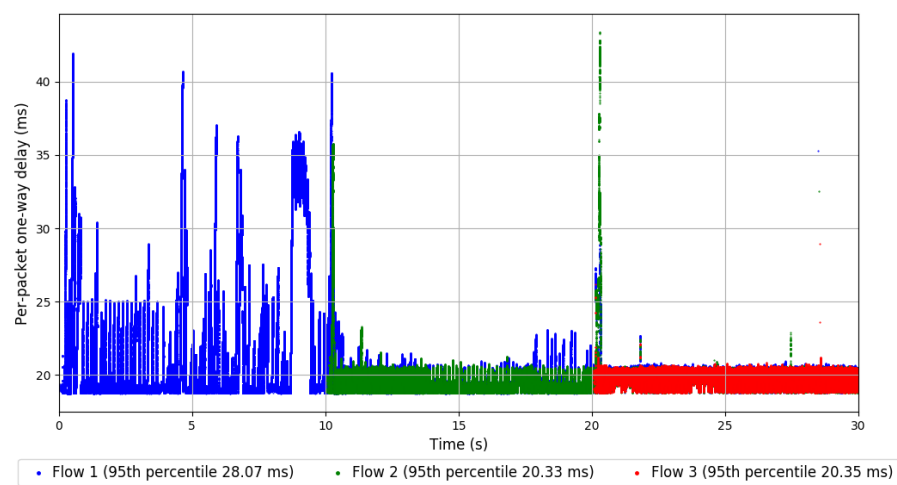
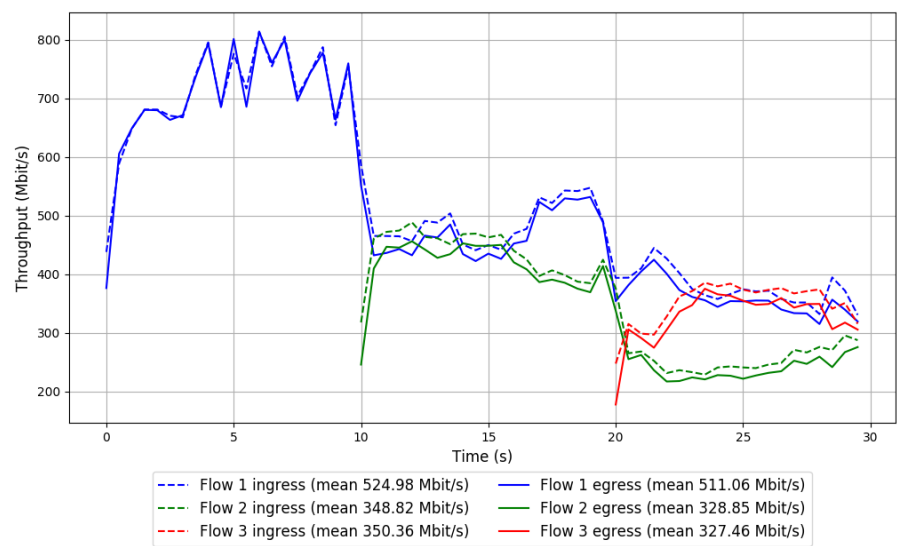
-- Flow 3:

Average throughput: 327.46 Mbit/s

95th percentile per-packet one-way delay: 20.347 ms

Loss rate: 6.55%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-02-28 07:43:53

End at: 2018-02-28 07:44:23

Local clock offset: 1.055 ms

Remote clock offset: 2.024 ms

Below is generated by plot.py at 2018-02-28 12:35:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 824.47 Mbit/s

95th percentile per-packet one-way delay: 25.604 ms

Loss rate: 3.52%

-- Flow 1:

Average throughput: 479.10 Mbit/s

95th percentile per-packet one-way delay: 28.070 ms

Loss rate: 2.75%

-- Flow 2:

Average throughput: 357.43 Mbit/s

95th percentile per-packet one-way delay: 20.275 ms

Loss rate: 4.71%

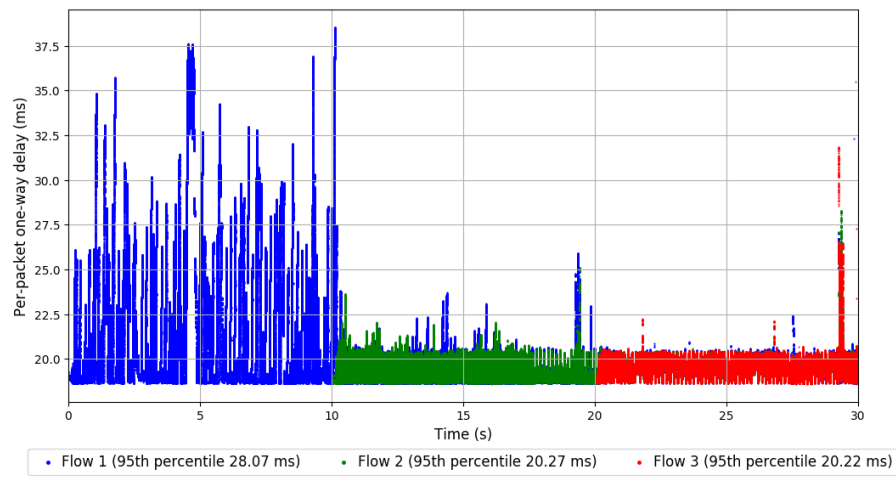
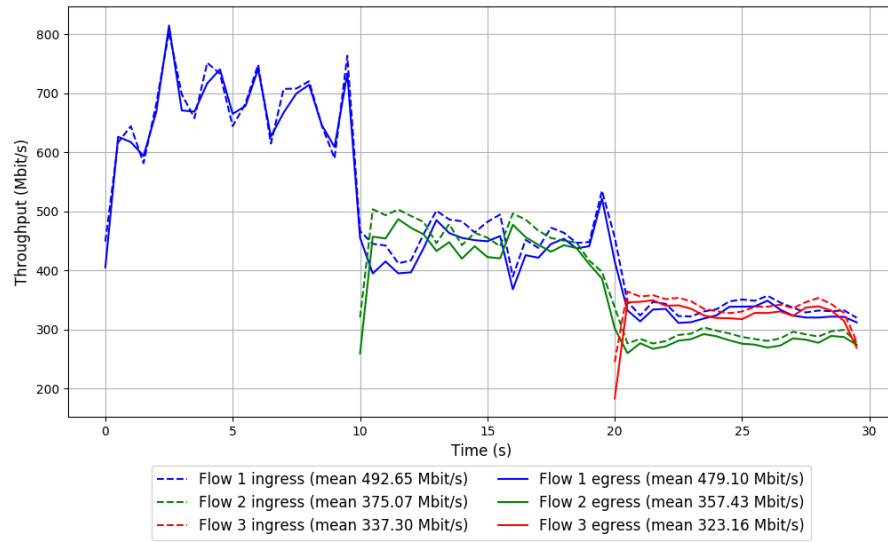
-- Flow 3:

Average throughput: 323.16 Mbit/s

95th percentile per-packet one-way delay: 20.221 ms

Loss rate: 4.21%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-02-28 08:12:40

End at: 2018-02-28 08:13:10

Local clock offset: 0.935 ms

Remote clock offset: 1.859 ms

Below is generated by plot.py at 2018-02-28 12:35:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 787.70 Mbit/s

95th percentile per-packet one-way delay: 21.982 ms

Loss rate: 4.09%

-- Flow 1:

Average throughput: 439.72 Mbit/s

95th percentile per-packet one-way delay: 23.469 ms

Loss rate: 3.05%

-- Flow 2:

Average throughput: 374.70 Mbit/s

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

Loss rate: 5.03%

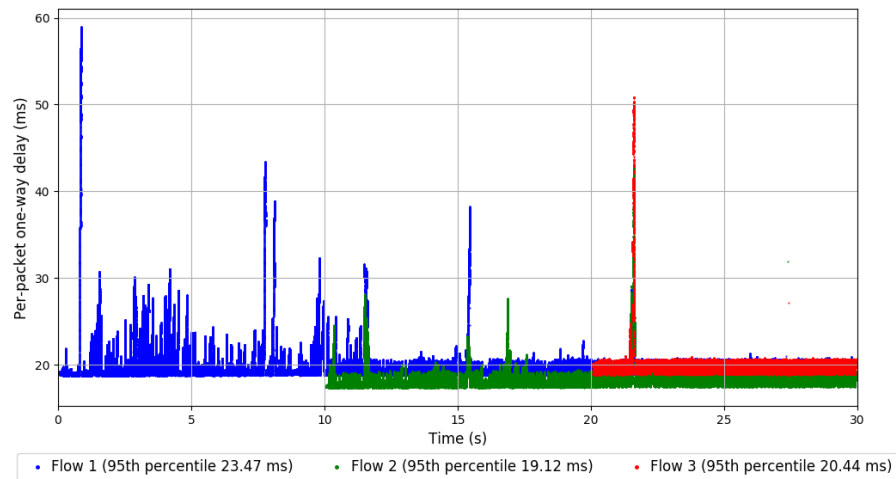
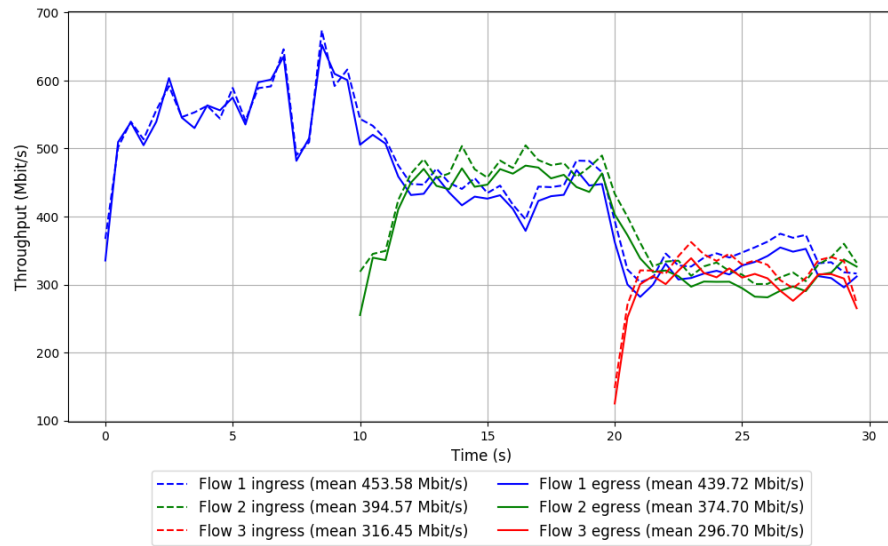
-- Flow 3:

Average throughput: 296.70 Mbit/s

95th percentile per-packet one-way delay: 20.436 ms

Loss rate: 6.23%

Run 7: Report of TCP BBR — Data Link

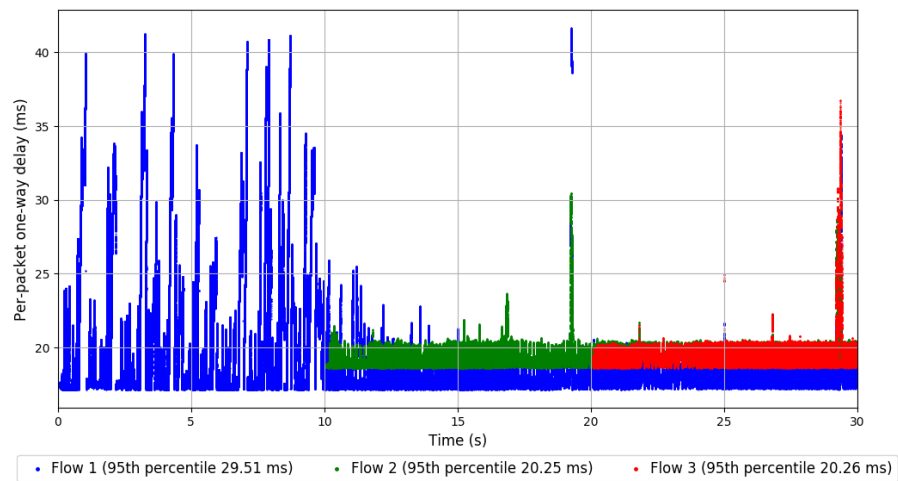
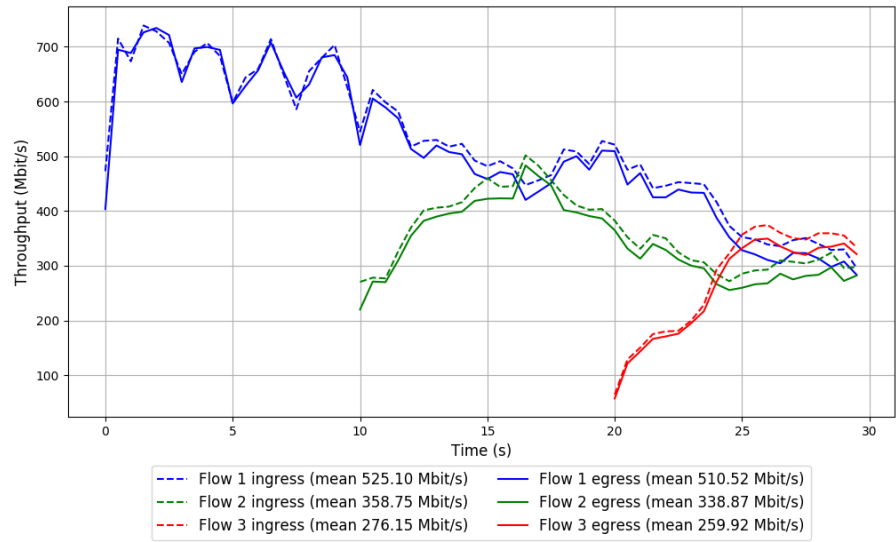


Run 8: Statistics of TCP BBR

Start at: 2018-02-28 08:41:32
End at: 2018-02-28 08:42:02
Local clock offset: 0.855 ms
Remote clock offset: -0.796 ms

Below is generated by plot.py at 2018-02-28 12:35:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 822.40 Mbit/s
95th percentile per-packet one-way delay: 25.787 ms
Loss rate: 3.88%
-- Flow 1:
Average throughput: 510.52 Mbit/s
95th percentile per-packet one-way delay: 29.512 ms
Loss rate: 2.77%
-- Flow 2:
Average throughput: 338.87 Mbit/s
95th percentile per-packet one-way delay: 20.249 ms
Loss rate: 5.54%
-- Flow 3:
Average throughput: 259.92 Mbit/s
95th percentile per-packet one-way delay: 20.259 ms
Loss rate: 5.88%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-02-28 09:10:29

End at: 2018-02-28 09:10:59

Local clock offset: 0.73 ms

Remote clock offset: 1.123 ms

Below is generated by plot.py at 2018-02-28 12:46:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 835.63 Mbit/s

95th percentile per-packet one-way delay: 24.166 ms

Loss rate: 4.10%

-- Flow 1:

Average throughput: 505.03 Mbit/s

95th percentile per-packet one-way delay: 27.119 ms

Loss rate: 2.86%

-- Flow 2:

Average throughput: 361.20 Mbit/s

95th percentile per-packet one-way delay: 20.340 ms

Loss rate: 5.27%

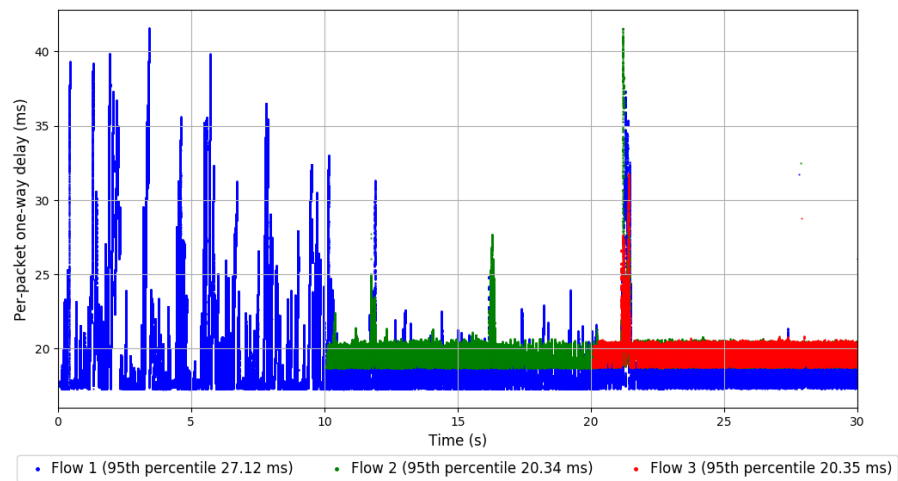
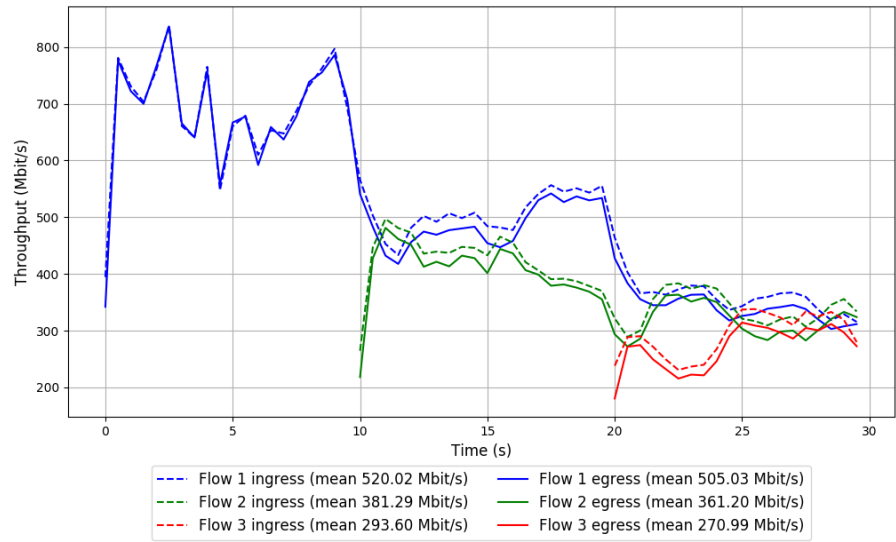
-- Flow 3:

Average throughput: 270.99 Mbit/s

95th percentile per-packet one-way delay: 20.347 ms

Loss rate: 7.71%

Run 9: Report of TCP BBR — Data Link

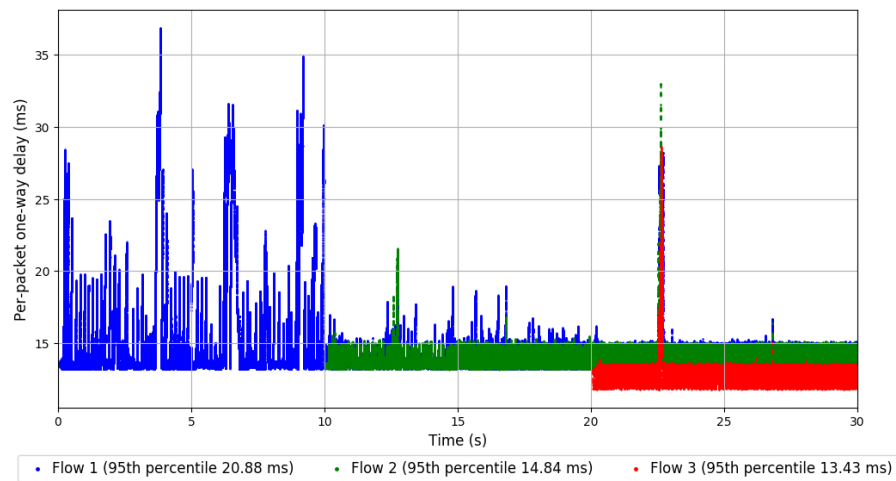
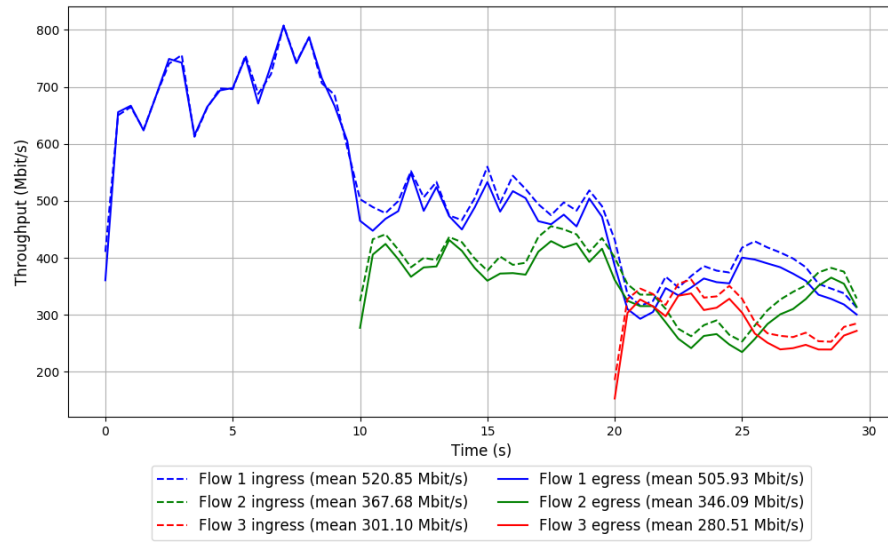


Run 10: Statistics of TCP BBR

Start at: 2018-02-28 09:43:18
End at: 2018-02-28 09:43:48
Local clock offset: 6.325 ms
Remote clock offset: -0.187 ms

Below is generated by plot.py at 2018-02-28 12:46:28
Datalink statistics
-- Total of 3 flows:
Average throughput: 829.57 Mbit/s
95th percentile per-packet one-way delay: 18.231 ms
Loss rate: 4.17%
-- Flow 1:
Average throughput: 505.93 Mbit/s
95th percentile per-packet one-way delay: 20.880 ms
Loss rate: 2.87%
-- Flow 2:
Average throughput: 346.09 Mbit/s
95th percentile per-packet one-way delay: 14.836 ms
Loss rate: 5.87%
-- Flow 3:
Average throughput: 280.51 Mbit/s
95th percentile per-packet one-way delay: 13.430 ms
Loss rate: 6.84%

Run 10: Report of TCP BBR — Data Link

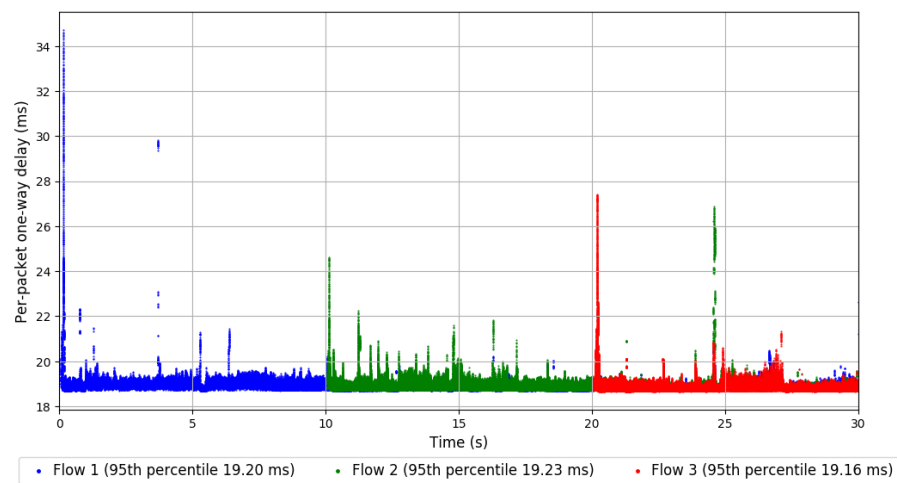
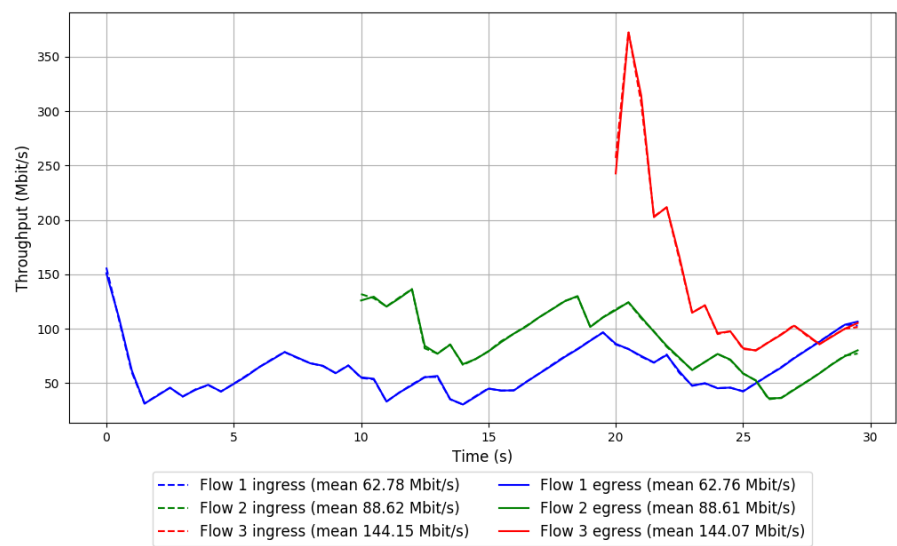


Run 1: Statistics of TCP Cubic

Start at: 2018-02-28 05:04:00
End at: 2018-02-28 05:04:30
Local clock offset: 1.453 ms
Remote clock offset: -4.585 ms

Below is generated by plot.py at 2018-02-28 12:46:28
Datalink statistics
-- Total of 3 flows:
Average throughput: 169.59 Mbit/s
95th percentile per-packet one-way delay: 19.203 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 62.76 Mbit/s
95th percentile per-packet one-way delay: 19.201 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 88.61 Mbit/s
95th percentile per-packet one-way delay: 19.234 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 144.07 Mbit/s
95th percentile per-packet one-way delay: 19.160 ms
Loss rate: 0.05%

Run 1: Report of TCP Cubic — Data Link

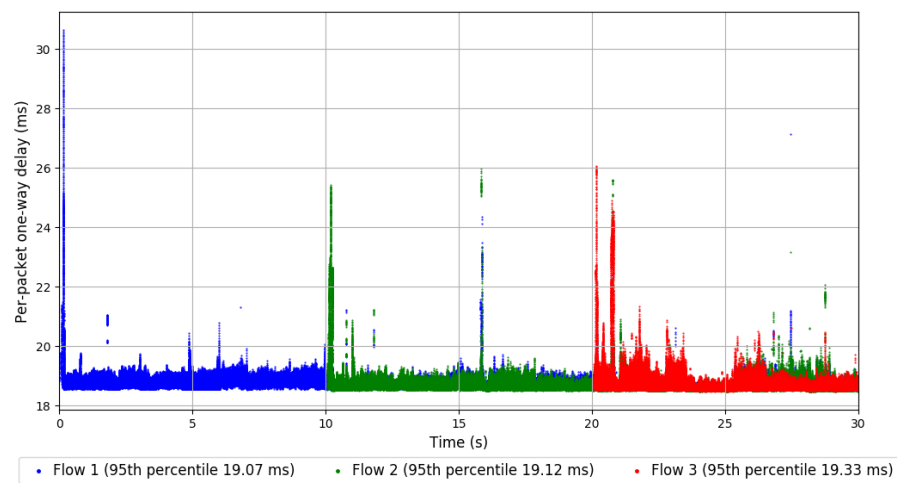
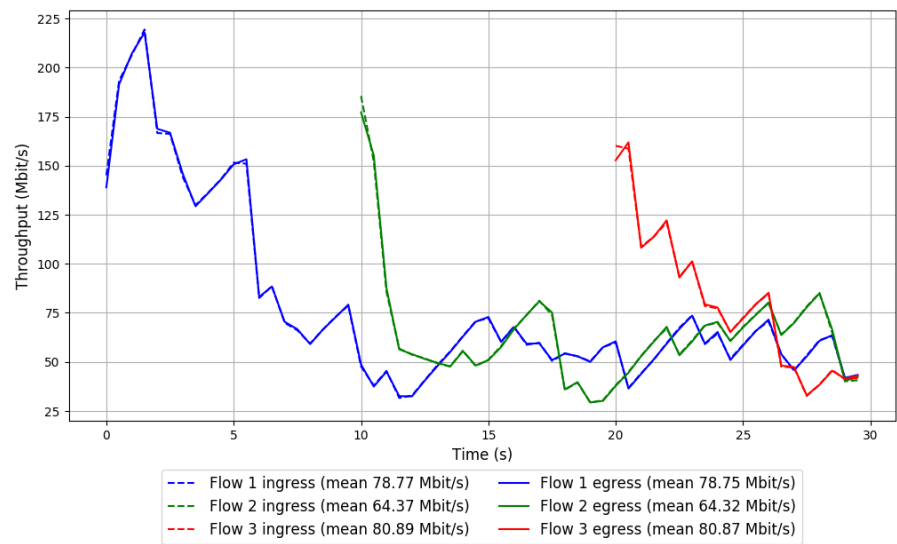


Run 2: Statistics of TCP Cubic

Start at: 2018-02-28 05:33:03
End at: 2018-02-28 05:33:33
Local clock offset: 1.447 ms
Remote clock offset: -0.012 ms

Below is generated by plot.py at 2018-02-28 12:46:28
Datalink statistics
-- Total of 3 flows:
Average throughput: 148.42 Mbit/s
95th percentile per-packet one-way delay: 19.121 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 78.75 Mbit/s
95th percentile per-packet one-way delay: 19.070 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 64.32 Mbit/s
95th percentile per-packet one-way delay: 19.122 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 80.87 Mbit/s
95th percentile per-packet one-way delay: 19.330 ms
Loss rate: 0.03%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-02-28 06:02:14

End at: 2018-02-28 06:02:44

Local clock offset: 1.206 ms

Remote clock offset: 0.538 ms

Below is generated by plot.py at 2018-02-28 12:46:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 239.16 Mbit/s

95th percentile per-packet one-way delay: 19.051 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 95.76 Mbit/s

95th percentile per-packet one-way delay: 19.111 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 139.51 Mbit/s

95th percentile per-packet one-way delay: 18.967 ms

Loss rate: 0.02%

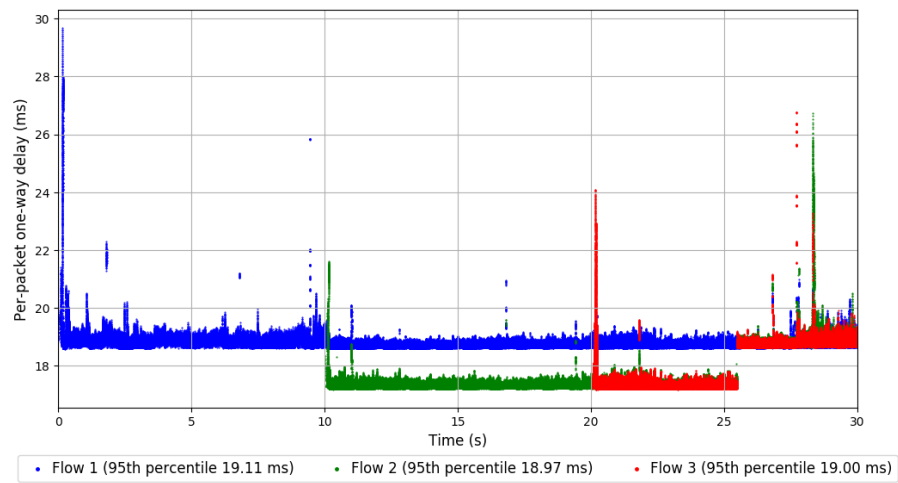
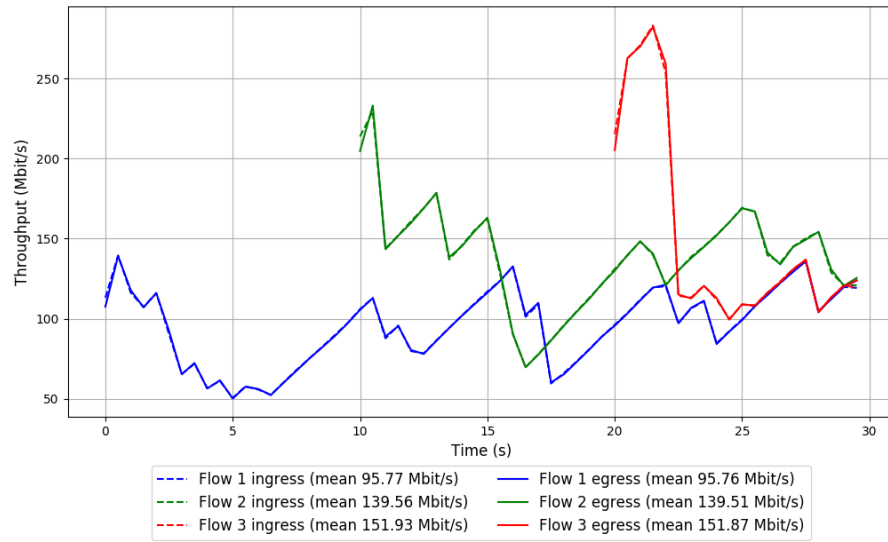
-- Flow 3:

Average throughput: 151.87 Mbit/s

95th percentile per-packet one-way delay: 19.004 ms

Loss rate: 0.03%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-02-28 06:31:22

End at: 2018-02-28 06:31:52

Local clock offset: 0.117 ms

Remote clock offset: 0.227 ms

Below is generated by plot.py at 2018-02-28 12:46:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 229.38 Mbit/s

95th percentile per-packet one-way delay: 19.056 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 104.96 Mbit/s

95th percentile per-packet one-way delay: 19.091 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 124.77 Mbit/s

95th percentile per-packet one-way delay: 19.080 ms

Loss rate: 0.02%

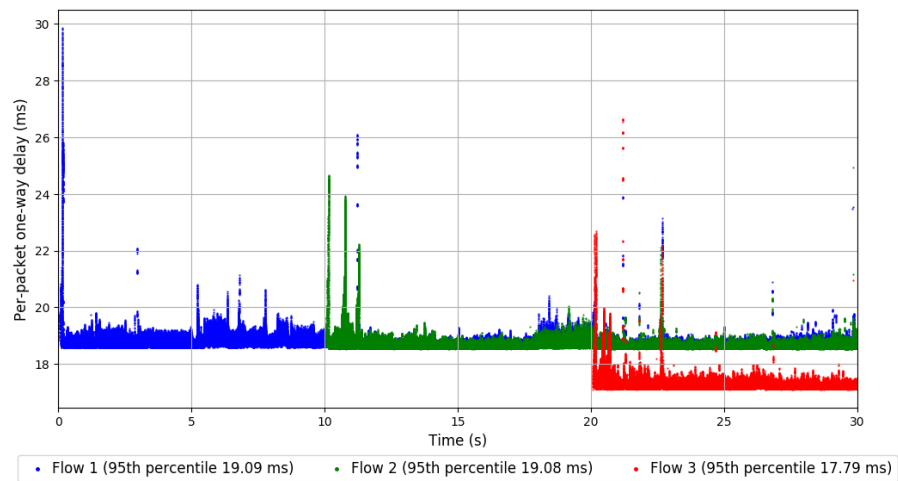
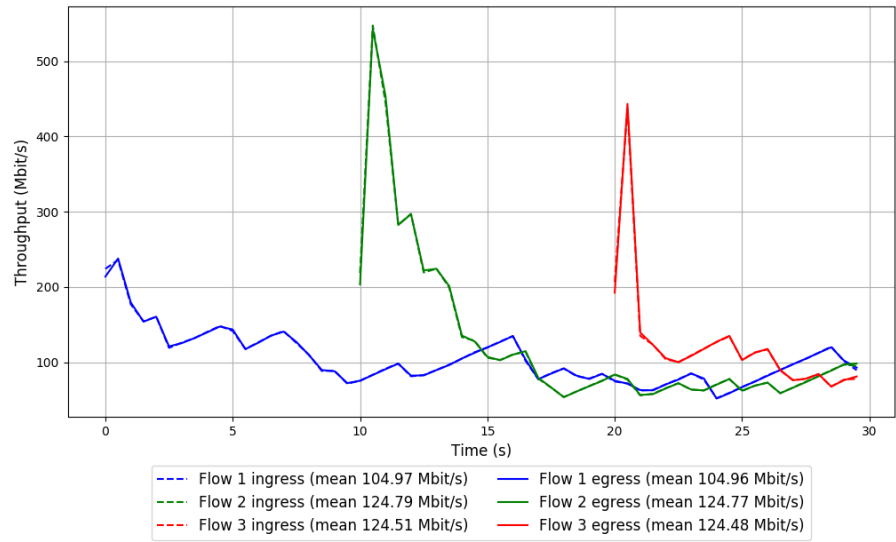
-- Flow 3:

Average throughput: 124.48 Mbit/s

95th percentile per-packet one-way delay: 17.788 ms

Loss rate: 0.02%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-02-28 07:00:19

End at: 2018-02-28 07:00:49

Local clock offset: -0.182 ms

Remote clock offset: 0.311 ms

Below is generated by plot.py at 2018-02-28 12:46:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 232.16 Mbit/s

95th percentile per-packet one-way delay: 18.998 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 133.14 Mbit/s

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

Loss rate: 0.05%

-- Flow 2:

Average throughput: 91.81 Mbit/s

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

Loss rate: 0.02%

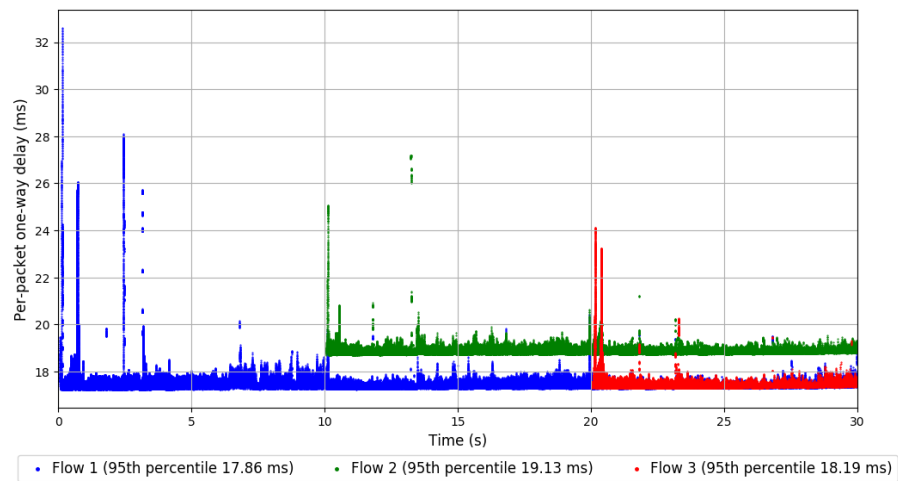
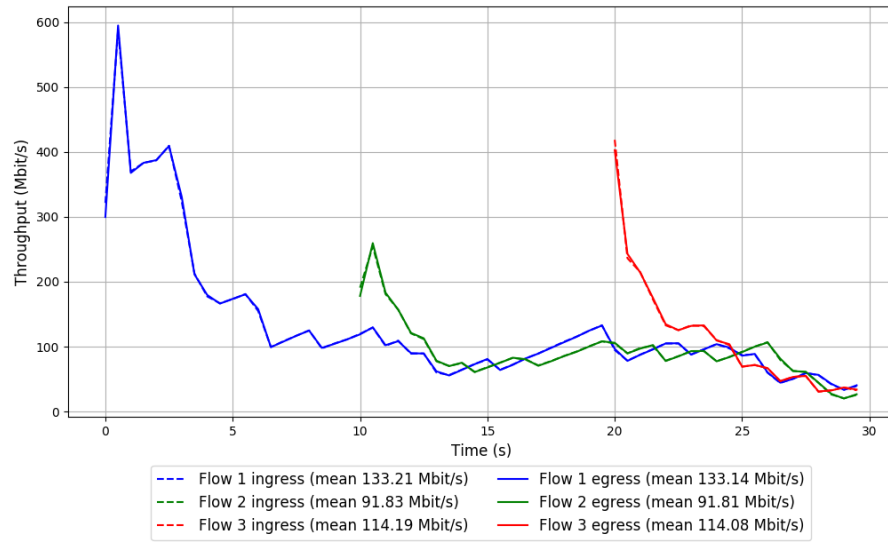
-- Flow 3:

Average throughput: 114.08 Mbit/s

95th percentile per-packet one-way delay: 18.193 ms

Loss rate: 0.09%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-02-28 07:29:41

End at: 2018-02-28 07:30:11

Local clock offset: 1.185 ms

Remote clock offset: 0.692 ms

Below is generated by plot.py at 2018-02-28 12:46:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 270.90 Mbit/s

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

Loss rate: 0.08%

-- Flow 1:

Average throughput: 116.66 Mbit/s

95th percentile per-packet one-way delay: 17.811 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 168.36 Mbit/s

95th percentile per-packet one-way delay: 20.142 ms

Loss rate: 0.09%

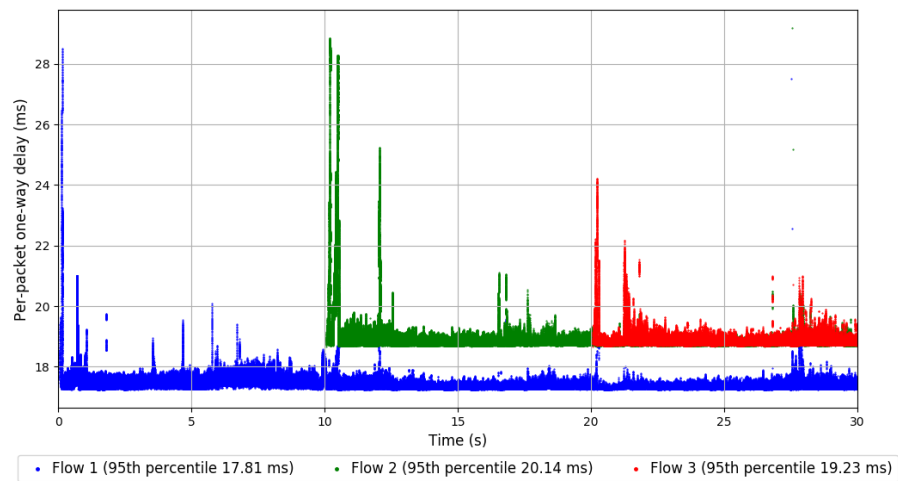
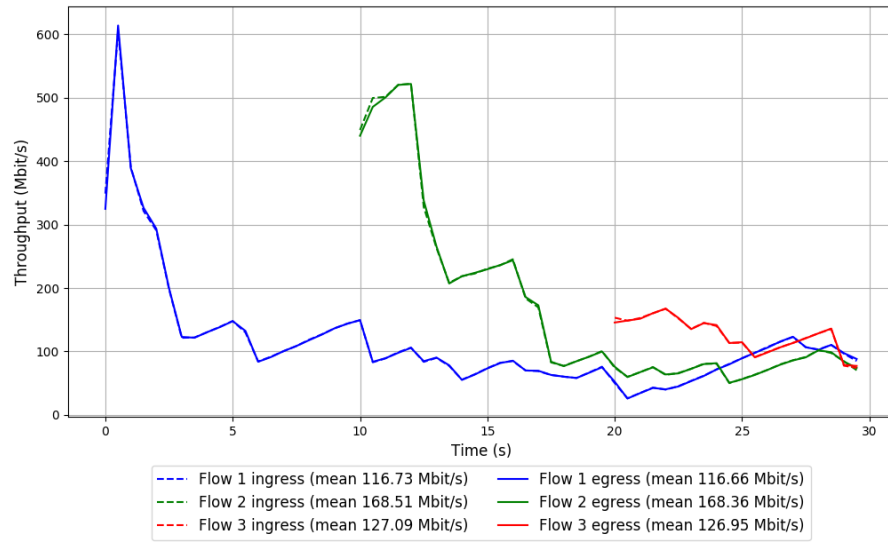
-- Flow 3:

Average throughput: 126.95 Mbit/s

95th percentile per-packet one-way delay: 19.233 ms

Loss rate: 0.11%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-02-28 07:58:38

End at: 2018-02-28 07:59:08

Local clock offset: 1.028 ms

Remote clock offset: 2.832 ms

Below is generated by plot.py at 2018-02-28 12:46:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 64.29 Mbit/s

95th percentile per-packet one-way delay: 19.275 ms

Loss rate: 0.11%

-- Flow 1:

Average throughput: 33.47 Mbit/s

95th percentile per-packet one-way delay: 19.230 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 22.57 Mbit/s

95th percentile per-packet one-way delay: 19.177 ms

Loss rate: 0.15%

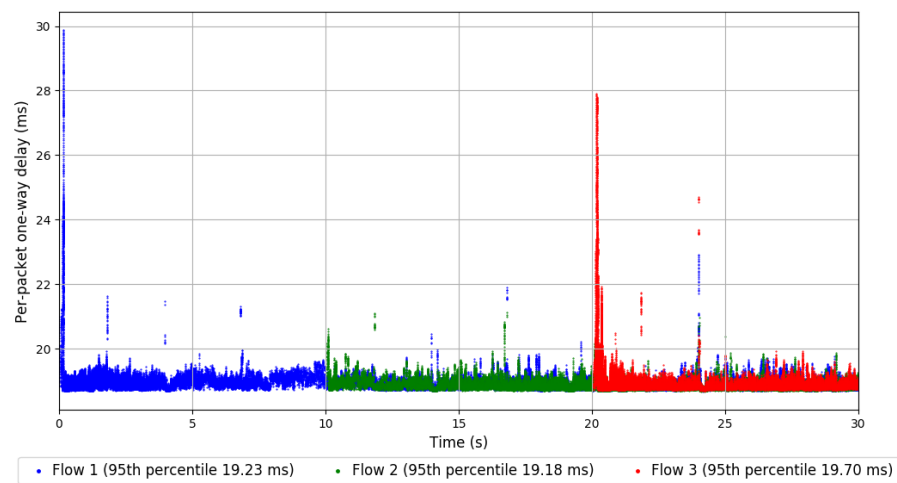
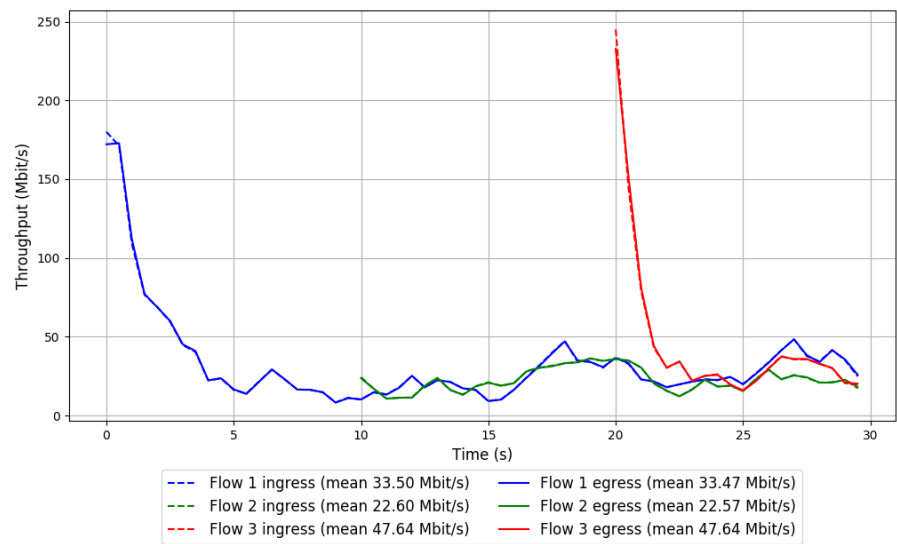
-- Flow 3:

Average throughput: 47.64 Mbit/s

95th percentile per-packet one-way delay: 19.700 ms

Loss rate: 0.10%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-02-28 08:27:29

End at: 2018-02-28 08:27:59

Local clock offset: 0.845 ms

Remote clock offset: -0.08 ms

Below is generated by plot.py at 2018-02-28 12:46:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 72.58 Mbit/s

95th percentile per-packet one-way delay: 19.055 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 43.00 Mbit/s

95th percentile per-packet one-way delay: 17.815 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 29.46 Mbit/s

95th percentile per-packet one-way delay: 19.156 ms

Loss rate: 0.09%

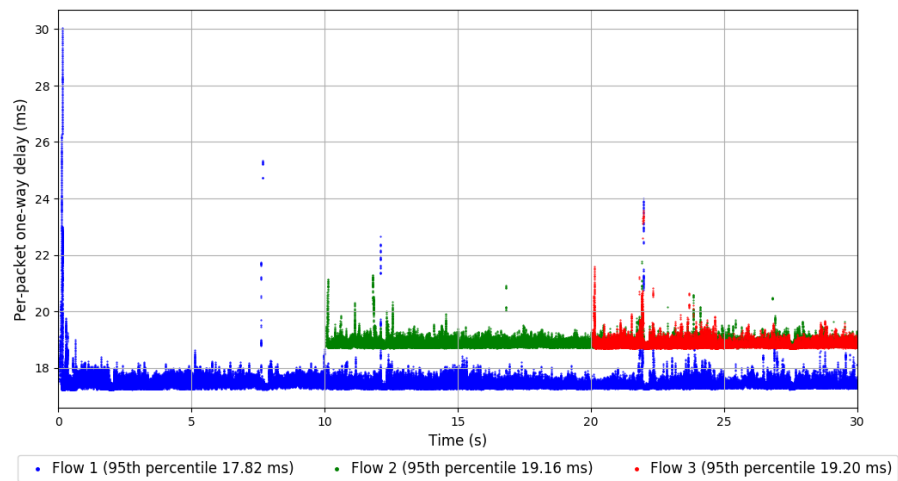
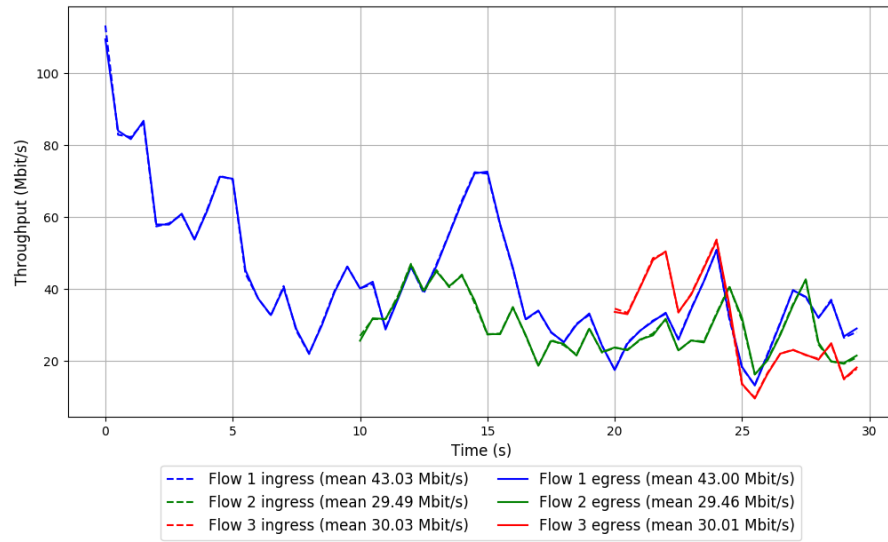
-- Flow 3:

Average throughput: 30.01 Mbit/s

95th percentile per-packet one-way delay: 19.200 ms

Loss rate: 0.08%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-02-28 08:56:24

End at: 2018-02-28 08:56:54

Local clock offset: 0.781 ms

Remote clock offset: 0.757 ms

Below is generated by plot.py at 2018-02-28 12:46:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 130.69 Mbit/s

95th percentile per-packet one-way delay: 19.094 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 67.13 Mbit/s

95th percentile per-packet one-way delay: 19.158 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 65.57 Mbit/s

95th percentile per-packet one-way delay: 17.787 ms

Loss rate: 0.05%

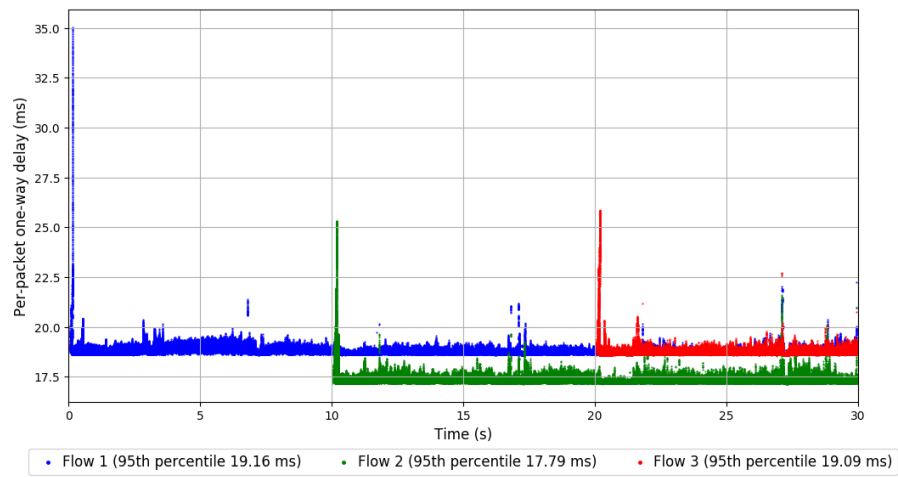
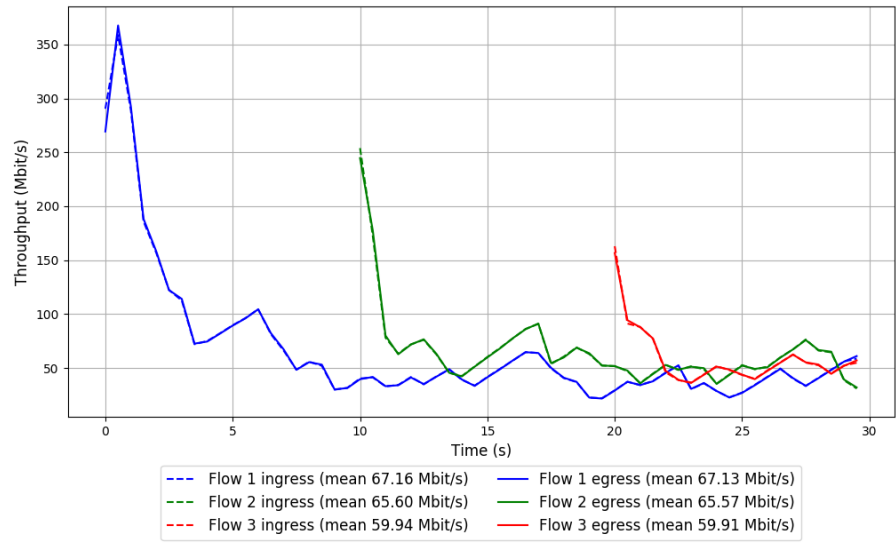
-- Flow 3:

Average throughput: 59.91 Mbit/s

95th percentile per-packet one-way delay: 19.091 ms

Loss rate: 0.05%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-02-28 09:29:12

End at: 2018-02-28 09:29:42

Local clock offset: 6.304 ms

Remote clock offset: 0.155 ms

Below is generated by plot.py at 2018-02-28 12:46:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 111.87 Mbit/s

95th percentile per-packet one-way delay: 13.668 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 55.63 Mbit/s

95th percentile per-packet one-way delay: 13.737 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 56.56 Mbit/s

95th percentile per-packet one-way delay: 12.289 ms

Loss rate: 0.04%

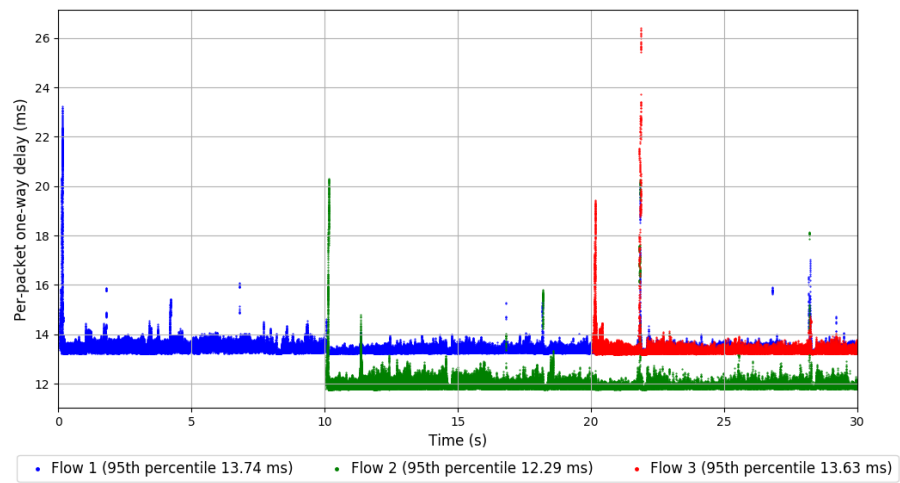
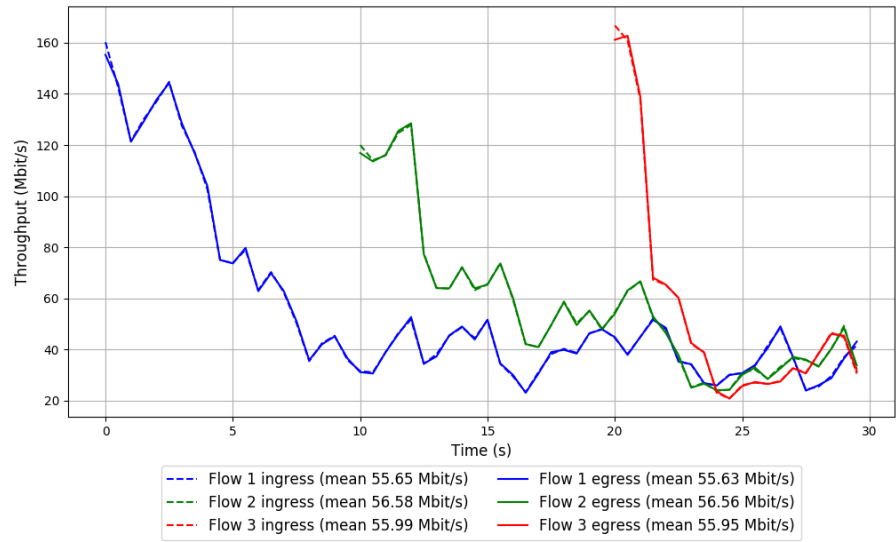
-- Flow 3:

Average throughput: 55.95 Mbit/s

95th percentile per-packet one-way delay: 13.626 ms

Loss rate: 0.06%

Run 10: Report of TCP Cubic — Data Link

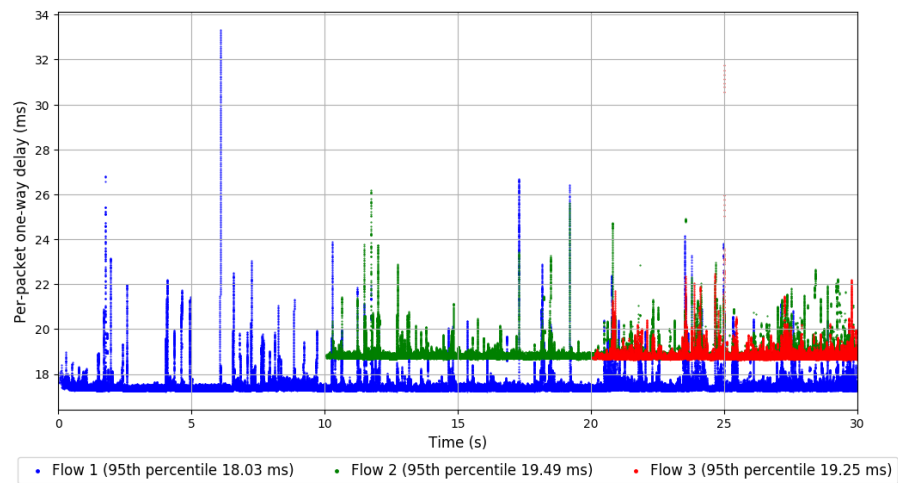
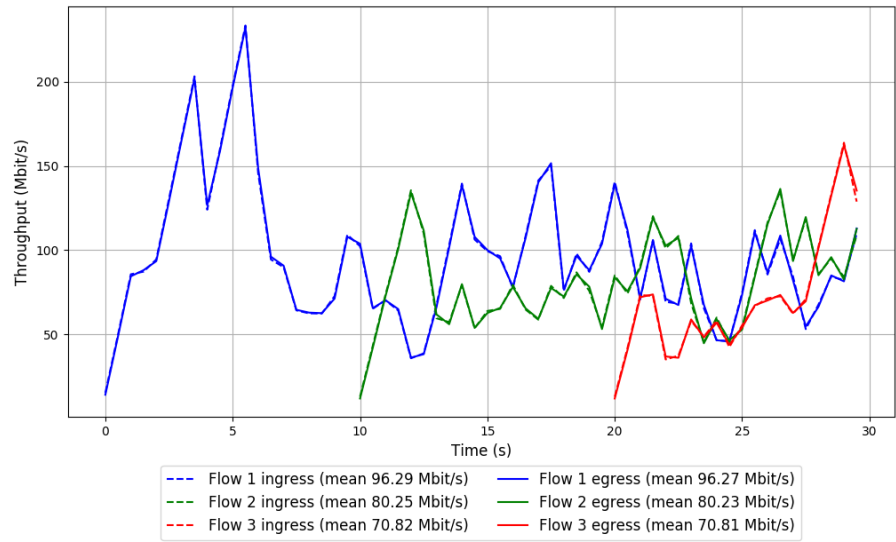


```
Run 1: Statistics of LEDBAT

Start at: 2018-02-28 05:02:33
End at: 2018-02-28 05:03:03
Local clock offset: 1.457 ms
Remote clock offset: -4.602 ms

# Below is generated by plot.py at 2018-02-28 12:46:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 173.19 Mbit/s
95th percentile per-packet one-way delay: 19.105 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 96.27 Mbit/s
95th percentile per-packet one-way delay: 18.031 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 80.23 Mbit/s
95th percentile per-packet one-way delay: 19.489 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 70.81 Mbit/s
95th percentile per-packet one-way delay: 19.248 ms
Loss rate: 0.02%
```


Run 1: Report of LEDBAT — Data Link

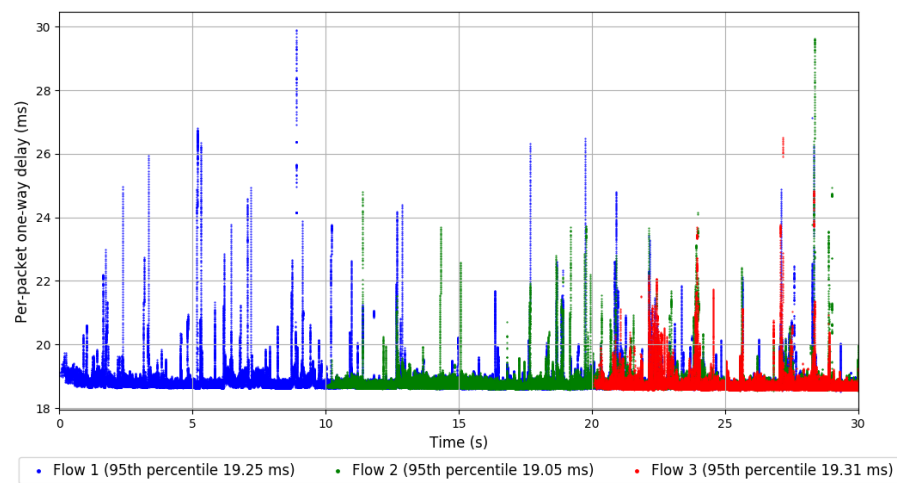
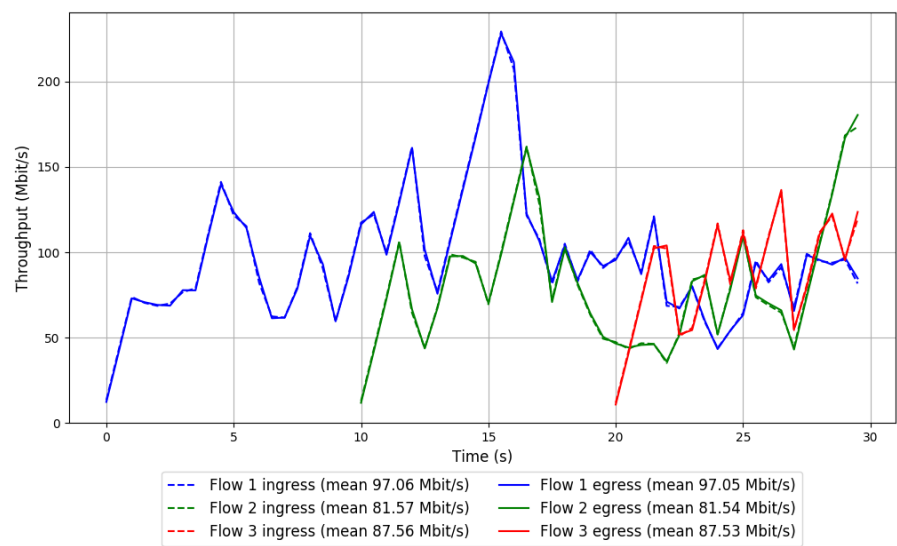


Run 2: Statistics of LEDBAT

Start at: 2018-02-28 05:31:35
End at: 2018-02-28 05:32:05
Local clock offset: 1.332 ms
Remote clock offset: -0.257 ms

Below is generated by plot.py at 2018-02-28 12:46:28
Datalink statistics
-- Total of 3 flows:
Average throughput: 180.36 Mbit/s
95th percentile per-packet one-way delay: 19.196 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 97.05 Mbit/s
95th percentile per-packet one-way delay: 19.246 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 81.54 Mbit/s
95th percentile per-packet one-way delay: 19.050 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 87.53 Mbit/s
95th percentile per-packet one-way delay: 19.314 ms
Loss rate: 0.02%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-02-28 06:00:43

End at: 2018-02-28 06:01:13

Local clock offset: 1.229 ms

Remote clock offset: 0.651 ms

Below is generated by plot.py at 2018-02-28 12:46:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 236.58 Mbit/s

95th percentile per-packet one-way delay: 18.987 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 119.72 Mbit/s

95th percentile per-packet one-way delay: 19.047 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 106.25 Mbit/s

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

Loss rate: 0.03%

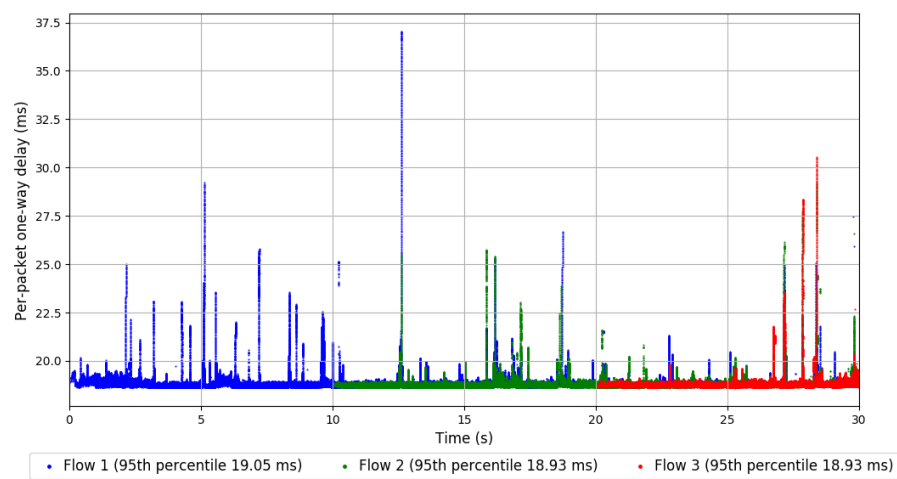
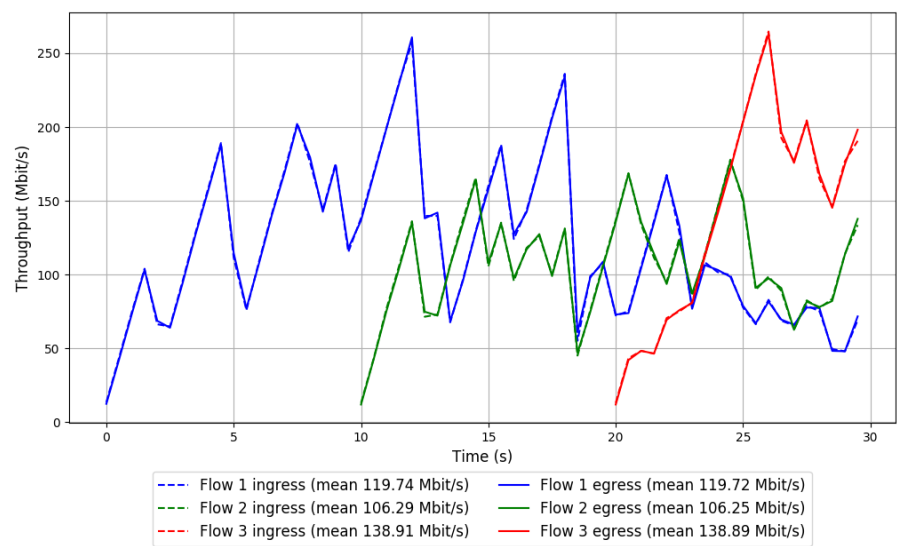
-- Flow 3:

Average throughput: 138.89 Mbit/s

95th percentile per-packet one-way delay: 18.932 ms

Loss rate: 0.01%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-02-28 06:29:49

End at: 2018-02-28 06:30:19

Local clock offset: 0.236 ms

Remote clock offset: 0.282 ms

Below is generated by plot.py at 2018-02-28 12:46:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 284.45 Mbit/s

95th percentile per-packet one-way delay: 18.741 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 150.38 Mbit/s

95th percentile per-packet one-way delay: 17.554 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 157.48 Mbit/s

95th percentile per-packet one-way delay: 18.795 ms

Loss rate: 0.01%

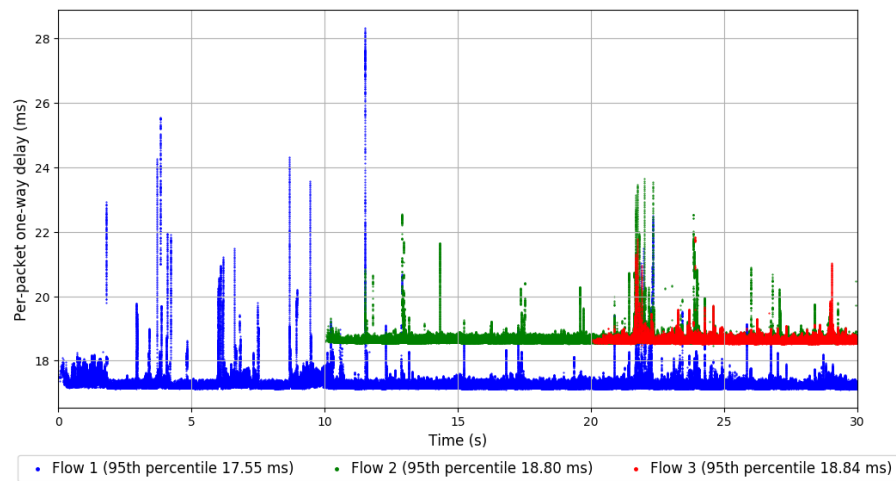
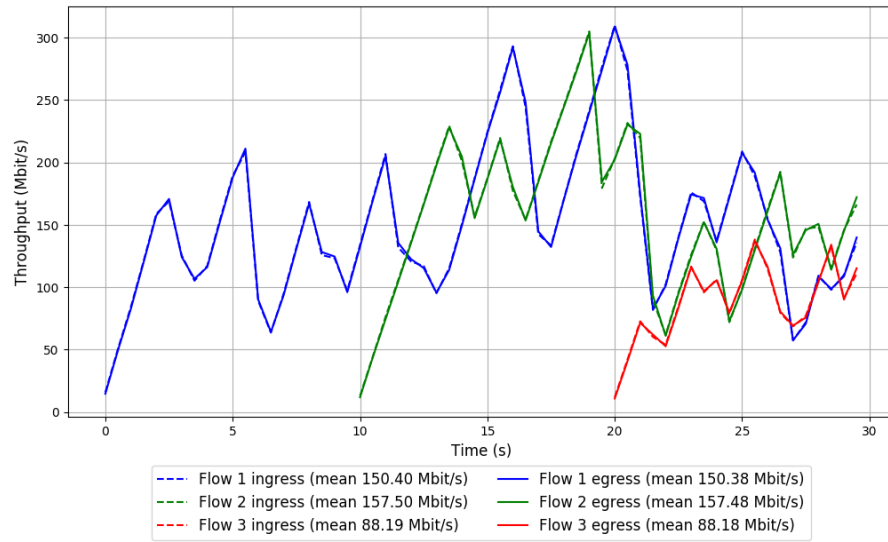
-- Flow 3:

Average throughput: 88.18 Mbit/s

95th percentile per-packet one-way delay: 18.841 ms

Loss rate: 0.02%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-02-28 06:58:50

End at: 2018-02-28 06:59:20

Local clock offset: -0.48 ms

Remote clock offset: 0.343 ms

Below is generated by plot.py at 2018-02-28 12:46:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 211.06 Mbit/s

95th percentile per-packet one-way delay: 19.234 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 126.15 Mbit/s

95th percentile per-packet one-way delay: 19.261 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 93.23 Mbit/s

95th percentile per-packet one-way delay: 19.206 ms

Loss rate: 0.02%

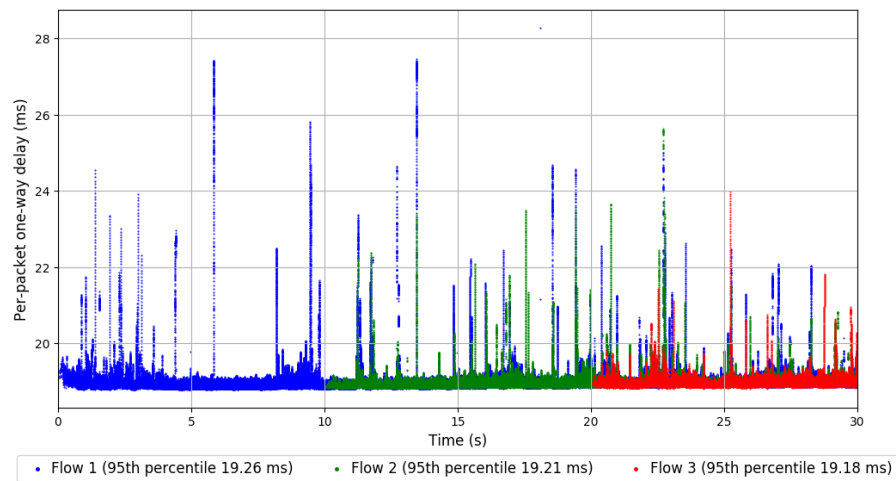
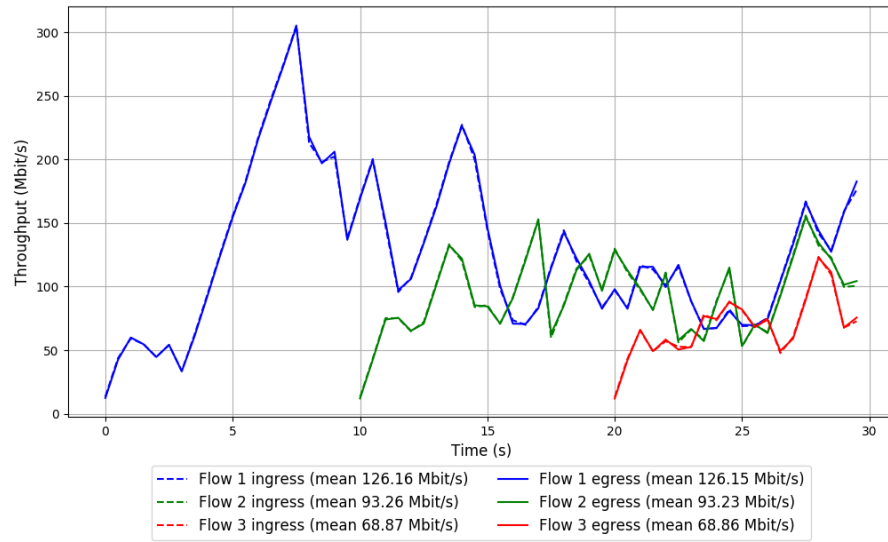
-- Flow 3:

Average throughput: 68.86 Mbit/s

95th percentile per-packet one-way delay: 19.184 ms

Loss rate: 0.02%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-02-28 07:28:06

End at: 2018-02-28 07:28:36

Local clock offset: 1.17 ms

Remote clock offset: 0.681 ms

Below is generated by plot.py at 2018-02-28 12:46:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 326.08 Mbit/s

95th percentile per-packet one-way delay: 19.113 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 153.04 Mbit/s

95th percentile per-packet one-way delay: 19.134 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 183.14 Mbit/s

95th percentile per-packet one-way delay: 19.110 ms

Loss rate: 0.01%

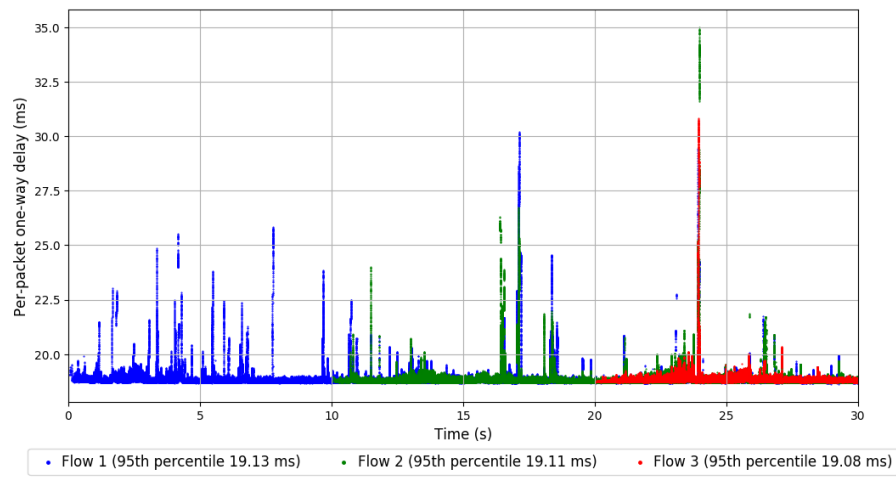
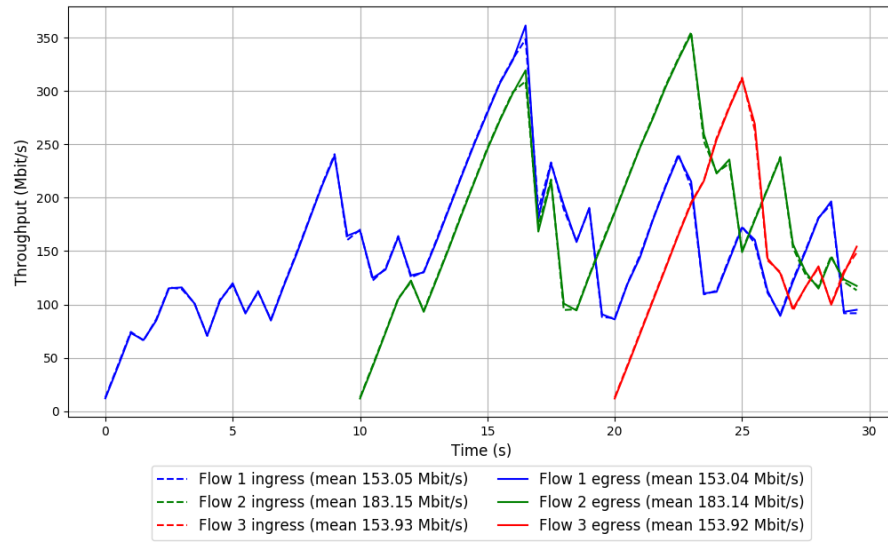
-- Flow 3:

Average throughput: 153.92 Mbit/s

95th percentile per-packet one-way delay: 19.079 ms

Loss rate: 0.01%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-02-28 07:57:14

End at: 2018-02-28 07:57:44

Local clock offset: 1.104 ms

Remote clock offset: 2.761 ms

Below is generated by plot.py at 2018-02-28 12:46:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.03 Mbit/s

95th percentile per-packet one-way delay: 19.173 ms

Loss rate: 0.11%

-- Flow 1:

Average throughput: 52.83 Mbit/s

95th percentile per-packet one-way delay: 18.170 ms

Loss rate: 0.09%

-- Flow 2:

Average throughput: 41.82 Mbit/s

95th percentile per-packet one-way delay: 19.648 ms

Loss rate: 0.12%

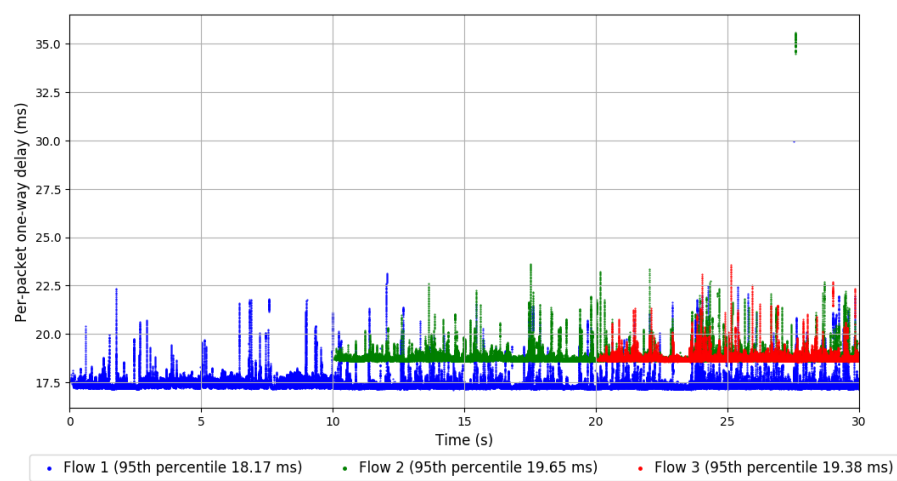
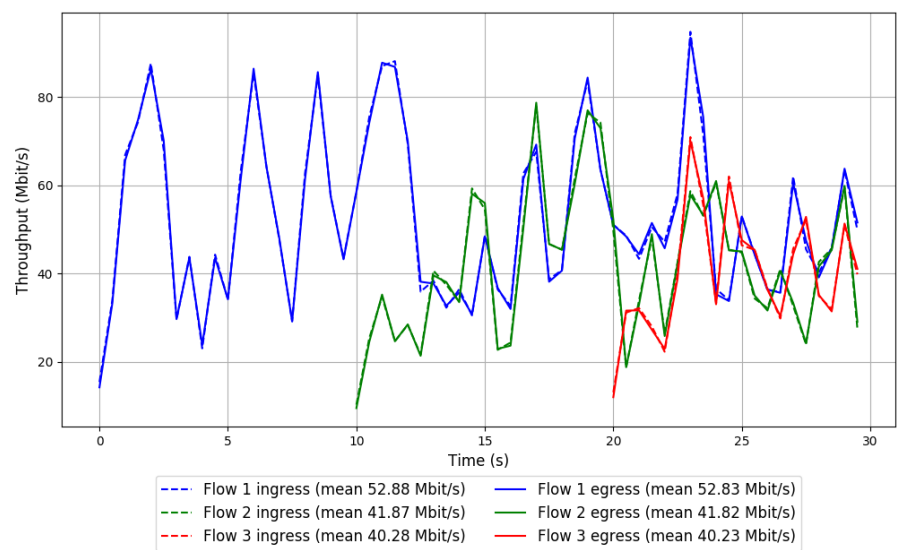
-- Flow 3:

Average throughput: 40.23 Mbit/s

95th percentile per-packet one-way delay: 19.380 ms

Loss rate: 0.13%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-02-28 08:26:05

End at: 2018-02-28 08:26:35

Local clock offset: 0.839 ms

Remote clock offset: 0.062 ms

Below is generated by plot.py at 2018-02-28 12:46:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 110.62 Mbit/s

95th percentile per-packet one-way delay: 19.526 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 60.31 Mbit/s

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

Loss rate: 0.06%

-- Flow 2:

Average throughput: 51.74 Mbit/s

95th percentile per-packet one-way delay: 19.424 ms

Loss rate: 0.08%

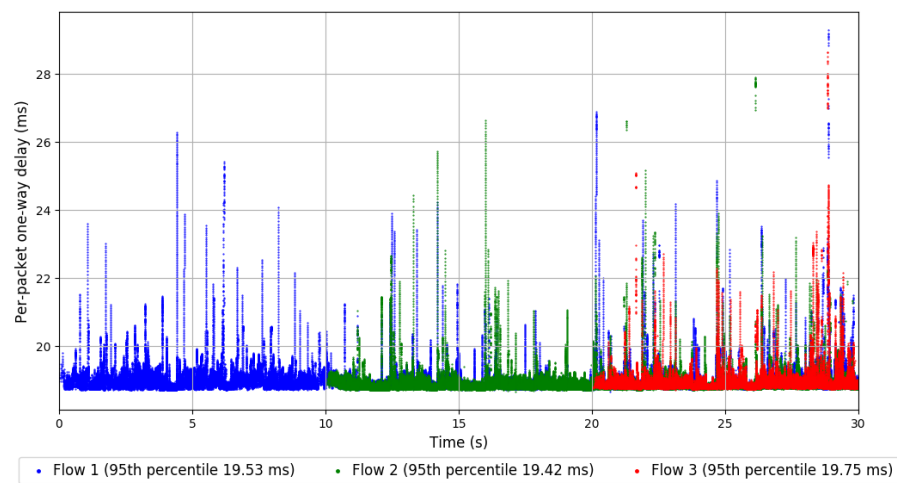
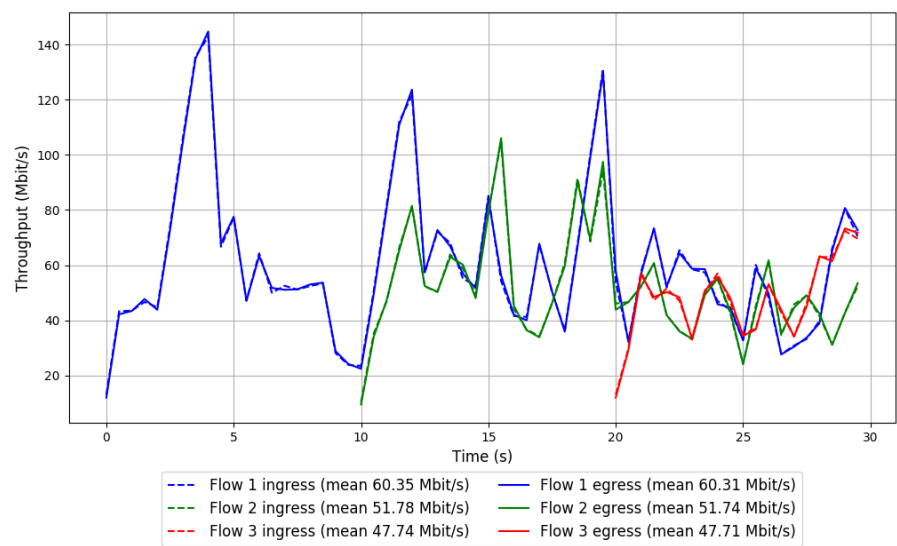
-- Flow 3:

Average throughput: 47.71 Mbit/s

95th percentile per-packet one-way delay: 19.754 ms

Loss rate: 0.09%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-02-28 08:54:58

End at: 2018-02-28 08:55:28

Local clock offset: 0.705 ms

Remote clock offset: 0.675 ms

Below is generated by plot.py at 2018-02-28 12:46:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 143.84 Mbit/s

95th percentile per-packet one-way delay: 19.396 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 72.04 Mbit/s

95th percentile per-packet one-way delay: 19.387 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 71.94 Mbit/s

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

Loss rate: 0.03%

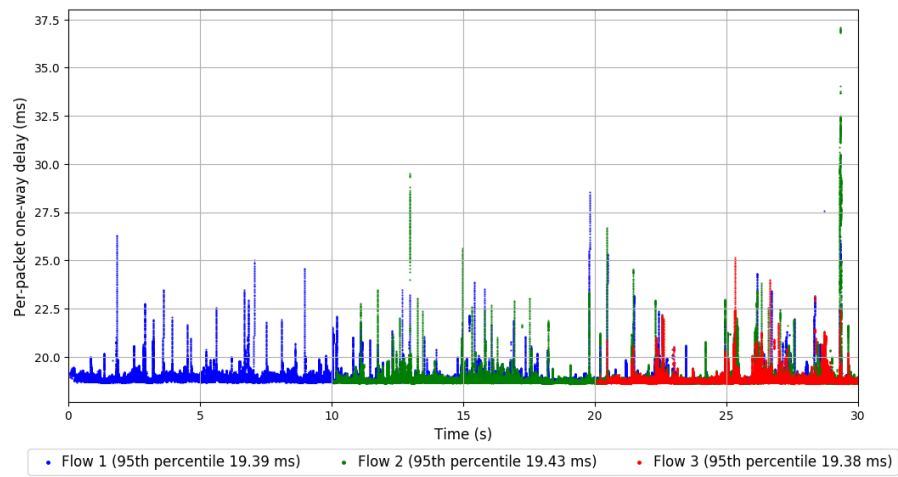
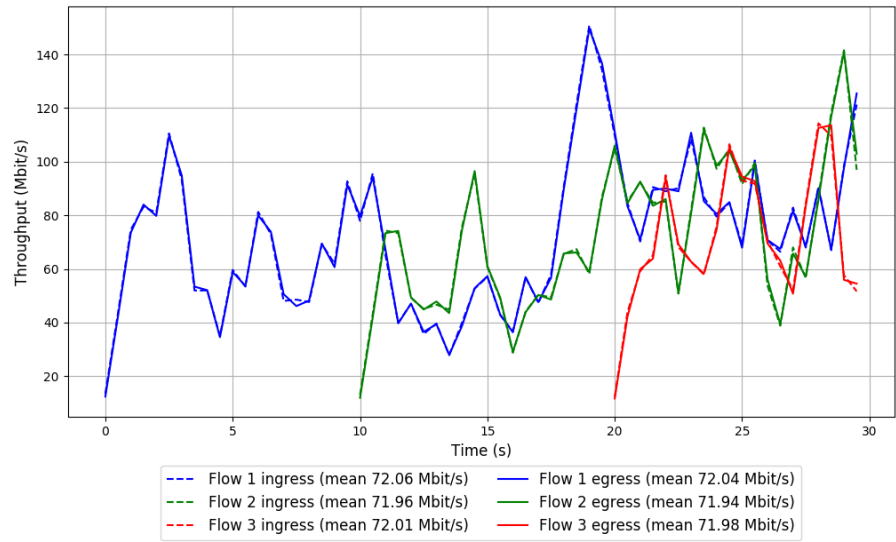
-- Flow 3:

Average throughput: 71.98 Mbit/s

95th percentile per-packet one-way delay: 19.378 ms

Loss rate: 0.03%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-02-28 09:27:47

End at: 2018-02-28 09:28:17

Local clock offset: 0.766 ms

Remote clock offset: 0.214 ms

Below is generated by plot.py at 2018-02-28 12:46:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 122.68 Mbit/s

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

Loss rate: 0.06%

-- Flow 1:

Average throughput: 60.20 Mbit/s

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

Loss rate: 0.07%

-- Flow 2:

Average throughput: 68.22 Mbit/s

95th percentile per-packet one-way delay: 18.302 ms

Loss rate: 0.05%

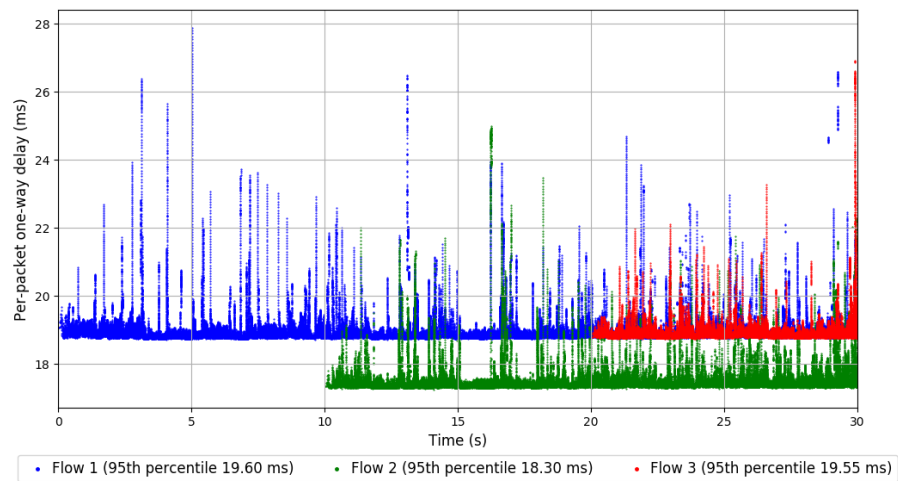
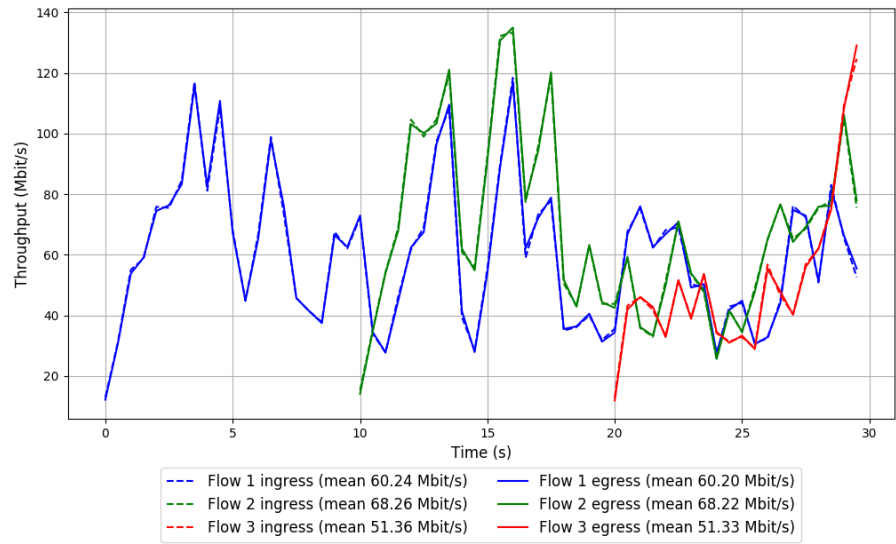
-- Flow 3:

Average throughput: 51.33 Mbit/s

95th percentile per-packet one-way delay: 19.545 ms

Loss rate: 0.05%

Run 10: Report of LEDBAT — Data Link

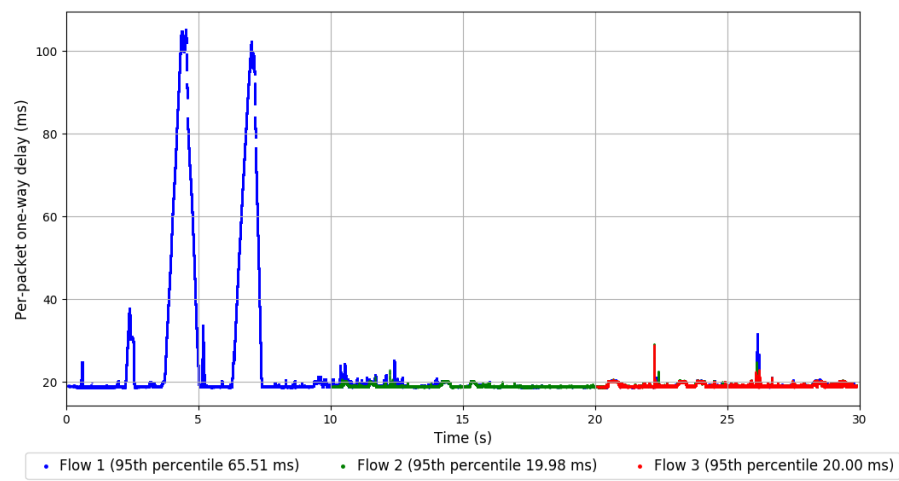
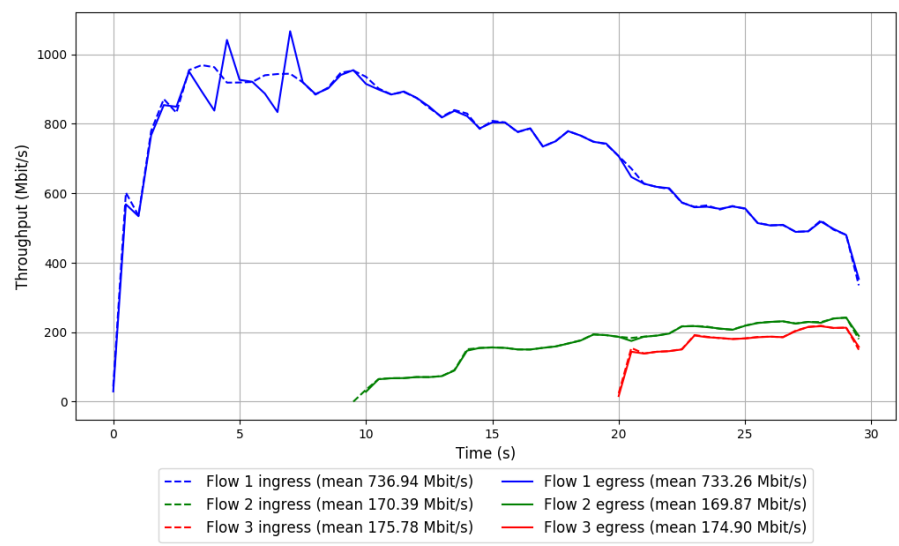


Run 1: Statistics of PCC

Start at: 2018-02-28 05:15:02
End at: 2018-02-28 05:15:32
Local clock offset: 1.527 ms
Remote clock offset: -4.537 ms

Below is generated by plot.py at 2018-02-28 12:54:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 903.80 Mbit/s
95th percentile per-packet one-way delay: 55.327 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 733.26 Mbit/s
95th percentile per-packet one-way delay: 65.508 ms
Loss rate: 0.50%
-- Flow 2:
Average throughput: 169.87 Mbit/s
95th percentile per-packet one-way delay: 19.979 ms
Loss rate: 0.31%
-- Flow 3:
Average throughput: 174.90 Mbit/s
95th percentile per-packet one-way delay: 20.005 ms
Loss rate: 0.50%

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2018-02-28 05:44:05

End at: 2018-02-28 05:44:35

Local clock offset: 1.528 ms

Remote clock offset: 1.362 ms

Below is generated by plot.py at 2018-02-28 12:55:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 916.54 Mbit/s

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

Loss rate: 0.40%

-- Flow 1:

Average throughput: 745.01 Mbit/s

95th percentile per-packet one-way delay: 18.543 ms

Loss rate: 0.42%

-- Flow 2:

Average throughput: 220.80 Mbit/s

95th percentile per-packet one-way delay: 19.916 ms

Loss rate: 0.24%

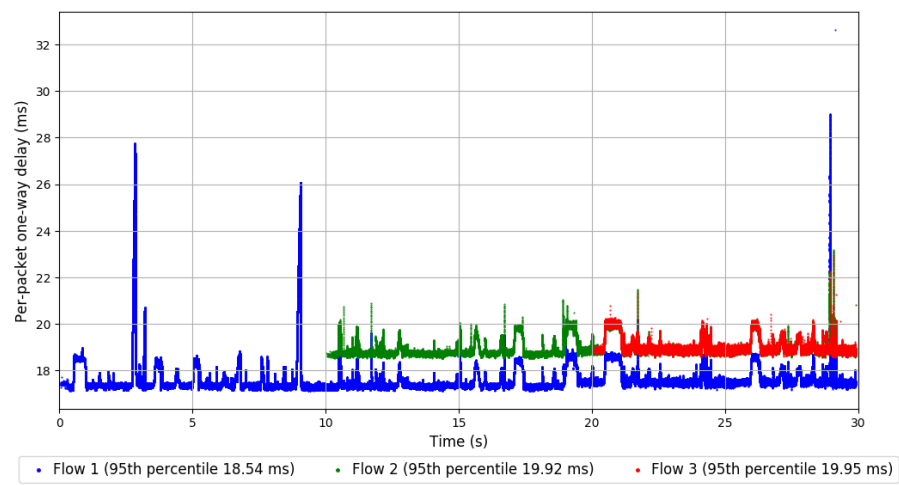
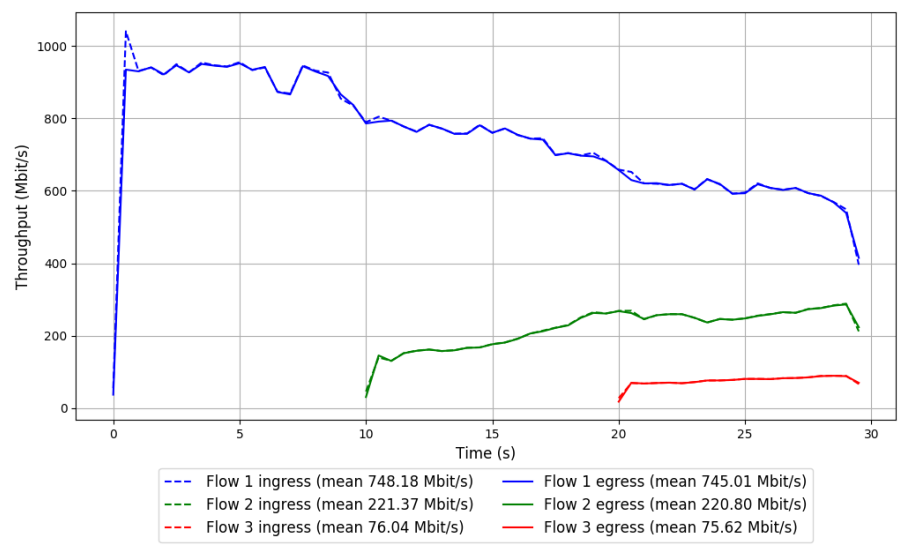
-- Flow 3:

Average throughput: 75.62 Mbit/s

95th percentile per-packet one-way delay: 19.955 ms

Loss rate: 0.56%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2018-02-28 06:13:19

End at: 2018-02-28 06:13:49

Local clock offset: 1.19 ms

Remote clock offset: 0.306 ms

Below is generated by plot.py at 2018-02-28 12:56:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 888.67 Mbit/s

95th percentile per-packet one-way delay: 18.689 ms

Loss rate: 0.46%

-- Flow 1:

Average throughput: 696.83 Mbit/s

95th percentile per-packet one-way delay: 18.630 ms

Loss rate: 0.42%

-- Flow 2:

Average throughput: 252.68 Mbit/s

95th percentile per-packet one-way delay: 18.624 ms

Loss rate: 0.60%

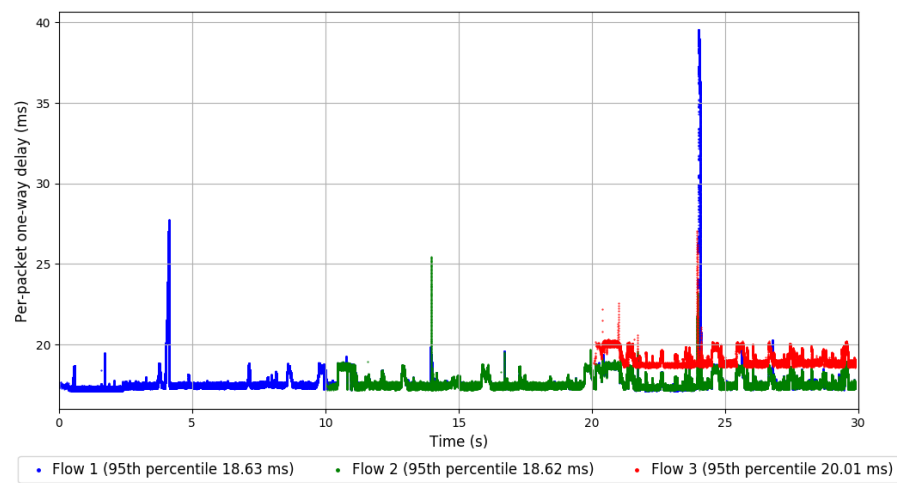
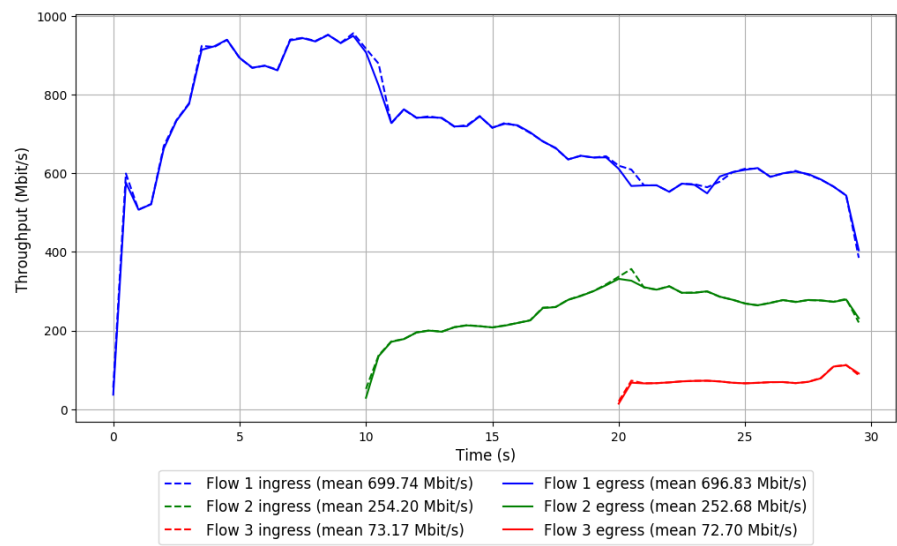
-- Flow 3:

Average throughput: 72.70 Mbit/s

95th percentile per-packet one-way delay: 20.013 ms

Loss rate: 0.65%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2018-02-28 06:42:27

End at: 2018-02-28 06:42:57

Local clock offset: -0.477 ms

Remote clock offset: 0.214 ms

Below is generated by plot.py at 2018-02-28 12:56:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 872.19 Mbit/s

95th percentile per-packet one-way delay: 21.329 ms

Loss rate: 0.53%

-- Flow 1:

Average throughput: 799.73 Mbit/s

95th percentile per-packet one-way delay: 21.697 ms

Loss rate: 0.50%

-- Flow 2:

Average throughput: 63.51 Mbit/s

95th percentile per-packet one-way delay: 19.976 ms

Loss rate: 0.87%

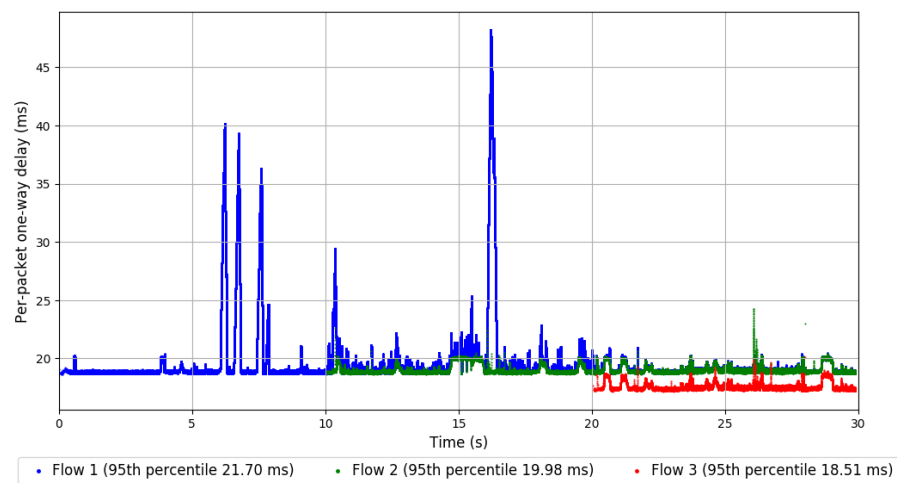
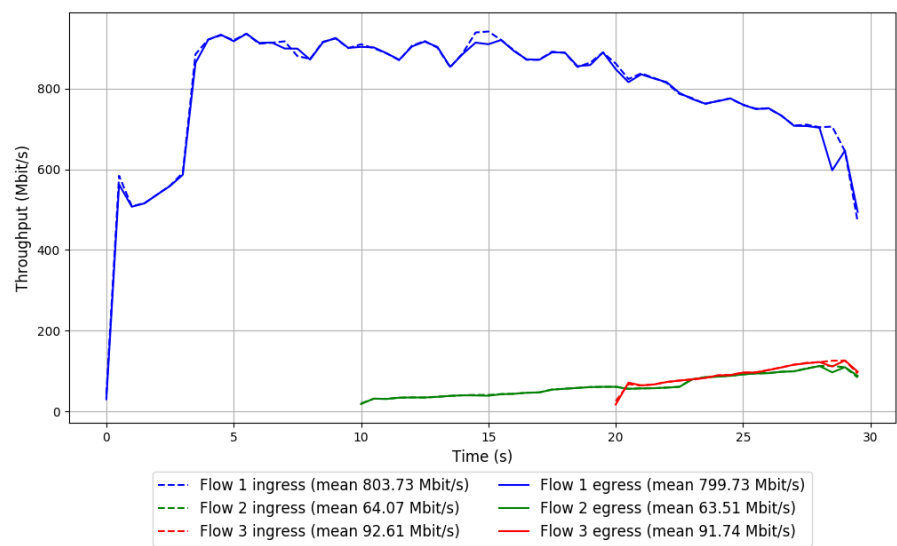
-- Flow 3:

Average throughput: 91.74 Mbit/s

95th percentile per-packet one-way delay: 18.508 ms

Loss rate: 0.94%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2018-02-28 07:11:25

End at: 2018-02-28 07:11:55

Local clock offset: 0.789 ms

Remote clock offset: 0.423 ms

Below is generated by plot.py at 2018-02-28 12:57:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 899.98 Mbit/s

95th percentile per-packet one-way delay: 20.140 ms

Loss rate: 0.25%

-- Flow 1:

Average throughput: 766.23 Mbit/s

95th percentile per-packet one-way delay: 20.664 ms

Loss rate: 0.23%

-- Flow 2:

Average throughput: 159.49 Mbit/s

95th percentile per-packet one-way delay: 20.041 ms

Loss rate: 0.31%

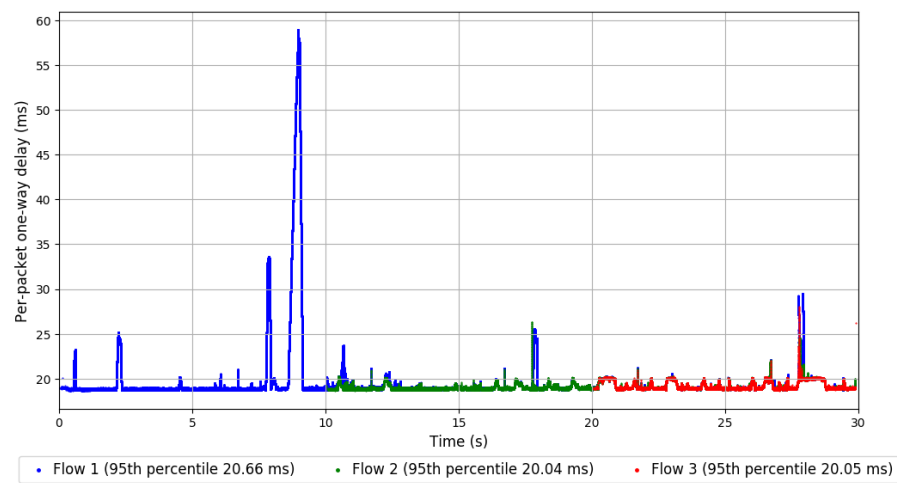
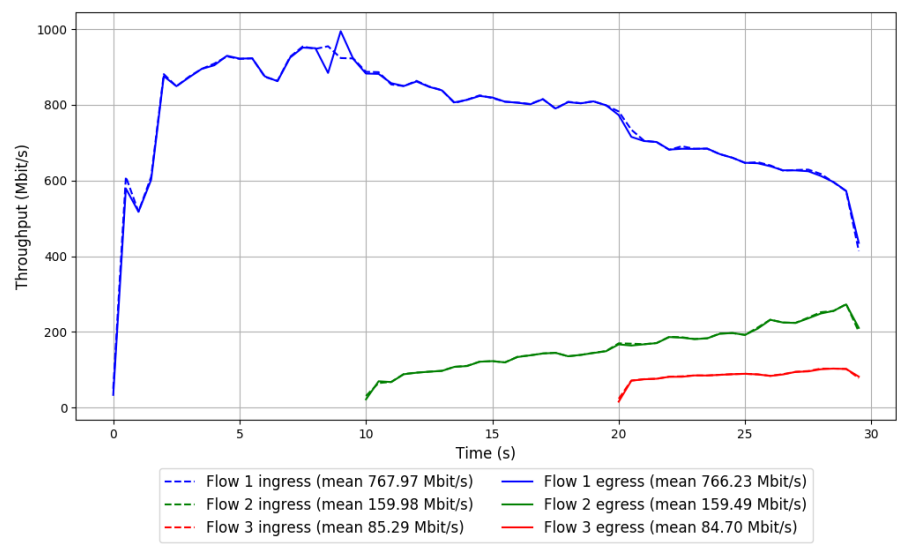
-- Flow 3:

Average throughput: 84.70 Mbit/s

95th percentile per-packet one-way delay: 20.048 ms

Loss rate: 0.62%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2018-02-28 07:40:48

End at: 2018-02-28 07:41:18

Local clock offset: 1.033 ms

Remote clock offset: 1.67 ms

Below is generated by plot.py at 2018-02-28 12:57:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 910.33 Mbit/s

95th percentile per-packet one-way delay: 32.137 ms

Loss rate: 0.42%

-- Flow 1:

Average throughput: 693.57 Mbit/s

95th percentile per-packet one-way delay: 39.100 ms

Loss rate: 0.47%

-- Flow 2:

Average throughput: 306.50 Mbit/s

95th percentile per-packet one-way delay: 19.907 ms

Loss rate: 0.26%

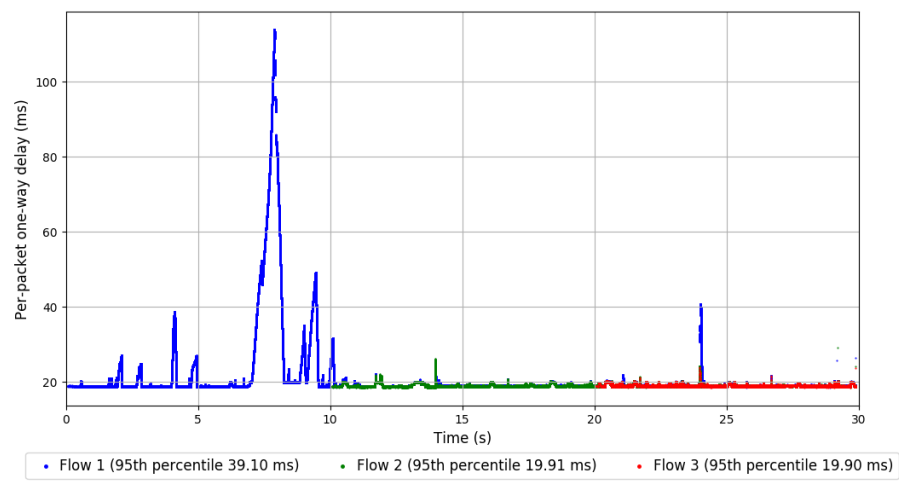
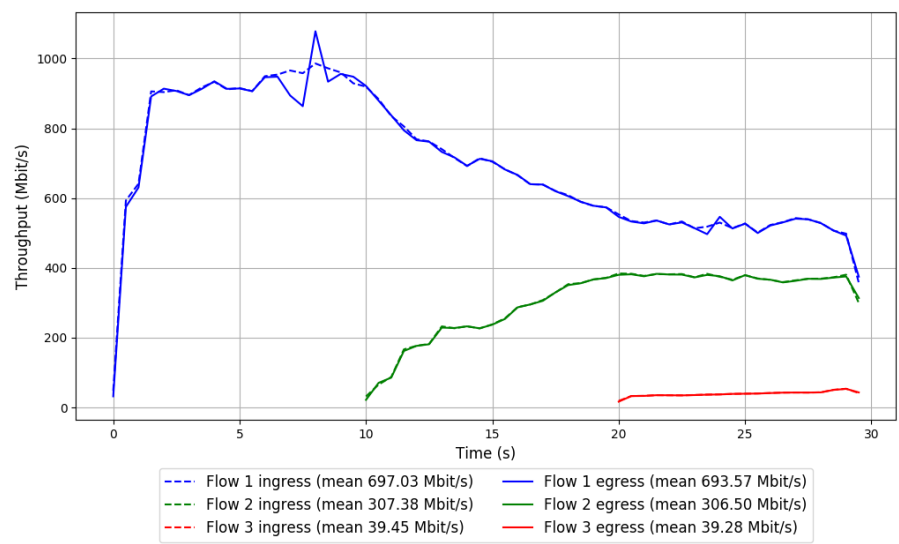
-- Flow 3:

Average throughput: 39.28 Mbit/s

95th percentile per-packet one-way delay: 19.901 ms

Loss rate: 0.37%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2018-02-28 08:09:36

End at: 2018-02-28 08:10:06

Local clock offset: 6.452 ms

Remote clock offset: 2.752 ms

Below is generated by plot.py at 2018-02-28 12:59:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 913.24 Mbit/s

95th percentile per-packet one-way delay: 14.654 ms

Loss rate: 0.40%

-- Flow 1:

Average throughput: 827.45 Mbit/s

95th percentile per-packet one-way delay: 14.195 ms

Loss rate: 0.41%

-- Flow 2:

Average throughput: 104.50 Mbit/s

95th percentile per-packet one-way delay: 14.684 ms

Loss rate: 0.32%

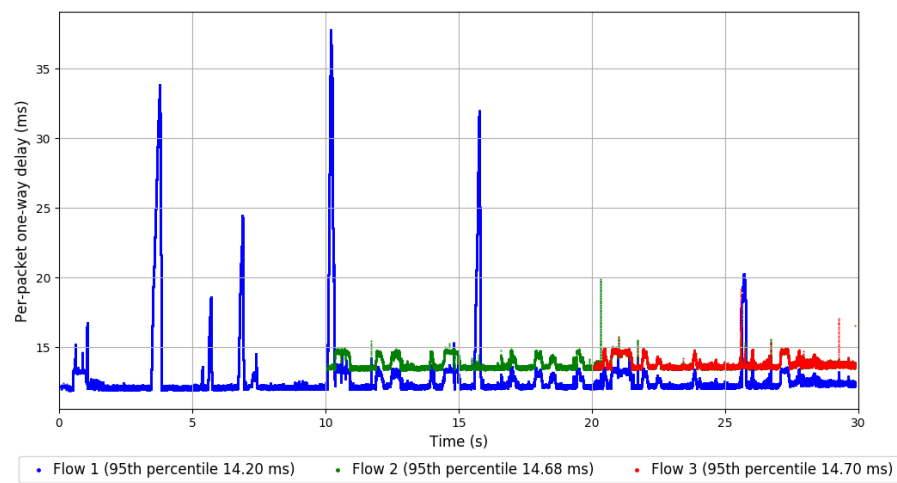
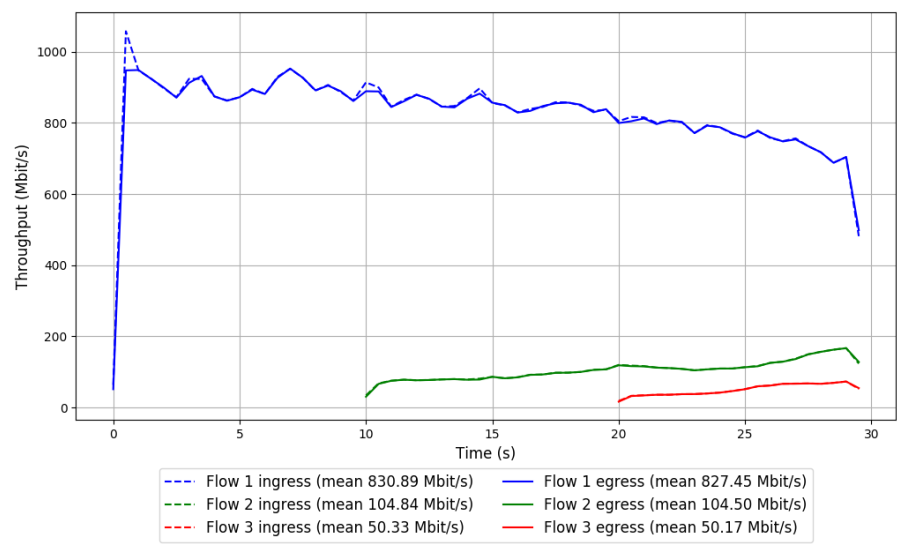
-- Flow 3:

Average throughput: 50.17 Mbit/s

95th percentile per-packet one-way delay: 14.702 ms

Loss rate: 0.29%

Run 7: Report of PCC — Data Link

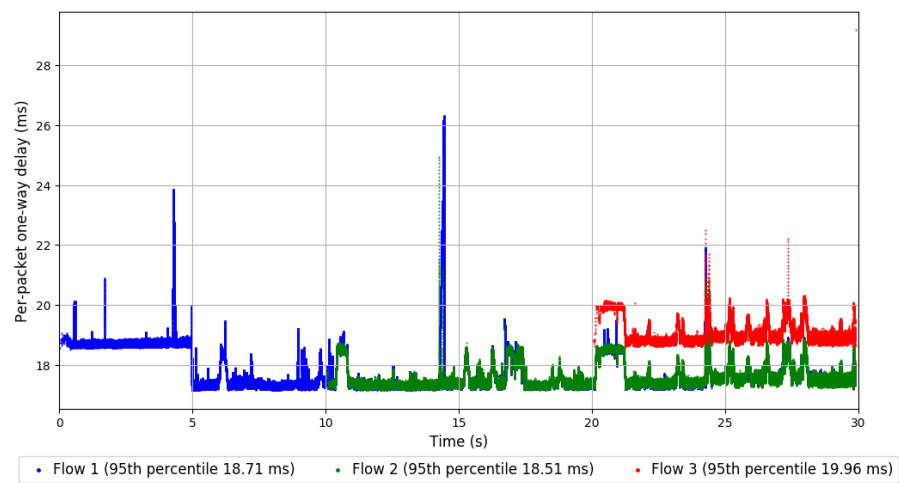
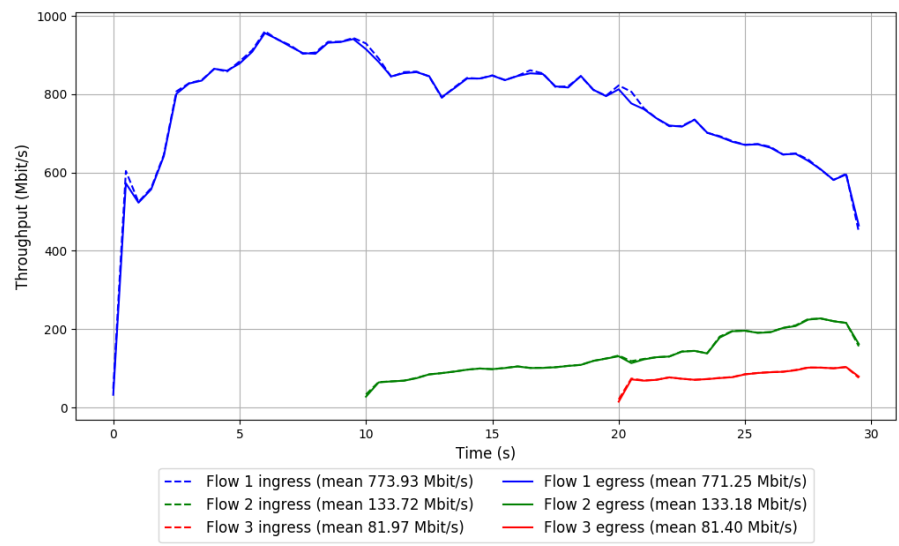


Run 8: Statistics of PCC

Start at: 2018-02-28 08:38:27
End at: 2018-02-28 08:38:57
Local clock offset: 0.888 ms
Remote clock offset: -0.675 ms

Below is generated by plot.py at 2018-02-28 12:59:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 886.34 Mbit/s
95th percentile per-packet one-way delay: 18.786 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 771.25 Mbit/s
95th percentile per-packet one-way delay: 18.710 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 133.18 Mbit/s
95th percentile per-packet one-way delay: 18.512 ms
Loss rate: 0.41%
-- Flow 3:
Average throughput: 81.40 Mbit/s
95th percentile per-packet one-way delay: 19.962 ms
Loss rate: 0.59%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2018-02-28 09:07:24

End at: 2018-02-28 09:07:54

Local clock offset: 0.66 ms

Remote clock offset: 1.019 ms

Below is generated by plot.py at 2018-02-28 13:07:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 913.09 Mbit/s

95th percentile per-packet one-way delay: 25.020 ms

Loss rate: 0.45%

-- Flow 1:

Average throughput: 821.37 Mbit/s

95th percentile per-packet one-way delay: 26.015 ms

Loss rate: 0.46%

-- Flow 2:

Average throughput: 99.03 Mbit/s

95th percentile per-packet one-way delay: 20.019 ms

Loss rate: 0.33%

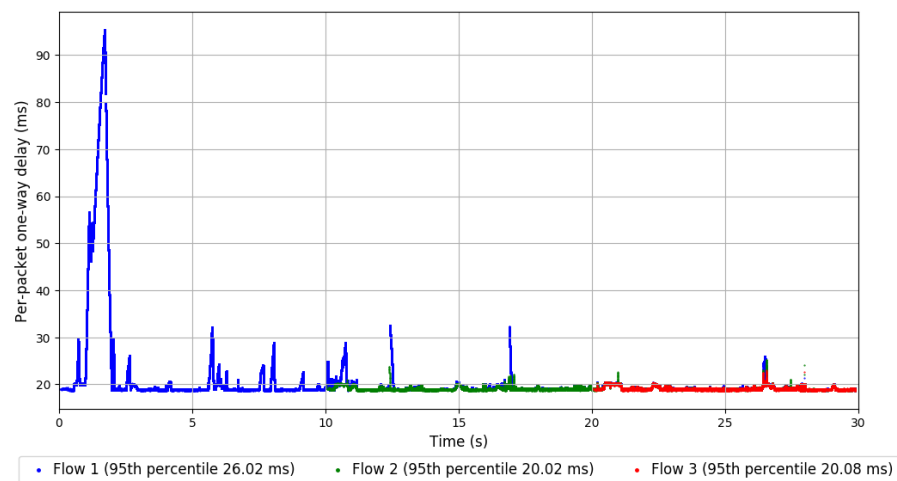
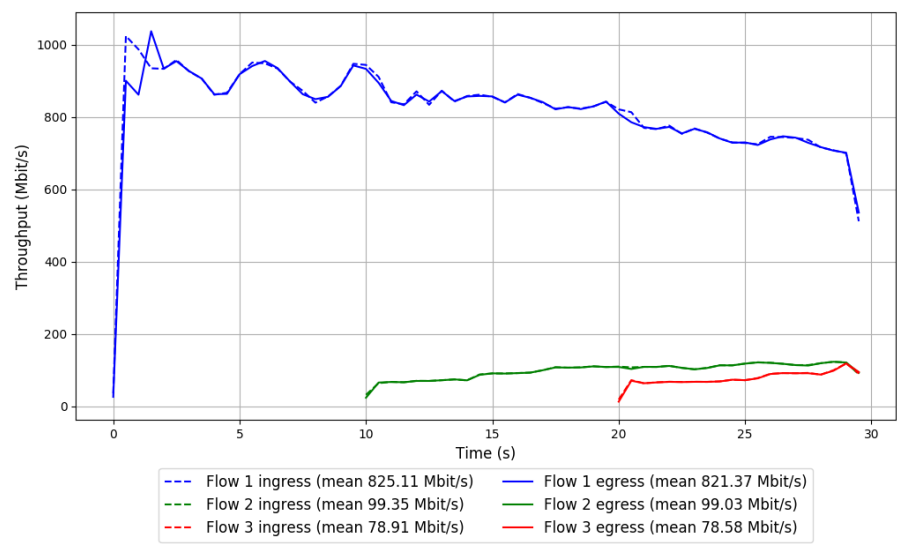
-- Flow 3:

Average throughput: 78.58 Mbit/s

95th percentile per-packet one-way delay: 20.084 ms

Loss rate: 0.44%

Run 9: Report of PCC — Data Link

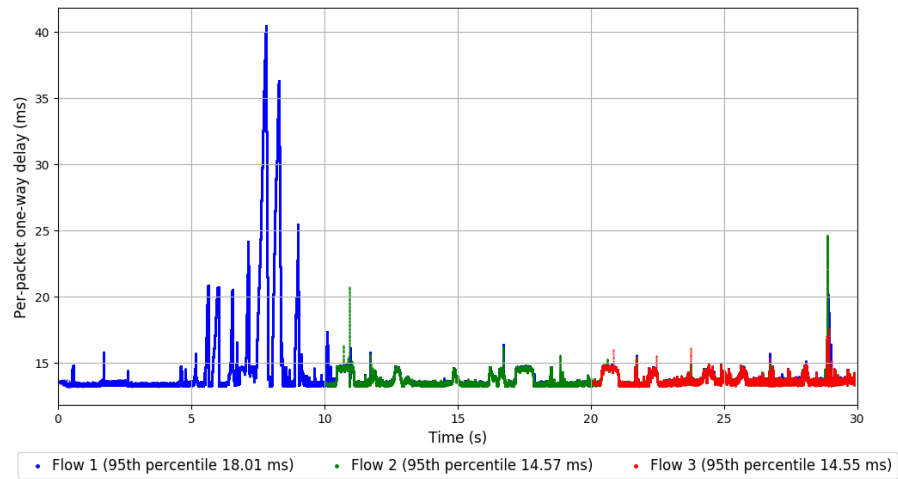
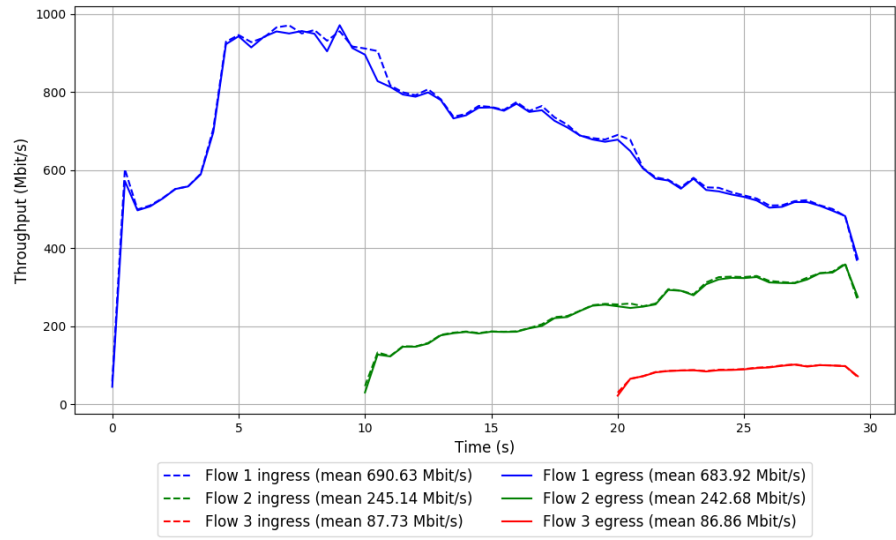


Run 10: Statistics of PCC

Start at: 2018-02-28 09:40:11
End at: 2018-02-28 09:40:41
Local clock offset: 6.322 ms
Remote clock offset: -0.129 ms

Below is generated by plot.py at 2018-02-28 13:07:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 873.90 Mbit/s
95th percentile per-packet one-way delay: 16.101 ms
Loss rate: 0.98%
-- Flow 1:
Average throughput: 683.92 Mbit/s
95th percentile per-packet one-way delay: 18.009 ms
Loss rate: 0.97%
-- Flow 2:
Average throughput: 242.68 Mbit/s
95th percentile per-packet one-way delay: 14.573 ms
Loss rate: 1.00%
-- Flow 3:
Average throughput: 86.86 Mbit/s
95th percentile per-packet one-way delay: 14.555 ms
Loss rate: 0.99%

Run 10: Report of PCC — Data Link

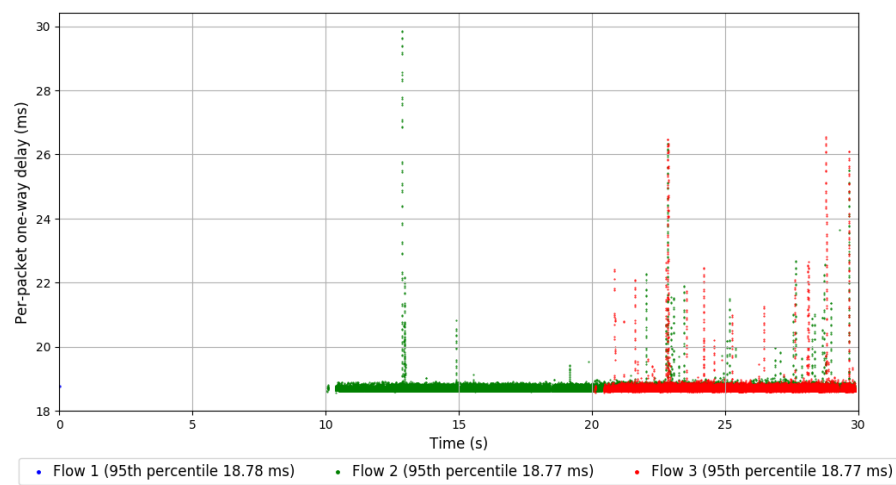
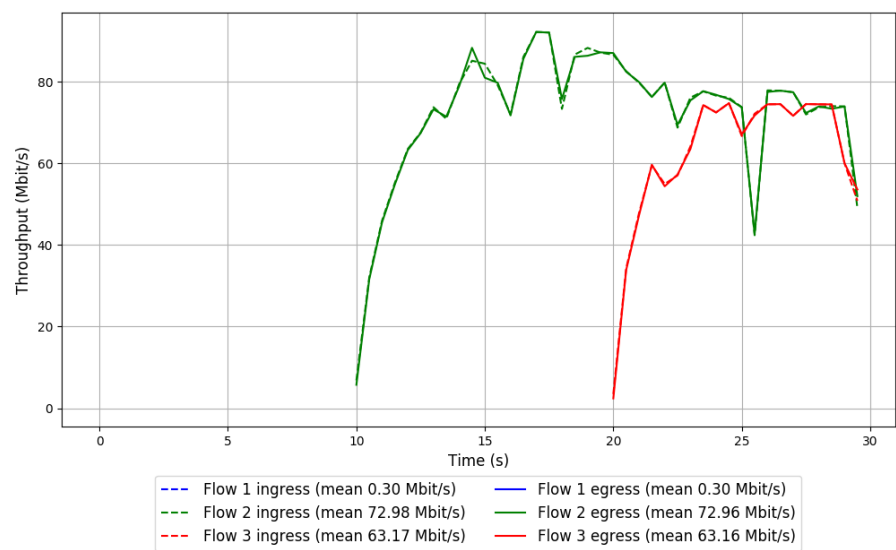


Run 1: Statistics of QUIC Cubic

Start at: 2018-02-28 05:01:11
End at: 2018-02-28 05:01:41
Local clock offset: 1.473 ms
Remote clock offset: -4.657 ms

Below is generated by plot.py at 2018-02-28 13:07:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 69.20 Mbit/s
95th percentile per-packet one-way delay: 18.775 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 0.30 Mbit/s
95th percentile per-packet one-way delay: 18.781 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 72.96 Mbit/s
95th percentile per-packet one-way delay: 18.775 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 63.16 Mbit/s
95th percentile per-packet one-way delay: 18.775 ms
Loss rate: 0.01%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-02-28 05:30:11

End at: 2018-02-28 05:30:41

Local clock offset: 1.401 ms

Remote clock offset: -0.5 ms

Below is generated by plot.py at 2018-02-28 13:07:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 126.32 Mbit/s

95th percentile per-packet one-way delay: 18.833 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 68.65 Mbit/s

95th percentile per-packet one-way delay: 17.304 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 62.47 Mbit/s

95th percentile per-packet one-way delay: 18.726 ms

Loss rate: 0.02%

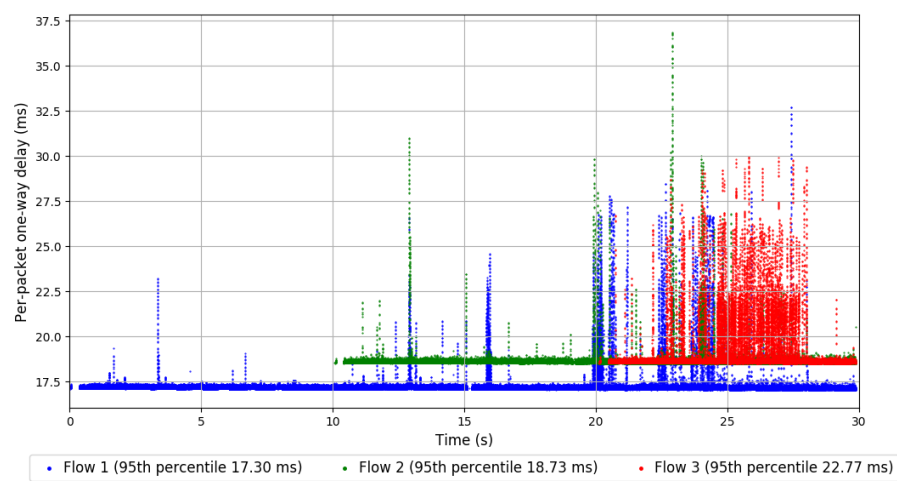
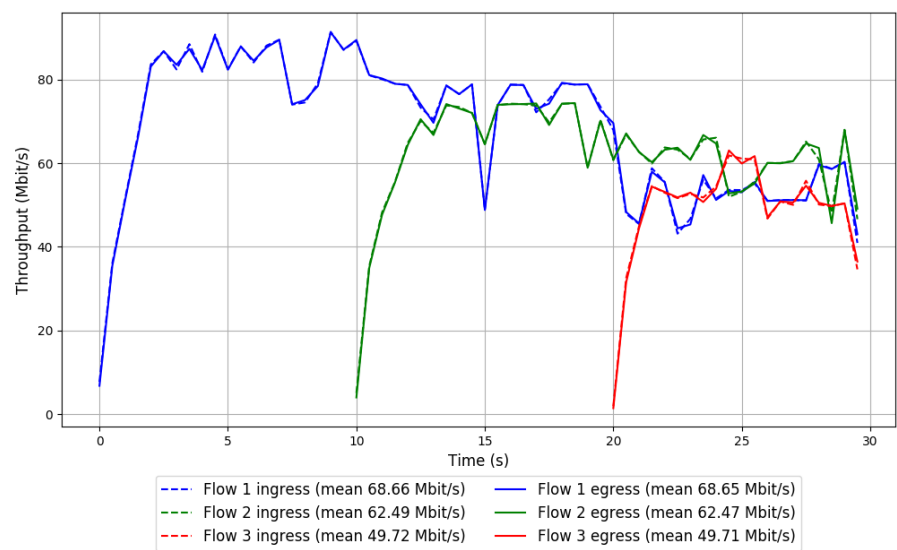
-- Flow 3:

Average throughput: 49.71 Mbit/s

95th percentile per-packet one-way delay: 22.772 ms

Loss rate: 0.02%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-02-28 05:59:20

End at: 2018-02-28 05:59:50

Local clock offset: 1.141 ms

Remote clock offset: 0.822 ms

Below is generated by plot.py at 2018-02-28 13:07:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 125.32 Mbit/s

95th percentile per-packet one-way delay: 19.459 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 68.59 Mbit/s

95th percentile per-packet one-way delay: 19.586 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 59.56 Mbit/s

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

Loss rate: 0.01%

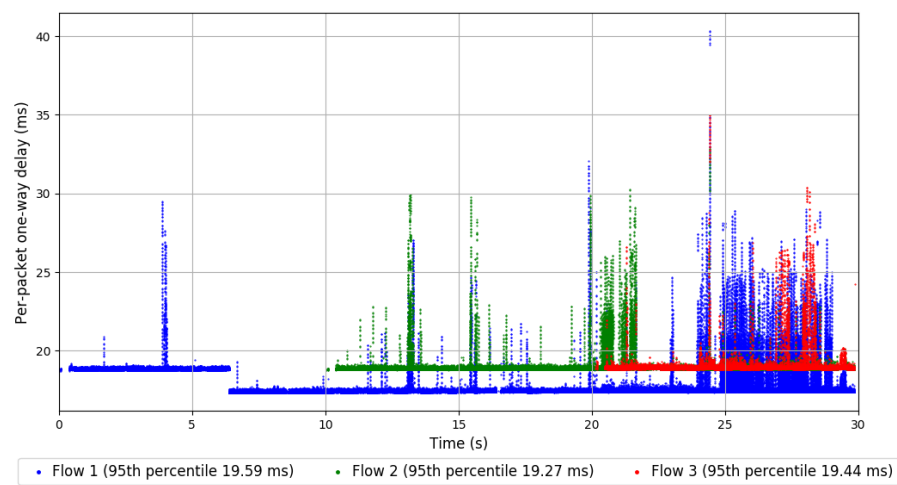
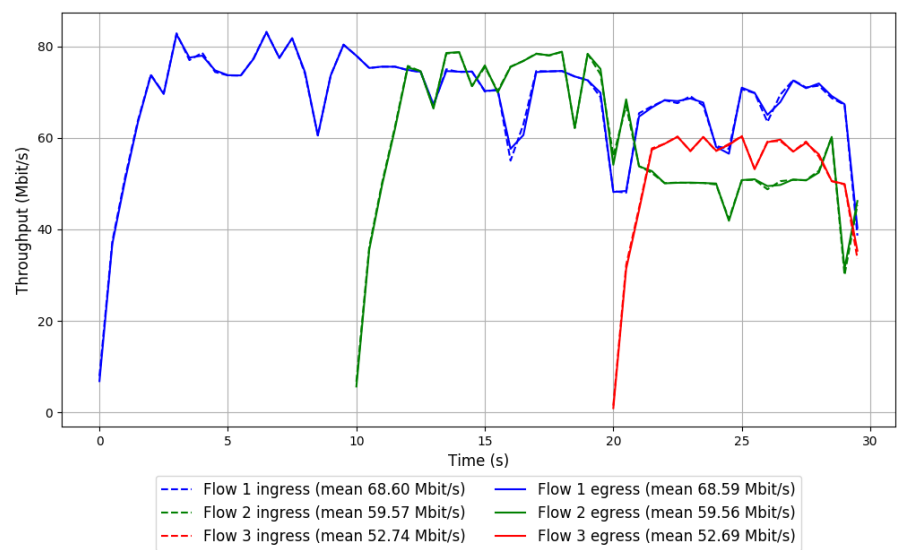
-- Flow 3:

Average throughput: 52.69 Mbit/s

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

Loss rate: 0.02%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-02-28 06:28:25

End at: 2018-02-28 06:28:55

Local clock offset: 0.358 ms

Remote clock offset: 0.323 ms

Below is generated by plot.py at 2018-02-28 13:07:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 125.12 Mbit/s

95th percentile per-packet one-way delay: 20.159 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 65.56 Mbit/s

95th percentile per-packet one-way delay: 17.275 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 60.48 Mbit/s

95th percentile per-packet one-way delay: 18.730 ms

Loss rate: 0.00%

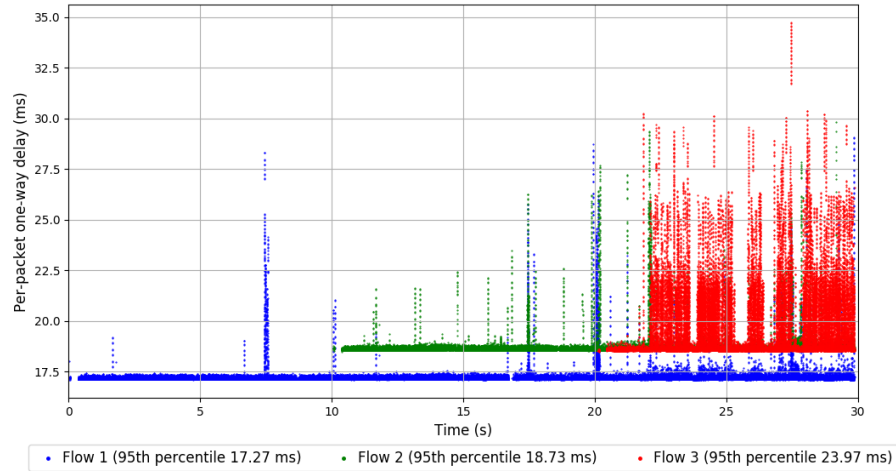
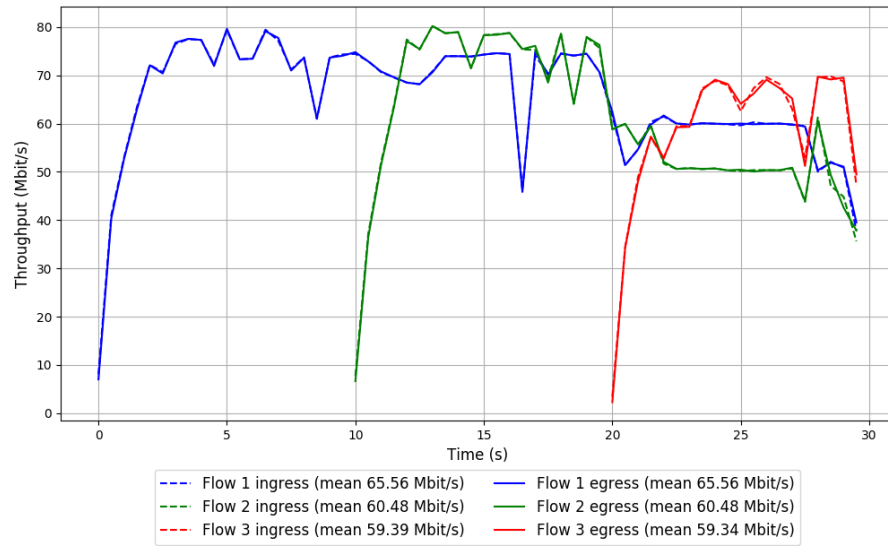
-- Flow 3:

Average throughput: 59.34 Mbit/s

95th percentile per-packet one-way delay: 23.969 ms

Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-02-28 06:57:26

End at: 2018-02-28 06:57:56

Local clock offset: -0.81 ms

Remote clock offset: 0.384 ms

Below is generated by plot.py at 2018-02-28 13:07:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 124.77 Mbit/s

95th percentile per-packet one-way delay: 19.162 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 67.98 Mbit/s

95th percentile per-packet one-way delay: 19.162 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 59.68 Mbit/s

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

Loss rate: 0.02%

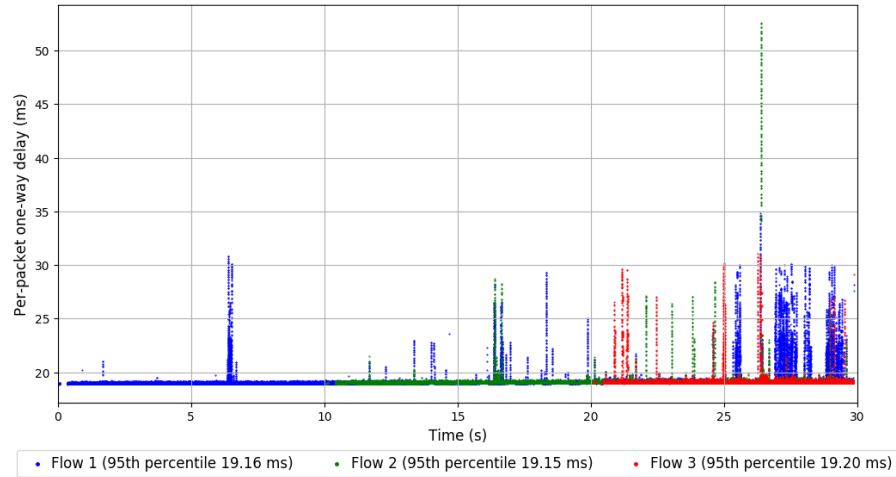
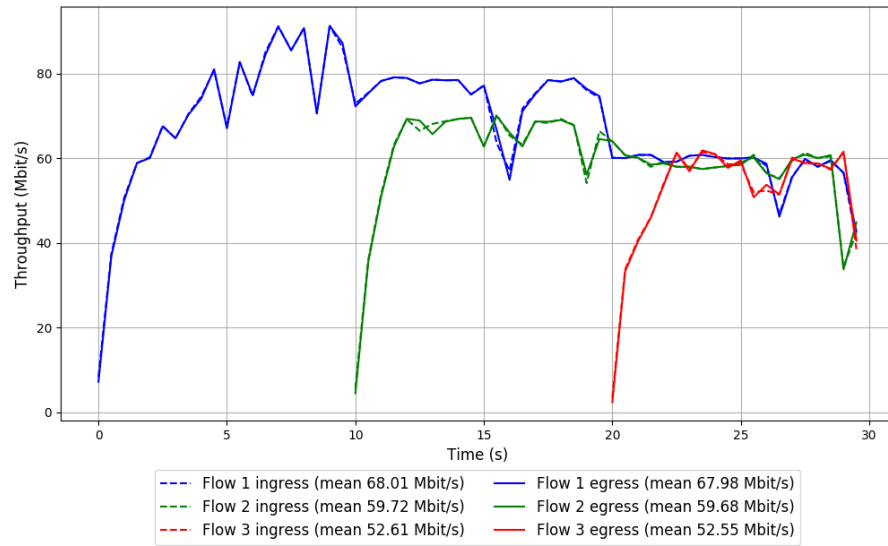
-- Flow 3:

Average throughput: 52.55 Mbit/s

95th percentile per-packet one-way delay: 19.198 ms

Loss rate: 0.03%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-02-28 07:26:42

End at: 2018-02-28 07:27:12

Local clock offset: 1.155 ms

Remote clock offset: 0.541 ms

Below is generated by plot.py at 2018-02-28 13:07:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 123.86 Mbit/s

95th percentile per-packet one-way delay: 19.298 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 67.43 Mbit/s

95th percentile per-packet one-way delay: 20.504 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 57.42 Mbit/s

95th percentile per-packet one-way delay: 18.708 ms

Loss rate: 0.00%

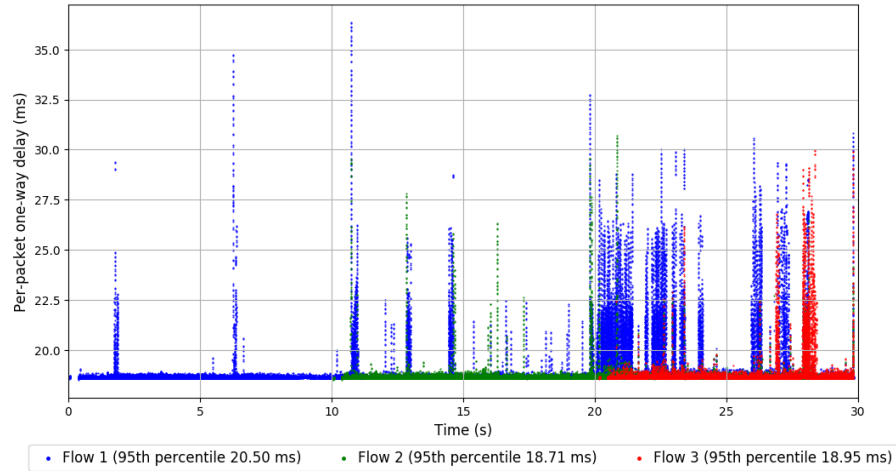
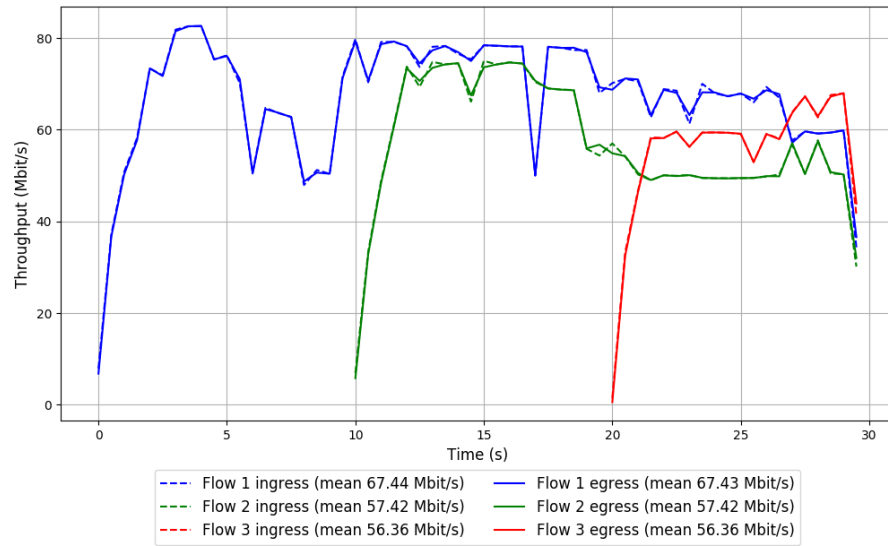
-- Flow 3:

Average throughput: 56.36 Mbit/s

95th percentile per-packet one-way delay: 18.954 ms

Loss rate: 0.00%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-02-28 07:55:51

End at: 2018-02-28 07:56:21

Local clock offset: 1.097 ms

Remote clock offset: 2.715 ms

Below is generated by plot.py at 2018-02-28 13:07:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 100.75 Mbit/s

95th percentile per-packet one-way delay: 18.834 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 56.93 Mbit/s

95th percentile per-packet one-way delay: 18.776 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 48.50 Mbit/s

95th percentile per-packet one-way delay: 18.836 ms

Loss rate: 0.10%

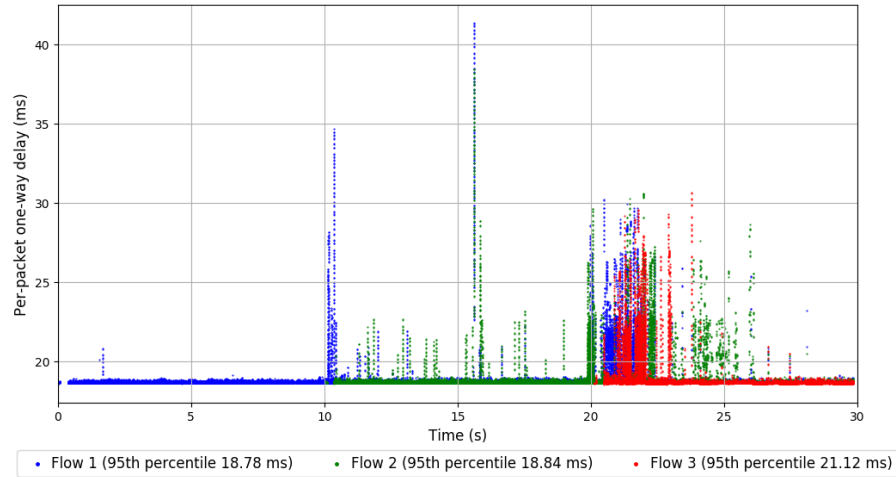
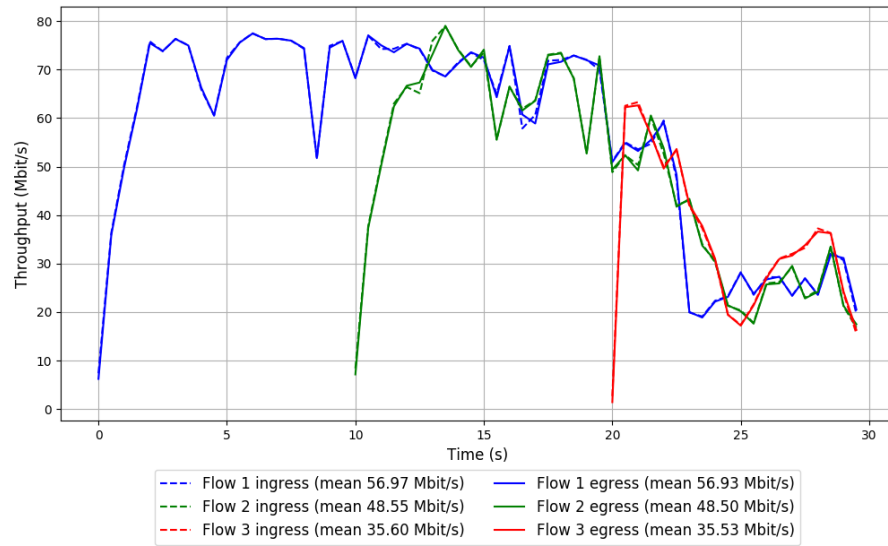
-- Flow 3:

Average throughput: 35.53 Mbit/s

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

Loss rate: 0.21%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-02-28 08:24:42

End at: 2018-02-28 08:25:13

Local clock offset: 0.797 ms

Remote clock offset: 0.097 ms

Below is generated by plot.py at 2018-02-28 13:07:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.96 Mbit/s

95th percentile per-packet one-way delay: 18.946 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 49.90 Mbit/s

95th percentile per-packet one-way delay: 18.937 ms

Loss rate: 0.09%

-- Flow 2:

Average throughput: 45.18 Mbit/s

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

Loss rate: 0.10%

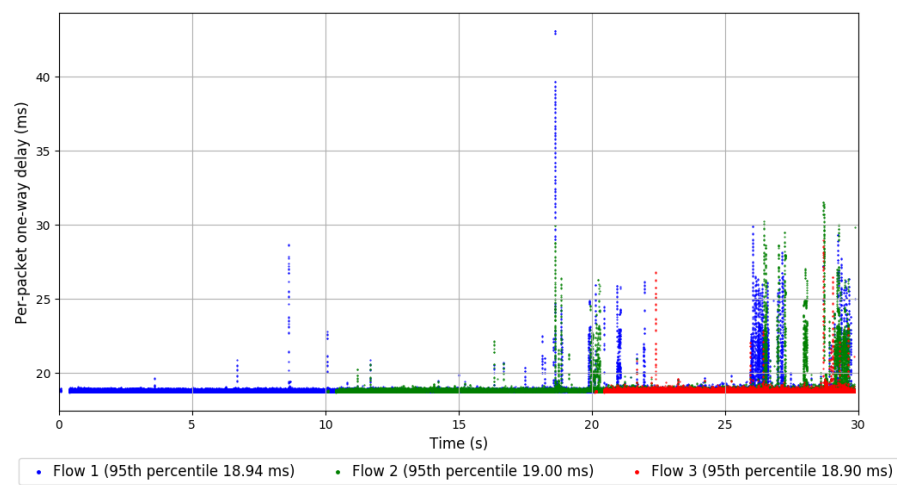
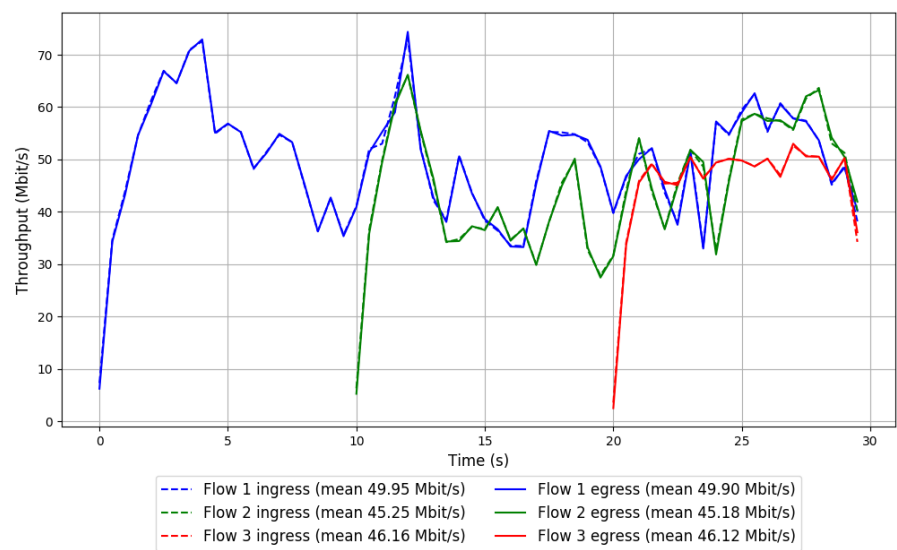
-- Flow 3:

Average throughput: 46.12 Mbit/s

95th percentile per-packet one-way delay: 18.904 ms

Loss rate: 0.07%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-02-28 08:53:34

End at: 2018-02-28 08:54:04

Local clock offset: 0.811 ms

Remote clock offset: 0.611 ms

Below is generated by plot.py at 2018-02-28 13:07:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 118.68 Mbit/s

95th percentile per-packet one-way delay: 19.876 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 63.72 Mbit/s

95th percentile per-packet one-way delay: 18.712 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 56.93 Mbit/s

95th percentile per-packet one-way delay: 21.832 ms

Loss rate: 0.03%

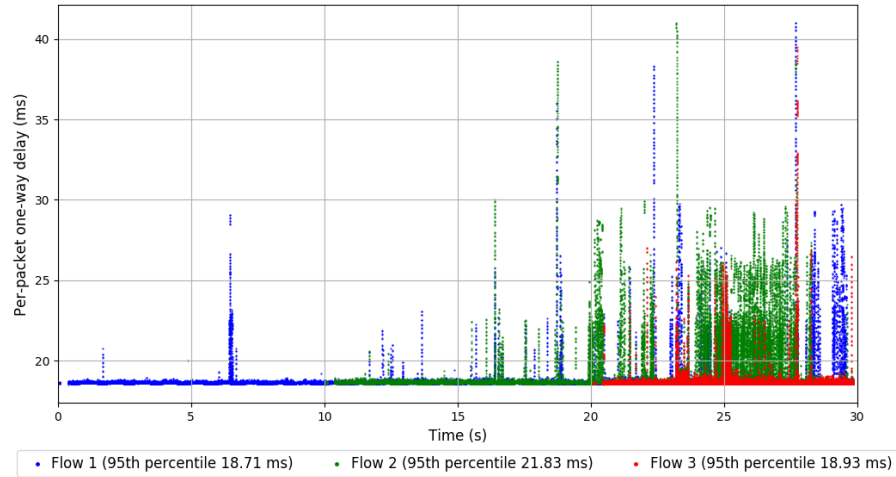
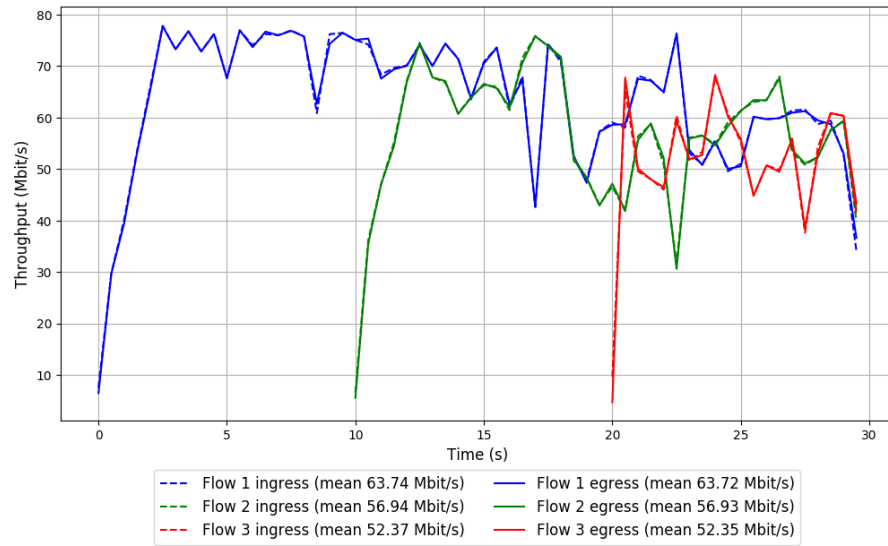
-- Flow 3:

Average throughput: 52.35 Mbit/s

95th percentile per-packet one-way delay: 18.926 ms

Loss rate: 0.03%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-02-28 09:26:24

End at: 2018-02-28 09:26:54

Local clock offset: 0.752 ms

Remote clock offset: 0.262 ms

Below is generated by plot.py at 2018-02-28 13:07:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 121.23 Mbit/s

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

Loss rate: 0.02%

-- Flow 1:

Average throughput: 63.51 Mbit/s

95th percentile per-packet one-way delay: 18.845 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 61.67 Mbit/s

95th percentile per-packet one-way delay: 19.194 ms

Loss rate: 0.02%

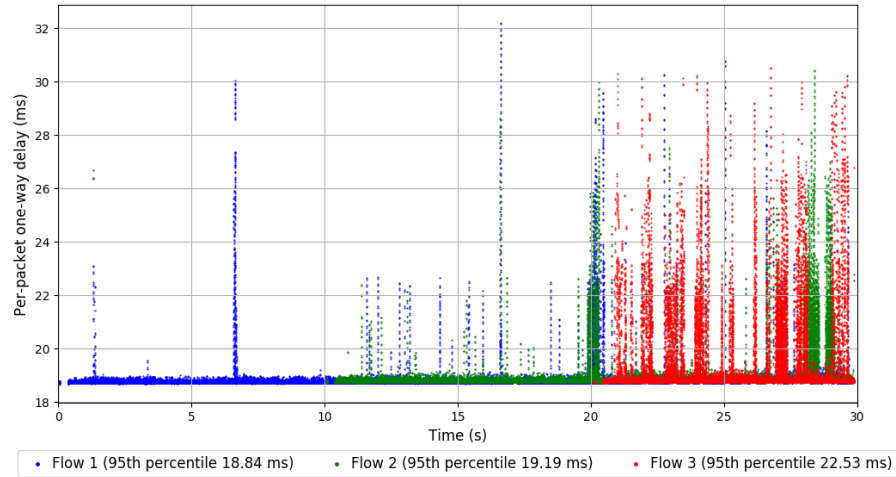
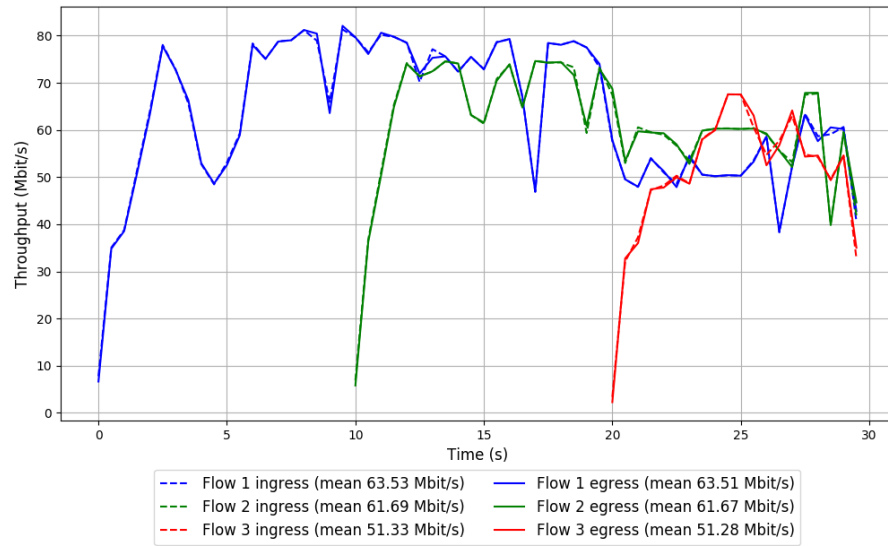
-- Flow 3:

Average throughput: 51.28 Mbit/s

95th percentile per-packet one-way delay: 22.533 ms

Loss rate: 0.03%

Run 10: Report of QUIC Cubic — Data Link

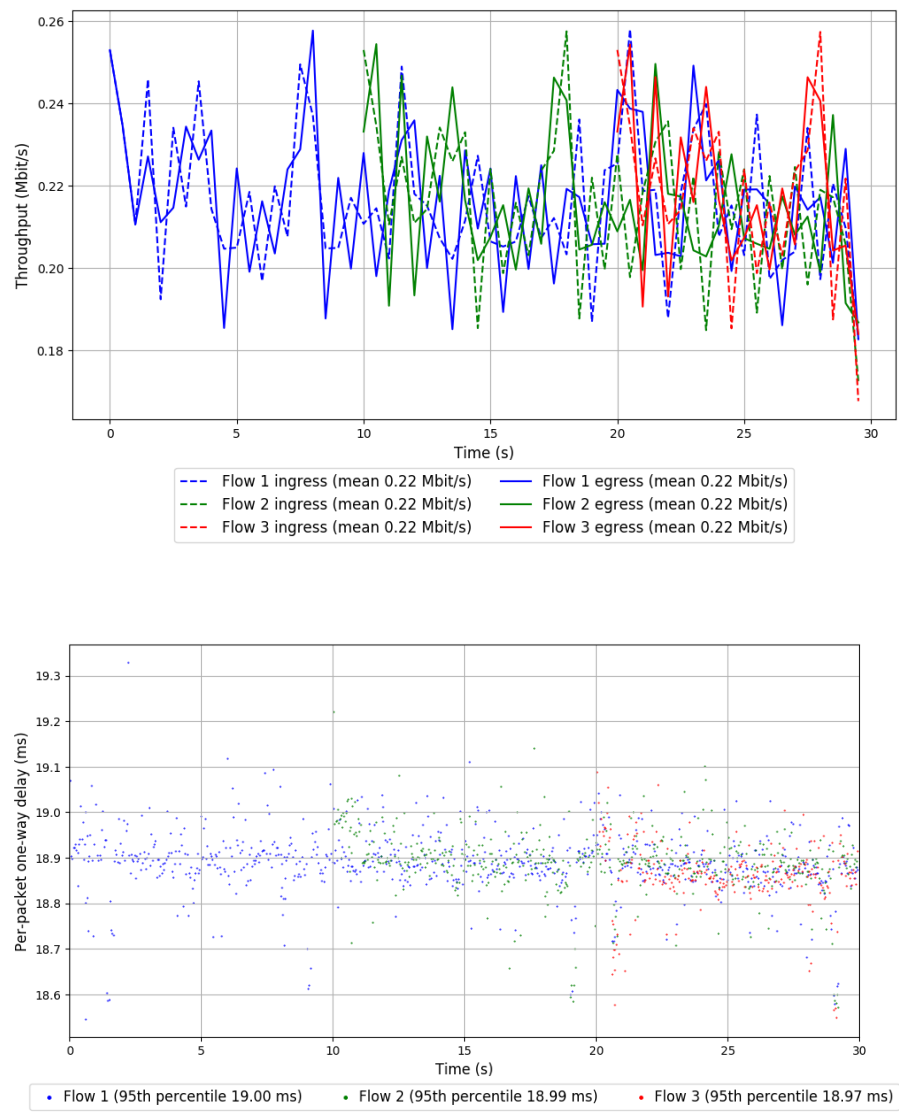


Run 1: Statistics of SReAM

Start at: 2018-02-28 04:51:25
End at: 2018-02-28 04:51:55
Local clock offset: 1.631 ms
Remote clock offset: -4.804 ms

Below is generated by plot.py at 2018-02-28 13:07:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 18.997 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.002 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 18.993 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 18.966 ms
Loss rate: 0.00%

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SReAM

Start at: 2018-02-28 05:20:04

End at: 2018-02-28 05:20:34

Local clock offset: 1.435 ms

Remote clock offset: -3.19 ms

Below is generated by plot.py at 2018-02-28 13:07:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 18.958 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 18.945 ms

Loss rate: 0.00%

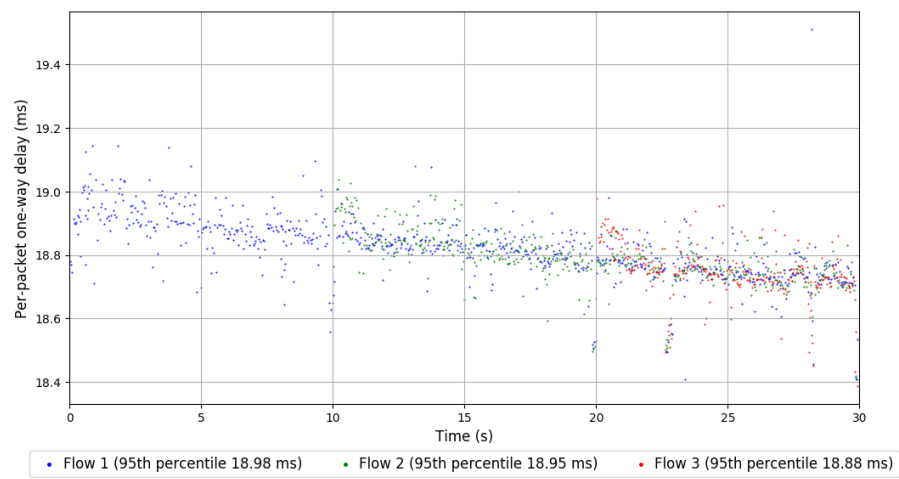
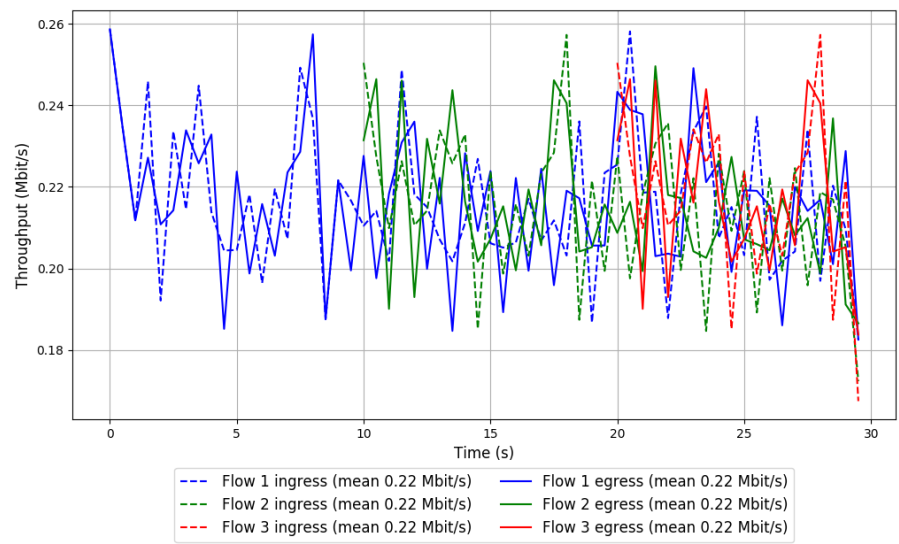
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 18.880 ms

Loss rate: 0.00%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SReAM

Start at: 2018-02-28 05:49:07

End at: 2018-02-28 05:49:37

Local clock offset: 1.56 ms

Remote clock offset: 1.945 ms

Below is generated by plot.py at 2018-02-28 13:07:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 18.987 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 18.998 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 18.992 ms

Loss rate: 0.00%

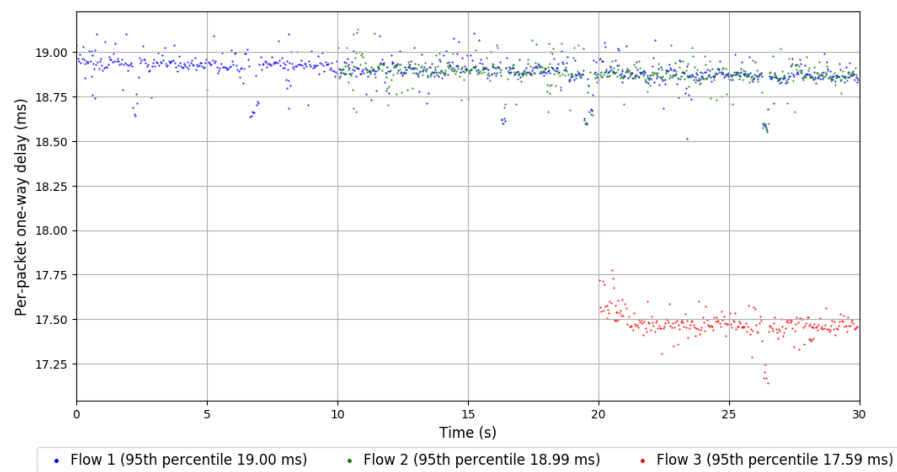
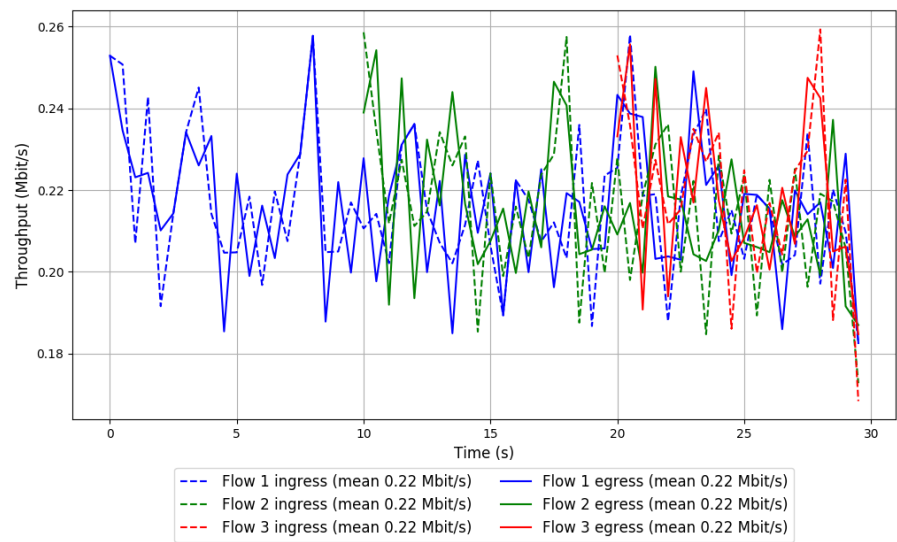
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 17.585 ms

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SReAM

Start at: 2018-02-28 06:18:27

End at: 2018-02-28 06:18:57

Local clock offset: 1.17 ms

Remote clock offset: 0.355 ms

Below is generated by plot.py at 2018-02-28 13:07:47

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: 19.029 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 18.983 ms

Loss rate: 0.00%

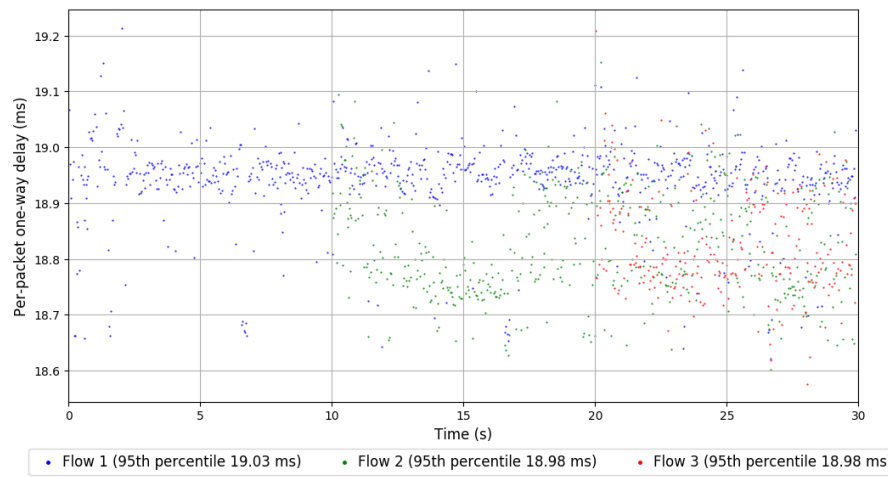
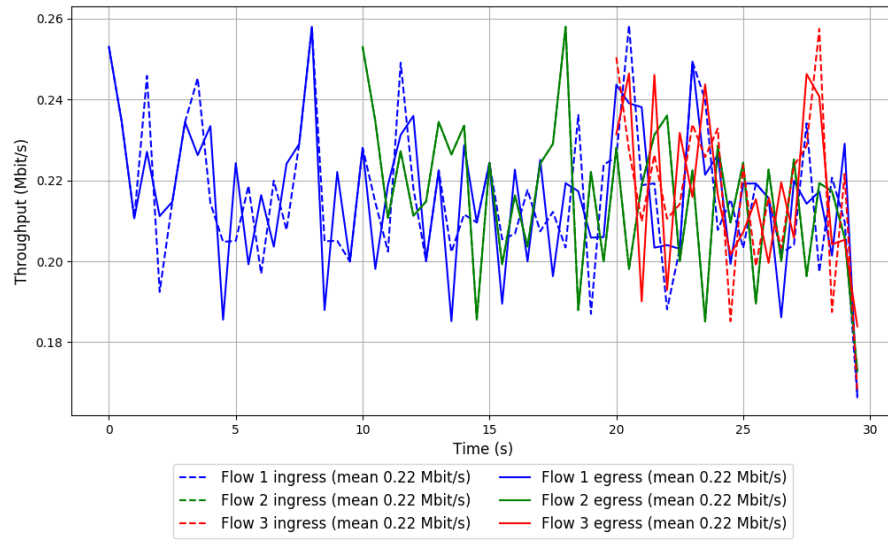
-- Flow 3:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SReAM

Start at: 2018-02-28 06:47:31

End at: 2018-02-28 06:48:01

Local clock offset: -0.61 ms

Remote clock offset: 0.25 ms

Below is generated by plot.py at 2018-02-28 13:07:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 18.996 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 17.657 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 17.653 ms

Loss rate: 0.00%

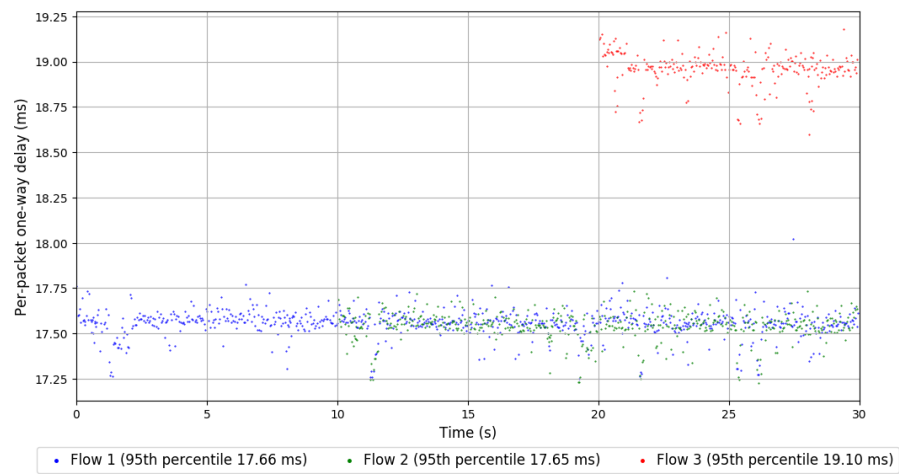
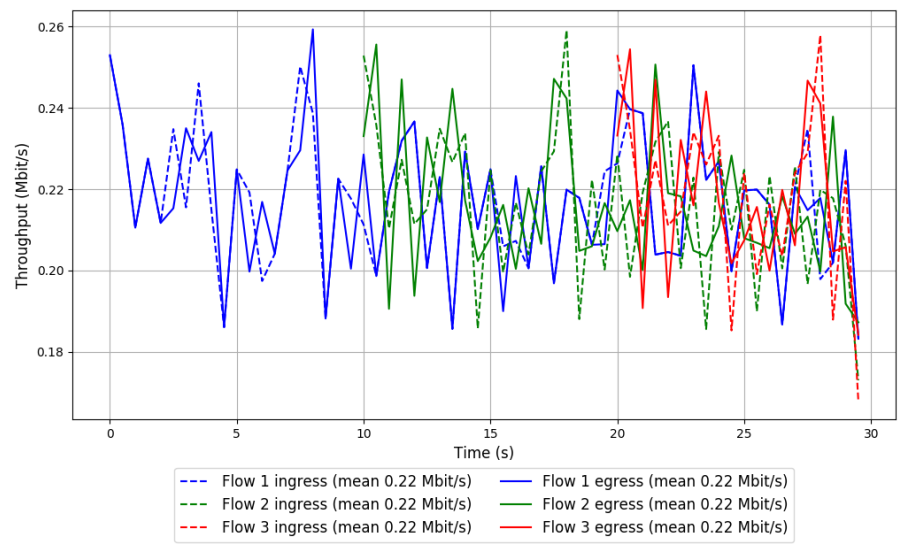
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.099 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SReAM

Start at: 2018-02-28 07:16:30

End at: 2018-02-28 07:17:00

Local clock offset: 0.986 ms

Remote clock offset: 0.475 ms

Below is generated by plot.py at 2018-02-28 13:07:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.087 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.067 ms

Loss rate: 0.00%

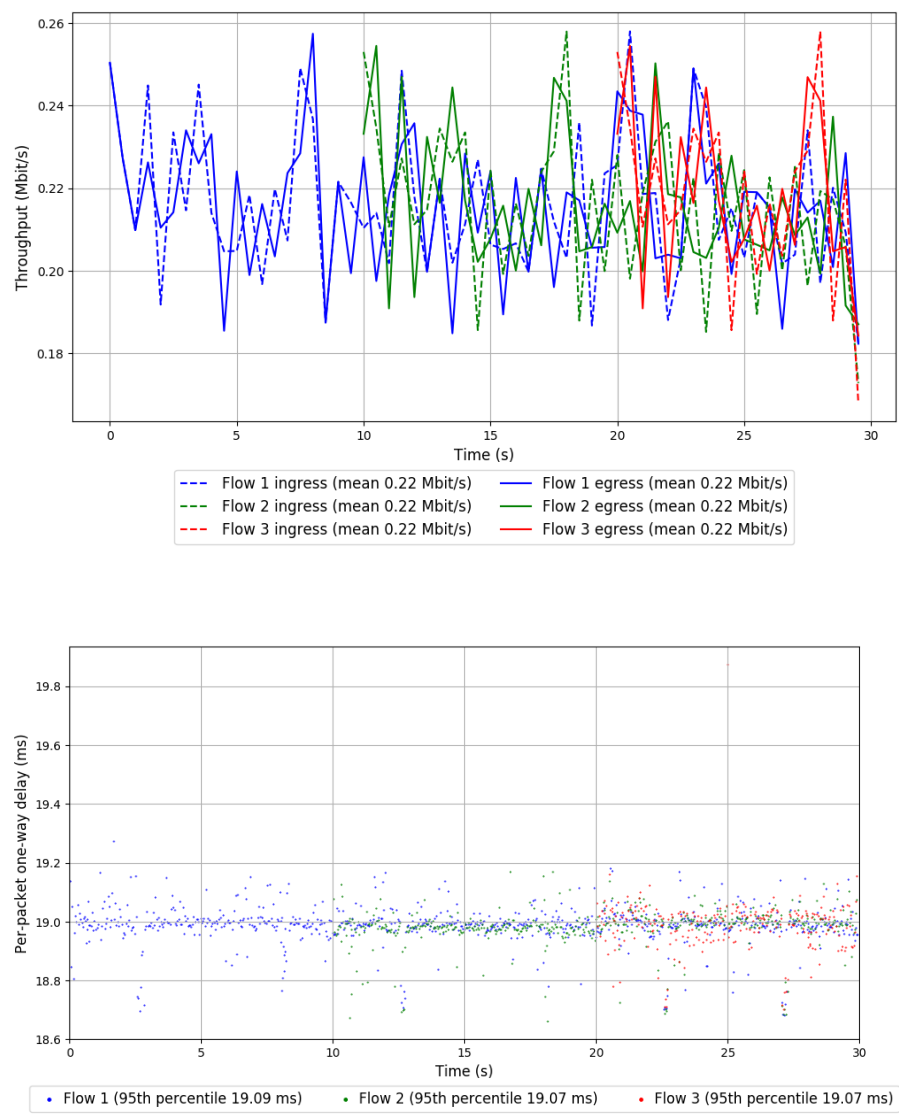
-- Flow 3:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.00%

Run 6: Report of SReAM — Data Link

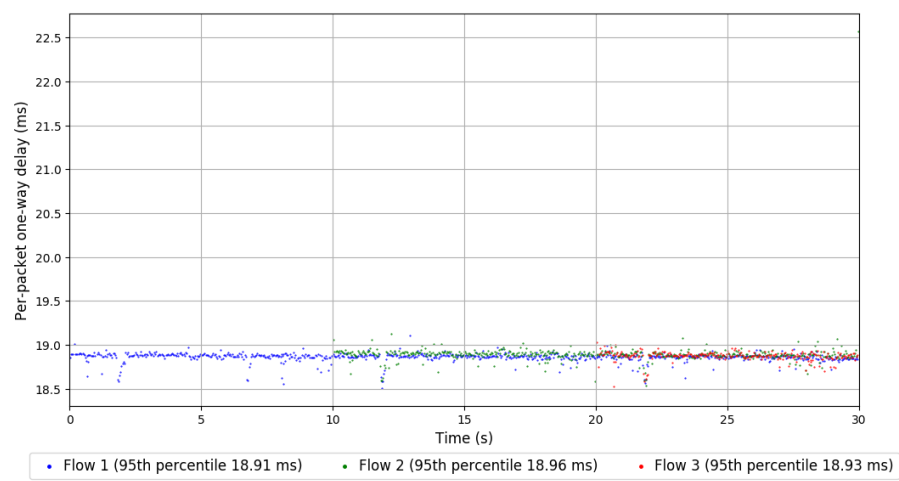
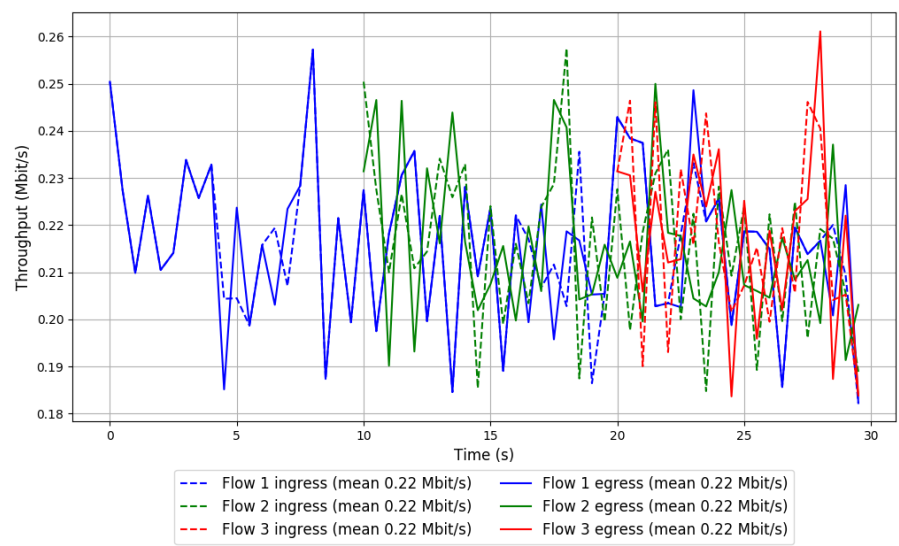


Run 7: Statistics of SReAM

Start at: 2018-02-28 07:45:50
End at: 2018-02-28 07:46:20
Local clock offset: 1.062 ms
Remote clock offset: 2.102 ms

Below is generated by plot.py at 2018-02-28 13:07:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 18.934 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 18.914 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 18.956 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 18.935 ms
Loss rate: 0.00%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-02-28 08:14:38

End at: 2018-02-28 08:15:08

Local clock offset: 0.945 ms

Remote clock offset: 1.415 ms

Below is generated by plot.py at 2018-02-28 13:07:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 19.134 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 19.133 ms

Loss rate: 0.24%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.134 ms

Loss rate: 0.00%

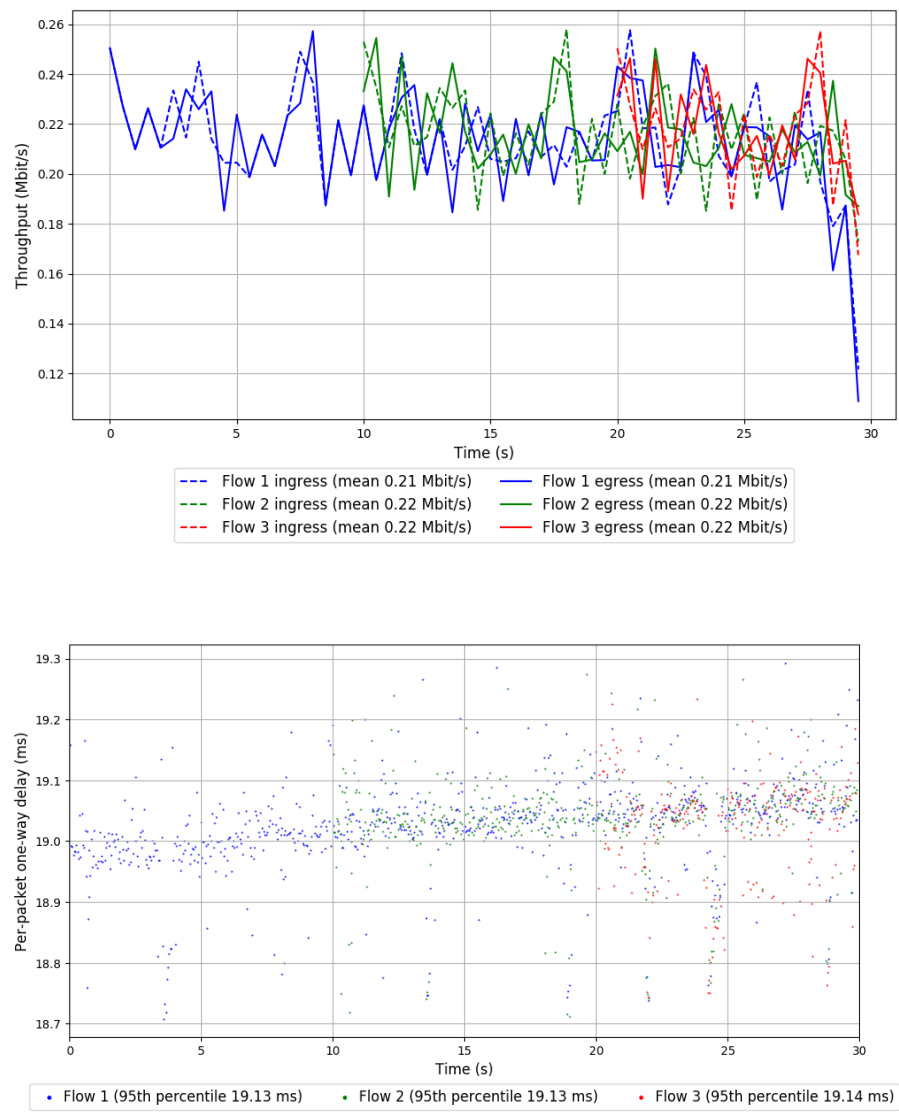
-- Flow 3:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link

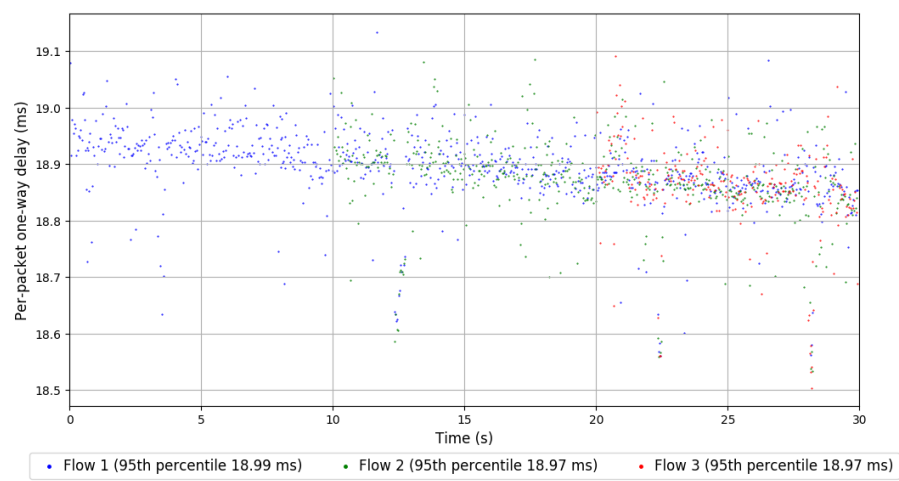
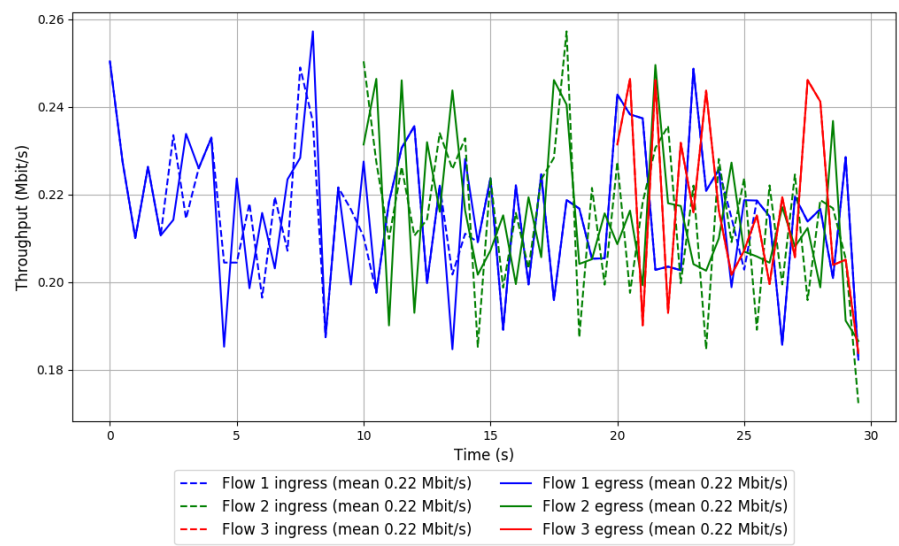


Run 9: Statistics of SReAM

Start at: 2018-02-28 08:43:29
End at: 2018-02-28 08:43:59
Local clock offset: 0.849 ms
Remote clock offset: -0.483 ms

Below is generated by plot.py at 2018-02-28 13:07:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 18.982 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 18.988 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 18.972 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 18.974 ms
Loss rate: 0.00%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SCReAM

Start at: 2018-02-28 09:12:28

End at: 2018-02-28 09:12:58

Local clock offset: 0.672 ms

Remote clock offset: 1.041 ms

Below is generated by plot.py at 2018-02-28 13:07:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 19.010 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.011 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 17.614 ms

Loss rate: 0.00%

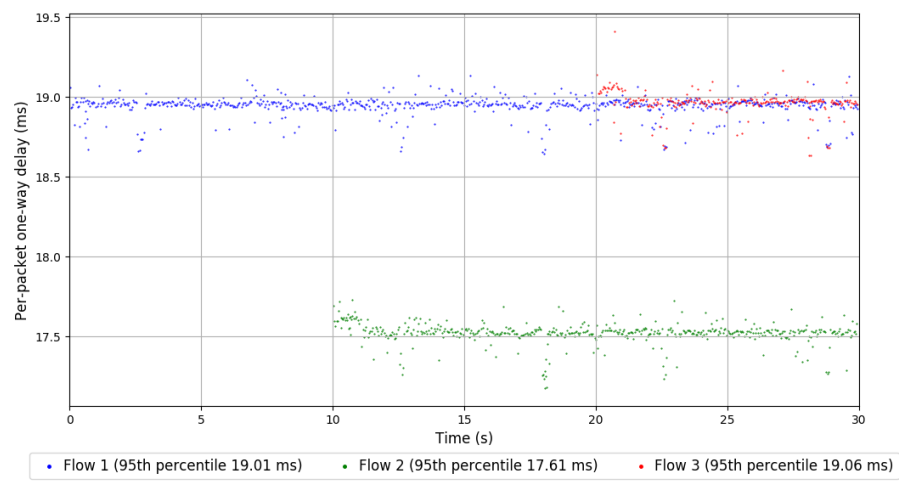
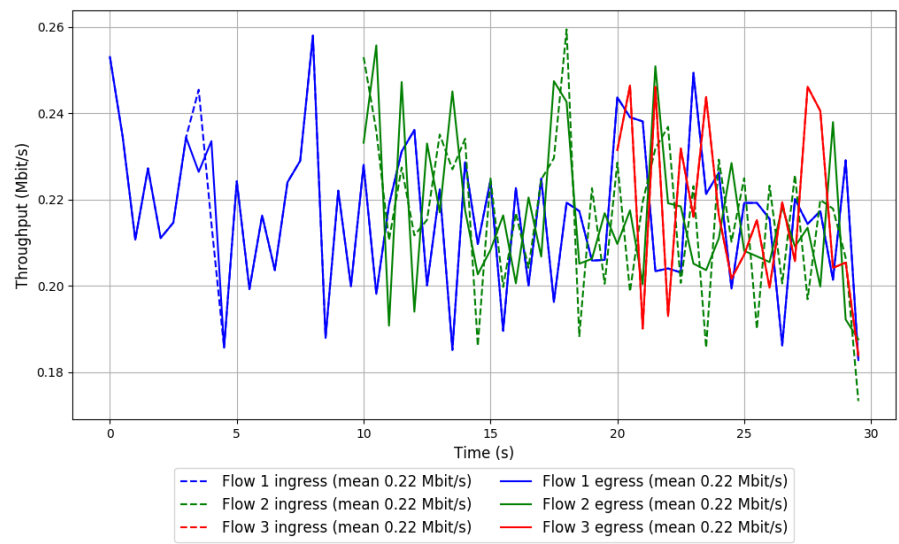
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.059 ms

Loss rate: 0.00%

Run 10: Report of SReAM — Data Link

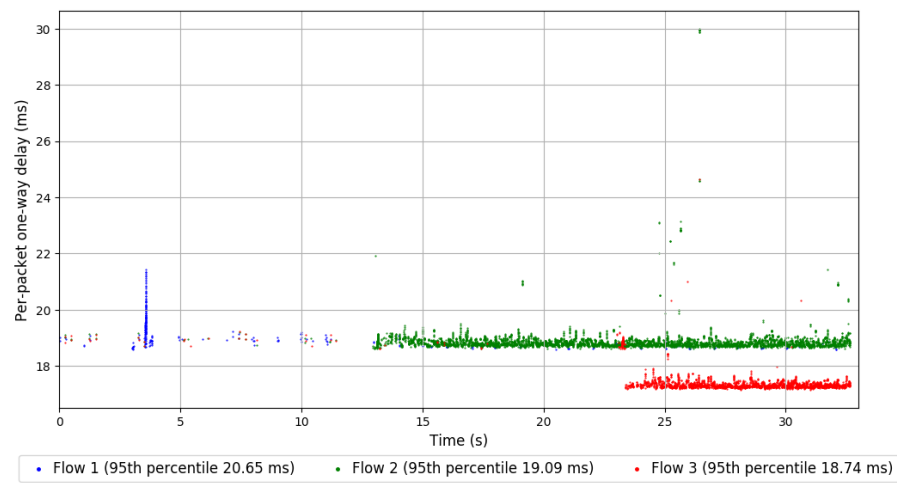
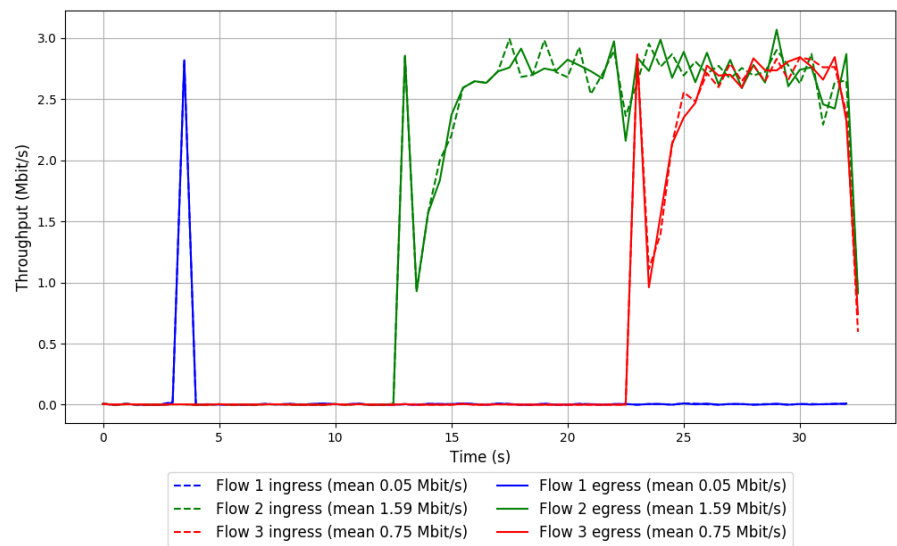


Run 1: Statistics of WebRTC media

Start at: 2018-02-28 05:09:12
End at: 2018-02-28 05:09:42
Local clock offset: 1.493 ms
Remote clock offset: -4.542 ms

Below is generated by plot.py at 2018-02-28 13:07:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 2.37 Mbit/s
95th percentile per-packet one-way delay: 19.079 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 20.649 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.59 Mbit/s
95th percentile per-packet one-way delay: 19.089 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.75 Mbit/s
95th percentile per-packet one-way delay: 18.740 ms
Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-02-28 05:38:14

End at: 2018-02-28 05:38:44

Local clock offset: 1.39 ms

Remote clock offset: 0.718 ms

Below is generated by plot.py at 2018-02-28 13:07:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.72 Mbit/s

95th percentile per-packet one-way delay: 19.830 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 2.41 Mbit/s

95th percentile per-packet one-way delay: 19.499 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 1.58 Mbit/s

95th percentile per-packet one-way delay: 19.494 ms

Loss rate: 0.02%

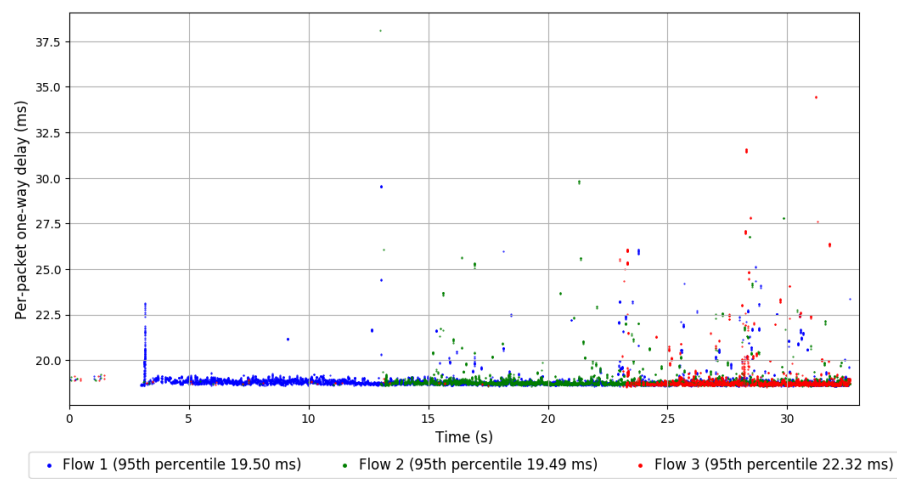
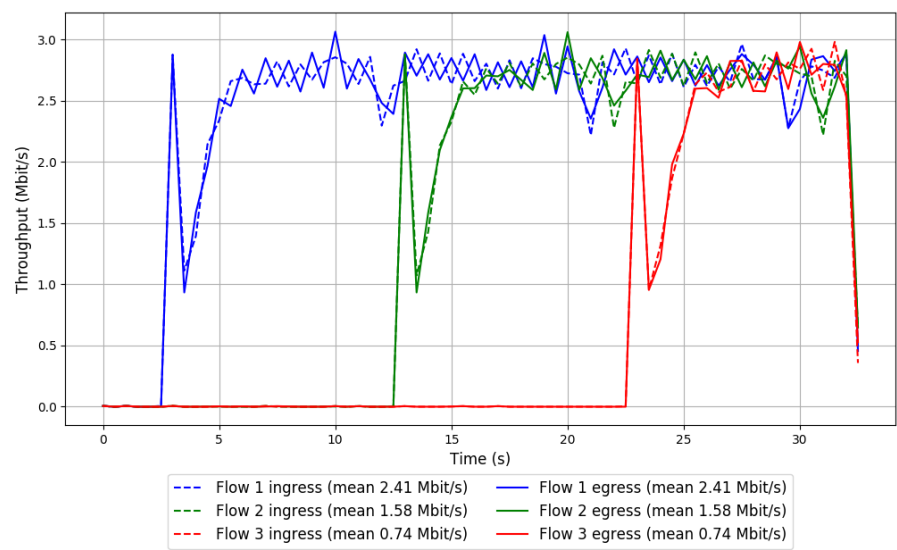
-- Flow 3:

Average throughput: 0.74 Mbit/s

95th percentile per-packet one-way delay: 22.316 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-02-28 06:07:28

End at: 2018-02-28 06:07:58

Local clock offset: 1.088 ms

Remote clock offset: 0.331 ms

Below is generated by plot.py at 2018-02-28 13:07:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.72 Mbit/s

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

Loss rate: 0.02%

-- Flow 1:

Average throughput: 2.42 Mbit/s

95th percentile per-packet one-way delay: 19.205 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.57 Mbit/s

95th percentile per-packet one-way delay: 17.755 ms

Loss rate: 0.05%

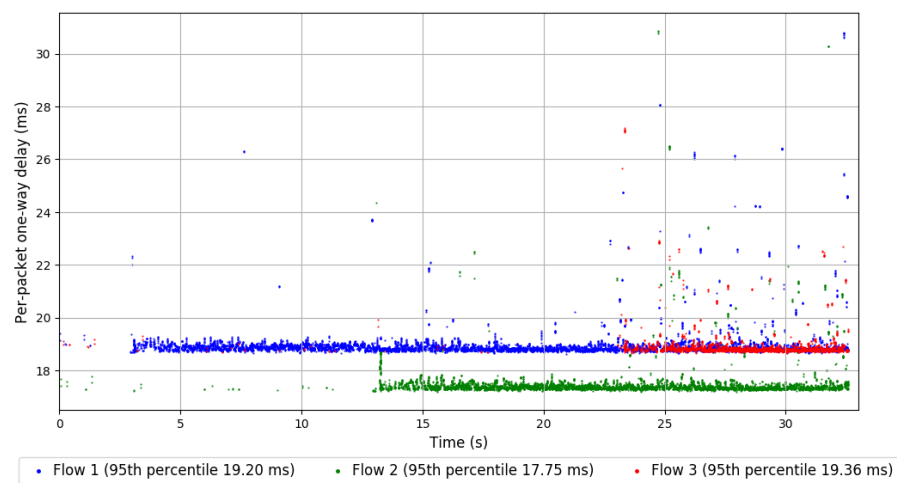
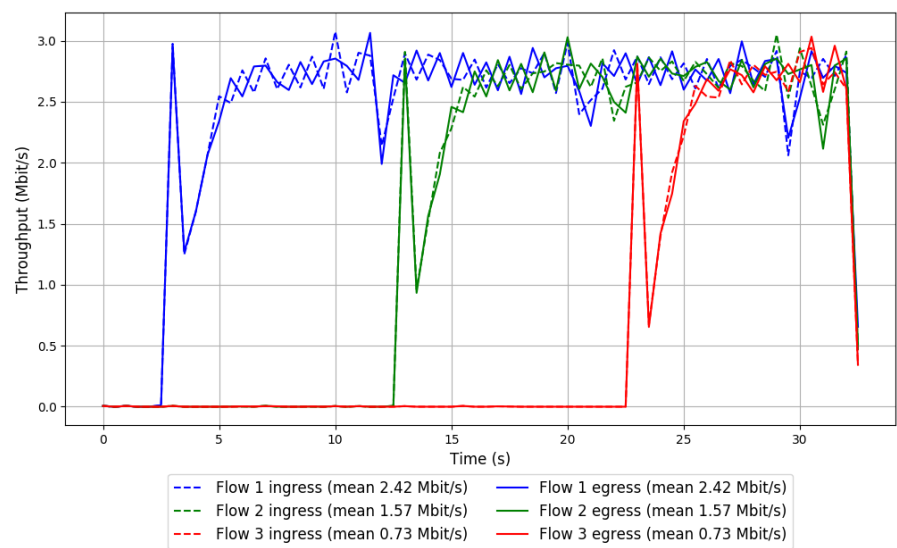
-- Flow 3:

Average throughput: 0.73 Mbit/s

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

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-02-28 06:36:36

End at: 2018-02-28 06:37:06

Local clock offset: -0.317 ms

Remote clock offset: 0.182 ms

Below is generated by plot.py at 2018-02-28 13:07:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.72 Mbit/s

95th percentile per-packet one-way delay: 19.566 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.42 Mbit/s

95th percentile per-packet one-way delay: 19.630 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.58 Mbit/s

95th percentile per-packet one-way delay: 19.265 ms

Loss rate: 0.00%

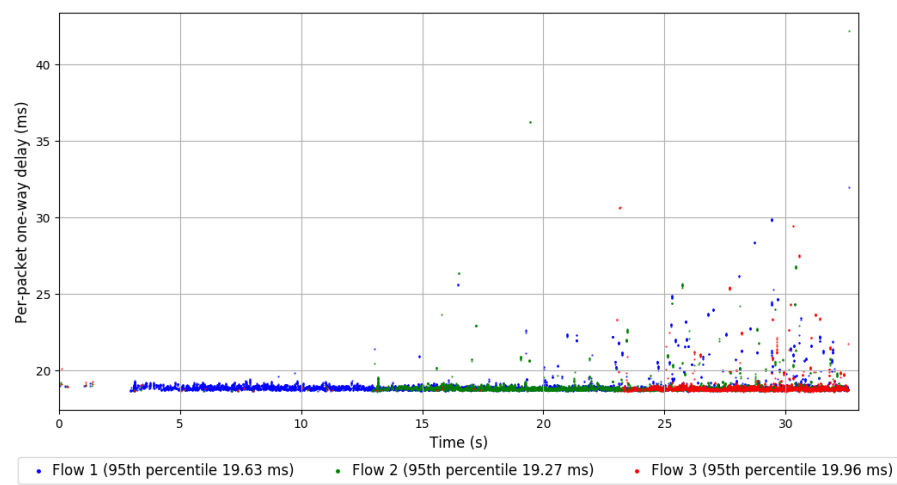
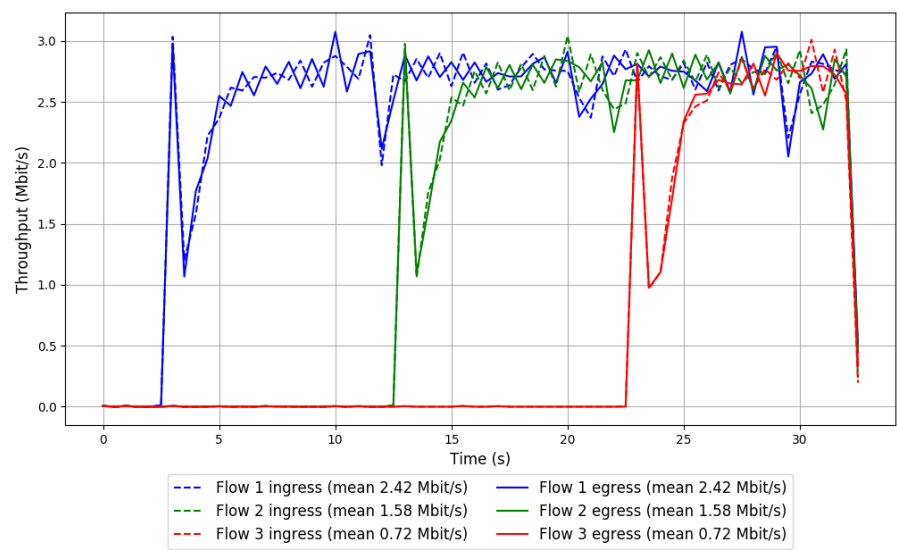
-- Flow 3:

Average throughput: 0.72 Mbit/s

95th percentile per-packet one-way delay: 19.956 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-02-28 07:05:34

End at: 2018-02-28 07:06:04

Local clock offset: 0.335 ms

Remote clock offset: 0.31 ms

Below is generated by plot.py at 2018-02-28 13:07:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 5.14 Mbit/s

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

Loss rate: 0.03%

-- Flow 1:

Average throughput: 2.84 Mbit/s

95th percentile per-packet one-way delay: 19.155 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 1.58 Mbit/s

95th percentile per-packet one-way delay: 19.239 ms

Loss rate: 0.00%

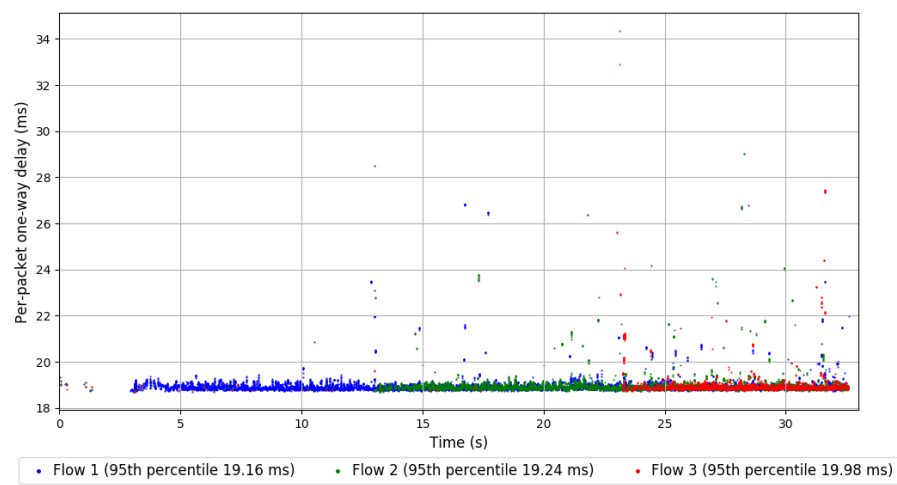
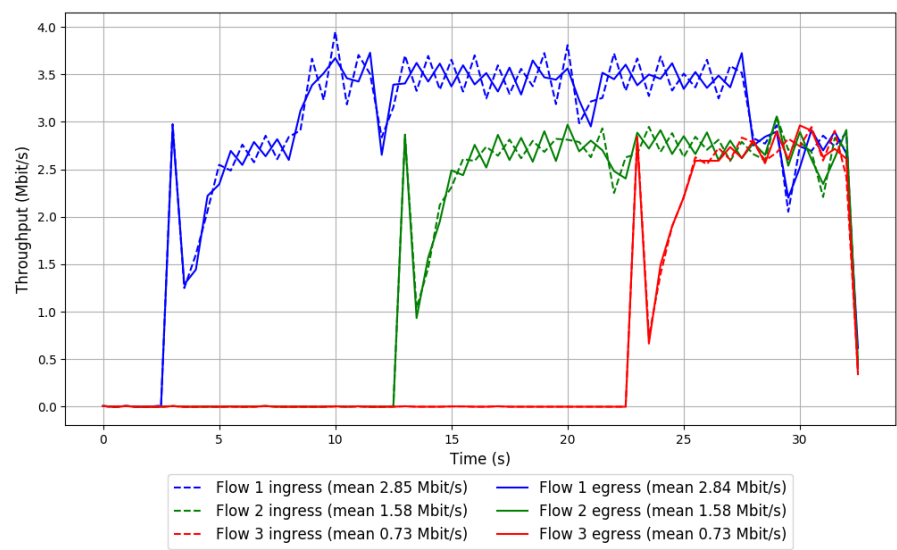
-- Flow 3:

Average throughput: 0.73 Mbit/s

95th percentile per-packet one-way delay: 19.979 ms

Loss rate: 0.04%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-02-28 07:34:57

End at: 2018-02-28 07:35:27

Local clock offset: 1.109 ms

Remote clock offset: 0.856 ms

Below is generated by plot.py at 2018-02-28 13:07:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 5.27 Mbit/s

95th percentile per-packet one-way delay: 19.008 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 2.98 Mbit/s

95th percentile per-packet one-way delay: 18.993 ms

Loss rate: 0.16%

-- Flow 2:

Average throughput: 1.57 Mbit/s

95th percentile per-packet one-way delay: 19.410 ms

Loss rate: 0.04%

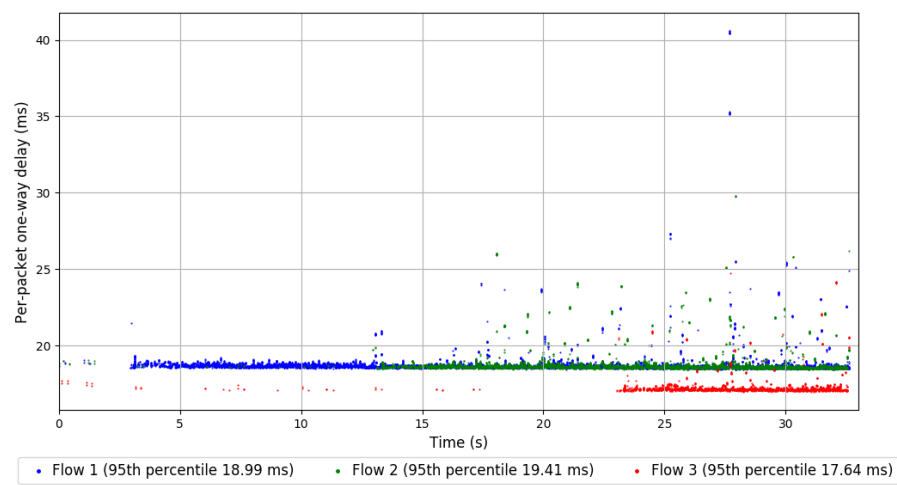
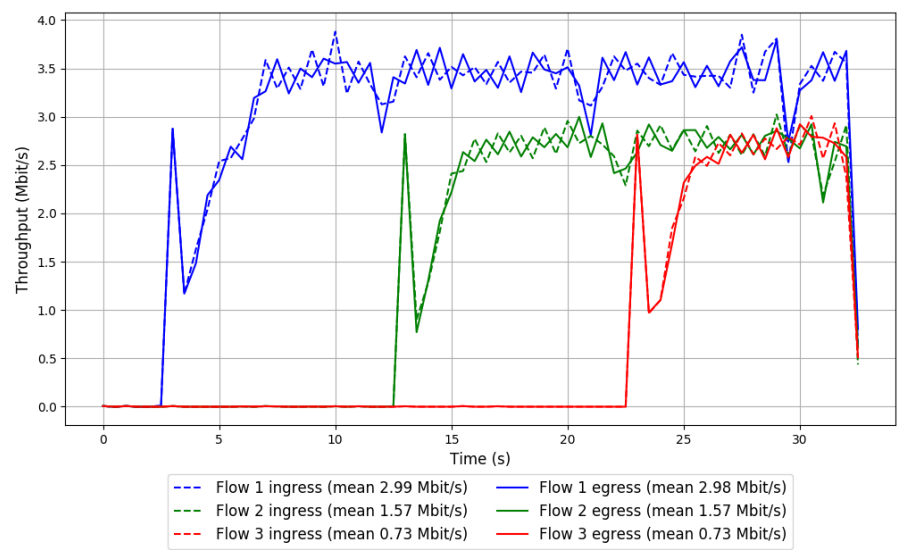
-- Flow 3:

Average throughput: 0.73 Mbit/s

95th percentile per-packet one-way delay: 17.639 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-02-28 08:03:45

End at: 2018-02-28 08:04:15

Local clock offset: 1.061 ms

Remote clock offset: 3.025 ms

Below is generated by plot.py at 2018-02-28 13:07:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 5.13 Mbit/s

95th percentile per-packet one-way delay: 19.101 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 2.82 Mbit/s

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

Loss rate: 0.09%

-- Flow 2:

Average throughput: 1.58 Mbit/s

95th percentile per-packet one-way delay: 18.872 ms

Loss rate: 0.02%

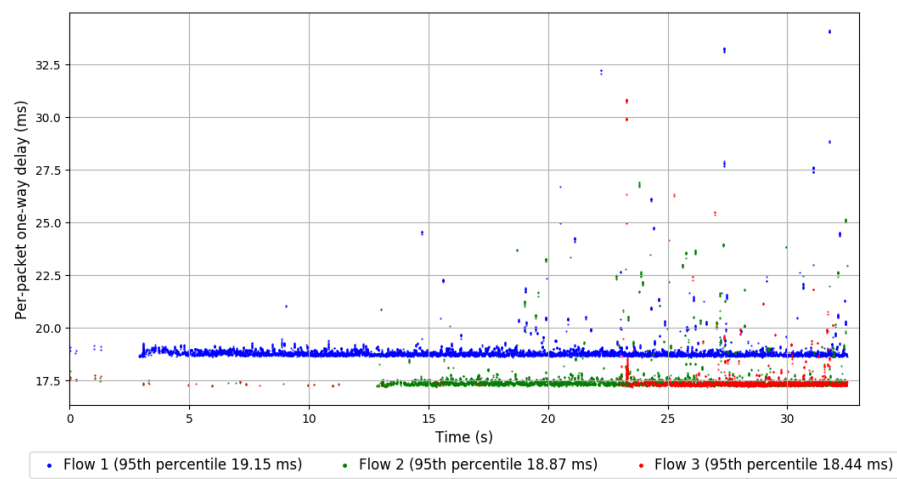
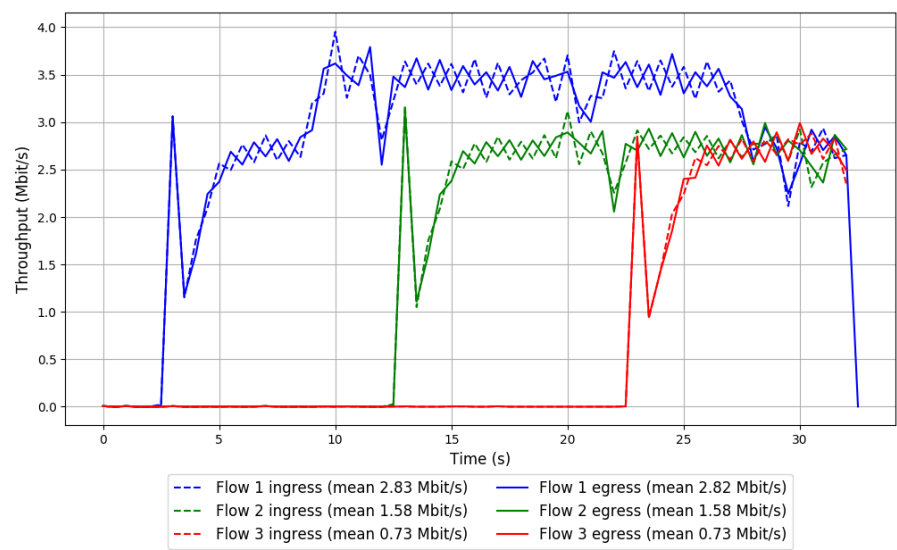
-- Flow 3:

Average throughput: 0.73 Mbit/s

95th percentile per-packet one-way delay: 18.442 ms

Loss rate: 0.04%

Run 7: Report of WebRTC media — Data Link

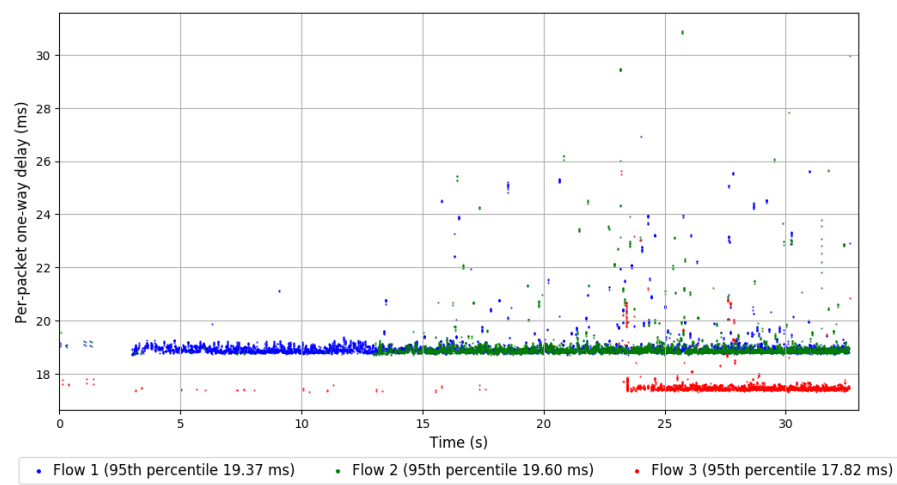
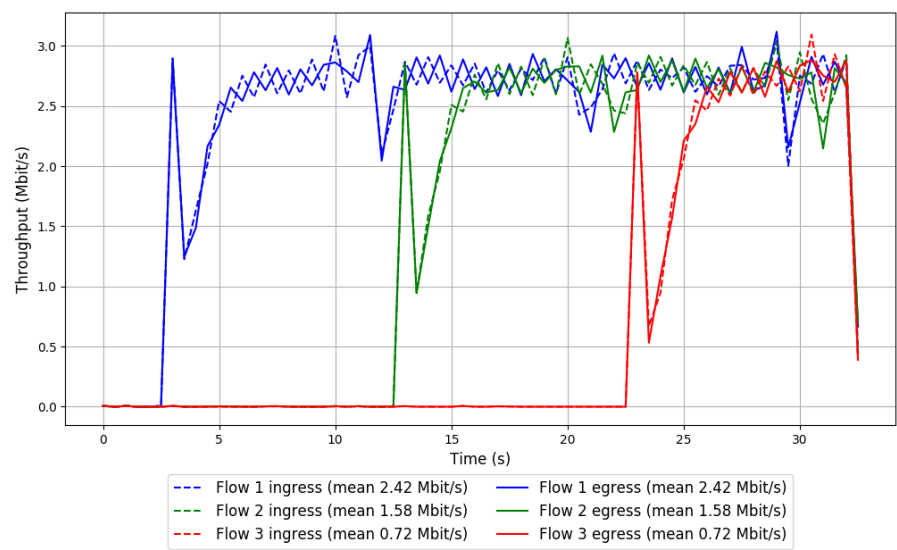


Run 8: Statistics of WebRTC media

Start at: 2018-02-28 08:32:37
End at: 2018-02-28 08:33:07
Local clock offset: 0.766 ms
Remote clock offset: -0.356 ms

Below is generated by plot.py at 2018-02-28 13:07:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 4.70 Mbit/s
95th percentile per-packet one-way delay: 19.377 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.42 Mbit/s
95th percentile per-packet one-way delay: 19.368 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.58 Mbit/s
95th percentile per-packet one-way delay: 19.597 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.72 Mbit/s
95th percentile per-packet one-way delay: 17.816 ms
Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-02-28 09:01:33

End at: 2018-02-28 09:02:03

Local clock offset: 0.698 ms

Remote clock offset: 0.927 ms

Below is generated by plot.py at 2018-02-28 13:07:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.87 Mbit/s

95th percentile per-packet one-way delay: 20.683 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 2.57 Mbit/s

95th percentile per-packet one-way delay: 21.316 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 1.58 Mbit/s

95th percentile per-packet one-way delay: 20.351 ms

Loss rate: 0.00%

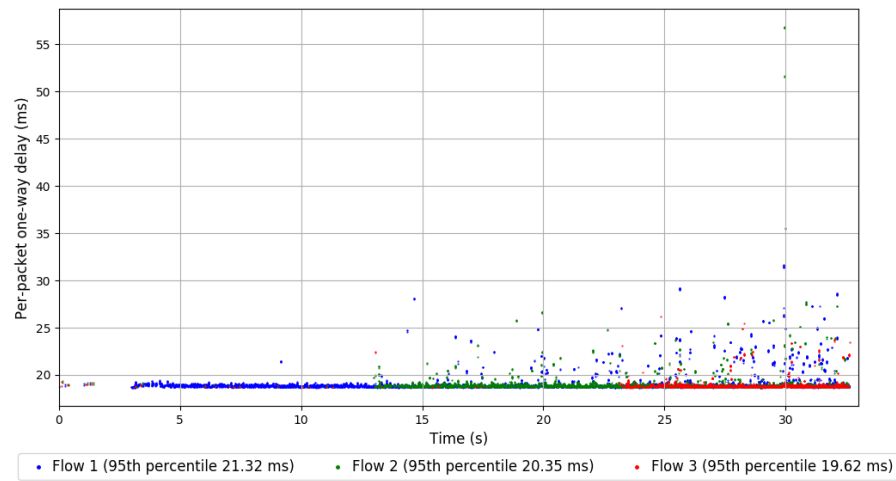
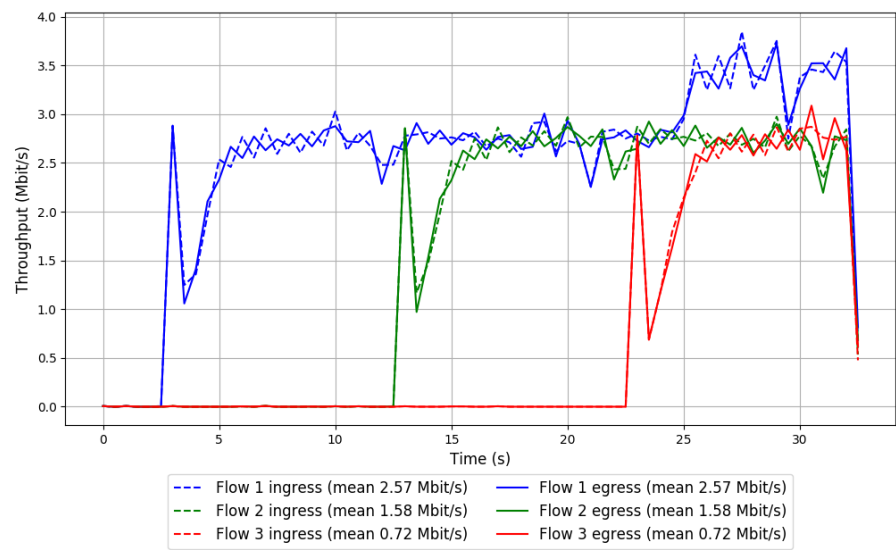
-- Flow 3:

Average throughput: 0.72 Mbit/s

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

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link

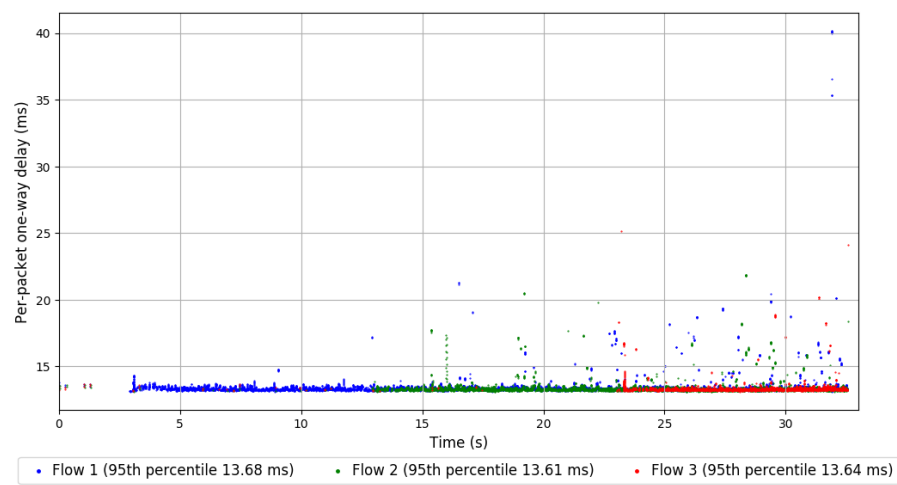
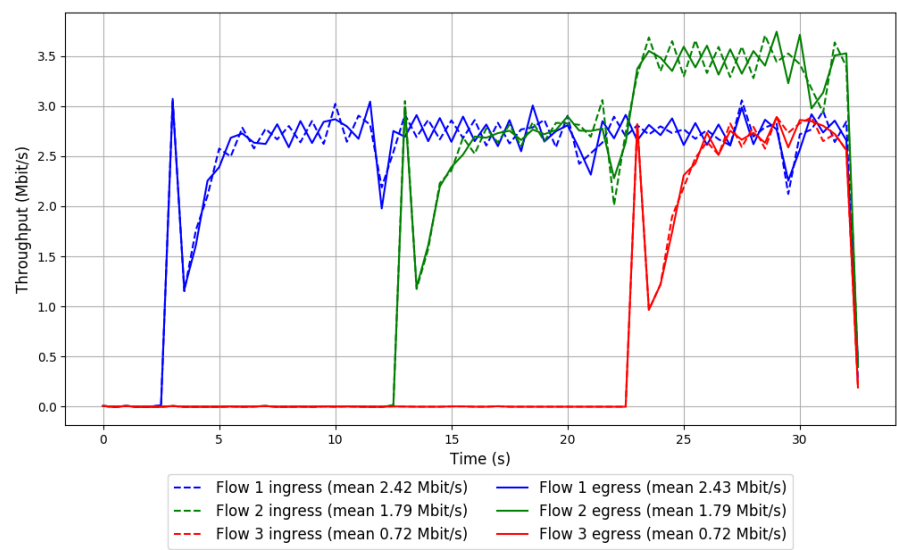


Run 10: Statistics of WebRTC media

Start at: 2018-02-28 09:34:21
End at: 2018-02-28 09:34:51
Local clock offset: 6.352 ms
Remote clock offset: -0.018 ms

Below is generated by plot.py at 2018-02-28 13:07:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 4.93 Mbit/s
95th percentile per-packet one-way delay: 13.654 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 2.43 Mbit/s
95th percentile per-packet one-way delay: 13.681 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.79 Mbit/s
95th percentile per-packet one-way delay: 13.611 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 0.72 Mbit/s
95th percentile per-packet one-way delay: 13.640 ms
Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

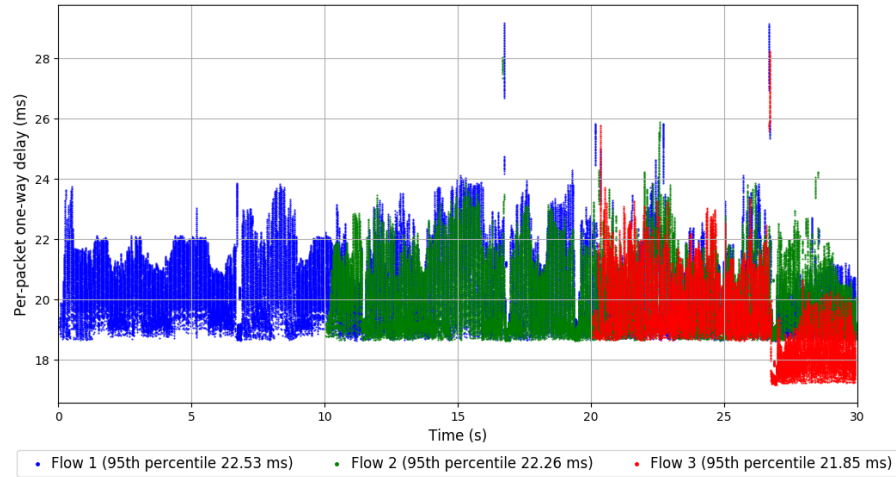
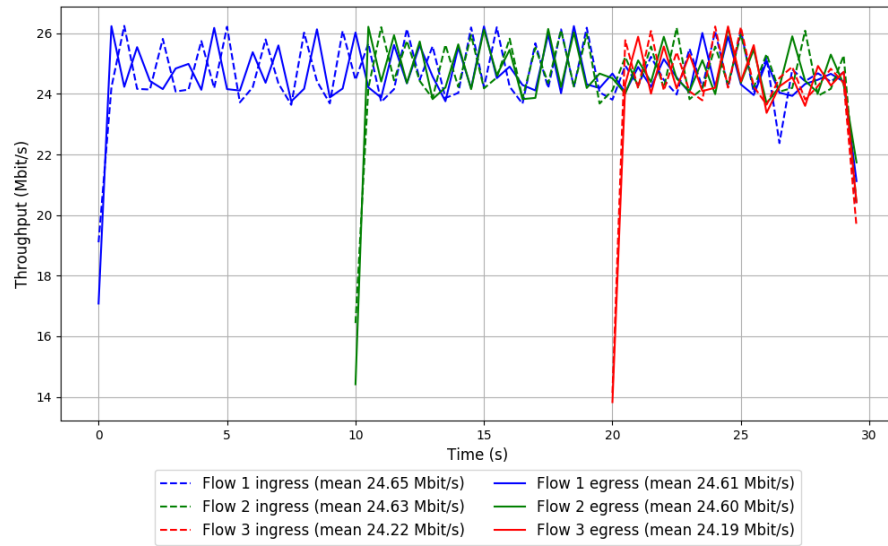


Run 1: Statistics of Sprout

Start at: 2018-02-28 05:12:07
End at: 2018-02-28 05:12:37
Local clock offset: 1.52 ms
Remote clock offset: -4.558 ms

Below is generated by plot.py at 2018-02-28 13:07:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 48.96 Mbit/s
95th percentile per-packet one-way delay: 22.346 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 24.61 Mbit/s
95th percentile per-packet one-way delay: 22.533 ms
Loss rate: 0.18%
-- Flow 2:
Average throughput: 24.60 Mbit/s
95th percentile per-packet one-way delay: 22.259 ms
Loss rate: 0.11%
-- Flow 3:
Average throughput: 24.19 Mbit/s
95th percentile per-packet one-way delay: 21.849 ms
Loss rate: 0.12%

Run 1: Report of Sprout — Data Link

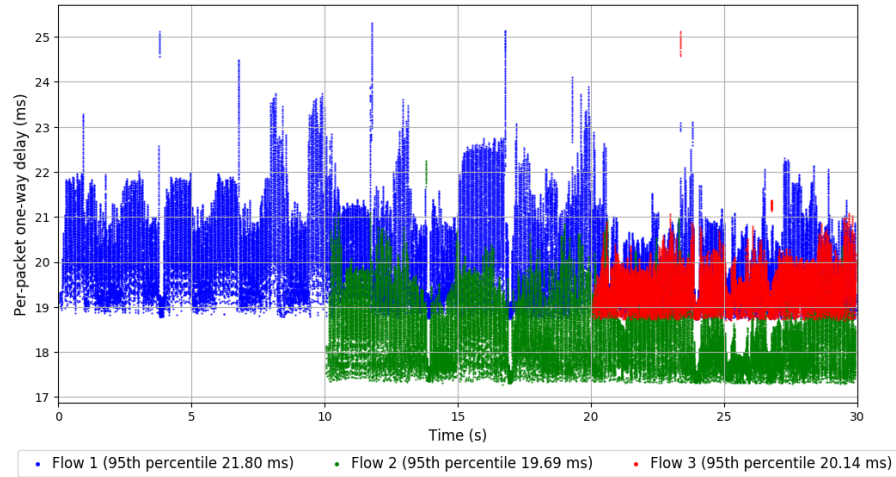
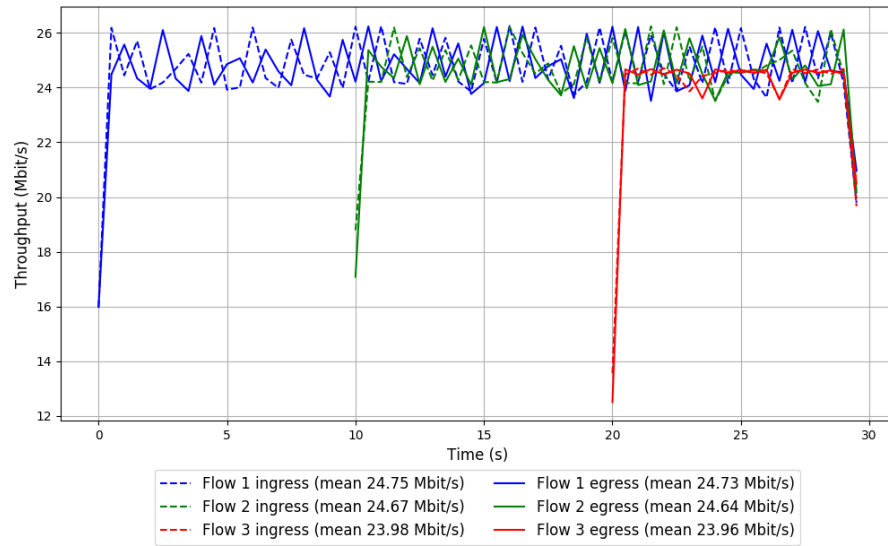


Run 2: Statistics of Sprout

Start at: 2018-02-28 05:41:10
End at: 2018-02-28 05:41:40
Local clock offset: 1.422 ms
Remote clock offset: 1.123 ms

```
# Below is generated by plot.py at 2018-02-28 13:07:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 49.02 Mbit/s
95th percentile per-packet one-way delay: 21.371 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 24.73 Mbit/s
95th percentile per-packet one-way delay: 21.804 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 24.64 Mbit/s
95th percentile per-packet one-way delay: 19.686 ms
Loss rate: 0.12%
-- Flow 3:
Average throughput: 23.96 Mbit/s
95th percentile per-packet one-way delay: 20.139 ms
Loss rate: 0.07%
```

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-02-28 06:10:24

End at: 2018-02-28 06:10:54

Local clock offset: 1.174 ms

Remote clock offset: 0.396 ms

Below is generated by plot.py at 2018-02-28 13:07:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 49.07 Mbit/s

95th percentile per-packet one-way delay: 21.463 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 24.54 Mbit/s

95th percentile per-packet one-way delay: 19.995 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 24.61 Mbit/s

95th percentile per-packet one-way delay: 21.851 ms

Loss rate: 0.04%

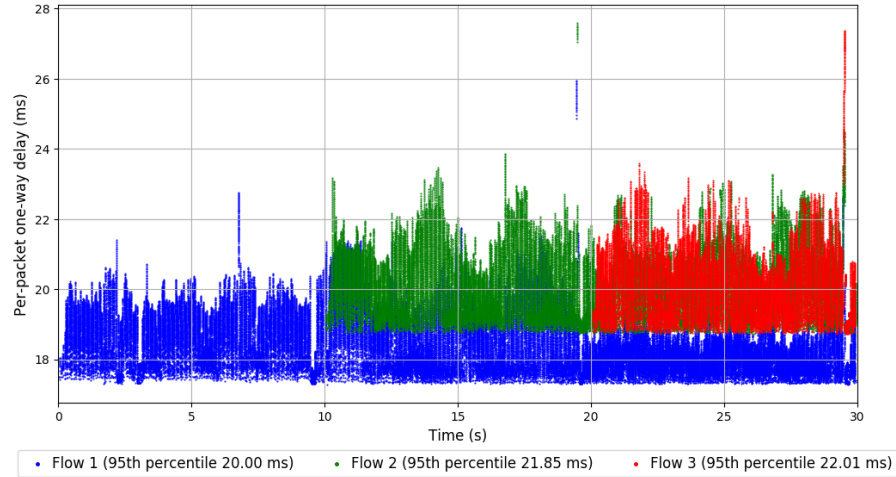
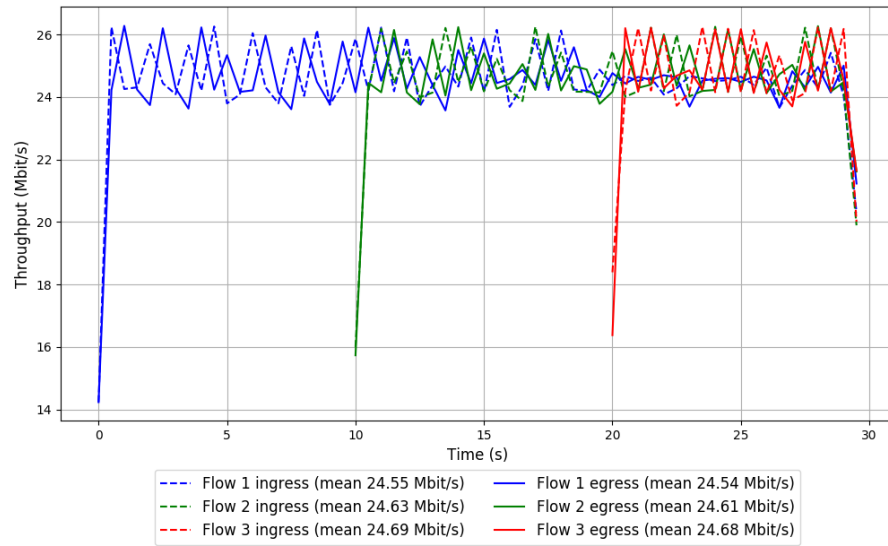
-- Flow 3:

Average throughput: 24.68 Mbit/s

95th percentile per-packet one-way delay: 22.007 ms

Loss rate: 0.02%

Run 3: Report of Sprout — Data Link

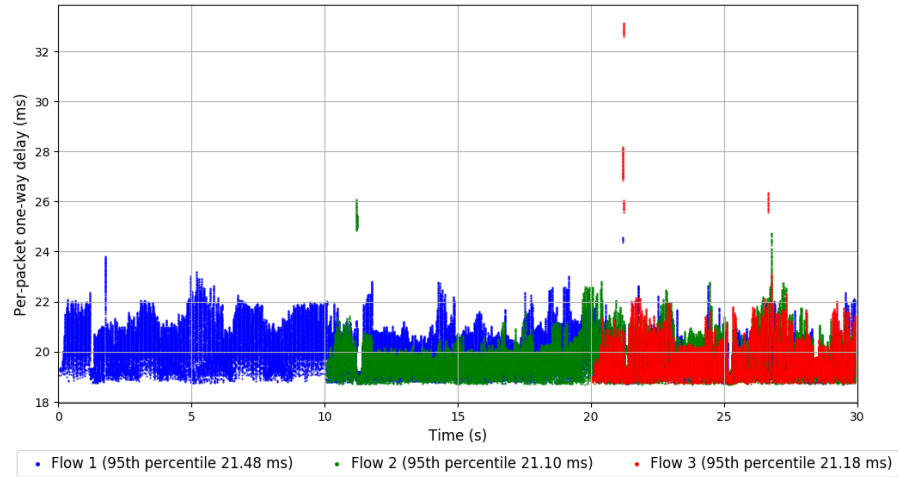
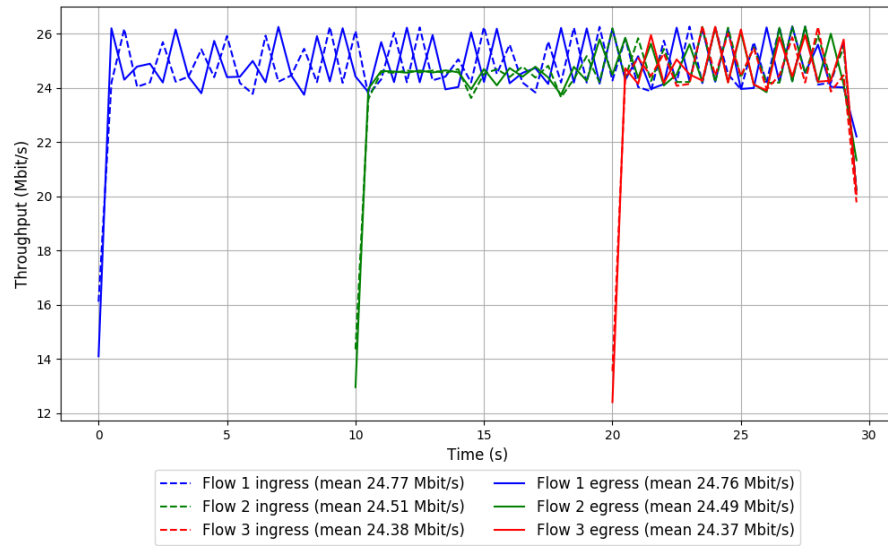


Run 4: Statistics of Sprout

Start at: 2018-02-28 06:39:32
End at: 2018-02-28 06:40:02
Local clock offset: -0.348 ms
Remote clock offset: 0.242 ms

```
# Below is generated by plot.py at 2018-02-28 13:07:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 49.08 Mbit/s
95th percentile per-packet one-way delay: 21.348 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 24.76 Mbit/s
95th percentile per-packet one-way delay: 21.484 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 24.49 Mbit/s
95th percentile per-packet one-way delay: 21.096 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 24.37 Mbit/s
95th percentile per-packet one-way delay: 21.179 ms
Loss rate: 0.00%
```

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-02-28 07:08:30

End at: 2018-02-28 07:09:00

Local clock offset: 0.632 ms

Remote clock offset: 0.407 ms

Below is generated by plot.py at 2018-02-28 13:07:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 49.14 Mbit/s

95th percentile per-packet one-way delay: 21.482 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 24.76 Mbit/s

95th percentile per-packet one-way delay: 21.488 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 24.63 Mbit/s

95th percentile per-packet one-way delay: 21.607 ms

Loss rate: 0.06%

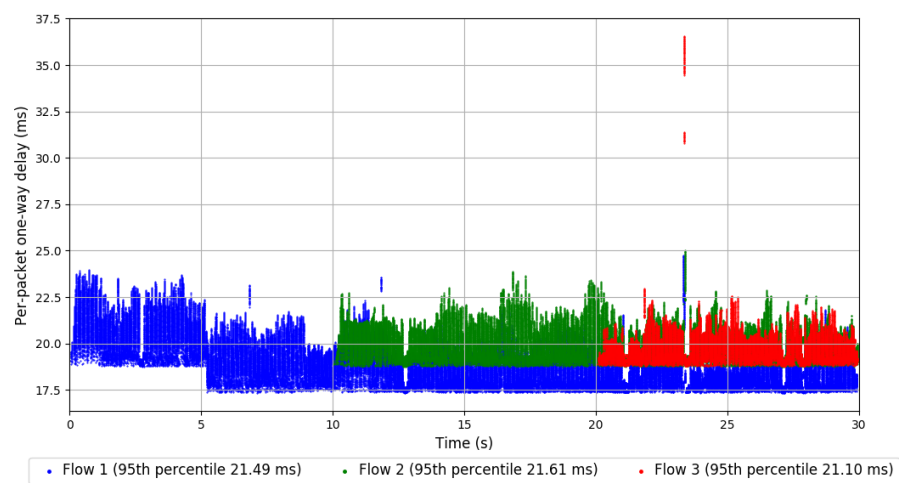
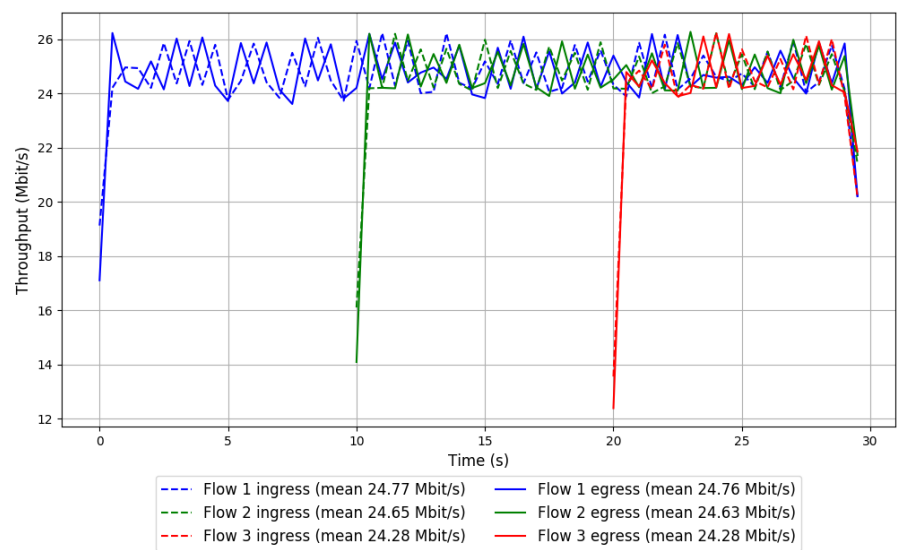
-- Flow 3:

Average throughput: 24.28 Mbit/s

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

Loss rate: 0.00%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-02-28 07:37:53

End at: 2018-02-28 07:38:23

Local clock offset: 1.058 ms

Remote clock offset: 1.315 ms

Below is generated by plot.py at 2018-02-28 13:07:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 48.99 Mbit/s

95th percentile per-packet one-way delay: 21.299 ms

Loss rate: 0.13%

-- Flow 1:

Average throughput: 24.65 Mbit/s

95th percentile per-packet one-way delay: 21.449 ms

Loss rate: 0.14%

-- Flow 2:

Average throughput: 24.53 Mbit/s

95th percentile per-packet one-way delay: 19.875 ms

Loss rate: 0.11%

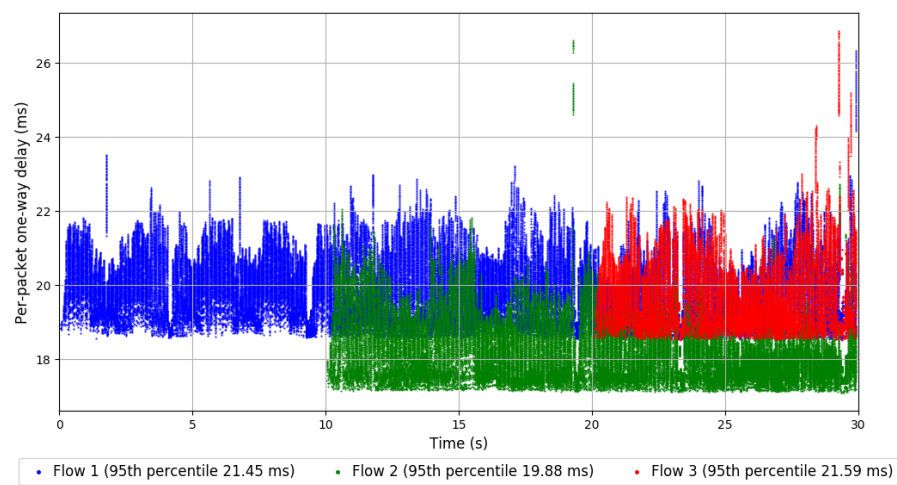
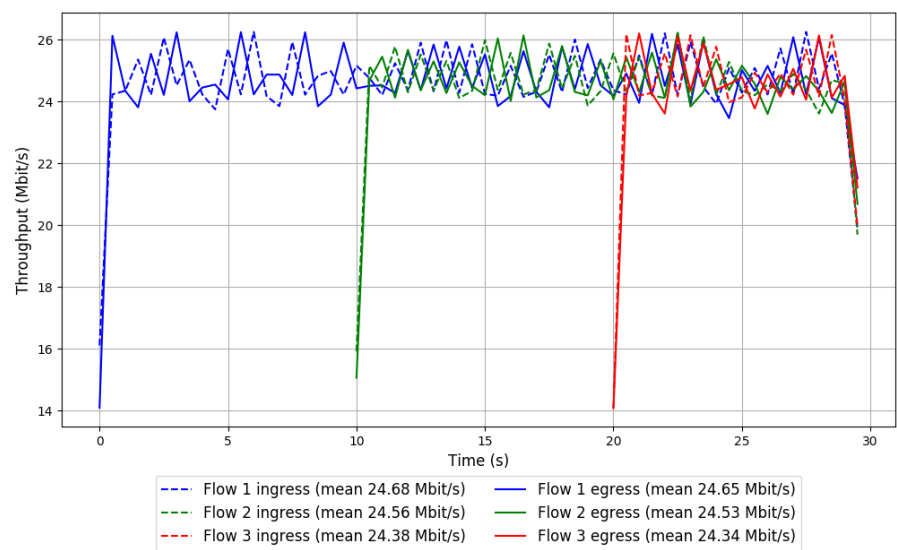
-- Flow 3:

Average throughput: 24.34 Mbit/s

95th percentile per-packet one-way delay: 21.593 ms

Loss rate: 0.15%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-02-28 08:06:41

End at: 2018-02-28 08:07:11

Local clock offset: 1.002 ms

Remote clock offset: 3.26 ms

Below is generated by plot.py at 2018-02-28 13:07:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 48.76 Mbit/s

95th percentile per-packet one-way delay: 21.474 ms

Loss rate: 0.25%

-- Flow 1:

Average throughput: 24.58 Mbit/s

95th percentile per-packet one-way delay: 21.515 ms

Loss rate: 0.29%

-- Flow 2:

Average throughput: 24.14 Mbit/s

95th percentile per-packet one-way delay: 20.646 ms

Loss rate: 0.20%

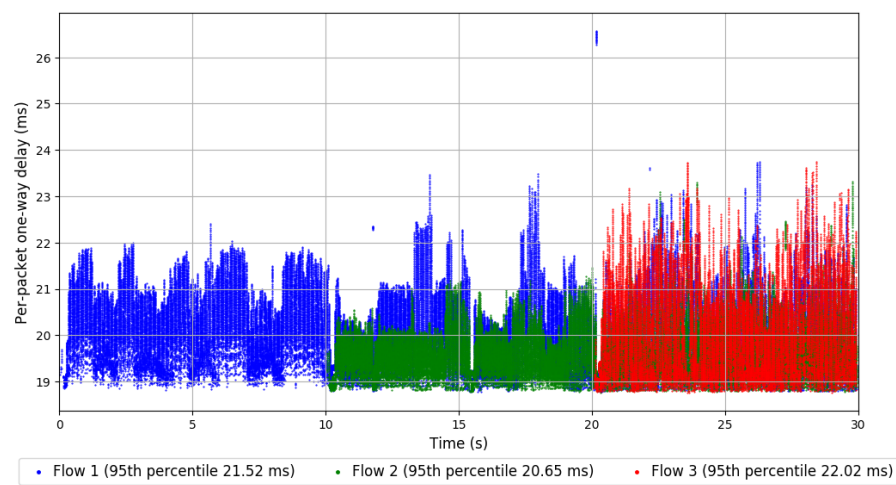
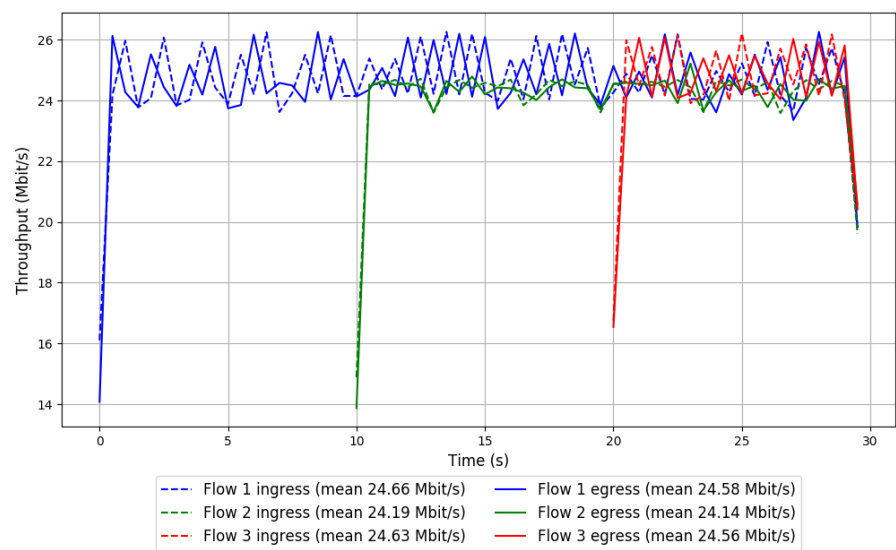
-- Flow 3:

Average throughput: 24.56 Mbit/s

95th percentile per-packet one-way delay: 22.018 ms

Loss rate: 0.26%

Run 7: Report of Sprout — Data Link

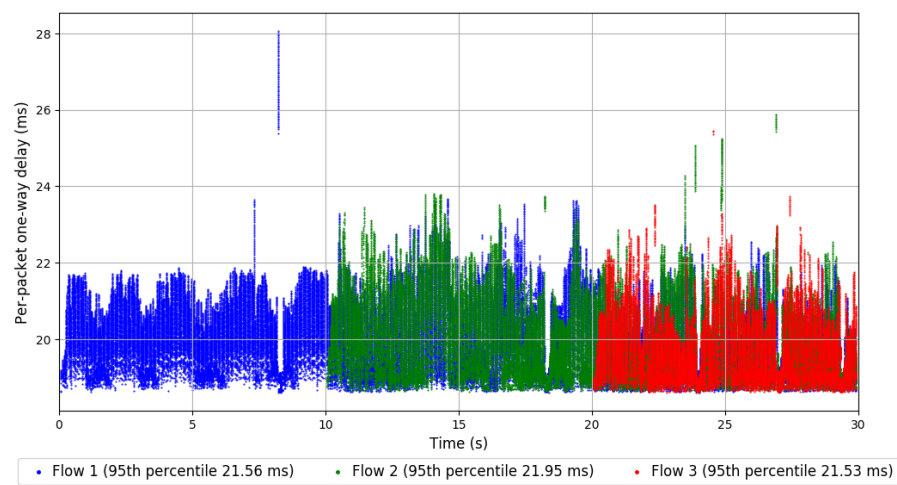
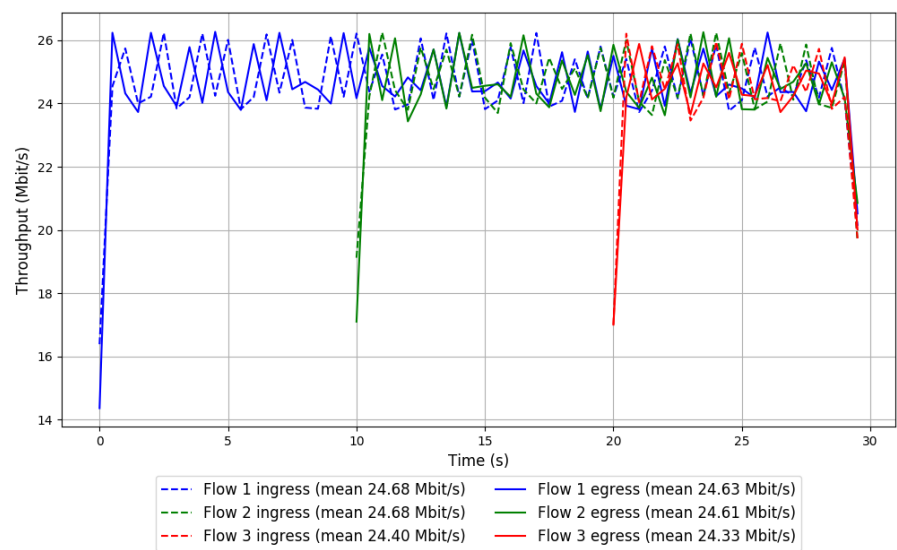


Run 8: Statistics of Sprout

Start at: 2018-02-28 08:35:33
End at: 2018-02-28 08:36:03
Local clock offset: 0.879 ms
Remote clock offset: -0.556 ms

```
# Below is generated by plot.py at 2018-02-28 13:07:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 49.05 Mbit/s
95th percentile per-packet one-way delay: 21.690 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 24.63 Mbit/s
95th percentile per-packet one-way delay: 21.560 ms
Loss rate: 0.22%
-- Flow 2:
Average throughput: 24.61 Mbit/s
95th percentile per-packet one-way delay: 21.951 ms
Loss rate: 0.28%
-- Flow 3:
Average throughput: 24.33 Mbit/s
95th percentile per-packet one-way delay: 21.527 ms
Loss rate: 0.28%
```

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-02-28 09:04:29

End at: 2018-02-28 09:04:59

Local clock offset: 0.672 ms

Remote clock offset: 0.993 ms

Below is generated by plot.py at 2018-02-28 13:07:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 49.10 Mbit/s

95th percentile per-packet one-way delay: 21.526 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 24.69 Mbit/s

95th percentile per-packet one-way delay: 21.480 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 24.56 Mbit/s

95th percentile per-packet one-way delay: 21.806 ms

Loss rate: 0.16%

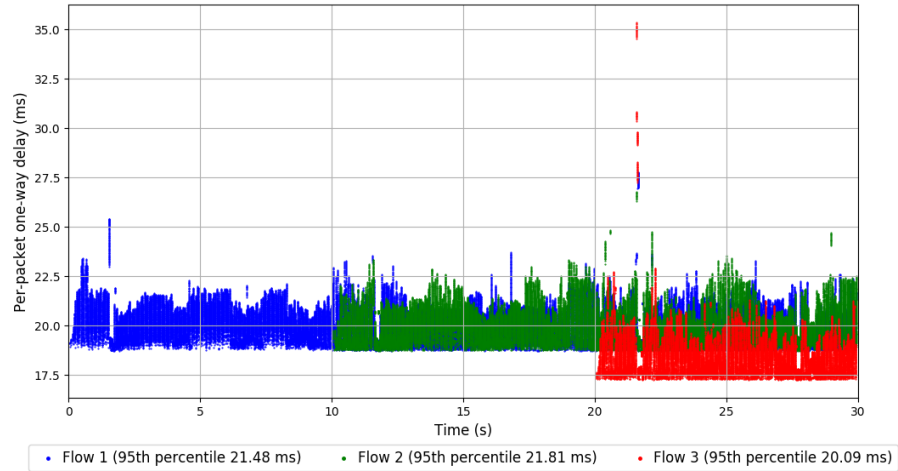
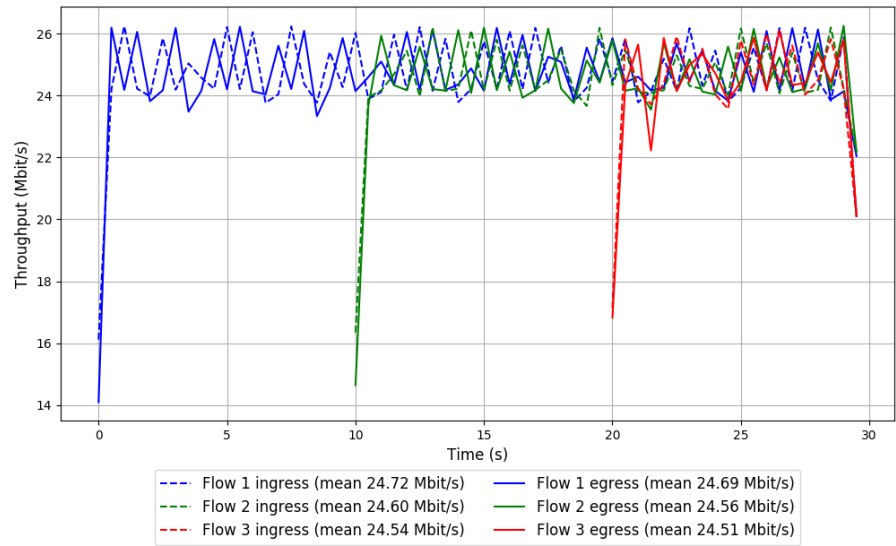
-- Flow 3:

Average throughput: 24.51 Mbit/s

95th percentile per-packet one-way delay: 20.092 ms

Loss rate: 0.10%

Run 9: Report of Sprout — Data Link

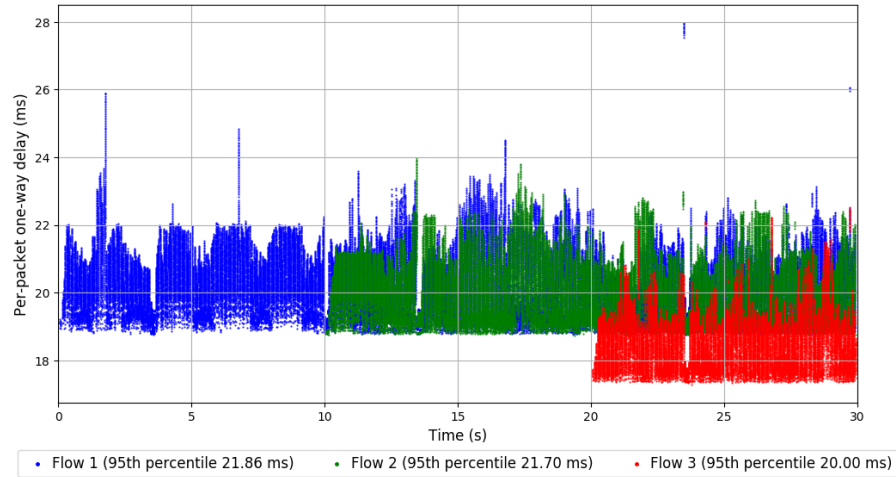
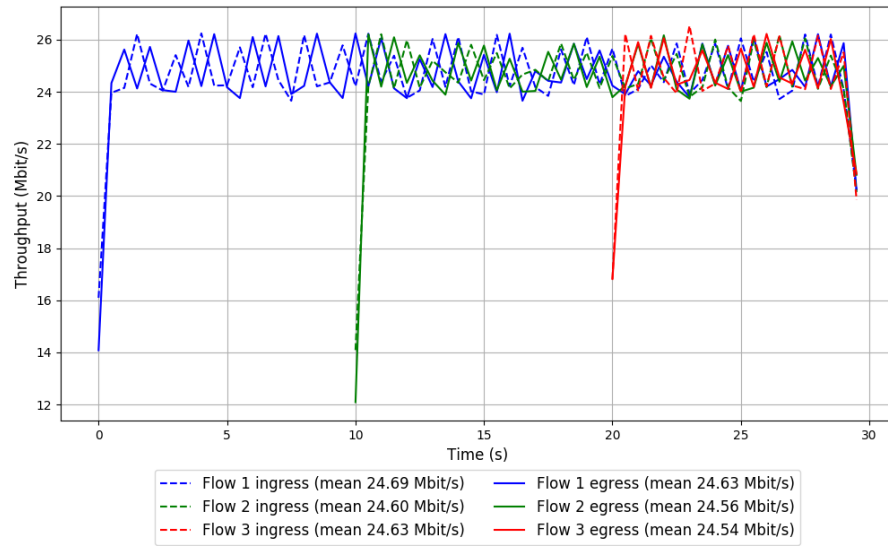


Run 10: Statistics of Sprout

Start at: 2018-02-28 09:37:17
End at: 2018-02-28 09:37:47
Local clock offset: 0.808 ms
Remote clock offset: -0.039 ms

Below is generated by plot.py at 2018-02-28 13:07:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 49.07 Mbit/s
95th percentile per-packet one-way delay: 21.721 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 24.63 Mbit/s
95th percentile per-packet one-way delay: 21.861 ms
Loss rate: 0.22%
-- Flow 2:
Average throughput: 24.56 Mbit/s
95th percentile per-packet one-way delay: 21.696 ms
Loss rate: 0.17%
-- Flow 3:
Average throughput: 24.54 Mbit/s
95th percentile per-packet one-way delay: 19.995 ms
Loss rate: 0.37%

Run 10: Report of Sprout — Data Link

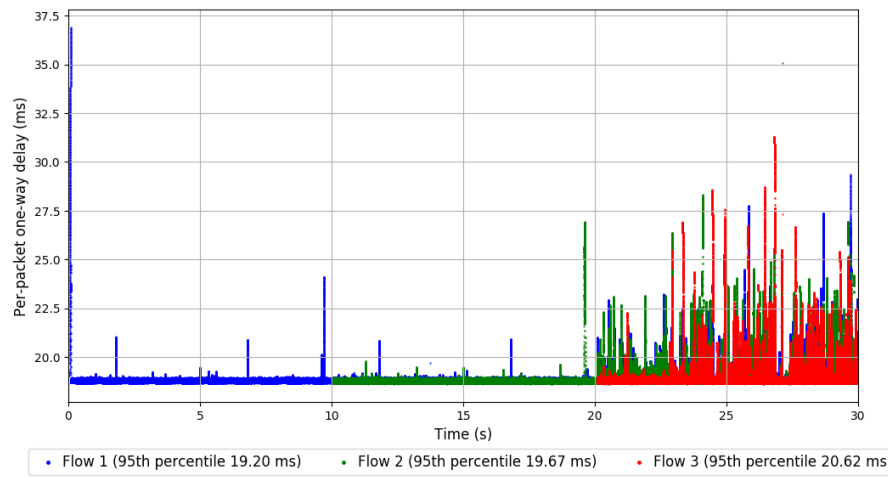
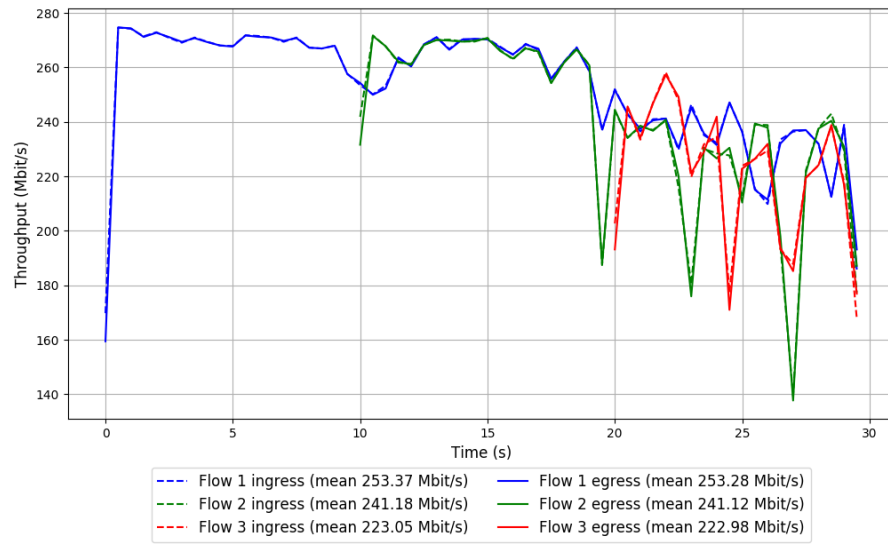


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-02-28 05:05:25
End at: 2018-02-28 05:05:55
Local clock offset: 1.471 ms
Remote clock offset: -4.577 ms

# Below is generated by plot.py at 2018-02-28 13:14:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 487.76 Mbit/s
95th percentile per-packet one-way delay: 19.596 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 253.28 Mbit/s
95th percentile per-packet one-way delay: 19.199 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 241.12 Mbit/s
95th percentile per-packet one-way delay: 19.666 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 222.98 Mbit/s
95th percentile per-packet one-way delay: 20.621 ms
Loss rate: 0.03%
```


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

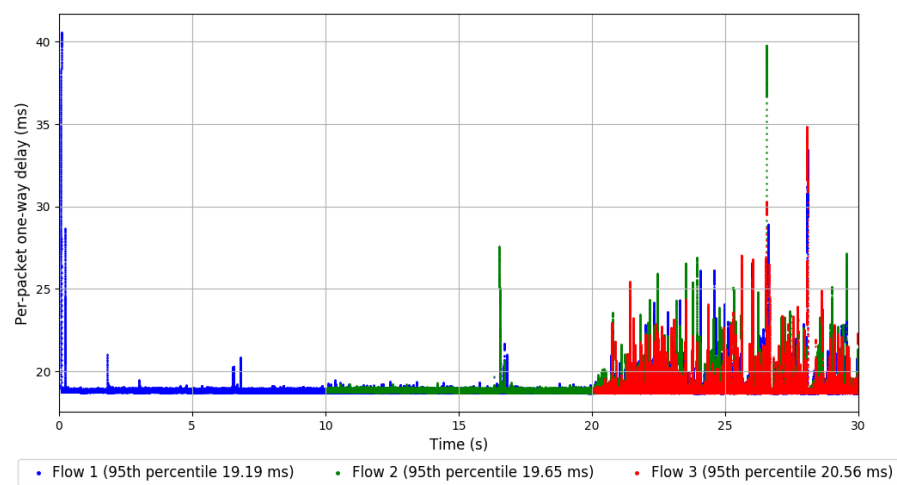
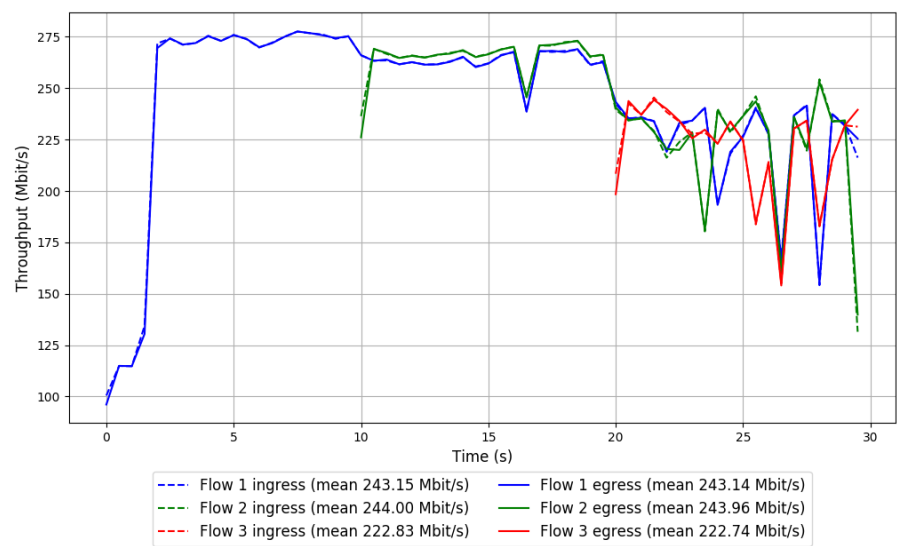


```
Run 2: Statistics of TaoVA-100x

Start at: 2018-02-28 05:34:27
End at: 2018-02-28 05:34:57
Local clock offset: 1.362 ms
Remote clock offset: 0.282 ms

# Below is generated by plot.py at 2018-02-28 13:14:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 479.35 Mbit/s
95th percentile per-packet one-way delay: 19.563 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 243.14 Mbit/s
95th percentile per-packet one-way delay: 19.187 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 243.96 Mbit/s
95th percentile per-packet one-way delay: 19.651 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 222.74 Mbit/s
95th percentile per-packet one-way delay: 20.564 ms
Loss rate: 0.04%
```

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-02-28 06:03:42

End at: 2018-02-28 06:04:12

Local clock offset: 1.114 ms

Remote clock offset: 0.558 ms

Below is generated by plot.py at 2018-02-28 13:14:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 485.32 Mbit/s

95th percentile per-packet one-way delay: 19.110 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 249.72 Mbit/s

95th percentile per-packet one-way delay: 17.861 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 241.32 Mbit/s

95th percentile per-packet one-way delay: 19.715 ms

Loss rate: 0.04%

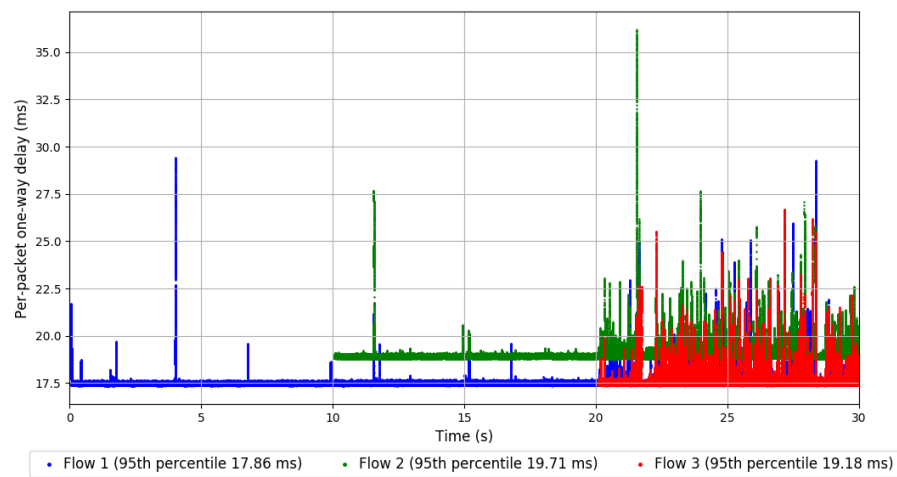
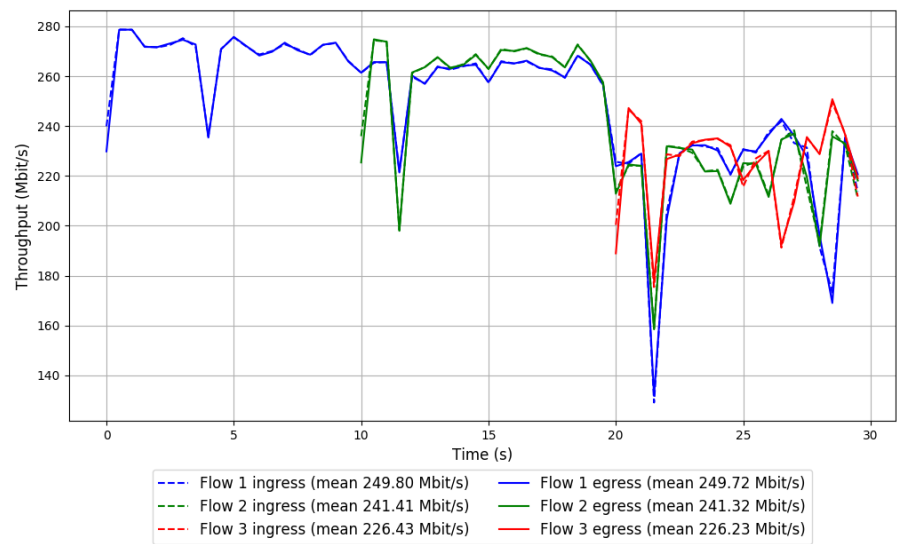
-- Flow 3:

Average throughput: 226.23 Mbit/s

95th percentile per-packet one-way delay: 19.182 ms

Loss rate: 0.09%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-02-28 06:32:49

End at: 2018-02-28 06:33:19

Local clock offset: 0.003 ms

Remote clock offset: 0.281 ms

Below is generated by plot.py at 2018-02-28 13:14:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 490.99 Mbit/s

95th percentile per-packet one-way delay: 19.982 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 247.93 Mbit/s

95th percentile per-packet one-way delay: 19.270 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 247.91 Mbit/s

95th percentile per-packet one-way delay: 20.107 ms

Loss rate: 0.05%

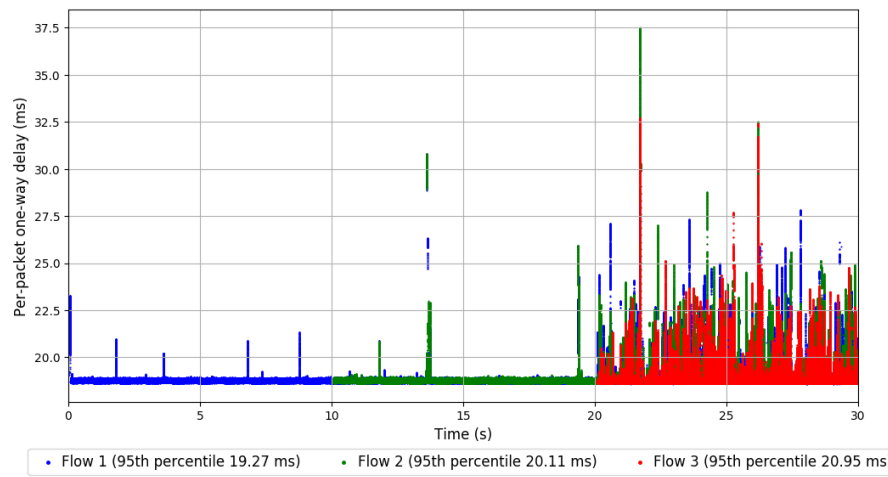
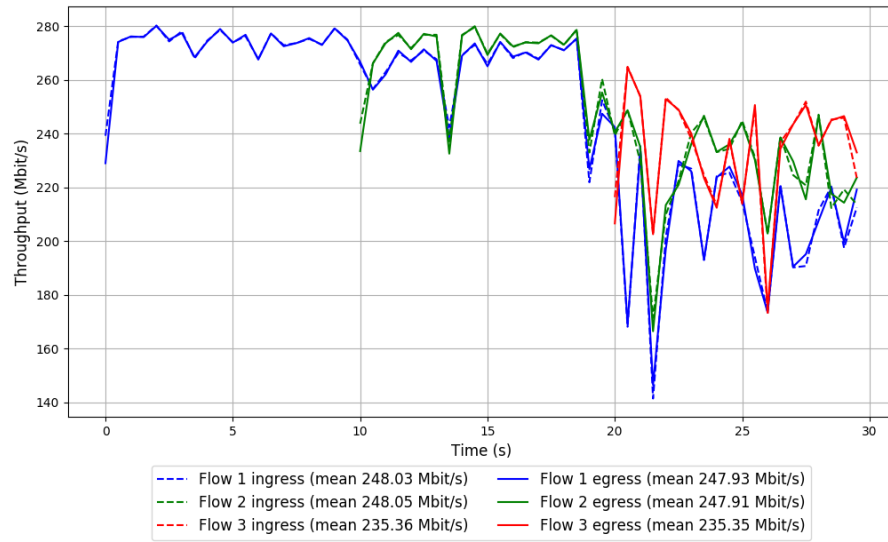
-- Flow 3:

Average throughput: 235.35 Mbit/s

95th percentile per-packet one-way delay: 20.952 ms

Loss rate: 0.00%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-02-28 07:01:47

End at: 2018-02-28 07:02:17

Local clock offset: 0.011 ms

Remote clock offset: 0.385 ms

Below is generated by plot.py at 2018-02-28 13:14:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 497.80 Mbit/s

95th percentile per-packet one-way delay: 19.924 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 257.43 Mbit/s

95th percentile per-packet one-way delay: 19.477 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 247.71 Mbit/s

95th percentile per-packet one-way delay: 19.934 ms

Loss rate: 0.02%

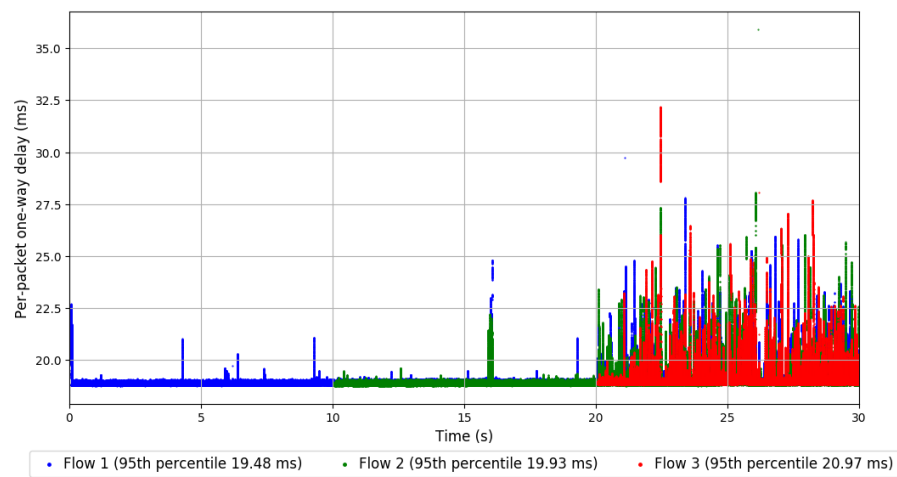
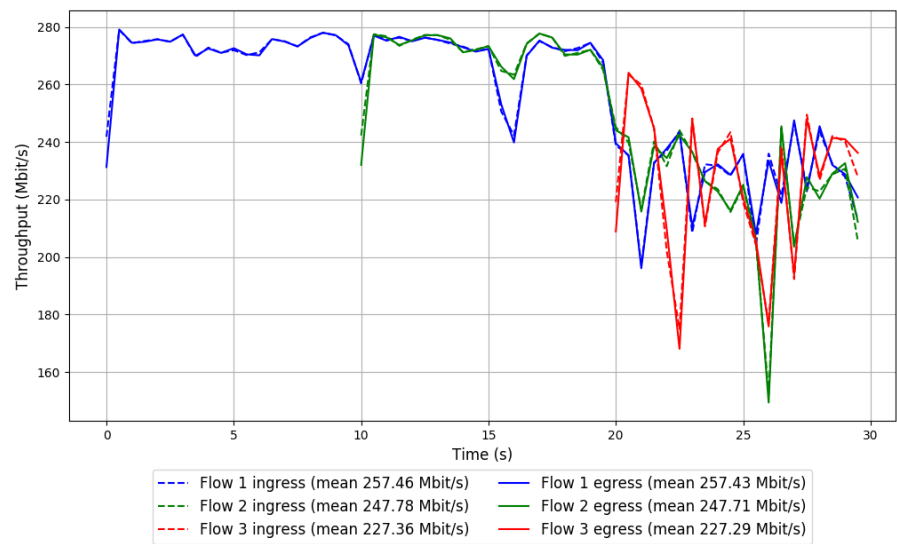
-- Flow 3:

Average throughput: 227.29 Mbit/s

95th percentile per-packet one-way delay: 20.973 ms

Loss rate: 0.03%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-02-28 07:31:10

End at: 2018-02-28 07:31:40

Local clock offset: 1.198 ms

Remote clock offset: 0.673 ms

Below is generated by plot.py at 2018-02-28 13:15:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 495.35 Mbit/s

95th percentile per-packet one-way delay: 19.277 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 254.08 Mbit/s

95th percentile per-packet one-way delay: 17.823 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 241.80 Mbit/s

95th percentile per-packet one-way delay: 19.721 ms

Loss rate: 0.02%

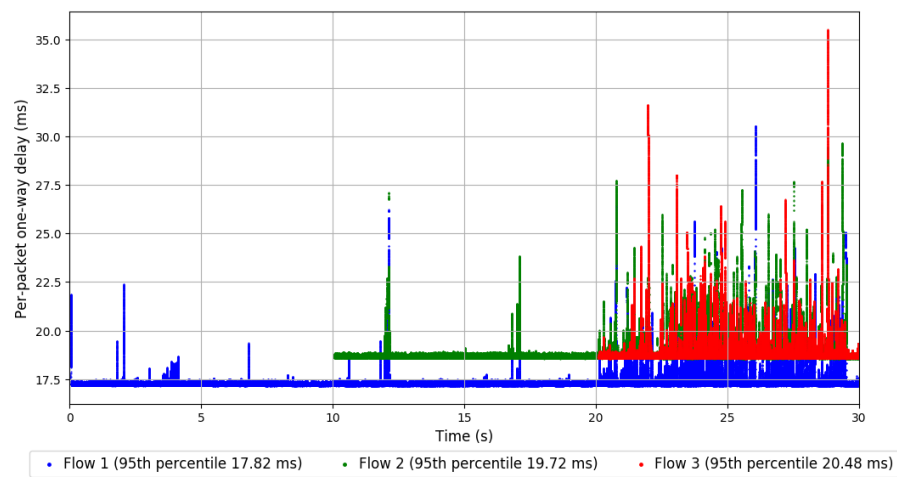
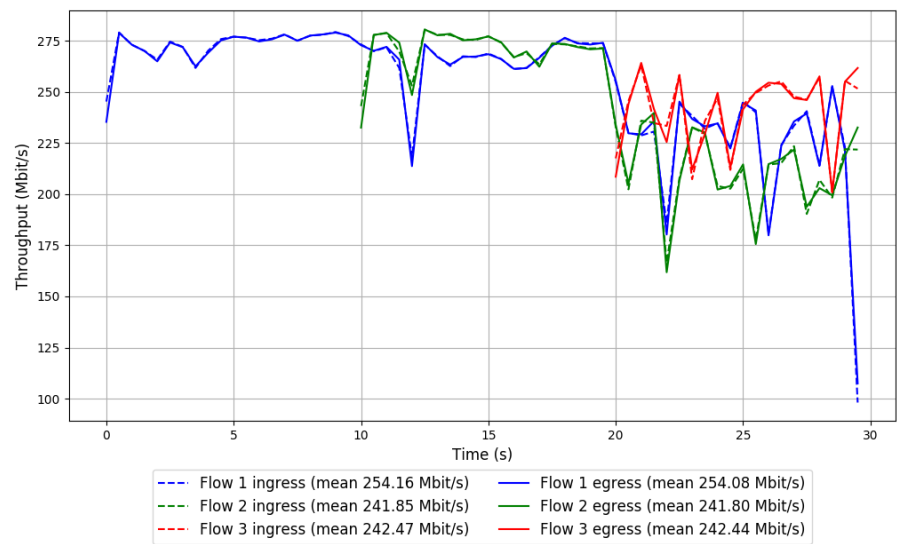
-- Flow 3:

Average throughput: 242.44 Mbit/s

95th percentile per-packet one-way delay: 20.481 ms

Loss rate: 0.01%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-02-28 07:59:59

End at: 2018-02-28 08:00:29

Local clock offset: 1.036 ms

Remote clock offset: 2.92 ms

Below is generated by plot.py at 2018-02-28 13:21:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 492.01 Mbit/s

95th percentile per-packet one-way delay: 19.510 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 254.90 Mbit/s

95th percentile per-packet one-way delay: 19.279 ms

Loss rate: 0.12%

-- Flow 2:

Average throughput: 243.08 Mbit/s

95th percentile per-packet one-way delay: 19.970 ms

Loss rate: 0.13%

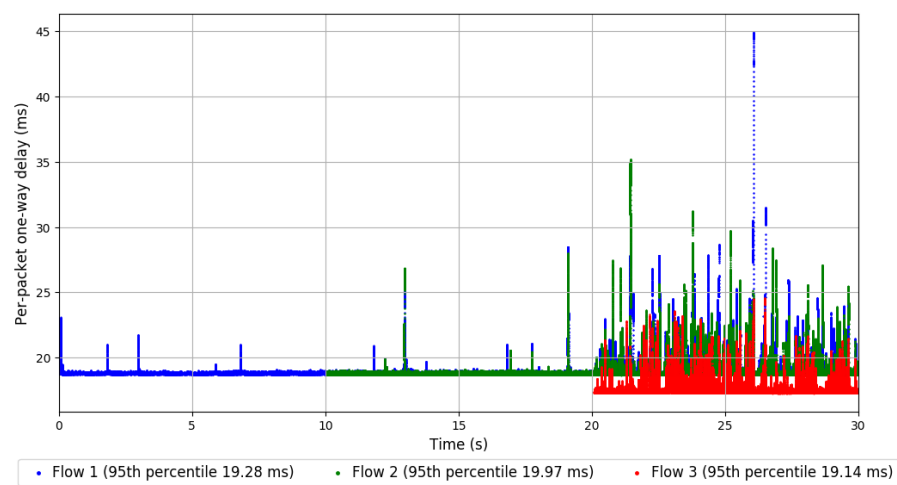
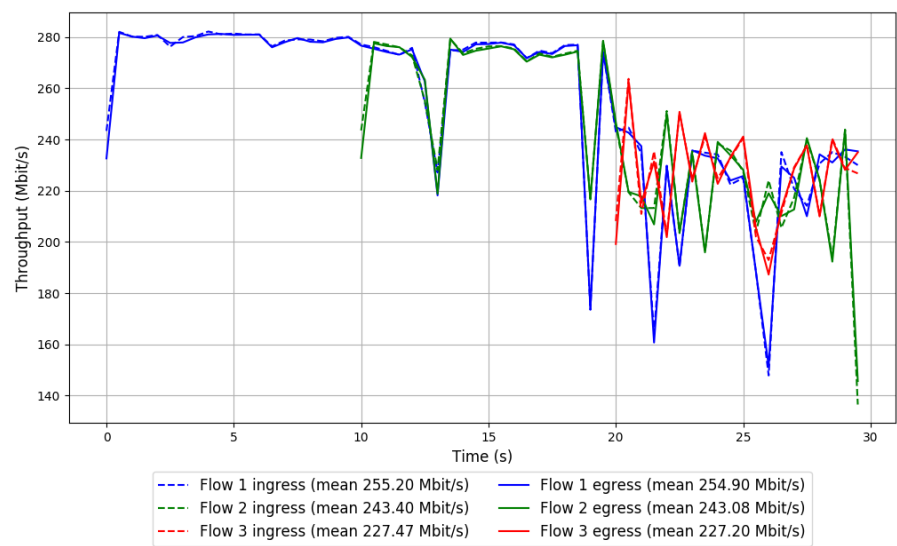
-- Flow 3:

Average throughput: 227.20 Mbit/s

95th percentile per-packet one-way delay: 19.139 ms

Loss rate: 0.12%

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

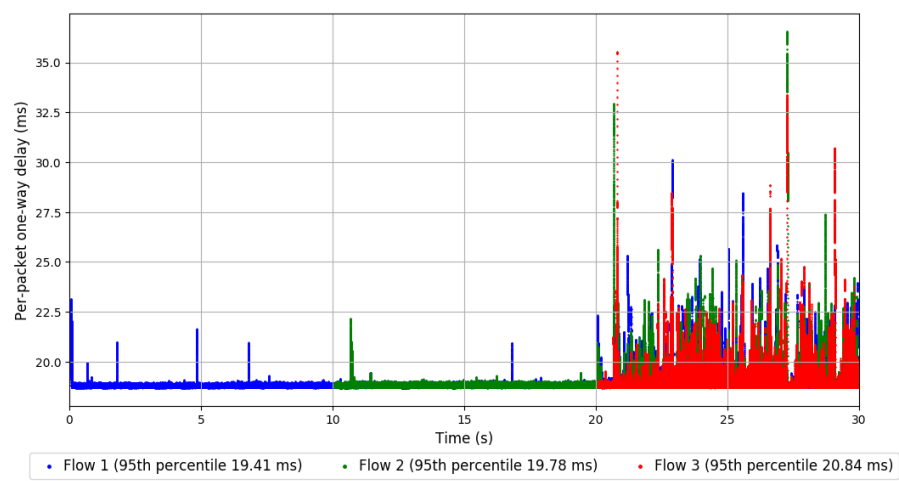
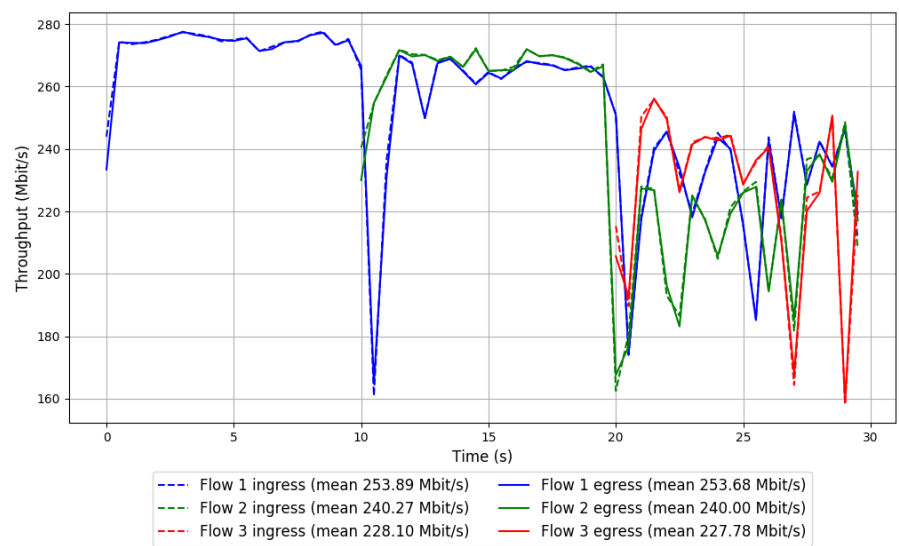


Run 8: Statistics of TaoVA-100x

Start at: 2018-02-28 08:28:51
End at: 2018-02-28 08:29:21
Local clock offset: 0.758 ms
Remote clock offset: -0.208 ms

Below is generated by plot.py at 2018-02-28 13:21:02
Datalink statistics
-- Total of 3 flows:
Average throughput: 488.97 Mbit/s
95th percentile per-packet one-way delay: 19.834 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 253.68 Mbit/s
95th percentile per-packet one-way delay: 19.415 ms
Loss rate: 0.09%
-- Flow 2:
Average throughput: 240.00 Mbit/s
95th percentile per-packet one-way delay: 19.782 ms
Loss rate: 0.11%
-- Flow 3:
Average throughput: 227.78 Mbit/s
95th percentile per-packet one-way delay: 20.839 ms
Loss rate: 0.15%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-02-28 08:57:47

End at: 2018-02-28 08:58:17

Local clock offset: 0.772 ms

Remote clock offset: 0.81 ms

Below is generated by plot.py at 2018-02-28 13:27:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 490.76 Mbit/s

95th percentile per-packet one-way delay: 19.276 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 257.23 Mbit/s

95th percentile per-packet one-way delay: 19.203 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 244.92 Mbit/s

95th percentile per-packet one-way delay: 18.091 ms

Loss rate: 0.03%

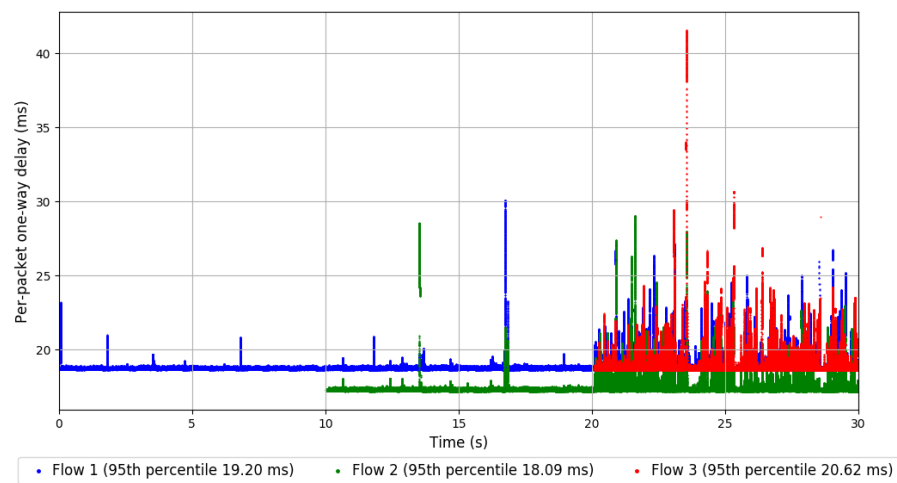
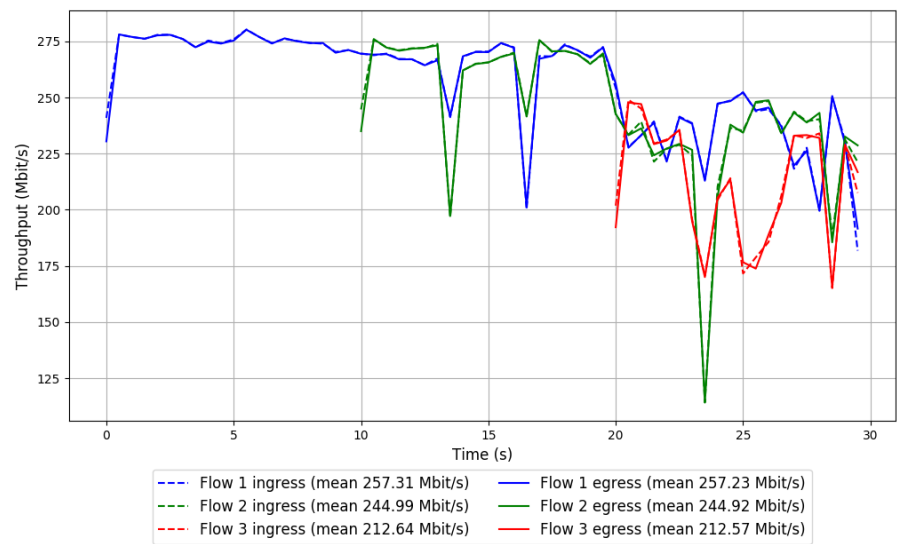
-- Flow 3:

Average throughput: 212.57 Mbit/s

95th percentile per-packet one-way delay: 20.625 ms

Loss rate: 0.03%

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



Run 10: Statistics of TaoVA-100x

Start at: 2018-02-28 09:30:35

End at: 2018-02-28 09:31:05

Local clock offset: 6.328 ms

Remote clock offset: 0.176 ms

Below is generated by plot.py at 2018-02-28 13:27:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 477.28 Mbit/s

95th percentile per-packet one-way delay: 14.148 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 242.84 Mbit/s

95th percentile per-packet one-way delay: 13.789 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 233.40 Mbit/s

95th percentile per-packet one-way delay: 14.066 ms

Loss rate: 0.04%

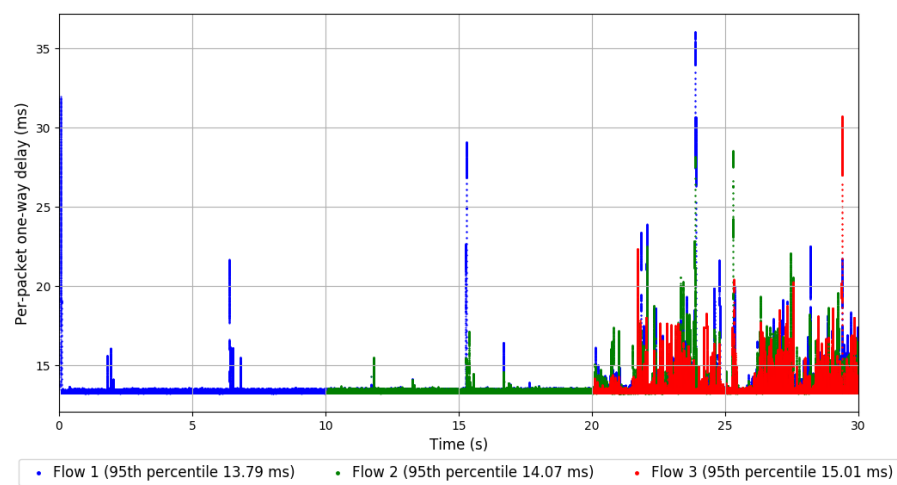
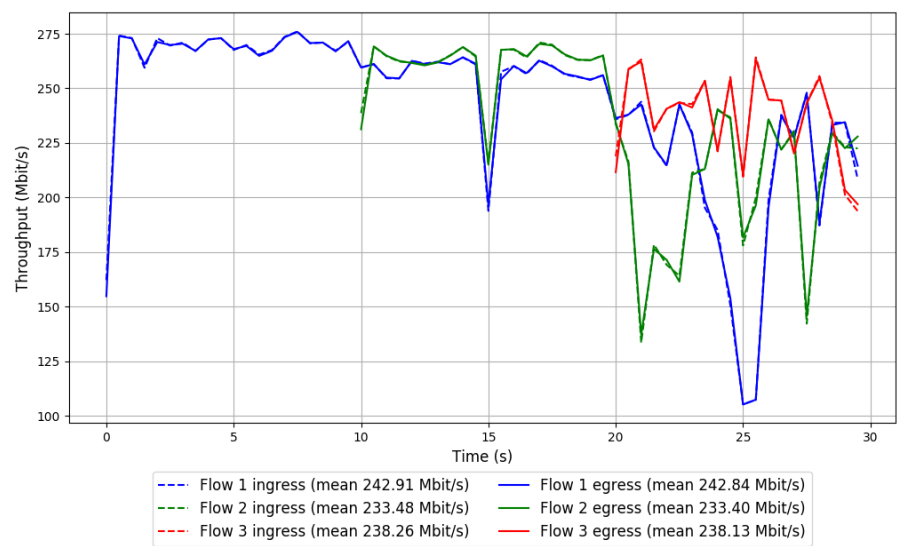
-- Flow 3:

Average throughput: 238.13 Mbit/s

95th percentile per-packet one-way delay: 15.009 ms

Loss rate: 0.07%

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

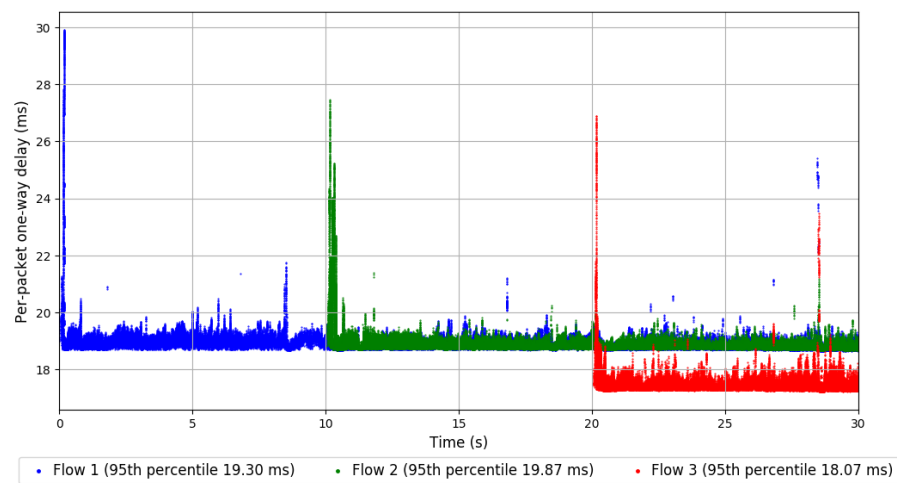
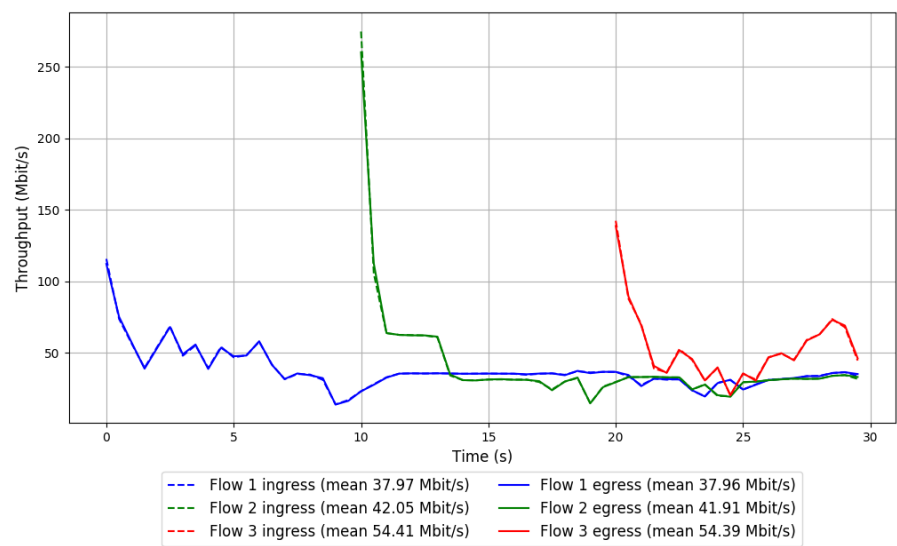


Run 1: Statistics of TCP Vegas

Start at: 2018-02-28 05:16:46
End at: 2018-02-28 05:17:16
Local clock offset: 1.489 ms
Remote clock offset: -4.437 ms

Below is generated by plot.py at 2018-02-28 13:27:14
Datalink statistics
-- Total of 3 flows:
Average throughput: 83.92 Mbit/s
95th percentile per-packet one-way delay: 19.301 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 37.96 Mbit/s
95th percentile per-packet one-way delay: 19.299 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 41.91 Mbit/s
95th percentile per-packet one-way delay: 19.870 ms
Loss rate: 0.32%
-- Flow 3:
Average throughput: 54.39 Mbit/s
95th percentile per-packet one-way delay: 18.075 ms
Loss rate: 0.03%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-02-28 05:45:49

End at: 2018-02-28 05:46:19

Local clock offset: 1.449 ms

Remote clock offset: 1.573 ms

Below is generated by plot.py at 2018-02-28 13:27:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 104.32 Mbit/s

95th percentile per-packet one-way delay: 19.268 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 61.98 Mbit/s

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

Loss rate: 0.01%

-- Flow 2:

Average throughput: 39.22 Mbit/s

95th percentile per-packet one-way delay: 19.179 ms

Loss rate: 0.02%

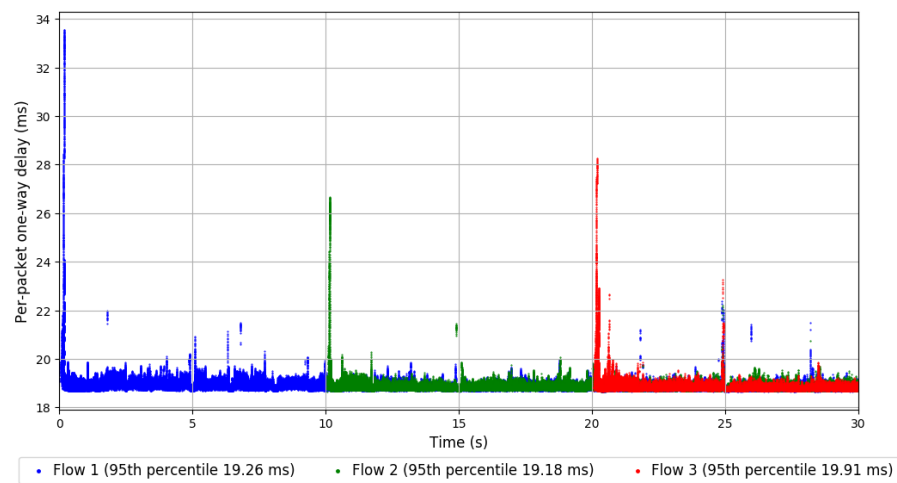
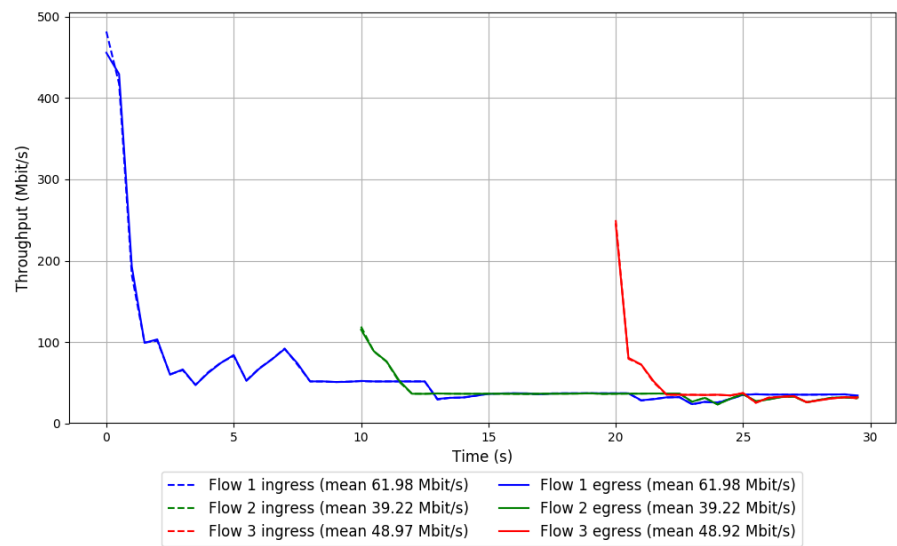
-- Flow 3:

Average throughput: 48.92 Mbit/s

95th percentile per-packet one-way delay: 19.912 ms

Loss rate: 0.12%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-02-28 06:15:02

End at: 2018-02-28 06:15:32

Local clock offset: 1.183 ms

Remote clock offset: 0.418 ms

Below is generated by plot.py at 2018-02-28 13:27:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 200.71 Mbit/s

95th percentile per-packet one-way delay: 19.127 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 52.95 Mbit/s

95th percentile per-packet one-way delay: 19.299 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 135.47 Mbit/s

95th percentile per-packet one-way delay: 17.984 ms

Loss rate: 0.01%

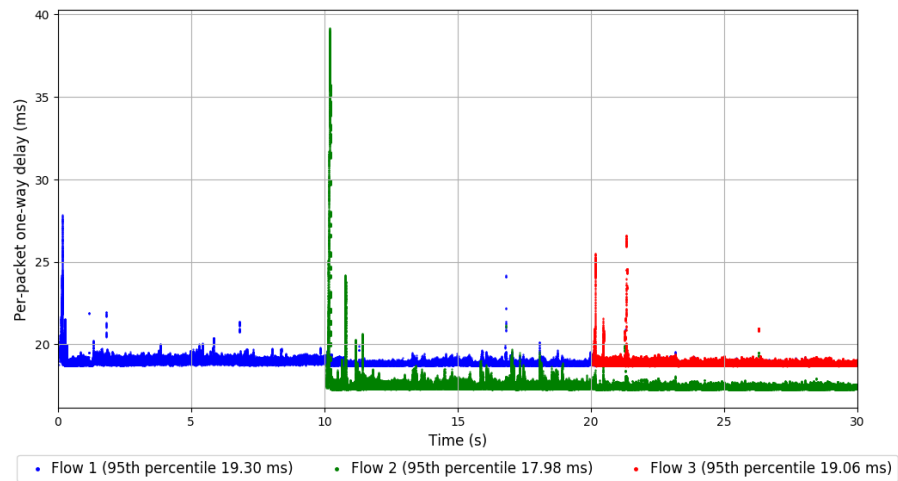
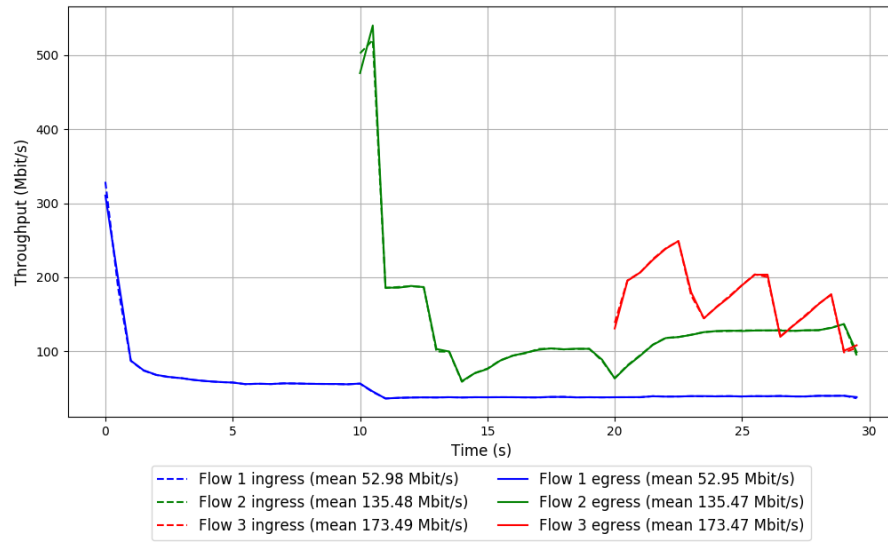
-- Flow 3:

Average throughput: 173.47 Mbit/s

95th percentile per-packet one-way delay: 19.061 ms

Loss rate: 0.01%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-02-28 06:44:09

End at: 2018-02-28 06:44:39

Local clock offset: -0.532 ms

Remote clock offset: 0.151 ms

Below is generated by plot.py at 2018-02-28 13:27:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 111.53 Mbit/s

95th percentile per-packet one-way delay: 19.195 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 48.42 Mbit/s

95th percentile per-packet one-way delay: 19.191 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 58.15 Mbit/s

95th percentile per-packet one-way delay: 19.119 ms

Loss rate: 0.02%

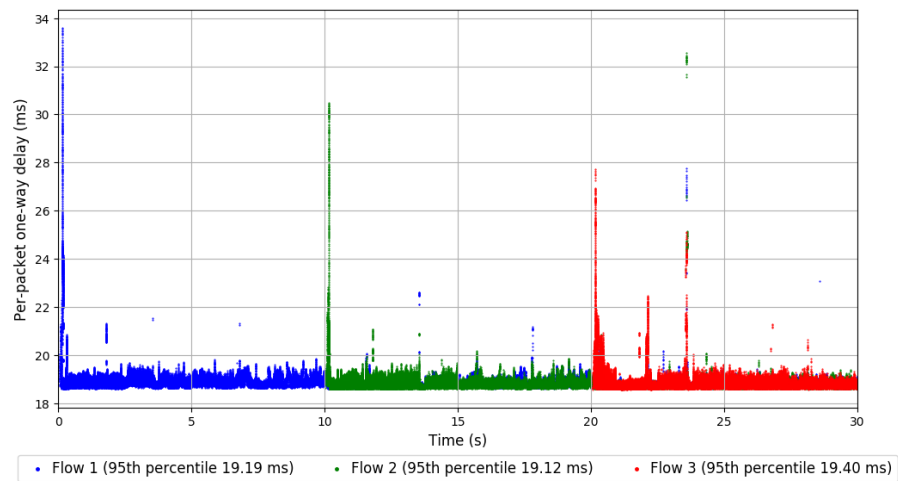
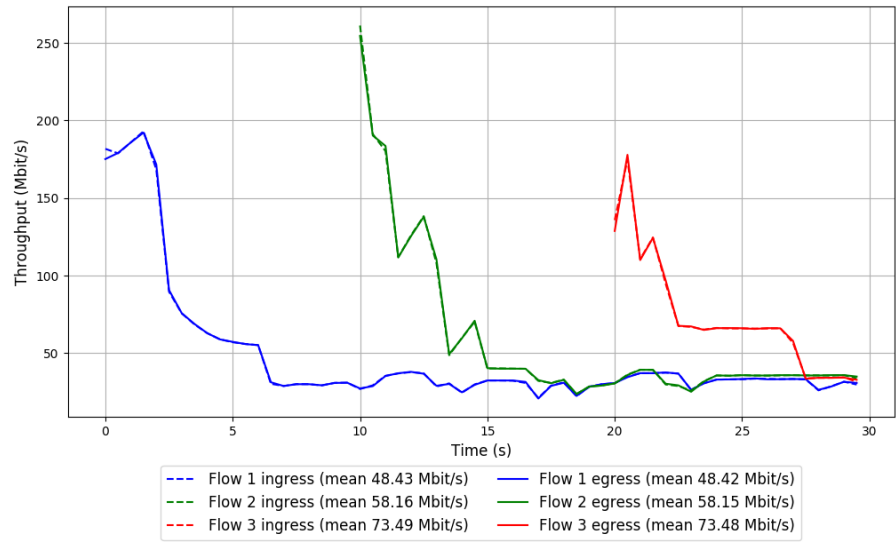
-- Flow 3:

Average throughput: 73.48 Mbit/s

95th percentile per-packet one-way delay: 19.400 ms

Loss rate: 0.01%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-02-28 07:13:08

End at: 2018-02-28 07:13:38

Local clock offset: 0.853 ms

Remote clock offset: 0.412 ms

Below is generated by plot.py at 2018-02-28 13:27:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 145.29 Mbit/s

95th percentile per-packet one-way delay: 19.007 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 81.04 Mbit/s

95th percentile per-packet one-way delay: 17.837 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 71.42 Mbit/s

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

Loss rate: 0.03%

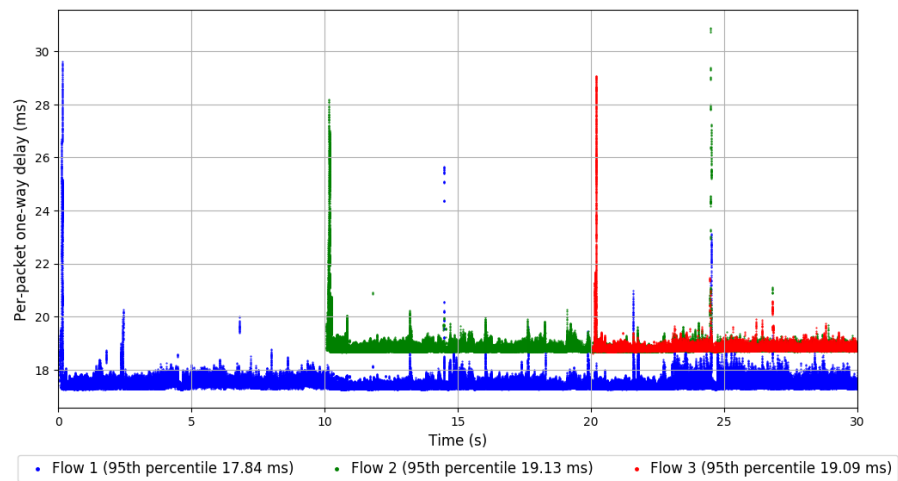
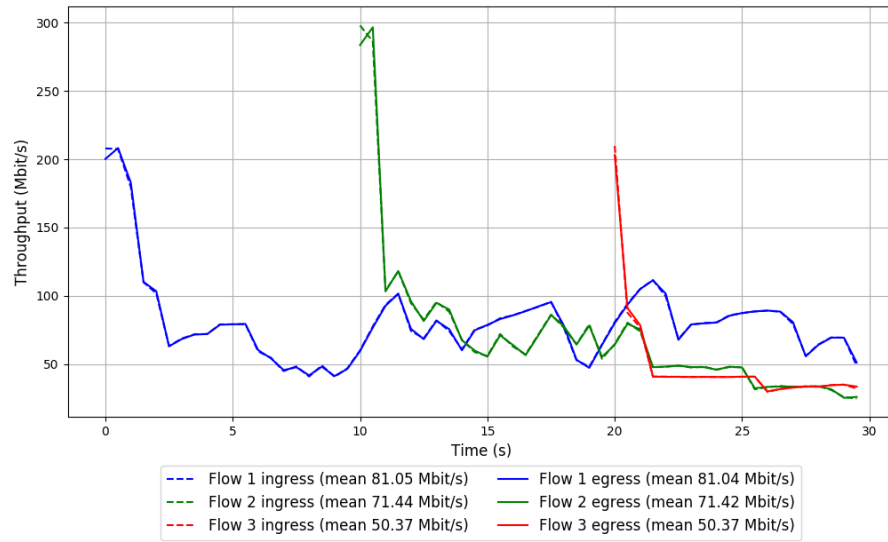
-- Flow 3:

Average throughput: 50.37 Mbit/s

95th percentile per-packet one-way delay: 19.090 ms

Loss rate: 0.01%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-02-28 07:42:31

End at: 2018-02-28 07:43:01

Local clock offset: 0.951 ms

Remote clock offset: 1.831 ms

Below is generated by plot.py at 2018-02-28 13:27:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 81.12 Mbit/s

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

Loss rate: 0.06%

-- Flow 1:

Average throughput: 46.80 Mbit/s

95th percentile per-packet one-way delay: 19.310 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 35.27 Mbit/s

95th percentile per-packet one-way delay: 19.217 ms

Loss rate: 0.05%

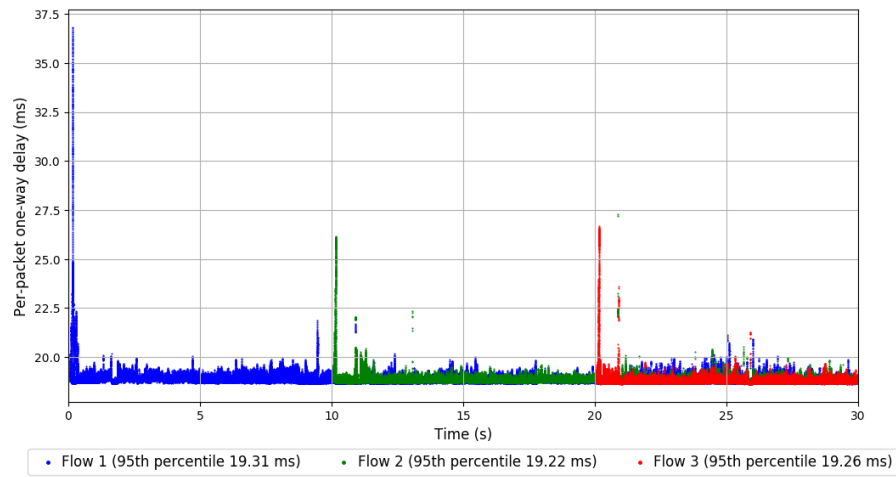
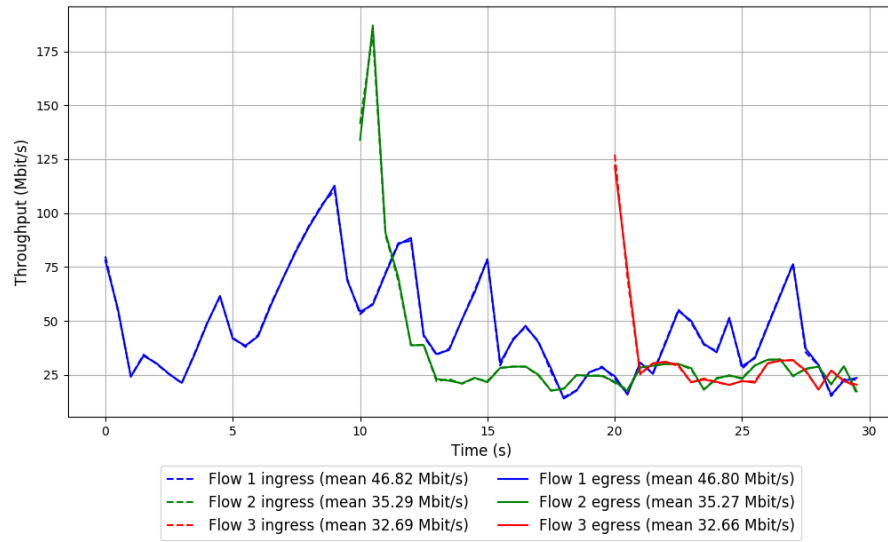
-- Flow 3:

Average throughput: 32.66 Mbit/s

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

Loss rate: 0.11%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-02-28 08:11:19

End at: 2018-02-28 08:11:49

Local clock offset: 0.984 ms

Remote clock offset: 2.187 ms

Below is generated by plot.py at 2018-02-28 13:27:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 63.76 Mbit/s

95th percentile per-packet one-way delay: 19.320 ms

Loss rate: 0.17%

-- Flow 1:

Average throughput: 27.25 Mbit/s

95th percentile per-packet one-way delay: 19.527 ms

Loss rate: 0.27%

-- Flow 2:

Average throughput: 39.38 Mbit/s

95th percentile per-packet one-way delay: 17.936 ms

Loss rate: 0.07%

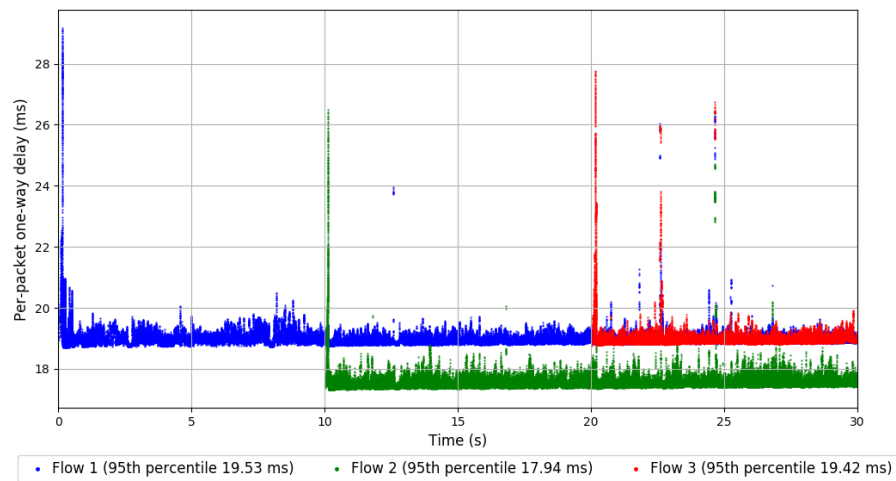
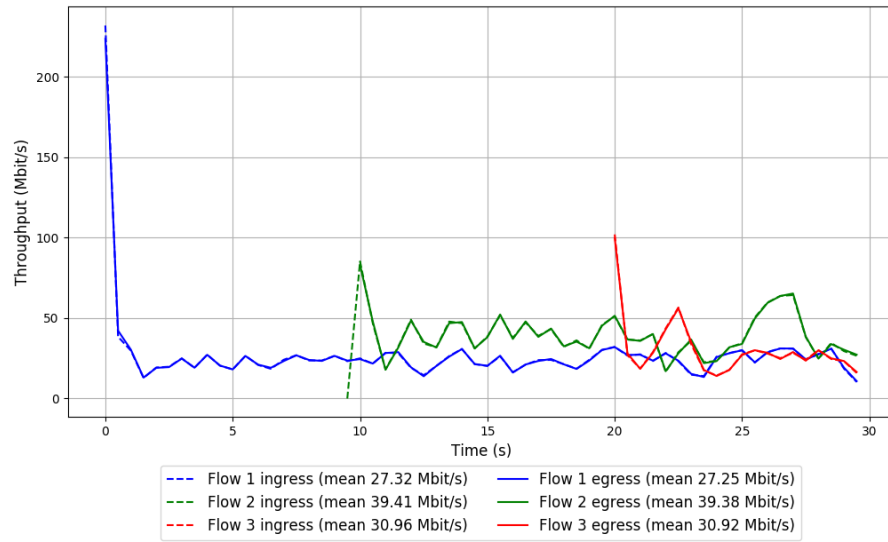
-- Flow 3:

Average throughput: 30.92 Mbit/s

95th percentile per-packet one-way delay: 19.418 ms

Loss rate: 0.14%

Run 7: Report of TCP Vegas — Data Link

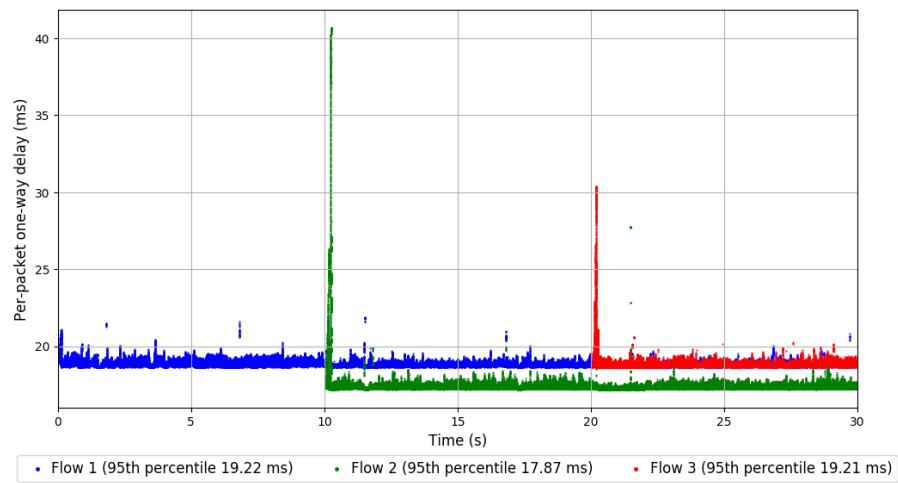
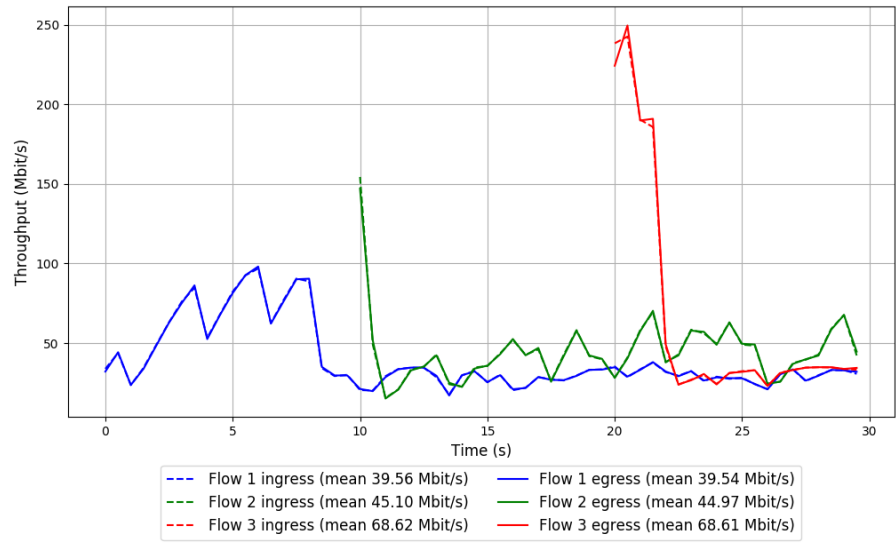


Run 8: Statistics of TCP Vegas

Start at: 2018-02-28 08:40:10
End at: 2018-02-28 08:40:40
Local clock offset: 0.85 ms
Remote clock offset: -0.744 ms

Below is generated by plot.py at 2018-02-28 13:27:14
Datalink statistics
-- Total of 3 flows:
Average throughput: 92.26 Mbit/s
95th percentile per-packet one-way delay: 19.175 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 39.54 Mbit/s
95th percentile per-packet one-way delay: 19.221 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 44.97 Mbit/s
95th percentile per-packet one-way delay: 17.867 ms
Loss rate: 0.29%
-- Flow 3:
Average throughput: 68.61 Mbit/s
95th percentile per-packet one-way delay: 19.209 ms
Loss rate: 0.02%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-02-28 09:09:07

End at: 2018-02-28 09:09:37

Local clock offset: 0.748 ms

Remote clock offset: 1.029 ms

Below is generated by plot.py at 2018-02-28 13:27:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.86 Mbit/s

95th percentile per-packet one-way delay: 20.122 ms

Loss rate: 0.33%

-- Flow 1:

Average throughput: 37.87 Mbit/s

95th percentile per-packet one-way delay: 19.138 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 49.76 Mbit/s

95th percentile per-packet one-way delay: 20.020 ms

Loss rate: 0.16%

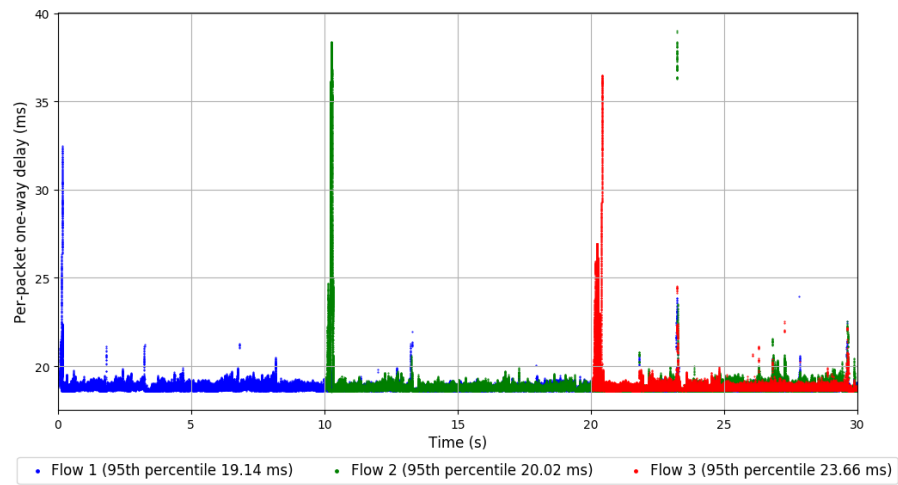
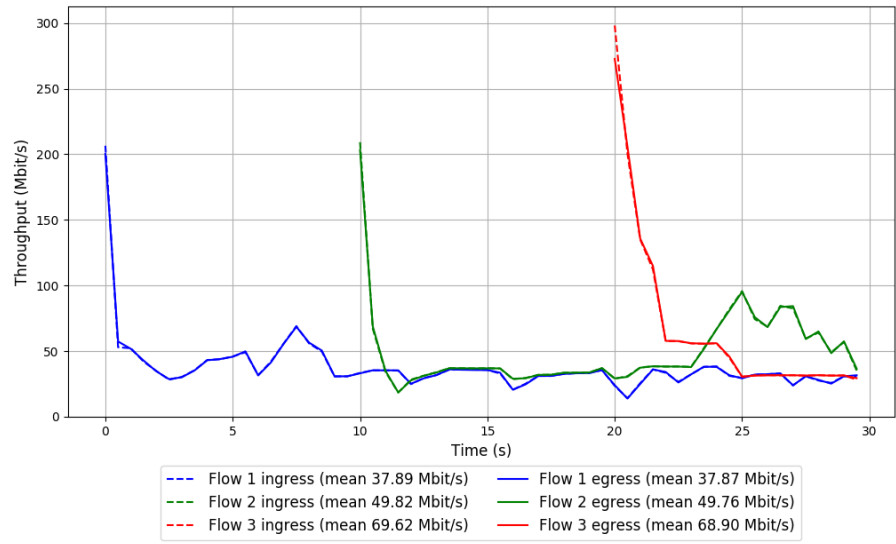
-- Flow 3:

Average throughput: 68.90 Mbit/s

95th percentile per-packet one-way delay: 23.659 ms

Loss rate: 1.04%

Run 9: Report of TCP Vegas — Data Link

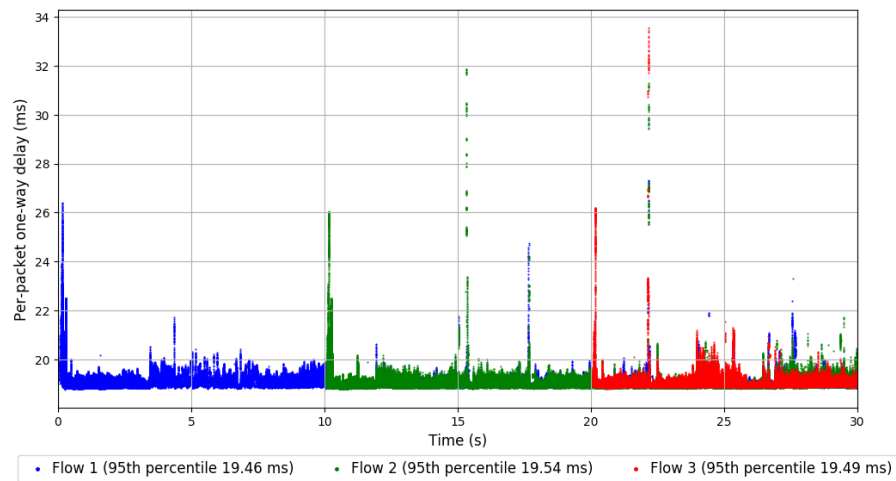
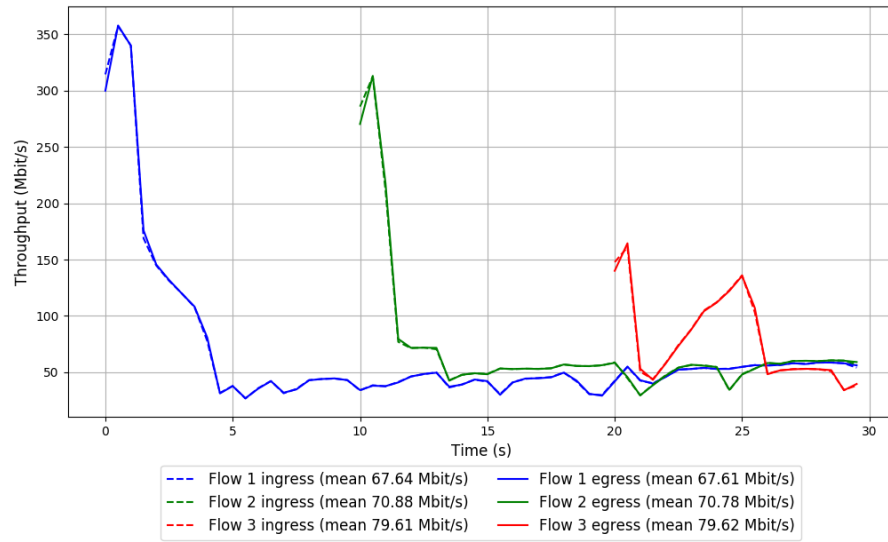


Run 10: Statistics of TCP Vegas

Start at: 2018-02-28 09:41:53
End at: 2018-02-28 09:42:23
Local clock offset: 0.767 ms
Remote clock offset: -0.104 ms

Below is generated by plot.py at 2018-02-28 13:27:14
Datalink statistics
-- Total of 3 flows:
Average throughput: 141.20 Mbit/s
95th percentile per-packet one-way delay: 19.483 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 67.61 Mbit/s
95th percentile per-packet one-way delay: 19.456 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 70.78 Mbit/s
95th percentile per-packet one-way delay: 19.543 ms
Loss rate: 0.13%
-- Flow 3:
Average throughput: 79.62 Mbit/s
95th percentile per-packet one-way delay: 19.489 ms
Loss rate: 0.01%

Run 10: Report of TCP Vegas — Data Link

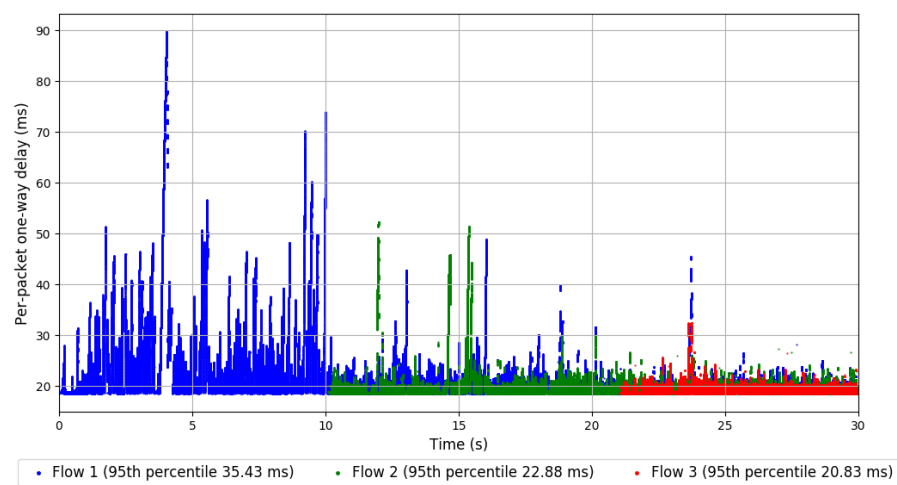
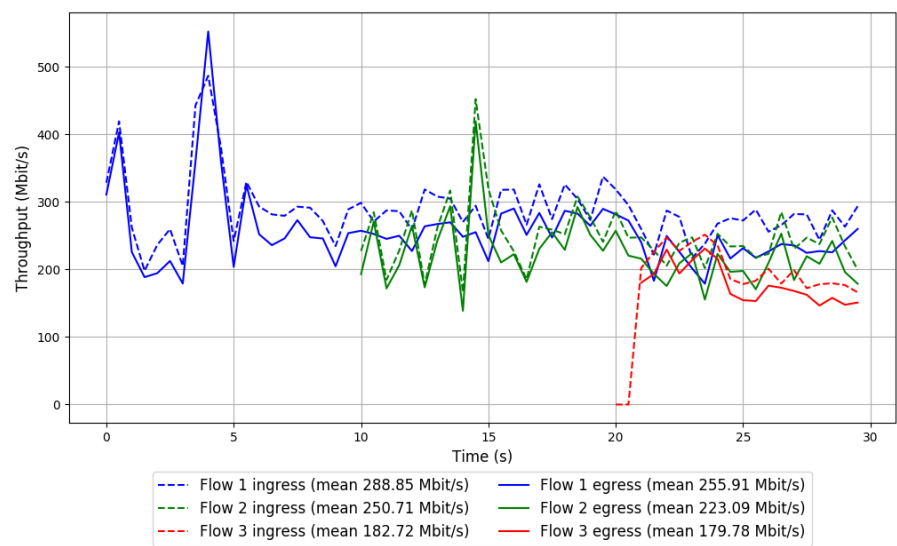


Run 1: Statistics of Verus

Start at: 2018-02-28 04:56:21
End at: 2018-02-28 04:56:51
Local clock offset: 1.546 ms
Remote clock offset: -4.739 ms

Below is generated by plot.py at 2018-02-28 13:27:14
Datalink statistics
-- Total of 3 flows:
Average throughput: 457.39 Mbit/s
95th percentile per-packet one-way delay: 30.933 ms
Loss rate: 11.29%
-- Flow 1:
Average throughput: 255.91 Mbit/s
95th percentile per-packet one-way delay: 35.431 ms
Loss rate: 11.40%
-- Flow 2:
Average throughput: 223.09 Mbit/s
95th percentile per-packet one-way delay: 22.876 ms
Loss rate: 11.02%
-- Flow 3:
Average throughput: 179.78 Mbit/s
95th percentile per-packet one-way delay: 20.827 ms
Loss rate: 11.52%

Run 1: Report of Verus — Data Link

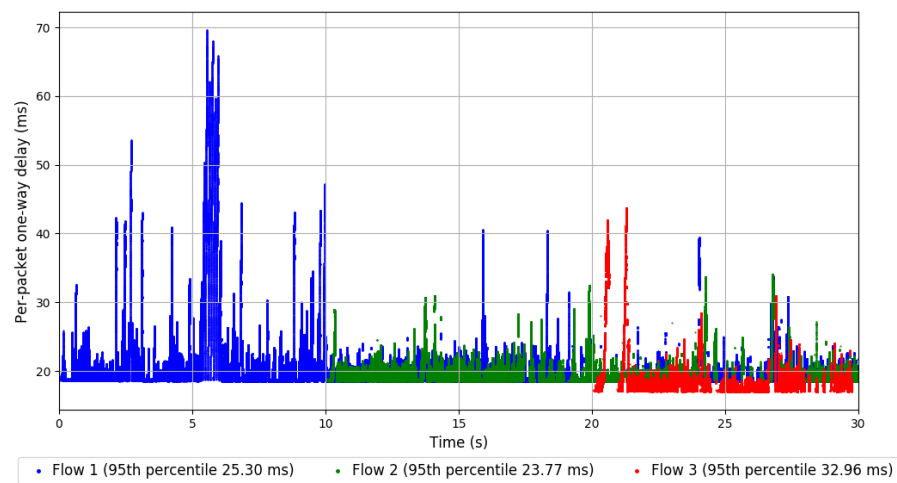
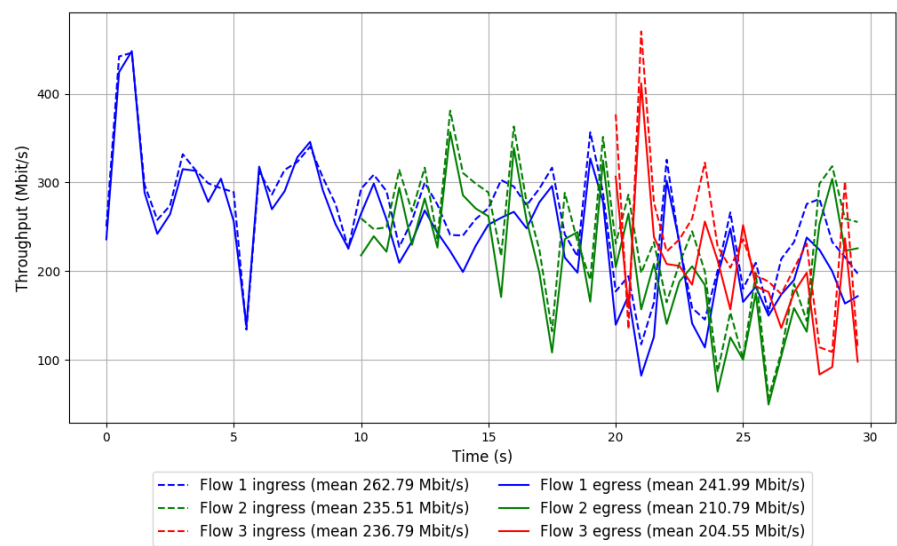


Run 2: Statistics of Verus

Start at: 2018-02-28 05:25:00
End at: 2018-02-28 05:25:30
Local clock offset: 1.33 ms
Remote clock offset: -1.666 ms

Below is generated by plot.py at 2018-02-28 13:27:14
Datalink statistics
-- Total of 3 flows:
Average throughput: 448.51 Mbit/s
95th percentile per-packet one-way delay: 25.361 ms
Loss rate: 9.60%
-- Flow 1:
Average throughput: 241.99 Mbit/s
95th percentile per-packet one-way delay: 25.305 ms
Loss rate: 7.91%
-- Flow 2:
Average throughput: 210.79 Mbit/s
95th percentile per-packet one-way delay: 23.775 ms
Loss rate: 10.48%
-- Flow 3:
Average throughput: 204.55 Mbit/s
95th percentile per-packet one-way delay: 32.962 ms
Loss rate: 13.60%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-02-28 05:54:00

End at: 2018-02-28 05:54:30

Local clock offset: 1.338 ms

Remote clock offset: 1.511 ms

Below is generated by plot.py at 2018-02-28 13:27:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 414.37 Mbit/s

95th percentile per-packet one-way delay: 28.126 ms

Loss rate: 12.51%

-- Flow 1:

Average throughput: 222.77 Mbit/s

95th percentile per-packet one-way delay: 34.545 ms

Loss rate: 14.14%

-- Flow 2:

Average throughput: 215.10 Mbit/s

95th percentile per-packet one-way delay: 22.497 ms

Loss rate: 10.48%

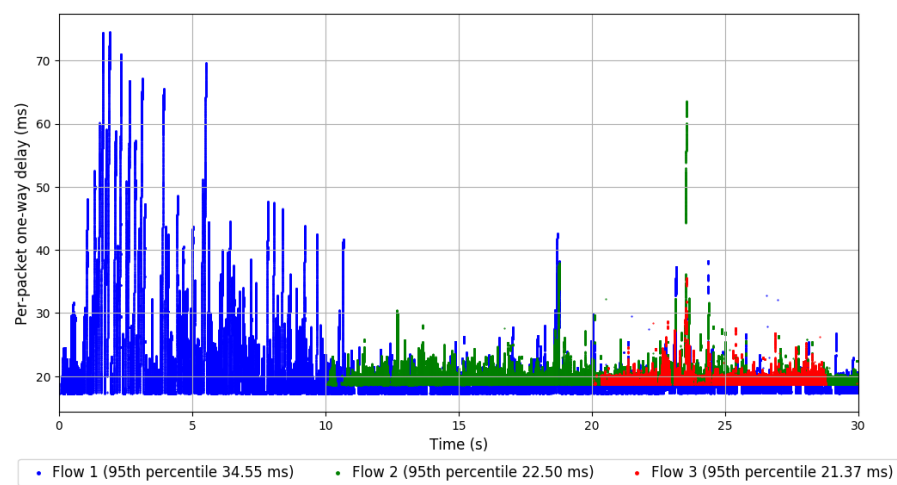
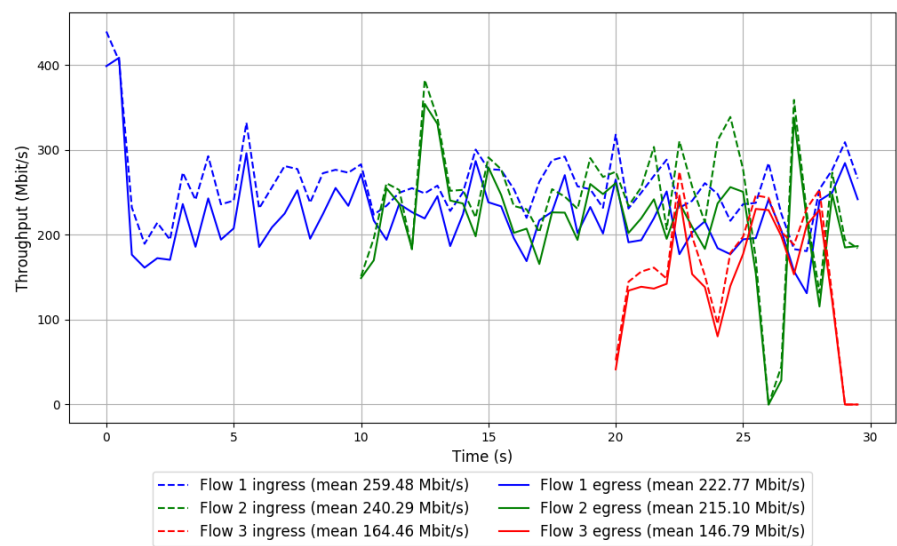
-- Flow 3:

Average throughput: 146.79 Mbit/s

95th percentile per-packet one-way delay: 21.367 ms

Loss rate: 10.75%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-02-28 06:23:22

End at: 2018-02-28 06:23:52

Local clock offset: 1.024 ms

Remote clock offset: 0.527 ms

Below is generated by plot.py at 2018-02-28 13:27:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 409.78 Mbit/s

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

Loss rate: 13.70%

-- Flow 1:

Average throughput: 220.25 Mbit/s

95th percentile per-packet one-way delay: 44.086 ms

Loss rate: 12.90%

-- Flow 2:

Average throughput: 196.42 Mbit/s

95th percentile per-packet one-way delay: 22.995 ms

Loss rate: 15.02%

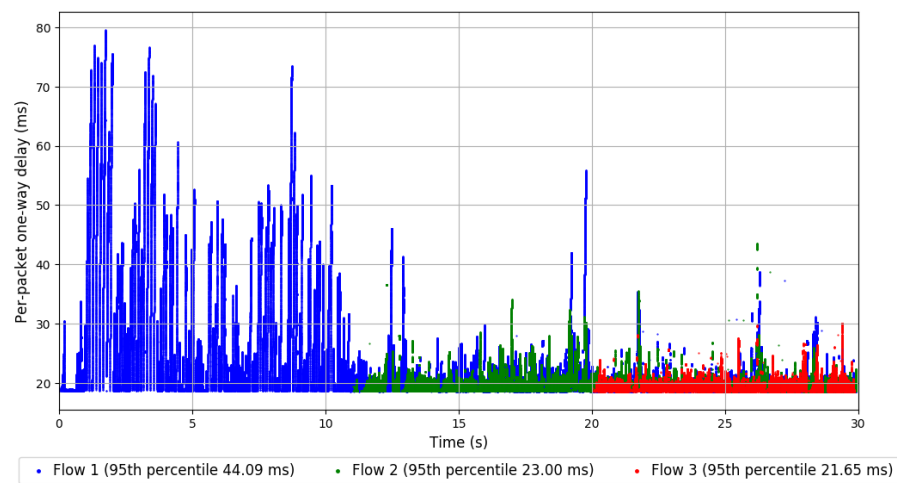
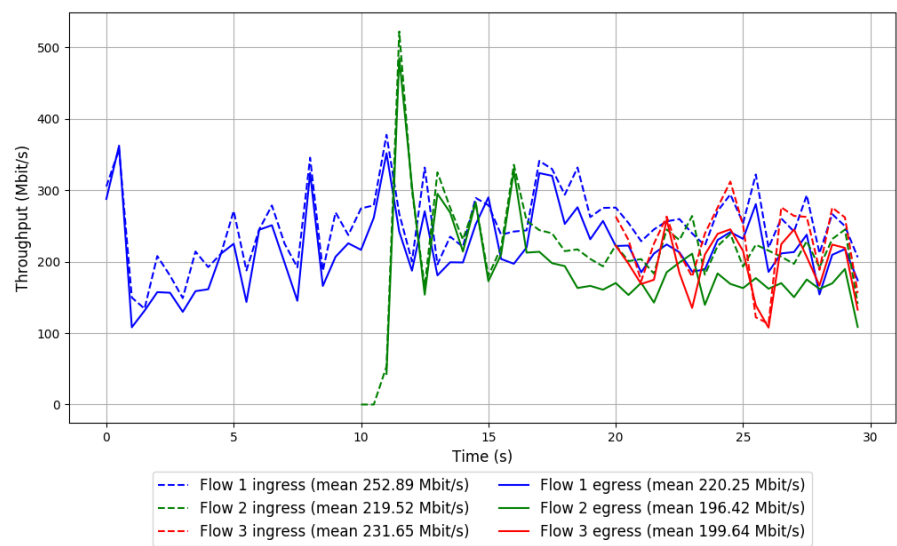
-- Flow 3:

Average throughput: 199.64 Mbit/s

95th percentile per-packet one-way delay: 21.653 ms

Loss rate: 13.83%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-02-28 06:52:26

End at: 2018-02-28 06:52:56

Local clock offset: -0.736 ms

Remote clock offset: 0.319 ms

Below is generated by plot.py at 2018-02-28 13:27:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 442.65 Mbit/s

95th percentile per-packet one-way delay: 35.752 ms

Loss rate: 12.59%

-- Flow 1:

Average throughput: 232.62 Mbit/s

95th percentile per-packet one-way delay: 40.512 ms

Loss rate: 11.80%

-- Flow 2:

Average throughput: 213.14 Mbit/s

95th percentile per-packet one-way delay: 27.362 ms

Loss rate: 13.87%

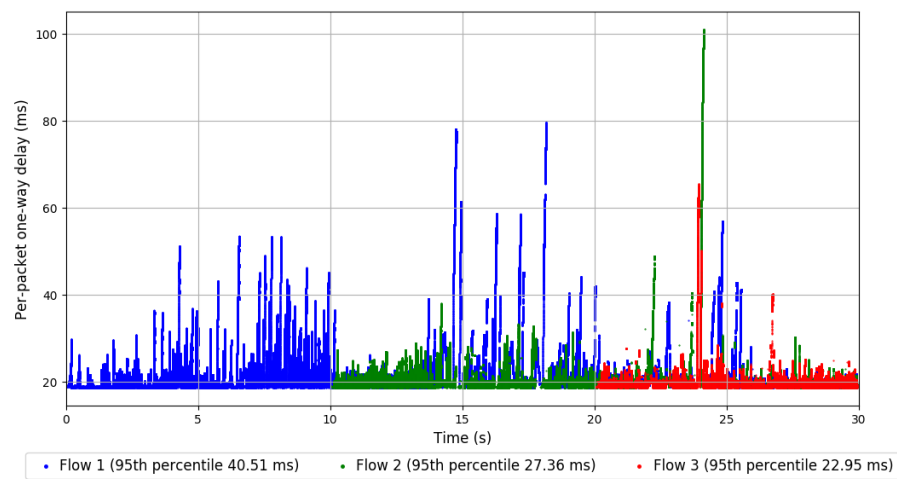
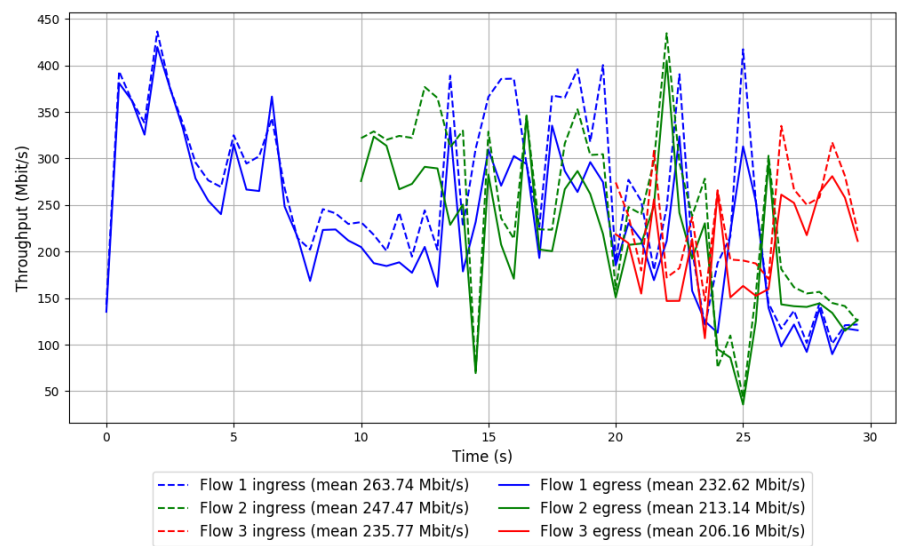
-- Flow 3:

Average throughput: 206.16 Mbit/s

95th percentile per-packet one-way delay: 22.950 ms

Loss rate: 12.56%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-02-28 07:21:30

End at: 2018-02-28 07:22:00

Local clock offset: 1.005 ms

Remote clock offset: 0.465 ms

Below is generated by plot.py at 2018-02-28 13:28:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 473.41 Mbit/s

95th percentile per-packet one-way delay: 35.864 ms

Loss rate: 12.24%

-- Flow 1:

Average throughput: 277.80 Mbit/s

95th percentile per-packet one-way delay: 43.748 ms

Loss rate: 10.01%

-- Flow 2:

Average throughput: 204.94 Mbit/s

95th percentile per-packet one-way delay: 28.545 ms

Loss rate: 15.29%

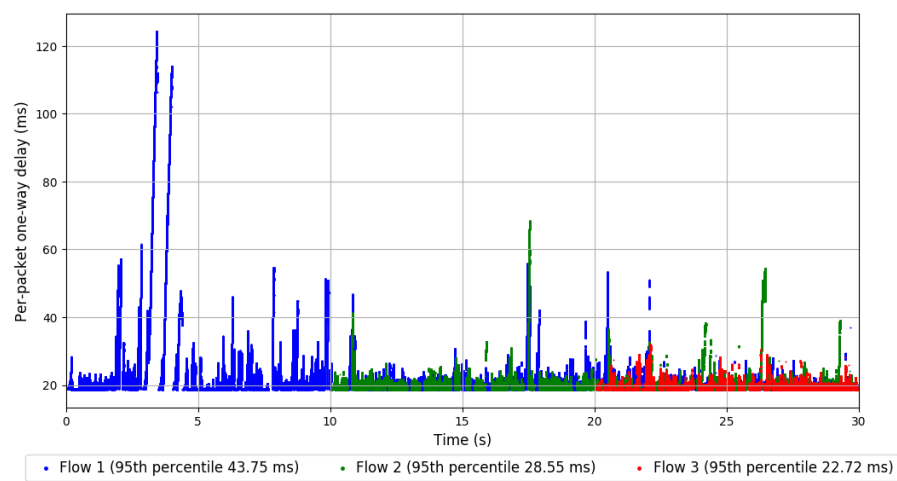
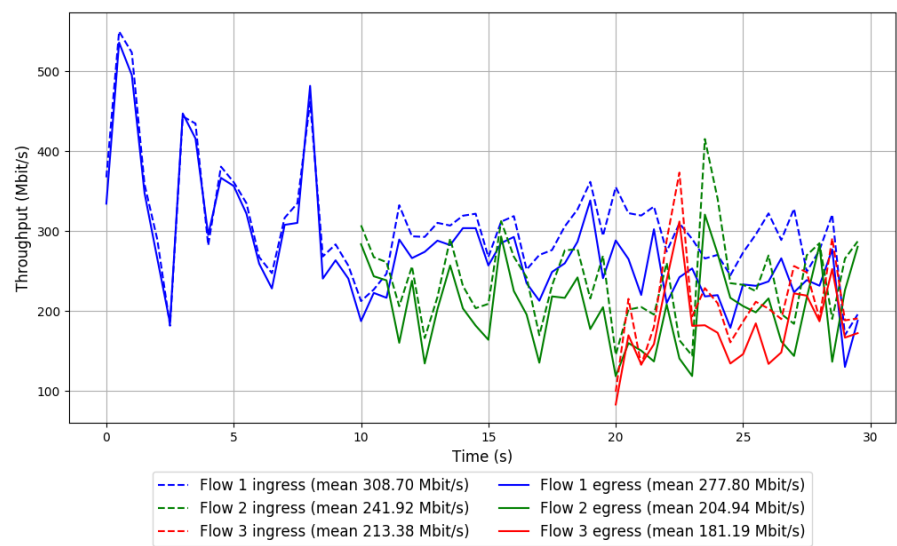
-- Flow 3:

Average throughput: 181.19 Mbit/s

95th percentile per-packet one-way delay: 22.720 ms

Loss rate: 15.10%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-02-28 07:50:46

End at: 2018-02-28 07:51:16

Local clock offset: 0.984 ms

Remote clock offset: 2.515 ms

Below is generated by plot.py at 2018-02-28 13:30:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 434.65 Mbit/s

95th percentile per-packet one-way delay: 27.011 ms

Loss rate: 9.32%

-- Flow 1:

Average throughput: 231.44 Mbit/s

95th percentile per-packet one-way delay: 30.970 ms

Loss rate: 7.98%

-- Flow 2:

Average throughput: 210.66 Mbit/s

95th percentile per-packet one-way delay: 24.817 ms

Loss rate: 9.61%

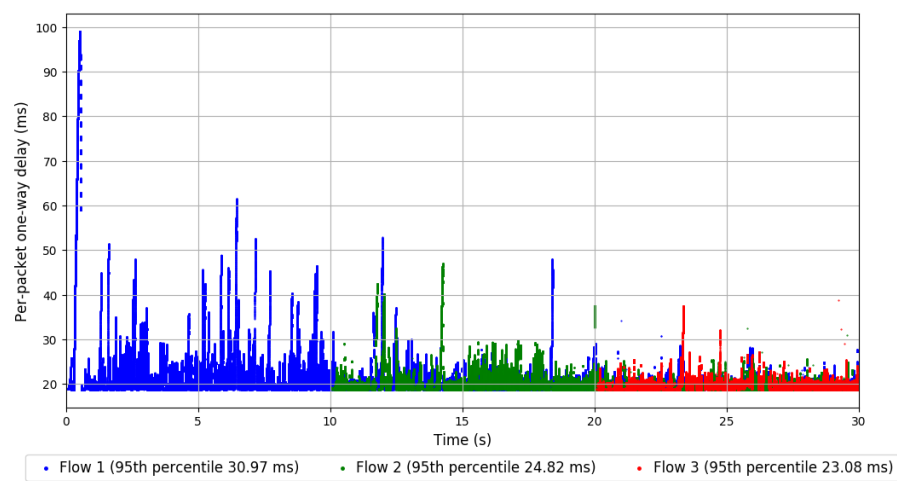
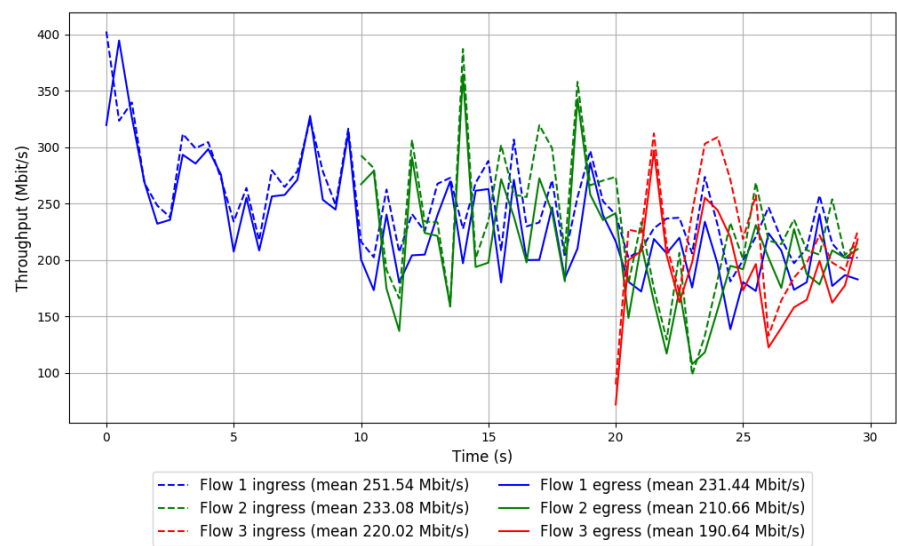
-- Flow 3:

Average throughput: 190.64 Mbit/s

95th percentile per-packet one-way delay: 23.080 ms

Loss rate: 13.35%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-02-28 08:19:36

End at: 2018-02-28 08:20:06

Local clock offset: 0.88 ms

Remote clock offset: 0.586 ms

Below is generated by plot.py at 2018-02-28 13:31:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 442.31 Mbit/s

95th percentile per-packet one-way delay: 46.020 ms

Loss rate: 14.87%

-- Flow 1:

Average throughput: 206.31 Mbit/s

95th percentile per-packet one-way delay: 46.540 ms

Loss rate: 15.66%

-- Flow 2:

Average throughput: 269.80 Mbit/s

95th percentile per-packet one-way delay: 48.181 ms

Loss rate: 13.75%

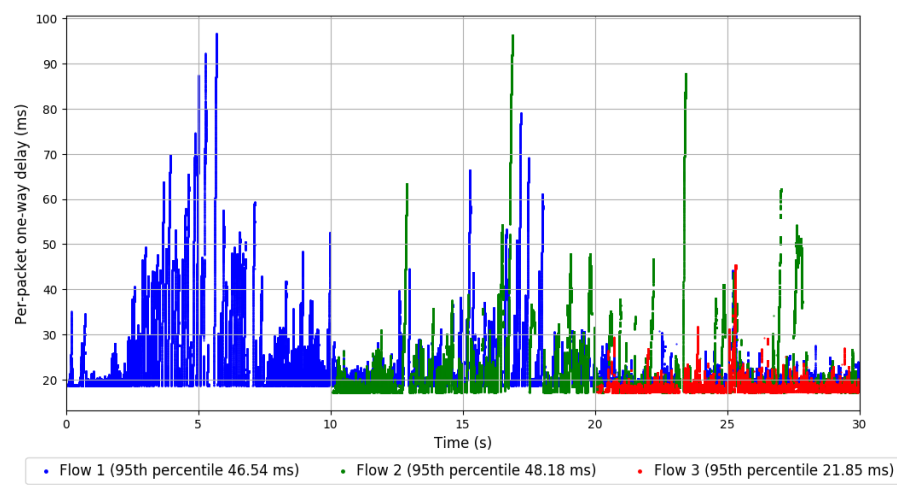
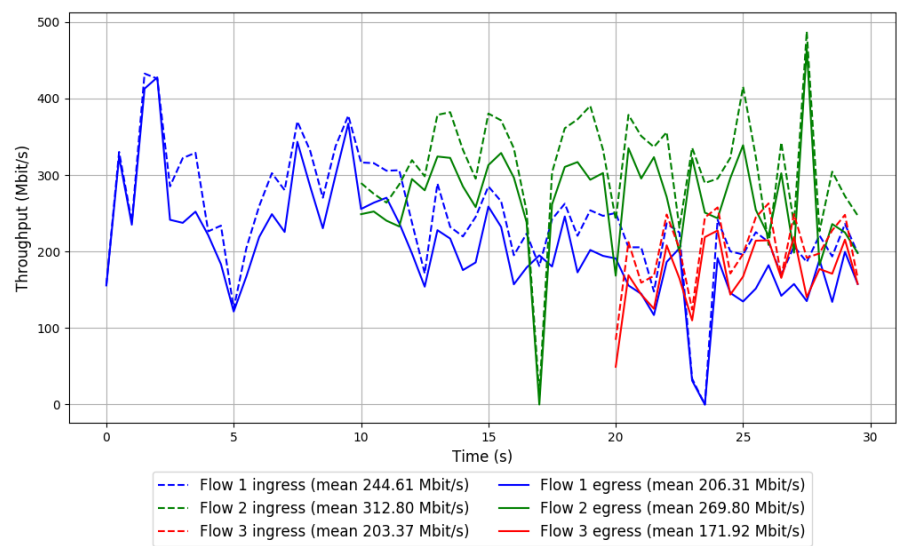
-- Flow 3:

Average throughput: 171.92 Mbit/s

95th percentile per-packet one-way delay: 21.853 ms

Loss rate: 15.46%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-02-28 08:48:27

End at: 2018-02-28 08:48:57

Local clock offset: 0.798 ms

Remote clock offset: 0.266 ms

Below is generated by plot.py at 2018-02-28 13:32:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 452.34 Mbit/s

95th percentile per-packet one-way delay: 25.854 ms

Loss rate: 14.08%

-- Flow 1:

Average throughput: 243.38 Mbit/s

95th percentile per-packet one-way delay: 28.339 ms

Loss rate: 14.47%

-- Flow 2:

Average throughput: 224.63 Mbit/s

95th percentile per-packet one-way delay: 24.294 ms

Loss rate: 13.08%

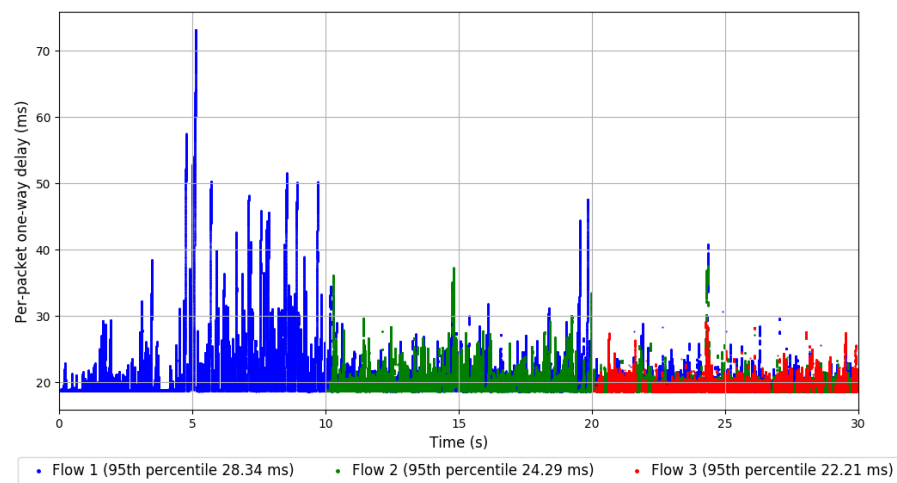
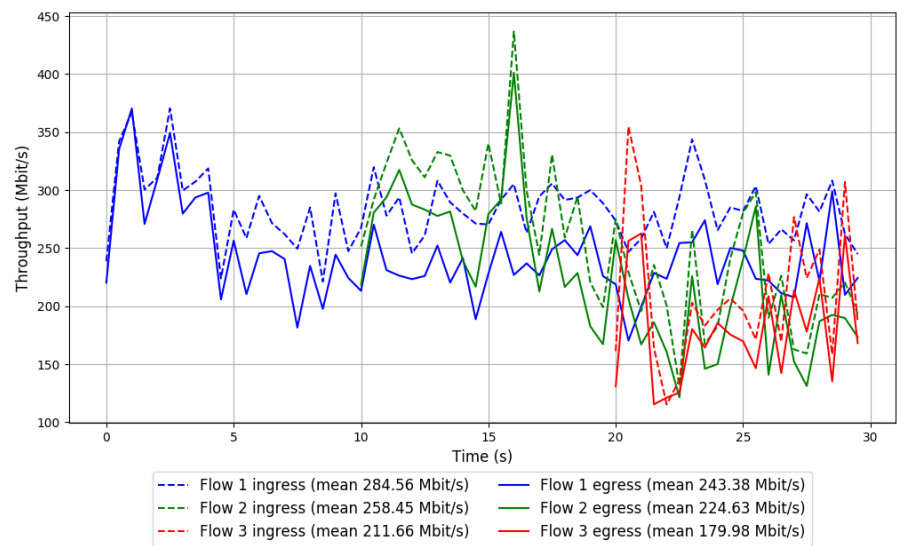
-- Flow 3:

Average throughput: 179.98 Mbit/s

95th percentile per-packet one-way delay: 22.214 ms

Loss rate: 14.95%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-02-28 09:21:14

End at: 2018-02-28 09:21:44

Local clock offset: 6.284 ms

Remote clock offset: 0.617 ms

Below is generated by plot.py at 2018-02-28 13:32:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 437.30 Mbit/s

95th percentile per-packet one-way delay: 27.263 ms

Loss rate: 17.20%

-- Flow 1:

Average throughput: 206.99 Mbit/s

95th percentile per-packet one-way delay: 39.498 ms

Loss rate: 18.87%

-- Flow 2:

Average throughput: 242.44 Mbit/s

95th percentile per-packet one-way delay: 20.731 ms

Loss rate: 15.12%

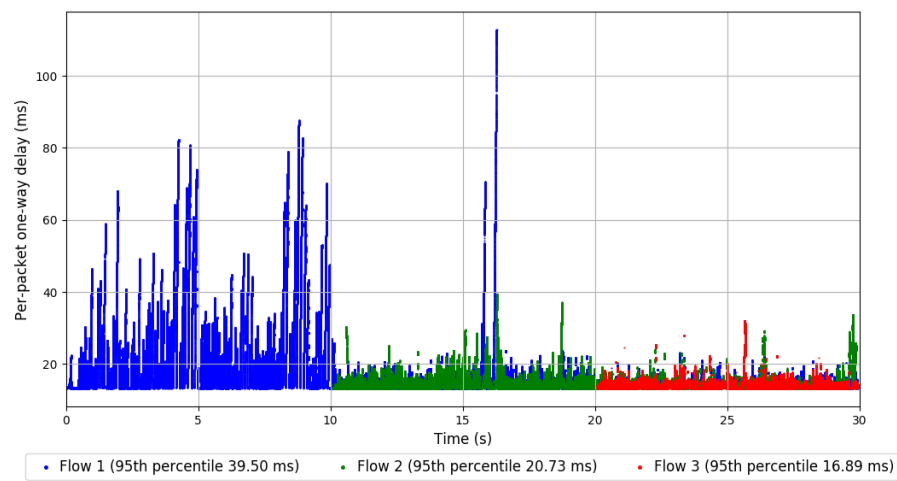
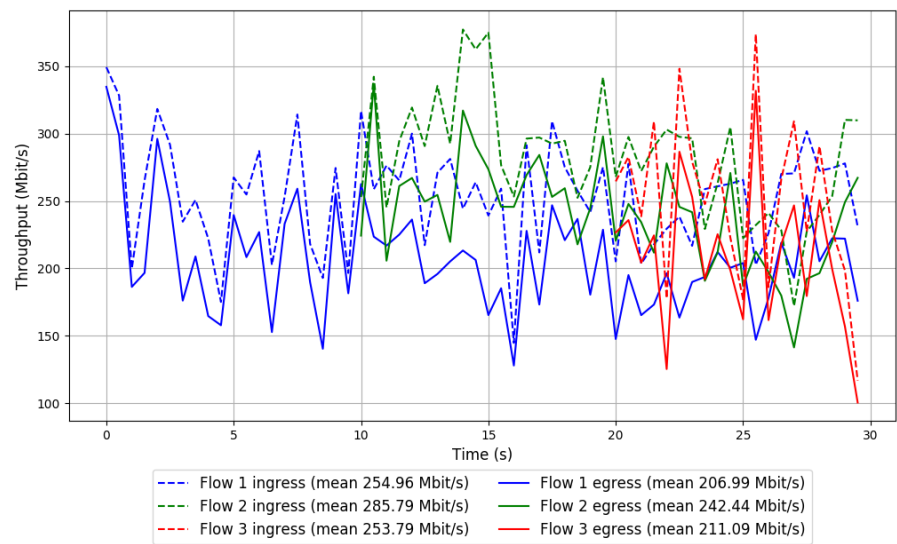
-- Flow 3:

Average throughput: 211.09 Mbit/s

95th percentile per-packet one-way delay: 16.890 ms

Loss rate: 16.83%

Run 10: Report of Verus — Data Link

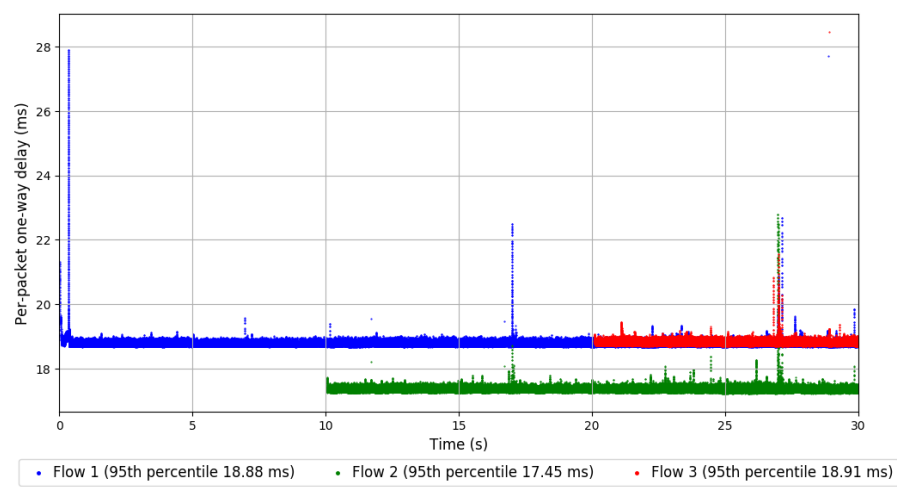
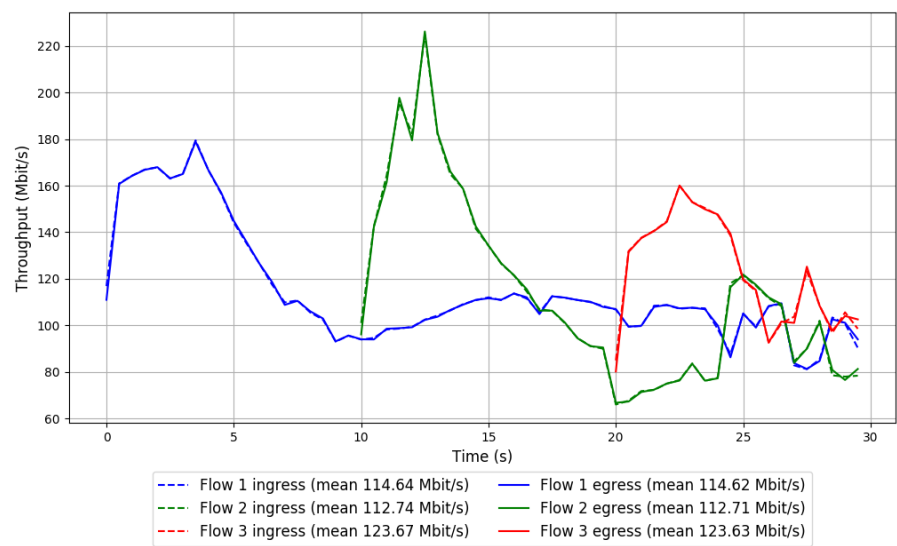


Run 1: Statistics of Copa

Start at: 2018-02-28 05:13:27
End at: 2018-02-28 05:13:57
Local clock offset: 1.449 ms
Remote clock offset: -4.537 ms

Below is generated by plot.py at 2018-02-28 13:33:14
Datalink statistics
-- Total of 3 flows:
Average throughput: 230.59 Mbit/s
95th percentile per-packet one-way delay: 18.868 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 114.62 Mbit/s
95th percentile per-packet one-way delay: 18.877 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 112.71 Mbit/s
95th percentile per-packet one-way delay: 17.451 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 123.63 Mbit/s
95th percentile per-packet one-way delay: 18.910 ms
Loss rate: 0.03%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-02-28 05:42:30

End at: 2018-02-28 05:43:00

Local clock offset: 1.441 ms

Remote clock offset: 1.2 ms

Below is generated by plot.py at 2018-02-28 13:33:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 231.13 Mbit/s

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

Loss rate: 0.02%

-- Flow 1:

Average throughput: 114.18 Mbit/s

95th percentile per-packet one-way delay: 18.784 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 116.95 Mbit/s

95th percentile per-packet one-way delay: 18.801 ms

Loss rate: 0.02%

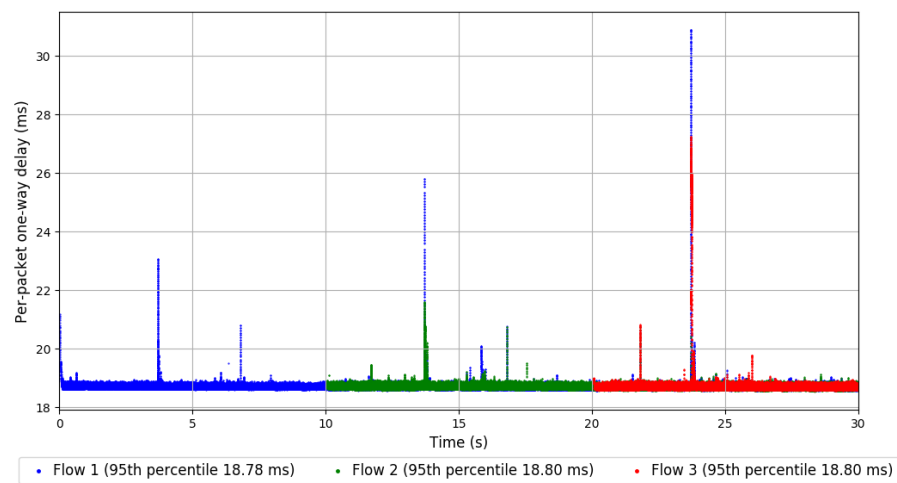
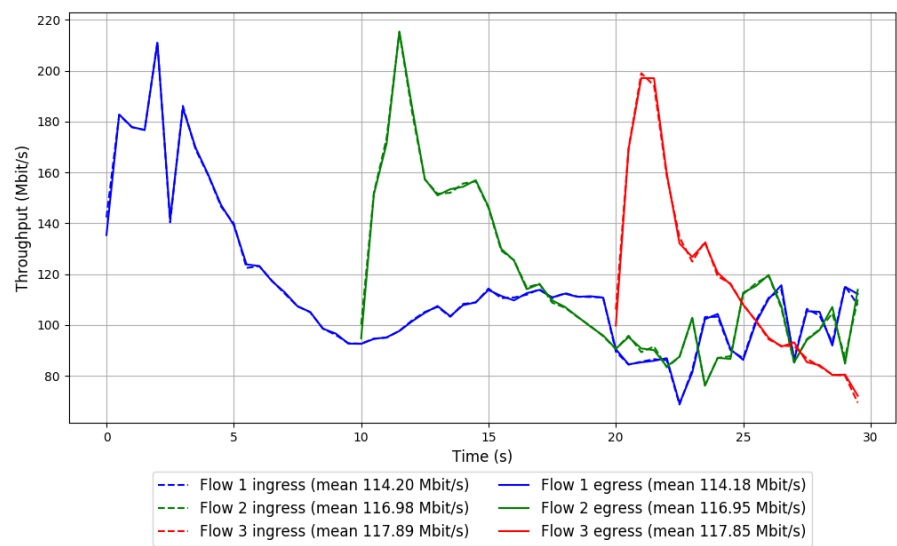
-- Flow 3:

Average throughput: 117.85 Mbit/s

95th percentile per-packet one-way delay: 18.803 ms

Loss rate: 0.03%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-02-28 06:11:44

End at: 2018-02-28 06:12:14

Local clock offset: 1.102 ms

Remote clock offset: 0.368 ms

Below is generated by plot.py at 2018-02-28 13:34:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 239.40 Mbit/s

95th percentile per-packet one-way delay: 18.864 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 115.61 Mbit/s

95th percentile per-packet one-way delay: 18.886 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 119.95 Mbit/s

95th percentile per-packet one-way delay: 17.464 ms

Loss rate: 0.01%

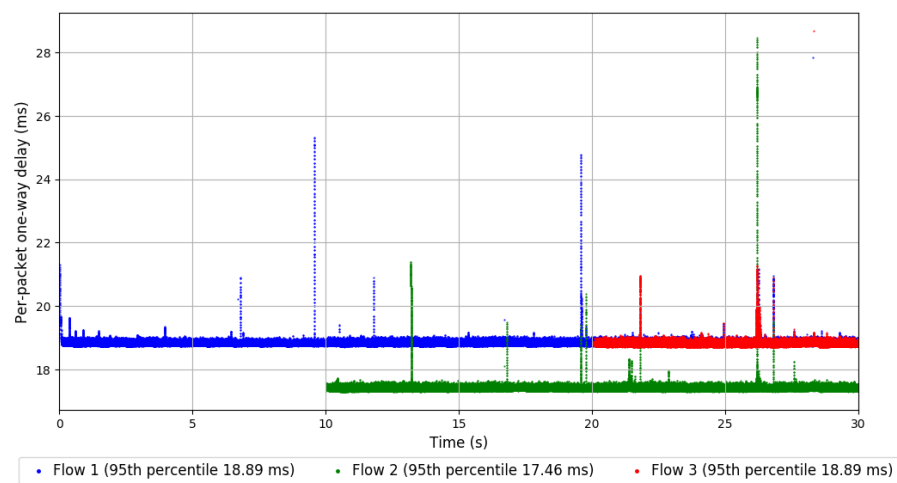
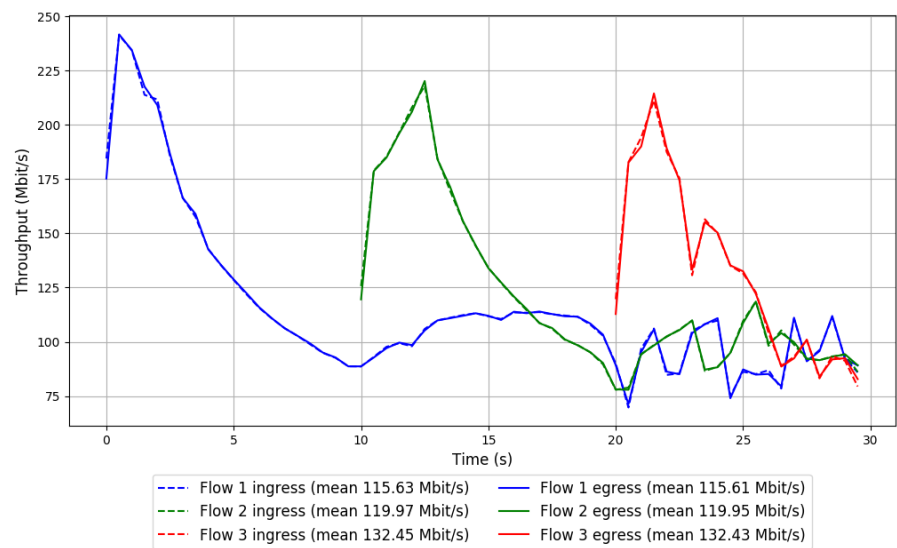
-- Flow 3:

Average throughput: 132.43 Mbit/s

95th percentile per-packet one-way delay: 18.886 ms

Loss rate: 0.02%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-02-28 06:40:52

End at: 2018-02-28 06:41:22

Local clock offset: -0.412 ms

Remote clock offset: 0.218 ms

Below is generated by plot.py at 2018-02-28 13:34:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 233.56 Mbit/s

95th percentile per-packet one-way delay: 18.819 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 114.90 Mbit/s

95th percentile per-packet one-way delay: 18.817 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 115.64 Mbit/s

95th percentile per-packet one-way delay: 18.810 ms

Loss rate: 0.00%

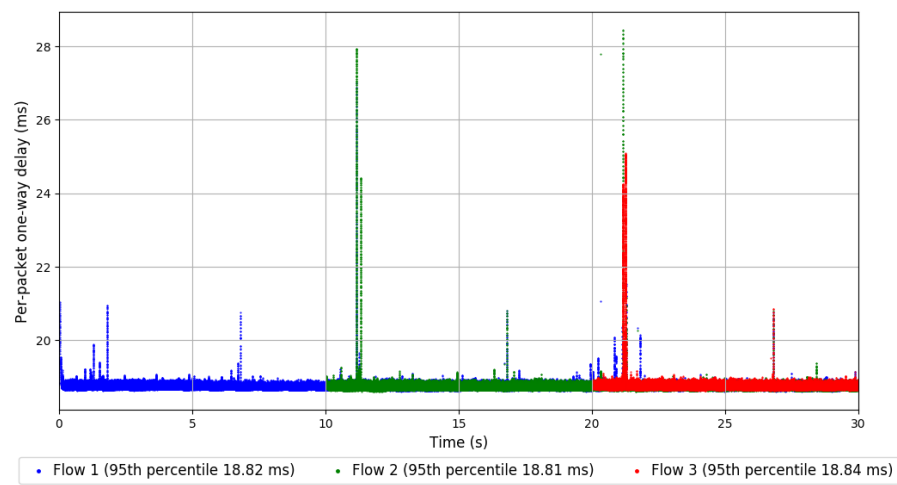
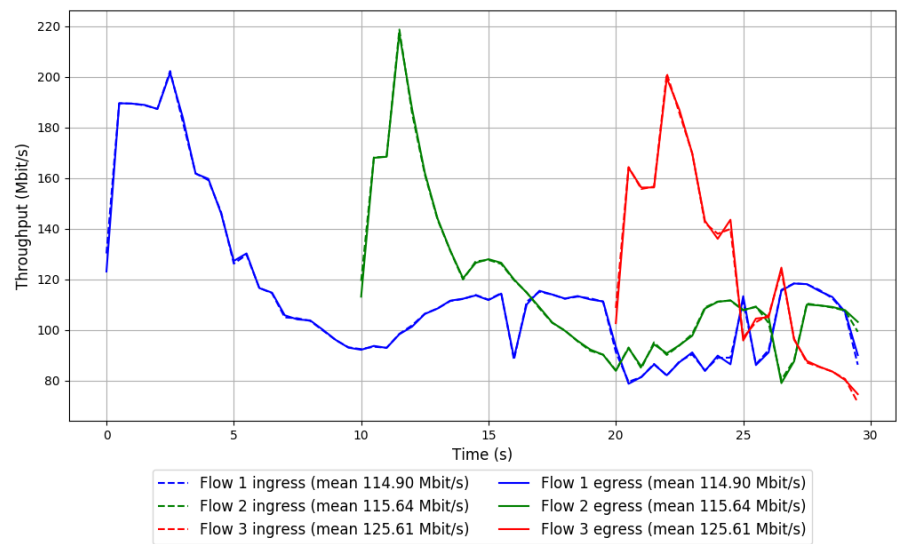
-- Flow 3:

Average throughput: 125.61 Mbit/s

95th percentile per-packet one-way delay: 18.839 ms

Loss rate: 0.00%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-02-28 07:09:49

End at: 2018-02-28 07:10:19

Local clock offset: 0.725 ms

Remote clock offset: 0.342 ms

Below is generated by plot.py at 2018-02-28 13:37:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 235.92 Mbit/s

95th percentile per-packet one-way delay: 18.777 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 115.58 Mbit/s

95th percentile per-packet one-way delay: 18.765 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 119.83 Mbit/s

95th percentile per-packet one-way delay: 18.776 ms

Loss rate: 0.01%

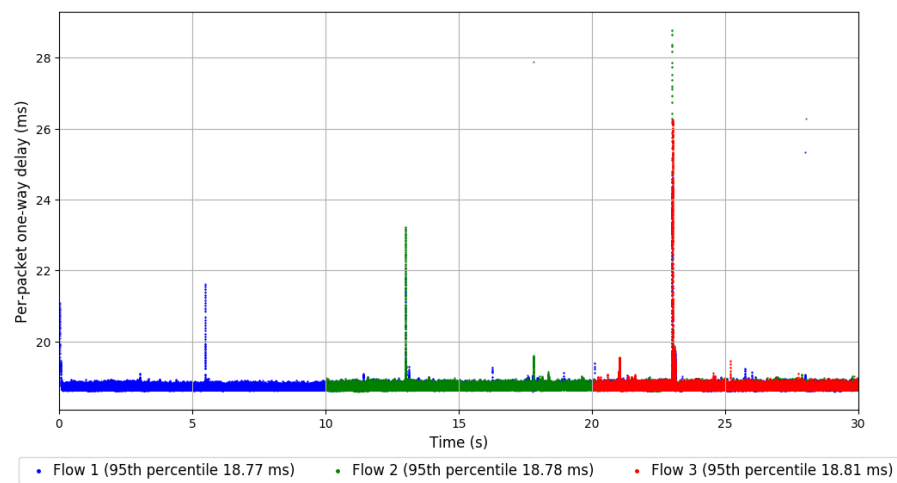
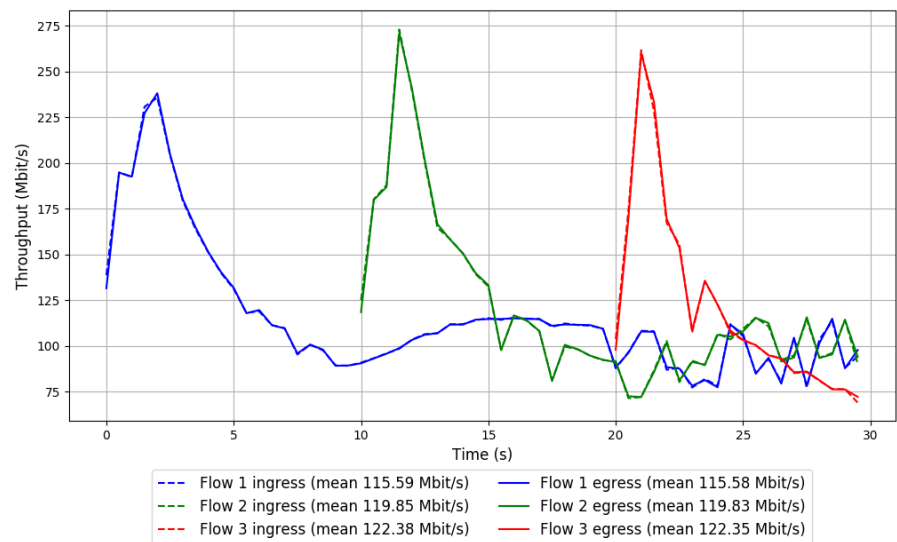
-- Flow 3:

Average throughput: 122.35 Mbit/s

95th percentile per-packet one-way delay: 18.807 ms

Loss rate: 0.02%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-02-28 07:39:13

End at: 2018-02-28 07:39:43

Local clock offset: 1.052 ms

Remote clock offset: 1.592 ms

Below is generated by plot.py at 2018-02-28 13:37:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 233.42 Mbit/s

95th percentile per-packet one-way delay: 18.813 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 115.96 Mbit/s

95th percentile per-packet one-way delay: 18.819 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 116.91 Mbit/s

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

Loss rate: 0.03%

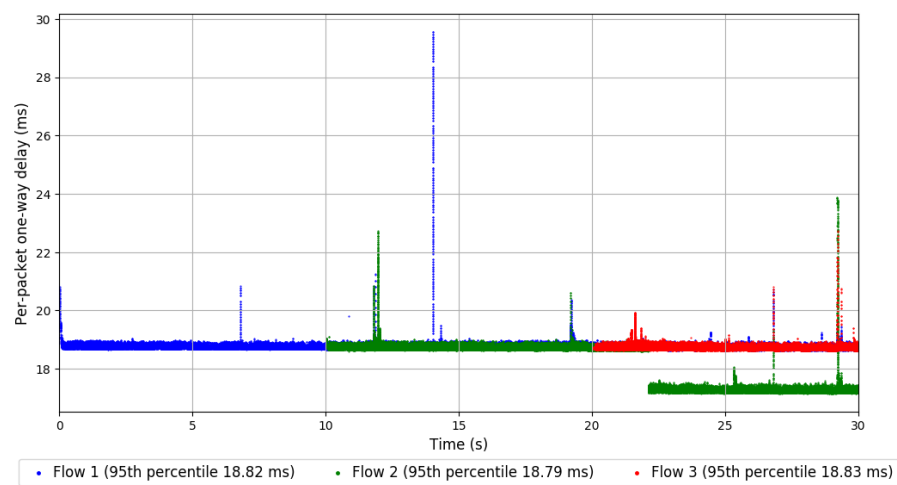
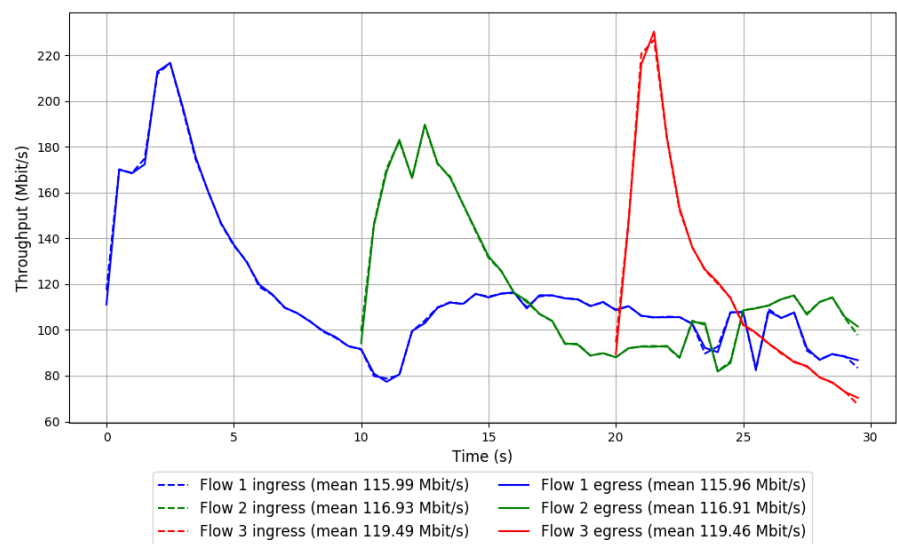
-- Flow 3:

Average throughput: 119.46 Mbit/s

95th percentile per-packet one-way delay: 18.826 ms

Loss rate: 0.03%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-02-28 08:08:01

End at: 2018-02-28 08:08:31

Local clock offset: 1.034 ms

Remote clock offset: 3.311 ms

Below is generated by plot.py at 2018-02-28 13:38:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 230.97 Mbit/s

95th percentile per-packet one-way delay: 18.994 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 113.13 Mbit/s

95th percentile per-packet one-way delay: 17.537 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 112.21 Mbit/s

95th percentile per-packet one-way delay: 18.992 ms

Loss rate: 0.05%

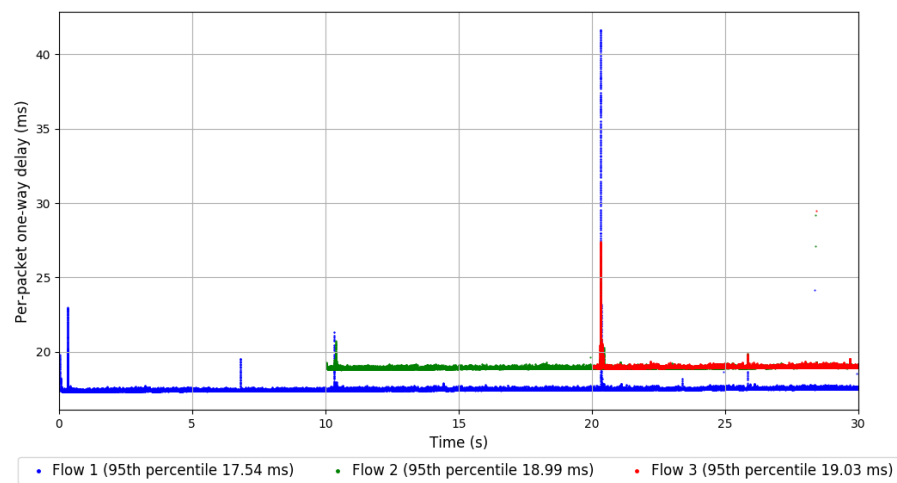
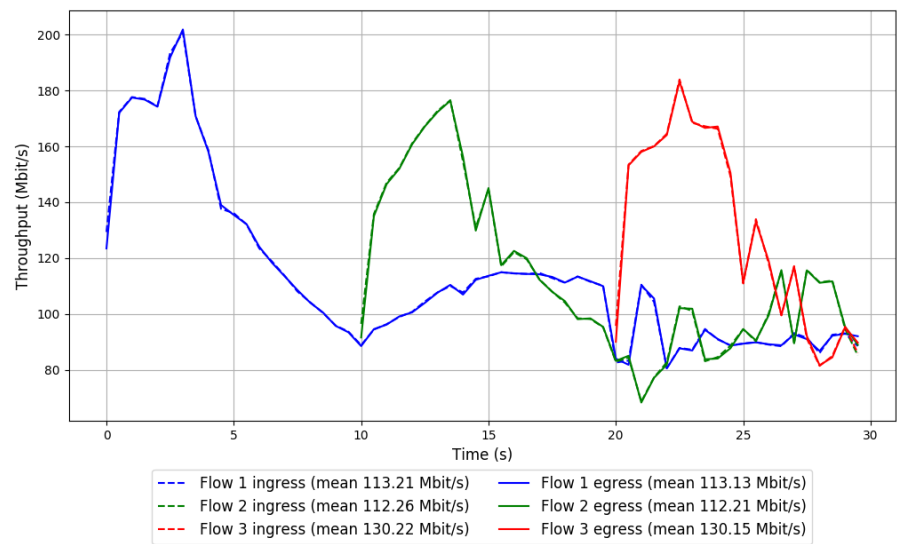
-- Flow 3:

Average throughput: 130.15 Mbit/s

95th percentile per-packet one-way delay: 19.029 ms

Loss rate: 0.05%

Run 7: Report of Copa — Data Link

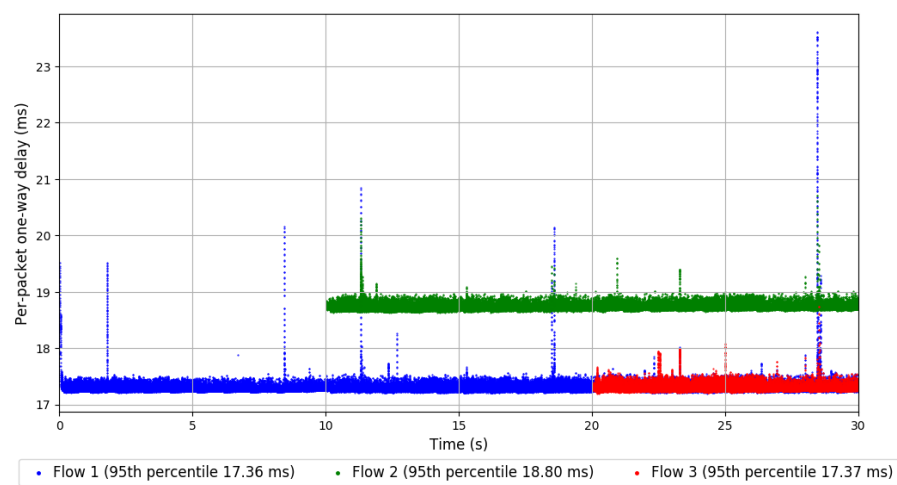
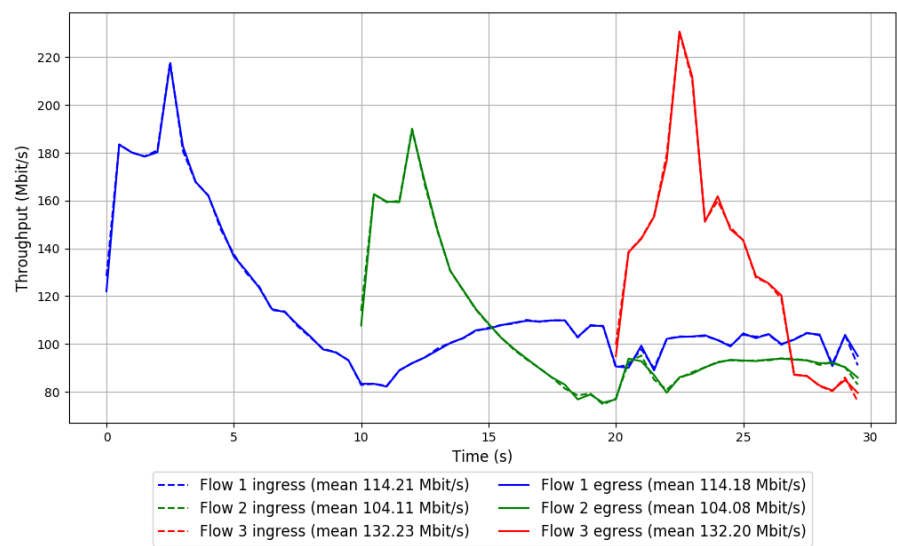


Run 8: Statistics of Copa

Start at: 2018-02-28 08:36:53
End at: 2018-02-28 08:37:23
Local clock offset: 0.858 ms
Remote clock offset: -0.585 ms

```
# Below is generated by plot.py at 2018-02-28 13:38:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 227.38 Mbit/s
95th percentile per-packet one-way delay: 18.748 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 114.18 Mbit/s
95th percentile per-packet one-way delay: 17.357 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 104.08 Mbit/s
95th percentile per-packet one-way delay: 18.798 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 132.20 Mbit/s
95th percentile per-packet one-way delay: 17.374 ms
Loss rate: 0.02%
```

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-02-28 09:05:49

End at: 2018-02-28 09:06:19

Local clock offset: 0.772 ms

Remote clock offset: 1.005 ms

Below is generated by plot.py at 2018-02-28 13:39:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 234.17 Mbit/s

95th percentile per-packet one-way delay: 18.663 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 116.38 Mbit/s

95th percentile per-packet one-way delay: 18.676 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 116.73 Mbit/s

95th percentile per-packet one-way delay: 17.262 ms

Loss rate: 0.01%

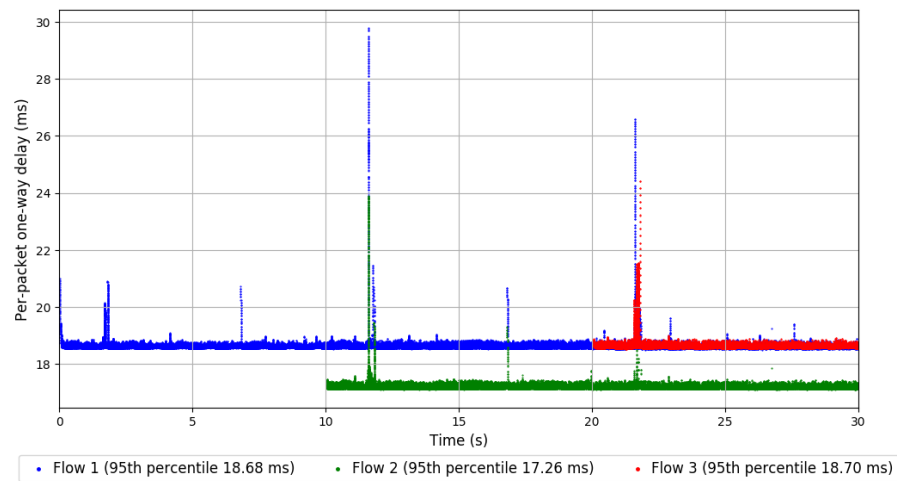
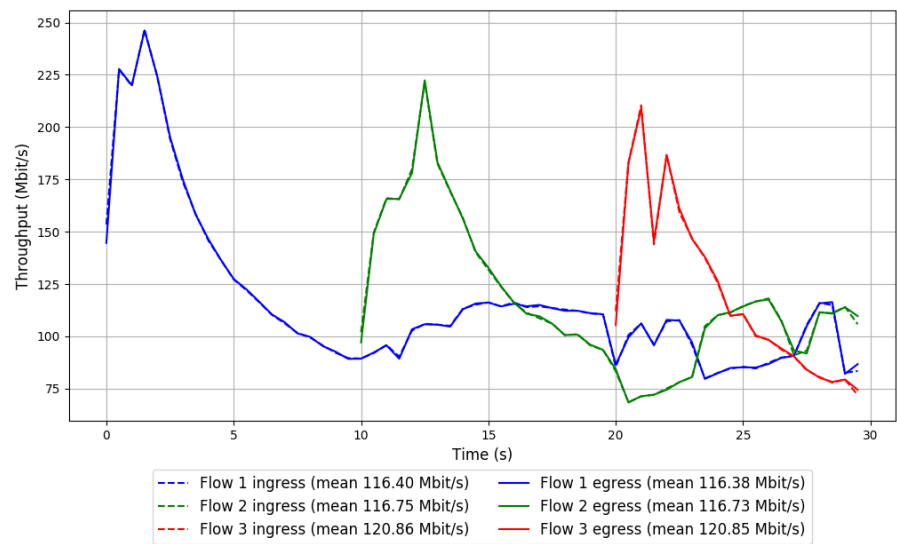
-- Flow 3:

Average throughput: 120.85 Mbit/s

95th percentile per-packet one-way delay: 18.701 ms

Loss rate: 0.02%

Run 9: Report of Copa — Data Link

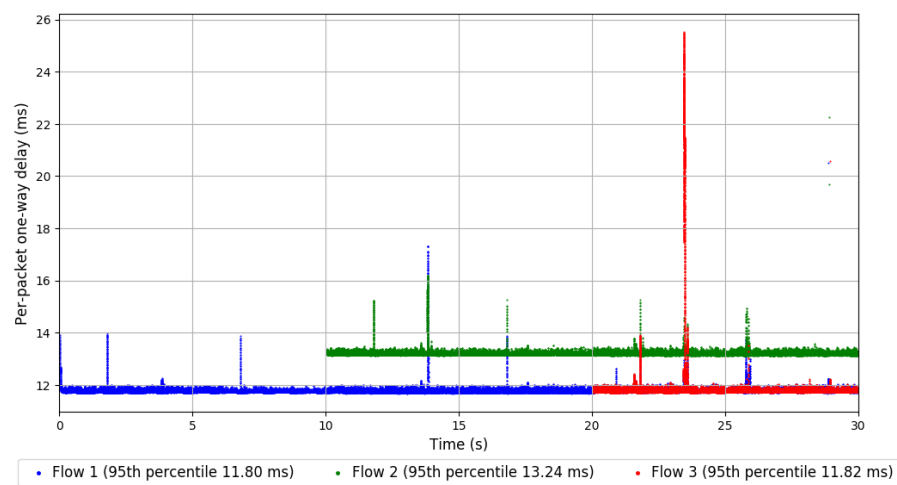
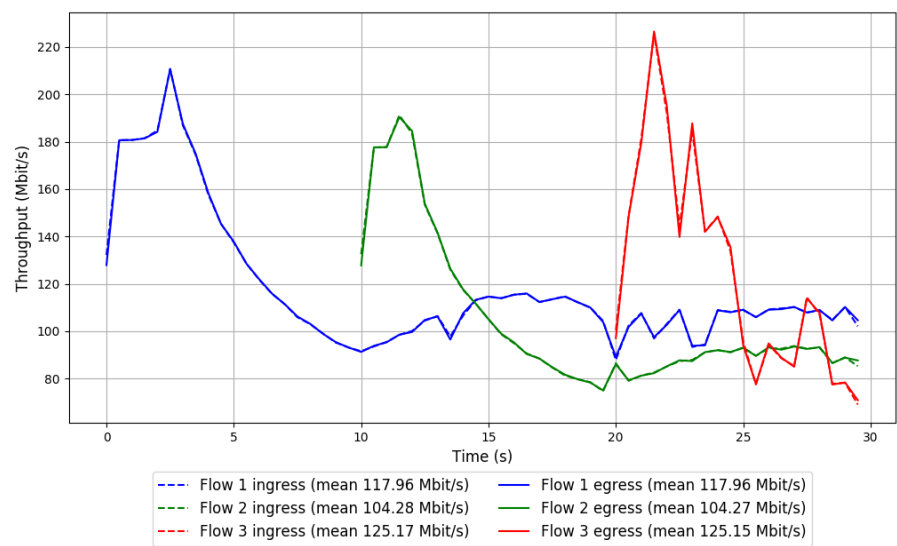


Run 10: Statistics of Copa

Start at: 2018-02-28 09:38:36
End at: 2018-02-28 09:39:06
Local clock offset: 6.325 ms
Remote clock offset: -0.145 ms

Below is generated by plot.py at 2018-02-28 13:39:08
Datalink statistics
-- Total of 3 flows:
Average throughput: 228.90 Mbit/s
95th percentile per-packet one-way delay: 13.213 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 117.96 Mbit/s
95th percentile per-packet one-way delay: 11.798 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 104.27 Mbit/s
95th percentile per-packet one-way delay: 13.237 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 125.15 Mbit/s
95th percentile per-packet one-way delay: 11.818 ms
Loss rate: 0.02%

Run 10: Report of Copa — Data Link

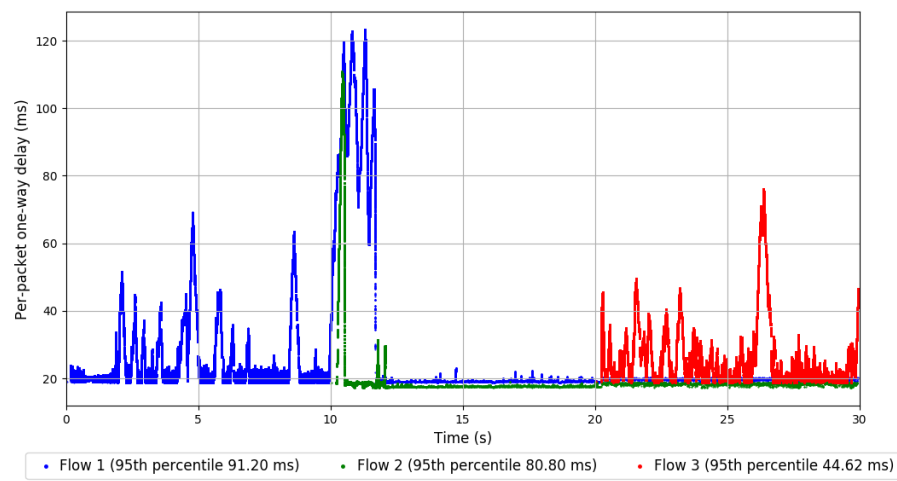
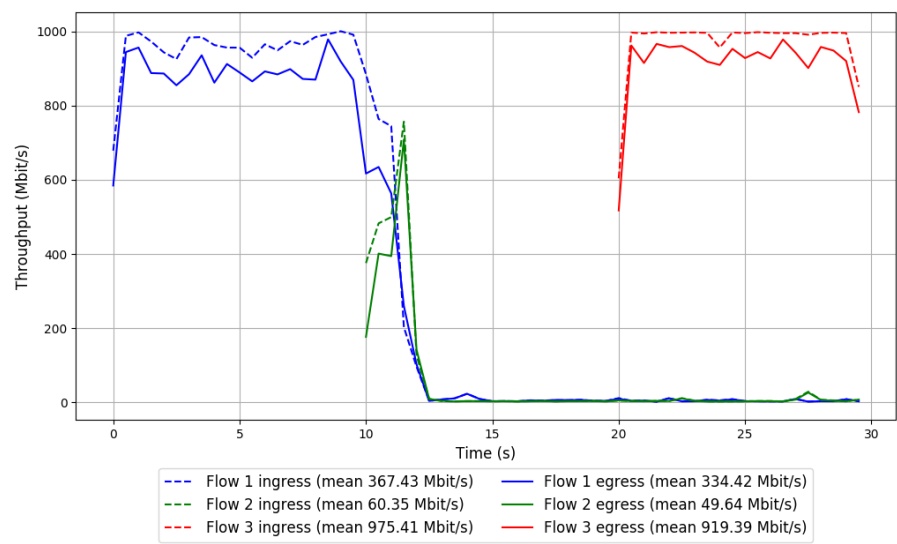


Run 1: Statistics of FillP

Start at: 2018-02-28 04:59:38
End at: 2018-02-28 05:00:08
Local clock offset: 1.477 ms
Remote clock offset: -4.622 ms

Below is generated by plot.py at 2018-02-28 13:43:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 671.96 Mbit/s
95th percentile per-packet one-way delay: 68.940 ms
Loss rate: 8.03%
-- Flow 1:
Average throughput: 334.42 Mbit/s
95th percentile per-packet one-way delay: 91.203 ms
Loss rate: 8.98%
-- Flow 2:
Average throughput: 49.64 Mbit/s
95th percentile per-packet one-way delay: 80.799 ms
Loss rate: 17.74%
-- Flow 3:
Average throughput: 919.39 Mbit/s
95th percentile per-packet one-way delay: 44.615 ms
Loss rate: 5.74%

Run 1: Report of FillP — Data Link

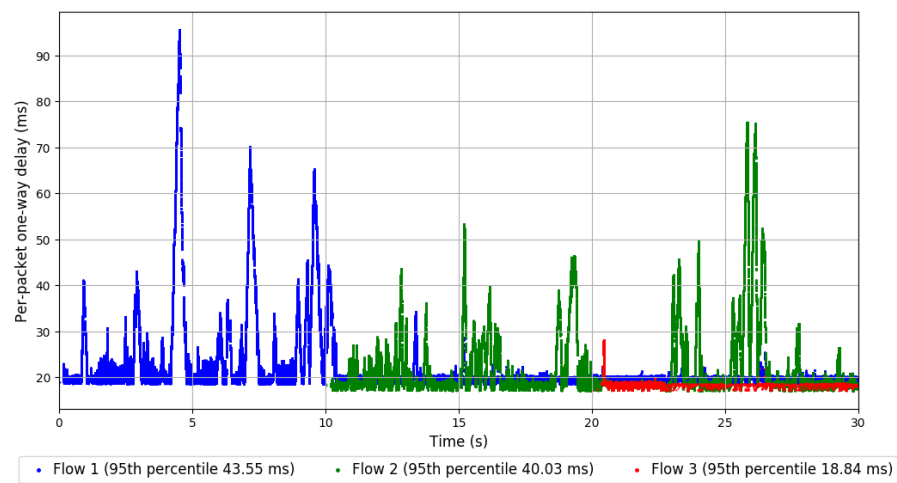
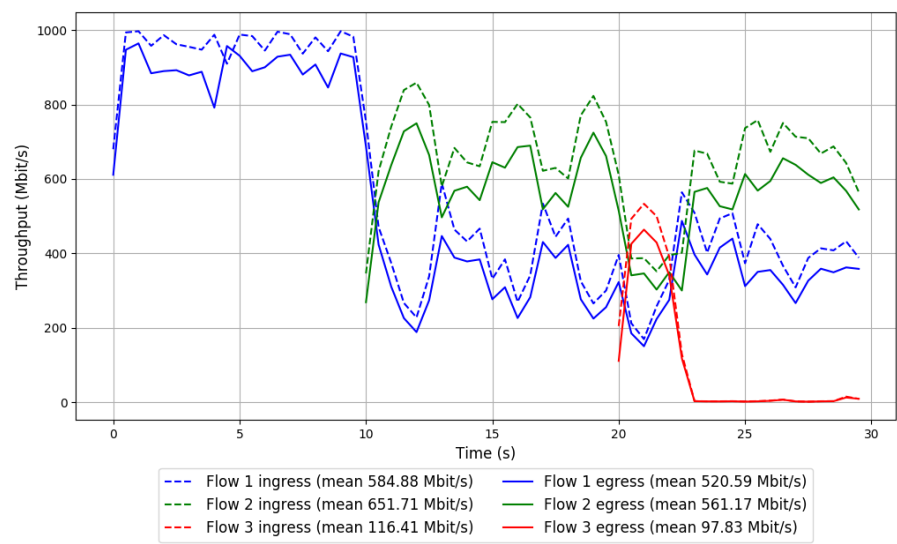


Run 2: Statistics of FillP

Start at: 2018-02-28 05:28:18
End at: 2018-02-28 05:28:48
Local clock offset: 1.322 ms
Remote clock offset: -0.863 ms

Below is generated by plot.py at 2018-02-28 13:48:15
Datalink statistics
-- Total of 3 flows:
Average throughput: 926.55 Mbit/s
95th percentile per-packet one-way delay: 41.775 ms
Loss rate: 12.36%
-- Flow 1:
Average throughput: 520.59 Mbit/s
95th percentile per-packet one-way delay: 43.545 ms
Loss rate: 10.99%
-- Flow 2:
Average throughput: 561.17 Mbit/s
95th percentile per-packet one-way delay: 40.029 ms
Loss rate: 13.89%
-- Flow 3:
Average throughput: 97.83 Mbit/s
95th percentile per-packet one-way delay: 18.837 ms
Loss rate: 15.95%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-02-28 05:57:16

End at: 2018-02-28 05:57:46

Local clock offset: 1.26 ms

Remote clock offset: 1.012 ms

Below is generated by plot.py at 2018-02-28 13:51:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 888.06 Mbit/s

95th percentile per-packet one-way delay: 53.187 ms

Loss rate: 10.79%

-- Flow 1:

Average throughput: 476.23 Mbit/s

95th percentile per-packet one-way delay: 34.731 ms

Loss rate: 9.19%

-- Flow 2:

Average throughput: 504.95 Mbit/s

95th percentile per-packet one-way delay: 65.819 ms

Loss rate: 12.00%

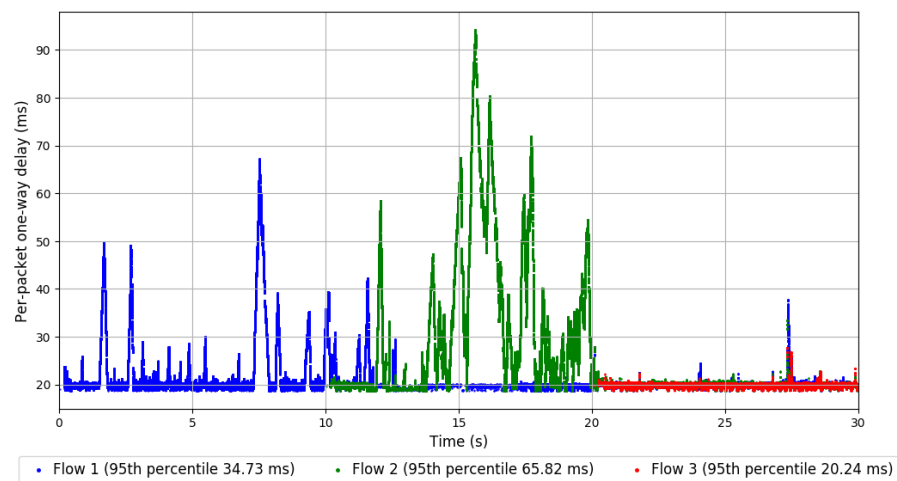
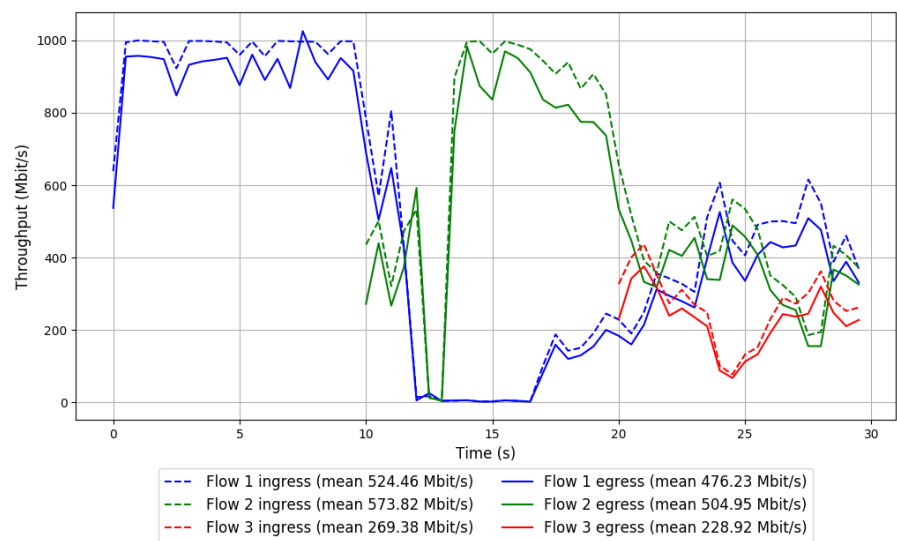
-- Flow 3:

Average throughput: 228.92 Mbit/s

95th percentile per-packet one-way delay: 20.238 ms

Loss rate: 15.02%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-02-28 06:26:38

End at: 2018-02-28 06:27:08

Local clock offset: 0.598 ms

Remote clock offset: 0.425 ms

Below is generated by plot.py at 2018-02-28 13:51:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 858.17 Mbit/s

95th percentile per-packet one-way delay: 66.316 ms

Loss rate: 7.76%

-- Flow 1:

Average throughput: 578.81 Mbit/s

95th percentile per-packet one-way delay: 68.393 ms

Loss rate: 6.57%

-- Flow 2:

Average throughput: 371.22 Mbit/s

95th percentile per-packet one-way delay: 60.777 ms

Loss rate: 8.84%

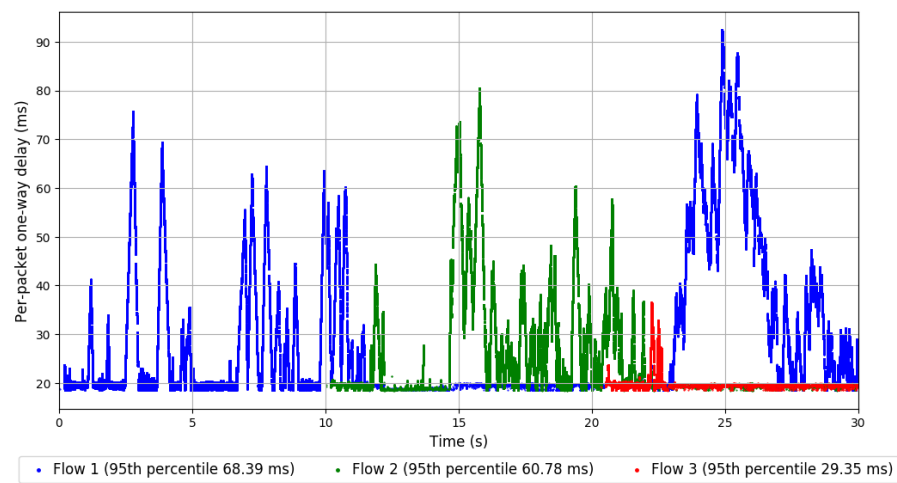
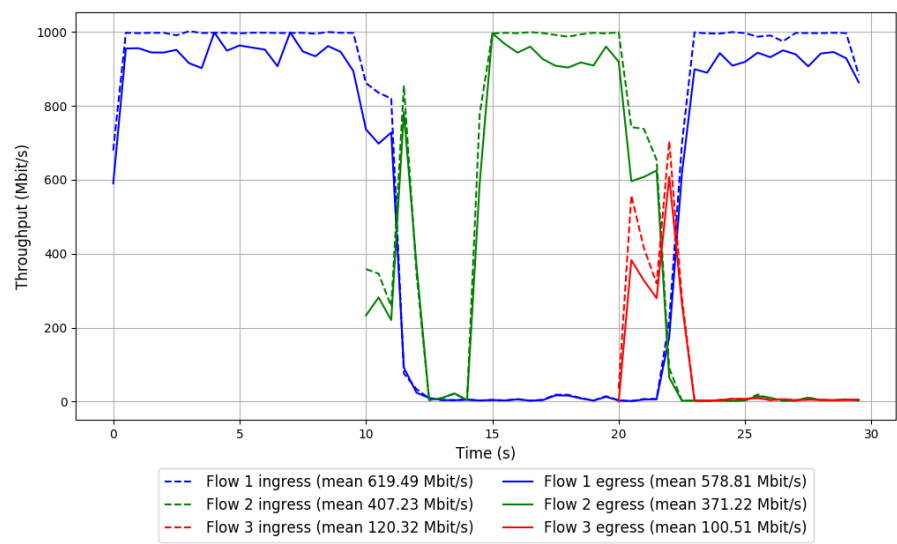
-- Flow 3:

Average throughput: 100.51 Mbit/s

95th percentile per-packet one-way delay: 29.353 ms

Loss rate: 19.02%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-02-28 06:55:44

End at: 2018-02-28 06:56:14

Local clock offset: -0.817 ms

Remote clock offset: 0.272 ms

Below is generated by plot.py at 2018-02-28 13:51:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 679.40 Mbit/s

95th percentile per-packet one-way delay: 82.713 ms

Loss rate: 10.40%

-- Flow 1:

Average throughput: 363.53 Mbit/s

95th percentile per-packet one-way delay: 88.691 ms

Loss rate: 7.79%

-- Flow 2:

Average throughput: 141.24 Mbit/s

95th percentile per-packet one-way delay: 77.776 ms

Loss rate: 18.43%

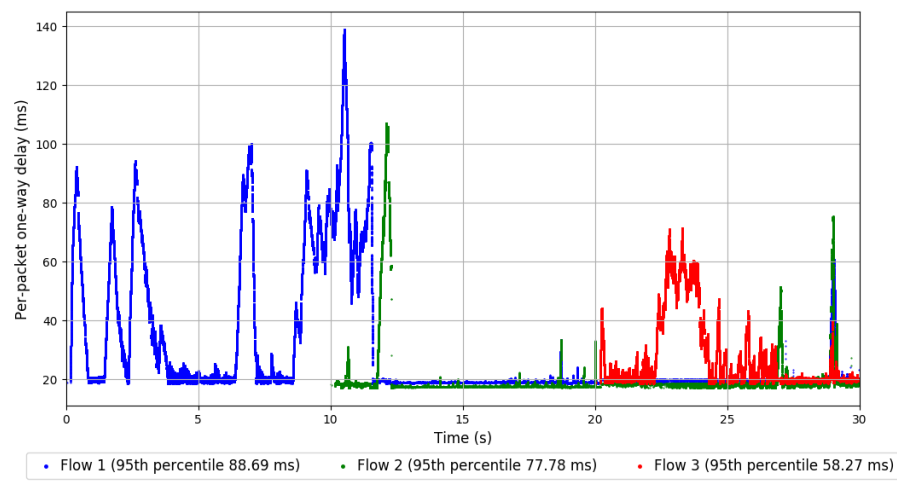
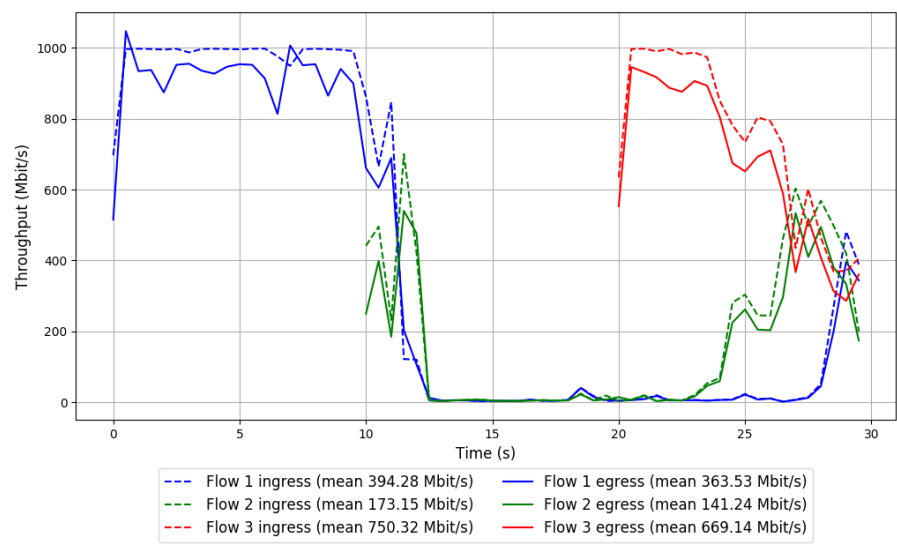
-- Flow 3:

Average throughput: 669.14 Mbit/s

95th percentile per-packet one-way delay: 58.265 ms

Loss rate: 10.82%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-02-28 07:24:50

End at: 2018-02-28 07:25:20

Local clock offset: 1.115 ms

Remote clock offset: 0.492 ms

Below is generated by plot.py at 2018-02-28 13:52:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 917.27 Mbit/s

95th percentile per-packet one-way delay: 33.173 ms

Loss rate: 11.94%

-- Flow 1:

Average throughput: 580.83 Mbit/s

95th percentile per-packet one-way delay: 37.284 ms

Loss rate: 10.28%

-- Flow 2:

Average throughput: 318.72 Mbit/s

95th percentile per-packet one-way delay: 21.629 ms

Loss rate: 14.95%

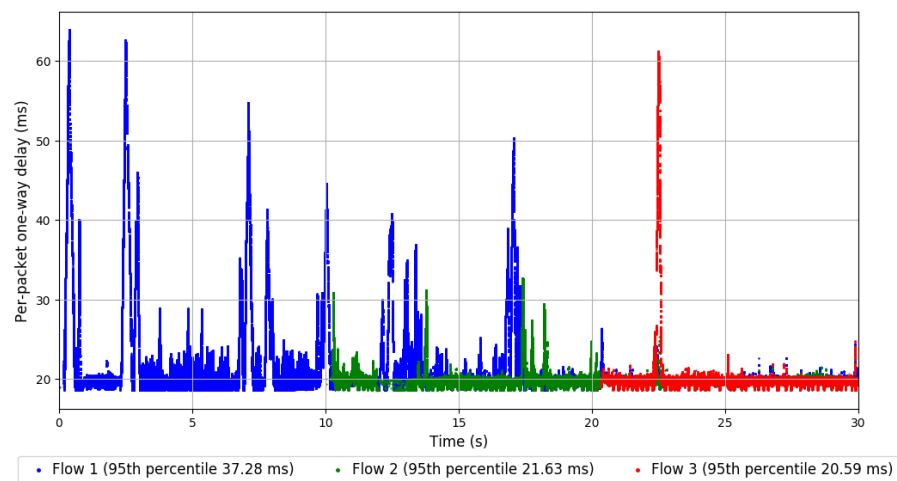
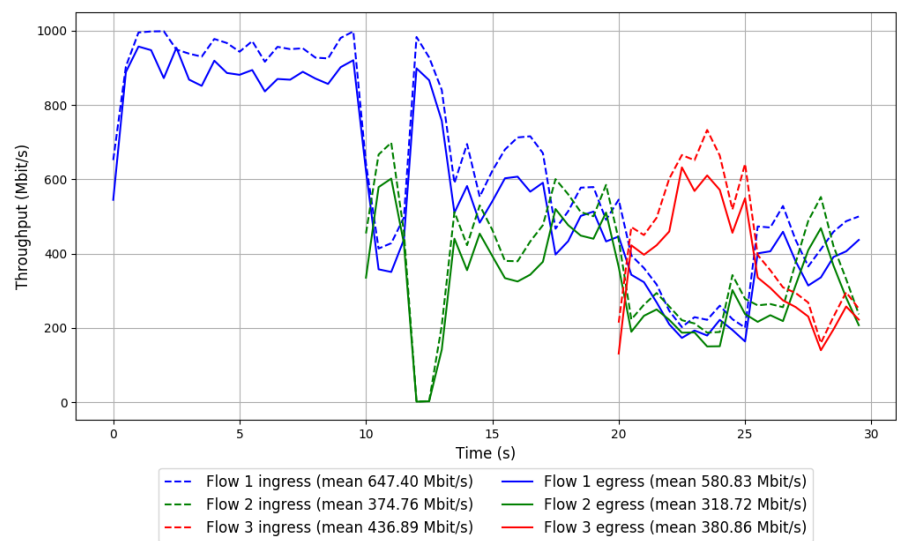
-- Flow 3:

Average throughput: 380.86 Mbit/s

95th percentile per-packet one-way delay: 20.587 ms

Loss rate: 14.15%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-02-28 07:54:03

End at: 2018-02-28 07:54:33

Local clock offset: 0.991 ms

Remote clock offset: 2.587 ms

Below is generated by plot.py at 2018-02-28 13:52:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 848.87 Mbit/s

95th percentile per-packet one-way delay: 50.490 ms

Loss rate: 10.66%

-- Flow 1:

Average throughput: 567.80 Mbit/s

95th percentile per-packet one-way delay: 55.207 ms

Loss rate: 8.32%

-- Flow 2:

Average throughput: 277.06 Mbit/s

95th percentile per-packet one-way delay: 22.127 ms

Loss rate: 14.81%

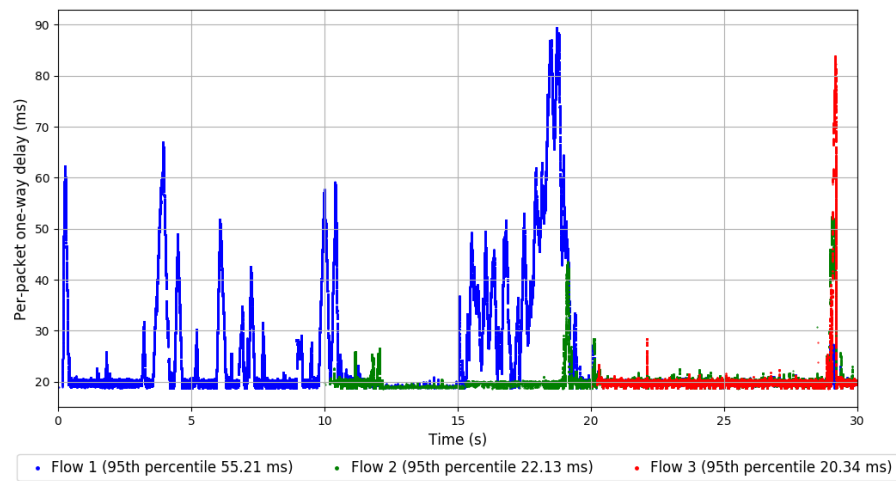
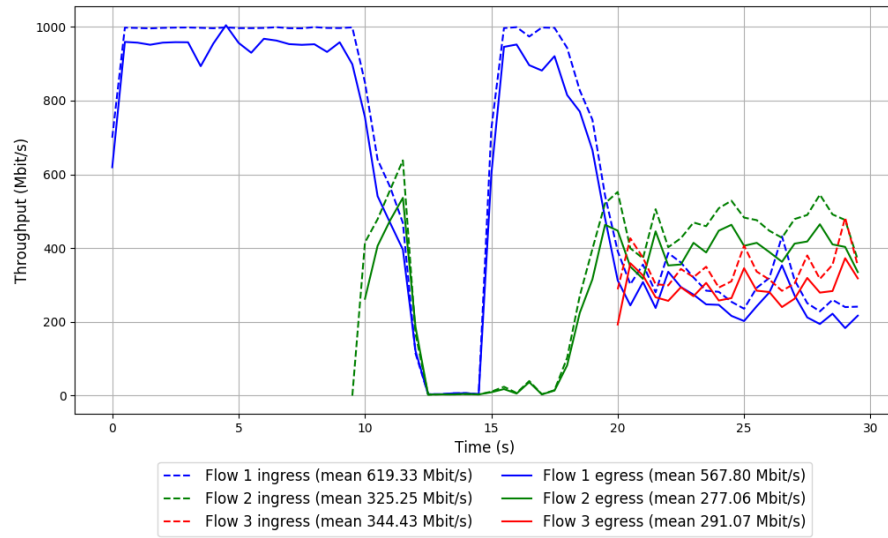
-- Flow 3:

Average throughput: 291.07 Mbit/s

95th percentile per-packet one-way delay: 20.340 ms

Loss rate: 15.49%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-02-28 08:22:54

End at: 2018-02-28 08:23:24

Local clock offset: 0.873 ms

Remote clock offset: 0.267 ms

Below is generated by plot.py at 2018-02-28 13:52:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 866.60 Mbit/s

95th percentile per-packet one-way delay: 47.299 ms

Loss rate: 9.93%

-- Flow 1:

Average throughput: 431.69 Mbit/s

95th percentile per-packet one-way delay: 48.170 ms

Loss rate: 8.06%

-- Flow 2:

Average throughput: 497.42 Mbit/s

95th percentile per-packet one-way delay: 48.098 ms

Loss rate: 10.73%

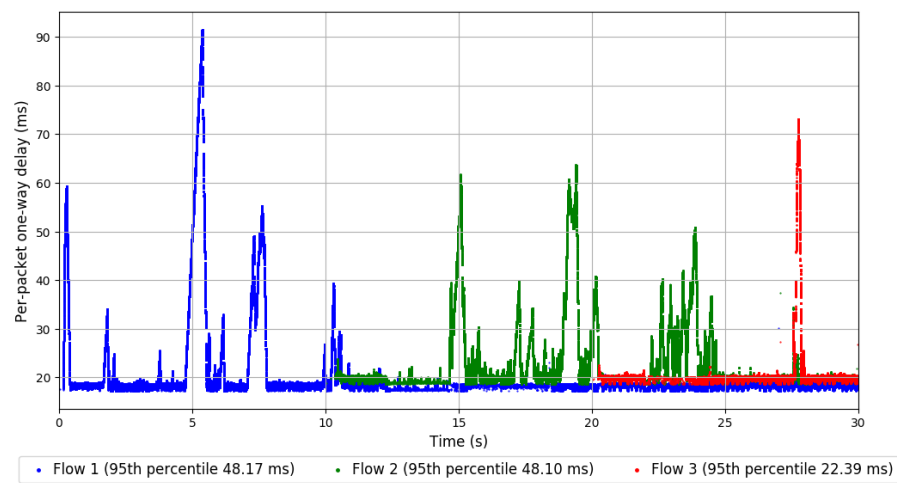
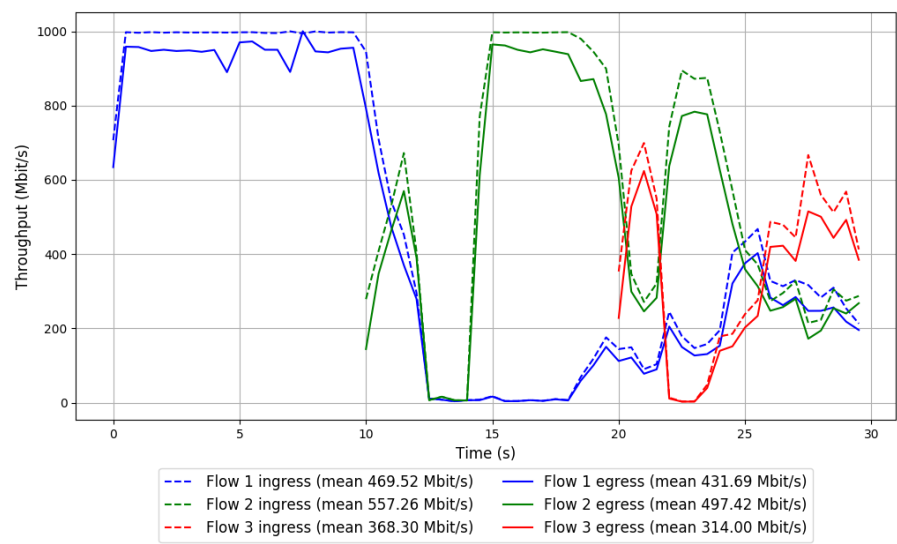
-- Flow 3:

Average throughput: 314.00 Mbit/s

95th percentile per-packet one-way delay: 22.391 ms

Loss rate: 14.69%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-02-28 08:51:45

End at: 2018-02-28 08:52:15

Local clock offset: 0.701 ms

Remote clock offset: 0.55 ms

Below is generated by plot.py at 2018-02-28 13:58:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 850.47 Mbit/s

95th percentile per-packet one-way delay: 77.329 ms

Loss rate: 11.44%

-- Flow 1:

Average throughput: 468.55 Mbit/s

95th percentile per-packet one-way delay: 70.948 ms

Loss rate: 10.18%

-- Flow 2:

Average throughput: 392.69 Mbit/s

95th percentile per-packet one-way delay: 82.038 ms

Loss rate: 12.54%

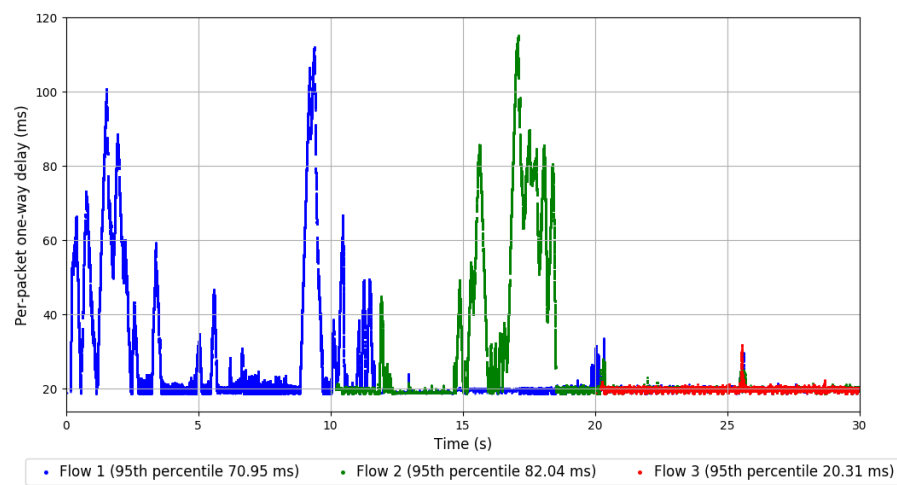
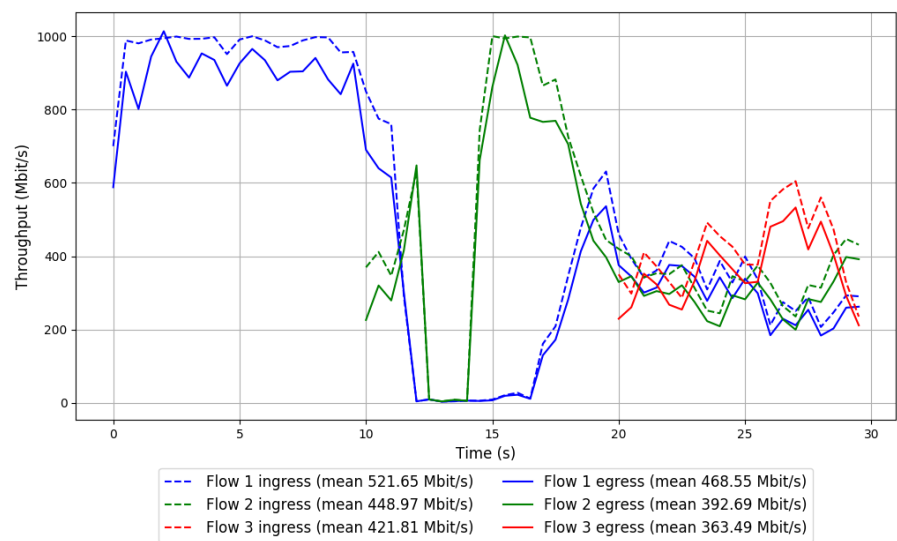
-- Flow 3:

Average throughput: 363.49 Mbit/s

95th percentile per-packet one-way delay: 20.311 ms

Loss rate: 13.81%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-02-28 09:24:32

End at: 2018-02-28 09:25:02

Local clock offset: 0.767 ms

Remote clock offset: 0.368 ms

Below is generated by plot.py at 2018-02-28 14:03:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 937.89 Mbit/s

95th percentile per-packet one-way delay: 29.444 ms

Loss rate: 11.23%

-- Flow 1:

Average throughput: 581.28 Mbit/s

95th percentile per-packet one-way delay: 40.061 ms

Loss rate: 9.03%

-- Flow 2:

Average throughput: 356.57 Mbit/s

95th percentile per-packet one-way delay: 20.337 ms

Loss rate: 14.46%

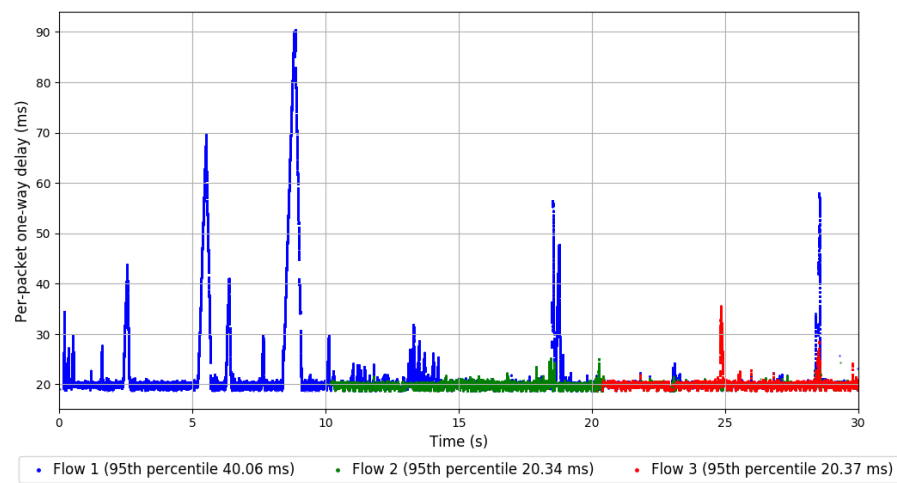
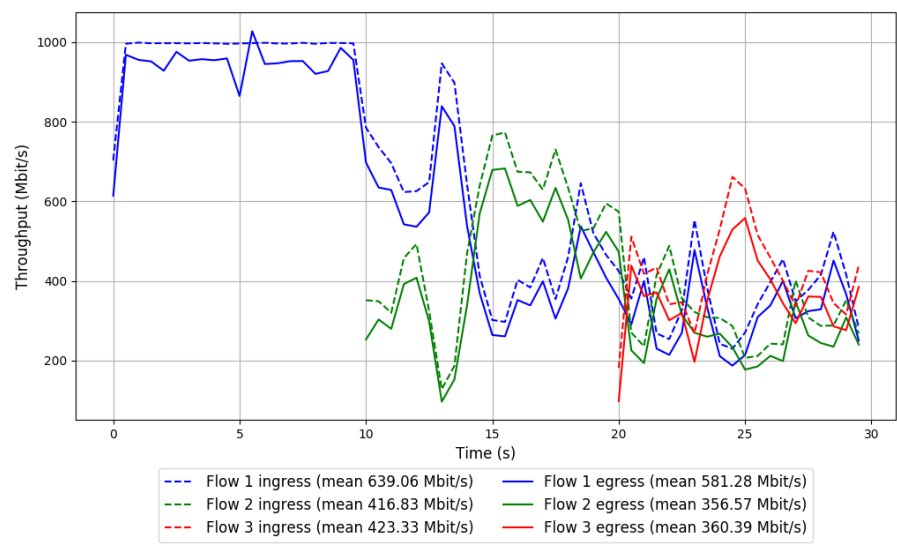
-- Flow 3:

Average throughput: 360.39 Mbit/s

95th percentile per-packet one-way delay: 20.374 ms

Loss rate: 14.88%

Run 10: Report of FillP — Data Link

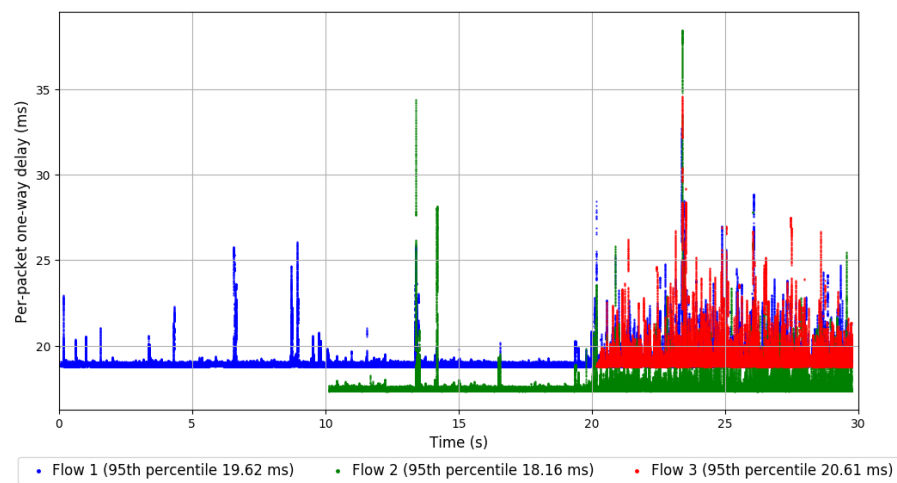
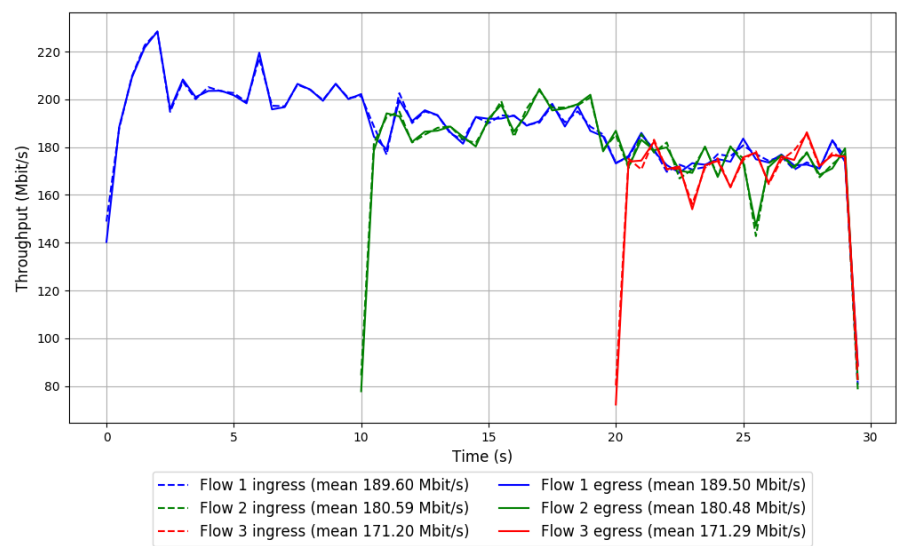


```
Run 1: Statistics of Indigo-1-32

Start at: 2018-02-28 05:10:31
End at: 2018-02-28 05:11:01
Local clock offset: 1.416 ms
Remote clock offset: -4.474 ms

# Below is generated by plot.py at 2018-02-28 14:03:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 363.76 Mbit/s
95th percentile per-packet one-way delay: 19.595 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 189.50 Mbit/s
95th percentile per-packet one-way delay: 19.624 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 180.48 Mbit/s
95th percentile per-packet one-way delay: 18.165 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 171.29 Mbit/s
95th percentile per-packet one-way delay: 20.608 ms
Loss rate: 0.03%
```

Run 1: Report of Indigo-1-32 — Data Link



Run 2: Statistics of Indigo-1-32

Start at: 2018-02-28 05:39:33

End at: 2018-02-28 05:40:03

Local clock offset: 1.398 ms

Remote clock offset: 0.885 ms

Below is generated by plot.py at 2018-02-28 14:03:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 371.81 Mbit/s

95th percentile per-packet one-way delay: 19.687 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 193.68 Mbit/s

95th percentile per-packet one-way delay: 19.441 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 185.02 Mbit/s

95th percentile per-packet one-way delay: 19.560 ms

Loss rate: 0.02%

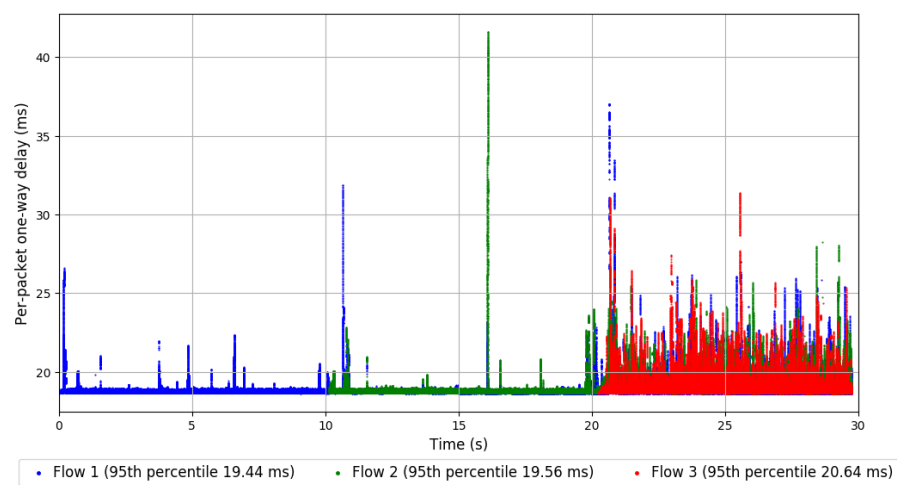
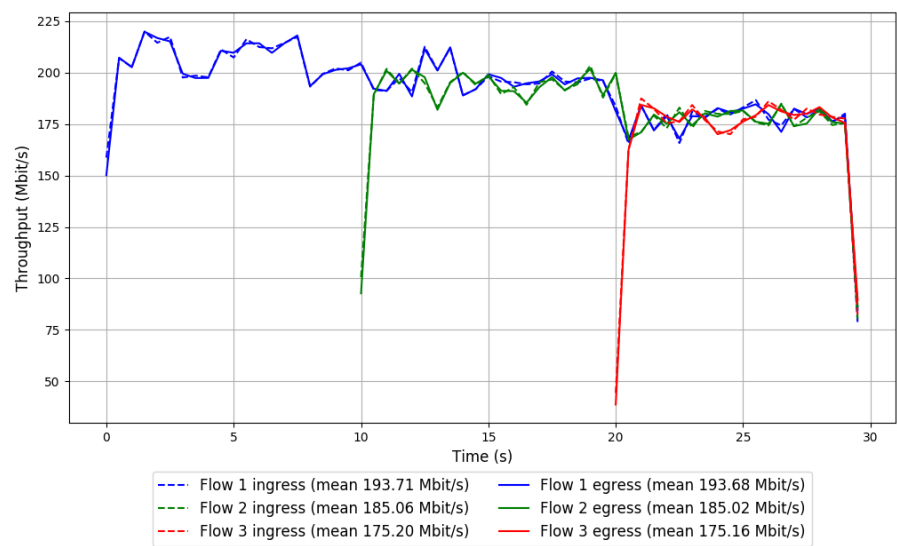
-- Flow 3:

Average throughput: 175.16 Mbit/s

95th percentile per-packet one-way delay: 20.637 ms

Loss rate: 0.02%

Run 2: Report of Indigo-1-32 — Data Link



Run 3: Statistics of Indigo-1-32

Start at: 2018-02-28 06:08:47

End at: 2018-02-28 06:09:17

Local clock offset: 1.113 ms

Remote clock offset: 0.429 ms

Below is generated by plot.py at 2018-02-28 14:03:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 365.28 Mbit/s

95th percentile per-packet one-way delay: 19.491 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 189.42 Mbit/s

95th percentile per-packet one-way delay: 19.560 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 182.29 Mbit/s

95th percentile per-packet one-way delay: 18.237 ms

Loss rate: 0.03%

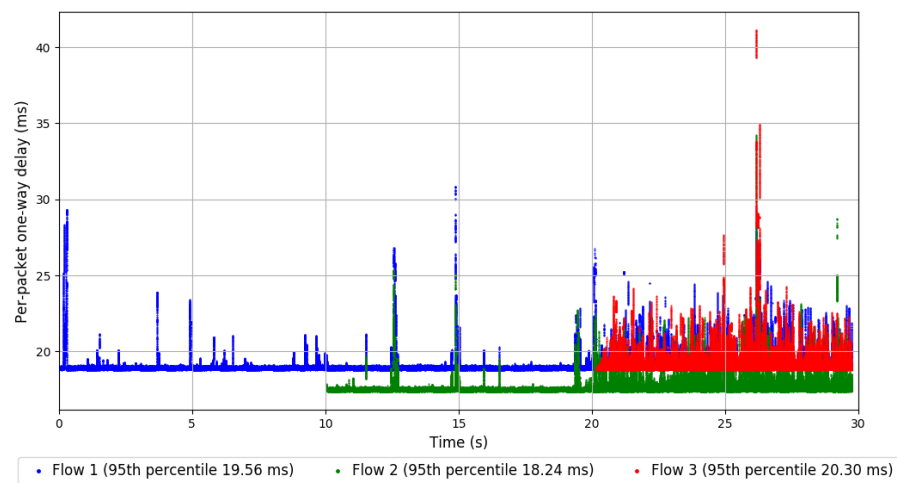
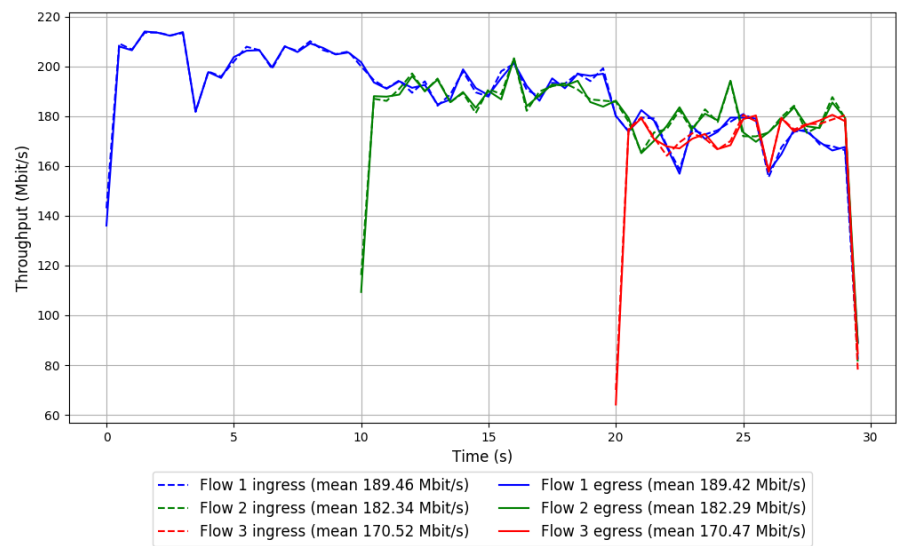
-- Flow 3:

Average throughput: 170.47 Mbit/s

95th percentile per-packet one-way delay: 20.297 ms

Loss rate: 0.03%

Run 3: Report of Indigo-1-32 — Data Link



Run 4: Statistics of Indigo-1-32

Start at: 2018-02-28 06:37:55

End at: 2018-02-28 06:38:25

Local clock offset: -0.314 ms

Remote clock offset: 0.132 ms

Below is generated by plot.py at 2018-02-28 14:03:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 373.33 Mbit/s

95th percentile per-packet one-way delay: 19.317 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 193.68 Mbit/s

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

Loss rate: 0.01%

-- Flow 2:

Average throughput: 187.57 Mbit/s

95th percentile per-packet one-way delay: 19.604 ms

Loss rate: 0.01%

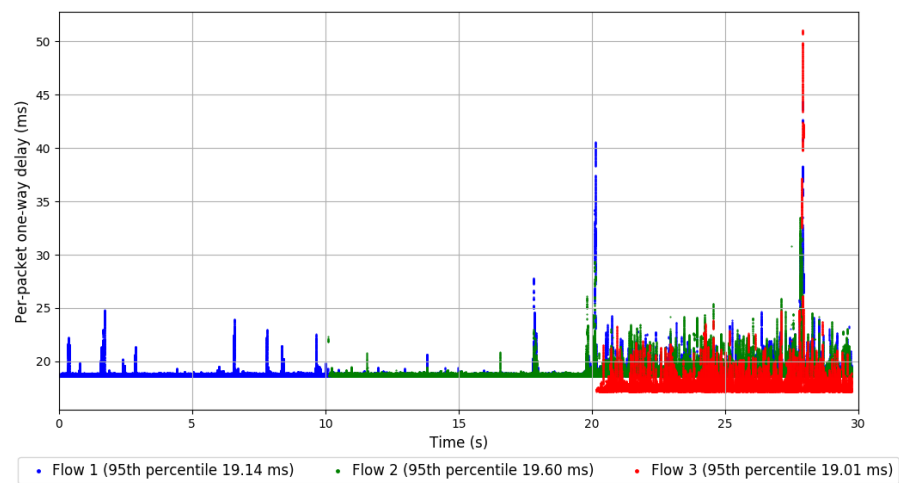
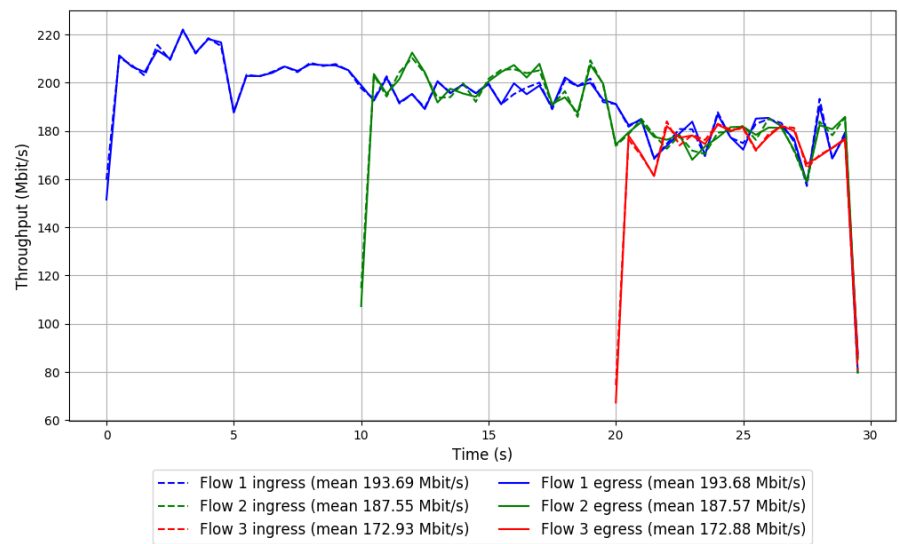
-- Flow 3:

Average throughput: 172.88 Mbit/s

95th percentile per-packet one-way delay: 19.013 ms

Loss rate: 0.01%

Run 4: Report of Indigo-1-32 — Data Link



Run 5: Statistics of Indigo-1-32

Start at: 2018-02-28 07:06:53

End at: 2018-02-28 07:07:23

Local clock offset: 0.544 ms

Remote clock offset: 0.32 ms

Below is generated by plot.py at 2018-02-28 14:03:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 372.11 Mbit/s

95th percentile per-packet one-way delay: 19.471 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 192.07 Mbit/s

95th percentile per-packet one-way delay: 19.233 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 187.98 Mbit/s

95th percentile per-packet one-way delay: 19.305 ms

Loss rate: 0.02%

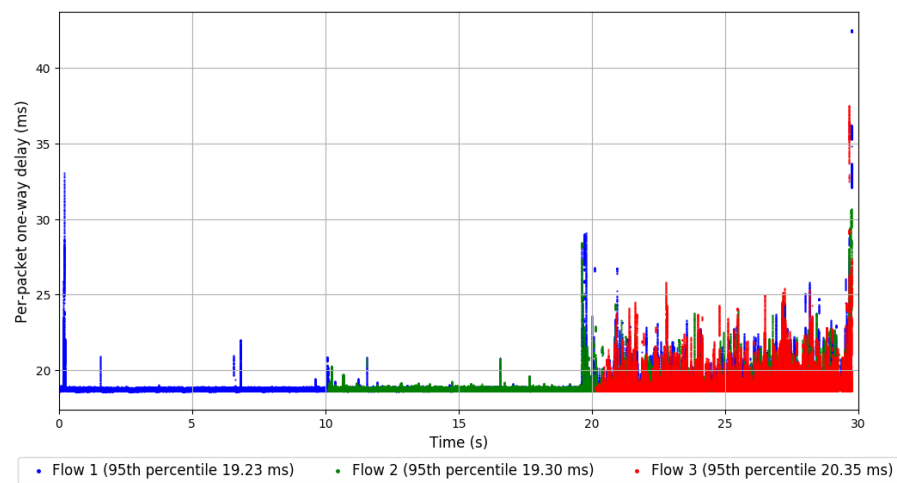
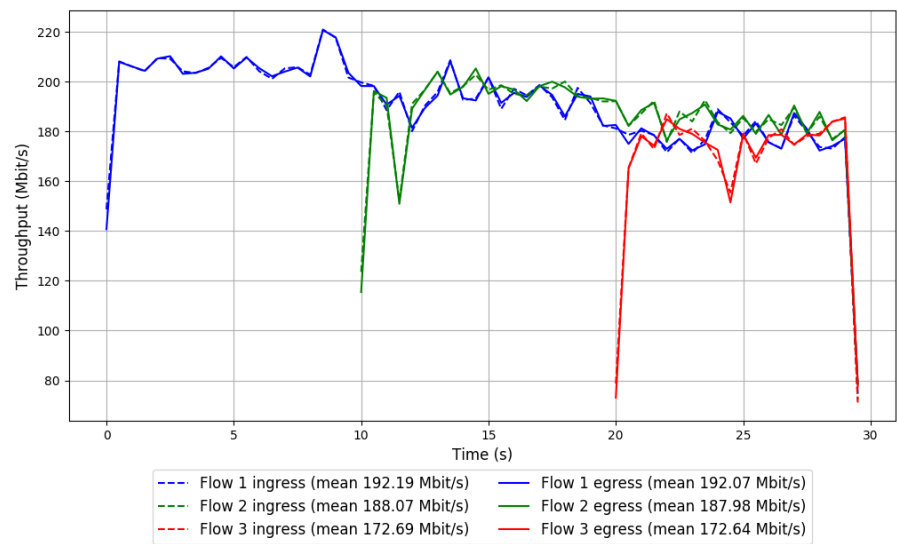
-- Flow 3:

Average throughput: 172.64 Mbit/s

95th percentile per-packet one-way delay: 20.348 ms

Loss rate: 0.03%

Run 5: Report of Indigo-1-32 — Data Link



Run 6: Statistics of Indigo-1-32

Start at: 2018-02-28 07:36:16

End at: 2018-02-28 07:36:46

Local clock offset: 0.968 ms

Remote clock offset: 1.121 ms

Below is generated by plot.py at 2018-02-28 14:03:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 370.63 Mbit/s

95th percentile per-packet one-way delay: 19.414 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 193.32 Mbit/s

95th percentile per-packet one-way delay: 17.959 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 184.21 Mbit/s

95th percentile per-packet one-way delay: 19.716 ms

Loss rate: 0.03%

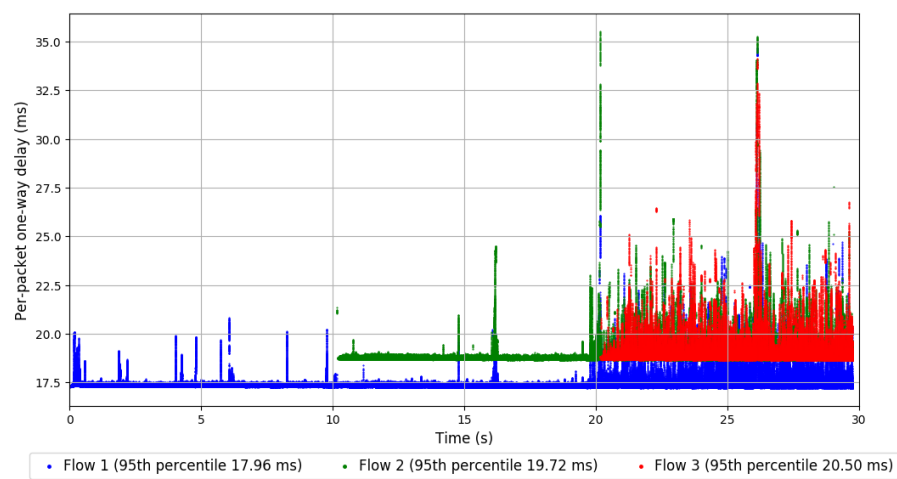
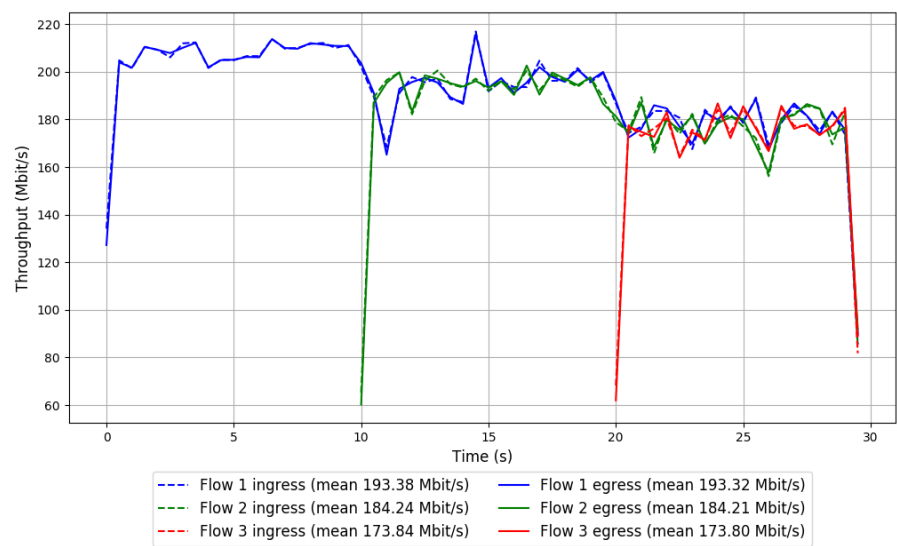
-- Flow 3:

Average throughput: 173.80 Mbit/s

95th percentile per-packet one-way delay: 20.500 ms

Loss rate: 0.03%

Run 6: Report of Indigo-1-32 — Data Link



Run 7: Statistics of Indigo-1-32

Start at: 2018-02-28 08:05:04

End at: 2018-02-28 08:05:34

Local clock offset: 1.153 ms

Remote clock offset: 3.136 ms

Below is generated by plot.py at 2018-02-28 14:03:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 369.41 Mbit/s

95th percentile per-packet one-way delay: 19.640 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 193.36 Mbit/s

95th percentile per-packet one-way delay: 19.191 ms

Loss rate: 0.12%

-- Flow 2:

Average throughput: 181.35 Mbit/s

95th percentile per-packet one-way delay: 19.752 ms

Loss rate: 0.13%

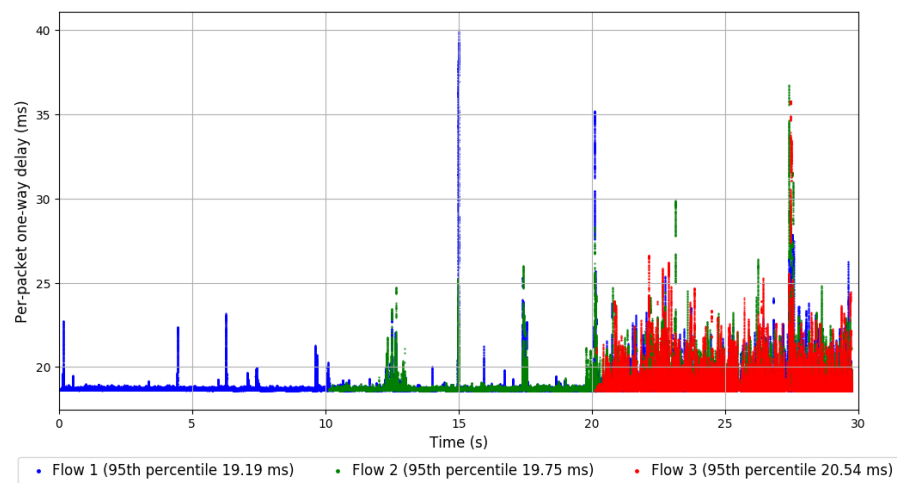
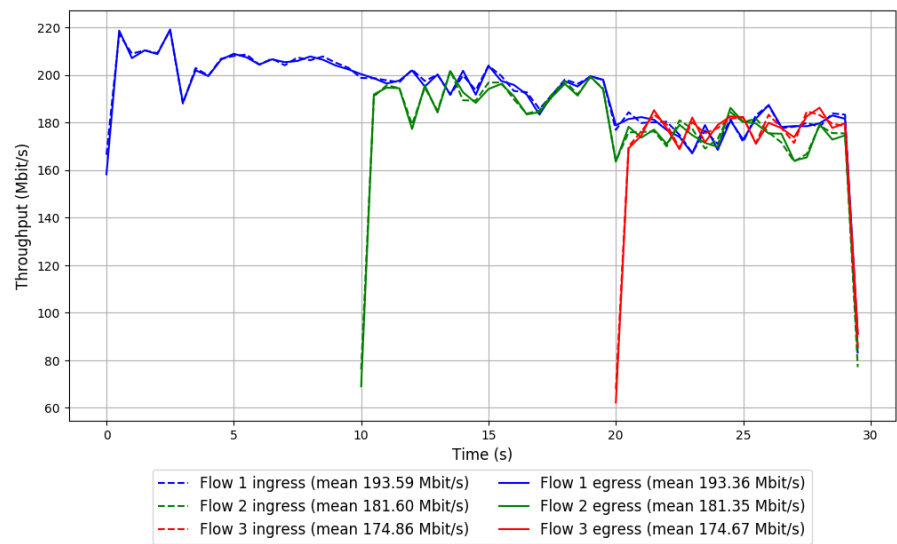
-- Flow 3:

Average throughput: 174.67 Mbit/s

95th percentile per-packet one-way delay: 20.538 ms

Loss rate: 0.11%

Run 7: Report of Indigo-1-32 — Data Link



Run 8: Statistics of Indigo-1-32

Start at: 2018-02-28 08:33:56

End at: 2018-02-28 08:34:26

Local clock offset: 0.864 ms

Remote clock offset: -0.5 ms

Below is generated by plot.py at 2018-02-28 14:03:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 370.46 Mbit/s

95th percentile per-packet one-way delay: 19.583 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 192.21 Mbit/s

95th percentile per-packet one-way delay: 19.292 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 184.08 Mbit/s

95th percentile per-packet one-way delay: 19.491 ms

Loss rate: 0.06%

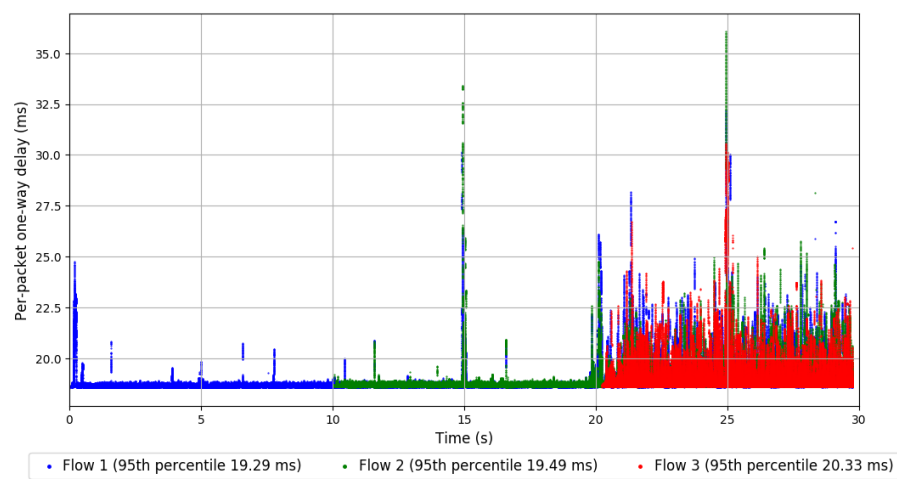
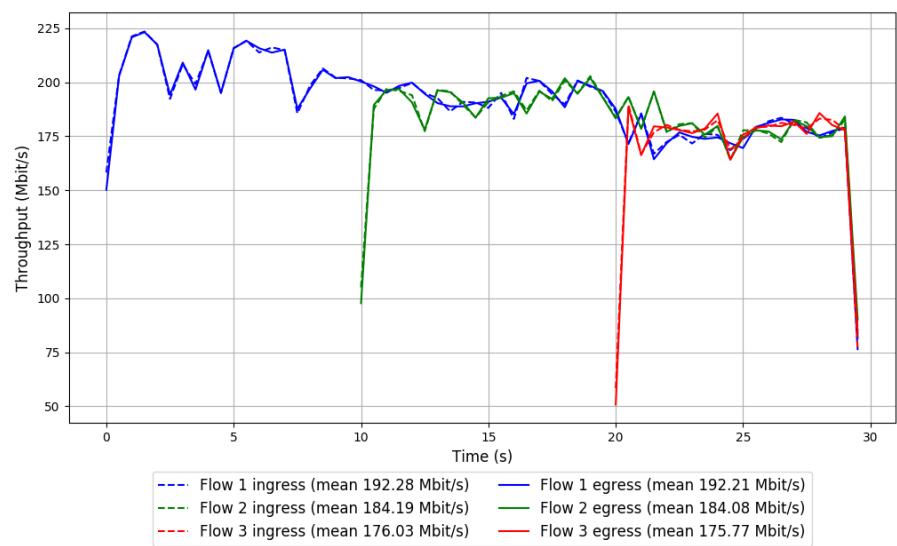
-- Flow 3:

Average throughput: 175.77 Mbit/s

95th percentile per-packet one-way delay: 20.326 ms

Loss rate: 0.09%

Run 8: Report of Indigo-1-32 — Data Link



Run 9: Statistics of Indigo-1-32

Start at: 2018-02-28 09:02:52

End at: 2018-02-28 09:03:22

Local clock offset: 0.798 ms

Remote clock offset: 0.993 ms

Below is generated by plot.py at 2018-02-28 14:03:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 370.88 Mbit/s

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

Loss rate: 0.06%

-- Flow 1:

Average throughput: 194.25 Mbit/s

95th percentile per-packet one-way delay: 19.065 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 184.95 Mbit/s

95th percentile per-packet one-way delay: 19.806 ms

Loss rate: 0.05%

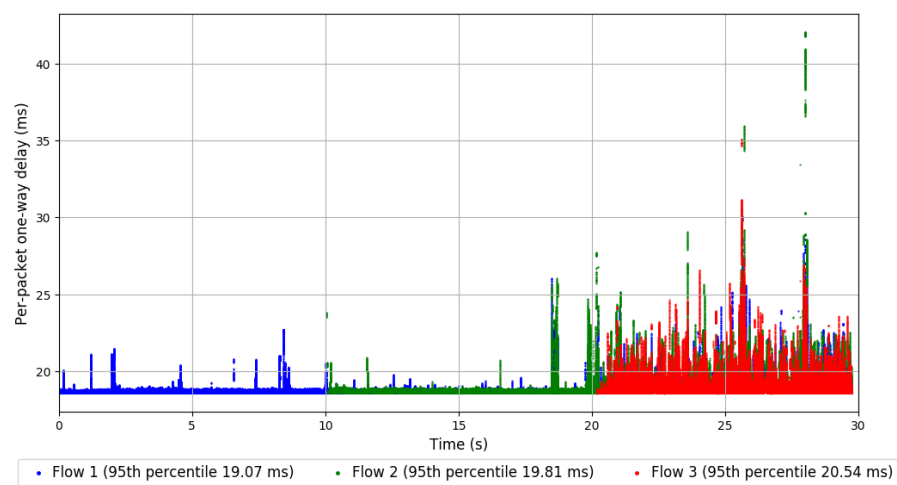
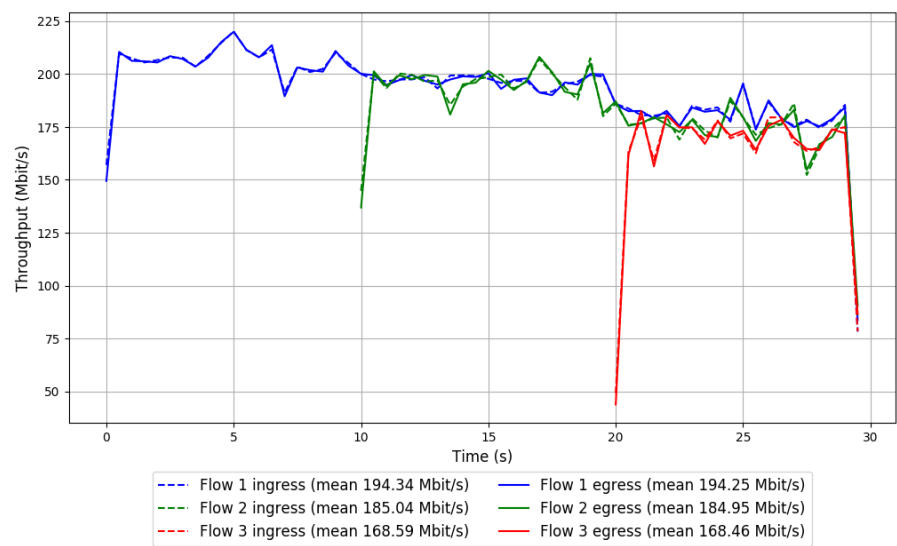
-- Flow 3:

Average throughput: 168.46 Mbit/s

95th percentile per-packet one-way delay: 20.535 ms

Loss rate: 0.08%

Run 9: Report of Indigo-1-32 — Data Link

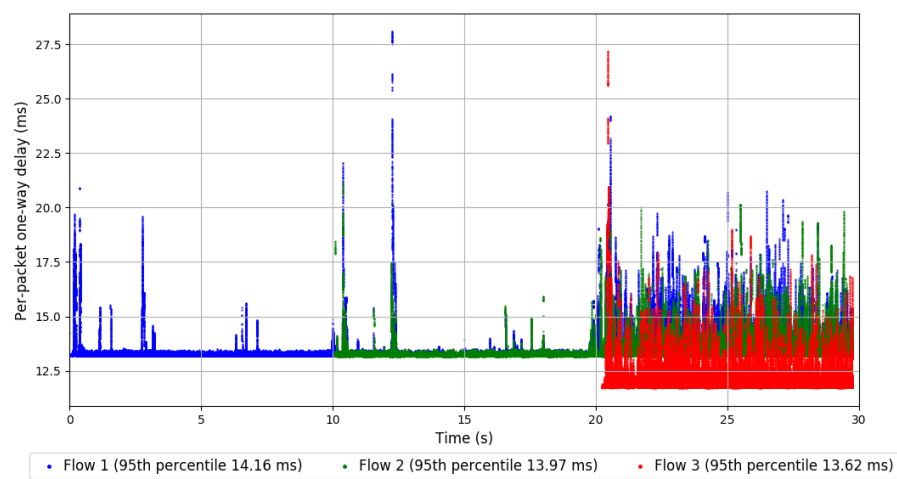
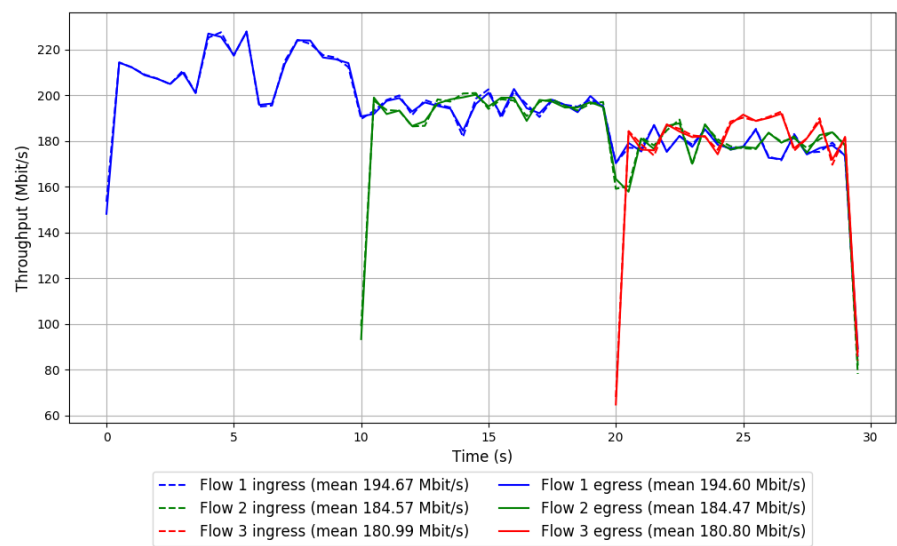


Run 10: Statistics of Indigo-1-32

Start at: 2018-02-28 09:35:40
End at: 2018-02-28 09:36:10
Local clock offset: 6.327 ms
Remote clock offset: -0.062 ms

Below is generated by plot.py at 2018-02-28 14:03:52
Datalink statistics
-- Total of 3 flows:
Average throughput: 374.82 Mbit/s
95th percentile per-packet one-way delay: 14.021 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 194.60 Mbit/s
95th percentile per-packet one-way delay: 14.158 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 184.47 Mbit/s
95th percentile per-packet one-way delay: 13.975 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 180.80 Mbit/s
95th percentile per-packet one-way delay: 13.621 ms
Loss rate: 0.08%

Run 10: Report of Indigo-1-32 — Data Link



Run 1: Statistics of Vivace-latency

Start at: 2018-02-28 04:54:35

End at: 2018-02-28 04:55:06

Local clock offset: 1.574 ms

Remote clock offset: -4.69 ms

Below is generated by plot.py at 2018-02-28 14:05:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 499.61 Mbit/s

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

Loss rate: 0.03%

-- Flow 1:

Average throughput: 283.55 Mbit/s

95th percentile per-packet one-way delay: 17.544 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 288.11 Mbit/s

95th percentile per-packet one-way delay: 18.980 ms

Loss rate: 0.05%

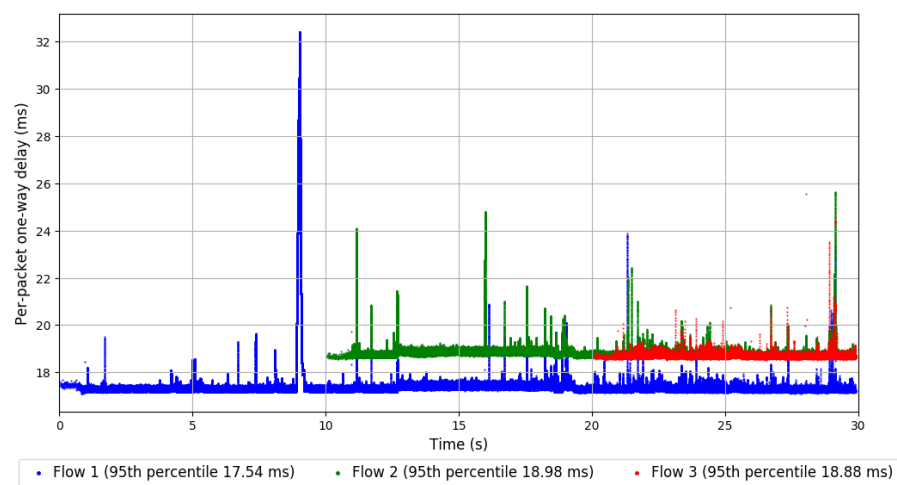
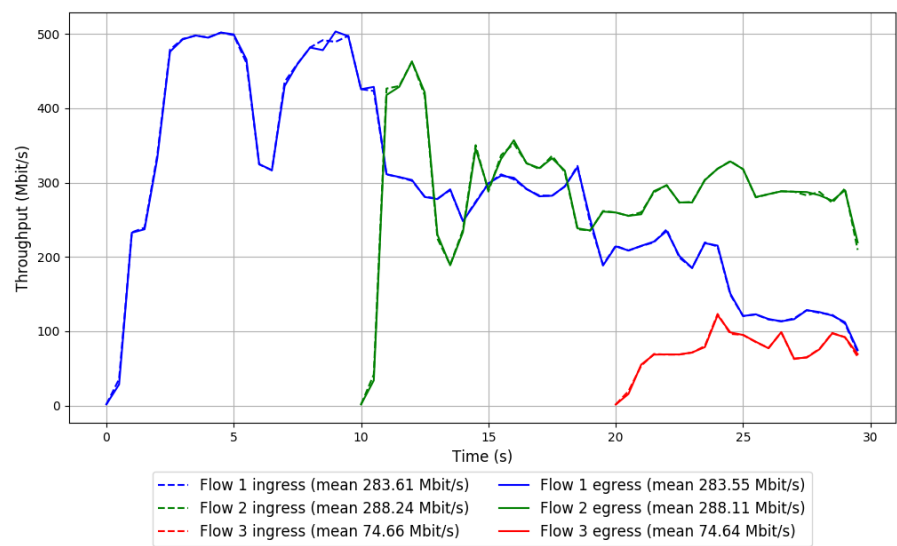
-- Flow 3:

Average throughput: 74.64 Mbit/s

95th percentile per-packet one-way delay: 18.883 ms

Loss rate: 0.03%

Run 1: Report of Vivace-latency — Data Link



Run 2: Statistics of Vivace-latency

Start at: 2018-02-28 05:23:12

End at: 2018-02-28 05:23:42

Local clock offset: 1.422 ms

Remote clock offset: -2.09 ms

Below is generated by plot.py at 2018-02-28 14:06:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 536.28 Mbit/s

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

Loss rate: 0.04%

-- Flow 1:

Average throughput: 320.38 Mbit/s

95th percentile per-packet one-way delay: 18.826 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 254.74 Mbit/s

95th percentile per-packet one-way delay: 18.980 ms

Loss rate: 0.05%

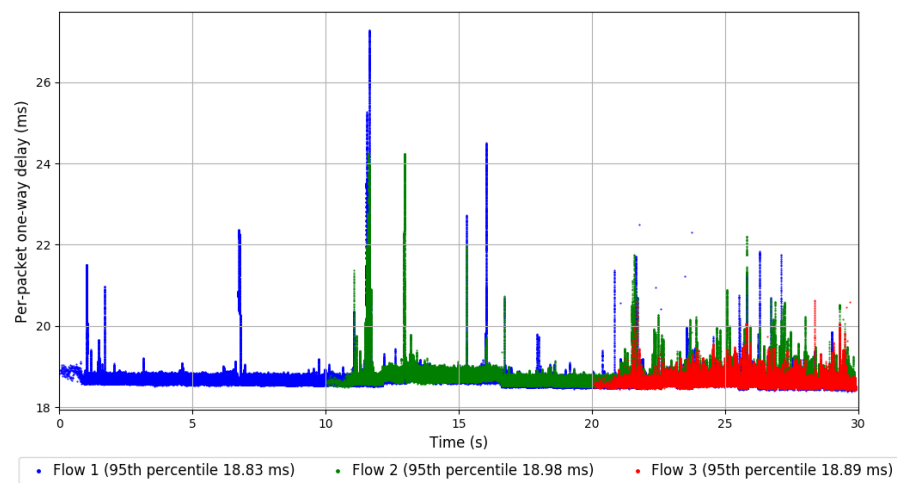
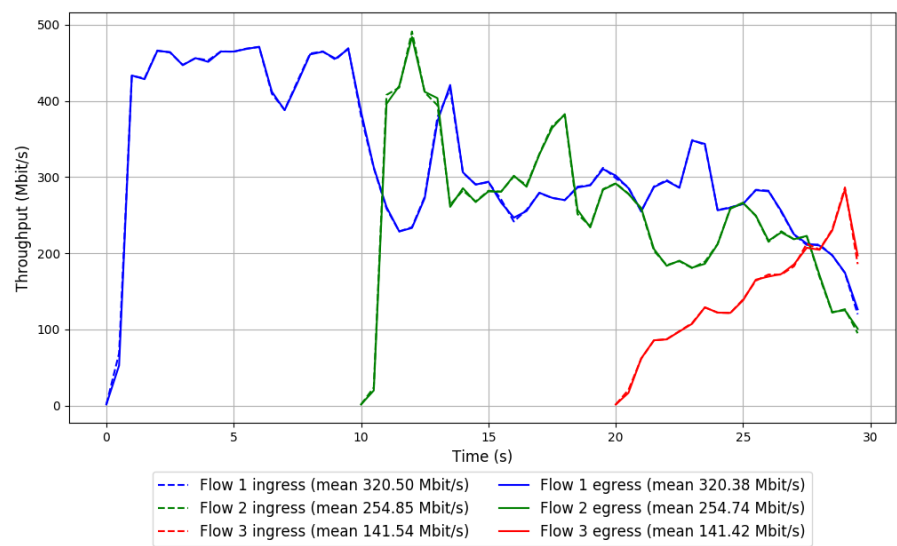
-- Flow 3:

Average throughput: 141.42 Mbit/s

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

Loss rate: 0.08%

Run 2: Report of Vivace-latency — Data Link



Run 3: Statistics of Vivace-latency

Start at: 2018-02-28 05:52:17

End at: 2018-02-28 05:52:47

Local clock offset: 1.304 ms

Remote clock offset: 1.842 ms

Below is generated by plot.py at 2018-02-28 14:06:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 470.26 Mbit/s

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

Loss rate: 0.06%

-- Flow 1:

Average throughput: 297.62 Mbit/s

95th percentile per-packet one-way delay: 19.037 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 222.95 Mbit/s

95th percentile per-packet one-way delay: 19.104 ms

Loss rate: 0.05%

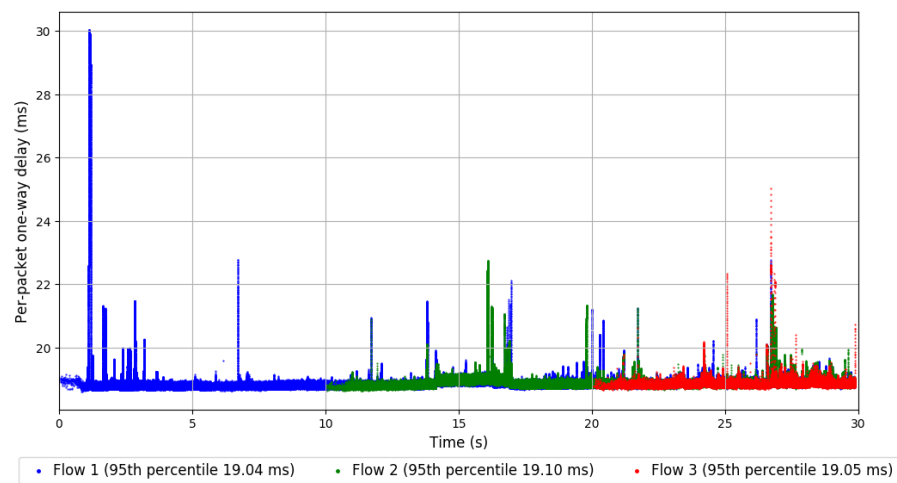
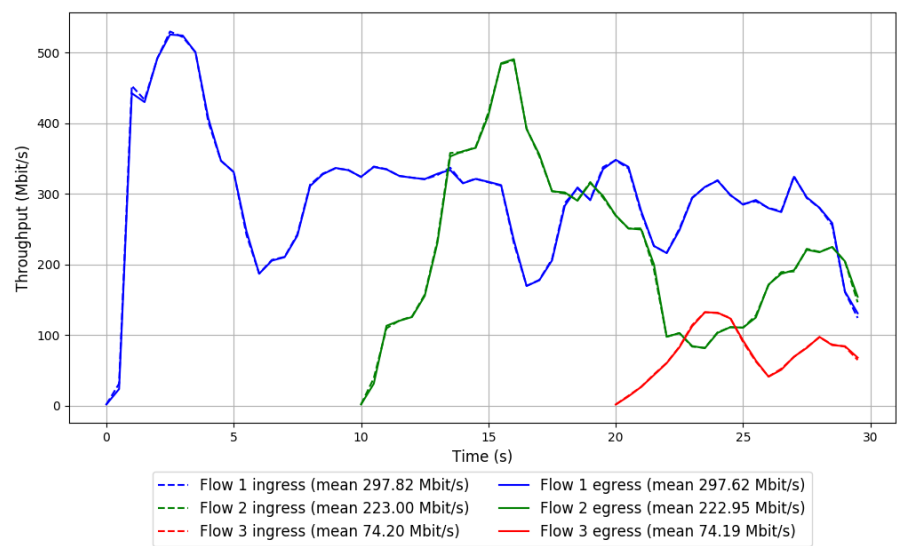
-- Flow 3:

Average throughput: 74.19 Mbit/s

95th percentile per-packet one-way delay: 19.054 ms

Loss rate: 0.02%

Run 3: Report of Vivace-latency — Data Link



Run 4: Statistics of Vivace-latency

Start at: 2018-02-28 06:21:35

End at: 2018-02-28 06:22:05

Local clock offset: 1.193 ms

Remote clock offset: 0.489 ms

Below is generated by plot.py at 2018-02-28 14:06:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 535.28 Mbit/s

95th percentile per-packet one-way delay: 19.979 ms

Loss rate: 0.13%

-- Flow 1:

Average throughput: 325.39 Mbit/s

95th percentile per-packet one-way delay: 23.448 ms

Loss rate: 0.12%

-- Flow 2:

Average throughput: 292.63 Mbit/s

95th percentile per-packet one-way delay: 19.089 ms

Loss rate: 0.17%

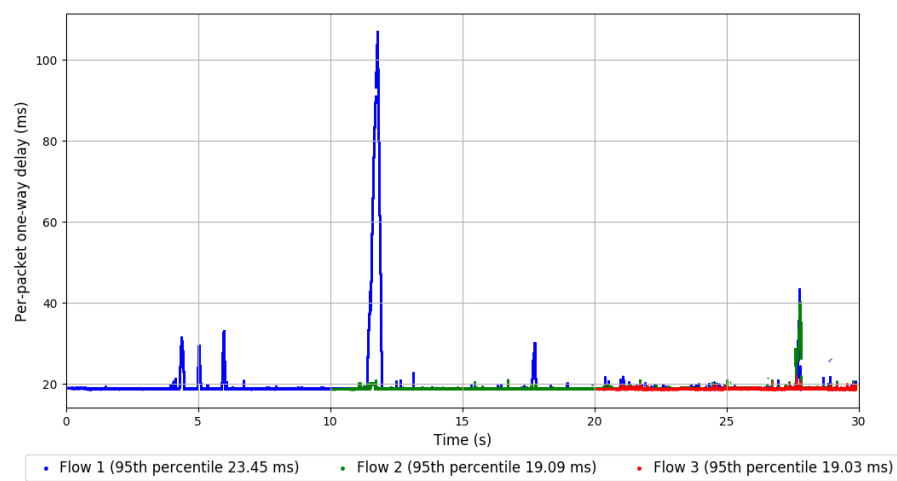
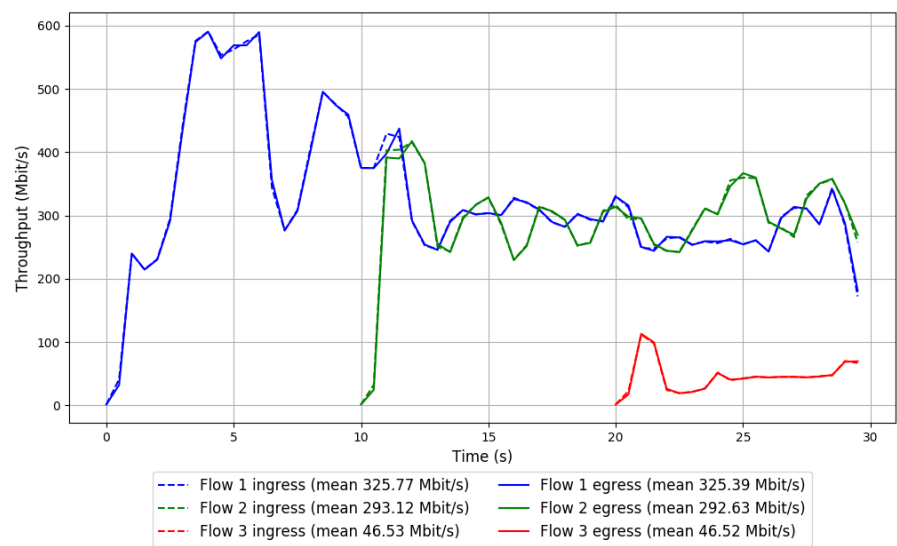
-- Flow 3:

Average throughput: 46.52 Mbit/s

95th percentile per-packet one-way delay: 19.026 ms

Loss rate: 0.02%

Run 4: Report of Vivace-latency — Data Link



Run 5: Statistics of Vivace-latency

Start at: 2018-02-28 06:50:40

End at: 2018-02-28 06:51:10

Local clock offset: -0.707 ms

Remote clock offset: 0.208 ms

Below is generated by plot.py at 2018-02-28 14:09:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 509.06 Mbit/s

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

Loss rate: 0.02%

-- Flow 1:

Average throughput: 311.21 Mbit/s

95th percentile per-packet one-way delay: 19.692 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 265.76 Mbit/s

95th percentile per-packet one-way delay: 18.905 ms

Loss rate: 0.01%

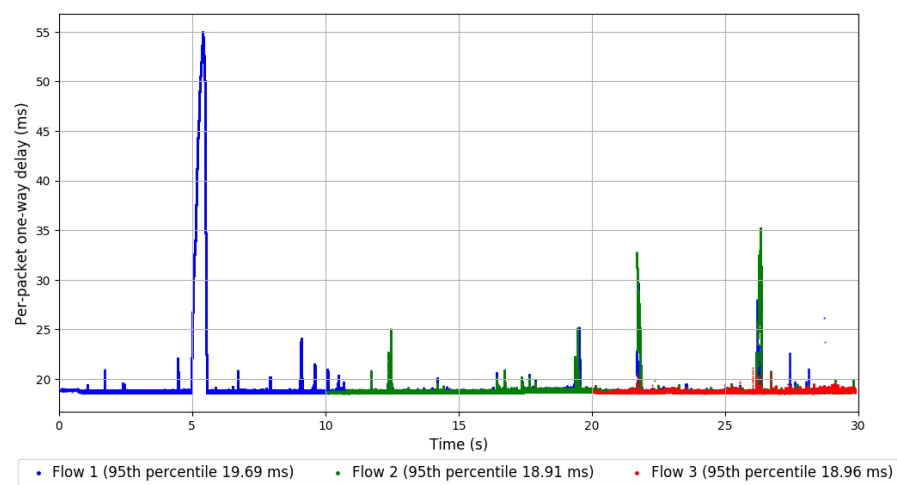
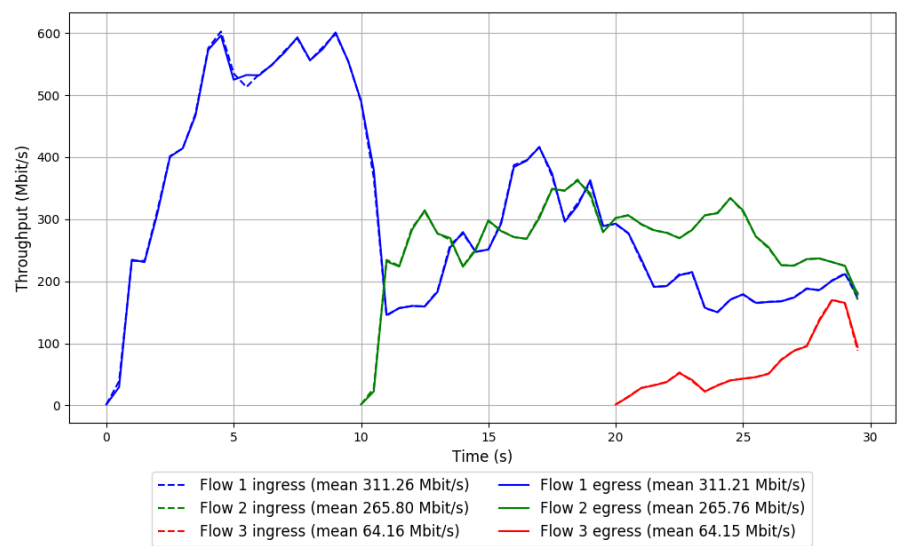
-- Flow 3:

Average throughput: 64.15 Mbit/s

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

Loss rate: 0.02%

Run 5: Report of Vivace-latency — Data Link



Run 6: Statistics of Vivace-latency

Start at: 2018-02-28 07:19:42

End at: 2018-02-28 07:20:12

Local clock offset: 0.975 ms

Remote clock offset: 0.514 ms

Below is generated by plot.py at 2018-02-28 14:09:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 558.93 Mbit/s

95th percentile per-packet one-way delay: 62.672 ms

Loss rate: 0.58%

-- Flow 1:

Average throughput: 330.82 Mbit/s

95th percentile per-packet one-way delay: 99.602 ms

Loss rate: 0.93%

-- Flow 2:

Average throughput: 311.78 Mbit/s

95th percentile per-packet one-way delay: 19.022 ms

Loss rate: 0.07%

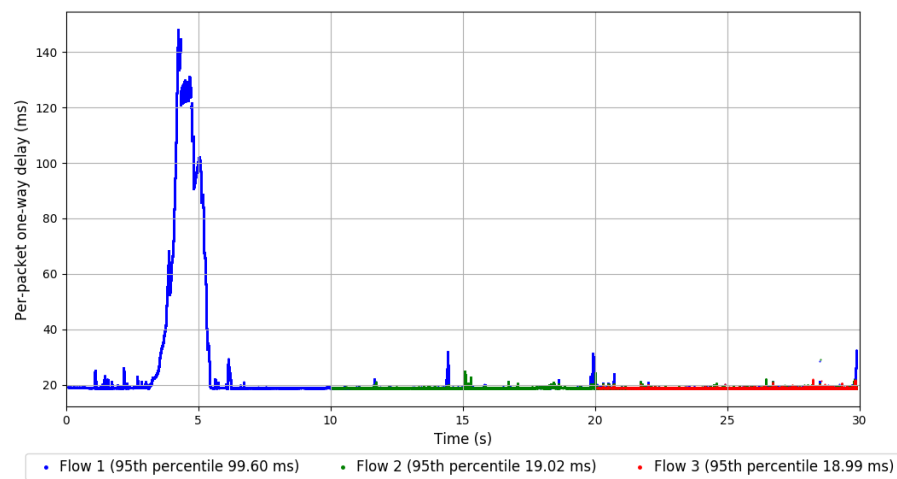
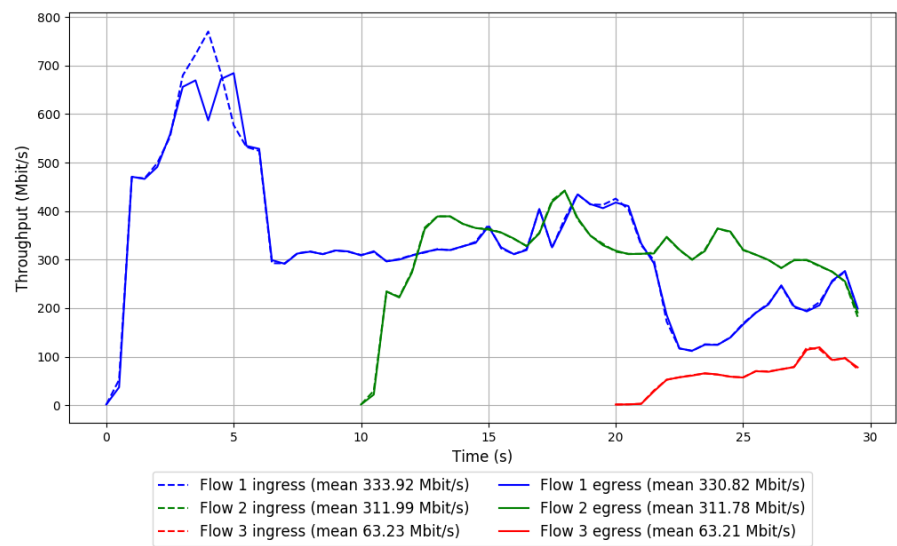
-- Flow 3:

Average throughput: 63.21 Mbit/s

95th percentile per-packet one-way delay: 18.989 ms

Loss rate: 0.03%

Run 6: Report of Vivace-latency — Data Link



Run 7: Statistics of Vivace-latency

Start at: 2018-02-28 07:48:59

End at: 2018-02-28 07:49:29

Local clock offset: 1.06 ms

Remote clock offset: 2.309 ms

Below is generated by plot.py at 2018-02-28 14:10:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 540.90 Mbit/s

95th percentile per-packet one-way delay: 20.139 ms

Loss rate: 0.16%

-- Flow 1:

Average throughput: 324.65 Mbit/s

95th percentile per-packet one-way delay: 22.742 ms

Loss rate: 0.15%

-- Flow 2:

Average throughput: 255.73 Mbit/s

95th percentile per-packet one-way delay: 17.996 ms

Loss rate: 0.16%

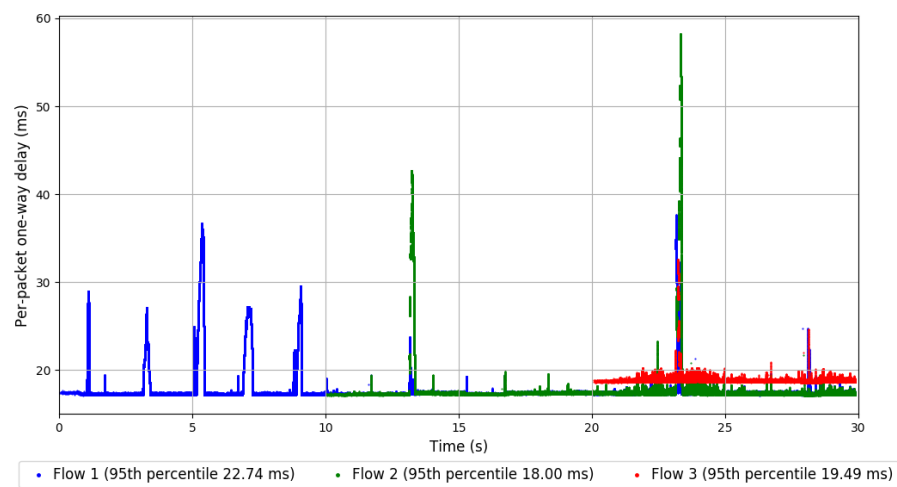
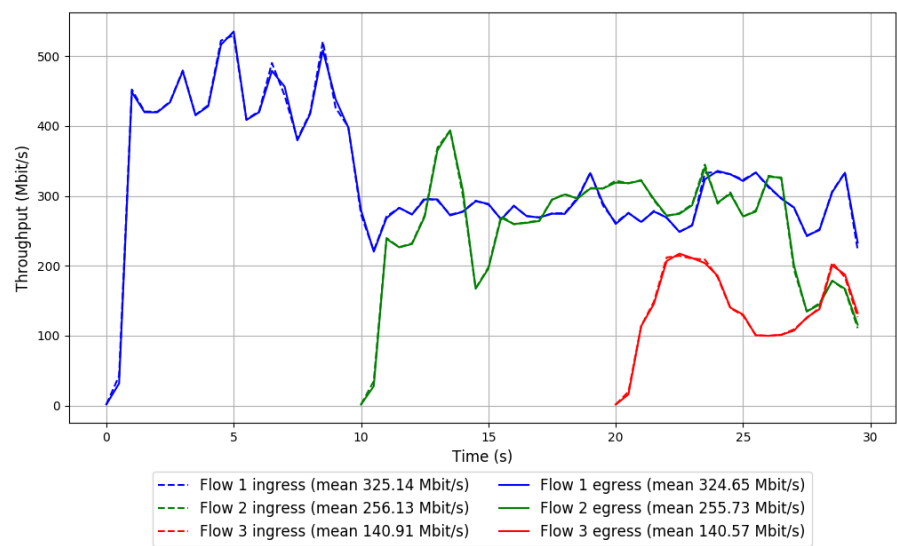
-- Flow 3:

Average throughput: 140.57 Mbit/s

95th percentile per-packet one-way delay: 19.486 ms

Loss rate: 0.24%

Run 7: Report of Vivace-latency — Data Link



Run 8: Statistics of Vivace-latency

Start at: 2018-02-28 08:17:50

End at: 2018-02-28 08:18:20

Local clock offset: 0.82 ms

Remote clock offset: 0.793 ms

Below is generated by plot.py at 2018-02-28 14:11:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 504.12 Mbit/s

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

Loss rate: 0.13%

-- Flow 1:

Average throughput: 326.64 Mbit/s

95th percentile per-packet one-way delay: 17.489 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 226.25 Mbit/s

95th percentile per-packet one-way delay: 18.928 ms

Loss rate: 0.12%

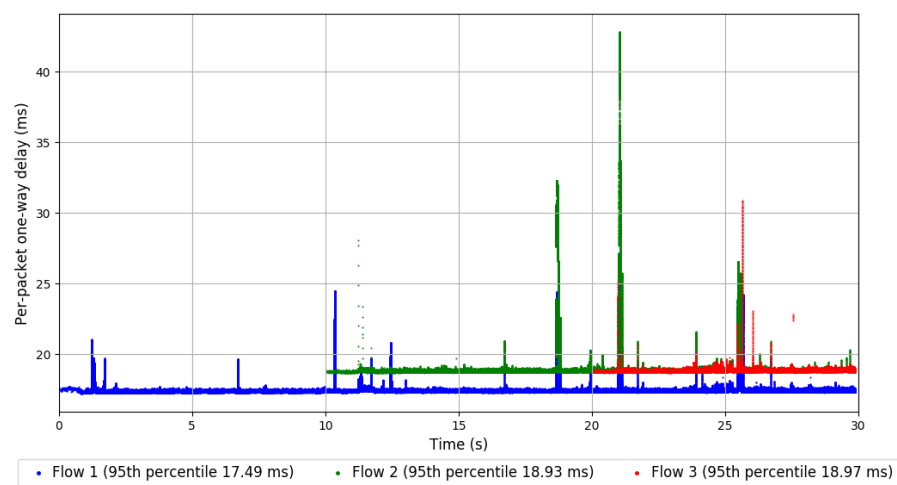
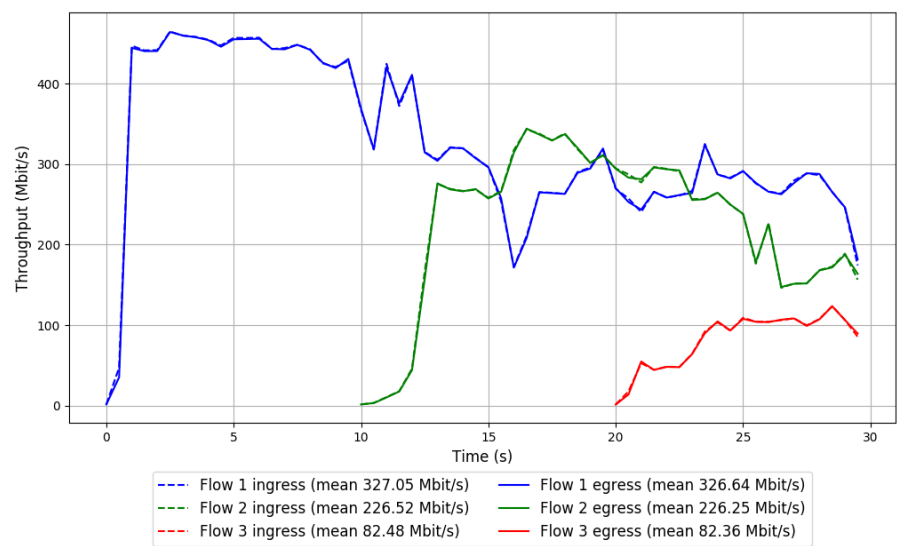
-- Flow 3:

Average throughput: 82.36 Mbit/s

95th percentile per-packet one-way delay: 18.973 ms

Loss rate: 0.15%

Run 8: Report of Vivace-latency — Data Link



Run 9: Statistics of Vivace-latency

Start at: 2018-02-28 08:46:41

End at: 2018-02-28 08:47:11

Local clock offset: 0.814 ms

Remote clock offset: 0.03 ms

Below is generated by plot.py at 2018-02-28 14:12:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 513.75 Mbit/s

95th percentile per-packet one-way delay: 18.878 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 314.41 Mbit/s

95th percentile per-packet one-way delay: 18.910 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 268.27 Mbit/s

95th percentile per-packet one-way delay: 17.528 ms

Loss rate: 0.07%

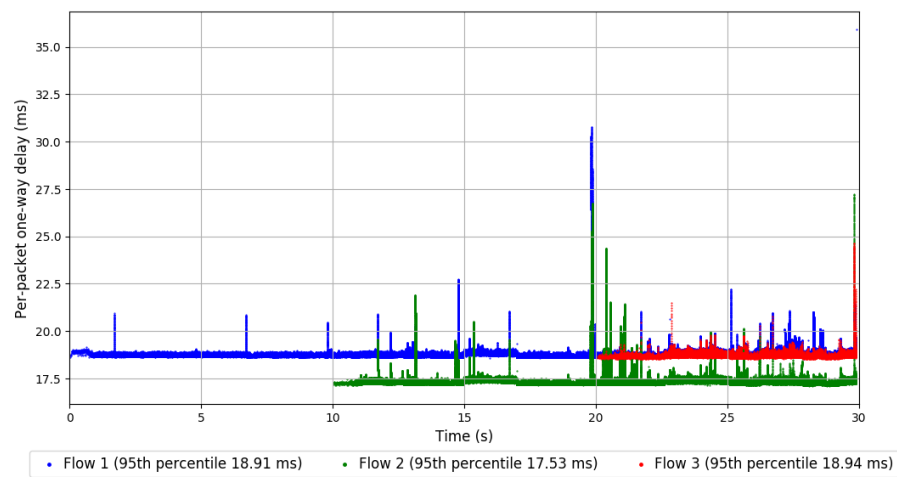
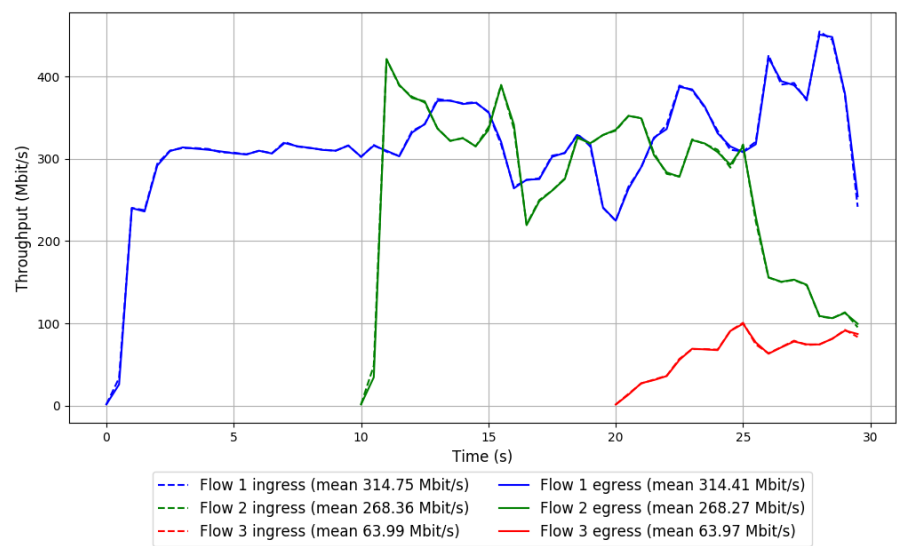
-- Flow 3:

Average throughput: 63.97 Mbit/s

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

Loss rate: 0.04%

Run 9: Report of Vivace-latency — Data Link



Run 10: Statistics of Vivace-latency

Start at: 2018-02-28 09:15:39

End at: 2018-02-28 09:16:09

Local clock offset: 0.784 ms

Remote clock offset: 1.134 ms

Below is generated by plot.py at 2018-02-28 14:12:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 489.45 Mbit/s

95th percentile per-packet one-way delay: 18.925 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 272.27 Mbit/s

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

Loss rate: 0.05%

-- Flow 2:

Average throughput: 288.57 Mbit/s

95th percentile per-packet one-way delay: 17.602 ms

Loss rate: 0.04%

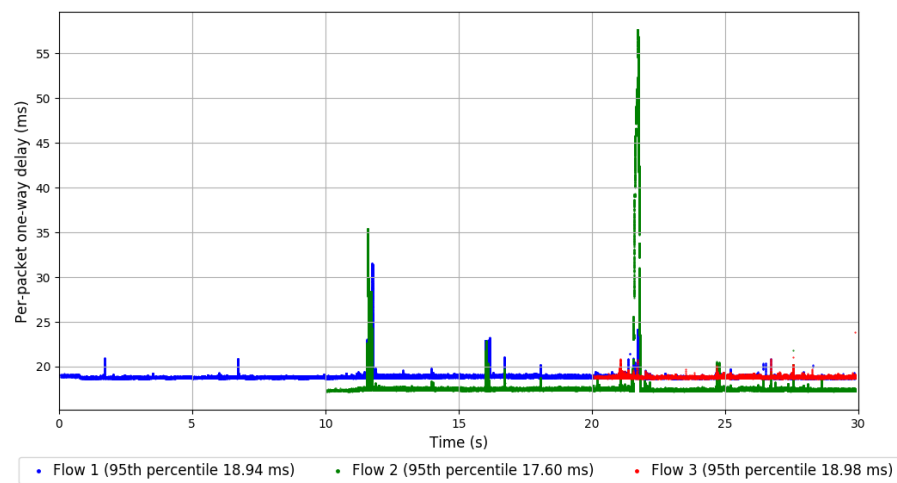
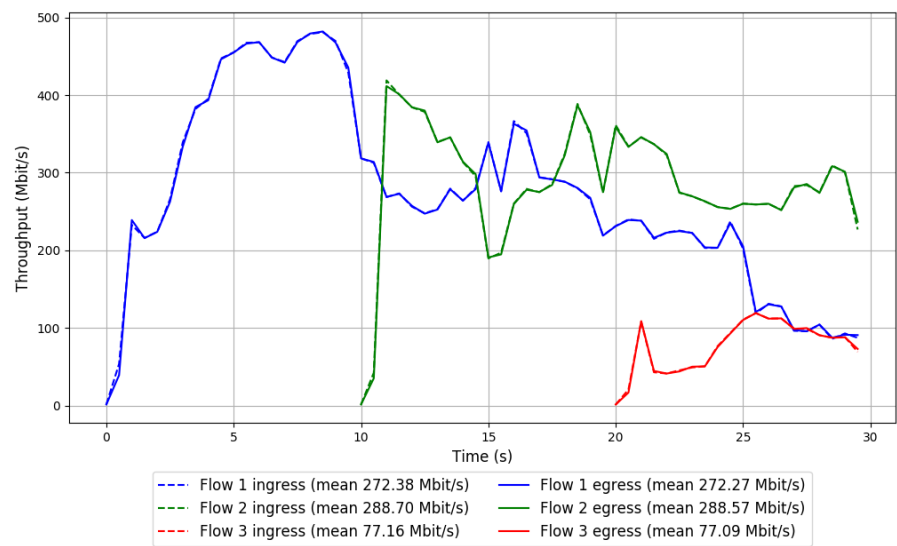
-- Flow 3:

Average throughput: 77.09 Mbit/s

95th percentile per-packet one-way delay: 18.977 ms

Loss rate: 0.03%

Run 10: Report of Vivace-latency — Data Link

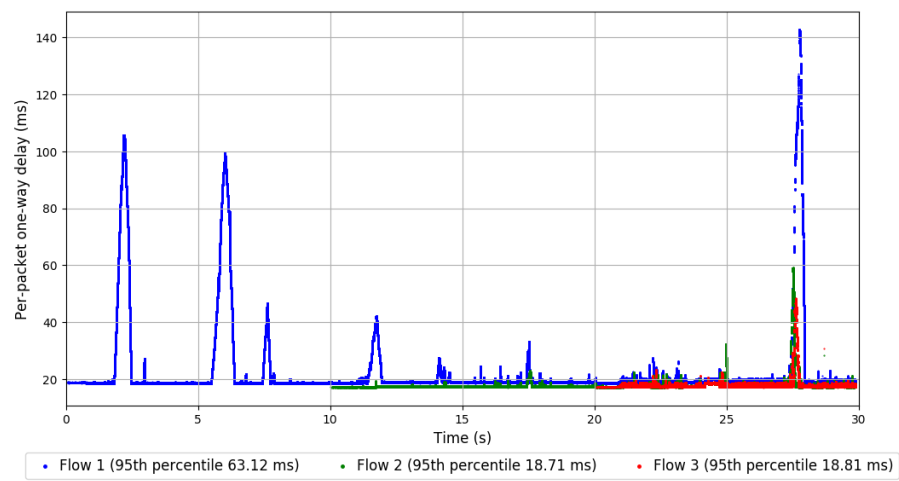
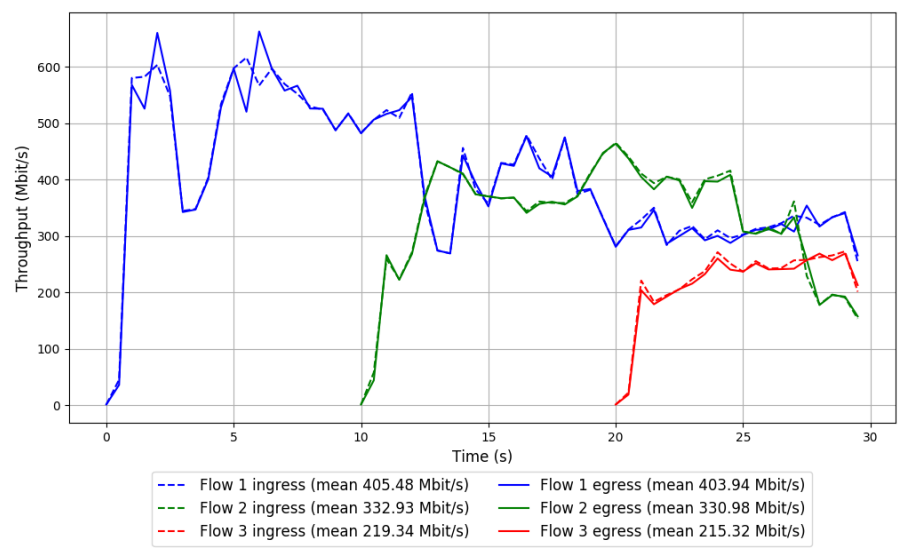


Run 1: Statistics of Vivace-loss

Start at: 2018-02-28 05:07:17
End at: 2018-02-28 05:07:47
Local clock offset: 1.465 ms
Remote clock offset: -4.639 ms

Below is generated by plot.py at 2018-02-28 14:15:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 694.83 Mbit/s
95th percentile per-packet one-way delay: 37.327 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 403.94 Mbit/s
95th percentile per-packet one-way delay: 63.125 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 330.98 Mbit/s
95th percentile per-packet one-way delay: 18.711 ms
Loss rate: 0.58%
-- Flow 3:
Average throughput: 215.32 Mbit/s
95th percentile per-packet one-way delay: 18.806 ms
Loss rate: 1.83%

Run 1: Report of Vivace-loss — Data Link



Run 2: Statistics of Vivace-loss

Start at: 2018-02-28 05:36:19

End at: 2018-02-28 05:36:49

Local clock offset: 1.361 ms

Remote clock offset: 0.497 ms

Below is generated by plot.py at 2018-02-28 14:16:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 687.88 Mbit/s

95th percentile per-packet one-way delay: 23.451 ms

Loss rate: 1.06%

-- Flow 1:

Average throughput: 373.44 Mbit/s

95th percentile per-packet one-way delay: 30.270 ms

Loss rate: 0.69%

-- Flow 2:

Average throughput: 381.87 Mbit/s

95th percentile per-packet one-way delay: 20.808 ms

Loss rate: 1.19%

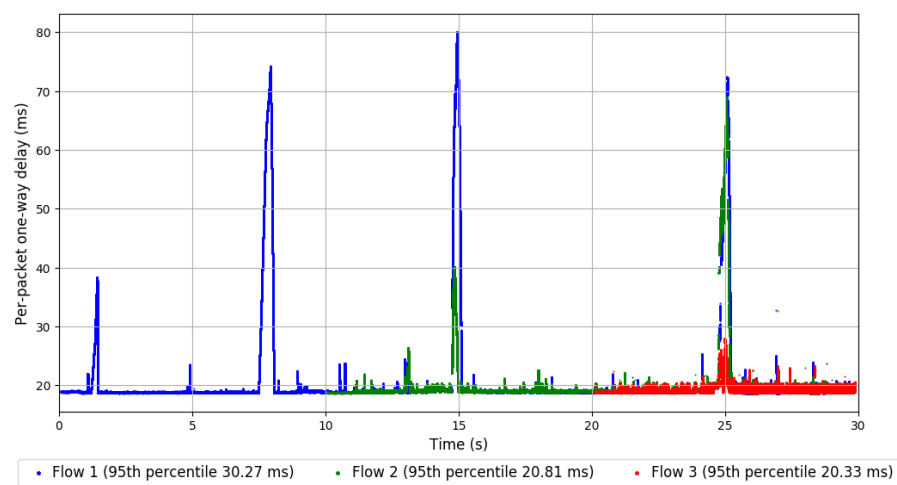
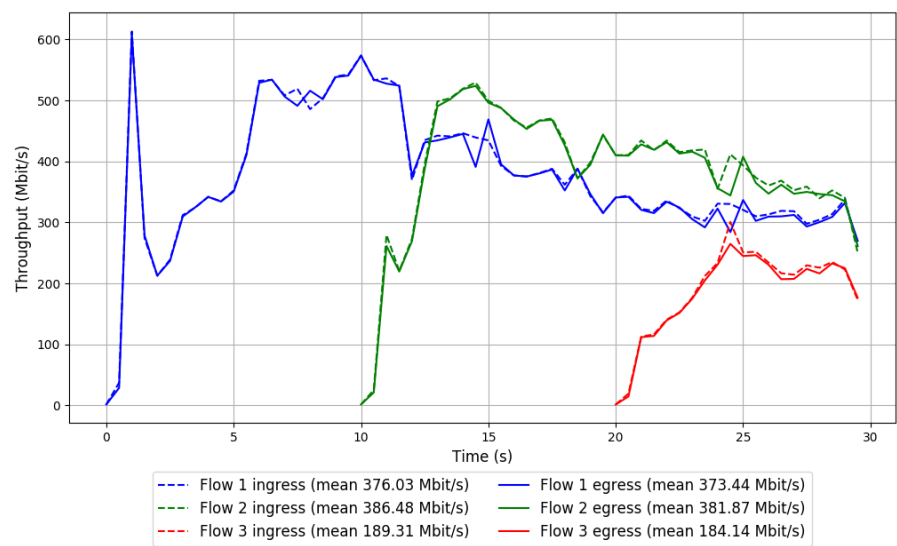
-- Flow 3:

Average throughput: 184.14 Mbit/s

95th percentile per-packet one-way delay: 20.334 ms

Loss rate: 2.73%

Run 2: Report of Vivace-loss — Data Link



Run 3: Statistics of Vivace-loss

Start at: 2018-02-28 06:05:34

End at: 2018-02-28 06:06:04

Local clock offset: 1.076 ms

Remote clock offset: 0.372 ms

Below is generated by plot.py at 2018-02-28 14:18:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 671.90 Mbit/s

95th percentile per-packet one-way delay: 23.071 ms

Loss rate: 0.68%

-- Flow 1:

Average throughput: 377.26 Mbit/s

95th percentile per-packet one-way delay: 24.943 ms

Loss rate: 0.50%

-- Flow 2:

Average throughput: 355.92 Mbit/s

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

Loss rate: 0.77%

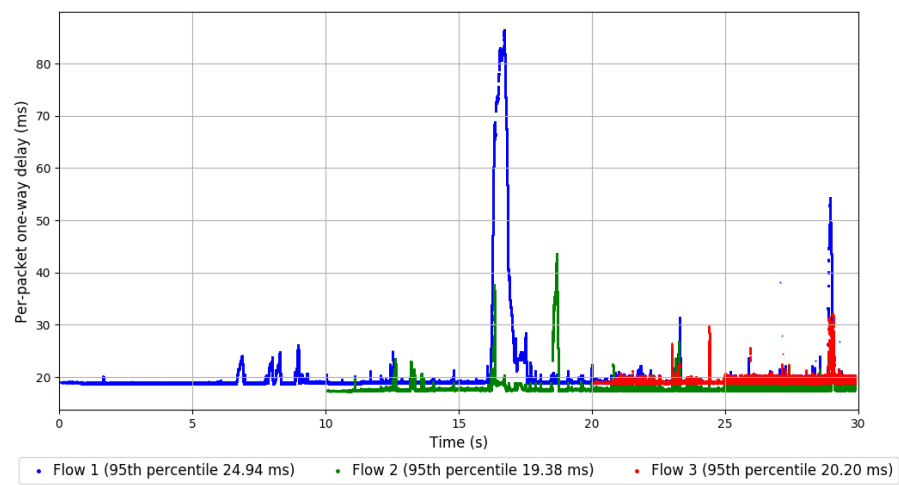
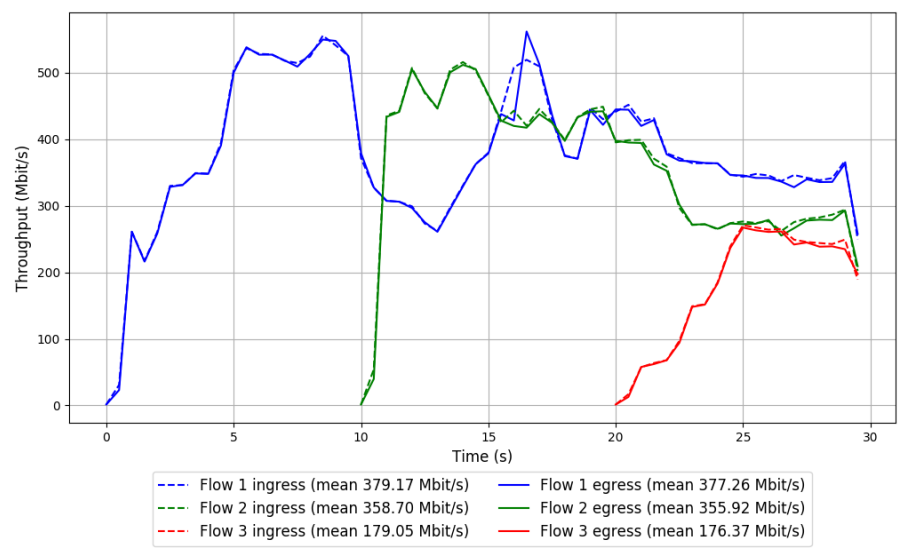
-- Flow 3:

Average throughput: 176.37 Mbit/s

95th percentile per-packet one-way delay: 20.203 ms

Loss rate: 1.49%

Run 3: Report of Vivace-loss — Data Link



Run 4: Statistics of Vivace-loss

Start at: 2018-02-28 06:34:42

End at: 2018-02-28 06:35:12

Local clock offset: -0.113 ms

Remote clock offset: 0.163 ms

Below is generated by plot.py at 2018-02-28 14:19:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 664.85 Mbit/s

95th percentile per-packet one-way delay: 39.457 ms

Loss rate: 1.52%

-- Flow 1:

Average throughput: 371.24 Mbit/s

95th percentile per-packet one-way delay: 25.314 ms

Loss rate: 0.88%

-- Flow 2:

Average throughput: 334.40 Mbit/s

95th percentile per-packet one-way delay: 122.243 ms

Loss rate: 2.09%

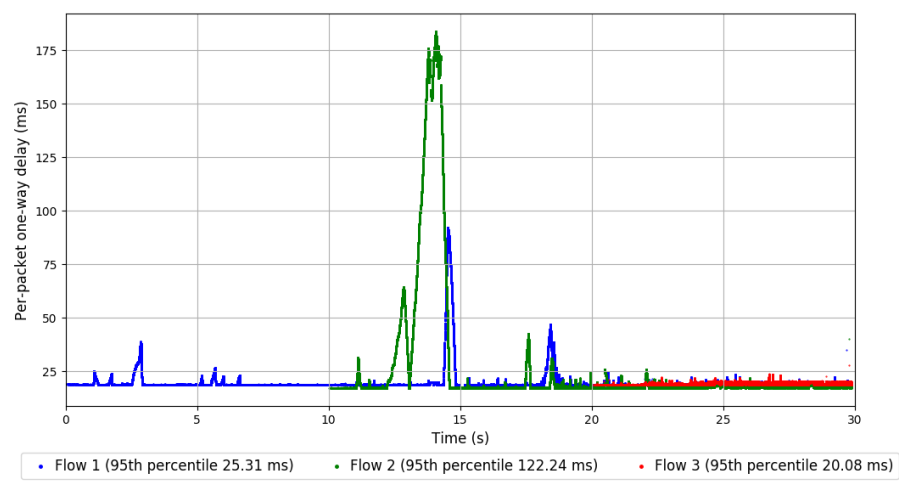
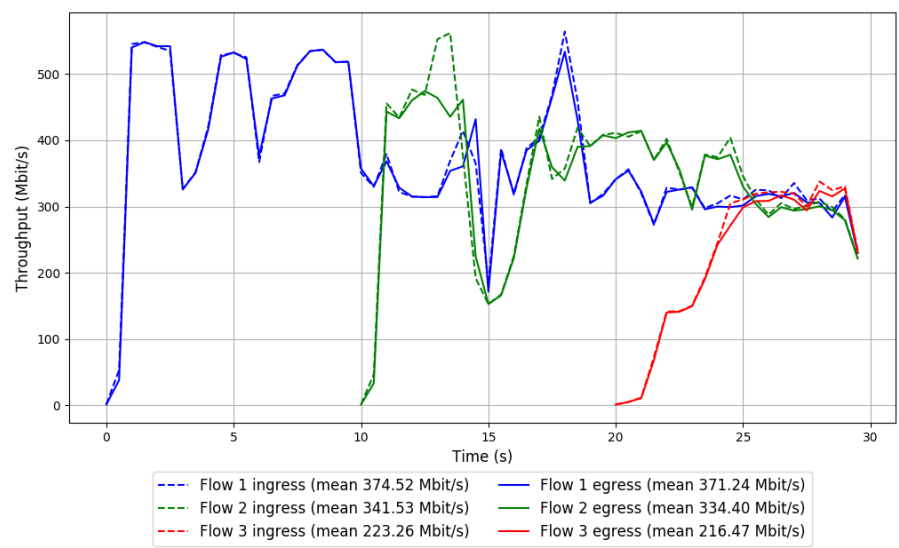
-- Flow 3:

Average throughput: 216.47 Mbit/s

95th percentile per-packet one-way delay: 20.077 ms

Loss rate: 3.04%

Run 4: Report of Vivace-loss — Data Link



Run 5: Statistics of Vivace-loss

Start at: 2018-02-28 07:03:39

End at: 2018-02-28 07:04:09

Local clock offset: 0.161 ms

Remote clock offset: 0.401 ms

Below is generated by plot.py at 2018-02-28 14:20:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 670.17 Mbit/s

95th percentile per-packet one-way delay: 50.756 ms

Loss rate: 0.86%

-- Flow 1:

Average throughput: 420.29 Mbit/s

95th percentile per-packet one-way delay: 64.755 ms

Loss rate: 0.87%

-- Flow 2:

Average throughput: 254.34 Mbit/s

95th percentile per-packet one-way delay: 30.823 ms

Loss rate: 0.69%

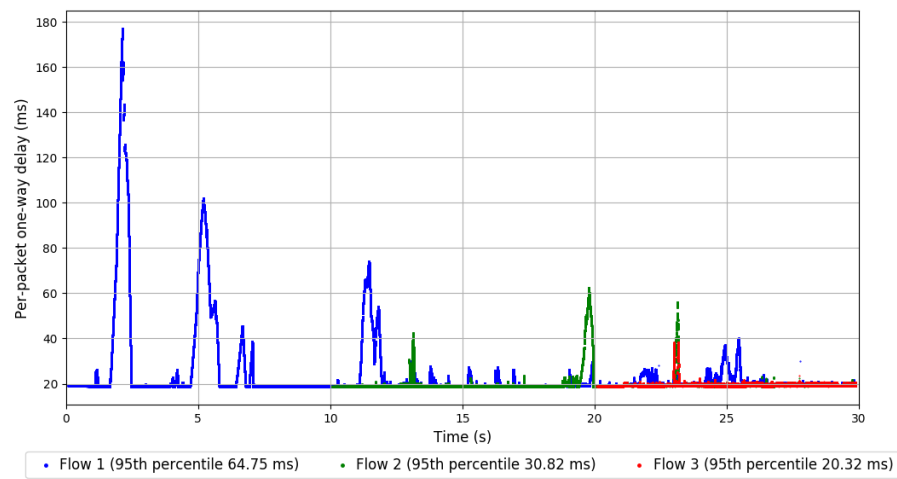
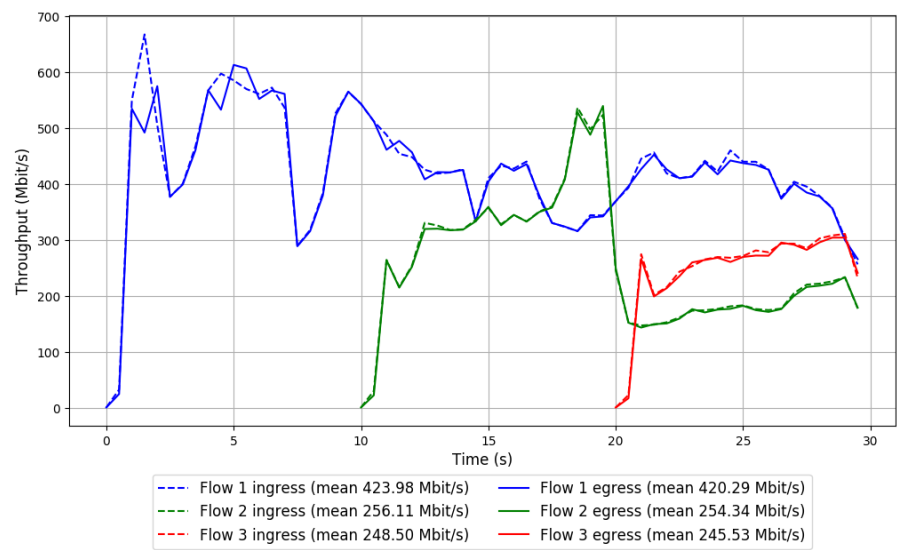
-- Flow 3:

Average throughput: 245.53 Mbit/s

95th percentile per-packet one-way delay: 20.319 ms

Loss rate: 1.19%

Run 5: Report of Vivace-loss — Data Link



Run 6: Statistics of Vivace-loss

Start at: 2018-02-28 07:33:03

End at: 2018-02-28 07:33:33

Local clock offset: 1.05 ms

Remote clock offset: 0.657 ms

Below is generated by plot.py at 2018-02-28 14:21:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 674.23 Mbit/s

95th percentile per-packet one-way delay: 27.891 ms

Loss rate: 0.96%

-- Flow 1:

Average throughput: 385.63 Mbit/s

95th percentile per-packet one-way delay: 34.968 ms

Loss rate: 0.63%

-- Flow 2:

Average throughput: 337.87 Mbit/s

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

Loss rate: 1.08%

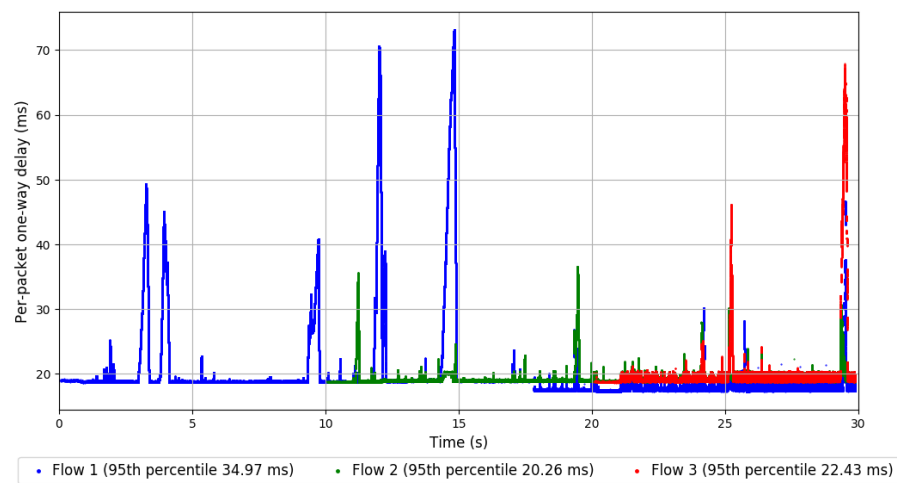
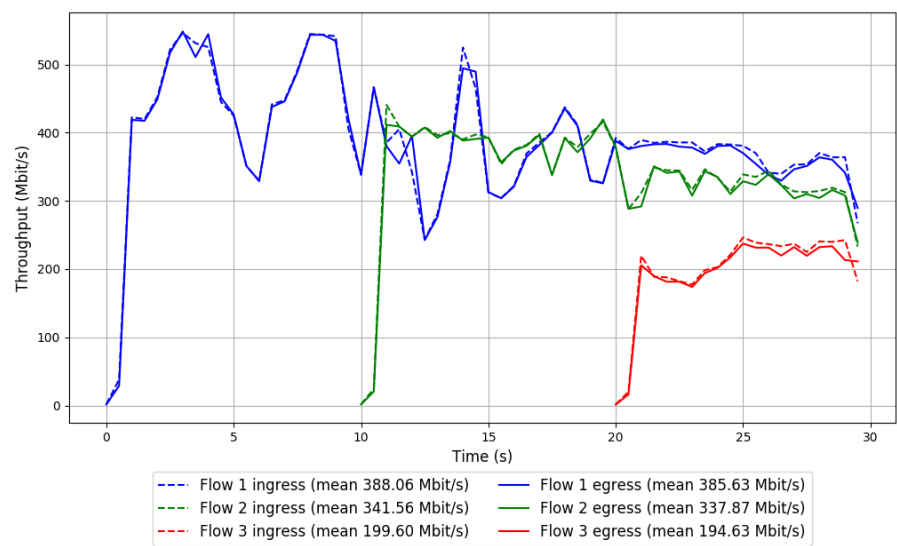
-- Flow 3:

Average throughput: 194.63 Mbit/s

95th percentile per-packet one-way delay: 22.432 ms

Loss rate: 2.50%

Run 6: Report of Vivace-loss — Data Link



Run 7: Statistics of Vivace-loss

Start at: 2018-02-28 08:01:51

End at: 2018-02-28 08:02:21

Local clock offset: 1.032 ms

Remote clock offset: 3.024 ms

Below is generated by plot.py at 2018-02-28 14:22:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 681.06 Mbit/s

95th percentile per-packet one-way delay: 66.020 ms

Loss rate: 1.29%

-- Flow 1:

Average throughput: 364.00 Mbit/s

95th percentile per-packet one-way delay: 18.641 ms

Loss rate: 0.42%

-- Flow 2:

Average throughput: 365.38 Mbit/s

95th percentile per-packet one-way delay: 159.843 ms

Loss rate: 2.52%

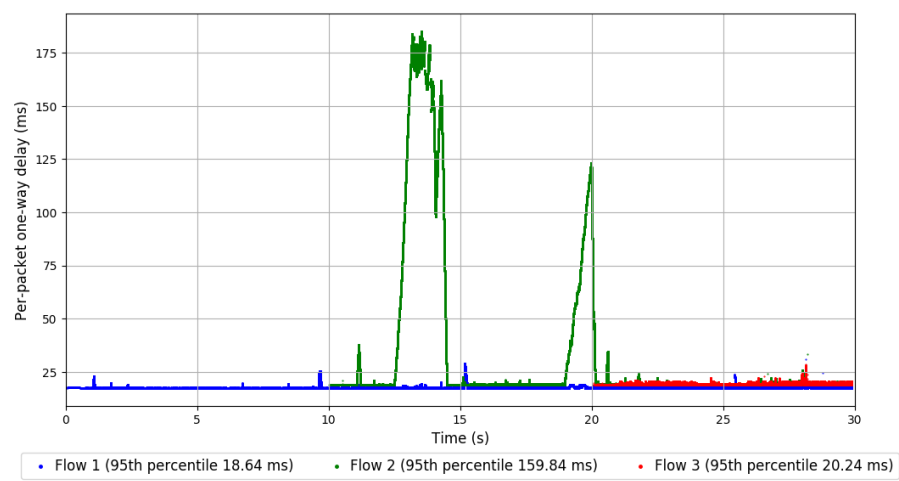
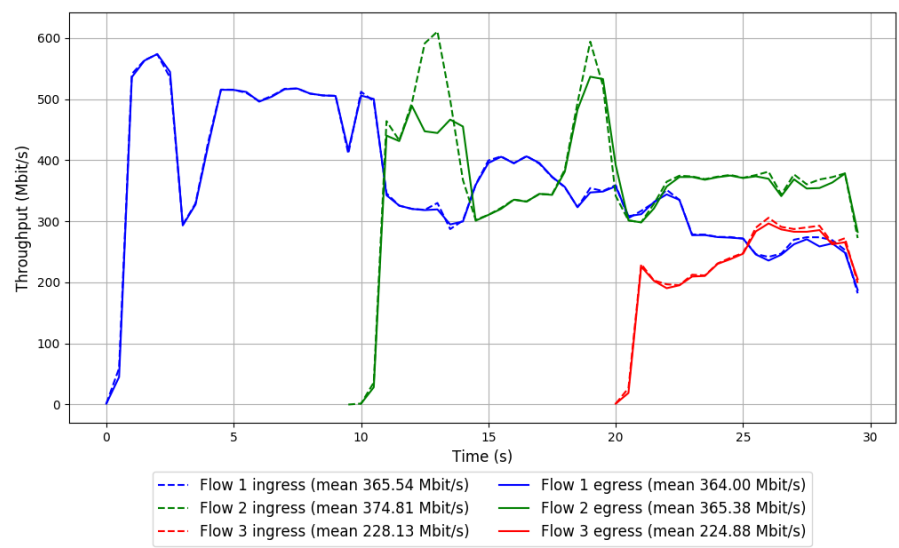
-- Flow 3:

Average throughput: 224.88 Mbit/s

95th percentile per-packet one-way delay: 20.242 ms

Loss rate: 1.51%

Run 7: Report of Vivace-loss — Data Link



Run 8: Statistics of Vivace-loss

Start at: 2018-02-28 08:30:44

End at: 2018-02-28 08:31:14

Local clock offset: 0.836 ms

Remote clock offset: -0.28 ms

Below is generated by plot.py at 2018-02-28 14:22:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 652.76 Mbit/s

95th percentile per-packet one-way delay: 143.686 ms

Loss rate: 3.59%

-- Flow 1:

Average throughput: 364.51 Mbit/s

95th percentile per-packet one-way delay: 150.225 ms

Loss rate: 5.20%

-- Flow 2:

Average throughput: 323.62 Mbit/s

95th percentile per-packet one-way delay: 20.213 ms

Loss rate: 1.08%

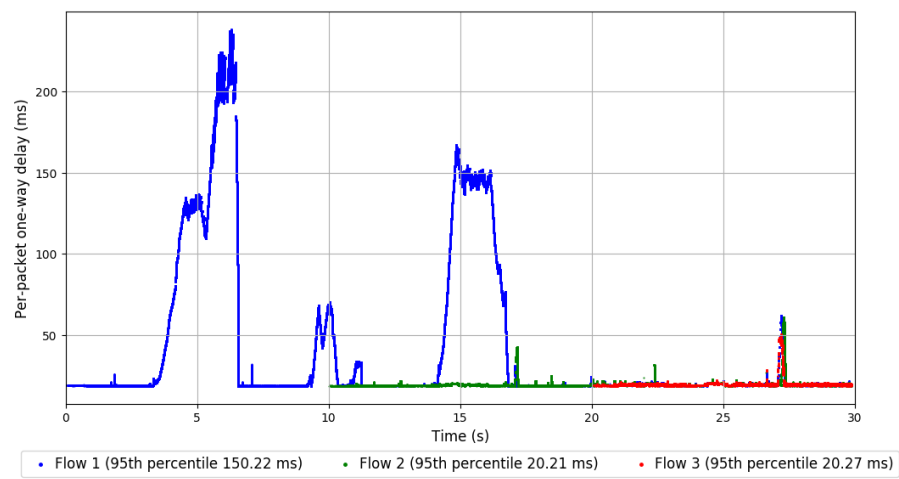
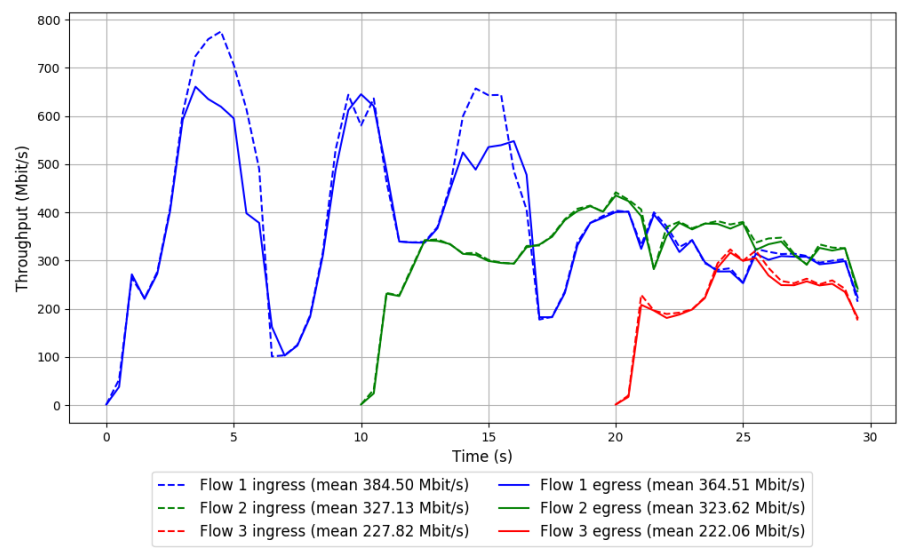
-- Flow 3:

Average throughput: 222.06 Mbit/s

95th percentile per-packet one-way delay: 20.265 ms

Loss rate: 2.55%

Run 8: Report of Vivace-loss — Data Link



Run 9: Statistics of Vivace-loss

Start at: 2018-02-28 08:59:40

End at: 2018-02-28 09:00:10

Local clock offset: 0.821 ms

Remote clock offset: 0.952 ms

Below is generated by plot.py at 2018-02-28 14:25:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 668.77 Mbit/s

95th percentile per-packet one-way delay: 33.697 ms

Loss rate: 0.84%

-- Flow 1:

Average throughput: 375.70 Mbit/s

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

Loss rate: 0.56%

-- Flow 2:

Average throughput: 314.64 Mbit/s

95th percentile per-packet one-way delay: 50.192 ms

Loss rate: 0.99%

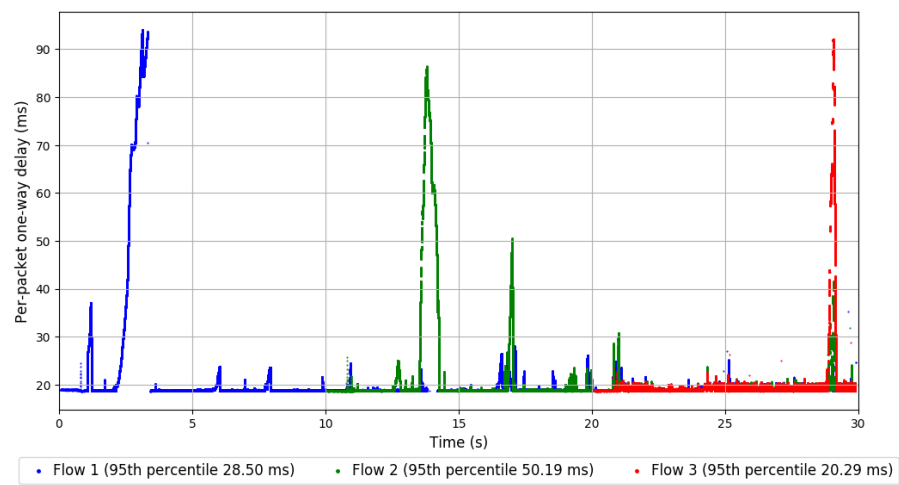
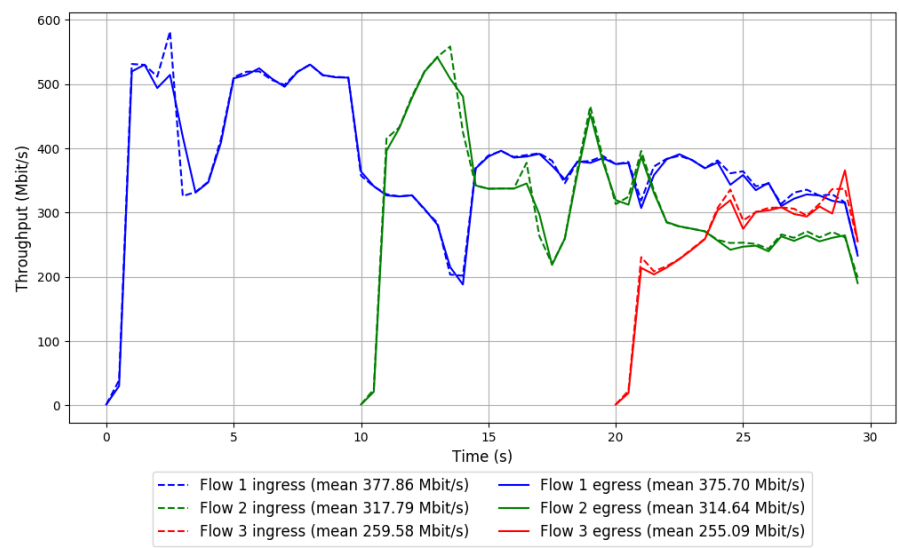
-- Flow 3:

Average throughput: 255.09 Mbit/s

95th percentile per-packet one-way delay: 20.293 ms

Loss rate: 1.74%

Run 9: Report of Vivace-loss — Data Link



Run 10: Statistics of Vivace-loss

Start at: 2018-02-28 09:32:26

End at: 2018-02-28 09:32:56

Local clock offset: 6.342 ms

Remote clock offset: 0.032 ms

Below is generated by plot.py at 2018-02-28 14:27:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 685.42 Mbit/s

95th percentile per-packet one-way delay: 42.820 ms

Loss rate: 0.93%

-- Flow 1:

Average throughput: 384.20 Mbit/s

95th percentile per-packet one-way delay: 59.366 ms

Loss rate: 0.54%

-- Flow 2:

Average throughput: 353.07 Mbit/s

95th percentile per-packet one-way delay: 17.076 ms

Loss rate: 1.27%

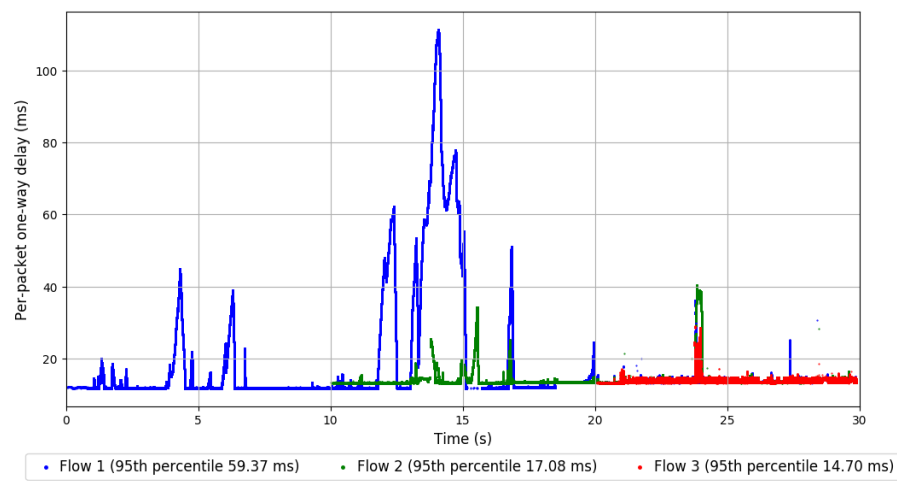
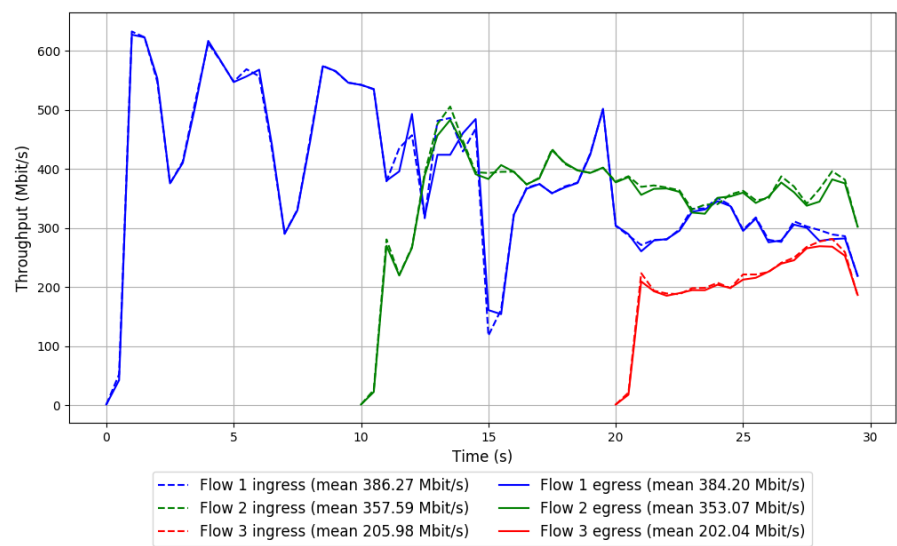
-- Flow 3:

Average throughput: 202.04 Mbit/s

95th percentile per-packet one-way delay: 14.700 ms

Loss rate: 1.93%

Run 10: Report of Vivace-loss — Data Link

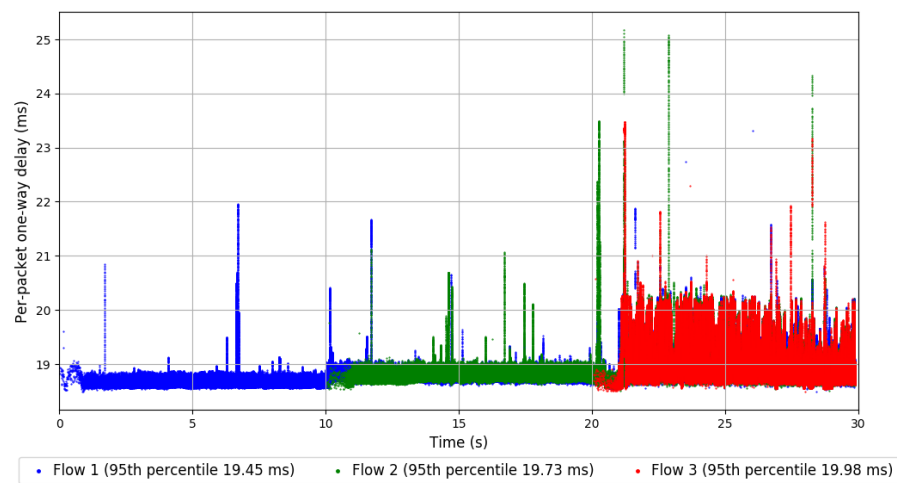
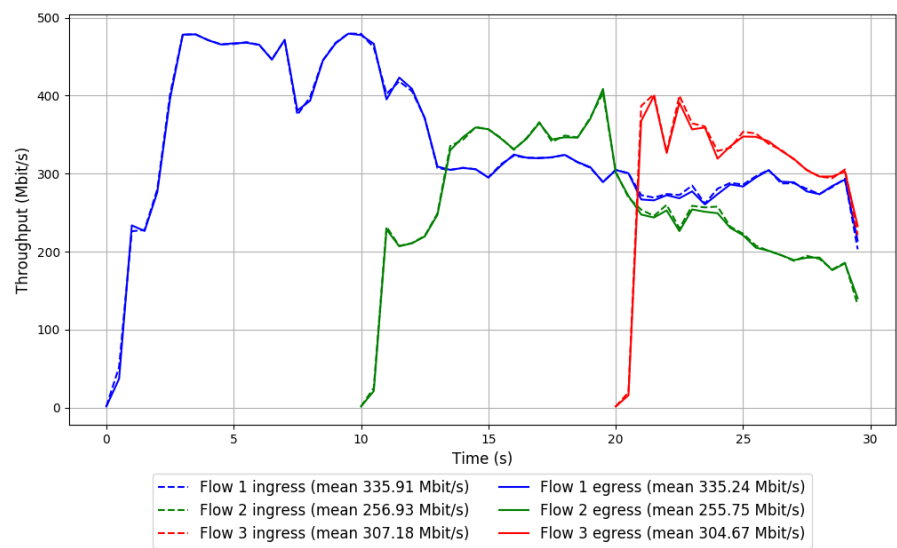


Run 1: Statistics of Vivace-LTE

Start at: 2018-02-28 04:52:44
End at: 2018-02-28 04:53:14
Local clock offset: 1.617 ms
Remote clock offset: -4.756 ms

Below is generated by plot.py at 2018-02-28 14:27:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 605.54 Mbit/s
95th percentile per-packet one-way delay: 19.720 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 335.24 Mbit/s
95th percentile per-packet one-way delay: 19.455 ms
Loss rate: 0.20%
-- Flow 2:
Average throughput: 255.75 Mbit/s
95th percentile per-packet one-way delay: 19.729 ms
Loss rate: 0.46%
-- Flow 3:
Average throughput: 304.67 Mbit/s
95th percentile per-packet one-way delay: 19.981 ms
Loss rate: 0.82%

Run 1: Report of Vivace-LTE — Data Link

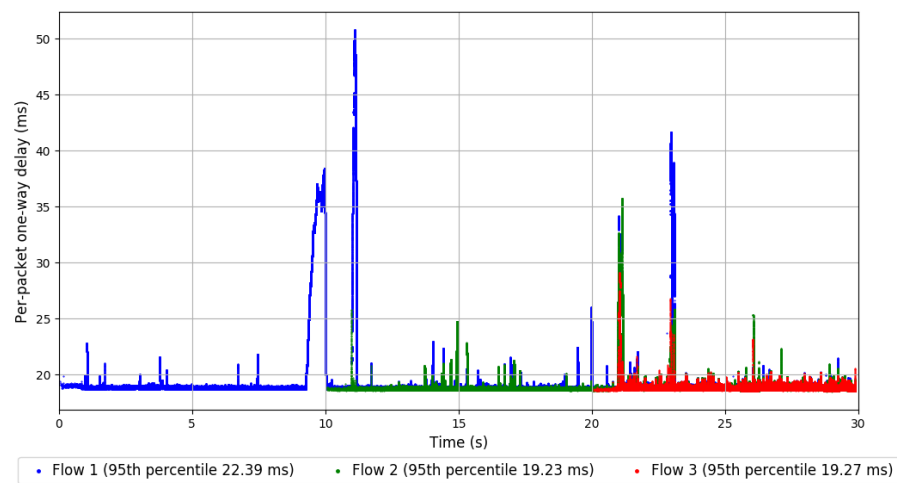
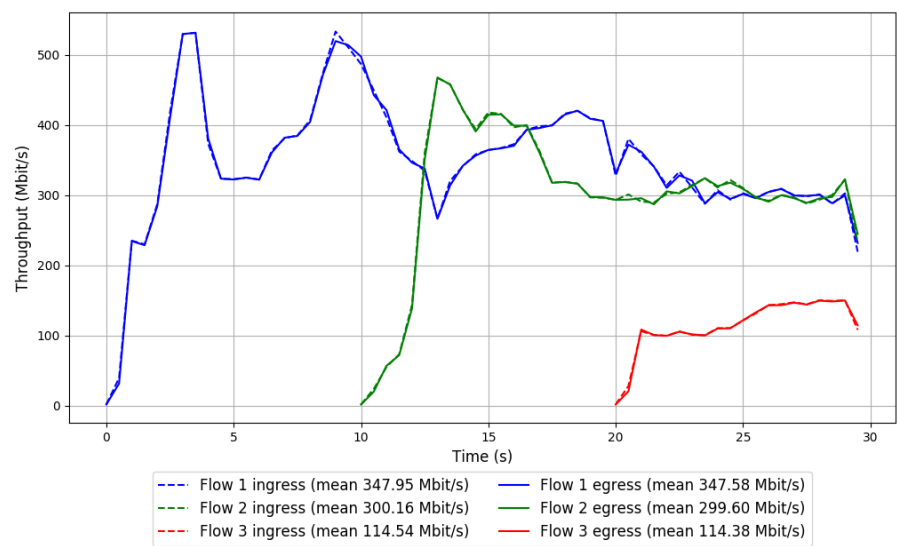


Run 2: Statistics of Vivace-LTE

Start at: 2018-02-28 05:21:23
End at: 2018-02-28 05:21:53
Local clock offset: 1.328 ms
Remote clock offset: -2.664 ms

Below is generated by plot.py at 2018-02-28 14:28:27
Datalink statistics
-- Total of 3 flows:
Average throughput: 584.31 Mbit/s
95th percentile per-packet one-way delay: 19.921 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 347.58 Mbit/s
95th percentile per-packet one-way delay: 22.386 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 299.60 Mbit/s
95th percentile per-packet one-way delay: 19.227 ms
Loss rate: 0.20%
-- Flow 3:
Average throughput: 114.38 Mbit/s
95th percentile per-packet one-way delay: 19.274 ms
Loss rate: 0.15%

Run 2: Report of Vivace-LTE — Data Link



Run 3: Statistics of Vivace-LTE

Start at: 2018-02-28 05:50:26

End at: 2018-02-28 05:50:56

Local clock offset: 1.386 ms

Remote clock offset: 2.051 ms

Below is generated by plot.py at 2018-02-28 14:29:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 603.42 Mbit/s

95th percentile per-packet one-way delay: 19.586 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 368.94 Mbit/s

95th percentile per-packet one-way delay: 20.262 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 317.82 Mbit/s

95th percentile per-packet one-way delay: 19.160 ms

Loss rate: 0.04%

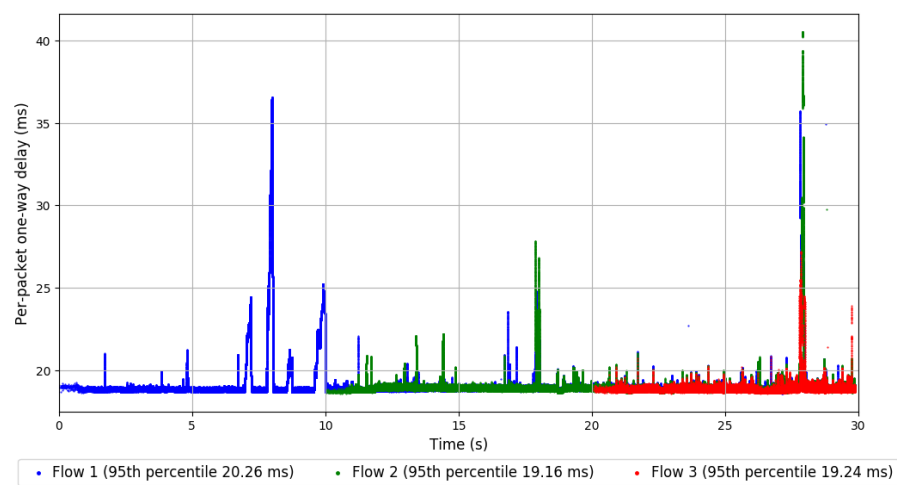
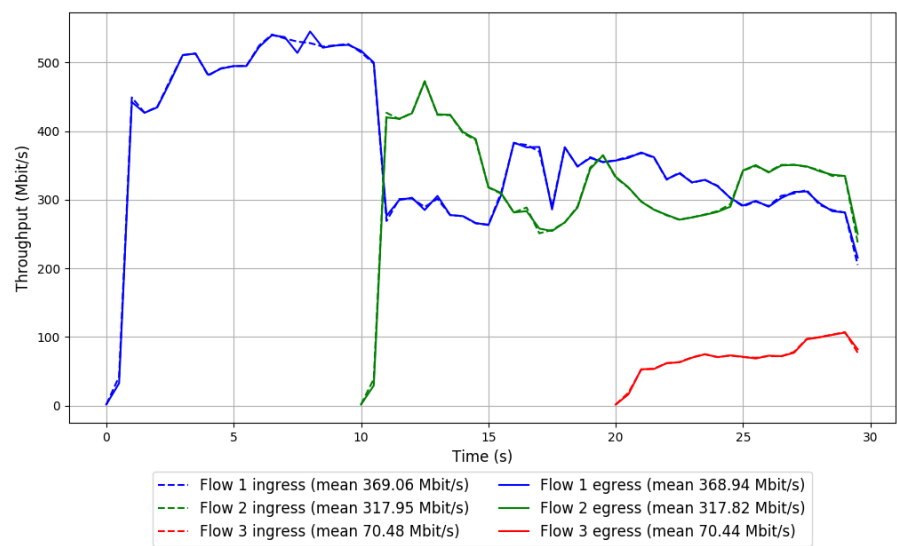
-- Flow 3:

Average throughput: 70.44 Mbit/s

95th percentile per-packet one-way delay: 19.239 ms

Loss rate: 0.07%

Run 3: Report of Vivace-LTE — Data Link



Run 4: Statistics of Vivace-LTE

Start at: 2018-02-28 06:19:45

End at: 2018-02-28 06:20:15

Local clock offset: 1.115 ms

Remote clock offset: 0.474 ms

Below is generated by plot.py at 2018-02-28 14:30:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 602.55 Mbit/s

95th percentile per-packet one-way delay: 20.517 ms

Loss rate: 0.18%

-- Flow 1:

Average throughput: 366.05 Mbit/s

95th percentile per-packet one-way delay: 22.397 ms

Loss rate: 0.12%

-- Flow 2:

Average throughput: 329.80 Mbit/s

95th percentile per-packet one-way delay: 19.622 ms

Loss rate: 0.29%

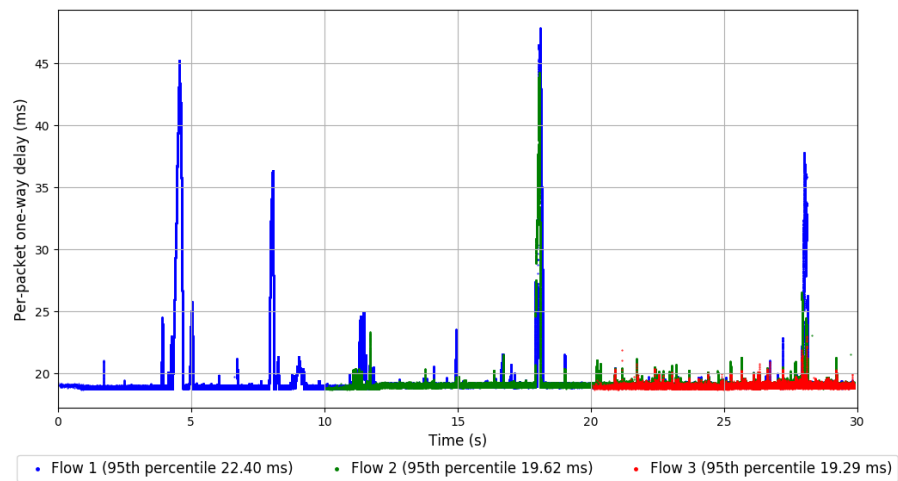
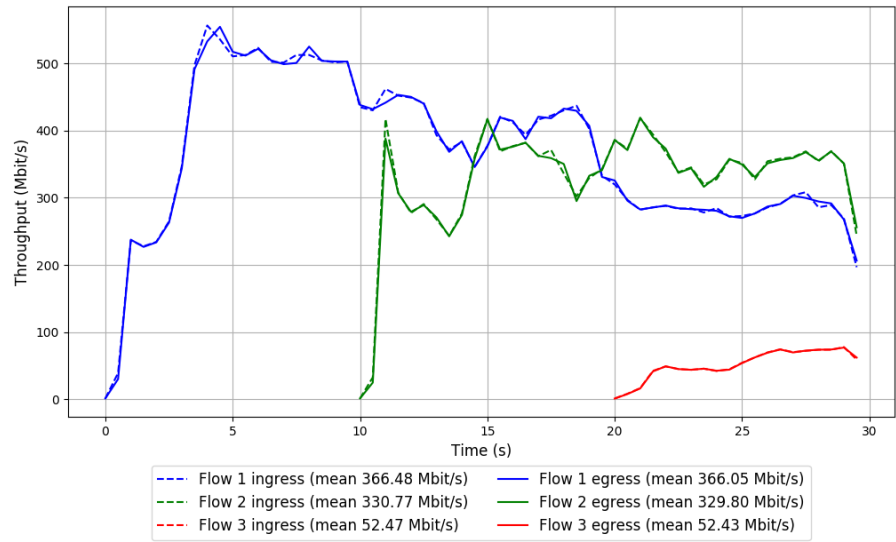
-- Flow 3:

Average throughput: 52.43 Mbit/s

95th percentile per-packet one-way delay: 19.291 ms

Loss rate: 0.06%

Run 4: Report of Vivace-LTE — Data Link



Run 5: Statistics of Vivace-LTE

Start at: 2018-02-28 06:48:50

End at: 2018-02-28 06:49:20

Local clock offset: -0.659 ms

Remote clock offset: 0.189 ms

Below is generated by plot.py at 2018-02-28 14:31:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 594.96 Mbit/s

95th percentile per-packet one-way delay: 19.517 ms

Loss rate: 0.23%

-- Flow 1:

Average throughput: 326.18 Mbit/s

95th percentile per-packet one-way delay: 19.759 ms

Loss rate: 0.17%

-- Flow 2:

Average throughput: 309.73 Mbit/s

95th percentile per-packet one-way delay: 18.464 ms

Loss rate: 0.31%

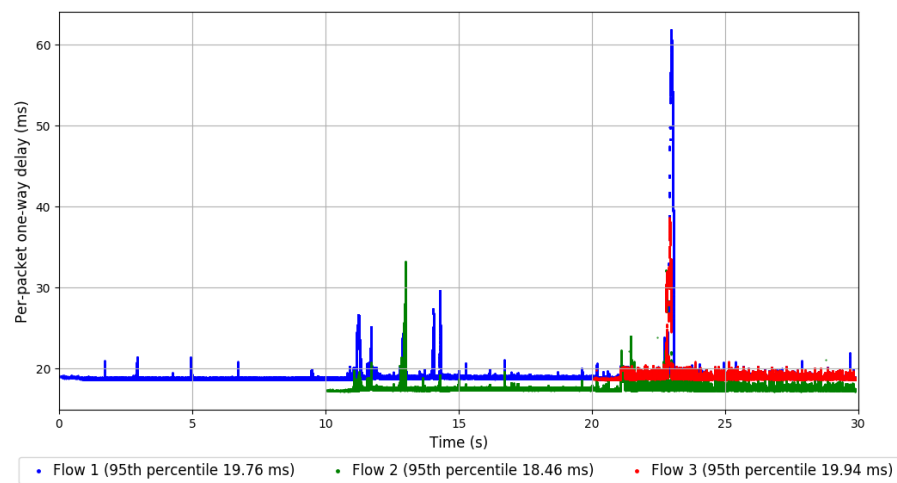
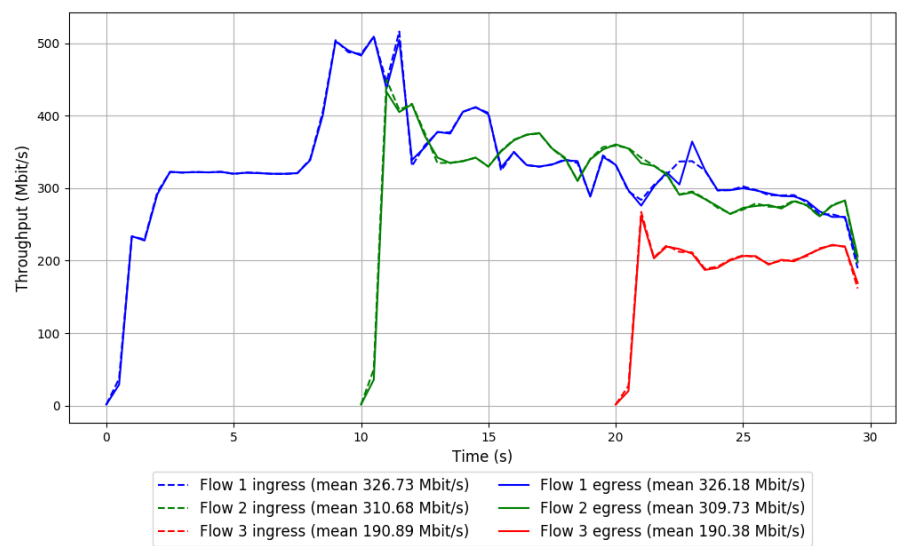
-- Flow 3:

Average throughput: 190.38 Mbit/s

95th percentile per-packet one-way delay: 19.941 ms

Loss rate: 0.27%

Run 5: Report of Vivace-LTE — Data Link



Run 6: Statistics of Vivace-LTE

Start at: 2018-02-28 07:17:48

End at: 2018-02-28 07:18:18

Local clock offset: 1.018 ms

Remote clock offset: 0.421 ms

Below is generated by plot.py at 2018-02-28 14:31:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 672.64 Mbit/s

95th percentile per-packet one-way delay: 20.171 ms

Loss rate: 1.09%

-- Flow 1:

Average throughput: 362.19 Mbit/s

95th percentile per-packet one-way delay: 20.363 ms

Loss rate: 0.65%

-- Flow 2:

Average throughput: 353.77 Mbit/s

95th percentile per-packet one-way delay: 20.130 ms

Loss rate: 1.30%

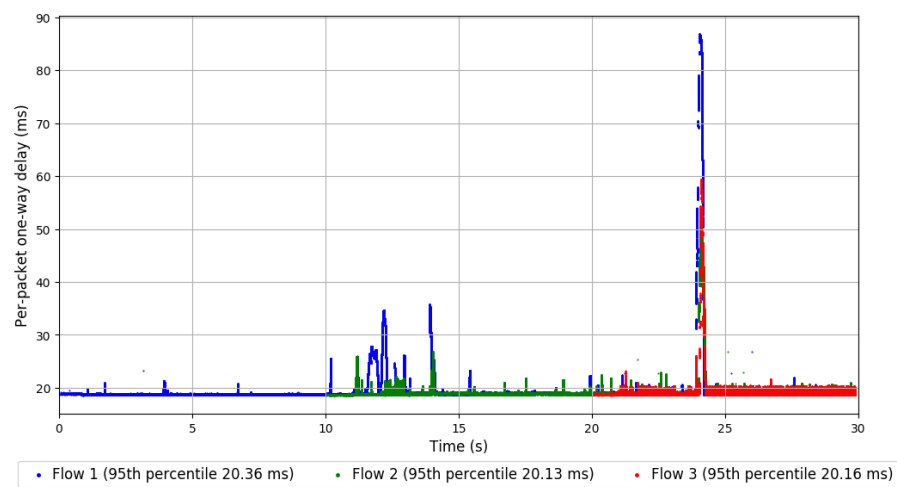
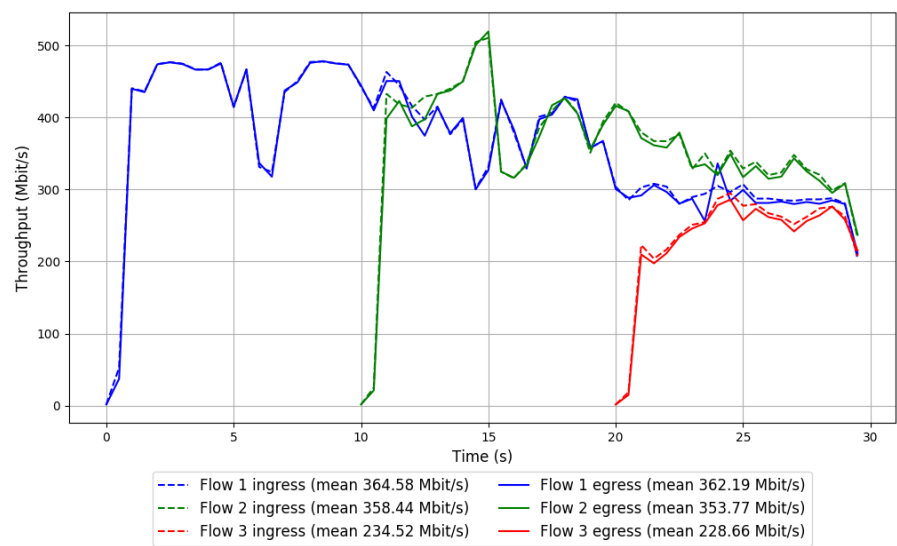
-- Flow 3:

Average throughput: 228.66 Mbit/s

95th percentile per-packet one-way delay: 20.162 ms

Loss rate: 2.49%

Run 6: Report of Vivace-LTE — Data Link



Run 7: Statistics of Vivace-LTE

Start at: 2018-02-28 07:47:09

End at: 2018-02-28 07:47:39

Local clock offset: 1.038 ms

Remote clock offset: 2.188 ms

Below is generated by plot.py at 2018-02-28 14:32:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 591.31 Mbit/s

95th percentile per-packet one-way delay: 19.276 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 348.71 Mbit/s

95th percentile per-packet one-way delay: 19.872 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 329.21 Mbit/s

95th percentile per-packet one-way delay: 19.055 ms

Loss rate: 0.21%

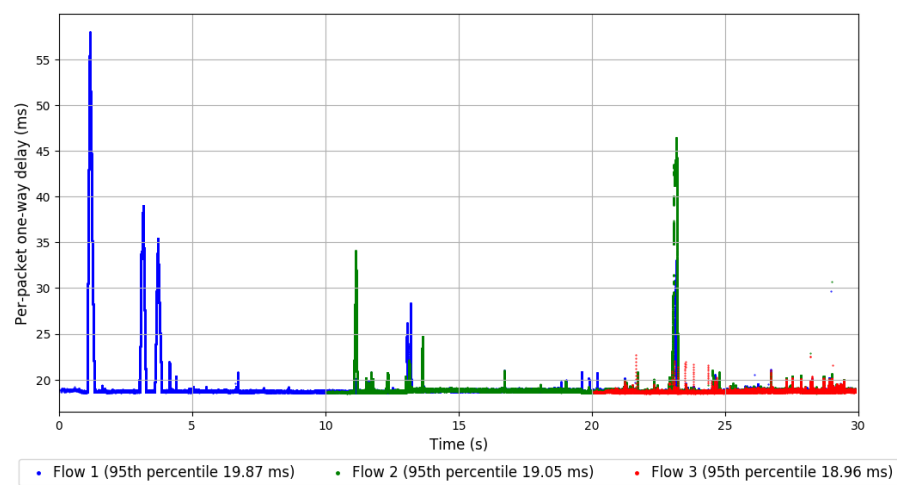
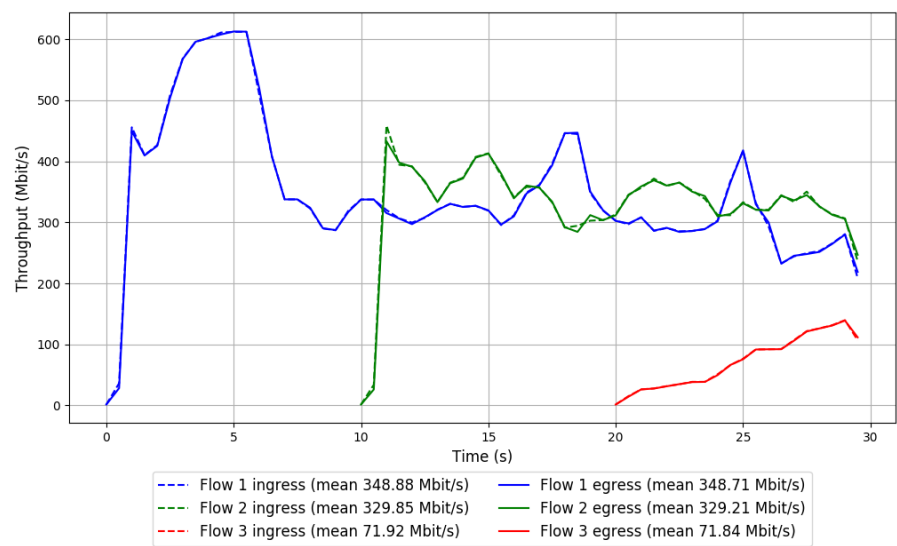
-- Flow 3:

Average throughput: 71.84 Mbit/s

95th percentile per-packet one-way delay: 18.965 ms

Loss rate: 0.13%

Run 7: Report of Vivace-LTE — Data Link



Run 8: Statistics of Vivace-LTE

Start at: 2018-02-28 08:15:56

End at: 2018-02-28 08:16:26

Local clock offset: 0.822 ms

Remote clock offset: 1.131 ms

Below is generated by plot.py at 2018-02-28 14:33:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 647.52 Mbit/s

95th percentile per-packet one-way delay: 19.894 ms

Loss rate: 0.32%

-- Flow 1:

Average throughput: 393.70 Mbit/s

95th percentile per-packet one-way delay: 20.668 ms

Loss rate: 0.24%

-- Flow 2:

Average throughput: 362.82 Mbit/s

95th percentile per-packet one-way delay: 19.772 ms

Loss rate: 0.45%

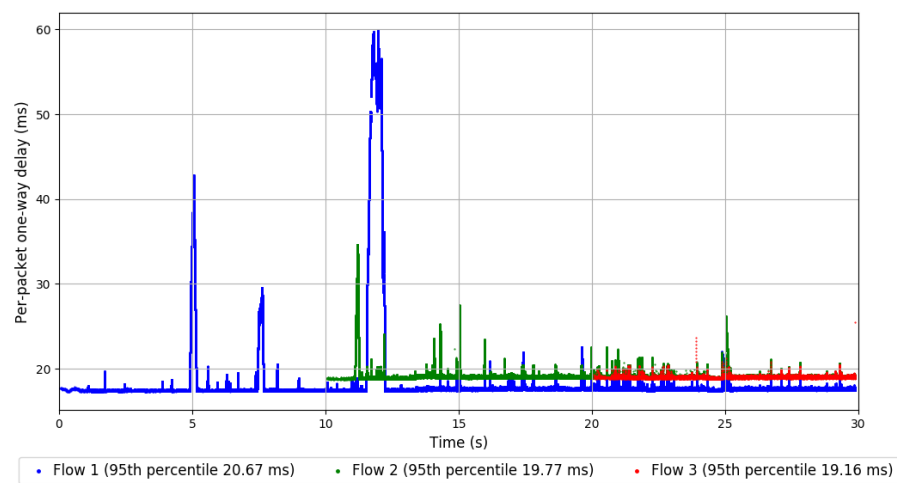
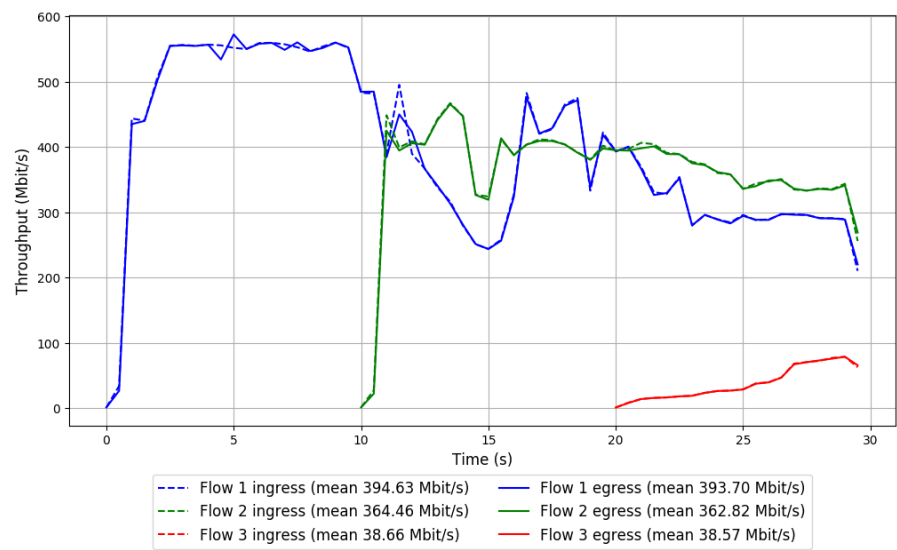
-- Flow 3:

Average throughput: 38.57 Mbit/s

95th percentile per-packet one-way delay: 19.161 ms

Loss rate: 0.16%

Run 8: Report of Vivace-LTE — Data Link

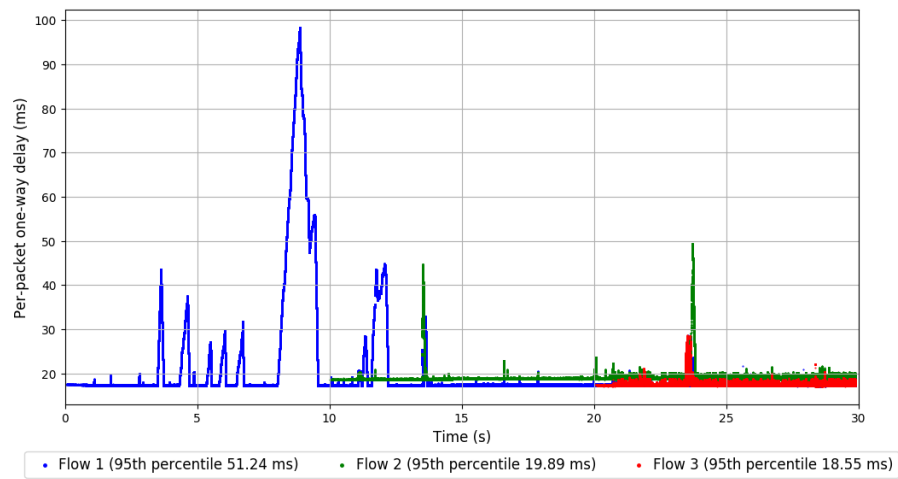
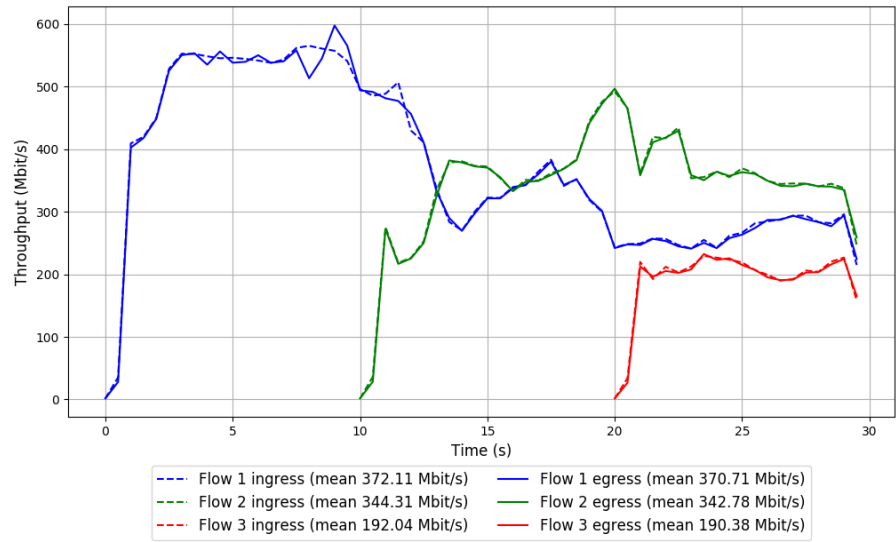


Run 9: Statistics of Vivace-LTE

Start at: 2018-02-28 08:44:47
End at: 2018-02-28 08:45:17
Local clock offset: 0.809 ms
Remote clock offset: -0.257 ms

Below is generated by plot.py at 2018-02-28 14:34:04
Datalink statistics
-- Total of 3 flows:
Average throughput: 661.37 Mbit/s
95th percentile per-packet one-way delay: 36.961 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 370.71 Mbit/s
95th percentile per-packet one-way delay: 51.238 ms
Loss rate: 0.37%
-- Flow 2:
Average throughput: 342.78 Mbit/s
95th percentile per-packet one-way delay: 19.886 ms
Loss rate: 0.44%
-- Flow 3:
Average throughput: 190.38 Mbit/s
95th percentile per-packet one-way delay: 18.545 ms
Loss rate: 0.85%

Run 9: Report of Vivace-LTE — Data Link



Run 10: Statistics of Vivace-LTE

Start at: 2018-02-28 09:13:46

End at: 2018-02-28 09:14:16

Local clock offset: 0.752 ms

Remote clock offset: 1.08 ms

Below is generated by plot.py at 2018-02-28 14:34:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 639.12 Mbit/s

95th percentile per-packet one-way delay: 19.970 ms

Loss rate: 0.15%

-- Flow 1:

Average throughput: 363.60 Mbit/s

95th percentile per-packet one-way delay: 19.989 ms

Loss rate: 0.09%

-- Flow 2:

Average throughput: 318.03 Mbit/s

95th percentile per-packet one-way delay: 19.933 ms

Loss rate: 0.21%

-- Flow 3:

Average throughput: 194.68 Mbit/s

95th percentile per-packet one-way delay: 20.004 ms

Loss rate: 0.32%

Run 10: Report of Vivace-LTE — Data Link

