

Pantheon Report

Generated at 2018-01-10 08:29:43 (UTC).

Data path: AWS California 2 Ethernet (*local*) → Mexico Ethernet (*remote*).

Repeated the test of 14 congestion control schemes 10 times.

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

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

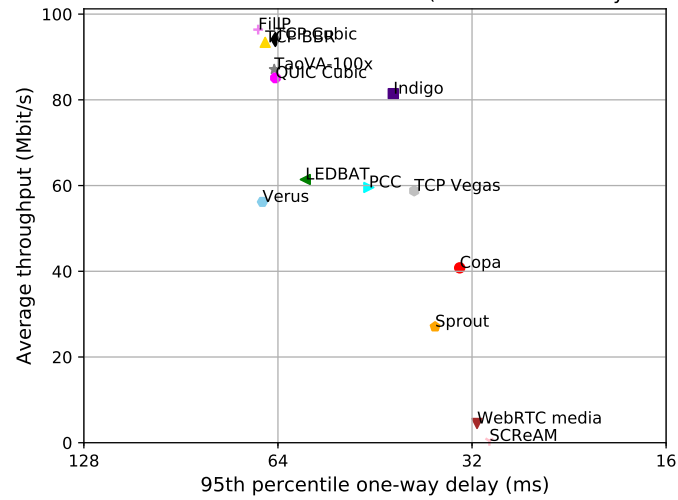
Tested BBR with qdisc of Fair Queuing (*fq*), and other schemes with the default Linux qdisc (*pfifo_fast*).

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

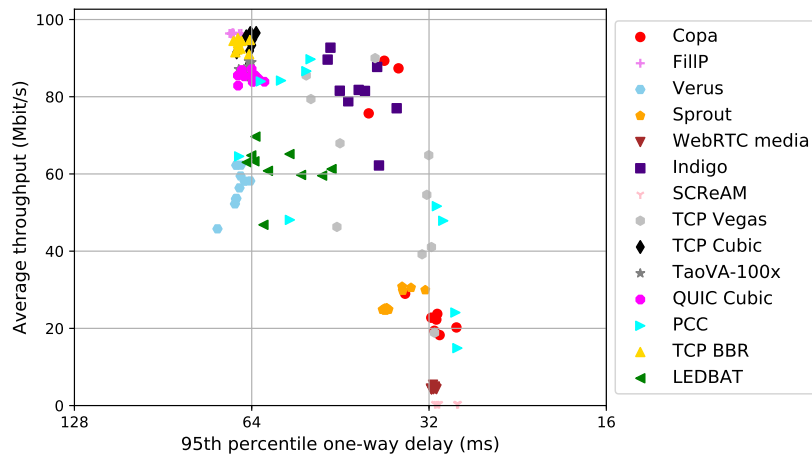
Git summary:

```
branch: master @ 56d1792c316a5efca3f2d21342905405fedffb48
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ ec9585325218d5048c4d4152fa42240af54c6e67
third_party/genericCC @ 80b516c448f795fd6e9675f7177b69c622f07da8
third_party/indigo @ b19f3730105f9aa95452552af924e3719b03cc55
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 @ f1a14bffe749737437f61b1eaaeb30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
  M src/examples/cellsim.cc
  M src/examples/sproutbt2.cc
  M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/webrtc @ a488197ddd041ace68a42849b2540ad834825f42
```

test from AWS California 2 Ethernet to Mexico 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 2 Ethernet to Mexico 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	80.89	7.22	25.18	66.79	67.24	67.04	22.94	31.29	28.12
TCP Cubic	10	66.84	25.09	31.89	64.18	64.85	64.04	0.61	0.71	0.61
LEDBAT	10	37.21	26.96	19.21	56.07	58.70	60.03	0.16	0.29	0.33
PCC	10	38.60	19.79	23.67	44.83	47.22	48.52	1.53	2.12	4.31
QUIC Cubic	10	56.54	32.65	20.80	64.32	64.70	65.29	1.57	1.72	1.23
SCReAM	10	0.22	0.21	0.22	30.02	29.74	29.66	0.04	0.03	0.05
WebRTC media	10	2.41	1.52	0.57	31.14	31.23	31.71	0.10	0.10	0.06
Sprout	10	13.61	13.61	13.34	36.37	36.46	36.95	0.03	0.09	0.01
TaoVA-100x	10	54.01	39.11	28.19	62.30	65.66	66.79	13.72	25.29	18.42
TCP Vegas	10	31.51	29.55	26.37	611.51	38.27	36.26	0.12	0.11	0.13
Verus	10	33.74	27.14	15.58	67.73	66.51	66.11	43.32	38.37	34.93
Copa	10	25.49	17.18	15.09	33.48	32.91	34.13	0.11	0.17	0.23
FillP	10	56.27	37.06	47.01	68.66	68.65	68.79	29.29	34.84	38.92
Indigo	9	48.37	35.05	29.70	39.83	43.44	47.95	0.65	0.46	0.58

Run 1: Statistics of TCP BBR

Start at: 2018-01-10 03:22:30

End at: 2018-01-10 03:23:00

Local clock offset: -0.035 ms

Remote clock offset: 1.741 ms

Below is generated by plot.py at 2018-01-10 07:56:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.47 Mbit/s

95th percentile per-packet one-way delay: 68.728 ms

Loss rate: 20.67%

-- Flow 1:

Average throughput: 54.78 Mbit/s

95th percentile per-packet one-way delay: 68.391 ms

Loss rate: 23.96%

-- Flow 2:

Average throughput: 21.17 Mbit/s

95th percentile per-packet one-way delay: 68.560 ms

Loss rate: 17.58%

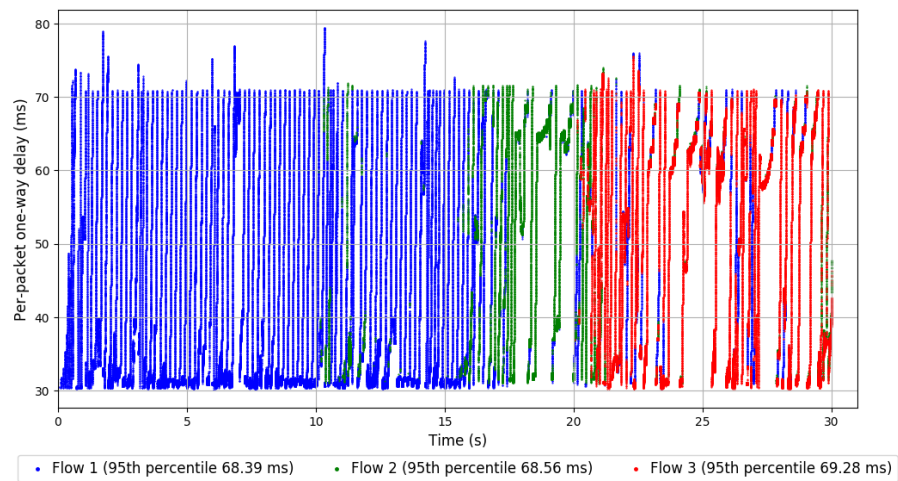
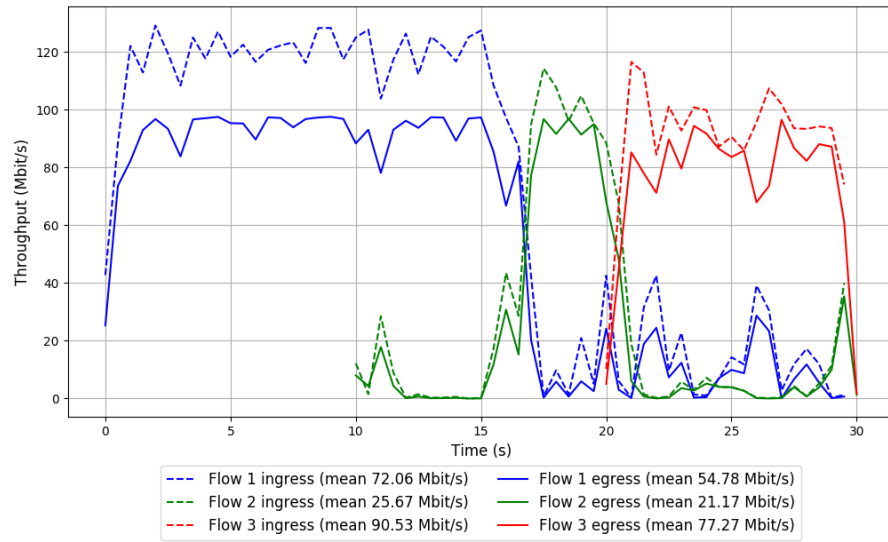
-- Flow 3:

Average throughput: 77.27 Mbit/s

95th percentile per-packet one-way delay: 69.279 ms

Loss rate: 14.56%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-01-10 03:46:19

End at: 2018-01-10 03:46:49

Local clock offset: 0.066 ms

Remote clock offset: 1.775 ms

Below is generated by plot.py at 2018-01-10 07:56:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.44 Mbit/s

95th percentile per-packet one-way delay: 66.616 ms

Loss rate: 25.52%

-- Flow 1:

Average throughput: 63.95 Mbit/s

95th percentile per-packet one-way delay: 66.404 ms

Loss rate: 24.36%

-- Flow 2:

Average throughput: 7.36 Mbit/s

95th percentile per-packet one-way delay: 67.460 ms

Loss rate: 33.46%

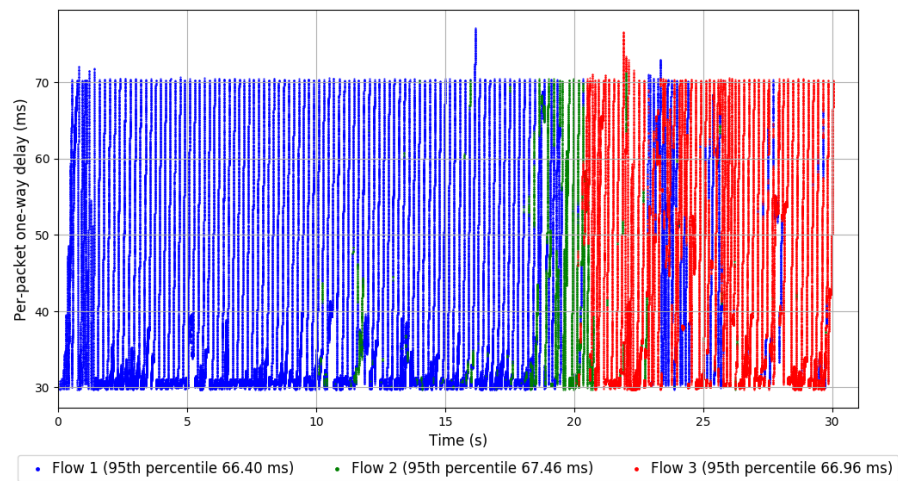
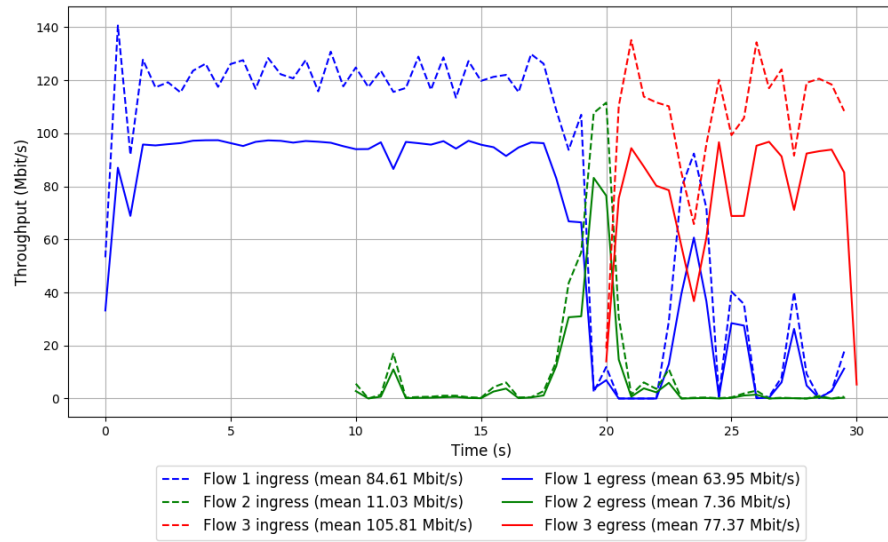
-- Flow 3:

Average throughput: 77.37 Mbit/s

95th percentile per-packet one-way delay: 66.956 ms

Loss rate: 26.68%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-01-10 04:08:35

End at: 2018-01-10 04:09:05

Local clock offset: 0.352 ms

Remote clock offset: 2.476 ms

Below is generated by plot.py at 2018-01-10 07:56:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.19 Mbit/s

95th percentile per-packet one-way delay: 67.554 ms

Loss rate: 23.71%

-- Flow 1:

Average throughput: 86.34 Mbit/s

95th percentile per-packet one-way delay: 67.531 ms

Loss rate: 23.16%

-- Flow 2:

Average throughput: 3.29 Mbit/s

95th percentile per-packet one-way delay: 68.323 ms

Loss rate: 30.32%

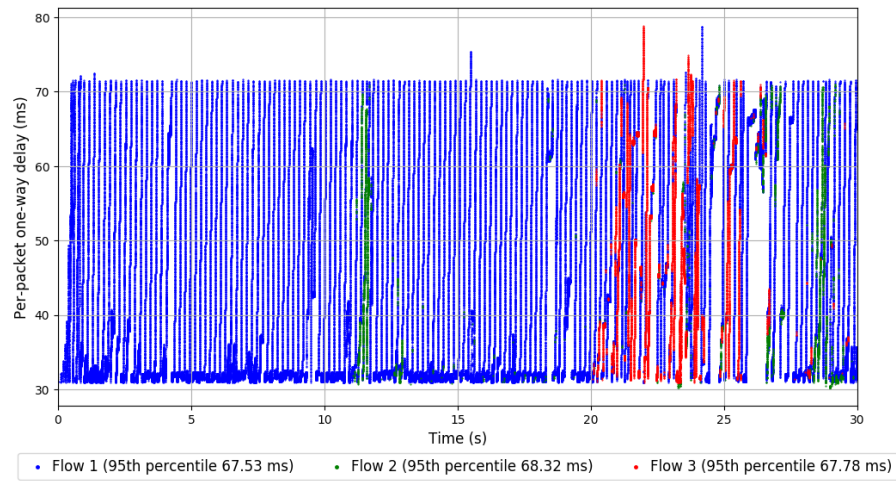
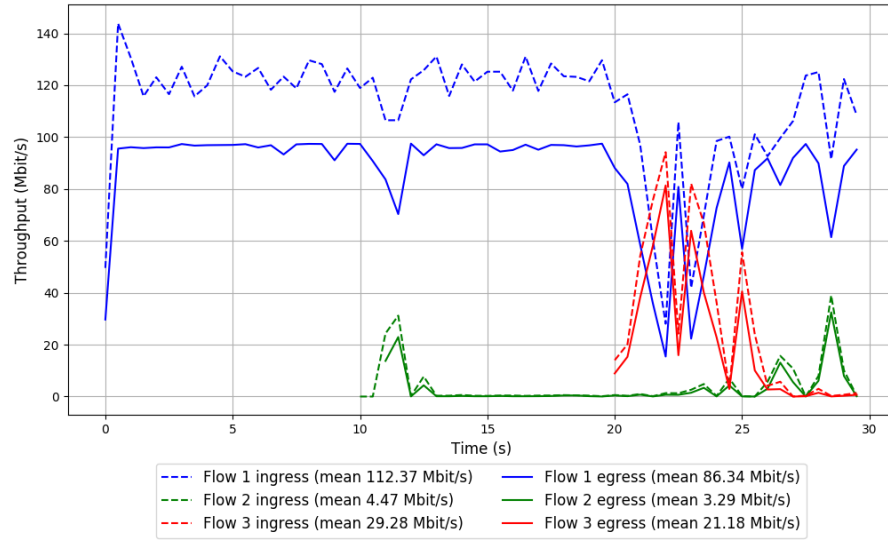
-- Flow 3:

Average throughput: 21.18 Mbit/s

95th percentile per-packet one-way delay: 67.776 ms

Loss rate: 28.13%

Run 3: Report of TCP BBR — Data Link

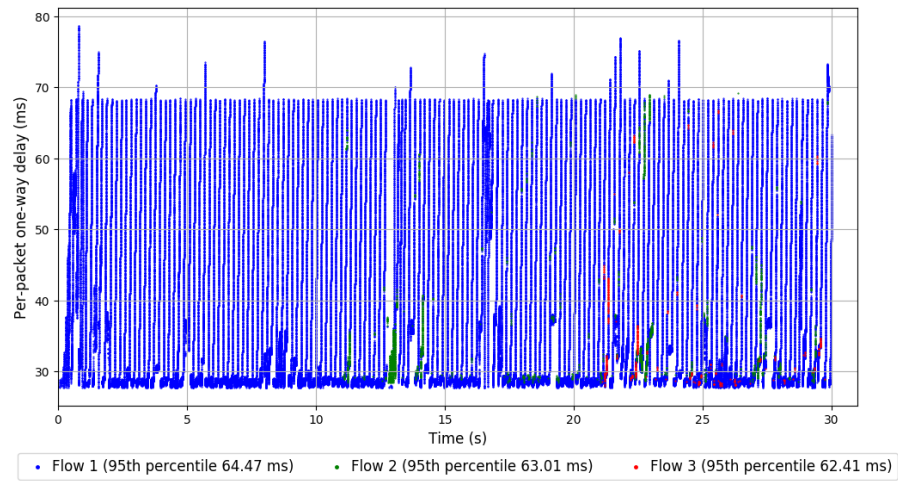
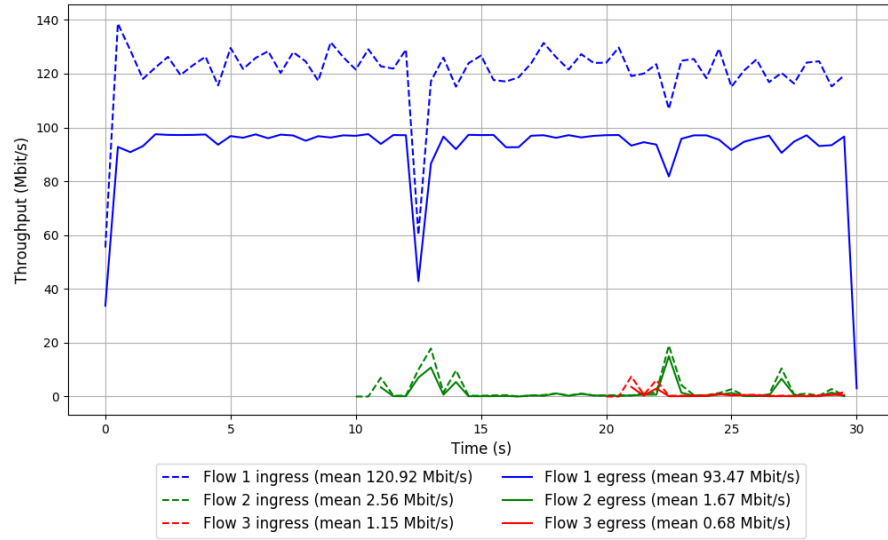


Run 4: Statistics of TCP BBR

Start at: 2018-01-10 04:30:20
End at: 2018-01-10 04:30:50
Local clock offset: 0.511 ms
Remote clock offset: -0.727 ms

Below is generated by plot.py at 2018-01-10 07:56:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 94.71 Mbit/s
95th percentile per-packet one-way delay: 64.465 ms
Loss rate: 22.94%
-- Flow 1:
Average throughput: 93.47 Mbit/s
95th percentile per-packet one-way delay: 64.473 ms
Loss rate: 22.65%
-- Flow 2:
Average throughput: 1.67 Mbit/s
95th percentile per-packet one-way delay: 63.012 ms
Loss rate: 38.28%
-- Flow 3:
Average throughput: 0.68 Mbit/s
95th percentile per-packet one-way delay: 62.410 ms
Loss rate: 47.63%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-01-10 04:51:44

End at: 2018-01-10 04:52:14

Local clock offset: 0.592 ms

Remote clock offset: 0.924 ms

Below is generated by plot.py at 2018-01-10 07:56:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.25 Mbit/s

95th percentile per-packet one-way delay: 67.666 ms

Loss rate: 24.07%

-- Flow 1:

Average throughput: 85.19 Mbit/s

95th percentile per-packet one-way delay: 67.292 ms

Loss rate: 23.40%

-- Flow 2:

Average throughput: 10.22 Mbit/s

95th percentile per-packet one-way delay: 69.426 ms

Loss rate: 31.29%

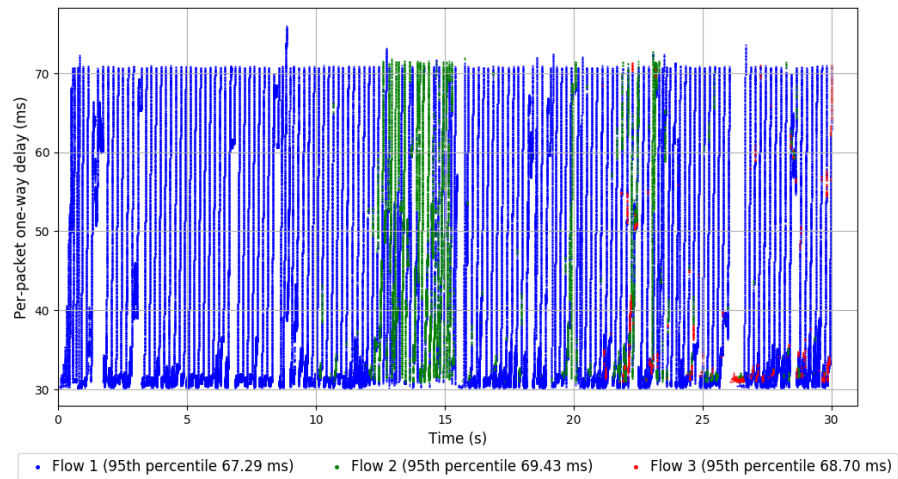
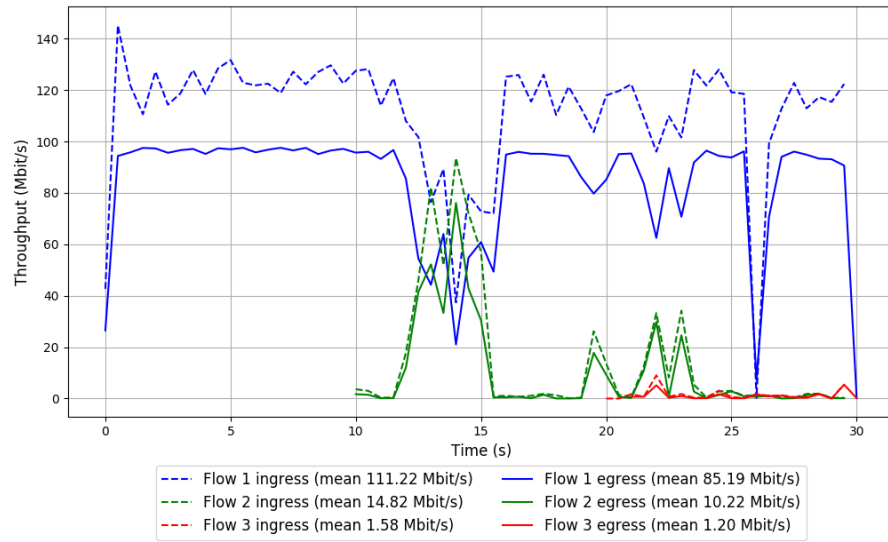
-- Flow 3:

Average throughput: 1.20 Mbit/s

95th percentile per-packet one-way delay: 68.699 ms

Loss rate: 31.62%

Run 5: Report of TCP BBR — Data Link

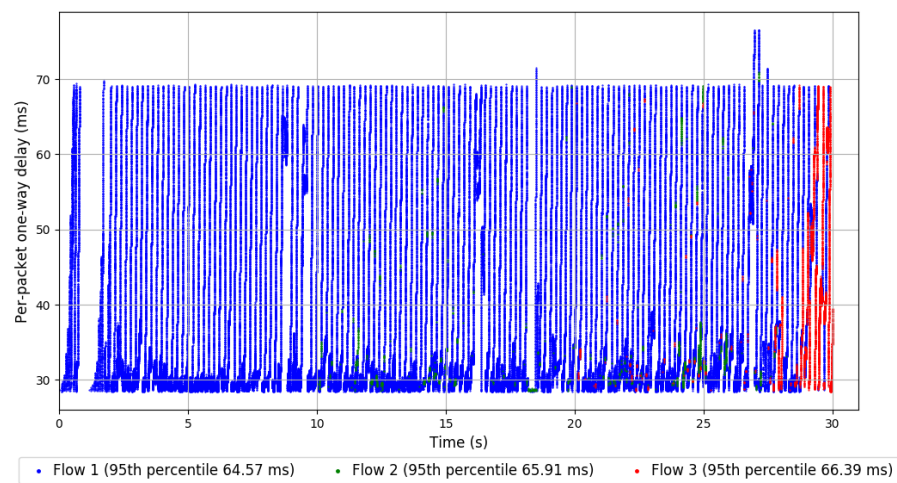
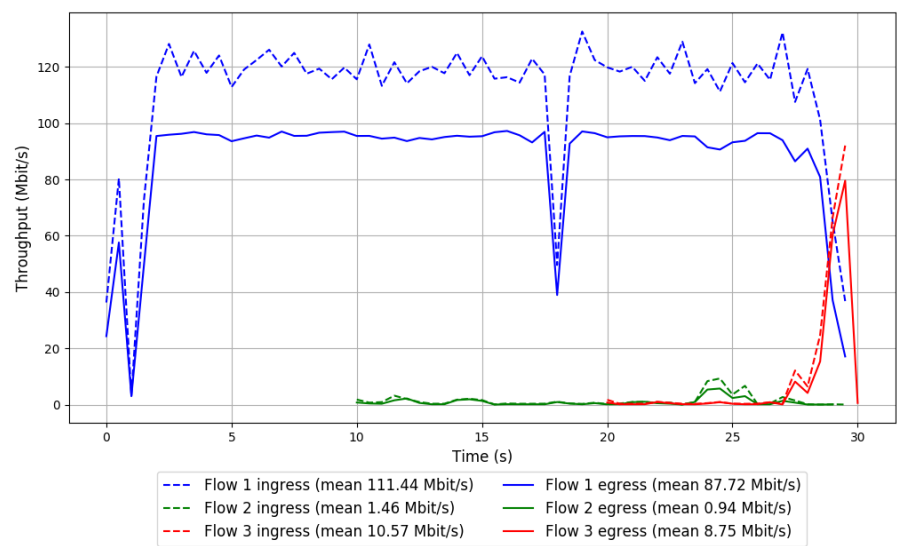


Run 6: Statistics of TCP BBR

Start at: 2018-01-10 05:16:08
End at: 2018-01-10 05:16:38
Local clock offset: 0.522 ms
Remote clock offset: -1.224 ms

Below is generated by plot.py at 2018-01-10 07:56:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 91.04 Mbit/s
95th percentile per-packet one-way delay: 64.647 ms
Loss rate: 21.29%
-- Flow 1:
Average throughput: 87.72 Mbit/s
95th percentile per-packet one-way delay: 64.571 ms
Loss rate: 21.28%
-- Flow 2:
Average throughput: 0.94 Mbit/s
95th percentile per-packet one-way delay: 65.910 ms
Loss rate: 36.88%
-- Flow 3:
Average throughput: 8.75 Mbit/s
95th percentile per-packet one-way delay: 66.393 ms
Loss rate: 17.39%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-01-10 05:43:39

End at: 2018-01-10 05:44:09

Local clock offset: 0.102 ms

Remote clock offset: 0.878 ms

Below is generated by plot.py at 2018-01-10 07:56:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.48 Mbit/s

95th percentile per-packet one-way delay: 66.864 ms

Loss rate: 24.10%

-- Flow 1:

Average throughput: 83.82 Mbit/s

95th percentile per-packet one-way delay: 66.746 ms

Loss rate: 23.66%

-- Flow 2:

Average throughput: 9.55 Mbit/s

95th percentile per-packet one-way delay: 67.949 ms

Loss rate: 28.06%

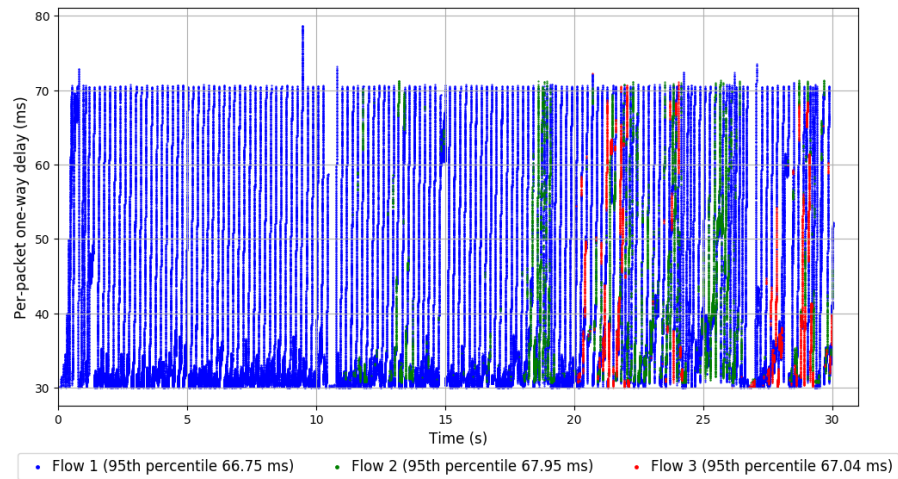
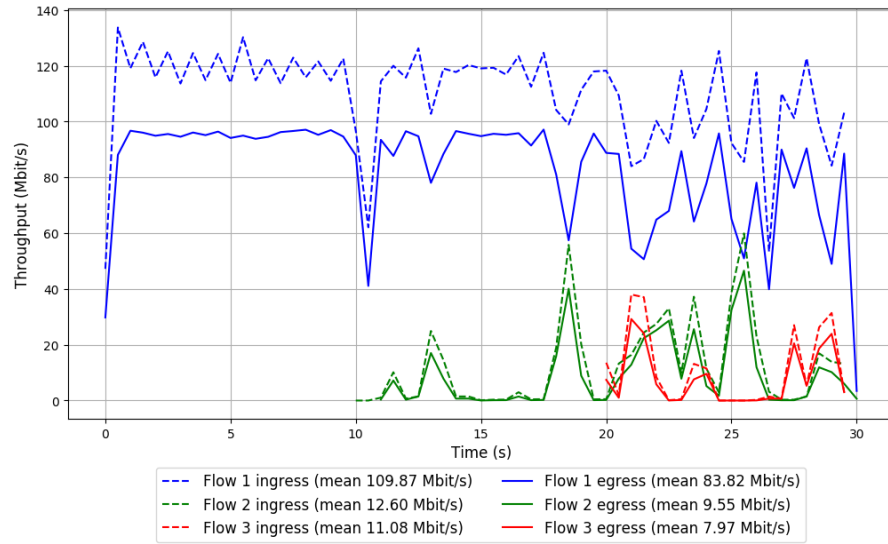
-- Flow 3:

Average throughput: 7.97 Mbit/s

95th percentile per-packet one-way delay: 67.040 ms

Loss rate: 28.20%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-01-10 06:09:18

End at: 2018-01-10 06:09:48

Local clock offset: 0.074 ms

Remote clock offset: 0.627 ms

Below is generated by plot.py at 2018-01-10 07:56:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.52 Mbit/s

95th percentile per-packet one-way delay: 68.225 ms

Loss rate: 23.69%

-- Flow 1:

Average throughput: 76.45 Mbit/s

95th percentile per-packet one-way delay: 67.394 ms

Loss rate: 23.40%

-- Flow 2:

Average throughput: 10.69 Mbit/s

95th percentile per-packet one-way delay: 68.707 ms

Loss rate: 29.39%

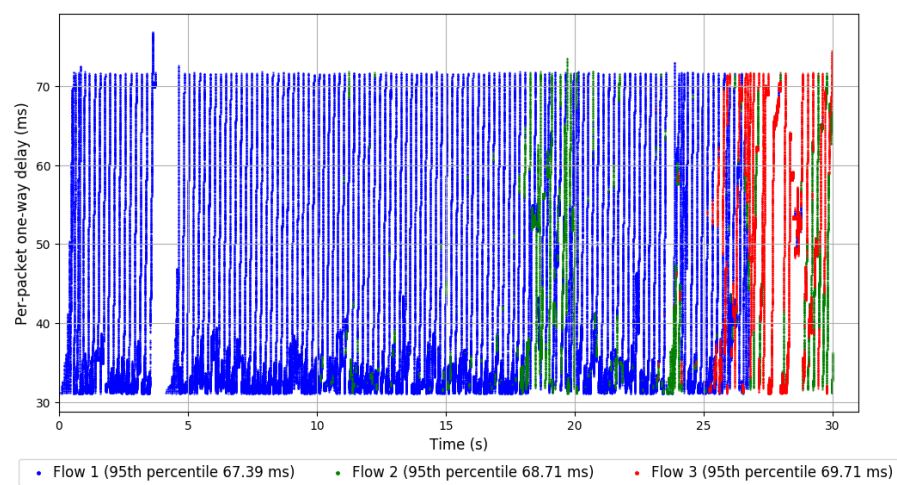
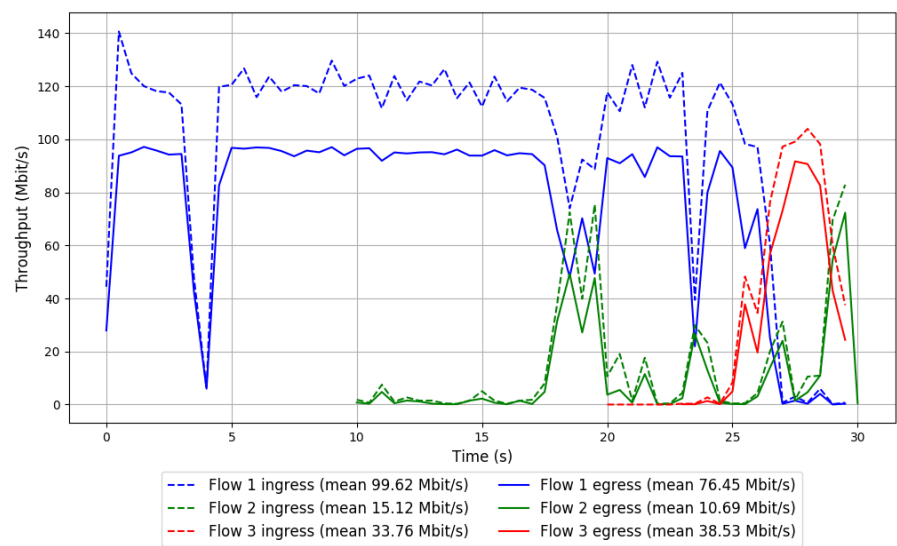
-- Flow 3:

Average throughput: 38.53 Mbit/s

95th percentile per-packet one-way delay: 69.709 ms

Loss rate: 21.10%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-01-10 06:34:39

End at: 2018-01-10 06:35:09

Local clock offset: 0.267 ms

Remote clock offset: 0.093 ms

Below is generated by plot.py at 2018-01-10 07:59:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.79 Mbit/s

95th percentile per-packet one-way delay: 67.512 ms

Loss rate: 22.15%

-- Flow 1:

Average throughput: 89.94 Mbit/s

95th percentile per-packet one-way delay: 67.547 ms

Loss rate: 21.75%

-- Flow 2:

Average throughput: 5.57 Mbit/s

95th percentile per-packet one-way delay: 66.546 ms

Loss rate: 30.21%

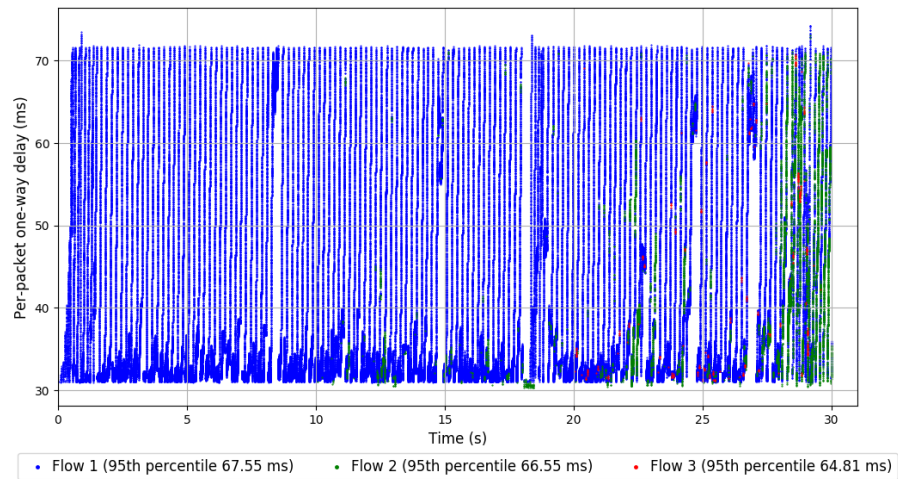
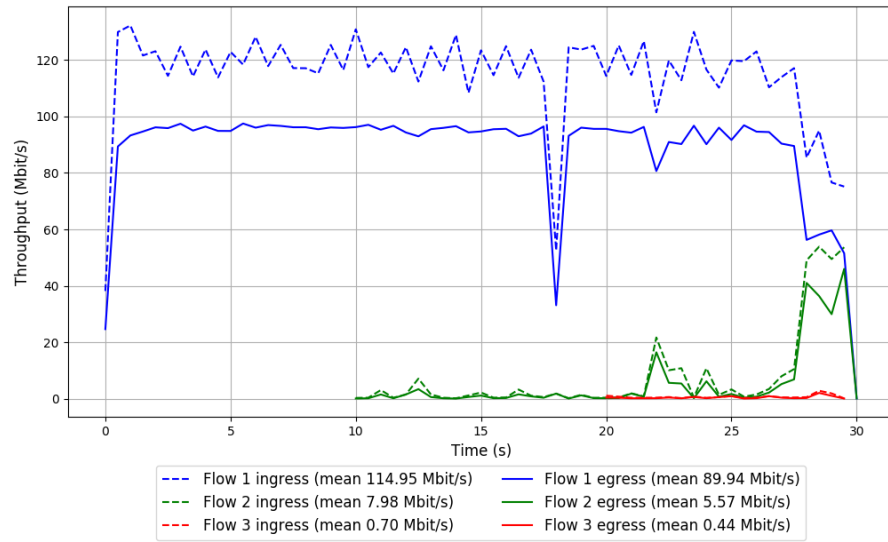
-- Flow 3:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 64.812 ms

Loss rate: 36.97%

Run 9: Report of TCP BBR — Data Link

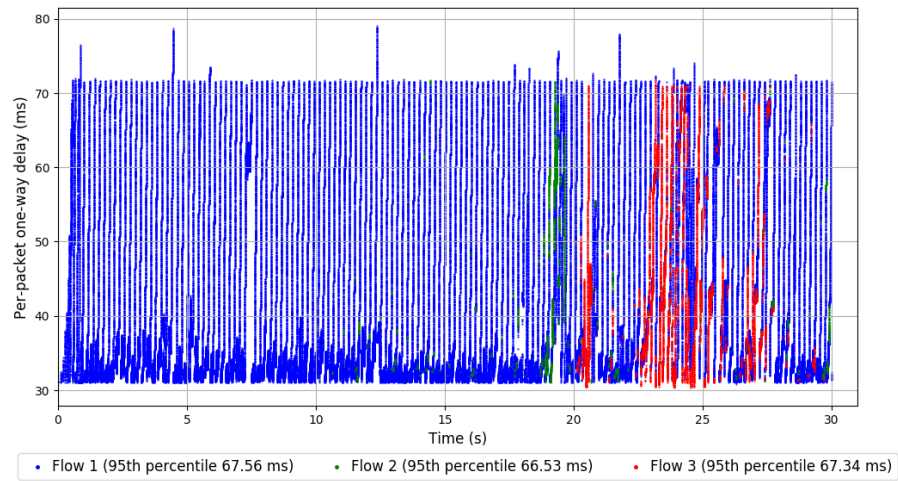
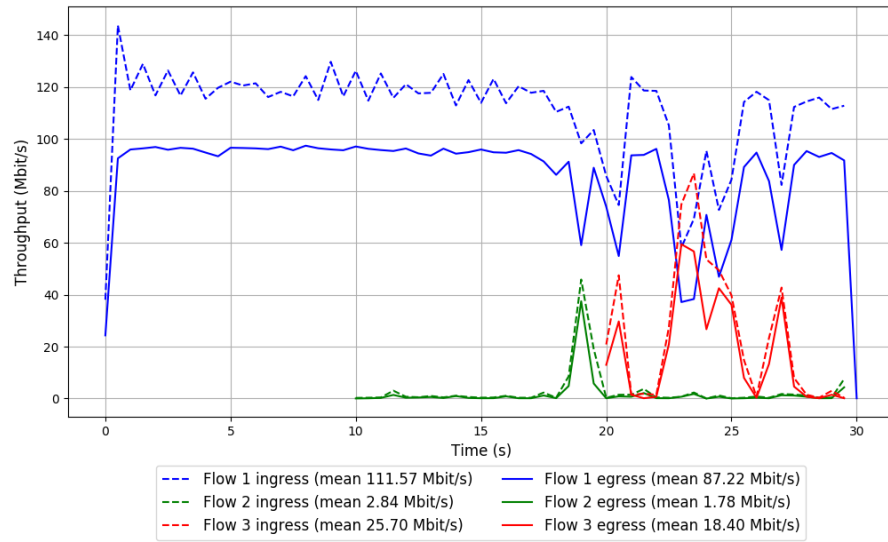


Run 10: Statistics of TCP BBR

Start at: 2018-01-10 07:00:08
End at: 2018-01-10 07:00:38
Local clock offset: 0.181 ms
Remote clock offset: -1.244 ms

Below is generated by plot.py at 2018-01-10 07:59:05
Datalink statistics
-- Total of 3 flows:
Average throughput: 94.32 Mbit/s
95th percentile per-packet one-way delay: 67.540 ms
Loss rate: 22.55%
-- Flow 1:
Average throughput: 87.22 Mbit/s
95th percentile per-packet one-way delay: 67.562 ms
Loss rate: 21.82%
-- Flow 2:
Average throughput: 1.78 Mbit/s
95th percentile per-packet one-way delay: 66.532 ms
Loss rate: 37.39%
-- Flow 3:
Average throughput: 18.40 Mbit/s
95th percentile per-packet one-way delay: 67.344 ms
Loss rate: 28.96%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-01-10 03:37:05

End at: 2018-01-10 03:37:35

Local clock offset: 0.049 ms

Remote clock offset: 1.71 ms

Below is generated by plot.py at 2018-01-10 07:59:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.88 Mbit/s

95th percentile per-packet one-way delay: 63.751 ms

Loss rate: 0.45%

-- Flow 1:

Average throughput: 68.58 Mbit/s

95th percentile per-packet one-way delay: 63.238 ms

Loss rate: 0.51%

-- Flow 2:

Average throughput: 25.08 Mbit/s

95th percentile per-packet one-way delay: 63.932 ms

Loss rate: 0.36%

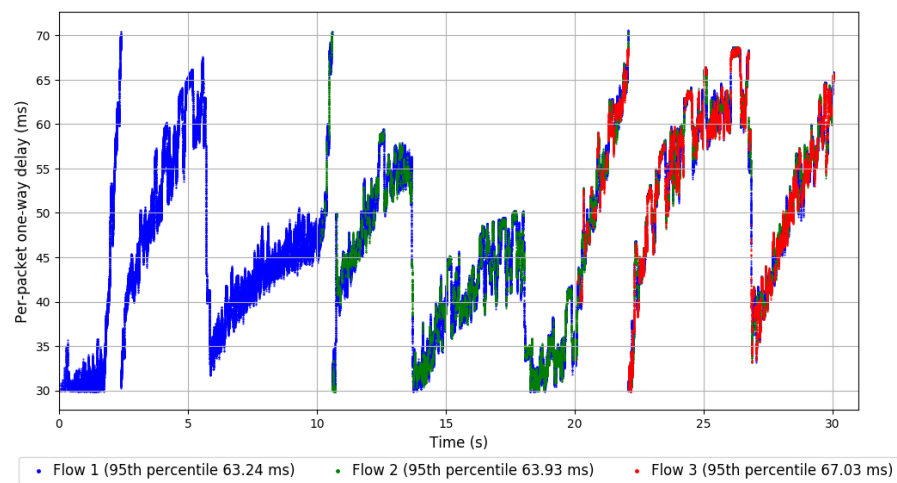
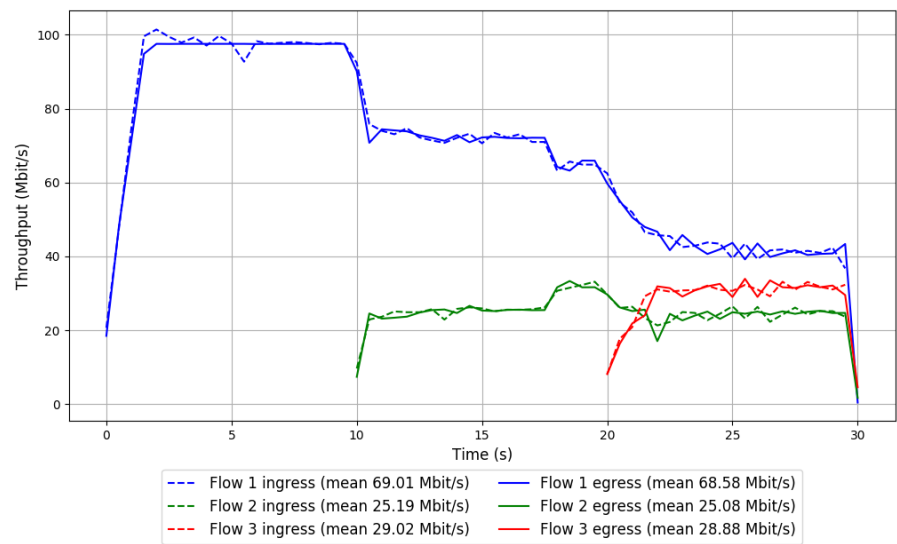
-- Flow 3:

Average throughput: 28.88 Mbit/s

95th percentile per-packet one-way delay: 67.027 ms

Loss rate: 0.16%

Run 1: Report of TCP Cubic — Data Link

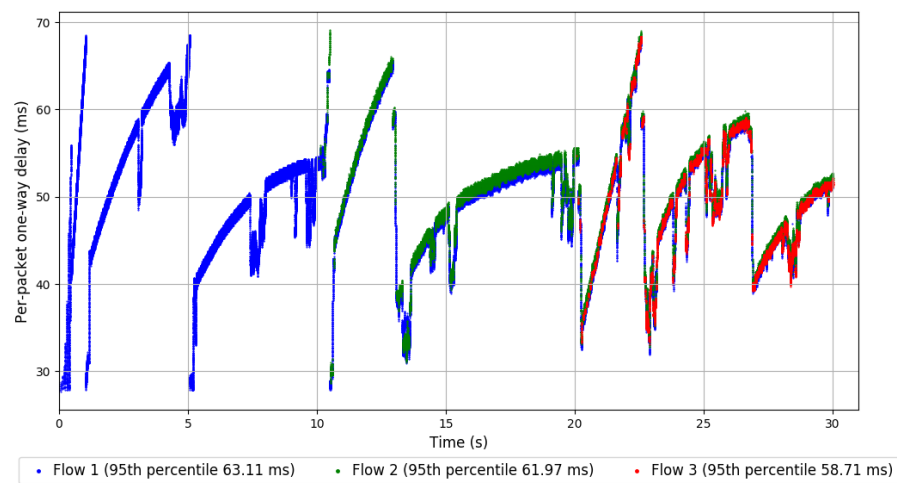
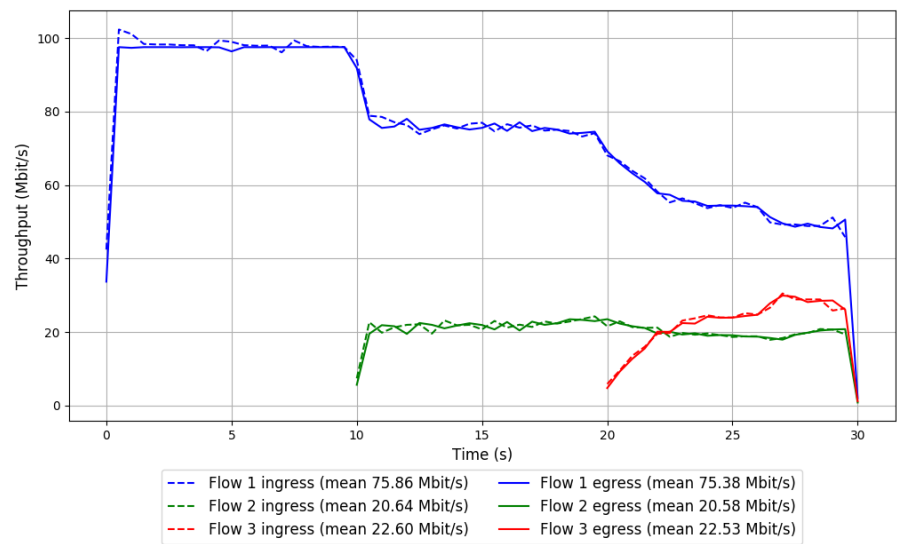


Run 2: Statistics of TCP Cubic

Start at: 2018-01-10 03:59:34
End at: 2018-01-10 04:00:04
Local clock offset: 0.198 ms
Remote clock offset: 0.102 ms

Below is generated by plot.py at 2018-01-10 07:59:05
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.53 Mbit/s
95th percentile per-packet one-way delay: 62.893 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 75.38 Mbit/s
95th percentile per-packet one-way delay: 63.109 ms
Loss rate: 0.56%
-- Flow 2:
Average throughput: 20.58 Mbit/s
95th percentile per-packet one-way delay: 61.971 ms
Loss rate: 0.32%
-- Flow 3:
Average throughput: 22.53 Mbit/s
95th percentile per-packet one-way delay: 58.709 ms
Loss rate: 0.32%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-01-10 04:21:44

End at: 2018-01-10 04:22:14

Local clock offset: 0.464 ms

Remote clock offset: 1.646 ms

Below is generated by plot.py at 2018-01-10 07:59:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.56 Mbit/s

95th percentile per-packet one-way delay: 64.573 ms

Loss rate: 0.40%

-- Flow 1:

Average throughput: 48.71 Mbit/s

95th percentile per-packet one-way delay: 63.129 ms

Loss rate: 0.34%

-- Flow 2:

Average throughput: 39.00 Mbit/s

95th percentile per-packet one-way delay: 65.337 ms

Loss rate: 0.42%

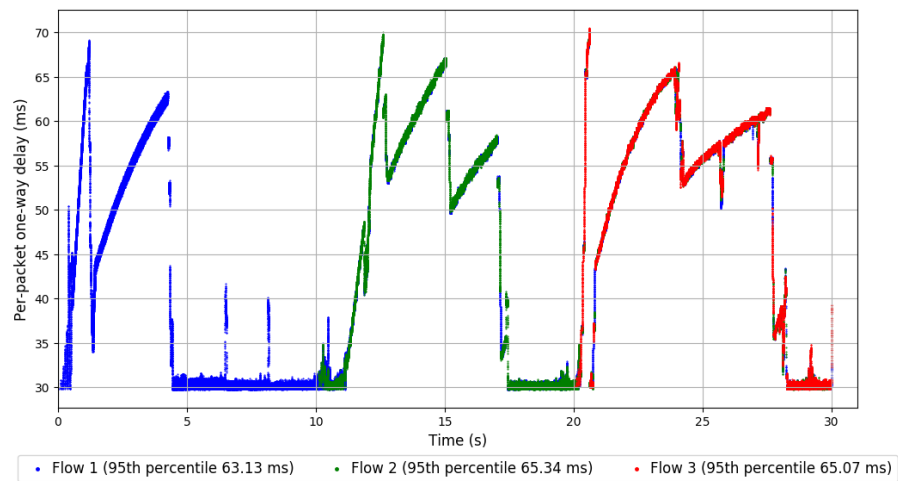
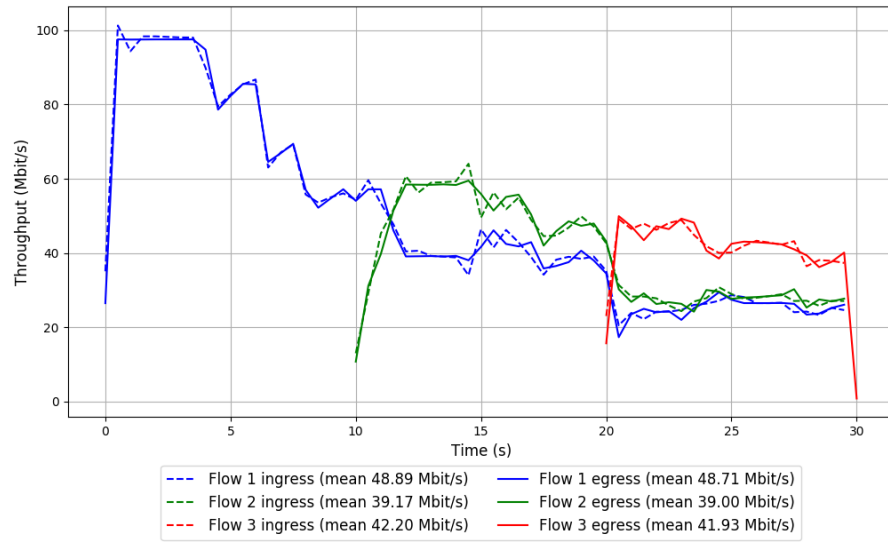
-- Flow 3:

Average throughput: 41.93 Mbit/s

95th percentile per-packet one-way delay: 65.073 ms

Loss rate: 0.57%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-01-10 04:42:57

End at: 2018-01-10 04:43:27

Local clock offset: 0.542 ms

Remote clock offset: 0.643 ms

Below is generated by plot.py at 2018-01-10 07:59:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.49 Mbit/s

95th percentile per-packet one-way delay: 67.880 ms

Loss rate: 0.49%

-- Flow 1:

Average throughput: 57.43 Mbit/s

95th percentile per-packet one-way delay: 65.535 ms

Loss rate: 0.40%

-- Flow 2:

Average throughput: 25.61 Mbit/s

95th percentile per-packet one-way delay: 68.026 ms

Loss rate: 0.59%

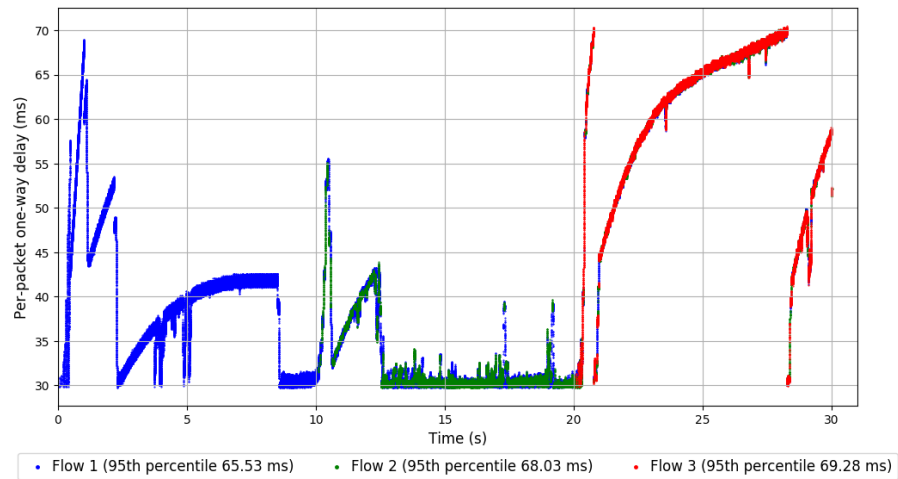
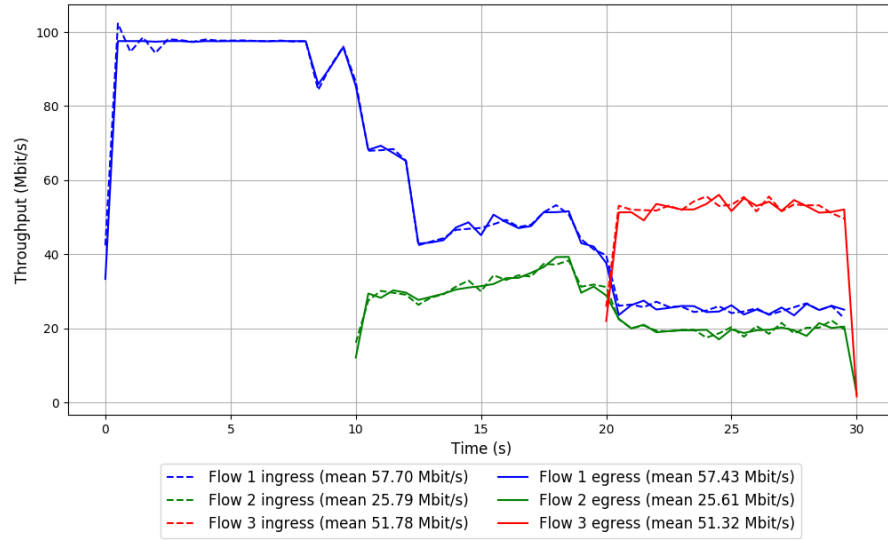
-- Flow 3:

Average throughput: 51.32 Mbit/s

95th percentile per-packet one-way delay: 69.275 ms

Loss rate: 0.68%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-01-10 05:05:16

End at: 2018-01-10 05:05:46

Local clock offset: 0.629 ms

Remote clock offset: 0.577 ms

Below is generated by plot.py at 2018-01-10 07:59:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.89 Mbit/s

95th percentile per-packet one-way delay: 64.521 ms

Loss rate: 0.59%

-- Flow 1:

Average throughput: 70.55 Mbit/s

95th percentile per-packet one-way delay: 64.573 ms

Loss rate: 0.62%

-- Flow 2:

Average throughput: 18.40 Mbit/s

95th percentile per-packet one-way delay: 65.957 ms

Loss rate: 0.80%

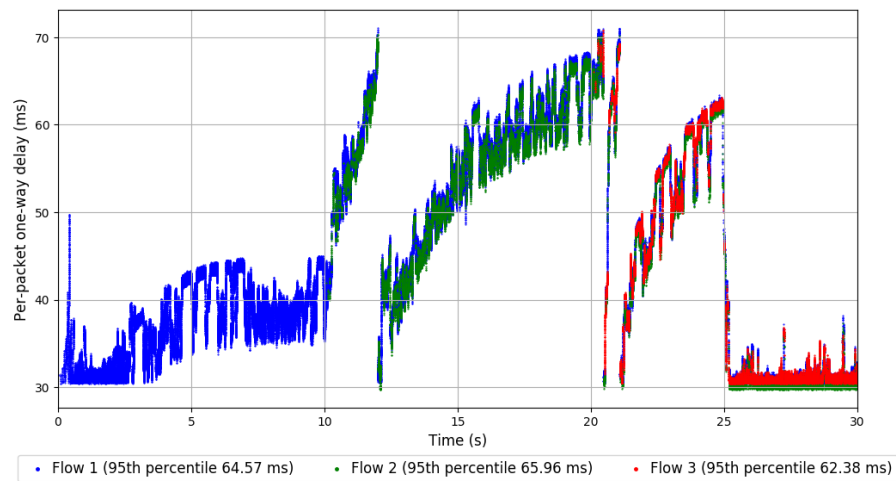
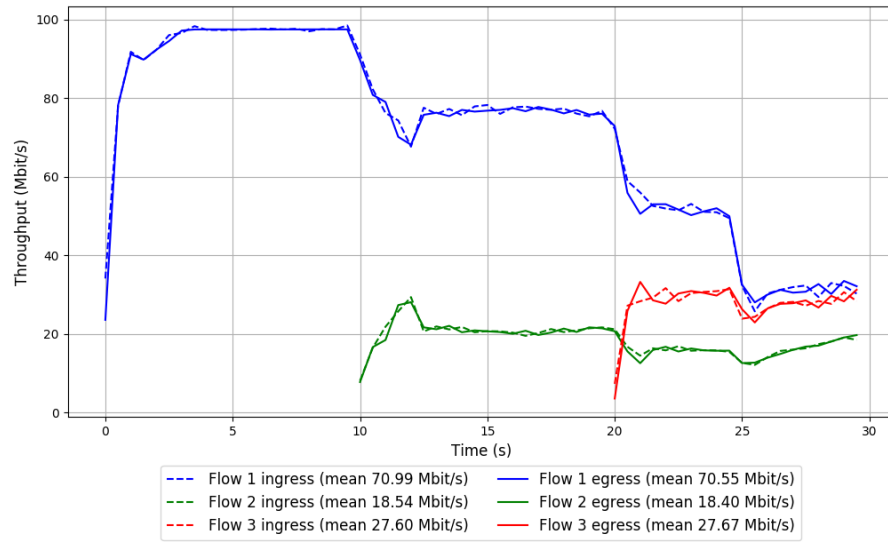
-- Flow 3:

Average throughput: 27.67 Mbit/s

95th percentile per-packet one-way delay: 62.380 ms

Loss rate: 0.12%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-01-10 05:31:50

End at: 2018-01-10 05:32:20

Local clock offset: 0.353 ms

Remote clock offset: 1.424 ms

Below is generated by plot.py at 2018-01-10 07:59:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.83 Mbit/s

95th percentile per-packet one-way delay: 64.615 ms

Loss rate: 0.77%

-- Flow 1:

Average throughput: 71.98 Mbit/s

95th percentile per-packet one-way delay: 64.252 ms

Loss rate: 0.65%

-- Flow 2:

Average throughput: 22.68 Mbit/s

95th percentile per-packet one-way delay: 65.039 ms

Loss rate: 0.72%

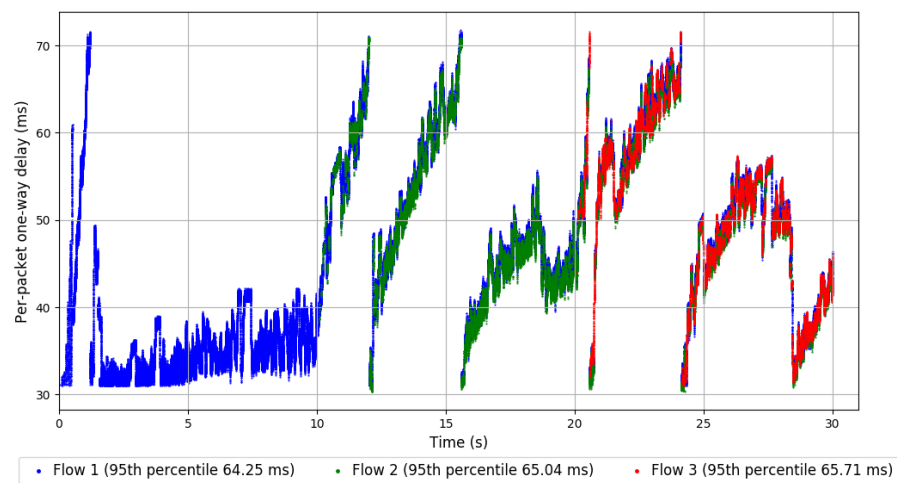
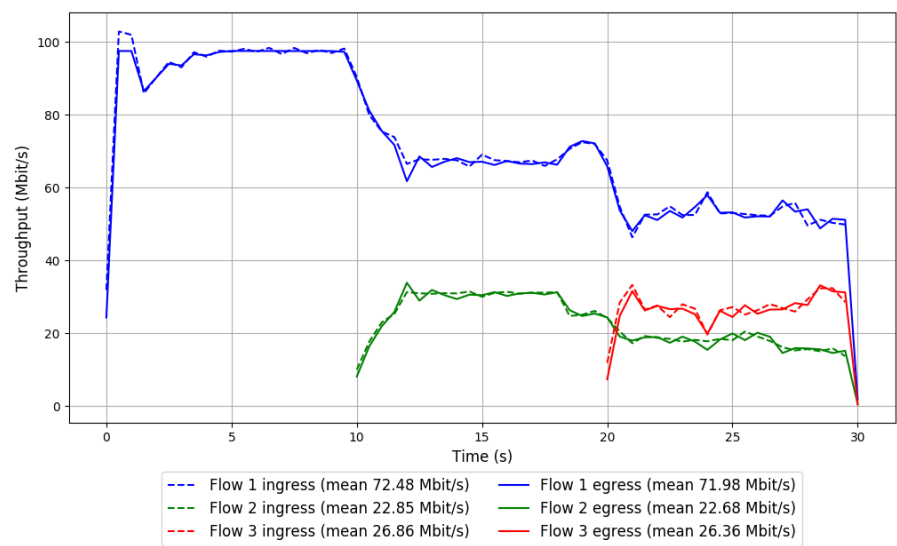
-- Flow 3:

Average throughput: 26.36 Mbit/s

95th percentile per-packet one-way delay: 65.711 ms

Loss rate: 1.85%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-01-10 05:58:59

End at: 2018-01-10 05:59:29

Local clock offset: 0.121 ms

Remote clock offset: 0.889 ms

Below is generated by plot.py at 2018-01-10 08:01:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.65 Mbit/s

95th percentile per-packet one-way delay: 65.365 ms

Loss rate: 0.71%

-- Flow 1:

Average throughput: 70.33 Mbit/s

95th percentile per-packet one-way delay: 65.359 ms

Loss rate: 0.75%

-- Flow 2:

Average throughput: 24.24 Mbit/s

95th percentile per-packet one-way delay: 67.373 ms

Loss rate: 0.90%

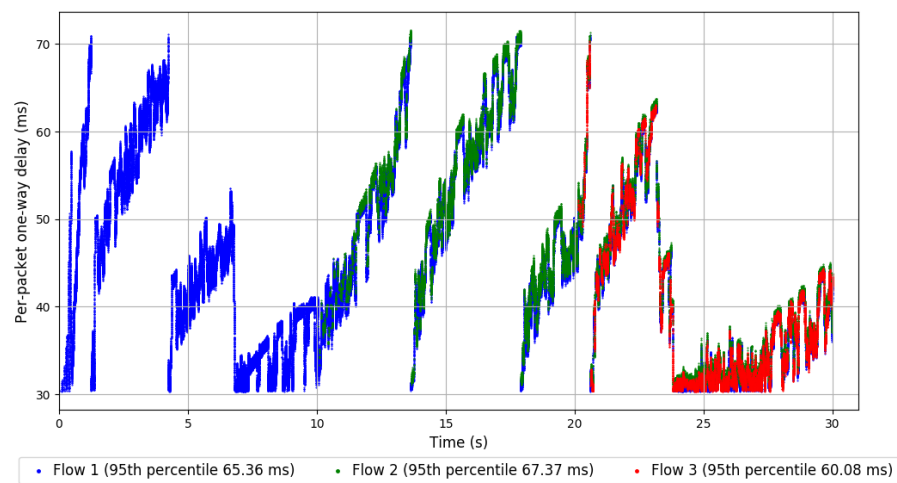
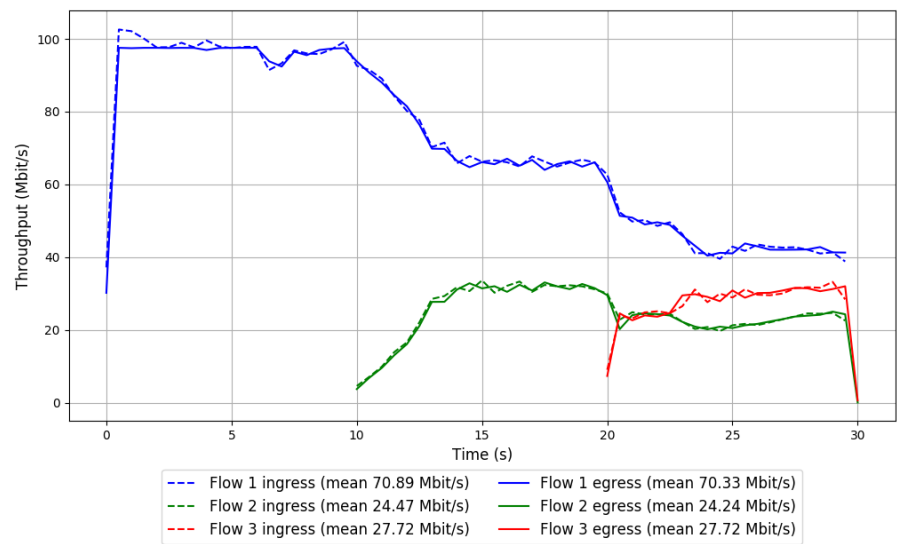
-- Flow 3:

Average throughput: 27.72 Mbit/s

95th percentile per-packet one-way delay: 60.076 ms

Loss rate: 0.03%

Run 7: Report of TCP Cubic — Data Link

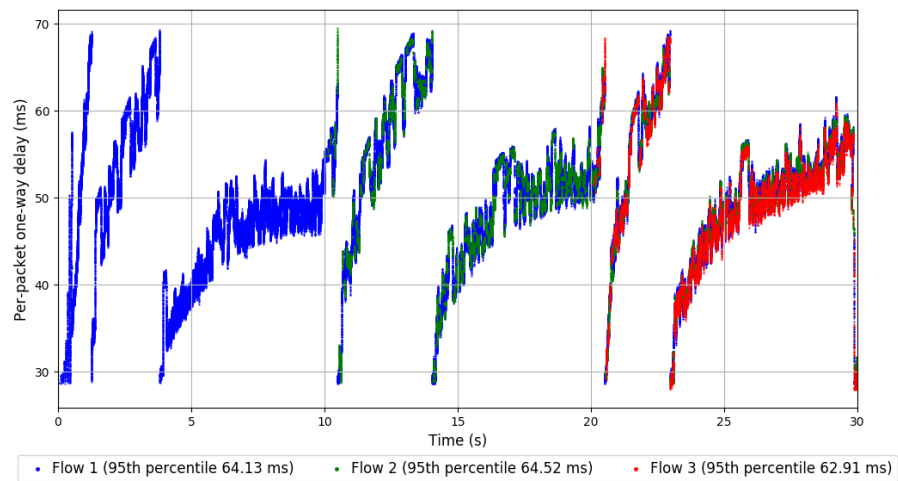
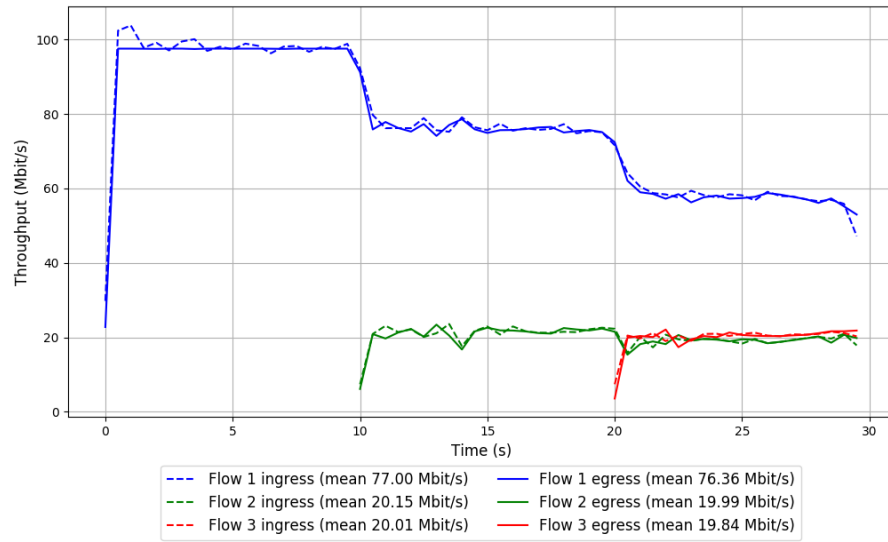


Run 8: Statistics of TCP Cubic

Start at: 2018-01-10 06:24:03
End at: 2018-01-10 06:24:33
Local clock offset: 0.103 ms
Remote clock offset: -2.265 ms

Below is generated by plot.py at 2018-01-10 08:01:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.22 Mbit/s
95th percentile per-packet one-way delay: 64.060 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 76.36 Mbit/s
95th percentile per-packet one-way delay: 64.129 ms
Loss rate: 0.83%
-- Flow 2:
Average throughput: 19.99 Mbit/s
95th percentile per-packet one-way delay: 64.519 ms
Loss rate: 0.94%
-- Flow 3:
Average throughput: 19.84 Mbit/s
95th percentile per-packet one-way delay: 62.908 ms
Loss rate: 1.07%

Run 8: Report of TCP Cubic — Data Link

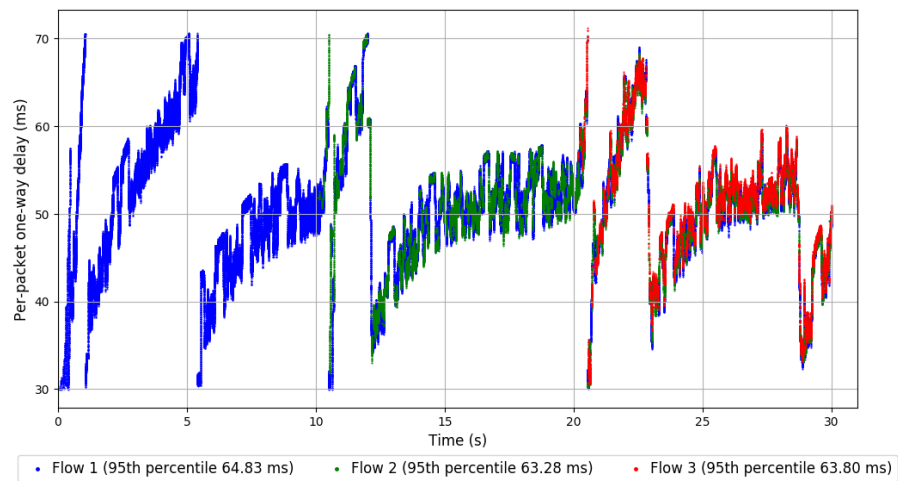
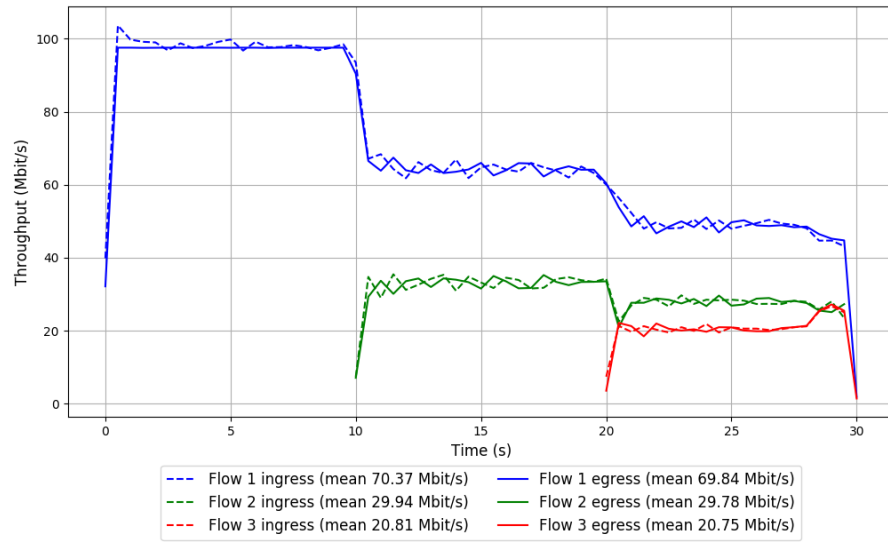


Run 9: Statistics of TCP Cubic

Start at: 2018-01-10 06:49:26
End at: 2018-01-10 06:49:56
Local clock offset: 0.173 ms
Remote clock offset: -0.949 ms

Below is generated by plot.py at 2018-01-10 08:01:40
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.50 Mbit/s
95th percentile per-packet one-way delay: 64.357 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 69.84 Mbit/s
95th percentile per-packet one-way delay: 64.832 ms
Loss rate: 0.70%
-- Flow 2:
Average throughput: 29.78 Mbit/s
95th percentile per-packet one-way delay: 63.277 ms
Loss rate: 0.53%
-- Flow 3:
Average throughput: 20.75 Mbit/s
95th percentile per-packet one-way delay: 63.803 ms
Loss rate: 0.32%

Run 9: Report of TCP Cubic — Data Link

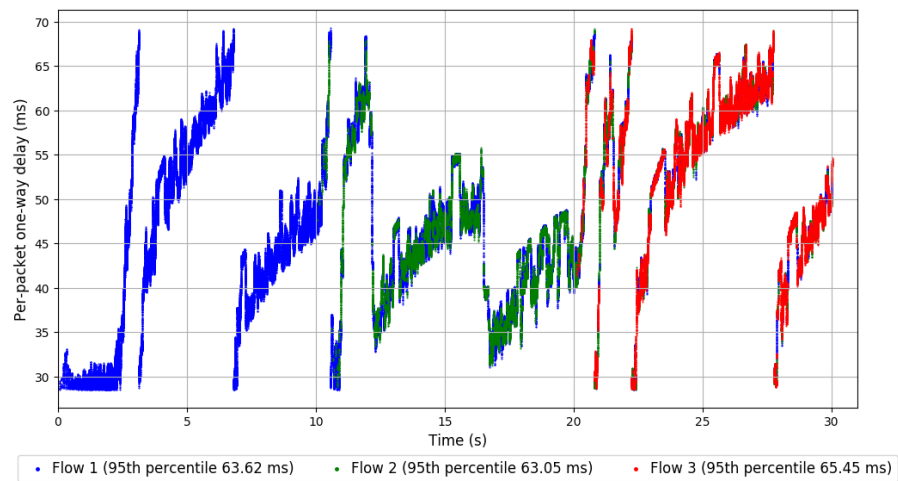
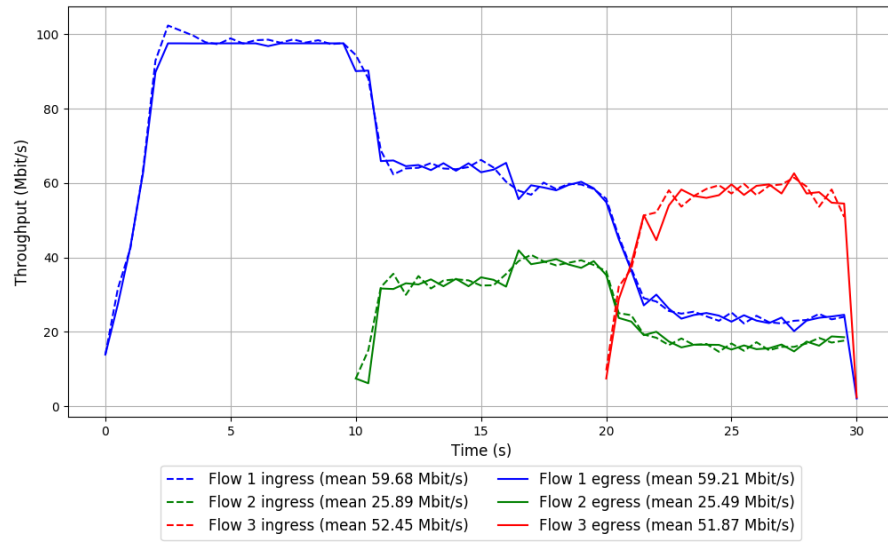


Run 10: Statistics of TCP Cubic

Start at: 2018-01-10 07:14:51
End at: 2018-01-10 07:15:21
Local clock offset: 0.053 ms
Remote clock offset: -4.976 ms

Below is generated by plot.py at 2018-01-10 08:01:40
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.35 Mbit/s
95th percentile per-packet one-way delay: 63.986 ms
Loss rate: 0.93%
-- Flow 1:
Average throughput: 59.21 Mbit/s
95th percentile per-packet one-way delay: 63.621 ms
Loss rate: 0.72%
-- Flow 2:
Average throughput: 25.49 Mbit/s
95th percentile per-packet one-way delay: 63.047 ms
Loss rate: 1.54%
-- Flow 3:
Average throughput: 51.87 Mbit/s
95th percentile per-packet one-way delay: 65.447 ms
Loss rate: 1.02%

Run 10: Report of TCP Cubic — Data Link

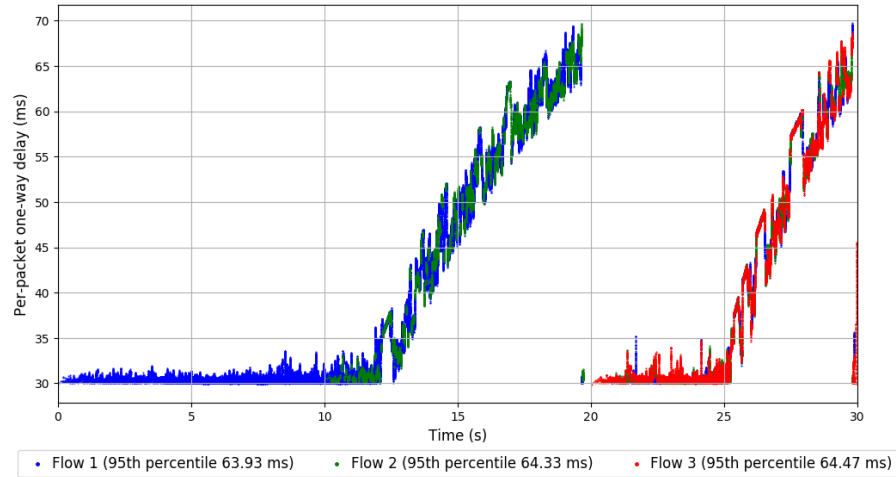
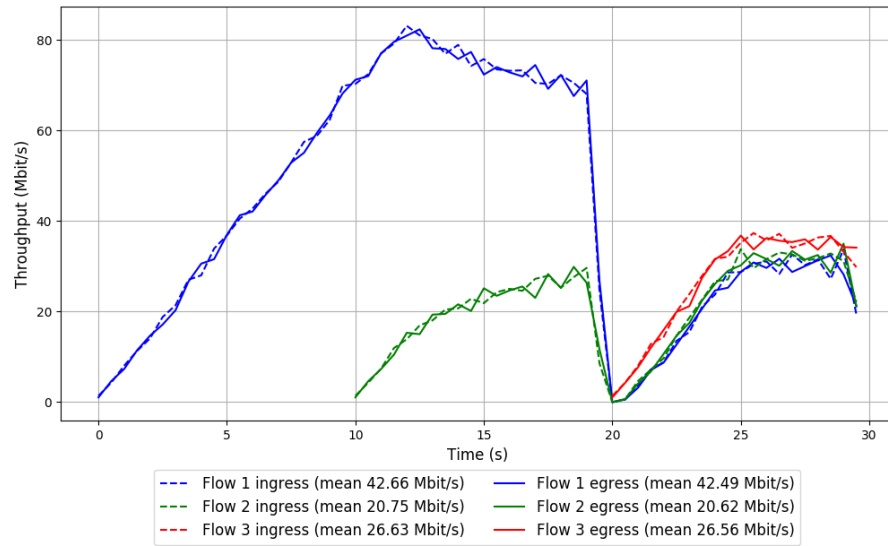


```
Run 1: Statistics of LEDBAT

Start at: 2018-01-10 03:29:28
End at: 2018-01-10 03:29:58
Local clock offset: -0.04 ms
Remote clock offset: 1.641 ms

# Below is generated by plot.py at 2018-01-10 08:01:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 64.80 Mbit/s
95th percentile per-packet one-way delay: 64.117 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 42.49 Mbit/s
95th percentile per-packet one-way delay: 63.931 ms
Loss rate: 0.37%
-- Flow 2:
Average throughput: 20.62 Mbit/s
95th percentile per-packet one-way delay: 64.331 ms
Loss rate: 0.63%
-- Flow 3:
Average throughput: 26.56 Mbit/s
95th percentile per-packet one-way delay: 64.473 ms
Loss rate: 0.10%
```

Run 1: Report of LEDBAT — Data Link

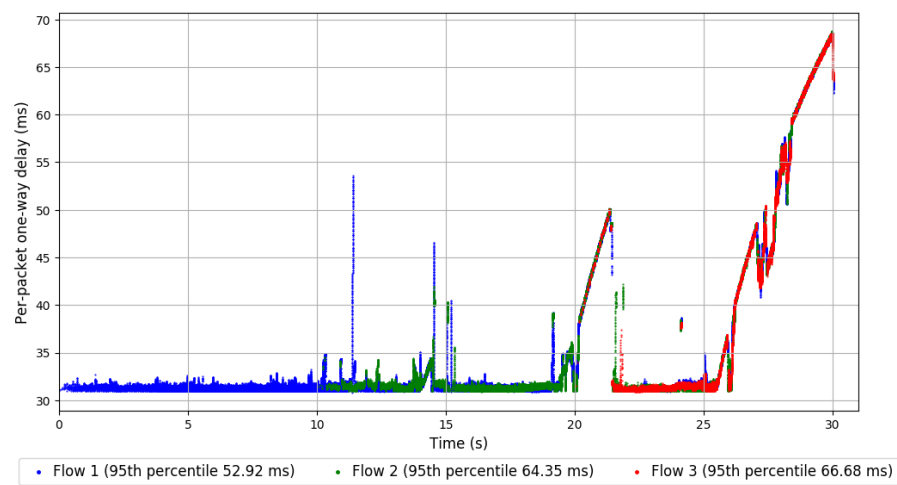
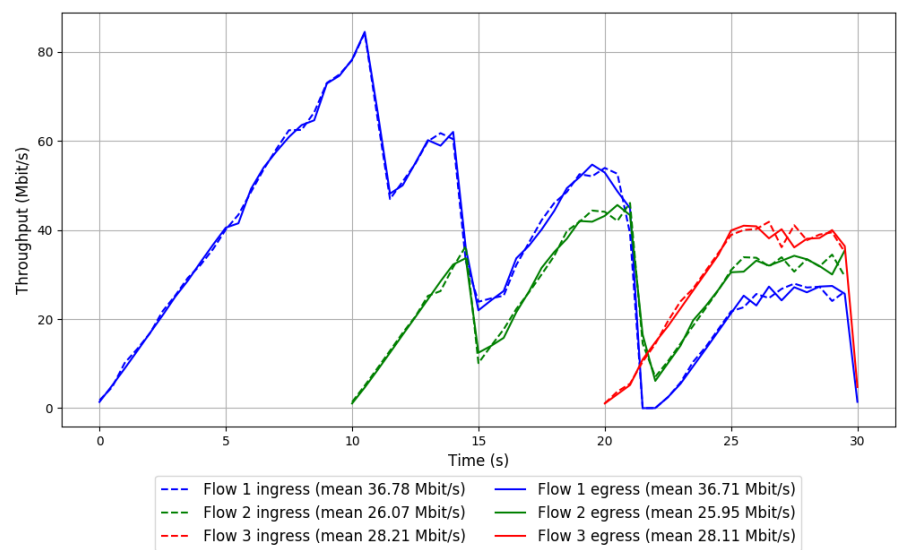


```
Run 2: Statistics of LEDBAT

Start at: 2018-01-10 03:52:28
End at: 2018-01-10 03:52:58
Local clock offset: 0.085 ms
Remote clock offset: 2.456 ms

# Below is generated by plot.py at 2018-01-10 08:01:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 63.28 Mbit/s
95th percentile per-packet one-way delay: 63.337 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 36.71 Mbit/s
95th percentile per-packet one-way delay: 52.918 ms
Loss rate: 0.09%
-- Flow 2:
Average throughput: 25.95 Mbit/s
95th percentile per-packet one-way delay: 64.352 ms
Loss rate: 0.27%
-- Flow 3:
Average throughput: 28.11 Mbit/s
95th percentile per-packet one-way delay: 66.682 ms
Loss rate: 0.00%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-01-10 04:14:47

End at: 2018-01-10 04:15:17

Local clock offset: 0.406 ms

Remote clock offset: 2.35 ms

Below is generated by plot.py at 2018-01-10 08:01:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 59.74 Mbit/s

95th percentile per-packet one-way delay: 52.777 ms

Loss rate: 0.13%

-- Flow 1:

Average throughput: 34.75 Mbit/s

95th percentile per-packet one-way delay: 51.648 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 29.46 Mbit/s

95th percentile per-packet one-way delay: 53.393 ms

Loss rate: 0.11%

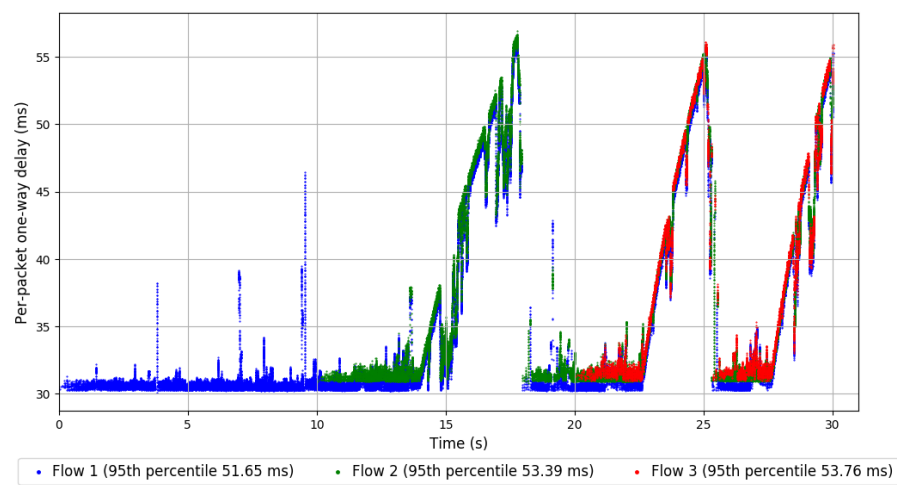
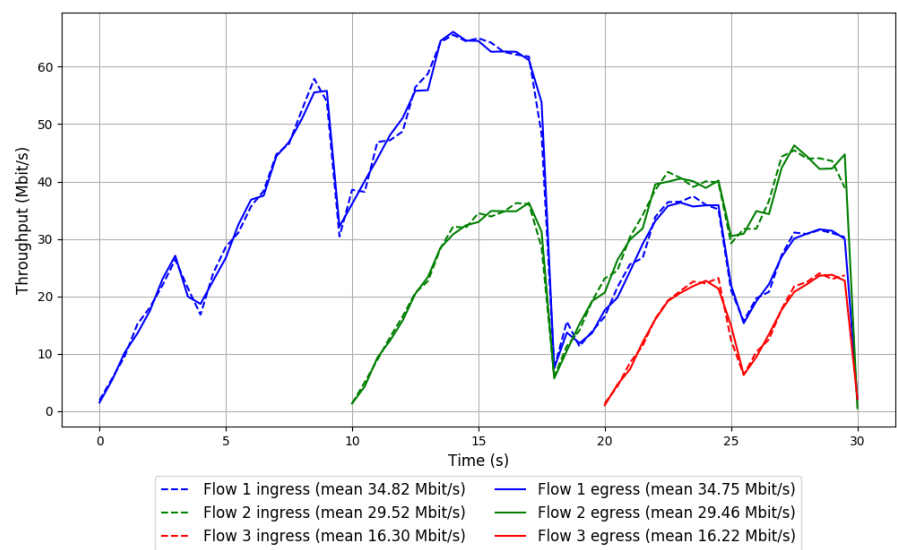
-- Flow 3:

Average throughput: 16.22 Mbit/s

95th percentile per-packet one-way delay: 53.756 ms

Loss rate: 0.24%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-01-10 04:36:07

End at: 2018-01-10 04:36:37

Local clock offset: 0.462 ms

Remote clock offset: -1.07 ms

Below is generated by plot.py at 2018-01-10 08:01:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 65.15 Mbit/s

95th percentile per-packet one-way delay: 55.226 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 40.77 Mbit/s

95th percentile per-packet one-way delay: 54.457 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 25.24 Mbit/s

95th percentile per-packet one-way delay: 55.762 ms

Loss rate: 0.16%

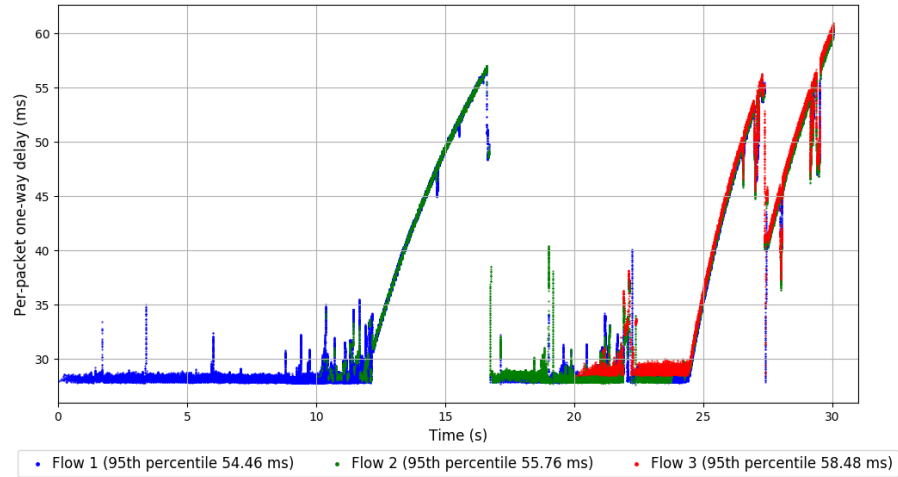
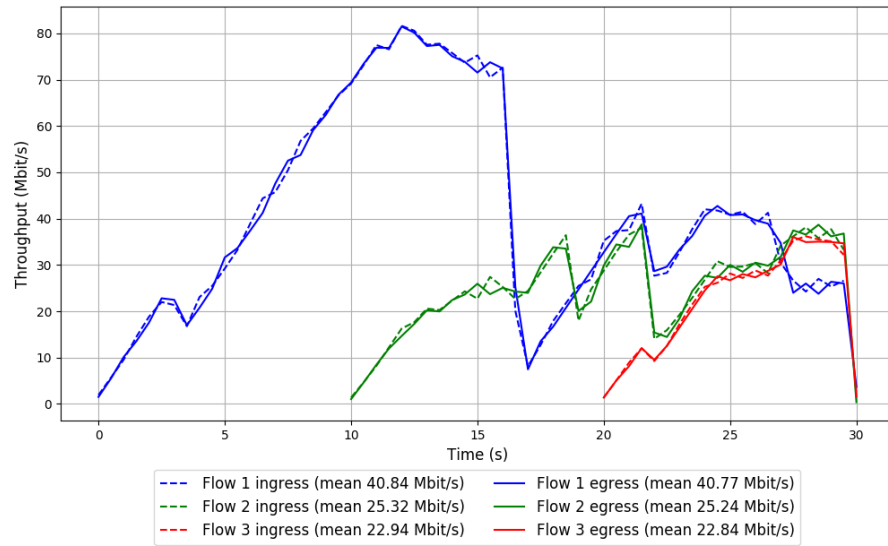
-- Flow 3:

Average throughput: 22.84 Mbit/s

95th percentile per-packet one-way delay: 58.479 ms

Loss rate: 0.13%

Run 4: Report of LEDBAT — Data Link

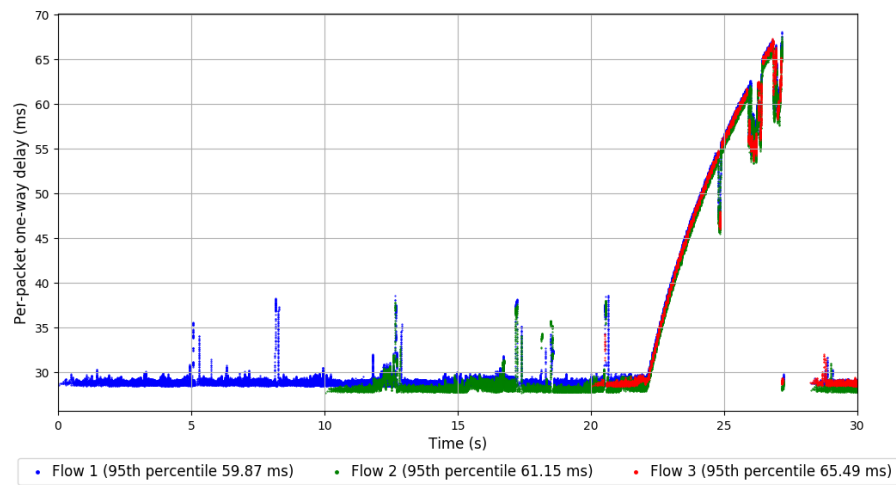
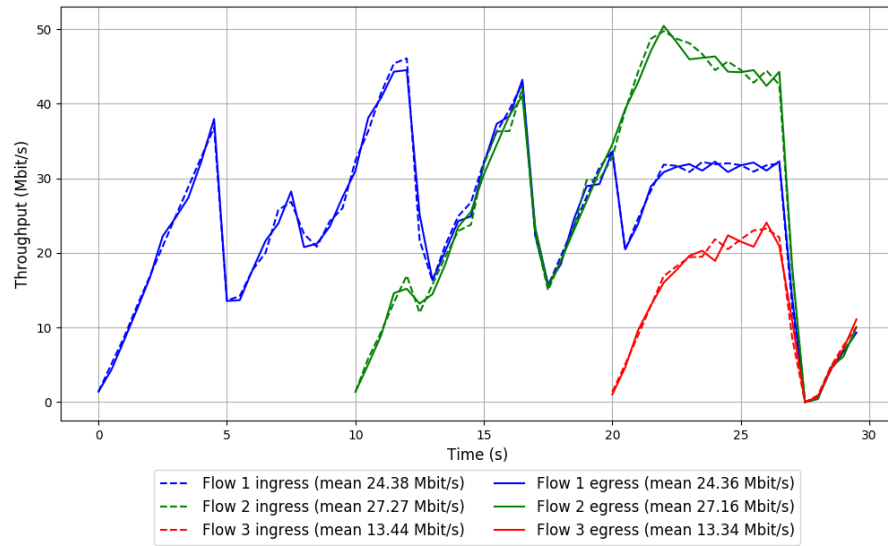


Run 5: Statistics of LEDBAT

Start at: 2018-01-10 04:58:09
End at: 2018-01-10 04:58:39
Local clock offset: 0.669 ms
Remote clock offset: -1.472 ms

Below is generated by plot.py at 2018-01-10 08:02:14
Datalink statistics
-- Total of 3 flows:
Average throughput: 46.83 Mbit/s
95th percentile per-packet one-way delay: 61.143 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 24.36 Mbit/s
95th percentile per-packet one-way delay: 59.866 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 27.16 Mbit/s
95th percentile per-packet one-way delay: 61.152 ms
Loss rate: 0.42%
-- Flow 3:
Average throughput: 13.34 Mbit/s
95th percentile per-packet one-way delay: 65.491 ms
Loss rate: 0.74%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-01-10 05:24:09

End at: 2018-01-10 05:24:39

Local clock offset: 0.366 ms

Remote clock offset: 1.404 ms

Below is generated by plot.py at 2018-01-10 08:02:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 60.80 Mbit/s

95th percentile per-packet one-way delay: 60.071 ms

Loss rate: 0.27%

-- Flow 1:

Average throughput: 41.00 Mbit/s

95th percentile per-packet one-way delay: 57.454 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 23.84 Mbit/s

95th percentile per-packet one-way delay: 62.735 ms

Loss rate: 0.61%

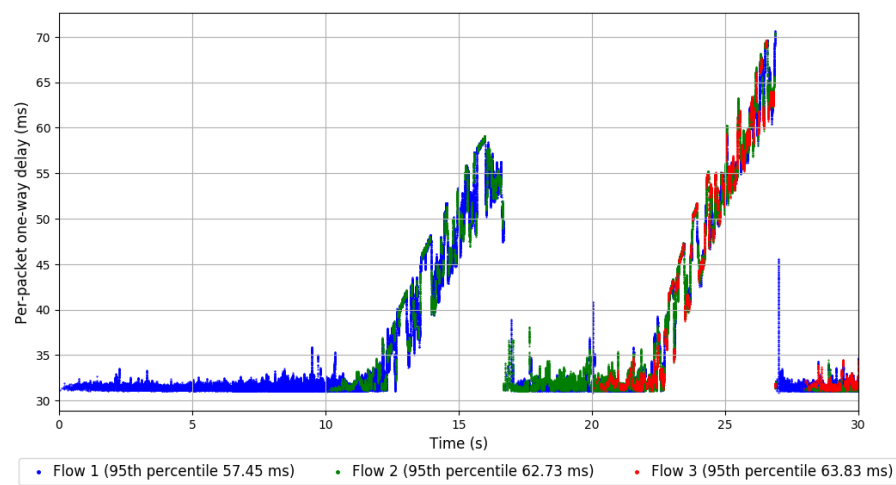
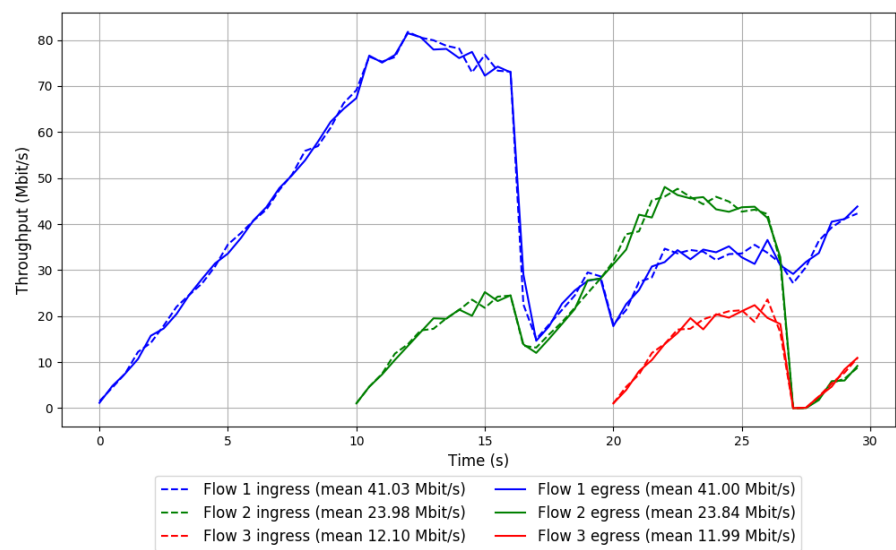
-- Flow 3:

Average throughput: 11.99 Mbit/s

95th percentile per-packet one-way delay: 63.828 ms

Loss rate: 0.90%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-01-10 05:51:27

End at: 2018-01-10 05:51:57

Local clock offset: 0.139 ms

Remote clock offset: 0.646 ms

Below is generated by plot.py at 2018-01-10 08:02:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 59.57 Mbit/s

95th percentile per-packet one-way delay: 48.610 ms

Loss rate: 0.14%

-- Flow 1:

Average throughput: 37.85 Mbit/s

95th percentile per-packet one-way delay: 47.337 ms

Loss rate: 0.14%

-- Flow 2:

Average throughput: 21.31 Mbit/s

95th percentile per-packet one-way delay: 49.230 ms

Loss rate: 0.17%

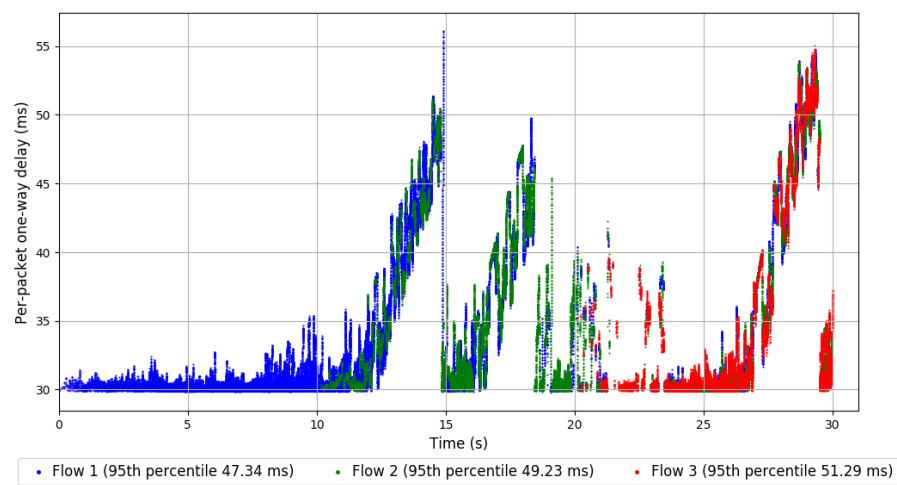
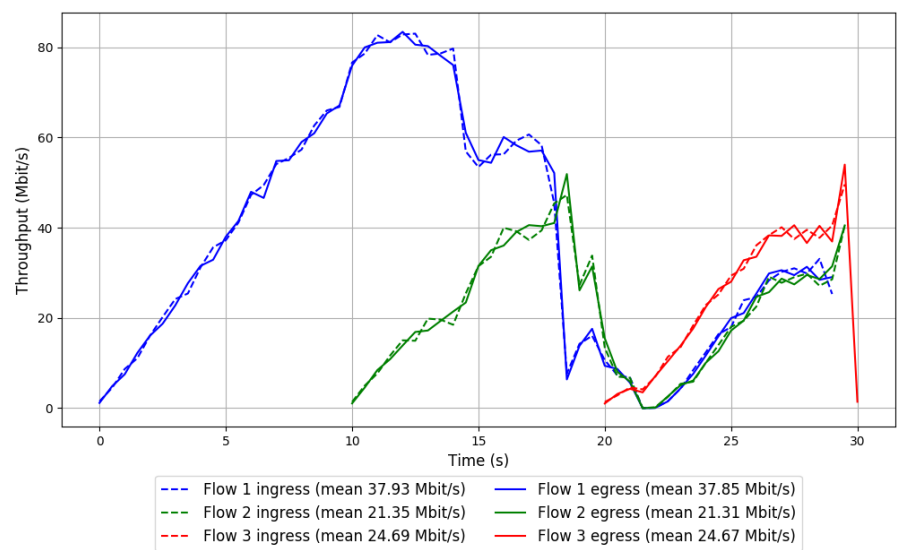
-- Flow 3:

Average throughput: 24.67 Mbit/s

95th percentile per-packet one-way delay: 51.289 ms

Loss rate: 0.07%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-01-10 06:16:40

End at: 2018-01-10 06:17:10

Local clock offset: 0.153 ms

Remote clock offset: 0.32 ms

Below is generated by plot.py at 2018-01-10 08:03:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 69.67 Mbit/s

95th percentile per-packet one-way delay: 63.090 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 40.28 Mbit/s

95th percentile per-packet one-way delay: 61.051 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 34.44 Mbit/s

95th percentile per-packet one-way delay: 63.625 ms

Loss rate: 0.07%

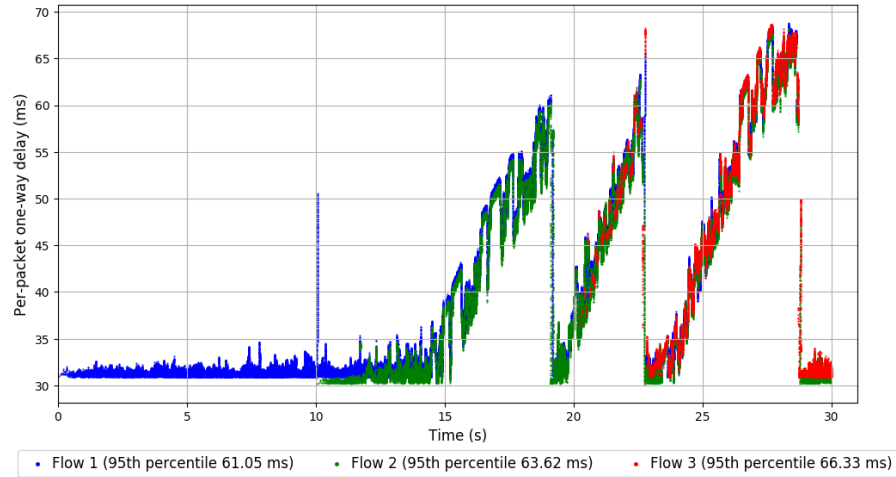
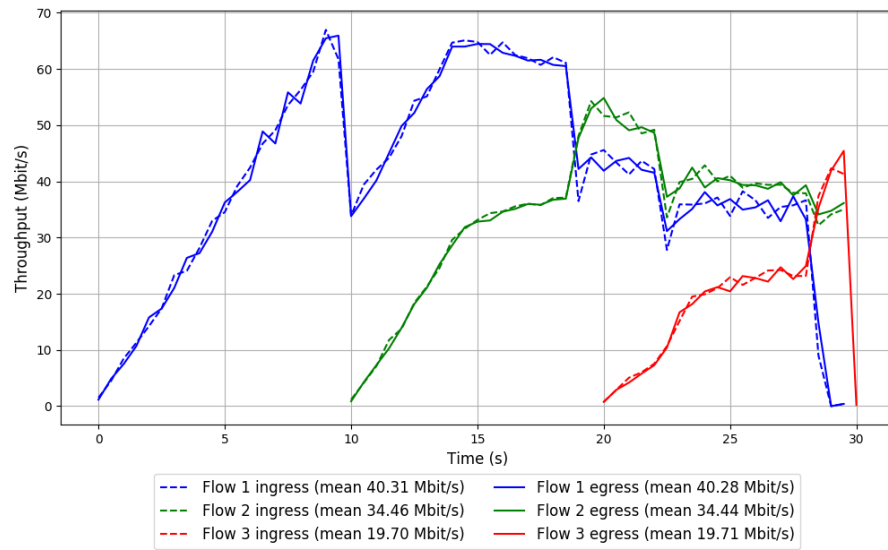
-- Flow 3:

Average throughput: 19.71 Mbit/s

95th percentile per-packet one-way delay: 66.329 ms

Loss rate: 0.05%

Run 8: Report of LEDBAT — Data Link

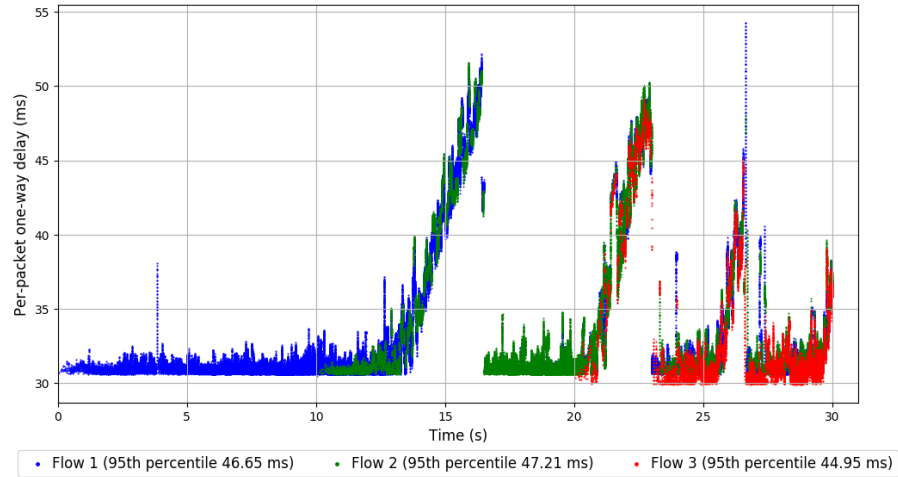
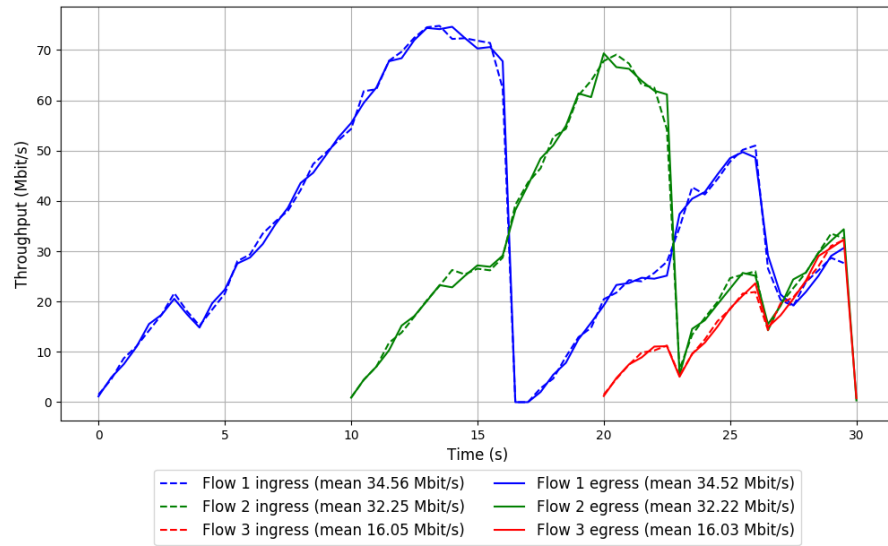


Run 9: Statistics of LEDBAT

Start at: 2018-01-10 06:42:03
End at: 2018-01-10 06:42:33
Local clock offset: 0.286 ms
Remote clock offset: -0.402 ms

Below is generated by plot.py at 2018-01-10 08:03:16
Datalink statistics
-- Total of 3 flows:
Average throughput: 61.26 Mbit/s
95th percentile per-packet one-way delay: 46.848 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 34.52 Mbit/s
95th percentile per-packet one-way delay: 46.645 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 32.22 Mbit/s
95th percentile per-packet one-way delay: 47.213 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 16.03 Mbit/s
95th percentile per-packet one-way delay: 44.952 ms
Loss rate: 0.08%

Run 9: Report of LEDBAT — Data Link

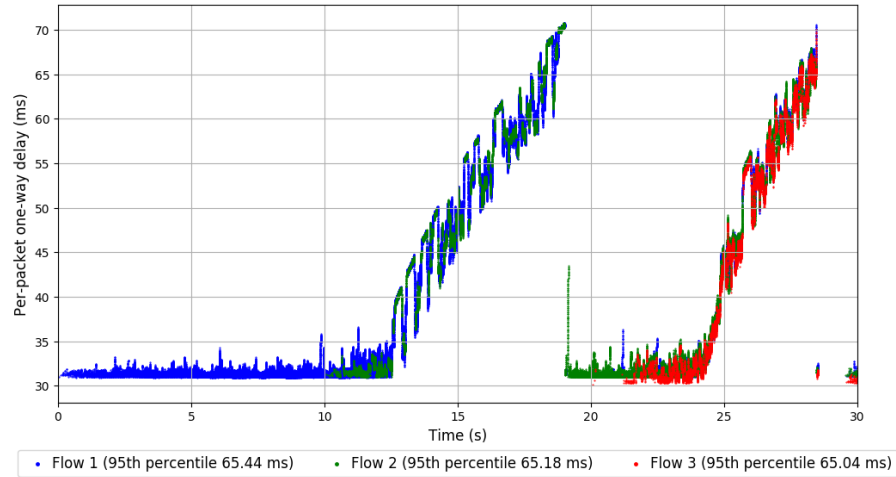
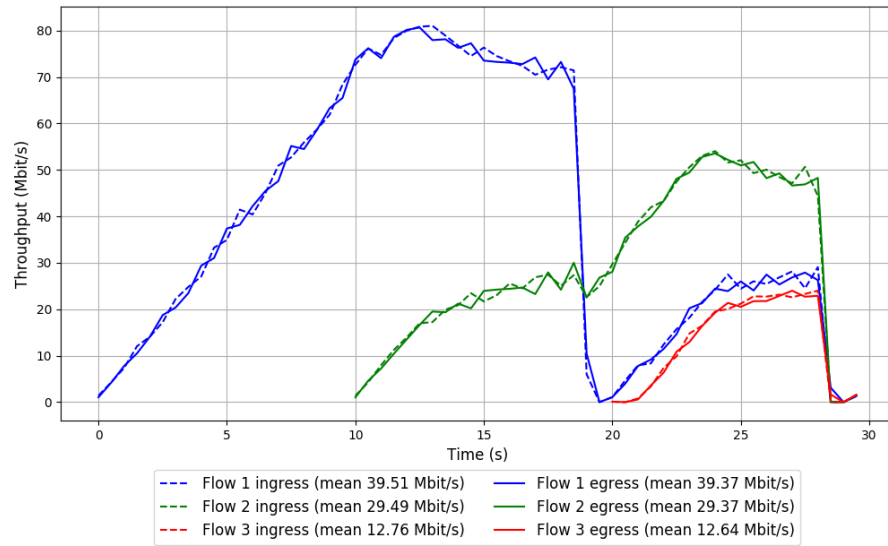


Run 10: Statistics of LEDBAT

Start at: 2018-01-10 07:07:28
End at: 2018-01-10 07:07:58
Local clock offset: 0.152 ms
Remote clock offset: -1.869 ms

Below is generated by plot.py at 2018-01-10 08:03:29
Datalink statistics
-- Total of 3 flows:
Average throughput: 63.01 Mbit/s
95th percentile per-packet one-way delay: 65.273 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 39.37 Mbit/s
95th percentile per-packet one-way delay: 65.441 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 29.37 Mbit/s
95th percentile per-packet one-way delay: 65.177 ms
Loss rate: 0.41%
-- Flow 3:
Average throughput: 12.64 Mbit/s
95th percentile per-packet one-way delay: 65.037 ms
Loss rate: 0.95%

Run 10: Report of LEDBAT — Data Link

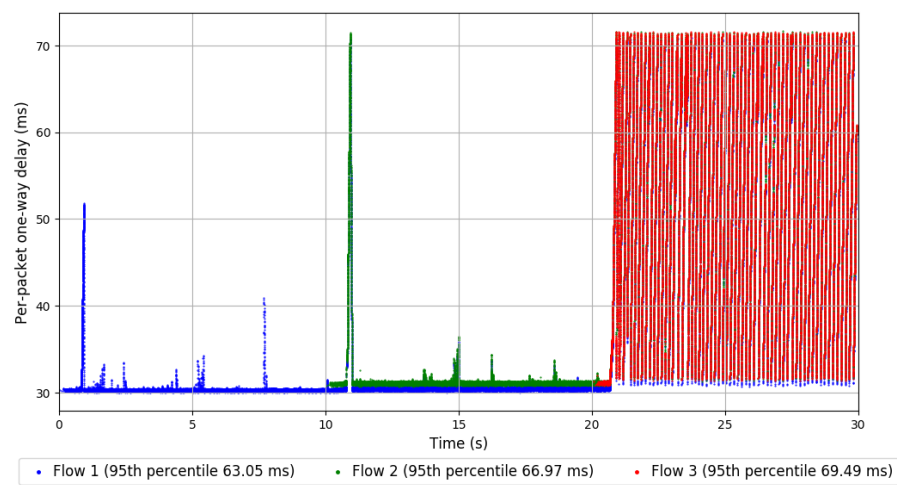
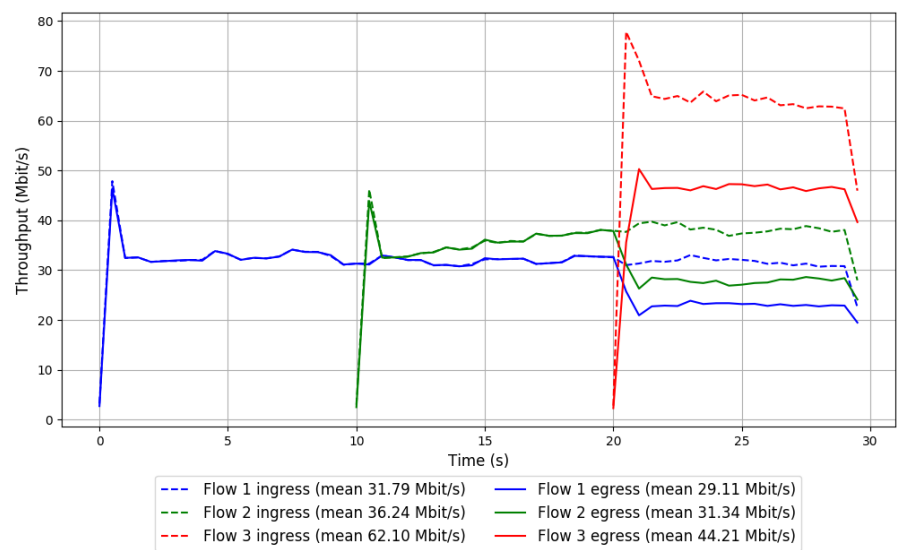


```
Run 1: Statistics of PCC

Start at: 2018-01-10 03:35:24
End at: 2018-01-10 03:35:54
Local clock offset: 0.062 ms
Remote clock offset: 2.021 ms

# Below is generated by plot.py at 2018-01-10 08:03:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 64.55 Mbit/s
95th percentile per-packet one-way delay: 67.217 ms
Loss rate: 15.36%
-- Flow 1:
Average throughput: 29.11 Mbit/s
95th percentile per-packet one-way delay: 63.046 ms
Loss rate: 8.34%
-- Flow 2:
Average throughput: 31.34 Mbit/s
95th percentile per-packet one-way delay: 66.967 ms
Loss rate: 13.39%
-- Flow 3:
Average throughput: 44.21 Mbit/s
95th percentile per-packet one-way delay: 69.490 ms
Loss rate: 28.60%
```

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2018-01-10 03:58:08

End at: 2018-01-10 03:58:38

Local clock offset: 0.175 ms

Remote clock offset: 2.183 ms

Below is generated by plot.py at 2018-01-10 08:04:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 83.97 Mbit/s

95th percentile per-packet one-way delay: 61.768 ms

Loss rate: 2.25%

-- Flow 1:

Average throughput: 68.36 Mbit/s

95th percentile per-packet one-way delay: 60.312 ms

Loss rate: 2.19%

-- Flow 2:

Average throughput: 19.48 Mbit/s

95th percentile per-packet one-way delay: 64.406 ms

Loss rate: 2.03%

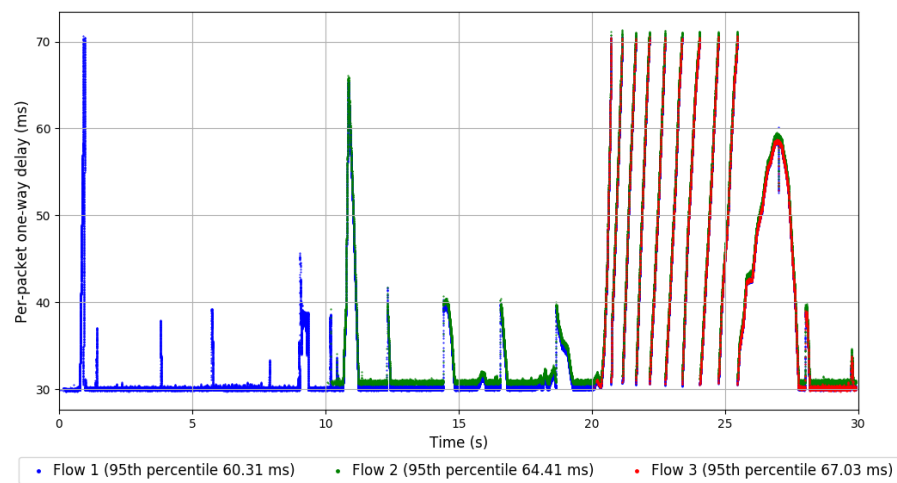
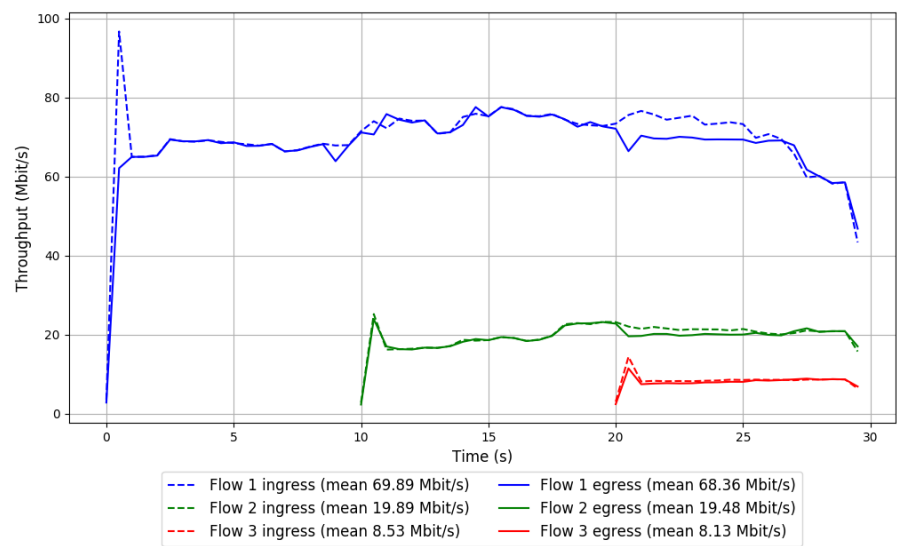
-- Flow 3:

Average throughput: 8.13 Mbit/s

95th percentile per-packet one-way delay: 67.028 ms

Loss rate: 4.70%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2018-01-10 04:20:22

End at: 2018-01-10 04:20:52

Local clock offset: 0.454 ms

Remote clock offset: 2.185 ms

Below is generated by plot.py at 2018-01-10 08:04:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.71 Mbit/s

95th percentile per-packet one-way delay: 50.847 ms

Loss rate: 1.00%

-- Flow 1:

Average throughput: 83.94 Mbit/s

95th percentile per-packet one-way delay: 50.527 ms

Loss rate: 1.02%

-- Flow 2:

Average throughput: 4.62 Mbit/s

95th percentile per-packet one-way delay: 53.215 ms

Loss rate: 0.54%

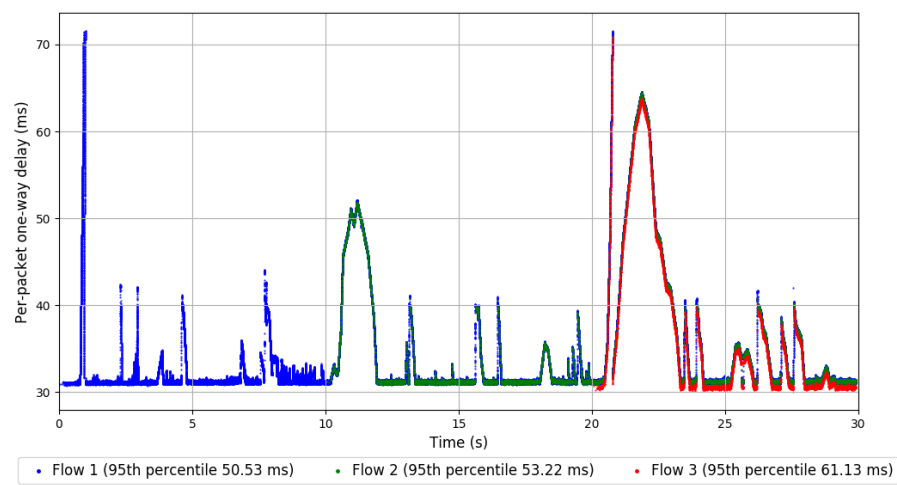
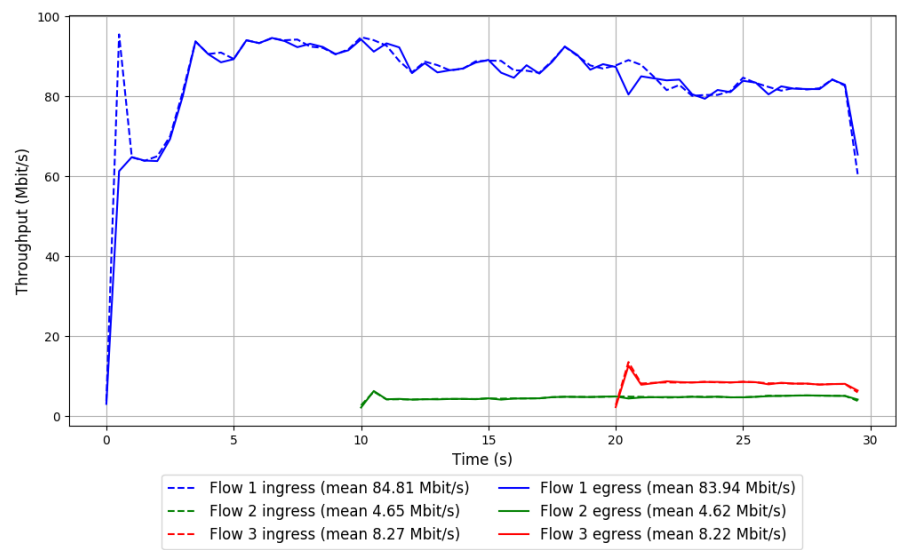
-- Flow 3:

Average throughput: 8.22 Mbit/s

95th percentile per-packet one-way delay: 61.127 ms

Loss rate: 0.69%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2018-01-10 04:41:34

End at: 2018-01-10 04:42:04

Local clock offset: 0.54 ms

Remote clock offset: 1.184 ms

Below is generated by plot.py at 2018-01-10 08:05:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.62 Mbit/s

95th percentile per-packet one-way delay: 51.689 ms

Loss rate: 0.91%

-- Flow 1:

Average throughput: 80.38 Mbit/s

95th percentile per-packet one-way delay: 51.653 ms

Loss rate: 0.94%

-- Flow 2:

Average throughput: 4.97 Mbit/s

95th percentile per-packet one-way delay: 55.365 ms

Loss rate: 0.41%

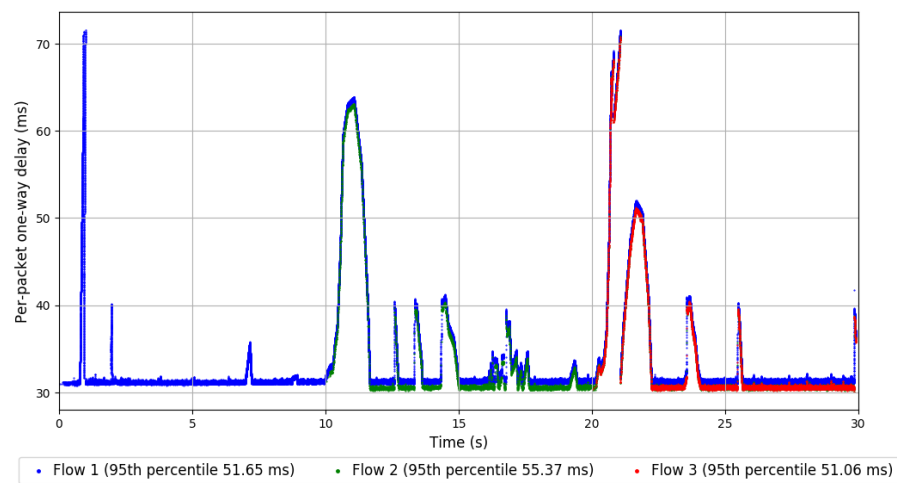
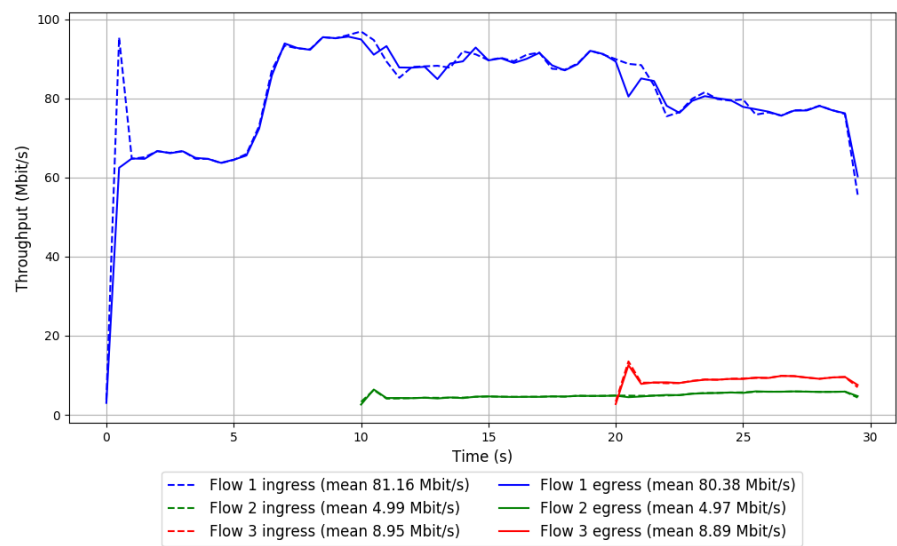
-- Flow 3:

Average throughput: 8.89 Mbit/s

95th percentile per-packet one-way delay: 51.057 ms

Loss rate: 0.67%

Run 4: Report of PCC — Data Link

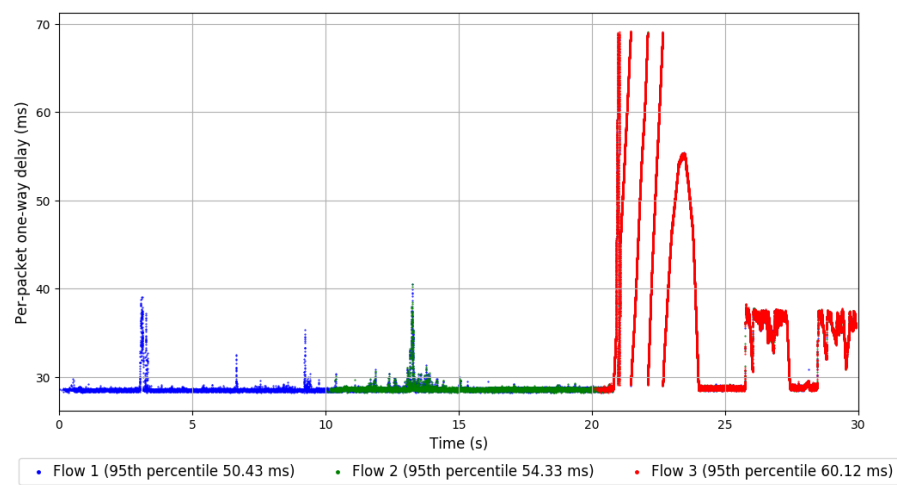
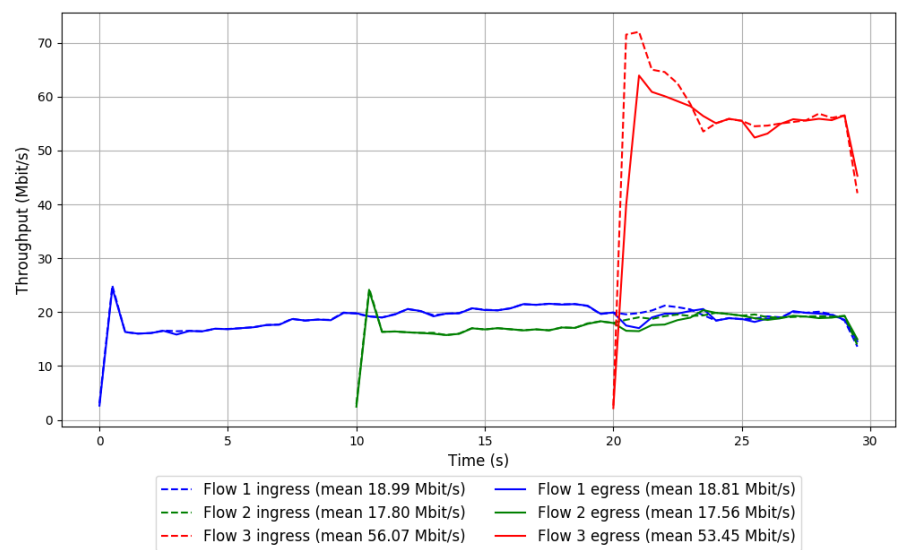


Run 5: Statistics of PCC

Start at: 2018-01-10 05:03:43
End at: 2018-01-10 05:04:13
Local clock offset: 0.567 ms
Remote clock offset: -1.477 ms

Below is generated by plot.py at 2018-01-10 08:05:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 48.10 Mbit/s
95th percentile per-packet one-way delay: 55.128 ms
Loss rate: 2.40%
-- Flow 1:
Average throughput: 18.81 Mbit/s
95th percentile per-packet one-way delay: 50.429 ms
Loss rate: 0.91%
-- Flow 2:
Average throughput: 17.56 Mbit/s
95th percentile per-packet one-way delay: 54.334 ms
Loss rate: 1.33%
-- Flow 3:
Average throughput: 53.45 Mbit/s
95th percentile per-packet one-way delay: 60.124 ms
Loss rate: 4.62%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2018-01-10 05:30:08

End at: 2018-01-10 05:30:38

Local clock offset: 0.364 ms

Remote clock offset: 1.436 ms

Below is generated by plot.py at 2018-01-10 08:05:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.18 Mbit/s

95th percentile per-packet one-way delay: 57.075 ms

Loss rate: 1.31%

-- Flow 1:

Average throughput: 58.19 Mbit/s

95th percentile per-packet one-way delay: 55.733 ms

Loss rate: 1.44%

-- Flow 2:

Average throughput: 37.02 Mbit/s

95th percentile per-packet one-way delay: 59.016 ms

Loss rate: 1.09%

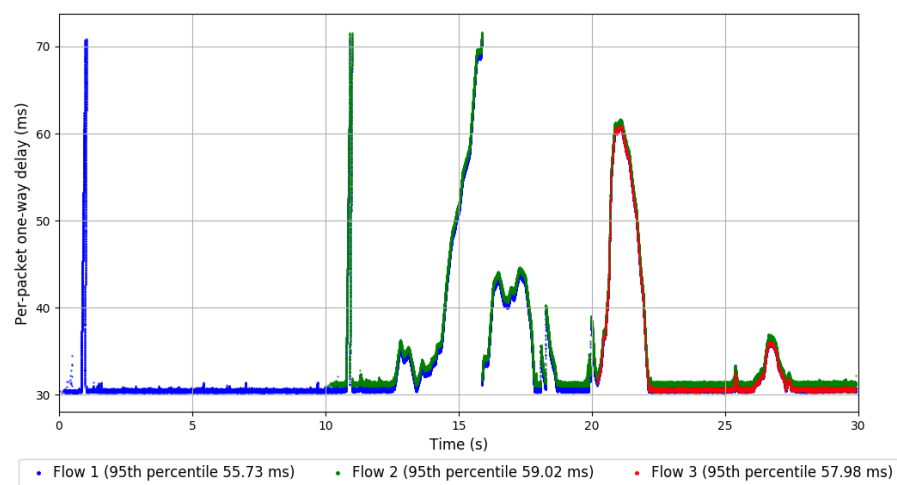
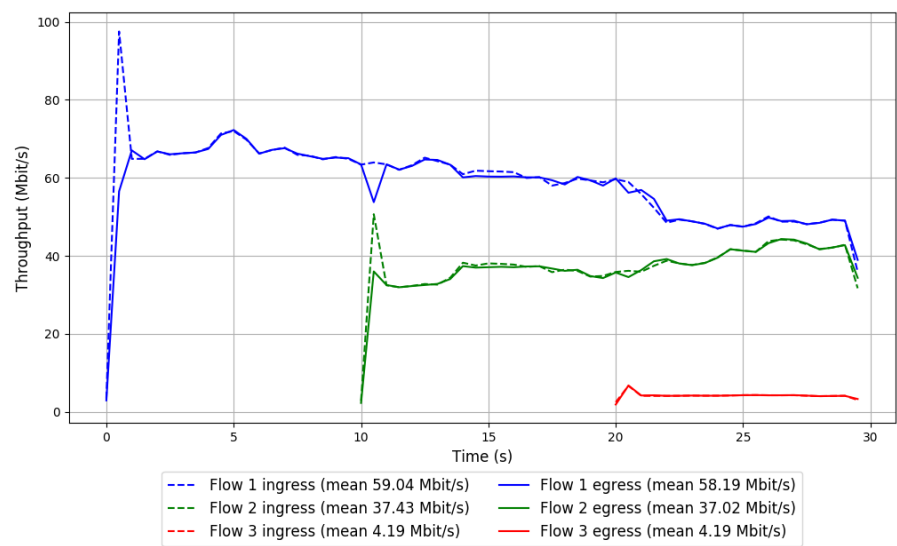
-- Flow 3:

Average throughput: 4.19 Mbit/s

95th percentile per-packet one-way delay: 57.977 ms

Loss rate: 0.00%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2018-01-10 05:57:24

End at: 2018-01-10 05:57:54

Local clock offset: 0.029 ms

Remote clock offset: 0.492 ms

Below is generated by plot.py at 2018-01-10 08:05:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 51.65 Mbit/s

95th percentile per-packet one-way delay: 31.032 ms

Loss rate: 1.42%

-- Flow 1:

Average throughput: 9.54 Mbit/s

95th percentile per-packet one-way delay: 30.370 ms

Loss rate: 0.28%

-- Flow 2:

Average throughput: 61.24 Mbit/s

95th percentile per-packet one-way delay: 31.048 ms

Loss rate: 1.72%

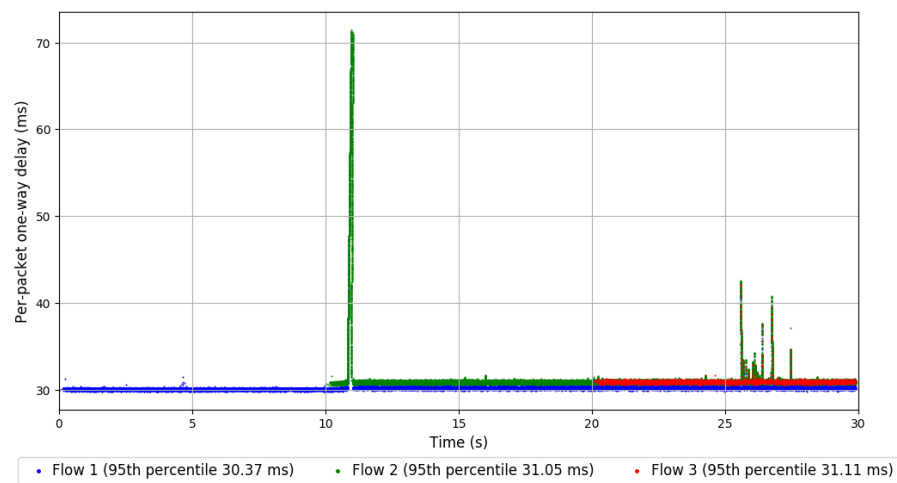
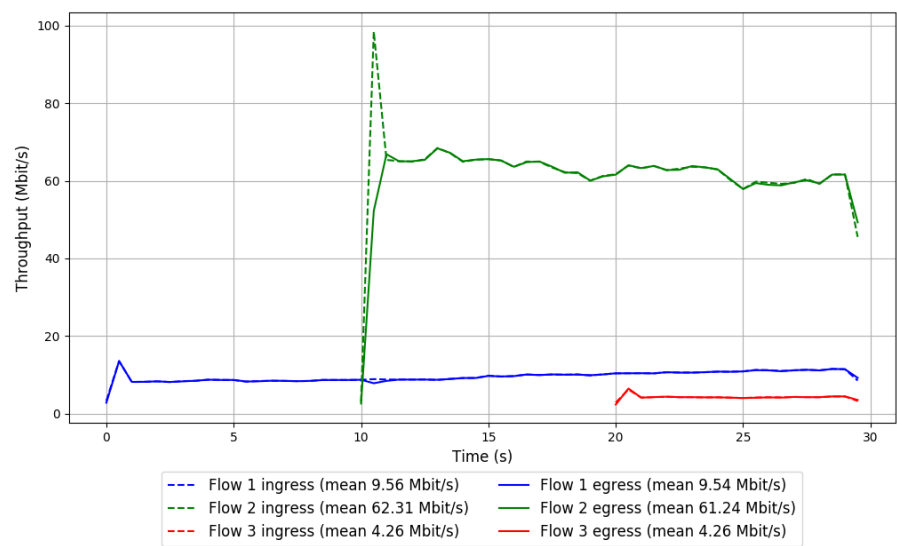
-- Flow 3:

Average throughput: 4.26 Mbit/s

95th percentile per-packet one-way delay: 31.114 ms

Loss rate: 0.14%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2018-01-10 06:22:39

End at: 2018-01-10 06:23:09

Local clock offset: 0.189 ms

Remote clock offset: -2.32 ms

Below is generated by plot.py at 2018-01-10 08:05:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 14.88 Mbit/s

95th percentile per-packet one-way delay: 28.640 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 3.92 Mbit/s

95th percentile per-packet one-way delay: 28.017 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 14.43 Mbit/s

95th percentile per-packet one-way delay: 28.678 ms

Loss rate: 0.00%

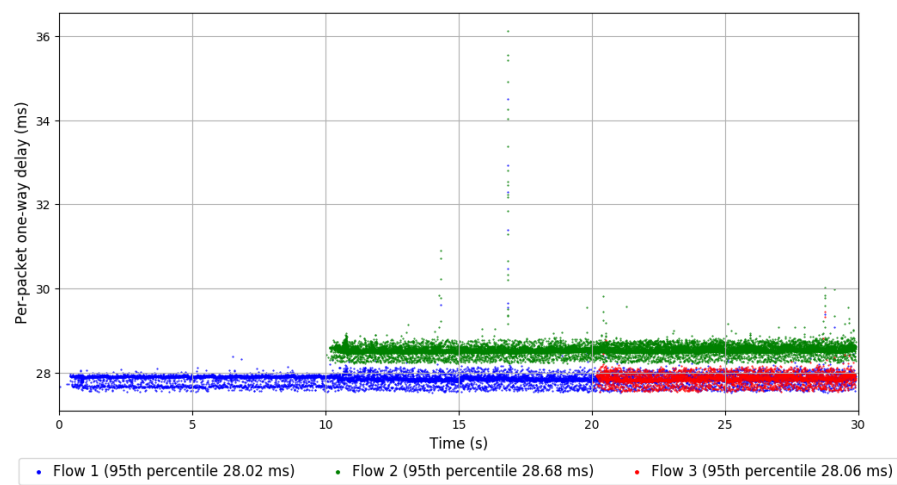
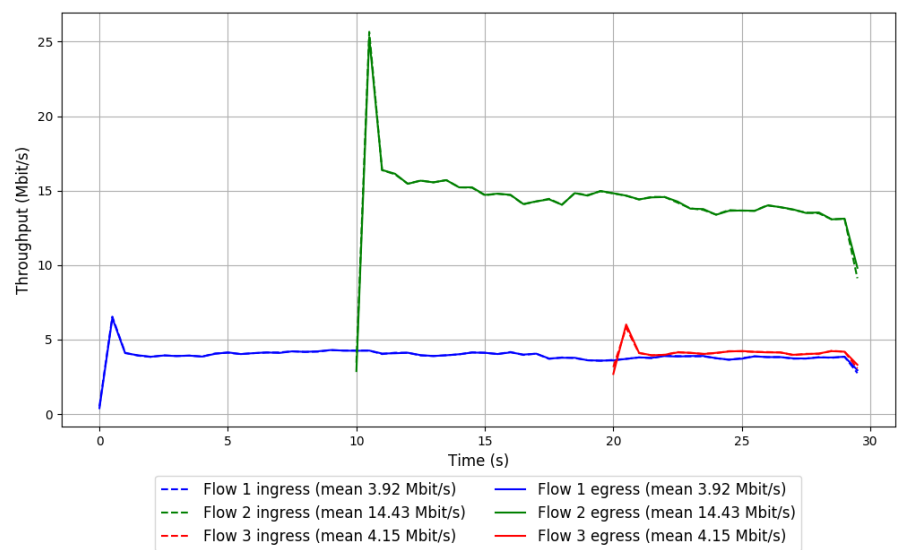
-- Flow 3:

Average throughput: 4.15 Mbit/s

95th percentile per-packet one-way delay: 28.059 ms

Loss rate: 0.00%

Run 8: Report of PCC — Data Link

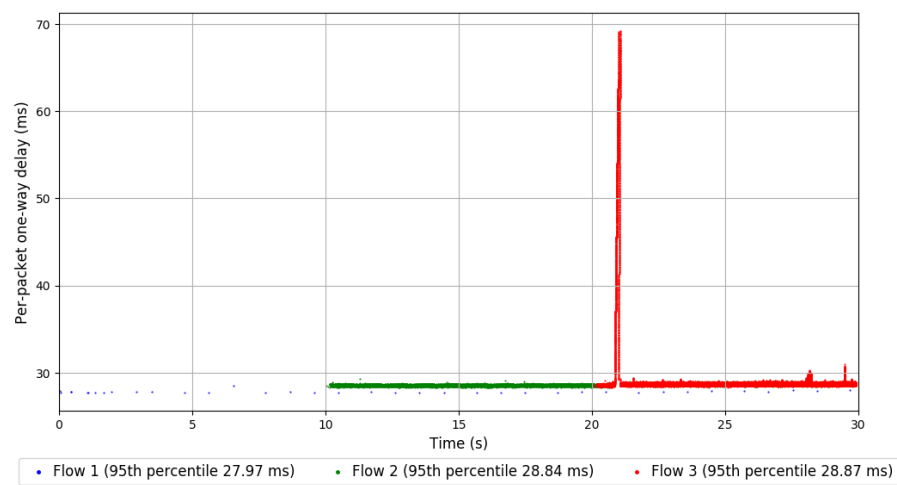
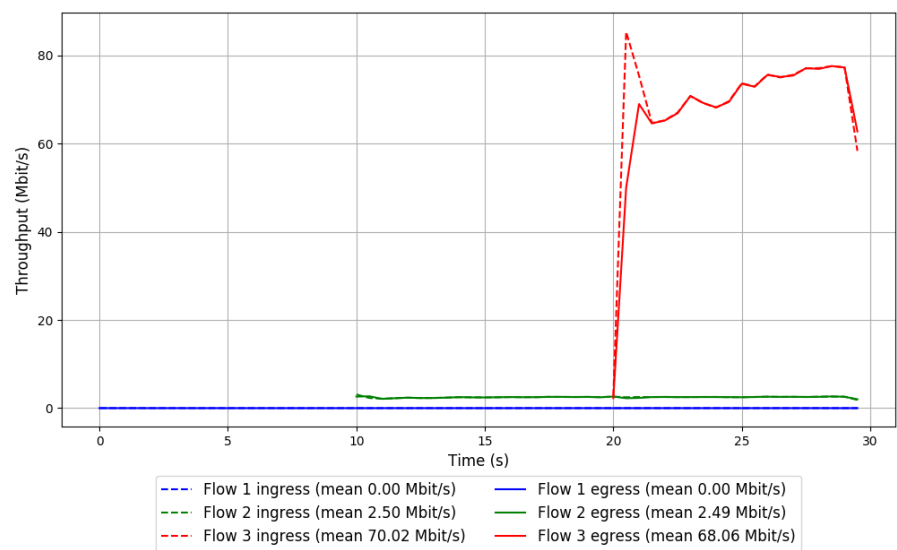


Run 9: Statistics of PCC

Start at: 2018-01-10 06:48:00
End at: 2018-01-10 06:48:30
Local clock offset: 0.263 ms
Remote clock offset: -2.905 ms

Below is generated by plot.py at 2018-01-10 08:05:32
Datalink statistics
-- Total of 3 flows:
Average throughput: 24.10 Mbit/s
95th percentile per-packet one-way delay: 28.864 ms
Loss rate: 2.65%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 27.974 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 2.49 Mbit/s
95th percentile per-packet one-way delay: 28.844 ms
Loss rate: 0.42%
-- Flow 3:
Average throughput: 68.06 Mbit/s
95th percentile per-packet one-way delay: 28.868 ms
Loss rate: 2.81%

Run 9: Report of PCC — Data Link

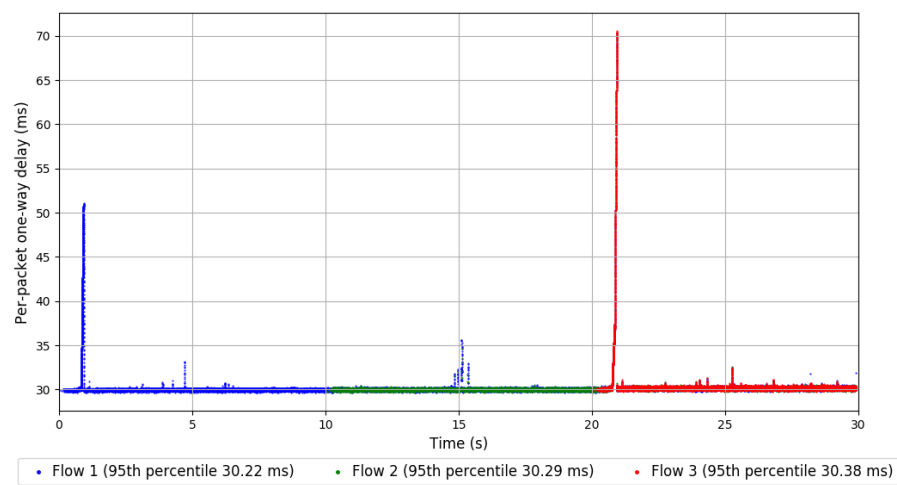
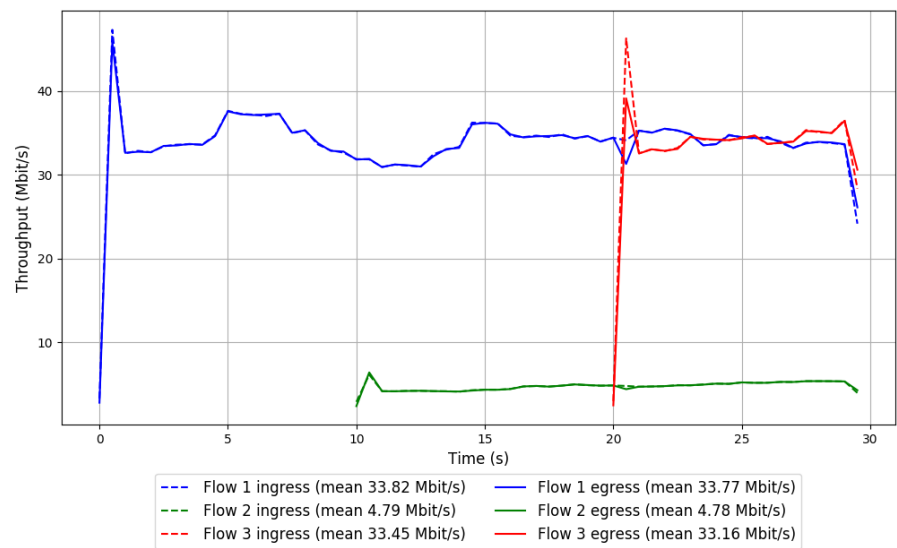


Run 10: Statistics of PCC

Start at: 2018-01-10 07:13:17
End at: 2018-01-10 07:13:47
Local clock offset: 0.06 ms
Remote clock offset: -2.843 ms

Below is generated by plot.py at 2018-01-10 08:05:32
Datalink statistics
-- Total of 3 flows:
Average throughput: 47.88 Mbit/s
95th percentile per-packet one-way delay: 30.267 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 33.77 Mbit/s
95th percentile per-packet one-way delay: 30.216 ms
Loss rate: 0.14%
-- Flow 2:
Average throughput: 4.78 Mbit/s
95th percentile per-packet one-way delay: 30.286 ms
Loss rate: 0.22%
-- Flow 3:
Average throughput: 33.16 Mbit/s
95th percentile per-packet one-way delay: 30.375 ms
Loss rate: 0.87%

Run 10: Report of PCC — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2018-01-10 03:41:24

End at: 2018-01-10 03:41:54

Local clock offset: -0.022 ms

Remote clock offset: 1.654 ms

Below is generated by plot.py at 2018-01-10 08:06:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.92 Mbit/s

95th percentile per-packet one-way delay: 66.519 ms

Loss rate: 1.95%

-- Flow 1:

Average throughput: 52.73 Mbit/s

95th percentile per-packet one-way delay: 66.344 ms

Loss rate: 1.85%

-- Flow 2:

Average throughput: 35.90 Mbit/s

95th percentile per-packet one-way delay: 66.740 ms

Loss rate: 2.27%

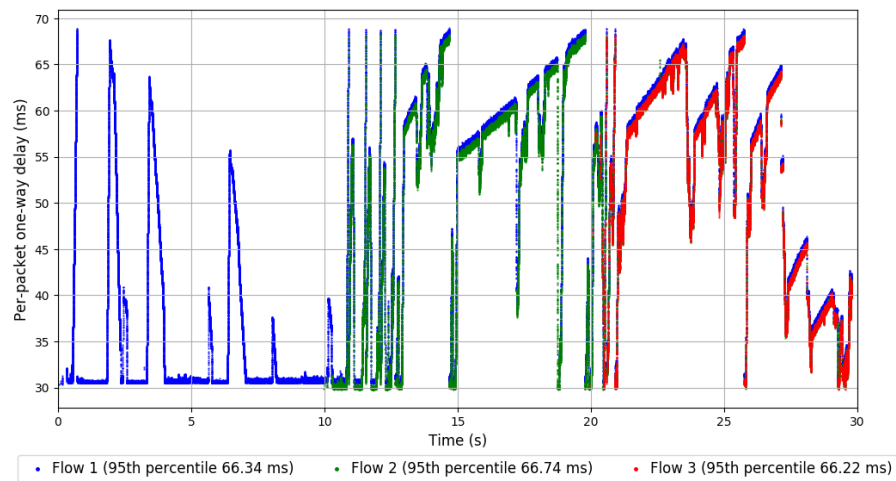
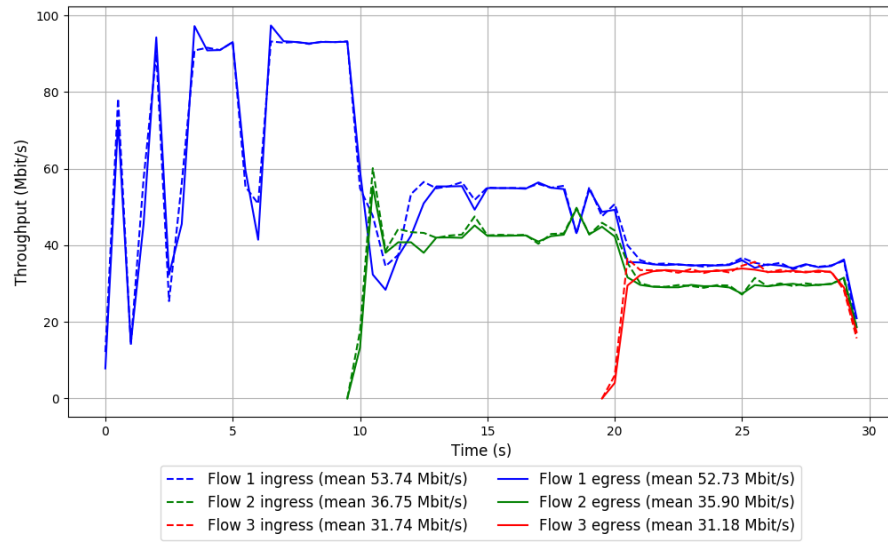
-- Flow 3:

Average throughput: 31.18 Mbit/s

95th percentile per-packet one-way delay: 66.222 ms

Loss rate: 1.67%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-01-10 04:04:00

End at: 2018-01-10 04:04:30

Local clock offset: 0.282 ms

Remote clock offset: 2.155 ms

Below is generated by plot.py at 2018-01-10 08:06:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.50 Mbit/s

95th percentile per-packet one-way delay: 67.562 ms

Loss rate: 1.59%

-- Flow 1:

Average throughput: 63.52 Mbit/s

95th percentile per-packet one-way delay: 67.387 ms

Loss rate: 1.64%

-- Flow 2:

Average throughput: 26.12 Mbit/s

95th percentile per-packet one-way delay: 67.766 ms

Loss rate: 1.33%

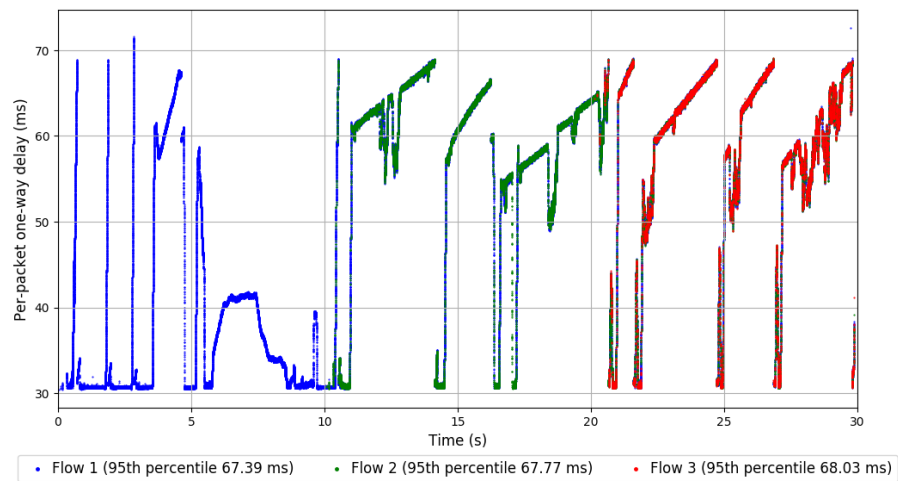
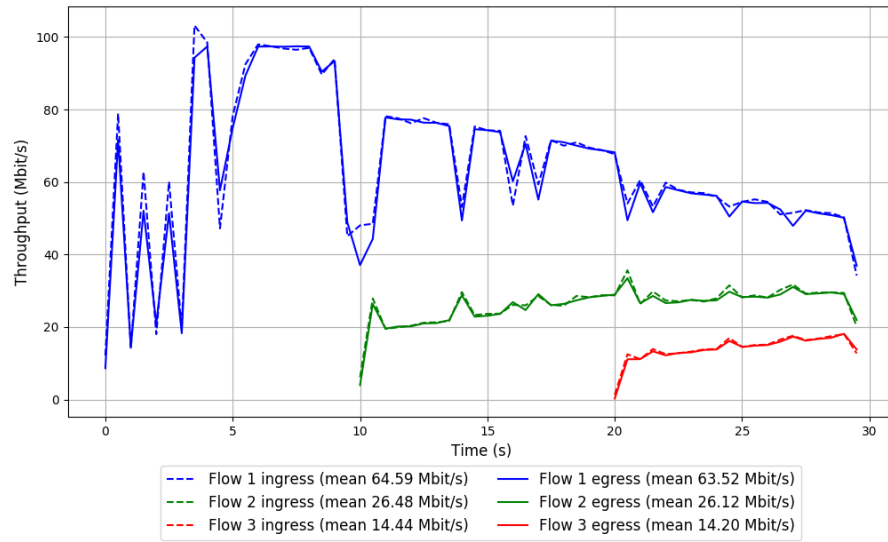
-- Flow 3:

Average throughput: 14.20 Mbit/s

95th percentile per-packet one-way delay: 68.032 ms

Loss rate: 1.87%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-01-10 04:25:59

End at: 2018-01-10 04:26:29

Local clock offset: 0.501 ms

Remote clock offset: 1.615 ms

Below is generated by plot.py at 2018-01-10 08:07:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.14 Mbit/s

95th percentile per-packet one-way delay: 64.021 ms

Loss rate: 1.73%

-- Flow 1:

Average throughput: 57.86 Mbit/s

95th percentile per-packet one-way delay: 63.926 ms

Loss rate: 1.87%

-- Flow 2:

Average throughput: 33.43 Mbit/s

95th percentile per-packet one-way delay: 63.665 ms

Loss rate: 1.54%

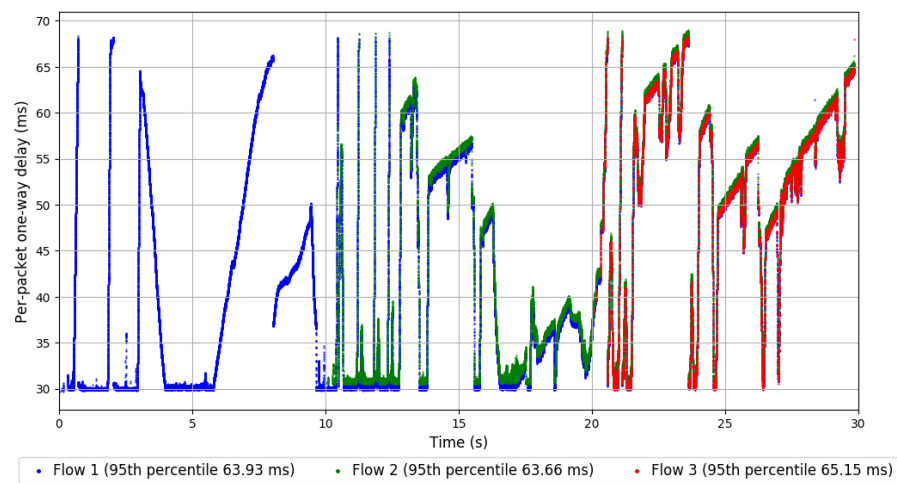
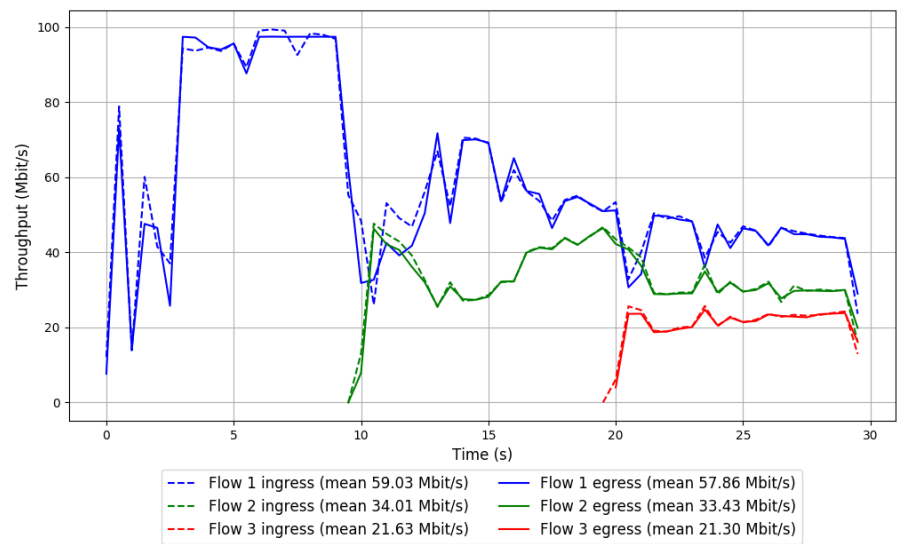
-- Flow 3:

Average throughput: 21.30 Mbit/s

95th percentile per-packet one-way delay: 65.150 ms

Loss rate: 1.22%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-01-10 04:47:09

End at: 2018-01-10 04:47:39

Local clock offset: 0.576 ms

Remote clock offset: 0.977 ms

Below is generated by plot.py at 2018-01-10 08:07:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 82.88 Mbit/s

95th percentile per-packet one-way delay: 67.506 ms

Loss rate: 1.28%

-- Flow 1:

Average throughput: 49.50 Mbit/s

95th percentile per-packet one-way delay: 67.358 ms

Loss rate: 1.04%

-- Flow 2:

Average throughput: 44.21 Mbit/s

95th percentile per-packet one-way delay: 67.708 ms

Loss rate: 1.69%

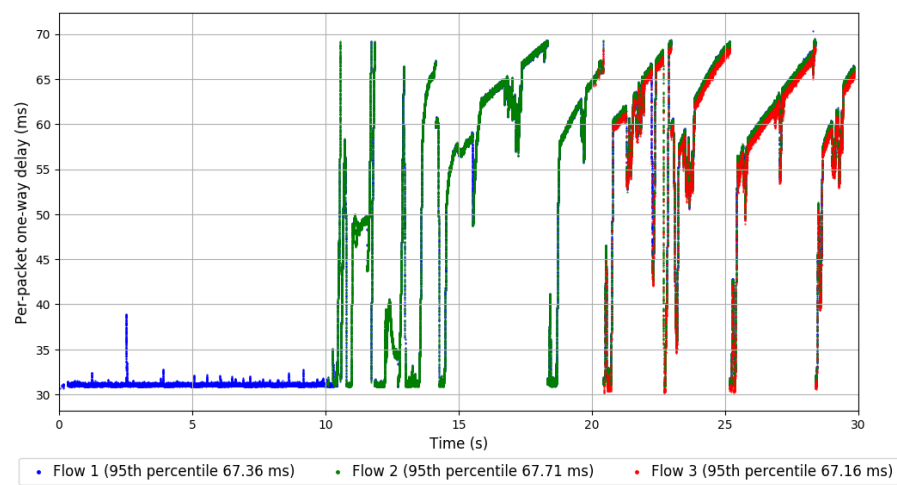
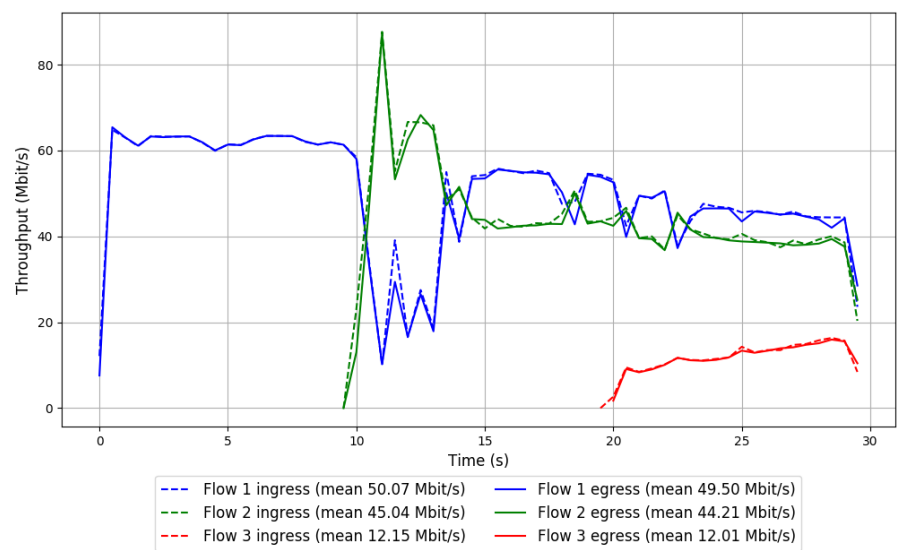
-- Flow 3:

Average throughput: 12.01 Mbit/s

95th percentile per-packet one-way delay: 67.163 ms

Loss rate: 1.16%

Run 4: Report of QUIC Cubic — Data Link

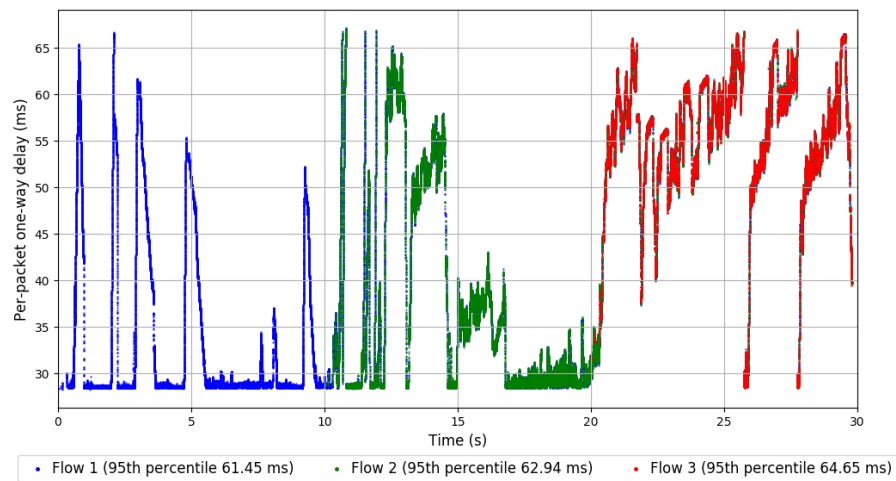
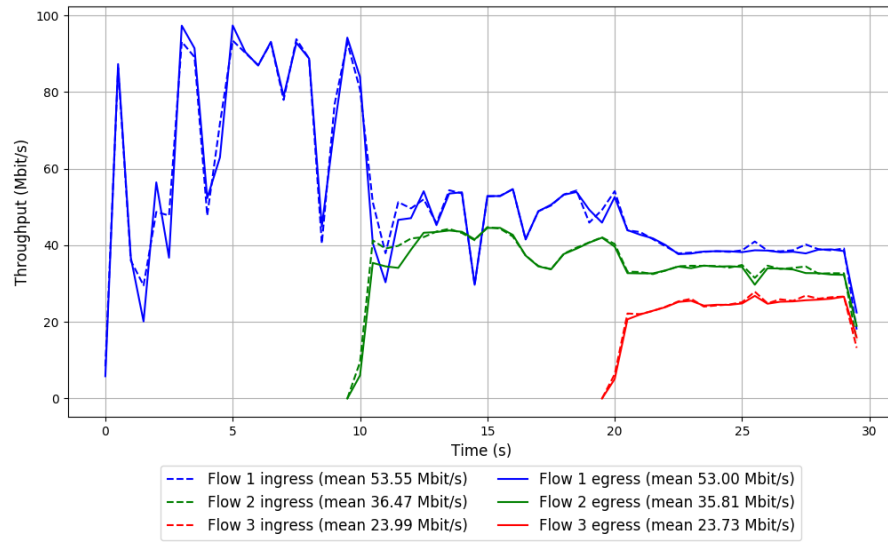


Run 5: Statistics of QUIC Cubic

Start at: 2018-01-10 05:09:53
End at: 2018-01-10 05:10:23
Local clock offset: 0.5 ms
Remote clock offset: -1.476 ms

Below is generated by plot.py at 2018-01-10 08:07:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 84.66 Mbit/s
95th percentile per-packet one-way delay: 62.378 ms
Loss rate: 1.22%
-- Flow 1:
Average throughput: 53.00 Mbit/s
95th percentile per-packet one-way delay: 61.453 ms
Loss rate: 1.00%
-- Flow 2:
Average throughput: 35.81 Mbit/s
95th percentile per-packet one-way delay: 62.943 ms
Loss rate: 1.76%
-- Flow 3:
Average throughput: 23.73 Mbit/s
95th percentile per-packet one-way delay: 64.651 ms
Loss rate: 1.01%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-01-10 05:36:58

End at: 2018-01-10 05:37:28

Local clock offset: 0.272 ms

Remote clock offset: 0.916 ms

Below is generated by plot.py at 2018-01-10 08:08:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.50 Mbit/s

95th percentile per-packet one-way delay: 64.063 ms

Loss rate: 1.18%

-- Flow 1:

Average throughput: 58.10 Mbit/s

95th percentile per-packet one-way delay: 63.432 ms

Loss rate: 1.11%

-- Flow 2:

Average throughput: 31.14 Mbit/s

95th percentile per-packet one-way delay: 64.361 ms

Loss rate: 1.52%

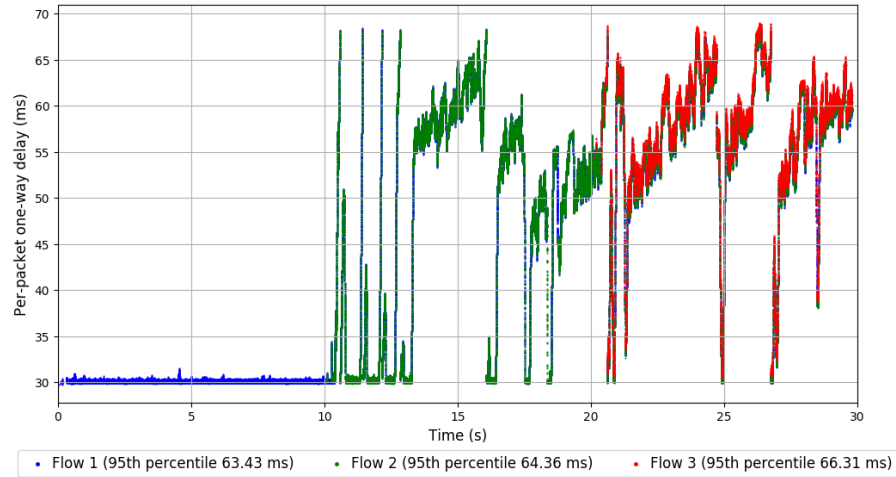
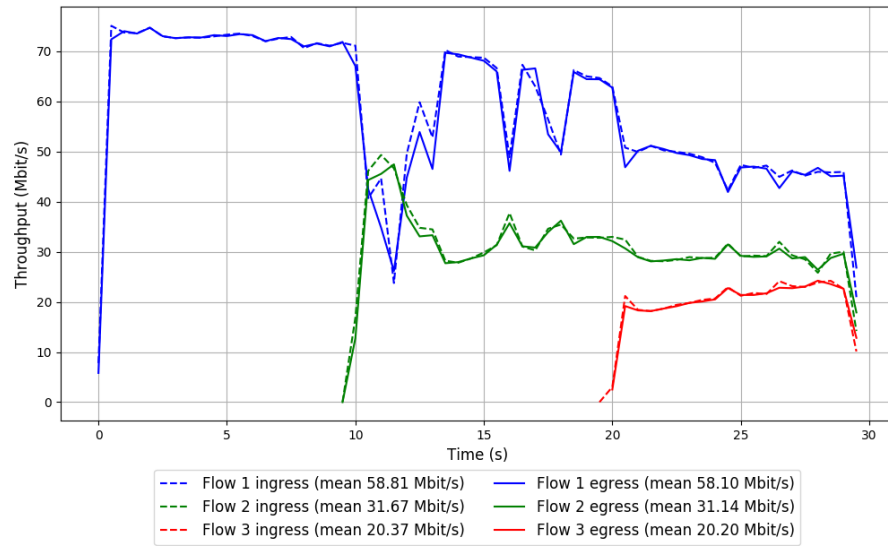
-- Flow 3:

Average throughput: 20.20 Mbit/s

95th percentile per-packet one-way delay: 66.306 ms

Loss rate: 0.73%

Run 6: Report of QUIC Cubic — Data Link

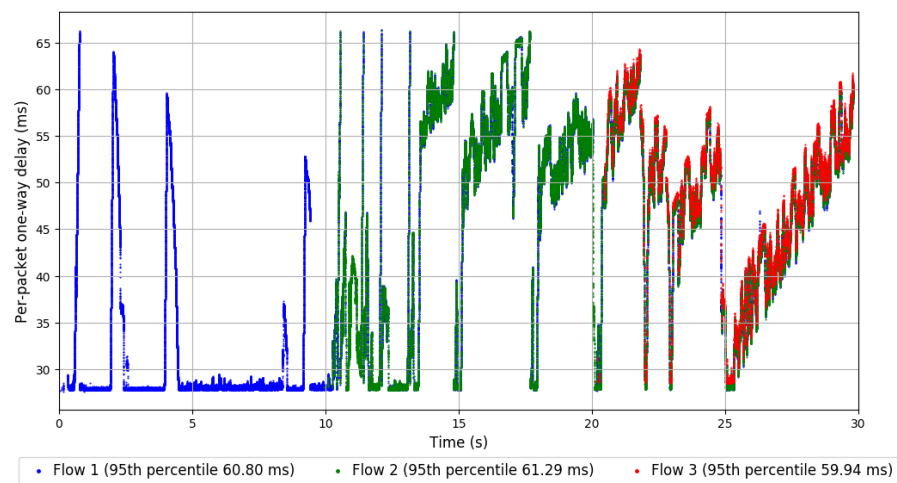
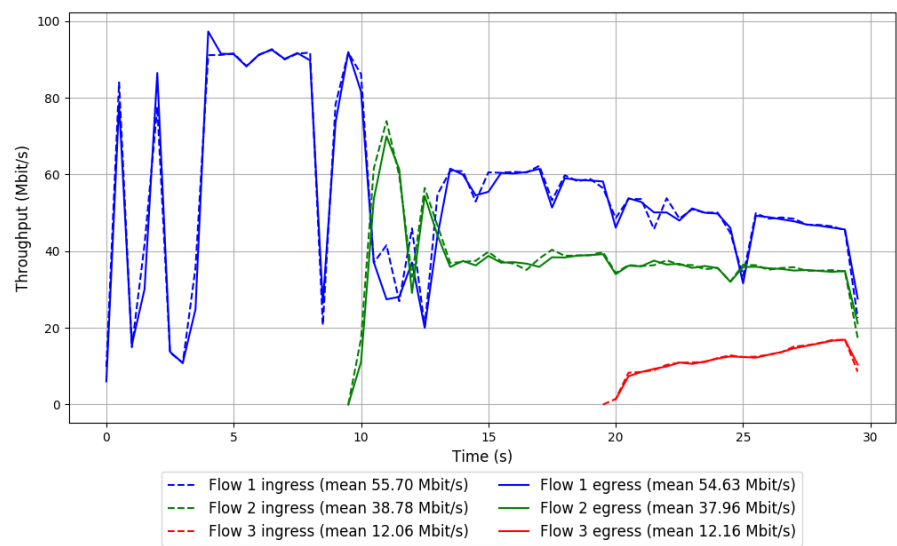


Run 7: Statistics of QUIC Cubic

Start at: 2018-01-10 06:03:40
End at: 2018-01-10 06:04:10
Local clock offset: 0.007 ms
Remote clock offset: -1.891 ms

Below is generated by plot.py at 2018-01-10 08:08:11
Datalink statistics
-- Total of 3 flows:
Average throughput: 83.88 Mbit/s
95th percentile per-packet one-way delay: 60.903 ms
Loss rate: 1.79%
-- Flow 1:
Average throughput: 54.63 Mbit/s
95th percentile per-packet one-way delay: 60.796 ms
Loss rate: 1.81%
-- Flow 2:
Average throughput: 37.96 Mbit/s
95th percentile per-packet one-way delay: 61.290 ms
Loss rate: 1.96%
-- Flow 3:
Average throughput: 12.16 Mbit/s
95th percentile per-packet one-way delay: 59.942 ms
Loss rate: 0.39%

Run 7: Report of QUIC Cubic — Data Link

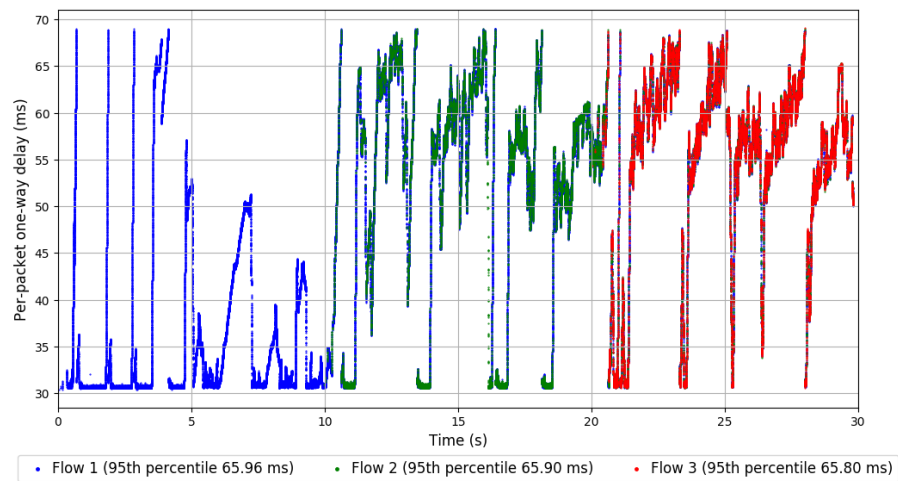
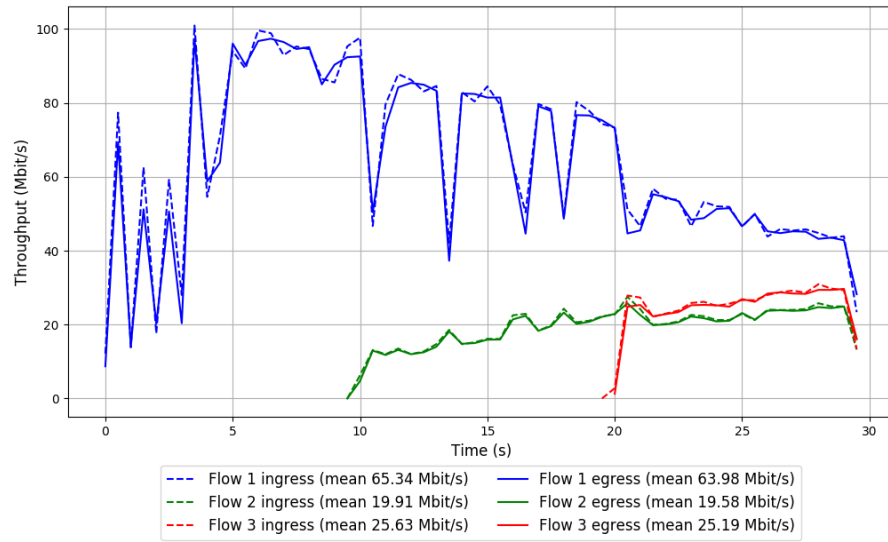


Run 8: Statistics of QUIC Cubic

Start at: 2018-01-10 06:28:54
End at: 2018-01-10 06:29:24
Local clock offset: 0.232 ms
Remote clock offset: -0.294 ms

Below is generated by plot.py at 2018-01-10 08:08:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 85.28 Mbit/s
95th percentile per-packet one-way delay: 65.929 ms
Loss rate: 1.93%
-- Flow 1:
Average throughput: 63.98 Mbit/s
95th percentile per-packet one-way delay: 65.962 ms
Loss rate: 2.01%
-- Flow 2:
Average throughput: 19.58 Mbit/s
95th percentile per-packet one-way delay: 65.903 ms
Loss rate: 1.59%
-- Flow 3:
Average throughput: 25.19 Mbit/s
95th percentile per-packet one-way delay: 65.801 ms
Loss rate: 1.77%

Run 8: Report of QUIC Cubic — Data Link

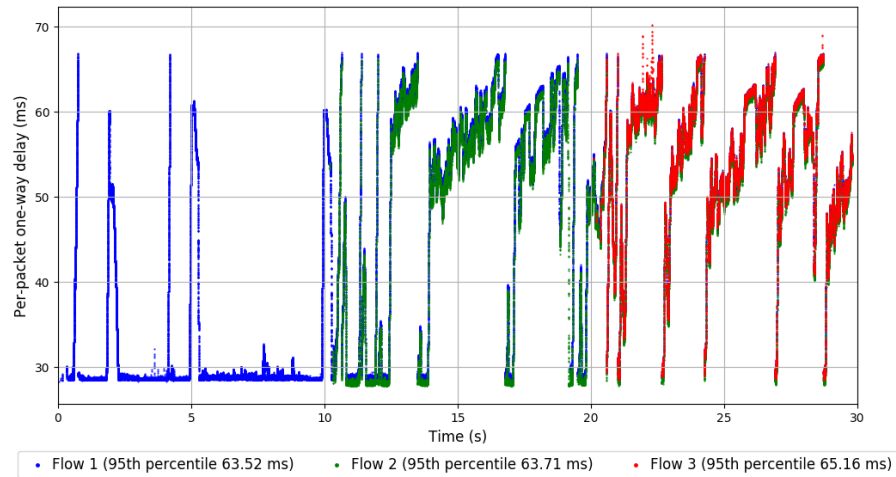
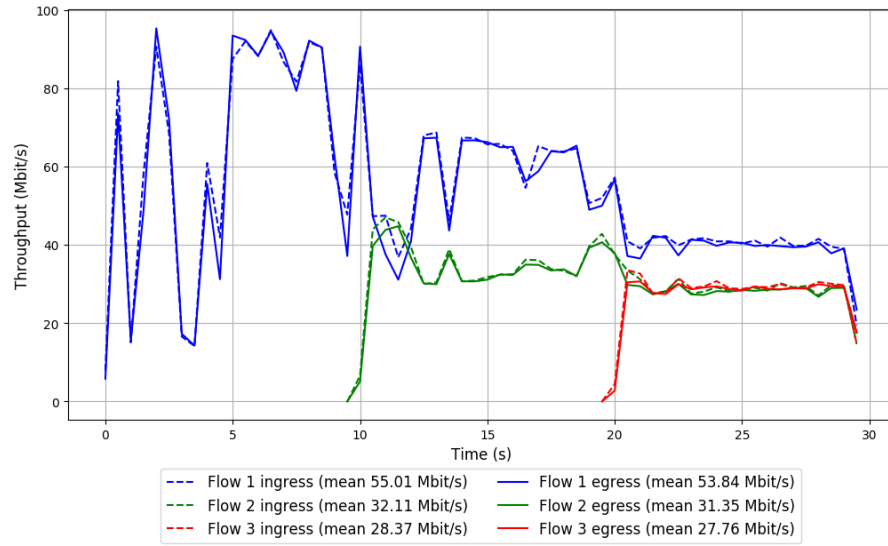


Run 9: Statistics of QUIC Cubic

Start at: 2018-01-10 06:54:14
End at: 2018-01-10 06:54:44
Local clock offset: 0.131 ms
Remote clock offset: -3.434 ms

Below is generated by plot.py at 2018-01-10 08:09:44
Datalink statistics
-- Total of 3 flows:
Average throughput: 83.84 Mbit/s
95th percentile per-packet one-way delay: 63.753 ms
Loss rate: 2.13%
-- Flow 1:
Average throughput: 53.84 Mbit/s
95th percentile per-packet one-way delay: 63.518 ms
Loss rate: 2.04%
-- Flow 2:
Average throughput: 31.35 Mbit/s
95th percentile per-packet one-way delay: 63.706 ms
Loss rate: 2.37%
-- Flow 3:
Average throughput: 27.76 Mbit/s
95th percentile per-packet one-way delay: 65.162 ms
Loss rate: 2.12%

Run 9: Report of QUIC Cubic — Data Link

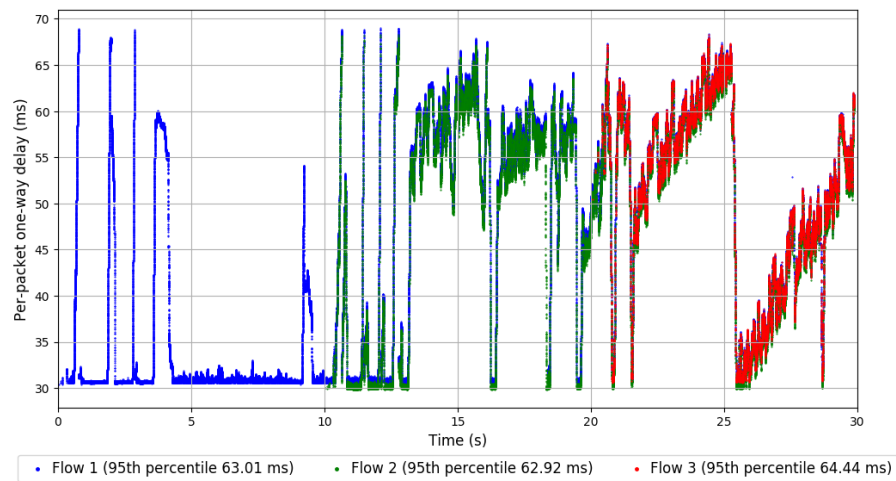
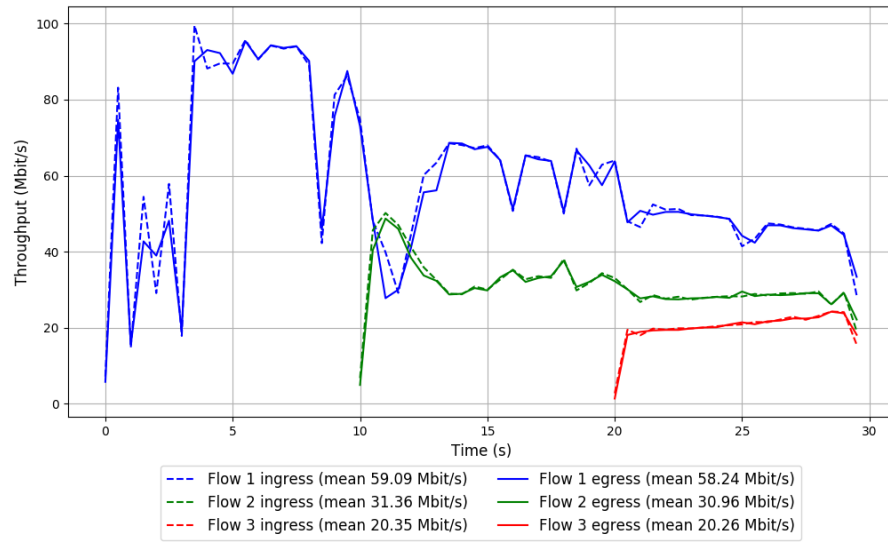


Run 10: Statistics of QUIC Cubic

Start at: 2018-01-10 07:19:52
End at: 2018-01-10 07:20:22
Local clock offset: 0.057 ms
Remote clock offset: -3.319 ms

Below is generated by plot.py at 2018-01-10 08:09:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 85.47 Mbit/s
95th percentile per-packet one-way delay: 63.138 ms
Loss rate: 1.20%
-- Flow 1:
Average throughput: 58.24 Mbit/s
95th percentile per-packet one-way delay: 63.011 ms
Loss rate: 1.33%
-- Flow 2:
Average throughput: 30.96 Mbit/s
95th percentile per-packet one-way delay: 62.922 ms
Loss rate: 1.12%
-- Flow 3:
Average throughput: 20.26 Mbit/s
95th percentile per-packet one-way delay: 64.436 ms
Loss rate: 0.32%

Run 10: Report of QUIC Cubic — Data Link

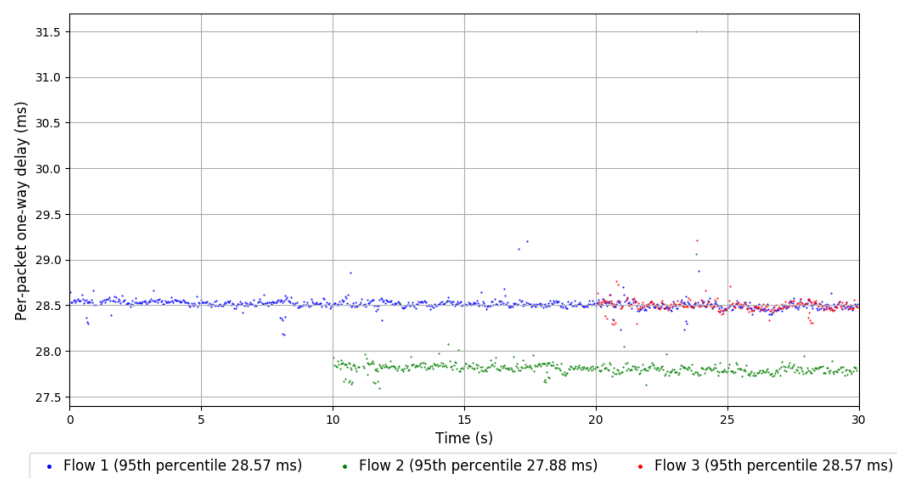
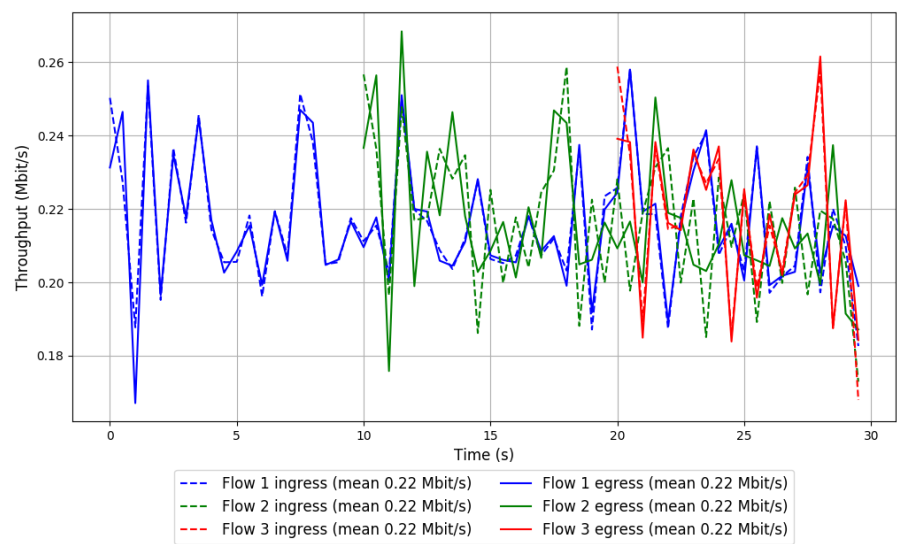


```
Run 1: Statistics of SReAM

Start at: 2018-01-10 03:32:35
End at: 2018-01-10 03:33:05
Local clock offset: 0.074 ms
Remote clock offset: -0.55 ms

# Below is generated by plot.py at 2018-01-10 08:09:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 28.563 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 28.572 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 27.880 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 28.571 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SReAM

Start at: 2018-01-10 03:55:19

End at: 2018-01-10 03:55:49

Local clock offset: 0.153 ms

Remote clock offset: 2.139 ms

Below is generated by plot.py at 2018-01-10 08:09:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.41 Mbit/s

95th percentile per-packet one-way delay: 30.760 ms

Loss rate: 0.16%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 30.772 ms

Loss rate: 0.16%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 30.104 ms

Loss rate: 0.00%

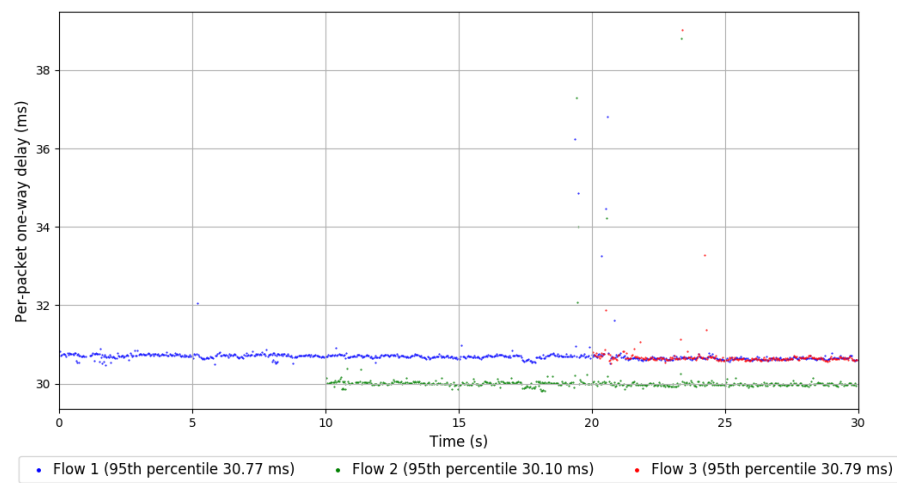
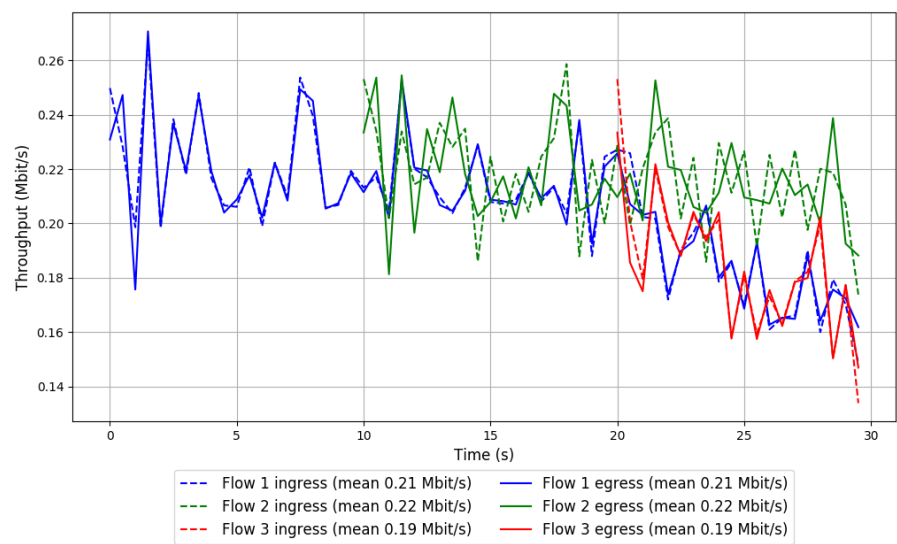
-- Flow 3:

Average throughput: 0.19 Mbit/s

95th percentile per-packet one-way delay: 30.786 ms

Loss rate: 0.53%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SReAM

Start at: 2018-01-10 04:17:33

End at: 2018-01-10 04:18:03

Local clock offset: 0.335 ms

Remote clock offset: 2.241 ms

Below is generated by plot.py at 2018-01-10 08:09:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 31.212 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 31.232 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 30.520 ms

Loss rate: 0.00%

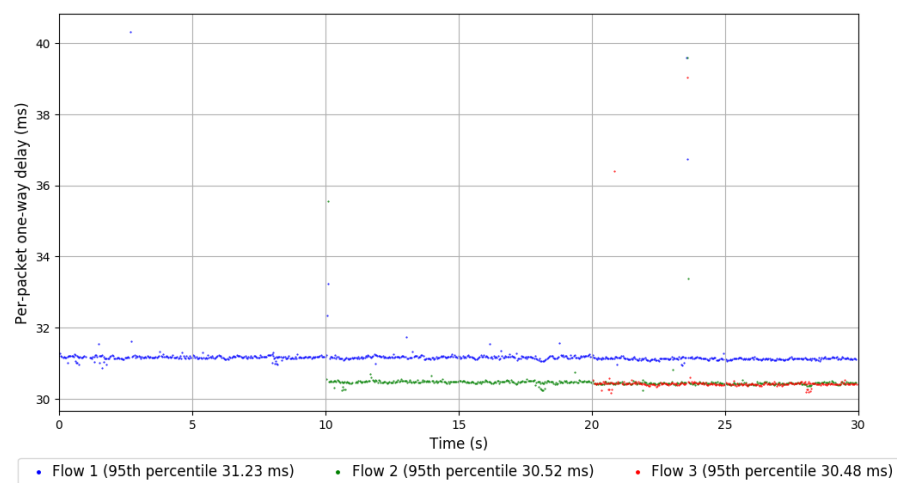
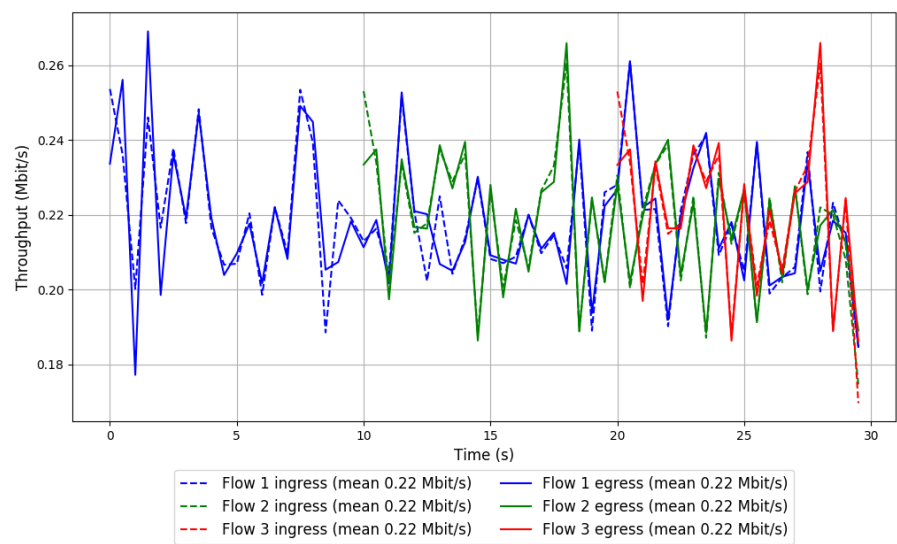
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 30.478 ms

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SReAM

Start at: 2018-01-10 04:38:47

End at: 2018-01-10 04:39:17

Local clock offset: 0.439 ms

Remote clock offset: 0.997 ms

Below is generated by plot.py at 2018-01-10 08:09:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 30.977 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 30.984 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 30.980 ms

Loss rate: 0.00%

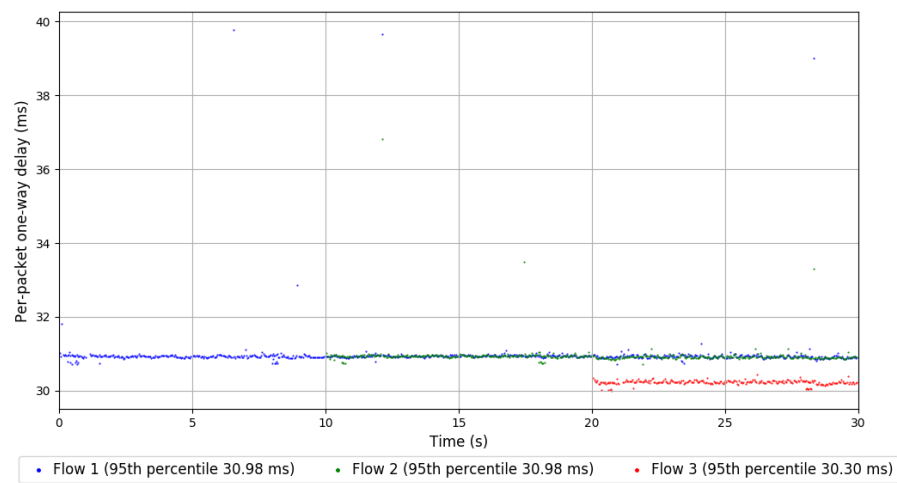
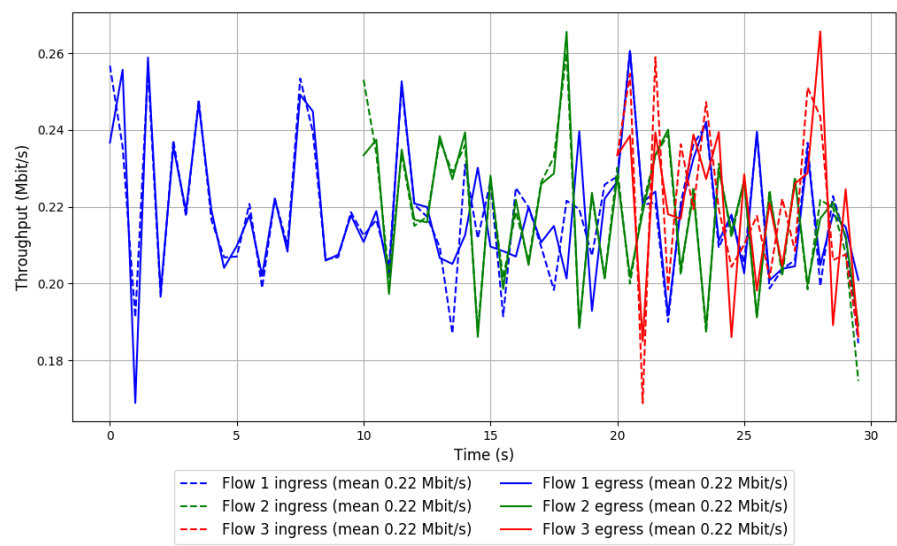
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 30.296 ms

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link

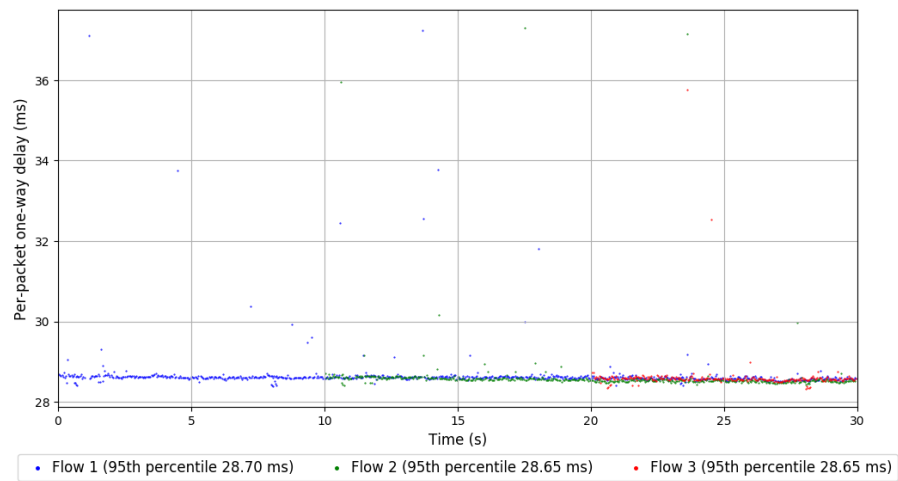
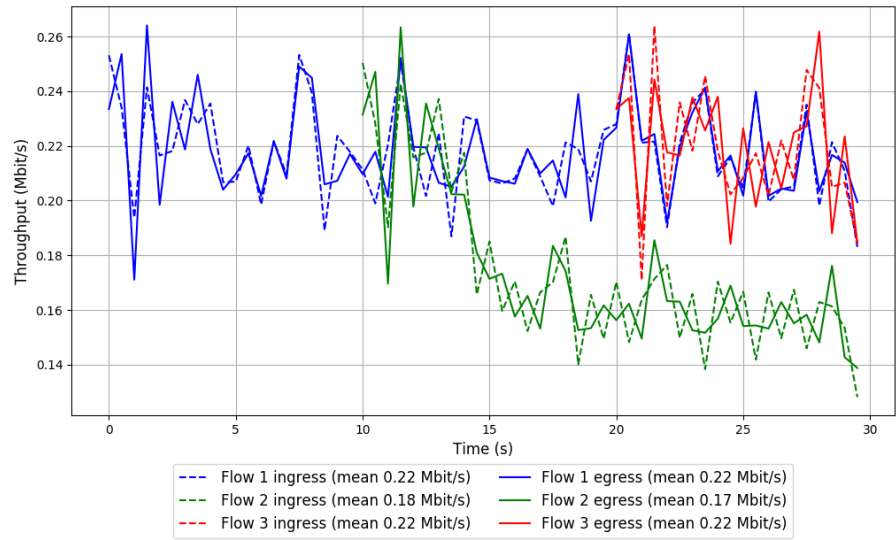


Run 5: Statistics of SReAM

Start at: 2018-01-10 05:00:53
End at: 2018-01-10 05:01:23
Local clock offset: 0.658 ms
Remote clock offset: -1.484 ms

Below is generated by plot.py at 2018-01-10 08:09:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.41 Mbit/s
95th percentile per-packet one-way delay: 28.680 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 28.696 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 28.650 ms
Loss rate: 0.27%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 28.654 ms
Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SReAM

Start at: 2018-01-10 05:27:18

End at: 2018-01-10 05:27:48

Local clock offset: 0.428 ms

Remote clock offset: -1.13 ms

Below is generated by plot.py at 2018-01-10 08:09:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 28.619 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 28.624 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 28.611 ms

Loss rate: 0.00%

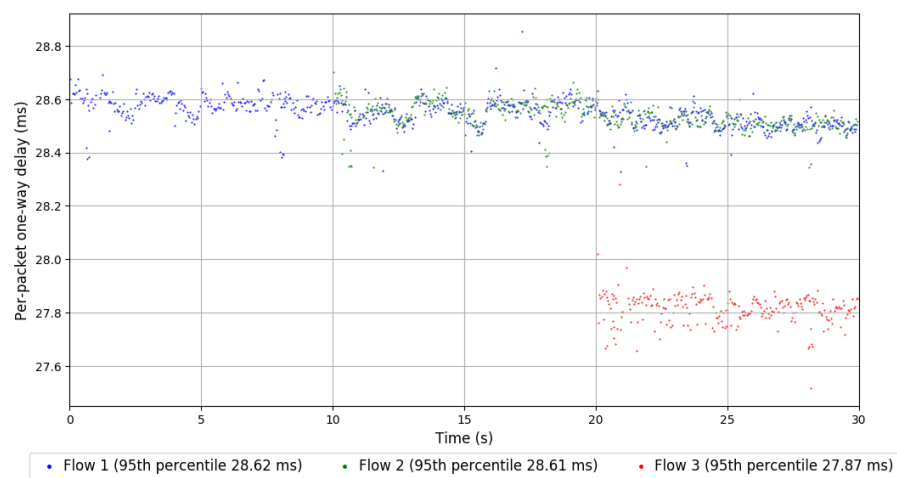
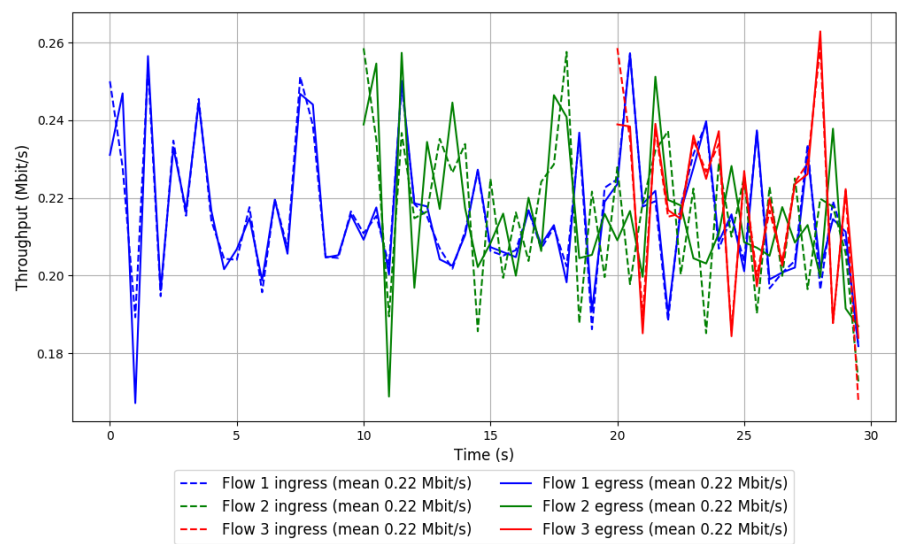
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 27.874 ms

Loss rate: 0.00%

Run 6: Report of SReAM — Data Link

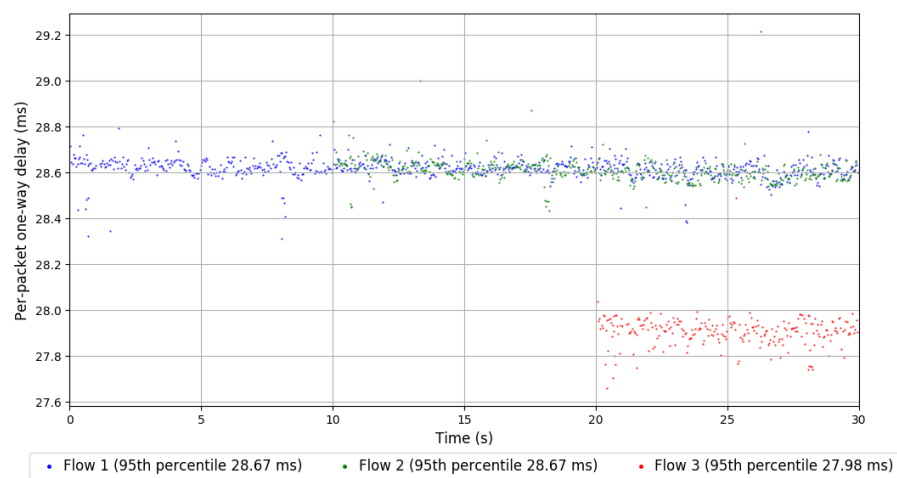
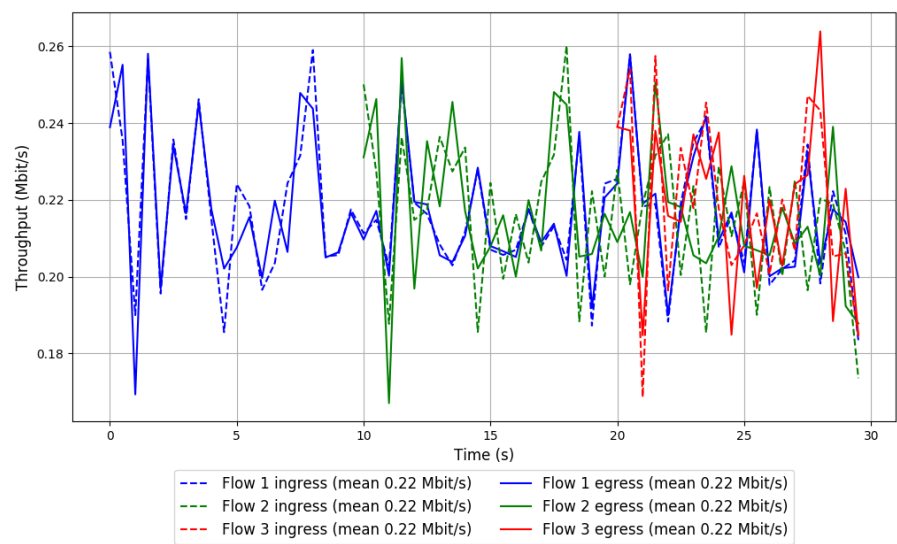


Run 7: Statistics of SReAM

Start at: 2018-01-10 05:54:29
End at: 2018-01-10 05:54:59
Local clock offset: 0.124 ms
Remote clock offset: -1.546 ms

Below is generated by plot.py at 2018-01-10 08:09:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 28.668 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 28.672 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 28.669 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 27.977 ms
Loss rate: 0.00%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SReAM

Start at: 2018-01-10 06:19:47

End at: 2018-01-10 06:20:17

Local clock offset: 0.182 ms

Remote clock offset: 0.338 ms

Below is generated by plot.py at 2018-01-10 08:09:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 31.244 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 31.248 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 31.246 ms

Loss rate: 0.00%

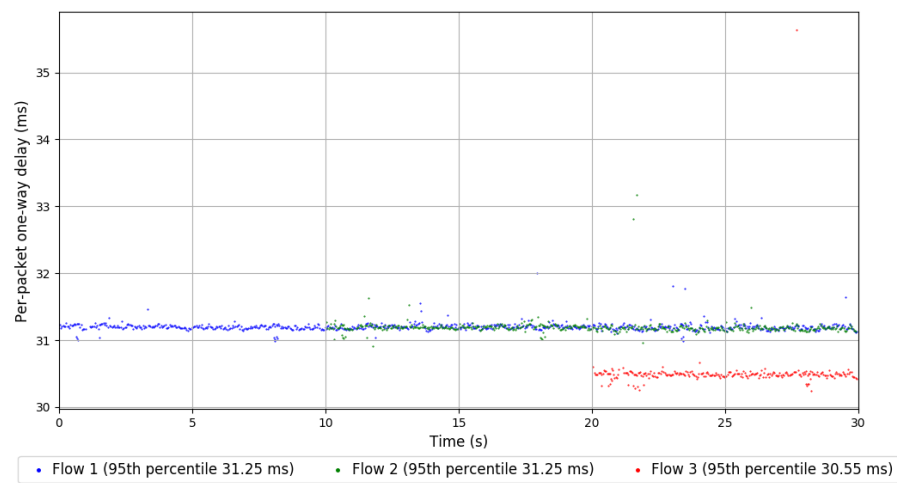
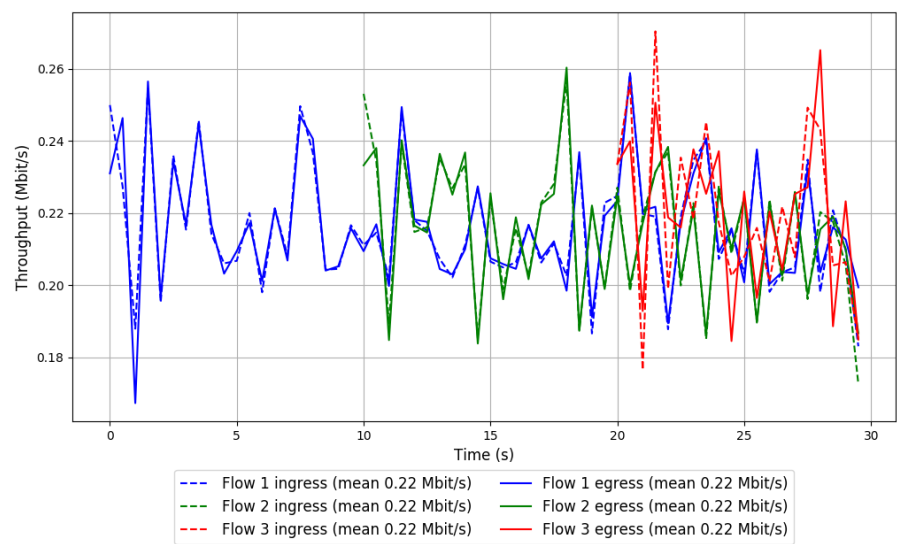
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 30.548 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link

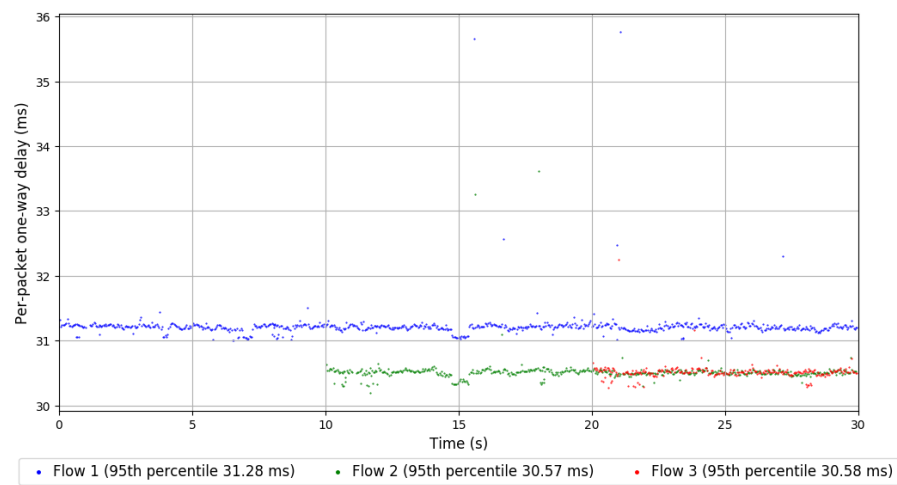
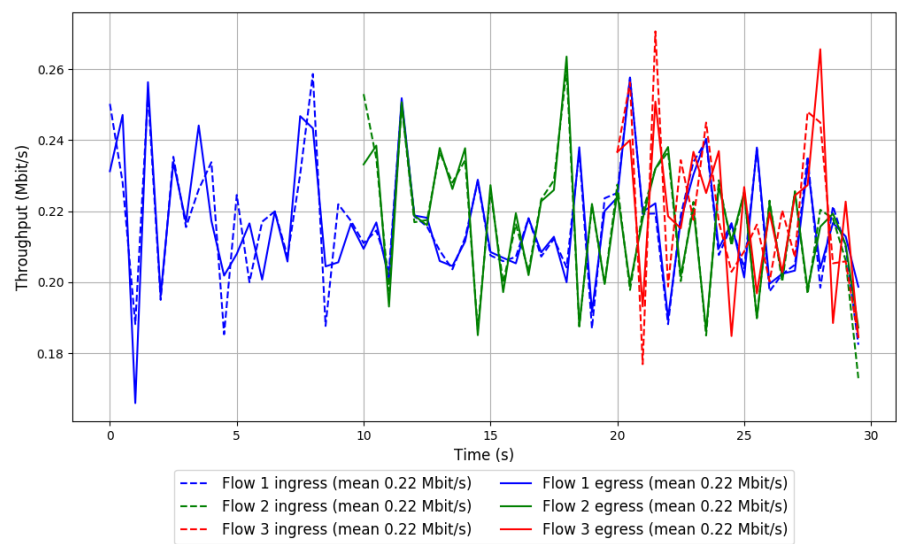


Run 9: Statistics of SReAM

Start at: 2018-01-10 06:45:09
End at: 2018-01-10 06:45:39
Local clock offset: 0.293 ms
Remote clock offset: -0.148 ms

Below is generated by plot.py at 2018-01-10 08:09:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 31.260 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 31.276 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 30.572 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 30.581 ms
Loss rate: 0.00%

Run 9: Report of SCRaM — Data Link

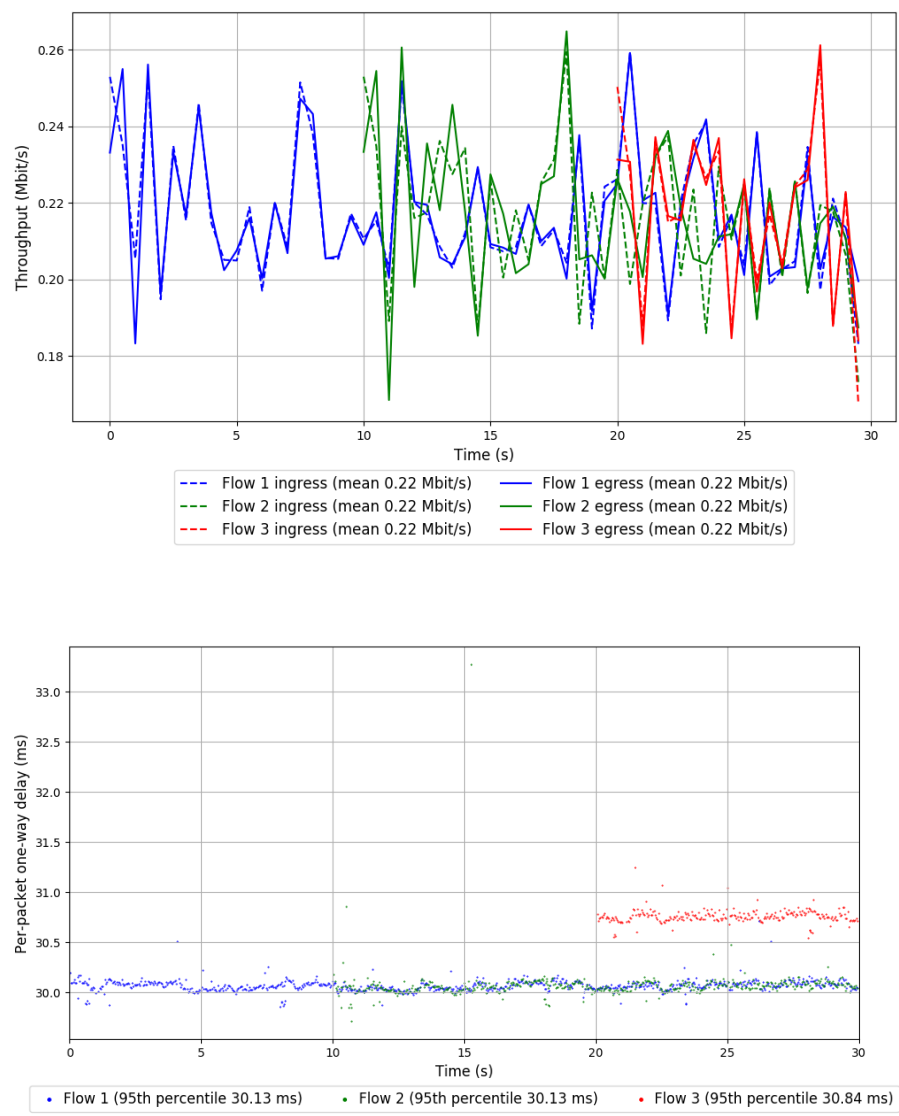


Run 10: Statistics of SReAM

Start at: 2018-01-10 07:10:29
End at: 2018-01-10 07:10:59
Local clock offset: 0.065 ms
Remote clock offset: -2.581 ms

Below is generated by plot.py at 2018-01-10 08:09:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 30.779 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 30.134 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 30.134 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 30.839 ms
Loss rate: 0.00%

Run 10: Report of SCReAM — Data Link



Run 1: Statistics of WebRTC media

Start at: 2018-01-10 03:31:15

End at: 2018-01-10 03:31:45

Local clock offset: 0.06 ms

Remote clock offset: 2.018 ms

Below is generated by plot.py at 2018-01-10 08:09:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.20 Mbit/s

95th percentile per-packet one-way delay: 31.691 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 31.741 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.43 Mbit/s

95th percentile per-packet one-way delay: 31.099 ms

Loss rate: 0.02%

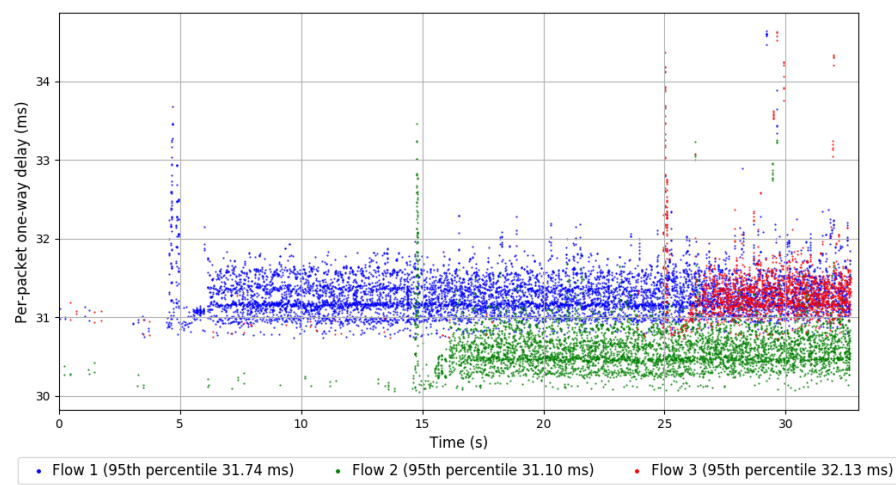
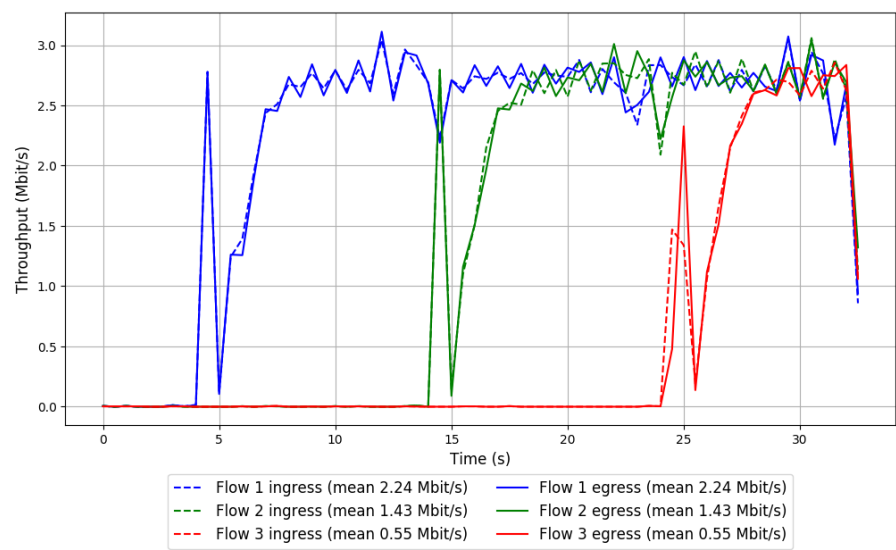
-- Flow 3:

Average throughput: 0.55 Mbit/s

95th percentile per-packet one-way delay: 32.131 ms

Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-01-10 03:54:00

End at: 2018-01-10 03:54:30

Local clock offset: 0.139 ms

Remote clock offset: 2.614 ms

Below is generated by plot.py at 2018-01-10 08:09:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.42 Mbit/s

95th percentile per-packet one-way delay: 31.768 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 2.34 Mbit/s

95th percentile per-packet one-way delay: 31.110 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 1.52 Mbit/s

95th percentile per-packet one-way delay: 31.904 ms

Loss rate: 0.12%

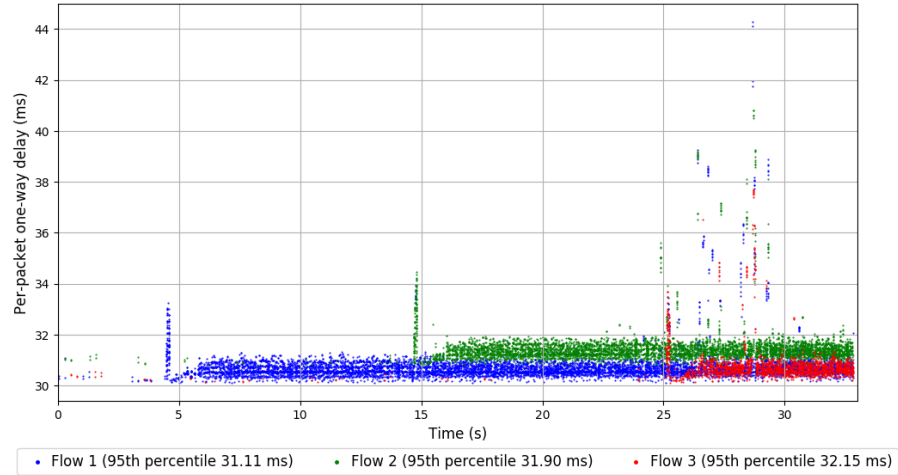
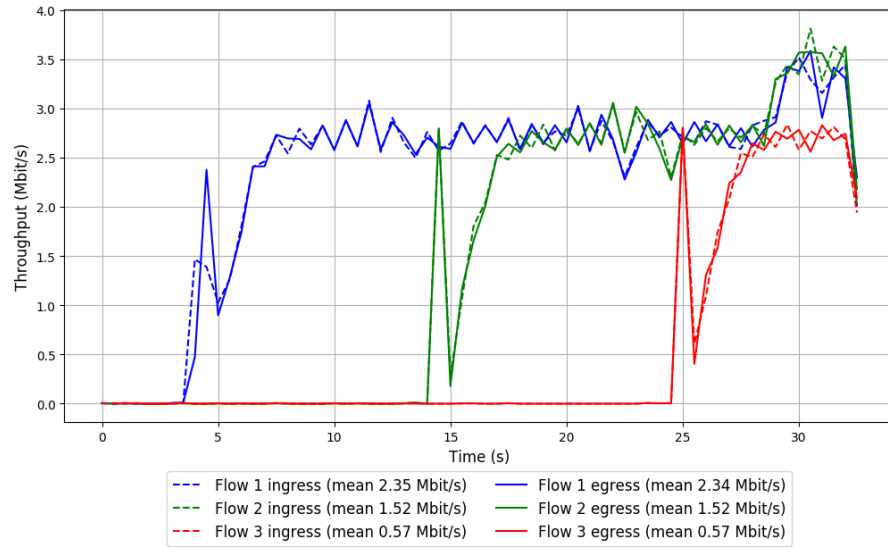
-- Flow 3:

Average throughput: 0.57 Mbit/s

95th percentile per-packet one-way delay: 32.146 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-01-10 04:16:15

End at: 2018-01-10 04:16:45

Local clock offset: 0.433 ms

Remote clock offset: 2.295 ms

Below is generated by plot.py at 2018-01-10 08:09:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.34 Mbit/s

95th percentile per-packet one-way delay: 31.440 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 2.26 Mbit/s

95th percentile per-packet one-way delay: 30.988 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 1.52 Mbit/s

95th percentile per-packet one-way delay: 30.968 ms

Loss rate: 0.12%

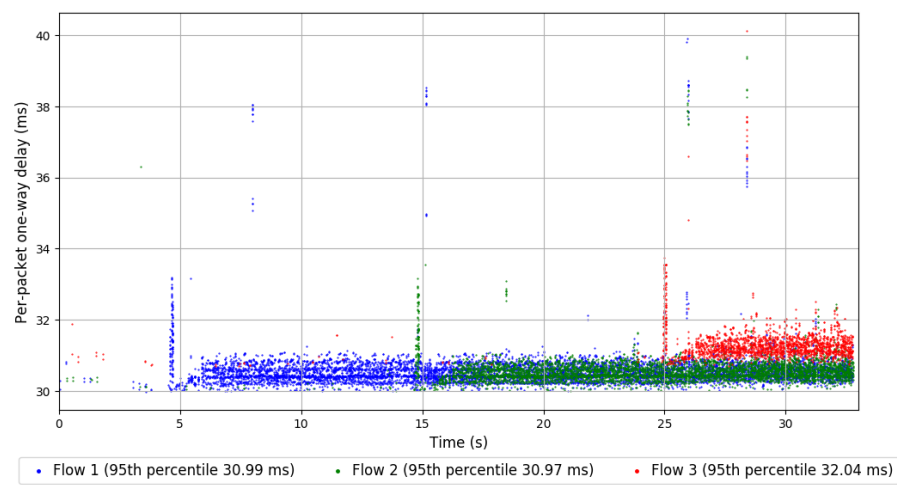
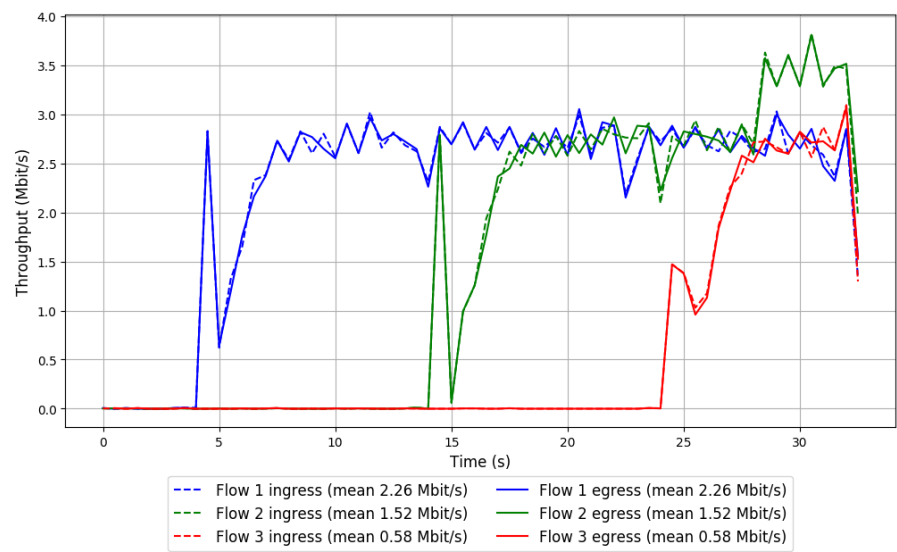
-- Flow 3:

Average throughput: 0.58 Mbit/s

95th percentile per-packet one-way delay: 32.040 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-01-10 04:37:30

End at: 2018-01-10 04:38:00

Local clock offset: 0.539 ms

Remote clock offset: 0.964 ms

Below is generated by plot.py at 2018-01-10 08:09:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.49 Mbit/s

95th percentile per-packet one-way delay: 31.226 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 2.49 Mbit/s

95th percentile per-packet one-way delay: 30.702 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 1.44 Mbit/s

95th percentile per-packet one-way delay: 31.451 ms

Loss rate: 0.00%

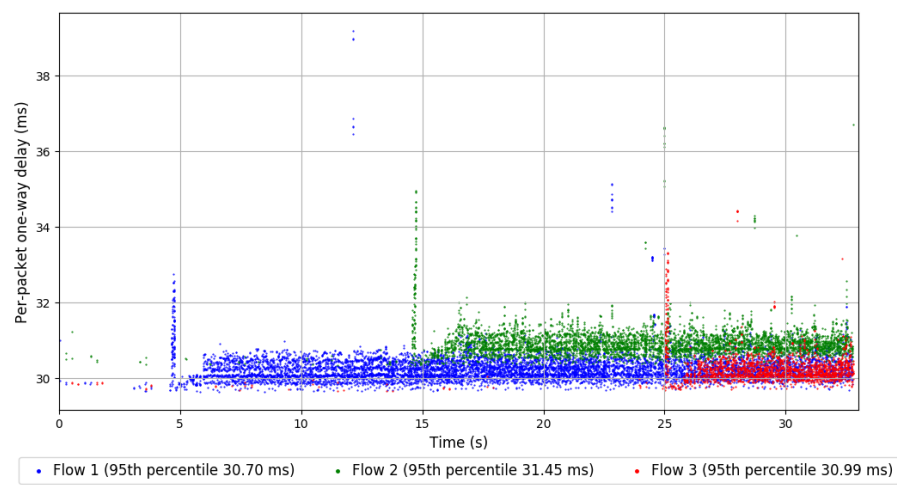
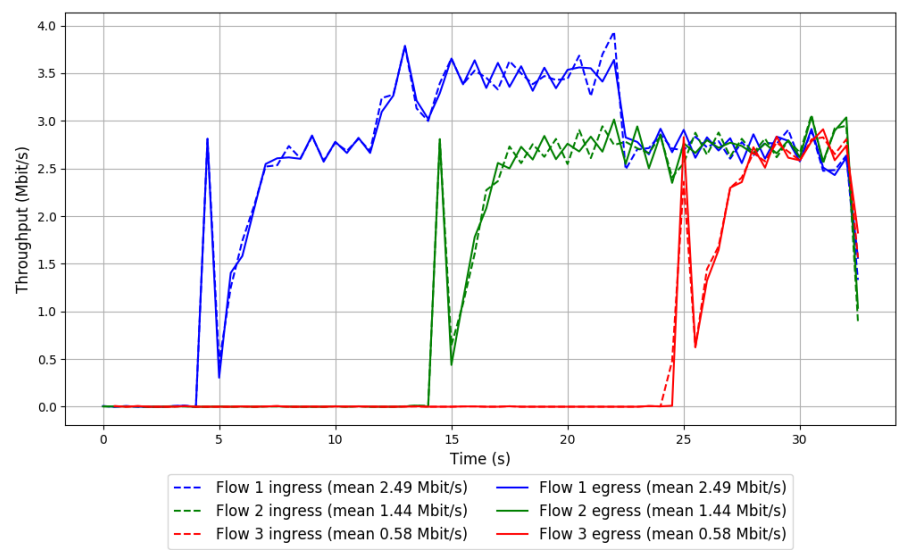
-- Flow 3:

Average throughput: 0.58 Mbit/s

95th percentile per-packet one-way delay: 30.986 ms

Loss rate: 0.05%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-01-10 04:59:34

End at: 2018-01-10 05:00:04

Local clock offset: 0.668 ms

Remote clock offset: 0.528 ms

Below is generated by plot.py at 2018-01-10 08:09:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.93 Mbit/s

95th percentile per-packet one-way delay: 31.270 ms

Loss rate: 0.17%

-- Flow 1:

Average throughput: 2.54 Mbit/s

95th percentile per-packet one-way delay: 31.247 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 1.74 Mbit/s

95th percentile per-packet one-way delay: 31.300 ms

Loss rate: 0.23%

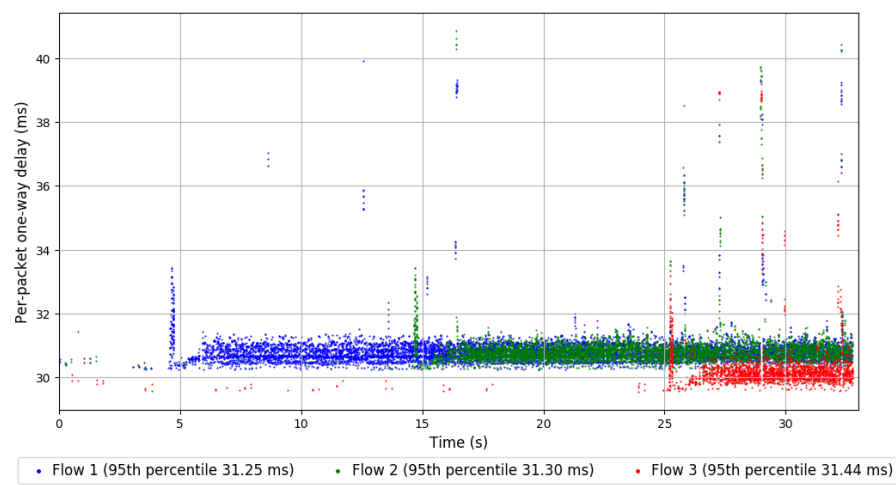
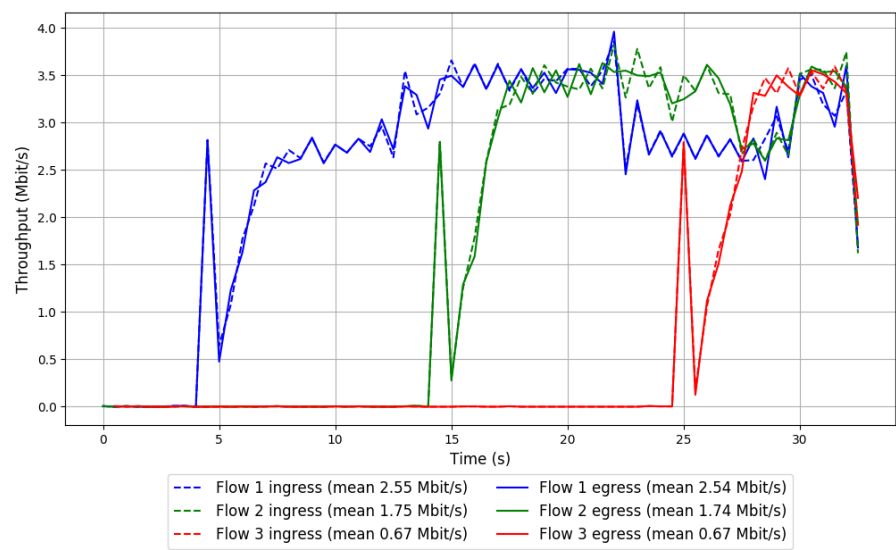
-- Flow 3:

Average throughput: 0.67 Mbit/s

95th percentile per-packet one-way delay: 31.441 ms

Loss rate: 0.17%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-01-10 05:25:56

End at: 2018-01-10 05:26:26

Local clock offset: 0.419 ms

Remote clock offset: 1.417 ms

Below is generated by plot.py at 2018-01-10 08:09:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.18 Mbit/s

95th percentile per-packet one-way delay: 31.689 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.25 Mbit/s

95th percentile per-packet one-way delay: 31.685 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.39 Mbit/s

95th percentile per-packet one-way delay: 31.738 ms

Loss rate: 0.00%

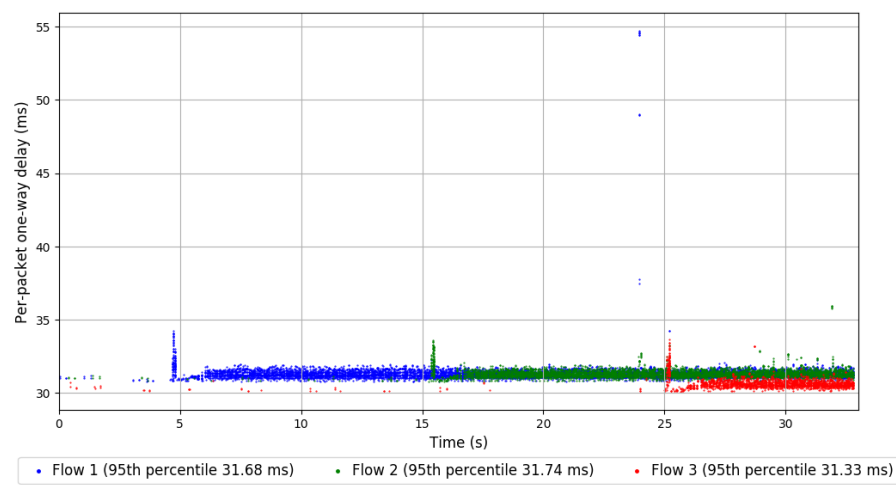
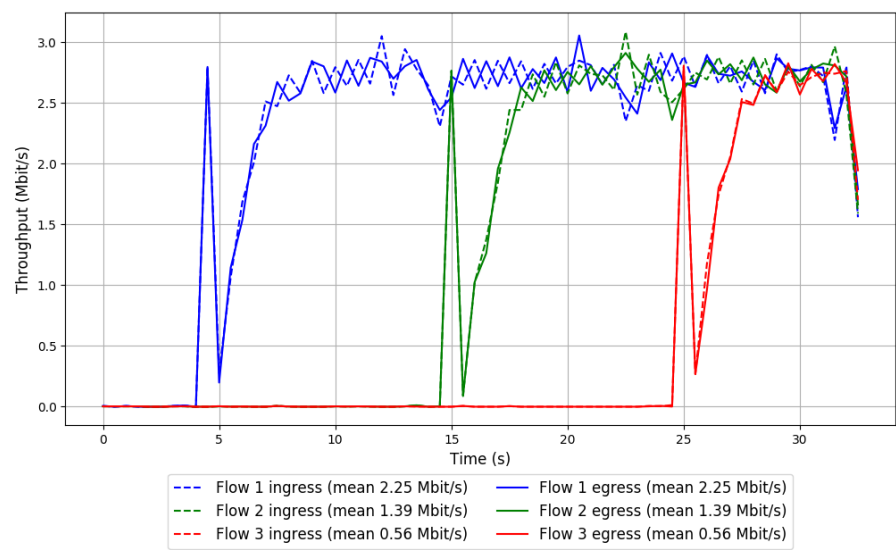
-- Flow 3:

Average throughput: 0.56 Mbit/s

95th percentile per-packet one-way delay: 31.329 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-01-10 05:53:09

End at: 2018-01-10 05:53:39

Local clock offset: 0.141 ms

Remote clock offset: 0.504 ms

Below is generated by plot.py at 2018-01-10 08:09:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 5.41 Mbit/s

95th percentile per-packet one-way delay: 31.506 ms

Loss rate: 0.61%

-- Flow 1:

Average throughput: 2.97 Mbit/s

95th percentile per-packet one-way delay: 30.942 ms

Loss rate: 0.68%

-- Flow 2:

Average throughput: 1.91 Mbit/s

95th percentile per-packet one-way delay: 31.448 ms

Loss rate: 0.55%

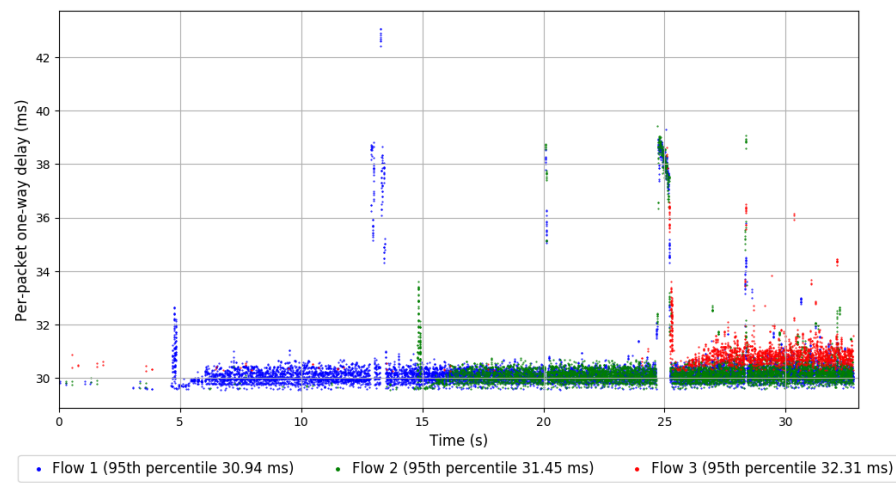
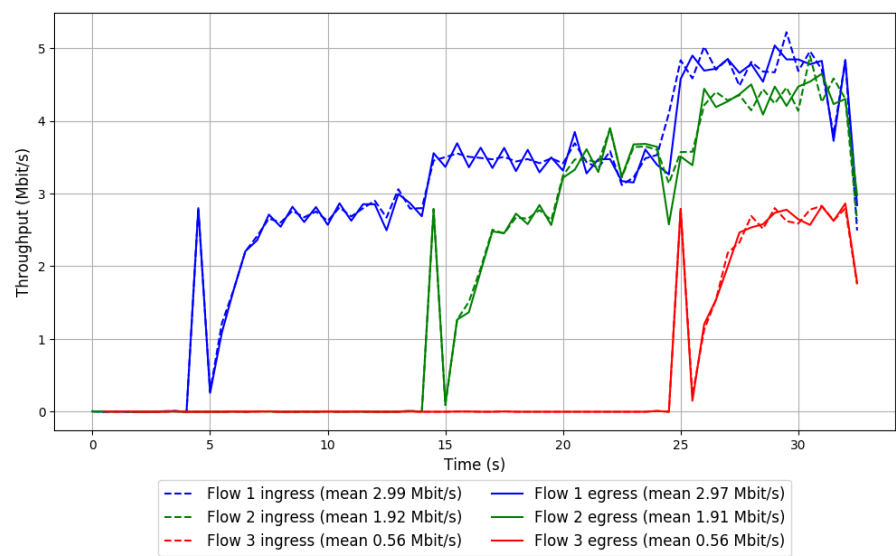
-- Flow 3:

Average throughput: 0.56 Mbit/s

95th percentile per-packet one-way delay: 32.309 ms

Loss rate: 0.37%

Run 7: Report of WebRTC media — Data Link

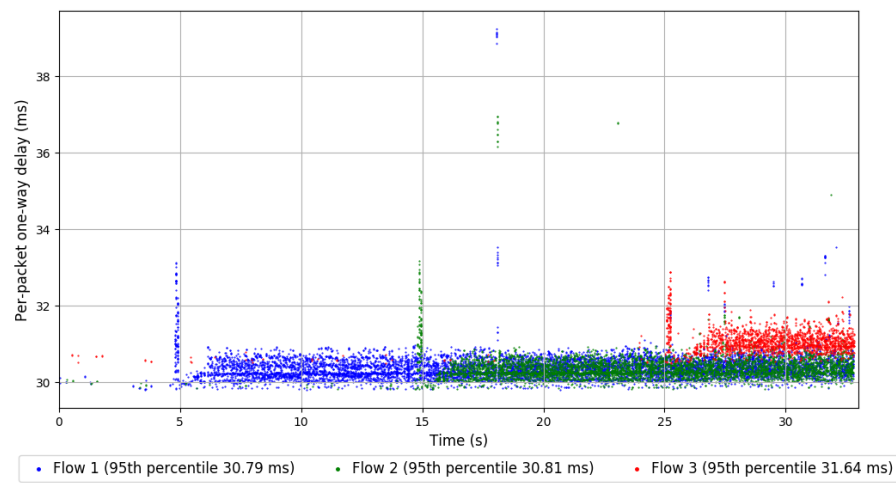
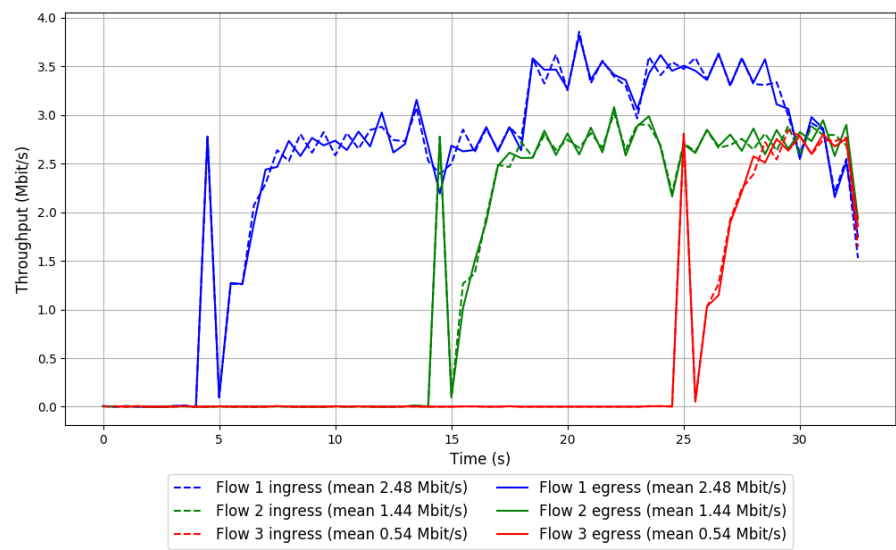


Run 8: Statistics of WebRTC media

Start at: 2018-01-10 06:18:27
End at: 2018-01-10 06:18:57
Local clock offset: 0.062 ms
Remote clock offset: -0.038 ms

Below is generated by plot.py at 2018-01-10 08:09:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 4.44 Mbit/s
95th percentile per-packet one-way delay: 31.204 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 2.48 Mbit/s
95th percentile per-packet one-way delay: 30.792 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 1.44 Mbit/s
95th percentile per-packet one-way delay: 30.812 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.54 Mbit/s
95th percentile per-packet one-way delay: 31.636 ms
Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link

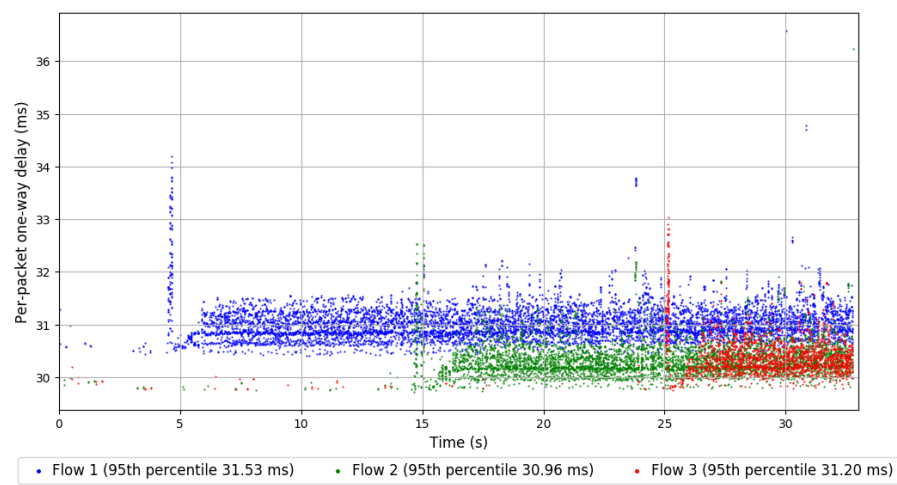
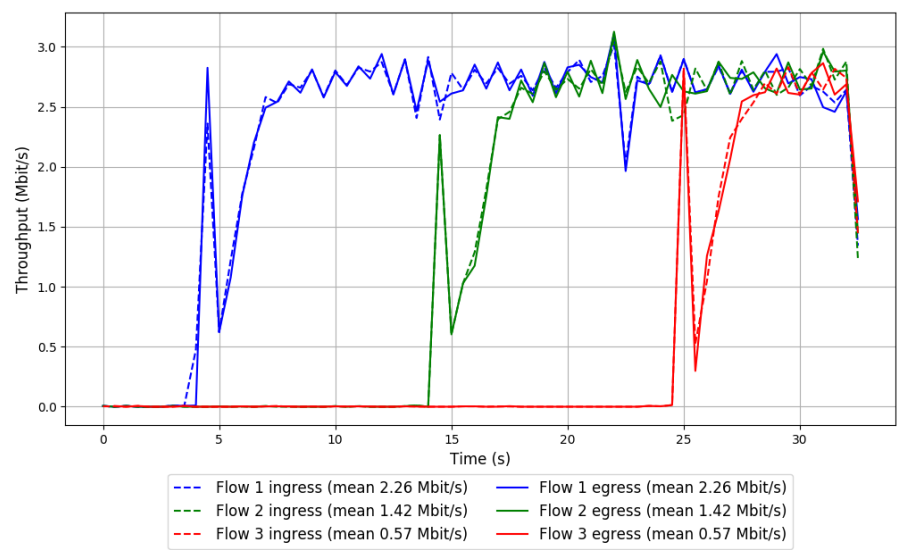


Run 9: Statistics of WebRTC media

Start at: 2018-01-10 06:43:50
End at: 2018-01-10 06:44:20
Local clock offset: 0.295 ms
Remote clock offset: -0.464 ms

Below is generated by plot.py at 2018-01-10 08:09:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 4.23 Mbit/s
95th percentile per-packet one-way delay: 31.452 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.26 Mbit/s
95th percentile per-packet one-way delay: 31.528 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.42 Mbit/s
95th percentile per-packet one-way delay: 30.958 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.57 Mbit/s
95th percentile per-packet one-way delay: 31.197 ms
Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link

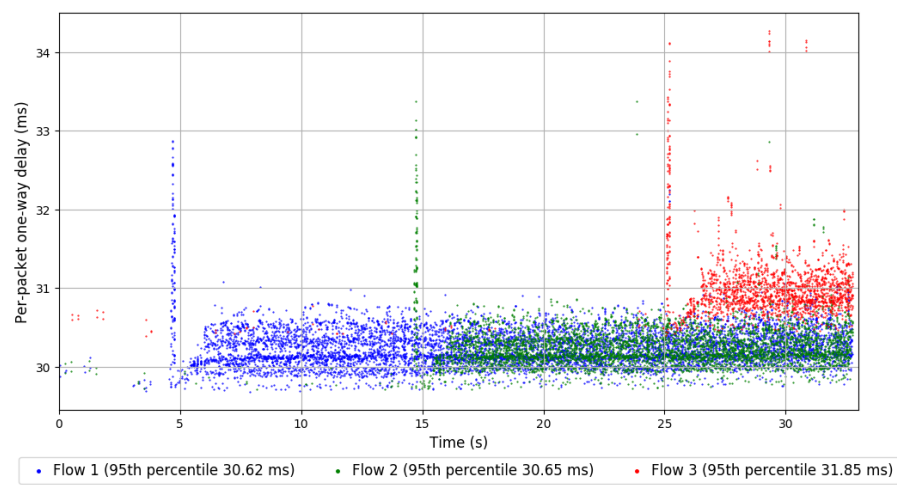
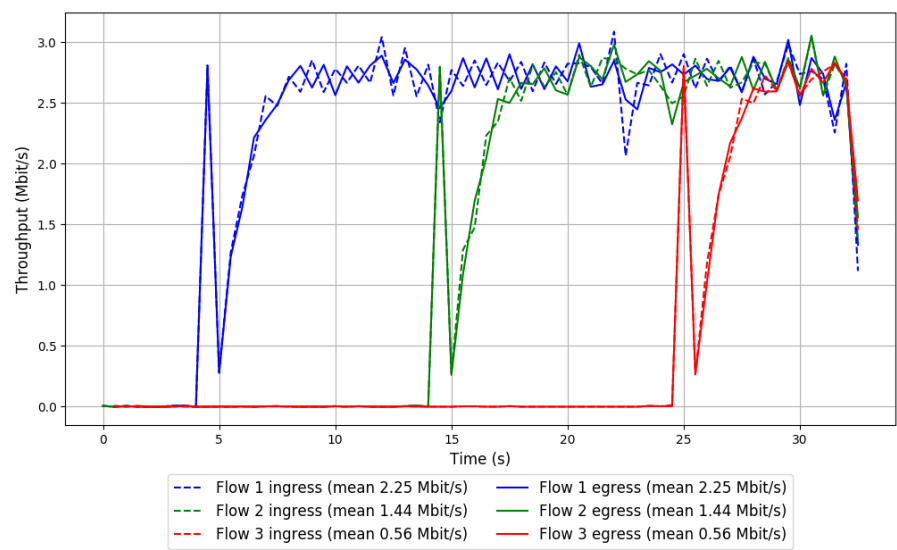


Run 10: Statistics of WebRTC media

Start at: 2018-01-10 07:09:09
End at: 2018-01-10 07:09:39
Local clock offset: 0.137 ms
Remote clock offset: -2.379 ms

Below is generated by plot.py at 2018-01-10 08:09:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 4.24 Mbit/s
95th percentile per-packet one-way delay: 31.080 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.25 Mbit/s
95th percentile per-packet one-way delay: 30.618 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.44 Mbit/s
95th percentile per-packet one-way delay: 30.651 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.56 Mbit/s
95th percentile per-packet one-way delay: 31.851 ms
Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2018-01-10 03:38:40

End at: 2018-01-10 03:39:10

Local clock offset: 0.067 ms

Remote clock offset: 2.075 ms

Below is generated by plot.py at 2018-01-10 08:09:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 29.79 Mbit/s

95th percentile per-packet one-way delay: 35.461 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 15.13 Mbit/s

95th percentile per-packet one-way delay: 34.914 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 14.93 Mbit/s

95th percentile per-packet one-way delay: 35.127 ms

Loss rate: 0.00%

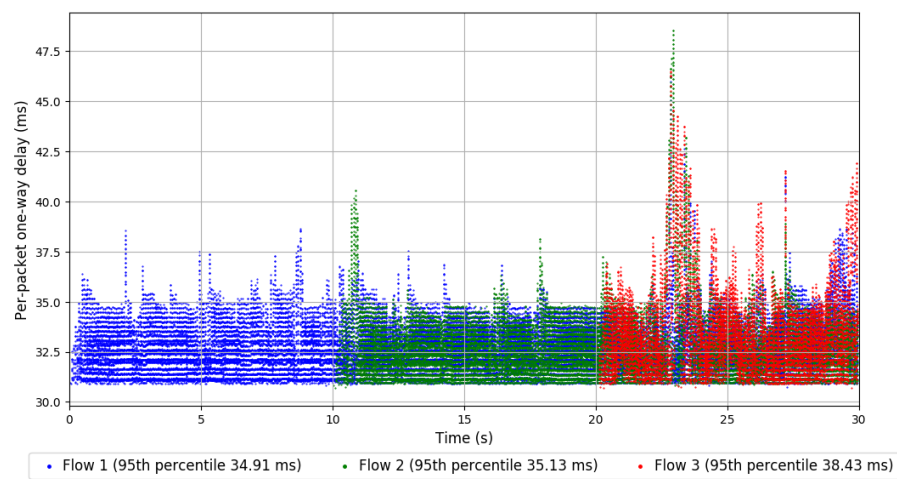
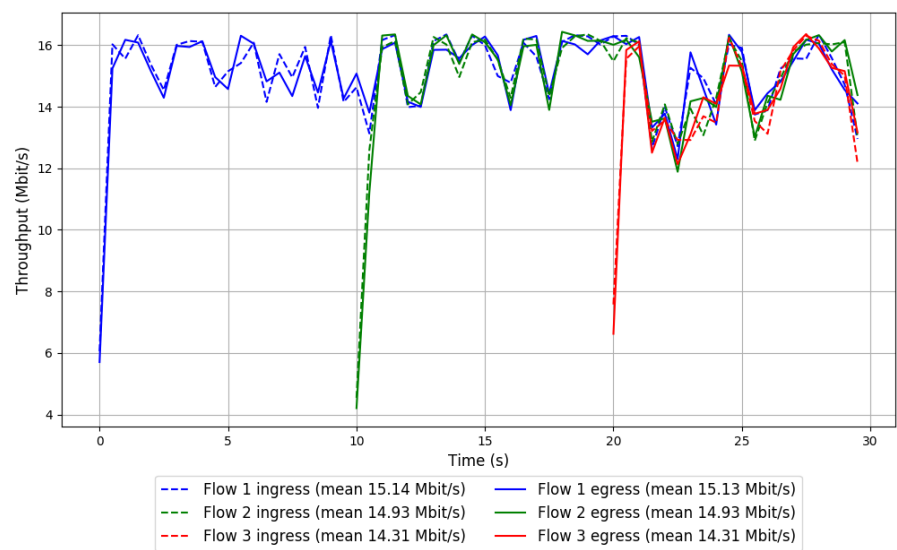
-- Flow 3:

Average throughput: 14.31 Mbit/s

95th percentile per-packet one-way delay: 38.430 ms

Loss rate: 0.00%

Run 1: Report of Sprout — Data Link

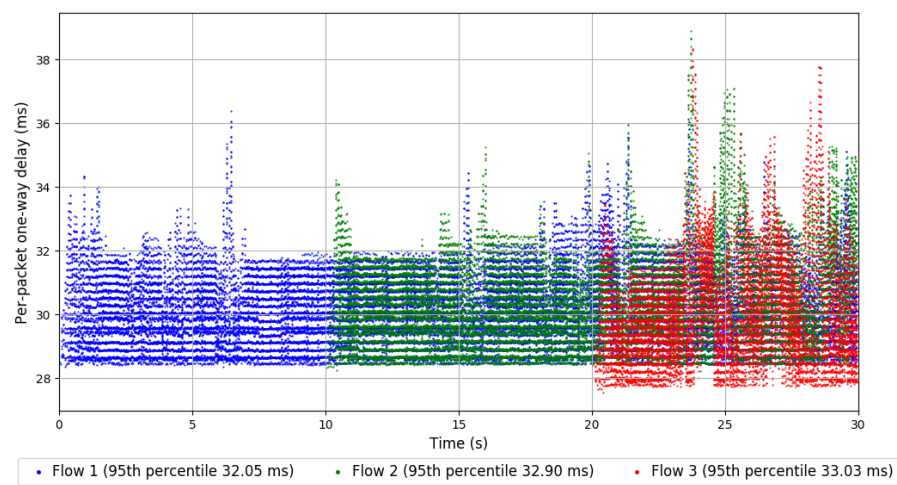
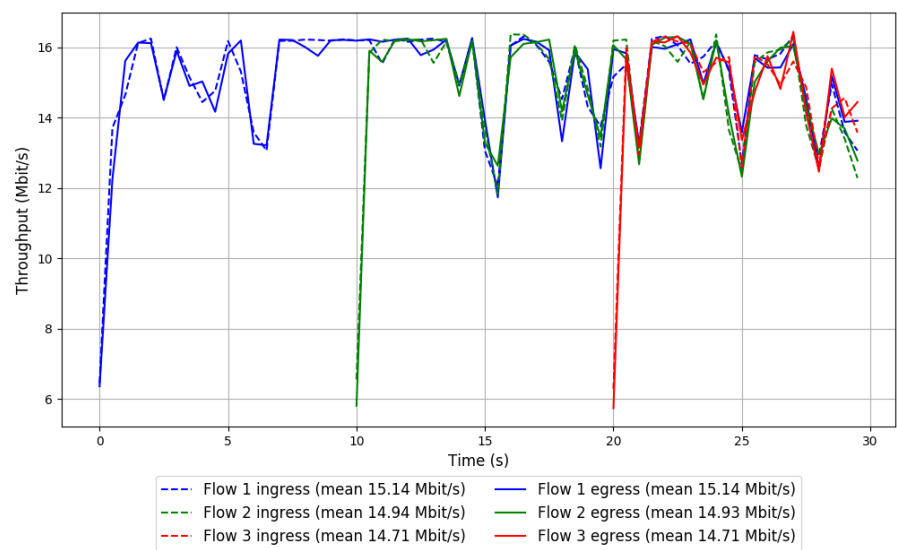


Run 2: Statistics of Sprout

Start at: 2018-01-10 04:01:07
End at: 2018-01-10 04:01:37
Local clock offset: 0.242 ms
Remote clock offset: -0.005 ms

Below is generated by plot.py at 2018-01-10 08:09:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 29.93 Mbit/s
95th percentile per-packet one-way delay: 32.472 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 15.14 Mbit/s
95th percentile per-packet one-way delay: 32.053 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 14.93 Mbit/s
95th percentile per-packet one-way delay: 32.895 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 14.71 Mbit/s
95th percentile per-packet one-way delay: 33.031 ms
Loss rate: 0.00%

Run 2: Report of Sprout — Data Link

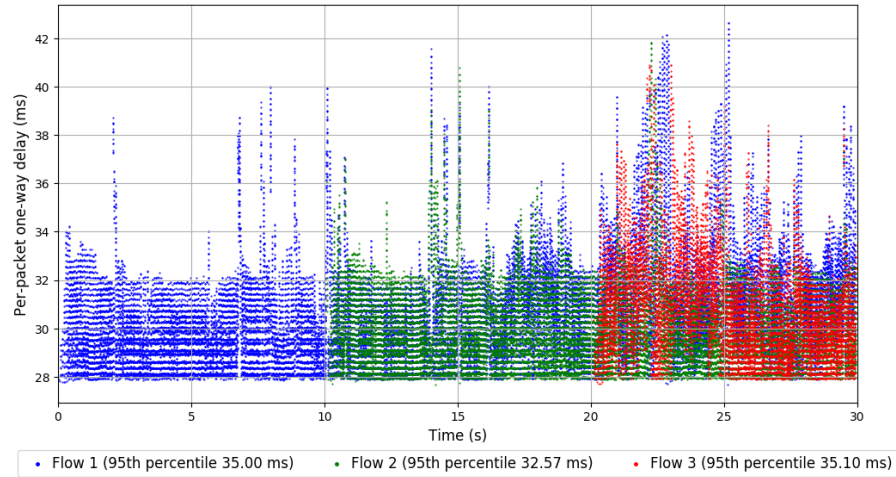
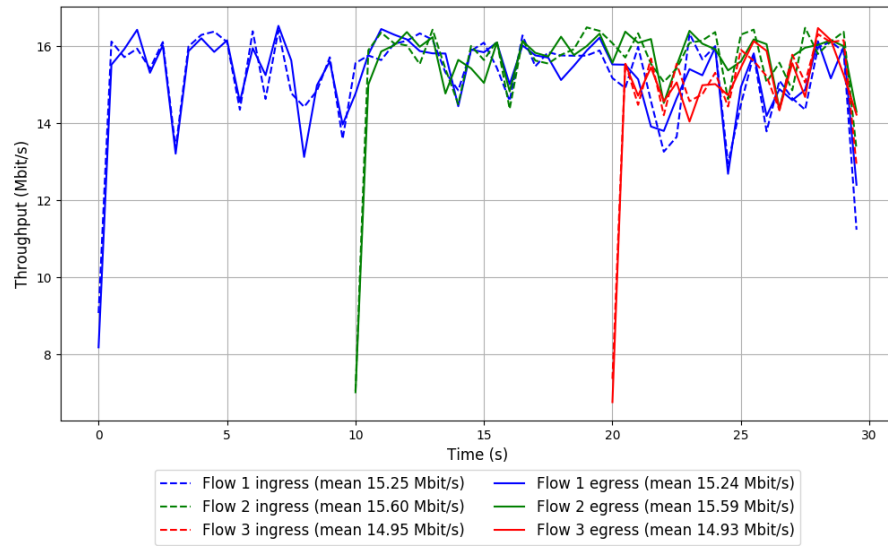


Run 3: Statistics of Sprout

Start at: 2018-01-10 04:23:10
End at: 2018-01-10 04:23:40
Local clock offset: 0.468 ms
Remote clock offset: -0.308 ms

Below is generated by plot.py at 2018-01-10 08:09:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 30.54 Mbit/s
95th percentile per-packet one-way delay: 34.337 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 15.24 Mbit/s
95th percentile per-packet one-way delay: 34.997 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 15.59 Mbit/s
95th percentile per-packet one-way delay: 32.567 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 14.93 Mbit/s
95th percentile per-packet one-way delay: 35.102 ms
Loss rate: 0.11%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-01-10 04:44:22

End at: 2018-01-10 04:44:52

Local clock offset: 0.576 ms

Remote clock offset: 1.075 ms

Below is generated by plot.py at 2018-01-10 08:09:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 30.82 Mbit/s

95th percentile per-packet one-way delay: 35.553 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 15.43 Mbit/s

95th percentile per-packet one-way delay: 35.753 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 15.62 Mbit/s

95th percentile per-packet one-way delay: 34.556 ms

Loss rate: 0.05%

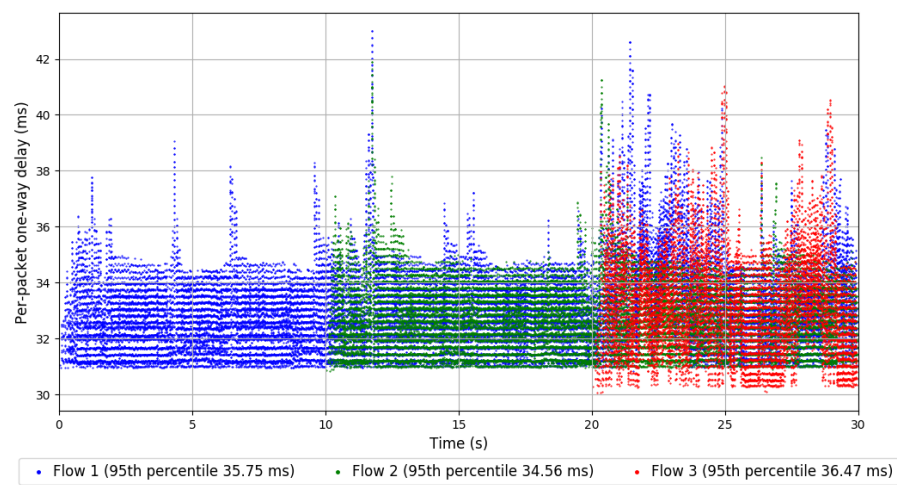
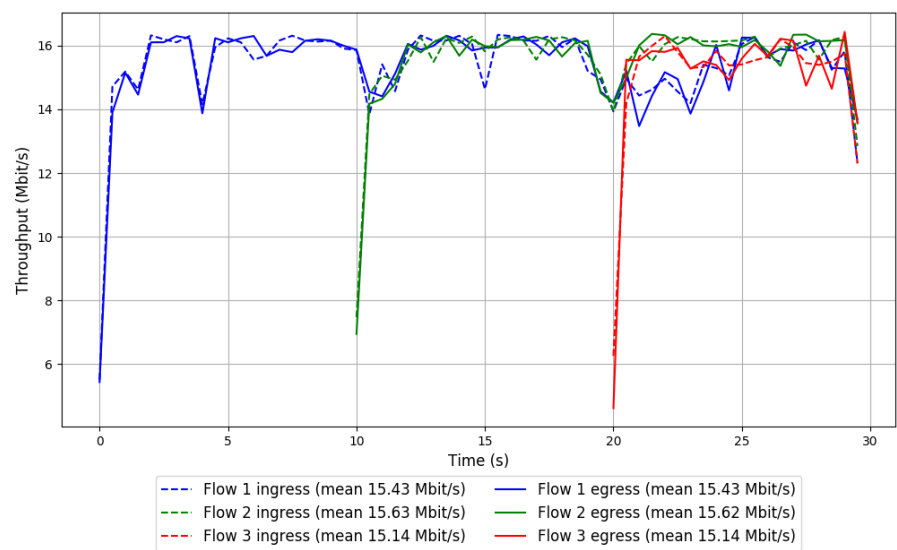
-- Flow 3:

Average throughput: 15.14 Mbit/s

95th percentile per-packet one-way delay: 36.467 ms

Loss rate: 0.00%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-01-10 05:07:03

End at: 2018-01-10 05:07:33

Local clock offset: 0.628 ms

Remote clock offset: 0.787 ms

Below is generated by plot.py at 2018-01-10 08:09:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 24.84 Mbit/s

95th percentile per-packet one-way delay: 37.668 ms

Loss rate: 0.25%

-- Flow 1:

Average throughput: 12.34 Mbit/s

95th percentile per-packet one-way delay: 37.705 ms

Loss rate: 0.18%

-- Flow 2:

Average throughput: 12.64 Mbit/s

95th percentile per-packet one-way delay: 36.877 ms

Loss rate: 0.48%

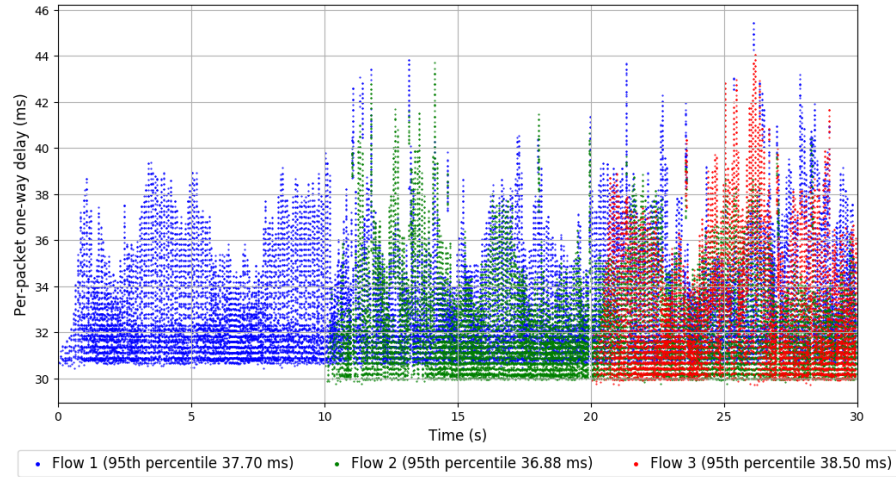
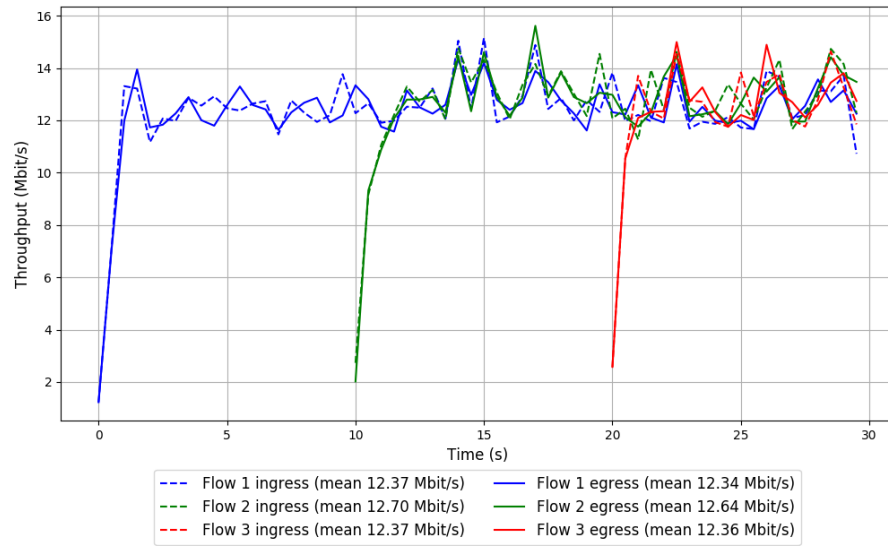
-- Flow 3:

Average throughput: 12.36 Mbit/s

95th percentile per-packet one-way delay: 38.504 ms

Loss rate: 0.00%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-01-10 05:33:51

End at: 2018-01-10 05:34:21

Local clock offset: 0.345 ms

Remote clock offset: 0.911 ms

Below is generated by plot.py at 2018-01-10 08:09:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 24.89 Mbit/s

95th percentile per-packet one-way delay: 37.491 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 12.39 Mbit/s

95th percentile per-packet one-way delay: 37.401 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 12.60 Mbit/s

95th percentile per-packet one-way delay: 37.643 ms

Loss rate: 0.00%

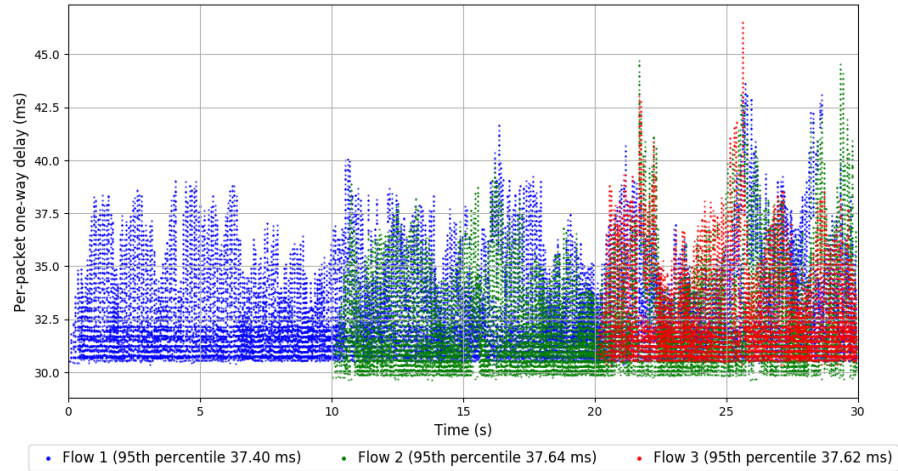
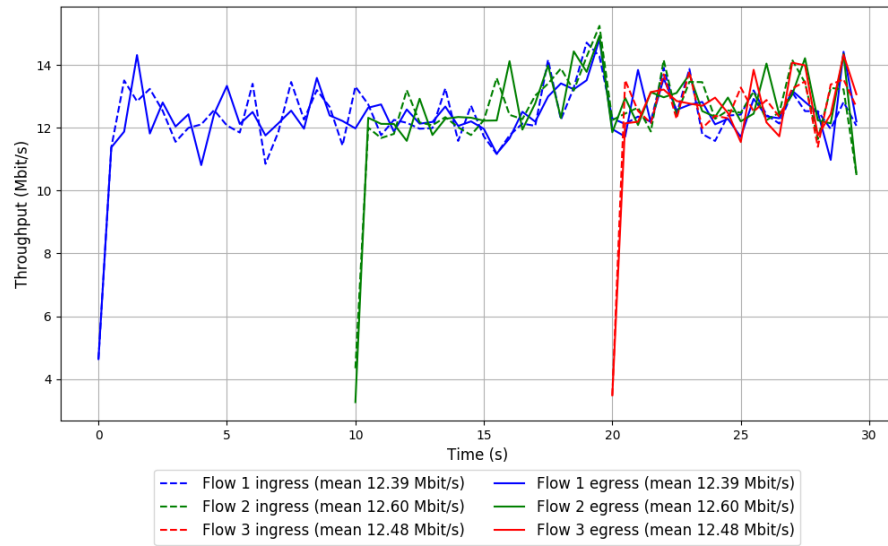
-- Flow 3:

Average throughput: 12.48 Mbit/s

95th percentile per-packet one-way delay: 37.622 ms

Loss rate: 0.00%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-01-10 06:00:44

End at: 2018-01-10 06:01:14

Local clock offset: 0.12 ms

Remote clock offset: 0.292 ms

Below is generated by plot.py at 2018-01-10 08:10:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 25.26 Mbit/s

95th percentile per-packet one-way delay: 37.754 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 12.63 Mbit/s

95th percentile per-packet one-way delay: 37.236 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 12.86 Mbit/s

95th percentile per-packet one-way delay: 38.096 ms

Loss rate: 0.02%

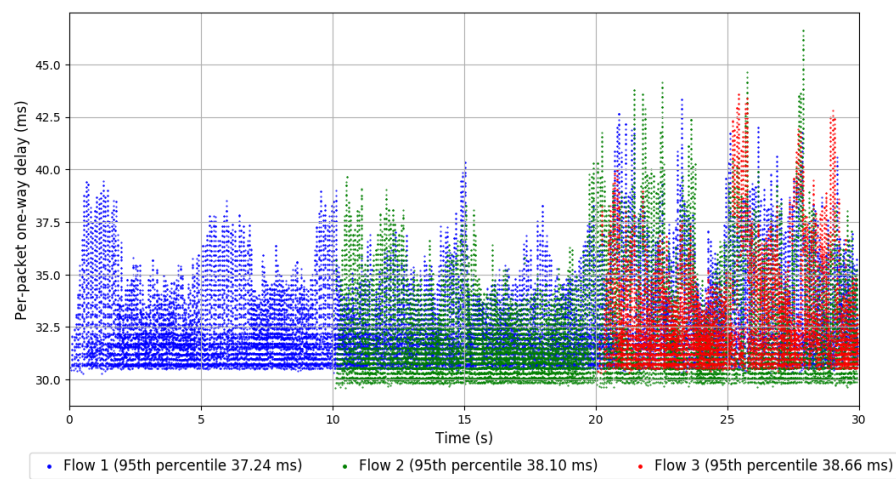
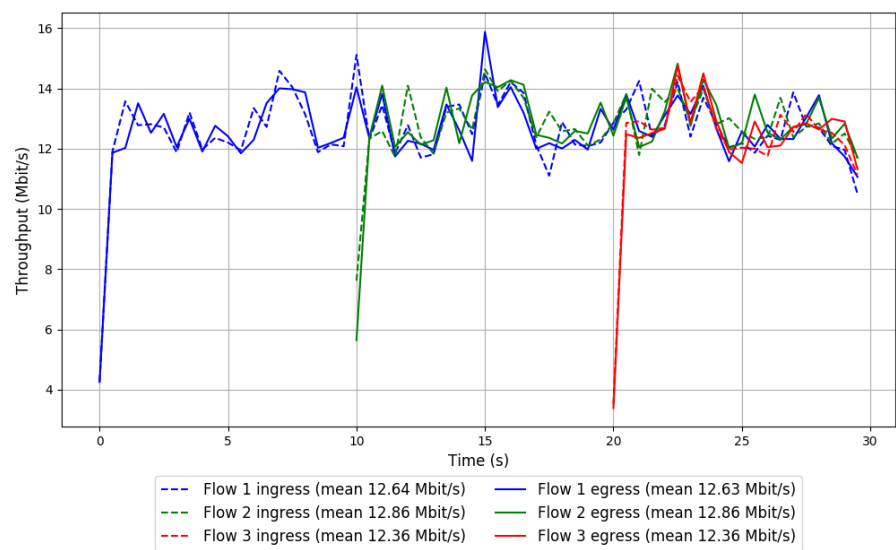
-- Flow 3:

Average throughput: 12.36 Mbit/s

95th percentile per-packet one-way delay: 38.662 ms

Loss rate: 0.00%

Run 7: Report of Sprout — Data Link

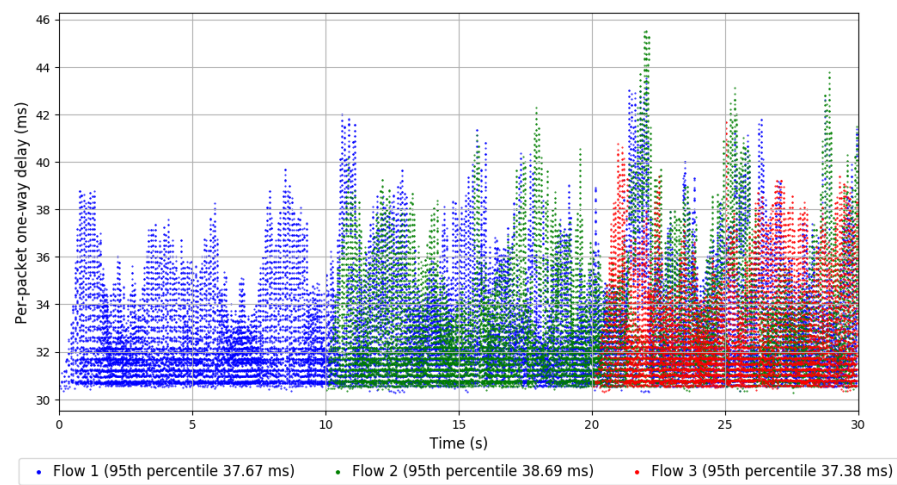
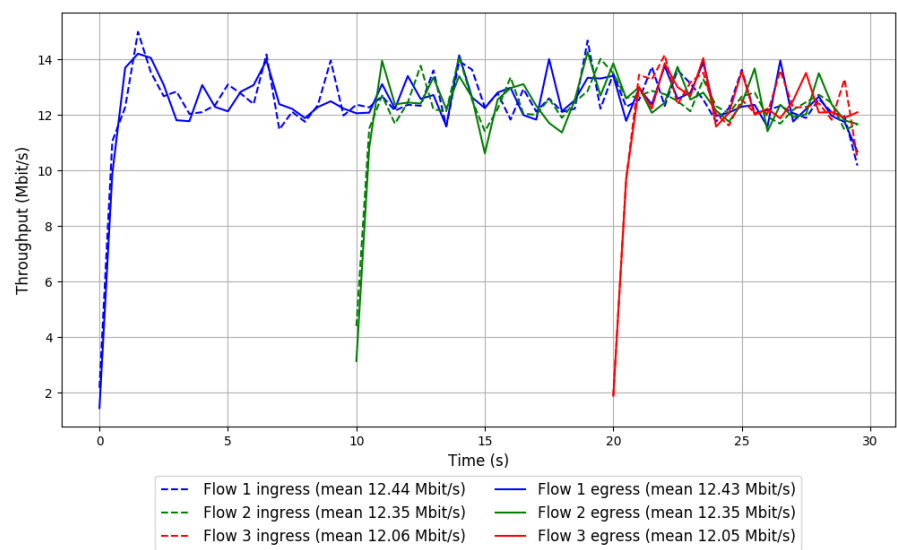


Run 8: Statistics of Sprout

Start at: 2018-01-10 06:25:59
End at: 2018-01-10 06:26:29
Local clock offset: 0.211 ms
Remote clock offset: -0.331 ms

```
# Below is generated by plot.py at 2018-01-10 08:10:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 24.63 Mbit/s
95th percentile per-packet one-way delay: 37.984 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 12.43 Mbit/s
95th percentile per-packet one-way delay: 37.674 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 12.35 Mbit/s
95th percentile per-packet one-way delay: 38.694 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 12.05 Mbit/s
95th percentile per-packet one-way delay: 37.375 ms
Loss rate: 0.00%
```

Run 8: Report of Sprout — Data Link

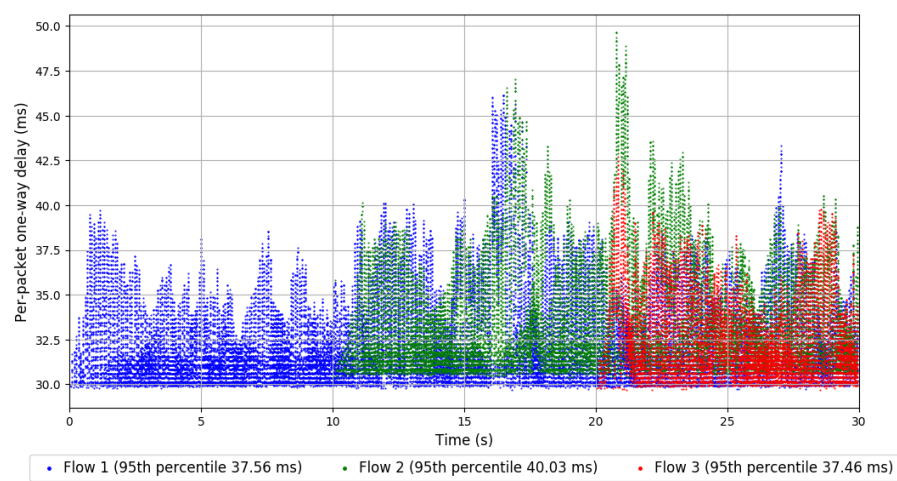
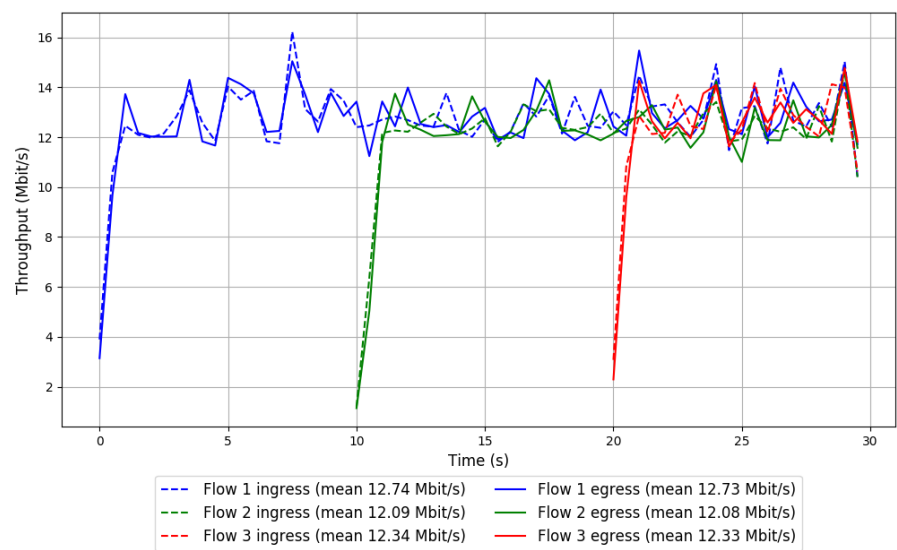


Run 9: Statistics of Sprout

Start at: 2018-01-10 06:51:15
End at: 2018-01-10 06:51:45
Local clock offset: 0.241 ms
Remote clock offset: -1.066 ms

Below is generated by plot.py at 2018-01-10 08:10:03
Datalink statistics
-- Total of 3 flows:
Average throughput: 24.85 Mbit/s
95th percentile per-packet one-way delay: 38.366 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 12.73 Mbit/s
95th percentile per-packet one-way delay: 37.565 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 12.08 Mbit/s
95th percentile per-packet one-way delay: 40.032 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 12.33 Mbit/s
95th percentile per-packet one-way delay: 37.457 ms
Loss rate: 0.00%

Run 9: Report of Sprout — Data Link

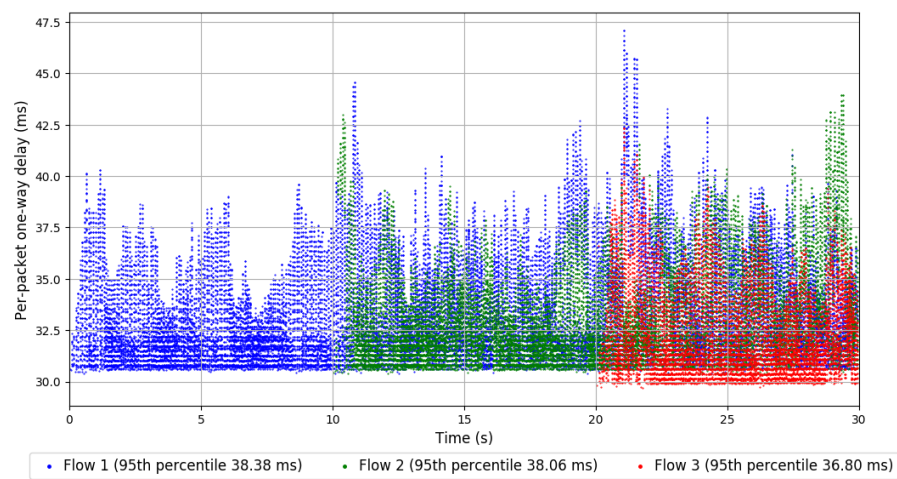
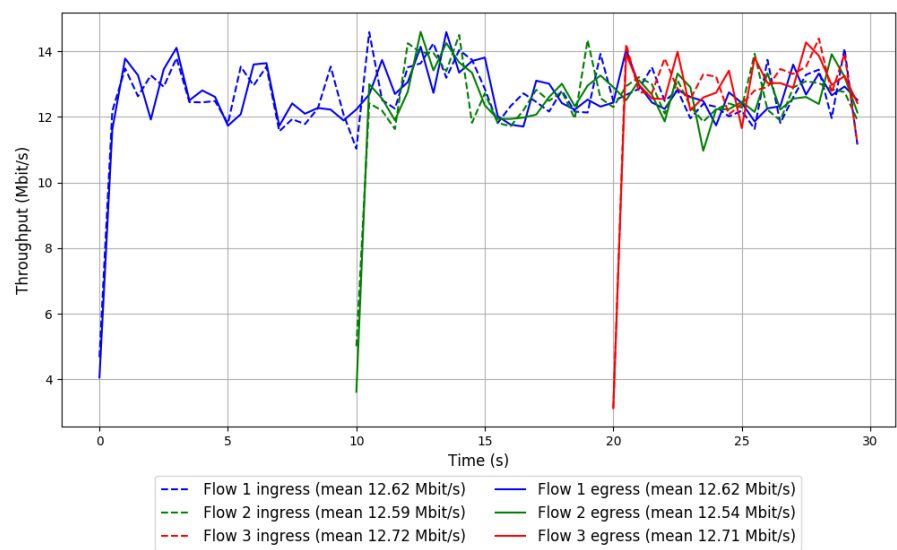


Run 10: Statistics of Sprout

Start at: 2018-01-10 07:16:40
End at: 2018-01-10 07:17:10
Local clock offset: 0.163 ms
Remote clock offset: -3.005 ms

Below is generated by plot.py at 2018-01-10 08:10:05
Datalink statistics
-- Total of 3 flows:
Average throughput: 25.16 Mbit/s
95th percentile per-packet one-way delay: 38.060 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 12.62 Mbit/s
95th percentile per-packet one-way delay: 38.381 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 12.54 Mbit/s
95th percentile per-packet one-way delay: 38.064 ms
Loss rate: 0.31%
-- Flow 3:
Average throughput: 12.71 Mbit/s
95th percentile per-packet one-way delay: 36.802 ms
Loss rate: 0.00%

Run 10: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

Start at: 2018-01-10 03:20:14

End at: 2018-01-10 03:20:44

Local clock offset: 0.068 ms

Remote clock offset: 1.196 ms

Below is generated by plot.py at 2018-01-10 08:13:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.94 Mbit/s

95th percentile per-packet one-way delay: 64.011 ms

Loss rate: 16.33%

-- Flow 1:

Average throughput: 55.36 Mbit/s

95th percentile per-packet one-way delay: 60.959 ms

Loss rate: 12.16%

-- Flow 2:

Average throughput: 38.11 Mbit/s

95th percentile per-packet one-way delay: 65.220 ms

Loss rate: 23.92%

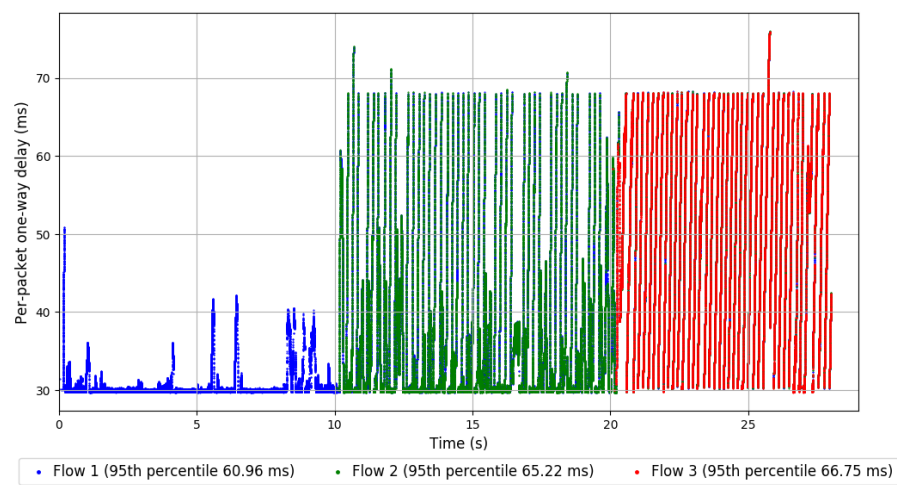
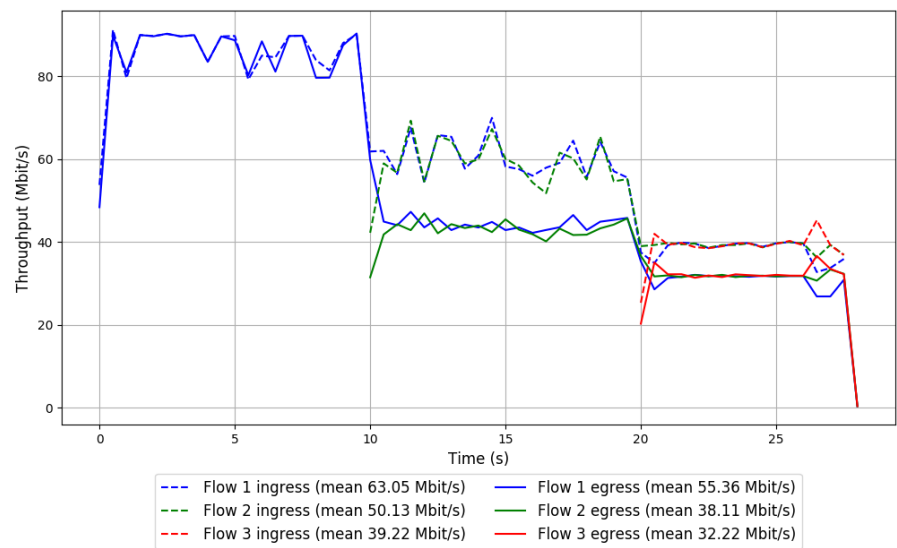
-- Flow 3:

Average throughput: 32.22 Mbit/s

95th percentile per-packet one-way delay: 66.747 ms

Loss rate: 18.02%

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

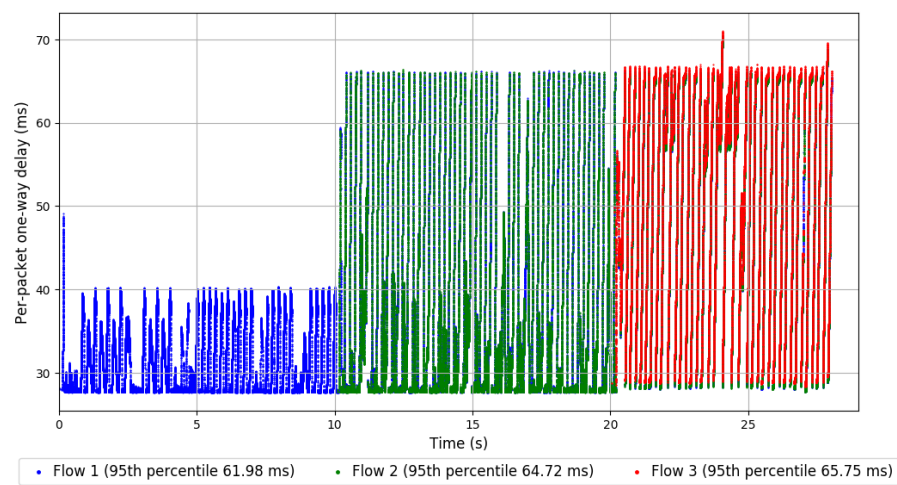
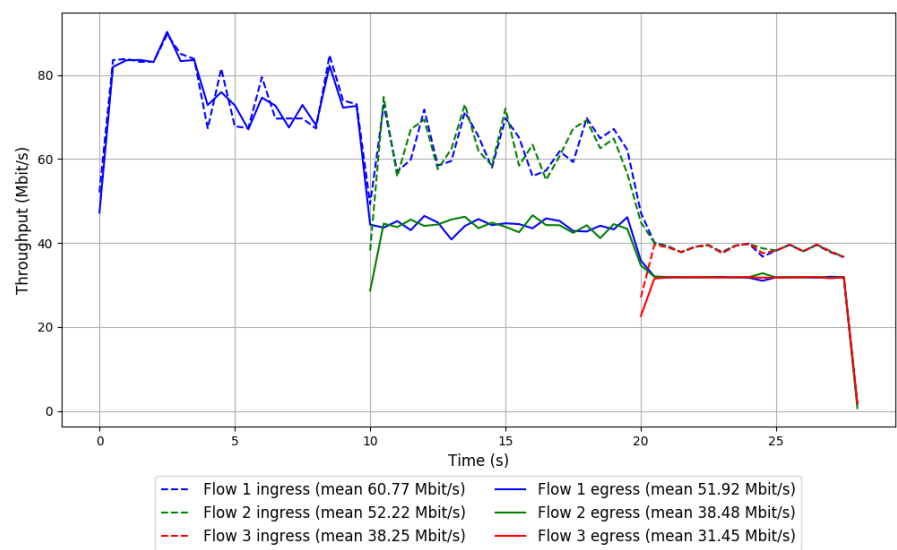


Run 2: Statistics of TaoVA-100x

Start at: 2018-01-10 03:44:36
End at: 2018-01-10 03:45:06
Local clock offset: 0.072 ms
Remote clock offset: -0.313 ms

Below is generated by plot.py at 2018-01-10 08:13:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 85.56 Mbit/s
95th percentile per-packet one-way delay: 64.589 ms
Loss rate: 18.51%
-- Flow 1:
Average throughput: 51.92 Mbit/s
95th percentile per-packet one-way delay: 61.975 ms
Loss rate: 14.44%
-- Flow 2:
Average throughput: 38.48 Mbit/s
95th percentile per-packet one-way delay: 64.723 ms
Loss rate: 26.26%
-- Flow 3:
Average throughput: 31.45 Mbit/s
95th percentile per-packet one-way delay: 65.754 ms
Loss rate: 17.39%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-01-10 04:06:54

End at: 2018-01-10 04:07:24

Local clock offset: 0.306 ms

Remote clock offset: 0.01 ms

Below is generated by plot.py at 2018-01-10 08:14:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.65 Mbit/s

95th percentile per-packet one-way delay: 63.772 ms

Loss rate: 18.92%

-- Flow 1:

Average throughput: 52.38 Mbit/s

95th percentile per-packet one-way delay: 61.194 ms

Loss rate: 15.06%

-- Flow 2:

Average throughput: 40.22 Mbit/s

95th percentile per-packet one-way delay: 64.752 ms

Loss rate: 25.47%

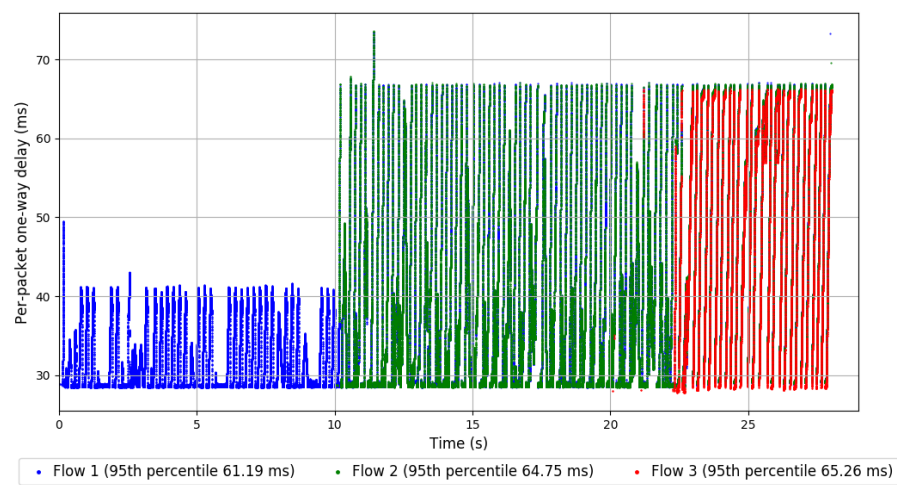
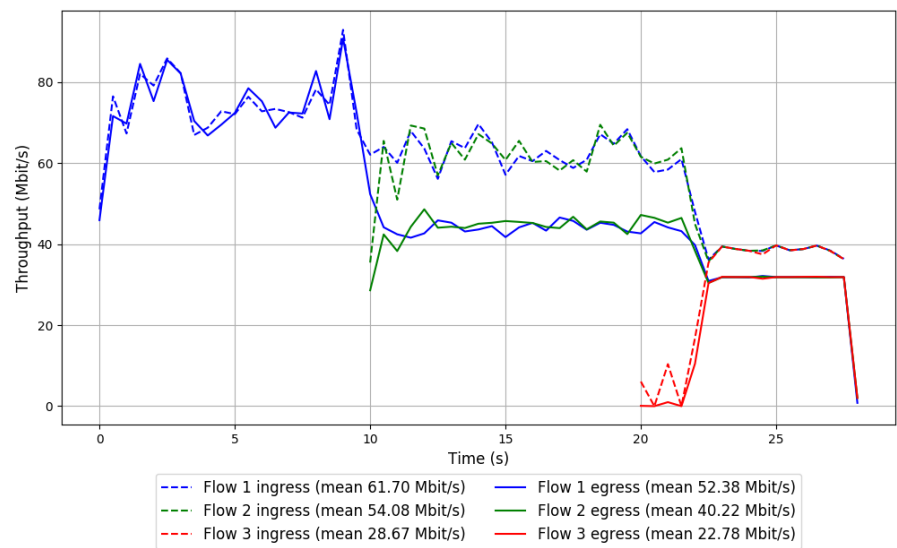
-- Flow 3:

Average throughput: 22.78 Mbit/s

95th percentile per-packet one-way delay: 65.264 ms

Loss rate: 20.16%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-01-10 04:28:48

End at: 2018-01-10 04:29:18

Local clock offset: 0.487 ms

Remote clock offset: 1.982 ms

Below is generated by plot.py at 2018-01-10 08:14:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.14 Mbit/s

95th percentile per-packet one-way delay: 67.320 ms

Loss rate: 17.51%

-- Flow 1:

Average throughput: 53.12 Mbit/s

95th percentile per-packet one-way delay: 65.653 ms

Loss rate: 13.57%

-- Flow 2:

Average throughput: 39.10 Mbit/s

95th percentile per-packet one-way delay: 67.343 ms

Loss rate: 24.61%

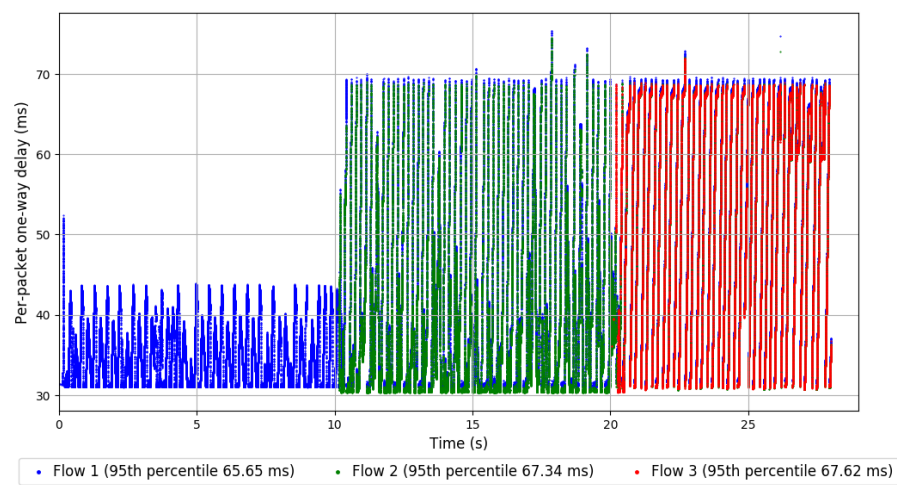
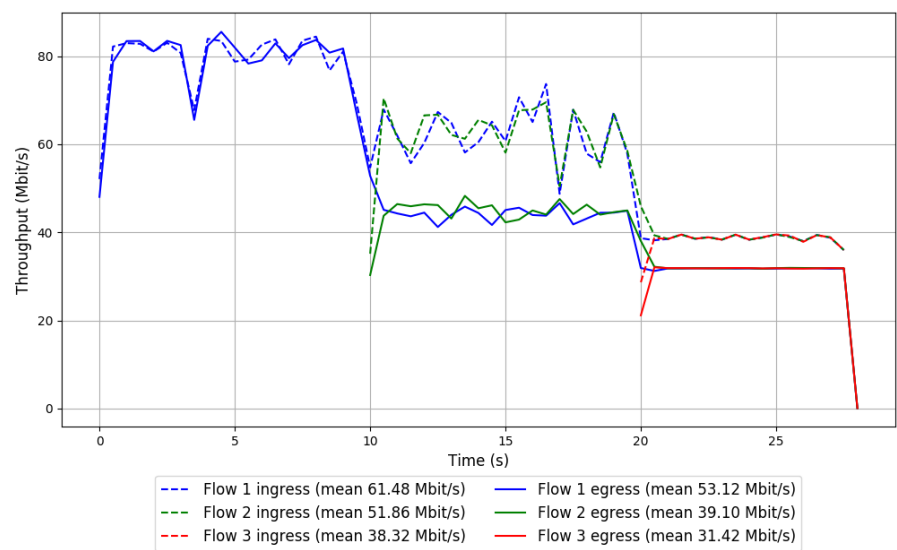
-- Flow 3:

Average throughput: 31.42 Mbit/s

95th percentile per-packet one-way delay: 67.620 ms

Loss rate: 18.00%

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

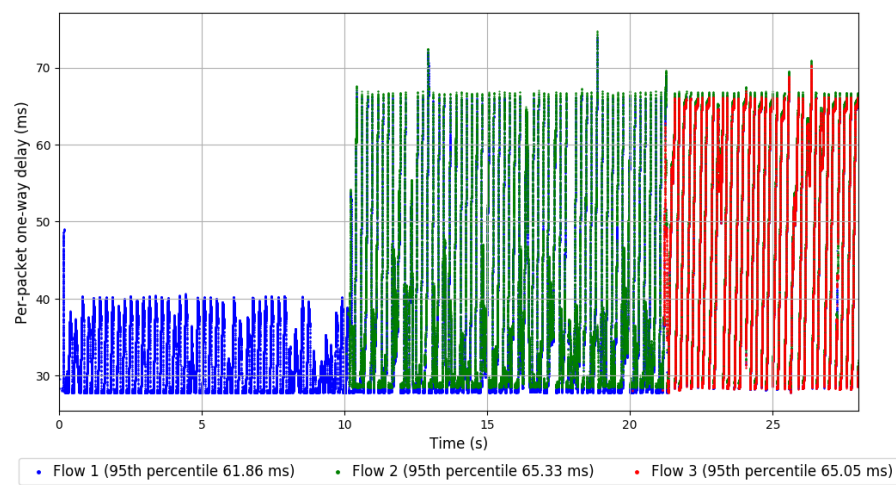
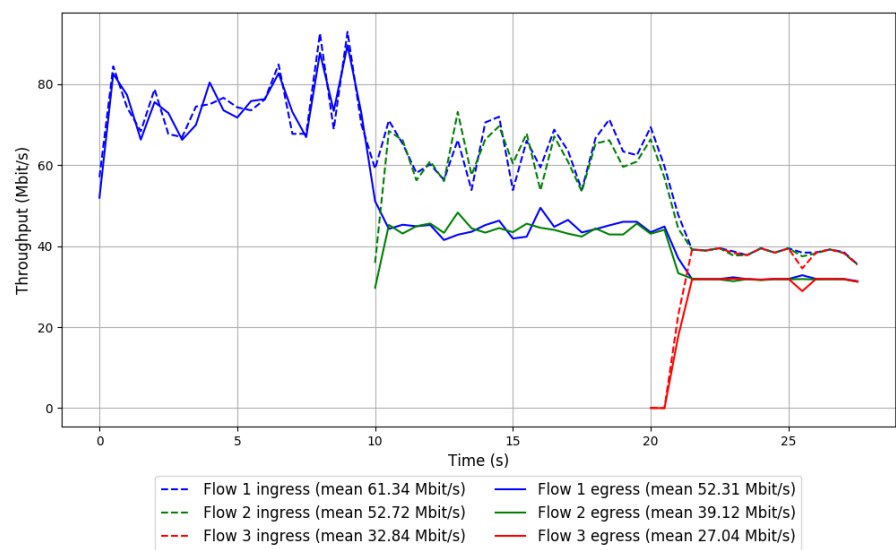


Run 5: Statistics of TaoVA-100x

Start at: 2018-01-10 04:50:02
End at: 2018-01-10 04:50:32
Local clock offset: 0.61 ms
Remote clock offset: -1.465 ms

Below is generated by plot.py at 2018-01-10 08:14:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 85.05 Mbit/s
95th percentile per-packet one-way delay: 64.513 ms
Loss rate: 18.57%
-- Flow 1:
Average throughput: 52.31 Mbit/s
95th percentile per-packet one-way delay: 61.860 ms
Loss rate: 14.72%
-- Flow 2:
Average throughput: 39.12 Mbit/s
95th percentile per-packet one-way delay: 65.329 ms
Loss rate: 25.81%
-- Flow 3:
Average throughput: 27.04 Mbit/s
95th percentile per-packet one-way delay: 65.047 ms
Loss rate: 17.62%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-01-10 05:13:49

End at: 2018-01-10 05:14:19

Local clock offset: 0.477 ms

Remote clock offset: 0.691 ms

Below is generated by plot.py at 2018-01-10 08:14:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.21 Mbit/s

95th percentile per-packet one-way delay: 64.759 ms

Loss rate: 17.30%

-- Flow 1:

Average throughput: 56.05 Mbit/s

95th percentile per-packet one-way delay: 62.040 ms

Loss rate: 12.87%

-- Flow 2:

Average throughput: 37.93 Mbit/s

95th percentile per-packet one-way delay: 66.189 ms

Loss rate: 25.72%

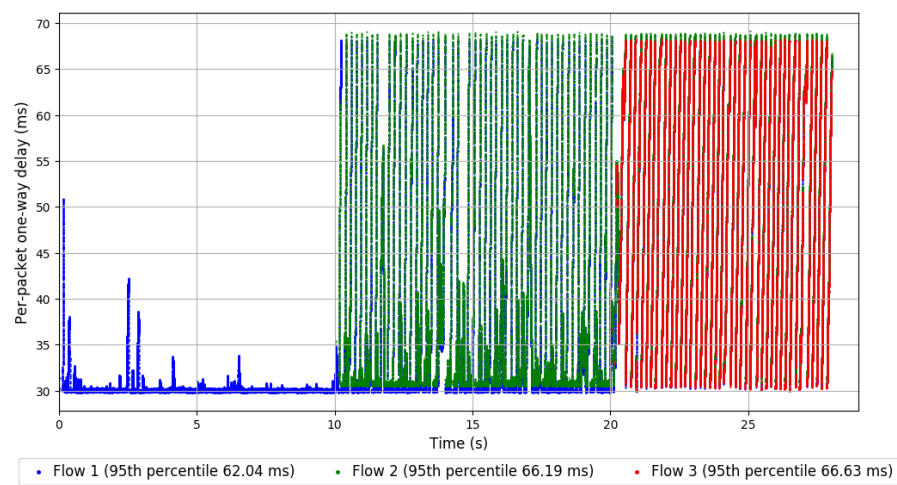
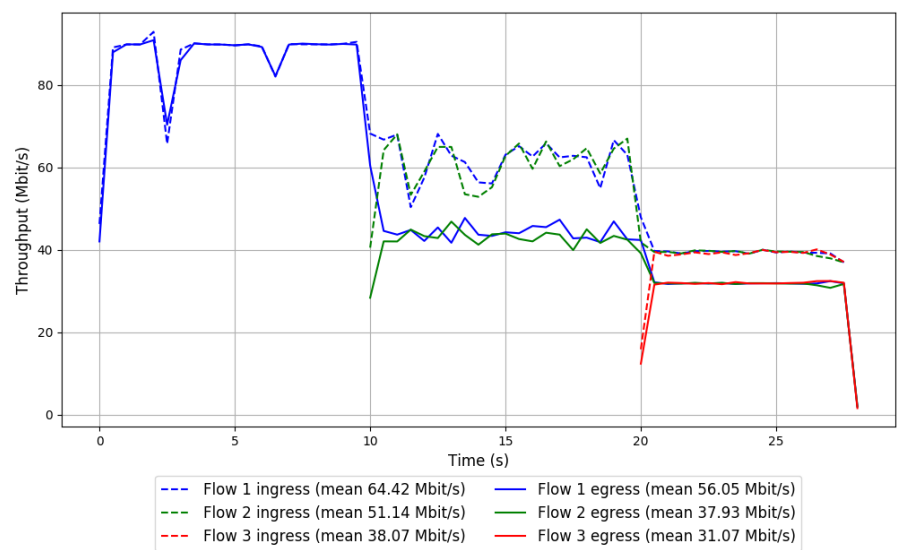
-- Flow 3:

Average throughput: 31.07 Mbit/s

95th percentile per-packet one-way delay: 66.634 ms

Loss rate: 18.16%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-01-10 05:41:05

End at: 2018-01-10 05:41:35

Local clock offset: 0.255 ms

Remote clock offset: 0.749 ms

Below is generated by plot.py at 2018-01-10 08:14:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.91 Mbit/s

95th percentile per-packet one-way delay: 64.228 ms

Loss rate: 16.81%

-- Flow 1:

Average throughput: 55.67 Mbit/s

95th percentile per-packet one-way delay: 61.193 ms

Loss rate: 12.56%

-- Flow 2:

Average throughput: 39.73 Mbit/s

95th percentile per-packet one-way delay: 65.132 ms

Loss rate: 24.13%

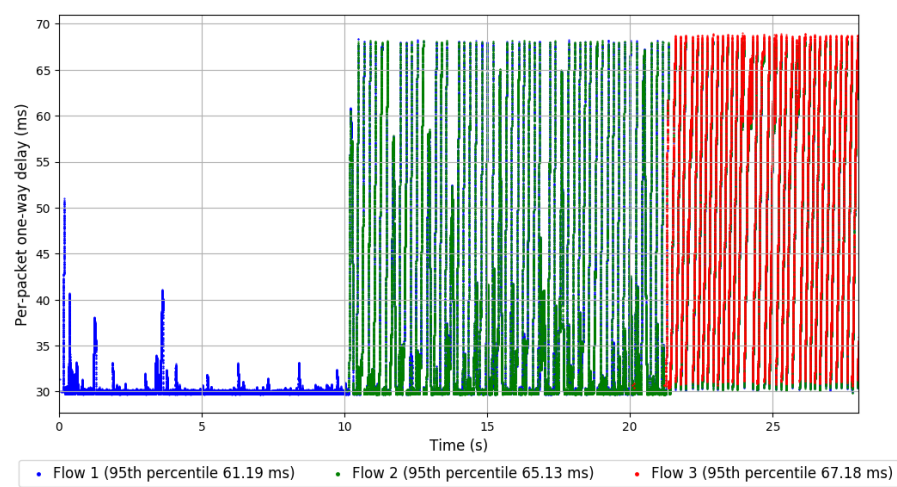
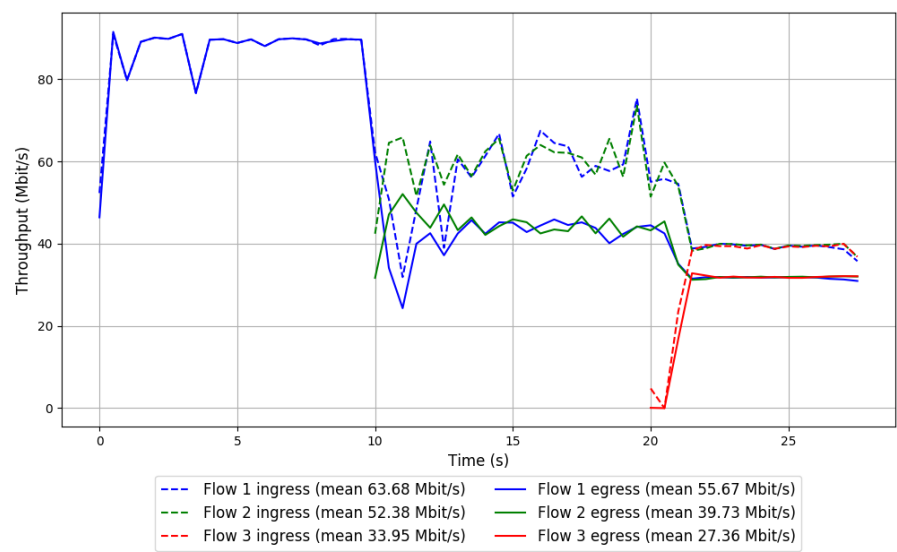
-- Flow 3:

Average throughput: 27.36 Mbit/s

95th percentile per-packet one-way delay: 67.182 ms

Loss rate: 19.36%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-01-10 06:07:17

End at: 2018-01-10 06:07:47

Local clock offset: 0.074 ms

Remote clock offset: 0.662 ms

Below is generated by plot.py at 2018-01-10 08:14:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.15 Mbit/s

95th percentile per-packet one-way delay: 65.955 ms

Loss rate: 18.37%

-- Flow 1:

Average throughput: 54.14 Mbit/s

95th percentile per-packet one-way delay: 63.587 ms

Loss rate: 14.11%

-- Flow 2:

Average throughput: 39.20 Mbit/s

95th percentile per-packet one-way delay: 66.938 ms

Loss rate: 26.20%

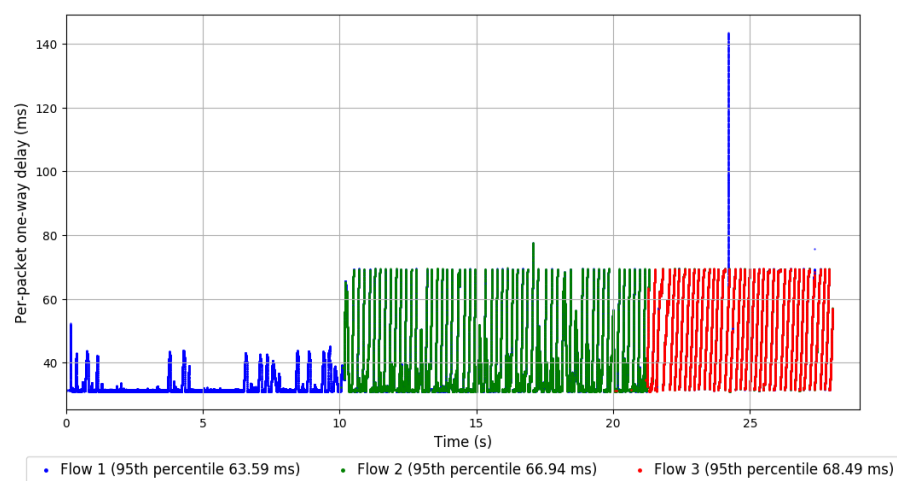
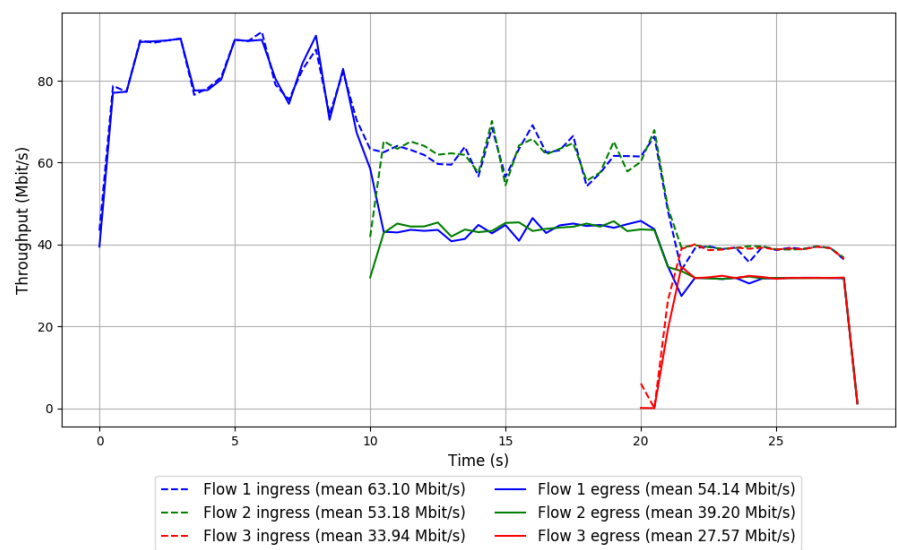
-- Flow 3:

Average throughput: 27.57 Mbit/s

95th percentile per-packet one-way delay: 68.492 ms

Loss rate: 18.51%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-01-10 06:32:31

End at: 2018-01-10 06:33:01

Local clock offset: 0.159 ms

Remote clock offset: 0.131 ms

Below is generated by plot.py at 2018-01-10 08:18:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.91 Mbit/s

95th percentile per-packet one-way delay: 64.373 ms

Loss rate: 18.49%

-- Flow 1:

Average throughput: 55.19 Mbit/s

95th percentile per-packet one-way delay: 62.146 ms

Loss rate: 14.42%

-- Flow 2:

Average throughput: 40.89 Mbit/s

95th percentile per-packet one-way delay: 65.188 ms

Loss rate: 25.77%

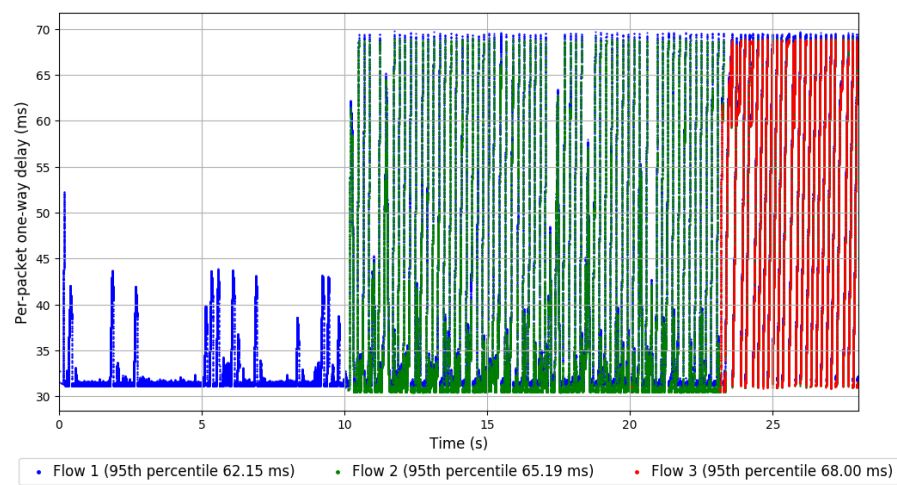
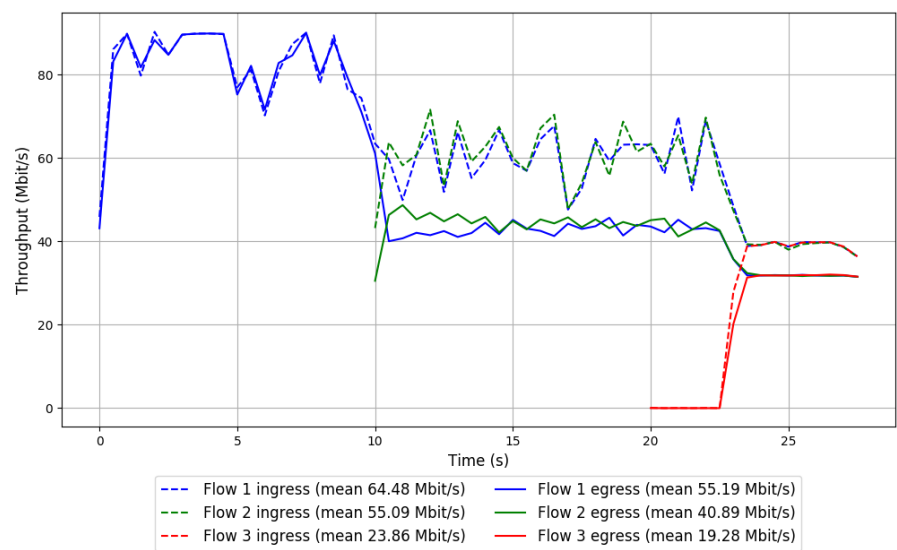
-- Flow 3:

Average throughput: 19.28 Mbit/s

95th percentile per-packet one-way delay: 68.004 ms

Loss rate: 19.20%

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

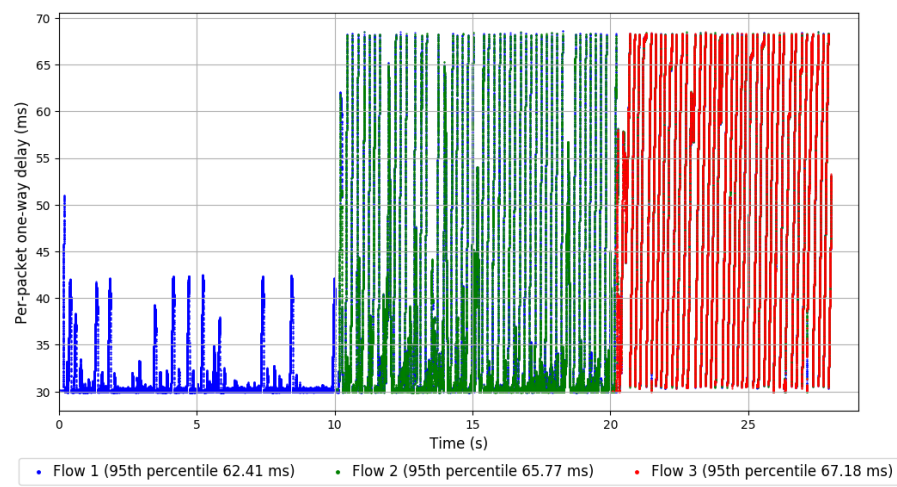
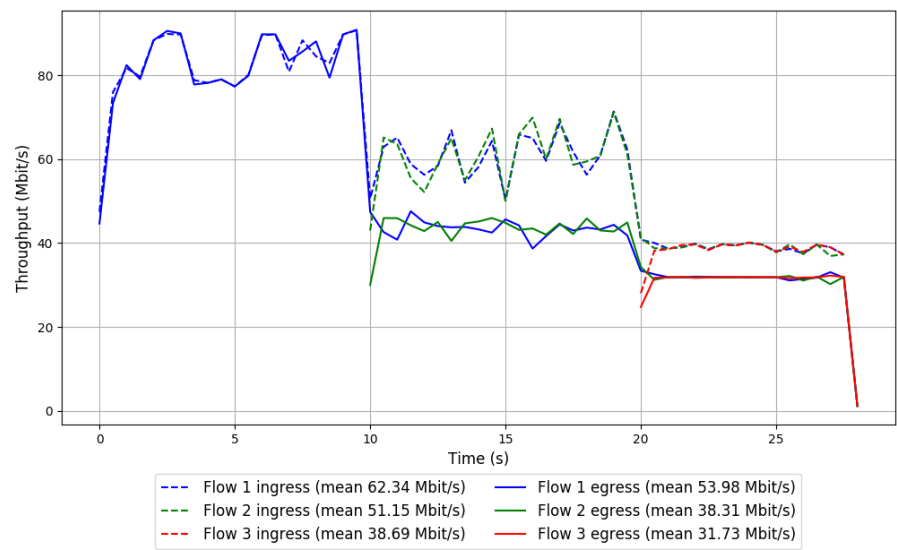


Run 10: Statistics of TaoVA-100x

Start at: 2018-01-10 06:57:59
End at: 2018-01-10 06:58:29
Local clock offset: 0.181 ms
Remote clock offset: -1.538 ms

Below is generated by plot.py at 2018-01-10 08:18:29
Datalink statistics
-- Total of 3 flows:
Average throughput: 87.58 Mbit/s
95th percentile per-packet one-way delay: 64.981 ms
Loss rate: 17.40%
-- Flow 1:
Average throughput: 53.98 Mbit/s
95th percentile per-packet one-way delay: 62.407 ms
Loss rate: 13.33%
-- Flow 2:
Average throughput: 38.31 Mbit/s
95th percentile per-packet one-way delay: 65.771 ms
Loss rate: 25.00%
-- Flow 3:
Average throughput: 31.73 Mbit/s
95th percentile per-packet one-way delay: 67.181 ms
Loss rate: 17.74%

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



Run 1: Statistics of TCP Vegas

Start at: 2018-01-10 03:40:01

End at: 2018-01-10 03:40:31

Local clock offset: -0.027 ms

Remote clock offset: 2.234 ms

Below is generated by plot.py at 2018-01-10 08:18:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 46.28 Mbit/s

95th percentile per-packet one-way delay: 45.871 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 20.57 Mbit/s

95th percentile per-packet one-way delay: 5776.551 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 38.16 Mbit/s

95th percentile per-packet one-way delay: 52.114 ms

Loss rate: 0.08%

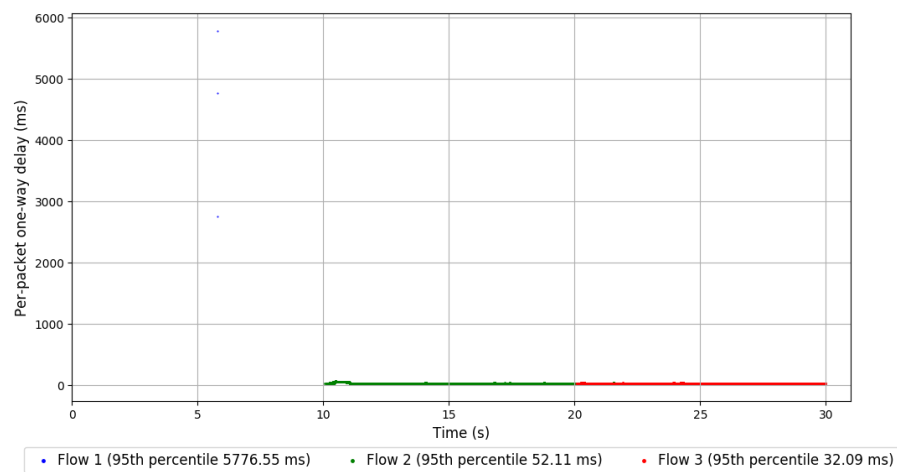
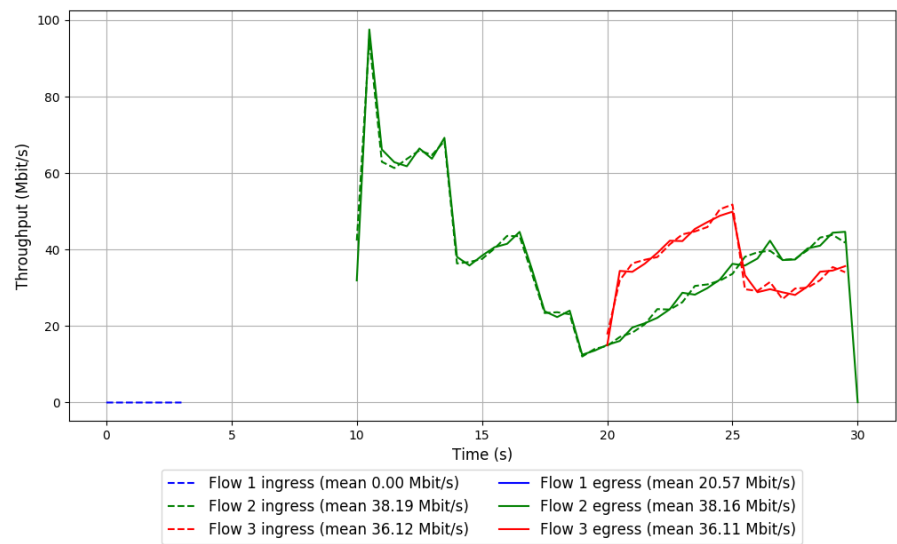
-- Flow 3:

Average throughput: 36.11 Mbit/s

95th percentile per-packet one-way delay: 32.094 ms

Loss rate: 0.02%

Run 1: Report of TCP Vegas — Data Link

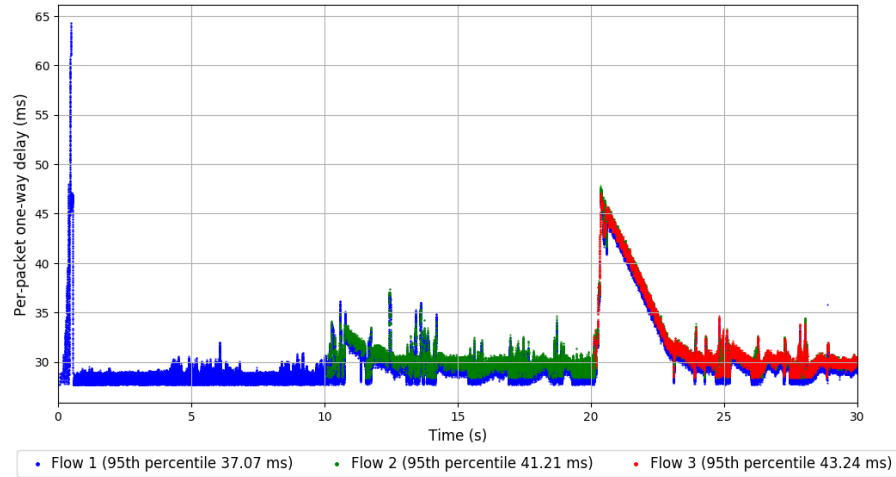
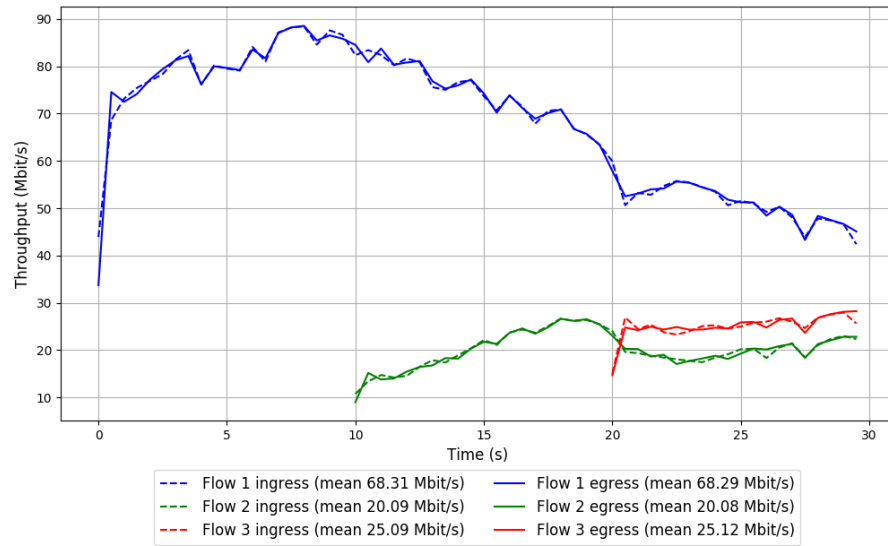


Run 2: Statistics of TCP Vegas

Start at: 2018-01-10 04:02:28
End at: 2018-01-10 04:02:58
Local clock offset: 0.266 ms
Remote clock offset: -0.002 ms

Below is generated by plot.py at 2018-01-10 08:18:29
Datalink statistics
-- Total of 3 flows:
Average throughput: 90.00 Mbit/s
95th percentile per-packet one-way delay: 39.511 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 68.29 Mbit/s
95th percentile per-packet one-way delay: 37.068 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 20.08 Mbit/s
95th percentile per-packet one-way delay: 41.209 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 25.12 Mbit/s
95th percentile per-packet one-way delay: 43.242 ms
Loss rate: 0.00%

Run 2: Report of TCP Vegas — Data Link

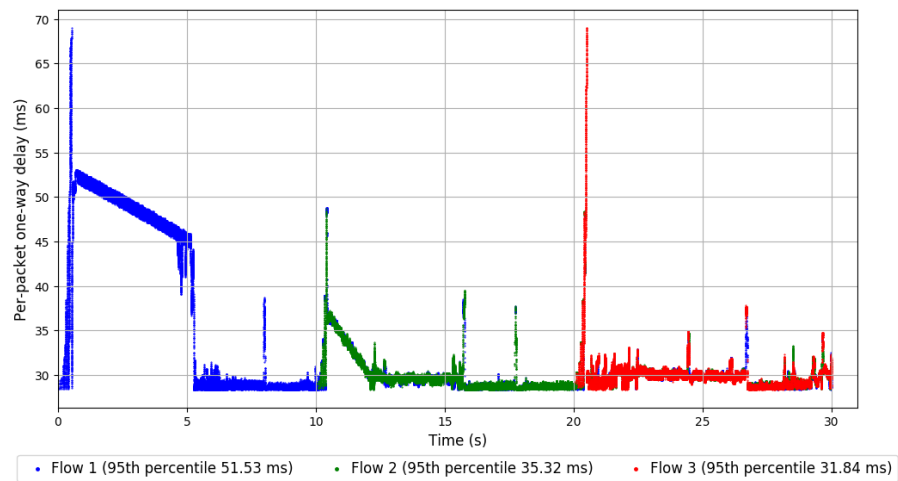
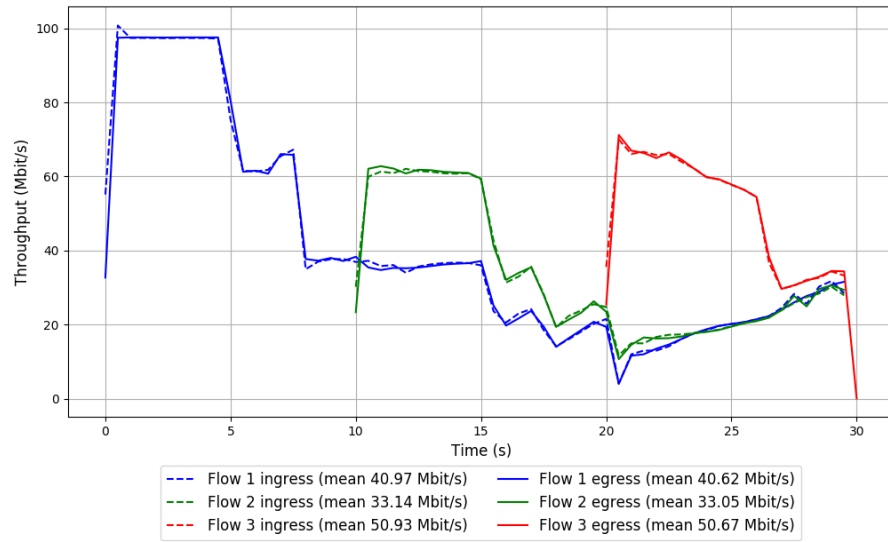


Run 3: Statistics of TCP Vegas

Start at: 2018-01-10 04:24:30
End at: 2018-01-10 04:25:00
Local clock offset: 0.481 ms
Remote clock offset: -0.502 ms

Below is generated by plot.py at 2018-01-10 08:18:29
Datalink statistics
-- Total of 3 flows:
Average throughput: 79.40 Mbit/s
95th percentile per-packet one-way delay: 50.780 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 40.62 Mbit/s
95th percentile per-packet one-way delay: 51.533 ms
Loss rate: 0.85%
-- Flow 2:
Average throughput: 33.05 Mbit/s
95th percentile per-packet one-way delay: 35.324 ms
Loss rate: 0.25%
-- Flow 3:
Average throughput: 50.67 Mbit/s
95th percentile per-packet one-way delay: 31.839 ms
Loss rate: 0.50%

Run 3: Report of TCP Vegas — Data Link

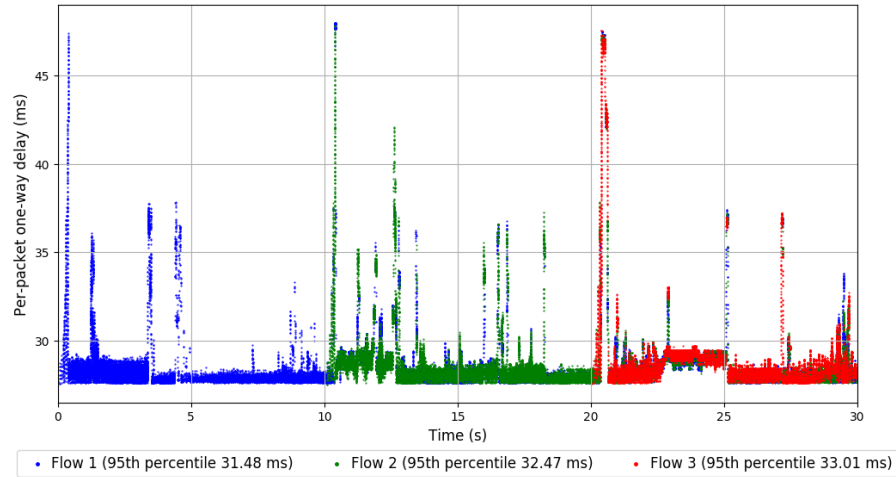
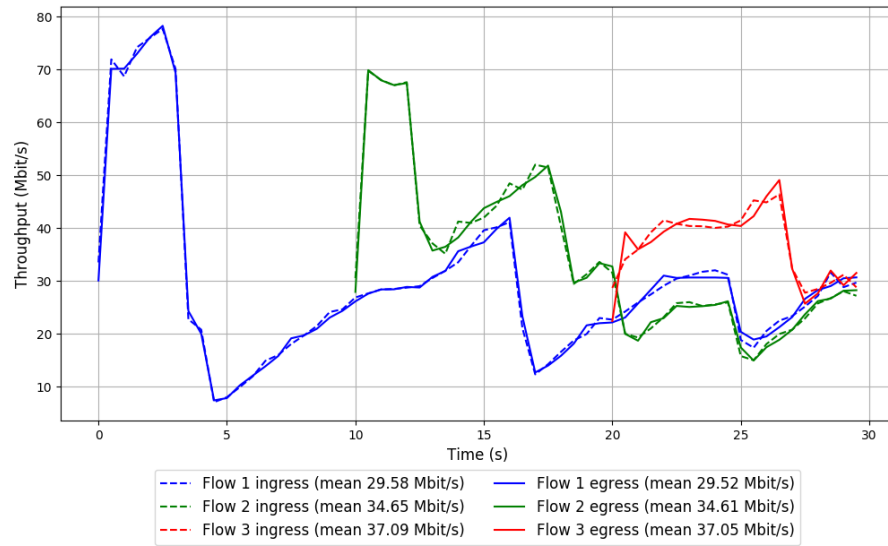


Run 4: Statistics of TCP Vegas

Start at: 2018-01-10 04:45:44
End at: 2018-01-10 04:46:14
Local clock offset: 0.58 ms
Remote clock offset: -1.596 ms

Below is generated by plot.py at 2018-01-10 08:18:29
Datalink statistics
-- Total of 3 flows:
Average throughput: 64.85 Mbit/s
95th percentile per-packet one-way delay: 32.036 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 29.52 Mbit/s
95th percentile per-packet one-way delay: 31.482 ms
Loss rate: 0.20%
-- Flow 2:
Average throughput: 34.61 Mbit/s
95th percentile per-packet one-way delay: 32.468 ms
Loss rate: 0.11%
-- Flow 3:
Average throughput: 37.05 Mbit/s
95th percentile per-packet one-way delay: 33.008 ms
Loss rate: 0.12%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-01-10 05:08:28

End at: 2018-01-10 05:08:58

Local clock offset: 0.613 ms

Remote clock offset: 0.684 ms

Below is generated by plot.py at 2018-01-10 08:18:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 18.86 Mbit/s

95th percentile per-packet one-way delay: 31.314 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 10.05 Mbit/s

95th percentile per-packet one-way delay: 31.332 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 8.76 Mbit/s

95th percentile per-packet one-way delay: 30.726 ms

Loss rate: 0.02%

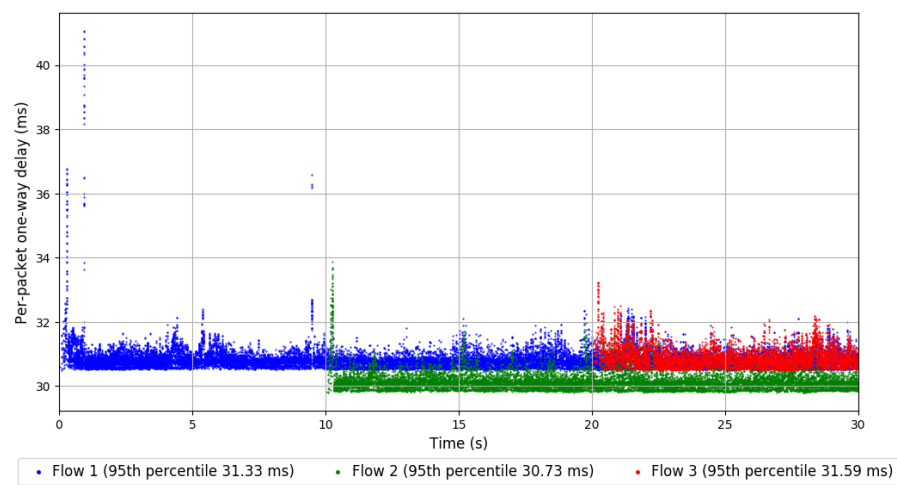
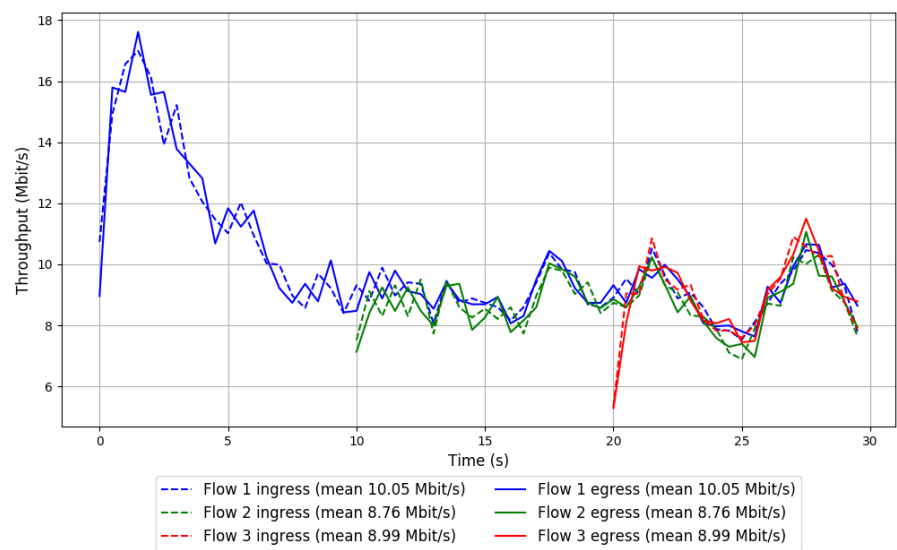
-- Flow 3:

Average throughput: 8.99 Mbit/s

95th percentile per-packet one-way delay: 31.594 ms

Loss rate: 0.03%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-01-10 05:35:16

End at: 2018-01-10 05:35:47

Local clock offset: 0.308 ms

Remote clock offset: 1.264 ms

Below is generated by plot.py at 2018-01-10 08:18:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 67.93 Mbit/s

95th percentile per-packet one-way delay: 45.323 ms

Loss rate: 0.36%

-- Flow 1:

Average throughput: 8.98 Mbit/s

95th percentile per-packet one-way delay: 39.582 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 83.54 Mbit/s

95th percentile per-packet one-way delay: 45.730 ms

Loss rate: 0.43%

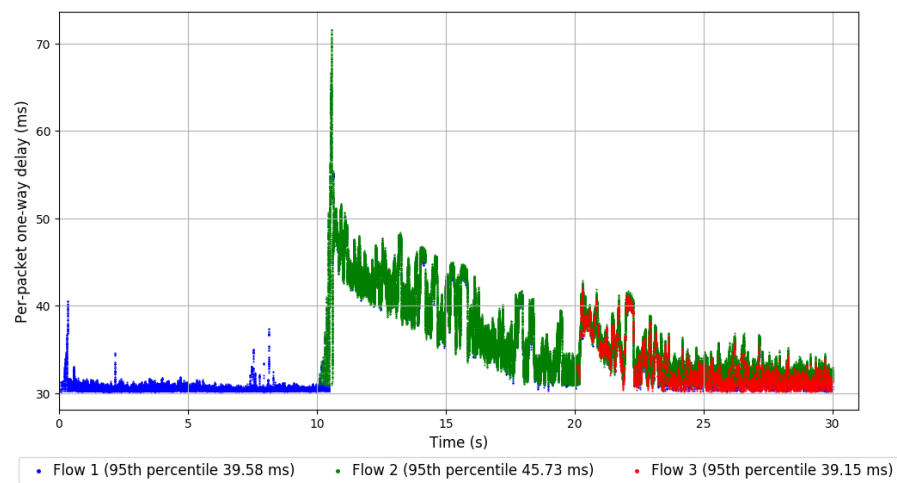
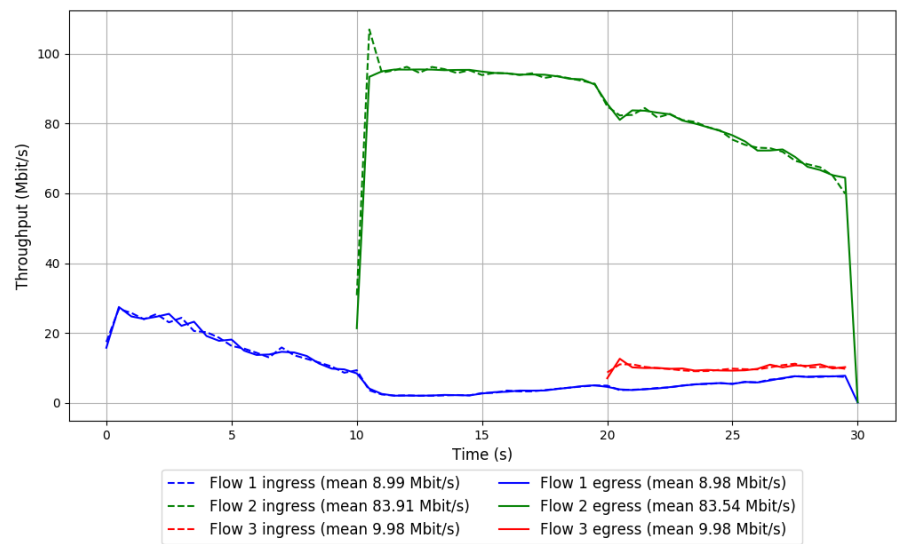
-- Flow 3:

Average throughput: 9.98 Mbit/s

95th percentile per-packet one-way delay: 39.146 ms

Loss rate: 0.00%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-01-10 06:02:10

End at: 2018-01-10 06:02:40

Local clock offset: 0.034 ms

Remote clock offset: 0.231 ms

Below is generated by plot.py at 2018-01-10 08:18:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 54.59 Mbit/s

95th percentile per-packet one-way delay: 32.281 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 35.42 Mbit/s

95th percentile per-packet one-way delay: 32.425 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 16.97 Mbit/s

95th percentile per-packet one-way delay: 32.179 ms

Loss rate: 0.07%

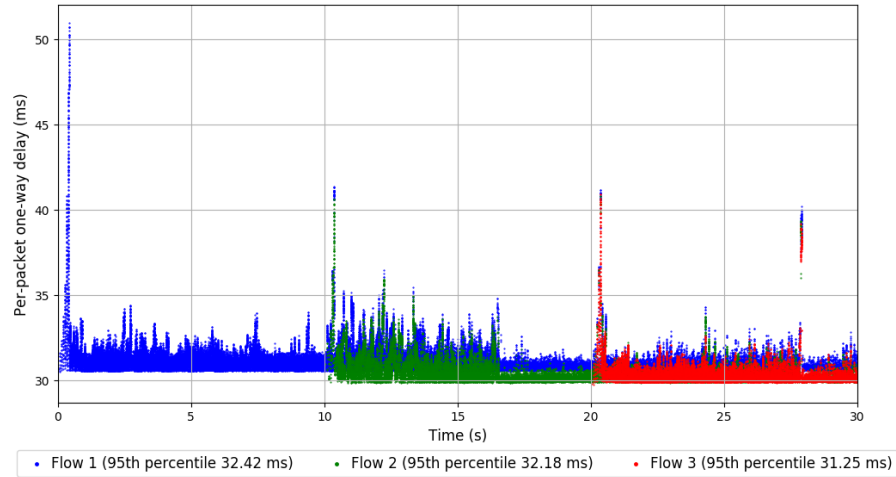
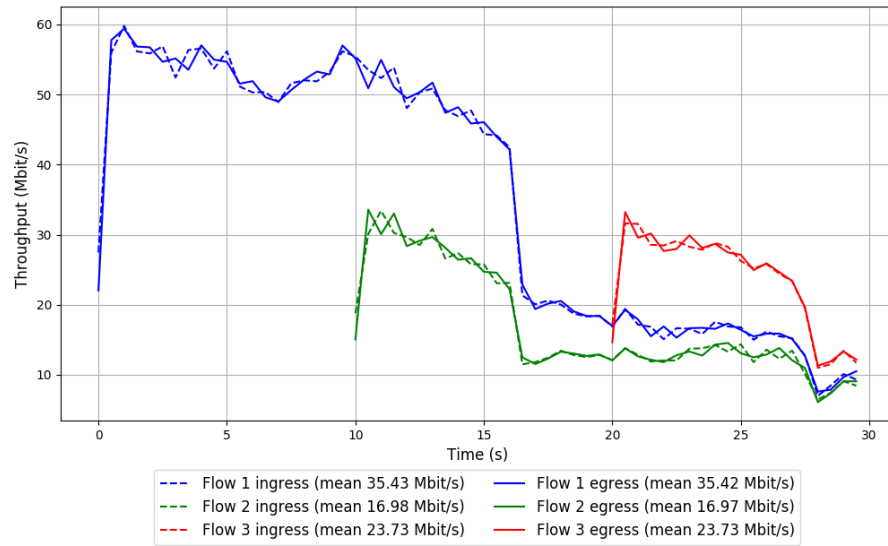
-- Flow 3:

Average throughput: 23.73 Mbit/s

95th percentile per-packet one-way delay: 31.245 ms

Loss rate: 0.03%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-01-10 06:27:23

End at: 2018-01-10 06:27:53

Local clock offset: 0.207 ms

Remote clock offset: 0.151 ms

Below is generated by plot.py at 2018-01-10 08:18:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 39.19 Mbit/s

95th percentile per-packet one-way delay: 32.880 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 16.69 Mbit/s

95th percentile per-packet one-way delay: 32.735 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 14.18 Mbit/s

95th percentile per-packet one-way delay: 32.522 ms

Loss rate: 0.00%

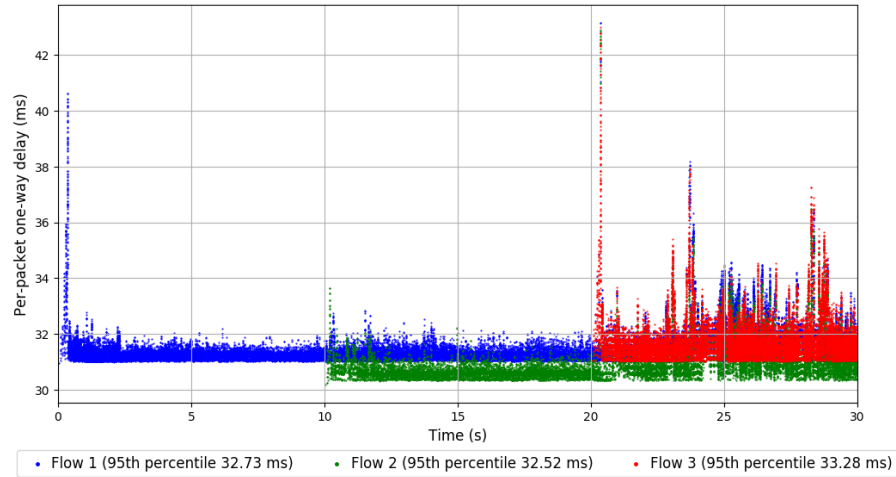
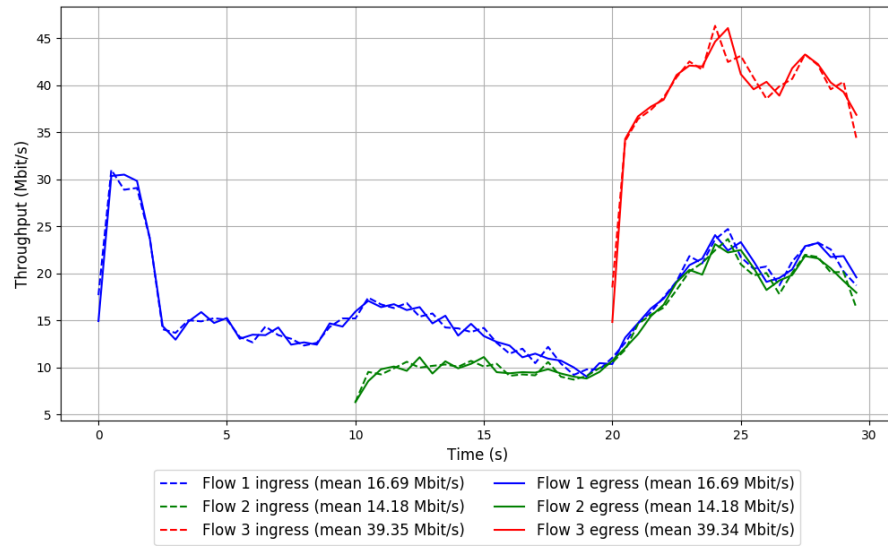
-- Flow 3:

Average throughput: 39.34 Mbit/s

95th percentile per-packet one-way delay: 33.279 ms

Loss rate: 0.00%

Run 8: Report of TCP Vegas — Data Link

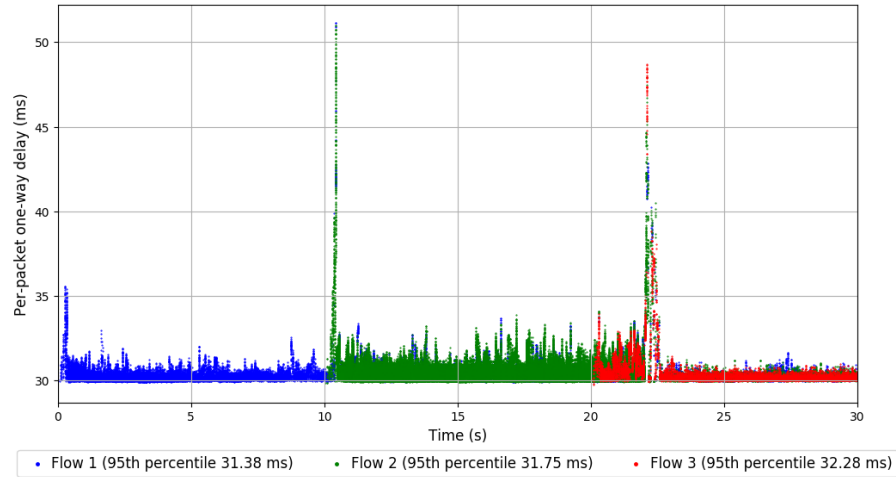
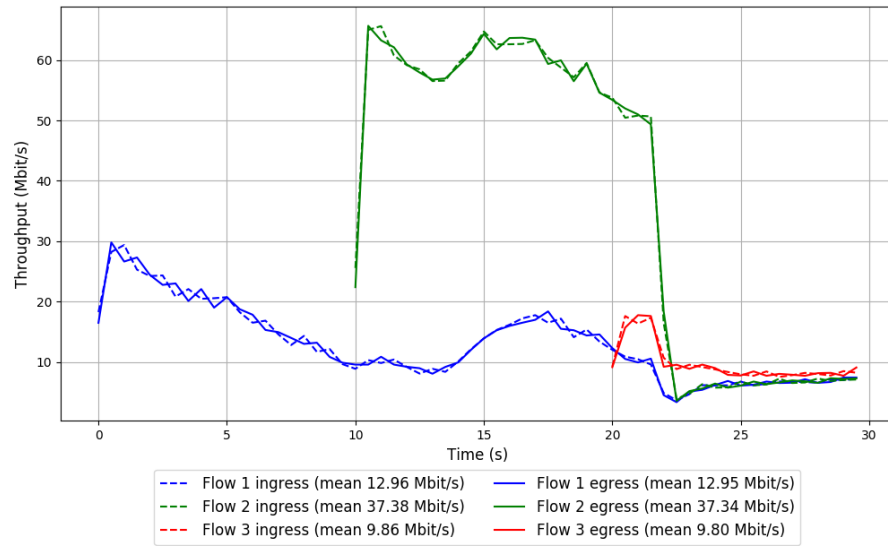


Run 9: Statistics of TCP Vegas

Start at: 2018-01-10 06:52:40
End at: 2018-01-10 06:53:10
Local clock offset: 0.165 ms
Remote clock offset: -1.153 ms

Below is generated by plot.py at 2018-01-10 08:18:29
Datalink statistics
-- Total of 3 flows:
Average throughput: 41.06 Mbit/s
95th percentile per-packet one-way delay: 31.701 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 12.95 Mbit/s
95th percentile per-packet one-way delay: 31.379 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 37.34 Mbit/s
95th percentile per-packet one-way delay: 31.745 ms
Loss rate: 0.12%
-- Flow 3:
Average throughput: 9.80 Mbit/s
95th percentile per-packet one-way delay: 32.282 ms
Loss rate: 0.54%

Run 9: Report of TCP Vegas — Data Link

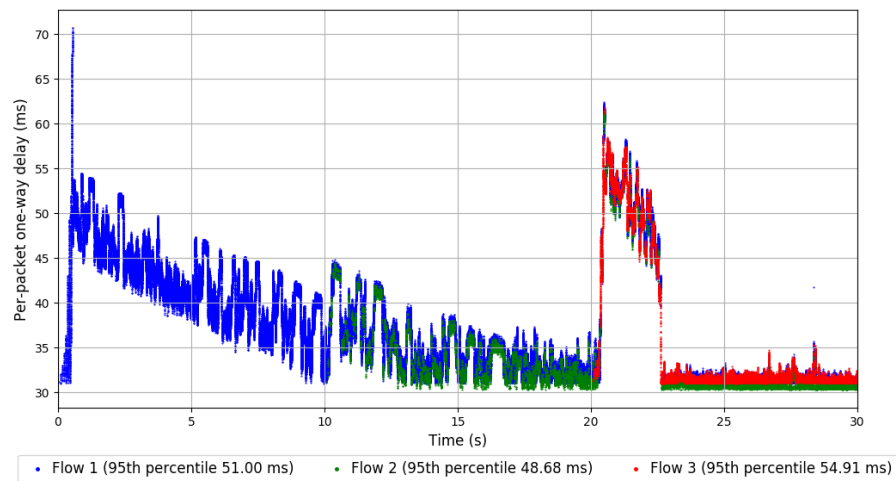
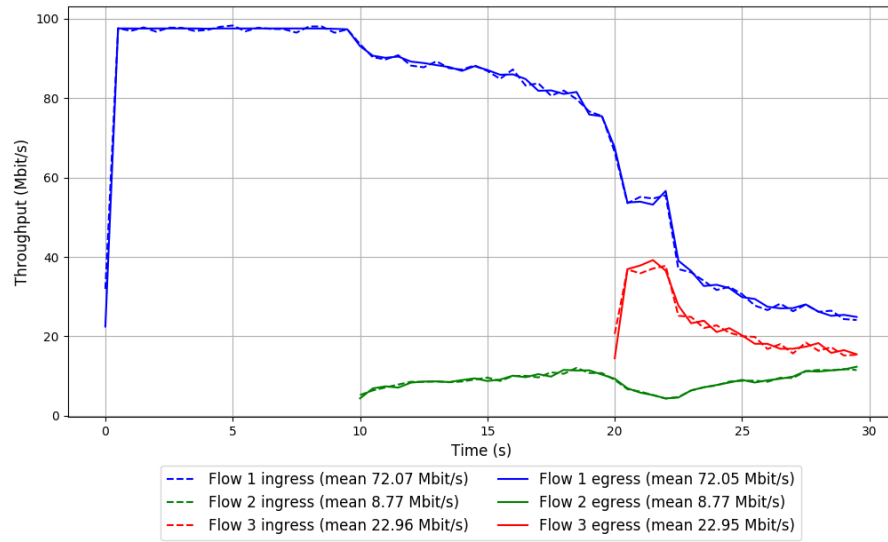


Run 10: Statistics of TCP Vegas

Start at: 2018-01-10 07:18:04
End at: 2018-01-10 07:18:34
Local clock offset: 0.127 ms
Remote clock offset: -2.645 ms

Below is generated by plot.py at 2018-01-10 08:18:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 85.50 Mbit/s
95th percentile per-packet one-way delay: 51.721 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 72.05 Mbit/s
95th percentile per-packet one-way delay: 51.004 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 8.77 Mbit/s
95th percentile per-packet one-way delay: 48.682 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 22.95 Mbit/s
95th percentile per-packet one-way delay: 54.906 ms
Loss rate: 0.04%

Run 10: Report of TCP Vegas — Data Link

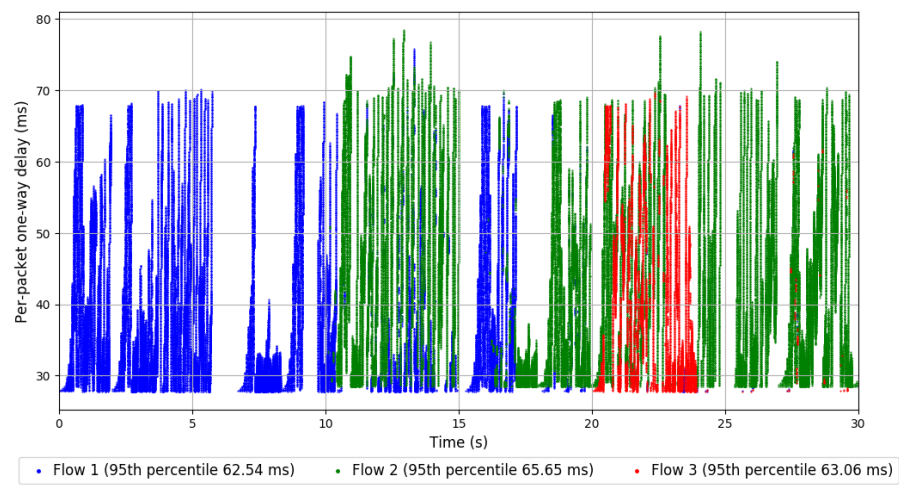
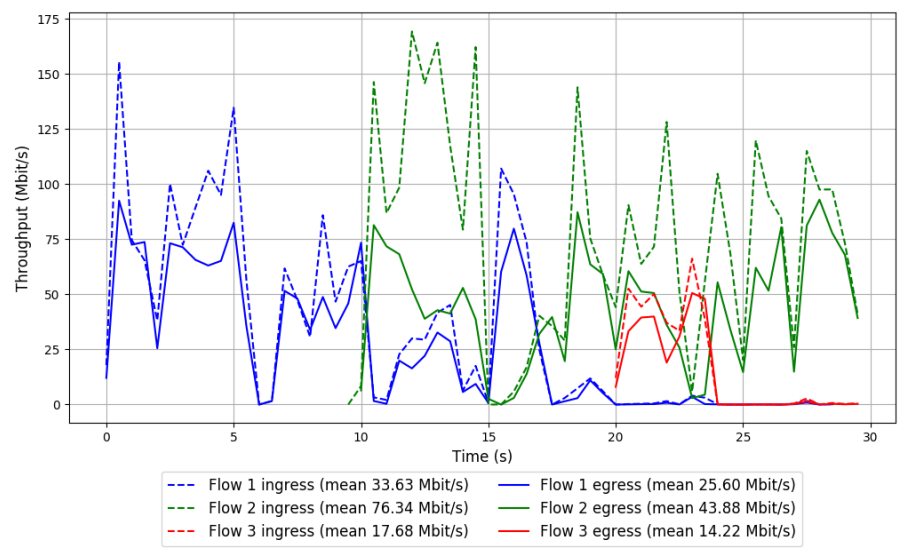


Run 1: Statistics of Verus

Start at: 2018-01-10 03:27:55
End at: 2018-01-10 03:28:25
Local clock offset: 0.063 ms
Remote clock offset: -0.479 ms

Below is generated by plot.py at 2018-01-10 08:18:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 58.19 Mbit/s
95th percentile per-packet one-way delay: 64.376 ms
Loss rate: 34.69%
-- Flow 1:
Average throughput: 25.60 Mbit/s
95th percentile per-packet one-way delay: 62.543 ms
Loss rate: 24.97%
-- Flow 2:
Average throughput: 43.88 Mbit/s
95th percentile per-packet one-way delay: 65.646 ms
Loss rate: 42.56%
-- Flow 3:
Average throughput: 14.22 Mbit/s
95th percentile per-packet one-way delay: 63.064 ms
Loss rate: 20.06%

Run 1: Report of Verus — Data Link

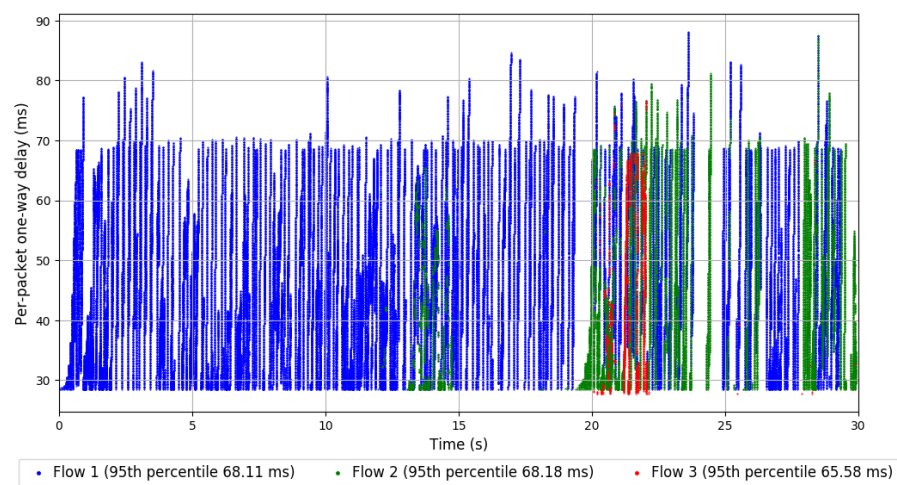
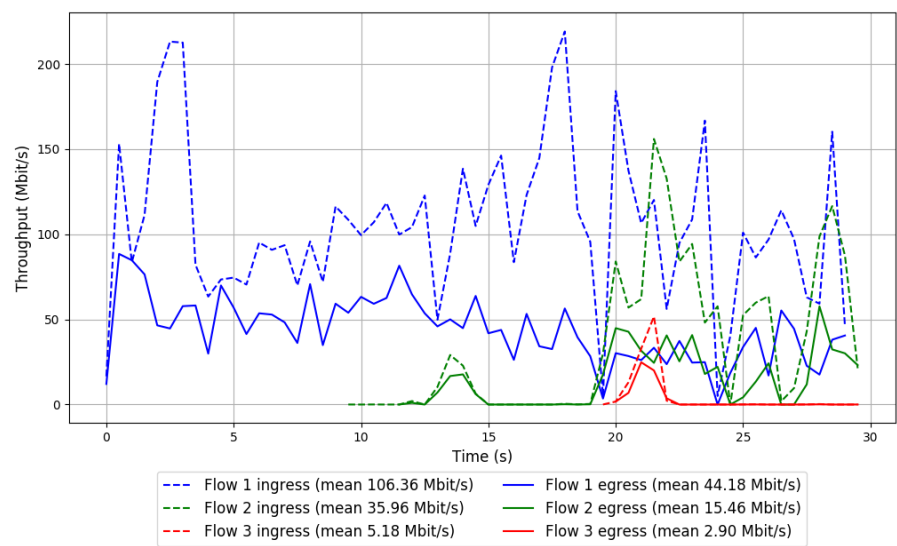


Run 2: Statistics of Verus

Start at: 2018-01-10 03:51:00
End at: 2018-01-10 03:51:30
Local clock offset: -0.004 ms
Remote clock offset: -0.133 ms

Below is generated by plot.py at 2018-01-10 08:18:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 53.55 Mbit/s
95th percentile per-packet one-way delay: 68.077 ms
Loss rate: 58.75%
-- Flow 1:
Average throughput: 44.18 Mbit/s
95th percentile per-packet one-way delay: 68.107 ms
Loss rate: 58.41%
-- Flow 2:
Average throughput: 15.46 Mbit/s
95th percentile per-packet one-way delay: 68.179 ms
Loss rate: 61.30%
-- Flow 3:
Average throughput: 2.90 Mbit/s
95th percentile per-packet one-way delay: 65.585 ms
Loss rate: 43.97%

Run 2: Report of Verus — Data Link

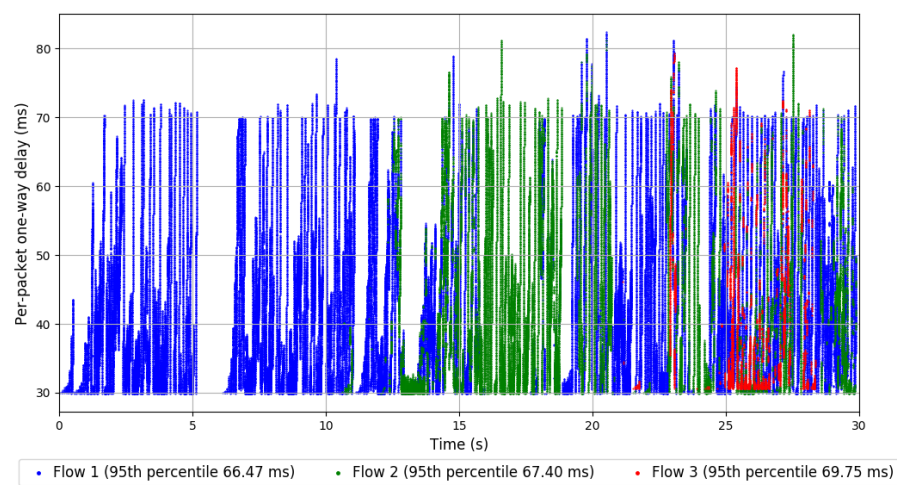
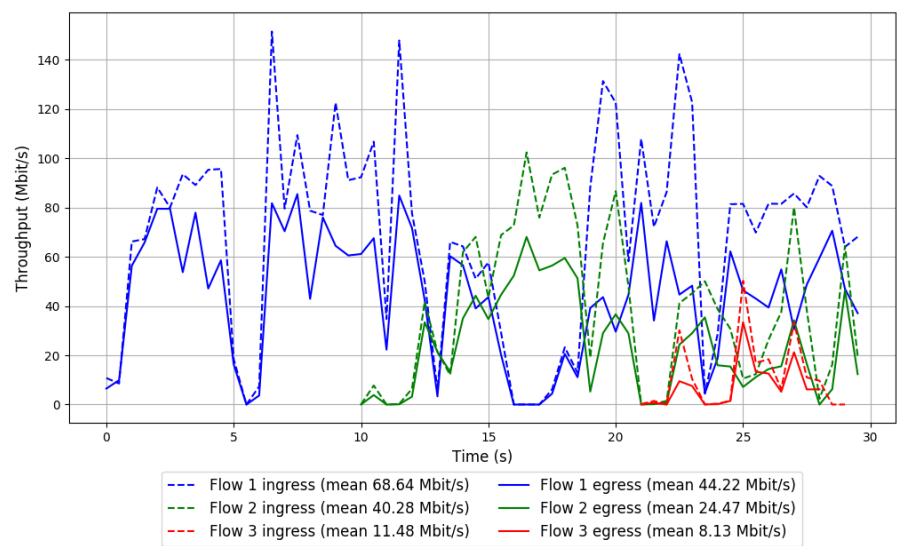


Run 3: Statistics of Verus

Start at: 2018-01-10 04:13:15
End at: 2018-01-10 04:13:45
Local clock offset: 0.291 ms
Remote clock offset: 1.906 ms

Below is generated by plot.py at 2018-01-10 08:18:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 62.27 Mbit/s
95th percentile per-packet one-way delay: 66.812 ms
Loss rate: 36.61%
-- Flow 1:
Average throughput: 44.22 Mbit/s
95th percentile per-packet one-way delay: 66.474 ms
Loss rate: 35.54%
-- Flow 2:
Average throughput: 24.47 Mbit/s
95th percentile per-packet one-way delay: 67.404 ms
Loss rate: 39.21%
-- Flow 3:
Average throughput: 8.13 Mbit/s
95th percentile per-packet one-way delay: 69.752 ms
Loss rate: 38.16%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-01-10 04:34:42

End at: 2018-01-10 04:35:12

Local clock offset: 0.418 ms

Remote clock offset: 1.562 ms

Below is generated by plot.py at 2018-01-10 08:18:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 62.25 Mbit/s

95th percentile per-packet one-way delay: 67.994 ms

Loss rate: 31.12%

-- Flow 1:

Average throughput: 28.69 Mbit/s

95th percentile per-packet one-way delay: 68.845 ms

Loss rate: 34.08%

-- Flow 2:

Average throughput: 33.48 Mbit/s

95th percentile per-packet one-way delay: 66.687 ms

Loss rate: 29.68%

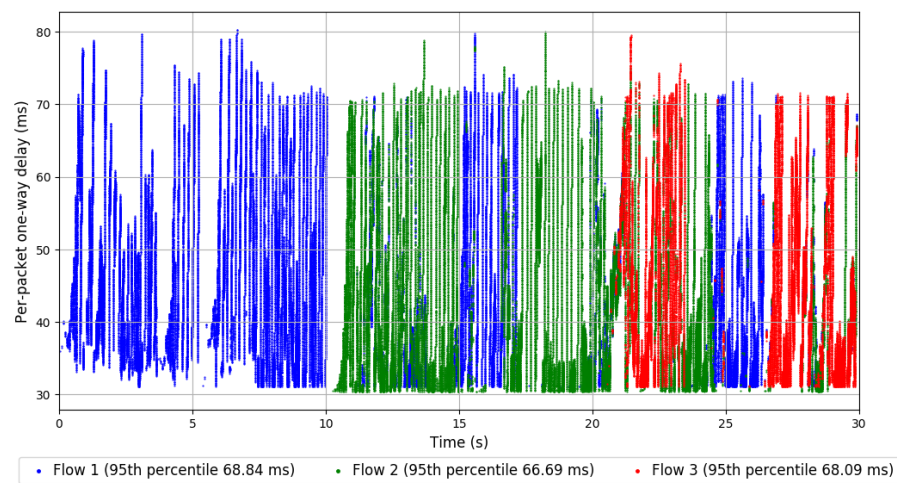
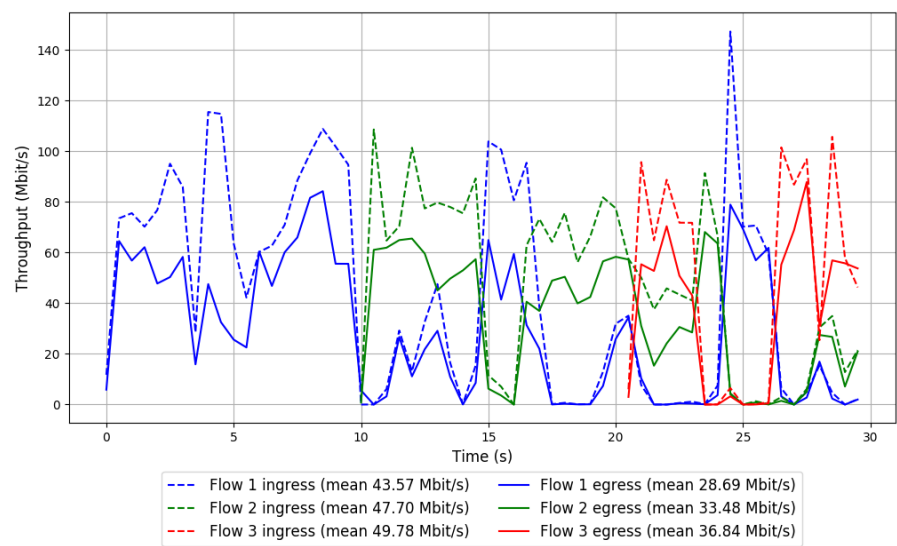
-- Flow 3:

Average throughput: 36.84 Mbit/s

95th percentile per-packet one-way delay: 68.094 ms

Loss rate: 25.71%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-01-10 04:56:34

End at: 2018-01-10 04:57:04

Local clock offset: 0.652 ms

Remote clock offset: 0.558 ms

Below is generated by plot.py at 2018-01-10 08:19:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 59.47 Mbit/s

95th percentile per-packet one-way delay: 66.850 ms

Loss rate: 42.08%

-- Flow 1:

Average throughput: 33.00 Mbit/s

95th percentile per-packet one-way delay: 65.974 ms

Loss rate: 36.47%

-- Flow 2:

Average throughput: 31.60 Mbit/s

95th percentile per-packet one-way delay: 68.222 ms

Loss rate: 50.91%

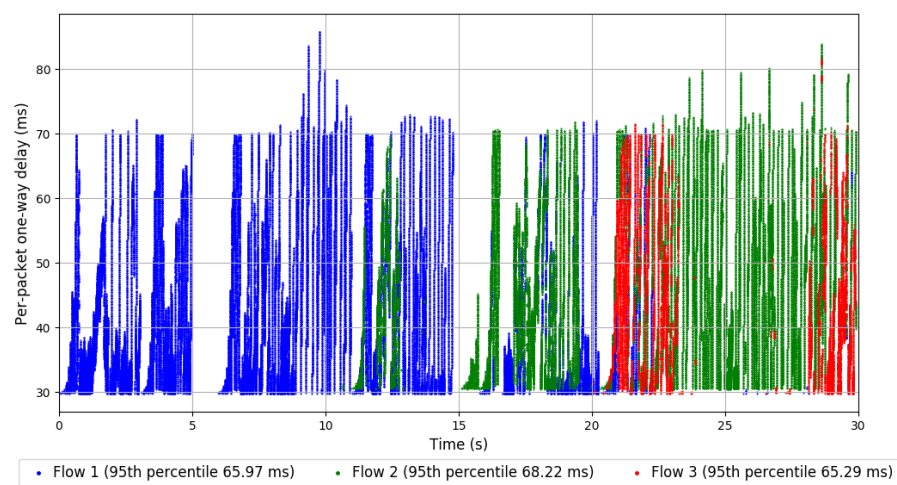
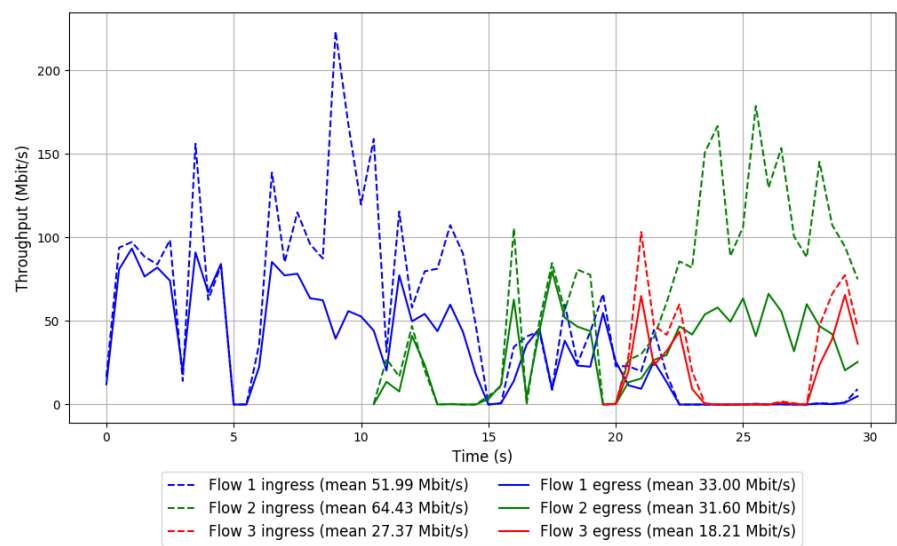
-- Flow 3:

Average throughput: 18.21 Mbit/s

95th percentile per-packet one-way delay: 65.293 ms

Loss rate: 33.54%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-01-10 05:22:13

End at: 2018-01-10 05:22:43

Local clock offset: 0.472 ms

Remote clock offset: 0.94 ms

Below is generated by plot.py at 2018-01-10 08:20:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 58.11 Mbit/s

95th percentile per-packet one-way delay: 65.796 ms

Loss rate: 30.49%

-- Flow 1:

Average throughput: 33.68 Mbit/s

95th percentile per-packet one-way delay: 64.441 ms

Loss rate: 21.05%

-- Flow 2:

Average throughput: 18.66 Mbit/s

95th percentile per-packet one-way delay: 66.142 ms

Loss rate: 30.83%

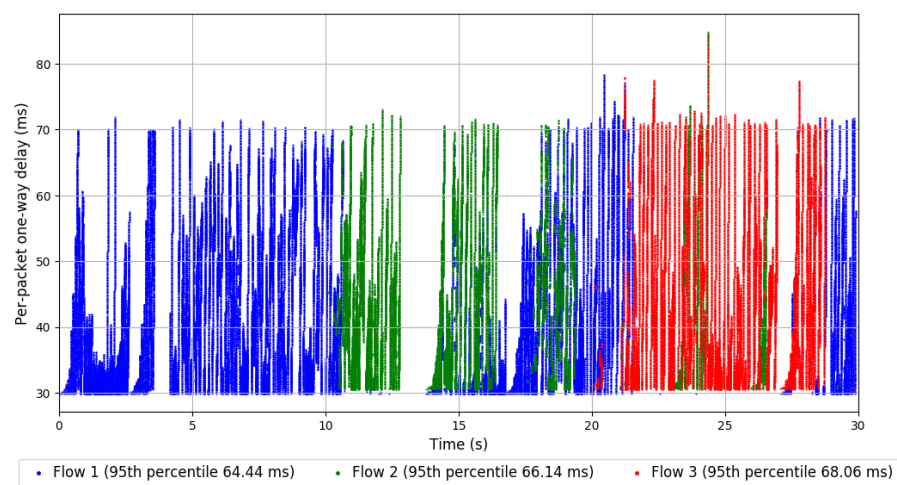
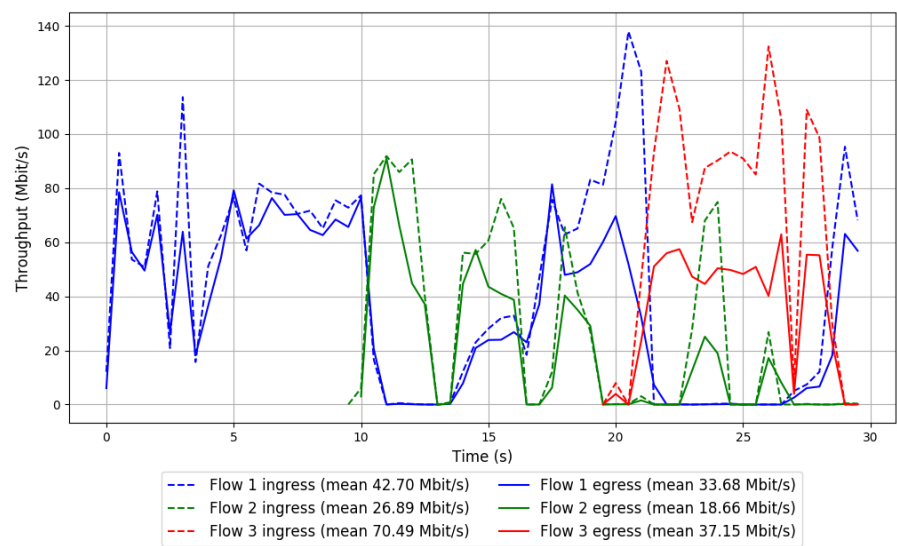
-- Flow 3:

Average throughput: 37.15 Mbit/s

95th percentile per-packet one-way delay: 68.058 ms

Loss rate: 47.64%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-01-10 05:49:39

End at: 2018-01-10 05:50:09

Local clock offset: 0.15 ms

Remote clock offset: 0.727 ms

Below is generated by plot.py at 2018-01-10 08:20:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 45.78 Mbit/s

95th percentile per-packet one-way delay: 73.169 ms

Loss rate: 68.33%

-- Flow 1:

Average throughput: 39.13 Mbit/s

95th percentile per-packet one-way delay: 74.117 ms

Loss rate: 70.91%

-- Flow 2:

Average throughput: 7.75 Mbit/s

95th percentile per-packet one-way delay: 67.193 ms

Loss rate: 32.06%

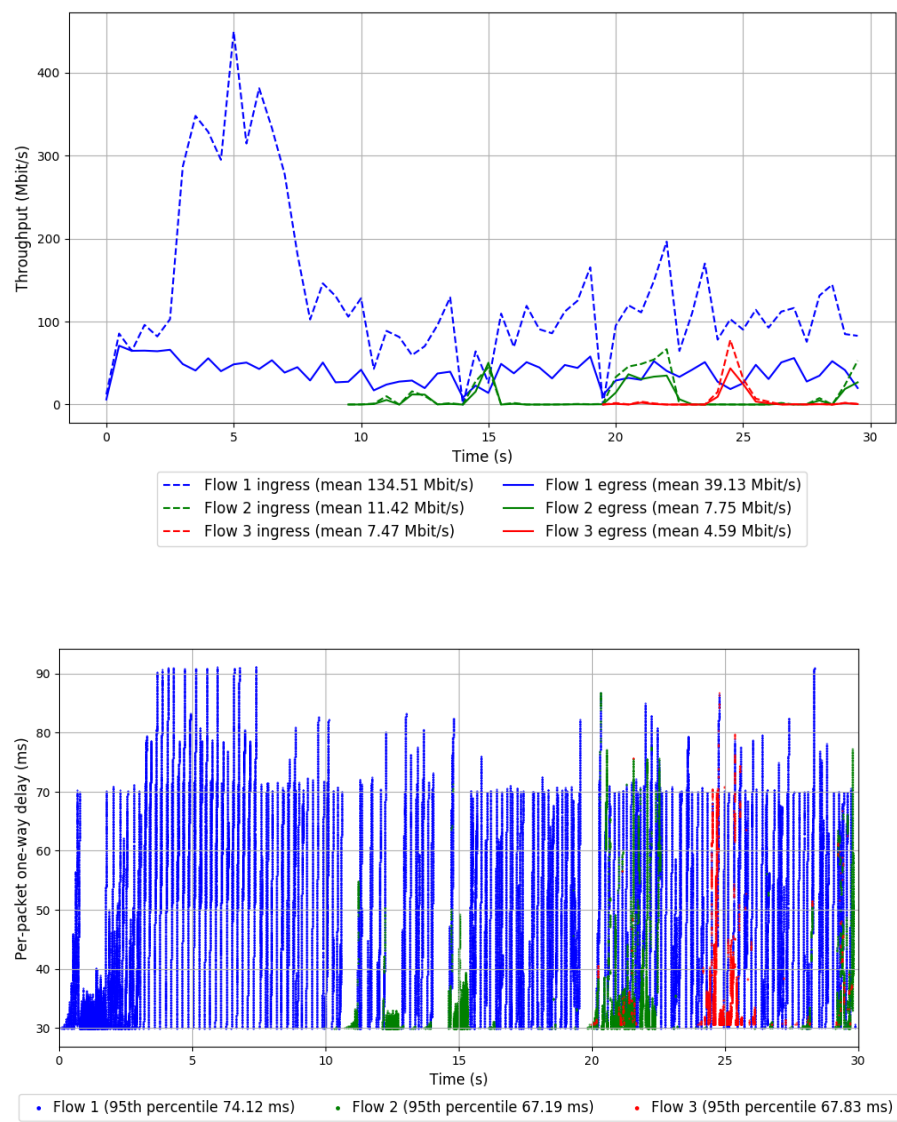
-- Flow 3:

Average throughput: 4.59 Mbit/s

95th percentile per-packet one-way delay: 67.832 ms

Loss rate: 38.64%

Run 7: Report of Verus — Data Link

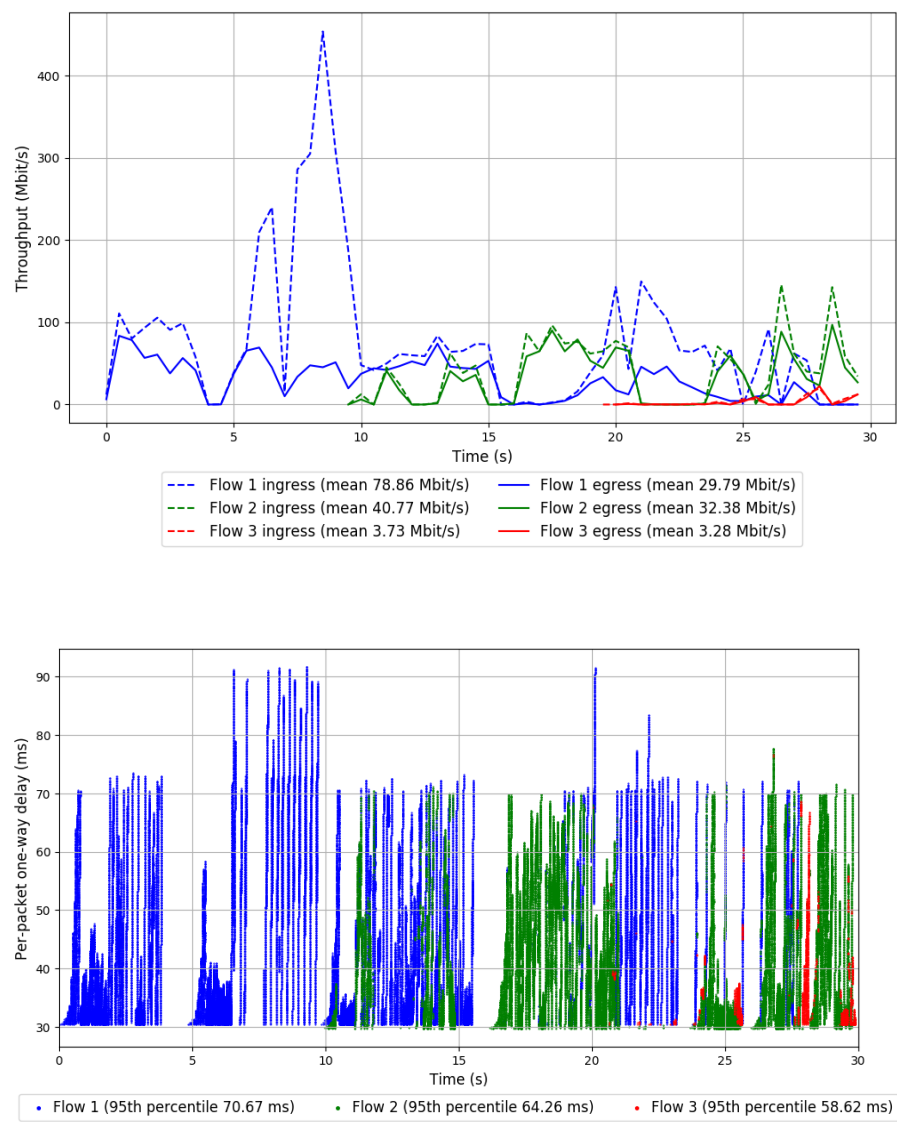


Run 8: Statistics of Verus

Start at: 2018-01-10 06:14:54
End at: 2018-01-10 06:15:24
Local clock offset: 0.107 ms
Remote clock offset: -0.121 ms

Below is generated by plot.py at 2018-01-10 08:20:34
Datalink statistics
-- Total of 3 flows:
Average throughput: 52.25 Mbit/s
95th percentile per-packet one-way delay: 68.338 ms
Loss rate: 51.14%
-- Flow 1:
Average throughput: 29.79 Mbit/s
95th percentile per-packet one-way delay: 70.669 ms
Loss rate: 62.31%
-- Flow 2:
Average throughput: 32.38 Mbit/s
95th percentile per-packet one-way delay: 64.258 ms
Loss rate: 20.59%
-- Flow 3:
Average throughput: 3.28 Mbit/s
95th percentile per-packet one-way delay: 58.622 ms
Loss rate: 12.39%

Run 8: Report of Verus — Data Link

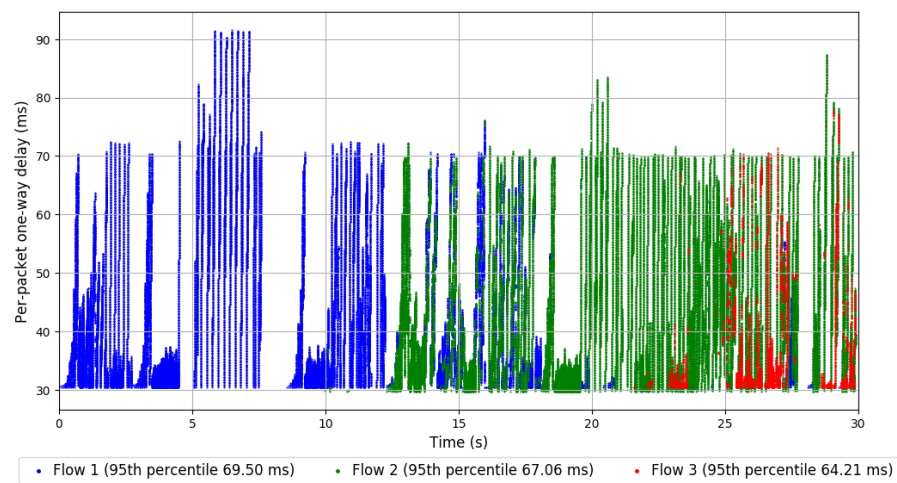
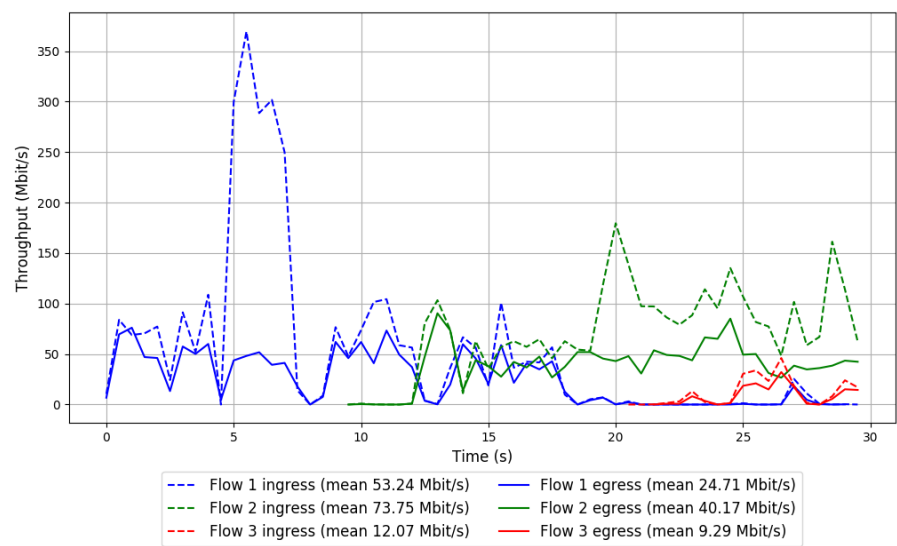


Run 9: Statistics of Verus

Start at: 2018-01-10 06:40:18
End at: 2018-01-10 06:40:48
Local clock offset: 0.291 ms
Remote clock offset: -0.545 ms

Below is generated by plot.py at 2018-01-10 08:20:46
Datalink statistics
-- Total of 3 flows:
Average throughput: 53.68 Mbit/s
95th percentile per-packet one-way delay: 67.947 ms
Loss rate: 49.32%
-- Flow 1:
Average throughput: 24.71 Mbit/s
95th percentile per-packet one-way delay: 69.495 ms
Loss rate: 54.15%
-- Flow 2:
Average throughput: 40.17 Mbit/s
95th percentile per-packet one-way delay: 67.063 ms
Loss rate: 45.50%
-- Flow 3:
Average throughput: 9.29 Mbit/s
95th percentile per-packet one-way delay: 64.208 ms
Loss rate: 31.27%

Run 9: Report of Verus — Data Link

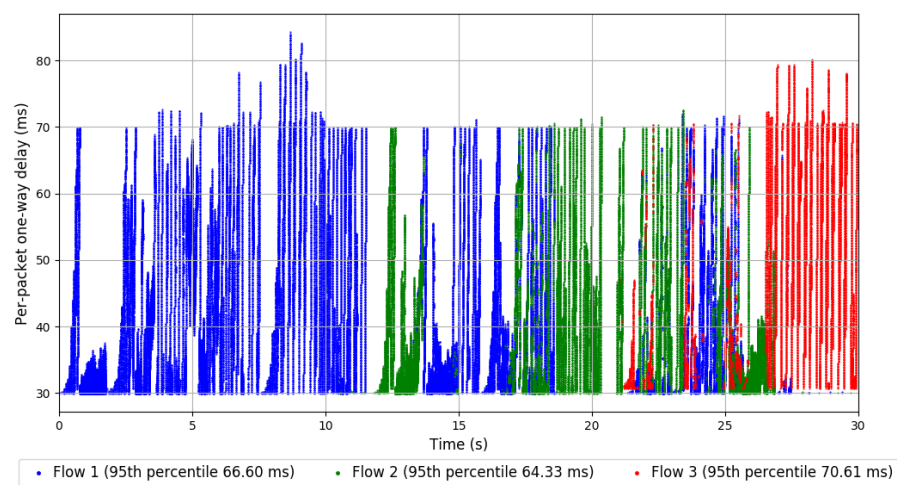
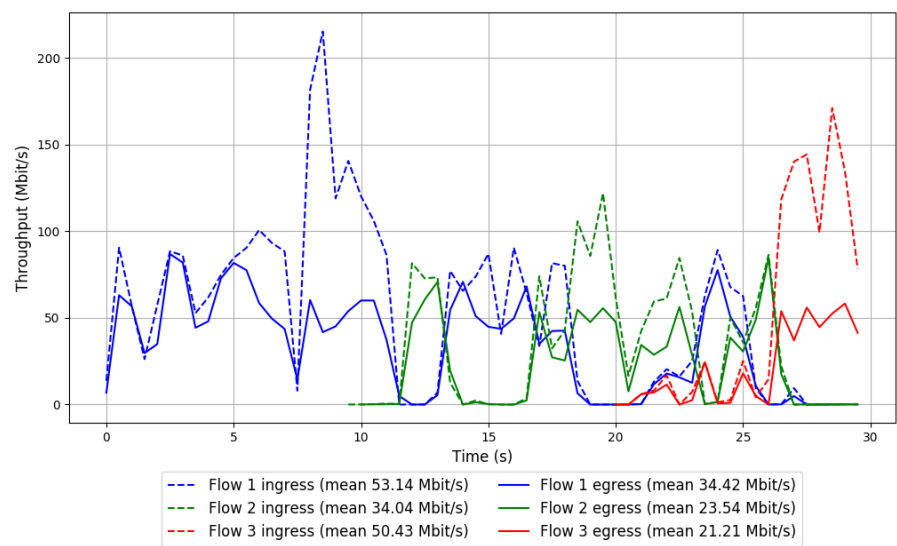


Run 10: Statistics of Verus

Start at: 2018-01-10 07:05:46
End at: 2018-01-10 07:06:16
Local clock offset: 0.177 ms
Remote clock offset: -2.121 ms

Below is generated by plot.py at 2018-01-10 08:20:46
Datalink statistics
-- Total of 3 flows:
Average throughput: 56.39 Mbit/s
95th percentile per-packet one-way delay: 67.135 ms
Loss rate: 38.41%
-- Flow 1:
Average throughput: 34.42 Mbit/s
95th percentile per-packet one-way delay: 66.598 ms
Loss rate: 35.35%
-- Flow 2:
Average throughput: 23.54 Mbit/s
95th percentile per-packet one-way delay: 64.335 ms
Loss rate: 31.08%
-- Flow 3:
Average throughput: 21.21 Mbit/s
95th percentile per-packet one-way delay: 70.608 ms
Loss rate: 57.90%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2018-01-10 03:33:52

End at: 2018-01-10 03:34:22

Local clock offset: 0.061 ms

Remote clock offset: 2.014 ms

Below is generated by plot.py at 2018-01-10 08:20:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 22.27 Mbit/s

95th percentile per-packet one-way delay: 31.100 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 10.62 Mbit/s

95th percentile per-packet one-way delay: 30.548 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 13.45 Mbit/s

95th percentile per-packet one-way delay: 30.599 ms

Loss rate: 0.02%

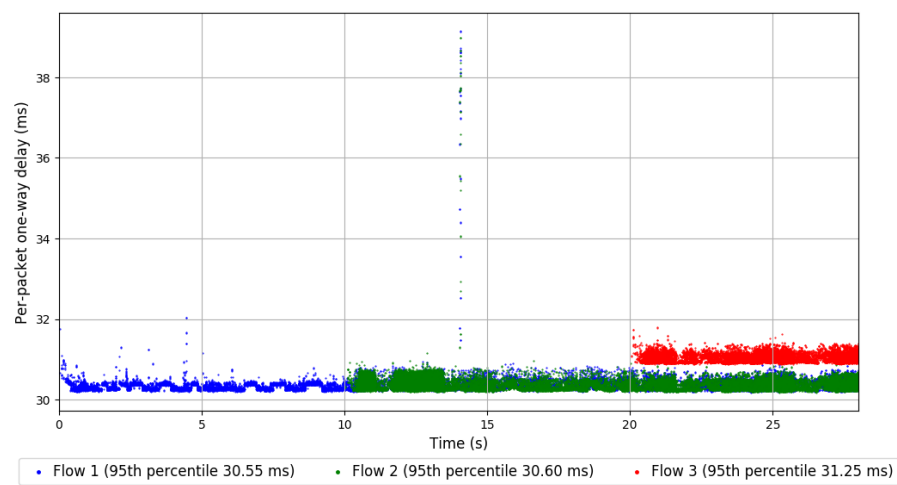
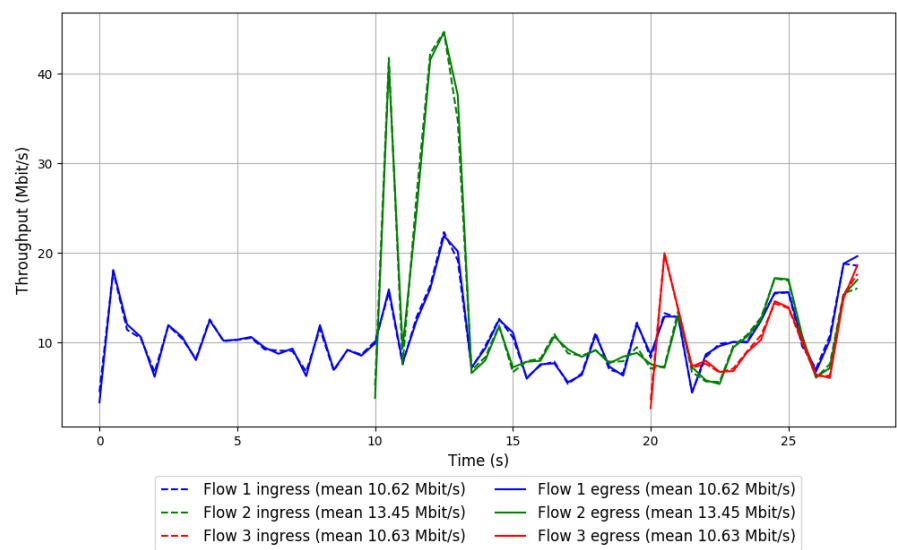
-- Flow 3:

Average throughput: 10.63 Mbit/s

95th percentile per-packet one-way delay: 31.246 ms

Loss rate: 0.03%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-01-10 03:56:36

End at: 2018-01-10 03:57:06

Local clock offset: 0.071 ms

Remote clock offset: 2.09 ms

Below is generated by plot.py at 2018-01-10 08:22:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 75.69 Mbit/s

95th percentile per-packet one-way delay: 40.513 ms

Loss rate: 0.93%

-- Flow 1:

Average throughput: 54.45 Mbit/s

95th percentile per-packet one-way delay: 39.260 ms

Loss rate: 0.72%

-- Flow 2:

Average throughput: 22.83 Mbit/s

95th percentile per-packet one-way delay: 42.733 ms

Loss rate: 1.28%

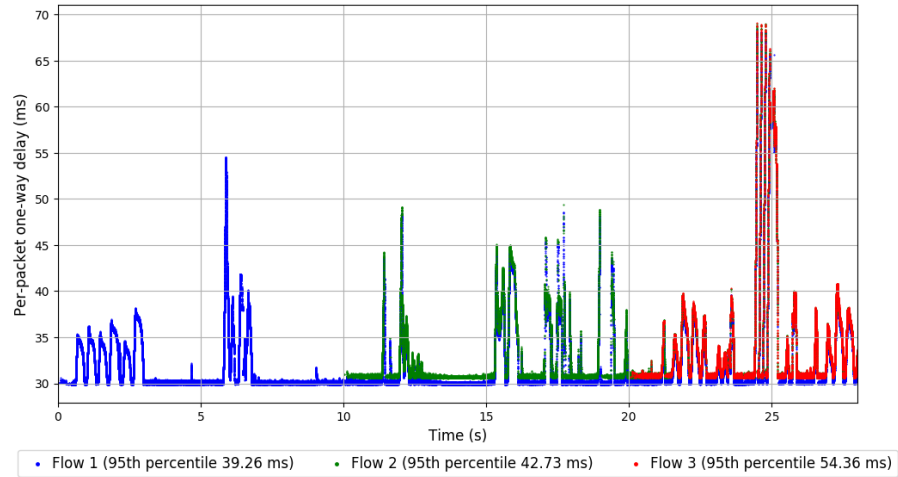
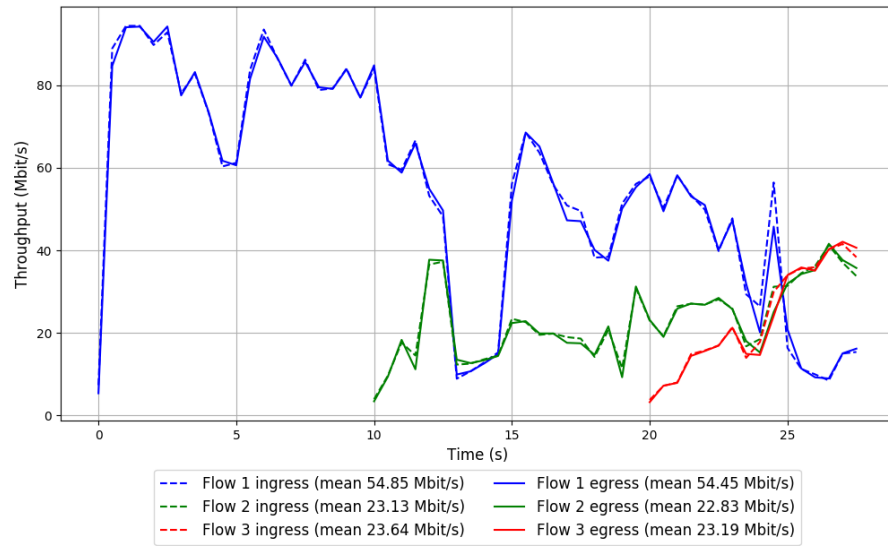
-- Flow 3:

Average throughput: 23.19 Mbit/s

95th percentile per-packet one-way delay: 54.358 ms

Loss rate: 1.89%

Run 2: Report of Copa — Data Link

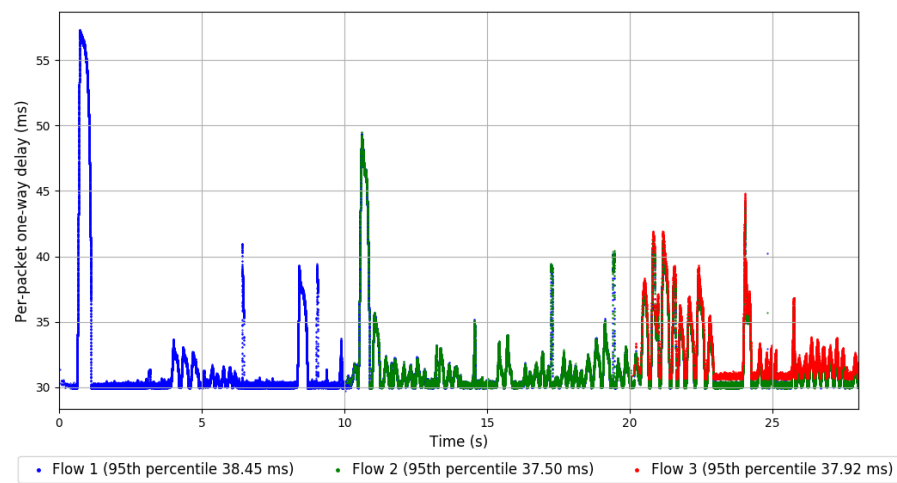
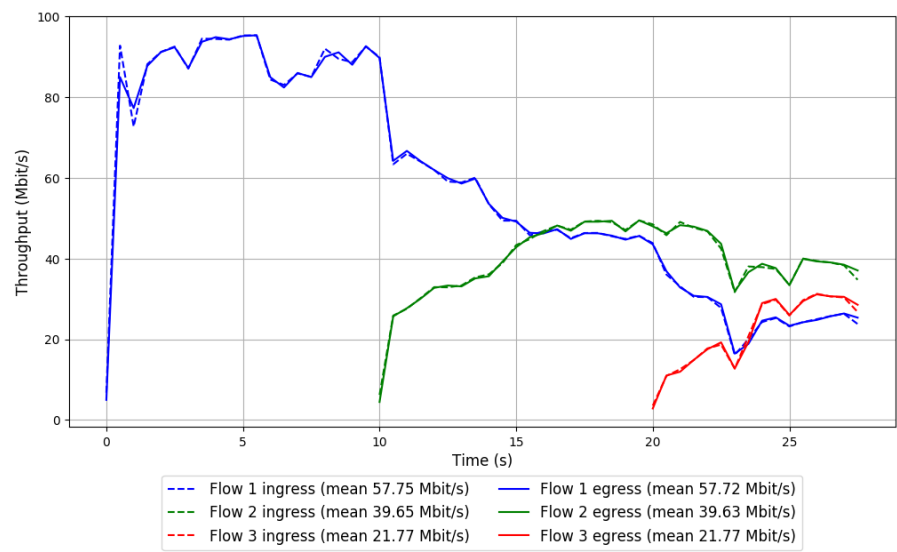


Run 3: Statistics of Copa

Start at: 2018-01-10 04:18:50
End at: 2018-01-10 04:19:20
Local clock offset: 0.428 ms
Remote clock offset: 1.897 ms

Below is generated by plot.py at 2018-01-10 08:23:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 89.32 Mbit/s
95th percentile per-packet one-way delay: 38.115 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 57.72 Mbit/s
95th percentile per-packet one-way delay: 38.448 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 39.63 Mbit/s
95th percentile per-packet one-way delay: 37.499 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 21.77 Mbit/s
95th percentile per-packet one-way delay: 37.920 ms
Loss rate: 0.02%

Run 3: Report of Copa — Data Link

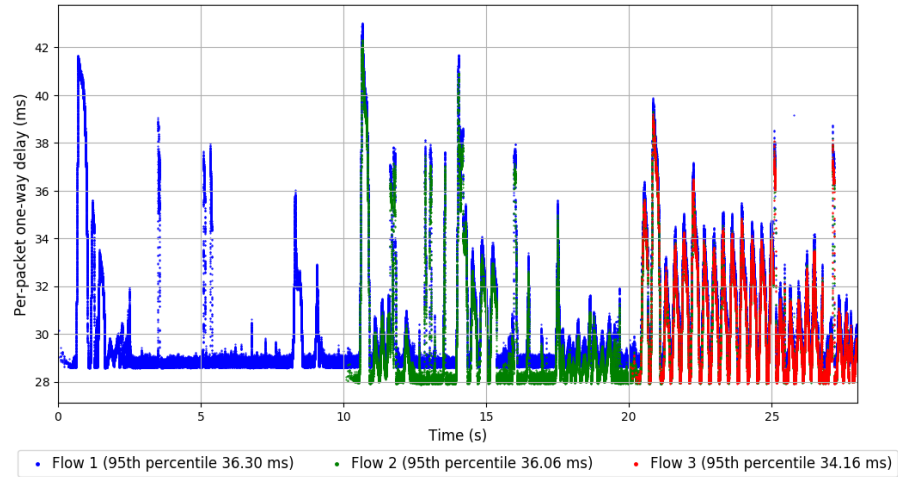
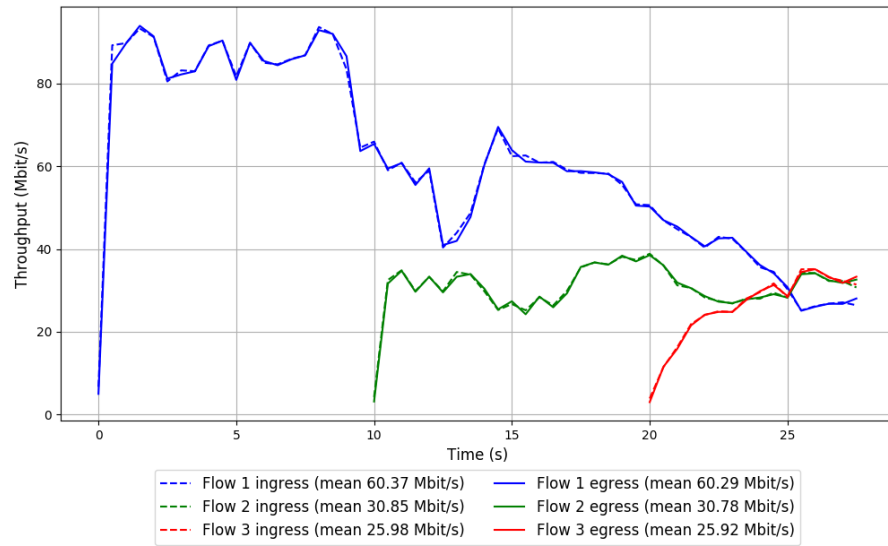


Run 4: Statistics of Copa

Start at: 2018-01-10 04:40:04
End at: 2018-01-10 04:40:34
Local clock offset: 0.441 ms
Remote clock offset: -1.218 ms

Below is generated by plot.py at 2018-01-10 08:24:23
Datalink statistics
-- Total of 3 flows:
Average throughput: 87.36 Mbit/s
95th percentile per-packet one-way delay: 36.057 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 60.29 Mbit/s
95th percentile per-packet one-way delay: 36.297 ms
Loss rate: 0.14%
-- Flow 2:
Average throughput: 30.78 Mbit/s
95th percentile per-packet one-way delay: 36.063 ms
Loss rate: 0.22%
-- Flow 3:
Average throughput: 25.92 Mbit/s
95th percentile per-packet one-way delay: 34.165 ms
Loss rate: 0.22%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-01-10 05:02:12

End at: 2018-01-10 05:02:42

Local clock offset: 0.561 ms

Remote clock offset: 1.123 ms

Below is generated by plot.py at 2018-01-10 08:24:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 19.38 Mbit/s

95th percentile per-packet one-way delay: 31.343 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 9.44 Mbit/s

95th percentile per-packet one-way delay: 30.737 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 9.01 Mbit/s

95th percentile per-packet one-way delay: 30.768 ms

Loss rate: 0.05%

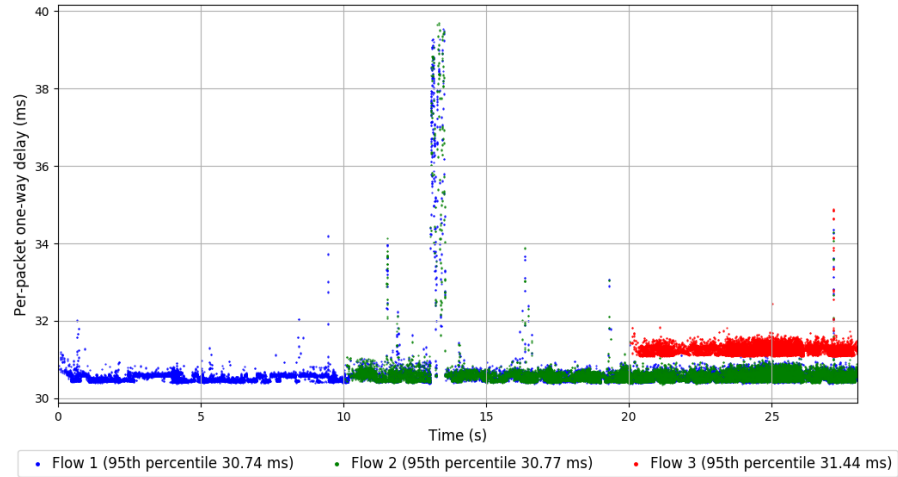
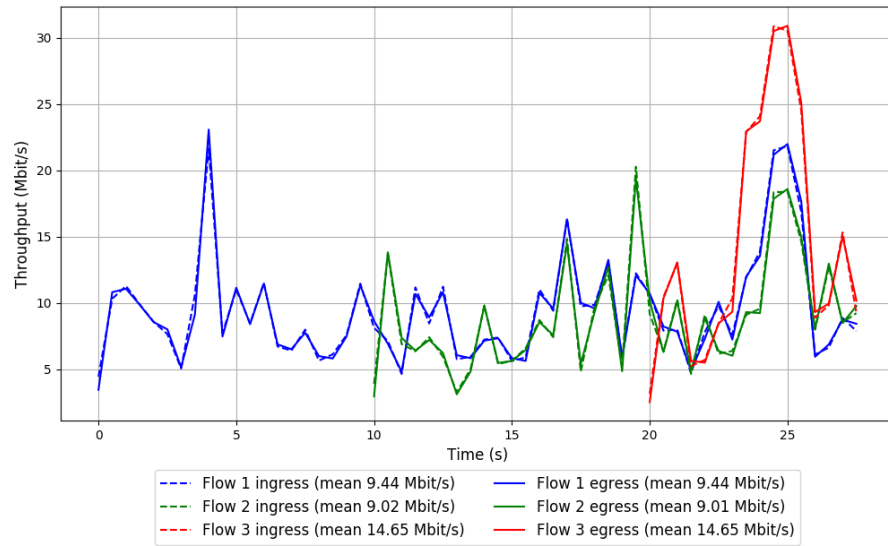
-- Flow 3:

Average throughput: 14.65 Mbit/s

95th percentile per-packet one-way delay: 31.442 ms

Loss rate: 0.01%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-01-10 05:28:36

End at: 2018-01-10 05:29:06

Local clock offset: 0.369 ms

Remote clock offset: 0.883 ms

Below is generated by plot.py at 2018-01-10 08:24:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 18.26 Mbit/s

95th percentile per-packet one-way delay: 30.702 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 9.17 Mbit/s

95th percentile per-packet one-way delay: 30.746 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 9.21 Mbit/s

95th percentile per-packet one-way delay: 30.085 ms

Loss rate: 0.00%

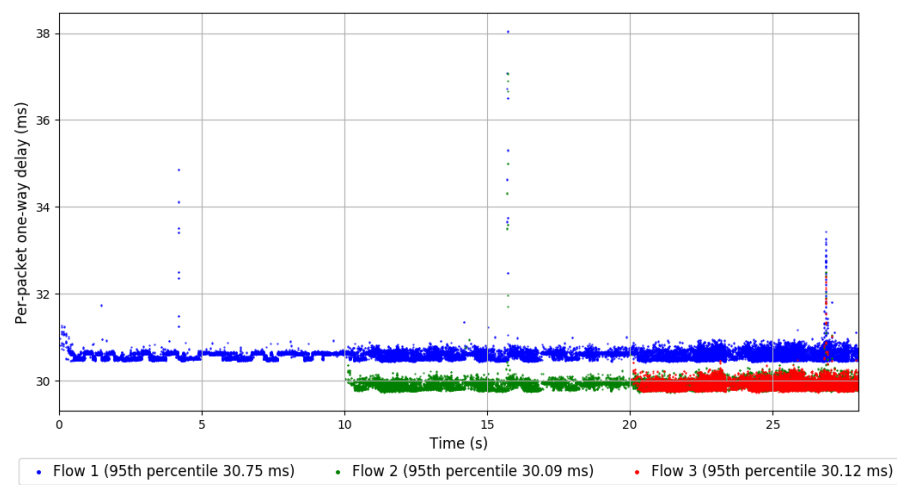
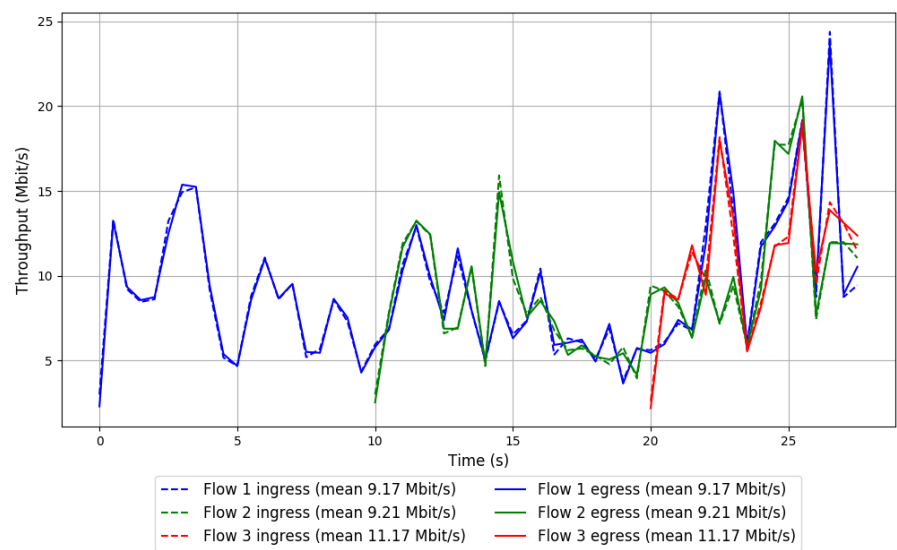
-- Flow 3:

Average throughput: 11.17 Mbit/s

95th percentile per-packet one-way delay: 30.117 ms

Loss rate: 0.00%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-01-10 05:55:48

End at: 2018-01-10 05:56:18

Local clock offset: 0.047 ms

Remote clock offset: 0.544 ms

Below is generated by plot.py at 2018-01-10 08:24:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 28.97 Mbit/s

95th percentile per-packet one-way delay: 35.135 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 16.57 Mbit/s

95th percentile per-packet one-way delay: 36.977 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 13.81 Mbit/s

95th percentile per-packet one-way delay: 31.179 ms

Loss rate: 0.00%

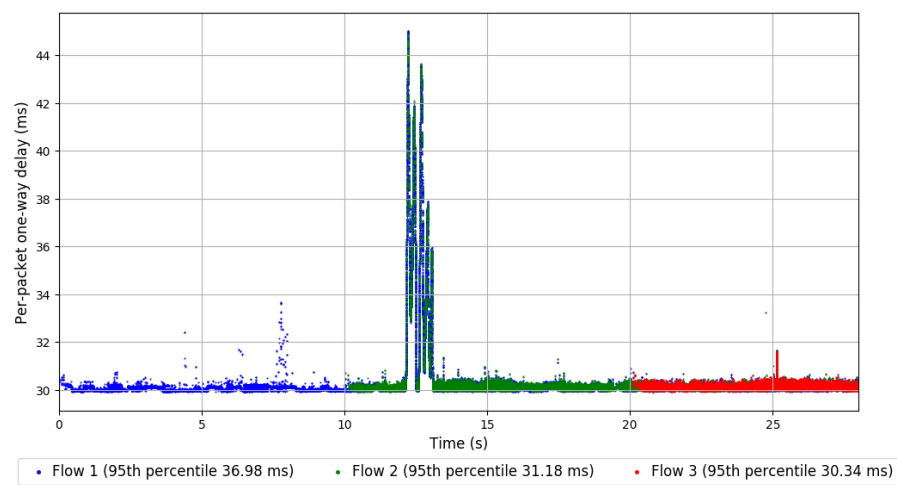
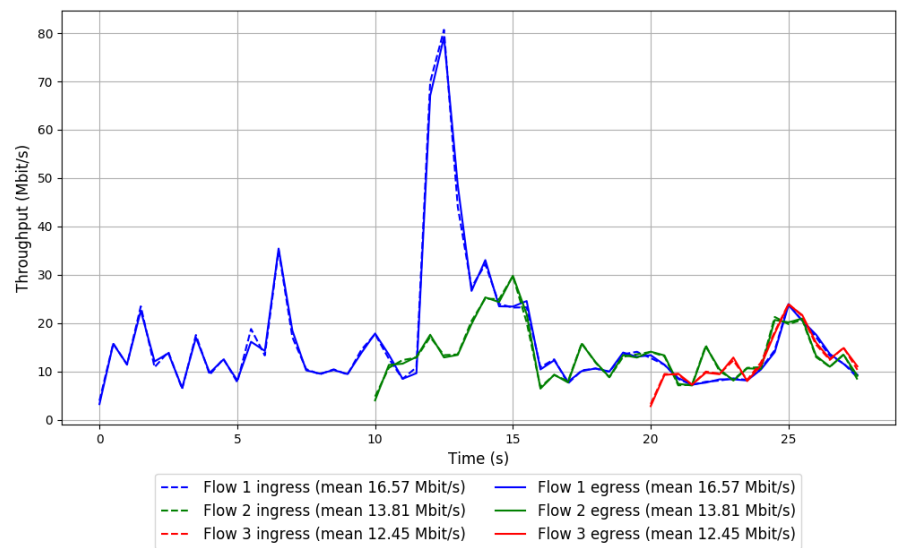
-- Flow 3:

Average throughput: 12.45 Mbit/s

95th percentile per-packet one-way delay: 30.339 ms

Loss rate: 0.00%

Run 7: Report of Copa — Data Link

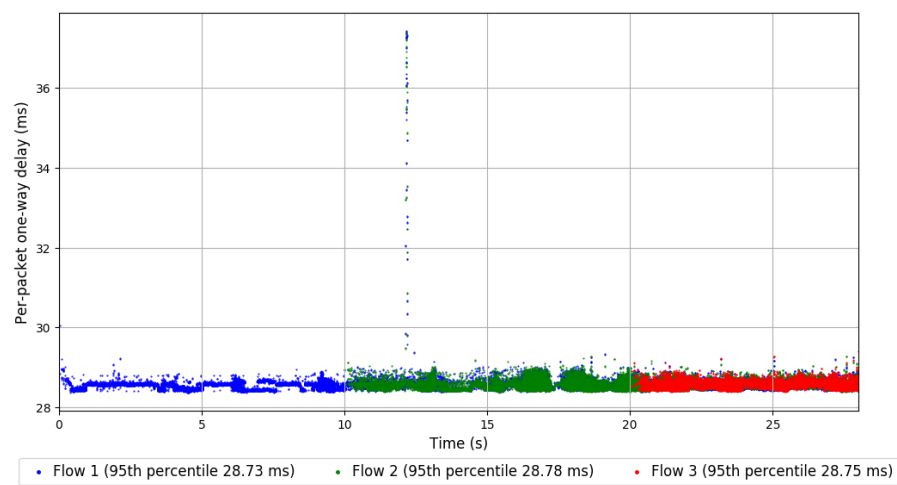
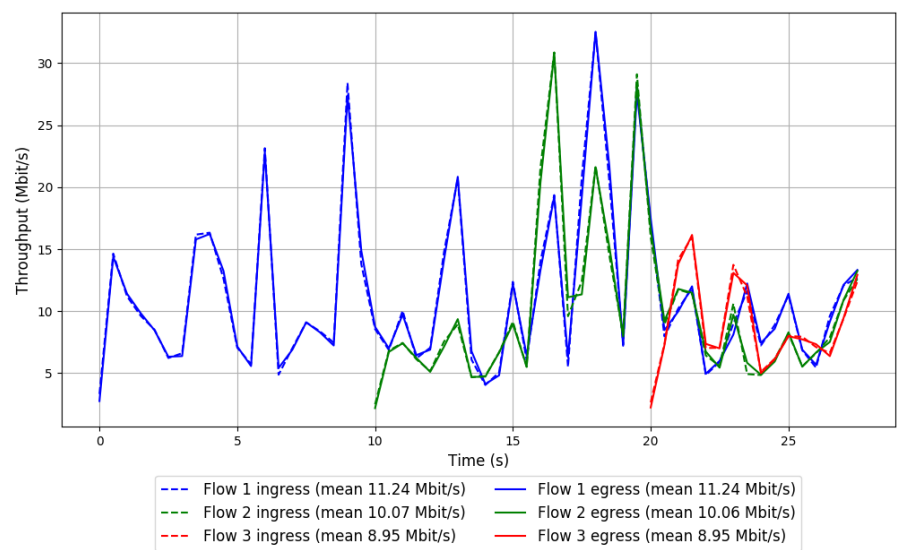


Run 8: Statistics of Copa

Start at: 2018-01-10 06:21:05
End at: 2018-01-10 06:21:35
Local clock offset: 0.178 ms
Remote clock offset: -2.311 ms

Below is generated by plot.py at 2018-01-10 08:24:23
Datalink statistics
-- Total of 3 flows:
Average throughput: 20.24 Mbit/s
95th percentile per-packet one-way delay: 28.751 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 11.24 Mbit/s
95th percentile per-packet one-way delay: 28.731 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 10.06 Mbit/s
95th percentile per-packet one-way delay: 28.782 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 8.95 Mbit/s
95th percentile per-packet one-way delay: 28.750 ms
Loss rate: 0.02%

Run 8: Report of Copa — Data Link

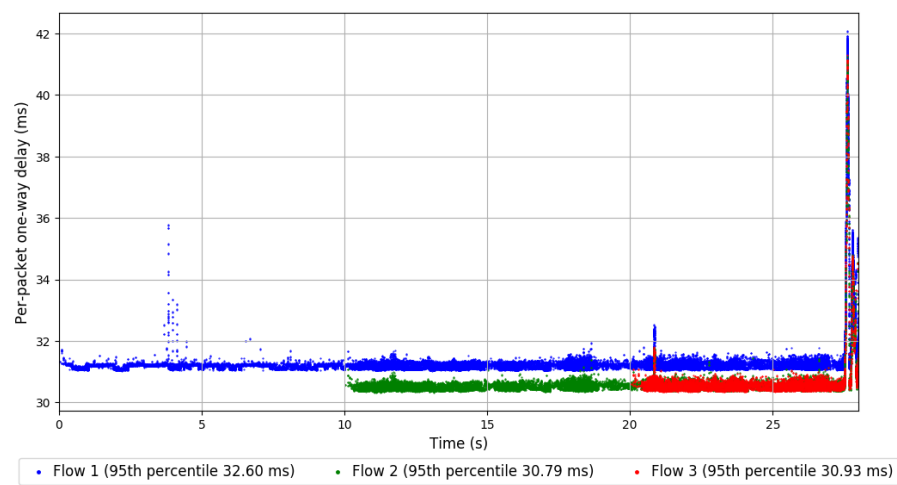
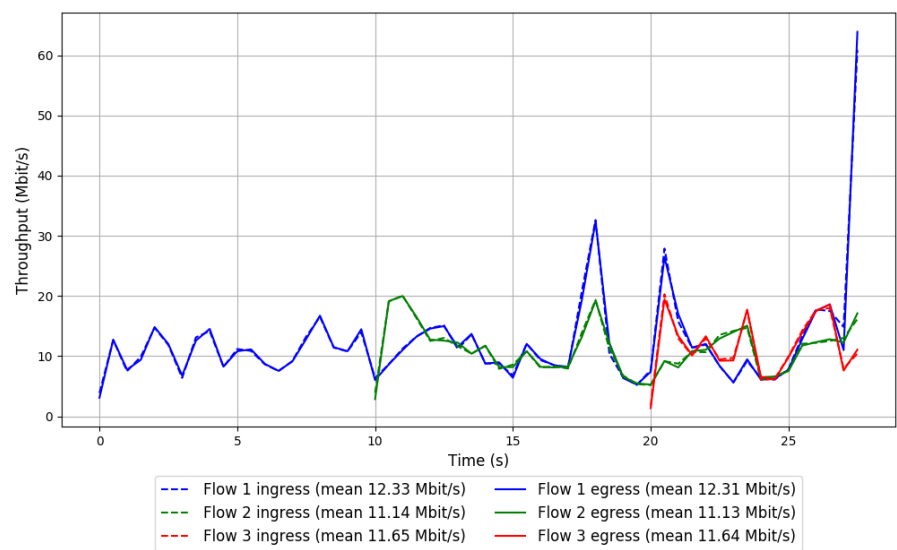


Run 9: Statistics of Copa

Start at: 2018-01-10 06:46:28
End at: 2018-01-10 06:46:58
Local clock offset: 0.286 ms
Remote clock offset: -0.221 ms

Below is generated by plot.py at 2018-01-10 08:24:23
Datalink statistics
-- Total of 3 flows:
Average throughput: 22.76 Mbit/s
95th percentile per-packet one-way delay: 31.722 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 12.31 Mbit/s
95th percentile per-packet one-way delay: 32.603 ms
Loss rate: 0.14%
-- Flow 2:
Average throughput: 11.13 Mbit/s
95th percentile per-packet one-way delay: 30.792 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 11.64 Mbit/s
95th percentile per-packet one-way delay: 30.929 ms
Loss rate: 0.11%

Run 9: Report of Copa — Data Link

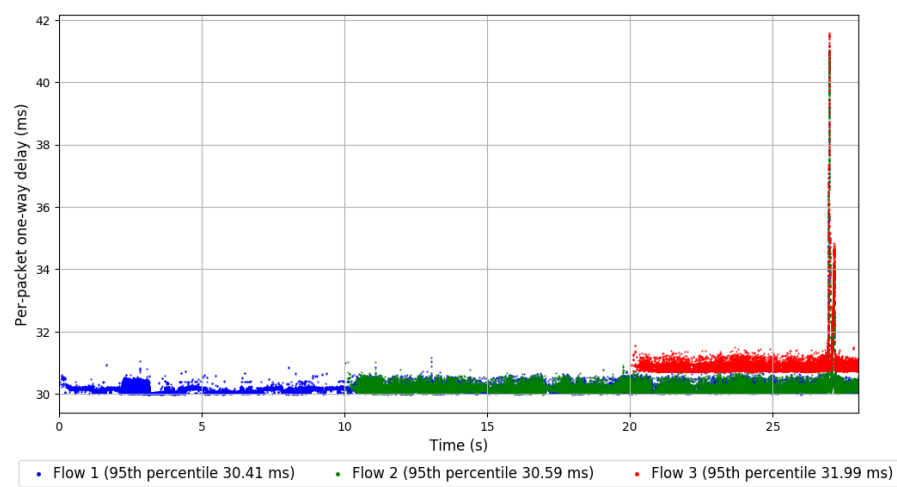
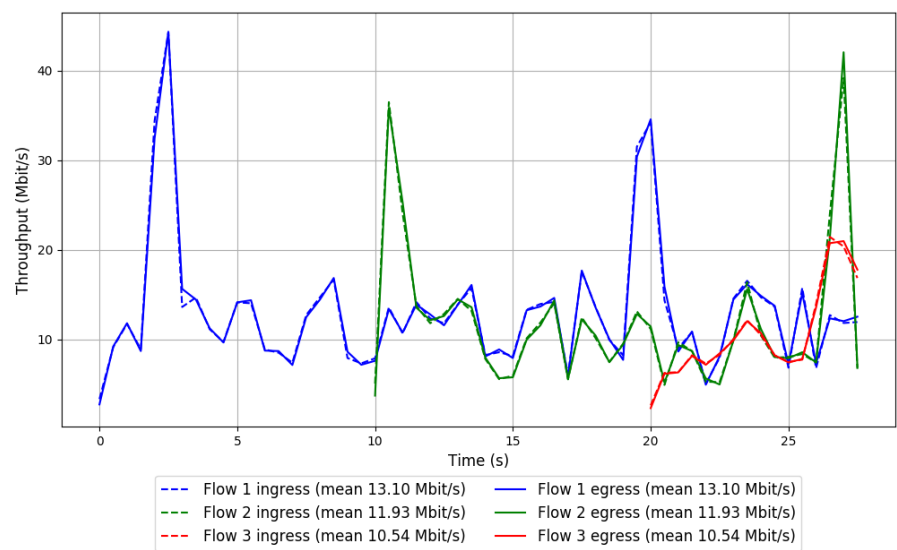


Run 10: Statistics of Copa

Start at: 2018-01-10 07:11:47
End at: 2018-01-10 07:12:17
Local clock offset: 0.039 ms
Remote clock offset: -2.608 ms

Below is generated by plot.py at 2018-01-10 08:24:23
Datalink statistics
-- Total of 3 flows:
Average throughput: 23.75 Mbit/s
95th percentile per-packet one-way delay: 30.983 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 13.10 Mbit/s
95th percentile per-packet one-way delay: 30.407 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 11.93 Mbit/s
95th percentile per-packet one-way delay: 30.590 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 10.54 Mbit/s
95th percentile per-packet one-way delay: 31.993 ms
Loss rate: 0.02%

Run 10: Report of Copa — Data Link



Run 1: Statistics of FillP

Start at: 2018-01-10 03:24:20

End at: 2018-01-10 03:24:50

Local clock offset: 0.074 ms

Remote clock offset: 1.327 ms

Below is generated by plot.py at 2018-01-10 08:24:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.27 Mbit/s

95th percentile per-packet one-way delay: 68.628 ms

Loss rate: 32.22%

-- Flow 1:

Average throughput: 58.56 Mbit/s

95th percentile per-packet one-way delay: 68.462 ms

Loss rate: 28.99%

-- Flow 2:

Average throughput: 39.07 Mbit/s

95th percentile per-packet one-way delay: 68.809 ms

Loss rate: 34.23%

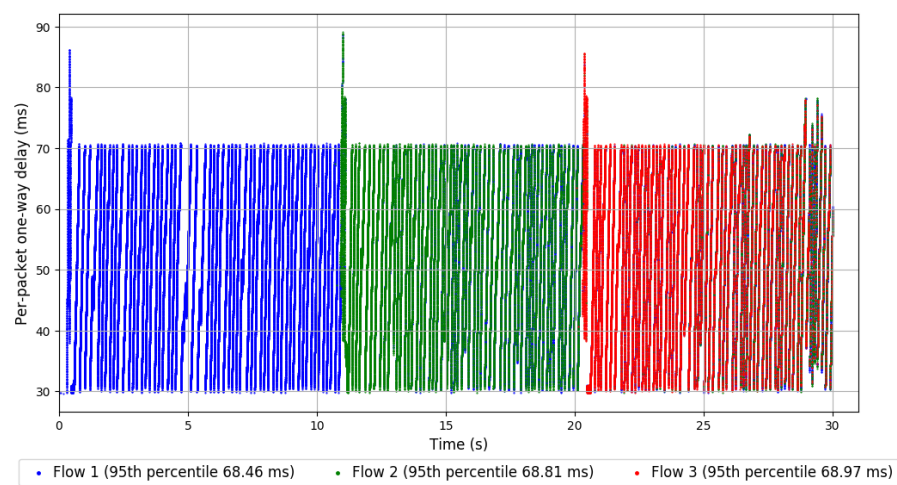
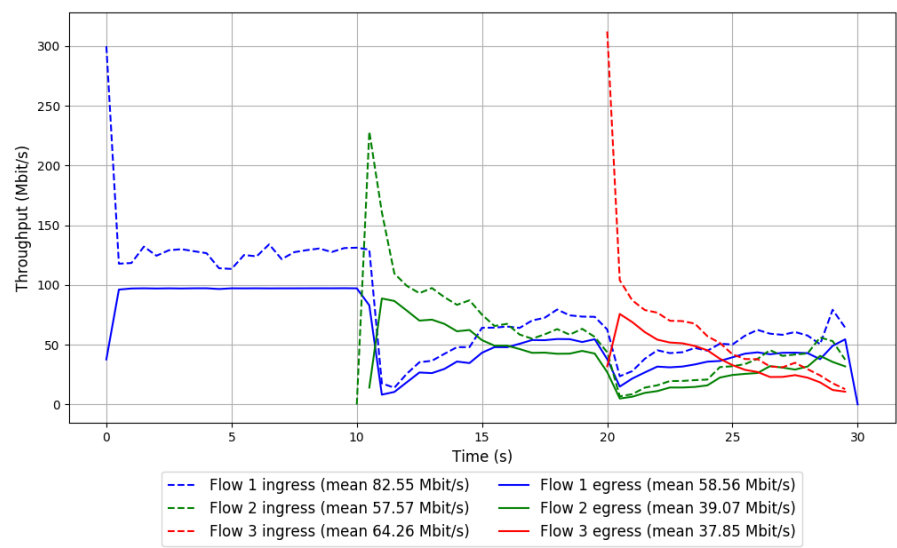
-- Flow 3:

Average throughput: 37.85 Mbit/s

95th percentile per-packet one-way delay: 68.972 ms

Loss rate: 41.12%

Run 1: Report of FillP — Data Link

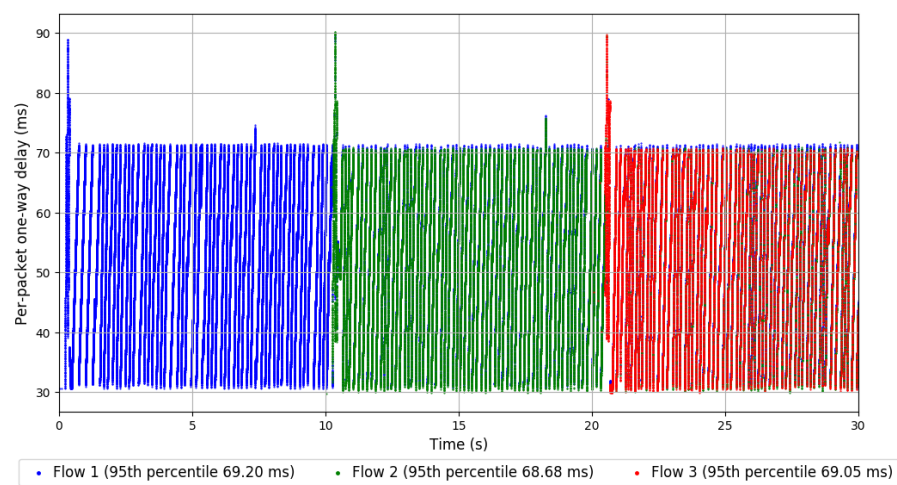
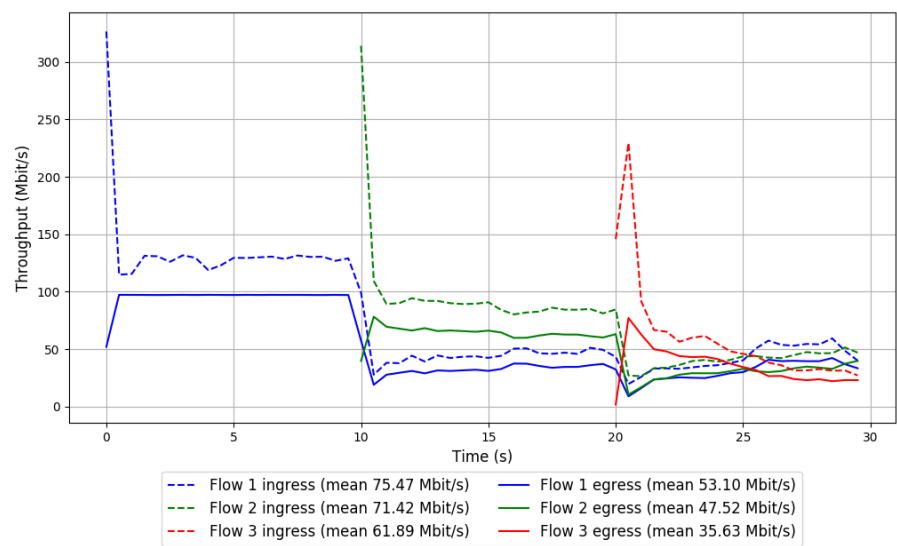


Run 2: Statistics of FillP

Start at: 2018-01-10 03:47:50
End at: 2018-01-10 03:48:20
Local clock offset: -0.017 ms
Remote clock offset: 1.86 ms

Below is generated by plot.py at 2018-01-10 08:25:15
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.54 Mbit/s
95th percentile per-packet one-way delay: 69.007 ms
Loss rate: 32.71%
-- Flow 1:
Average throughput: 53.10 Mbit/s
95th percentile per-packet one-way delay: 69.196 ms
Loss rate: 29.62%
-- Flow 2:
Average throughput: 47.52 Mbit/s
95th percentile per-packet one-way delay: 68.684 ms
Loss rate: 33.42%
-- Flow 3:
Average throughput: 35.63 Mbit/s
95th percentile per-packet one-way delay: 69.045 ms
Loss rate: 42.44%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-01-10 04:10:08

End at: 2018-01-10 04:10:38

Local clock offset: 0.354 ms

Remote clock offset: 2.055 ms

Below is generated by plot.py at 2018-01-10 08:25:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.30 Mbit/s

95th percentile per-packet one-way delay: 69.338 ms

Loss rate: 32.11%

-- Flow 1:

Average throughput: 54.14 Mbit/s

95th percentile per-packet one-way delay: 69.361 ms

Loss rate: 29.23%

-- Flow 2:

Average throughput: 36.13 Mbit/s

95th percentile per-packet one-way delay: 69.668 ms

Loss rate: 34.78%

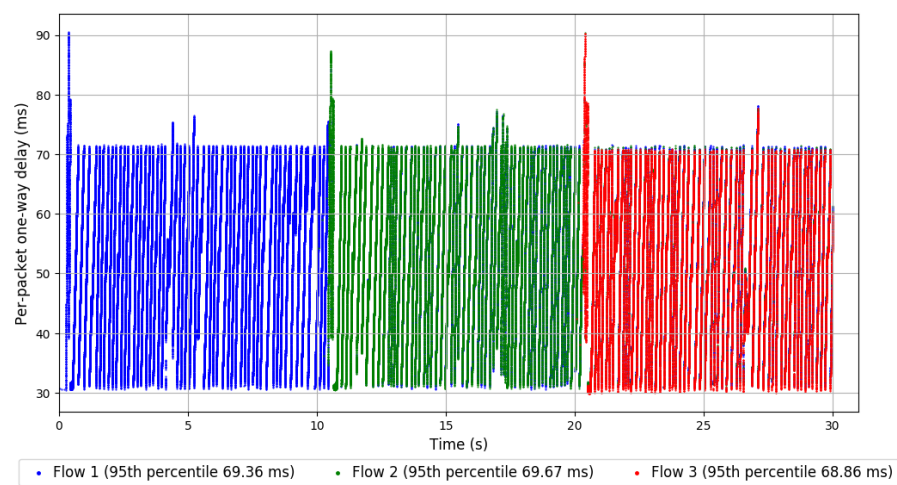
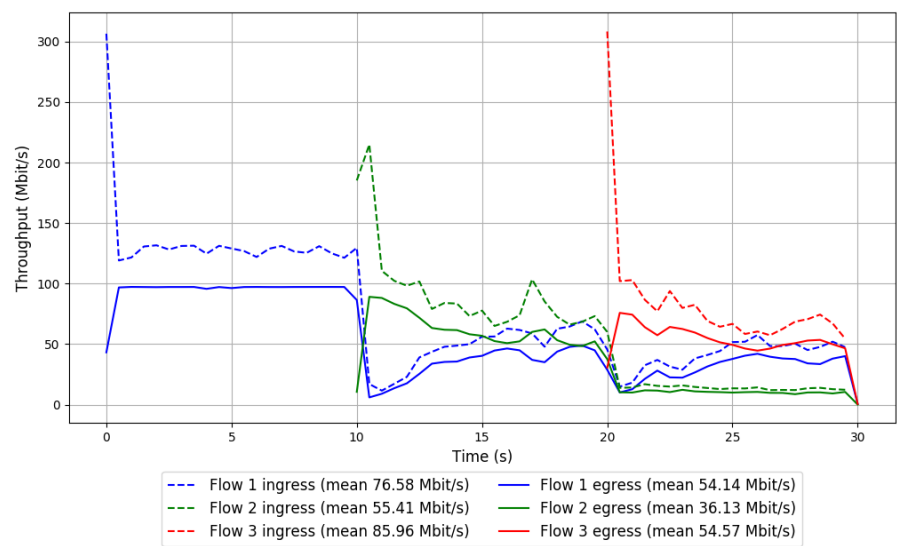
-- Flow 3:

Average throughput: 54.57 Mbit/s

95th percentile per-packet one-way delay: 68.859 ms

Loss rate: 36.40%

Run 3: Report of FillP — Data Link

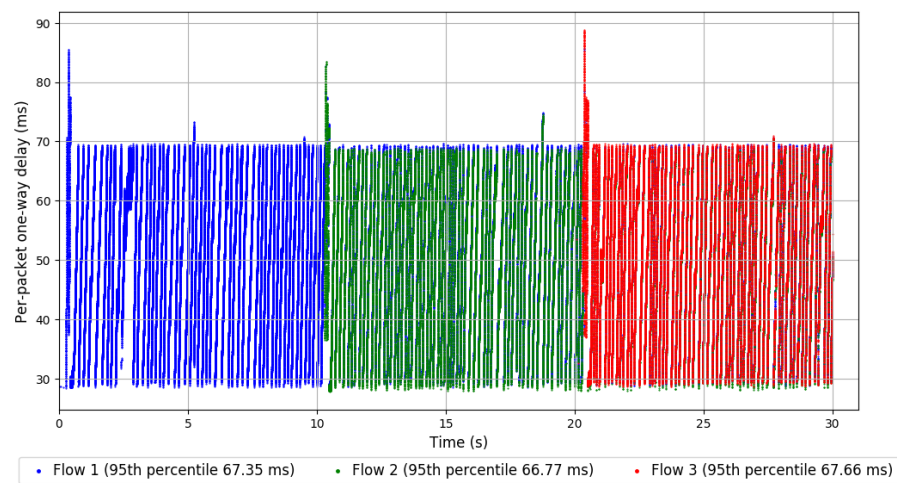
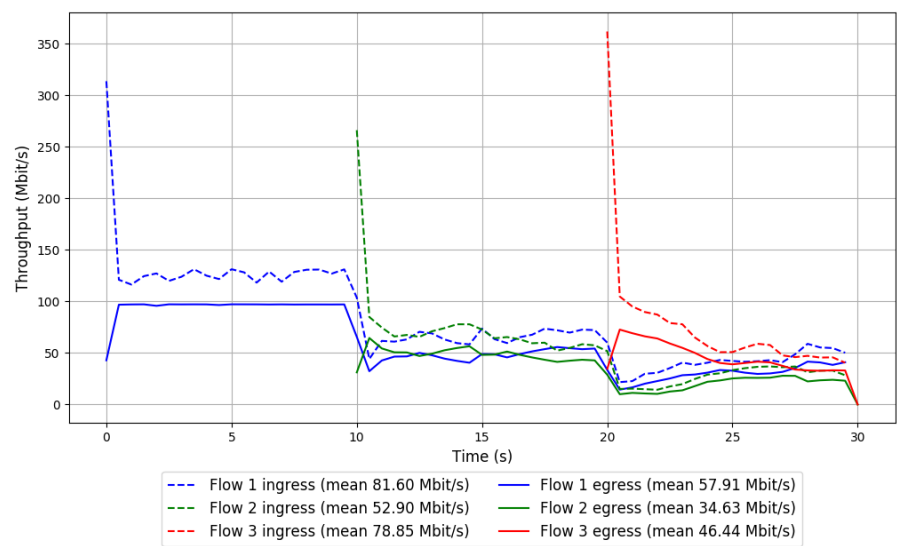


Run 4: Statistics of FillP

Start at: 2018-01-10 04:31:48
End at: 2018-01-10 04:32:18
Local clock offset: 0.407 ms
Remote clock offset: -0.783 ms

Below is generated by plot.py at 2018-01-10 08:25:28
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.33 Mbit/s
95th percentile per-packet one-way delay: 67.271 ms
Loss rate: 32.55%
-- Flow 1:
Average throughput: 57.91 Mbit/s
95th percentile per-packet one-way delay: 67.354 ms
Loss rate: 28.98%
-- Flow 2:
Average throughput: 34.63 Mbit/s
95th percentile per-packet one-way delay: 66.769 ms
Loss rate: 34.49%
-- Flow 3:
Average throughput: 46.44 Mbit/s
95th percentile per-packet one-way delay: 67.662 ms
Loss rate: 41.09%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-01-10 04:53:19

End at: 2018-01-10 04:53:49

Local clock offset: 0.608 ms

Remote clock offset: 0.543 ms

Below is generated by plot.py at 2018-01-10 08:25:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.37 Mbit/s

95th percentile per-packet one-way delay: 69.232 ms

Loss rate: 31.61%

-- Flow 1:

Average throughput: 64.07 Mbit/s

95th percentile per-packet one-way delay: 69.298 ms

Loss rate: 28.39%

-- Flow 2:

Average throughput: 26.03 Mbit/s

95th percentile per-packet one-way delay: 68.748 ms

Loss rate: 37.35%

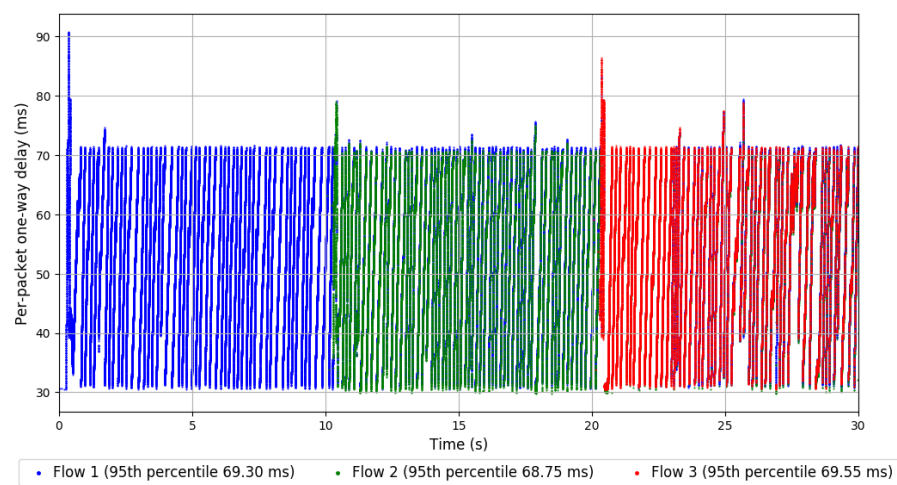
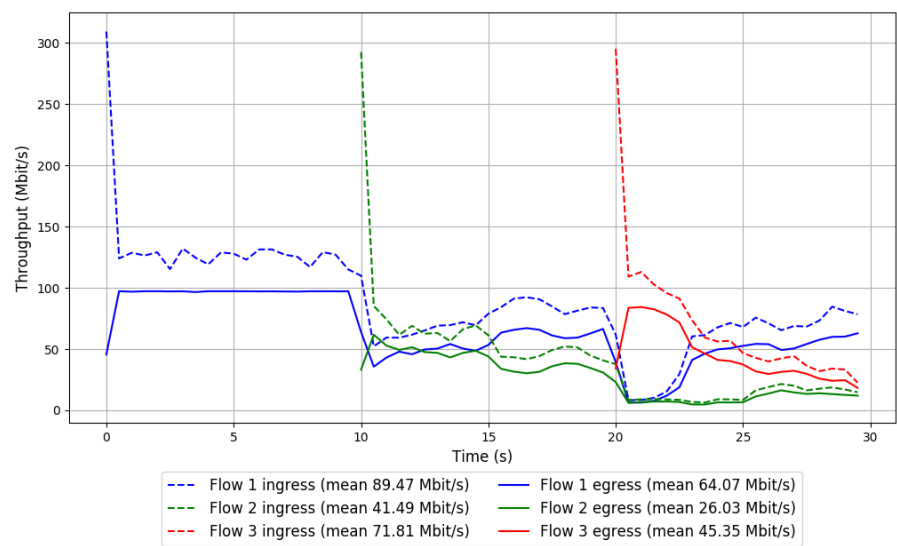
-- Flow 3:

Average throughput: 45.35 Mbit/s

95th percentile per-packet one-way delay: 69.547 ms

Loss rate: 37.04%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-01-10 05:18:14

End at: 2018-01-10 05:18:44

Local clock offset: 0.425 ms

Remote clock offset: 0.794 ms

Below is generated by plot.py at 2018-01-10 08:26:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.35 Mbit/s

95th percentile per-packet one-way delay: 68.999 ms

Loss rate: 32.67%

-- Flow 1:

Average throughput: 56.89 Mbit/s

95th percentile per-packet one-way delay: 69.174 ms

Loss rate: 29.46%

-- Flow 2:

Average throughput: 31.79 Mbit/s

95th percentile per-packet one-way delay: 68.770 ms

Loss rate: 36.68%

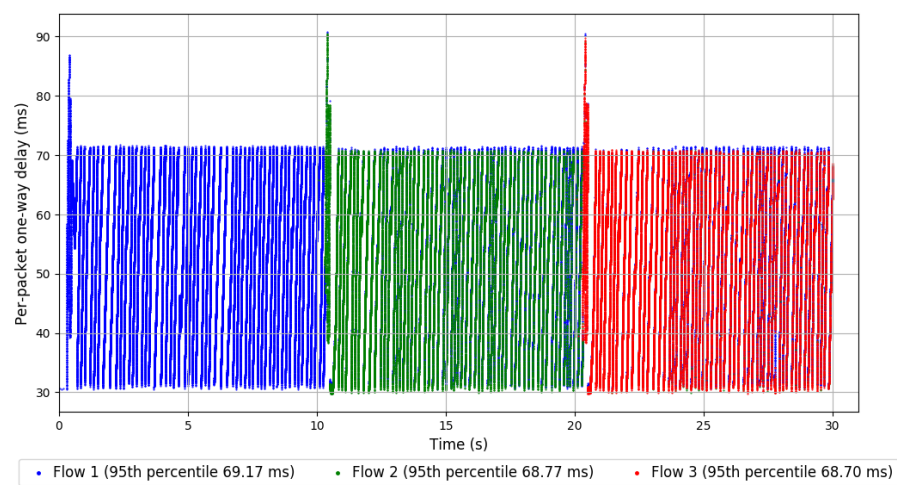
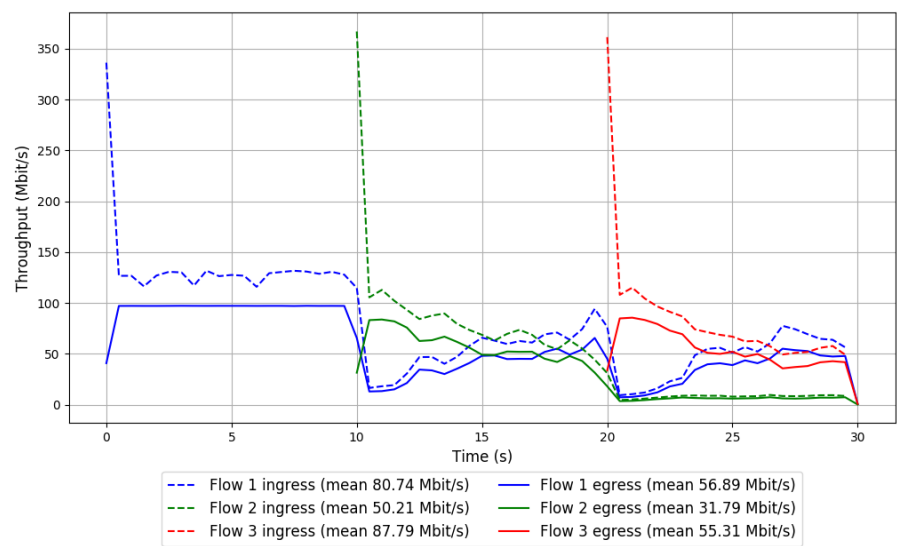
-- Flow 3:

Average throughput: 55.31 Mbit/s

95th percentile per-packet one-way delay: 68.697 ms

Loss rate: 36.96%

Run 6: Report of FillP — Data Link

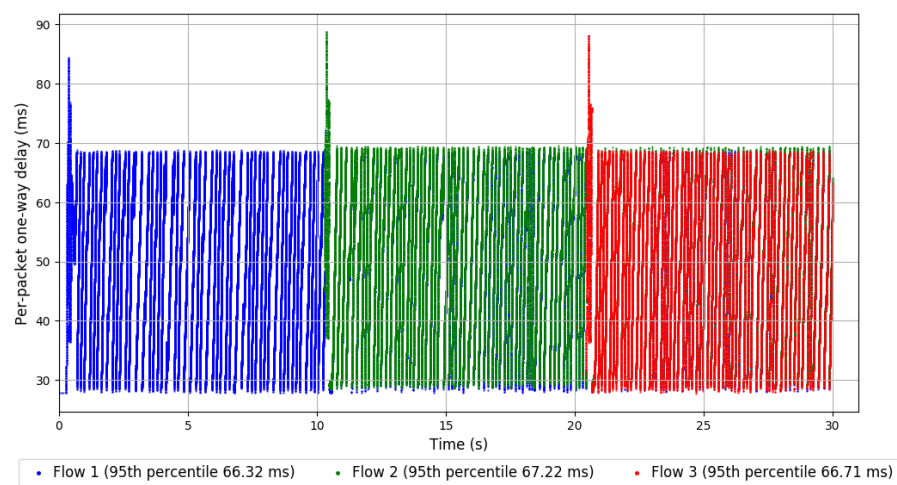
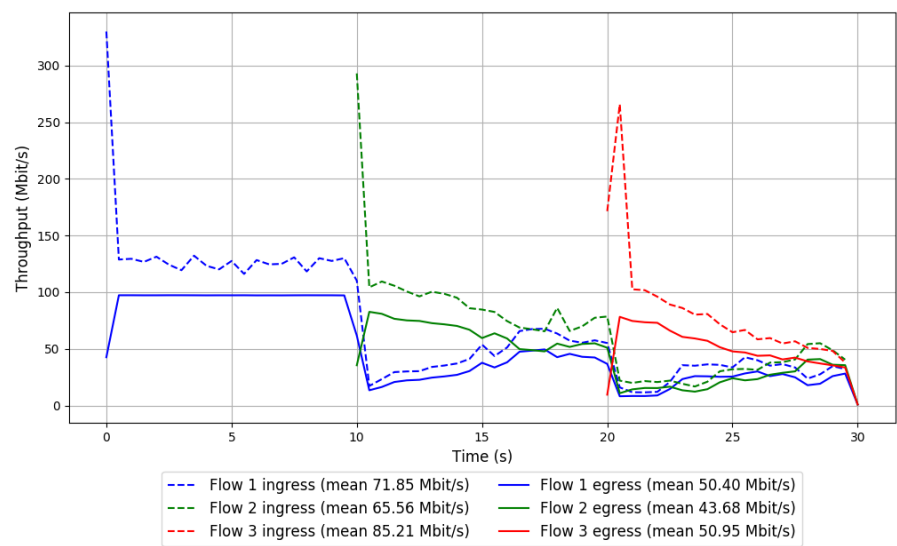


Run 7: Statistics of FillP

Start at: 2018-01-10 05:45:49
End at: 2018-01-10 05:46:19
Local clock offset: 0.186 ms
Remote clock offset: -1.299 ms

Below is generated by plot.py at 2018-01-10 08:27:24
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.40 Mbit/s
95th percentile per-packet one-way delay: 66.654 ms
Loss rate: 32.85%
-- Flow 1:
Average throughput: 50.40 Mbit/s
95th percentile per-packet one-way delay: 66.318 ms
Loss rate: 29.76%
-- Flow 2:
Average throughput: 43.68 Mbit/s
95th percentile per-packet one-way delay: 67.217 ms
Loss rate: 33.27%
-- Flow 3:
Average throughput: 50.95 Mbit/s
95th percentile per-packet one-way delay: 66.709 ms
Loss rate: 40.06%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-01-10 06:11:09

End at: 2018-01-10 06:11:39

Local clock offset: 0.077 ms

Remote clock offset: 0.533 ms

Below is generated by plot.py at 2018-01-10 08:27:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.39 Mbit/s

95th percentile per-packet one-way delay: 69.805 ms

Loss rate: 32.12%

-- Flow 1:

Average throughput: 58.53 Mbit/s

95th percentile per-packet one-way delay: 69.689 ms

Loss rate: 29.50%

-- Flow 2:

Average throughput: 32.29 Mbit/s

95th percentile per-packet one-way delay: 69.817 ms

Loss rate: 35.84%

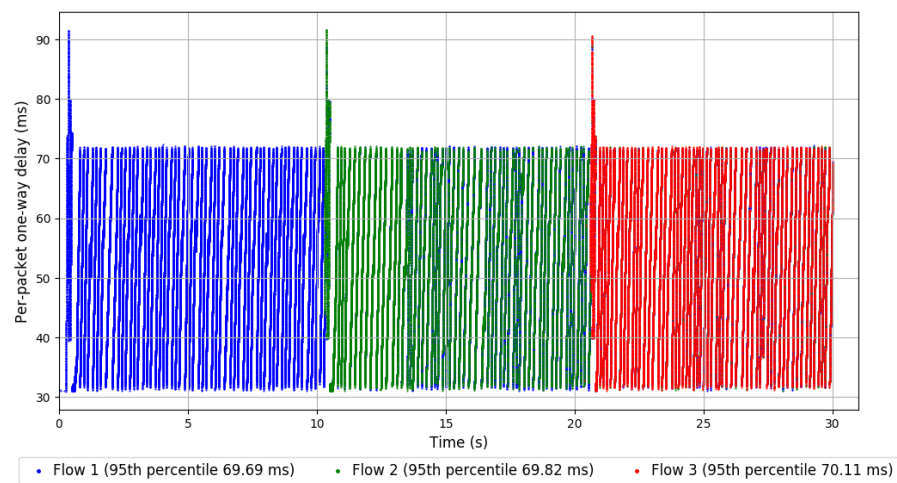
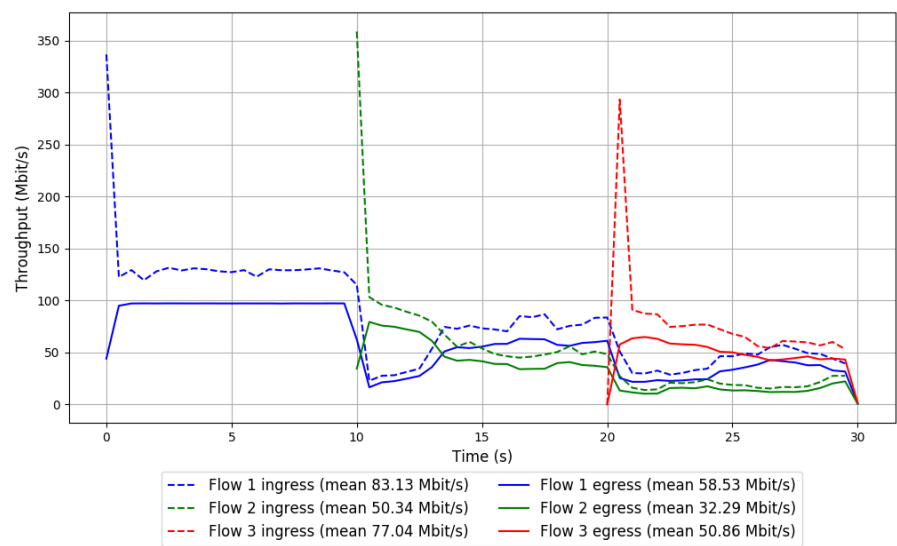
-- Flow 3:

Average throughput: 50.86 Mbit/s

95th percentile per-packet one-way delay: 70.115 ms

Loss rate: 35.76%

Run 8: Report of FillP — Data Link

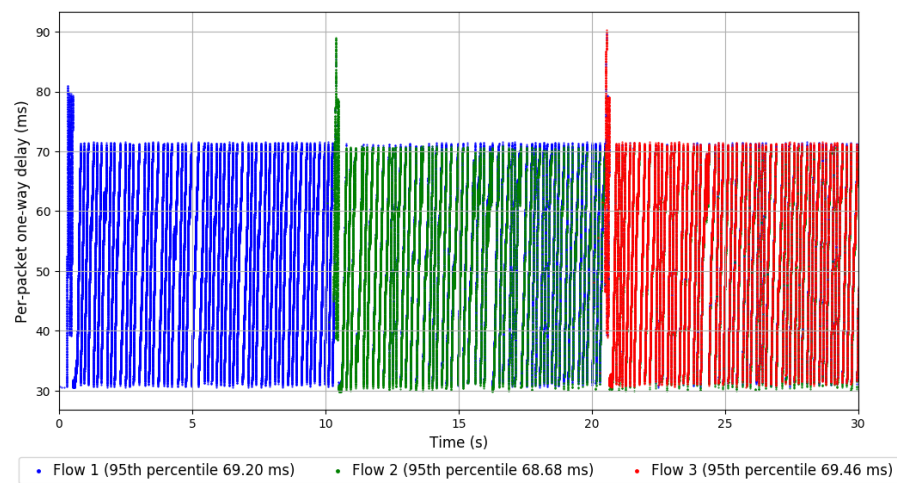
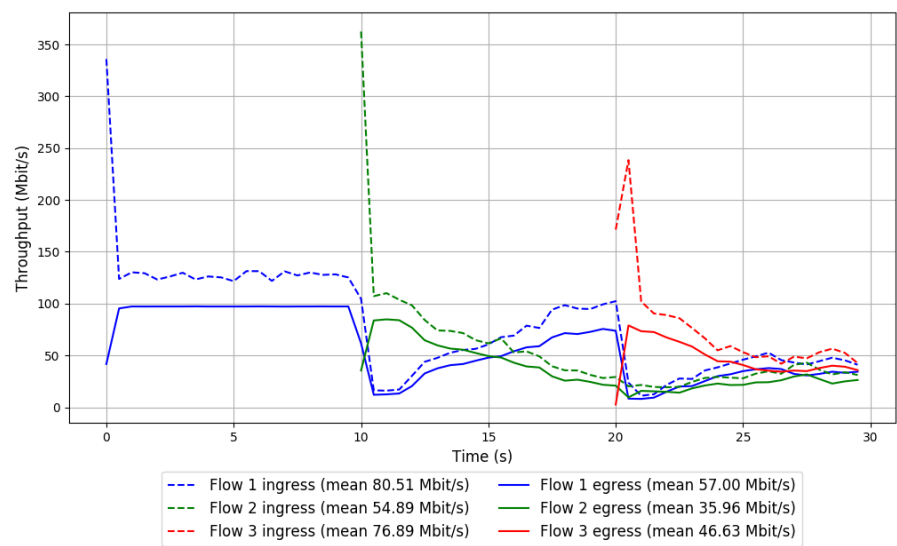


Run 9: Statistics of FillP

Start at: 2018-01-10 06:36:37
End at: 2018-01-10 06:37:07
Local clock offset: 0.186 ms
Remote clock offset: -0.467 ms

Below is generated by plot.py at 2018-01-10 08:28:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.36 Mbit/s
95th percentile per-packet one-way delay: 69.126 ms
Loss rate: 32.37%
-- Flow 1:
Average throughput: 57.00 Mbit/s
95th percentile per-packet one-way delay: 69.205 ms
Loss rate: 29.17%
-- Flow 2:
Average throughput: 35.96 Mbit/s
95th percentile per-packet one-way delay: 68.681 ms
Loss rate: 34.53%
-- Flow 3:
Average throughput: 46.63 Mbit/s
95th percentile per-packet one-way delay: 69.458 ms
Loss rate: 39.37%

Run 9: Report of FillP — Data Link

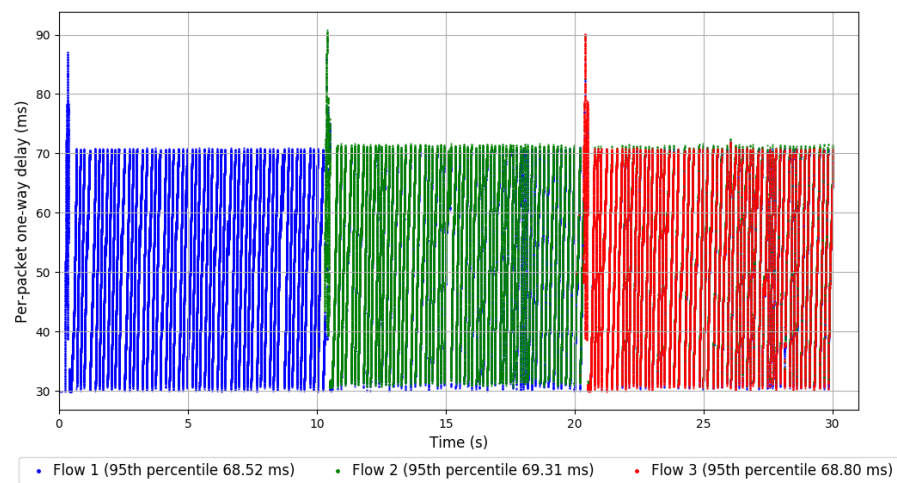
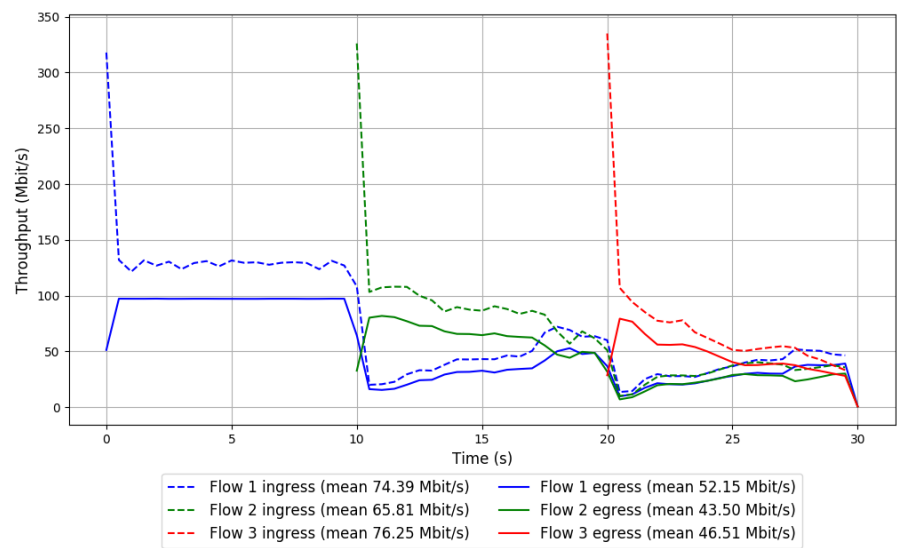


Run 10: Statistics of FillP

Start at: 2018-01-10 07:02:06
End at: 2018-01-10 07:02:36
Local clock offset: 0.085 ms
Remote clock offset: -1.915 ms

Below is generated by plot.py at 2018-01-10 08:28:37
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.53 Mbit/s
95th percentile per-packet one-way delay: 68.810 ms
Loss rate: 32.65%
-- Flow 1:
Average throughput: 52.15 Mbit/s
95th percentile per-packet one-way delay: 68.519 ms
Loss rate: 29.82%
-- Flow 2:
Average throughput: 43.50 Mbit/s
95th percentile per-packet one-way delay: 69.308 ms
Loss rate: 33.83%
-- Flow 3:
Average throughput: 46.51 Mbit/s
95th percentile per-packet one-way delay: 68.798 ms
Loss rate: 38.94%

Run 10: Report of FillP — Data Link

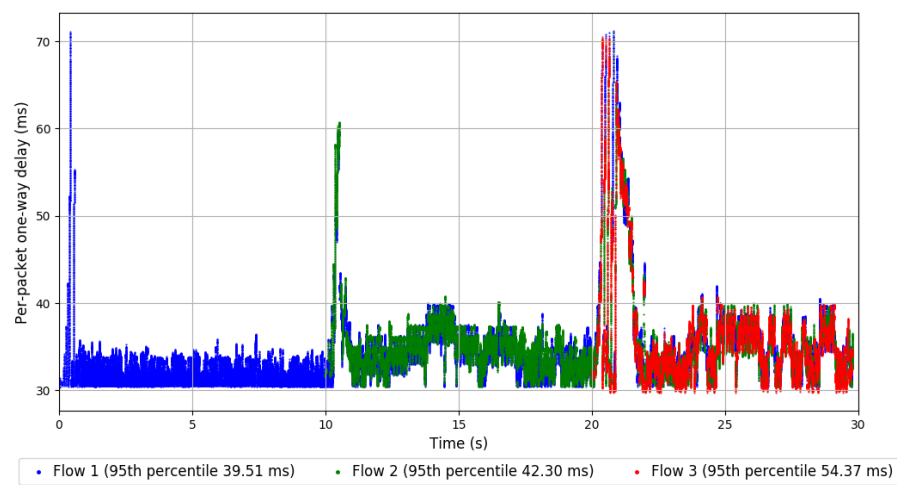
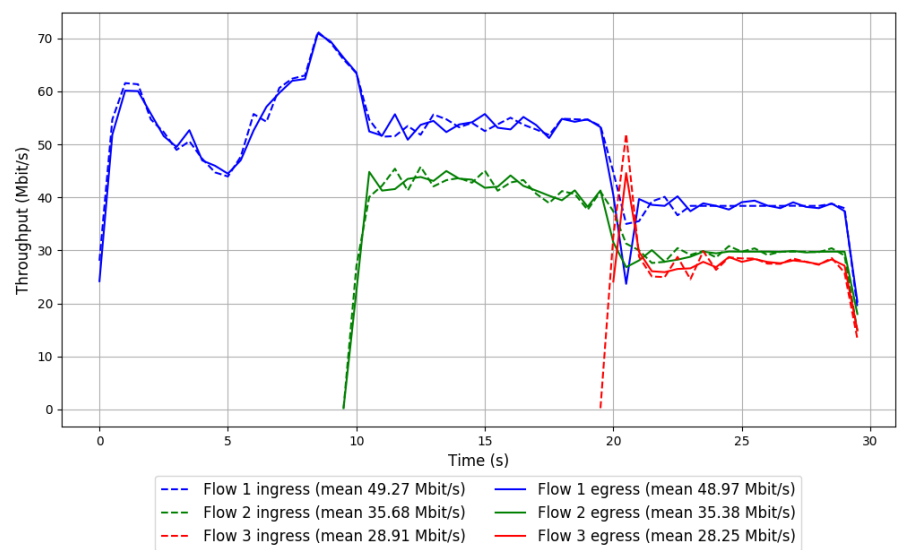


```
Run 1: Statistics of Indigo

Start at: 2018-01-10 03:26:06
End at: 2018-01-10 03:26:36
Local clock offset: 0.063 ms
Remote clock offset: 1.424 ms

# Below is generated by plot.py at 2018-01-10 08:28:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 81.77 Mbit/s
95th percentile per-packet one-way delay: 42.128 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 48.97 Mbit/s
95th percentile per-packet one-way delay: 39.511 ms
Loss rate: 0.59%
-- Flow 2:
Average throughput: 35.38 Mbit/s
95th percentile per-packet one-way delay: 42.302 ms
Loss rate: 0.80%
-- Flow 3:
Average throughput: 28.25 Mbit/s
95th percentile per-packet one-way delay: 54.365 ms
Loss rate: 2.26%
```

Run 1: Report of Indigo — Data Link

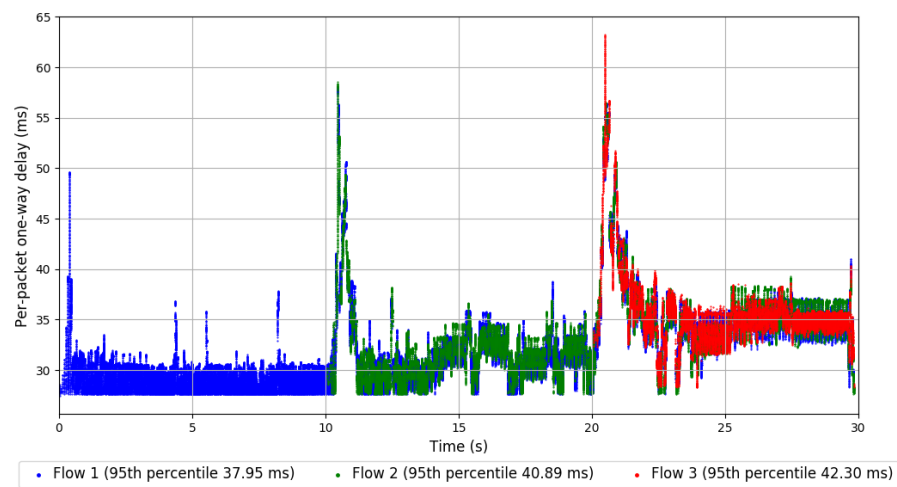
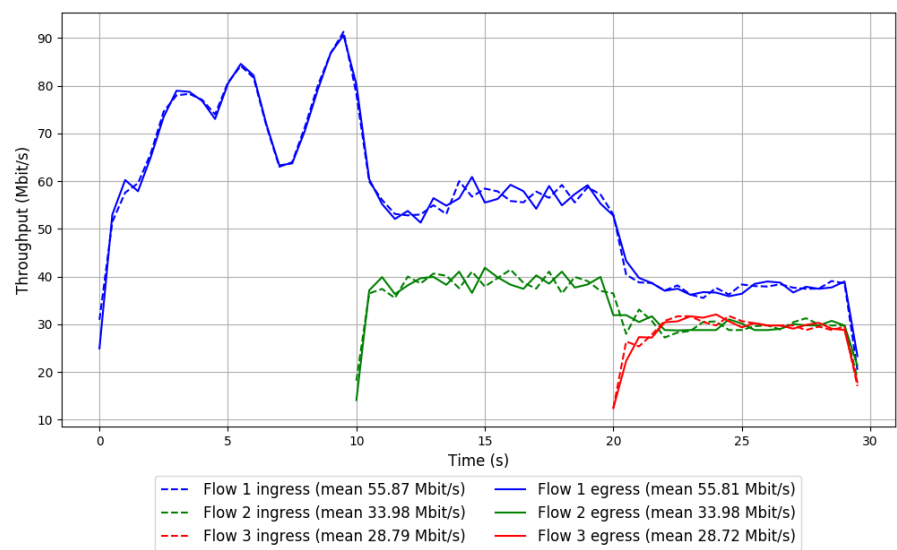


Run 2: Statistics of Indigo

Start at: 2018-01-10 03:49:21
End at: 2018-01-10 03:49:51
Local clock offset: 0.094 ms
Remote clock offset: -0.242 ms

Below is generated by plot.py at 2018-01-10 08:28:37
Datalink statistics
-- Total of 3 flows:
Average throughput: 87.72 Mbit/s
95th percentile per-packet one-way delay: 39.196 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 55.81 Mbit/s
95th percentile per-packet one-way delay: 37.950 ms
Loss rate: 0.09%
-- Flow 2:
Average throughput: 33.98 Mbit/s
95th percentile per-packet one-way delay: 40.894 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 28.72 Mbit/s
95th percentile per-packet one-way delay: 42.301 ms
Loss rate: 0.30%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2018-01-10 04:11:39

End at: 2018-01-10 04:12:09

Local clock offset: 0.364 ms

Remote clock offset: 2.491 ms

Below is generated by plot.py at 2018-01-10 08:28:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.62 Mbit/s

95th percentile per-packet one-way delay: 47.563 ms

Loss rate: 0.92%

-- Flow 1:

Average throughput: 60.55 Mbit/s

95th percentile per-packet one-way delay: 45.760 ms

Loss rate: 1.07%

-- Flow 2:

Average throughput: 27.05 Mbit/s

95th percentile per-packet one-way delay: 47.343 ms

Loss rate: 0.71%

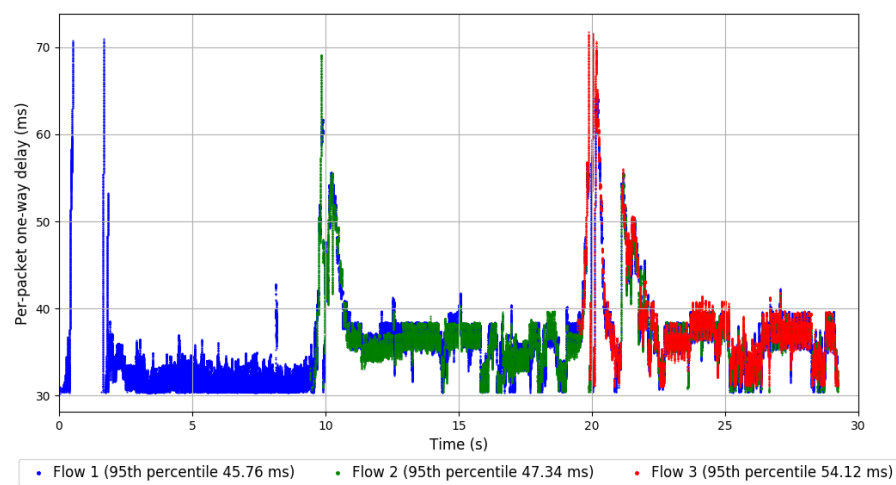
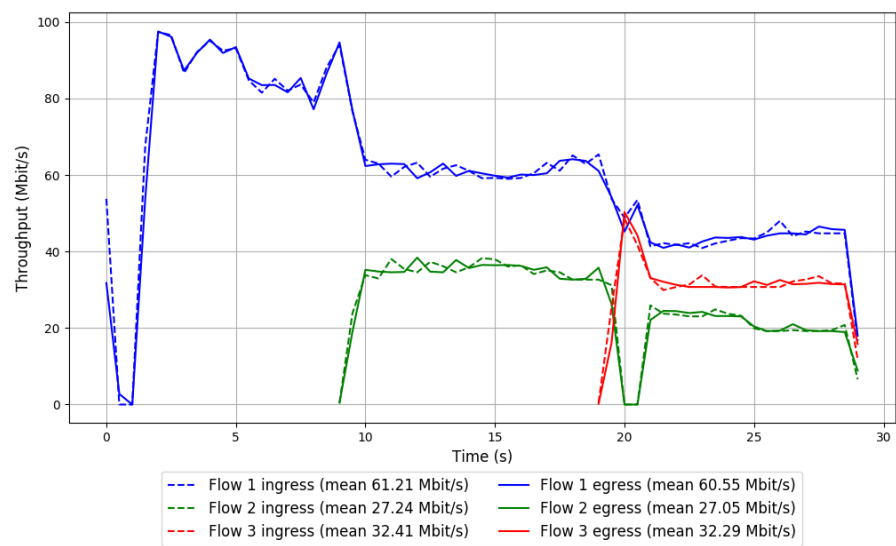
-- Flow 3:

Average throughput: 32.29 Mbit/s

95th percentile per-packet one-way delay: 54.120 ms

Loss rate: 0.42%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

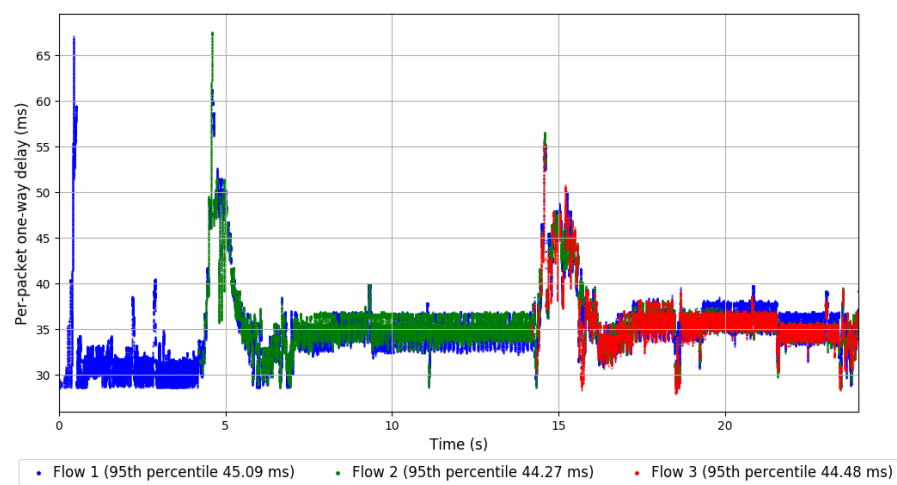
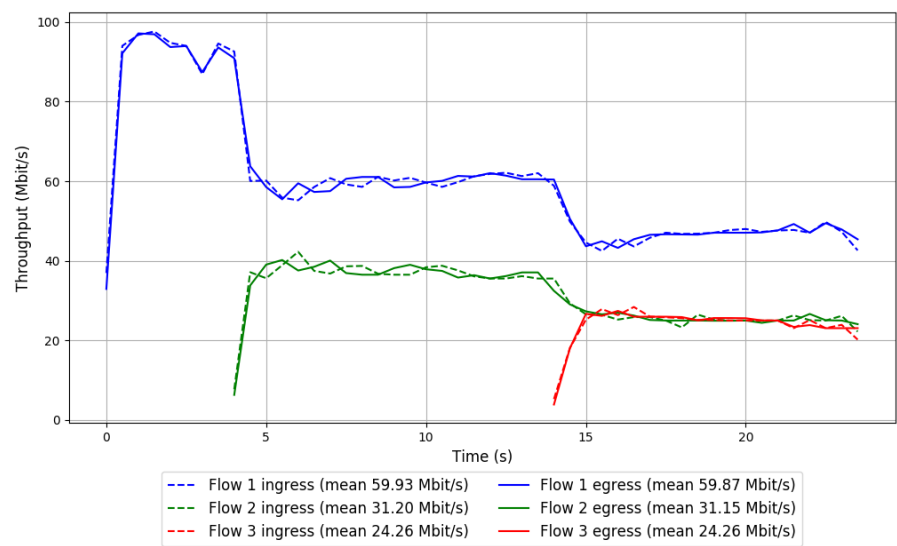
Start at: 2018-01-10 04:33:16

End at: 2018-01-10 04:33:46

Local clock offset: 0.43 ms

Remote clock offset: -0.818 ms

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2018-01-10 04:54:50

End at: 2018-01-10 04:55:20

Local clock offset: 0.614 ms

Remote clock offset: 0.577 ms

Below is generated by plot.py at 2018-01-10 08:29:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.70 Mbit/s

95th percentile per-packet one-way delay: 47.047 ms

Loss rate: 0.39%

-- Flow 1:

Average throughput: 66.05 Mbit/s

95th percentile per-packet one-way delay: 44.613 ms

Loss rate: 0.46%

-- Flow 2:

Average throughput: 28.57 Mbit/s

95th percentile per-packet one-way delay: 49.376 ms

Loss rate: 0.08%

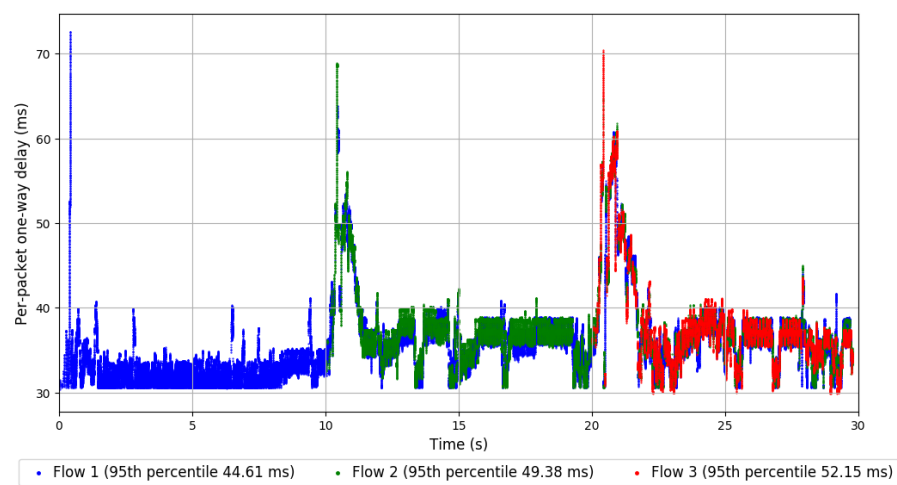
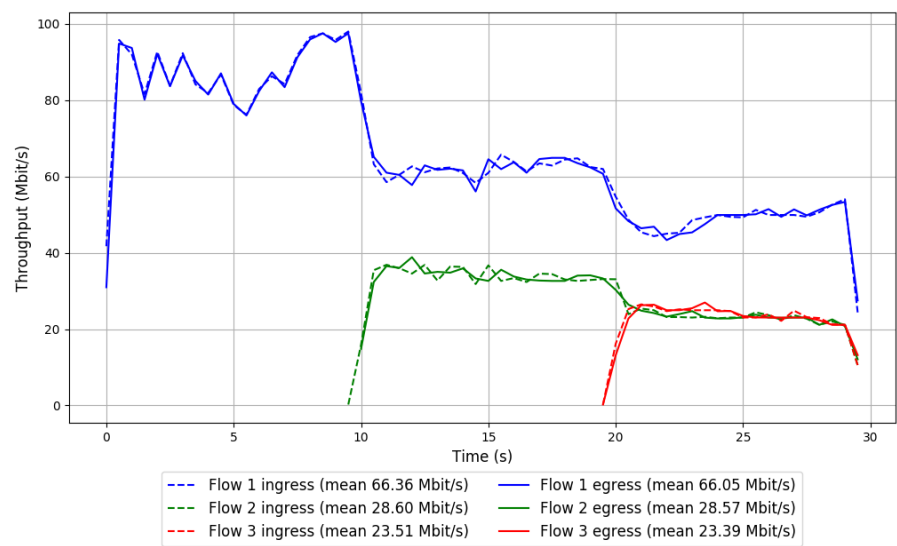
-- Flow 3:

Average throughput: 23.39 Mbit/s

95th percentile per-packet one-way delay: 52.148 ms

Loss rate: 0.54%

Run 5: Report of Indigo — Data Link

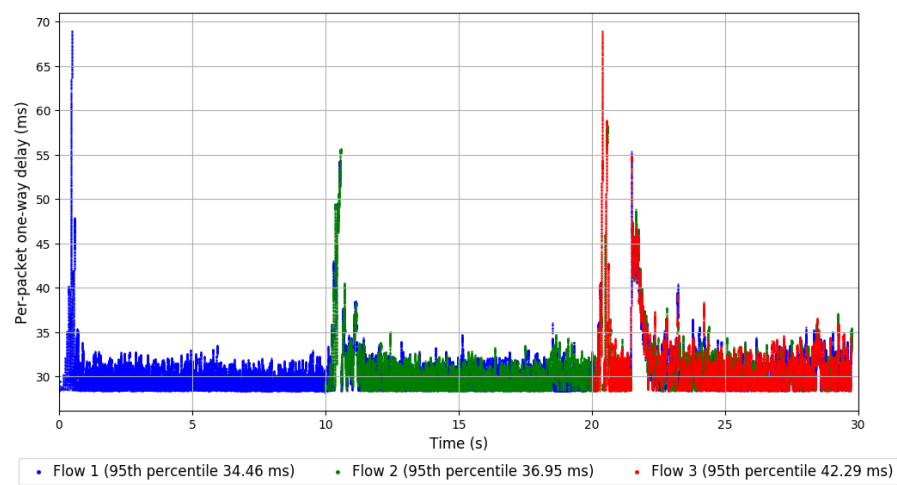
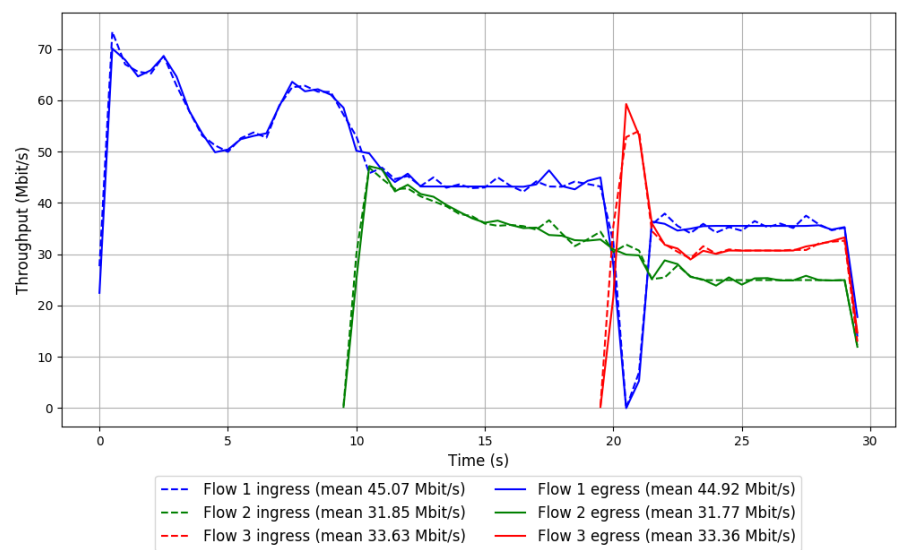


Run 6: Statistics of Indigo

Start at: 2018-01-10 05:20:06
End at: 2018-01-10 05:20:36
Local clock offset: 0.519 ms
Remote clock offset: -1.212 ms

Below is generated by plot.py at 2018-01-10 08:29:37
Datalink statistics
-- Total of 3 flows:
Average throughput: 77.02 Mbit/s
95th percentile per-packet one-way delay: 36.315 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 44.92 Mbit/s
95th percentile per-packet one-way delay: 34.462 ms
Loss rate: 0.31%
-- Flow 2:
Average throughput: 31.77 Mbit/s
95th percentile per-packet one-way delay: 36.947 ms
Loss rate: 0.22%
-- Flow 3:
Average throughput: 33.36 Mbit/s
95th percentile per-packet one-way delay: 42.292 ms
Loss rate: 0.74%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2018-01-10 05:47:46

End at: 2018-01-10 05:48:16

Local clock offset: 0.167 ms

Remote clock offset: 0.653 ms

Below is generated by plot.py at 2018-01-10 08:29:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 62.20 Mbit/s

95th percentile per-packet one-way delay: 38.917 ms

Loss rate: 1.25%

-- Flow 1:

Average throughput: 25.22 Mbit/s

95th percentile per-packet one-way delay: 38.142 ms

Loss rate: 2.03%

-- Flow 2:

Average throughput: 35.78 Mbit/s

95th percentile per-packet one-way delay: 38.097 ms

Loss rate: 0.67%

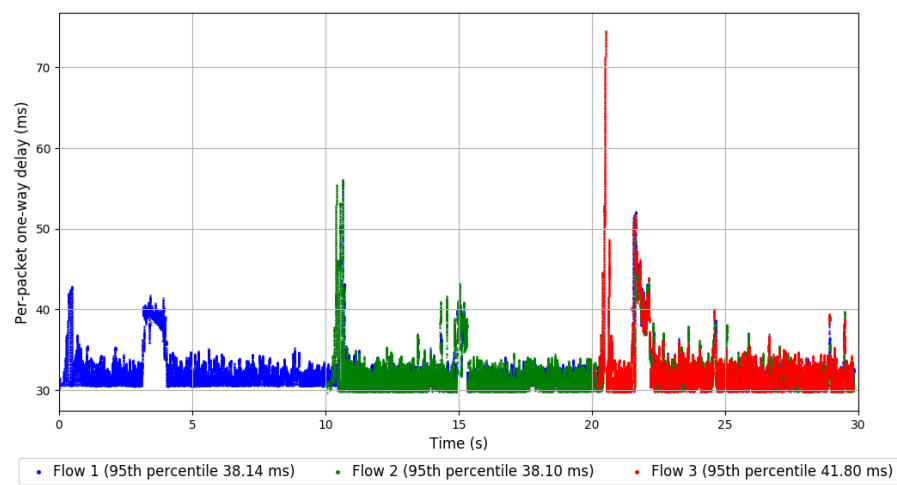
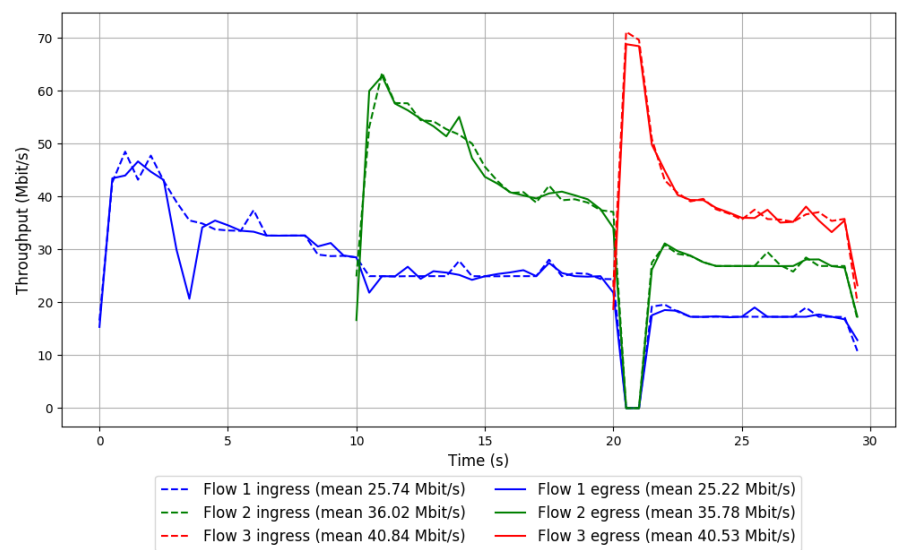
-- Flow 3:

Average throughput: 40.53 Mbit/s

95th percentile per-packet one-way delay: 41.801 ms

Loss rate: 0.79%

Run 7: Report of Indigo — Data Link

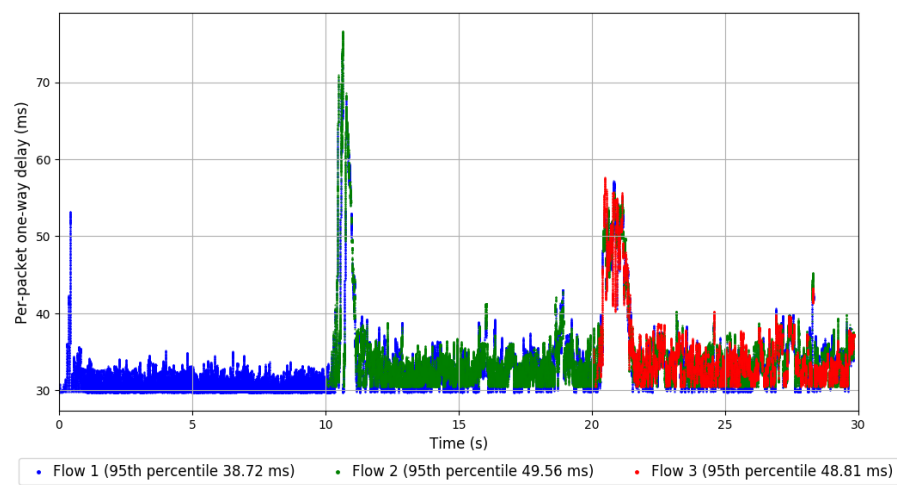
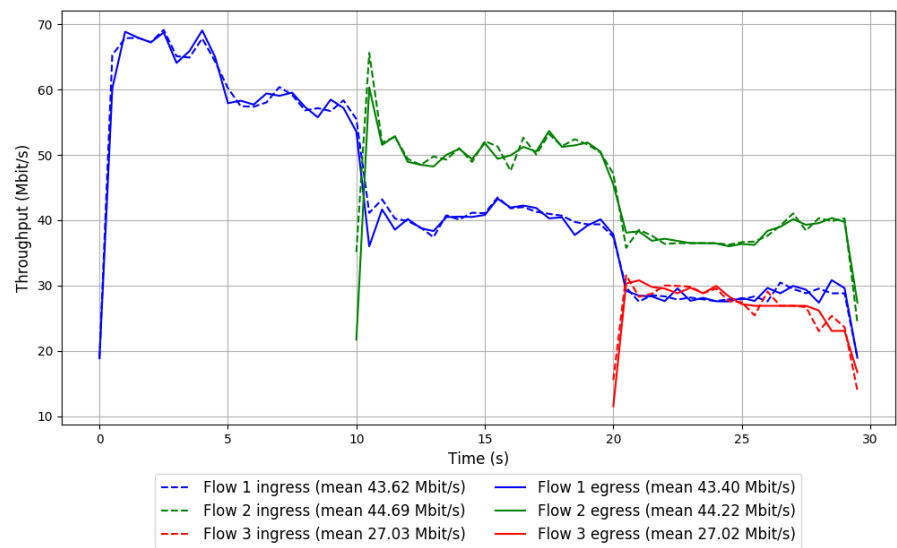


Run 8: Statistics of Indigo

Start at: 2018-01-10 06:12:50
End at: 2018-01-10 06:13:20
Local clock offset: 0.108 ms
Remote clock offset: -0.071 ms

Below is generated by plot.py at 2018-01-10 08:29:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 81.56 Mbit/s
95th percentile per-packet one-way delay: 45.360 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 43.40 Mbit/s
95th percentile per-packet one-way delay: 38.723 ms
Loss rate: 0.49%
-- Flow 2:
Average throughput: 44.22 Mbit/s
95th percentile per-packet one-way delay: 49.558 ms
Loss rate: 1.03%
-- Flow 3:
Average throughput: 27.02 Mbit/s
95th percentile per-packet one-way delay: 48.808 ms
Loss rate: 0.02%

Run 8: Report of Indigo — Data Link

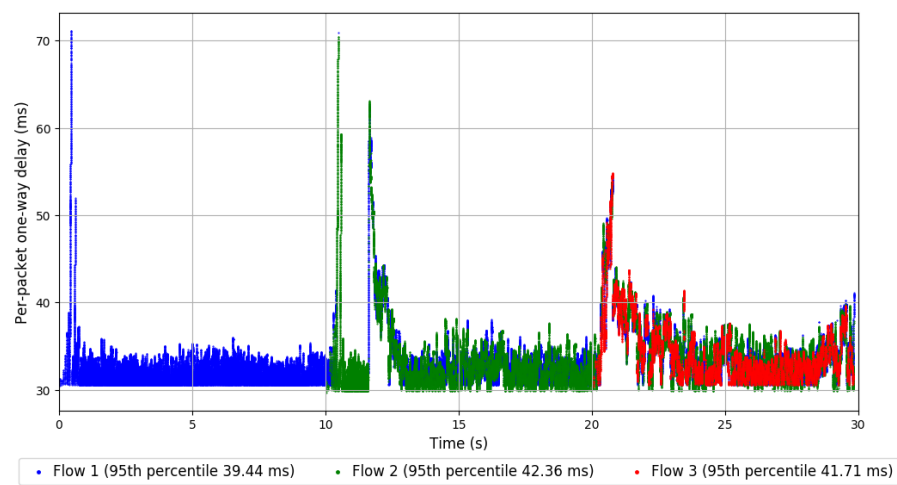
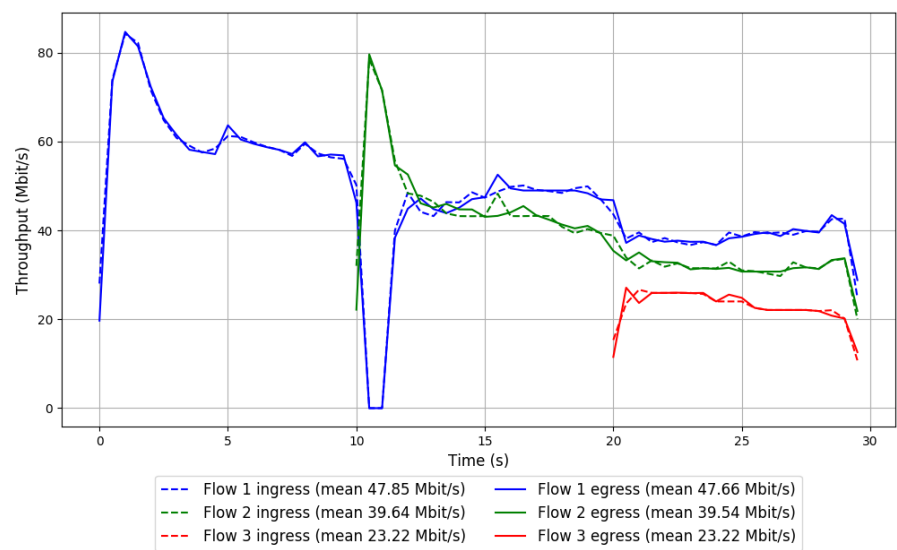


Run 9: Statistics of Indigo

Start at: 2018-01-10 06:38:21
End at: 2018-01-10 06:38:51
Local clock offset: 0.272 ms
Remote clock offset: -0.412 ms

Below is generated by plot.py at 2018-01-10 08:29:41
Datalink statistics
-- Total of 3 flows:
Average throughput: 81.50 Mbit/s
95th percentile per-packet one-way delay: 41.109 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 47.66 Mbit/s
95th percentile per-packet one-way delay: 39.443 ms
Loss rate: 0.37%
-- Flow 2:
Average throughput: 39.54 Mbit/s
95th percentile per-packet one-way delay: 42.361 ms
Loss rate: 0.22%
-- Flow 3:
Average throughput: 23.22 Mbit/s
95th percentile per-packet one-way delay: 41.709 ms
Loss rate: 0.00%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2018-01-10 07:03:54
End at: 2018-01-10 07:04:24
Local clock offset: 0.159 ms
Remote clock offset: -2.061 ms

Below is generated by plot.py at 2018-01-10 08:29:41
Datalink statistics
-- Total of 3 flows:
Average throughput: 78.83 Mbit/s
95th percentile per-packet one-way delay: 43.881 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 42.79 Mbit/s
95th percentile per-packet one-way delay: 39.835 ms
Loss rate: 0.46%
-- Flow 2:
Average throughput: 39.12 Mbit/s
95th percentile per-packet one-way delay: 44.110 ms
Loss rate: 0.36%
-- Flow 3:
Average throughput: 30.55 Mbit/s
95th percentile per-packet one-way delay: 53.994 ms
Loss rate: 0.13%

Run 10: Report of Indigo — Data Link

