

Pantheon Report

Generated at 2018-01-02 15:01:22 (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).

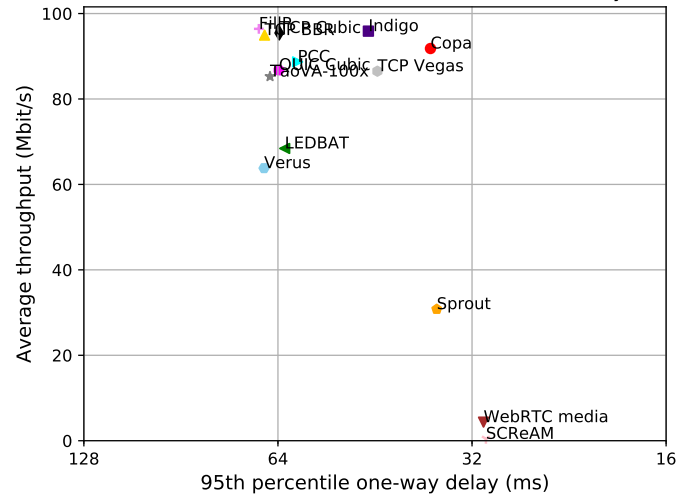
Tested BBR with qdisc of Fair Queuing (*fq*), and other schemes with the default Linux qdisc (*pfifo_fast*).

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

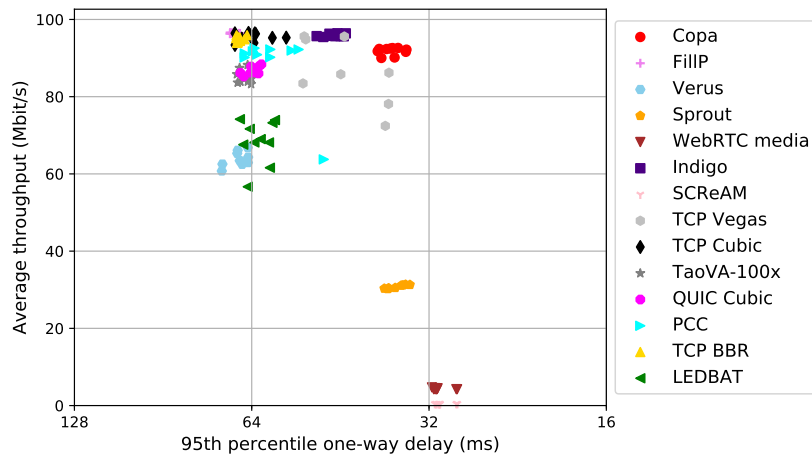
Git summary:

```
branch: master @ 904a5750834816b1e46a2c86405d707788d27c16
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ dcaef6b00654e660f73f7ed679d2eab61ce08639
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 @ f1a14bffe749737437f61b1eaeab30b267cde681
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	69.81	24.87	28.49	67.07	66.98	67.38	24.66	31.54	30.62
TCP Cubic	10	61.36	33.97	34.63	63.35	63.98	63.21	0.51	0.44	0.81
LEDBAT	10	41.06	30.54	21.70	61.04	62.87	63.49	0.14	0.13	0.10
PCC	10	74.53	16.85	8.96	59.23	60.96	61.10	1.67	1.85	2.12
QUIC Cubic	10	58.21	28.81	28.60	63.01	64.15	64.98	1.44	1.39	1.06
SCReAM	10	0.22	0.22	0.22	30.08	30.13	30.11	0.00	0.00	0.00
WebRTC media	10	2.31	1.49	0.57	30.40	30.66	30.95	0.03	0.01	0.01
Sprout	8	15.70	15.30	14.92	35.11	36.91	37.21	0.09	0.06	0.20
TaoVA-100x	10	51.98	38.86	30.13	63.48	66.35	66.57	14.84	26.20	18.07
TCP Vegas	8	49.22	44.69	20.14	322.32	40.53	39.95	0.40	0.14	0.03
Verus	10	41.90	24.33	19.09	66.11	68.24	66.42	38.63	46.39	43.44
Copa	10	63.67	33.03	24.49	36.88	37.32	37.65	0.01	0.02	0.03
FillP	10	50.58	40.59	57.03	68.40	68.71	68.57	27.38	33.23	36.40
Indigo	10	66.27	30.81	28.03	43.32	48.73	51.84	0.25	0.38	0.33

Run 1: Statistics of TCP BBR

Start at: 2018-01-02 10:59:44

End at: 2018-01-02 11:00:14

Local clock offset: 0.763 ms

Remote clock offset: -1.56 ms

Below is generated by plot.py at 2018-01-02 14:40:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.87 Mbit/s

95th percentile per-packet one-way delay: 65.853 ms

Loss rate: 24.84%

-- Flow 1:

Average throughput: 77.72 Mbit/s

95th percentile per-packet one-way delay: 66.002 ms

Loss rate: 24.89%

-- Flow 2:

Average throughput: 24.10 Mbit/s

95th percentile per-packet one-way delay: 65.108 ms

Loss rate: 23.91%

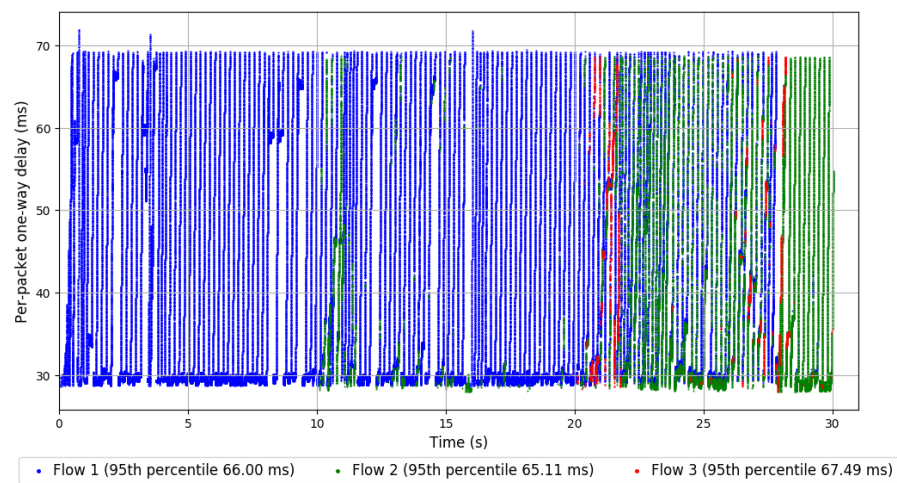
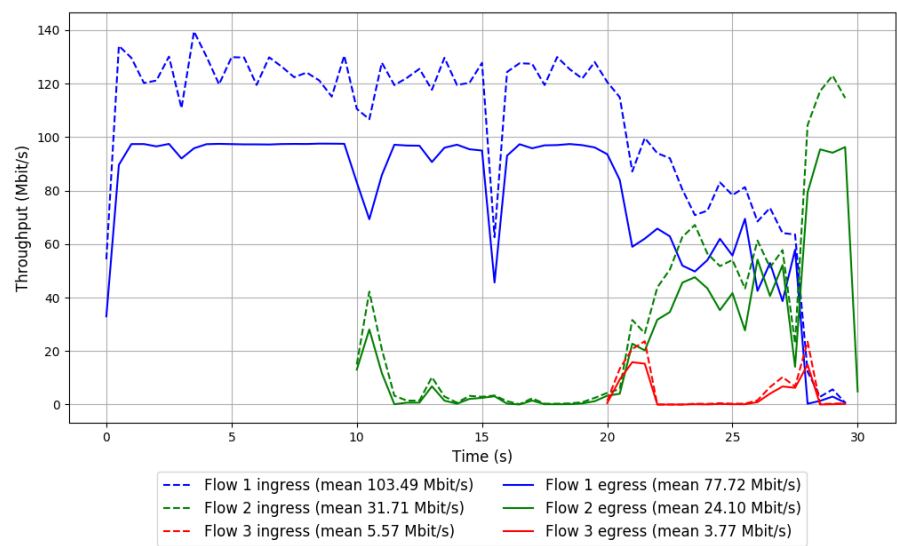
-- Flow 3:

Average throughput: 3.77 Mbit/s

95th percentile per-packet one-way delay: 67.489 ms

Loss rate: 32.22%

Run 1: Report of TCP BBR — Data Link

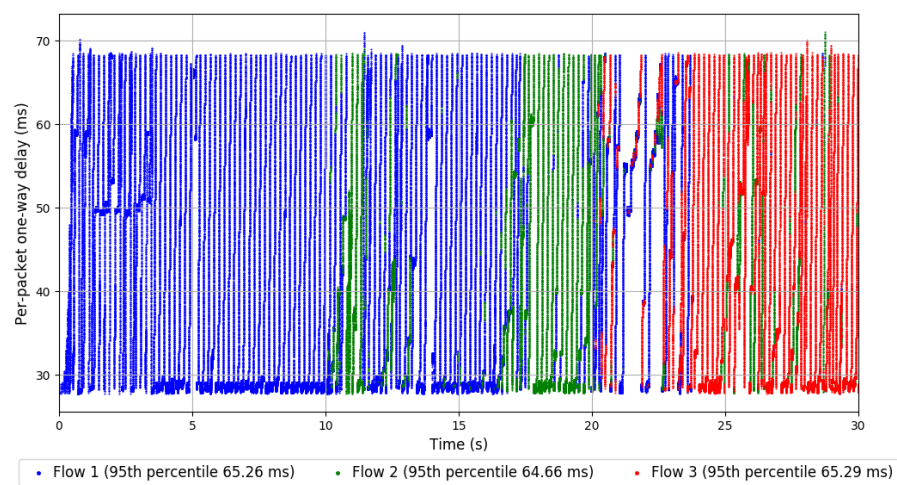
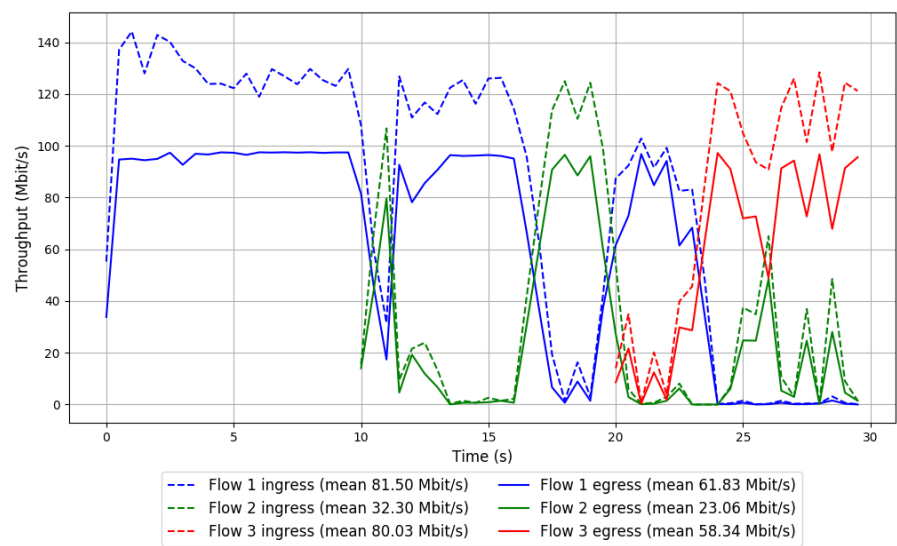


Run 2: Statistics of TCP BBR

Start at: 2018-01-02 11:20:36
End at: 2018-01-02 11:21:06
Local clock offset: 0.869 ms
Remote clock offset: -2.119 ms

Below is generated by plot.py at 2018-01-02 14:40:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 95.91 Mbit/s
95th percentile per-packet one-way delay: 65.165 ms
Loss rate: 25.60%
-- Flow 1:
Average throughput: 61.83 Mbit/s
95th percentile per-packet one-way delay: 65.256 ms
Loss rate: 24.27%
-- Flow 2:
Average throughput: 23.06 Mbit/s
95th percentile per-packet one-way delay: 64.662 ms
Loss rate: 28.53%
-- Flow 3:
Average throughput: 58.34 Mbit/s
95th percentile per-packet one-way delay: 65.290 ms
Loss rate: 27.26%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-01-02 11:41:39

End at: 2018-01-02 11:42:09

Local clock offset: 0.994 ms

Remote clock offset: 0.514 ms

Below is generated by plot.py at 2018-01-02 14:40:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.96 Mbit/s

95th percentile per-packet one-way delay: 67.781 ms

Loss rate: 26.52%

-- Flow 1:

Average throughput: 83.98 Mbit/s

95th percentile per-packet one-way delay: 67.570 ms

Loss rate: 25.56%

-- Flow 2:

Average throughput: 9.99 Mbit/s

95th percentile per-packet one-way delay: 68.569 ms

Loss rate: 33.89%

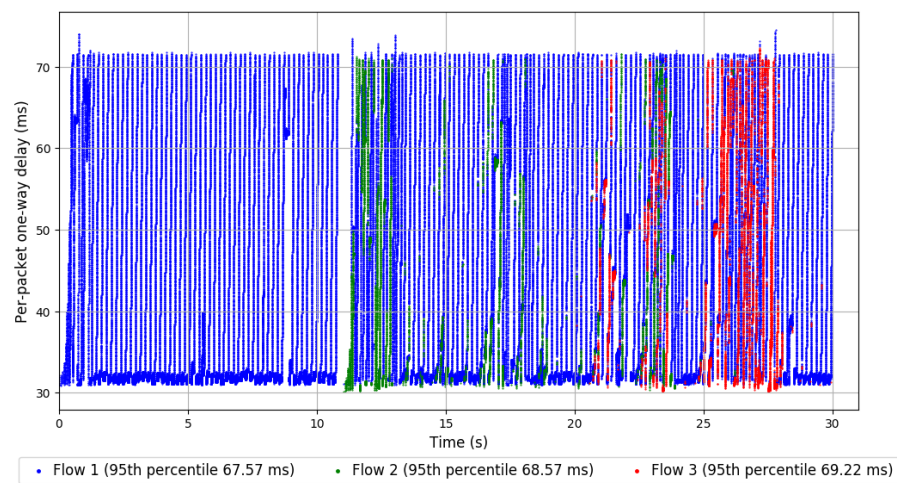
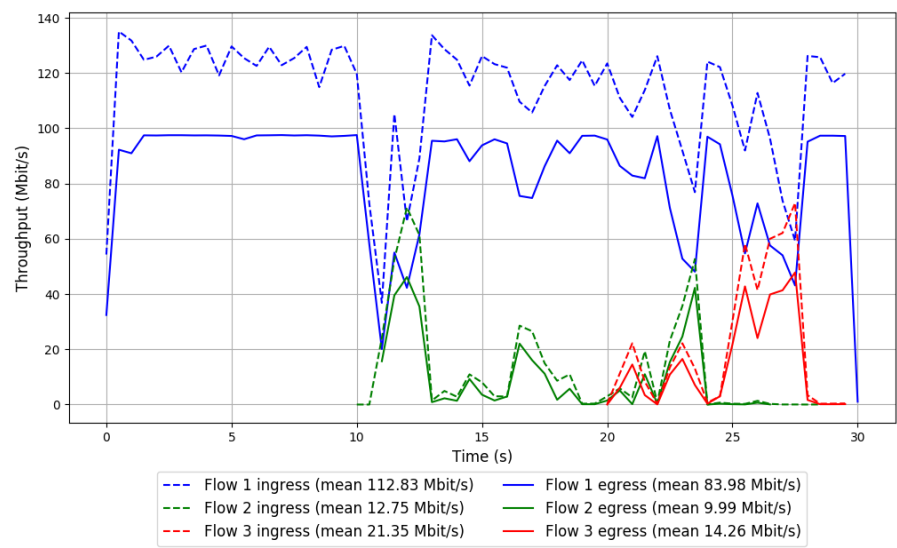
-- Flow 3:

Average throughput: 14.26 Mbit/s

95th percentile per-packet one-way delay: 69.220 ms

Loss rate: 33.61%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-01-02 12:02:30

End at: 2018-01-02 12:03:00

Local clock offset: 0.907 ms

Remote clock offset: 0.641 ms

Below is generated by plot.py at 2018-01-02 14:40:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.25 Mbit/s

95th percentile per-packet one-way delay: 67.056 ms

Loss rate: 25.28%

-- Flow 1:

Average throughput: 40.37 Mbit/s

95th percentile per-packet one-way delay: 66.629 ms

Loss rate: 25.46%

-- Flow 2:

Average throughput: 77.35 Mbit/s

95th percentile per-packet one-way delay: 67.103 ms

Loss rate: 24.96%

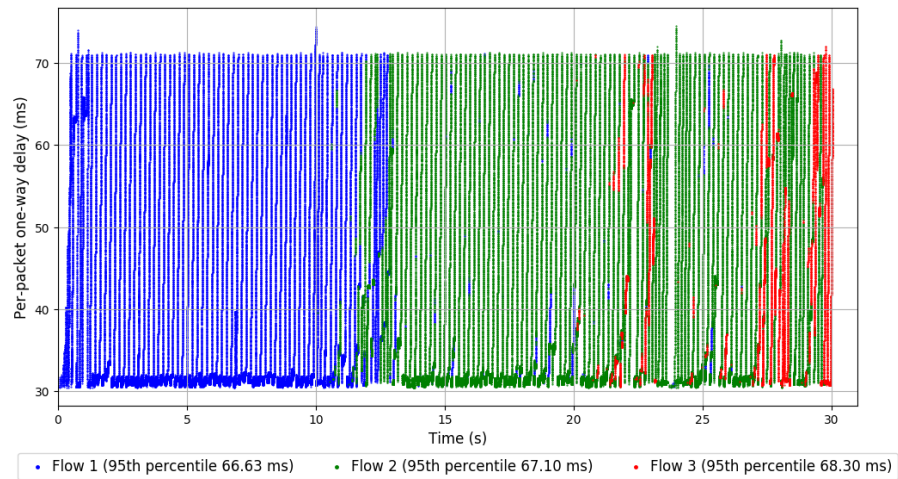
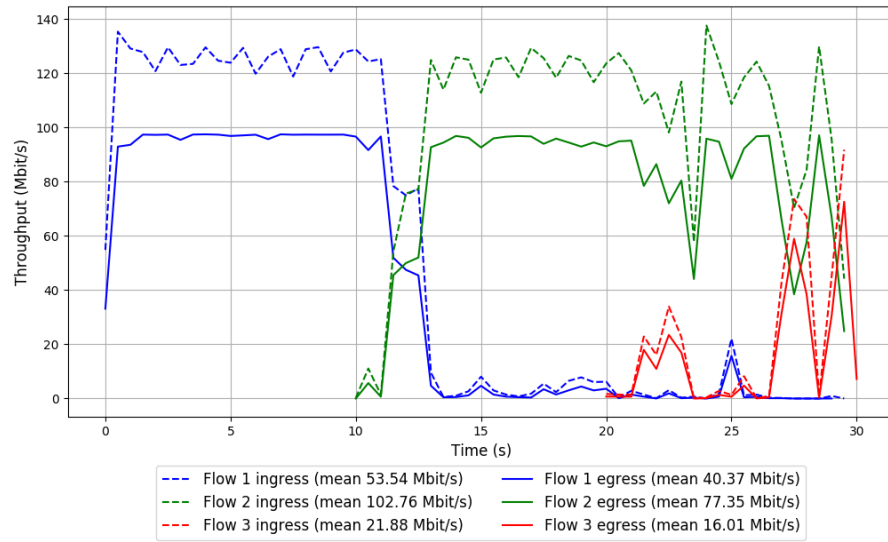
-- Flow 3:

Average throughput: 16.01 Mbit/s

95th percentile per-packet one-way delay: 68.298 ms

Loss rate: 26.85%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-01-02 12:23:32

End at: 2018-01-02 12:24:02

Local clock offset: 0.883 ms

Remote clock offset: 0.27 ms

Below is generated by plot.py at 2018-01-02 14:40:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.38 Mbit/s

95th percentile per-packet one-way delay: 67.344 ms

Loss rate: 24.18%

-- Flow 1:

Average throughput: 66.99 Mbit/s

95th percentile per-packet one-way delay: 67.188 ms

Loss rate: 23.81%

-- Flow 2:

Average throughput: 41.85 Mbit/s

95th percentile per-packet one-way delay: 67.598 ms

Loss rate: 24.65%

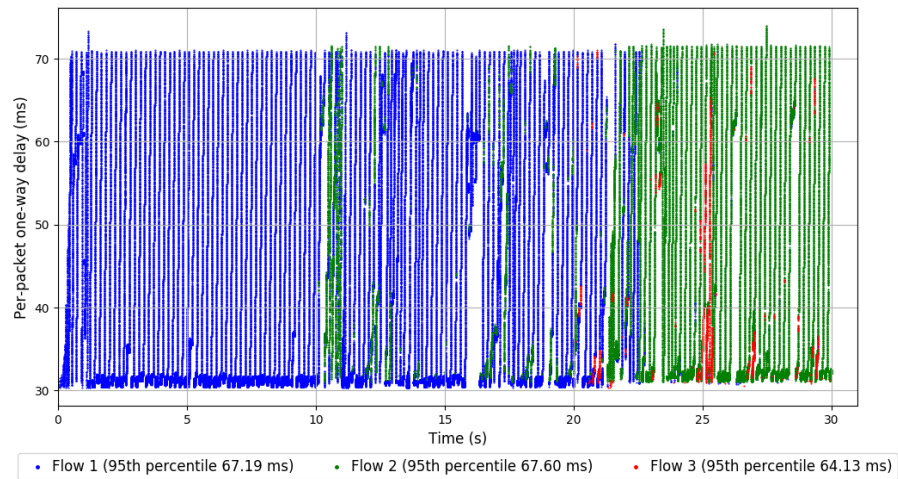
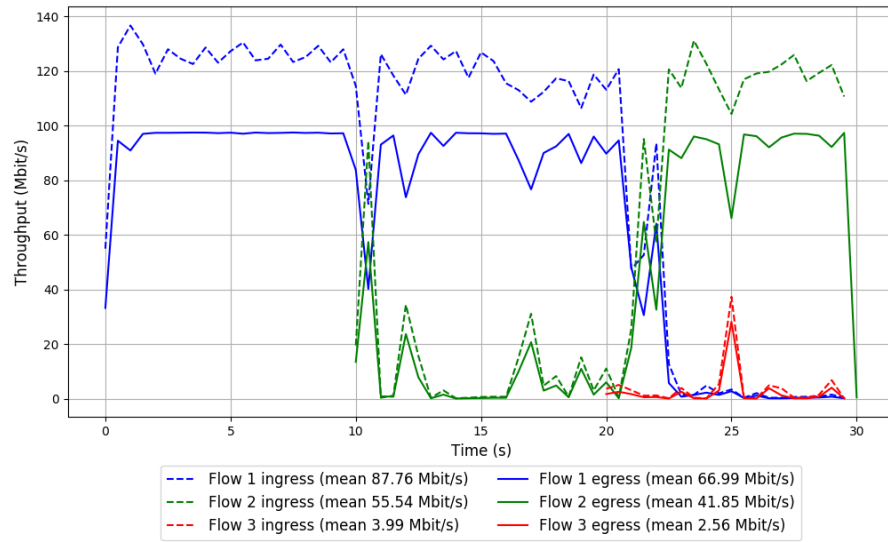
-- Flow 3:

Average throughput: 2.56 Mbit/s

95th percentile per-packet one-way delay: 64.130 ms

Loss rate: 35.80%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-01-02 12:44:18

End at: 2018-01-02 12:44:48

Local clock offset: 0.776 ms

Remote clock offset: 0.001 ms

Below is generated by plot.py at 2018-01-02 14:40:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.89 Mbit/s

95th percentile per-packet one-way delay: 67.917 ms

Loss rate: 26.54%

-- Flow 1:

Average throughput: 63.50 Mbit/s

95th percentile per-packet one-way delay: 67.884 ms

Loss rate: 24.71%

-- Flow 2:

Average throughput: 29.89 Mbit/s

95th percentile per-packet one-way delay: 67.639 ms

Loss rate: 27.34%

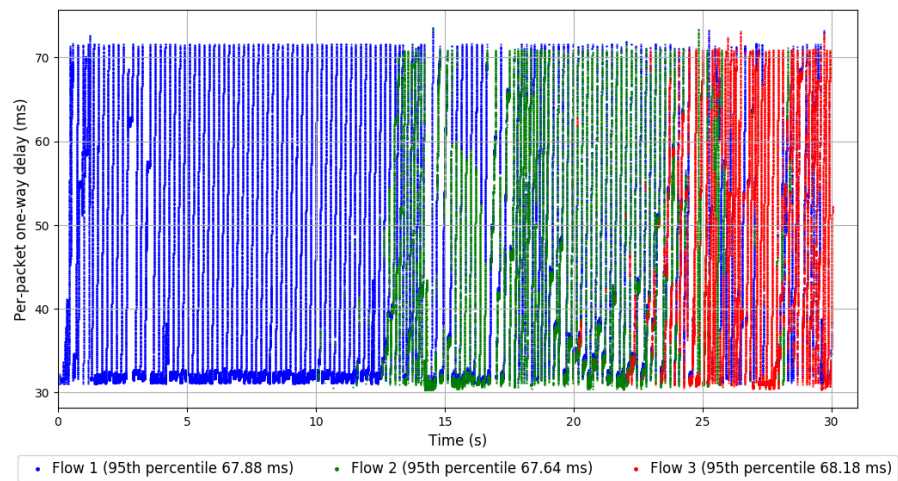
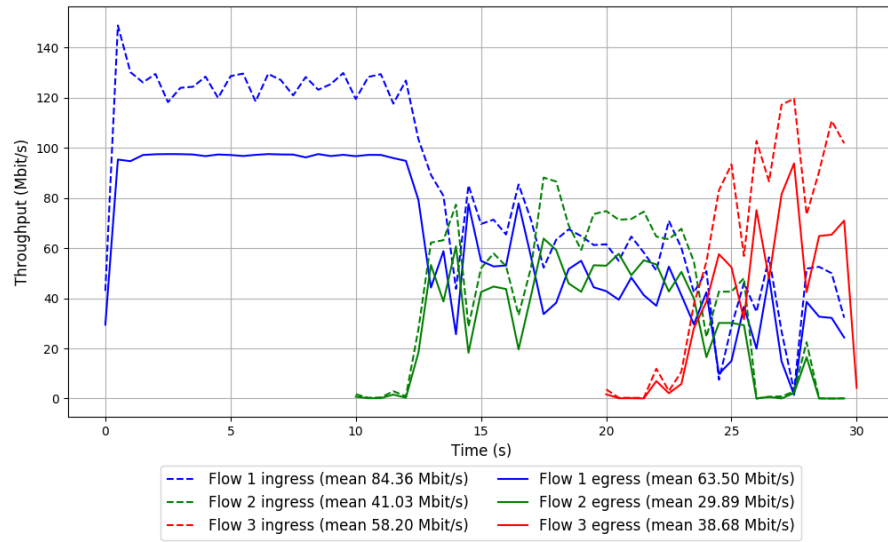
-- Flow 3:

Average throughput: 38.68 Mbit/s

95th percentile per-packet one-way delay: 68.183 ms

Loss rate: 33.42%

Run 6: Report of TCP BBR — Data Link

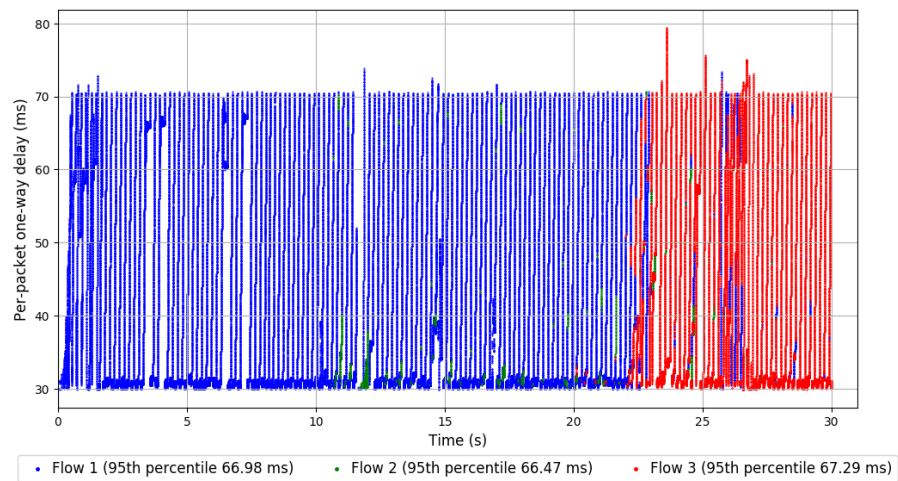
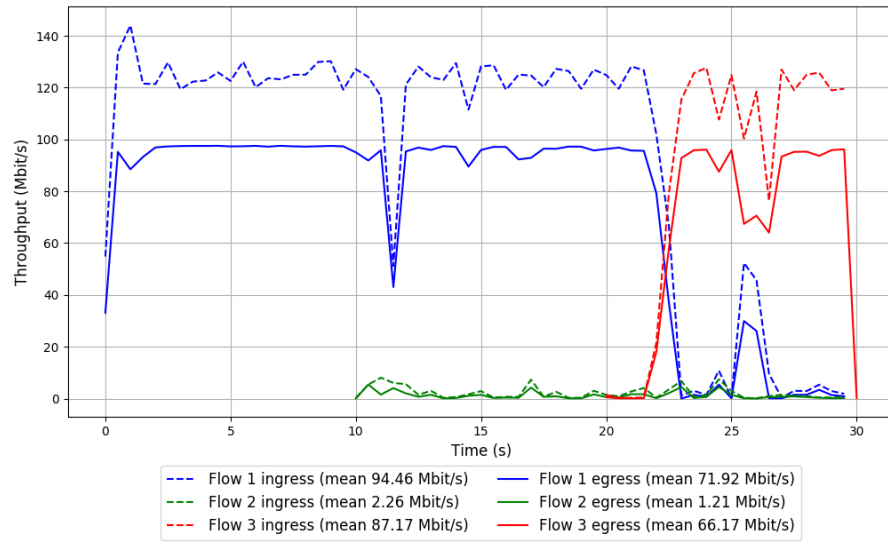


Run 7: Statistics of TCP BBR

Start at: 2018-01-02 13:04:51
End at: 2018-01-02 13:05:21
Local clock offset: 0.864 ms
Remote clock offset: -0.986 ms

Below is generated by plot.py at 2018-01-02 14:40:23
Datalink statistics
-- Total of 3 flows:
Average throughput: 94.46 Mbit/s
95th percentile per-packet one-way delay: 67.000 ms
Loss rate: 24.29%
-- Flow 1:
Average throughput: 71.92 Mbit/s
95th percentile per-packet one-way delay: 66.976 ms
Loss rate: 24.00%
-- Flow 2:
Average throughput: 1.21 Mbit/s
95th percentile per-packet one-way delay: 66.474 ms
Loss rate: 46.39%
-- Flow 3:
Average throughput: 66.17 Mbit/s
95th percentile per-packet one-way delay: 67.288 ms
Loss rate: 24.10%

Run 7: Report of TCP BBR — Data Link

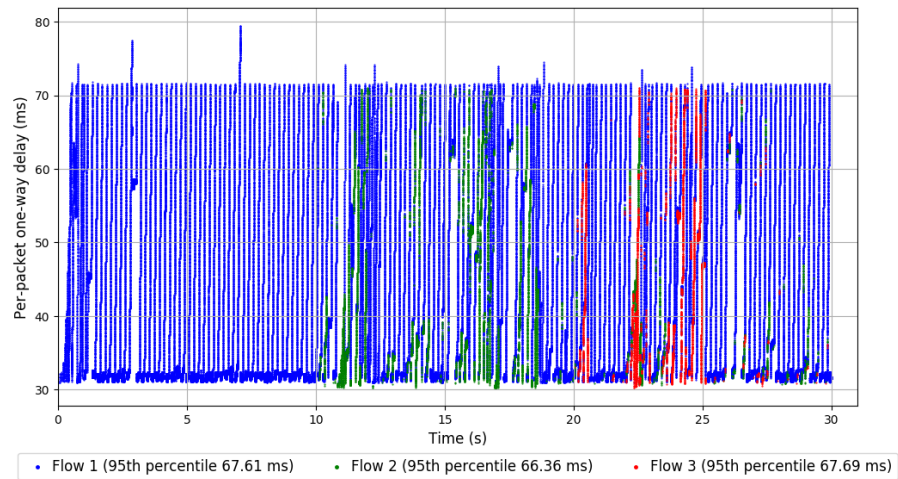
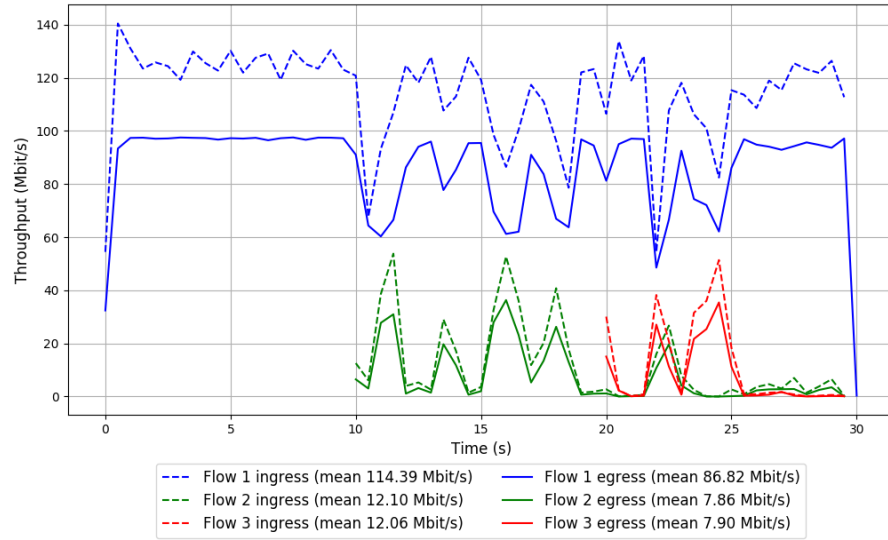


Run 8: Statistics of TCP BBR

Start at: 2018-01-02 13:25:33
End at: 2018-01-02 13:26:03
Local clock offset: 0.933 ms
Remote clock offset: -0.456 ms

Below is generated by plot.py at 2018-01-02 14:40:23
Datalink statistics
-- Total of 3 flows:
Average throughput: 94.59 Mbit/s
95th percentile per-packet one-way delay: 67.593 ms
Loss rate: 25.15%
-- Flow 1:
Average throughput: 86.82 Mbit/s
95th percentile per-packet one-way delay: 67.613 ms
Loss rate: 24.09%
-- Flow 2:
Average throughput: 7.86 Mbit/s
95th percentile per-packet one-way delay: 66.359 ms
Loss rate: 35.33%
-- Flow 3:
Average throughput: 7.90 Mbit/s
95th percentile per-packet one-way delay: 67.686 ms
Loss rate: 34.91%

Run 8: Report of TCP BBR — Data Link

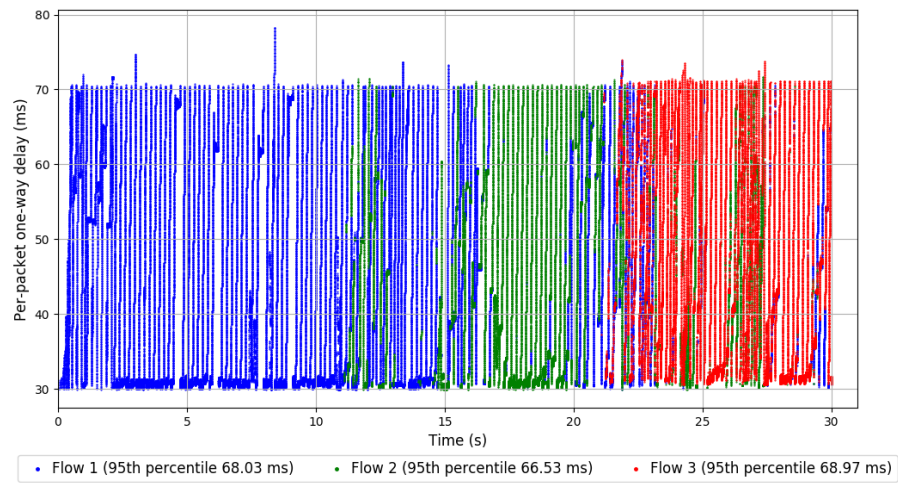
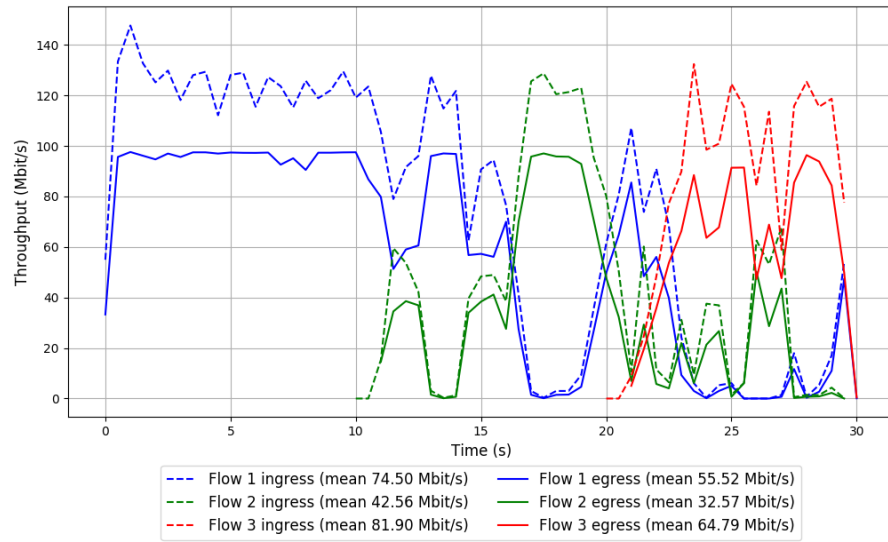


Run 9: Statistics of TCP BBR

Start at: 2018-01-02 13:46:14
End at: 2018-01-02 13:46:44
Local clock offset: 0.597 ms
Remote clock offset: -0.623 ms

Below is generated by plot.py at 2018-01-02 14:41:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 95.18 Mbit/s
95th percentile per-packet one-way delay: 68.001 ms
Loss rate: 26.68%
-- Flow 1:
Average throughput: 55.52 Mbit/s
95th percentile per-packet one-way delay: 68.025 ms
Loss rate: 25.48%
-- Flow 2:
Average throughput: 32.57 Mbit/s
95th percentile per-packet one-way delay: 66.527 ms
Loss rate: 27.60%
-- Flow 3:
Average throughput: 64.79 Mbit/s
95th percentile per-packet one-way delay: 68.971 ms
Loss rate: 29.03%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-01-02 14:07:20

End at: 2018-01-02 14:07:50

Local clock offset: 0.533 ms

Remote clock offset: -0.15 ms

Below is generated by plot.py at 2018-01-02 14:41:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.07 Mbit/s

95th percentile per-packet one-way delay: 67.599 ms

Loss rate: 24.66%

-- Flow 1:

Average throughput: 89.44 Mbit/s

95th percentile per-packet one-way delay: 67.596 ms

Loss rate: 24.30%

-- Flow 2:

Average throughput: 0.85 Mbit/s

95th percentile per-packet one-way delay: 69.712 ms

Loss rate: 42.78%

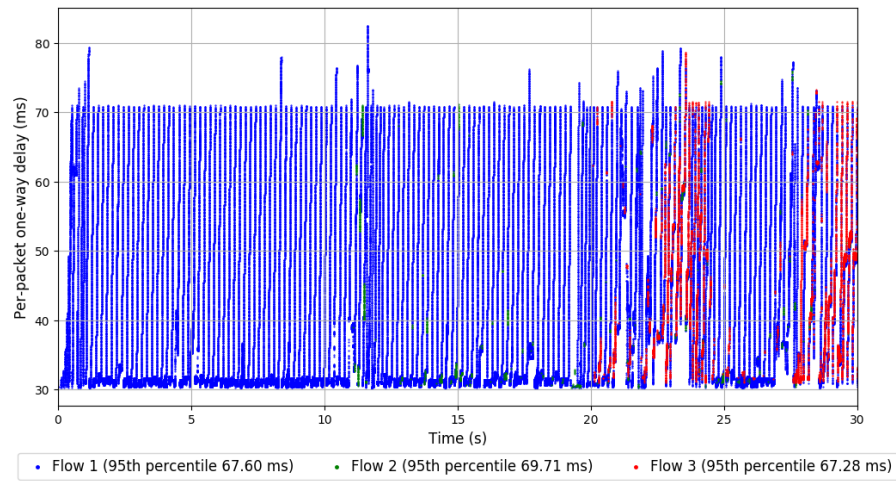
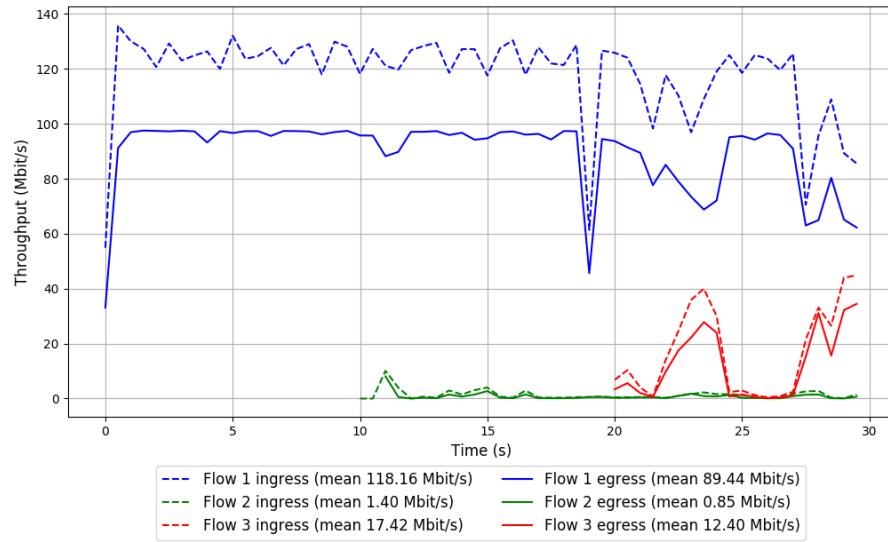
-- Flow 3:

Average throughput: 12.40 Mbit/s

95th percentile per-packet one-way delay: 67.285 ms

Loss rate: 29.03%

Run 10: Report of TCP BBR — Data Link

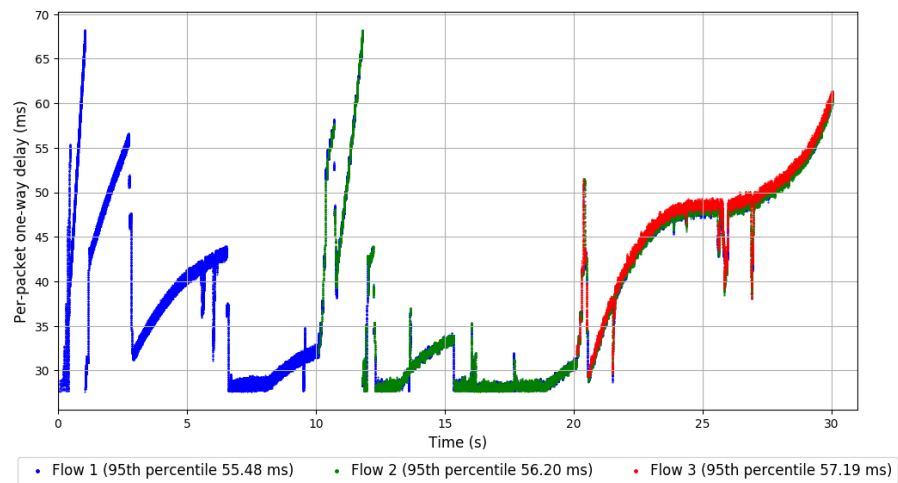
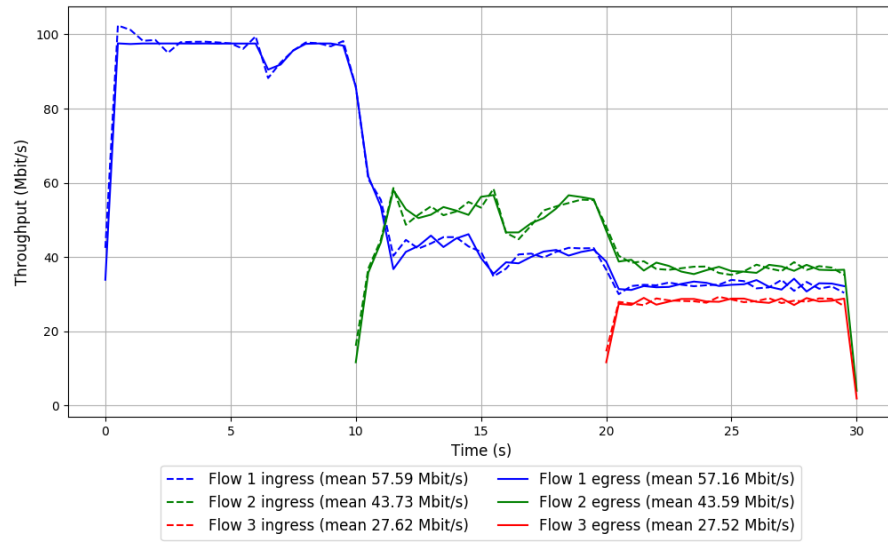


Run 1: Statistics of TCP Cubic

Start at: 2018-01-02 10:48:52
End at: 2018-01-02 10:49:22
Local clock offset: 0.751 ms
Remote clock offset: -1.276 ms

Below is generated by plot.py at 2018-01-02 14:41:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 95.29 Mbit/s
95th percentile per-packet one-way delay: 55.919 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 57.16 Mbit/s
95th percentile per-packet one-way delay: 55.481 ms
Loss rate: 0.63%
-- Flow 2:
Average throughput: 43.59 Mbit/s
95th percentile per-packet one-way delay: 56.199 ms
Loss rate: 0.16%
-- Flow 3:
Average throughput: 27.52 Mbit/s
95th percentile per-packet one-way delay: 57.188 ms
Loss rate: 0.08%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-01-02 11:09:49

End at: 2018-01-02 11:10:19

Local clock offset: 0.839 ms

Remote clock offset: 0.549 ms

Below is generated by plot.py at 2018-01-02 14:41:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.28 Mbit/s

95th percentile per-packet one-way delay: 63.033 ms

Loss rate: 0.44%

-- Flow 1:

Average throughput: 66.27 Mbit/s

95th percentile per-packet one-way delay: 62.971 ms

Loss rate: 0.45%

-- Flow 2:

Average throughput: 33.14 Mbit/s

95th percentile per-packet one-way delay: 63.512 ms

Loss rate: 0.27%

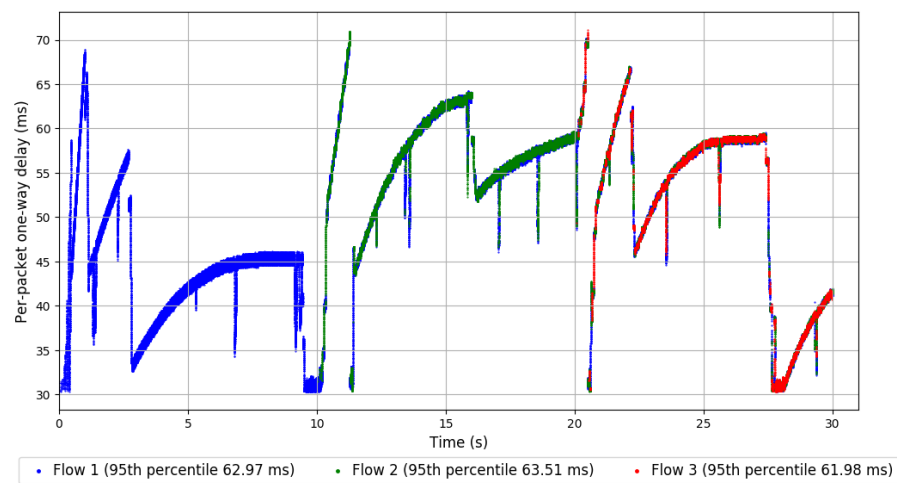
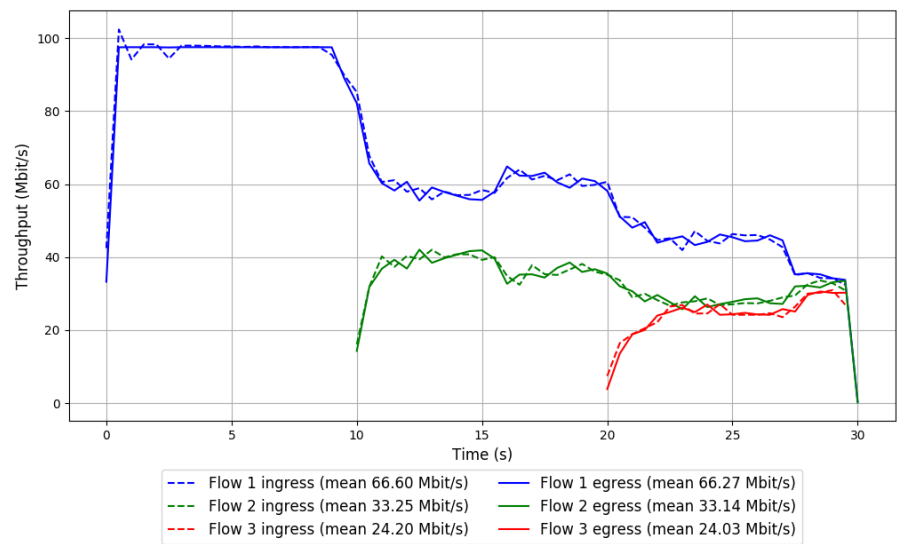
-- Flow 3:

Average throughput: 24.03 Mbit/s

95th percentile per-packet one-way delay: 61.984 ms

Loss rate: 0.80%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-01-02 11:30:37

End at: 2018-01-02 11:31:07

Local clock offset: 0.967 ms

Remote clock offset: 0.488 ms

Below is generated by plot.py at 2018-01-02 14:41:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.42 Mbit/s

95th percentile per-packet one-way delay: 68.353 ms

Loss rate: 0.63%

-- Flow 1:

Average throughput: 67.23 Mbit/s

95th percentile per-packet one-way delay: 68.403 ms

Loss rate: 0.67%

-- Flow 2:

Average throughput: 31.80 Mbit/s

95th percentile per-packet one-way delay: 66.896 ms

Loss rate: 0.24%

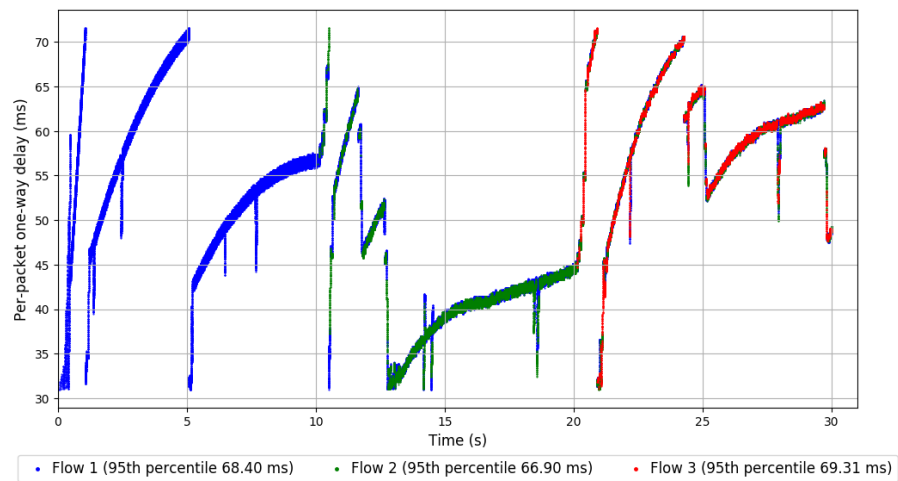
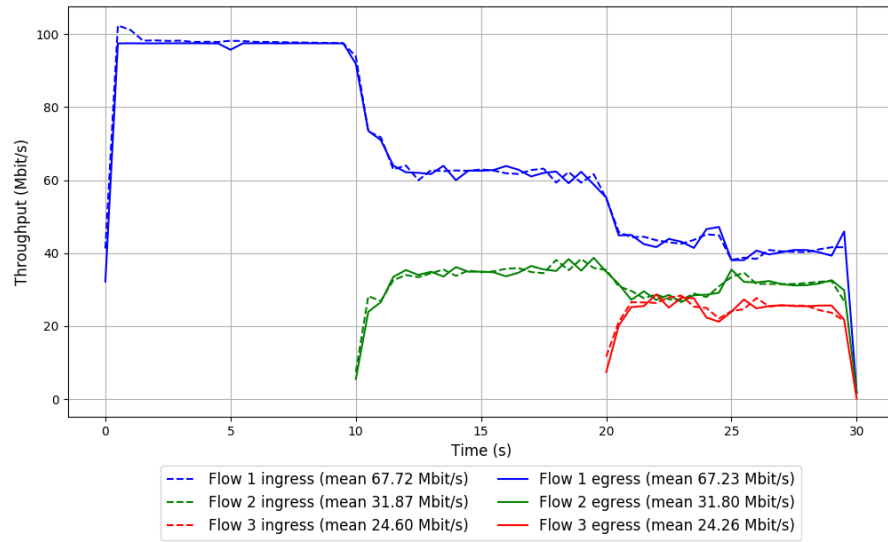
-- Flow 3:

Average throughput: 24.26 Mbit/s

95th percentile per-packet one-way delay: 69.306 ms

Loss rate: 1.33%

Run 3: Report of TCP Cubic — Data Link

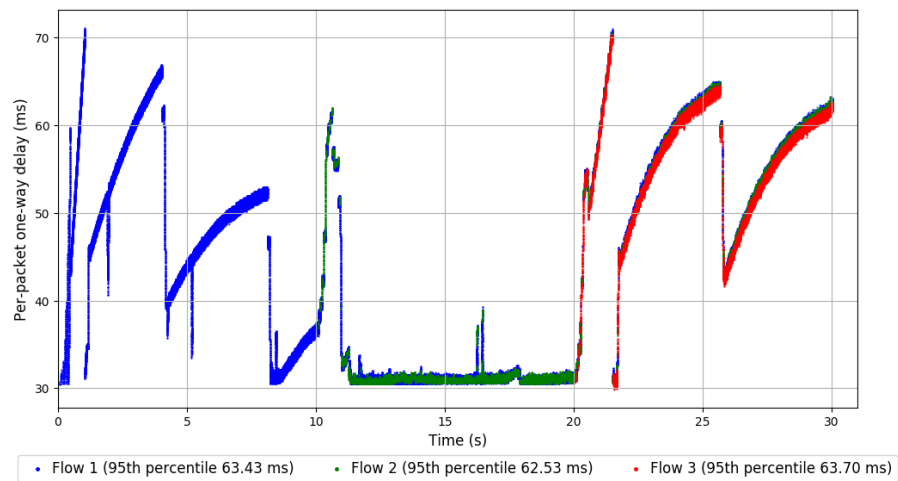
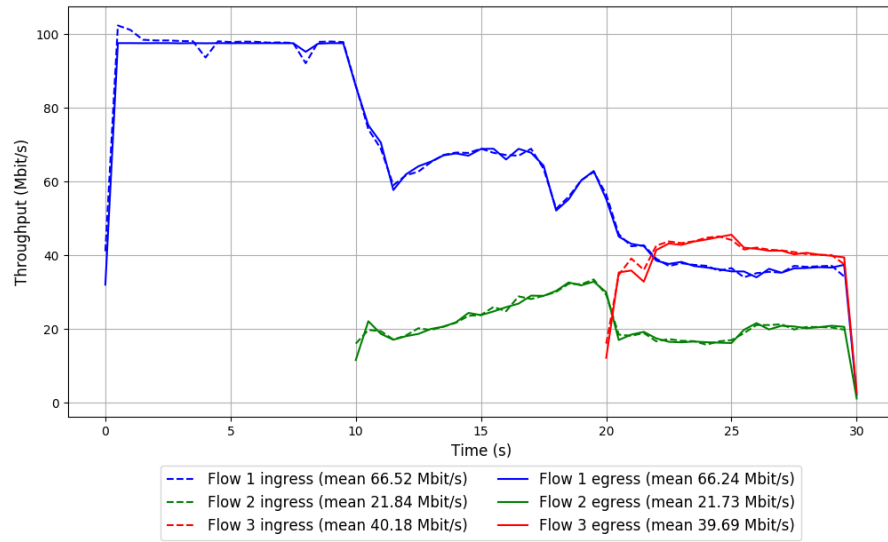


Run 4: Statistics of TCP Cubic

Start at: 2018-01-02 11:51:43
End at: 2018-01-02 11:52:13
Local clock offset: 0.891 ms
Remote clock offset: -0.009 ms

Below is generated by plot.py at 2018-01-02 14:41:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.92 Mbit/s
95th percentile per-packet one-way delay: 63.427 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 66.24 Mbit/s
95th percentile per-packet one-way delay: 63.433 ms
Loss rate: 0.31%
-- Flow 2:
Average throughput: 21.73 Mbit/s
95th percentile per-packet one-way delay: 62.533 ms
Loss rate: 0.36%
-- Flow 3:
Average throughput: 39.69 Mbit/s
95th percentile per-packet one-way delay: 63.695 ms
Loss rate: 0.89%

Run 4: Report of TCP Cubic — Data Link

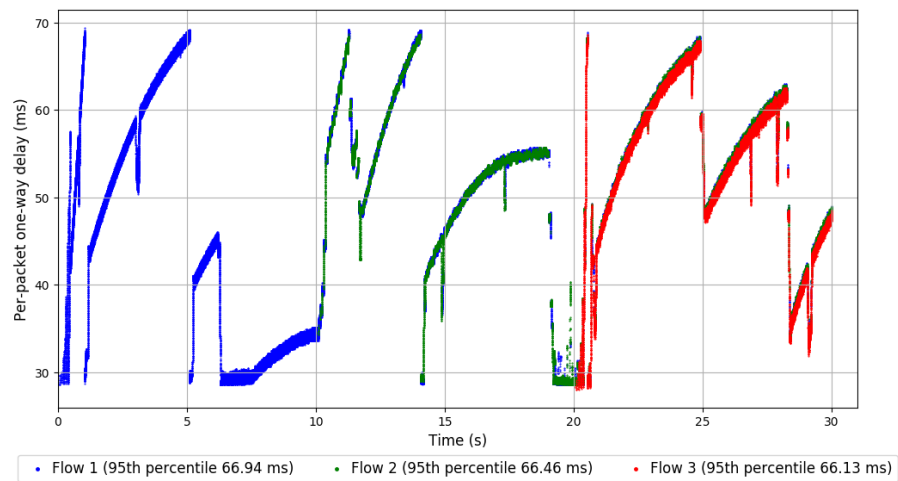
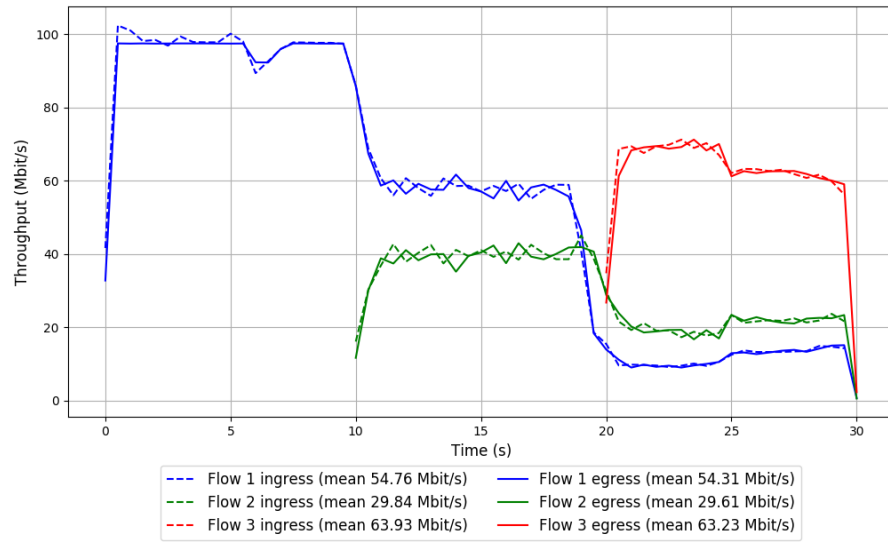


Run 5: Statistics of TCP Cubic

Start at: 2018-01-02 12:12:33
End at: 2018-01-02 12:13:03
Local clock offset: 0.885 ms
Remote clock offset: -2.124 ms

Below is generated by plot.py at 2018-01-02 14:41:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 95.05 Mbit/s
95th percentile per-packet one-way delay: 66.554 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 54.31 Mbit/s
95th percentile per-packet one-way delay: 66.939 ms
Loss rate: 0.74%
-- Flow 2:
Average throughput: 29.61 Mbit/s
95th percentile per-packet one-way delay: 66.459 ms
Loss rate: 0.70%
-- Flow 3:
Average throughput: 63.23 Mbit/s
95th percentile per-packet one-way delay: 66.133 ms
Loss rate: 0.90%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-01-02 12:33:22

End at: 2018-01-02 12:33:52

Local clock offset: 0.764 ms

Remote clock offset: -0.35 ms

Below is generated by plot.py at 2018-01-02 14:41:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.04 Mbit/s

95th percentile per-packet one-way delay: 64.516 ms

Loss rate: 0.54%

-- Flow 1:

Average throughput: 63.41 Mbit/s

95th percentile per-packet one-way delay: 64.509 ms

Loss rate: 0.59%

-- Flow 2:

Average throughput: 19.89 Mbit/s

95th percentile per-packet one-way delay: 66.213 ms

Loss rate: 0.59%

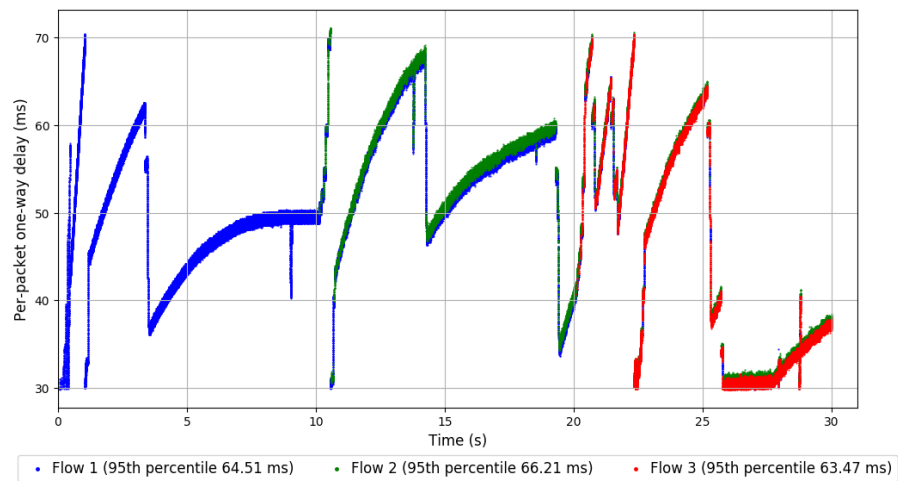
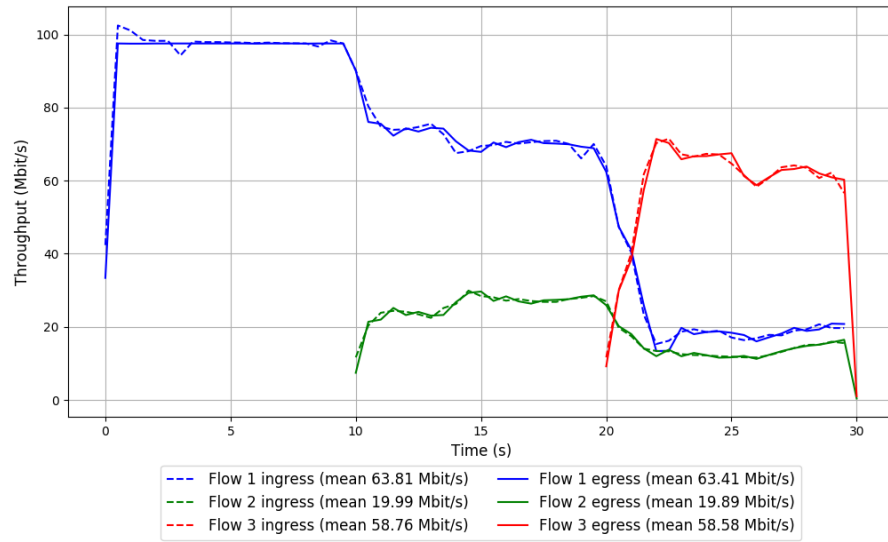
-- Flow 3:

Average throughput: 58.58 Mbit/s

95th percentile per-packet one-way delay: 63.471 ms

Loss rate: 0.34%

Run 6: Report of TCP Cubic — Data Link

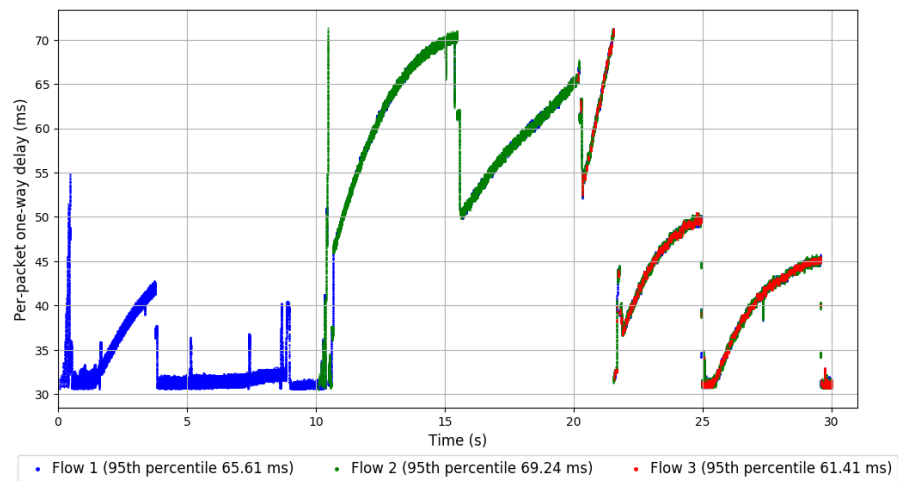
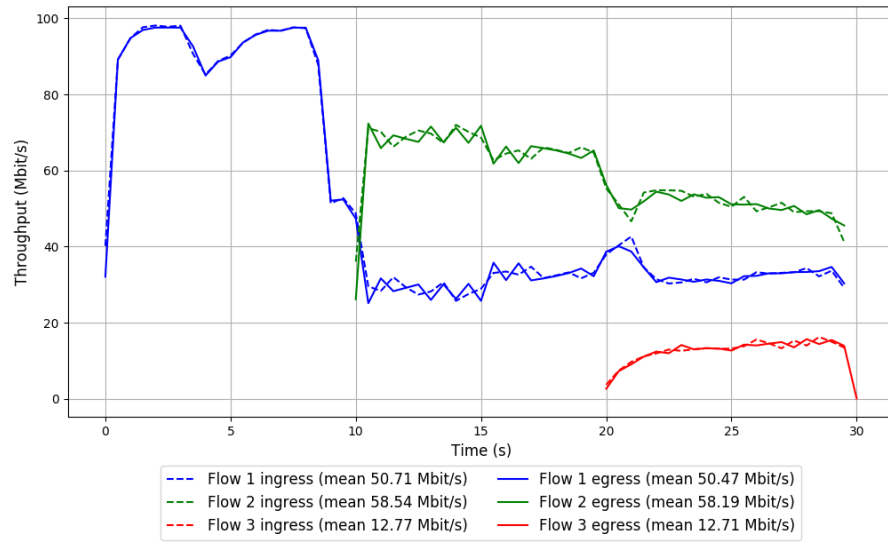


Run 7: Statistics of TCP Cubic

Start at: 2018-01-02 12:54:03
End at: 2018-01-02 12:54:33
Local clock offset: 0.81 ms
Remote clock offset: -0.713 ms

Below is generated by plot.py at 2018-01-02 14:43:11
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.40 Mbit/s
95th percentile per-packet one-way delay: 68.333 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 50.47 Mbit/s
95th percentile per-packet one-way delay: 65.610 ms
Loss rate: 0.48%
-- Flow 2:
Average throughput: 58.19 Mbit/s
95th percentile per-packet one-way delay: 69.242 ms
Loss rate: 0.60%
-- Flow 3:
Average throughput: 12.71 Mbit/s
95th percentile per-packet one-way delay: 61.411 ms
Loss rate: 0.78%

Run 7: Report of TCP Cubic — Data Link

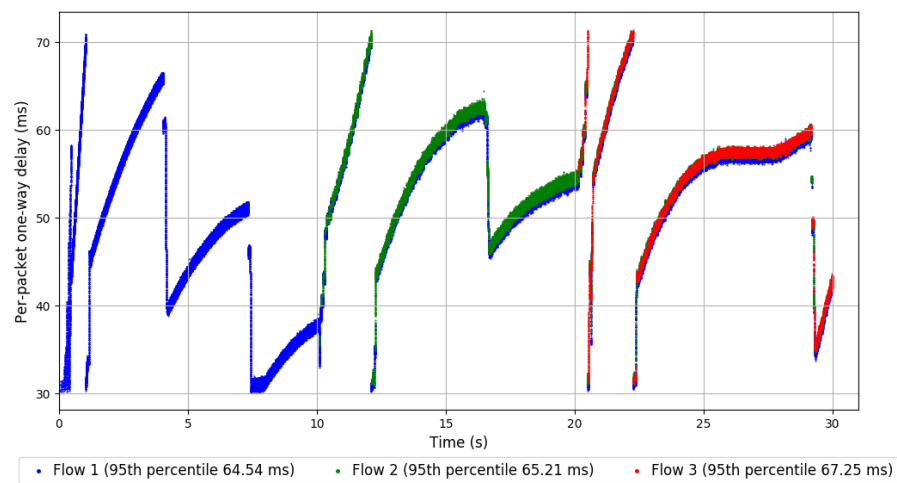
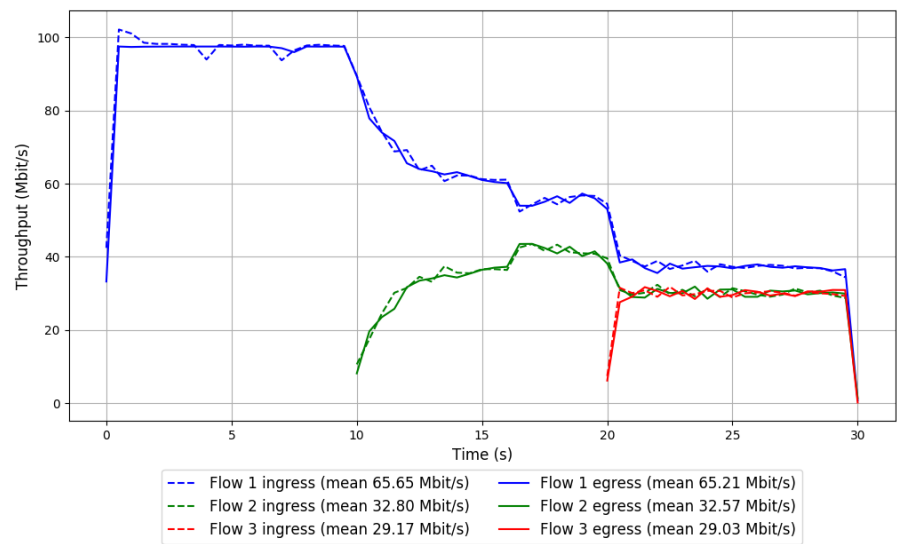


Run 8: Statistics of TCP Cubic

Start at: 2018-01-02 13:14:44
End at: 2018-01-02 13:15:14
Local clock offset: 0.958 ms
Remote clock offset: -0.661 ms

Below is generated by plot.py at 2018-01-02 14:43:14
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.51 Mbit/s
95th percentile per-packet one-way delay: 64.809 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 65.21 Mbit/s
95th percentile per-packet one-way delay: 64.543 ms
Loss rate: 0.63%
-- Flow 2:
Average throughput: 32.57 Mbit/s
95th percentile per-packet one-way delay: 65.211 ms
Loss rate: 0.66%
-- Flow 3:
Average throughput: 29.03 Mbit/s
95th percentile per-packet one-way delay: 67.250 ms
Loss rate: 0.62%

Run 8: Report of TCP Cubic — Data Link

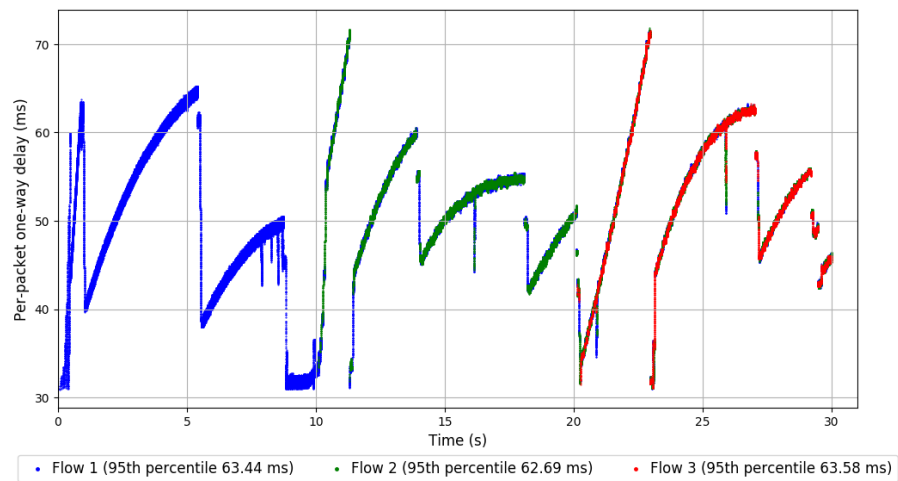
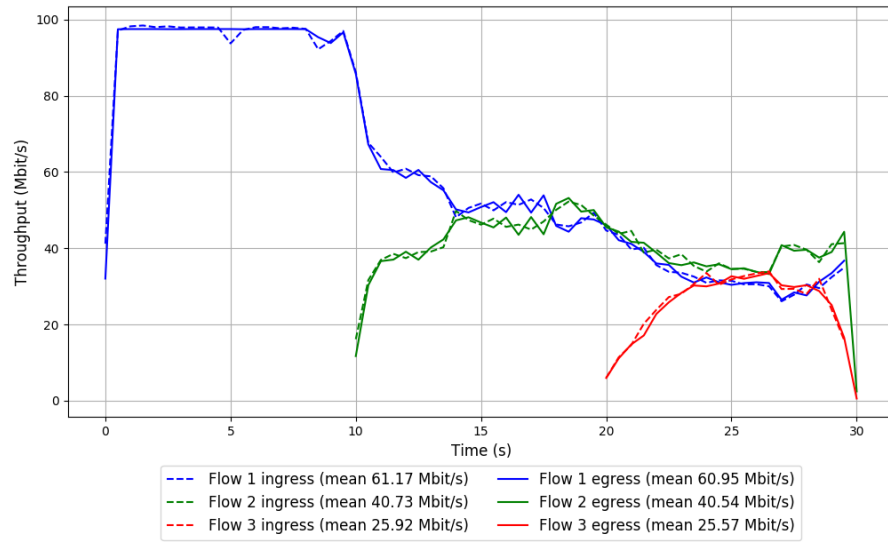


Run 9: Statistics of TCP Cubic

Start at: 2018-01-02 13:35:22
End at: 2018-01-02 13:35:52
Local clock offset: 0.893 ms
Remote clock offset: -0.337 ms

Below is generated by plot.py at 2018-01-02 14:43:15
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.40 Mbit/s
95th percentile per-packet one-way delay: 63.236 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 60.95 Mbit/s
95th percentile per-packet one-way delay: 63.438 ms
Loss rate: 0.31%
-- Flow 2:
Average throughput: 40.54 Mbit/s
95th percentile per-packet one-way delay: 62.692 ms
Loss rate: 0.41%
-- Flow 3:
Average throughput: 25.57 Mbit/s
95th percentile per-packet one-way delay: 63.582 ms
Loss rate: 1.39%

Run 9: Report of TCP Cubic — Data Link

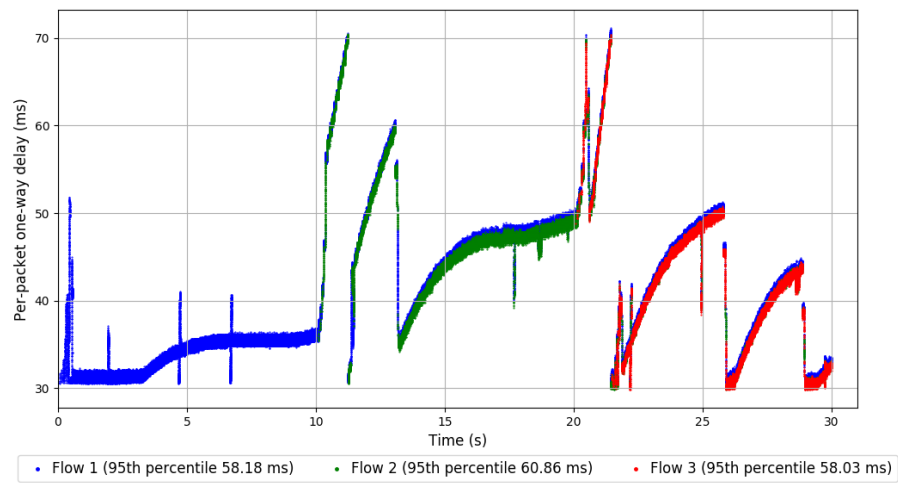
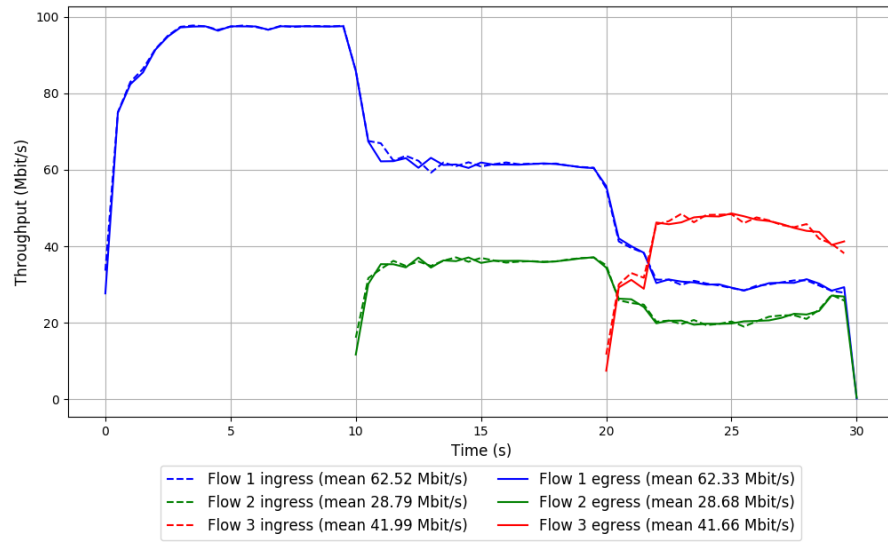


Run 10: Statistics of TCP Cubic

Start at: 2018-01-02 13:56:19
End at: 2018-01-02 13:56:49
Local clock offset: 0.478 ms
Remote clock offset: -0.575 ms

Below is generated by plot.py at 2018-01-02 14:43:15
Datalink statistics
-- Total of 3 flows:
Average throughput: 95.25 Mbit/s
95th percentile per-packet one-way delay: 59.036 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 62.33 Mbit/s
95th percentile per-packet one-way delay: 58.176 ms
Loss rate: 0.29%
-- Flow 2:
Average throughput: 28.68 Mbit/s
95th percentile per-packet one-way delay: 60.862 ms
Loss rate: 0.40%
-- Flow 3:
Average throughput: 41.66 Mbit/s
95th percentile per-packet one-way delay: 58.033 ms
Loss rate: 0.93%

Run 10: Report of TCP Cubic — Data Link

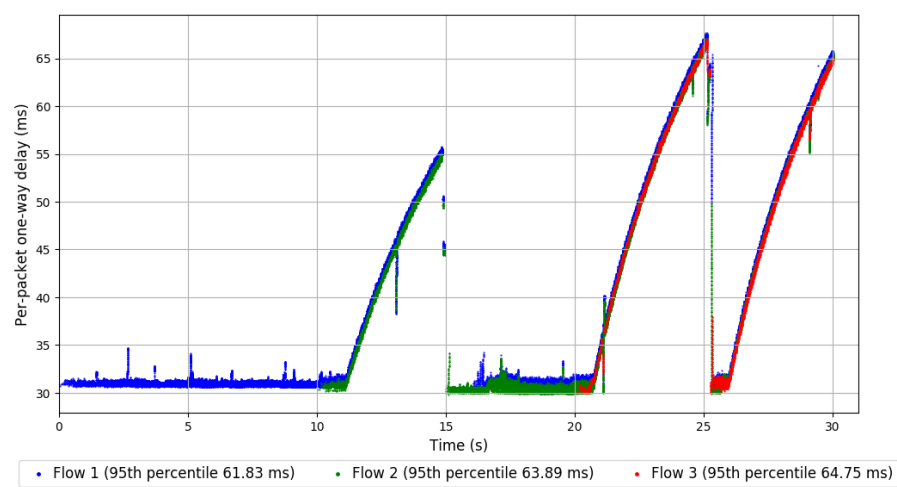
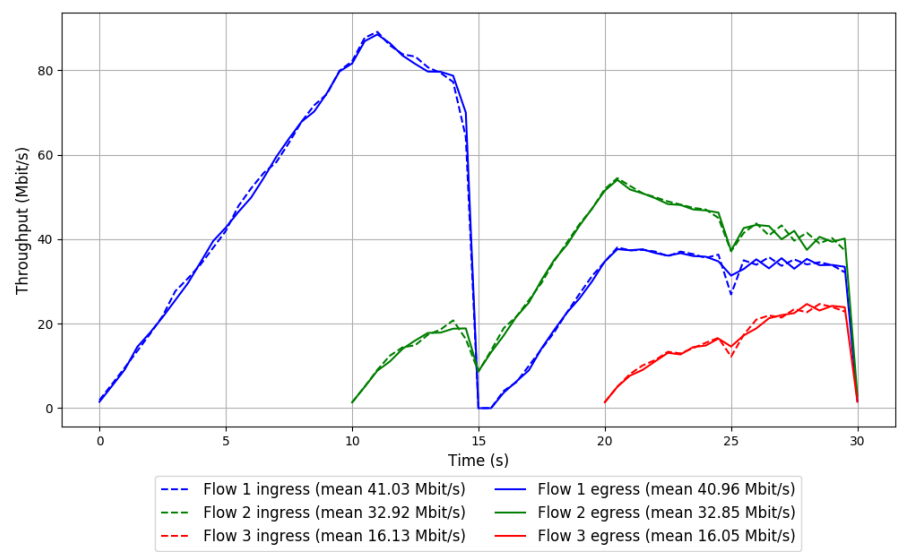


```
Run 1: Statistics of LEDBAT

Start at: 2018-01-02 11:04:09
End at: 2018-01-02 11:04:39
Local clock offset: 0.805 ms
Remote clock offset: 0.266 ms

# Below is generated by plot.py at 2018-01-02 14:43:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 68.15 Mbit/s
95th percentile per-packet one-way delay: 63.346 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 40.96 Mbit/s
95th percentile per-packet one-way delay: 61.832 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 32.85 Mbit/s
95th percentile per-packet one-way delay: 63.891 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 16.05 Mbit/s
95th percentile per-packet one-way delay: 64.753 ms
Loss rate: 0.15%
```

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2018-01-02 11:24:51

End at: 2018-01-02 11:25:21

Local clock offset: 0.985 ms

Remote clock offset: 0.442 ms

Below is generated by plot.py at 2018-01-02 14:43:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 74.17 Mbit/s

95th percentile per-packet one-way delay: 67.043 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 40.20 Mbit/s

95th percentile per-packet one-way delay: 66.758 ms

Loss rate: 0.15%

-- Flow 2:

Average throughput: 39.26 Mbit/s

95th percentile per-packet one-way delay: 67.509 ms

Loss rate: 0.04%

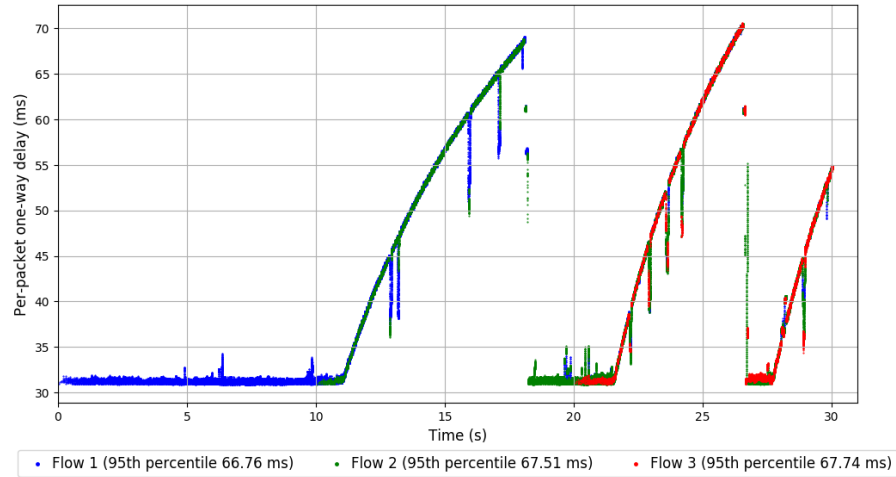
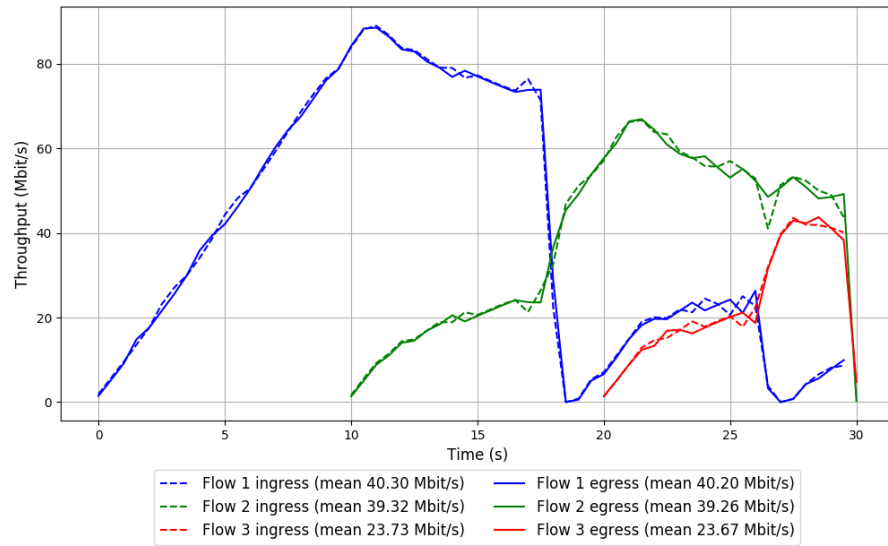
-- Flow 3:

Average throughput: 23.67 Mbit/s

95th percentile per-packet one-way delay: 67.743 ms

Loss rate: 0.00%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-01-02 11:45:57

End at: 2018-01-02 11:46:27

Local clock offset: 0.99 ms

Remote clock offset: 0.071 ms

Below is generated by plot.py at 2018-01-02 14:43:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 73.24 Mbit/s

95th percentile per-packet one-way delay: 59.028 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 37.50 Mbit/s

95th percentile per-packet one-way delay: 58.394 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 42.59 Mbit/s

95th percentile per-packet one-way delay: 59.311 ms

Loss rate: 0.01%

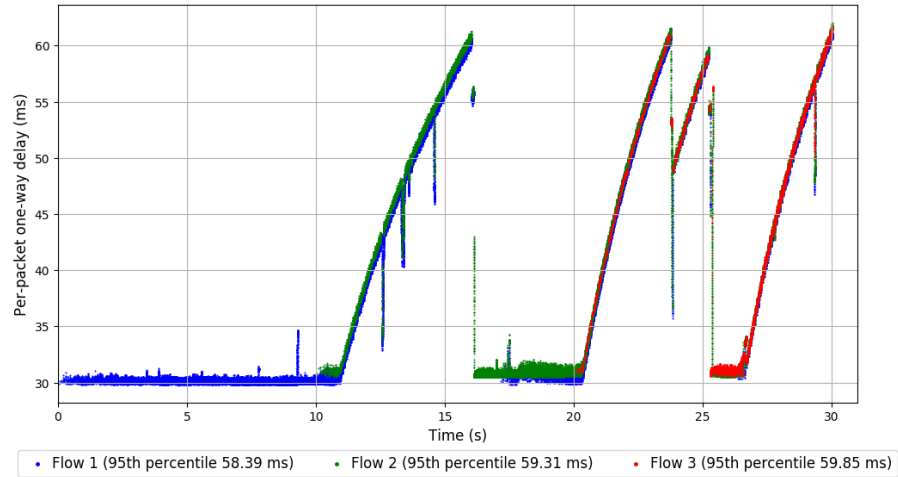
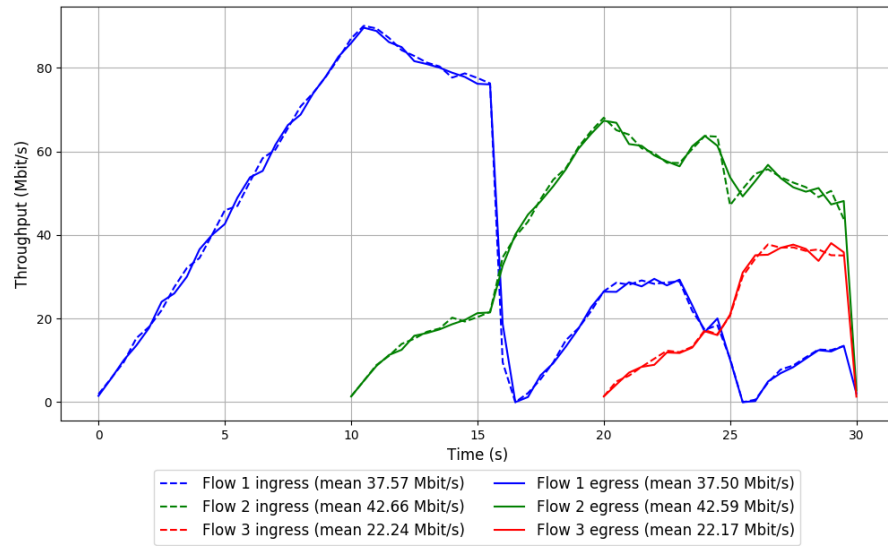
-- Flow 3:

Average throughput: 22.17 Mbit/s

95th percentile per-packet one-way delay: 59.847 ms

Loss rate: 0.00%

Run 3: Report of LEDBAT — Data Link

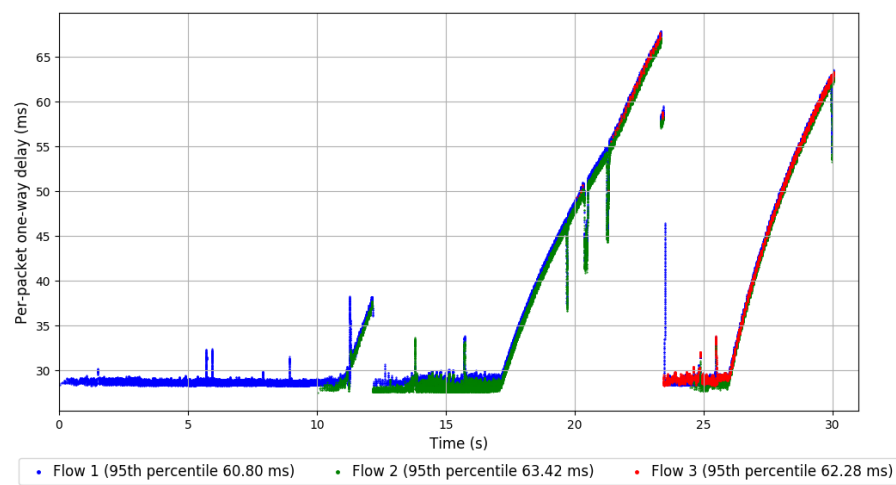
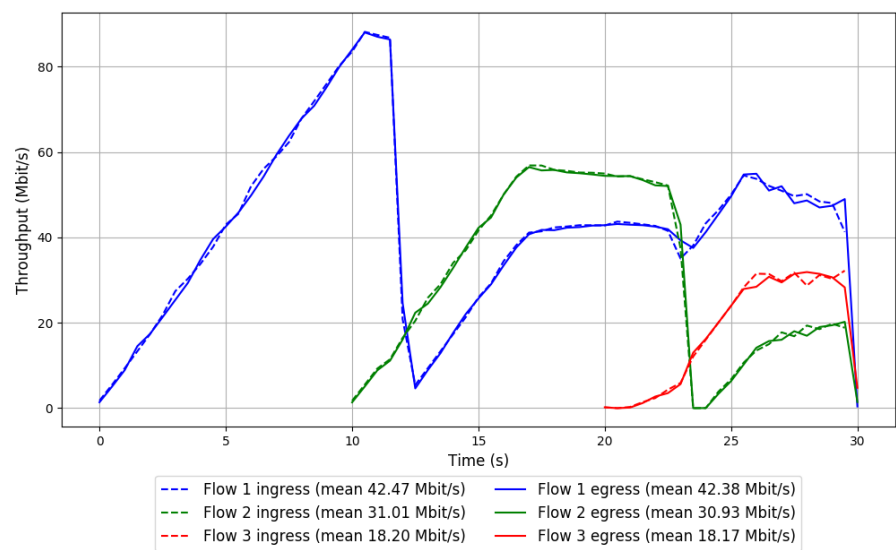


Run 4: Statistics of LEDBAT

Start at: 2018-01-02 12:06:50
End at: 2018-01-02 12:07:20
Local clock offset: 1.034 ms
Remote clock offset: -2.175 ms

Below is generated by plot.py at 2018-01-02 14:43:15
Datalink statistics
-- Total of 3 flows:
Average throughput: 69.01 Mbit/s
95th percentile per-packet one-way delay: 61.806 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 42.38 Mbit/s
95th percentile per-packet one-way delay: 60.795 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 30.93 Mbit/s
95th percentile per-packet one-way delay: 63.418 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 18.17 Mbit/s
95th percentile per-packet one-way delay: 62.279 ms
Loss rate: 0.00%

Run 4: Report of LEDBAT — Data Link

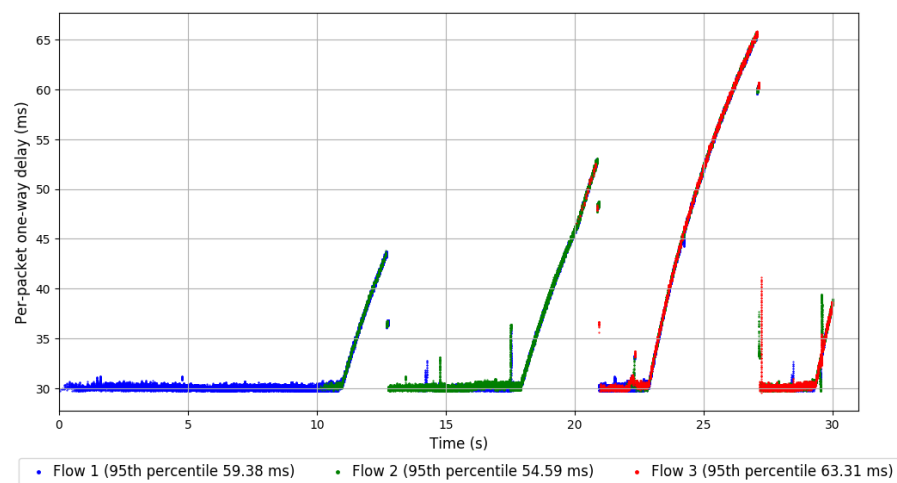
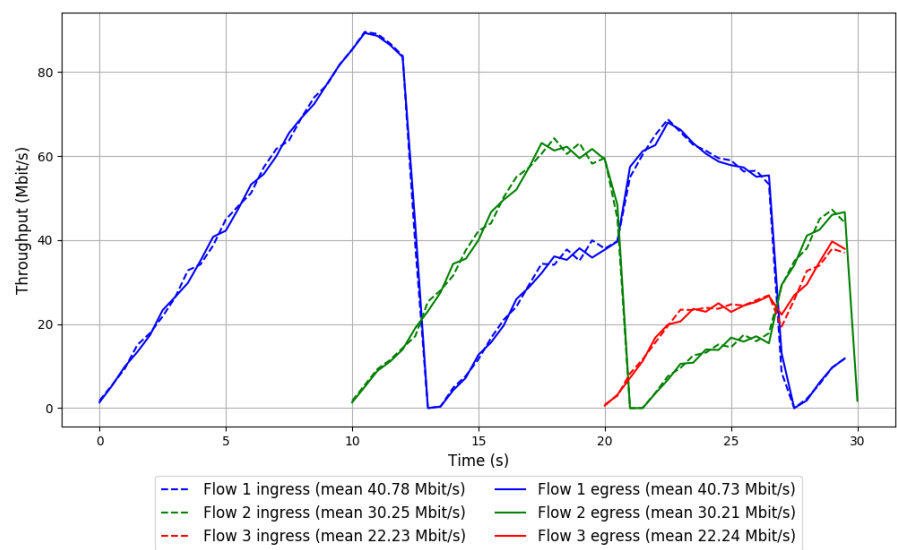


Run 5: Statistics of LEDBAT

Start at: 2018-01-02 12:27:48
End at: 2018-01-02 12:28:18
Local clock offset: 0.883 ms
Remote clock offset: -0.338 ms

Below is generated by plot.py at 2018-01-02 14:43:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 68.15 Mbit/s
95th percentile per-packet one-way delay: 59.834 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 40.73 Mbit/s
95th percentile per-packet one-way delay: 59.377 ms
Loss rate: 0.09%
-- Flow 2:
Average throughput: 30.21 Mbit/s
95th percentile per-packet one-way delay: 54.590 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 22.24 Mbit/s
95th percentile per-packet one-way delay: 63.310 ms
Loss rate: 0.07%

Run 5: Report of LEDBAT — Data Link

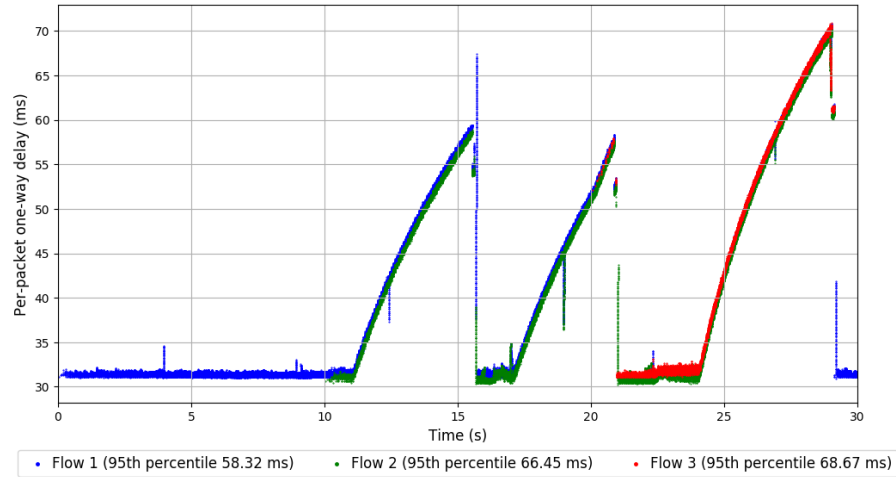
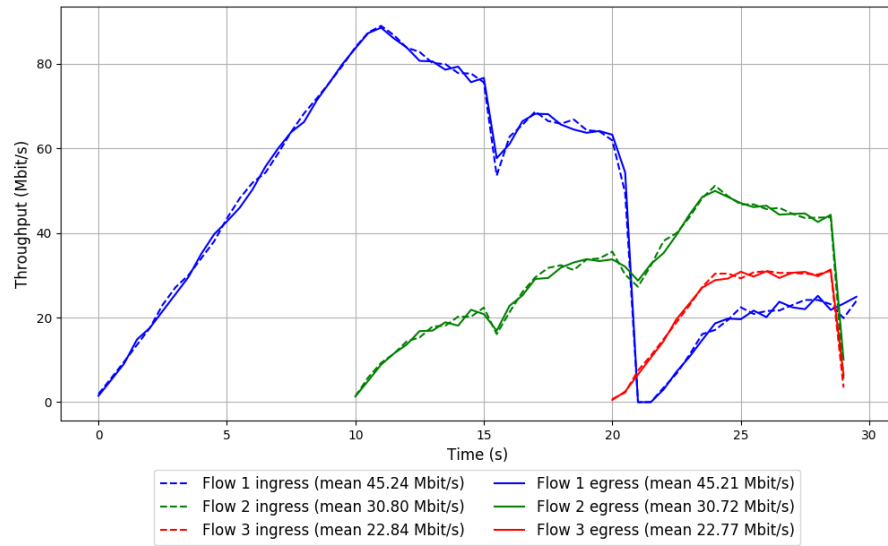


Run 6: Statistics of LEDBAT

Start at: 2018-01-02 12:48:29
End at: 2018-01-02 12:48:59
Local clock offset: 0.876 ms
Remote clock offset: -0.004 ms

Below is generated by plot.py at 2018-01-02 14:44:05
Datalink statistics
-- Total of 3 flows:
Average throughput: 71.67 Mbit/s
95th percentile per-packet one-way delay: 64.510 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 45.21 Mbit/s
95th percentile per-packet one-way delay: 58.323 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 30.72 Mbit/s
95th percentile per-packet one-way delay: 66.450 ms
Loss rate: 0.11%
-- Flow 3:
Average throughput: 22.77 Mbit/s
95th percentile per-packet one-way delay: 68.673 ms
Loss rate: 0.22%

Run 6: Report of LEDBAT — Data Link

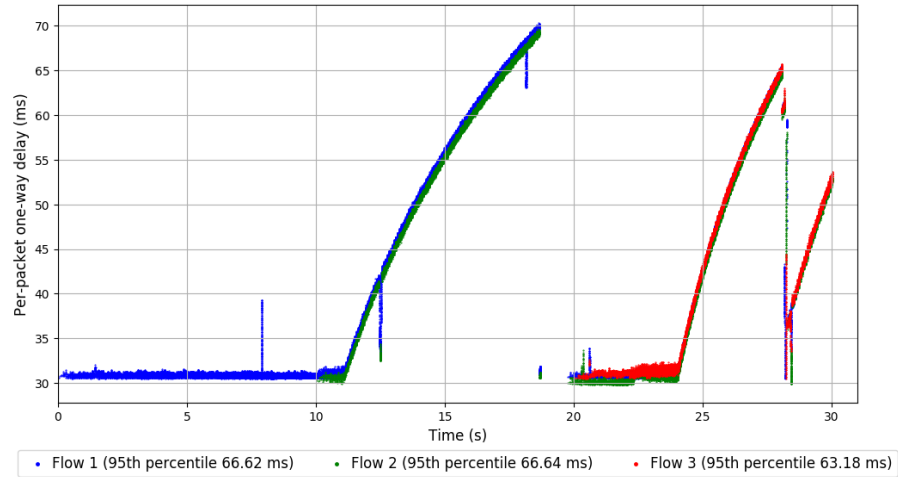
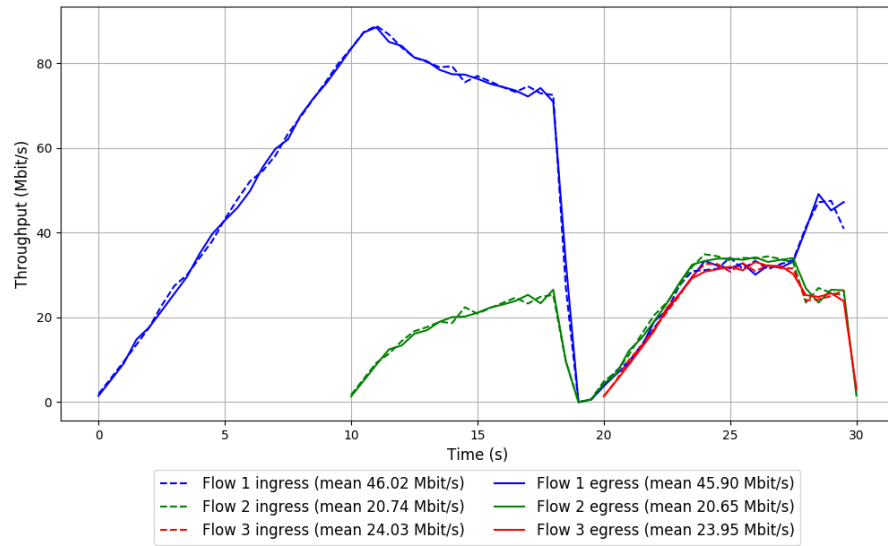


Run 7: Statistics of LEDBAT

Start at: 2018-01-02 13:09:10
End at: 2018-01-02 13:09:40
Local clock offset: 0.96 ms
Remote clock offset: -1.032 ms

Below is generated by plot.py at 2018-01-02 14:44:05
Datalink statistics
-- Total of 3 flows:
Average throughput: 67.58 Mbit/s
95th percentile per-packet one-way delay: 66.162 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 45.90 Mbit/s
95th percentile per-packet one-way delay: 66.616 ms
Loss rate: 0.19%
-- Flow 2:
Average throughput: 20.65 Mbit/s
95th percentile per-packet one-way delay: 66.635 ms
Loss rate: 0.34%
-- Flow 3:
Average throughput: 23.95 Mbit/s
95th percentile per-packet one-way delay: 63.183 ms
Loss rate: 0.11%

Run 7: Report of LEDBAT — Data Link

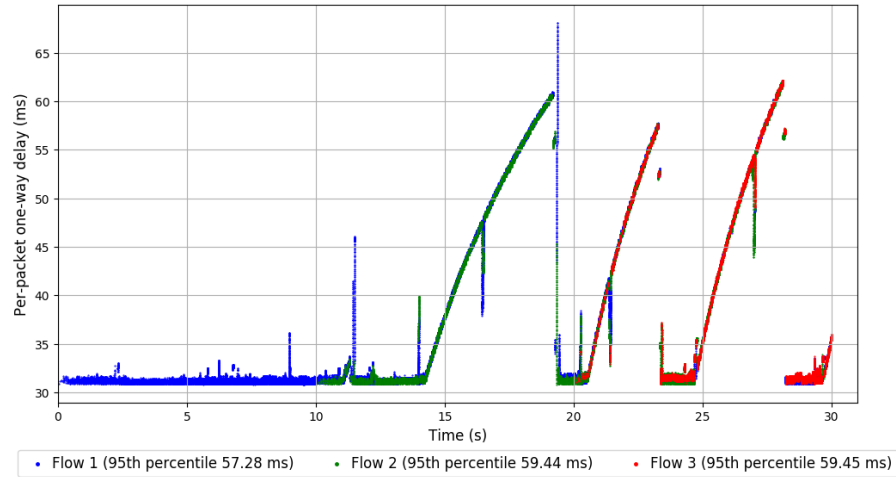
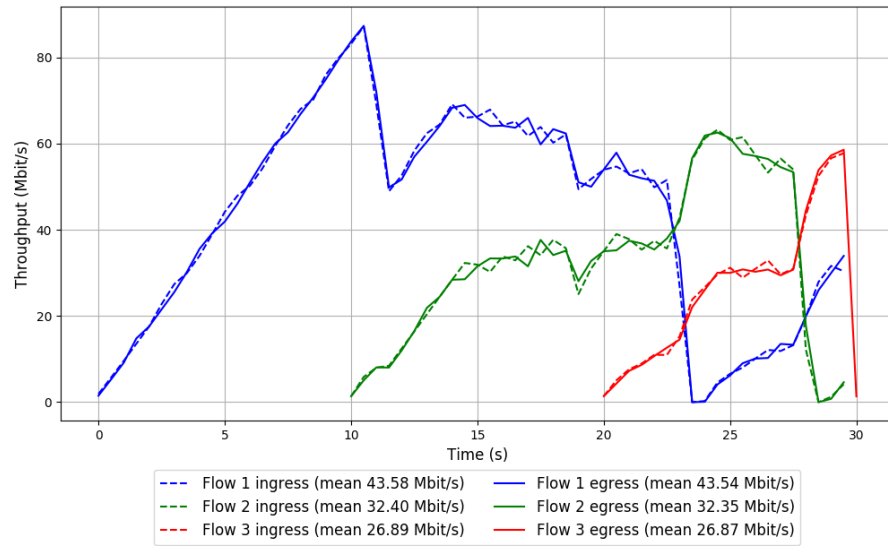


Run 8: Statistics of LEDBAT

Start at: 2018-01-02 13:29:45
End at: 2018-01-02 13:30:15
Local clock offset: 0.902 ms
Remote clock offset: -0.534 ms

Below is generated by plot.py at 2018-01-02 14:44:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 73.94 Mbit/s
95th percentile per-packet one-way delay: 58.450 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 43.54 Mbit/s
95th percentile per-packet one-way delay: 57.278 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 32.35 Mbit/s
95th percentile per-packet one-way delay: 59.444 ms
Loss rate: 0.12%
-- Flow 3:
Average throughput: 26.87 Mbit/s
95th percentile per-packet one-way delay: 59.447 ms
Loss rate: 0.00%

Run 8: Report of LEDBAT — Data Link

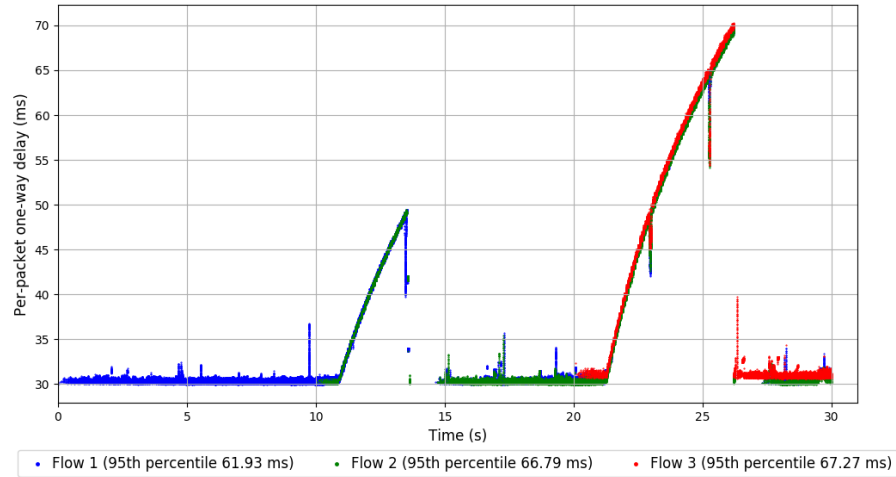
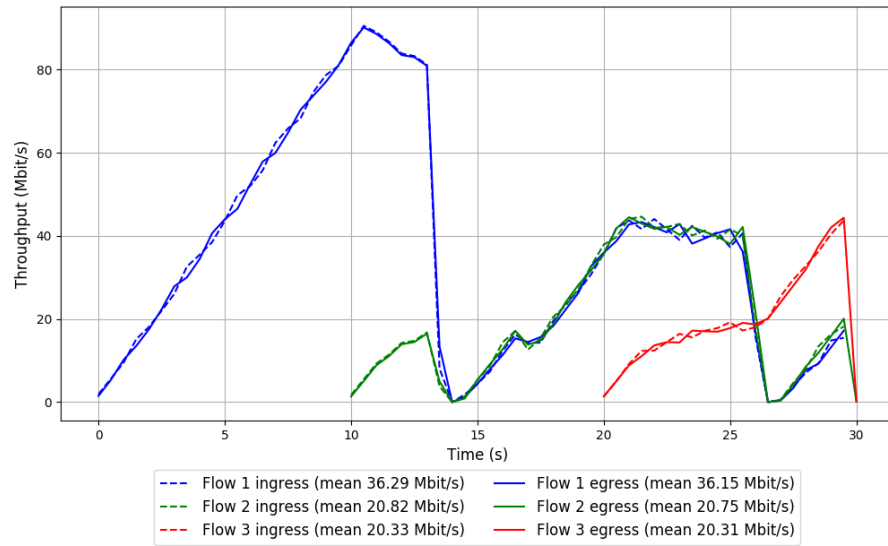


Run 9: Statistics of LEDBAT

Start at: 2018-01-02 13:50:30
End at: 2018-01-02 13:51:00
Local clock offset: 0.544 ms
Remote clock offset: -0.538 ms

Below is generated by plot.py at 2018-01-02 14:44:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 56.68 Mbit/s
95th percentile per-packet one-way delay: 65.006 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 36.15 Mbit/s
95th percentile per-packet one-way delay: 61.927 ms
Loss rate: 0.37%
-- Flow 2:
Average throughput: 20.75 Mbit/s
95th percentile per-packet one-way delay: 66.790 ms
Loss rate: 0.34%
-- Flow 3:
Average throughput: 20.31 Mbit/s
95th percentile per-packet one-way delay: 67.268 ms
Loss rate: 0.15%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-01-02 14:11:46

End at: 2018-01-02 14:12:16

Local clock offset: 0.495 ms

Remote clock offset: -0.68 ms

Below is generated by plot.py at 2018-01-02 14:44:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 61.60 Mbit/s

95th percentile per-packet one-way delay: 59.621 ms

Loss rate: 0.16%

-- Flow 1:

Average throughput: 38.03 Mbit/s

95th percentile per-packet one-way delay: 59.138 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 25.13 Mbit/s

95th percentile per-packet one-way delay: 60.693 ms

Loss rate: 0.17%

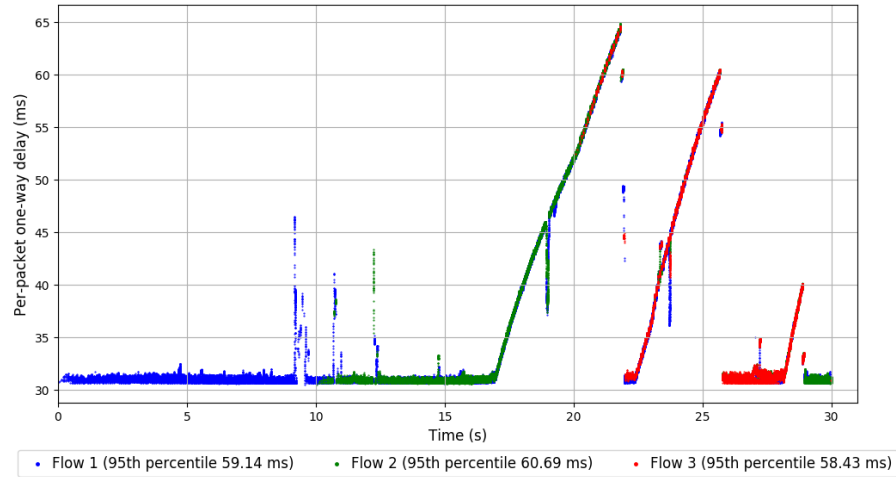
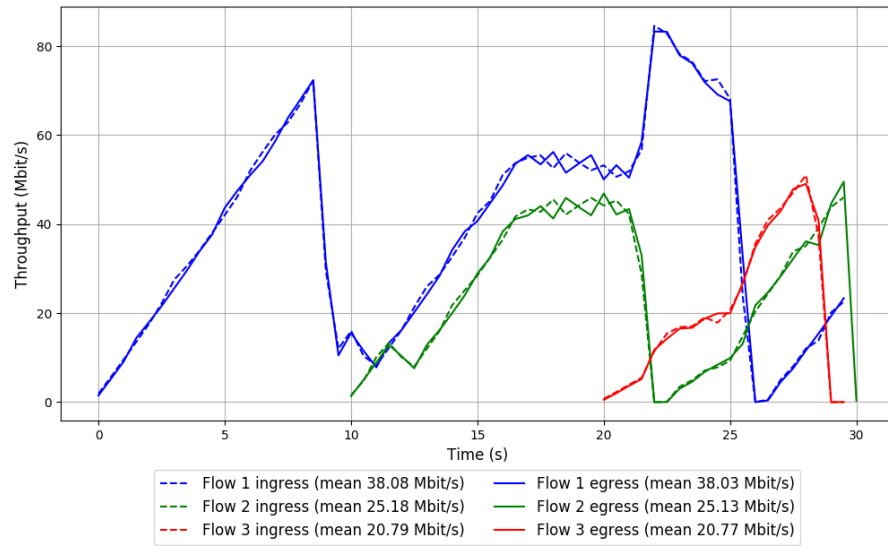
-- Flow 3:

Average throughput: 20.77 Mbit/s

95th percentile per-packet one-way delay: 58.430 ms

Loss rate: 0.34%

Run 10: Report of LEDBAT — Data Link

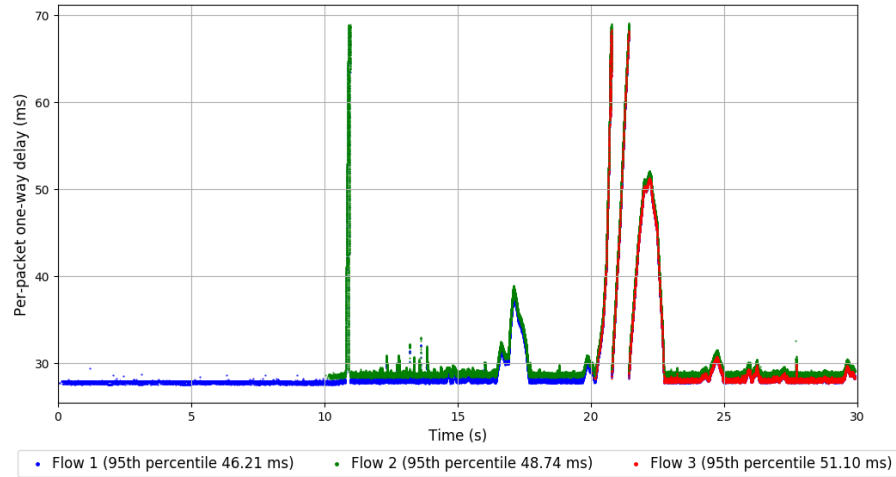
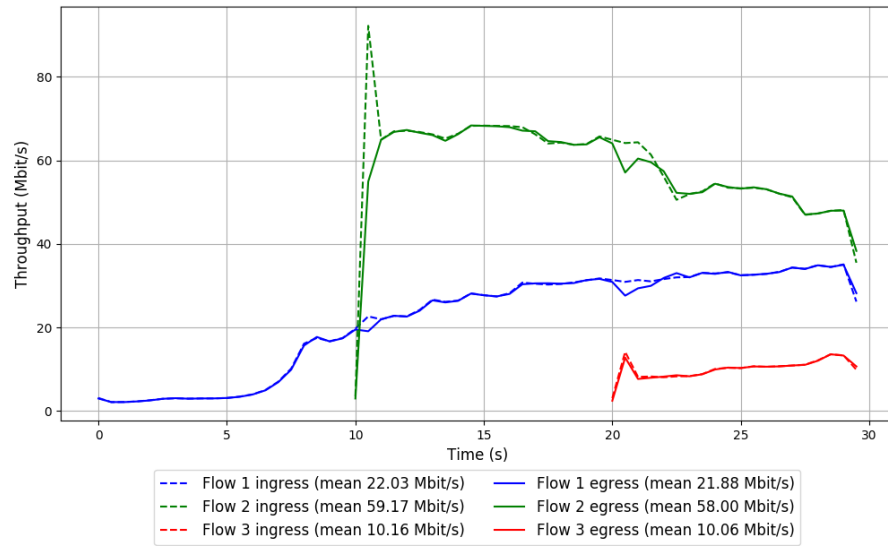


```
Run 1: Statistics of PCC

Start at: 2018-01-02 10:57:05
End at: 2018-01-02 10:57:35
Local clock offset: 0.748 ms
Remote clock offset: -1.688 ms

# Below is generated by plot.py at 2018-01-02 14:44:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 63.76 Mbit/s
95th percentile per-packet one-way delay: 48.285 ms
Loss rate: 1.50%
-- Flow 1:
Average throughput: 21.88 Mbit/s
95th percentile per-packet one-way delay: 46.207 ms
Loss rate: 0.72%
-- Flow 2:
Average throughput: 58.00 Mbit/s
95th percentile per-packet one-way delay: 48.744 ms
Loss rate: 1.98%
-- Flow 3:
Average throughput: 10.06 Mbit/s
95th percentile per-packet one-way delay: 51.098 ms
Loss rate: 0.97%
```

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2018-01-02 11:17:58

End at: 2018-01-02 11:18:28

Local clock offset: 0.949 ms

Remote clock offset: -2.06 ms

Below is generated by plot.py at 2018-01-02 14:44:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.56 Mbit/s

95th percentile per-packet one-way delay: 63.296 ms

Loss rate: 2.26%

-- Flow 1:

Average throughput: 83.99 Mbit/s

95th percentile per-packet one-way delay: 63.240 ms

Loss rate: 2.21%

-- Flow 2:

Average throughput: 8.87 Mbit/s

95th percentile per-packet one-way delay: 63.908 ms

Loss rate: 2.74%

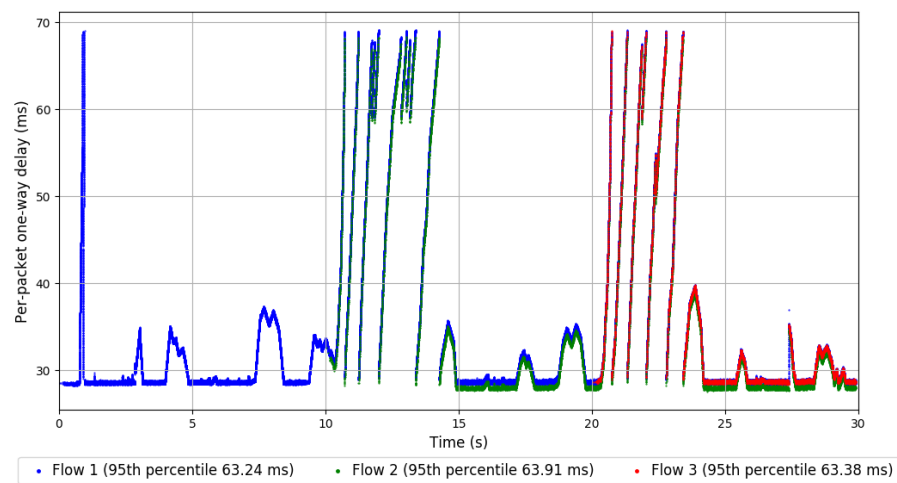
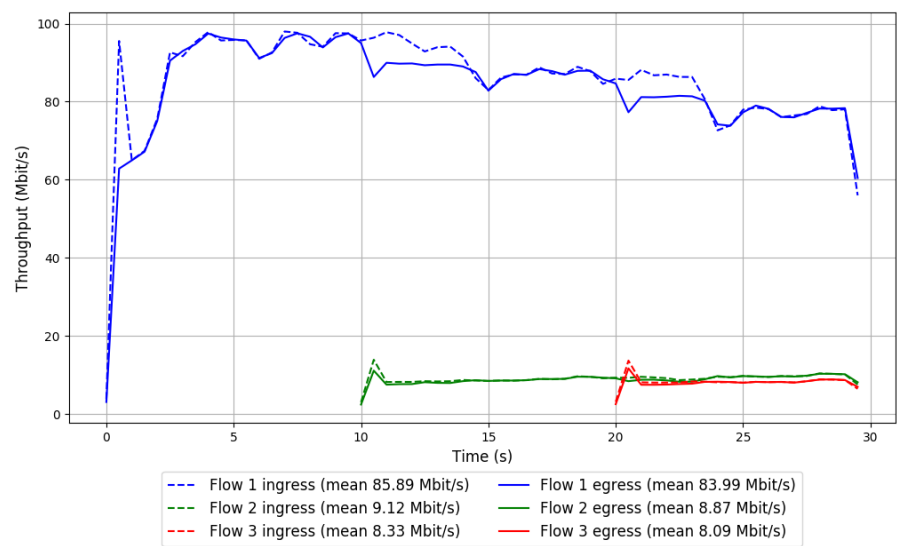
-- Flow 3:

Average throughput: 8.09 Mbit/s

95th percentile per-packet one-way delay: 63.380 ms

Loss rate: 2.87%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2018-01-02 11:38:57

End at: 2018-01-02 11:39:27

Local clock offset: 0.926 ms

Remote clock offset: 0.108 ms

Below is generated by plot.py at 2018-01-02 14:45:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 90.88 Mbit/s

95th percentile per-packet one-way delay: 62.682 ms

Loss rate: 2.17%

-- Flow 1:

Average throughput: 77.16 Mbit/s

95th percentile per-packet one-way delay: 62.213 ms

Loss rate: 2.12%

-- Flow 2:

Average throughput: 16.68 Mbit/s

95th percentile per-packet one-way delay: 65.103 ms

Loss rate: 2.56%

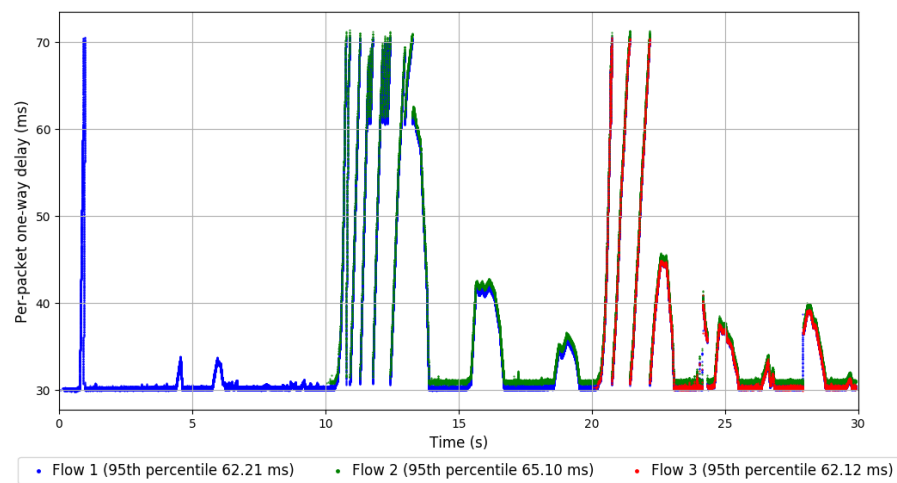
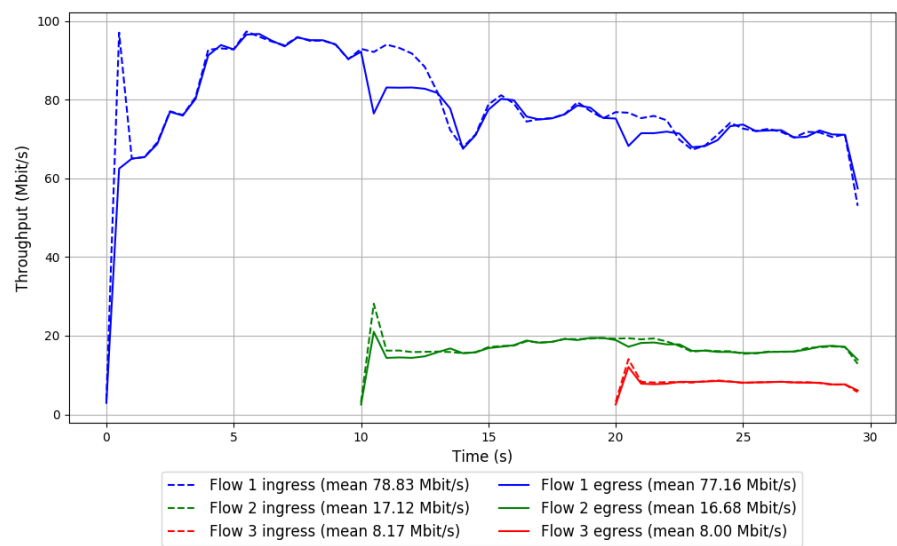
-- Flow 3:

Average throughput: 8.00 Mbit/s

95th percentile per-packet one-way delay: 62.125 ms

Loss rate: 2.11%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2018-01-02 11:59:51

End at: 2018-01-02 12:00:21

Local clock offset: 0.915 ms

Remote clock offset: 0.025 ms

Below is generated by plot.py at 2018-01-02 14:45:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.19 Mbit/s

95th percentile per-packet one-way delay: 65.756 ms

Loss rate: 2.53%

-- Flow 1:

Average throughput: 78.48 Mbit/s

95th percentile per-packet one-way delay: 65.448 ms

Loss rate: 2.38%

-- Flow 2:

Average throughput: 12.29 Mbit/s

95th percentile per-packet one-way delay: 66.410 ms

Loss rate: 2.61%

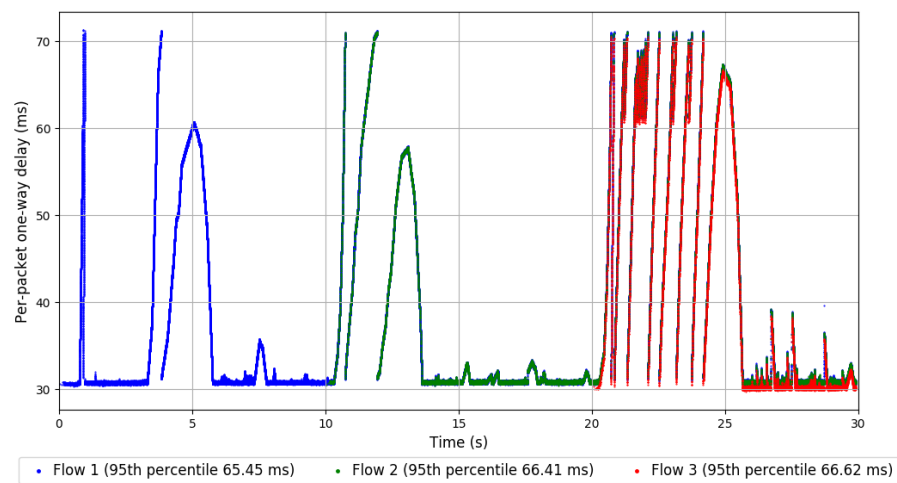
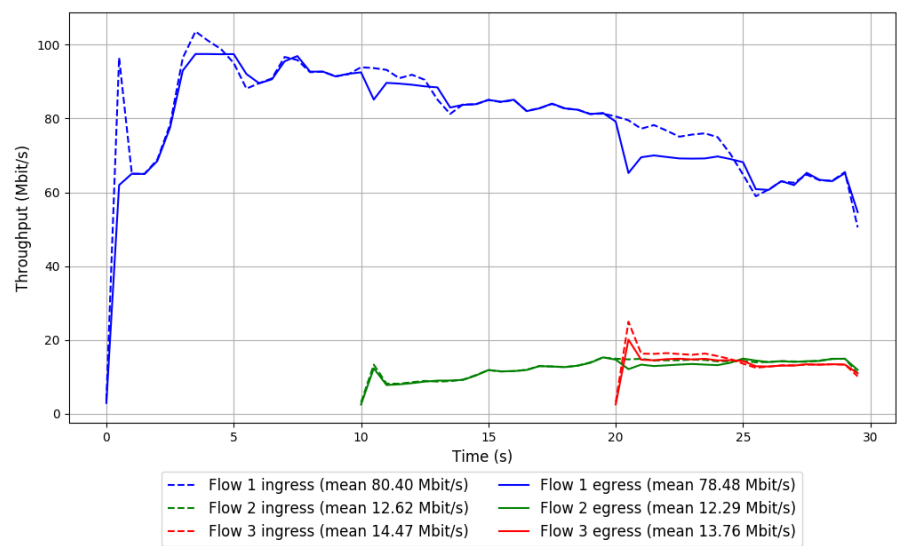
-- Flow 3:

Average throughput: 13.76 Mbit/s

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

Loss rate: 4.91%

Run 4: Report of PCC — Data Link

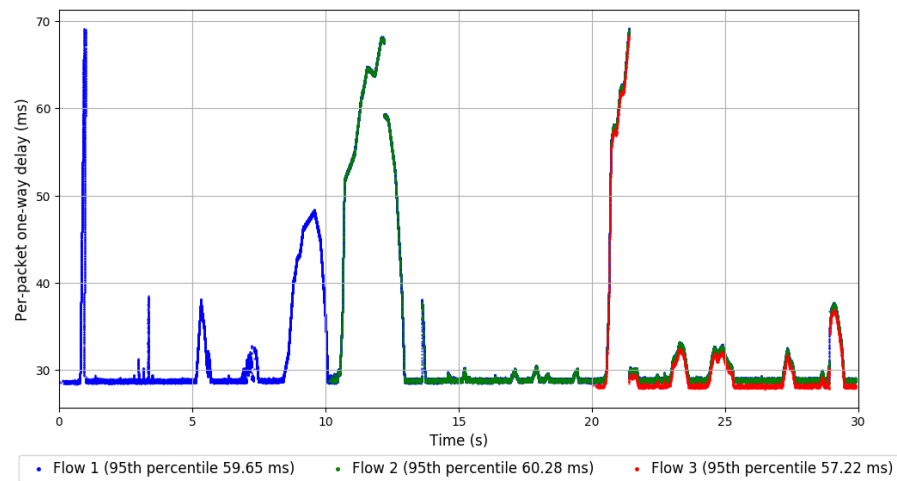
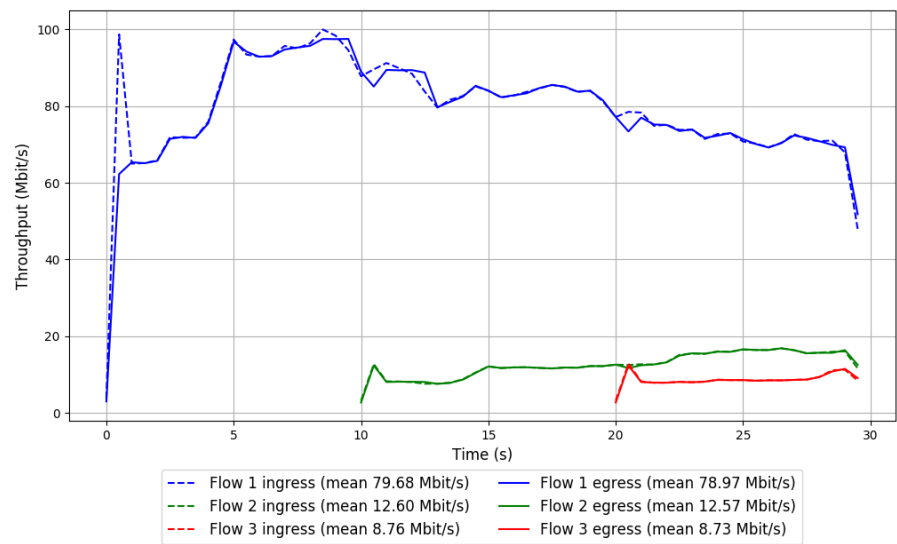


Run 5: Statistics of PCC

Start at: 2018-01-02 12:20:48
End at: 2018-01-02 12:21:18
Local clock offset: 0.793 ms
Remote clock offset: -2.233 ms

Below is generated by plot.py at 2018-01-02 14:45:32
Datalink statistics
-- Total of 3 flows:
Average throughput: 90.20 Mbit/s
95th percentile per-packet one-way delay: 59.530 ms
Loss rate: 0.81%
-- Flow 1:
Average throughput: 78.97 Mbit/s
95th percentile per-packet one-way delay: 59.645 ms
Loss rate: 0.88%
-- Flow 2:
Average throughput: 12.57 Mbit/s
95th percentile per-packet one-way delay: 60.277 ms
Loss rate: 0.23%
-- Flow 3:
Average throughput: 8.73 Mbit/s
95th percentile per-packet one-way delay: 57.217 ms
Loss rate: 0.38%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2018-01-02 12:41:40

End at: 2018-01-02 12:42:10

Local clock offset: 0.869 ms

Remote clock offset: 0.141 ms

Below is generated by plot.py at 2018-01-02 14:45:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.95 Mbit/s

95th percentile per-packet one-way delay: 54.749 ms

Loss rate: 1.10%

-- Flow 1:

Average throughput: 81.18 Mbit/s

95th percentile per-packet one-way delay: 54.798 ms

Loss rate: 1.14%

-- Flow 2:

Average throughput: 11.48 Mbit/s

95th percentile per-packet one-way delay: 54.990 ms

Loss rate: 0.63%

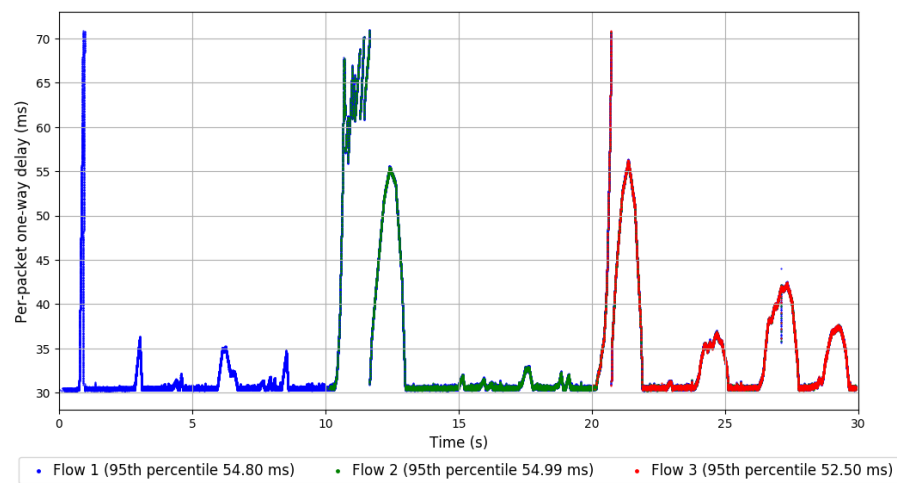
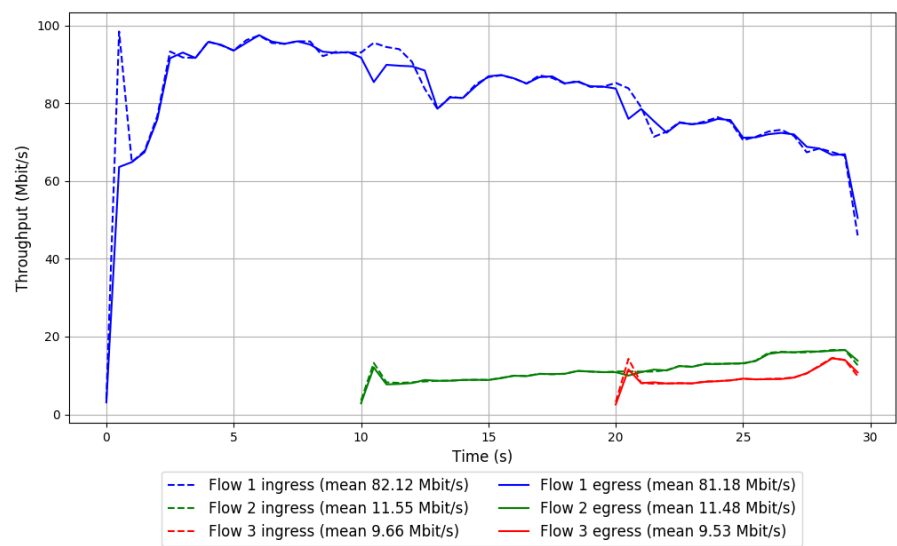
-- Flow 3:

Average throughput: 9.53 Mbit/s

95th percentile per-packet one-way delay: 52.503 ms

Loss rate: 1.36%

Run 6: Report of PCC — Data Link

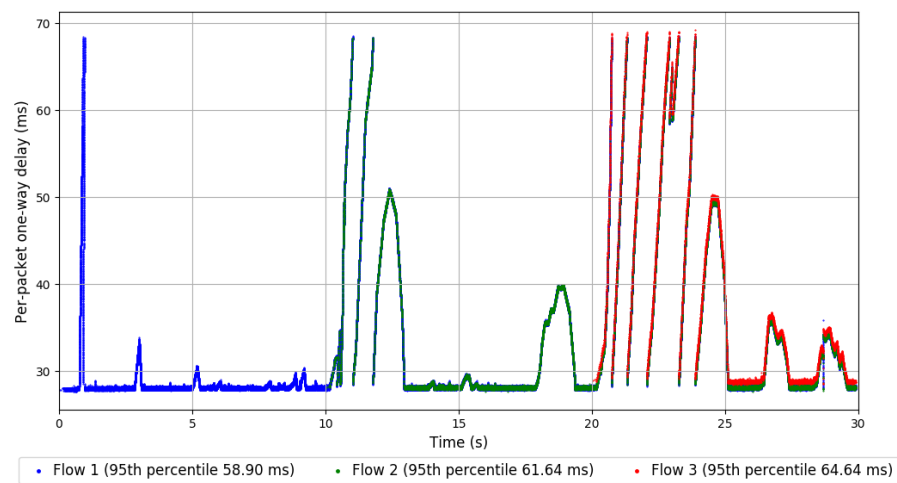
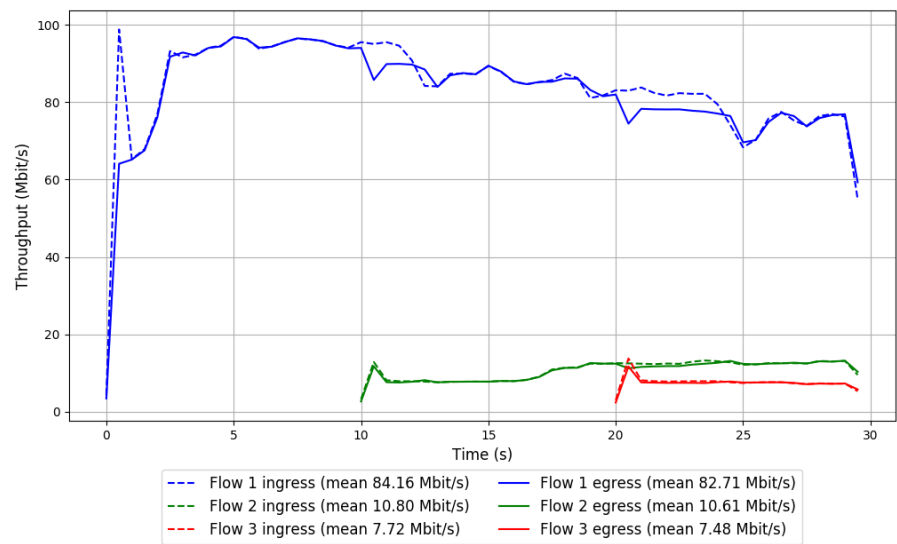


Run 7: Statistics of PCC

Start at: 2018-01-02 13:02:12
End at: 2018-01-02 13:02:42
Local clock offset: 0.952 ms
Remote clock offset: -2.987 ms

Below is generated by plot.py at 2018-01-02 14:45:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 92.24 Mbit/s
95th percentile per-packet one-way delay: 59.501 ms
Loss rate: 1.76%
-- Flow 1:
Average throughput: 82.71 Mbit/s
95th percentile per-packet one-way delay: 58.897 ms
Loss rate: 1.72%
-- Flow 2:
Average throughput: 10.61 Mbit/s
95th percentile per-packet one-way delay: 61.641 ms
Loss rate: 1.72%
-- Flow 3:
Average throughput: 7.48 Mbit/s
95th percentile per-packet one-way delay: 64.640 ms
Loss rate: 3.08%

Run 7: Report of PCC — Data Link

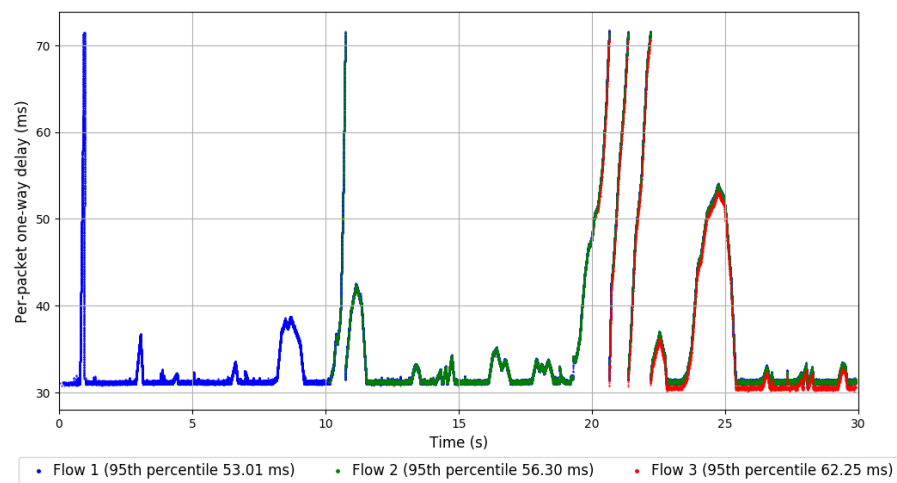
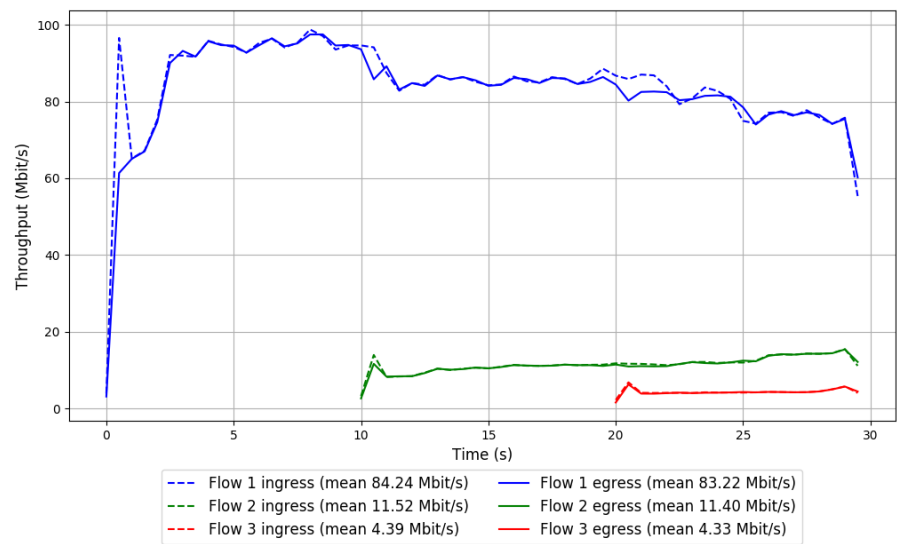


Run 8: Statistics of PCC

Start at: 2018-01-02 13:22:54
End at: 2018-01-02 13:23:24
Local clock offset: 0.853 ms
Remote clock offset: -0.626 ms

Below is generated by plot.py at 2018-01-02 14:45:40
Datalink statistics
-- Total of 3 flows:
Average throughput: 92.22 Mbit/s
95th percentile per-packet one-way delay: 53.277 ms
Loss rate: 1.20%
-- Flow 1:
Average throughput: 83.22 Mbit/s
95th percentile per-packet one-way delay: 53.007 ms
Loss rate: 1.21%
-- Flow 2:
Average throughput: 11.40 Mbit/s
95th percentile per-packet one-way delay: 56.296 ms
Loss rate: 1.09%
-- Flow 3:
Average throughput: 4.33 Mbit/s
95th percentile per-packet one-way delay: 62.248 ms
Loss rate: 1.61%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2018-01-02 13:43:34

End at: 2018-01-02 13:44:04

Local clock offset: 0.746 ms

Remote clock offset: -0.15 ms

Below is generated by plot.py at 2018-01-02 14:45:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 90.15 Mbit/s

95th percentile per-packet one-way delay: 65.793 ms

Loss rate: 2.72%

-- Flow 1:

Average throughput: 76.54 Mbit/s

95th percentile per-packet one-way delay: 65.702 ms

Loss rate: 2.71%

-- Flow 2:

Average throughput: 15.35 Mbit/s

95th percentile per-packet one-way delay: 66.653 ms

Loss rate: 3.23%

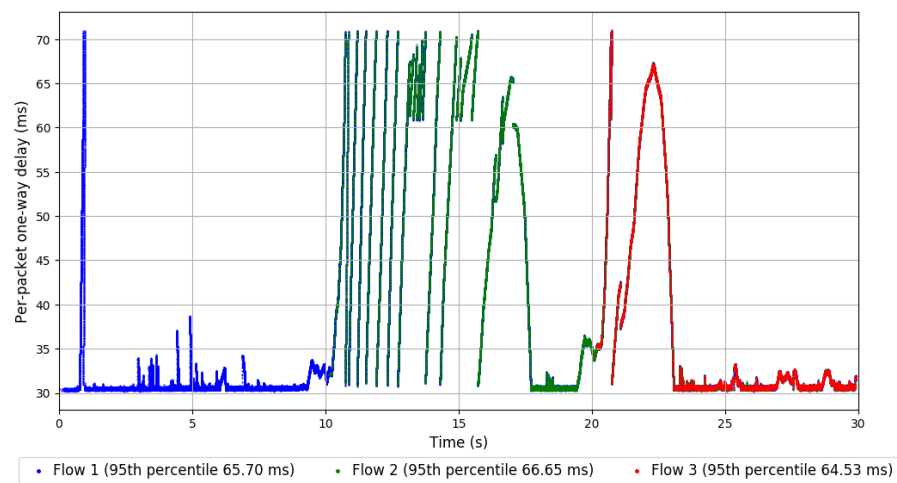
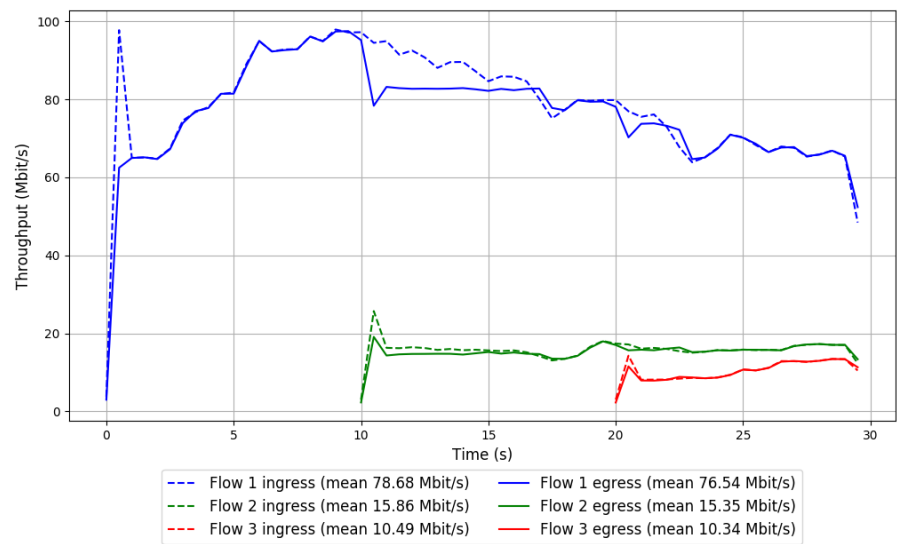
-- Flow 3:

Average throughput: 10.34 Mbit/s

95th percentile per-packet one-way delay: 64.532 ms

Loss rate: 1.43%

Run 9: Report of PCC — Data Link

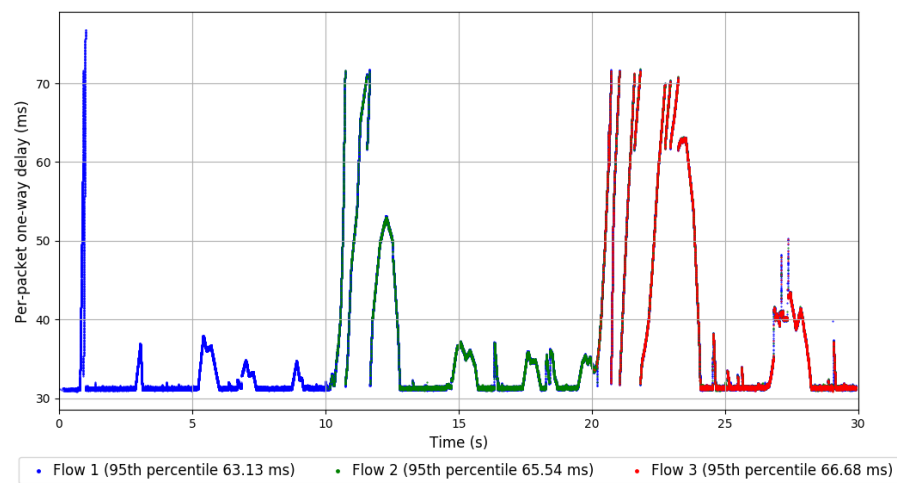
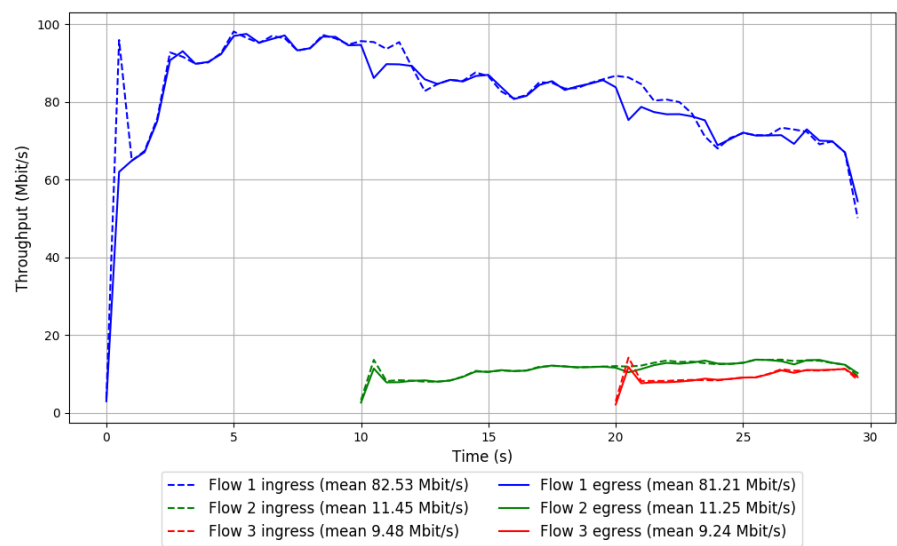


Run 10: Statistics of PCC

Start at: 2018-01-02 14:04:39
End at: 2018-01-02 14:05:09
Local clock offset: 0.481 ms
Remote clock offset: -0.076 ms

Below is generated by plot.py at 2018-01-02 14:46:03
Datalink statistics
-- Total of 3 flows:
Average throughput: 91.73 Mbit/s
95th percentile per-packet one-way delay: 63.714 ms
Loss rate: 1.64%
-- Flow 1:
Average throughput: 81.21 Mbit/s
95th percentile per-packet one-way delay: 63.132 ms
Loss rate: 1.60%
-- Flow 2:
Average throughput: 11.25 Mbit/s
95th percentile per-packet one-way delay: 65.540 ms
Loss rate: 1.73%
-- Flow 3:
Average throughput: 9.24 Mbit/s
95th percentile per-packet one-way delay: 66.676 ms
Loss rate: 2.46%

Run 10: Report of PCC — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2018-01-02 10:52:58

End at: 2018-01-02 10:53:28

Local clock offset: 0.793 ms

Remote clock offset: 1.181 ms

Below is generated by plot.py at 2018-01-02 14:46:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.81 Mbit/s

95th percentile per-packet one-way delay: 64.155 ms

Loss rate: 2.45%

-- Flow 1:

Average throughput: 50.33 Mbit/s

95th percentile per-packet one-way delay: 64.164 ms

Loss rate: 2.31%

-- Flow 2:

Average throughput: 44.68 Mbit/s

95th percentile per-packet one-way delay: 63.398 ms

Loss rate: 3.09%

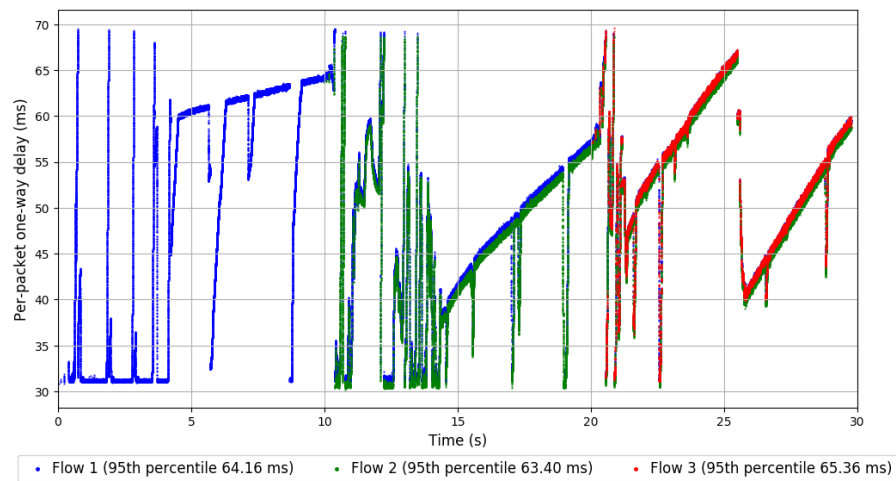
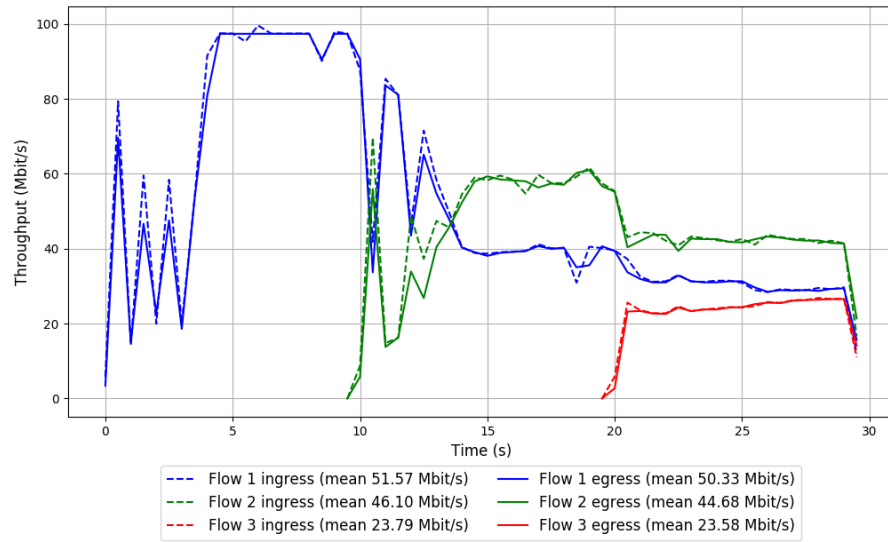
-- Flow 3:

Average throughput: 23.58 Mbit/s

95th percentile per-packet one-way delay: 65.356 ms

Loss rate: 0.86%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-01-02 11:13:52

End at: 2018-01-02 11:14:22

Local clock offset: 0.84 ms

Remote clock offset: 0.526 ms

Below is generated by plot.py at 2018-01-02 14:46:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.23 Mbit/s

95th percentile per-packet one-way delay: 64.242 ms

Loss rate: 1.42%

-- Flow 1:

Average throughput: 65.61 Mbit/s

95th percentile per-packet one-way delay: 64.134 ms

Loss rate: 1.59%

-- Flow 2:

Average throughput: 17.33 Mbit/s

95th percentile per-packet one-way delay: 64.511 ms

Loss rate: 0.83%

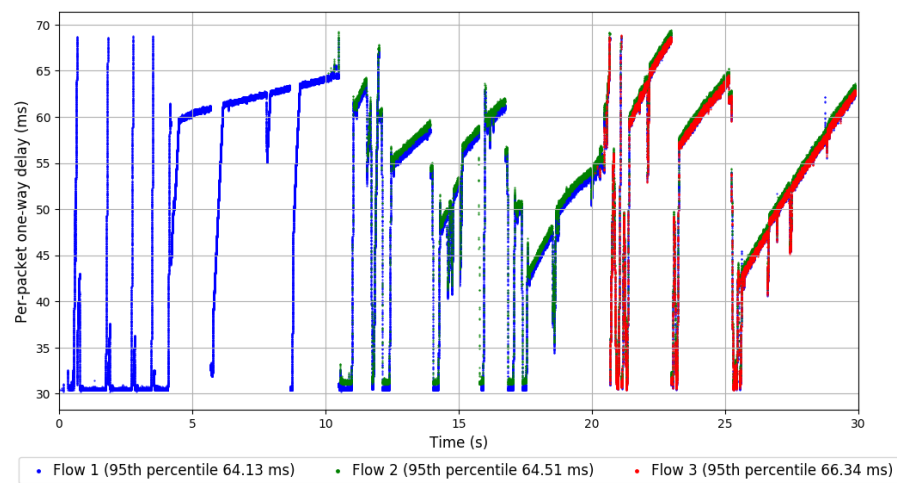
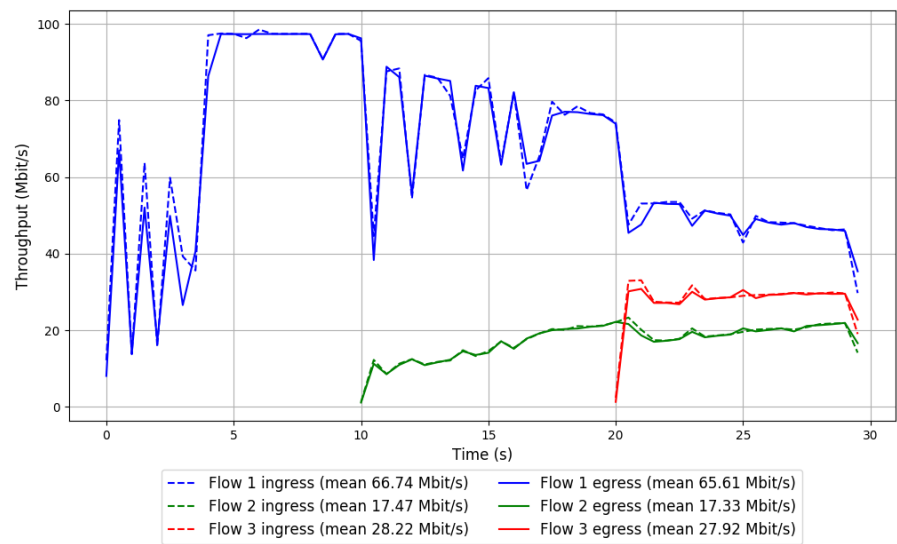
-- Flow 3:

Average throughput: 27.92 Mbit/s

95th percentile per-packet one-way delay: 66.338 ms

Loss rate: 0.97%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-01-02 11:34:47

End at: 2018-01-02 11:35:17

Local clock offset: 0.995 ms

Remote clock offset: 0.089 ms

Below is generated by plot.py at 2018-01-02 14:46:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.13 Mbit/s

95th percentile per-packet one-way delay: 63.764 ms

Loss rate: 1.42%

-- Flow 1:

Average throughput: 58.20 Mbit/s

95th percentile per-packet one-way delay: 62.893 ms

Loss rate: 1.45%

-- Flow 2:

Average throughput: 28.96 Mbit/s

95th percentile per-packet one-way delay: 64.449 ms

Loss rate: 1.63%

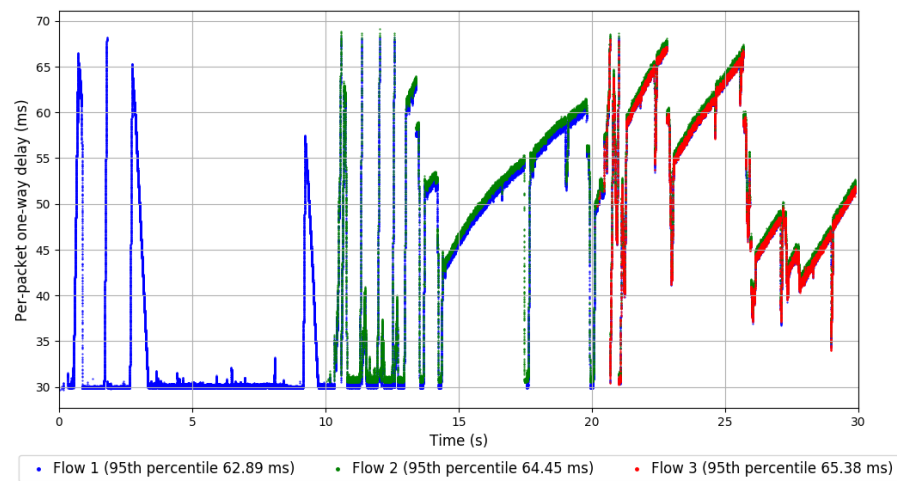
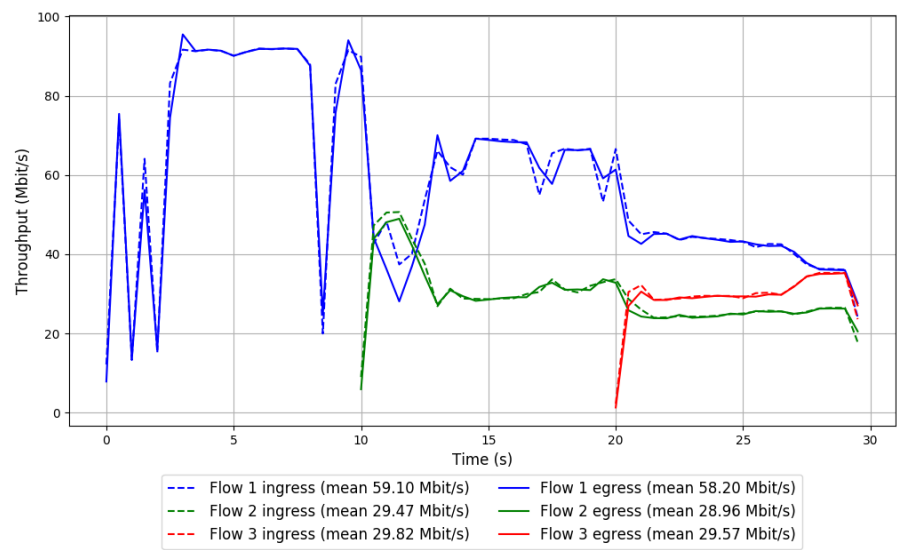
-- Flow 3:

Average throughput: 29.57 Mbit/s

95th percentile per-packet one-way delay: 65.384 ms

Loss rate: 0.82%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-01-02 11:55:47

End at: 2018-01-02 11:56:17

Local clock offset: 0.885 ms

Remote clock offset: 0.551 ms

Below is generated by plot.py at 2018-01-02 14:46:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.25 Mbit/s

95th percentile per-packet one-way delay: 66.018 ms

Loss rate: 1.31%

-- Flow 1:

Average throughput: 59.28 Mbit/s

95th percentile per-packet one-way delay: 66.081 ms

Loss rate: 1.40%

-- Flow 2:

Average throughput: 33.69 Mbit/s

95th percentile per-packet one-way delay: 65.854 ms

Loss rate: 1.17%

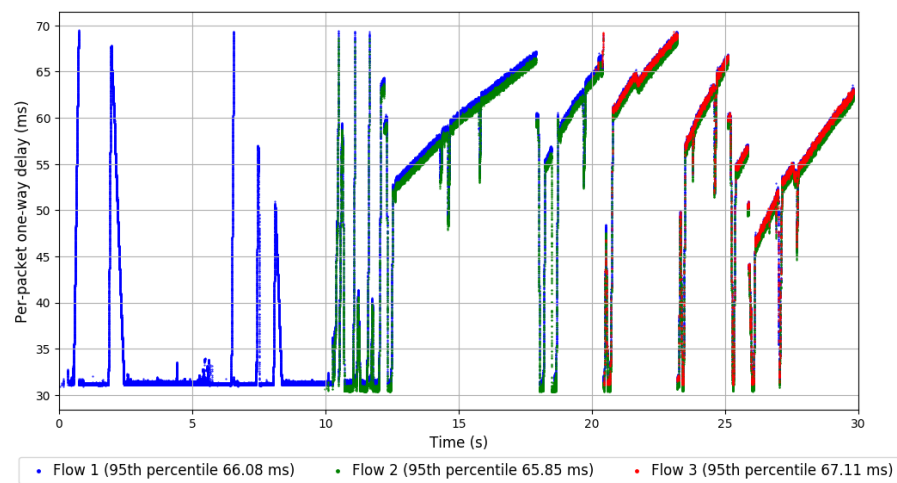
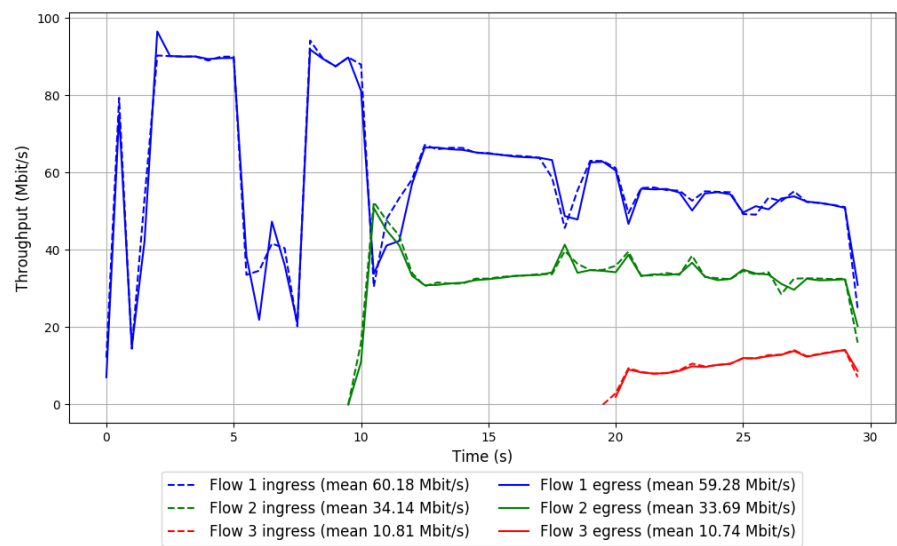
-- Flow 3:

Average throughput: 10.74 Mbit/s

95th percentile per-packet one-way delay: 67.110 ms

Loss rate: 0.71%

Run 4: Report of QUIC Cubic — Data Link

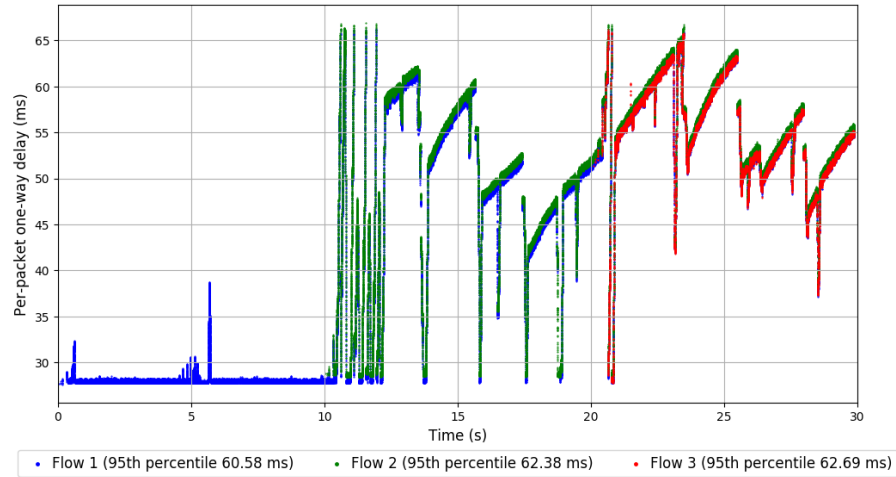
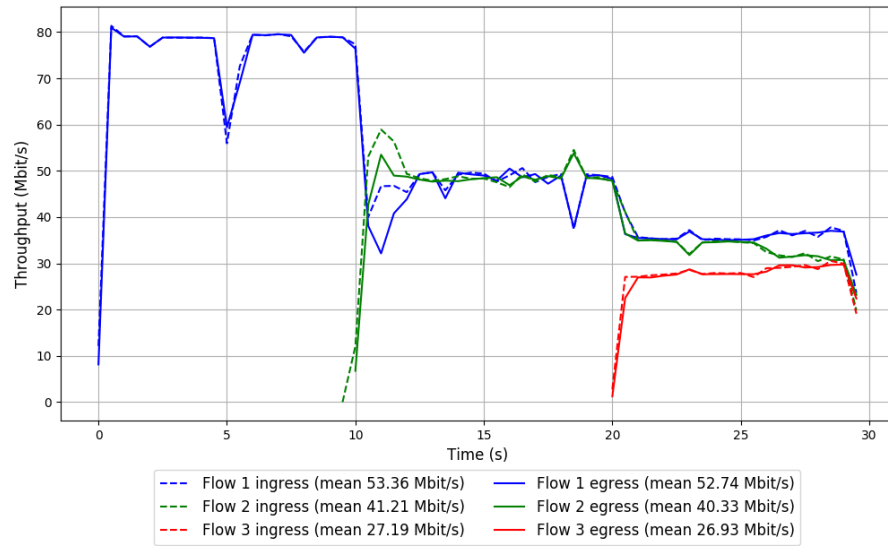


Run 5: Statistics of QUIC Cubic

Start at: 2018-01-02 12:16:41
End at: 2018-01-02 12:17:11
Local clock offset: 0.819 ms
Remote clock offset: -2.328 ms

Below is generated by plot.py at 2018-01-02 14:47:14
Datalink statistics
-- Total of 3 flows:
Average throughput: 88.38 Mbit/s
95th percentile per-packet one-way delay: 61.628 ms
Loss rate: 1.34%
-- Flow 1:
Average throughput: 52.74 Mbit/s
95th percentile per-packet one-way delay: 60.576 ms
Loss rate: 1.08%
-- Flow 2:
Average throughput: 40.33 Mbit/s
95th percentile per-packet one-way delay: 62.384 ms
Loss rate: 2.01%
-- Flow 3:
Average throughput: 26.93 Mbit/s
95th percentile per-packet one-way delay: 62.691 ms
Loss rate: 0.90%

Run 5: Report of QUIC Cubic — Data Link

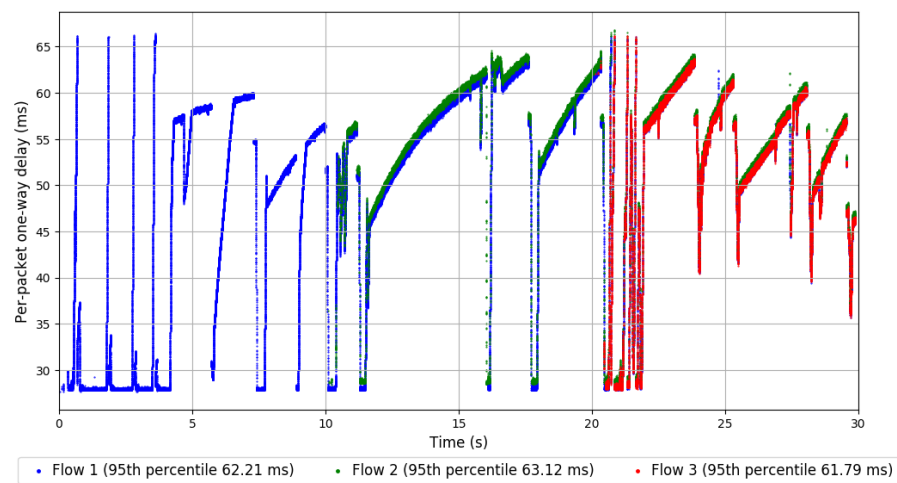
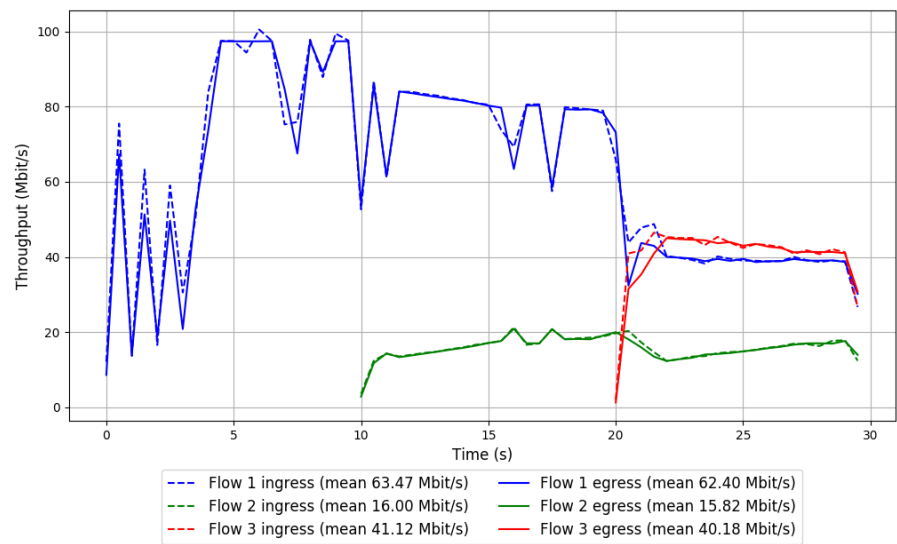


Run 6: Statistics of QUIC Cubic

Start at: 2018-01-02 12:37:34
End at: 2018-01-02 12:38:04
Local clock offset: 0.785 ms
Remote clock offset: -2.314 ms

Below is generated by plot.py at 2018-01-02 14:47:14
Datalink statistics
-- Total of 3 flows:
Average throughput: 86.02 Mbit/s
95th percentile per-packet one-way delay: 62.326 ms
Loss rate: 1.69%
-- Flow 1:
Average throughput: 62.40 Mbit/s
95th percentile per-packet one-way delay: 62.211 ms
Loss rate: 1.63%
-- Flow 2:
Average throughput: 15.82 Mbit/s
95th percentile per-packet one-way delay: 63.122 ms
Loss rate: 1.06%
-- Flow 3:
Average throughput: 40.18 Mbit/s
95th percentile per-packet one-way delay: 61.792 ms
Loss rate: 2.46%

Run 6: Report of QUIC Cubic — Data Link

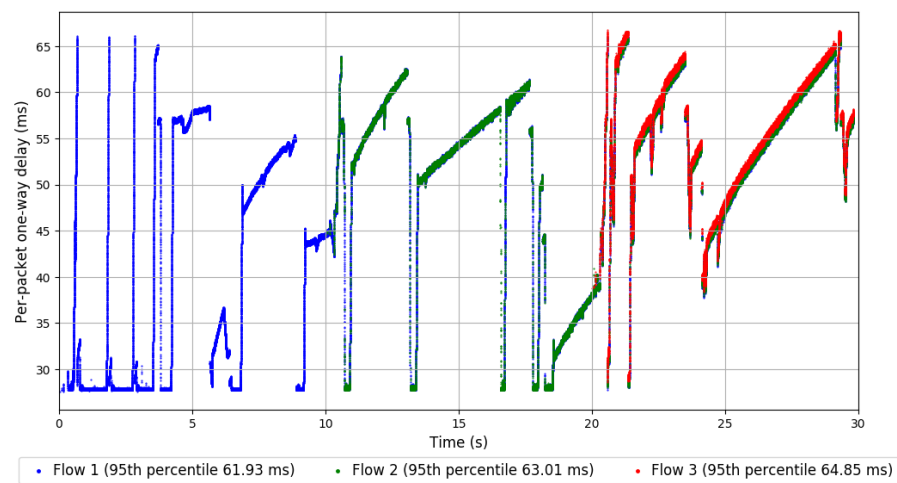
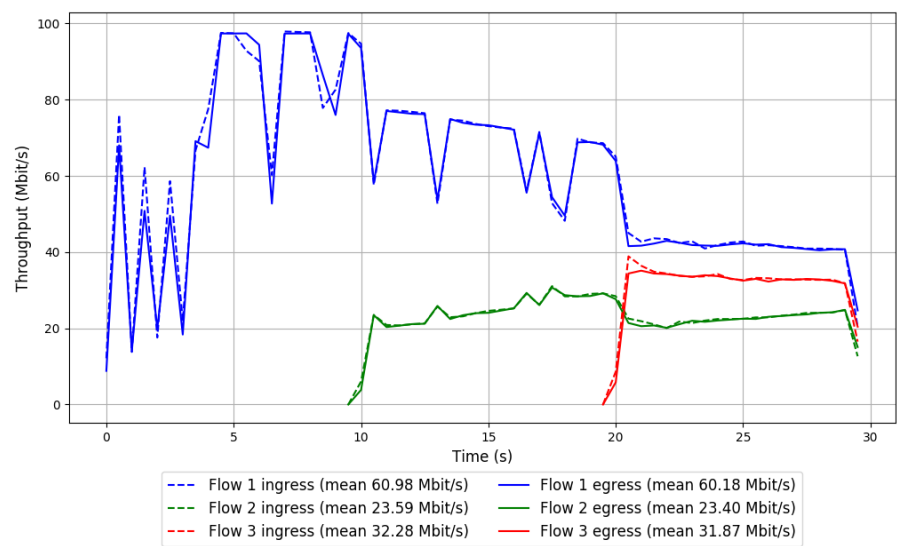


Run 7: Statistics of QUIC Cubic

Start at: 2018-01-02 12:58:07
End at: 2018-01-02 12:58:37
Local clock offset: 0.928 ms
Remote clock offset: -2.971 ms

Below is generated by plot.py at 2018-01-02 14:47:14
Datalink statistics
-- Total of 3 flows:
Average throughput: 86.26 Mbit/s
95th percentile per-packet one-way delay: 62.972 ms
Loss rate: 1.11%
-- Flow 1:
Average throughput: 60.18 Mbit/s
95th percentile per-packet one-way delay: 61.934 ms
Loss rate: 1.21%
-- Flow 2:
Average throughput: 23.40 Mbit/s
95th percentile per-packet one-way delay: 63.013 ms
Loss rate: 0.74%
-- Flow 3:
Average throughput: 31.87 Mbit/s
95th percentile per-packet one-way delay: 64.851 ms
Loss rate: 1.09%

Run 7: Report of QUIC Cubic — Data Link

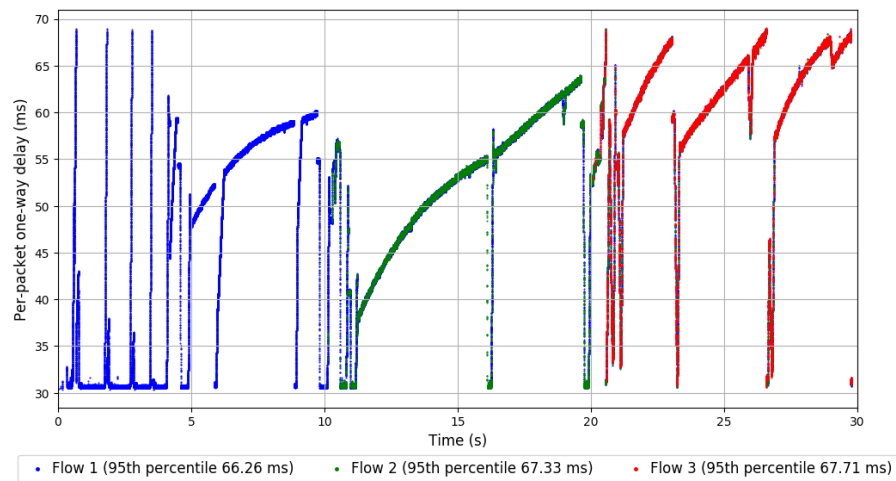
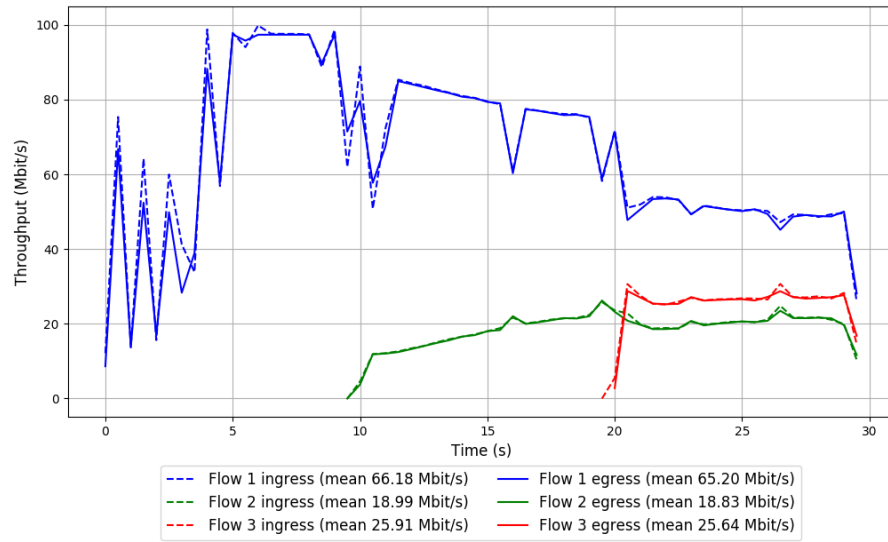


Run 8: Statistics of QUIC Cubic

Start at: 2018-01-02 13:18:49
End at: 2018-01-02 13:19:19
Local clock offset: 0.961 ms
Remote clock offset: -0.959 ms

Below is generated by plot.py at 2018-01-02 14:47:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 86.16 Mbit/s
95th percentile per-packet one-way delay: 66.923 ms
Loss rate: 1.37%
-- Flow 1:
Average throughput: 65.20 Mbit/s
95th percentile per-packet one-way delay: 66.263 ms
Loss rate: 1.48%
-- Flow 2:
Average throughput: 18.83 Mbit/s
95th percentile per-packet one-way delay: 67.325 ms
Loss rate: 0.85%
-- Flow 3:
Average throughput: 25.64 Mbit/s
95th percentile per-packet one-way delay: 67.709 ms
Loss rate: 1.27%

Run 8: Report of QUIC Cubic — Data Link

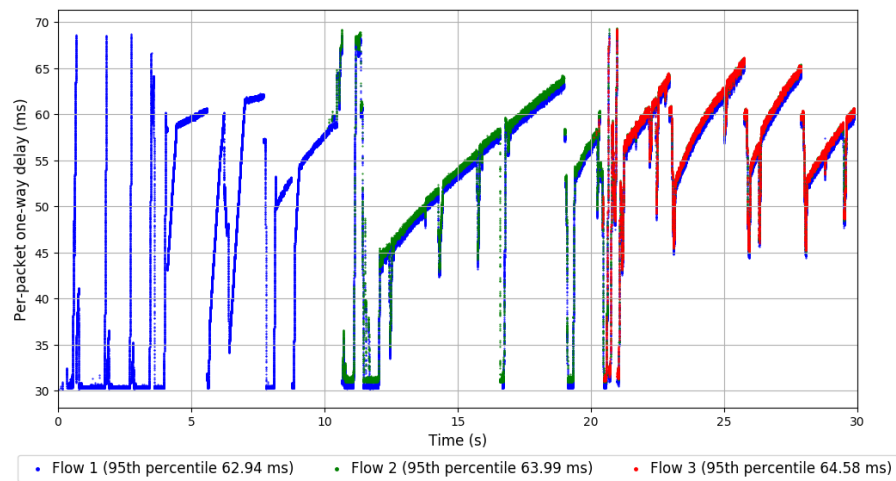
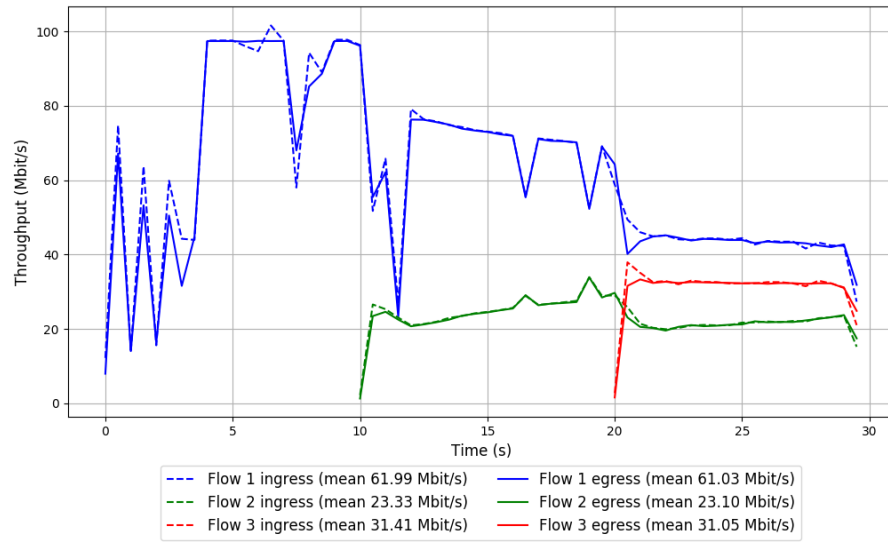


Run 9: Statistics of QUIC Cubic

Start at: 2018-01-02 13:39:29
End at: 2018-01-02 13:39:59
Local clock offset: 0.812 ms
Remote clock offset: -0.261 ms

Below is generated by plot.py at 2018-01-02 14:48:29
Datalink statistics
-- Total of 3 flows:
Average throughput: 86.52 Mbit/s
95th percentile per-packet one-way delay: 63.603 ms
Loss rate: 1.33%
-- Flow 1:
Average throughput: 61.03 Mbit/s
95th percentile per-packet one-way delay: 62.944 ms
Loss rate: 1.46%
-- Flow 2:
Average throughput: 23.10 Mbit/s
95th percentile per-packet one-way delay: 63.995 ms
Loss rate: 0.96%
-- Flow 3:
Average throughput: 31.05 Mbit/s
95th percentile per-packet one-way delay: 64.577 ms
Loss rate: 1.10%

Run 9: Report of QUIC Cubic — Data Link

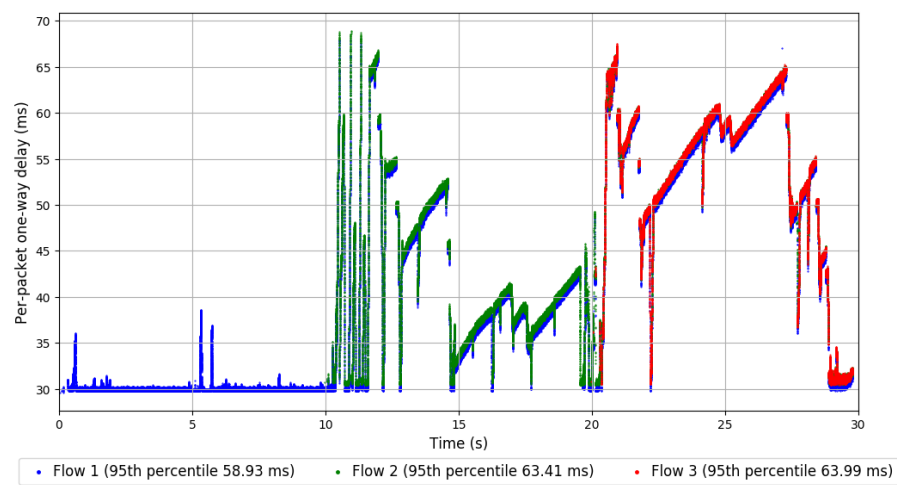
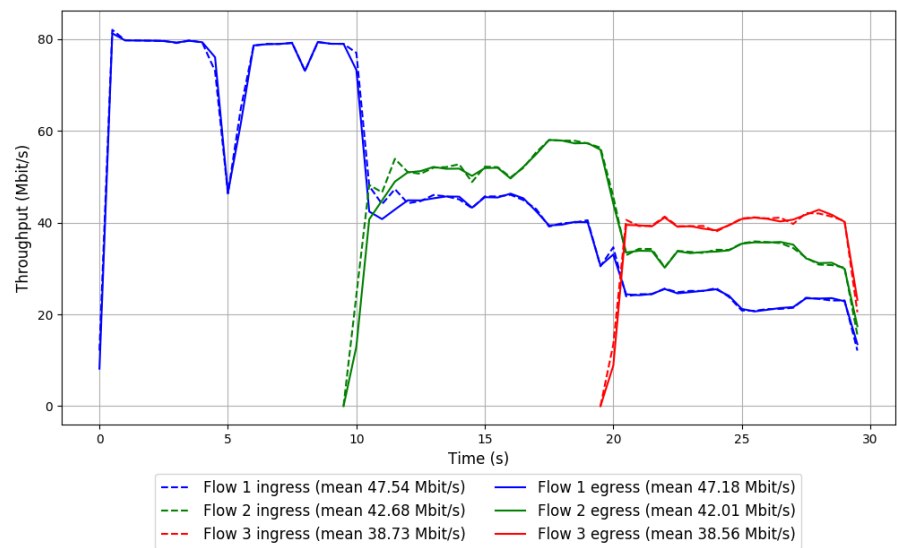


Run 10: Statistics of QUIC Cubic

Start at: 2018-01-02 14:00:30
End at: 2018-01-02 14:01:00
Local clock offset: 0.526 ms
Remote clock offset: -0.583 ms

Below is generated by plot.py at 2018-01-02 14:48:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 87.86 Mbit/s
95th percentile per-packet one-way delay: 62.214 ms
Loss rate: 0.96%
-- Flow 1:
Average throughput: 47.18 Mbit/s
95th percentile per-packet one-way delay: 58.927 ms
Loss rate: 0.76%
-- Flow 2:
Average throughput: 42.01 Mbit/s
95th percentile per-packet one-way delay: 63.413 ms
Loss rate: 1.55%
-- Flow 3:
Average throughput: 38.56 Mbit/s
95th percentile per-packet one-way delay: 63.987 ms
Loss rate: 0.41%

Run 10: Report of QUIC Cubic — Data Link

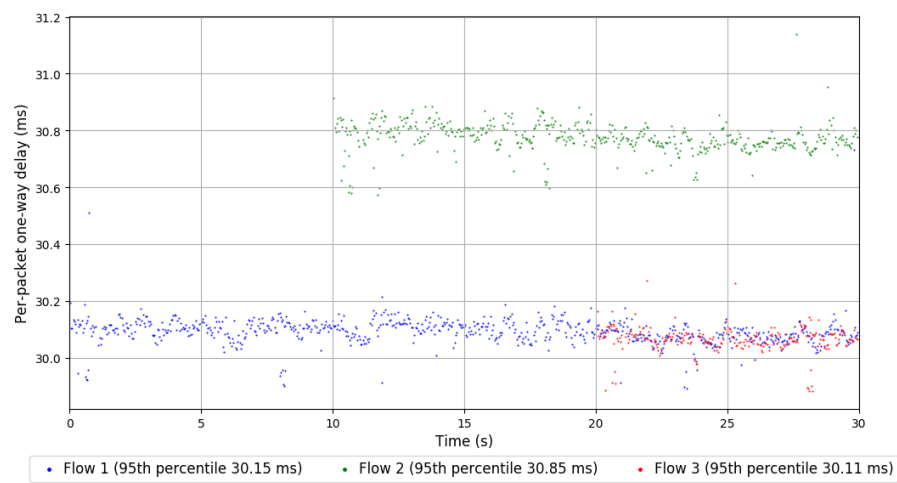
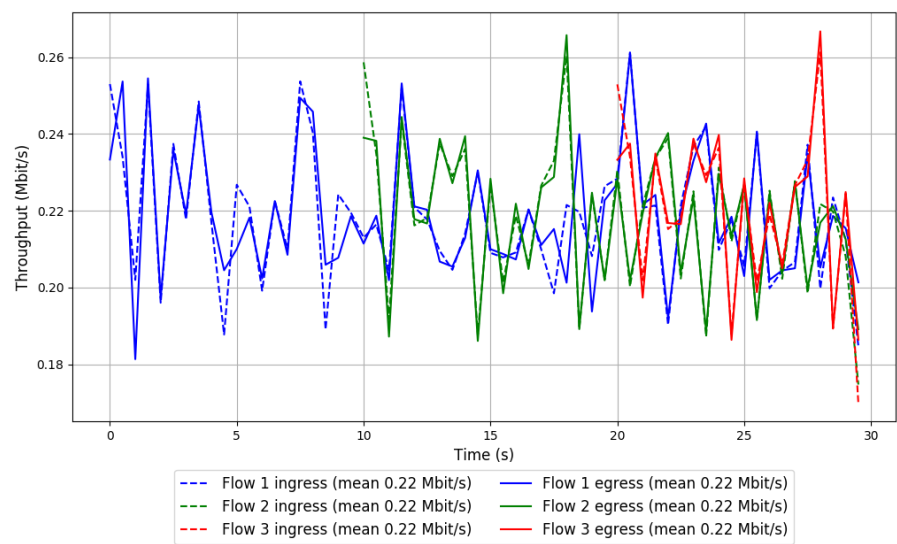


```
Run 1: Statistics of SCReAM

Start at: 2018-01-02 10:58:26
End at: 2018-01-02 10:58:56
Local clock offset: 0.746 ms
Remote clock offset: 0.448 ms

# Below is generated by plot.py at 2018-01-02 14:48:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 30.820 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 30.150 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 30.847 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 30.115 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SReAM

Start at: 2018-01-02 11:19:19

End at: 2018-01-02 11:19:49

Local clock offset: 0.866 ms

Remote clock offset: 0.38 ms

Below is generated by plot.py at 2018-01-02 14:48:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 31.085 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 30.476 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 30.453 ms

Loss rate: 0.00%

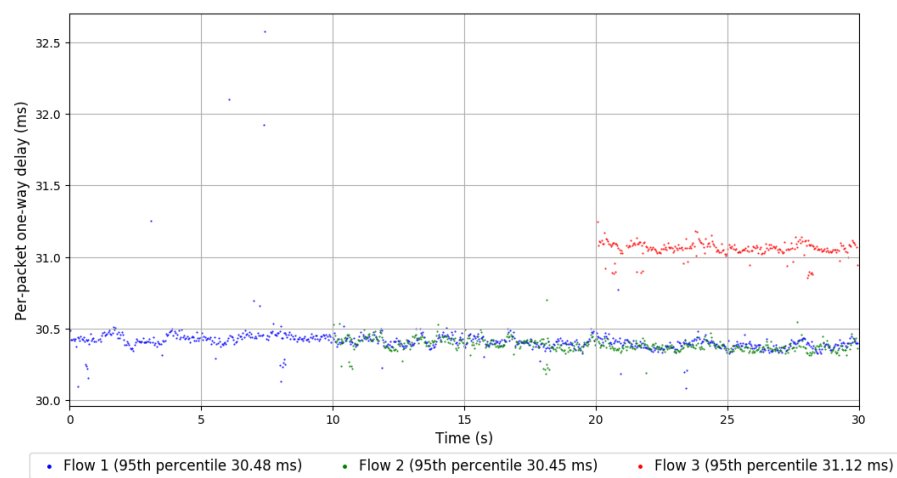
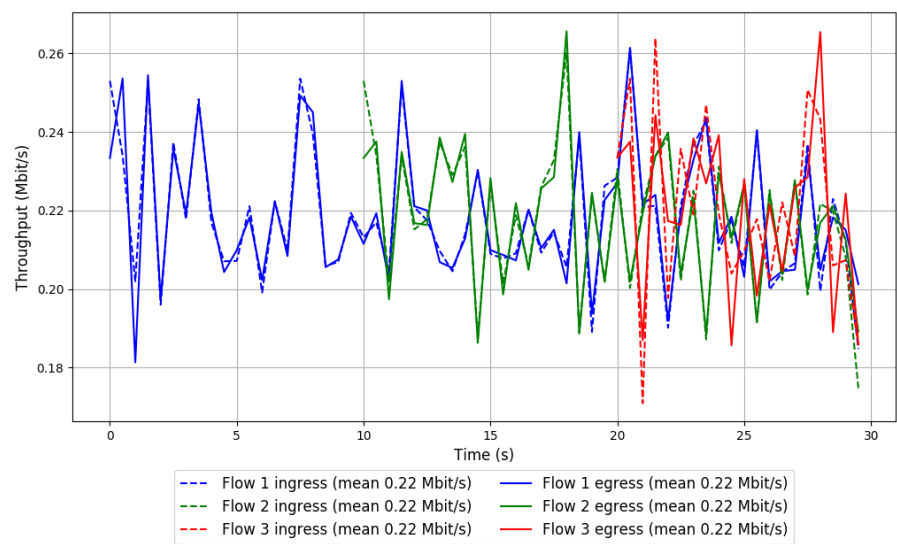
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 31.120 ms

Loss rate: 0.00%

Run 2: Report of SCRaM — Data Link



Run 3: Statistics of SReAM

Start at: 2018-01-02 11:40:21

End at: 2018-01-02 11:40:51

Local clock offset: 0.996 ms

Remote clock offset: 0.023 ms

Below is generated by plot.py at 2018-01-02 14:48:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 30.712 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 30.724 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 30.028 ms

Loss rate: 0.00%

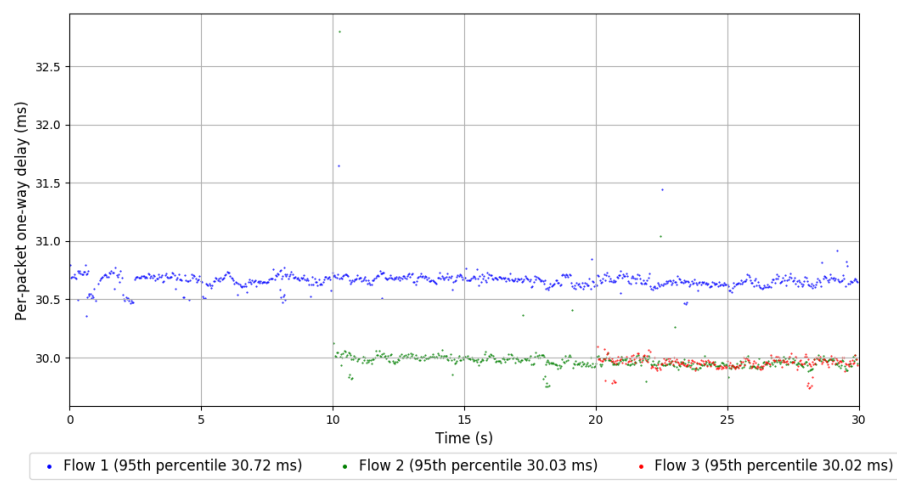
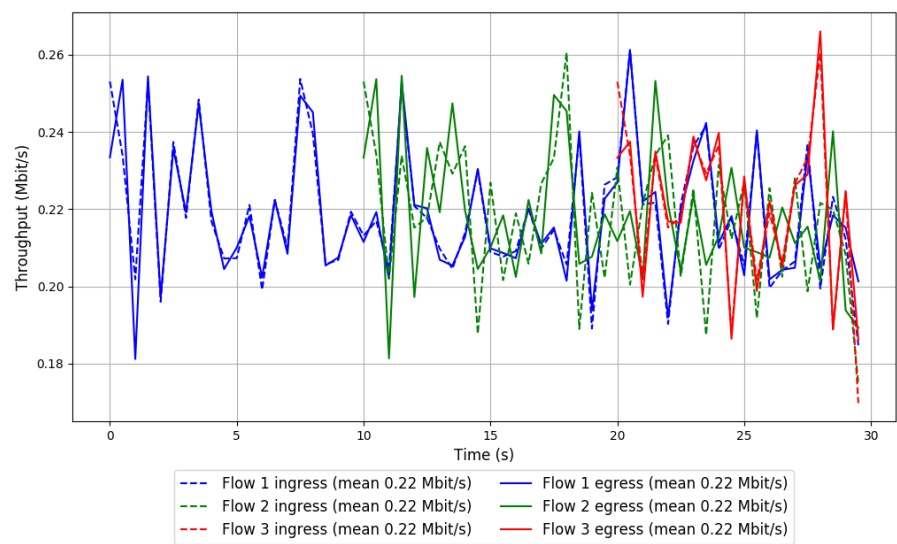
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 30.016 ms

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link

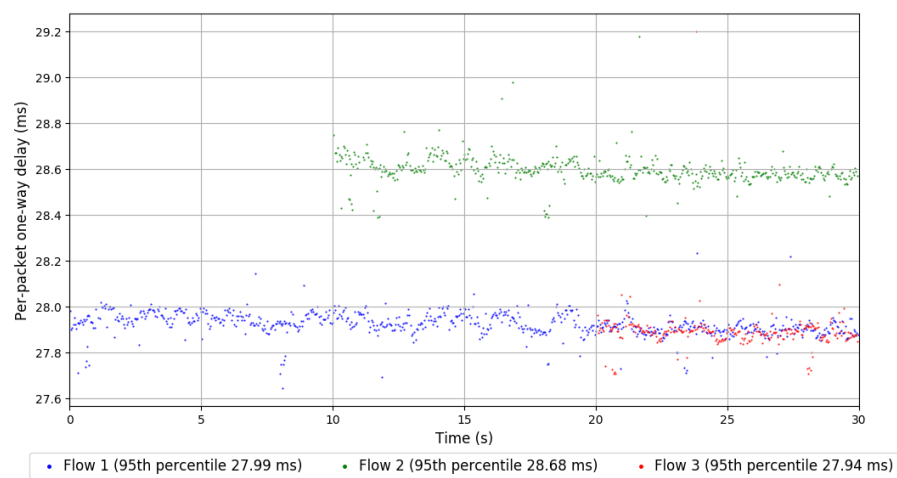
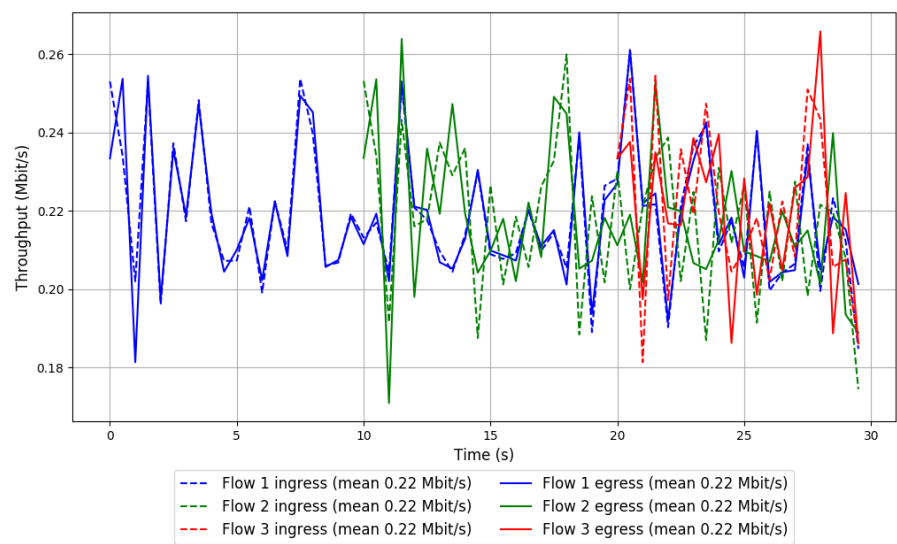


Run 4: Statistics of SReAM

Start at: 2018-01-02 12:01:13
End at: 2018-01-02 12:01:43
Local clock offset: 0.905 ms
Remote clock offset: -2.056 ms

Below is generated by plot.py at 2018-01-02 14:48:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 28.644 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 27.994 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 28.677 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 27.942 ms
Loss rate: 0.00%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SReAM

Start at: 2018-01-02 12:22:14

End at: 2018-01-02 12:22:44

Local clock offset: 0.865 ms

Remote clock offset: 0.26 ms

Below is generated by plot.py at 2018-01-02 14:48:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 31.136 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 30.540 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 30.511 ms

Loss rate: 0.00%

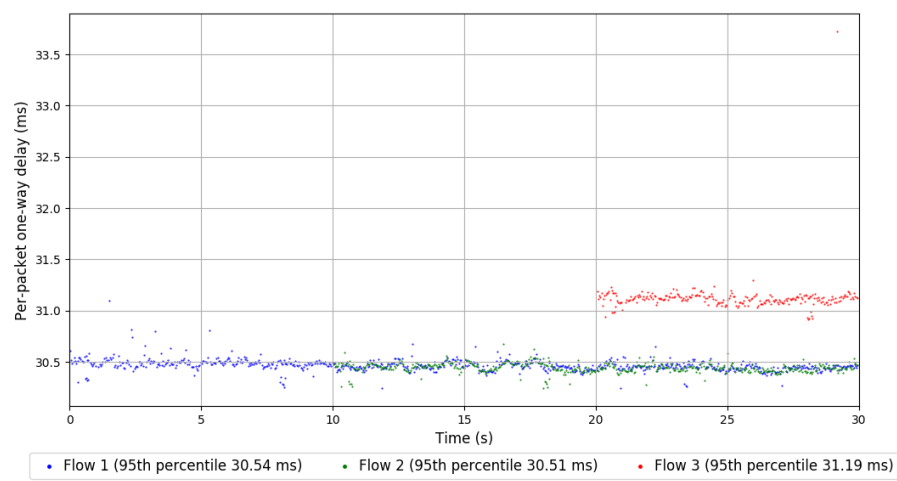
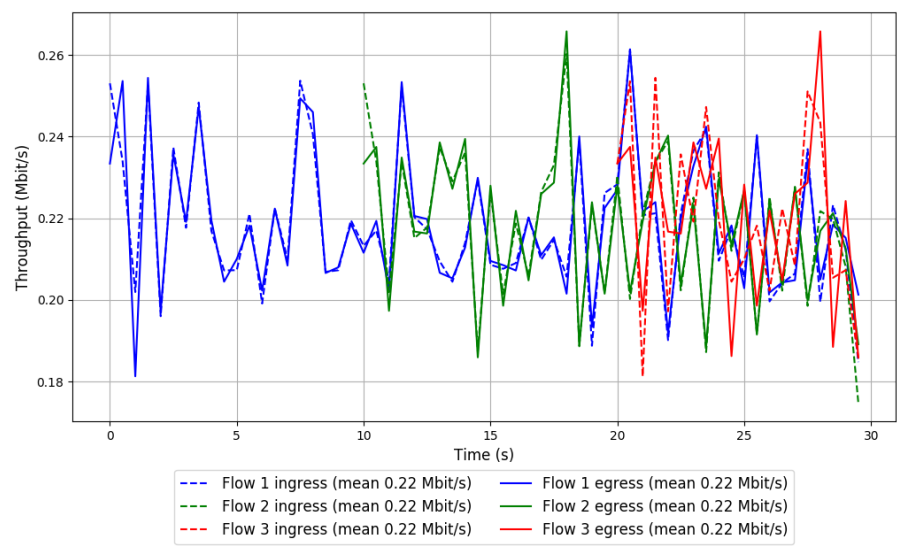
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 31.188 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SReAM

Start at: 2018-01-02 12:43:01

End at: 2018-01-02 12:43:31

Local clock offset: 0.845 ms

Remote clock offset: 0.169 ms

Below is generated by plot.py at 2018-01-02 14:48:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 31.278 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 31.330 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 30.573 ms

Loss rate: 0.00%

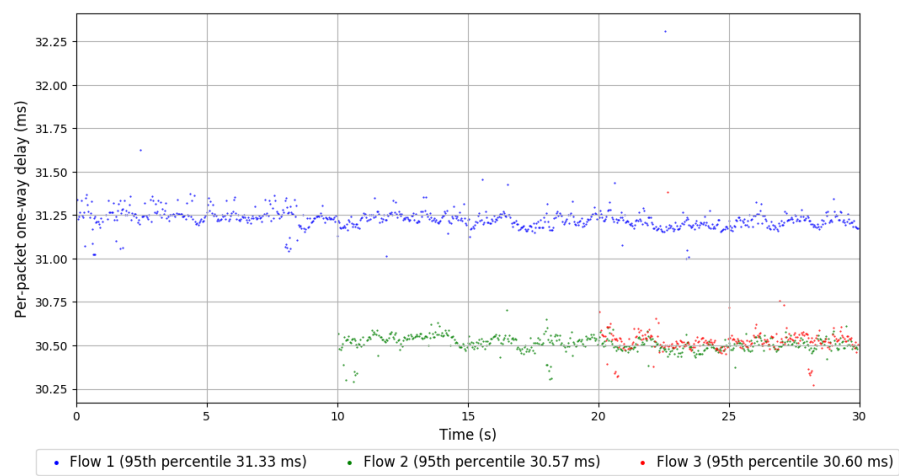
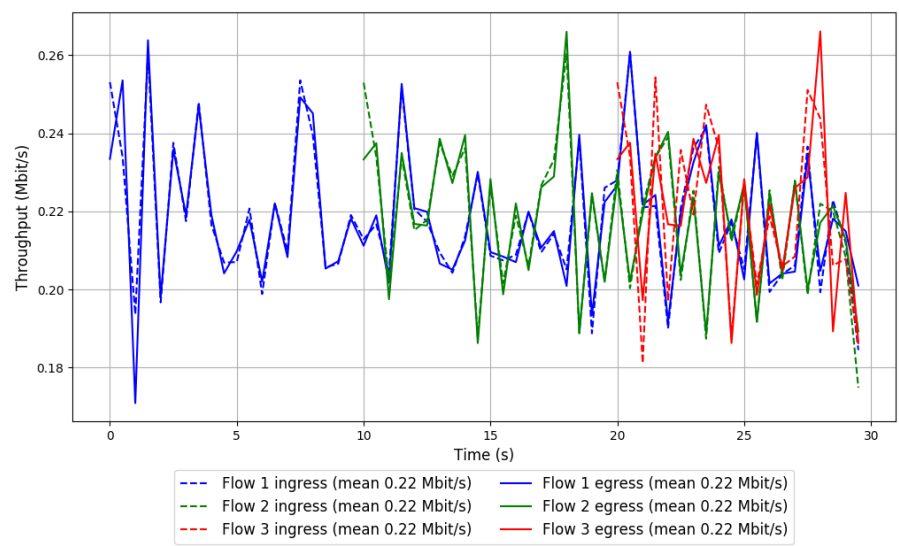
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 30.604 ms

Loss rate: 0.00%

Run 6: Report of SReAM — Data Link

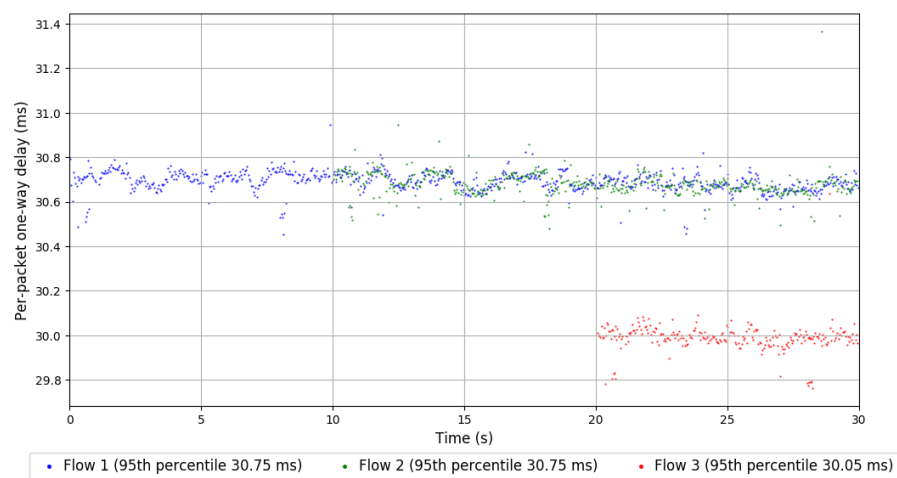
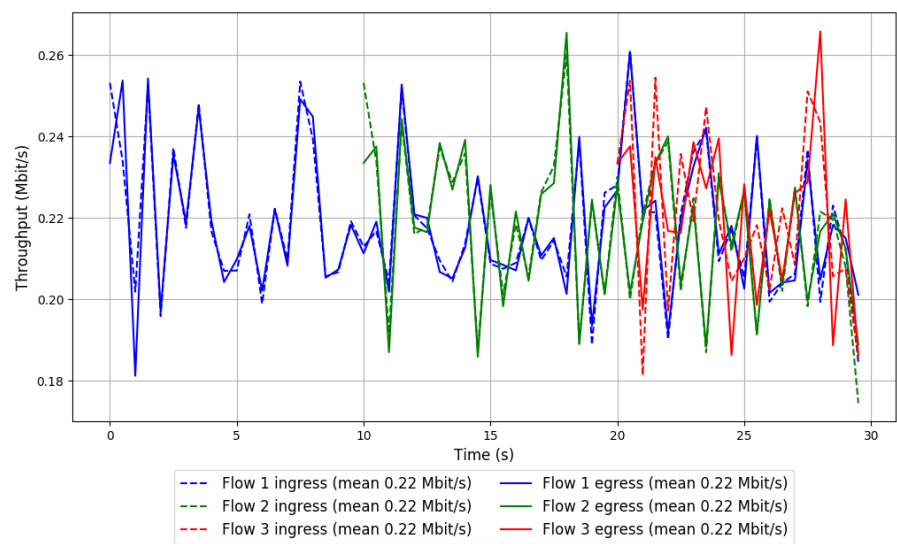


Run 7: Statistics of SReAM

Start at: 2018-01-02 13:03:33
End at: 2018-01-02 13:04:03
Local clock offset: 0.867 ms
Remote clock offset: -1.027 ms

Below is generated by plot.py at 2018-01-02 14:48:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 30.748 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 30.752 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 30.747 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 30.055 ms
Loss rate: 0.00%

Run 7: Report of SCReAM — Data Link

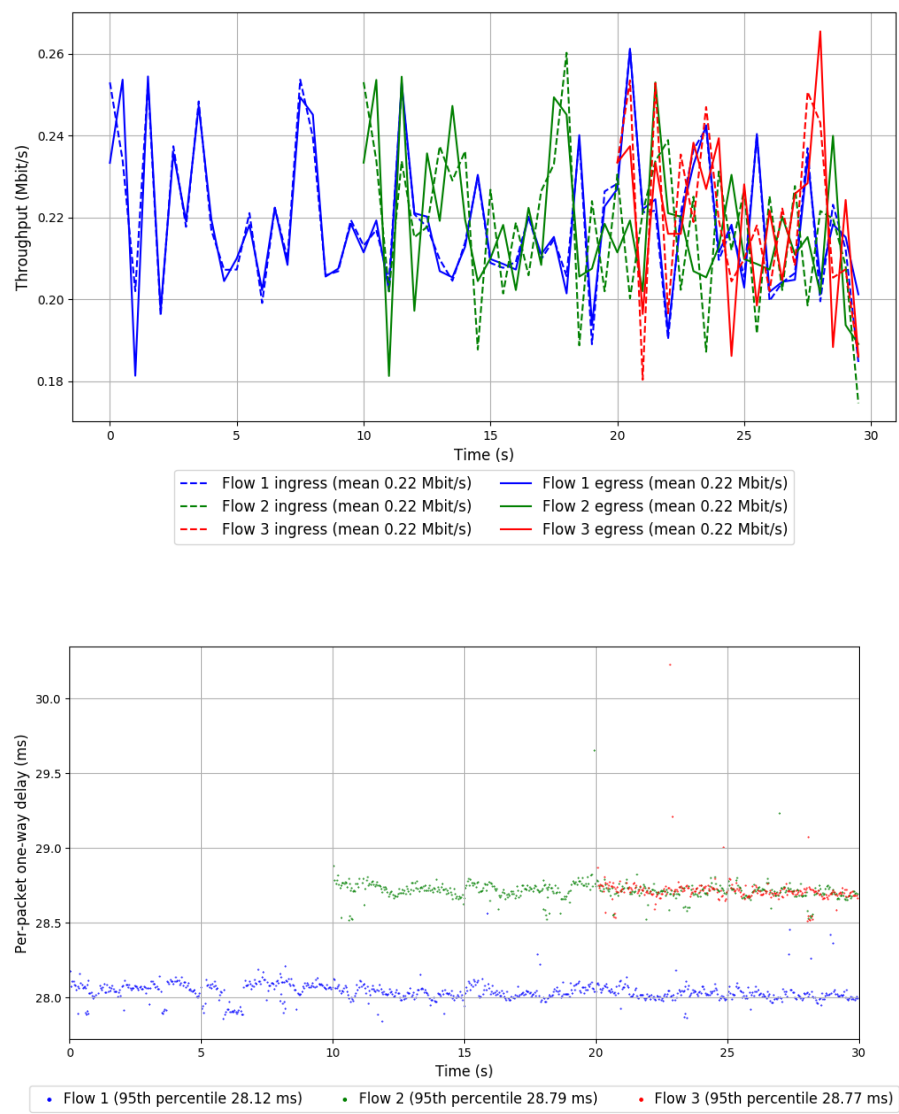


Run 8: Statistics of SReAM

Start at: 2018-01-02 13:24:16
End at: 2018-01-02 13:24:46
Local clock offset: 0.845 ms
Remote clock offset: -2.942 ms

Below is generated by plot.py at 2018-01-02 14:48:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 28.766 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 28.117 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 28.785 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 28.768 ms
Loss rate: 0.00%

Run 8: Report of SCRaM — Data Link

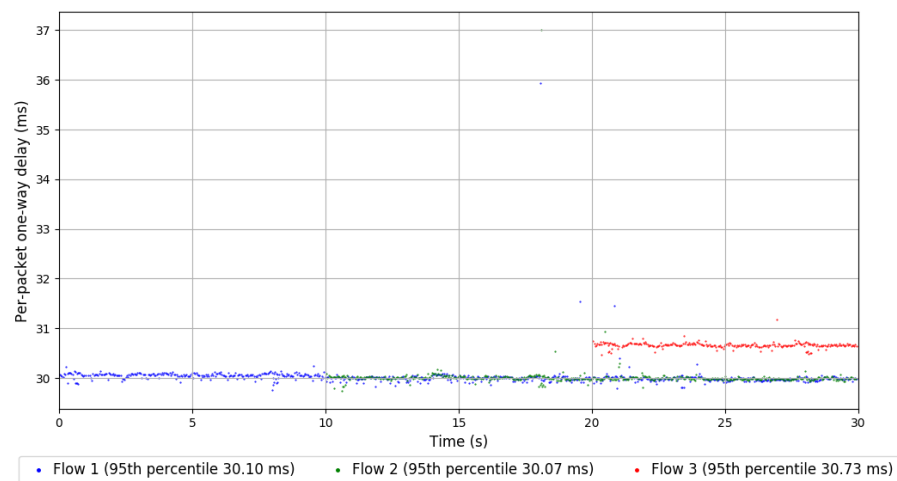
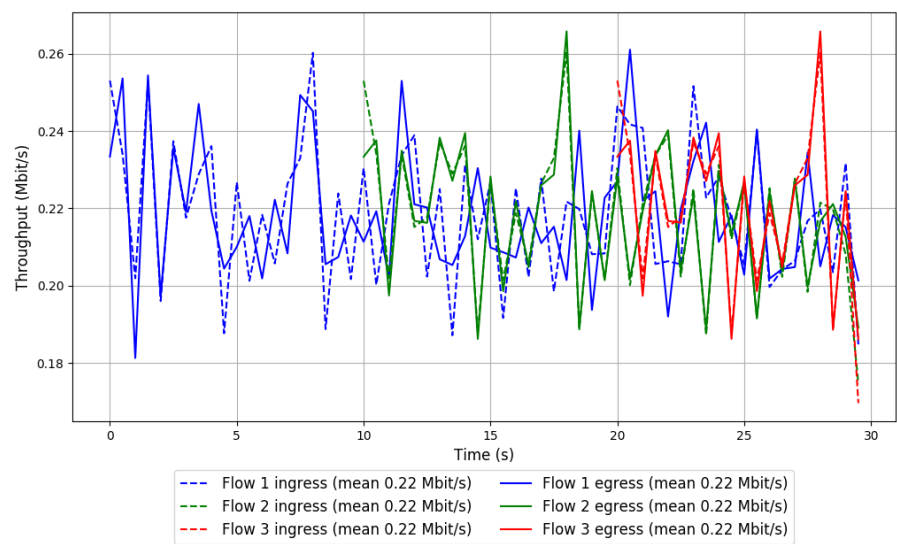


Run 9: Statistics of SReAM

Start at: 2018-01-02 13:44:56
End at: 2018-01-02 13:45:26
Local clock offset: 0.628 ms
Remote clock offset: -0.666 ms

Below is generated by plot.py at 2018-01-02 14:48:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 30.686 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 30.104 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 30.067 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 30.729 ms
Loss rate: 0.00%

Run 9: Report of SReAM — Data Link

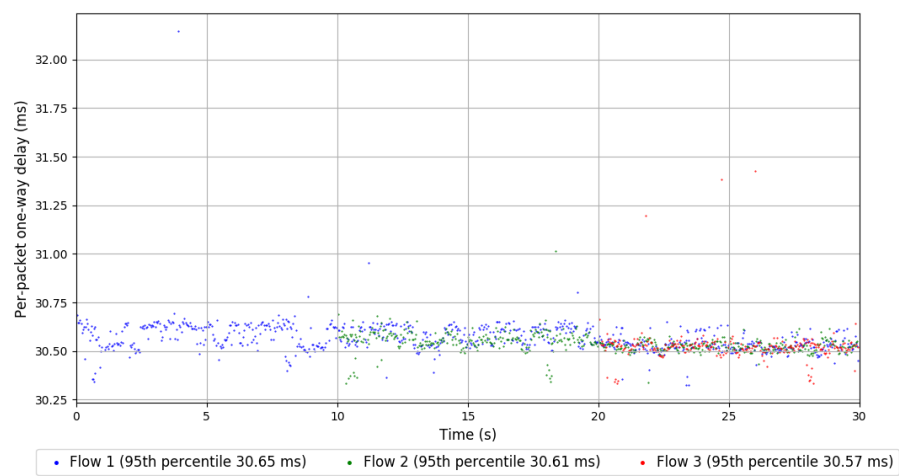
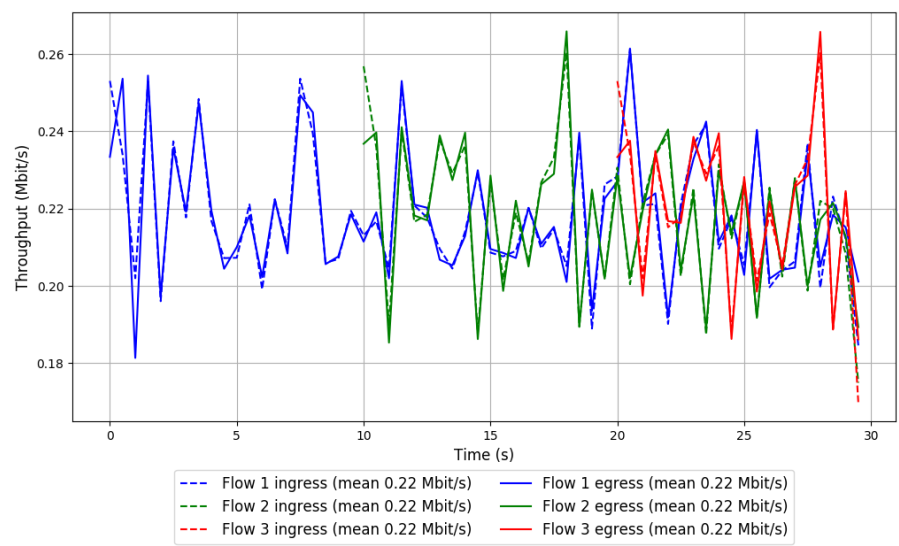


Run 10: Statistics of SReAM

Start at: 2018-01-02 14:06:03
End at: 2018-01-02 14:06:33
Local clock offset: 0.415 ms
Remote clock offset: -0.128 ms

Below is generated by plot.py at 2018-01-02 14:48:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 30.641 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 30.648 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 30.610 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 30.566 ms
Loss rate: 0.00%

Run 10: Report of SReAM — Data Link



Run 1: Statistics of WebRTC media

Start at: 2018-01-02 10:55:48

End at: 2018-01-02 10:56:18

Local clock offset: 0.826 ms

Remote clock offset: 0.41 ms

Below is generated by plot.py at 2018-01-02 14:48:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.50 Mbit/s

95th percentile per-packet one-way delay: 30.950 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 2.26 Mbit/s

95th percentile per-packet one-way delay: 30.558 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.68 Mbit/s

95th percentile per-packet one-way delay: 30.557 ms

Loss rate: 0.04%

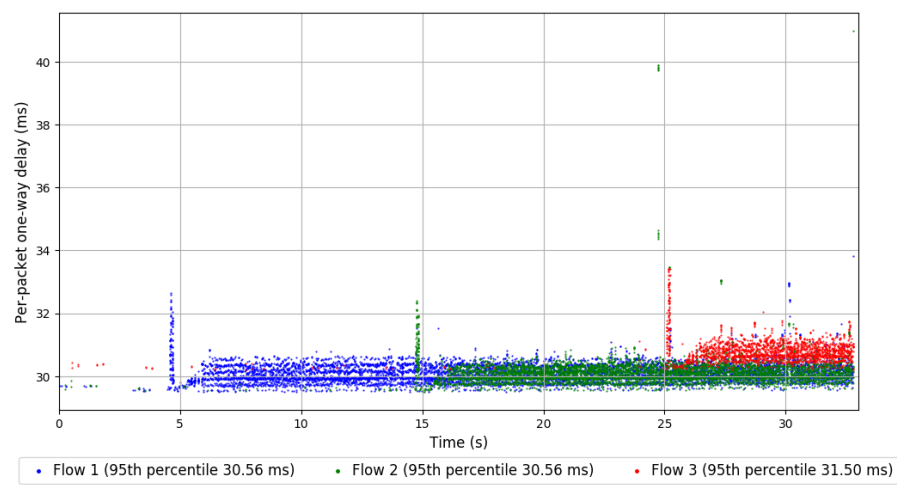
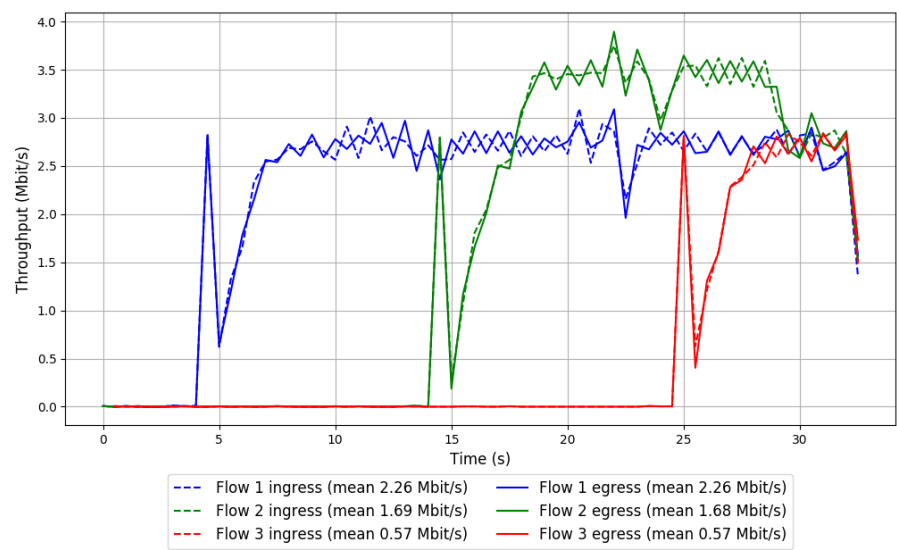
-- Flow 3:

Average throughput: 0.57 Mbit/s

95th percentile per-packet one-way delay: 31.504 ms

Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link

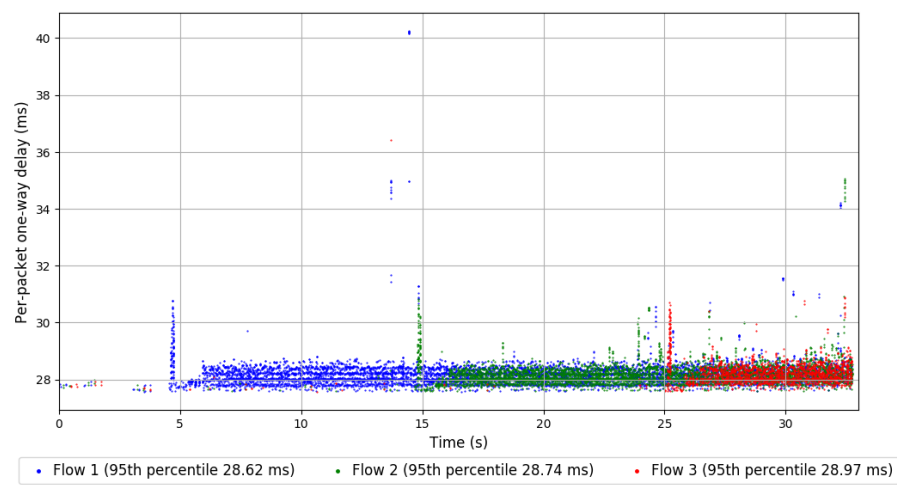
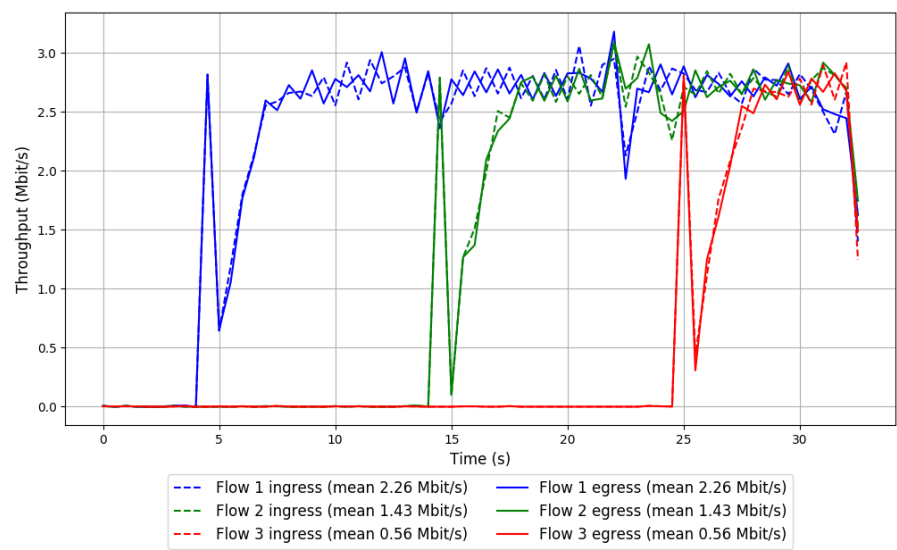


Run 2: Statistics of WebRTC media

Start at: 2018-01-02 11:16:40
End at: 2018-01-02 11:17:10
Local clock offset: 0.867 ms
Remote clock offset: -2.093 ms

Below is generated by plot.py at 2018-01-02 14:48:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 4.24 Mbit/s
95th percentile per-packet one-way delay: 28.678 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.26 Mbit/s
95th percentile per-packet one-way delay: 28.620 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.43 Mbit/s
95th percentile per-packet one-way delay: 28.743 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.56 Mbit/s
95th percentile per-packet one-way delay: 28.968 ms
Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-01-02 11:37:39

End at: 2018-01-02 11:38:09

Local clock offset: 0.99 ms

Remote clock offset: 0.032 ms

Below is generated by plot.py at 2018-01-02 14:48:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.25 Mbit/s

95th percentile per-packet one-way delay: 31.127 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.27 Mbit/s

95th percentile per-packet one-way delay: 30.687 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.44 Mbit/s

95th percentile per-packet one-way delay: 30.785 ms

Loss rate: 0.00%

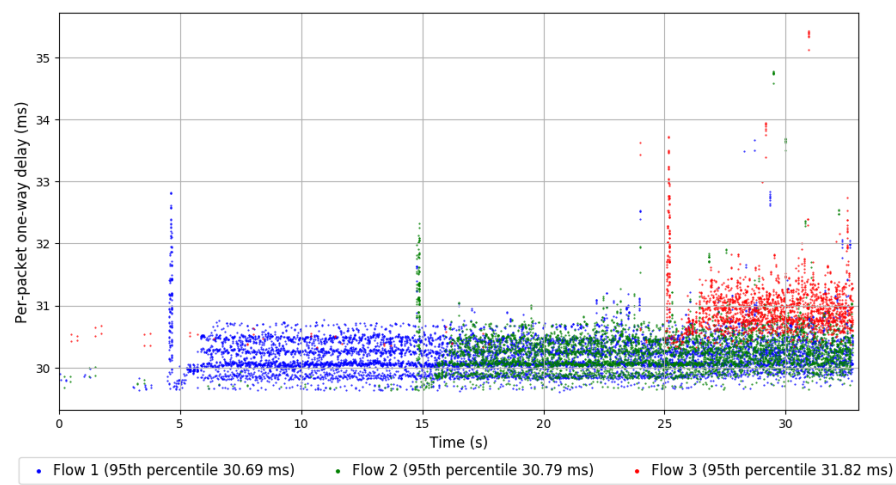
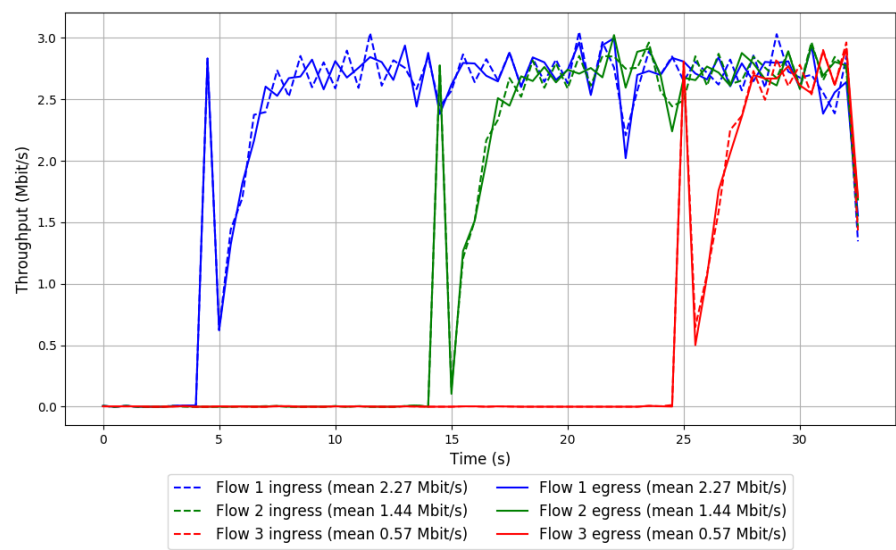
-- Flow 3:

Average throughput: 0.57 Mbit/s

95th percentile per-packet one-way delay: 31.821 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-01-02 11:58:34

End at: 2018-01-02 11:59:04

Local clock offset: 1.003 ms

Remote clock offset: 0.068 ms

Below is generated by plot.py at 2018-01-02 14:48:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.25 Mbit/s

95th percentile per-packet one-way delay: 31.020 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.27 Mbit/s

95th percentile per-packet one-way delay: 30.569 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.45 Mbit/s

95th percentile per-packet one-way delay: 30.654 ms

Loss rate: 0.00%

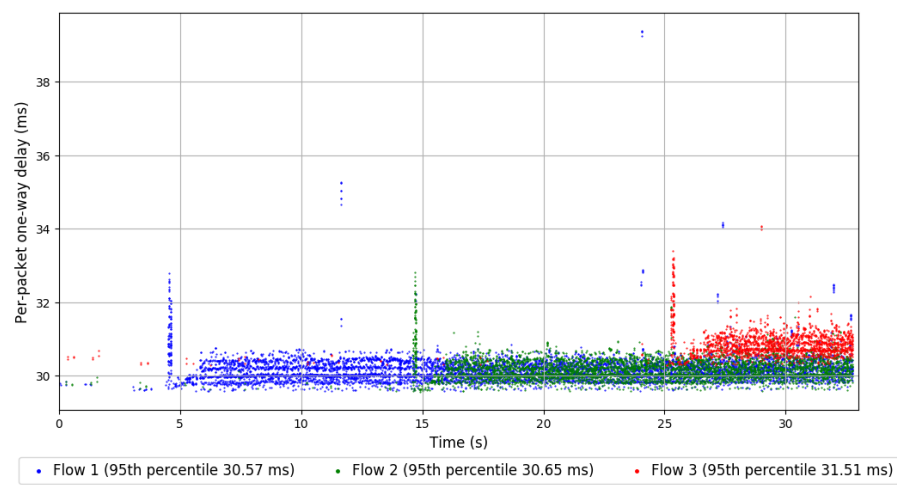
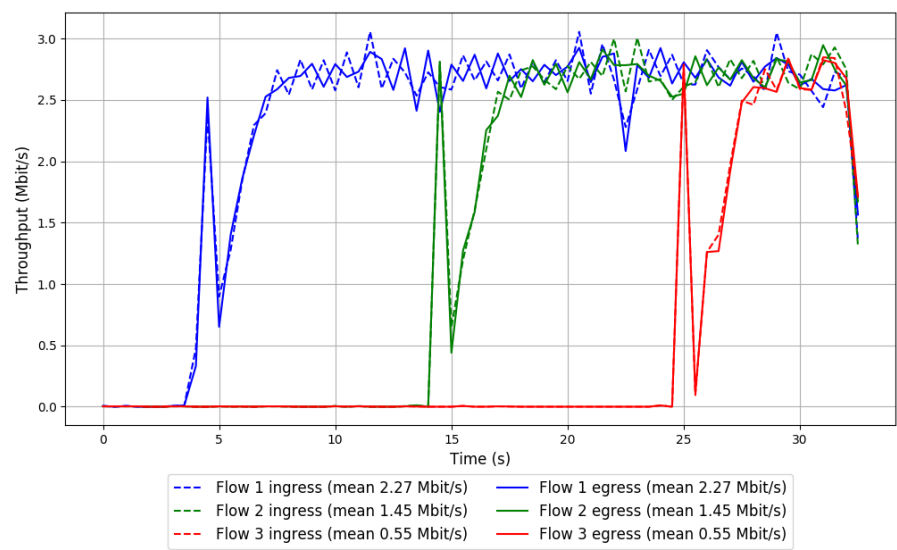
-- Flow 3:

Average throughput: 0.55 Mbit/s

95th percentile per-packet one-way delay: 31.511 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link

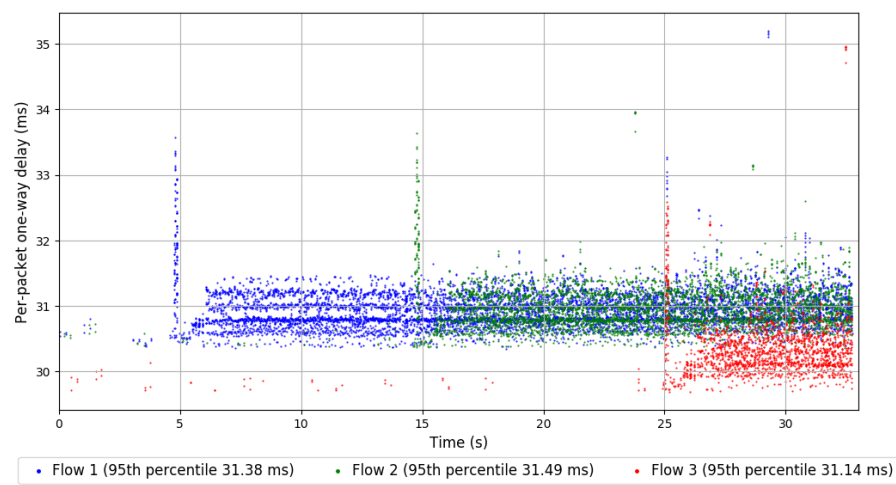
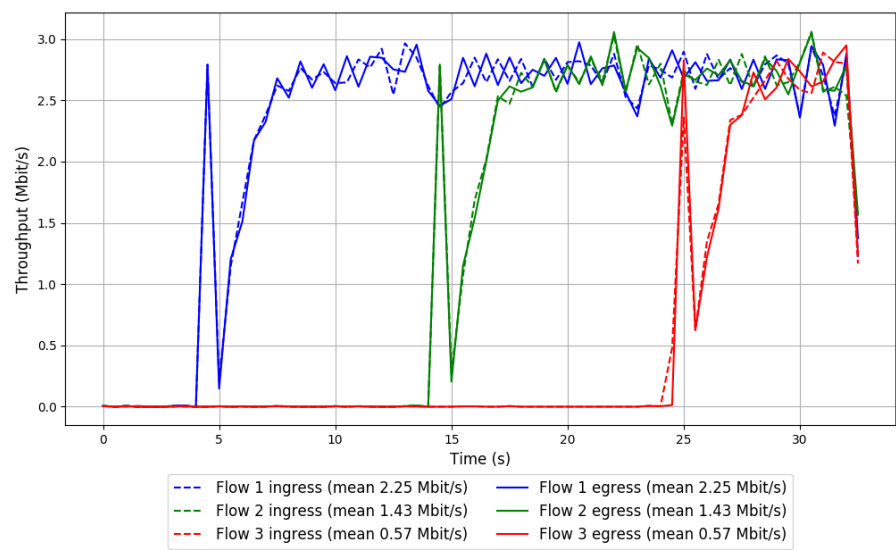


Run 5: Statistics of WebRTC media

Start at: 2018-01-02 12:19:31
End at: 2018-01-02 12:20:01
Local clock offset: 0.874 ms
Remote clock offset: -0.164 ms

Below is generated by plot.py at 2018-01-02 14:48:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 4.23 Mbit/s
95th percentile per-packet one-way delay: 31.407 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.25 Mbit/s
95th percentile per-packet one-way delay: 31.379 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.43 Mbit/s
95th percentile per-packet one-way delay: 31.486 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.57 Mbit/s
95th percentile per-packet one-way delay: 31.136 ms
Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-01-02 12:40:22

End at: 2018-01-02 12:40:52

Local clock offset: 0.768 ms

Remote clock offset: 0.048 ms

Below is generated by plot.py at 2018-01-02 14:48:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.26 Mbit/s

95th percentile per-packet one-way delay: 31.096 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.27 Mbit/s

95th percentile per-packet one-way delay: 31.027 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.44 Mbit/s

95th percentile per-packet one-way delay: 31.121 ms

Loss rate: 0.00%

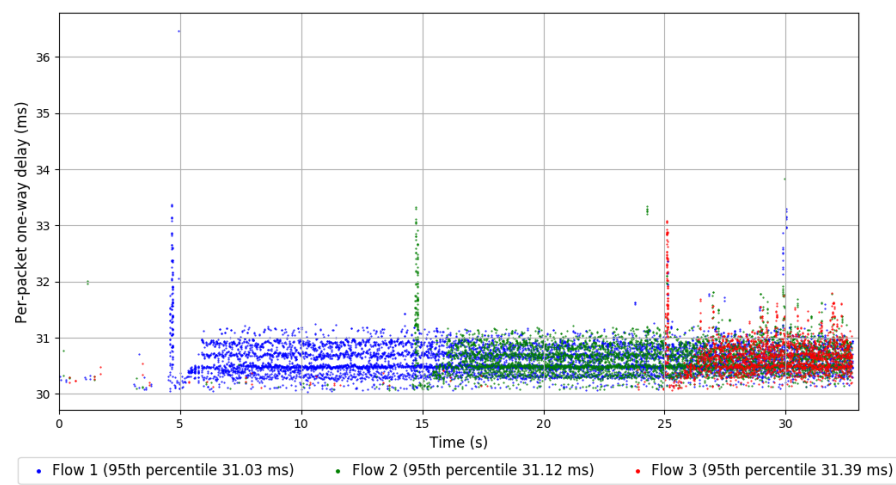
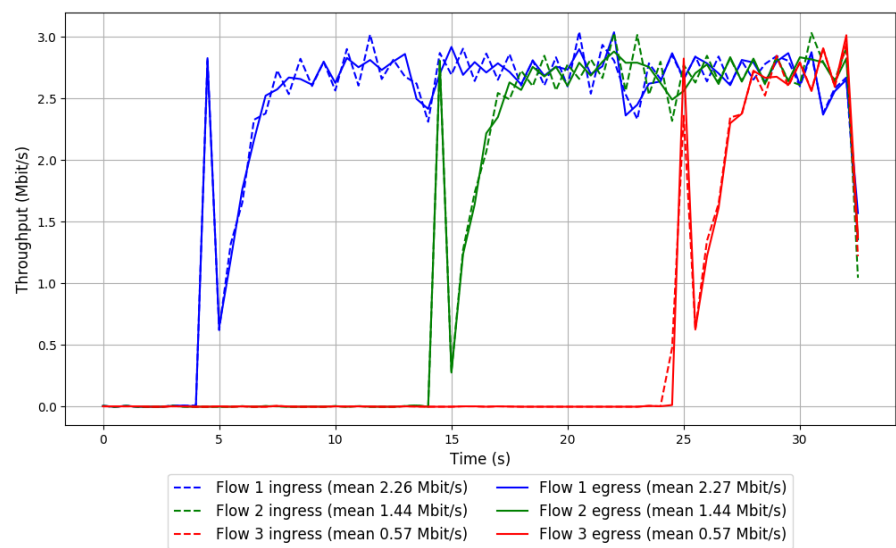
-- Flow 3:

Average throughput: 0.57 Mbit/s

95th percentile per-packet one-way delay: 31.393 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link

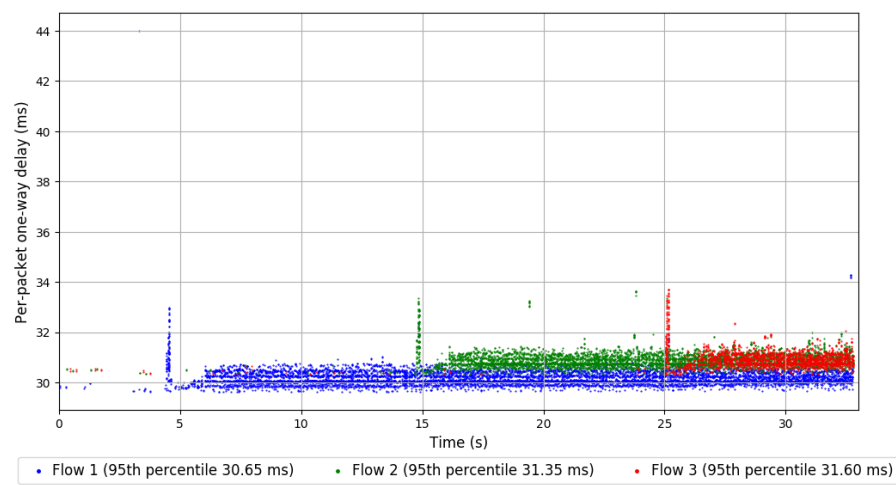
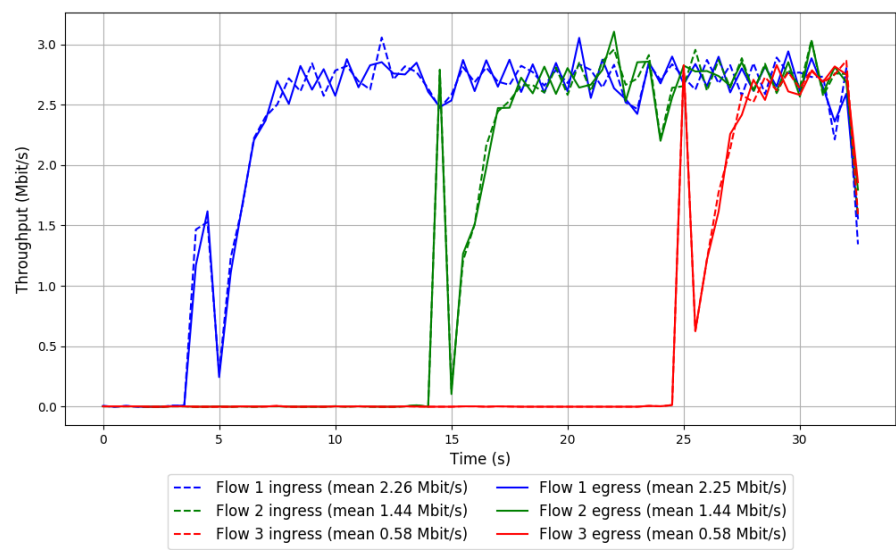


Run 7: Statistics of WebRTC media

Start at: 2018-01-02 13:00:54
End at: 2018-01-02 13:01:24
Local clock offset: 0.932 ms
Remote clock offset: -0.944 ms

Below is generated by plot.py at 2018-01-02 14:48:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 4.25 Mbit/s
95th percentile per-packet one-way delay: 31.241 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 2.25 Mbit/s
95th percentile per-packet one-way delay: 30.646 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 1.44 Mbit/s
95th percentile per-packet one-way delay: 31.346 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.58 Mbit/s
95th percentile per-packet one-way delay: 31.600 ms
Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link

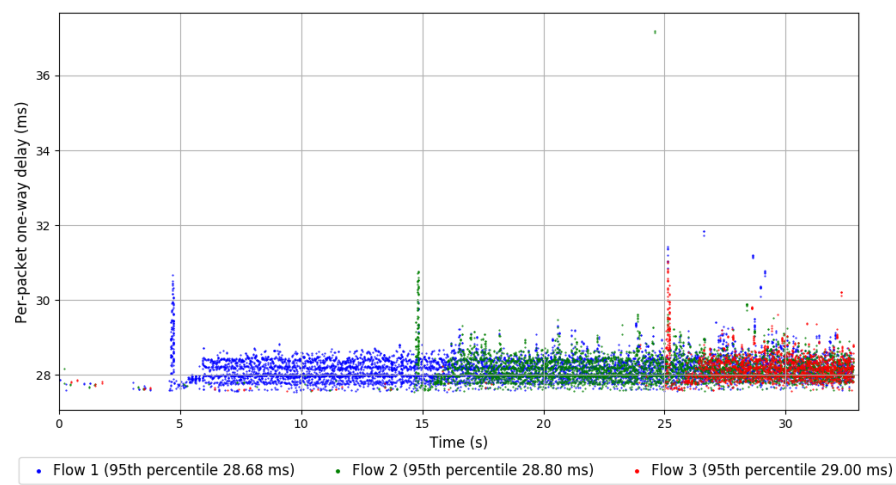
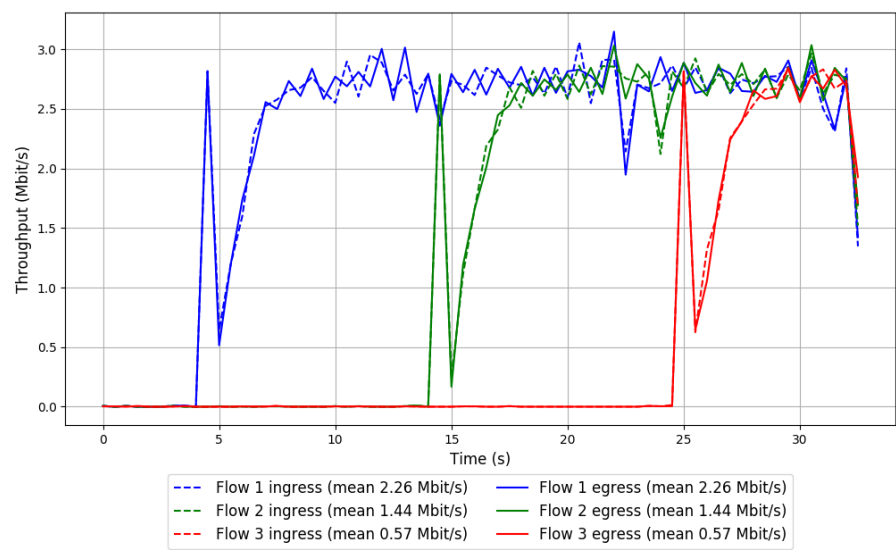


Run 8: Statistics of WebRTC media

Start at: 2018-01-02 13:21:37
End at: 2018-01-02 13:22:07
Local clock offset: 0.845 ms
Remote clock offset: -3.146 ms

Below is generated by plot.py at 2018-01-02 14:48:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 4.25 Mbit/s
95th percentile per-packet one-way delay: 28.758 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 2.26 Mbit/s
95th percentile per-packet one-way delay: 28.677 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.44 Mbit/s
95th percentile per-packet one-way delay: 28.798 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.57 Mbit/s
95th percentile per-packet one-way delay: 28.995 ms
Loss rate: 0.05%

Run 8: Report of WebRTC media — Data Link

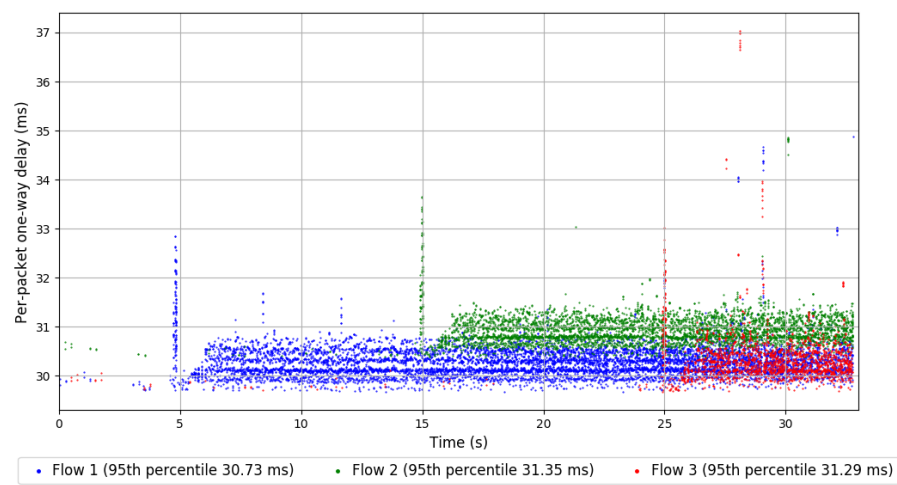
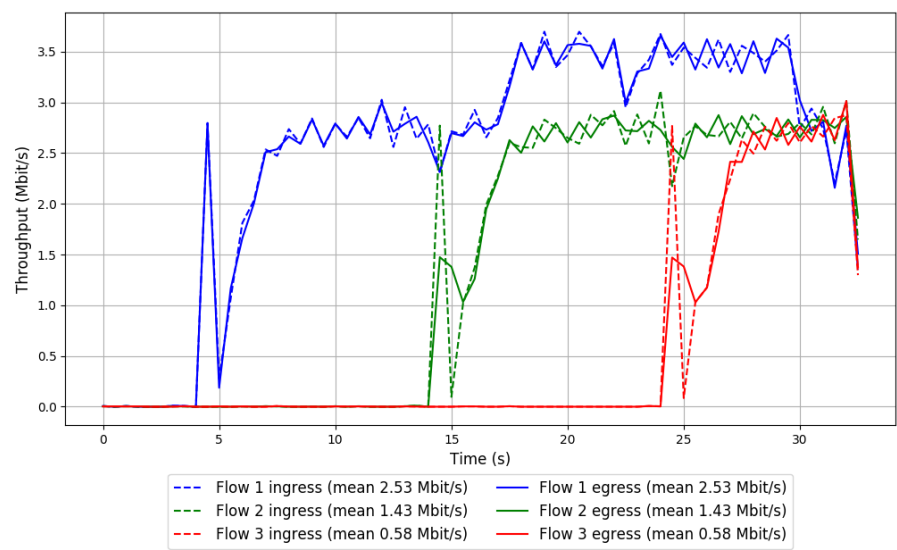


Run 9: Statistics of WebRTC media

Start at: 2018-01-02 13:42:16
End at: 2018-01-02 13:42:46
Local clock offset: 0.676 ms
Remote clock offset: -0.692 ms

Below is generated by plot.py at 2018-01-02 14:48:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 4.52 Mbit/s
95th percentile per-packet one-way delay: 31.234 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 2.53 Mbit/s
95th percentile per-packet one-way delay: 30.729 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 1.43 Mbit/s
95th percentile per-packet one-way delay: 31.352 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.58 Mbit/s
95th percentile per-packet one-way delay: 31.285 ms
Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link

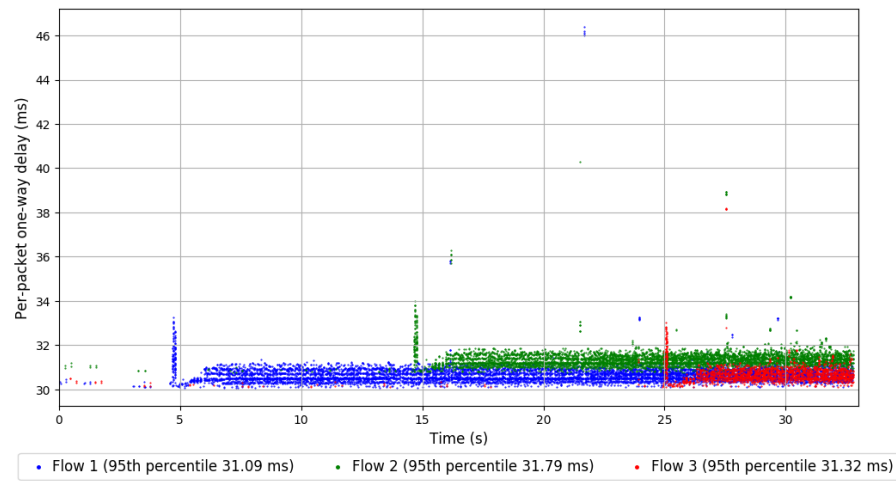
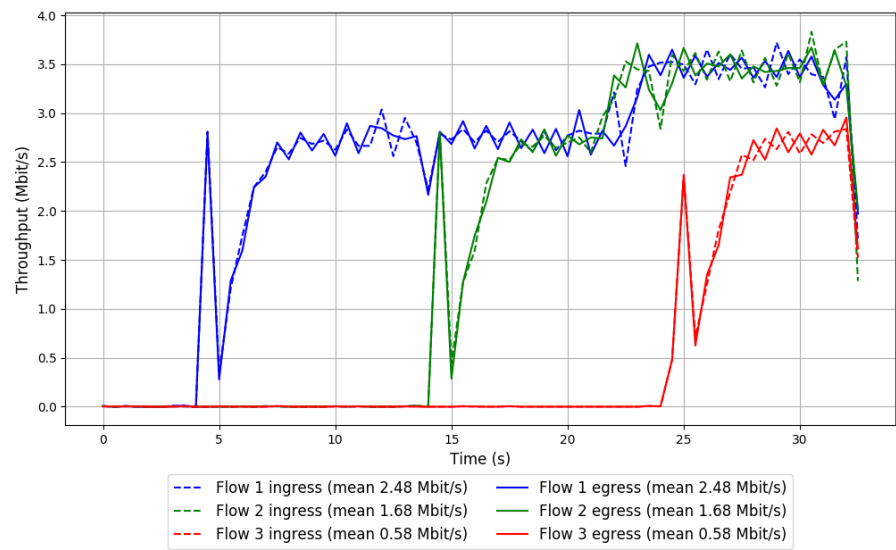


Run 10: Statistics of WebRTC media

Start at: 2018-01-02 14:03:22
End at: 2018-01-02 14:03:52
Local clock offset: 0.459 ms
Remote clock offset: -0.133 ms

Below is generated by plot.py at 2018-01-02 14:48:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 4.71 Mbit/s
95th percentile per-packet one-way delay: 31.631 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 2.48 Mbit/s
95th percentile per-packet one-way delay: 31.093 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 1.68 Mbit/s
95th percentile per-packet one-way delay: 31.789 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 0.58 Mbit/s
95th percentile per-packet one-way delay: 31.324 ms
Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2018-01-02 10:51:39

End at: 2018-01-02 10:52:09

Local clock offset: 0.705 ms

Remote clock offset: 1.11 ms

Below is generated by plot.py at 2018-01-02 14:48:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 31.11 Mbit/s

95th percentile per-packet one-way delay: 35.680 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 15.58 Mbit/s

95th percentile per-packet one-way delay: 35.842 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 15.63 Mbit/s

95th percentile per-packet one-way delay: 35.835 ms

Loss rate: 0.00%

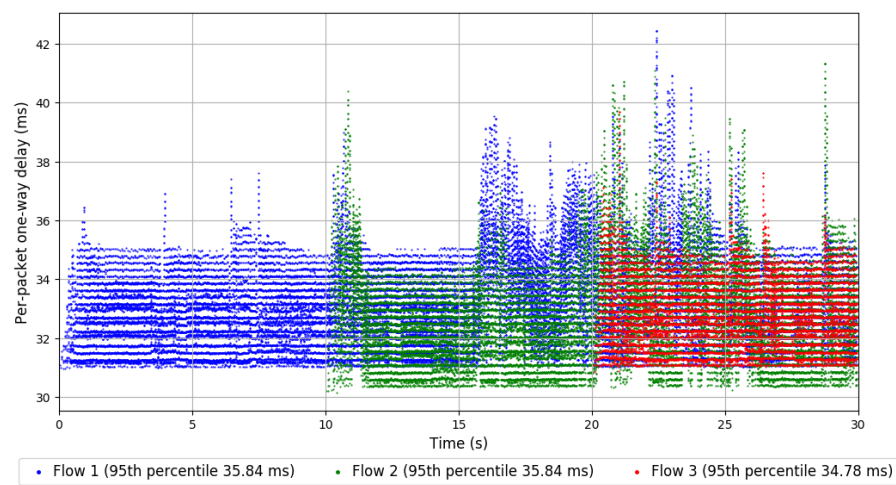
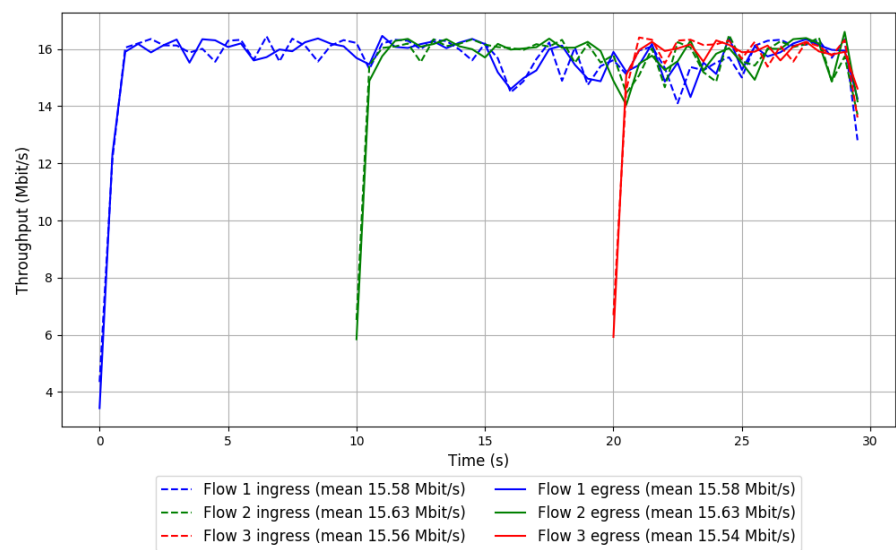
-- Flow 3:

Average throughput: 15.54 Mbit/s

95th percentile per-packet one-way delay: 34.777 ms

Loss rate: 0.08%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-01-02 11:12:34

End at: 2018-01-02 11:13:04

Local clock offset: 0.846 ms

Remote clock offset: 0.663 ms

Below is generated by plot.py at 2018-01-02 14:48:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 30.32 Mbit/s

95th percentile per-packet one-way delay: 38.109 ms

Loss rate: 0.45%

-- Flow 1:

Average throughput: 15.68 Mbit/s

95th percentile per-packet one-way delay: 35.499 ms

Loss rate: 0.41%

-- Flow 2:

Average throughput: 14.96 Mbit/s

95th percentile per-packet one-way delay: 41.000 ms

Loss rate: 0.13%

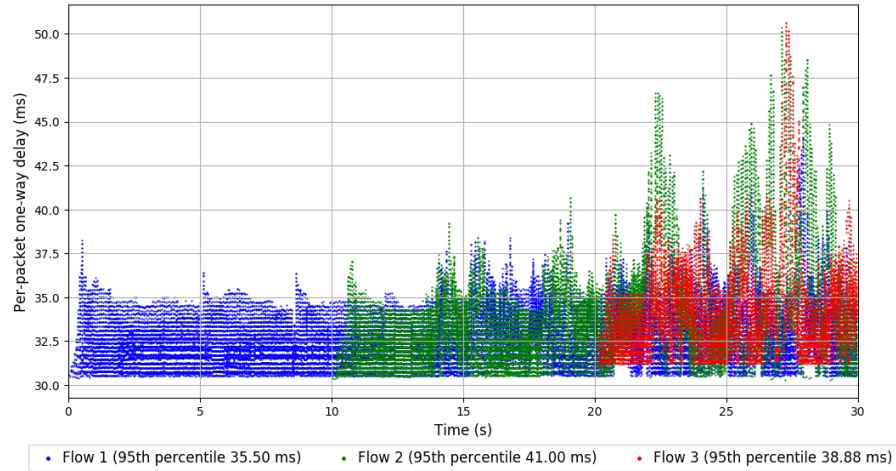
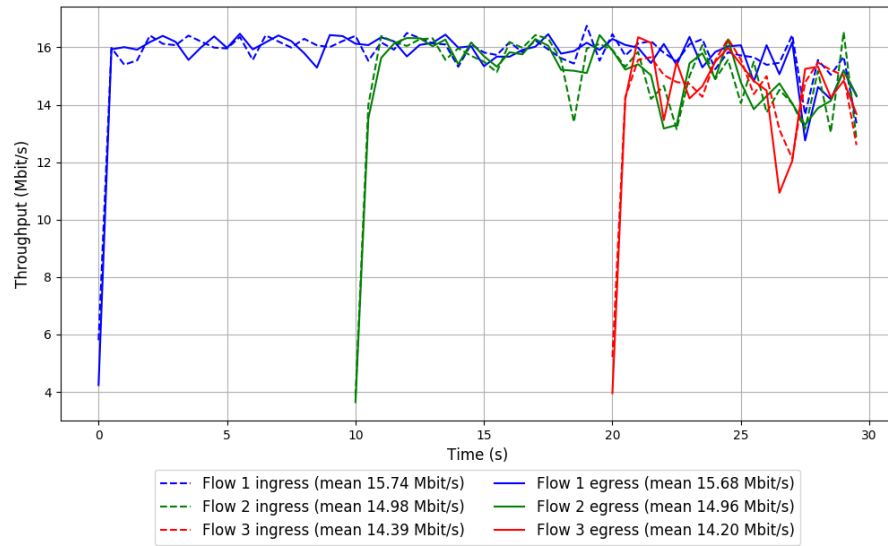
-- Flow 3:

Average throughput: 14.20 Mbit/s

95th percentile per-packet one-way delay: 38.882 ms

Loss rate: 1.28%

Run 2: Report of Sprout — Data Link

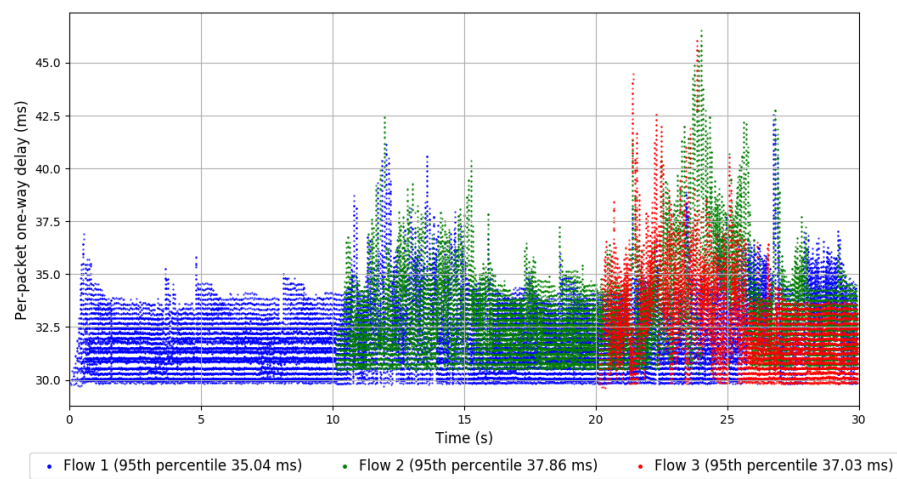
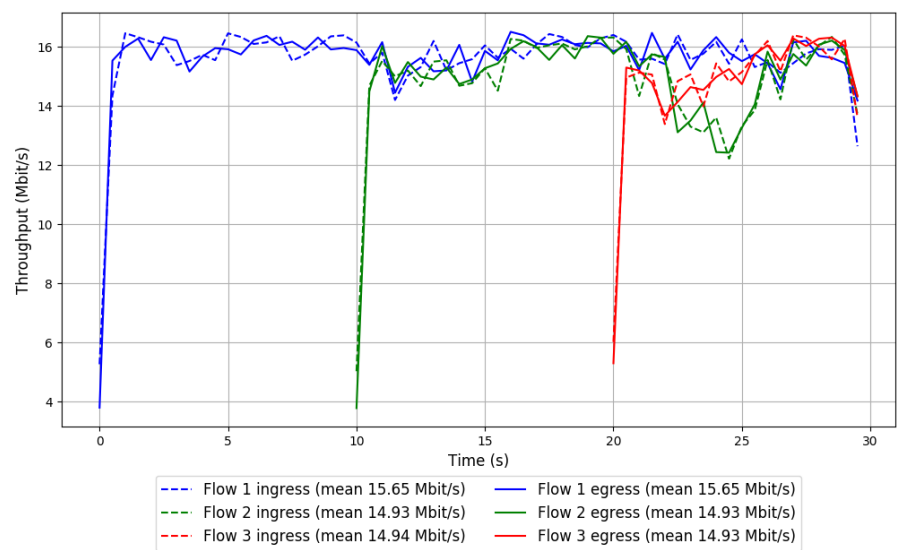


Run 3: Statistics of Sprout

Start at: 2018-01-02 11:33:28
End at: 2018-01-02 11:33:58
Local clock offset: 0.902 ms
Remote clock offset: -0.069 ms

```
# Below is generated by plot.py at 2018-01-02 14:48:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 30.51 Mbit/s
95th percentile per-packet one-way delay: 36.522 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 15.65 Mbit/s
95th percentile per-packet one-way delay: 35.038 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 14.93 Mbit/s
95th percentile per-packet one-way delay: 37.860 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 14.93 Mbit/s
95th percentile per-packet one-way delay: 37.028 ms
Loss rate: 0.00%
```

Run 3: Report of Sprout — Data Link

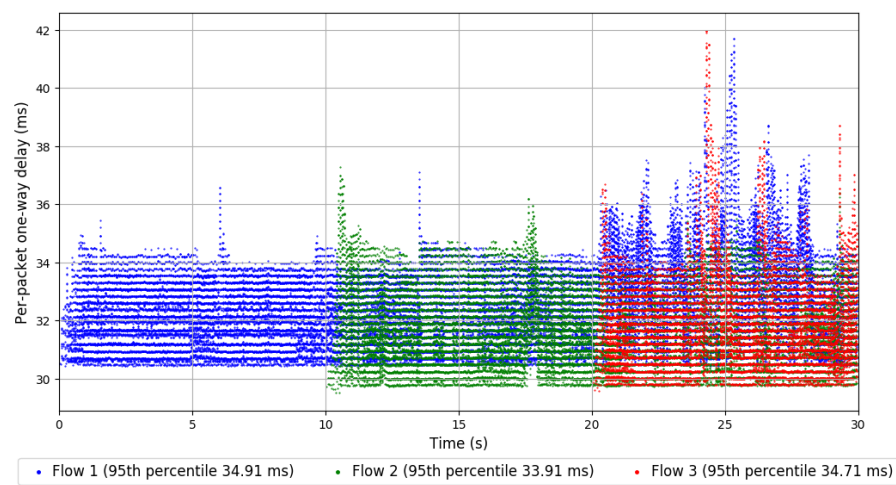
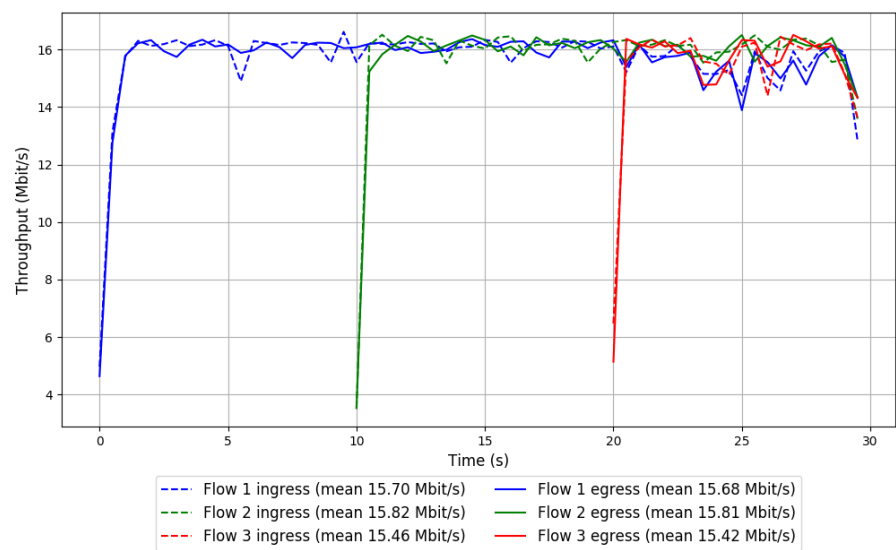


Run 4: Statistics of Sprout

Start at: 2018-01-02 11:54:29
End at: 2018-01-02 11:54:59
Local clock offset: 0.963 ms
Remote clock offset: -0.01 ms

```
# Below is generated by plot.py at 2018-01-02 14:48:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 31.29 Mbit/s
95th percentile per-packet one-way delay: 34.487 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 15.68 Mbit/s
95th percentile per-packet one-way delay: 34.910 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 15.81 Mbit/s
95th percentile per-packet one-way delay: 33.908 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 15.42 Mbit/s
95th percentile per-packet one-way delay: 34.714 ms
Loss rate: 0.26%
```

Run 4: Report of Sprout — Data Link

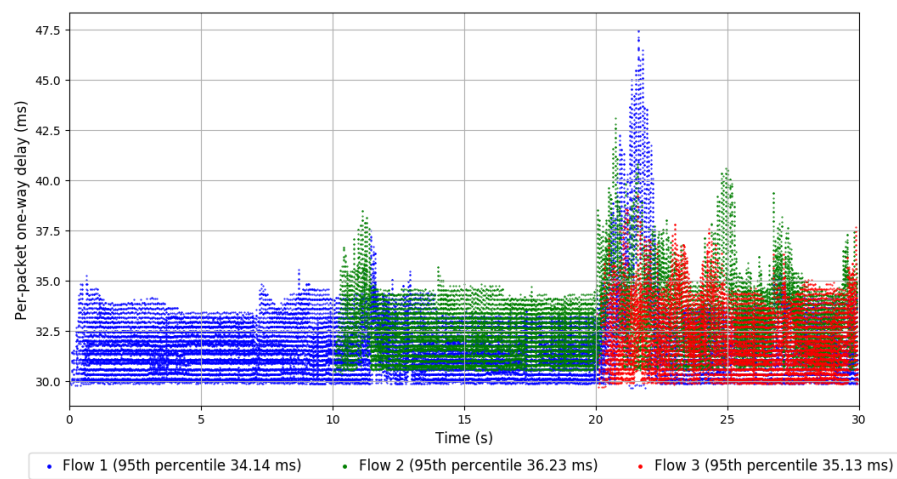
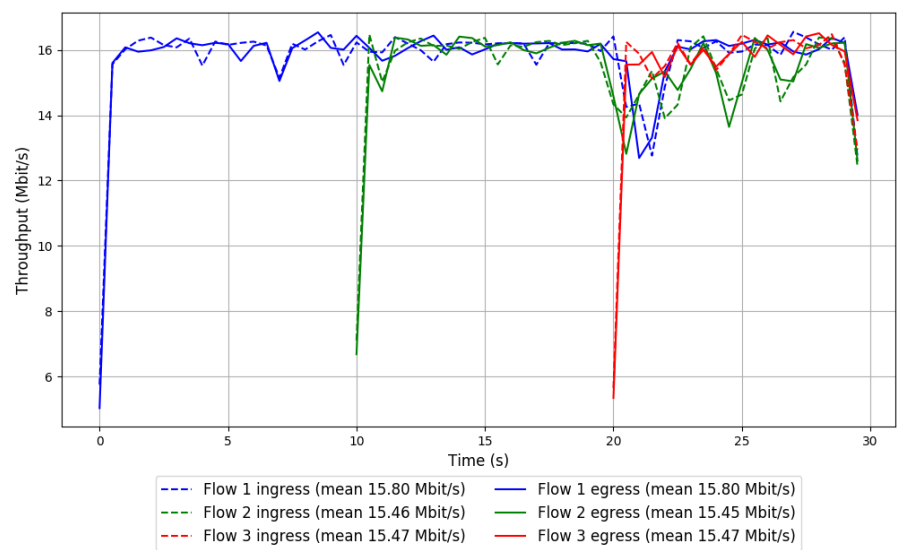


Run 5: Statistics of Sprout

Start at: 2018-01-02 12:15:22
End at: 2018-01-02 12:15:52
Local clock offset: 0.919 ms
Remote clock offset: -0.148 ms

```
# Below is generated by plot.py at 2018-01-02 14:48:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 31.18 Mbit/s
95th percentile per-packet one-way delay: 35.443 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 15.80 Mbit/s
95th percentile per-packet one-way delay: 34.136 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 15.45 Mbit/s
95th percentile per-packet one-way delay: 36.235 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 15.47 Mbit/s
95th percentile per-packet one-way delay: 35.135 ms
Loss rate: 0.00%
```

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

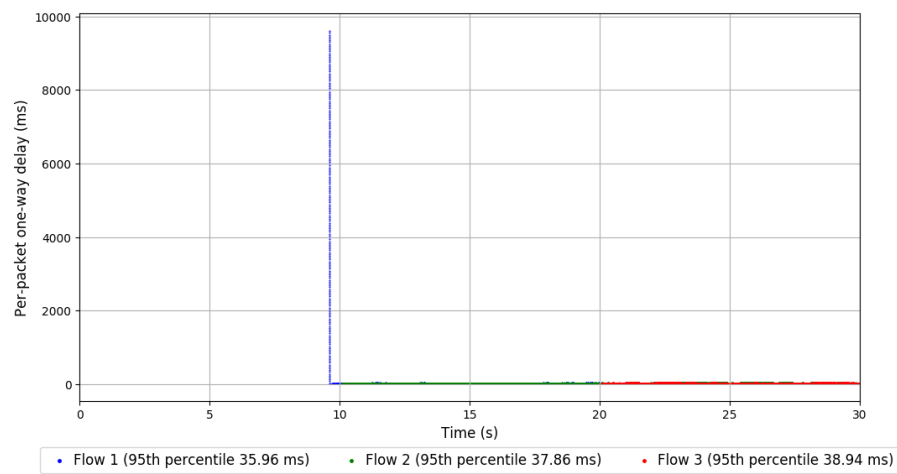
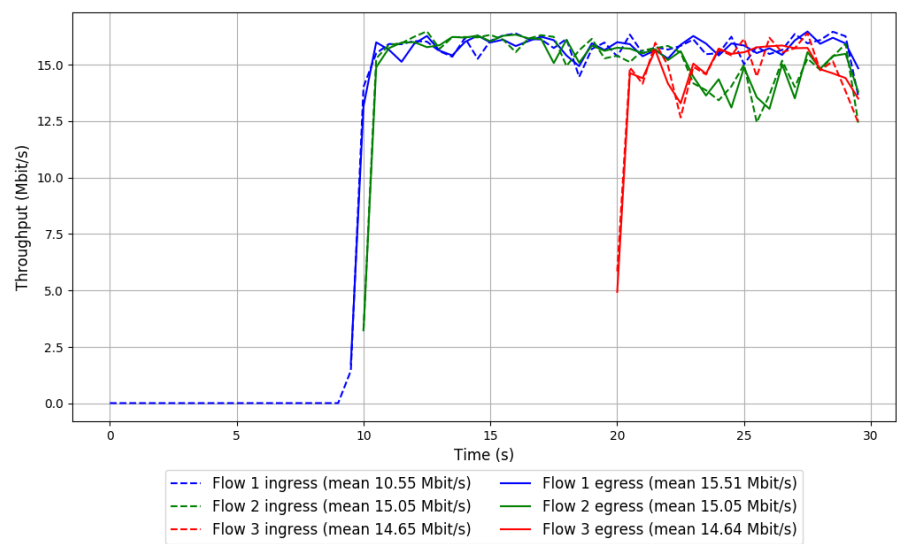
Start at: 2018-01-02 12:36:15

End at: 2018-01-02 12:36:45

Local clock offset: 0.789 ms

Remote clock offset: 0.196 ms

Run 6: Report of Sprout — Data Link

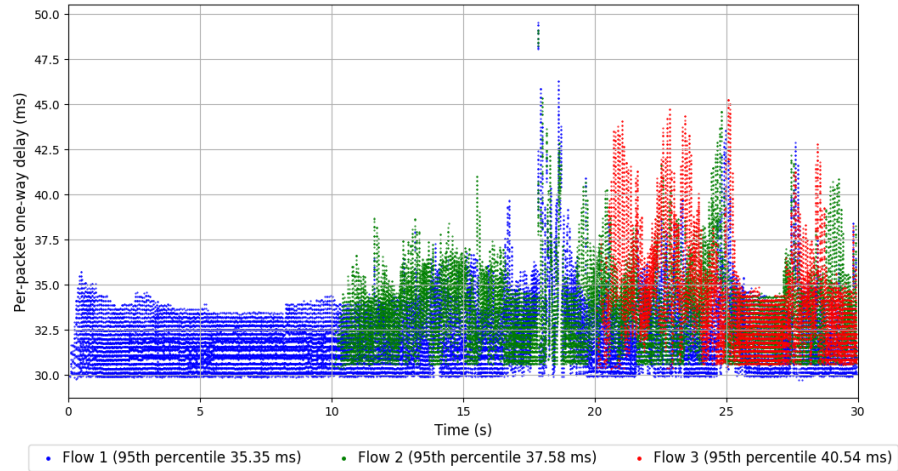
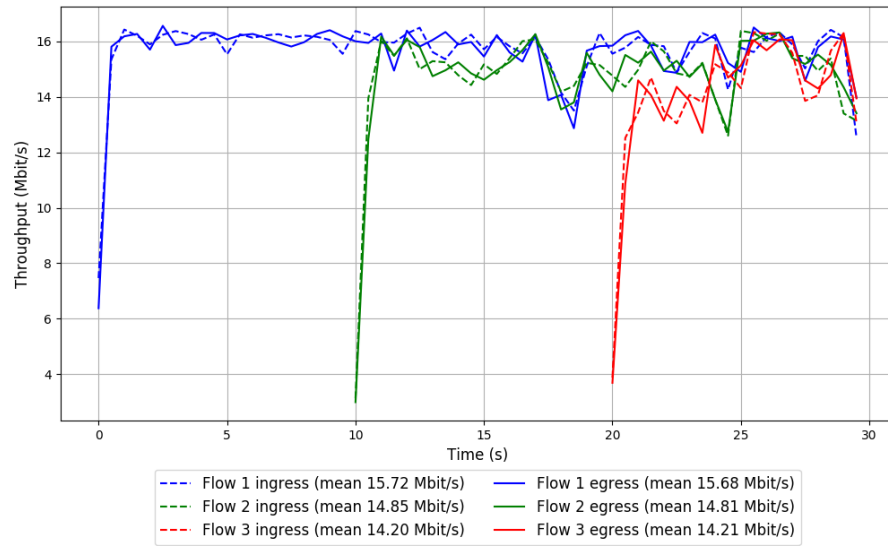


Run 7: Statistics of Sprout

Start at: 2018-01-02 12:56:48
End at: 2018-01-02 12:57:18
Local clock offset: 0.94 ms
Remote clock offset: -0.801 ms

Below is generated by plot.py at 2018-01-02 14:48:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 30.22 Mbit/s
95th percentile per-packet one-way delay: 37.611 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 15.68 Mbit/s
95th percentile per-packet one-way delay: 35.355 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 14.81 Mbit/s
95th percentile per-packet one-way delay: 37.580 ms
Loss rate: 0.27%
-- Flow 3:
Average throughput: 14.21 Mbit/s
95th percentile per-packet one-way delay: 40.542 ms
Loss rate: 0.00%

Run 7: Report of Sprout — Data Link

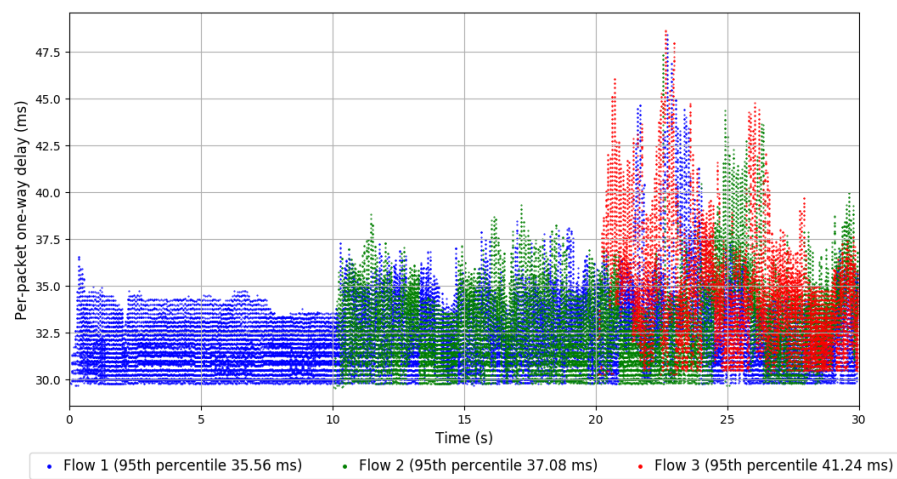
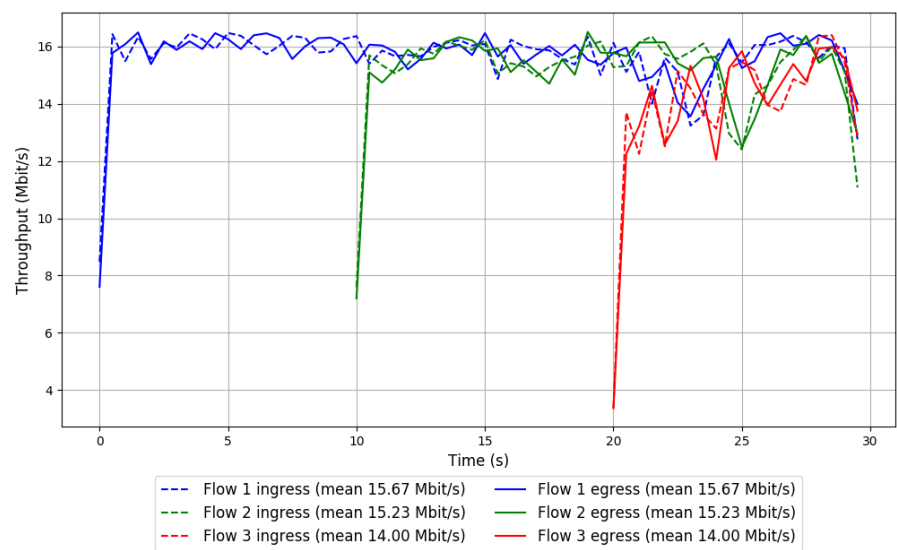


Run 8: Statistics of Sprout

Start at: 2018-01-02 13:17:30
End at: 2018-01-02 13:18:00
Local clock offset: 0.963 ms
Remote clock offset: -1.089 ms

Below is generated by plot.py at 2018-01-02 14:48:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 30.42 Mbit/s
95th percentile per-packet one-way delay: 37.469 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 15.67 Mbit/s
95th percentile per-packet one-way delay: 35.565 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 15.23 Mbit/s
95th percentile per-packet one-way delay: 37.080 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 14.00 Mbit/s
95th percentile per-packet one-way delay: 41.236 ms
Loss rate: 0.00%

Run 8: Report of Sprout — Data Link

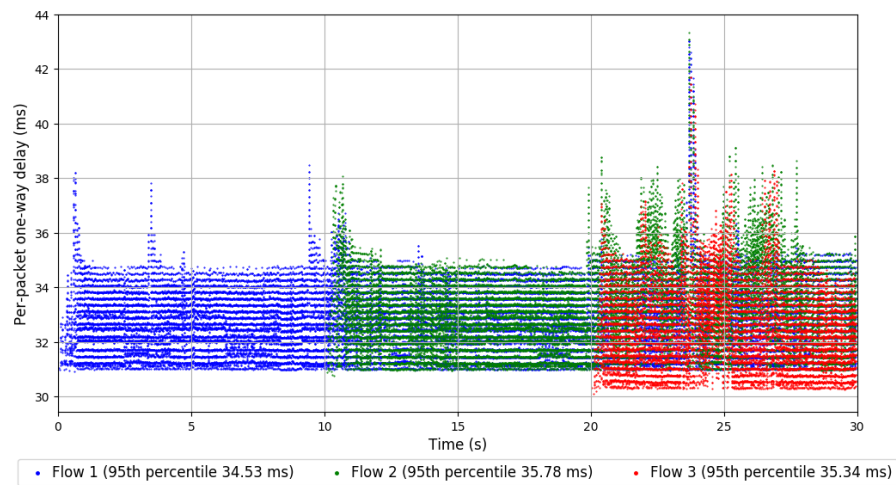
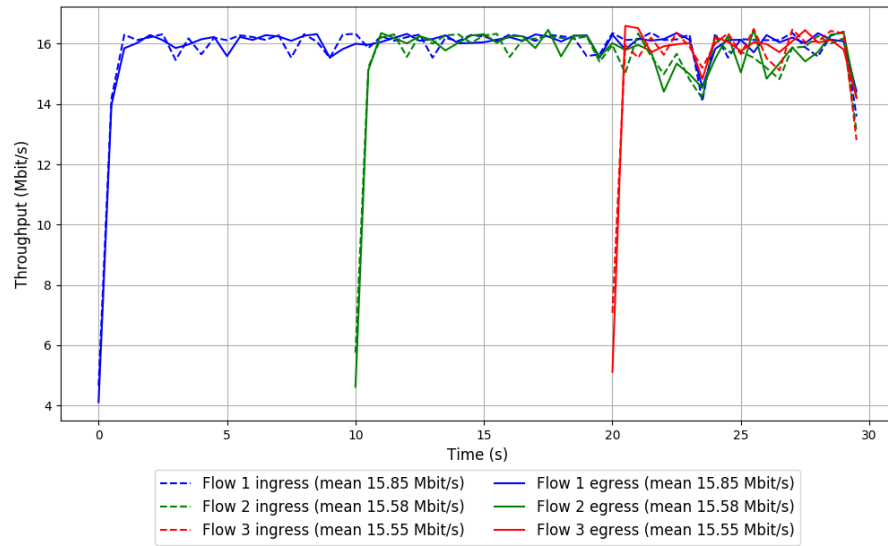


Run 9: Statistics of Sprout

Start at: 2018-01-02 13:38:11
End at: 2018-01-02 13:38:41
Local clock offset: 0.749 ms
Remote clock offset: -0.388 ms

Below is generated by plot.py at 2018-01-02 14:48:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 31.35 Mbit/s
95th percentile per-packet one-way delay: 35.075 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 15.85 Mbit/s
95th percentile per-packet one-way delay: 34.527 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 15.58 Mbit/s
95th percentile per-packet one-way delay: 35.777 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 15.55 Mbit/s
95th percentile per-packet one-way delay: 35.345 ms
Loss rate: 0.00%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

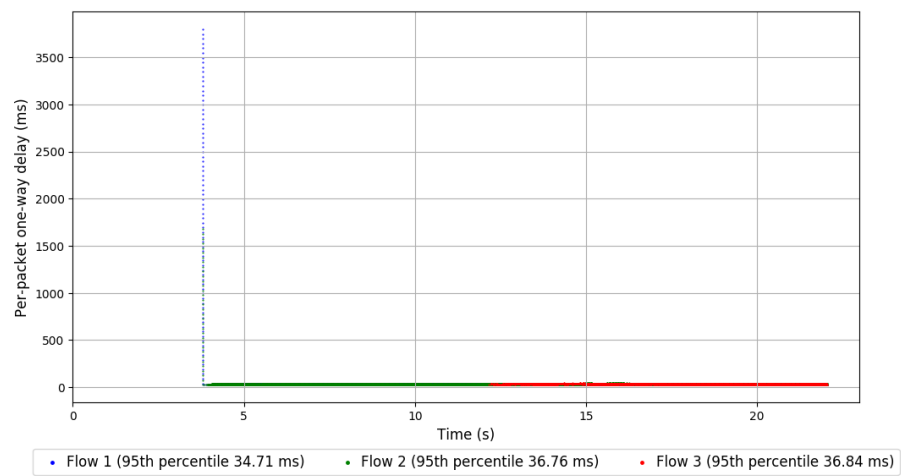
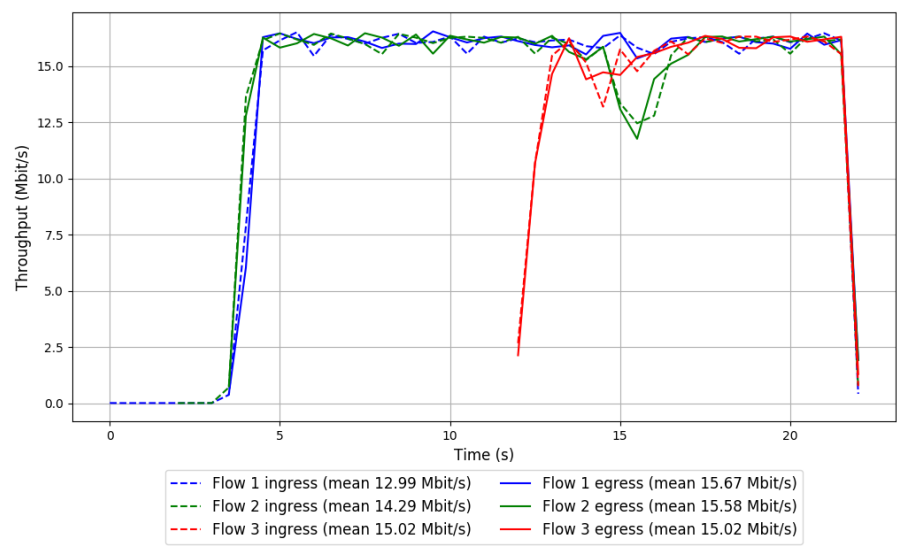
Start at: 2018-01-02 13:59:12

End at: 2018-01-02 13:59:42

Local clock offset: 0.44 ms

Remote clock offset: -0.145 ms

Run 10: Report of Sprout — Data Link

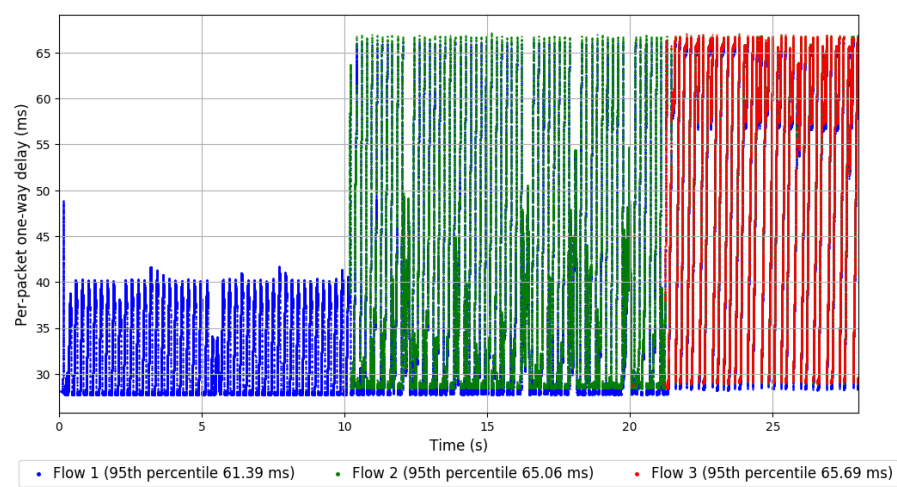
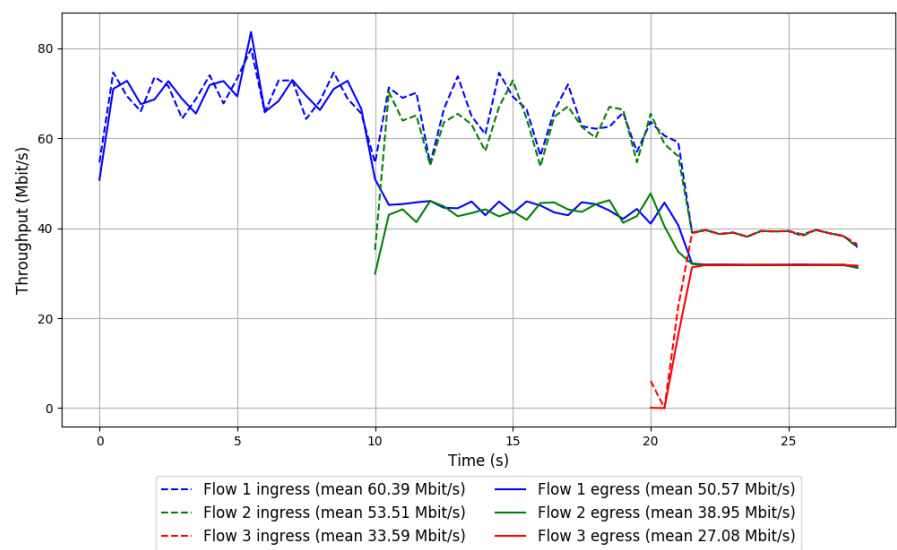


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-01-02 11:05:33
End at: 2018-01-02 11:06:03
Local clock offset: 0.802 ms
Remote clock offset: -1.967 ms

# Below is generated by plot.py at 2018-01-02 14:50:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 83.26 Mbit/s
95th percentile per-packet one-way delay: 64.155 ms
Loss rate: 20.15%
-- Flow 1:
Average throughput: 50.57 Mbit/s
95th percentile per-packet one-way delay: 61.393 ms
Loss rate: 16.25%
-- Flow 2:
Average throughput: 38.95 Mbit/s
95th percentile per-packet one-way delay: 65.056 ms
Loss rate: 27.21%
-- Flow 3:
Average throughput: 27.08 Mbit/s
95th percentile per-packet one-way delay: 65.692 ms
Loss rate: 19.38%
```

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



Run 2: Statistics of TaoVA-100x

Start at: 2018-01-02 11:26:14

End at: 2018-01-02 11:26:44

Local clock offset: 0.957 ms

Remote clock offset: 0.568 ms

Below is generated by plot.py at 2018-01-02 14:50:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.82 Mbit/s

95th percentile per-packet one-way delay: 67.828 ms

Loss rate: 18.34%

-- Flow 1:

Average throughput: 52.12 Mbit/s

95th percentile per-packet one-way delay: 65.149 ms

Loss rate: 14.44%

-- Flow 2:

Average throughput: 38.75 Mbit/s

95th percentile per-packet one-way delay: 68.162 ms

Loss rate: 25.54%

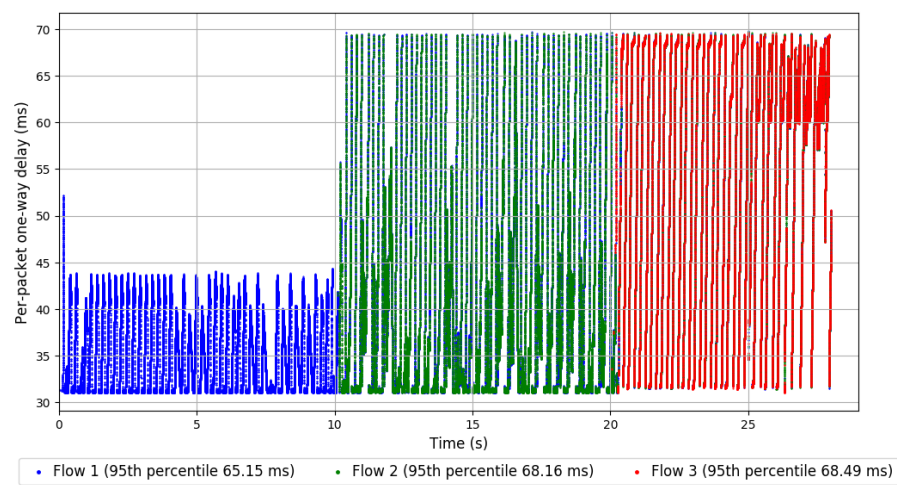
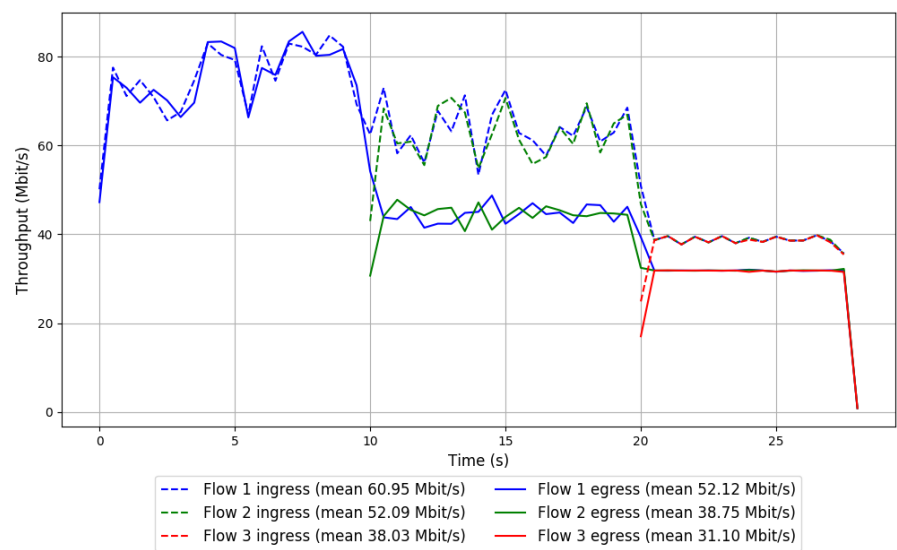
-- Flow 3:

Average throughput: 31.10 Mbit/s

95th percentile per-packet one-way delay: 68.489 ms

Loss rate: 18.03%

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

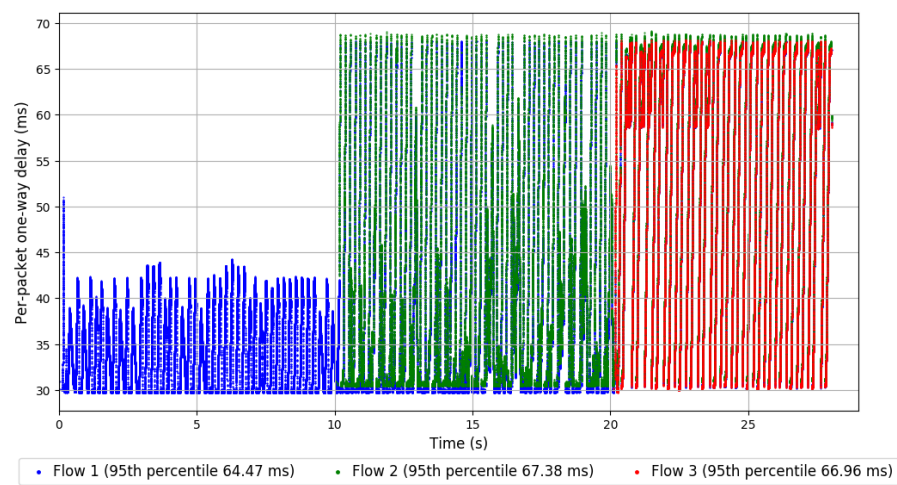
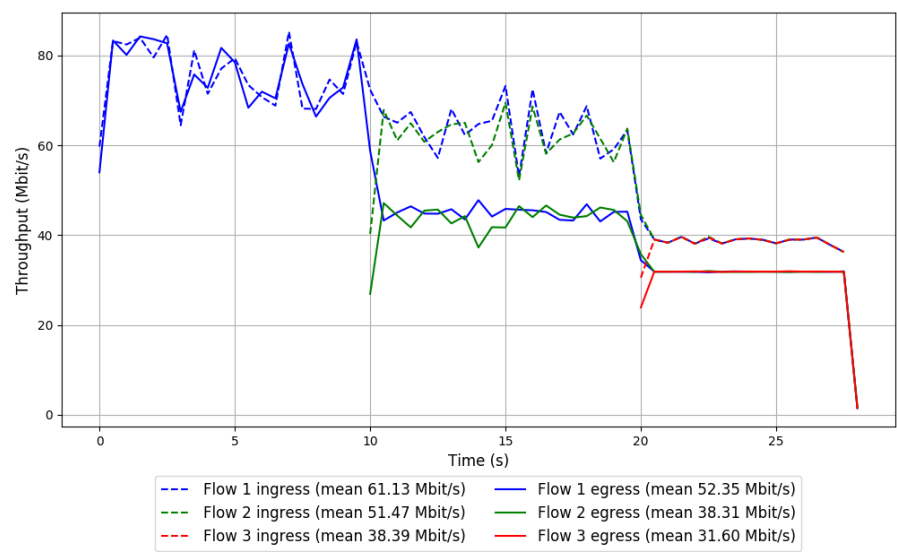


Run 3: Statistics of TaoVA-100x

Start at: 2018-01-02 11:47:21
End at: 2018-01-02 11:47:51
Local clock offset: 0.992 ms
Remote clock offset: -0.049 ms

Below is generated by plot.py at 2018-01-02 14:50:49
Datalink statistics
-- Total of 3 flows:
Average throughput: 85.95 Mbit/s
95th percentile per-packet one-way delay: 66.689 ms
Loss rate: 18.12%
-- Flow 1:
Average throughput: 52.35 Mbit/s
95th percentile per-packet one-way delay: 64.473 ms
Loss rate: 14.27%
-- Flow 2:
Average throughput: 38.31 Mbit/s
95th percentile per-packet one-way delay: 67.383 ms
Loss rate: 25.46%
-- Flow 3:
Average throughput: 31.60 Mbit/s
95th percentile per-packet one-way delay: 66.958 ms
Loss rate: 17.47%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-01-02 12:08:13

End at: 2018-01-02 12:08:43

Local clock offset: 0.922 ms

Remote clock offset: 0.37 ms

Below is generated by plot.py at 2018-01-02 14:50:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 83.64 Mbit/s

95th percentile per-packet one-way delay: 67.613 ms

Loss rate: 18.70%

-- Flow 1:

Average throughput: 50.07 Mbit/s

95th percentile per-packet one-way delay: 65.216 ms

Loss rate: 14.85%

-- Flow 2:

Average throughput: 38.53 Mbit/s

95th percentile per-packet one-way delay: 68.122 ms

Loss rate: 25.67%

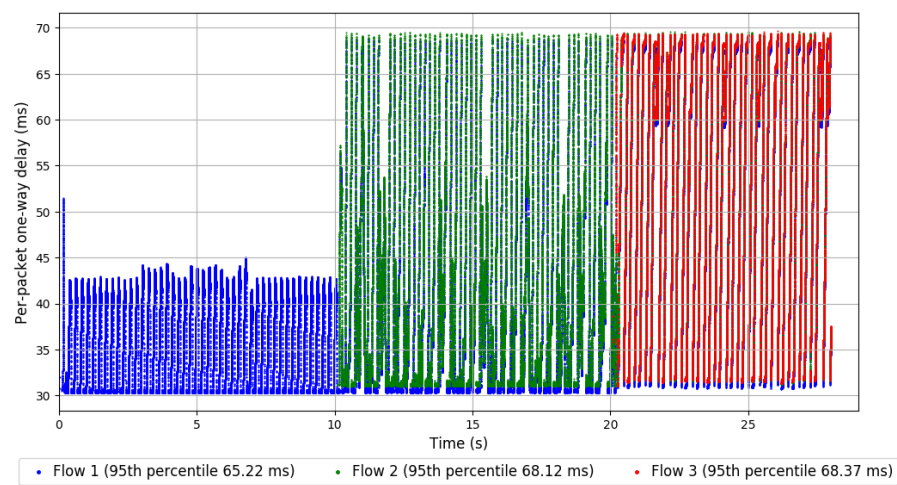
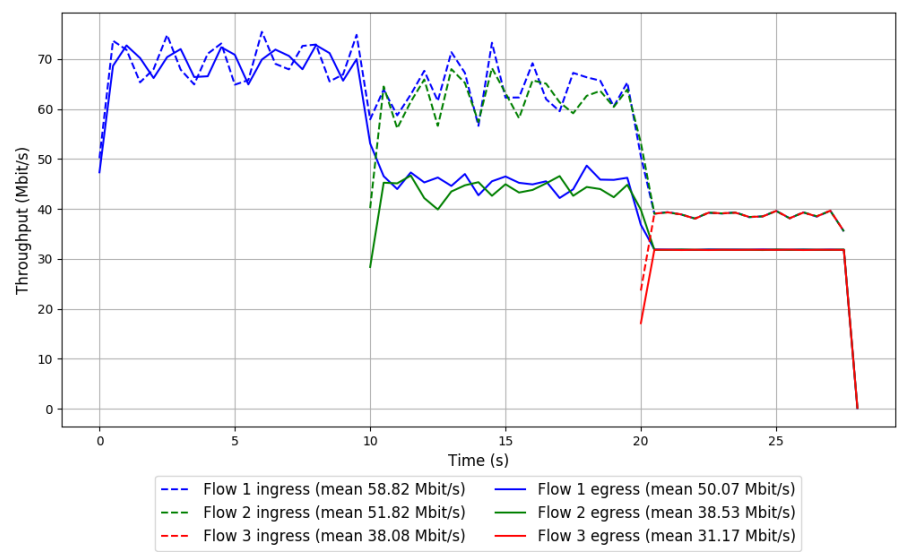
-- Flow 3:

Average throughput: 31.17 Mbit/s

95th percentile per-packet one-way delay: 68.374 ms

Loss rate: 18.16%

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

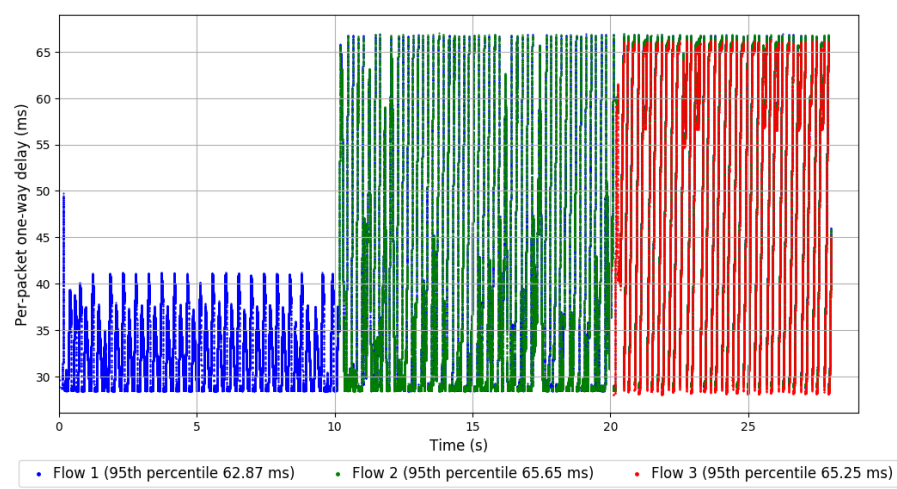
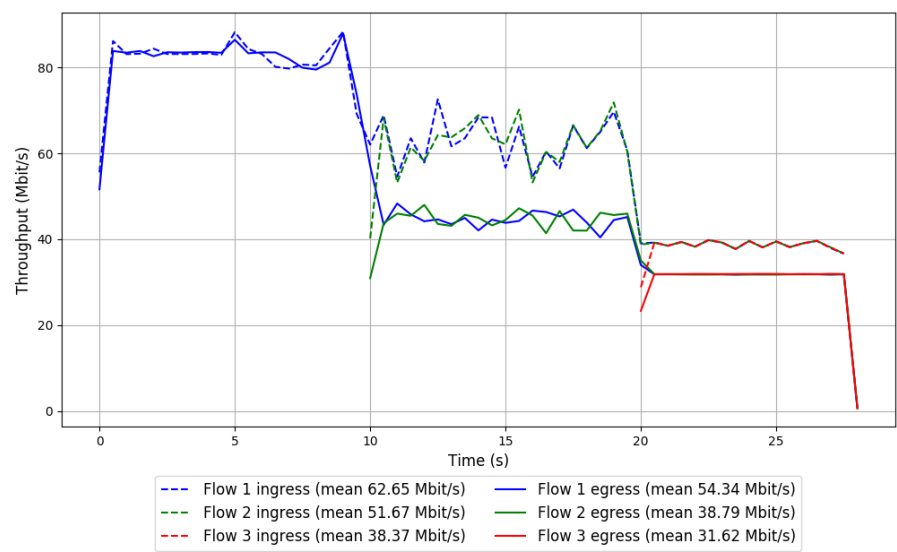


Run 5: Statistics of TaoVA-100x

Start at: 2018-01-02 12:29:09
End at: 2018-01-02 12:29:39
Local clock offset: 0.879 ms
Remote clock offset: -2.312 ms

Below is generated by plot.py at 2018-01-02 14:50:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 88.23 Mbit/s
95th percentile per-packet one-way delay: 65.039 ms
Loss rate: 17.28%
-- Flow 1:
Average throughput: 54.34 Mbit/s
95th percentile per-packet one-way delay: 62.870 ms
Loss rate: 13.21%
-- Flow 2:
Average throughput: 38.79 Mbit/s
95th percentile per-packet one-way delay: 65.654 ms
Loss rate: 24.87%
-- Flow 3:
Average throughput: 31.62 Mbit/s
95th percentile per-packet one-way delay: 65.247 ms
Loss rate: 17.58%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-01-02 12:49:51

End at: 2018-01-02 12:50:21

Local clock offset: 0.886 ms

Remote clock offset: -2.67 ms

Below is generated by plot.py at 2018-01-02 14:50:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 83.90 Mbit/s

95th percentile per-packet one-way delay: 64.983 ms

Loss rate: 18.71%

-- Flow 1:

Average throughput: 50.79 Mbit/s

95th percentile per-packet one-way delay: 62.599 ms

Loss rate: 14.78%

-- Flow 2:

Average throughput: 39.57 Mbit/s

95th percentile per-packet one-way delay: 65.486 ms

Loss rate: 25.41%

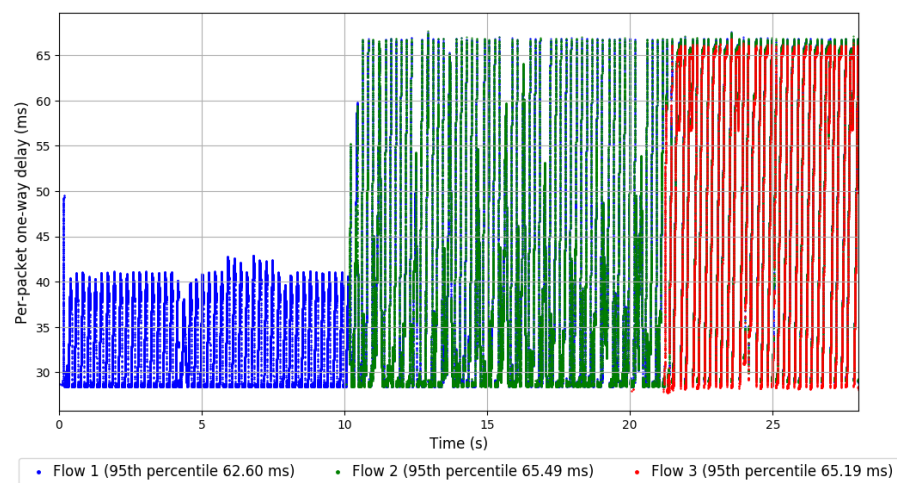
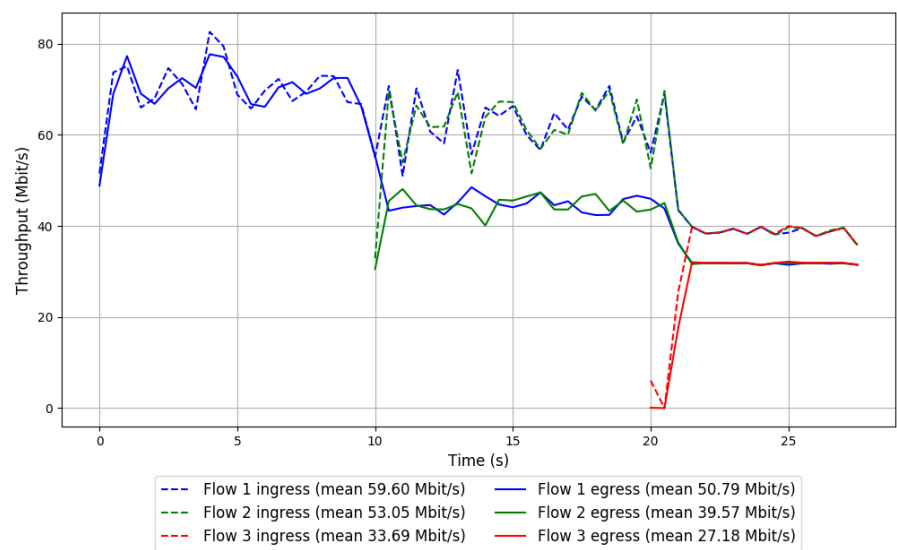
-- Flow 3:

Average throughput: 27.18 Mbit/s

95th percentile per-packet one-way delay: 65.186 ms

Loss rate: 19.34%

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

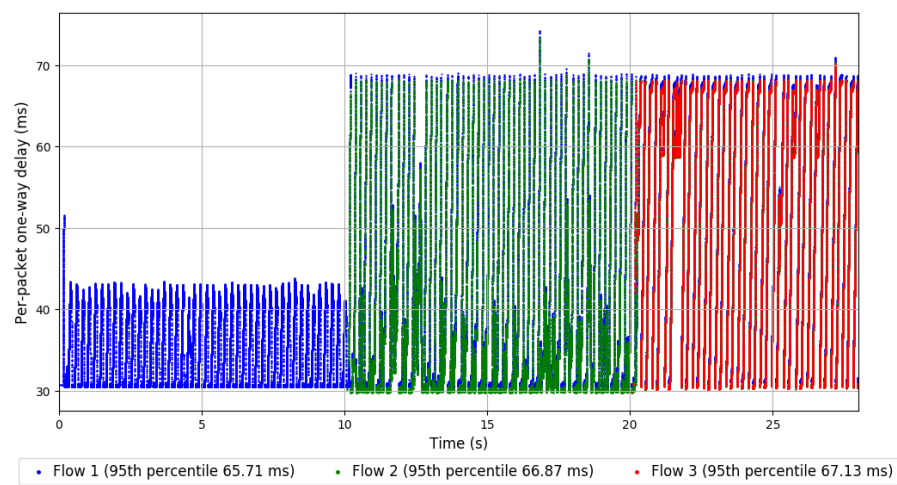
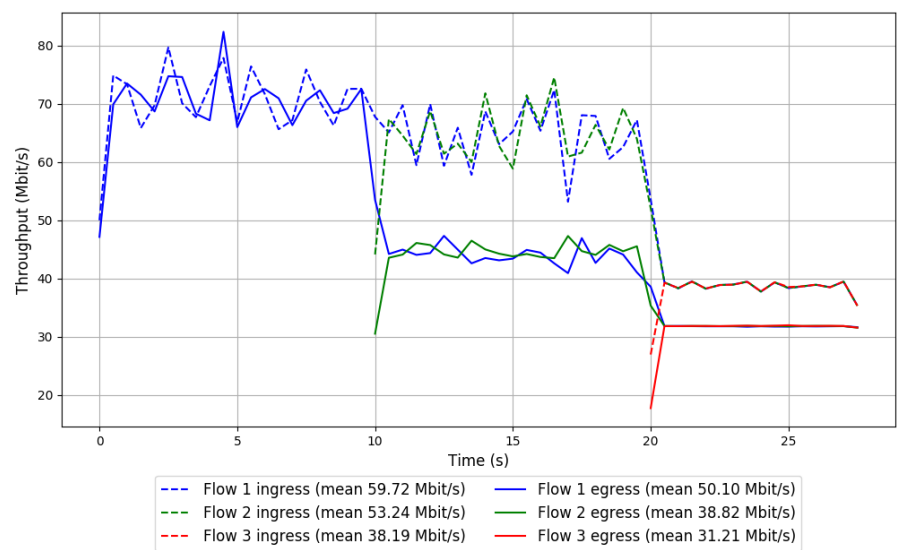


Run 7: Statistics of TaoVA-100x

Start at: 2018-01-02 13:10:32
End at: 2018-01-02 13:11:02
Local clock offset: 0.969 ms
Remote clock offset: -1.063 ms

Below is generated by plot.py at 2018-01-02 14:50:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 83.88 Mbit/s
95th percentile per-packet one-way delay: 66.895 ms
Loss rate: 19.92%
-- Flow 1:
Average throughput: 50.10 Mbit/s
95th percentile per-packet one-way delay: 65.708 ms
Loss rate: 16.11%
-- Flow 2:
Average throughput: 38.82 Mbit/s
95th percentile per-packet one-way delay: 66.869 ms
Loss rate: 27.11%
-- Flow 3:
Average throughput: 31.21 Mbit/s
95th percentile per-packet one-way delay: 67.126 ms
Loss rate: 18.27%

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

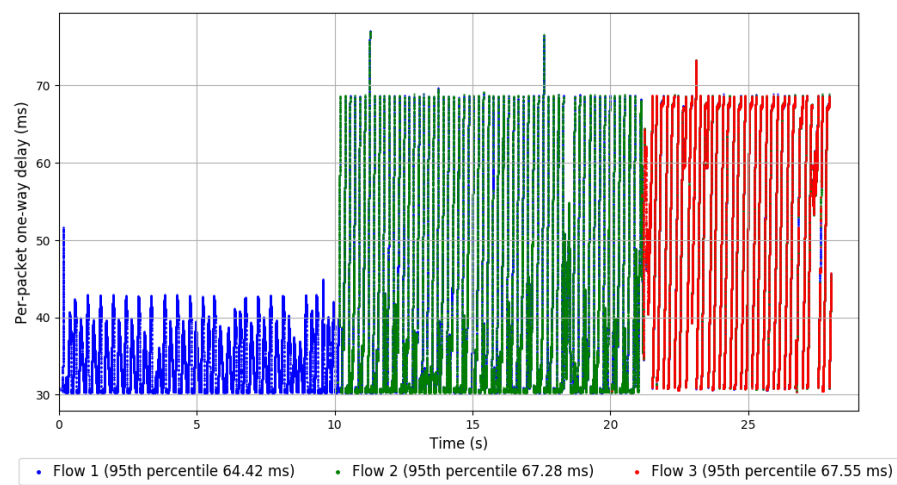
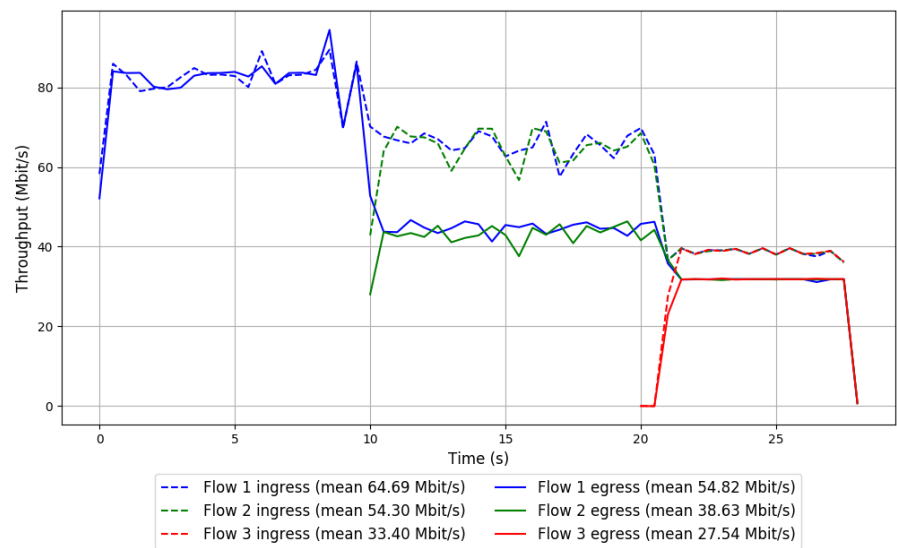


Run 8: Statistics of TaoVA-100x

Start at: 2018-01-02 13:31:07
End at: 2018-01-02 13:31:37
Local clock offset: 0.917 ms
Remote clock offset: -0.399 ms

Below is generated by plot.py at 2018-01-02 14:51:02
Datalink statistics
-- Total of 3 flows:
Average throughput: 87.45 Mbit/s
95th percentile per-packet one-way delay: 67.116 ms
Loss rate: 19.75%
-- Flow 1:
Average throughput: 54.82 Mbit/s
95th percentile per-packet one-way delay: 64.419 ms
Loss rate: 15.23%
-- Flow 2:
Average throughput: 38.63 Mbit/s
95th percentile per-packet one-way delay: 67.282 ms
Loss rate: 28.80%
-- Flow 3:
Average throughput: 27.54 Mbit/s
95th percentile per-packet one-way delay: 67.545 ms
Loss rate: 17.38%

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

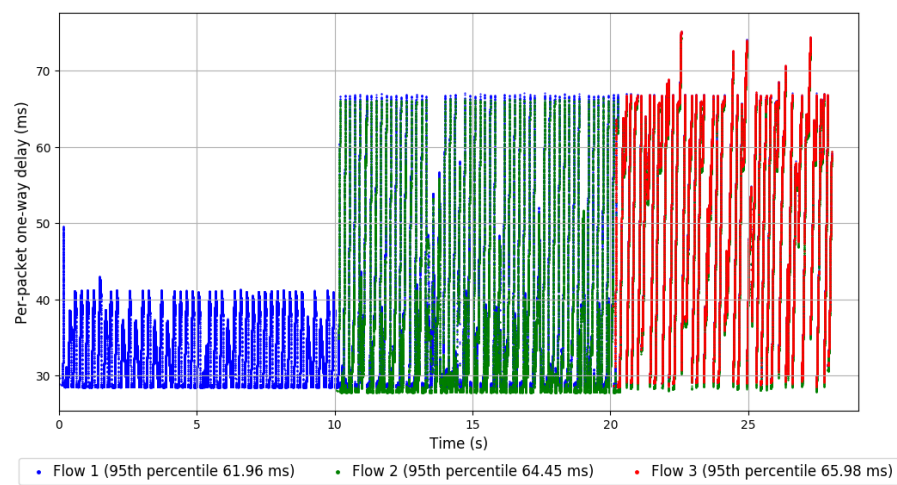
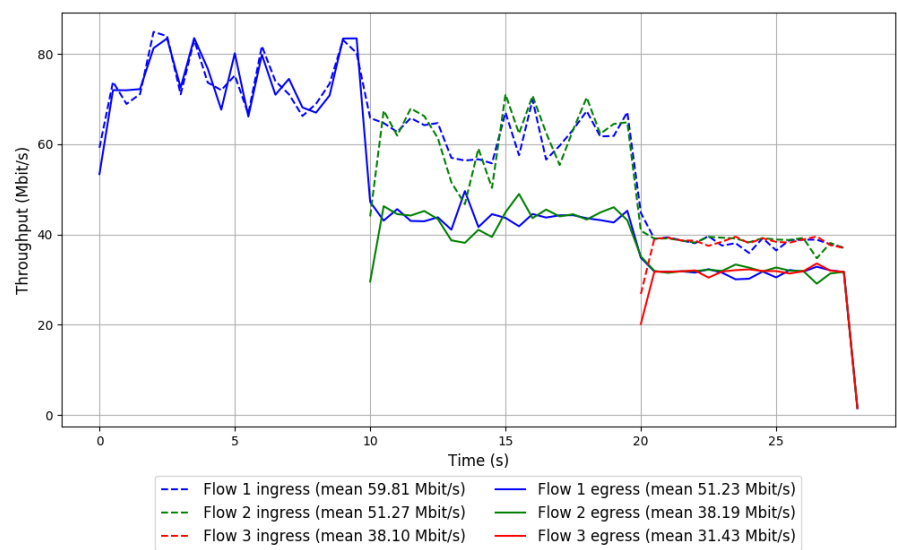


Run 9: Statistics of TaoVA-100x

Start at: 2018-01-02 13:51:53
End at: 2018-01-02 13:52:23
Local clock offset: 0.519 ms
Remote clock offset: -2.667 ms

Below is generated by plot.py at 2018-01-02 14:52:46
Datalink statistics
-- Total of 3 flows:
Average throughput: 84.70 Mbit/s
95th percentile per-packet one-way delay: 64.048 ms
Loss rate: 18.11%
-- Flow 1:
Average throughput: 51.23 Mbit/s
95th percentile per-packet one-way delay: 61.958 ms
Loss rate: 14.26%
-- Flow 2:
Average throughput: 38.19 Mbit/s
95th percentile per-packet one-way delay: 64.453 ms
Loss rate: 25.38%
-- Flow 3:
Average throughput: 31.43 Mbit/s
95th percentile per-packet one-way delay: 65.985 ms
Loss rate: 17.31%

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

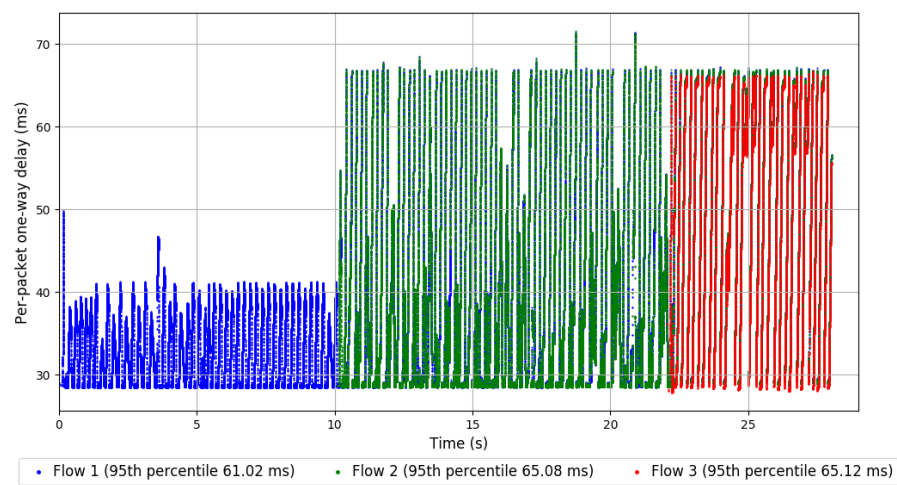
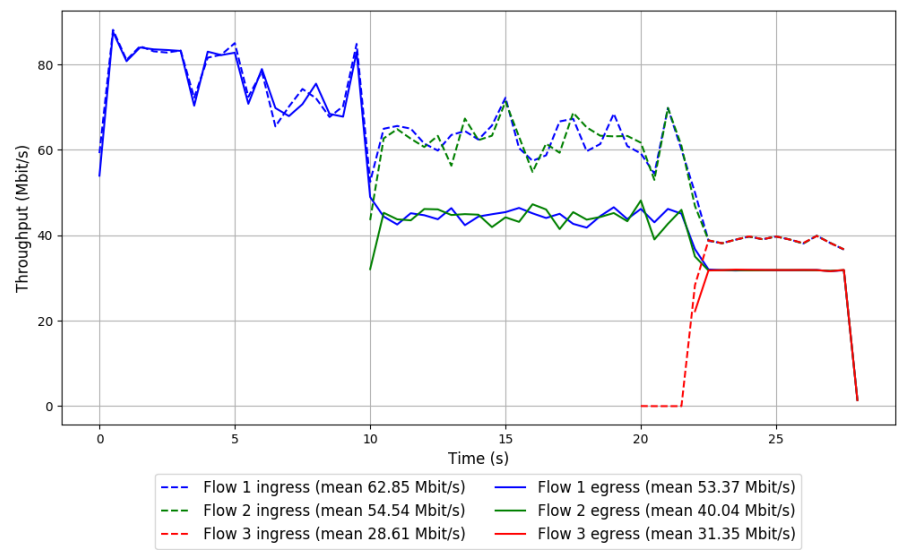


Run 10: Statistics of TaoVA-100x

Start at: 2018-01-02 14:13:10
End at: 2018-01-02 14:13:40
Local clock offset: 0.506 ms
Remote clock offset: -2.833 ms

Below is generated by plot.py at 2018-01-02 14:52:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 85.75 Mbit/s
95th percentile per-packet one-way delay: 64.039 ms
Loss rate: 19.02%
-- Flow 1:
Average throughput: 53.37 Mbit/s
95th percentile per-packet one-way delay: 61.017 ms
Loss rate: 15.00%
-- Flow 2:
Average throughput: 40.04 Mbit/s
95th percentile per-packet one-way delay: 65.081 ms
Loss rate: 26.52%
-- Flow 3:
Average throughput: 31.35 Mbit/s
95th percentile per-packet one-way delay: 65.118 ms
Loss rate: 17.77%

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



Run 1: Statistics of TCP Vegas

Start at: 2018-01-02 11:02:45

End at: 2018-01-02 11:03:15

Local clock offset: 0.767 ms

Remote clock offset: 0.762 ms

Below is generated by plot.py at 2018-01-02 14:52:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.84 Mbit/s

95th percentile per-packet one-way delay: 51.816 ms

Loss rate: 0.48%

-- Flow 1:

Average throughput: 53.03 Mbit/s

95th percentile per-packet one-way delay: 52.755 ms

Loss rate: 0.65%

-- Flow 2:

Average throughput: 54.50 Mbit/s

95th percentile per-packet one-way delay: 36.635 ms

Loss rate: 0.29%

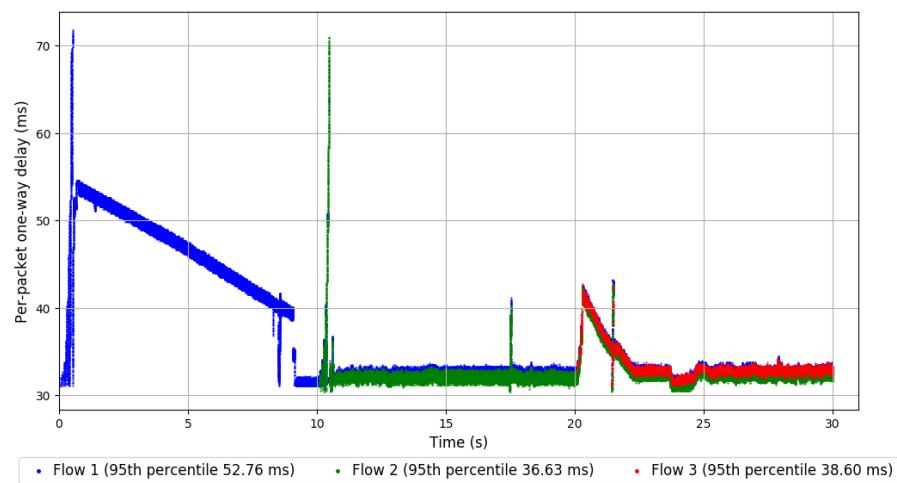
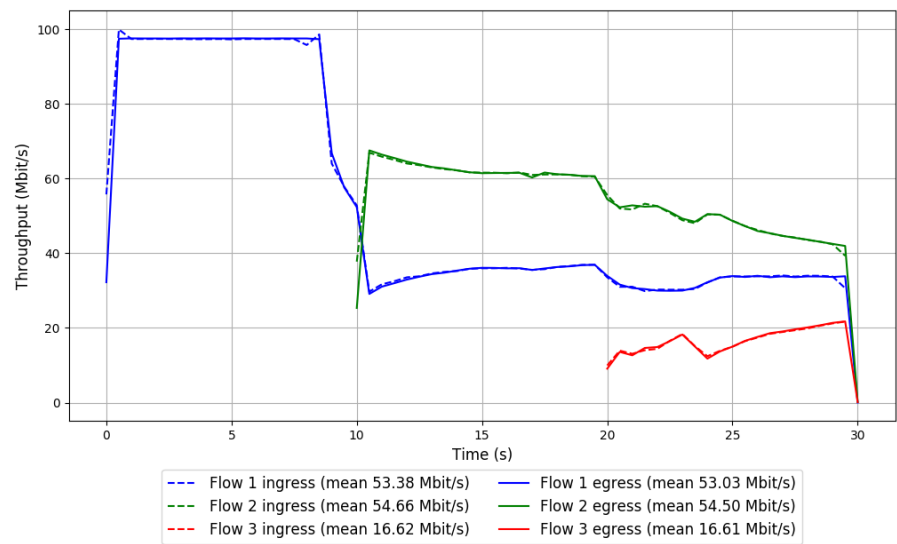
-- Flow 3:

Average throughput: 16.61 Mbit/s

95th percentile per-packet one-way delay: 38.600 ms

Loss rate: 0.05%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-01-02 11:23:30

End at: 2018-01-02 11:24:00

Local clock offset: 0.877 ms

Remote clock offset: 0.021 ms

Below is generated by plot.py at 2018-01-02 14:52:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 72.43 Mbit/s

95th percentile per-packet one-way delay: 37.965 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 14.91 Mbit/s

95th percentile per-packet one-way delay: 2247.444 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 80.94 Mbit/s

95th percentile per-packet one-way delay: 37.835 ms

Loss rate: 0.06%

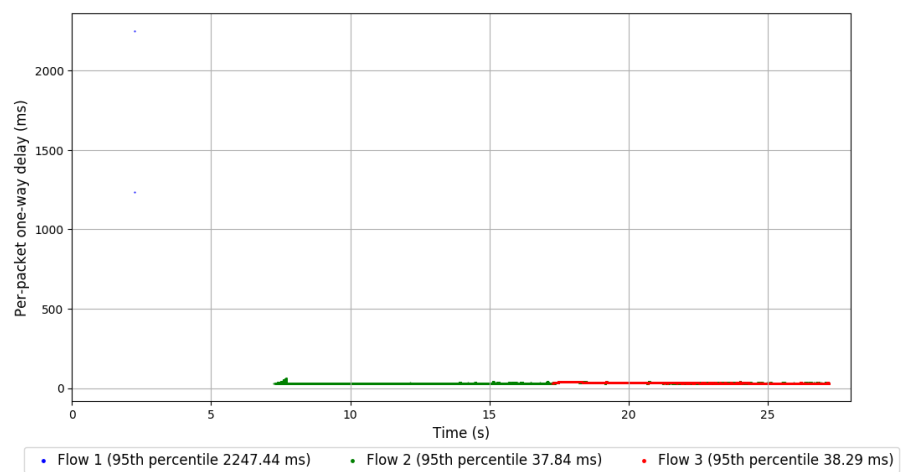
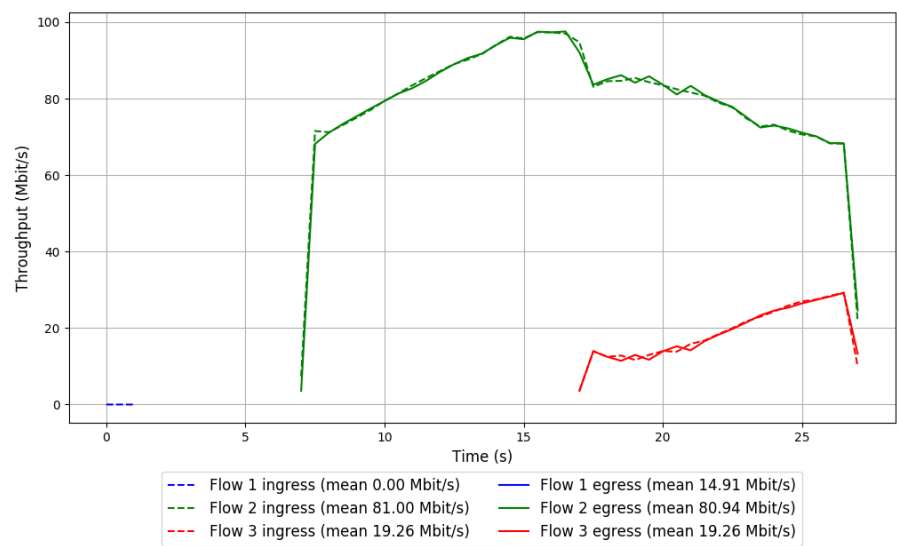
-- Flow 3:

Average throughput: 19.26 Mbit/s

95th percentile per-packet one-way delay: 38.294 ms

Loss rate: 0.00%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-01-02 11:44:34

End at: 2018-01-02 11:45:04

Local clock offset: 0.904 ms

Remote clock offset: 0.109 ms

Below is generated by plot.py at 2018-01-02 14:52:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.58 Mbit/s

95th percentile per-packet one-way delay: 44.556 ms

Loss rate: 0.54%

-- Flow 1:

Average throughput: 71.34 Mbit/s

95th percentile per-packet one-way delay: 44.984 ms

Loss rate: 0.72%

-- Flow 2:

Average throughput: 24.84 Mbit/s

95th percentile per-packet one-way delay: 45.663 ms

Loss rate: 0.00%

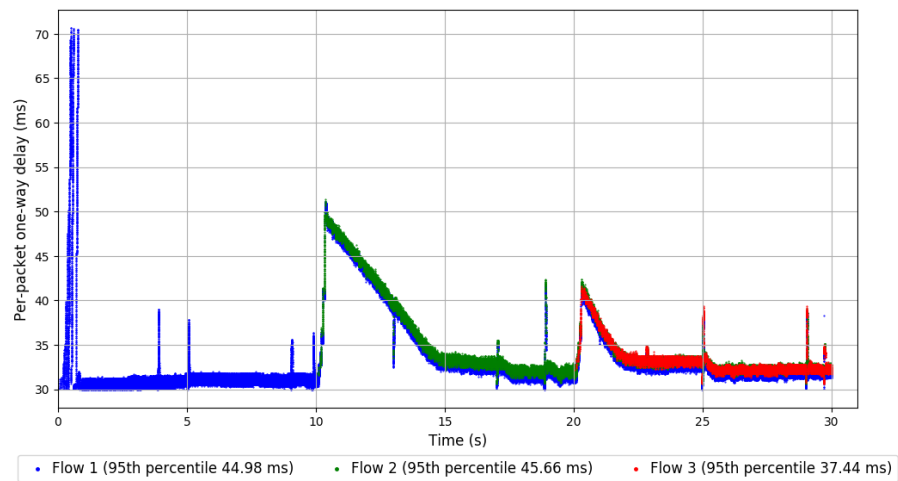
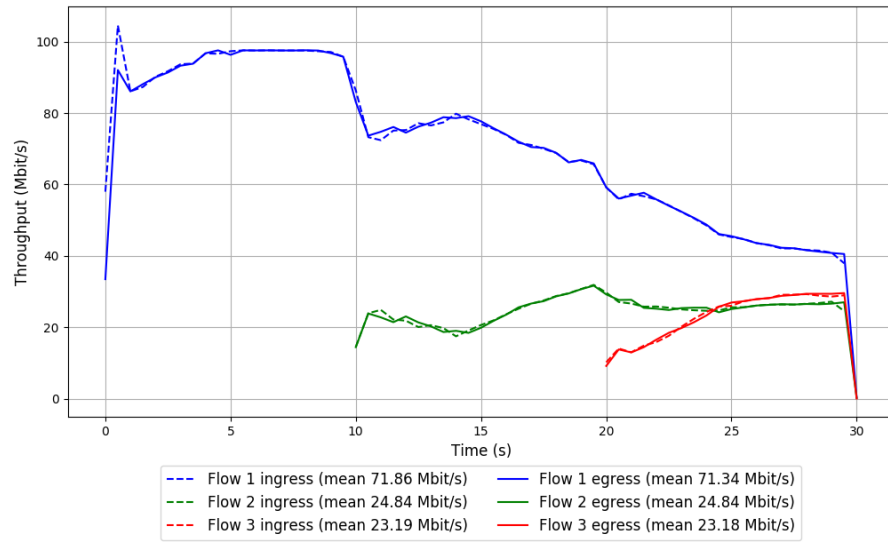
-- Flow 3:

Average throughput: 23.18 Mbit/s

95th percentile per-packet one-way delay: 37.436 ms

Loss rate: 0.00%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-01-02 12:05:28

End at: 2018-01-02 12:05:58

Local clock offset: 0.995 ms

Remote clock offset: 0.078 ms

Below is generated by plot.py at 2018-01-02 14:52:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 78.12 Mbit/s

95th percentile per-packet one-way delay: 37.496 ms

Loss rate: 0.21%

-- Flow 1:

Average throughput: 35.38 Mbit/s

95th percentile per-packet one-way delay: 38.769 ms

Loss rate: 0.25%

-- Flow 2:

Average throughput: 54.12 Mbit/s

95th percentile per-packet one-way delay: 37.074 ms

Loss rate: 0.21%

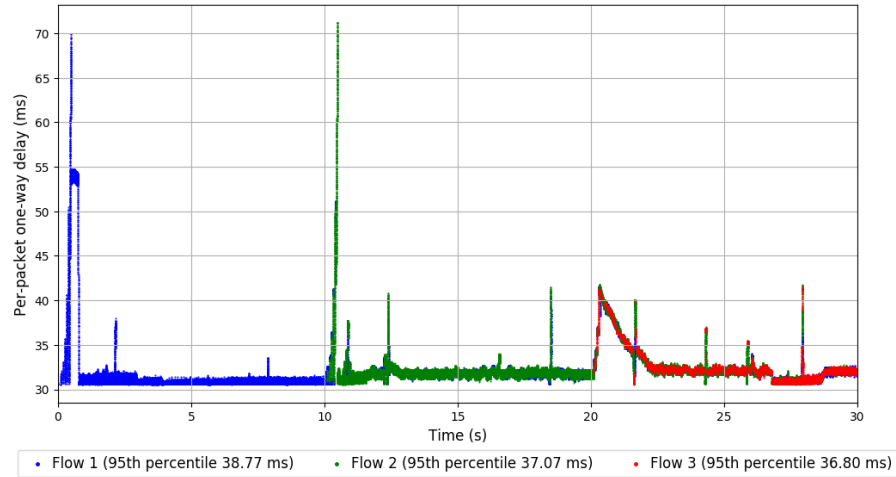
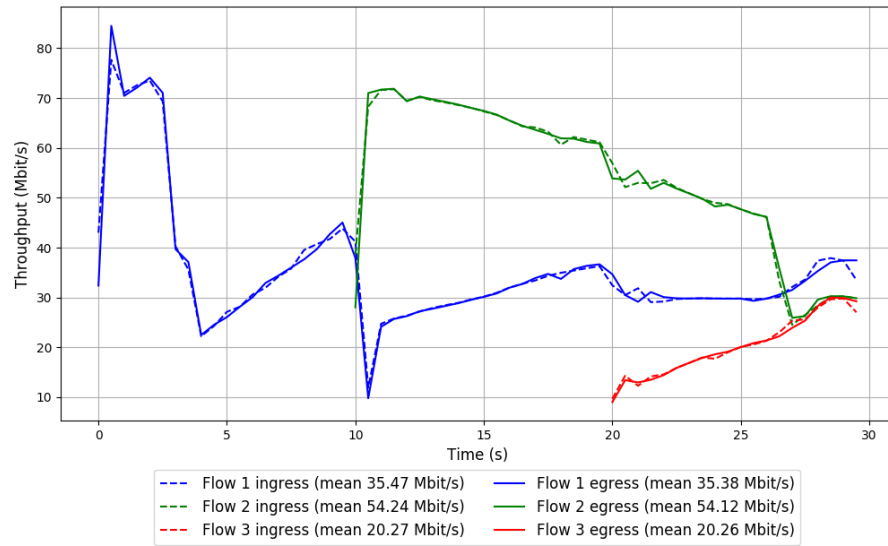
-- Flow 3:

Average throughput: 20.26 Mbit/s

95th percentile per-packet one-way delay: 36.798 ms

Loss rate: 0.00%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

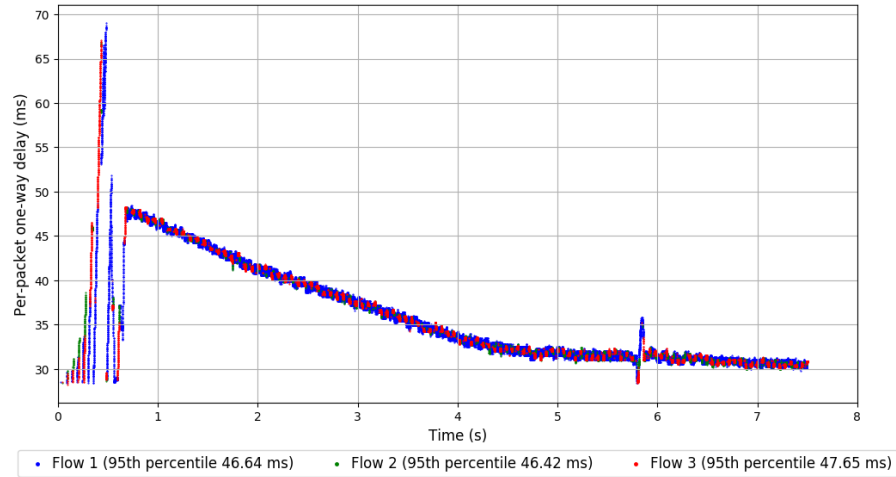
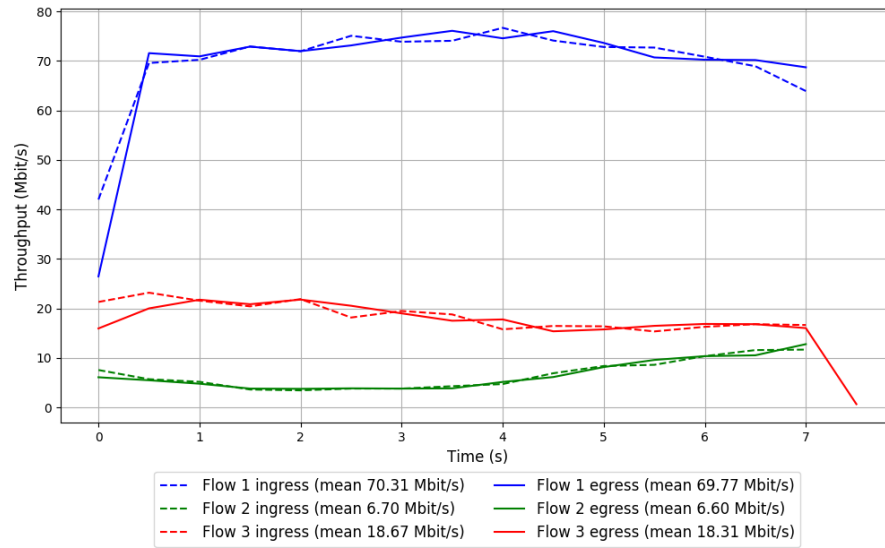
Start at: 2018-01-02 12:26:29

End at: 2018-01-02 12:26:59

Local clock offset: 0.787 ms

Remote clock offset: -2.385 ms

Run 5: Report of TCP Vegas — Data Link

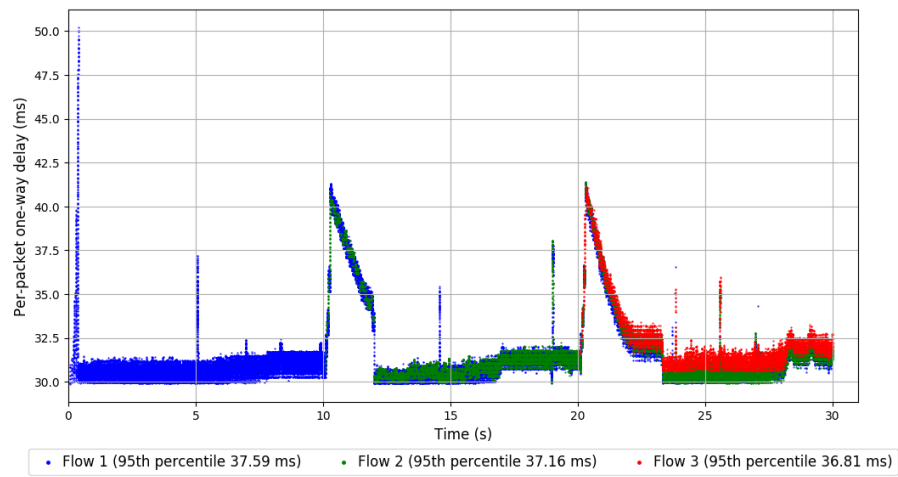
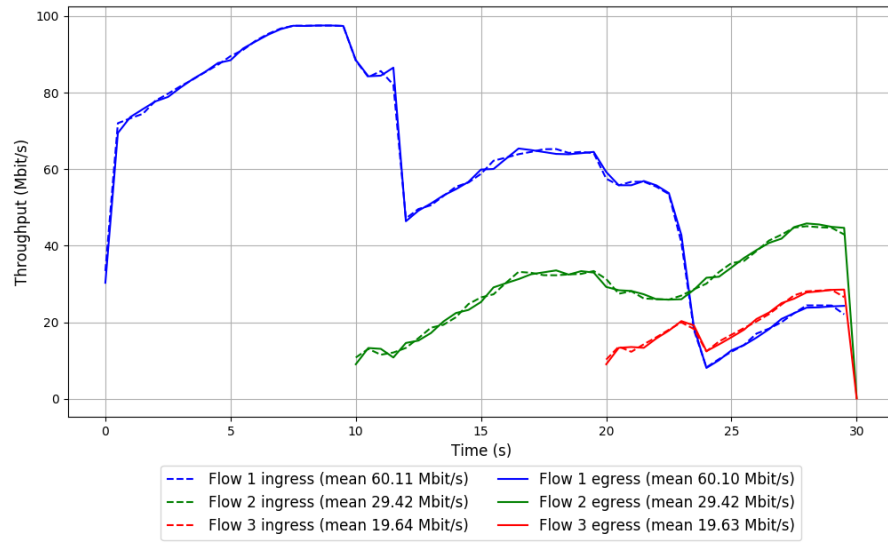


Run 6: Statistics of TCP Vegas

Start at: 2018-01-02 12:47:07
End at: 2018-01-02 12:47:37
Local clock offset: 0.786 ms
Remote clock offset: -0.486 ms

Below is generated by plot.py at 2018-01-02 14:52:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 86.21 Mbit/s
95th percentile per-packet one-way delay: 37.430 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 60.10 Mbit/s
95th percentile per-packet one-way delay: 37.585 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 29.42 Mbit/s
95th percentile per-packet one-way delay: 37.162 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 19.63 Mbit/s
95th percentile per-packet one-way delay: 36.810 ms
Loss rate: 0.05%

Run 6: Report of TCP Vegas — Data Link

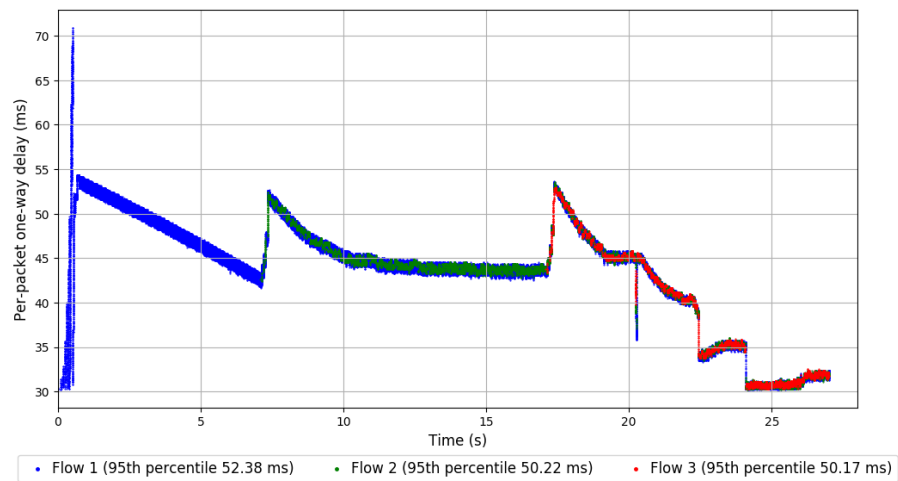
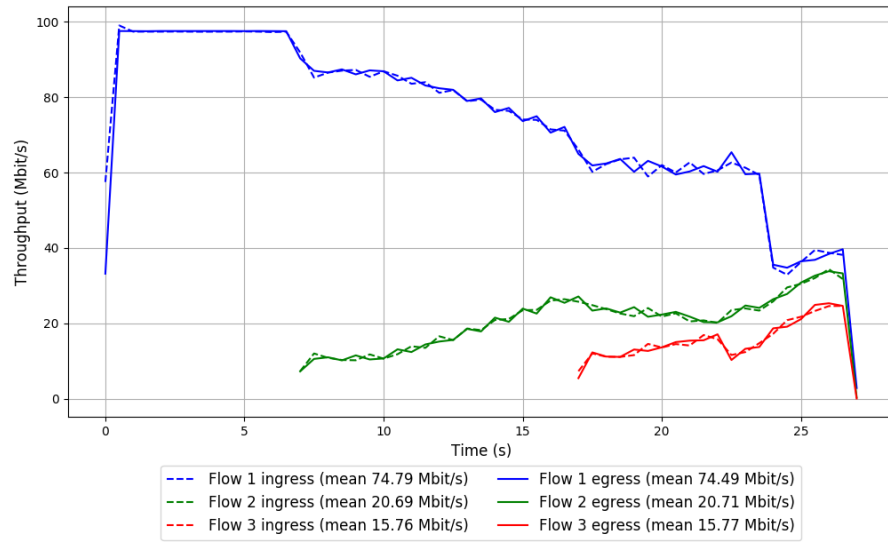


Run 7: Statistics of TCP Vegas

Start at: 2018-01-02 13:07:48
End at: 2018-01-02 13:08:18
Local clock offset: 0.956 ms
Remote clock offset: -0.594 ms

Below is generated by plot.py at 2018-01-02 14:52:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 95.61 Mbit/s
95th percentile per-packet one-way delay: 52.128 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 74.49 Mbit/s
95th percentile per-packet one-way delay: 52.375 ms
Loss rate: 0.39%
-- Flow 2:
Average throughput: 20.71 Mbit/s
95th percentile per-packet one-way delay: 50.215 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 15.77 Mbit/s
95th percentile per-packet one-way delay: 50.168 ms
Loss rate: 0.04%

Run 7: Report of TCP Vegas — Data Link

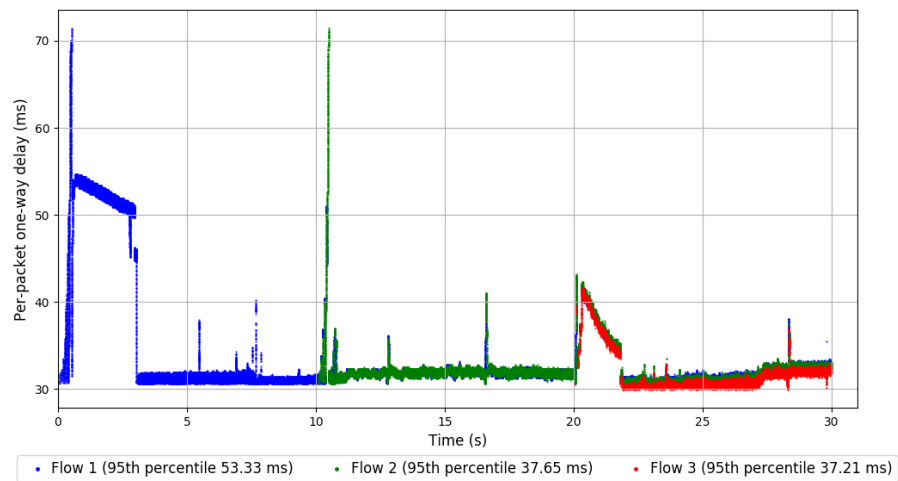
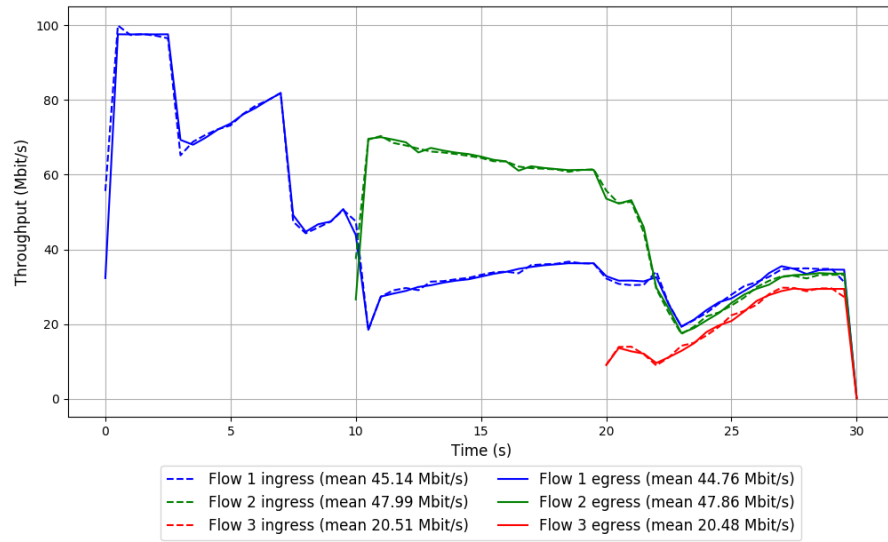


Run 8: Statistics of TCP Vegas

Start at: 2018-01-02 13:28:23
End at: 2018-01-02 13:28:53
Local clock offset: 0.905 ms
Remote clock offset: -0.757 ms

Below is generated by plot.py at 2018-01-02 14:52:57
Datalink statistics
-- Total of 3 flows:
Average throughput: 83.43 Mbit/s
95th percentile per-packet one-way delay: 52.378 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 44.76 Mbit/s
95th percentile per-packet one-way delay: 53.330 ms
Loss rate: 0.82%
-- Flow 2:
Average throughput: 47.86 Mbit/s
95th percentile per-packet one-way delay: 37.654 ms
Loss rate: 0.26%
-- Flow 3:
Average throughput: 20.48 Mbit/s
95th percentile per-packet one-way delay: 37.210 ms
Loss rate: 0.13%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-01-02 13:49:06

End at: 2018-01-02 13:49:36

Local clock offset: 0.56 ms

Remote clock offset: -2.75 ms

Below is generated by plot.py at 2018-01-02 14:53:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.81 Mbit/s

95th percentile per-packet one-way delay: 45.184 ms

Loss rate: 0.27%

-- Flow 1:

Average throughput: 39.76 Mbit/s

95th percentile per-packet one-way delay: 51.317 ms

Loss rate: 0.36%

-- Flow 2:

Average throughput: 45.17 Mbit/s

95th percentile per-packet one-way delay: 41.992 ms

Loss rate: 0.26%

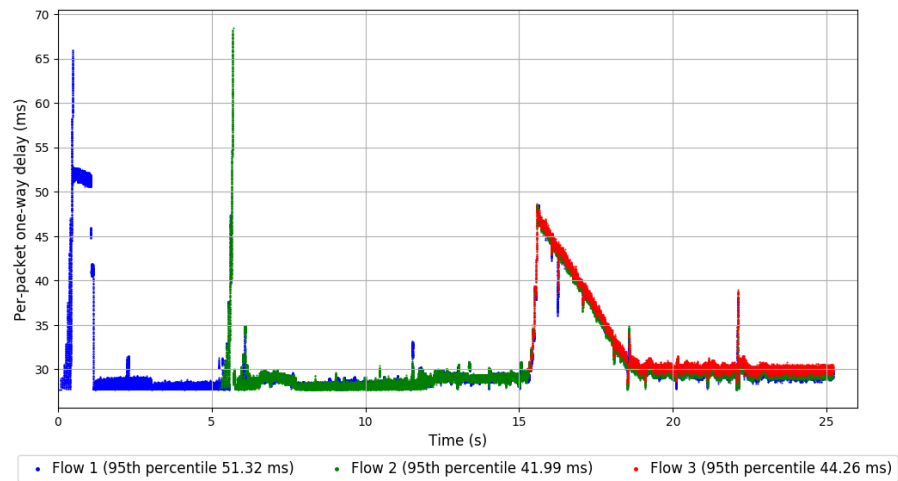
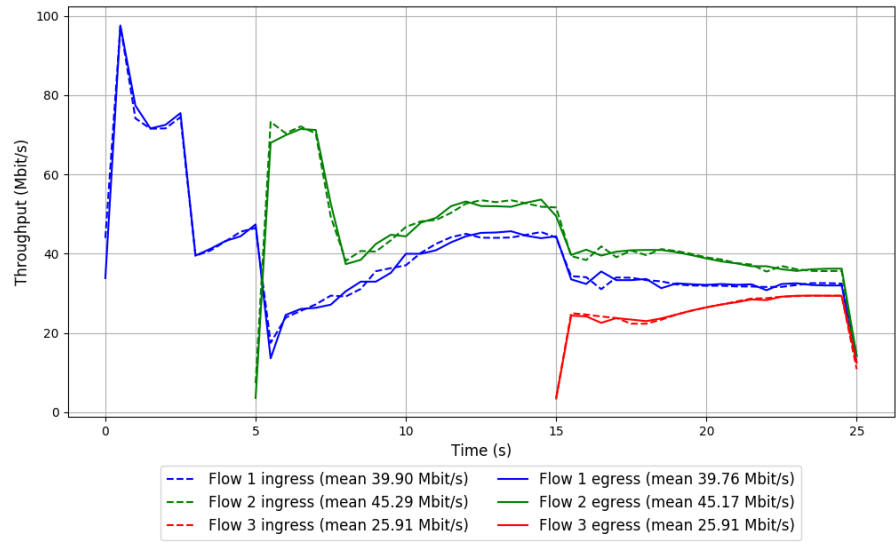
-- Flow 3:

Average throughput: 25.91 Mbit/s

95th percentile per-packet one-way delay: 44.261 ms

Loss rate: 0.00%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

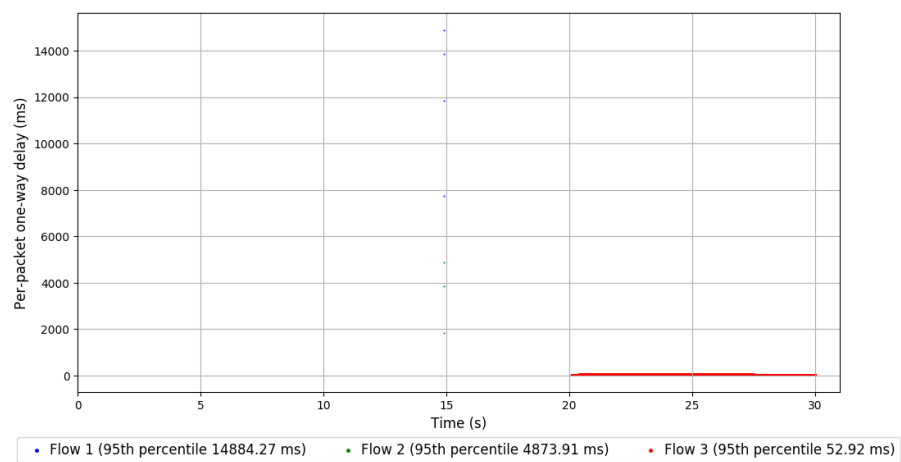
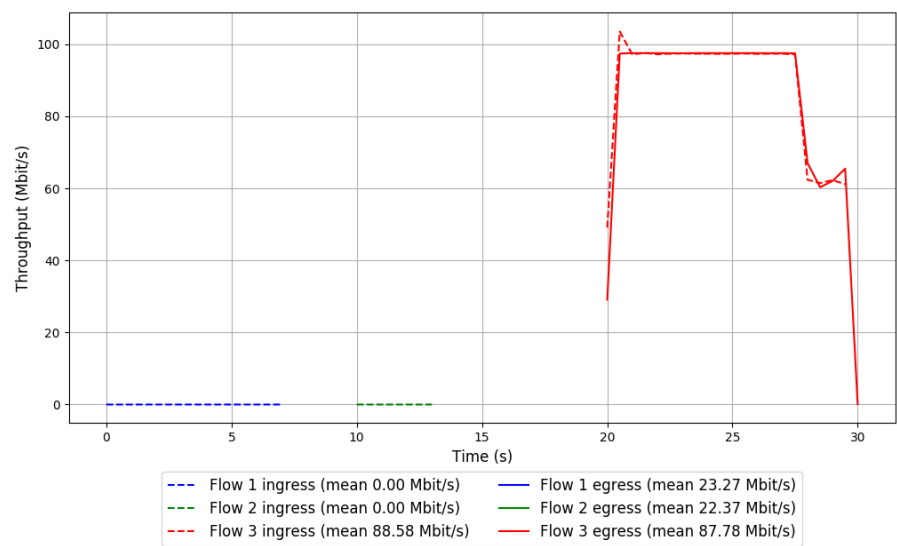
Start at: 2018-01-02 14:10:26

End at: 2018-01-02 14:10:56

Local clock offset: 0.55 ms

Remote clock offset: -0.661 ms

Run 10: Report of TCP Vegas — Data Link

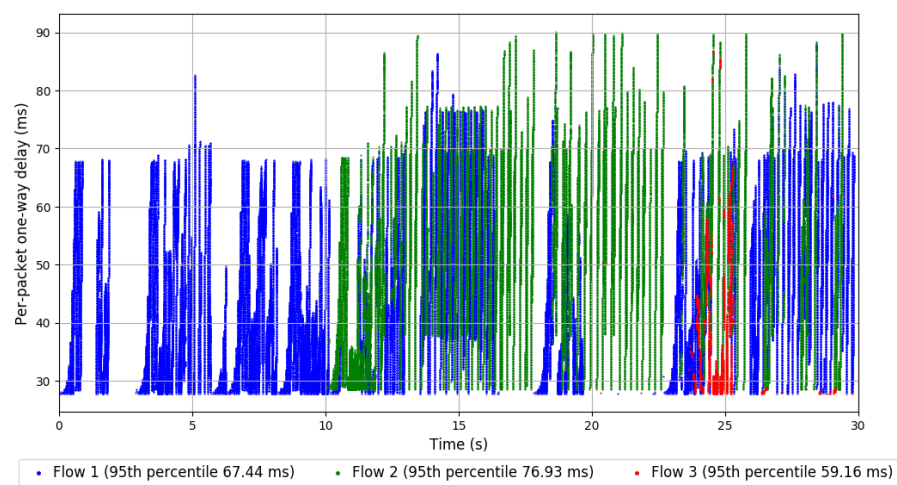
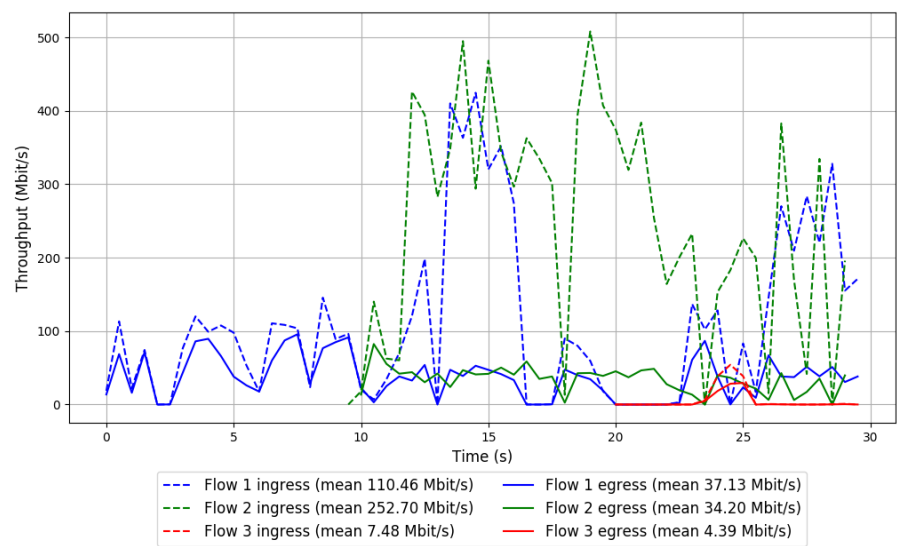


Run 1: Statistics of Verus

Start at: 2018-01-02 11:07:00
End at: 2018-01-02 11:07:30
Local clock offset: 0.893 ms
Remote clock offset: -1.864 ms

Below is generated by plot.py at 2018-01-02 14:54:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 60.76 Mbit/s
95th percentile per-packet one-way delay: 71.945 ms
Loss rate: 78.05%
-- Flow 1:
Average throughput: 37.13 Mbit/s
95th percentile per-packet one-way delay: 67.444 ms
Loss rate: 66.35%
-- Flow 2:
Average throughput: 34.20 Mbit/s
95th percentile per-packet one-way delay: 76.932 ms
Loss rate: 86.45%
-- Flow 3:
Average throughput: 4.39 Mbit/s
95th percentile per-packet one-way delay: 59.163 ms
Loss rate: 41.38%

Run 1: Report of Verus — Data Link

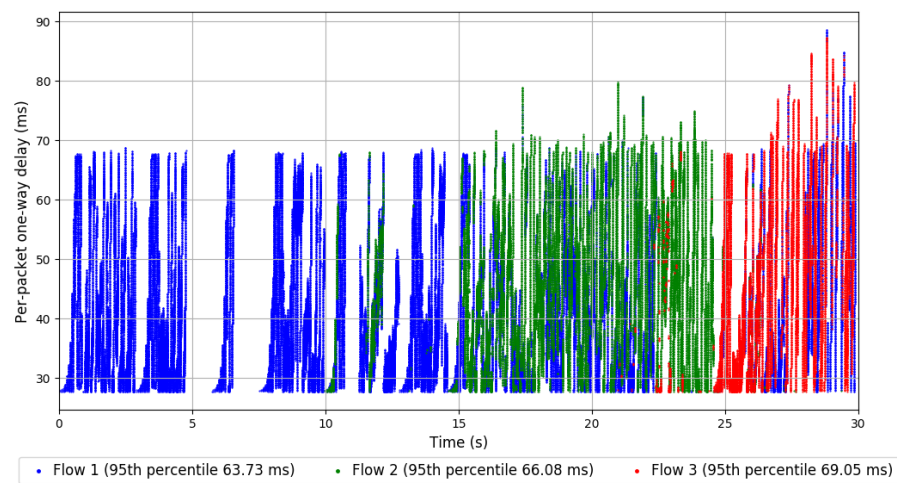
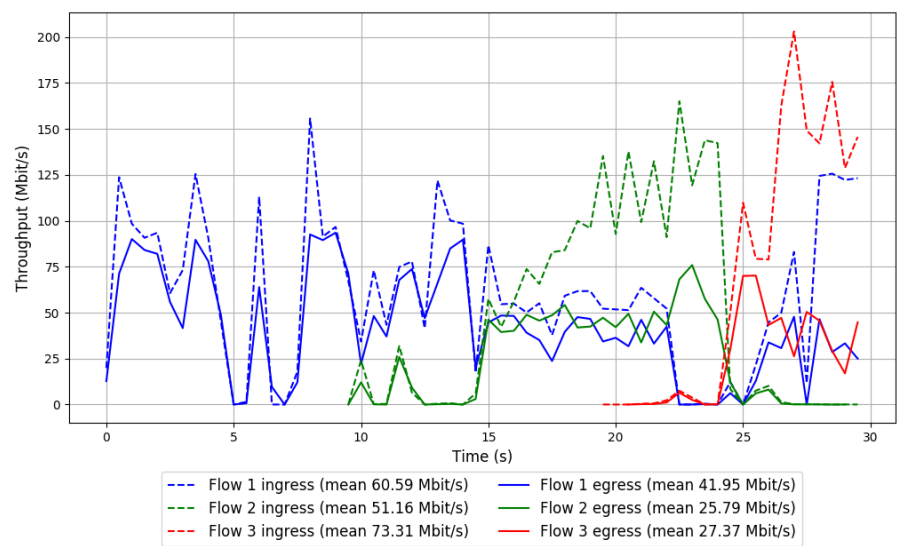


Run 2: Statistics of Verus

Start at: 2018-01-02 11:27:43
End at: 2018-01-02 11:28:13
Local clock offset: 0.871 ms
Remote clock offset: -2.209 ms

Below is generated by plot.py at 2018-01-02 14:54:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 66.81 Mbit/s
95th percentile per-packet one-way delay: 64.990 ms
Loss rate: 43.59%
-- Flow 1:
Average throughput: 41.95 Mbit/s
95th percentile per-packet one-way delay: 63.733 ms
Loss rate: 30.74%
-- Flow 2:
Average throughput: 25.79 Mbit/s
95th percentile per-packet one-way delay: 66.080 ms
Loss rate: 50.41%
-- Flow 3:
Average throughput: 27.37 Mbit/s
95th percentile per-packet one-way delay: 69.054 ms
Loss rate: 66.34%

Run 2: Report of Verus — Data Link

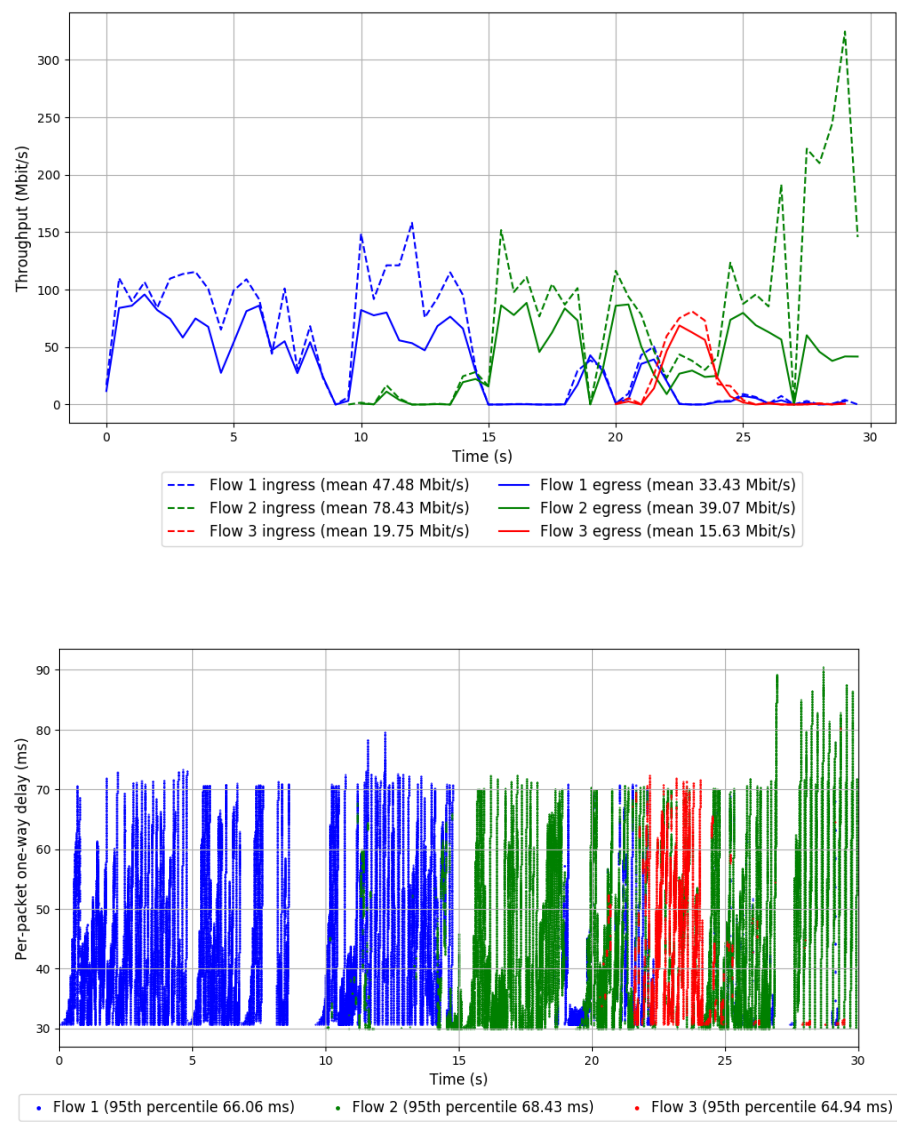


Run 3: Statistics of Verus

Start at: 2018-01-02 11:48:50
End at: 2018-01-02 11:49:20
Local clock offset: 0.894 ms
Remote clock offset: 0.104 ms

```
# Below is generated by plot.py at 2018-01-02 14:54:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 63.44 Mbit/s
95th percentile per-packet one-way delay: 67.066 ms
Loss rate: 39.65%
-- Flow 1:
Average throughput: 33.43 Mbit/s
95th percentile per-packet one-way delay: 66.057 ms
Loss rate: 30.38%
-- Flow 2:
Average throughput: 39.07 Mbit/s
95th percentile per-packet one-way delay: 68.434 ms
Loss rate: 50.10%
-- Flow 3:
Average throughput: 15.63 Mbit/s
95th percentile per-packet one-way delay: 64.936 ms
Loss rate: 21.38%
```

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-01-02 12:09:42

End at: 2018-01-02 12:10:12

Local clock offset: 0.941 ms

Remote clock offset: 0.431 ms

Below is generated by plot.py at 2018-01-02 14:54:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 62.48 Mbit/s

95th percentile per-packet one-way delay: 66.447 ms

Loss rate: 32.76%

-- Flow 1:

Average throughput: 41.11 Mbit/s

95th percentile per-packet one-way delay: 66.681 ms

Loss rate: 35.37%

-- Flow 2:

Average throughput: 25.14 Mbit/s

95th percentile per-packet one-way delay: 66.171 ms

Loss rate: 27.51%

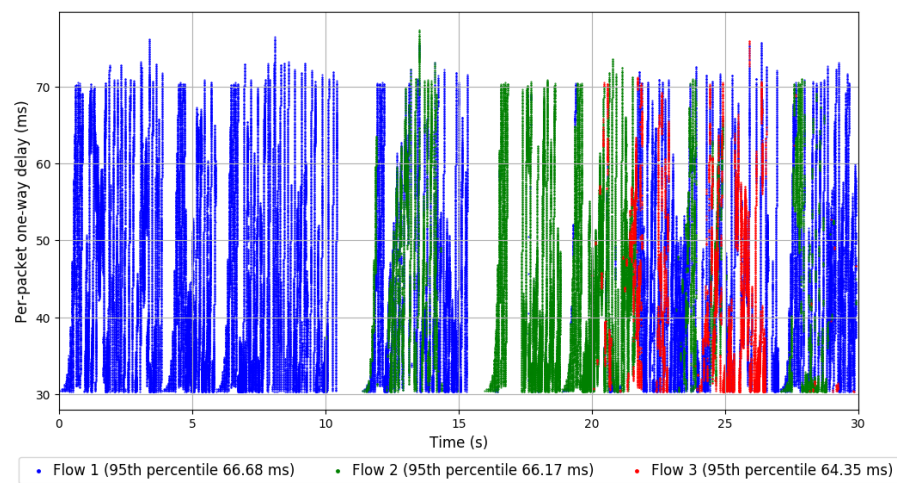
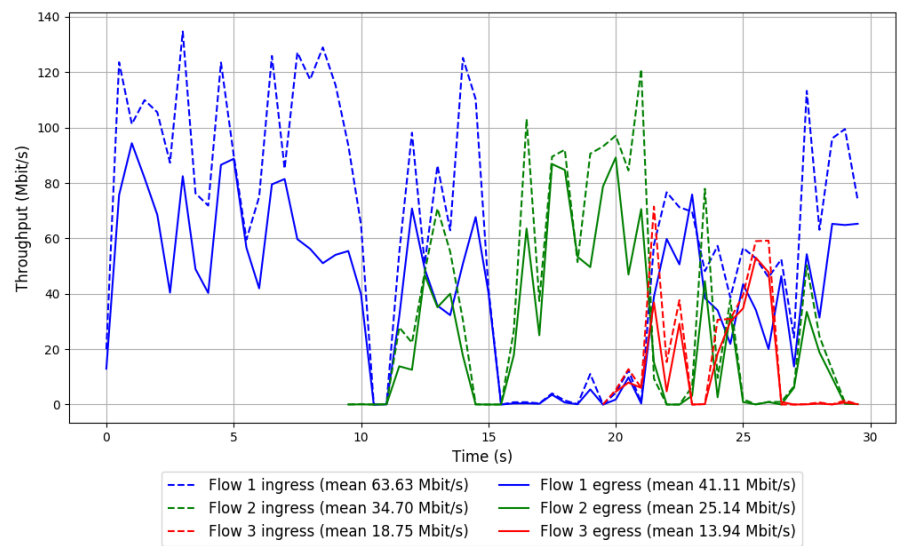
-- Flow 3:

Average throughput: 13.94 Mbit/s

95th percentile per-packet one-way delay: 64.354 ms

Loss rate: 25.62%

Run 4: Report of Verus — Data Link

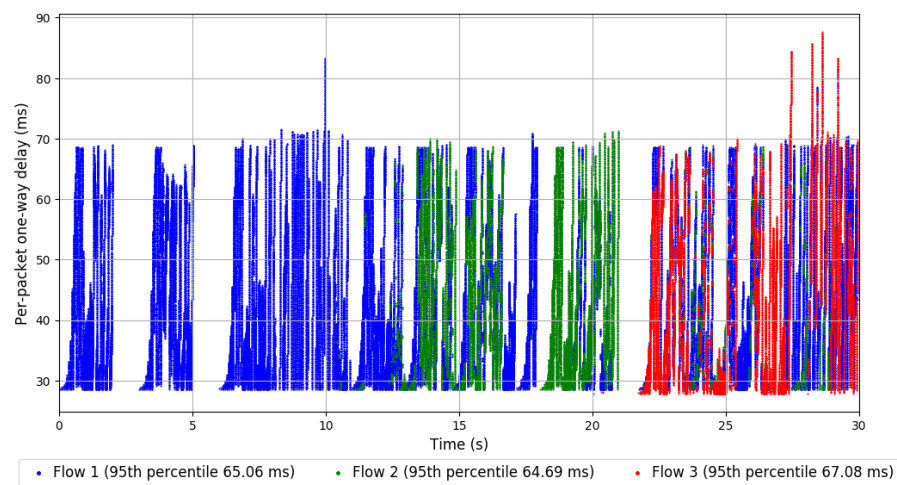
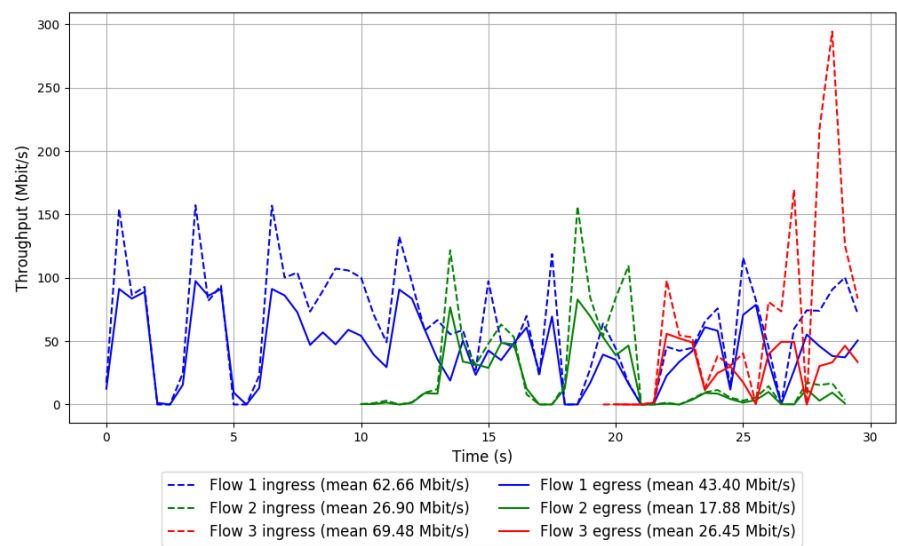


Run 5: Statistics of Verus

Start at: 2018-01-02 12:30:36
End at: 2018-01-02 12:31:06
Local clock offset: 0.77 ms
Remote clock offset: -2.311 ms

Below is generated by plot.py at 2018-01-02 14:54:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 63.37 Mbit/s
95th percentile per-packet one-way delay: 65.179 ms
Loss rate: 38.20%
-- Flow 1:
Average throughput: 43.40 Mbit/s
95th percentile per-packet one-way delay: 65.060 ms
Loss rate: 30.71%
-- Flow 2:
Average throughput: 17.88 Mbit/s
95th percentile per-packet one-way delay: 64.689 ms
Loss rate: 33.87%
-- Flow 3:
Average throughput: 26.45 Mbit/s
95th percentile per-packet one-way delay: 67.083 ms
Loss rate: 61.79%

Run 5: Report of Verus — Data Link

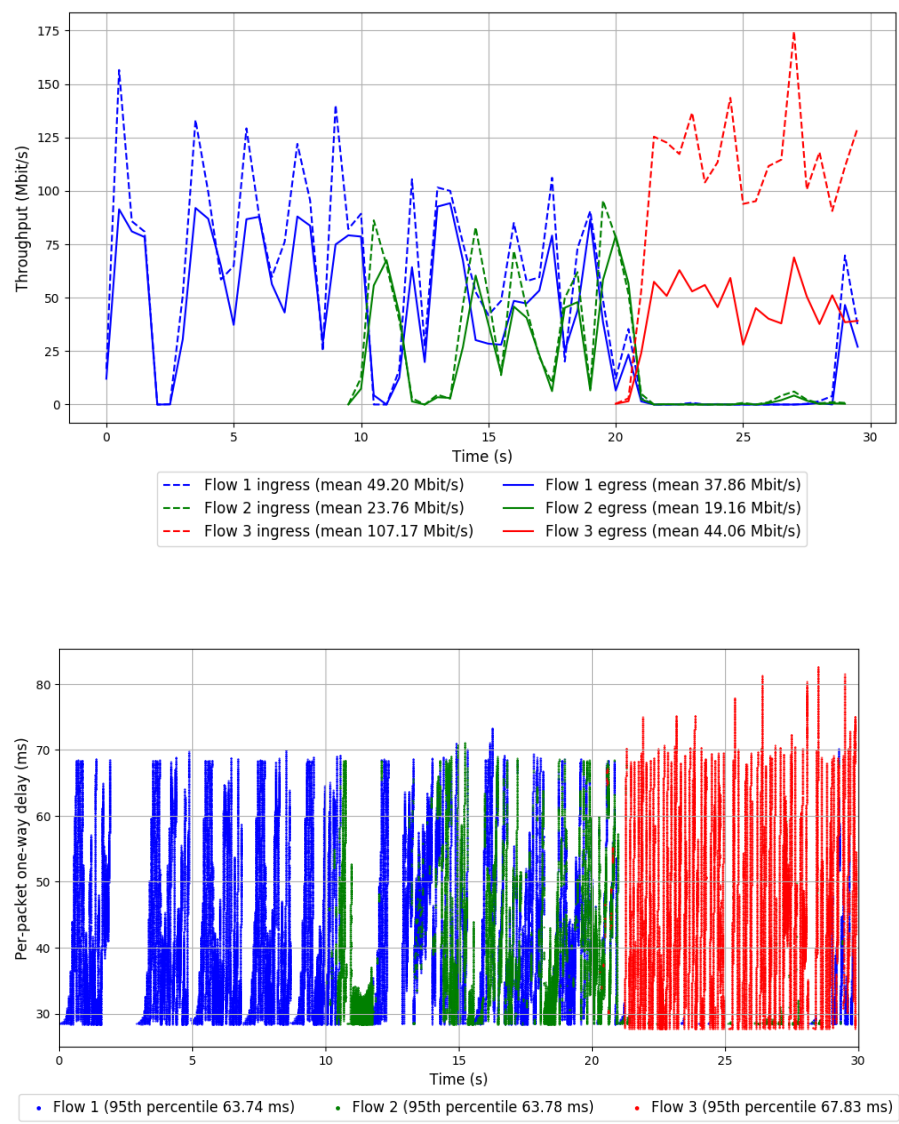


Run 6: Statistics of Verus

Start at: 2018-01-02 12:51:17
End at: 2018-01-02 12:51:47
Local clock offset: 0.887 ms
Remote clock offset: -2.733 ms

Below is generated by plot.py at 2018-01-02 14:54:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 64.34 Mbit/s
95th percentile per-packet one-way delay: 64.900 ms
Loss rate: 34.98%
-- Flow 1:
Average throughput: 37.86 Mbit/s
95th percentile per-packet one-way delay: 63.736 ms
Loss rate: 23.09%
-- Flow 2:
Average throughput: 19.16 Mbit/s
95th percentile per-packet one-way delay: 63.785 ms
Loss rate: 19.57%
-- Flow 3:
Average throughput: 44.06 Mbit/s
95th percentile per-packet one-way delay: 67.827 ms
Loss rate: 58.81%

Run 6: Report of Verus — Data Link

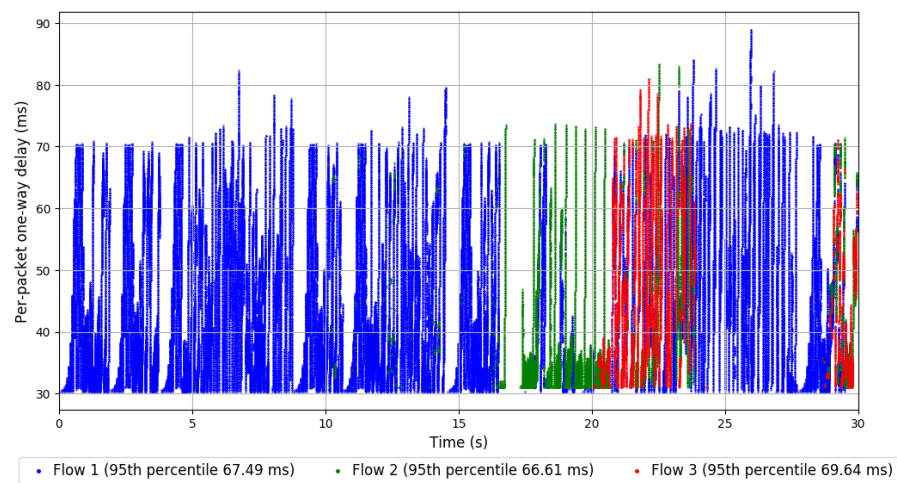
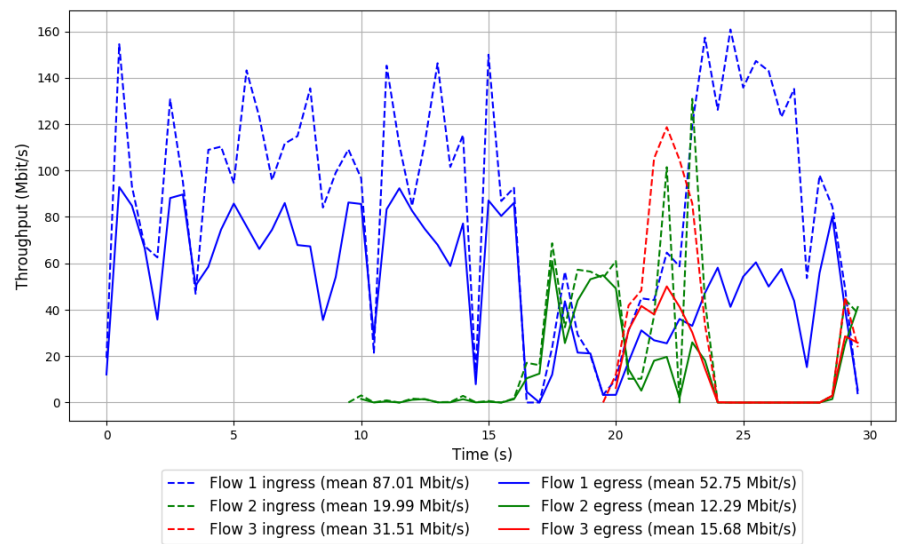


Run 7: Statistics of Verus

Start at: 2018-01-02 13:11:57
End at: 2018-01-02 13:12:27
Local clock offset: 0.919 ms
Remote clock offset: -0.571 ms

Below is generated by plot.py at 2018-01-02 14:54:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 66.12 Mbit/s
95th percentile per-packet one-way delay: 67.610 ms
Loss rate: 40.21%
-- Flow 1:
Average throughput: 52.75 Mbit/s
95th percentile per-packet one-way delay: 67.491 ms
Loss rate: 39.30%
-- Flow 2:
Average throughput: 12.29 Mbit/s
95th percentile per-packet one-way delay: 66.606 ms
Loss rate: 38.42%
-- Flow 3:
Average throughput: 15.68 Mbit/s
95th percentile per-packet one-way delay: 69.638 ms
Loss rate: 50.10%

Run 7: Report of Verus — Data Link

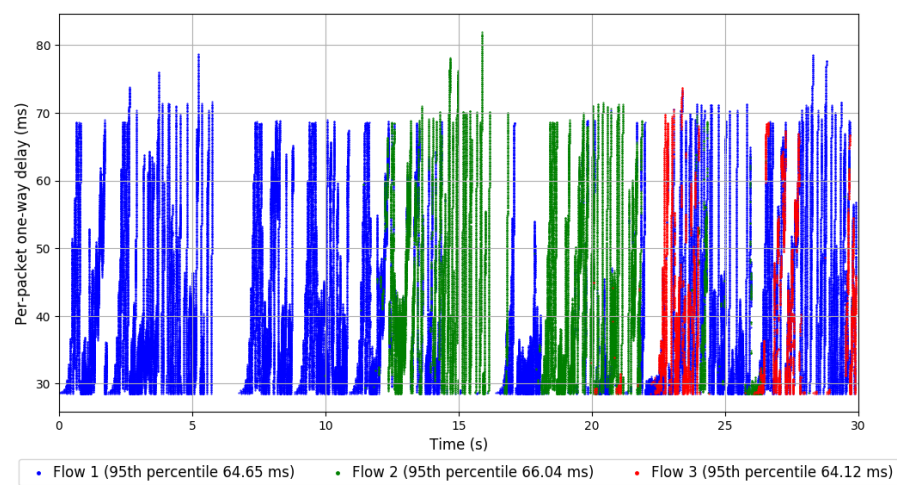
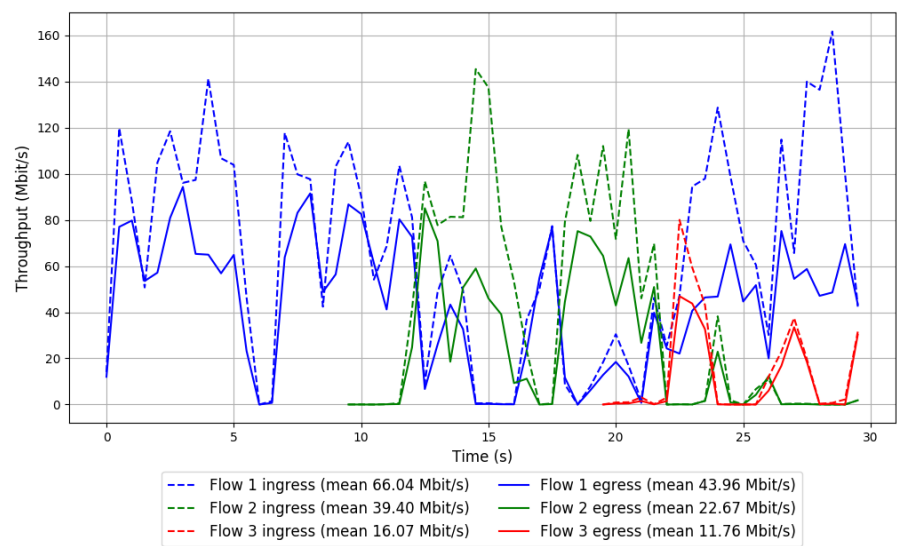


Run 8: Statistics of Verus

Start at: 2018-01-02 13:32:33
End at: 2018-01-02 13:33:03
Local clock offset: 0.837 ms
Remote clock offset: -2.896 ms

Below is generated by plot.py at 2018-01-02 14:54:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 62.93 Mbit/s
95th percentile per-packet one-way delay: 64.954 ms
Loss rate: 35.44%
-- Flow 1:
Average throughput: 43.96 Mbit/s
95th percentile per-packet one-way delay: 64.649 ms
Loss rate: 33.36%
-- Flow 2:
Average throughput: 22.67 Mbit/s
95th percentile per-packet one-way delay: 66.044 ms
Loss rate: 42.44%
-- Flow 3:
Average throughput: 11.76 Mbit/s
95th percentile per-packet one-way delay: 64.120 ms
Loss rate: 26.73%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-01-02 13:53:25

End at: 2018-01-02 13:53:55

Local clock offset: 0.502 ms

Remote clock offset: -0.52 ms

Below is generated by plot.py at 2018-01-02 14:54:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 65.32 Mbit/s

95th percentile per-packet one-way delay: 67.728 ms

Loss rate: 38.83%

-- Flow 1:

Average throughput: 49.47 Mbit/s

95th percentile per-packet one-way delay: 67.649 ms

Loss rate: 38.64%

-- Flow 2:

Average throughput: 12.47 Mbit/s

95th percentile per-packet one-way delay: 66.897 ms

Loss rate: 30.51%

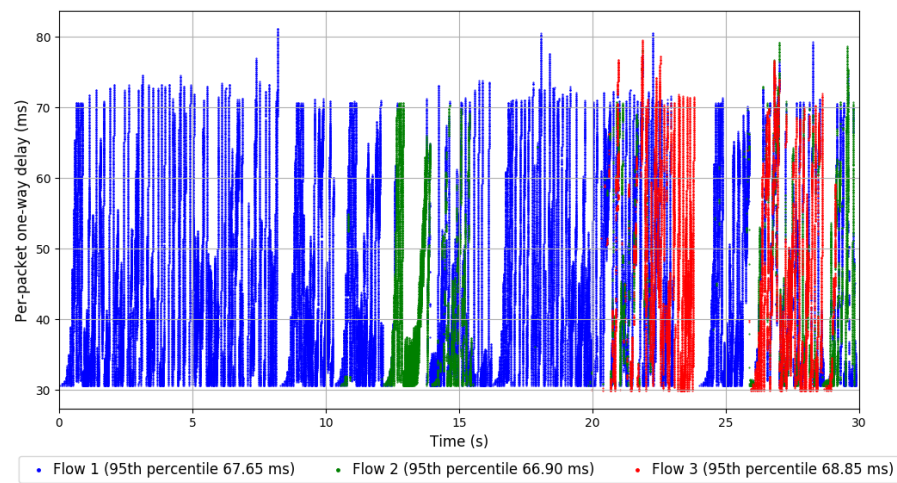
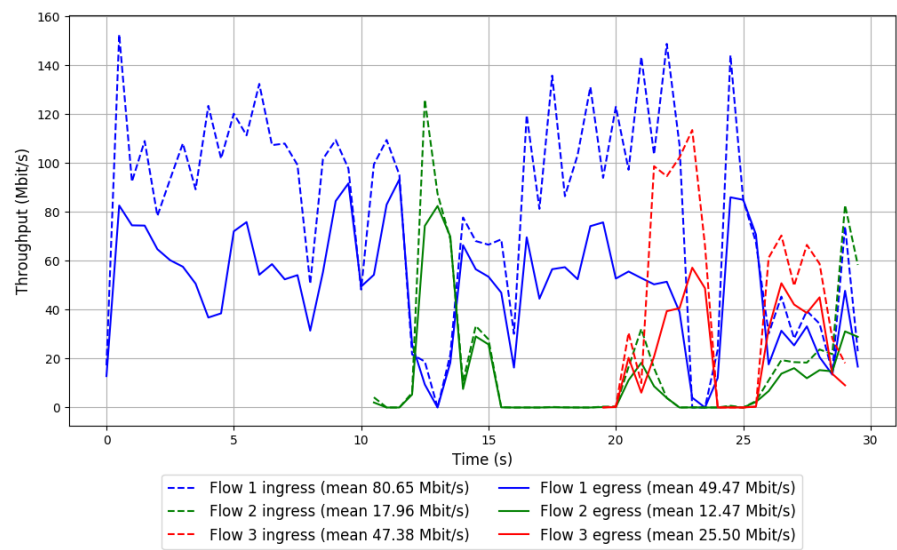
-- Flow 3:

Average throughput: 25.50 Mbit/s

95th percentile per-packet one-way delay: 68.853 ms

Loss rate: 46.48%

Run 9: Report of Verus — Data Link

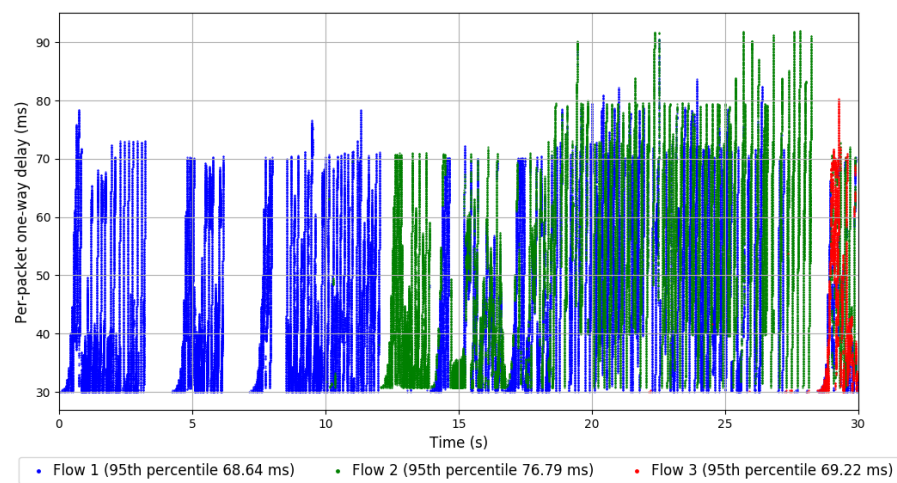
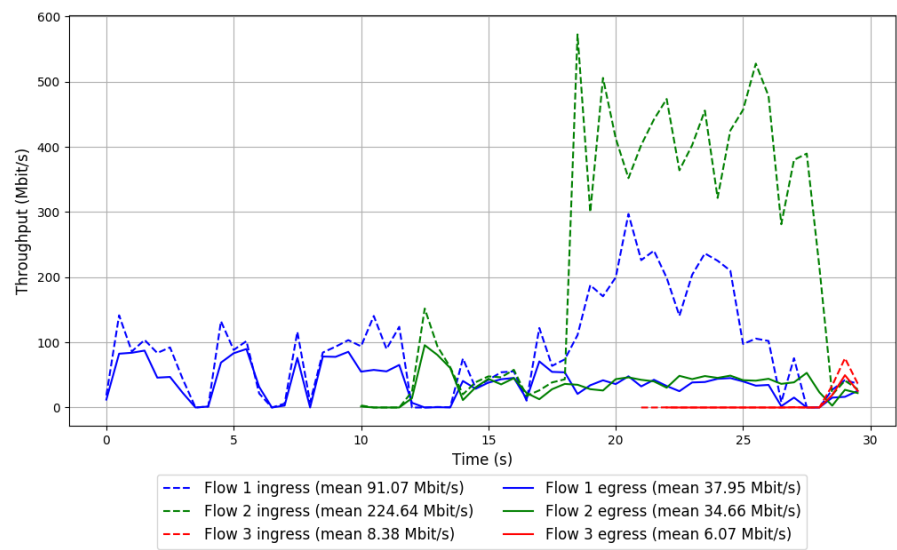


Run 10: Statistics of Verus

Start at: 2018-01-02 14:14:39
End at: 2018-01-02 14:15:09
Local clock offset: 0.501 ms
Remote clock offset: -0.679 ms

Below is generated by plot.py at 2018-01-02 14:55:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 62.55 Mbit/s
95th percentile per-packet one-way delay: 71.766 ms
Loss rate: 74.22%
-- Flow 1:
Average throughput: 37.95 Mbit/s
95th percentile per-packet one-way delay: 68.635 ms
Loss rate: 58.32%
-- Flow 2:
Average throughput: 34.66 Mbit/s
95th percentile per-packet one-way delay: 76.792 ms
Loss rate: 84.57%
-- Flow 3:
Average throughput: 6.07 Mbit/s
95th percentile per-packet one-way delay: 69.217 ms
Loss rate: 35.72%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2018-01-02 11:01:15

End at: 2018-01-02 11:01:45

Local clock offset: 0.861 ms

Remote clock offset: 0.335 ms

Below is generated by plot.py at 2018-01-02 14:55:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.37 Mbit/s

95th percentile per-packet one-way delay: 38.877 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 65.42 Mbit/s

95th percentile per-packet one-way delay: 38.134 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 32.52 Mbit/s

95th percentile per-packet one-way delay: 40.198 ms

Loss rate: 0.02%

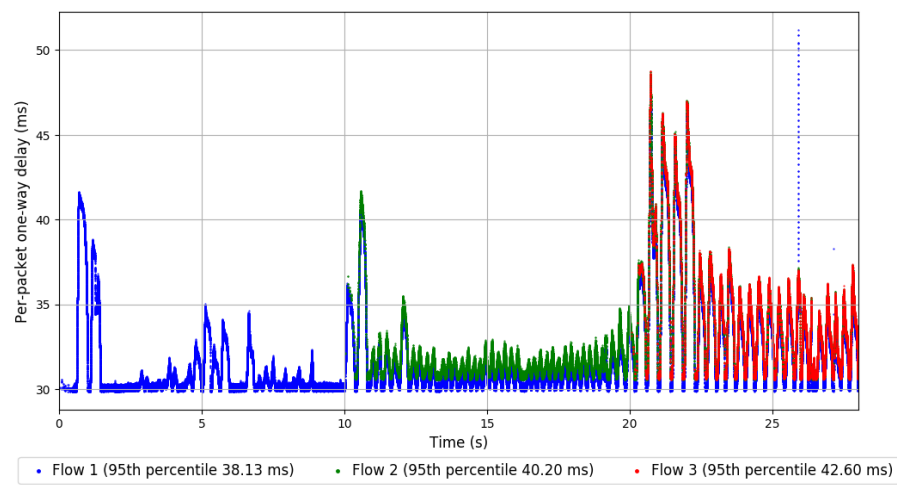
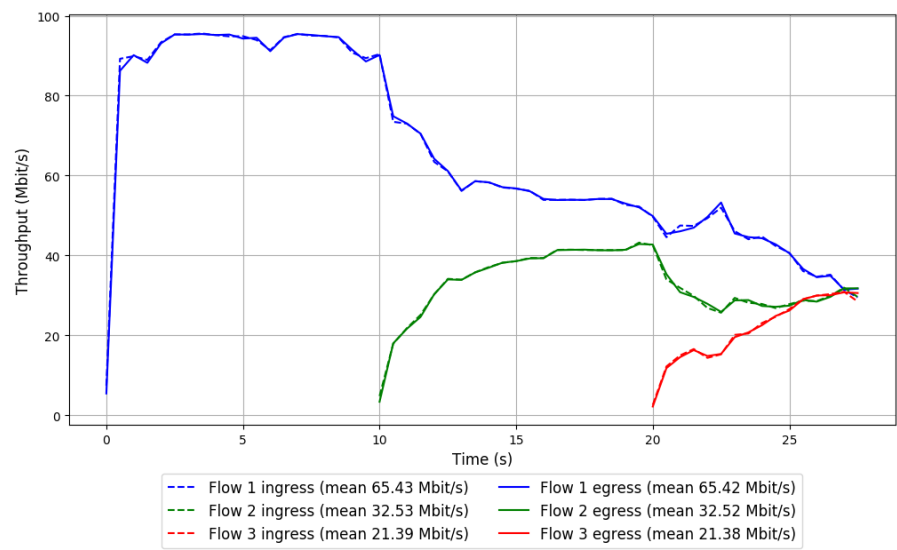
-- Flow 3:

Average throughput: 21.38 Mbit/s

95th percentile per-packet one-way delay: 42.601 ms

Loss rate: 0.08%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-01-02 11:22:02

End at: 2018-01-02 11:22:32

Local clock offset: 0.854 ms

Remote clock offset: 0.494 ms

Below is generated by plot.py at 2018-01-02 14:56:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.79 Mbit/s

95th percentile per-packet one-way delay: 39.116 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 67.01 Mbit/s

95th percentile per-packet one-way delay: 39.110 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 28.27 Mbit/s

95th percentile per-packet one-way delay: 39.671 ms

Loss rate: 0.00%

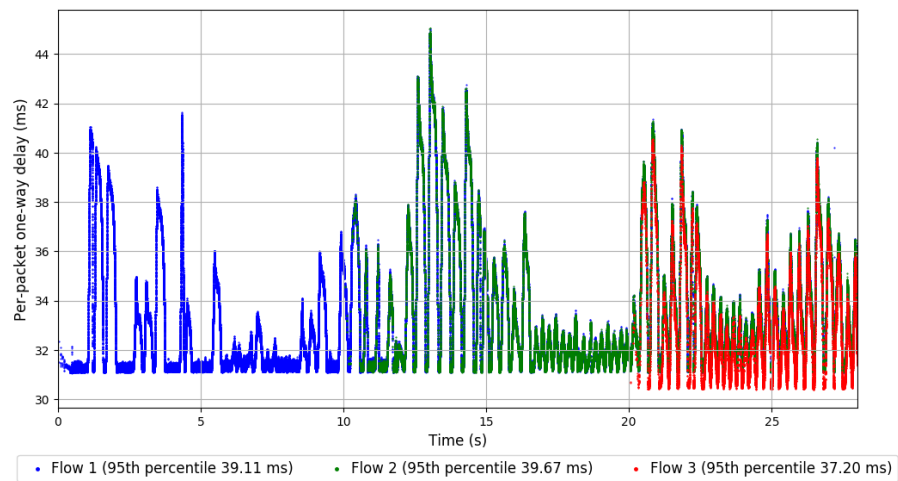
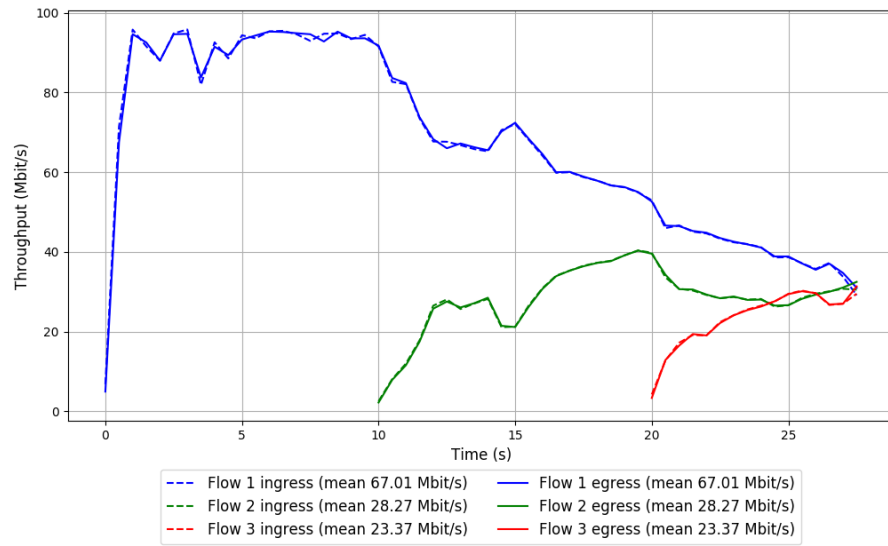
-- Flow 3:

Average throughput: 23.37 Mbit/s

95th percentile per-packet one-way delay: 37.203 ms

Loss rate: 0.00%

Run 2: Report of Copa — Data Link

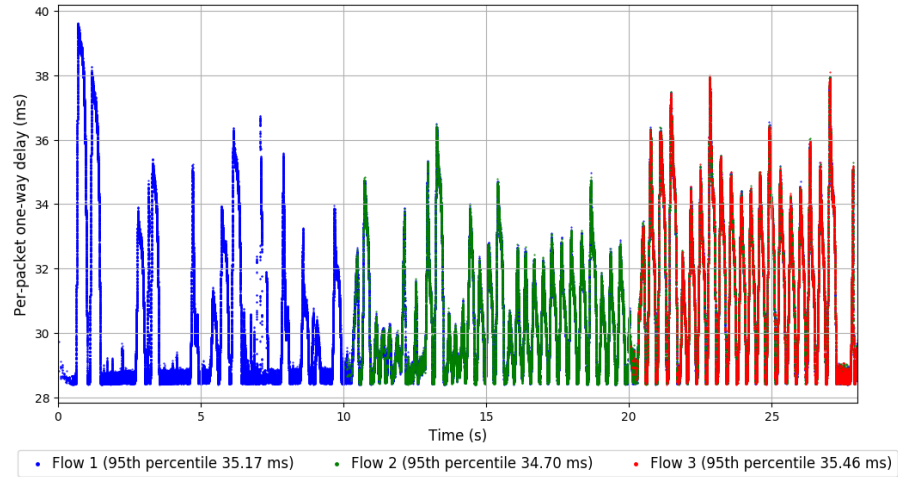
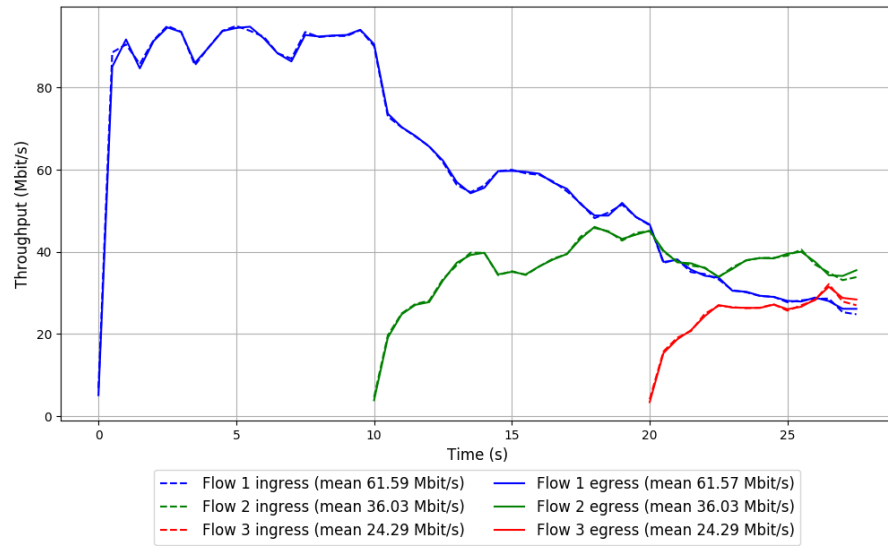


Run 3: Statistics of Copa

Start at: 2018-01-02 11:43:05
End at: 2018-01-02 11:43:35
Local clock offset: 0.977 ms
Remote clock offset: -2.077 ms

Below is generated by plot.py at 2018-01-02 14:56:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 91.61 Mbit/s
95th percentile per-packet one-way delay: 35.038 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 61.57 Mbit/s
95th percentile per-packet one-way delay: 35.172 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 36.03 Mbit/s
95th percentile per-packet one-way delay: 34.702 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 24.29 Mbit/s
95th percentile per-packet one-way delay: 35.458 ms
Loss rate: 0.01%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-01-02 12:04:01

End at: 2018-01-02 12:04:31

Local clock offset: 1.006 ms

Remote clock offset: 0.46 ms

Below is generated by plot.py at 2018-01-02 14:56:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 90.15 Mbit/s

95th percentile per-packet one-way delay: 36.613 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 61.76 Mbit/s

95th percentile per-packet one-way delay: 35.828 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 33.57 Mbit/s

95th percentile per-packet one-way delay: 36.964 ms

Loss rate: 0.00%

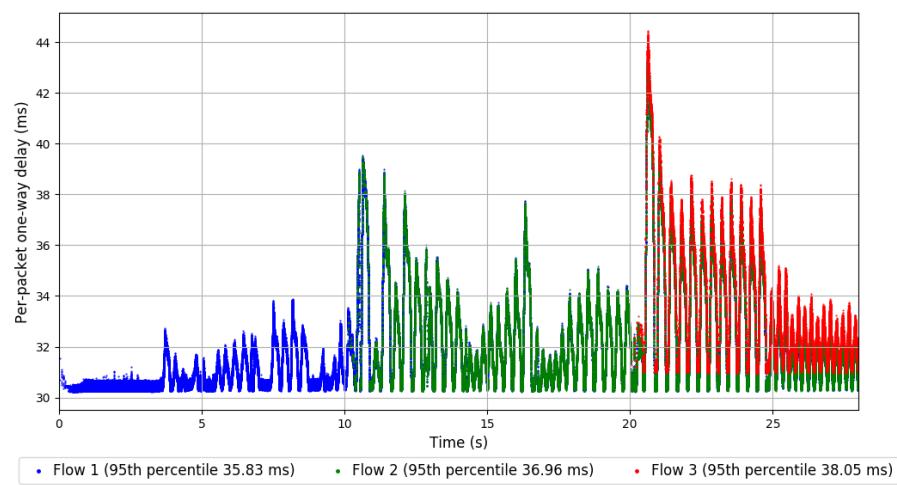
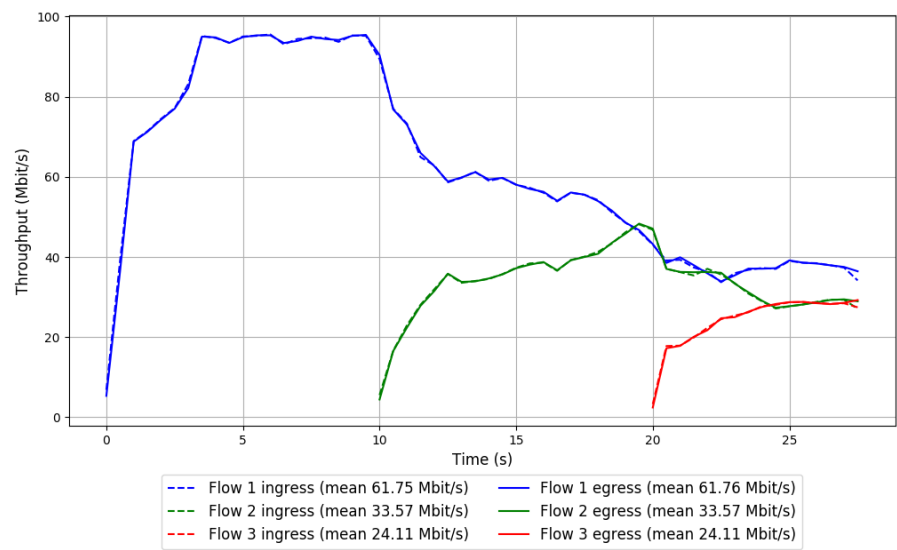
-- Flow 3:

Average throughput: 24.11 Mbit/s

95th percentile per-packet one-way delay: 38.046 ms

Loss rate: 0.00%

Run 4: Report of Copa — Data Link

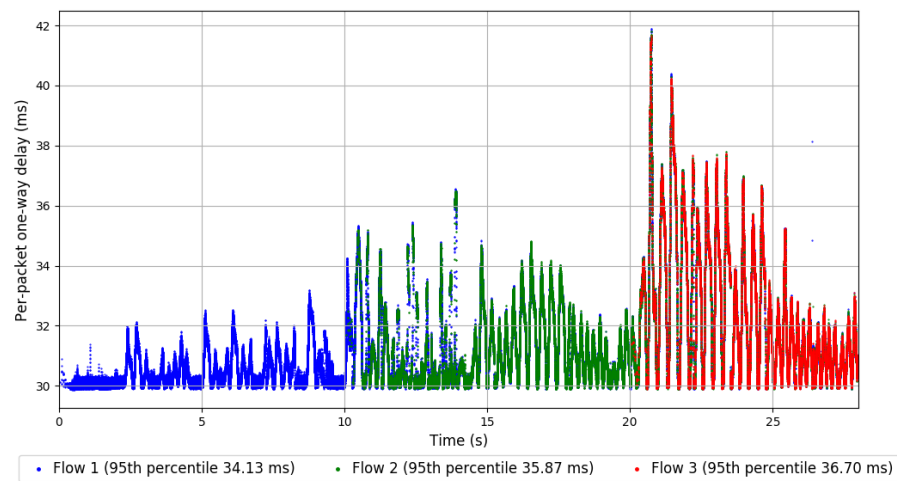
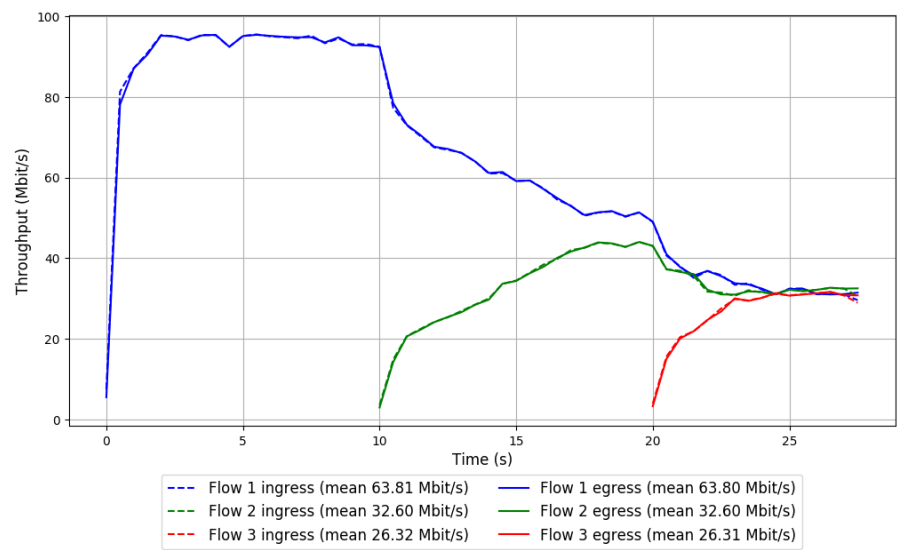


Run 5: Statistics of Copa

Start at: 2018-01-02 12:25:00
End at: 2018-01-02 12:25:30
Local clock offset: 0.899 ms
Remote clock offset: -0.126 ms

Below is generated by plot.py at 2018-01-02 14:56:33
Datalink statistics
-- Total of 3 flows:
Average throughput: 92.18 Mbit/s
95th percentile per-packet one-way delay: 34.953 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 63.80 Mbit/s
95th percentile per-packet one-way delay: 34.129 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 32.60 Mbit/s
95th percentile per-packet one-way delay: 35.869 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 26.31 Mbit/s
95th percentile per-packet one-way delay: 36.698 ms
Loss rate: 0.04%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-01-02 12:45:42

End at: 2018-01-02 12:46:12

Local clock offset: 0.79 ms

Remote clock offset: -0.03 ms

Below is generated by plot.py at 2018-01-02 14:56:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.62 Mbit/s

95th percentile per-packet one-way delay: 36.121 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 63.66 Mbit/s

95th percentile per-packet one-way delay: 35.526 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 33.77 Mbit/s

95th percentile per-packet one-way delay: 36.182 ms

Loss rate: 0.01%

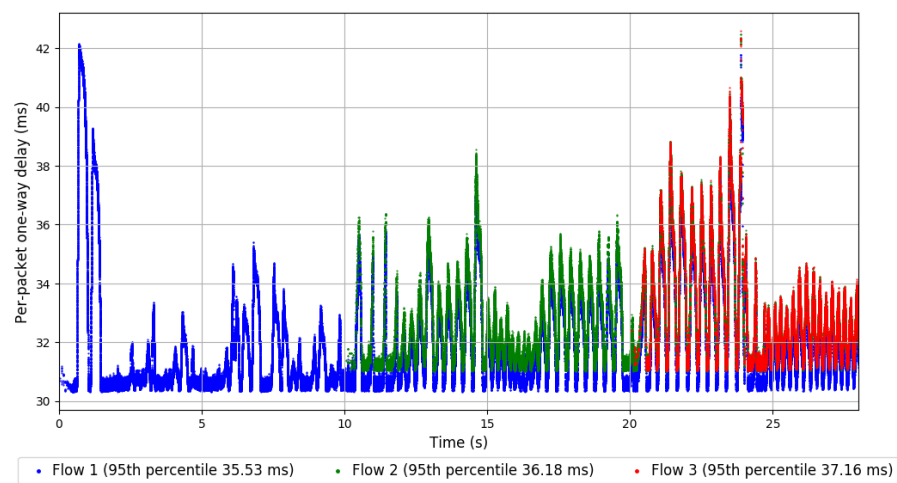
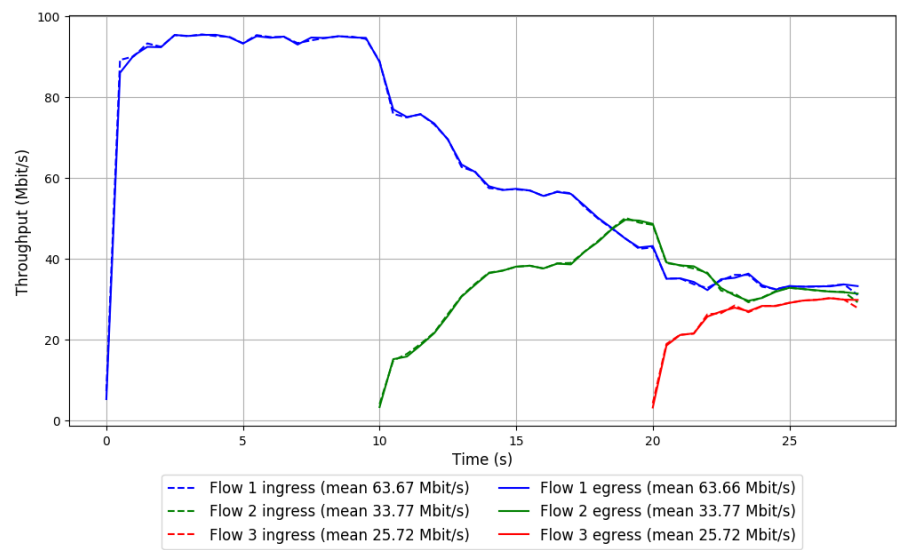
-- Flow 3:

Average throughput: 25.72 Mbit/s

95th percentile per-packet one-way delay: 37.156 ms

Loss rate: 0.01%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-01-02 13:06:21

End at: 2018-01-02 13:06:51

Local clock offset: 0.86 ms

Remote clock offset: -0.64 ms

Below is generated by plot.py at 2018-01-02 14:56:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.59 Mbit/s

95th percentile per-packet one-way delay: 36.911 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 61.17 Mbit/s

95th percentile per-packet one-way delay: 36.837 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 38.05 Mbit/s

95th percentile per-packet one-way delay: 36.872 ms

Loss rate: 0.01%

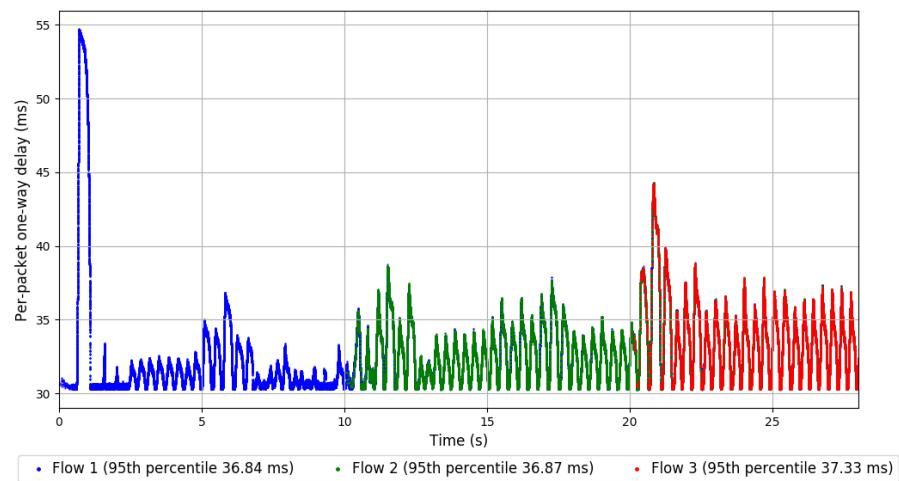
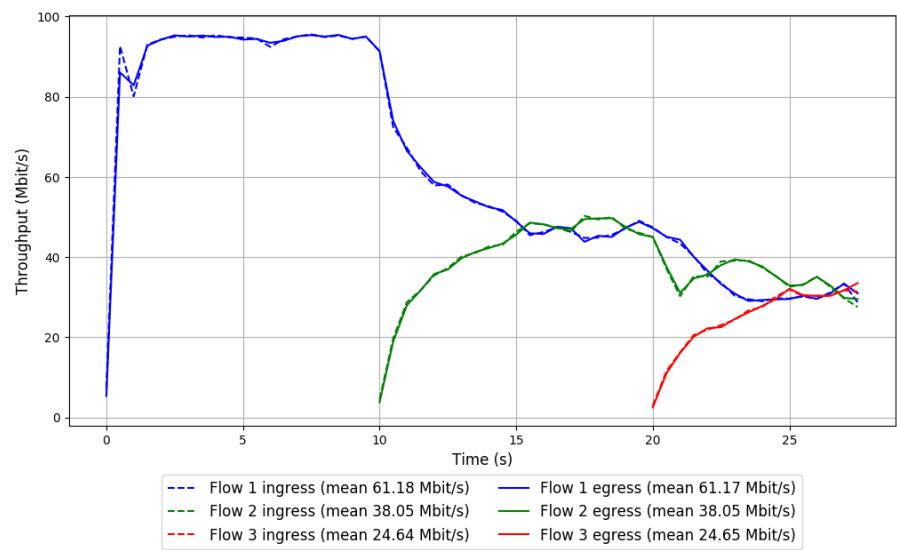
-- Flow 3:

Average throughput: 24.65 Mbit/s

95th percentile per-packet one-way delay: 37.334 ms

Loss rate: 0.00%

Run 7: Report of Copa — Data Link

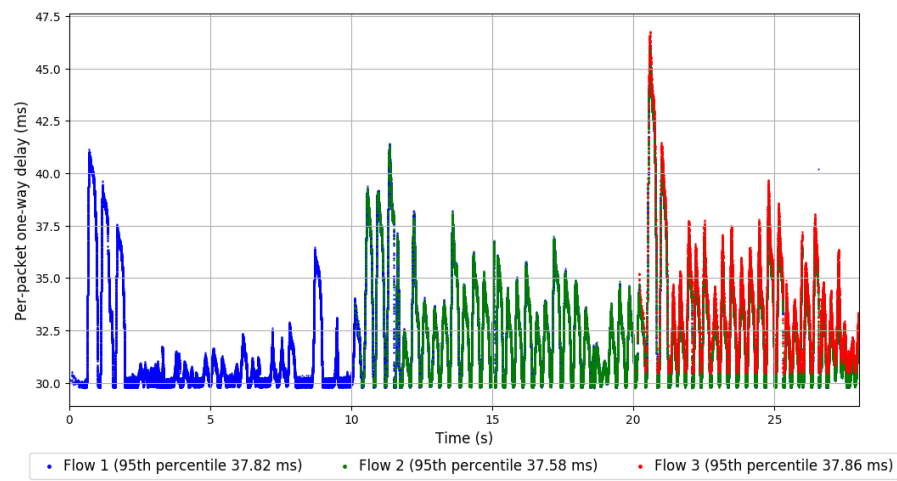
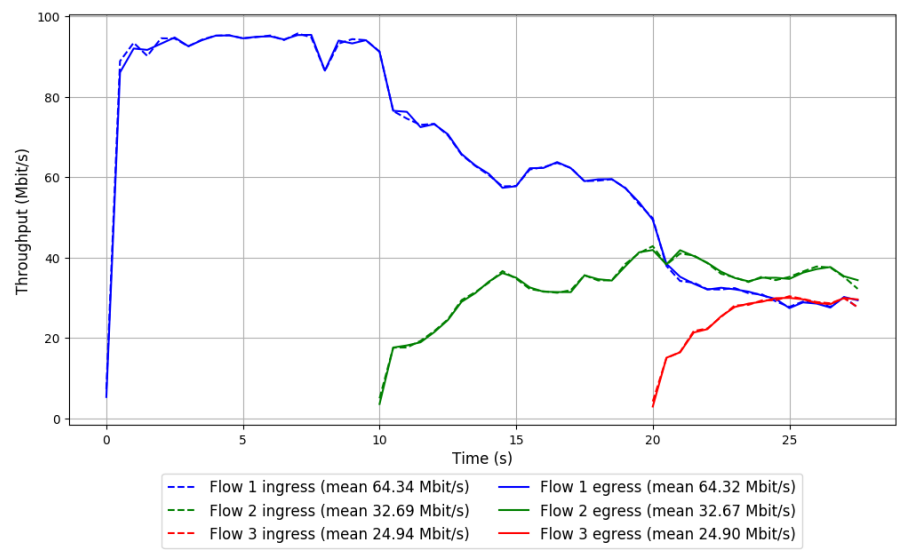


Run 8: Statistics of Copa

Start at: 2018-01-02 13:26:57
End at: 2018-01-02 13:27:27
Local clock offset: 0.91 ms
Remote clock offset: -0.968 ms

Below is generated by plot.py at 2018-01-02 14:57:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 92.35 Mbit/s
95th percentile per-packet one-way delay: 37.783 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 64.32 Mbit/s
95th percentile per-packet one-way delay: 37.820 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 32.67 Mbit/s
95th percentile per-packet one-way delay: 37.583 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 24.90 Mbit/s
95th percentile per-packet one-way delay: 37.863 ms
Loss rate: 0.14%

Run 8: Report of Copa — Data Link

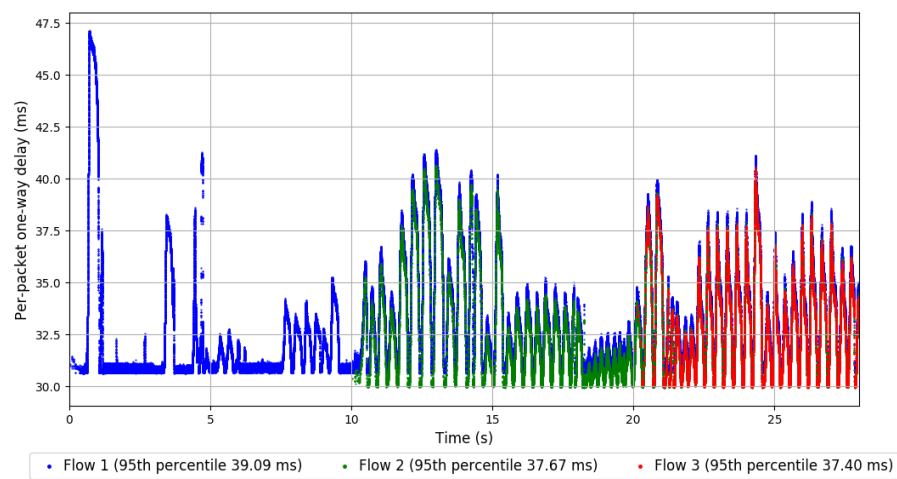
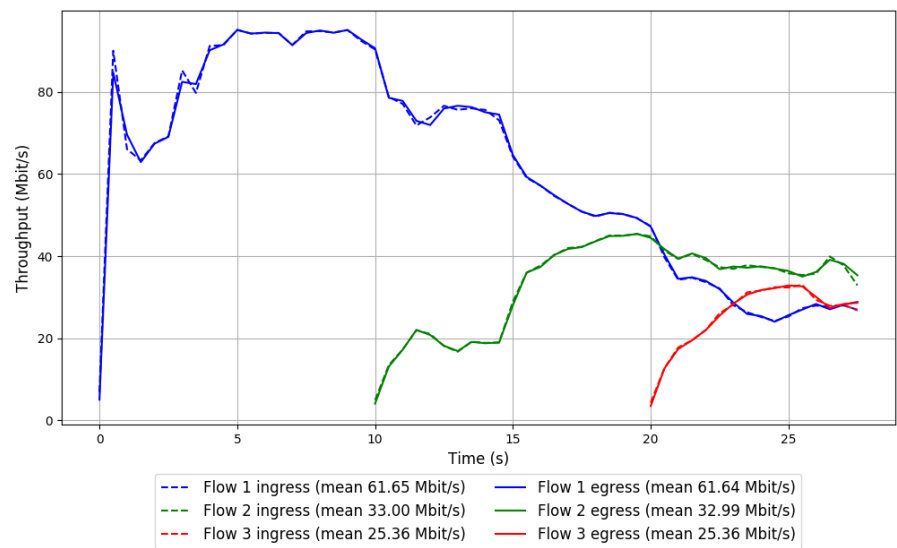


Run 9: Statistics of Copa

Start at: 2018-01-02 13:47:39
End at: 2018-01-02 13:48:09
Local clock offset: 0.585 ms
Remote clock offset: -0.583 ms

Below is generated by plot.py at 2018-01-02 14:58:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 90.03 Mbit/s
95th percentile per-packet one-way delay: 38.555 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 61.64 Mbit/s
95th percentile per-packet one-way delay: 39.091 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 32.99 Mbit/s
95th percentile per-packet one-way delay: 37.667 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 25.36 Mbit/s
95th percentile per-packet one-way delay: 37.399 ms
Loss rate: 0.00%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-01-02 14:08:50

End at: 2018-01-02 14:09:20

Local clock offset: 0.543 ms

Remote clock offset: -0.57 ms

Below is generated by plot.py at 2018-01-02 14:58:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.46 Mbit/s

95th percentile per-packet one-way delay: 37.233 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 66.31 Mbit/s

95th percentile per-packet one-way delay: 37.191 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 29.80 Mbit/s

95th percentile per-packet one-way delay: 37.522 ms

Loss rate: 0.01%

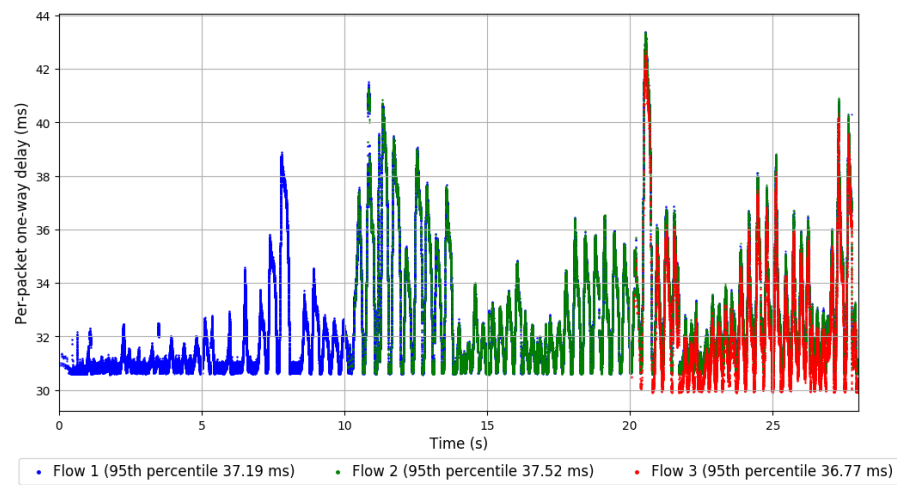
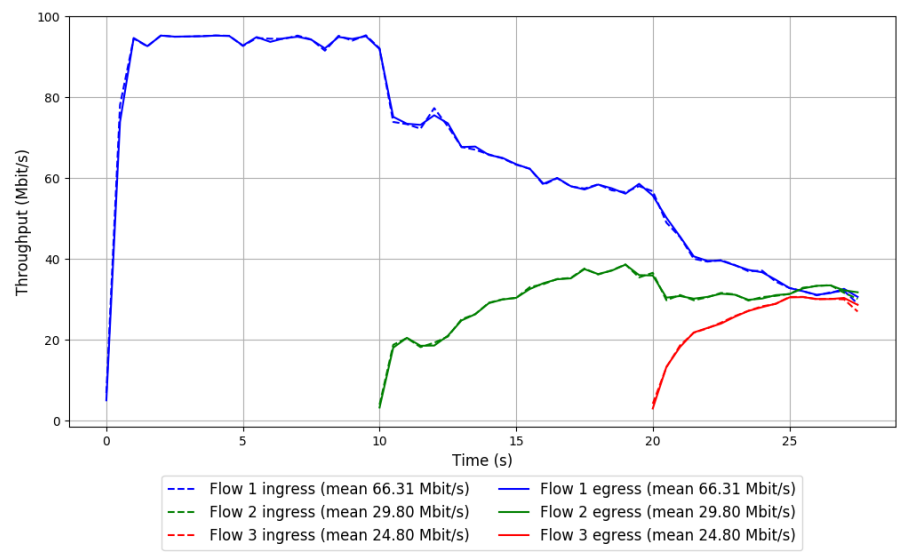
-- Flow 3:

Average throughput: 24.80 Mbit/s

95th percentile per-packet one-way delay: 36.767 ms

Loss rate: 0.00%

Run 10: Report of Copa — Data Link



Run 1: Statistics of FillP

Start at: 2018-01-02 10:50:16

End at: 2018-01-02 10:50:46

Local clock offset: 0.698 ms

Remote clock offset: 0.836 ms

Below is generated by plot.py at 2018-01-02 14:58:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.37 Mbit/s

95th percentile per-packet one-way delay: 69.243 ms

Loss rate: 30.29%

-- Flow 1:

Average throughput: 48.43 Mbit/s

95th percentile per-packet one-way delay: 69.128 ms

Loss rate: 26.69%

-- Flow 2:

Average throughput: 44.93 Mbit/s

95th percentile per-packet one-way delay: 69.321 ms

Loss rate: 31.72%

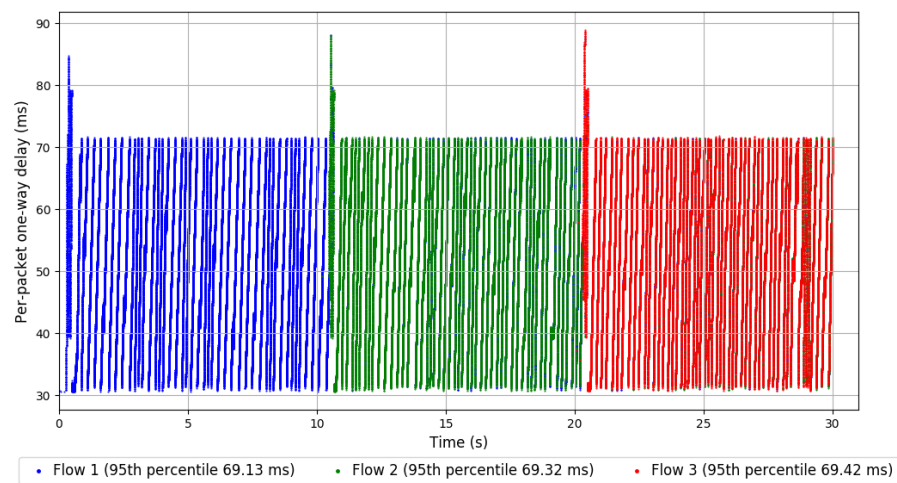
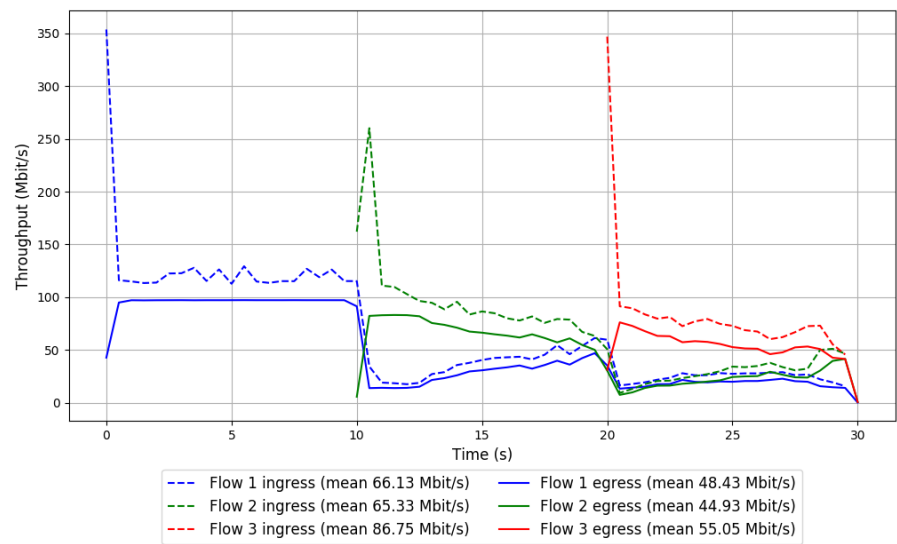
-- Flow 3:

Average throughput: 55.05 Mbit/s

95th percentile per-packet one-way delay: 69.420 ms

Loss rate: 36.39%

Run 1: Report of FillP — Data Link

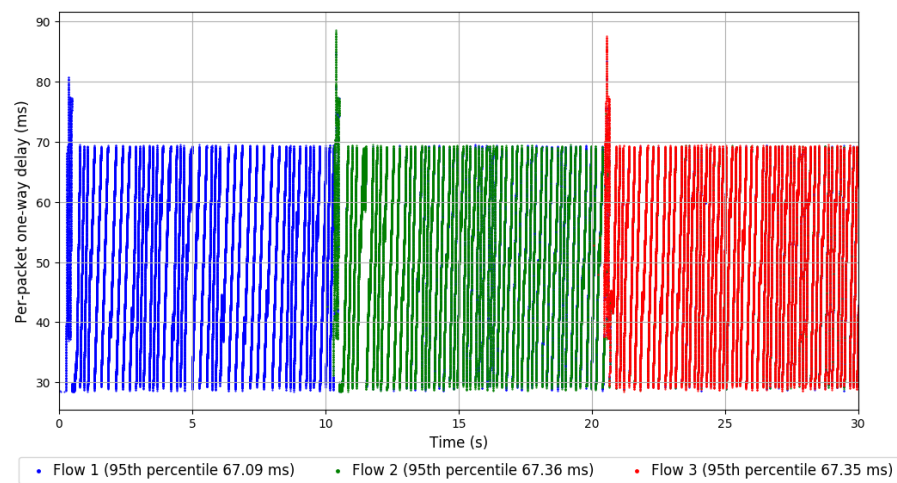
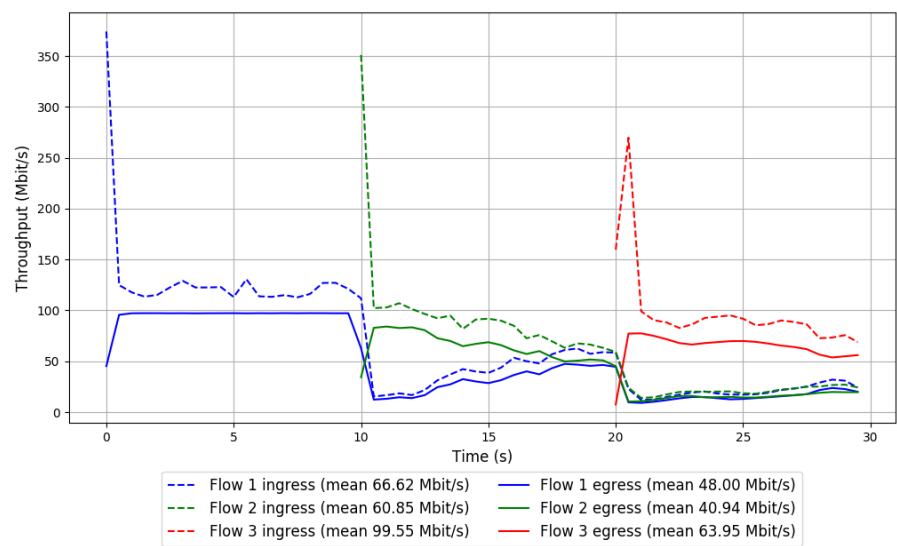


Run 2: Statistics of FillP

Start at: 2018-01-02 11:11:12
End at: 2018-01-02 11:11:42
Local clock offset: 0.828 ms
Remote clock offset: -1.984 ms

Below is generated by plot.py at 2018-01-02 14:58:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.41 Mbit/s
95th percentile per-packet one-way delay: 67.234 ms
Loss rate: 31.17%
-- Flow 1:
Average throughput: 48.00 Mbit/s
95th percentile per-packet one-way delay: 67.095 ms
Loss rate: 27.92%
-- Flow 2:
Average throughput: 40.94 Mbit/s
95th percentile per-packet one-way delay: 67.364 ms
Loss rate: 32.72%
-- Flow 3:
Average throughput: 63.95 Mbit/s
95th percentile per-packet one-way delay: 67.351 ms
Loss rate: 35.83%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-01-02 11:32:03

End at: 2018-01-02 11:32:33

Local clock offset: 0.907 ms

Remote clock offset: 0.536 ms

Below is generated by plot.py at 2018-01-02 14:58:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.31 Mbit/s

95th percentile per-packet one-way delay: 69.693 ms

Loss rate: 29.62%

-- Flow 1:

Average throughput: 51.31 Mbit/s

95th percentile per-packet one-way delay: 69.559 ms

Loss rate: 26.51%

-- Flow 2:

Average throughput: 37.06 Mbit/s

95th percentile per-packet one-way delay: 69.779 ms

Loss rate: 31.35%

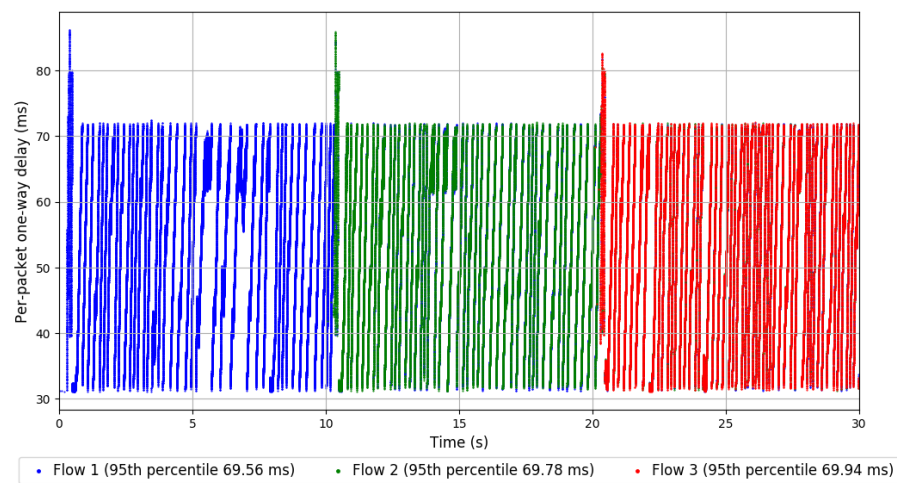
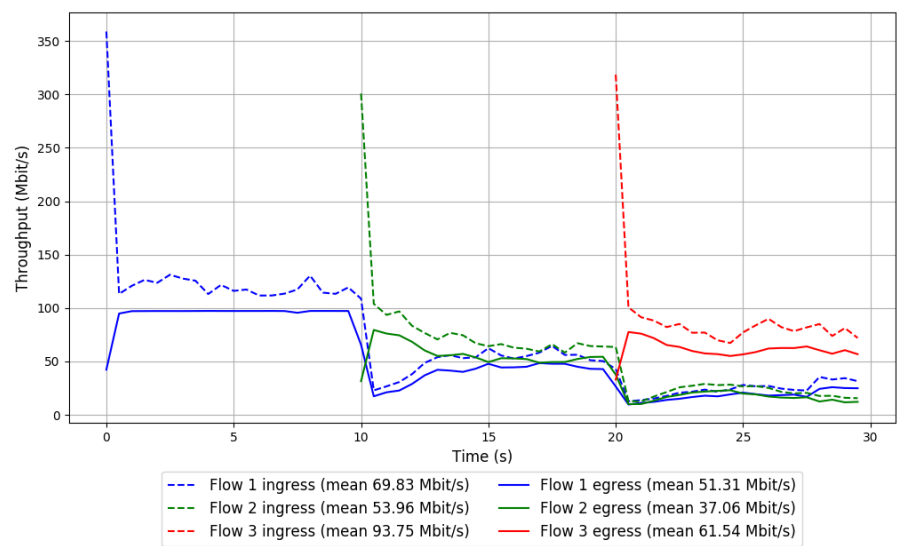
-- Flow 3:

Average throughput: 61.54 Mbit/s

95th percentile per-packet one-way delay: 69.935 ms

Loss rate: 34.59%

Run 3: Report of FillP — Data Link

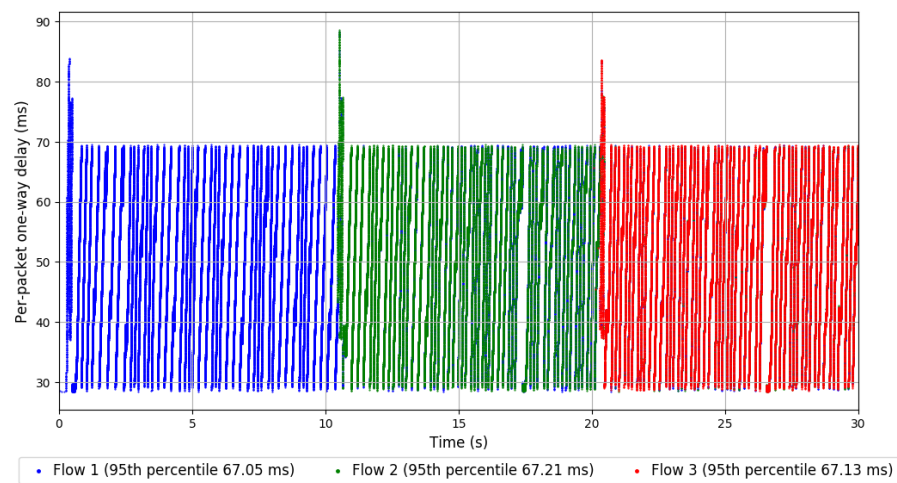
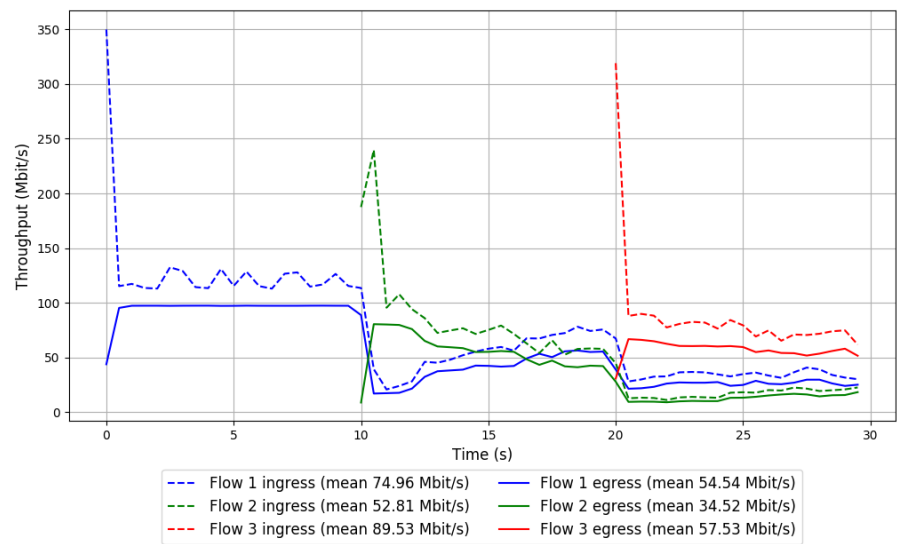


Run 4: Statistics of FillP

Start at: 2018-01-02 11:53:06
End at: 2018-01-02 11:53:36
Local clock offset: 0.988 ms
Remote clock offset: -1.946 ms

Below is generated by plot.py at 2018-01-02 14:58:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.36 Mbit/s
95th percentile per-packet one-way delay: 67.098 ms
Loss rate: 31.06%
-- Flow 1:
Average throughput: 54.54 Mbit/s
95th percentile per-packet one-way delay: 67.053 ms
Loss rate: 27.21%
-- Flow 2:
Average throughput: 34.52 Mbit/s
95th percentile per-packet one-way delay: 67.206 ms
Loss rate: 35.16%
-- Flow 3:
Average throughput: 57.53 Mbit/s
95th percentile per-packet one-way delay: 67.133 ms
Loss rate: 35.89%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-01-02 12:13:58

End at: 2018-01-02 12:14:28

Local clock offset: 0.951 ms

Remote clock offset: 0.337 ms

Below is generated by plot.py at 2018-01-02 14:58:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.52 Mbit/s

95th percentile per-packet one-way delay: 69.147 ms

Loss rate: 31.46%

-- Flow 1:

Average throughput: 49.85 Mbit/s

95th percentile per-packet one-way delay: 68.883 ms

Loss rate: 28.31%

-- Flow 2:

Average throughput: 38.79 Mbit/s

95th percentile per-packet one-way delay: 69.736 ms

Loss rate: 33.89%

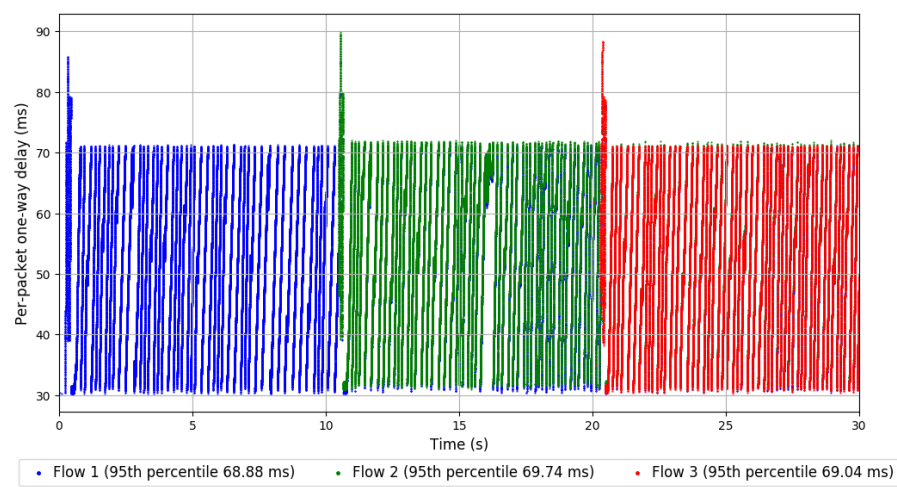
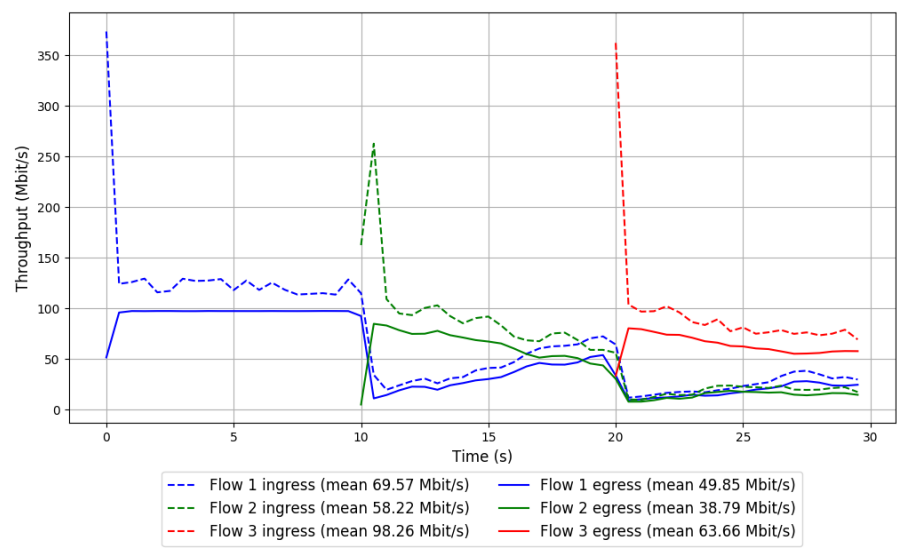
-- Flow 3:

Average throughput: 63.66 Mbit/s

95th percentile per-packet one-way delay: 69.037 ms

Loss rate: 35.29%

Run 5: Report of FillP — Data Link

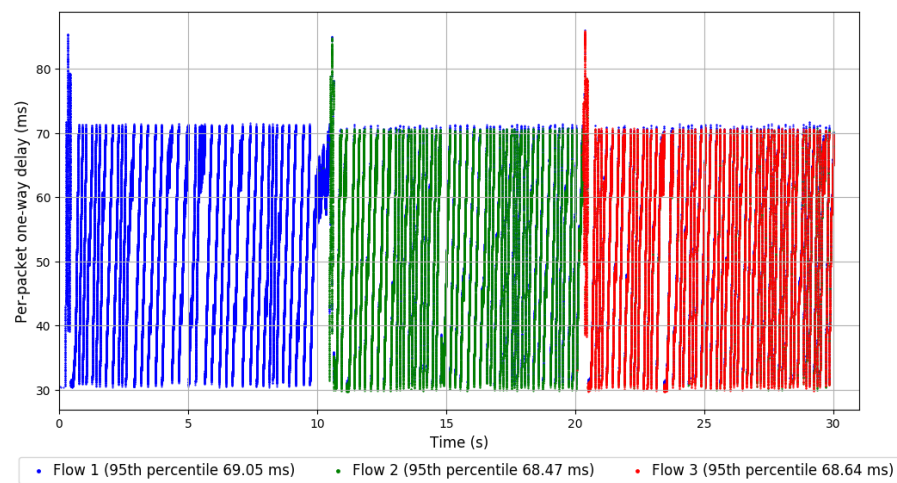
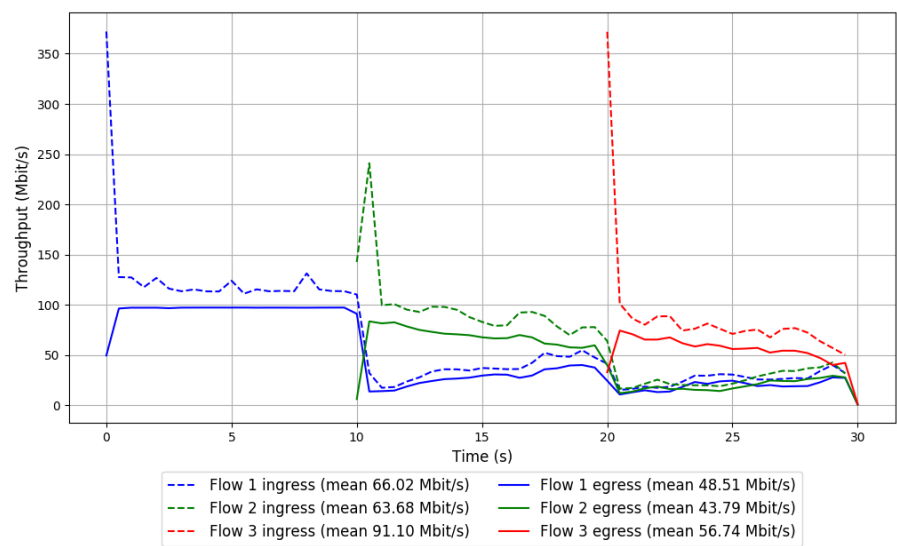


Run 6: Statistics of FillP

Start at: 2018-01-02 12:34:45
End at: 2018-01-02 12:35:15
Local clock offset: 0.872 ms
Remote clock offset: -0.295 ms

Below is generated by plot.py at 2018-01-02 14:59:31
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.47 Mbit/s
95th percentile per-packet one-way delay: 68.801 ms
Loss rate: 30.32%
-- Flow 1:
Average throughput: 48.51 Mbit/s
95th percentile per-packet one-way delay: 69.052 ms
Loss rate: 26.44%
-- Flow 2:
Average throughput: 43.79 Mbit/s
95th percentile per-packet one-way delay: 68.466 ms
Loss rate: 31.23%
-- Flow 3:
Average throughput: 56.74 Mbit/s
95th percentile per-packet one-way delay: 68.644 ms
Loss rate: 37.53%

Run 6: Report of FillP — Data Link

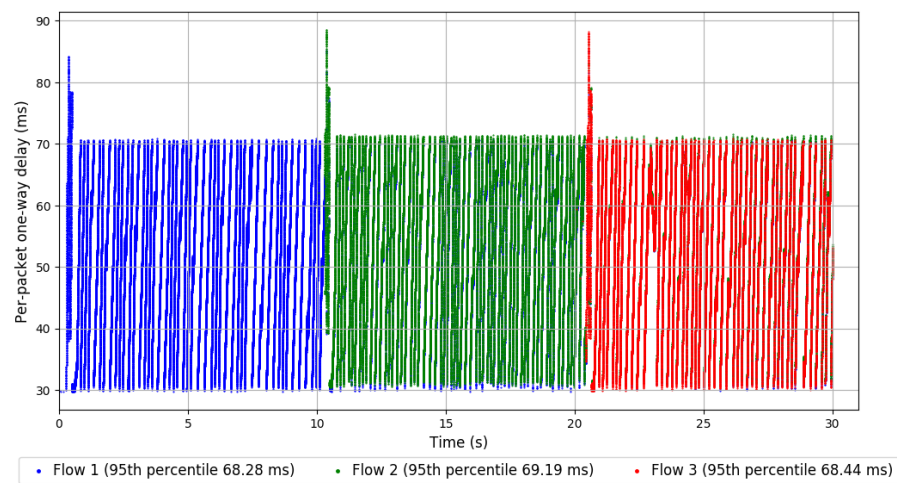
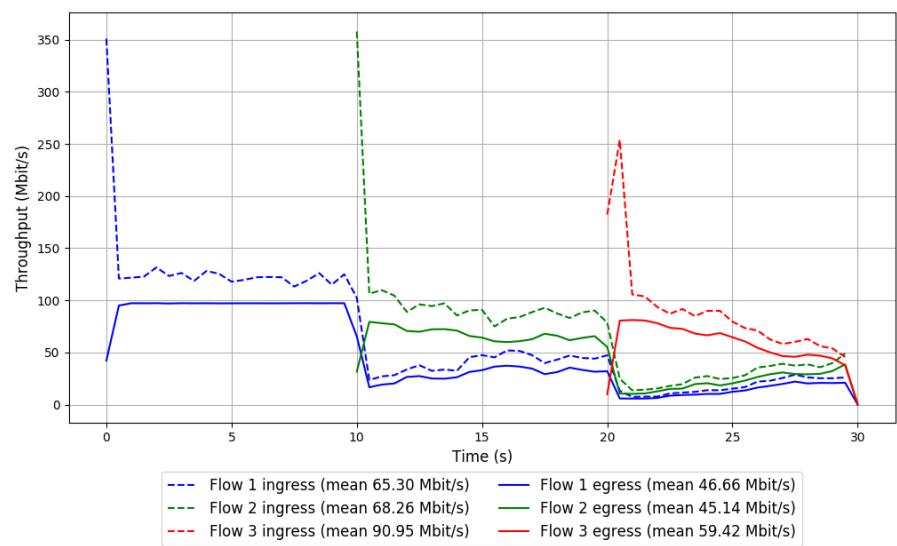


Run 7: Statistics of FillP

Start at: 2018-01-02 12:55:26
End at: 2018-01-02 12:55:56
Local clock offset: 0.887 ms
Remote clock offset: -0.868 ms

Below is generated by plot.py at 2018-01-02 15:00:03
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.35 Mbit/s
95th percentile per-packet one-way delay: 68.601 ms
Loss rate: 31.57%
-- Flow 1:
Average throughput: 46.66 Mbit/s
95th percentile per-packet one-way delay: 68.280 ms
Loss rate: 28.49%
-- Flow 2:
Average throughput: 45.14 Mbit/s
95th percentile per-packet one-way delay: 69.192 ms
Loss rate: 33.91%
-- Flow 3:
Average throughput: 59.42 Mbit/s
95th percentile per-packet one-way delay: 68.439 ms
Loss rate: 34.71%

Run 7: Report of FillP — Data Link

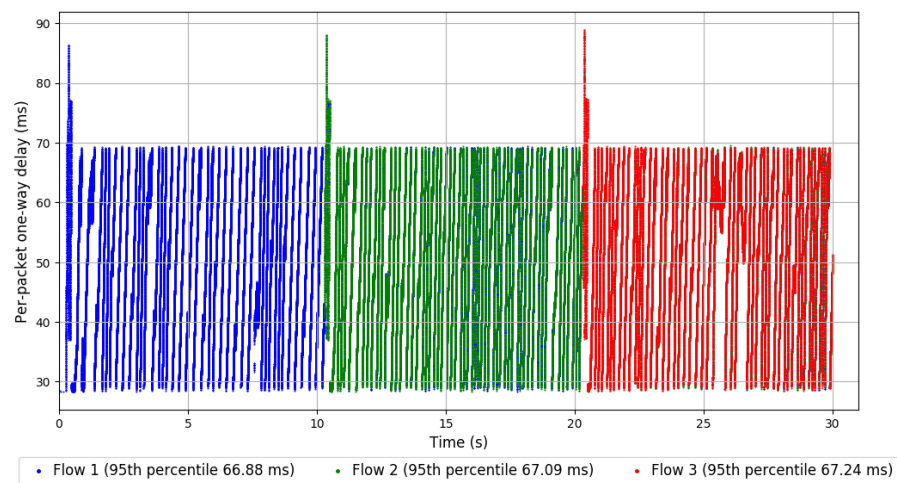
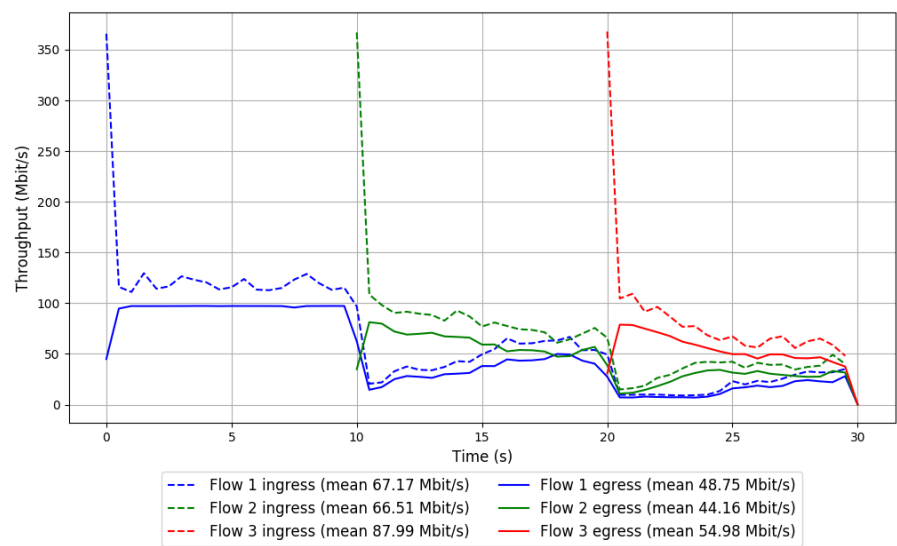


Run 8: Statistics of FillP

Start at: 2018-01-02 13:16:07
End at: 2018-01-02 13:16:37
Local clock offset: 0.962 ms
Remote clock offset: -3.159 ms

Below is generated by plot.py at 2018-01-02 15:00:06
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.36 Mbit/s
95th percentile per-packet one-way delay: 67.017 ms
Loss rate: 31.42%
-- Flow 1:
Average throughput: 48.75 Mbit/s
95th percentile per-packet one-way delay: 66.880 ms
Loss rate: 27.38%
-- Flow 2:
Average throughput: 44.16 Mbit/s
95th percentile per-packet one-way delay: 67.089 ms
Loss rate: 33.59%
-- Flow 3:
Average throughput: 54.98 Mbit/s
95th percentile per-packet one-way delay: 67.241 ms
Loss rate: 37.42%

Run 8: Report of FillP — Data Link

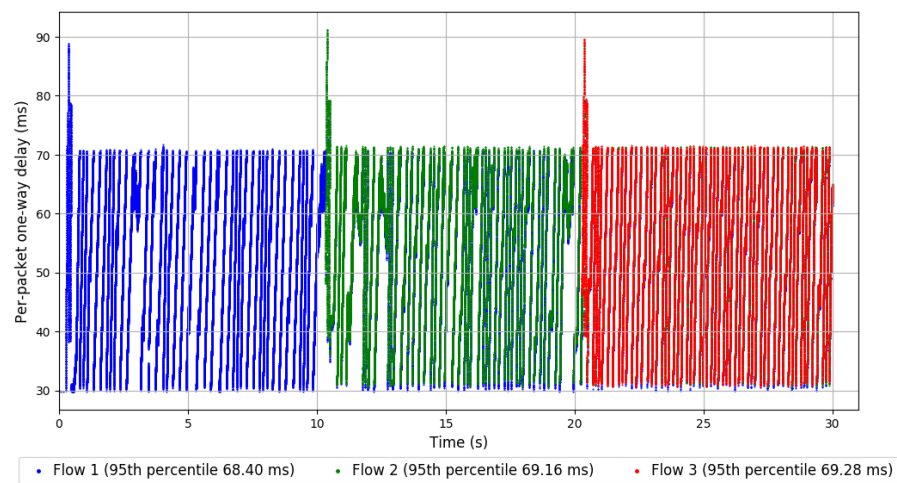
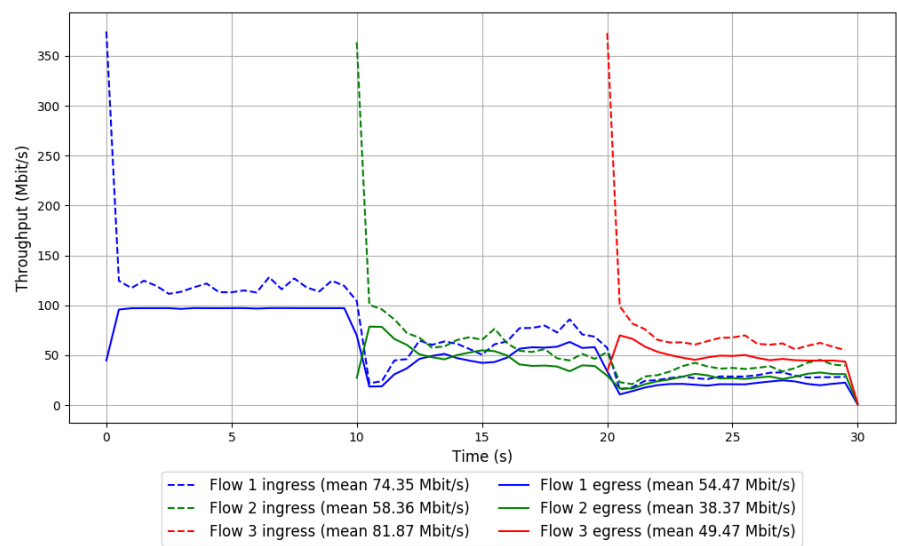


Run 9: Statistics of FillP

Start at: 2018-01-02 13:36:48
End at: 2018-01-02 13:37:18
Local clock offset: 0.782 ms
Remote clock offset: -0.872 ms

Below is generated by plot.py at 2018-01-02 15:00:10
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.42 Mbit/s
95th percentile per-packet one-way delay: 68.751 ms
Loss rate: 31.23%
-- Flow 1:
Average throughput: 54.47 Mbit/s
95th percentile per-packet one-way delay: 68.403 ms
Loss rate: 26.65%
-- Flow 2:
Average throughput: 38.37 Mbit/s
95th percentile per-packet one-way delay: 69.158 ms
Loss rate: 34.25%
-- Flow 3:
Average throughput: 49.47 Mbit/s
95th percentile per-packet one-way delay: 69.282 ms
Loss rate: 39.42%

Run 9: Report of FillP — Data Link

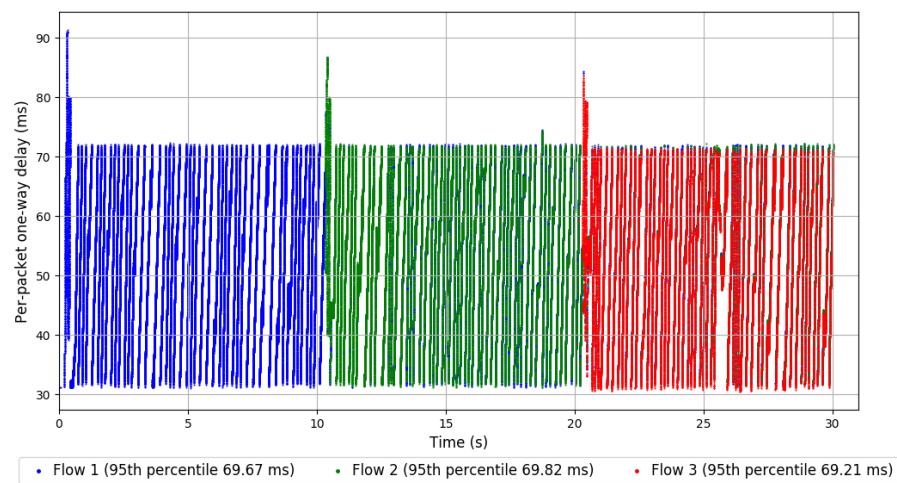
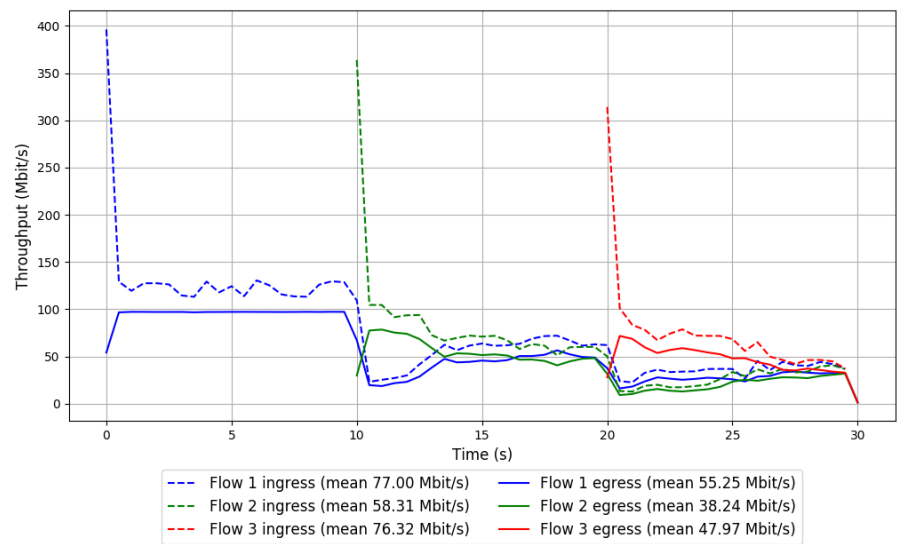


Run 10: Statistics of FillP

Start at: 2018-01-02 13:57:46
End at: 2018-01-02 13:58:16
Local clock offset: 0.454 ms
Remote clock offset: -0.006 ms

Below is generated by plot.py at 2018-01-02 15:00:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.60 Mbit/s
95th percentile per-packet one-way delay: 69.630 ms
Loss rate: 31.46%
-- Flow 1:
Average throughput: 55.25 Mbit/s
95th percentile per-packet one-way delay: 69.675 ms
Loss rate: 28.15%
-- Flow 2:
Average throughput: 38.24 Mbit/s
95th percentile per-packet one-way delay: 69.817 ms
Loss rate: 34.43%
-- Flow 3:
Average throughput: 47.97 Mbit/s
95th percentile per-packet one-way delay: 69.209 ms
Loss rate: 36.95%

Run 10: Report of FillP — Data Link

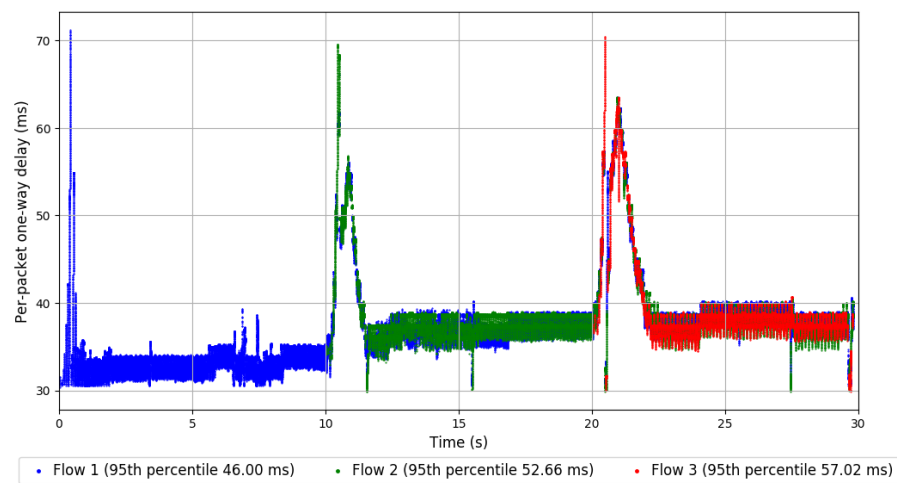
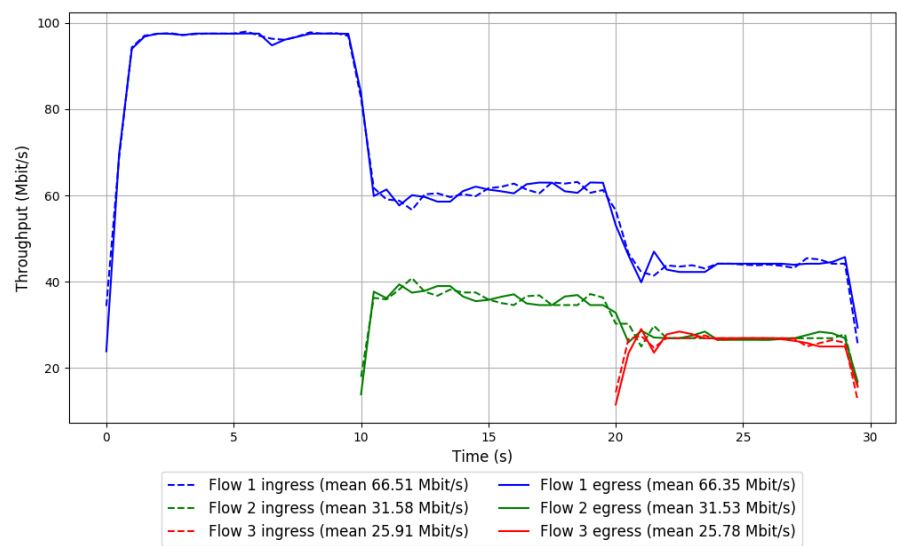


```
Run 1: Statistics of Indigo

Start at: 2018-01-02 10:54:22
End at: 2018-01-02 10:54:52
Local clock offset: 0.816 ms
Remote clock offset: 0.603 ms

# Below is generated by plot.py at 2018-01-02 15:00:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.68 Mbit/s
95th percentile per-packet one-way delay: 49.656 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 66.35 Mbit/s
95th percentile per-packet one-way delay: 46.003 ms
Loss rate: 0.22%
-- Flow 2:
Average throughput: 31.53 Mbit/s
95th percentile per-packet one-way delay: 52.660 ms
Loss rate: 0.14%
-- Flow 3:
Average throughput: 25.78 Mbit/s
95th percentile per-packet one-way delay: 57.021 ms
Loss rate: 0.46%
```

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2018-01-02 11:15:15

End at: 2018-01-02 11:15:45

Local clock offset: 0.95 ms

Remote clock offset: 0.449 ms

Below is generated by plot.py at 2018-01-02 15:00:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.46 Mbit/s

95th percentile per-packet one-way delay: 48.376 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 63.85 Mbit/s

95th percentile per-packet one-way delay: 47.740 ms

Loss rate: 0.11%

-- Flow 2:

Average throughput: 32.39 Mbit/s

95th percentile per-packet one-way delay: 49.504 ms

Loss rate: 0.00%

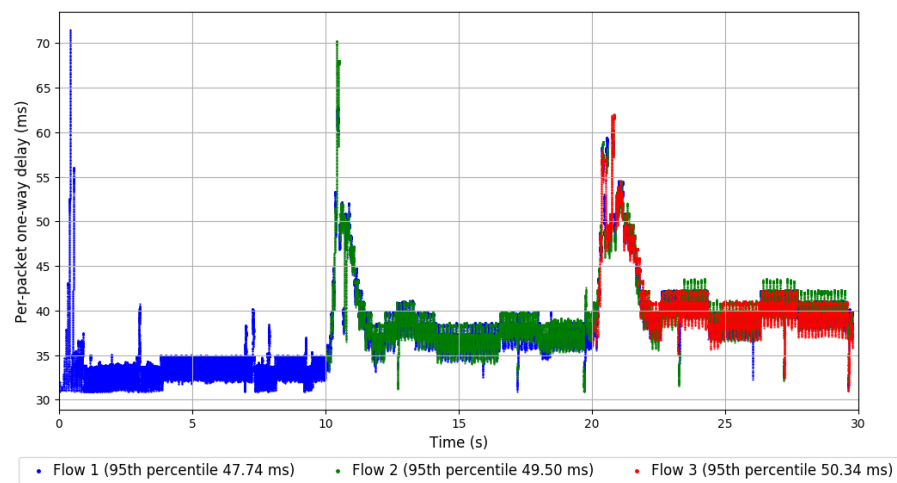
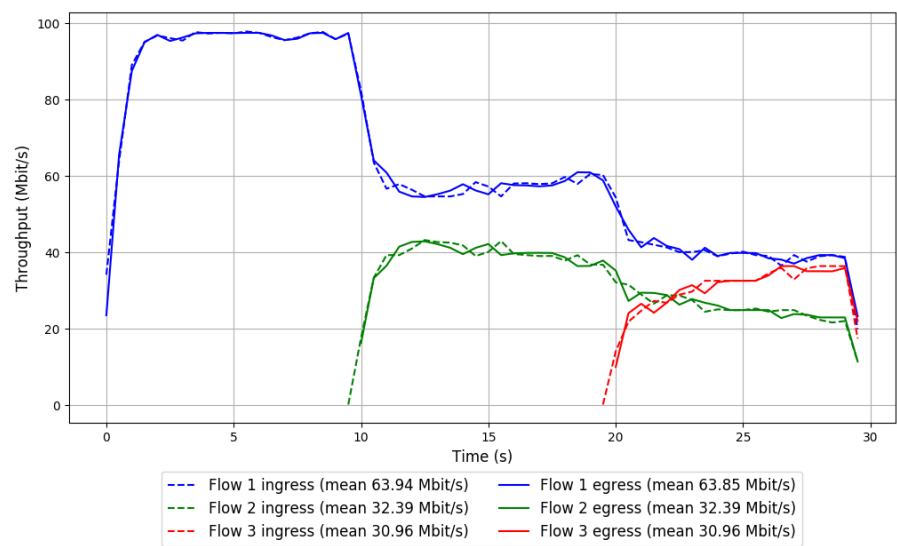
-- Flow 3:

Average throughput: 30.96 Mbit/s

95th percentile per-packet one-way delay: 50.340 ms

Loss rate: 0.00%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2018-01-02 11:36:12

End at: 2018-01-02 11:36:42

Local clock offset: 1.018 ms

Remote clock offset: 0.491 ms

Below is generated by plot.py at 2018-01-02 15:00:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.76 Mbit/s

95th percentile per-packet one-way delay: 46.696 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 66.03 Mbit/s

95th percentile per-packet one-way delay: 45.130 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 28.42 Mbit/s

95th percentile per-packet one-way delay: 49.400 ms

Loss rate: 0.00%

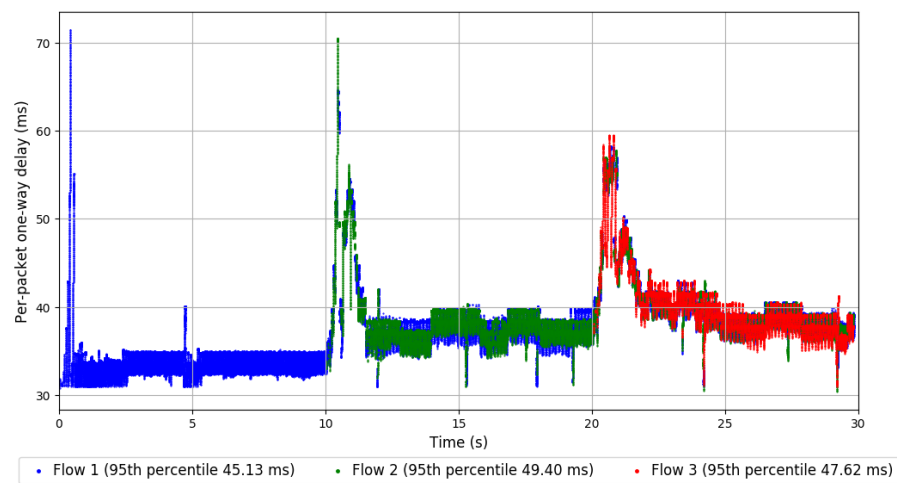
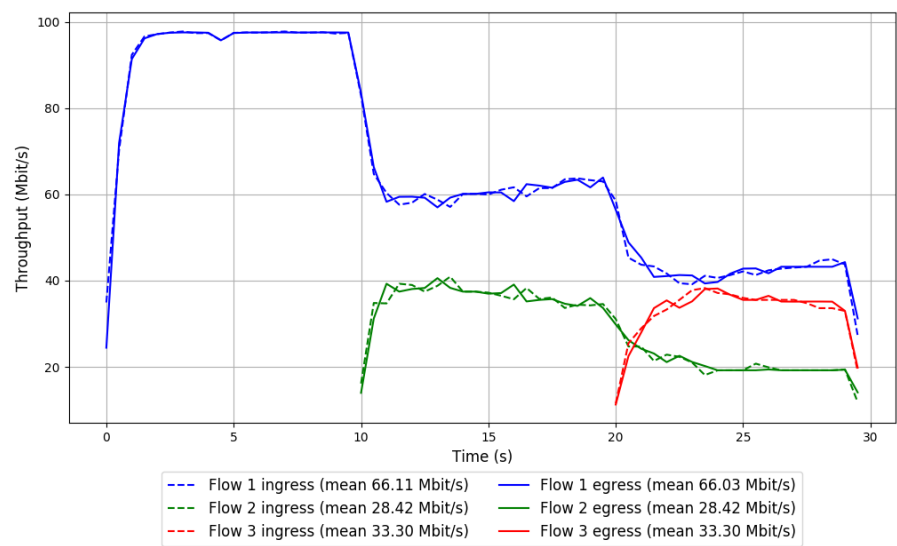
-- Flow 3:

Average throughput: 33.30 Mbit/s

95th percentile per-packet one-way delay: 47.616 ms

Loss rate: 0.00%

Run 3: Report of Indigo — Data Link

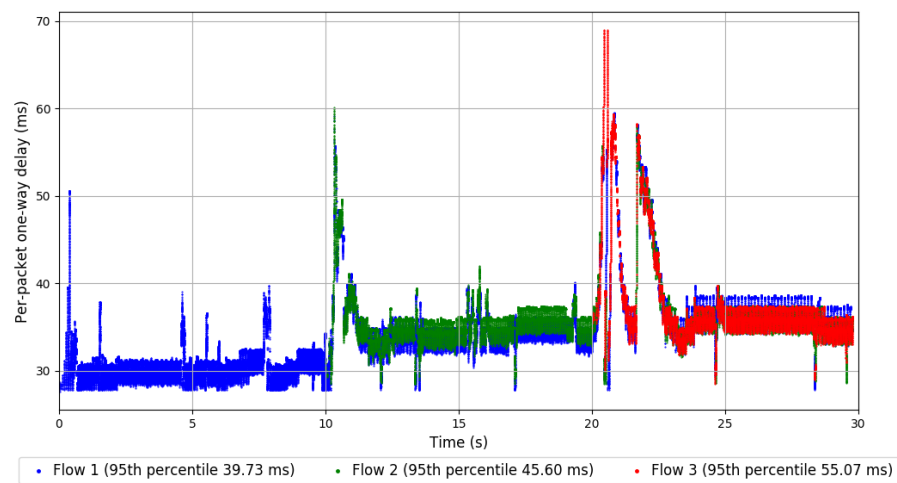
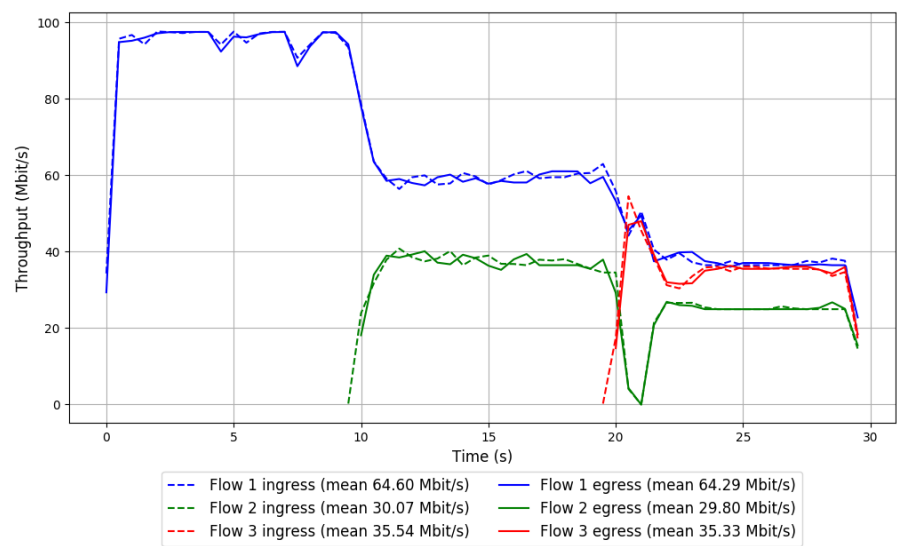


Run 4: Statistics of Indigo

Start at: 2018-01-02 11:57:10
End at: 2018-01-02 11:57:40
Local clock offset: 0.905 ms
Remote clock offset: -2.066 ms

Below is generated by plot.py at 2018-01-02 15:00:52
Datalink statistics
-- Total of 3 flows:
Average throughput: 95.65 Mbit/s
95th percentile per-packet one-way delay: 44.661 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 64.29 Mbit/s
95th percentile per-packet one-way delay: 39.731 ms
Loss rate: 0.45%
-- Flow 2:
Average throughput: 29.80 Mbit/s
95th percentile per-packet one-way delay: 45.602 ms
Loss rate: 0.84%
-- Flow 3:
Average throughput: 35.33 Mbit/s
95th percentile per-packet one-way delay: 55.070 ms
Loss rate: 0.57%

Run 4: Report of Indigo — Data Link

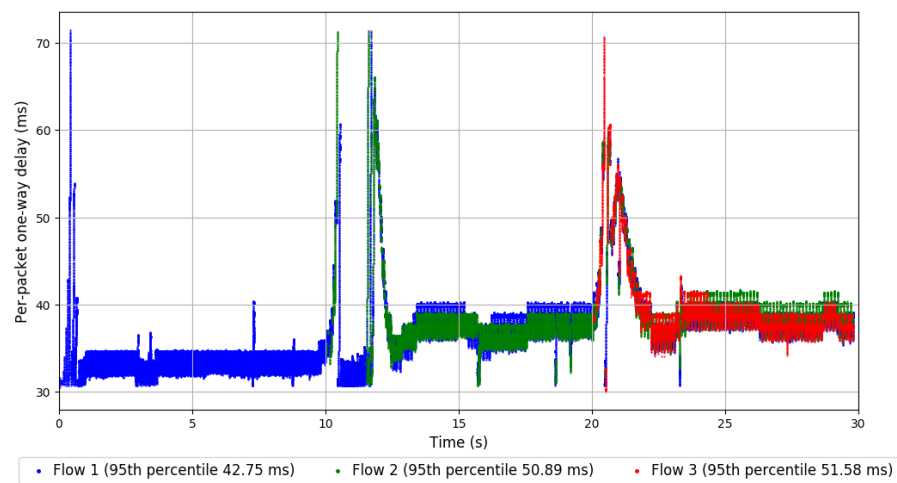
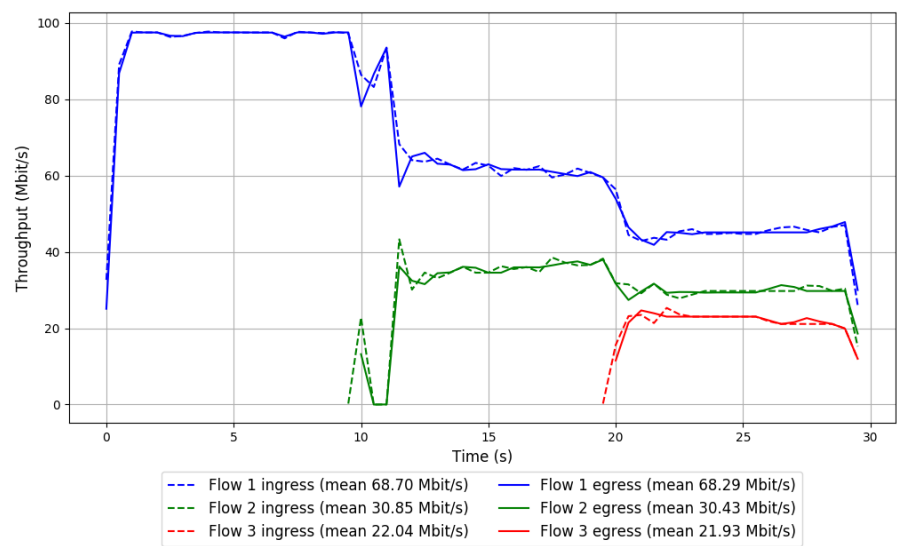


Run 5: Statistics of Indigo

Start at: 2018-01-02 12:18:05
End at: 2018-01-02 12:18:35
Local clock offset: 0.801 ms
Remote clock offset: -0.088 ms

Below is generated by plot.py at 2018-01-02 15:01:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 95.67 Mbit/s
95th percentile per-packet one-way delay: 46.181 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 68.29 Mbit/s
95th percentile per-packet one-way delay: 42.746 ms
Loss rate: 0.57%
-- Flow 2:
Average throughput: 30.43 Mbit/s
95th percentile per-packet one-way delay: 50.892 ms
Loss rate: 1.33%
-- Flow 3:
Average throughput: 21.93 Mbit/s
95th percentile per-packet one-way delay: 51.577 ms
Loss rate: 0.53%

Run 5: Report of Indigo — Data Link

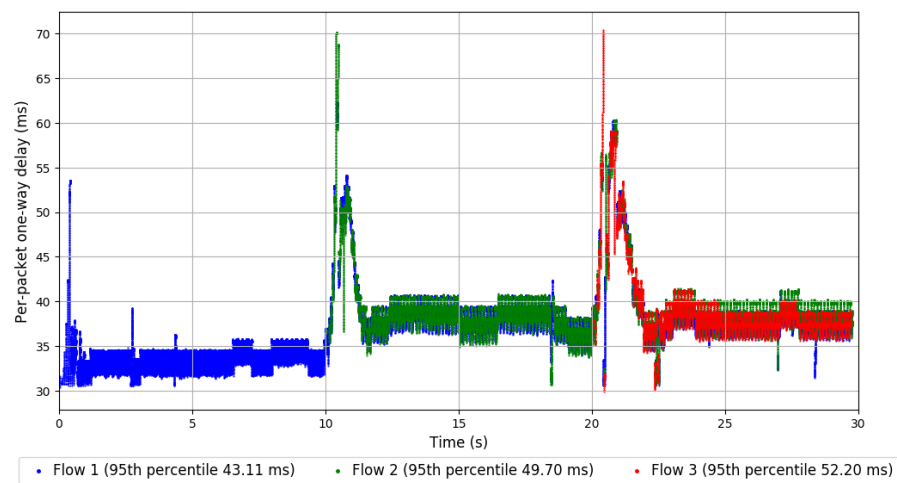
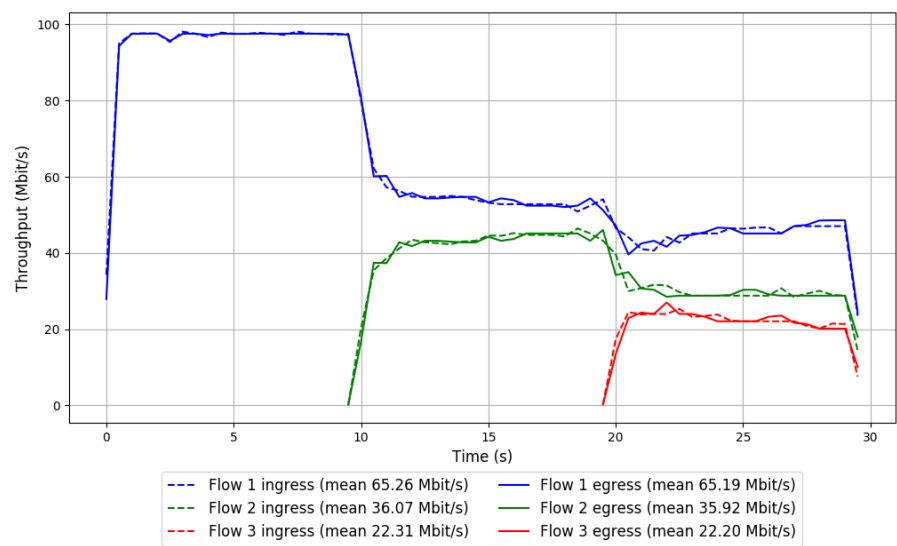


Run 6: Statistics of Indigo

Start at: 2018-01-02 12:38:57
End at: 2018-01-02 12:39:27
Local clock offset: 0.769 ms
Remote clock offset: -0.321 ms

Below is generated by plot.py at 2018-01-02 15:01:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.31 Mbit/s
95th percentile per-packet one-way delay: 47.234 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 65.19 Mbit/s
95th percentile per-packet one-way delay: 43.108 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 35.92 Mbit/s
95th percentile per-packet one-way delay: 49.700 ms
Loss rate: 0.41%
-- Flow 3:
Average throughput: 22.20 Mbit/s
95th percentile per-packet one-way delay: 52.205 ms
Loss rate: 0.46%

Run 6: Report of Indigo — Data Link

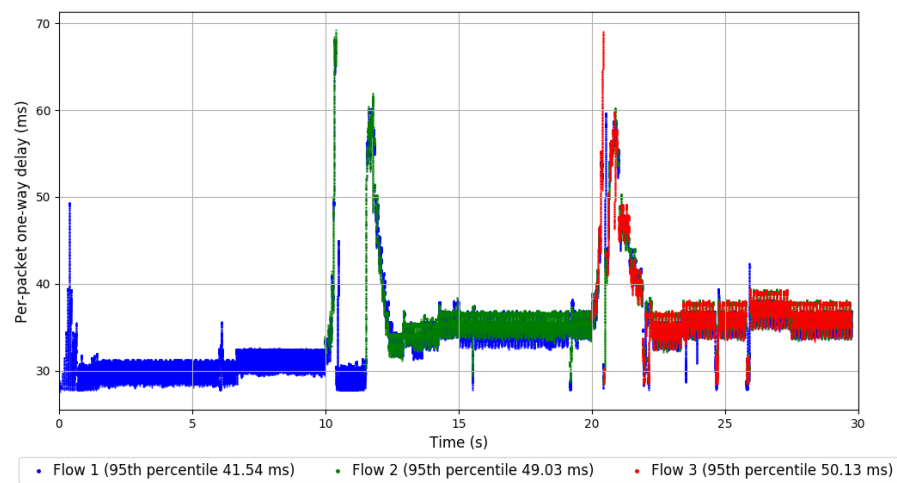
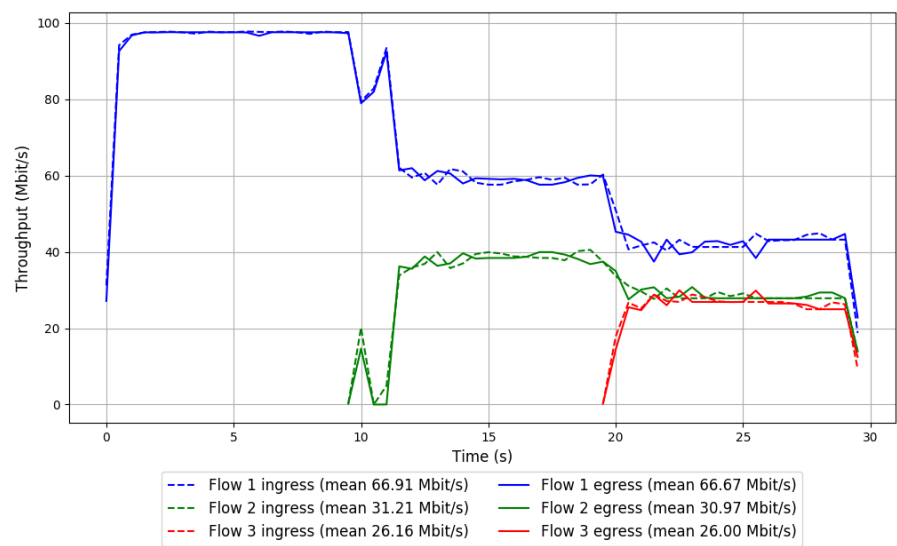


Run 7: Statistics of Indigo

Start at: 2018-01-02 12:59:30
End at: 2018-01-02 13:00:00
Local clock offset: 0.845 ms
Remote clock offset: -3.074 ms

```
# Below is generated by plot.py at 2018-01-02 15:01:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.78 Mbit/s
95th percentile per-packet one-way delay: 45.208 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 66.67 Mbit/s
95th percentile per-packet one-way delay: 41.544 ms
Loss rate: 0.33%
-- Flow 2:
Average throughput: 30.97 Mbit/s
95th percentile per-packet one-way delay: 49.026 ms
Loss rate: 0.76%
-- Flow 3:
Average throughput: 26.00 Mbit/s
95th percentile per-packet one-way delay: 50.126 ms
Loss rate: 0.62%
```

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2018-01-02 13:20:12

End at: 2018-01-02 13:20:42

Local clock offset: 0.95 ms

Remote clock offset: -3.2 ms

Below is generated by plot.py at 2018-01-02 15:01:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.40 Mbit/s

95th percentile per-packet one-way delay: 44.306 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 64.95 Mbit/s

95th percentile per-packet one-way delay: 40.823 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 31.70 Mbit/s

95th percentile per-packet one-way delay: 46.116 ms

Loss rate: 0.00%

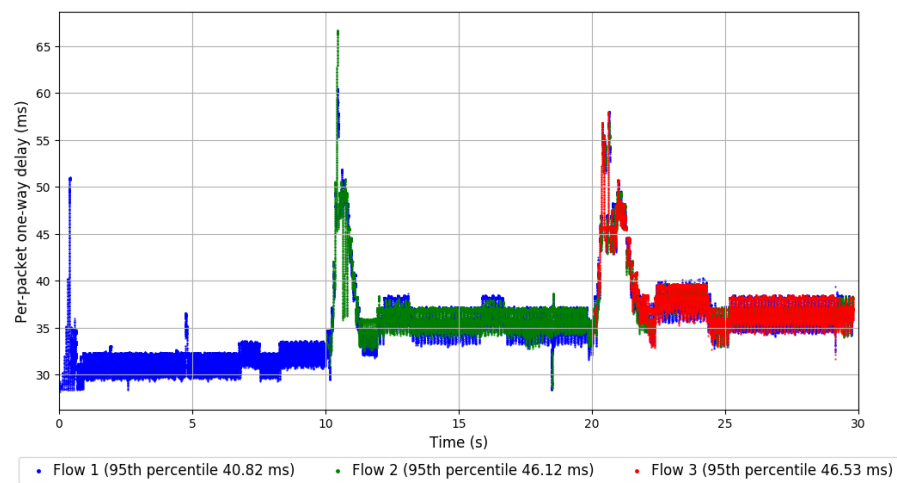
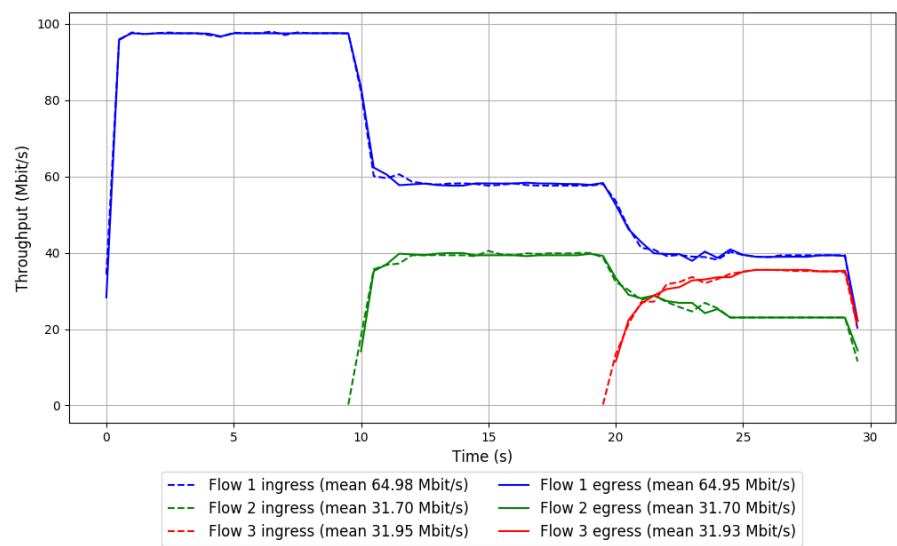
-- Flow 3:

Average throughput: 31.93 Mbit/s

95th percentile per-packet one-way delay: 46.529 ms

Loss rate: 0.00%

Run 8: Report of Indigo — Data Link

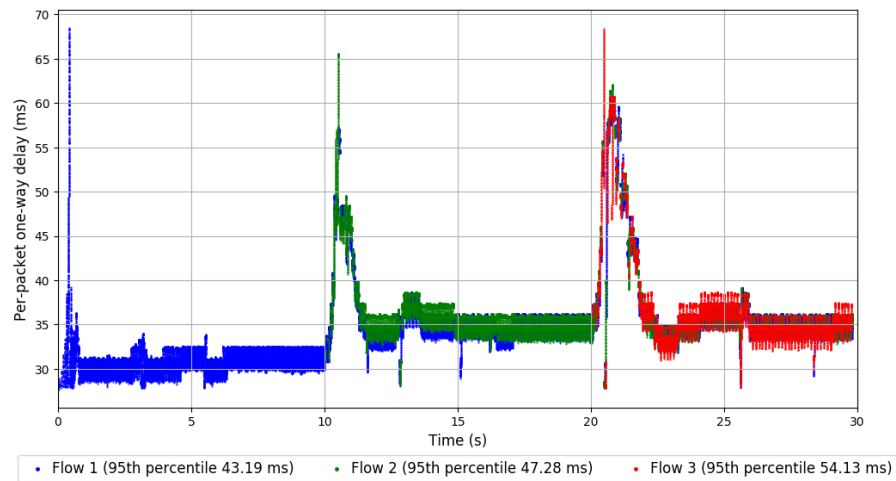
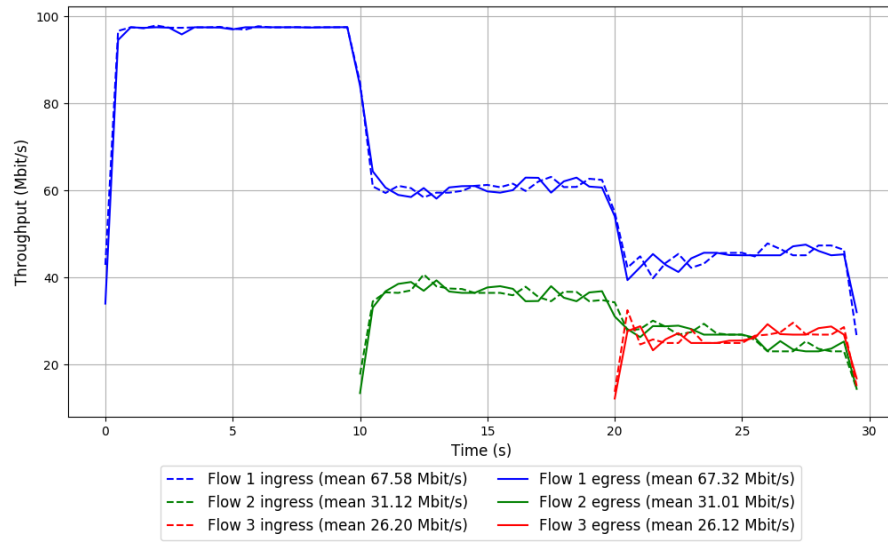


Run 9: Statistics of Indigo

Start at: 2018-01-02 13:40:52
End at: 2018-01-02 13:41:22
Local clock offset: 0.694 ms
Remote clock offset: -2.782 ms

Below is generated by plot.py at 2018-01-02 15:01:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.42 Mbit/s
95th percentile per-packet one-way delay: 45.779 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 67.32 Mbit/s
95th percentile per-packet one-way delay: 43.192 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 31.01 Mbit/s
95th percentile per-packet one-way delay: 47.280 ms
Loss rate: 0.32%
-- Flow 3:
Average throughput: 26.12 Mbit/s
95th percentile per-packet one-way delay: 54.135 ms
Loss rate: 0.31%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2018-01-02 14:01:55
End at: 2018-01-02 14:02:25
Local clock offset: 0.483 ms
Remote clock offset: -0.627 ms

Below is generated by plot.py at 2018-01-02 15:01:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 95.69 Mbit/s
95th percentile per-packet one-way delay: 45.241 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 69.79 Mbit/s
95th percentile per-packet one-way delay: 43.199 ms
Loss rate: 0.30%
-- Flow 2:
Average throughput: 25.91 Mbit/s
95th percentile per-packet one-way delay: 47.136 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 26.73 Mbit/s
95th percentile per-packet one-way delay: 53.782 ms
Loss rate: 0.40%

Run 10: Report of Indigo — Data Link

