

Pantheon Report

Generated at 2018-04-11 02:25:39 (UTC).

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

Repeated the test of 17 congestion control schemes 10 times.

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

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

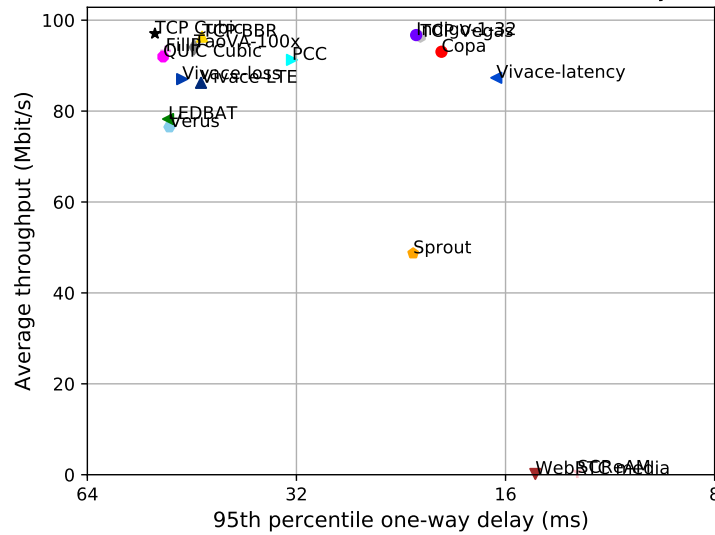
Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo_fast**).

NTP offsets were measured against **nets.org.sg** and have been applied to correct the timestamps in logs.

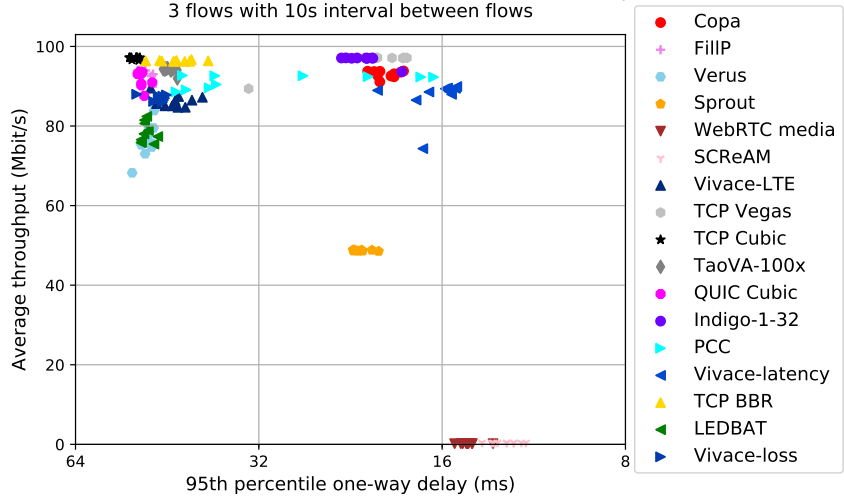
Git summary:

```
branch: master @ eb420b5be9bafccd22cf68b99ff5a2000462fc59
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
M datagrump/sender.cc
third_party/fillp @ 11f8c46a2bf1dc797253db7e8ca04076272b2a44
third_party/genericCC @ 9249eea3238475c4d8cca1443d28df70bff6c4a2
third_party/indigo @ a9b2060d39e4da2e8987e893e3eca2a6c7cd0ab9
third_party/indigo-1-layer-128-unit @ 3ae9e4ef4230db7484501f82ce8b377695f2f66d
third_party/indigo-1-layer-32-unit @ 2601c92e4aa9d58d38dc4dfe0ecd9c077e64d
third_party/indigo-1-layer-32-unit-no-calib @ 1f3a7f75b41135ed5b540c0fd3505939528e2a5f
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ fb1053193c2861da659ba9013db26744ccfcf993
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eae30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/vivace @ 7a4ba531e75b4a6f66f5c4580192120401784ce3
third_party/webrtc @ f271183af822eee5d0031620f4bebf38aedc5581
```

test from AWS India 1 Ethernet to India Ethernet, 10 runs of 30s each per scheme
3 flows with 10s interval between flows (mean of all runs by scheme)



test from AWS India 1 Ethernet to India 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	54.77	43.10	38.85	42.15	44.95	45.21	1.19	2.23	2.09
TCP Cubic	10	72.86	28.15	16.50	51.10	51.14	51.62	0.87	1.08	0.89
LEDBAT	10	47.14	33.49	26.67	48.75	49.11	49.37	0.45	0.58	0.76
PCC	10	80.59	10.33	11.58	31.82	34.27	35.95	1.05	1.08	1.76
QUIC Cubic	10	65.09	29.61	22.17	49.73	49.83	49.76	1.74	2.37	2.82
SCReAM	10	0.21	0.21	0.22	12.24	12.38	12.51	0.00	0.00	0.00
WebRTC media	10	0.06	0.06	0.05	14.23	14.49	14.74	0.00	0.00	0.00
Sprout	10	24.49	24.44	24.13	21.31	21.71	22.19	0.00	0.01	0.00
TaoVA-100x	10	56.19	40.38	32.99	42.19	45.89	48.48	3.85	8.94	19.32
TCP Vegas	10	52.57	42.55	46.55	22.27	17.97	15.12	0.27	0.00	0.00
Verus	10	52.54	27.22	19.98	48.46	50.02	47.52	33.87	38.16	33.50
Copa	10	57.34	38.91	29.55	19.31	19.89	20.59	0.00	0.00	0.00
FillP	10	56.31	33.57	44.02	48.13	50.72	47.29	13.40	25.00	20.60
Indigo-1-32	10	54.96	40.43	45.79	21.26	21.72	22.92	0.00	0.00	0.00
Vivace-latency	10	59.23	32.57	19.57	16.20	17.08	18.98	0.00	0.00	0.00
Vivace-loss	10	56.82	35.41	20.31	46.56	46.82	46.85	11.83	13.71	14.72
Vivace-LTE	10	56.27	34.08	22.12	40.92	45.89	47.03	1.52	2.15	3.23

Run 1: Statistics of TCP BBR

Start at: 2018-04-10 21:46:22

End at: 2018-04-10 21:46:52

Local clock offset: 0.196 ms

Remote clock offset: 0.949 ms

Below is generated by plot.py at 2018-04-11 01:56:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.29 Mbit/s

95th percentile per-packet one-way delay: 43.856 ms

Loss rate: 1.92%

-- Flow 1:

Average throughput: 51.81 Mbit/s

95th percentile per-packet one-way delay: 41.435 ms

Loss rate: 1.36%

-- Flow 2:

Average throughput: 44.31 Mbit/s

95th percentile per-packet one-way delay: 45.954 ms

Loss rate: 2.63%

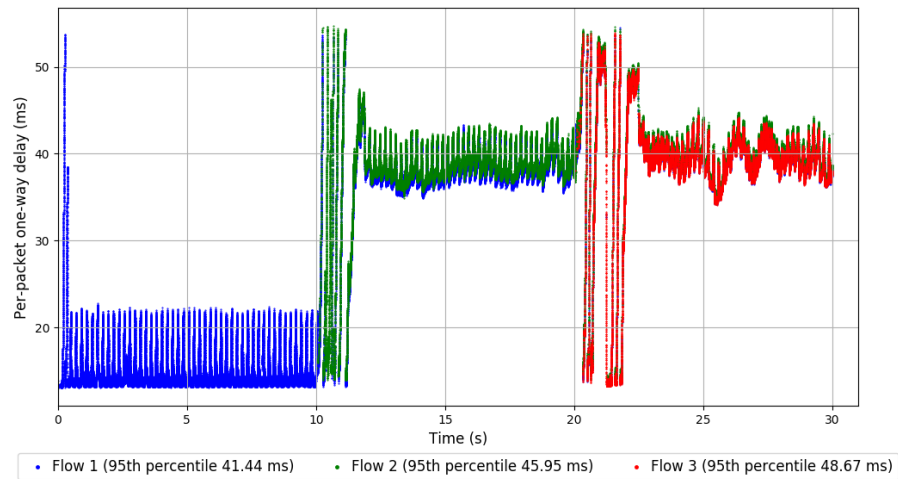
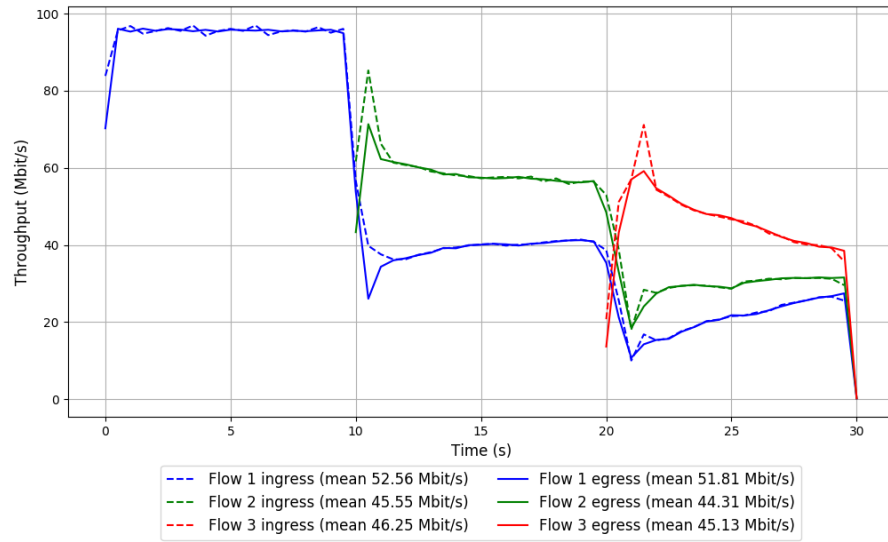
-- Flow 3:

Average throughput: 45.13 Mbit/s

95th percentile per-packet one-way delay: 48.673 ms

Loss rate: 2.42%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-04-10 22:08:21

End at: 2018-04-10 22:08:51

Local clock offset: 0.67 ms

Remote clock offset: -2.31 ms

Below is generated by plot.py at 2018-04-11 01:56:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.31 Mbit/s

95th percentile per-packet one-way delay: 46.164 ms

Loss rate: 1.88%

-- Flow 1:

Average throughput: 51.05 Mbit/s

95th percentile per-packet one-way delay: 43.796 ms

Loss rate: 1.28%

-- Flow 2:

Average throughput: 51.06 Mbit/s

95th percentile per-packet one-way delay: 47.692 ms

Loss rate: 2.37%

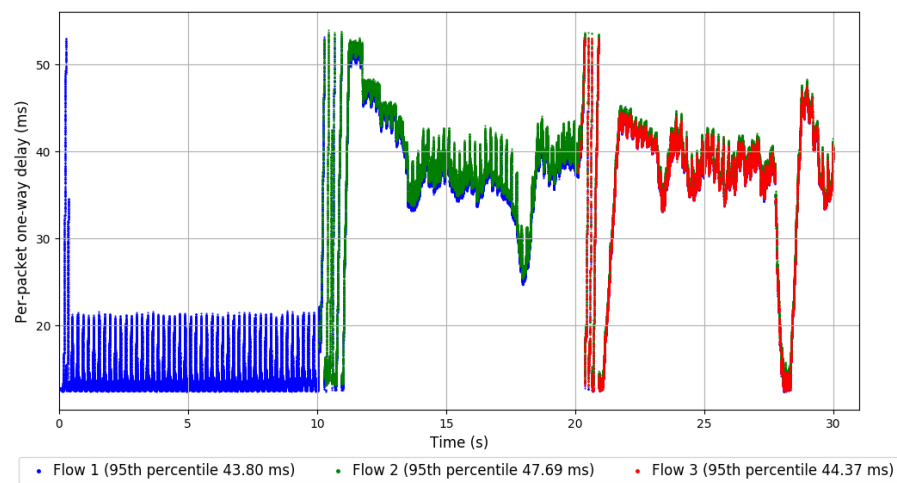
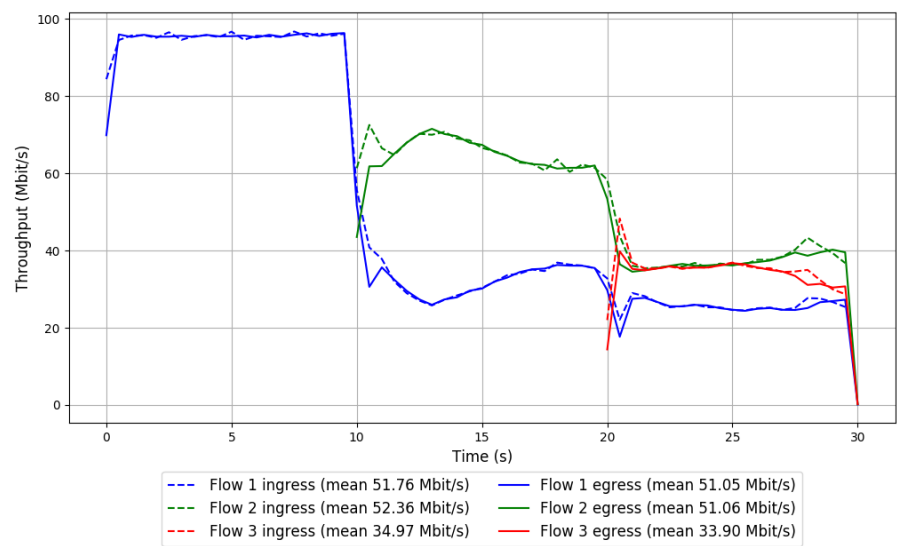
-- Flow 3:

Average throughput: 33.90 Mbit/s

95th percentile per-packet one-way delay: 44.369 ms

Loss rate: 3.07%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-04-10 22:30:20

End at: 2018-04-10 22:30:50

Local clock offset: -0.243 ms

Remote clock offset: 5.36 ms

Below is generated by plot.py at 2018-04-11 01:56:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.48 Mbit/s

95th percentile per-packet one-way delay: 43.689 ms

Loss rate: 1.56%

-- Flow 1:

Average throughput: 56.91 Mbit/s

95th percentile per-packet one-way delay: 41.677 ms

Loss rate: 1.30%

-- Flow 2:

Average throughput: 32.05 Mbit/s

95th percentile per-packet one-way delay: 44.999 ms

Loss rate: 1.82%

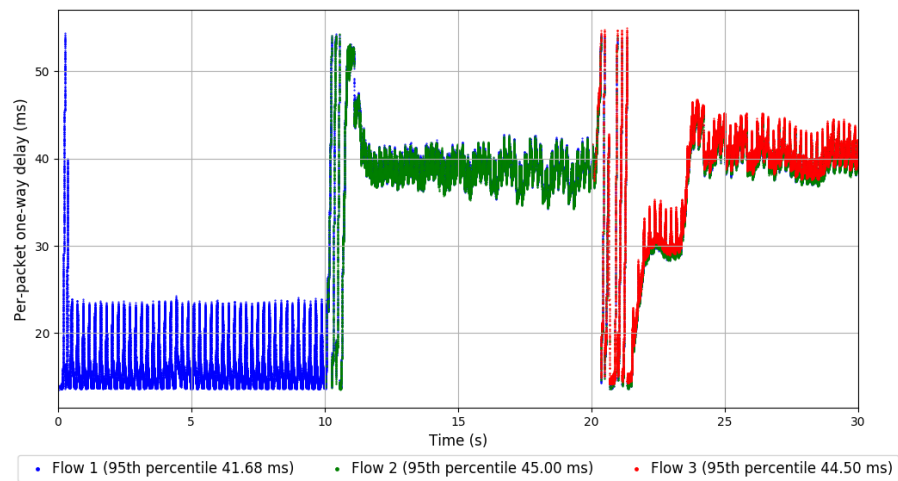
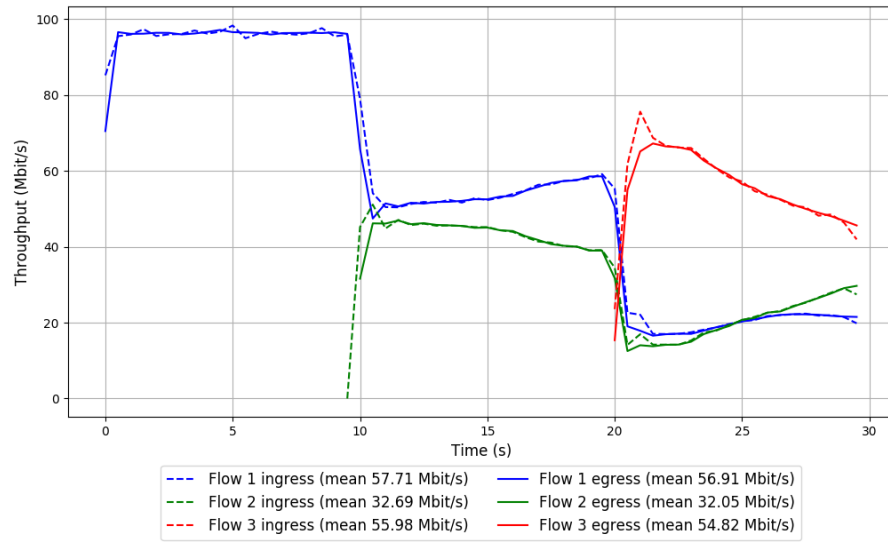
-- Flow 3:

Average throughput: 54.82 Mbit/s

95th percentile per-packet one-way delay: 44.499 ms

Loss rate: 2.06%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-04-10 22:51:53

End at: 2018-04-10 22:52:23

Local clock offset: 0.481 ms

Remote clock offset: 0.514 ms

Below is generated by plot.py at 2018-04-11 01:56:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.49 Mbit/s

95th percentile per-packet one-way delay: 46.572 ms

Loss rate: 1.24%

-- Flow 1:

Average throughput: 49.32 Mbit/s

95th percentile per-packet one-way delay: 43.856 ms

Loss rate: 1.09%

-- Flow 2:

Average throughput: 51.95 Mbit/s

95th percentile per-packet one-way delay: 48.261 ms

Loss rate: 1.61%

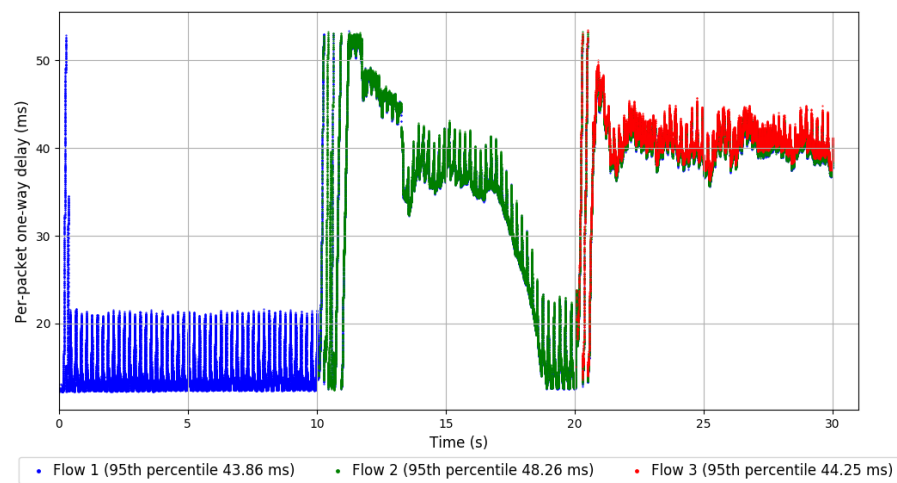
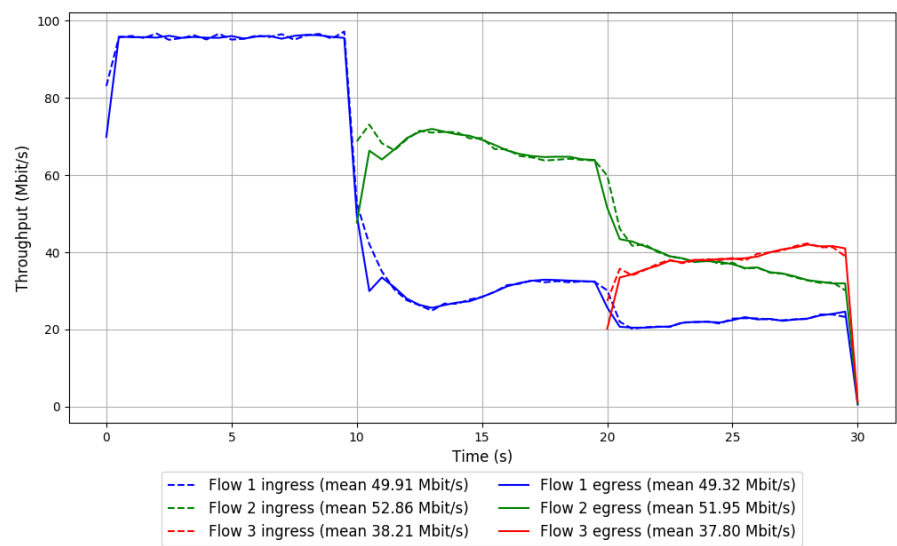
-- Flow 3:

Average throughput: 37.80 Mbit/s

95th percentile per-packet one-way delay: 44.247 ms

Loss rate: 0.82%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-04-10 23:13:02

End at: 2018-04-10 23:13:32

Local clock offset: 1.536 ms

Remote clock offset: -4.95 ms

Below is generated by plot.py at 2018-04-11 01:56:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.24 Mbit/s

95th percentile per-packet one-way delay: 44.193 ms

Loss rate: 1.51%

-- Flow 1:

Average throughput: 55.75 Mbit/s

95th percentile per-packet one-way delay: 42.800 ms

Loss rate: 1.18%

-- Flow 2:

Average throughput: 39.95 Mbit/s

95th percentile per-packet one-way delay: 45.011 ms

Loss rate: 1.76%

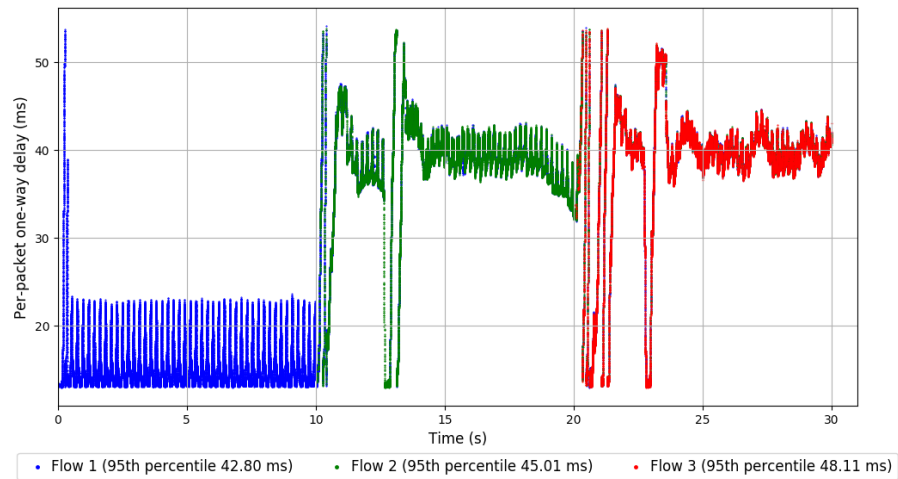
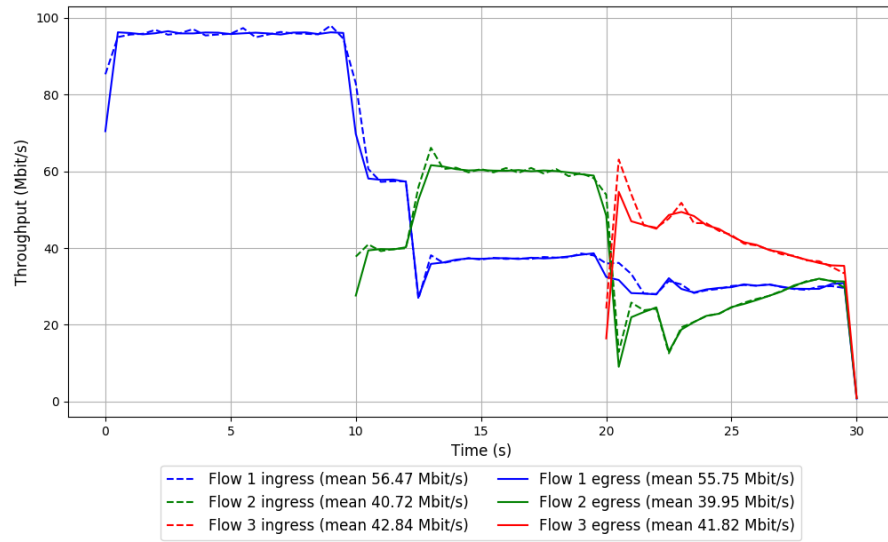
-- Flow 3:

Average throughput: 41.82 Mbit/s

95th percentile per-packet one-way delay: 48.109 ms

Loss rate: 2.30%

Run 5: Report of TCP BBR — Data Link

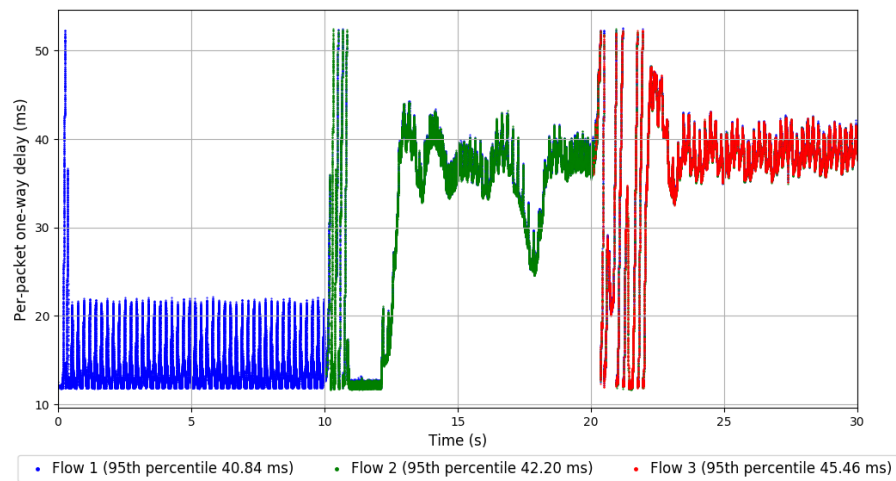
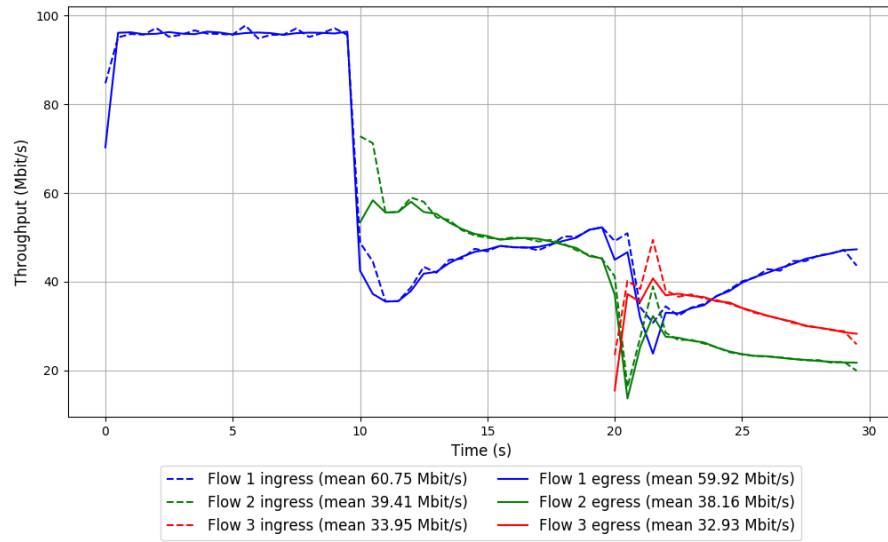


Run 6: Statistics of TCP BBR

Start at: 2018-04-10 23:34:20
End at: 2018-04-10 23:34:50
Local clock offset: -0.627 ms
Remote clock offset: -8.131 ms

Below is generated by plot.py at 2018-04-11 01:56:57
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.26 Mbit/s
95th percentile per-packet one-way delay: 41.575 ms
Loss rate: 1.95%
-- Flow 1:
Average throughput: 59.92 Mbit/s
95th percentile per-packet one-way delay: 40.841 ms
Loss rate: 1.28%
-- Flow 2:
Average throughput: 38.16 Mbit/s
95th percentile per-packet one-way delay: 42.197 ms
Loss rate: 3.06%
-- Flow 3:
Average throughput: 32.93 Mbit/s
95th percentile per-packet one-way delay: 45.460 ms
Loss rate: 3.01%

Run 6: Report of TCP BBR — Data Link

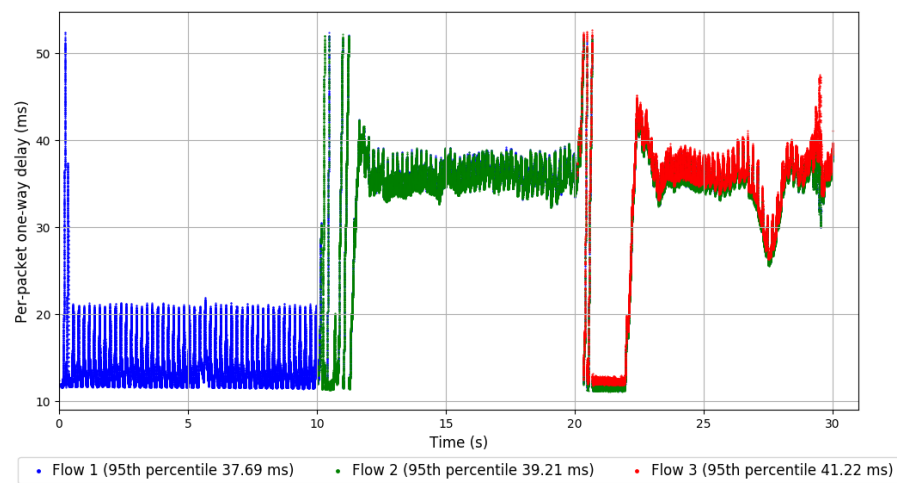
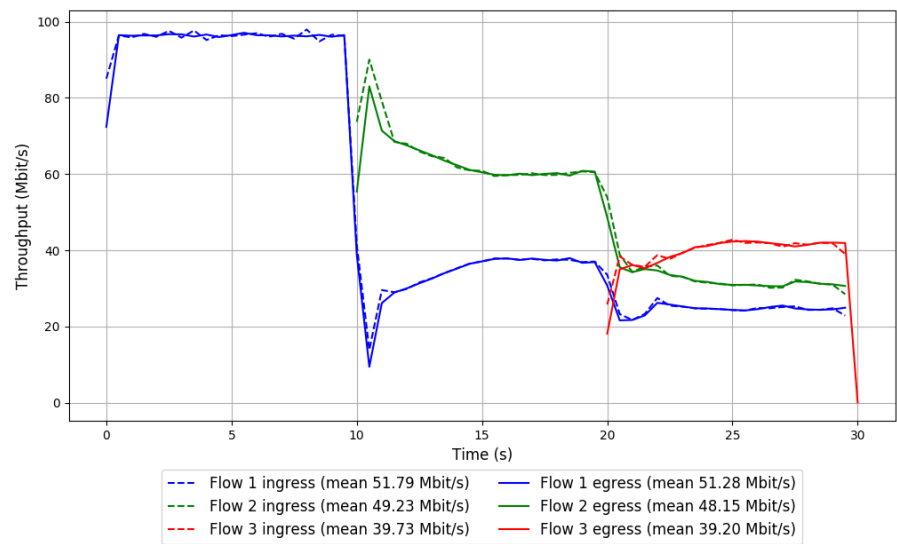


Run 7: Statistics of TCP BBR

Start at: 2018-04-10 23:55:28
End at: 2018-04-10 23:55:58
Local clock offset: -0.764 ms
Remote clock offset: -8.447 ms

Below is generated by plot.py at 2018-04-11 01:56:57
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.39 Mbit/s
95th percentile per-packet one-way delay: 38.747 ms
Loss rate: 1.33%
-- Flow 1:
Average throughput: 51.28 Mbit/s
95th percentile per-packet one-way delay: 37.687 ms
Loss rate: 0.88%
-- Flow 2:
Average throughput: 48.15 Mbit/s
95th percentile per-packet one-way delay: 39.209 ms
Loss rate: 2.06%
-- Flow 3:
Average throughput: 39.20 Mbit/s
95th percentile per-packet one-way delay: 41.217 ms
Loss rate: 1.29%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-04-11 00:17:09

End at: 2018-04-11 00:17:39

Local clock offset: -8.537 ms

Remote clock offset: 0.263 ms

Below is generated by plot.py at 2018-04-11 01:56:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.34 Mbit/s

95th percentile per-packet one-way delay: 49.079 ms

Loss rate: 1.33%

-- Flow 1:

Average throughput: 52.91 Mbit/s

95th percentile per-packet one-way delay: 46.750 ms

Loss rate: 0.99%

-- Flow 2:

Average throughput: 45.62 Mbit/s

95th percentile per-packet one-way delay: 51.525 ms

Loss rate: 1.78%

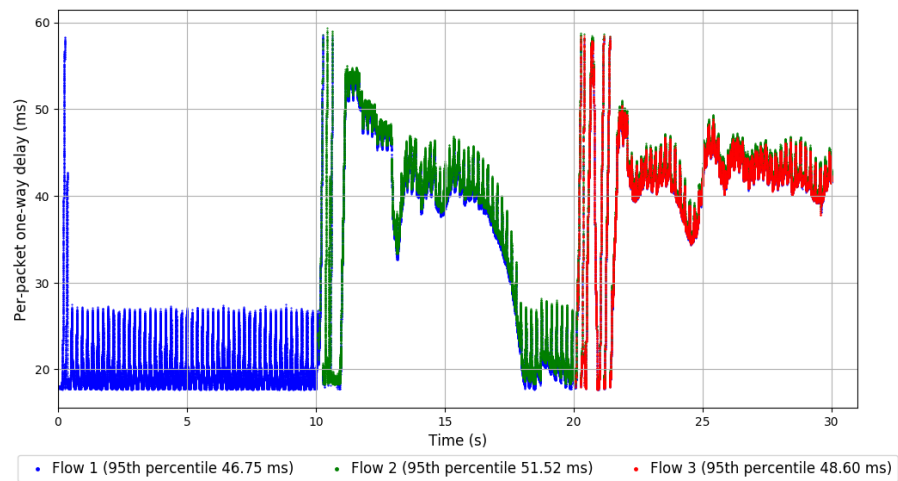
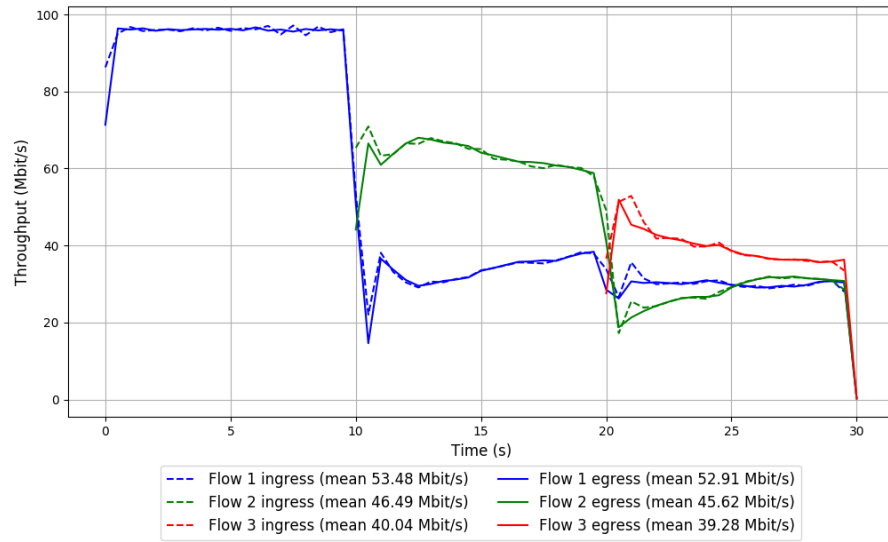
-- Flow 3:

Average throughput: 39.28 Mbit/s

95th percentile per-packet one-way delay: 48.601 ms

Loss rate: 1.67%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-04-11 00:38:32

End at: 2018-04-11 00:39:02

Local clock offset: 1.15 ms

Remote clock offset: 2.912 ms

Below is generated by plot.py at 2018-04-11 01:58:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.72 Mbit/s

95th percentile per-packet one-way delay: 41.291 ms

Loss rate: 1.58%

-- Flow 1:

Average throughput: 60.21 Mbit/s

95th percentile per-packet one-way delay: 41.095 ms

Loss rate: 1.06%

-- Flow 2:

Average throughput: 38.87 Mbit/s

95th percentile per-packet one-way delay: 41.515 ms

Loss rate: 2.76%

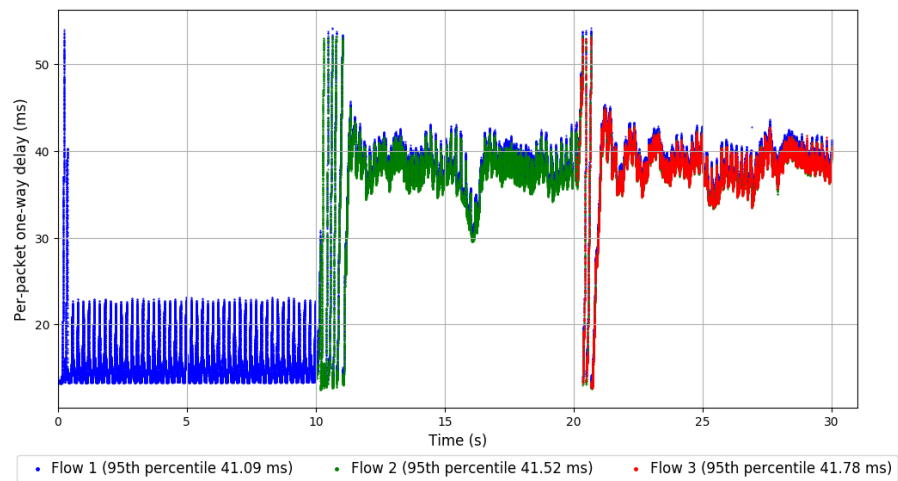
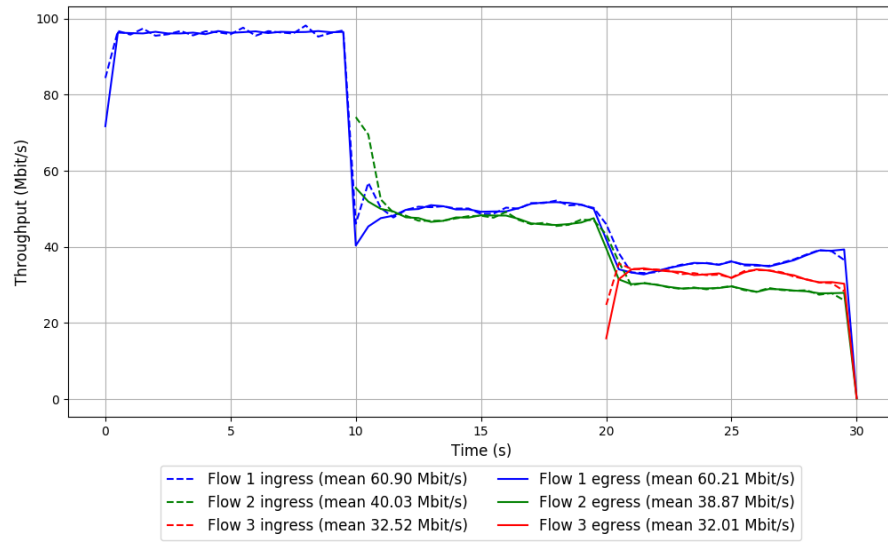
-- Flow 3:

Average throughput: 32.01 Mbit/s

95th percentile per-packet one-way delay: 41.784 ms

Loss rate: 1.61%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-04-11 01:00:11

End at: 2018-04-11 01:00:41

Local clock offset: 1.796 ms

Remote clock offset: 3.894 ms

Below is generated by plot.py at 2018-04-11 01:58:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.23 Mbit/s

95th percentile per-packet one-way delay: 42.356 ms

Loss rate: 1.87%

-- Flow 1:

Average throughput: 58.53 Mbit/s

95th percentile per-packet one-way delay: 41.520 ms

Loss rate: 1.47%

-- Flow 2:

Average throughput: 40.90 Mbit/s

95th percentile per-packet one-way delay: 43.120 ms

Loss rate: 2.42%

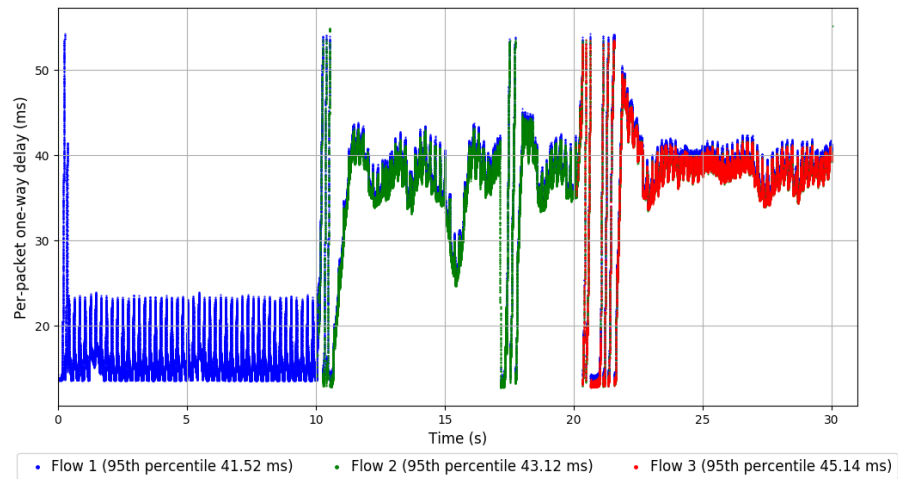
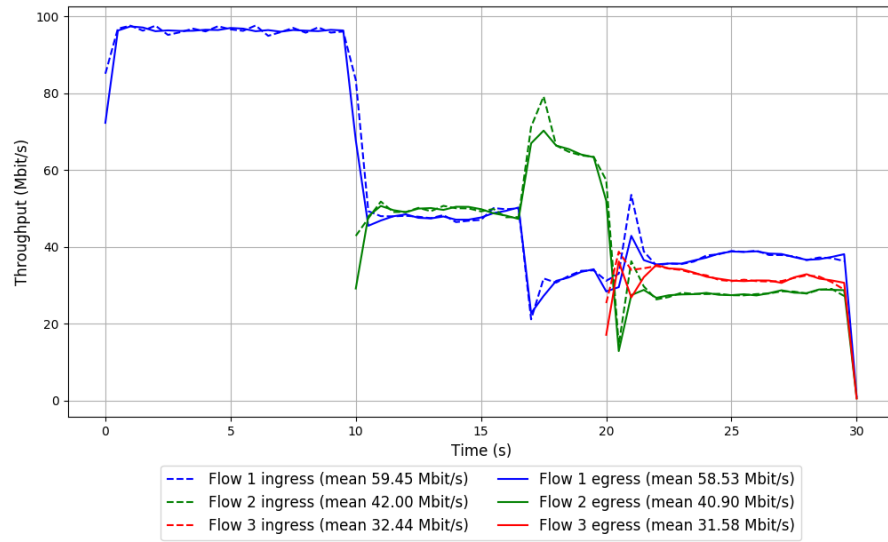
-- Flow 3:

Average throughput: 31.58 Mbit/s

95th percentile per-packet one-way delay: 45.136 ms

Loss rate: 2.65%

Run 10: Report of TCP BBR — Data Link

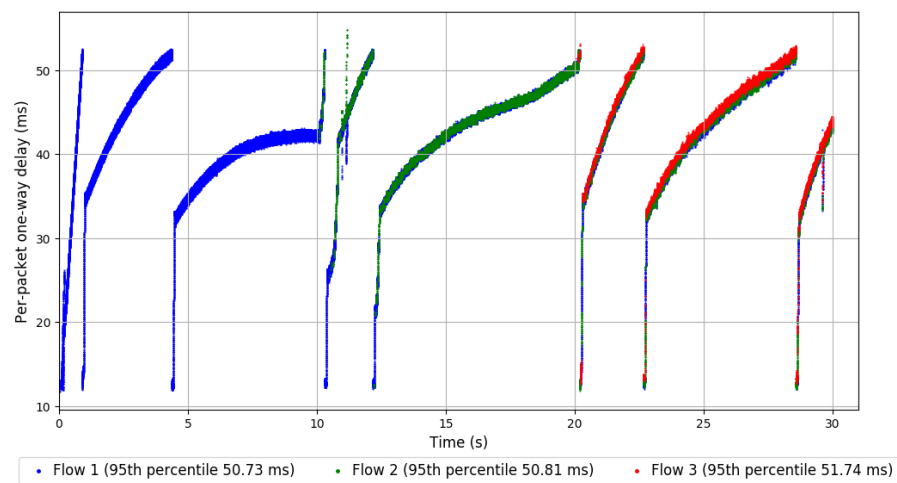
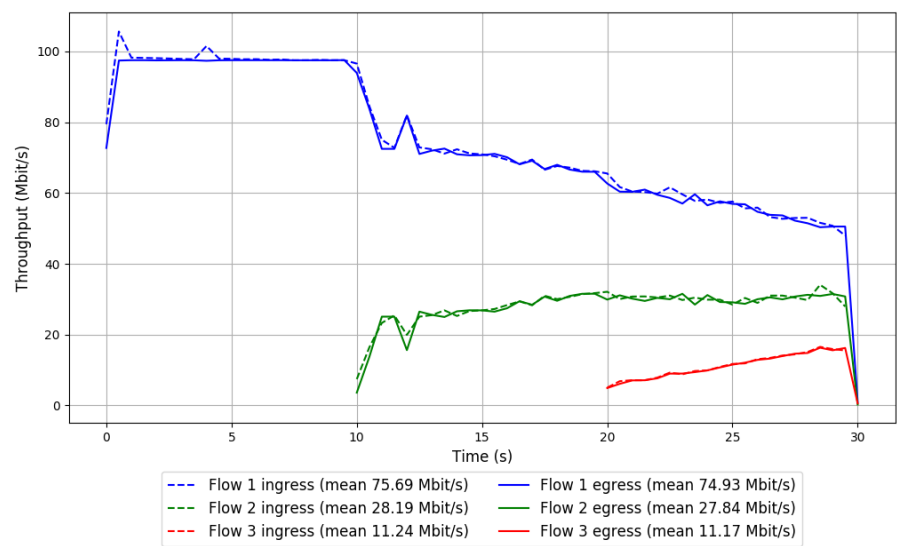


Run 1: Statistics of TCP Cubic

Start at: 2018-04-10 22:00:35
End at: 2018-04-10 22:01:05
Local clock offset: 1.06 ms
Remote clock offset: -2.162 ms

Below is generated by plot.py at 2018-04-11 01:58:24
Datalink statistics
-- Total of 3 flows:
Average throughput: 97.15 Mbit/s
95th percentile per-packet one-way delay: 50.795 ms
Loss rate: 0.96%
-- Flow 1:
Average throughput: 74.93 Mbit/s
95th percentile per-packet one-way delay: 50.733 ms
Loss rate: 0.91%
-- Flow 2:
Average throughput: 27.84 Mbit/s
95th percentile per-packet one-way delay: 50.812 ms
Loss rate: 1.24%
-- Flow 3:
Average throughput: 11.17 Mbit/s
95th percentile per-packet one-way delay: 51.743 ms
Loss rate: 0.72%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-04-10 22:23:15

End at: 2018-04-10 22:23:45

Local clock offset: 0.685 ms

Remote clock offset: 3.174 ms

Below is generated by plot.py at 2018-04-11 01:58:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.15 Mbit/s

95th percentile per-packet one-way delay: 50.863 ms

Loss rate: 0.96%

-- Flow 1:

Average throughput: 72.09 Mbit/s

95th percentile per-packet one-way delay: 50.674 ms

Loss rate: 0.91%

-- Flow 2:

Average throughput: 27.05 Mbit/s

95th percentile per-packet one-way delay: 51.074 ms

Loss rate: 1.32%

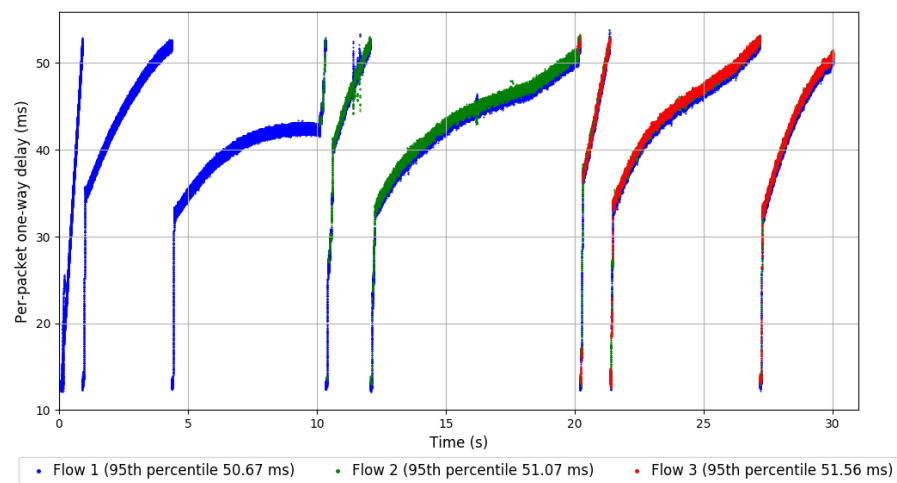
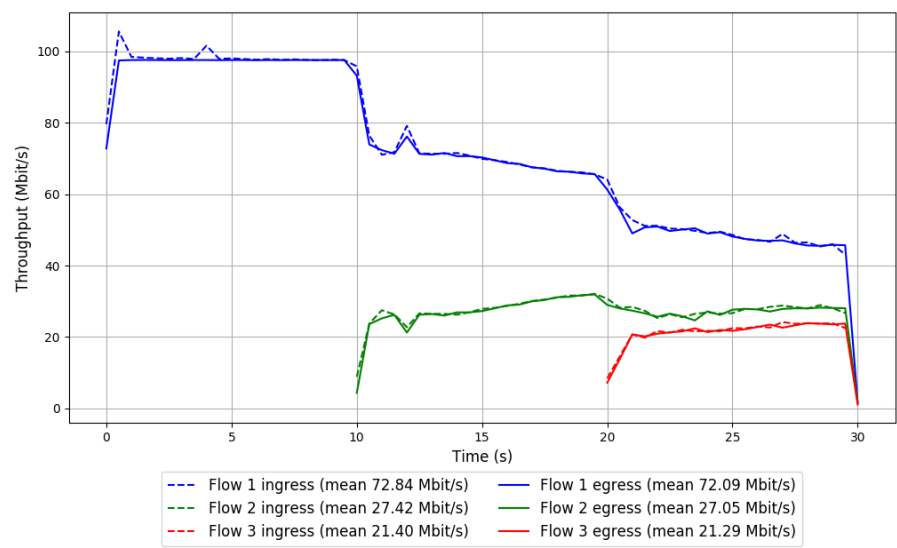
-- Flow 3:

Average throughput: 21.29 Mbit/s

95th percentile per-packet one-way delay: 51.558 ms

Loss rate: 0.51%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-04-10 22:44:50

End at: 2018-04-10 22:45:20

Local clock offset: 0.104 ms

Remote clock offset: 5.133 ms

Below is generated by plot.py at 2018-04-11 01:58:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.50 Mbit/s

95th percentile per-packet one-way delay: 50.392 ms

Loss rate: 1.02%

-- Flow 1:

Average throughput: 71.30 Mbit/s

95th percentile per-packet one-way delay: 50.463 ms

Loss rate: 0.92%

-- Flow 2:

Average throughput: 27.21 Mbit/s

95th percentile per-packet one-way delay: 49.752 ms

Loss rate: 1.14%

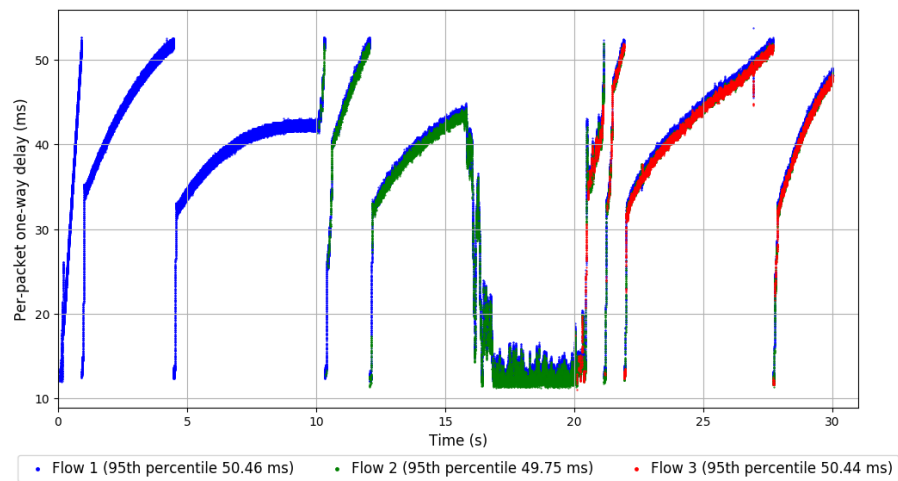
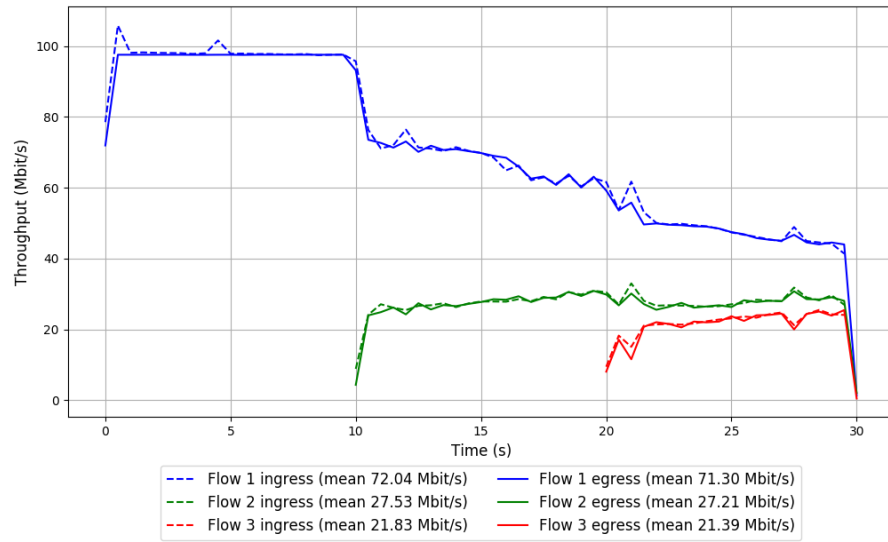
-- Flow 3:

Average throughput: 21.39 Mbit/s

95th percentile per-packet one-way delay: 50.438 ms

Loss rate: 1.73%

Run 3: Report of TCP Cubic — Data Link

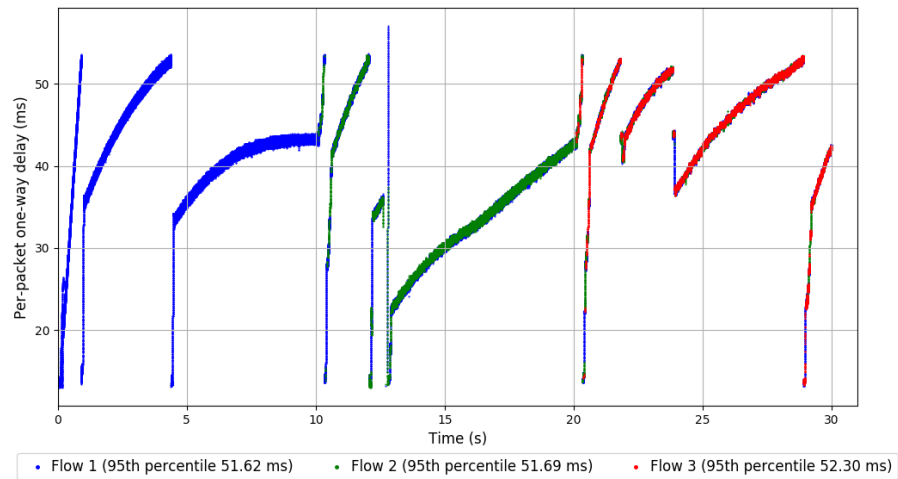
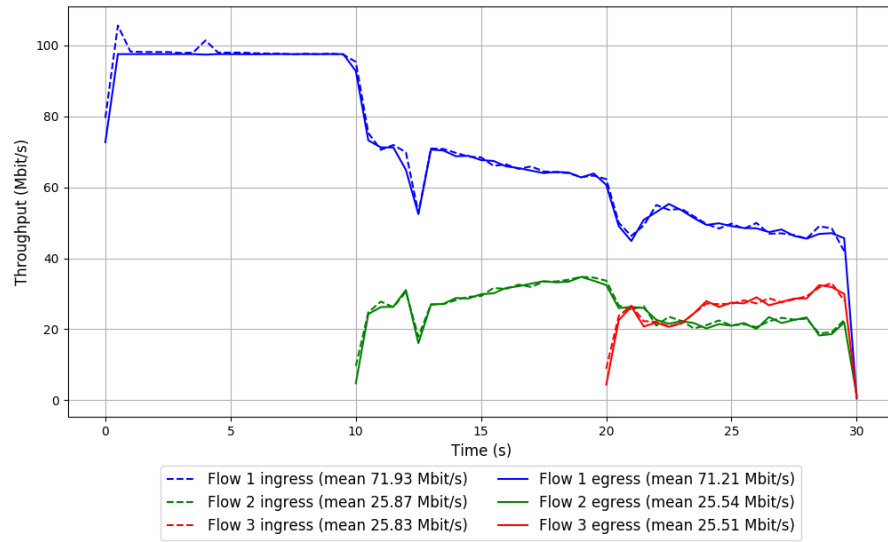


Run 4: Statistics of TCP Cubic

Start at: 2018-04-10 23:06:02
End at: 2018-04-10 23:06:32
Local clock offset: 1.56 ms
Remote clock offset: -3.803 ms

Below is generated by plot.py at 2018-04-11 01:58:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.65 Mbit/s
95th percentile per-packet one-way delay: 51.707 ms
Loss rate: 1.00%
-- Flow 1:
Average throughput: 71.21 Mbit/s
95th percentile per-packet one-way delay: 51.618 ms
Loss rate: 0.90%
-- Flow 2:
Average throughput: 25.54 Mbit/s
95th percentile per-packet one-way delay: 51.694 ms
Loss rate: 1.27%
-- Flow 3:
Average throughput: 25.51 Mbit/s
95th percentile per-packet one-way delay: 52.299 ms
Loss rate: 1.27%

Run 4: Report of TCP Cubic — Data Link

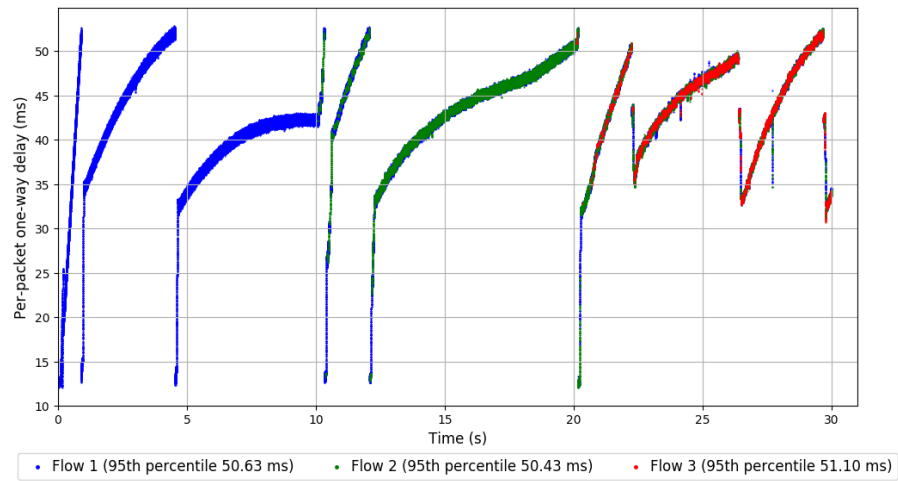
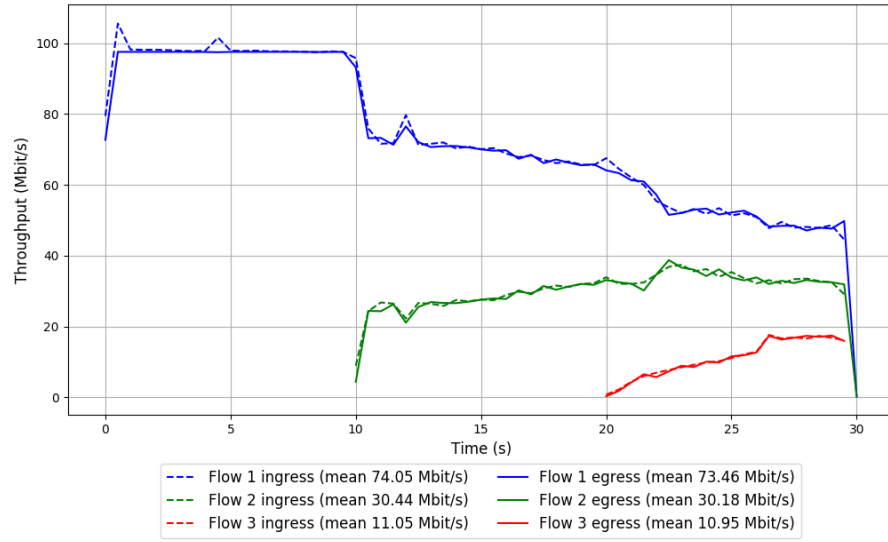


Run 5: Statistics of TCP Cubic

Start at: 2018-04-10 23:27:15
End at: 2018-04-10 23:27:45
Local clock offset: -0.475 ms
Remote clock offset: -7.714 ms

Below is generated by plot.py at 2018-04-11 01:58:28
Datalink statistics
-- Total of 3 flows:
Average throughput: 97.16 Mbit/s
95th percentile per-packet one-way delay: 50.616 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 73.46 Mbit/s
95th percentile per-packet one-way delay: 50.630 ms
Loss rate: 0.73%
-- Flow 2:
Average throughput: 30.18 Mbit/s
95th percentile per-packet one-way delay: 50.428 ms
Loss rate: 0.89%
-- Flow 3:
Average throughput: 10.95 Mbit/s
95th percentile per-packet one-way delay: 51.098 ms
Loss rate: 1.05%

Run 5: Report of TCP Cubic — Data Link

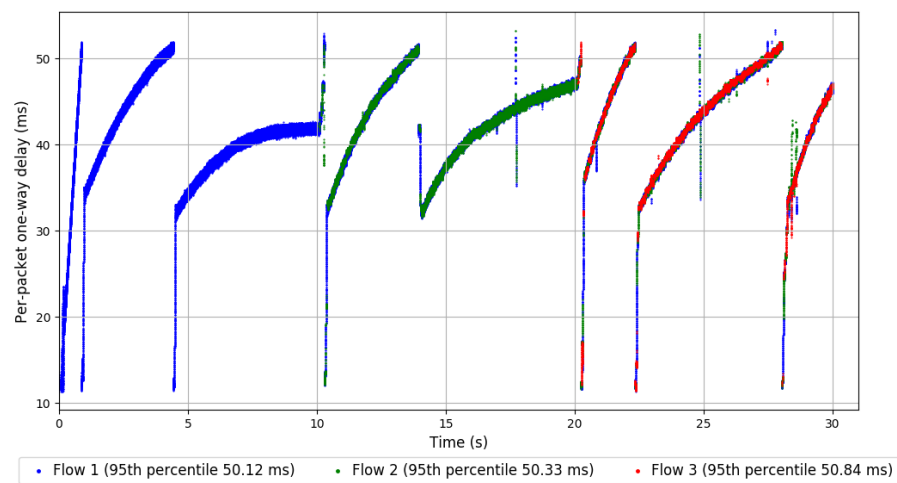
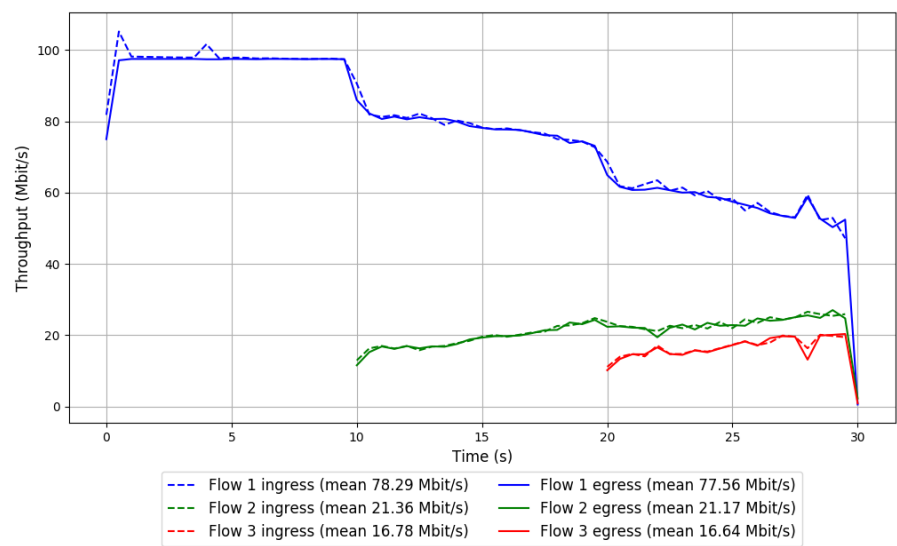


Run 6: Statistics of TCP Cubic

Start at: 2018-04-10 23:48:28
End at: 2018-04-10 23:48:58
Local clock offset: -1.24 ms
Remote clock offset: -9.617 ms

Below is generated by plot.py at 2018-04-11 01:58:29
Datalink statistics
-- Total of 3 flows:
Average throughput: 97.17 Mbit/s
95th percentile per-packet one-way delay: 50.175 ms
Loss rate: 0.83%
-- Flow 1:
Average throughput: 77.56 Mbit/s
95th percentile per-packet one-way delay: 50.119 ms
Loss rate: 0.82%
-- Flow 2:
Average throughput: 21.17 Mbit/s
95th percentile per-packet one-way delay: 50.325 ms
Loss rate: 0.84%
-- Flow 3:
Average throughput: 16.64 Mbit/s
95th percentile per-packet one-way delay: 50.842 ms
Loss rate: 0.84%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-04-11 00:09:53

End at: 2018-04-11 00:10:23

Local clock offset: -0.828 ms

Remote clock offset: 1.537 ms

Below is generated by plot.py at 2018-04-11 01:59:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.16 Mbit/s

95th percentile per-packet one-way delay: 52.092 ms

Loss rate: 0.95%

-- Flow 1:

Average throughput: 74.22 Mbit/s

95th percentile per-packet one-way delay: 51.910 ms

Loss rate: 0.93%

-- Flow 2:

Average throughput: 29.72 Mbit/s

95th percentile per-packet one-way delay: 52.583 ms

Loss rate: 1.07%

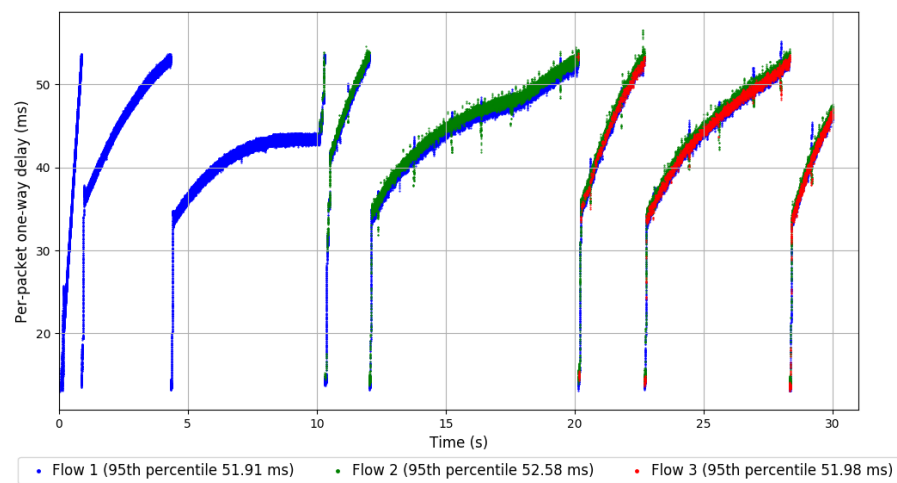
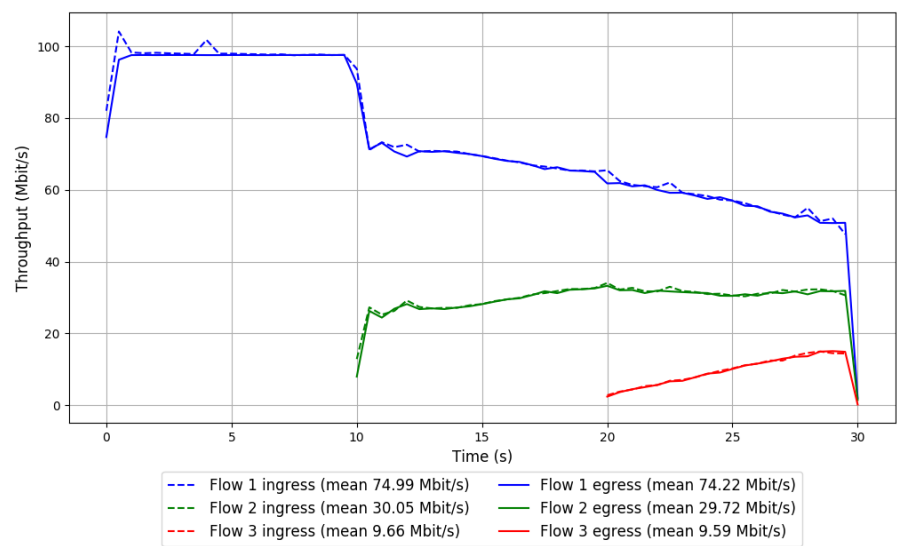
-- Flow 3:

Average throughput: 9.59 Mbit/s

95th percentile per-packet one-way delay: 51.982 ms

Loss rate: 0.78%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-04-11 00:31:26

End at: 2018-04-11 00:31:56

Local clock offset: -0.008 ms

Remote clock offset: 3.888 ms

Below is generated by plot.py at 2018-04-11 01:59:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.18 Mbit/s

95th percentile per-packet one-way delay: 52.211 ms

Loss rate: 0.86%

-- Flow 1:

Average throughput: 69.19 Mbit/s

95th percentile per-packet one-way delay: 52.149 ms

Loss rate: 0.88%

-- Flow 2:

Average throughput: 36.06 Mbit/s

95th percentile per-packet one-way delay: 52.225 ms

Loss rate: 0.90%

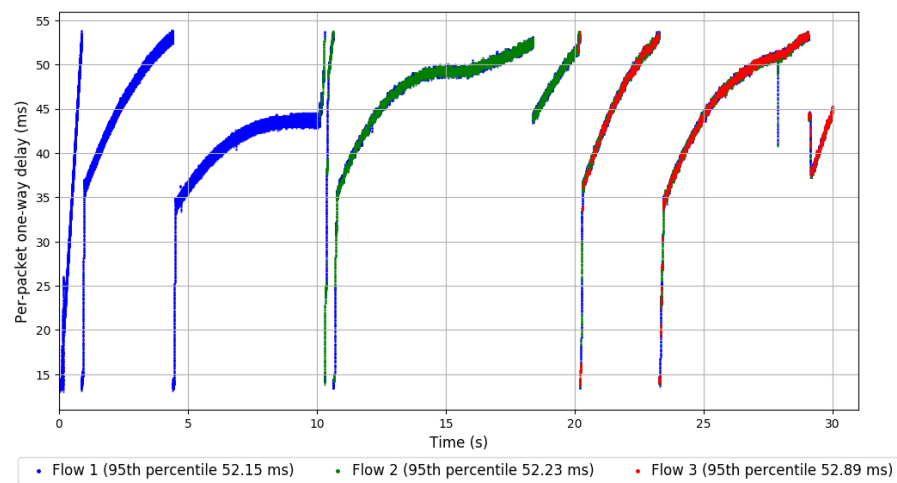
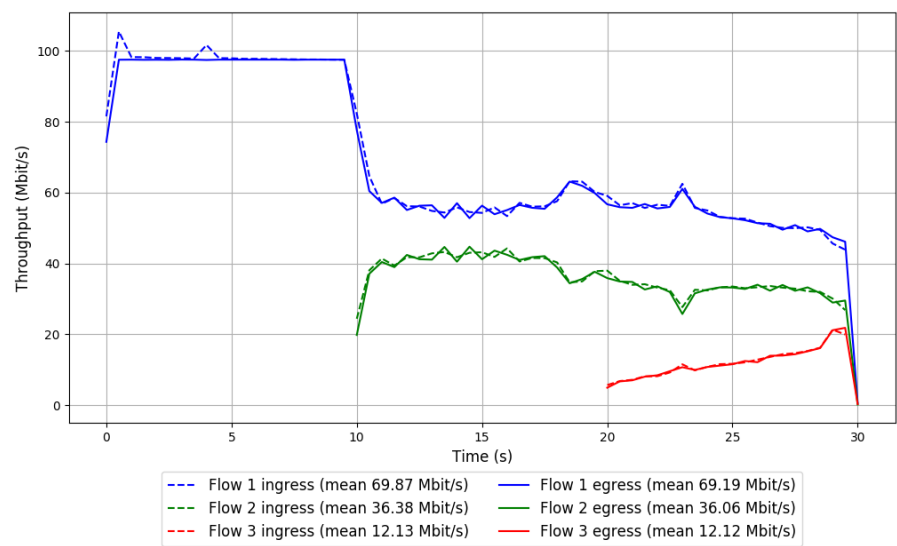
-- Flow 3:

Average throughput: 12.12 Mbit/s

95th percentile per-packet one-way delay: 52.886 ms

Loss rate: 0.21%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-04-11 00:53:08

End at: 2018-04-11 00:53:38

Local clock offset: 1.986 ms

Remote clock offset: 2.96 ms

Below is generated by plot.py at 2018-04-11 01:59:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.17 Mbit/s

95th percentile per-packet one-way delay: 51.804 ms

Loss rate: 0.86%

-- Flow 1:

Average throughput: 70.23 Mbit/s

95th percentile per-packet one-way delay: 51.866 ms

Loss rate: 0.86%

-- Flow 2:

Average throughput: 27.01 Mbit/s

95th percentile per-packet one-way delay: 51.577 ms

Loss rate: 0.88%

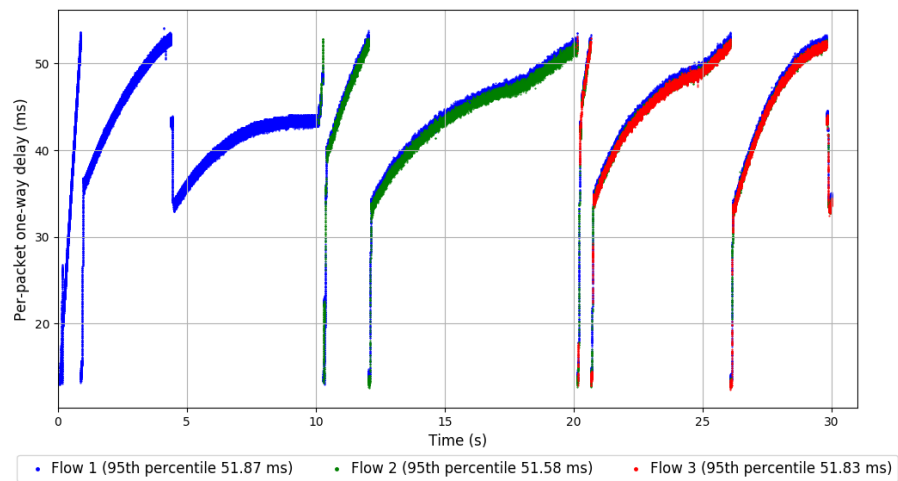
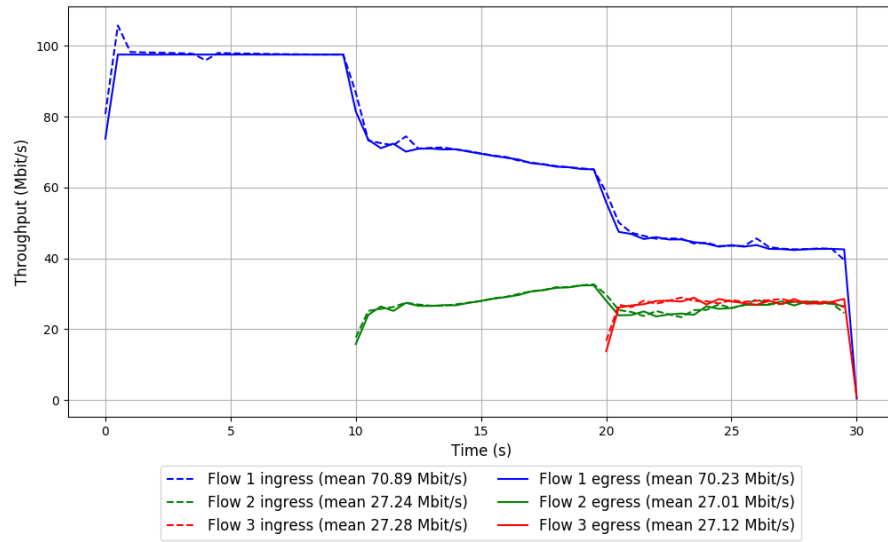
-- Flow 3:

Average throughput: 27.12 Mbit/s

95th percentile per-packet one-way delay: 51.828 ms

Loss rate: 0.74%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-04-11 01:14:27

End at: 2018-04-11 01:14:57

Local clock offset: 0.424 ms

Remote clock offset: 8.989 ms

Below is generated by plot.py at 2018-04-11 01:59:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.18 Mbit/s

95th percentile per-packet one-way delay: 50.890 ms

Loss rate: 0.94%

-- Flow 1:

Average throughput: 74.38 Mbit/s

95th percentile per-packet one-way delay: 50.832 ms

Loss rate: 0.85%

-- Flow 2:

Average throughput: 29.74 Mbit/s

95th percentile per-packet one-way delay: 50.963 ms

Loss rate: 1.28%

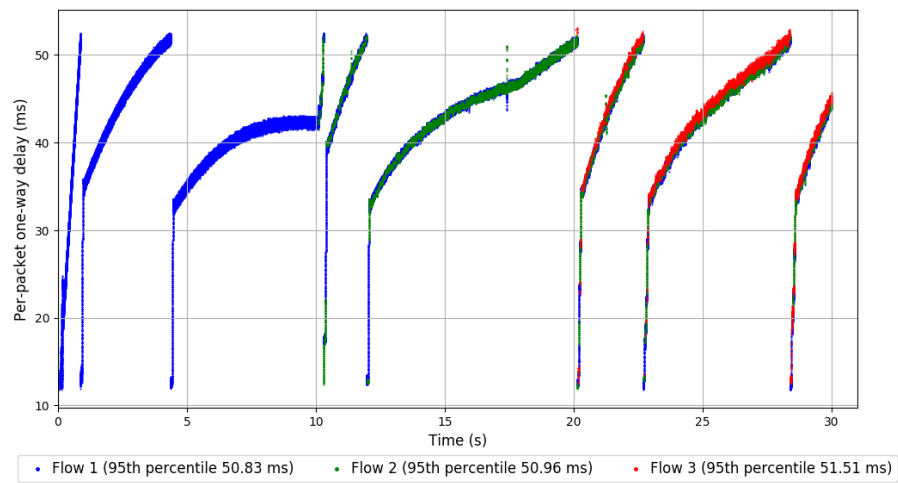
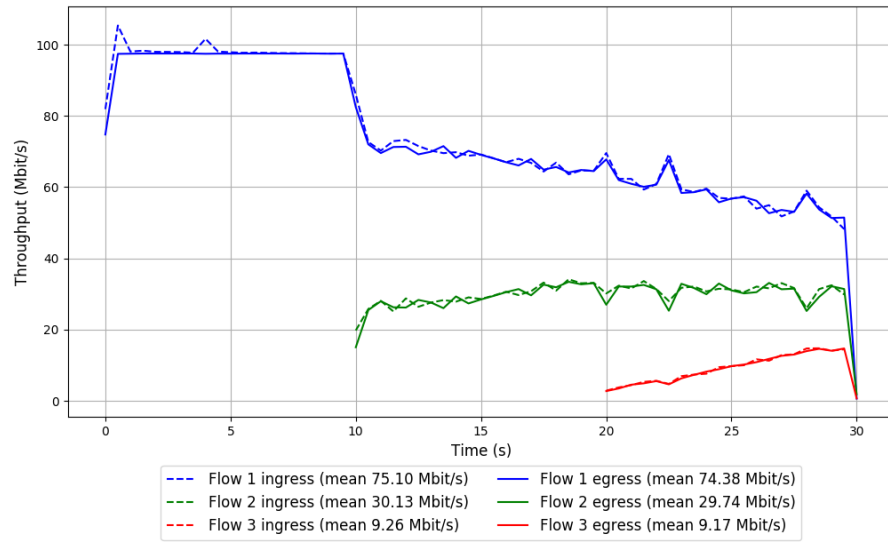
-- Flow 3:

Average throughput: 9.17 Mbit/s

95th percentile per-packet one-way delay: 51.514 ms

Loss rate: 1.08%

Run 10: Report of TCP Cubic — Data Link

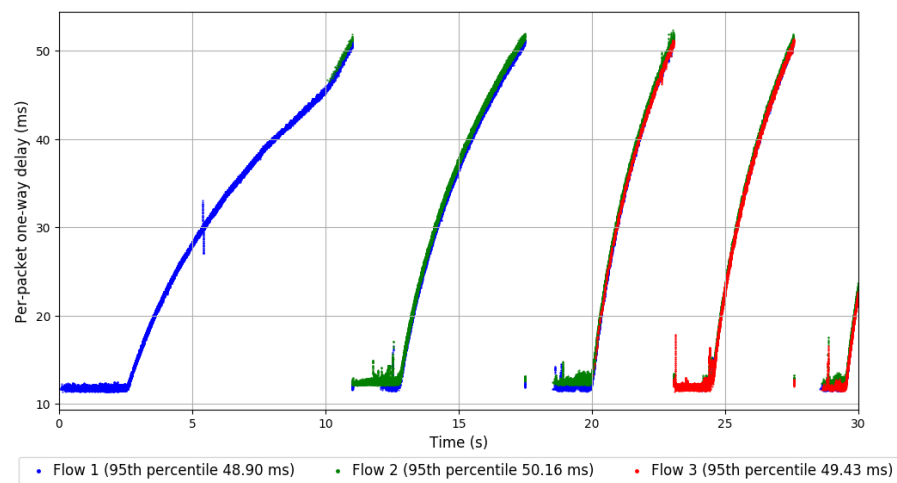
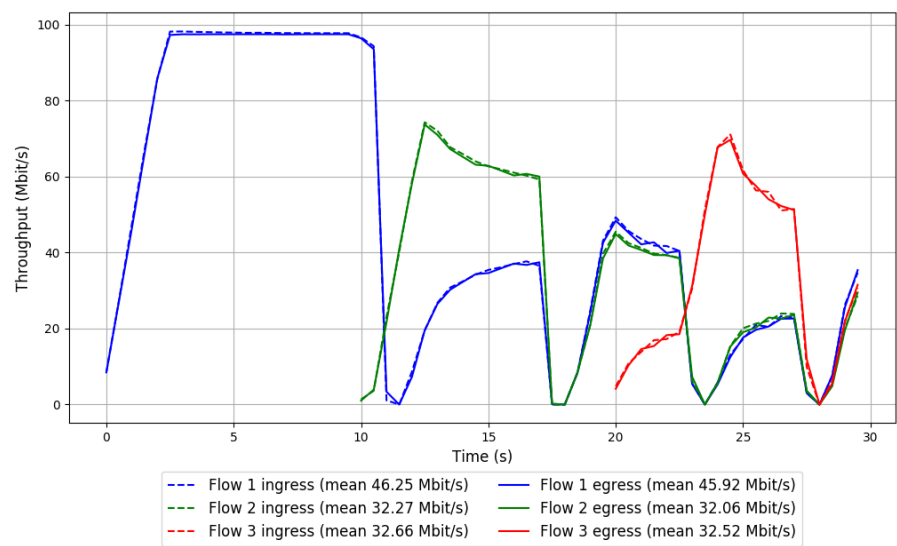


```
Run 1: Statistics of LEDBAT

Start at: 2018-04-10 21:57:00
End at: 2018-04-10 21:57:30
Local clock offset: 0.86 ms
Remote clock offset: -2.321 ms

# Below is generated by plot.py at 2018-04-11 01:59:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 78.02 Mbit/s
95th percentile per-packet one-way delay: 49.408 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 45.92 Mbit/s
95th percentile per-packet one-way delay: 48.902 ms
Loss rate: 0.67%
-- Flow 2:
Average throughput: 32.06 Mbit/s
95th percentile per-packet one-way delay: 50.158 ms
Loss rate: 0.75%
-- Flow 3:
Average throughput: 32.52 Mbit/s
95th percentile per-packet one-way delay: 49.432 ms
Loss rate: 0.34%
```

Run 1: Report of LEDBAT — Data Link

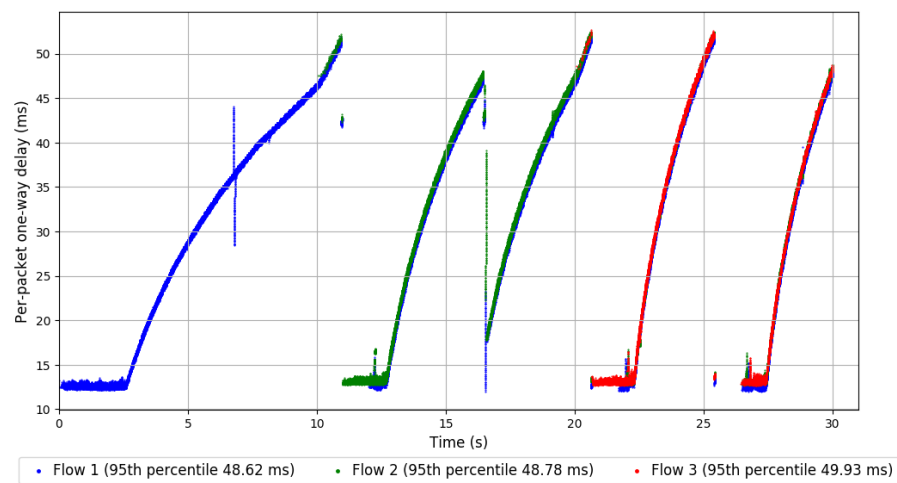
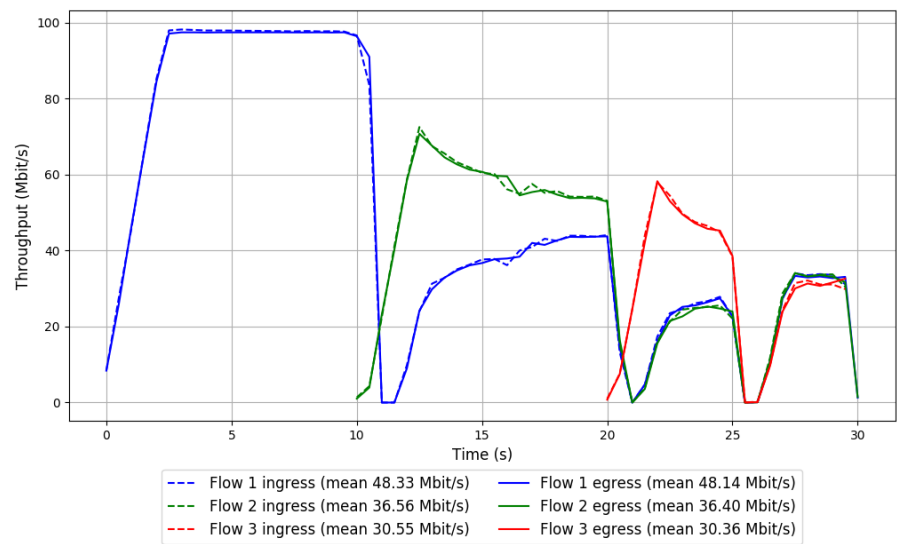


```
Run 2: Statistics of LEDBAT

Start at: 2018-04-10 22:19:38
End at: 2018-04-10 22:20:08
Local clock offset: 0.398 ms
Remote clock offset: 1.729 ms

# Below is generated by plot.py at 2018-04-11 01:59:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 82.41 Mbit/s
95th percentile per-packet one-way delay: 48.888 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 48.14 Mbit/s
95th percentile per-packet one-way delay: 48.623 ms
Loss rate: 0.28%
-- Flow 2:
Average throughput: 36.40 Mbit/s
95th percentile per-packet one-way delay: 48.778 ms
Loss rate: 0.42%
-- Flow 3:
Average throughput: 30.36 Mbit/s
95th percentile per-packet one-way delay: 49.930 ms
Loss rate: 0.63%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-04-10 22:41:04

End at: 2018-04-10 22:41:34

Local clock offset: -0.451 ms

Remote clock offset: 5.422 ms

Below is generated by plot.py at 2018-04-11 01:59:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 81.48 Mbit/s

95th percentile per-packet one-way delay: 49.314 ms

Loss rate: 0.26%

-- Flow 1:

Average throughput: 45.37 Mbit/s

95th percentile per-packet one-way delay: 49.283 ms

Loss rate: 0.17%

-- Flow 2:

Average throughput: 38.19 Mbit/s

95th percentile per-packet one-way delay: 49.293 ms

Loss rate: 0.18%

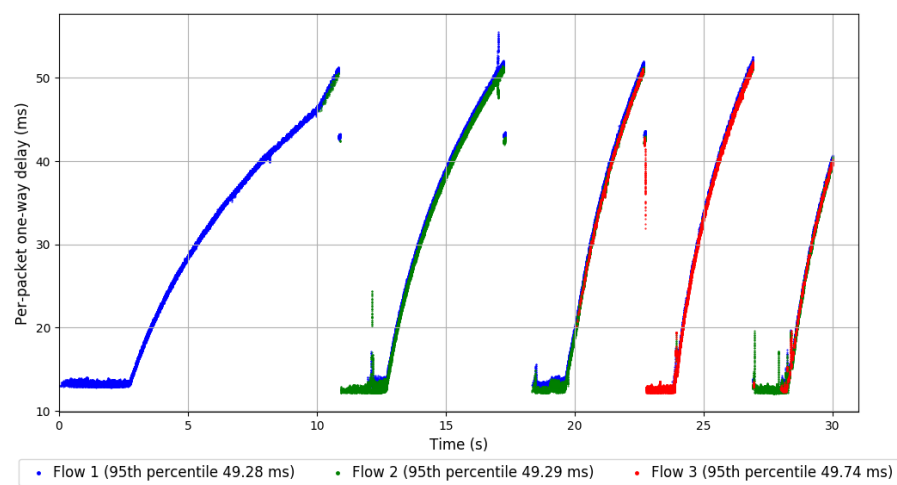
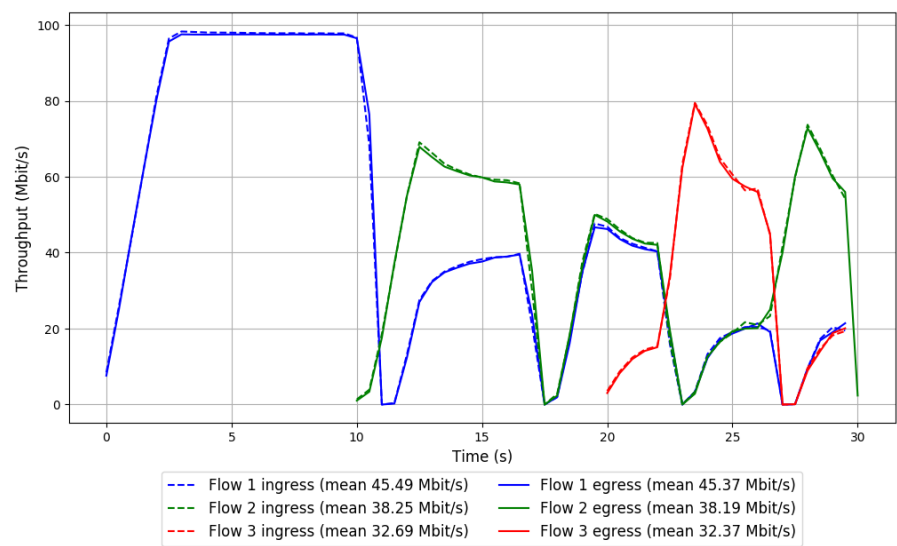
-- Flow 3:

Average throughput: 32.37 Mbit/s

95th percentile per-packet one-way delay: 49.742 ms

Loss rate: 0.78%

Run 3: Report of LEDBAT — Data Link

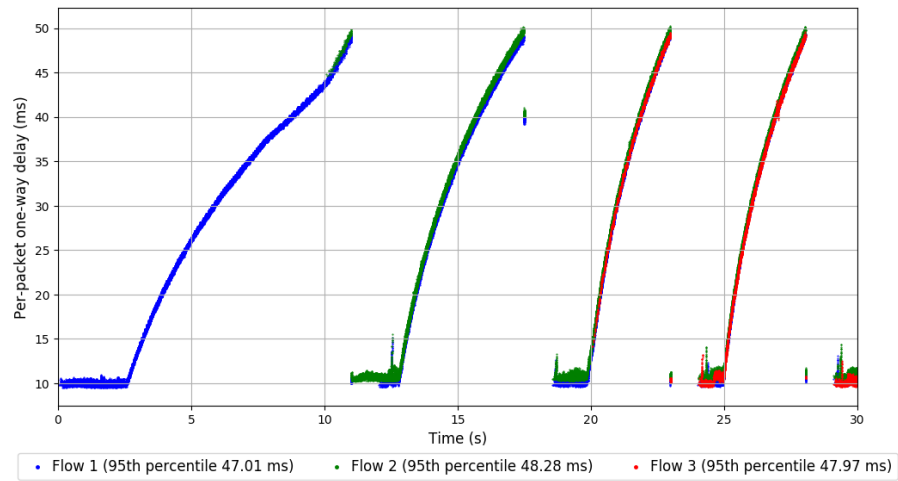
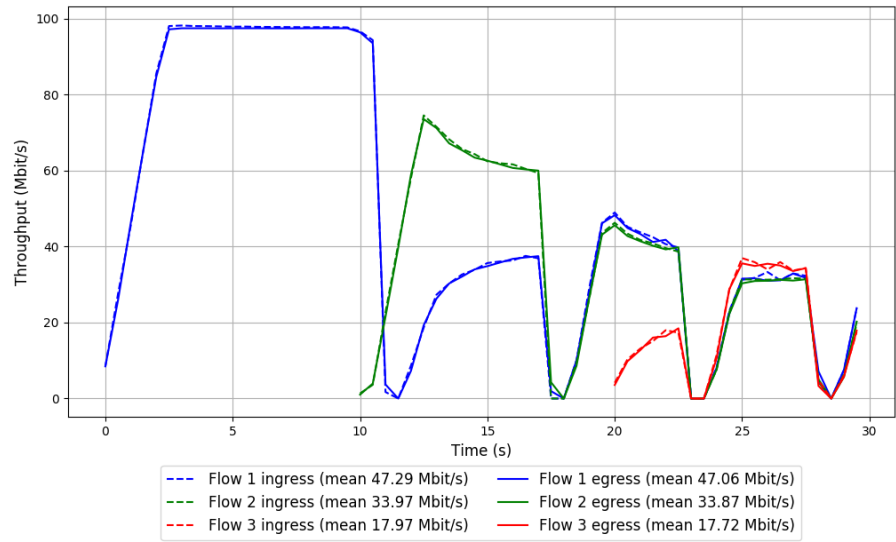


Run 4: Statistics of LEDBAT

Start at: 2018-04-10 23:02:28
End at: 2018-04-10 23:02:58
Local clock offset: -2.72 ms
Remote clock offset: -10.593 ms

Below is generated by plot.py at 2018-04-11 01:59:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 75.46 Mbit/s
95th percentile per-packet one-way delay: 47.578 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 47.06 Mbit/s
95th percentile per-packet one-way delay: 47.013 ms
Loss rate: 0.47%
-- Flow 2:
Average throughput: 33.87 Mbit/s
95th percentile per-packet one-way delay: 48.277 ms
Loss rate: 0.45%
-- Flow 3:
Average throughput: 17.72 Mbit/s
95th percentile per-packet one-way delay: 47.972 ms
Loss rate: 1.44%

Run 4: Report of LEDBAT — Data Link

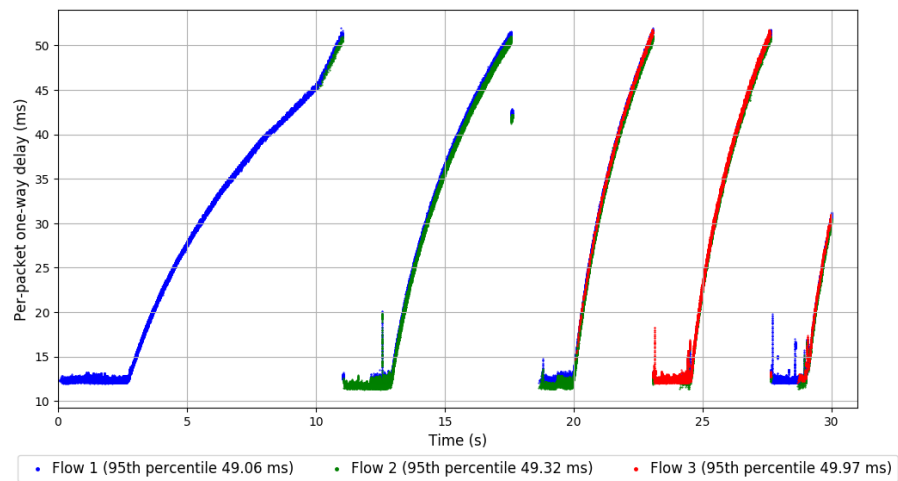
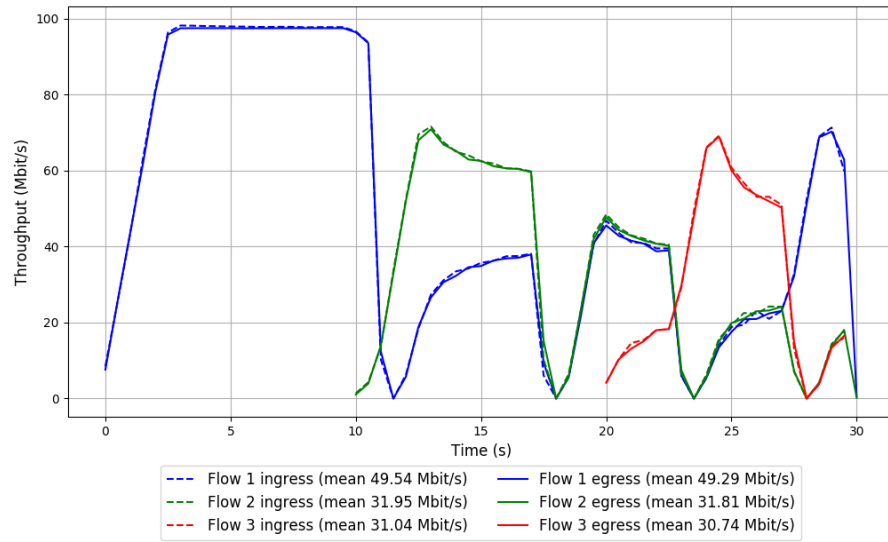


Run 5: Statistics of LEDBAT

Start at: 2018-04-10 23:23:39
End at: 2018-04-10 23:24:09
Local clock offset: -0.219 ms
Remote clock offset: -8.044 ms

Below is generated by plot.py at 2018-04-11 02:00:52
Datalink statistics
-- Total of 3 flows:
Average throughput: 80.64 Mbit/s
95th percentile per-packet one-way delay: 49.294 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 49.29 Mbit/s
95th percentile per-packet one-way delay: 49.061 ms
Loss rate: 0.43%
-- Flow 2:
Average throughput: 31.81 Mbit/s
95th percentile per-packet one-way delay: 49.316 ms
Loss rate: 0.52%
-- Flow 3:
Average throughput: 30.74 Mbit/s
95th percentile per-packet one-way delay: 49.973 ms
Loss rate: 0.80%

Run 5: Report of LEDBAT — Data Link

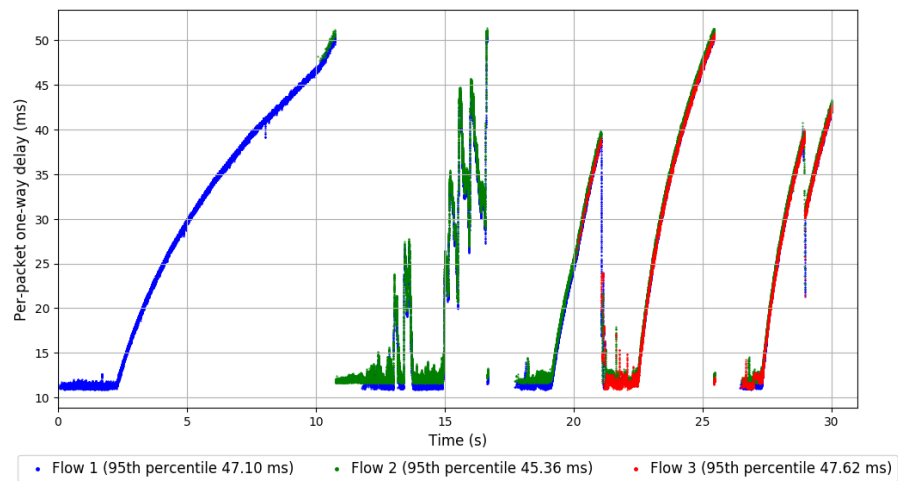
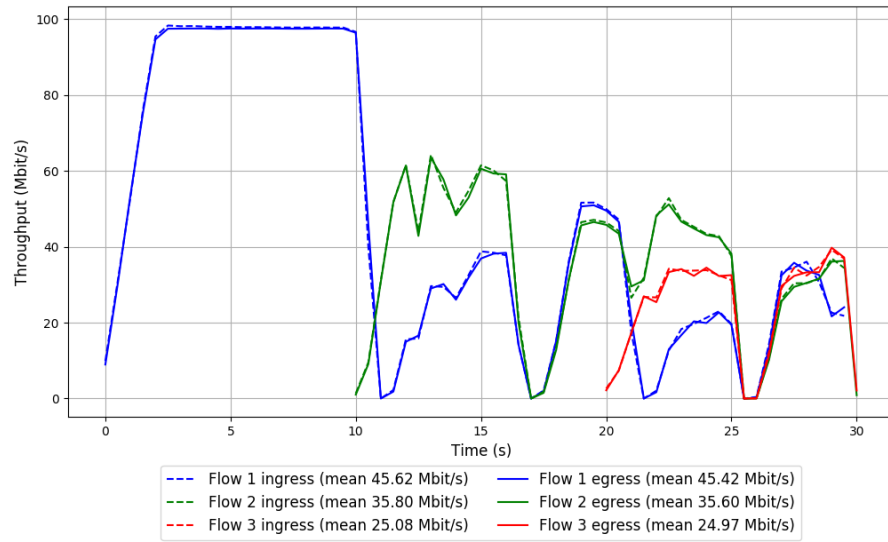


Run 6: Statistics of LEDBAT

Start at: 2018-04-10 23:44:52
End at: 2018-04-10 23:45:22
Local clock offset: -0.444 ms
Remote clock offset: -9.065 ms

Below is generated by plot.py at 2018-04-11 02:00:52
Datalink statistics
-- Total of 3 flows:
Average throughput: 77.35 Mbit/s
95th percentile per-packet one-way delay: 46.892 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 45.42 Mbit/s
95th percentile per-packet one-way delay: 47.103 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 35.60 Mbit/s
95th percentile per-packet one-way delay: 45.363 ms
Loss rate: 0.58%
-- Flow 3:
Average throughput: 24.97 Mbit/s
95th percentile per-packet one-way delay: 47.616 ms
Loss rate: 0.27%

Run 6: Report of LEDBAT — Data Link

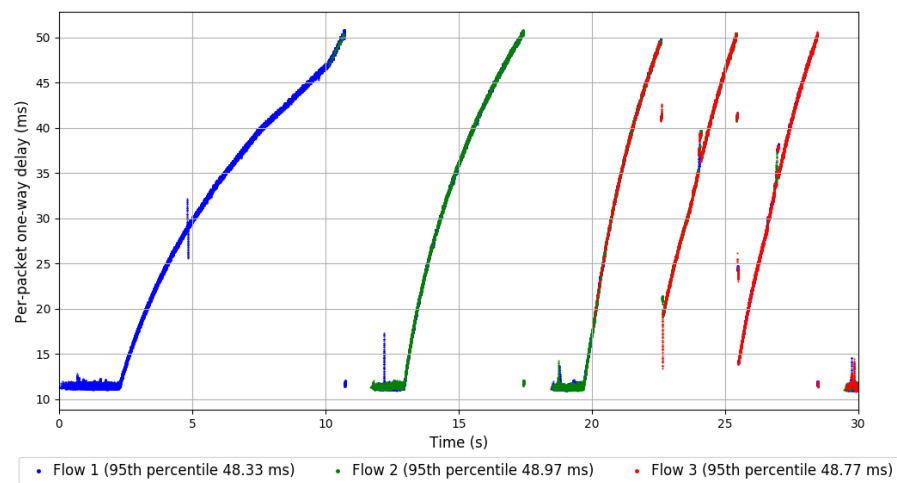
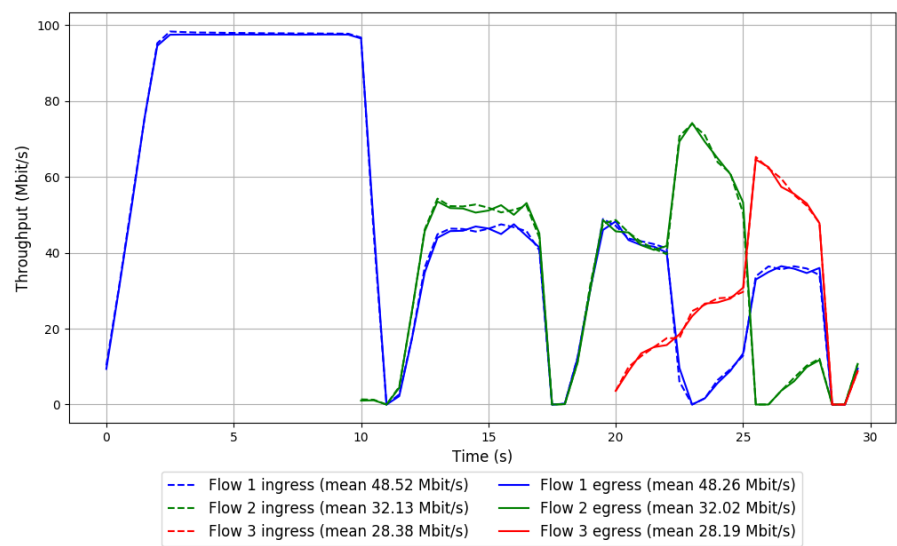


Run 7: Statistics of LEDBAT

Start at: 2018-04-11 00:06:12
End at: 2018-04-11 00:06:42
Local clock offset: -1.083 ms
Remote clock offset: -1.985 ms

Below is generated by plot.py at 2018-04-11 02:01:02
Datalink statistics
-- Total of 3 flows:
Average throughput: 78.88 Mbit/s
95th percentile per-packet one-way delay: 48.591 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 48.26 Mbit/s
95th percentile per-packet one-way delay: 48.325 ms
Loss rate: 0.53%
-- Flow 2:
Average throughput: 32.02 Mbit/s
95th percentile per-packet one-way delay: 48.966 ms
Loss rate: 0.52%
-- Flow 3:
Average throughput: 28.19 Mbit/s
95th percentile per-packet one-way delay: 48.774 ms
Loss rate: 0.75%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-04-11 00:27:51

End at: 2018-04-11 00:28:21

Local clock offset: 0.418 ms

Remote clock offset: 4.462 ms

Below is generated by plot.py at 2018-04-11 02:01:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 75.84 Mbit/s

95th percentile per-packet one-way delay: 49.983 ms

Loss rate: 0.66%

-- Flow 1:

Average throughput: 46.92 Mbit/s

95th percentile per-packet one-way delay: 49.905 ms

Loss rate: 0.56%

-- Flow 2:

Average throughput: 34.54 Mbit/s

95th percentile per-packet one-way delay: 50.150 ms

Loss rate: 0.70%

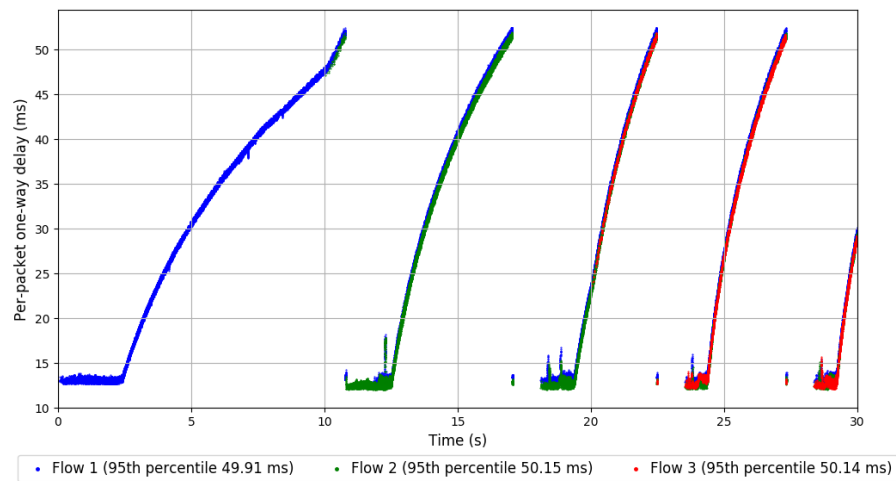
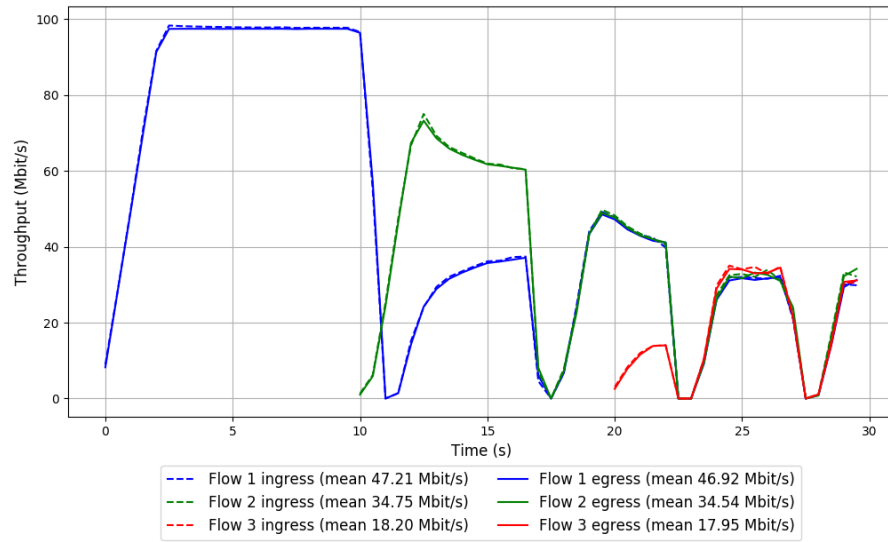
-- Flow 3:

Average throughput: 17.95 Mbit/s

95th percentile per-packet one-way delay: 50.141 ms

Loss rate: 1.32%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-04-11 00:49:28

End at: 2018-04-11 00:49:59

Local clock offset: 1.545 ms

Remote clock offset: 2.454 ms

Below is generated by plot.py at 2018-04-11 02:01:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 75.88 Mbit/s

95th percentile per-packet one-way delay: 49.878 ms

Loss rate: 0.53%

-- Flow 1:

Average throughput: 46.98 Mbit/s

95th percentile per-packet one-way delay: 49.800 ms

Loss rate: 0.39%

-- Flow 2:

Average throughput: 33.98 Mbit/s

95th percentile per-packet one-way delay: 50.059 ms

Loss rate: 0.76%

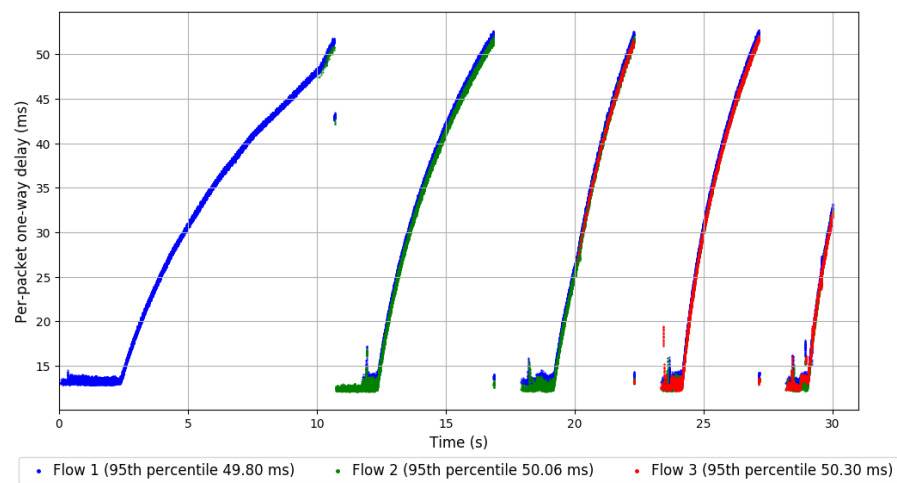
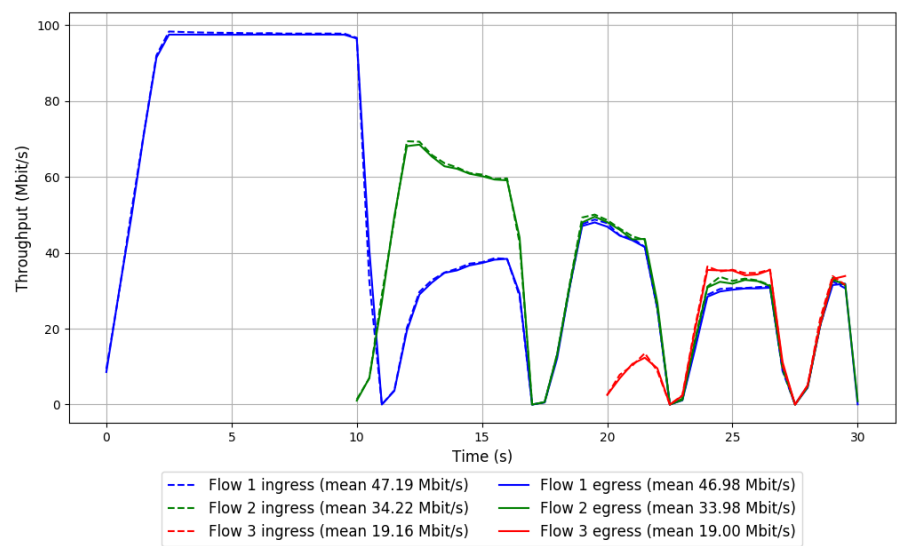
-- Flow 3:

Average throughput: 19.00 Mbit/s

95th percentile per-packet one-way delay: 50.298 ms

Loss rate: 0.81%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-04-11 01:10:53

End at: 2018-04-11 01:11:23

Local clock offset: 1.24 ms

Remote clock offset: 8.592 ms

Below is generated by plot.py at 2018-04-11 02:01:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 76.56 Mbit/s

95th percentile per-packet one-way delay: 49.930 ms

Loss rate: 0.66%

-- Flow 1:

Average throughput: 48.04 Mbit/s

95th percentile per-packet one-way delay: 49.481 ms

Loss rate: 0.61%

-- Flow 2:

Average throughput: 26.47 Mbit/s

95th percentile per-packet one-way delay: 50.692 ms

Loss rate: 0.89%

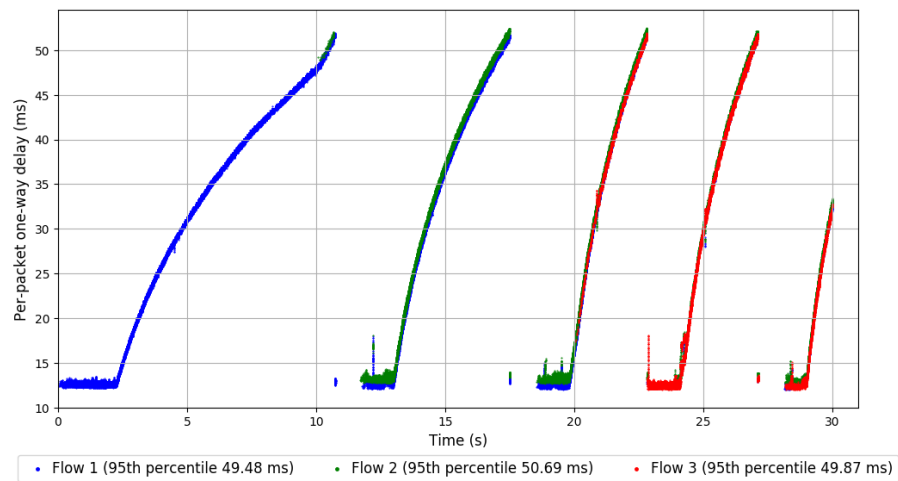
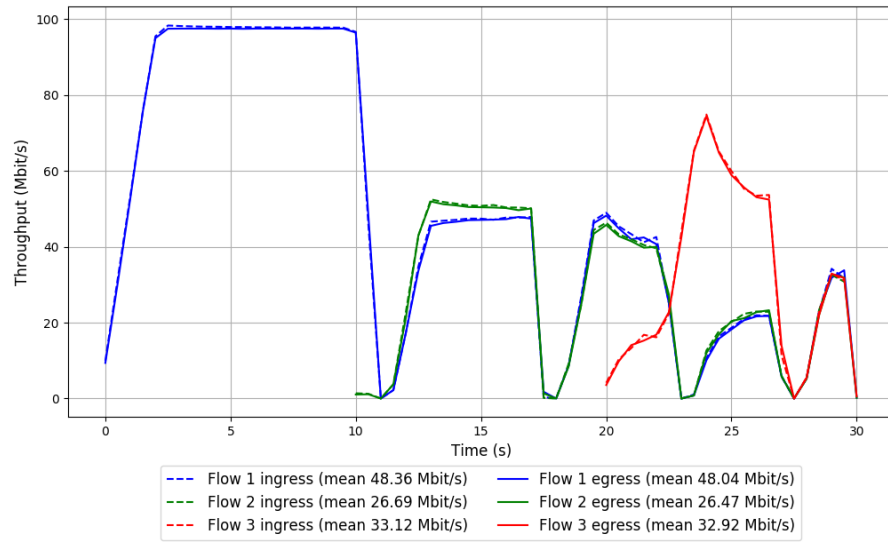
-- Flow 3:

Average throughput: 32.92 Mbit/s

95th percentile per-packet one-way delay: 49.869 ms

Loss rate: 0.46%

Run 10: Report of LEDBAT — Data Link

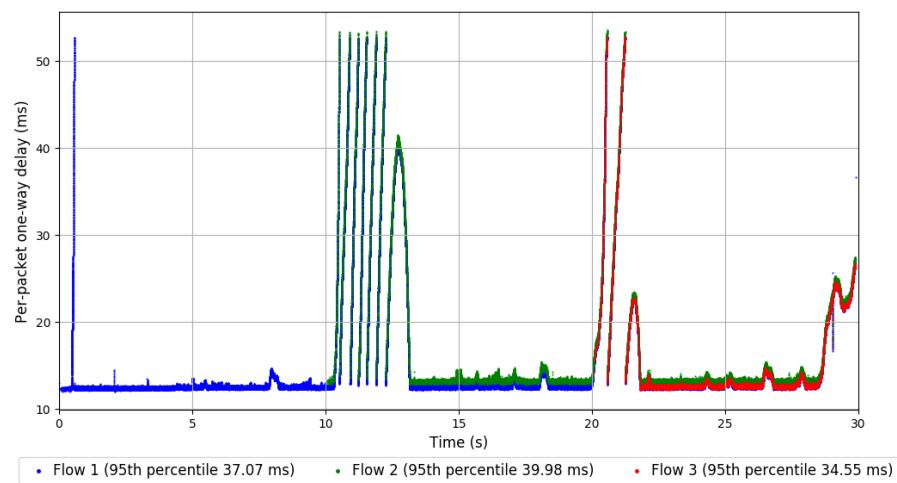
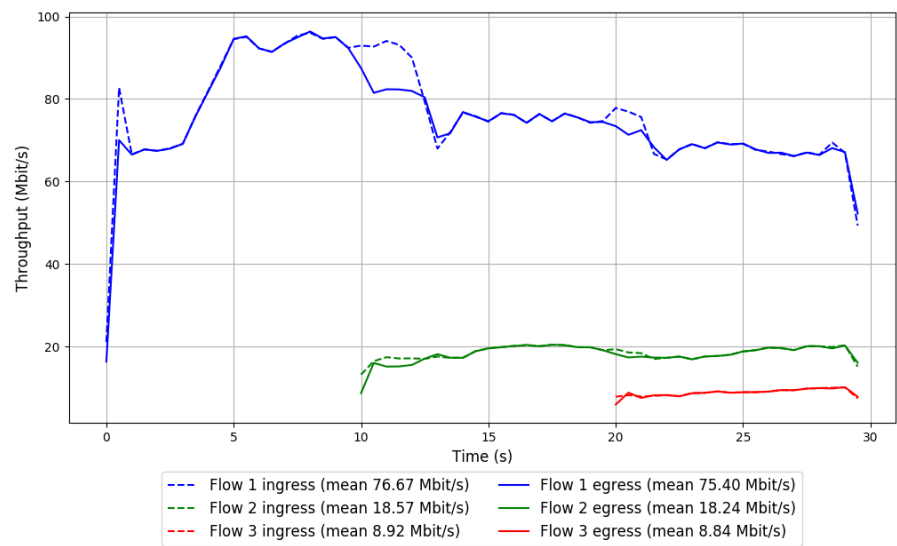


Run 1: Statistics of PCC

Start at: 2018-04-10 21:58:11
End at: 2018-04-10 21:58:41
Local clock offset: 0.734 ms
Remote clock offset: -1.845 ms

Below is generated by plot.py at 2018-04-11 02:01:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 90.44 Mbit/s
95th percentile per-packet one-way delay: 37.597 ms
Loss rate: 1.56%
-- Flow 1:
Average throughput: 75.40 Mbit/s
95th percentile per-packet one-way delay: 37.067 ms
Loss rate: 1.57%
-- Flow 2:
Average throughput: 18.24 Mbit/s
95th percentile per-packet one-way delay: 39.976 ms
Loss rate: 1.71%
-- Flow 3:
Average throughput: 8.84 Mbit/s
95th percentile per-packet one-way delay: 34.551 ms
Loss rate: 0.73%

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2018-04-10 22:20:50

End at: 2018-04-10 22:21:20

Local clock offset: 0.266 ms

Remote clock offset: 2.239 ms

Below is generated by plot.py at 2018-04-11 02:01:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.41 Mbit/s

95th percentile per-packet one-way delay: 21.169 ms

Loss rate: 0.42%

-- Flow 1:

Average throughput: 80.45 Mbit/s

95th percentile per-packet one-way delay: 21.118 ms

Loss rate: 0.46%

-- Flow 2:

Average throughput: 12.98 Mbit/s

95th percentile per-packet one-way delay: 22.955 ms

Loss rate: 0.13%

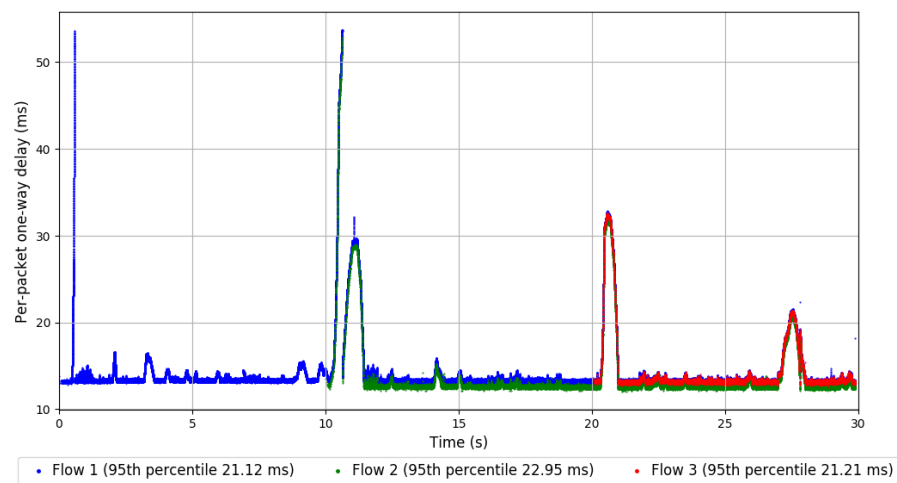
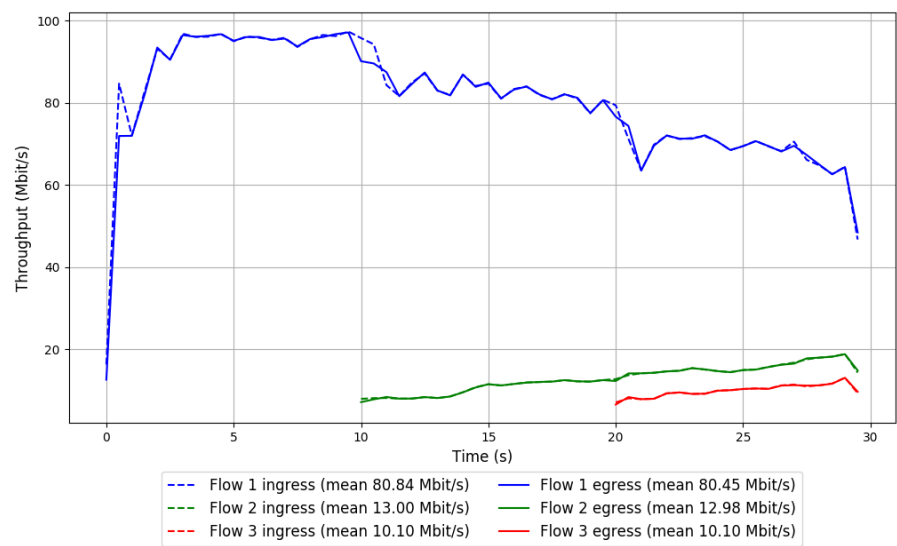
-- Flow 3:

Average throughput: 10.10 Mbit/s

95th percentile per-packet one-way delay: 21.213 ms

Loss rate: 0.00%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2018-04-10 22:42:20

End at: 2018-04-10 22:42:50

Local clock offset: -0.104 ms

Remote clock offset: 5.936 ms

Below is generated by plot.py at 2018-04-11 02:02:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.10 Mbit/s

95th percentile per-packet one-way delay: 42.128 ms

Loss rate: 0.74%

-- Flow 1:

Average throughput: 75.67 Mbit/s

95th percentile per-packet one-way delay: 41.881 ms

Loss rate: 0.78%

-- Flow 2:

Average throughput: 14.32 Mbit/s

95th percentile per-packet one-way delay: 42.734 ms

Loss rate: 0.47%

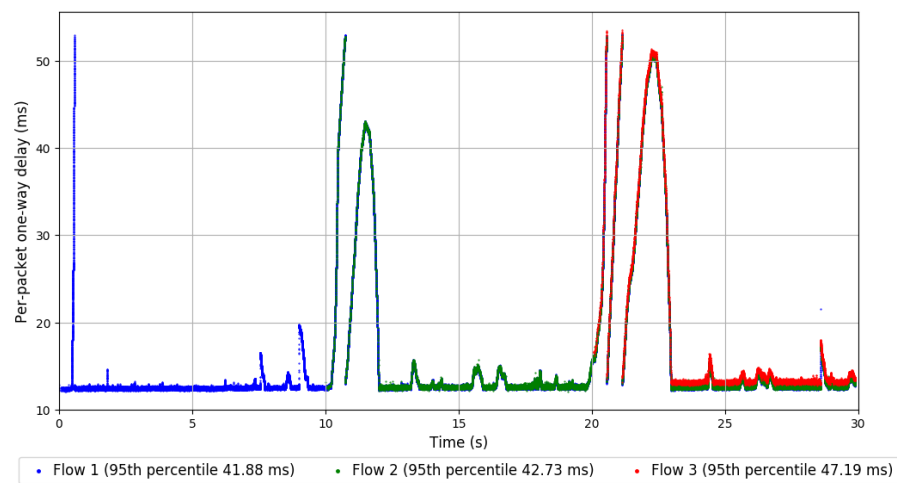
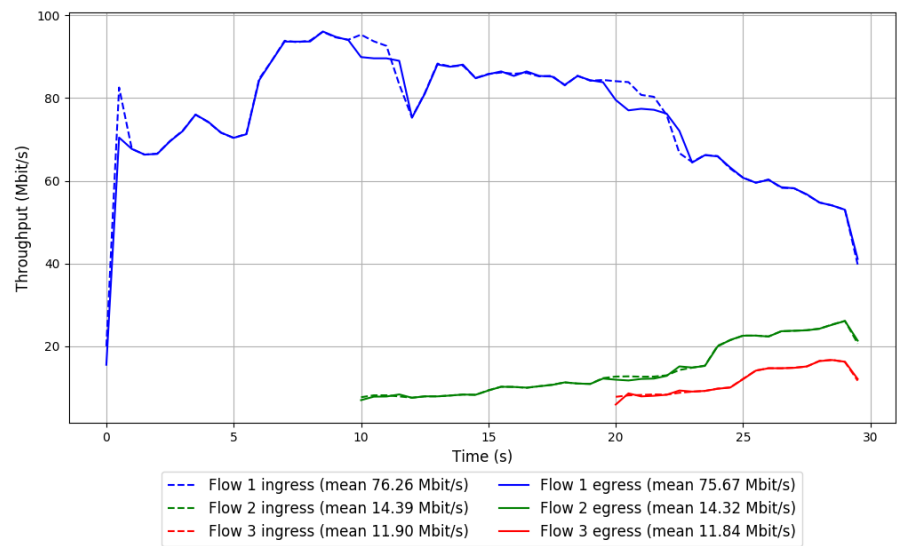
-- Flow 3:

Average throughput: 11.84 Mbit/s

95th percentile per-packet one-way delay: 47.186 ms

Loss rate: 0.55%

Run 3: Report of PCC — Data Link

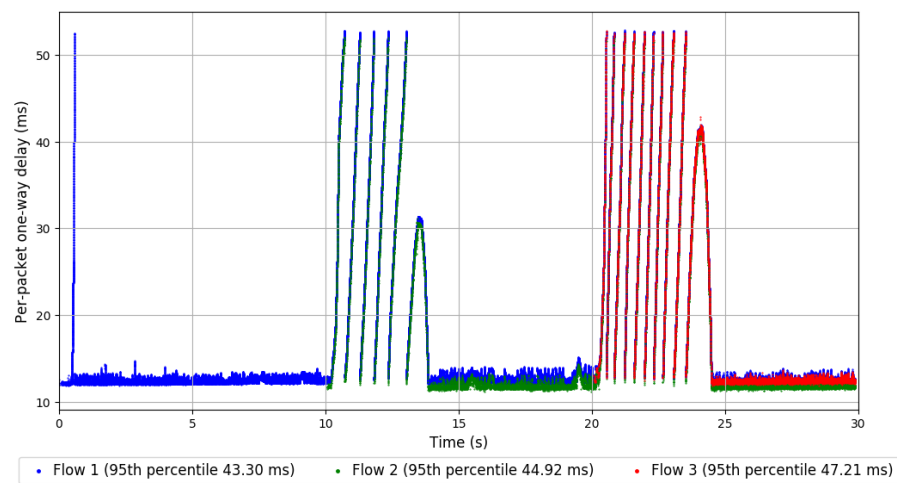
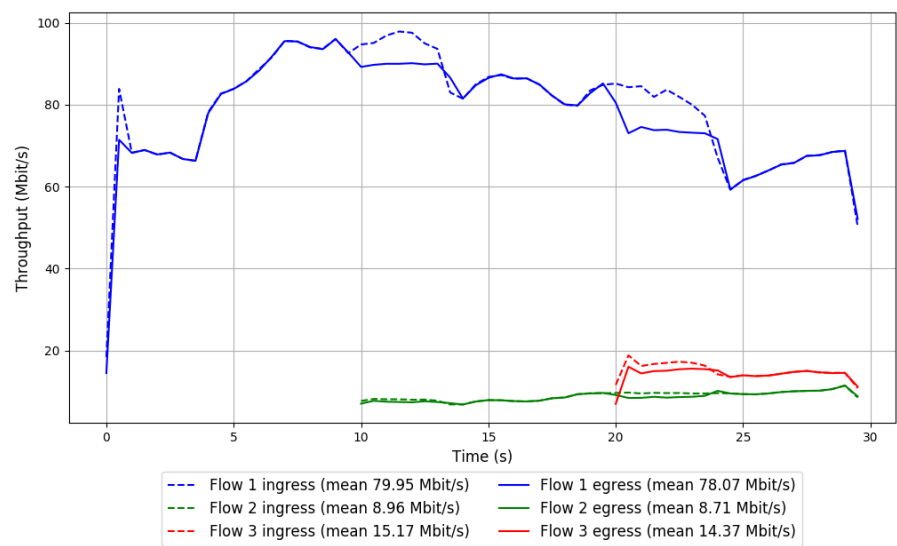


Run 4: Statistics of PCC

Start at: 2018-04-10 23:03:39
End at: 2018-04-10 23:04:09
Local clock offset: 1.85 ms
Remote clock offset: -4.531 ms

Below is generated by plot.py at 2018-04-11 02:02:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 88.59 Mbit/s
95th percentile per-packet one-way delay: 43.769 ms
Loss rate: 2.55%
-- Flow 1:
Average throughput: 78.07 Mbit/s
95th percentile per-packet one-way delay: 43.303 ms
Loss rate: 2.36%
-- Flow 2:
Average throughput: 8.71 Mbit/s
95th percentile per-packet one-way delay: 44.923 ms
Loss rate: 2.82%
-- Flow 3:
Average throughput: 14.37 Mbit/s
95th percentile per-packet one-way delay: 47.206 ms
Loss rate: 5.28%

Run 4: Report of PCC — Data Link

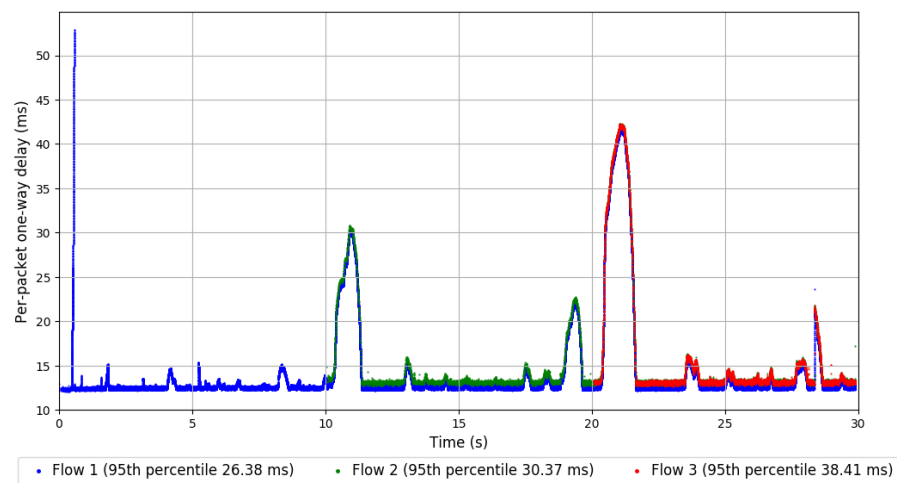
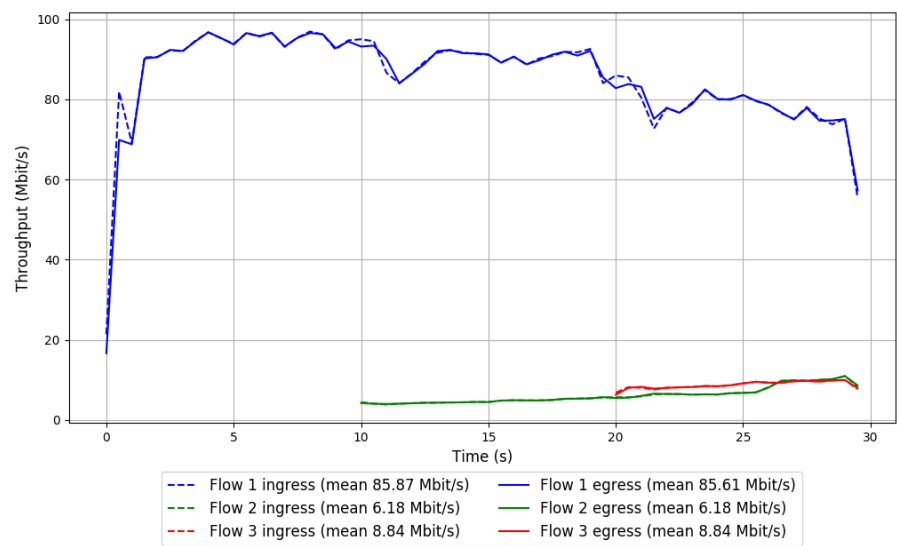


Run 5: Statistics of PCC

Start at: 2018-04-10 23:24:51
End at: 2018-04-10 23:25:21
Local clock offset: 0.348 ms
Remote clock offset: -6.734 ms

Below is generated by plot.py at 2018-04-11 02:02:25
Datalink statistics
-- Total of 3 flows:
Average throughput: 92.62 Mbit/s
95th percentile per-packet one-way delay: 27.077 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 85.61 Mbit/s
95th percentile per-packet one-way delay: 26.379 ms
Loss rate: 0.30%
-- Flow 2:
Average throughput: 6.18 Mbit/s
95th percentile per-packet one-way delay: 30.371 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 8.84 Mbit/s
95th percentile per-packet one-way delay: 38.415 ms
Loss rate: 0.00%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2018-04-10 23:46:02

End at: 2018-04-10 23:46:32

Local clock offset: -0.772 ms

Remote clock offset: -9.09 ms

Below is generated by plot.py at 2018-04-11 02:02:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.63 Mbit/s

95th percentile per-packet one-way delay: 37.800 ms

Loss rate: 1.69%

-- Flow 1:

Average throughput: 78.55 Mbit/s

95th percentile per-packet one-way delay: 35.886 ms

Loss rate: 1.52%

-- Flow 2:

Average throughput: 10.16 Mbit/s

95th percentile per-packet one-way delay: 40.941 ms

Loss rate: 2.10%

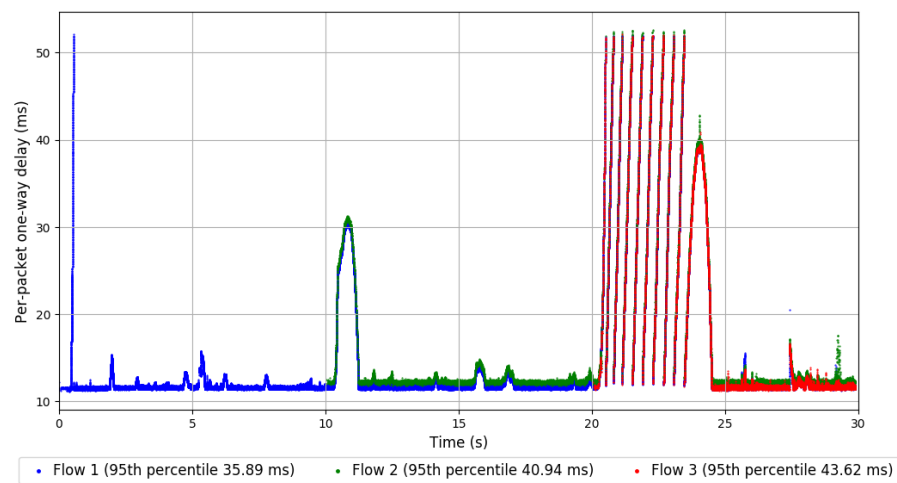
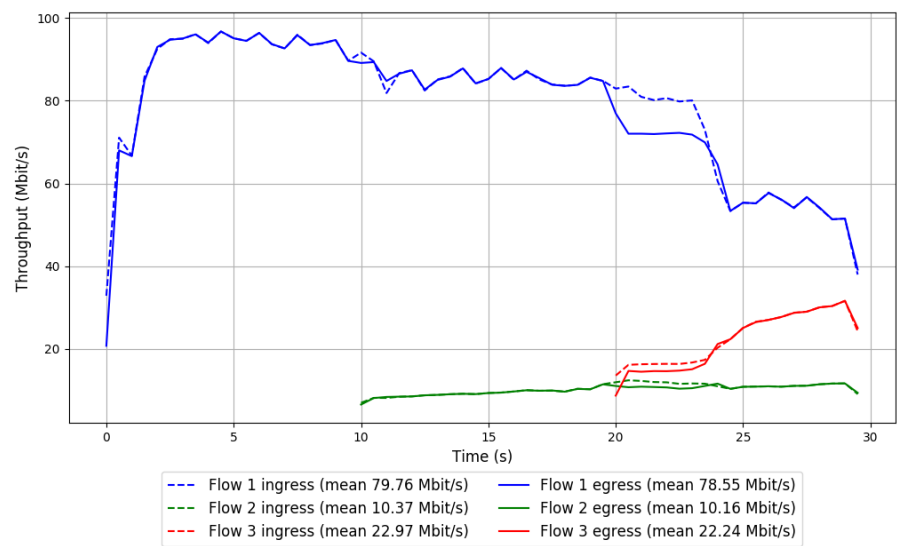
-- Flow 3:

Average throughput: 22.24 Mbit/s

95th percentile per-packet one-way delay: 43.624 ms

Loss rate: 3.18%

Run 6: Report of PCC — Data Link

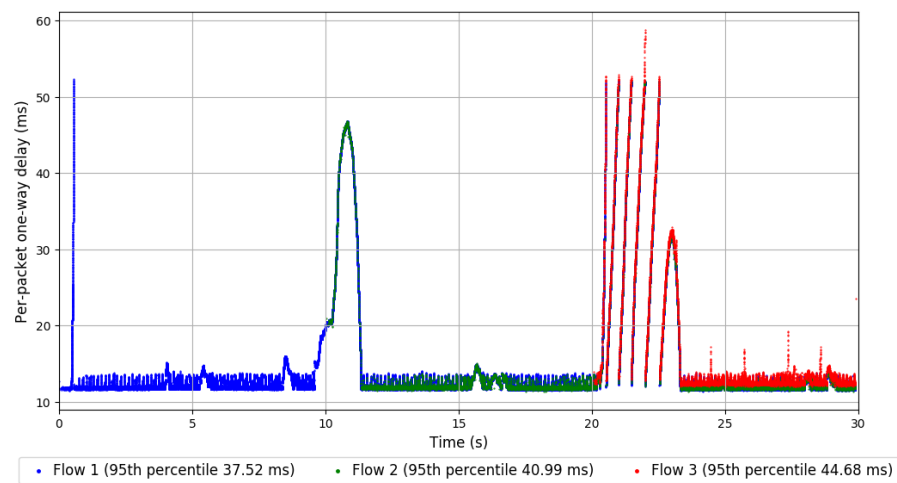
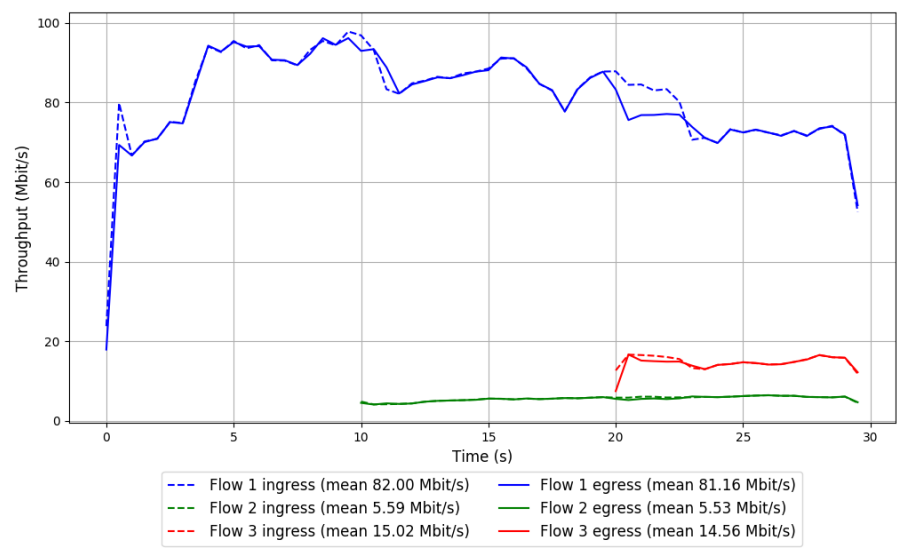


Run 7: Statistics of PCC

Start at: 2018-04-11 00:07:24
End at: 2018-04-11 00:07:54
Local clock offset: -0.844 ms
Remote clock offset: -0.743 ms

Below is generated by plot.py at 2018-04-11 02:02:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 89.61 Mbit/s
95th percentile per-packet one-way delay: 38.620 ms
Loss rate: 1.13%
-- Flow 1:
Average throughput: 81.16 Mbit/s
95th percentile per-packet one-way delay: 37.521 ms
Loss rate: 1.02%
-- Flow 2:
Average throughput: 5.53 Mbit/s
95th percentile per-packet one-way delay: 40.986 ms
Loss rate: 1.10%
-- Flow 3:
Average throughput: 14.56 Mbit/s
95th percentile per-packet one-way delay: 44.677 ms
Loss rate: 2.96%

Run 7: Report of PCC — Data Link

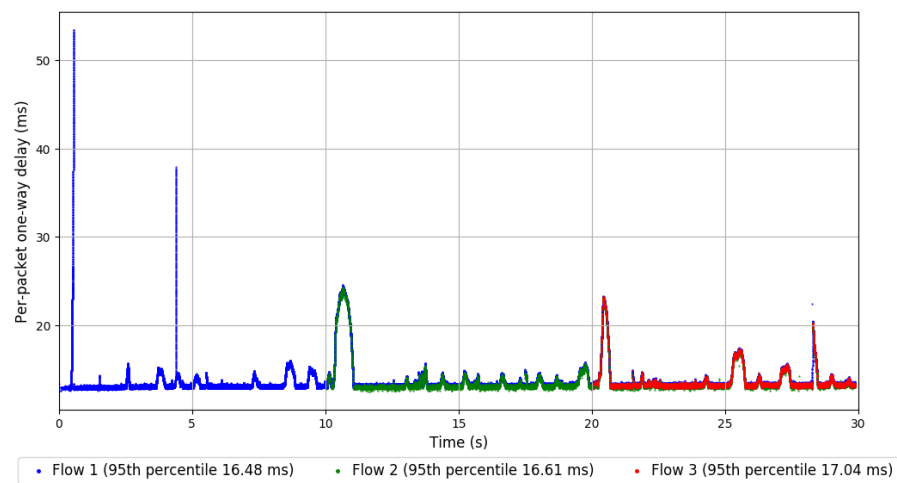
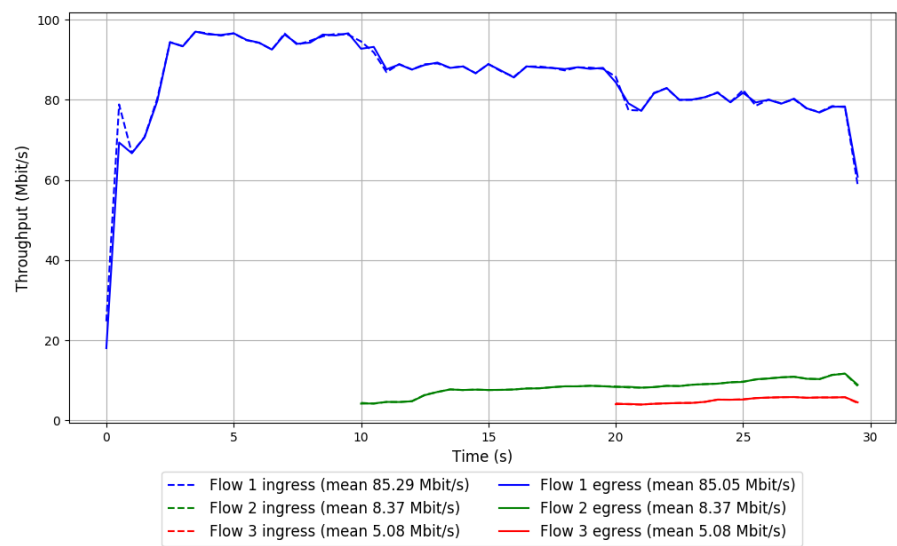


Run 8: Statistics of PCC

Start at: 2018-04-11 00:29:02
End at: 2018-04-11 00:29:32
Local clock offset: -0.096 ms
Remote clock offset: 4.375 ms

Below is generated by plot.py at 2018-04-11 02:02:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 92.29 Mbit/s
95th percentile per-packet one-way delay: 16.525 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 85.05 Mbit/s
95th percentile per-packet one-way delay: 16.484 ms
Loss rate: 0.28%
-- Flow 2:
Average throughput: 8.37 Mbit/s
95th percentile per-packet one-way delay: 16.614 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 5.08 Mbit/s
95th percentile per-packet one-way delay: 17.041 ms
Loss rate: 0.00%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2018-04-11 00:50:39

End at: 2018-04-11 00:51:09

Local clock offset: 2.384 ms

Remote clock offset: 2.672 ms

Below is generated by plot.py at 2018-04-11 02:02:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.70 Mbit/s

95th percentile per-packet one-way delay: 42.724 ms

Loss rate: 2.11%

-- Flow 1:

Average throughput: 81.90 Mbit/s

95th percentile per-packet one-way delay: 41.495 ms

Loss rate: 1.91%

-- Flow 2:

Average throughput: 8.81 Mbit/s

95th percentile per-packet one-way delay: 45.427 ms

Loss rate: 2.50%

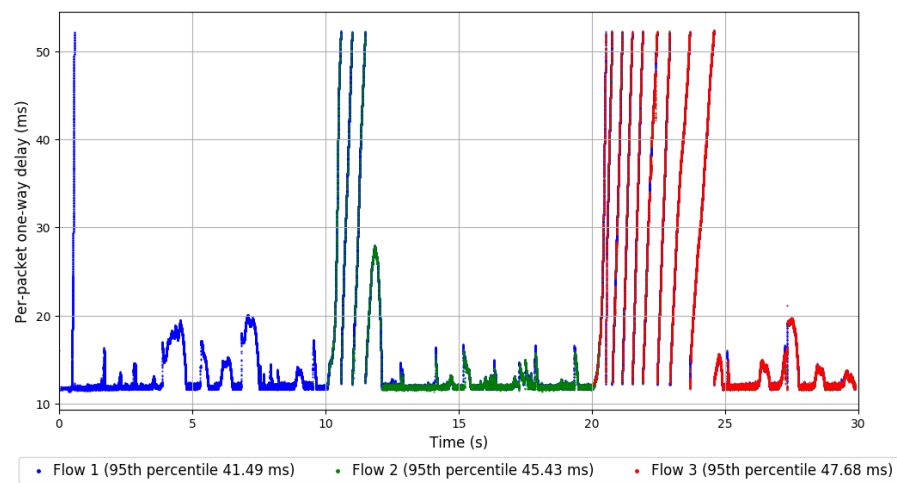
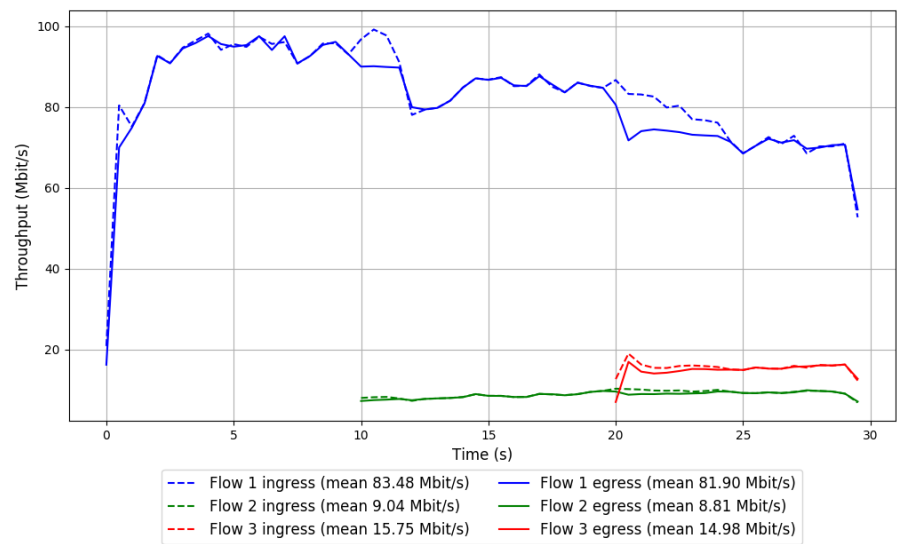
-- Flow 3:

Average throughput: 14.98 Mbit/s

95th percentile per-packet one-way delay: 47.683 ms

Loss rate: 4.90%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2018-04-11 01:12:03

End at: 2018-04-11 01:12:33

Local clock offset: 0.547 ms

Remote clock offset: 9.22 ms

Below is generated by plot.py at 2018-04-11 02:02:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.31 Mbit/s

95th percentile per-packet one-way delay: 17.349 ms

Loss rate: 0.25%

-- Flow 1:

Average throughput: 84.02 Mbit/s

95th percentile per-packet one-way delay: 17.021 ms

Loss rate: 0.27%

-- Flow 2:

Average throughput: 10.03 Mbit/s

95th percentile per-packet one-way delay: 17.809 ms

Loss rate: 0.00%

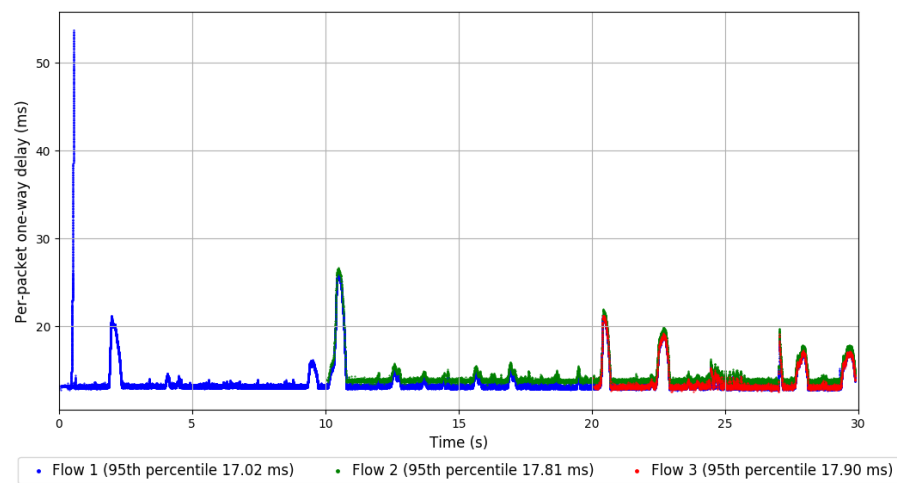
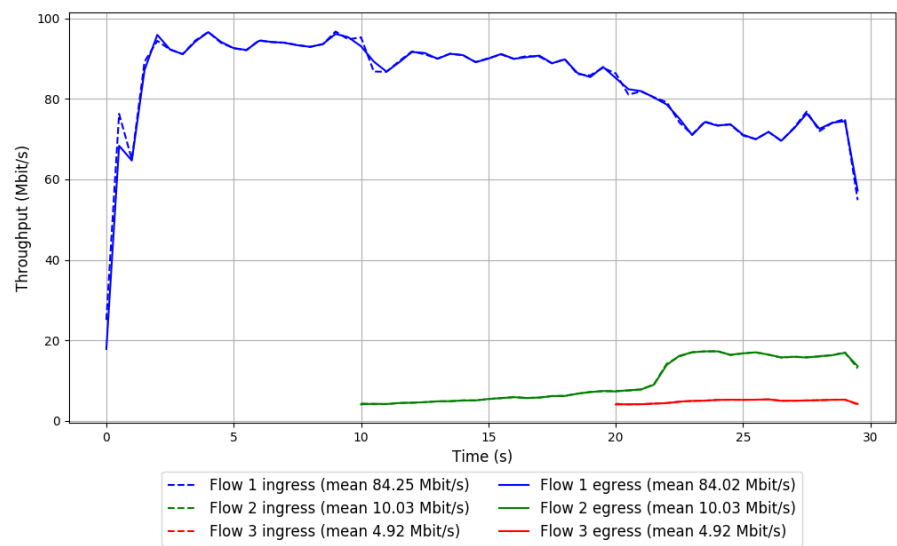
-- Flow 3:

Average throughput: 4.92 Mbit/s

95th percentile per-packet one-way delay: 17.897 ms

Loss rate: 0.00%

Run 10: Report of PCC — Data Link

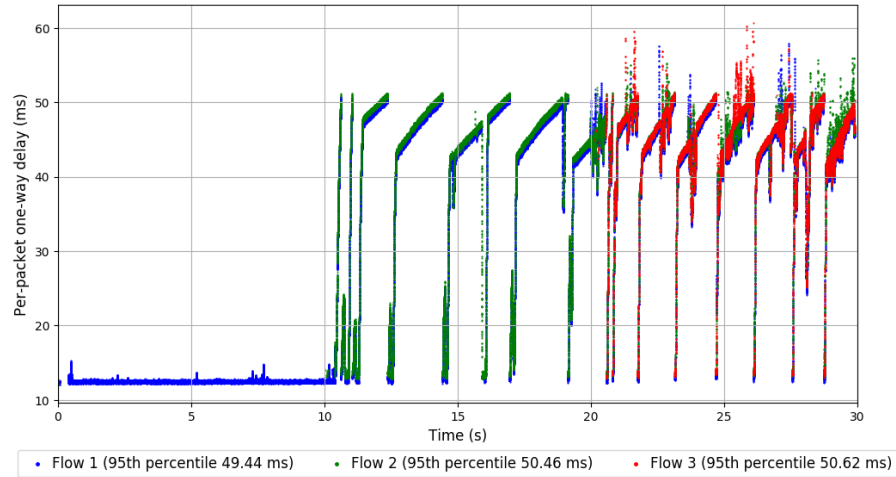
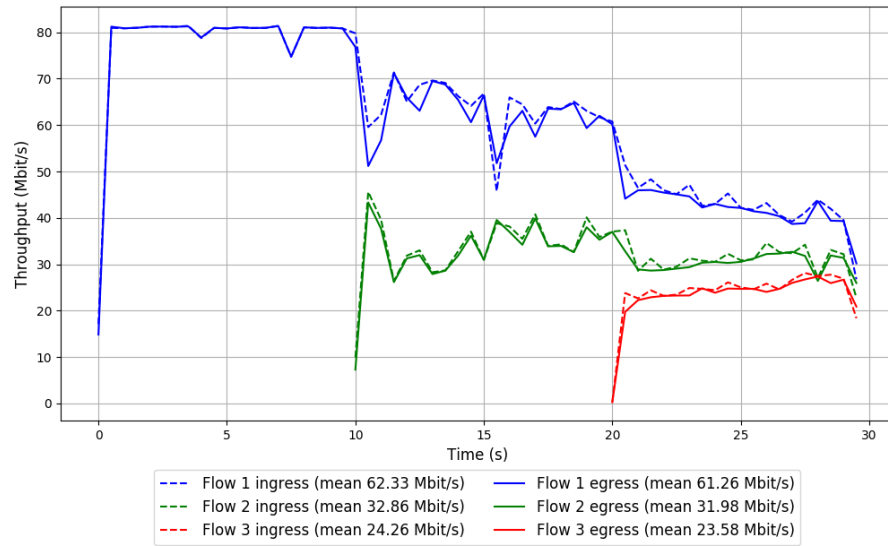


Run 1: Statistics of QUIC Cubic

Start at: 2018-04-10 21:53:25
End at: 2018-04-10 21:53:55
Local clock offset: 1.011 ms
Remote clock offset: -1.014 ms

Below is generated by plot.py at 2018-04-11 02:03:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 90.19 Mbit/s
95th percentile per-packet one-way delay: 49.898 ms
Loss rate: 1.92%
-- Flow 1:
Average throughput: 61.26 Mbit/s
95th percentile per-packet one-way delay: 49.436 ms
Loss rate: 1.60%
-- Flow 2:
Average throughput: 31.98 Mbit/s
95th percentile per-packet one-way delay: 50.457 ms
Loss rate: 2.52%
-- Flow 3:
Average throughput: 23.58 Mbit/s
95th percentile per-packet one-way delay: 50.615 ms
Loss rate: 2.76%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-04-10 22:16:01

End at: 2018-04-10 22:16:31

Local clock offset: 0.714 ms

Remote clock offset: 0.551 ms

Below is generated by plot.py at 2018-04-11 02:03:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 90.66 Mbit/s

95th percentile per-packet one-way delay: 49.909 ms

Loss rate: 1.89%

-- Flow 1:

Average throughput: 62.37 Mbit/s

95th percentile per-packet one-way delay: 49.950 ms

Loss rate: 1.59%

-- Flow 2:

Average throughput: 34.16 Mbit/s

95th percentile per-packet one-way delay: 49.746 ms

Loss rate: 2.46%

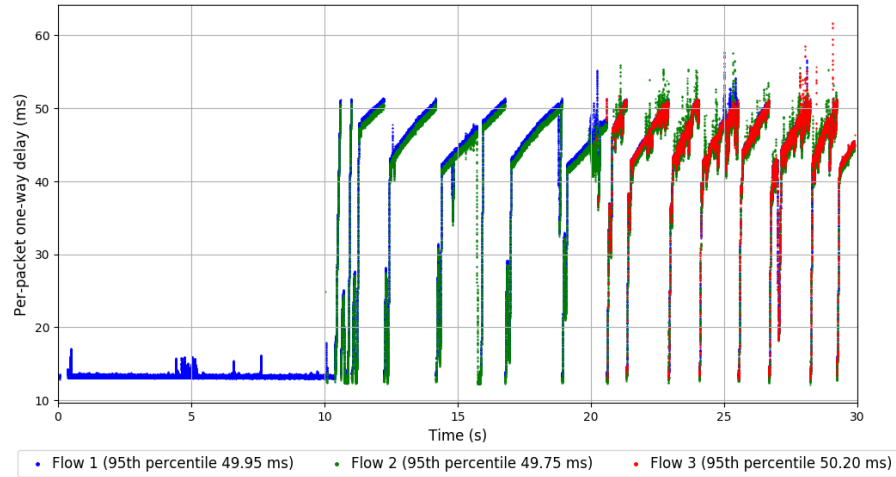
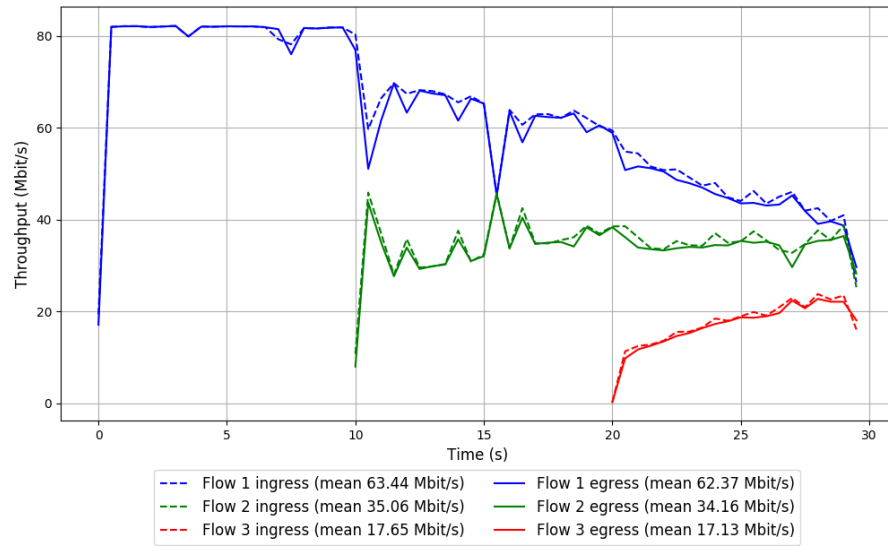
-- Flow 3:

Average throughput: 17.13 Mbit/s

95th percentile per-packet one-way delay: 50.196 ms

Loss rate: 2.89%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-04-10 22:37:28

End at: 2018-04-10 22:37:58

Local clock offset: 0.215 ms

Remote clock offset: 5.869 ms

Below is generated by plot.py at 2018-04-11 02:04:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.11 Mbit/s

95th percentile per-packet one-way delay: 49.918 ms

Loss rate: 2.00%

-- Flow 1:

Average throughput: 70.30 Mbit/s

95th percentile per-packet one-way delay: 49.916 ms

Loss rate: 1.86%

-- Flow 2:

Average throughput: 24.21 Mbit/s

95th percentile per-packet one-way delay: 49.898 ms

Loss rate: 2.38%

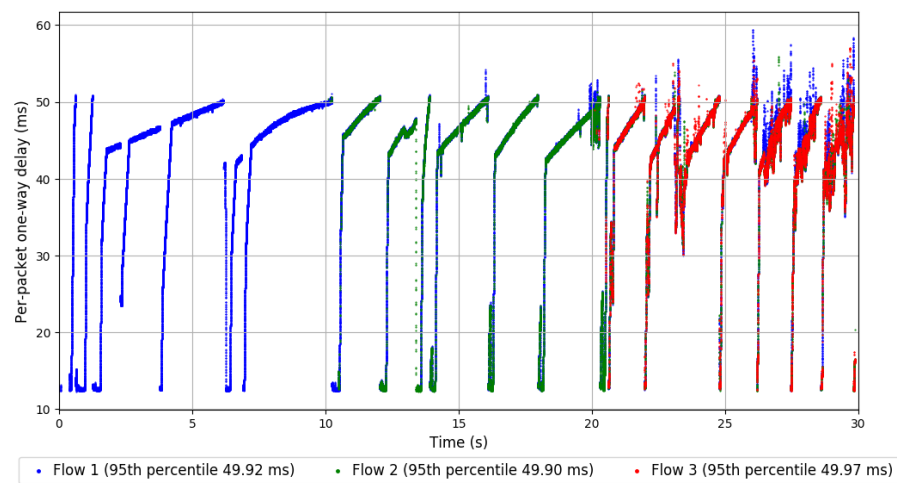
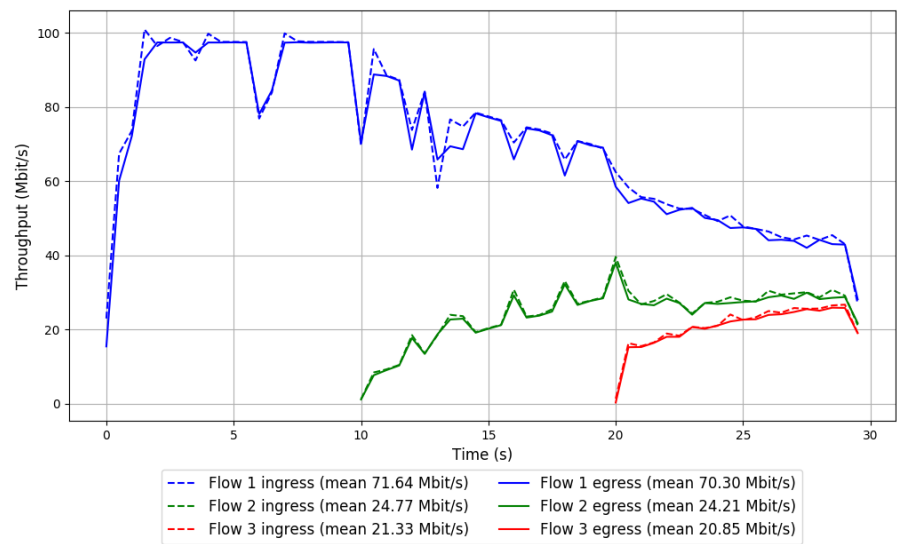
-- Flow 3:

Average throughput: 20.85 Mbit/s

95th percentile per-packet one-way delay: 49.972 ms

Loss rate: 2.58%

Run 3: Report of QUIC Cubic — Data Link

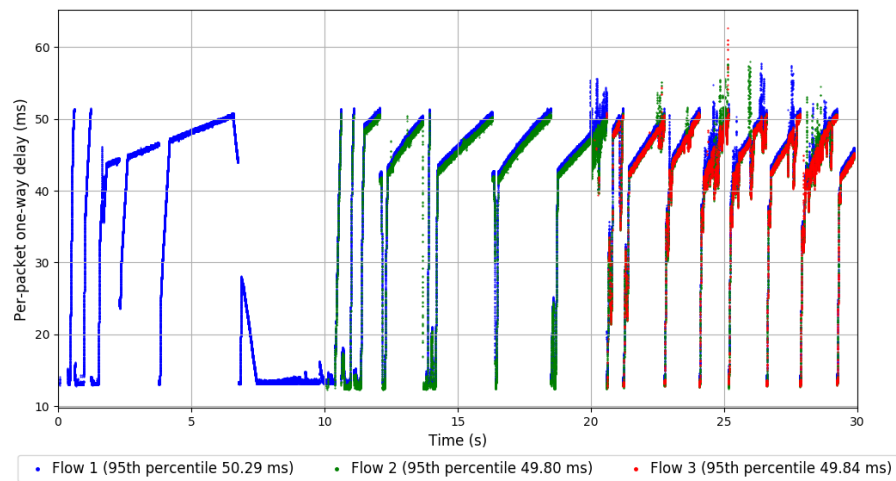
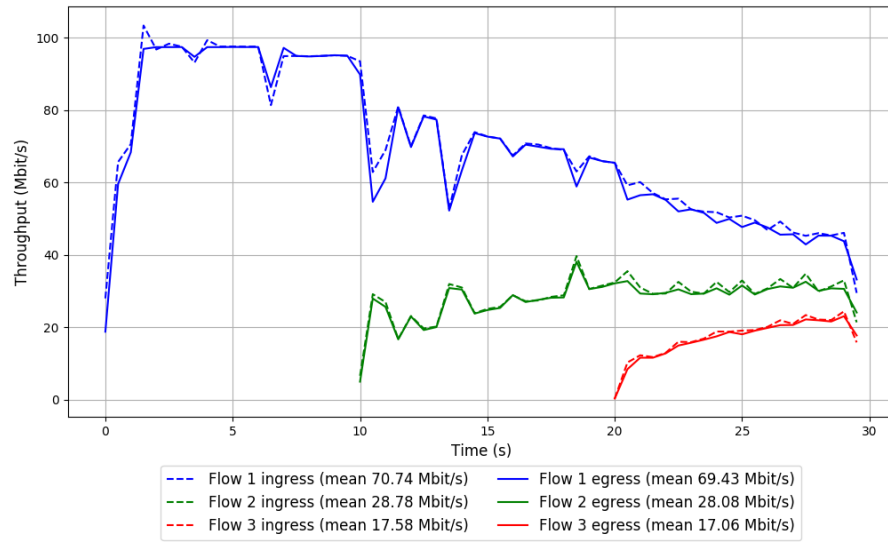


Run 4: Statistics of QUIC Cubic

Start at: 2018-04-10 22:58:54
End at: 2018-04-10 22:59:24
Local clock offset: 1.655 ms
Remote clock offset: -2.217 ms

Below is generated by plot.py at 2018-04-11 02:04:07
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.64 Mbit/s
95th percentile per-packet one-way delay: 50.169 ms
Loss rate: 1.92%
-- Flow 1:
Average throughput: 69.43 Mbit/s
95th percentile per-packet one-way delay: 50.289 ms
Loss rate: 1.74%
-- Flow 2:
Average throughput: 28.08 Mbit/s
95th percentile per-packet one-way delay: 49.805 ms
Loss rate: 2.28%
-- Flow 3:
Average throughput: 17.06 Mbit/s
95th percentile per-packet one-way delay: 49.843 ms
Loss rate: 2.95%

Run 4: Report of QUIC Cubic — Data Link

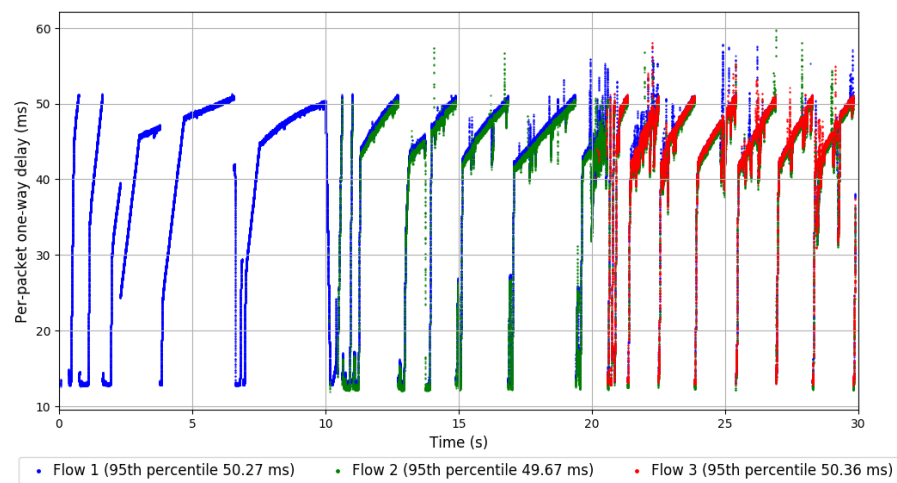
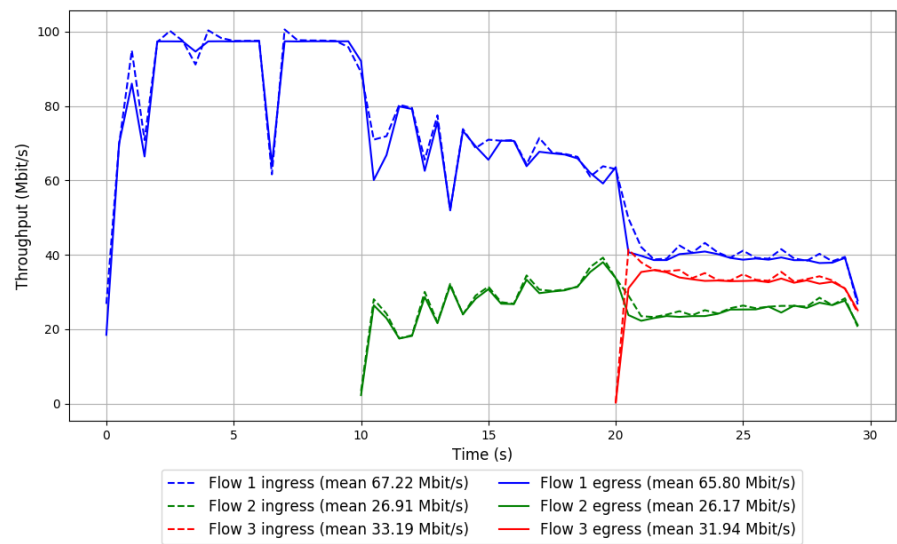


Run 5: Statistics of QUIC Cubic

Start at: 2018-04-10 23:20:05
End at: 2018-04-10 23:20:35
Local clock offset: 0.989 ms
Remote clock offset: -6.334 ms

Below is generated by plot.py at 2018-04-11 02:04:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.56 Mbit/s
95th percentile per-packet one-way delay: 50.196 ms
Loss rate: 2.36%
-- Flow 1:
Average throughput: 65.80 Mbit/s
95th percentile per-packet one-way delay: 50.265 ms
Loss rate: 2.04%
-- Flow 2:
Average throughput: 26.17 Mbit/s
95th percentile per-packet one-way delay: 49.674 ms
Loss rate: 2.72%
-- Flow 3:
Average throughput: 31.94 Mbit/s
95th percentile per-packet one-way delay: 50.357 ms
Loss rate: 3.81%

Run 5: Report of QUIC Cubic — Data Link

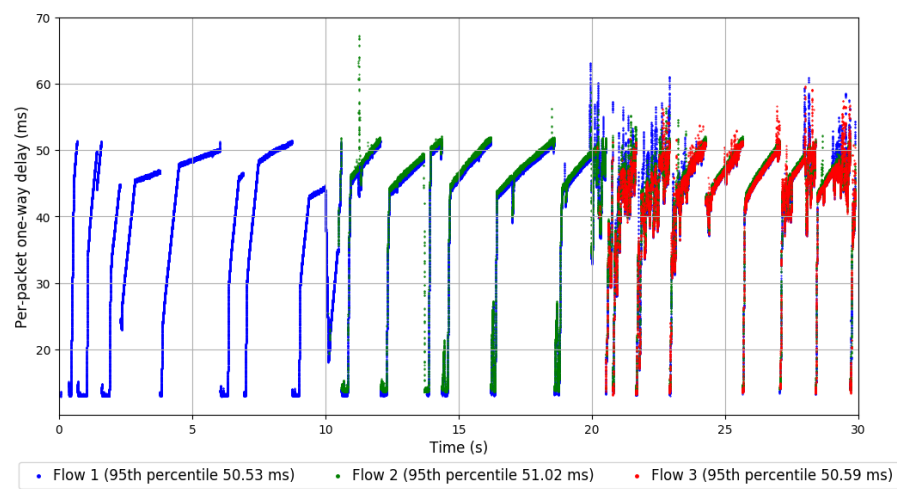
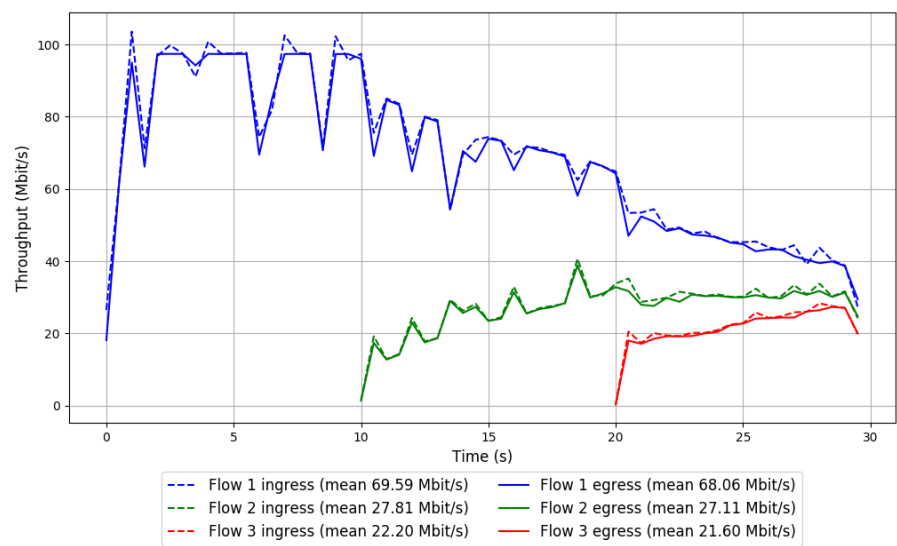


Run 6: Statistics of QUIC Cubic

Start at: 2018-04-10 23:41:20
End at: 2018-04-10 23:41:50
Local clock offset: -1.21 ms
Remote clock offset: -7.689 ms

Below is generated by plot.py at 2018-04-11 02:04:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.05 Mbit/s
95th percentile per-packet one-way delay: 50.607 ms
Loss rate: 2.21%
-- Flow 1:
Average throughput: 68.06 Mbit/s
95th percentile per-packet one-way delay: 50.534 ms
Loss rate: 2.10%
-- Flow 2:
Average throughput: 27.11 Mbit/s
95th percentile per-packet one-way delay: 51.022 ms
Loss rate: 2.40%
-- Flow 3:
Average throughput: 21.60 Mbit/s
95th percentile per-packet one-way delay: 50.585 ms
Loss rate: 2.71%

Run 6: Report of QUIC Cubic — Data Link

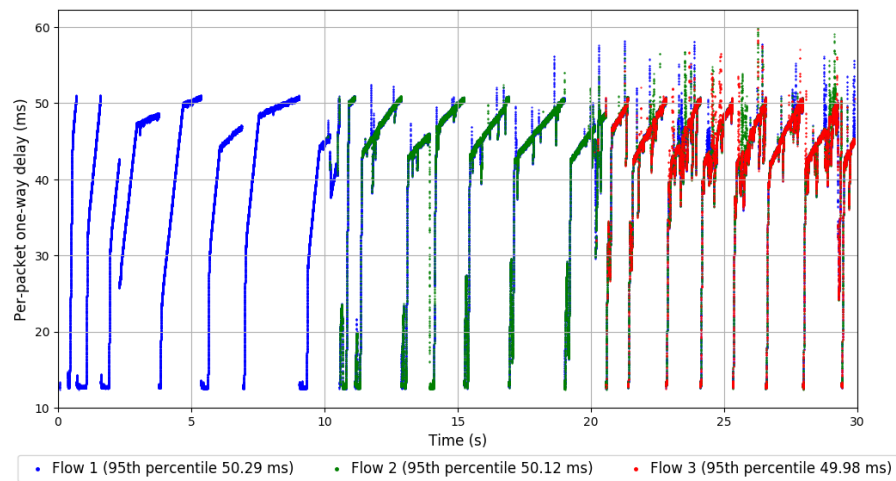
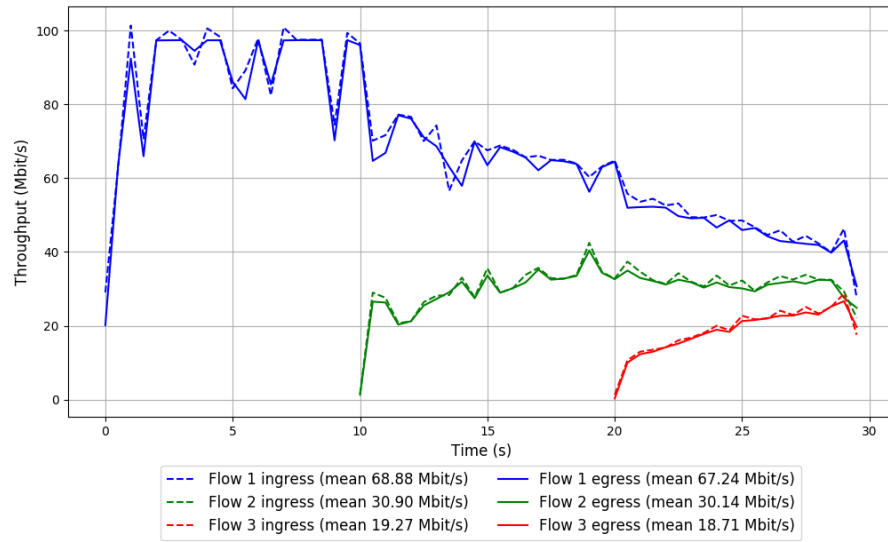


Run 7: Statistics of QUIC Cubic

Start at: 2018-04-11 00:02:29
End at: 2018-04-11 00:02:59
Local clock offset: -0.86 ms
Remote clock offset: -2.578 ms

Below is generated by plot.py at 2018-04-11 02:04:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.32 Mbit/s
95th percentile per-packet one-way delay: 50.245 ms
Loss rate: 2.34%
-- Flow 1:
Average throughput: 67.24 Mbit/s
95th percentile per-packet one-way delay: 50.292 ms
Loss rate: 2.27%
-- Flow 2:
Average throughput: 30.14 Mbit/s
95th percentile per-packet one-way delay: 50.117 ms
Loss rate: 2.46%
-- Flow 3:
Average throughput: 18.71 Mbit/s
95th percentile per-packet one-way delay: 49.985 ms
Loss rate: 2.79%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-04-11 00:24:16

End at: 2018-04-11 00:24:46

Local clock offset: -0.339 ms

Remote clock offset: 3.493 ms

Below is generated by plot.py at 2018-04-11 02:04:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.57 Mbit/s

95th percentile per-packet one-way delay: 49.352 ms

Loss rate: 1.21%

-- Flow 1:

Average throughput: 57.50 Mbit/s

95th percentile per-packet one-way delay: 49.260 ms

Loss rate: 0.92%

-- Flow 2:

Average throughput: 34.95 Mbit/s

95th percentile per-packet one-way delay: 49.632 ms

Loss rate: 1.79%

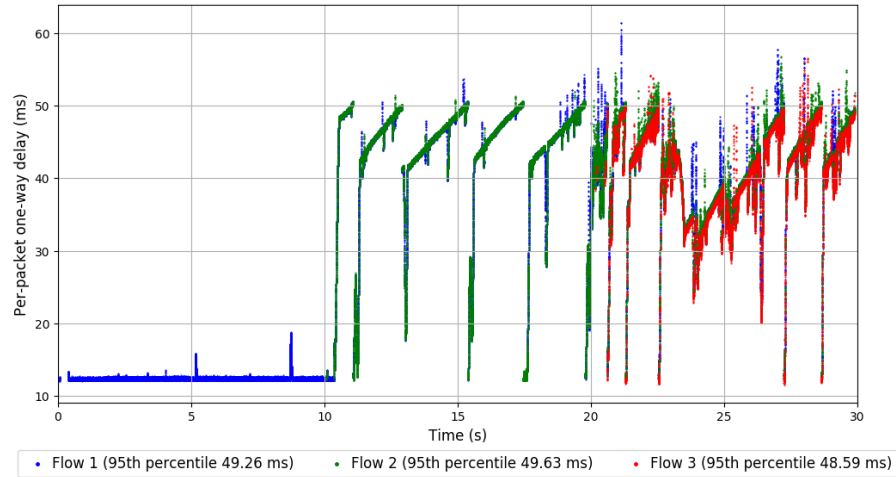
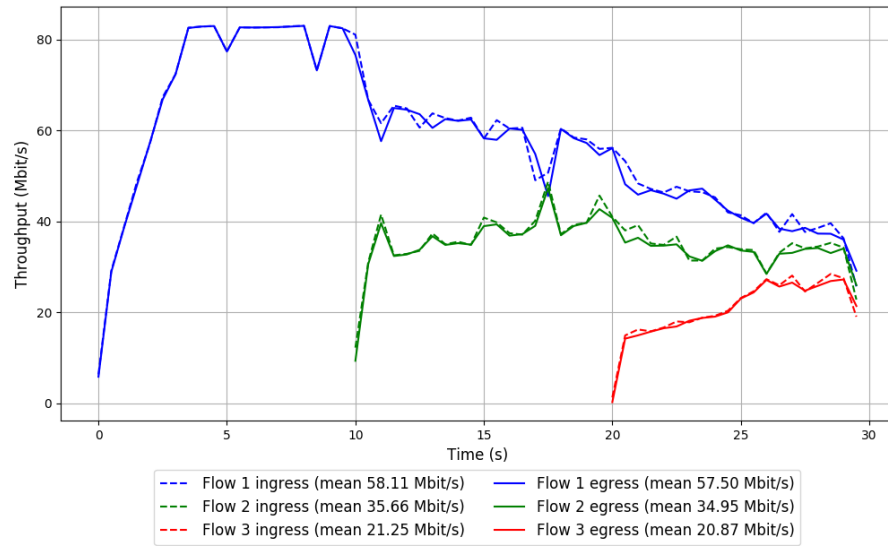
-- Flow 3:

Average throughput: 20.87 Mbit/s

95th percentile per-packet one-way delay: 48.587 ms

Loss rate: 1.67%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-04-11 00:45:49

End at: 2018-04-11 00:46:19

Local clock offset: 2.2 ms

Remote clock offset: 1.68 ms

Below is generated by plot.py at 2018-04-11 02:05:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 90.97 Mbit/s

95th percentile per-packet one-way delay: 47.877 ms

Loss rate: 1.85%

-- Flow 1:

Average throughput: 60.84 Mbit/s

95th percentile per-packet one-way delay: 47.715 ms

Loss rate: 1.47%

-- Flow 2:

Average throughput: 32.15 Mbit/s

95th percentile per-packet one-way delay: 48.282 ms

Loss rate: 2.36%

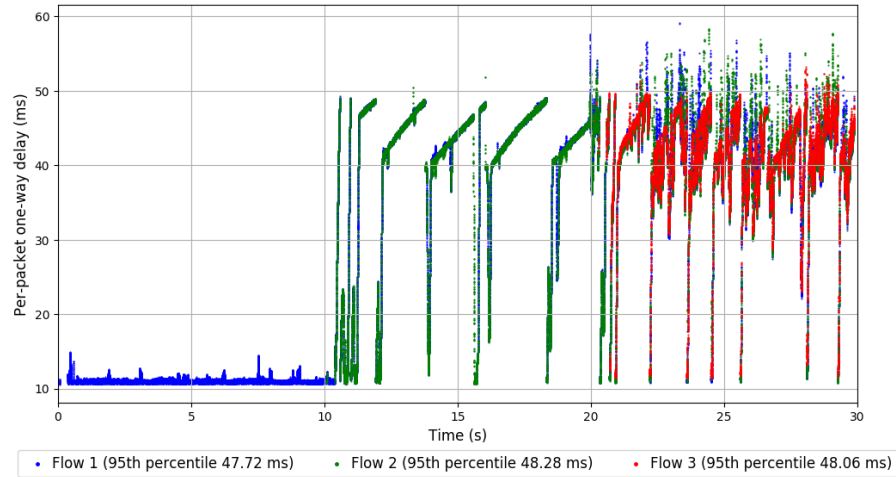
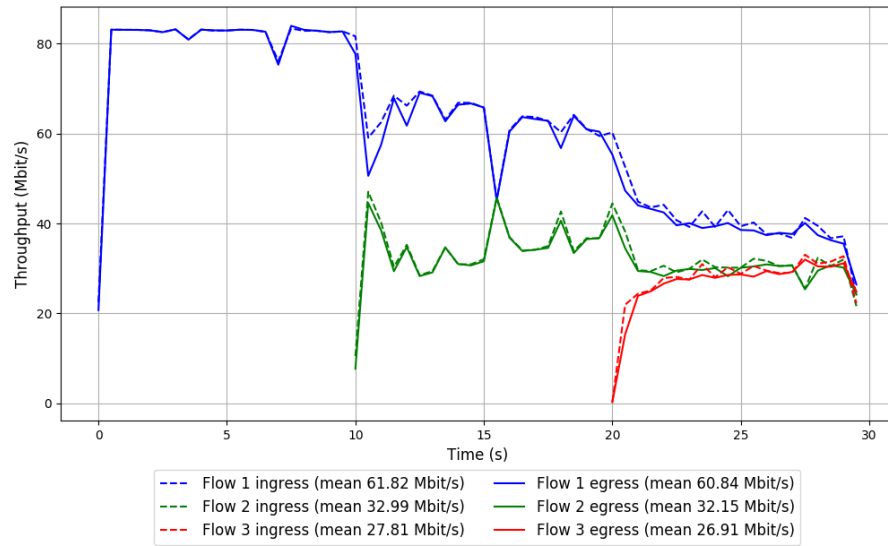
-- Flow 3:

Average throughput: 26.91 Mbit/s

95th percentile per-packet one-way delay: 48.061 ms

Loss rate: 3.26%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-04-11 01:07:16

End at: 2018-04-11 01:07:46

Local clock offset: 1.905 ms

Remote clock offset: 7.293 ms

Below is generated by plot.py at 2018-04-11 02:05:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.53 Mbit/s

95th percentile per-packet one-way delay: 49.667 ms

Loss rate: 2.00%

-- Flow 1:

Average throughput: 68.06 Mbit/s

95th percentile per-packet one-way delay: 49.677 ms

Loss rate: 1.82%

-- Flow 2:

Average throughput: 27.11 Mbit/s

95th percentile per-packet one-way delay: 49.701 ms

Loss rate: 2.35%

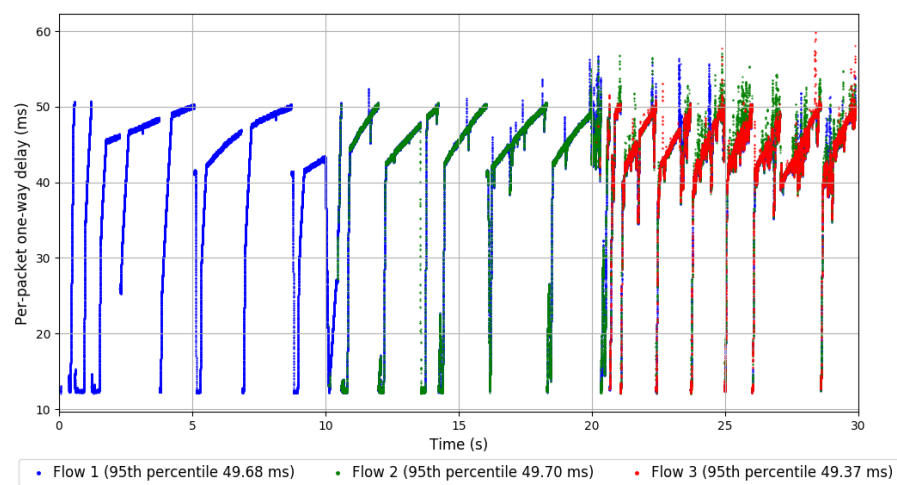
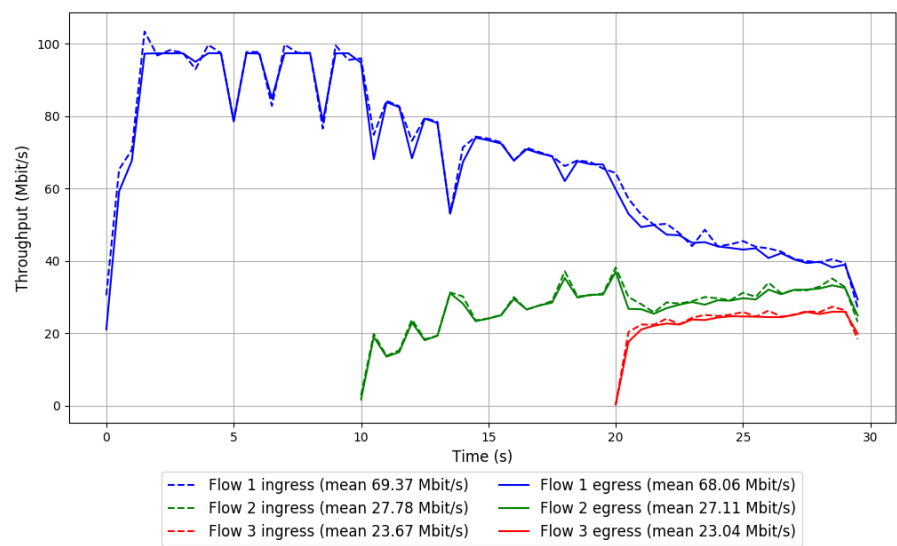
-- Flow 3:

Average throughput: 23.04 Mbit/s

95th percentile per-packet one-way delay: 49.369 ms

Loss rate: 2.78%

Run 10: Report of QUIC Cubic — Data Link

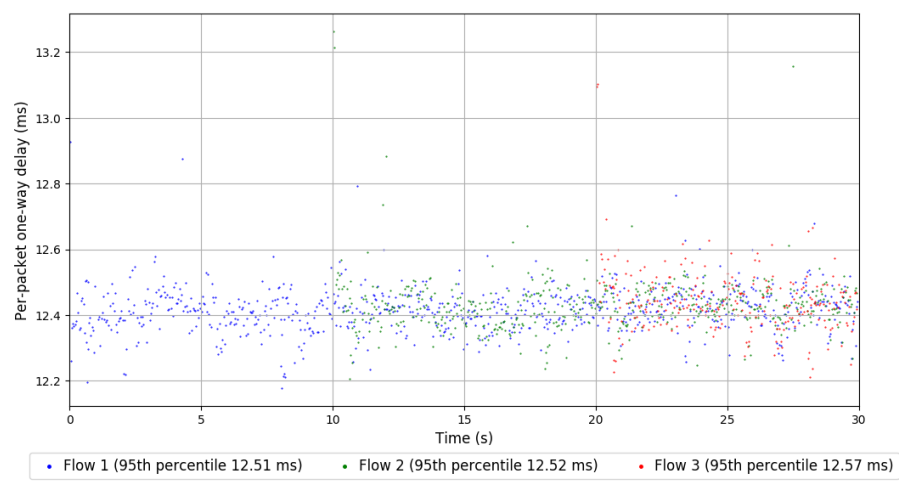
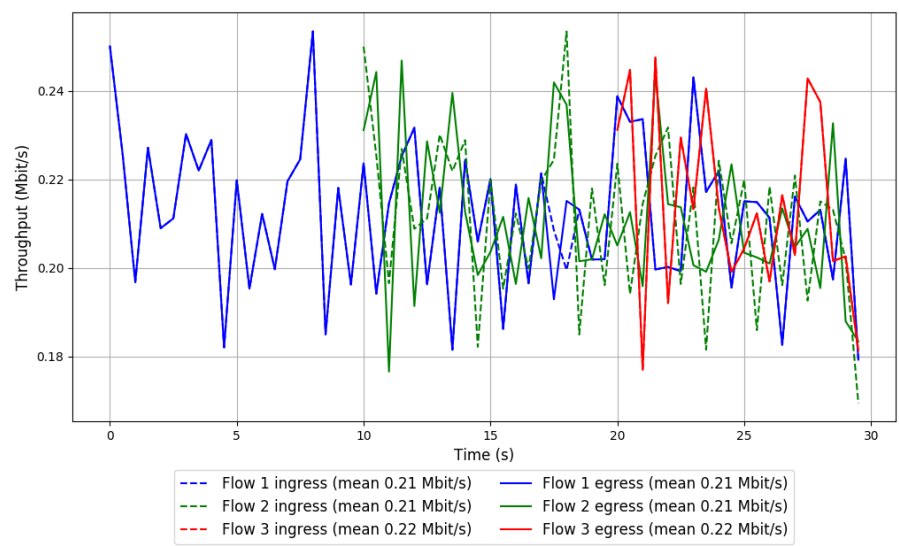


```
Run 1: Statistics of SCReAM

Start at: 2018-04-10 22:01:45
End at: 2018-04-10 22:02:15
Local clock offset: 0.889 ms
Remote clock offset: -2.029 ms

# Below is generated by plot.py at 2018-04-11 02:05:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 12.525 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 12.513 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 12.518 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 12.573 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

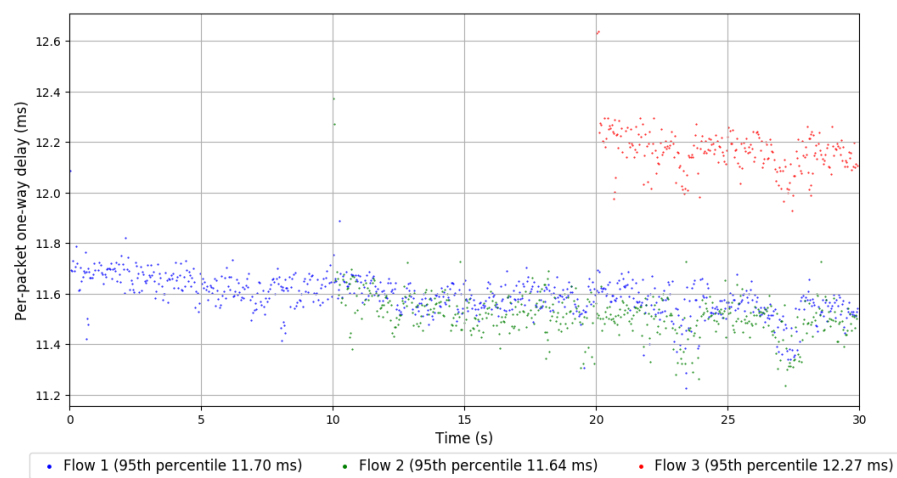
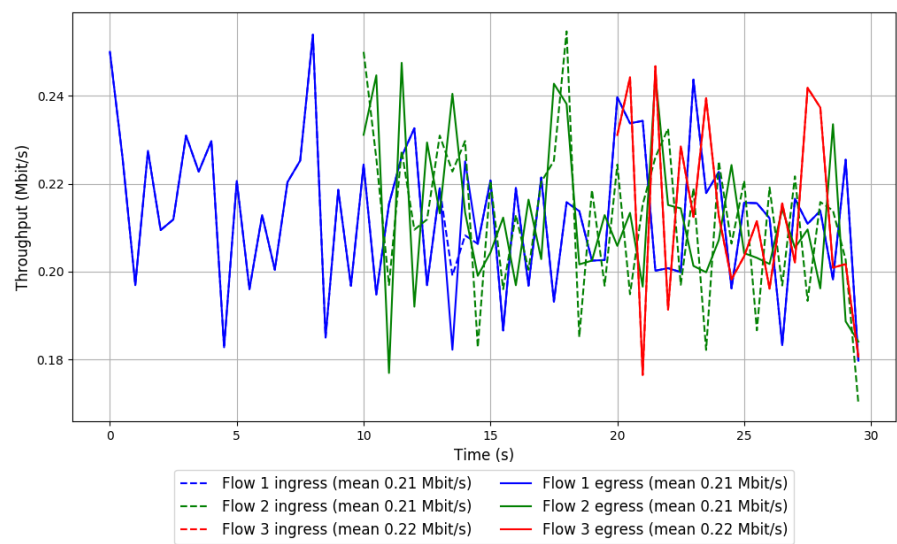


```
Run 2: Statistics of SReAM

Start at: 2018-04-10 22:24:26
End at: 2018-04-10 22:24:56
Local clock offset: 0.677 ms
Remote clock offset: 2.925 ms

# Below is generated by plot.py at 2018-04-11 02:05:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 12.199 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 11.698 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 11.641 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 12.266 ms
Loss rate: 0.00%
```


Run 2: Report of SReAM — Data Link



Run 3: Statistics of SReAM

Start at: 2018-04-10 22:46:02

End at: 2018-04-10 22:46:32

Local clock offset: 0.815 ms

Remote clock offset: 5.698 ms

Below is generated by plot.py at 2018-04-11 02:05:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 11.653 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 11.573 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 11.642 ms

Loss rate: 0.00%

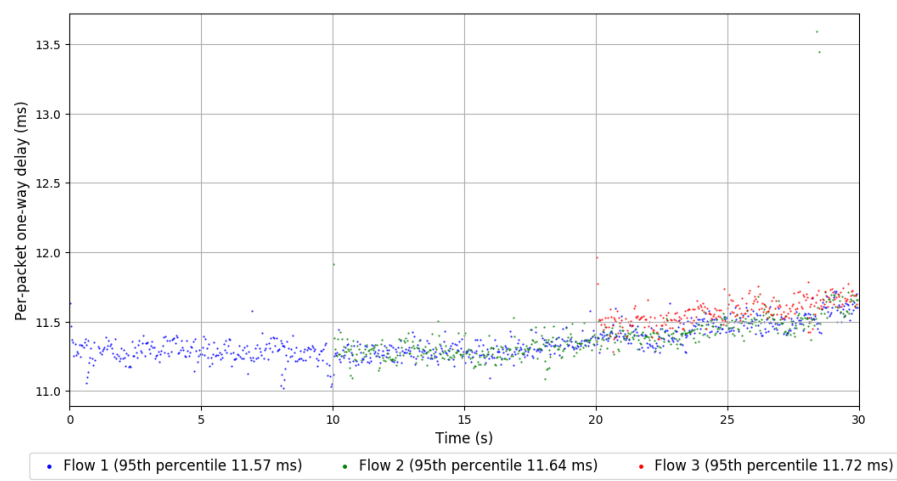
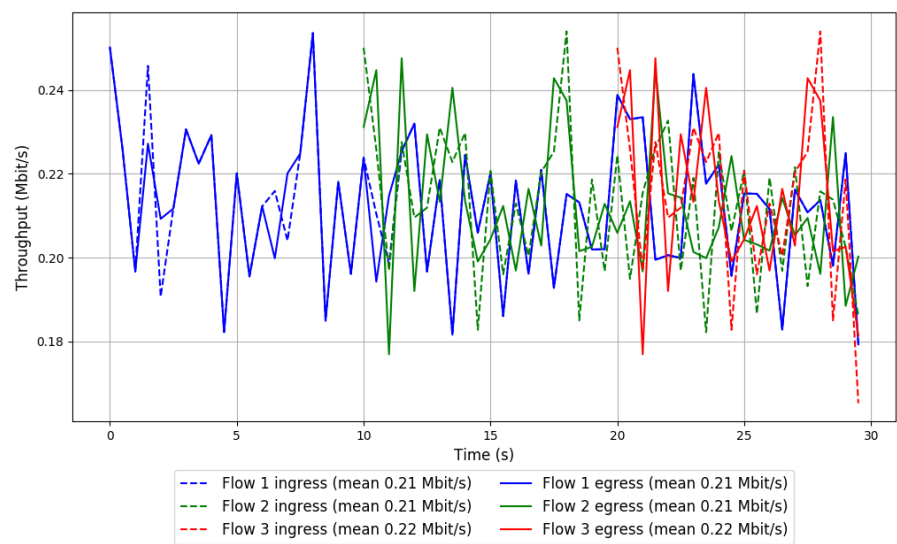
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 11.719 ms

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link

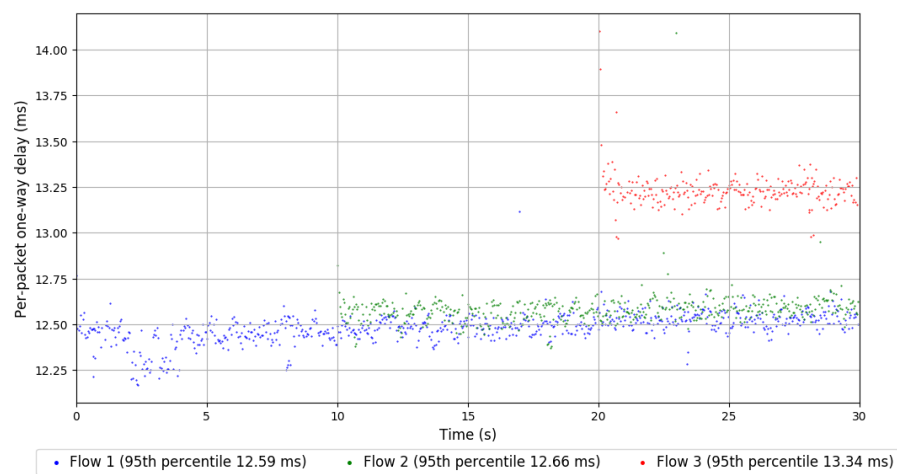
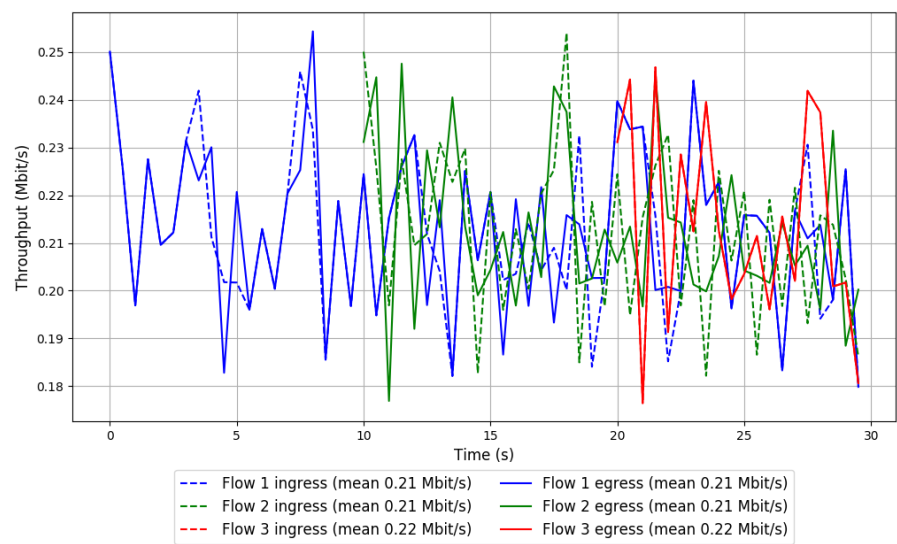


Run 4: Statistics of SReAM

Start at: 2018-04-10 23:07:13
End at: 2018-04-10 23:07:43
Local clock offset: 0.965 ms
Remote clock offset: -5.157 ms

Below is generated by plot.py at 2018-04-11 02:05:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 13.256 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 12.589 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 12.659 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 13.335 ms
Loss rate: 0.00%

Run 4: Report of SReAM — Data Link

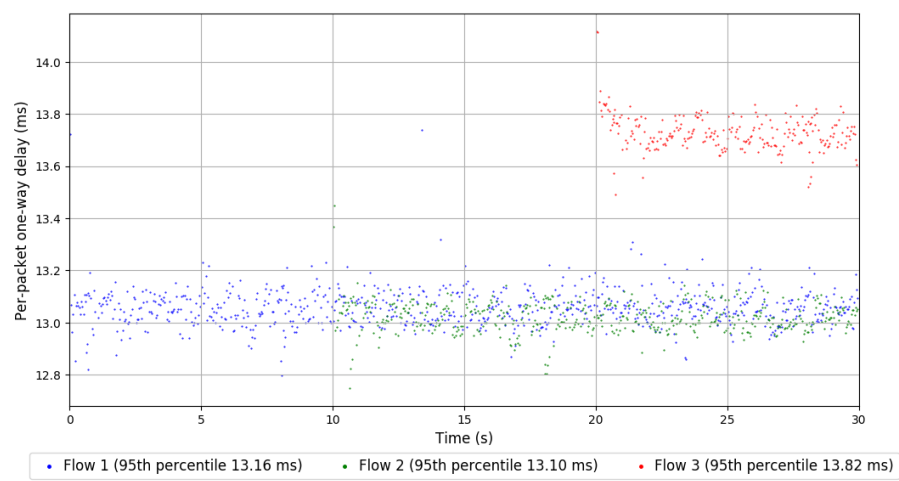
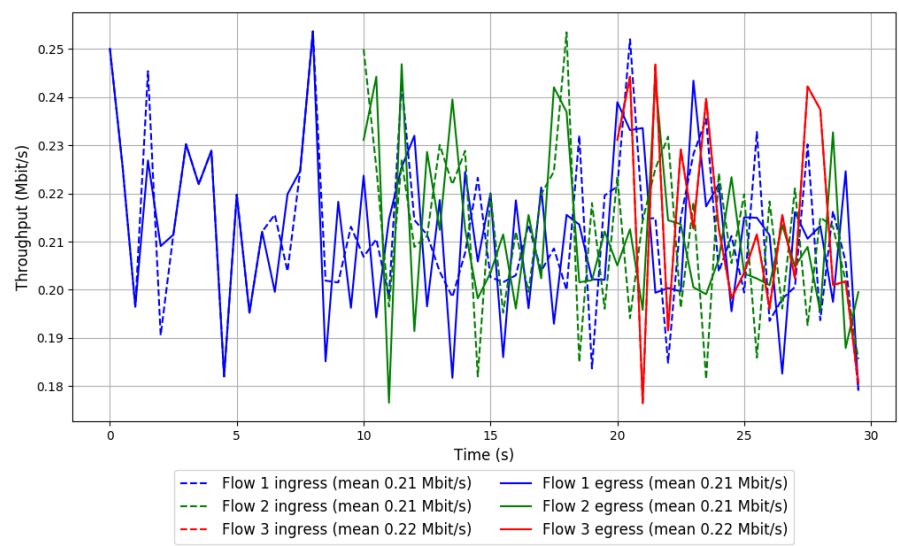


Run 5: Statistics of SReAM

Start at: 2018-04-10 23:28:26
End at: 2018-04-10 23:28:56
Local clock offset: -0.1 ms
Remote clock offset: -6.442 ms

Below is generated by plot.py at 2018-04-11 02:05:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 13.754 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 13.157 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 13.103 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 13.819 ms
Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SReAM

Start at: 2018-04-10 23:49:40

End at: 2018-04-10 23:50:10

Local clock offset: -0.722 ms

Remote clock offset: -8.49 ms

Below is generated by plot.py at 2018-04-11 02:05:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 12.211 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 12.148 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 12.248 ms

Loss rate: 0.00%

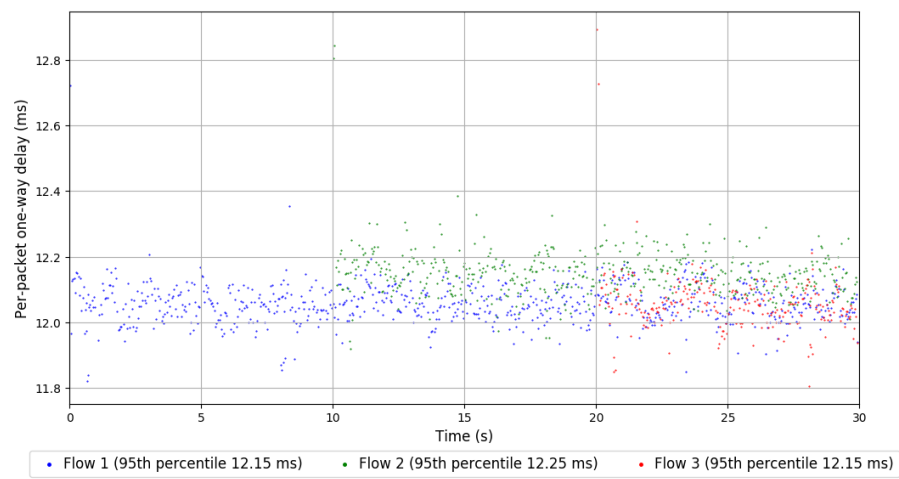
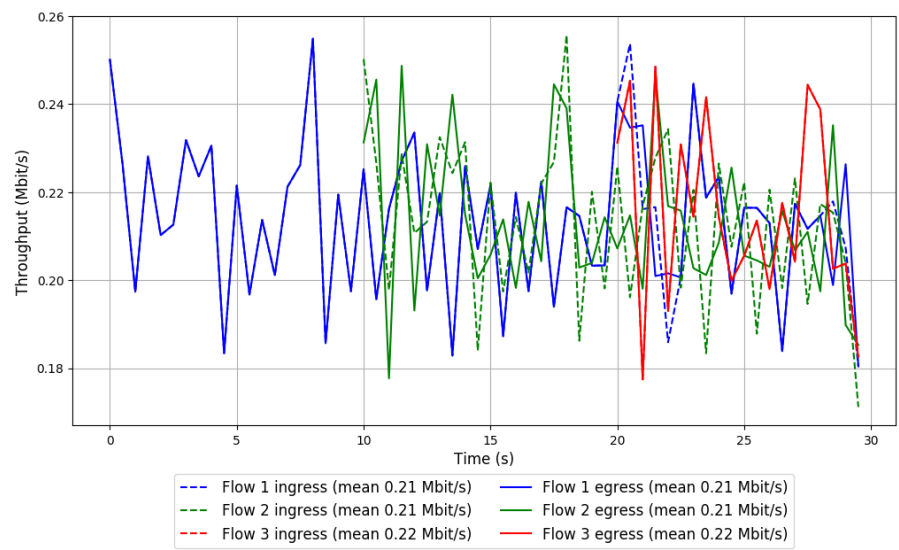
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 12.149 ms

Loss rate: 0.00%

Run 6: Report of SReAM — Data Link

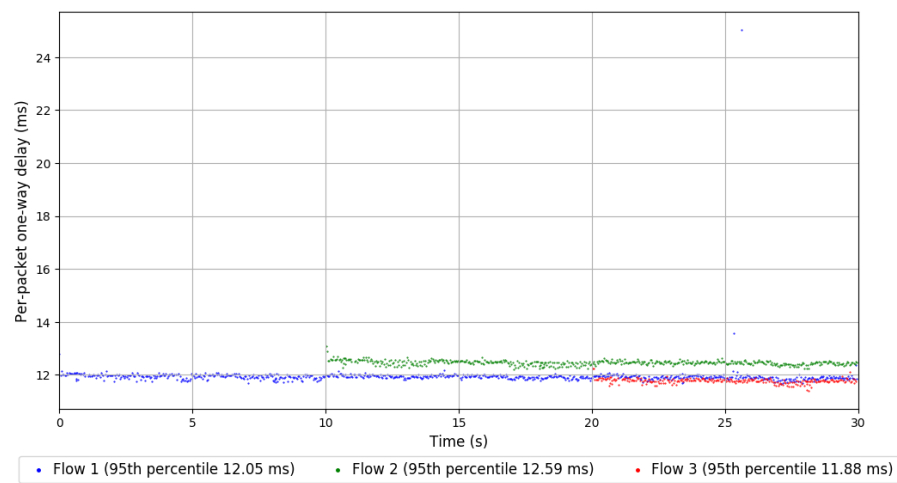
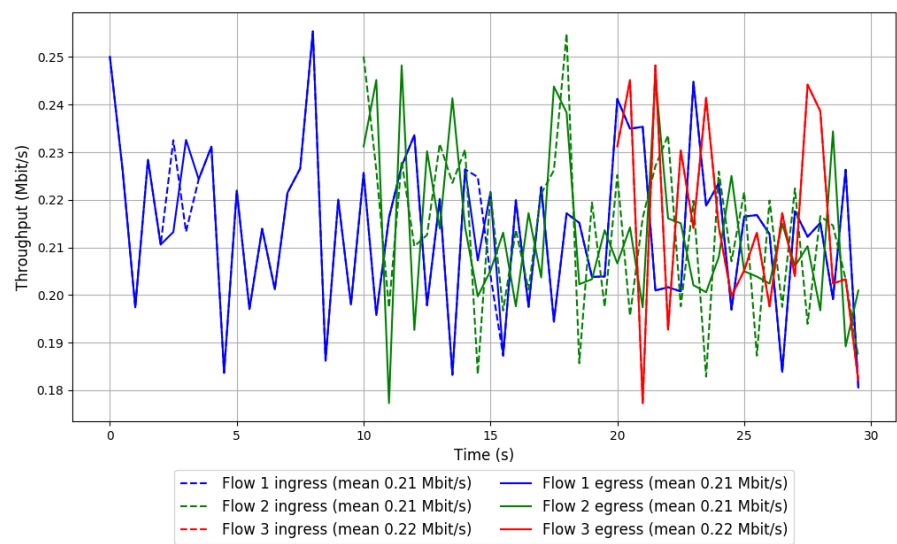


Run 7: Statistics of SReAM

Start at: 2018-04-11 00:11:07
End at: 2018-04-11 00:11:37
Local clock offset: -0.401 ms
Remote clock offset: 0.999 ms

Below is generated by plot.py at 2018-04-11 02:05:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 12.541 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 12.046 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 12.592 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 11.879 ms
Loss rate: 0.00%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SReAM

Start at: 2018-04-11 00:32:38

End at: 2018-04-11 00:33:08

Local clock offset: 0.224 ms

Remote clock offset: 2.904 ms

Below is generated by plot.py at 2018-04-11 02:05:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 13.164 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 12.525 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 12.520 ms

Loss rate: 0.00%

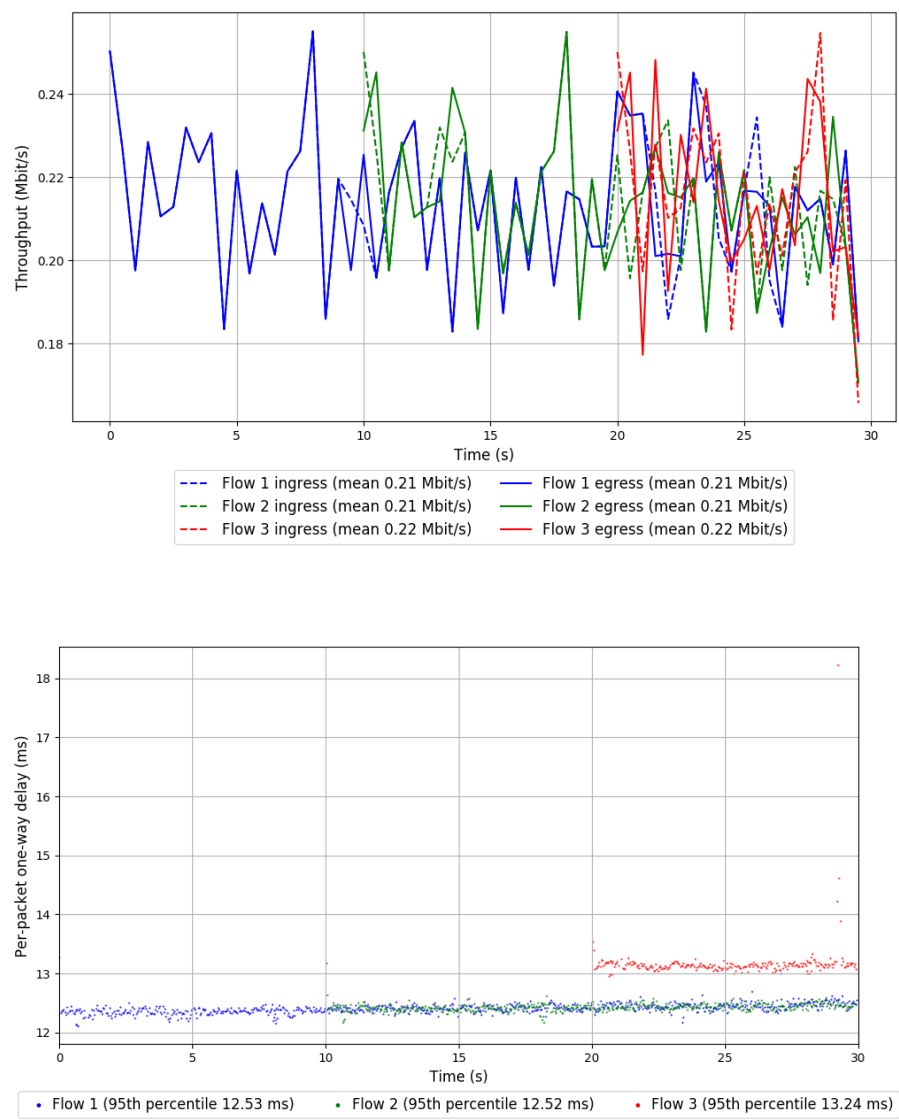
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 13.237 ms

Loss rate: 0.00%

Run 8: Report of SCRaM — Data Link



Run 9: Statistics of SReAM

Start at: 2018-04-11 00:54:20

End at: 2018-04-11 00:54:50

Local clock offset: 1.966 ms

Remote clock offset: 2.805 ms

Below is generated by plot.py at 2018-04-11 02:05:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 12.977 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 12.363 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 13.005 ms

Loss rate: 0.00%

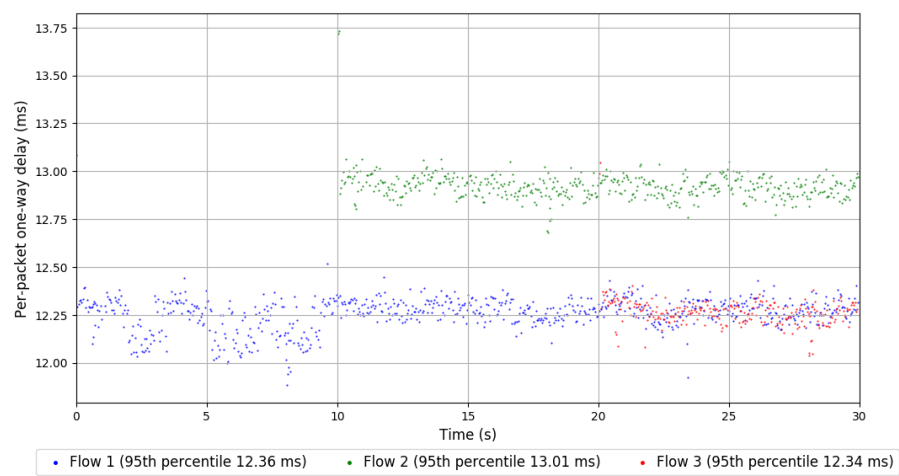
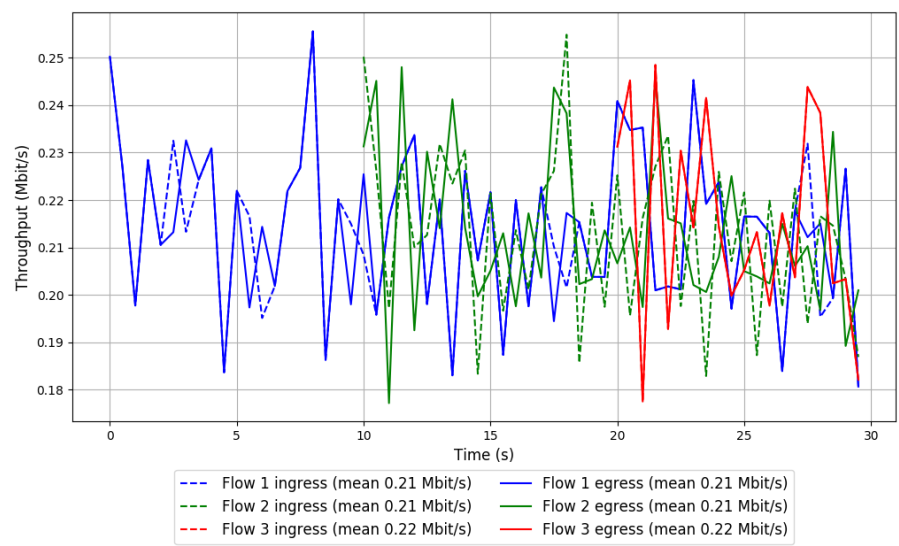
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 12.343 ms

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-04-11 01:15:37

End at: 2018-04-11 01:16:07

Local clock offset: 0.826 ms

Remote clock offset: 9.694 ms

Below is generated by plot.py at 2018-04-11 02:05:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 11.861 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 11.813 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 11.909 ms

Loss rate: 0.00%

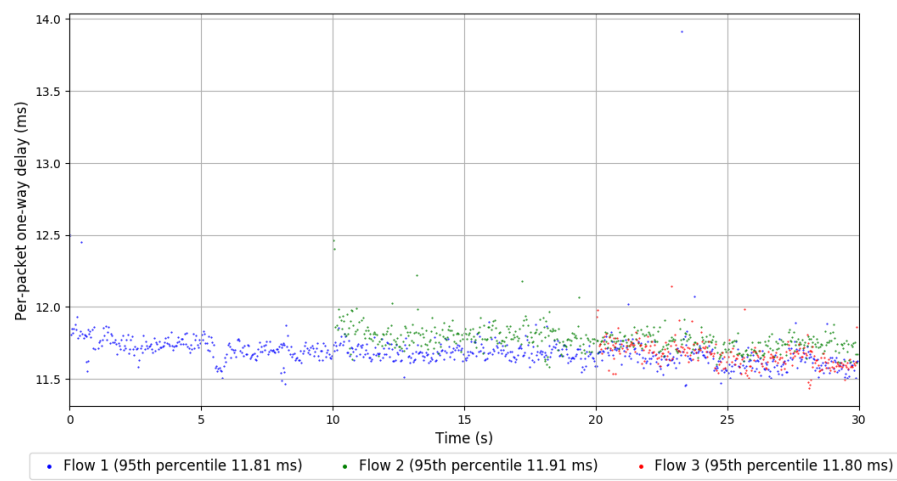
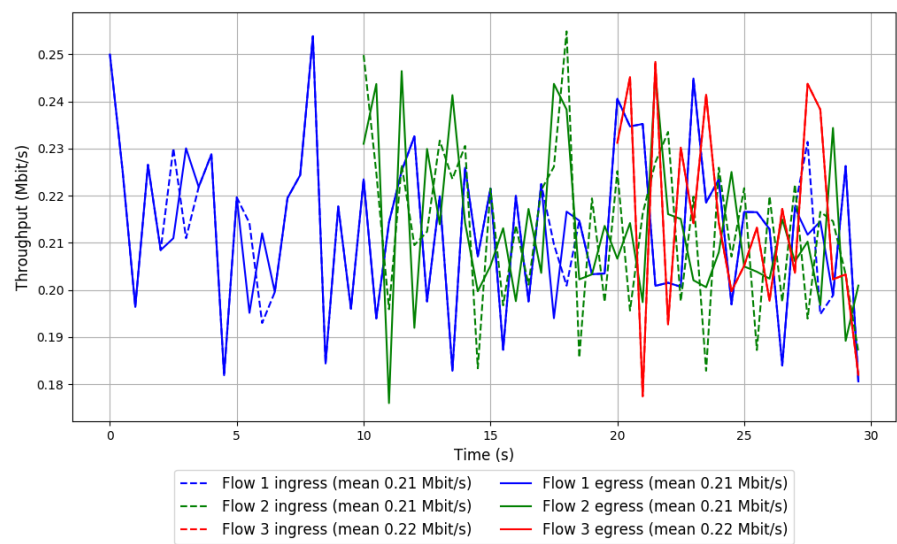
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 11.797 ms

Loss rate: 0.00%

Run 10: Report of SCReAM — Data Link

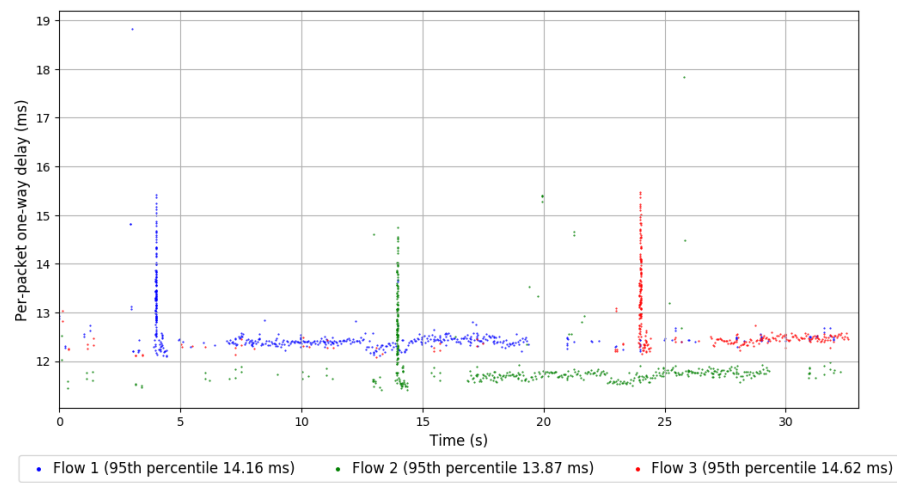
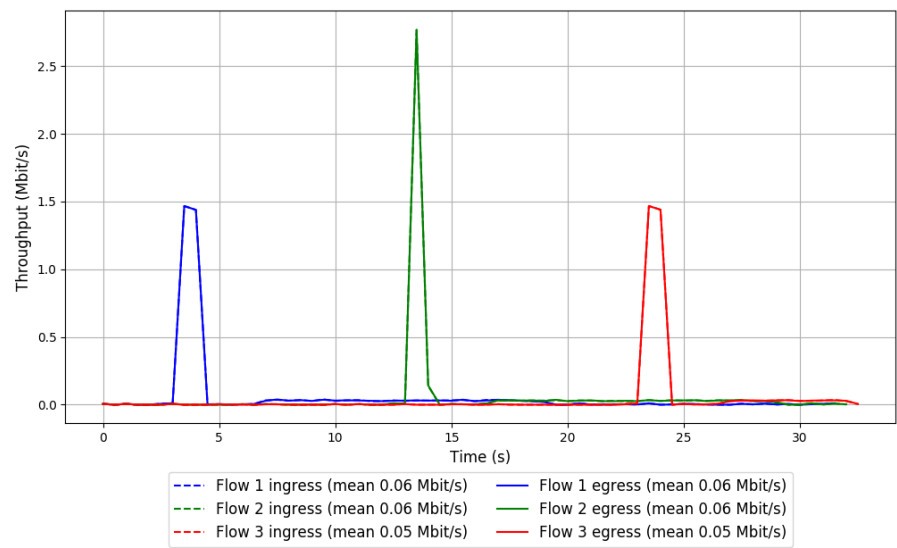


Run 1: Statistics of WebRTC media

Start at: 2018-04-10 21:47:32
End at: 2018-04-10 21:48:02
Local clock offset: 0.942 ms
Remote clock offset: -0.195 ms

Below is generated by plot.py at 2018-04-11 02:05:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 14.277 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 14.162 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 13.865 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 14.625 ms
Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link

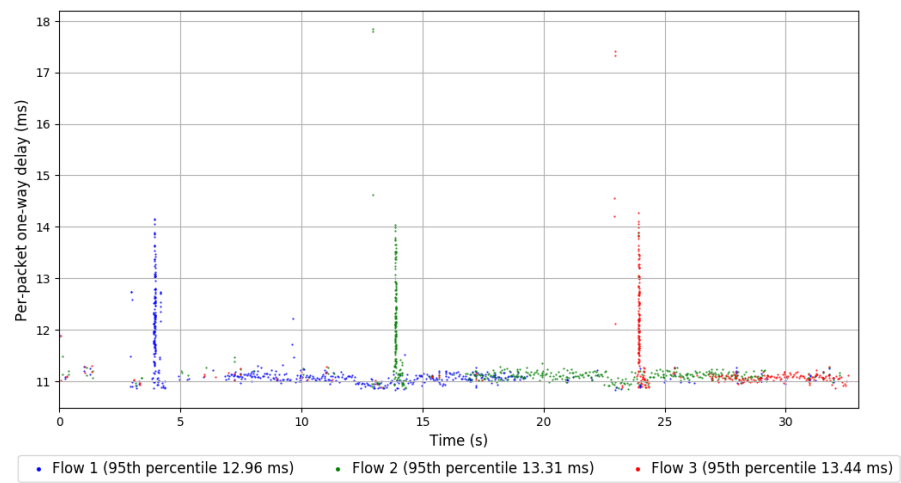
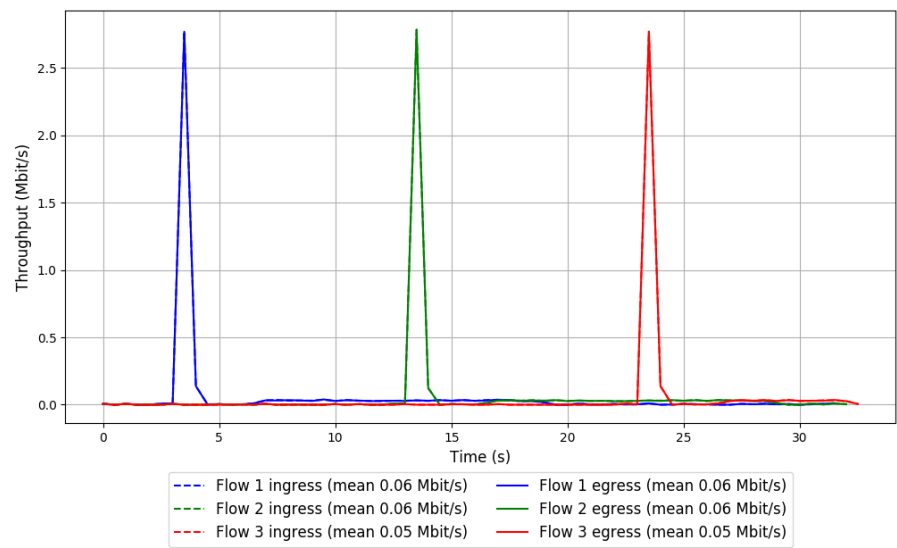


Run 2: Statistics of WebRTC media

Start at: 2018-04-10 22:09:45
End at: 2018-04-10 22:10:15
Local clock offset: 1.132 ms
Remote clock offset: -3.088 ms

Below is generated by plot.py at 2018-04-11 02:05:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 13.202 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 12.959 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 13.310 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 13.440 ms
Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-04-10 22:31:31

End at: 2018-04-10 22:32:01

Local clock offset: -0.205 ms

Remote clock offset: 5.025 ms

Below is generated by plot.py at 2018-04-11 02:05:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.17 Mbit/s

95th percentile per-packet one-way delay: 15.264 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 14.885 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 15.649 ms

Loss rate: 0.00%

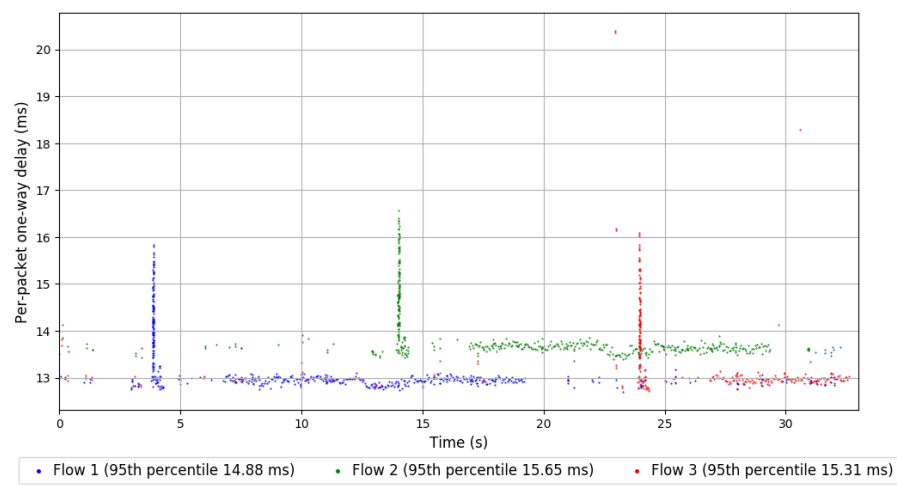
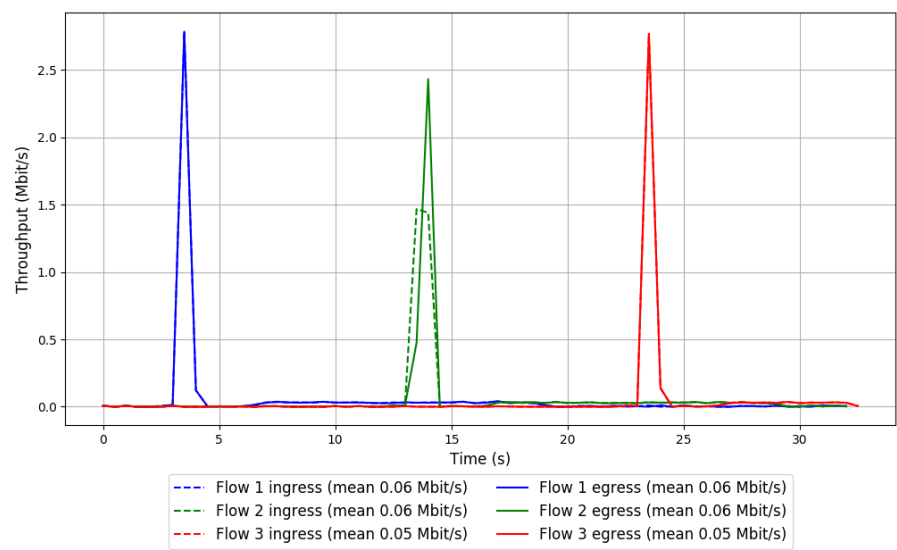
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 15.312 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link

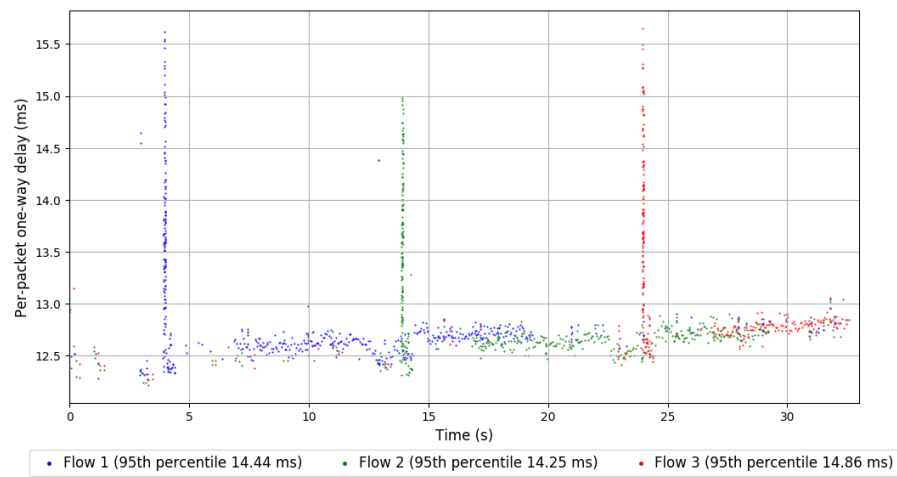
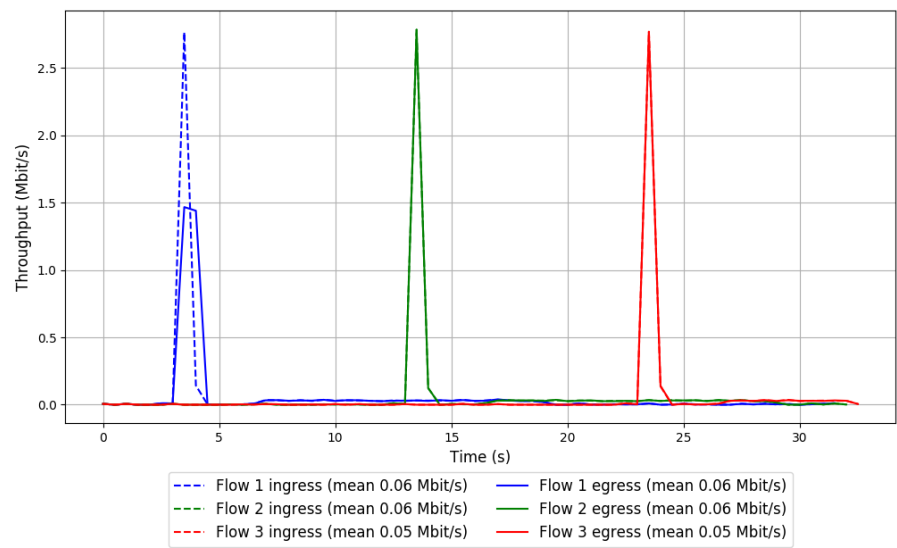


Run 4: Statistics of WebRTC media

Start at: 2018-04-10 22:53:03
End at: 2018-04-10 22:53:33
Local clock offset: 0.466 ms
Remote clock offset: -0.132 ms

Below is generated by plot.py at 2018-04-11 02:05:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 14.541 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 14.436 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 14.249 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 14.855 ms
Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link

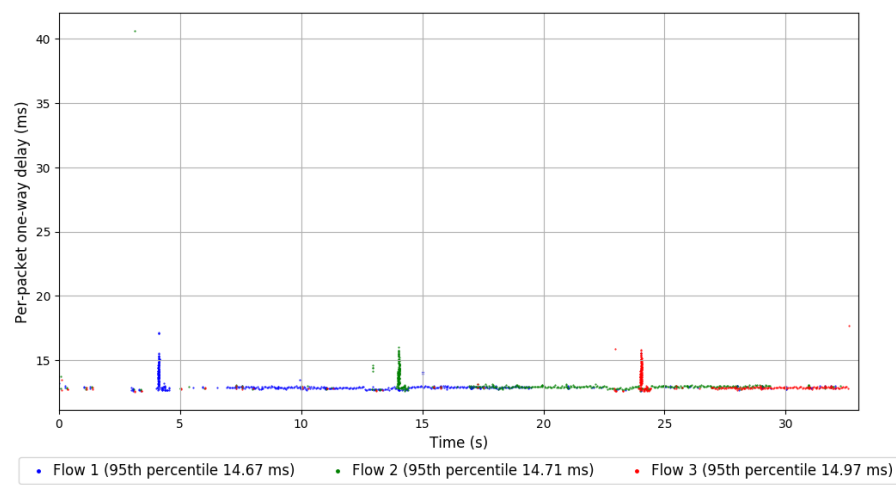
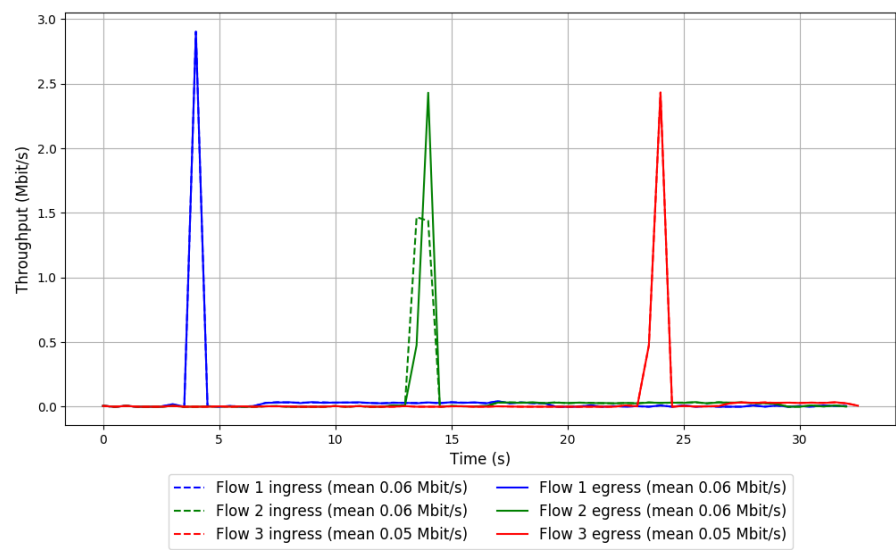


Run 5: Statistics of WebRTC media

Start at: 2018-04-10 23:14:12
End at: 2018-04-10 23:14:42
Local clock offset: 1.175 ms
Remote clock offset: -6.363 ms

Below is generated by plot.py at 2018-04-11 02:05:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 14.805 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 14.673 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 14.714 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 14.969 ms
Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

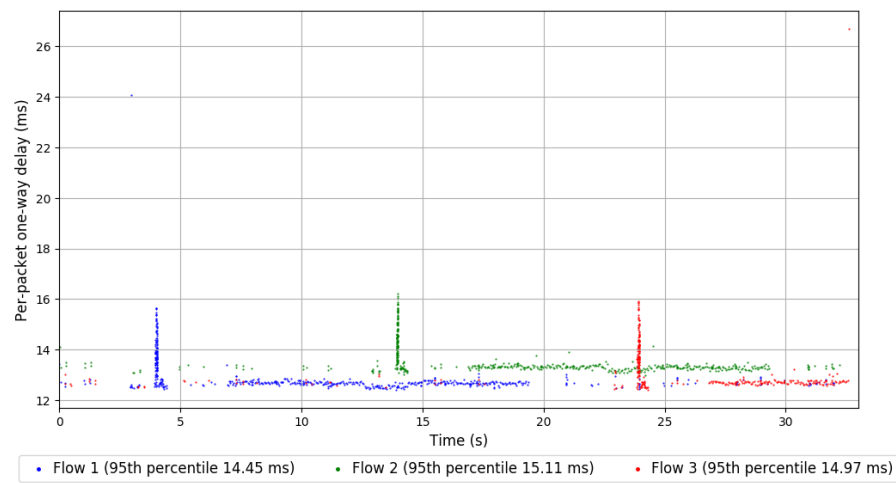
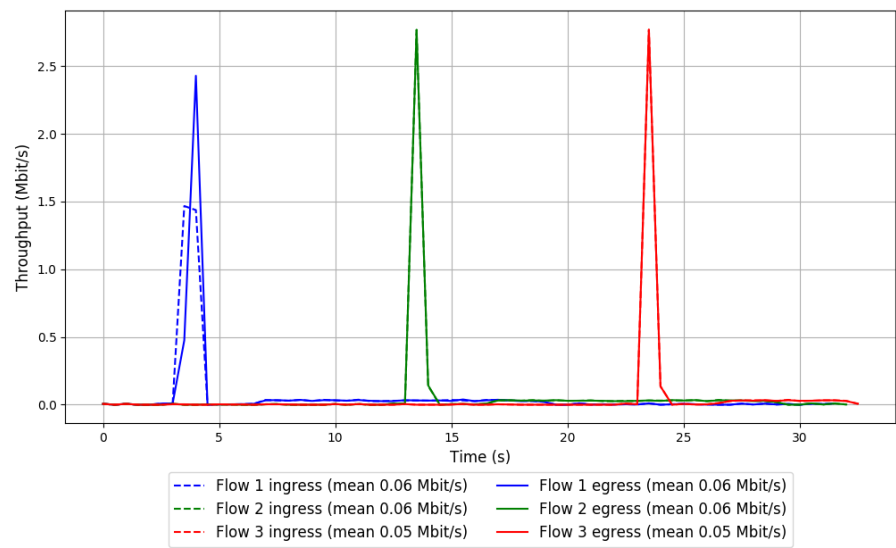


Run 6: Statistics of WebRTC media

Start at: 2018-04-10 23:35:30
End at: 2018-04-10 23:36:00
Local clock offset: -1.116 ms
Remote clock offset: -7.716 ms

Below is generated by plot.py at 2018-04-11 02:05:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 14.908 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 14.446 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 15.105 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 14.972 ms
Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-04-10 23:56:38

End at: 2018-04-10 23:57:08

Local clock offset: -0.434 ms

Remote clock offset: -6.49 ms

Below is generated by plot.py at 2018-04-11 02:05:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.17 Mbit/s

95th percentile per-packet one-way delay: 14.293 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 13.840 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 14.472 ms

Loss rate: 0.00%

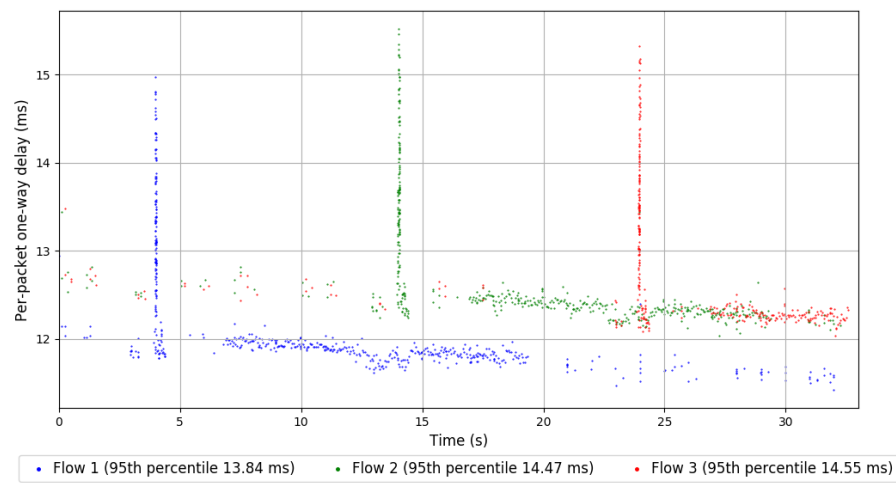
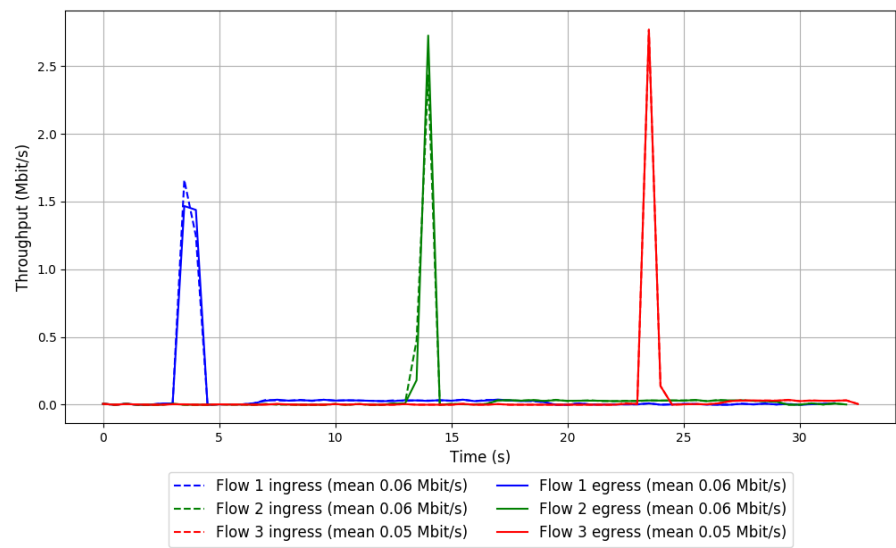
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 14.548 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-04-11 00:18:20

End at: 2018-04-11 00:18:50

Local clock offset: -1.277 ms

Remote clock offset: 2.316 ms

Below is generated by plot.py at 2018-04-11 02:05:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.17 Mbit/s

95th percentile per-packet one-way delay: 14.482 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 14.159 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 14.312 ms

Loss rate: 0.00%

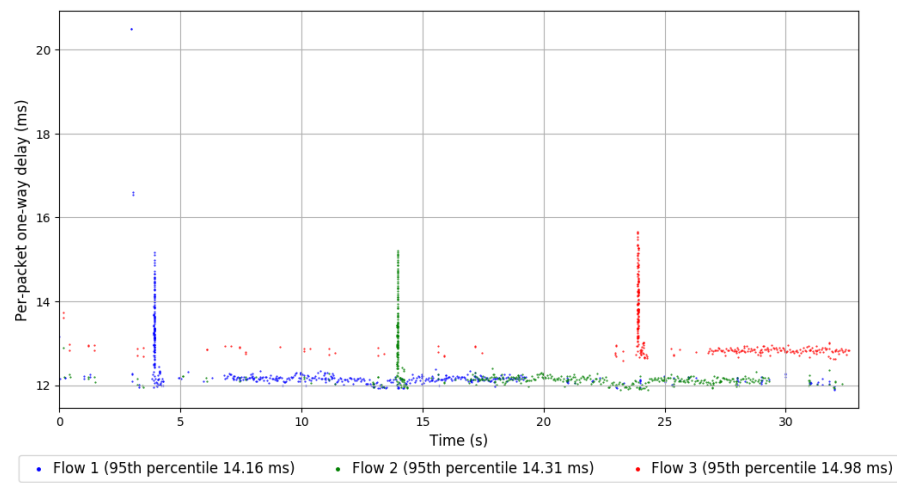
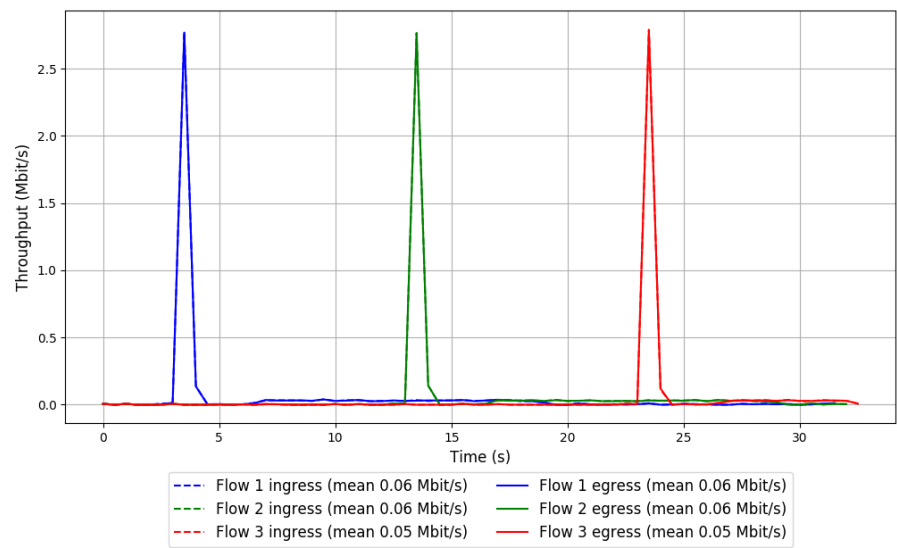
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 14.978 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-04-11 00:39:44

End at: 2018-04-11 00:40:14

Local clock offset: 1.36 ms

Remote clock offset: 2.779 ms

Below is generated by plot.py at 2018-04-11 02:05:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.17 Mbit/s

95th percentile per-packet one-way delay: 14.598 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 14.346 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 14.246 ms

Loss rate: 0.00%

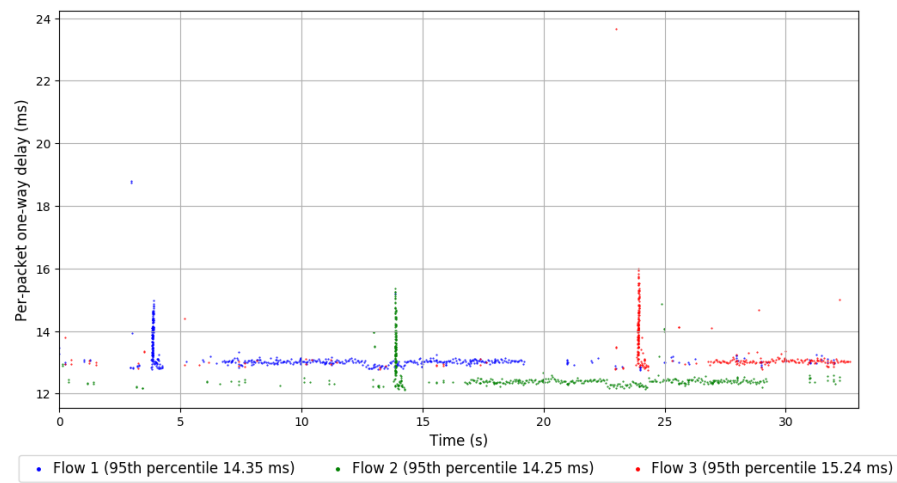
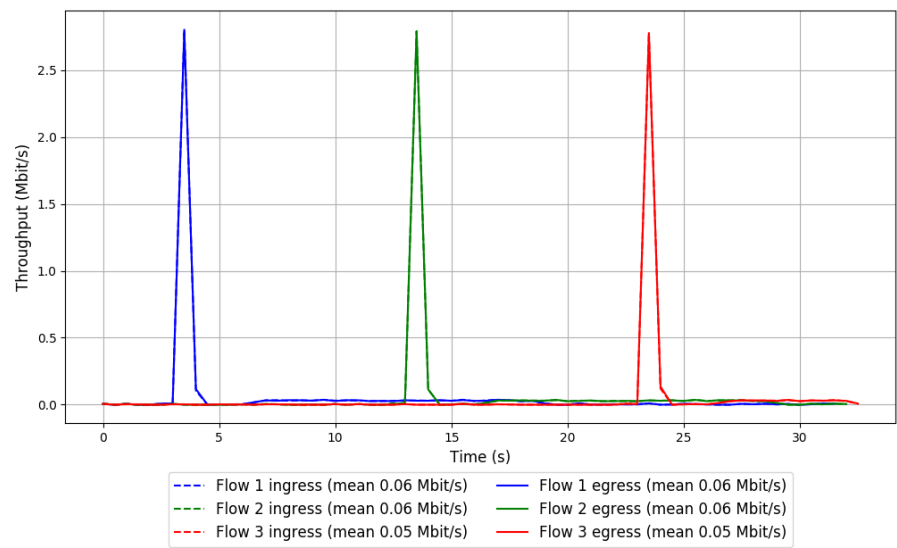
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 15.238 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-04-11 01:01:21

End at: 2018-04-11 01:01:51

Local clock offset: 1.503 ms

Remote clock offset: 3.392 ms

Below is generated by plot.py at 2018-04-11 02:05:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.17 Mbit/s

95th percentile per-packet one-way delay: 14.588 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 14.355 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 14.980 ms

Loss rate: 0.00%

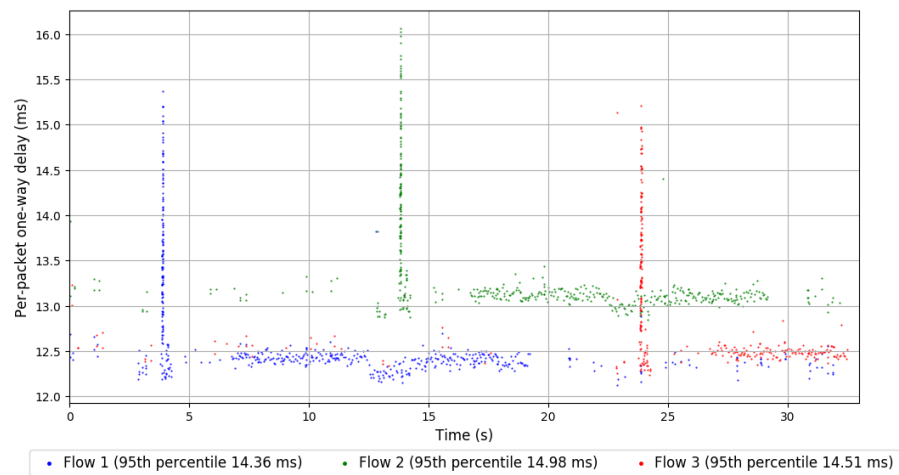
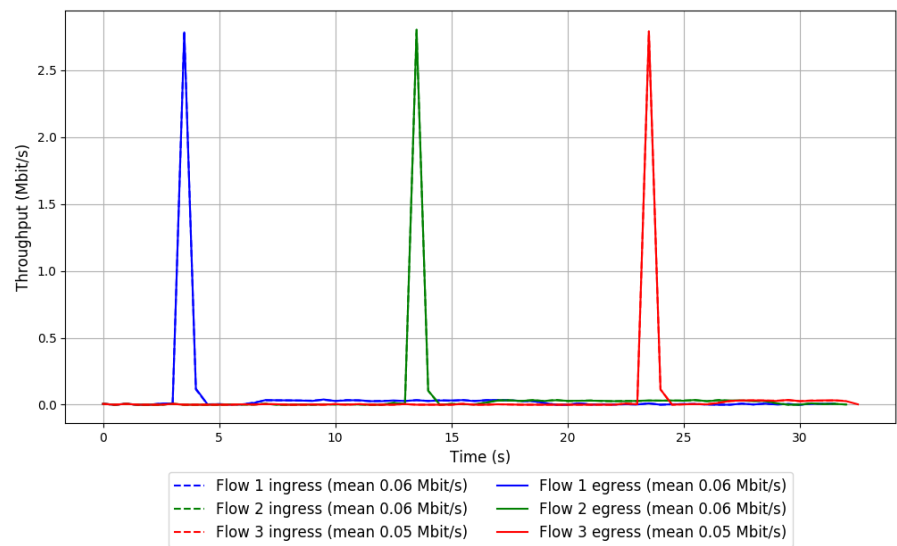
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 14.506 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

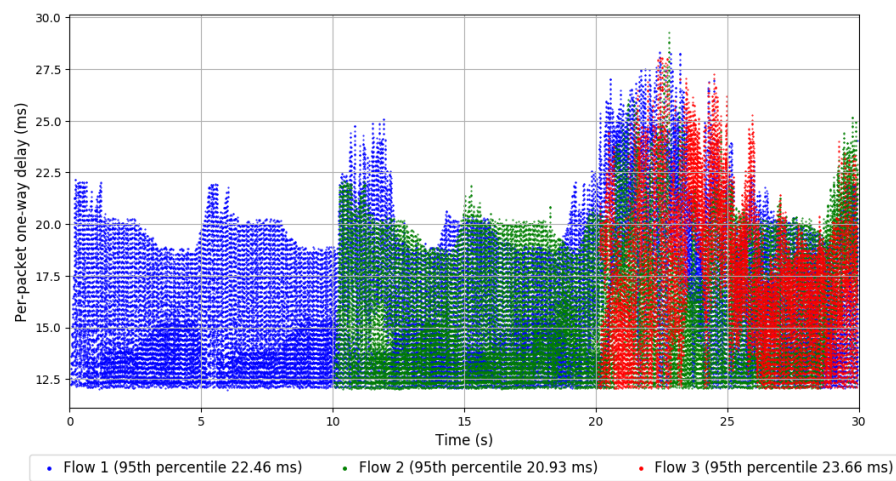
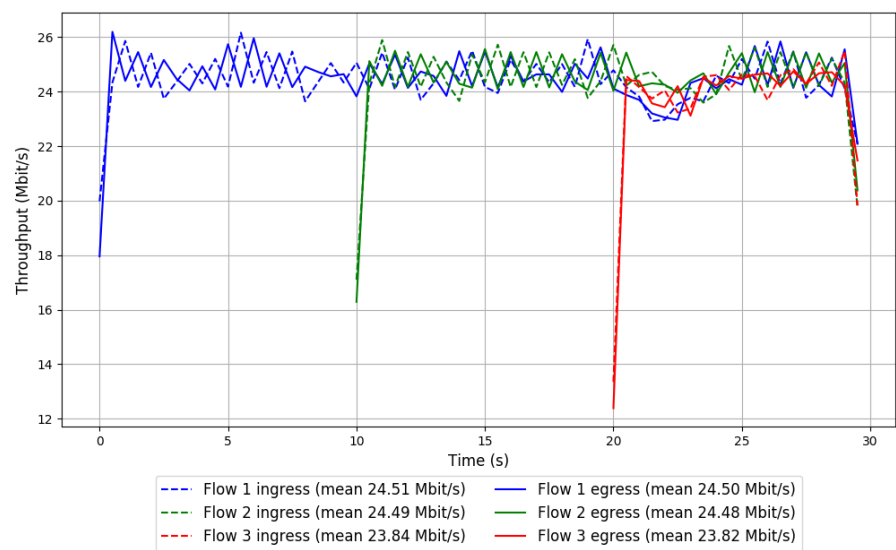


Run 1: Statistics of Sprout

Start at: 2018-04-10 22:02:51
End at: 2018-04-10 22:03:21
Local clock offset: 0.41 ms
Remote clock offset: -2.794 ms

Below is generated by plot.py at 2018-04-11 02:05:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 48.64 Mbit/s
95th percentile per-packet one-way delay: 22.367 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 24.50 Mbit/s
95th percentile per-packet one-way delay: 22.460 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 24.48 Mbit/s
95th percentile per-packet one-way delay: 20.932 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 23.82 Mbit/s
95th percentile per-packet one-way delay: 23.659 ms
Loss rate: 0.00%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-04-10 22:25:31

End at: 2018-04-10 22:26:01

Local clock offset: 0.872 ms

Remote clock offset: 2.783 ms

Below is generated by plot.py at 2018-04-11 02:05:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 48.54 Mbit/s

95th percentile per-packet one-way delay: 20.341 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 24.39 Mbit/s

95th percentile per-packet one-way delay: 19.680 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 24.41 Mbit/s

95th percentile per-packet one-way delay: 19.822 ms

Loss rate: 0.00%

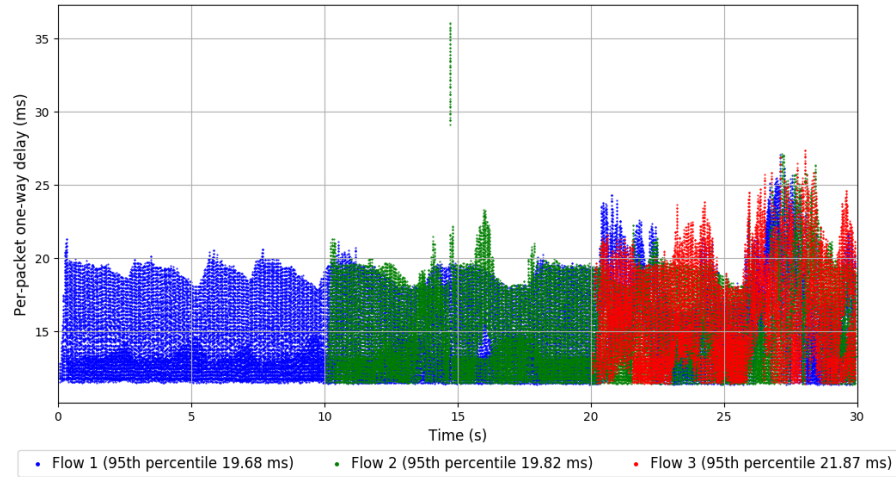
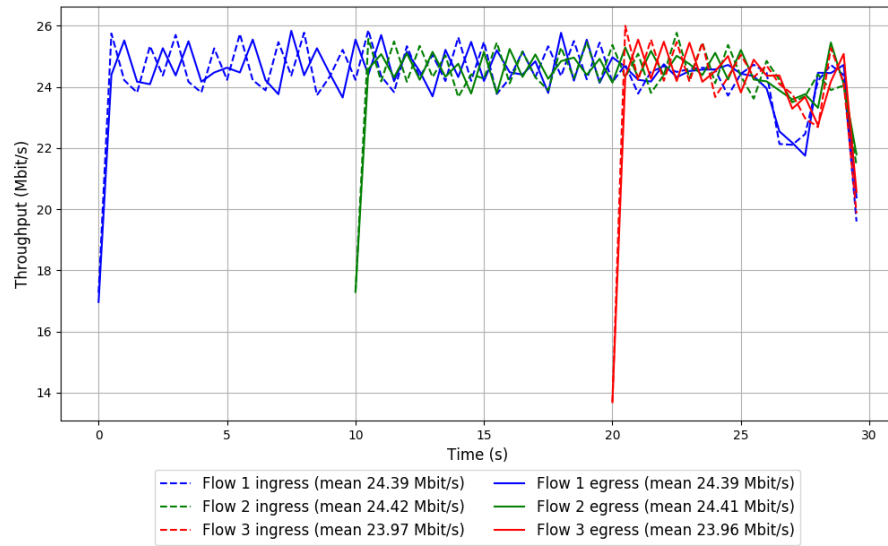
-- Flow 3:

Average throughput: 23.96 Mbit/s

95th percentile per-packet one-way delay: 21.872 ms

Loss rate: 0.00%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-04-10 22:47:08

End at: 2018-04-10 22:47:38

Local clock offset: 0.943 ms

Remote clock offset: 5.098 ms

Below is generated by plot.py at 2018-04-11 02:05:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 48.71 Mbit/s

95th percentile per-packet one-way delay: 21.659 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 24.42 Mbit/s

95th percentile per-packet one-way delay: 22.200 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 24.45 Mbit/s

95th percentile per-packet one-way delay: 20.520 ms

Loss rate: 0.00%

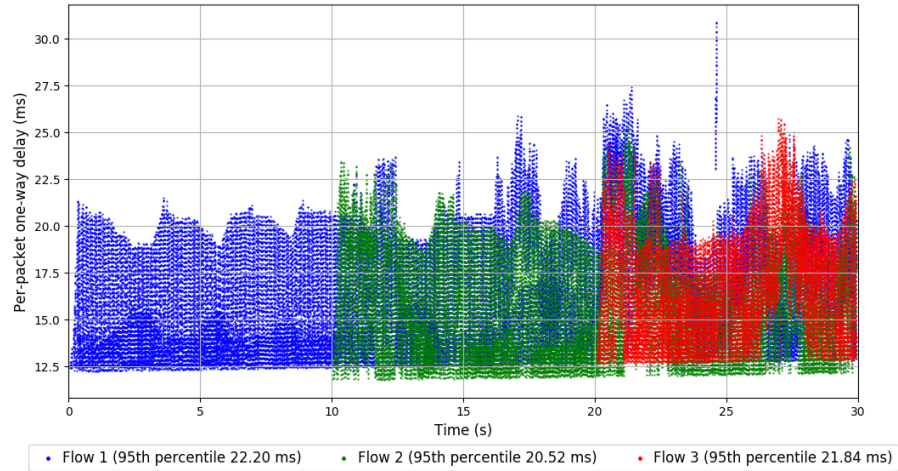
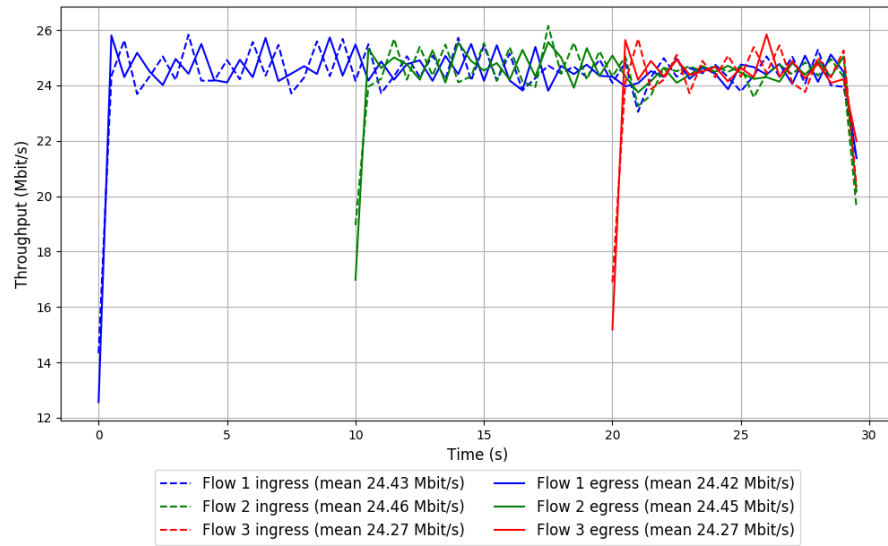
-- Flow 3:

Average throughput: 24.27 Mbit/s

95th percentile per-packet one-way delay: 21.840 ms

Loss rate: 0.00%

Run 3: Report of Sprout — Data Link

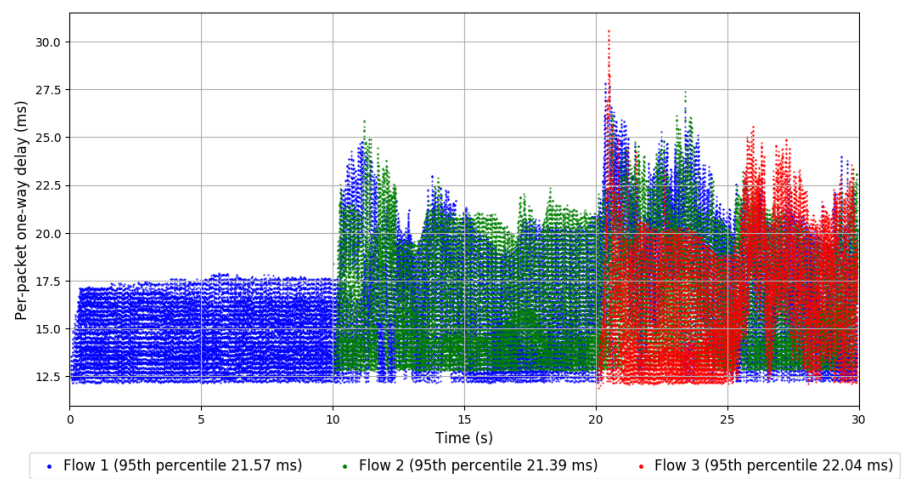
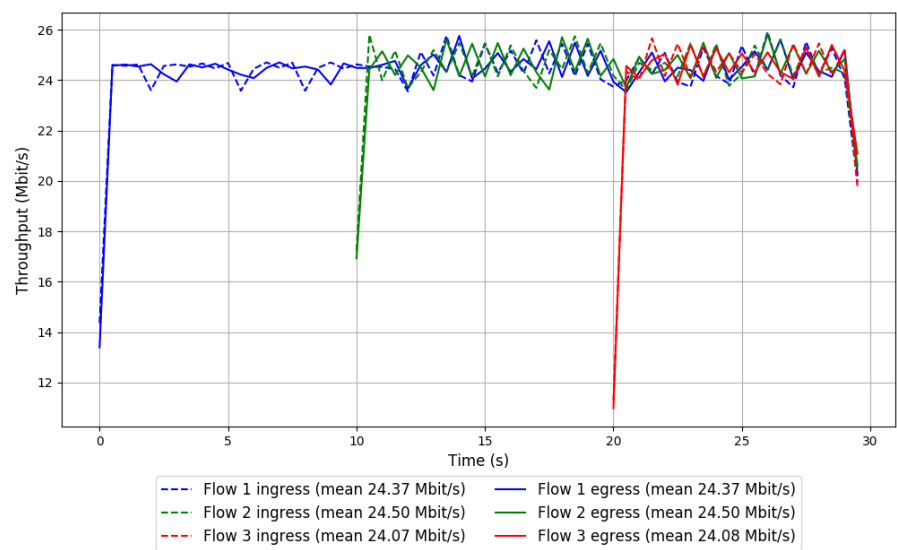


Run 4: Statistics of Sprout

Start at: 2018-04-10 23:08:18
End at: 2018-04-10 23:08:48
Local clock offset: 1.281 ms
Remote clock offset: -5.295 ms

```
# Below is generated by plot.py at 2018-04-11 02:05:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 48.60 Mbit/s
95th percentile per-packet one-way delay: 21.608 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 24.37 Mbit/s
95th percentile per-packet one-way delay: 21.571 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 24.50 Mbit/s
95th percentile per-packet one-way delay: 21.390 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 24.08 Mbit/s
95th percentile per-packet one-way delay: 22.043 ms
Loss rate: 0.00%
```

Run 4: Report of Sprout — Data Link

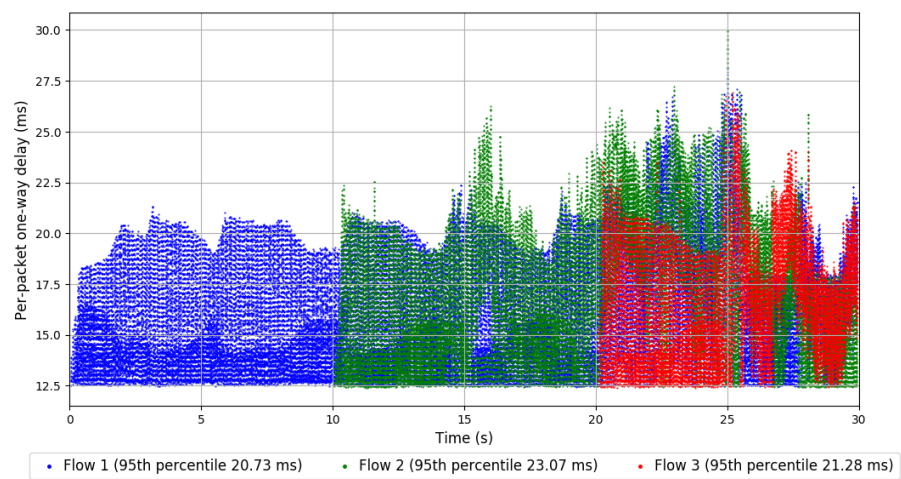
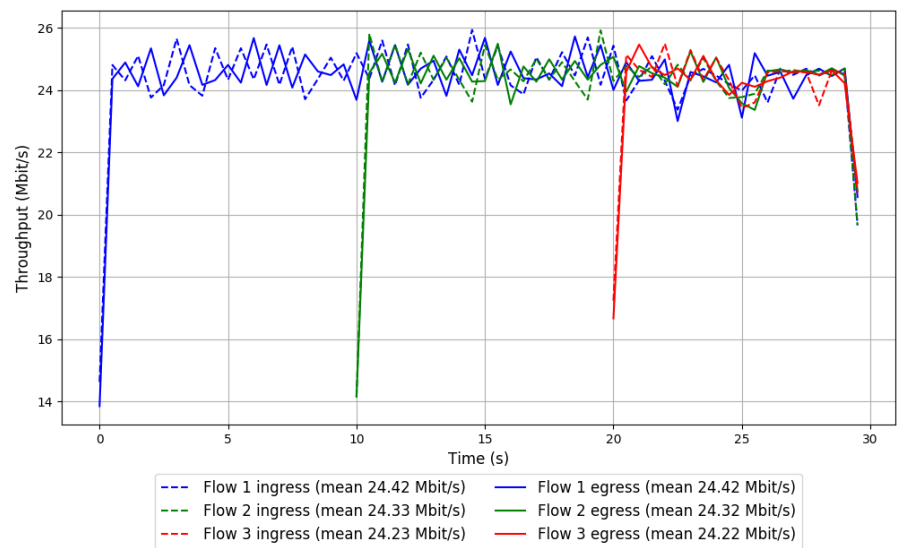


Run 5: Statistics of Sprout

Start at: 2018-04-10 23:29:31
End at: 2018-04-10 23:30:01
Local clock offset: -0.272 ms
Remote clock offset: -7.09 ms

Below is generated by plot.py at 2018-04-11 02:05:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 48.59 Mbit/s
95th percentile per-packet one-way delay: 21.954 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 24.42 Mbit/s
95th percentile per-packet one-way delay: 20.727 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 24.32 Mbit/s
95th percentile per-packet one-way delay: 23.075 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 24.22 Mbit/s
95th percentile per-packet one-way delay: 21.280 ms
Loss rate: 0.00%

Run 5: Report of Sprout — Data Link

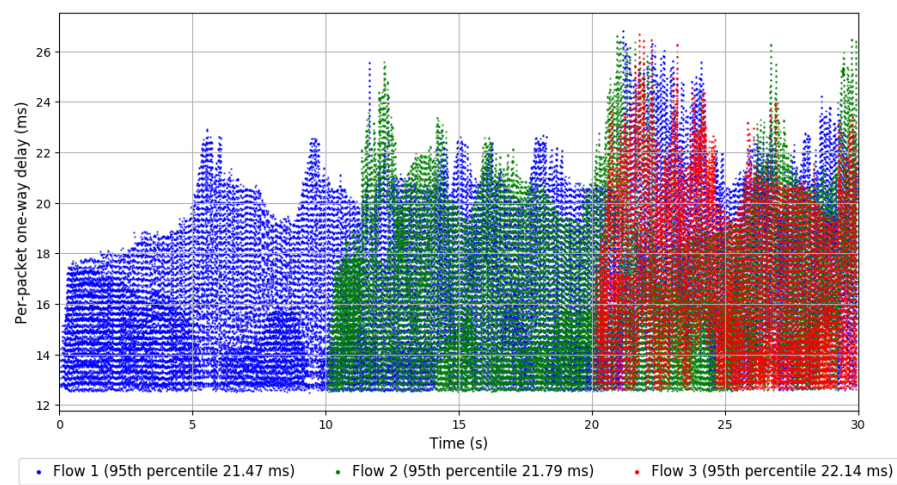
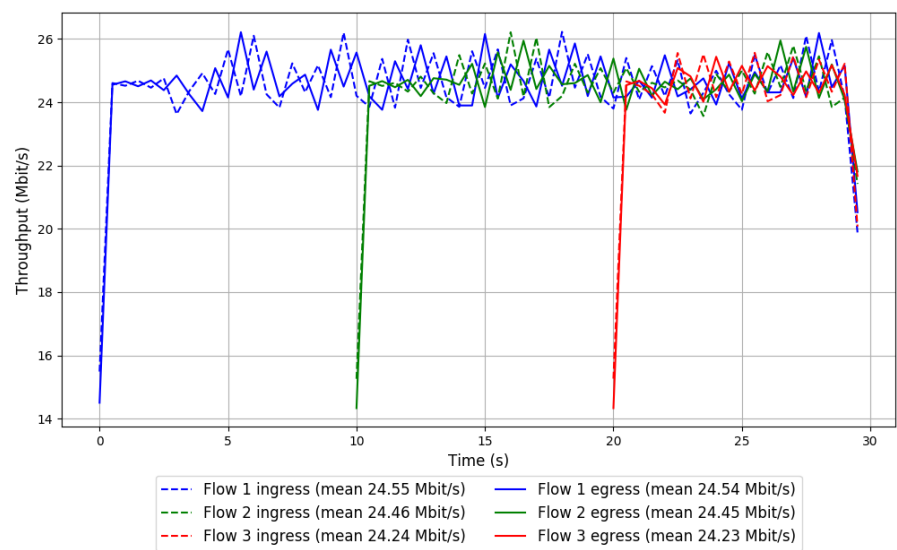


Run 6: Statistics of Sprout

Start at: 2018-04-10 23:50:45
End at: 2018-04-10 23:51:15
Local clock offset: -1.647 ms
Remote clock offset: -8.869 ms

Below is generated by plot.py at 2018-04-11 02:05:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 48.83 Mbit/s
95th percentile per-packet one-way delay: 21.709 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 24.54 Mbit/s
95th percentile per-packet one-way delay: 21.472 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 24.45 Mbit/s
95th percentile per-packet one-way delay: 21.792 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 24.23 Mbit/s
95th percentile per-packet one-way delay: 22.135 ms
Loss rate: 0.00%

Run 6: Report of Sprout — Data Link

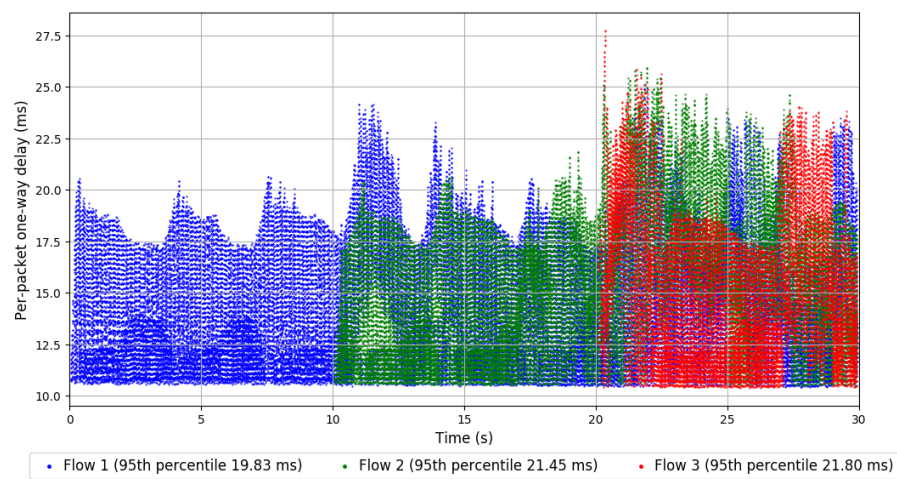
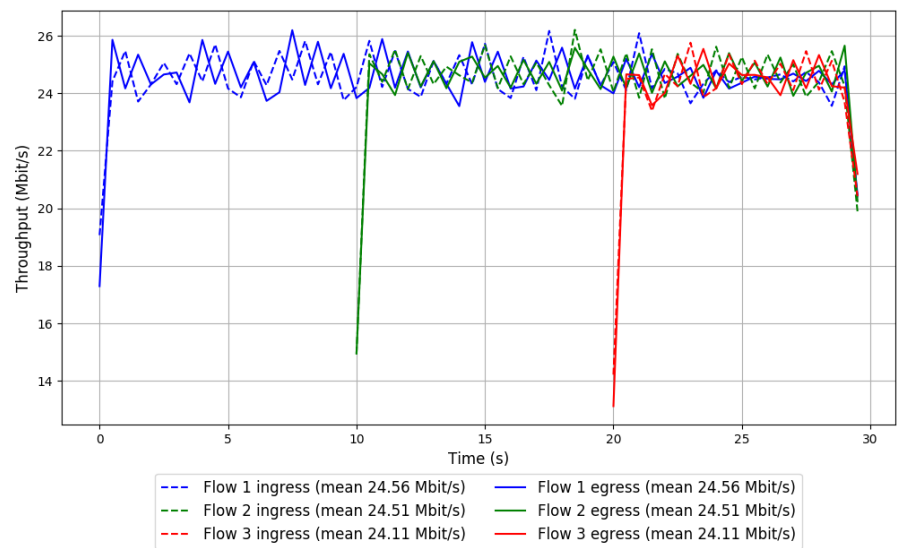


Run 7: Statistics of Sprout

Start at: 2018-04-11 00:12:12
End at: 2018-04-11 00:12:42
Local clock offset: -0.369 ms
Remote clock offset: 0.104 ms

Below is generated by plot.py at 2018-04-11 02:06:03
Datalink statistics
-- Total of 3 flows:
Average throughput: 48.82 Mbit/s
95th percentile per-packet one-way delay: 20.860 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 24.56 Mbit/s
95th percentile per-packet one-way delay: 19.828 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 24.51 Mbit/s
95th percentile per-packet one-way delay: 21.447 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 24.11 Mbit/s
95th percentile per-packet one-way delay: 21.800 ms
Loss rate: 0.00%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-04-11 00:33:44

End at: 2018-04-11 00:34:14

Local clock offset: 1.167 ms

Remote clock offset: 2.899 ms

Below is generated by plot.py at 2018-04-11 02:06:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 48.65 Mbit/s

95th percentile per-packet one-way delay: 22.130 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 24.51 Mbit/s

95th percentile per-packet one-way delay: 22.309 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 24.31 Mbit/s

95th percentile per-packet one-way delay: 22.148 ms

Loss rate: 0.09%

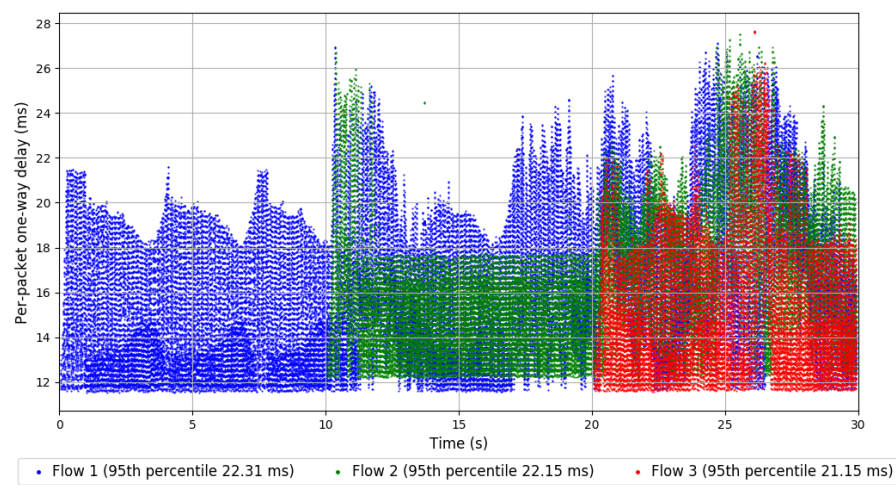
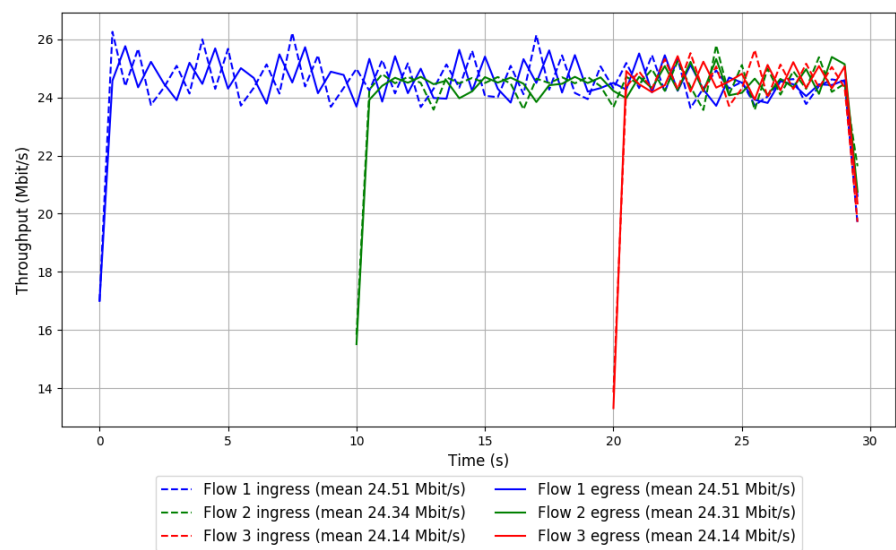
-- Flow 3:

Average throughput: 24.14 Mbit/s

95th percentile per-packet one-way delay: 21.153 ms

Loss rate: 0.00%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-04-11 00:55:25

End at: 2018-04-11 00:55:55

Local clock offset: 2.068 ms

Remote clock offset: 2.829 ms

Below is generated by plot.py at 2018-04-11 02:06:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 48.89 Mbit/s

95th percentile per-packet one-way delay: 22.413 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 24.56 Mbit/s

95th percentile per-packet one-way delay: 21.634 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 24.54 Mbit/s

95th percentile per-packet one-way delay: 22.990 ms

Loss rate: 0.00%

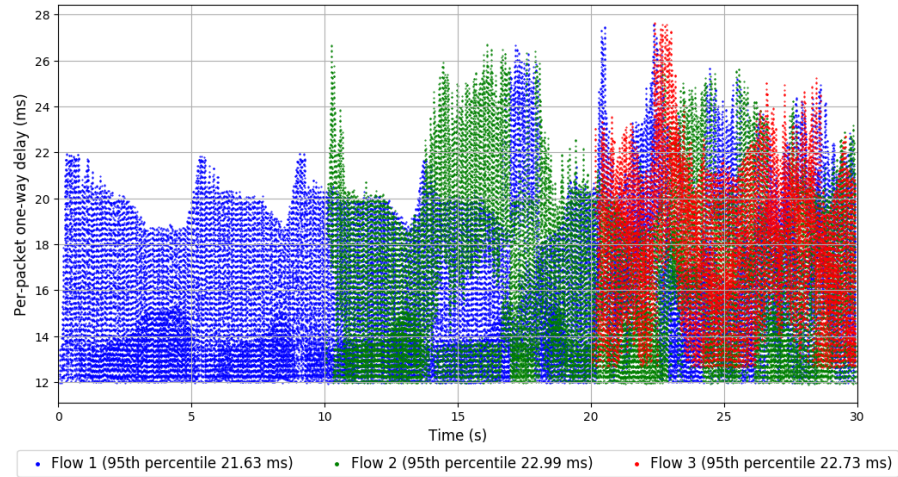
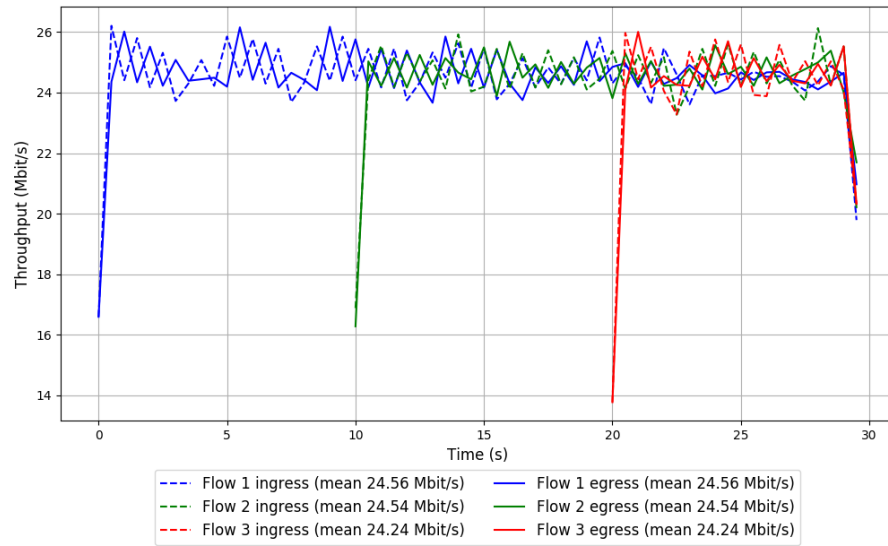
-- Flow 3:

Average throughput: 24.24 Mbit/s

95th percentile per-packet one-way delay: 22.735 ms

Loss rate: 0.00%

Run 9: Report of Sprout — Data Link

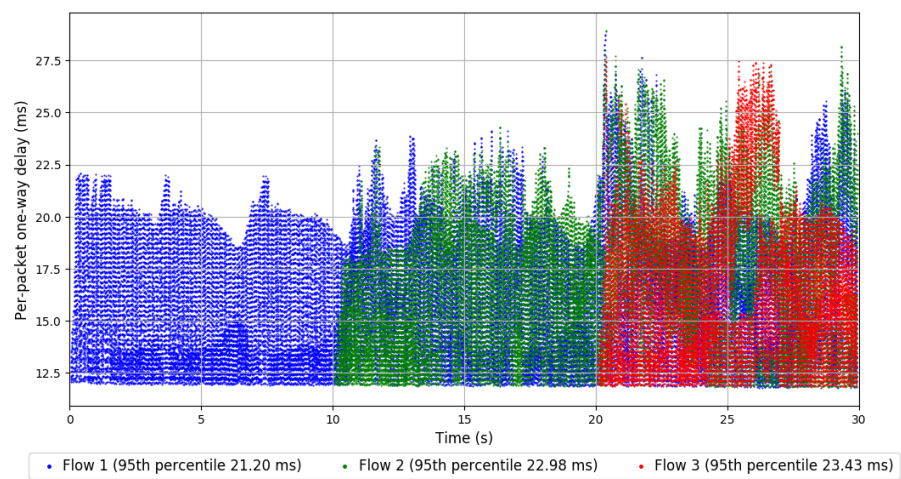
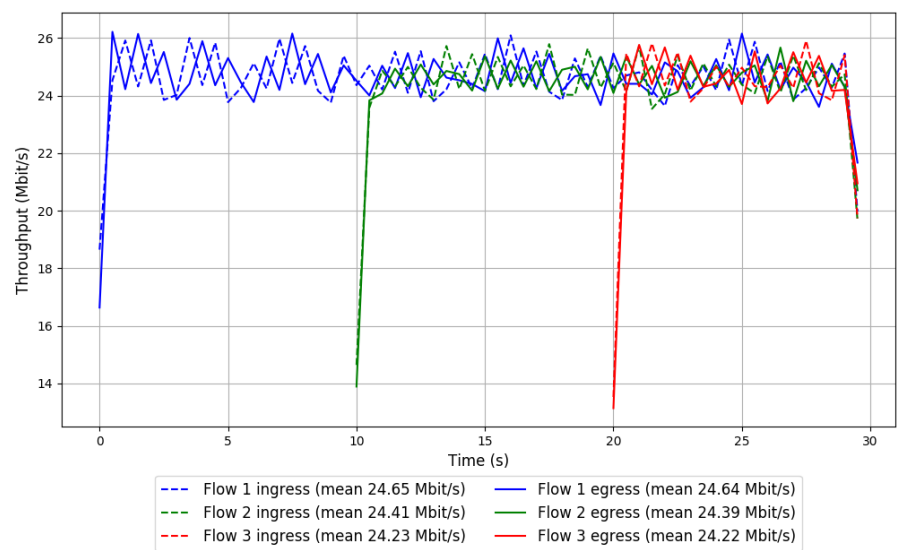


Run 10: Statistics of Sprout

Start at: 2018-04-11 01:16:42
End at: 2018-04-11 01:17:12
Local clock offset: 0.676 ms
Remote clock offset: 10.209 ms

Below is generated by plot.py at 2018-04-11 02:06:04
Datalink statistics
-- Total of 3 flows:
Average throughput: 48.86 Mbit/s
95th percentile per-packet one-way delay: 22.275 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 24.64 Mbit/s
95th percentile per-packet one-way delay: 21.197 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 24.39 Mbit/s
95th percentile per-packet one-way delay: 22.977 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 24.22 Mbit/s
95th percentile per-packet one-way delay: 23.429 ms
Loss rate: 0.00%

Run 10: Report of Sprout — Data Link

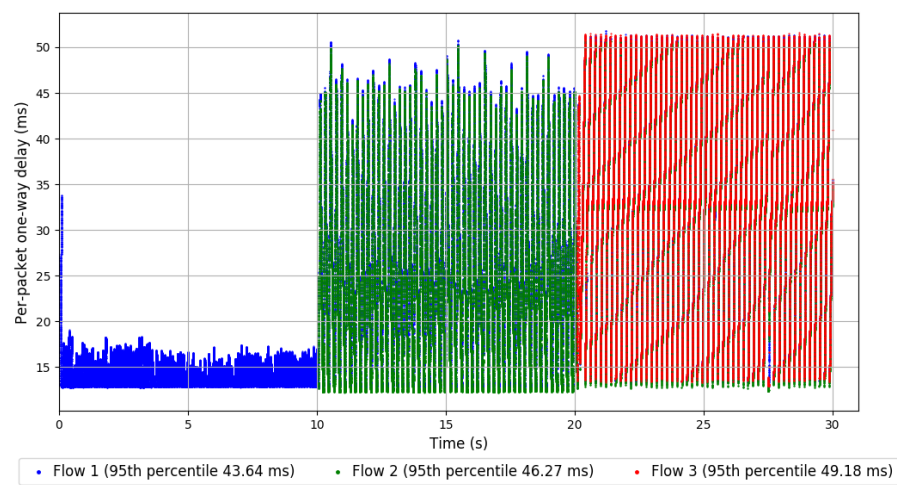
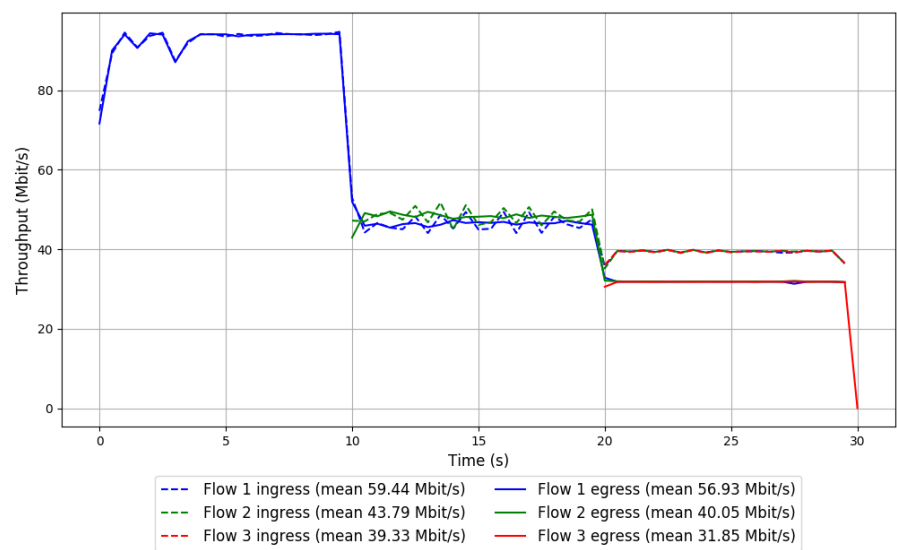


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-04-10 21:59:20
End at: 2018-04-10 21:59:50
Local clock offset: 0.471 ms
Remote clock offset: -2.288 ms

# Below is generated by plot.py at 2018-04-11 02:07:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.18 Mbit/s
95th percentile per-packet one-way delay: 45.710 ms
Loss rate: 7.28%
-- Flow 1:
Average throughput: 56.93 Mbit/s
95th percentile per-packet one-way delay: 43.639 ms
Loss rate: 4.15%
-- Flow 2:
Average throughput: 40.05 Mbit/s
95th percentile per-packet one-way delay: 46.267 ms
Loss rate: 8.45%
-- Flow 3:
Average throughput: 31.85 Mbit/s
95th percentile per-packet one-way delay: 49.182 ms
Loss rate: 18.89%
```

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

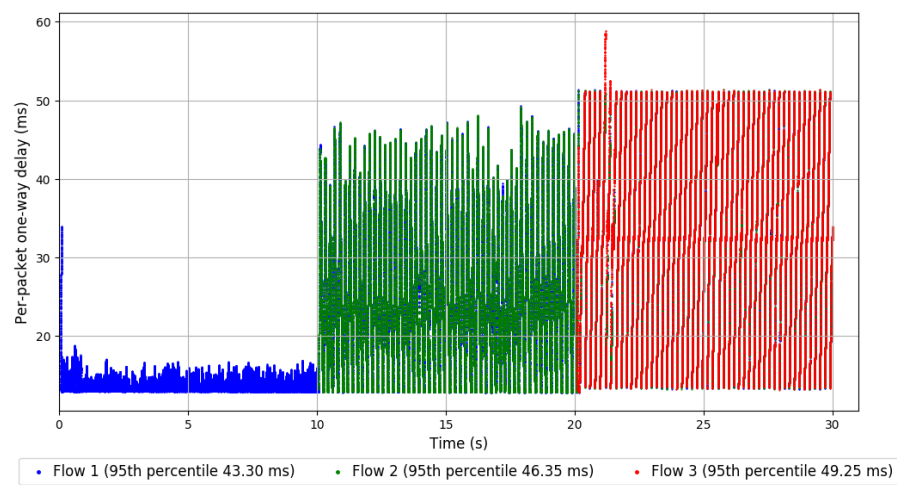
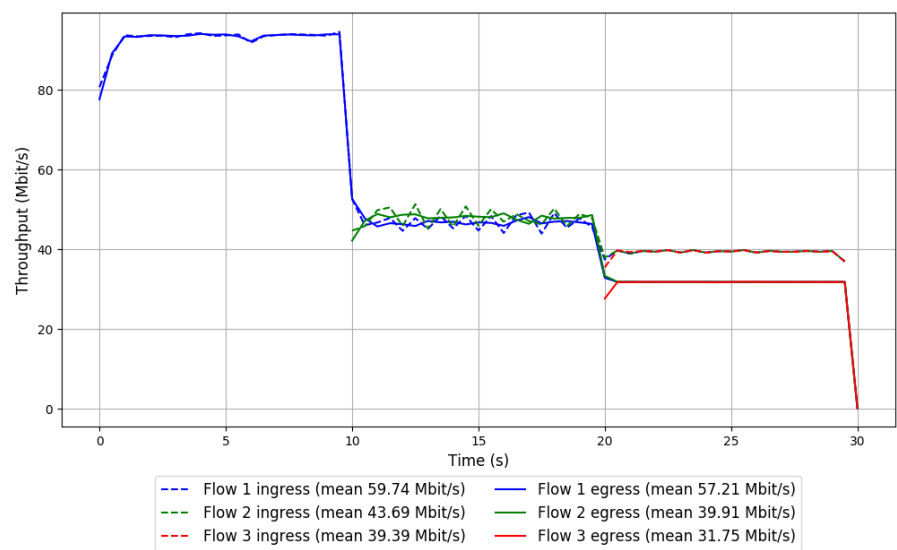


```
Run 2: Statistics of TaoVA-100x

Start at: 2018-04-10 22:22:00
End at: 2018-04-10 22:22:30
Local clock offset: -0.198 ms
Remote clock offset: 2.76 ms

# Below is generated by plot.py at 2018-04-11 02:08:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.34 Mbit/s
95th percentile per-packet one-way delay: 45.597 ms
Loss rate: 7.37%
-- Flow 1:
Average throughput: 57.21 Mbit/s
95th percentile per-packet one-way delay: 43.297 ms
Loss rate: 4.18%
-- Flow 2:
Average throughput: 39.91 Mbit/s
95th percentile per-packet one-way delay: 46.351 ms
Loss rate: 8.57%
-- Flow 3:
Average throughput: 31.75 Mbit/s
95th percentile per-packet one-way delay: 49.248 ms
Loss rate: 19.28%
```

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-04-10 22:43:32

End at: 2018-04-10 22:44:02

Local clock offset: -0.303 ms

Remote clock offset: 5.899 ms

Below is generated by plot.py at 2018-04-11 02:08:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.29 Mbit/s

95th percentile per-packet one-way delay: 45.499 ms

Loss rate: 7.26%

-- Flow 1:

Average throughput: 57.07 Mbit/s

95th percentile per-packet one-way delay: 43.302 ms

Loss rate: 4.14%

-- Flow 2:

Average throughput: 40.05 Mbit/s

95th percentile per-packet one-way delay: 46.291 ms

Loss rate: 8.44%

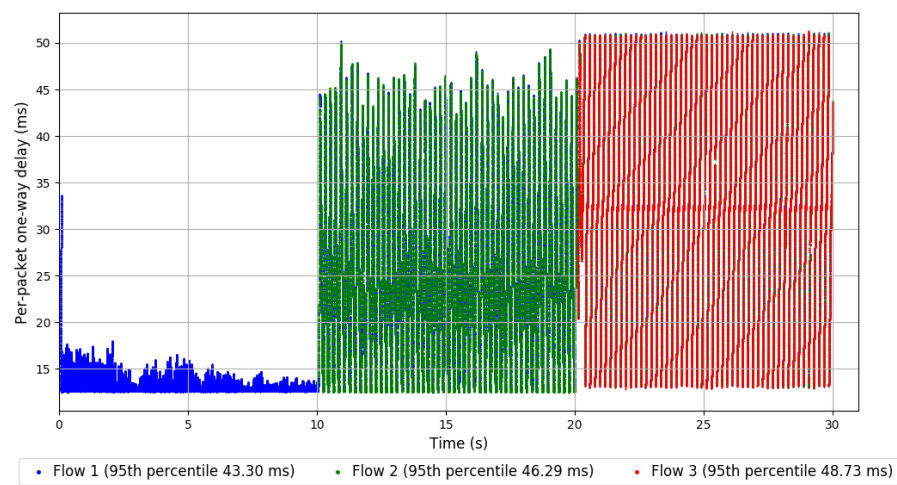
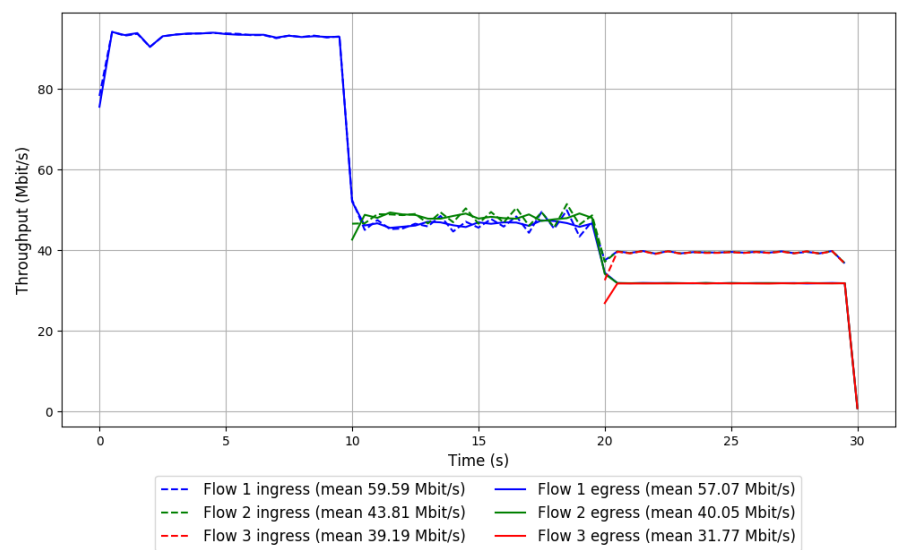
-- Flow 3:

Average throughput: 31.77 Mbit/s

95th percentile per-packet one-way delay: 48.735 ms

Loss rate: 18.95%

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

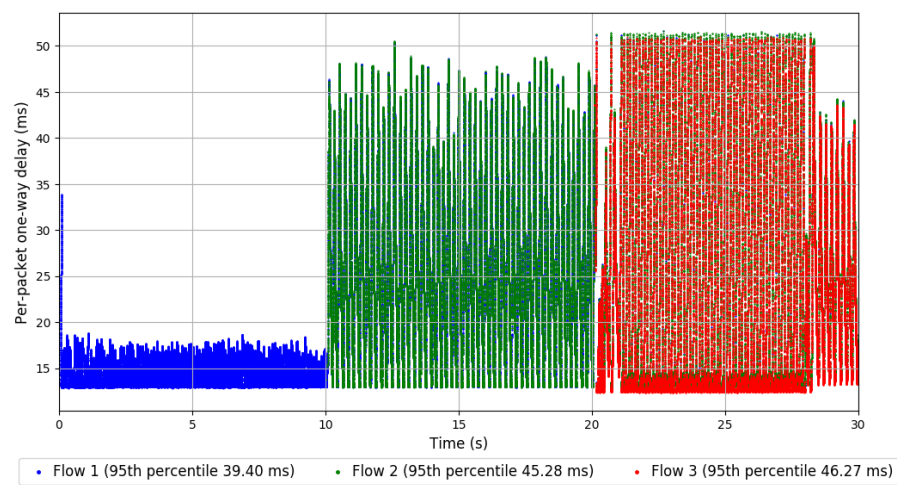
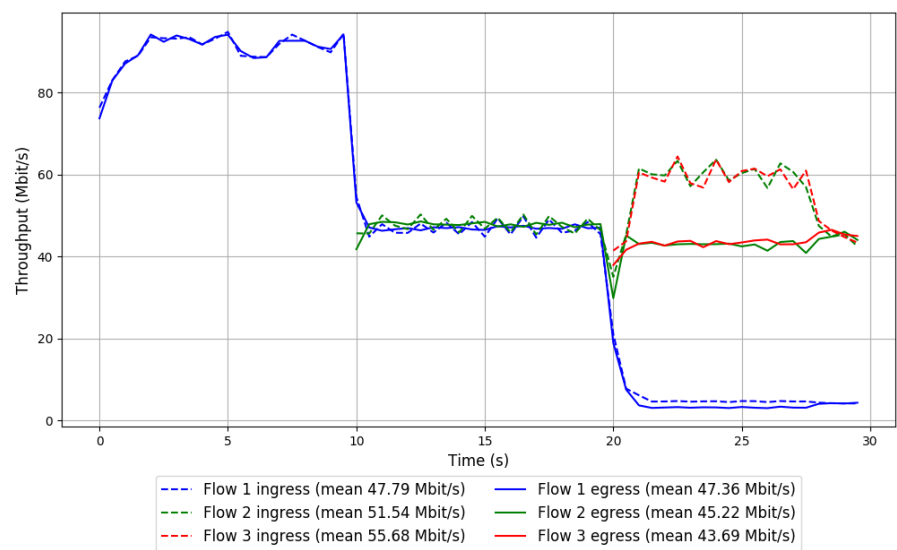


Run 4: Statistics of TaoVA-100x

Start at: 2018-04-10 23:04:48
End at: 2018-04-10 23:05:18
Local clock offset: 1.297 ms
Remote clock offset: -4.458 ms

Below is generated by plot.py at 2018-04-11 02:08:19
Datalink statistics
-- Total of 3 flows:
Average throughput: 91.96 Mbit/s
95th percentile per-packet one-way delay: 43.547 ms
Loss rate: 8.56%
-- Flow 1:
Average throughput: 47.36 Mbit/s
95th percentile per-packet one-way delay: 39.398 ms
Loss rate: 0.89%
-- Flow 2:
Average throughput: 45.22 Mbit/s
95th percentile per-packet one-way delay: 45.281 ms
Loss rate: 12.24%
-- Flow 3:
Average throughput: 43.69 Mbit/s
95th percentile per-packet one-way delay: 46.268 ms
Loss rate: 21.56%

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

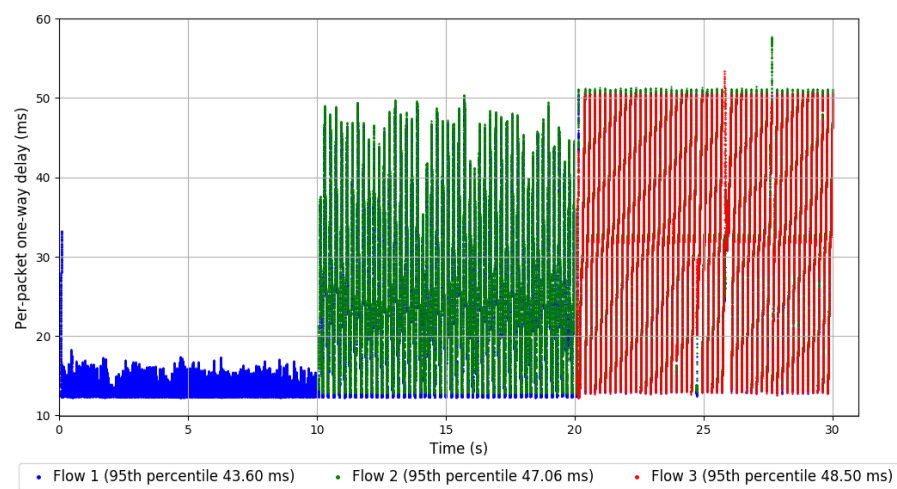
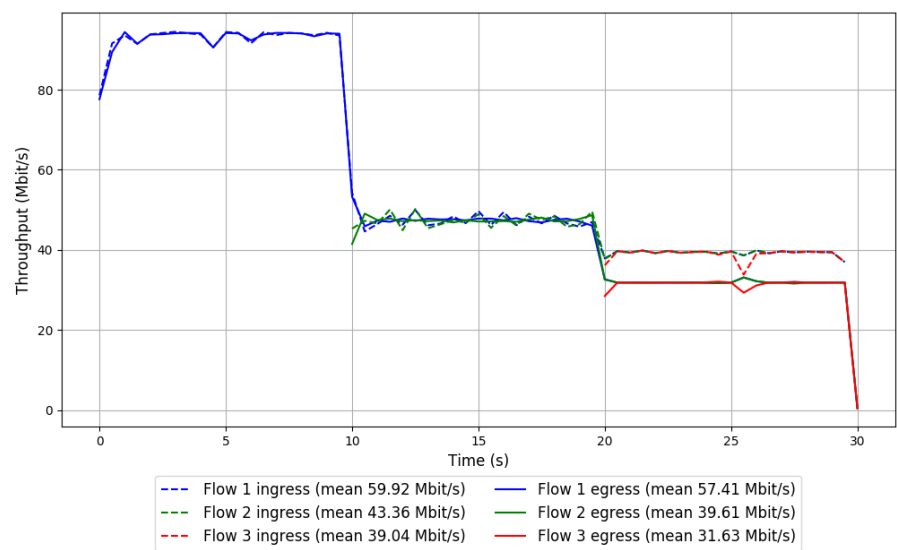


Run 5: Statistics of TaoVA-100x

Start at: 2018-04-10 23:26:00
End at: 2018-04-10 23:26:30
Local clock offset: -0.262 ms
Remote clock offset: -7.309 ms

Below is generated by plot.py at 2018-04-11 02:08:44
Datalink statistics
-- Total of 3 flows:
Average throughput: 94.32 Mbit/s
95th percentile per-packet one-way delay: 45.938 ms
Loss rate: 7.23%
-- Flow 1:
Average throughput: 57.41 Mbit/s
95th percentile per-packet one-way delay: 43.598 ms
Loss rate: 4.10%
-- Flow 2:
Average throughput: 39.61 Mbit/s
95th percentile per-packet one-way delay: 47.061 ms
Loss rate: 8.52%
-- Flow 3:
Average throughput: 31.63 Mbit/s
95th percentile per-packet one-way delay: 48.501 ms
Loss rate: 18.80%

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

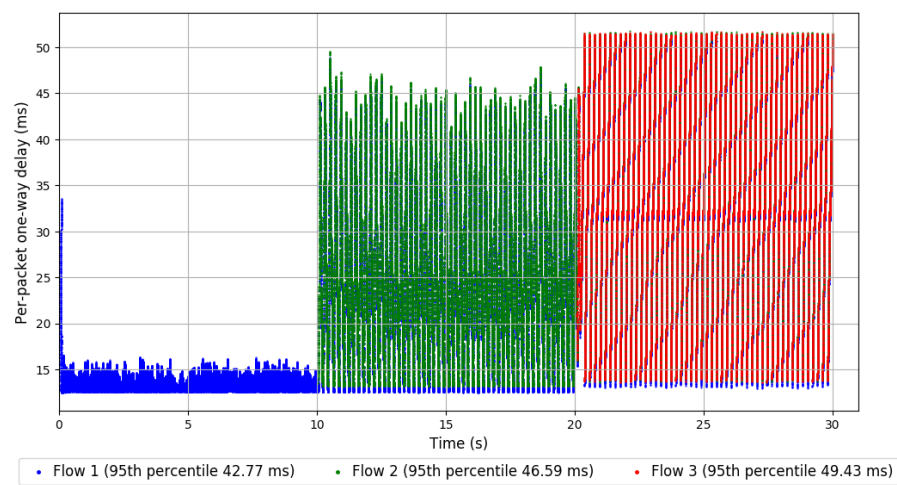
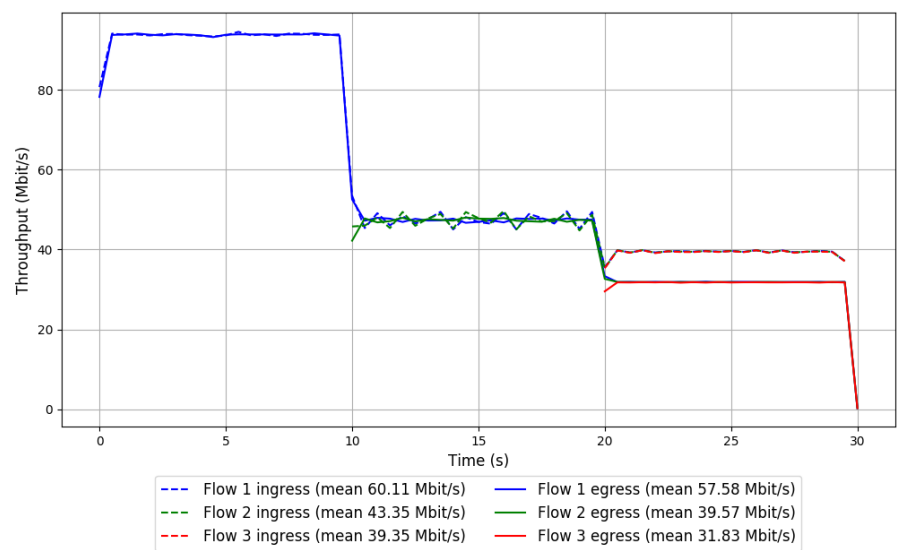


Run 6: Statistics of TaoVA-100x

Start at: 2018-04-10 23:47:11
End at: 2018-04-10 23:47:41
Local clock offset: -1.208 ms
Remote clock offset: -8.386 ms

Below is generated by plot.py at 2018-04-11 02:08:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 94.51 Mbit/s
95th percentile per-packet one-way delay: 45.481 ms
Loss rate: 7.31%
-- Flow 1:
Average throughput: 57.58 Mbit/s
95th percentile per-packet one-way delay: 42.768 ms
Loss rate: 4.13%
-- Flow 2:
Average throughput: 39.57 Mbit/s
95th percentile per-packet one-way delay: 46.588 ms
Loss rate: 8.61%
-- Flow 3:
Average throughput: 31.83 Mbit/s
95th percentile per-packet one-way delay: 49.430 ms
Loss rate: 19.05%

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

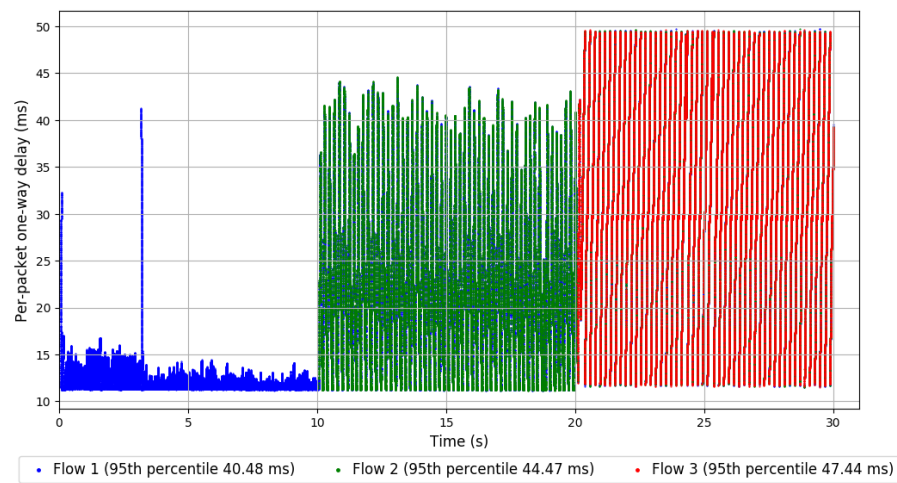
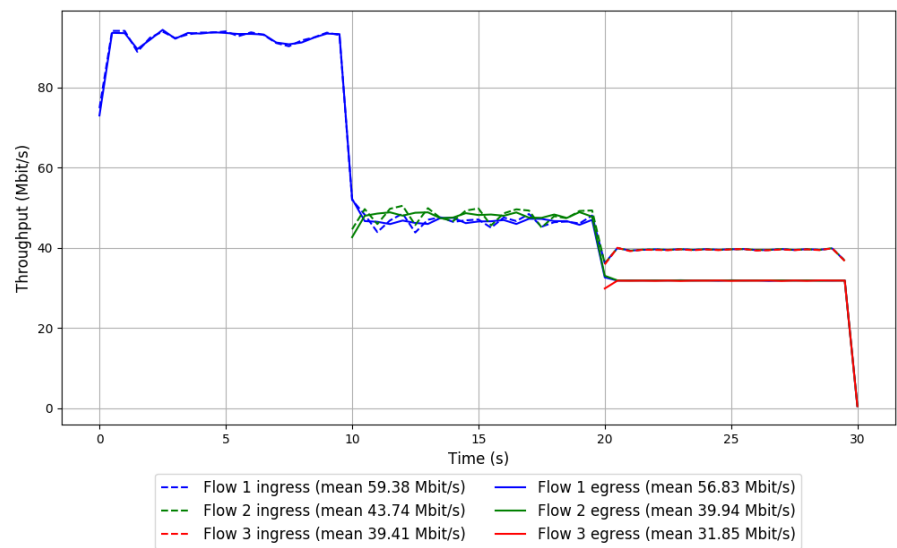


Run 7: Statistics of TaoVA-100x

Start at: 2018-04-11 00:08:33
End at: 2018-04-11 00:09:03
Local clock offset: -0.297 ms
Remote clock offset: -0.203 ms

Below is generated by plot.py at 2018-04-11 02:08:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 94.02 Mbit/s
95th percentile per-packet one-way delay: 43.582 ms
Loss rate: 7.36%
-- Flow 1:
Average throughput: 56.83 Mbit/s
95th percentile per-packet one-way delay: 40.484 ms
Loss rate: 4.20%
-- Flow 2:
Average throughput: 39.94 Mbit/s
95th percentile per-packet one-way delay: 44.468 ms
Loss rate: 8.56%
-- Flow 3:
Average throughput: 31.85 Mbit/s
95th percentile per-packet one-way delay: 47.436 ms
Loss rate: 19.04%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-04-11 00:30:11

End at: 2018-04-11 00:30:42

Local clock offset: -0.273 ms

Remote clock offset: 3.419 ms

Below is generated by plot.py at 2018-04-11 02:08:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.52 Mbit/s

95th percentile per-packet one-way delay: 45.193 ms

Loss rate: 7.52%

-- Flow 1:

Average throughput: 57.47 Mbit/s

95th percentile per-packet one-way delay: 42.225 ms

Loss rate: 4.28%

-- Flow 2:

Average throughput: 39.79 Mbit/s

95th percentile per-packet one-way delay: 45.952 ms

Loss rate: 8.82%

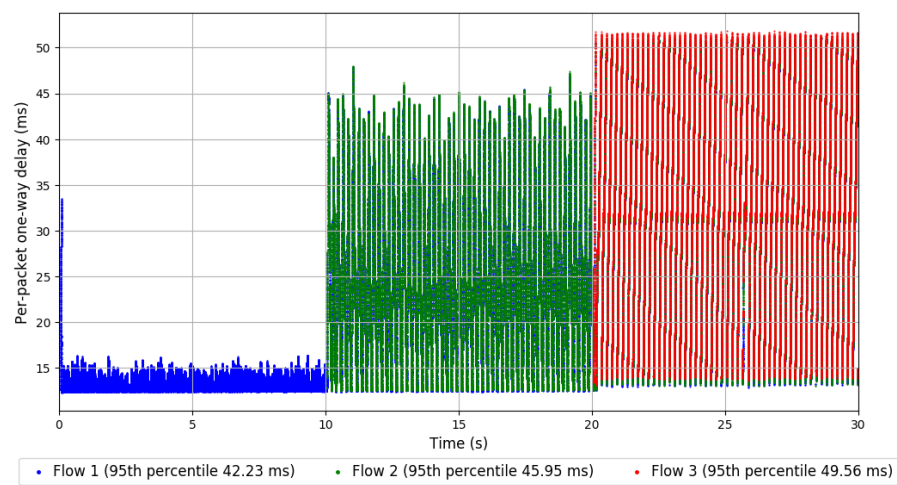
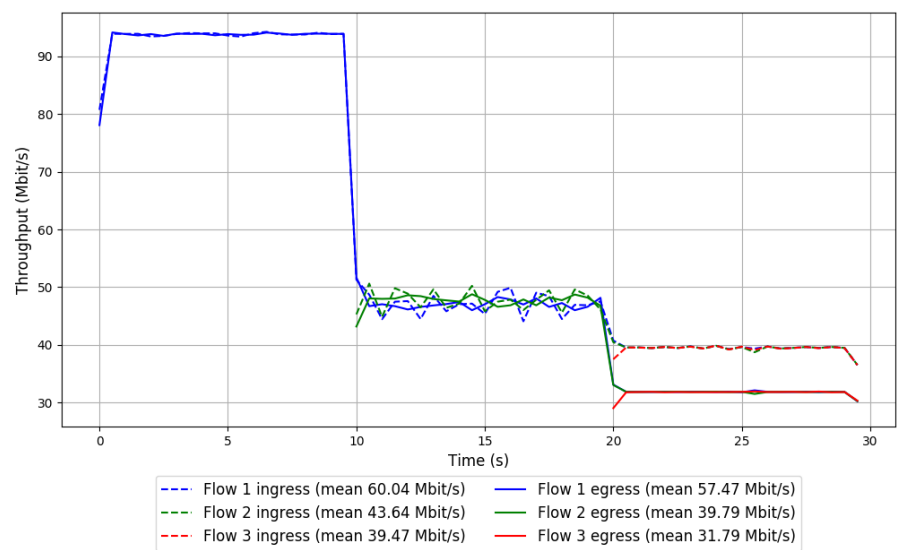
-- Flow 3:

Average throughput: 31.79 Mbit/s

95th percentile per-packet one-way delay: 49.558 ms

Loss rate: 19.47%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-04-11 00:51:48

End at: 2018-04-11 00:52:18

Local clock offset: 1.487 ms

Remote clock offset: 1.468 ms

Below is generated by plot.py at 2018-04-11 02:10:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.29 Mbit/s

95th percentile per-packet one-way delay: 44.271 ms

Loss rate: 7.39%

-- Flow 1:

Average throughput: 57.15 Mbit/s

95th percentile per-packet one-way delay: 41.381 ms

Loss rate: 4.21%

-- Flow 2:

Average throughput: 39.89 Mbit/s

95th percentile per-packet one-way delay: 45.444 ms

Loss rate: 8.64%

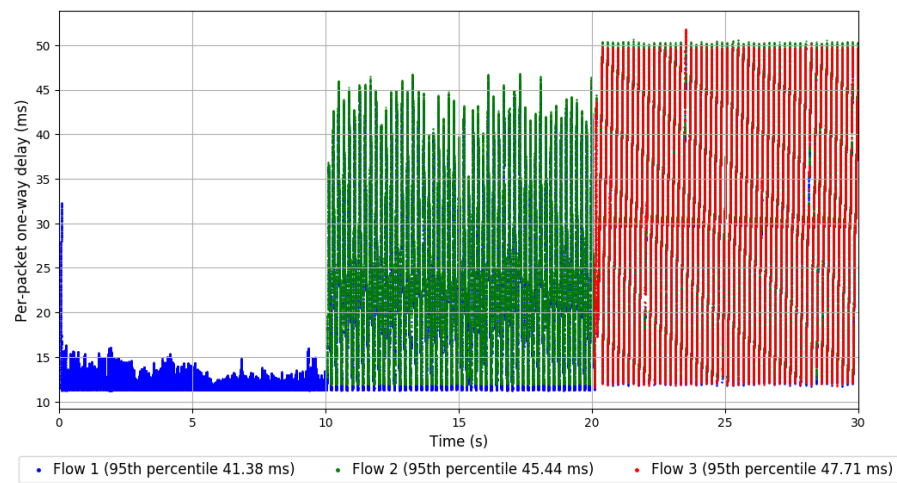
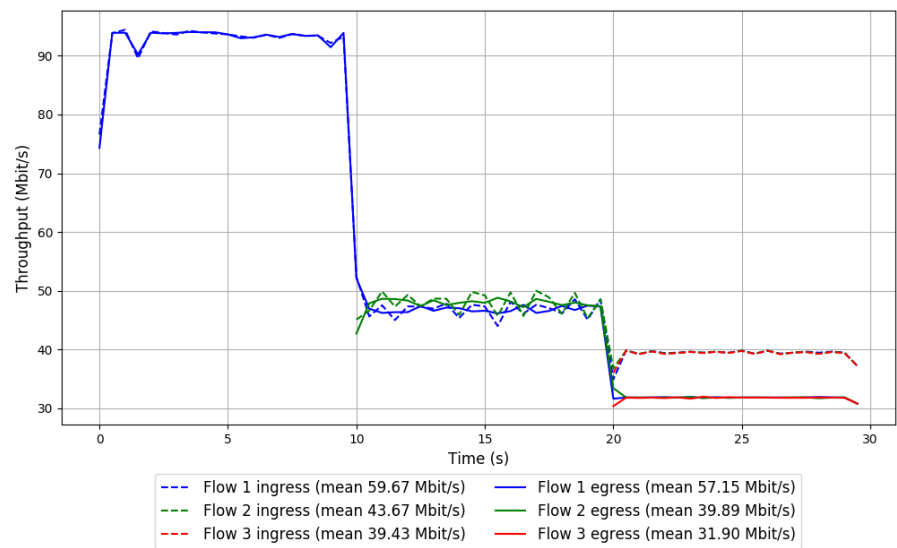
-- Flow 3:

Average throughput: 31.90 Mbit/s

95th percentile per-packet one-way delay: 47.708 ms

Loss rate: 19.16%

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



Run 10: Statistics of TaoVA-100x

Start at: 2018-04-11 01:13:12

End at: 2018-04-11 01:13:42

Local clock offset: 1.101 ms

Remote clock offset: 9.165 ms

Below is generated by plot.py at 2018-04-11 02:10:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.94 Mbit/s

95th percentile per-packet one-way delay: 44.607 ms

Loss rate: 7.32%

-- Flow 1:

Average throughput: 56.85 Mbit/s

95th percentile per-packet one-way delay: 41.820 ms

Loss rate: 4.17%

-- Flow 2:

Average throughput: 39.82 Mbit/s

95th percentile per-packet one-way delay: 45.186 ms

Loss rate: 8.52%

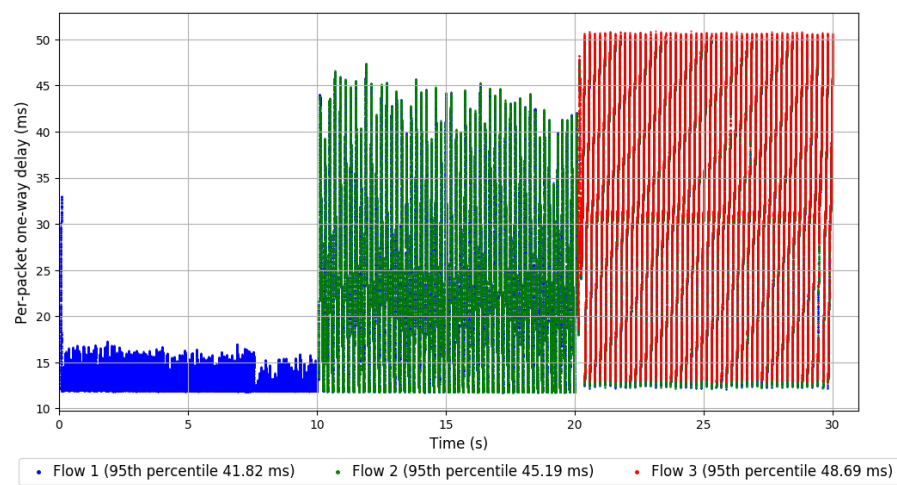
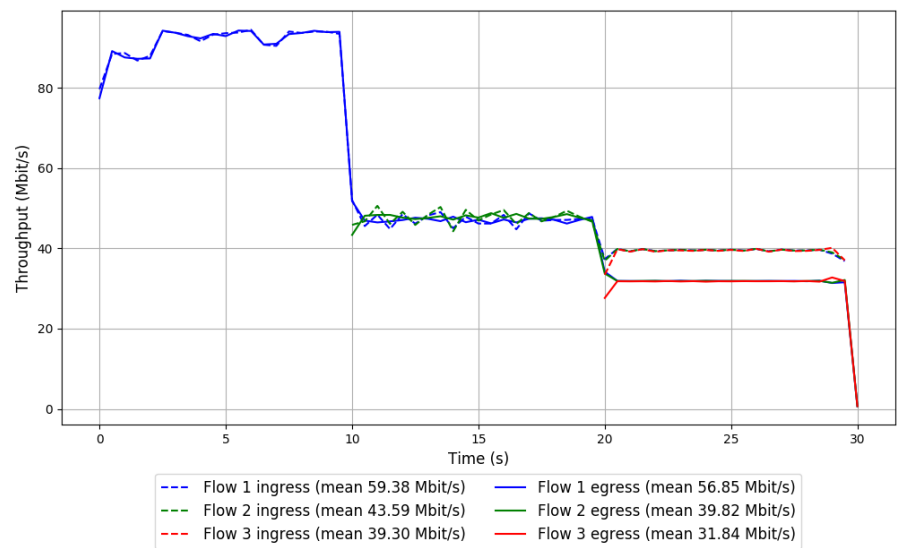
-- Flow 3:

Average throughput: 31.84 Mbit/s

95th percentile per-packet one-way delay: 48.689 ms

Loss rate: 18.97%

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

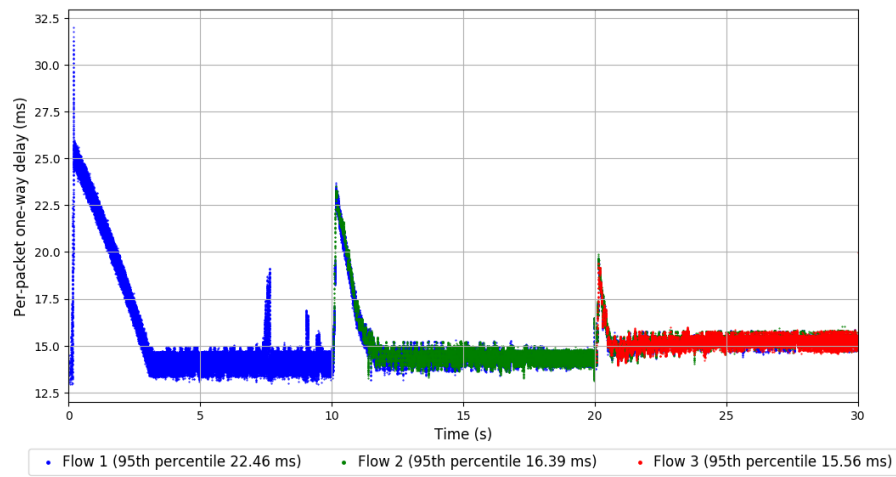
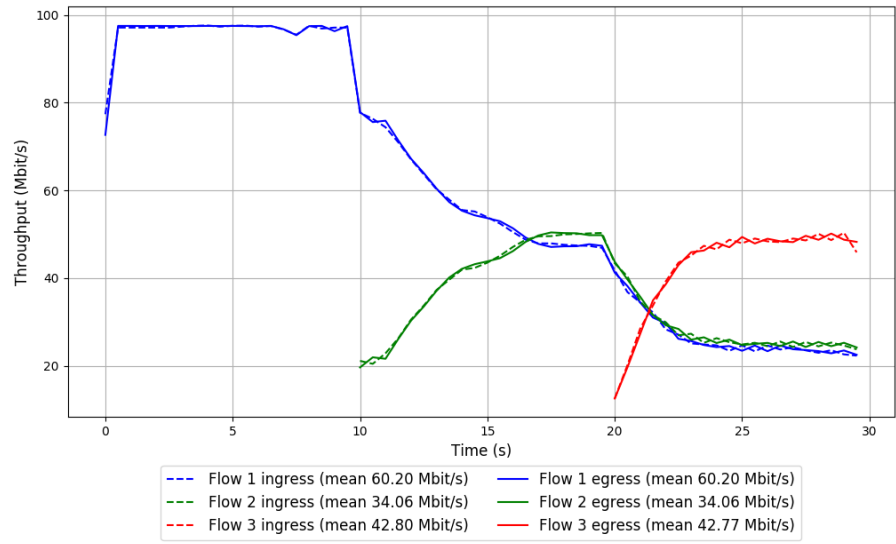


Run 1: Statistics of TCP Vegas

Start at: 2018-04-10 21:49:49
End at: 2018-04-10 21:50:19
Local clock offset: 0.189 ms
Remote clock offset: -0.325 ms

Below is generated by plot.py at 2018-04-11 02:10:48
Datalink statistics
-- Total of 3 flows:
Average throughput: 97.07 Mbit/s
95th percentile per-packet one-way delay: 21.090 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 60.20 Mbit/s
95th percentile per-packet one-way delay: 22.462 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 34.06 Mbit/s
95th percentile per-packet one-way delay: 16.394 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 42.77 Mbit/s
95th percentile per-packet one-way delay: 15.560 ms
Loss rate: 0.00%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-04-10 22:12:18

End at: 2018-04-10 22:12:48

Local clock offset: 0.489 ms

Remote clock offset: -3.98 ms

Below is generated by plot.py at 2018-04-11 02:10:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.11 Mbit/s

95th percentile per-packet one-way delay: 19.337 ms

Loss rate: 0.17%

-- Flow 1:

Average throughput: 56.93 Mbit/s

95th percentile per-packet one-way delay: 20.875 ms

Loss rate: 0.28%

-- Flow 2:

Average throughput: 38.56 Mbit/s

95th percentile per-packet one-way delay: 14.673 ms

Loss rate: 0.00%

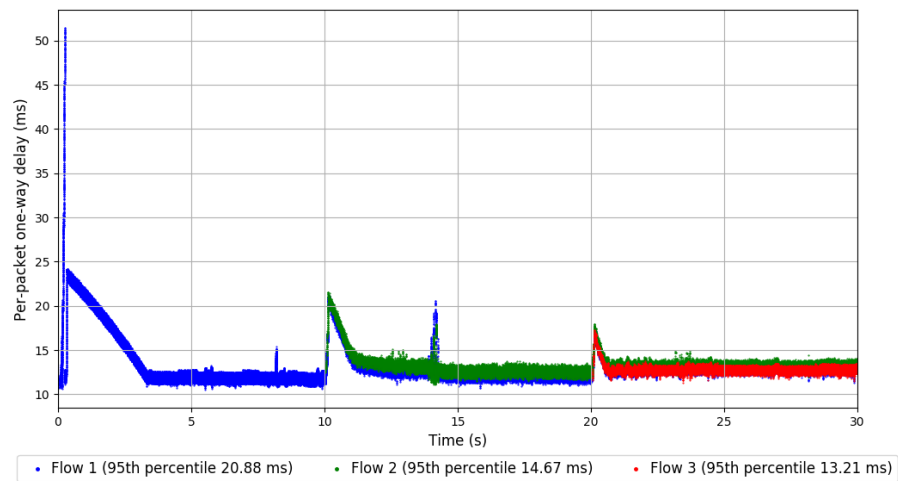
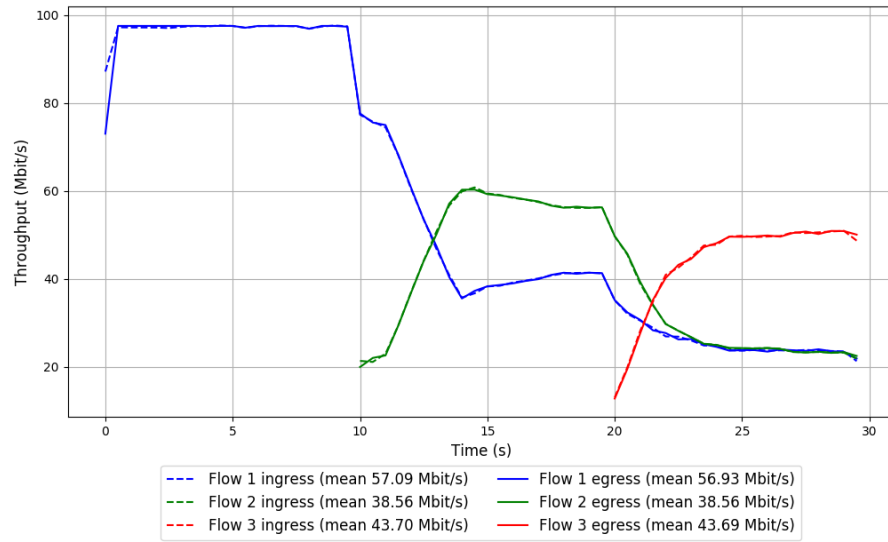
-- Flow 3:

Average throughput: 43.69 Mbit/s

95th percentile per-packet one-way delay: 13.207 ms

Loss rate: 0.00%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-04-10 22:33:48

End at: 2018-04-10 22:34:18

Local clock offset: 0.779 ms

Remote clock offset: 4.525 ms

Below is generated by plot.py at 2018-04-11 02:10:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.15 Mbit/s

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

Loss rate: 0.15%

-- Flow 1:

Average throughput: 55.79 Mbit/s

95th percentile per-packet one-way delay: 19.865 ms

Loss rate: 0.27%

-- Flow 2:

Average throughput: 37.62 Mbit/s

95th percentile per-packet one-way delay: 15.186 ms

Loss rate: 0.00%

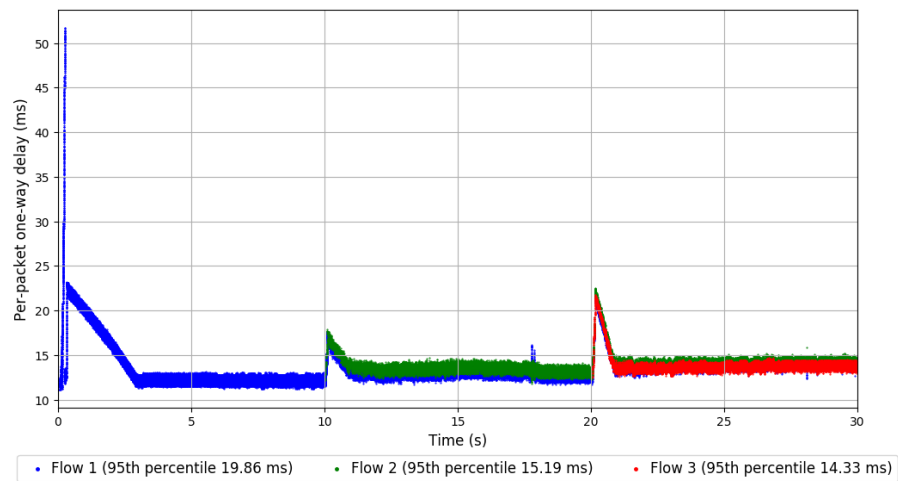
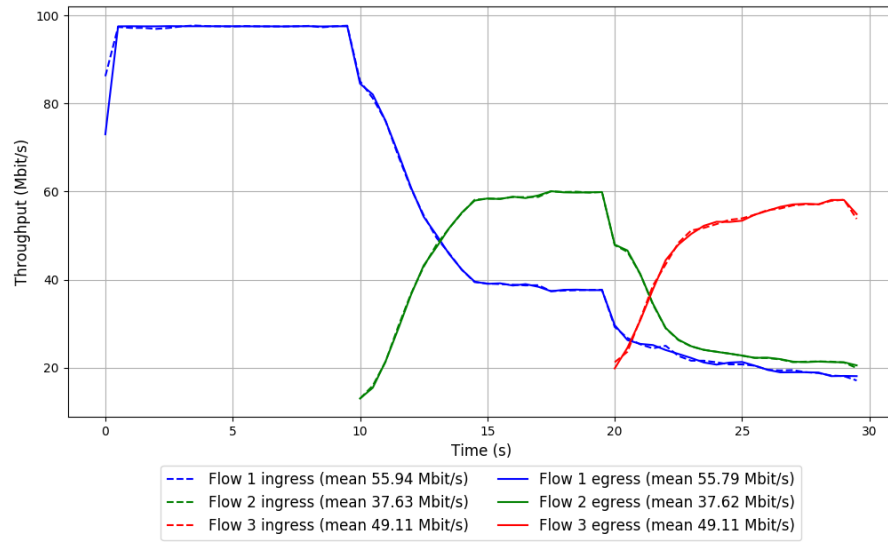
-- Flow 3:

Average throughput: 49.11 Mbit/s

95th percentile per-packet one-way delay: 14.328 ms

Loss rate: 0.00%

Run 3: Report of TCP Vegas — Data Link

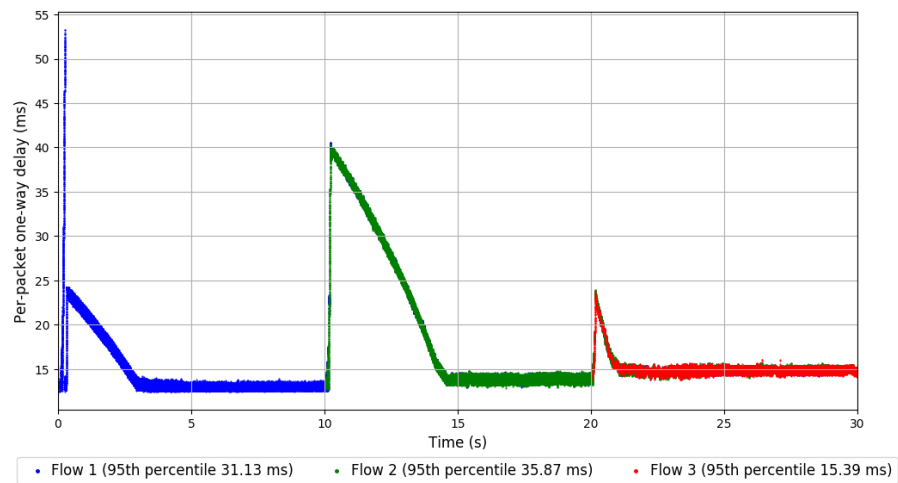
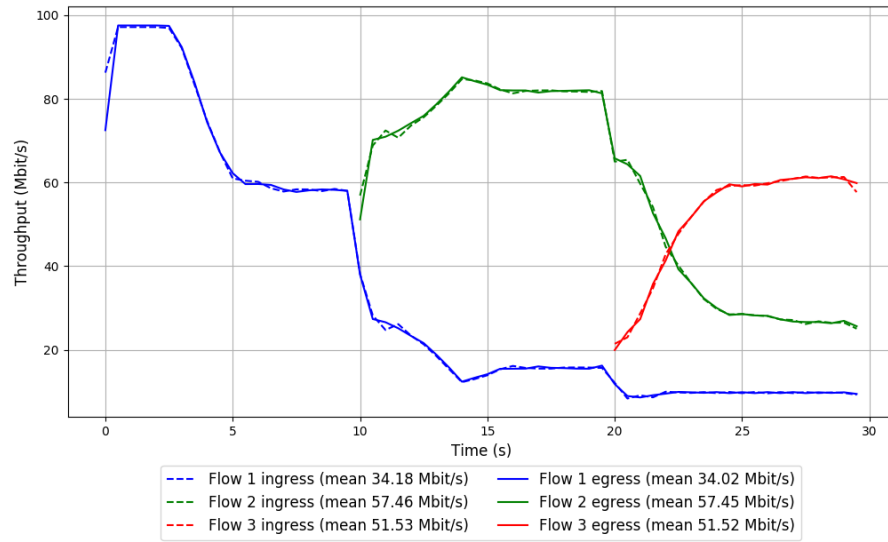


Run 4: Statistics of TCP Vegas

Start at: 2018-04-10 22:55:21
End at: 2018-04-10 22:55:51
Local clock offset: 1.193 ms
Remote clock offset: -0.803 ms

Below is generated by plot.py at 2018-04-11 02:10:48
Datalink statistics
-- Total of 3 flows:
Average throughput: 89.38 Mbit/s
95th percentile per-packet one-way delay: 33.258 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 34.02 Mbit/s
95th percentile per-packet one-way delay: 31.126 ms
Loss rate: 0.45%
-- Flow 2:
Average throughput: 57.45 Mbit/s
95th percentile per-packet one-way delay: 35.865 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 51.52 Mbit/s
95th percentile per-packet one-way delay: 15.395 ms
Loss rate: 0.00%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-04-10 23:16:29

End at: 2018-04-10 23:16:59

Local clock offset: 1.916 ms

Remote clock offset: -6.58 ms

Below is generated by plot.py at 2018-04-11 02:10:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.14 Mbit/s

95th percentile per-packet one-way delay: 20.477 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 52.03 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 43.01 Mbit/s

95th percentile per-packet one-way delay: 17.692 ms

Loss rate: 0.00%

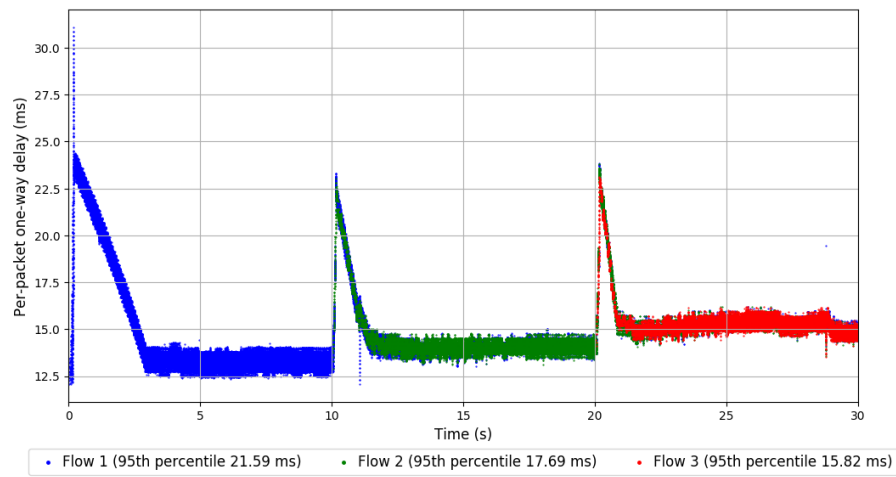
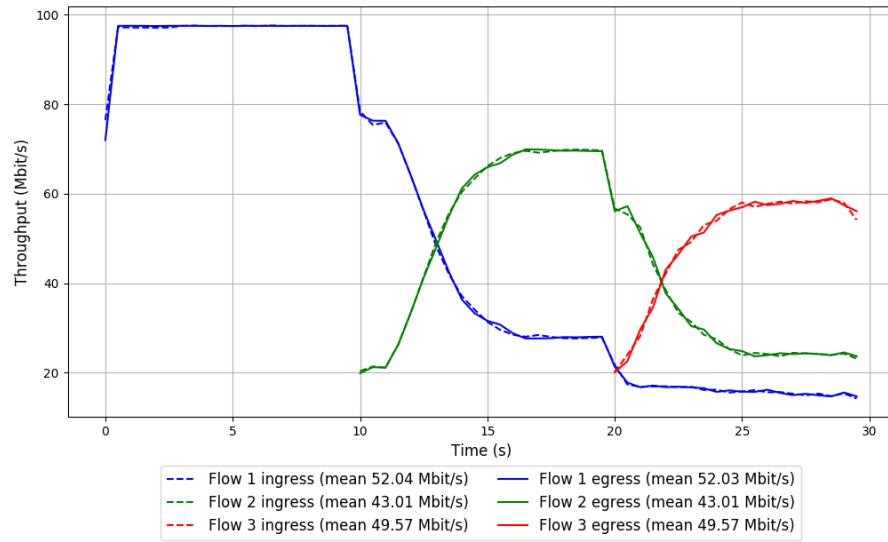
-- Flow 3:

Average throughput: 49.57 Mbit/s

95th percentile per-packet one-way delay: 15.818 ms

Loss rate: 0.00%

Run 5: Report of TCP Vegas — Data Link

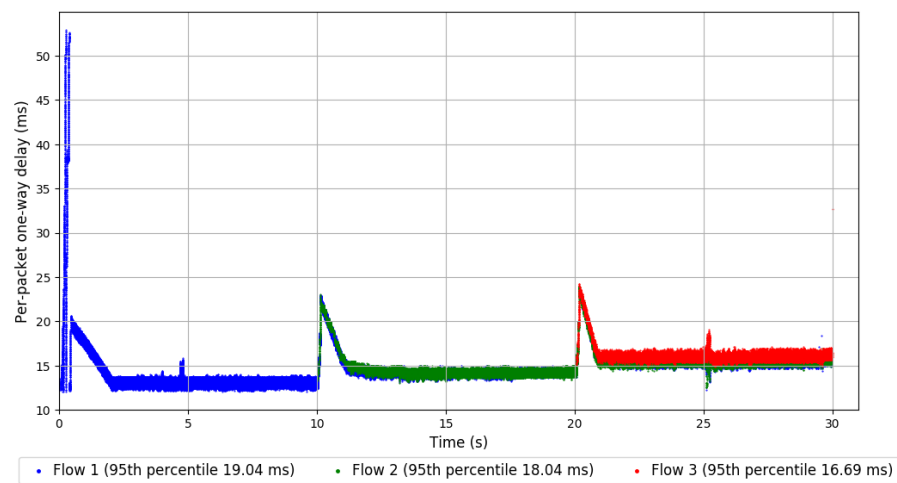
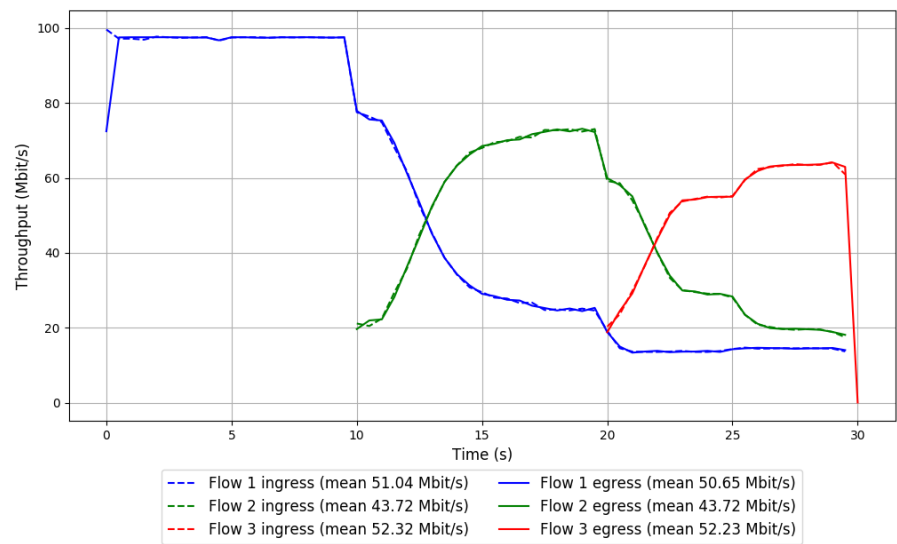


Run 6: Statistics of TCP Vegas

Start at: 2018-04-10 23:37:47
End at: 2018-04-10 23:38:17
Local clock offset: -0.762 ms
Remote clock offset: -7.987 ms

Below is generated by plot.py at 2018-04-11 02:10:48
Datalink statistics
-- Total of 3 flows:
Average throughput: 97.07 Mbit/s
95th percentile per-packet one-way delay: 18.567 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 50.65 Mbit/s
95th percentile per-packet one-way delay: 19.042 ms
Loss rate: 0.76%
-- Flow 2:
Average throughput: 43.72 Mbit/s
95th percentile per-packet one-way delay: 18.043 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 52.23 Mbit/s
95th percentile per-packet one-way delay: 16.689 ms
Loss rate: 0.00%

Run 6: Report of TCP Vegas — Data Link

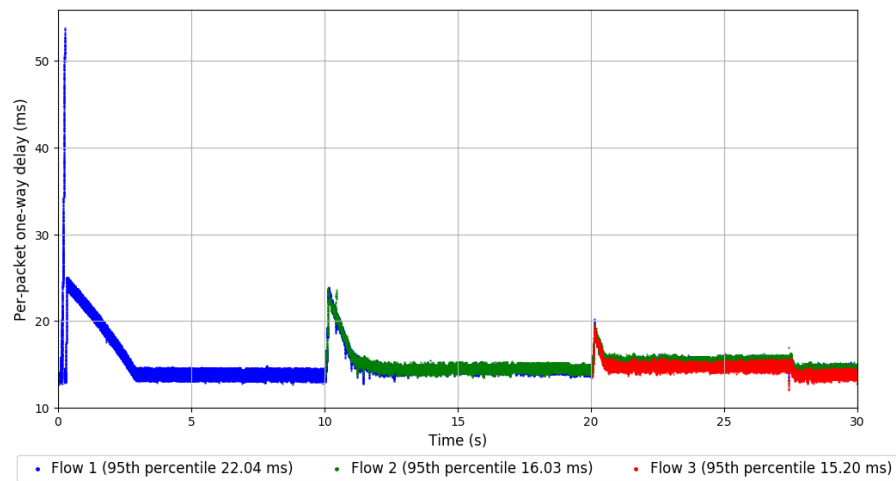
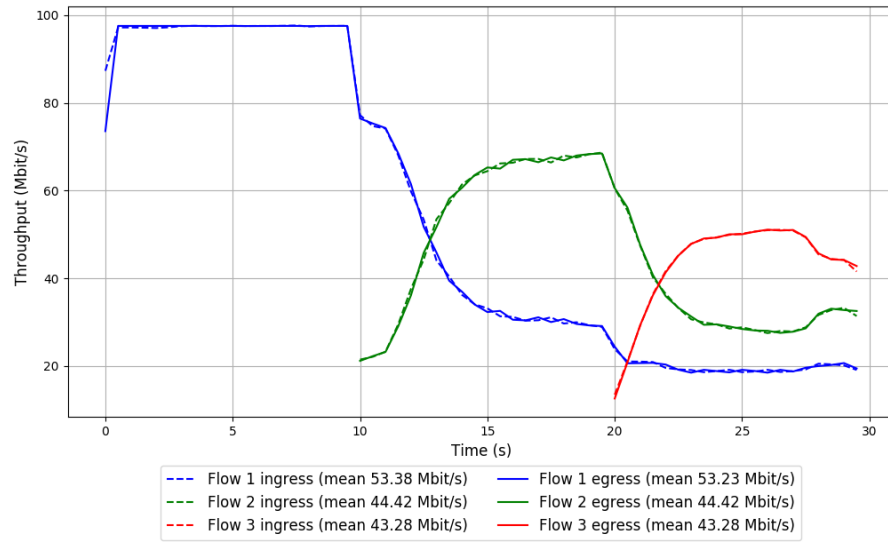


Run 7: Statistics of TCP Vegas

Start at: 2018-04-10 23:58:55
End at: 2018-04-10 23:59:25
Local clock offset: -1.255 ms
Remote clock offset: -5.251 ms

Below is generated by plot.py at 2018-04-11 02:11:15
Datalink statistics
-- Total of 3 flows:
Average throughput: 97.17 Mbit/s
95th percentile per-packet one-way delay: 20.438 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 53.23 Mbit/s
95th percentile per-packet one-way delay: 22.038 ms
Loss rate: 0.28%
-- Flow 2:
Average throughput: 44.42 Mbit/s
95th percentile per-packet one-way delay: 16.030 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 43.28 Mbit/s
95th percentile per-packet one-way delay: 15.200 ms
Loss rate: 0.00%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-04-11 00:20:38

End at: 2018-04-11 00:21:08

Local clock offset: -0.53 ms

Remote clock offset: 3.206 ms

Below is generated by plot.py at 2018-04-11 02:11:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.17 Mbit/s

95th percentile per-packet one-way delay: 21.473 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 54.55 Mbit/s

95th percentile per-packet one-way delay: 23.407 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 41.50 Mbit/s

95th percentile per-packet one-way delay: 15.347 ms

Loss rate: 0.00%

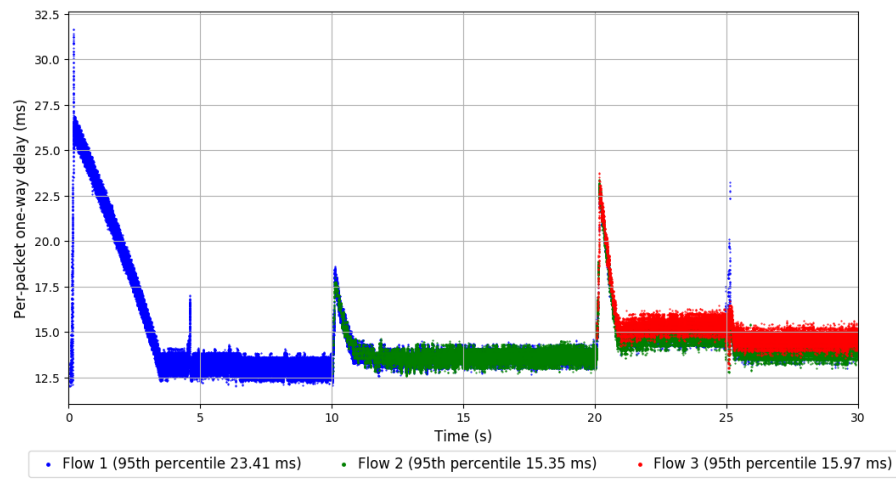
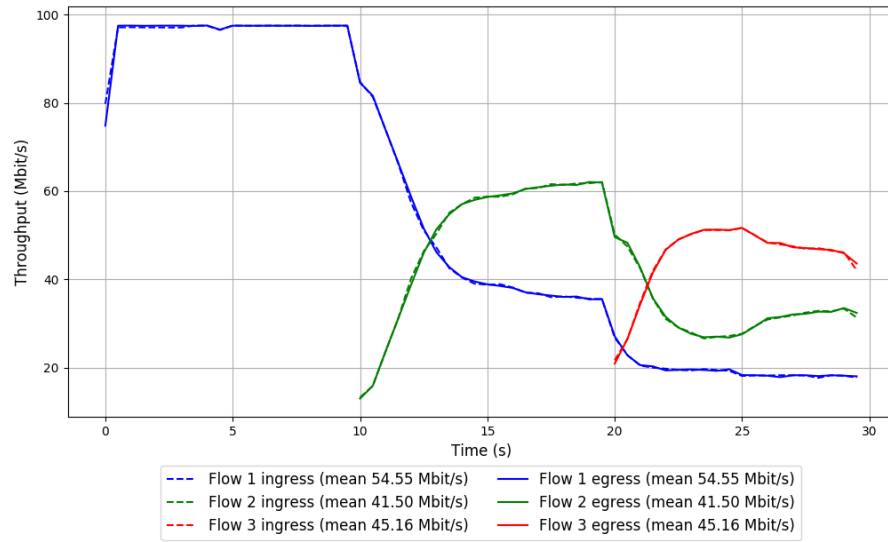
-- Flow 3:

Average throughput: 45.16 Mbit/s

95th percentile per-packet one-way delay: 15.970 ms

Loss rate: 0.00%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-04-11 00:42:02

End at: 2018-04-11 00:42:32

Local clock offset: 1.395 ms

Remote clock offset: 1.905 ms

Below is generated by plot.py at 2018-04-11 02:11:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.13 Mbit/s

95th percentile per-packet one-way delay: 18.278 ms

Loss rate: 0.40%

-- Flow 1:

Average throughput: 55.89 Mbit/s

95th percentile per-packet one-way delay: 18.950 ms

Loss rate: 0.69%

-- Flow 2:

Average throughput: 39.08 Mbit/s

95th percentile per-packet one-way delay: 16.484 ms

Loss rate: 0.00%

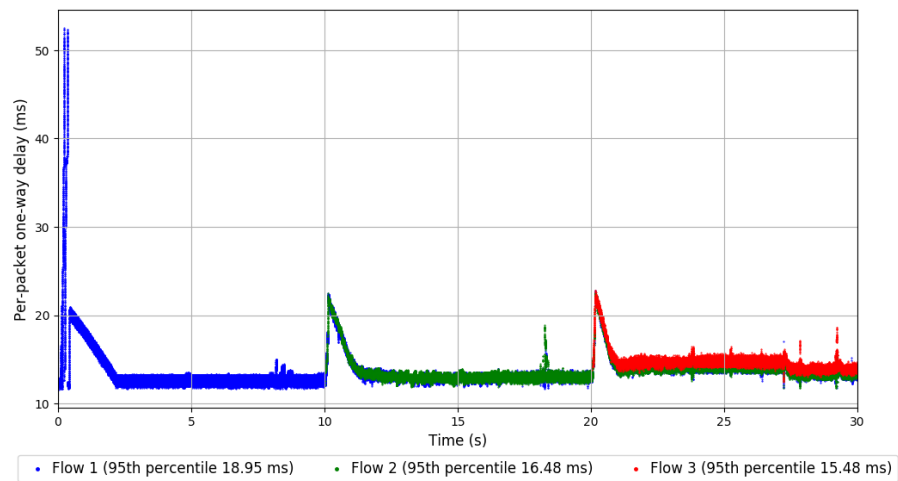
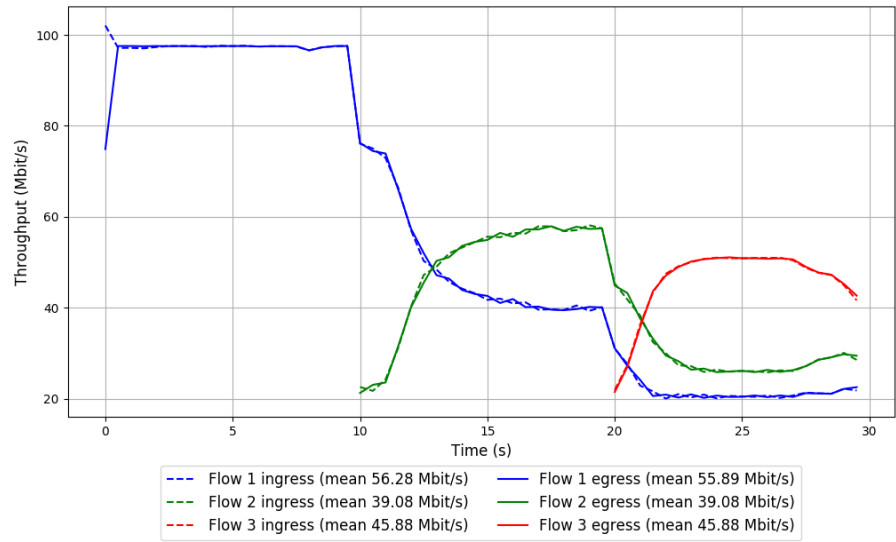
-- Flow 3:

Average throughput: 45.88 Mbit/s

95th percentile per-packet one-way delay: 15.480 ms

Loss rate: 0.00%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-04-11 01:03:39

End at: 2018-04-11 01:04:09

Local clock offset: 1.553 ms

Remote clock offset: 3.189 ms

Below is generated by plot.py at 2018-04-11 02:11:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.19 Mbit/s

95th percentile per-packet one-way delay: 20.767 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 52.45 Mbit/s

95th percentile per-packet one-way delay: 23.310 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 46.08 Mbit/s

95th percentile per-packet one-way delay: 13.941 ms

Loss rate: 0.00%

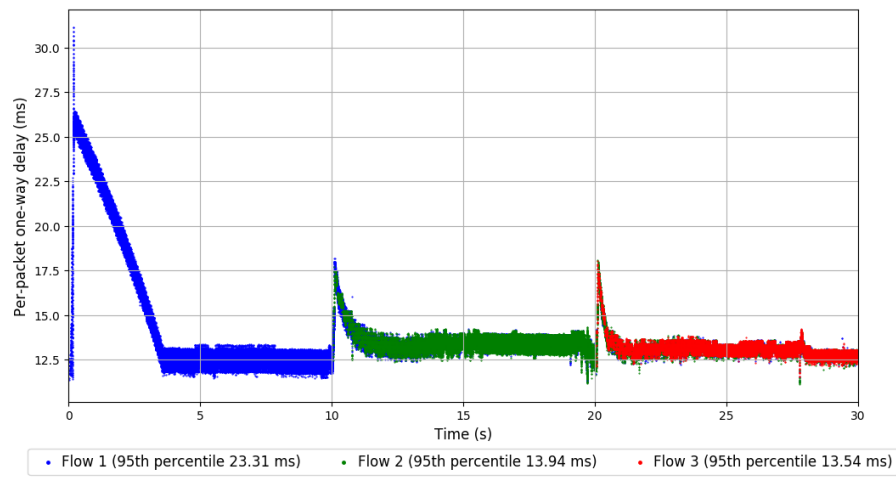
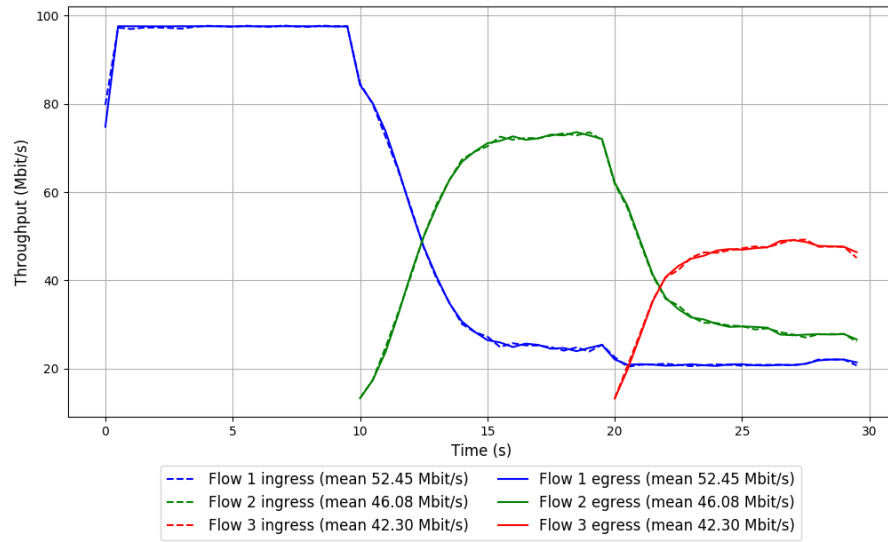
-- Flow 3:

Average throughput: 42.30 Mbit/s

95th percentile per-packet one-way delay: 13.545 ms

Loss rate: 0.00%

Run 10: Report of TCP Vegas — Data Link

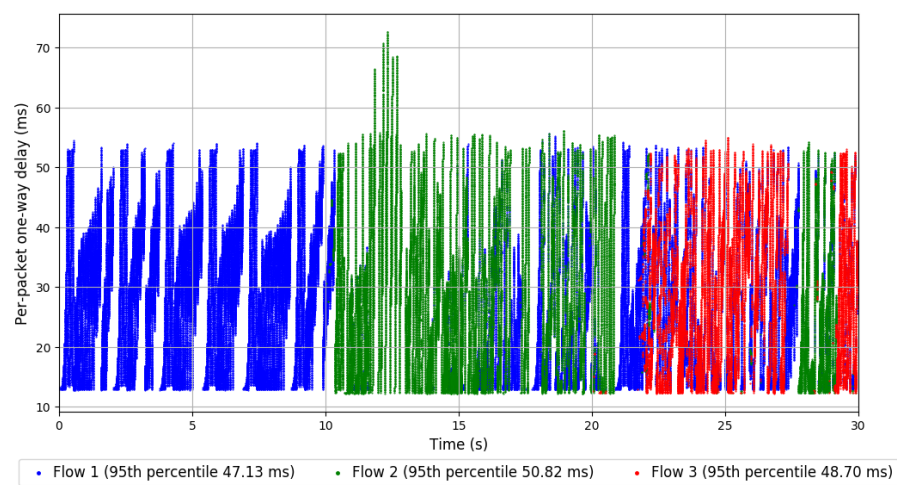
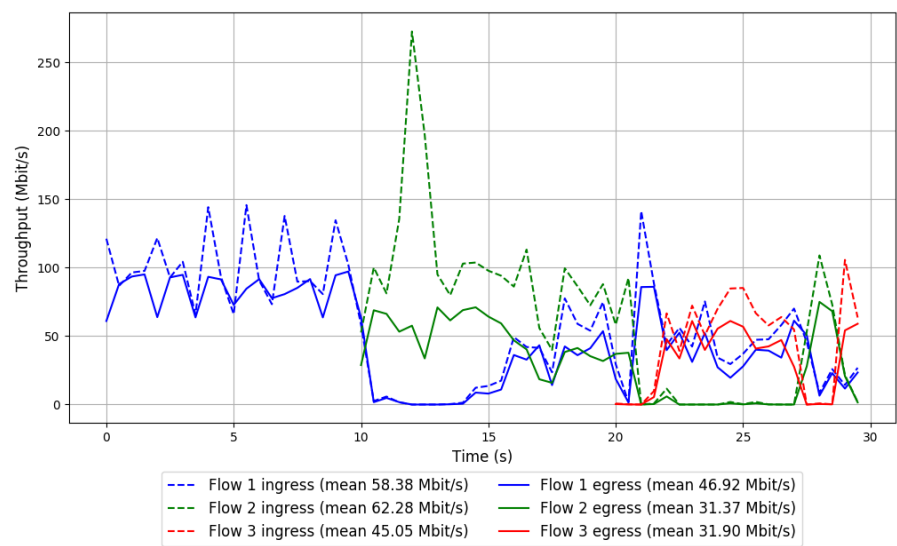


Run 1: Statistics of Verus

Start at: 2018-04-10 21:52:12
End at: 2018-04-10 21:52:42
Local clock offset: 0.989 ms
Remote clock offset: -0.801 ms

Below is generated by plot.py at 2018-04-11 02:11:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 78.35 Mbit/s
95th percentile per-packet one-way delay: 48.474 ms
Loss rate: 31.66%
-- Flow 1:
Average throughput: 46.92 Mbit/s
95th percentile per-packet one-way delay: 47.126 ms
Loss rate: 19.57%
-- Flow 2:
Average throughput: 31.37 Mbit/s
95th percentile per-packet one-way delay: 50.822 ms
Loss rate: 49.62%
-- Flow 3:
Average throughput: 31.90 Mbit/s
95th percentile per-packet one-way delay: 48.700 ms
Loss rate: 29.05%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-04-10 22:14:46

End at: 2018-04-10 22:15:16

Local clock offset: 0.912 ms

Remote clock offset: 0.097 ms

Below is generated by plot.py at 2018-04-11 02:11:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 79.56 Mbit/s

95th percentile per-packet one-way delay: 48.465 ms

Loss rate: 45.25%

-- Flow 1:

Average throughput: 63.10 Mbit/s

95th percentile per-packet one-way delay: 48.607 ms

Loss rate: 47.88%

-- Flow 2:

Average throughput: 18.54 Mbit/s

95th percentile per-packet one-way delay: 47.804 ms

Loss rate: 29.35%

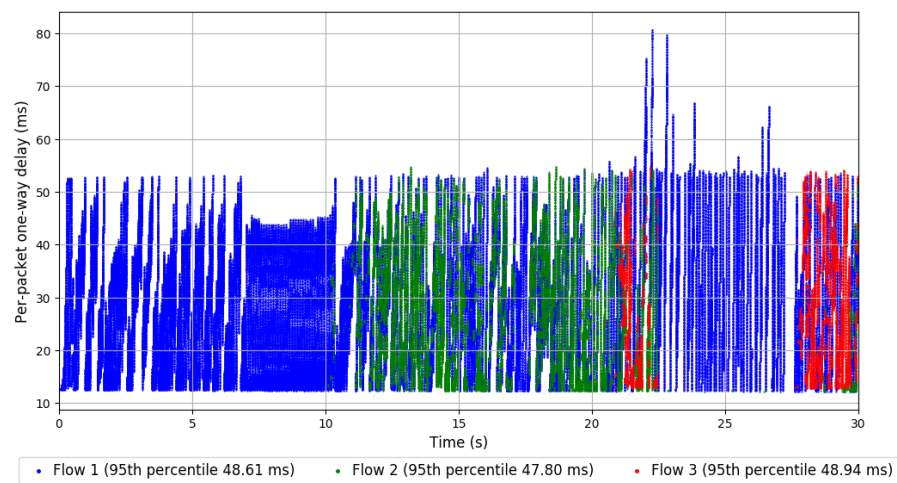
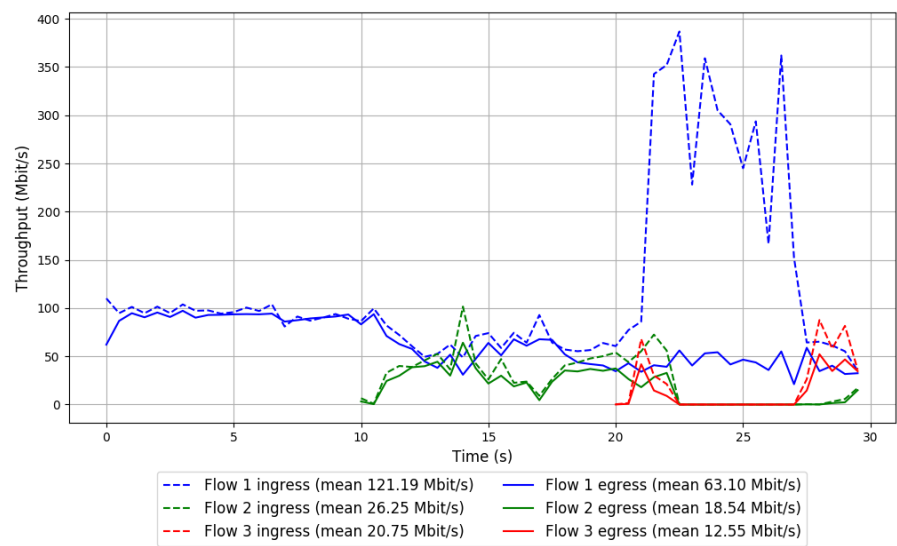
-- Flow 3:

Average throughput: 12.55 Mbit/s

95th percentile per-packet one-way delay: 48.936 ms

Loss rate: 39.37%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-04-10 22:36:14
End at: 2018-04-10 22:36:44
Local clock offset: -0.051 ms
Remote clock offset: 4.789 ms

Below is generated by plot.py at 2018-04-11 02:12:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 68.23 Mbit/s
95th percentile per-packet one-way delay: 51.660 ms
Loss rate: 62.20%
-- Flow 1:
Average throughput: 37.59 Mbit/s
95th percentile per-packet one-way delay: 49.468 ms
Loss rate: 38.35%
-- Flow 2:
Average throughput: 34.96 Mbit/s
95th percentile per-packet one-way delay: 63.921 ms
Loss rate: 78.93%
-- Flow 3:
Average throughput: 29.51 Mbit/s
95th percentile per-packet one-way delay: 46.212 ms
Loss rate: 27.24%

Run 3: Report of Verus — Data Link

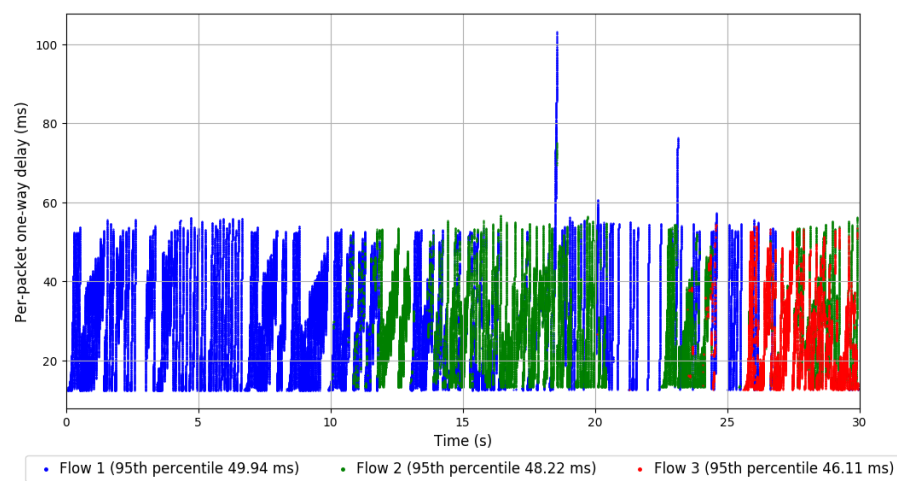
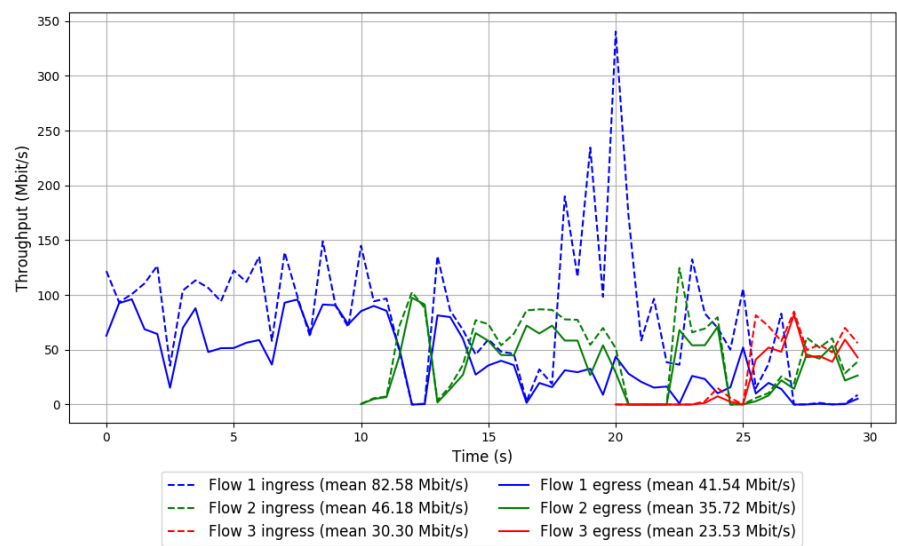


Run 4: Statistics of Verus

Start at: 2018-04-10 22:57:43
End at: 2018-04-10 22:58:13
Local clock offset: 1.608 ms
Remote clock offset: -1.664 ms

Below is generated by plot.py at 2018-04-11 02:12:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 73.03 Mbit/s
95th percentile per-packet one-way delay: 49.193 ms
Loss rate: 40.72%
-- Flow 1:
Average throughput: 41.54 Mbit/s
95th percentile per-packet one-way delay: 49.936 ms
Loss rate: 49.70%
-- Flow 2:
Average throughput: 35.72 Mbit/s
95th percentile per-packet one-way delay: 48.224 ms
Loss rate: 22.49%
-- Flow 3:
Average throughput: 23.53 Mbit/s
95th percentile per-packet one-way delay: 46.109 ms
Loss rate: 22.45%

Run 4: Report of Verus — Data Link

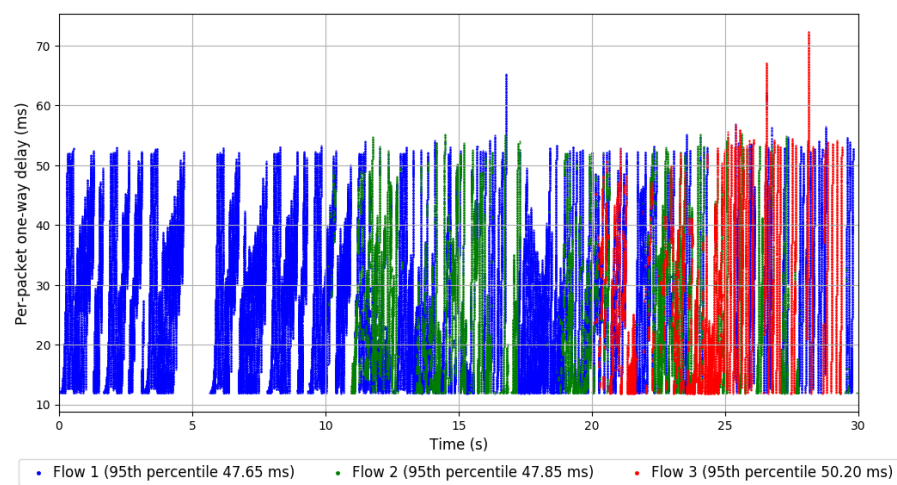
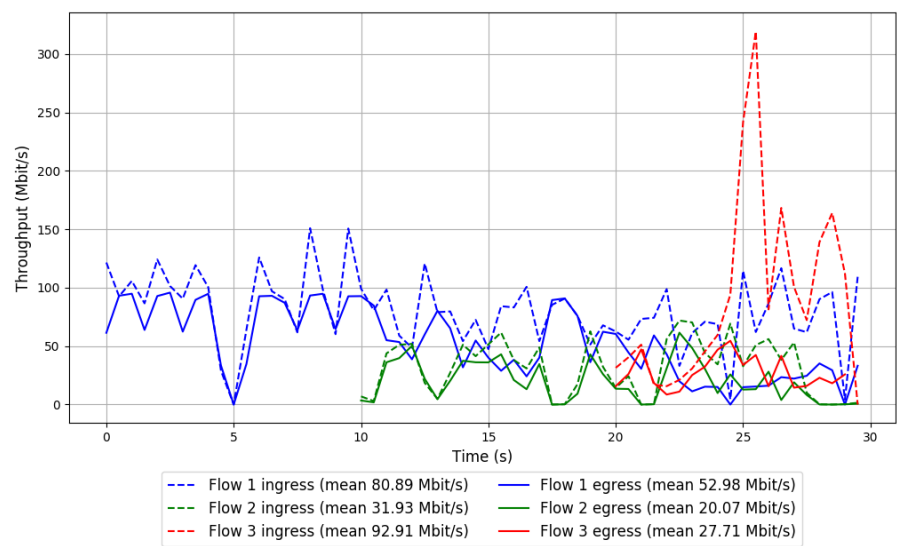


Run 5: Statistics of Verus

Start at: 2018-04-10 23:18:53
End at: 2018-04-10 23:19:23
Local clock offset: 1.354 ms
Remote clock offset: -6.943 ms

Below is generated by plot.py at 2018-04-11 02:12:44
Datalink statistics
-- Total of 3 flows:
Average throughput: 74.71 Mbit/s
95th percentile per-packet one-way delay: 47.968 ms
Loss rate: 43.34%
-- Flow 1:
Average throughput: 52.98 Mbit/s
95th percentile per-packet one-way delay: 47.653 ms
Loss rate: 34.45%
-- Flow 2:
Average throughput: 20.07 Mbit/s
95th percentile per-packet one-way delay: 47.850 ms
Loss rate: 37.20%
-- Flow 3:
Average throughput: 27.71 Mbit/s
95th percentile per-packet one-way delay: 50.195 ms
Loss rate: 71.37%

Run 5: Report of Verus — Data Link

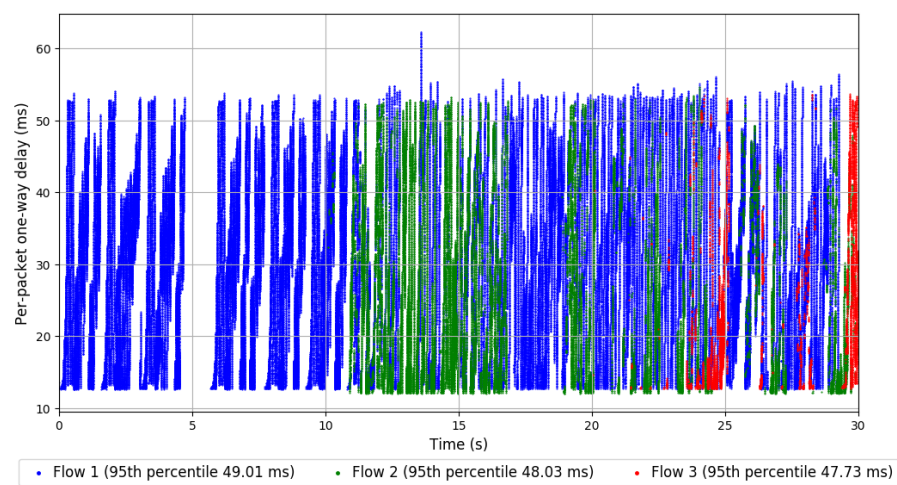
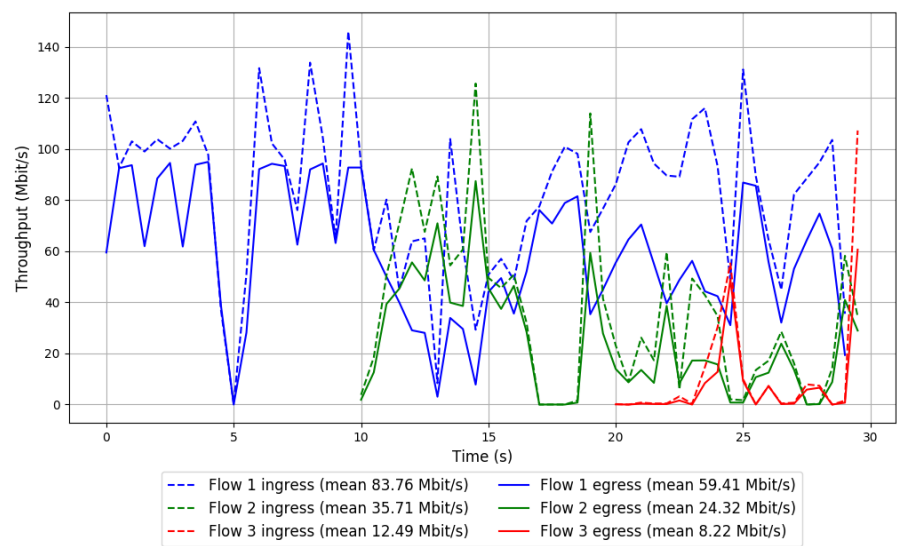


Run 6: Statistics of Verus

Start at: 2018-04-10 23:40:09
End at: 2018-04-10 23:40:39
Local clock offset: -1.262 ms
Remote clock offset: -8.608 ms

Below is generated by plot.py at 2018-04-11 02:12:44
Datalink statistics
-- Total of 3 flows:
Average throughput: 76.94 Mbit/s
95th percentile per-packet one-way delay: 48.770 ms
Loss rate: 29.85%
-- Flow 1:
Average throughput: 59.41 Mbit/s
95th percentile per-packet one-way delay: 49.009 ms
Loss rate: 29.03%
-- Flow 2:
Average throughput: 24.32 Mbit/s
95th percentile per-packet one-way delay: 48.034 ms
Loss rate: 31.92%
-- Flow 3:
Average throughput: 8.22 Mbit/s
95th percentile per-packet one-way delay: 47.729 ms
Loss rate: 34.09%

Run 6: Report of Verus — Data Link

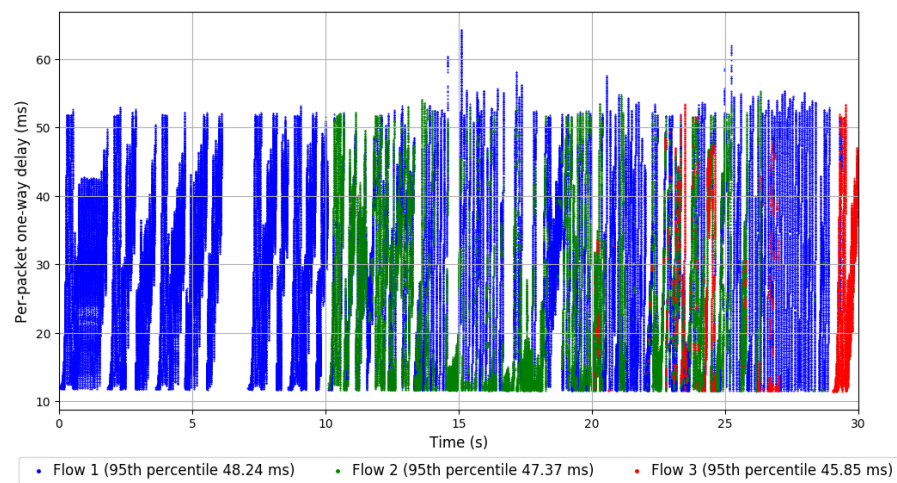
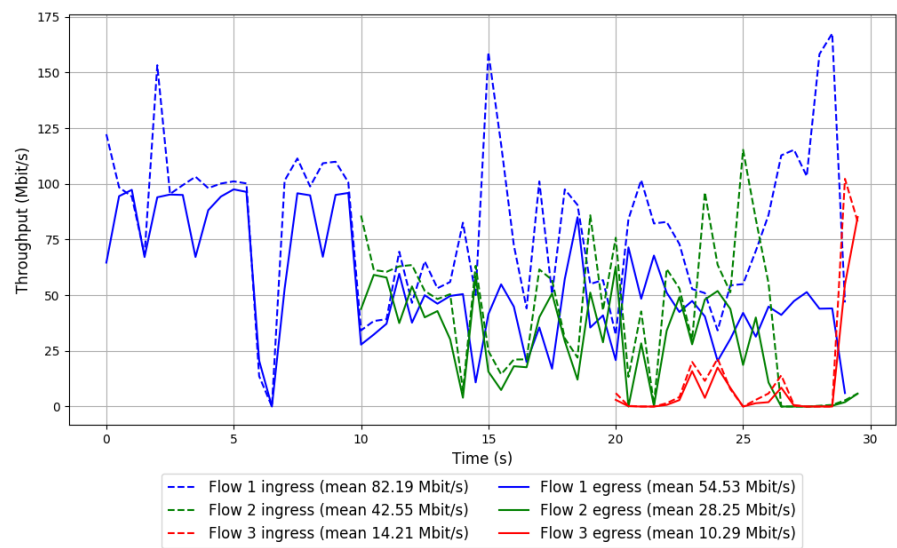


Run 7: Statistics of Verus

Start at: 2018-04-11 00:01:18
End at: 2018-04-11 00:01:48
Local clock offset: -0.414 ms
Remote clock offset: -3.043 ms

Below is generated by plot.py at 2018-04-11 02:13:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 75.57 Mbit/s
95th percentile per-packet one-way delay: 47.964 ms
Loss rate: 33.35%
-- Flow 1:
Average throughput: 54.53 Mbit/s
95th percentile per-packet one-way delay: 48.236 ms
Loss rate: 33.63%
-- Flow 2:
Average throughput: 28.25 Mbit/s
95th percentile per-packet one-way delay: 47.366 ms
Loss rate: 33.54%
-- Flow 3:
Average throughput: 10.29 Mbit/s
95th percentile per-packet one-way delay: 45.846 ms
Loss rate: 27.35%

Run 7: Report of Verus — Data Link

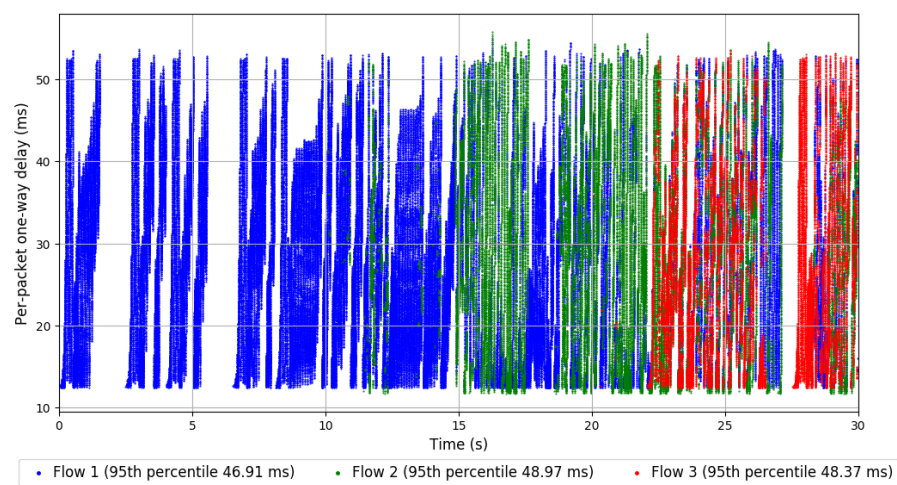
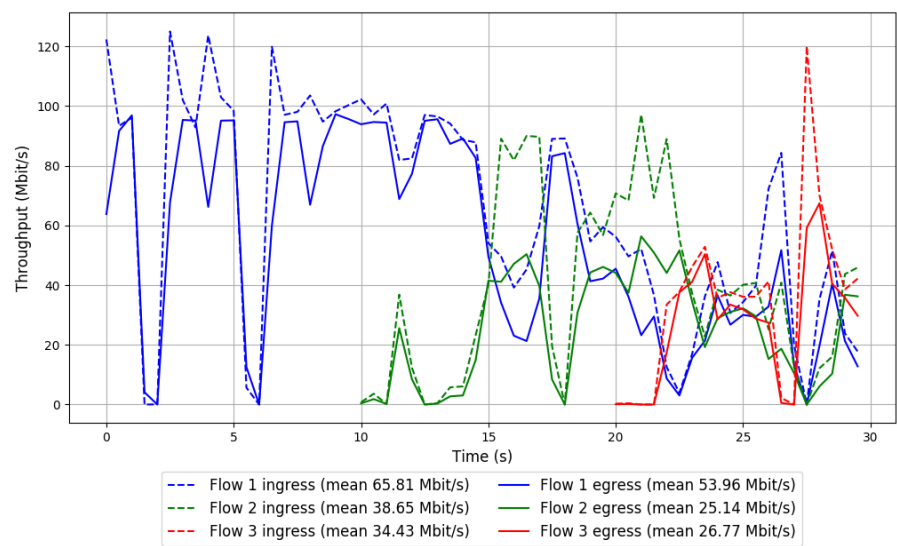


Run 8: Statistics of Verus

Start at: 2018-04-11 00:23:04
End at: 2018-04-11 00:23:34
Local clock offset: -1.052 ms
Remote clock offset: 2.851 ms

```
# Below is generated by plot.py at 2018-04-11 02:13:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 79.52 Mbit/s
95th percentile per-packet one-way delay: 47.658 ms
Loss rate: 22.75%
-- Flow 1:
Average throughput: 53.96 Mbit/s
95th percentile per-packet one-way delay: 46.911 ms
Loss rate: 18.01%
-- Flow 2:
Average throughput: 25.14 Mbit/s
95th percentile per-packet one-way delay: 48.973 ms
Loss rate: 35.02%
-- Flow 3:
Average throughput: 26.77 Mbit/s
95th percentile per-packet one-way delay: 48.373 ms
Loss rate: 22.40%
```


Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-04-11 00:44:27

End at: 2018-04-11 00:44:57

Local clock offset: 2.105 ms

Remote clock offset: 3.724 ms

Below is generated by plot.py at 2018-04-11 02:13:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 75.28 Mbit/s

95th percentile per-packet one-way delay: 49.884 ms

Loss rate: 40.92%

-- Flow 1:

Average throughput: 58.49 Mbit/s

95th percentile per-packet one-way delay: 49.875 ms

Loss rate: 40.63%

-- Flow 2:

Average throughput: 22.28 Mbit/s

95th percentile per-packet one-way delay: 50.297 ms

Loss rate: 42.47%

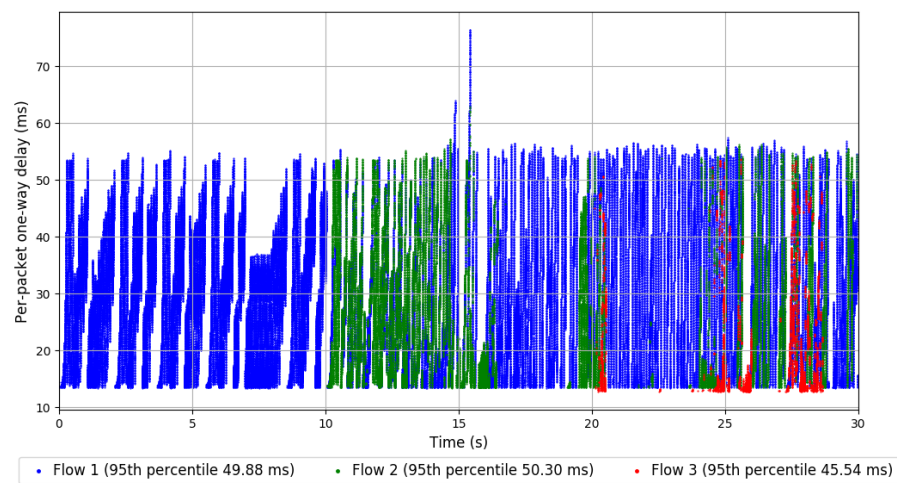
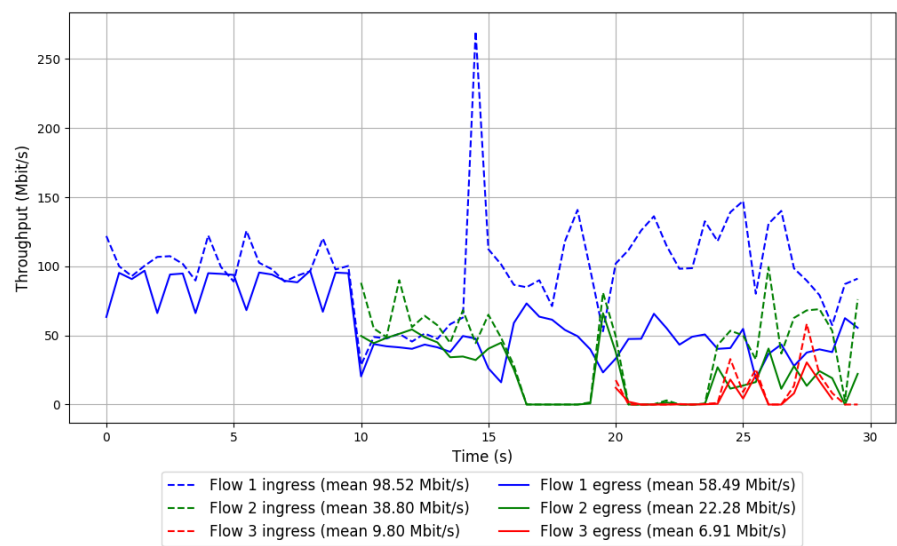
-- Flow 3:

Average throughput: 6.91 Mbit/s

95th percentile per-packet one-way delay: 45.541 ms

Loss rate: 37.33%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-04-11 01:06:03

End at: 2018-04-11 01:06:33

Local clock offset: 1.495 ms

Remote clock offset: 5.882 ms

Below is generated by plot.py at 2018-04-11 02:13:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 83.88 Mbit/s

95th percentile per-packet one-way delay: 47.551 ms

Loss rate: 25.65%

-- Flow 1:

Average throughput: 56.90 Mbit/s

95th percentile per-packet one-way delay: 47.736 ms

Loss rate: 27.43%

-- Flow 2:

Average throughput: 31.52 Mbit/s

95th percentile per-packet one-way delay: 46.872 ms

Loss rate: 21.04%

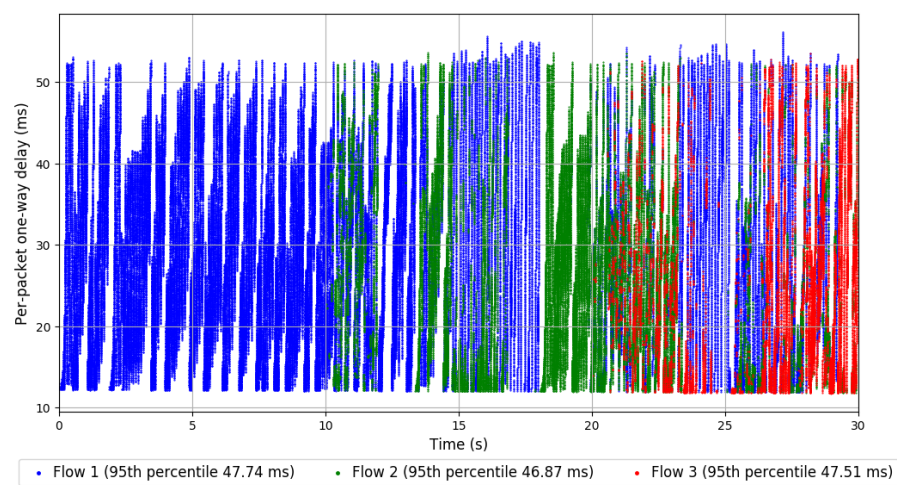
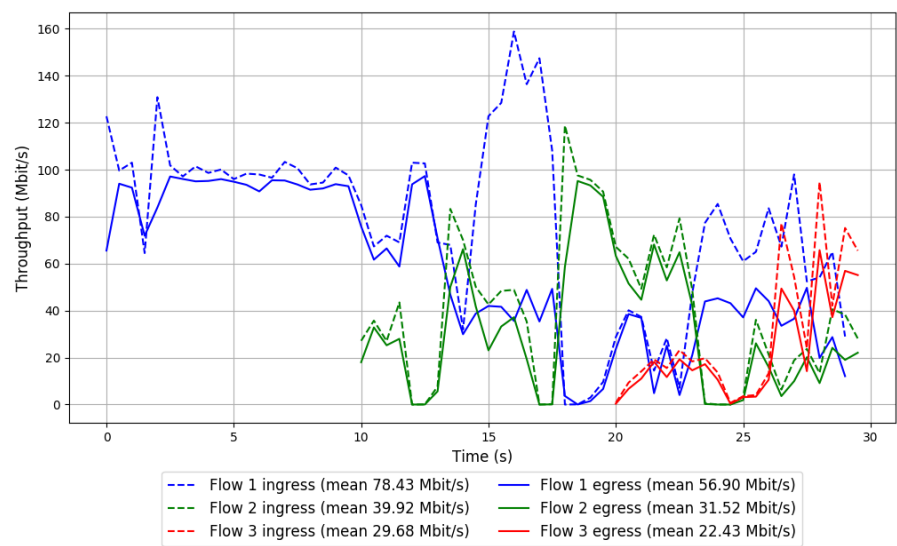
-- Flow 3:

Average throughput: 22.43 Mbit/s

95th percentile per-packet one-way delay: 47.510 ms

Loss rate: 24.31%

Run 10: Report of Verus — Data Link

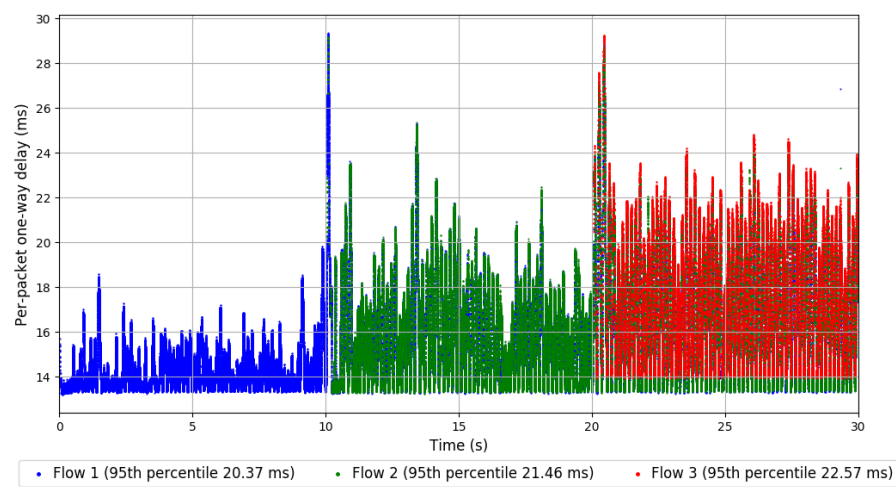
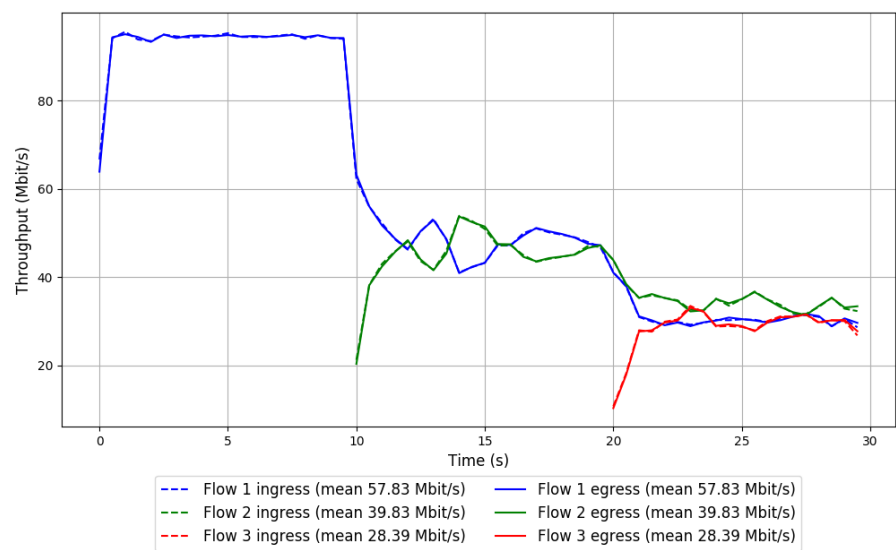


Run 1: Statistics of Copa

Start at: 2018-04-10 21:54:36
End at: 2018-04-10 21:55:06
Local clock offset: 0.584 ms
Remote clock offset: -0.553 ms

Below is generated by plot.py at 2018-04-11 02:14:44
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.78 Mbit/s
95th percentile per-packet one-way delay: 21.206 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 57.83 Mbit/s
95th percentile per-packet one-way delay: 20.371 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 39.83 Mbit/s
95th percentile per-packet one-way delay: 21.463 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 28.39 Mbit/s
95th percentile per-packet one-way delay: 22.566 ms
Loss rate: 0.00%

Run 1: Report of Copa — Data Link

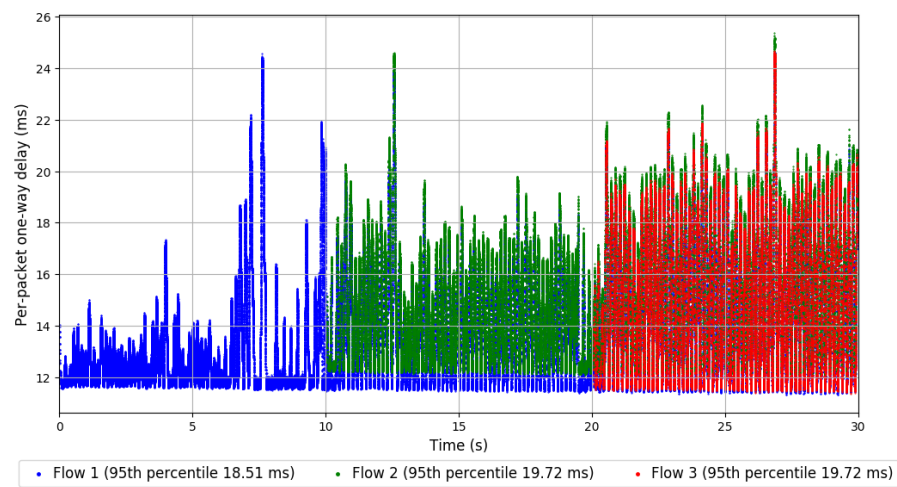
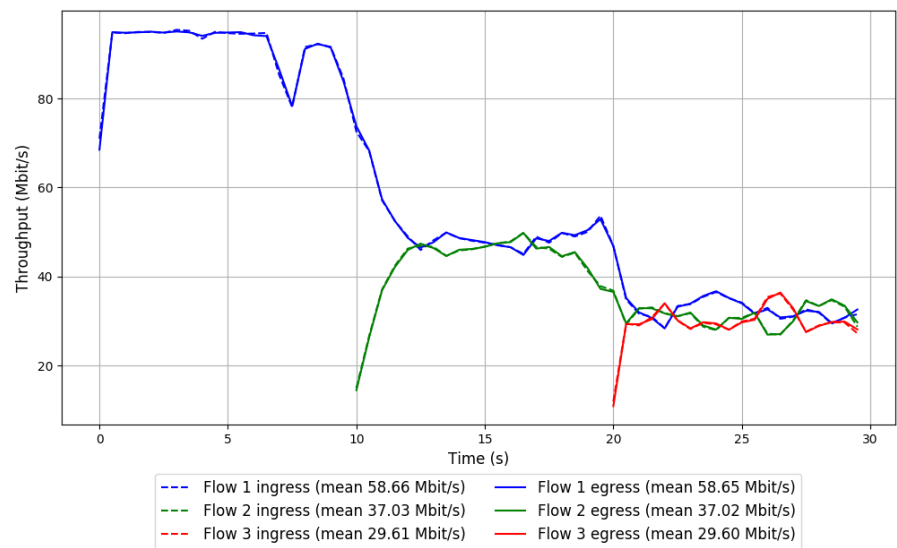


Run 2: Statistics of Copa

Start at: 2018-04-10 22:17:12
End at: 2018-04-10 22:17:42
Local clock offset: 0.316 ms
Remote clock offset: -0.016 ms

Below is generated by plot.py at 2018-04-11 02:14:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.13 Mbit/s
95th percentile per-packet one-way delay: 19.182 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 58.65 Mbit/s
95th percentile per-packet one-way delay: 18.508 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 37.02 Mbit/s
95th percentile per-packet one-way delay: 19.718 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 29.60 Mbit/s
95th percentile per-packet one-way delay: 19.716 ms
Loss rate: 0.00%

Run 2: Report of Copa — Data Link

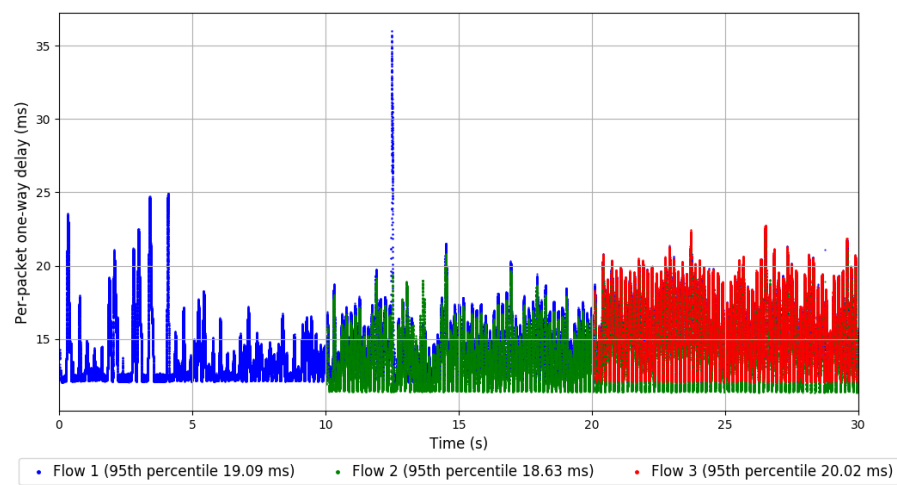
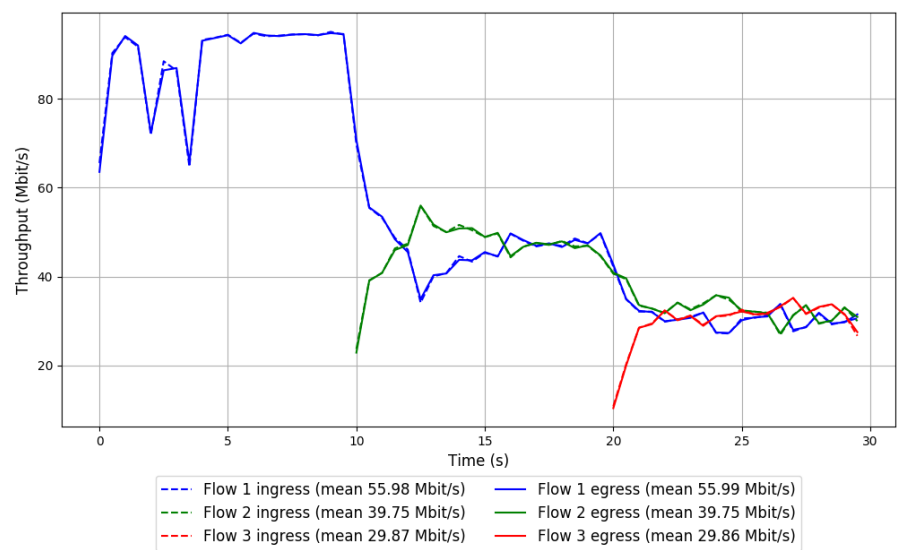


Run 3: Statistics of Copa

Start at: 2018-04-10 22:38:39
End at: 2018-04-10 22:39:09
Local clock offset: -0.215 ms
Remote clock offset: 4.597 ms

Below is generated by plot.py at 2018-04-11 02:15:19
Datalink statistics
-- Total of 3 flows:
Average throughput: 92.37 Mbit/s
95th percentile per-packet one-way delay: 19.193 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 55.99 Mbit/s
95th percentile per-packet one-way delay: 19.093 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 39.75 Mbit/s
95th percentile per-packet one-way delay: 18.633 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 29.86 Mbit/s
95th percentile per-packet one-way delay: 20.018 ms
Loss rate: 0.00%

Run 3: Report of Copa — Data Link

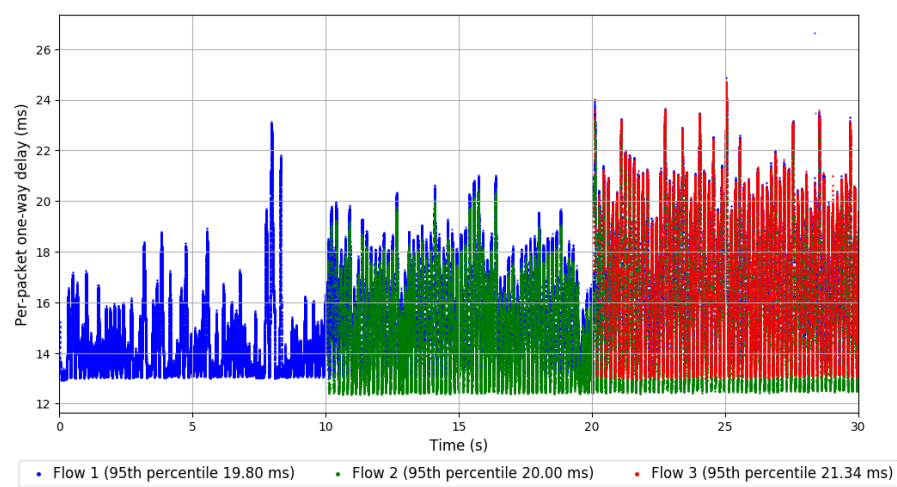
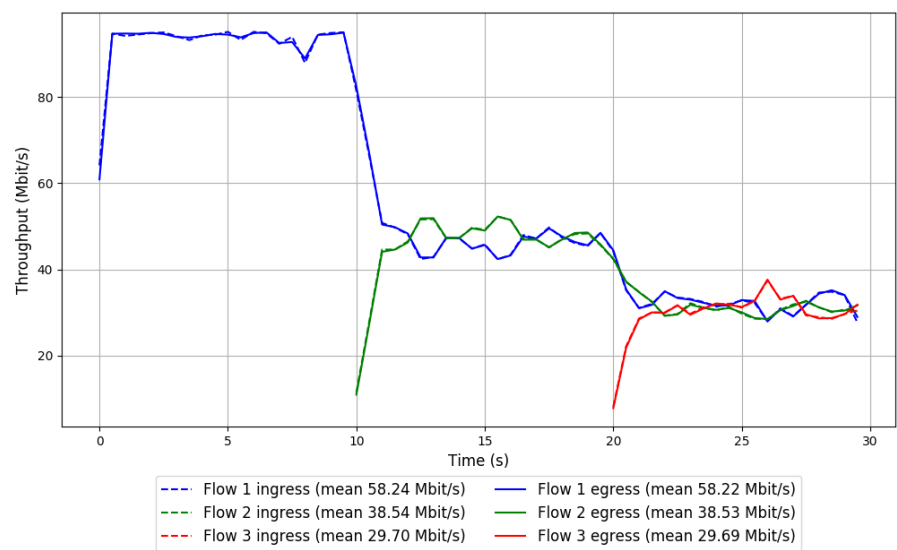


Run 4: Statistics of Copa

Start at: 2018-04-10 23:00:05
End at: 2018-04-10 23:00:35
Local clock offset: 1.236 ms
Remote clock offset: -3.174 ms

Below is generated by plot.py at 2018-04-11 02:15:23
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.74 Mbit/s
95th percentile per-packet one-way delay: 20.241 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 58.22 Mbit/s
95th percentile per-packet one-way delay: 19.804 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 38.53 Mbit/s
95th percentile per-packet one-way delay: 20.001 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 29.69 Mbit/s
95th percentile per-packet one-way delay: 21.340 ms
Loss rate: 0.00%

Run 4: Report of Copa — Data Link

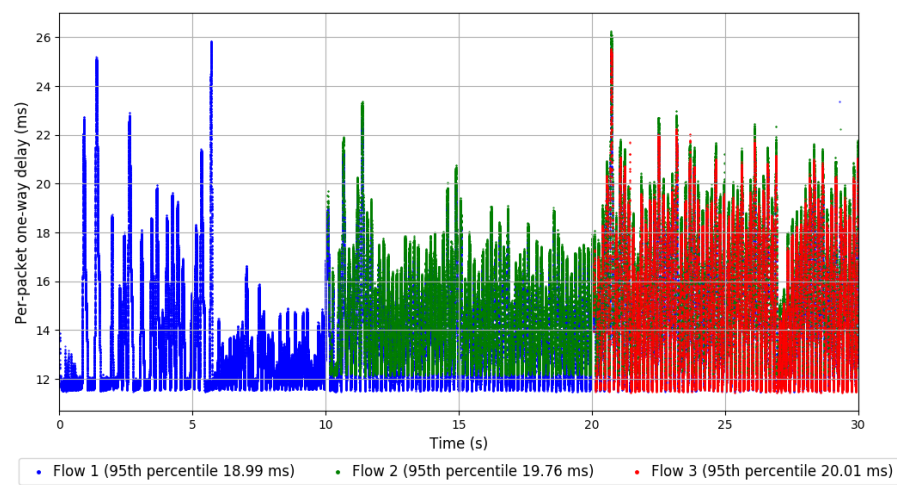
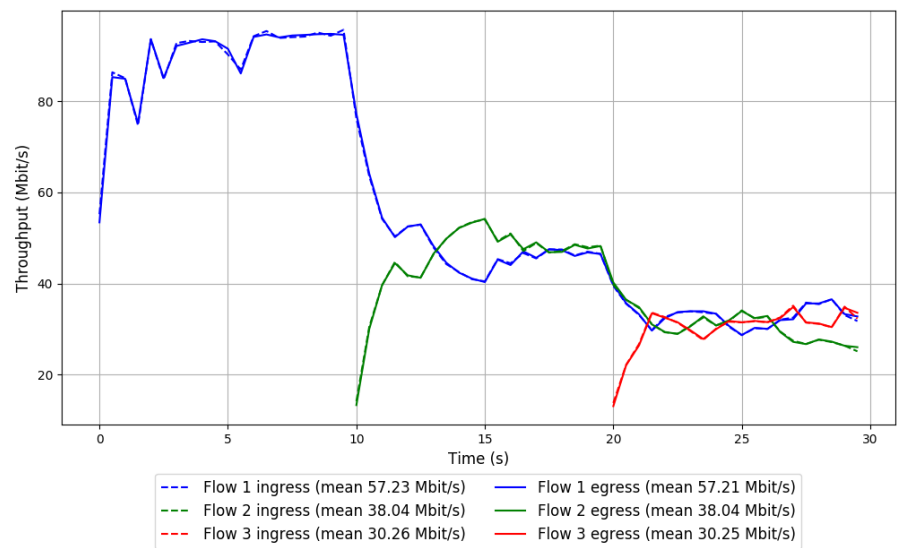


Run 5: Statistics of Copa

Start at: 2018-04-10 23:21:15
End at: 2018-04-10 23:21:45
Local clock offset: 0.814 ms
Remote clock offset: -7.071 ms

Below is generated by plot.py at 2018-04-11 02:15:34
Datalink statistics
-- Total of 3 flows:
Average throughput: 92.58 Mbit/s
95th percentile per-packet one-way delay: 19.417 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 57.21 Mbit/s
95th percentile per-packet one-way delay: 18.993 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 38.04 Mbit/s
95th percentile per-packet one-way delay: 19.756 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 30.25 Mbit/s
95th percentile per-packet one-way delay: 20.010 ms
Loss rate: 0.00%

Run 5: Report of Copa — Data Link

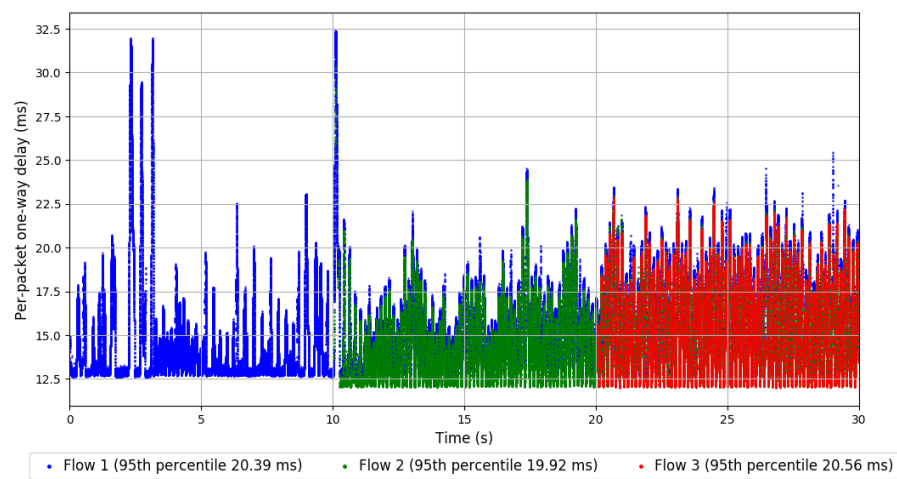
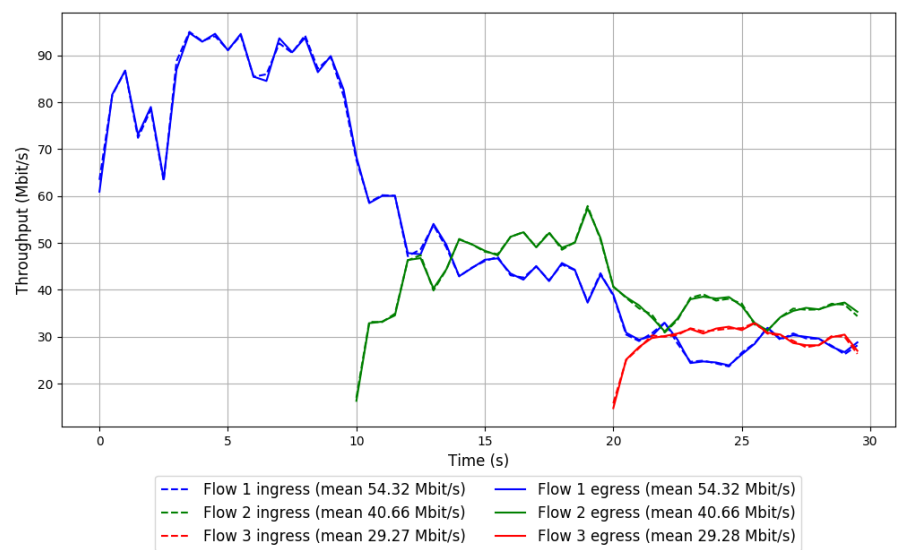


Run 6: Statistics of Copa

Start at: 2018-04-10 23:42:30
End at: 2018-04-10 23:43:00
Local clock offset: -0.937 ms
Remote clock offset: -8.498 ms

Below is generated by plot.py at 2018-04-11 02:15:34
Datalink statistics
-- Total of 3 flows:
Average throughput: 91.12 Mbit/s
95th percentile per-packet one-way delay: 20.253 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 54.32 Mbit/s
95th percentile per-packet one-way delay: 20.395 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 40.66 Mbit/s
95th percentile per-packet one-way delay: 19.916 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 29.28 Mbit/s
95th percentile per-packet one-way delay: 20.561 ms
Loss rate: 0.00%

Run 6: Report of Copa — Data Link

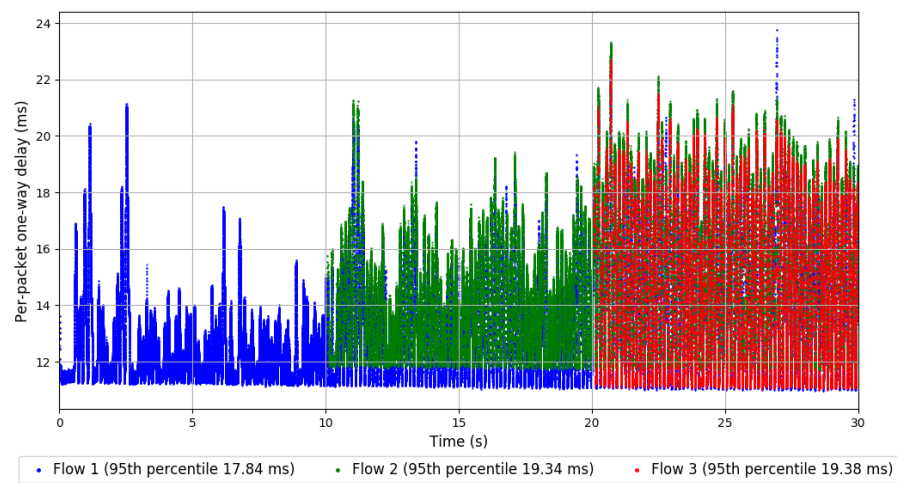
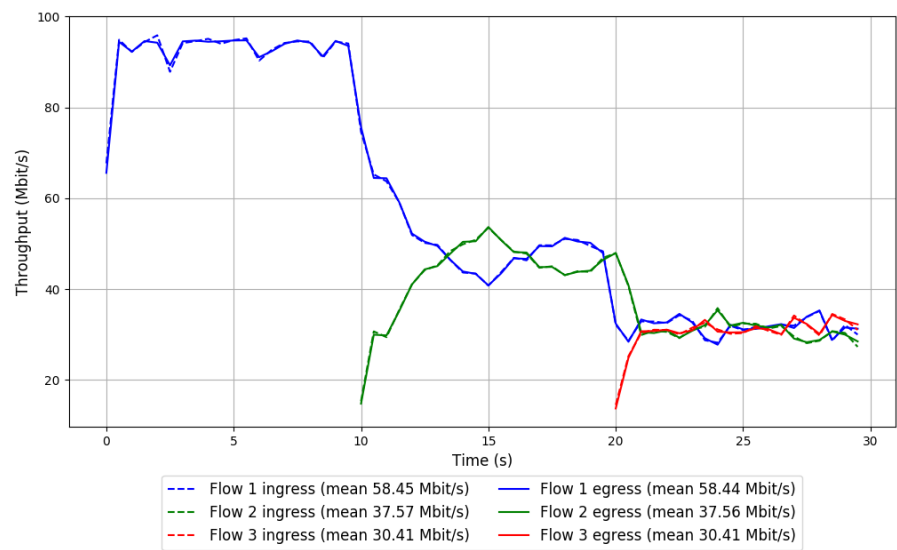


Run 7: Statistics of Copa

Start at: 2018-04-11 00:03:43
End at: 2018-04-11 00:04:13
Local clock offset: -1.253 ms
Remote clock offset: -3.062 ms

Below is generated by plot.py at 2018-04-11 02:15:46
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.53 Mbit/s
95th percentile per-packet one-way delay: 18.720 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 58.44 Mbit/s
95th percentile per-packet one-way delay: 17.845 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 37.56 Mbit/s
95th percentile per-packet one-way delay: 19.337 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 30.41 Mbit/s
95th percentile per-packet one-way delay: 19.384 ms
Loss rate: 0.00%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-04-11 00:25:26

End at: 2018-04-11 00:25:56

Local clock offset: -0.389 ms

Remote clock offset: 3.016 ms

Below is generated by plot.py at 2018-04-11 02:15:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.83 Mbit/s

95th percentile per-packet one-way delay: 18.513 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 57.94 Mbit/s

95th percentile per-packet one-way delay: 17.715 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 39.26 Mbit/s

95th percentile per-packet one-way delay: 18.792 ms

Loss rate: 0.00%

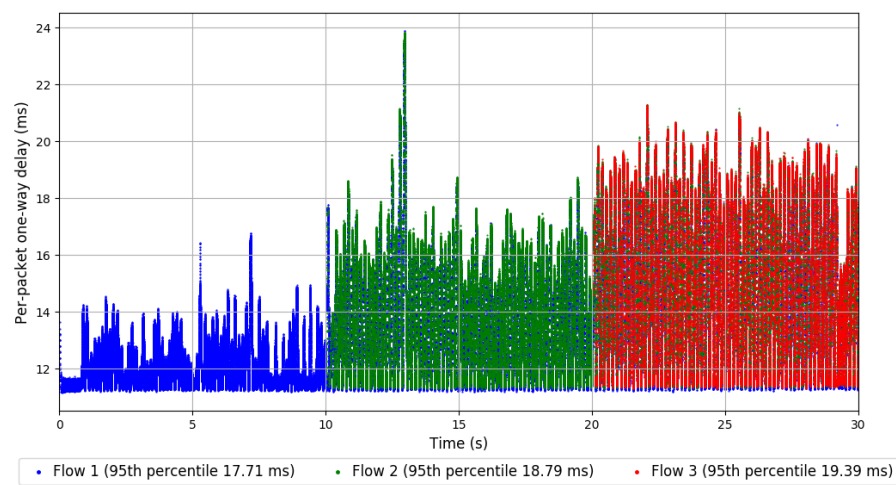
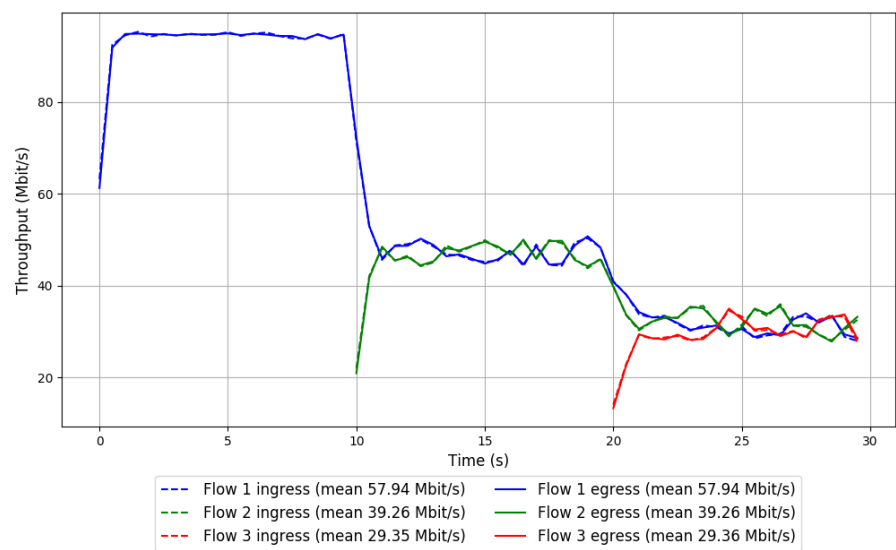
-- Flow 3:

Average throughput: 29.36 Mbit/s

95th percentile per-packet one-way delay: 19.385 ms

Loss rate: 0.00%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-04-11 00:47:01

End at: 2018-04-11 00:47:31

Local clock offset: 2.11 ms

Remote clock offset: 3.5 ms

Below is generated by plot.py at 2018-04-11 02:17:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.74 Mbit/s

95th percentile per-packet one-way delay: 20.431 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 56.74 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 39.48 Mbit/s

95th percentile per-packet one-way delay: 20.509 ms

Loss rate: 0.00%

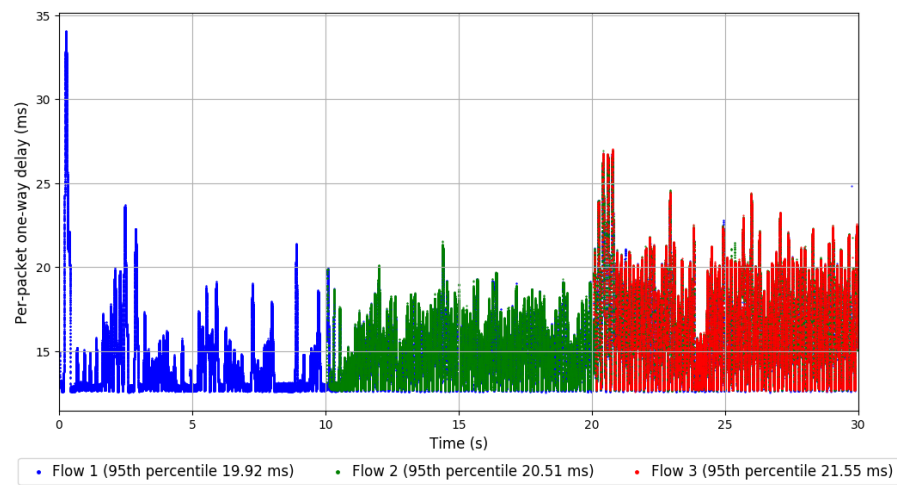
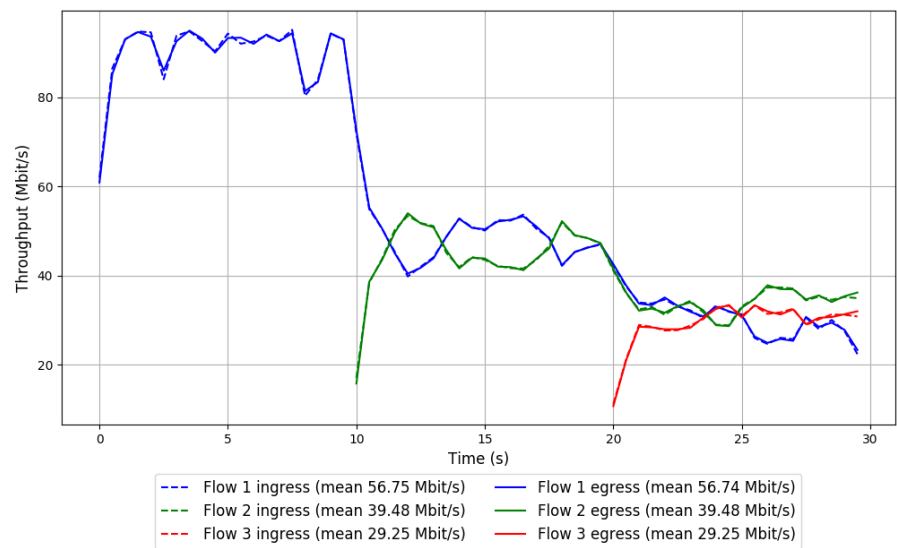
-- Flow 3:

Average throughput: 29.25 Mbit/s

95th percentile per-packet one-way delay: 21.552 ms

Loss rate: 0.00%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-04-11 01:08:27

End at: 2018-04-11 01:08:57

Local clock offset: 0.959 ms

Remote clock offset: 7.682 ms

Below is generated by plot.py at 2018-04-11 02:17:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.70 Mbit/s

95th percentile per-packet one-way delay: 20.689 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 58.01 Mbit/s

95th percentile per-packet one-way delay: 20.409 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 38.93 Mbit/s

95th percentile per-packet one-way delay: 20.740 ms

Loss rate: 0.00%

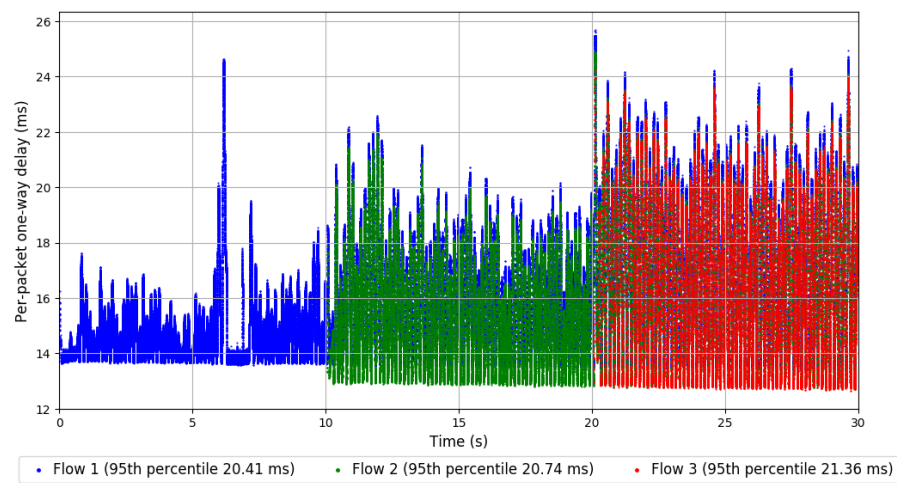
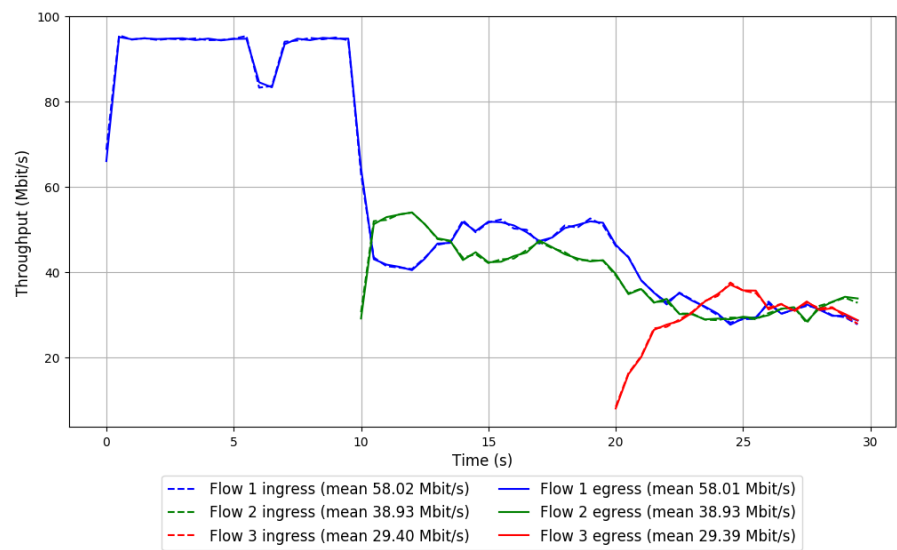
-- Flow 3:

Average throughput: 29.39 Mbit/s

95th percentile per-packet one-way delay: 21.358 ms

Loss rate: 0.00%

Run 10: Report of Copa — Data Link

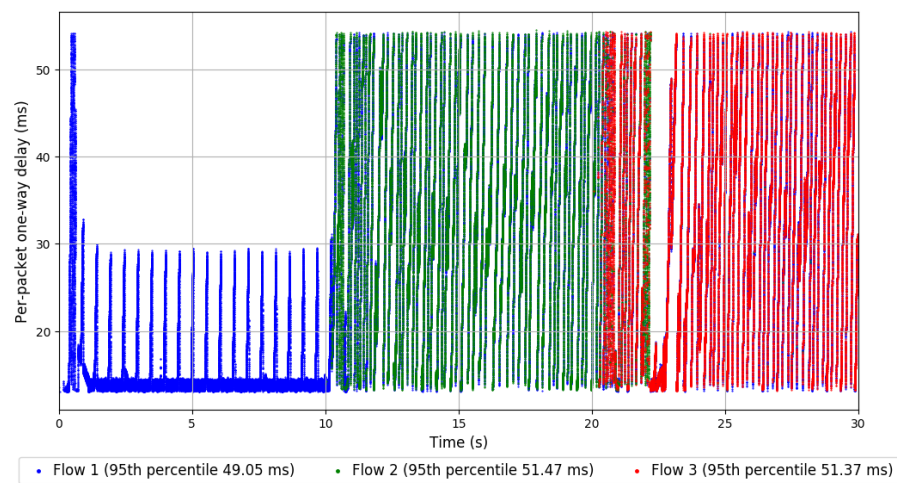
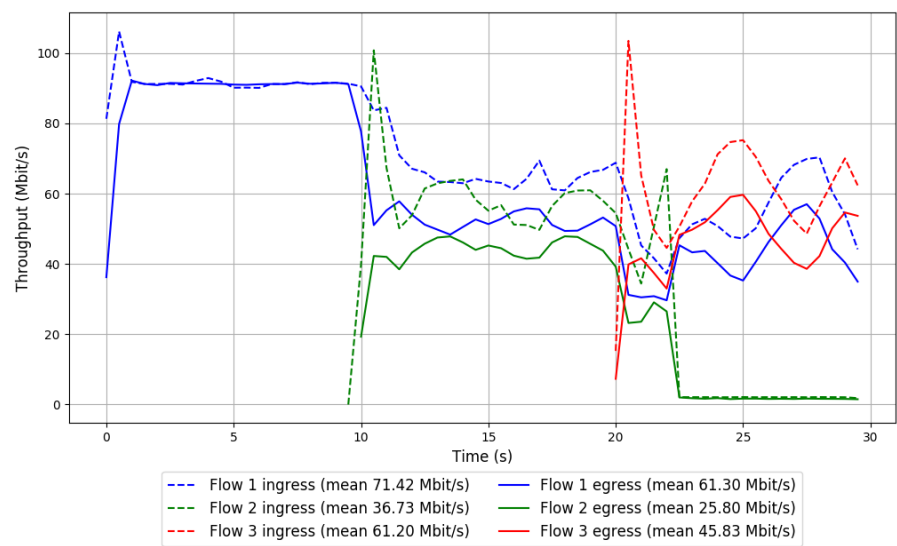


```
Run 1: Statistics of FillP

Start at: 2018-04-10 21:55:50
End at: 2018-04-10 21:56:20
Local clock offset: 0.417 ms
Remote clock offset: -0.99 ms

# Below is generated by plot.py at 2018-04-11 02:17:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.69 Mbit/s
95th percentile per-packet one-way delay: 50.207 ms
Loss rate: 19.31%
-- Flow 1:
Average throughput: 61.30 Mbit/s
95th percentile per-packet one-way delay: 49.048 ms
Loss rate: 14.11%
-- Flow 2:
Average throughput: 25.80 Mbit/s
95th percentile per-packet one-way delay: 51.470 ms
Loss rate: 29.68%
-- Flow 3:
Average throughput: 45.83 Mbit/s
95th percentile per-packet one-way delay: 51.365 ms
Loss rate: 25.11%
```

Run 1: Report of FillP — Data Link

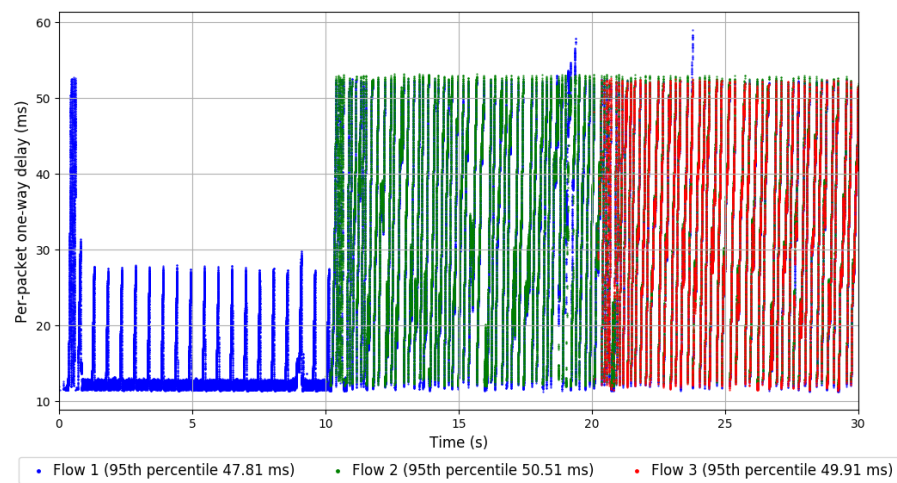
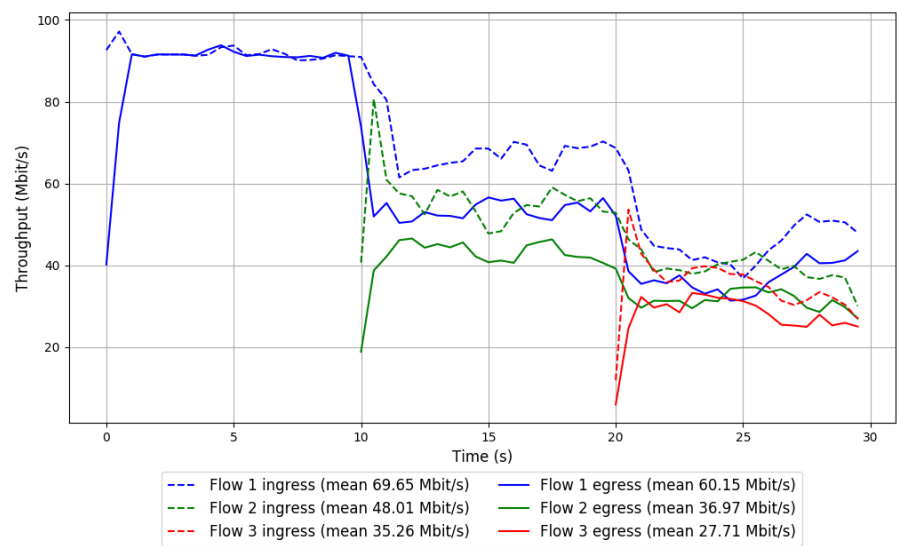


```
Run 2: Statistics of FillP

Start at: 2018-04-10 22:18:27
End at: 2018-04-10 22:18:57
Local clock offset: 0.536 ms
Remote clock offset: 0.585 ms

# Below is generated by plot.py at 2018-04-11 02:17:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.96 Mbit/s
95th percentile per-packet one-way delay: 49.143 ms
Loss rate: 16.97%
-- Flow 1:
Average throughput: 60.15 Mbit/s
95th percentile per-packet one-way delay: 47.813 ms
Loss rate: 13.52%
-- Flow 2:
Average throughput: 36.97 Mbit/s
95th percentile per-packet one-way delay: 50.514 ms
Loss rate: 22.87%
-- Flow 3:
Average throughput: 27.71 Mbit/s
95th percentile per-packet one-way delay: 49.908 ms
Loss rate: 21.38%
```

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-04-10 22:39:54

End at: 2018-04-10 22:40:24

Local clock offset: 0.325 ms

Remote clock offset: 5.856 ms

Below is generated by plot.py at 2018-04-11 02:17:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.04 Mbit/s

95th percentile per-packet one-way delay: 47.733 ms

Loss rate: 14.41%

-- Flow 1:

Average throughput: 58.00 Mbit/s

95th percentile per-packet one-way delay: 45.588 ms

Loss rate: 10.13%

-- Flow 2:

Average throughput: 38.68 Mbit/s

95th percentile per-packet one-way delay: 48.971 ms

Loss rate: 19.27%

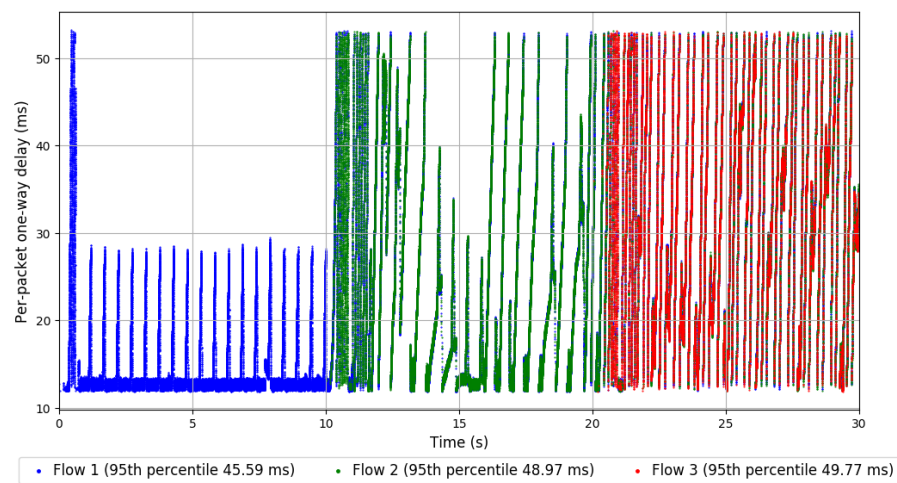
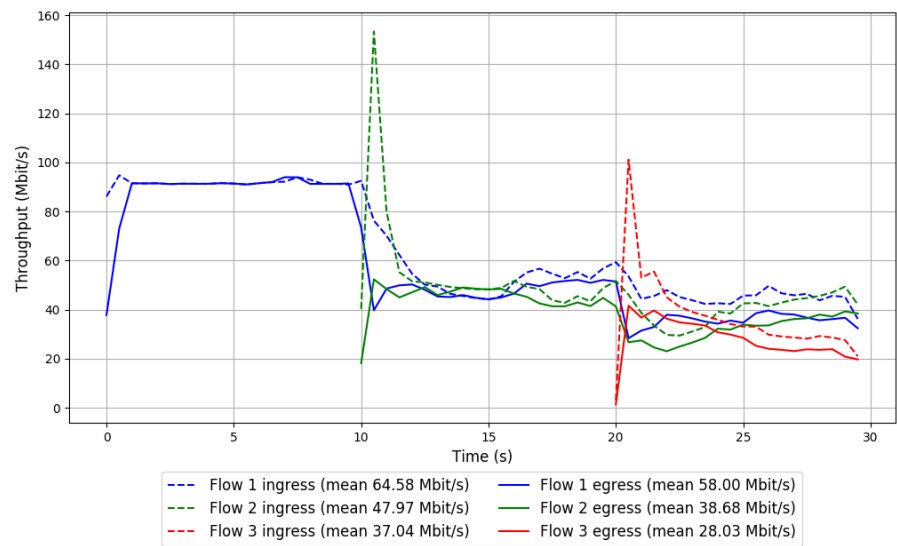
-- Flow 3:

Average throughput: 28.03 Mbit/s

95th percentile per-packet one-way delay: 49.765 ms

Loss rate: 24.31%

Run 3: Report of FillP — Data Link

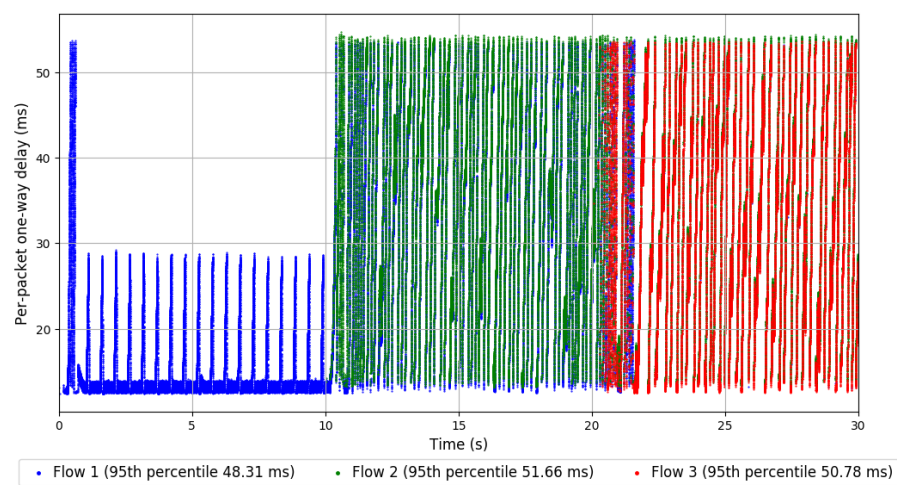
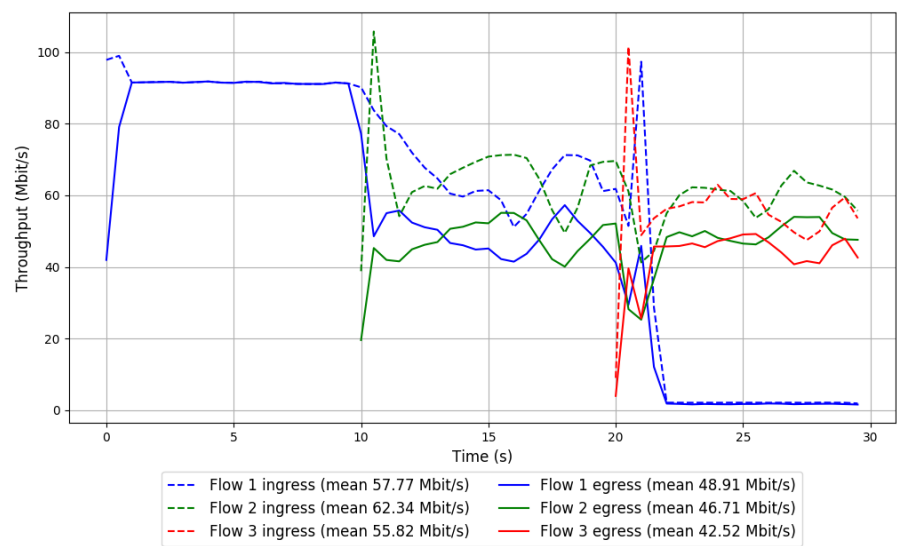


Run 4: Statistics of FillP

Start at: 2018-04-10 23:01:19
End at: 2018-04-10 23:01:49
Local clock offset: 1.453 ms
Remote clock offset: -3.171 ms

Below is generated by plot.py at 2018-04-11 02:17:41
Datalink statistics
-- Total of 3 flows:
Average throughput: 94.08 Mbit/s
95th percentile per-packet one-way delay: 50.410 ms
Loss rate: 20.07%
-- Flow 1:
Average throughput: 48.91 Mbit/s
95th percentile per-packet one-way delay: 48.310 ms
Loss rate: 15.30%
-- Flow 2:
Average throughput: 46.71 Mbit/s
95th percentile per-packet one-way delay: 51.658 ms
Loss rate: 25.02%
-- Flow 3:
Average throughput: 42.52 Mbit/s
95th percentile per-packet one-way delay: 50.778 ms
Loss rate: 23.89%

Run 4: Report of FillP — Data Link

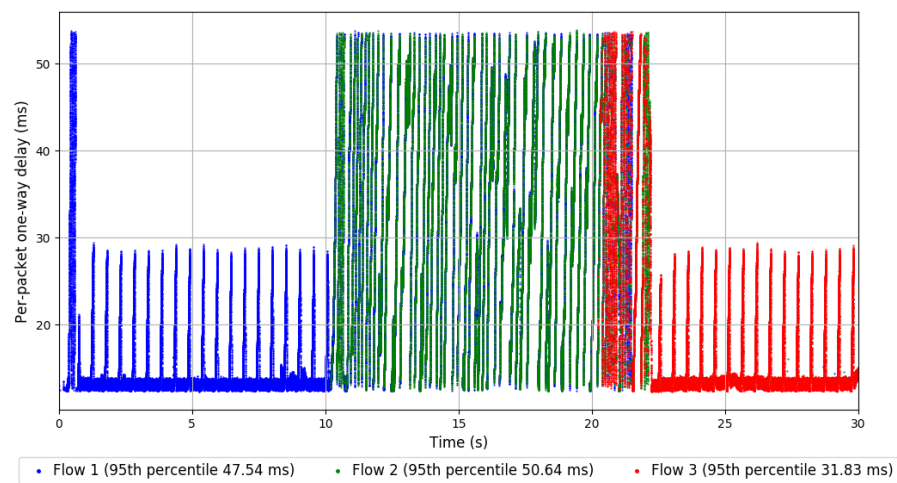
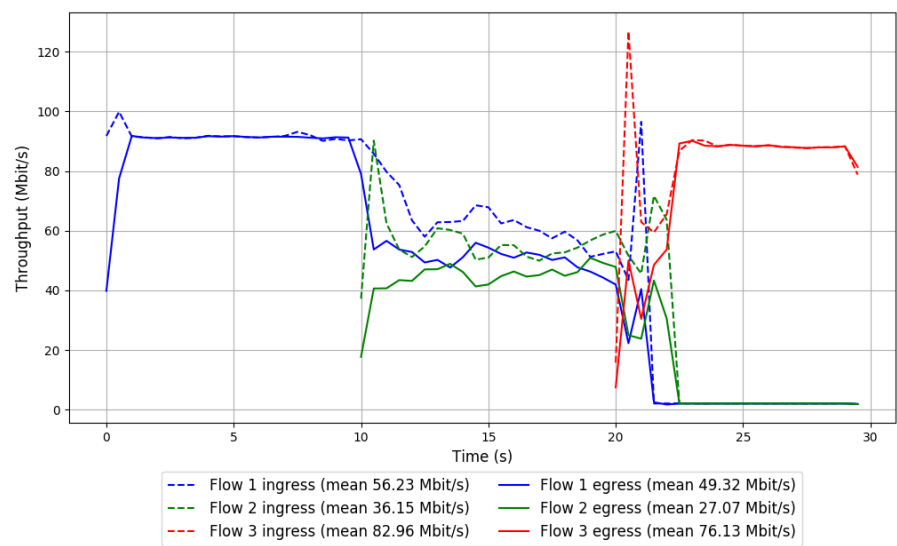


Run 5: Statistics of FillP

Start at: 2018-04-10 23:22:30
End at: 2018-04-10 23:23:00
Local clock offset: 0.64 ms
Remote clock offset: -6.834 ms

Below is generated by plot.py at 2018-04-11 02:17:41
Datalink statistics
-- Total of 3 flows:
Average throughput: 92.54 Mbit/s
95th percentile per-packet one-way delay: 48.024 ms
Loss rate: 14.14%
-- Flow 1:
Average throughput: 49.32 Mbit/s
95th percentile per-packet one-way delay: 47.544 ms
Loss rate: 12.28%
-- Flow 2:
Average throughput: 27.07 Mbit/s
95th percentile per-packet one-way delay: 50.644 ms
Loss rate: 25.12%
-- Flow 3:
Average throughput: 76.13 Mbit/s
95th percentile per-packet one-way delay: 31.827 ms
Loss rate: 8.33%

Run 5: Report of FillP — Data Link

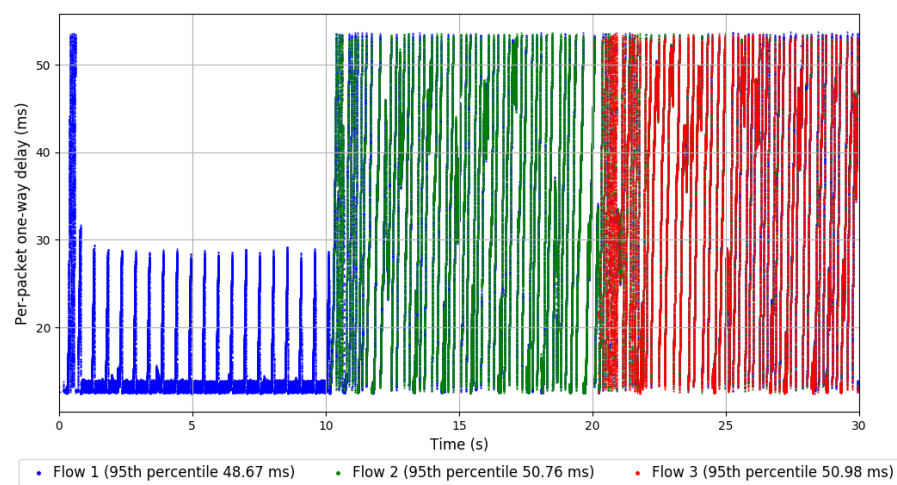
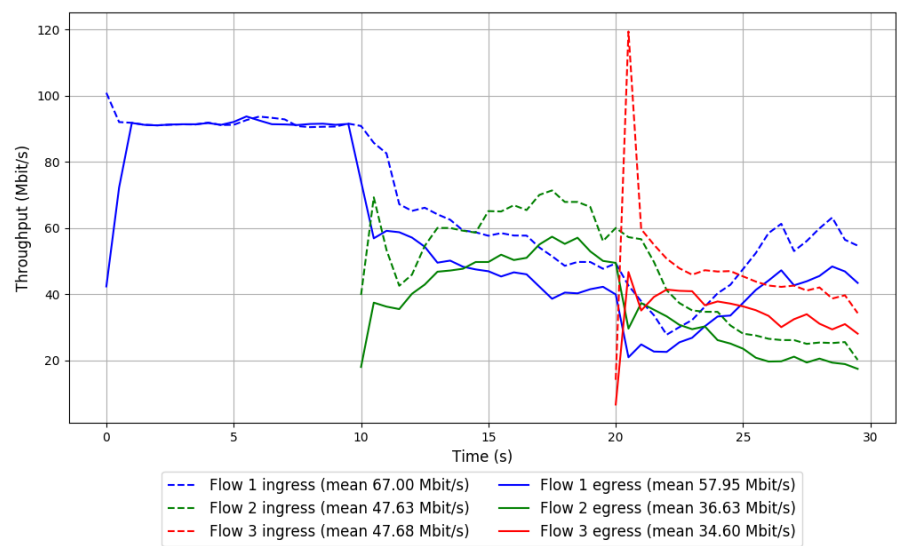


Run 6: Statistics of FillP

Start at: 2018-04-10 23:43:43
End at: 2018-04-10 23:44:13
Local clock offset: -1.528 ms
Remote clock offset: -8.649 ms

Below is generated by plot.py at 2018-04-11 02:17:41
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.75 Mbit/s
95th percentile per-packet one-way delay: 49.821 ms
Loss rate: 18.12%
-- Flow 1:
Average throughput: 57.95 Mbit/s
95th percentile per-packet one-way delay: 48.669 ms
Loss rate: 13.50%
-- Flow 2:
Average throughput: 36.63 Mbit/s
95th percentile per-packet one-way delay: 50.759 ms
Loss rate: 23.10%
-- Flow 3:
Average throughput: 34.60 Mbit/s
95th percentile per-packet one-way delay: 50.976 ms
Loss rate: 27.73%

Run 6: Report of FillP — Data Link

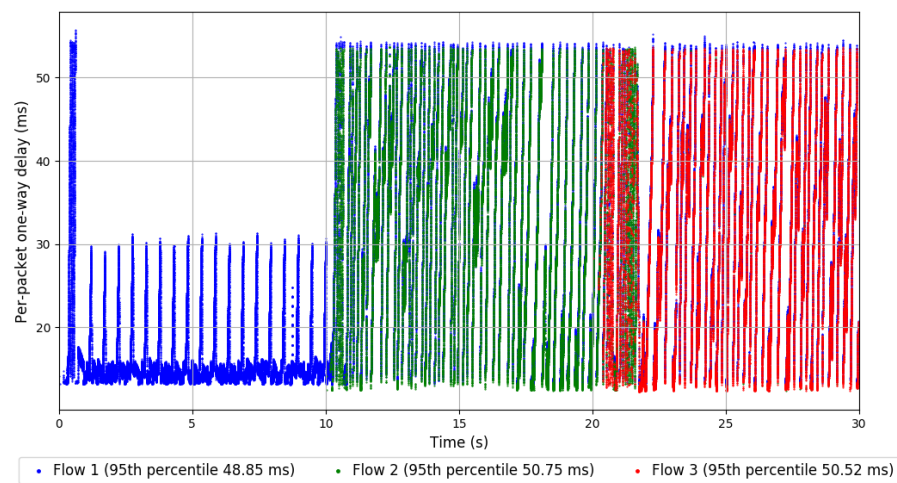
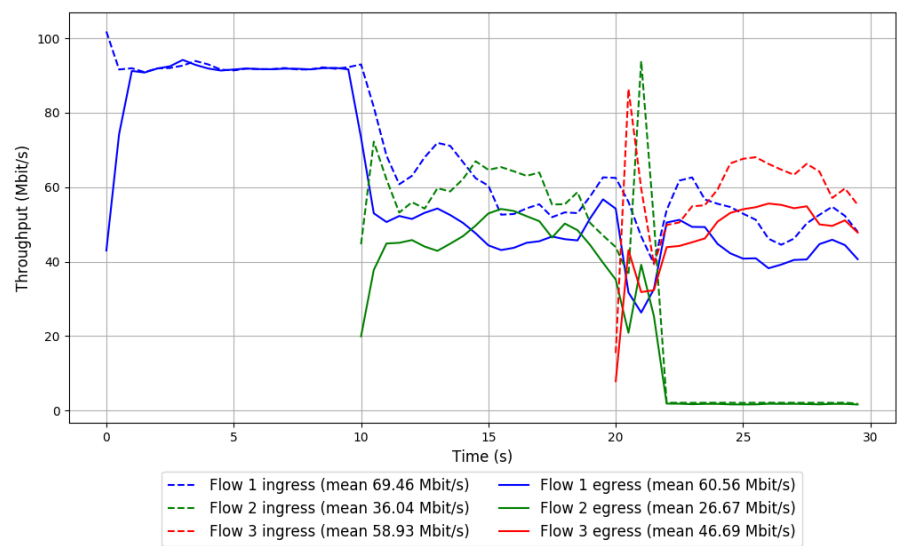


Run 7: Statistics of FillP

Start at: 2018-04-11 00:05:01
End at: 2018-04-11 00:05:31
Local clock offset: -0.705 ms
Remote clock offset: -0.568 ms

Below is generated by plot.py at 2018-04-11 02:18:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.77 Mbit/s
95th percentile per-packet one-way delay: 49.757 ms
Loss rate: 16.98%
-- Flow 1:
Average throughput: 60.56 Mbit/s
95th percentile per-packet one-way delay: 48.848 ms
Loss rate: 12.80%
-- Flow 2:
Average throughput: 26.67 Mbit/s
95th percentile per-packet one-way delay: 50.750 ms
Loss rate: 25.98%
-- Flow 3:
Average throughput: 46.69 Mbit/s
95th percentile per-packet one-way delay: 50.515 ms
Loss rate: 20.83%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-04-11 00:26:41

End at: 2018-04-11 00:27:11

Local clock offset: -0.832 ms

Remote clock offset: 4.287 ms

Below is generated by plot.py at 2018-04-11 02:18:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.94 Mbit/s

95th percentile per-packet one-way delay: 50.631 ms

Loss rate: 18.69%

-- Flow 1:

Average throughput: 54.32 Mbit/s

95th percentile per-packet one-way delay: 49.142 ms

Loss rate: 13.37%

-- Flow 2:

Average throughput: 41.11 Mbit/s

95th percentile per-packet one-way delay: 51.507 ms

Loss rate: 24.02%

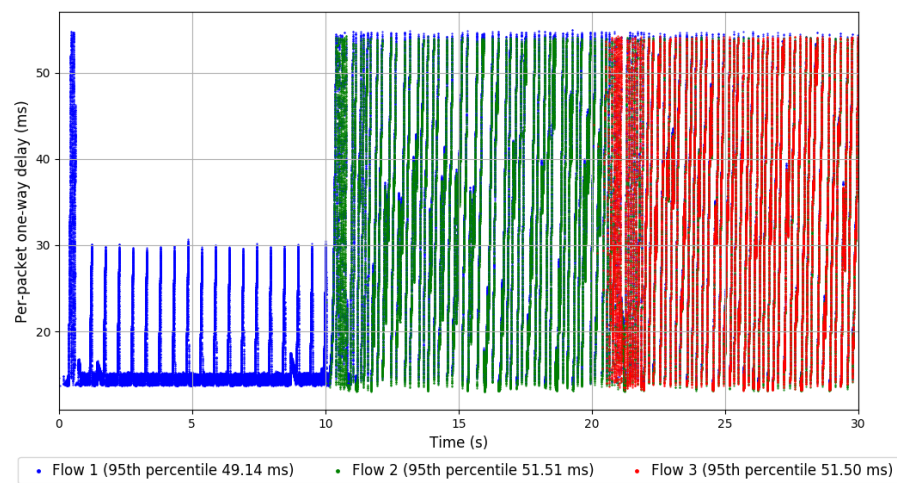
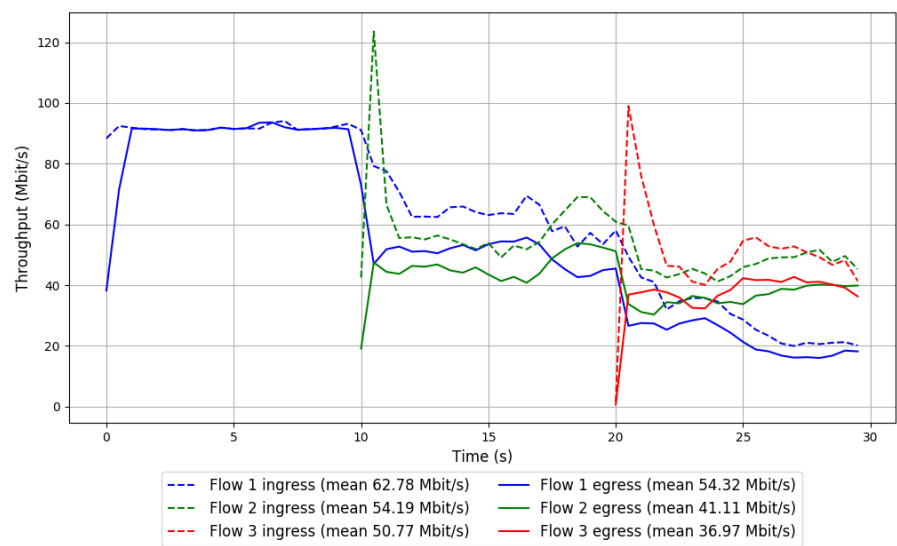
-- Flow 3:

Average throughput: 36.97 Mbit/s

95th percentile per-packet one-way delay: 51.502 ms

Loss rate: 27.12%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-04-11 00:48:19

End at: 2018-04-11 00:48:49

Local clock offset: 1.325 ms

Remote clock offset: 2.97 ms

Below is generated by plot.py at 2018-04-11 02:18:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.66 Mbit/s

95th percentile per-packet one-way delay: 50.114 ms

Loss rate: 16.54%

-- Flow 1:

Average throughput: 61.46 Mbit/s

95th percentile per-packet one-way delay: 48.933 ms

Loss rate: 12.83%

-- Flow 2:

Average throughput: 26.87 Mbit/s

95th percentile per-packet one-way delay: 51.141 ms

Loss rate: 25.78%

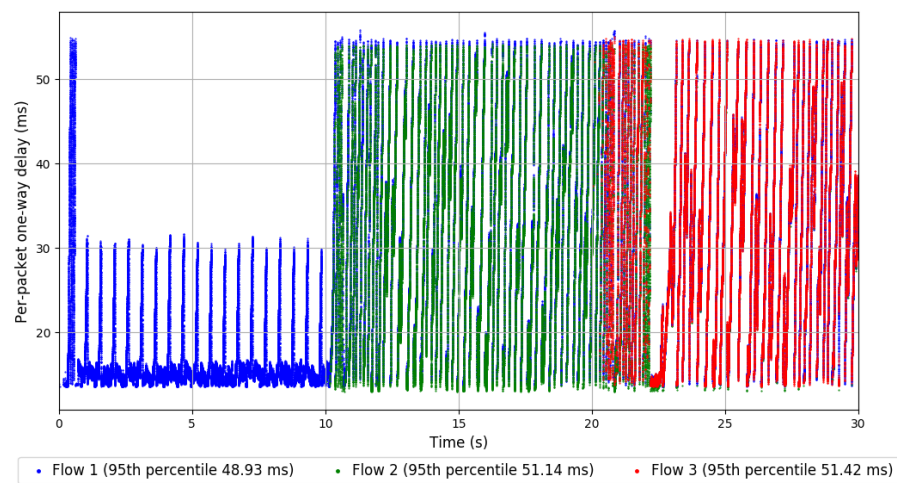
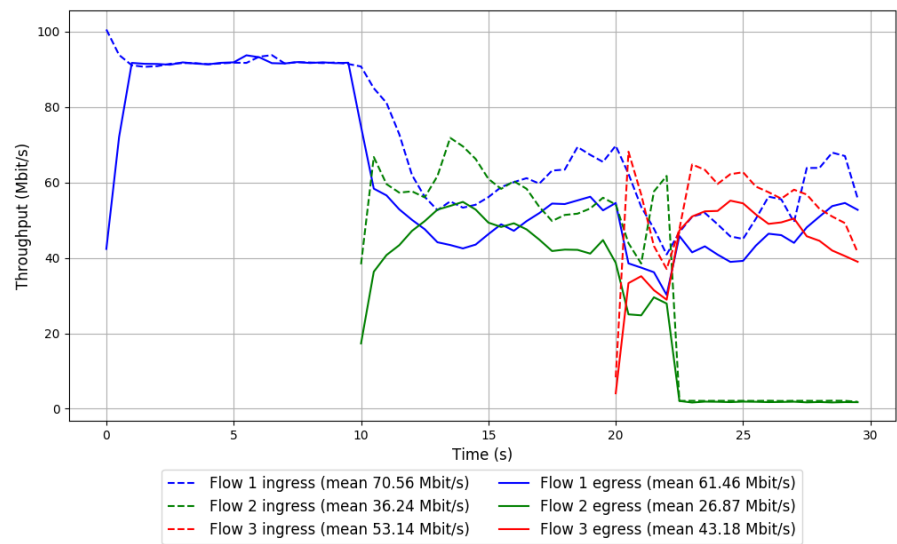
-- Flow 3:

Average throughput: 43.18 Mbit/s

95th percentile per-packet one-way delay: 51.424 ms

Loss rate: 18.73%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-04-11 01:09:44

End at: 2018-04-11 01:10:14

Local clock offset: 1.033 ms

Remote clock offset: 6.707 ms

Below is generated by plot.py at 2018-04-11 02:18:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.91 Mbit/s

95th percentile per-packet one-way delay: 47.848 ms

Loss rate: 17.93%

-- Flow 1:

Average throughput: 51.14 Mbit/s

95th percentile per-packet one-way delay: 47.408 ms

Loss rate: 16.13%

-- Flow 2:

Average throughput: 29.17 Mbit/s

95th percentile per-packet one-way delay: 49.779 ms

Loss rate: 29.14%

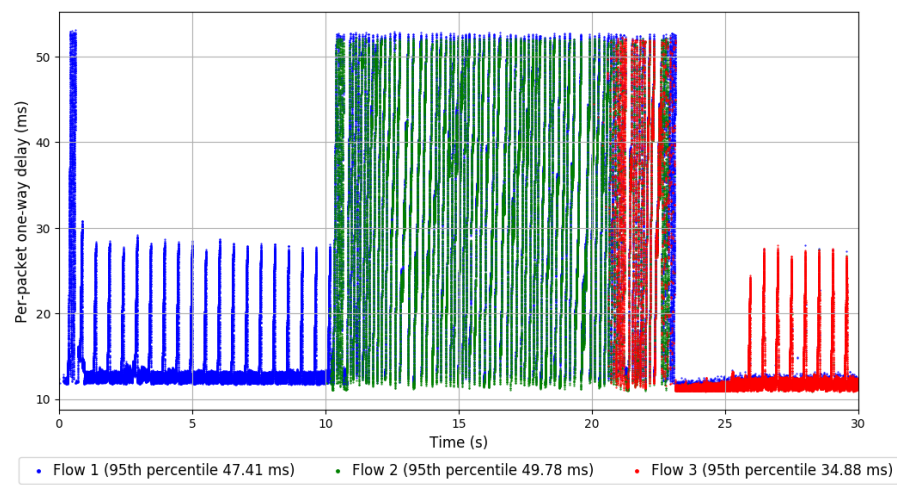
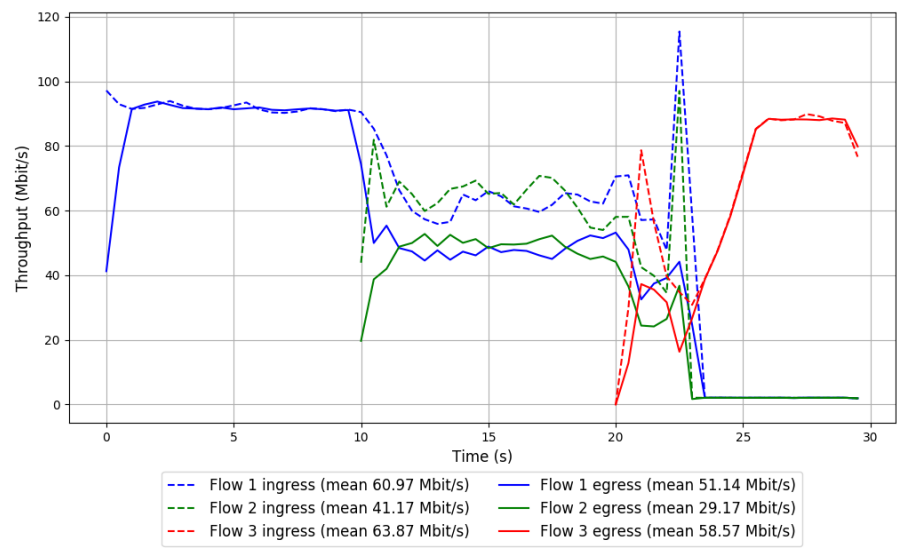
-- Flow 3:

Average throughput: 58.57 Mbit/s

95th percentile per-packet one-way delay: 34.877 ms

Loss rate: 8.60%

Run 10: Report of FillP — Data Link

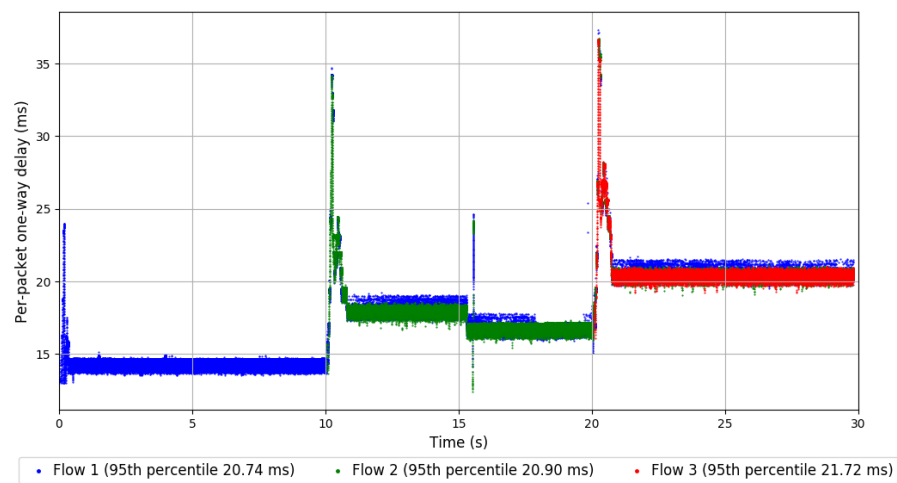
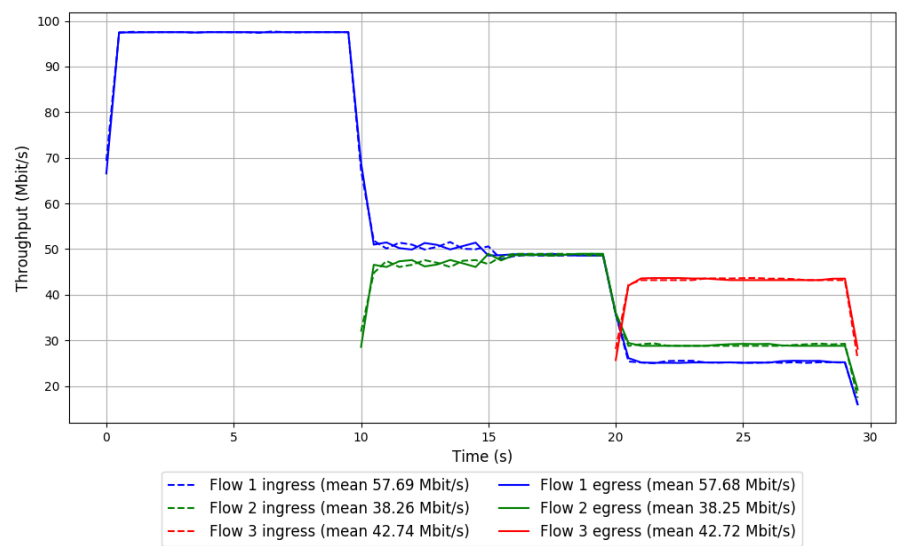


```
Run 1: Statistics of Indigo-1-32

Start at: 2018-04-10 22:06:52
End at: 2018-04-10 22:07:22
Local clock offset: 0.198 ms
Remote clock offset: -2.927 ms

# Below is generated by plot.py at 2018-04-11 02:18:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.03 Mbit/s
95th percentile per-packet one-way delay: 20.794 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 57.68 Mbit/s
95th percentile per-packet one-way delay: 20.741 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 38.25 Mbit/s
95th percentile per-packet one-way delay: 20.898 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 42.72 Mbit/s
95th percentile per-packet one-way delay: 21.724 ms
Loss rate: 0.00%
```

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



Run 2: Statistics of Indigo-1-32

Start at: 2018-04-10 22:29:06

End at: 2018-04-10 22:29:36

Local clock offset: 0.292 ms

Remote clock offset: 5.003 ms

Below is generated by plot.py at 2018-04-11 02:19:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.04 Mbit/s

95th percentile per-packet one-way delay: 21.295 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 58.04 Mbit/s

95th percentile per-packet one-way delay: 21.233 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 37.82 Mbit/s

95th percentile per-packet one-way delay: 21.306 ms

Loss rate: 0.00%

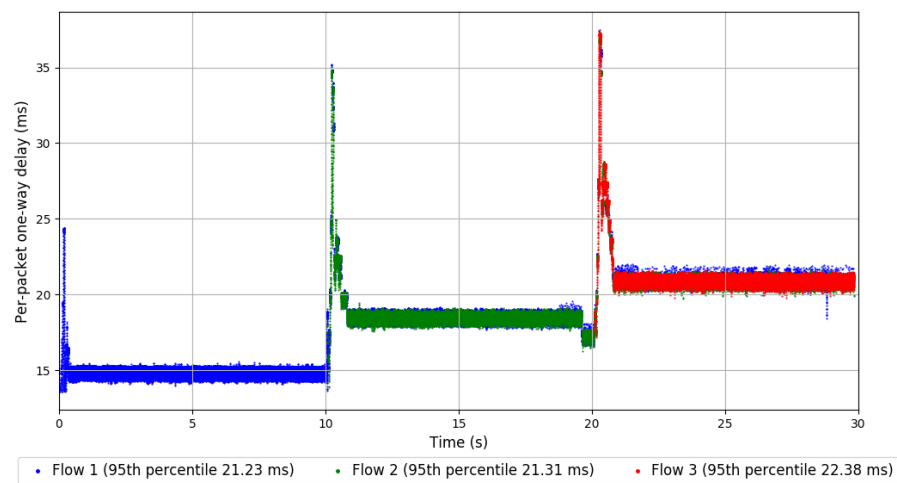
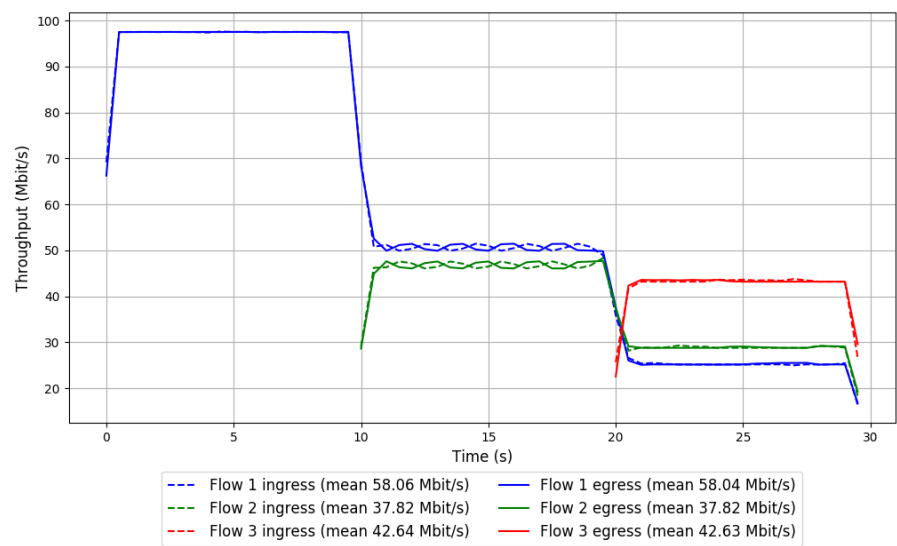
-- Flow 3:

Average throughput: 42.63 Mbit/s

95th percentile per-packet one-way delay: 22.375 ms

Loss rate: 0.00%

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



Run 3: Statistics of Indigo-1-32

Start at: 2018-04-10 22:50:41

End at: 2018-04-10 22:51:11

Local clock offset: 1.021 ms

Remote clock offset: 2.285 ms

Below is generated by plot.py at 2018-04-11 02:19:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.02 Mbit/s

95th percentile per-packet one-way delay: 22.531 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 55.81 Mbit/s

95th percentile per-packet one-way delay: 22.434 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 39.20 Mbit/s

95th percentile per-packet one-way delay: 22.776 ms

Loss rate: 0.00%

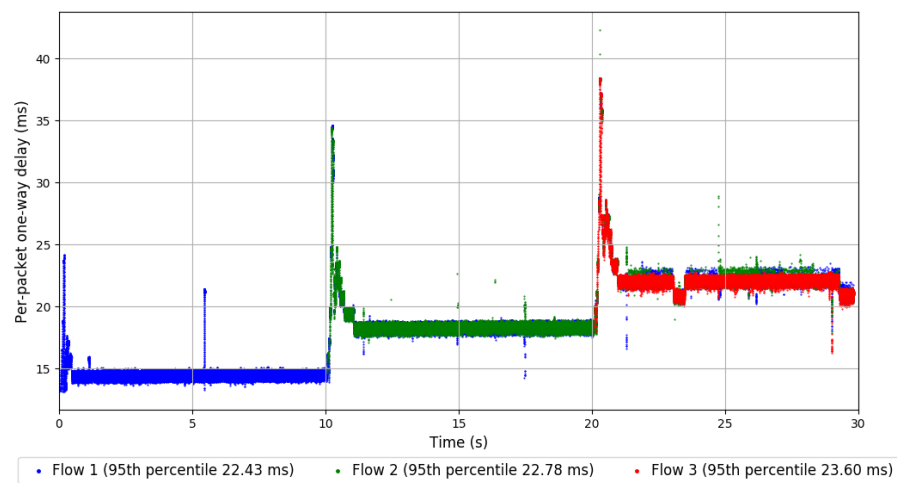
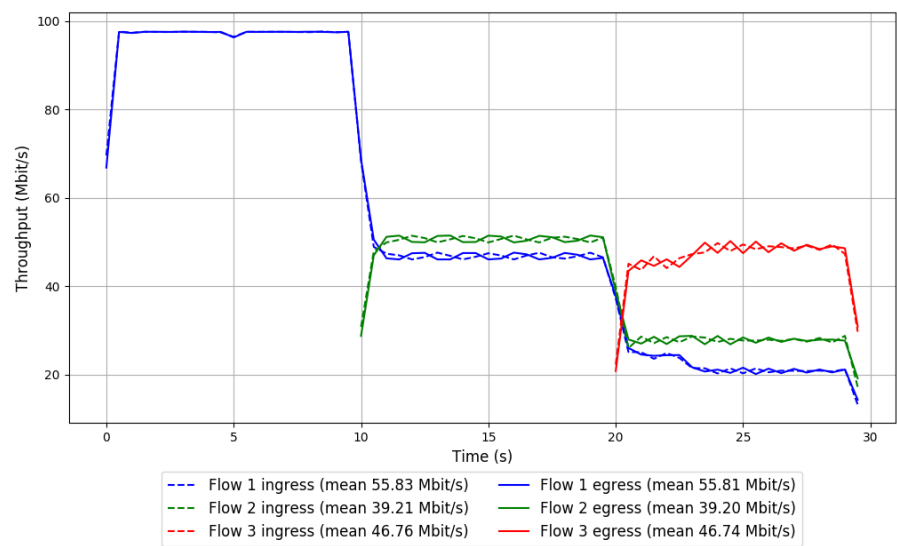
-- Flow 3:

Average throughput: 46.74 Mbit/s

95th percentile per-packet one-way delay: 23.597 ms

Loss rate: 0.00%

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

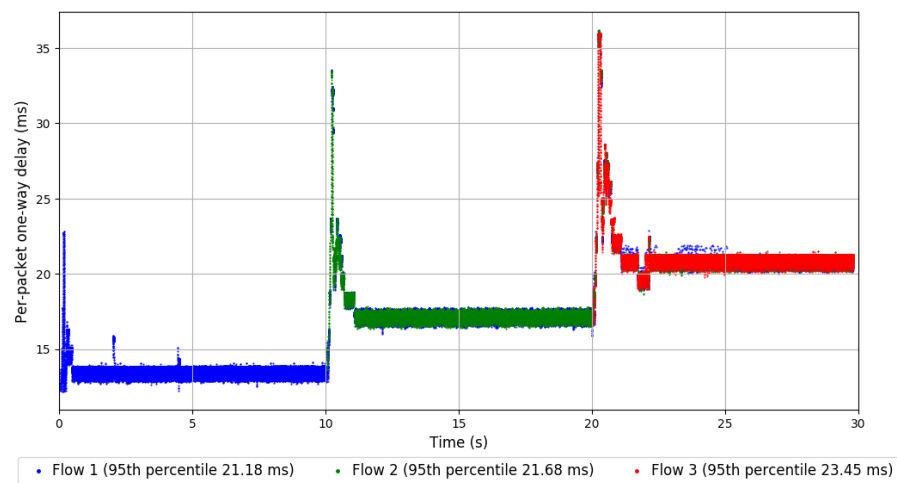
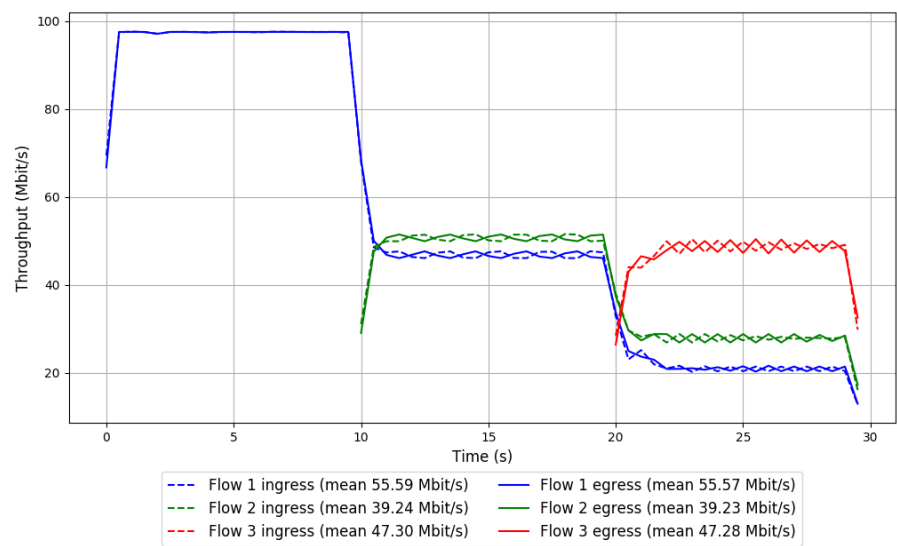


Run 4: Statistics of Indigo-1-32

Start at: 2018-04-10 23:11:50
End at: 2018-04-10 23:12:20
Local clock offset: 1.713 ms
Remote clock offset: -6.119 ms

Below is generated by plot.py at 2018-04-11 02:19:12
Datalink statistics
-- Total of 3 flows:
Average throughput: 97.05 Mbit/s
95th percentile per-packet one-way delay: 21.253 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 55.57 Mbit/s
95th percentile per-packet one-way delay: 21.182 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 39.23 Mbit/s
95th percentile per-packet one-way delay: 21.681 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 47.28 Mbit/s
95th percentile per-packet one-way delay: 23.449 ms
Loss rate: 0.00%

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



Run 5: Statistics of Indigo-1-32

Start at: 2018-04-10 23:33:07

End at: 2018-04-10 23:33:37

Local clock offset: -0.496 ms

Remote clock offset: -9.01 ms

Below is generated by plot.py at 2018-04-11 02:20:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.05 Mbit/s

95th percentile per-packet one-way delay: 21.300 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 55.60 Mbit/s

95th percentile per-packet one-way delay: 20.360 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 39.07 Mbit/s

95th percentile per-packet one-way delay: 21.403 ms

Loss rate: 0.00%

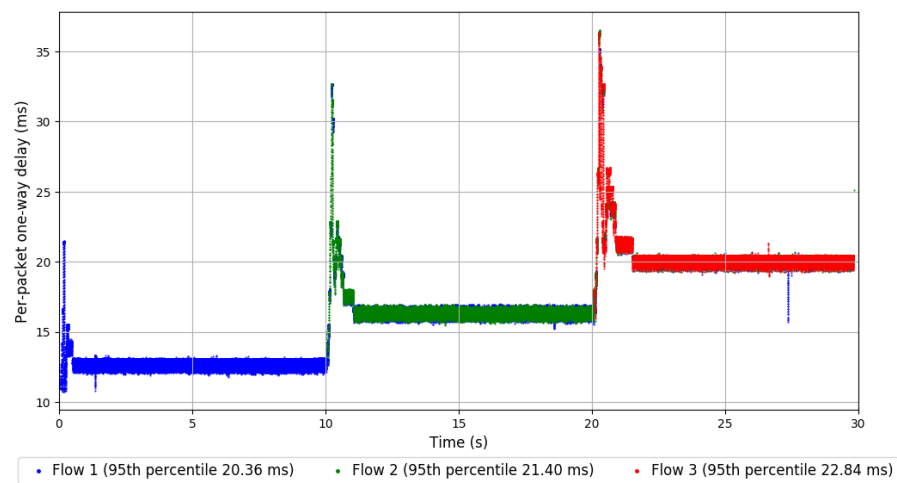
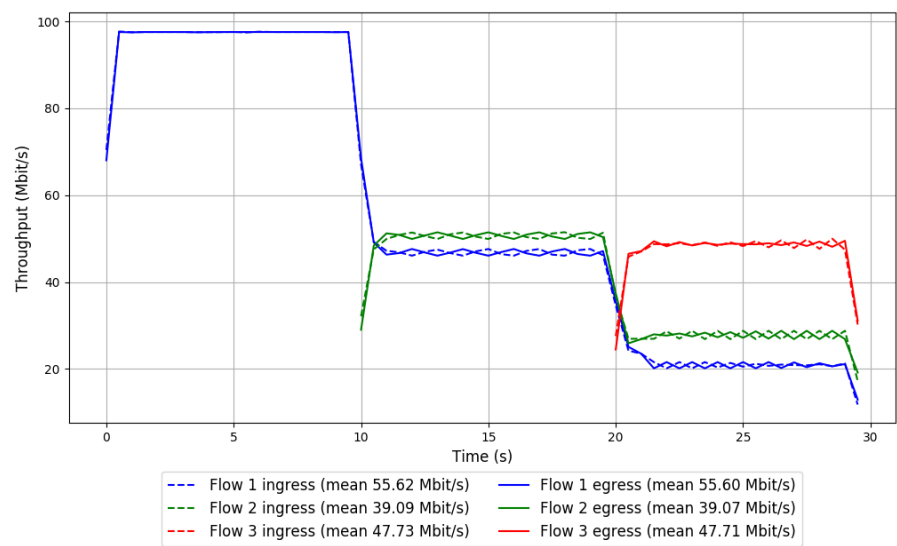
-- Flow 3:

Average throughput: 47.71 Mbit/s

95th percentile per-packet one-way delay: 22.839 ms

Loss rate: 0.00%

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

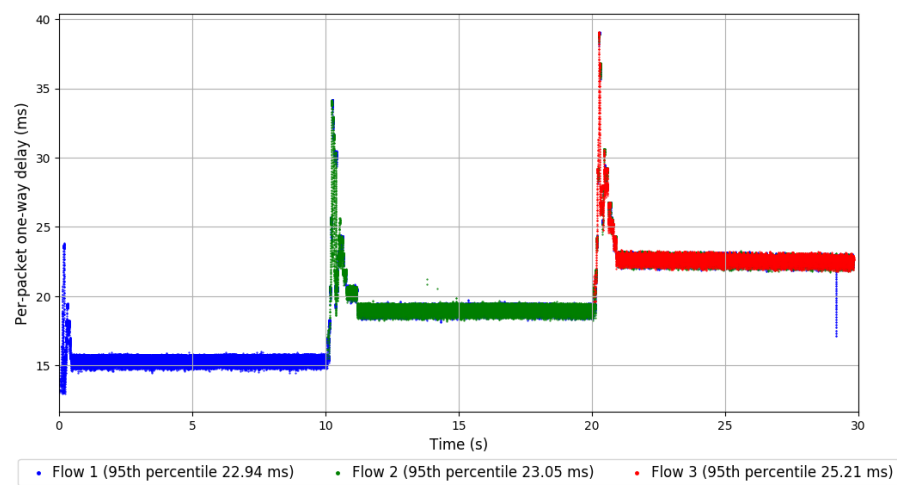
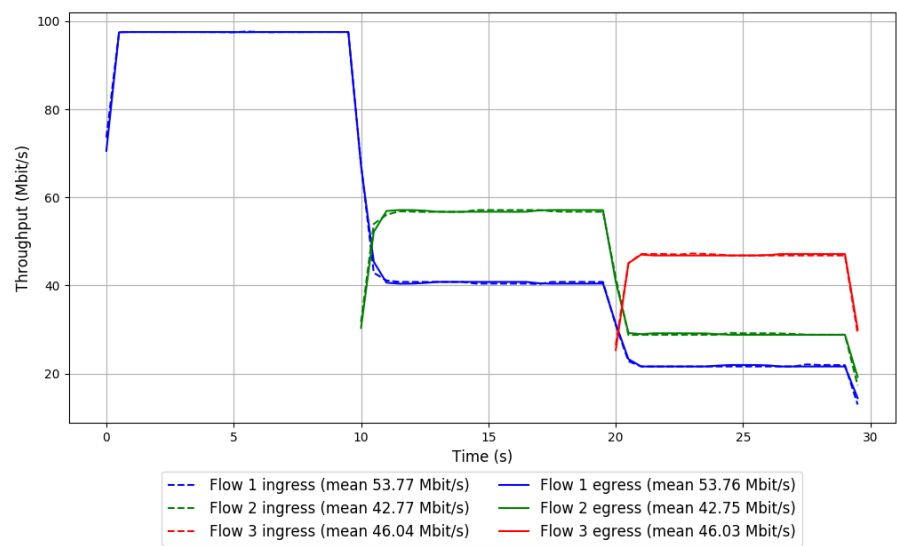


Run 6: Statistics of Indigo-1-32

Start at: 2018-04-10 23:54:17
End at: 2018-04-10 23:54:47
Local clock offset: -1.072 ms
Remote clock offset: -8.301 ms

Below is generated by plot.py at 2018-04-11 02:20:15
Datalink statistics
-- Total of 3 flows:
Average throughput: 97.12 Mbit/s
95th percentile per-packet one-way delay: 23.026 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 53.76 Mbit/s
95th percentile per-packet one-way delay: 22.938 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 42.75 Mbit/s
95th percentile per-packet one-way delay: 23.054 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 46.03 Mbit/s
95th percentile per-packet one-way delay: 25.213 ms
Loss rate: 0.00%

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



Run 7: Statistics of Indigo-1-32

Start at: 2018-04-11 00:15:57

End at: 2018-04-11 00:16:27

Local clock offset: -0.897 ms

Remote clock offset: 1.973 ms

Below is generated by plot.py at 2018-04-11 02:20:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.09 Mbit/s

95th percentile per-packet one-way delay: 20.860 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 55.24 Mbit/s

95th percentile per-packet one-way delay: 20.792 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 43.07 Mbit/s

95th percentile per-packet one-way delay: 21.775 ms

Loss rate: 0.00%

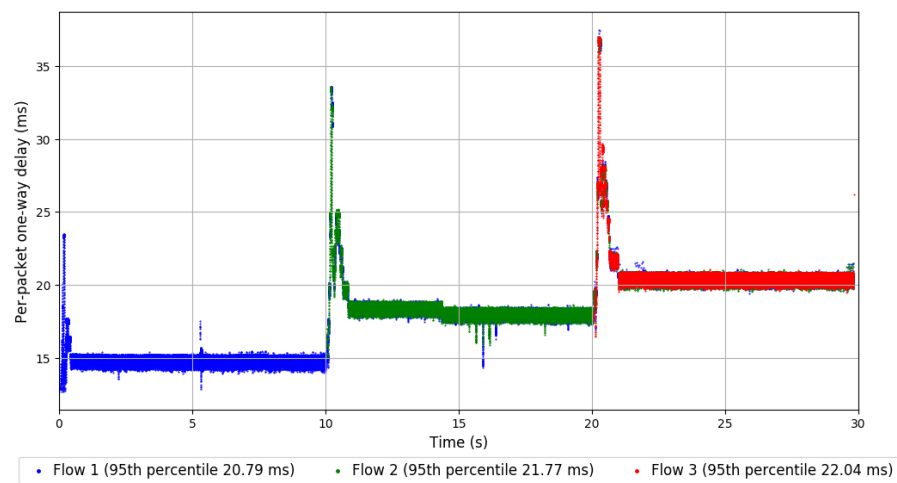
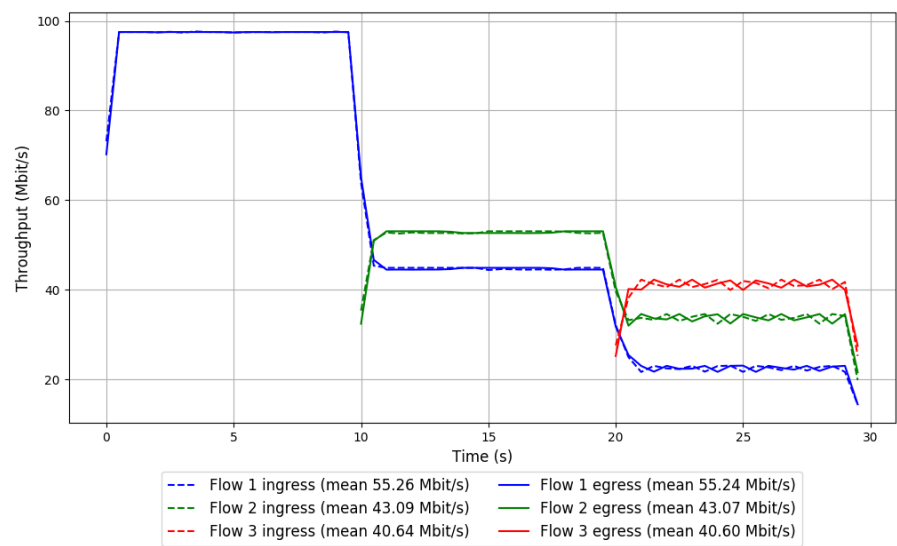
-- Flow 3:

Average throughput: 40.60 Mbit/s

95th percentile per-packet one-way delay: 22.043 ms

Loss rate: 0.00%

Run 7: Report of Indigo-1-32 — Data Link



Run 8: Statistics of Indigo-1-32

Start at: 2018-04-11 00:37:20

End at: 2018-04-11 00:37:50

Local clock offset: 0.842 ms

Remote clock offset: 2.238 ms

Below is generated by plot.py at 2018-04-11 02:20:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.09 Mbit/s

95th percentile per-packet one-way delay: 23.415 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 53.00 Mbit/s

95th percentile per-packet one-way delay: 23.327 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 41.58 Mbit/s

95th percentile per-packet one-way delay: 23.451 ms

Loss rate: 0.00%

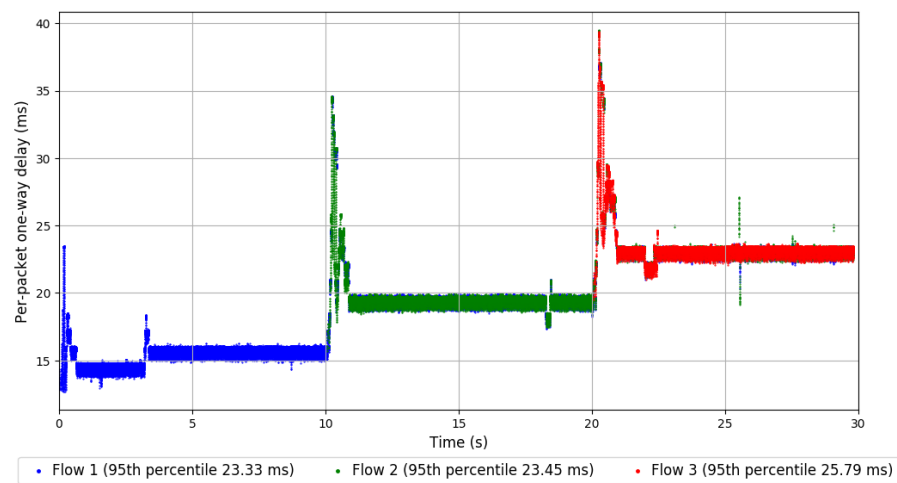
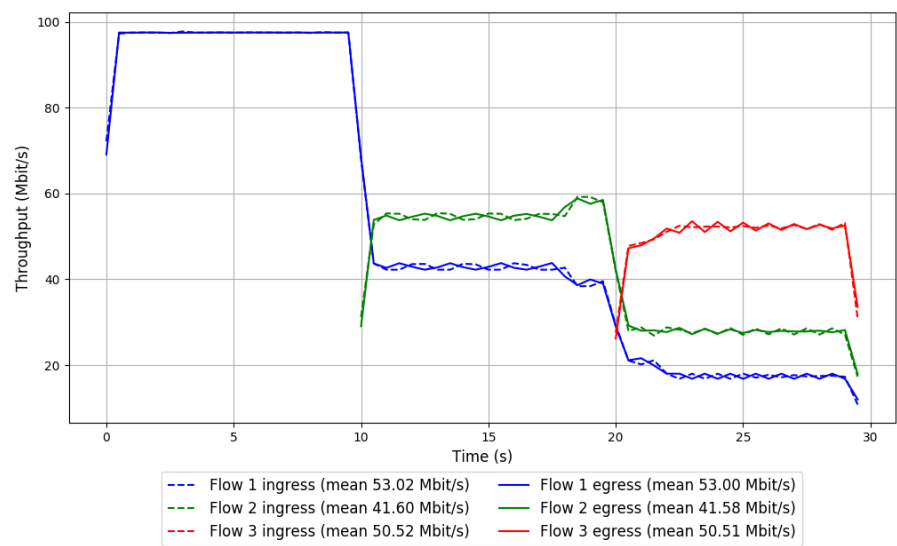
-- Flow 3:

Average throughput: 50.51 Mbit/s

95th percentile per-packet one-way delay: 25.790 ms

Loss rate: 0.00%

Run 8: Report of Indigo-1-32 — Data Link



Run 9: Statistics of Indigo-1-32

Start at: 2018-04-11 00:58:59

End at: 2018-04-11 00:59:29

Local clock offset: 2.092 ms

Remote clock offset: 3.047 ms

Below is generated by plot.py at 2018-04-11 02:20:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.10 Mbit/s

95th percentile per-packet one-way delay: 22.068 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 54.25 Mbit/s

95th percentile per-packet one-way delay: 21.971 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 40.28 Mbit/s

95th percentile per-packet one-way delay: 22.088 ms

Loss rate: 0.00%

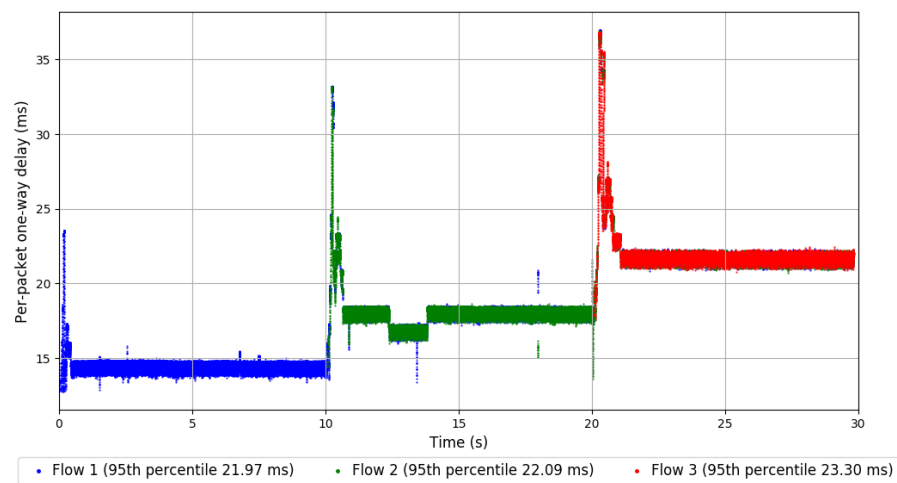
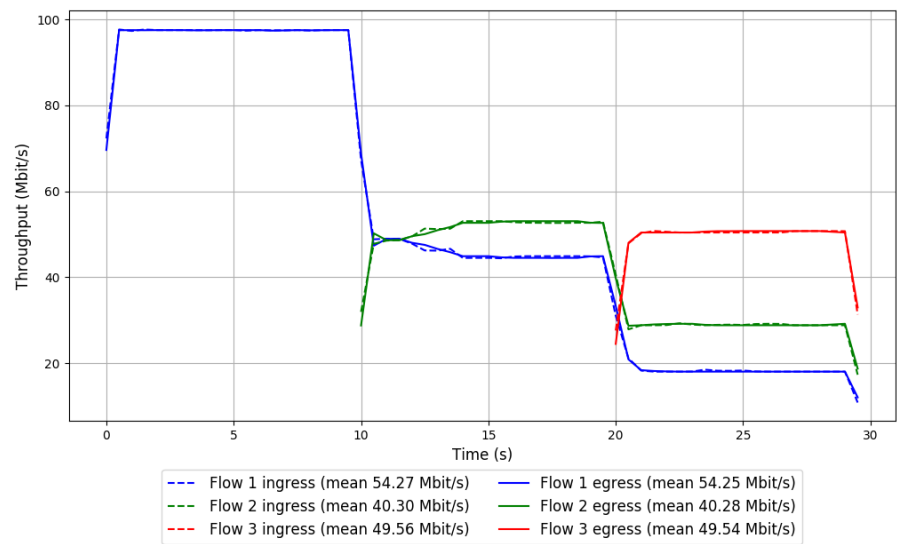
-- Flow 3:

Average throughput: 49.54 Mbit/s

95th percentile per-packet one-way delay: 23.299 ms

Loss rate: 0.00%

Run 9: Report of Indigo-1-32 — Data Link

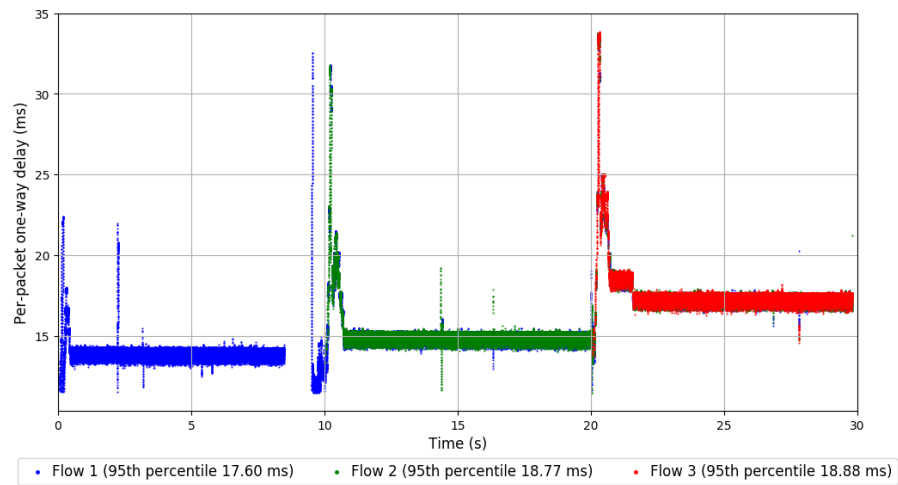
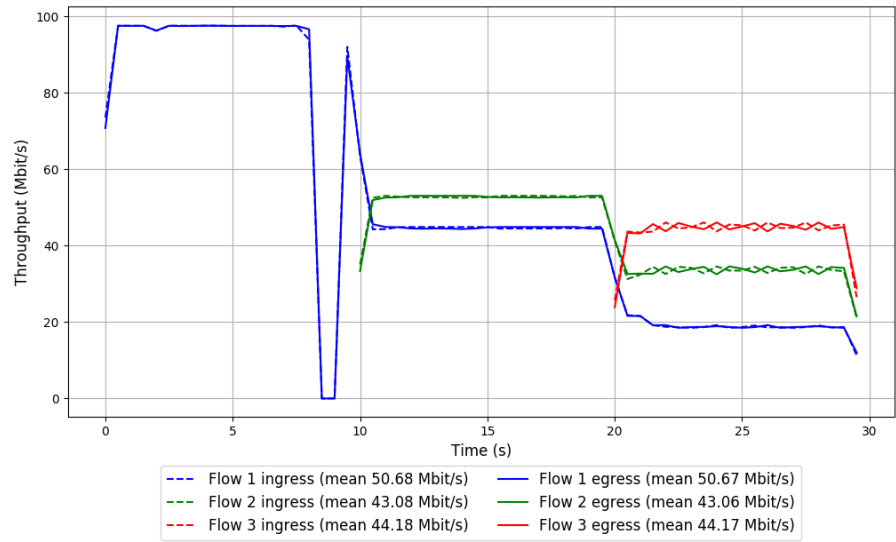


Run 10: Statistics of Indigo-1-32

Start at: 2018-04-11 01:20:12
End at: 2018-04-11 01:20:42
Local clock offset: 1.353 ms
Remote clock offset: 11.435 ms

Below is generated by plot.py at 2018-04-11 02:20:32
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.64 Mbit/s
95th percentile per-packet one-way delay: 18.636 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 50.67 Mbit/s
95th percentile per-packet one-way delay: 17.599 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 43.06 Mbit/s
95th percentile per-packet one-way delay: 18.772 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 44.17 Mbit/s
95th percentile per-packet one-way delay: 18.881 ms
Loss rate: 0.00%

Run 10: Report of Indigo-1-32 — Data Link

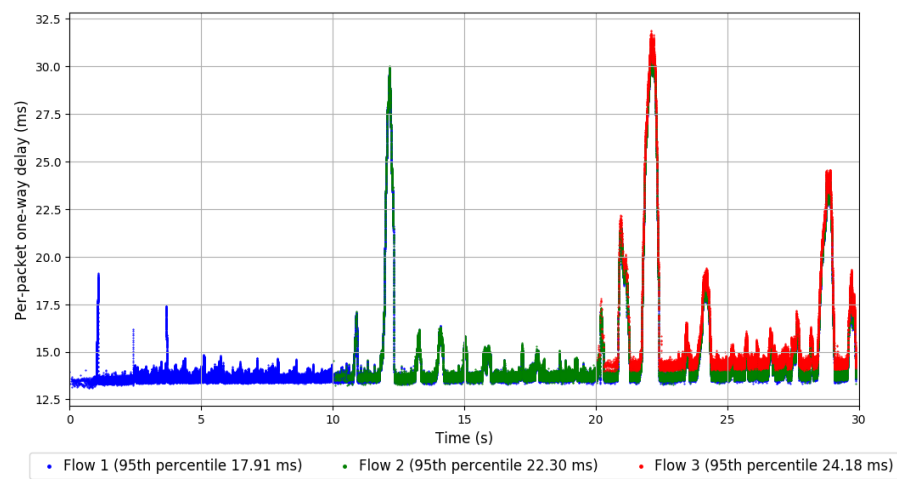
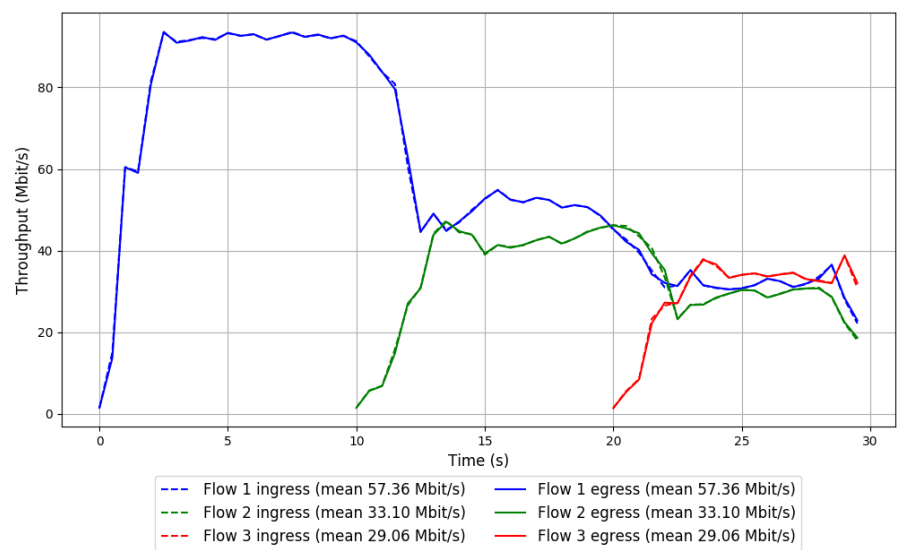


Run 1: Statistics of Vivace-latency

Start at: 2018-04-10 21:50:59
End at: 2018-04-10 21:51:29
Local clock offset: 0.409 ms
Remote clock offset: -0.032 ms

Below is generated by plot.py at 2018-04-11 02:20:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 88.95 Mbit/s
95th percentile per-packet one-way delay: 20.428 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 57.36 Mbit/s
95th percentile per-packet one-way delay: 17.906 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 33.10 Mbit/s
95th percentile per-packet one-way delay: 22.296 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 29.06 Mbit/s
95th percentile per-packet one-way delay: 24.175 ms
Loss rate: 0.00%

Run 1: Report of Vivace-latency — Data Link

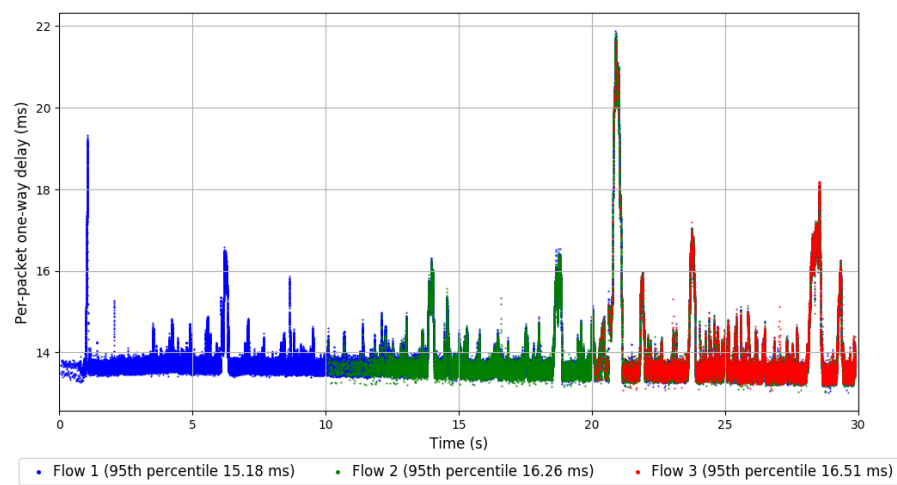
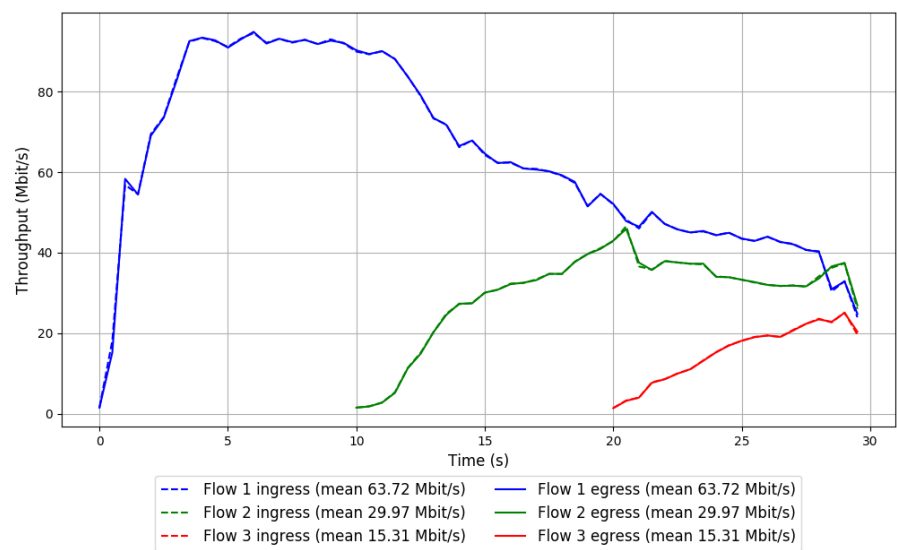


Run 2: Statistics of Vivace-latency

Start at: 2018-04-10 22:13:33
End at: 2018-04-10 22:14:03
Local clock offset: -0.033 ms
Remote clock offset: -0.664 ms

Below is generated by plot.py at 2018-04-11 02:20:42
Datalink statistics
-- Total of 3 flows:
Average throughput: 88.69 Mbit/s
95th percentile per-packet one-way delay: 15.594 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 63.72 Mbit/s
95th percentile per-packet one-way delay: 15.180 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 29.97 Mbit/s
95th percentile per-packet one-way delay: 16.258 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 15.31 Mbit/s
95th percentile per-packet one-way delay: 16.512 ms
Loss rate: 0.00%

Run 2: Report of Vivace-latency — Data Link



Run 3: Statistics of Vivace-latency

Start at: 2018-04-10 22:34:59

End at: 2018-04-10 22:35:29

Local clock offset: 0.154 ms

Remote clock offset: 5.062 ms

Below is generated by plot.py at 2018-04-11 02:21:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.56 Mbit/s

95th percentile per-packet one-way delay: 16.819 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 59.32 Mbit/s

95th percentile per-packet one-way delay: 16.514 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 36.88 Mbit/s

95th percentile per-packet one-way delay: 18.096 ms

Loss rate: 0.00%

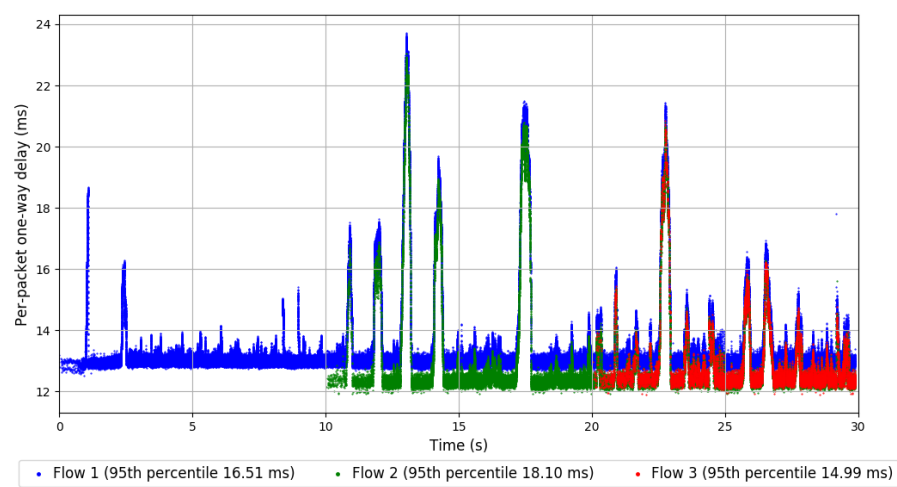
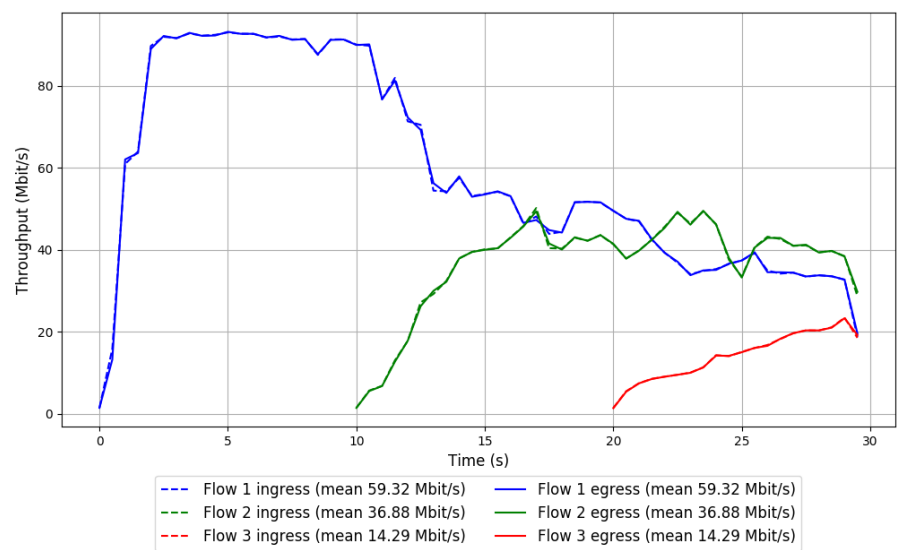
-- Flow 3:

Average throughput: 14.29 Mbit/s

95th percentile per-packet one-way delay: 14.989 ms

Loss rate: 0.00%

Run 3: Report of Vivace-latency — Data Link



Run 4: Statistics of Vivace-latency

Start at: 2018-04-10 22:56:31

End at: 2018-04-10 22:57:01

Local clock offset: 1.335 ms

Remote clock offset: -1.52 ms

Below is generated by plot.py at 2018-04-11 02:21:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.37 Mbit/s

95th percentile per-packet one-way delay: 15.815 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 60.32 Mbit/s

95th percentile per-packet one-way delay: 15.417 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 34.29 Mbit/s

95th percentile per-packet one-way delay: 16.767 ms

Loss rate: 0.00%

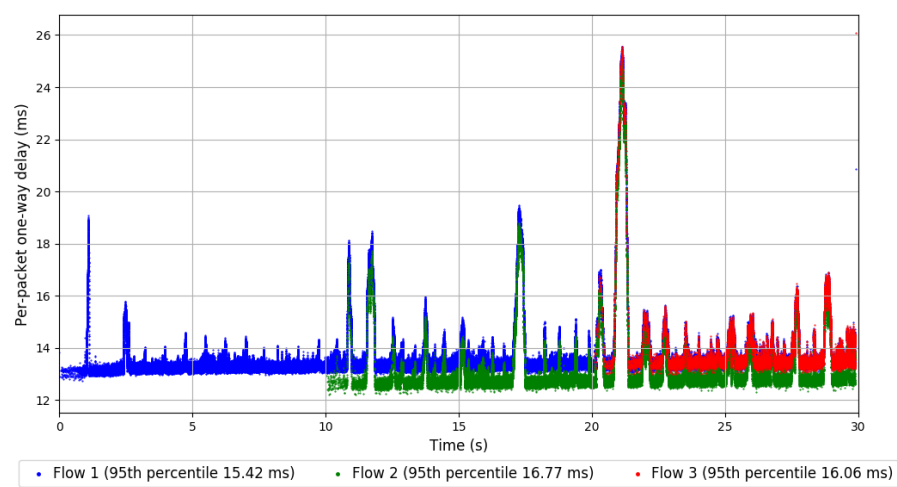
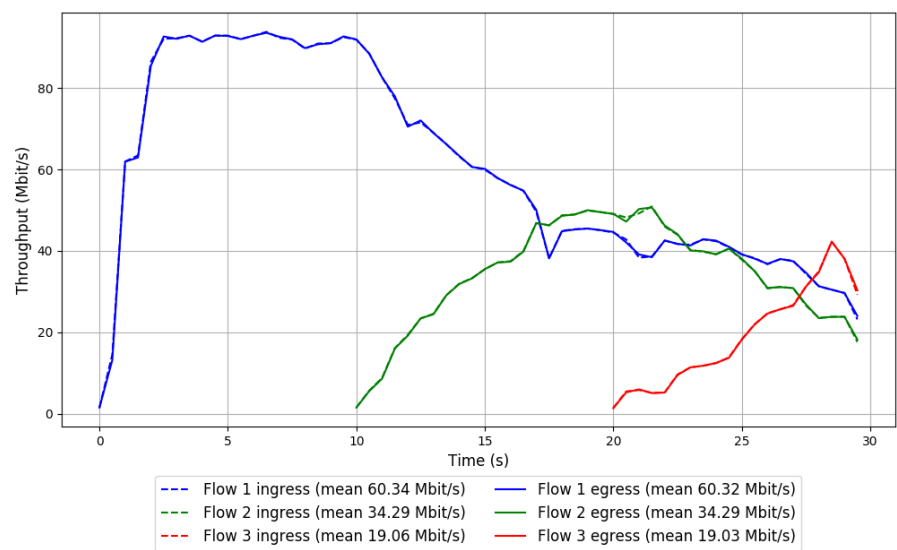
-- Flow 3:

Average throughput: 19.03 Mbit/s

95th percentile per-packet one-way delay: 16.064 ms

Loss rate: 0.01%

Run 4: Report of Vivace-latency — Data Link

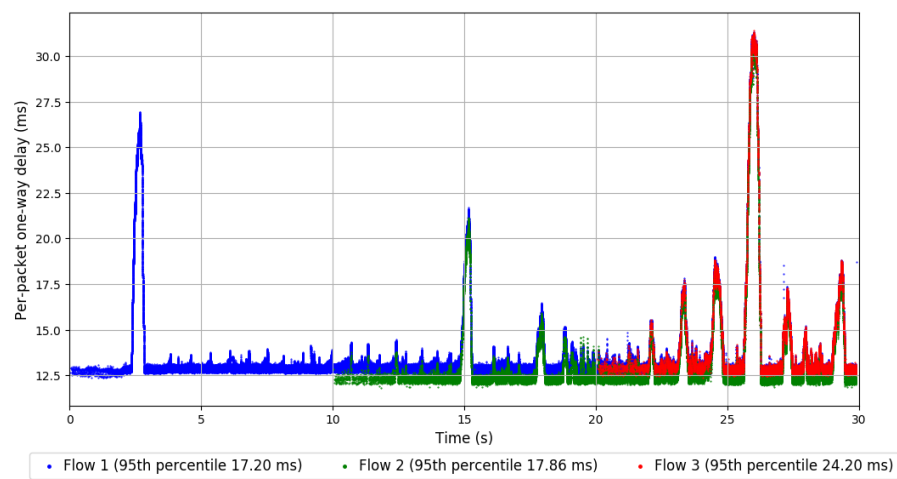
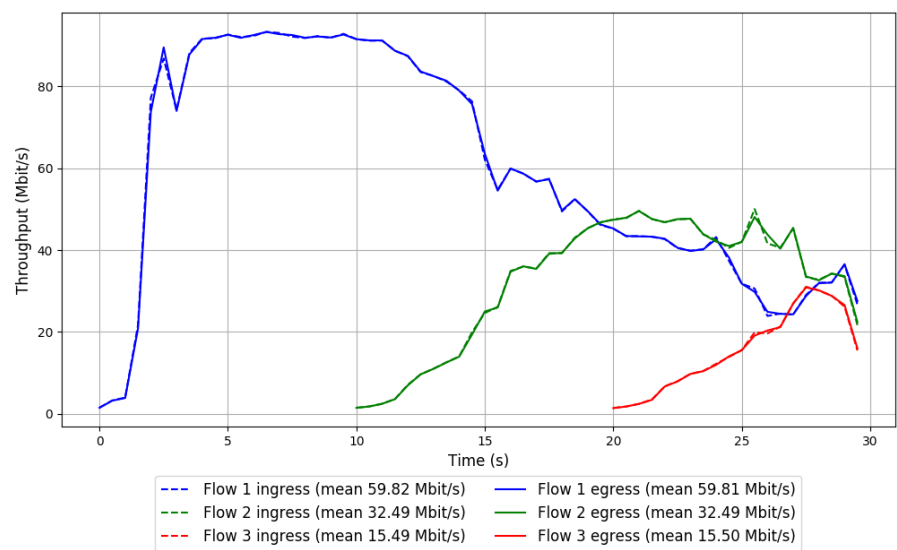


Run 5: Statistics of Vivace-latency

Start at: 2018-04-10 23:17:39
End at: 2018-04-10 23:18:09
Local clock offset: 1.349 ms
Remote clock offset: -6.416 ms

Below is generated by plot.py at 2018-04-11 02:21:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 86.51 Mbit/s
95th percentile per-packet one-way delay: 17.656 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 59.81 Mbit/s
95th percentile per-packet one-way delay: 17.203 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 32.49 Mbit/s
95th percentile per-packet one-way delay: 17.860 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 15.50 Mbit/s
95th percentile per-packet one-way delay: 24.202 ms
Loss rate: 0.00%

Run 5: Report of Vivace-latency — Data Link

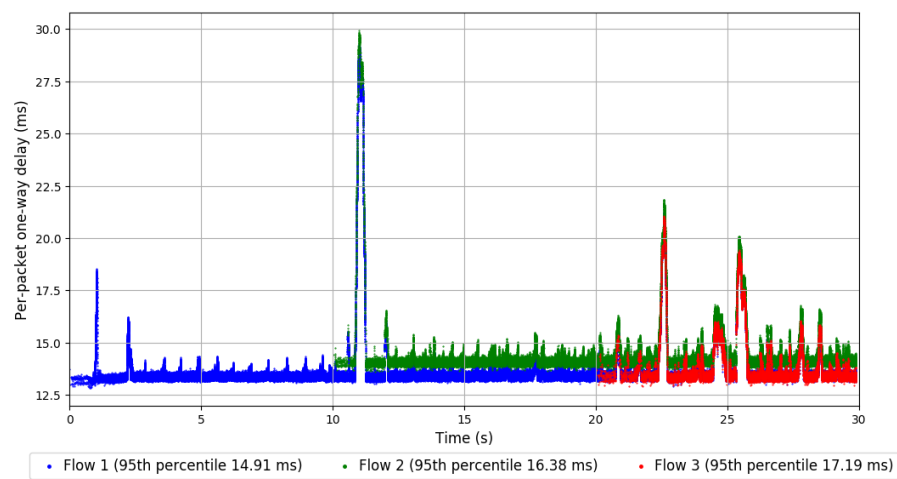
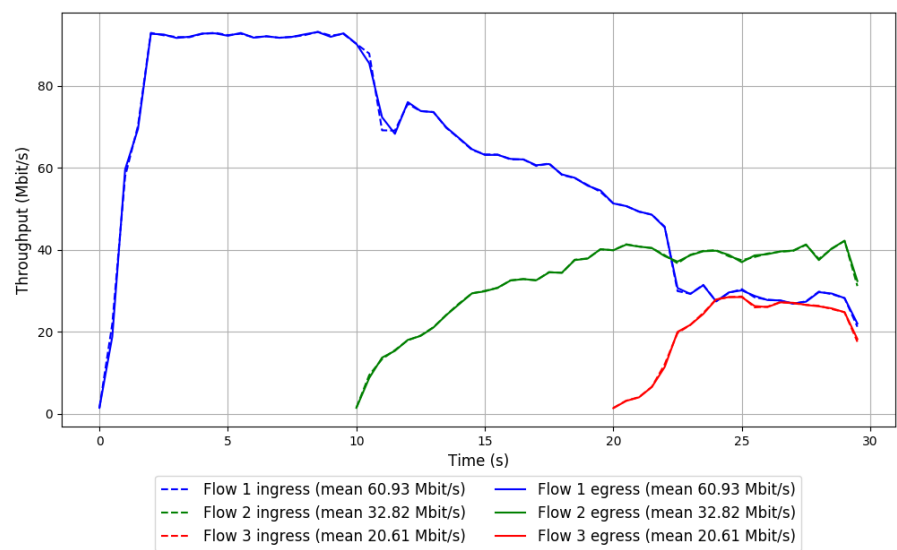


Run 6: Statistics of Vivace-latency

Start at: 2018-04-10 23:38:58
End at: 2018-04-10 23:39:28
Local clock offset: -1.448 ms
Remote clock offset: -7.719 ms

Below is generated by plot.py at 2018-04-11 02:21:57
Datalink statistics
-- Total of 3 flows:
Average throughput: 89.54 Mbit/s
95th percentile per-packet one-way delay: 15.675 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 60.93 Mbit/s
95th percentile per-packet one-way delay: 14.907 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 32.82 Mbit/s
95th percentile per-packet one-way delay: 16.382 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 20.61 Mbit/s
95th percentile per-packet one-way delay: 17.192 ms
Loss rate: 0.00%

Run 6: Report of Vivace-latency — Data Link



Run 7: Statistics of Vivace-latency

Start at: 2018-04-11 00:00:06

End at: 2018-04-11 00:00:36

Local clock offset: -0.225 ms

Remote clock offset: -4.36 ms

Below is generated by plot.py at 2018-04-11 02:21:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 74.32 Mbit/s

95th percentile per-packet one-way delay: 17.213 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 47.00 Mbit/s

95th percentile per-packet one-way delay: 20.833 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 30.40 Mbit/s

95th percentile per-packet one-way delay: 16.579 ms

Loss rate: 0.00%

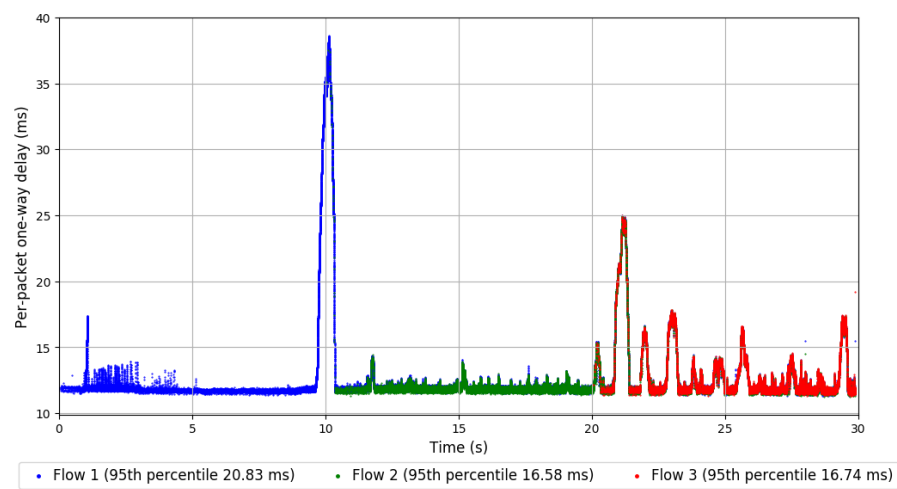
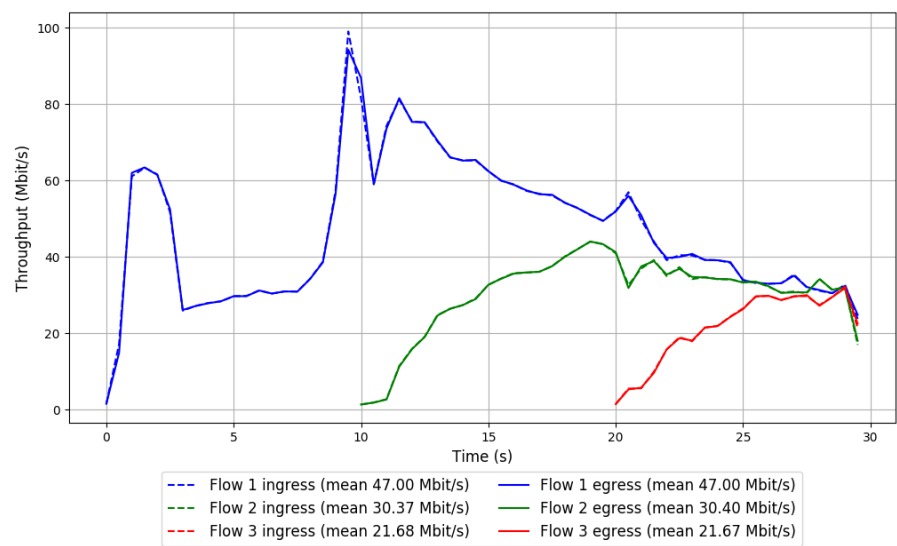
-- Flow 3:

Average throughput: 21.67 Mbit/s

95th percentile per-packet one-way delay: 16.736 ms

Loss rate: 0.00%

Run 7: Report of Vivace-latency — Data Link



Run 8: Statistics of Vivace-latency

Start at: 2018-04-11 00:21:48

End at: 2018-04-11 00:22:18

Local clock offset: -1.324 ms

Remote clock offset: 3.554 ms

Below is generated by plot.py at 2018-04-11 02:21:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.95 Mbit/s

95th percentile per-packet one-way delay: 15.441 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 60.52 Mbit/s

95th percentile per-packet one-way delay: 14.937 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 29.37 Mbit/s

95th percentile per-packet one-way delay: 15.684 ms

Loss rate: 0.00%

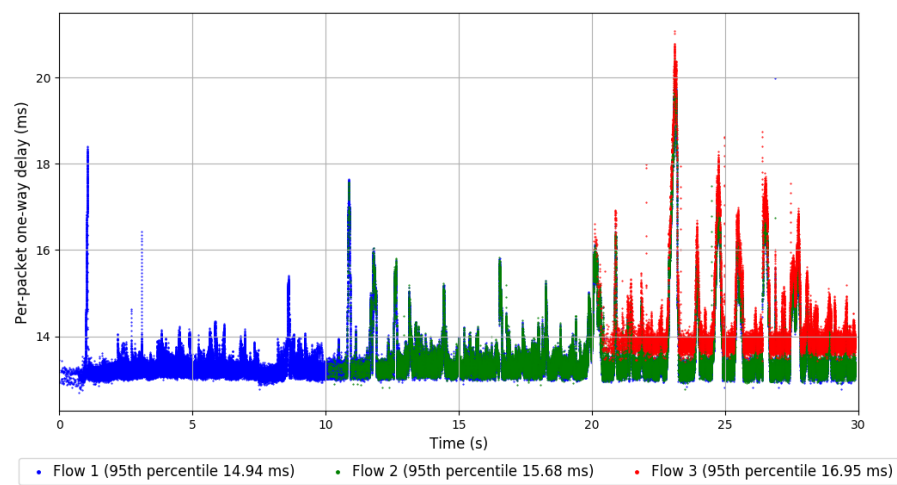
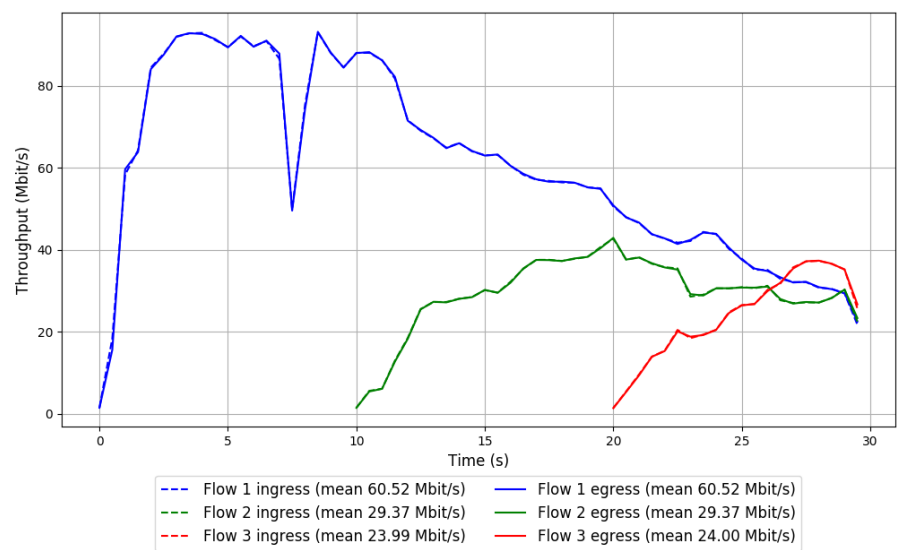
-- Flow 3:

Average throughput: 24.00 Mbit/s

95th percentile per-packet one-way delay: 16.947 ms

Loss rate: 0.00%

Run 8: Report of Vivace-latency — Data Link



Run 9: Statistics of Vivace-latency

Start at: 2018-04-11 00:43:14

End at: 2018-04-11 00:43:44

Local clock offset: 1.581 ms

Remote clock offset: 1.422 ms

Below is generated by plot.py at 2018-04-11 02:22:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.92 Mbit/s

95th percentile per-packet one-way delay: 15.137 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 61.71 Mbit/s

95th percentile per-packet one-way delay: 14.391 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 32.57 Mbit/s

95th percentile per-packet one-way delay: 15.698 ms

Loss rate: 0.00%

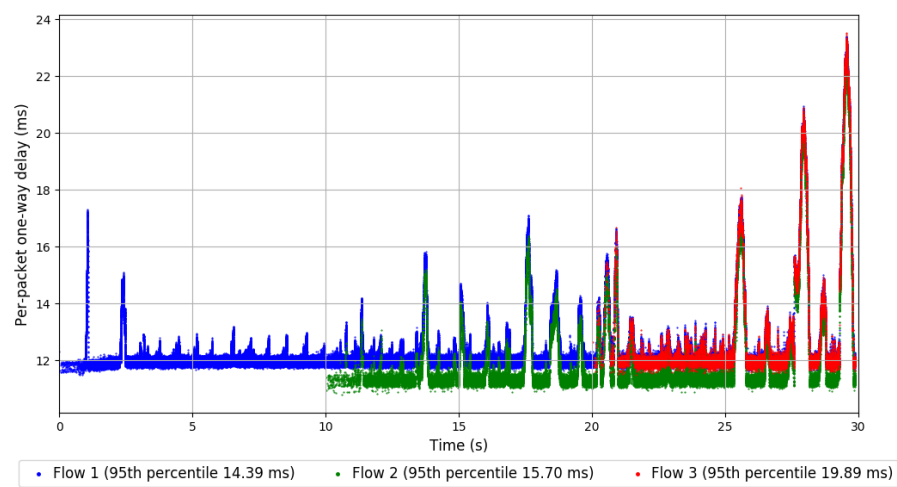
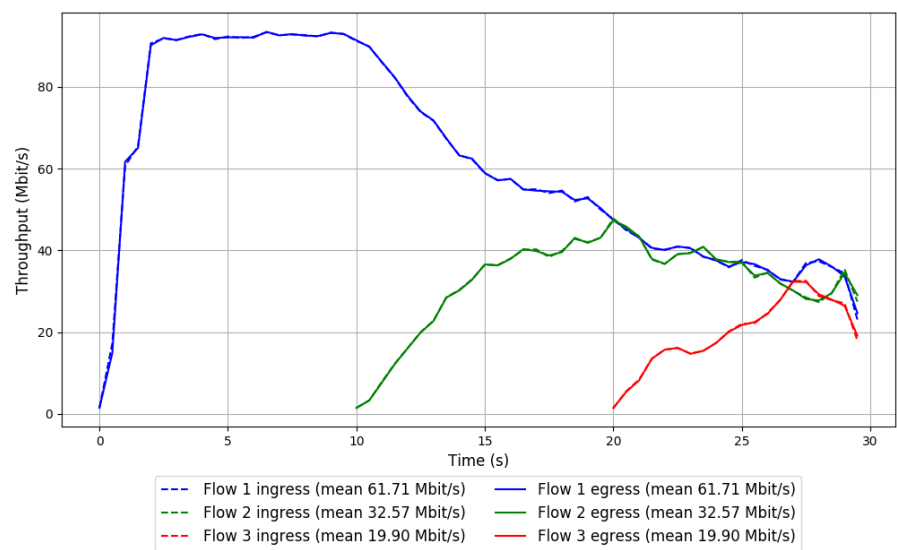
-- Flow 3:

Average throughput: 19.90 Mbit/s

95th percentile per-packet one-way delay: 19.890 ms

Loss rate: 0.00%

Run 9: Report of Vivace-latency — Data Link



Run 10: Statistics of Vivace-latency

Start at: 2018-04-11 01:04:50

End at: 2018-04-11 01:05:20

Local clock offset: 0.965 ms

Remote clock offset: 4.226 ms

Below is generated by plot.py at 2018-04-11 02:22:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.45 Mbit/s

95th percentile per-packet one-way delay: 15.217 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 61.59 Mbit/s

95th percentile per-packet one-way delay: 14.694 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 33.84 Mbit/s

95th percentile per-packet one-way delay: 15.220 ms

Loss rate: 0.00%

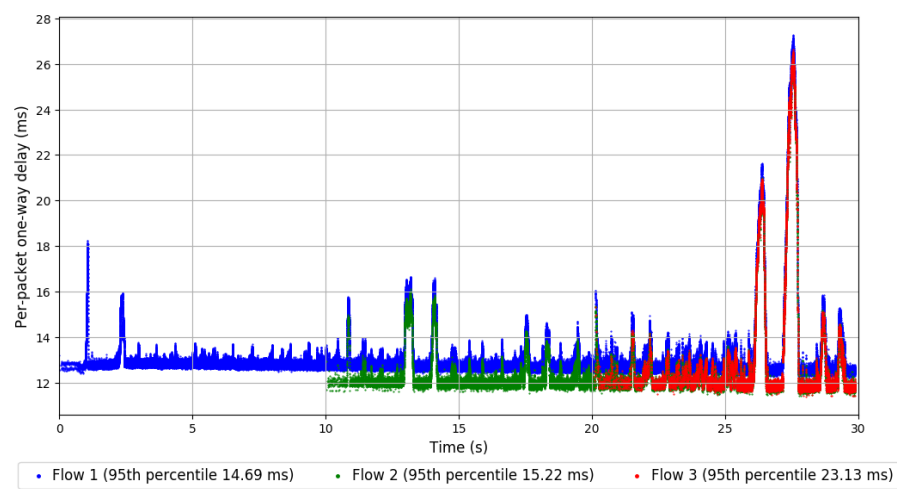
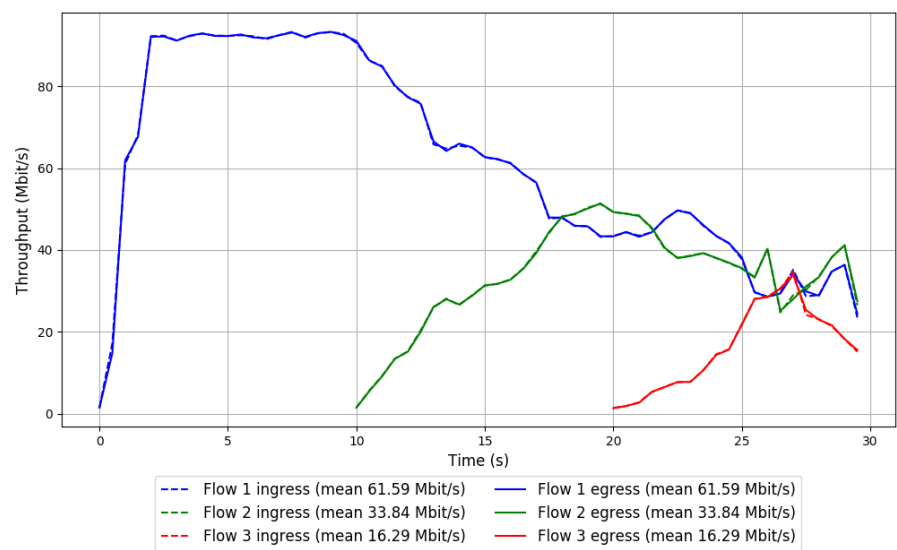
-- Flow 3:

Average throughput: 16.29 Mbit/s

95th percentile per-packet one-way delay: 23.132 ms

Loss rate: 0.00%

Run 10: Report of Vivace-latency — Data Link

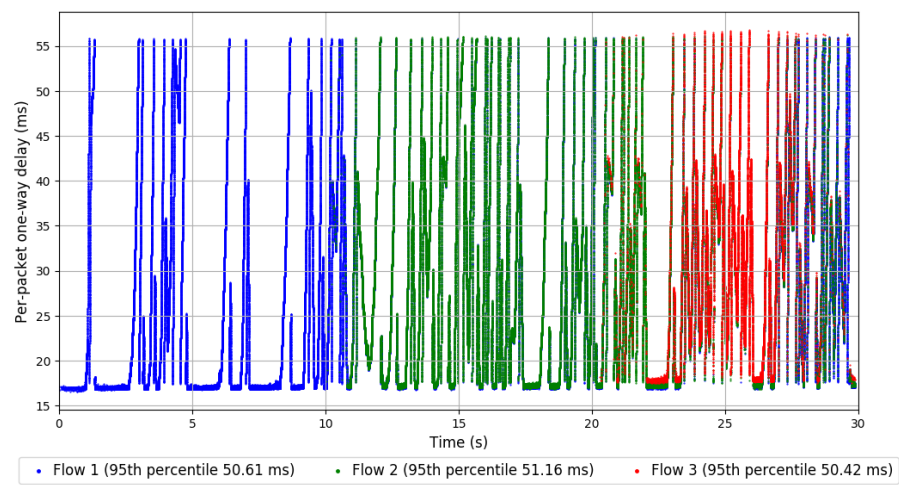
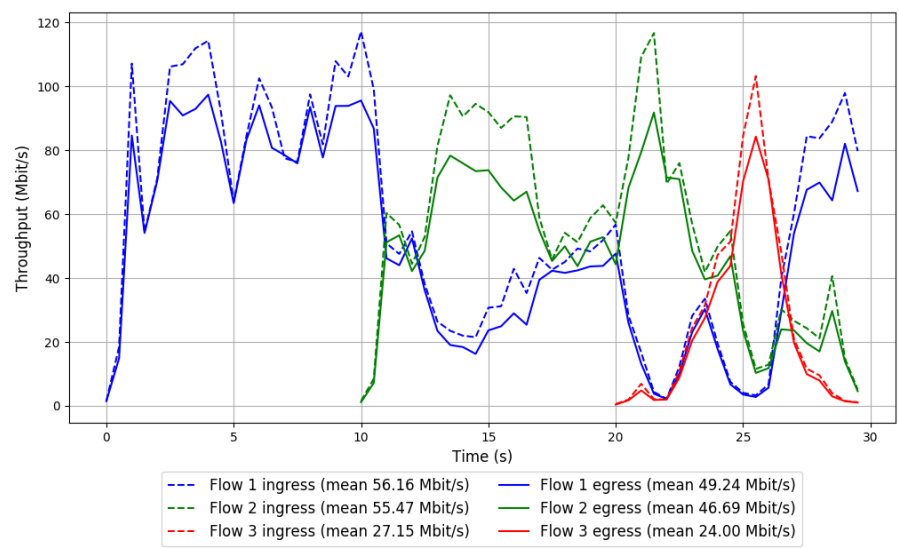


```
Run 1: Statistics of Vivace-loss

Start at: 2018-04-10 21:48:38
End at: 2018-04-10 21:49:08
Local clock offset: -6.261 ms
Remote clock offset: -2.567 ms

# Below is generated by plot.py at 2018-04-11 02:23:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.97 Mbit/s
95th percentile per-packet one-way delay: 50.788 ms
Loss rate: 13.72%
-- Flow 1:
Average throughput: 49.24 Mbit/s
95th percentile per-packet one-way delay: 50.609 ms
Loss rate: 12.32%
-- Flow 2:
Average throughput: 46.69 Mbit/s
95th percentile per-packet one-way delay: 51.157 ms
Loss rate: 15.82%
-- Flow 3:
Average throughput: 24.00 Mbit/s
95th percentile per-packet one-way delay: 50.416 ms
Loss rate: 13.91%
```

Run 1: Report of Vivace-loss — Data Link

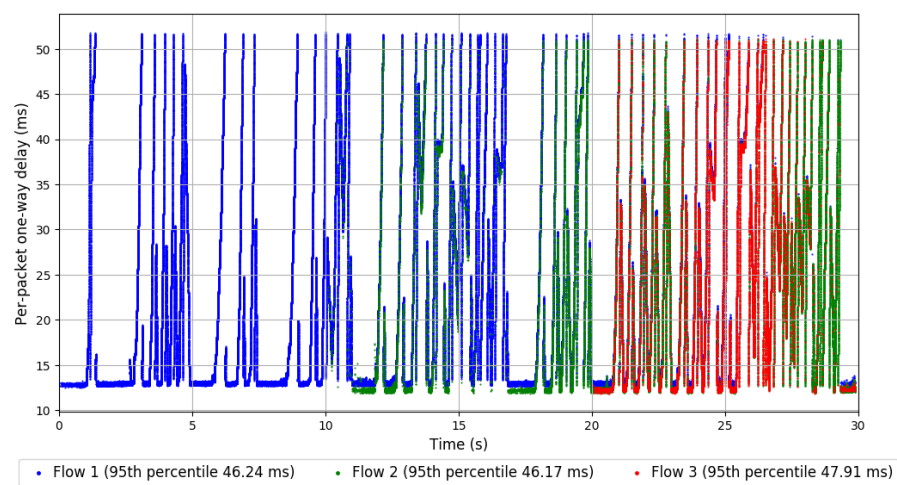
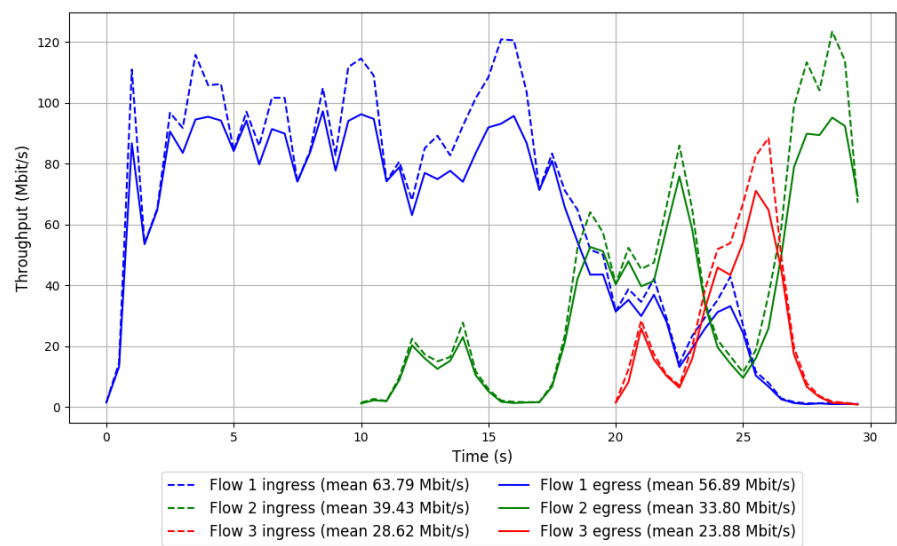


Run 2: Statistics of Vivace-loss

Start at: 2018-04-10 22:10:51
End at: 2018-04-10 22:11:21
Local clock offset: 0.806 ms
Remote clock offset: -2.407 ms

Below is generated by plot.py at 2018-04-11 02:23:11
Datalink statistics
-- Total of 3 flows:
Average throughput: 87.23 Mbit/s
95th percentile per-packet one-way delay: 46.478 ms
Loss rate: 12.28%
-- Flow 1:
Average throughput: 56.89 Mbit/s
95th percentile per-packet one-way delay: 46.242 ms
Loss rate: 10.82%
-- Flow 2:
Average throughput: 33.80 Mbit/s
95th percentile per-packet one-way delay: 46.173 ms
Loss rate: 14.29%
-- Flow 3:
Average throughput: 23.88 Mbit/s
95th percentile per-packet one-way delay: 47.911 ms
Loss rate: 16.54%

Run 2: Report of Vivace-loss — Data Link



Run 3: Statistics of Vivace-loss

Start at: 2018-04-10 22:32:36

End at: 2018-04-10 22:33:06

Local clock offset: 0.017 ms

Remote clock offset: 3.909 ms

Below is generated by plot.py at 2018-04-11 02:23:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.45 Mbit/s

95th percentile per-packet one-way delay: 45.902 ms

Loss rate: 11.52%

-- Flow 1:

Average throughput: 62.58 Mbit/s

95th percentile per-packet one-way delay: 46.239 ms

Loss rate: 11.78%

-- Flow 2:

Average throughput: 22.32 Mbit/s

95th percentile per-packet one-way delay: 44.844 ms

Loss rate: 10.68%

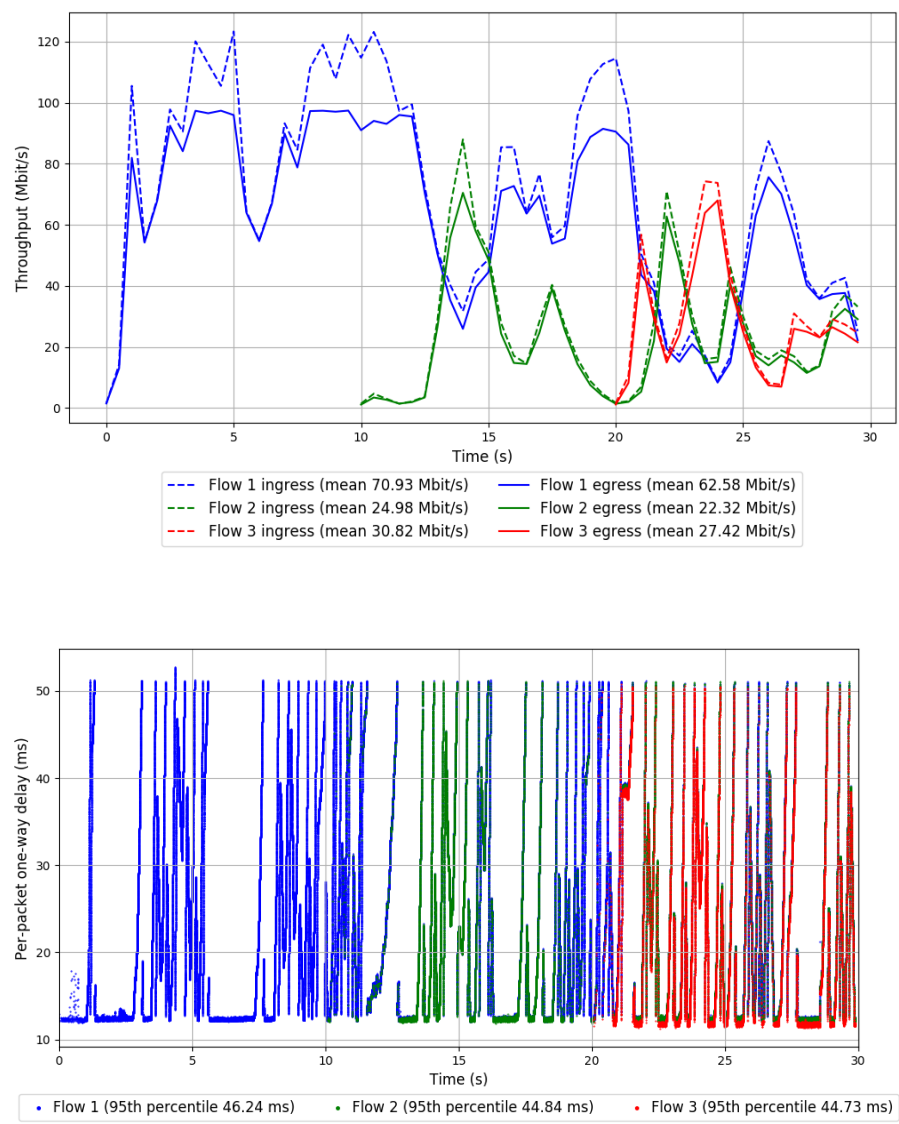
-- Flow 3:

Average throughput: 27.42 Mbit/s

95th percentile per-packet one-way delay: 44.732 ms

Loss rate: 11.03%

Run 3: Report of Vivace-loss — Data Link

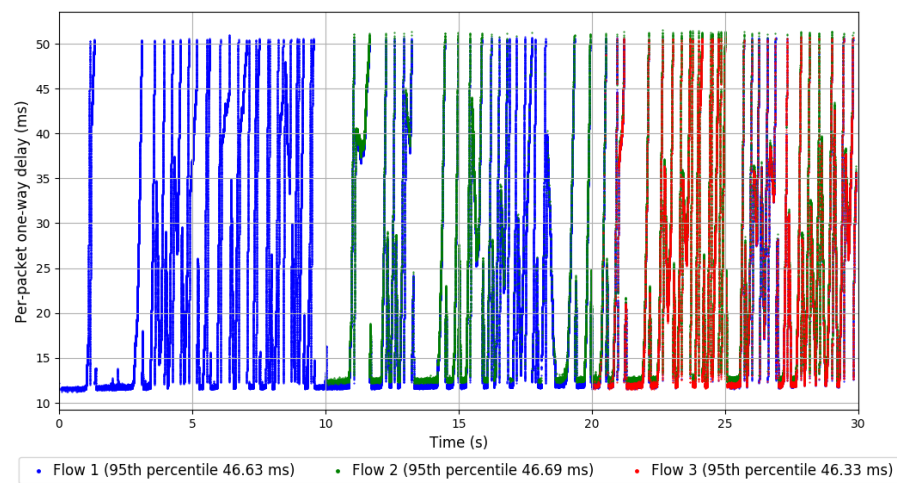
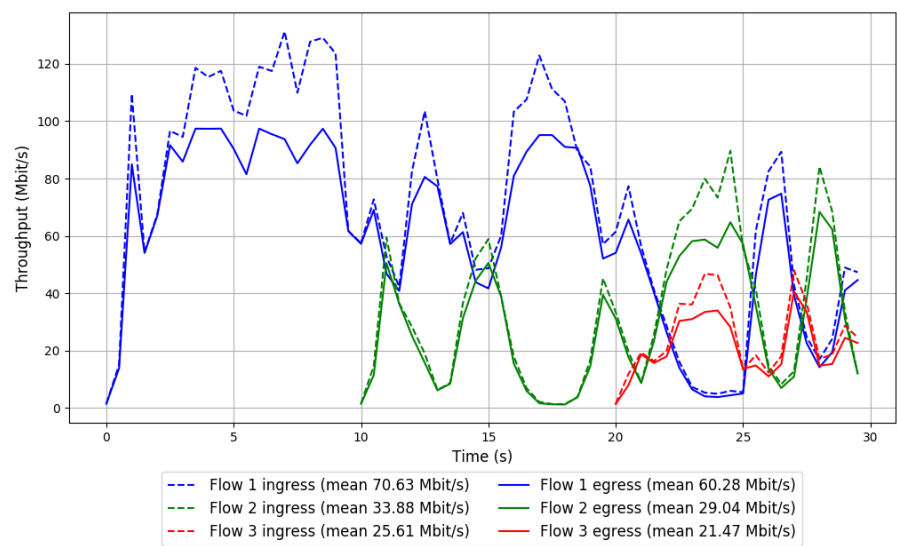


Run 4: Statistics of Vivace-loss

Start at: 2018-04-10 22:54:08
End at: 2018-04-10 22:54:38
Local clock offset: 1.532 ms
Remote clock offset: -0.751 ms

Below is generated by plot.py at 2018-04-11 02:23:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 86.71 Mbit/s
95th percentile per-packet one-way delay: 46.621 ms
Loss rate: 14.63%
-- Flow 1:
Average throughput: 60.28 Mbit/s
95th percentile per-packet one-way delay: 46.632 ms
Loss rate: 14.61%
-- Flow 2:
Average throughput: 29.04 Mbit/s
95th percentile per-packet one-way delay: 46.688 ms
Loss rate: 14.18%
-- Flow 3:
Average throughput: 21.47 Mbit/s
95th percentile per-packet one-way delay: 46.334 ms
Loss rate: 15.97%

Run 4: Report of Vivace-loss — Data Link

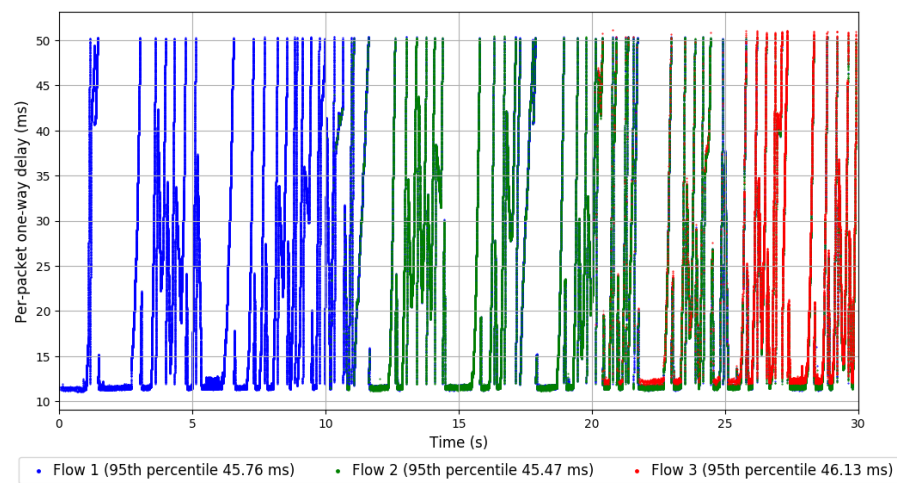
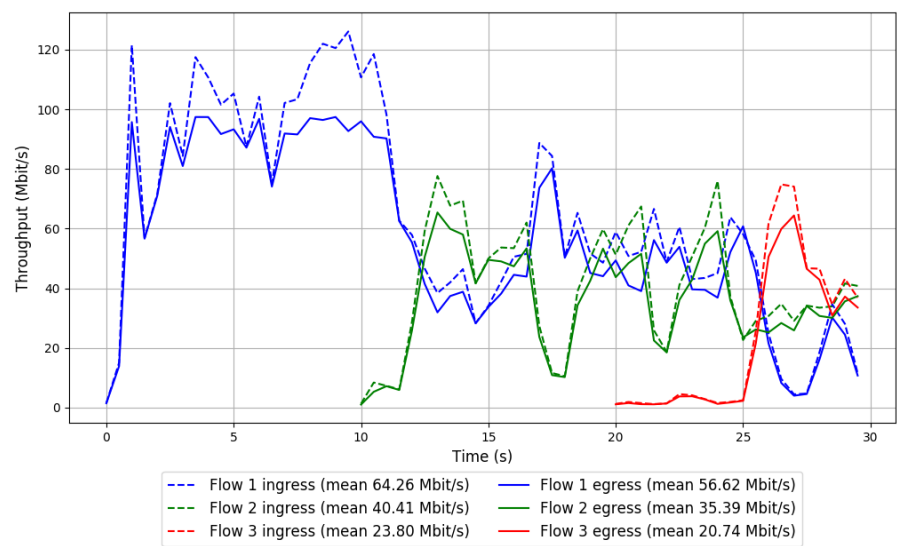


Run 5: Statistics of Vivace-loss

Start at: 2018-04-10 23:15:18
End at: 2018-04-10 23:15:48
Local clock offset: 1.9 ms
Remote clock offset: -6.609 ms

Below is generated by plot.py at 2018-04-11 02:23:28
Datalink statistics
-- Total of 3 flows:
Average throughput: 86.97 Mbit/s
95th percentile per-packet one-way delay: 45.706 ms
Loss rate: 12.02%
-- Flow 1:
Average throughput: 56.62 Mbit/s
95th percentile per-packet one-way delay: 45.758 ms
Loss rate: 11.78%
-- Flow 2:
Average throughput: 35.39 Mbit/s
95th percentile per-packet one-way delay: 45.474 ms
Loss rate: 12.40%
-- Flow 3:
Average throughput: 20.74 Mbit/s
95th percentile per-packet one-way delay: 46.133 ms
Loss rate: 12.69%

Run 5: Report of Vivace-loss — Data Link



Run 6: Statistics of Vivace-loss

Start at: 2018-04-10 23:36:35

End at: 2018-04-10 23:37:05

Local clock offset: -1.008 ms

Remote clock offset: -8.37 ms

Below is generated by plot.py at 2018-04-11 02:23:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.99 Mbit/s

95th percentile per-packet one-way delay: 46.056 ms

Loss rate: 12.45%

-- Flow 1:

Average throughput: 59.91 Mbit/s

95th percentile per-packet one-way delay: 45.475 ms

Loss rate: 11.28%

-- Flow 2:

Average throughput: 35.60 Mbit/s

95th percentile per-packet one-way delay: 46.923 ms

Loss rate: 14.92%

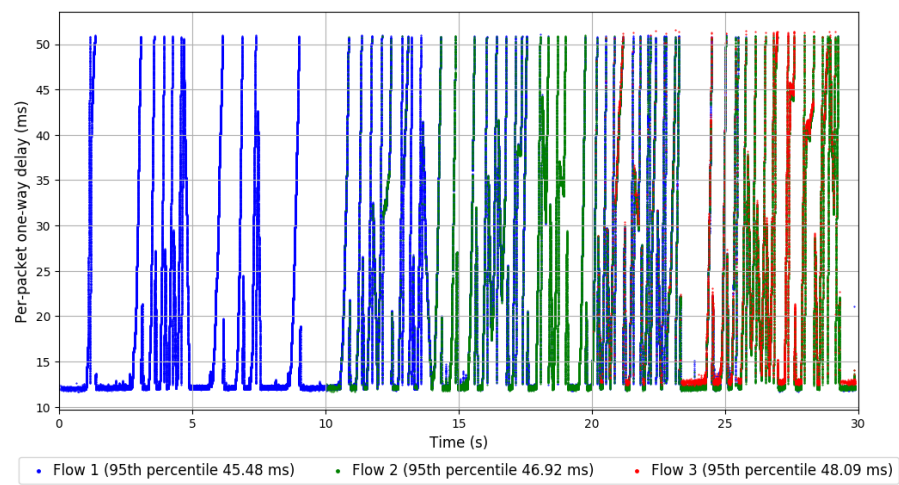
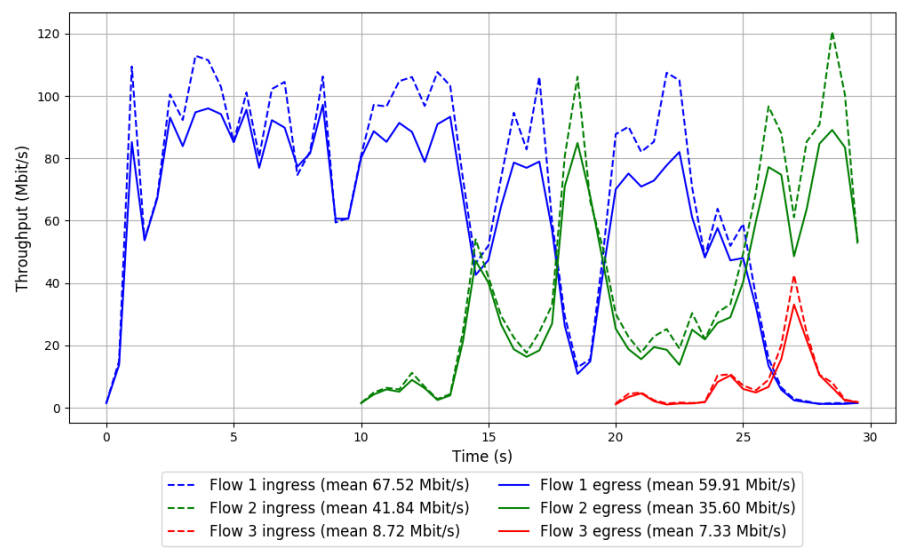
-- Flow 3:

Average throughput: 7.33 Mbit/s

95th percentile per-packet one-way delay: 48.087 ms

Loss rate: 15.94%

Run 6: Report of Vivace-loss — Data Link

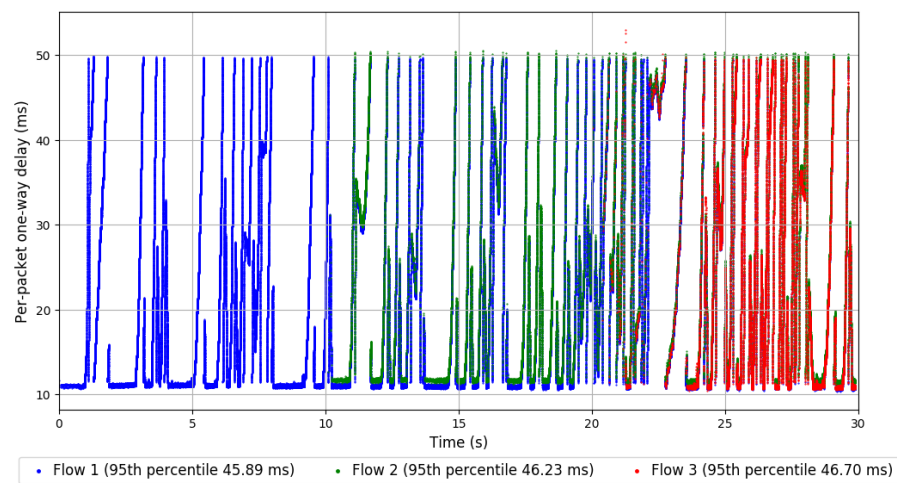
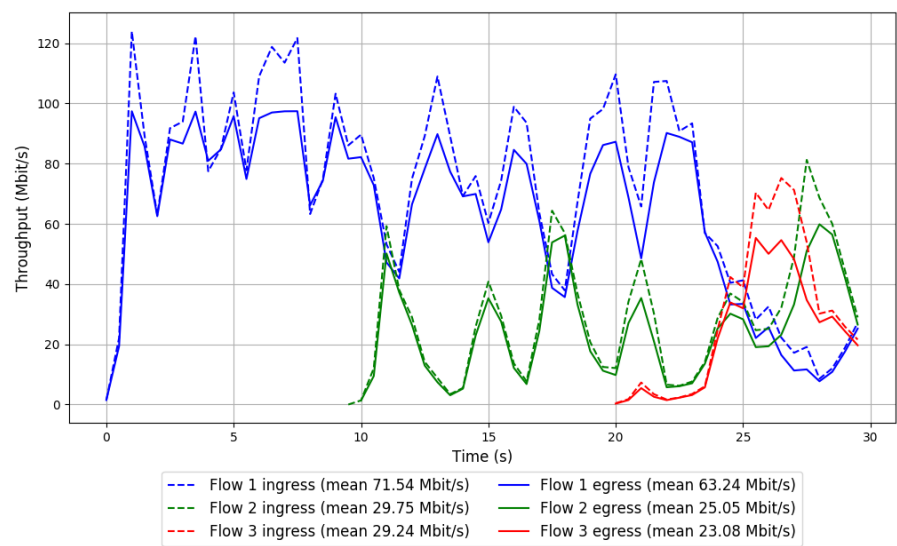


Run 7: Statistics of Vivace-loss

Start at: 2018-04-10 23:57:44
End at: 2018-04-10 23:58:14
Local clock offset: -0.442 ms
Remote clock offset: -6.543 ms

Below is generated by plot.py at 2018-04-11 02:23:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 87.49 Mbit/s
95th percentile per-packet one-way delay: 45.997 ms
Loss rate: 13.37%
-- Flow 1:
Average throughput: 63.24 Mbit/s
95th percentile per-packet one-way delay: 45.891 ms
Loss rate: 11.61%
-- Flow 2:
Average throughput: 25.05 Mbit/s
95th percentile per-packet one-way delay: 46.225 ms
Loss rate: 15.86%
-- Flow 3:
Average throughput: 23.08 Mbit/s
95th percentile per-packet one-way delay: 46.697 ms
Loss rate: 21.31%

Run 7: Report of Vivace-loss — Data Link



Run 8: Statistics of Vivace-loss

Start at: 2018-04-11 00:19:26

End at: 2018-04-11 00:19:56

Local clock offset: -0.534 ms

Remote clock offset: 2.327 ms

Below is generated by plot.py at 2018-04-11 02:23:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.80 Mbit/s

95th percentile per-packet one-way delay: 45.383 ms

Loss rate: 11.73%

-- Flow 1:

Average throughput: 59.01 Mbit/s

95th percentile per-packet one-way delay: 45.551 ms

Loss rate: 11.48%

-- Flow 2:

Average throughput: 30.45 Mbit/s

95th percentile per-packet one-way delay: 44.675 ms

Loss rate: 12.03%

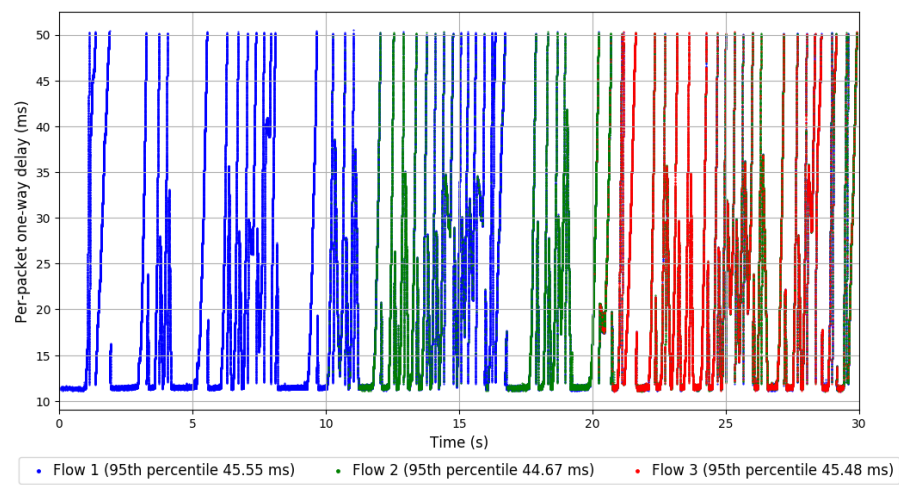
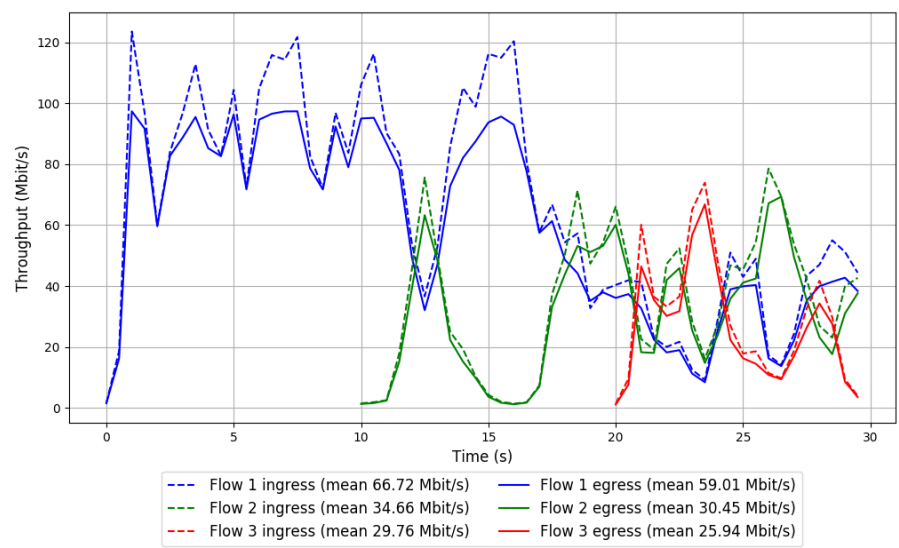
-- Flow 3:

Average throughput: 25.94 Mbit/s

95th percentile per-packet one-way delay: 45.475 ms

Loss rate: 12.71%

Run 8: Report of Vivace-loss — Data Link



Run 9: Statistics of Vivace-loss

Start at: 2018-04-11 00:40:49

End at: 2018-04-11 00:41:19

Local clock offset: 1.433 ms

Remote clock offset: 2.689 ms

Below is generated by plot.py at 2018-04-11 02:24:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.16 Mbit/s

95th percentile per-packet one-way delay: 47.638 ms

Loss rate: 12.08%

-- Flow 1:

Average throughput: 47.59 Mbit/s

95th percentile per-packet one-way delay: 46.813 ms

Loss rate: 11.21%

-- Flow 2:

Average throughput: 45.95 Mbit/s

95th percentile per-packet one-way delay: 48.653 ms

Loss rate: 13.23%

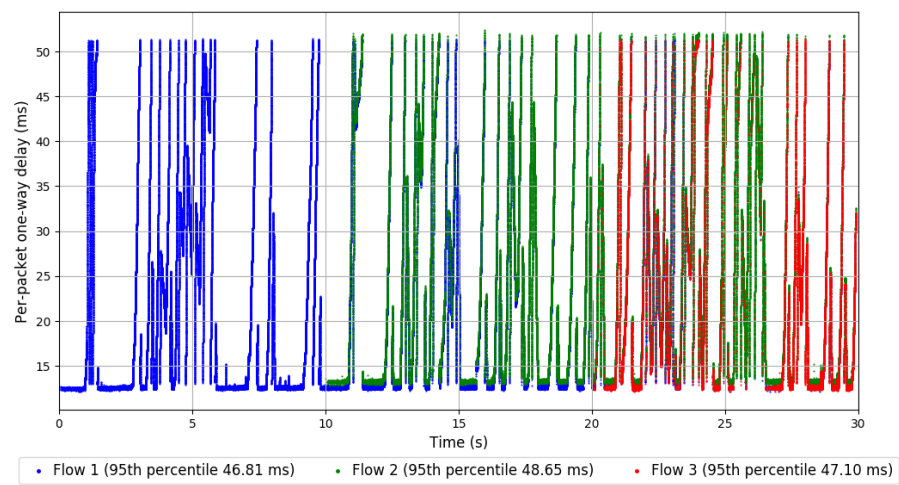
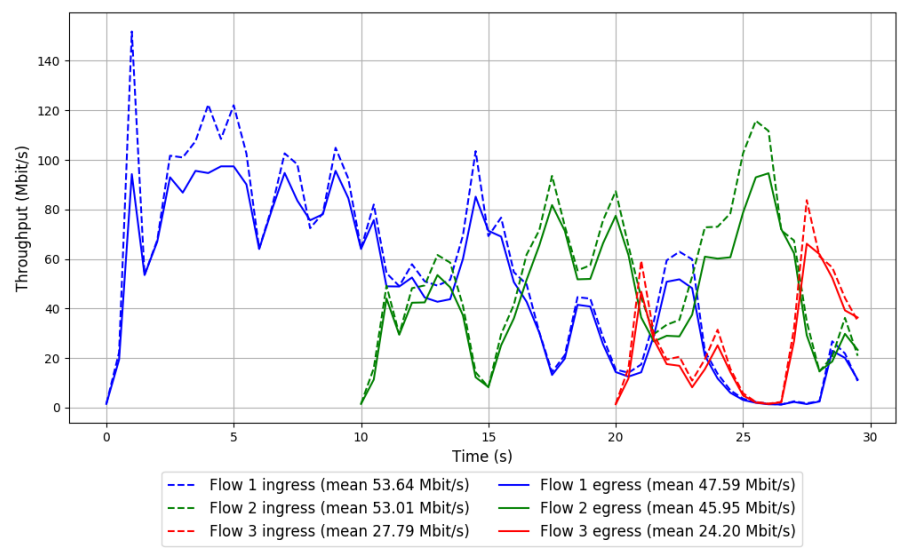
-- Flow 3:

Average throughput: 24.20 Mbit/s

95th percentile per-packet one-way delay: 47.102 ms

Loss rate: 12.73%

Run 9: Report of Vivace-loss — Data Link



Run 10: Statistics of Vivace-loss

Start at: 2018-04-11 01:02:26

End at: 2018-04-11 01:02:56

Local clock offset: 1.281 ms

Remote clock offset: 3.415 ms

Below is generated by plot.py at 2018-04-11 02:24:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.54 Mbit/s

95th percentile per-packet one-way delay: 46.808 ms

Loss rate: 12.38%

-- Flow 1:

Average throughput: 52.83 Mbit/s

95th percentile per-packet one-way delay: 46.376 ms

Loss rate: 11.45%

-- Flow 2:

Average throughput: 49.77 Mbit/s

95th percentile per-packet one-way delay: 47.403 ms

Loss rate: 13.74%

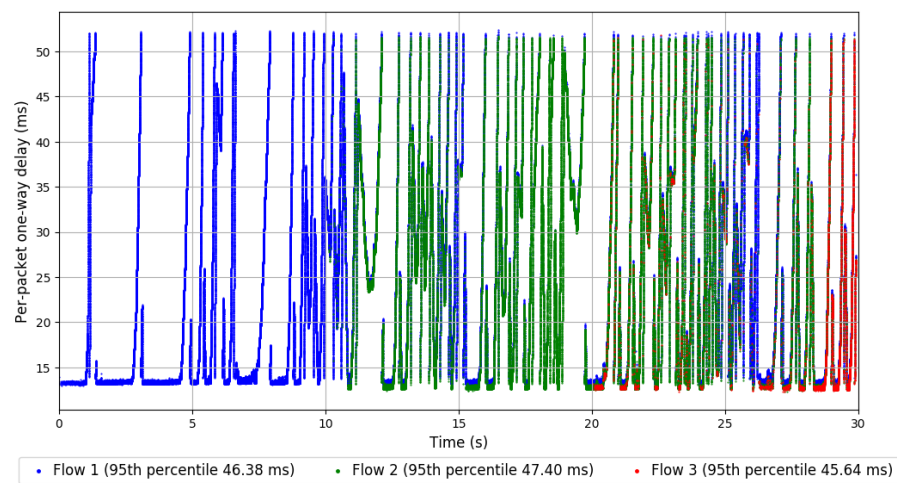
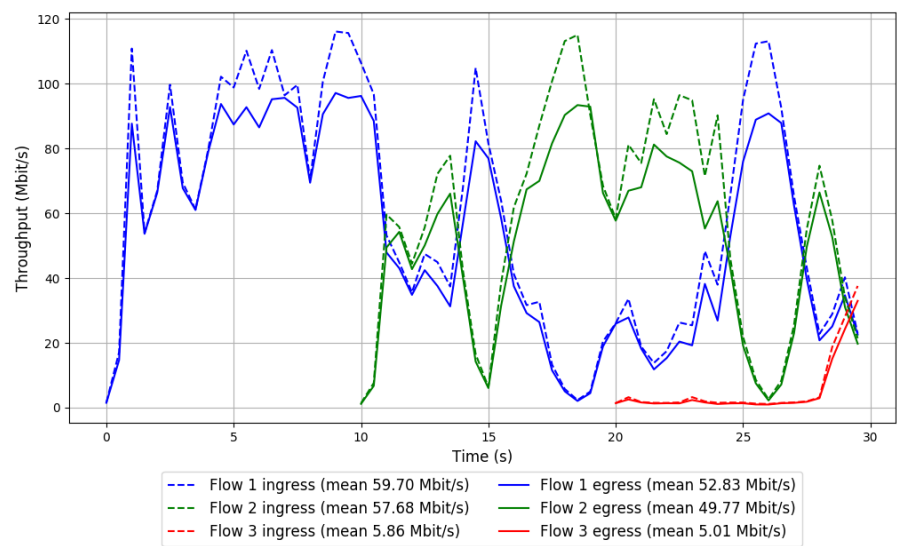
-- Flow 3:

Average throughput: 5.01 Mbit/s

95th percentile per-packet one-way delay: 45.637 ms

Loss rate: 14.41%

Run 10: Report of Vivace-loss — Data Link

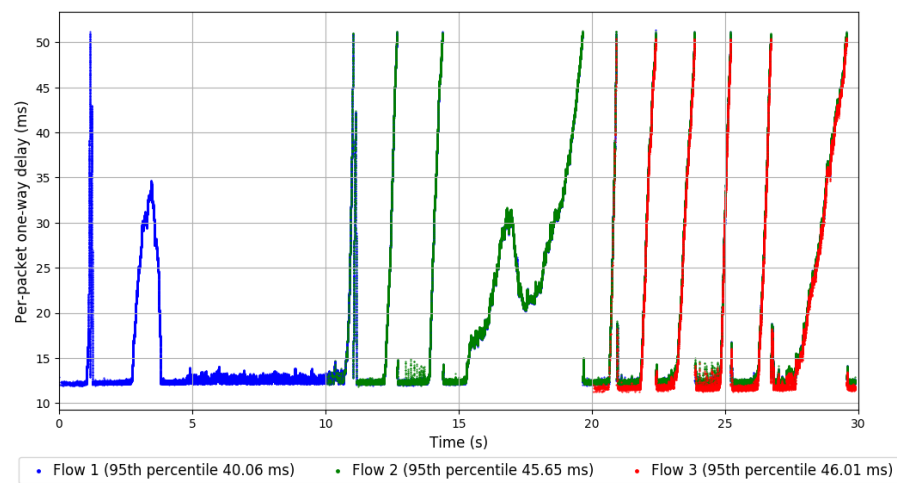
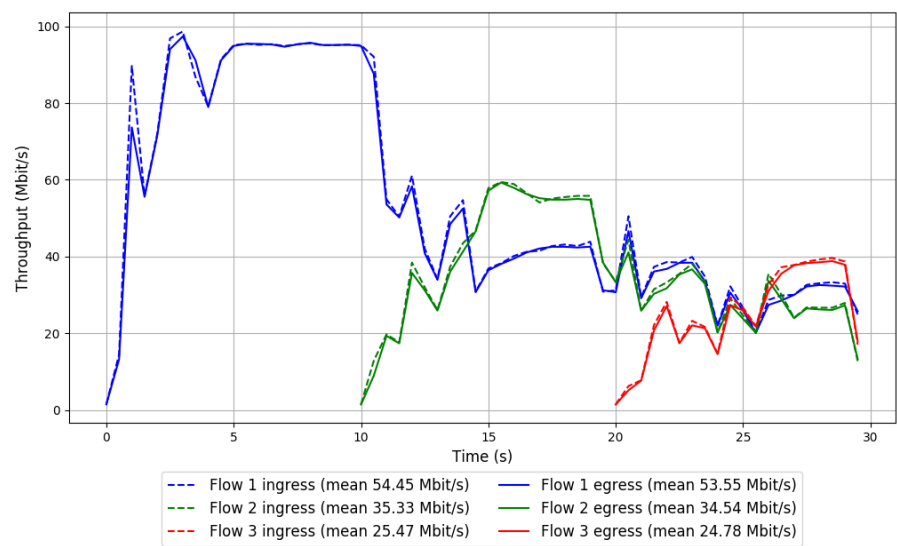


Run 1: Statistics of Vivace-LTE

Start at: 2018-04-10 22:05:26
End at: 2018-04-10 22:05:56
Local clock offset: 0.994 ms
Remote clock offset: -2.916 ms

Below is generated by plot.py at 2018-04-11 02:24:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 84.70 Mbit/s
95th percentile per-packet one-way delay: 43.441 ms
Loss rate: 1.91%
-- Flow 1:
Average throughput: 53.55 Mbit/s
95th percentile per-packet one-way delay: 40.063 ms
Loss rate: 1.65%
-- Flow 2:
Average throughput: 34.54 Mbit/s
95th percentile per-packet one-way delay: 45.649 ms
Loss rate: 2.24%
-- Flow 3:
Average throughput: 24.78 Mbit/s
95th percentile per-packet one-way delay: 46.008 ms
Loss rate: 2.74%

Run 1: Report of Vivace-LTE — Data Link



Run 2: Statistics of Vivace-LTE

Start at: 2018-04-10 22:27:52

End at: 2018-04-10 22:28:22

Local clock offset: -0.114 ms

Remote clock offset: 3.534 ms

Below is generated by plot.py at 2018-04-11 02:24:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.08 Mbit/s

95th percentile per-packet one-way delay: 45.636 ms

Loss rate: 2.02%

-- Flow 1:

Average throughput: 52.17 Mbit/s

95th percentile per-packet one-way delay: 43.834 ms

Loss rate: 1.66%

-- Flow 2:

Average throughput: 36.93 Mbit/s

95th percentile per-packet one-way delay: 47.822 ms

Loss rate: 2.28%

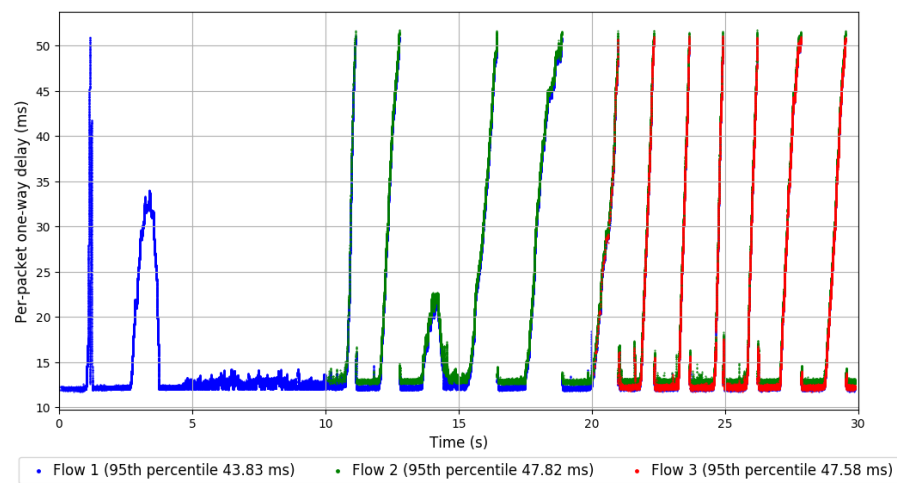
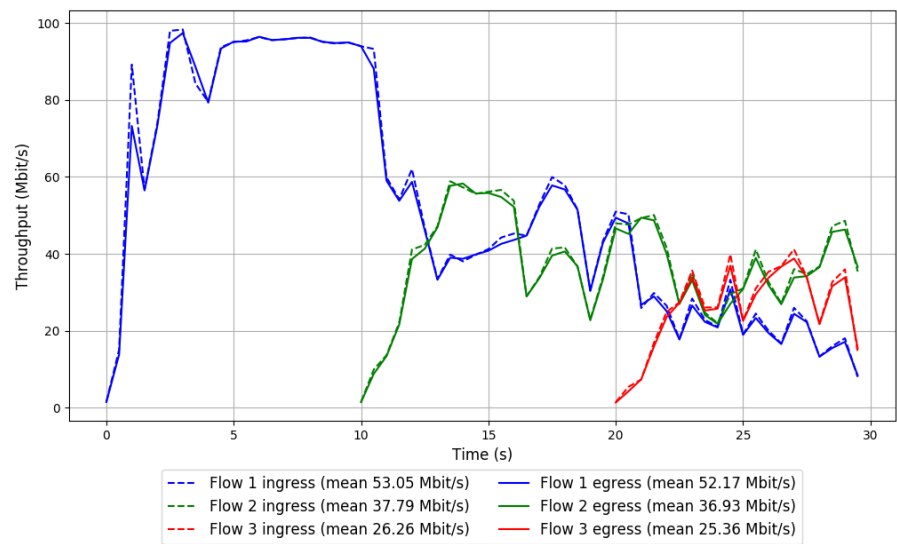
-- Flow 3:

Average throughput: 25.36 Mbit/s

95th percentile per-packet one-way delay: 47.582 ms

Loss rate: 3.44%

Run 2: Report of Vivace-LTE — Data Link



Run 3: Statistics of Vivace-LTE

Start at: 2018-04-10 22:49:29

End at: 2018-04-10 22:49:59

Local clock offset: 0.208 ms

Remote clock offset: 3.477 ms

Below is generated by plot.py at 2018-04-11 02:24:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.52 Mbit/s

95th percentile per-packet one-way delay: 48.163 ms

Loss rate: 1.81%

-- Flow 1:

Average throughput: 59.03 Mbit/s

95th percentile per-packet one-way delay: 47.767 ms

Loss rate: 1.46%

-- Flow 2:

Average throughput: 31.29 Mbit/s

95th percentile per-packet one-way delay: 48.703 ms

Loss rate: 2.01%

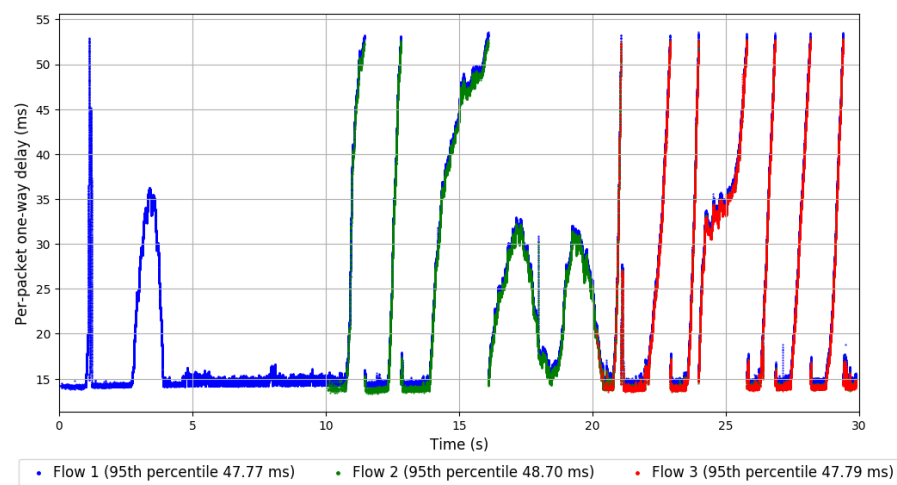
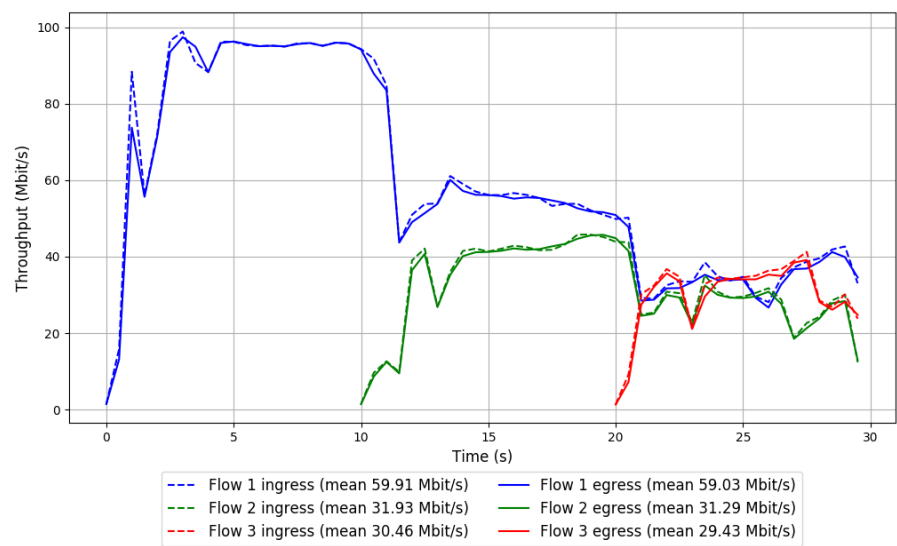
-- Flow 3:

Average throughput: 29.43 Mbit/s

95th percentile per-packet one-way delay: 47.793 ms

Loss rate: 3.48%

Run 3: Report of Vivace-LTE — Data Link

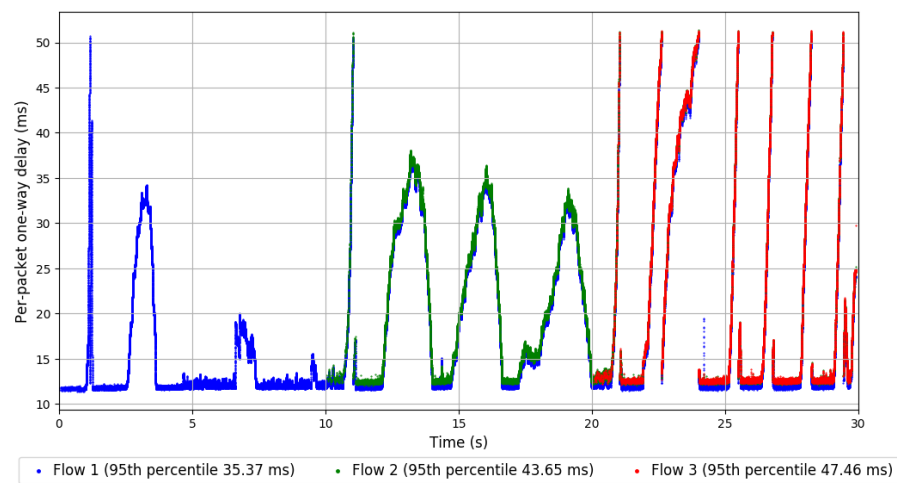
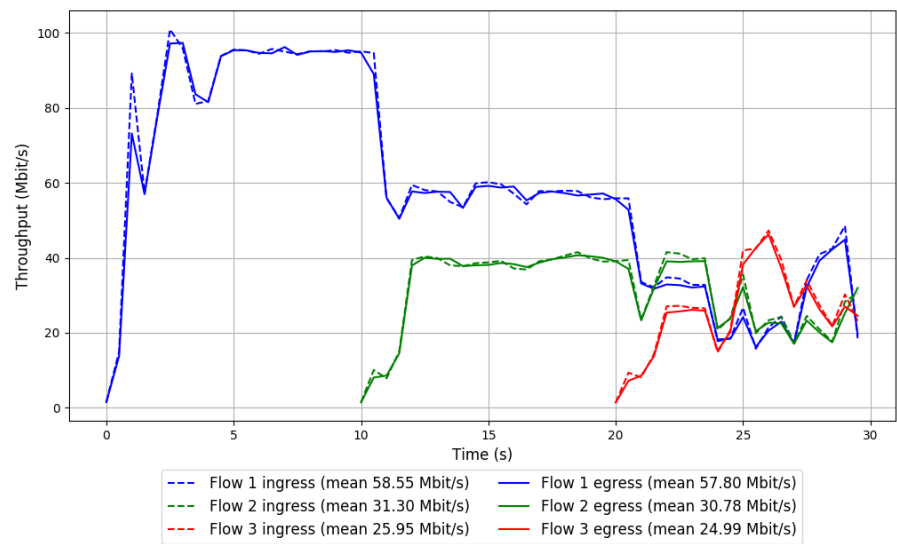


Run 4: Statistics of Vivace-LTE

Start at: 2018-04-10 23:10:38
End at: 2018-04-10 23:11:08
Local clock offset: 1.616 ms
Remote clock offset: -5.929 ms

Below is generated by plot.py at 2018-04-11 02:24:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 86.50 Mbit/s
95th percentile per-packet one-way delay: 41.204 ms
Loss rate: 1.56%
-- Flow 1:
Average throughput: 57.80 Mbit/s
95th percentile per-packet one-way delay: 35.370 ms
Loss rate: 1.25%
-- Flow 2:
Average throughput: 30.78 Mbit/s
95th percentile per-packet one-way delay: 43.649 ms
Loss rate: 1.62%
-- Flow 3:
Average throughput: 24.99 Mbit/s
95th percentile per-packet one-way delay: 47.457 ms
Loss rate: 3.55%

Run 4: Report of Vivace-LTE — Data Link

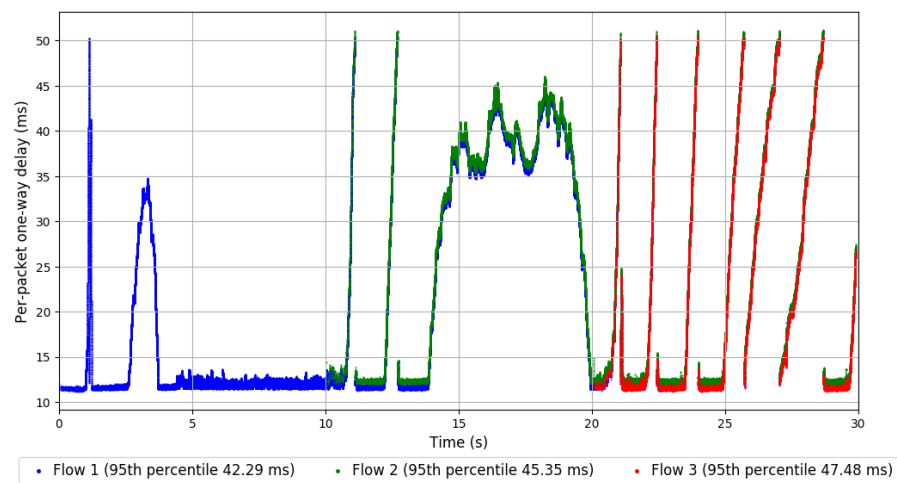
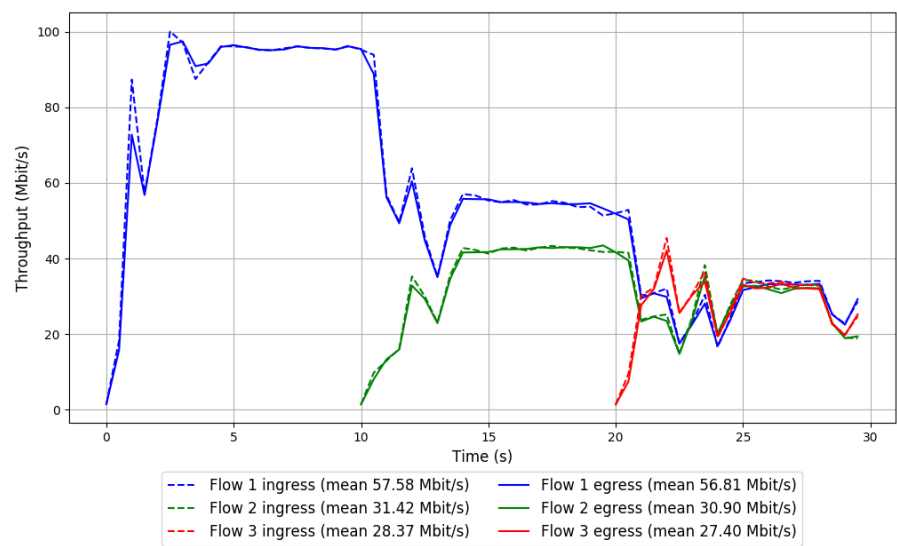


Run 5: Statistics of Vivace-LTE

Start at: 2018-04-10 23:31:56
End at: 2018-04-10 23:32:26
Local clock offset: -0.323 ms
Remote clock offset: -8.154 ms

Below is generated by plot.py at 2018-04-11 02:25:05
Datalink statistics
-- Total of 3 flows:
Average throughput: 86.39 Mbit/s
95th percentile per-packet one-way delay: 43.905 ms
Loss rate: 1.58%
-- Flow 1:
Average throughput: 56.81 Mbit/s
95th percentile per-packet one-way delay: 42.290 ms
Loss rate: 1.29%
-- Flow 2:
Average throughput: 30.90 Mbit/s
95th percentile per-packet one-way delay: 45.346 ms
Loss rate: 1.59%
-- Flow 3:
Average throughput: 27.40 Mbit/s
95th percentile per-packet one-way delay: 47.478 ms
Loss rate: 3.28%

Run 5: Report of Vivace-LTE — Data Link

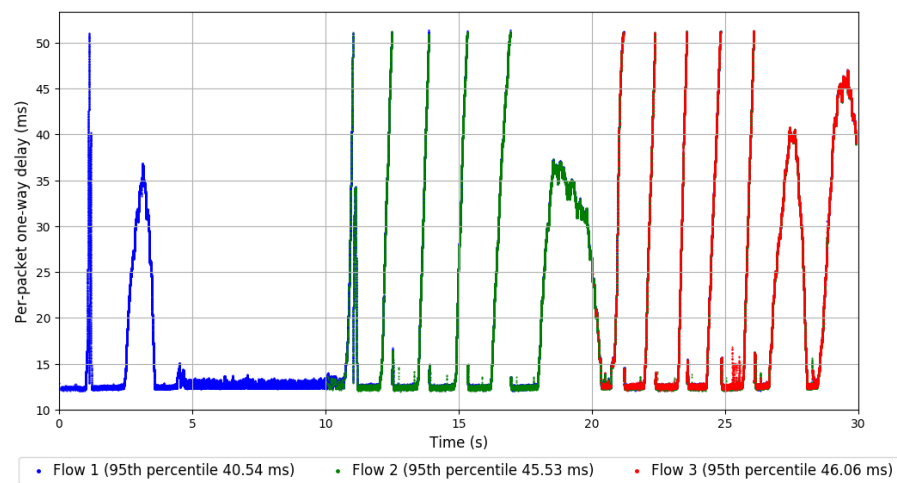
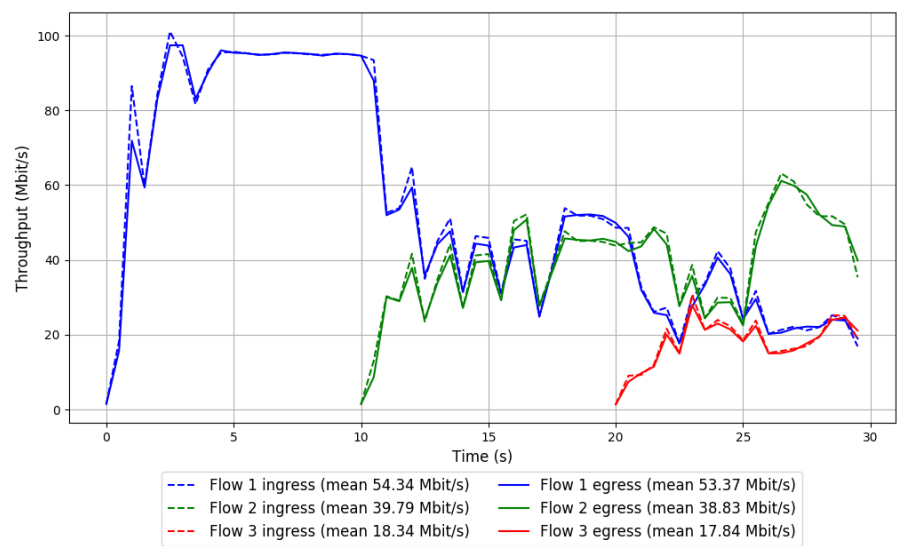


Run 6: Statistics of Vivace-LTE

Start at: 2018-04-10 23:53:06
End at: 2018-04-10 23:53:36
Local clock offset: -0.96 ms
Remote clock offset: -8.779 ms

Below is generated by plot.py at 2018-04-11 02:25:06
Datalink statistics
-- Total of 3 flows:
Average throughput: 85.07 Mbit/s
95th percentile per-packet one-way delay: 44.407 ms
Loss rate: 1.95%
-- Flow 1:
Average throughput: 53.37 Mbit/s
95th percentile per-packet one-way delay: 40.540 ms
Loss rate: 1.71%
-- Flow 2:
Average throughput: 38.83 Mbit/s
95th percentile per-packet one-way delay: 45.526 ms
Loss rate: 2.28%
-- Flow 3:
Average throughput: 17.84 Mbit/s
95th percentile per-packet one-way delay: 46.062 ms
Loss rate: 2.59%

Run 6: Report of Vivace-LTE — Data Link



Run 7: Statistics of Vivace-LTE

Start at: 2018-04-11 00:14:35

End at: 2018-04-11 00:15:05

Local clock offset: -1.184 ms

Remote clock offset: 2.634 ms

Below is generated by plot.py at 2018-04-11 02:25:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.42 Mbit/s

95th percentile per-packet one-way delay: 43.340 ms

Loss rate: 1.72%

-- Flow 1:

Average throughput: 57.75 Mbit/s

95th percentile per-packet one-way delay: 39.623 ms

Loss rate: 1.49%

-- Flow 2:

Average throughput: 37.43 Mbit/s

95th percentile per-packet one-way delay: 46.130 ms

Loss rate: 1.97%

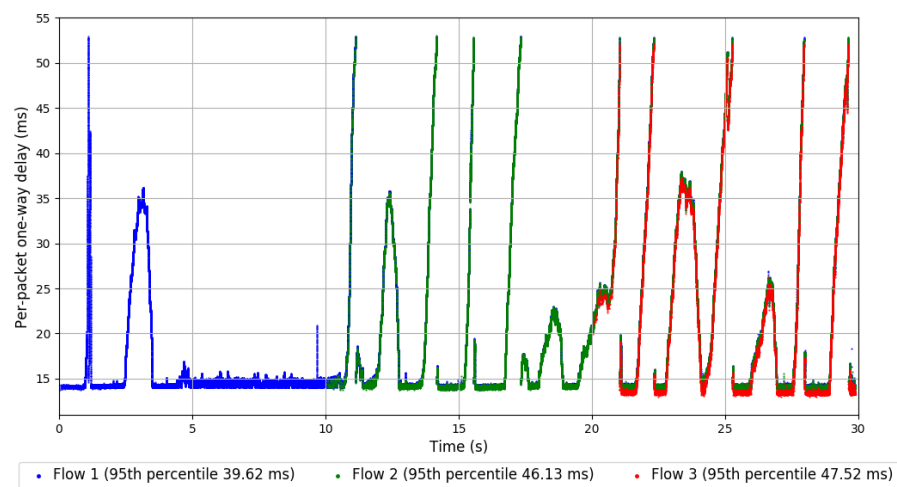
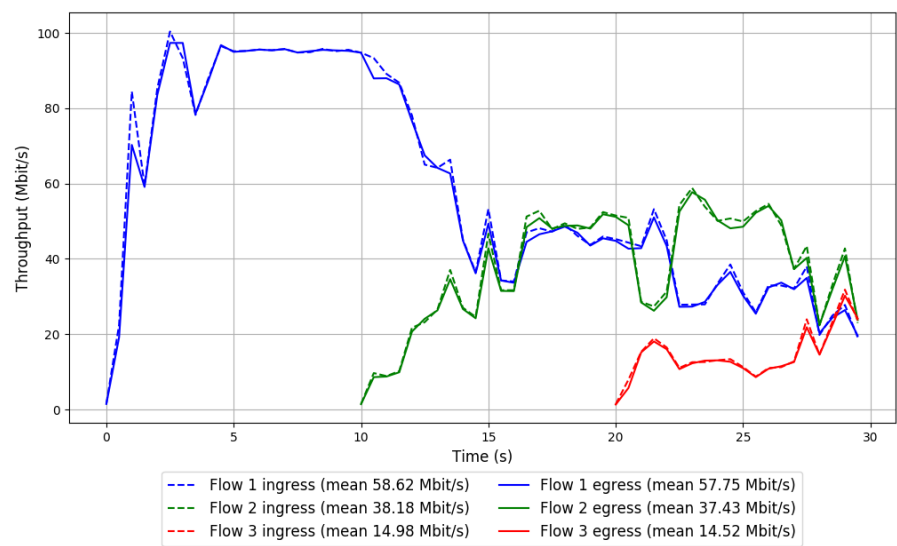
-- Flow 3:

Average throughput: 14.52 Mbit/s

95th percentile per-packet one-way delay: 47.515 ms

Loss rate: 3.15%

Run 7: Report of Vivace-LTE — Data Link



Run 8: Statistics of Vivace-LTE

Start at: 2018-04-11 00:36:06

End at: 2018-04-11 00:36:36

Local clock offset: 0.821 ms

Remote clock offset: 2.579 ms

Below is generated by plot.py at 2018-04-11 02:25:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.64 Mbit/s

95th percentile per-packet one-way delay: 47.110 ms

Loss rate: 2.13%

-- Flow 1:

Average throughput: 56.22 Mbit/s

95th percentile per-packet one-way delay: 46.217 ms

Loss rate: 1.73%

-- Flow 2:

Average throughput: 33.49 Mbit/s

95th percentile per-packet one-way delay: 48.252 ms

Loss rate: 2.72%

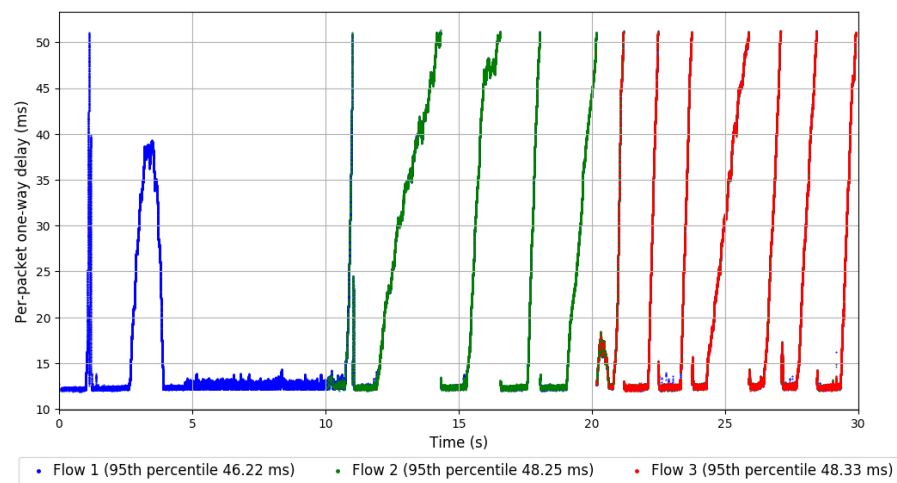
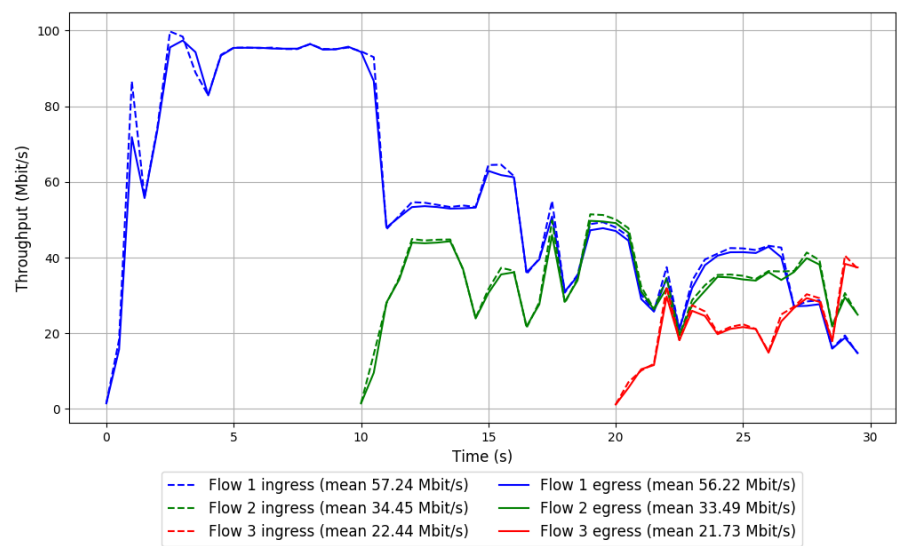
-- Flow 3:

Average throughput: 21.73 Mbit/s

95th percentile per-packet one-way delay: 48.331 ms

Loss rate: 3.38%

Run 8: Report of Vivace-LTE — Data Link



Run 9: Statistics of Vivace-LTE

Start at: 2018-04-11 00:57:46

End at: 2018-04-11 00:58:16

Local clock offset: 1.933 ms

Remote clock offset: 1.836 ms

Below is generated by plot.py at 2018-04-11 02:25:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.22 Mbit/s

95th percentile per-packet one-way delay: 39.608 ms

Loss rate: 1.60%

-- Flow 1:

Average throughput: 56.03 Mbit/s

95th percentile per-packet one-way delay: 33.662 ms

Loss rate: 1.25%

-- Flow 2:

Average throughput: 37.37 Mbit/s

95th percentile per-packet one-way delay: 43.100 ms

Loss rate: 1.93%

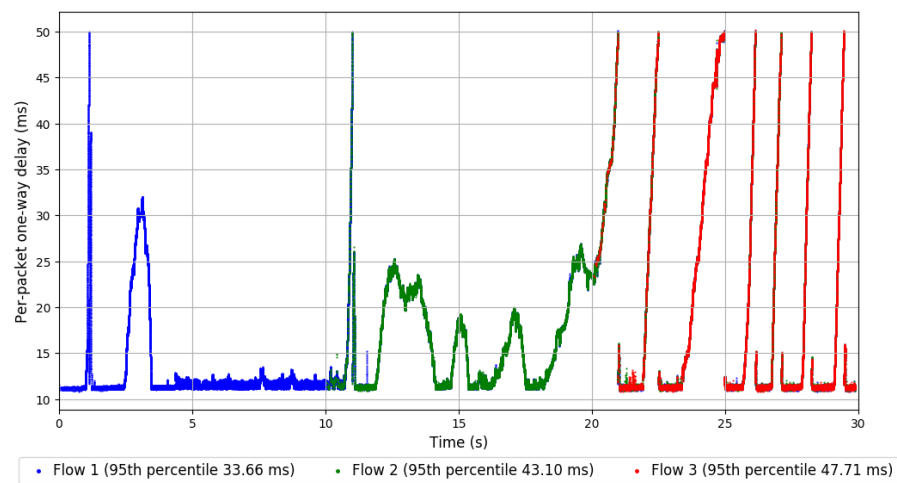
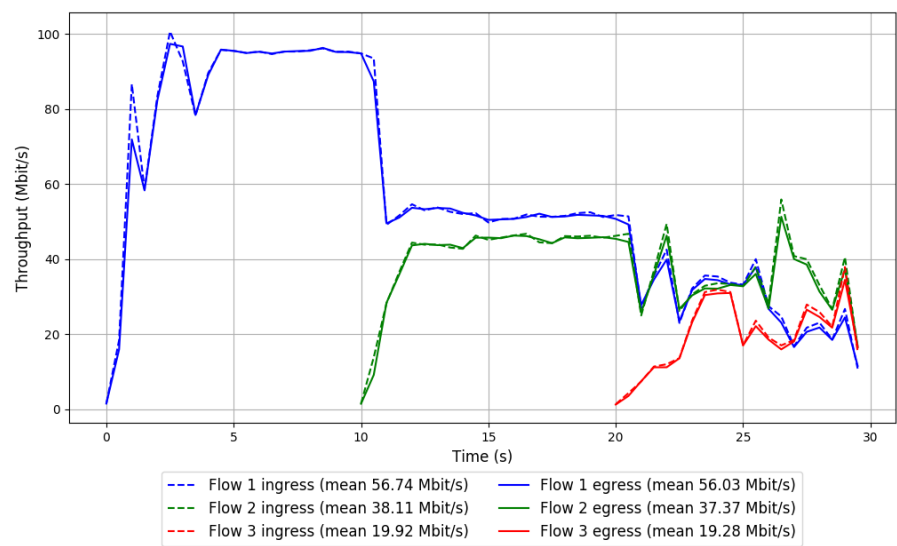
-- Flow 3:

Average throughput: 19.28 Mbit/s

95th percentile per-packet one-way delay: 47.707 ms

Loss rate: 3.34%

Run 9: Report of Vivace-LTE — Data Link



Run 10: Statistics of Vivace-LTE

Start at: 2018-04-11 01:19:01
End at: 2018-04-11 01:19:31
Local clock offset: 1.503 ms
Remote clock offset: 10.555 ms

Below is generated by plot.py at 2018-04-11 02:25:37
Datalink statistics
-- Total of 3 flows:
Average throughput: 84.71 Mbit/s
95th percentile per-packet one-way delay: 42.257 ms
Loss rate: 2.04%
-- Flow 1:
Average throughput: 60.00 Mbit/s
95th percentile per-packet one-way delay: 39.881 ms
Loss rate: 1.67%
-- Flow 2:
Average throughput: 29.29 Mbit/s
95th percentile per-packet one-way delay: 44.742 ms
Loss rate: 2.84%
-- Flow 3:
Average throughput: 15.89 Mbit/s
95th percentile per-packet one-way delay: 44.322 ms
Loss rate: 3.37%

Run 10: Report of Vivace-LTE — Data Link

