

Pantheon Report

Generated at 2018-04-11 02:37:23 (UTC).

Data path: Colombia Ethernet (*remote*) → AWS Brazil 2 Ethernet (*local*).

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).

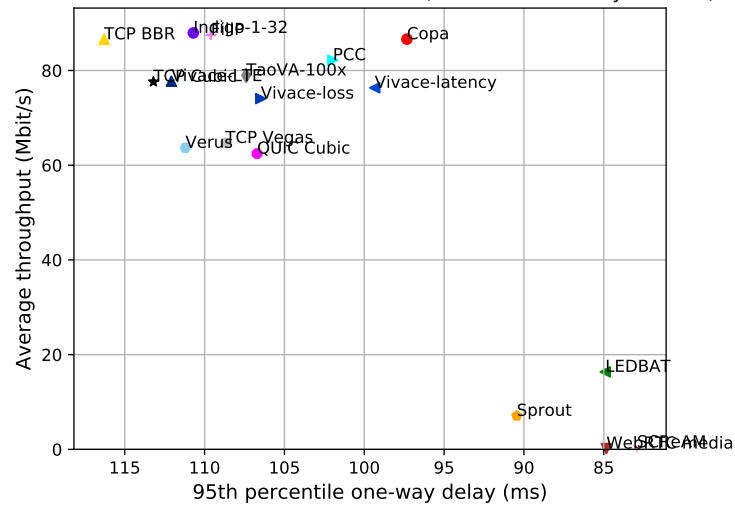
Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo_fast**).

NTP offsets were measured against **gps.ntp.br** and have been applied to correct the timestamps in logs.

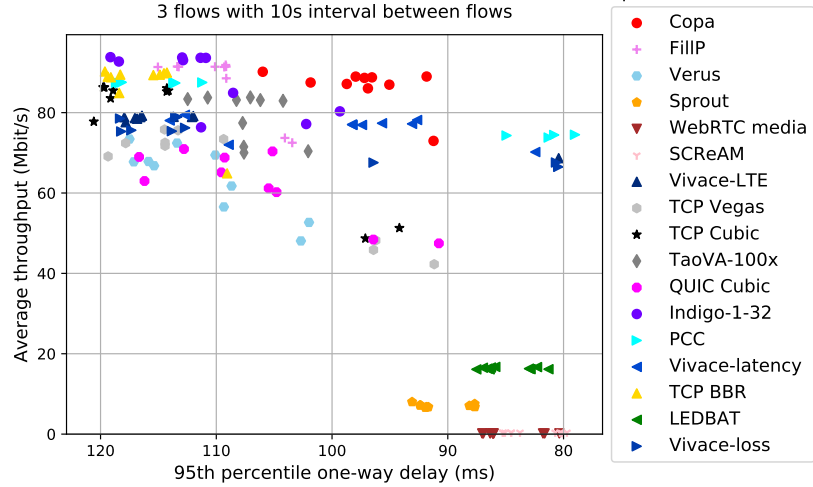
Git summary:

```
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 Colombia Ethernet to AWS Brazil 2 Ethernet, 10 runs of 30s each per scheme
 3 flows with 10s interval between flows (mean of all runs by scheme)



test from Colombia Ethernet to AWS Brazil 2 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	52.42	37.51	28.39	114.95	116.32	117.19	1.58	1.99	3.86
TCP Cubic	10	44.53	36.63	26.85	112.37	113.25	113.77	0.75	1.40	3.41
LEDBAT	10	10.73	6.90	3.31	84.98	84.70	84.24	1.22	1.87	3.79
PCC	10	62.18	20.82	19.12	101.40	102.00	102.23	2.97	4.07	7.36
QUIC Cubic	10	36.95	29.10	19.08	105.76	106.98	105.33	1.04	1.34	2.50
SCReAM	10	0.21	0.21	0.22	82.68	82.70	82.61	0.60	0.84	1.87
WebRTC media	10	0.06	0.06	0.05	84.55	84.71	85.09	0.02	0.00	0.32
Sprout	10	3.67	3.55	3.24	90.13	90.33	90.02	0.63	1.13	2.49
TaoVA-100x	10	48.08	36.72	20.55	105.56	107.61	109.69	4.73	6.55	5.62
TCP Vegas	10	32.30	35.11	27.80	108.28	108.98	109.27	0.81	1.03	2.60
Verus	10	35.19	31.77	22.83	108.94	111.24	113.40	3.90	4.31	5.57
Copa	10	69.61	19.80	11.79	96.74	98.09	98.73	1.86	2.62	4.20
FillP	10	51.54	38.40	32.17	108.04	110.03	111.33	3.12	6.80	13.02
Indigo-1-32	10	59.48	33.20	20.14	109.92	110.99	114.55	5.88	4.70	8.11
Vivace-latency	10	62.78	16.61	7.84	98.51	100.54	100.10	0.73	2.10	4.40
Vivace-loss	10	52.25	23.75	18.68	106.09	105.00	105.20	0.98	3.75	9.18
Vivace-LTE	10	52.61	27.88	20.46	110.94	112.46	112.52	0.89	2.33	4.88

Run 1: Statistics of TCP BBR

Start at: 2018-04-10 18:29:50

End at: 2018-04-10 18:30:20

Local clock offset: -6.385 ms

Remote clock offset: 4.142 ms

Below is generated by plot.py at 2018-04-11 02:14:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.46 Mbit/s

95th percentile per-packet one-way delay: 118.295 ms

Loss rate: 0.80%

-- Flow 1:

Average throughput: 54.33 Mbit/s

95th percentile per-packet one-way delay: 117.437 ms

Loss rate: 0.44%

-- Flow 2:

Average throughput: 38.72 Mbit/s

95th percentile per-packet one-way delay: 118.179 ms

Loss rate: 0.98%

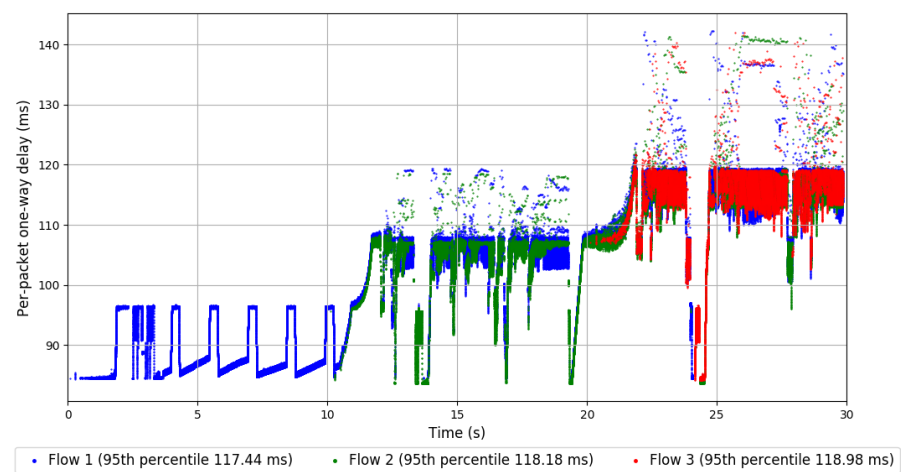
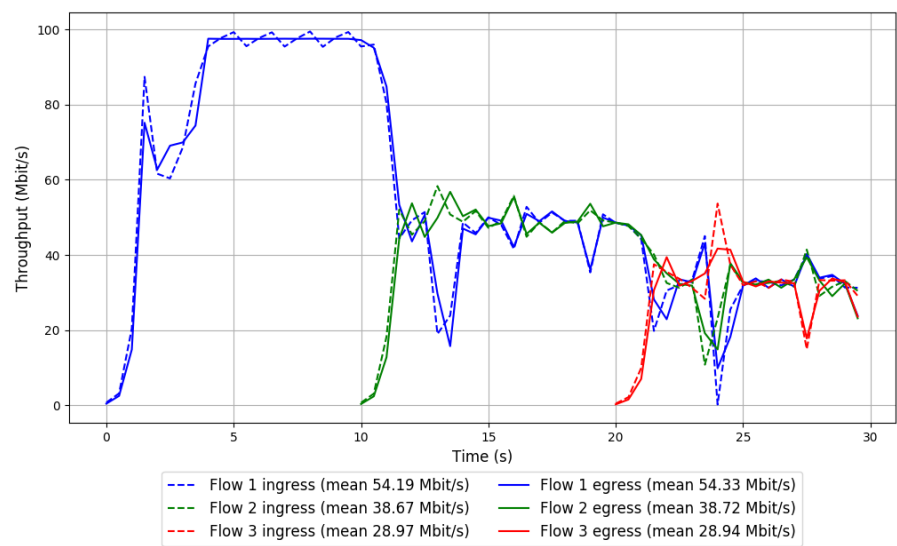
-- Flow 3:

Average throughput: 28.94 Mbit/s

95th percentile per-packet one-way delay: 118.982 ms

Loss rate: 2.33%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-04-10 18:53:59

End at: 2018-04-10 18:54:29

Local clock offset: -6.255 ms

Remote clock offset: 9.244 ms

Below is generated by plot.py at 2018-04-11 02:14:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 64.90 Mbit/s

95th percentile per-packet one-way delay: 109.065 ms

Loss rate: 11.43%

-- Flow 1:

Average throughput: 38.92 Mbit/s

95th percentile per-packet one-way delay: 104.099 ms

Loss rate: 10.07%

-- Flow 2:

Average throughput: 28.03 Mbit/s

95th percentile per-packet one-way delay: 109.345 ms

Loss rate: 12.51%

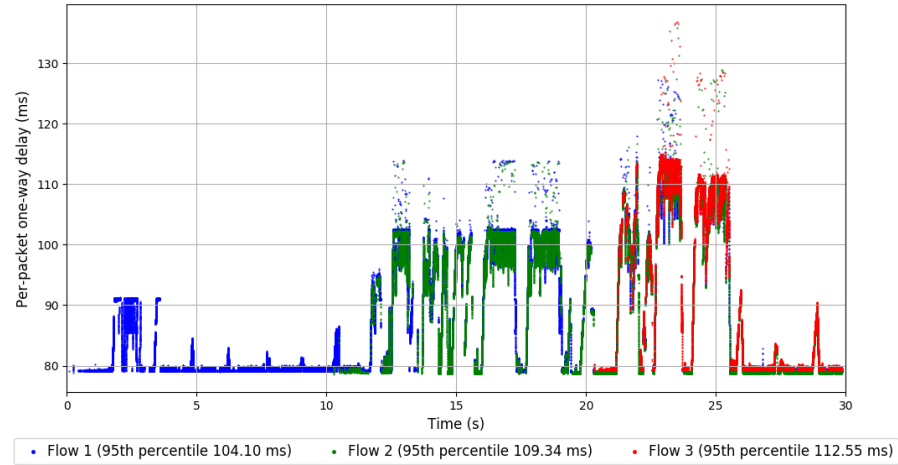
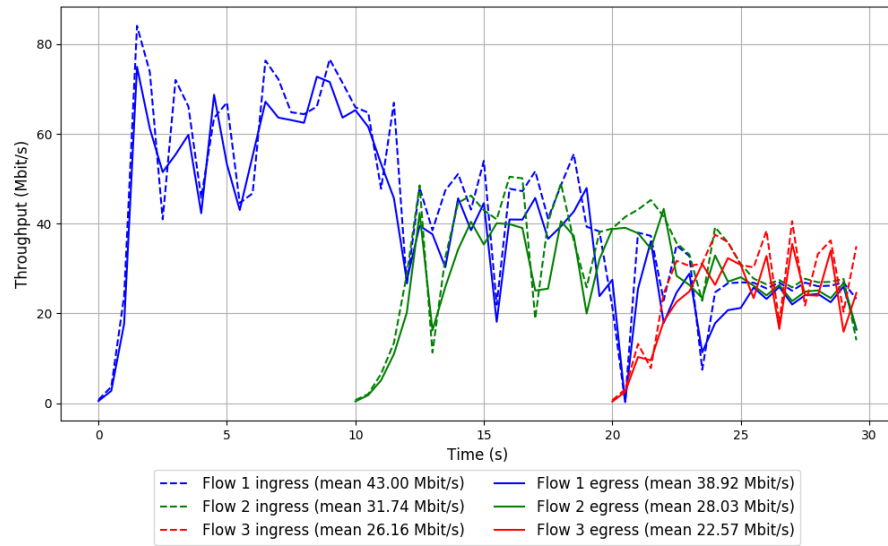
-- Flow 3:

Average throughput: 22.57 Mbit/s

95th percentile per-packet one-way delay: 112.551 ms

Loss rate: 15.57%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-04-10 19:18:09

End at: 2018-04-10 19:18:39

Local clock offset: -5.463 ms

Remote clock offset: 7.3 ms

Below is generated by plot.py at 2018-04-11 02:14:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.80 Mbit/s

95th percentile per-packet one-way delay: 114.519 ms

Loss rate: 0.79%

-- Flow 1:

Average throughput: 54.26 Mbit/s

95th percentile per-packet one-way delay: 114.322 ms

Loss rate: 0.44%

-- Flow 2:

Average throughput: 39.13 Mbit/s

95th percentile per-packet one-way delay: 114.290 ms

Loss rate: 0.91%

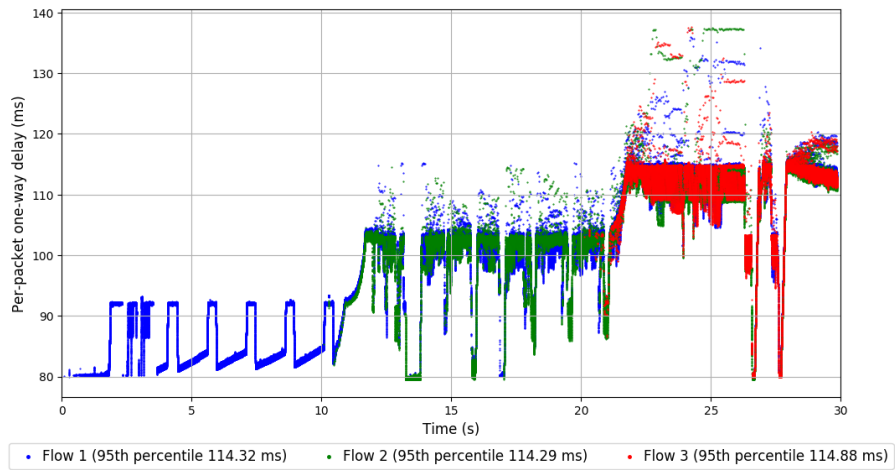
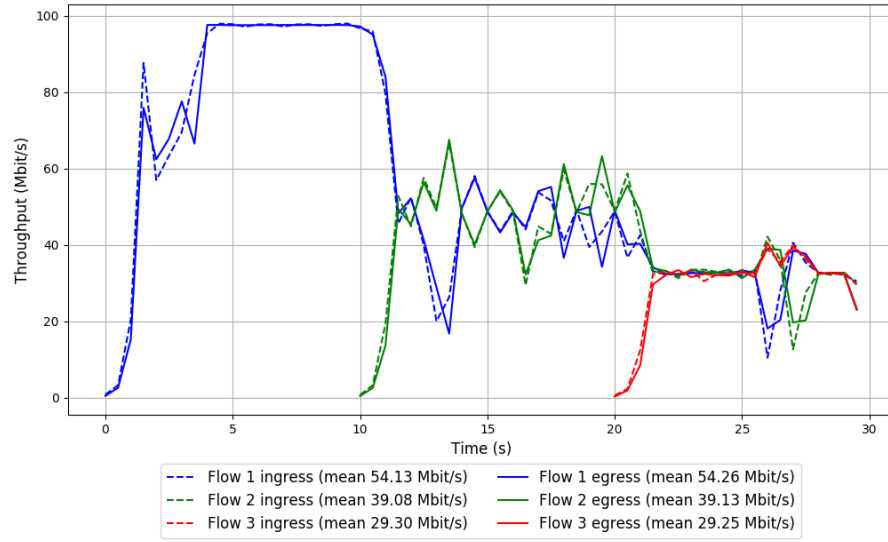
-- Flow 3:

Average throughput: 29.25 Mbit/s

95th percentile per-packet one-way delay: 114.877 ms

Loss rate: 2.40%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-04-10 19:42:06

End at: 2018-04-10 19:42:36

Local clock offset: -5.088 ms

Remote clock offset: 2.894 ms

Below is generated by plot.py at 2018-04-11 02:14:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.95 Mbit/s

95th percentile per-packet one-way delay: 119.374 ms

Loss rate: 0.81%

-- Flow 1:

Average throughput: 54.63 Mbit/s

95th percentile per-packet one-way delay: 118.331 ms

Loss rate: 0.46%

-- Flow 2:

Average throughput: 37.73 Mbit/s

95th percentile per-packet one-way delay: 119.604 ms

Loss rate: 0.89%

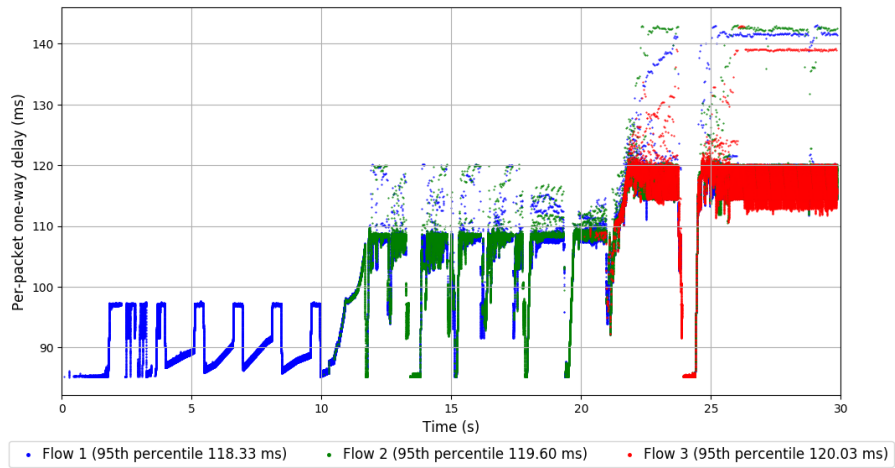
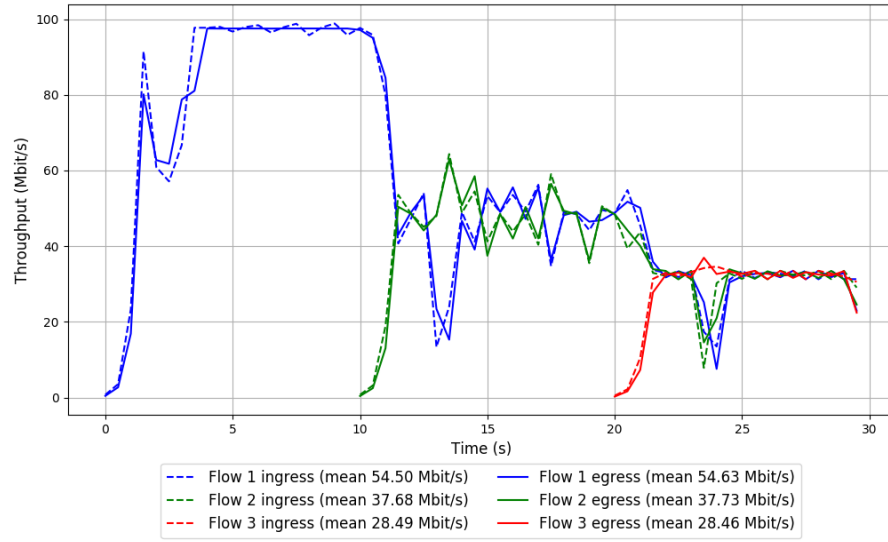
-- Flow 3:

Average throughput: 28.46 Mbit/s

95th percentile per-packet one-way delay: 120.030 ms

Loss rate: 2.63%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-04-10 20:06:35

End at: 2018-04-10 20:07:05

Local clock offset: -5.08 ms

Remote clock offset: 8.354 ms

Below is generated by plot.py at 2018-04-11 02:14:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.35 Mbit/s

95th percentile per-packet one-way delay: 115.434 ms

Loss rate: 0.80%

-- Flow 1:

Average throughput: 54.74 Mbit/s

95th percentile per-packet one-way delay: 114.282 ms

Loss rate: 0.43%

-- Flow 2:

Average throughput: 38.00 Mbit/s

95th percentile per-packet one-way delay: 115.477 ms

Loss rate: 0.95%

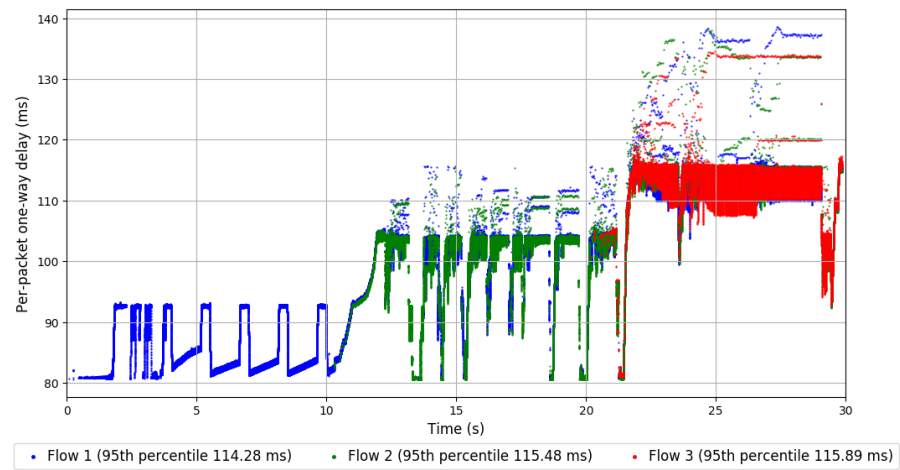
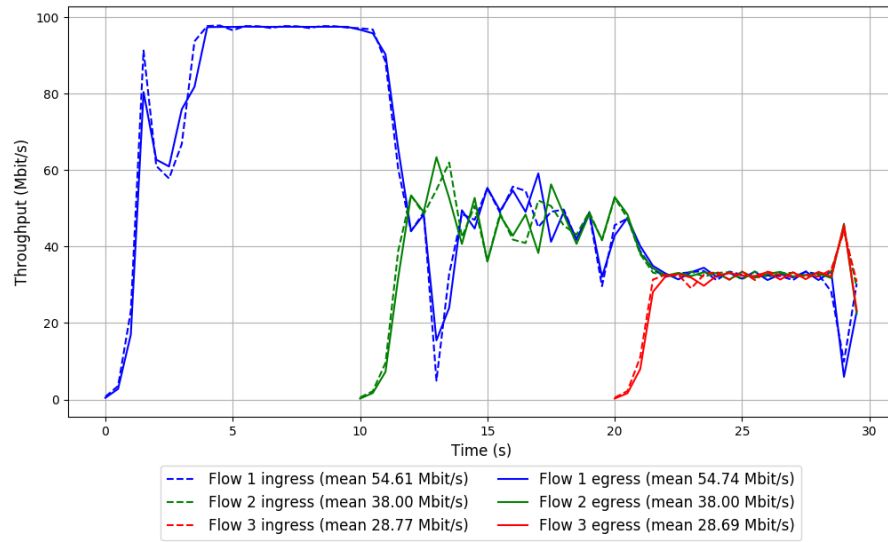
-- Flow 3:

Average throughput: 28.69 Mbit/s

95th percentile per-packet one-way delay: 115.895 ms

Loss rate: 2.51%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-04-10 20:30:42

End at: 2018-04-10 20:31:12

Local clock offset: -6.44 ms

Remote clock offset: 4.337 ms

Below is generated by plot.py at 2018-04-11 02:14:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.88 Mbit/s

95th percentile per-packet one-way delay: 118.383 ms

Loss rate: 1.74%

-- Flow 1:

Average throughput: 49.79 Mbit/s

95th percentile per-packet one-way delay: 117.027 ms

Loss rate: 2.04%

-- Flow 2:

Average throughput: 38.28 Mbit/s

95th percentile per-packet one-way delay: 118.360 ms

Loss rate: 0.87%

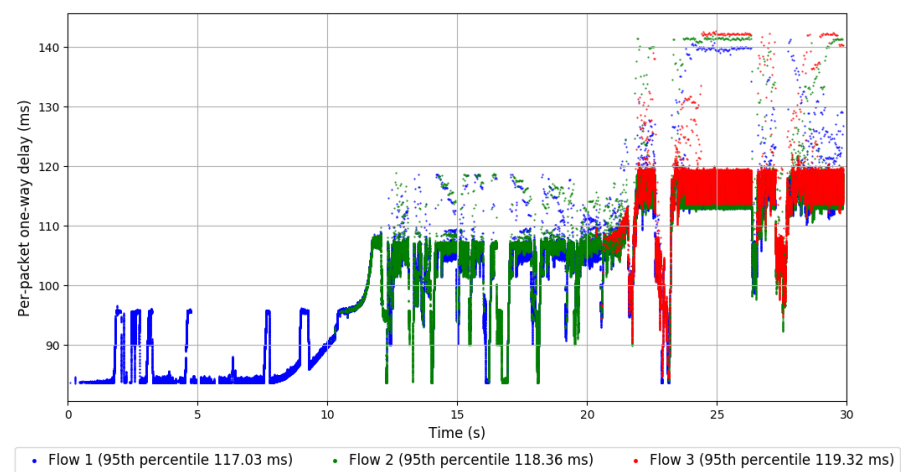
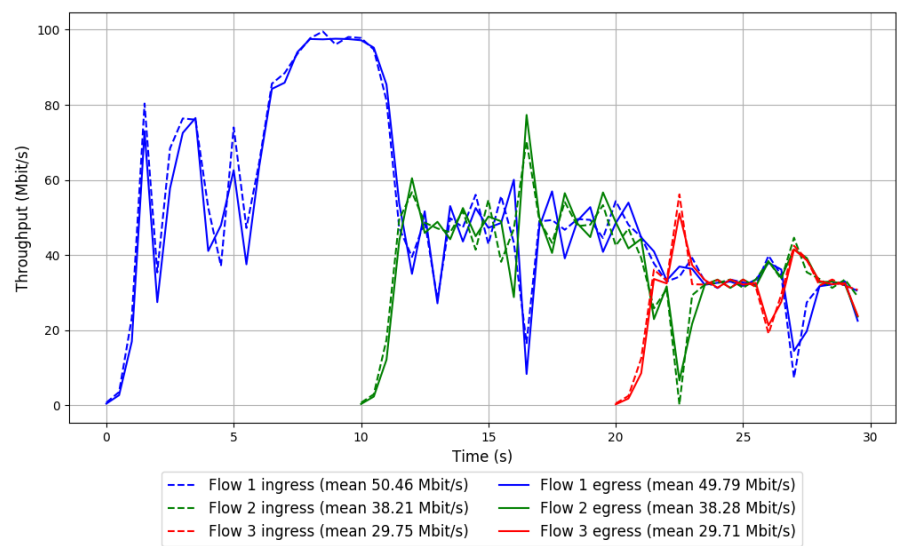
-- Flow 3:

Average throughput: 29.71 Mbit/s

95th percentile per-packet one-way delay: 119.321 ms

Loss rate: 2.39%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-04-10 20:54:44

End at: 2018-04-10 20:55:14

Local clock offset: -4.713 ms

Remote clock offset: 7.103 ms

Below is generated by plot.py at 2018-04-11 02:14:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.45 Mbit/s

95th percentile per-packet one-way delay: 114.877 ms

Loss rate: 0.79%

-- Flow 1:

Average throughput: 54.89 Mbit/s

95th percentile per-packet one-way delay: 114.064 ms

Loss rate: 0.45%

-- Flow 2:

Average throughput: 37.79 Mbit/s

95th percentile per-packet one-way delay: 114.864 ms

Loss rate: 0.89%

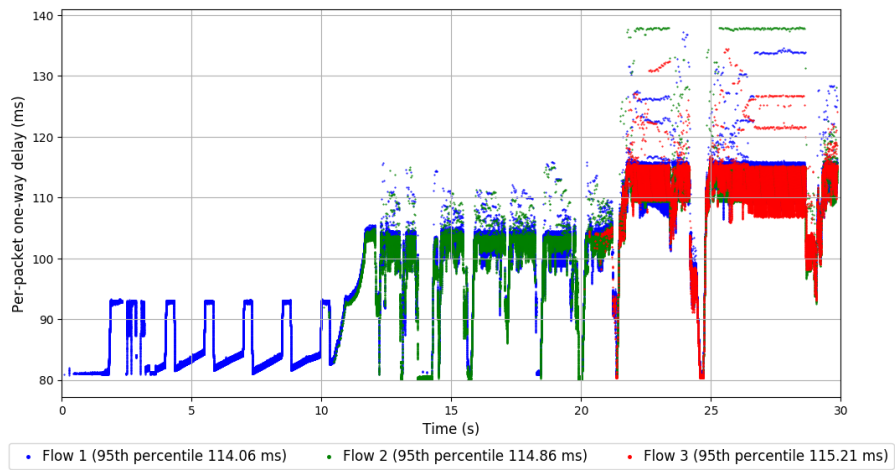
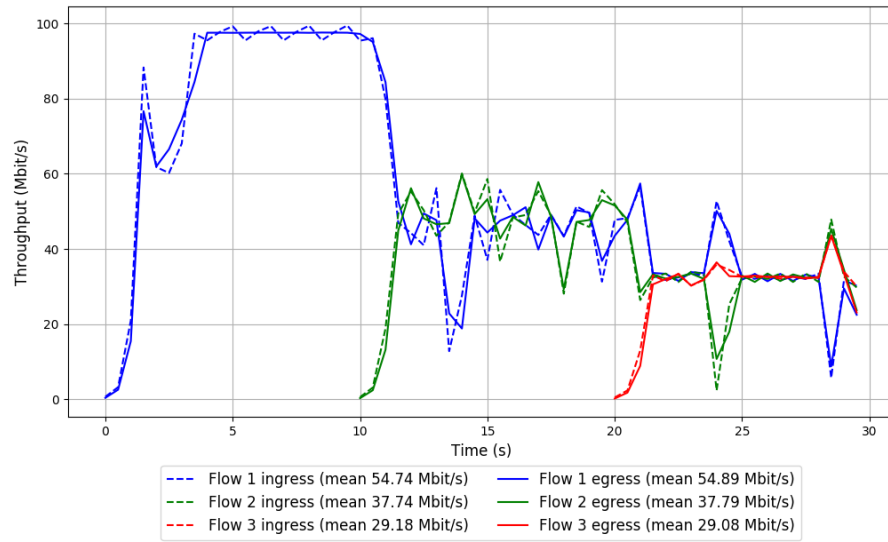
-- Flow 3:

Average throughput: 29.08 Mbit/s

95th percentile per-packet one-way delay: 115.213 ms

Loss rate: 2.48%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-04-10 21:18:55

End at: 2018-04-10 21:19:26

Local clock offset: -6.083 ms

Remote clock offset: 7.227 ms

Below is generated by plot.py at 2018-04-11 02:14:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.97 Mbit/s

95th percentile per-packet one-way delay: 114.268 ms

Loss rate: 0.75%

-- Flow 1:

Average throughput: 54.66 Mbit/s

95th percentile per-packet one-way delay: 113.368 ms

Loss rate: 0.56%

-- Flow 2:

Average throughput: 39.00 Mbit/s

95th percentile per-packet one-way delay: 114.342 ms

Loss rate: 0.10%

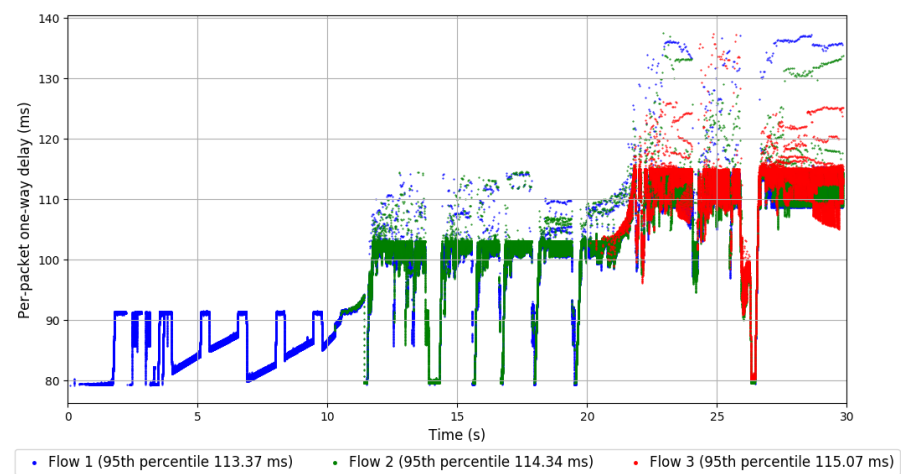
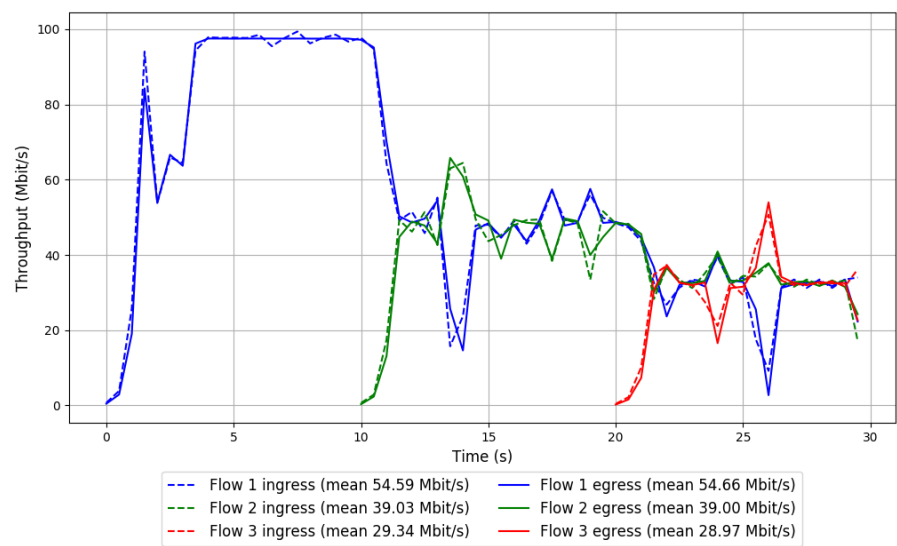
-- Flow 3:

Average throughput: 28.97 Mbit/s

95th percentile per-packet one-way delay: 115.071 ms

Loss rate: 3.47%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-04-10 21:43:09

End at: 2018-04-10 21:43:39

Local clock offset: -5.769 ms

Remote clock offset: 2.467 ms

Below is generated by plot.py at 2018-04-11 02:15:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 90.24 Mbit/s

95th percentile per-packet one-way delay: 119.623 ms

Loss rate: 0.80%

-- Flow 1:

Average throughput: 54.40 Mbit/s

95th percentile per-packet one-way delay: 118.635 ms

Loss rate: 0.47%

-- Flow 2:

Average throughput: 39.27 Mbit/s

95th percentile per-packet one-way delay: 119.703 ms

Loss rate: 0.86%

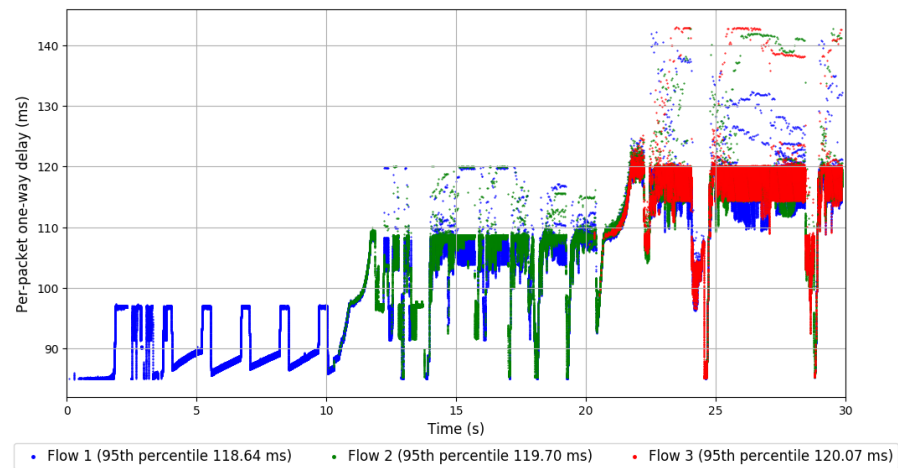
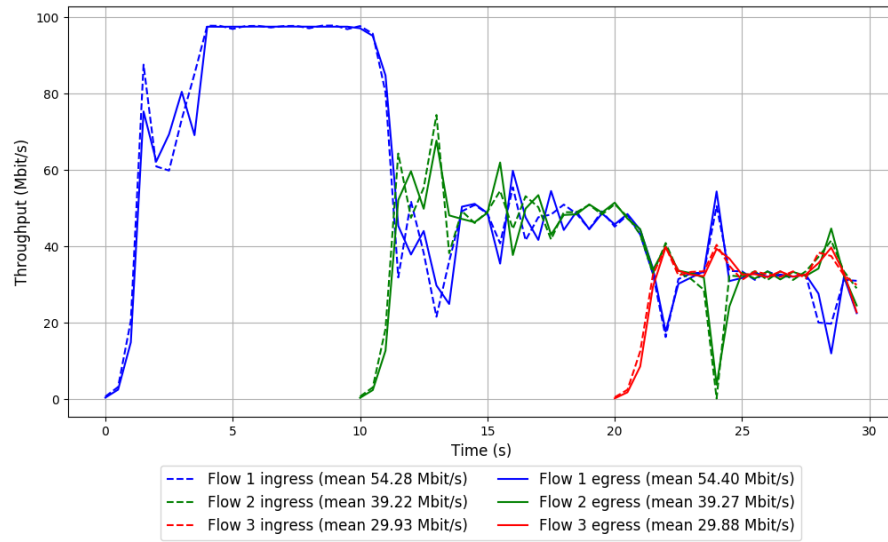
-- Flow 3:

Average throughput: 29.88 Mbit/s

95th percentile per-packet one-way delay: 120.068 ms

Loss rate: 2.41%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-04-10 22:07:02

End at: 2018-04-10 22:07:32

Local clock offset: -5.539 ms

Remote clock offset: 2.217 ms

Below is generated by plot.py at 2018-04-11 02:16:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.80 Mbit/s

95th percentile per-packet one-way delay: 119.112 ms

Loss rate: 0.81%

-- Flow 1:

Average throughput: 53.61 Mbit/s

95th percentile per-packet one-way delay: 117.897 ms

Loss rate: 0.44%

-- Flow 2:

Average throughput: 39.11 Mbit/s

95th percentile per-packet one-way delay: 119.003 ms

Loss rate: 0.99%

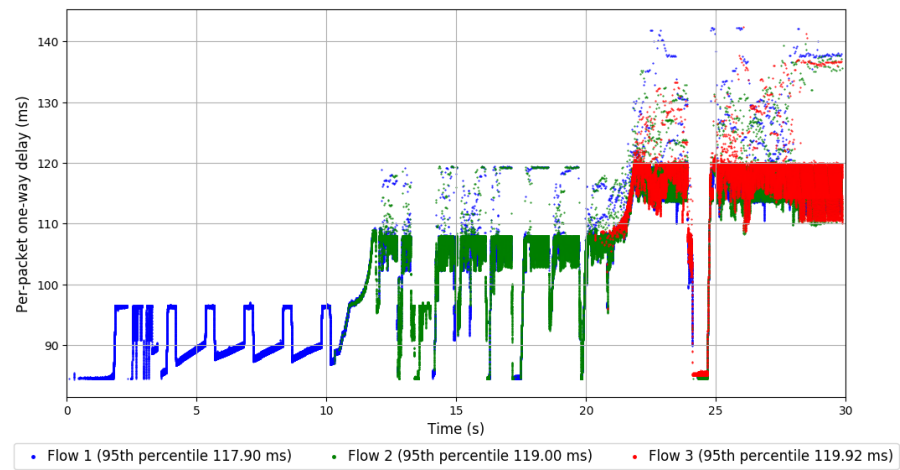
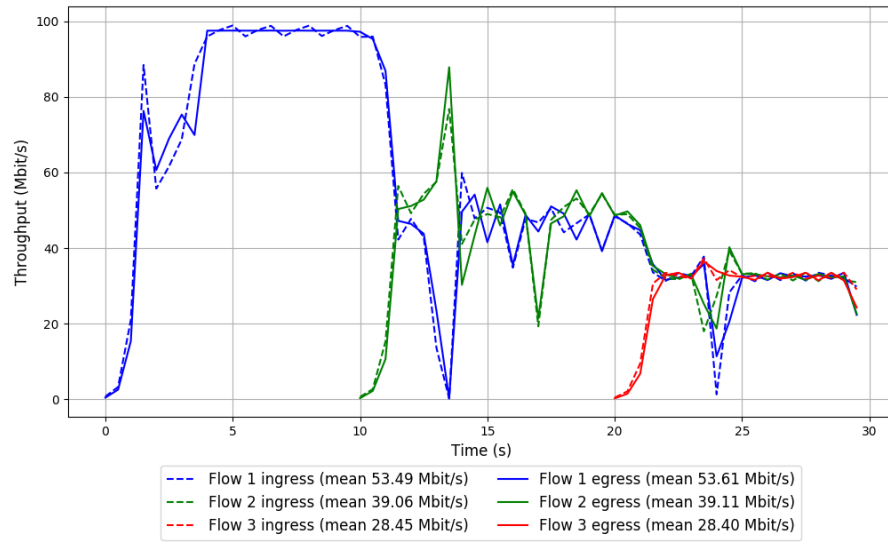
-- Flow 3:

Average throughput: 28.40 Mbit/s

95th percentile per-packet one-way delay: 119.921 ms

Loss rate: 2.39%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-04-10 18:17:58

End at: 2018-04-10 18:18:28

Local clock offset: -6.253 ms

Remote clock offset: 7.983 ms

Below is generated by plot.py at 2018-04-11 02:16:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.06 Mbit/s

95th percentile per-packet one-way delay: 114.270 ms

Loss rate: 1.11%

-- Flow 1:

Average throughput: 51.29 Mbit/s

95th percentile per-packet one-way delay: 113.286 ms

Loss rate: 0.49%

-- Flow 2:

Average throughput: 38.45 Mbit/s

95th percentile per-packet one-way delay: 114.285 ms

Loss rate: 1.30%

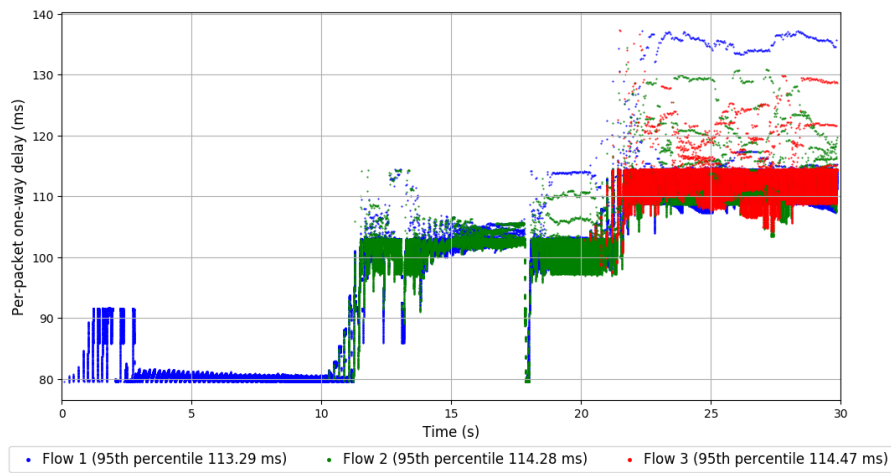
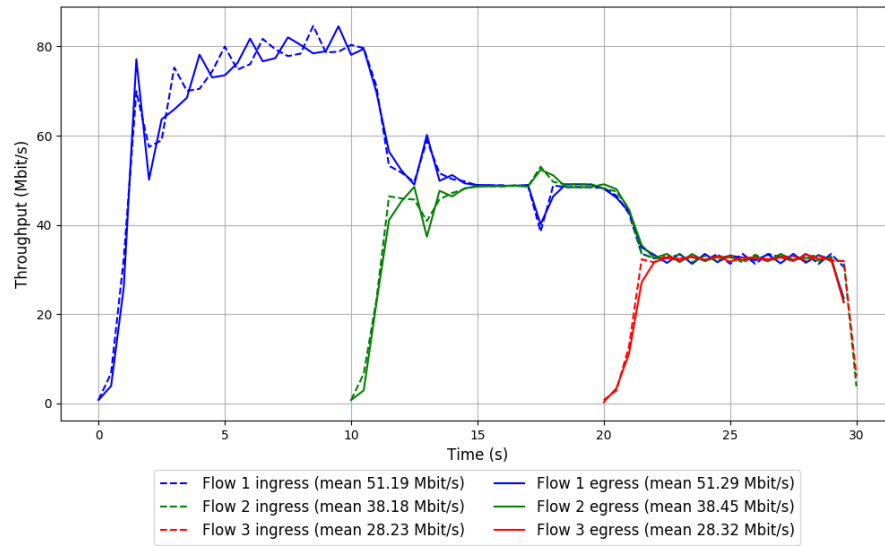
-- Flow 3:

Average throughput: 28.32 Mbit/s

95th percentile per-packet one-way delay: 114.467 ms

Loss rate: 3.91%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-04-10 18:42:06

End at: 2018-04-10 18:42:36

Local clock offset: -5.535 ms

Remote clock offset: 4.774 ms

Below is generated by plot.py at 2018-04-11 02:16:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.48 Mbit/s

95th percentile per-packet one-way delay: 118.915 ms

Loss rate: 0.84%

-- Flow 1:

Average throughput: 51.41 Mbit/s

95th percentile per-packet one-way delay: 117.559 ms

Loss rate: 0.49%

-- Flow 2:

Average throughput: 38.01 Mbit/s

95th percentile per-packet one-way delay: 119.521 ms

Loss rate: 0.89%

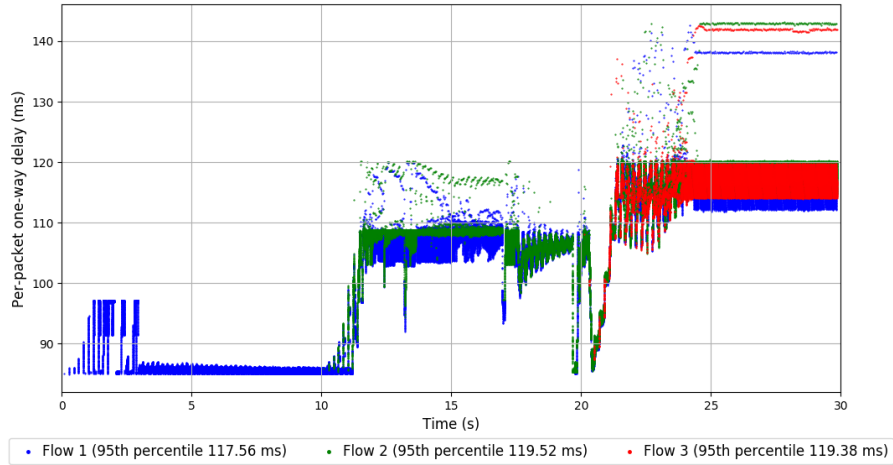
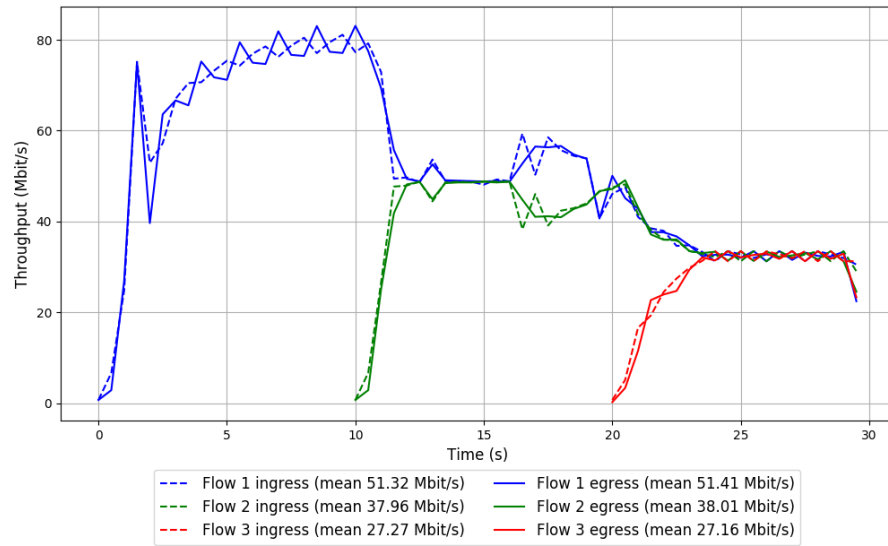
-- Flow 3:

Average throughput: 27.16 Mbit/s

95th percentile per-packet one-way delay: 119.378 ms

Loss rate: 2.70%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-04-10 19:06:09

End at: 2018-04-10 19:06:39

Local clock offset: -6.218 ms

Remote clock offset: 2.942 ms

Below is generated by plot.py at 2018-04-11 02:16:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 83.56 Mbit/s

95th percentile per-packet one-way delay: 119.130 ms

Loss rate: 1.19%

-- Flow 1:

Average throughput: 48.24 Mbit/s

95th percentile per-packet one-way delay: 119.203 ms

Loss rate: 0.60%

-- Flow 2:

Average throughput: 39.44 Mbit/s

95th percentile per-packet one-way delay: 118.974 ms

Loss rate: 1.45%

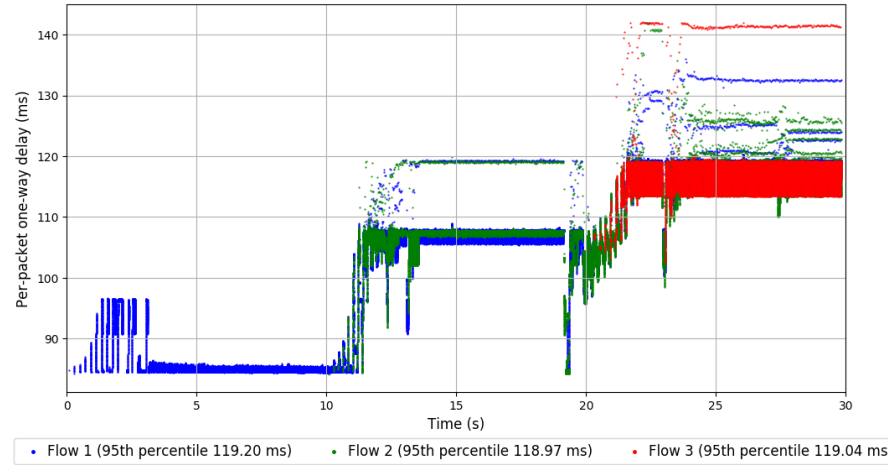
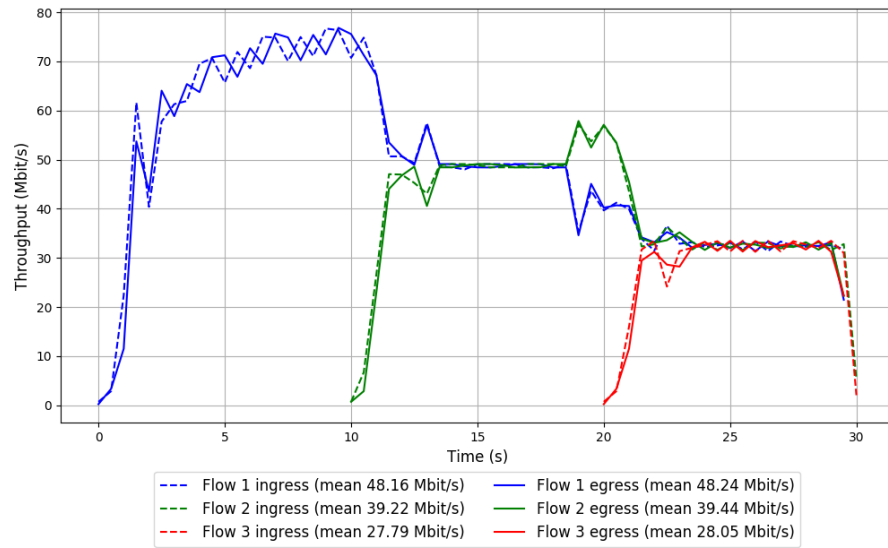
-- Flow 3:

Average throughput: 28.05 Mbit/s

95th percentile per-packet one-way delay: 119.042 ms

Loss rate: 3.49%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-04-10 19:30:15

End at: 2018-04-10 19:30:45

Local clock offset: -5.722 ms

Remote clock offset: 7.369 ms

Below is generated by plot.py at 2018-04-11 02:16:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 51.29 Mbit/s

95th percentile per-packet one-way delay: 94.181 ms

Loss rate: 1.85%

-- Flow 1:

Average throughput: 24.02 Mbit/s

95th percentile per-packet one-way delay: 91.671 ms

Loss rate: 1.50%

-- Flow 2:

Average throughput: 29.82 Mbit/s

95th percentile per-packet one-way delay: 96.100 ms

Loss rate: 1.78%

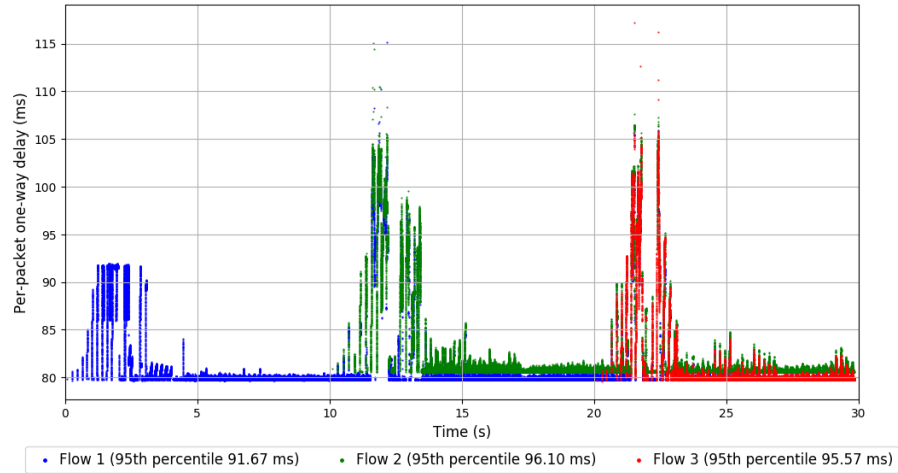
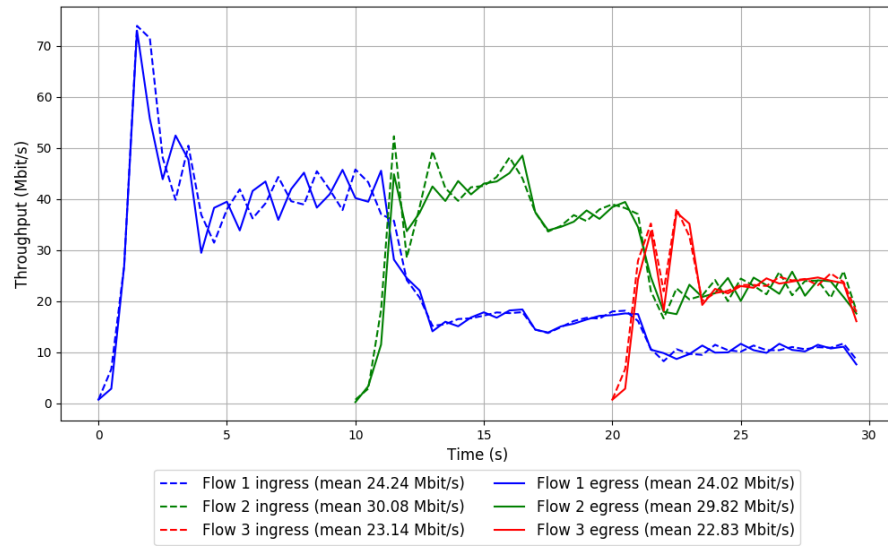
-- Flow 3:

Average throughput: 22.83 Mbit/s

95th percentile per-packet one-way delay: 95.570 ms

Loss rate: 3.12%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-04-10 19:54:32

End at: 2018-04-10 19:55:02

Local clock offset: -5.142 ms

Remote clock offset: 3.119 ms

Below is generated by plot.py at 2018-04-11 02:16:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 77.76 Mbit/s

95th percentile per-packet one-way delay: 120.581 ms

Loss rate: 1.34%

-- Flow 1:

Average throughput: 43.43 Mbit/s

95th percentile per-packet one-way delay: 120.299 ms

Loss rate: 0.88%

-- Flow 2:

Average throughput: 38.33 Mbit/s

95th percentile per-packet one-way delay: 119.642 ms

Loss rate: 1.59%

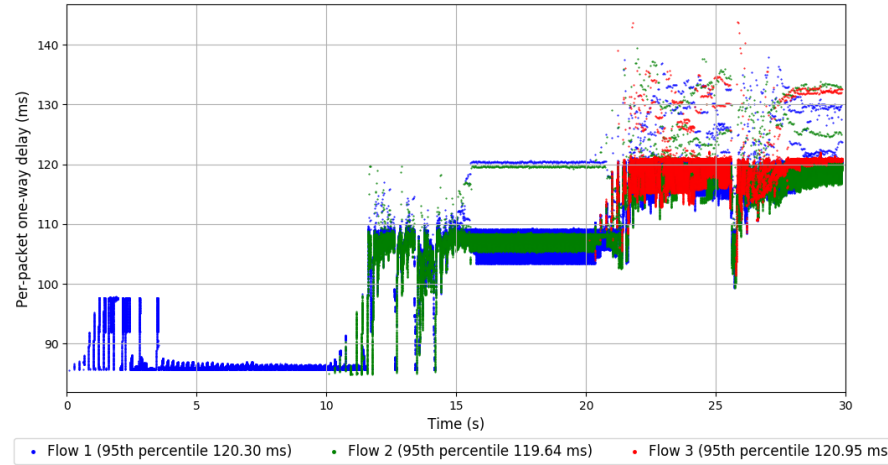
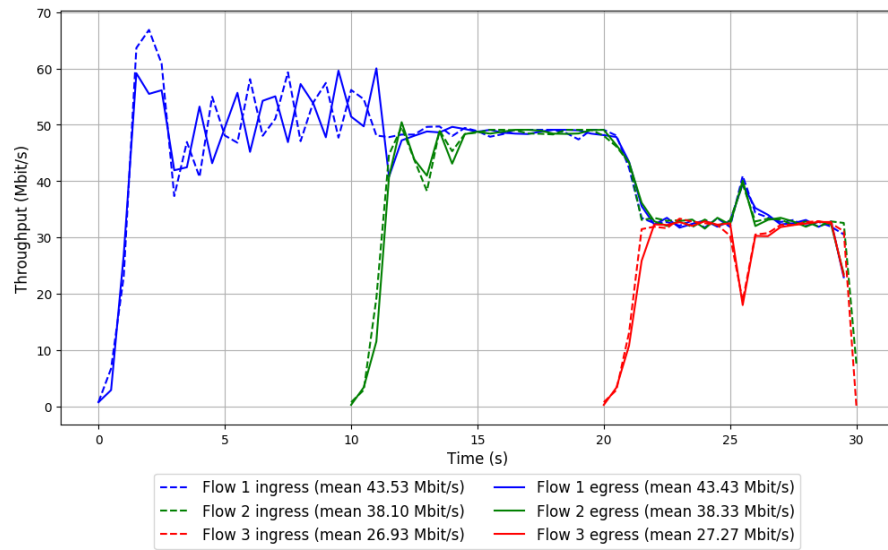
-- Flow 3:

Average throughput: 27.27 Mbit/s

95th percentile per-packet one-way delay: 120.954 ms

Loss rate: 2.89%

Run 5: Report of TCP Cubic — Data Link

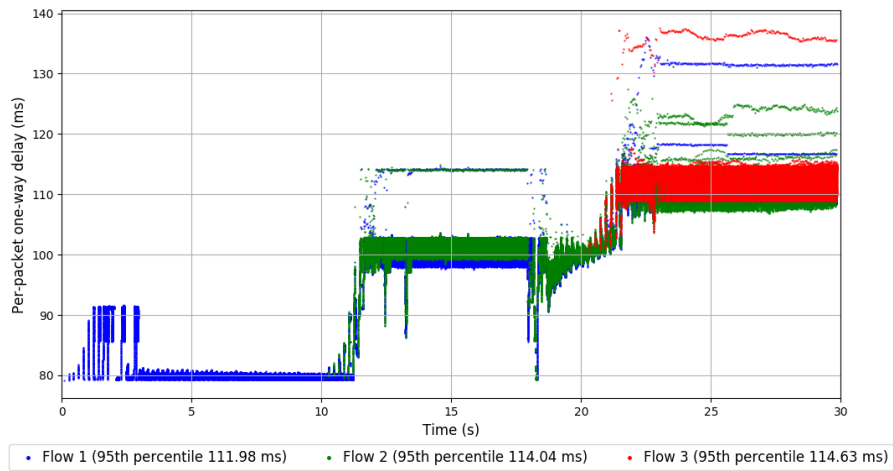
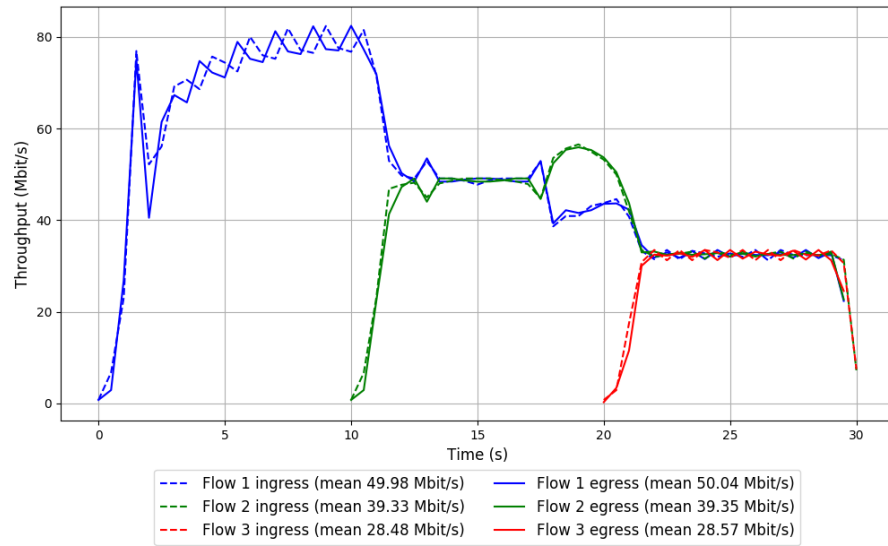


Run 6: Statistics of TCP Cubic

Start at: 2018-04-10 20:18:44
End at: 2018-04-10 20:19:14
Local clock offset: -5.875 ms
Remote clock offset: 8.818 ms

Below is generated by plot.py at 2018-04-11 02:16:02
Datalink statistics
-- Total of 3 flows:
Average throughput: 85.48 Mbit/s
95th percentile per-packet one-way delay: 114.136 ms
Loss rate: 1.18%
-- Flow 1:
Average throughput: 50.04 Mbit/s
95th percentile per-packet one-way delay: 111.981 ms
Loss rate: 0.52%
-- Flow 2:
Average throughput: 39.35 Mbit/s
95th percentile per-packet one-way delay: 114.039 ms
Loss rate: 1.44%
-- Flow 3:
Average throughput: 28.57 Mbit/s
95th percentile per-packet one-way delay: 114.634 ms
Loss rate: 3.87%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-04-10 20:42:46

End at: 2018-04-10 20:43:16

Local clock offset: -4.784 ms

Remote clock offset: 2.991 ms

Below is generated by plot.py at 2018-04-11 02:16:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 48.68 Mbit/s

95th percentile per-packet one-way delay: 97.119 ms

Loss rate: 1.50%

-- Flow 1:

Average throughput: 23.06 Mbit/s

95th percentile per-packet one-way delay: 97.131 ms

Loss rate: 1.41%

-- Flow 2:

Average throughput: 28.28 Mbit/s

95th percentile per-packet one-way delay: 95.890 ms

Loss rate: 1.29%

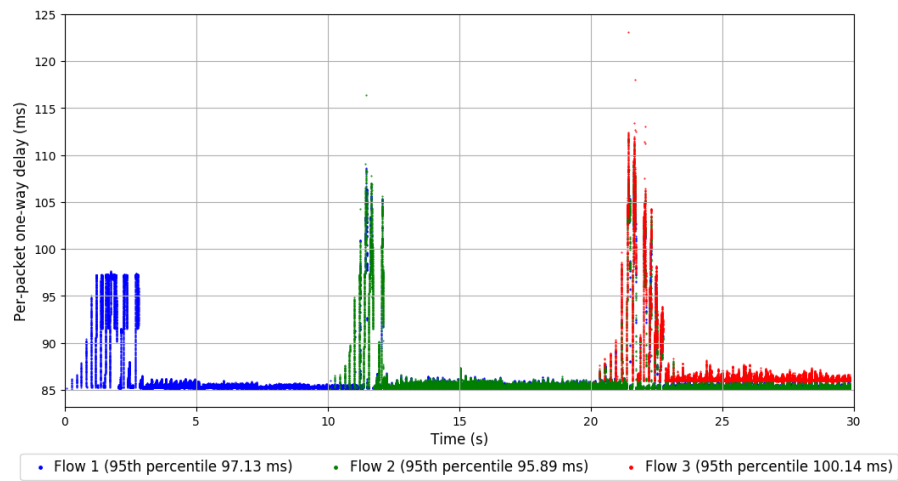
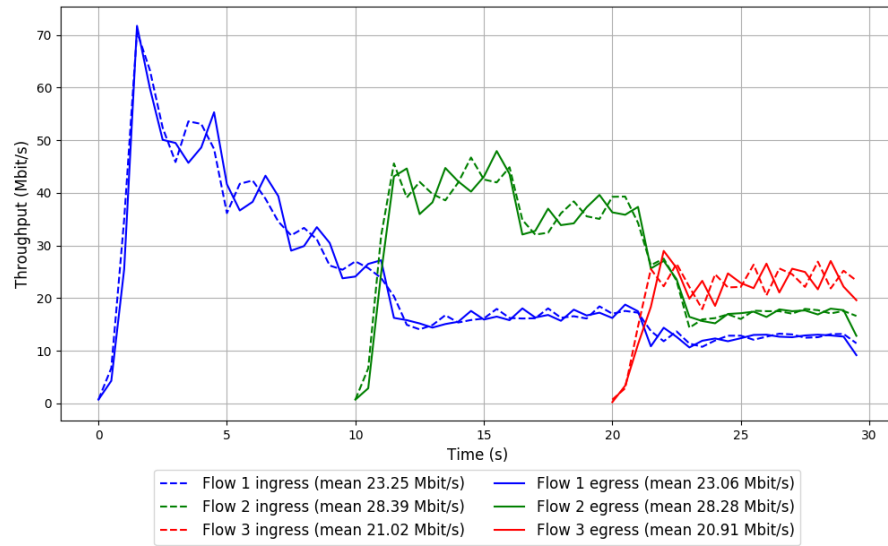
-- Flow 3:

Average throughput: 20.91 Mbit/s

95th percentile per-packet one-way delay: 100.137 ms

Loss rate: 2.40%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-04-10 21:07:01

End at: 2018-04-10 21:07:31

Local clock offset: -5.026 ms

Remote clock offset: 1.961 ms

Below is generated by plot.py at 2018-04-11 02:17:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.29 Mbit/s

95th percentile per-packet one-way delay: 119.775 ms

Loss rate: 1.14%

-- Flow 1:

Average throughput: 51.89 Mbit/s

95th percentile per-packet one-way delay: 119.546 ms

Loss rate: 0.54%

-- Flow 2:

Average throughput: 37.90 Mbit/s

95th percentile per-packet one-way delay: 119.957 ms

Loss rate: 1.32%

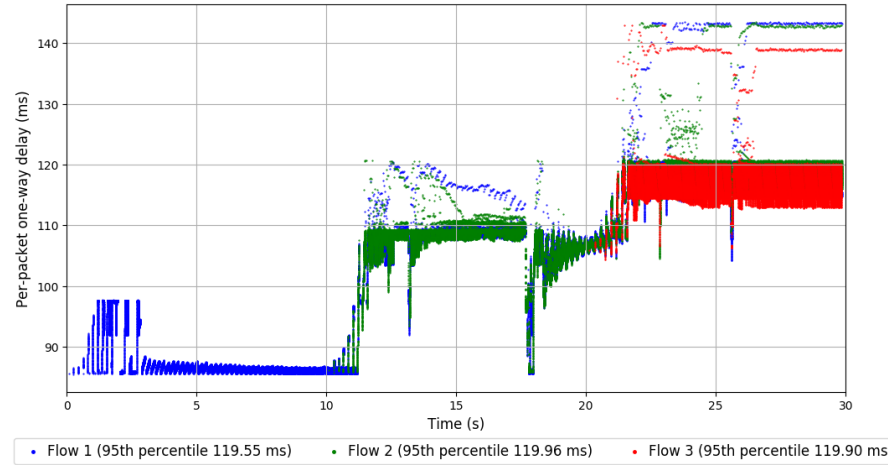
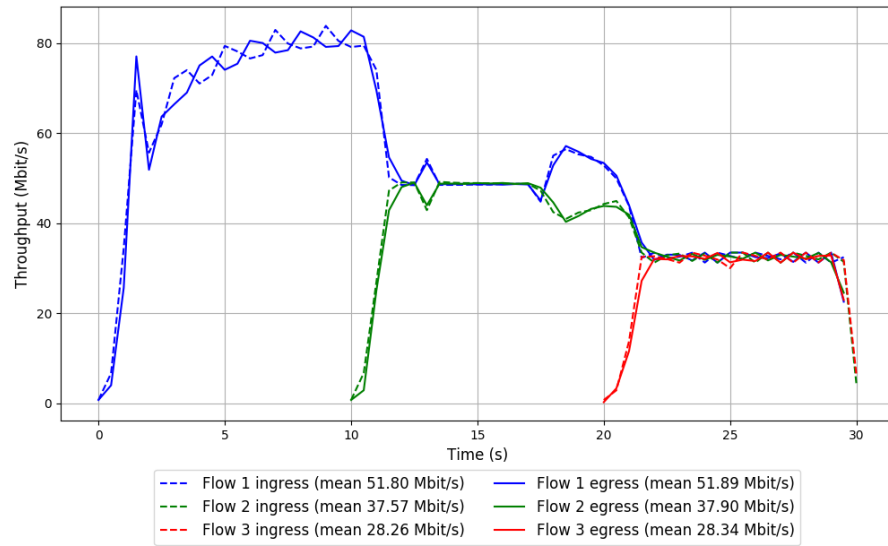
-- Flow 3:

Average throughput: 28.34 Mbit/s

95th percentile per-packet one-way delay: 119.898 ms

Loss rate: 3.94%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-04-10 21:31:03

End at: 2018-04-10 21:31:33

Local clock offset: -6.239 ms

Remote clock offset: 2.551 ms

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.27 Mbit/s

95th percentile per-packet one-way delay: 119.677 ms

Loss rate: 1.17%

-- Flow 1:

Average throughput: 51.27 Mbit/s

95th percentile per-packet one-way delay: 119.489 ms

Loss rate: 0.52%

-- Flow 2:

Average throughput: 38.69 Mbit/s

95th percentile per-packet one-way delay: 119.884 ms

Loss rate: 1.45%

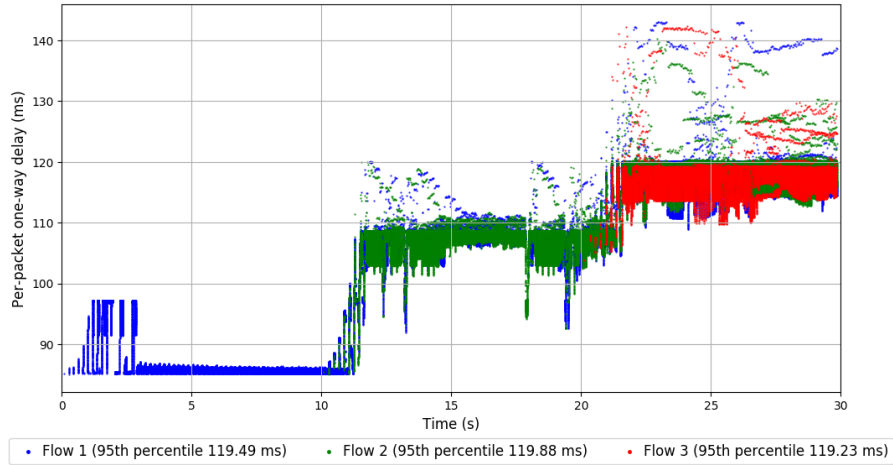
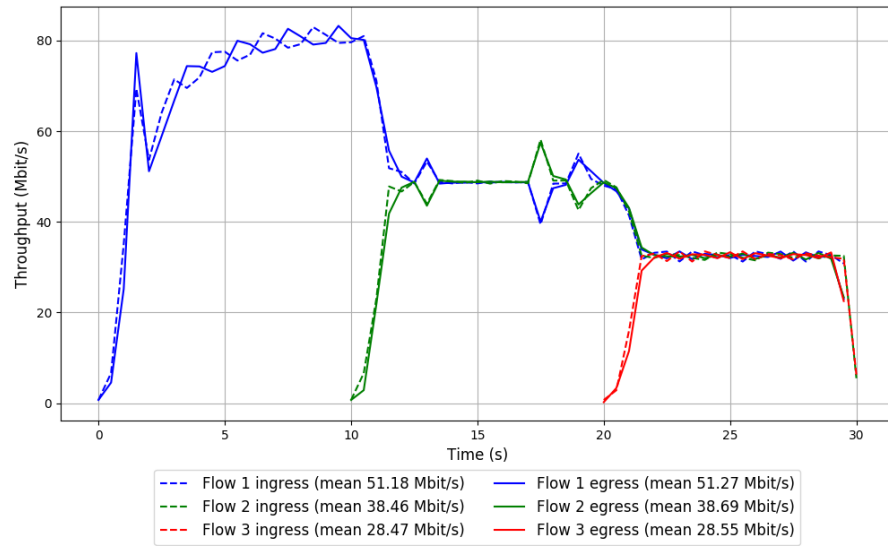
-- Flow 3:

Average throughput: 28.55 Mbit/s

95th percentile per-packet one-way delay: 119.233 ms

Loss rate: 3.89%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-04-10 21:55:16

End at: 2018-04-10 21:55:46

Local clock offset: -5.691 ms

Remote clock offset: 7.209 ms

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.26 Mbit/s

95th percentile per-packet one-way delay: 114.274 ms

Loss rate: 1.19%

-- Flow 1:

Average throughput: 50.70 Mbit/s

95th percentile per-packet one-way delay: 113.571 ms

Loss rate: 0.55%

-- Flow 2:

Average throughput: 38.06 Mbit/s

95th percentile per-packet one-way delay: 114.241 ms

Loss rate: 1.47%

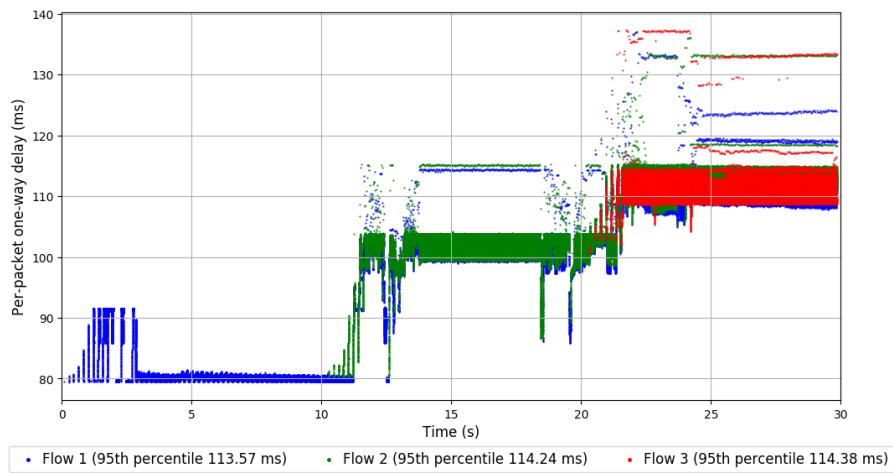
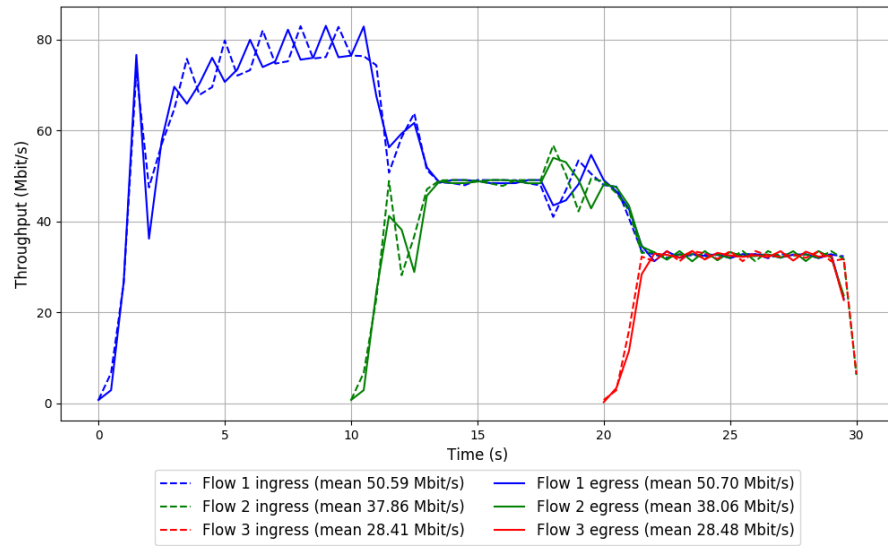
-- Flow 3:

Average throughput: 28.48 Mbit/s

95th percentile per-packet one-way delay: 114.375 ms

Loss rate: 3.85%

Run 10: Report of TCP Cubic — Data Link

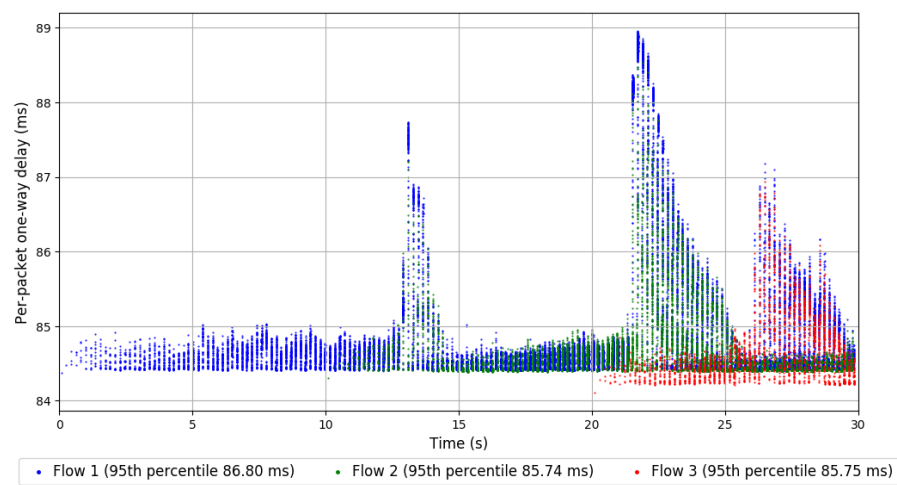
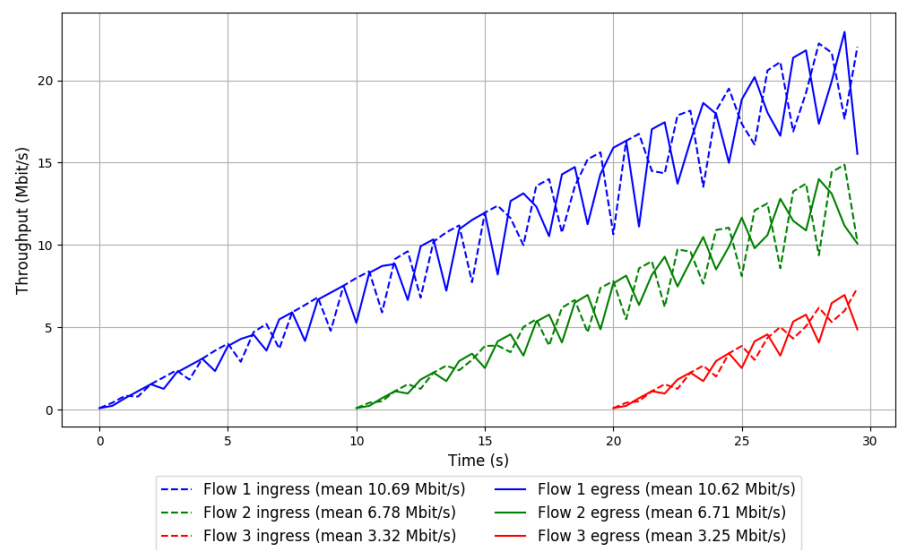


```
Run 1: Statistics of LEDBAT

Start at: 2018-04-10 18:15:22
End at: 2018-04-10 18:15:52
Local clock offset: -6.27 ms
Remote clock offset: 3.113 ms

# Below is generated by plot.py at 2018-04-11 02:17:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 16.11 Mbit/s
95th percentile per-packet one-way delay: 86.389 ms
Loss rate: 1.59%
-- Flow 1:
Average throughput: 10.62 Mbit/s
95th percentile per-packet one-way delay: 86.799 ms
Loss rate: 1.22%
-- Flow 2:
Average throughput: 6.71 Mbit/s
95th percentile per-packet one-way delay: 85.741 ms
Loss rate: 1.90%
-- Flow 3:
Average throughput: 3.25 Mbit/s
95th percentile per-packet one-way delay: 85.748 ms
Loss rate: 3.81%
```


Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2018-04-10 18:39:30

End at: 2018-04-10 18:40:00

Local clock offset: -4.78 ms

Remote clock offset: 9.397 ms

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 16.68 Mbit/s

95th percentile per-packet one-way delay: 82.291 ms

Loss rate: 1.56%

-- Flow 1:

Average throughput: 10.78 Mbit/s

95th percentile per-packet one-way delay: 82.104 ms

Loss rate: 1.22%

-- Flow 2:

Average throughput: 7.23 Mbit/s

95th percentile per-packet one-way delay: 82.437 ms

Loss rate: 1.82%

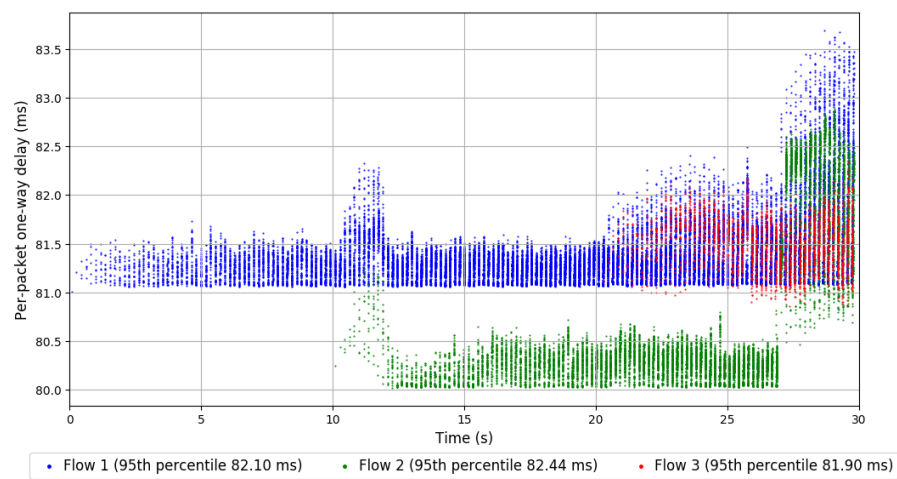
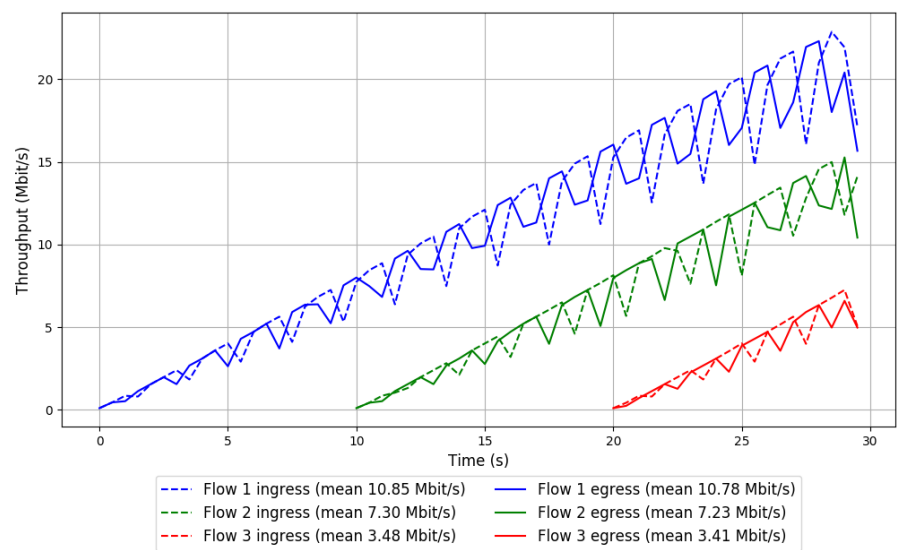
-- Flow 3:

Average throughput: 3.41 Mbit/s

95th percentile per-packet one-way delay: 81.897 ms

Loss rate: 3.74%

Run 2: Report of LEDBAT — Data Link

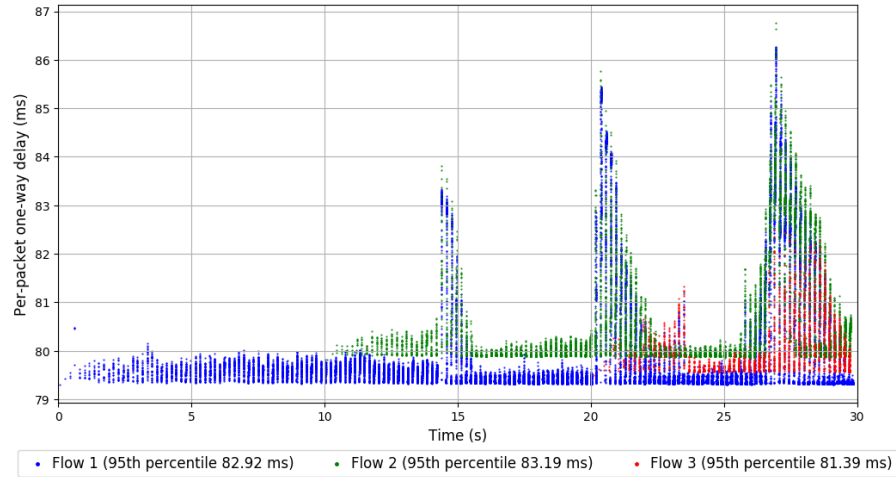
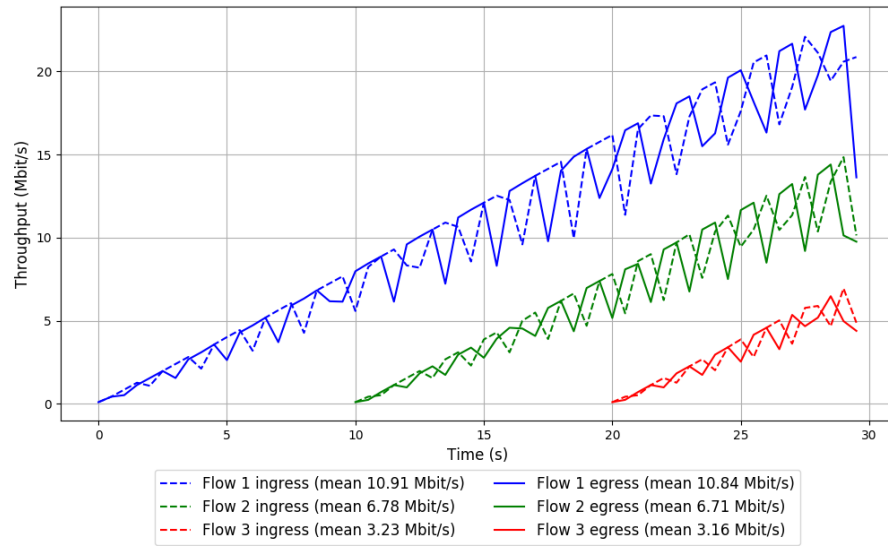


Run 3: Statistics of LEDBAT

Start at: 2018-04-10 19:03:28
End at: 2018-04-10 19:03:58
Local clock offset: -5.436 ms
Remote clock offset: 7.944 ms

Below is generated by plot.py at 2018-04-11 02:17:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 16.29 Mbit/s
95th percentile per-packet one-way delay: 82.989 ms
Loss rate: 1.57%
-- Flow 1:
Average throughput: 10.84 Mbit/s
95th percentile per-packet one-way delay: 82.920 ms
Loss rate: 1.21%
-- Flow 2:
Average throughput: 6.71 Mbit/s
95th percentile per-packet one-way delay: 83.195 ms
Loss rate: 1.89%
-- Flow 3:
Average throughput: 3.16 Mbit/s
95th percentile per-packet one-way delay: 81.389 ms
Loss rate: 3.89%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-04-10 19:27:39

End at: 2018-04-10 19:28:09

Local clock offset: -4.91 ms

Remote clock offset: 2.439 ms

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 16.52 Mbit/s

95th percentile per-packet one-way delay: 86.969 ms

Loss rate: 1.57%

-- Flow 1:

Average throughput: 10.63 Mbit/s

95th percentile per-packet one-way delay: 86.824 ms

Loss rate: 1.23%

-- Flow 2:

Average throughput: 7.21 Mbit/s

95th percentile per-packet one-way delay: 87.536 ms

Loss rate: 1.83%

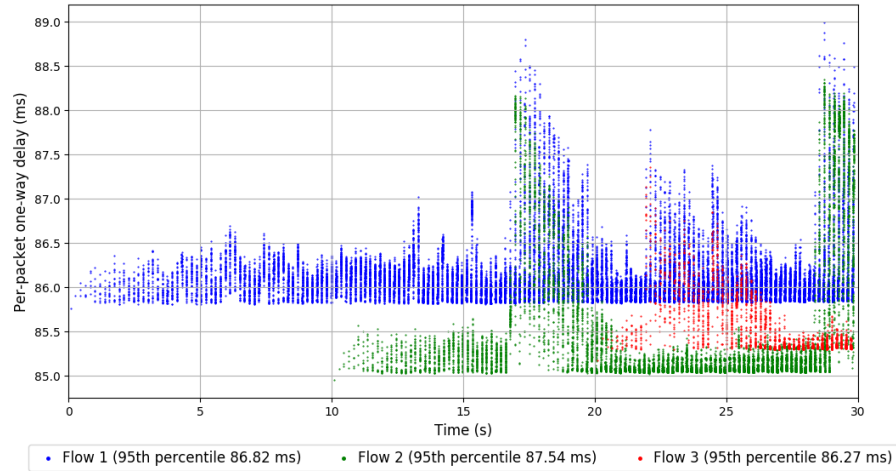
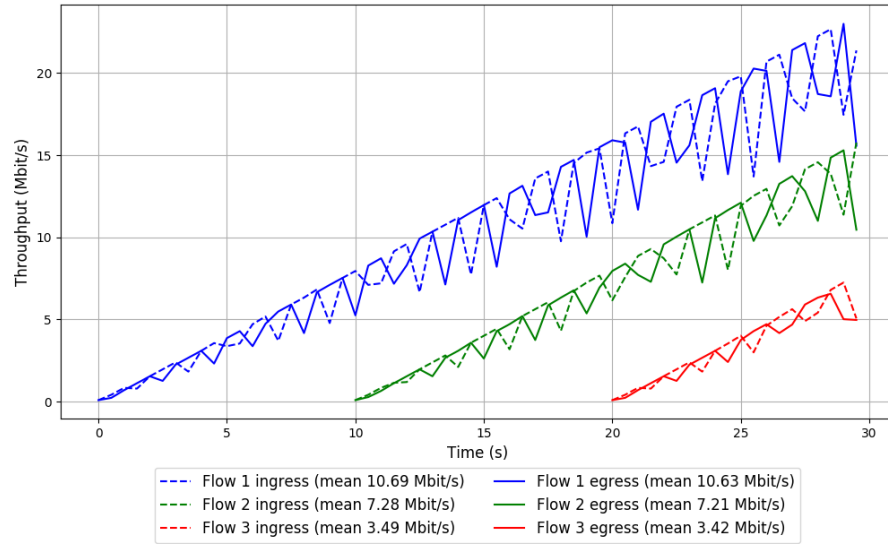
-- Flow 3:

Average throughput: 3.42 Mbit/s

95th percentile per-packet one-way delay: 86.265 ms

Loss rate: 3.74%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-04-10 19:51:46

End at: 2018-04-10 19:52:16

Local clock offset: -5.124 ms

Remote clock offset: 7.855 ms

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 16.16 Mbit/s

95th percentile per-packet one-way delay: 82.851 ms

Loss rate: 1.58%

-- Flow 1:

Average throughput: 10.78 Mbit/s

95th percentile per-packet one-way delay: 83.017 ms

Loss rate: 1.22%

-- Flow 2:

Average throughput: 6.62 Mbit/s

95th percentile per-packet one-way delay: 82.071 ms

Loss rate: 1.90%

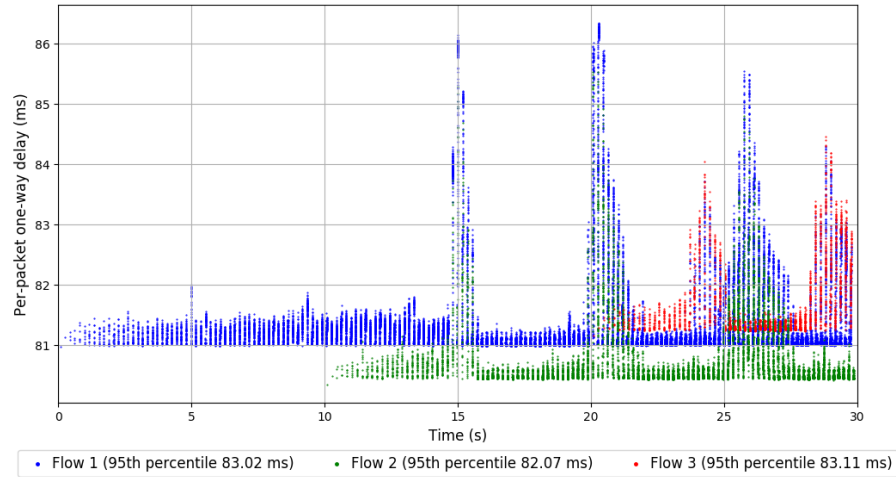
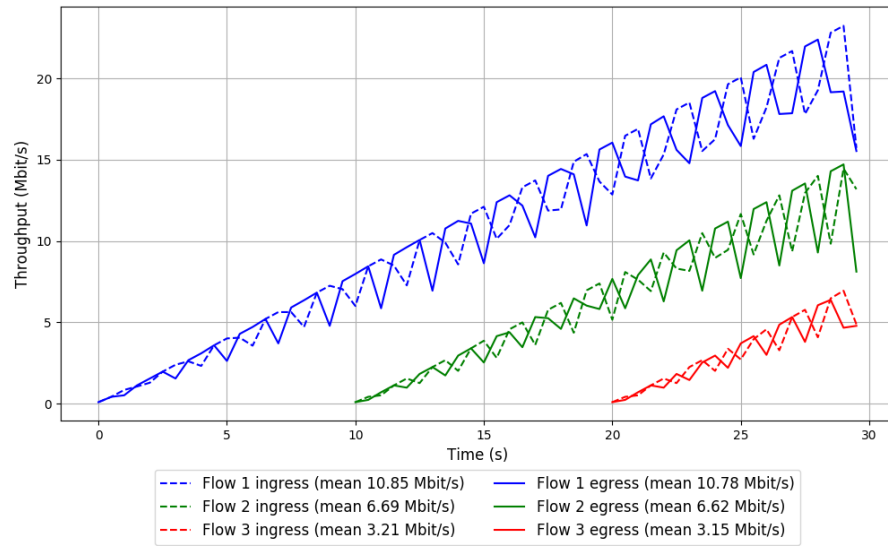
-- Flow 3:

Average throughput: 3.15 Mbit/s

95th percentile per-packet one-way delay: 83.110 ms

Loss rate: 3.89%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-04-10 20:16:07

End at: 2018-04-10 20:16:37

Local clock offset: -5.866 ms

Remote clock offset: 3.98 ms

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 16.58 Mbit/s

95th percentile per-packet one-way delay: 86.276 ms

Loss rate: 1.56%

-- Flow 1:

Average throughput: 10.87 Mbit/s

95th percentile per-packet one-way delay: 86.599 ms

Loss rate: 1.21%

-- Flow 2:

Average throughput: 6.96 Mbit/s

95th percentile per-packet one-way delay: 86.097 ms

Loss rate: 1.86%

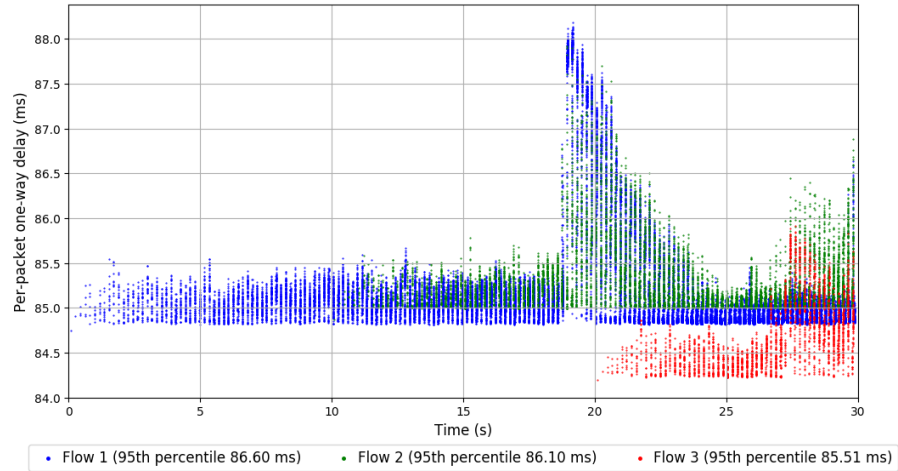
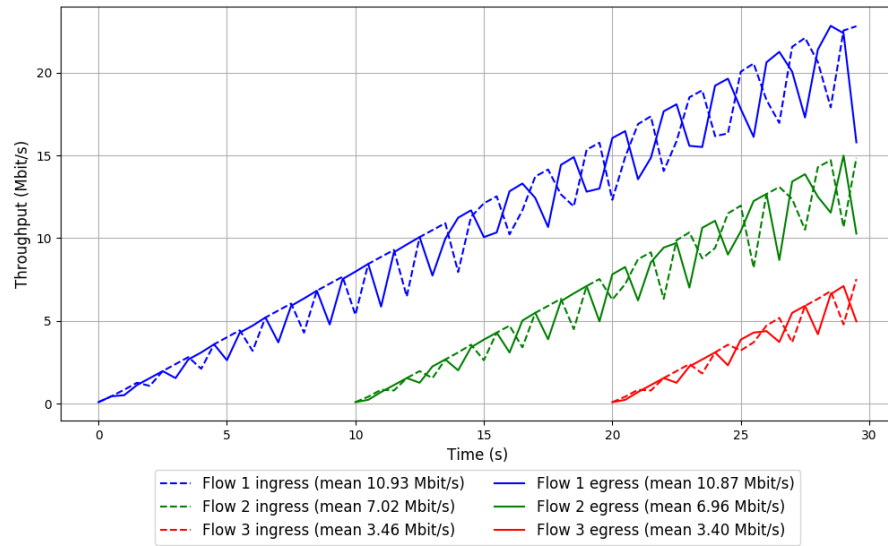
-- Flow 3:

Average throughput: 3.40 Mbit/s

95th percentile per-packet one-way delay: 85.509 ms

Loss rate: 3.74%

Run 6: Report of LEDBAT — Data Link

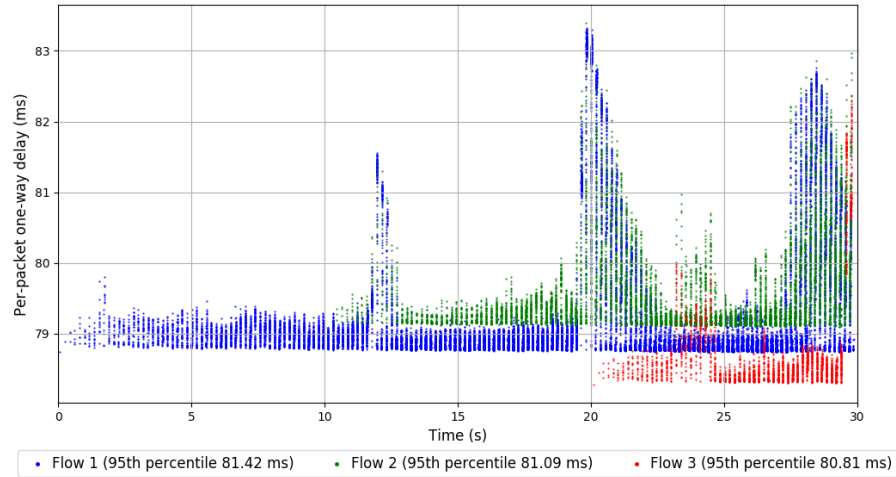
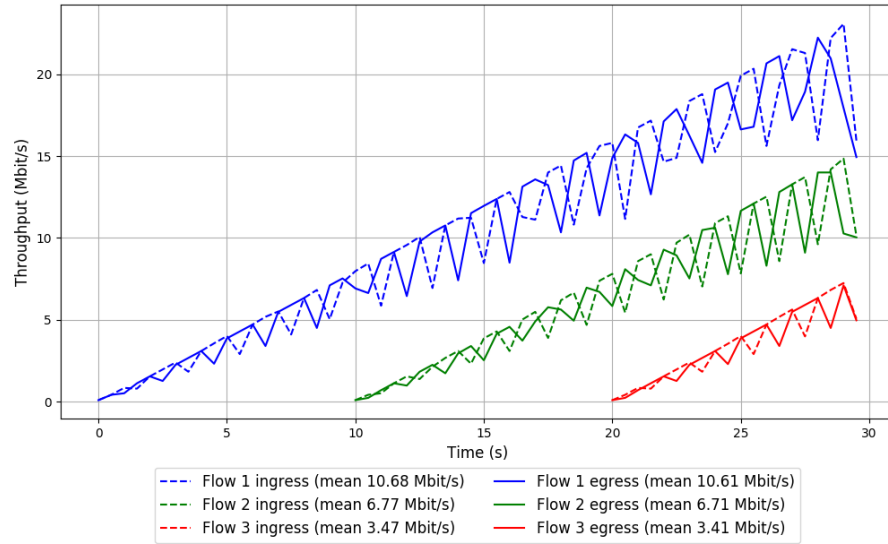


Run 7: Statistics of LEDBAT

Start at: 2018-04-10 20:40:11
End at: 2018-04-10 20:40:41
Local clock offset: -6.401 ms
Remote clock offset: 8.085 ms

Below is generated by plot.py at 2018-04-11 02:17:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 16.15 Mbit/s
95th percentile per-packet one-way delay: 81.305 ms
Loss rate: 1.58%
-- Flow 1:
Average throughput: 10.61 Mbit/s
95th percentile per-packet one-way delay: 81.420 ms
Loss rate: 1.22%
-- Flow 2:
Average throughput: 6.71 Mbit/s
95th percentile per-packet one-way delay: 81.090 ms
Loss rate: 1.89%
-- Flow 3:
Average throughput: 3.41 Mbit/s
95th percentile per-packet one-way delay: 80.809 ms
Loss rate: 3.74%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-04-10 21:04:23

End at: 2018-04-10 21:04:53

Local clock offset: -4.929 ms

Remote clock offset: 2.114 ms

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 16.11 Mbit/s

95th percentile per-packet one-way delay: 87.536 ms

Loss rate: 1.59%

-- Flow 1:

Average throughput: 10.63 Mbit/s

95th percentile per-packet one-way delay: 87.913 ms

Loss rate: 1.23%

-- Flow 2:

Average throughput: 6.72 Mbit/s

95th percentile per-packet one-way delay: 87.075 ms

Loss rate: 1.90%

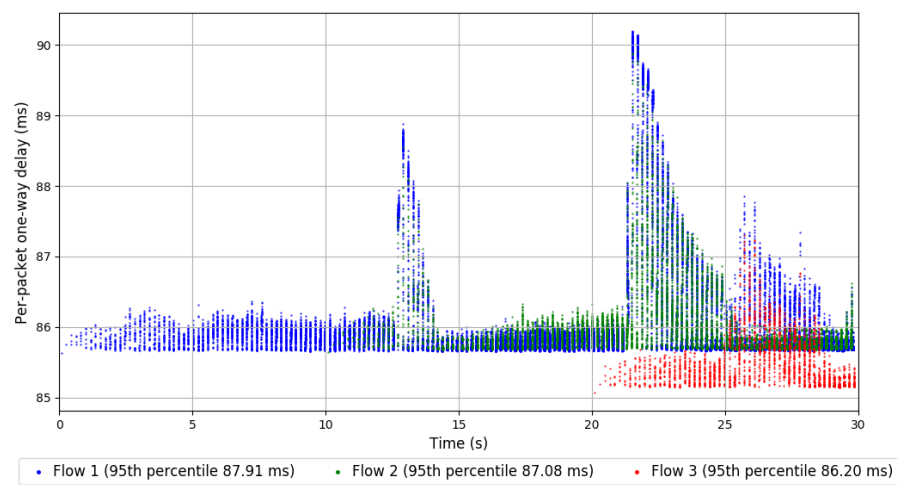
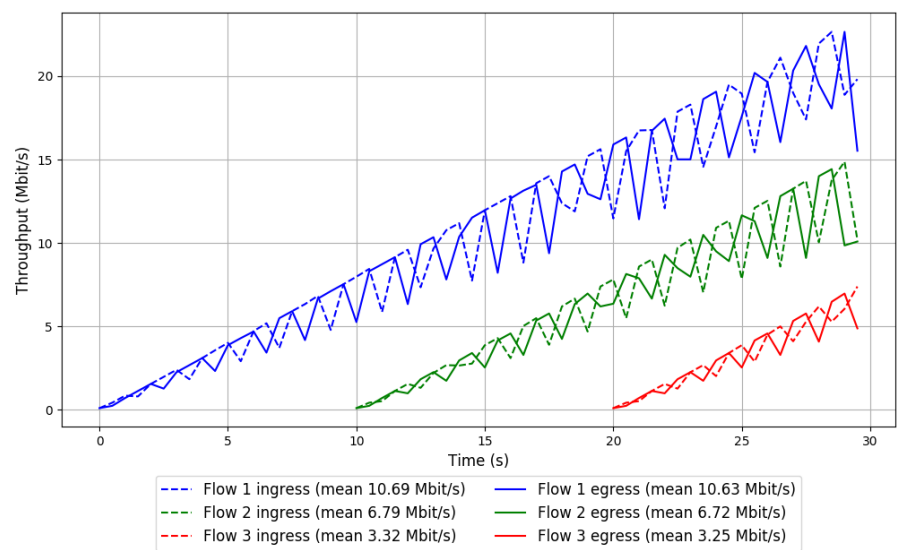
-- Flow 3:

Average throughput: 3.25 Mbit/s

95th percentile per-packet one-way delay: 86.198 ms

Loss rate: 3.81%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-04-10 21:28:26

End at: 2018-04-10 21:28:56

Local clock offset: -6.181 ms

Remote clock offset: 2.528 ms

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 16.29 Mbit/s

95th percentile per-packet one-way delay: 86.577 ms

Loss rate: 1.58%

-- Flow 1:

Average throughput: 10.65 Mbit/s

95th percentile per-packet one-way delay: 86.685 ms

Loss rate: 1.22%

-- Flow 2:

Average throughput: 6.99 Mbit/s

95th percentile per-packet one-way delay: 85.599 ms

Loss rate: 1.86%

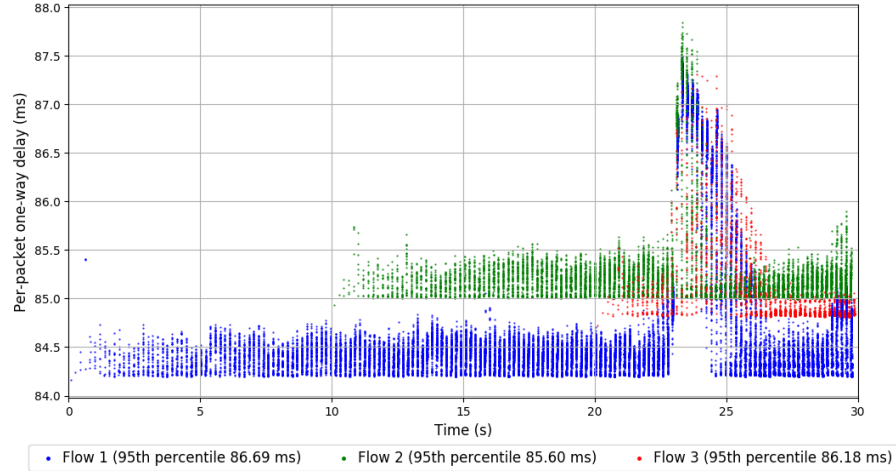
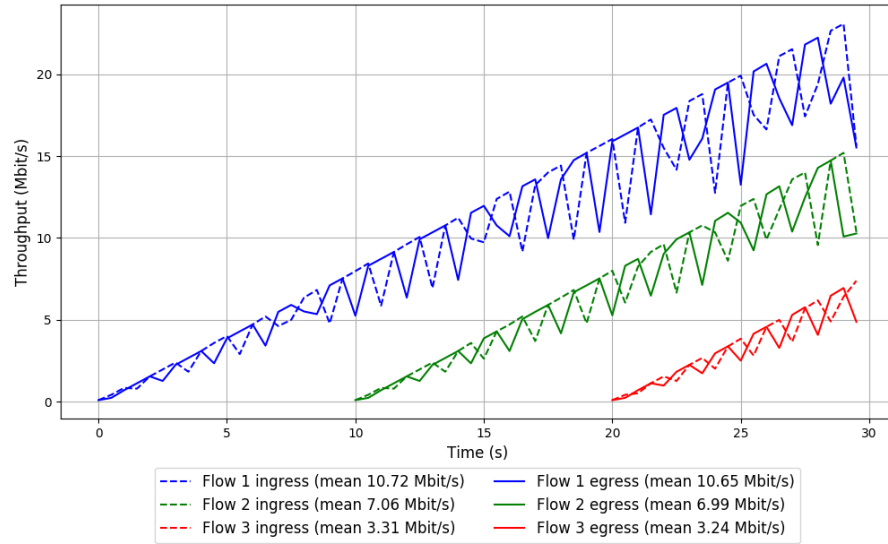
-- Flow 3:

Average throughput: 3.24 Mbit/s

95th percentile per-packet one-way delay: 86.181 ms

Loss rate: 3.82%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-04-10 21:52:39

End at: 2018-04-10 21:53:09

Local clock offset: -5.619 ms

Remote clock offset: 2.341 ms

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 16.72 Mbit/s

95th percentile per-packet one-way delay: 85.898 ms

Loss rate: 1.56%

-- Flow 1:

Average throughput: 10.92 Mbit/s

95th percentile per-packet one-way delay: 85.554 ms

Loss rate: 1.20%

-- Flow 2:

Average throughput: 7.10 Mbit/s

95th percentile per-packet one-way delay: 86.188 ms

Loss rate: 1.84%

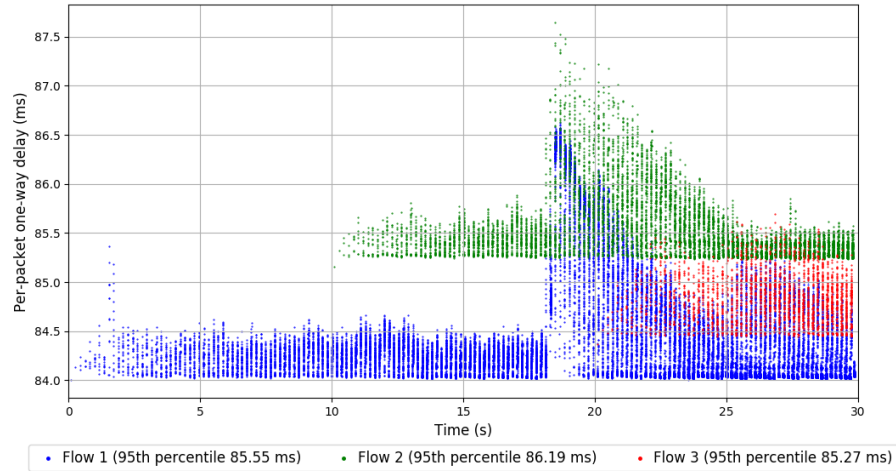
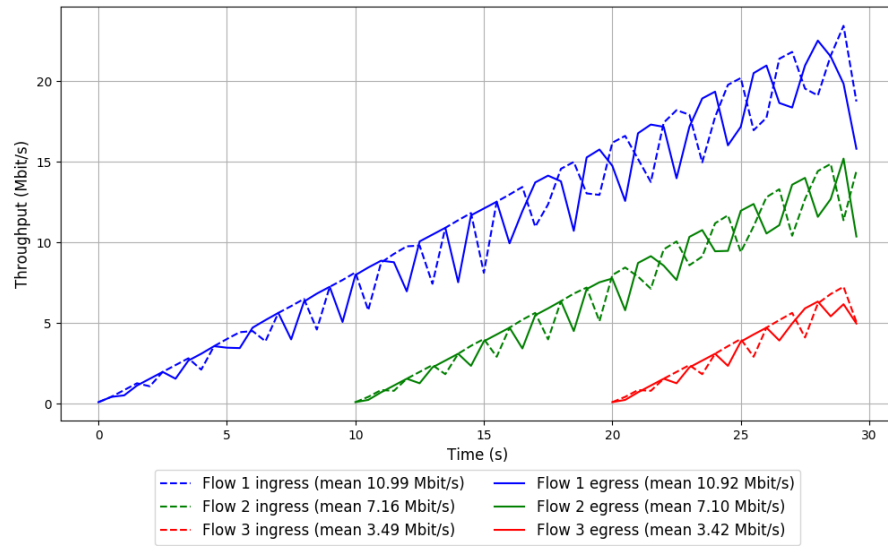
-- Flow 3:

Average throughput: 3.42 Mbit/s

95th percentile per-packet one-way delay: 85.268 ms

Loss rate: 3.74%

Run 10: Report of LEDBAT — Data Link

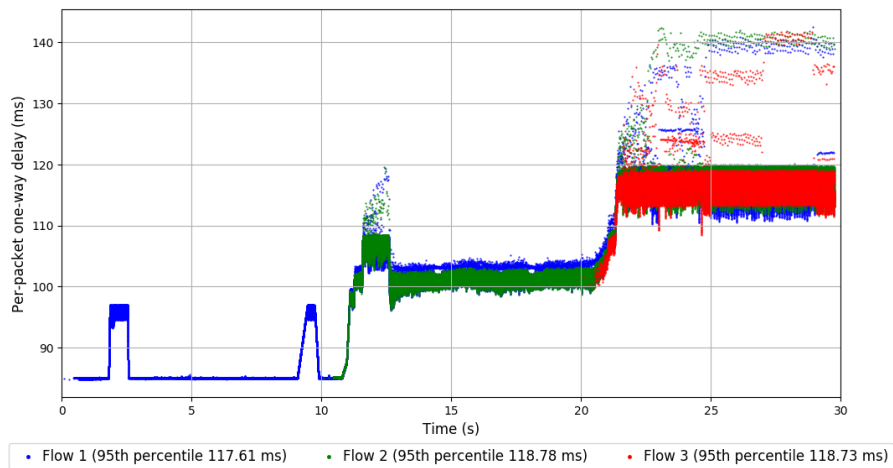
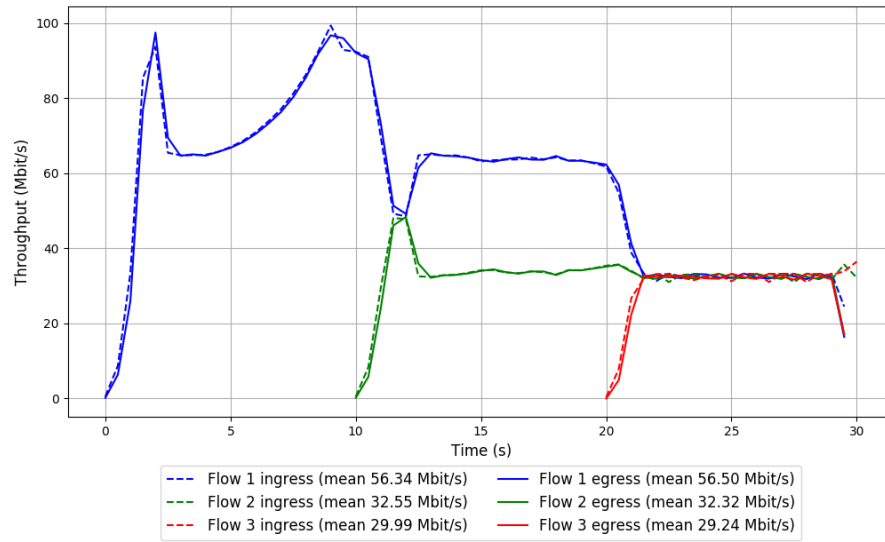


```
Run 1: Statistics of PCC

Start at: 2018-04-10 18:19:18
End at: 2018-04-10 18:19:48
Local clock offset: -5.513 ms
Remote clock offset: 3.326 ms

# Below is generated by plot.py at 2018-04-11 02:17:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.39 Mbit/s
95th percentile per-packet one-way delay: 118.374 ms
Loss rate: 2.54%
-- Flow 1:
Average throughput: 56.50 Mbit/s
95th percentile per-packet one-way delay: 117.613 ms
Loss rate: 0.47%
-- Flow 2:
Average throughput: 32.32 Mbit/s
95th percentile per-packet one-way delay: 118.776 ms
Loss rate: 4.36%
-- Flow 3:
Average throughput: 29.24 Mbit/s
95th percentile per-packet one-way delay: 118.730 ms
Loss rate: 9.85%
```

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2018-04-10 18:43:27

End at: 2018-04-10 18:43:57

Local clock offset: -6.252 ms

Remote clock offset: 9.582 ms

Below is generated by plot.py at 2018-04-11 02:17:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.51 Mbit/s

95th percentile per-packet one-way delay: 111.209 ms

Loss rate: 4.68%

-- Flow 1:

Average throughput: 57.43 Mbit/s

95th percentile per-packet one-way delay: 110.624 ms

Loss rate: 4.17%

-- Flow 2:

Average throughput: 30.75 Mbit/s

95th percentile per-packet one-way delay: 111.226 ms

Loss rate: 6.95%

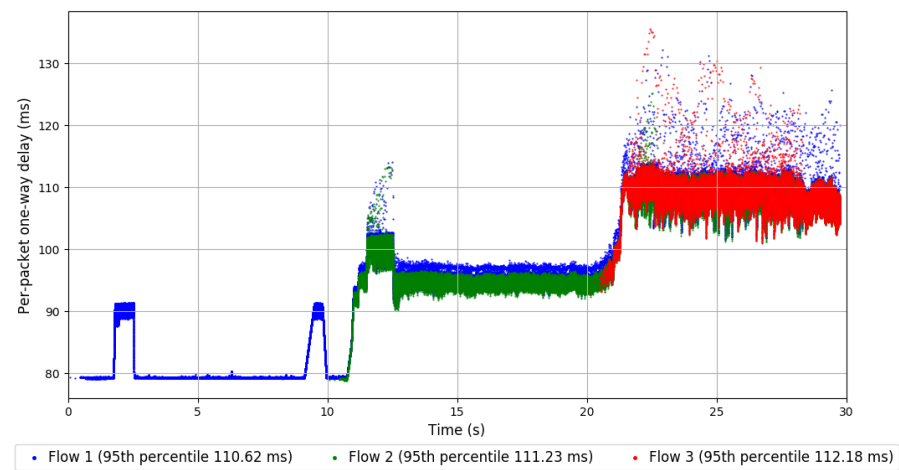
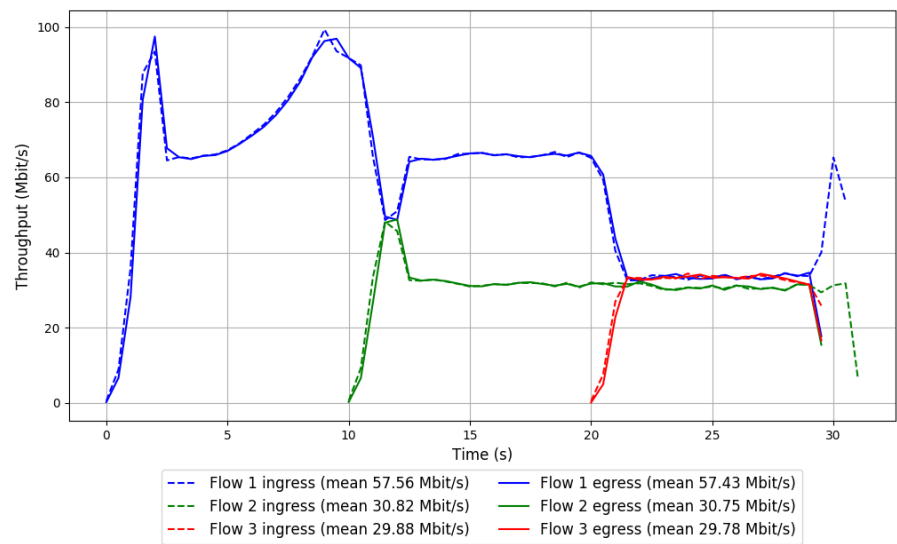
-- Flow 3:

Average throughput: 29.78 Mbit/s

95th percentile per-packet one-way delay: 112.184 ms

Loss rate: 2.72%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2018-04-10 19:07:32

End at: 2018-04-10 19:08:02

Local clock offset: -5.368 ms

Remote clock offset: 2.814 ms

Below is generated by plot.py at 2018-04-11 02:18:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.54 Mbit/s

95th percentile per-packet one-way delay: 118.165 ms

Loss rate: 5.07%

-- Flow 1:

Average throughput: 56.75 Mbit/s

95th percentile per-packet one-way delay: 116.287 ms

Loss rate: 4.78%

-- Flow 2:

Average throughput: 32.21 Mbit/s

95th percentile per-packet one-way delay: 118.751 ms

Loss rate: 6.76%

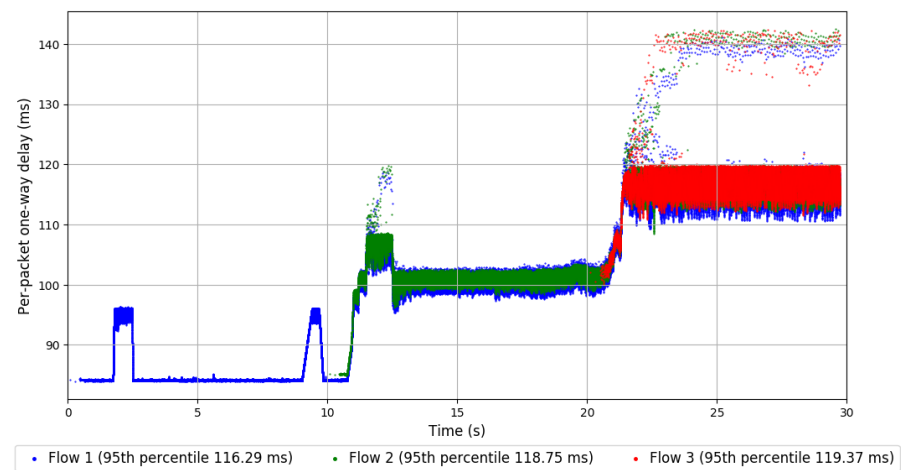
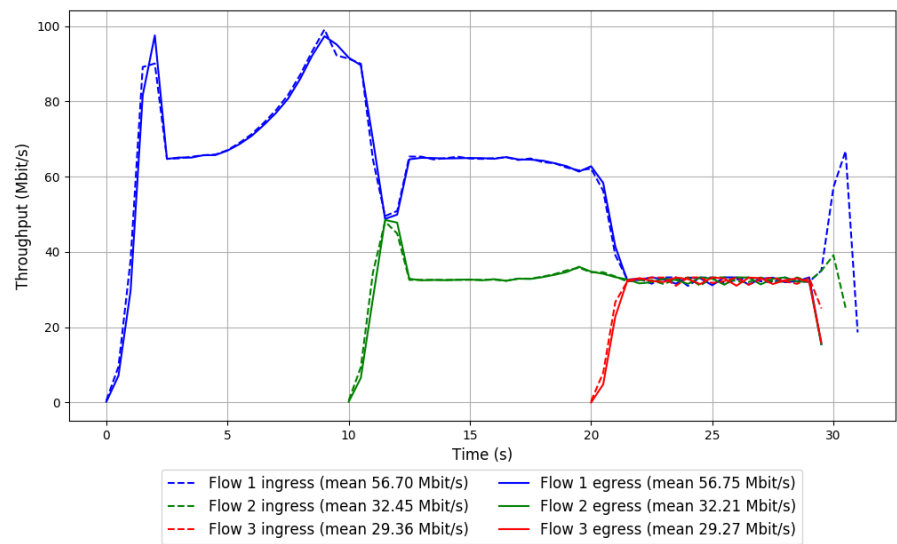
-- Flow 3:

Average throughput: 29.27 Mbit/s

95th percentile per-packet one-way delay: 119.368 ms

Loss rate: 2.86%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2018-04-10 19:31:33

End at: 2018-04-10 19:32:03

Local clock offset: -6.495 ms

Remote clock offset: 7.448 ms

Below is generated by plot.py at 2018-04-11 02:18:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 74.50 Mbit/s

95th percentile per-packet one-way delay: 79.012 ms

Loss rate: 3.01%

-- Flow 1:

Average throughput: 70.40 Mbit/s

95th percentile per-packet one-way delay: 78.724 ms

Loss rate: 2.93%

-- Flow 2:

Average throughput: 4.20 Mbit/s

95th percentile per-packet one-way delay: 79.156 ms

Loss rate: 3.79%

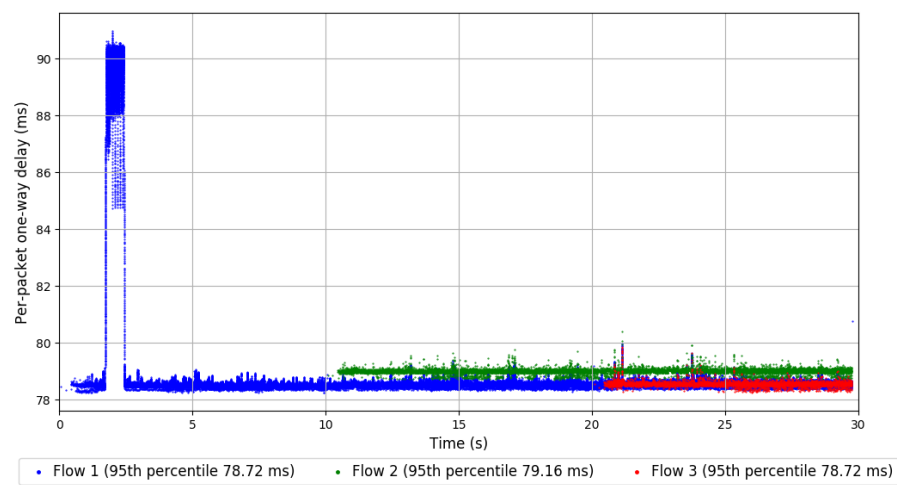
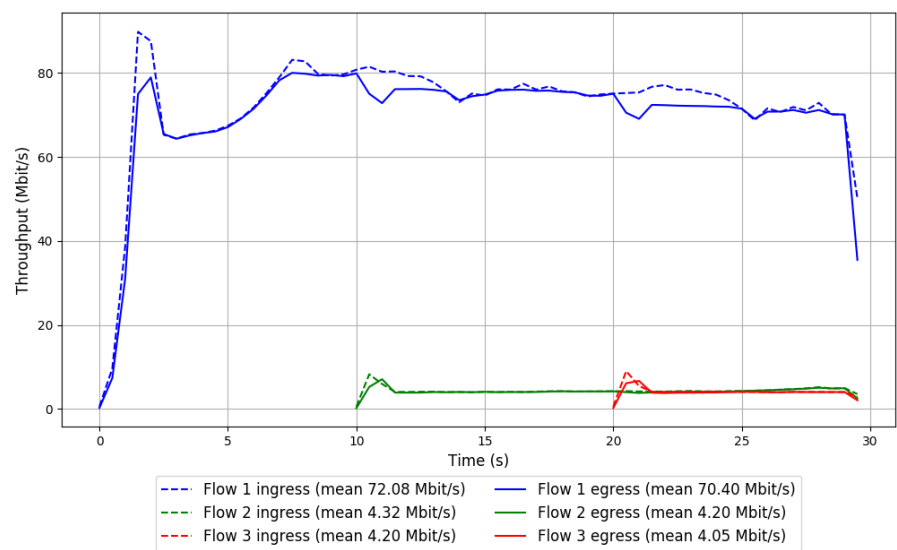
-- Flow 3:

Average throughput: 4.05 Mbit/s

95th percentile per-packet one-way delay: 78.724 ms

Loss rate: 5.32%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2018-04-10 19:55:54

End at: 2018-04-10 19:56:24

Local clock offset: -5.105 ms

Remote clock offset: 3.151 ms

Below is generated by plot.py at 2018-04-11 02:18:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.45 Mbit/s

95th percentile per-packet one-way delay: 118.659 ms

Loss rate: 4.70%

-- Flow 1:

Average throughput: 56.43 Mbit/s

95th percentile per-packet one-way delay: 117.617 ms

Loss rate: 3.94%

-- Flow 2:

Average throughput: 32.52 Mbit/s

95th percentile per-packet one-way delay: 118.574 ms

Loss rate: 1.26%

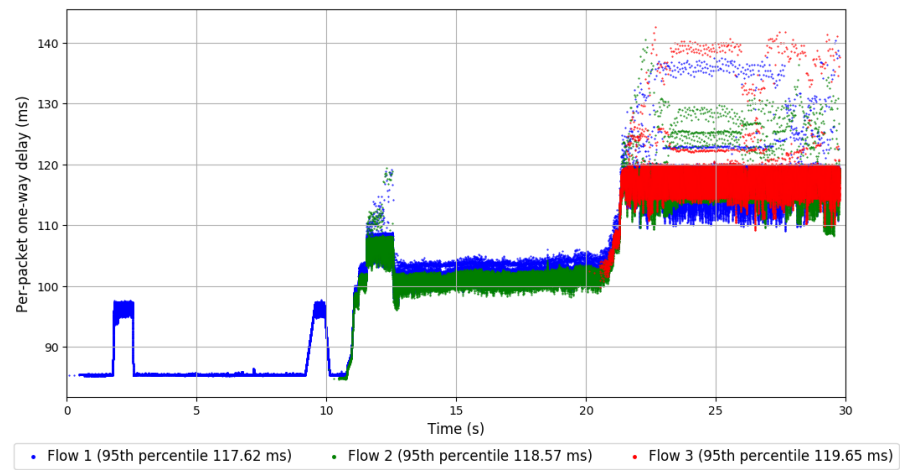
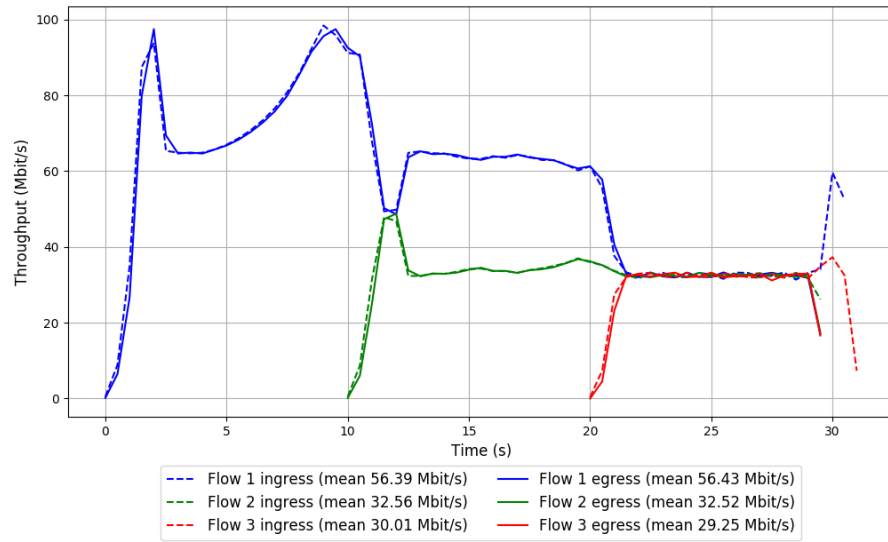
-- Flow 3:

Average throughput: 29.25 Mbit/s

95th percentile per-packet one-way delay: 119.651 ms

Loss rate: 15.31%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

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

End at: 2018-04-10 20:20:34

Local clock offset: -5.89 ms

Remote clock offset: 8.861 ms

Below is generated by plot.py at 2018-04-11 02:18:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.37 Mbit/s

95th percentile per-packet one-way delay: 113.533 ms

Loss rate: 2.82%

-- Flow 1:

Average throughput: 56.25 Mbit/s

95th percentile per-packet one-way delay: 112.661 ms

Loss rate: 0.47%

-- Flow 2:

Average throughput: 32.72 Mbit/s

95th percentile per-packet one-way delay: 114.207 ms

Loss rate: 5.11%

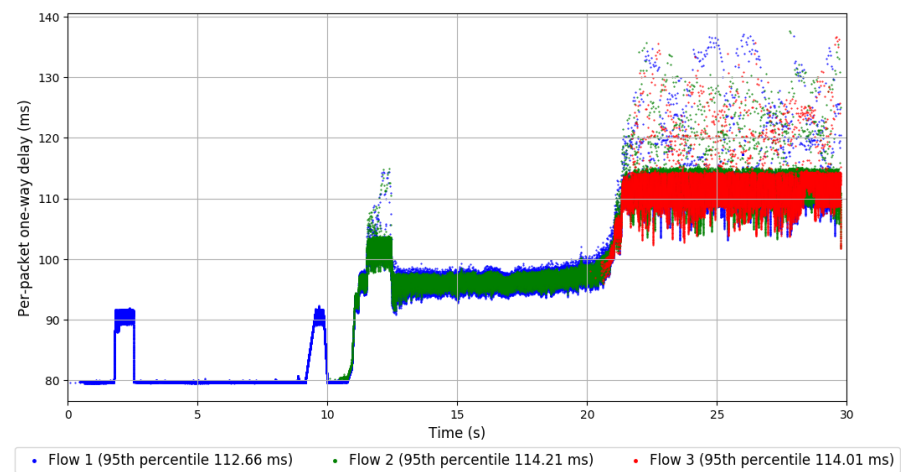
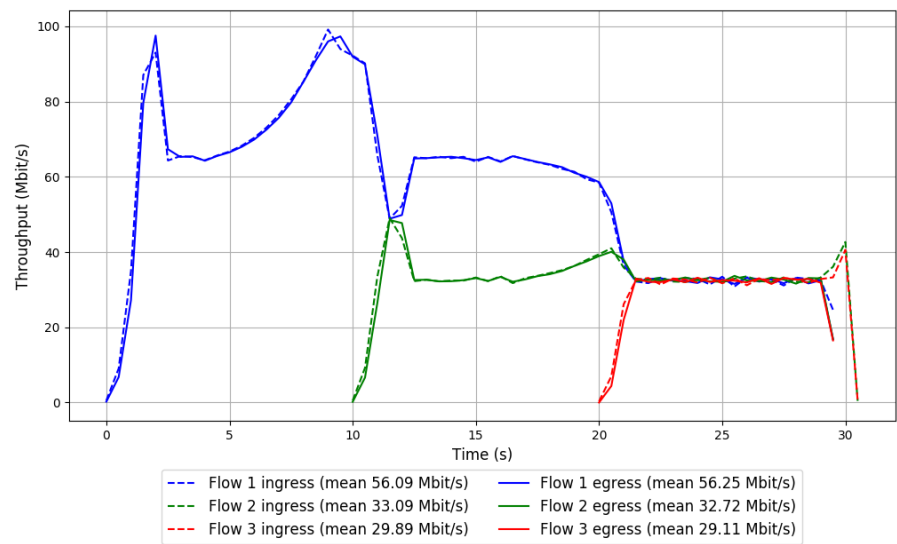
-- Flow 3:

Average throughput: 29.11 Mbit/s

95th percentile per-packet one-way delay: 114.013 ms

Loss rate: 10.42%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2018-04-10 20:44:04

End at: 2018-04-10 20:44:34

Local clock offset: -4.74 ms

Remote clock offset: 7.728 ms

Below is generated by plot.py at 2018-04-11 02:18:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 73.80 Mbit/s

95th percentile per-packet one-way delay: 81.283 ms

Loss rate: 2.93%

-- Flow 1:

Average throughput: 70.50 Mbit/s

95th percentile per-packet one-way delay: 81.288 ms

Loss rate: 2.90%

-- Flow 2:

Average throughput: 3.87 Mbit/s

95th percentile per-packet one-way delay: 80.101 ms

Loss rate: 3.62%

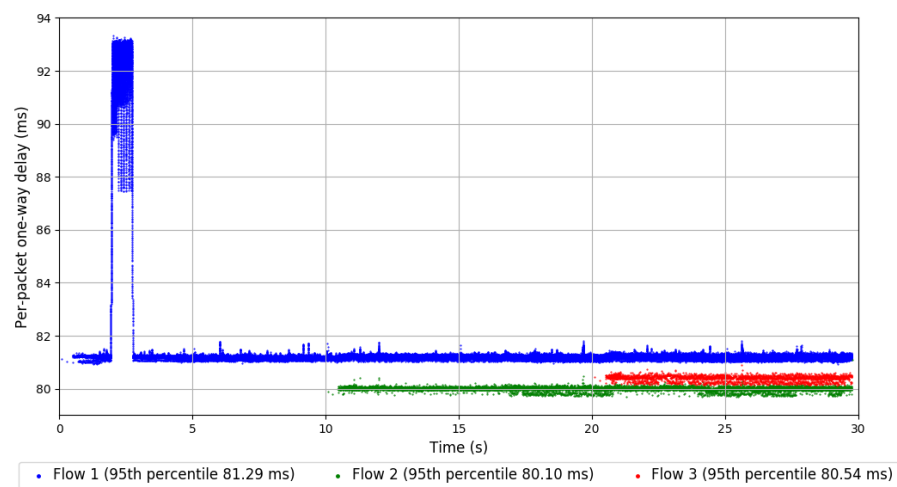
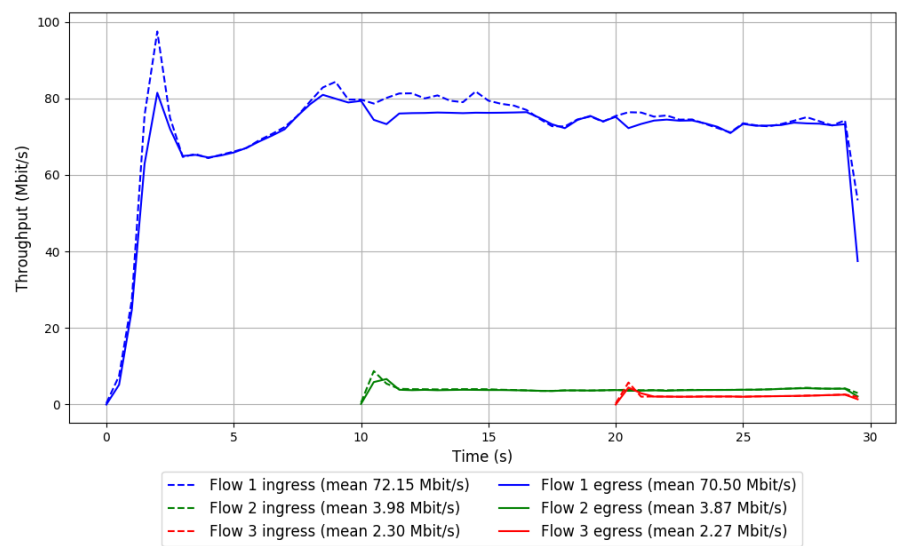
-- Flow 3:

Average throughput: 2.27 Mbit/s

95th percentile per-packet one-way delay: 80.540 ms

Loss rate: 3.40%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

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

End at: 2018-04-10 21:08:51

Local clock offset: -5.107 ms

Remote clock offset: 6.74 ms

Below is generated by plot.py at 2018-04-11 02:18:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.45 Mbit/s

95th percentile per-packet one-way delay: 113.702 ms

Loss rate: 4.63%

-- Flow 1:

Average throughput: 57.07 Mbit/s

95th percentile per-packet one-way delay: 113.615 ms

Loss rate: 4.07%

-- Flow 2:

Average throughput: 31.27 Mbit/s

95th percentile per-packet one-way delay: 113.716 ms

Loss rate: 1.31%

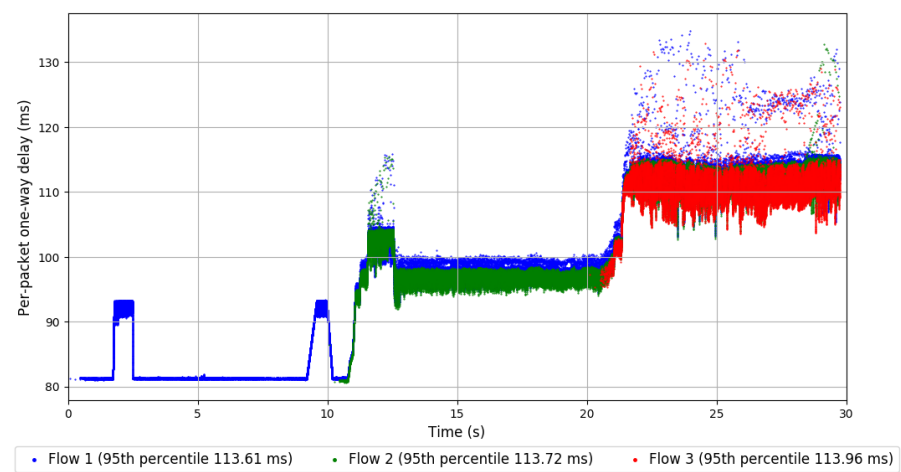
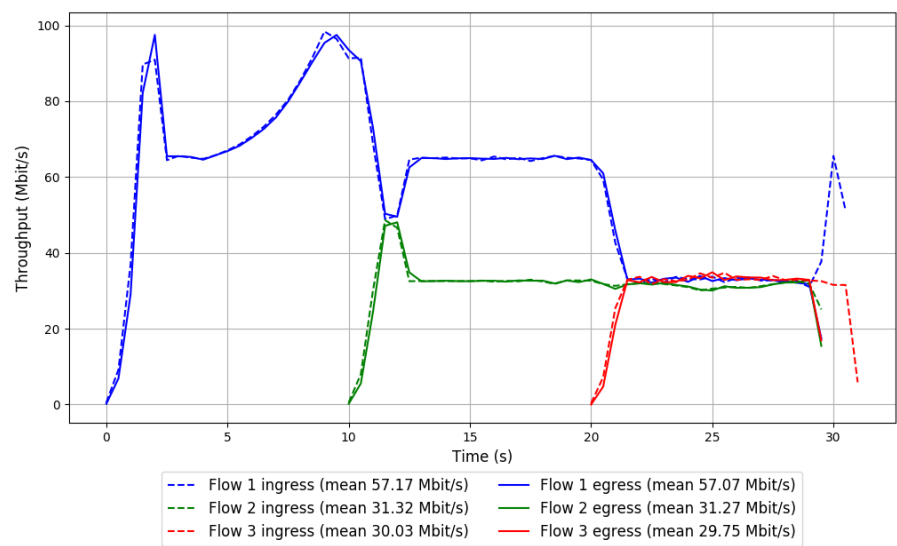
-- Flow 3:

Average throughput: 29.75 Mbit/s

95th percentile per-packet one-way delay: 113.962 ms

Loss rate: 13.80%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2018-04-10 21:32:23

End at: 2018-04-10 21:32:53

Local clock offset: -6.267 ms

Remote clock offset: 2.51 ms

Below is generated by plot.py at 2018-04-11 02:19:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 74.30 Mbit/s

95th percentile per-packet one-way delay: 84.921 ms

Loss rate: 2.97%

-- Flow 1:

Average throughput: 70.18 Mbit/s

95th percentile per-packet one-way delay: 84.926 ms

Loss rate: 2.90%

-- Flow 2:

Average throughput: 4.23 Mbit/s

95th percentile per-packet one-way delay: 84.569 ms

Loss rate: 3.79%

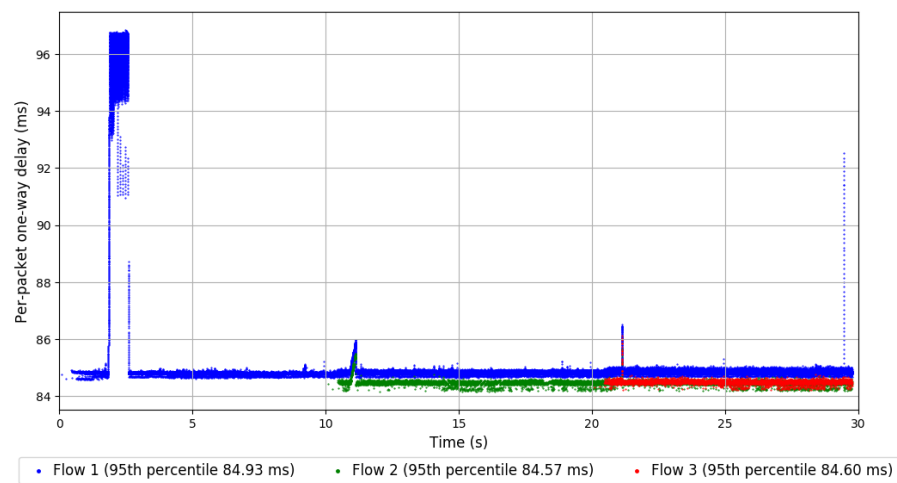
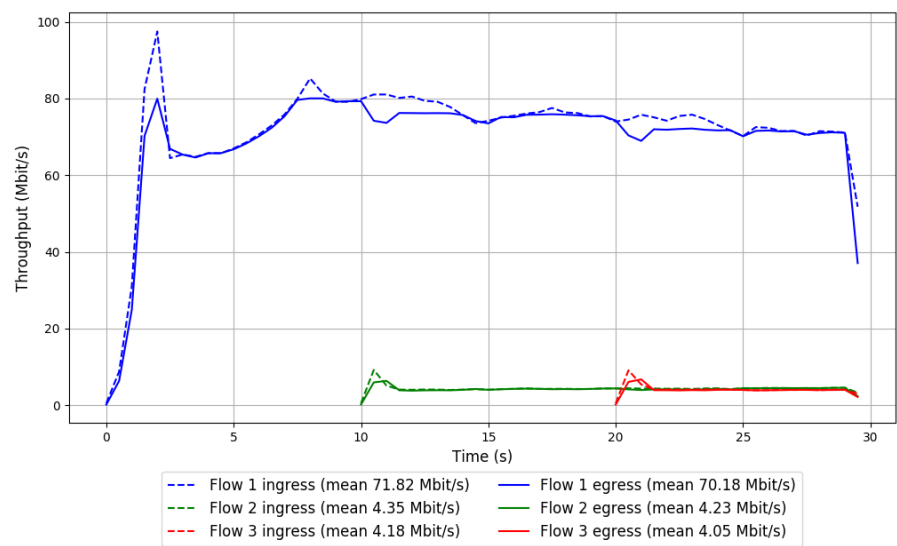
-- Flow 3:

Average throughput: 4.05 Mbit/s

95th percentile per-packet one-way delay: 84.599 ms

Loss rate: 4.82%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2018-04-10 21:56:35

End at: 2018-04-10 21:57:05

Local clock offset: -4.878 ms

Remote clock offset: 7.134 ms

Below is generated by plot.py at 2018-04-11 02:19:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 74.45 Mbit/s

95th percentile per-packet one-way delay: 80.806 ms

Loss rate: 3.10%

-- Flow 1:

Average throughput: 70.28 Mbit/s

95th percentile per-packet one-way delay: 80.606 ms

Loss rate: 3.04%

-- Flow 2:

Average throughput: 4.13 Mbit/s

95th percentile per-packet one-way delay: 80.893 ms

Loss rate: 3.73%

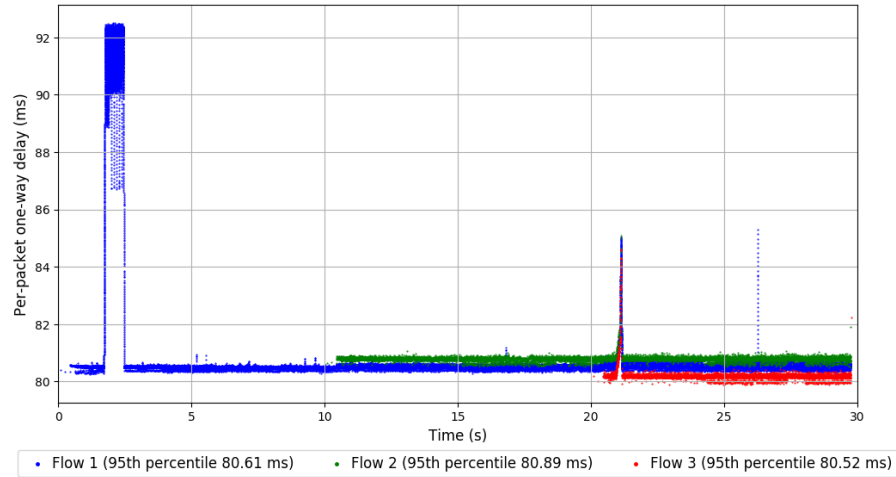
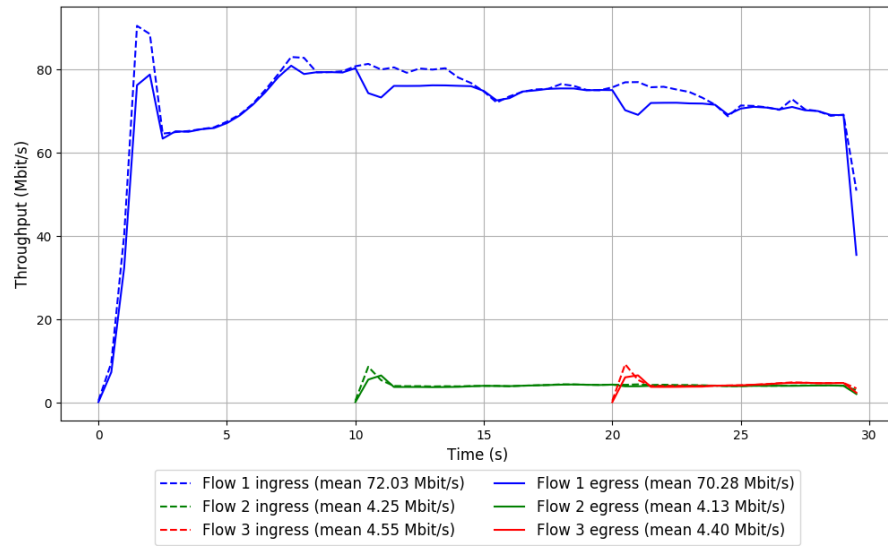
-- Flow 3:

Average throughput: 4.40 Mbit/s

95th percentile per-packet one-way delay: 80.515 ms

Loss rate: 5.10%

Run 10: Report of PCC — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2018-04-10 18:27:08

End at: 2018-04-10 18:27:38

Local clock offset: -4.791 ms

Remote clock offset: 8.785 ms

Below is generated by plot.py at 2018-04-11 02:19:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 70.36 Mbit/s

95th percentile per-packet one-way delay: 105.141 ms

Loss rate: 0.87%

-- Flow 1:

Average throughput: 40.19 Mbit/s

95th percentile per-packet one-way delay: 103.249 ms

Loss rate: 0.19%

-- Flow 2:

Average throughput: 29.85 Mbit/s

95th percentile per-packet one-way delay: 105.417 ms

Loss rate: 0.47%

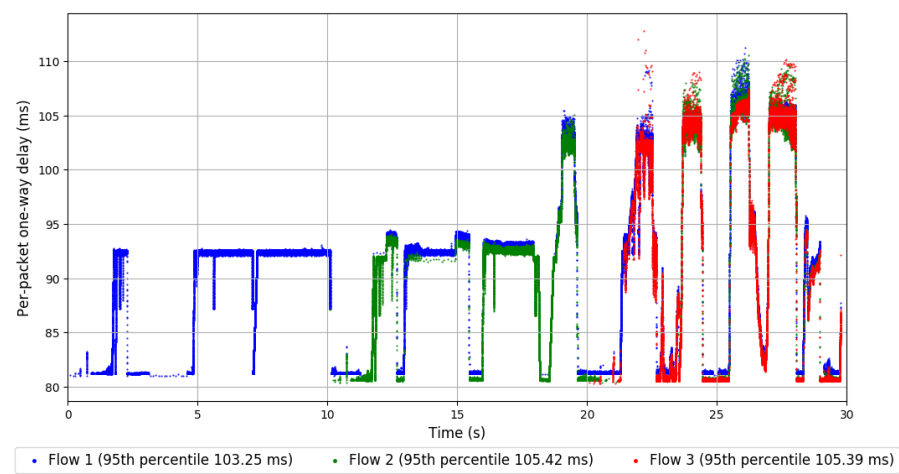
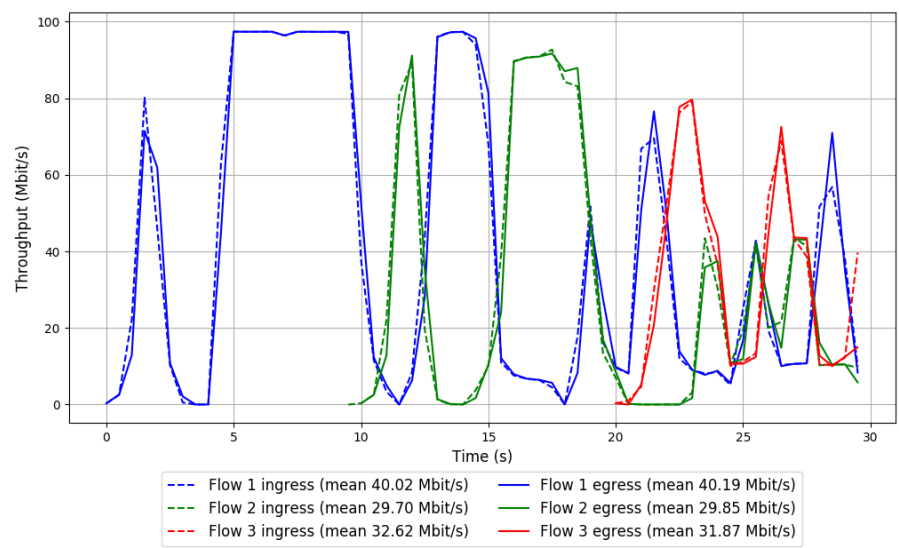
-- Flow 3:

Average throughput: 31.87 Mbit/s

95th percentile per-packet one-way delay: 105.393 ms

Loss rate: 4.11%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-04-10 18:51:19

End at: 2018-04-10 18:51:49

Local clock offset: -4.723 ms

Remote clock offset: 9.831 ms

Below is generated by plot.py at 2018-04-11 02:19:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 70.94 Mbit/s

95th percentile per-packet one-way delay: 112.792 ms

Loss rate: 0.72%

-- Flow 1:

Average throughput: 46.55 Mbit/s

95th percentile per-packet one-way delay: 111.797 ms

Loss rate: 0.76%

-- Flow 2:

Average throughput: 24.90 Mbit/s

95th percentile per-packet one-way delay: 112.787 ms

Loss rate: 0.42%

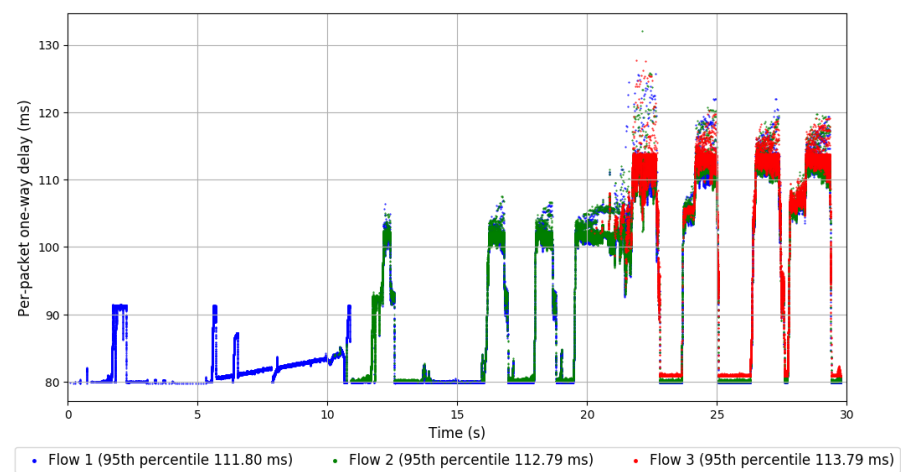
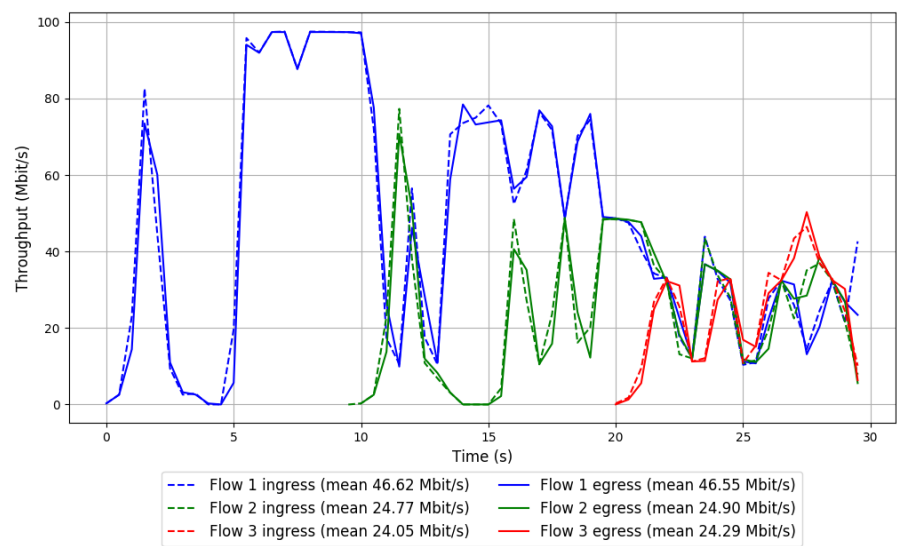
-- Flow 3:

Average throughput: 24.29 Mbit/s

95th percentile per-packet one-way delay: 113.786 ms

Loss rate: 1.15%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-04-10 19:15:28

End at: 2018-04-10 19:15:58

Local clock offset: -4.634 ms

Remote clock offset: 2.528 ms

Below is generated by plot.py at 2018-04-11 02:19:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 48.42 Mbit/s

95th percentile per-packet one-way delay: 96.436 ms

Loss rate: 3.00%

-- Flow 1:

Average throughput: 23.67 Mbit/s

95th percentile per-packet one-way delay: 96.487 ms

Loss rate: 3.43%

-- Flow 2:

Average throughput: 23.99 Mbit/s

95th percentile per-packet one-way delay: 95.550 ms

Loss rate: 2.37%

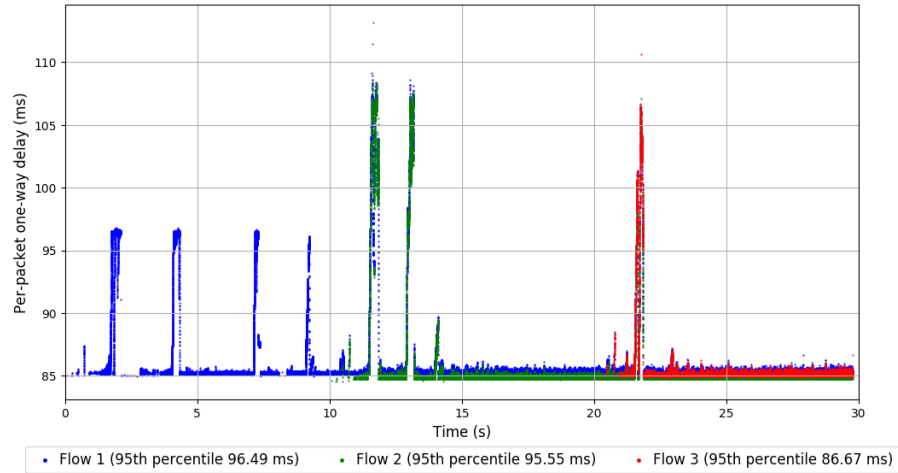
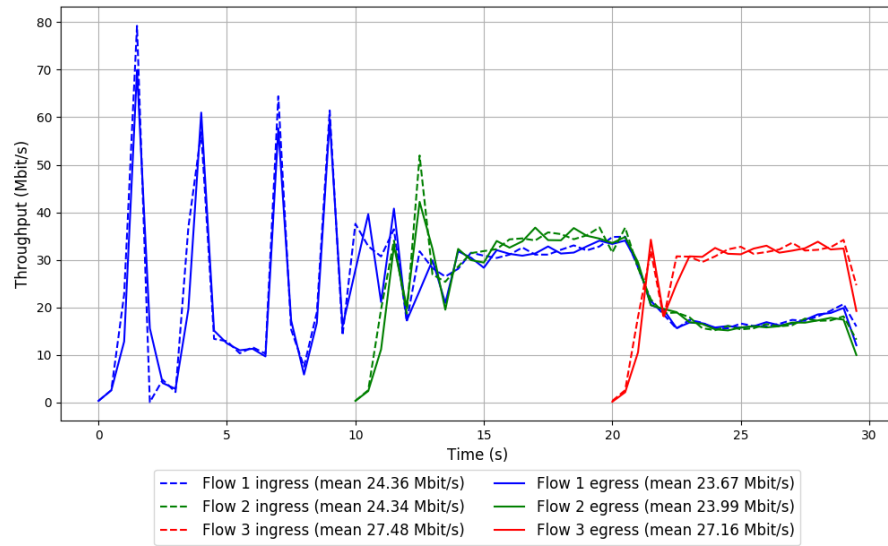
-- Flow 3:

Average throughput: 27.16 Mbit/s

95th percentile per-packet one-way delay: 86.672 ms

Loss rate: 2.96%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-04-10 19:39:23

End at: 2018-04-10 19:39:53

Local clock offset: -5.047 ms

Remote clock offset: 2.829 ms

Below is generated by plot.py at 2018-04-11 02:19:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 65.14 Mbit/s

95th percentile per-packet one-way delay: 109.564 ms

Loss rate: 1.00%

-- Flow 1:

Average throughput: 41.27 Mbit/s

95th percentile per-packet one-way delay: 109.687 ms

Loss rate: 1.03%

-- Flow 2:

Average throughput: 33.04 Mbit/s

95th percentile per-packet one-way delay: 108.690 ms

Loss rate: 0.79%

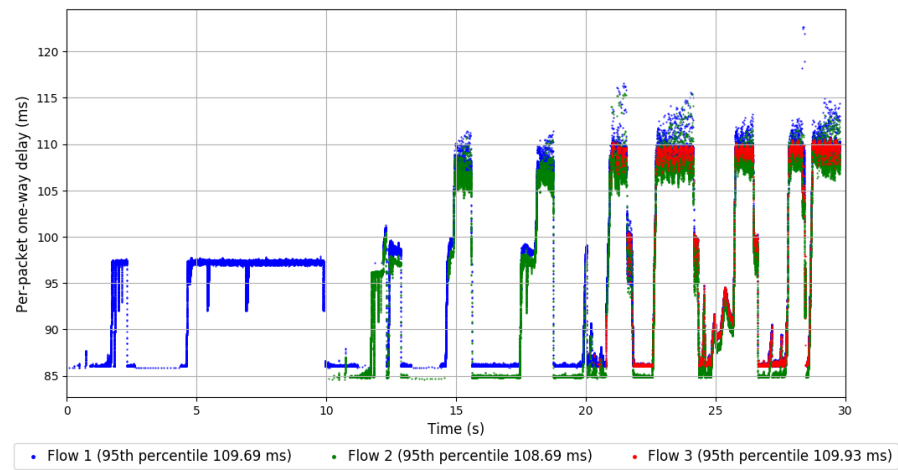
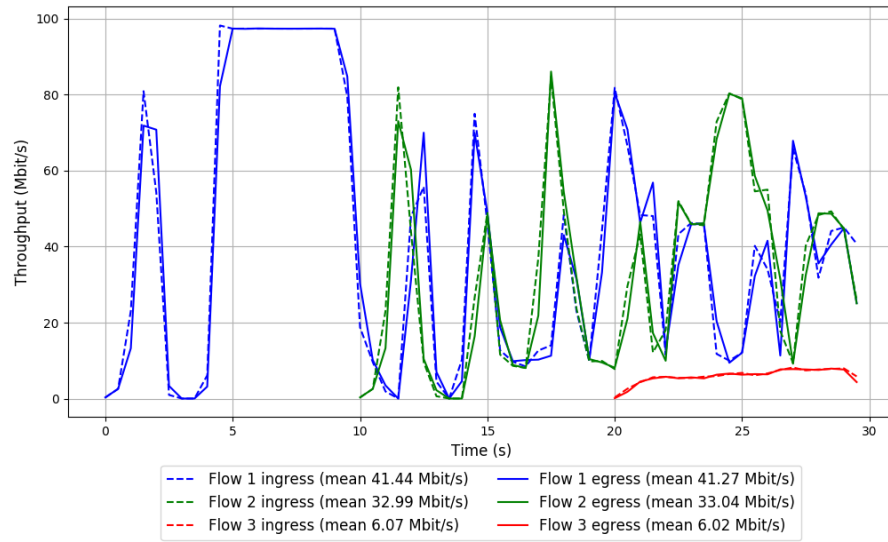
-- Flow 3:

Average throughput: 6.02 Mbit/s

95th percentile per-packet one-way delay: 109.932 ms

Loss rate: 2.75%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-04-10 20:03:51

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

Local clock offset: -6.651 ms

Remote clock offset: 3.419 ms

Below is generated by plot.py at 2018-04-11 02:19:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 62.98 Mbit/s

95th percentile per-packet one-way delay: 116.201 ms

Loss rate: 1.10%

-- Flow 1:

Average throughput: 40.02 Mbit/s

95th percentile per-packet one-way delay: 115.292 ms

Loss rate: 0.58%

-- Flow 2:

Average throughput: 22.65 Mbit/s

95th percentile per-packet one-way delay: 116.667 ms

Loss rate: 1.55%

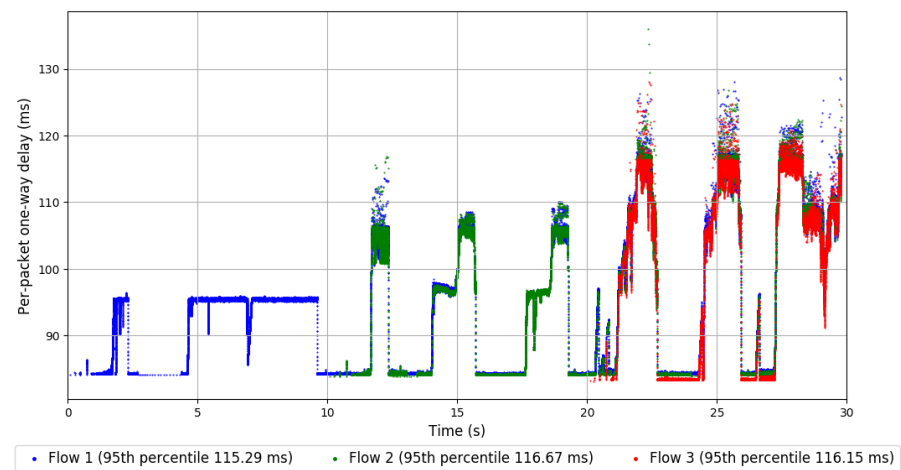
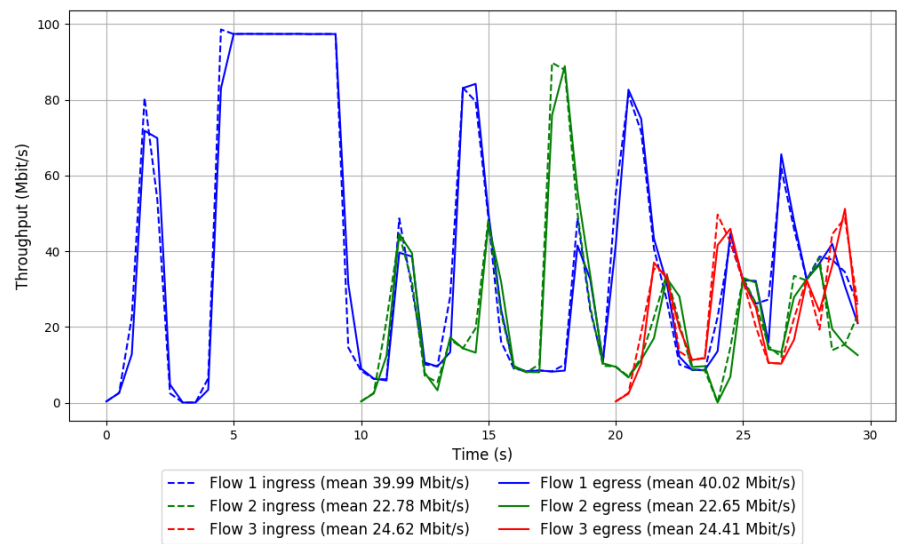
-- Flow 3:

Average throughput: 24.41 Mbit/s

95th percentile per-packet one-way delay: 116.148 ms

Loss rate: 2.77%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-04-10 20:28:02

End at: 2018-04-10 20:28:32

Local clock offset: -5.782 ms

Remote clock offset: 9.047 ms

Below is generated by plot.py at 2018-04-11 02:19:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 47.48 Mbit/s

95th percentile per-packet one-way delay: 90.770 ms

Loss rate: 2.60%

-- Flow 1:

Average throughput: 23.31 Mbit/s

95th percentile per-packet one-way delay: 90.573 ms

Loss rate: 2.36%

-- Flow 2:

Average throughput: 28.64 Mbit/s

95th percentile per-packet one-way delay: 93.523 ms

Loss rate: 2.95%

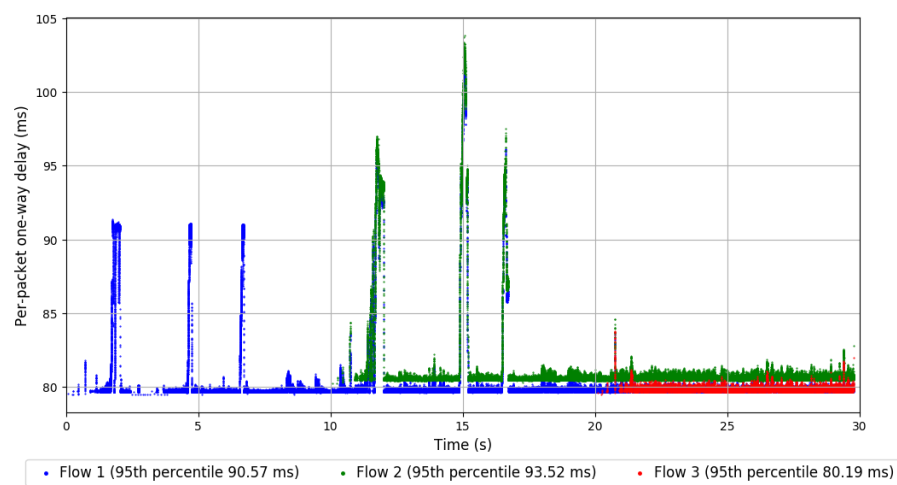
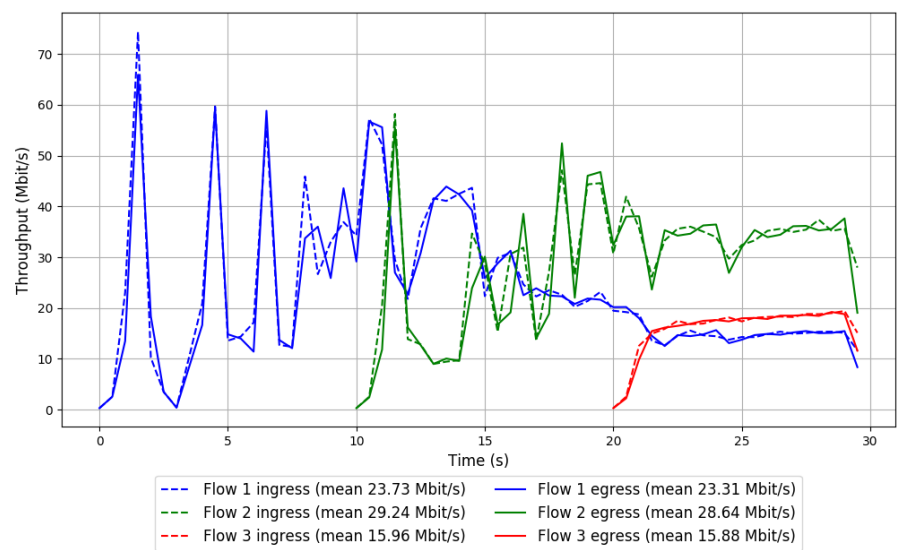
-- Flow 3:

Average throughput: 15.88 Mbit/s

95th percentile per-packet one-way delay: 80.190 ms

Loss rate: 2.32%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-04-10 20:52:02

End at: 2018-04-10 20:52:32

Local clock offset: -6.216 ms

Remote clock offset: 2.413 ms

Below is generated by plot.py at 2018-04-11 02:20:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 68.98 Mbit/s

95th percentile per-packet one-way delay: 116.671 ms

Loss rate: 1.01%

-- Flow 1:

Average throughput: 35.78 Mbit/s

95th percentile per-packet one-way delay: 115.854 ms

Loss rate: 0.29%

-- Flow 2:

Average throughput: 34.89 Mbit/s

95th percentile per-packet one-way delay: 117.200 ms

Loss rate: 1.32%

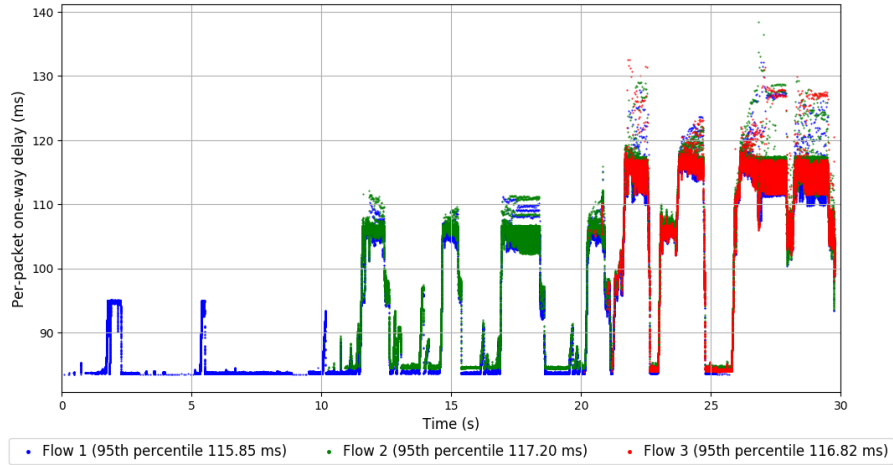
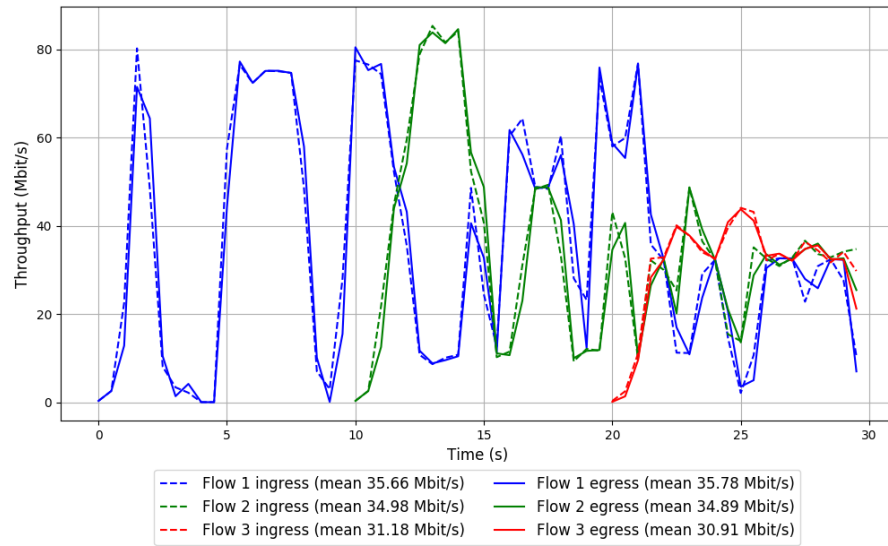
-- Flow 3:

Average throughput: 30.91 Mbit/s

95th percentile per-packet one-way delay: 116.824 ms

Loss rate: 2.83%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-04-10 21:16:13

End at: 2018-04-10 21:16:43

Local clock offset: -5.276 ms

Remote clock offset: 7.149 ms

Below is generated by plot.py at 2018-04-11 02:20:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 68.81 Mbit/s

95th percentile per-packet one-way delay: 109.281 ms

Loss rate: 0.99%

-- Flow 1:

Average throughput: 39.80 Mbit/s

95th percentile per-packet one-way delay: 105.585 ms

Loss rate: 0.79%

-- Flow 2:

Average throughput: 36.90 Mbit/s

95th percentile per-packet one-way delay: 108.860 ms

Loss rate: 1.31%

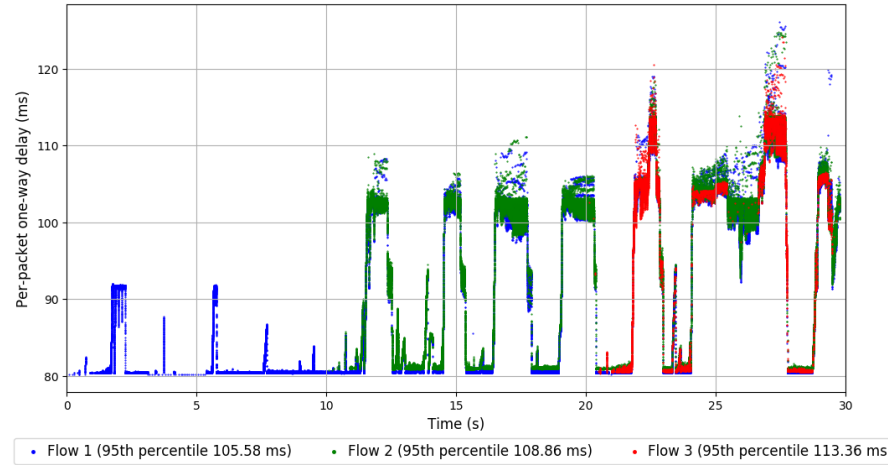
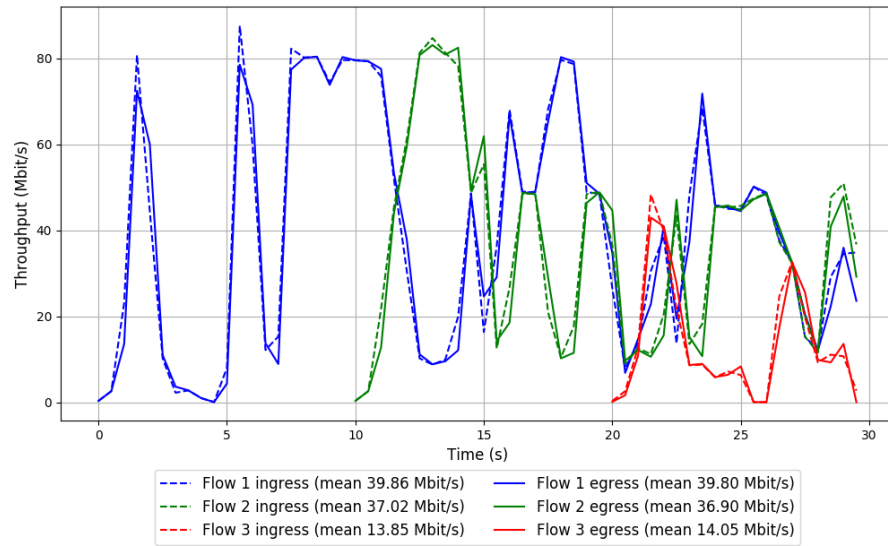
-- Flow 3:

Average throughput: 14.05 Mbit/s

95th percentile per-packet one-way delay: 113.355 ms

Loss rate: 0.98%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-04-10 21:40:27

End at: 2018-04-10 21:40:57

Local clock offset: -5.109 ms

Remote clock offset: 7.246 ms

Below is generated by plot.py at 2018-04-11 02:20:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 61.18 Mbit/s

95th percentile per-packet one-way delay: 105.475 ms

Loss rate: 0.43%

-- Flow 1:

Average throughput: 39.22 Mbit/s

95th percentile per-packet one-way delay: 104.725 ms

Loss rate: 0.17%

-- Flow 2:

Average throughput: 28.20 Mbit/s

95th percentile per-packet one-way delay: 105.987 ms

Loss rate: 0.59%

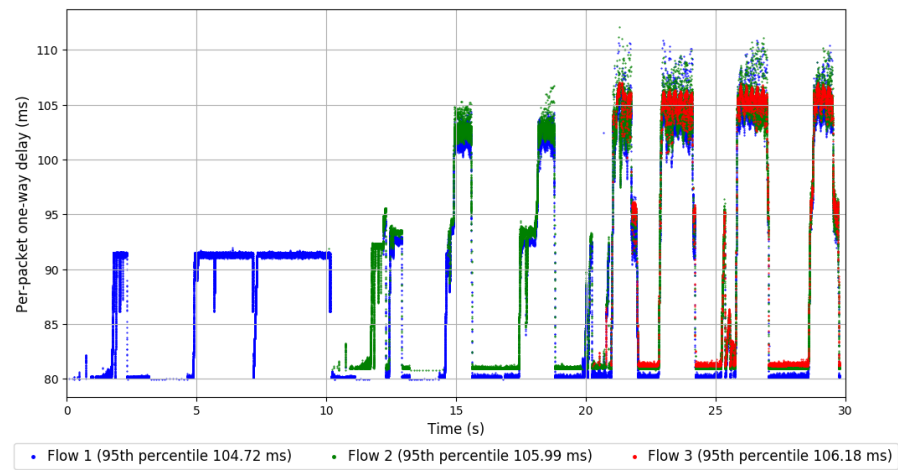
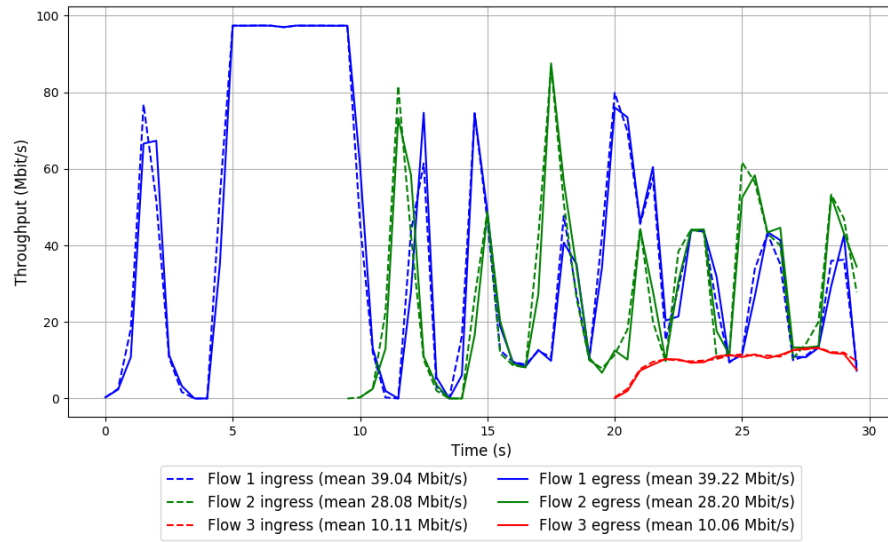
-- Flow 3:

Average throughput: 10.06 Mbit/s

95th percentile per-packet one-way delay: 106.181 ms

Loss rate: 2.48%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

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

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

Local clock offset: -4.781 ms

Remote clock offset: 7.073 ms

Below is generated by plot.py at 2018-04-11 02:20:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 60.21 Mbit/s

95th percentile per-packet one-way delay: 104.794 ms

Loss rate: 1.12%

-- Flow 1:

Average throughput: 39.69 Mbit/s

95th percentile per-packet one-way delay: 104.348 ms

Loss rate: 0.78%

-- Flow 2:

Average throughput: 27.94 Mbit/s

95th percentile per-packet one-way delay: 105.135 ms

Loss rate: 1.67%

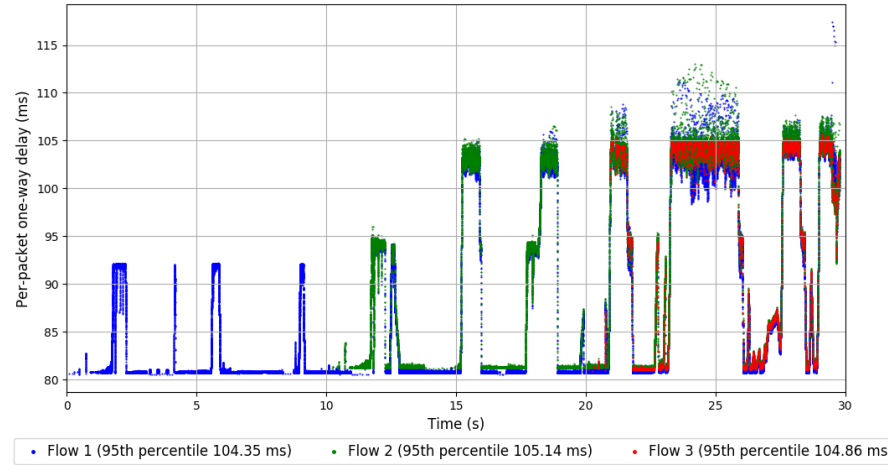
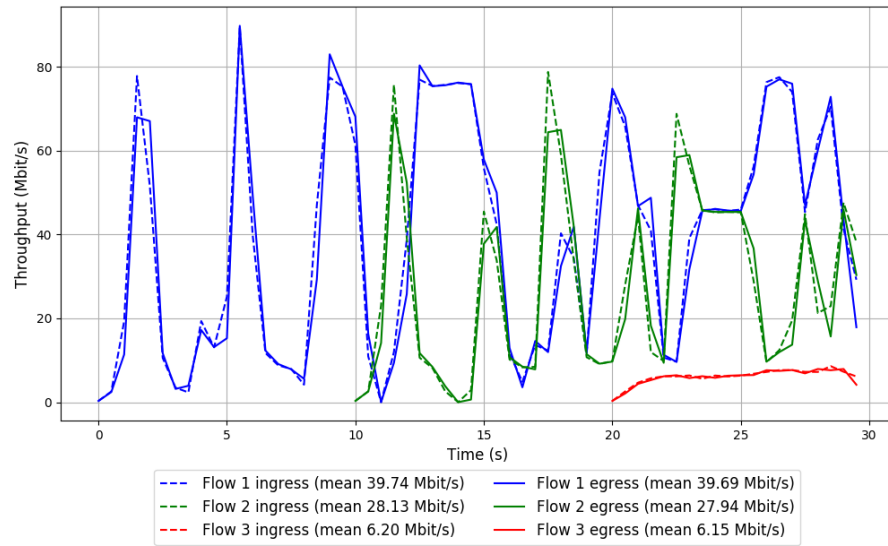
-- Flow 3:

Average throughput: 6.15 Mbit/s

95th percentile per-packet one-way delay: 104.860 ms

Loss rate: 2.67%

Run 10: Report of QUIC Cubic — Data Link

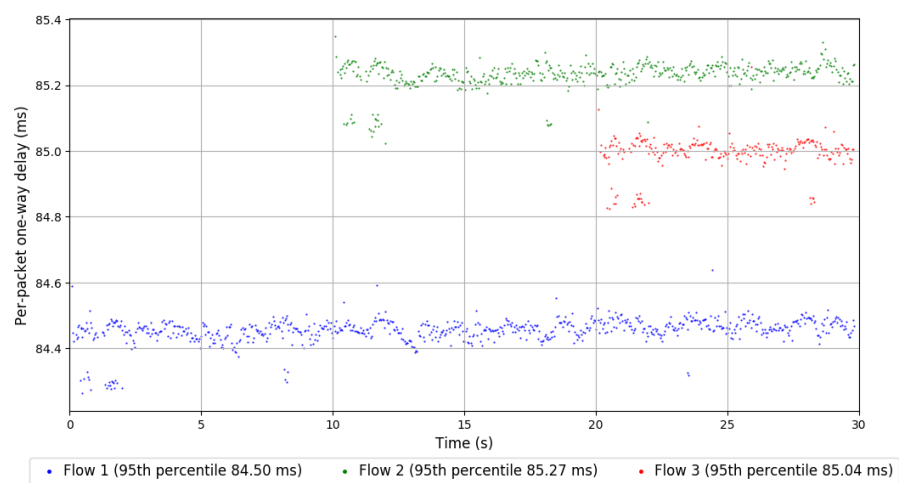
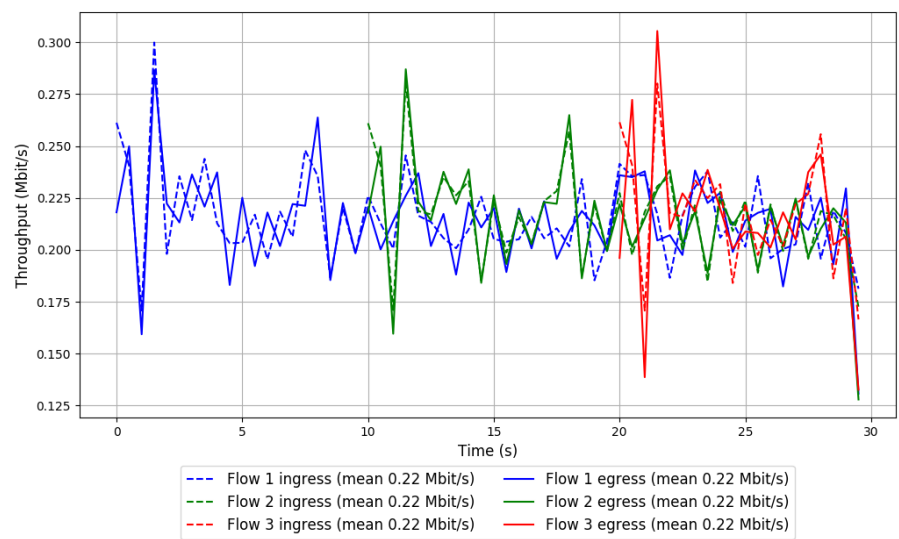


```
Run 1: Statistics of SReAM

Start at: 2018-04-10 18:25:54
End at: 2018-04-10 18:26:24
Local clock offset: -5.548 ms
Remote clock offset: 3.936 ms

# Below is generated by plot.py at 2018-04-11 02:20:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 85.261 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 84.496 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 85.274 ms
Loss rate: 0.84%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 85.039 ms
Loss rate: 1.86%
```

Run 1: Report of SReAM — Data Link

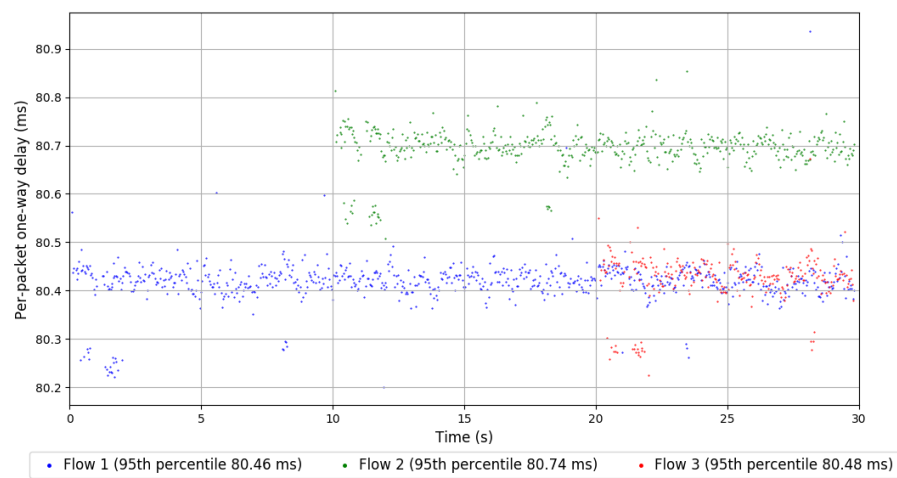
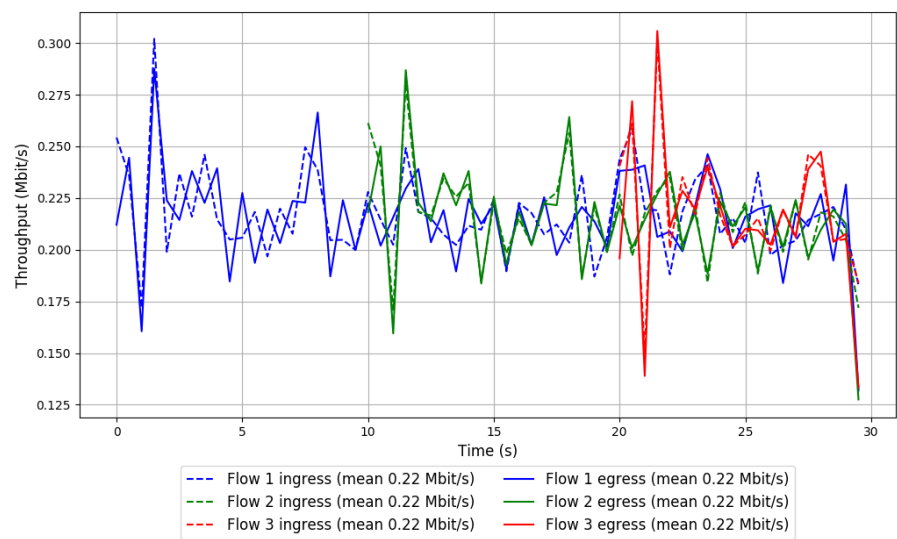


```
Run 2: Statistics of SReAM

Start at: 2018-04-10 18:50:04
End at: 2018-04-10 18:50:34
Local clock offset: -4.704 ms
Remote clock offset: 9.818 ms

# Below is generated by plot.py at 2018-04-11 02:20:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 80.723 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 80.458 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 80.739 ms
Loss rate: 0.84%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 80.480 ms
Loss rate: 1.87%
```

Run 2: Report of SReAM — Data Link

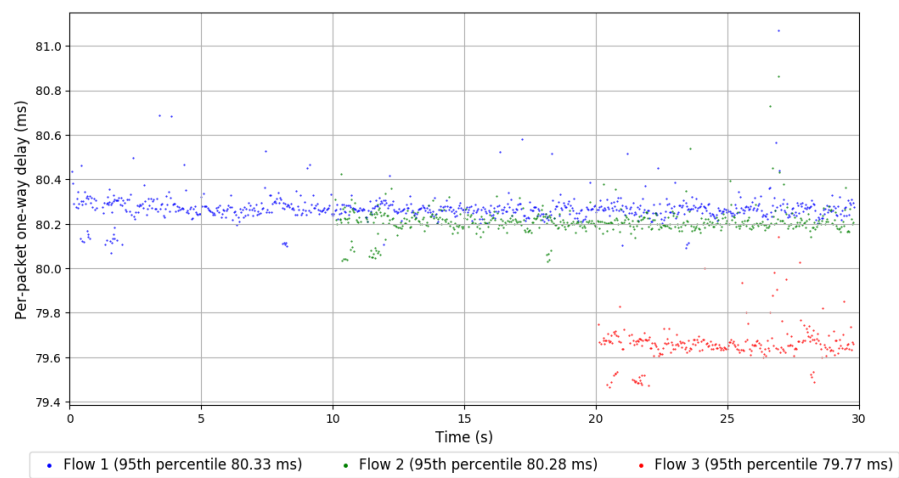
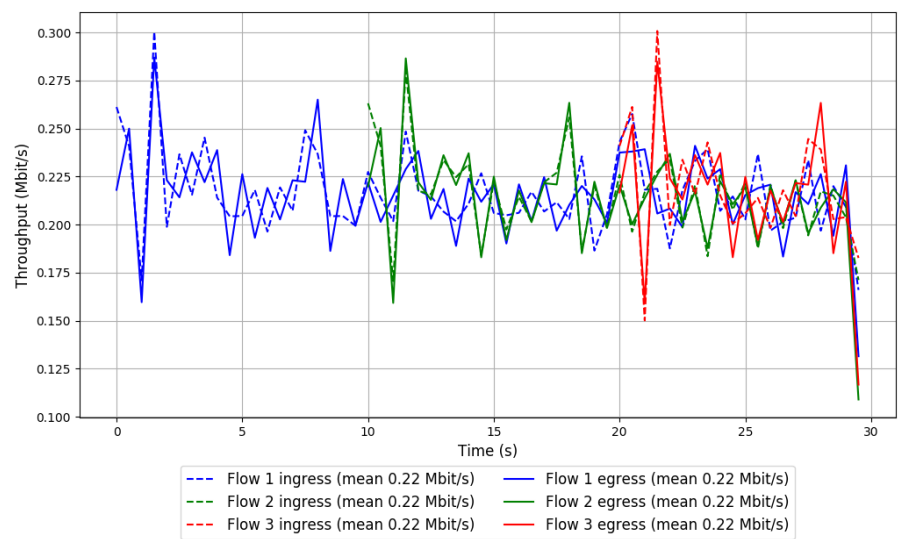


Run 3: Statistics of SReAM

Start at: 2018-04-10 19:14:14
End at: 2018-04-10 19:14:44
Local clock offset: -5.399 ms
Remote clock offset: 7.364 ms

Below is generated by plot.py at 2018-04-11 02:20:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 80.318 ms
Loss rate: 0.92%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 80.331 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 80.282 ms
Loss rate: 1.05%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 79.766 ms
Loss rate: 1.86%

Run 3: Report of SReAM — Data Link

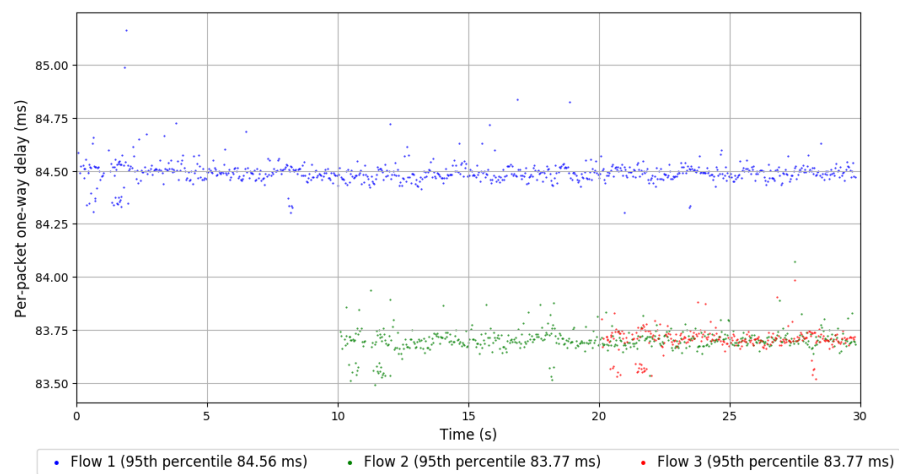
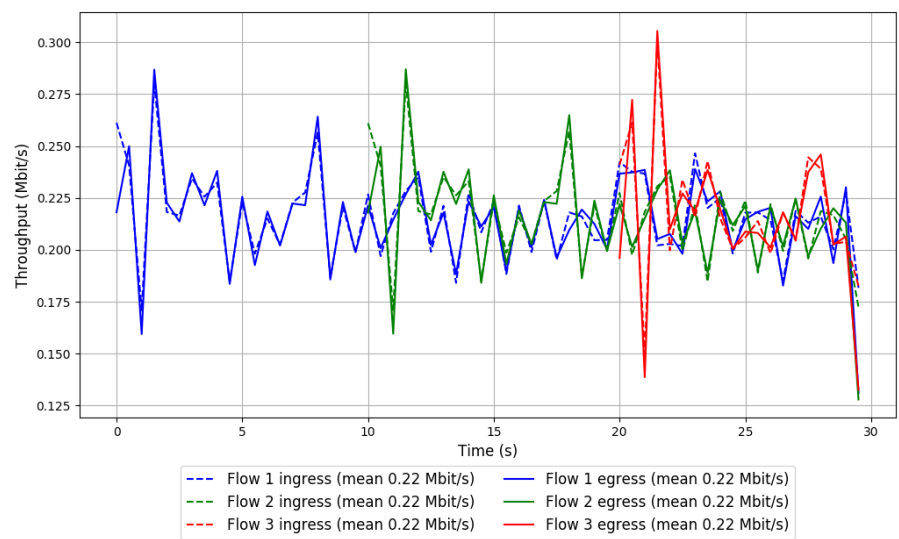


Run 4: Statistics of SReAM

Start at: 2018-04-10 19:38:08
End at: 2018-04-10 19:38:38
Local clock offset: -6.559 ms
Remote clock offset: 2.874 ms

Below is generated by plot.py at 2018-04-11 02:20:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 84.532 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 84.556 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 83.774 ms
Loss rate: 0.84%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 83.769 ms
Loss rate: 1.86%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SReAM

Start at: 2018-04-10 20:02:36

End at: 2018-04-10 20:03:06

Local clock offset: -5.845 ms

Remote clock offset: 3.383 ms

Below is generated by plot.py at 2018-04-11 02:20:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 85.060 ms

Loss rate: 0.91%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 85.082 ms

Loss rate: 0.64%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 84.129 ms

Loss rate: 0.85%

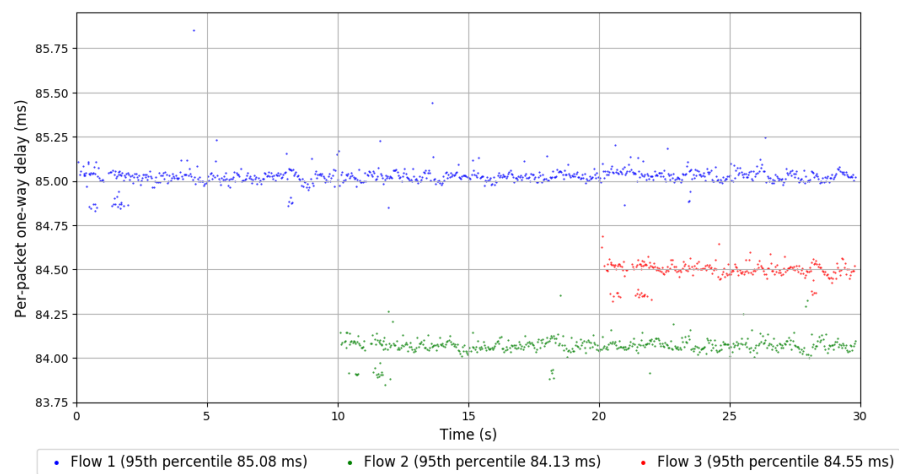
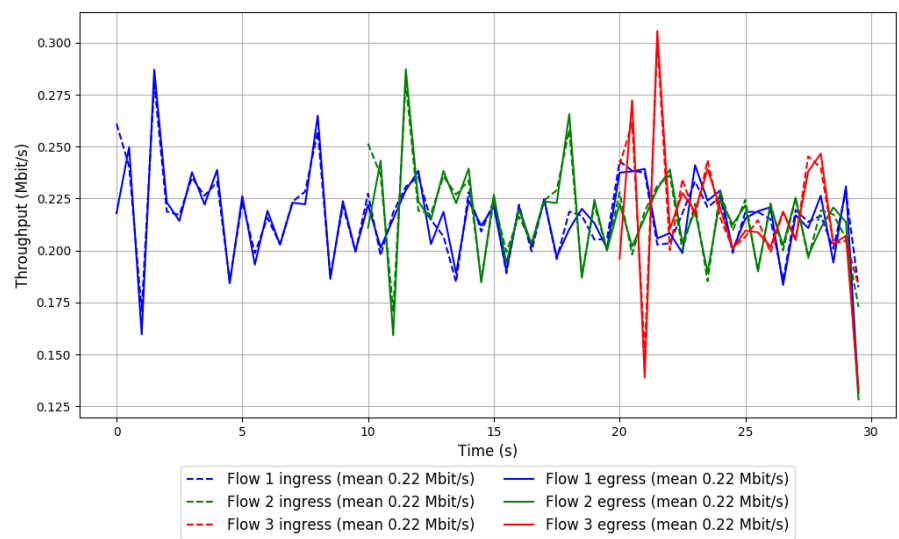
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 84.554 ms

Loss rate: 1.86%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SReAM

Start at: 2018-04-10 20:26:47

End at: 2018-04-10 20:27:17

Local clock offset: -5.837 ms

Remote clock offset: 9.056 ms

Below is generated by plot.py at 2018-04-11 02:20:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 79.706 ms

Loss rate: 0.91%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 79.684 ms

Loss rate: 0.64%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 79.711 ms

Loss rate: 0.84%

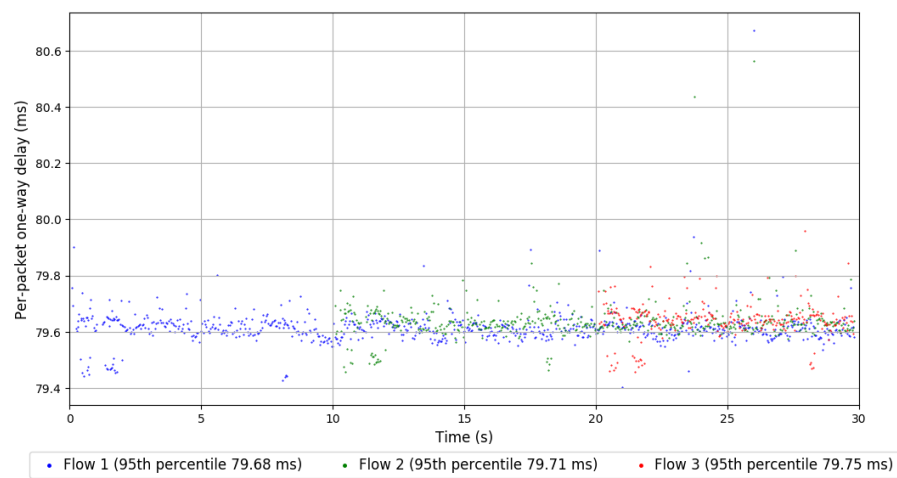
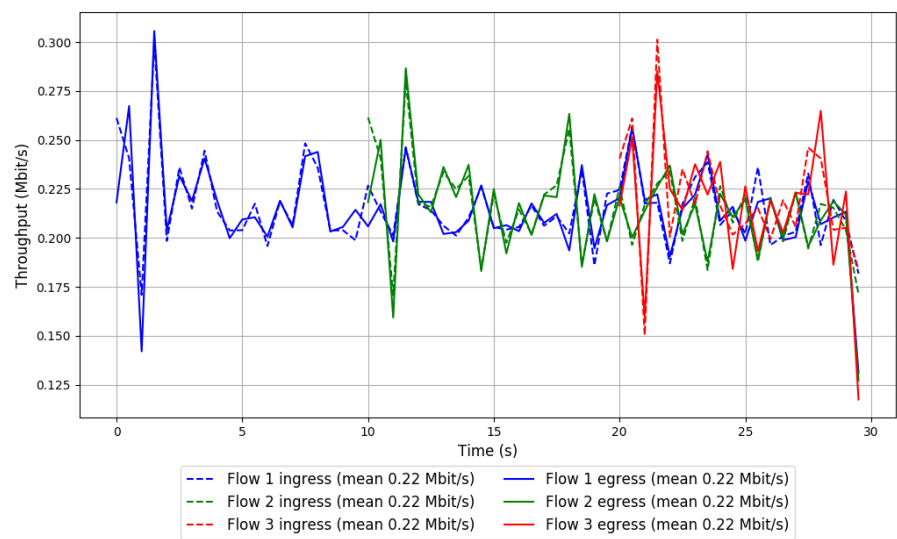
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 79.750 ms

Loss rate: 1.87%

Run 6: Report of SReAM — Data Link

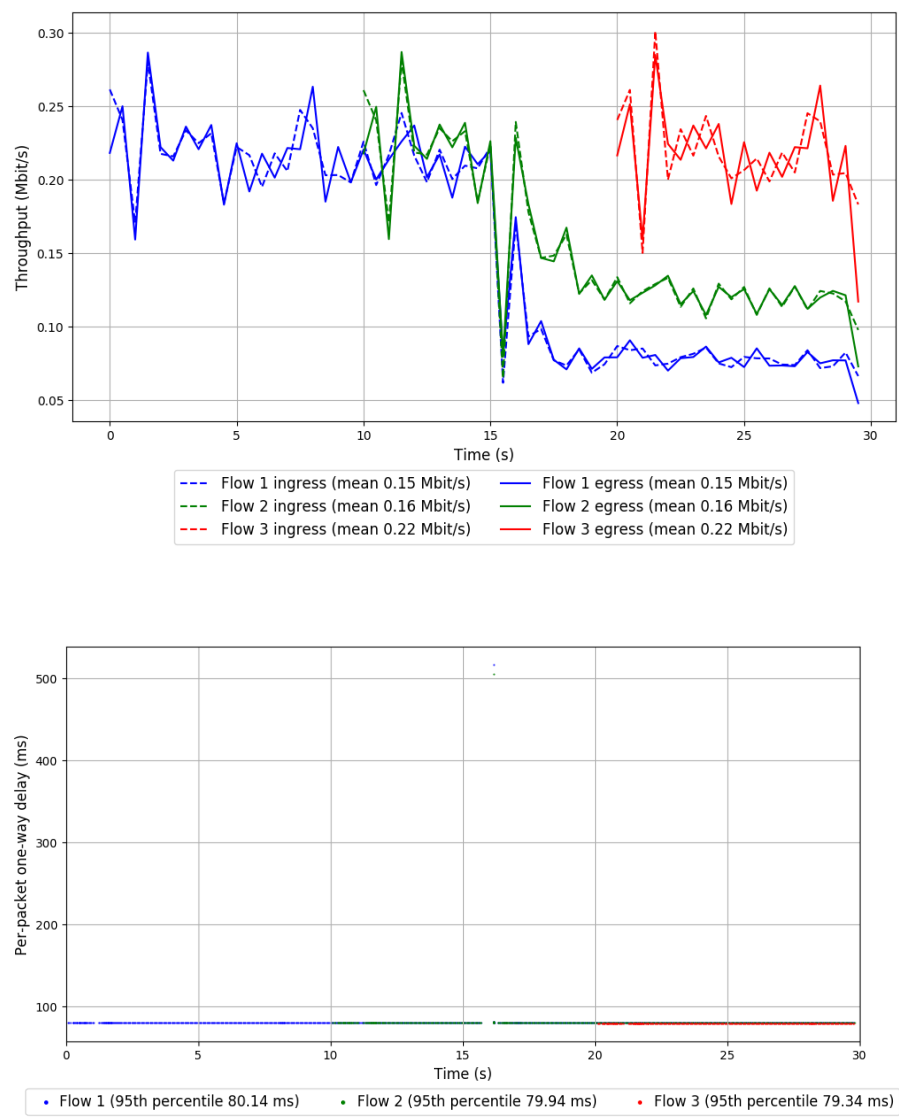


Run 7: Statistics of SReAM

Start at: 2018-04-10 20:50:48
End at: 2018-04-10 20:51:18
Local clock offset: -5.545 ms
Remote clock offset: 7.288 ms

Below is generated by plot.py at 2018-04-11 02:20:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.33 Mbit/s
95th percentile per-packet one-way delay: 80.123 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 80.138 ms
Loss rate: 0.33%
-- Flow 2:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 79.944 ms
Loss rate: 0.66%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 79.345 ms
Loss rate: 1.87%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SReAM

Start at: 2018-04-10 21:14:58

End at: 2018-04-10 21:15:28

Local clock offset: -6.826 ms

Remote clock offset: 2.257 ms

Below is generated by plot.py at 2018-04-11 02:20:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 84.524 ms

Loss rate: 0.91%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 83.731 ms

Loss rate: 0.64%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 84.127 ms

Loss rate: 0.84%

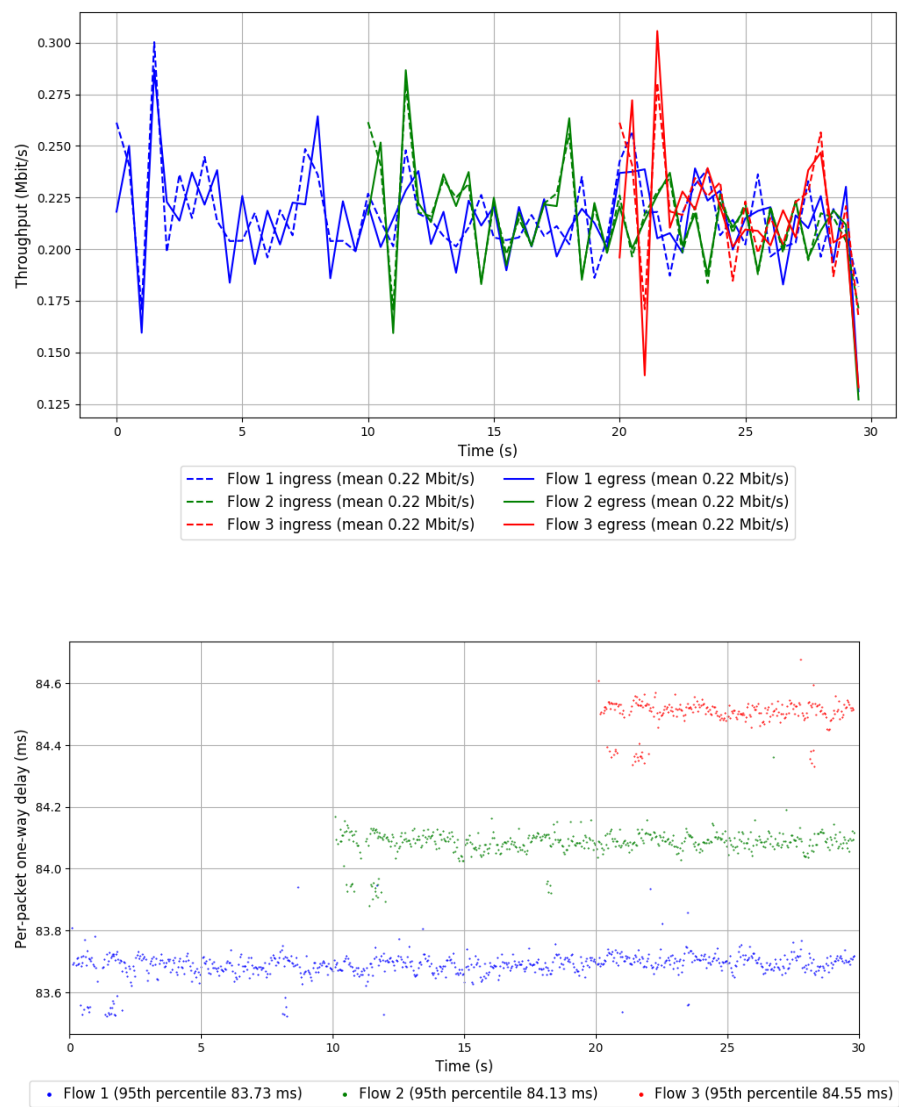
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 84.546 ms

Loss rate: 1.87%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SReAM

Start at: 2018-04-10 21:39:12

End at: 2018-04-10 21:39:42

Local clock offset: -5.976 ms

Remote clock offset: 2.467 ms

Below is generated by plot.py at 2018-04-11 02:20:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 85.214 ms

Loss rate: 0.91%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 84.534 ms

Loss rate: 0.64%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 85.230 ms

Loss rate: 0.84%

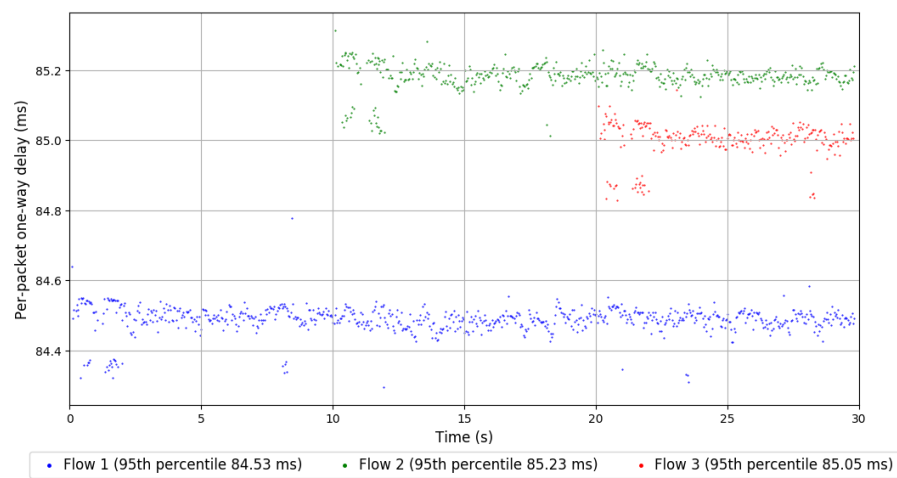
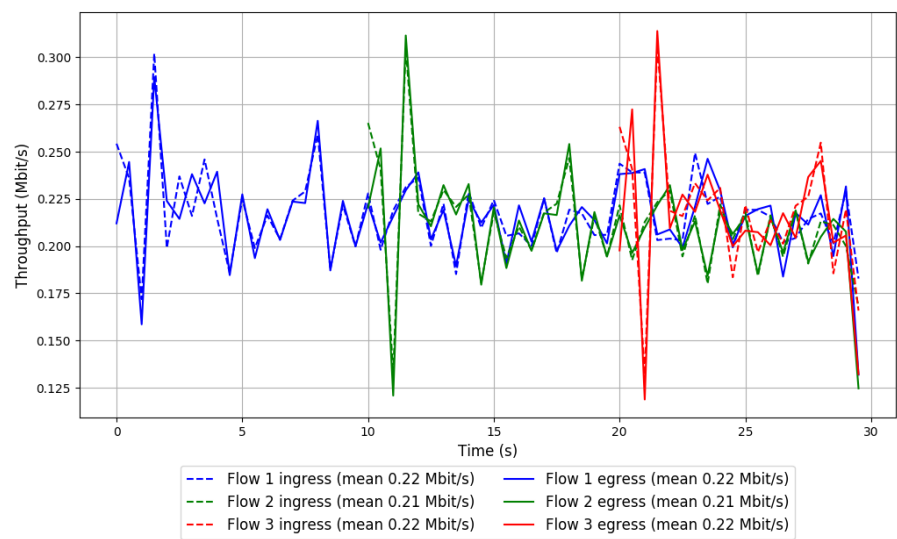
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 85.051 ms

Loss rate: 1.87%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-04-10 22:03:08

End at: 2018-04-10 22:03:38

Local clock offset: -6.344 ms

Remote clock offset: 2.23 ms

Below is generated by plot.py at 2018-04-11 02:20:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 83.764 ms

Loss rate: 0.92%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 83.764 ms

Loss rate: 0.64%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 83.761 ms

Loss rate: 0.84%

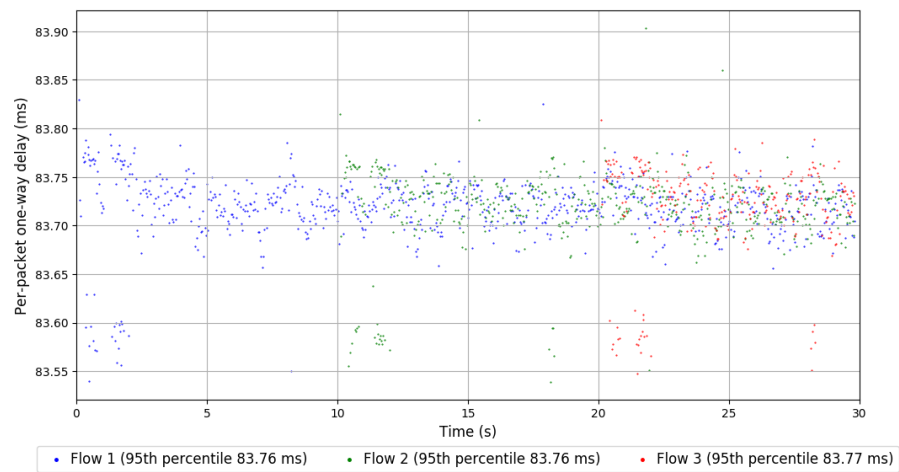
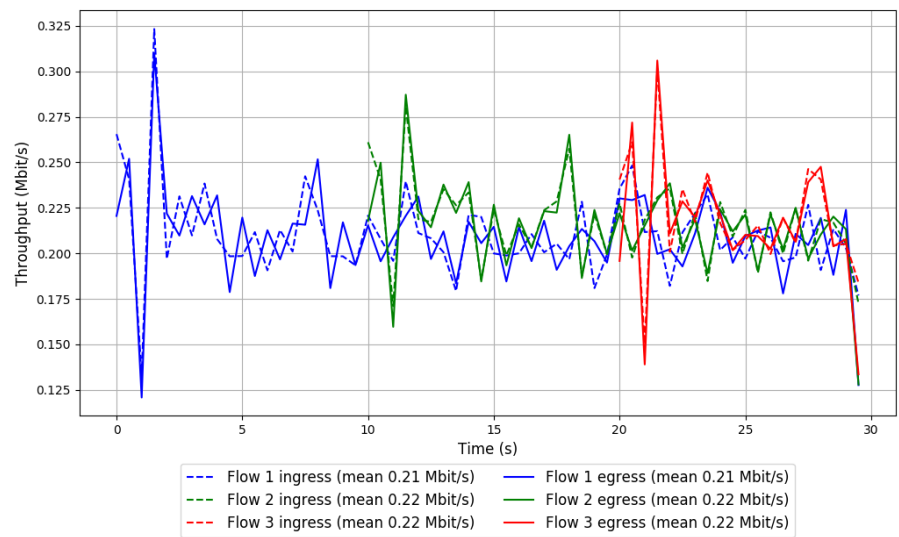
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 83.766 ms

Loss rate: 1.87%

Run 10: Report of SReAM — Data Link



Run 1: Statistics of WebRTC media

Start at: 2018-04-10 18:12:44

End at: 2018-04-10 18:13:14

Local clock offset: -5.412 ms

Remote clock offset: 3.006 ms

Below is generated by plot.py at 2018-04-11 02:20:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.16 Mbit/s

95th percentile per-packet one-way delay: 86.339 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 86.298 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 86.424 ms

Loss rate: 0.00%

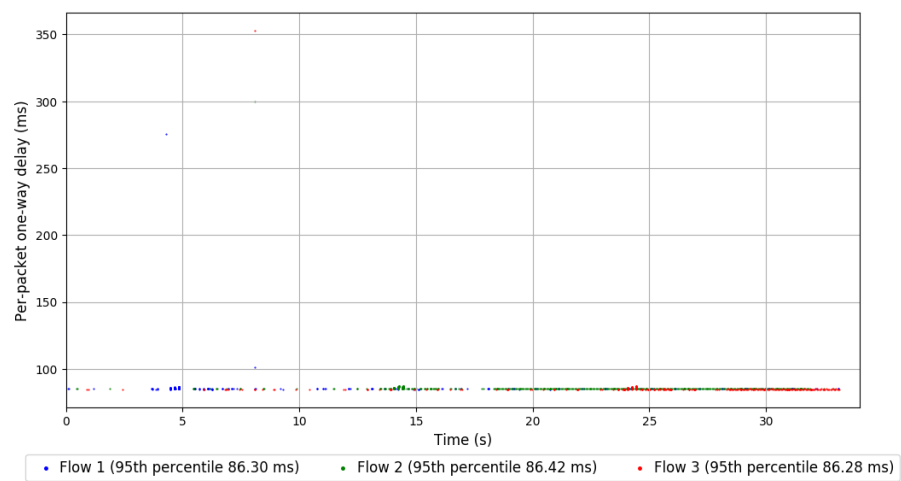
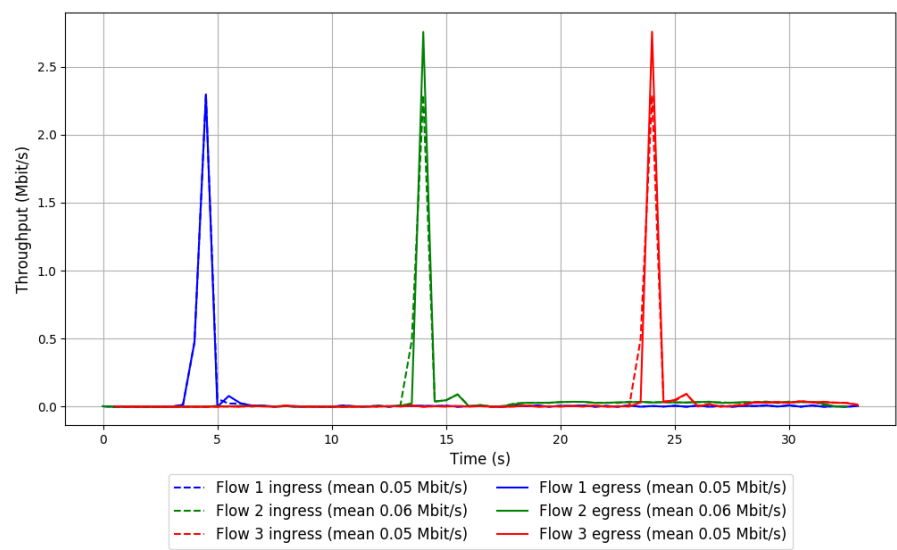
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 86.282 ms

Loss rate: 0.31%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-04-10 18:36:41

End at: 2018-04-10 18:37:11

Local clock offset: -5.559 ms

Remote clock offset: 9.302 ms

Below is generated by plot.py at 2018-04-11 02:20:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.17 Mbit/s

95th percentile per-packet one-way delay: 81.773 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 81.821 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 81.531 ms

Loss rate: 0.00%

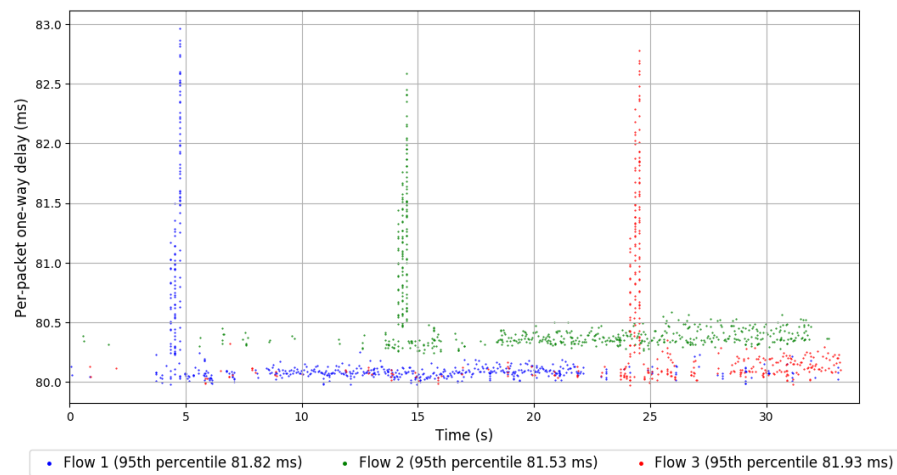
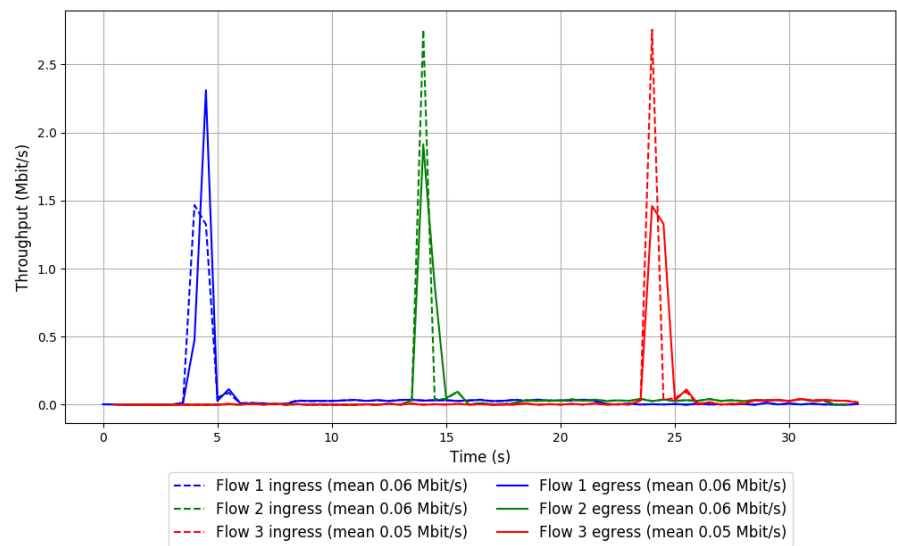
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 81.929 ms

Loss rate: 0.31%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-04-10 19:00:49

End at: 2018-04-10 19:01:19

Local clock offset: -4.688 ms

Remote clock offset: 8.117 ms

Below is generated by plot.py at 2018-04-11 02:20:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.17 Mbit/s

95th percentile per-packet one-way delay: 81.635 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 81.081 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 81.284 ms

Loss rate: 0.00%

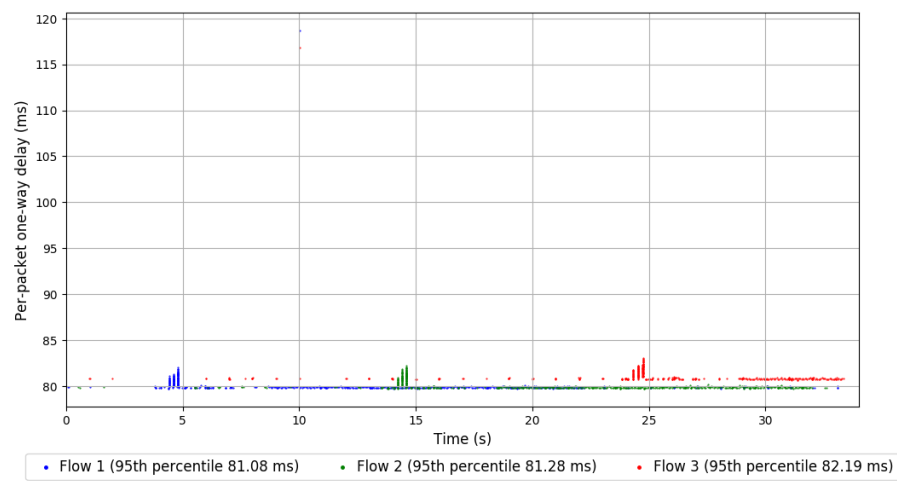
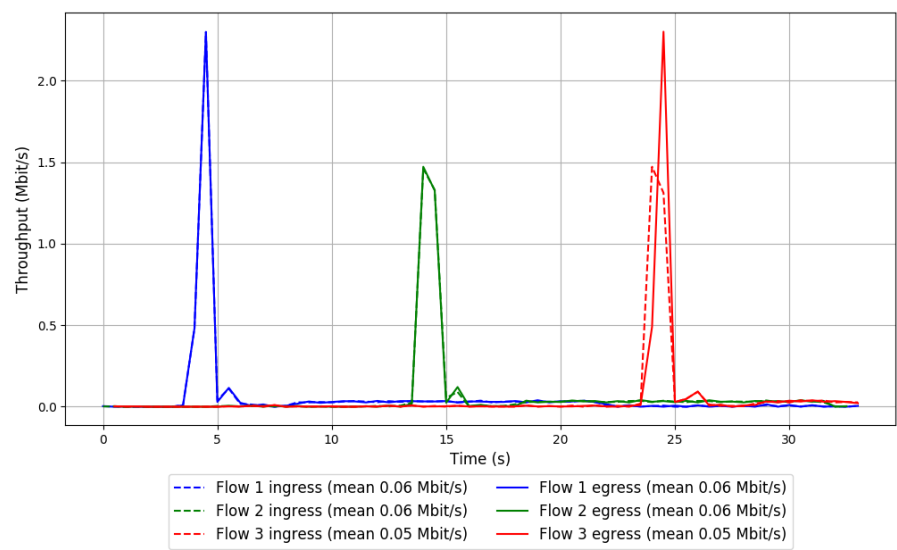
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 82.193 ms

Loss rate: 0.31%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-04-10 19:25:01

End at: 2018-04-10 19:25:31

Local clock offset: -6.444 ms

Remote clock offset: 7.108 ms

Below is generated by plot.py at 2018-04-11 02:20:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 80.366 ms

Loss rate: 0.18%

-- Flow 1:

Average throughput: 0.07 Mbit/s

95th percentile per-packet one-way delay: 80.543 ms

Loss rate: 0.23%

-- Flow 2:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 80.127 ms

Loss rate: 0.00%

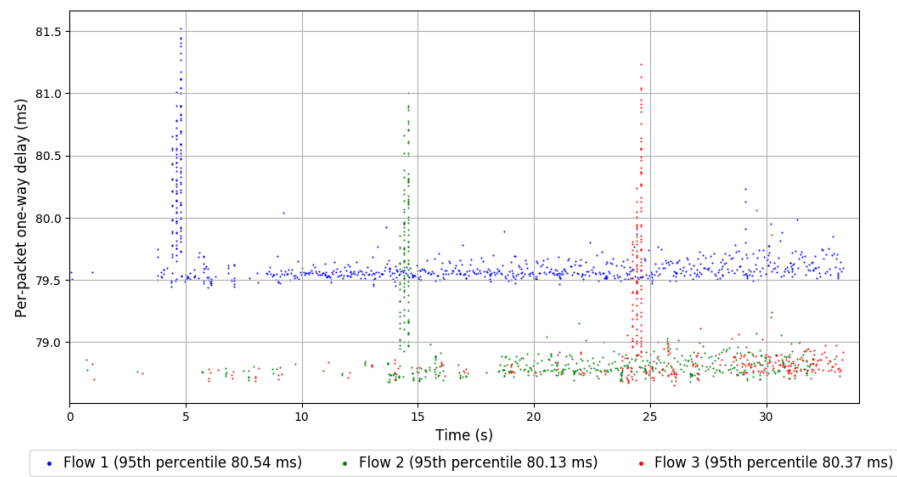
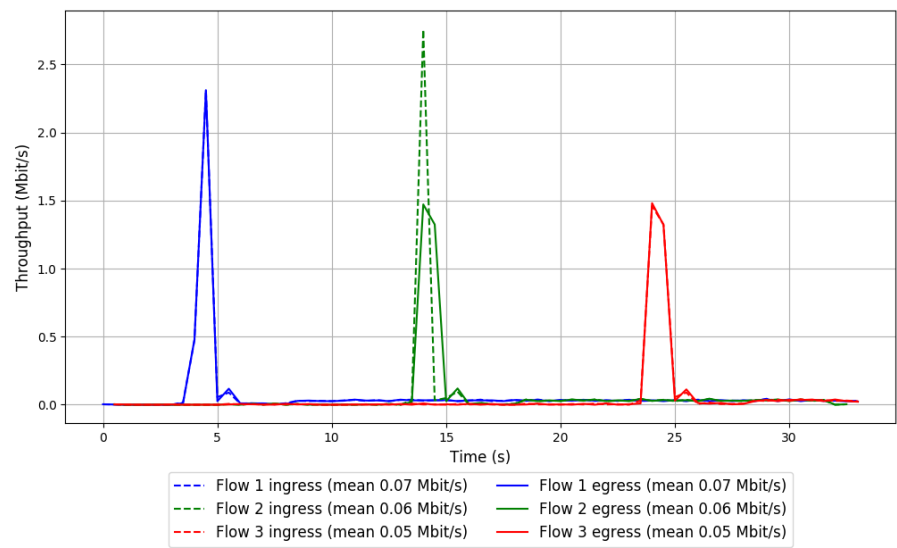
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 80.366 ms

Loss rate: 0.31%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-04-10 19:49:00

End at: 2018-04-10 19:49:30

Local clock offset: -5.124 ms

Remote clock offset: 3.035 ms

Below is generated by plot.py at 2018-04-11 02:20:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.17 Mbit/s

95th percentile per-packet one-way delay: 87.028 ms

Loss rate: 0.11%

-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 86.255 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 86.898 ms

Loss rate: 0.00%

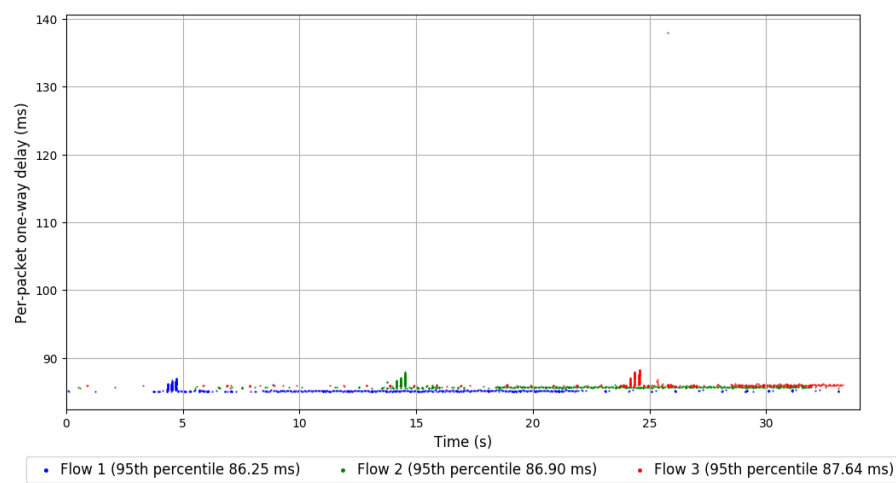
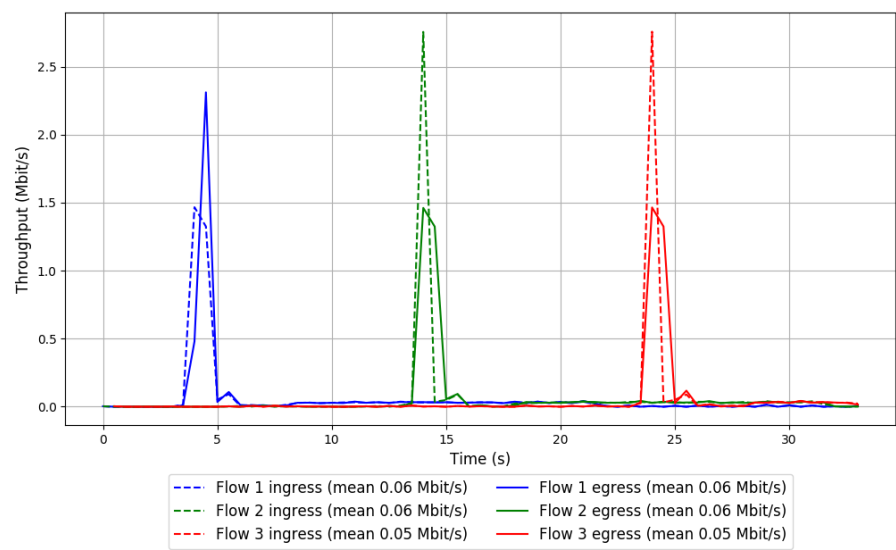
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 87.642 ms

Loss rate: 0.36%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-04-10 20:13:29

End at: 2018-04-10 20:13:59

Local clock offset: -5.845 ms

Remote clock offset: 3.914 ms

Below is generated by plot.py at 2018-04-11 02:20:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.16 Mbit/s

95th percentile per-packet one-way delay: 86.114 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 85.576 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 85.483 ms

Loss rate: 0.00%

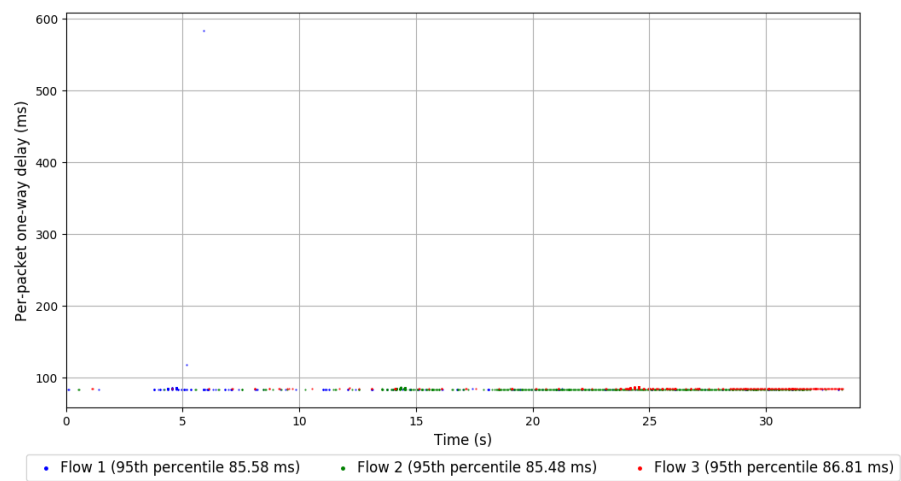
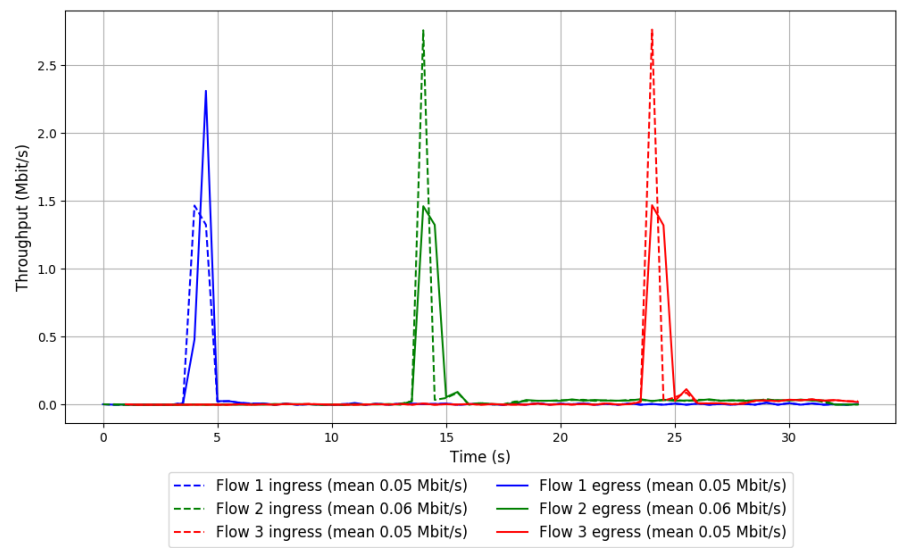
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 86.810 ms

Loss rate: 0.31%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-04-10 20:37:33

End at: 2018-04-10 20:38:03

Local clock offset: -5.675 ms

Remote clock offset: 3.649 ms

Below is generated by plot.py at 2018-04-11 02:20:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.16 Mbit/s

95th percentile per-packet one-way delay: 86.046 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 85.516 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 86.378 ms

Loss rate: 0.00%

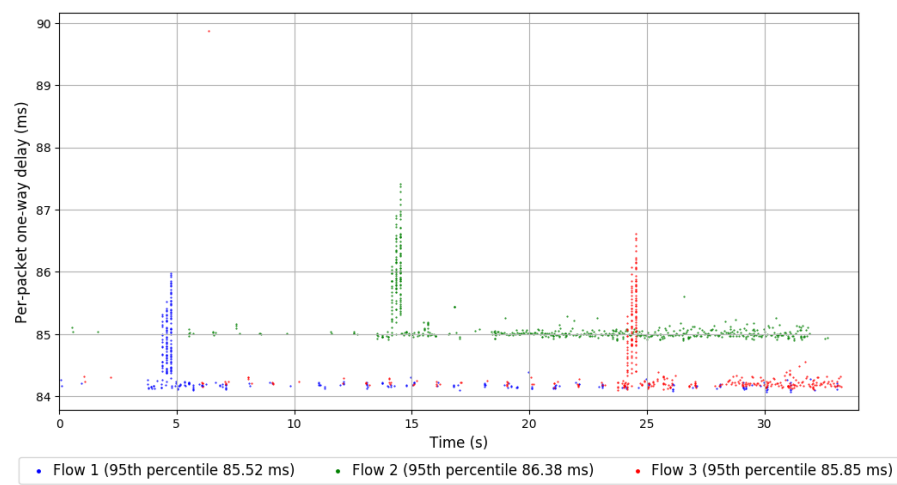
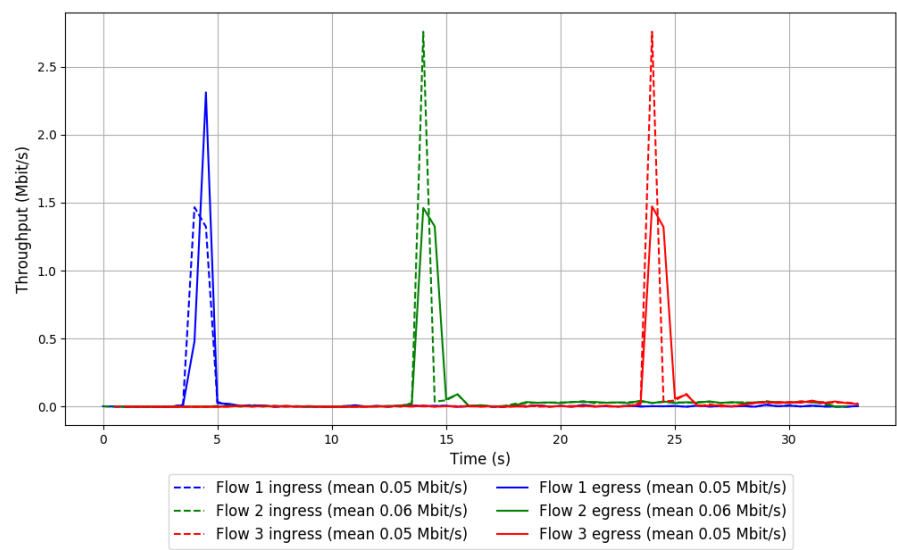
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 85.849 ms

Loss rate: 0.31%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-04-10 21:01:36

End at: 2018-04-10 21:02:06

Local clock offset: -5.502 ms

Remote clock offset: 2.143 ms

Below is generated by plot.py at 2018-04-11 02:20:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.17 Mbit/s

95th percentile per-packet one-way delay: 86.054 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 85.395 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 86.302 ms

Loss rate: 0.00%

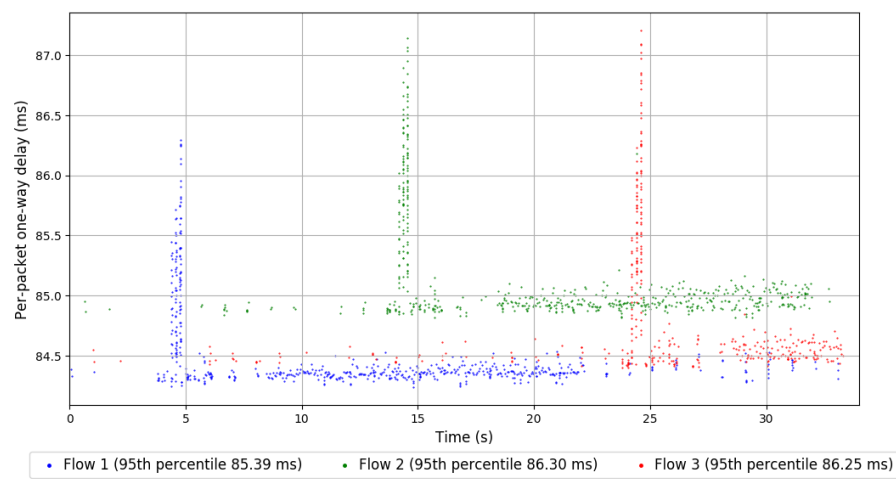
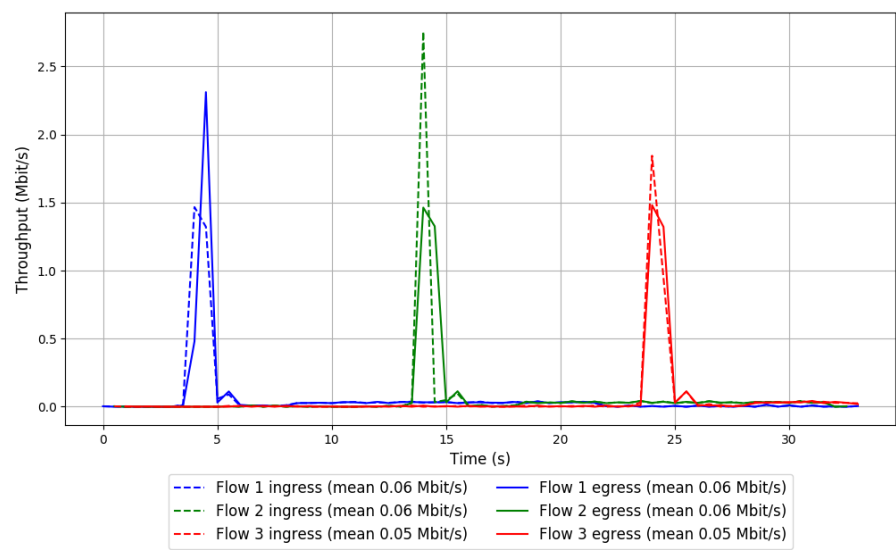
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 86.254 ms

Loss rate: 0.31%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-04-10 21:25:47

End at: 2018-04-10 21:26:17

Local clock offset: -6.152 ms

Remote clock offset: 2.489 ms

Below is generated by plot.py at 2018-04-11 02:20:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.17 Mbit/s

95th percentile per-packet one-way delay: 86.111 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 86.046 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 85.839 ms

Loss rate: 0.00%

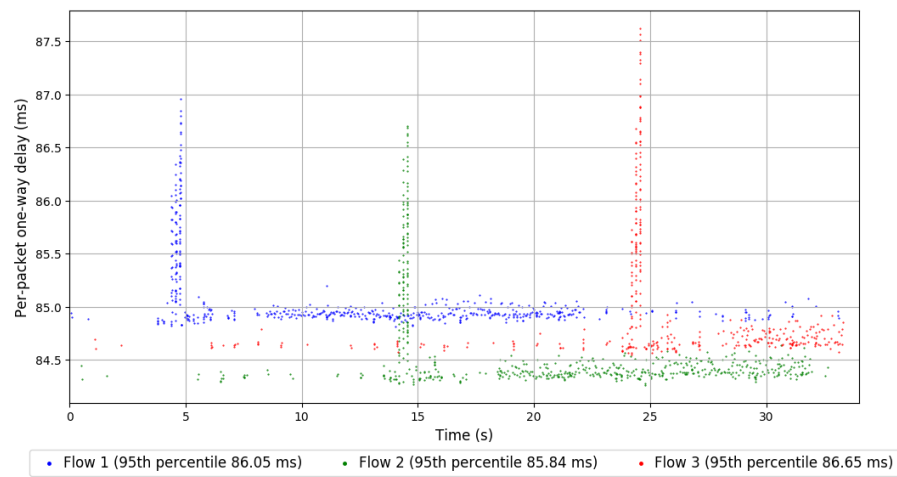
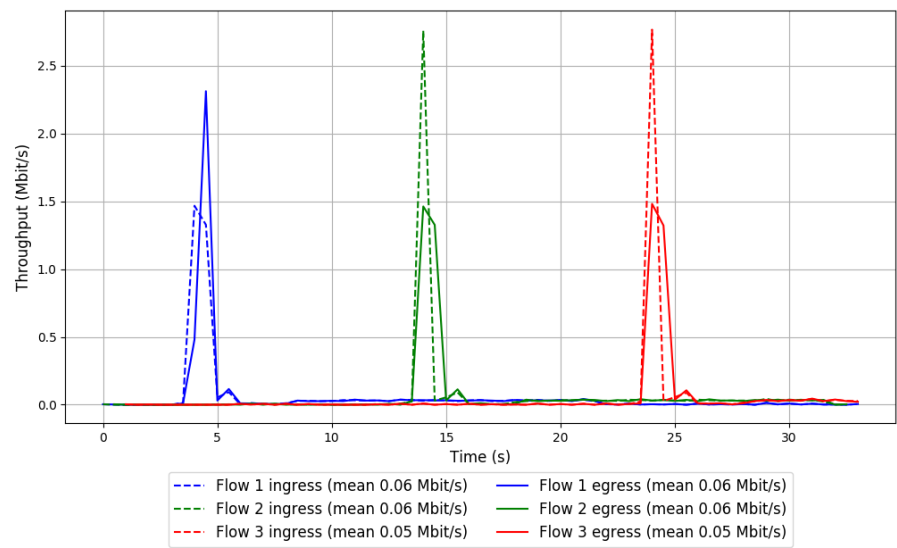
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 86.648 ms

Loss rate: 0.31%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-04-10 21:50:00

End at: 2018-04-10 21:50:31

Local clock offset: -4.925 ms

Remote clock offset: 2.318 ms

Below is generated by plot.py at 2018-04-11 02:20:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.16 Mbit/s

95th percentile per-packet one-way delay: 86.934 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 86.981 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 86.858 ms

Loss rate: 0.00%

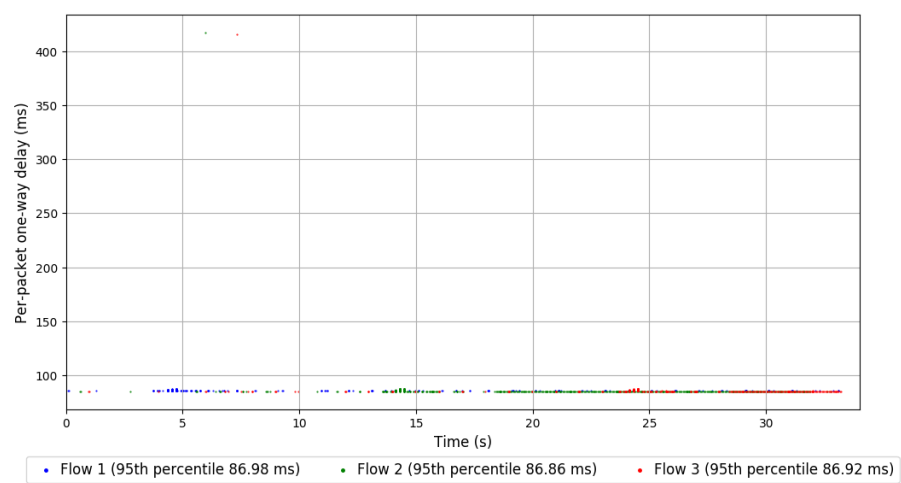
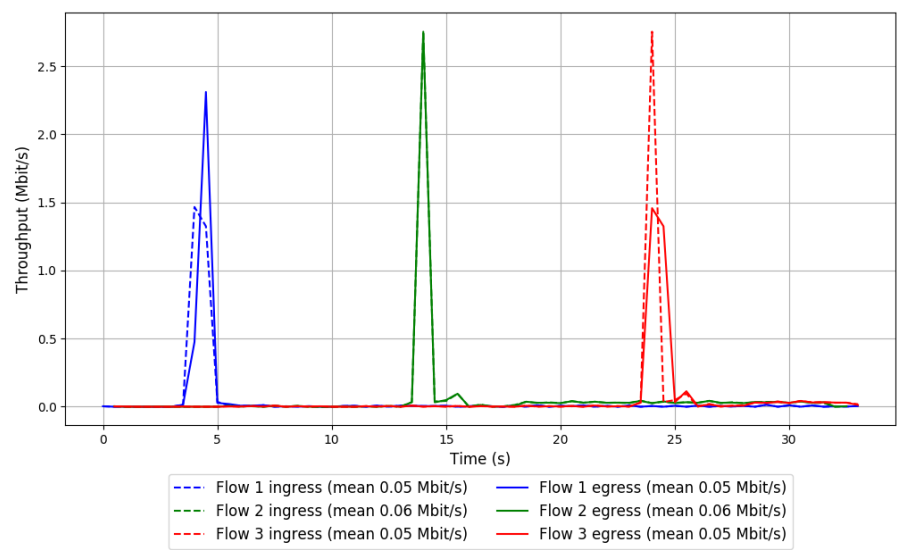
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 86.921 ms

Loss rate: 0.31%

Run 10: Report of WebRTC media — Data Link

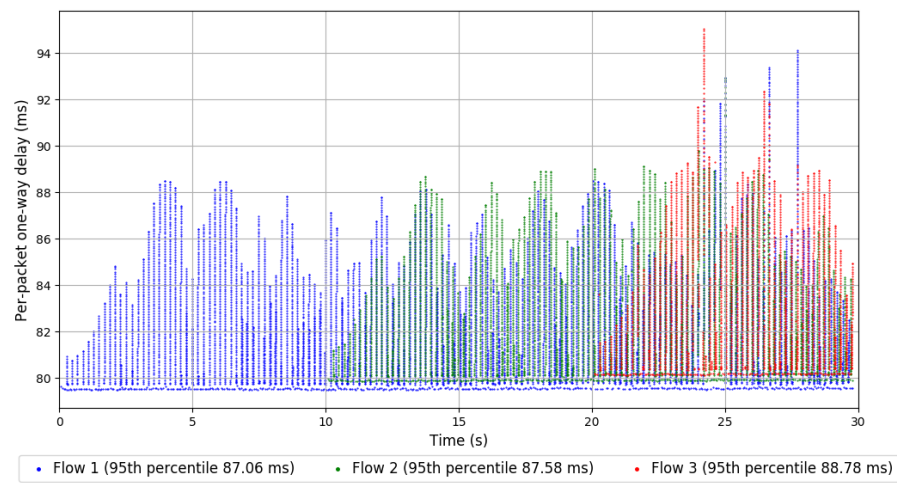
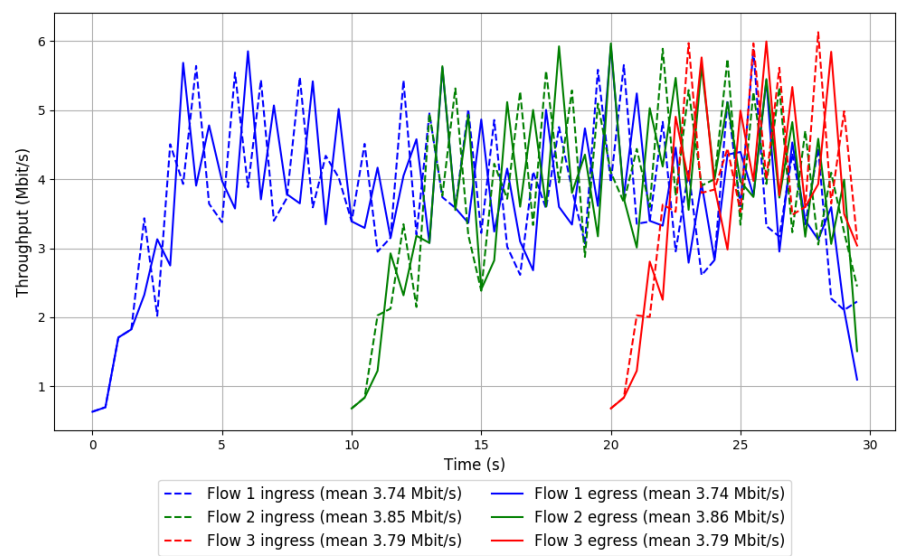


Run 1: Statistics of Sprout

Start at: 2018-04-10 18:23:19
End at: 2018-04-10 18:23:49
Local clock offset: -5.488 ms
Remote clock offset: 8.547 ms

Below is generated by plot.py at 2018-04-11 02:20:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 7.53 Mbit/s
95th percentile per-packet one-way delay: 87.679 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 3.74 Mbit/s
95th percentile per-packet one-way delay: 87.061 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 3.86 Mbit/s
95th percentile per-packet one-way delay: 87.582 ms
Loss rate: 0.79%
-- Flow 3:
Average throughput: 3.79 Mbit/s
95th percentile per-packet one-way delay: 88.776 ms
Loss rate: 2.11%

Run 1: Report of Sprout — Data Link

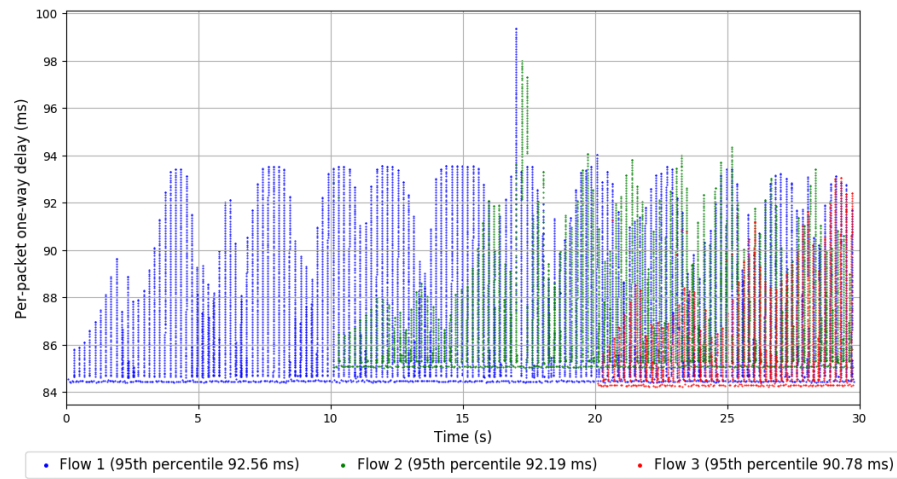
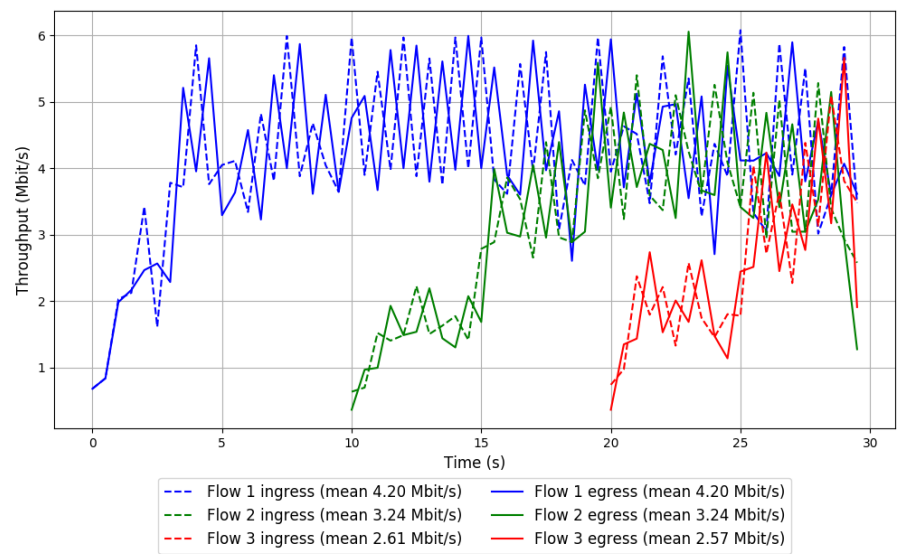


Run 2: Statistics of Sprout

Start at: 2018-04-10 18:47:29
End at: 2018-04-10 18:47:59
Local clock offset: -5.607 ms
Remote clock offset: 4.86 ms

```
# Below is generated by plot.py at 2018-04-11 02:20:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 7.18 Mbit/s
95th percentile per-packet one-way delay: 92.356 ms
Loss rate: 1.06%
-- Flow 1:
Average throughput: 4.20 Mbit/s
95th percentile per-packet one-way delay: 92.560 ms
Loss rate: 0.65%
-- Flow 2:
Average throughput: 3.24 Mbit/s
95th percentile per-packet one-way delay: 92.195 ms
Loss rate: 1.01%
-- Flow 3:
Average throughput: 2.57 Mbit/s
95th percentile per-packet one-way delay: 90.785 ms
Loss rate: 3.21%
```

Run 2: Report of Sprout — Data Link

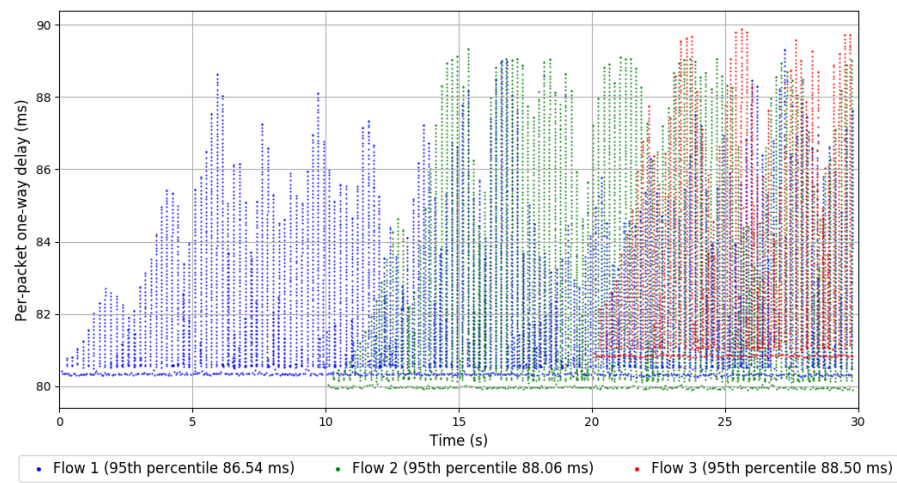
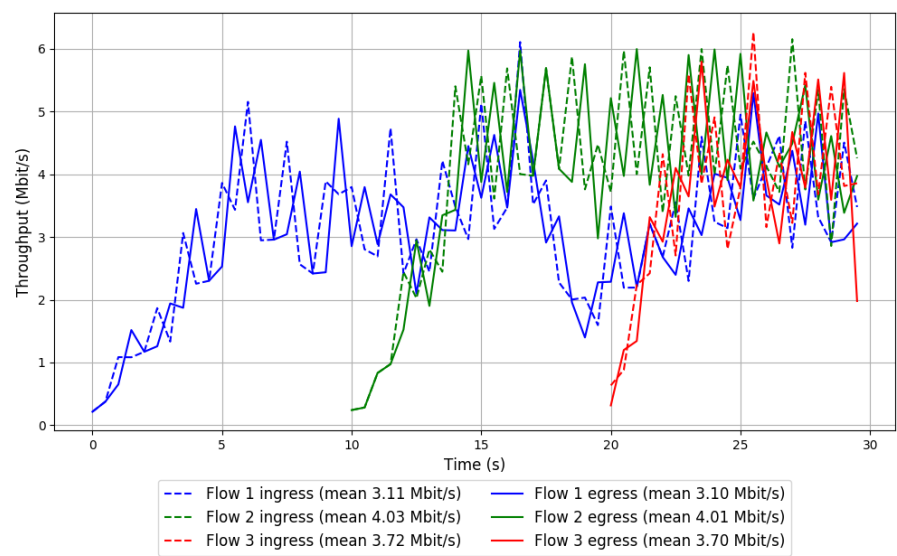


Run 3: Statistics of Sprout

Start at: 2018-04-10 19:11:39
End at: 2018-04-10 19:12:09
Local clock offset: -4.64 ms
Remote clock offset: 7.495 ms

```
# Below is generated by plot.py at 2018-04-11 02:20:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 6.96 Mbit/s
95th percentile per-packet one-way delay: 87.728 ms
Loss rate: 1.42%
-- Flow 1:
Average throughput: 3.10 Mbit/s
95th percentile per-packet one-way delay: 86.536 ms
Loss rate: 0.97%
-- Flow 2:
Average throughput: 4.01 Mbit/s
95th percentile per-packet one-way delay: 88.060 ms
Loss rate: 1.41%
-- Flow 3:
Average throughput: 3.70 Mbit/s
95th percentile per-packet one-way delay: 88.495 ms
Loss rate: 2.56%
```


Run 3: Report of Sprout — Data Link

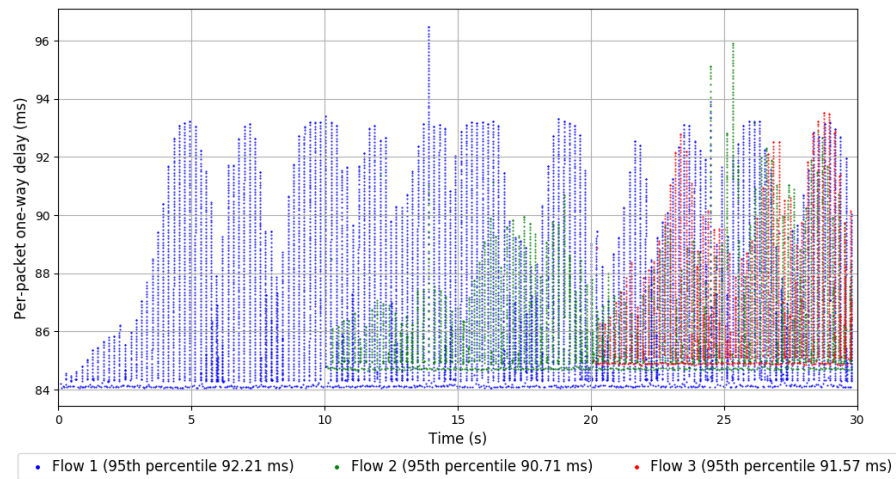
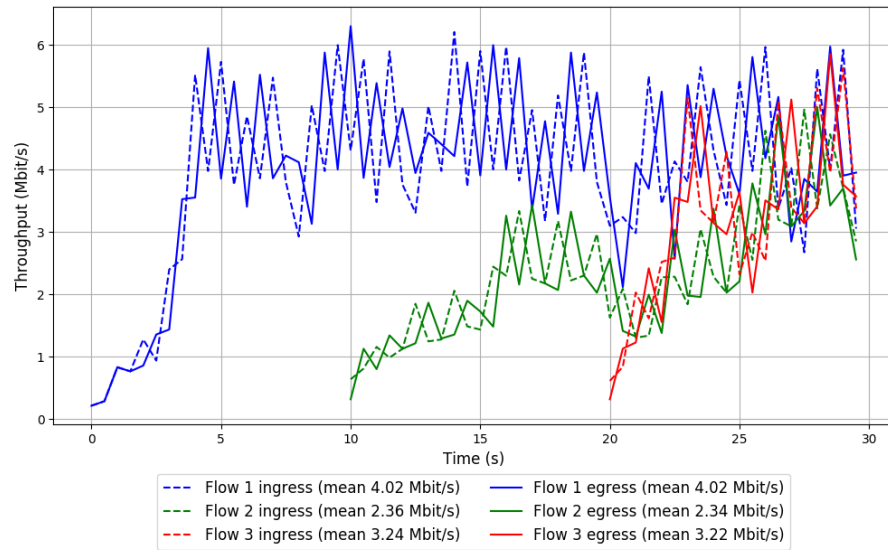


Run 4: Statistics of Sprout

Start at: 2018-04-10 19:35:31
End at: 2018-04-10 19:36:01
Local clock offset: -5.775 ms
Remote clock offset: 2.79 ms

```
# Below is generated by plot.py at 2018-04-11 02:20:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 6.62 Mbit/s
95th percentile per-packet one-way delay: 91.933 ms
Loss rate: 1.07%
-- Flow 1:
Average throughput: 4.02 Mbit/s
95th percentile per-packet one-way delay: 92.210 ms
Loss rate: 0.47%
-- Flow 2:
Average throughput: 2.34 Mbit/s
95th percentile per-packet one-way delay: 90.712 ms
Loss rate: 1.54%
-- Flow 3:
Average throughput: 3.22 Mbit/s
95th percentile per-packet one-way delay: 91.574 ms
Loss rate: 2.63%
```

Run 4: Report of Sprout — Data Link

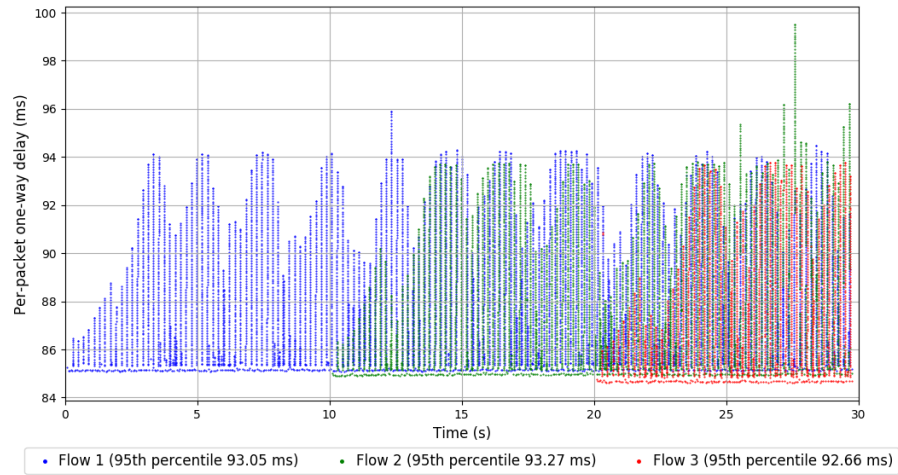
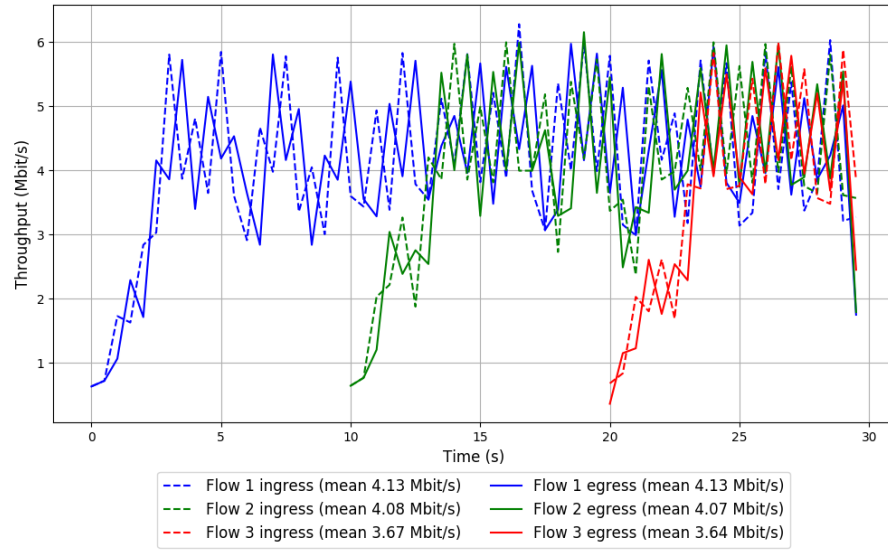


Run 5: Statistics of Sprout

Start at: 2018-04-10 20:00:00
End at: 2018-04-10 20:00:30
Local clock offset: -5.815 ms
Remote clock offset: 3.241 ms

Below is generated by plot.py at 2018-04-11 02:20:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 8.01 Mbit/s
95th percentile per-packet one-way delay: 93.086 ms
Loss rate: 1.08%
-- Flow 1:
Average throughput: 4.13 Mbit/s
95th percentile per-packet one-way delay: 93.052 ms
Loss rate: 0.62%
-- Flow 2:
Average throughput: 4.07 Mbit/s
95th percentile per-packet one-way delay: 93.266 ms
Loss rate: 1.10%
-- Flow 3:
Average throughput: 3.64 Mbit/s
95th percentile per-packet one-way delay: 92.659 ms
Loss rate: 2.60%

Run 5: Report of Sprout — Data Link

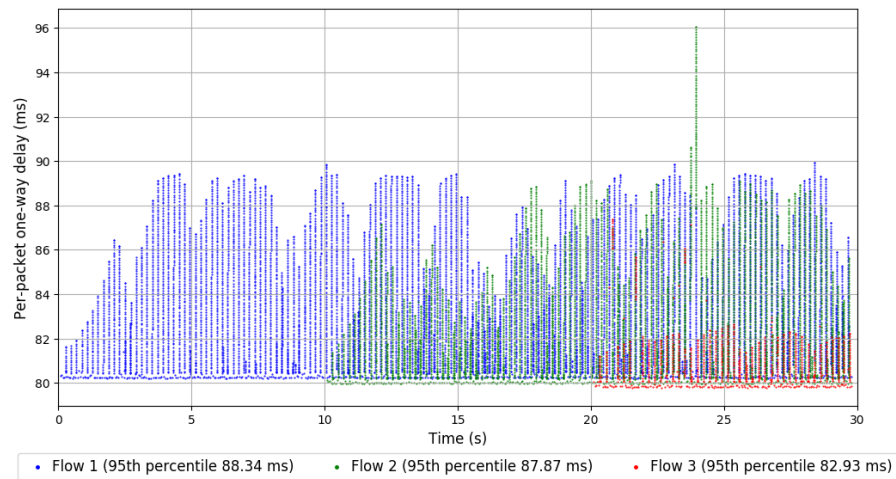
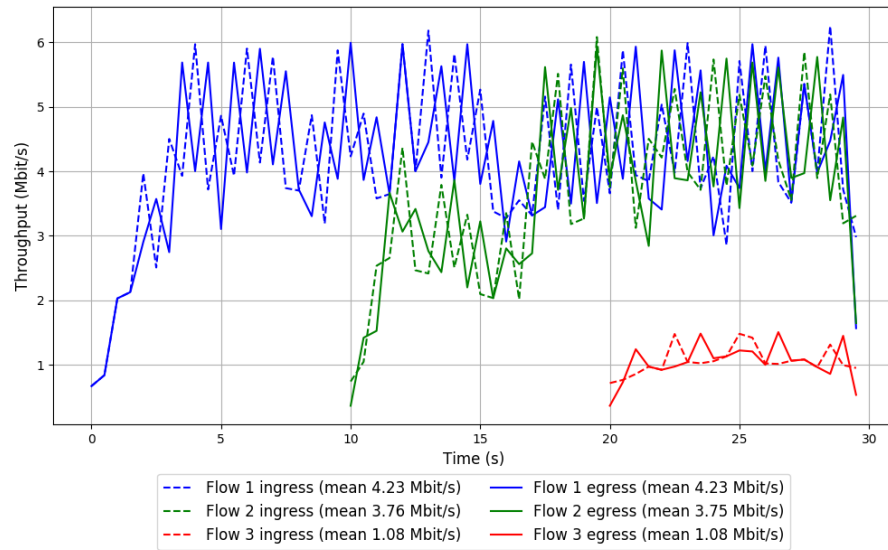


Run 6: Statistics of Sprout

Start at: 2018-04-10 20:24:05
End at: 2018-04-10 20:24:35
Local clock offset: -5.134 ms
Remote clock offset: 9.003 ms

```
# Below is generated by plot.py at 2018-04-11 02:20:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 7.07 Mbit/s
95th percentile per-packet one-way delay: 88.137 ms
Loss rate: 0.83%
-- Flow 1:
Average throughput: 4.23 Mbit/s
95th percentile per-packet one-way delay: 88.345 ms
Loss rate: 0.56%
-- Flow 2:
Average throughput: 3.75 Mbit/s
95th percentile per-packet one-way delay: 87.873 ms
Loss rate: 1.12%
-- Flow 3:
Average throughput: 1.08 Mbit/s
95th percentile per-packet one-way delay: 82.934 ms
Loss rate: 1.97%
```

Run 6: Report of Sprout — Data Link

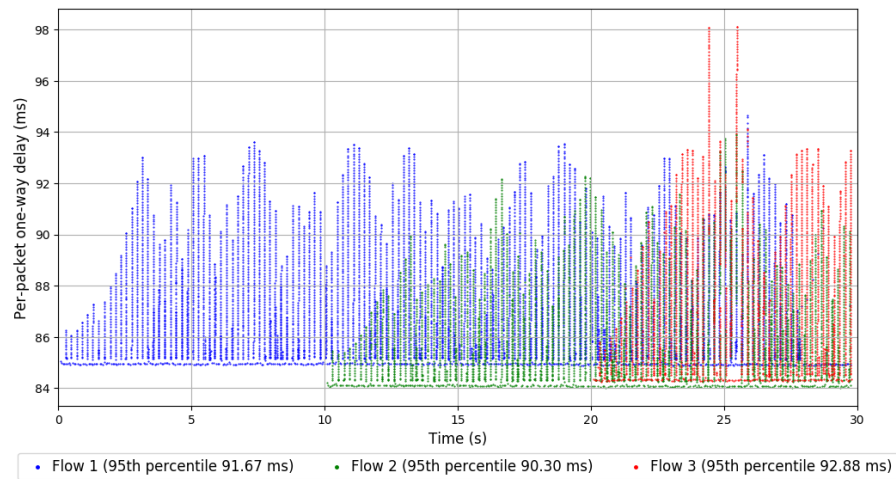
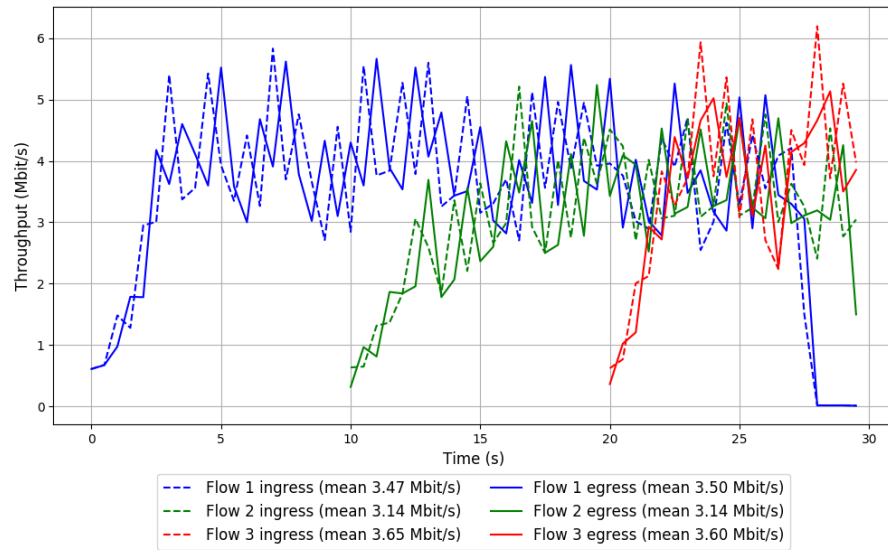


Run 7: Statistics of Sprout

Start at: 2018-04-10 20:48:12
End at: 2018-04-10 20:48:42
Local clock offset: -5.458 ms
Remote clock offset: 2.603 ms

Below is generated by plot.py at 2018-04-11 02:20:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 6.74 Mbit/s
95th percentile per-packet one-way delay: 91.683 ms
Loss rate: 0.88%
-- Flow 1:
Average throughput: 3.50 Mbit/s
95th percentile per-packet one-way delay: 91.667 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 3.14 Mbit/s
95th percentile per-packet one-way delay: 90.304 ms
Loss rate: 1.24%
-- Flow 3:
Average throughput: 3.60 Mbit/s
95th percentile per-packet one-way delay: 92.882 ms
Loss rate: 2.79%

Run 7: Report of Sprout — Data Link

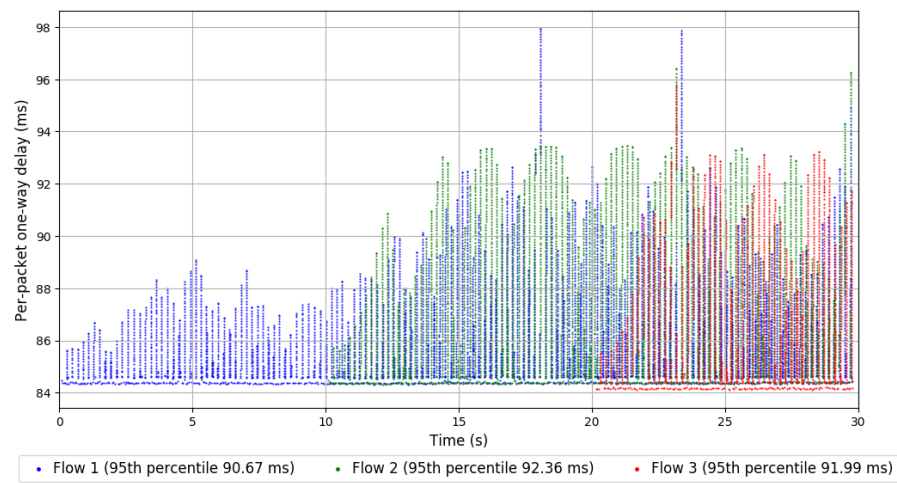
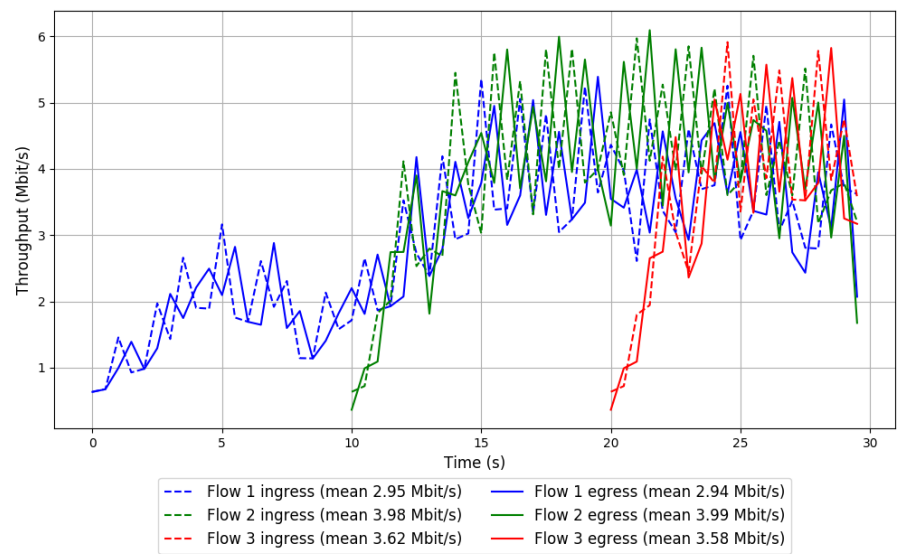


Run 8: Statistics of Sprout

Start at: 2018-04-10 21:12:23
End at: 2018-04-10 21:12:53
Local clock offset: -6.678 ms
Remote clock offset: 2.245 ms

Below is generated by plot.py at 2018-04-11 02:20:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 6.75 Mbit/s
95th percentile per-packet one-way delay: 91.837 ms
Loss rate: 1.29%
-- Flow 1:
Average throughput: 2.94 Mbit/s
95th percentile per-packet one-way delay: 90.667 ms
Loss rate: 1.01%
-- Flow 2:
Average throughput: 3.99 Mbit/s
95th percentile per-packet one-way delay: 92.358 ms
Loss rate: 0.97%
-- Flow 3:
Average throughput: 3.58 Mbit/s
95th percentile per-packet one-way delay: 91.987 ms
Loss rate: 2.67%

Run 8: Report of Sprout — Data Link

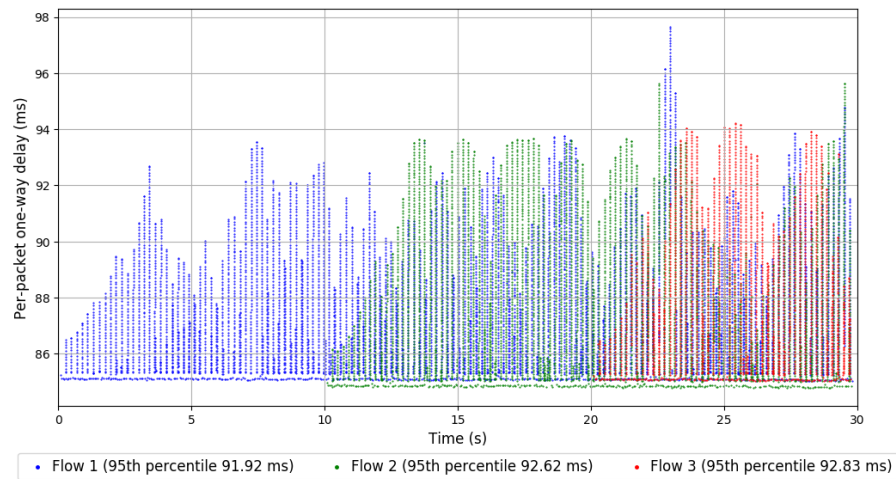
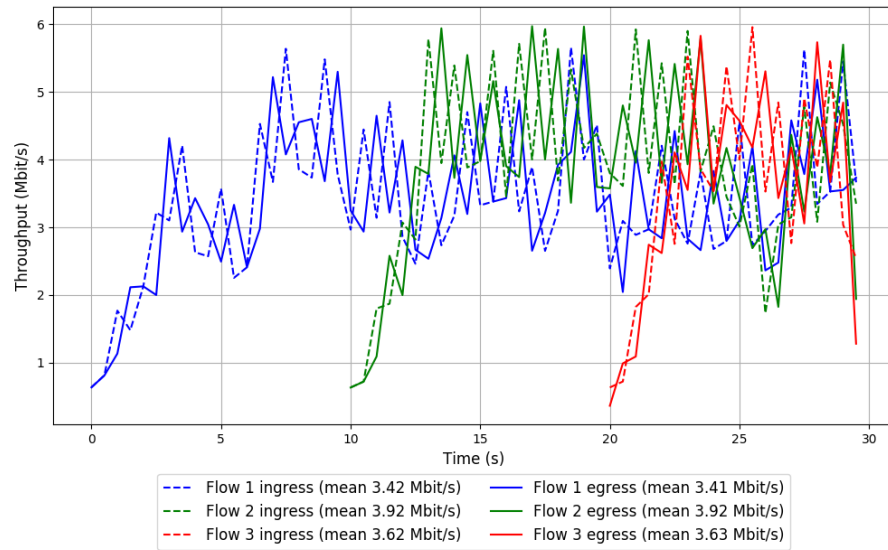


Run 9: Statistics of Sprout

Start at: 2018-04-10 21:36:23
End at: 2018-04-10 21:36:53
Local clock offset: -6.113 ms
Remote clock offset: 2.437 ms

Below is generated by plot.py at 2018-04-11 02:20:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 7.19 Mbit/s
95th percentile per-packet one-way delay: 92.404 ms
Loss rate: 1.08%
-- Flow 1:
Average throughput: 3.41 Mbit/s
95th percentile per-packet one-way delay: 91.917 ms
Loss rate: 0.90%
-- Flow 2:
Average throughput: 3.92 Mbit/s
95th percentile per-packet one-way delay: 92.616 ms
Loss rate: 1.01%
-- Flow 3:
Average throughput: 3.63 Mbit/s
95th percentile per-packet one-way delay: 92.830 ms
Loss rate: 1.78%

Run 9: Report of Sprout — Data Link

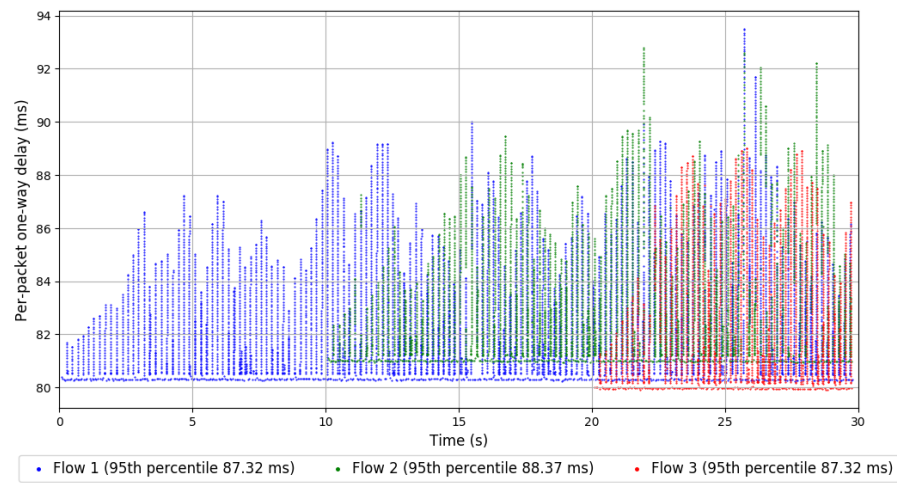
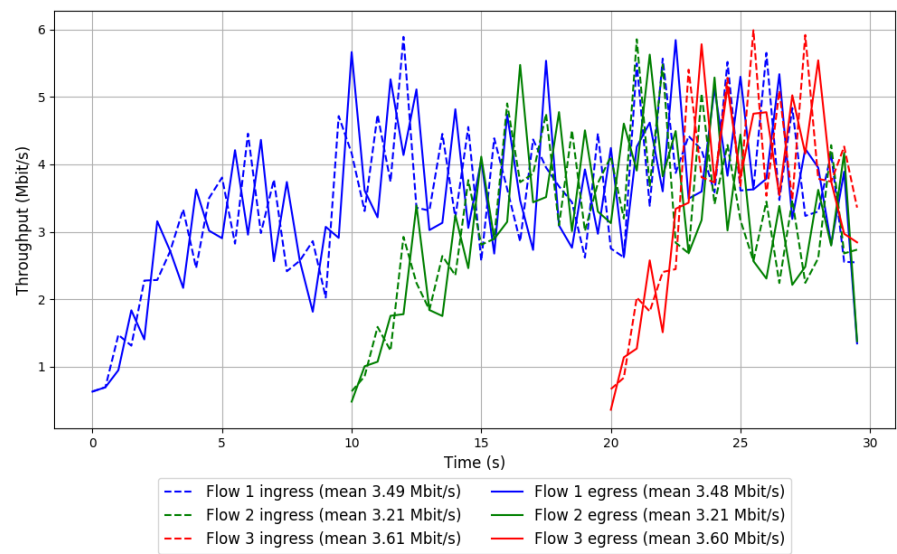


Run 10: Statistics of Sprout

Start at: 2018-04-10 22:00:33
End at: 2018-04-10 22:01:03
Local clock offset: -4.824 ms
Remote clock offset: 7.148 ms

Below is generated by plot.py at 2018-04-11 02:20:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 6.78 Mbit/s
95th percentile per-packet one-way delay: 87.661 ms
Loss rate: 1.08%
-- Flow 1:
Average throughput: 3.48 Mbit/s
95th percentile per-packet one-way delay: 87.317 ms
Loss rate: 0.58%
-- Flow 2:
Average throughput: 3.21 Mbit/s
95th percentile per-packet one-way delay: 88.373 ms
Loss rate: 1.07%
-- Flow 3:
Average throughput: 3.60 Mbit/s
95th percentile per-packet one-way delay: 87.323 ms
Loss rate: 2.54%

Run 10: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

Start at: 2018-04-10 18:13:59

End at: 2018-04-10 18:14:29

Local clock offset: -6.178 ms

Remote clock offset: 7.841 ms

Below is generated by plot.py at 2018-04-11 02:22:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 77.42 Mbit/s

95th percentile per-packet one-way delay: 107.723 ms

Loss rate: 7.80%

-- Flow 1:

Average throughput: 44.95 Mbit/s

95th percentile per-packet one-way delay: 107.018 ms

Loss rate: 8.20%

-- Flow 2:

Average throughput: 34.50 Mbit/s

95th percentile per-packet one-way delay: 107.605 ms

Loss rate: 9.39%

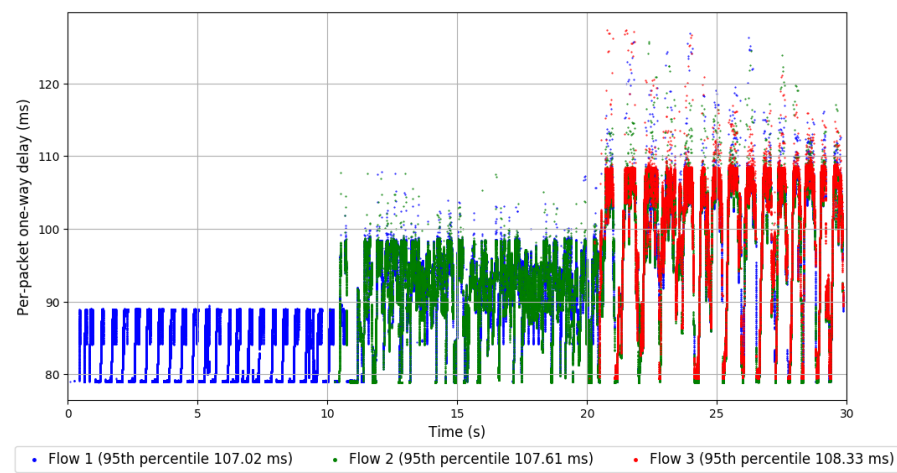
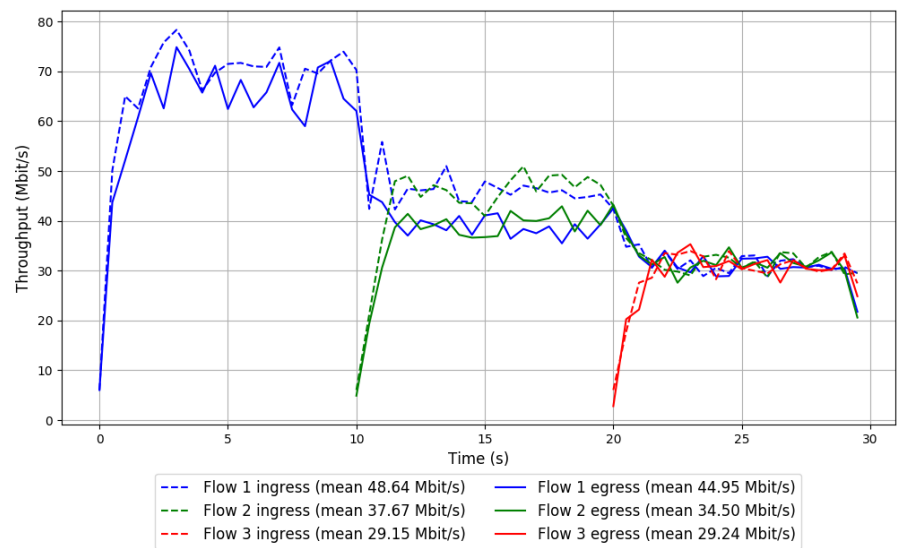
-- Flow 3:

Average throughput: 29.24 Mbit/s

95th percentile per-packet one-way delay: 108.327 ms

Loss rate: 1.69%

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



Run 2: Statistics of TaoVA-100x

Start at: 2018-04-10 18:37:56

End at: 2018-04-10 18:38:26

Local clock offset: -5.527 ms

Remote clock offset: 4.541 ms

Below is generated by plot.py at 2018-04-11 02:22:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 70.04 Mbit/s

95th percentile per-packet one-way delay: 107.608 ms

Loss rate: 13.38%

-- Flow 1:

Average throughput: 45.01 Mbit/s

95th percentile per-packet one-way delay: 104.645 ms

Loss rate: 11.81%

-- Flow 2:

Average throughput: 33.69 Mbit/s

95th percentile per-packet one-way delay: 108.091 ms

Loss rate: 17.42%

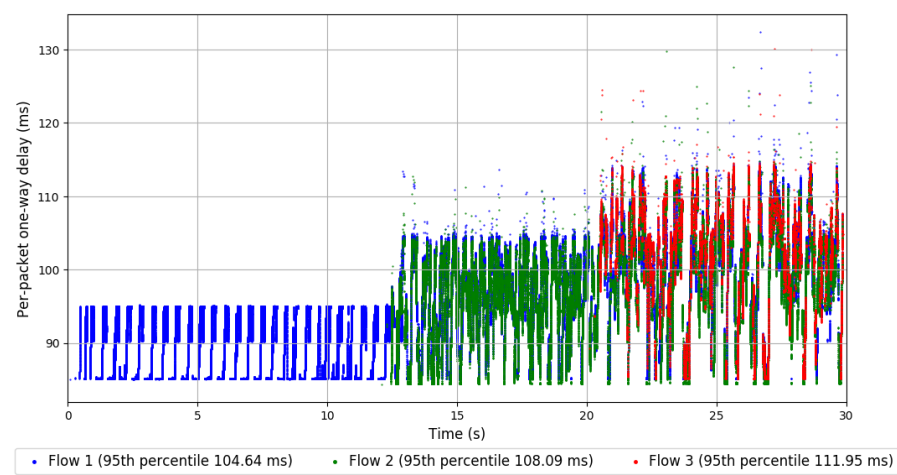
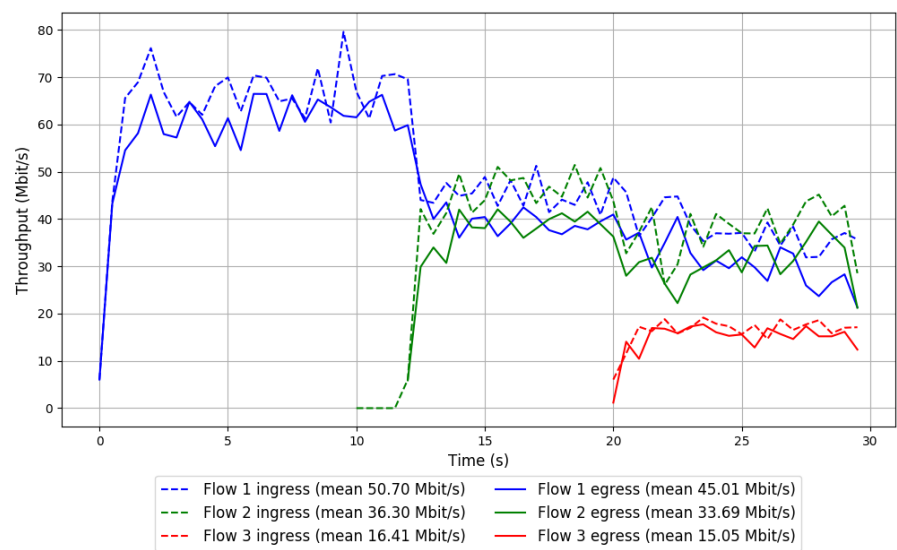
-- Flow 3:

Average throughput: 15.05 Mbit/s

95th percentile per-packet one-way delay: 111.954 ms

Loss rate: 10.10%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-04-10 19:02:04

End at: 2018-04-10 19:02:34

Local clock offset: -5.476 ms

Remote clock offset: 3.294 ms

Below is generated by plot.py at 2018-04-11 02:22:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 83.37 Mbit/s

95th percentile per-packet one-way delay: 112.472 ms

Loss rate: 0.81%

-- Flow 1:

Average throughput: 49.29 Mbit/s

95th percentile per-packet one-way delay: 111.212 ms

Loss rate: 0.49%

-- Flow 2:

Average throughput: 37.95 Mbit/s

95th percentile per-packet one-way delay: 112.341 ms

Loss rate: 0.81%

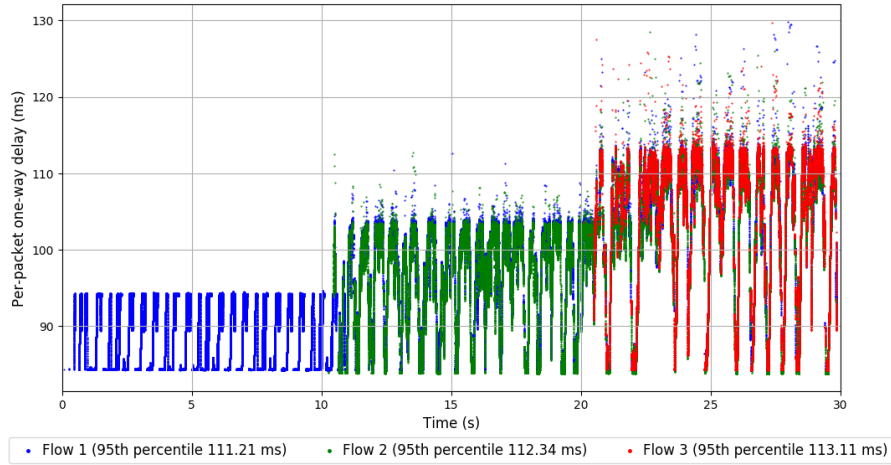
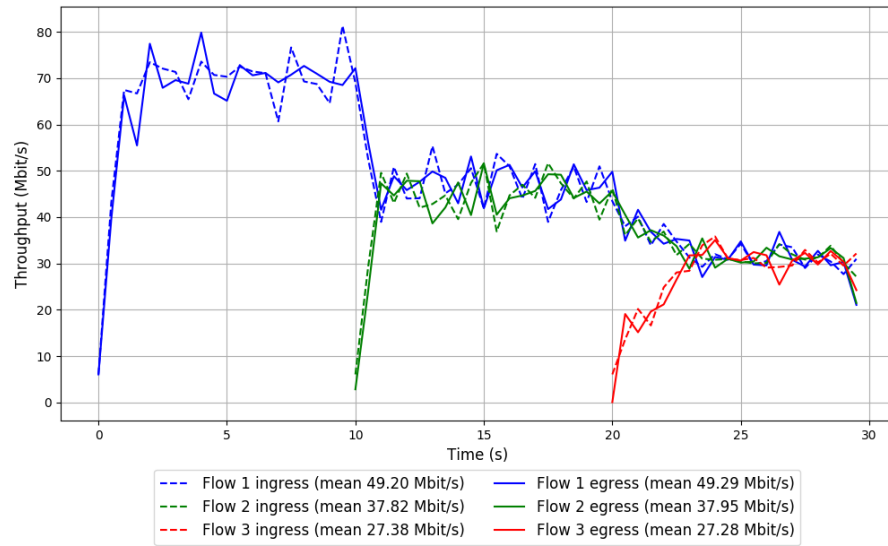
-- Flow 3:

Average throughput: 27.28 Mbit/s

95th percentile per-packet one-way delay: 113.110 ms

Loss rate: 2.51%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-04-10 19:26:15

End at: 2018-04-10 19:26:45

Local clock offset: -5.615 ms

Remote clock offset: 7.217 ms

Below is generated by plot.py at 2018-04-11 02:22:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 83.16 Mbit/s

95th percentile per-packet one-way delay: 108.258 ms

Loss rate: 0.81%

-- Flow 1:

Average throughput: 49.07 Mbit/s

95th percentile per-packet one-way delay: 106.971 ms

Loss rate: 0.53%

-- Flow 2:

Average throughput: 37.08 Mbit/s

95th percentile per-packet one-way delay: 108.614 ms

Loss rate: 0.67%

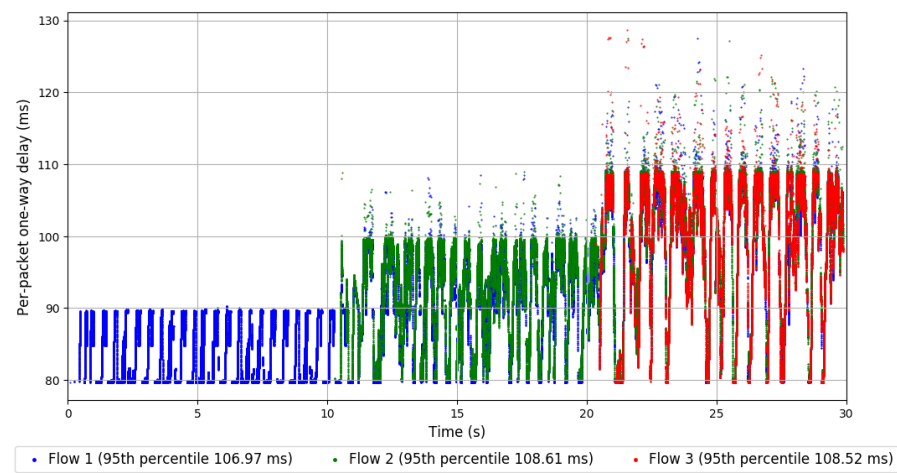
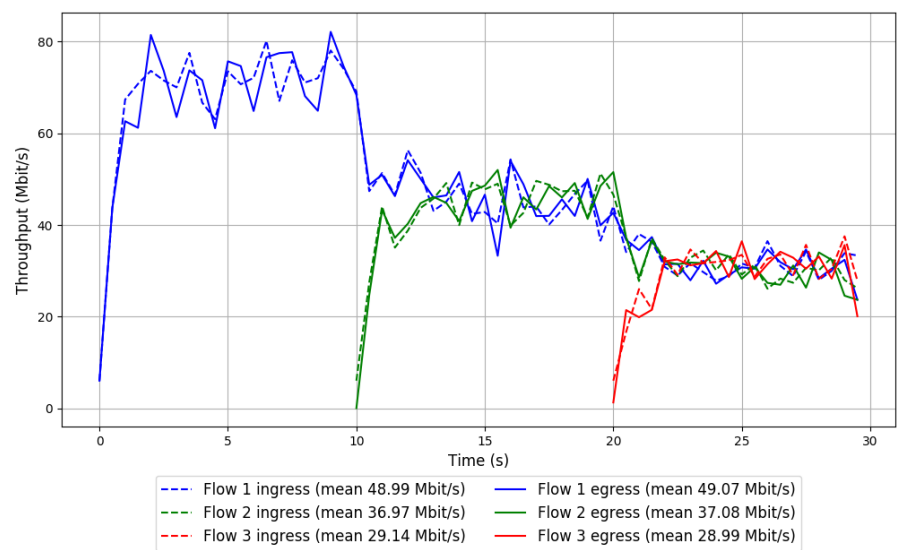
-- Flow 3:

Average throughput: 28.99 Mbit/s

95th percentile per-packet one-way delay: 108.516 ms

Loss rate: 2.58%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-04-10 19:50:14

End at: 2018-04-10 19:50:44

Local clock offset: -5.956 ms

Remote clock offset: 3.087 ms

Below is generated by plot.py at 2018-04-11 02:22:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 71.51 Mbit/s

95th percentile per-packet one-way delay: 107.627 ms

Loss rate: 14.21%

-- Flow 1:

Average throughput: 44.09 Mbit/s

95th percentile per-packet one-way delay: 105.529 ms

Loss rate: 12.72%

-- Flow 2:

Average throughput: 34.89 Mbit/s

95th percentile per-packet one-way delay: 107.874 ms

Loss rate: 17.70%

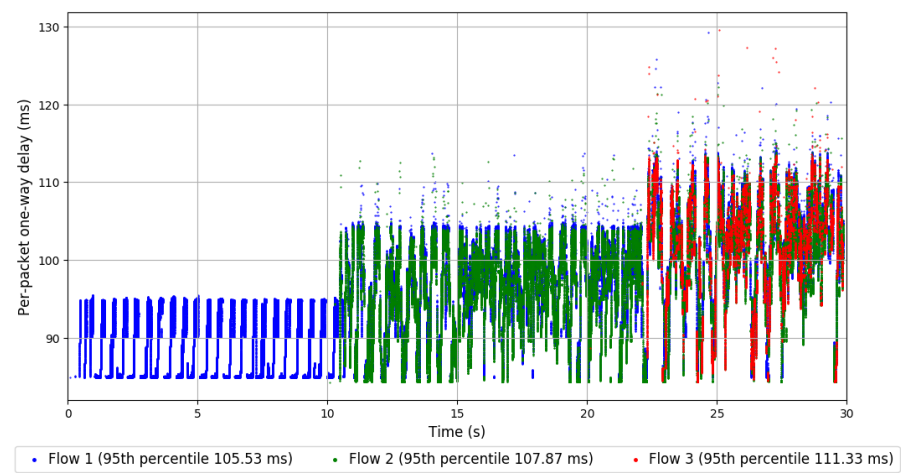
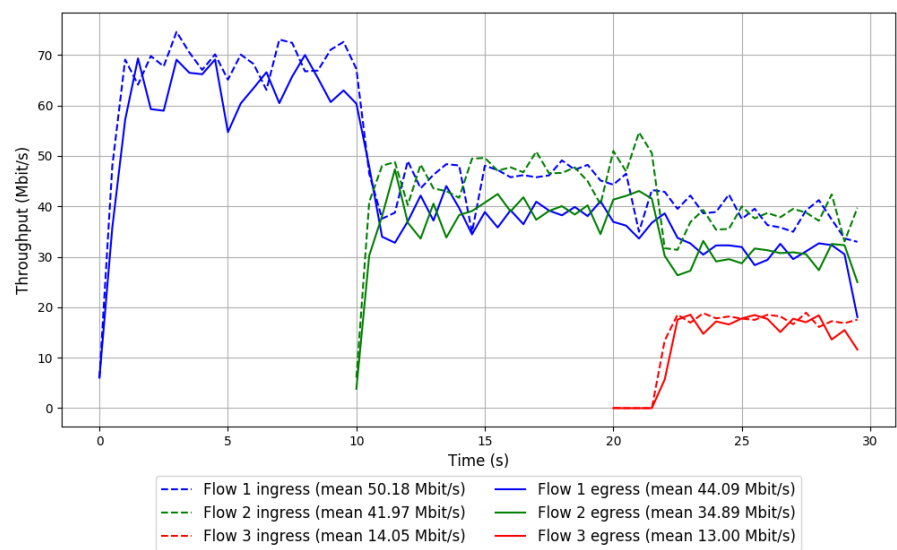
-- Flow 3:

Average throughput: 13.00 Mbit/s

95th percentile per-packet one-way delay: 111.332 ms

Loss rate: 9.28%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-04-10 20:14:43

End at: 2018-04-10 20:15:13

Local clock offset: -6.644 ms

Remote clock offset: 8.792 ms

Below is generated by plot.py at 2018-04-11 02:22:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 82.94 Mbit/s

95th percentile per-packet one-way delay: 104.233 ms

Loss rate: 0.79%

-- Flow 1:

Average throughput: 50.99 Mbit/s

95th percentile per-packet one-way delay: 102.369 ms

Loss rate: 0.50%

-- Flow 2:

Average throughput: 39.80 Mbit/s

95th percentile per-packet one-way delay: 105.048 ms

Loss rate: 1.08%

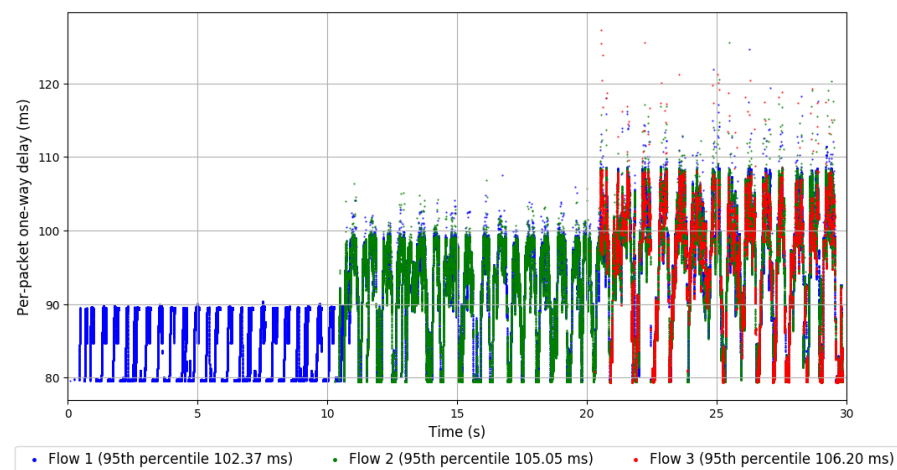
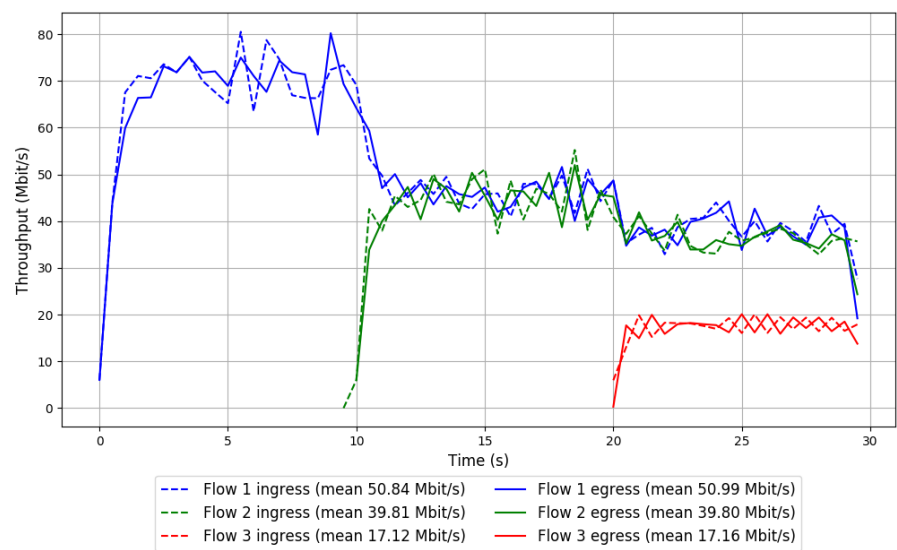
-- Flow 3:

Average throughput: 17.16 Mbit/s

95th percentile per-packet one-way delay: 106.201 ms

Loss rate: 2.01%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-04-10 20:38:47

End at: 2018-04-10 20:39:17

Local clock offset: -5.607 ms

Remote clock offset: 3.45 ms

Below is generated by plot.py at 2018-04-11 02:22:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 83.75 Mbit/s

95th percentile per-packet one-way delay: 110.745 ms

Loss rate: 0.72%

-- Flow 1:

Average throughput: 50.12 Mbit/s

95th percentile per-packet one-way delay: 109.045 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 40.96 Mbit/s

95th percentile per-packet one-way delay: 110.668 ms

Loss rate: 0.73%

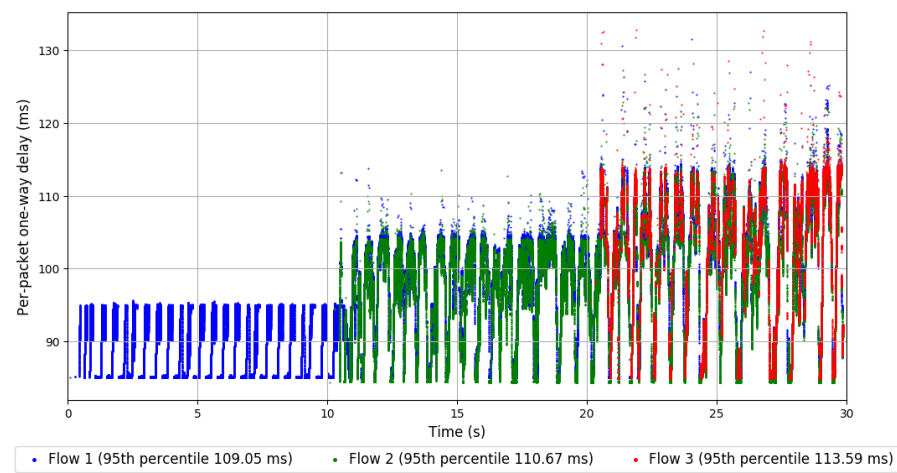
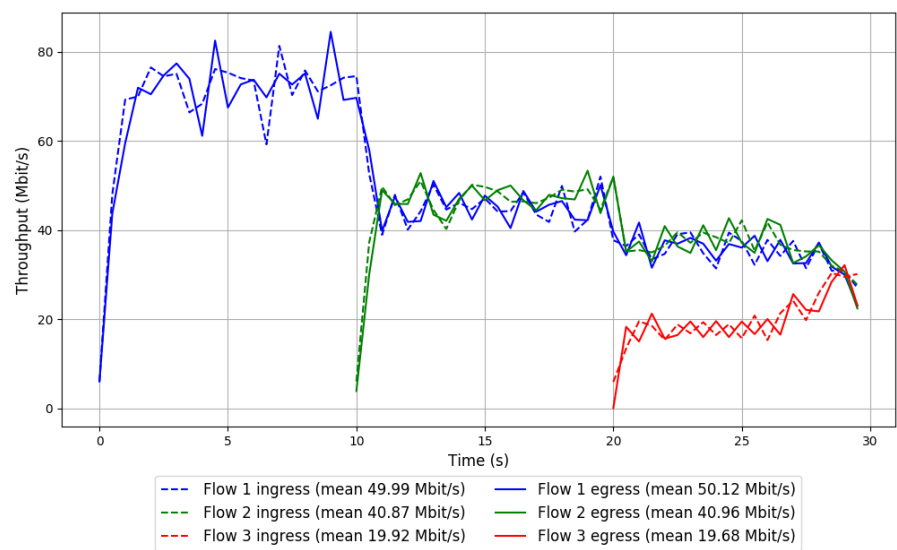
-- Flow 3:

Average throughput: 19.68 Mbit/s

95th percentile per-packet one-way delay: 113.586 ms

Loss rate: 3.17%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-04-10 21:02:51

End at: 2018-04-10 21:03:21

Local clock offset: -5.679 ms

Remote clock offset: 6.824 ms

Below is generated by plot.py at 2018-04-11 02:22:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 70.40 Mbit/s

95th percentile per-packet one-way delay: 102.062 ms

Loss rate: 13.47%

-- Flow 1:

Average throughput: 46.20 Mbit/s

95th percentile per-packet one-way delay: 99.838 ms

Loss rate: 11.77%

-- Flow 2:

Average throughput: 30.14 Mbit/s

95th percentile per-packet one-way delay: 102.772 ms

Loss rate: 16.10%

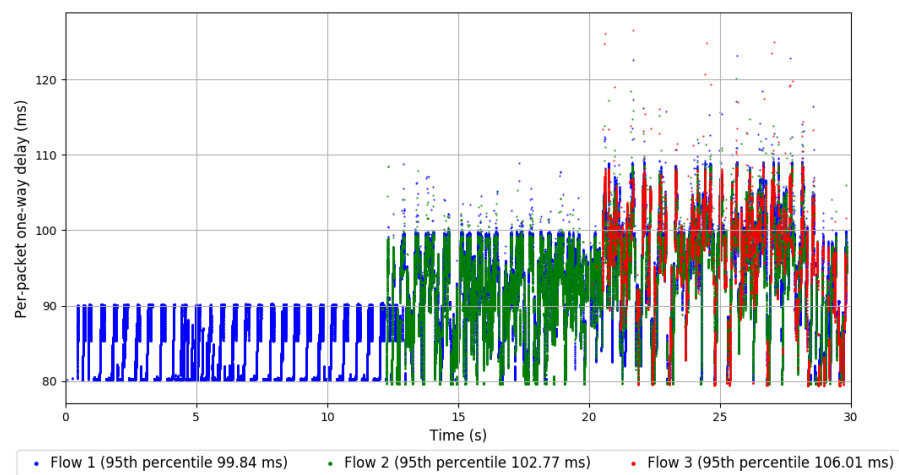
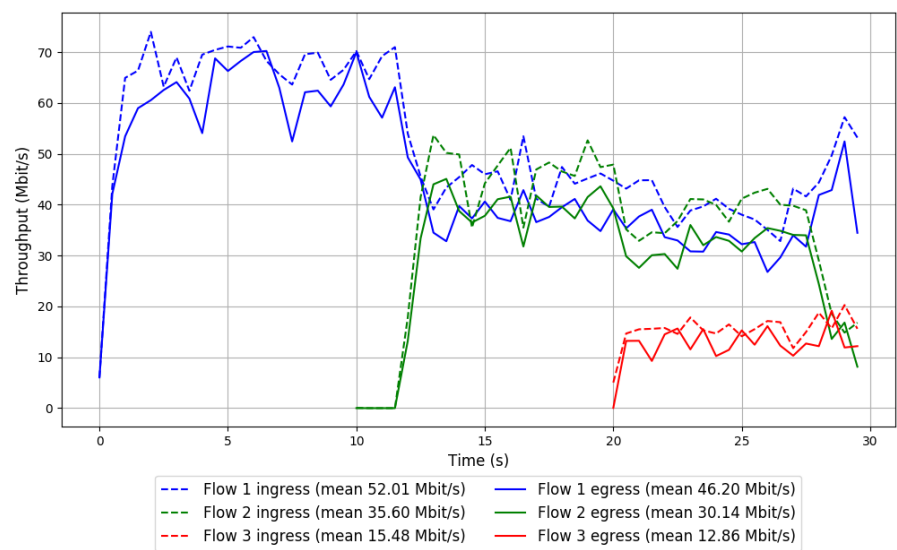
-- Flow 3:

Average throughput: 12.86 Mbit/s

95th percentile per-packet one-way delay: 106.011 ms

Loss rate: 18.56%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-04-10 21:27:02

End at: 2018-04-10 21:27:32

Local clock offset: -6.181 ms

Remote clock offset: 7.295 ms

Below is generated by plot.py at 2018-04-11 02:24:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 83.79 Mbit/s

95th percentile per-packet one-way delay: 107.056 ms

Loss rate: 0.80%

-- Flow 1:

Average throughput: 50.69 Mbit/s

95th percentile per-packet one-way delay: 104.862 ms

Loss rate: 0.46%

-- Flow 2:

Average throughput: 38.80 Mbit/s

95th percentile per-packet one-way delay: 106.844 ms

Loss rate: 0.85%

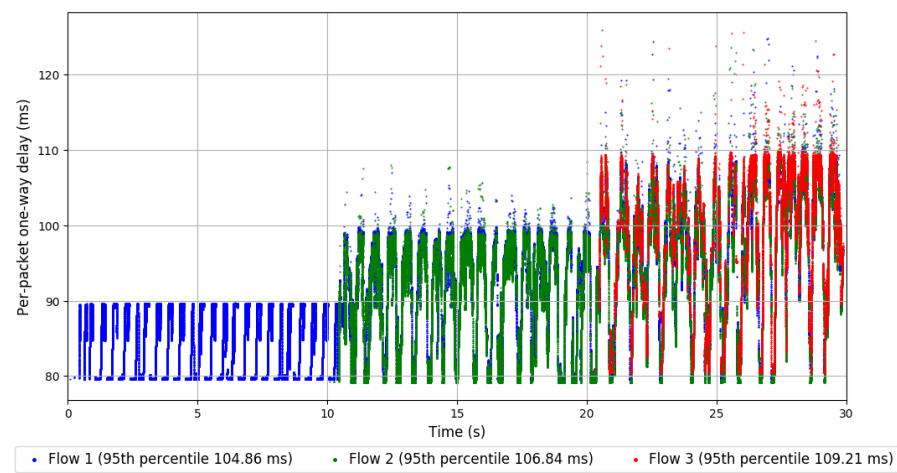
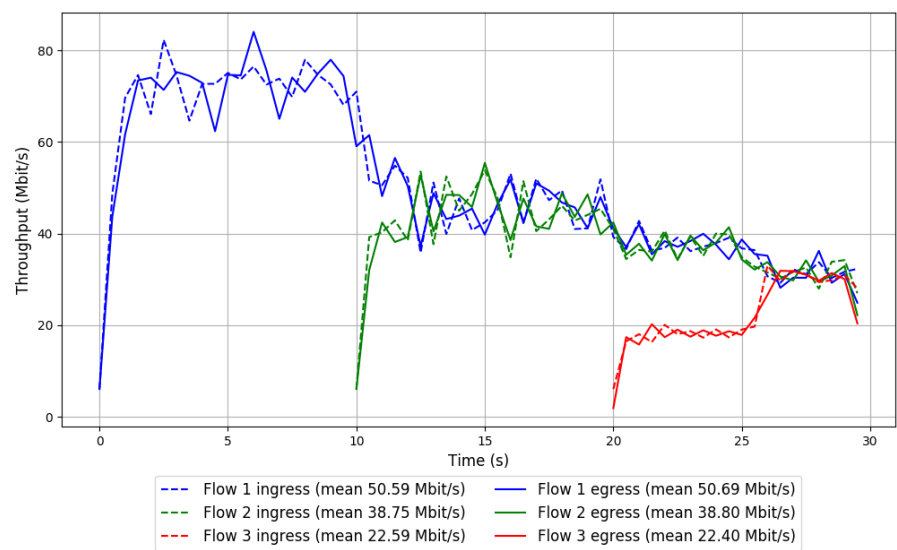
-- Flow 3:

Average throughput: 22.40 Mbit/s

95th percentile per-packet one-way delay: 109.213 ms

Loss rate: 2.91%

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



Run 10: Statistics of TaoVA-100x

Start at: 2018-04-10 21:51:15

End at: 2018-04-10 21:51:45

Local clock offset: -5.667 ms

Remote clock offset: 7.154 ms

Below is generated by plot.py at 2018-04-11 02:24:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 83.13 Mbit/s

95th percentile per-packet one-way delay: 106.192 ms

Loss rate: 0.81%

-- Flow 1:

Average throughput: 50.43 Mbit/s

95th percentile per-packet one-way delay: 104.142 ms

Loss rate: 0.48%

-- Flow 2:

Average throughput: 39.43 Mbit/s

95th percentile per-packet one-way delay: 106.287 ms

Loss rate: 0.78%

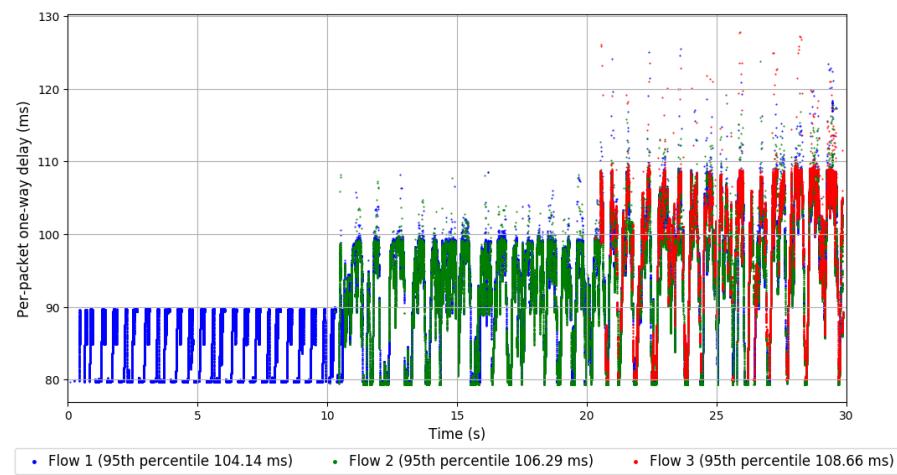
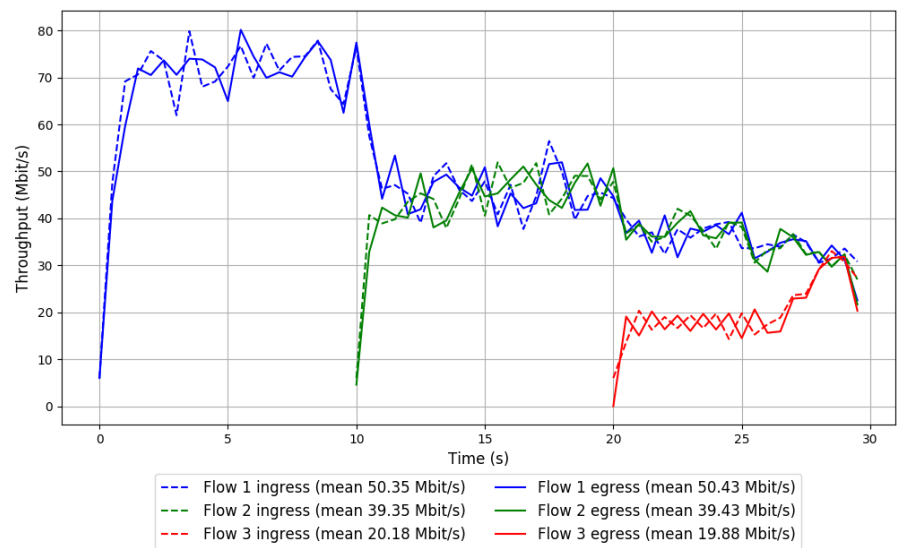
-- Flow 3:

Average throughput: 19.88 Mbit/s

95th percentile per-packet one-way delay: 108.663 ms

Loss rate: 3.42%

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



Run 1: Statistics of TCP Vegas

Start at: 2018-04-10 18:20:37

End at: 2018-04-10 18:21:07

Local clock offset: -5.595 ms

Remote clock offset: 8.268 ms

Below is generated by plot.py at 2018-04-11 02:24:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 72.51 Mbit/s

95th percentile per-packet one-way delay: 114.428 ms

Loss rate: 0.97%

-- Flow 1:

Average throughput: 39.21 Mbit/s

95th percentile per-packet one-way delay: 114.123 ms

Loss rate: 0.58%

-- Flow 2:

Average throughput: 35.99 Mbit/s

95th percentile per-packet one-way delay: 114.220 ms

Loss rate: 1.03%

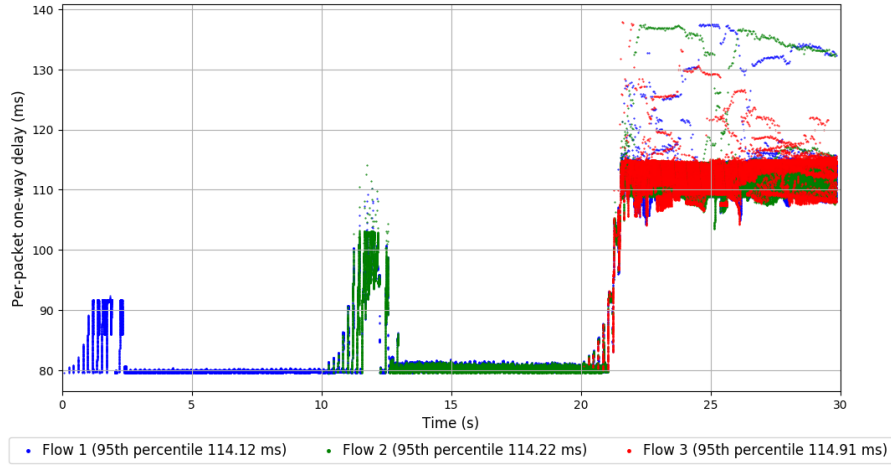
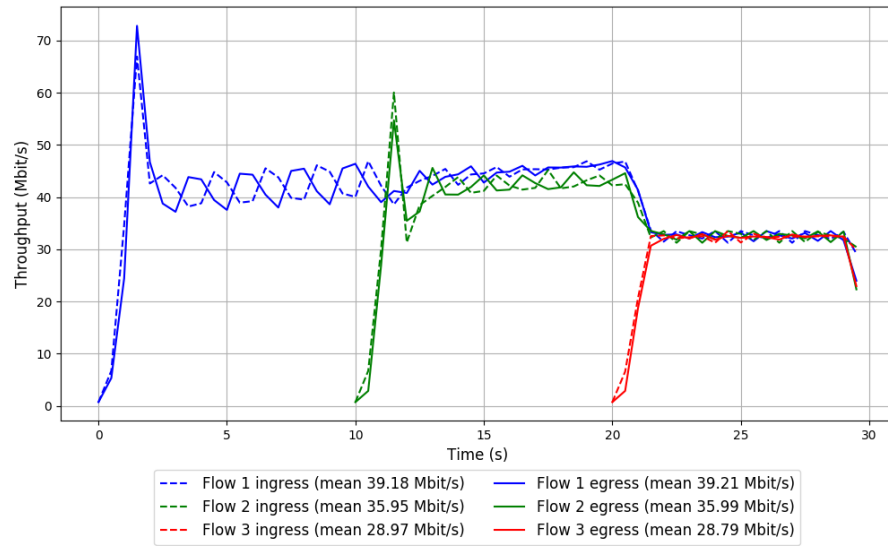
-- Flow 3:

Average throughput: 28.79 Mbit/s

95th percentile per-packet one-way delay: 114.909 ms

Loss rate: 2.46%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-04-10 18:44:47

End at: 2018-04-10 18:45:17

Local clock offset: -5.537 ms

Remote clock offset: 9.686 ms

Below is generated by plot.py at 2018-04-11 02:24:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 75.60 Mbit/s

95th percentile per-packet one-way delay: 113.306 ms

Loss rate: 0.92%

-- Flow 1:

Average throughput: 37.28 Mbit/s

95th percentile per-packet one-way delay: 112.233 ms

Loss rate: 0.62%

-- Flow 2:

Average throughput: 43.56 Mbit/s

95th percentile per-packet one-way delay: 113.893 ms

Loss rate: 0.78%

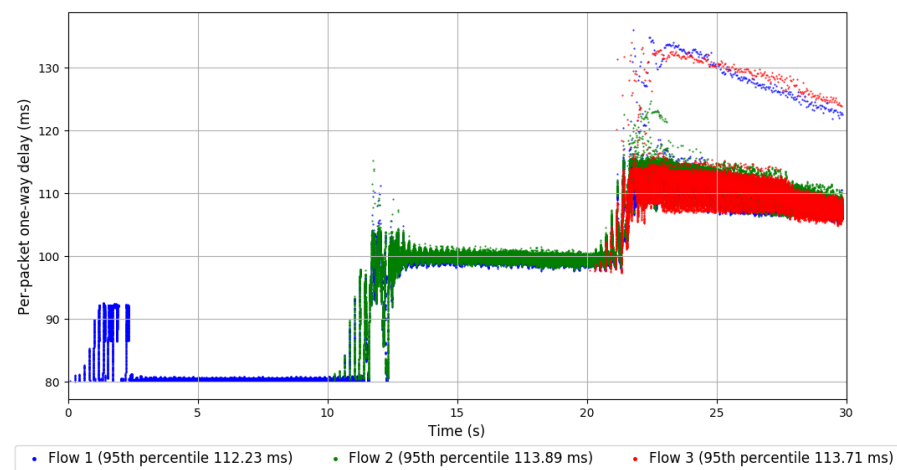
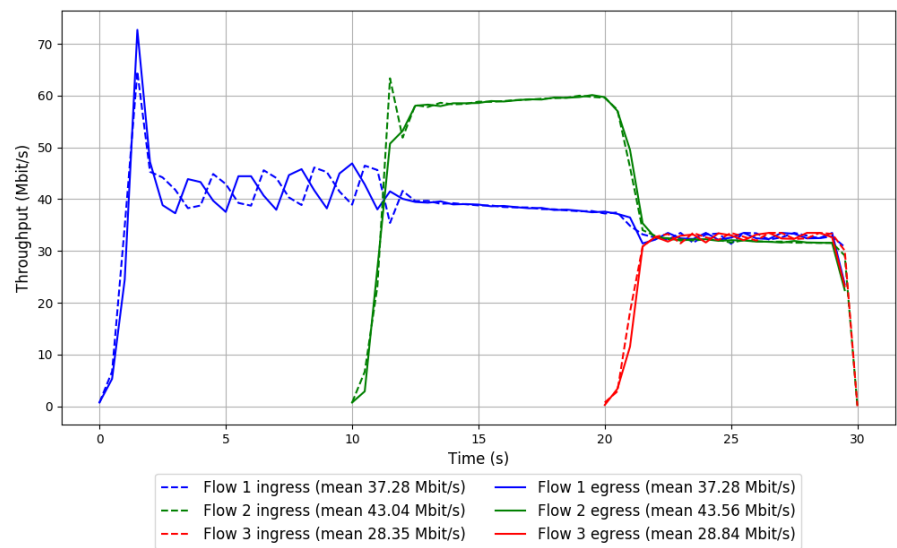
-- Flow 3:

Average throughput: 28.84 Mbit/s

95th percentile per-packet one-way delay: 113.709 ms

Loss rate: 2.48%

Run 2: Report of TCP Vegas — Data Link

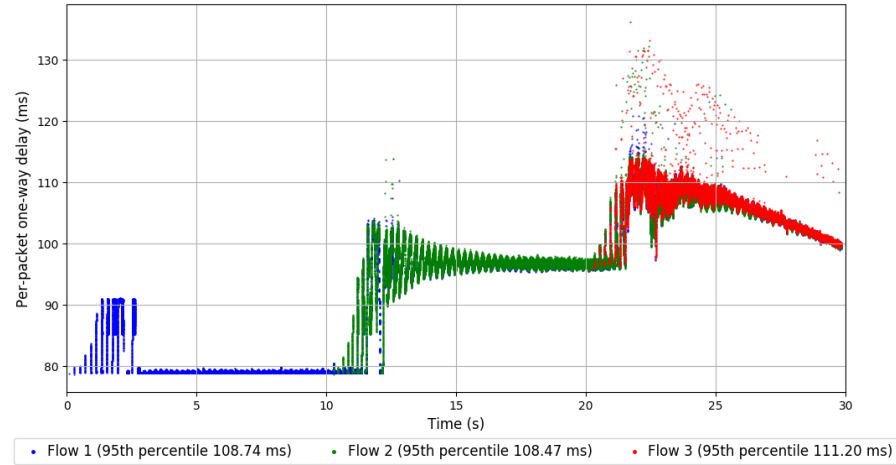
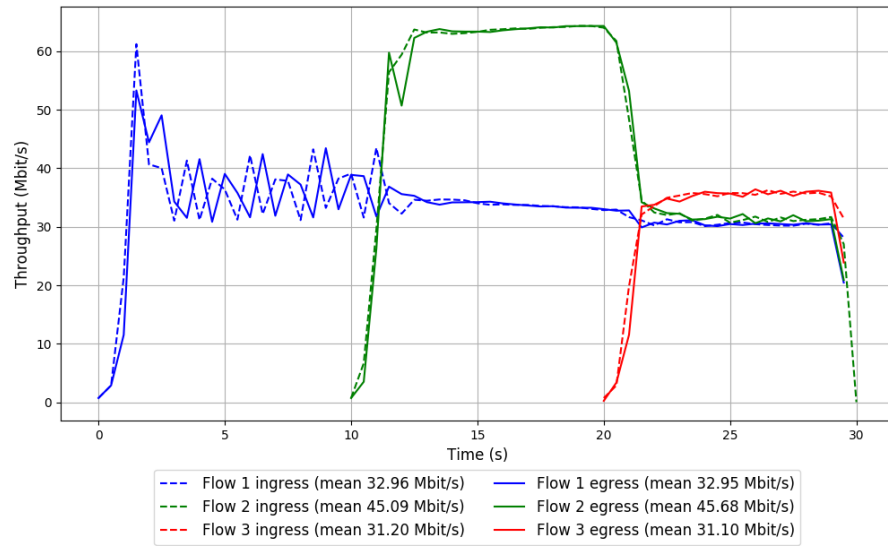


Run 3: Statistics of TCP Vegas

Start at: 2018-04-10 19:08:54
End at: 2018-04-10 19:09:24
Local clock offset: -6.161 ms
Remote clock offset: 7.584 ms

Below is generated by plot.py at 2018-04-11 02:24:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 73.41 Mbit/s
95th percentile per-packet one-way delay: 109.367 ms
Loss rate: 0.93%
-- Flow 1:
Average throughput: 32.95 Mbit/s
95th percentile per-packet one-way delay: 108.741 ms
Loss rate: 0.70%
-- Flow 2:
Average throughput: 45.68 Mbit/s
95th percentile per-packet one-way delay: 108.475 ms
Loss rate: 0.69%
-- Flow 3:
Average throughput: 31.10 Mbit/s
95th percentile per-packet one-way delay: 111.203 ms
Loss rate: 2.33%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-04-10 19:32:52

End at: 2018-04-10 19:33:22

Local clock offset: -5.827 ms

Remote clock offset: 7.525 ms

Below is generated by plot.py at 2018-04-11 02:24:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 42.28 Mbit/s

95th percentile per-packet one-way delay: 91.174 ms

Loss rate: 1.54%

-- Flow 1:

Average throughput: 18.74 Mbit/s

95th percentile per-packet one-way delay: 91.077 ms

Loss rate: 1.24%

-- Flow 2:

Average throughput: 26.11 Mbit/s

95th percentile per-packet one-way delay: 92.420 ms

Loss rate: 1.09%

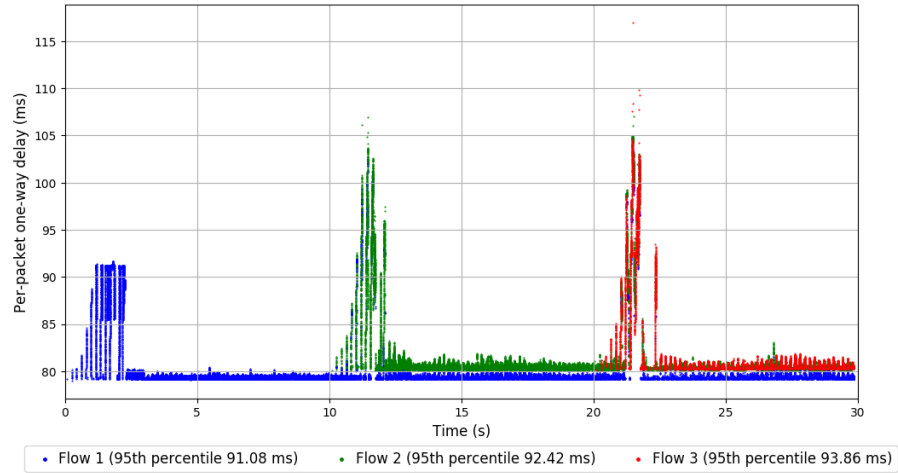
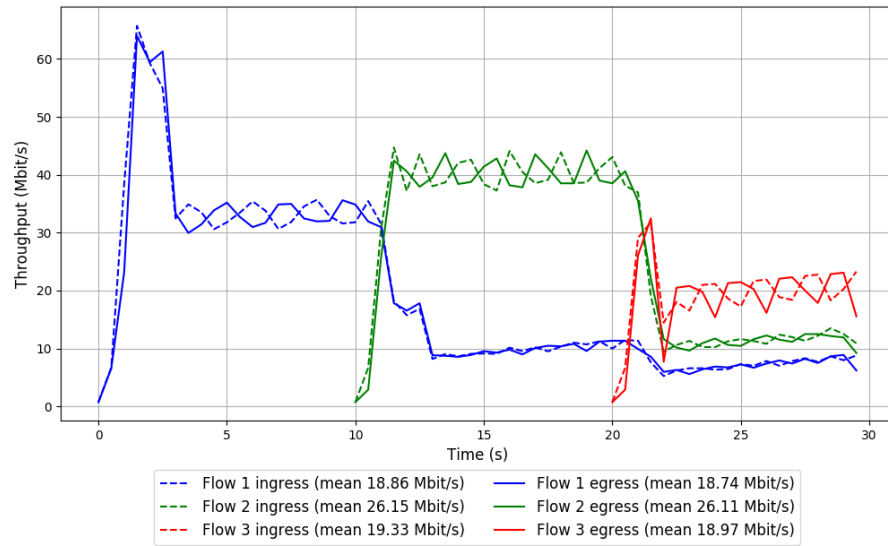
-- Flow 3:

Average throughput: 18.97 Mbit/s

95th percentile per-packet one-way delay: 93.858 ms

Loss rate: 3.65%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-04-10 19:57:15

End at: 2018-04-10 19:57:45

Local clock offset: -5.958 ms

Remote clock offset: 3.217 ms

Below is generated by plot.py at 2018-04-11 02:24:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 72.41 Mbit/s

95th percentile per-packet one-way delay: 117.831 ms

Loss rate: 0.97%

-- Flow 1:

Average throughput: 38.78 Mbit/s

95th percentile per-packet one-way delay: 116.909 ms

Loss rate: 0.61%

-- Flow 2:

Average throughput: 37.34 Mbit/s

95th percentile per-packet one-way delay: 117.884 ms

Loss rate: 1.00%

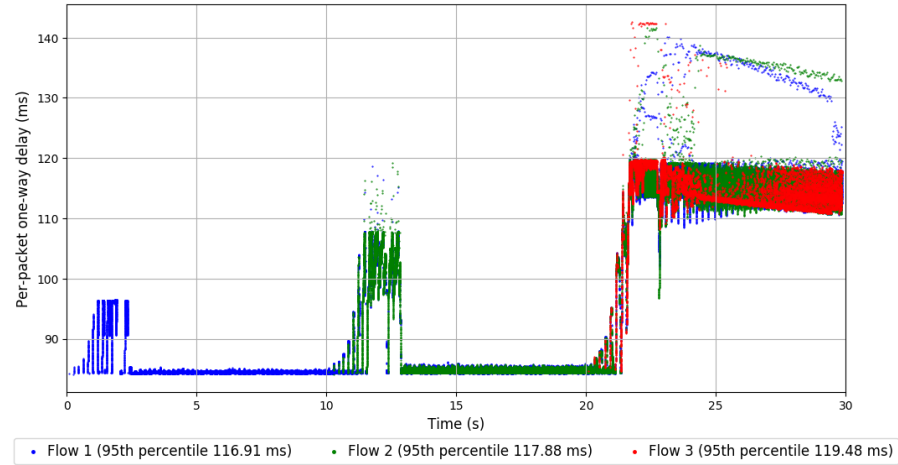
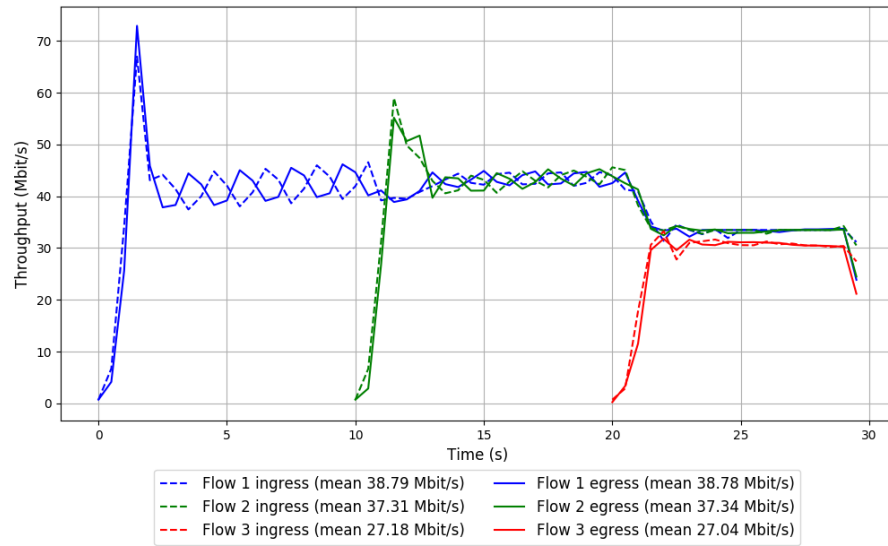
-- Flow 3:

Average throughput: 27.04 Mbit/s

95th percentile per-packet one-way delay: 119.480 ms

Loss rate: 2.41%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-04-10 20:21:23

End at: 2018-04-10 20:21:53

Local clock offset: -5.906 ms

Remote clock offset: 4.199 ms

Below is generated by plot.py at 2018-04-11 02:24:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 69.11 Mbit/s

95th percentile per-packet one-way delay: 119.348 ms

Loss rate: 1.03%

-- Flow 1:

Average throughput: 35.24 Mbit/s

95th percentile per-packet one-way delay: 119.115 ms

Loss rate: 0.69%

-- Flow 2:

Average throughput: 37.02 Mbit/s

95th percentile per-packet one-way delay: 119.637 ms

Loss rate: 1.00%

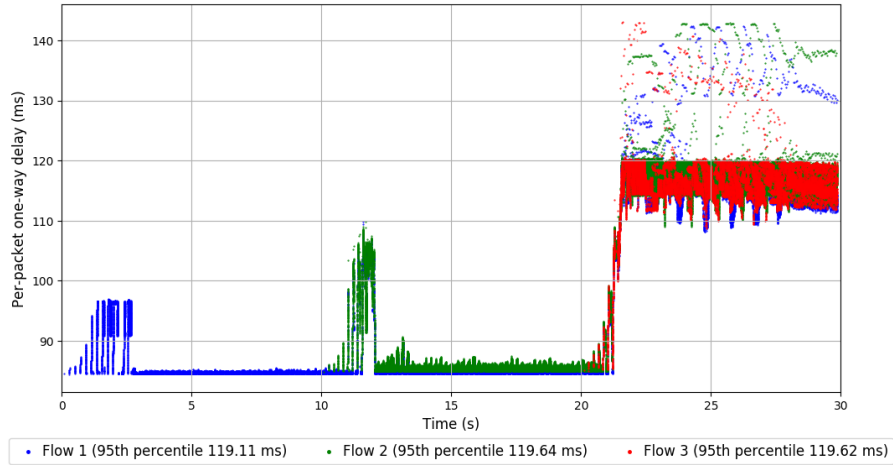
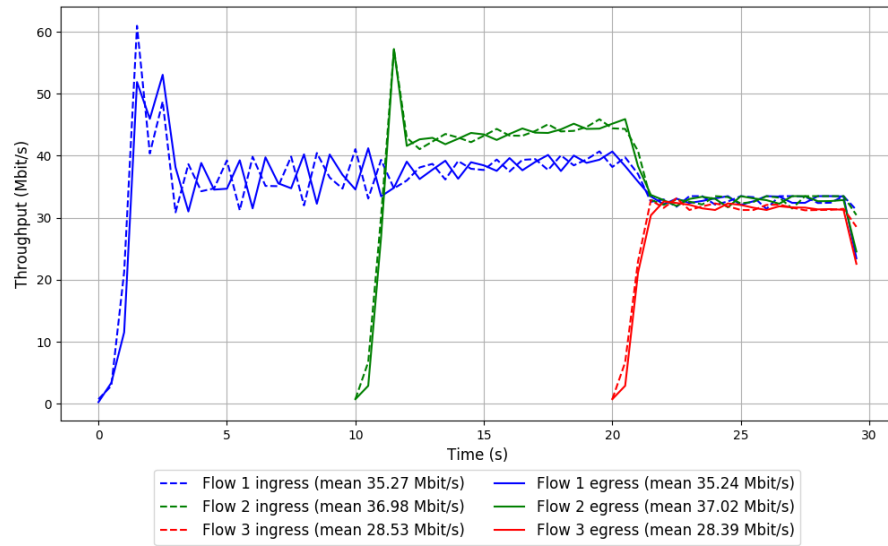
-- Flow 3:

Average throughput: 28.39 Mbit/s

95th percentile per-packet one-way delay: 119.622 ms

Loss rate: 2.34%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

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

End at: 2018-04-10 20:45:52

Local clock offset: -6.286 ms

Remote clock offset: 2.755 ms

Below is generated by plot.py at 2018-04-11 02:24:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 48.21 Mbit/s

95th percentile per-packet one-way delay: 96.223 ms

Loss rate: 1.66%

-- Flow 1:

Average throughput: 24.94 Mbit/s

95th percentile per-packet one-way delay: 96.220 ms

Loss rate: 1.30%

-- Flow 2:

Average throughput: 25.33 Mbit/s

95th percentile per-packet one-way delay: 96.383 ms

Loss rate: 1.86%

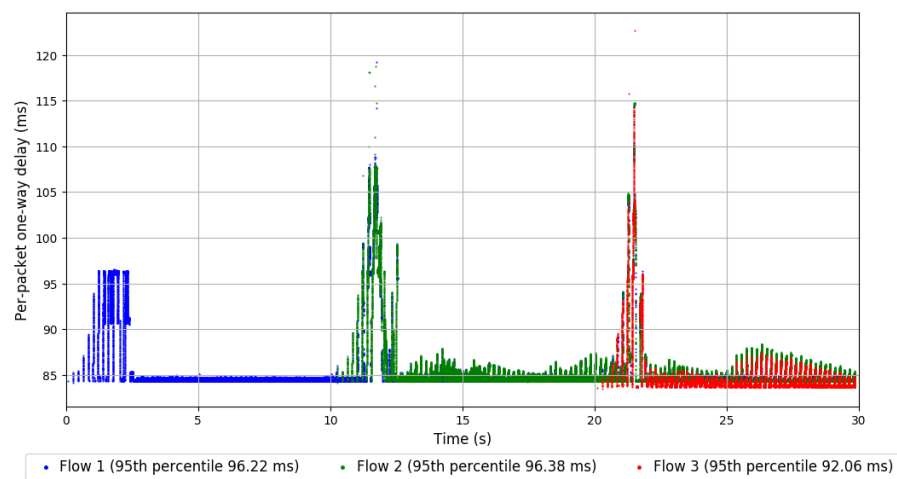
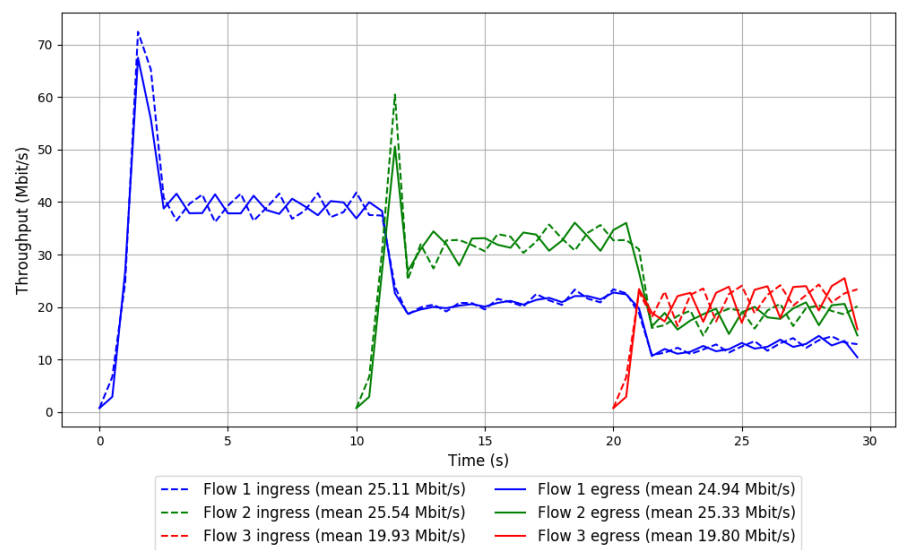
-- Flow 3:

Average throughput: 19.80 Mbit/s

95th percentile per-packet one-way delay: 92.059 ms

Loss rate: 2.51%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-04-10 21:09:41

End at: 2018-04-10 21:10:11

Local clock offset: -5.105 ms

Remote clock offset: 6.887 ms

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 75.80 Mbit/s

95th percentile per-packet one-way delay: 114.469 ms

Loss rate: 0.92%

-- Flow 1:

Average throughput: 37.23 Mbit/s

95th percentile per-packet one-way delay: 113.919 ms

Loss rate: 0.62%

-- Flow 2:

Average throughput: 43.96 Mbit/s

95th percentile per-packet one-way delay: 114.466 ms

Loss rate: 0.79%

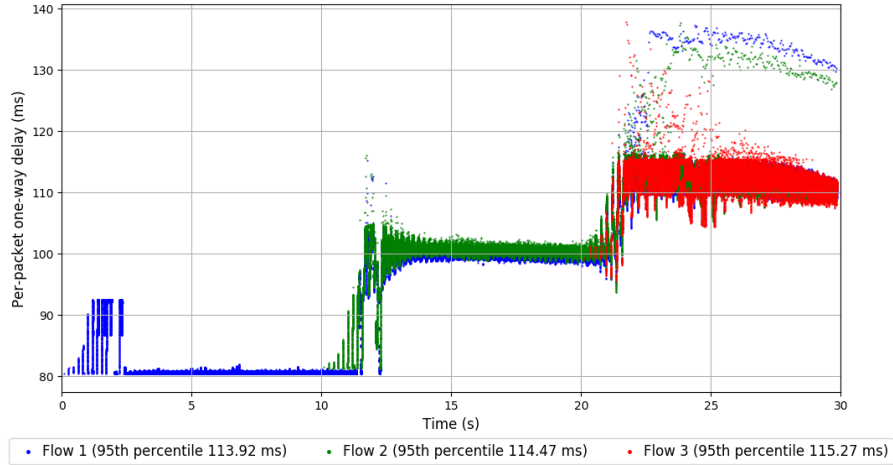
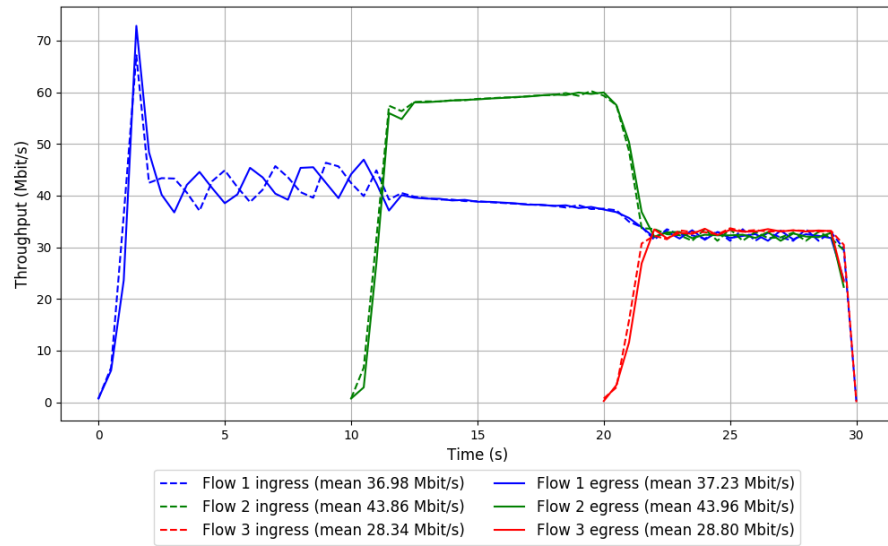
-- Flow 3:

Average throughput: 28.80 Mbit/s

95th percentile per-packet one-way delay: 115.273 ms

Loss rate: 2.50%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-04-10 21:33:42

End at: 2018-04-10 21:34:12

Local clock offset: -6.255 ms

Remote clock offset: 7.278 ms

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 71.75 Mbit/s

95th percentile per-packet one-way delay: 114.428 ms

Loss rate: 0.98%

-- Flow 1:

Average throughput: 37.59 Mbit/s

95th percentile per-packet one-way delay: 114.107 ms

Loss rate: 0.67%

-- Flow 2:

Average throughput: 37.19 Mbit/s

95th percentile per-packet one-way delay: 114.411 ms

Loss rate: 0.91%

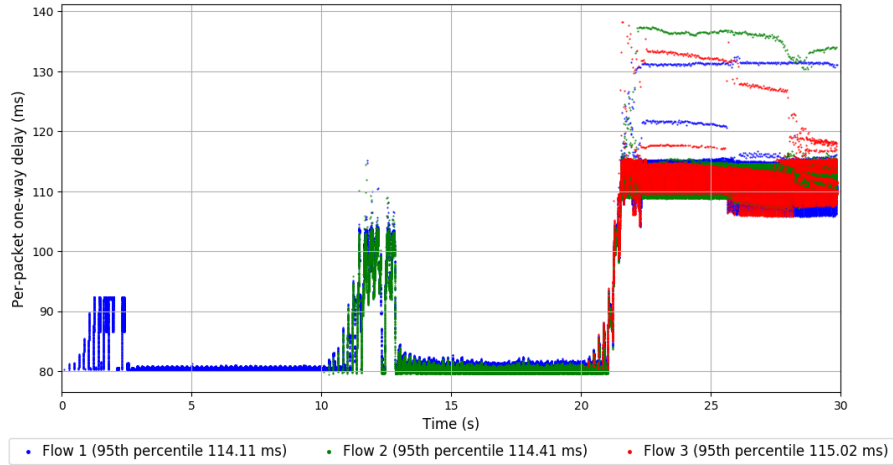
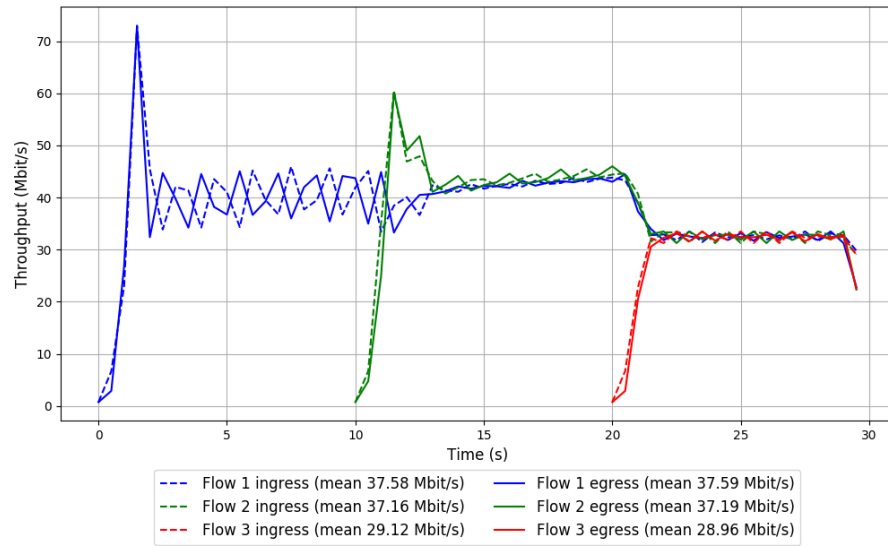
-- Flow 3:

Average throughput: 28.96 Mbit/s

95th percentile per-packet one-way delay: 115.024 ms

Loss rate: 2.36%

Run 9: Report of TCP Vegas — Data Link

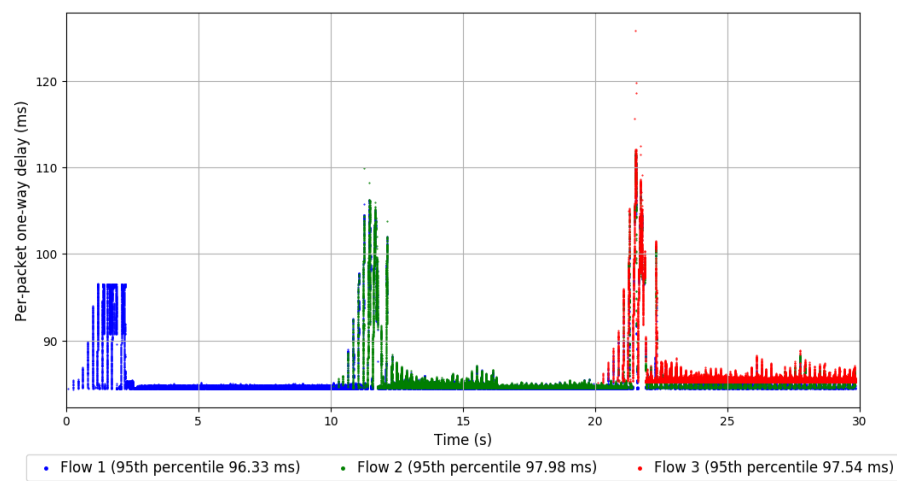
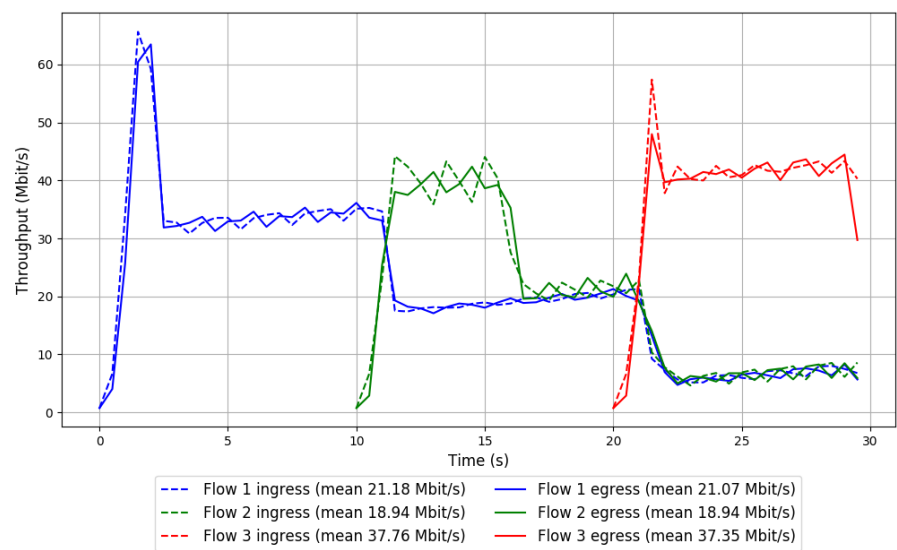


Run 10: Statistics of TCP Vegas

Start at: 2018-04-10 21:57:54
End at: 2018-04-10 21:58:24
Local clock offset: -5.591 ms
Remote clock offset: 2.313 ms

Below is generated by plot.py at 2018-04-11 02:25:02
Datalink statistics
-- Total of 3 flows:
Average throughput: 45.84 Mbit/s
95th percentile per-packet one-way delay: 96.420 ms
Loss rate: 1.63%
-- Flow 1:
Average throughput: 21.07 Mbit/s
95th percentile per-packet one-way delay: 96.329 ms
Loss rate: 1.10%
-- Flow 2:
Average throughput: 18.94 Mbit/s
95th percentile per-packet one-way delay: 97.976 ms
Loss rate: 1.17%
-- Flow 3:
Average throughput: 37.35 Mbit/s
95th percentile per-packet one-way delay: 97.538 ms
Loss rate: 2.97%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-04-10 18:16:38

End at: 2018-04-10 18:17:08

Local clock offset: -6.279 ms

Remote clock offset: 3.111 ms

Below is generated by plot.py at 2018-04-11 02:25:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 67.76 Mbit/s

95th percentile per-packet one-way delay: 117.127 ms

Loss rate: 1.03%

-- Flow 1:

Average throughput: 42.87 Mbit/s

95th percentile per-packet one-way delay: 114.432 ms

Loss rate: 0.55%

-- Flow 2:

Average throughput: 25.78 Mbit/s

95th percentile per-packet one-way delay: 117.912 ms

Loss rate: 1.41%

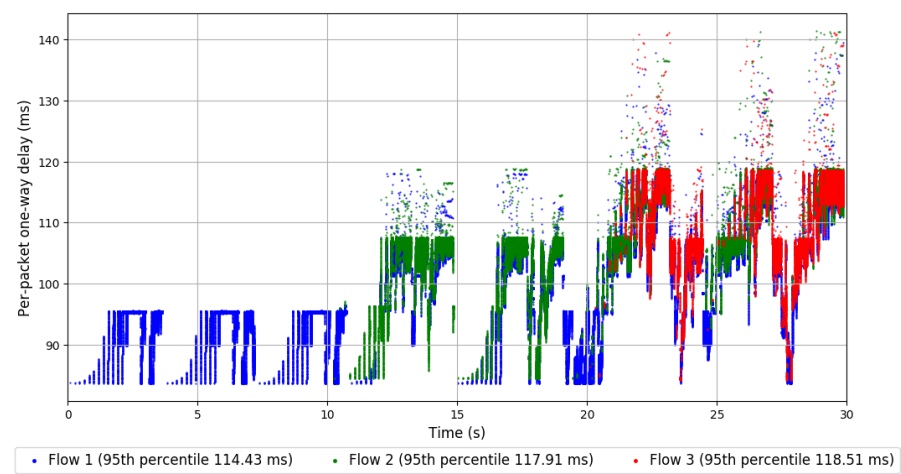
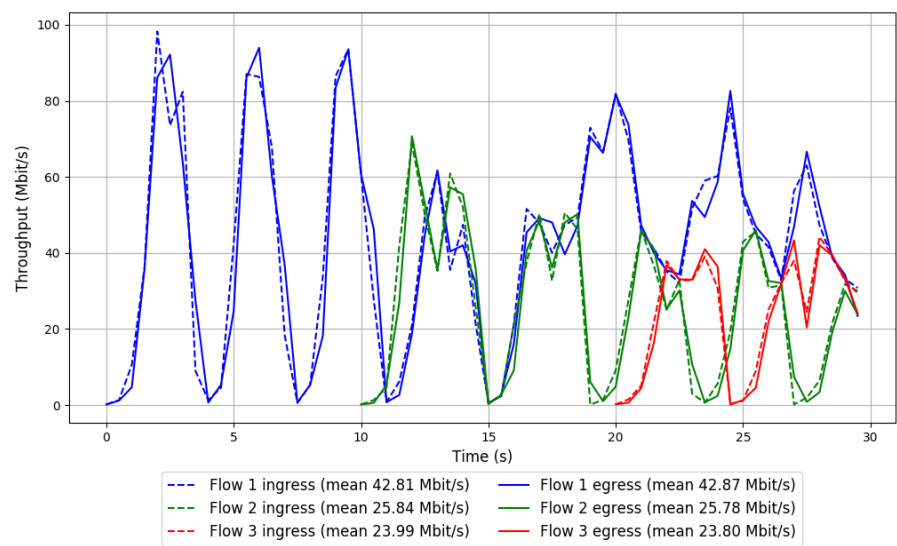
-- Flow 3:

Average throughput: 23.80 Mbit/s

95th percentile per-packet one-way delay: 118.513 ms

Loss rate: 2.77%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-04-10 18:40:46

End at: 2018-04-10 18:41:16

Local clock offset: -5.549 ms

Remote clock offset: 9.514 ms

Below is generated by plot.py at 2018-04-11 02:25:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 56.54 Mbit/s

95th percentile per-packet one-way delay: 109.343 ms

Loss rate: 12.85%

-- Flow 1:

Average throughput: 37.80 Mbit/s

95th percentile per-packet one-way delay: 105.268 ms

Loss rate: 11.66%

-- Flow 2:

Average throughput: 20.56 Mbit/s

95th percentile per-packet one-way delay: 110.374 ms

Loss rate: 13.70%

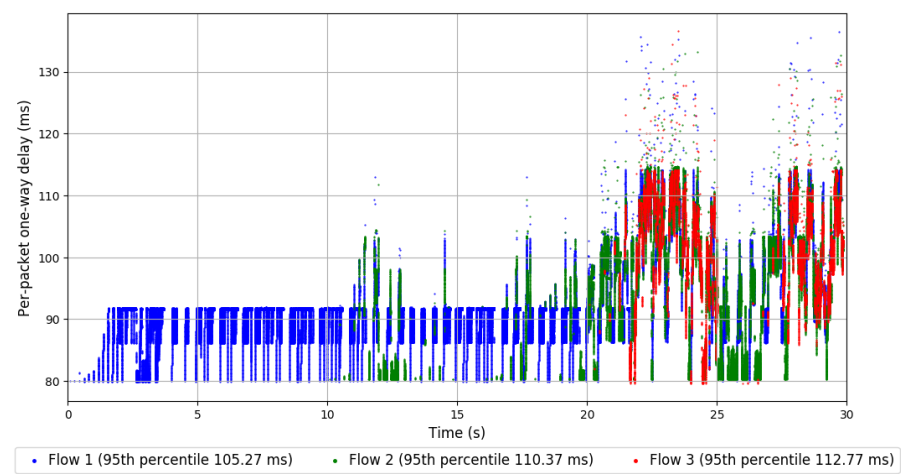
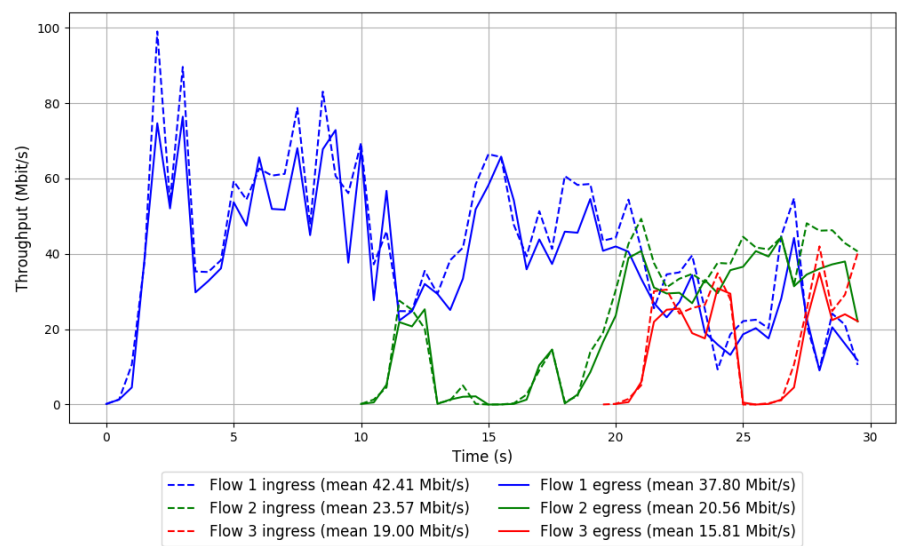
-- Flow 3:

Average throughput: 15.81 Mbit/s

95th percentile per-packet one-way delay: 112.767 ms

Loss rate: 18.75%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-04-10 19:04:46

End at: 2018-04-10 19:05:16

Local clock offset: -5.378 ms

Remote clock offset: 3.058 ms

Below is generated by plot.py at 2018-04-11 02:25:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 66.78 Mbit/s

95th percentile per-packet one-way delay: 115.371 ms

Loss rate: 1.07%

-- Flow 1:

Average throughput: 33.77 Mbit/s

95th percentile per-packet one-way delay: 111.402 ms

Loss rate: 1.90%

-- Flow 2:

Average throughput: 39.95 Mbit/s

95th percentile per-packet one-way delay: 114.436 ms

Loss rate: 0.01%

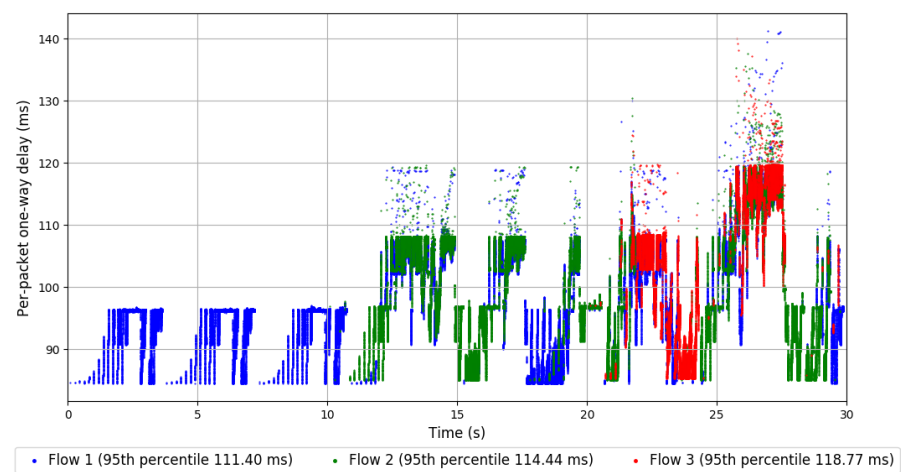
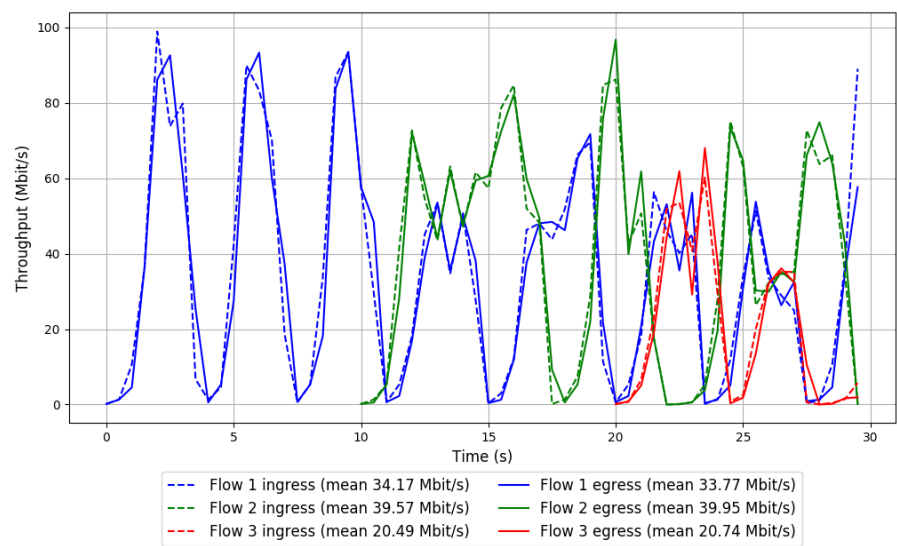
-- Flow 3:

Average throughput: 20.74 Mbit/s

95th percentile per-packet one-way delay: 118.767 ms

Loss rate: 0.95%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-04-10 19:28:56

End at: 2018-04-10 19:29:26

Local clock offset: -5.679 ms

Remote clock offset: 7.343 ms

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 61.74 Mbit/s

95th percentile per-packet one-way delay: 108.679 ms

Loss rate: 0.33%

-- Flow 1:

Average throughput: 34.05 Mbit/s

95th percentile per-packet one-way delay: 102.897 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 29.70 Mbit/s

95th percentile per-packet one-way delay: 109.484 ms

Loss rate: 0.28%

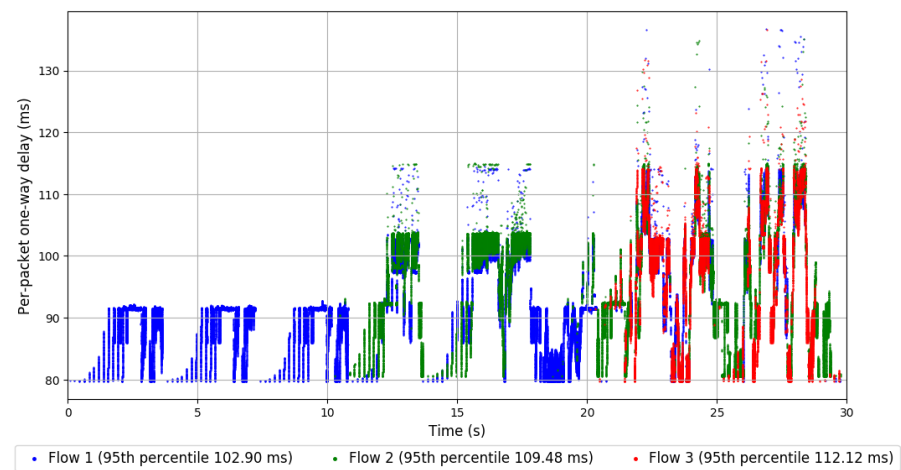
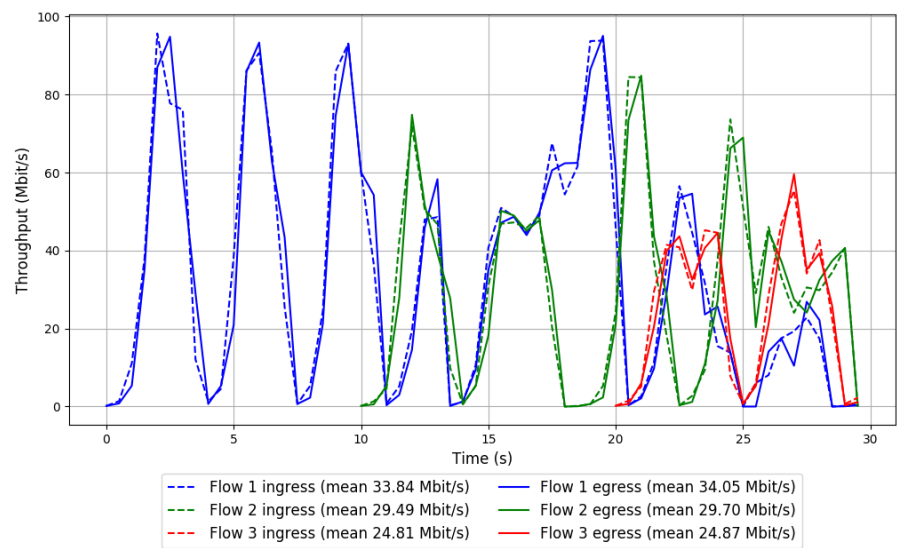
-- Flow 3:

Average throughput: 24.87 Mbit/s

95th percentile per-packet one-way delay: 112.118 ms

Loss rate: 1.75%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-04-10 19:53:03

End at: 2018-04-10 19:53:33

Local clock offset: -6.702 ms

Remote clock offset: 7.906 ms

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 52.68 Mbit/s

95th percentile per-packet one-way delay: 101.990 ms

Loss rate: 12.30%

-- Flow 1:

Average throughput: 27.92 Mbit/s

95th percentile per-packet one-way delay: 101.611 ms

Loss rate: 12.27%

-- Flow 2:

Average throughput: 25.19 Mbit/s

95th percentile per-packet one-way delay: 102.235 ms

Loss rate: 13.16%

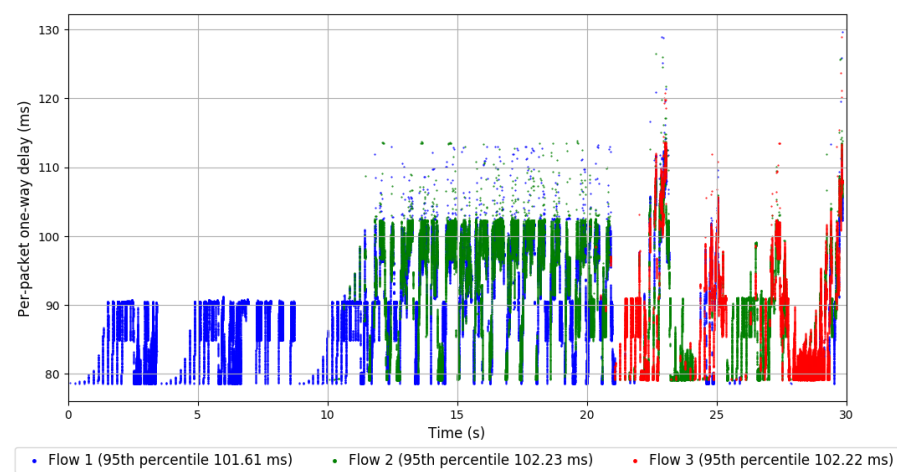
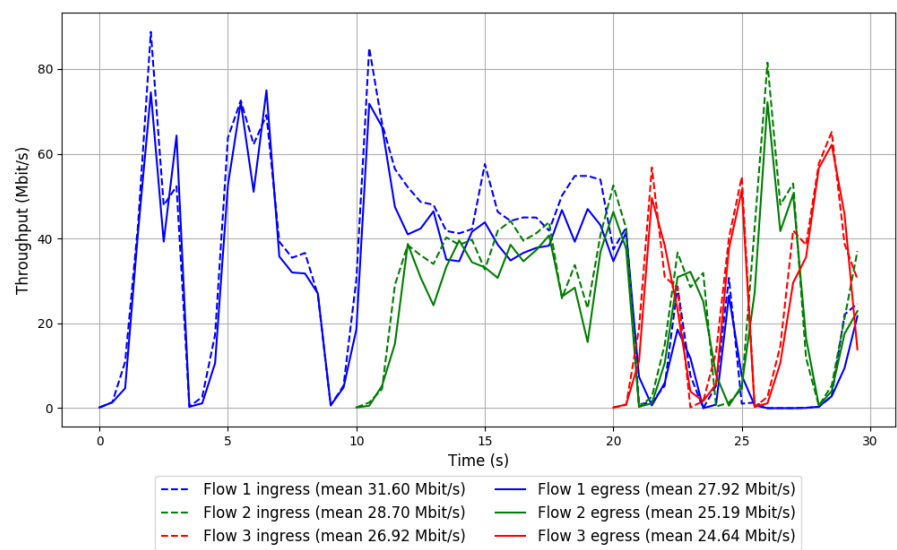
-- Flow 3:

Average throughput: 24.64 Mbit/s

95th percentile per-packet one-way delay: 102.215 ms

Loss rate: 10.57%

Run 5: Report of Verus — Data Link

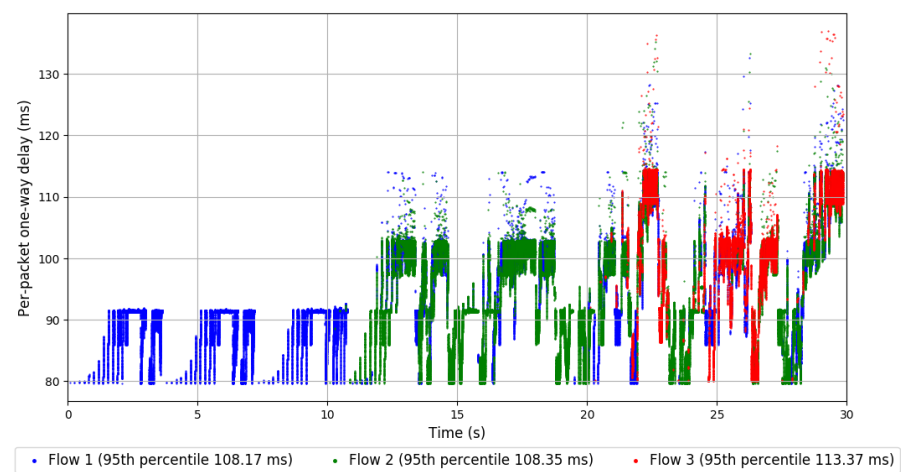
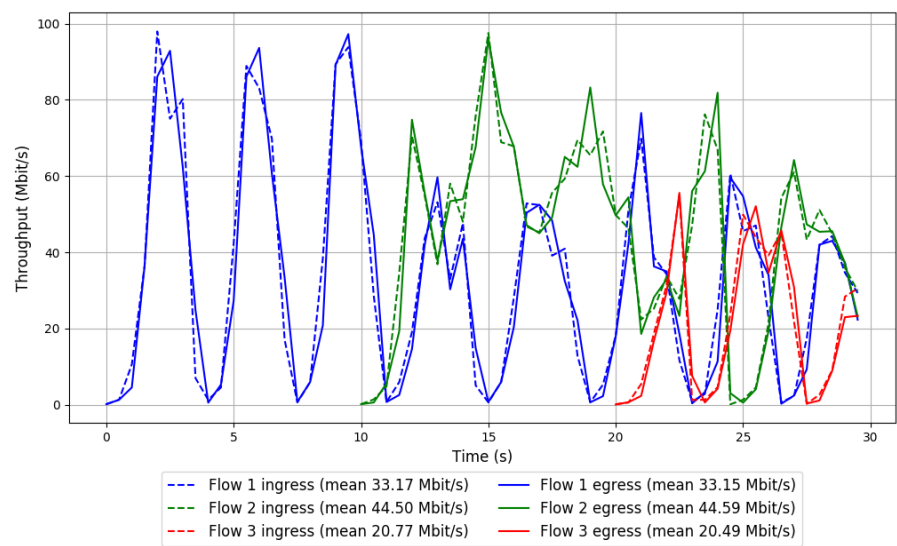


Run 6: Statistics of Verus

Start at: 2018-04-10 20:17:24
End at: 2018-04-10 20:17:54
Local clock offset: -5.856 ms
Remote clock offset: 8.872 ms

Below is generated by plot.py at 2018-04-11 02:25:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 69.44 Mbit/s
95th percentile per-packet one-way delay: 110.082 ms
Loss rate: 1.02%
-- Flow 1:
Average throughput: 33.15 Mbit/s
95th percentile per-packet one-way delay: 108.170 ms
Loss rate: 0.70%
-- Flow 2:
Average throughput: 44.59 Mbit/s
95th percentile per-packet one-way delay: 108.348 ms
Loss rate: 0.80%
-- Flow 3:
Average throughput: 20.49 Mbit/s
95th percentile per-packet one-way delay: 113.367 ms
Loss rate: 3.44%

Run 6: Report of Verus — Data Link

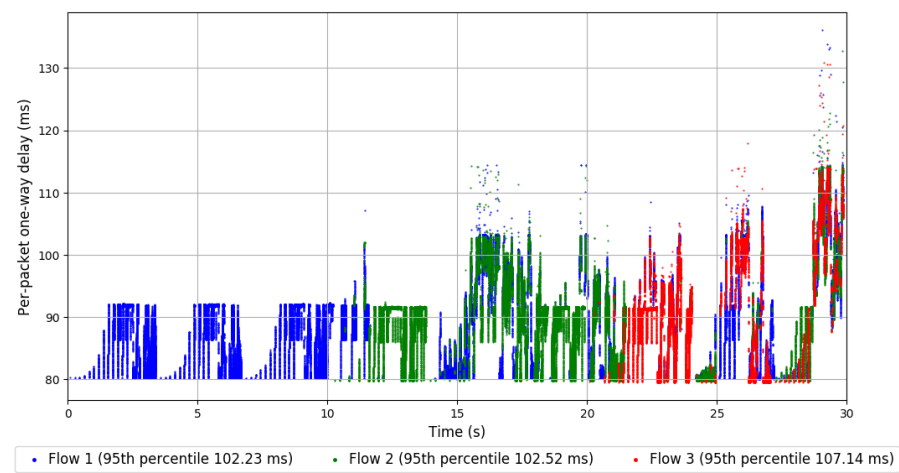
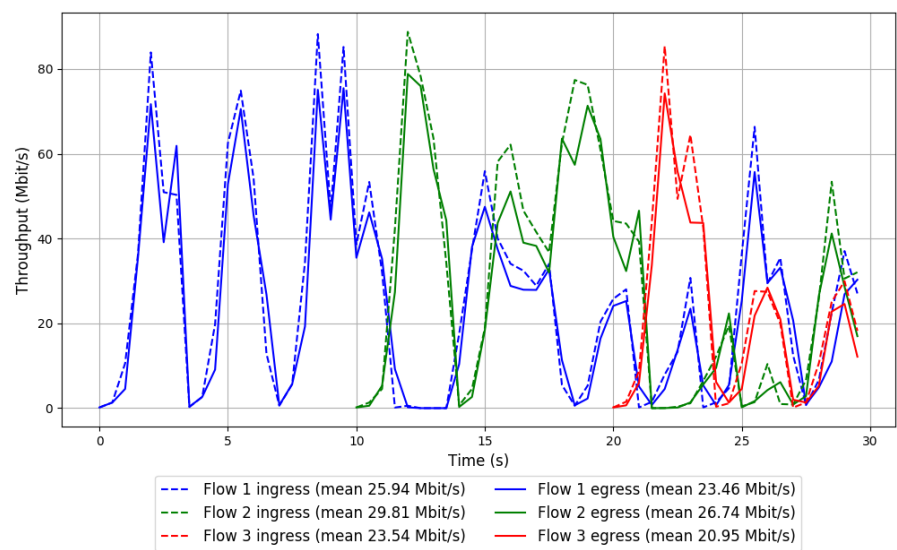


Run 7: Statistics of Verus

Start at: 2018-04-10 20:41:28
End at: 2018-04-10 20:41:58
Local clock offset: -5.636 ms
Remote clock offset: 7.939 ms

Below is generated by plot.py at 2018-04-11 02:25:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 48.07 Mbit/s
95th percentile per-packet one-way delay: 102.689 ms
Loss rate: 10.58%
-- Flow 1:
Average throughput: 23.46 Mbit/s
95th percentile per-packet one-way delay: 102.230 ms
Loss rate: 9.61%
-- Flow 2:
Average throughput: 26.74 Mbit/s
95th percentile per-packet one-way delay: 102.518 ms
Loss rate: 11.04%
-- Flow 3:
Average throughput: 20.95 Mbit/s
95th percentile per-packet one-way delay: 107.140 ms
Loss rate: 12.63%

Run 7: Report of Verus — Data Link

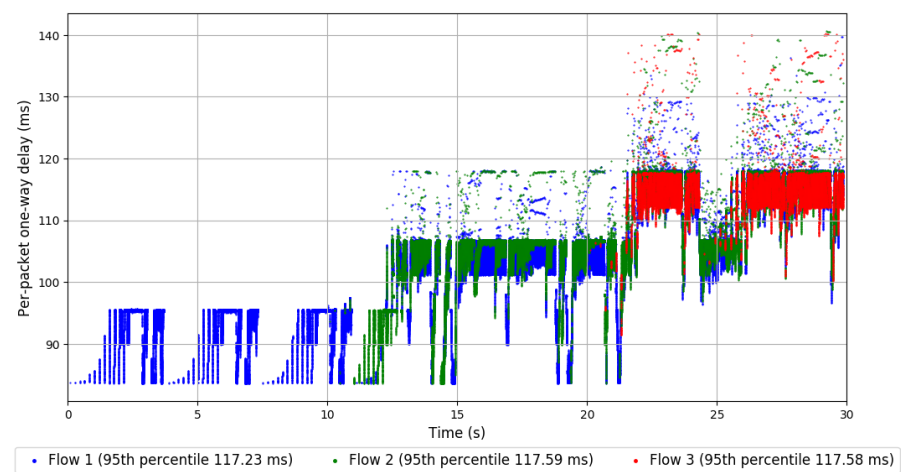
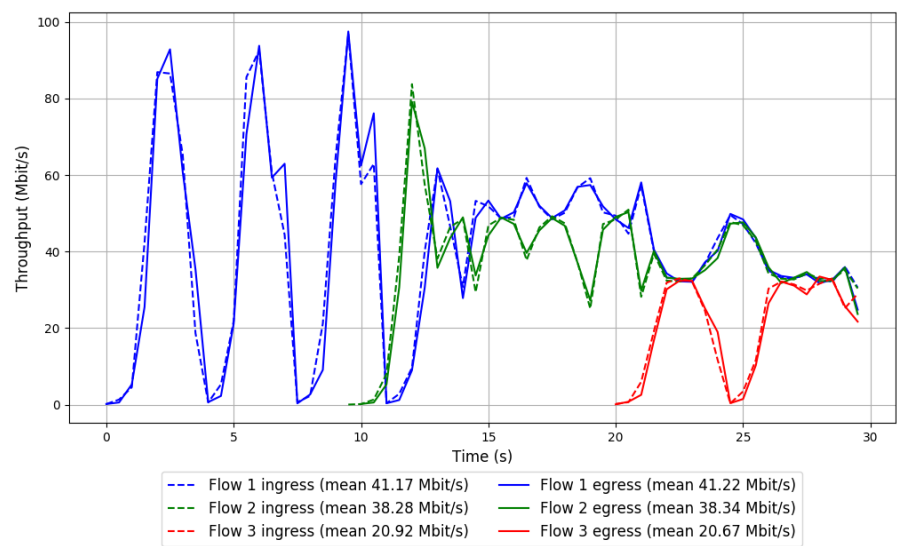


Run 8: Statistics of Verus

Start at: 2018-04-10 21:05:40
End at: 2018-04-10 21:06:10
Local clock offset: -6.562 ms
Remote clock offset: 2.015 ms

Below is generated by plot.py at 2018-04-11 02:26:11
Datalink statistics
-- Total of 3 flows:
Average throughput: 73.43 Mbit/s
95th percentile per-packet one-way delay: 117.496 ms
Loss rate: 0.94%
-- Flow 1:
Average throughput: 41.22 Mbit/s
95th percentile per-packet one-way delay: 117.227 ms
Loss rate: 0.54%
-- Flow 2:
Average throughput: 38.34 Mbit/s
95th percentile per-packet one-way delay: 117.589 ms
Loss rate: 0.95%
-- Flow 3:
Average throughput: 20.67 Mbit/s
95th percentile per-packet one-way delay: 117.577 ms
Loss rate: 3.31%

Run 8: Report of Verus — Data Link

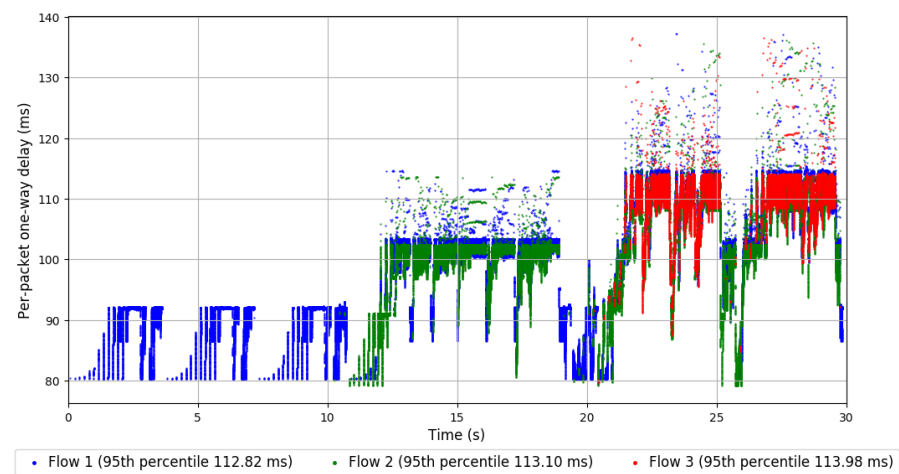
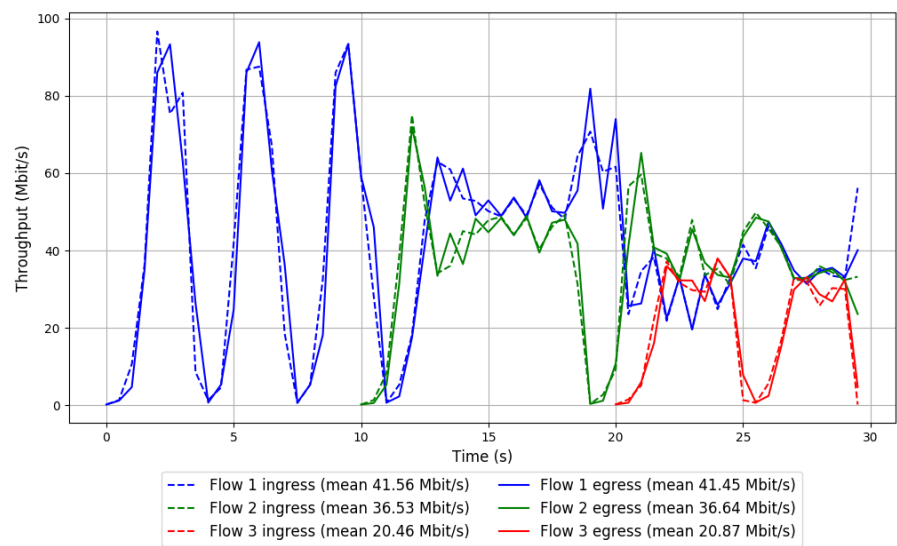


Run 9: Statistics of Verus

Start at: 2018-04-10 21:29:42
End at: 2018-04-10 21:30:12
Local clock offset: -6.233 ms
Remote clock offset: 7.314 ms

Below is generated by plot.py at 2018-04-11 02:26:12
Datalink statistics
-- Total of 3 flows:
Average throughput: 72.43 Mbit/s
95th percentile per-packet one-way delay: 113.388 ms
Loss rate: 0.93%
-- Flow 1:
Average throughput: 41.45 Mbit/s
95th percentile per-packet one-way delay: 112.818 ms
Loss rate: 0.91%
-- Flow 2:
Average throughput: 36.64 Mbit/s
95th percentile per-packet one-way delay: 113.098 ms
Loss rate: 1.21%
-- Flow 3:
Average throughput: 20.87 Mbit/s
95th percentile per-packet one-way delay: 113.982 ms
Loss rate: 0.03%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-04-10 21:53:55

End at: 2018-04-10 21:54:25

Local clock offset: -5.64 ms

Remote clock offset: 2.348 ms

Below is generated by plot.py at 2018-04-11 02:26:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 67.84 Mbit/s

95th percentile per-packet one-way delay: 115.851 ms

Loss rate: 0.89%

-- Flow 1:

Average throughput: 36.17 Mbit/s

95th percentile per-packet one-way delay: 113.360 ms

Loss rate: 0.89%

-- Flow 2:

Average throughput: 30.19 Mbit/s

95th percentile per-packet one-way delay: 116.375 ms

Loss rate: 0.52%

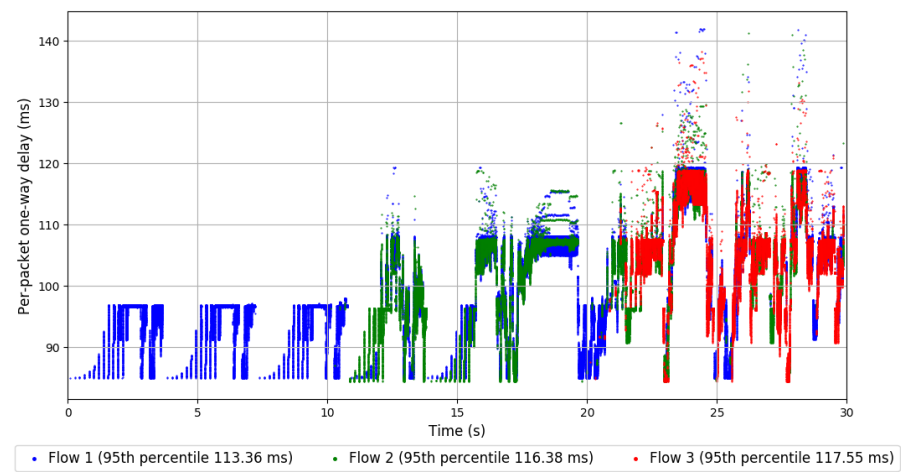
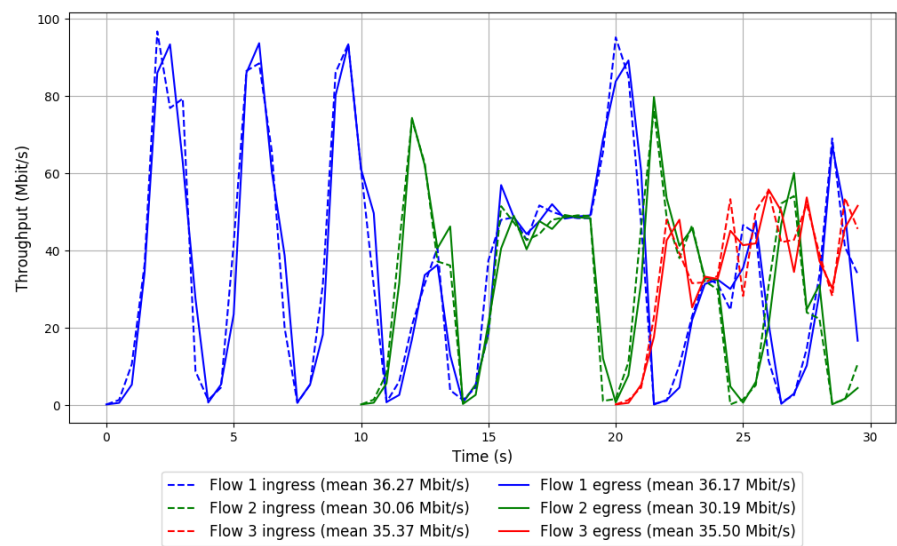
-- Flow 3:

Average throughput: 35.50 Mbit/s

95th percentile per-packet one-way delay: 117.548 ms

Loss rate: 1.54%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2018-04-10 18:31:11

End at: 2018-04-10 18:31:41

Local clock offset: -6.292 ms

Remote clock offset: 4.157 ms

Below is generated by plot.py at 2018-04-11 02:27:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 90.17 Mbit/s

95th percentile per-packet one-way delay: 105.985 ms

Loss rate: 0.71%

-- Flow 1:

Average throughput: 69.01 Mbit/s

95th percentile per-packet one-way delay: 104.688 ms

Loss rate: 0.60%

-- Flow 2:

Average throughput: 23.37 Mbit/s

95th percentile per-packet one-way delay: 106.252 ms

Loss rate: 0.74%

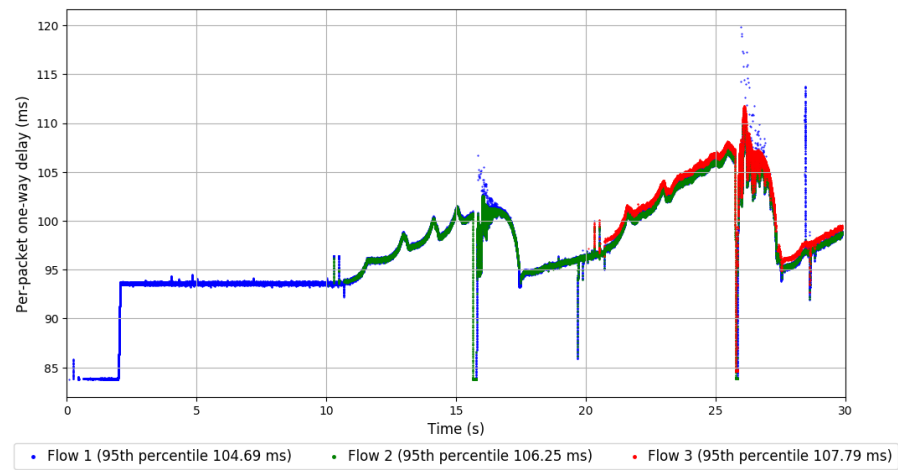
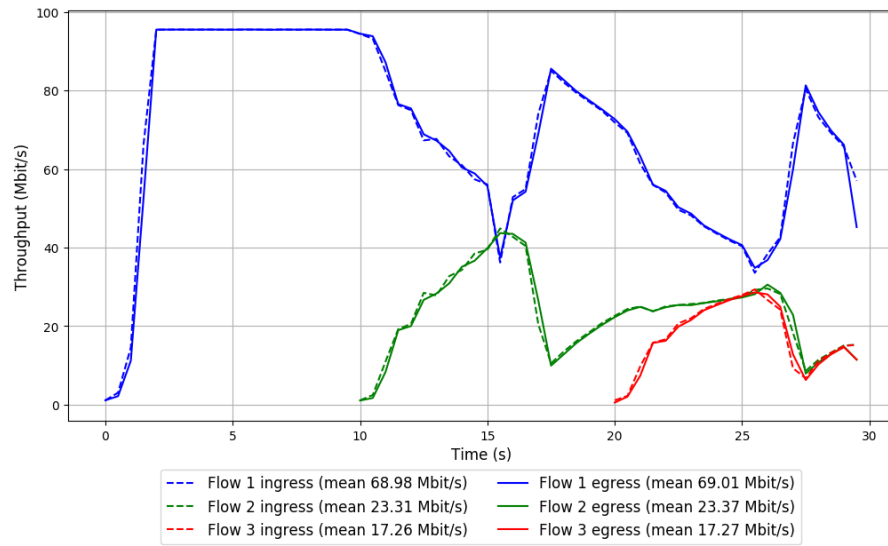
-- Flow 3:

Average throughput: 17.27 Mbit/s

95th percentile per-packet one-way delay: 107.791 ms

Loss rate: 1.99%

Run 1: Report of Copa — Data Link

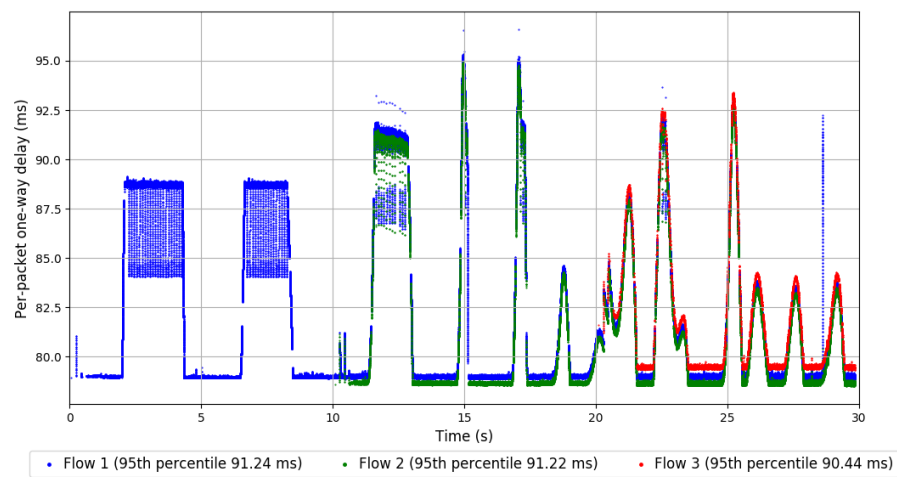
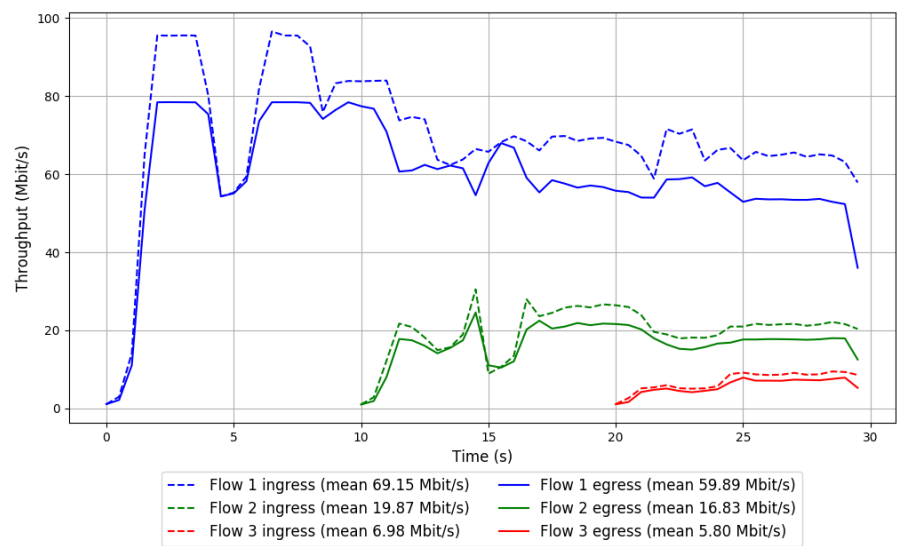


Run 2: Statistics of Copa

Start at: 2018-04-10 18:55:19
End at: 2018-04-10 18:55:49
Local clock offset: -6.241 ms
Remote clock offset: 8.902 ms

Below is generated by plot.py at 2018-04-11 02:27:40
Datalink statistics
-- Total of 3 flows:
Average throughput: 72.97 Mbit/s
95th percentile per-packet one-way delay: 91.232 ms
Loss rate: 14.40%
-- Flow 1:
Average throughput: 59.89 Mbit/s
95th percentile per-packet one-way delay: 91.236 ms
Loss rate: 13.93%
-- Flow 2:
Average throughput: 16.83 Mbit/s
95th percentile per-packet one-way delay: 91.219 ms
Loss rate: 16.09%
-- Flow 3:
Average throughput: 5.80 Mbit/s
95th percentile per-packet one-way delay: 90.436 ms
Loss rate: 18.56%

Run 2: Report of Copa — Data Link

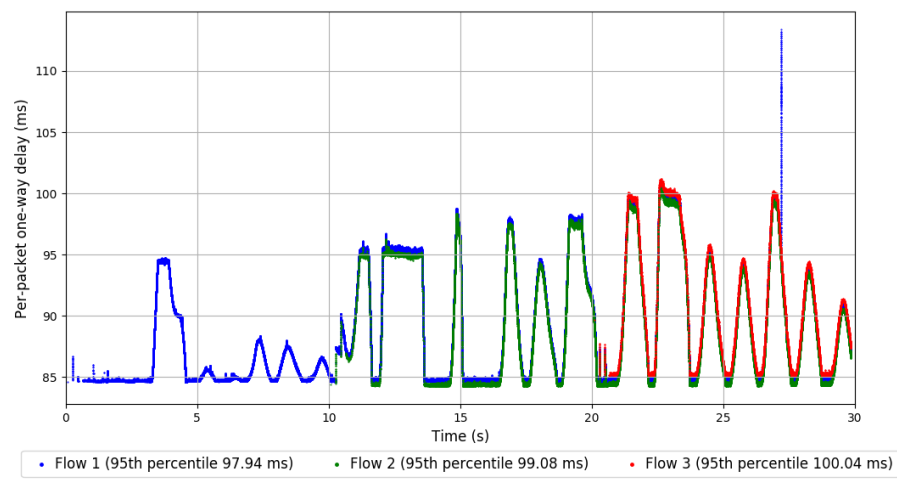
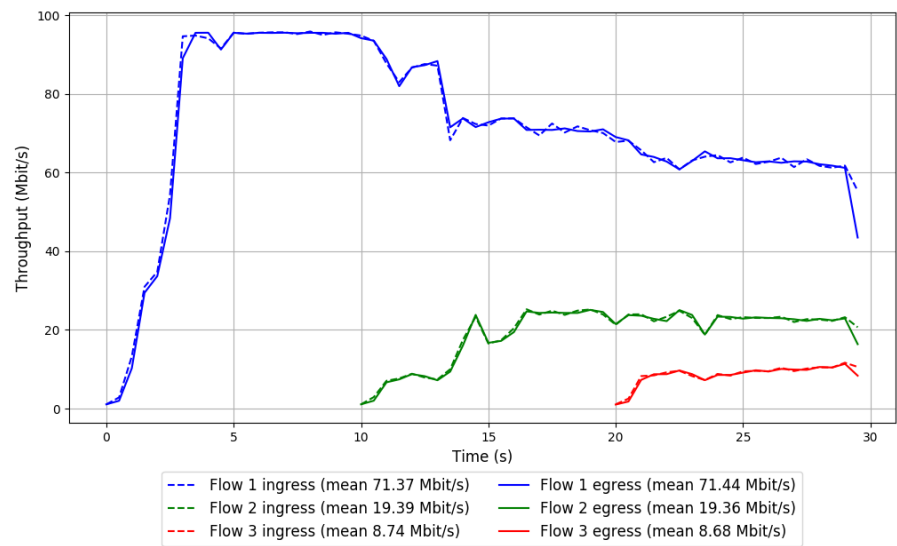


Run 3: Statistics of Copa

Start at: 2018-04-10 19:19:30
End at: 2018-04-10 19:20:00
Local clock offset: -5.414 ms
Remote clock offset: 2.41 ms

Below is generated by plot.py at 2018-04-11 02:28:07
Datalink statistics
-- Total of 3 flows:
Average throughput: 87.14 Mbit/s
95th percentile per-packet one-way delay: 98.729 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 71.44 Mbit/s
95th percentile per-packet one-way delay: 97.938 ms
Loss rate: 0.54%
-- Flow 2:
Average throughput: 19.36 Mbit/s
95th percentile per-packet one-way delay: 99.075 ms
Loss rate: 1.09%
-- Flow 3:
Average throughput: 8.68 Mbit/s
95th percentile per-packet one-way delay: 100.040 ms
Loss rate: 2.52%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-04-10 19:43:27

End at: 2018-04-10 19:43:57

Local clock offset: -5.067 ms

Remote clock offset: 7.738 ms

Below is generated by plot.py at 2018-04-11 02:28:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.50 Mbit/s

95th percentile per-packet one-way delay: 101.852 ms

Loss rate: 0.76%

-- Flow 1:

Average throughput: 71.68 Mbit/s

95th percentile per-packet one-way delay: 99.537 ms

Loss rate: 0.46%

-- Flow 2:

Average throughput: 14.11 Mbit/s

95th percentile per-packet one-way delay: 103.109 ms

Loss rate: 1.74%

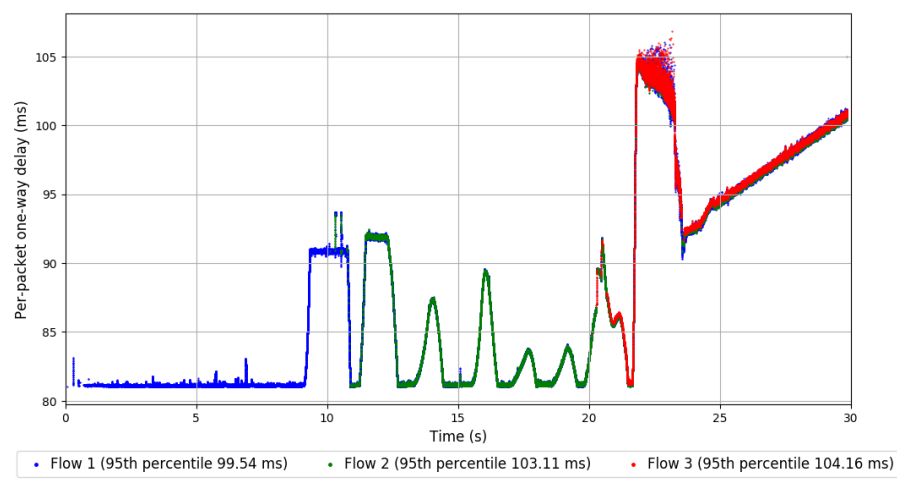
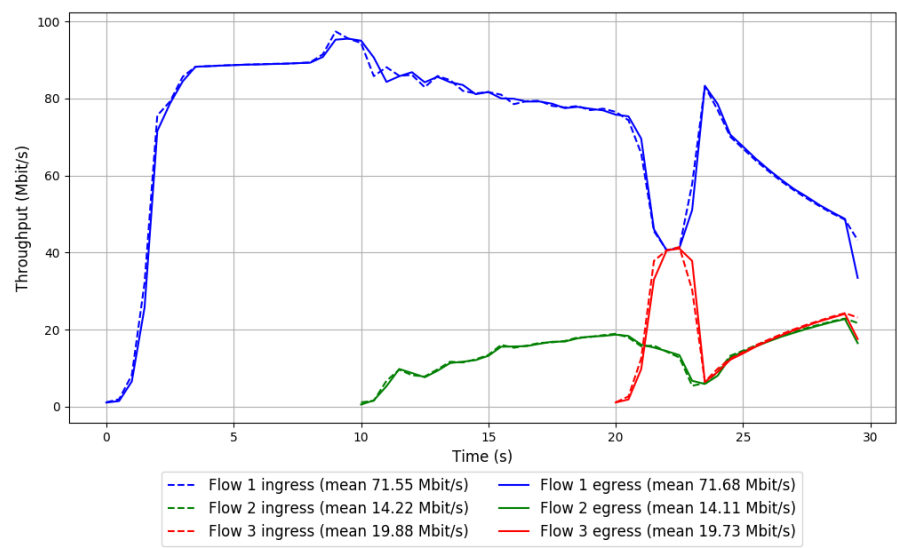
-- Flow 3:

Average throughput: 19.73 Mbit/s

95th percentile per-packet one-way delay: 104.157 ms

Loss rate: 2.67%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-04-10 20:07:57

End at: 2018-04-10 20:08:27

Local clock offset: -5.837 ms

Remote clock offset: 3.672 ms

Below is generated by plot.py at 2018-04-11 02:28:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.97 Mbit/s

95th percentile per-packet one-way delay: 97.957 ms

Loss rate: 0.69%

-- Flow 1:

Average throughput: 73.51 Mbit/s

95th percentile per-packet one-way delay: 97.845 ms

Loss rate: 0.51%

-- Flow 2:

Average throughput: 18.29 Mbit/s

95th percentile per-packet one-way delay: 98.279 ms

Loss rate: 1.08%

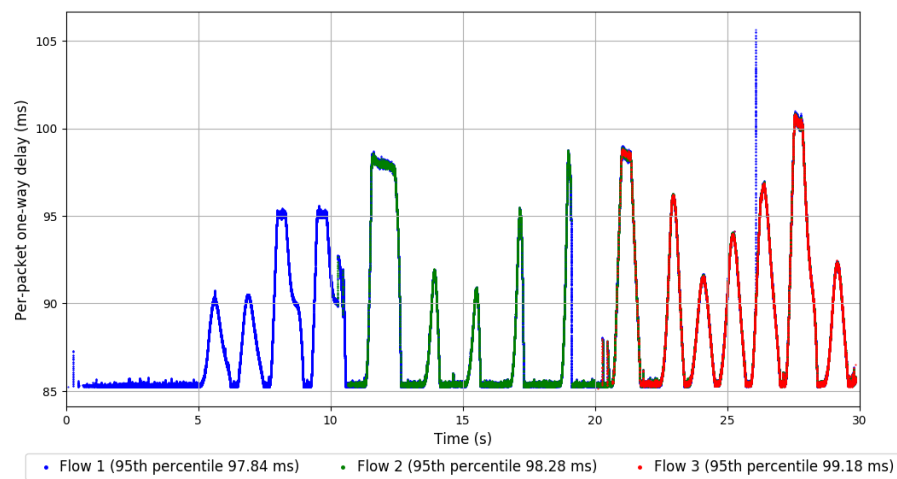
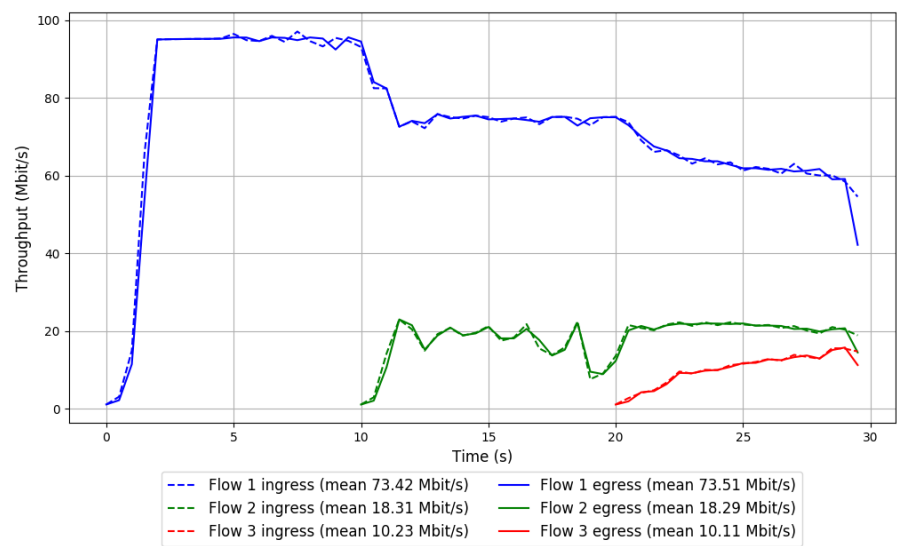
-- Flow 3:

Average throughput: 10.11 Mbit/s

95th percentile per-packet one-way delay: 99.180 ms

Loss rate: 3.02%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-04-10 20:32:02

End at: 2018-04-10 20:32:32

Local clock offset: -5.77 ms

Remote clock offset: 4.289 ms

Below is generated by plot.py at 2018-04-11 02:28:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.04 Mbit/s

95th percentile per-packet one-way delay: 96.900 ms

Loss rate: 0.70%

-- Flow 1:

Average throughput: 70.58 Mbit/s

95th percentile per-packet one-way delay: 96.334 ms

Loss rate: 0.53%

-- Flow 2:

Average throughput: 17.86 Mbit/s

95th percentile per-packet one-way delay: 98.494 ms

Loss rate: 1.16%

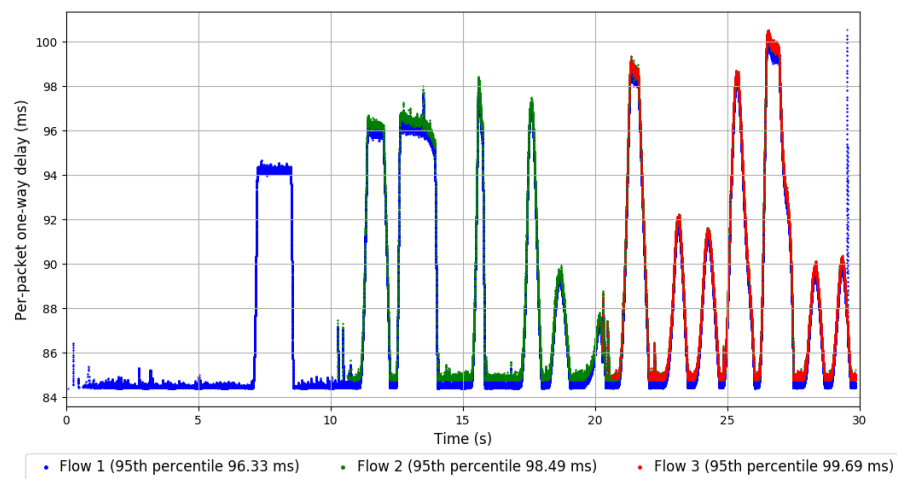
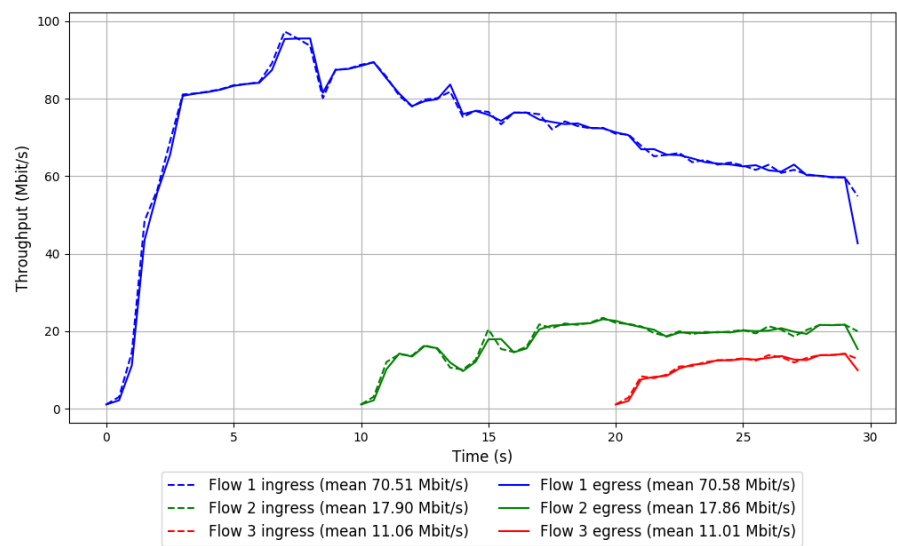
-- Flow 3:

Average throughput: 11.01 Mbit/s

95th percentile per-packet one-way delay: 99.693 ms

Loss rate: 2.42%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-04-10 20:56:06

End at: 2018-04-10 20:56:36

Local clock offset: -5.419 ms

Remote clock offset: 2.168 ms

Below is generated by plot.py at 2018-04-11 02:28:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.77 Mbit/s

95th percentile per-packet one-way delay: 96.553 ms

Loss rate: 0.70%

-- Flow 1:

Average throughput: 67.83 Mbit/s

95th percentile per-packet one-way delay: 96.502 ms

Loss rate: 0.42%

-- Flow 2:

Average throughput: 25.14 Mbit/s

95th percentile per-packet one-way delay: 97.008 ms

Loss rate: 1.31%

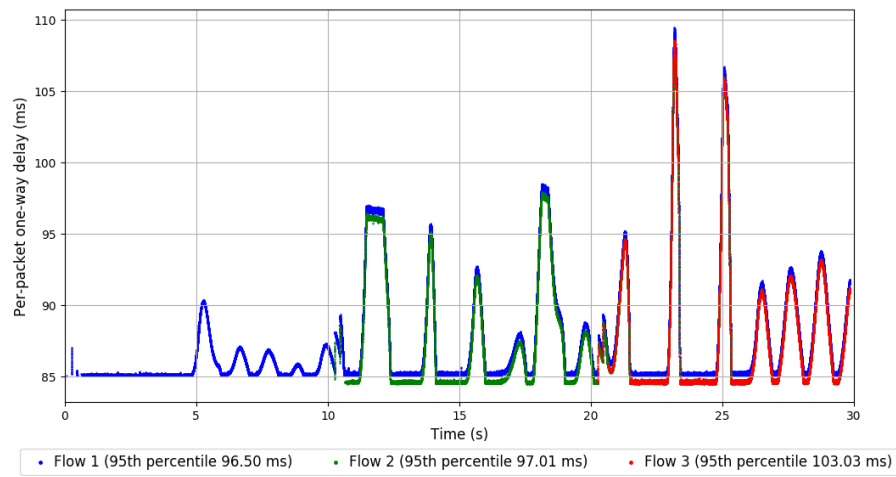
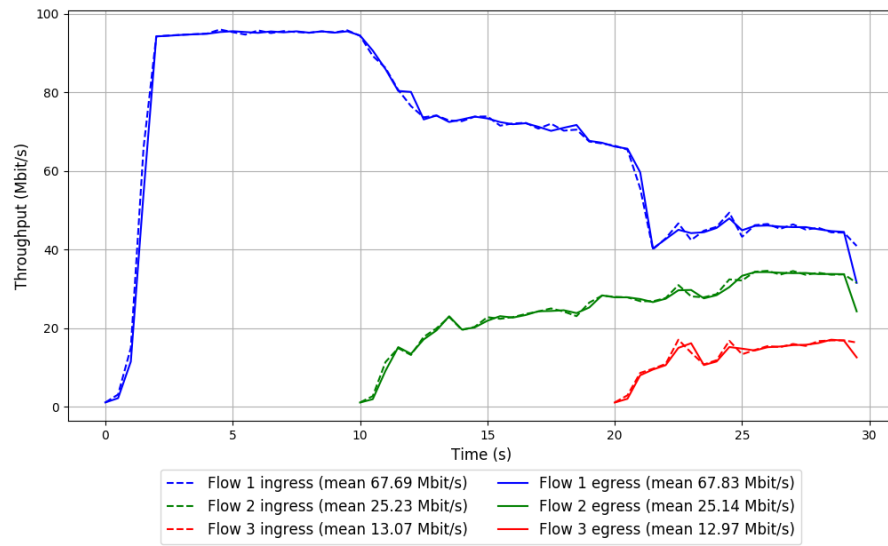
-- Flow 3:

Average throughput: 12.97 Mbit/s

95th percentile per-packet one-way delay: 103.025 ms

Loss rate: 2.61%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-04-10 21:20:16

End at: 2018-04-10 21:20:46

Local clock offset: -6.085 ms

Remote clock offset: 7.167 ms

Below is generated by plot.py at 2018-04-11 02:28:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.99 Mbit/s

95th percentile per-packet one-way delay: 91.831 ms

Loss rate: 0.70%

-- Flow 1:

Average throughput: 70.70 Mbit/s

95th percentile per-packet one-way delay: 91.746 ms

Loss rate: 0.53%

-- Flow 2:

Average throughput: 22.09 Mbit/s

95th percentile per-packet one-way delay: 93.064 ms

Loss rate: 1.05%

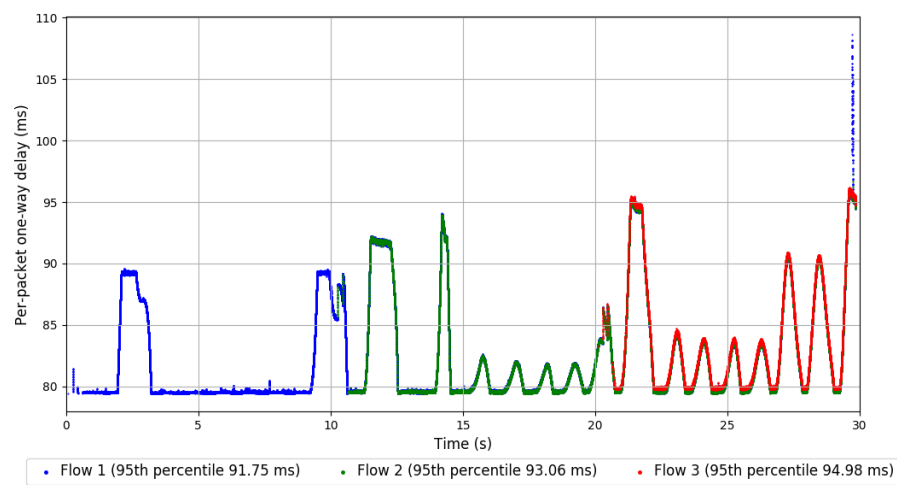
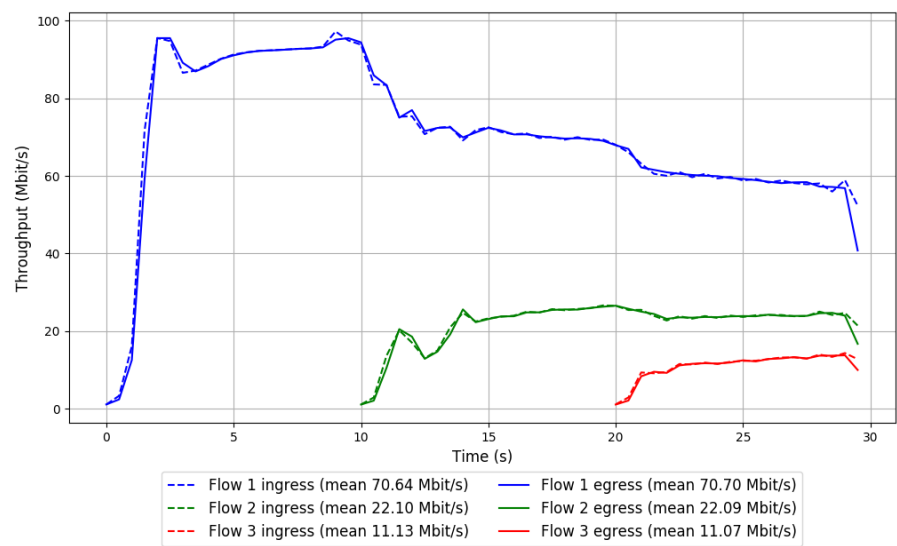
-- Flow 3:

Average throughput: 11.07 Mbit/s

95th percentile per-packet one-way delay: 94.980 ms

Loss rate: 2.48%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-04-10 21:44:31

End at: 2018-04-10 21:45:01

Local clock offset: -6.503 ms

Remote clock offset: 2.461 ms

Below is generated by plot.py at 2018-04-11 02:30:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.64 Mbit/s

95th percentile per-packet one-way delay: 97.199 ms

Loss rate: 0.70%

-- Flow 1:

Average throughput: 76.66 Mbit/s

95th percentile per-packet one-way delay: 96.855 ms

Loss rate: 0.57%

-- Flow 2:

Average throughput: 13.29 Mbit/s

95th percentile per-packet one-way delay: 98.322 ms

Loss rate: 0.98%

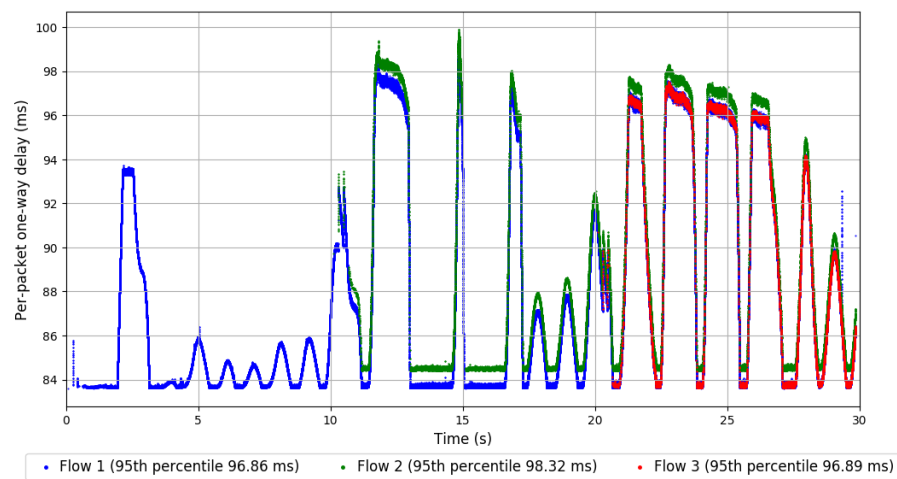
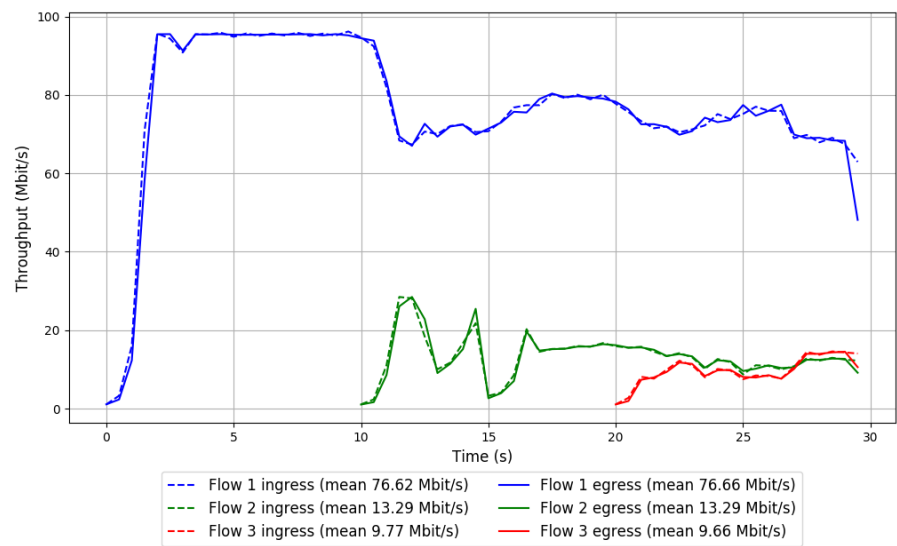
-- Flow 3:

Average throughput: 9.66 Mbit/s

95th percentile per-packet one-way delay: 96.892 ms

Loss rate: 3.04%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-04-10 22:08:23

End at: 2018-04-10 22:08:53

Local clock offset: -4.781 ms

Remote clock offset: 7.088 ms

Below is generated by plot.py at 2018-04-11 02:30:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.96 Mbit/s

95th percentile per-packet one-way delay: 95.050 ms

Loss rate: 0.71%

-- Flow 1:

Average throughput: 64.81 Mbit/s

95th percentile per-packet one-way delay: 94.674 ms

Loss rate: 0.52%

-- Flow 2:

Average throughput: 27.65 Mbit/s

95th percentile per-packet one-way delay: 96.038 ms

Loss rate: 0.96%

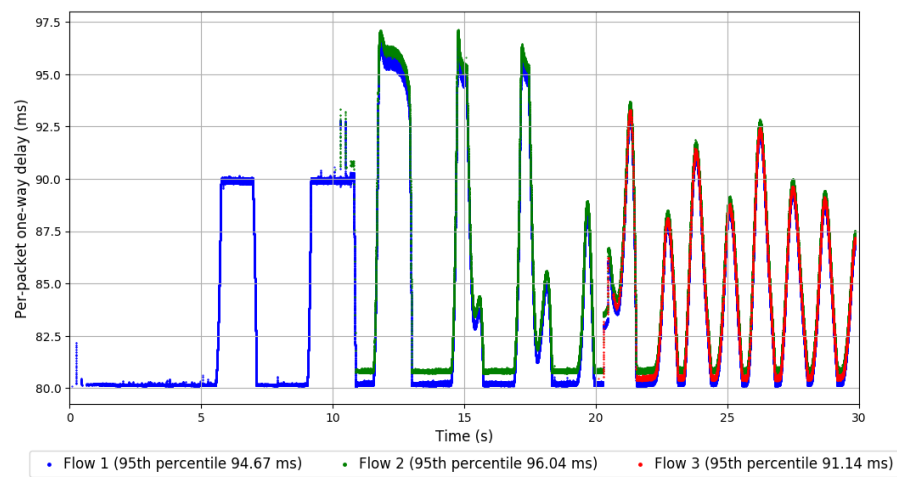
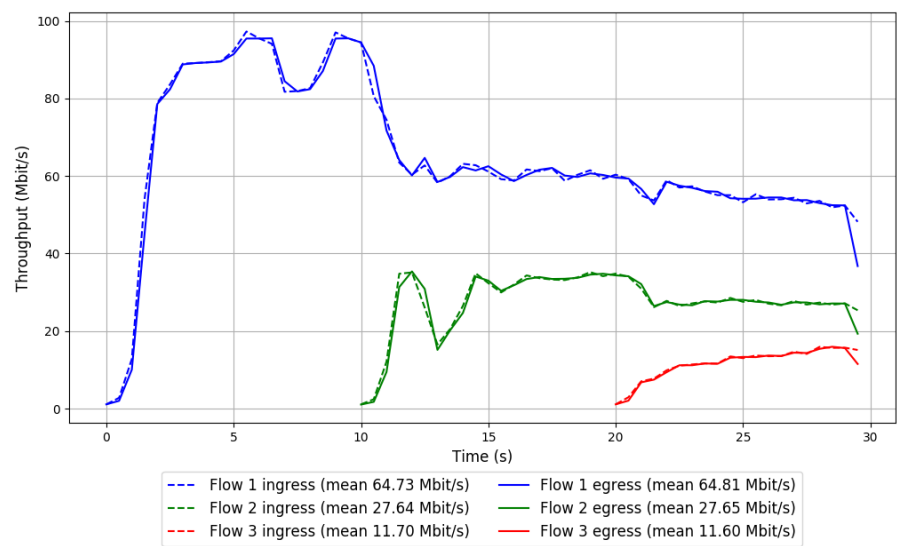
-- Flow 3:

Average throughput: 11.60 Mbit/s

95th percentile per-packet one-way delay: 91.137 ms

Loss rate: 2.70%

Run 10: Report of Copa — Data Link



Run 1: Statistics of FillP

Start at: 2018-04-10 18:24:34

End at: 2018-04-10 18:25:04

Local clock offset: -4.771 ms

Remote clock offset: 3.806 ms

Below is generated by plot.py at 2018-04-11 02:30:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.35 Mbit/s

95th percentile per-packet one-way delay: 115.044 ms

Loss rate: 2.82%

-- Flow 1:

Average throughput: 56.56 Mbit/s

95th percentile per-packet one-way delay: 113.340 ms

Loss rate: 0.48%

-- Flow 2:

Average throughput: 38.35 Mbit/s

95th percentile per-packet one-way delay: 115.539 ms

Loss rate: 4.85%

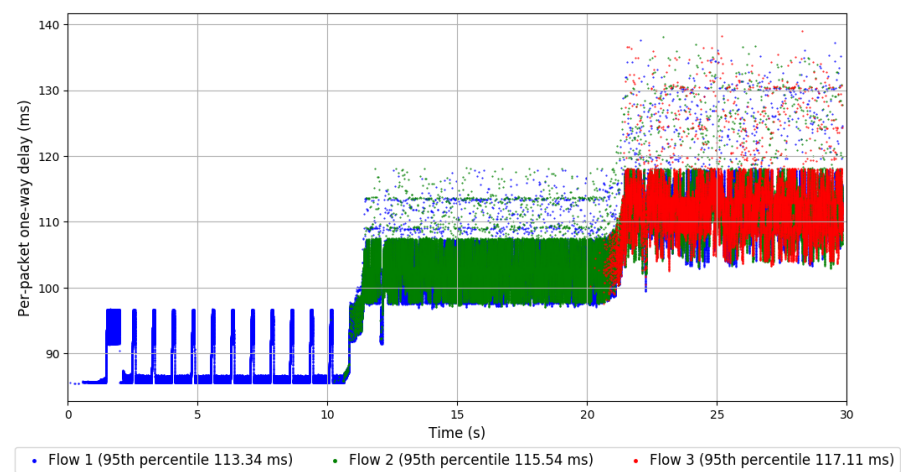
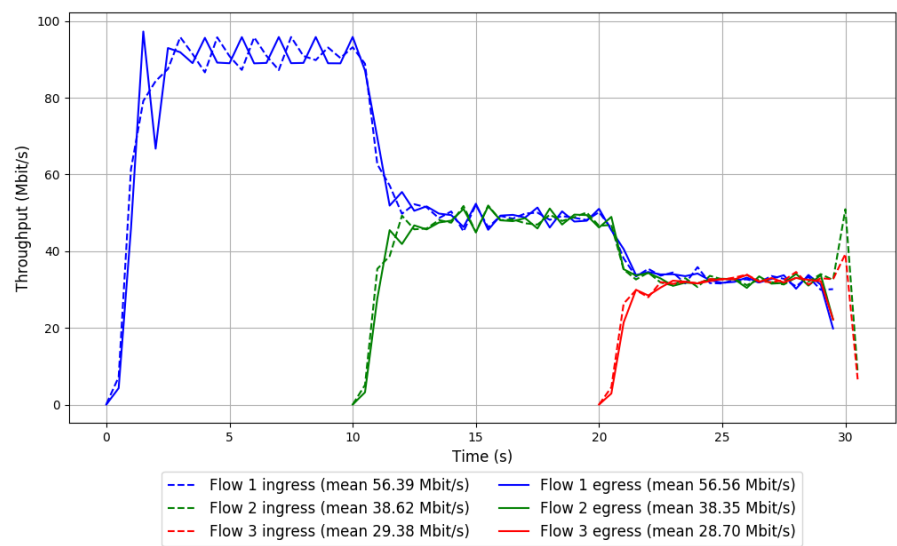
-- Flow 3:

Average throughput: 28.70 Mbit/s

95th percentile per-packet one-way delay: 117.108 ms

Loss rate: 10.38%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-04-10 18:48:44

End at: 2018-04-10 18:49:14

Local clock offset: -5.495 ms

Remote clock offset: 9.766 ms

Below is generated by plot.py at 2018-04-11 02:30:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.86 Mbit/s

95th percentile per-packet one-way delay: 109.186 ms

Loss rate: 3.66%

-- Flow 1:

Average throughput: 56.93 Mbit/s

95th percentile per-packet one-way delay: 106.954 ms

Loss rate: 2.87%

-- Flow 2:

Average throughput: 38.27 Mbit/s

95th percentile per-packet one-way delay: 109.528 ms

Loss rate: 0.96%

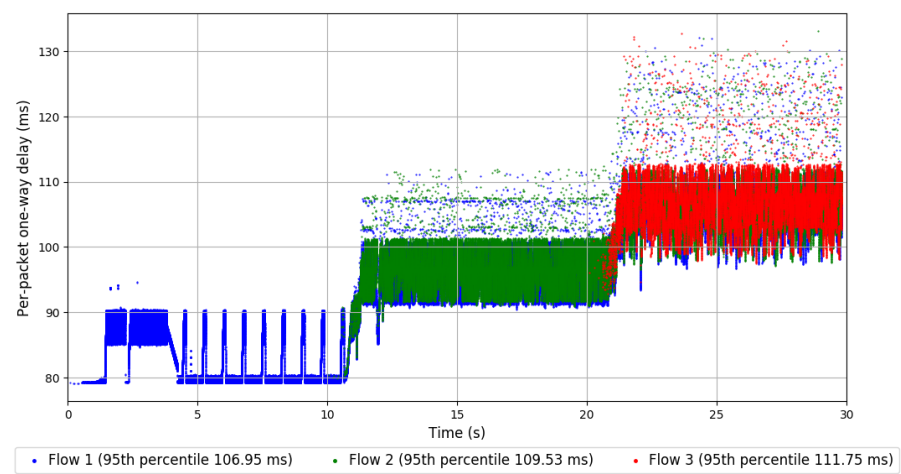
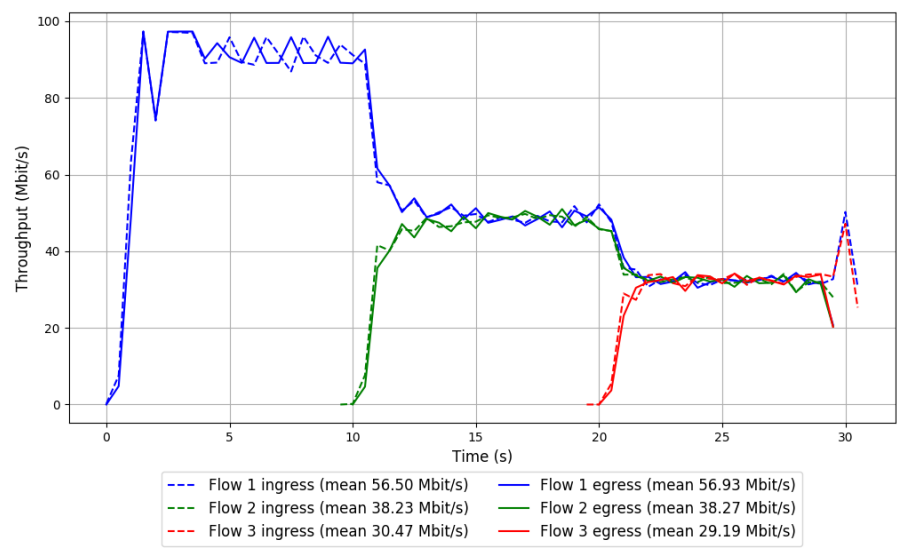
-- Flow 3:

Average throughput: 29.19 Mbit/s

95th percentile per-packet one-way delay: 111.753 ms

Loss rate: 14.06%

Run 2: Report of FillP — Data Link

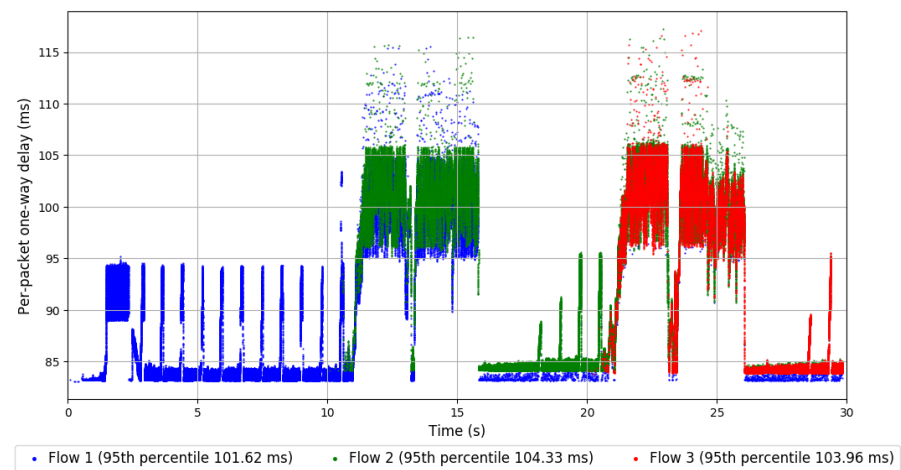
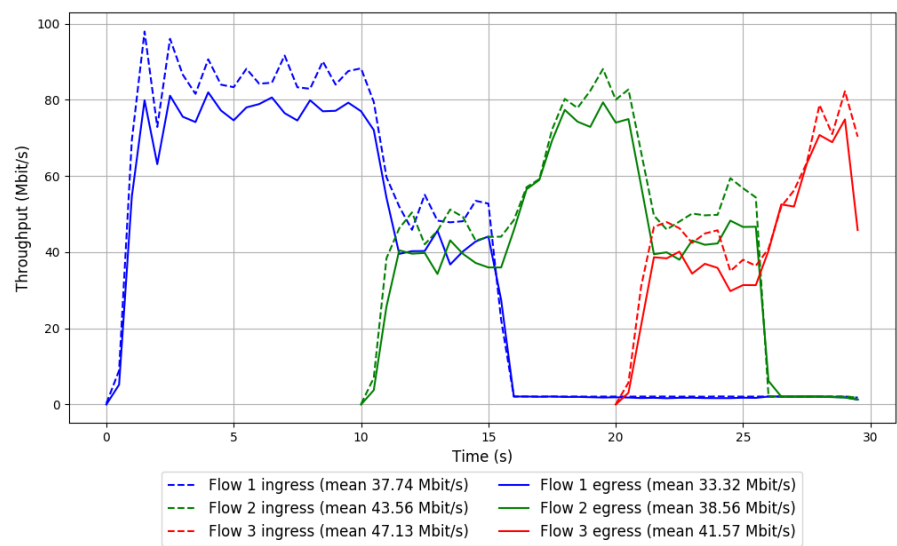


Run 3: Statistics of FillP

Start at: 2018-04-10 19:12:54
End at: 2018-04-10 19:13:24
Local clock offset: -6.187 ms
Remote clock offset: 2.675 ms

Below is generated by plot.py at 2018-04-11 02:30:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 72.51 Mbit/s
95th percentile per-packet one-way delay: 103.439 ms
Loss rate: 12.51%
-- Flow 1:
Average throughput: 33.32 Mbit/s
95th percentile per-packet one-way delay: 101.618 ms
Loss rate: 12.25%
-- Flow 2:
Average throughput: 38.56 Mbit/s
95th percentile per-packet one-way delay: 104.328 ms
Loss rate: 12.32%
-- Flow 3:
Average throughput: 41.57 Mbit/s
95th percentile per-packet one-way delay: 103.959 ms
Loss rate: 13.46%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-04-10 19:36:46

End at: 2018-04-10 19:37:16

Local clock offset: -5.785 ms

Remote clock offset: 7.573 ms

Below is generated by plot.py at 2018-04-11 02:30:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.46 Mbit/s

95th percentile per-packet one-way delay: 109.150 ms

Loss rate: 2.98%

-- Flow 1:

Average throughput: 56.37 Mbit/s

95th percentile per-packet one-way delay: 107.907 ms

Loss rate: 0.49%

-- Flow 2:

Average throughput: 38.65 Mbit/s

95th percentile per-packet one-way delay: 109.180 ms

Loss rate: 4.75%

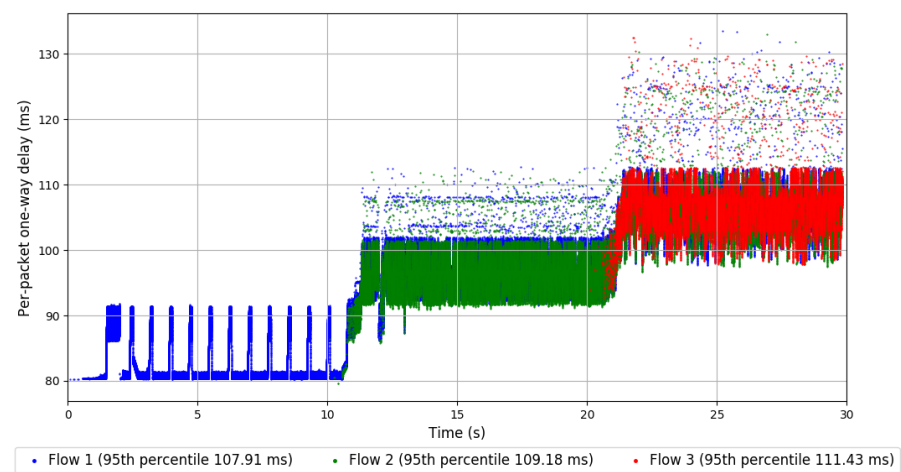
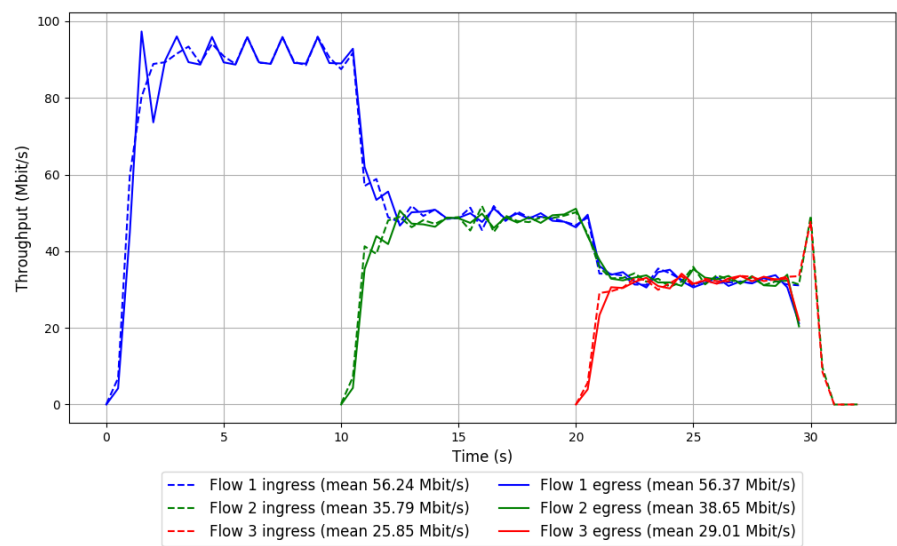
-- Flow 3:

Average throughput: 29.01 Mbit/s

95th percentile per-packet one-way delay: 111.432 ms

Loss rate: 11.72%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-04-10 20:01:15

End at: 2018-04-10 20:01:45

Local clock offset: -6.671 ms

Remote clock offset: 3.337 ms

Below is generated by plot.py at 2018-04-11 02:30:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.40 Mbit/s

95th percentile per-packet one-way delay: 113.251 ms

Loss rate: 4.56%

-- Flow 1:

Average throughput: 56.28 Mbit/s

95th percentile per-packet one-way delay: 111.726 ms

Loss rate: 0.51%

-- Flow 2:

Average throughput: 38.78 Mbit/s

95th percentile per-packet one-way delay: 113.621 ms

Loss rate: 7.80%

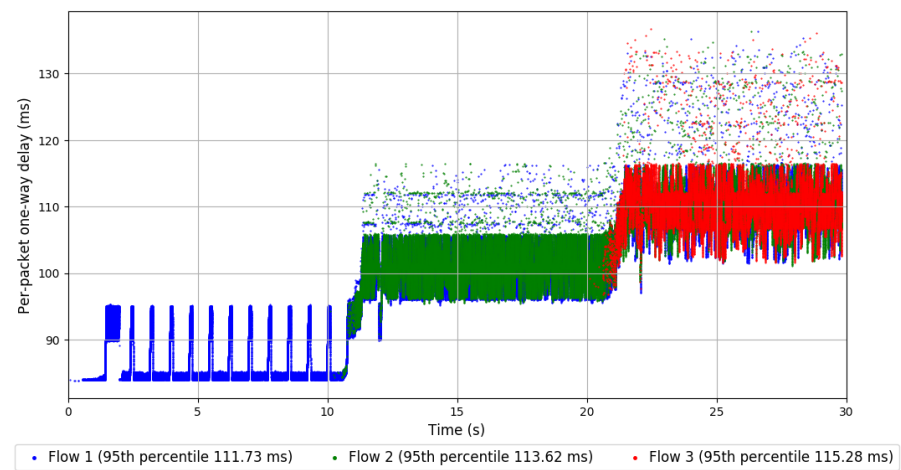
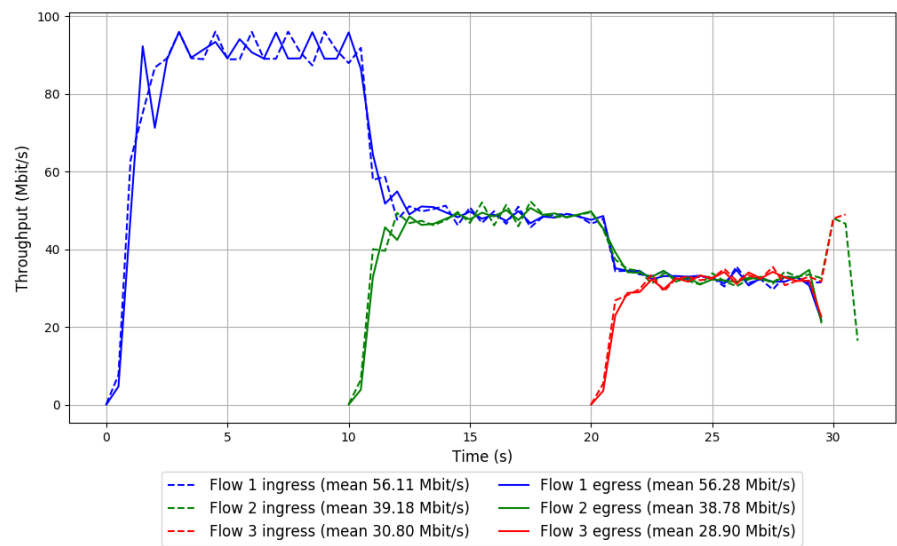
-- Flow 3:

Average throughput: 28.90 Mbit/s

95th percentile per-packet one-way delay: 115.284 ms

Loss rate: 16.83%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-04-10 20:25:20

End at: 2018-04-10 20:25:50

Local clock offset: -6.628 ms

Remote clock offset: 4.173 ms

Below is generated by plot.py at 2018-04-11 02:30:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 73.70 Mbit/s

95th percentile per-packet one-way delay: 104.074 ms

Loss rate: 12.56%

-- Flow 1:

Average throughput: 31.45 Mbit/s

95th percentile per-packet one-way delay: 103.563 ms

Loss rate: 11.19%

-- Flow 2:

Average throughput: 37.96 Mbit/s

95th percentile per-packet one-way delay: 104.263 ms

Loss rate: 12.22%

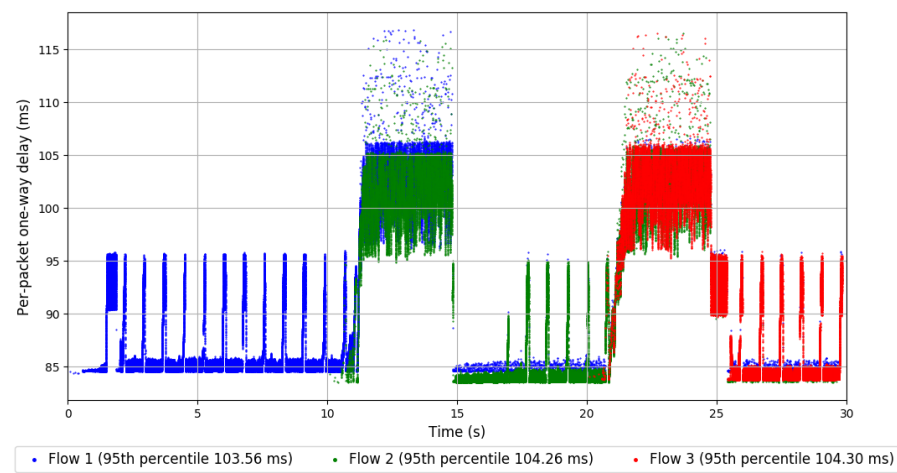
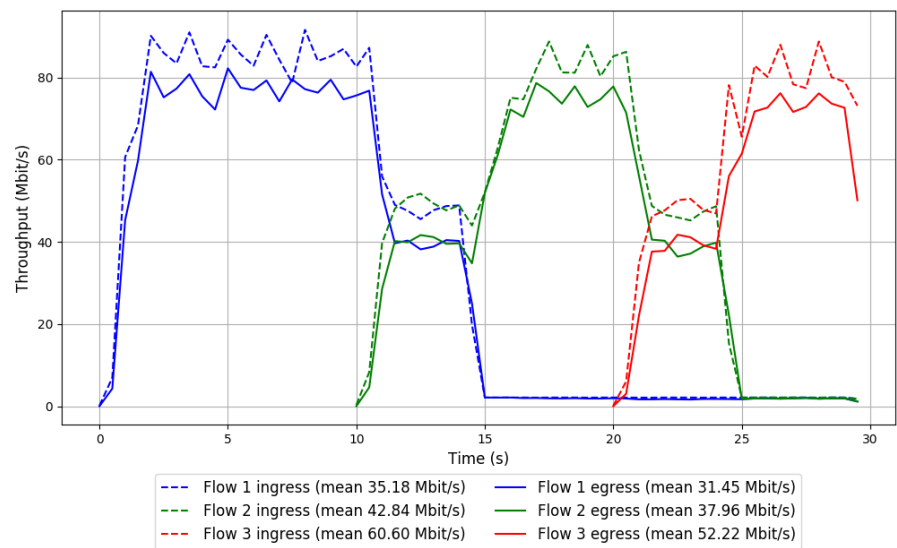
-- Flow 3:

Average throughput: 52.22 Mbit/s

95th percentile per-packet one-way delay: 104.296 ms

Loss rate: 15.46%

Run 6: Report of FillP — Data Link

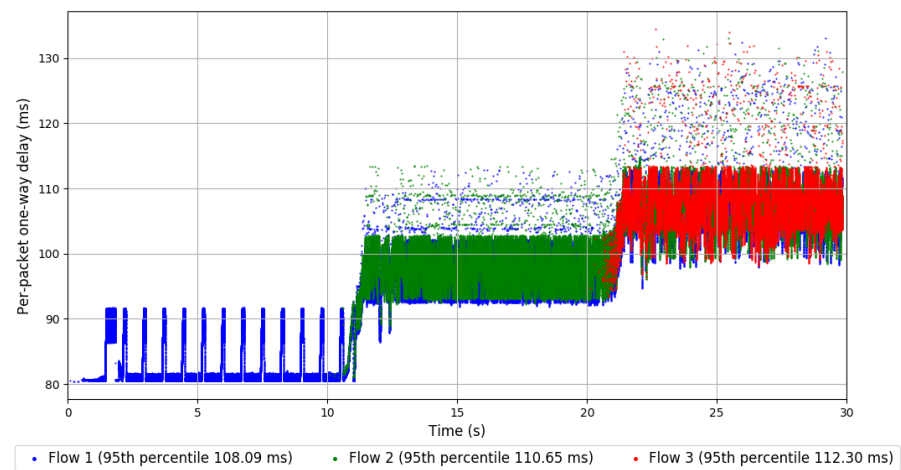
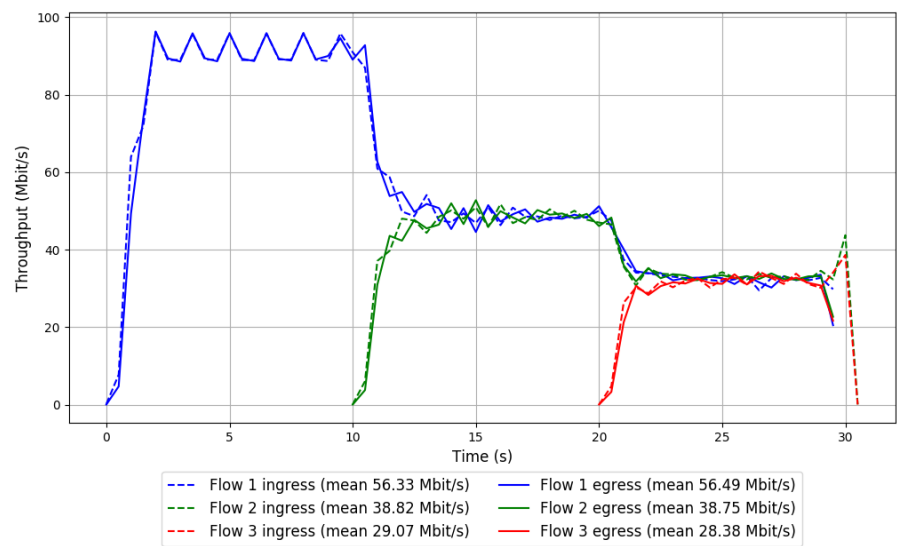


Run 7: Statistics of FillP

Start at: 2018-04-10 20:49:27
End at: 2018-04-10 20:49:57
Local clock offset: -4.717 ms
Remote clock offset: 7.415 ms

Below is generated by plot.py at 2018-04-11 02:31:12
Datalink statistics
-- Total of 3 flows:
Average throughput: 91.43 Mbit/s
95th percentile per-packet one-way delay: 110.110 ms
Loss rate: 2.40%
-- Flow 1:
Average throughput: 56.49 Mbit/s
95th percentile per-packet one-way delay: 108.087 ms
Loss rate: 0.45%
-- Flow 2:
Average throughput: 38.75 Mbit/s
95th percentile per-packet one-way delay: 110.649 ms
Loss rate: 3.85%
-- Flow 3:
Average throughput: 28.38 Mbit/s
95th percentile per-packet one-way delay: 112.300 ms
Loss rate: 9.47%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-04-10 21:13:39

End at: 2018-04-10 21:14:09

Local clock offset: -6.735 ms

Remote clock offset: 2.259 ms

Below is generated by plot.py at 2018-04-11 02:31:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.48 Mbit/s

95th percentile per-packet one-way delay: 113.370 ms

Loss rate: 1.74%

-- Flow 1:

Average throughput: 56.55 Mbit/s

95th percentile per-packet one-way delay: 112.221 ms

Loss rate: 0.48%

-- Flow 2:

Average throughput: 38.69 Mbit/s

95th percentile per-packet one-way delay: 113.594 ms

Loss rate: 3.27%

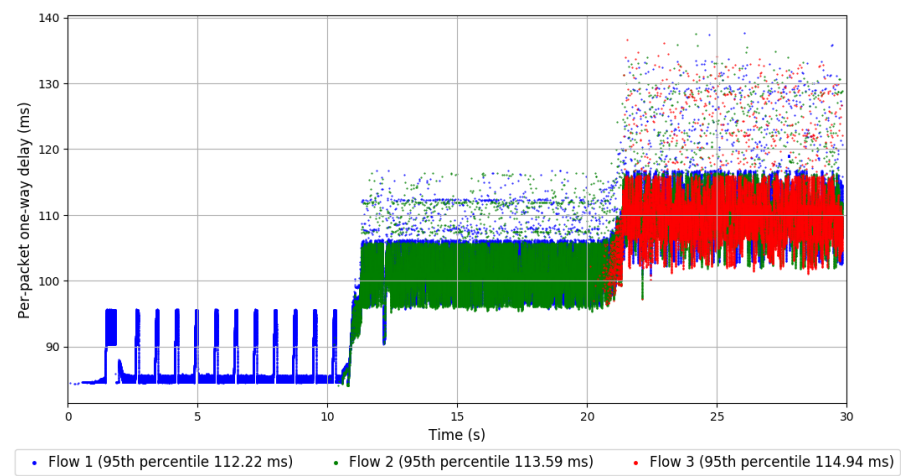
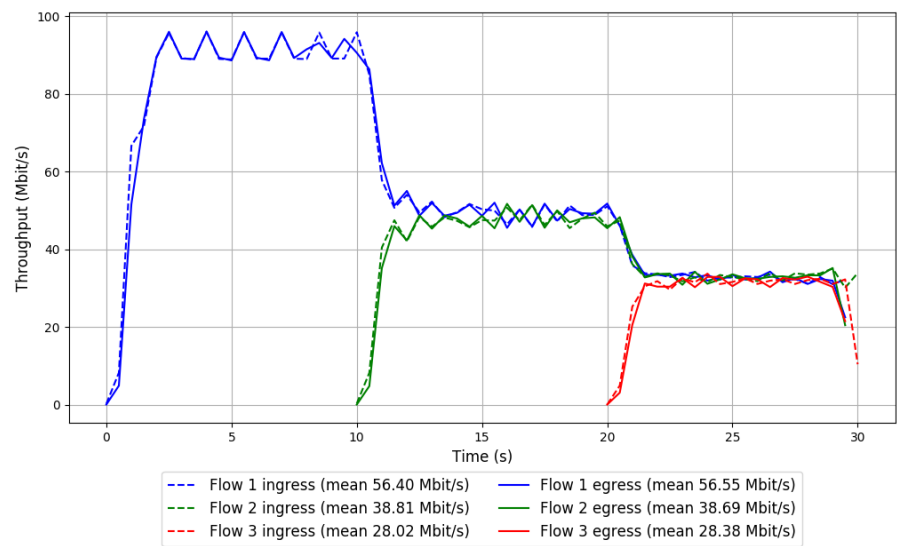
-- Flow 3:

Average throughput: 28.38 Mbit/s

95th percentile per-packet one-way delay: 114.943 ms

Loss rate: 4.91%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-04-10 21:37:39

End at: 2018-04-10 21:38:09

Local clock offset: -6.124 ms

Remote clock offset: 7.324 ms

Below is generated by plot.py at 2018-04-11 02:31:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.54 Mbit/s

95th percentile per-packet one-way delay: 109.138 ms

Loss rate: 7.86%

-- Flow 1:

Average throughput: 55.15 Mbit/s

95th percentile per-packet one-way delay: 107.718 ms

Loss rate: 2.03%

-- Flow 2:

Average throughput: 37.22 Mbit/s

95th percentile per-packet one-way delay: 109.713 ms

Loss rate: 13.59%

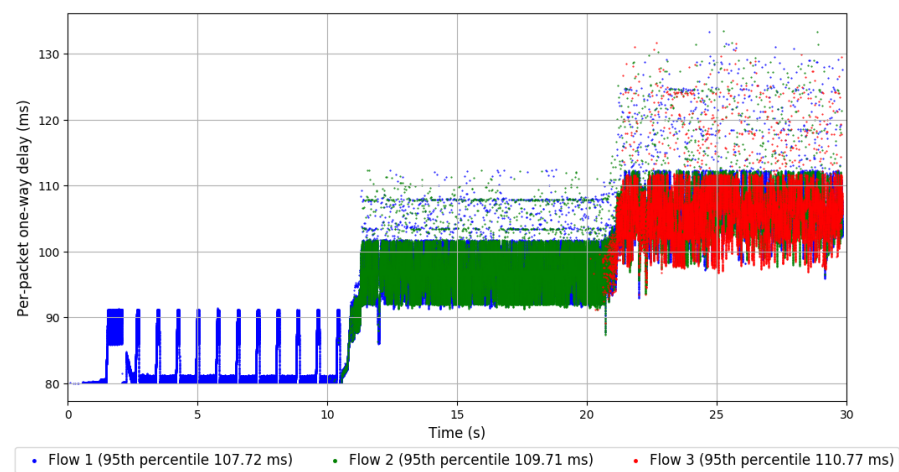
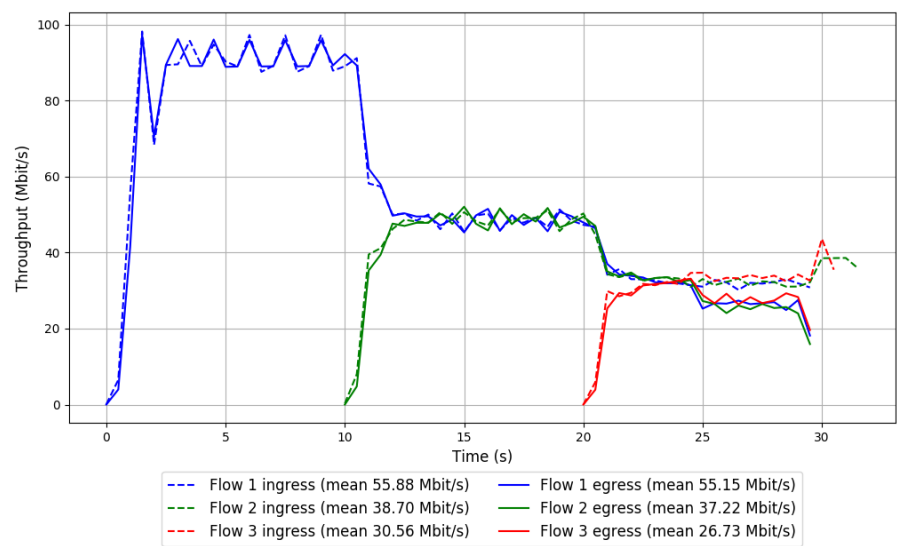
-- Flow 3:

Average throughput: 26.73 Mbit/s

95th percentile per-packet one-way delay: 110.769 ms

Loss rate: 22.47%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-04-10 22:01:48

End at: 2018-04-10 22:02:18

Local clock offset: -5.548 ms

Remote clock offset: 7.093 ms

Below is generated by plot.py at 2018-04-11 02:31:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.37 Mbit/s

95th percentile per-packet one-way delay: 109.312 ms

Loss rate: 2.82%

-- Flow 1:

Average throughput: 56.33 Mbit/s

95th percentile per-packet one-way delay: 107.260 ms

Loss rate: 0.48%

-- Flow 2:

Average throughput: 38.74 Mbit/s

95th percentile per-packet one-way delay: 109.913 ms

Loss rate: 4.38%

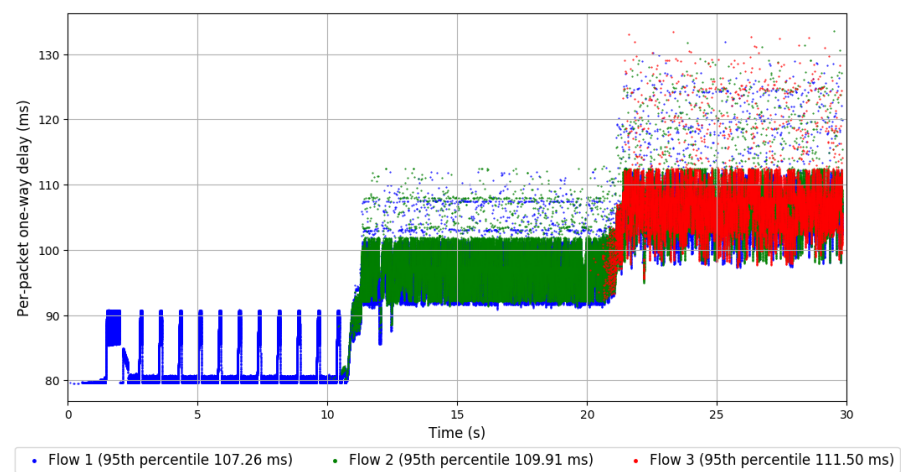
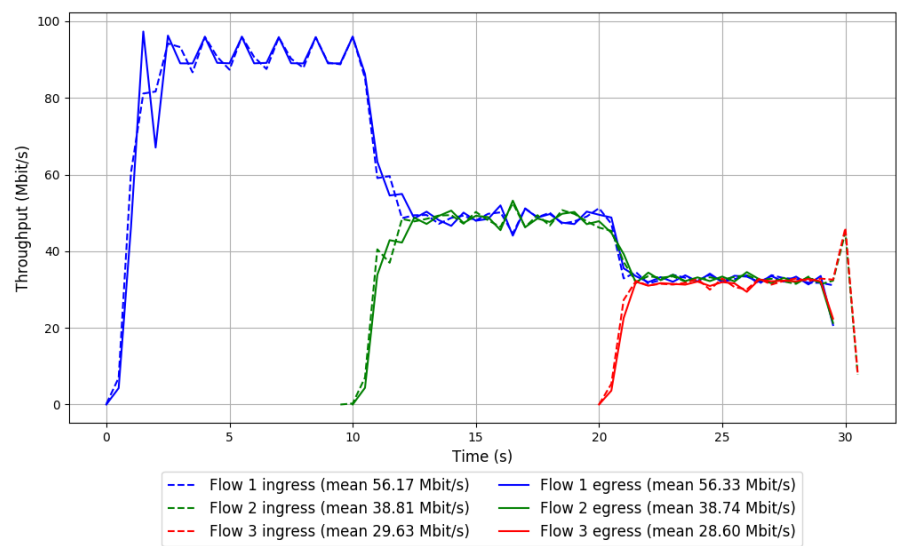
-- Flow 3:

Average throughput: 28.60 Mbit/s

95th percentile per-packet one-way delay: 111.497 ms

Loss rate: 11.44%

Run 10: Report of FillP — Data Link

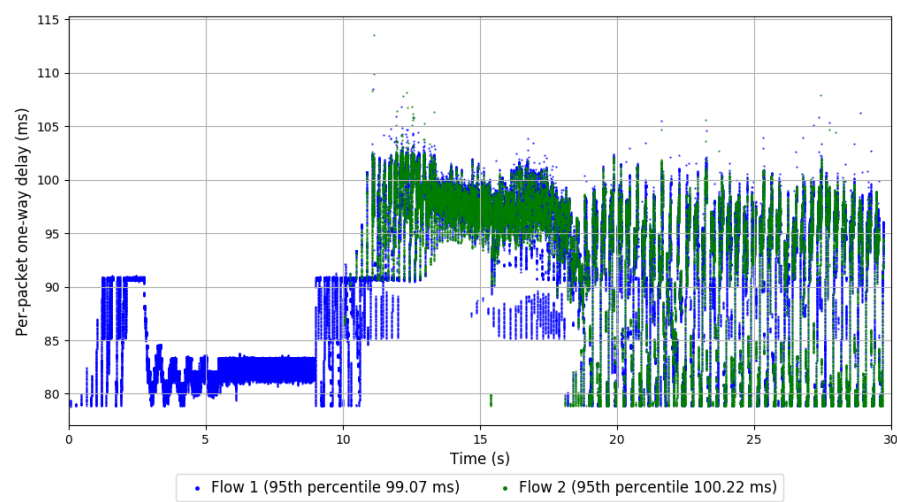
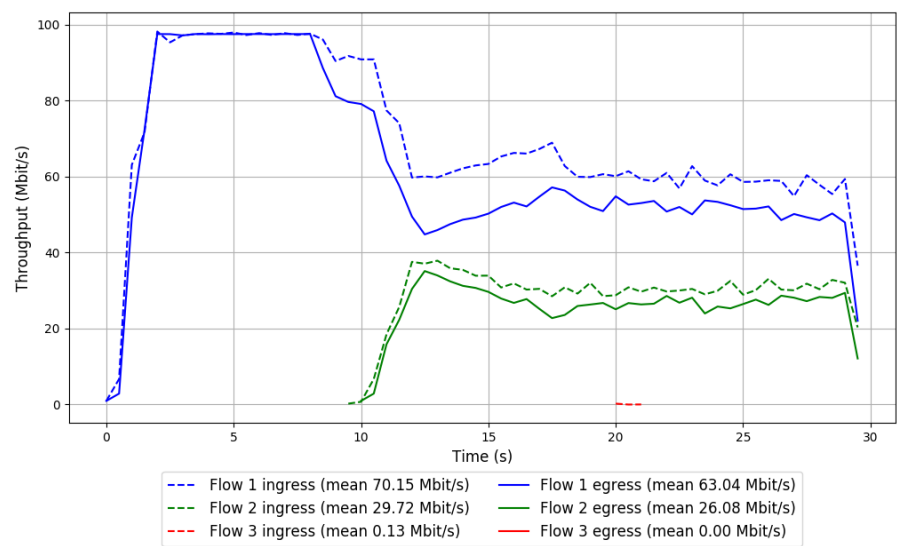


```
Run 1: Statistics of Indigo-1-32

Start at: 2018-04-10 18:21:56
End at: 2018-04-10 18:22:26
Local clock offset: -6.351 ms
Remote clock offset: 8.399 ms

# Below is generated by plot.py at 2018-04-11 02:31:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 80.32 Mbit/s
95th percentile per-packet one-way delay: 99.324 ms
Loss rate: 11.20%
-- Flow 1:
Average throughput: 63.04 Mbit/s
95th percentile per-packet one-way delay: 99.068 ms
Loss rate: 10.67%
-- Flow 2:
Average throughput: 26.08 Mbit/s
95th percentile per-packet one-way delay: 100.218 ms
Loss rate: 13.05%
-- Flow 3:
Average throughput: 0.00 Mbit/s
```

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



Run 2: Statistics of Indigo-1-32

Start at: 2018-04-10 18:46:06

End at: 2018-04-10 18:46:36

Local clock offset: -5.505 ms

Remote clock offset: 4.862 ms

Below is generated by plot.py at 2018-04-11 02:31:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.72 Mbit/s

95th percentile per-packet one-way delay: 118.415 ms

Loss rate: 0.76%

-- Flow 1:

Average throughput: 63.09 Mbit/s

95th percentile per-packet one-way delay: 117.314 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 30.15 Mbit/s

95th percentile per-packet one-way delay: 118.375 ms

Loss rate: 1.08%

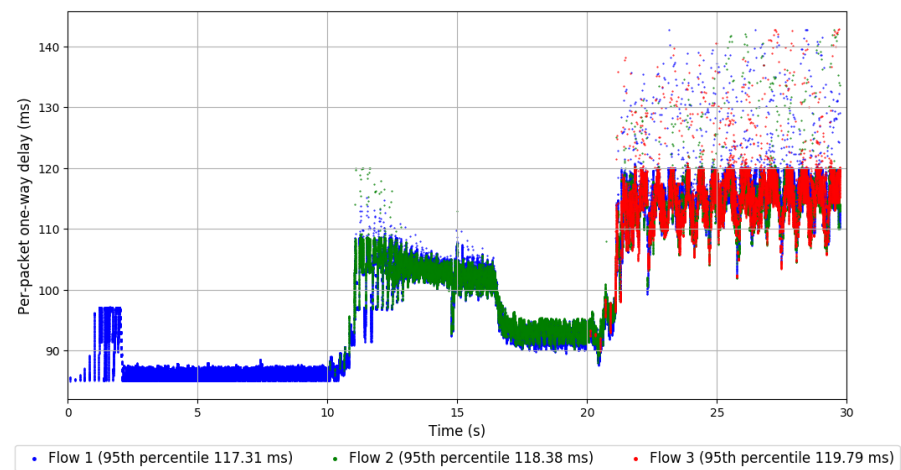
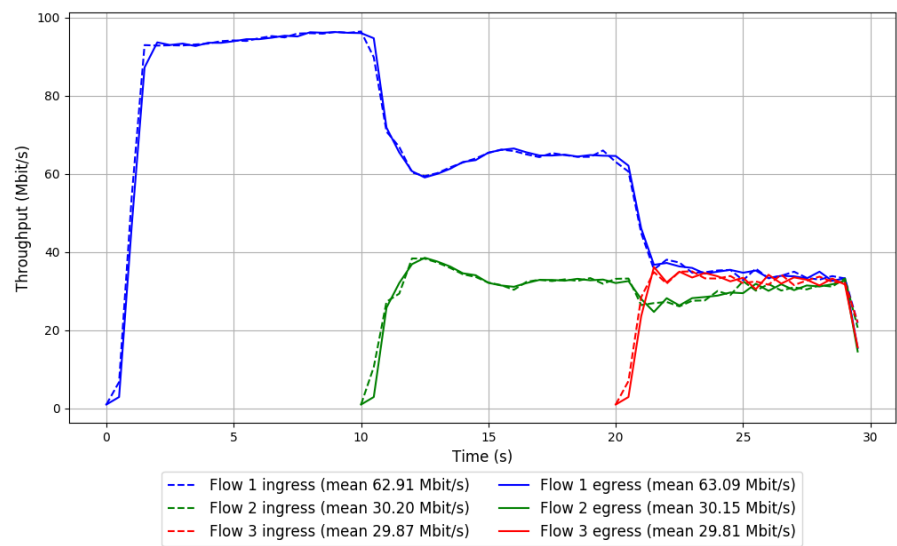
-- Flow 3:

Average throughput: 29.81 Mbit/s

95th percentile per-packet one-way delay: 119.794 ms

Loss rate: 2.50%

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



Run 3: Statistics of Indigo-1-32

Start at: 2018-04-10 19:10:15

End at: 2018-04-10 19:10:45

Local clock offset: -4.625 ms

Remote clock offset: 2.719 ms

Below is generated by plot.py at 2018-04-11 02:31:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.81 Mbit/s

95th percentile per-packet one-way delay: 119.143 ms

Loss rate: 0.74%

-- Flow 1:

Average throughput: 59.30 Mbit/s

95th percentile per-packet one-way delay: 117.902 ms

Loss rate: 0.45%

-- Flow 2:

Average throughput: 39.21 Mbit/s

95th percentile per-packet one-way delay: 119.364 ms

Loss rate: 0.92%

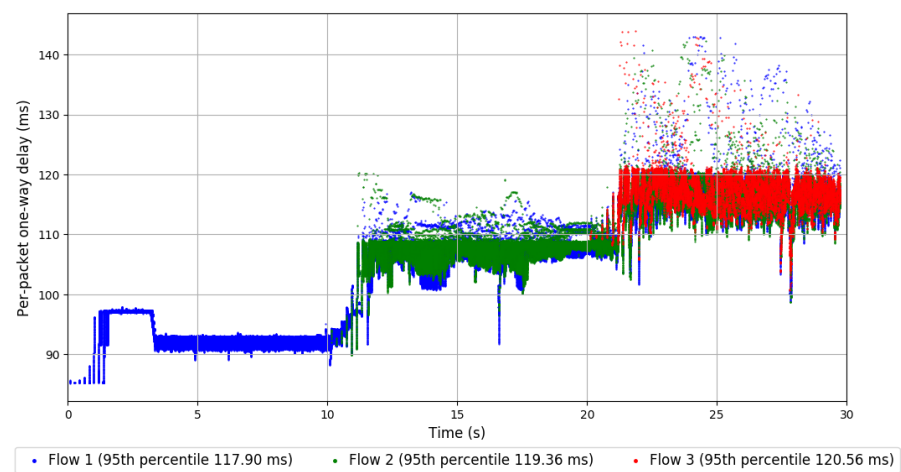
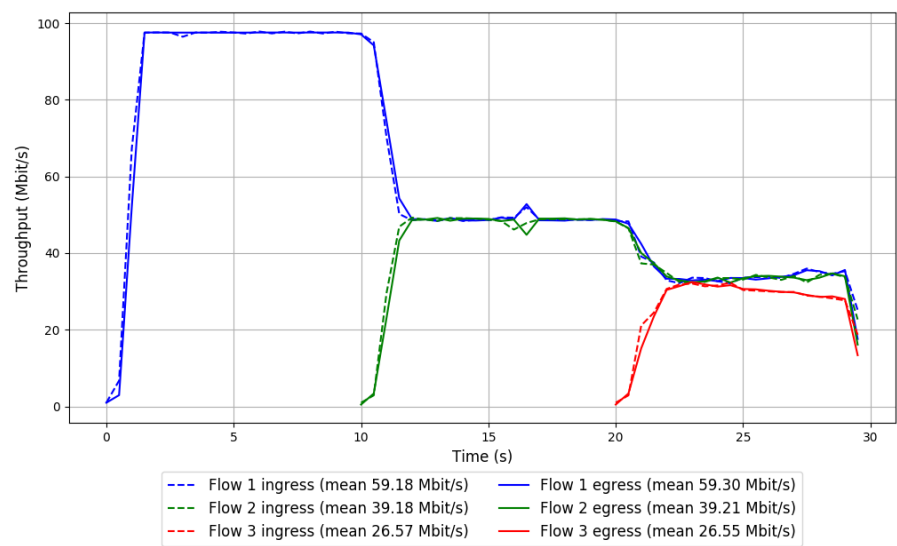
-- Flow 3:

Average throughput: 26.55 Mbit/s

95th percentile per-packet one-way delay: 120.555 ms

Loss rate: 2.19%

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



Run 4: Statistics of Indigo-1-32

Start at: 2018-04-10 19:34:09

End at: 2018-04-10 19:34:39

Local clock offset: -6.518 ms

Remote clock offset: 2.788 ms

Below is generated by plot.py at 2018-04-11 02:31:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 76.35 Mbit/s

95th percentile per-packet one-way delay: 111.315 ms

Loss rate: 16.58%

-- Flow 1:

Average throughput: 52.51 Mbit/s

95th percentile per-packet one-way delay: 110.501 ms

Loss rate: 17.82%

-- Flow 2:

Average throughput: 27.93 Mbit/s

95th percentile per-packet one-way delay: 111.727 ms

Loss rate: 12.16%

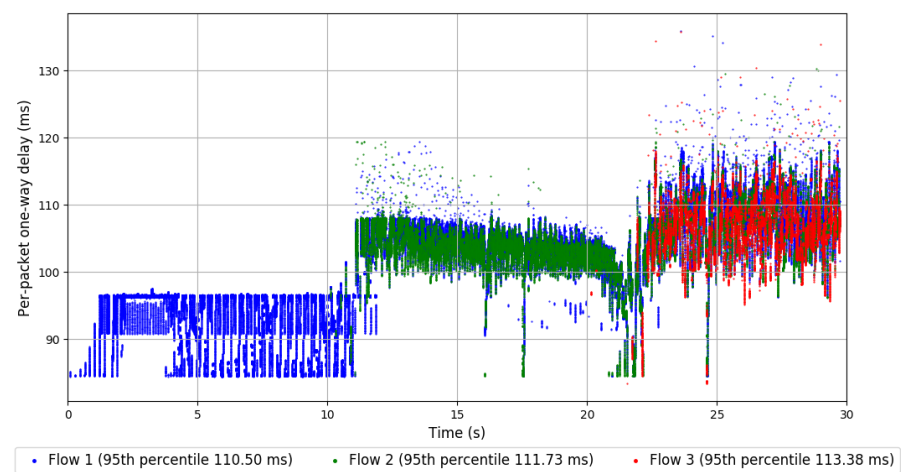
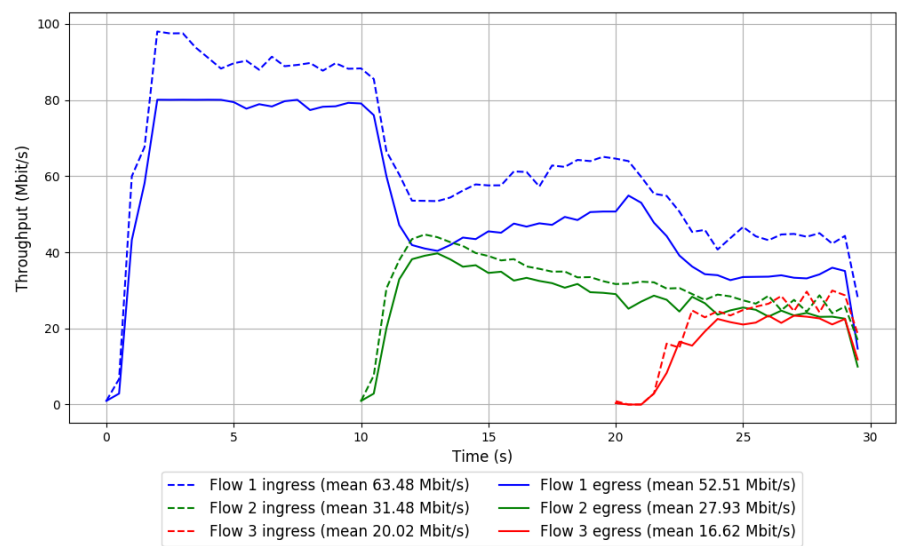
-- Flow 3:

Average throughput: 16.62 Mbit/s

95th percentile per-packet one-way delay: 113.375 ms

Loss rate: 18.62%

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



Run 5: Statistics of Indigo-1-32

Start at: 2018-04-10 19:58:36

End at: 2018-04-10 19:59:06

Local clock offset: -6.636 ms

Remote clock offset: 8.066 ms

Below is generated by plot.py at 2018-04-11 02:32:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.05 Mbit/s

95th percentile per-packet one-way delay: 112.870 ms

Loss rate: 0.76%

-- Flow 1:

Average throughput: 60.00 Mbit/s

95th percentile per-packet one-way delay: 111.978 ms

Loss rate: 0.42%

-- Flow 2:

Average throughput: 36.19 Mbit/s

95th percentile per-packet one-way delay: 113.052 ms

Loss rate: 0.96%

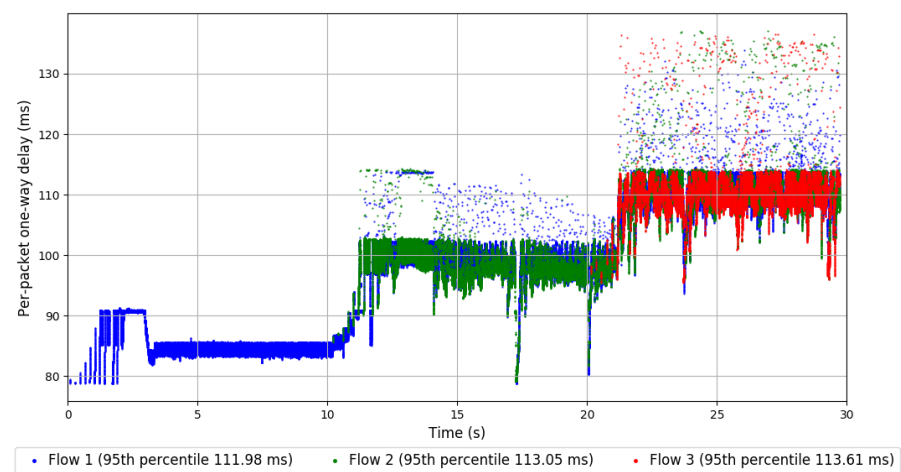
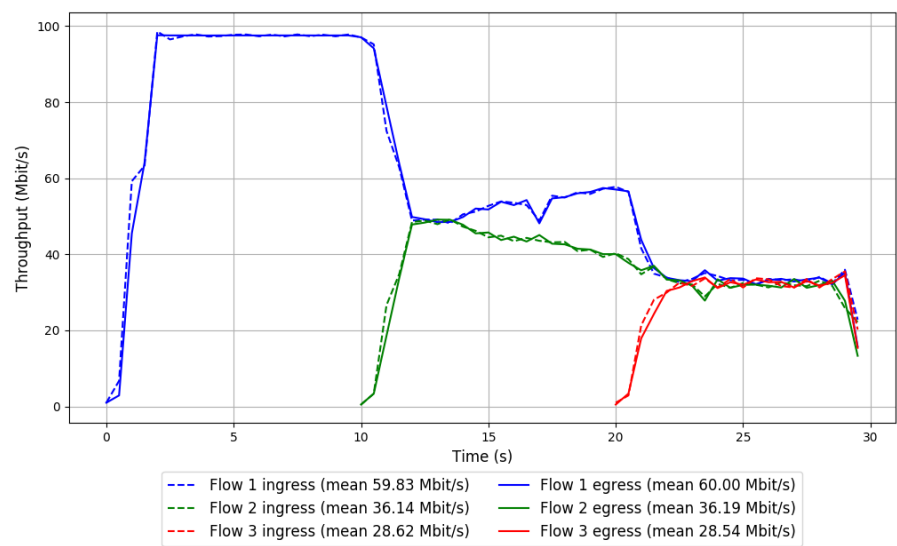
-- Flow 3:

Average throughput: 28.54 Mbit/s

95th percentile per-packet one-way delay: 113.607 ms

Loss rate: 2.41%

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



Run 6: Statistics of Indigo-1-32

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

End at: 2018-04-10 20:23:12

Local clock offset: -6.703 ms

Remote clock offset: 8.976 ms

Below is generated by plot.py at 2018-04-11 02:32:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.73 Mbit/s

95th percentile per-packet one-way delay: 112.948 ms

Loss rate: 0.75%

-- Flow 1:

Average throughput: 59.63 Mbit/s

95th percentile per-packet one-way delay: 111.439 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 37.74 Mbit/s

95th percentile per-packet one-way delay: 113.382 ms

Loss rate: 0.98%

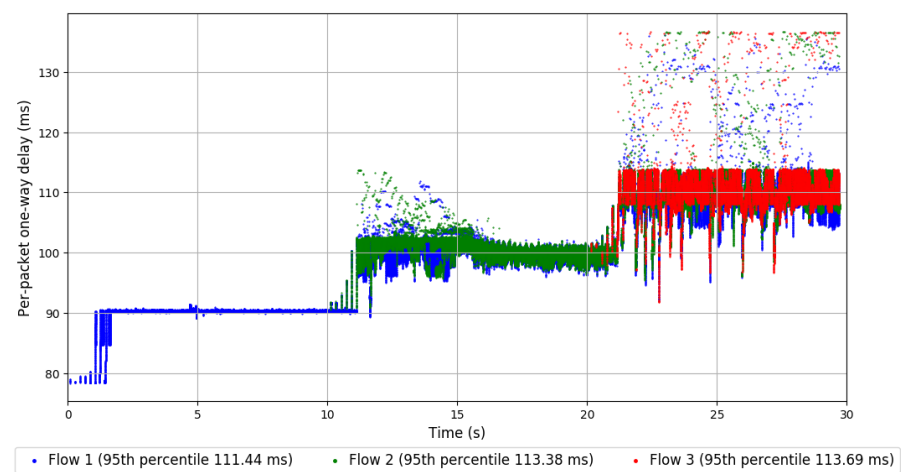
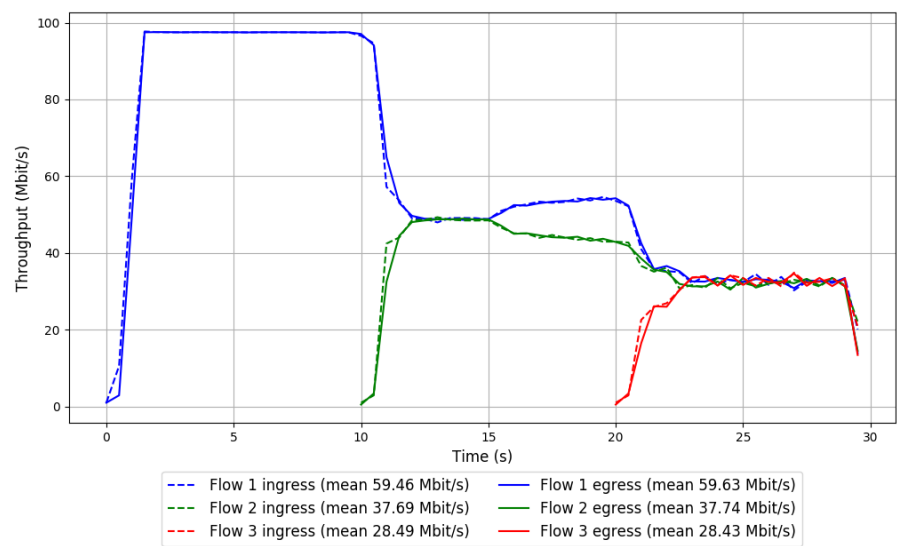
-- Flow 3:

Average throughput: 28.43 Mbit/s

95th percentile per-packet one-way delay: 113.692 ms

Loss rate: 2.54%

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



Run 7: Statistics of Indigo-1-32

Start at: 2018-04-10 20:46:40

End at: 2018-04-10 20:47:10

Local clock offset: -6.316 ms

Remote clock offset: 7.526 ms

Below is generated by plot.py at 2018-04-11 02:32:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 77.16 Mbit/s

95th percentile per-packet one-way delay: 102.233 ms

Loss rate: 17.97%

-- Flow 1:

Average throughput: 53.99 Mbit/s

95th percentile per-packet one-way delay: 102.150 ms

Loss rate: 19.79%

-- Flow 2:

Average throughput: 34.24 Mbit/s

95th percentile per-packet one-way delay: 102.385 ms

Loss rate: 12.61%

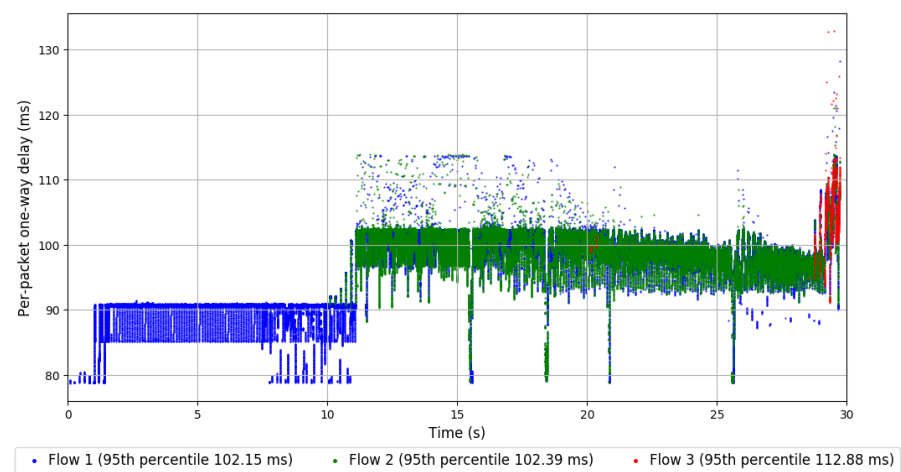
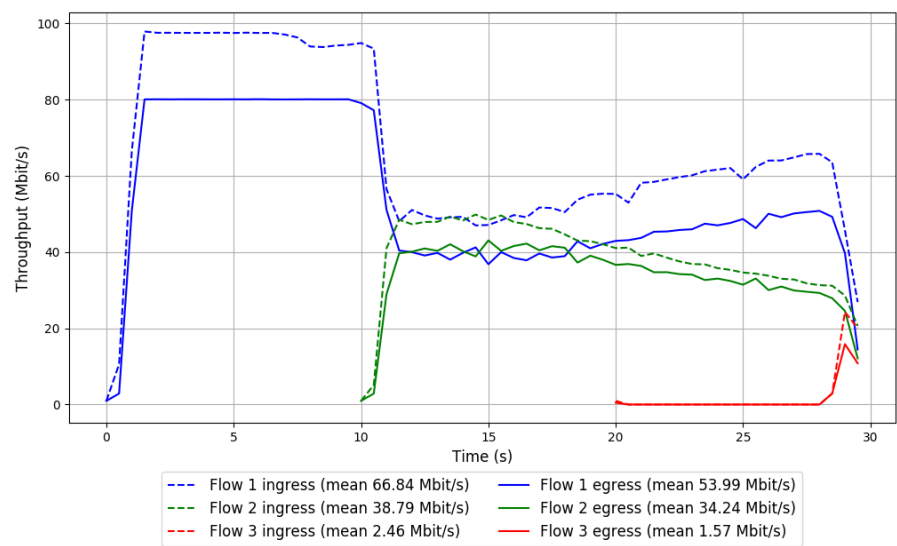
-- Flow 3:

Average throughput: 1.57 Mbit/s

95th percentile per-packet one-way delay: 112.883 ms

Loss rate: 37.87%

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



Run 8: Statistics of Indigo-1-32

Start at: 2018-04-10 21:11:01

End at: 2018-04-10 21:11:31

Local clock offset: -5.908 ms

Remote clock offset: 6.888 ms

Below is generated by plot.py at 2018-04-11 02:32:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.64 Mbit/s

95th percentile per-packet one-way delay: 111.358 ms

Loss rate: 0.68%

-- Flow 1:

Average throughput: 63.15 Mbit/s

95th percentile per-packet one-way delay: 110.525 ms

Loss rate: 0.36%

-- Flow 2:

Average throughput: 31.33 Mbit/s

95th percentile per-packet one-way delay: 111.639 ms

Loss rate: 0.80%

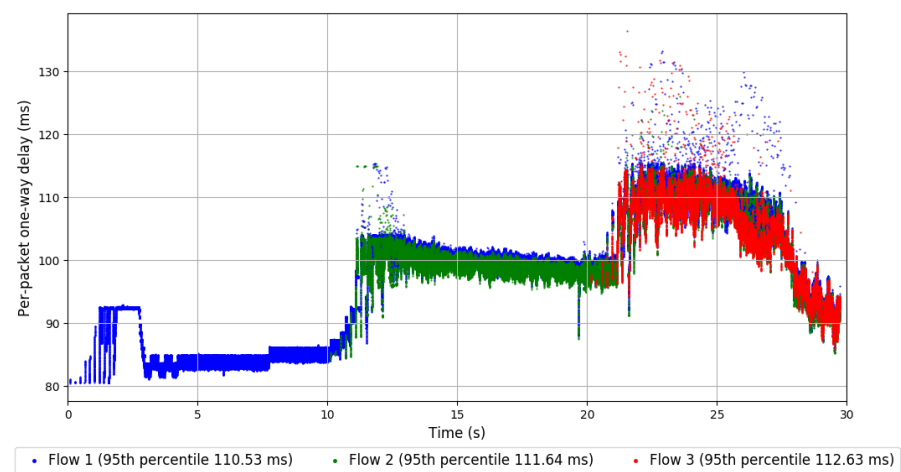
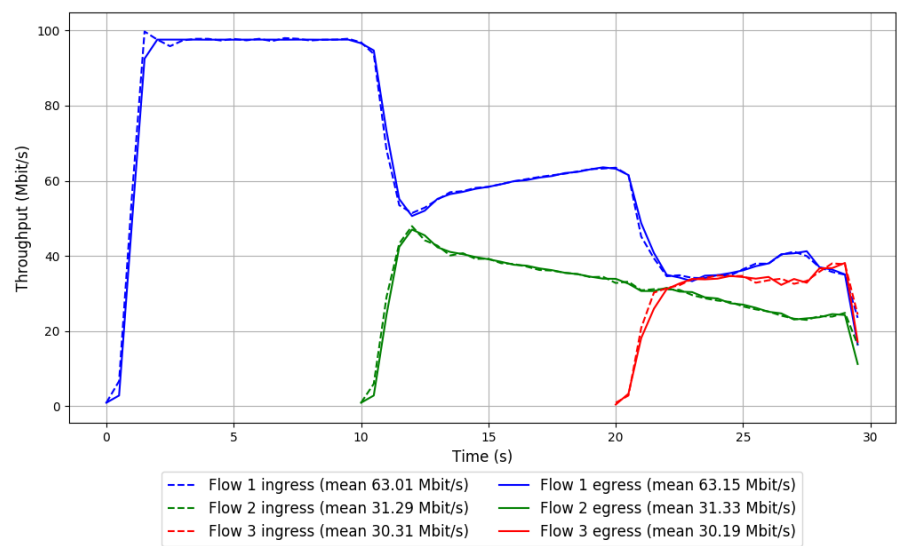
-- Flow 3:

Average throughput: 30.19 Mbit/s

95th percentile per-packet one-way delay: 112.627 ms

Loss rate: 2.40%

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



Run 9: Statistics of Indigo-1-32

Start at: 2018-04-10 21:35:01

End at: 2018-04-10 21:35:31

Local clock offset: -6.194 ms

Remote clock offset: 7.29 ms

Below is generated by plot.py at 2018-04-11 02:33:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.63 Mbit/s

95th percentile per-packet one-way delay: 110.900 ms

Loss rate: 0.73%

-- Flow 1:

Average throughput: 62.74 Mbit/s

95th percentile per-packet one-way delay: 109.968 ms

Loss rate: 0.53%

-- Flow 2:

Average throughput: 34.77 Mbit/s

95th percentile per-packet one-way delay: 111.250 ms

Loss rate: 0.80%

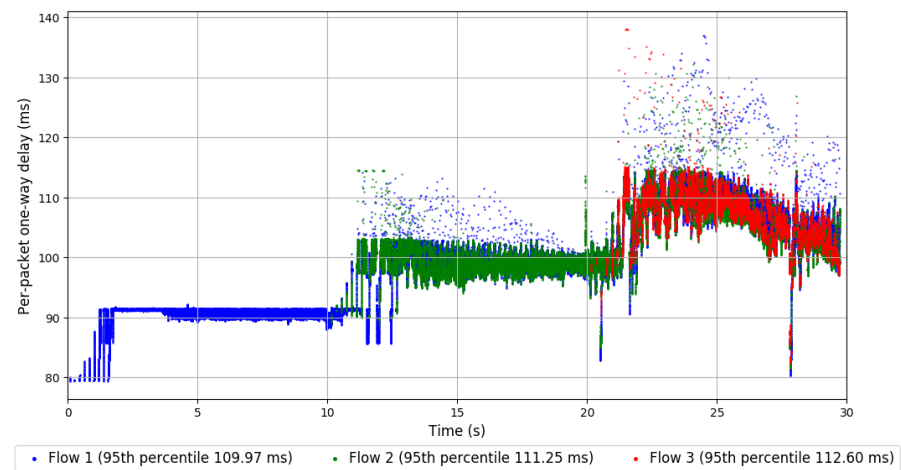
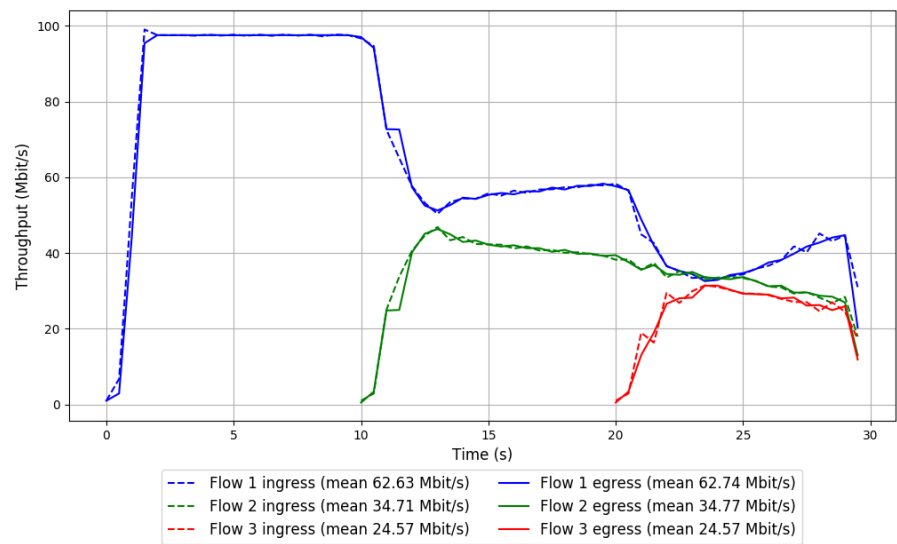
-- Flow 3:

Average throughput: 24.57 Mbit/s

95th percentile per-packet one-way delay: 112.602 ms

Loss rate: 2.17%

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



Run 10: Statistics of Indigo-1-32

Start at: 2018-04-10 21:59:11

End at: 2018-04-10 21:59:41

Local clock offset: -4.842 ms

Remote clock offset: 2.326 ms

Below is generated by plot.py at 2018-04-11 02:33:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.92 Mbit/s

95th percentile per-packet one-way delay: 108.547 ms

Loss rate: 6.57%

-- Flow 1:

Average throughput: 57.32 Mbit/s

95th percentile per-packet one-way delay: 108.316 ms

Loss rate: 8.03%

-- Flow 2:

Average throughput: 34.37 Mbit/s

95th percentile per-packet one-way delay: 108.508 ms

Loss rate: 3.61%

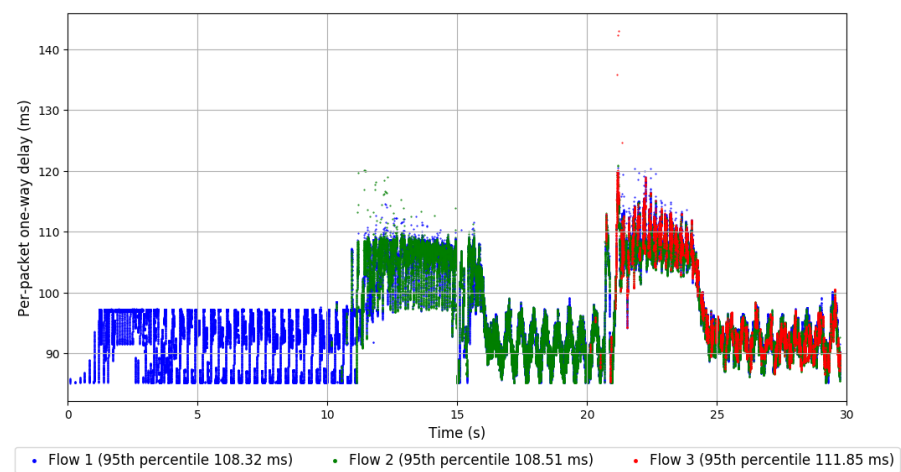
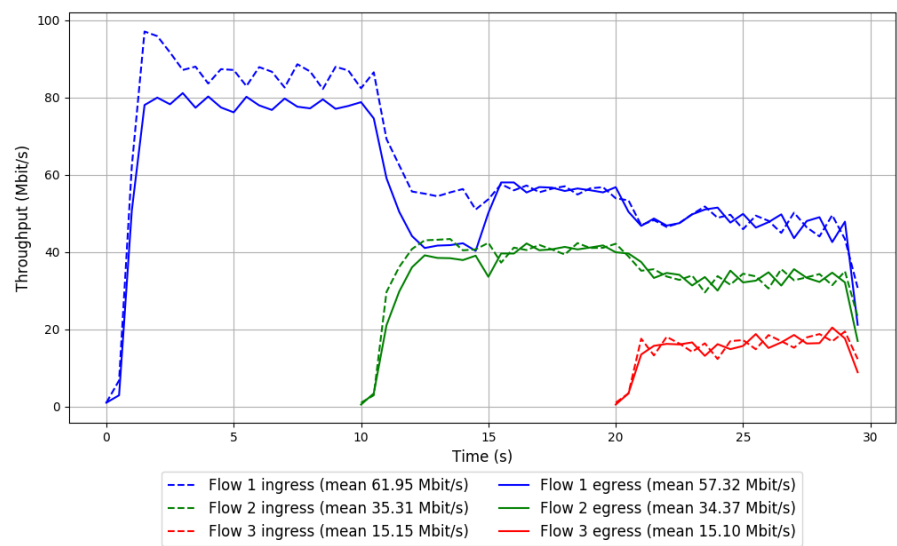
-- Flow 3:

Average throughput: 15.10 Mbit/s

95th percentile per-packet one-way delay: 111.854 ms

Loss rate: 2.27%

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



Run 1: Statistics of Vivace-latency

Start at: 2018-04-10 18:11:23

End at: 2018-04-10 18:11:53

Local clock offset: -5.431 ms

Remote clock offset: 7.824 ms

Below is generated by plot.py at 2018-04-11 02:33:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 77.05 Mbit/s

95th percentile per-packet one-way delay: 98.280 ms

Loss rate: 0.88%

-- Flow 1:

Average throughput: 66.95 Mbit/s

95th percentile per-packet one-way delay: 97.191 ms

Loss rate: 0.51%

-- Flow 2:

Average throughput: 12.78 Mbit/s

95th percentile per-packet one-way delay: 100.534 ms

Loss rate: 3.10%

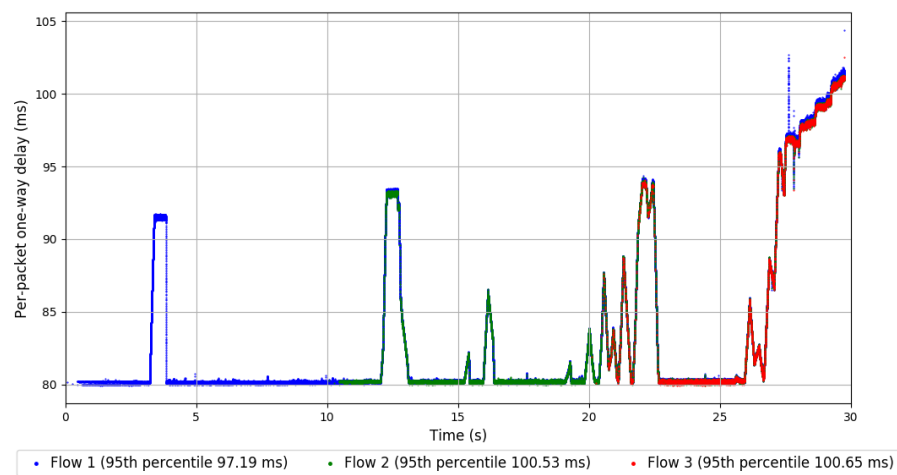
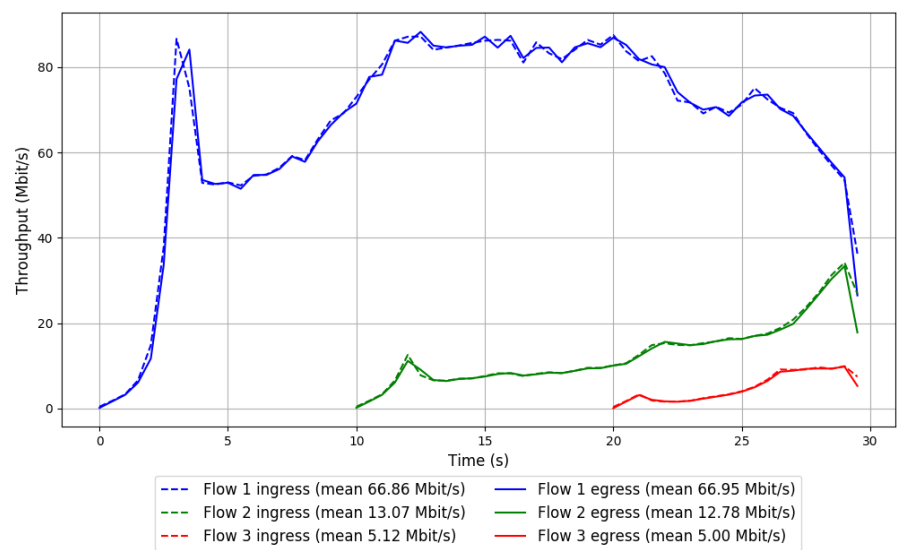
-- Flow 3:

Average throughput: 5.00 Mbit/s

95th percentile per-packet one-way delay: 100.653 ms

Loss rate: 4.19%

Run 1: Report of Vivace-latency — Data Link



Run 2: Statistics of Vivace-latency

Start at: 2018-04-10 18:35:20

End at: 2018-04-10 18:35:50

Local clock offset: -4.816 ms

Remote clock offset: 4.441 ms

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 76.94 Mbit/s

95th percentile per-packet one-way delay: 98.229 ms

Loss rate: 0.85%

-- Flow 1:

Average throughput: 67.43 Mbit/s

95th percentile per-packet one-way delay: 98.075 ms

Loss rate: 0.65%

-- Flow 2:

Average throughput: 12.12 Mbit/s

95th percentile per-packet one-way delay: 98.867 ms

Loss rate: 1.55%

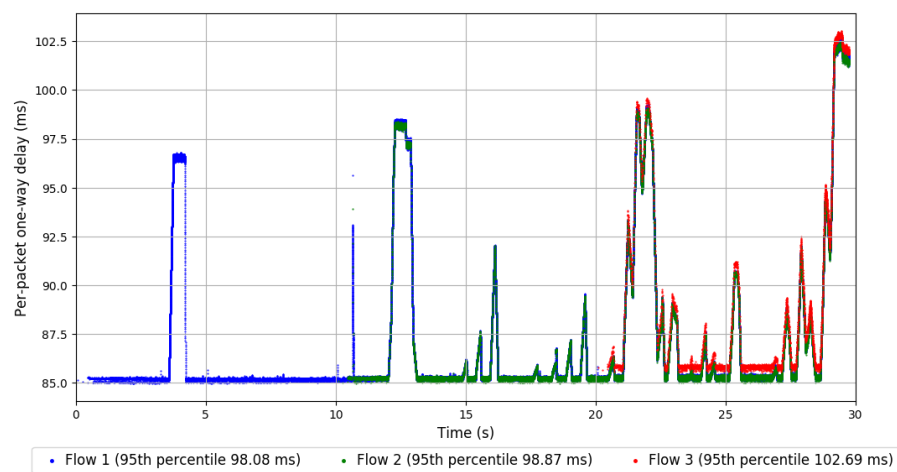
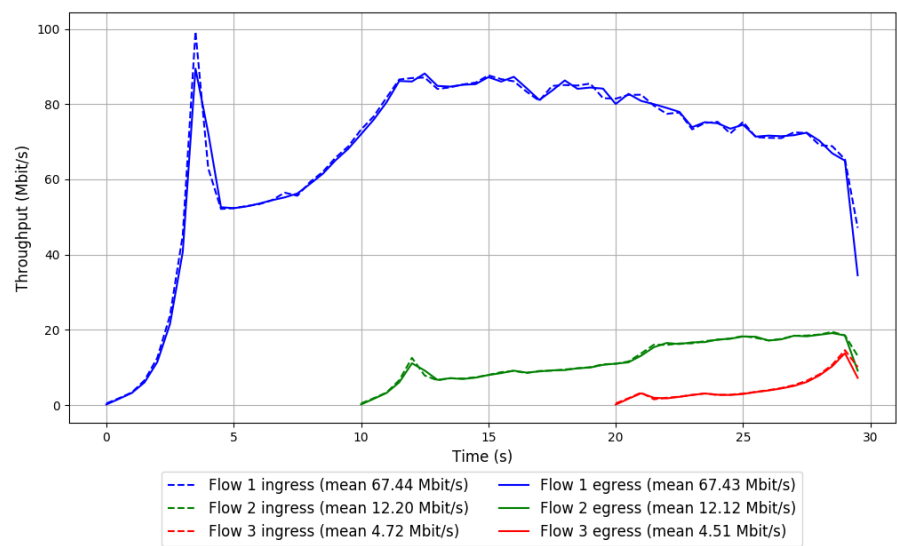
-- Flow 3:

Average throughput: 4.51 Mbit/s

95th percentile per-packet one-way delay: 102.690 ms

Loss rate: 6.21%

Run 2: Report of Vivace-latency — Data Link



Run 3: Statistics of Vivace-latency

Start at: 2018-04-10 18:59:28

End at: 2018-04-10 18:59:58

Local clock offset: -5.392 ms

Remote clock offset: 8.303 ms

Below is generated by plot.py at 2018-04-11 02:34:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 77.20 Mbit/s

95th percentile per-packet one-way delay: 93.090 ms

Loss rate: 0.76%

-- Flow 1:

Average throughput: 67.27 Mbit/s

95th percentile per-packet one-way delay: 93.135 ms

Loss rate: 0.65%

-- Flow 2:

Average throughput: 13.40 Mbit/s

95th percentile per-packet one-way delay: 92.672 ms

Loss rate: 1.26%

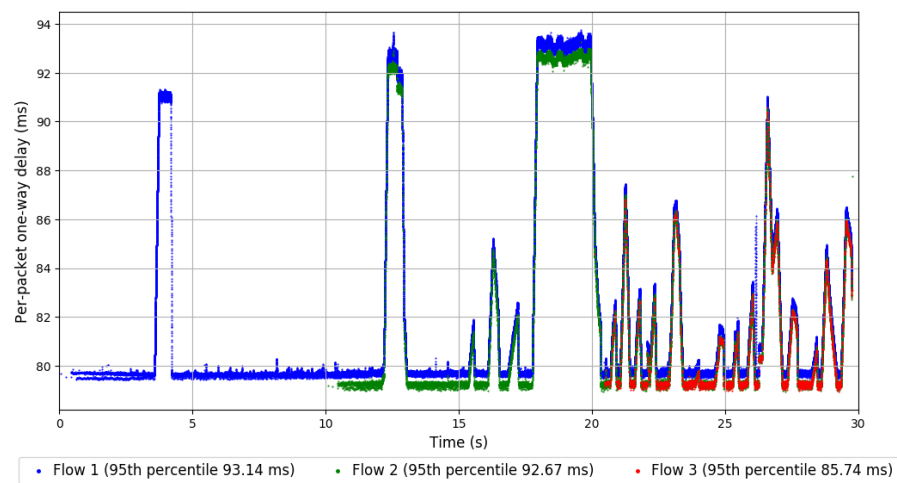
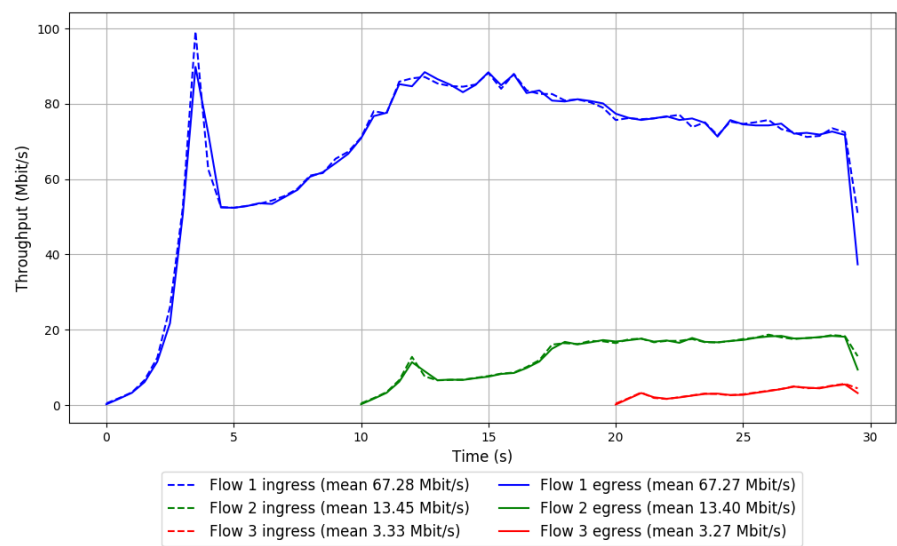
-- Flow 3:

Average throughput: 3.27 Mbit/s

95th percentile per-packet one-way delay: 85.742 ms

Loss rate: 3.50%

Run 3: Report of Vivace-latency — Data Link



Run 4: Statistics of Vivace-latency

Start at: 2018-04-10 19:23:39

End at: 2018-04-10 19:24:09

Local clock offset: -4.831 ms

Remote clock offset: 7.131 ms

Below is generated by plot.py at 2018-04-11 02:34:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 79.46 Mbit/s

95th percentile per-packet one-way delay: 112.713 ms

Loss rate: 1.71%

-- Flow 1:

Average throughput: 51.06 Mbit/s

95th percentile per-packet one-way delay: 110.283 ms

Loss rate: 0.77%

-- Flow 2:

Average throughput: 32.02 Mbit/s

95th percentile per-packet one-way delay: 113.308 ms

Loss rate: 3.21%

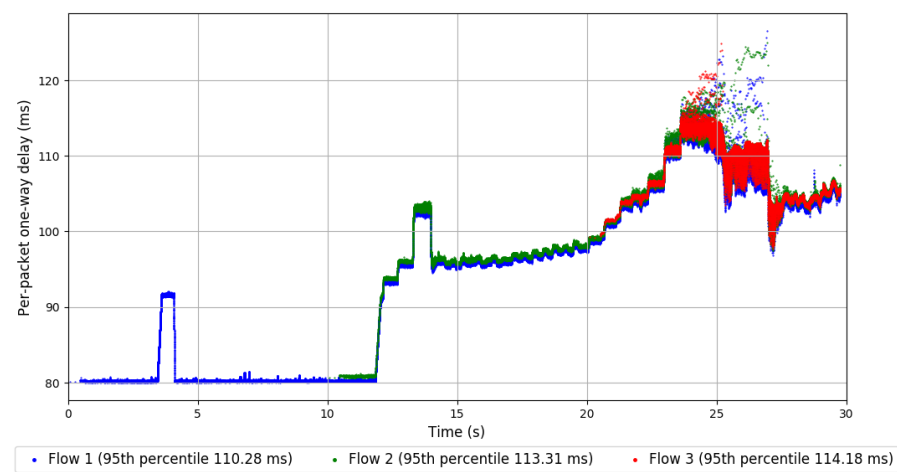
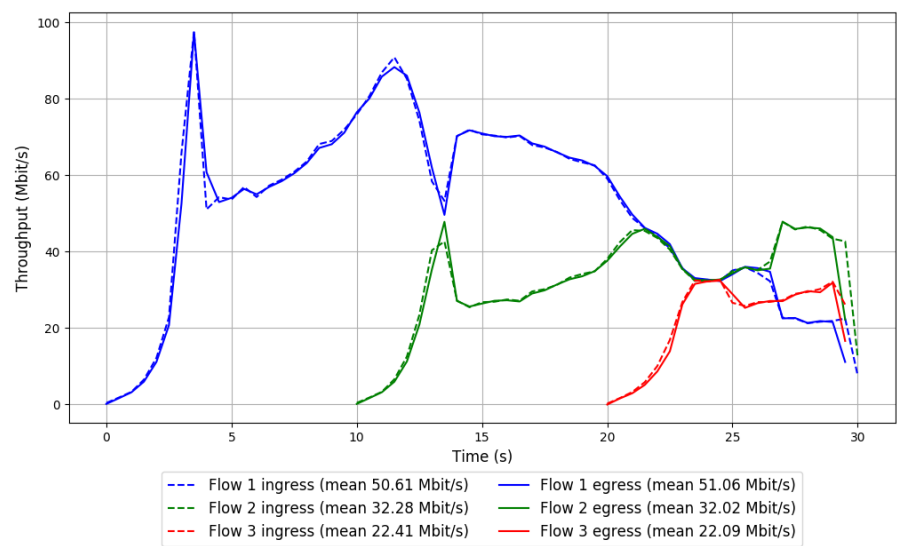
-- Flow 3:

Average throughput: 22.09 Mbit/s

95th percentile per-packet one-way delay: 114.180 ms

Loss rate: 3.74%

Run 4: Report of Vivace-latency — Data Link



Run 5: Statistics of Vivace-latency

Start at: 2018-04-10 19:47:38

End at: 2018-04-10 19:48:08

Local clock offset: -5.836 ms

Remote clock offset: 3.0 ms

Below is generated by plot.py at 2018-04-11 02:34:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 77.36 Mbit/s

95th percentile per-packet one-way delay: 95.685 ms

Loss rate: 0.78%

-- Flow 1:

Average throughput: 67.89 Mbit/s

95th percentile per-packet one-way delay: 95.471 ms

Loss rate: 0.61%

-- Flow 2:

Average throughput: 11.28 Mbit/s

95th percentile per-packet one-way delay: 99.380 ms

Loss rate: 1.57%

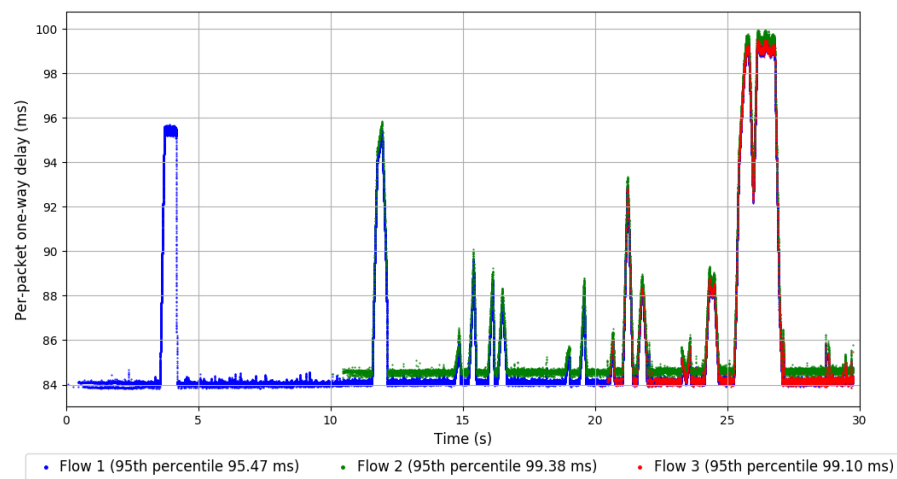
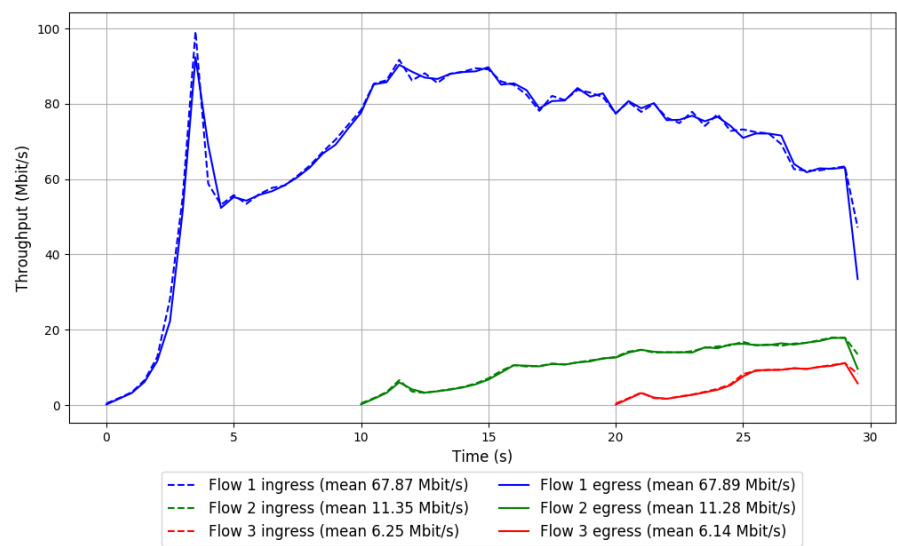
-- Flow 3:

Average throughput: 6.14 Mbit/s

95th percentile per-packet one-way delay: 99.102 ms

Loss rate: 3.59%

Run 5: Report of Vivace-latency — Data Link



Run 6: Statistics of Vivace-latency

Start at: 2018-04-10 20:12:08

End at: 2018-04-10 20:12:38

Local clock offset: -6.564 ms

Remote clock offset: 8.689 ms

Below is generated by plot.py at 2018-04-11 02:34:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 70.20 Mbit/s

95th percentile per-packet one-way delay: 82.444 ms

Loss rate: 2.25%

-- Flow 1:

Average throughput: 61.01 Mbit/s

95th percentile per-packet one-way delay: 82.930 ms

Loss rate: 2.00%

-- Flow 2:

Average throughput: 10.61 Mbit/s

95th percentile per-packet one-way delay: 79.216 ms

Loss rate: 3.42%

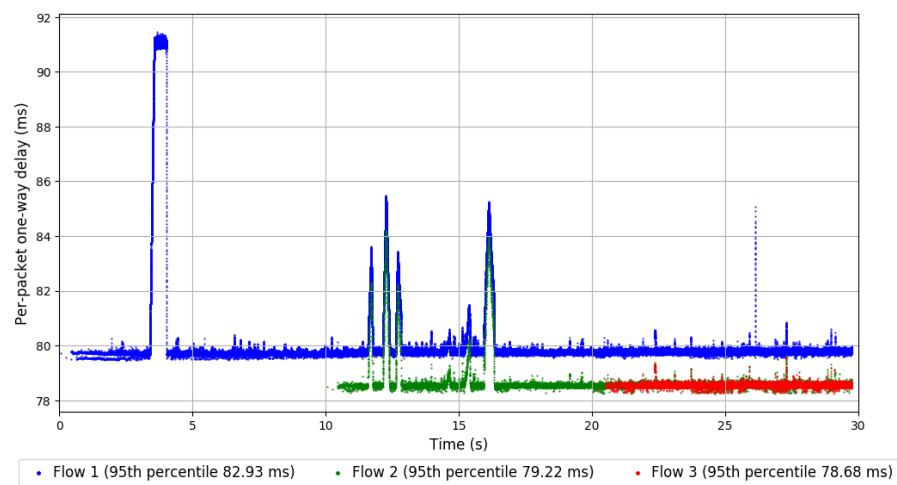
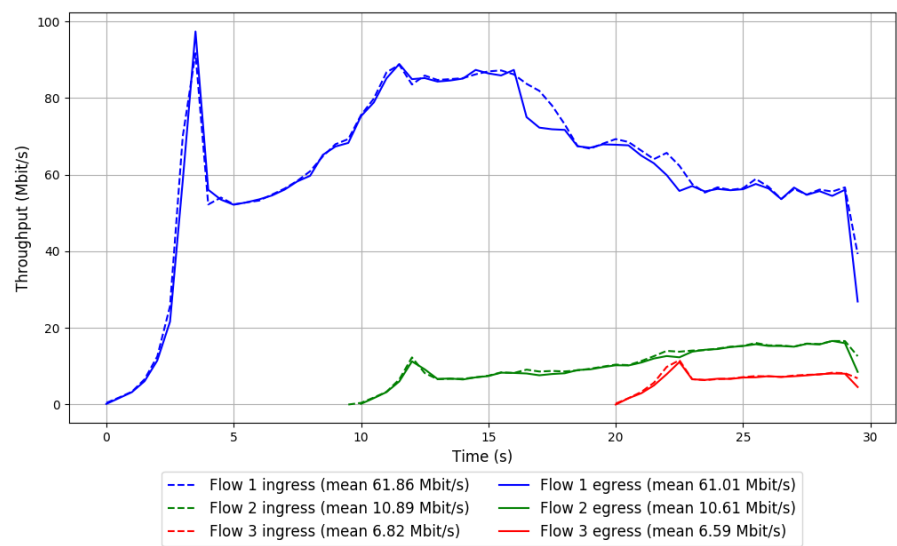
-- Flow 3:

Average throughput: 6.59 Mbit/s

95th percentile per-packet one-way delay: 78.681 ms

Loss rate: 5.17%

Run 6: Report of Vivace-latency — Data Link



Run 7: Statistics of Vivace-latency

Start at: 2018-04-10 20:36:11

End at: 2018-04-10 20:36:41

Local clock offset: -6.467 ms

Remote clock offset: 3.887 ms

Below is generated by plot.py at 2018-04-11 02:34:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 78.16 Mbit/s

95th percentile per-packet one-way delay: 92.652 ms

Loss rate: 0.77%

-- Flow 1:

Average throughput: 68.56 Mbit/s

95th percentile per-packet one-way delay: 92.961 ms

Loss rate: 0.66%

-- Flow 2:

Average throughput: 11.97 Mbit/s

95th percentile per-packet one-way delay: 92.434 ms

Loss rate: 1.29%

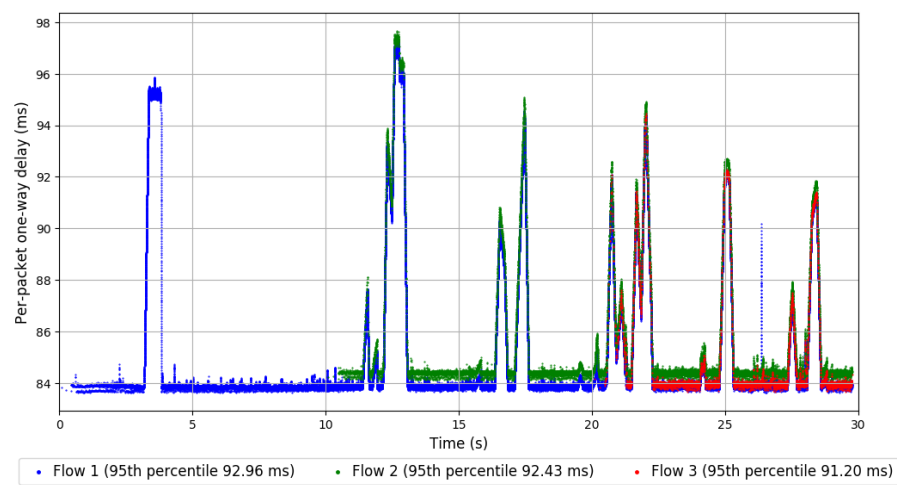
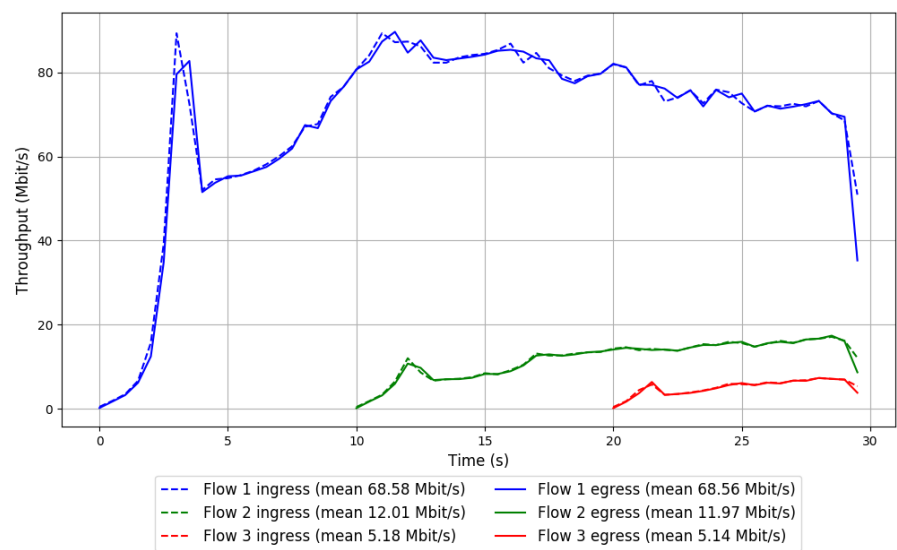
-- Flow 3:

Average throughput: 5.14 Mbit/s

95th percentile per-packet one-way delay: 91.202 ms

Loss rate: 2.74%

Run 7: Report of Vivace-latency — Data Link



Run 8: Statistics of Vivace-latency

Start at: 2018-04-10 21:00:14

End at: 2018-04-10 21:00:44

Local clock offset: -6.167 ms

Remote clock offset: 2.112 ms

Below is generated by plot.py at 2018-04-11 02:34:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 78.04 Mbit/s

95th percentile per-packet one-way delay: 114.030 ms

Loss rate: 0.90%

-- Flow 1:

Average throughput: 62.86 Mbit/s

95th percentile per-packet one-way delay: 110.133 ms

Loss rate: 0.39%

-- Flow 2:

Average throughput: 17.84 Mbit/s

95th percentile per-packet one-way delay: 116.713 ms

Loss rate: 1.96%

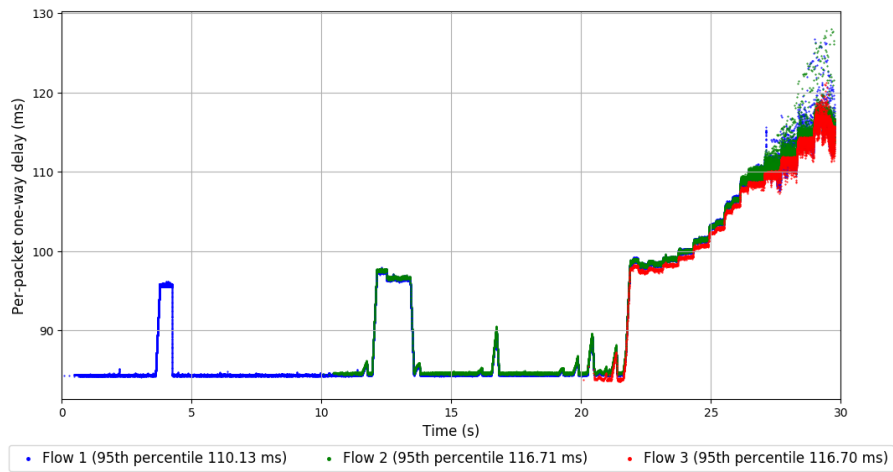
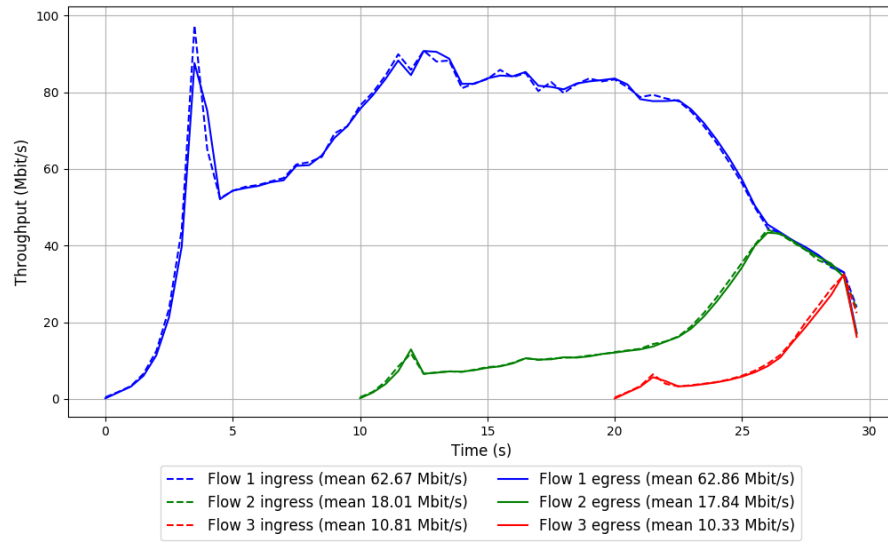
-- Flow 3:

Average throughput: 10.33 Mbit/s

95th percentile per-packet one-way delay: 116.699 ms

Loss rate: 6.39%

Run 8: Report of Vivace-latency — Data Link



Run 9: Statistics of Vivace-latency

Start at: 2018-04-10 21:24:26

End at: 2018-04-10 21:24:56

Local clock offset: -5.388 ms

Remote clock offset: 7.298 ms

Below is generated by plot.py at 2018-04-11 02:34:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 76.94 Mbit/s

95th percentile per-packet one-way delay: 97.413 ms

Loss rate: 0.88%

-- Flow 1:

Average throughput: 62.95 Mbit/s

95th percentile per-packet one-way delay: 96.309 ms

Loss rate: 0.50%

-- Flow 2:

Average throughput: 16.23 Mbit/s

95th percentile per-packet one-way delay: 103.210 ms

Loss rate: 1.97%

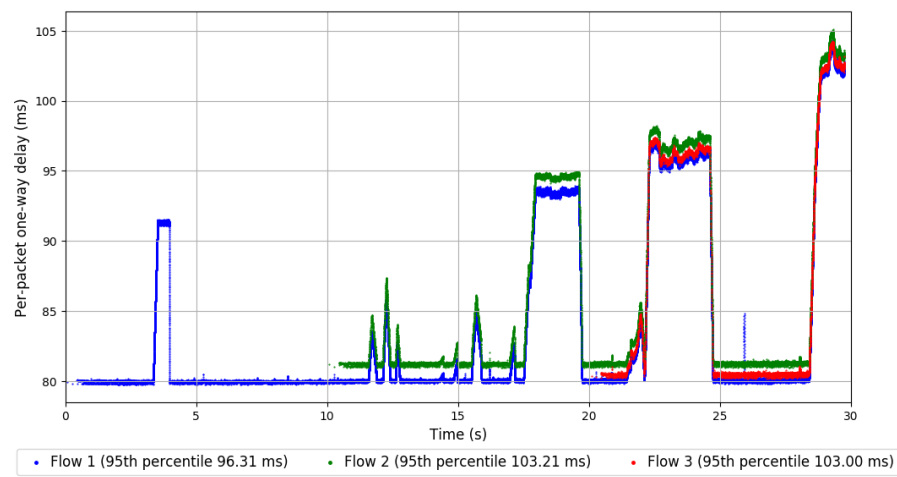
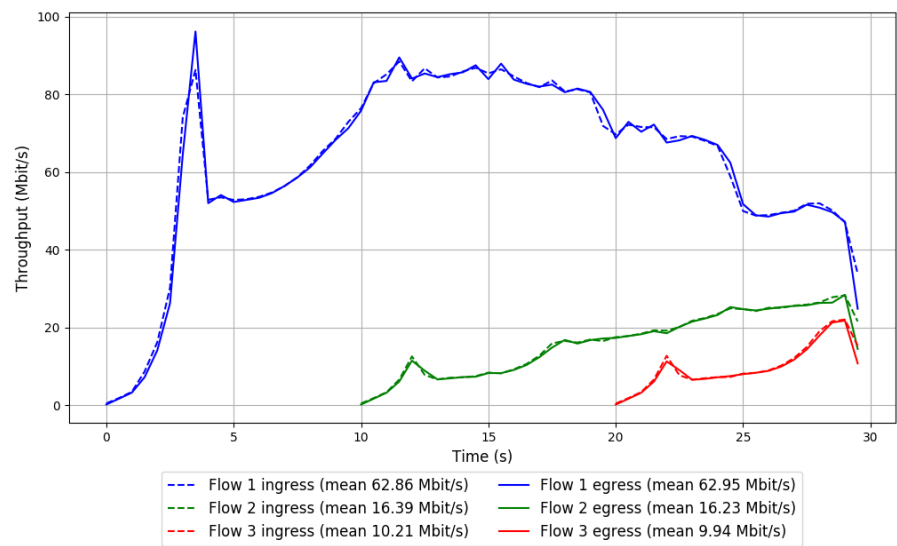
-- Flow 3:

Average throughput: 9.94 Mbit/s

95th percentile per-packet one-way delay: 102.995 ms

Loss rate: 4.46%

Run 9: Report of Vivace-latency — Data Link



Run 10: Statistics of Vivace-latency

Start at: 2018-04-10 21:48:39

End at: 2018-04-10 21:49:09

Local clock offset: -5.65 ms

Remote clock offset: 2.338 ms

Below is generated by plot.py at 2018-04-11 02:34:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 72.00 Mbit/s

95th percentile per-packet one-way delay: 108.932 ms

Loss rate: 0.94%

-- Flow 1:

Average throughput: 51.78 Mbit/s

95th percentile per-packet one-way delay: 108.633 ms

Loss rate: 0.55%

-- Flow 2:

Average throughput: 27.85 Mbit/s

95th percentile per-packet one-way delay: 109.059 ms

Loss rate: 1.70%

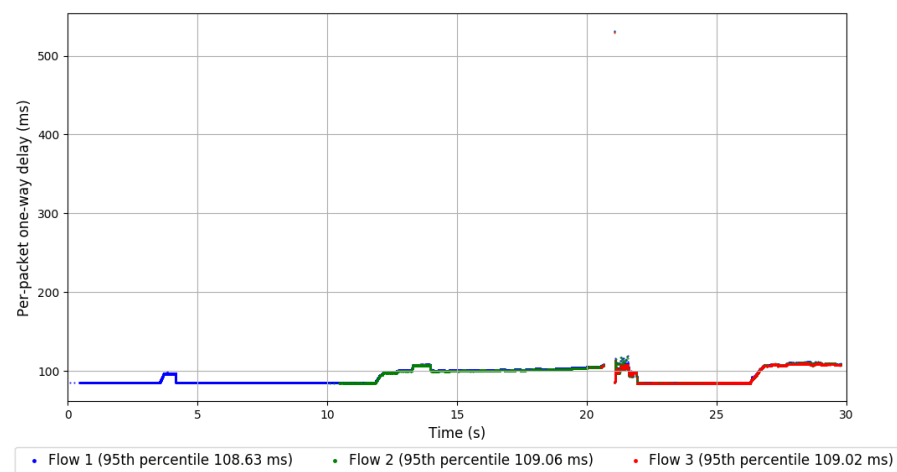
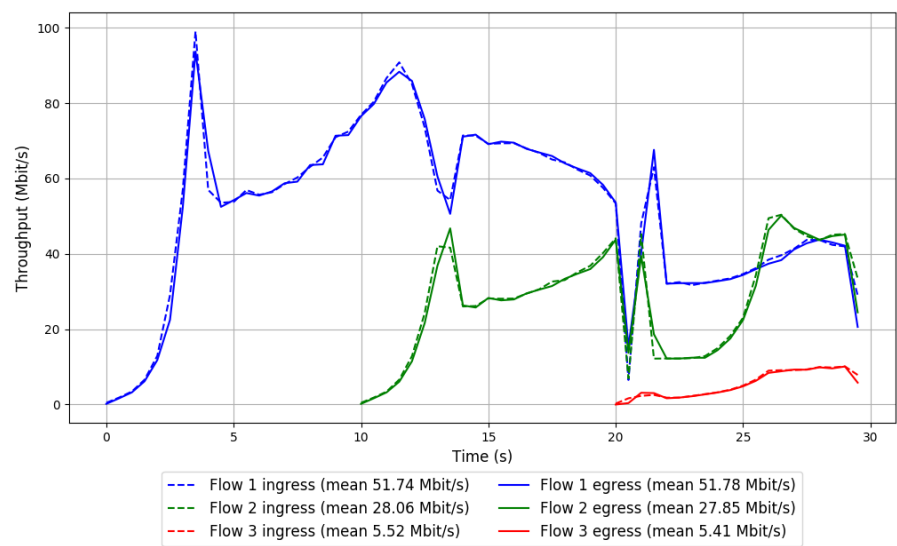
-- Flow 3:

Average throughput: 5.41 Mbit/s

95th percentile per-packet one-way delay: 109.018 ms

Loss rate: 4.03%

Run 10: Report of Vivace-latency — Data Link



Run 1: Statistics of Vivace-loss

Start at: 2018-04-10 18:28:28

End at: 2018-04-10 18:28:58

Local clock offset: -4.782 ms

Remote clock offset: 8.876 ms

Below is generated by plot.py at 2018-04-11 02:35:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 75.39 Mbit/s

95th percentile per-packet one-way delay: 113.837 ms

Loss rate: 0.93%

-- Flow 1:

Average throughput: 47.56 Mbit/s

95th percentile per-packet one-way delay: 114.076 ms

Loss rate: 0.49%

-- Flow 2:

Average throughput: 30.01 Mbit/s

95th percentile per-packet one-way delay: 113.330 ms

Loss rate: 1.16%

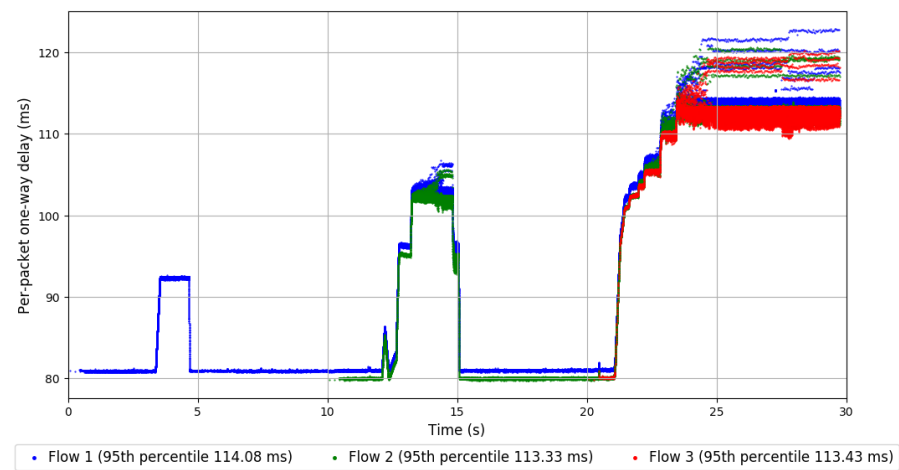
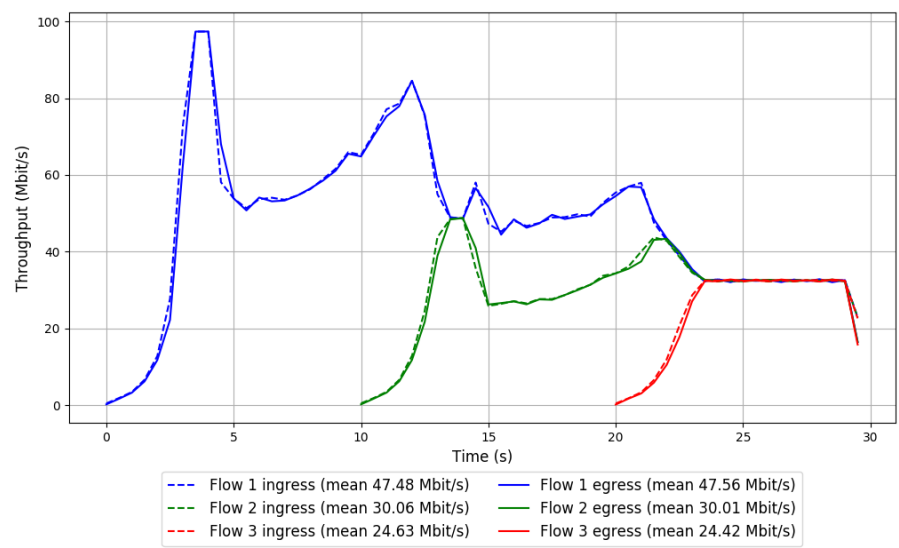
-- Flow 3:

Average throughput: 24.42 Mbit/s

95th percentile per-packet one-way delay: 113.428 ms

Loss rate: 2.91%

Run 1: Report of Vivace-loss — Data Link



Run 2: Statistics of Vivace-loss

Start at: 2018-04-10 18:52:38

End at: 2018-04-10 18:53:08

Local clock offset: -4.719 ms

Remote clock offset: 4.746 ms

Below is generated by plot.py at 2018-04-11 02:35:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 67.56 Mbit/s

95th percentile per-packet one-way delay: 96.412 ms

Loss rate: 1.69%

-- Flow 1:

Average throughput: 60.40 Mbit/s

95th percentile per-packet one-way delay: 96.448 ms

Loss rate: 1.53%

-- Flow 2:

Average throughput: 8.72 Mbit/s

95th percentile per-packet one-way delay: 84.767 ms

Loss rate: 2.74%

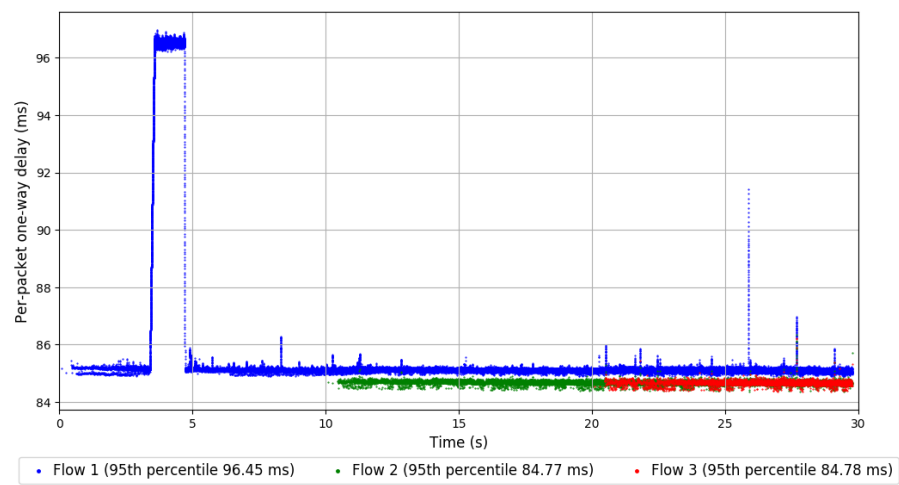
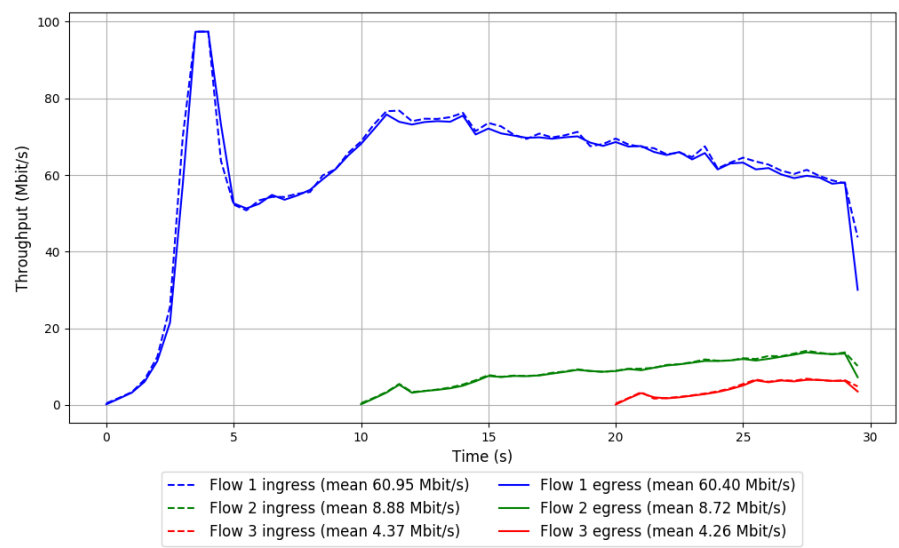
-- Flow 3:

Average throughput: 4.26 Mbit/s

95th percentile per-packet one-way delay: 84.781 ms

Loss rate: 4.43%

Run 2: Report of Vivace-loss — Data Link



Run 3: Statistics of Vivace-loss

Start at: 2018-04-10 19:16:46

End at: 2018-04-10 19:17:16

Local clock offset: -5.45 ms

Remote clock offset: 7.274 ms

Below is generated by plot.py at 2018-04-11 02:35:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 66.51 Mbit/s

95th percentile per-packet one-way delay: 80.459 ms

Loss rate: 2.65%

-- Flow 1:

Average throughput: 58.56 Mbit/s

95th percentile per-packet one-way delay: 79.305 ms

Loss rate: 2.47%

-- Flow 2:

Average throughput: 9.69 Mbit/s

95th percentile per-packet one-way delay: 80.520 ms

Loss rate: 3.15%

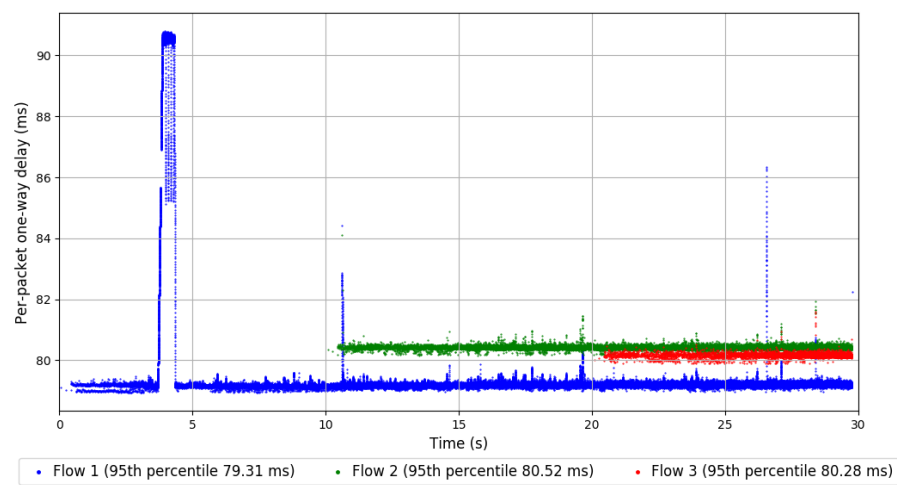
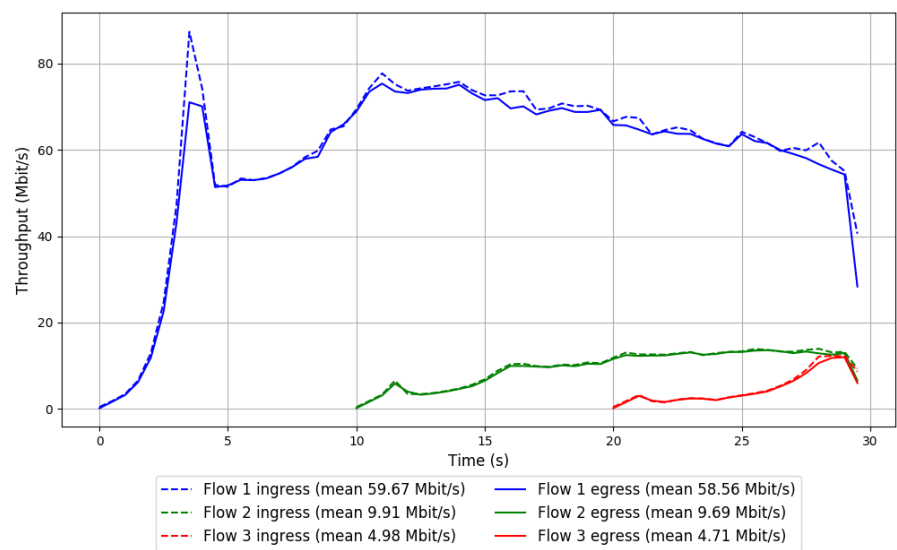
-- Flow 3:

Average throughput: 4.71 Mbit/s

95th percentile per-packet one-way delay: 80.284 ms

Loss rate: 7.31%

Run 3: Report of Vivace-loss — Data Link



Run 4: Statistics of Vivace-loss

Start at: 2018-04-10 19:40:42

End at: 2018-04-10 19:41:12

Local clock offset: -5.837 ms

Remote clock offset: 7.659 ms

Below is generated by plot.py at 2018-04-11 02:35:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 78.94 Mbit/s

95th percentile per-packet one-way delay: 113.365 ms

Loss rate: 3.51%

-- Flow 1:

Average throughput: 51.13 Mbit/s

95th percentile per-packet one-way delay: 111.674 ms

Loss rate: 0.52%

-- Flow 2:

Average throughput: 30.07 Mbit/s

95th percentile per-packet one-way delay: 112.776 ms

Loss rate: 6.19%

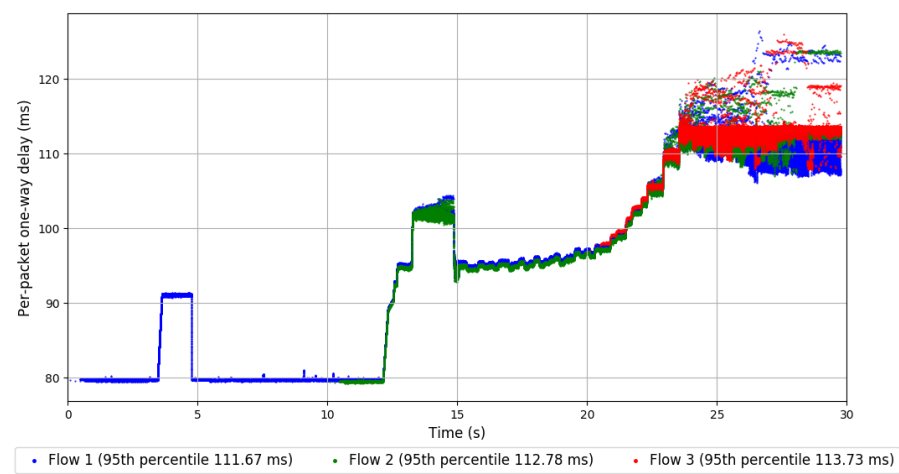
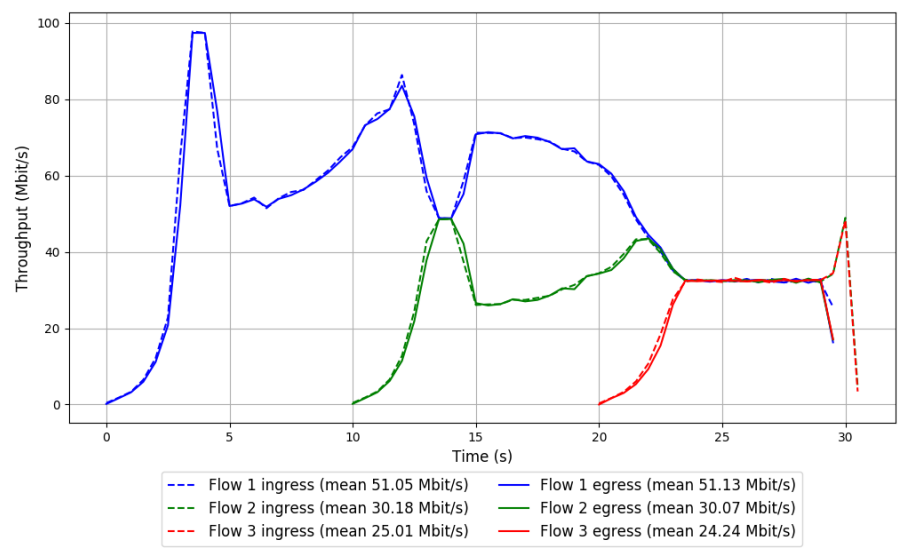
-- Flow 3:

Average throughput: 24.24 Mbit/s

95th percentile per-packet one-way delay: 113.733 ms

Loss rate: 14.05%

Run 4: Report of Vivace-loss — Data Link



Run 5: Statistics of Vivace-loss

Start at: 2018-04-10 20:05:11

End at: 2018-04-10 20:05:41

Local clock offset: -5.824 ms

Remote clock offset: 8.329 ms

Below is generated by plot.py at 2018-04-11 02:35:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 78.93 Mbit/s

95th percentile per-packet one-way delay: 113.540 ms

Loss rate: 5.70%

-- Flow 1:

Average throughput: 51.33 Mbit/s

95th percentile per-packet one-way delay: 113.290 ms

Loss rate: 0.51%

-- Flow 2:

Average throughput: 29.73 Mbit/s

95th percentile per-packet one-way delay: 113.523 ms

Loss rate: 8.73%

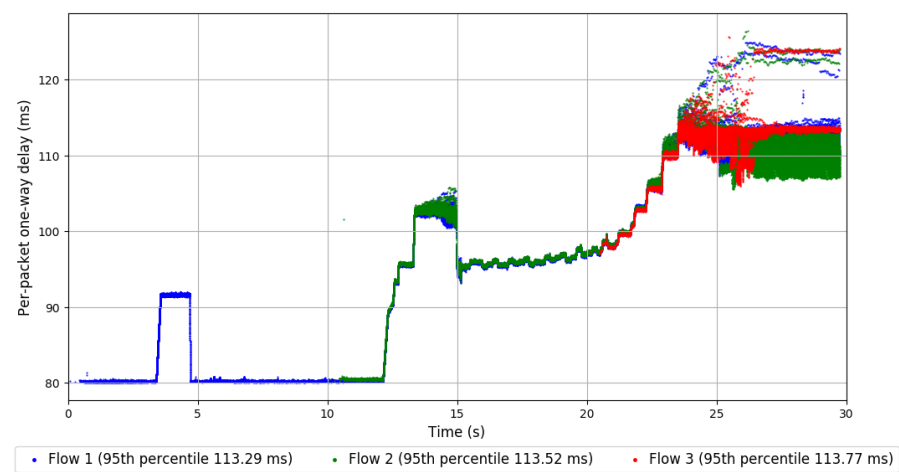
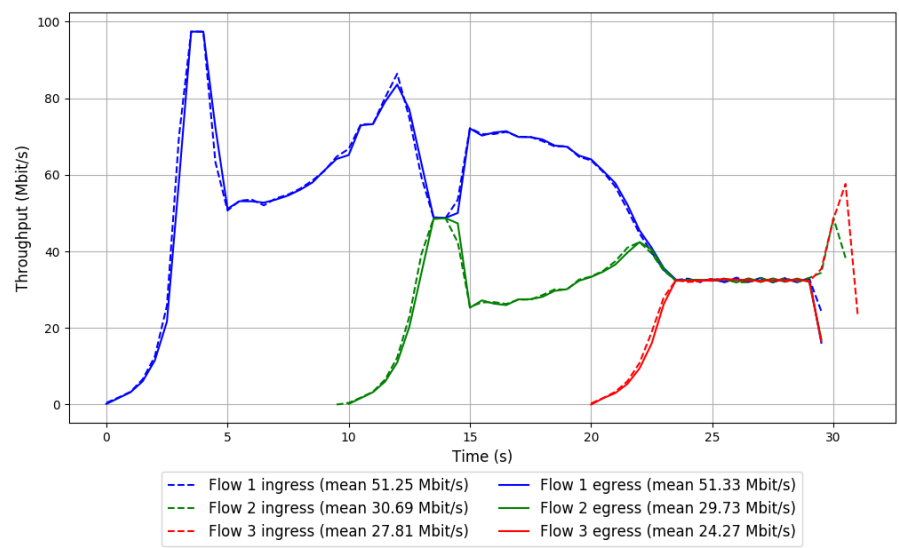
-- Flow 3:

Average throughput: 24.27 Mbit/s

95th percentile per-packet one-way delay: 113.768 ms

Loss rate: 24.96%

Run 5: Report of Vivace-loss — Data Link



Run 6: Statistics of Vivace-loss

Start at: 2018-04-10 20:29:20

End at: 2018-04-10 20:29:50

Local clock offset: -5.732 ms

Remote clock offset: 9.061 ms

Below is generated by plot.py at 2018-04-11 02:35:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 67.59 Mbit/s

95th percentile per-packet one-way delay: 80.654 ms

Loss rate: 2.50%

-- Flow 1:

Average throughput: 59.56 Mbit/s

95th percentile per-packet one-way delay: 80.690 ms

Loss rate: 2.35%

-- Flow 2:

Average throughput: 8.34 Mbit/s

95th percentile per-packet one-way delay: 79.868 ms

Loss rate: 3.21%

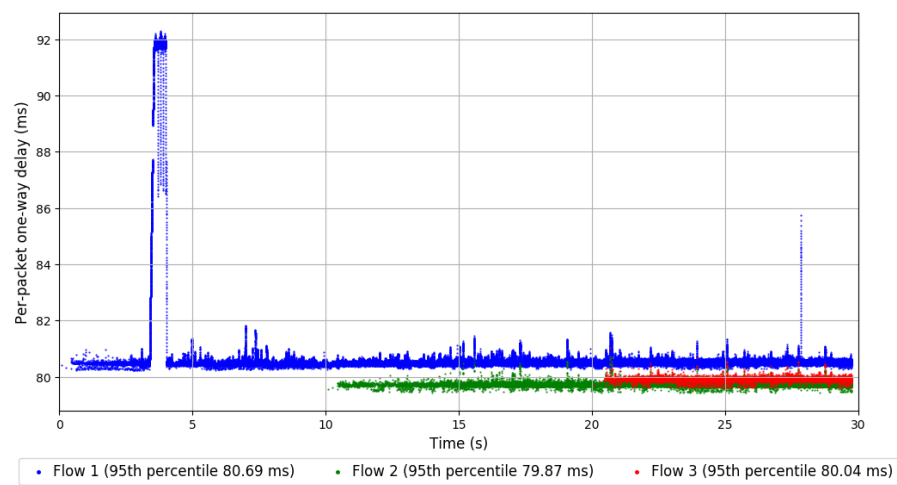
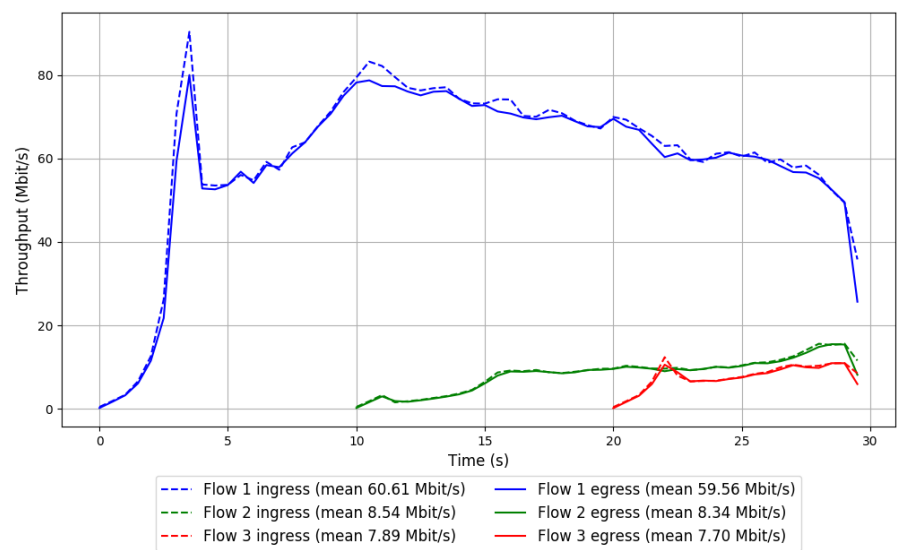
-- Flow 3:

Average throughput: 7.70 Mbit/s

95th percentile per-packet one-way delay: 80.043 ms

Loss rate: 4.31%

Run 6: Report of Vivace-loss — Data Link



Run 7: Statistics of Vivace-loss

Start at: 2018-04-10 20:53:22

End at: 2018-04-10 20:53:52

Local clock offset: -5.551 ms

Remote clock offset: 7.174 ms

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 76.22 Mbit/s

95th percentile per-packet one-way delay: 112.691 ms

Loss rate: 0.91%

-- Flow 1:

Average throughput: 48.16 Mbit/s

95th percentile per-packet one-way delay: 112.594 ms

Loss rate: 0.47%

-- Flow 2:

Average throughput: 30.46 Mbit/s

95th percentile per-packet one-way delay: 112.786 ms

Loss rate: 1.14%

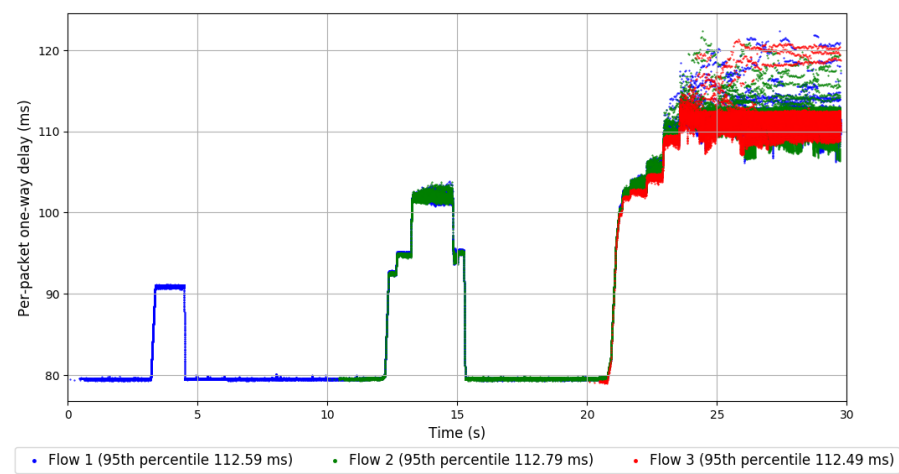
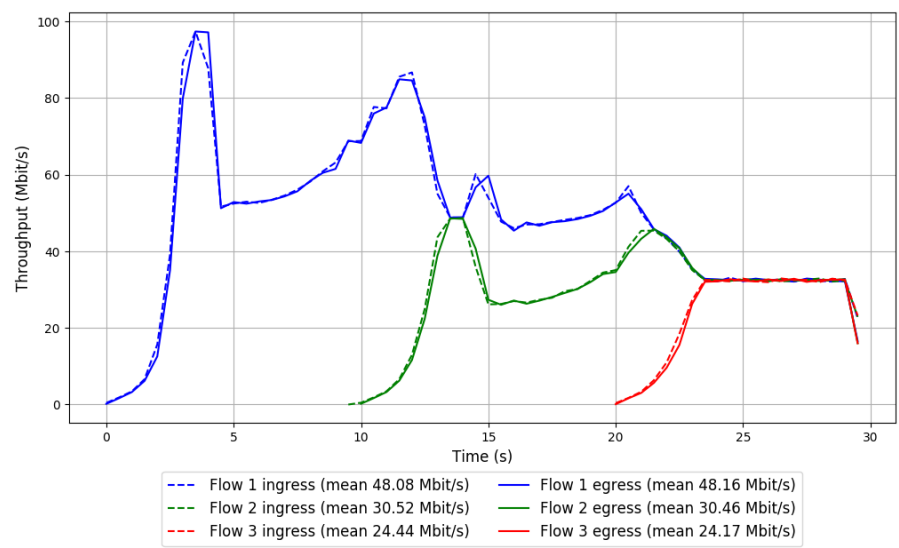
-- Flow 3:

Average throughput: 24.17 Mbit/s

95th percentile per-packet one-way delay: 112.494 ms

Loss rate: 3.00%

Run 7: Report of Vivace-loss — Data Link



Run 8: Statistics of Vivace-loss

Start at: 2018-04-10 21:17:32

End at: 2018-04-10 21:18:02

Local clock offset: -6.04 ms

Remote clock offset: 2.402 ms

Below is generated by plot.py at 2018-04-11 02:35:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 78.55 Mbit/s

95th percentile per-packet one-way delay: 118.313 ms

Loss rate: 5.79%

-- Flow 1:

Average throughput: 50.70 Mbit/s

95th percentile per-packet one-way delay: 118.411 ms

Loss rate: 0.51%

-- Flow 2:

Average throughput: 30.20 Mbit/s

95th percentile per-packet one-way delay: 117.710 ms

Loss rate: 8.77%

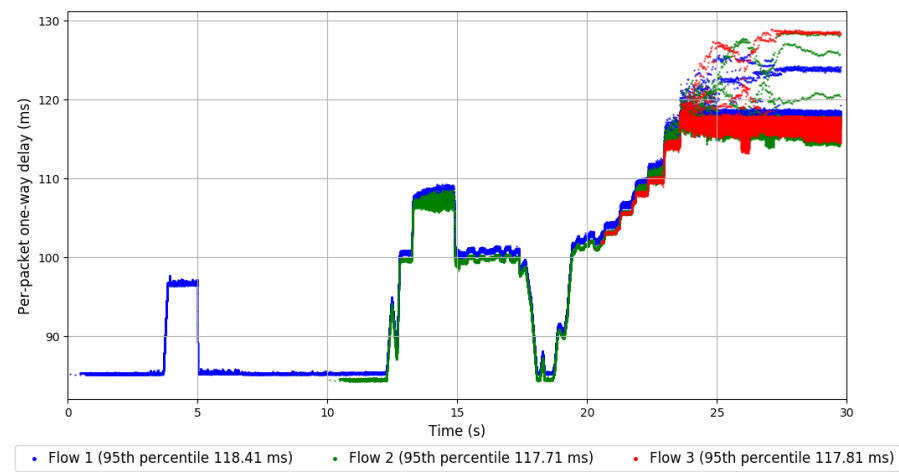
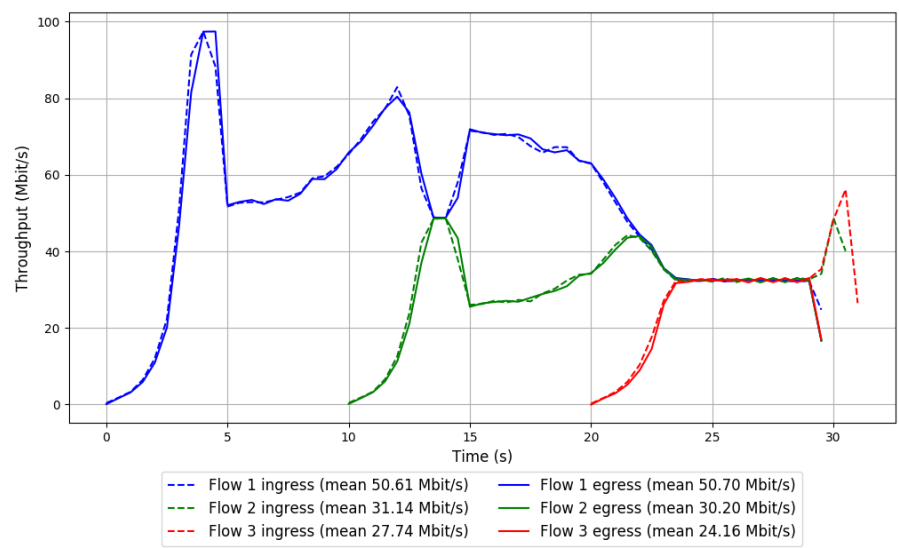
-- Flow 3:

Average throughput: 24.16 Mbit/s

95th percentile per-packet one-way delay: 117.815 ms

Loss rate: 25.19%

Run 8: Report of Vivace-loss — Data Link



Run 9: Statistics of Vivace-loss

Start at: 2018-04-10 21:41:47

End at: 2018-04-10 21:42:17

Local clock offset: -5.934 ms

Remote clock offset: 2.442 ms

Below is generated by plot.py at 2018-04-11 02:36:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 75.32 Mbit/s

95th percentile per-packet one-way delay: 118.214 ms

Loss rate: 0.93%

-- Flow 1:

Average throughput: 47.56 Mbit/s

95th percentile per-packet one-way delay: 116.787 ms

Loss rate: 0.49%

-- Flow 2:

Average throughput: 29.86 Mbit/s

95th percentile per-packet one-way delay: 117.617 ms

Loss rate: 1.22%

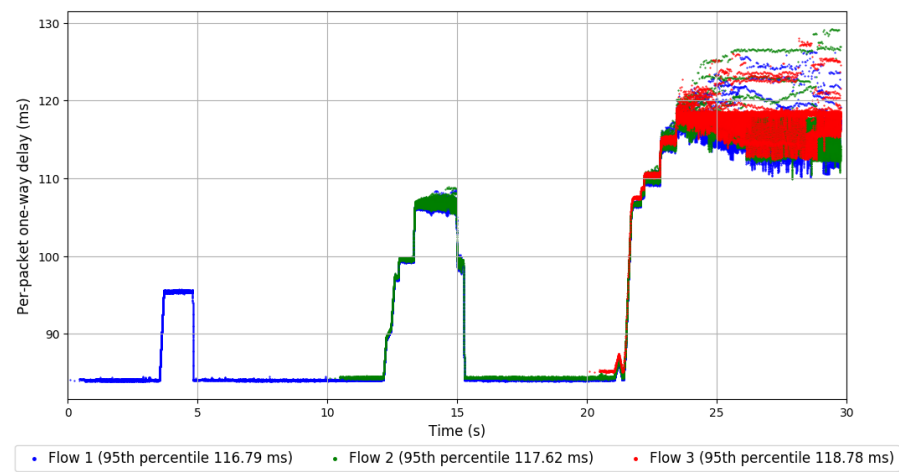
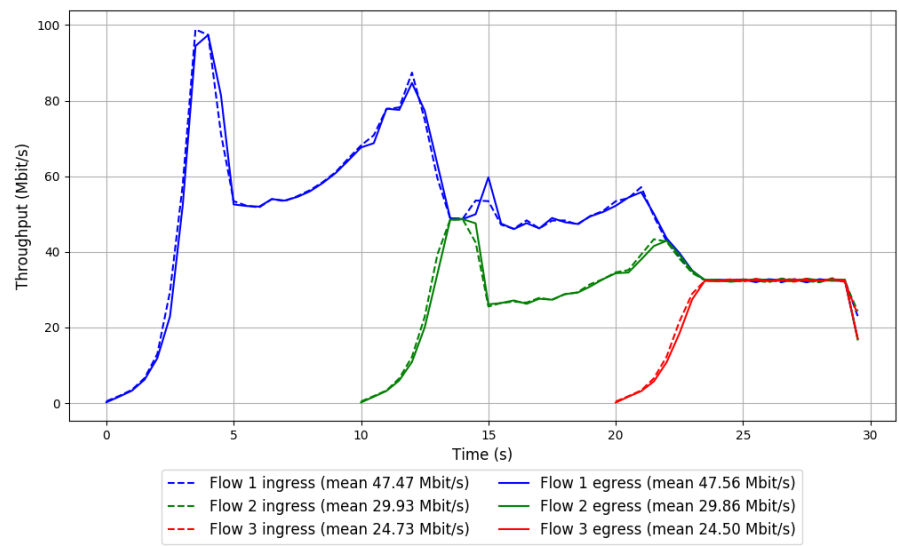
-- Flow 3:

Average throughput: 24.50 Mbit/s

95th percentile per-packet one-way delay: 118.782 ms

Loss rate: 2.82%

Run 9: Report of Vivace-loss — Data Link



Run 10: Statistics of Vivace-loss

Start at: 2018-04-10 22:05:41

End at: 2018-04-10 22:06:11

Local clock offset: -6.306 ms

Remote clock offset: 2.21 ms

Below is generated by plot.py at 2018-04-11 02:36:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 75.61 Mbit/s

95th percentile per-packet one-way delay: 117.337 ms

Loss rate: 0.92%

-- Flow 1:

Average throughput: 47.52 Mbit/s

95th percentile per-packet one-way delay: 117.654 ms

Loss rate: 0.49%

-- Flow 2:

Average throughput: 30.43 Mbit/s

95th percentile per-packet one-way delay: 117.071 ms

Loss rate: 1.16%

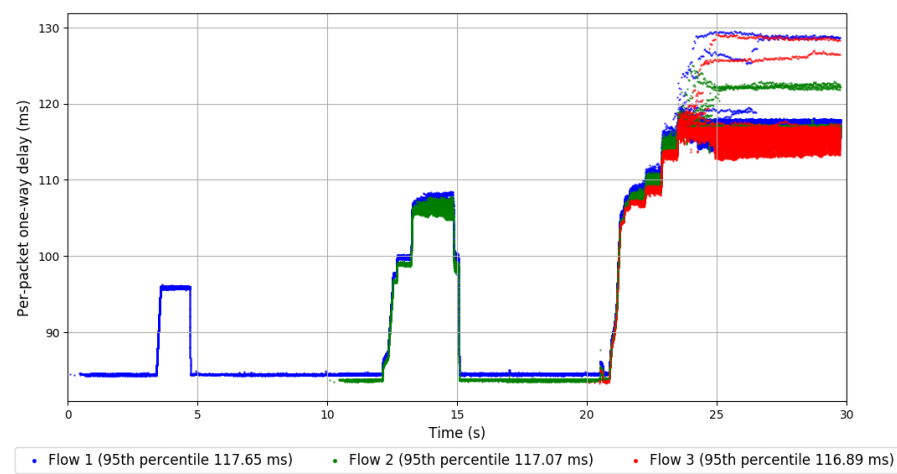
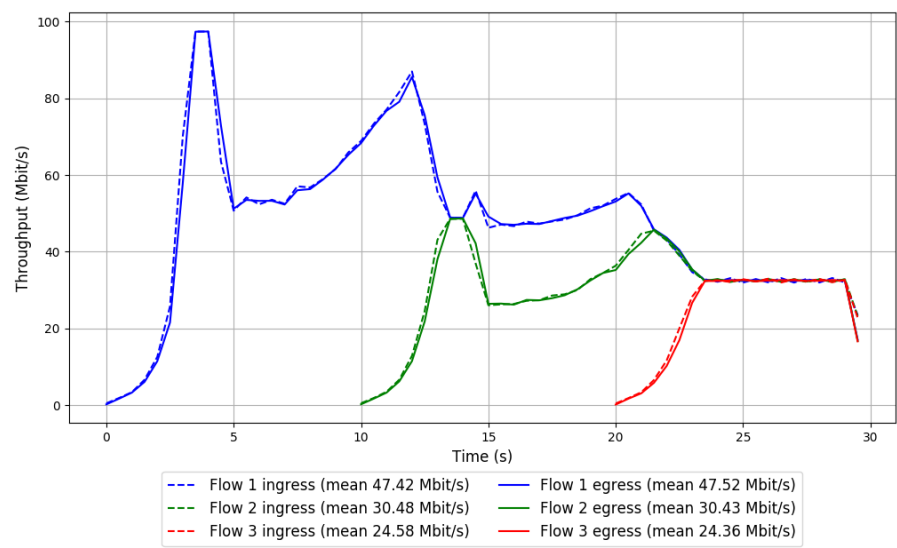
-- Flow 3:

Average throughput: 24.36 Mbit/s

95th percentile per-packet one-way delay: 116.886 ms

Loss rate: 2.85%

Run 10: Report of Vivace-loss — Data Link



Run 1: Statistics of Vivace-LTE

Start at: 2018-04-10 18:10:02

End at: 2018-04-10 18:10:32

Local clock offset: -6.219 ms

Remote clock offset: 2.924 ms

Below is generated by plot.py at 2018-04-11 02:36:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 79.23 Mbit/s

95th percentile per-packet one-way delay: 116.422 ms

Loss rate: 2.09%

-- Flow 1:

Average throughput: 52.00 Mbit/s

95th percentile per-packet one-way delay: 114.930 ms

Loss rate: 1.24%

-- Flow 2:

Average throughput: 30.32 Mbit/s

95th percentile per-packet one-way delay: 117.049 ms

Loss rate: 3.70%

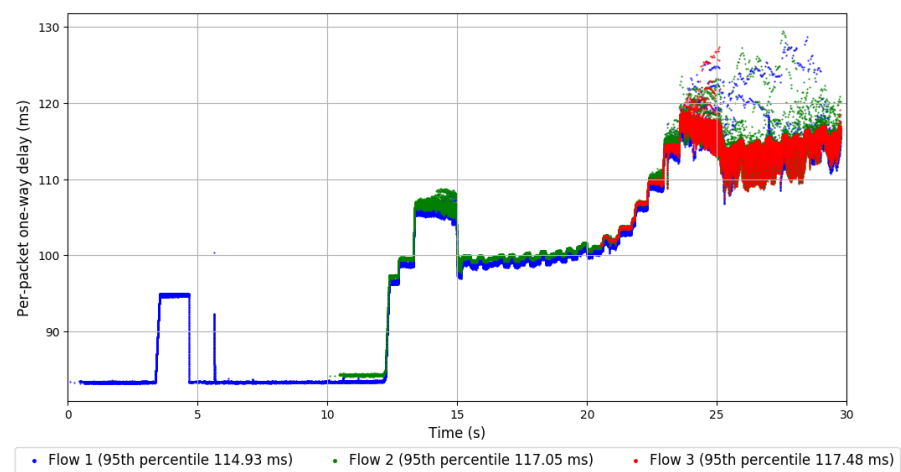
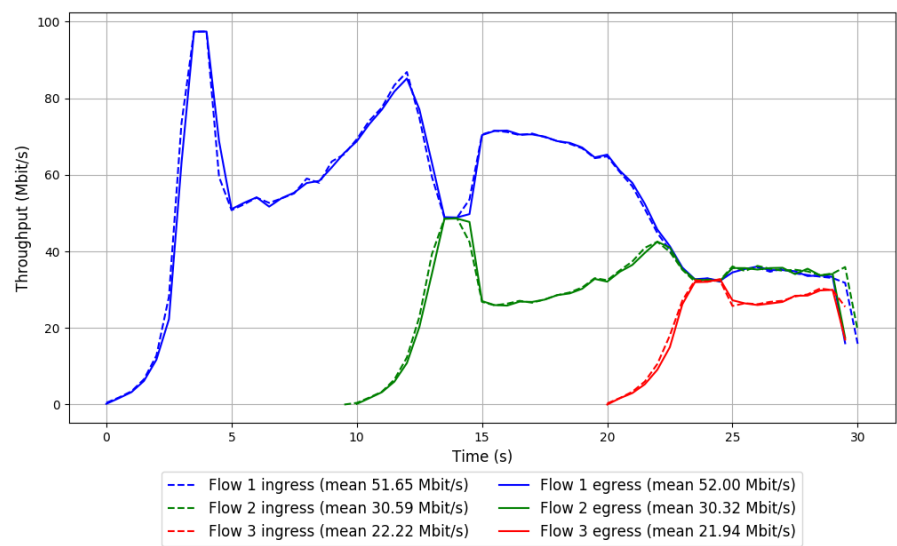
-- Flow 3:

Average throughput: 21.94 Mbit/s

95th percentile per-packet one-way delay: 117.481 ms

Loss rate: 3.60%

Run 1: Report of Vivace-LTE — Data Link



Run 2: Statistics of Vivace-LTE

Start at: 2018-04-10 18:33:58

End at: 2018-04-10 18:34:28

Local clock offset: -4.81 ms

Remote clock offset: 4.425 ms

Below is generated by plot.py at 2018-04-11 02:36:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 78.86 Mbit/s

95th percentile per-packet one-way delay: 117.947 ms

Loss rate: 0.90%

-- Flow 1:

Average throughput: 51.34 Mbit/s

95th percentile per-packet one-way delay: 117.050 ms

Loss rate: 0.45%

-- Flow 2:

Average throughput: 30.68 Mbit/s

95th percentile per-packet one-way delay: 118.405 ms

Loss rate: 1.16%

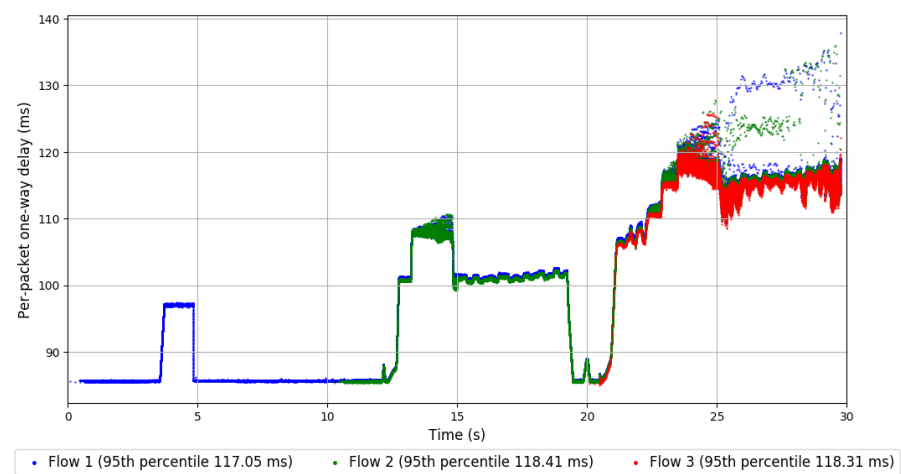
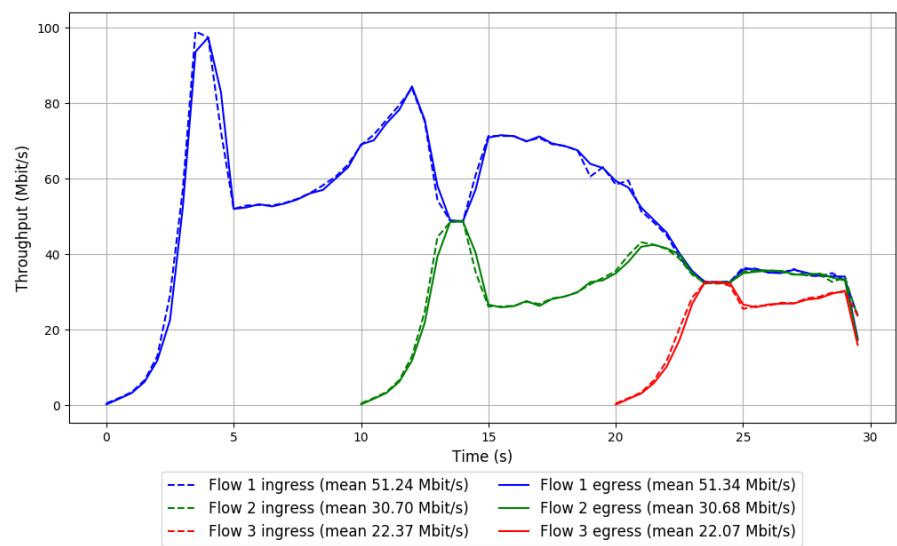
-- Flow 3:

Average throughput: 22.07 Mbit/s

95th percentile per-packet one-way delay: 118.310 ms

Loss rate: 3.33%

Run 2: Report of Vivace-LTE — Data Link



Run 3: Statistics of Vivace-LTE

Start at: 2018-04-10 18:58:06

End at: 2018-04-10 18:58:36

Local clock offset: -5.418 ms

Remote clock offset: 8.43 ms

Below is generated by plot.py at 2018-04-11 02:36:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 78.92 Mbit/s

95th percentile per-packet one-way delay: 112.098 ms

Loss rate: 2.05%

-- Flow 1:

Average throughput: 51.69 Mbit/s

95th percentile per-packet one-way delay: 111.480 ms

Loss rate: 0.51%

-- Flow 2:

Average throughput: 30.42 Mbit/s

95th percentile per-packet one-way delay: 112.367 ms

Loss rate: 3.63%

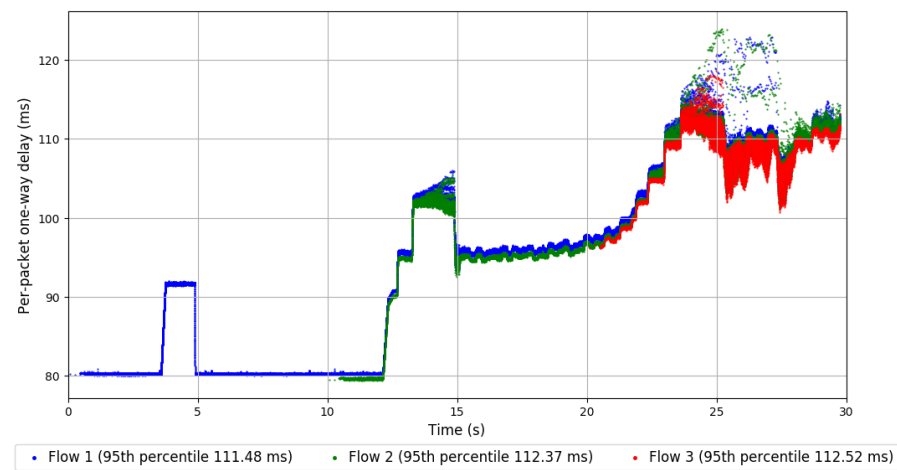
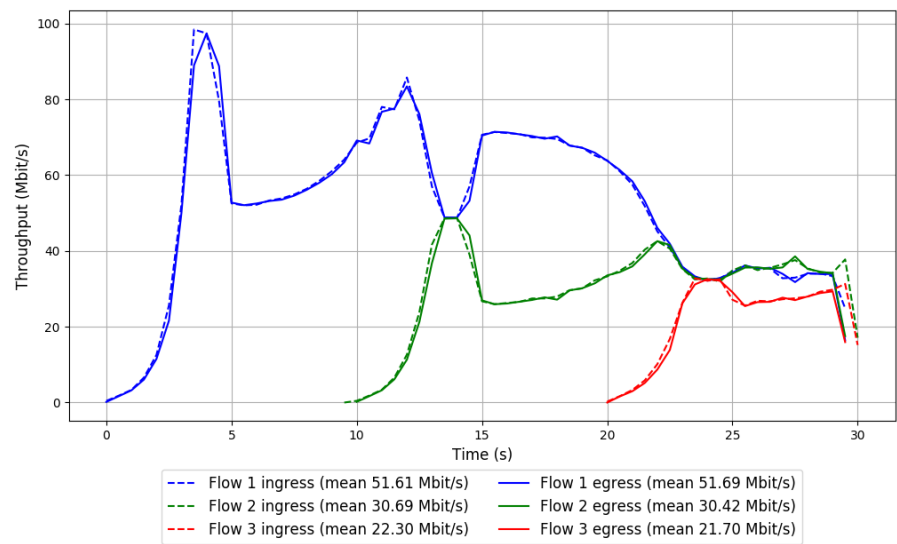
-- Flow 3:

Average throughput: 21.70 Mbit/s

95th percentile per-packet one-way delay: 112.524 ms

Loss rate: 8.18%

Run 3: Report of Vivace-LTE — Data Link



Run 4: Statistics of Vivace-LTE

Start at: 2018-04-10 19:22:17

End at: 2018-04-10 19:22:47

Local clock offset: -6.38 ms

Remote clock offset: 7.105 ms

Below is generated by plot.py at 2018-04-11 02:36:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 79.15 Mbit/s

95th percentile per-packet one-way delay: 111.984 ms

Loss rate: 0.88%

-- Flow 1:

Average throughput: 52.01 Mbit/s

95th percentile per-packet one-way delay: 111.486 ms

Loss rate: 0.44%

-- Flow 2:

Average throughput: 29.81 Mbit/s

95th percentile per-packet one-way delay: 112.622 ms

Loss rate: 1.19%

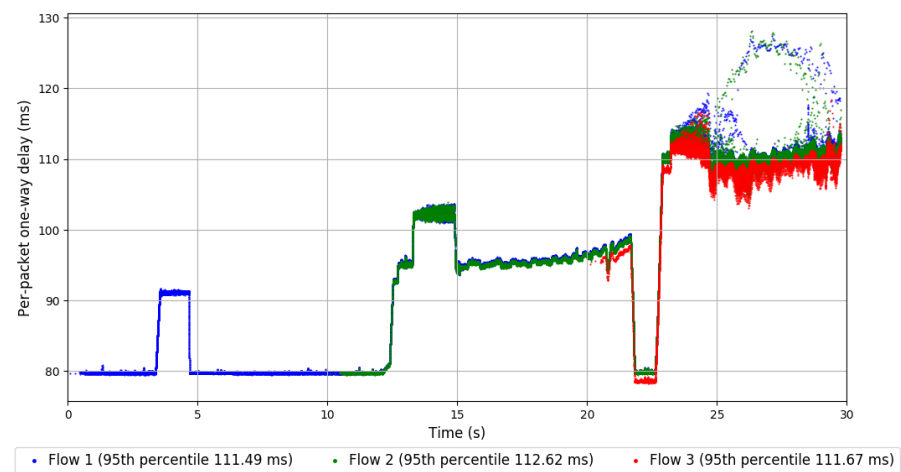
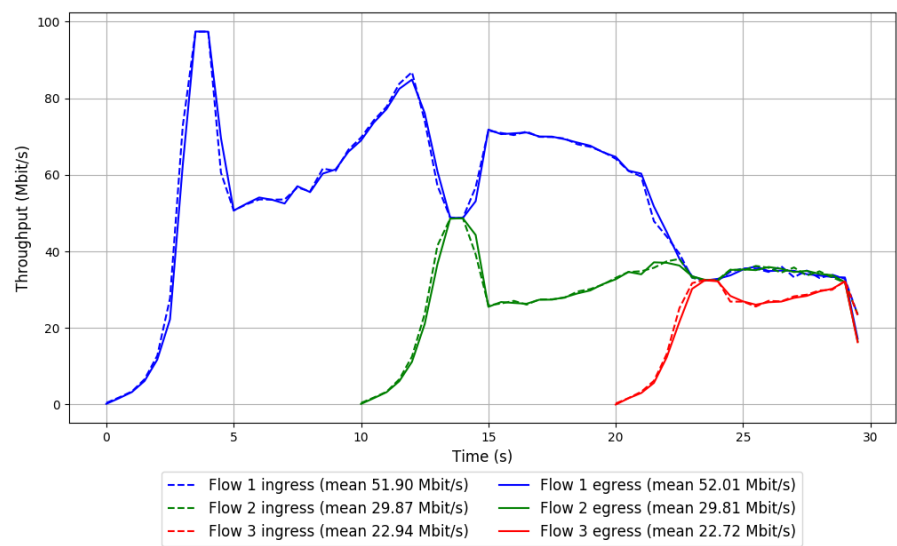
-- Flow 3:

Average throughput: 22.72 Mbit/s

95th percentile per-packet one-way delay: 111.667 ms

Loss rate: 3.07%

Run 4: Report of Vivace-LTE — Data Link



Run 5: Statistics of Vivace-LTE

Start at: 2018-04-10 19:46:16

End at: 2018-04-10 19:46:46

Local clock offset: -5.84 ms

Remote clock offset: 3.036 ms

Below is generated by plot.py at 2018-04-11 02:36:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 78.65 Mbit/s

95th percentile per-packet one-way delay: 117.030 ms

Loss rate: 0.72%

-- Flow 1:

Average throughput: 51.78 Mbit/s

95th percentile per-packet one-way delay: 114.779 ms

Loss rate: 0.37%

-- Flow 2:

Average throughput: 30.06 Mbit/s

95th percentile per-packet one-way delay: 117.372 ms

Loss rate: 0.98%

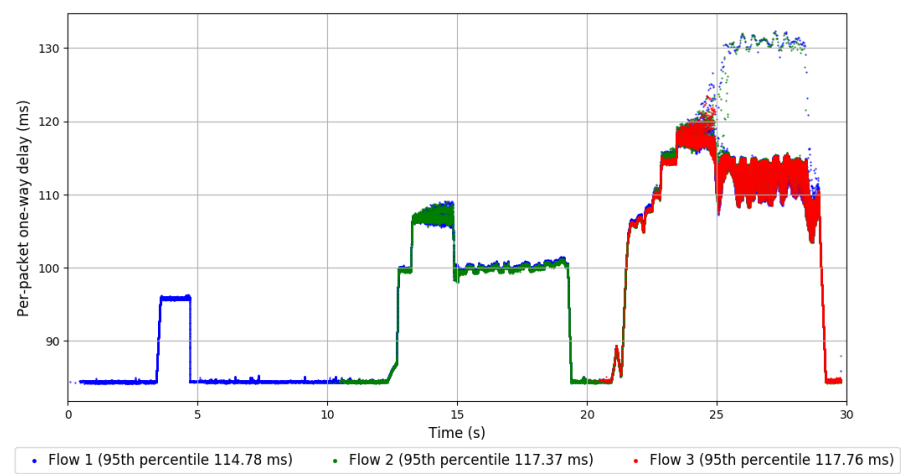
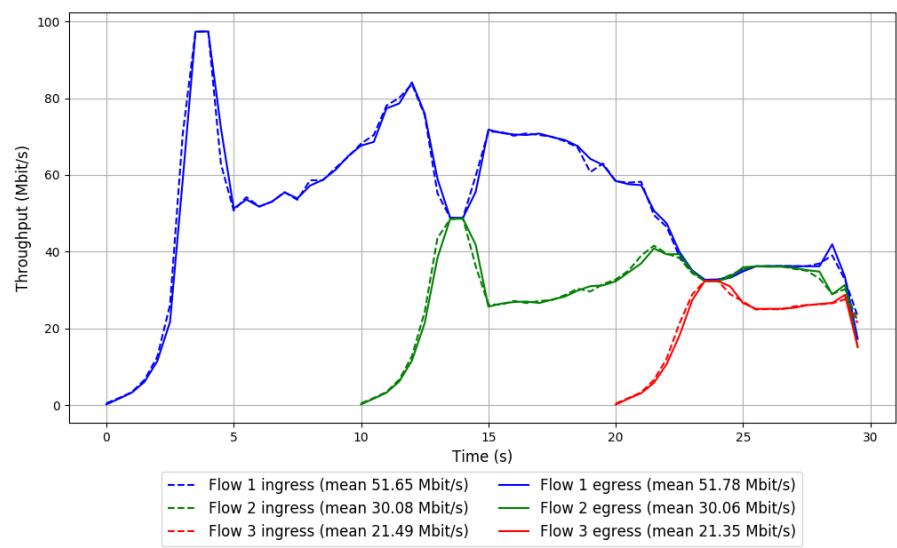
-- Flow 3:

Average throughput: 21.35 Mbit/s

95th percentile per-packet one-way delay: 117.764 ms

Loss rate: 2.54%

Run 5: Report of Vivace-LTE — Data Link



Run 6: Statistics of Vivace-LTE

Start at: 2018-04-10 20:10:46

End at: 2018-04-10 20:11:16

Local clock offset: -6.601 ms

Remote clock offset: 3.763 ms

Below is generated by plot.py at 2018-04-11 02:36:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 78.50 Mbit/s

95th percentile per-packet one-way delay: 116.841 ms

Loss rate: 1.79%

-- Flow 1:

Average throughput: 51.15 Mbit/s

95th percentile per-packet one-way delay: 115.613 ms

Loss rate: 1.18%

-- Flow 2:

Average throughput: 30.56 Mbit/s

95th percentile per-packet one-way delay: 117.285 ms

Loss rate: 1.35%

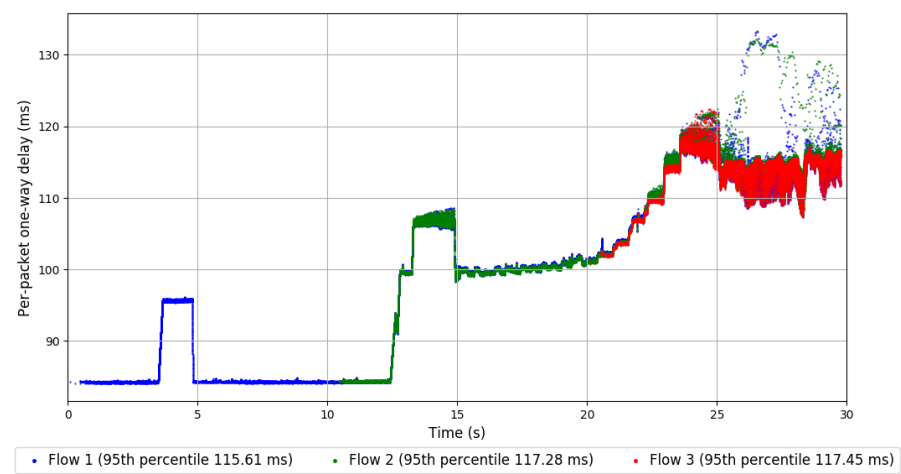
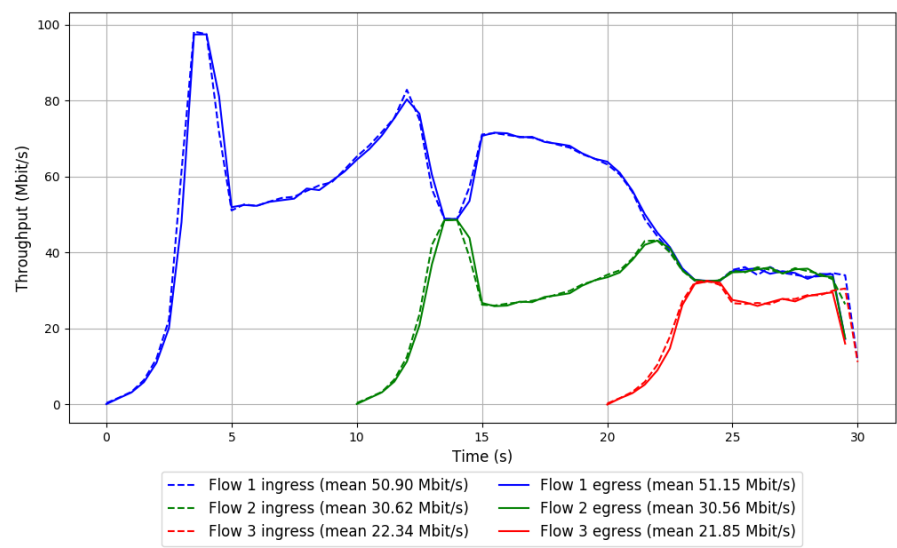
-- Flow 3:

Average throughput: 21.85 Mbit/s

95th percentile per-packet one-way delay: 117.450 ms

Loss rate: 7.18%

Run 6: Report of Vivace-LTE — Data Link



Run 7: Statistics of Vivace-LTE

Start at: 2018-04-10 20:34:50

End at: 2018-04-10 20:35:20

Local clock offset: -4.871 ms

Remote clock offset: 4.206 ms

Below is generated by plot.py at 2018-04-11 02:37:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 77.62 Mbit/s

95th percentile per-packet one-way delay: 117.833 ms

Loss rate: 0.91%

-- Flow 1:

Average throughput: 51.15 Mbit/s

95th percentile per-packet one-way delay: 115.726 ms

Loss rate: 0.53%

-- Flow 2:

Average throughput: 29.37 Mbit/s

95th percentile per-packet one-way delay: 118.484 ms

Loss rate: 1.17%

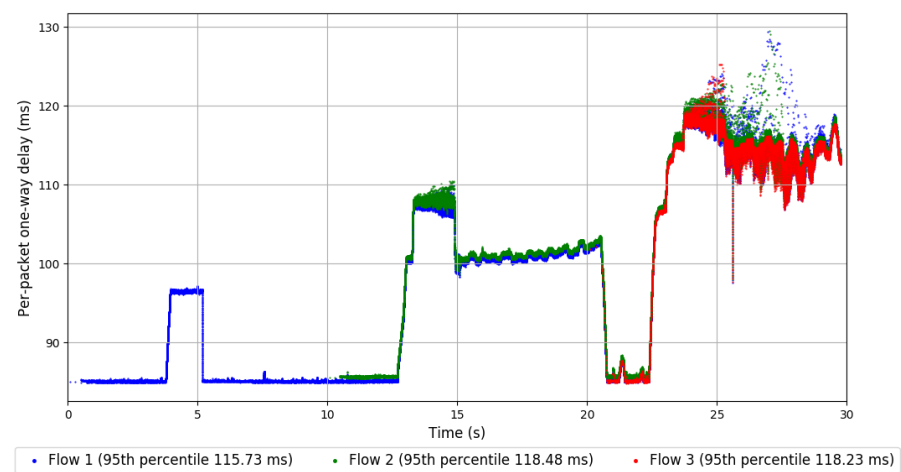
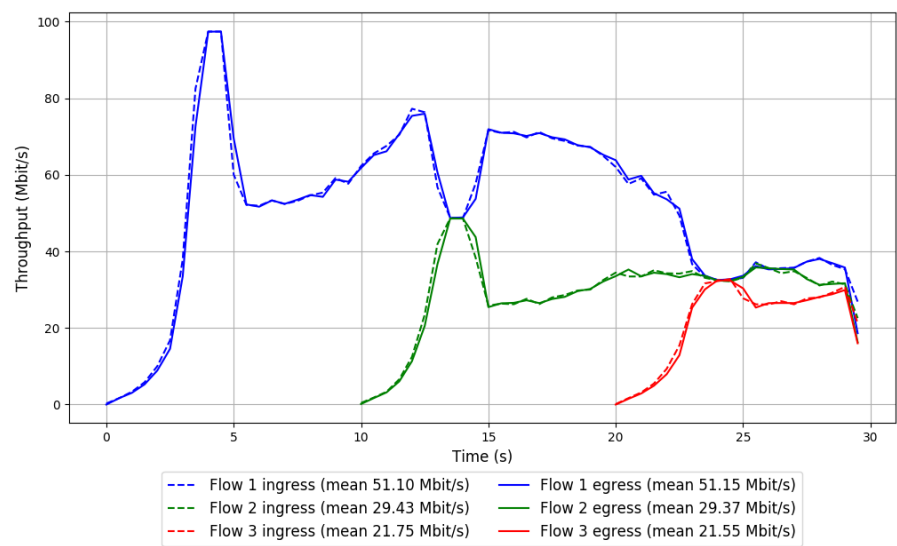
-- Flow 3:

Average throughput: 21.55 Mbit/s

95th percentile per-packet one-way delay: 118.228 ms

Loss rate: 2.97%

Run 7: Report of Vivace-LTE — Data Link



Run 8: Statistics of Vivace-LTE

Start at: 2018-04-10 20:58:53

End at: 2018-04-10 20:59:23

Local clock offset: -5.446 ms

Remote clock offset: 2.213 ms

Below is generated by plot.py at 2018-04-11 02:37:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 78.90 Mbit/s

95th percentile per-packet one-way delay: 116.558 ms

Loss rate: 0.88%

-- Flow 1:

Average throughput: 51.49 Mbit/s

95th percentile per-packet one-way delay: 115.889 ms

Loss rate: 0.45%

-- Flow 2:

Average throughput: 30.52 Mbit/s

95th percentile per-packet one-way delay: 116.812 ms

Loss rate: 1.15%

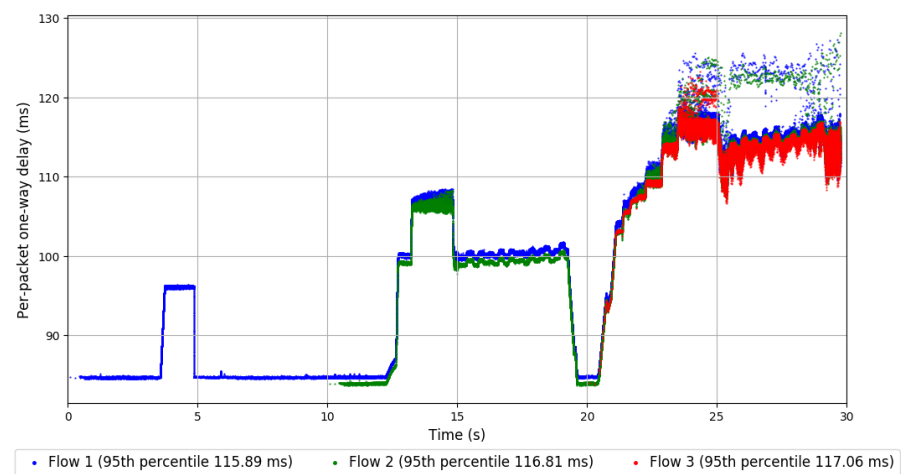
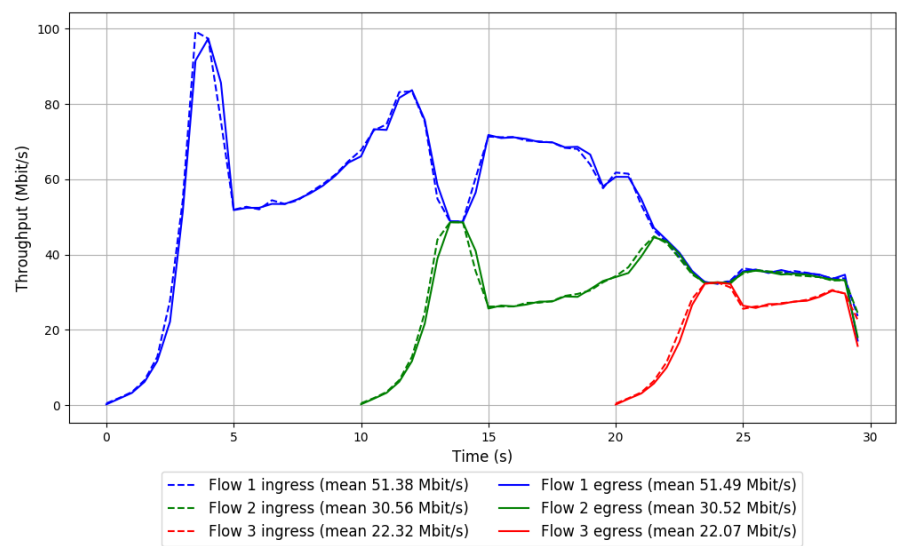
-- Flow 3:

Average throughput: 22.07 Mbit/s

95th percentile per-packet one-way delay: 117.064 ms

Loss rate: 3.11%

Run 8: Report of Vivace-LTE — Data Link



Run 9: Statistics of Vivace-LTE

Start at: 2018-04-10 21:23:04

End at: 2018-04-10 21:23:34

Local clock offset: -5.402 ms

Remote clock offset: 7.243 ms

Below is generated by plot.py at 2018-04-11 02:37:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 78.95 Mbit/s

95th percentile per-packet one-way delay: 113.686 ms

Loss rate: 2.69%

-- Flow 1:

Average throughput: 51.55 Mbit/s

95th percentile per-packet one-way delay: 112.771 ms

Loss rate: 0.52%

-- Flow 2:

Average throughput: 30.51 Mbit/s

95th percentile per-packet one-way delay: 113.781 ms

Loss rate: 5.13%

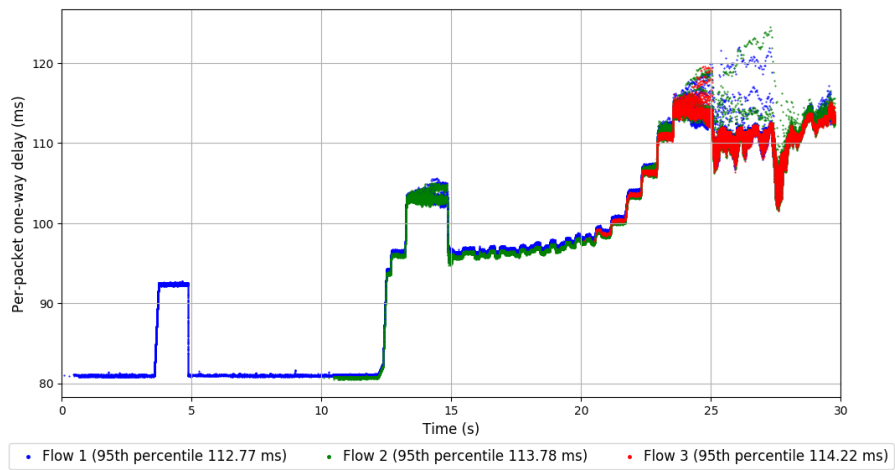
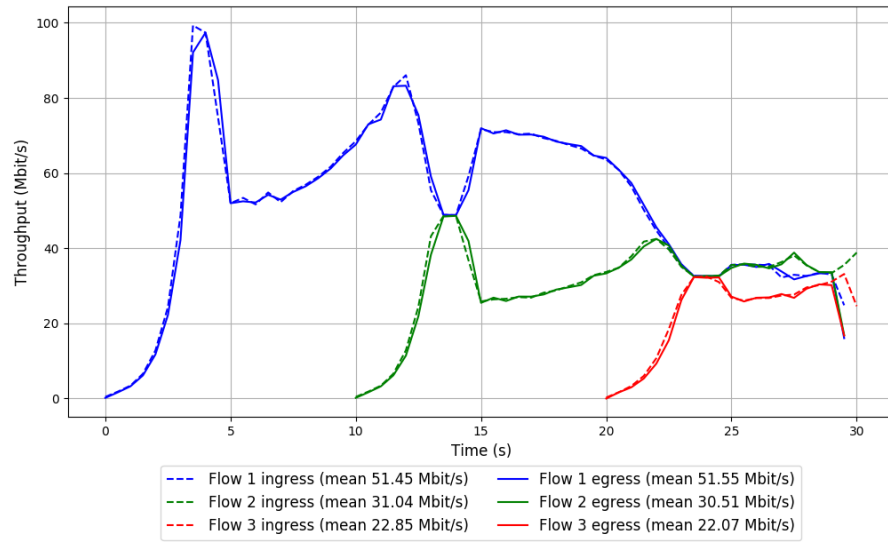
-- Flow 3:

Average throughput: 22.07 Mbit/s

95th percentile per-packet one-way delay: 114.219 ms

Loss rate: 10.21%

Run 9: Report of Vivace-LTE — Data Link



Run 10: Statistics of Vivace-LTE

Start at: 2018-04-10 21:47:18

End at: 2018-04-10 21:47:48

Local clock offset: -5.73 ms

Remote clock offset: 7.252 ms

Below is generated by plot.py at 2018-04-11 02:37:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 68.67 Mbit/s

95th percentile per-packet one-way delay: 80.422 ms

Loss rate: 3.26%

-- Flow 1:

Average throughput: 61.93 Mbit/s

95th percentile per-packet one-way delay: 79.662 ms

Loss rate: 3.16%

-- Flow 2:

Average throughput: 6.58 Mbit/s

95th percentile per-packet one-way delay: 80.470 ms

Loss rate: 3.83%

-- Flow 3:

Average throughput: 7.30 Mbit/s

95th percentile per-packet one-way delay: 80.499 ms

Loss rate: 4.66%

Run 10: Report of Vivace-LTE — Data Link

