

Pantheon Report

Generated at 2018-01-02 13:40:42 (UTC).

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

Repeated the test of 14 congestion control schemes 10 times.

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

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

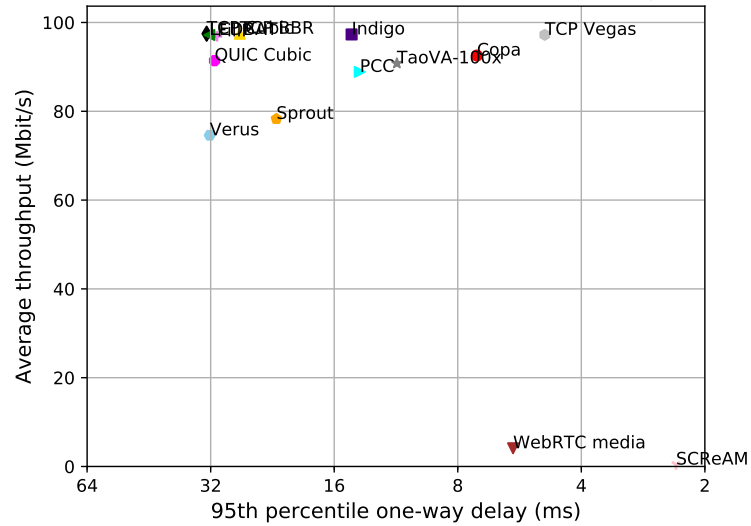
Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo_fast**).

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

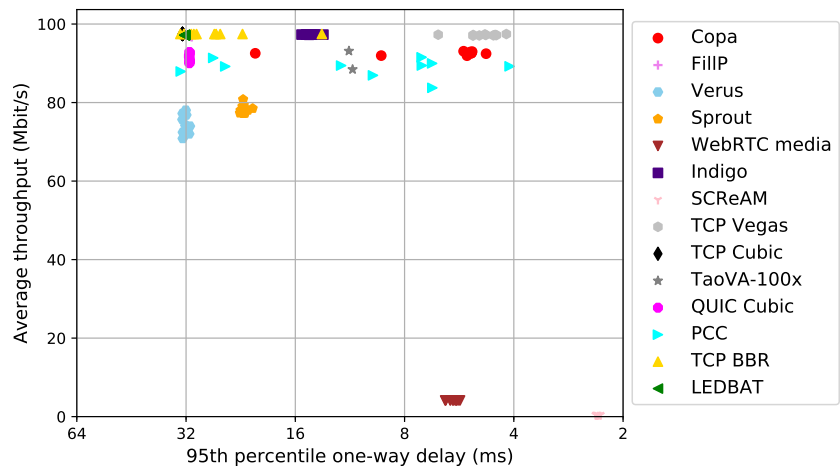
Git summary:

```
branch: master @ 904a5750834816b1e46a2c86405d707788d27c16
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ dcaef6b00654e660f73f7ed679d2eab61ce08639
third_party/genericCC @ 80b516c448f795fd6e9675f7177b69c622f07da8
third_party/indigo @ b19f3730105f9aa95452552af924e3719b03cc55
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
  M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ fb1053193c2861da659ba9013db26744ccfcf993
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
  M receiver/src/buffer.h
  M receiver/src/core.cpp
  M sender/src/buffer.h
  M sender/src/core.cpp
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eaaeb30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
  M src/examples/cellsim.cc
  M src/examples/sproutbt2.cc
  M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/webrtc @ a488197ddd041ace68a42849b2540ad834825f42
```

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



test from AWS Brazil 1 Ethernet to Brazil 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	63.24	42.31	18.27	28.10	24.48	28.37	0.07	0.00	0.03
TCP Cubic	10	64.04	36.40	27.83	32.64	32.77	32.88	0.03	0.08	0.11
LEDBAT	10	62.88	36.80	29.67	32.20	32.41	32.44	0.03	0.06	0.09
PCC	10	69.25	22.25	14.66	10.27	13.77	13.90	0.06	0.11	0.15
QUIC Cubic	10	57.78	36.11	29.41	31.23	31.38	31.39	0.12	0.22	0.20
SCReAM	10	0.22	0.22	0.22	2.35	2.35	2.36	0.00	0.00	0.00
WebRTC media	10	2.32	1.44	0.35	5.57	5.90	7.06	0.00	0.00	0.06
Sprout	10	42.75	37.92	31.20	20.98	21.81	23.91	0.00	0.00	0.00
TaoVA-100x	2	51.05	49.41	28.31	10.59	11.61	20.12	0.08	0.01	0.42
TCP Vegas	10	48.54	45.85	54.67	6.77	4.53	4.67	0.00	0.00	0.00
Verus	9	45.49	30.48	27.25	30.51	32.52	32.81	9.49	19.49	31.74
Copa	10	58.76	40.30	28.84	5.46	7.35	10.46	0.00	0.00	0.00
FillP	10	58.64	40.35	34.40	30.86	30.89	30.90	17.19	24.07	31.23
Indigo	10	56.18	42.42	39.68	13.75	14.61	16.87	0.00	0.00	0.00

Run 1: Statistics of TCP BBR

Start at: 2018-01-02 10:17:01

End at: 2018-01-02 10:17:31

Local clock offset: -0.381 ms

Remote clock offset: 0.698 ms

Below is generated by plot.py at 2018-01-02 13:18:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.46 Mbit/s

95th percentile per-packet one-way delay: 26.446 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 64.80 Mbit/s

95th percentile per-packet one-way delay: 26.467 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 43.78 Mbit/s

95th percentile per-packet one-way delay: 25.492 ms

Loss rate: 0.00%

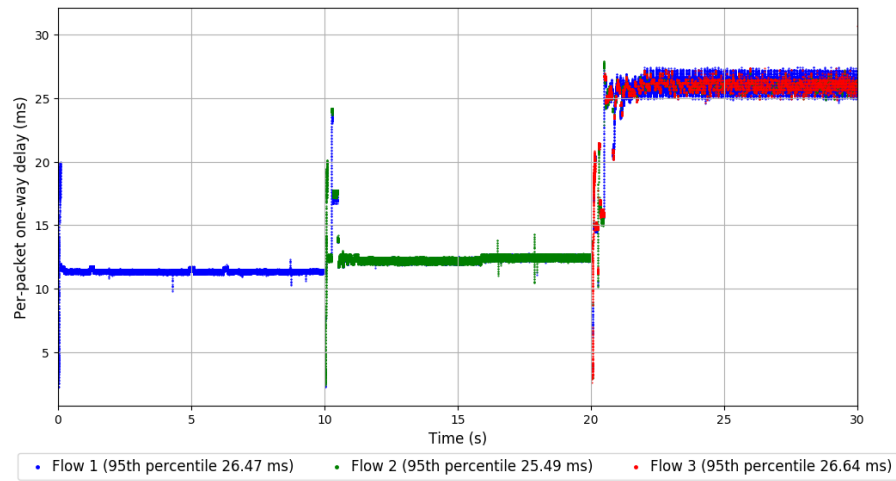
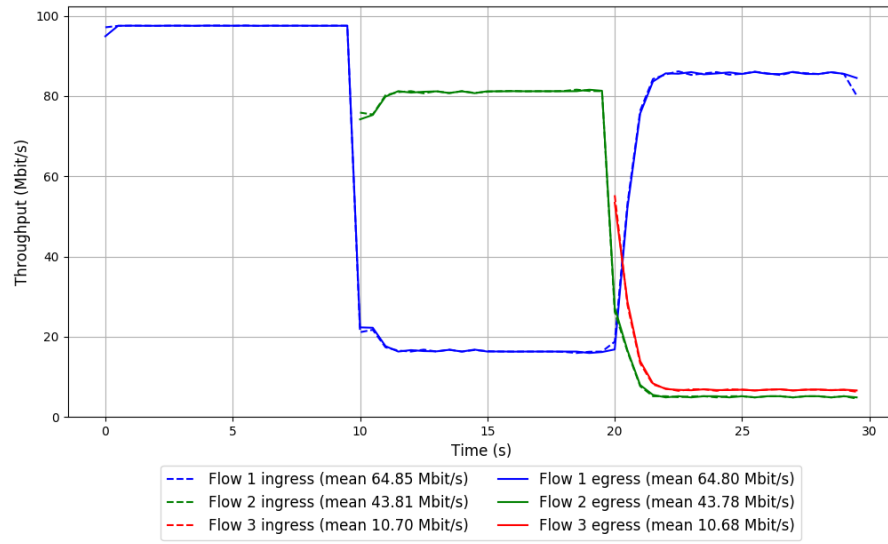
-- Flow 3:

Average throughput: 10.68 Mbit/s

95th percentile per-packet one-way delay: 26.635 ms

Loss rate: 0.00%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-01-02 10:34:05

End at: 2018-01-02 10:34:35

Local clock offset: -0.408 ms

Remote clock offset: 0.678 ms

Below is generated by plot.py at 2018-01-02 13:18:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.46 Mbit/s

95th percentile per-packet one-way delay: 30.965 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 66.32 Mbit/s

95th percentile per-packet one-way delay: 30.990 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 41.26 Mbit/s

95th percentile per-packet one-way delay: 29.766 ms

Loss rate: 0.00%

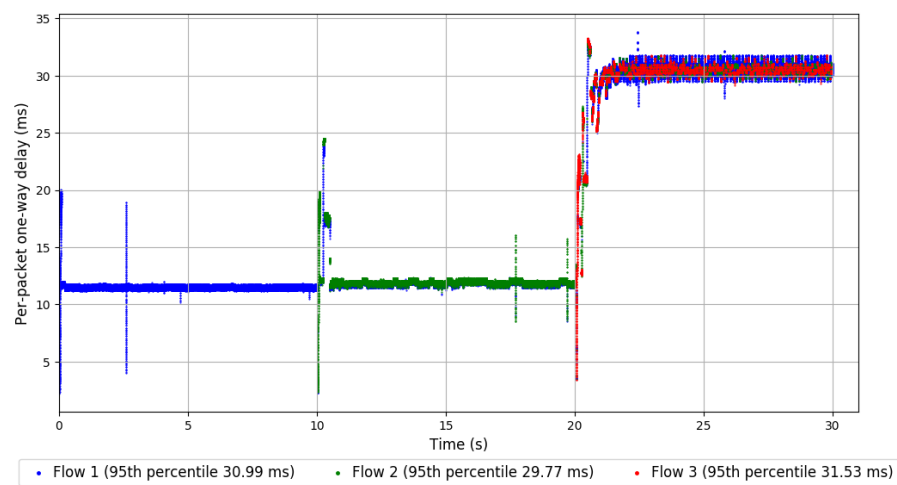
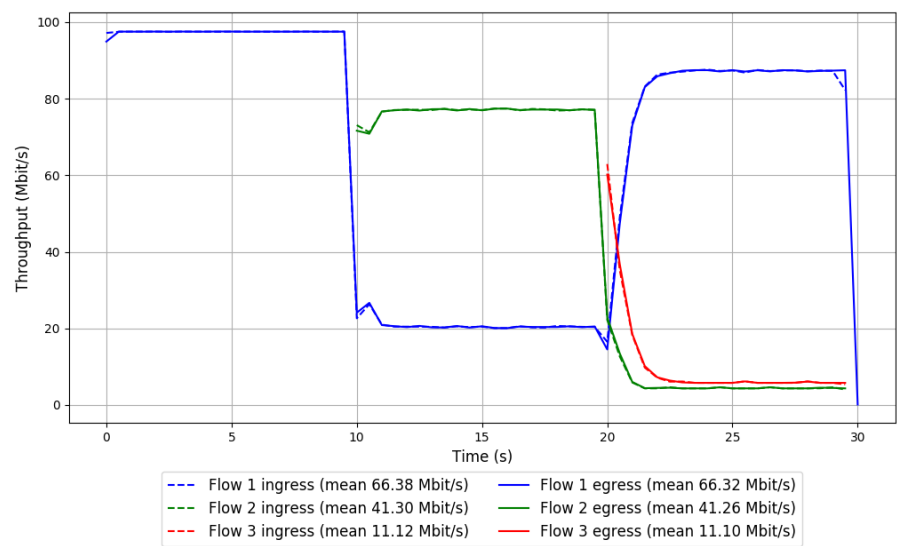
-- Flow 3:

Average throughput: 11.10 Mbit/s

95th percentile per-packet one-way delay: 31.534 ms

Loss rate: 0.01%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-01-02 10:51:09

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

Local clock offset: -0.426 ms

Remote clock offset: 0.614 ms

Below is generated by plot.py at 2018-01-02 13:18:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.46 Mbit/s

95th percentile per-packet one-way delay: 32.421 ms

Loss rate: 0.24%

-- Flow 1:

Average throughput: 65.44 Mbit/s

95th percentile per-packet one-way delay: 32.438 ms

Loss rate: 0.35%

-- Flow 2:

Average throughput: 36.89 Mbit/s

95th percentile per-packet one-way delay: 24.228 ms

Loss rate: 0.02%

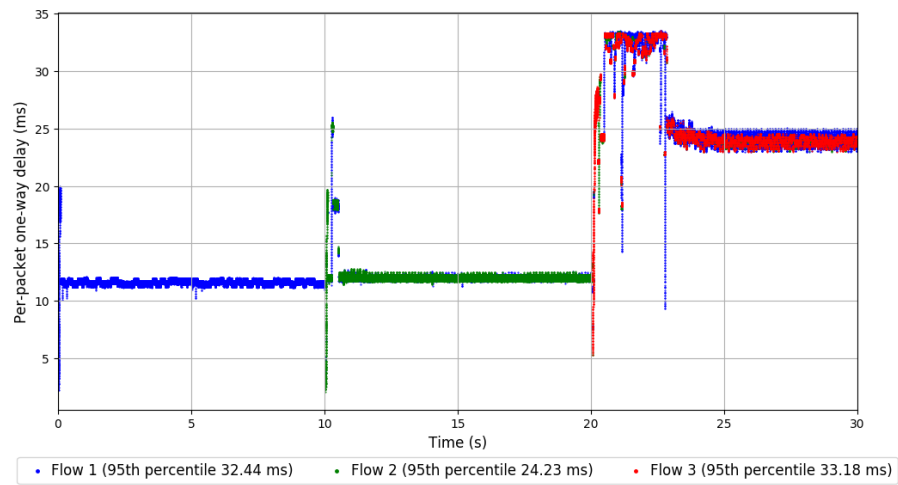
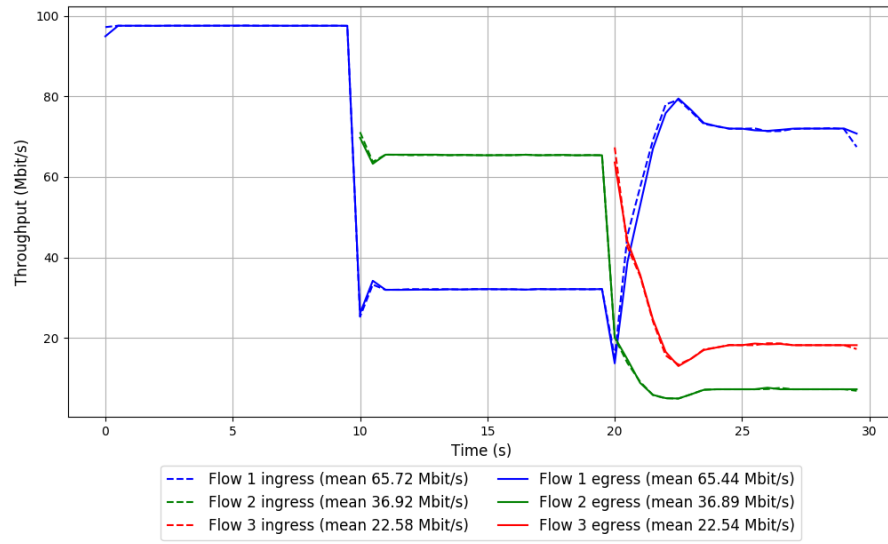
-- Flow 3:

Average throughput: 22.54 Mbit/s

95th percentile per-packet one-way delay: 33.176 ms

Loss rate: 0.05%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-01-02 11:08:14

End at: 2018-01-02 11:08:44

Local clock offset: -0.471 ms

Remote clock offset: 0.539 ms

Below is generated by plot.py at 2018-01-02 13:18:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.46 Mbit/s

95th percentile per-packet one-way delay: 29.943 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 65.55 Mbit/s

95th percentile per-packet one-way delay: 29.966 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 42.41 Mbit/s

95th percentile per-packet one-way delay: 28.705 ms

Loss rate: 0.00%

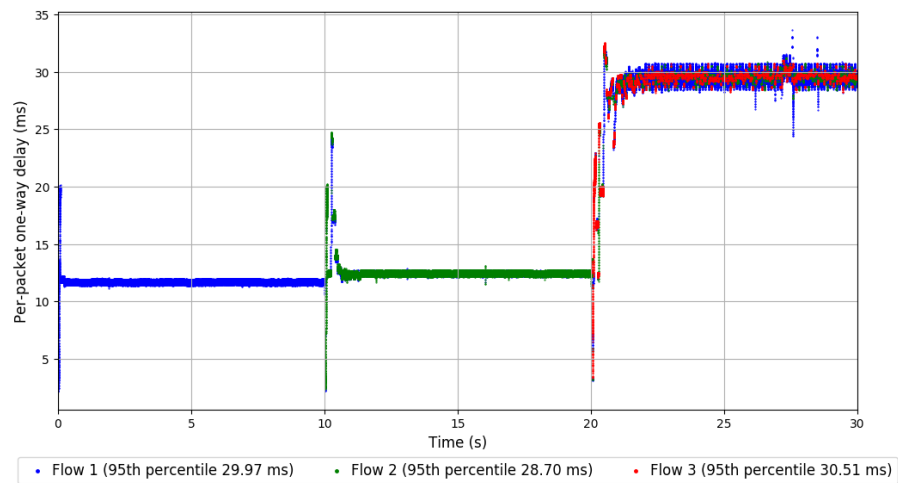
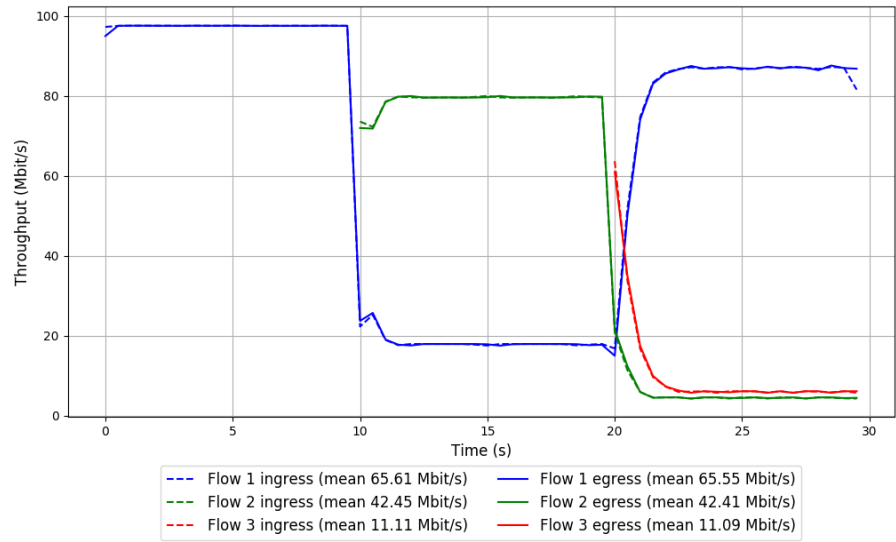
-- Flow 3:

Average throughput: 11.09 Mbit/s

95th percentile per-packet one-way delay: 30.512 ms

Loss rate: 0.00%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-01-02 11:25:19

End at: 2018-01-02 11:25:49

Local clock offset: -0.494 ms

Remote clock offset: 0.556 ms

Below is generated by plot.py at 2018-01-02 13:18:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.46 Mbit/s

95th percentile per-packet one-way delay: 22.366 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 61.10 Mbit/s

95th percentile per-packet one-way delay: 31.253 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 46.00 Mbit/s

95th percentile per-packet one-way delay: 13.173 ms

Loss rate: 0.00%

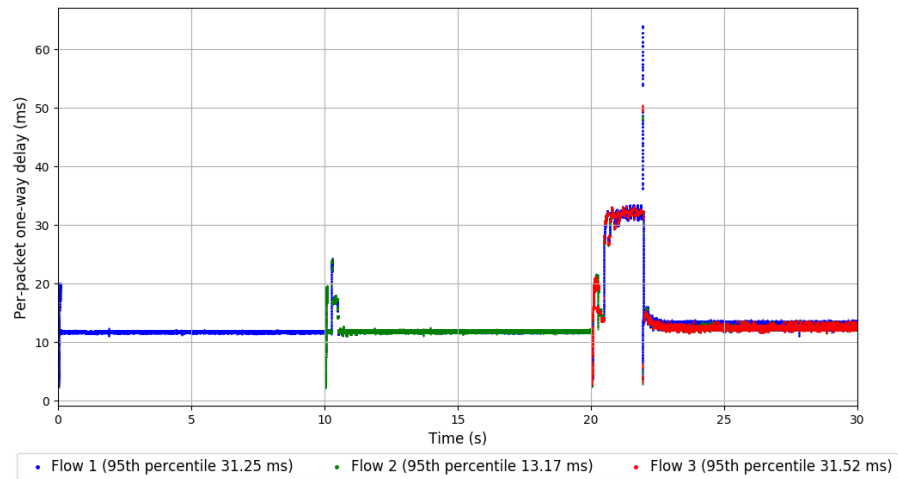
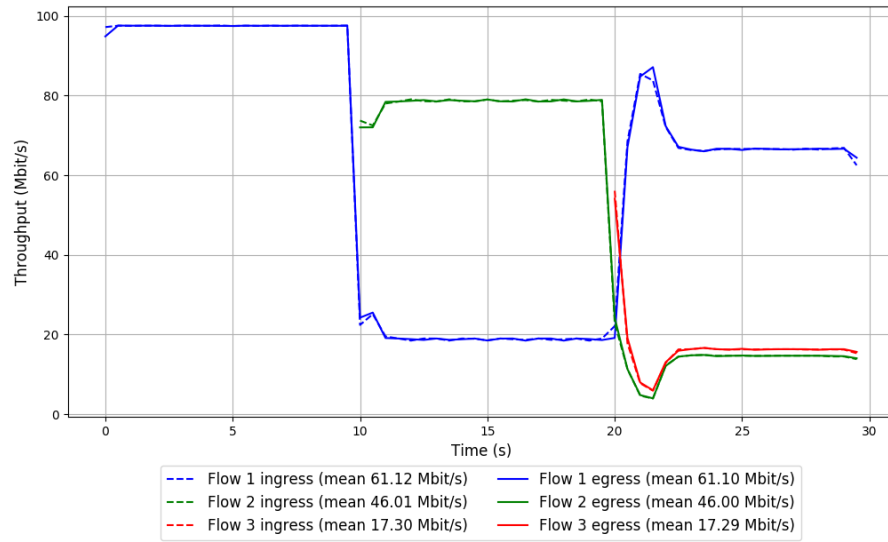
-- Flow 3:

Average throughput: 17.29 Mbit/s

95th percentile per-packet one-way delay: 31.524 ms

Loss rate: 0.00%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-01-02 11:42:24

End at: 2018-01-02 11:42:54

Local clock offset: -0.373 ms

Remote clock offset: 0.53 ms

Below is generated by plot.py at 2018-01-02 13:18:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.45 Mbit/s

95th percentile per-packet one-way delay: 26.740 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 65.36 Mbit/s

95th percentile per-packet one-way delay: 26.849 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 43.00 Mbit/s

95th percentile per-packet one-way delay: 24.277 ms

Loss rate: 0.00%

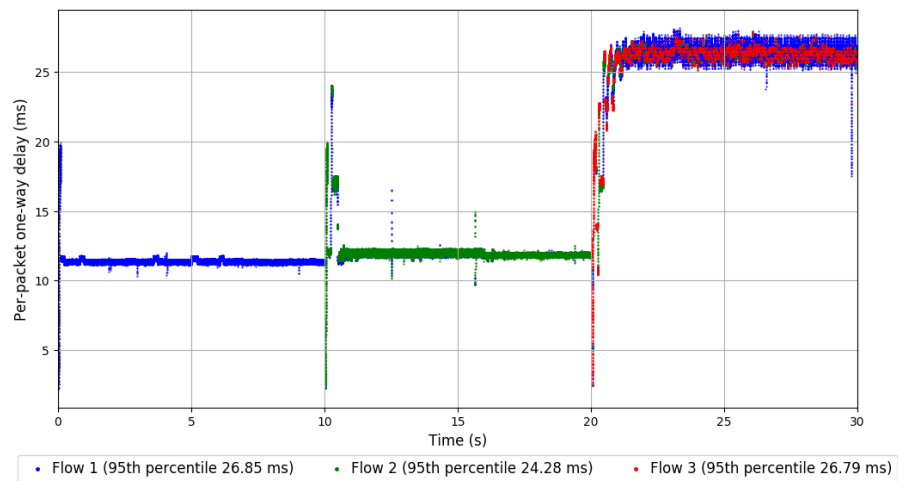
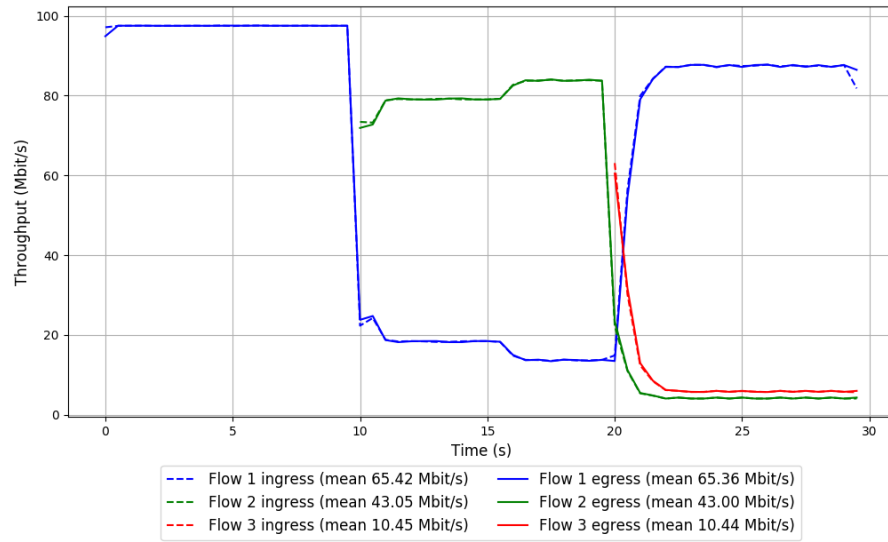
-- Flow 3:

Average throughput: 10.44 Mbit/s

95th percentile per-packet one-way delay: 26.787 ms

Loss rate: 0.00%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-01-02 11:59:29

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

Local clock offset: -0.361 ms

Remote clock offset: 0.509 ms

Below is generated by plot.py at 2018-01-02 13:18:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.46 Mbit/s

95th percentile per-packet one-way delay: 33.182 ms

Loss rate: 0.24%

-- Flow 1:

Average throughput: 67.05 Mbit/s

95th percentile per-packet one-way delay: 33.219 ms

Loss rate: 0.34%

-- Flow 2:

Average throughput: 40.44 Mbit/s

95th percentile per-packet one-way delay: 31.726 ms

Loss rate: 0.00%

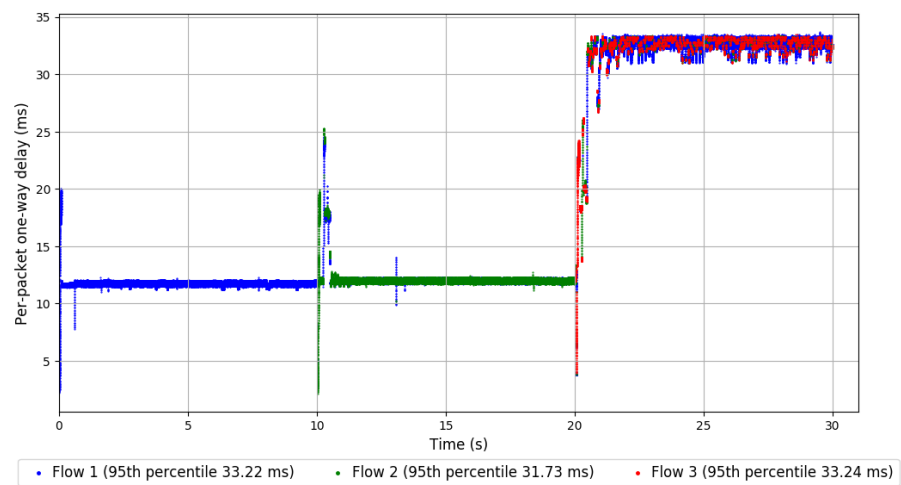
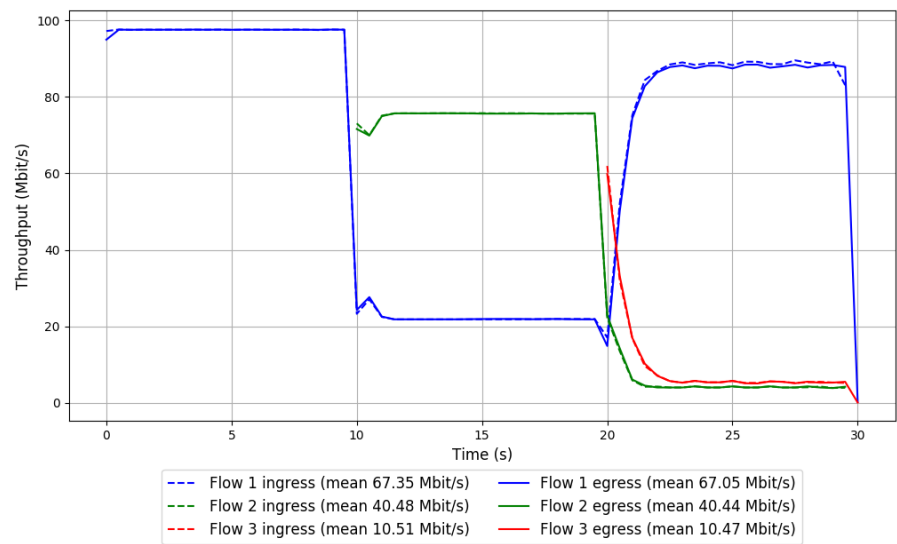
-- Flow 3:

Average throughput: 10.47 Mbit/s

95th percentile per-packet one-way delay: 33.244 ms

Loss rate: 0.20%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-01-02 12:16:37

End at: 2018-01-02 12:17:07

Local clock offset: -0.321 ms

Remote clock offset: 0.43 ms

Below is generated by plot.py at 2018-01-02 13:18:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.46 Mbit/s

95th percentile per-packet one-way delay: 25.760 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 65.67 Mbit/s

95th percentile per-packet one-way delay: 25.927 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 42.20 Mbit/s

95th percentile per-packet one-way delay: 24.712 ms

Loss rate: 0.00%

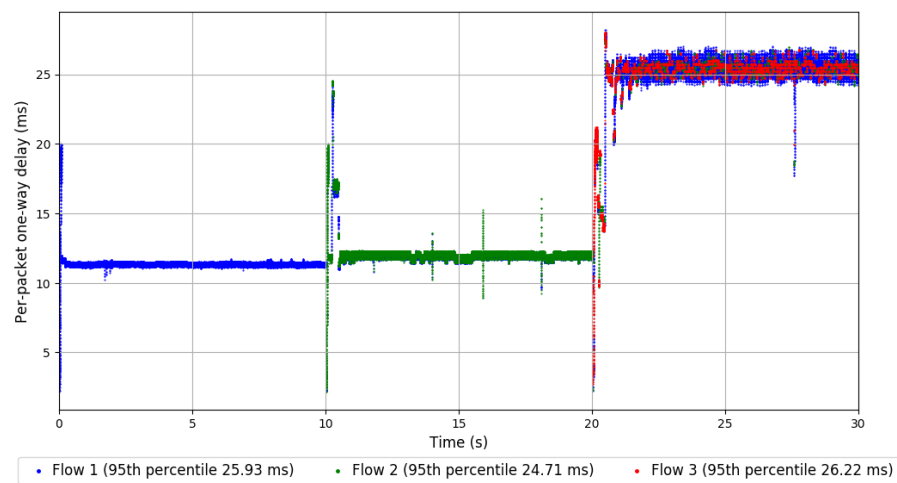
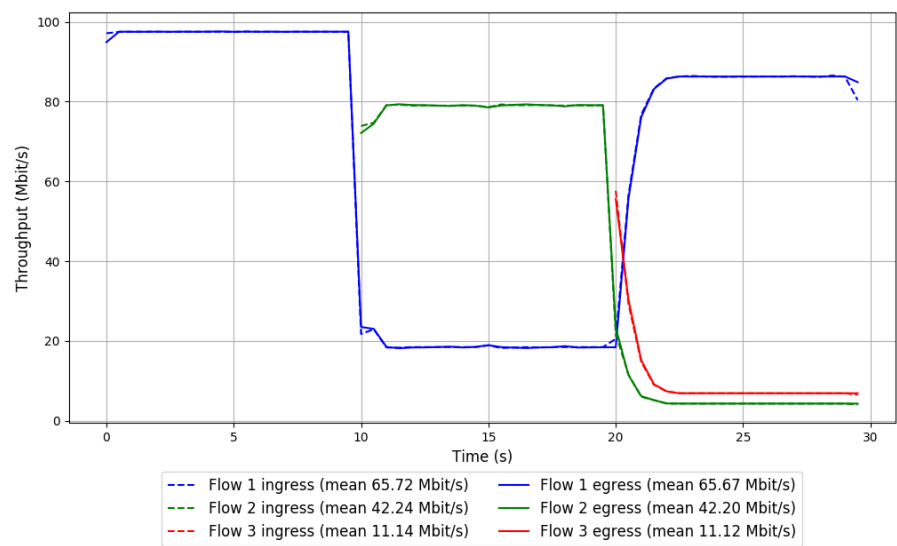
-- Flow 3:

Average throughput: 11.12 Mbit/s

95th percentile per-packet one-way delay: 26.222 ms

Loss rate: 0.00%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-01-02 12:33:42

End at: 2018-01-02 12:34:12

Local clock offset: -0.327 ms

Remote clock offset: 0.343 ms

Below is generated by plot.py at 2018-01-02 13:20:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.47 Mbit/s

95th percentile per-packet one-way delay: 13.521 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 44.56 Mbit/s

95th percentile per-packet one-way delay: 13.453 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 45.85 Mbit/s

95th percentile per-packet one-way delay: 13.506 ms

Loss rate: 0.00%

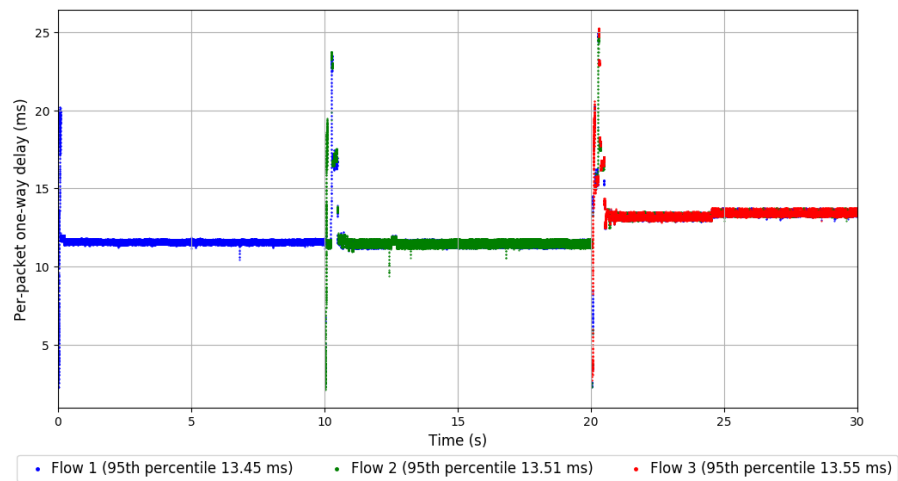
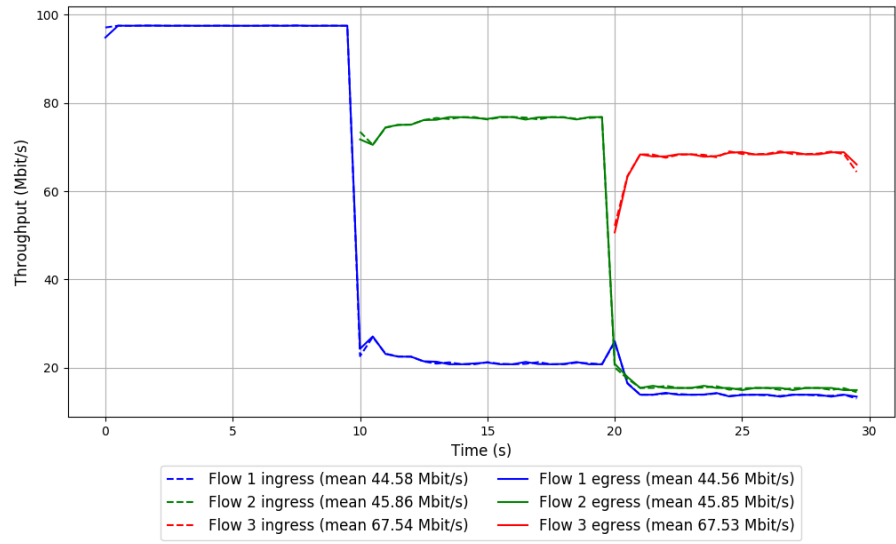
-- Flow 3:

Average throughput: 67.53 Mbit/s

95th percentile per-packet one-way delay: 13.551 ms

Loss rate: 0.00%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-01-02 12:50:50

End at: 2018-01-02 12:51:20

Local clock offset: -0.303 ms

Remote clock offset: 0.239 ms

Below is generated by plot.py at 2018-01-02 13:20:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.46 Mbit/s

95th percentile per-packet one-way delay: 30.467 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 66.54 Mbit/s

95th percentile per-packet one-way delay: 30.487 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 41.26 Mbit/s

95th percentile per-packet one-way delay: 29.260 ms

Loss rate: 0.00%

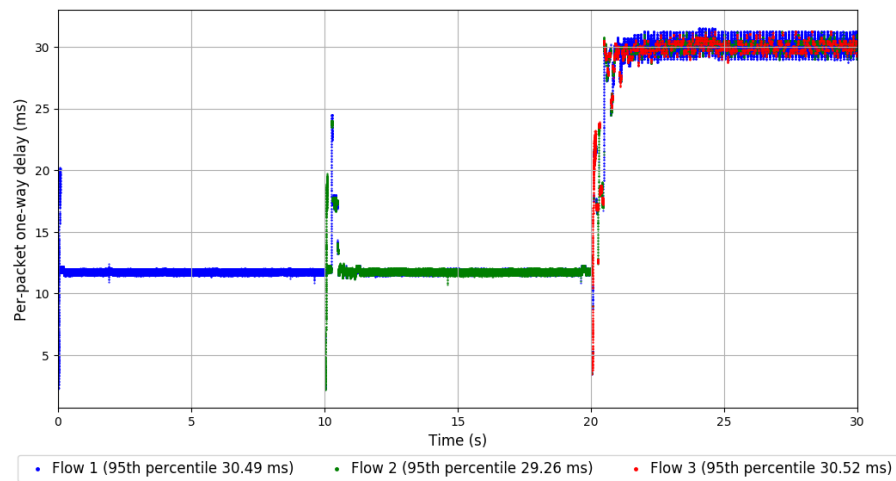
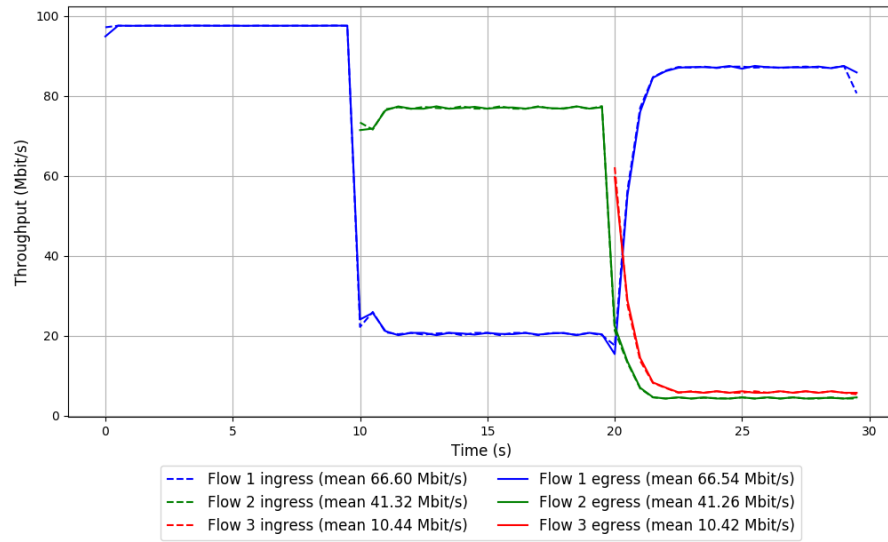
-- Flow 3:

Average throughput: 10.42 Mbit/s

95th percentile per-packet one-way delay: 30.525 ms

Loss rate: 0.00%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-01-02 10:09:05

End at: 2018-01-02 10:09:35

Local clock offset: -0.358 ms

Remote clock offset: 0.748 ms

Below is generated by plot.py at 2018-01-02 13:20:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.47 Mbit/s

95th percentile per-packet one-way delay: 32.699 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 67.85 Mbit/s

95th percentile per-packet one-way delay: 32.662 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 36.16 Mbit/s

95th percentile per-packet one-way delay: 32.724 ms

Loss rate: 0.07%

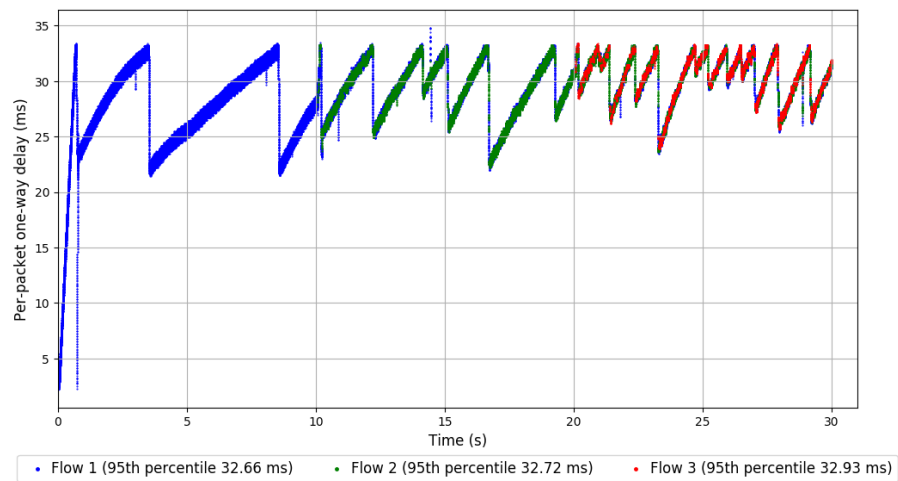
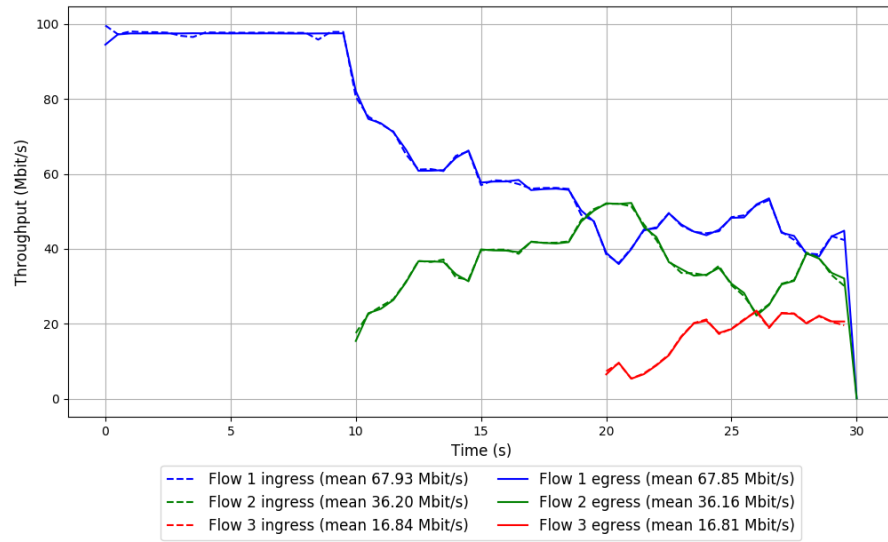
-- Flow 3:

Average throughput: 16.81 Mbit/s

95th percentile per-packet one-way delay: 32.933 ms

Loss rate: 0.16%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-01-02 10:26:09

End at: 2018-01-02 10:26:39

Local clock offset: -0.386 ms

Remote clock offset: 0.683 ms

Below is generated by plot.py at 2018-01-02 13:20:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.48 Mbit/s

95th percentile per-packet one-way delay: 32.672 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 65.44 Mbit/s

95th percentile per-packet one-way delay: 32.536 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 33.61 Mbit/s

95th percentile per-packet one-way delay: 32.716 ms

Loss rate: 0.07%

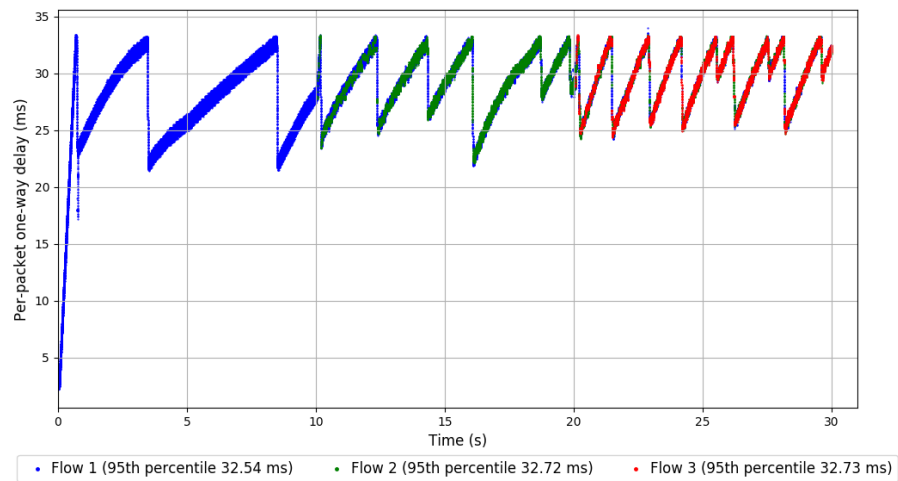
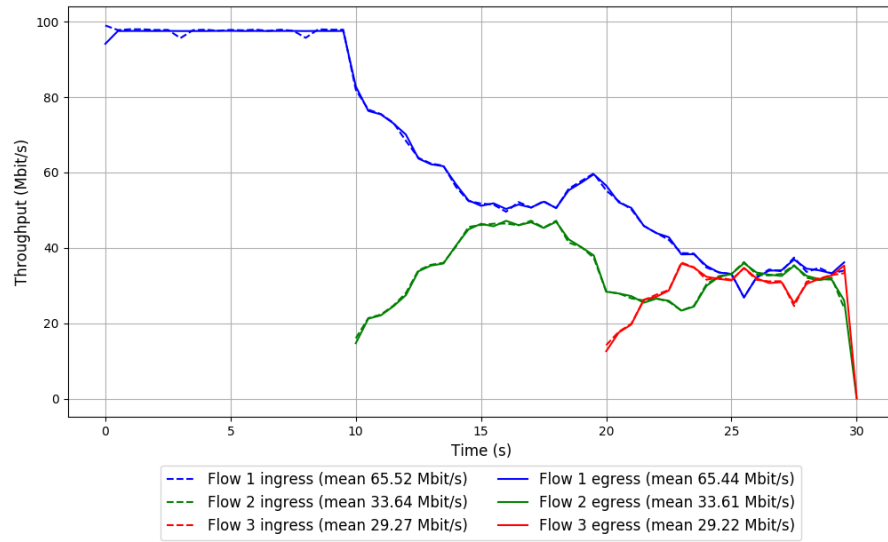
-- Flow 3:

Average throughput: 29.22 Mbit/s

95th percentile per-packet one-way delay: 32.727 ms

Loss rate: 0.12%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-01-02 10:43:13

End at: 2018-01-02 10:43:43

Local clock offset: -0.422 ms

Remote clock offset: 0.616 ms

Below is generated by plot.py at 2018-01-02 13:20:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.48 Mbit/s

95th percentile per-packet one-way delay: 32.717 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 66.18 Mbit/s

95th percentile per-packet one-way delay: 32.660 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 33.97 Mbit/s

95th percentile per-packet one-way delay: 32.755 ms

Loss rate: 0.08%

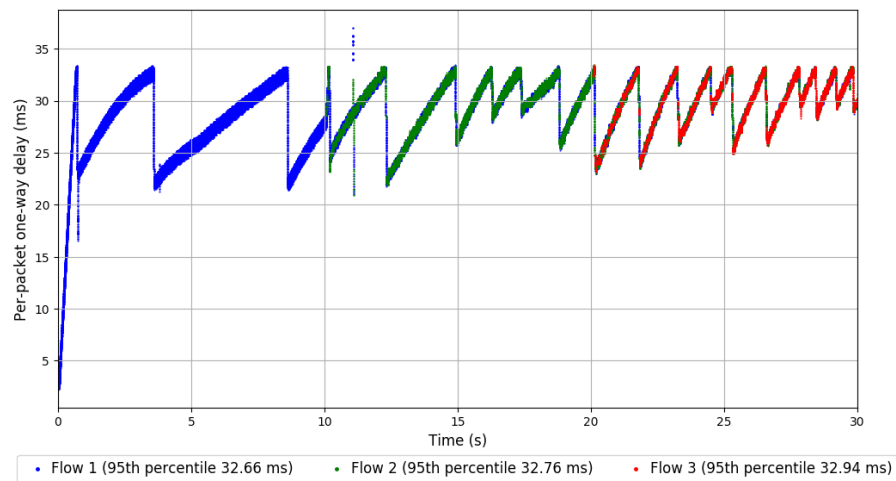
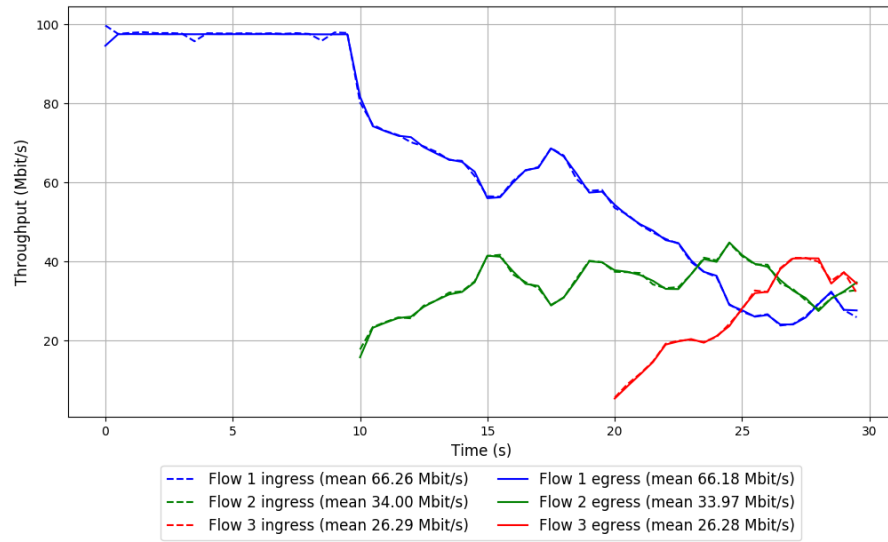
-- Flow 3:

Average throughput: 26.28 Mbit/s

95th percentile per-packet one-way delay: 32.939 ms

Loss rate: 0.05%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-01-02 11:00:18

End at: 2018-01-02 11:00:48

Local clock offset: -0.443 ms

Remote clock offset: 0.62 ms

Below is generated by plot.py at 2018-01-02 13:20:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.47 Mbit/s

95th percentile per-packet one-way delay: 32.734 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 63.41 Mbit/s

95th percentile per-packet one-way delay: 32.582 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 38.03 Mbit/s

95th percentile per-packet one-way delay: 32.767 ms

Loss rate: 0.08%

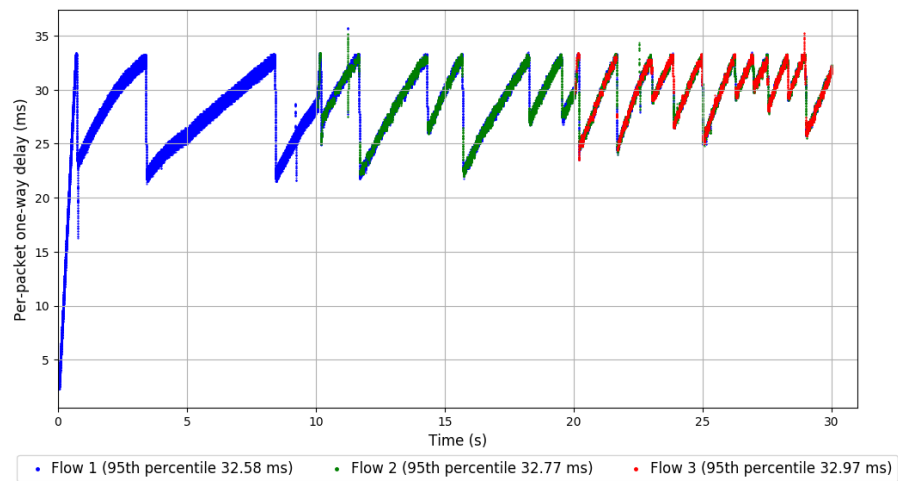
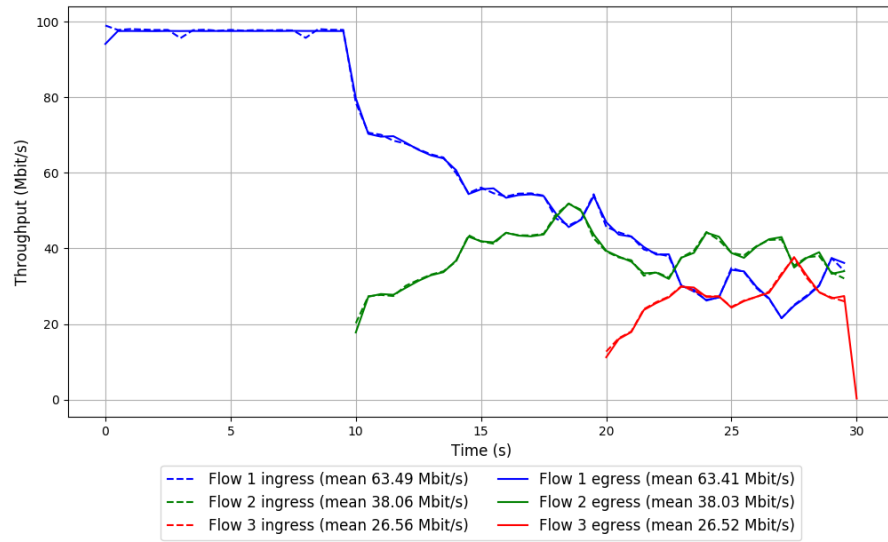
-- Flow 3:

Average throughput: 26.52 Mbit/s

95th percentile per-packet one-way delay: 32.966 ms

Loss rate: 0.13%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-01-02 11:17:23

End at: 2018-01-02 11:17:53

Local clock offset: -0.486 ms

Remote clock offset: 0.582 ms

Below is generated by plot.py at 2018-01-02 13:20:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.48 Mbit/s

95th percentile per-packet one-way delay: 32.760 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 66.61 Mbit/s

95th percentile per-packet one-way delay: 32.706 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 30.38 Mbit/s

95th percentile per-packet one-way delay: 32.795 ms

Loss rate: 0.10%

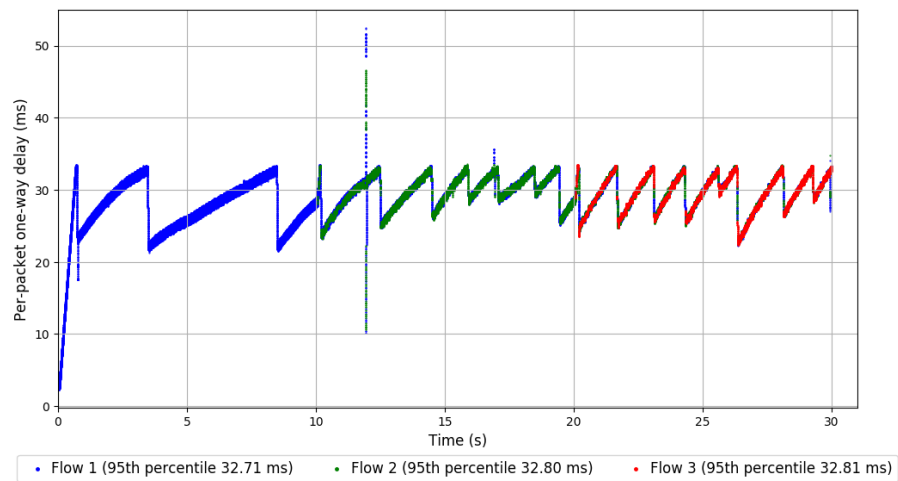
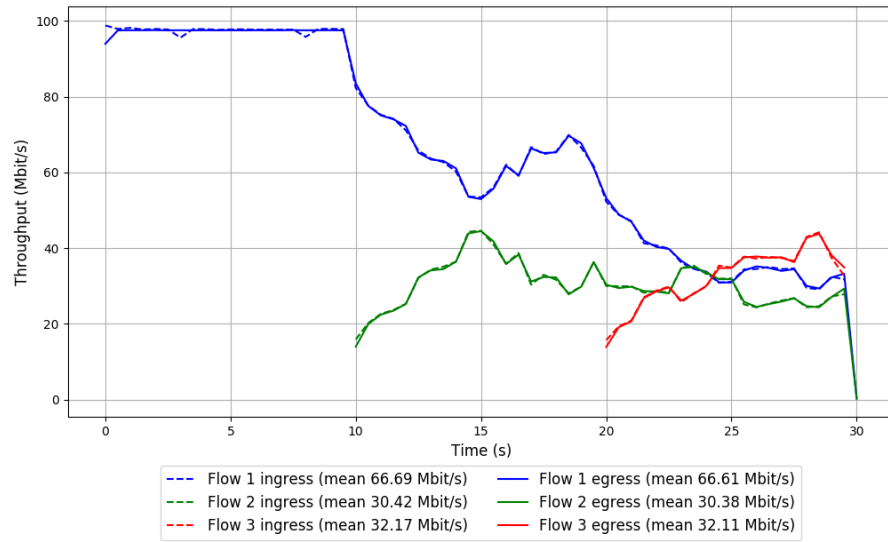
-- Flow 3:

Average throughput: 32.11 Mbit/s

95th percentile per-packet one-way delay: 32.807 ms

Loss rate: 0.13%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-01-02 11:34:28

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

Local clock offset: -0.425 ms

Remote clock offset: 0.547 ms

Below is generated by plot.py at 2018-01-02 13:20:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.48 Mbit/s

95th percentile per-packet one-way delay: 32.732 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 60.55 Mbit/s

95th percentile per-packet one-way delay: 32.580 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 39.55 Mbit/s

95th percentile per-packet one-way delay: 32.759 ms

Loss rate: 0.08%

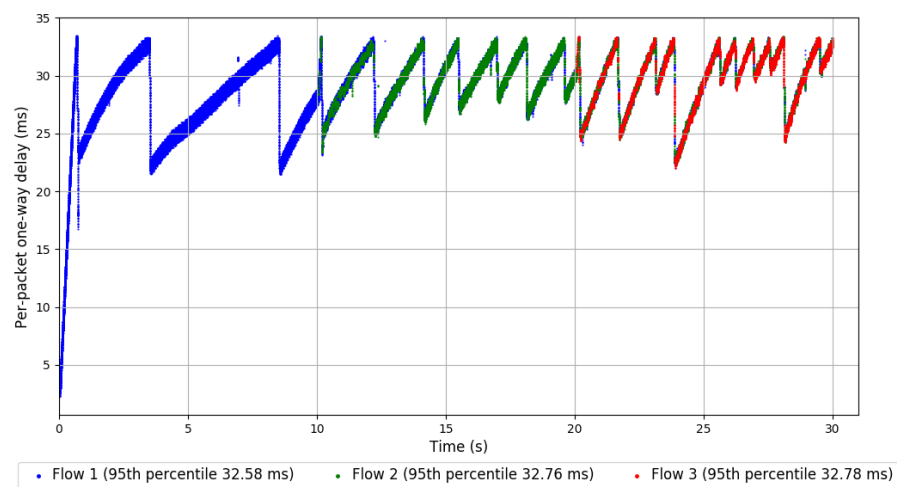
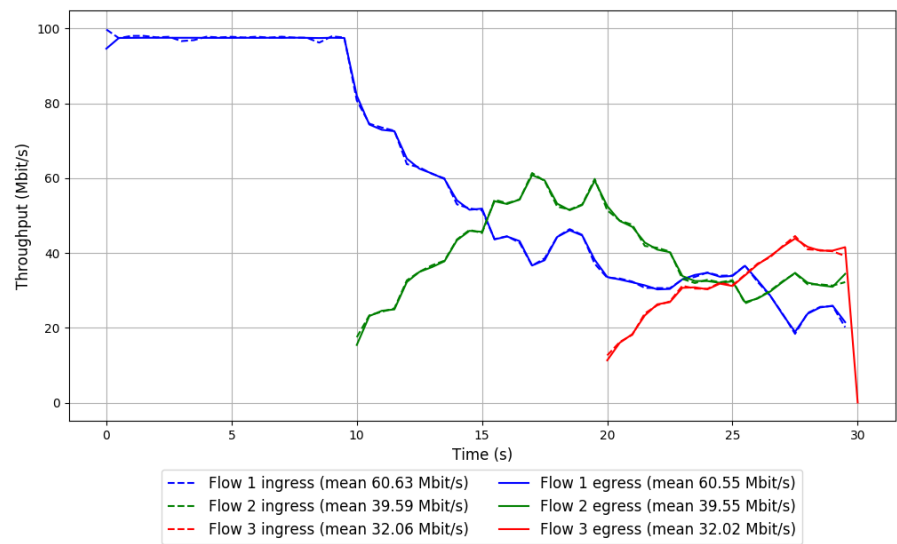
-- Flow 3:

Average throughput: 32.02 Mbit/s

95th percentile per-packet one-way delay: 32.781 ms

Loss rate: 0.08%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-01-02 11:51:33

End at: 2018-01-02 11:52:03

Local clock offset: -0.368 ms

Remote clock offset: 0.498 ms

Below is generated by plot.py at 2018-01-02 13:21:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.48 Mbit/s

95th percentile per-packet one-way delay: 32.737 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 63.68 Mbit/s

95th percentile per-packet one-way delay: 32.668 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 35.41 Mbit/s

95th percentile per-packet one-way delay: 32.775 ms

Loss rate: 0.10%

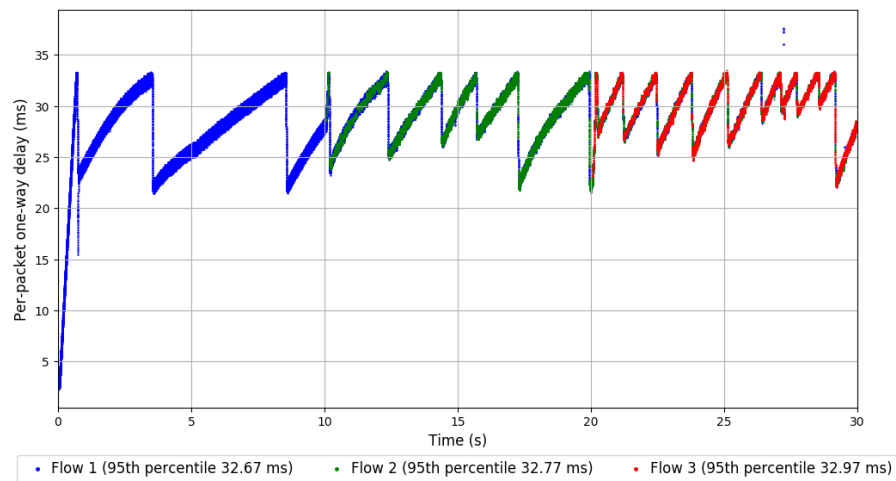
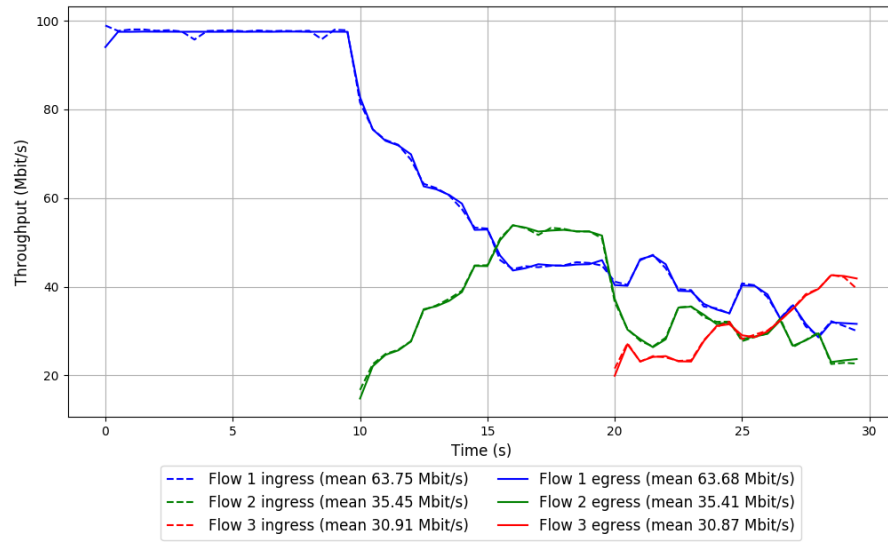
-- Flow 3:

Average throughput: 30.87 Mbit/s

95th percentile per-packet one-way delay: 32.966 ms

Loss rate: 0.08%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-01-02 12:08:41

End at: 2018-01-02 12:09:11

Local clock offset: -0.335 ms

Remote clock offset: 0.495 ms

Below is generated by plot.py at 2018-01-02 13:21:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.48 Mbit/s

95th percentile per-packet one-way delay: 32.712 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 59.81 Mbit/s

95th percentile per-packet one-way delay: 32.529 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 42.31 Mbit/s

95th percentile per-packet one-way delay: 32.747 ms

Loss rate: 0.06%

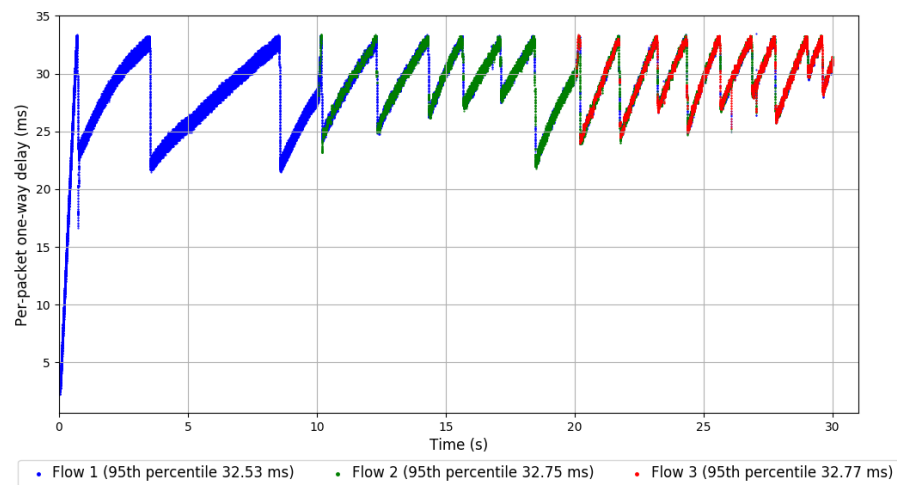
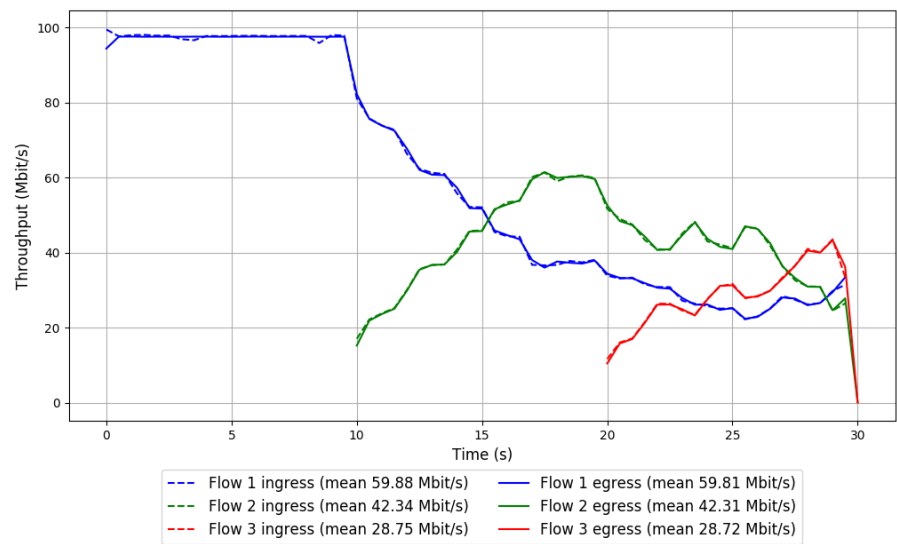
-- Flow 3:

Average throughput: 28.72 Mbit/s

95th percentile per-packet one-way delay: 32.774 ms

Loss rate: 0.09%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-01-02 12:25:46

End at: 2018-01-02 12:26:16

Local clock offset: -0.383 ms

Remote clock offset: 0.397 ms

Below is generated by plot.py at 2018-01-02 13:21:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.48 Mbit/s

95th percentile per-packet one-way delay: 32.780 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 63.45 Mbit/s

95th percentile per-packet one-way delay: 32.723 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 39.11 Mbit/s

95th percentile per-packet one-way delay: 32.807 ms

Loss rate: 0.06%

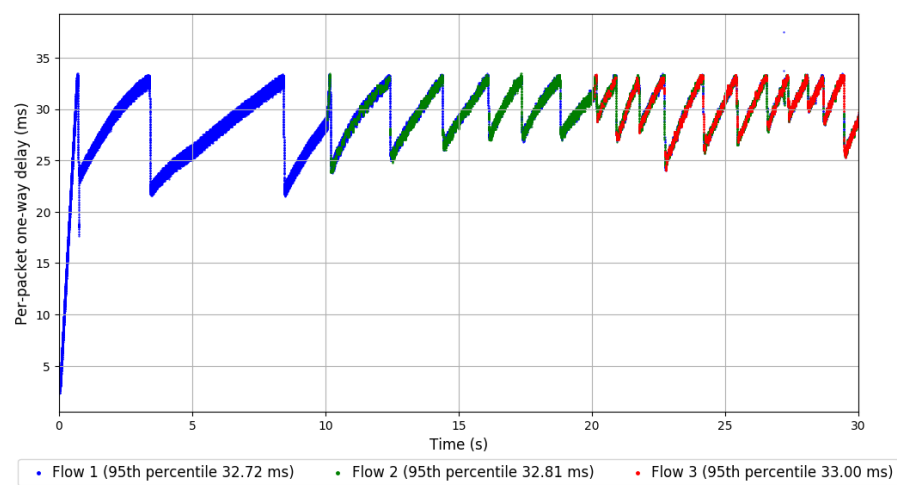
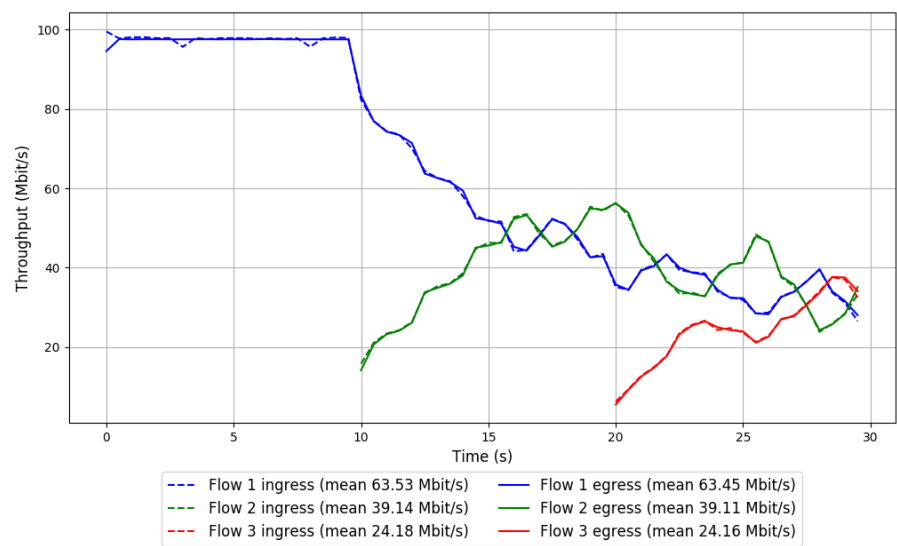
-- Flow 3:

Average throughput: 24.16 Mbit/s

95th percentile per-packet one-way delay: 33.001 ms

Loss rate: 0.08%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-01-02 12:42:54

End at: 2018-01-02 12:43:24

Local clock offset: -0.378 ms

Remote clock offset: 0.3 ms

Below is generated by plot.py at 2018-01-02 13:21:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.48 Mbit/s

95th percentile per-packet one-way delay: 32.784 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 63.42 Mbit/s

95th percentile per-packet one-way delay: 32.740 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 35.44 Mbit/s

95th percentile per-packet one-way delay: 32.807 ms

Loss rate: 0.08%

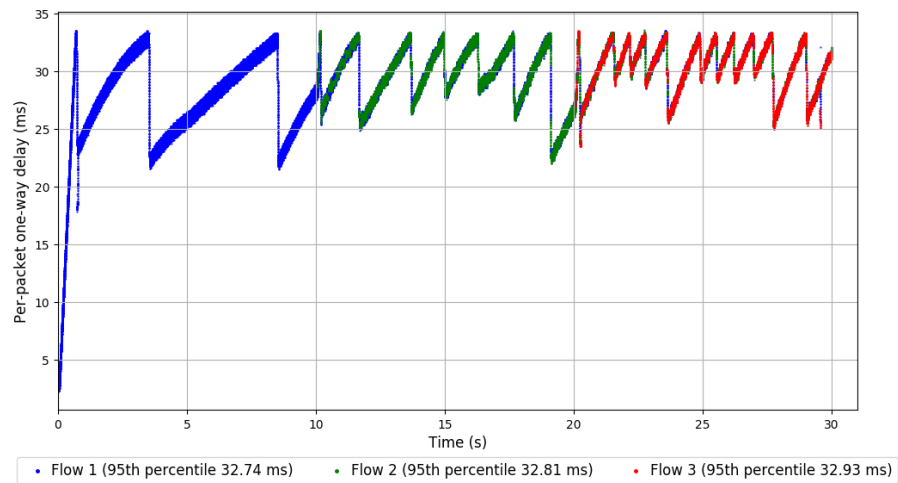
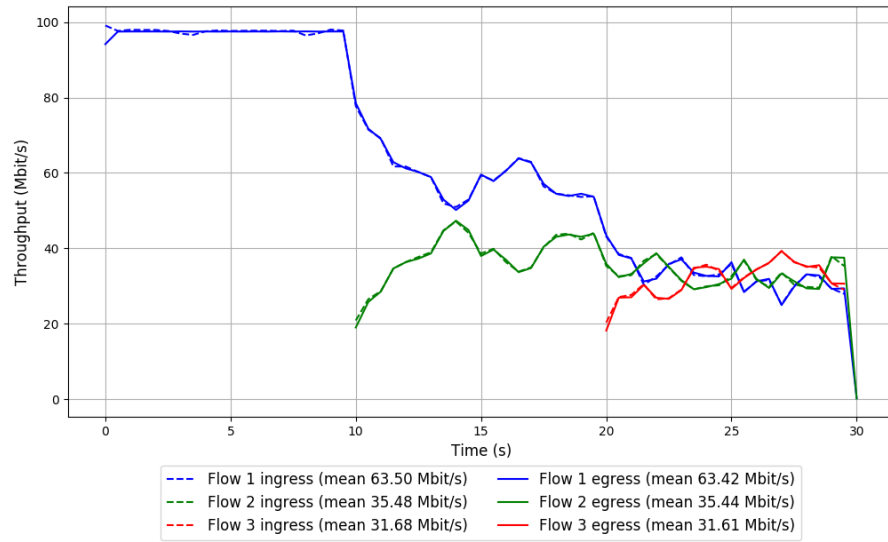
-- Flow 3:

Average throughput: 31.61 Mbit/s

95th percentile per-packet one-way delay: 32.934 ms

Loss rate: 0.17%

Run 10: Report of TCP Cubic — Data Link

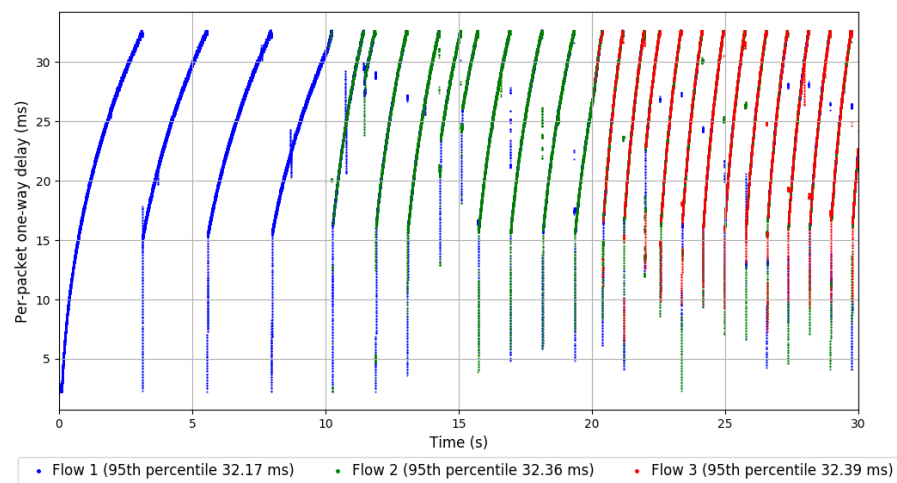
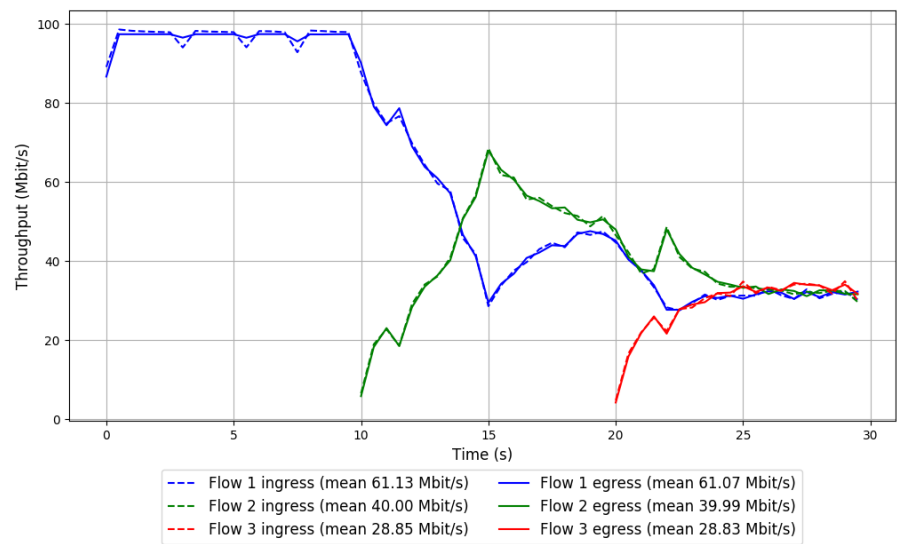


```
Run 1: Statistics of LEDBAT

Start at: 2018-01-02 10:05:39
End at: 2018-01-02 10:06:09
Local clock offset: -0.364 ms
Remote clock offset: 0.687 ms

# Below is generated by plot.py at 2018-01-02 13:21:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.20 Mbit/s
95th percentile per-packet one-way delay: 32.191 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 61.07 Mbit/s
95th percentile per-packet one-way delay: 32.167 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 39.99 Mbit/s
95th percentile per-packet one-way delay: 32.360 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 28.83 Mbit/s
95th percentile per-packet one-way delay: 32.392 ms
Loss rate: 0.09%
```

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2018-01-02 10:22:43

End at: 2018-01-02 10:23:13

Local clock offset: -0.421 ms

Remote clock offset: 0.707 ms

Below is generated by plot.py at 2018-01-02 13:21:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.15 Mbit/s

95th percentile per-packet one-way delay: 32.266 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 62.24 Mbit/s

95th percentile per-packet one-way delay: 32.243 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 36.83 Mbit/s

95th percentile per-packet one-way delay: 32.429 ms

Loss rate: 0.05%

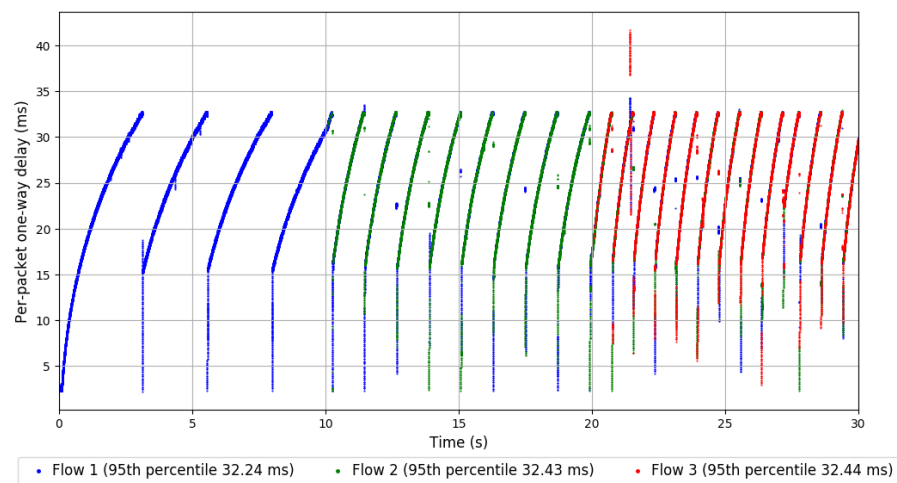
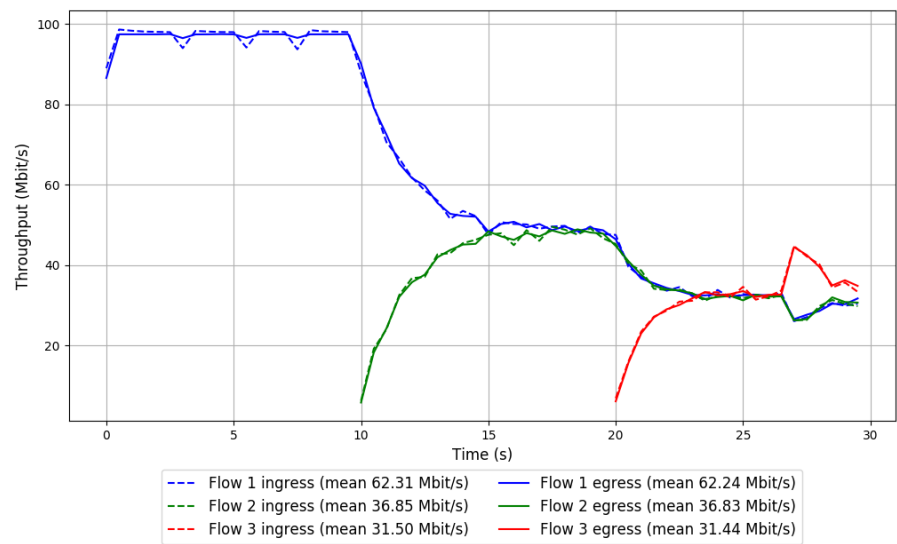
-- Flow 3:

Average throughput: 31.44 Mbit/s

95th percentile per-packet one-way delay: 32.443 ms

Loss rate: 0.08%

Run 2: Report of LEDBAT — Data Link

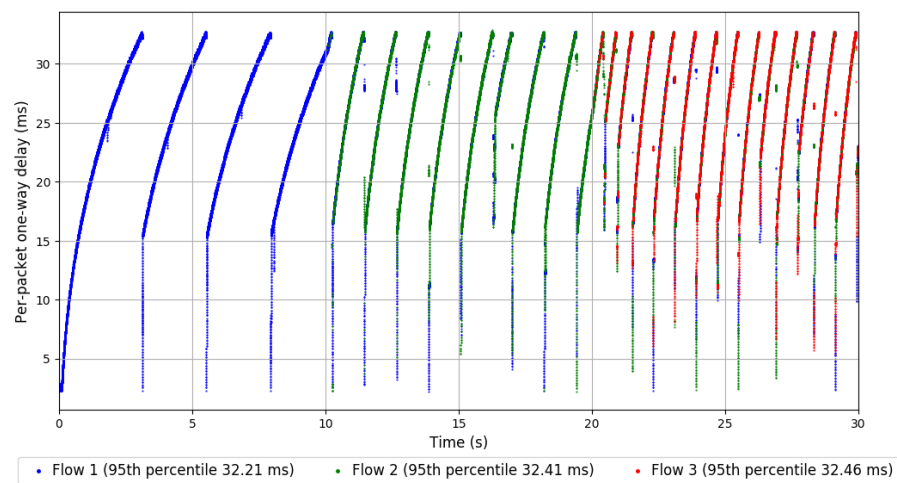
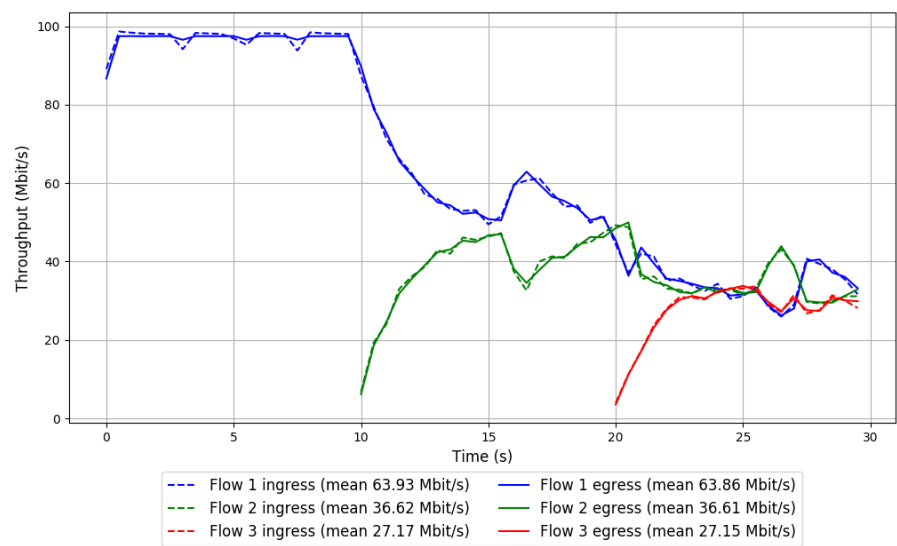


Run 3: Statistics of LEDBAT

Start at: 2018-01-02 10:39:48
End at: 2018-01-02 10:40:18
Local clock offset: -0.402 ms
Remote clock offset: 0.65 ms

Below is generated by plot.py at 2018-01-02 13:21:45
Datalink statistics
-- Total of 3 flows:
Average throughput: 97.19 Mbit/s
95th percentile per-packet one-way delay: 32.250 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 63.86 Mbit/s
95th percentile per-packet one-way delay: 32.208 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 36.61 Mbit/s
95th percentile per-packet one-way delay: 32.407 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 27.15 Mbit/s
95th percentile per-packet one-way delay: 32.461 ms
Loss rate: 0.12%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-01-02 10:56:52

End at: 2018-01-02 10:57:22

Local clock offset: -0.428 ms

Remote clock offset: 0.608 ms

Below is generated by plot.py at 2018-01-02 13:21:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.19 Mbit/s

95th percentile per-packet one-way delay: 32.239 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 65.52 Mbit/s

95th percentile per-packet one-way delay: 32.201 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 31.76 Mbit/s

95th percentile per-packet one-way delay: 32.431 ms

Loss rate: 0.08%

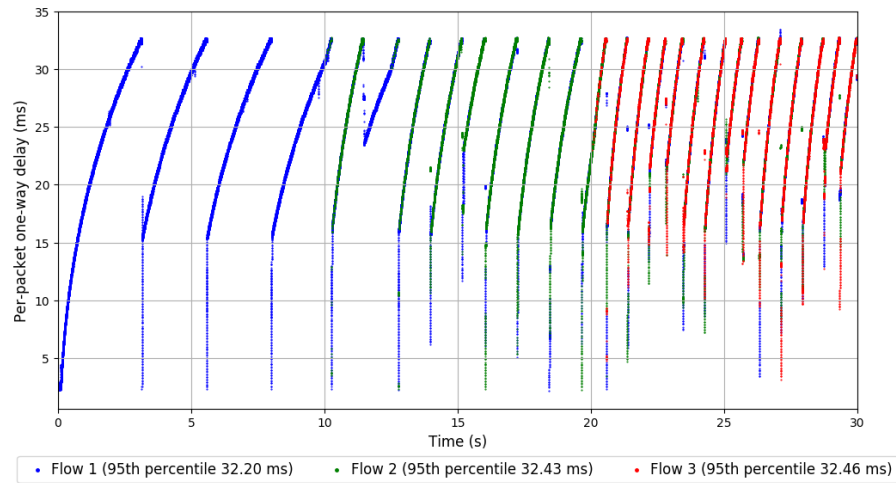
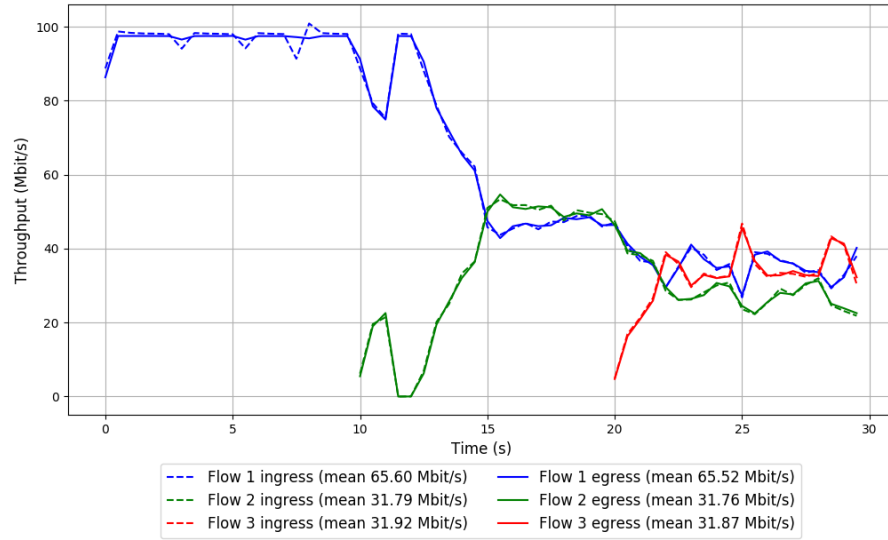
-- Flow 3:

Average throughput: 31.87 Mbit/s

95th percentile per-packet one-way delay: 32.460 ms

Loss rate: 0.09%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-01-02 11:13:57

End at: 2018-01-02 11:14:27

Local clock offset: -0.516 ms

Remote clock offset: 0.584 ms

Below is generated by plot.py at 2018-01-02 13:23:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.18 Mbit/s

95th percentile per-packet one-way delay: 32.320 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 62.93 Mbit/s

95th percentile per-packet one-way delay: 32.284 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 35.57 Mbit/s

95th percentile per-packet one-way delay: 32.501 ms

Loss rate: 0.06%

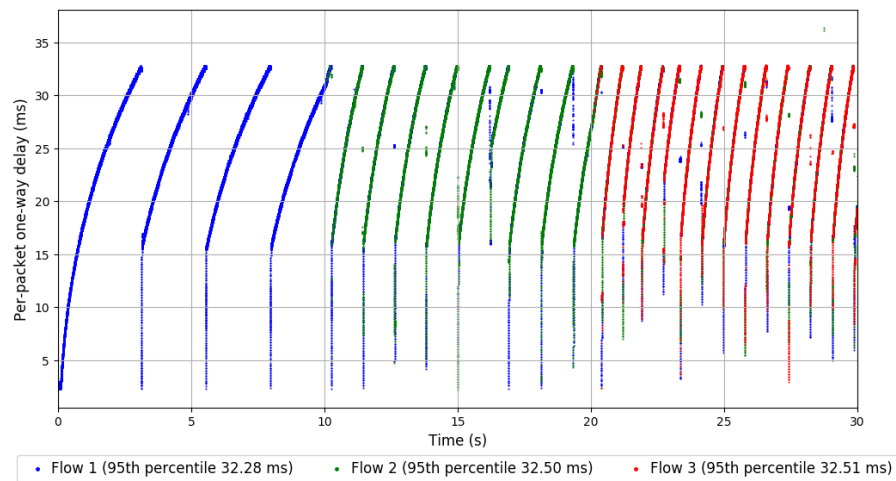
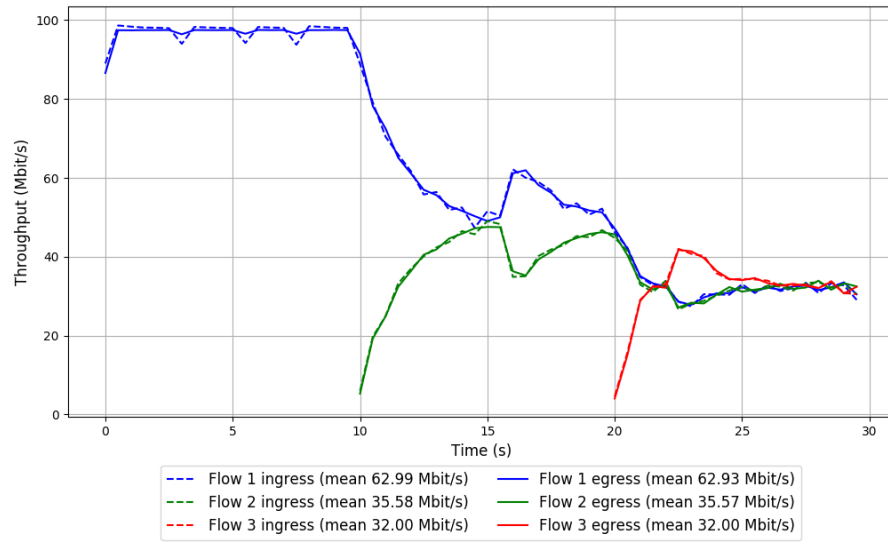
-- Flow 3:

Average throughput: 32.00 Mbit/s

95th percentile per-packet one-way delay: 32.511 ms

Loss rate: 0.07%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-01-02 11:31:02

End at: 2018-01-02 11:31:32

Local clock offset: -0.433 ms

Remote clock offset: 0.538 ms

Below is generated by plot.py at 2018-01-02 13:23:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.16 Mbit/s

95th percentile per-packet one-way delay: 32.254 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 62.94 Mbit/s

95th percentile per-packet one-way delay: 32.212 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 37.10 Mbit/s

95th percentile per-packet one-way delay: 32.411 ms

Loss rate: 0.06%

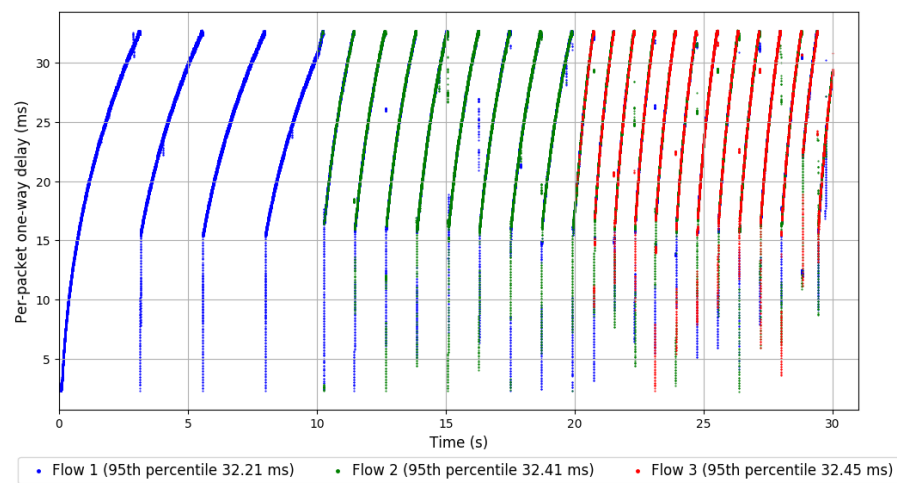
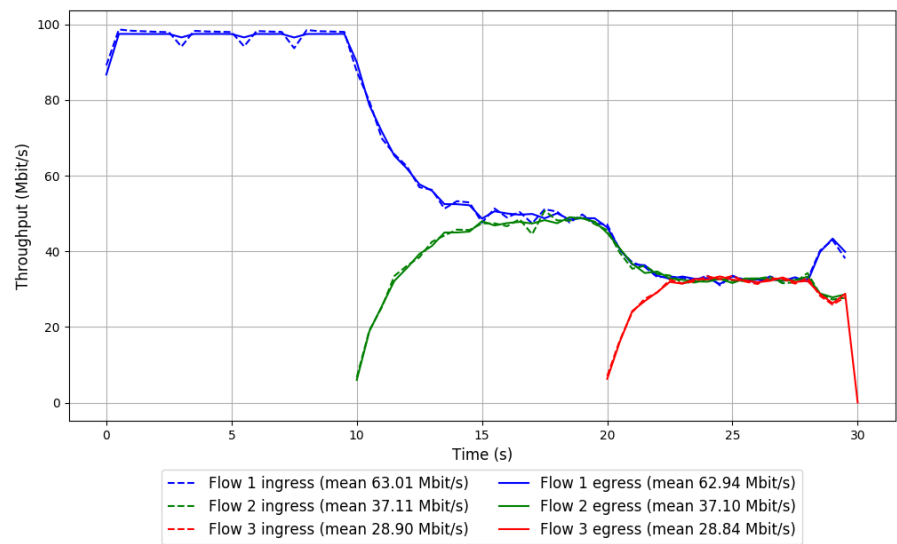
-- Flow 3:

Average throughput: 28.84 Mbit/s

95th percentile per-packet one-way delay: 32.449 ms

Loss rate: 0.10%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-01-02 11:48:07

End at: 2018-01-02 11:48:37

Local clock offset: -0.359 ms

Remote clock offset: 0.514 ms

Below is generated by plot.py at 2018-01-02 13:23:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.20 Mbit/s

95th percentile per-packet one-way delay: 32.239 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 62.57 Mbit/s

95th percentile per-packet one-way delay: 32.206 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 37.33 Mbit/s

95th percentile per-packet one-way delay: 32.407 ms

Loss rate: 0.06%

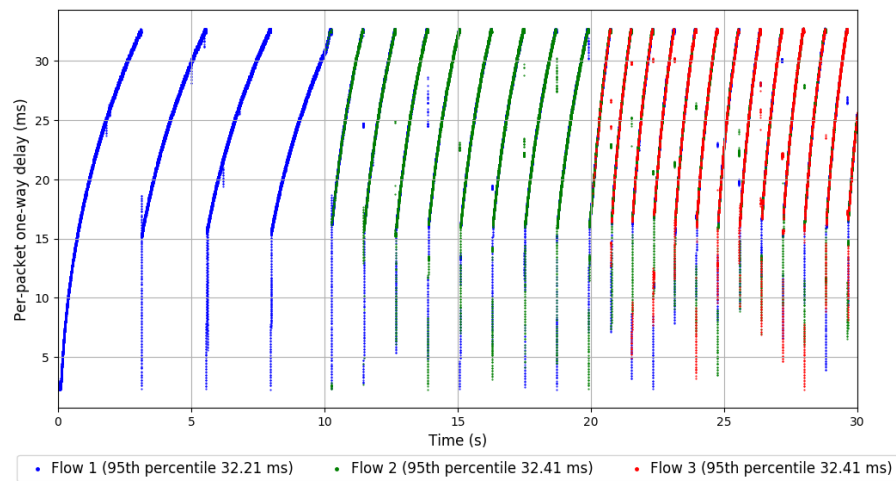
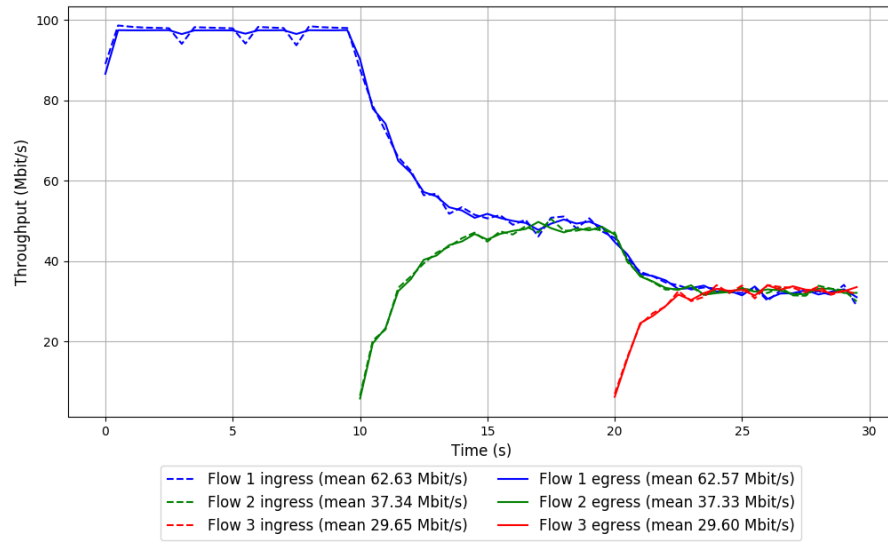
-- Flow 3:

Average throughput: 29.60 Mbit/s

95th percentile per-packet one-way delay: 32.407 ms

Loss rate: 0.08%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-01-02 12:05:15

End at: 2018-01-02 12:05:45

Local clock offset: -0.356 ms

Remote clock offset: 0.491 ms

Below is generated by plot.py at 2018-01-02 13:23:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.22 Mbit/s

95th percentile per-packet one-way delay: 32.249 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 62.20 Mbit/s

95th percentile per-packet one-way delay: 32.201 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 38.38 Mbit/s

95th percentile per-packet one-way delay: 32.427 ms

Loss rate: 0.06%

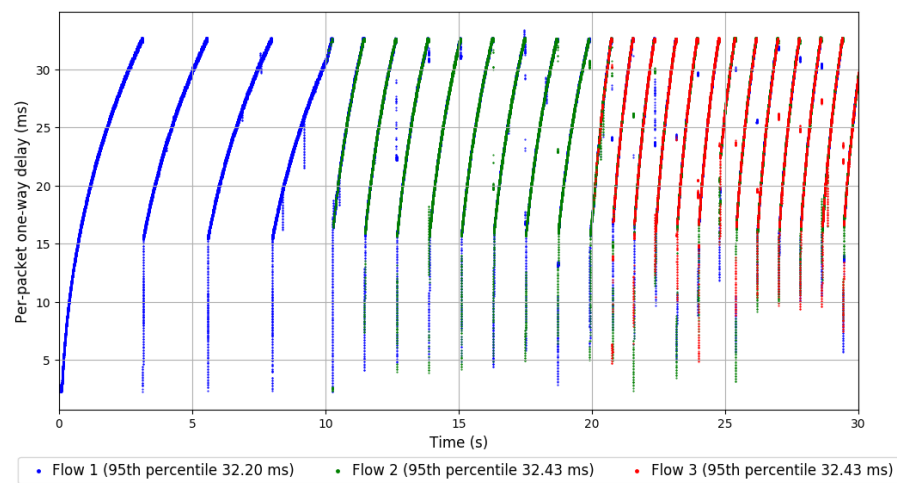
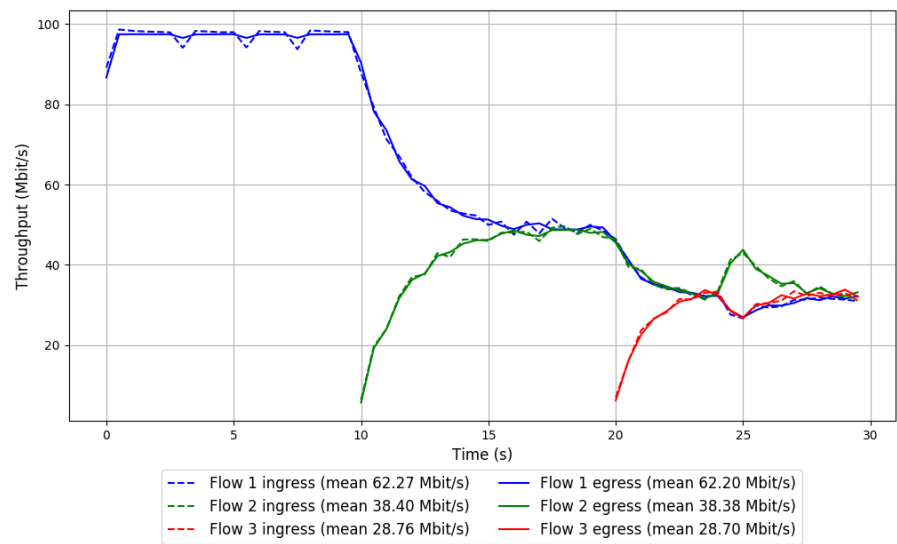
-- Flow 3:

Average throughput: 28.70 Mbit/s

95th percentile per-packet one-way delay: 32.433 ms

Loss rate: 0.09%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-01-02 12:22:20

End at: 2018-01-02 12:22:50

Local clock offset: -0.32 ms

Remote clock offset: 0.417 ms

Below is generated by plot.py at 2018-01-02 13:23:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.17 Mbit/s

95th percentile per-packet one-way delay: 32.238 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 63.33 Mbit/s

95th percentile per-packet one-way delay: 32.187 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 36.16 Mbit/s

95th percentile per-packet one-way delay: 32.403 ms

Loss rate: 0.06%

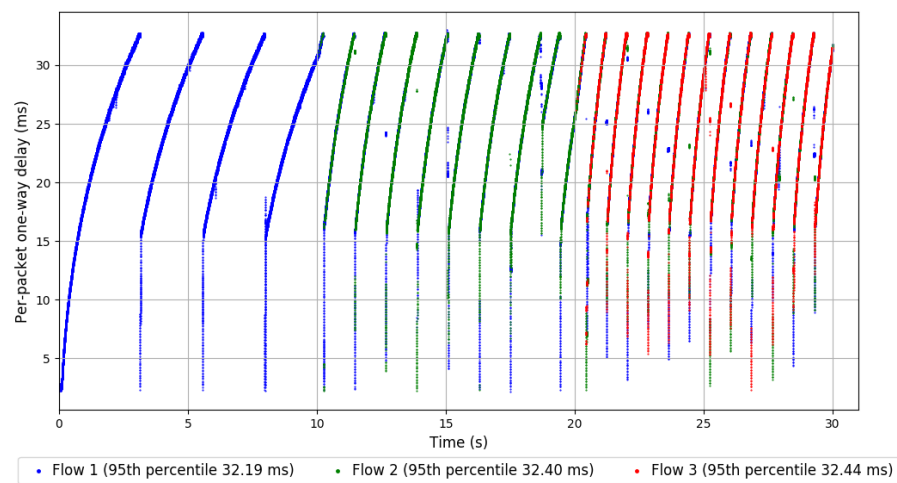
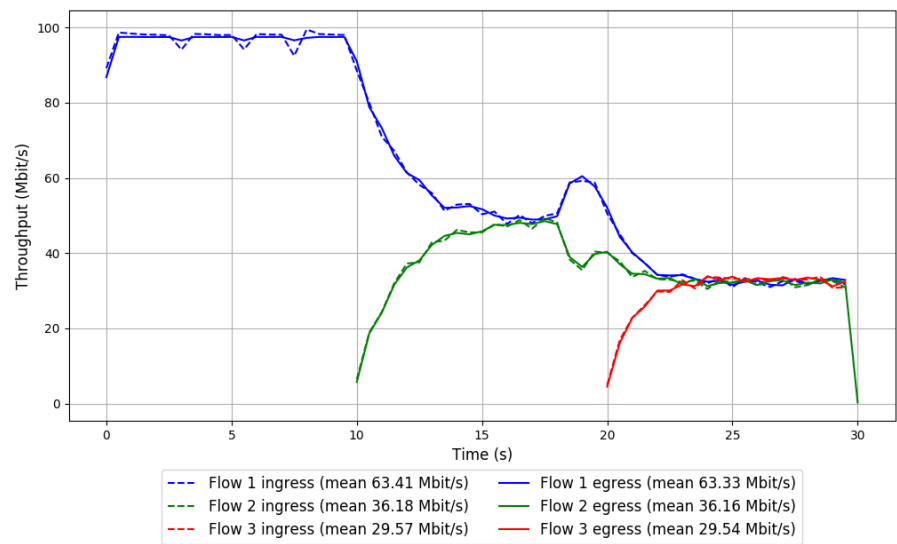
-- Flow 3:

Average throughput: 29.54 Mbit/s

95th percentile per-packet one-way delay: 32.439 ms

Loss rate: 0.07%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-01-02 12:39:29

End at: 2018-01-02 12:39:59

Local clock offset: -0.335 ms

Remote clock offset: 0.248 ms

Below is generated by plot.py at 2018-01-02 13:23:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.20 Mbit/s

95th percentile per-packet one-way delay: 32.175 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 62.18 Mbit/s

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

Loss rate: 0.03%

-- Flow 2:

Average throughput: 38.31 Mbit/s

95th percentile per-packet one-way delay: 32.331 ms

Loss rate: 0.05%

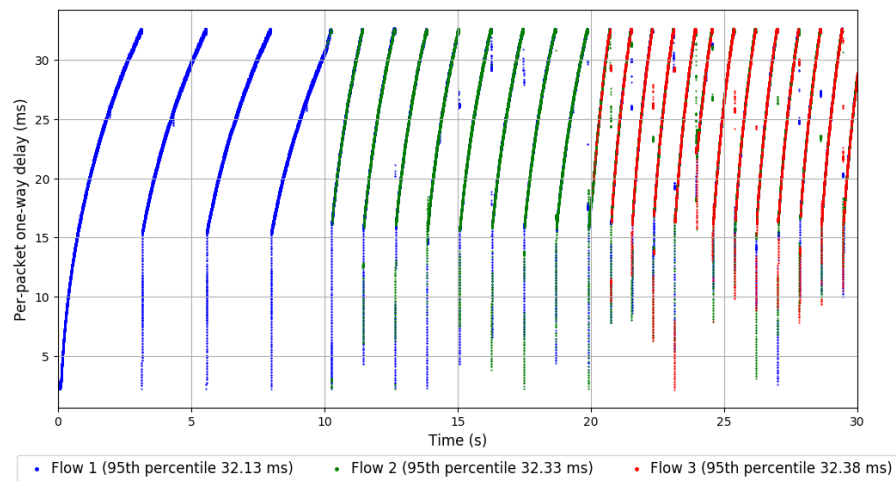
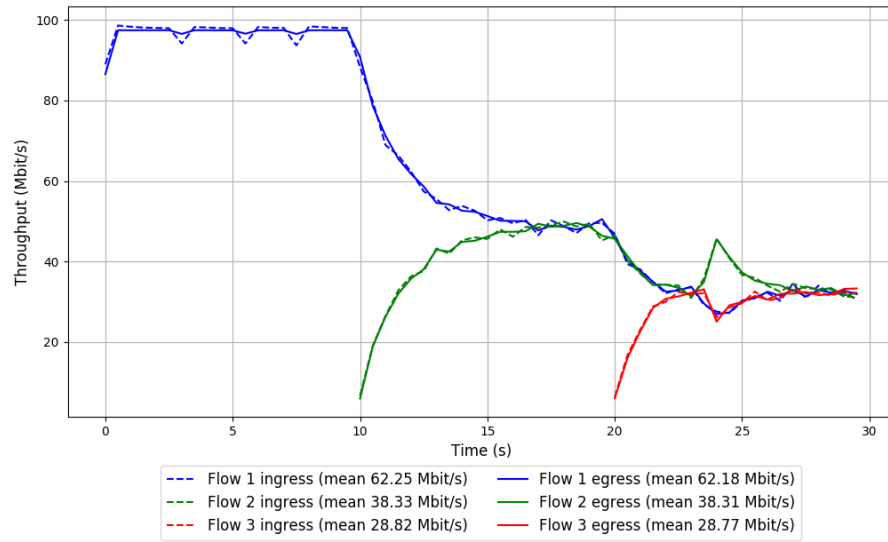
-- Flow 3:

Average throughput: 28.77 Mbit/s

95th percentile per-packet one-way delay: 32.379 ms

Loss rate: 0.07%

Run 10: Report of LEDBAT — Data Link

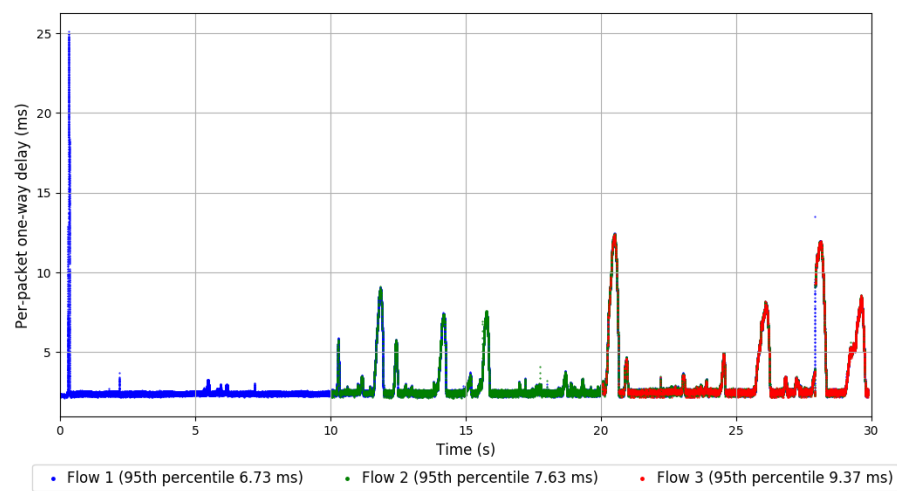
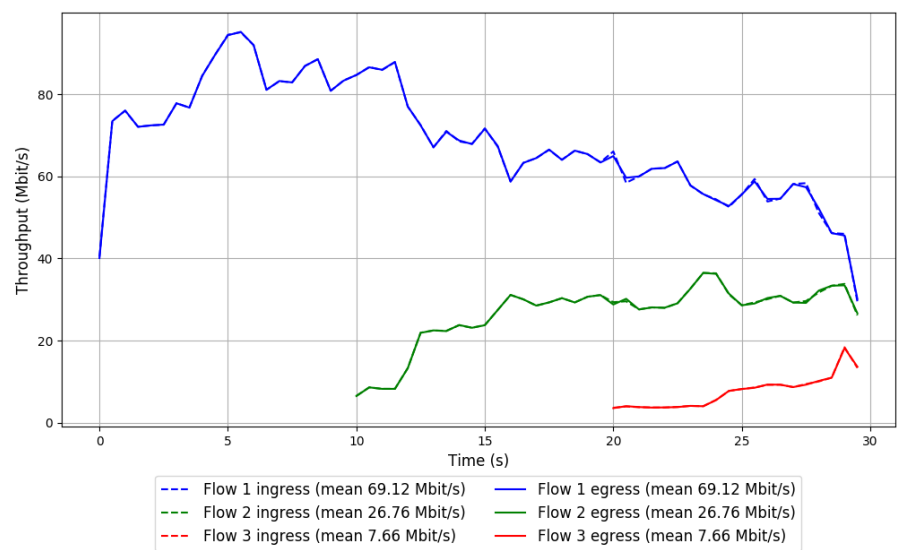


```
Run 1: Statistics of PCC

Start at: 2018-01-02 10:18:09
End at: 2018-01-02 10:18:39
Local clock offset: -0.448 ms
Remote clock offset: 0.658 ms

# Below is generated by plot.py at 2018-01-02 13:23:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 89.43 Mbit/s
95th percentile per-packet one-way delay: 7.169 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 69.12 Mbit/s
95th percentile per-packet one-way delay: 6.729 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 26.76 Mbit/s
95th percentile per-packet one-way delay: 7.629 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 7.66 Mbit/s
95th percentile per-packet one-way delay: 9.368 ms
Loss rate: 0.00%
```

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2018-01-02 10:35:13

End at: 2018-01-02 10:35:43

Local clock offset: -0.418 ms

Remote clock offset: 0.658 ms

Below is generated by plot.py at 2018-01-02 13:23:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.37 Mbit/s

95th percentile per-packet one-way delay: 26.936 ms

Loss rate: 0.21%

-- Flow 1:

Average throughput: 67.37 Mbit/s

95th percentile per-packet one-way delay: 31.030 ms

Loss rate: 0.21%

-- Flow 2:

Average throughput: 34.01 Mbit/s

95th percentile per-packet one-way delay: 11.329 ms

Loss rate: 0.20%

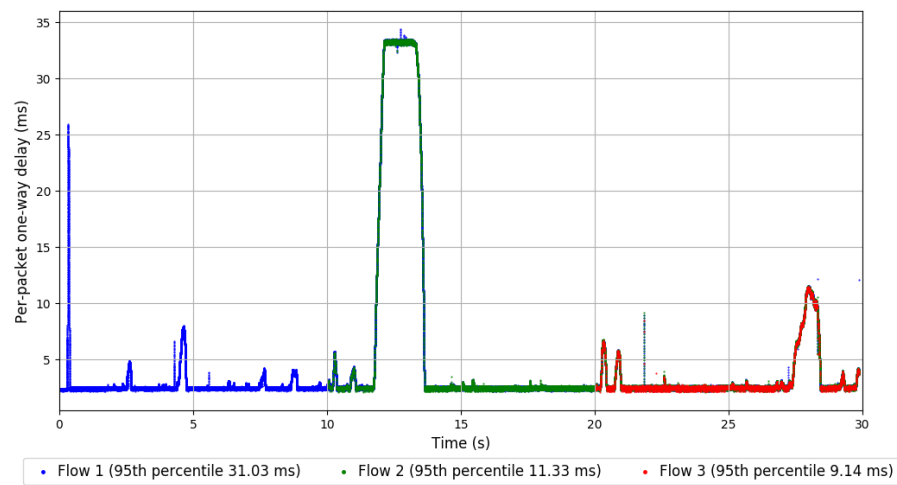
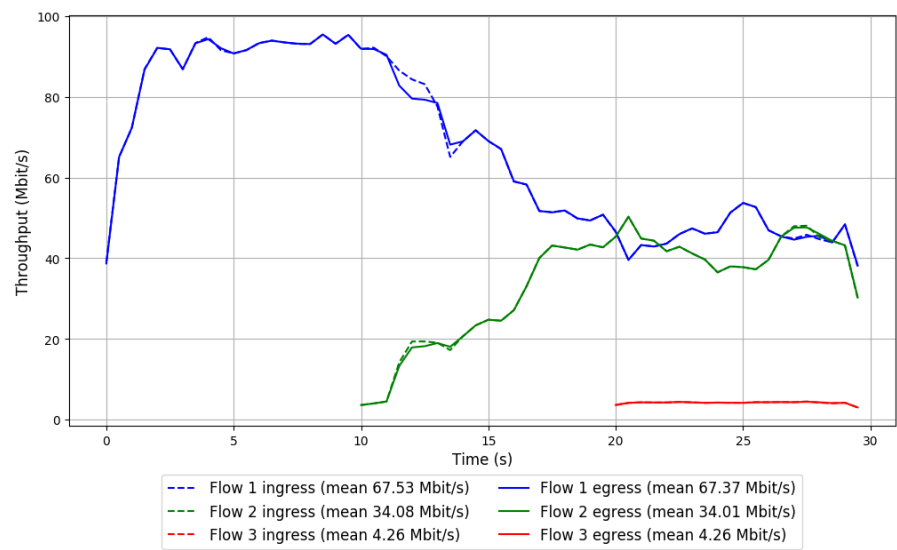
-- Flow 3:

Average throughput: 4.26 Mbit/s

95th percentile per-packet one-way delay: 9.142 ms

Loss rate: 0.00%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2018-01-02 10:52:18

End at: 2018-01-02 10:52:48

Local clock offset: -0.481 ms

Remote clock offset: 0.616 ms

Below is generated by plot.py at 2018-01-02 13:24:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.53 Mbit/s

95th percentile per-packet one-way delay: 7.179 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 75.03 Mbit/s

95th percentile per-packet one-way delay: 6.803 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 19.93 Mbit/s

95th percentile per-packet one-way delay: 8.495 ms

Loss rate: 0.00%

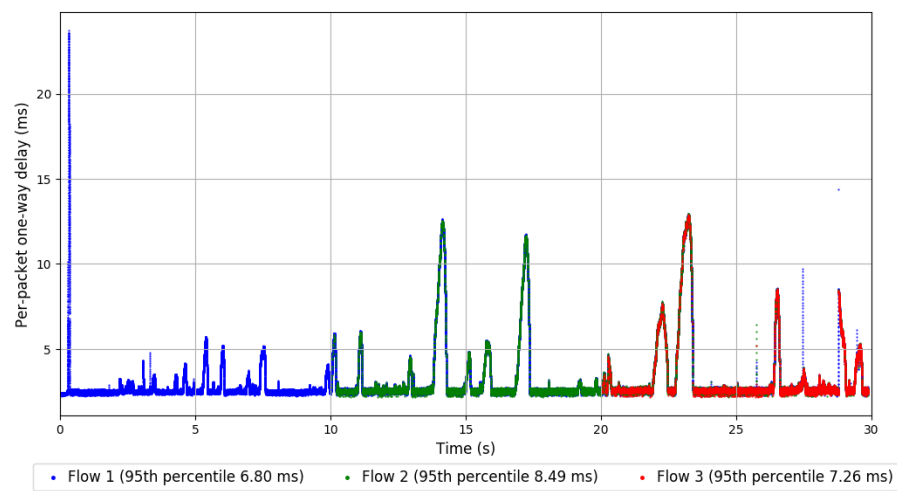
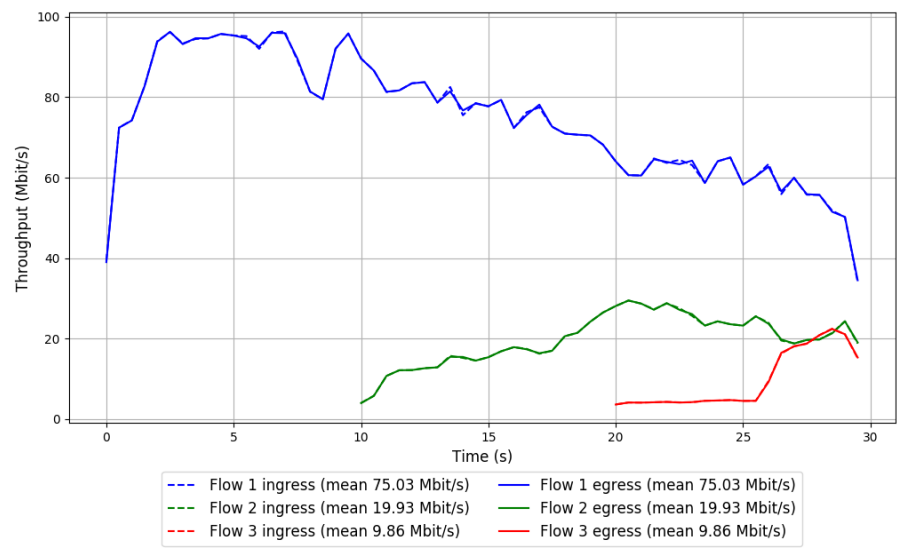
-- Flow 3:

Average throughput: 9.86 Mbit/s

95th percentile per-packet one-way delay: 7.259 ms

Loss rate: 0.00%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2018-01-02 11:09:23

End at: 2018-01-02 11:09:53

Local clock offset: -0.441 ms

Remote clock offset: 0.585 ms

Below is generated by plot.py at 2018-01-02 13:24:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.20 Mbit/s

95th percentile per-packet one-way delay: 24.954 ms

Loss rate: 0.15%

-- Flow 1:

Average throughput: 66.33 Mbit/s

95th percentile per-packet one-way delay: 7.849 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 28.68 Mbit/s

95th percentile per-packet one-way delay: 33.070 ms

Loss rate: 0.25%

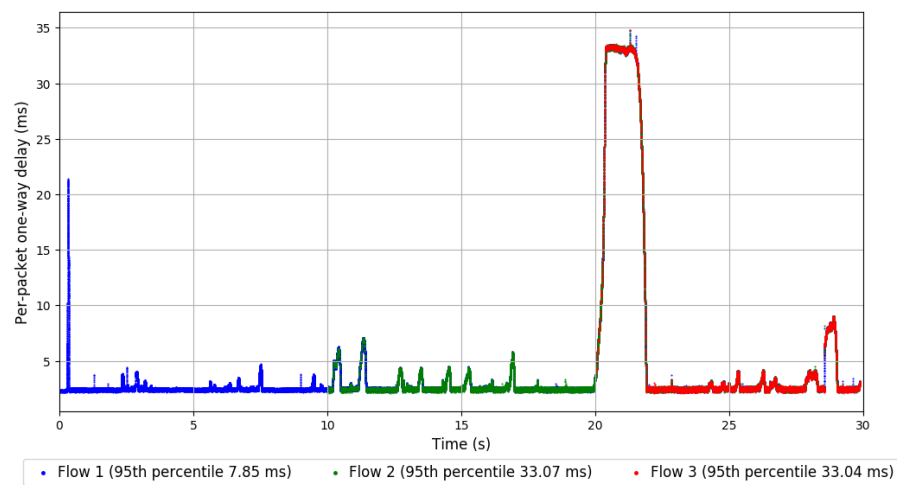
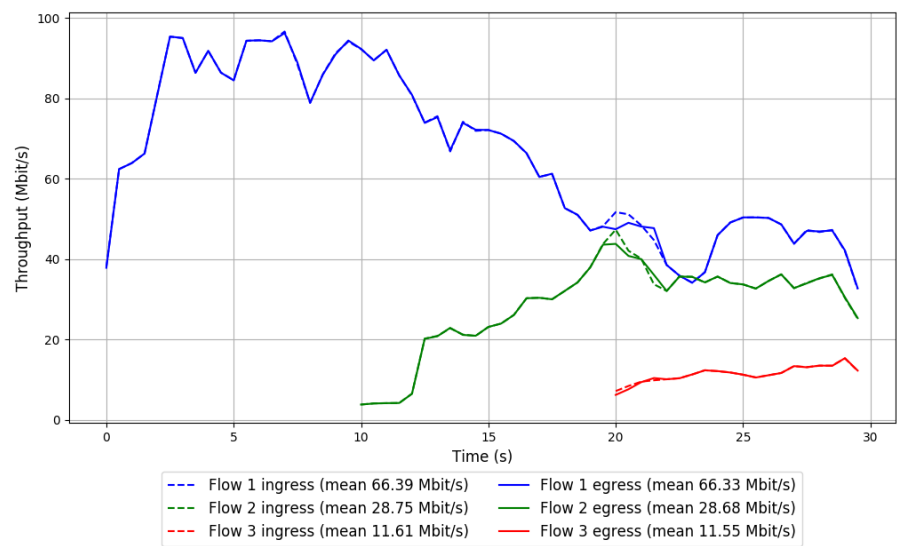
-- Flow 3:

Average throughput: 11.55 Mbit/s

95th percentile per-packet one-way delay: 33.041 ms

Loss rate: 0.56%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2018-01-02 11:26:27

End at: 2018-01-02 11:26:57

Local clock offset: -0.443 ms

Remote clock offset: 0.488 ms

Below is generated by plot.py at 2018-01-02 13:24:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.23 Mbit/s

95th percentile per-packet one-way delay: 4.108 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 75.59 Mbit/s

95th percentile per-packet one-way delay: 4.052 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 5.61 Mbit/s

95th percentile per-packet one-way delay: 3.936 ms

Loss rate: 0.00%

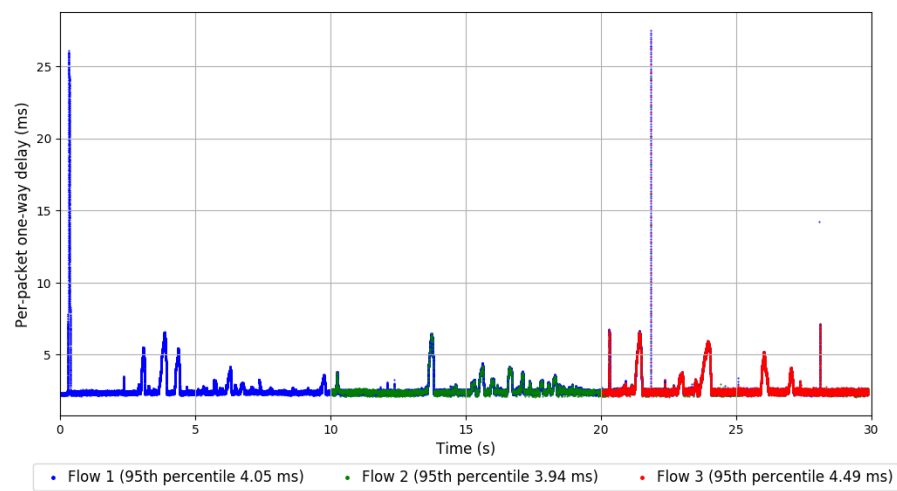
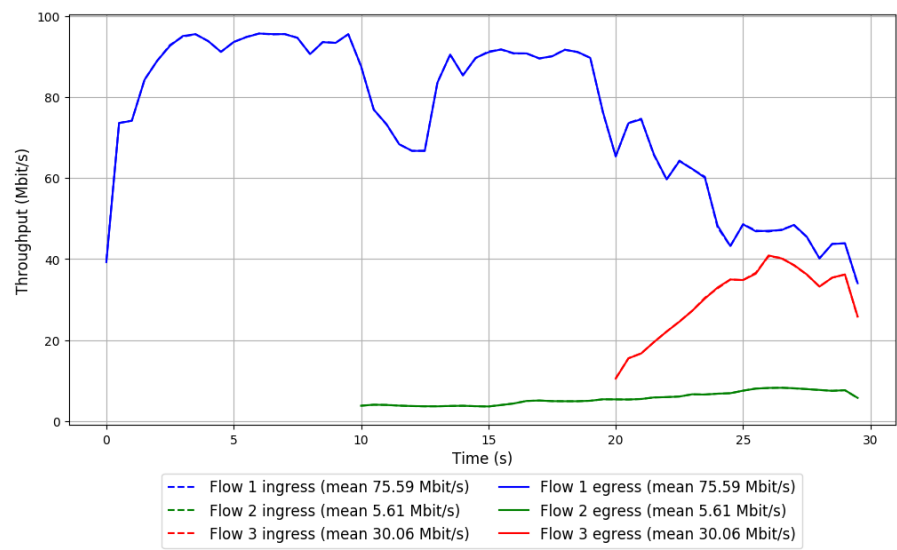
-- Flow 3:

Average throughput: 30.06 Mbit/s

95th percentile per-packet one-way delay: 4.492 ms

Loss rate: 0.00%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2018-01-02 11:43:33

End at: 2018-01-02 11:44:03

Local clock offset: -0.396 ms

Remote clock offset: 0.519 ms

Below is generated by plot.py at 2018-01-02 13:24:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.93 Mbit/s

95th percentile per-packet one-way delay: 9.775 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 71.85 Mbit/s

95th percentile per-packet one-way delay: 10.255 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 20.20 Mbit/s

95th percentile per-packet one-way delay: 8.128 ms

Loss rate: 0.00%

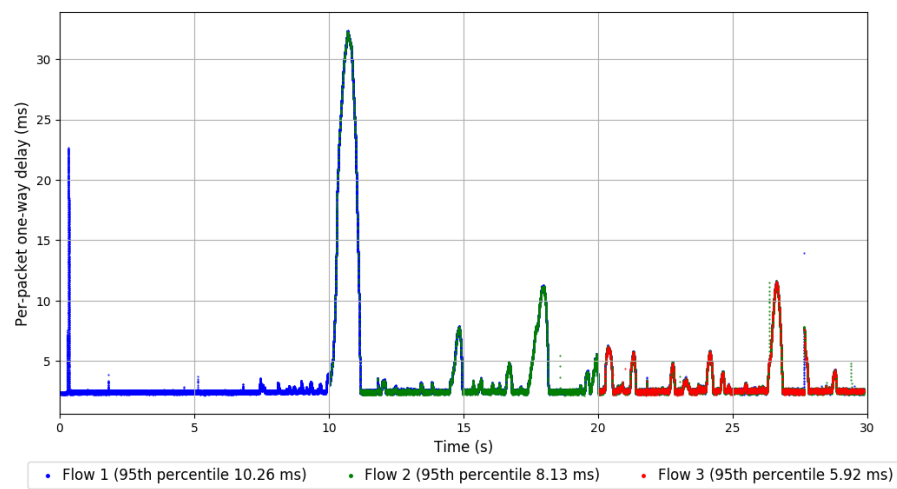
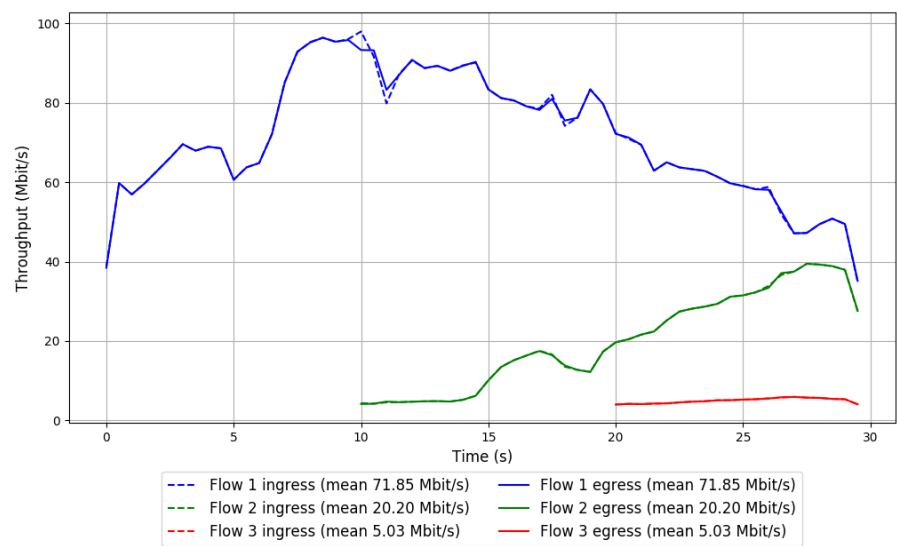
-- Flow 3:

Average throughput: 5.03 Mbit/s

95th percentile per-packet one-way delay: 5.922 ms

Loss rate: 0.00%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2018-01-02 12:00:38

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

Local clock offset: -0.353 ms

Remote clock offset: 0.488 ms

Below is generated by plot.py at 2018-01-02 13:24:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.42 Mbit/s

95th percentile per-packet one-way delay: 11.964 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 68.38 Mbit/s

95th percentile per-packet one-way delay: 8.909 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 20.57 Mbit/s

95th percentile per-packet one-way delay: 14.777 ms

Loss rate: 0.00%

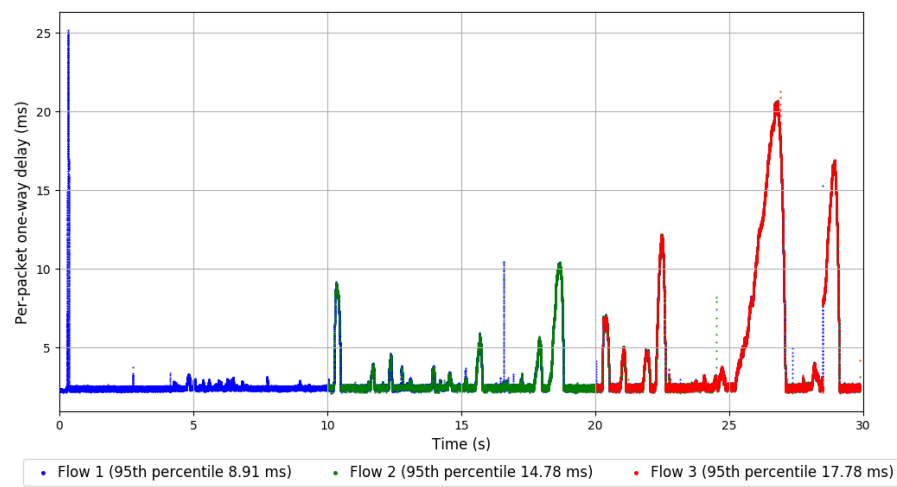
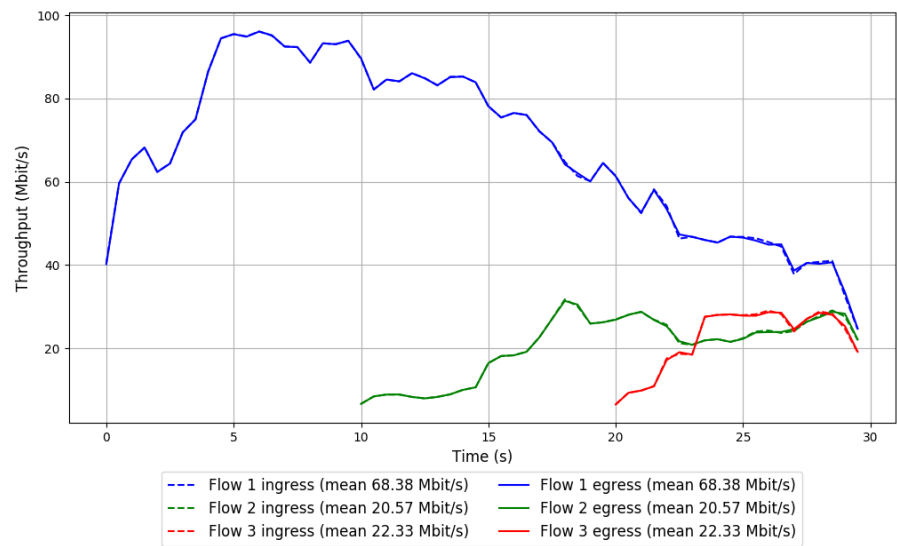
-- Flow 3:

Average throughput: 22.33 Mbit/s

95th percentile per-packet one-way delay: 17.779 ms

Loss rate: 0.00%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2018-01-02 12:17:46

End at: 2018-01-02 12:18:16

Local clock offset: -0.329 ms

Remote clock offset: 0.434 ms

Below is generated by plot.py at 2018-01-02 13:24:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 83.75 Mbit/s

95th percentile per-packet one-way delay: 6.707 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 60.73 Mbit/s

95th percentile per-packet one-way delay: 5.109 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 24.98 Mbit/s

95th percentile per-packet one-way delay: 7.768 ms

Loss rate: 0.00%

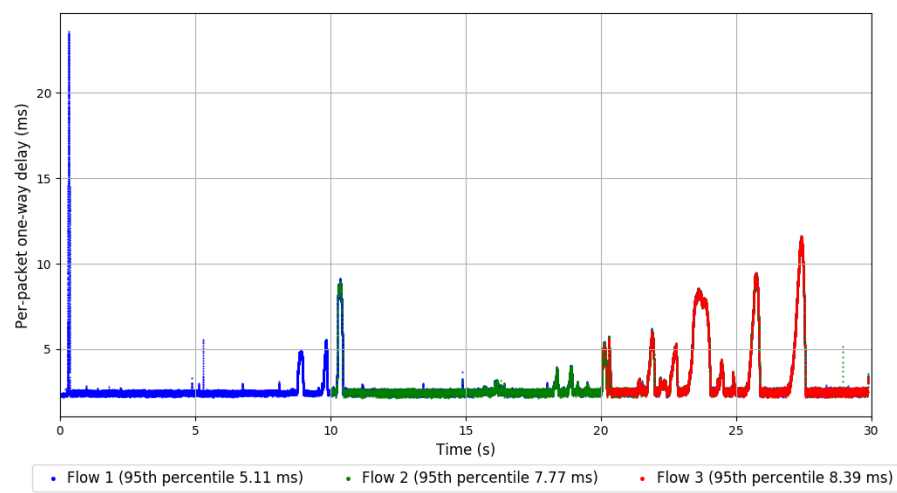
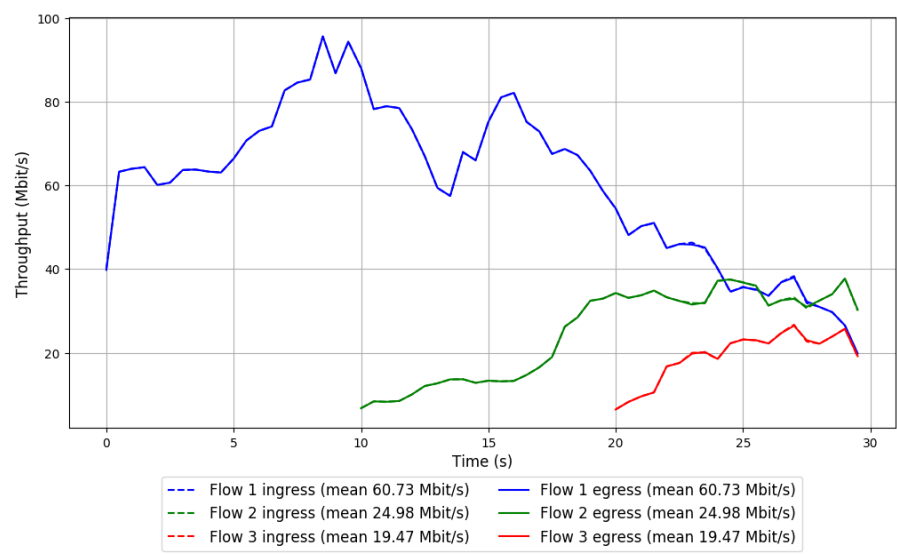
-- Flow 3:

Average throughput: 19.47 Mbit/s

95th percentile per-packet one-way delay: 8.394 ms

Loss rate: 0.00%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2018-01-02 12:34:51

End at: 2018-01-02 12:35:21

Local clock offset: -0.342 ms

Remote clock offset: 0.347 ms

Below is generated by plot.py at 2018-01-02 13:24:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.92 Mbit/s

95th percentile per-packet one-way delay: 33.099 ms

Loss rate: 0.47%

-- Flow 1:

Average throughput: 59.02 Mbit/s

95th percentile per-packet one-way delay: 15.900 ms

Loss rate: 0.33%

-- Flow 2:

Average throughput: 30.67 Mbit/s

95th percentile per-packet one-way delay: 33.237 ms

Loss rate: 0.68%

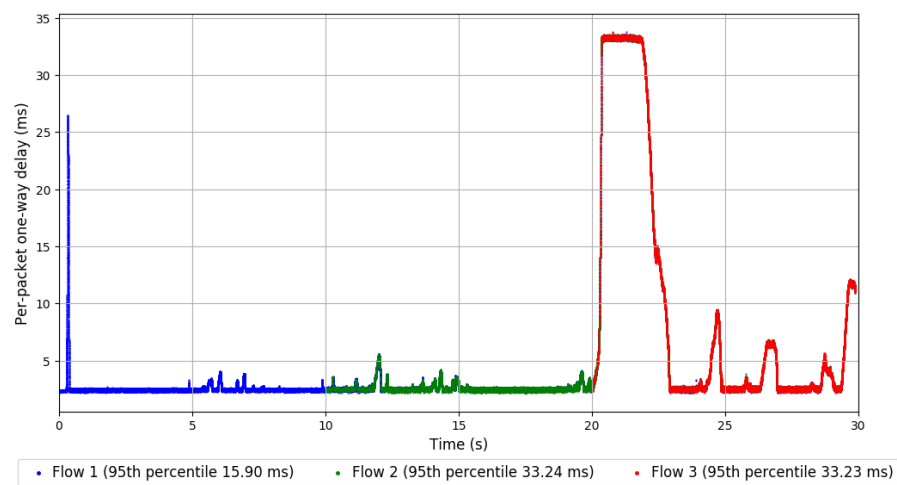
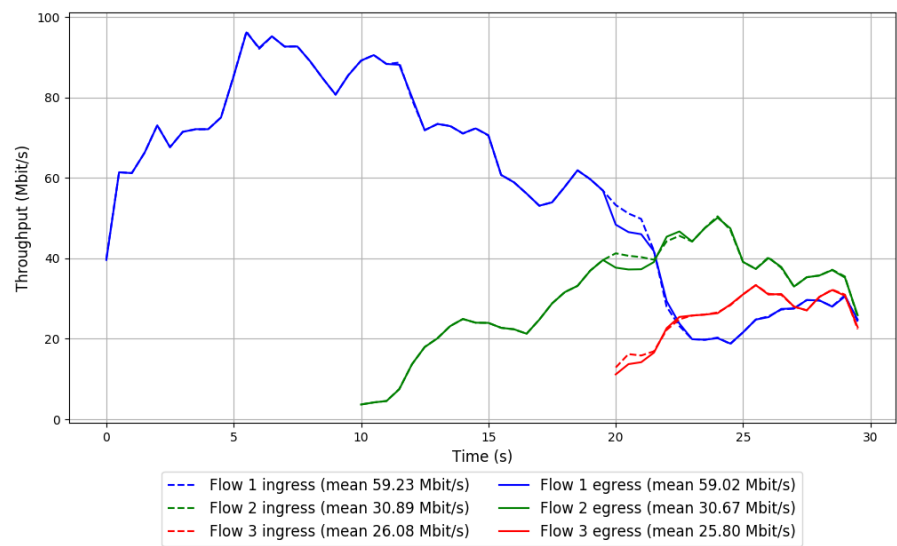
-- Flow 3:

Average throughput: 25.80 Mbit/s

95th percentile per-packet one-way delay: 33.228 ms

Loss rate: 0.99%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2018-01-02 12:51:59

End at: 2018-01-02 12:52:29

Local clock offset: -0.378 ms

Remote clock offset: 0.242 ms

Below is generated by plot.py at 2018-01-02 13:24:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.97 Mbit/s

95th percentile per-packet one-way delay: 6.716 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 79.12 Mbit/s

95th percentile per-packet one-way delay: 6.096 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 11.08 Mbit/s

95th percentile per-packet one-way delay: 9.361 ms

Loss rate: 0.00%

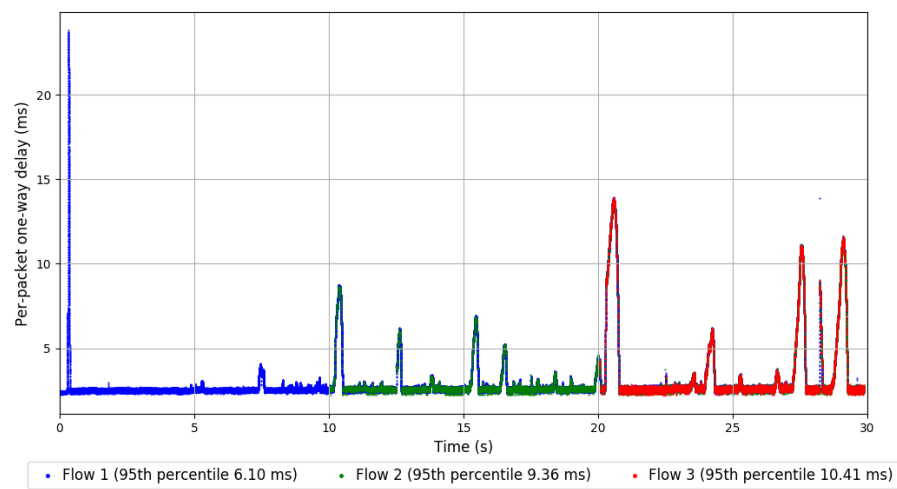
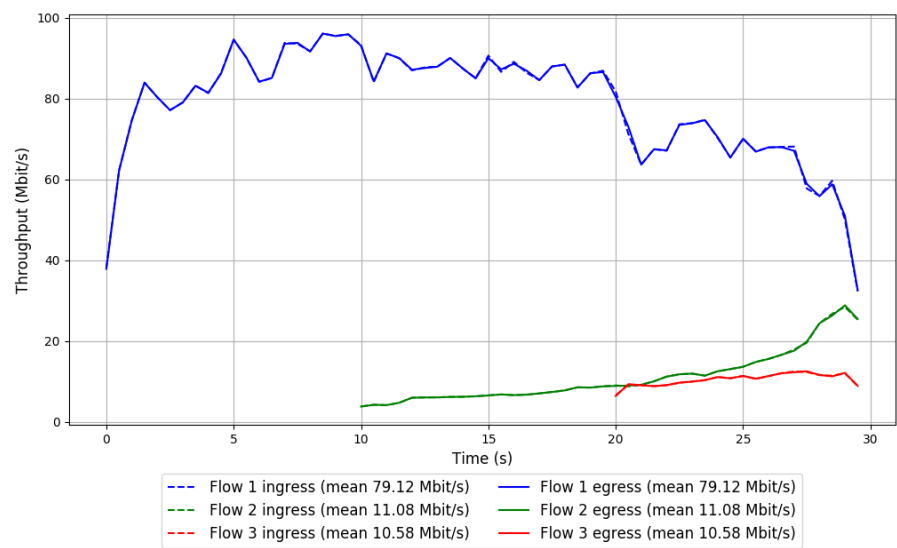
-- Flow 3:

Average throughput: 10.58 Mbit/s

95th percentile per-packet one-way delay: 10.414 ms

Loss rate: 0.00%

Run 10: Report of PCC — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2018-01-02 10:12:31

End at: 2018-01-02 10:13:01

Local clock offset: -0.389 ms

Remote clock offset: 0.738 ms

Below is generated by plot.py at 2018-01-02 13:25:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 90.03 Mbit/s

95th percentile per-packet one-way delay: 31.319 ms

Loss rate: 0.17%

-- Flow 1:

Average throughput: 56.90 Mbit/s

95th percentile per-packet one-way delay: 31.230 ms

Loss rate: 0.14%

-- Flow 2:

Average throughput: 34.69 Mbit/s

95th percentile per-packet one-way delay: 31.394 ms

Loss rate: 0.25%

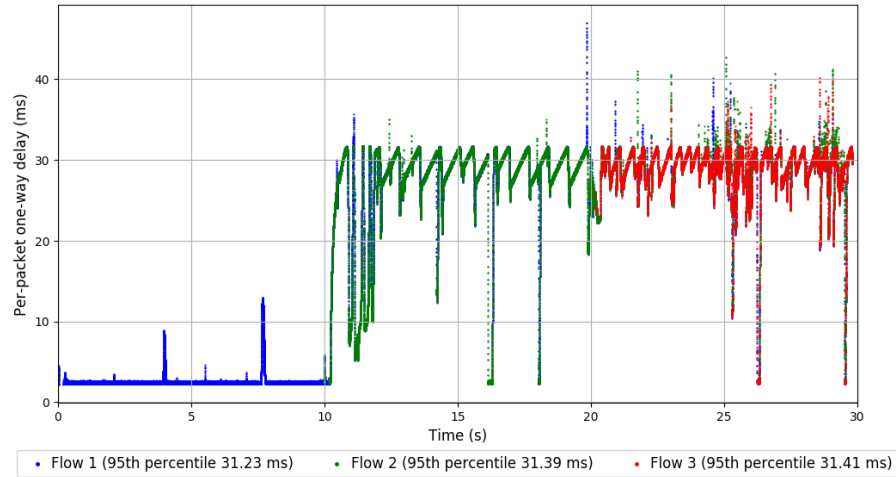
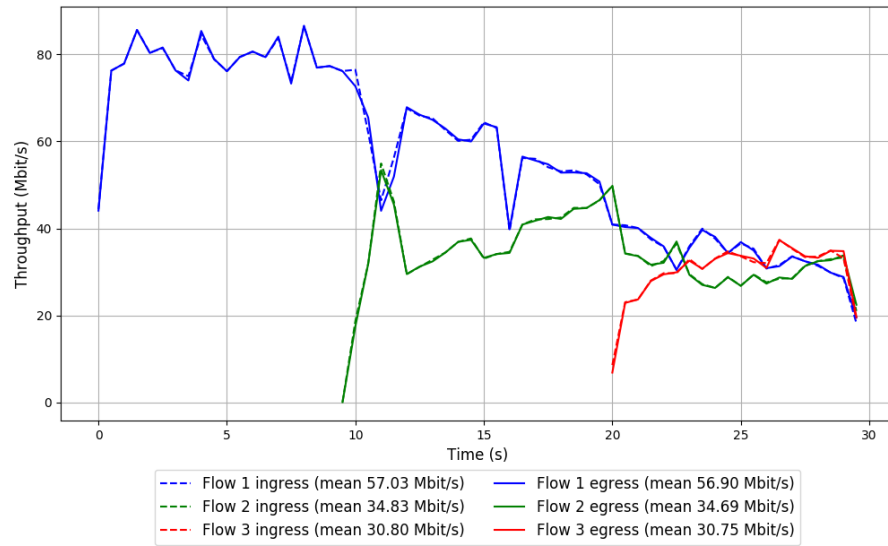
-- Flow 3:

Average throughput: 30.75 Mbit/s

95th percentile per-packet one-way delay: 31.405 ms

Loss rate: 0.16%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-01-02 10:29:35

End at: 2018-01-02 10:30:05

Local clock offset: -0.497 ms

Remote clock offset: 0.701 ms

Below is generated by plot.py at 2018-01-02 13:26:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.83 Mbit/s

95th percentile per-packet one-way delay: 31.427 ms

Loss rate: 0.15%

-- Flow 1:

Average throughput: 56.93 Mbit/s

95th percentile per-packet one-way delay: 31.326 ms

Loss rate: 0.12%

-- Flow 2:

Average throughput: 36.89 Mbit/s

95th percentile per-packet one-way delay: 31.502 ms

Loss rate: 0.19%

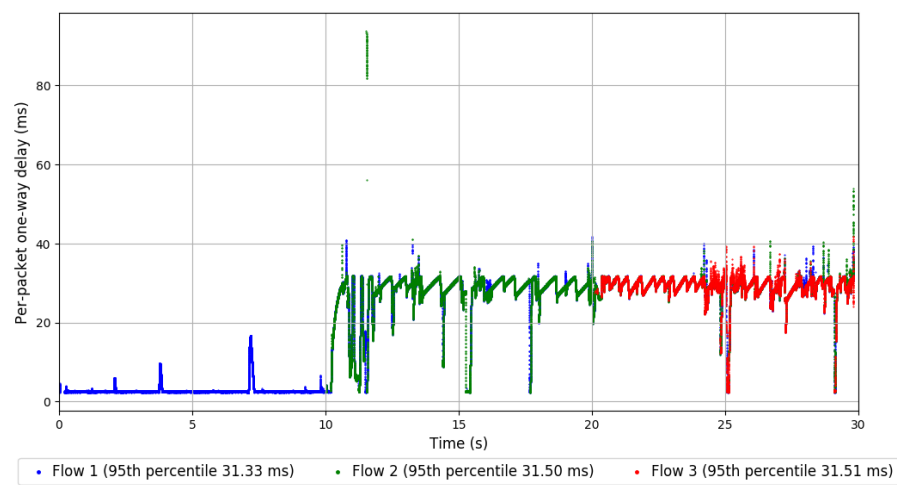
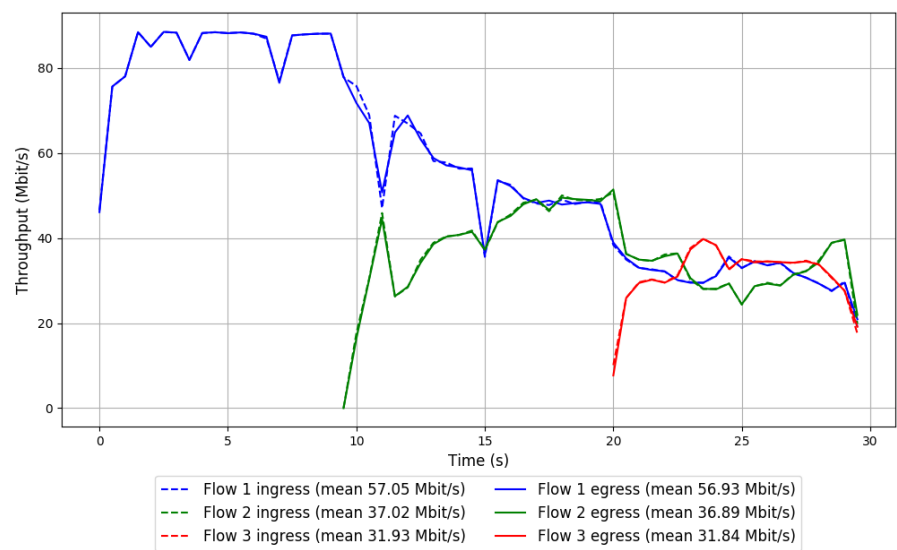
-- Flow 3:

Average throughput: 31.84 Mbit/s

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

Loss rate: 0.25%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-01-02 10:46:40

End at: 2018-01-02 10:47:10

Local clock offset: -0.434 ms

Remote clock offset: 0.621 ms

Below is generated by plot.py at 2018-01-02 13:26:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 90.40 Mbit/s

95th percentile per-packet one-way delay: 31.347 ms

Loss rate: 0.13%

-- Flow 1:

Average throughput: 56.68 Mbit/s

95th percentile per-packet one-way delay: 31.286 ms

Loss rate: 0.09%

-- Flow 2:

Average throughput: 36.12 Mbit/s

95th percentile per-packet one-way delay: 31.387 ms

Loss rate: 0.20%

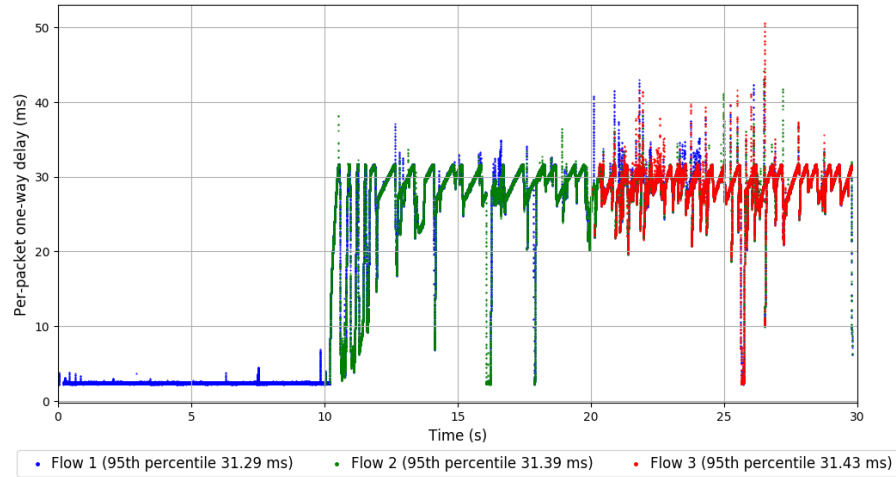
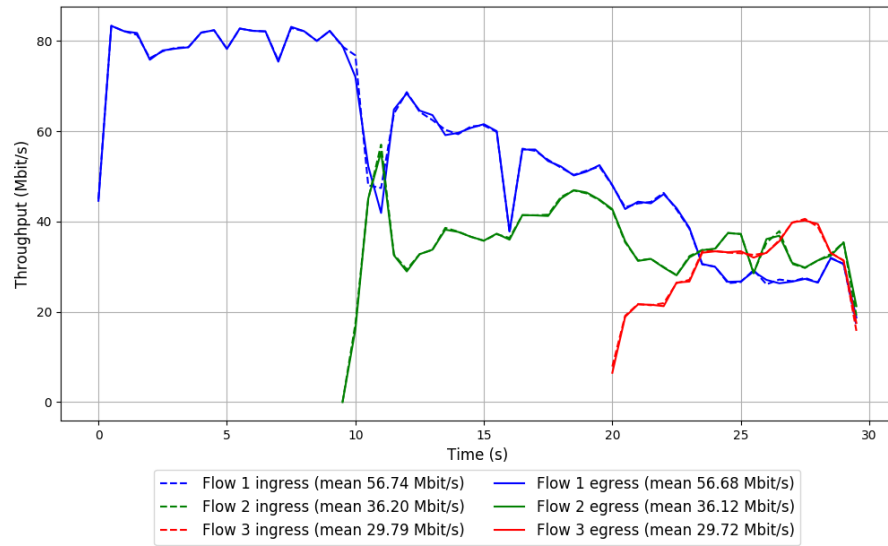
-- Flow 3:

Average throughput: 29.72 Mbit/s

95th percentile per-packet one-way delay: 31.435 ms

Loss rate: 0.19%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-01-02 11:03:45

End at: 2018-01-02 11:04:15

Local clock offset: -0.425 ms

Remote clock offset: 0.535 ms

Below is generated by plot.py at 2018-01-02 13:26:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 90.55 Mbit/s

95th percentile per-packet one-way delay: 31.211 ms

Loss rate: 0.17%

-- Flow 1:

Average throughput: 56.74 Mbit/s

95th percentile per-packet one-way delay: 31.137 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 38.86 Mbit/s

95th percentile per-packet one-way delay: 31.274 ms

Loss rate: 0.22%

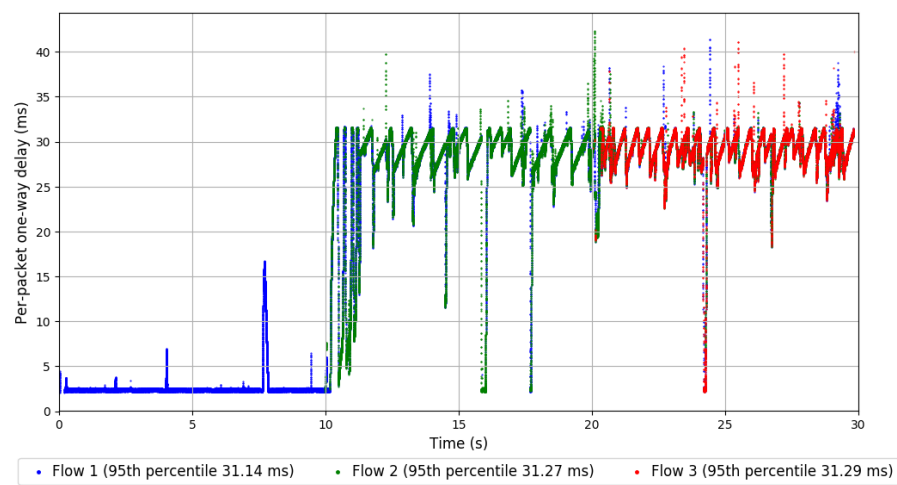
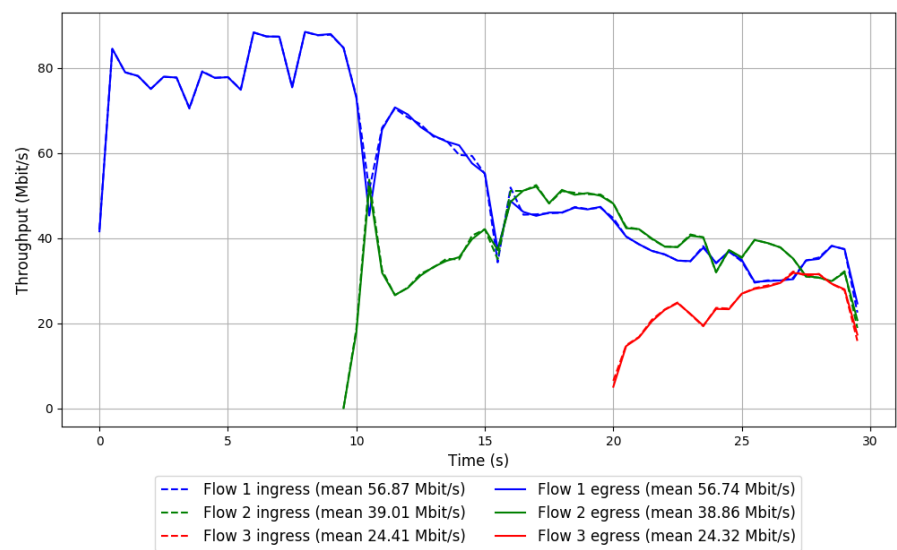
-- Flow 3:

Average throughput: 24.32 Mbit/s

95th percentile per-packet one-way delay: 31.286 ms

Loss rate: 0.27%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-01-02 11:20:50

End at: 2018-01-02 11:21:20

Local clock offset: -0.447 ms

Remote clock offset: 0.553 ms

Below is generated by plot.py at 2018-01-02 13:26:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 90.31 Mbit/s

95th percentile per-packet one-way delay: 31.312 ms

Loss rate: 0.16%

-- Flow 1:

Average throughput: 55.83 Mbit/s

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

Loss rate: 0.12%

-- Flow 2:

Average throughput: 36.02 Mbit/s

95th percentile per-packet one-way delay: 31.370 ms

Loss rate: 0.23%

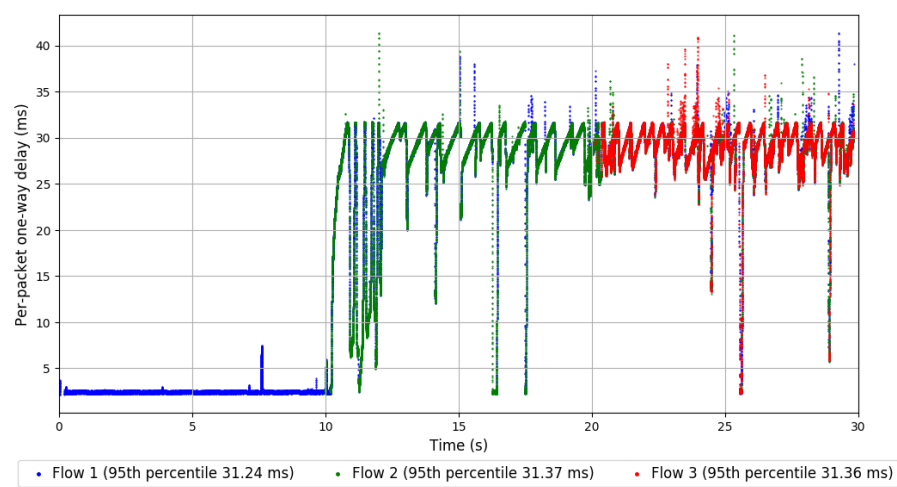
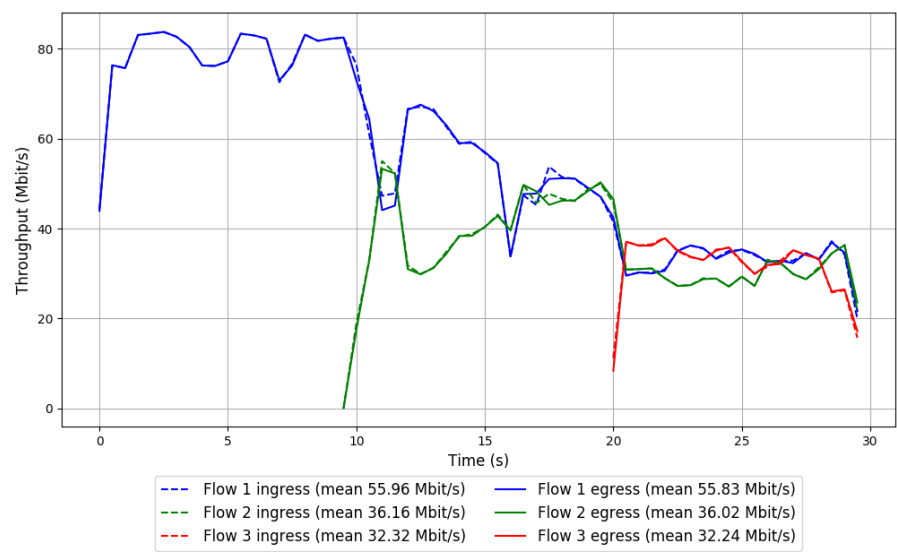
-- Flow 3:

Average throughput: 32.24 Mbit/s

95th percentile per-packet one-way delay: 31.359 ms

Loss rate: 0.23%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-01-02 11:37:55

End at: 2018-01-02 11:38:25

Local clock offset: -0.392 ms

Remote clock offset: 0.539 ms

Below is generated by plot.py at 2018-01-02 13:26:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.53 Mbit/s

95th percentile per-packet one-way delay: 31.315 ms

Loss rate: 0.15%

-- Flow 1:

Average throughput: 57.52 Mbit/s

95th percentile per-packet one-way delay: 31.206 ms

Loss rate: 0.11%

-- Flow 2:

Average throughput: 36.13 Mbit/s

95th percentile per-packet one-way delay: 31.391 ms

Loss rate: 0.24%

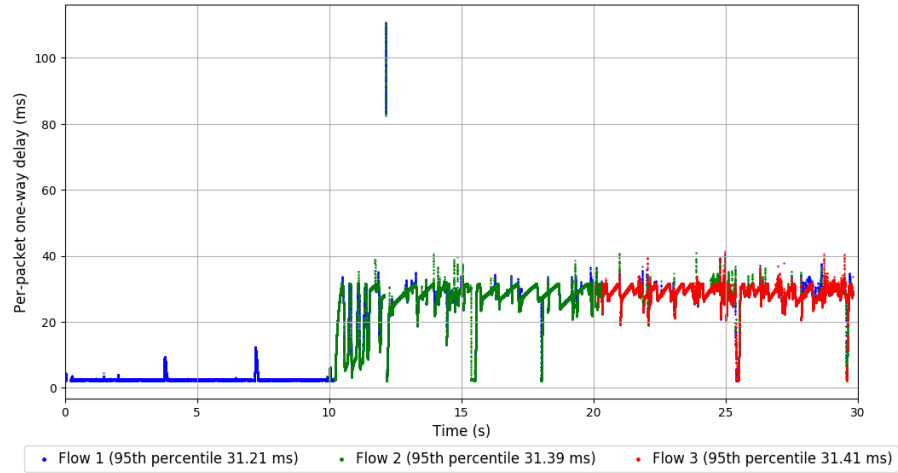
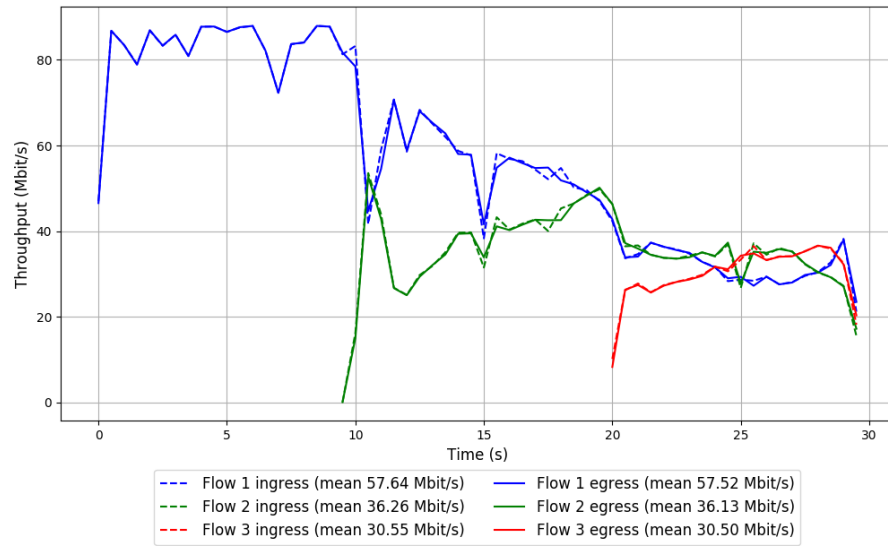
-- Flow 3:

Average throughput: 30.50 Mbit/s

95th percentile per-packet one-way delay: 31.412 ms

Loss rate: 0.18%

Run 6: Report of QUIC Cubic — Data Link

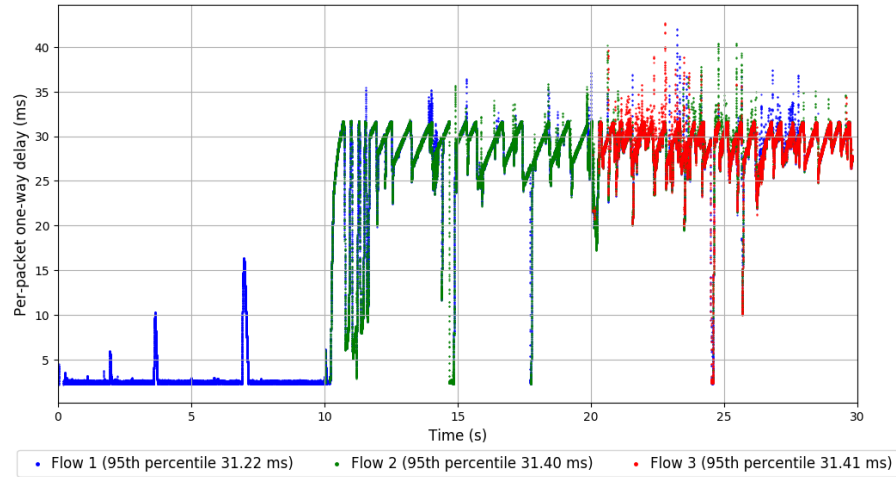
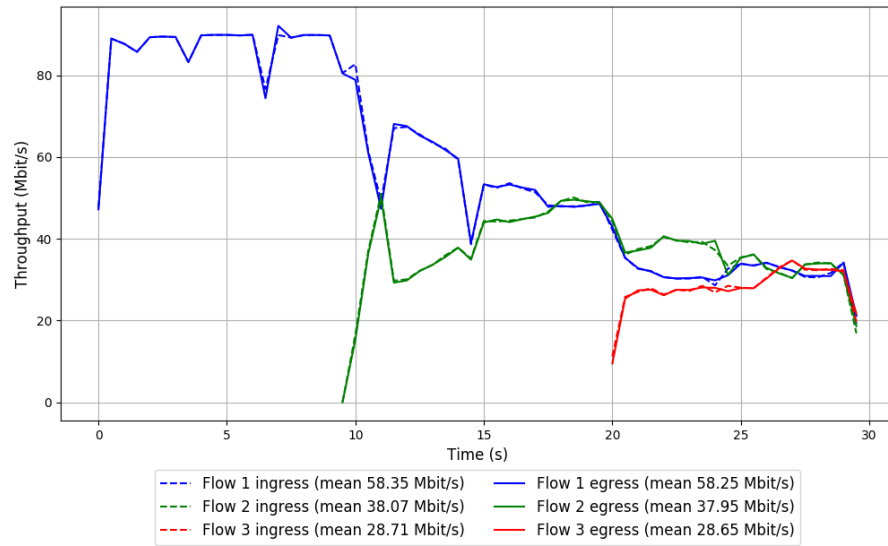


Run 7: Statistics of QUIC Cubic

Start at: 2018-01-02 11:55:00
End at: 2018-01-02 11:55:30
Local clock offset: -0.369 ms
Remote clock offset: 0.511 ms

Below is generated by plot.py at 2018-01-02 13:26:14
Datalink statistics
-- Total of 3 flows:
Average throughput: 92.86 Mbit/s
95th percentile per-packet one-way delay: 31.322 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 58.25 Mbit/s
95th percentile per-packet one-way delay: 31.222 ms
Loss rate: 0.09%
-- Flow 2:
Average throughput: 37.95 Mbit/s
95th percentile per-packet one-way delay: 31.396 ms
Loss rate: 0.20%
-- Flow 3:
Average throughput: 28.65 Mbit/s
95th percentile per-packet one-way delay: 31.414 ms
Loss rate: 0.23%

Run 7: Report of QUIC Cubic — Data Link

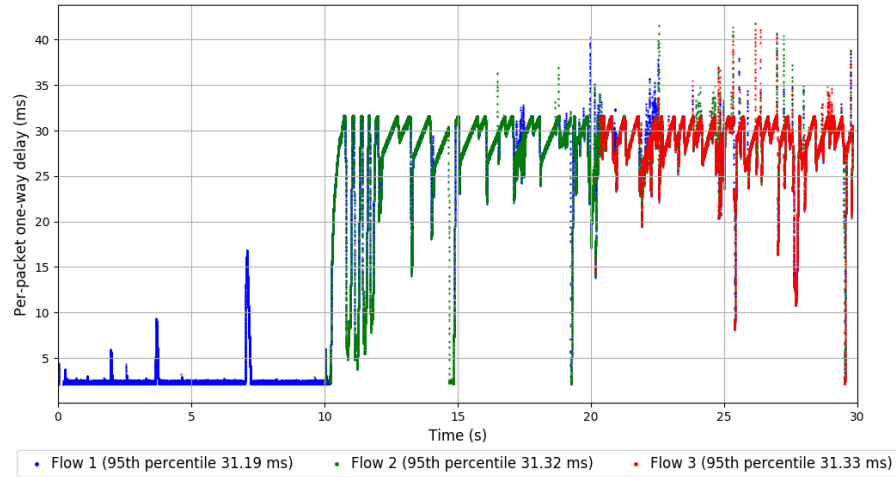
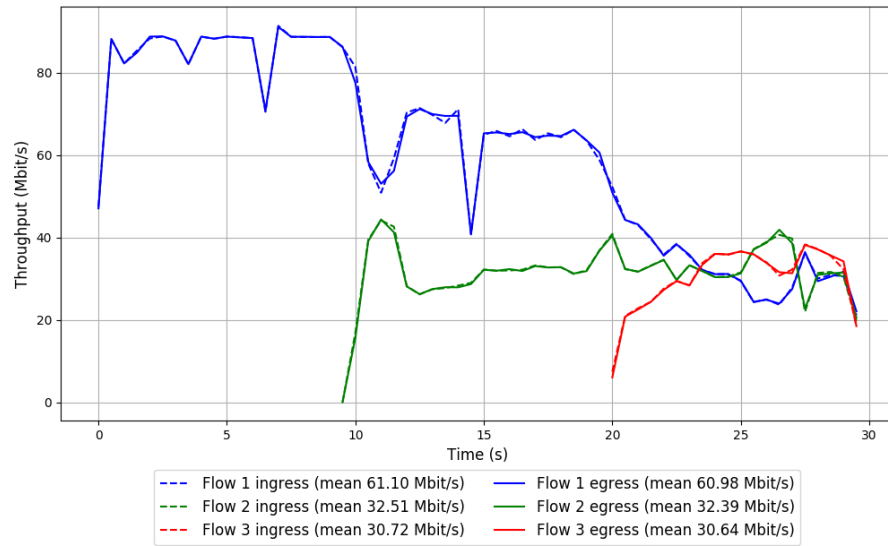


Run 8: Statistics of QUIC Cubic

Start at: 2018-01-02 12:12:08
End at: 2018-01-02 12:12:38
Local clock offset: -0.339 ms
Remote clock offset: 0.385 ms

Below is generated by plot.py at 2018-01-02 13:26:16
Datalink statistics
-- Total of 3 flows:
Average throughput: 92.54 Mbit/s
95th percentile per-packet one-way delay: 31.258 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 60.98 Mbit/s
95th percentile per-packet one-way delay: 31.193 ms
Loss rate: 0.09%
-- Flow 2:
Average throughput: 32.39 Mbit/s
95th percentile per-packet one-way delay: 31.316 ms
Loss rate: 0.23%
-- Flow 3:
Average throughput: 30.64 Mbit/s
95th percentile per-packet one-way delay: 31.327 ms
Loss rate: 0.18%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-01-02 12:29:13

End at: 2018-01-02 12:29:43

Local clock offset: -0.332 ms

Remote clock offset: 0.32 ms

Below is generated by plot.py at 2018-01-02 13:27:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.73 Mbit/s

95th percentile per-packet one-way delay: 31.272 ms

Loss rate: 0.19%

-- Flow 1:

Average throughput: 58.65 Mbit/s

95th percentile per-packet one-way delay: 31.182 ms

Loss rate: 0.17%

-- Flow 2:

Average throughput: 37.86 Mbit/s

95th percentile per-packet one-way delay: 31.340 ms

Loss rate: 0.22%

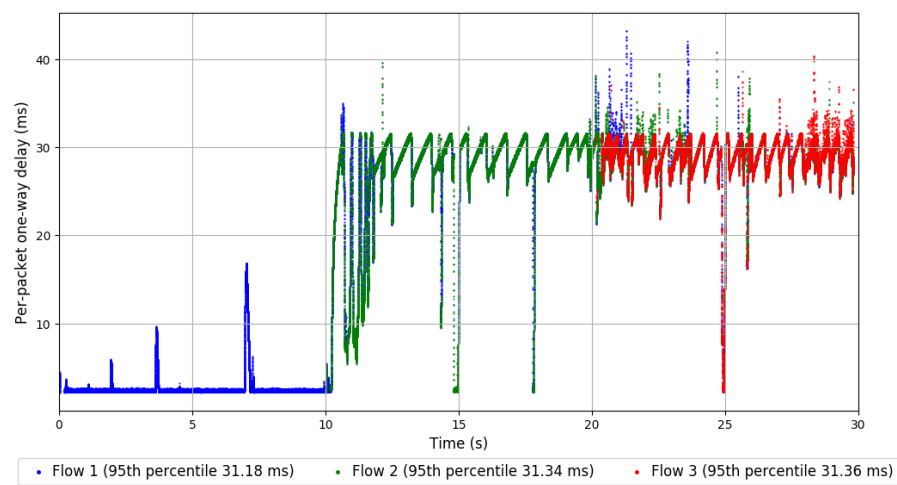
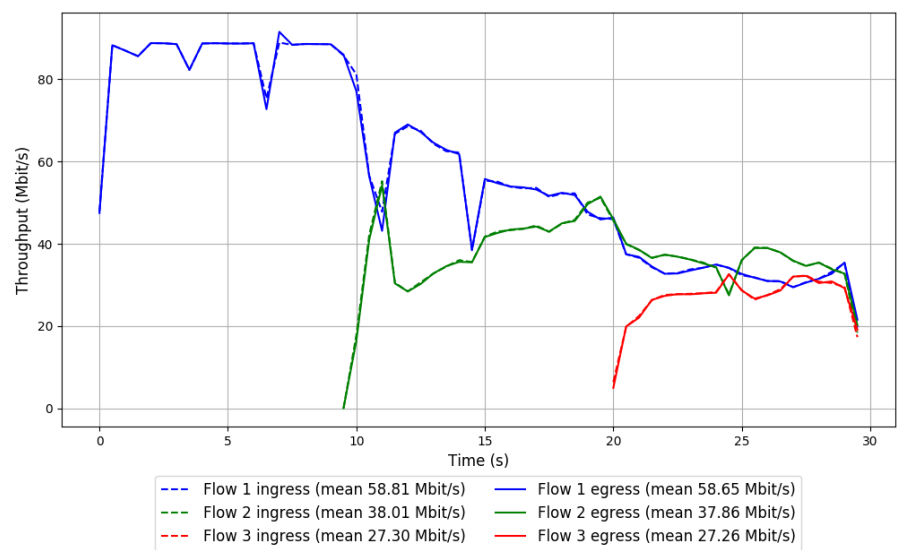
-- Flow 3:

Average throughput: 27.26 Mbit/s

95th percentile per-packet one-way delay: 31.358 ms

Loss rate: 0.19%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-01-02 12:46:21

End at: 2018-01-02 12:46:51

Local clock offset: -0.401 ms

Remote clock offset: 0.204 ms

Below is generated by plot.py at 2018-01-02 13:27:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.24 Mbit/s

95th percentile per-packet one-way delay: 31.315 ms

Loss rate: 0.16%

-- Flow 1:

Average throughput: 59.32 Mbit/s

95th percentile per-packet one-way delay: 31.261 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 34.17 Mbit/s

95th percentile per-packet one-way delay: 31.383 ms

Loss rate: 0.25%

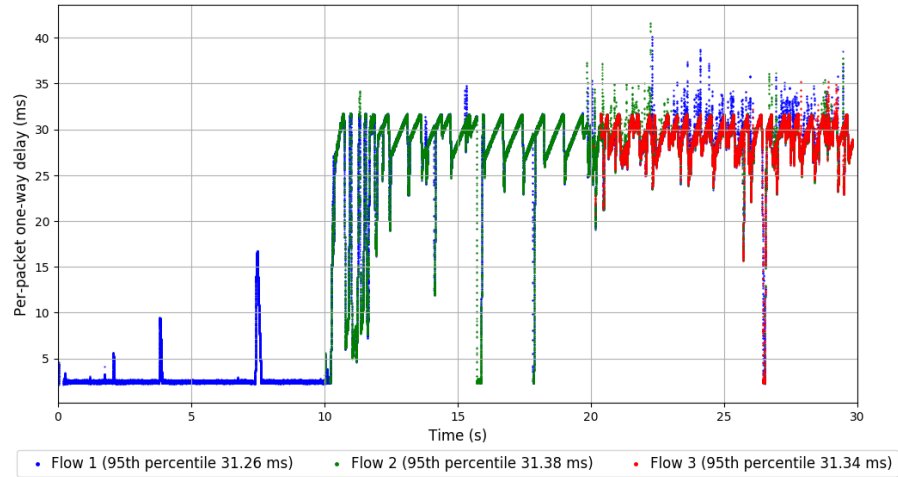
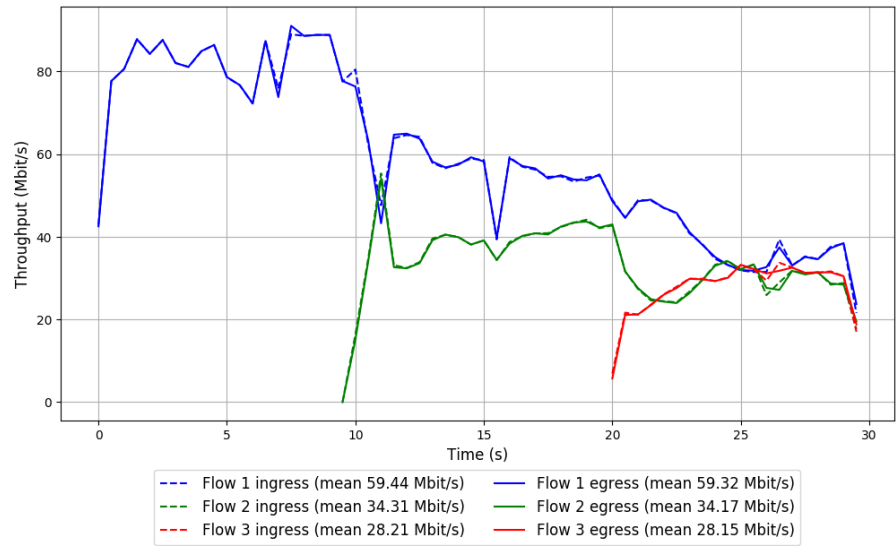
-- Flow 3:

Average throughput: 28.15 Mbit/s

95th percentile per-packet one-way delay: 31.344 ms

Loss rate: 0.16%

Run 10: Report of QUIC Cubic — Data Link



Run 1: Statistics of SReAM

Start at: 2018-01-02 10:06:49

End at: 2018-01-02 10:07:19

Local clock offset: -0.359 ms

Remote clock offset: 0.757 ms

Below is generated by plot.py at 2018-01-02 13:27:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 2.353 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.353 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.354 ms

Loss rate: 0.00%

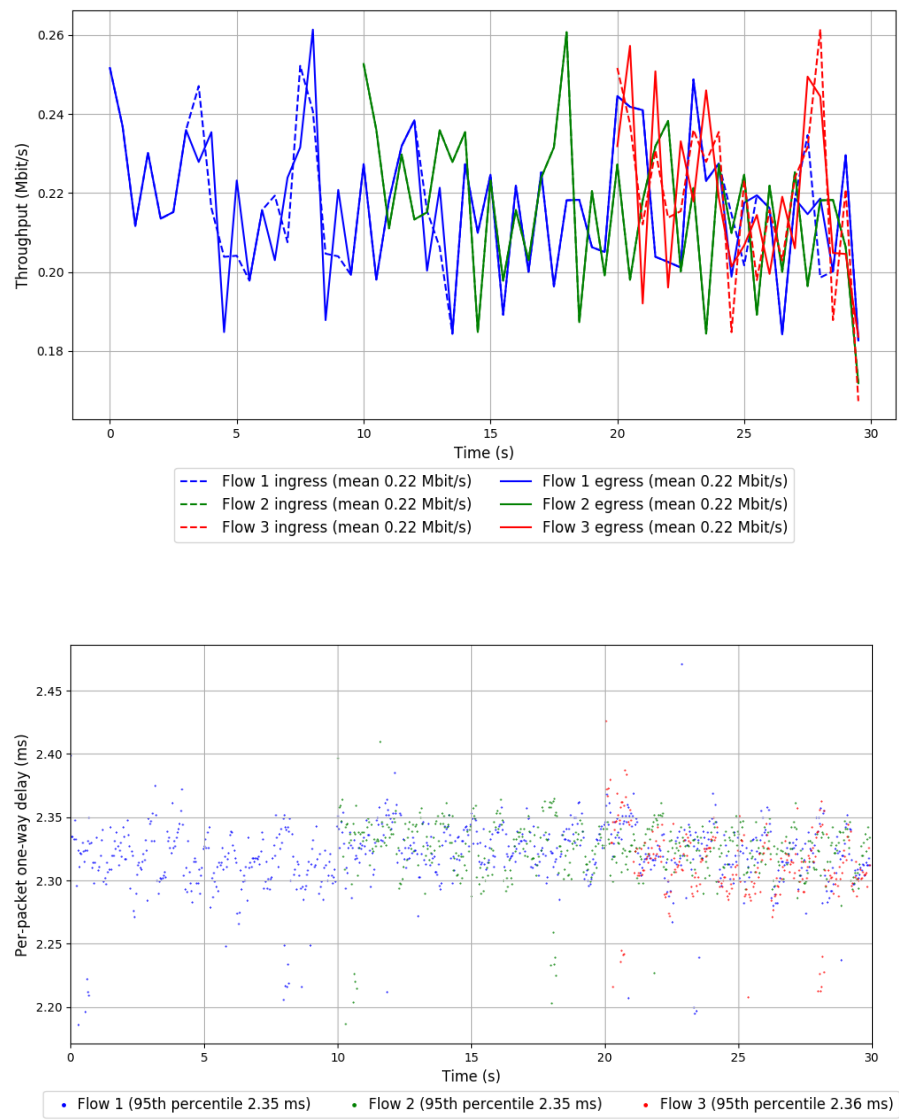
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.358 ms

Loss rate: 0.00%

Run 1: Report of SReAM — Data Link

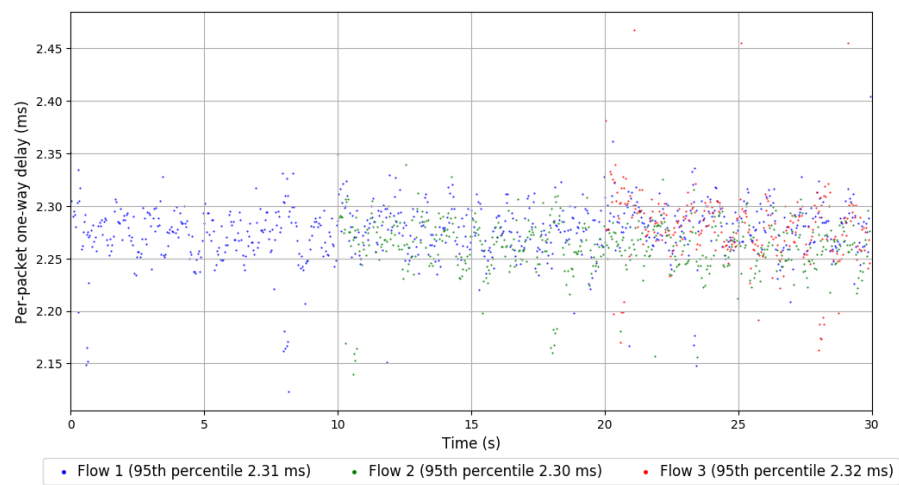
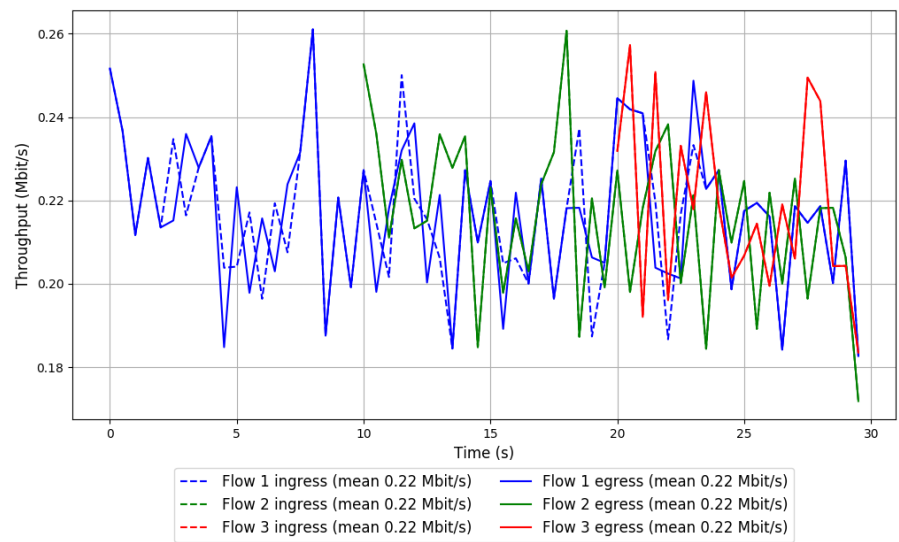


Run 2: Statistics of SReAM

Start at: 2018-01-02 10:23:53
End at: 2018-01-02 10:24:23
Local clock offset: -0.409 ms
Remote clock offset: 0.648 ms

Below is generated by plot.py at 2018-01-02 13:27:42
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 2.311 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.312 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.296 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.319 ms
Loss rate: 0.00%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SReAM

Start at: 2018-01-02 10:40:58

End at: 2018-01-02 10:41:28

Local clock offset: -0.44 ms

Remote clock offset: 0.639 ms

Below is generated by plot.py at 2018-01-02 13:27:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 2.382 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.385 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.370 ms

Loss rate: 0.00%

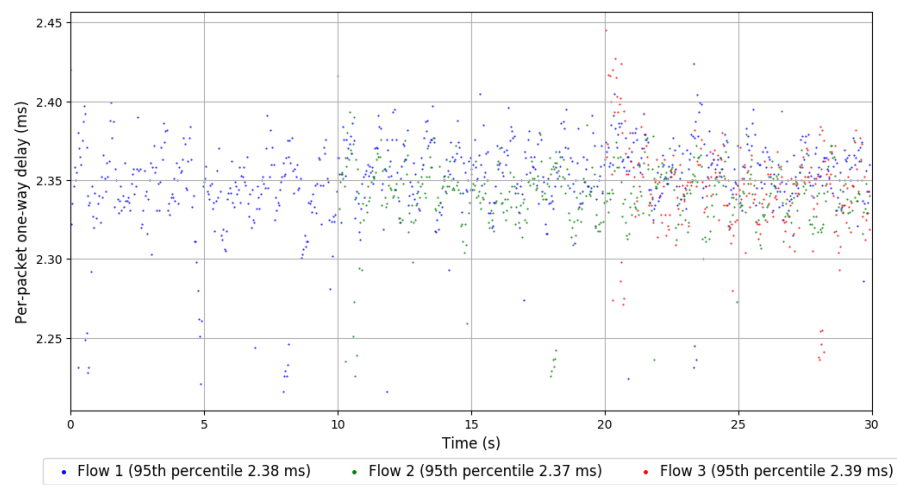
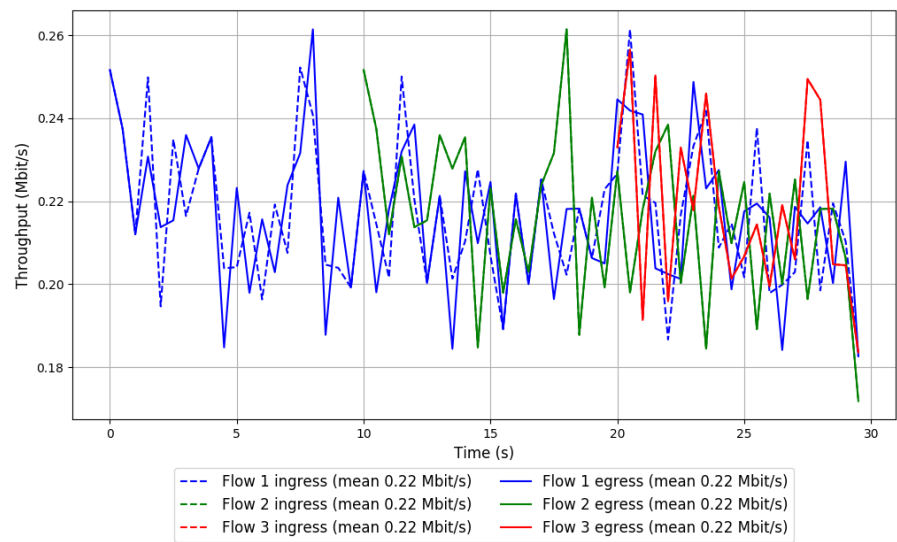
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.393 ms

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SReAM

Start at: 2018-01-02 10:58:03

End at: 2018-01-02 10:58:33

Local clock offset: -0.421 ms

Remote clock offset: 0.604 ms

Below is generated by plot.py at 2018-01-02 13:27:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 2.345 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.346 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.330 ms

Loss rate: 0.00%

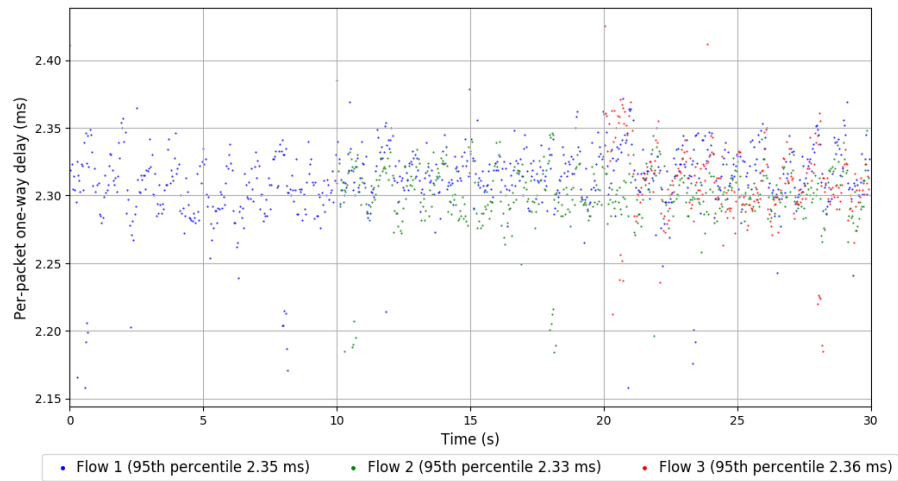
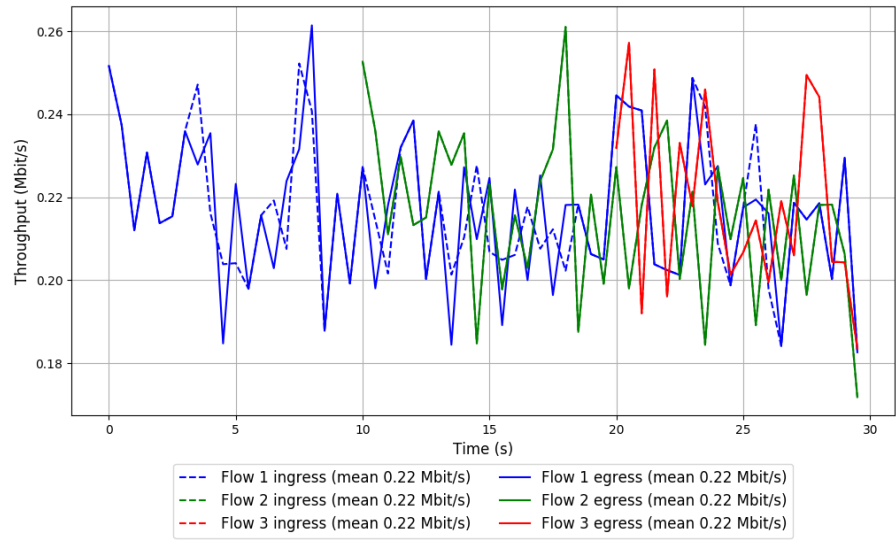
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.359 ms

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SReAM

Start at: 2018-01-02 11:15:07

End at: 2018-01-02 11:15:38

Local clock offset: -0.45 ms

Remote clock offset: 0.584 ms

Below is generated by plot.py at 2018-01-02 13:27:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 2.367 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.369 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.360 ms

Loss rate: 0.00%

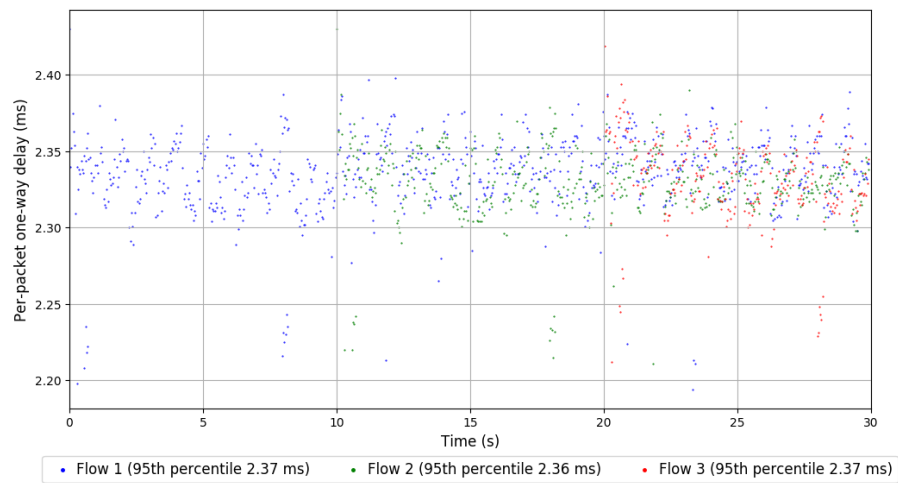
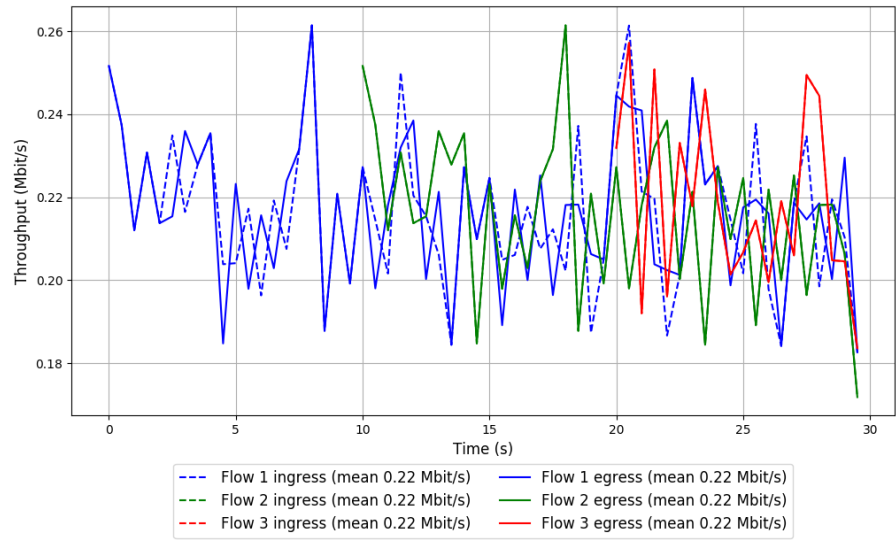
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.370 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SReAM

Start at: 2018-01-02 11:32:13

End at: 2018-01-02 11:32:43

Local clock offset: -0.411 ms

Remote clock offset: 0.549 ms

Below is generated by plot.py at 2018-01-02 13:27:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 2.366 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.365 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.358 ms

Loss rate: 0.00%

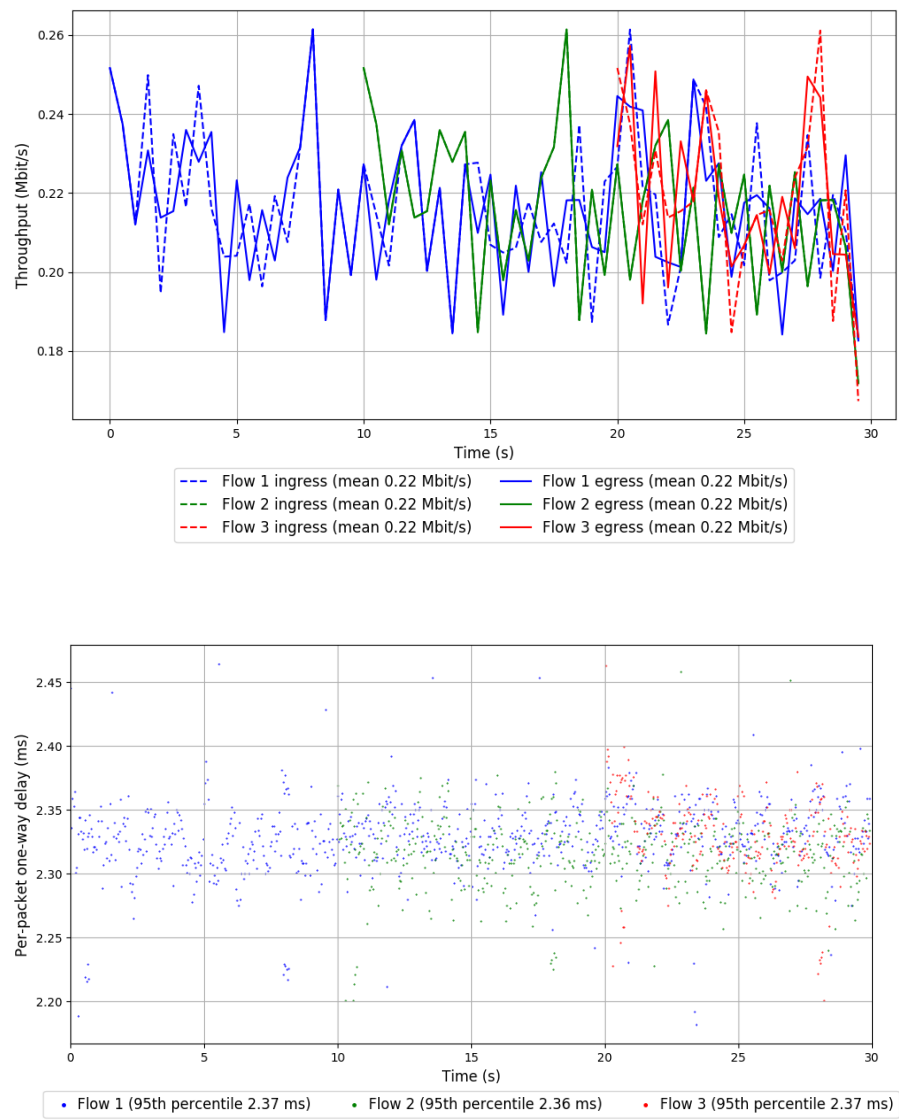
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.374 ms

Loss rate: 0.00%

Run 6: Report of SReAM — Data Link

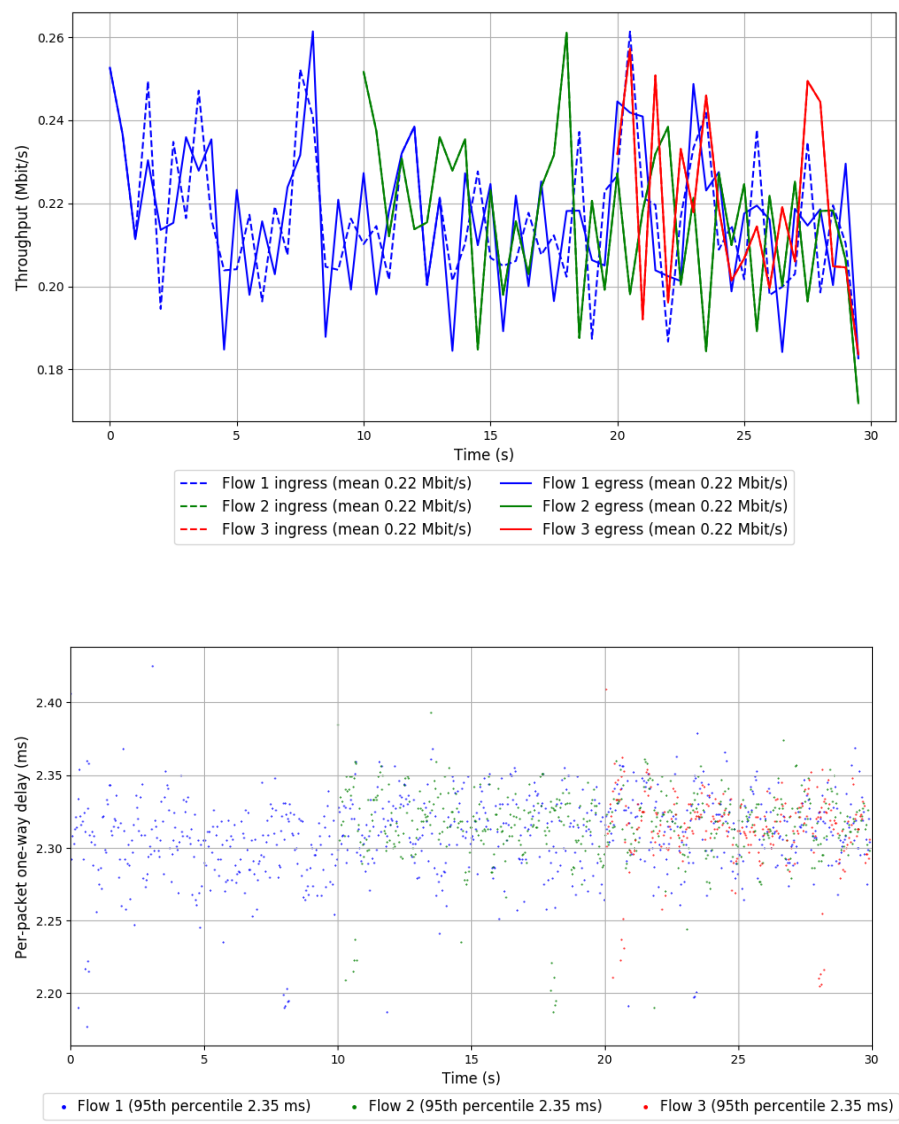


Run 7: Statistics of SReAM

Start at: 2018-01-02 11:49:17
End at: 2018-01-02 11:49:47
Local clock offset: -0.414 ms
Remote clock offset: 0.449 ms

Below is generated by plot.py at 2018-01-02 13:27:42
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 2.349 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.350 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.349 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.347 ms
Loss rate: 0.00%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SReAM

Start at: 2018-01-02 12:06:26

End at: 2018-01-02 12:06:56

Local clock offset: -0.349 ms

Remote clock offset: 0.49 ms

Below is generated by plot.py at 2018-01-02 13:27:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 2.373 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.376 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.366 ms

Loss rate: 0.00%

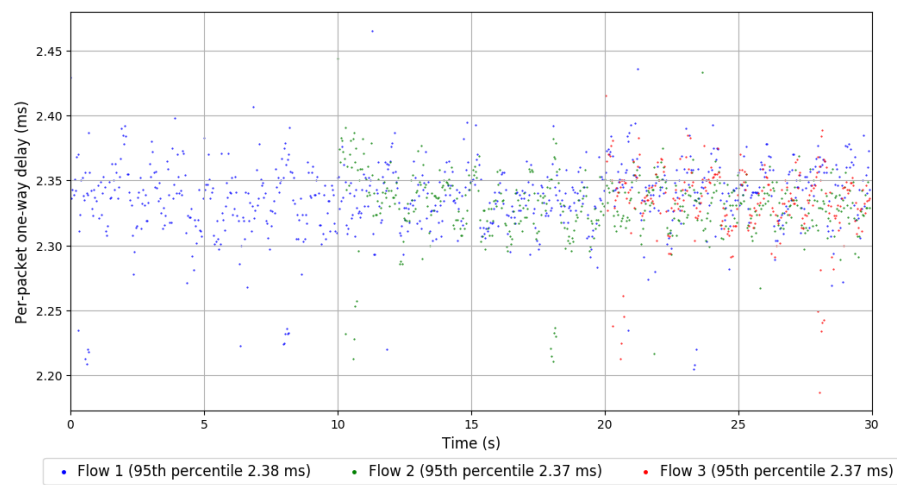
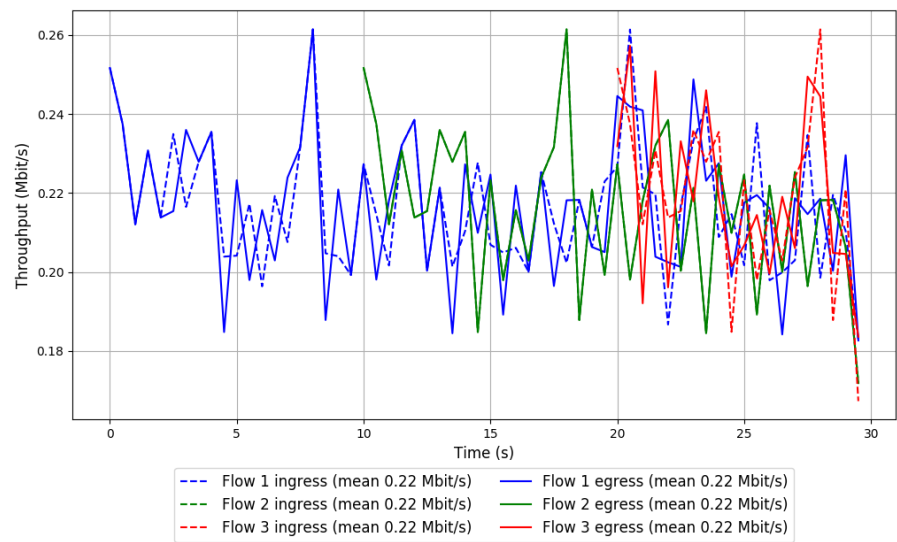
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.369 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SReAM

Start at: 2018-01-02 12:23:30

End at: 2018-01-02 12:24:00

Local clock offset: -0.343 ms

Remote clock offset: 0.334 ms

Below is generated by plot.py at 2018-01-02 13:27:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 2.306 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.308 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.303 ms

Loss rate: 0.00%

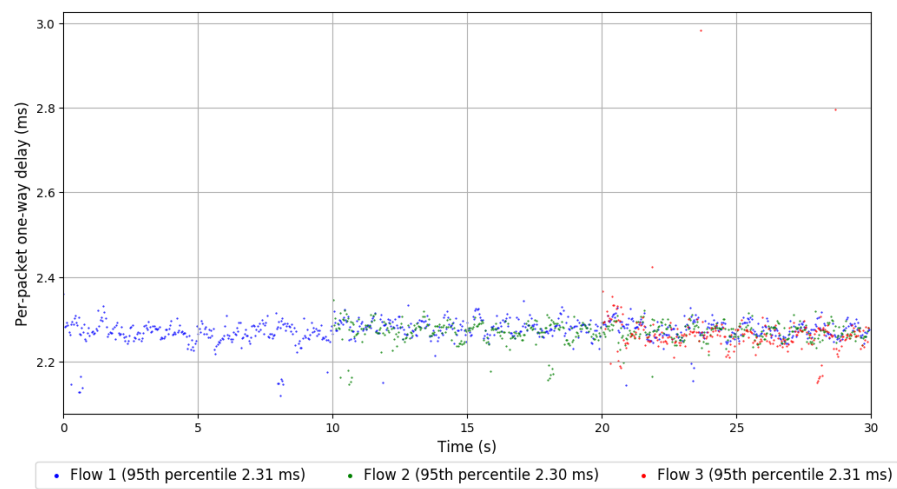
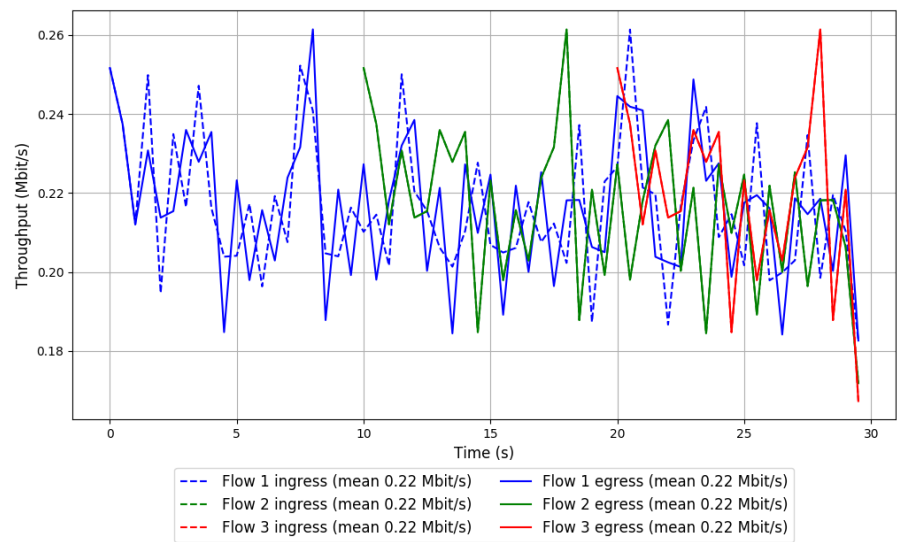
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.306 ms

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-01-02 12:40:39

End at: 2018-01-02 12:41:09

Local clock offset: -0.334 ms

Remote clock offset: 0.3 ms

Below is generated by plot.py at 2018-01-02 13:27:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 2.365 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.357 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.372 ms

Loss rate: 0.00%

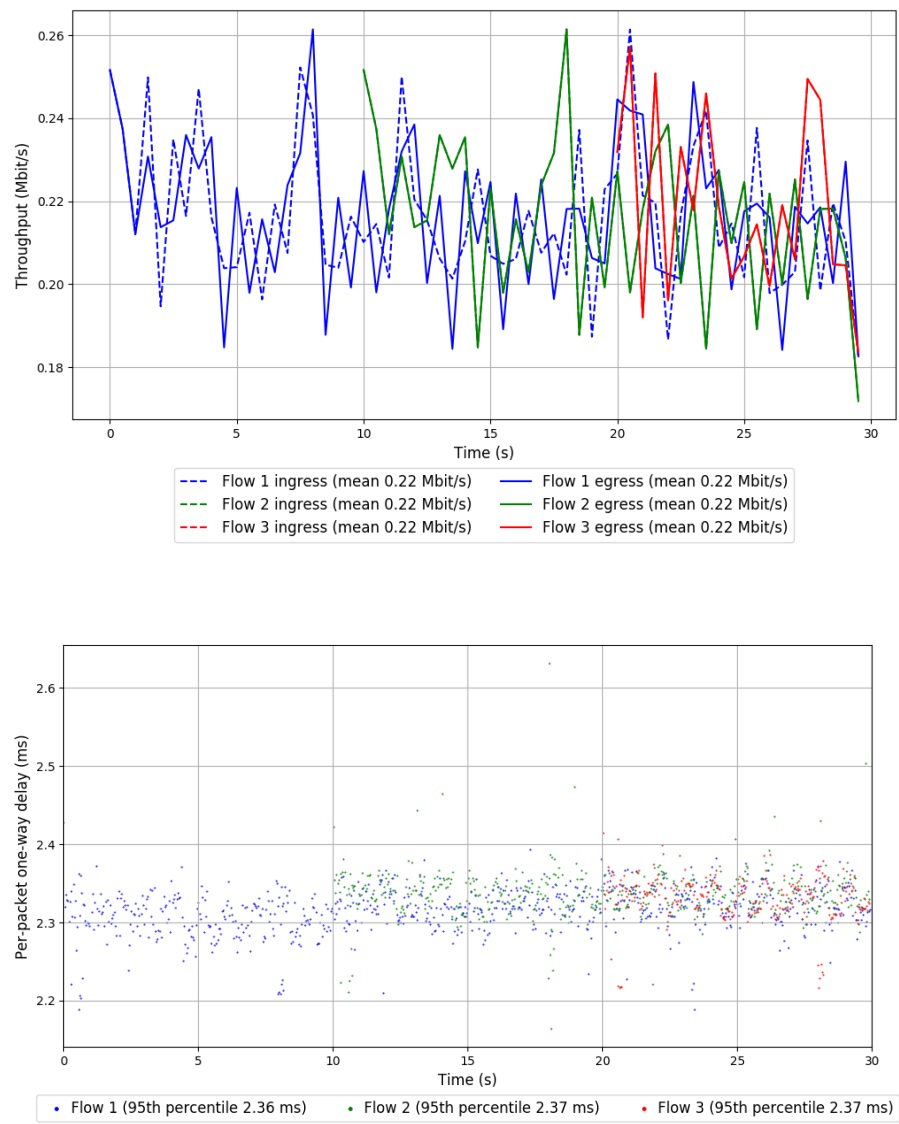
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.368 ms

Loss rate: 0.00%

Run 10: Report of SCRaM — Data Link



Run 1: Statistics of WebRTC media

Start at: 2018-01-02 10:14:50

End at: 2018-01-02 10:15:20

Local clock offset: -0.399 ms

Remote clock offset: 0.72 ms

Below is generated by plot.py at 2018-01-02 13:27:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.12 Mbit/s

95th percentile per-packet one-way delay: 6.184 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.32 Mbit/s

95th percentile per-packet one-way delay: 6.020 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.44 Mbit/s

95th percentile per-packet one-way delay: 6.338 ms

Loss rate: 0.00%

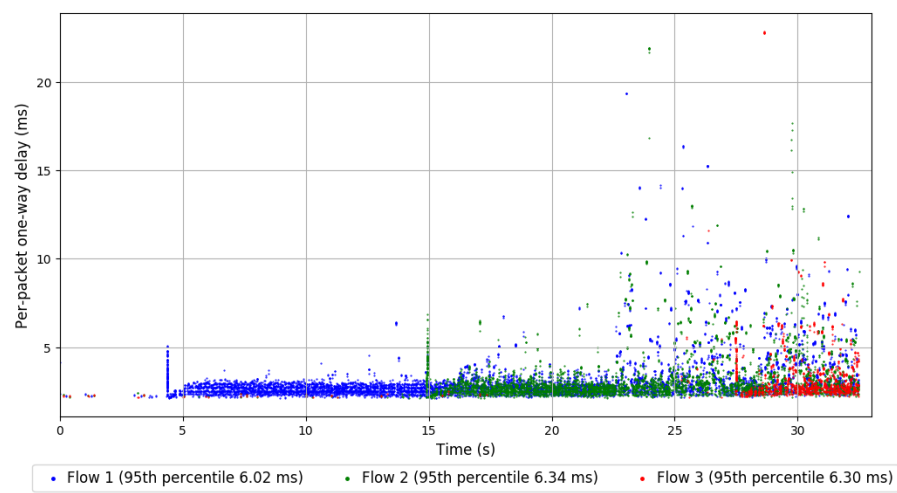
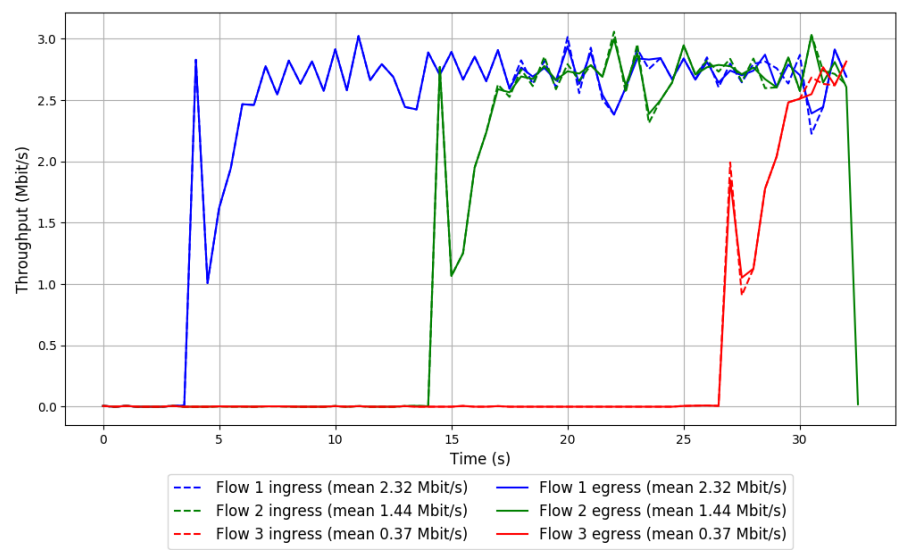
-- Flow 3:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 6.298 ms

Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-01-02 10:31:54

End at: 2018-01-02 10:32:24

Local clock offset: -0.485 ms

Remote clock offset: 0.607 ms

Below is generated by plot.py at 2018-01-02 13:27:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.13 Mbit/s

95th percentile per-packet one-way delay: 5.734 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.33 Mbit/s

95th percentile per-packet one-way delay: 5.953 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.44 Mbit/s

95th percentile per-packet one-way delay: 5.465 ms

Loss rate: 0.00%

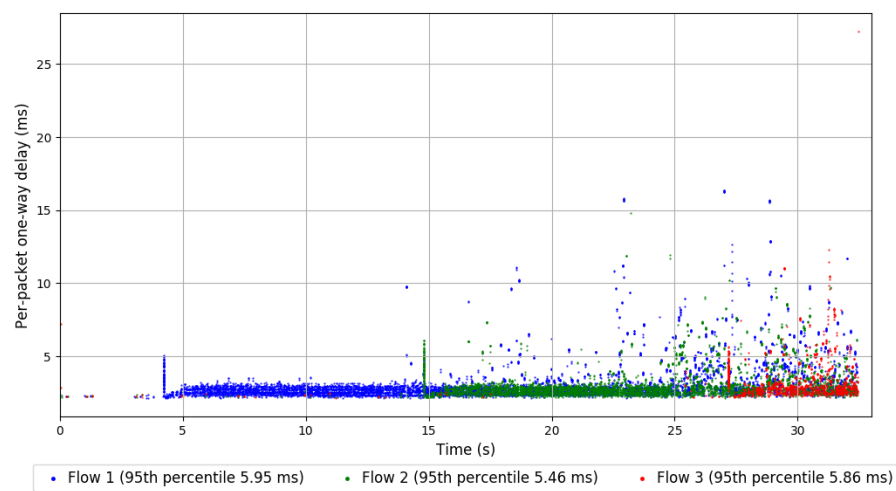
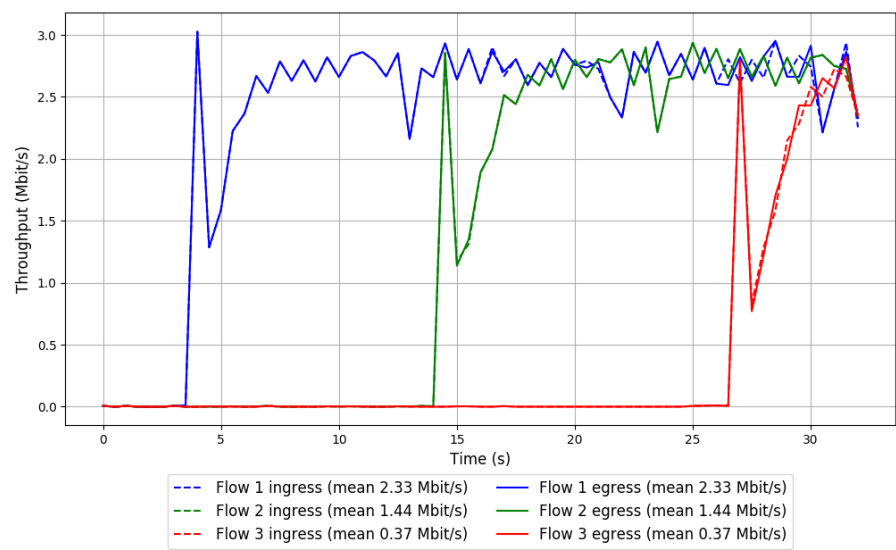
-- Flow 3:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 5.862 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-01-02 10:48:58

End at: 2018-01-02 10:49:29

Local clock offset: -0.427 ms

Remote clock offset: 0.614 ms

Below is generated by plot.py at 2018-01-02 13:27:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.12 Mbit/s

95th percentile per-packet one-way delay: 5.670 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 2.33 Mbit/s

95th percentile per-packet one-way delay: 5.177 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.45 Mbit/s

95th percentile per-packet one-way delay: 6.021 ms

Loss rate: 0.02%

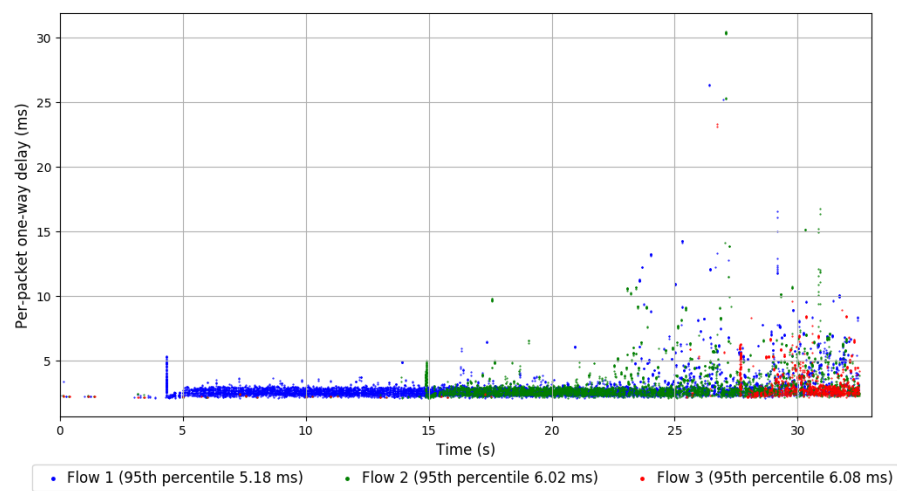
-- Flow 3:

Average throughput: 0.35 Mbit/s

95th percentile per-packet one-way delay: 6.076 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-01-02 11:06:03

End at: 2018-01-02 11:06:33

Local clock offset: -0.51 ms

Remote clock offset: 0.602 ms

Below is generated by plot.py at 2018-01-02 13:27:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.09 Mbit/s

95th percentile per-packet one-way delay: 5.757 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.32 Mbit/s

95th percentile per-packet one-way delay: 5.796 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.43 Mbit/s

95th percentile per-packet one-way delay: 5.144 ms

Loss rate: 0.00%

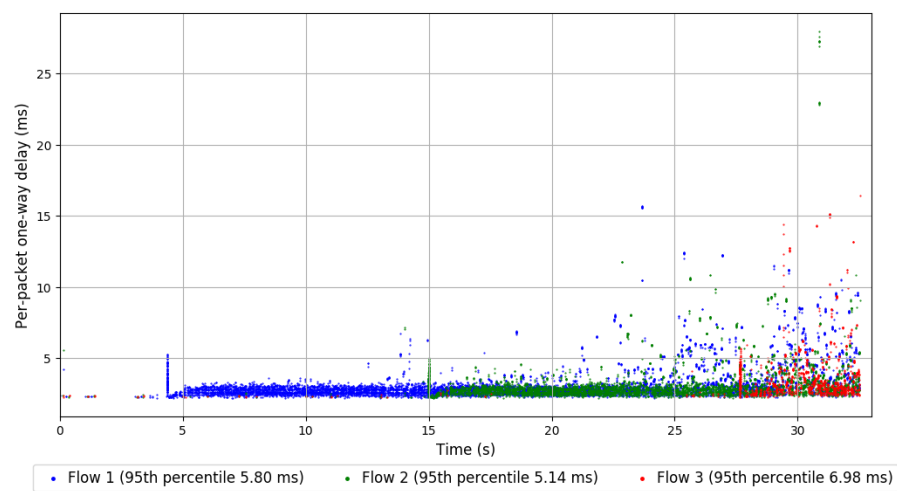
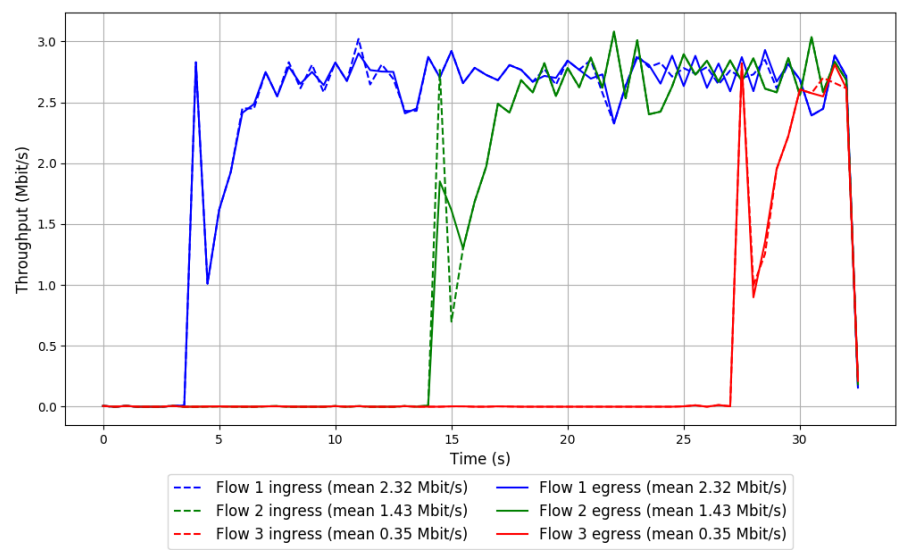
-- Flow 3:

Average throughput: 0.35 Mbit/s

95th percentile per-packet one-way delay: 6.979 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-01-02 11:23:08

End at: 2018-01-02 11:23:38

Local clock offset: -0.44 ms

Remote clock offset: 0.495 ms

Below is generated by plot.py at 2018-01-02 13:27:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.08 Mbit/s

95th percentile per-packet one-way delay: 6.164 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.30 Mbit/s

95th percentile per-packet one-way delay: 5.672 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.43 Mbit/s

95th percentile per-packet one-way delay: 6.646 ms

Loss rate: 0.00%

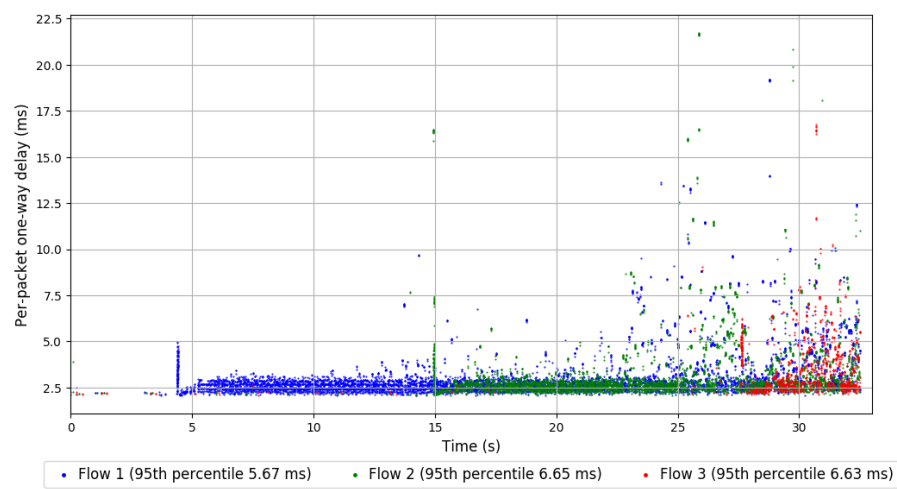
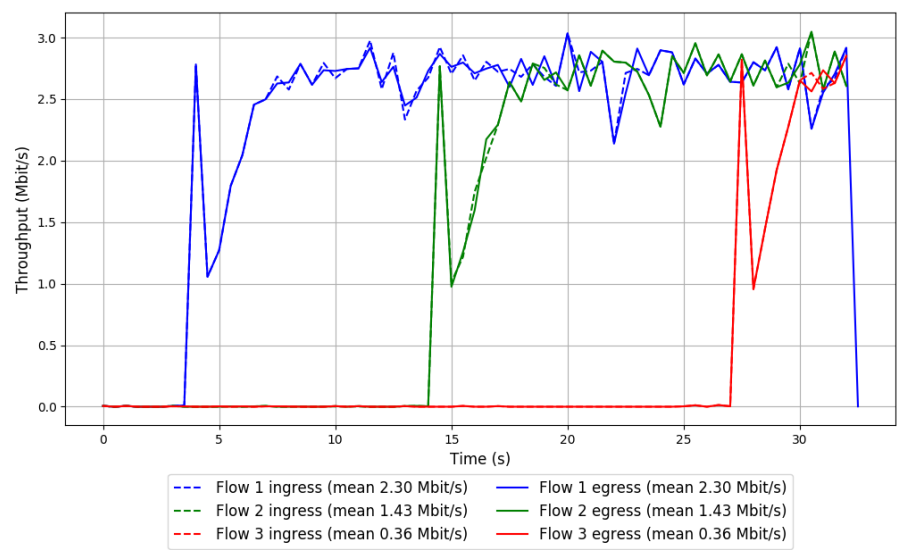
-- Flow 3:

Average throughput: 0.36 Mbit/s

95th percentile per-packet one-way delay: 6.630 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-01-02 11:40:13

End at: 2018-01-02 11:40:43

Local clock offset: -0.397 ms

Remote clock offset: 0.537 ms

Below is generated by plot.py at 2018-01-02 13:27:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.12 Mbit/s

95th percentile per-packet one-way delay: 5.626 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.34 Mbit/s

95th percentile per-packet one-way delay: 5.162 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.45 Mbit/s

95th percentile per-packet one-way delay: 5.695 ms

Loss rate: 0.00%

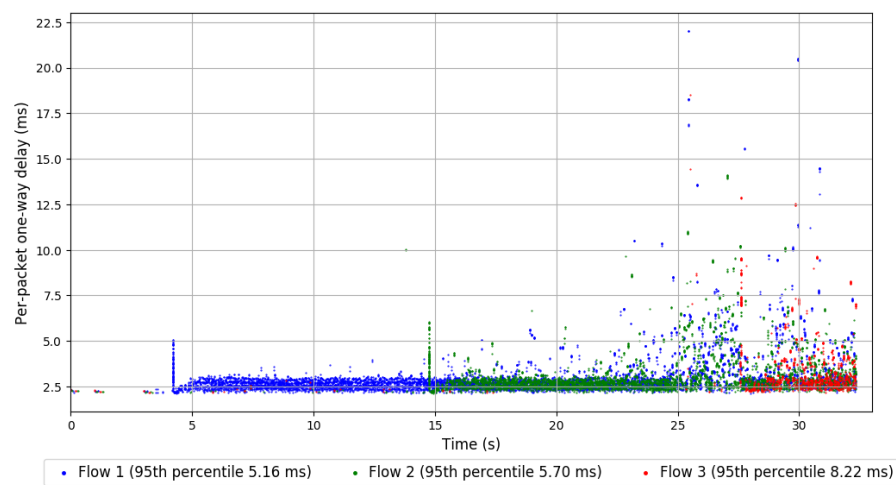
-- Flow 3:

Average throughput: 0.33 Mbit/s

95th percentile per-packet one-way delay: 8.223 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link

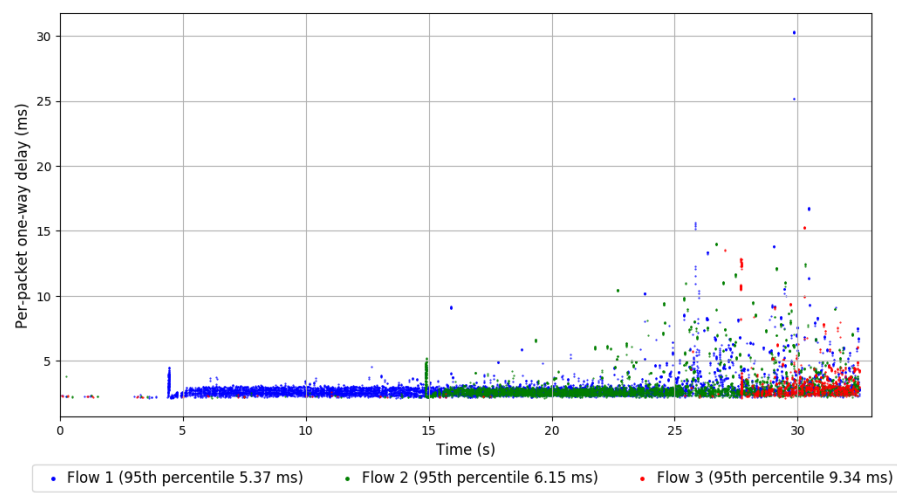


Run 7: Statistics of WebRTC media

Start at: 2018-01-02 11:57:18
End at: 2018-01-02 11:57:48
Local clock offset: -0.357 ms
Remote clock offset: 0.486 ms

Below is generated by plot.py at 2018-01-02 13:27:42
Datalink statistics
-- Total of 3 flows:
Average throughput: 4.10 Mbit/s
95th percentile per-packet one-way delay: 5.855 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.32 Mbit/s
95th percentile per-packet one-way delay: 5.374 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.46 Mbit/s
95th percentile per-packet one-way delay: 6.151 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.34 Mbit/s
95th percentile per-packet one-way delay: 9.337 ms
Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-01-02 12:14:27

End at: 2018-01-02 12:14:57

Local clock offset: -0.346 ms

Remote clock offset: 0.444 ms

Below is generated by plot.py at 2018-01-02 13:27:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.09 Mbit/s

95th percentile per-packet one-way delay: 5.987 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 2.30 Mbit/s

95th percentile per-packet one-way delay: 5.541 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.45 Mbit/s

95th percentile per-packet one-way delay: 6.128 ms

Loss rate: 0.00%

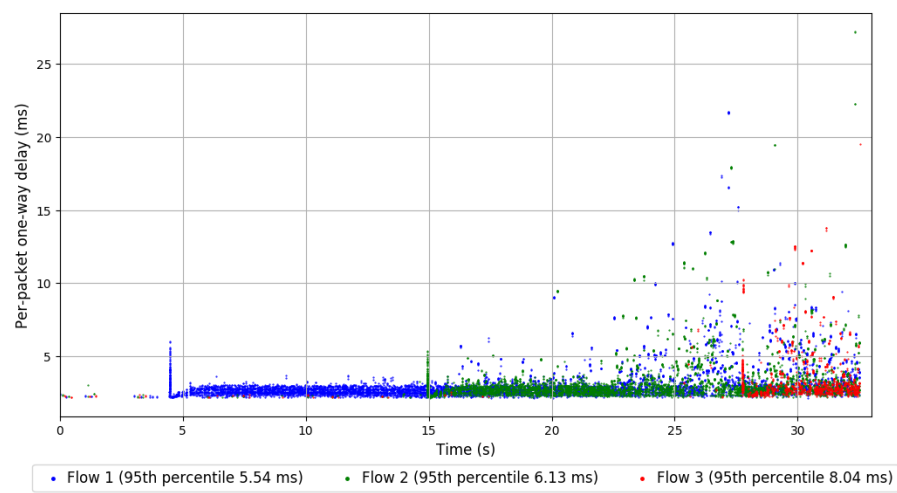
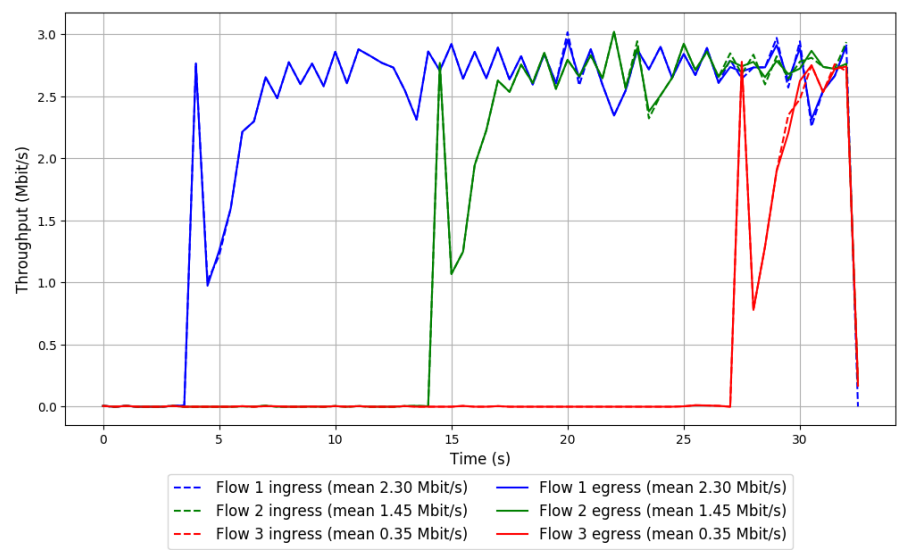
-- Flow 3:

Average throughput: 0.35 Mbit/s

95th percentile per-packet one-way delay: 8.037 ms

Loss rate: 0.17%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-01-02 12:31:31

End at: 2018-01-02 12:32:01

Local clock offset: -0.387 ms

Remote clock offset: 0.359 ms

Below is generated by plot.py at 2018-01-02 13:27:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.10 Mbit/s

95th percentile per-packet one-way delay: 5.791 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 2.32 Mbit/s

95th percentile per-packet one-way delay: 5.620 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.45 Mbit/s

95th percentile per-packet one-way delay: 5.438 ms

Loss rate: 0.00%

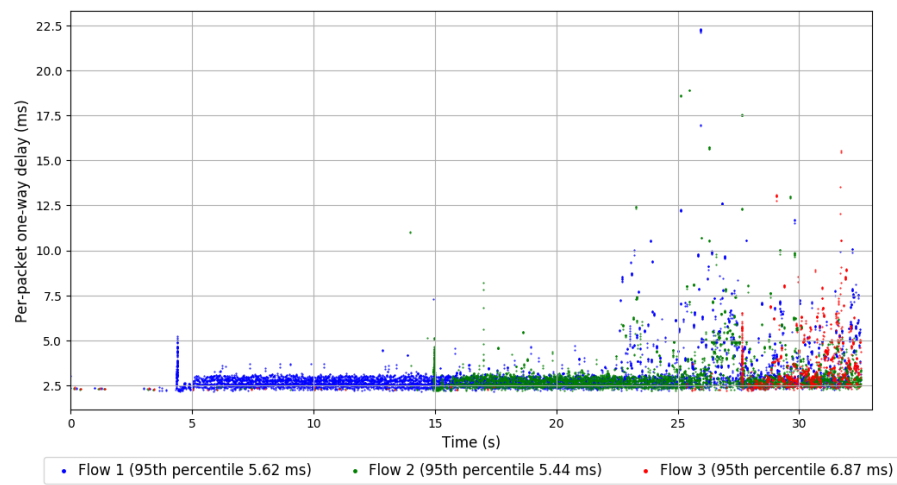
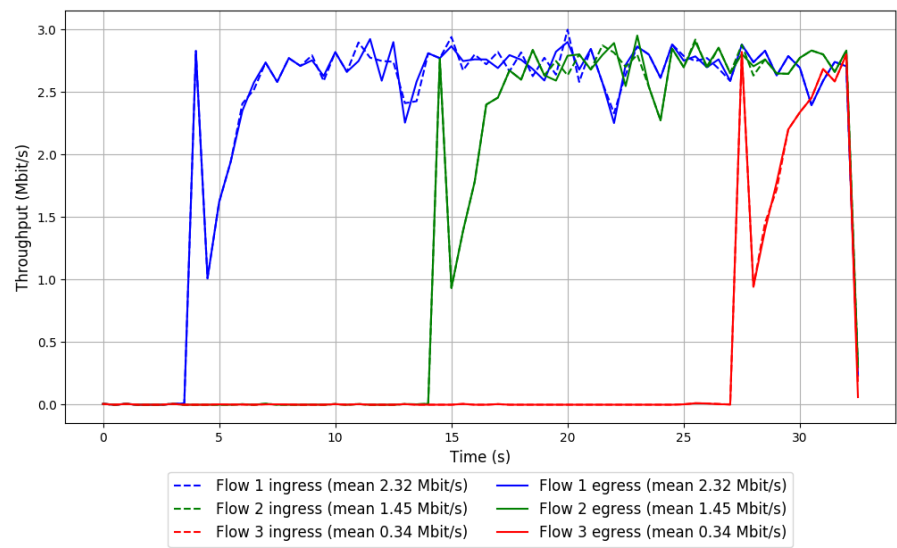
-- Flow 3:

Average throughput: 0.34 Mbit/s

95th percentile per-packet one-way delay: 6.874 ms

Loss rate: 0.44%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-01-02 12:48:39

End at: 2018-01-02 12:49:10

Local clock offset: -0.293 ms

Remote clock offset: 0.248 ms

Below is generated by plot.py at 2018-01-02 13:27:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.11 Mbit/s

95th percentile per-packet one-way delay: 5.899 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 2.33 Mbit/s

95th percentile per-packet one-way delay: 5.370 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 1.43 Mbit/s

95th percentile per-packet one-way delay: 5.974 ms

Loss rate: 0.00%

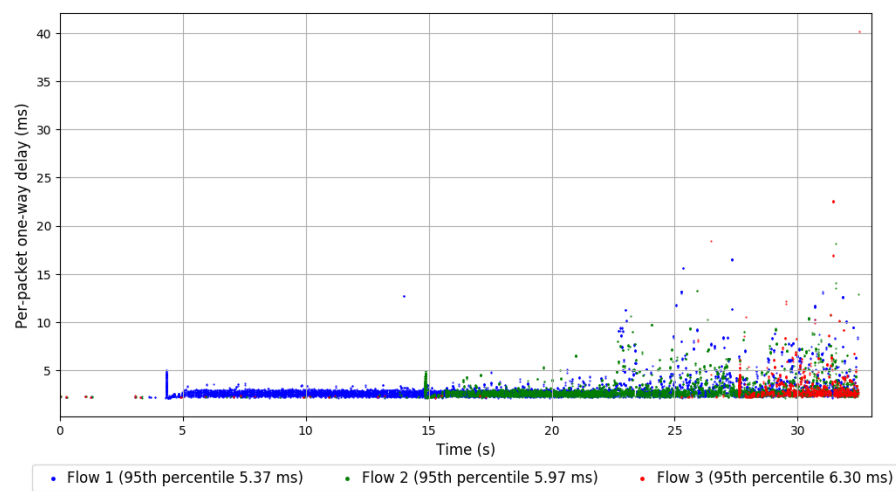
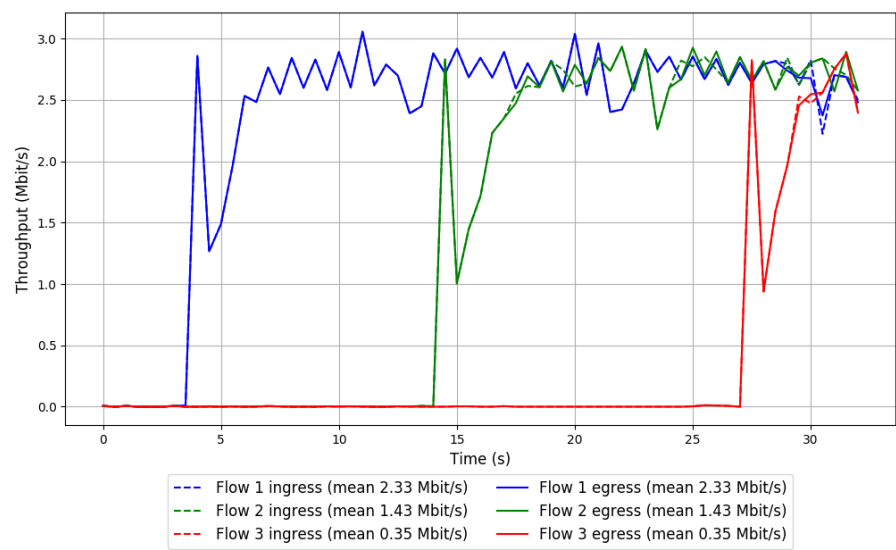
-- Flow 3:

Average throughput: 0.35 Mbit/s

95th percentile per-packet one-way delay: 6.304 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

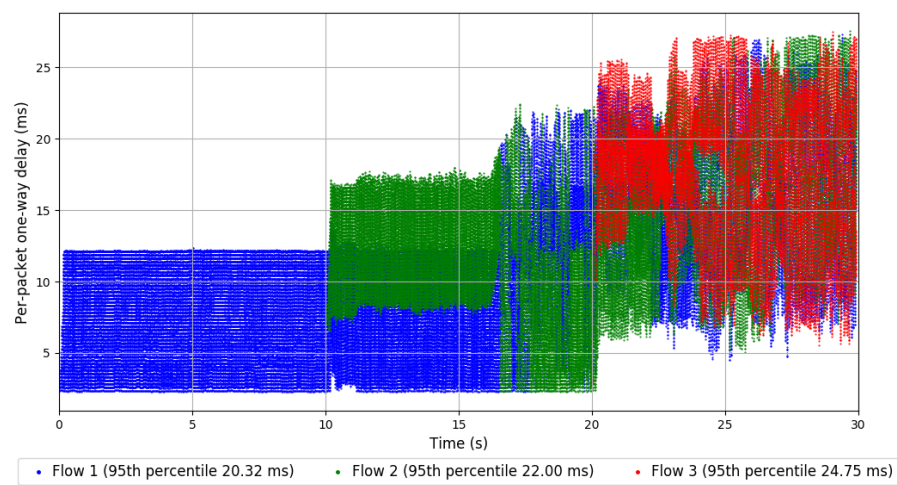
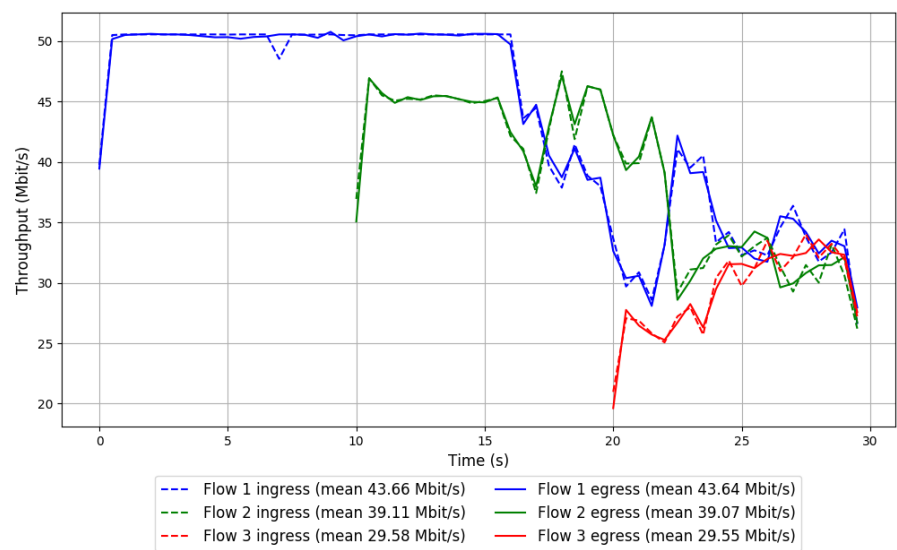


Run 1: Statistics of Sprout

Start at: 2018-01-02 10:15:54
End at: 2018-01-02 10:16:24
Local clock offset: -0.405 ms
Remote clock offset: 0.717 ms

Below is generated by plot.py at 2018-01-02 13:27:42
Datalink statistics
-- Total of 3 flows:
Average throughput: 79.40 Mbit/s
95th percentile per-packet one-way delay: 22.190 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 43.64 Mbit/s
95th percentile per-packet one-way delay: 20.324 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 39.07 Mbit/s
95th percentile per-packet one-way delay: 21.997 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 29.55 Mbit/s
95th percentile per-packet one-way delay: 24.746 ms
Loss rate: 0.00%

Run 1: Report of Sprout — Data Link

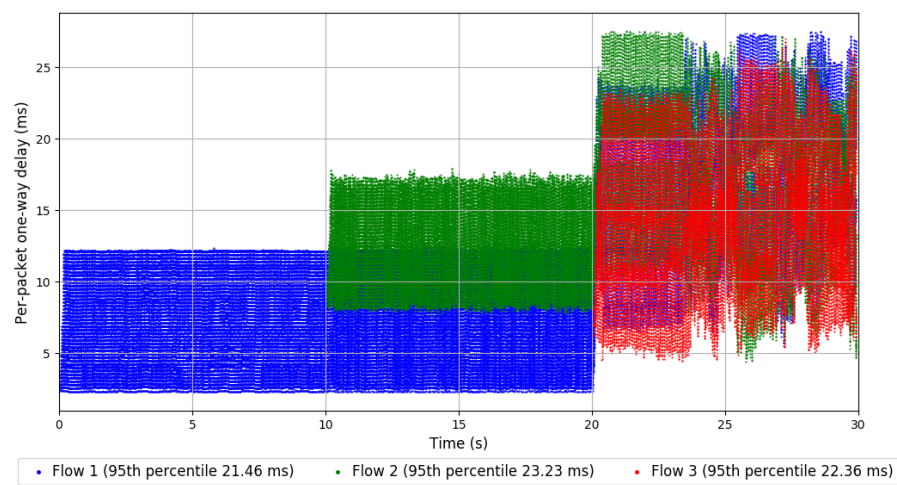
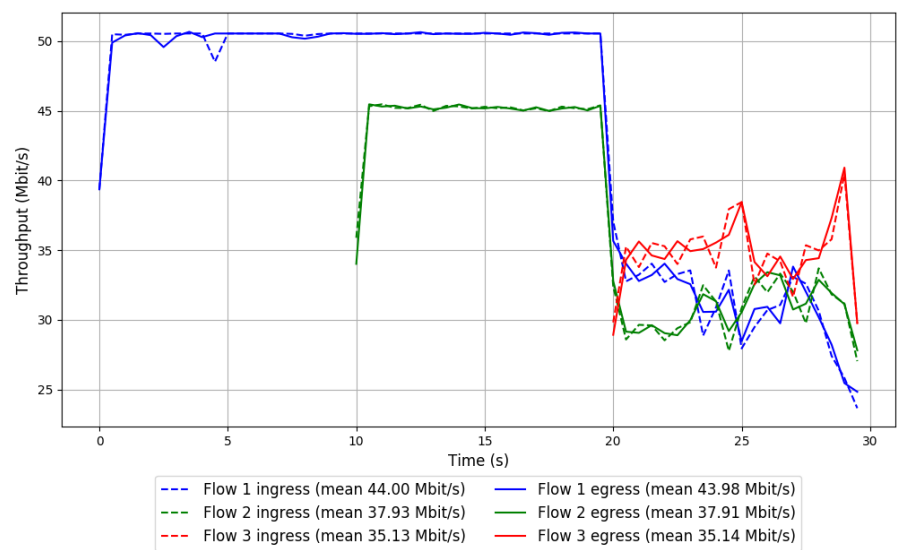


Run 2: Statistics of Sprout

Start at: 2018-01-02 10:32:58
End at: 2018-01-02 10:33:28
Local clock offset: -0.415 ms
Remote clock offset: 0.671 ms

```
# Below is generated by plot.py at 2018-01-02 13:27:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 80.80 Mbit/s
95th percentile per-packet one-way delay: 22.284 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 43.98 Mbit/s
95th percentile per-packet one-way delay: 21.461 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 37.91 Mbit/s
95th percentile per-packet one-way delay: 23.229 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 35.14 Mbit/s
95th percentile per-packet one-way delay: 22.360 ms
Loss rate: 0.00%
```


Run 2: Report of Sprout — Data Link

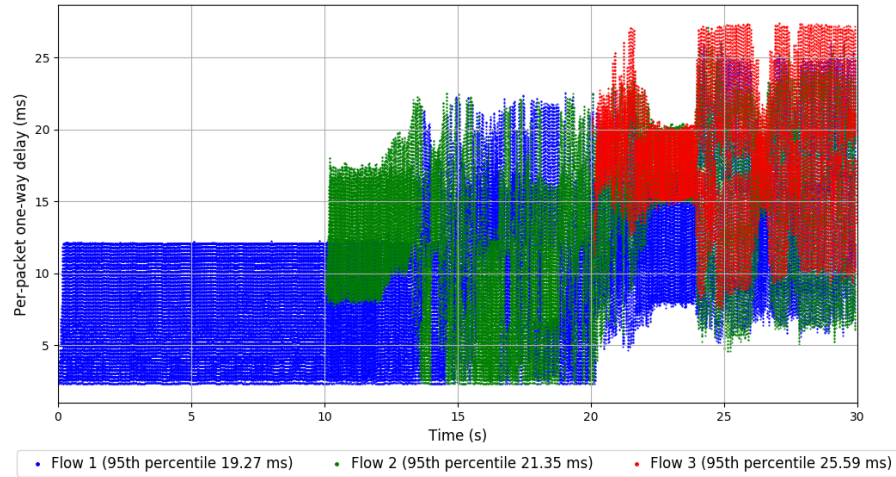
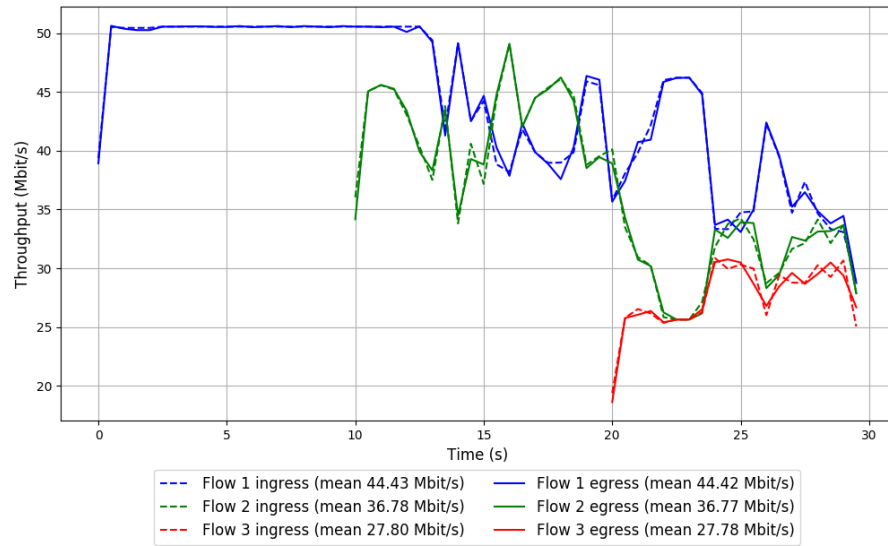


Run 3: Statistics of Sprout

Start at: 2018-01-02 10:50:03
End at: 2018-01-02 10:50:33
Local clock offset: -0.411 ms
Remote clock offset: 0.658 ms

```
# Below is generated by plot.py at 2018-01-02 13:27:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 78.04 Mbit/s
95th percentile per-packet one-way delay: 21.614 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 44.42 Mbit/s
95th percentile per-packet one-way delay: 19.275 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 36.77 Mbit/s
95th percentile per-packet one-way delay: 21.350 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 27.78 Mbit/s
95th percentile per-packet one-way delay: 25.592 ms
Loss rate: 0.00%
```

Run 3: Report of Sprout — Data Link

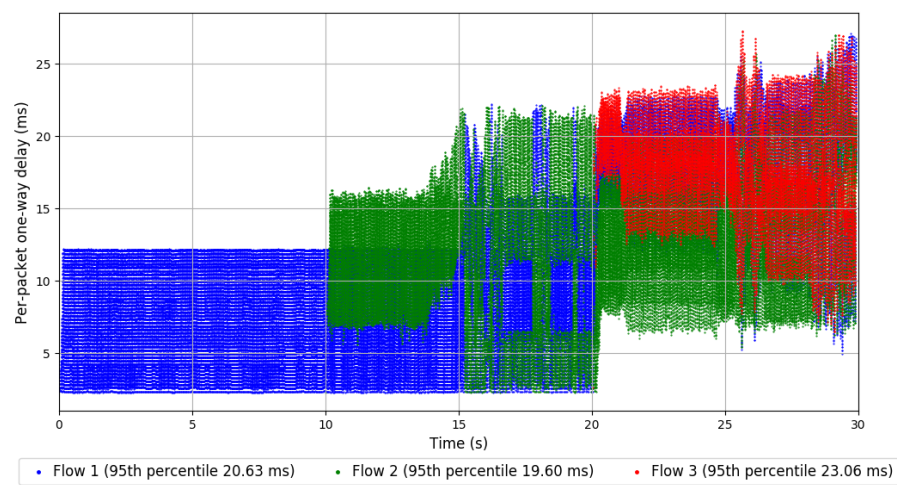
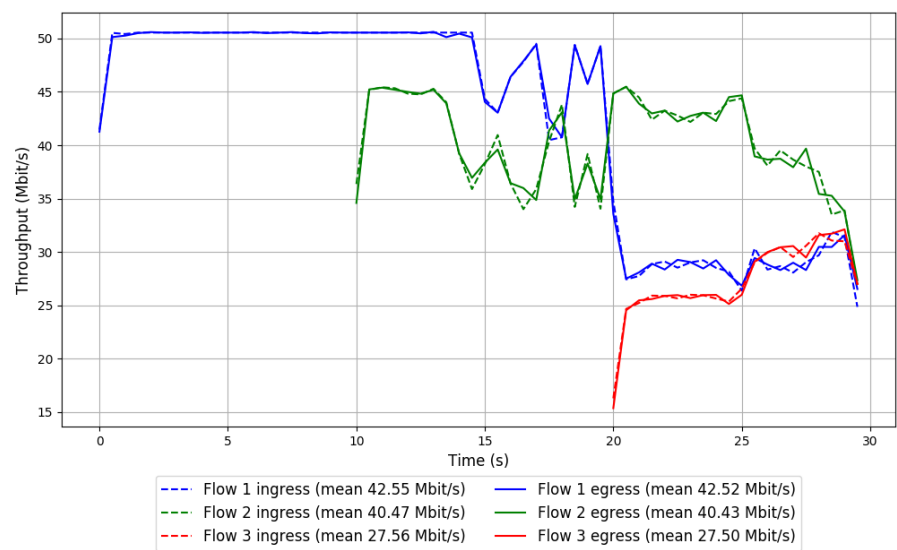


Run 4: Statistics of Sprout

Start at: 2018-01-02 11:07:07
End at: 2018-01-02 11:07:37
Local clock offset: -0.44 ms
Remote clock offset: 0.61 ms

```
# Below is generated by plot.py at 2018-01-02 13:27:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 78.51 Mbit/s
95th percentile per-packet one-way delay: 20.974 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 42.52 Mbit/s
95th percentile per-packet one-way delay: 20.628 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 40.43 Mbit/s
95th percentile per-packet one-way delay: 19.597 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 27.50 Mbit/s
95th percentile per-packet one-way delay: 23.063 ms
Loss rate: 0.00%
```

Run 4: Report of Sprout — Data Link

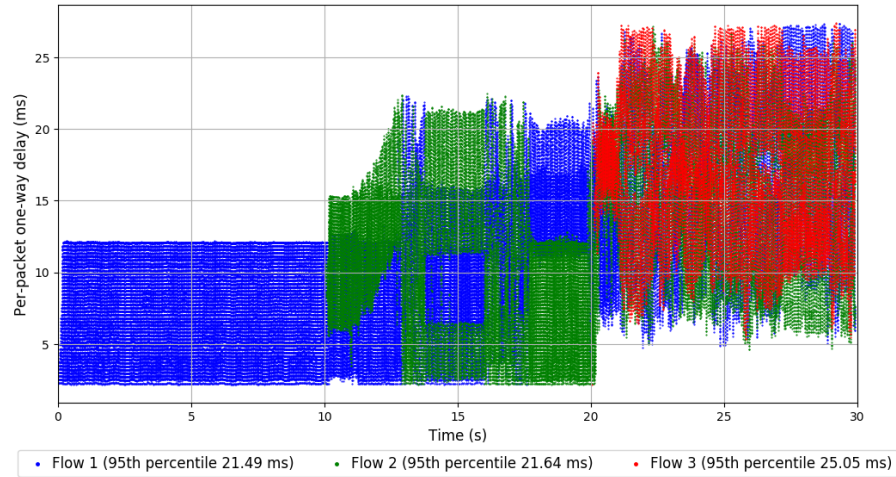
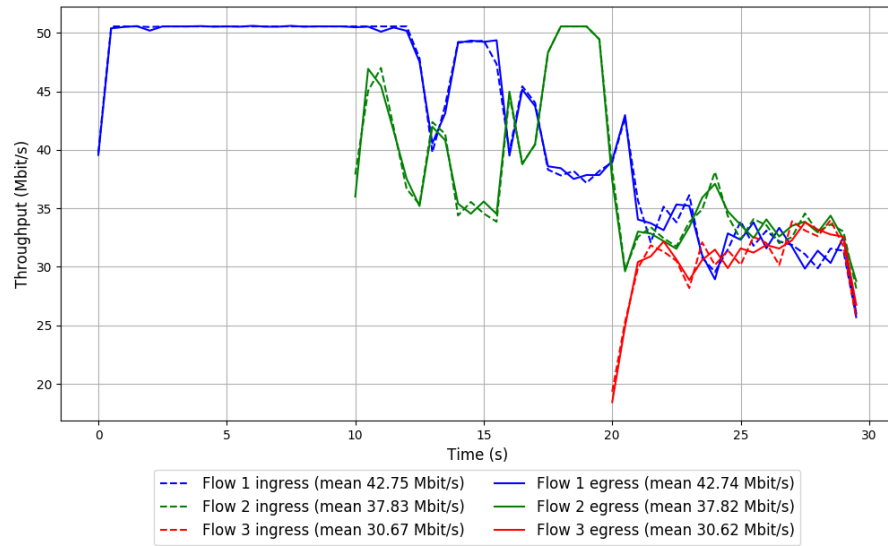


Run 5: Statistics of Sprout

Start at: 2018-01-02 11:24:12
End at: 2018-01-02 11:24:42
Local clock offset: -0.443 ms
Remote clock offset: 0.49 ms

Below is generated by plot.py at 2018-01-02 13:27:46
Datalink statistics
-- Total of 3 flows:
Average throughput: 78.02 Mbit/s
95th percentile per-packet one-way delay: 22.649 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 42.74 Mbit/s
95th percentile per-packet one-way delay: 21.489 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 37.82 Mbit/s
95th percentile per-packet one-way delay: 21.638 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 30.62 Mbit/s
95th percentile per-packet one-way delay: 25.052 ms
Loss rate: 0.00%

Run 5: Report of Sprout — Data Link

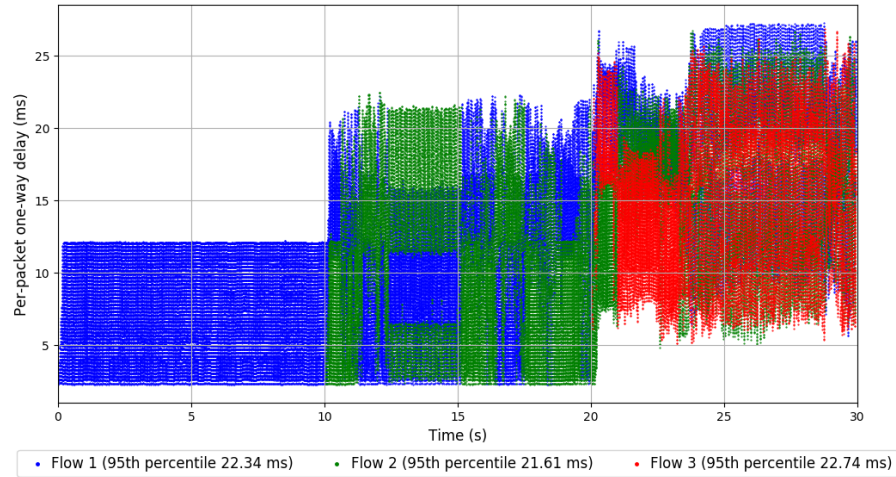
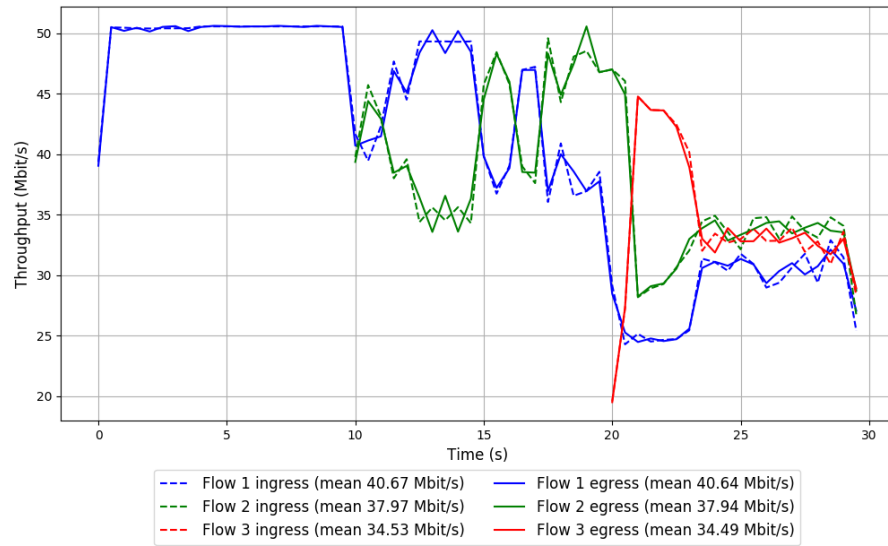


Run 6: Statistics of Sprout

Start at: 2018-01-02 11:41:18
End at: 2018-01-02 11:41:48
Local clock offset: -0.397 ms
Remote clock offset: 0.537 ms

Below is generated by plot.py at 2018-01-02 13:27:46
Datalink statistics
-- Total of 3 flows:
Average throughput: 77.30 Mbit/s
95th percentile per-packet one-way delay: 22.257 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 40.64 Mbit/s
95th percentile per-packet one-way delay: 22.345 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 37.94 Mbit/s
95th percentile per-packet one-way delay: 21.612 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 34.49 Mbit/s
95th percentile per-packet one-way delay: 22.743 ms
Loss rate: 0.00%

Run 6: Report of Sprout — Data Link

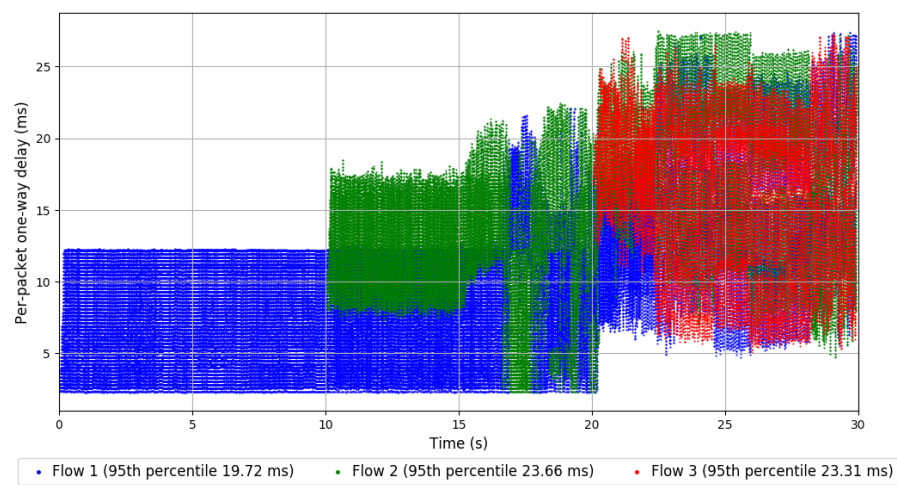
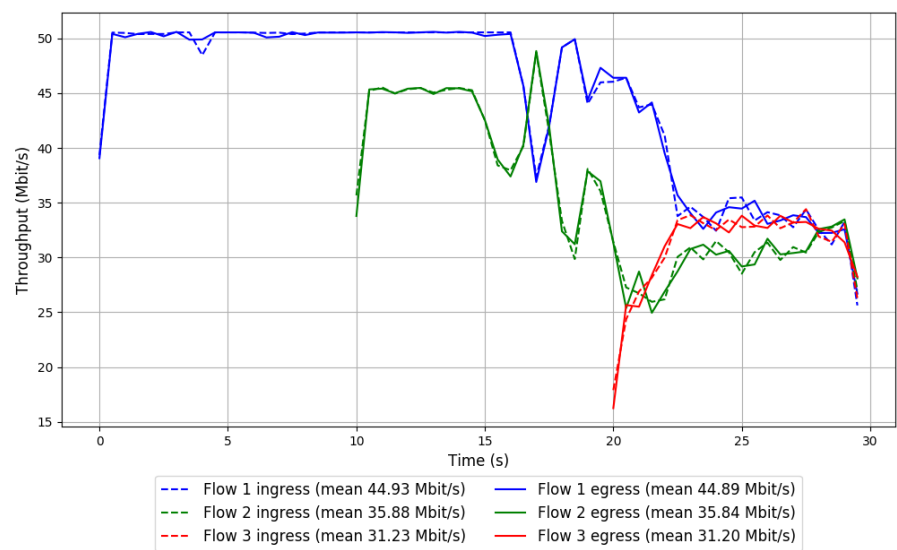


Run 7: Statistics of Sprout

Start at: 2018-01-02 11:58:22
End at: 2018-01-02 11:58:52
Local clock offset: -0.372 ms
Remote clock offset: 0.495 ms

Below is generated by plot.py at 2018-01-02 13:28:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 79.02 Mbit/s
95th percentile per-packet one-way delay: 22.379 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 44.89 Mbit/s
95th percentile per-packet one-way delay: 19.722 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 35.84 Mbit/s
95th percentile per-packet one-way delay: 23.656 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 31.20 Mbit/s
95th percentile per-packet one-way delay: 23.311 ms
Loss rate: 0.00%

Run 7: Report of Sprout — Data Link

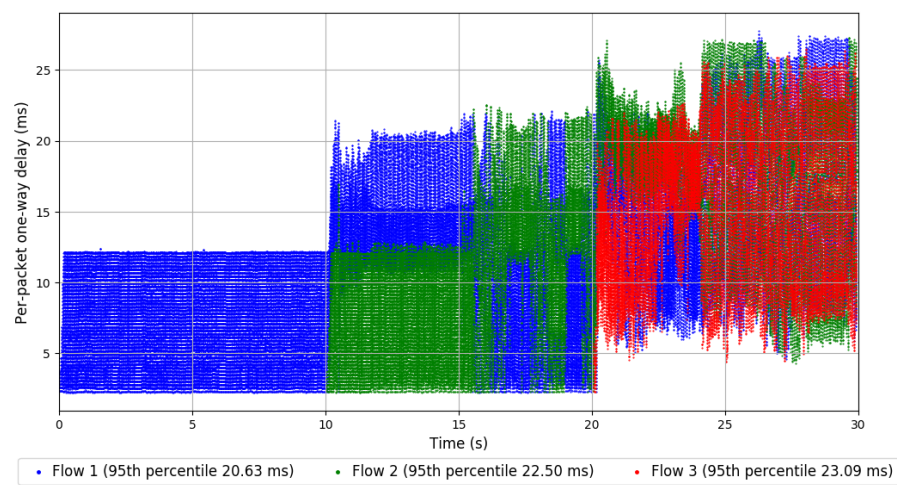
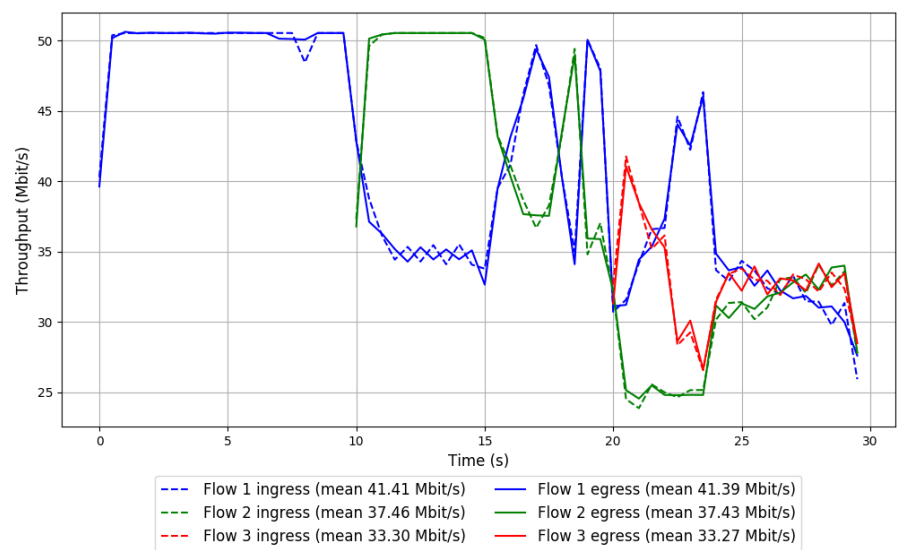


Run 8: Statistics of Sprout

Start at: 2018-01-02 12:15:31
End at: 2018-01-02 12:16:01
Local clock offset: -0.339 ms
Remote clock offset: 0.422 ms

```
# Below is generated by plot.py at 2018-01-02 13:28:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 77.26 Mbit/s
95th percentile per-packet one-way delay: 22.015 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 41.39 Mbit/s
95th percentile per-packet one-way delay: 20.630 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 37.43 Mbit/s
95th percentile per-packet one-way delay: 22.503 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 33.27 Mbit/s
95th percentile per-packet one-way delay: 23.091 ms
Loss rate: 0.00%
```

Run 8: Report of Sprout — Data Link

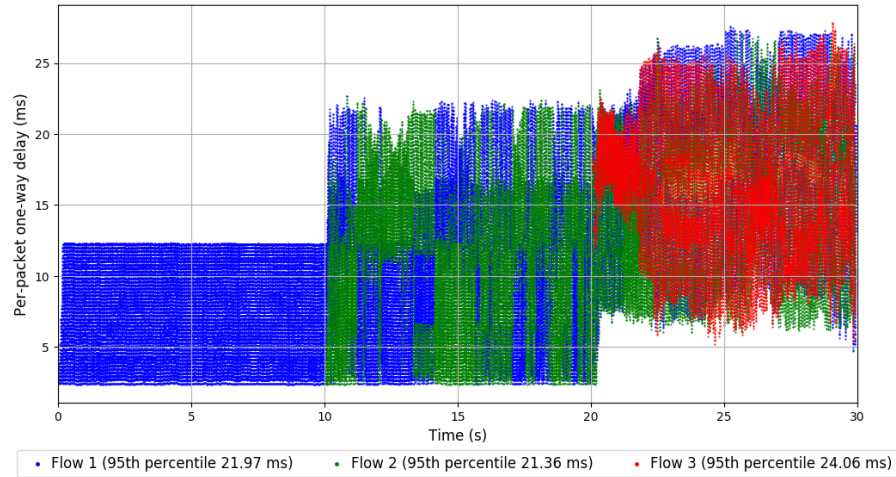
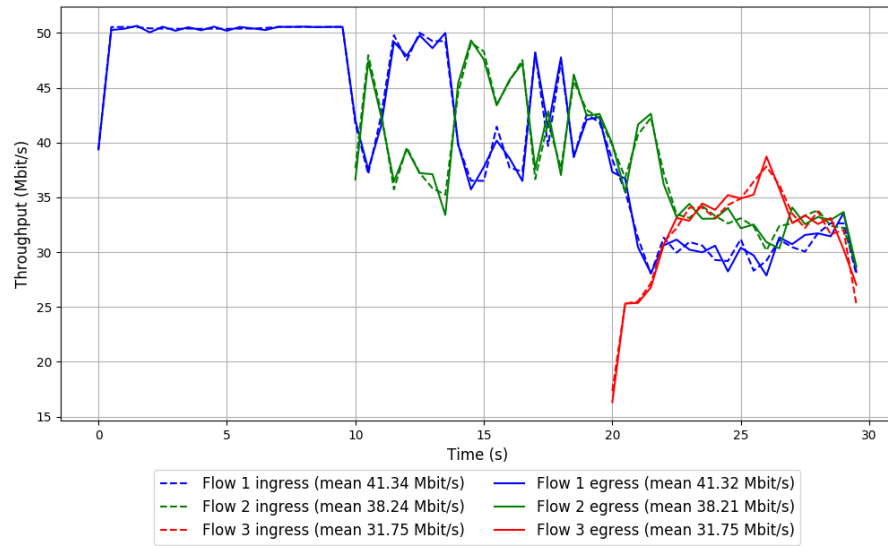


Run 9: Statistics of Sprout

Start at: 2018-01-02 12:32:36
End at: 2018-01-02 12:33:06
Local clock offset: -0.419 ms
Remote clock offset: 0.355 ms

```
# Below is generated by plot.py at 2018-01-02 13:28:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 77.23 Mbit/s
95th percentile per-packet one-way delay: 22.244 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 41.32 Mbit/s
95th percentile per-packet one-way delay: 21.972 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 38.21 Mbit/s
95th percentile per-packet one-way delay: 21.355 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 31.75 Mbit/s
95th percentile per-packet one-way delay: 24.062 ms
Loss rate: 0.00%
```

Run 9: Report of Sprout — Data Link

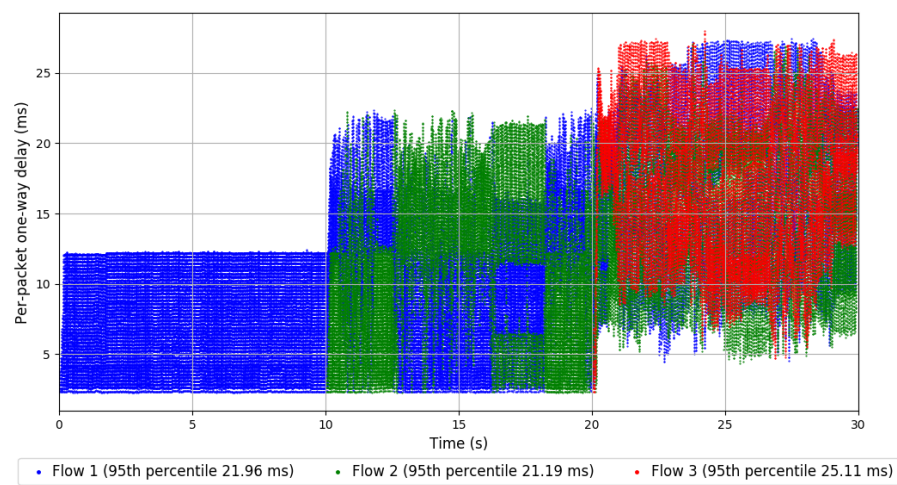
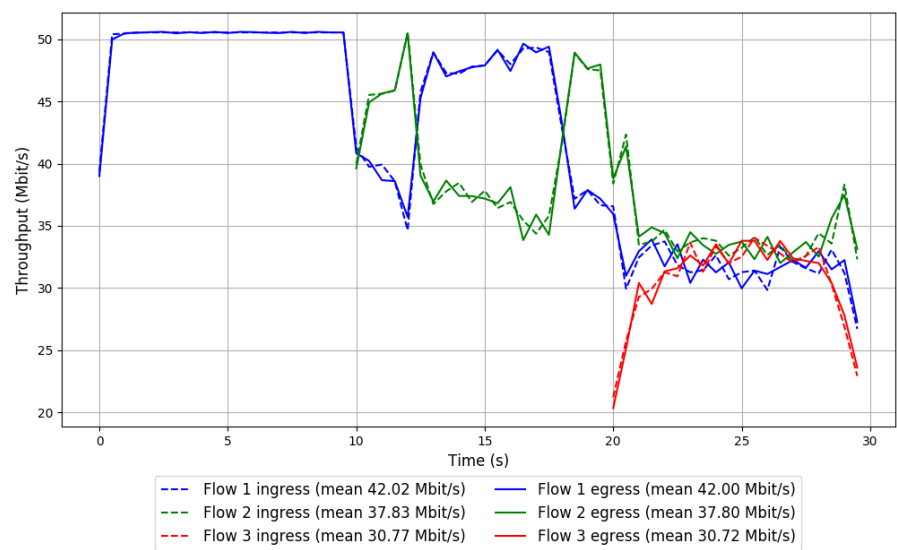


Run 10: Statistics of Sprout

Start at: 2018-01-02 12:49:44
End at: 2018-01-02 12:50:14
Local clock offset: -0.329 ms
Remote clock offset: 0.24 ms

Below is generated by plot.py at 2018-01-02 13:28:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 77.33 Mbit/s
95th percentile per-packet one-way delay: 22.737 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 42.00 Mbit/s
95th percentile per-packet one-way delay: 21.965 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 37.80 Mbit/s
95th percentile per-packet one-way delay: 21.187 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 30.72 Mbit/s
95th percentile per-packet one-way delay: 25.113 ms
Loss rate: 0.00%

Run 10: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

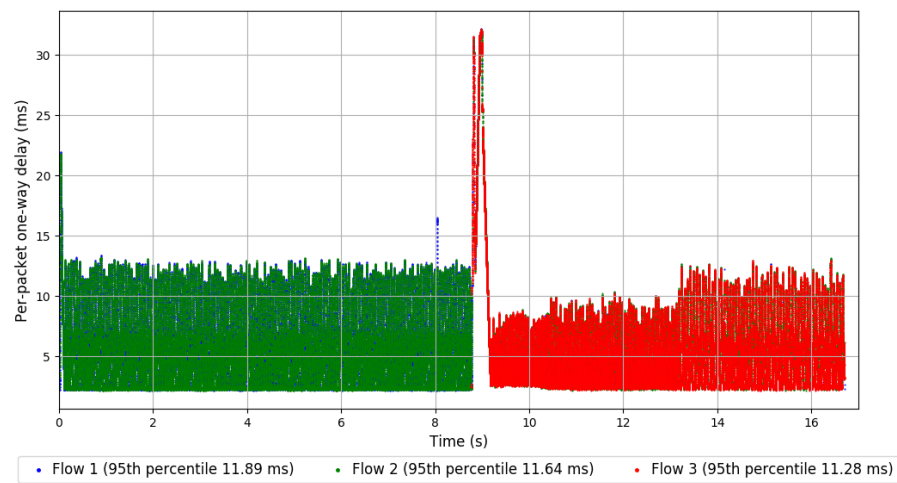
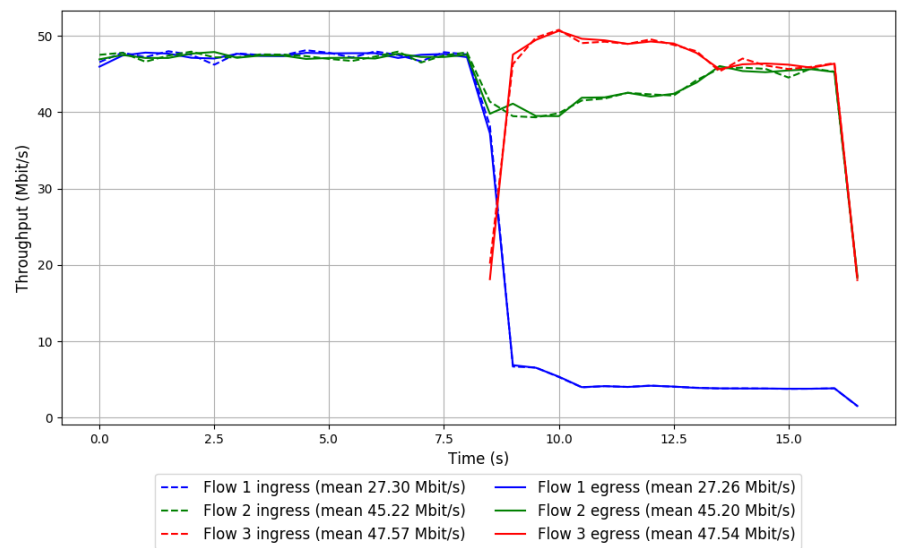
Start at: 2018-01-02 10:19:16

End at: 2018-01-02 10:19:46

Local clock offset: -0.38 ms

Remote clock offset: 0.646 ms

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



Run 2: Statistics of TaoVA-100x

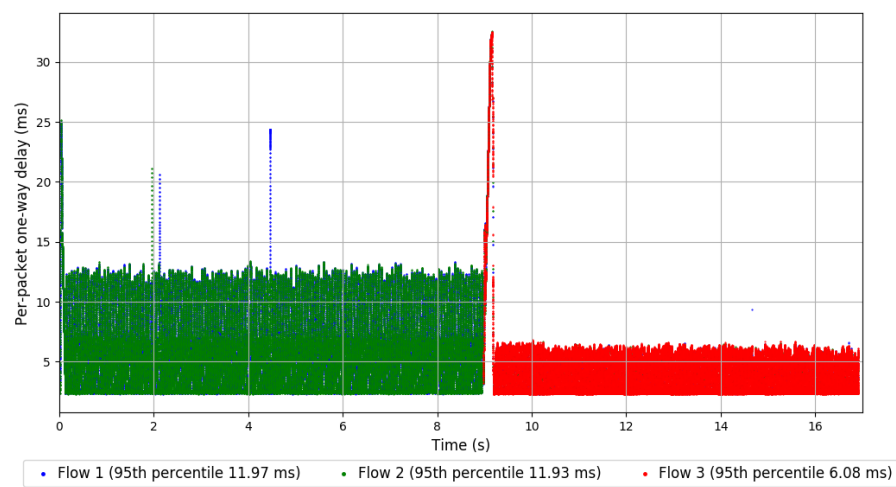
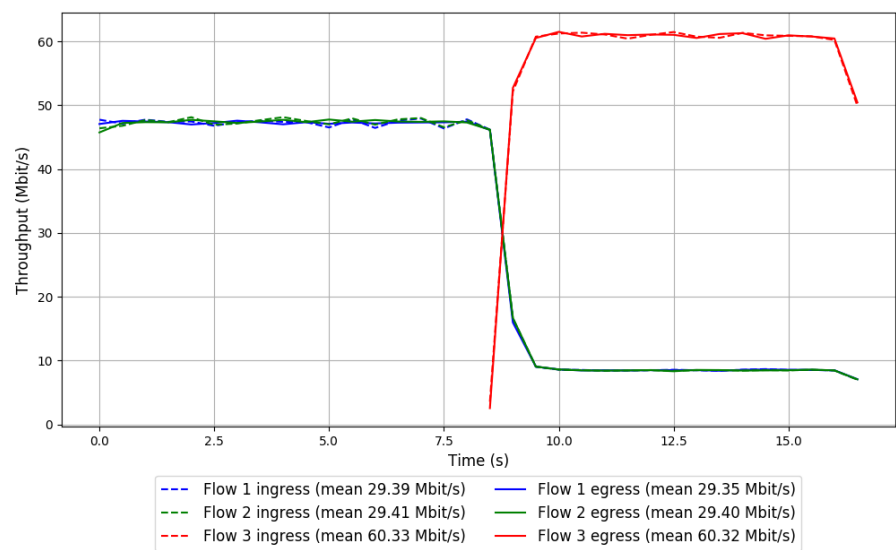
Start at: 2018-01-02 10:36:21

End at: 2018-01-02 10:36:51

Local clock offset: -0.467 ms

Remote clock offset: 0.648 ms

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



Run 3: Statistics of TaoVA-100x

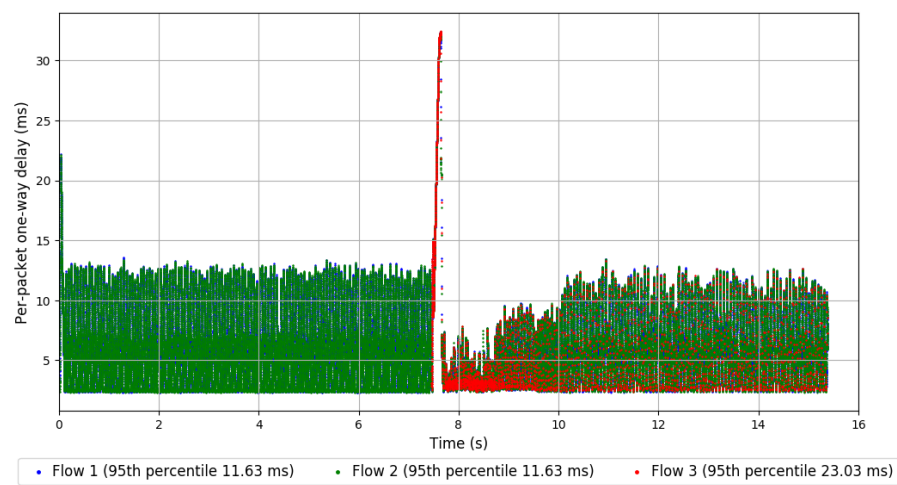
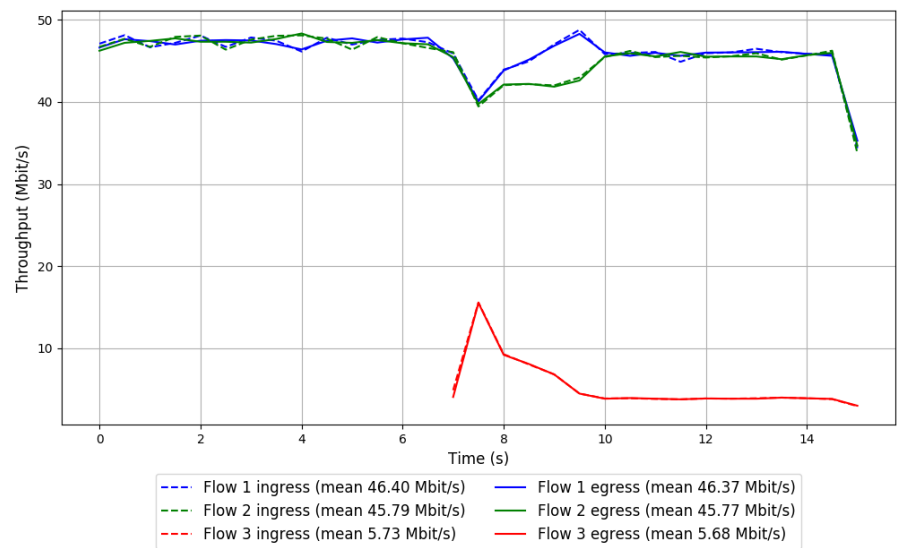
Start at: 2018-01-02 10:53:25

End at: 2018-01-02 10:53:55

Local clock offset: -0.508 ms

Remote clock offset: 0.611 ms

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



Run 4: Statistics of TaoVA-100x

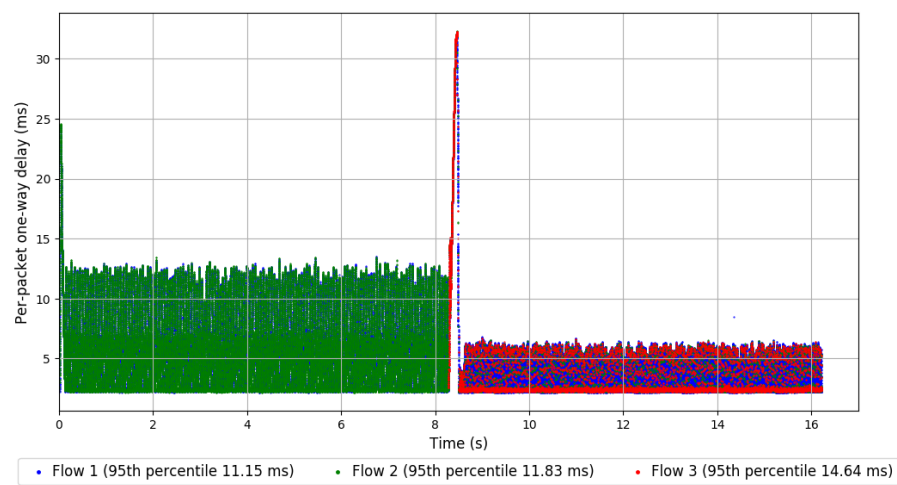
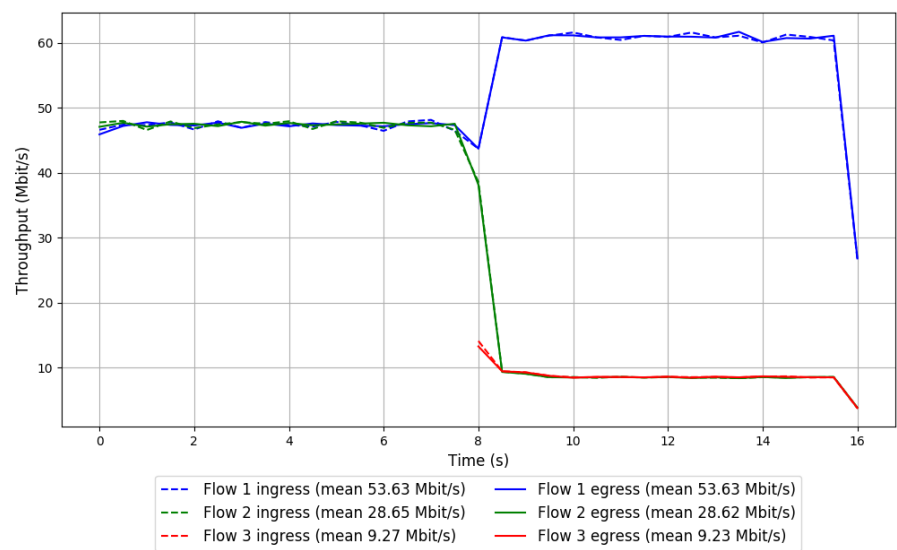
Start at: 2018-01-02 11:10:30

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

Local clock offset: -0.435 ms

Remote clock offset: 0.526 ms

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



Run 5: Statistics of TaoVA-100x

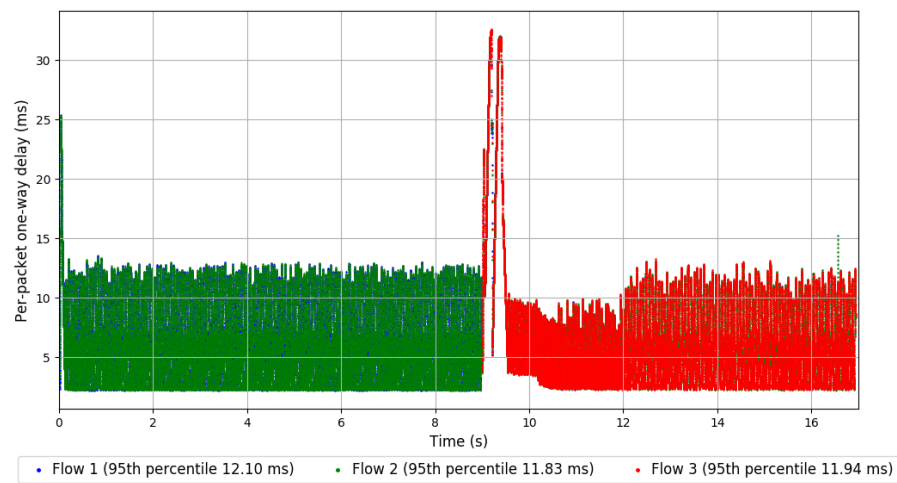
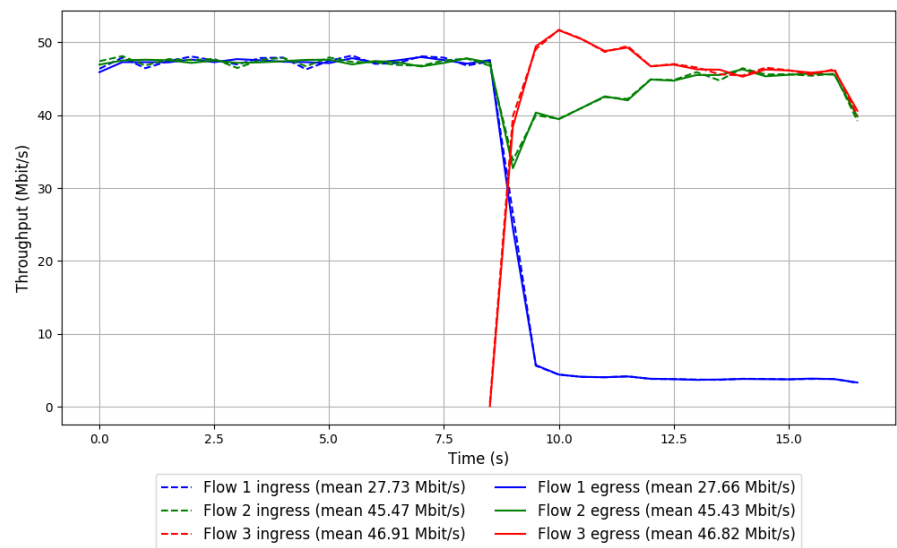
Start at: 2018-01-02 11:27:35

End at: 2018-01-02 11:28:05

Local clock offset: -0.473 ms

Remote clock offset: 0.494 ms

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



Run 6: Statistics of TaoVA-100x

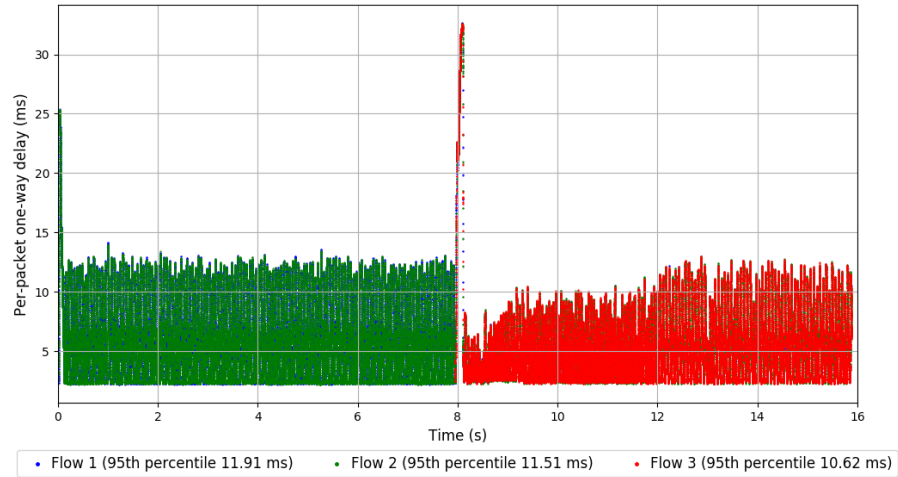
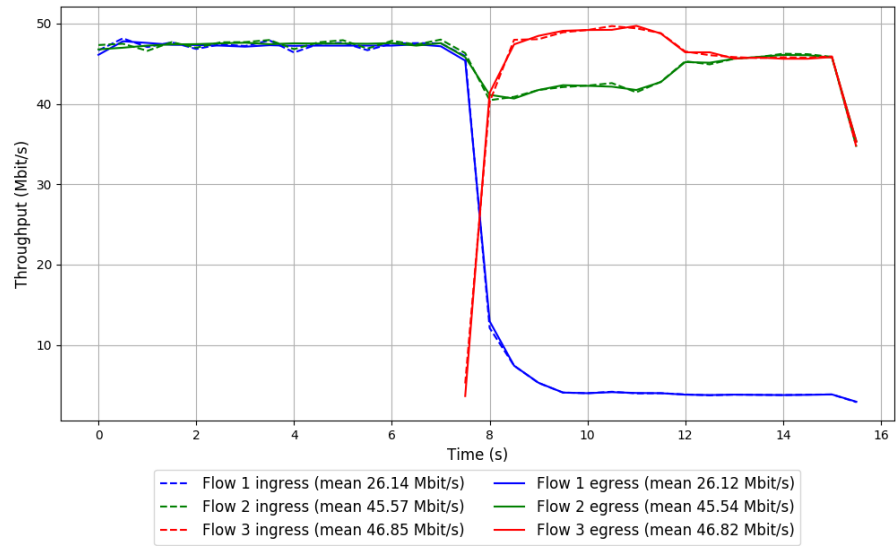
Start at: 2018-01-02 11:44:40

End at: 2018-01-02 11:45:10

Local clock offset: -0.4 ms

Remote clock offset: 0.468 ms

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



Run 7: Statistics of TaoVA-100x

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

End at: 2018-01-02 12:02:15

Local clock offset: -0.35 ms

Remote clock offset: 0.484 ms

Below is generated by plot.py at 2018-01-02 13:31:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.44 Mbit/s

95th percentile per-packet one-way delay: 11.126 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 51.76 Mbit/s

95th percentile per-packet one-way delay: 10.579 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 52.73 Mbit/s

95th percentile per-packet one-way delay: 11.390 ms

Loss rate: 0.02%

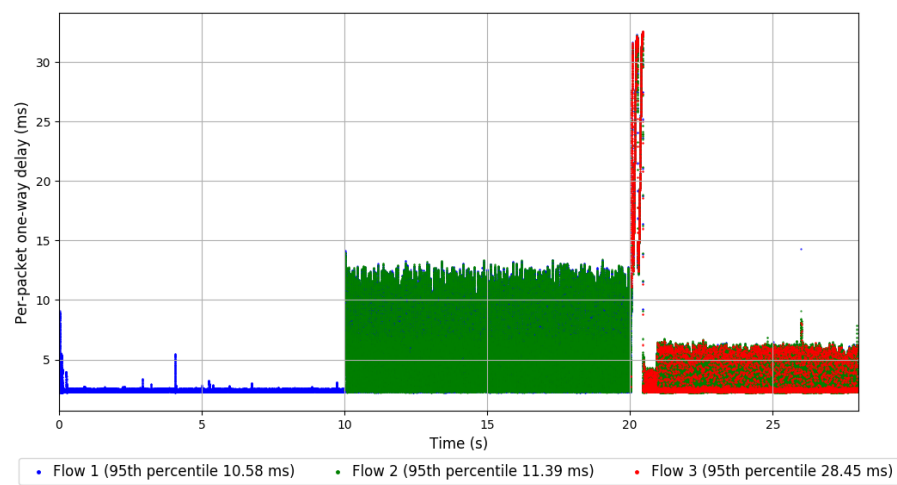
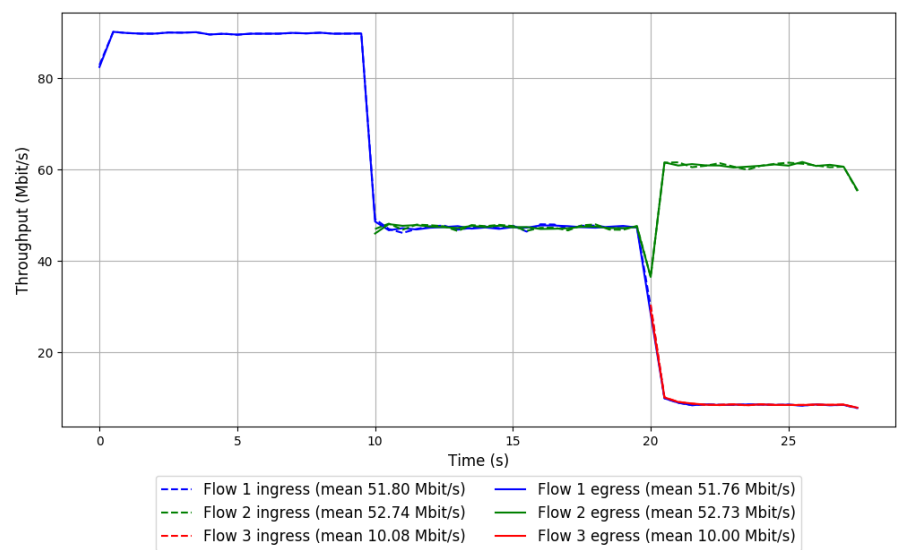
-- Flow 3:

Average throughput: 10.00 Mbit/s

95th percentile per-packet one-way delay: 28.452 ms

Loss rate: 0.78%

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



Run 8: Statistics of TaoVA-100x

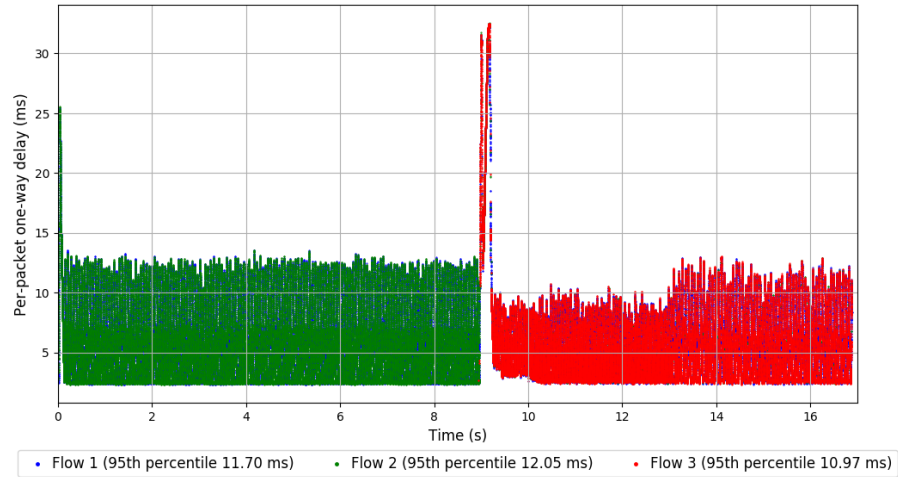
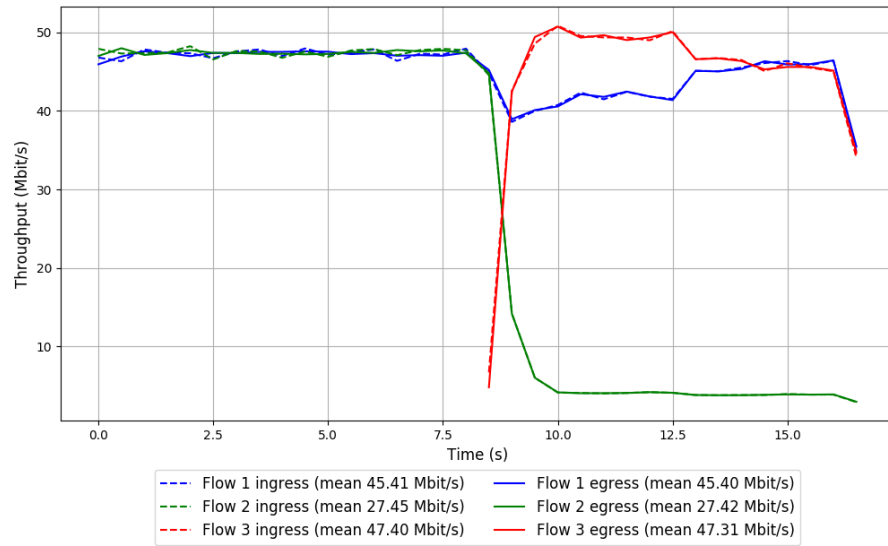
Start at: 2018-01-02 12:18:53

End at: 2018-01-02 12:19:23

Local clock offset: -0.401 ms

Remote clock offset: 0.422 ms

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-01-02 12:35:58

End at: 2018-01-02 12:36:28

Local clock offset: -0.336 ms

Remote clock offset: 0.329 ms

Below is generated by plot.py at 2018-01-02 13:31:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.14 Mbit/s

95th percentile per-packet one-way delay: 11.387 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 50.34 Mbit/s

95th percentile per-packet one-way delay: 10.599 ms

Loss rate: 0.09%

-- Flow 2:

Average throughput: 46.10 Mbit/s

95th percentile per-packet one-way delay: 11.835 ms

Loss rate: 0.00%

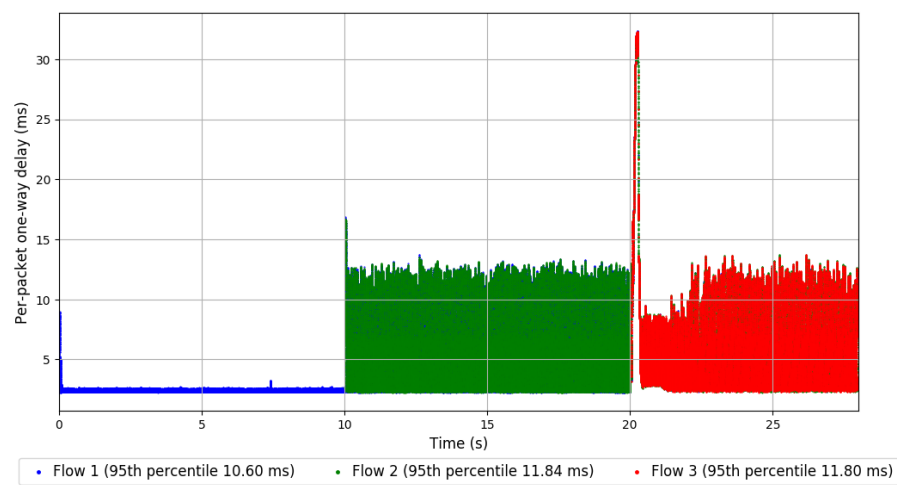
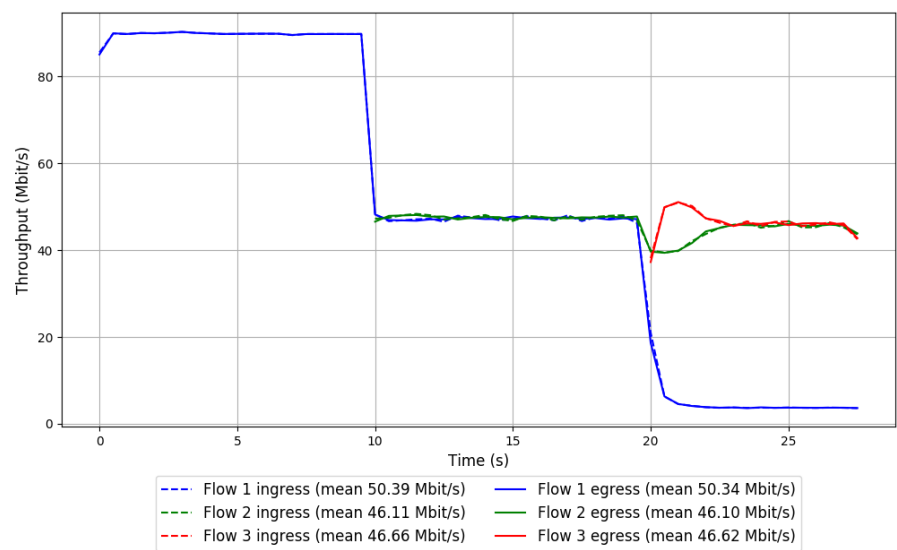
-- Flow 3:

Average throughput: 46.62 Mbit/s

95th percentile per-packet one-way delay: 11.796 ms

Loss rate: 0.06%

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



Run 10: Statistics of TaoVA-100x

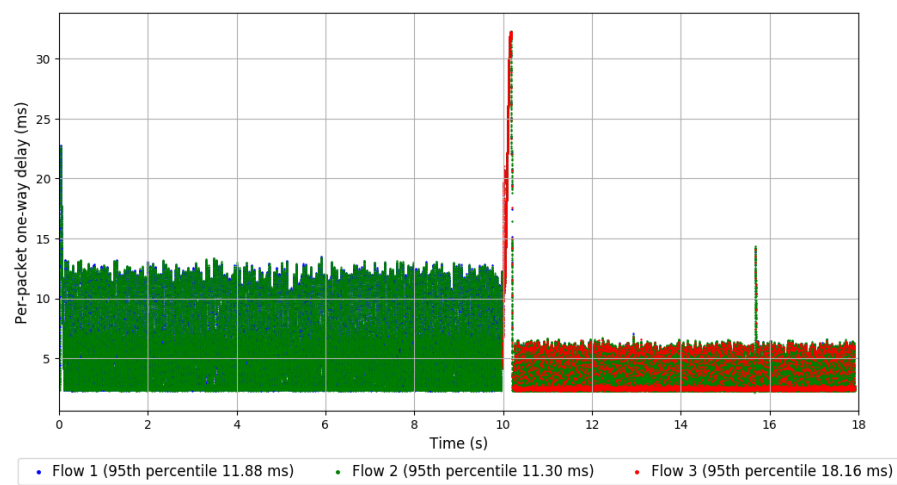
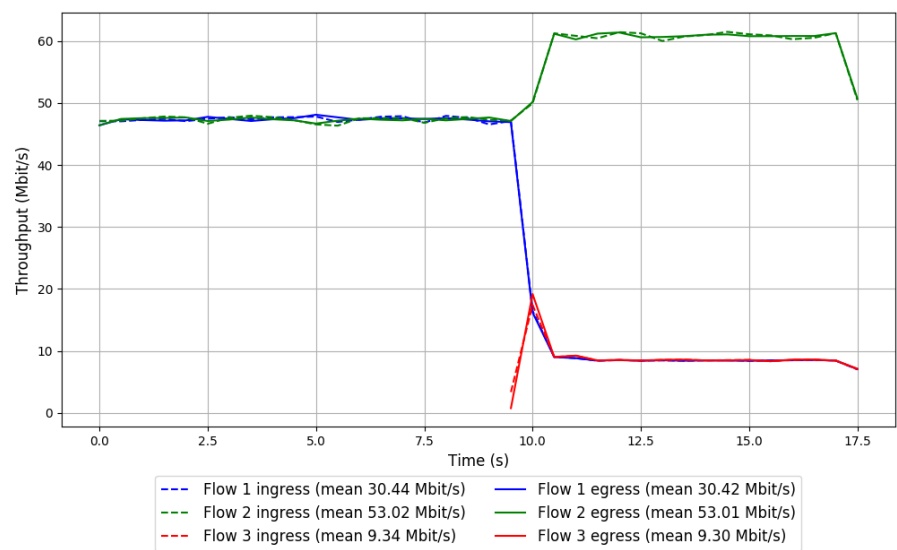
Start at: 2018-01-02 12:53:06

End at: 2018-01-02 12:53:36

Local clock offset: -0.31 ms

Remote clock offset: 0.232 ms

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



Run 1: Statistics of TCP Vegas

Start at: 2018-01-02 10:10:13

End at: 2018-01-02 10:10:43

Local clock offset: -0.386 ms

Remote clock offset: 0.699 ms

Below is generated by plot.py at 2018-01-02 13:31:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.45 Mbit/s

95th percentile per-packet one-way delay: 4.194 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 56.49 Mbit/s

95th percentile per-packet one-way delay: 5.471 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 43.10 Mbit/s

95th percentile per-packet one-way delay: 4.185 ms

Loss rate: 0.00%

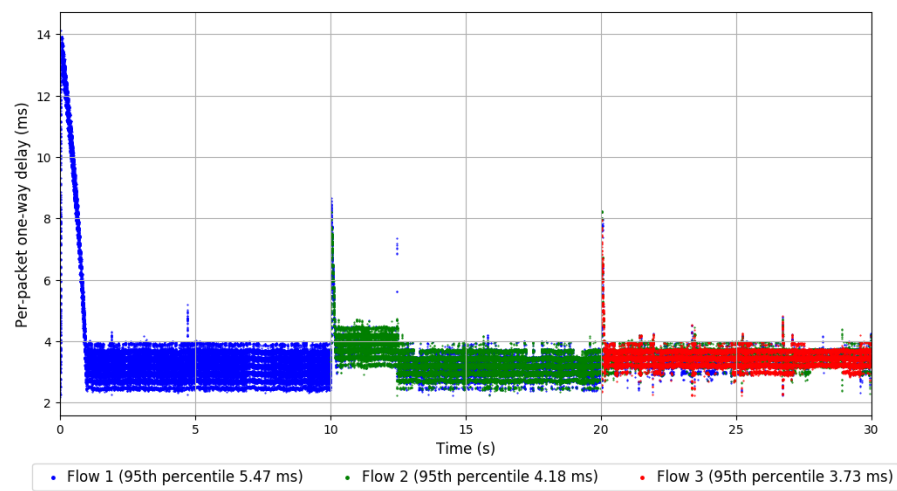
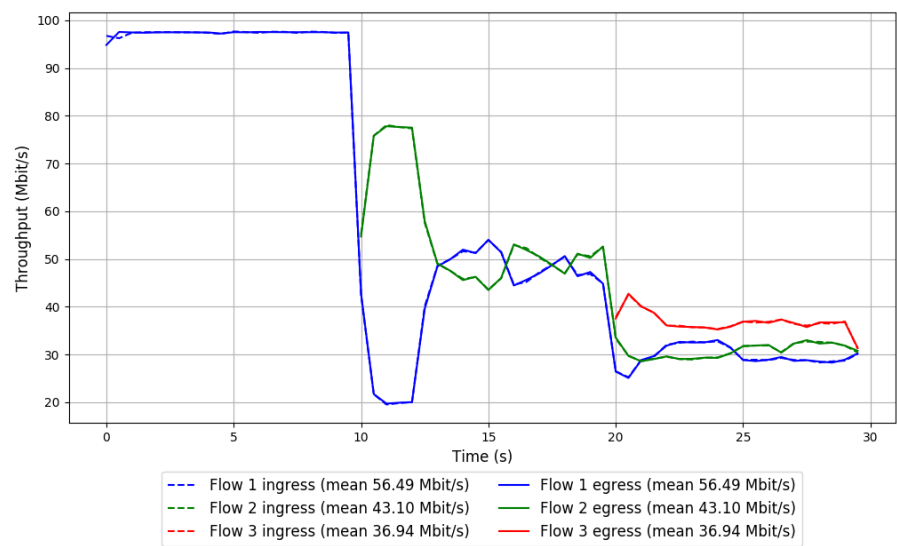
-- Flow 3:

Average throughput: 36.94 Mbit/s

95th percentile per-packet one-way delay: 3.732 ms

Loss rate: 0.00%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-01-02 10:27:17

End at: 2018-01-02 10:27:47

Local clock offset: -0.411 ms

Remote clock offset: 0.685 ms

Below is generated by plot.py at 2018-01-02 13:31:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.28 Mbit/s

95th percentile per-packet one-way delay: 6.463 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 47.86 Mbit/s

95th percentile per-packet one-way delay: 13.172 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 51.50 Mbit/s

95th percentile per-packet one-way delay: 4.235 ms

Loss rate: 0.00%

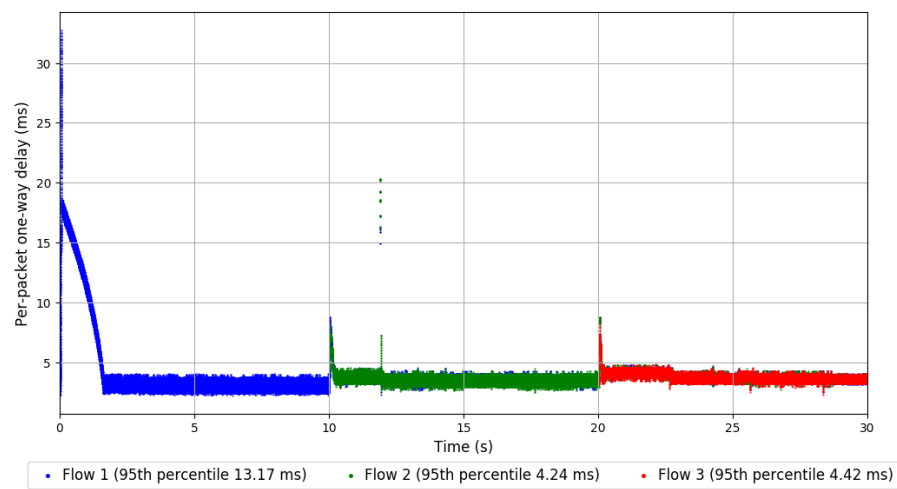
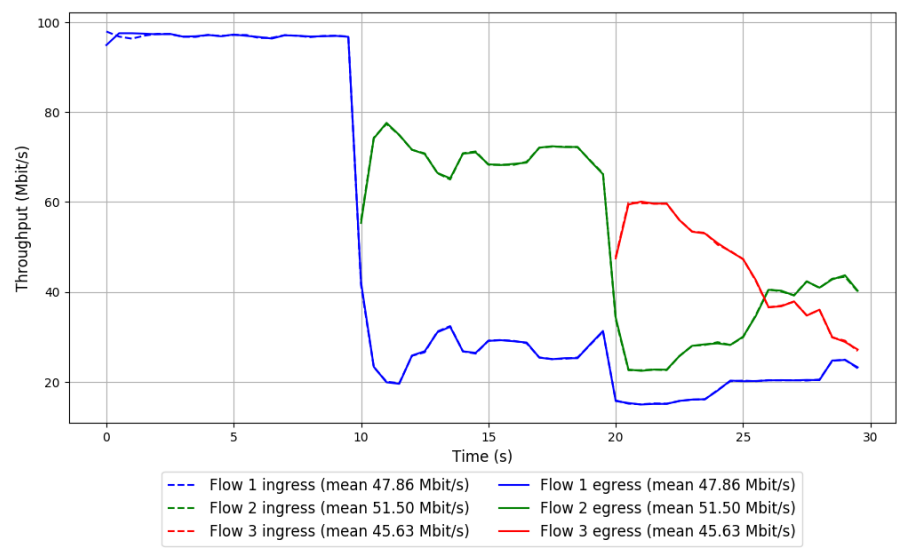
-- Flow 3:

Average throughput: 45.63 Mbit/s

95th percentile per-packet one-way delay: 4.419 ms

Loss rate: 0.00%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-01-02 10:44:22

End at: 2018-01-02 10:44:52

Local clock offset: -0.511 ms

Remote clock offset: 0.624 ms

Below is generated by plot.py at 2018-01-02 13:31:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.22 Mbit/s

95th percentile per-packet one-way delay: 4.503 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 45.06 Mbit/s

95th percentile per-packet one-way delay: 4.333 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 54.37 Mbit/s

95th percentile per-packet one-way delay: 4.361 ms

Loss rate: 0.00%

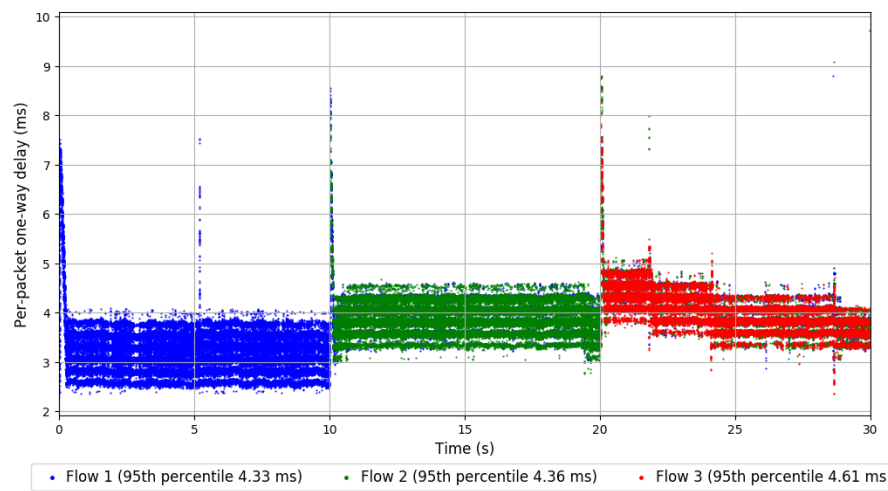
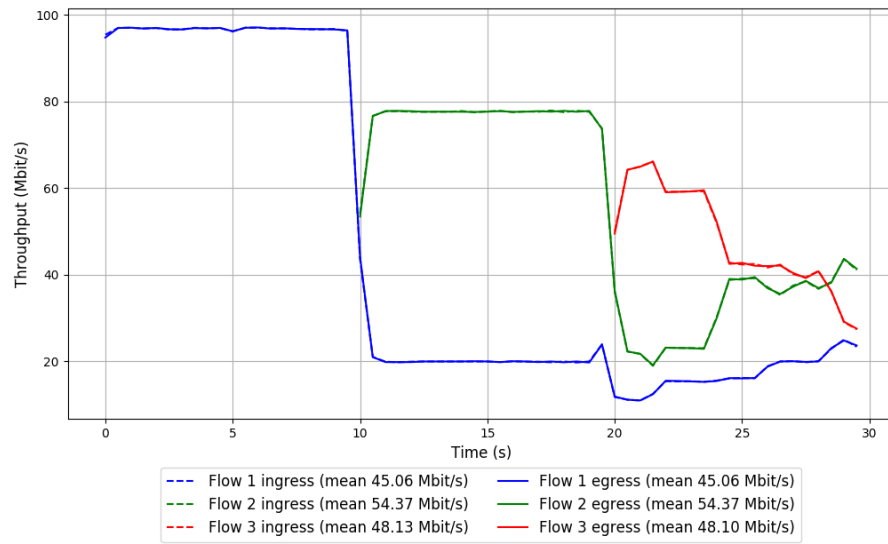
-- Flow 3:

Average throughput: 48.10 Mbit/s

95th percentile per-packet one-way delay: 4.614 ms

Loss rate: 0.00%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-01-02 11:01:27

End at: 2018-01-02 11:01:57

Local clock offset: -0.477 ms

Remote clock offset: 0.548 ms

Below is generated by plot.py at 2018-01-02 13:31:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.18 Mbit/s

95th percentile per-packet one-way delay: 4.469 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 49.58 Mbit/s

95th percentile per-packet one-way delay: 7.737 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 51.47 Mbit/s

95th percentile per-packet one-way delay: 4.173 ms

Loss rate: 0.00%

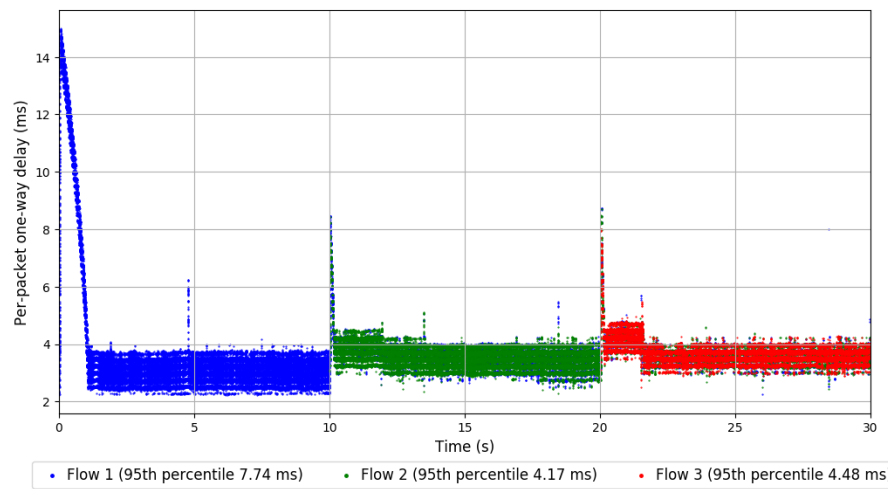
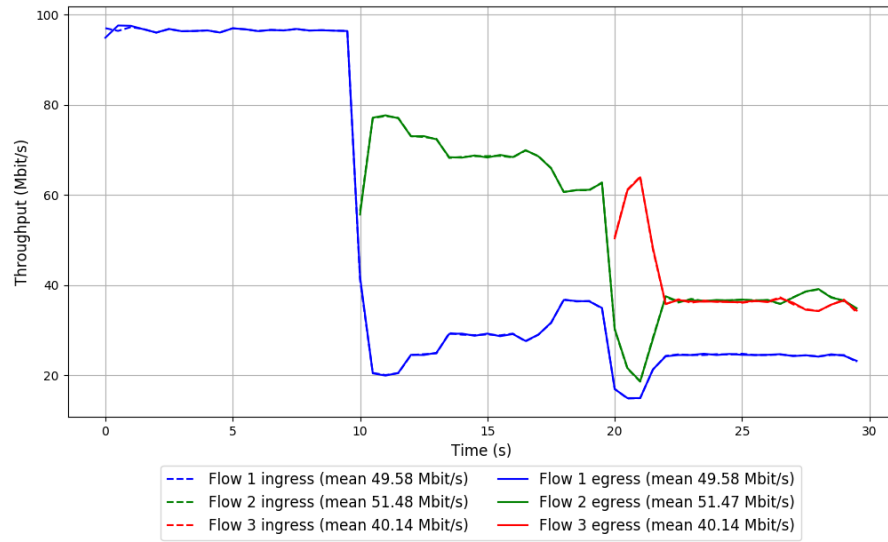
-- Flow 3:

Average throughput: 40.14 Mbit/s

95th percentile per-packet one-way delay: 4.476 ms

Loss rate: 0.00%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-01-02 11:18:32

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

Local clock offset: -0.438 ms

Remote clock offset: 0.523 ms

Below is generated by plot.py at 2018-01-02 13:31:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.22 Mbit/s

95th percentile per-packet one-way delay: 5.175 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 41.02 Mbit/s

95th percentile per-packet one-way delay: 5.204 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 52.17 Mbit/s

95th percentile per-packet one-way delay: 4.968 ms

Loss rate: 0.00%

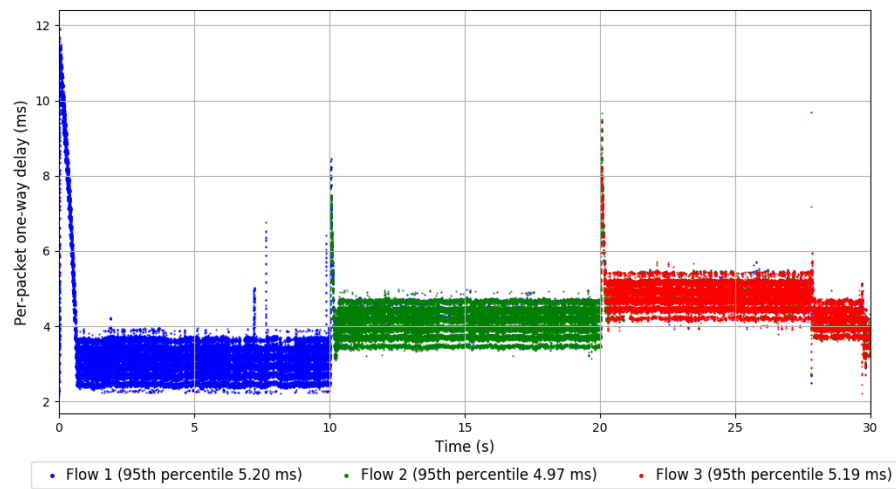
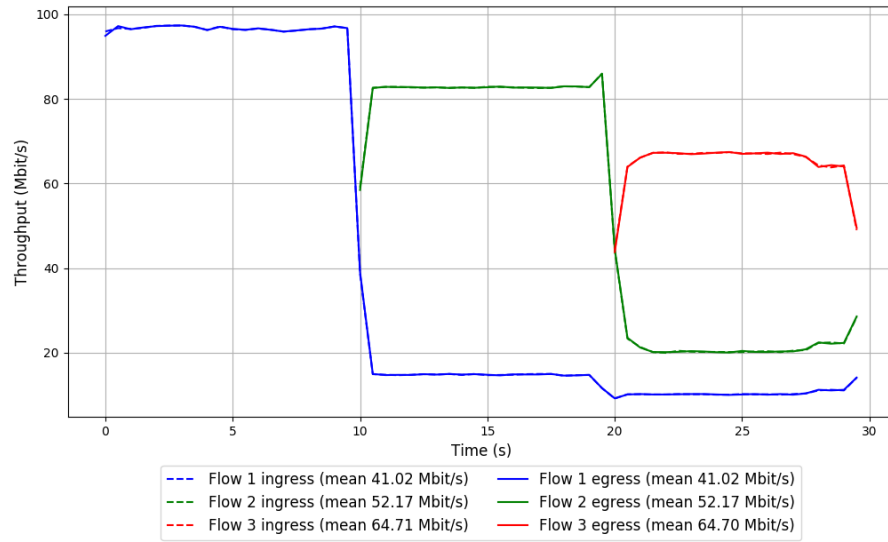
-- Flow 3:

Average throughput: 64.70 Mbit/s

95th percentile per-packet one-way delay: 5.194 ms

Loss rate: 0.00%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-01-02 11:35:37

End at: 2018-01-02 11:36:07

Local clock offset: -0.476 ms

Remote clock offset: 0.54 ms

Below is generated by plot.py at 2018-01-02 13:32:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.35 Mbit/s

95th percentile per-packet one-way delay: 4.807 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 52.60 Mbit/s

95th percentile per-packet one-way delay: 5.985 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 34.05 Mbit/s

95th percentile per-packet one-way delay: 4.578 ms

Loss rate: 0.00%

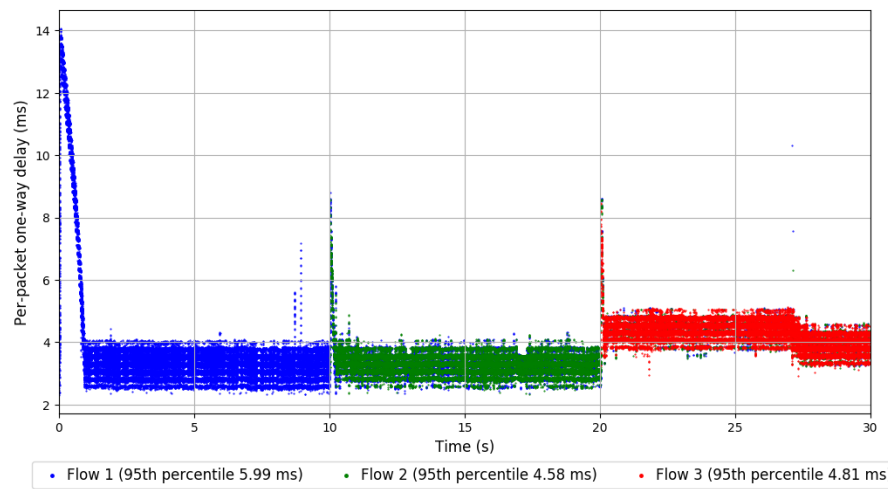
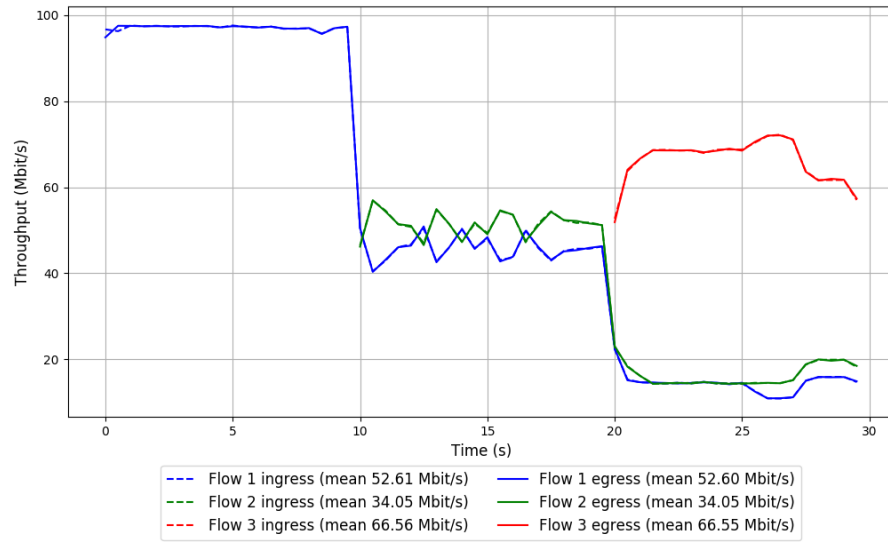
-- Flow 3:

Average throughput: 66.55 Mbit/s

95th percentile per-packet one-way delay: 4.809 ms

Loss rate: 0.00%

Run 6: Report of TCP Vegas — Data Link

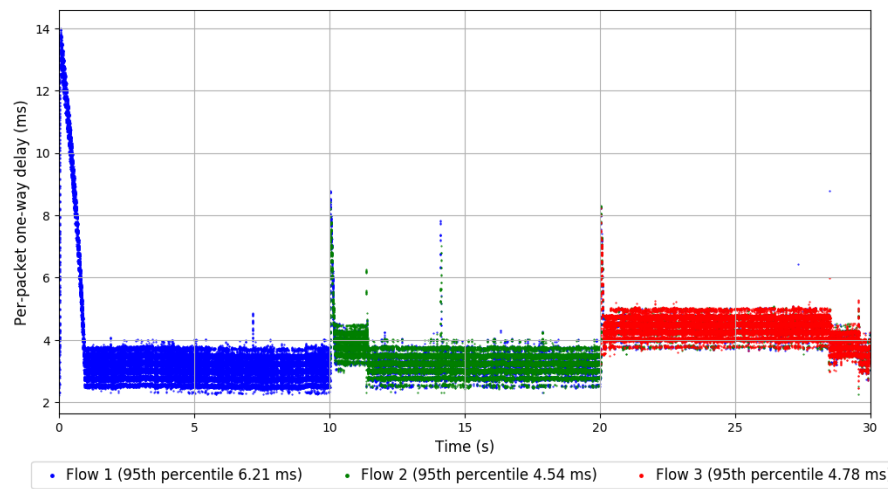
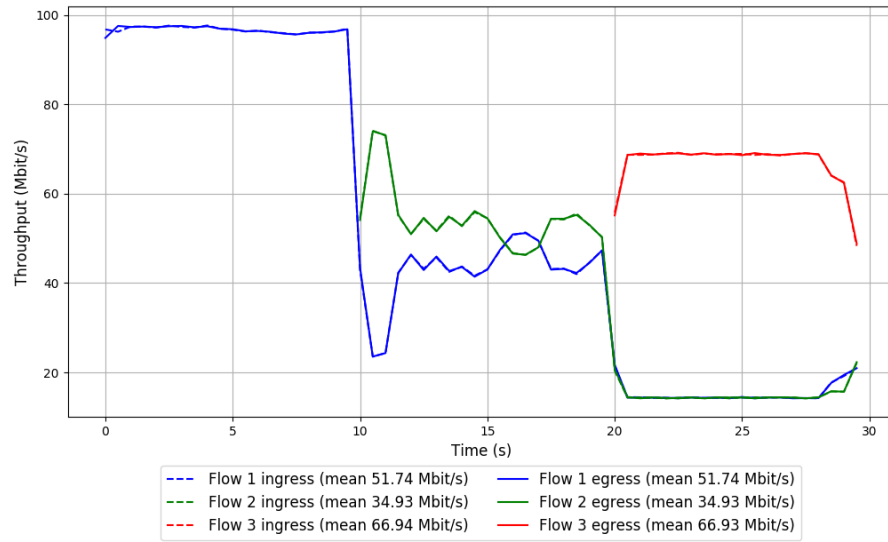


Run 7: Statistics of TCP Vegas

Start at: 2018-01-02 11:52:41
End at: 2018-01-02 11:53:11
Local clock offset: -0.384 ms
Remote clock offset: 0.48 ms

Below is generated by plot.py at 2018-01-02 13:32:02
Datalink statistics
-- Total of 3 flows:
Average throughput: 97.22 Mbit/s
95th percentile per-packet one-way delay: 4.779 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 51.74 Mbit/s
95th percentile per-packet one-way delay: 6.207 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 34.93 Mbit/s
95th percentile per-packet one-way delay: 4.542 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 66.93 Mbit/s
95th percentile per-packet one-way delay: 4.784 ms
Loss rate: 0.00%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-01-02 12:09:50

End at: 2018-01-02 12:10:20

Local clock offset: -0.339 ms

Remote clock offset: 0.502 ms

Below is generated by plot.py at 2018-01-02 13:32:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.12 Mbit/s

95th percentile per-packet one-way delay: 4.553 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 53.38 Mbit/s

95th percentile per-packet one-way delay: 8.390 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 34.81 Mbit/s

95th percentile per-packet one-way delay: 4.510 ms

Loss rate: 0.00%

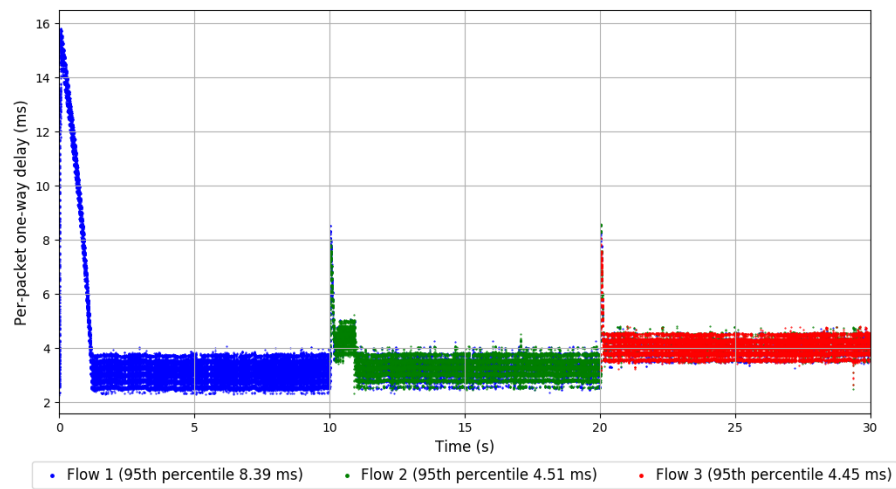
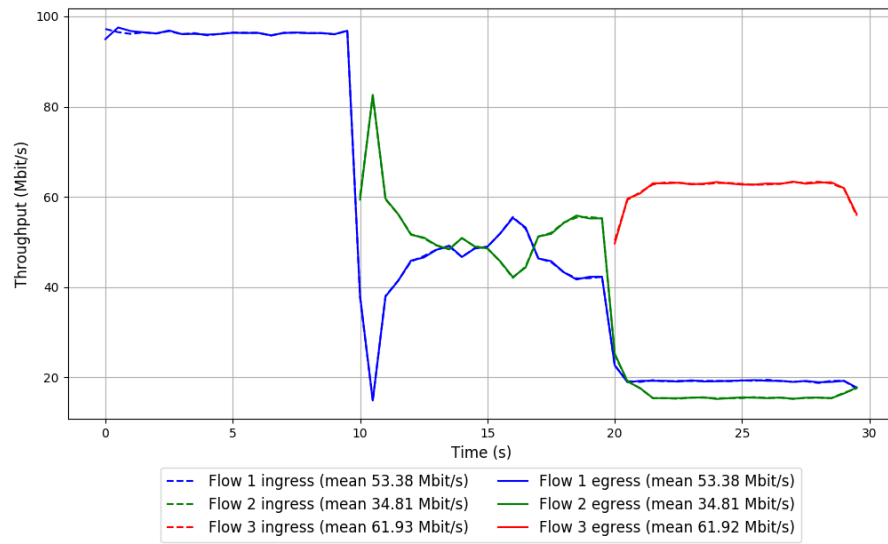
-- Flow 3:

Average throughput: 61.92 Mbit/s

95th percentile per-packet one-way delay: 4.447 ms

Loss rate: 0.00%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-01-02 12:26:55

End at: 2018-01-02 12:27:25

Local clock offset: -0.33 ms

Remote clock offset: 0.329 ms

Below is generated by plot.py at 2018-01-02 13:32:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.04 Mbit/s

95th percentile per-packet one-way delay: 5.182 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 44.00 Mbit/s

95th percentile per-packet one-way delay: 5.151 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 49.69 Mbit/s

95th percentile per-packet one-way delay: 4.987 ms

Loss rate: 0.00%

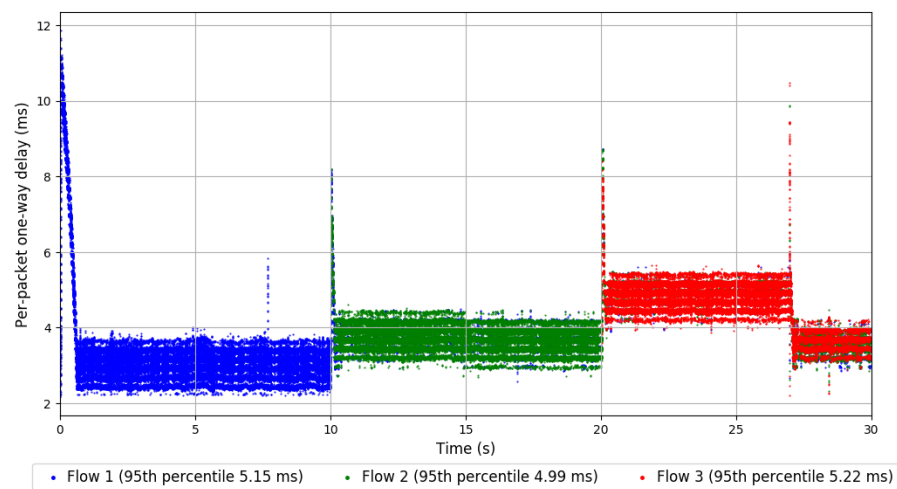
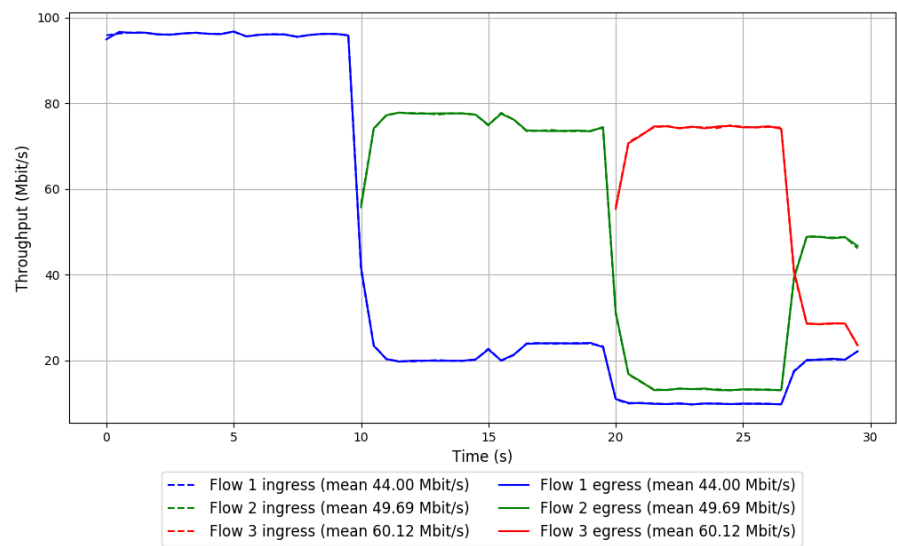
-- Flow 3:

Average throughput: 60.12 Mbit/s

95th percentile per-packet one-way delay: 5.216 ms

Loss rate: 0.00%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-01-02 12:44:03

End at: 2018-01-02 12:44:33

Local clock offset: -0.328 ms

Remote clock offset: 0.291 ms

Below is generated by plot.py at 2018-01-02 13:32:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.09 Mbit/s

95th percentile per-packet one-way delay: 4.979 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 43.68 Mbit/s

95th percentile per-packet one-way delay: 6.042 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 52.45 Mbit/s

95th percentile per-packet one-way delay: 4.780 ms

Loss rate: 0.00%

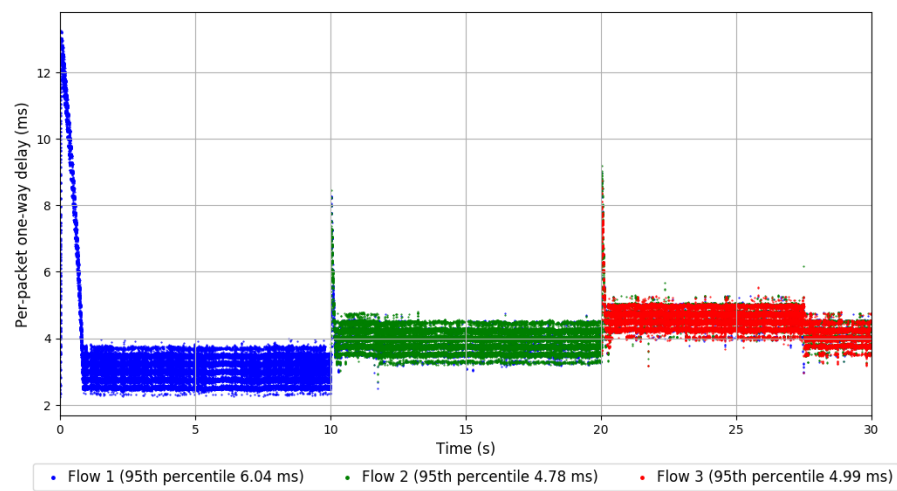
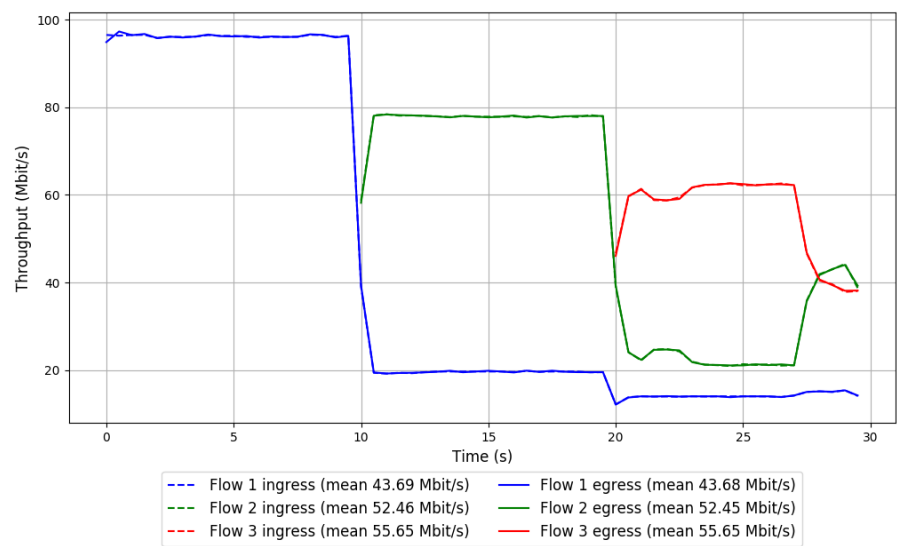
-- Flow 3:

Average throughput: 55.65 Mbit/s

95th percentile per-packet one-way delay: 4.986 ms

Loss rate: 0.00%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

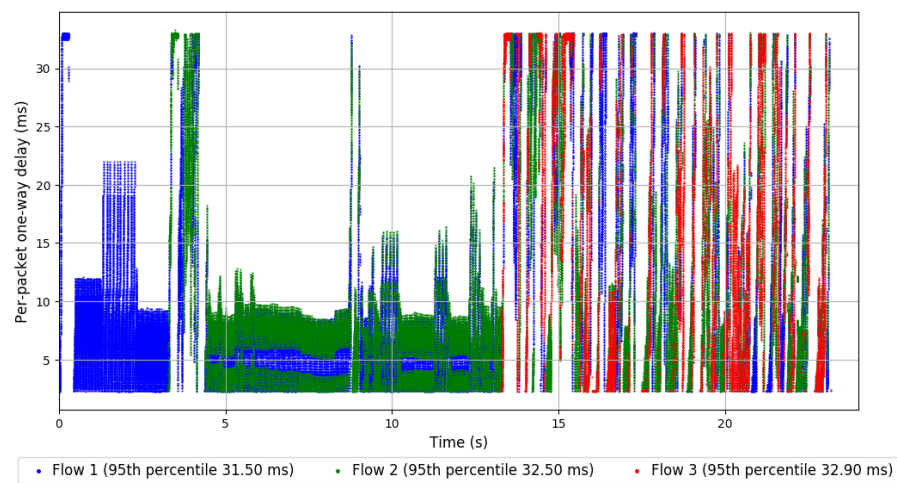
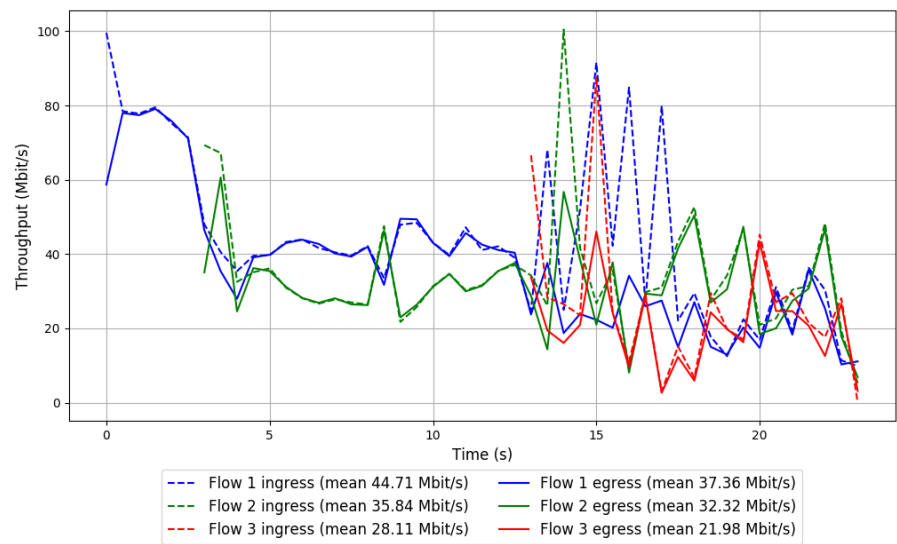
Start at: 2018-01-02 10:21:35

End at: 2018-01-02 10:22:05

Local clock offset: -0.403 ms

Remote clock offset: 0.717 ms

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-01-02 10:38:39

End at: 2018-01-02 10:39:09

Local clock offset: -0.414 ms

Remote clock offset: 0.644 ms

Below is generated by plot.py at 2018-01-02 13:33:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 70.86 Mbit/s

95th percentile per-packet one-way delay: 32.679 ms

Loss rate: 23.89%

-- Flow 1:

Average throughput: 42.70 Mbit/s

95th percentile per-packet one-way delay: 31.809 ms

Loss rate: 8.48%

-- Flow 2:

Average throughput: 28.82 Mbit/s

95th percentile per-packet one-way delay: 32.813 ms

Loss rate: 35.30%

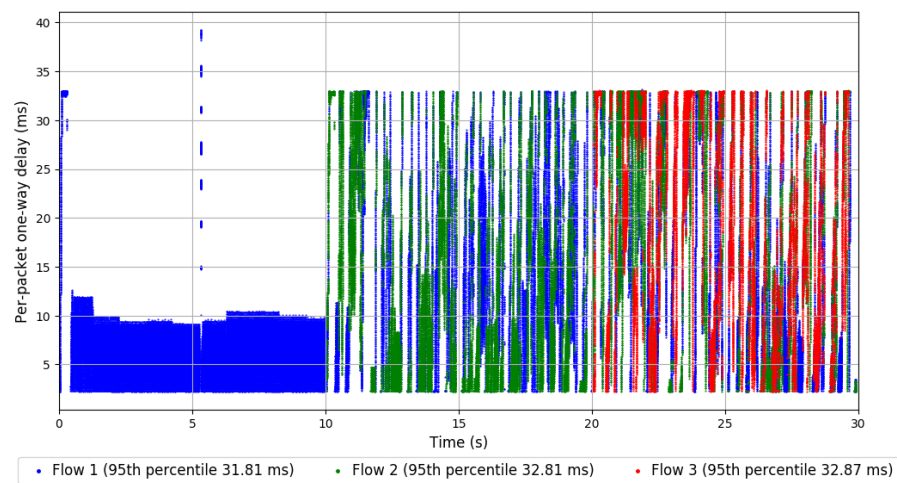
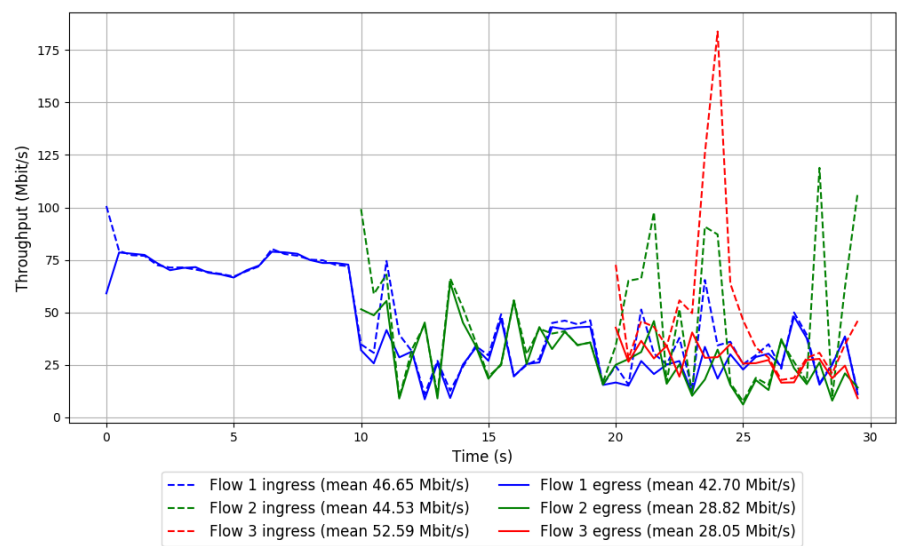
-- Flow 3:

Average throughput: 28.05 Mbit/s

95th percentile per-packet one-way delay: 32.869 ms

Loss rate: 46.50%

Run 2: Report of Verus — Data Link

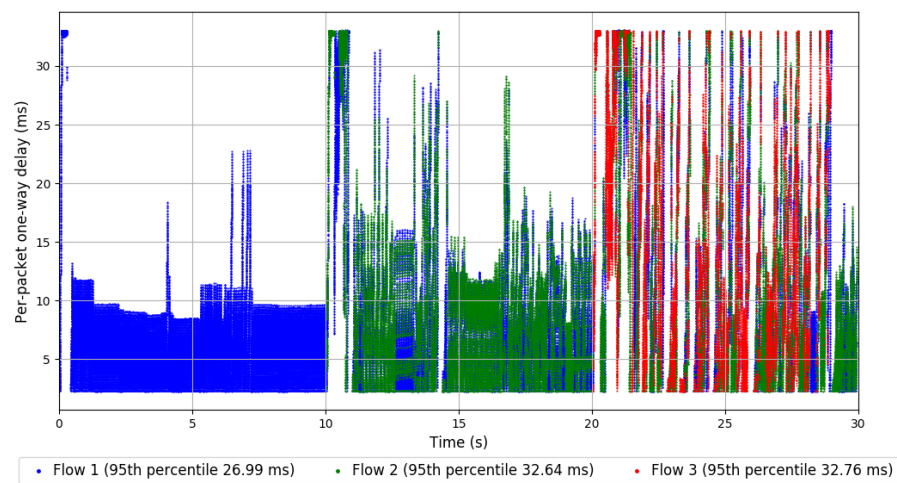
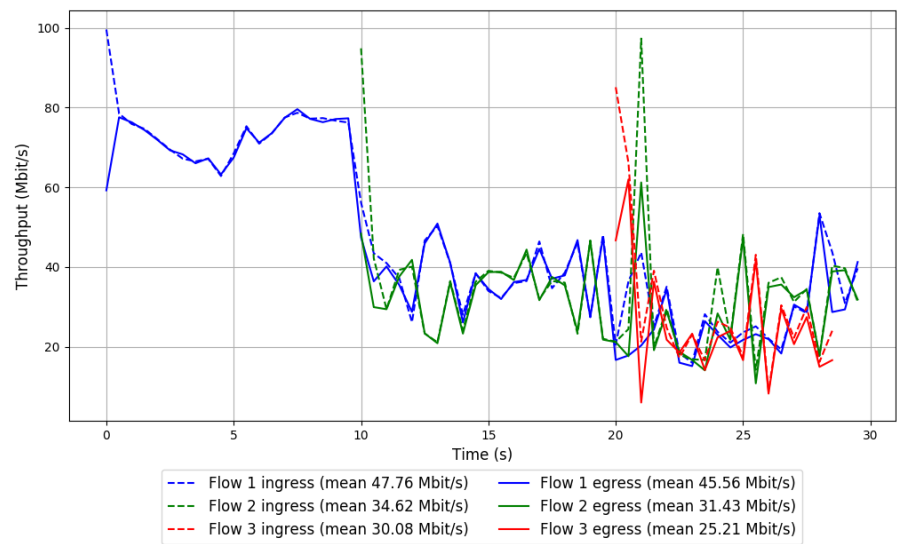


Run 3: Statistics of Verus

Start at: 2018-01-02 10:55:43
End at: 2018-01-02 10:56:13
Local clock offset: -0.421 ms
Remote clock offset: 0.62 ms

Below is generated by plot.py at 2018-01-02 13:33:04
Datalink statistics
-- Total of 3 flows:
Average throughput: 74.00 Mbit/s
95th percentile per-packet one-way delay: 31.229 ms
Loss rate: 7.21%
-- Flow 1:
Average throughput: 45.56 Mbit/s
95th percentile per-packet one-way delay: 26.989 ms
Loss rate: 4.61%
-- Flow 2:
Average throughput: 31.43 Mbit/s
95th percentile per-packet one-way delay: 32.638 ms
Loss rate: 9.19%
-- Flow 3:
Average throughput: 25.21 Mbit/s
95th percentile per-packet one-way delay: 32.763 ms
Loss rate: 16.00%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-01-02 11:12:48

End at: 2018-01-02 11:13:18

Local clock offset: -0.432 ms

Remote clock offset: 0.521 ms

Below is generated by plot.py at 2018-01-02 13:33:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 75.69 Mbit/s

95th percentile per-packet one-way delay: 32.742 ms

Loss rate: 27.83%

-- Flow 1:

Average throughput: 45.50 Mbit/s

95th percentile per-packet one-way delay: 31.882 ms

Loss rate: 11.10%

-- Flow 2:

Average throughput: 32.22 Mbit/s

95th percentile per-packet one-way delay: 32.775 ms

Loss rate: 40.53%

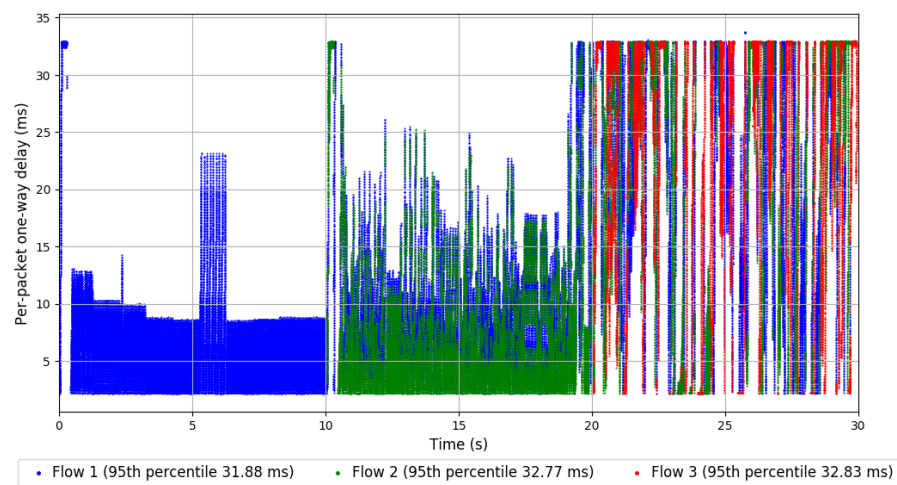
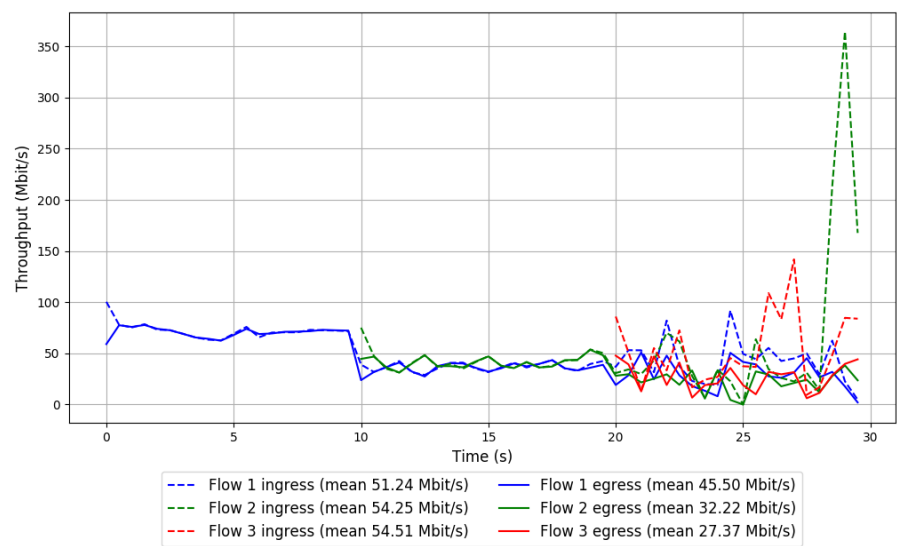
-- Flow 3:

Average throughput: 27.37 Mbit/s

95th percentile per-packet one-way delay: 32.827 ms

Loss rate: 49.72%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-01-02 11:29:53

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

Local clock offset: -0.433 ms

Remote clock offset: 0.557 ms

Below is generated by plot.py at 2018-01-02 13:33:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 76.85 Mbit/s

95th percentile per-packet one-way delay: 31.950 ms

Loss rate: 16.21%

-- Flow 1:

Average throughput: 46.79 Mbit/s

95th percentile per-packet one-way delay: 30.275 ms

Loss rate: 13.31%

-- Flow 2:

Average throughput: 28.77 Mbit/s

95th percentile per-packet one-way delay: 32.591 ms

Loss rate: 22.96%

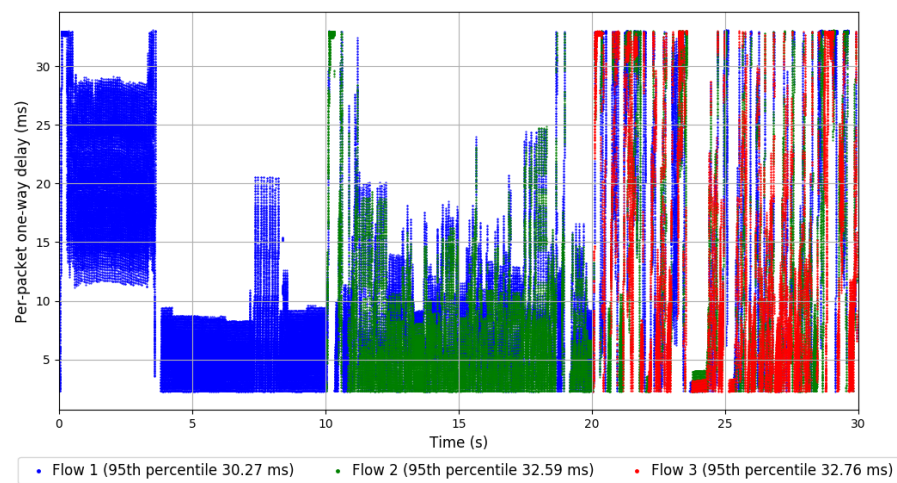
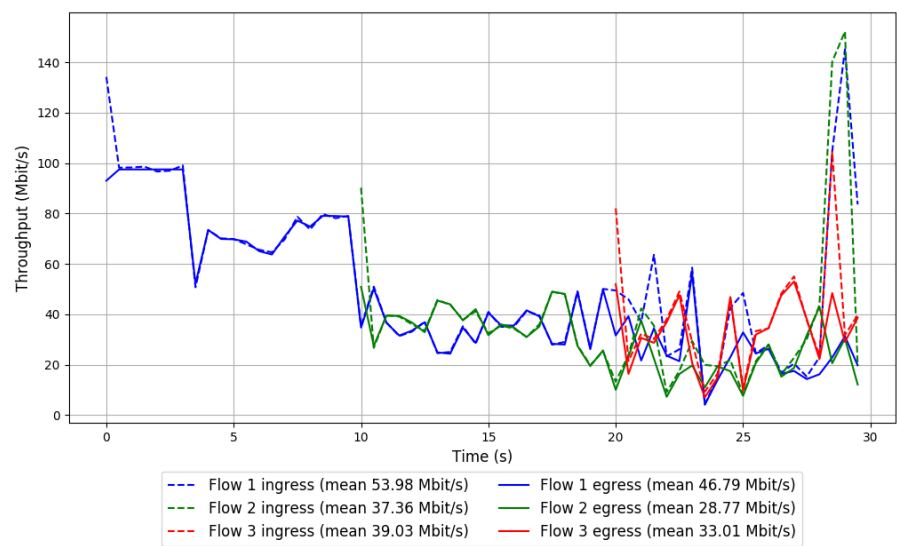
-- Flow 3:

Average throughput: 33.01 Mbit/s

95th percentile per-packet one-way delay: 32.762 ms

Loss rate: 15.37%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-01-02 11:46:58

End at: 2018-01-02 11:47:28

Local clock offset: -0.359 ms

Remote clock offset: 0.503 ms

Below is generated by plot.py at 2018-01-02 13:33:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 74.20 Mbit/s

95th percentile per-packet one-way delay: 32.141 ms

Loss rate: 8.76%

-- Flow 1:

Average throughput: 46.23 Mbit/s

95th percentile per-packet one-way delay: 30.428 ms

Loss rate: 5.70%

-- Flow 2:

Average throughput: 29.20 Mbit/s

95th percentile per-packet one-way delay: 32.617 ms

Loss rate: 12.51%

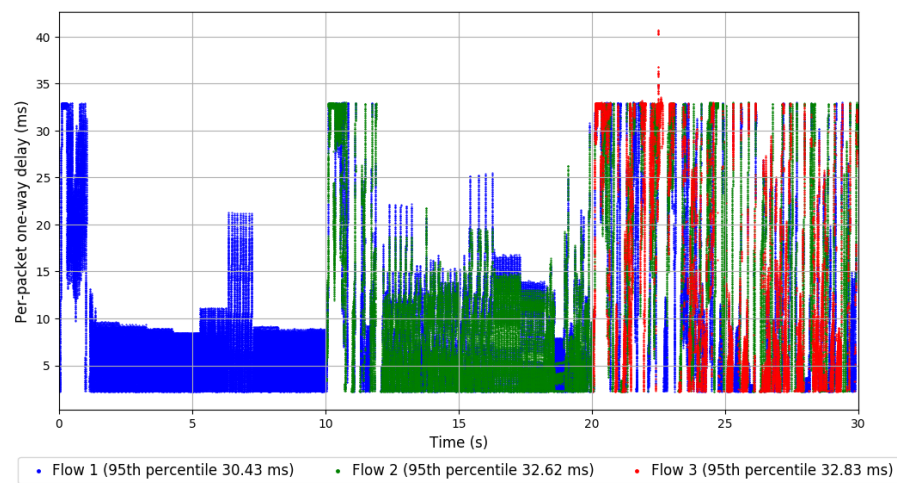
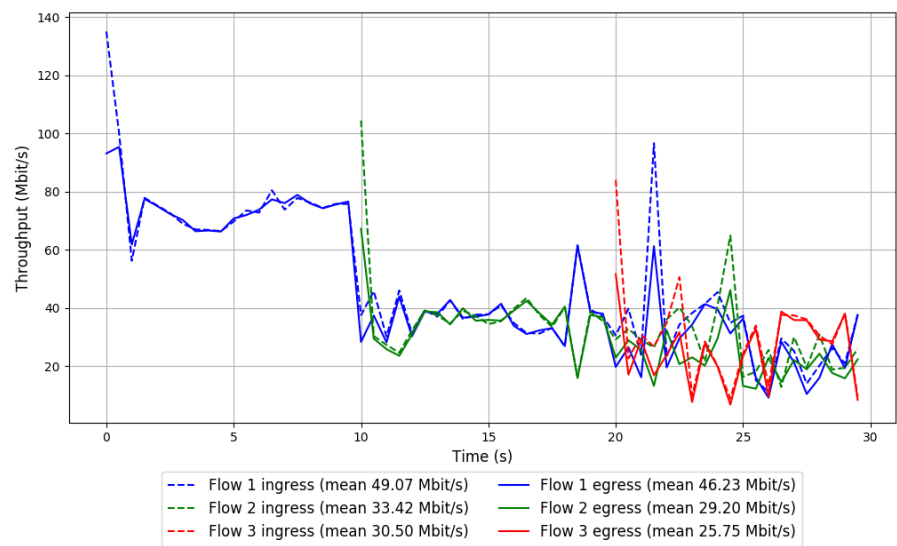
-- Flow 3:

Average throughput: 25.75 Mbit/s

95th percentile per-packet one-way delay: 32.830 ms

Loss rate: 15.36%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-01-02 12:04:06

End at: 2018-01-02 12:04:36

Local clock offset: -0.334 ms

Remote clock offset: 0.49 ms

Below is generated by plot.py at 2018-01-02 13:33:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 77.23 Mbit/s

95th percentile per-packet one-way delay: 32.703 ms

Loss rate: 16.01%

-- Flow 1:

Average throughput: 46.15 Mbit/s

95th percentile per-packet one-way delay: 32.135 ms

Loss rate: 13.59%

-- Flow 2:

Average throughput: 32.45 Mbit/s

95th percentile per-packet one-way delay: 32.703 ms

Loss rate: 12.10%

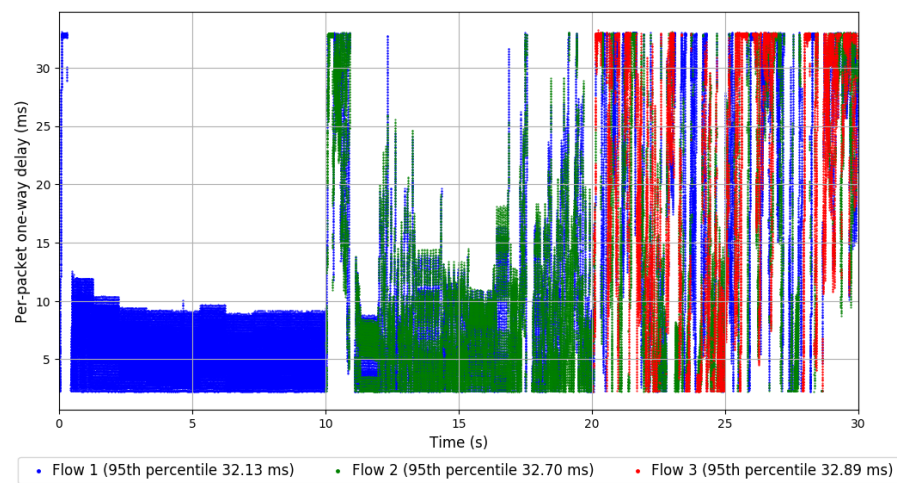
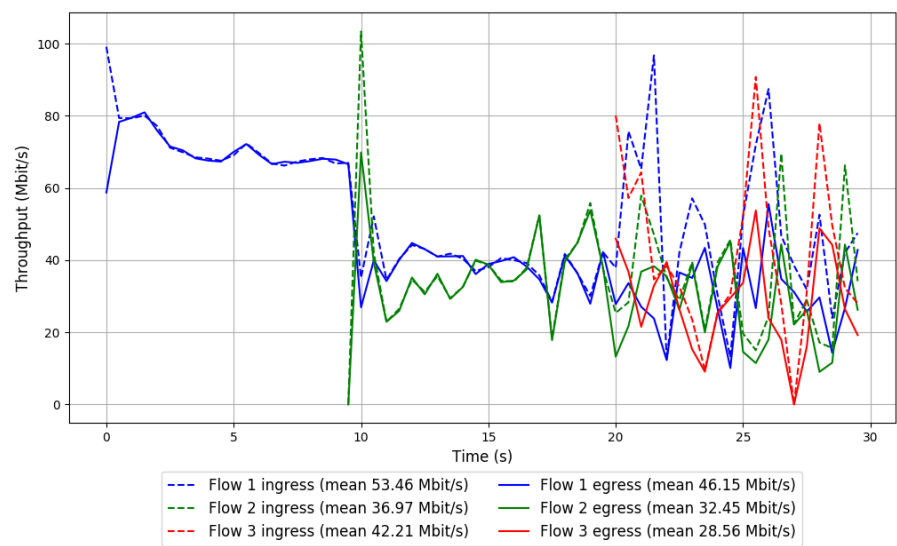
-- Flow 3:

Average throughput: 28.56 Mbit/s

95th percentile per-packet one-way delay: 32.894 ms

Loss rate: 32.17%

Run 7: Report of Verus — Data Link

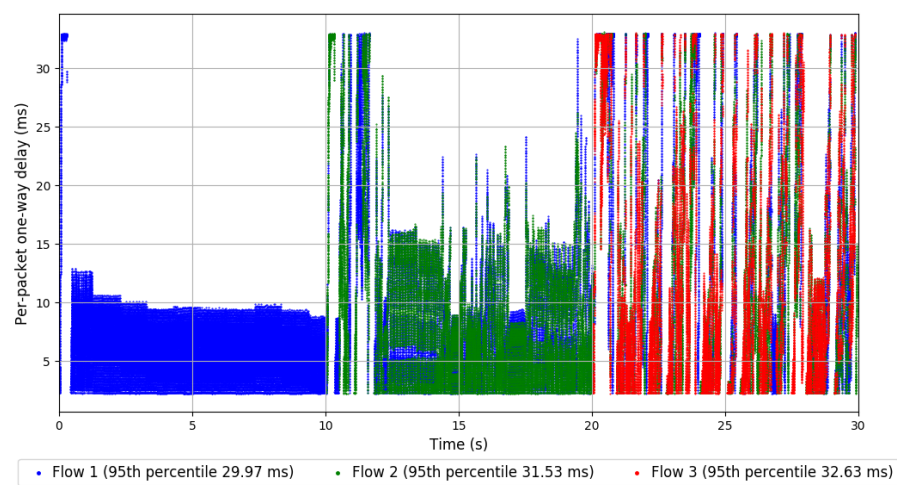
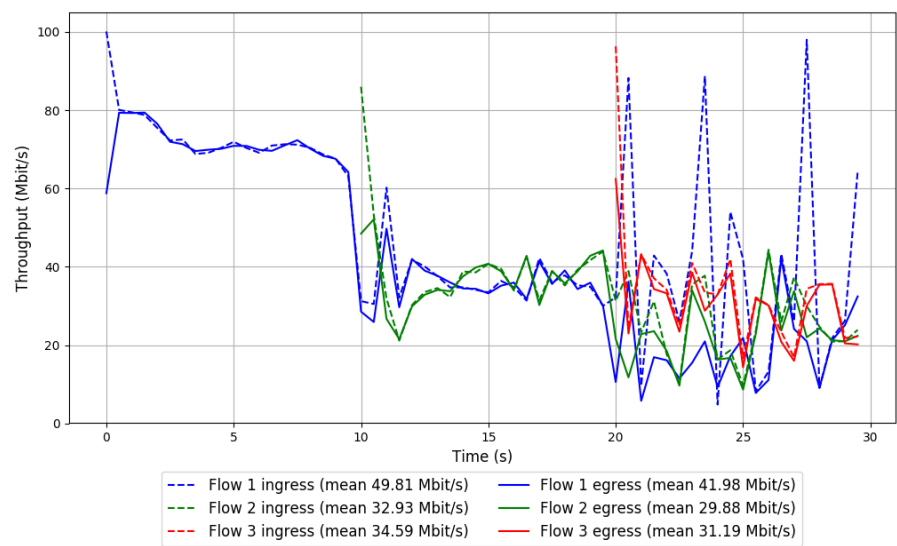


Run 8: Statistics of Verus

Start at: 2018-01-02 12:21:11
End at: 2018-01-02 12:21:41
Local clock offset: -0.303 ms
Remote clock offset: 0.406 ms

Below is generated by plot.py at 2018-01-02 13:33:49
Datalink statistics
-- Total of 3 flows:
Average throughput: 72.02 Mbit/s
95th percentile per-packet one-way delay: 31.370 ms
Loss rate: 13.12%
-- Flow 1:
Average throughput: 41.98 Mbit/s
95th percentile per-packet one-way delay: 29.972 ms
Loss rate: 15.64%
-- Flow 2:
Average throughput: 29.88 Mbit/s
95th percentile per-packet one-way delay: 31.530 ms
Loss rate: 9.21%
-- Flow 3:
Average throughput: 31.19 Mbit/s
95th percentile per-packet one-way delay: 32.627 ms
Loss rate: 9.61%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-01-02 12:38:19

End at: 2018-01-02 12:38:49

Local clock offset: -0.308 ms

Remote clock offset: 0.286 ms

Below is generated by plot.py at 2018-01-02 13:34:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 78.05 Mbit/s

95th percentile per-packet one-way delay: 32.068 ms

Loss rate: 15.13%

-- Flow 1:

Average throughput: 49.06 Mbit/s

95th percentile per-packet one-way delay: 30.522 ms

Loss rate: 6.63%

-- Flow 2:

Average throughput: 30.94 Mbit/s

95th percentile per-packet one-way delay: 32.293 ms

Loss rate: 20.60%

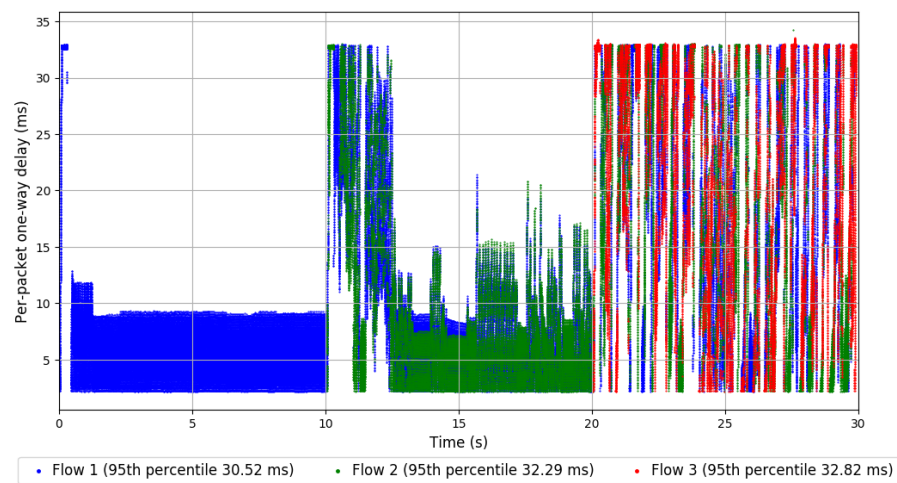
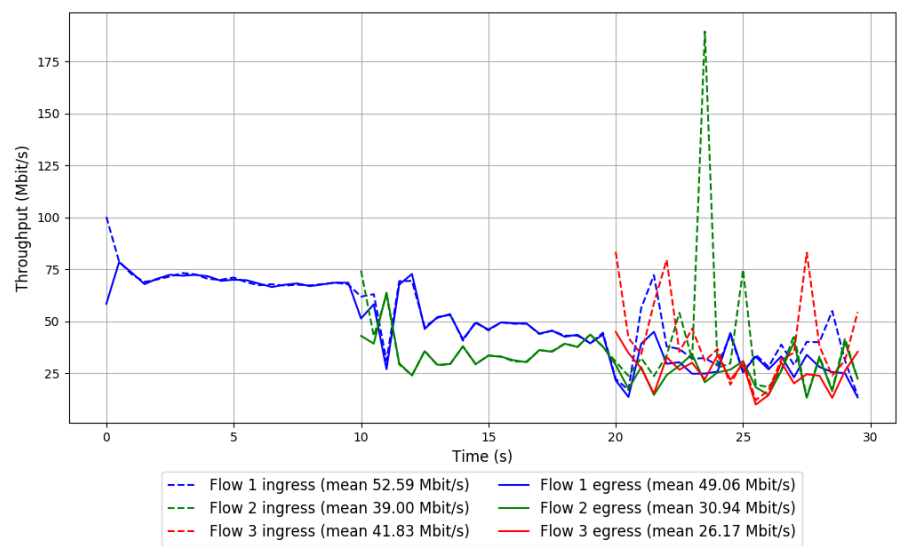
-- Flow 3:

Average throughput: 26.17 Mbit/s

95th percentile per-packet one-way delay: 32.820 ms

Loss rate: 37.25%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-01-02 12:55:24

End at: 2018-01-02 12:55:54

Local clock offset: -0.276 ms

Remote clock offset: 0.204 ms

Below is generated by plot.py at 2018-01-02 13:34:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 72.44 Mbit/s

95th percentile per-packet one-way delay: 32.653 ms

Loss rate: 19.64%

-- Flow 1:

Average throughput: 45.45 Mbit/s

95th percentile per-packet one-way delay: 30.536 ms

Loss rate: 6.32%

-- Flow 2:

Average throughput: 30.63 Mbit/s

95th percentile per-packet one-way delay: 32.695 ms

Loss rate: 12.97%

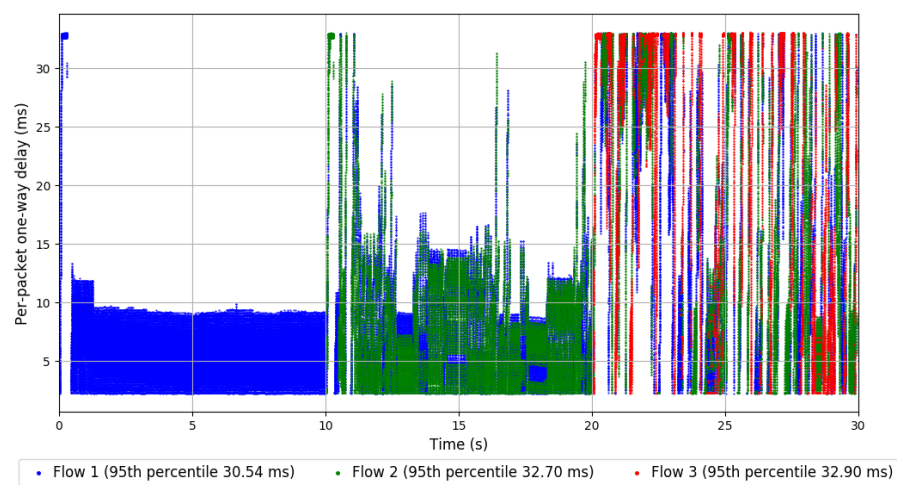
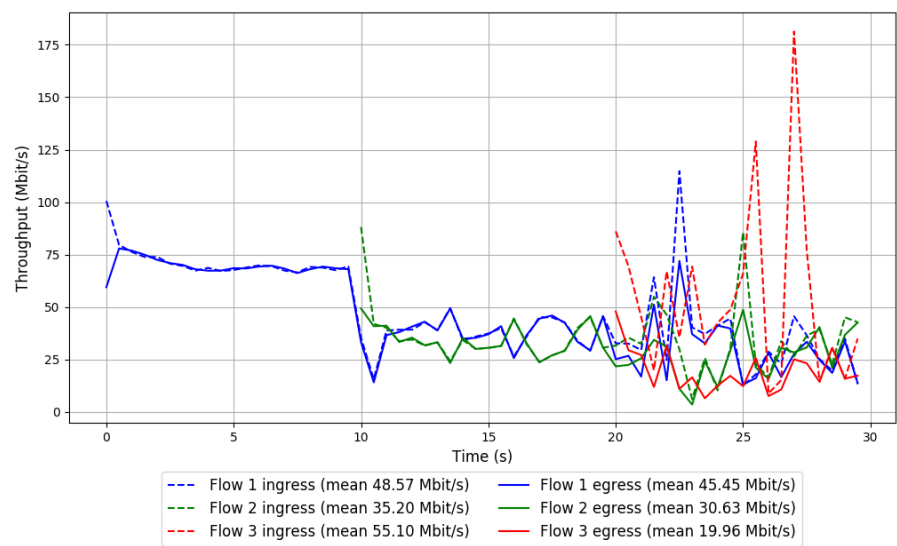
-- Flow 3:

Average throughput: 19.96 Mbit/s

95th percentile per-packet one-way delay: 32.895 ms

Loss rate: 63.71%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2018-01-02 10:07:53

End at: 2018-01-02 10:08:23

Local clock offset: -0.427 ms

Remote clock offset: 0.757 ms

Below is generated by plot.py at 2018-01-02 13:35:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.94 Mbit/s

95th percentile per-packet one-way delay: 5.383 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 57.86 Mbit/s

95th percentile per-packet one-way delay: 5.066 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 39.67 Mbit/s

95th percentile per-packet one-way delay: 5.463 ms

Loss rate: 0.00%

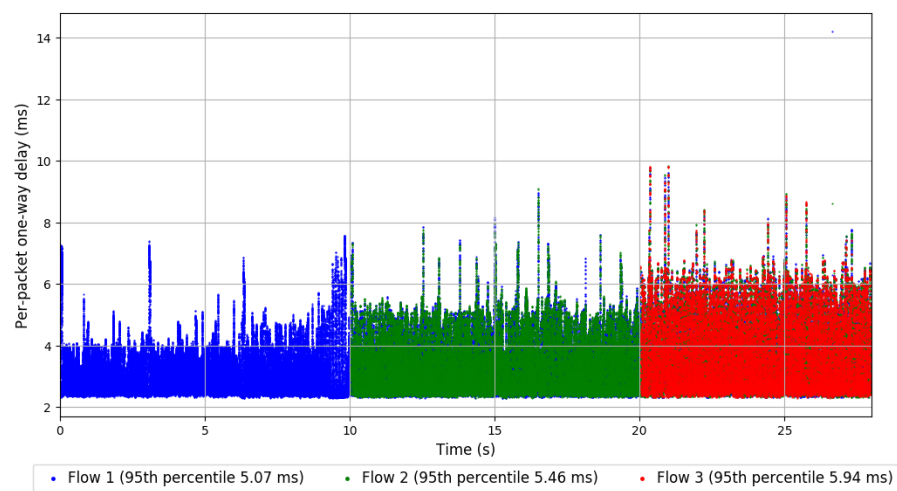
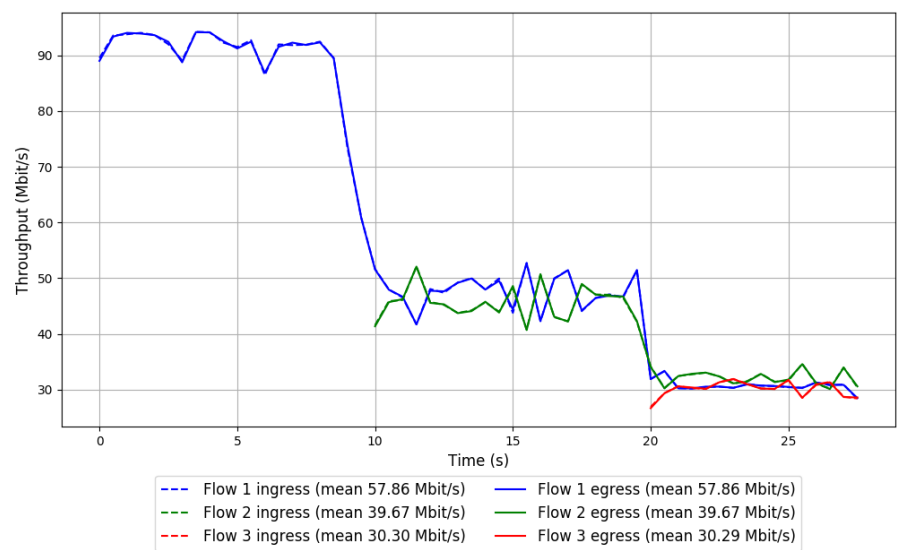
-- Flow 3:

Average throughput: 30.29 Mbit/s

95th percentile per-packet one-way delay: 5.937 ms

Loss rate: 0.00%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-01-02 10:24:57

End at: 2018-01-02 10:25:27

Local clock offset: -0.402 ms

Remote clock offset: 0.69 ms

Below is generated by plot.py at 2018-01-02 13:35:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.98 Mbit/s

95th percentile per-packet one-way delay: 5.211 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 58.39 Mbit/s

95th percentile per-packet one-way delay: 4.833 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 40.13 Mbit/s

95th percentile per-packet one-way delay: 5.351 ms

Loss rate: 0.00%

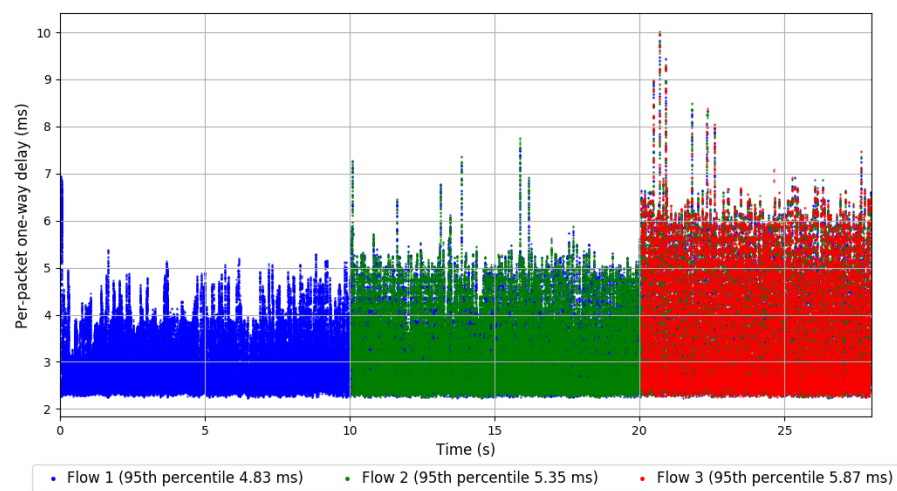
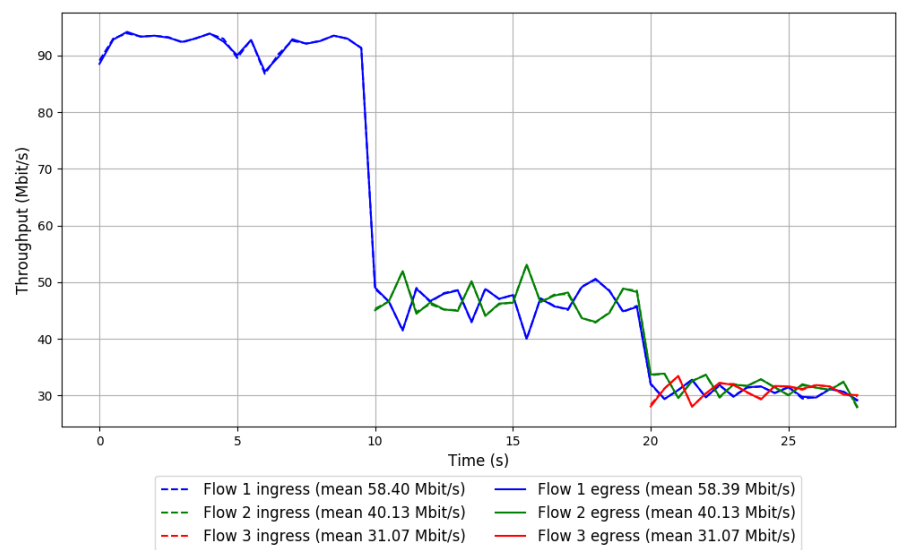
-- Flow 3:

Average throughput: 31.07 Mbit/s

95th percentile per-packet one-way delay: 5.871 ms

Loss rate: 0.00%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-01-02 10:42:02

End at: 2018-01-02 10:42:32

Local clock offset: -0.524 ms

Remote clock offset: 0.63 ms

Below is generated by plot.py at 2018-01-02 13:35:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.45 Mbit/s

95th percentile per-packet one-way delay: 4.770 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 62.80 Mbit/s

95th percentile per-packet one-way delay: 4.662 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 46.18 Mbit/s

95th percentile per-packet one-way delay: 4.898 ms

Loss rate: 0.00%

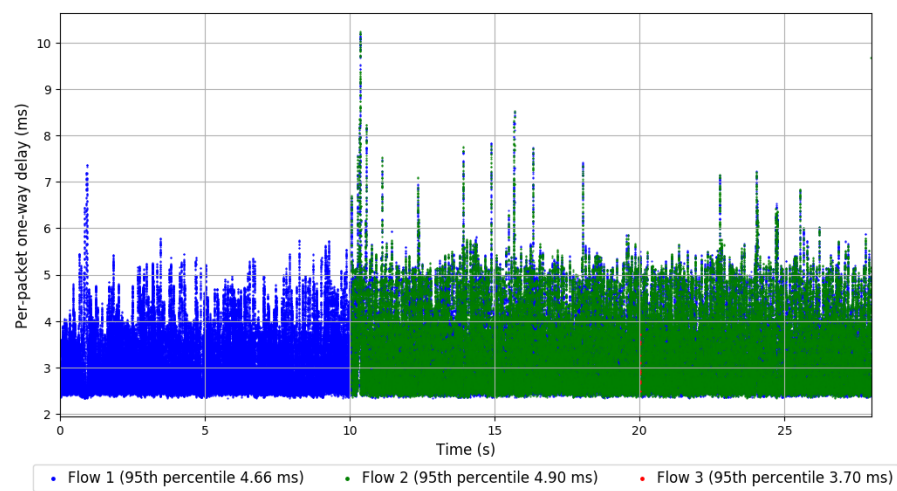
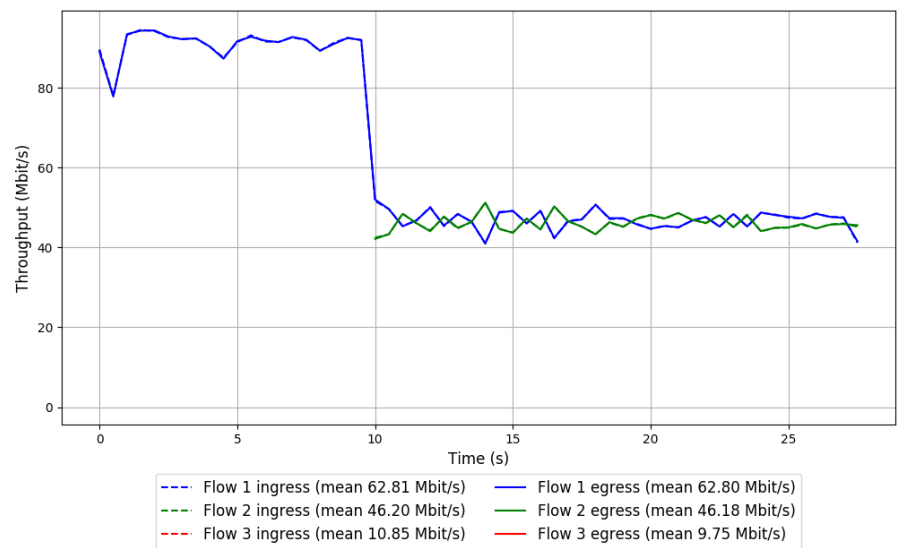
-- Flow 3:

Average throughput: 9.75 Mbit/s

95th percentile per-packet one-way delay: 3.704 ms

Loss rate: 0.00%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-01-02 10:59:07

End at: 2018-01-02 10:59:37

Local clock offset: -0.485 ms

Remote clock offset: 0.613 ms

Below is generated by plot.py at 2018-01-02 13:35:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.07 Mbit/s

95th percentile per-packet one-way delay: 5.501 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 59.02 Mbit/s

95th percentile per-packet one-way delay: 5.022 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 39.18 Mbit/s

95th percentile per-packet one-way delay: 5.710 ms

Loss rate: 0.00%

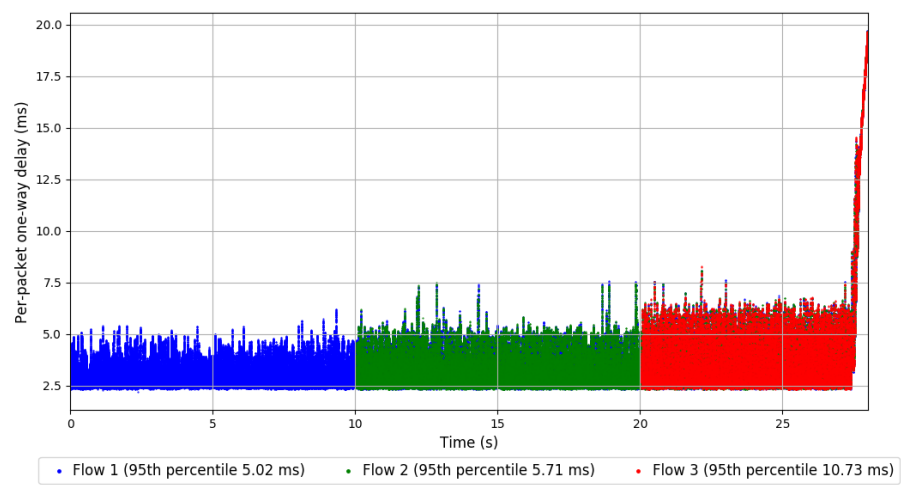
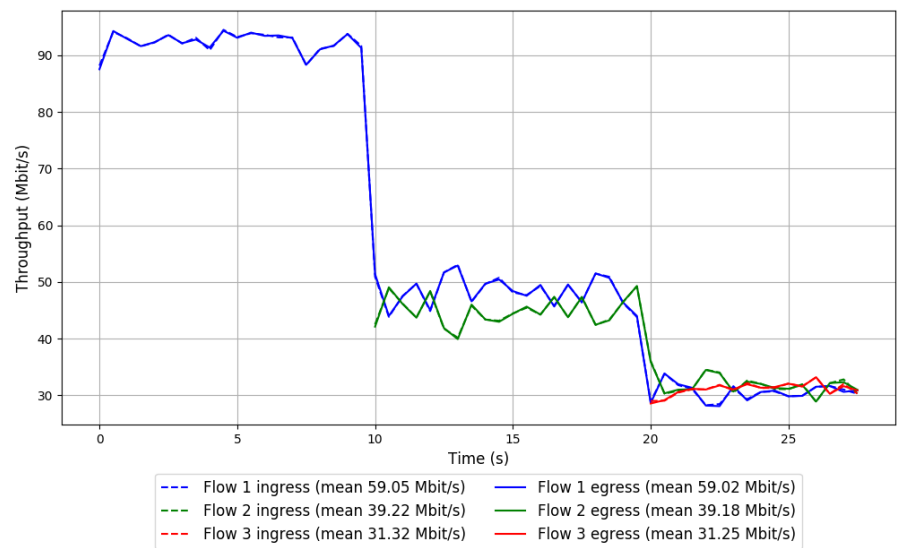
-- Flow 3:

Average throughput: 31.25 Mbit/s

95th percentile per-packet one-way delay: 10.735 ms

Loss rate: 0.00%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-01-02 11:16:11

End at: 2018-01-02 11:16:41

Local clock offset: -0.445 ms

Remote clock offset: 0.587 ms

Below is generated by plot.py at 2018-01-02 13:36:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.96 Mbit/s

95th percentile per-packet one-way delay: 9.276 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 57.70 Mbit/s

95th percentile per-packet one-way delay: 5.595 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 39.17 Mbit/s

95th percentile per-packet one-way delay: 7.444 ms

Loss rate: 0.00%

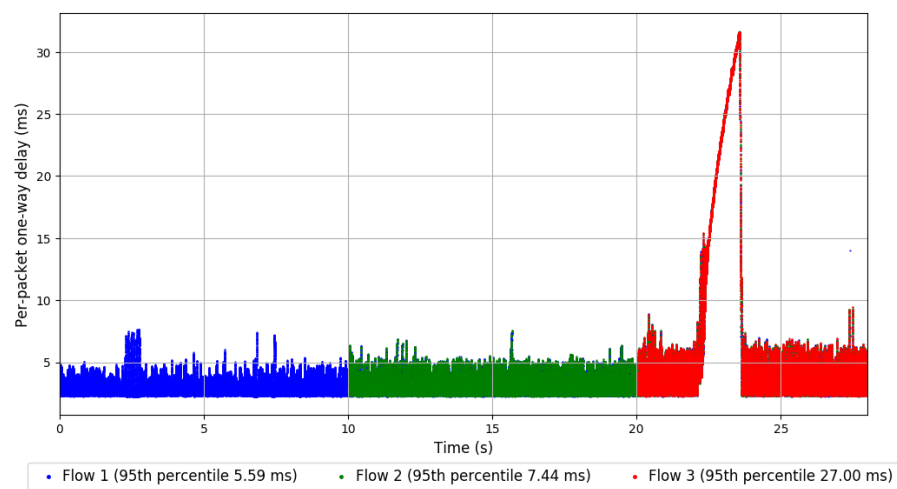
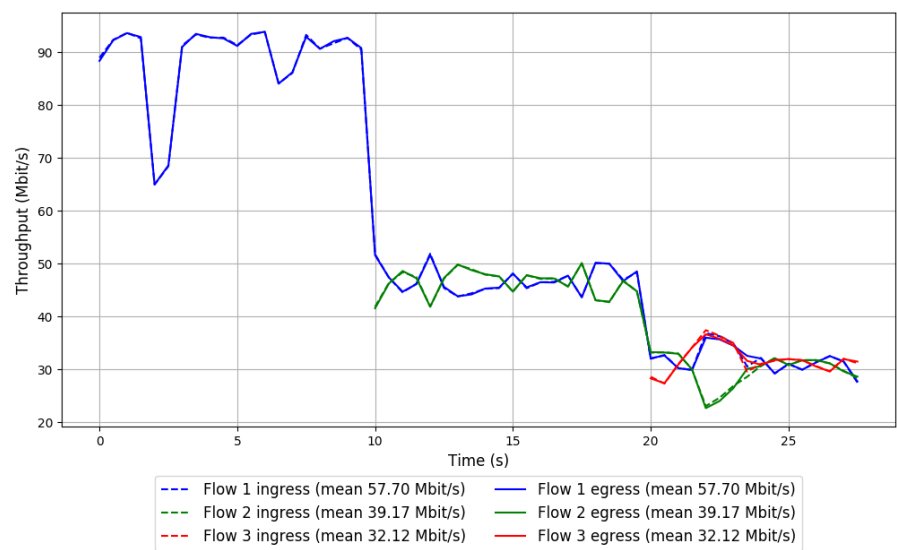
-- Flow 3:

Average throughput: 32.12 Mbit/s

95th percentile per-packet one-way delay: 27.003 ms

Loss rate: 0.00%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-01-02 11:33:17

End at: 2018-01-02 11:33:47

Local clock offset: -0.485 ms

Remote clock offset: 0.554 ms

Below is generated by plot.py at 2018-01-02 13:36:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.55 Mbit/s

95th percentile per-packet one-way delay: 20.629 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 58.07 Mbit/s

95th percentile per-packet one-way delay: 9.798 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 40.69 Mbit/s

95th percentile per-packet one-way delay: 22.935 ms

Loss rate: 0.00%

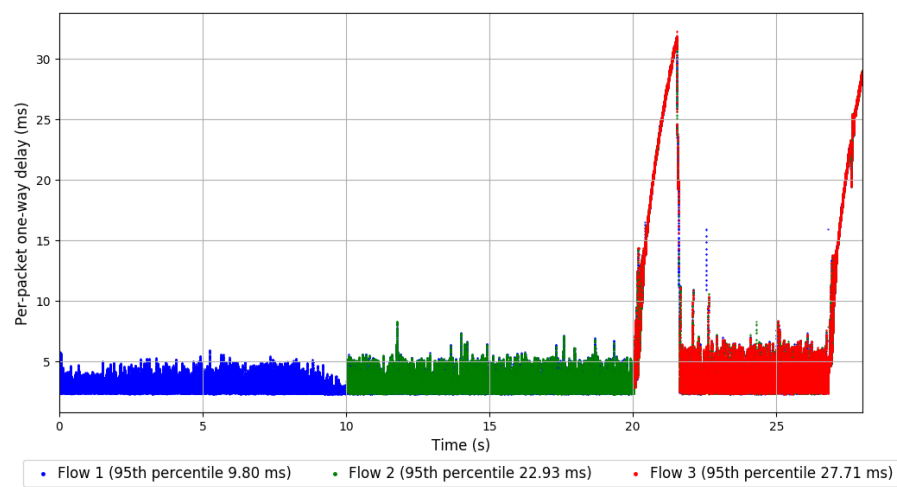
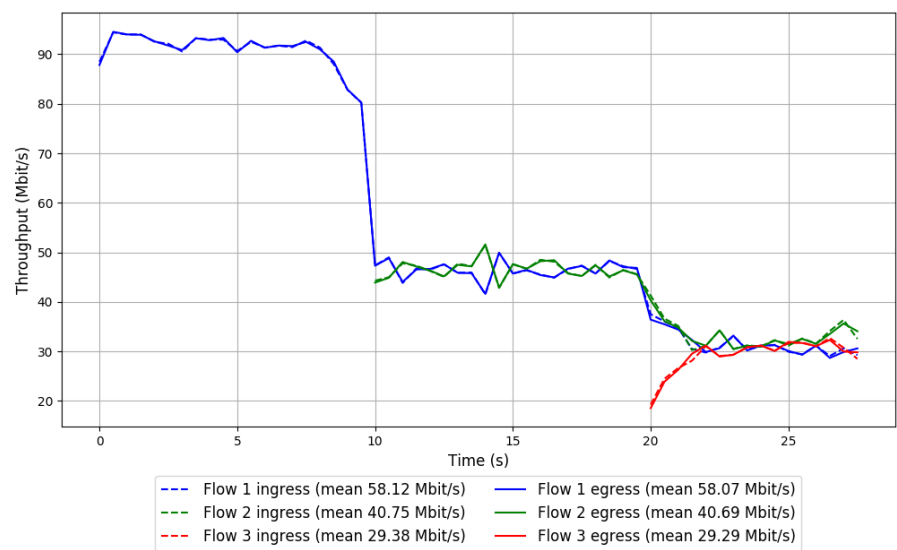
-- Flow 3:

Average throughput: 29.29 Mbit/s

95th percentile per-packet one-way delay: 27.711 ms

Loss rate: 0.00%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-01-02 11:50:21

End at: 2018-01-02 11:50:51

Local clock offset: -0.424 ms

Remote clock offset: 0.505 ms

Below is generated by plot.py at 2018-01-02 13:36:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.49 Mbit/s

95th percentile per-packet one-way delay: 5.333 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 58.46 Mbit/s

95th percentile per-packet one-way delay: 4.979 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 39.28 Mbit/s

95th percentile per-packet one-way delay: 5.451 ms

Loss rate: 0.00%

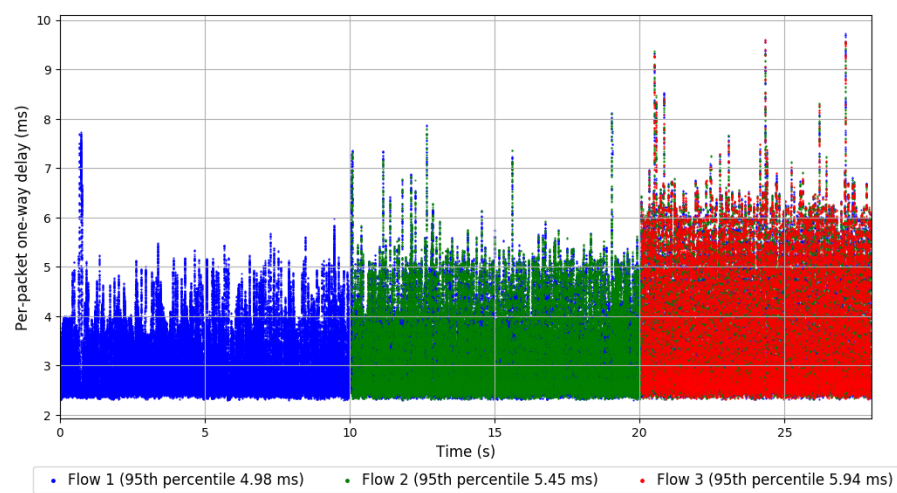
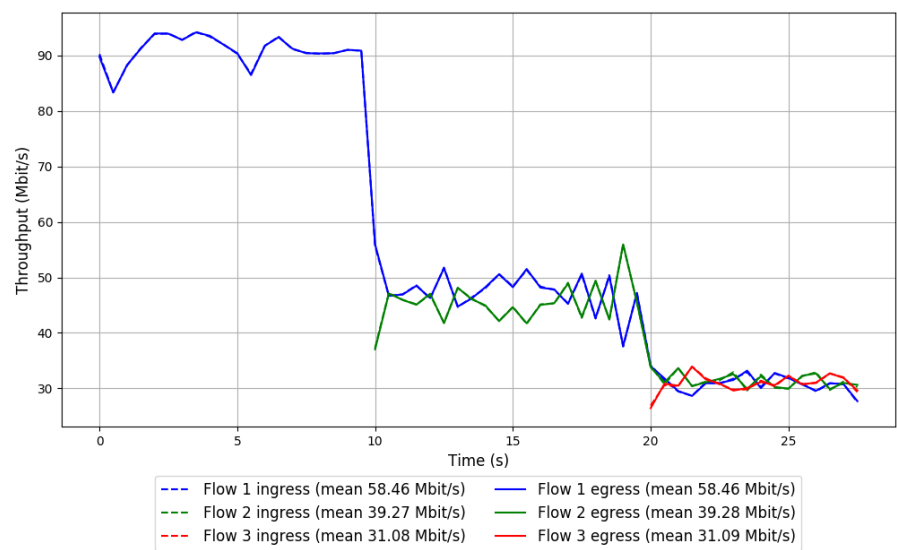
-- Flow 3:

Average throughput: 31.09 Mbit/s

95th percentile per-packet one-way delay: 5.940 ms

Loss rate: 0.00%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-01-02 12:07:30

End at: 2018-01-02 12:08:00

Local clock offset: -0.352 ms

Remote clock offset: 0.5 ms

Below is generated by plot.py at 2018-01-02 13:36:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.61 Mbit/s

95th percentile per-packet one-way delay: 5.233 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 58.35 Mbit/s

95th percentile per-packet one-way delay: 4.878 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 39.59 Mbit/s

95th percentile per-packet one-way delay: 5.394 ms

Loss rate: 0.00%

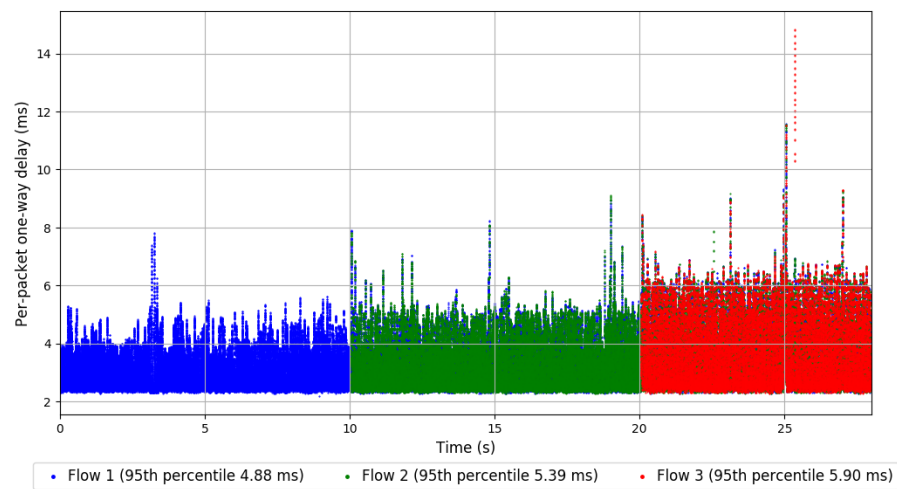
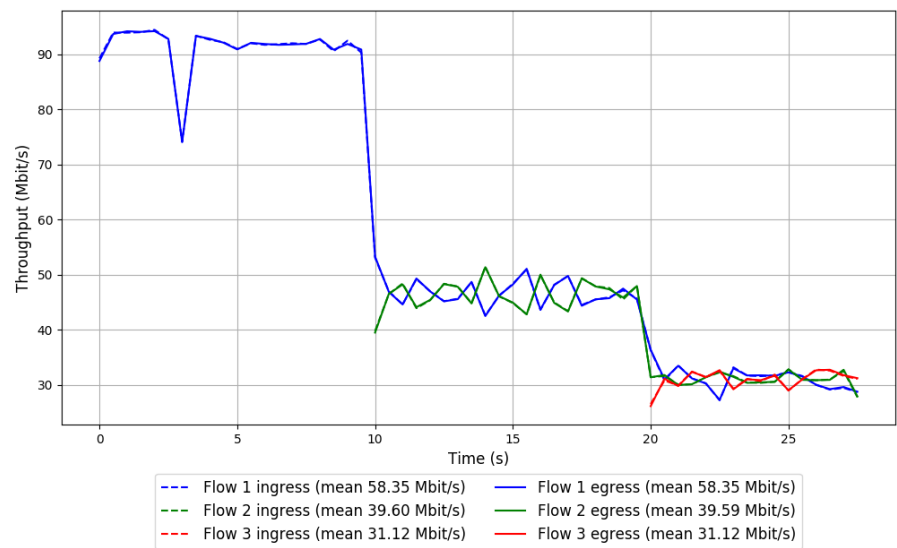
-- Flow 3:

Average throughput: 31.12 Mbit/s

95th percentile per-packet one-way delay: 5.898 ms

Loss rate: 0.00%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-01-02 12:24:34

End at: 2018-01-02 12:25:04

Local clock offset: -0.348 ms

Remote clock offset: 0.404 ms

Below is generated by plot.py at 2018-01-02 13:37:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.58 Mbit/s

95th percentile per-packet one-way delay: 5.239 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 58.13 Mbit/s

95th percentile per-packet one-way delay: 4.880 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 39.77 Mbit/s

95th percentile per-packet one-way delay: 5.372 ms

Loss rate: 0.00%

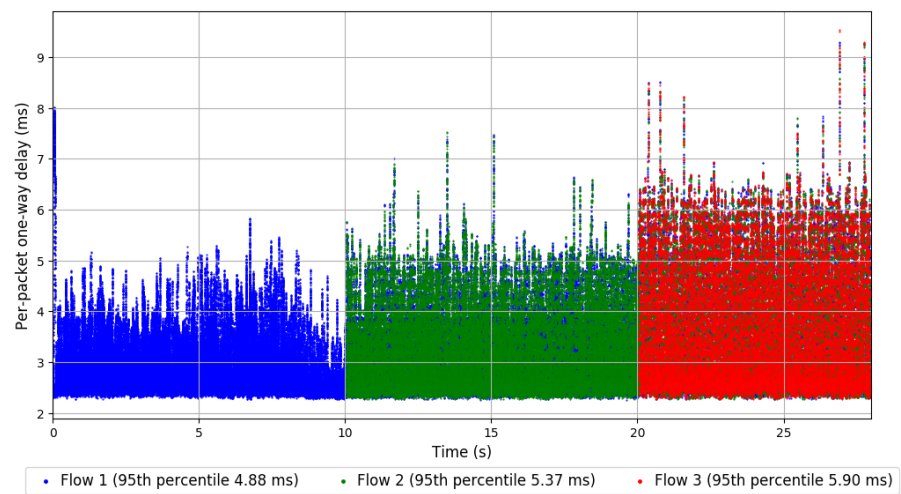
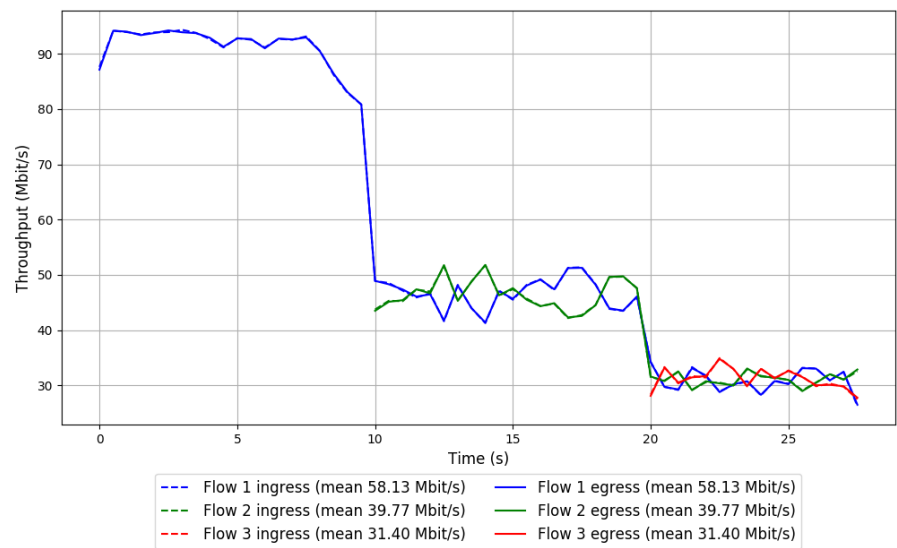
-- Flow 3:

Average throughput: 31.40 Mbit/s

95th percentile per-packet one-way delay: 5.897 ms

Loss rate: 0.00%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-01-02 12:41:43

End at: 2018-01-02 12:42:13

Local clock offset: -0.333 ms

Remote clock offset: 0.312 ms

Below is generated by plot.py at 2018-01-02 13:38:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.87 Mbit/s

95th percentile per-packet one-way delay: 5.276 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 58.82 Mbit/s

95th percentile per-packet one-way delay: 4.891 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 39.29 Mbit/s

95th percentile per-packet one-way delay: 5.434 ms

Loss rate: 0.00%

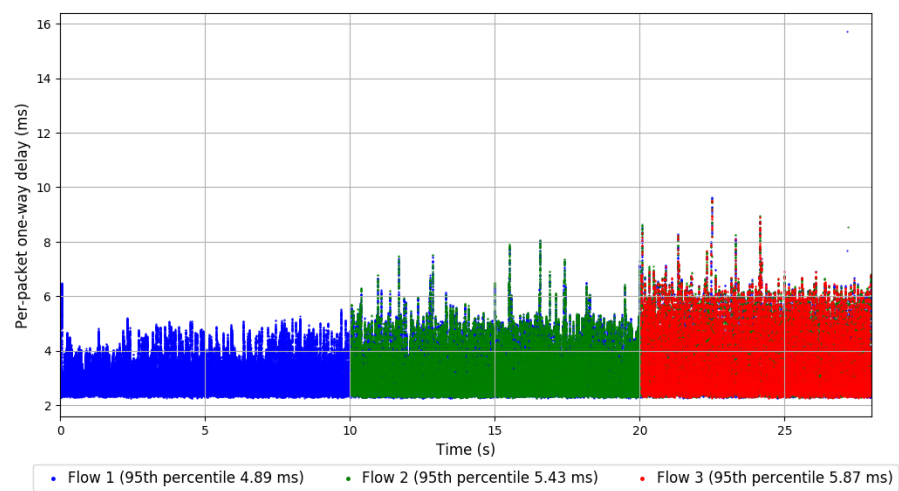
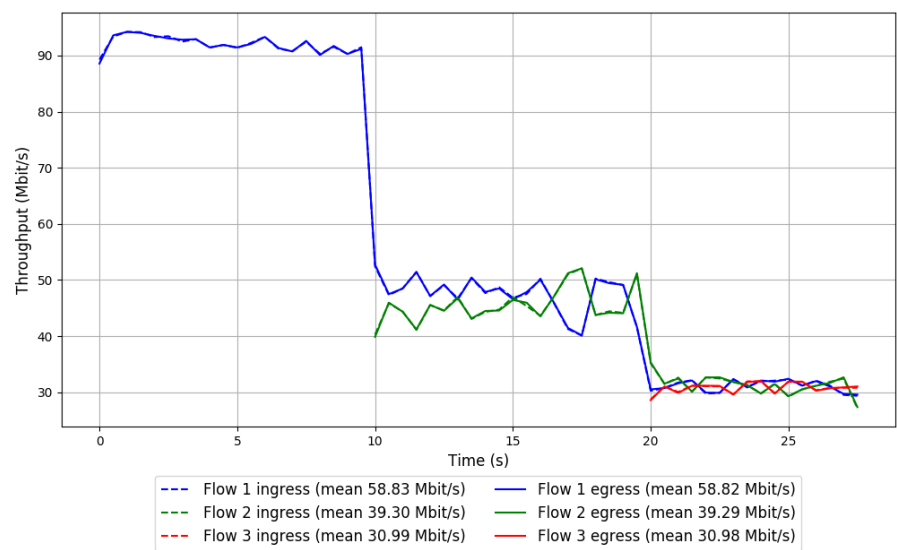
-- Flow 3:

Average throughput: 30.98 Mbit/s

95th percentile per-packet one-way delay: 5.870 ms

Loss rate: 0.00%

Run 10: Report of Copa — Data Link

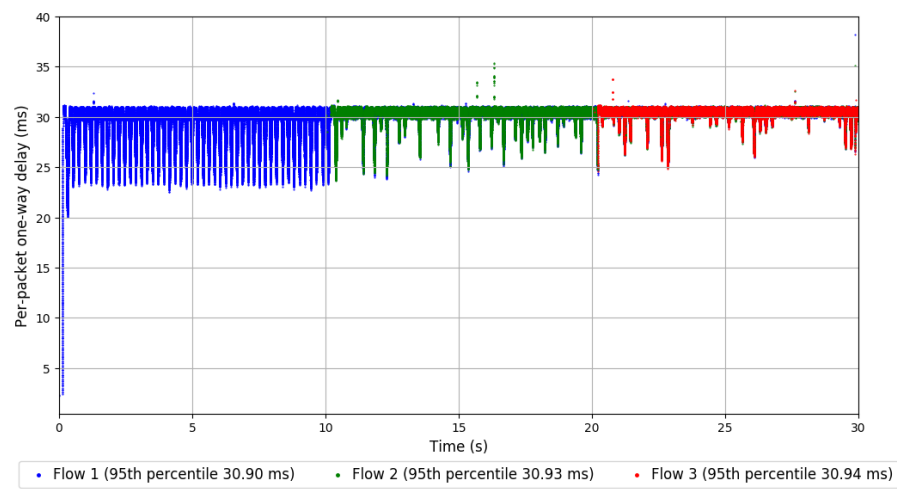
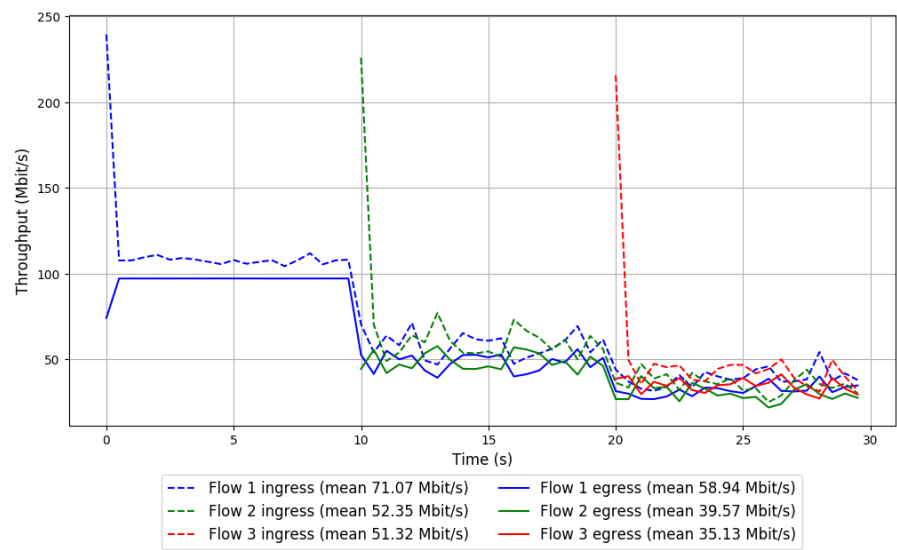


```
Run 1: Statistics of FillP

Start at: 2018-01-02 10:11:22
End at: 2018-01-02 10:11:52
Local clock offset: -0.398 ms
Remote clock offset: 0.735 ms

# Below is generated by plot.py at 2018-01-02 13:38:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.89 Mbit/s
95th percentile per-packet one-way delay: 30.913 ms
Loss rate: 21.11%
-- Flow 1:
Average throughput: 58.94 Mbit/s
95th percentile per-packet one-way delay: 30.900 ms
Loss rate: 16.99%
-- Flow 2:
Average throughput: 39.57 Mbit/s
95th percentile per-packet one-way delay: 30.925 ms
Loss rate: 24.41%
-- Flow 3:
Average throughput: 35.13 Mbit/s
95th percentile per-packet one-way delay: 30.937 ms
Loss rate: 31.55%
```

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-01-02 10:28:26

End at: 2018-01-02 10:28:56

Local clock offset: -0.425 ms

Remote clock offset: 0.618 ms

Below is generated by plot.py at 2018-01-02 13:38:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.90 Mbit/s

95th percentile per-packet one-way delay: 30.852 ms

Loss rate: 20.22%

-- Flow 1:

Average throughput: 56.68 Mbit/s

95th percentile per-packet one-way delay: 30.837 ms

Loss rate: 16.43%

-- Flow 2:

Average throughput: 42.71 Mbit/s

95th percentile per-packet one-way delay: 30.857 ms

Loss rate: 22.83%

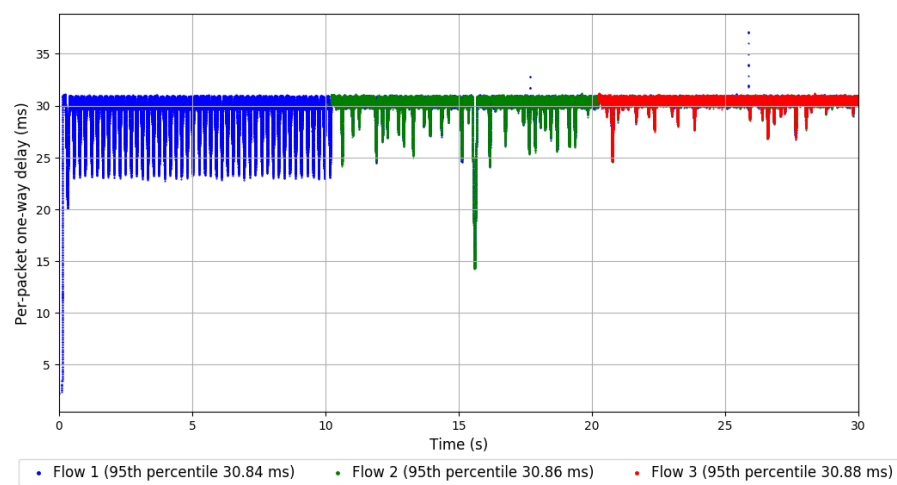
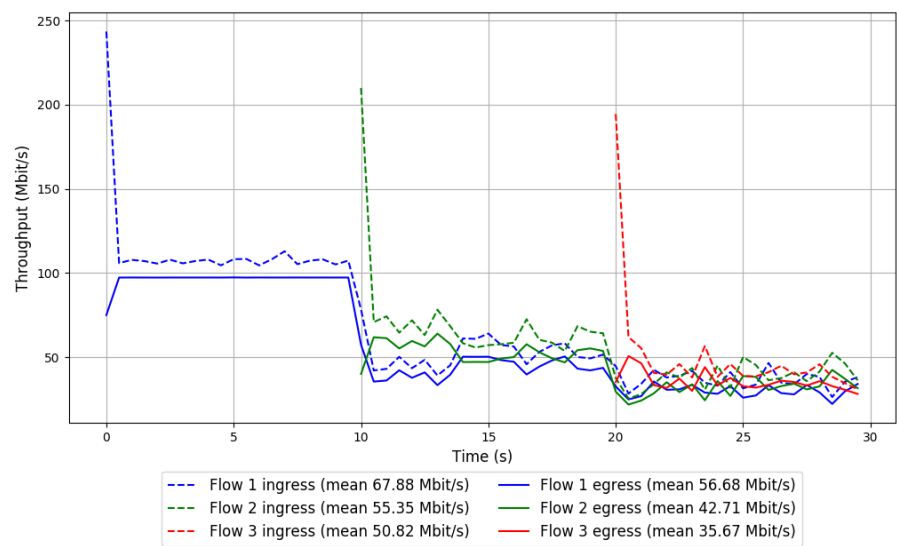
-- Flow 3:

Average throughput: 35.67 Mbit/s

95th percentile per-packet one-way delay: 30.883 ms

Loss rate: 29.80%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-01-02 10:45:31

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

Local clock offset: -0.421 ms

Remote clock offset: 0.62 ms

Below is generated by plot.py at 2018-01-02 13:38:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.90 Mbit/s

95th percentile per-packet one-way delay: 30.904 ms

Loss rate: 21.27%

-- Flow 1:

Average throughput: 59.46 Mbit/s

95th percentile per-packet one-way delay: 30.887 ms

Loss rate: 17.57%

-- Flow 2:

Average throughput: 39.92 Mbit/s

95th percentile per-packet one-way delay: 30.919 ms

Loss rate: 24.04%

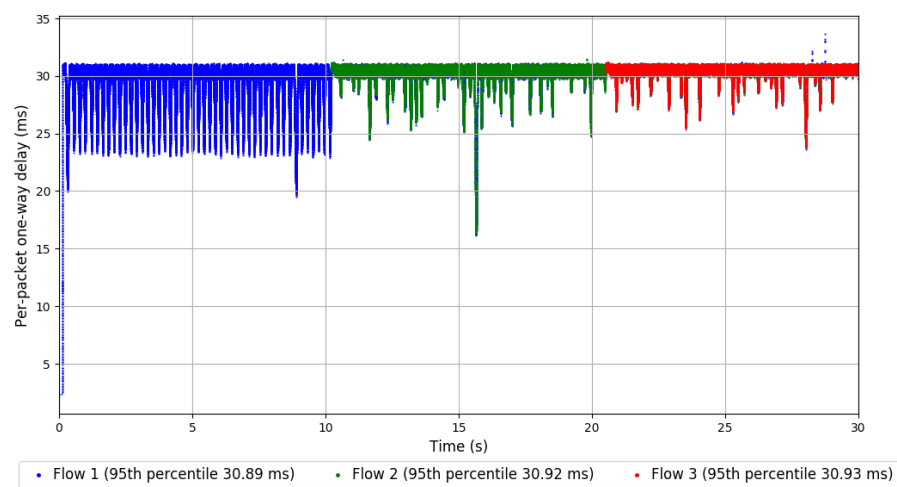
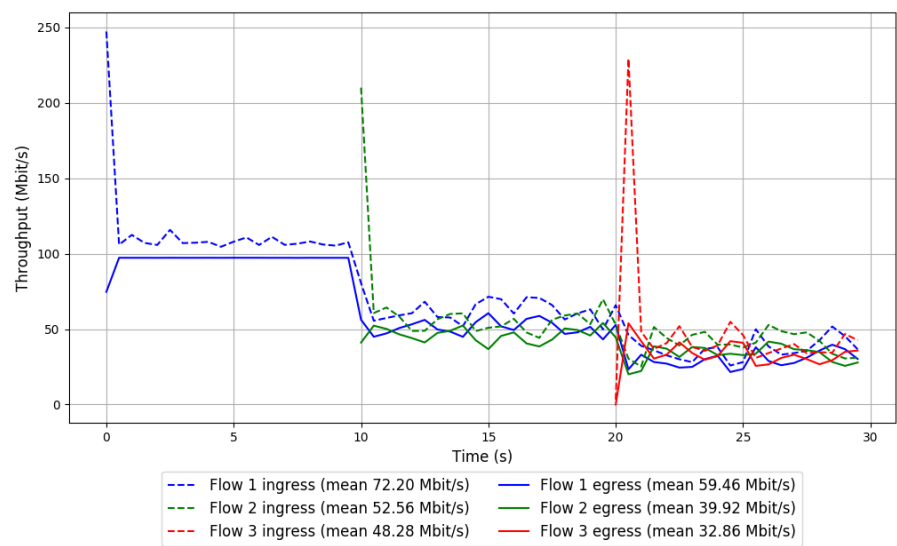
-- Flow 3:

Average throughput: 32.86 Mbit/s

95th percentile per-packet one-way delay: 30.929 ms

Loss rate: 31.93%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-01-02 11:02:35

End at: 2018-01-02 11:03:05

Local clock offset: -0.437 ms

Remote clock offset: 0.542 ms

Below is generated by plot.py at 2018-01-02 13:38:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.90 Mbit/s

95th percentile per-packet one-way delay: 30.848 ms

Loss rate: 21.53%

-- Flow 1:

Average throughput: 59.31 Mbit/s

95th percentile per-packet one-way delay: 30.832 ms

Loss rate: 17.41%

-- Flow 2:

Average throughput: 39.24 Mbit/s

95th percentile per-packet one-way delay: 30.863 ms

Loss rate: 25.07%

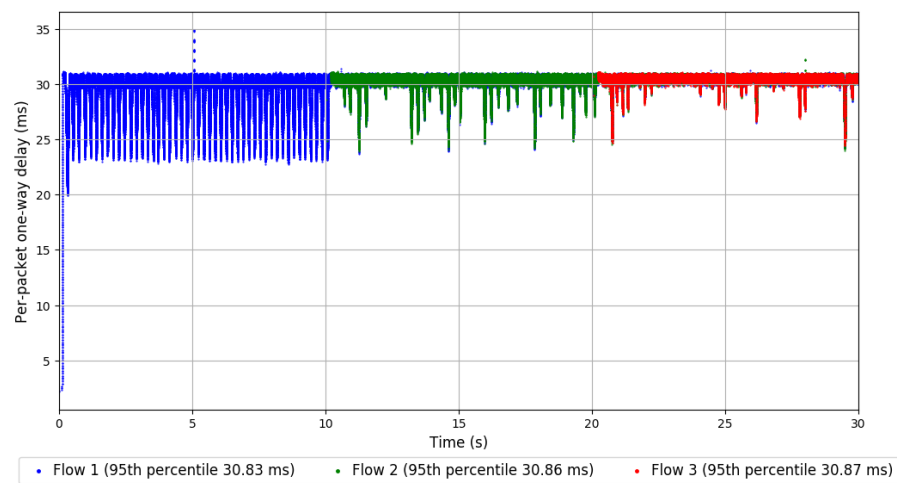
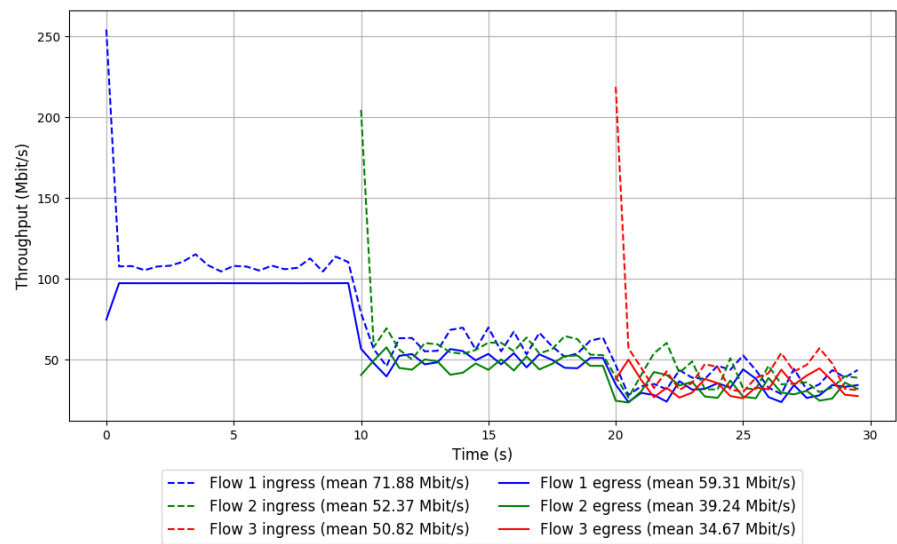
-- Flow 3:

Average throughput: 34.67 Mbit/s

95th percentile per-packet one-way delay: 30.869 ms

Loss rate: 31.78%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-01-02 11:19:40

End at: 2018-01-02 11:20:10

Local clock offset: -0.466 ms

Remote clock offset: 0.509 ms

Below is generated by plot.py at 2018-01-02 13:38:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.89 Mbit/s

95th percentile per-packet one-way delay: 30.870 ms

Loss rate: 20.56%

-- Flow 1:

Average throughput: 58.33 Mbit/s

95th percentile per-packet one-way delay: 30.854 ms

Loss rate: 16.85%

-- Flow 2:

Average throughput: 40.95 Mbit/s

95th percentile per-packet one-way delay: 30.881 ms

Loss rate: 23.65%

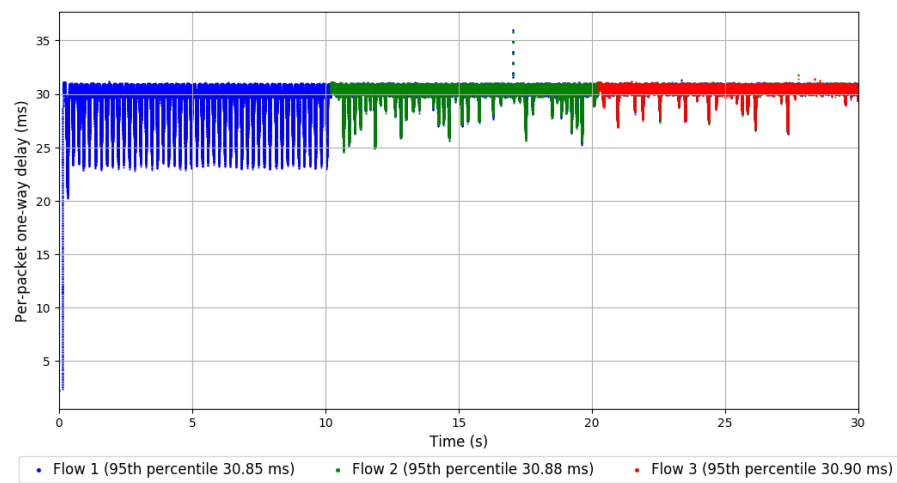
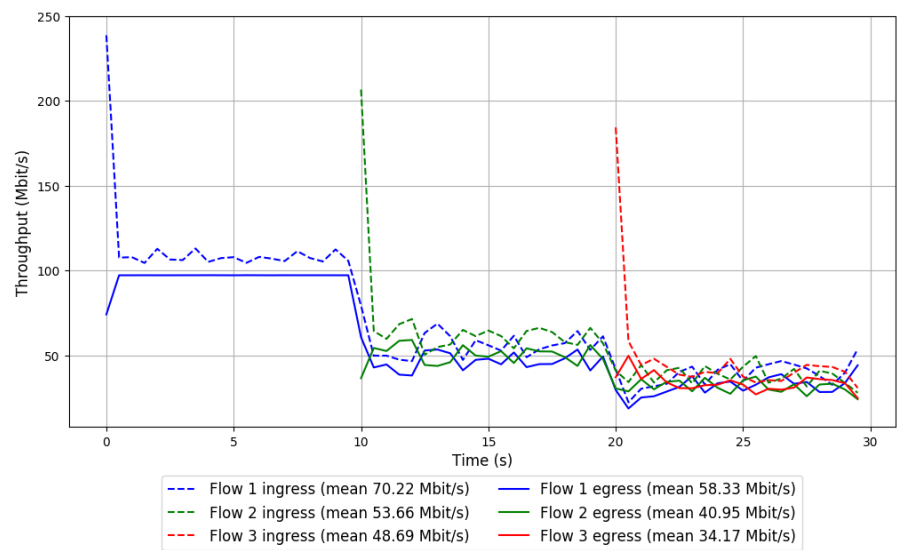
-- Flow 3:

Average throughput: 34.17 Mbit/s

95th percentile per-packet one-way delay: 30.901 ms

Loss rate: 29.81%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-01-02 11:36:45

End at: 2018-01-02 11:37:15

Local clock offset: -0.42 ms

Remote clock offset: 0.492 ms

Below is generated by plot.py at 2018-01-02 13:38:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.71 Mbit/s

95th percentile per-packet one-way delay: 30.874 ms

Loss rate: 21.18%

-- Flow 1:

Average throughput: 58.49 Mbit/s

95th percentile per-packet one-way delay: 30.860 ms

Loss rate: 17.43%

-- Flow 2:

Average throughput: 40.56 Mbit/s

95th percentile per-packet one-way delay: 30.885 ms

Loss rate: 23.98%

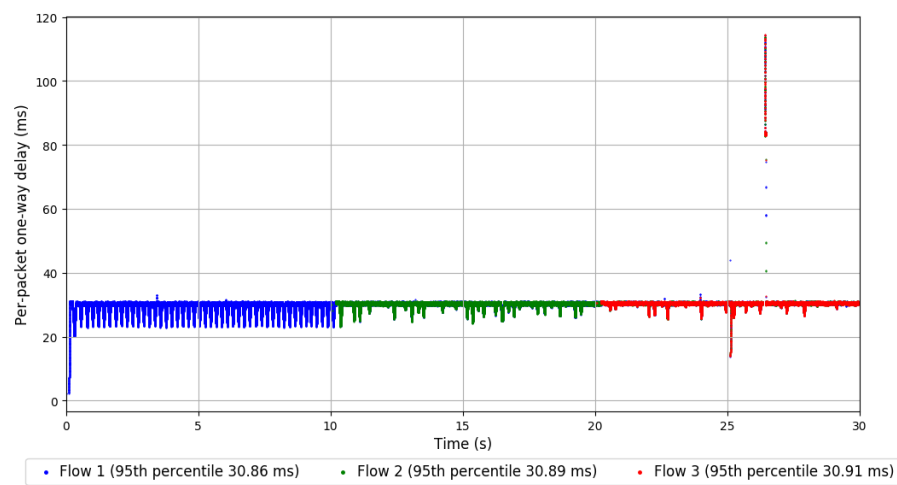
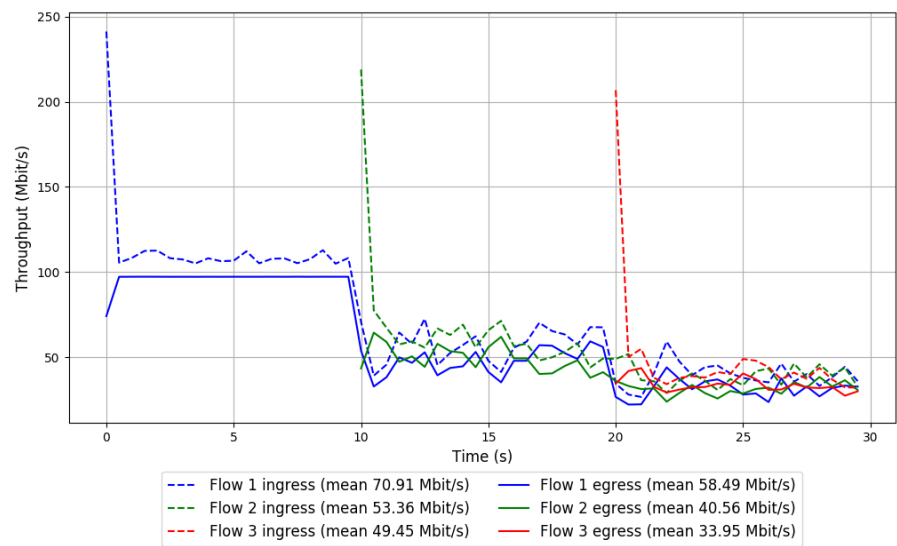
-- Flow 3:

Average throughput: 33.95 Mbit/s

95th percentile per-packet one-way delay: 30.906 ms

Loss rate: 31.35%

Run 6: Report of FillP — Data Link

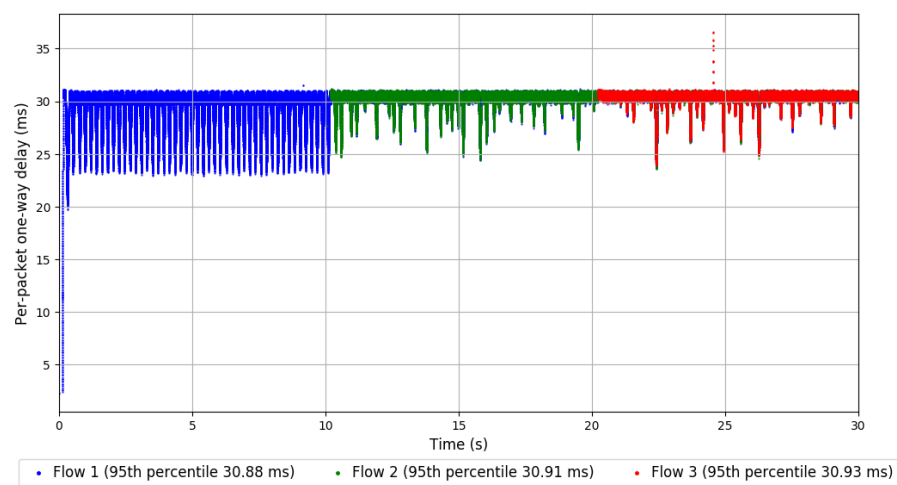
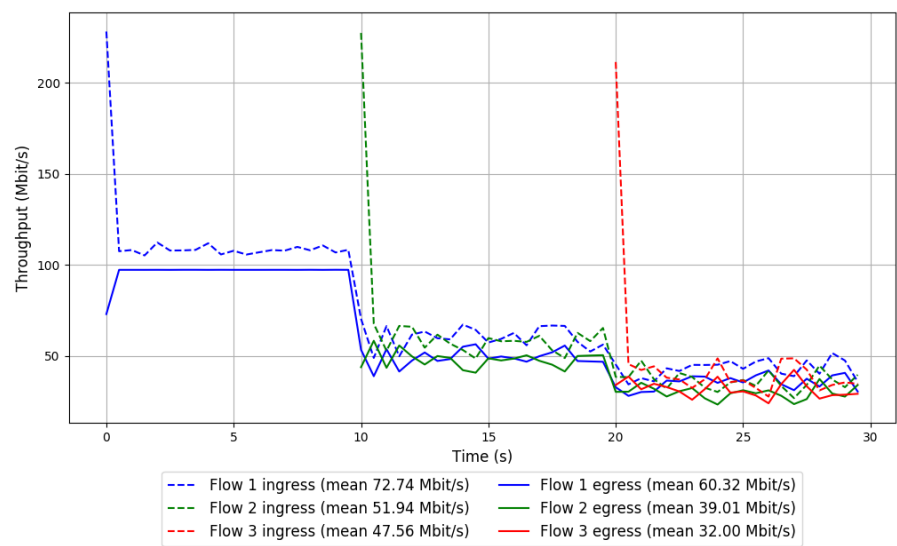


Run 7: Statistics of FillP

Start at: 2018-01-02 11:53:50
End at: 2018-01-02 11:54:20
Local clock offset: -0.353 ms
Remote clock offset: 0.49 ms

Below is generated by plot.py at 2018-01-02 13:39:06
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.87 Mbit/s
95th percentile per-packet one-way delay: 30.900 ms
Loss rate: 21.22%
-- Flow 1:
Average throughput: 60.32 Mbit/s
95th percentile per-packet one-way delay: 30.884 ms
Loss rate: 16.99%
-- Flow 2:
Average throughput: 39.01 Mbit/s
95th percentile per-packet one-way delay: 30.914 ms
Loss rate: 24.88%
-- Flow 3:
Average throughput: 32.00 Mbit/s
95th percentile per-packet one-way delay: 30.926 ms
Loss rate: 32.71%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-01-02 12:10:58

End at: 2018-01-02 12:11:28

Local clock offset: -0.349 ms

Remote clock offset: 0.409 ms

Below is generated by plot.py at 2018-01-02 13:39:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.89 Mbit/s

95th percentile per-packet one-way delay: 30.864 ms

Loss rate: 21.26%

-- Flow 1:

Average throughput: 57.48 Mbit/s

95th percentile per-packet one-way delay: 30.851 ms

Loss rate: 17.77%

-- Flow 2:

Average throughput: 41.75 Mbit/s

95th percentile per-packet one-way delay: 30.874 ms

Loss rate: 23.24%

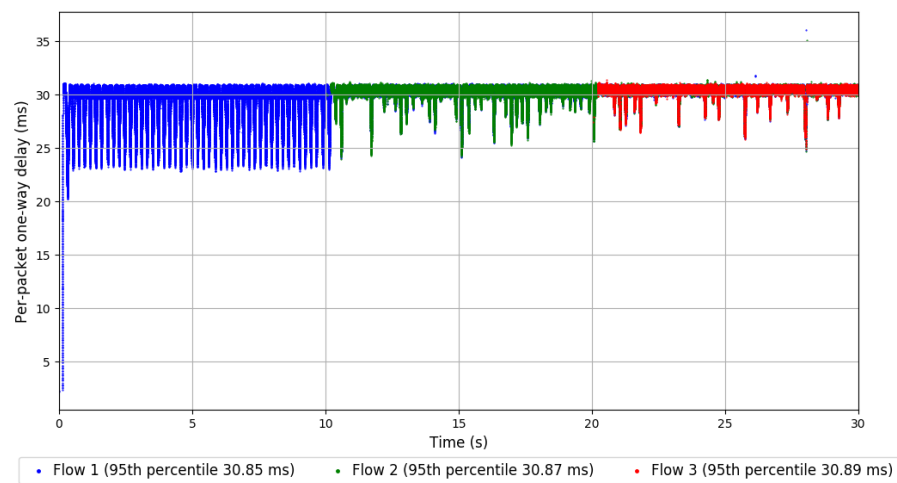
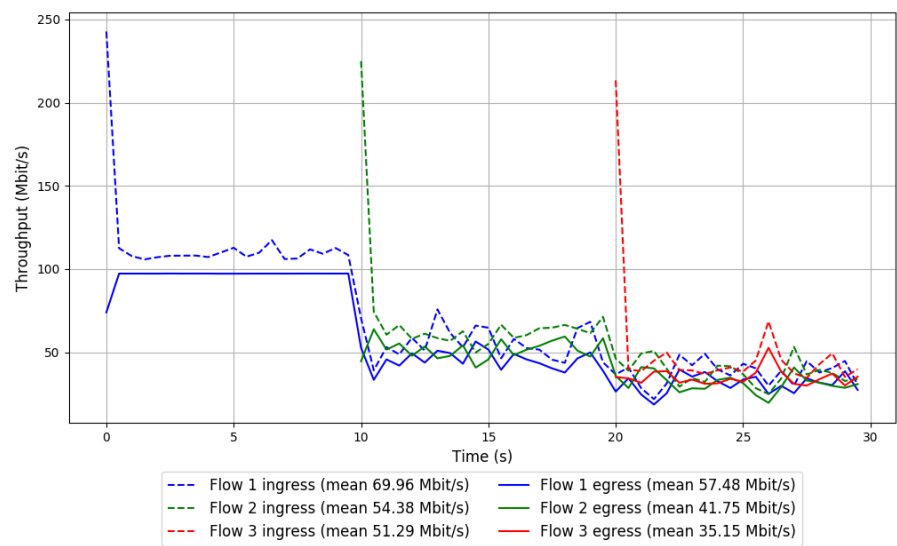
-- Flow 3:

Average throughput: 35.15 Mbit/s

95th percentile per-packet one-way delay: 30.887 ms

Loss rate: 31.45%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-01-02 12:28:03

End at: 2018-01-02 12:28:33

Local clock offset: -0.31 ms

Remote clock offset: 0.327 ms

Below is generated by plot.py at 2018-01-02 13:39:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.91 Mbit/s

95th percentile per-packet one-way delay: 30.836 ms

Loss rate: 21.55%

-- Flow 1:

Average throughput: 58.73 Mbit/s

95th percentile per-packet one-way delay: 30.821 ms

Loss rate: 17.82%

-- Flow 2:

Average throughput: 39.58 Mbit/s

95th percentile per-packet one-way delay: 30.849 ms

Loss rate: 24.31%

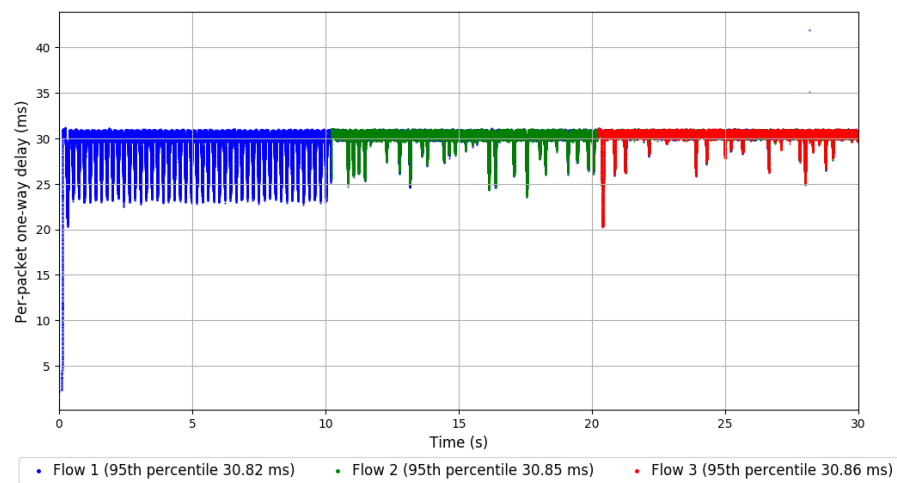
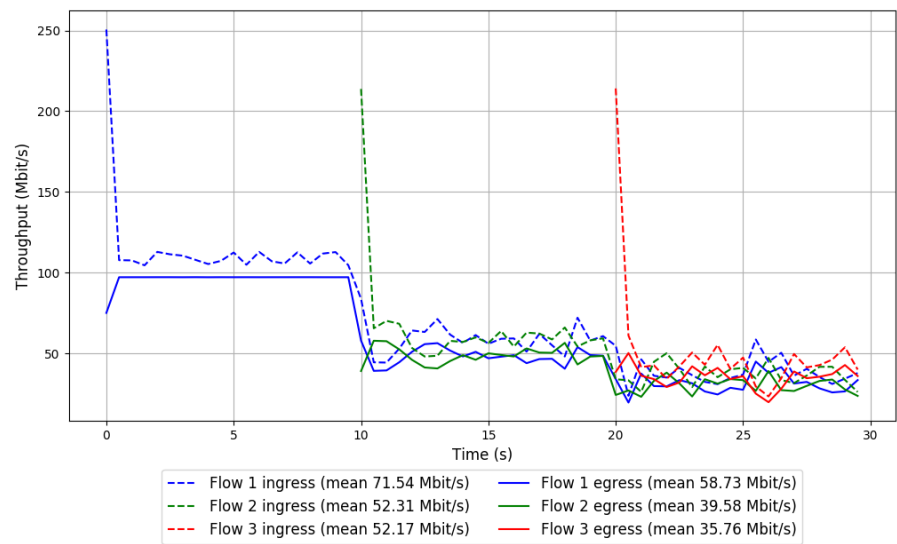
-- Flow 3:

Average throughput: 35.76 Mbit/s

95th percentile per-packet one-way delay: 30.861 ms

Loss rate: 31.42%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-01-02 12:45:11

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

Local clock offset: -0.305 ms

Remote clock offset: 0.27 ms

Below is generated by plot.py at 2018-01-02 13:39:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.91 Mbit/s

95th percentile per-packet one-way delay: 30.885 ms

Loss rate: 20.71%

-- Flow 1:

Average throughput: 58.70 Mbit/s

95th percentile per-packet one-way delay: 30.868 ms

Loss rate: 16.62%

-- Flow 2:

Average throughput: 40.20 Mbit/s

95th percentile per-packet one-way delay: 30.899 ms

Loss rate: 24.31%

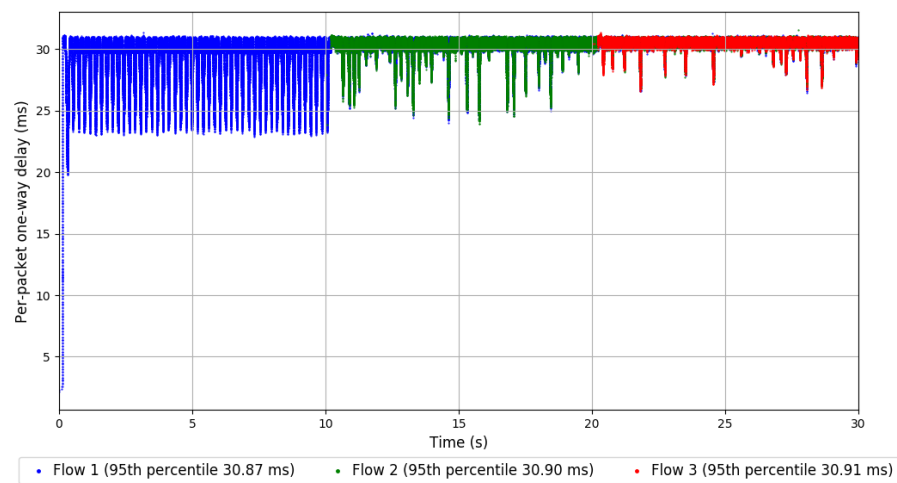
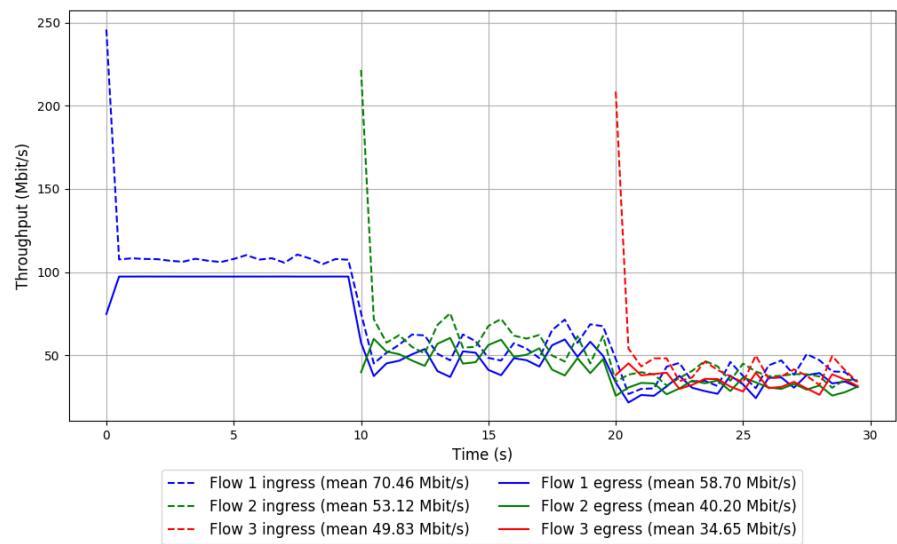
-- Flow 3:

Average throughput: 34.65 Mbit/s

95th percentile per-packet one-way delay: 30.913 ms

Loss rate: 30.47%

Run 10: Report of FillP — Data Link

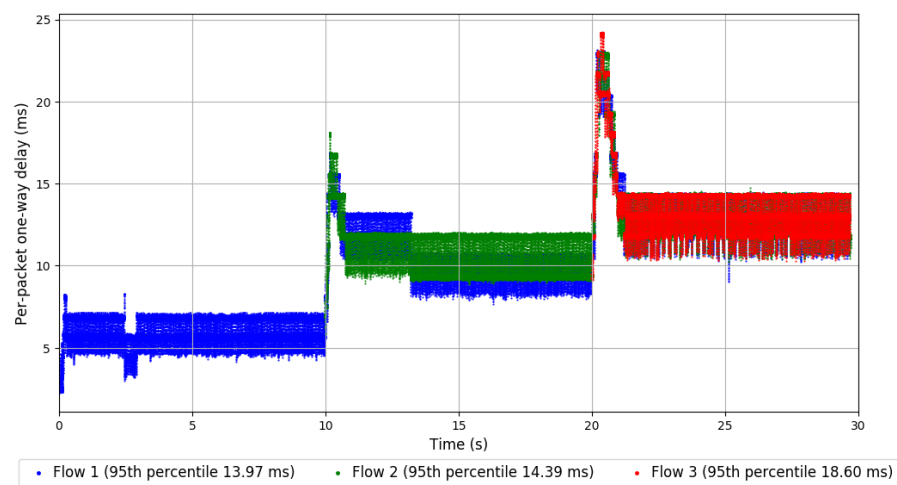
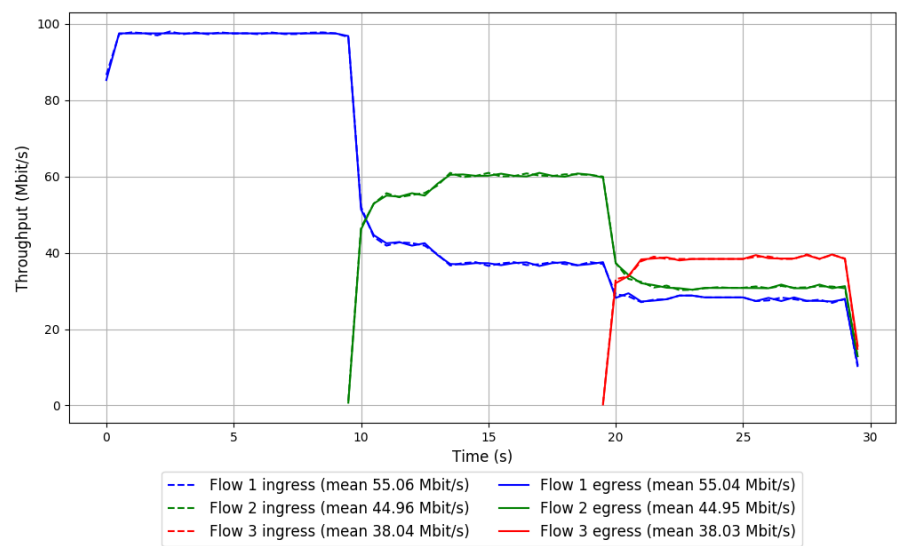


```
Run 1: Statistics of Indigo

Start at: 2018-01-02 10:20:25
End at: 2018-01-02 10:20:55
Local clock offset: -0.401 ms
Remote clock offset: 0.733 ms

# Below is generated by plot.py at 2018-01-02 13:39:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.33 Mbit/s
95th percentile per-packet one-way delay: 14.369 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 55.04 Mbit/s
95th percentile per-packet one-way delay: 13.975 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 44.95 Mbit/s
95th percentile per-packet one-way delay: 14.392 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 38.03 Mbit/s
95th percentile per-packet one-way delay: 18.598 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2018-01-02 10:37:29

End at: 2018-01-02 10:37:59

Local clock offset: -0.465 ms

Remote clock offset: 0.581 ms

Below is generated by plot.py at 2018-01-02 13:39:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.30 Mbit/s

95th percentile per-packet one-way delay: 14.111 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 55.76 Mbit/s

95th percentile per-packet one-way delay: 14.026 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 51.05 Mbit/s

95th percentile per-packet one-way delay: 14.149 ms

Loss rate: 0.00%

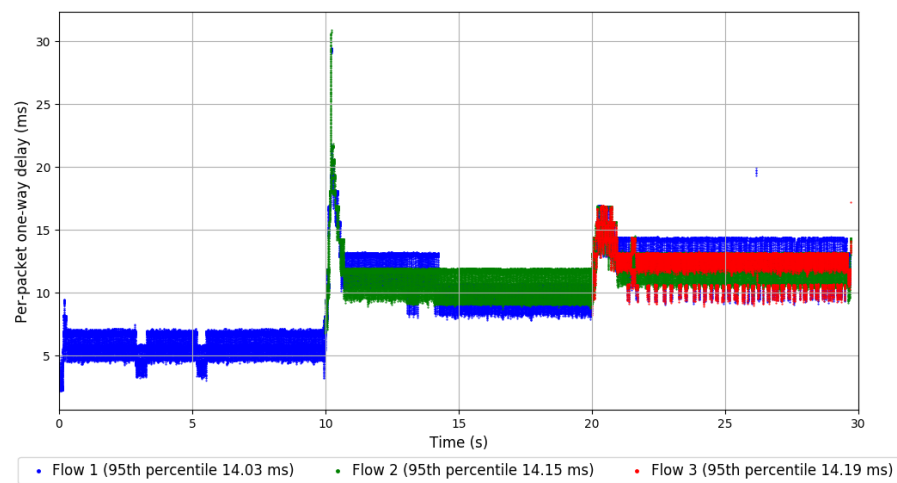
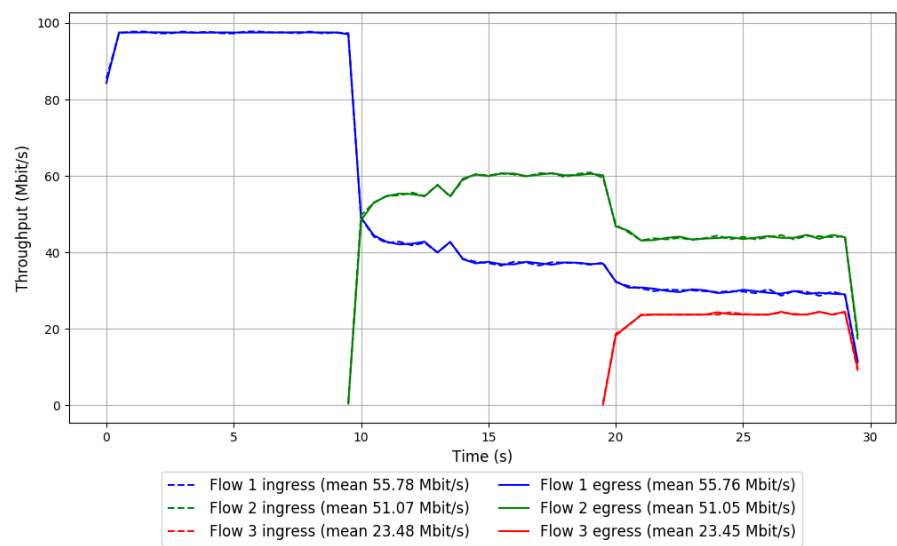
-- Flow 3:

Average throughput: 23.45 Mbit/s

95th percentile per-packet one-way delay: 14.192 ms

Loss rate: 0.00%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2018-01-02 10:54:33

End at: 2018-01-02 10:55:03

Local clock offset: -0.432 ms

Remote clock offset: 0.625 ms

Below is generated by plot.py at 2018-01-02 13:39:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.32 Mbit/s

95th percentile per-packet one-way delay: 14.178 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 58.21 Mbit/s

95th percentile per-packet one-way delay: 13.105 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 39.58 Mbit/s

95th percentile per-packet one-way delay: 14.315 ms

Loss rate: 0.00%

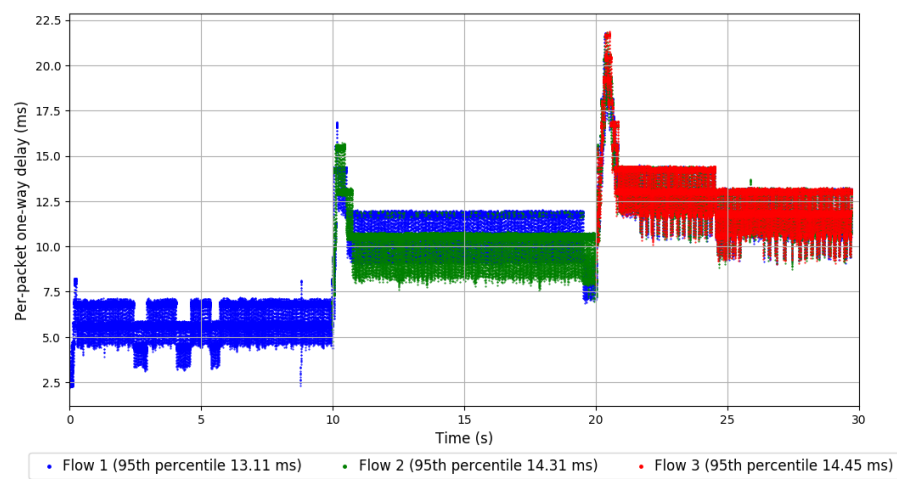
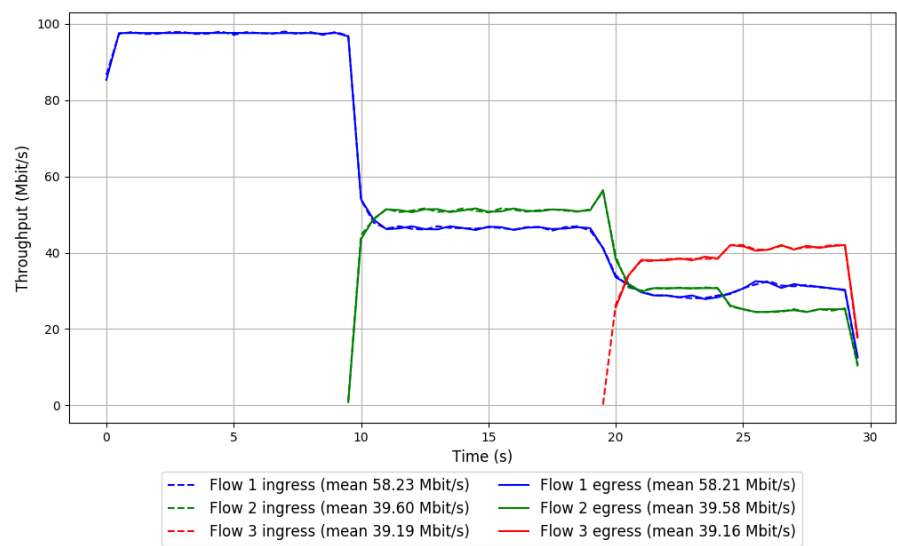
-- Flow 3:

Average throughput: 39.16 Mbit/s

95th percentile per-packet one-way delay: 14.453 ms

Loss rate: 0.00%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

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

End at: 2018-01-02 11:12:08

Local clock offset: -0.482 ms

Remote clock offset: 0.555 ms

Below is generated by plot.py at 2018-01-02 13:39:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.26 Mbit/s

95th percentile per-packet one-way delay: 14.661 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 55.78 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 40.81 Mbit/s

95th percentile per-packet one-way delay: 14.649 ms

Loss rate: 0.00%

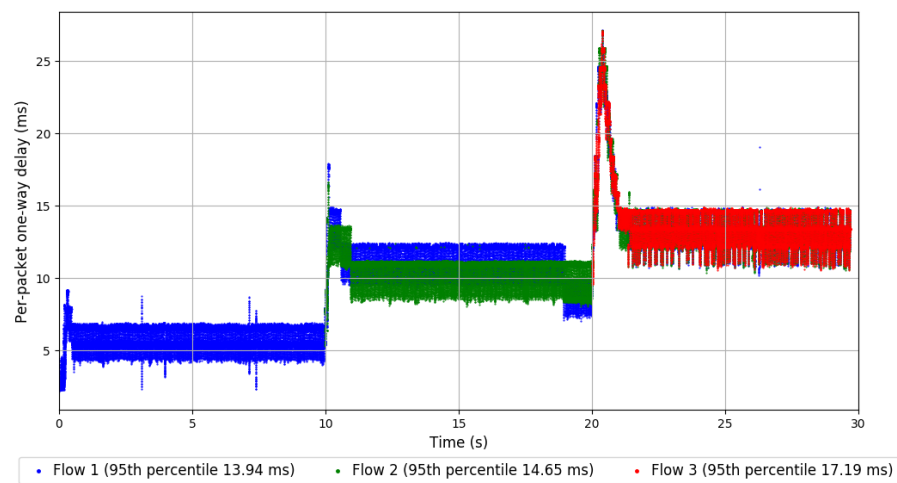
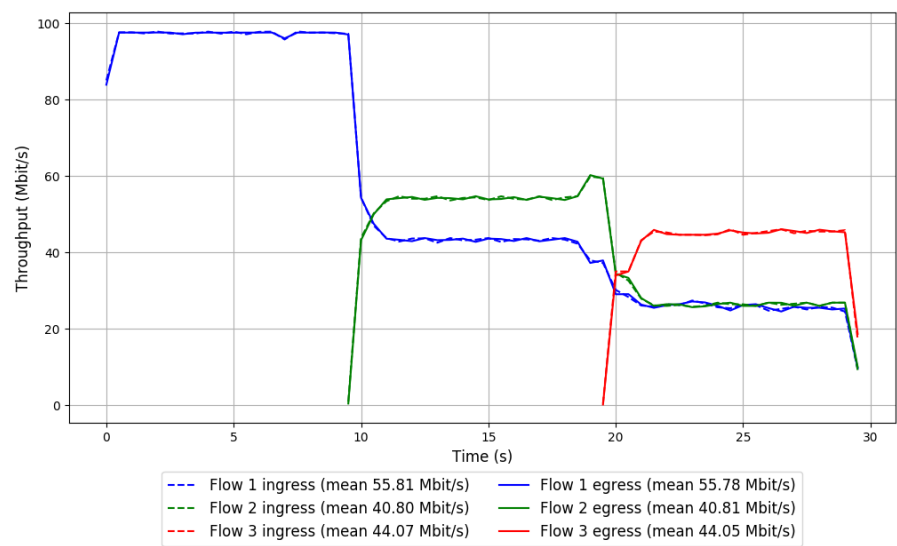
-- Flow 3:

Average throughput: 44.05 Mbit/s

95th percentile per-packet one-way delay: 17.192 ms

Loss rate: 0.00%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2018-01-02 11:28:43

End at: 2018-01-02 11:29:13

Local clock offset: -0.496 ms

Remote clock offset: 0.501 ms

Below is generated by plot.py at 2018-01-02 13:40:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.31 Mbit/s

95th percentile per-packet one-way delay: 14.962 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 57.04 Mbit/s

95th percentile per-packet one-way delay: 13.924 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 35.03 Mbit/s

95th percentile per-packet one-way delay: 14.903 ms

Loss rate: 0.00%

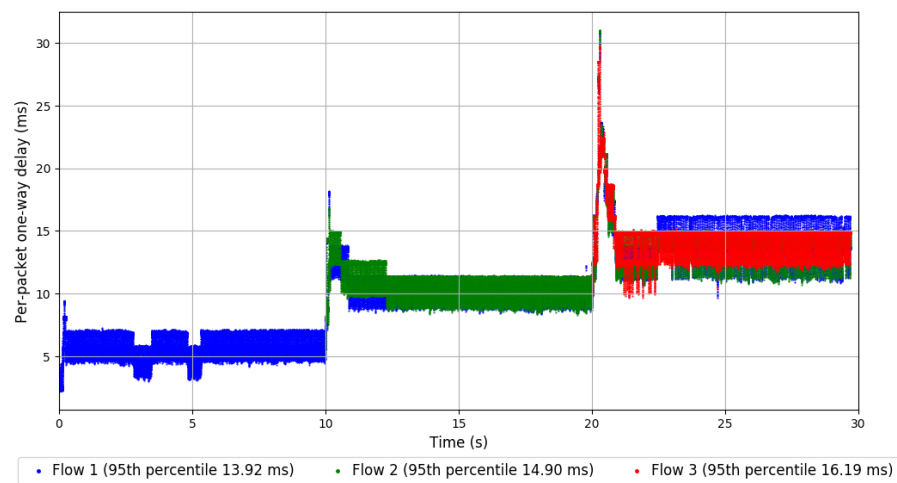
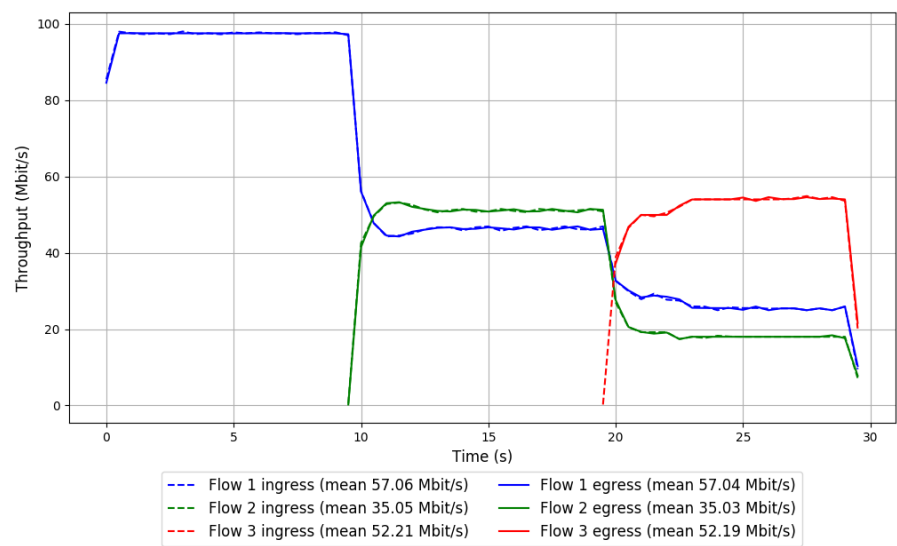
-- Flow 3:

Average throughput: 52.19 Mbit/s

95th percentile per-packet one-way delay: 16.192 ms

Loss rate: 0.00%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2018-01-02 11:45:48

End at: 2018-01-02 11:46:18

Local clock offset: -0.378 ms

Remote clock offset: 0.524 ms

Below is generated by plot.py at 2018-01-02 13:40:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.32 Mbit/s

95th percentile per-packet one-way delay: 14.845 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 55.36 Mbit/s

95th percentile per-packet one-way delay: 13.570 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 41.01 Mbit/s

95th percentile per-packet one-way delay: 14.928 ms

Loss rate: 0.00%

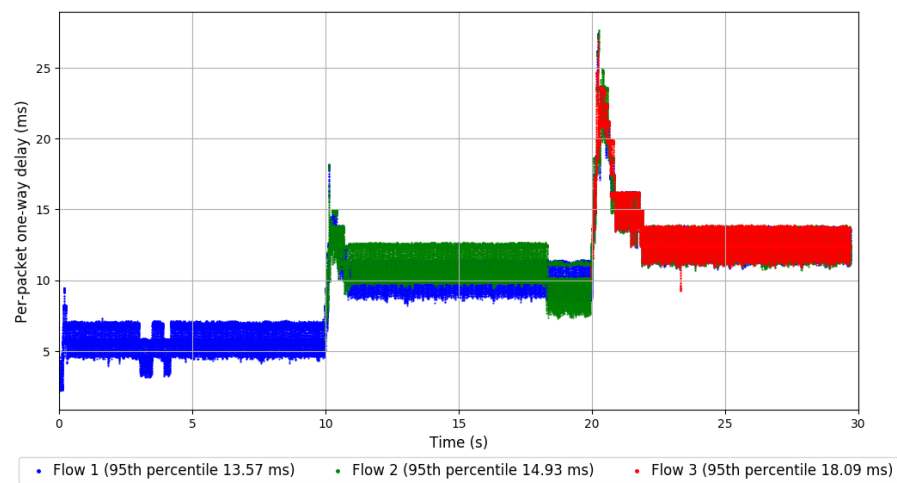
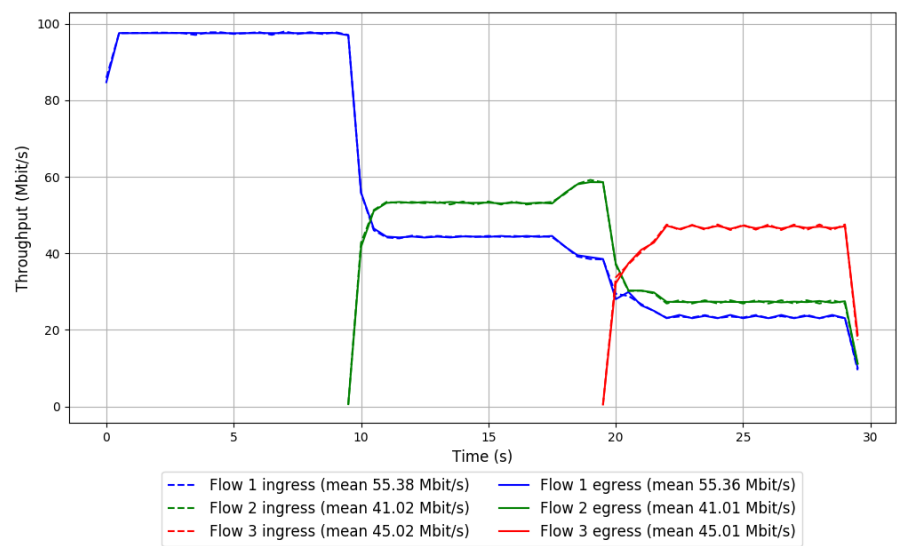
-- Flow 3:

Average throughput: 45.01 Mbit/s

95th percentile per-packet one-way delay: 18.095 ms

Loss rate: 0.00%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2018-01-02 12:02:56

End at: 2018-01-02 12:03:26

Local clock offset: -0.348 ms

Remote clock offset: 0.451 ms

Below is generated by plot.py at 2018-01-02 13:40:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.31 Mbit/s

95th percentile per-packet one-way delay: 13.387 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 56.42 Mbit/s

95th percentile per-packet one-way delay: 13.378 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 51.38 Mbit/s

95th percentile per-packet one-way delay: 13.143 ms

Loss rate: 0.00%

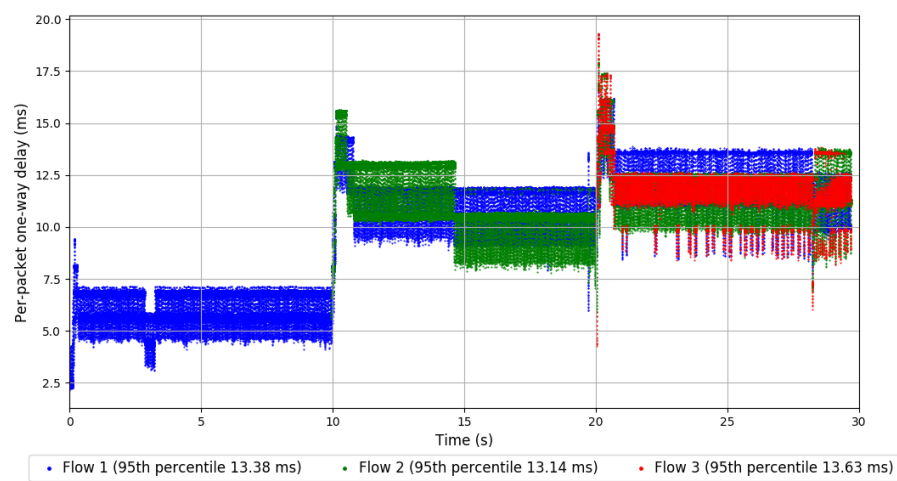
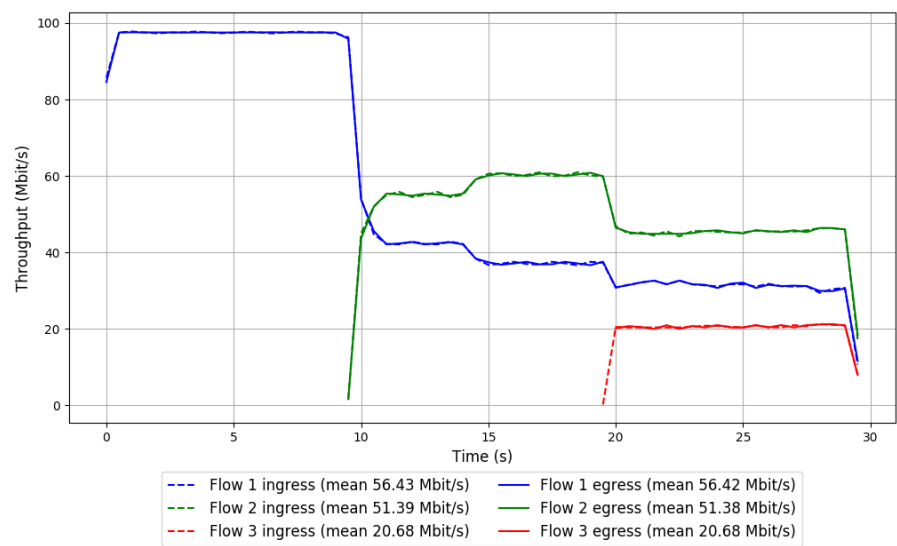
-- Flow 3:

Average throughput: 20.68 Mbit/s

95th percentile per-packet one-way delay: 13.630 ms

Loss rate: 0.00%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

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

End at: 2018-01-02 12:20:31

Local clock offset: -0.342 ms

Remote clock offset: 0.423 ms

Below is generated by plot.py at 2018-01-02 13:40:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.31 Mbit/s

95th percentile per-packet one-way delay: 14.922 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 55.28 Mbit/s

95th percentile per-packet one-way delay: 13.612 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 41.28 Mbit/s

95th percentile per-packet one-way delay: 15.693 ms

Loss rate: 0.00%

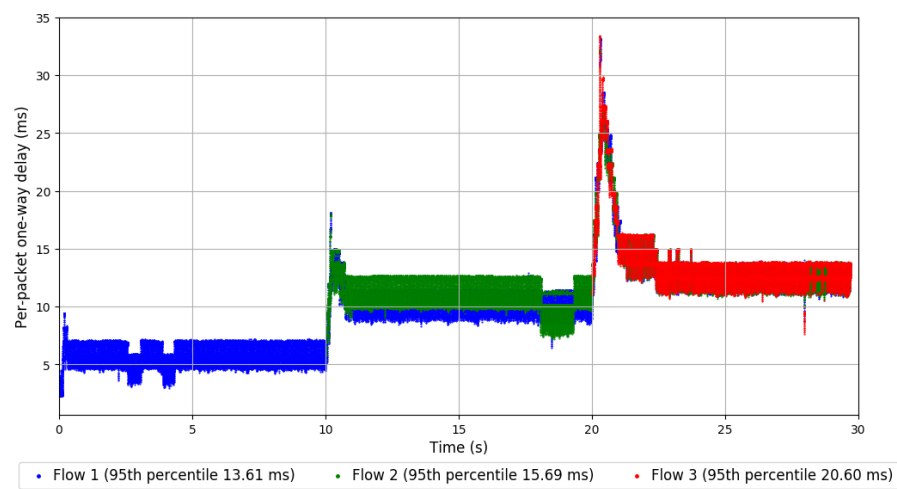
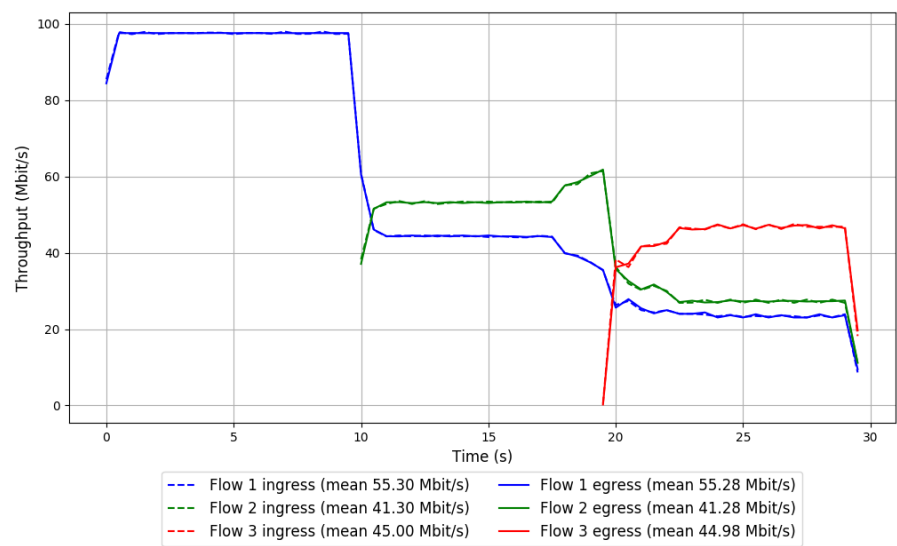
-- Flow 3:

Average throughput: 44.98 Mbit/s

95th percentile per-packet one-way delay: 20.599 ms

Loss rate: 0.03%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2018-01-02 12:37:09

End at: 2018-01-02 12:37:39

Local clock offset: -0.313 ms

Remote clock offset: 0.34 ms

Below is generated by plot.py at 2018-01-02 13:40:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.32 Mbit/s

95th percentile per-packet one-way delay: 15.381 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 57.16 Mbit/s

95th percentile per-packet one-way delay: 14.200 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 38.94 Mbit/s

95th percentile per-packet one-way delay: 15.608 ms

Loss rate: 0.01%

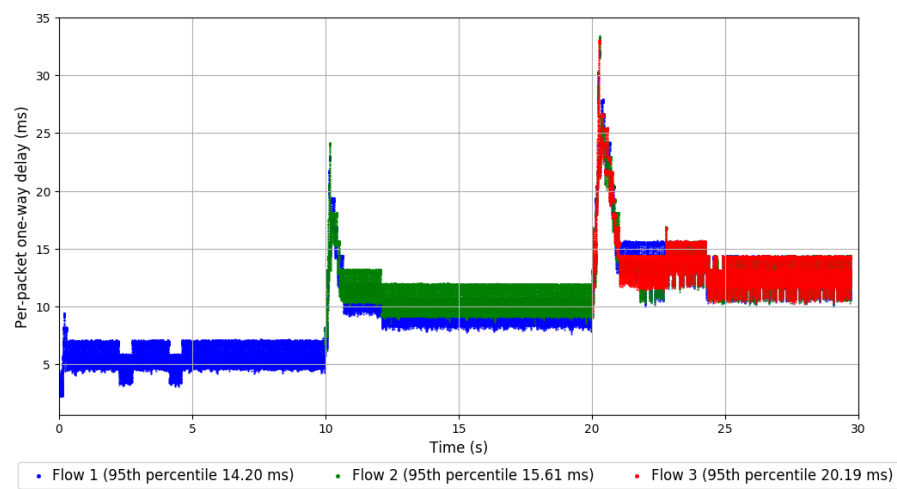
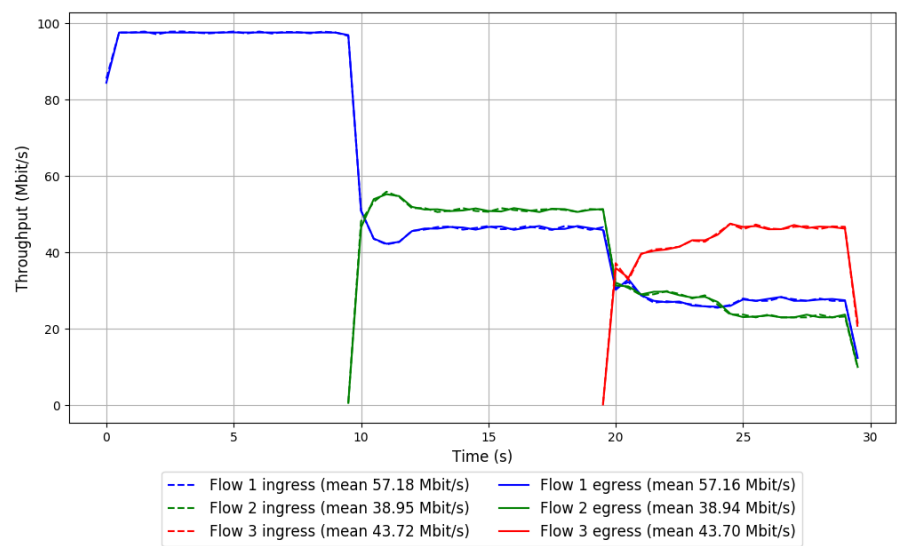
-- Flow 3:

Average throughput: 43.70 Mbit/s

95th percentile per-packet one-way delay: 20.186 ms

Loss rate: 0.00%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2018-01-02 12:54:14

End at: 2018-01-02 12:54:44

Local clock offset: -0.359 ms

Remote clock offset: 0.148 ms

Below is generated by plot.py at 2018-01-02 13:40:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.29 Mbit/s

95th percentile per-packet one-way delay: 14.307 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 55.76 Mbit/s

95th percentile per-packet one-way delay: 13.805 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 40.14 Mbit/s

95th percentile per-packet one-way delay: 14.292 ms

Loss rate: 0.00%

-- Flow 3:

Average throughput: 45.59 Mbit/s

95th percentile per-packet one-way delay: 15.595 ms

Loss rate: 0.00%

Run 10: Report of Indigo — Data Link

