

Pantheon Report

Generated at 2018-01-02 23:04:24 (UTC).

Data path: GCE Iowa Ethernet (*local*) → GCE Sydney 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.

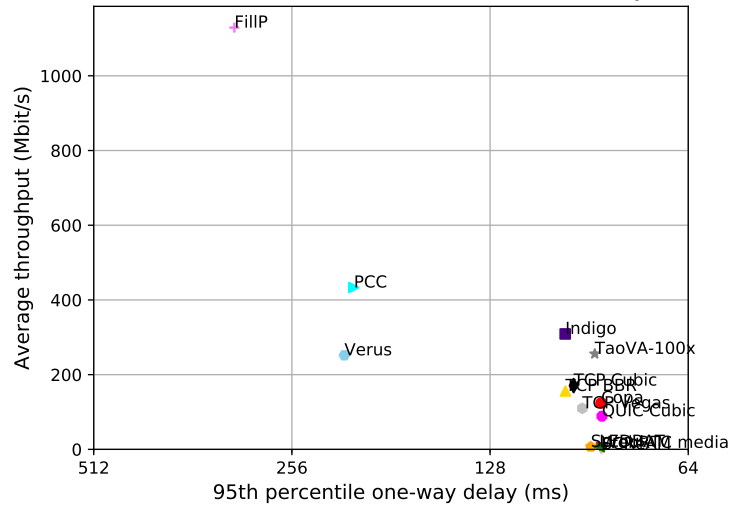
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

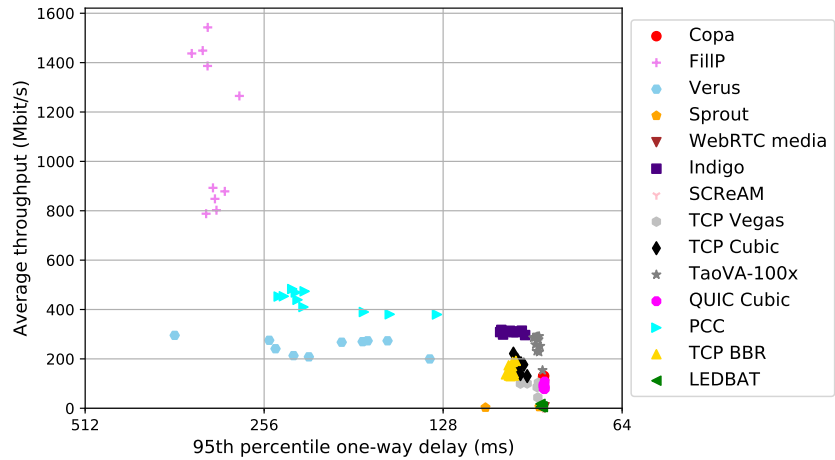
Git summary:

```
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-quick @ 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 GCE Iowa Ethernet to GCE Sydney Ethernet, 10 runs of 30s each per scheme
 3 flows with 10s interval between flows (mean of all runs by scheme)



test from GCE Iowa Ethernet to GCE Sydney Ethernet, 10 runs of 30s each per scheme
 3 flows with 10s interval between flows



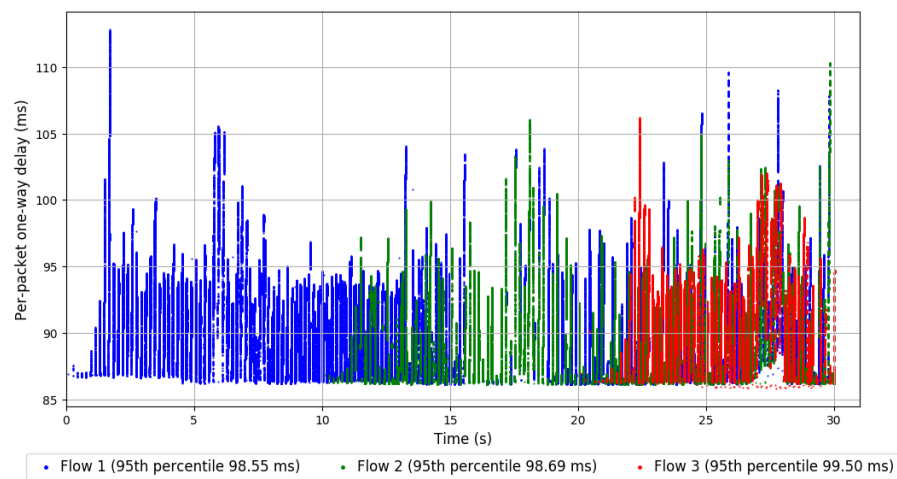
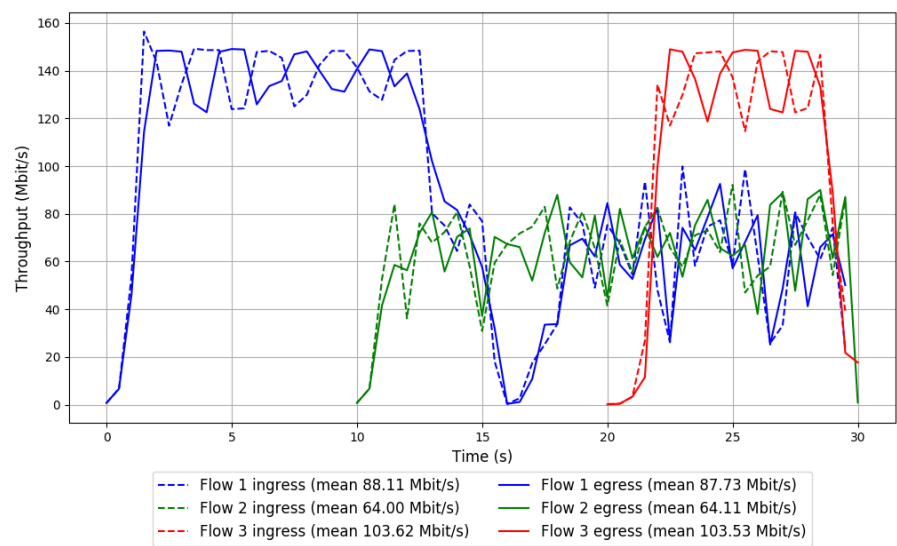
scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	10	69.73	81.79	97.84	97.64	98.63	98.98	0.78	0.22	0.12
TCP Cubic	10	86.19	86.19	82.25	94.86	95.62	96.16	0.24	0.02	0.07
LEDBAT	10	3.74	3.66	2.08	87.39	87.36	87.18	1.05	1.56	0.75
PCC	10	407.89	32.09	11.99	206.12	205.18	181.29	1.62	1.23	0.92
QUIC Cubic	10	52.23	40.41	29.86	86.47	86.52	86.36	0.00	0.00	0.00
SCReAM	7	0.22	0.22	0.22	86.57	86.48	86.58	0.00	0.00	0.00
WebRTC media	10	2.15	1.35	0.51	86.62	86.71	86.71	0.00	0.00	0.00
Sprout	9	3.61	3.27	3.01	90.14	90.35	87.53	0.40	0.53	0.00
TaoVA-100x	10	164.93	123.63	95.12	87.98	90.30	91.00	0.04	0.02	0.36
TCP Vegas	9	48.15	68.55	42.87	91.38	92.86	91.57	0.54	0.38	0.04
Verus	10	172.18	85.48	72.73	210.86	180.38	199.09	2.40	0.94	1.28
Copa	10	69.16	61.92	53.21	86.68	86.83	86.81	0.00	0.00	0.00
FillP	10	489.54	640.43	649.10	304.01	301.20	296.73	3.82	6.80	8.28
Indigo	10	171.20	156.37	106.22	95.48	99.91	105.52	0.02	0.02	0.03

```
Run 1: Statistics of TCP BBR

Start at: 2018-01-02 18:02:54
End at: 2018-01-02 18:03:24

# Below is generated by plot.py at 2018-01-02 21:53:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 164.04 Mbit/s
95th percentile per-packet one-way delay: 98.893 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 87.73 Mbit/s
95th percentile per-packet one-way delay: 98.546 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 64.11 Mbit/s
95th percentile per-packet one-way delay: 98.689 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 103.53 Mbit/s
95th percentile per-packet one-way delay: 99.501 ms
Loss rate: 0.01%
```


Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-01-02 18:17:57

End at: 2018-01-02 18:18:27

Below is generated by plot.py at 2018-01-02 21:54:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 192.13 Mbit/s

95th percentile per-packet one-way delay: 96.588 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 87.33 Mbit/s

95th percentile per-packet one-way delay: 96.016 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 97.43 Mbit/s

95th percentile per-packet one-way delay: 97.233 ms

Loss rate: 0.00%

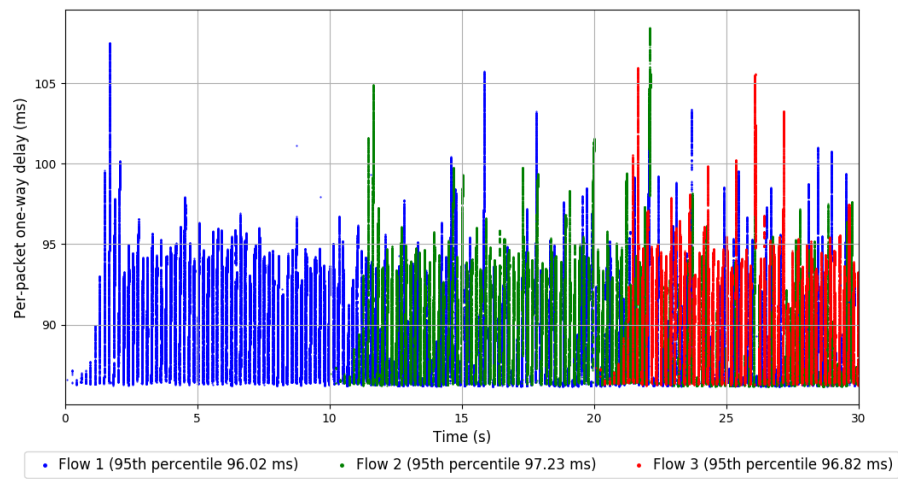
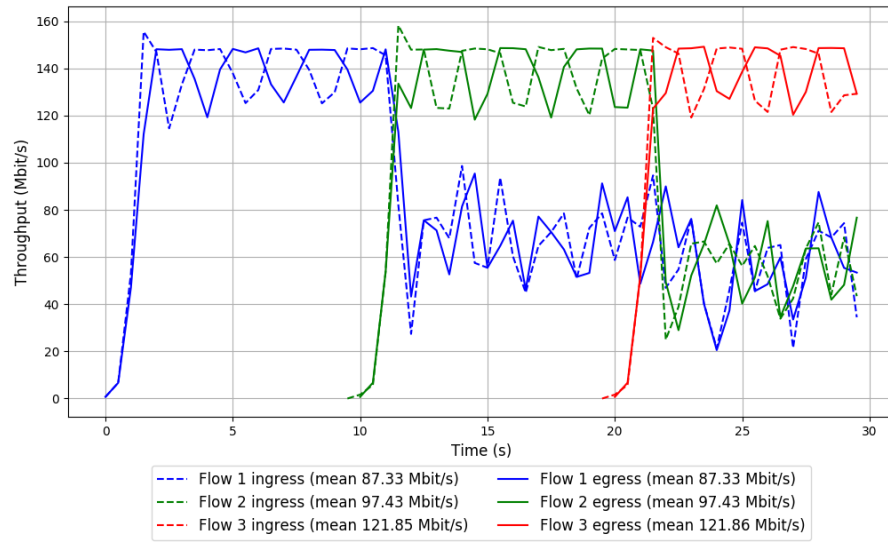
-- Flow 3:

Average throughput: 121.86 Mbit/s

95th percentile per-packet one-way delay: 96.822 ms

Loss rate: 0.00%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-01-02 18:32:48

End at: 2018-01-02 18:33:18

Below is generated by plot.py at 2018-01-02 21:54:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 174.00 Mbit/s

95th percentile per-packet one-way delay: 99.330 ms

Loss rate: 0.54%

-- Flow 1:

Average throughput: 64.28 Mbit/s

95th percentile per-packet one-way delay: 98.875 ms

Loss rate: 1.44%

-- Flow 2:

Average throughput: 129.92 Mbit/s

95th percentile per-packet one-way delay: 99.930 ms

Loss rate: 0.00%

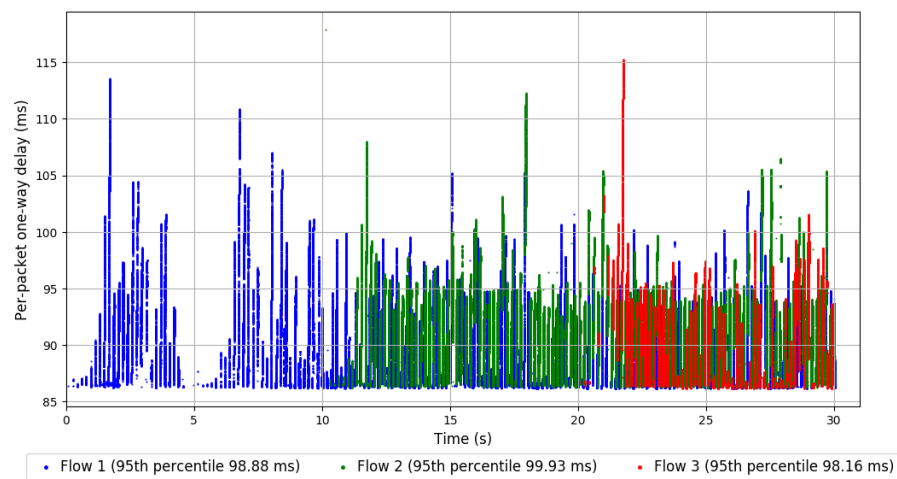
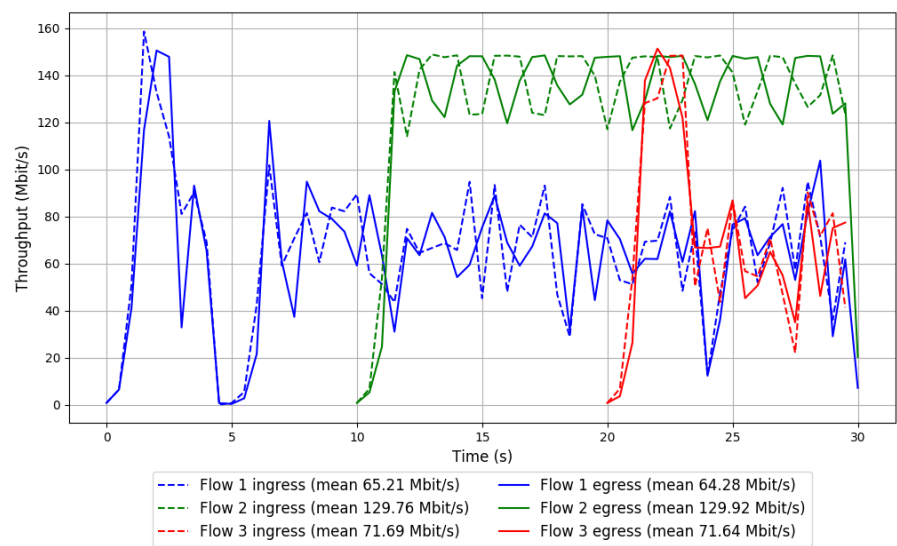
-- Flow 3:

Average throughput: 71.64 Mbit/s

95th percentile per-packet one-way delay: 98.162 ms

Loss rate: 0.00%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-01-02 18:47:37

End at: 2018-01-02 18:48:07

Below is generated by plot.py at 2018-01-02 21:54:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 132.56 Mbit/s

95th percentile per-packet one-way delay: 99.217 ms

Loss rate: 0.26%

-- Flow 1:

Average throughput: 60.67 Mbit/s

95th percentile per-packet one-way delay: 97.988 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 54.93 Mbit/s

95th percentile per-packet one-way delay: 98.493 ms

Loss rate: 0.91%

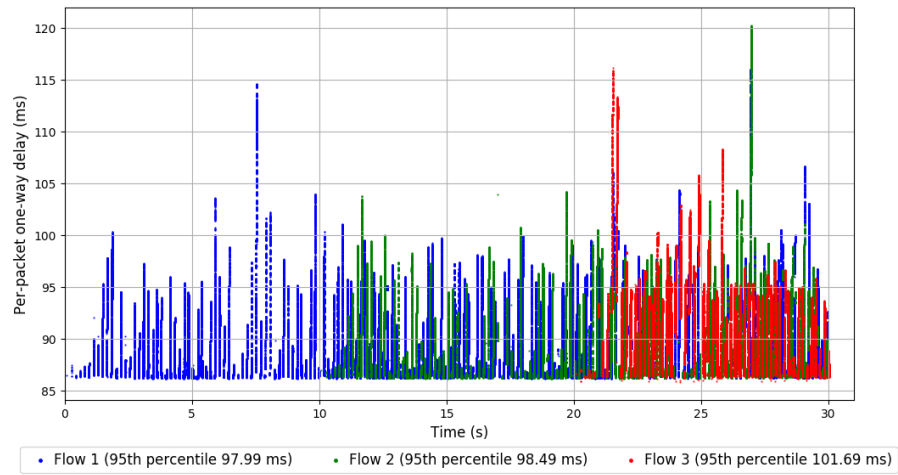
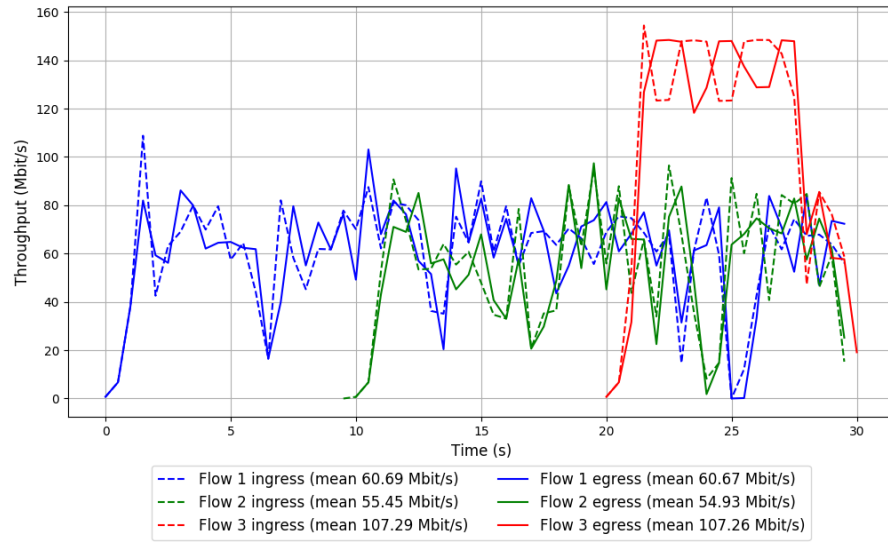
-- Flow 3:

Average throughput: 107.26 Mbit/s

95th percentile per-packet one-way delay: 101.685 ms

Loss rate: 0.02%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-01-02 19:02:09

End at: 2018-01-02 19:02:39

Below is generated by plot.py at 2018-01-02 21:54:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 141.69 Mbit/s

95th percentile per-packet one-way delay: 97.363 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 61.58 Mbit/s

95th percentile per-packet one-way delay: 96.398 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 59.94 Mbit/s

95th percentile per-packet one-way delay: 97.741 ms

Loss rate: 0.00%

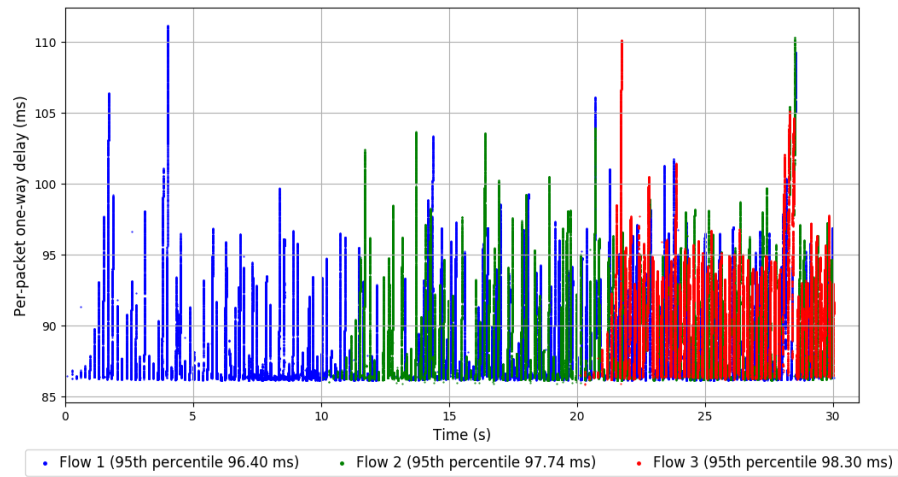
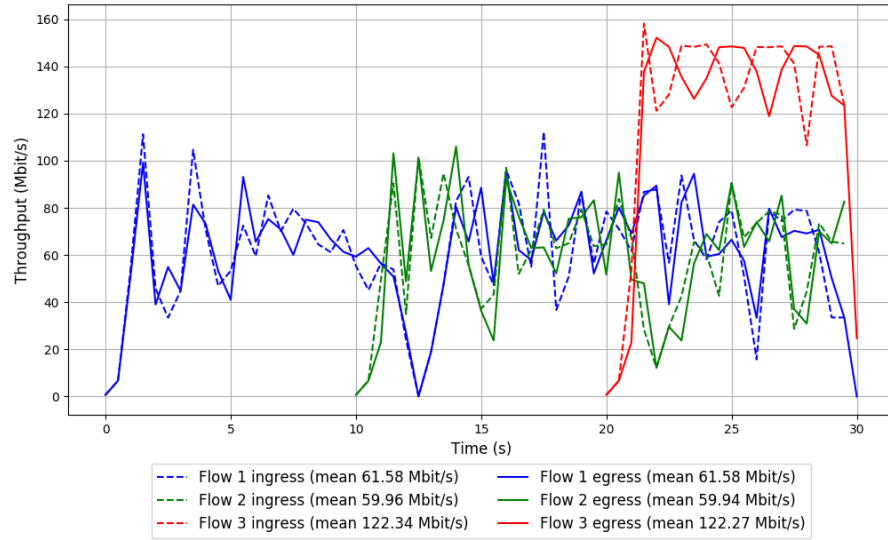
-- Flow 3:

Average throughput: 122.27 Mbit/s

95th percentile per-packet one-way delay: 98.301 ms

Loss rate: 0.00%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-01-02 19:16:20

End at: 2018-01-02 19:16:50

Below is generated by plot.py at 2018-01-02 21:54:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 170.66 Mbit/s

95th percentile per-packet one-way delay: 98.032 ms

Loss rate: 0.40%

-- Flow 1:

Average throughput: 59.35 Mbit/s

95th percentile per-packet one-way delay: 97.283 ms

Loss rate: 1.13%

-- Flow 2:

Average throughput: 107.33 Mbit/s

95th percentile per-packet one-way delay: 98.058 ms

Loss rate: 0.00%

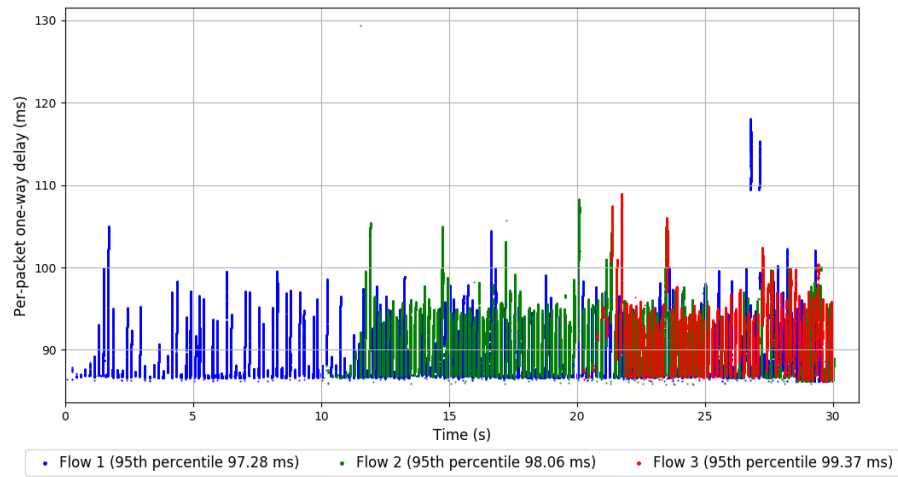
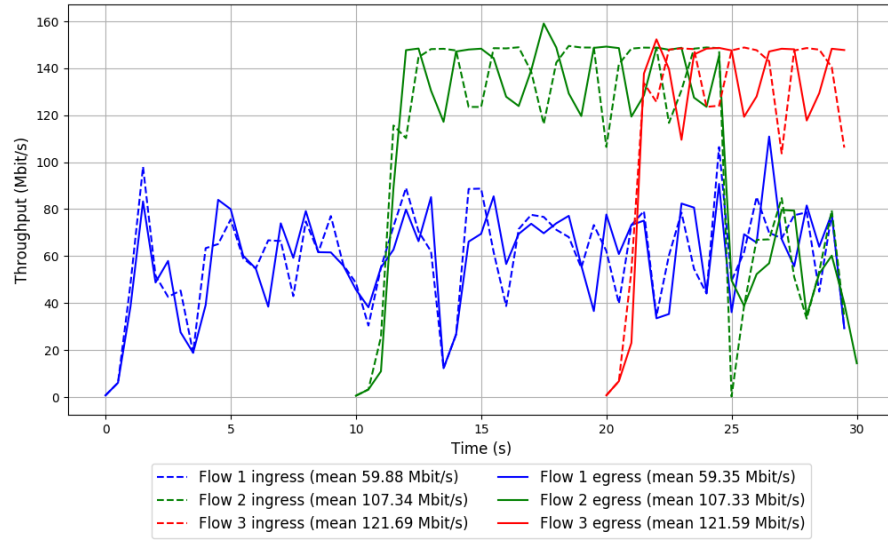
-- Flow 3:

Average throughput: 121.59 Mbit/s

95th percentile per-packet one-way delay: 99.371 ms

Loss rate: 0.00%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-01-02 19:30:40

End at: 2018-01-02 19:31:10

Below is generated by plot.py at 2018-01-02 21:54:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 137.47 Mbit/s

95th percentile per-packet one-way delay: 100.354 ms

Loss rate: 0.86%

-- Flow 1:

Average throughput: 63.62 Mbit/s

95th percentile per-packet one-way delay: 99.355 ms

Loss rate: 1.24%

-- Flow 2:

Average throughput: 85.91 Mbit/s

95th percentile per-packet one-way delay: 101.338 ms

Loss rate: 0.69%

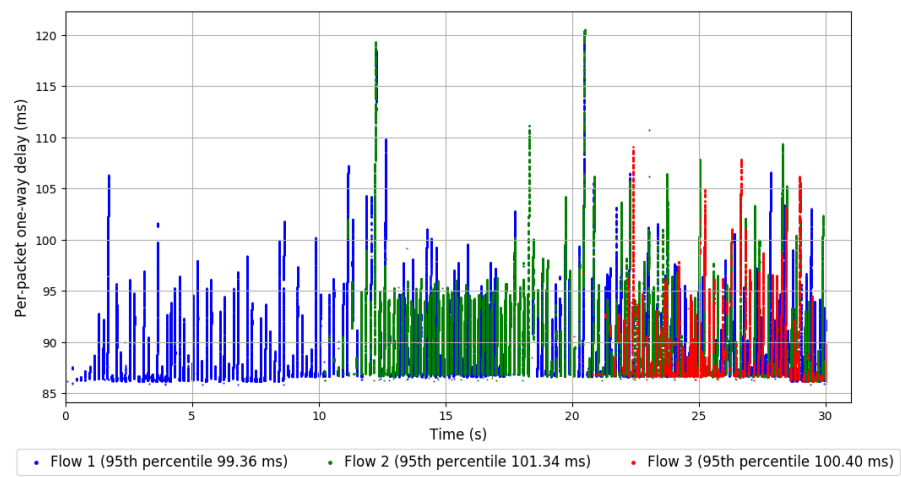
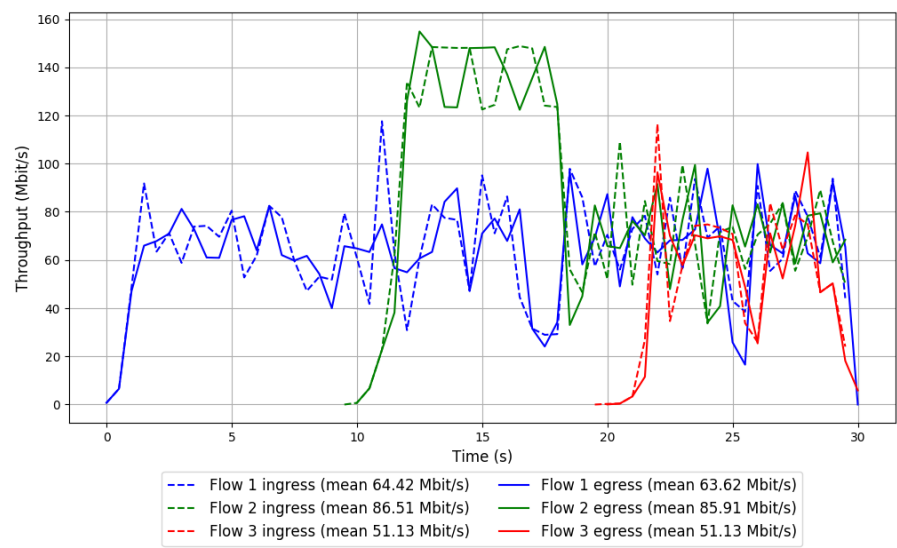
-- Flow 3:

Average throughput: 51.13 Mbit/s

95th percentile per-packet one-way delay: 100.401 ms

Loss rate: 0.02%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-01-02 19:45:06

End at: 2018-01-02 19:45:36

Below is generated by plot.py at 2018-01-02 21:54:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 187.71 Mbit/s

95th percentile per-packet one-way delay: 97.801 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 85.91 Mbit/s

95th percentile per-packet one-way delay: 97.112 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 96.13 Mbit/s

95th percentile per-packet one-way delay: 96.914 ms

Loss rate: 0.00%

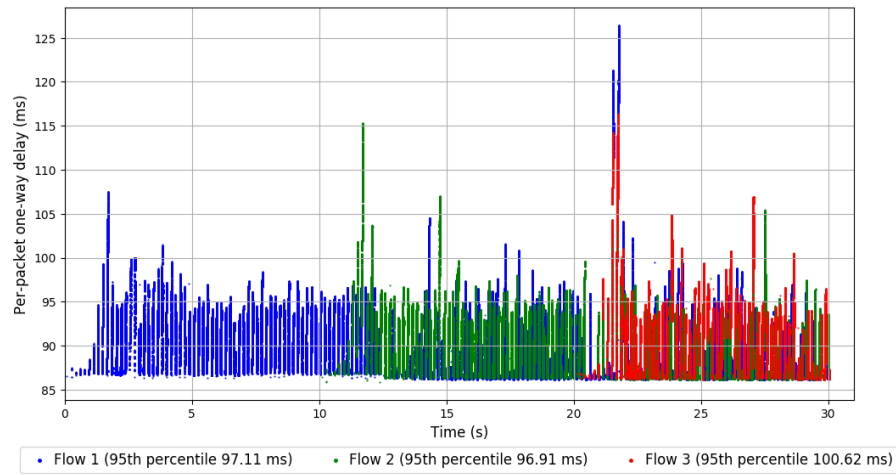
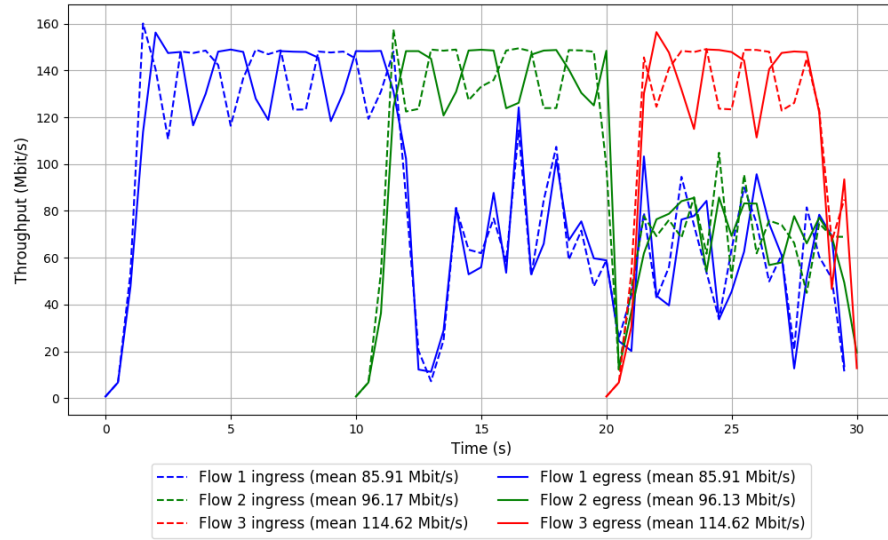
-- Flow 3:

Average throughput: 114.62 Mbit/s

95th percentile per-packet one-way delay: 100.625 ms

Loss rate: 0.00%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-01-02 19:59:46

End at: 2018-01-02 20:00:16

Below is generated by plot.py at 2018-01-02 21:55:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 132.46 Mbit/s

95th percentile per-packet one-way delay: 97.320 ms

Loss rate: 0.95%

-- Flow 1:

Average throughput: 73.55 Mbit/s

95th percentile per-packet one-way delay: 97.043 ms

Loss rate: 1.62%

-- Flow 2:

Average throughput: 58.47 Mbit/s

95th percentile per-packet one-way delay: 97.787 ms

Loss rate: 0.16%

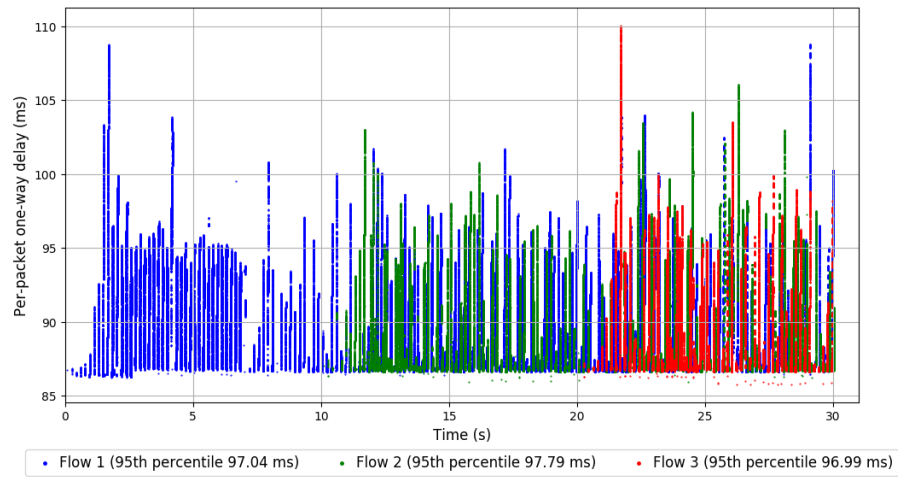
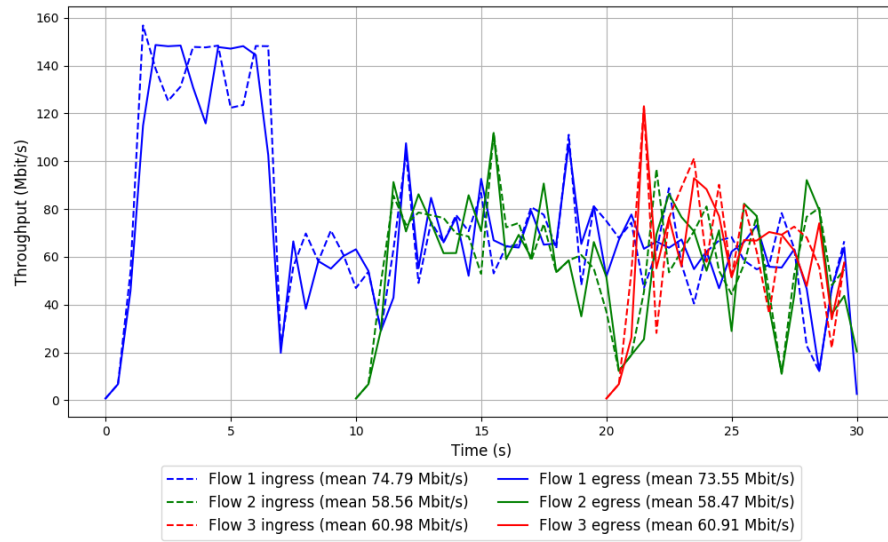
-- Flow 3:

Average throughput: 60.91 Mbit/s

95th percentile per-packet one-way delay: 96.992 ms

Loss rate: 0.00%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-01-02 20:13:59

End at: 2018-01-02 20:14:29

Below is generated by plot.py at 2018-01-02 21:55:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 129.94 Mbit/s

95th percentile per-packet one-way delay: 98.592 ms

Loss rate: 1.28%

-- Flow 1:

Average throughput: 53.25 Mbit/s

95th percentile per-packet one-way delay: 97.807 ms

Loss rate: 2.04%

-- Flow 2:

Average throughput: 63.77 Mbit/s

95th percentile per-packet one-way delay: 100.104 ms

Loss rate: 0.42%

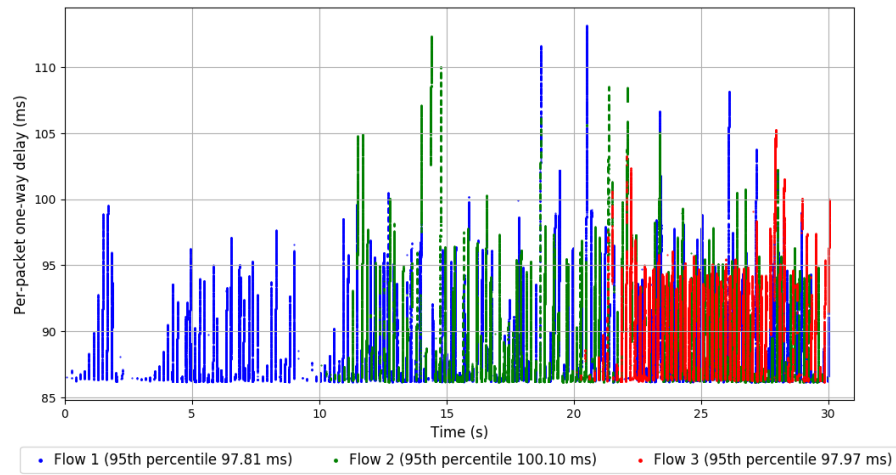
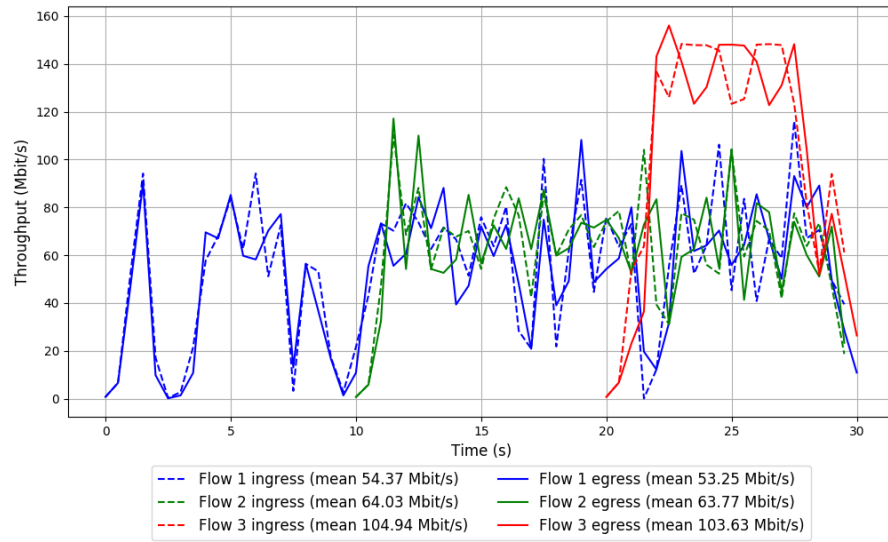
-- Flow 3:

Average throughput: 103.63 Mbit/s

95th percentile per-packet one-way delay: 97.975 ms

Loss rate: 1.14%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-01-02 17:57:31

End at: 2018-01-02 17:58:01

Below is generated by plot.py at 2018-01-02 21:56:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 176.64 Mbit/s

95th percentile per-packet one-way delay: 96.732 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 50.99 Mbit/s

95th percentile per-packet one-way delay: 95.119 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 129.04 Mbit/s

95th percentile per-packet one-way delay: 96.837 ms

Loss rate: 0.12%

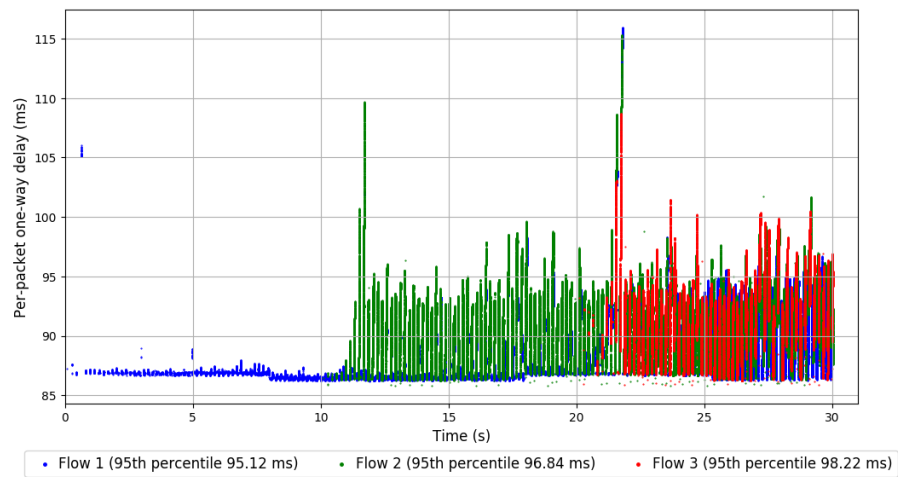
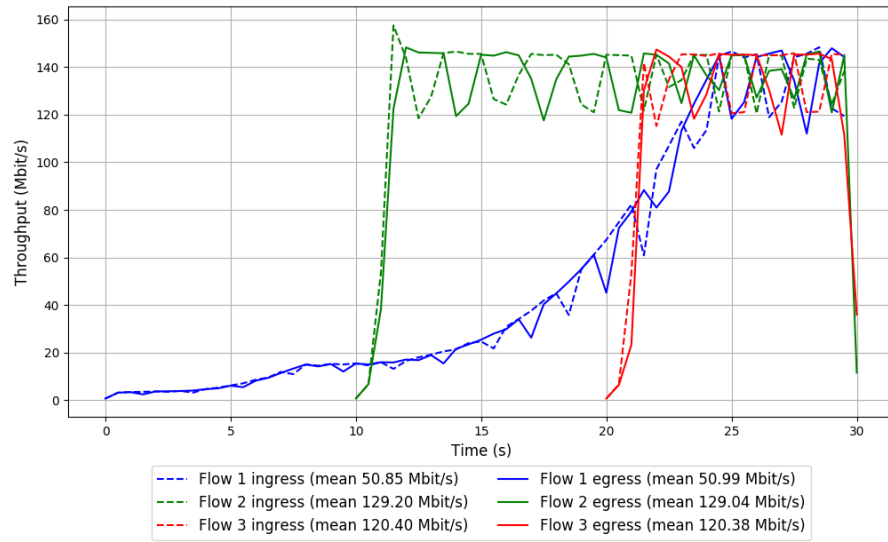
-- Flow 3:

Average throughput: 120.38 Mbit/s

95th percentile per-packet one-way delay: 98.224 ms

Loss rate: 0.00%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-01-02 18:12:23

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

Below is generated by plot.py at 2018-01-02 21:56:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 138.24 Mbit/s

95th percentile per-packet one-way delay: 94.866 ms

Loss rate: 0.32%

-- Flow 1:

Average throughput: 78.84 Mbit/s

95th percentile per-packet one-way delay: 95.547 ms

Loss rate: 0.56%

-- Flow 2:

Average throughput: 88.47 Mbit/s

95th percentile per-packet one-way delay: 94.317 ms

Loss rate: 0.00%

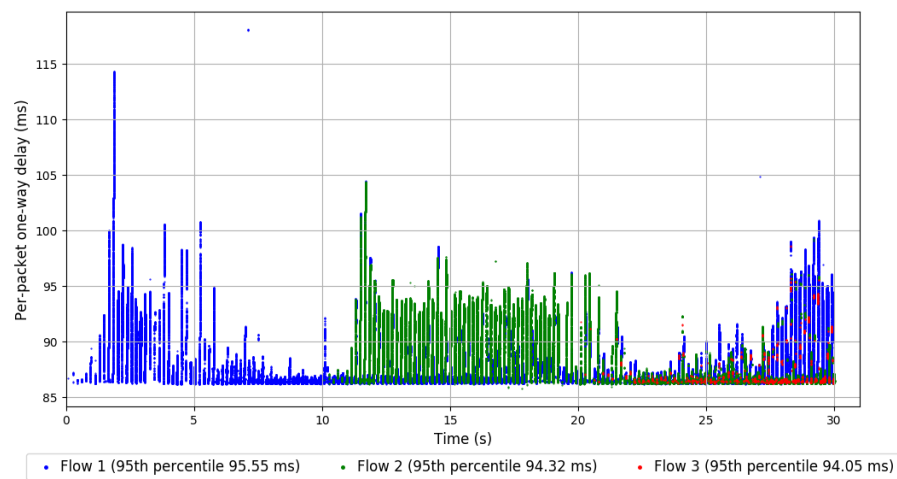
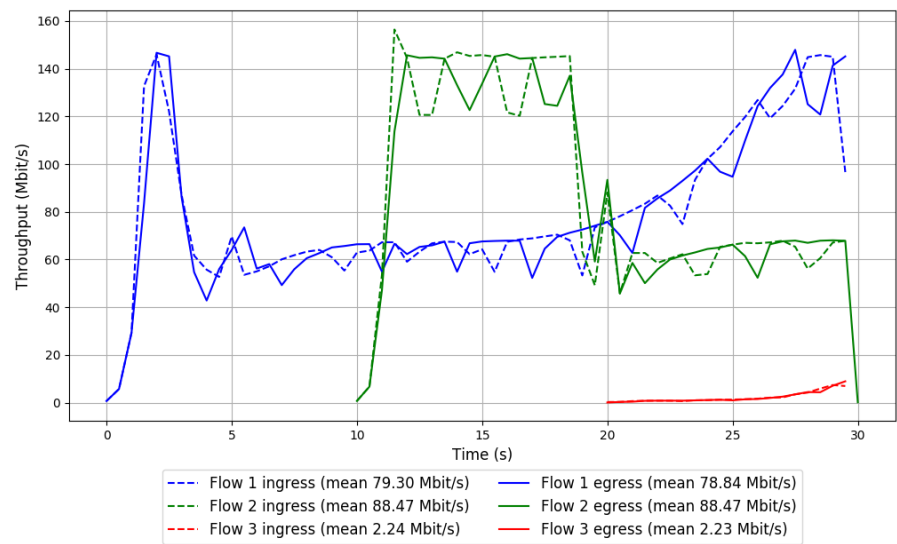
-- Flow 3:

Average throughput: 2.23 Mbit/s

95th percentile per-packet one-way delay: 94.051 ms

Loss rate: 0.49%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-01-02 18:27:12

End at: 2018-01-02 18:27:42

Below is generated by plot.py at 2018-01-02 21:56:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 180.71 Mbit/s

95th percentile per-packet one-way delay: 96.673 ms

Loss rate: 0.22%

-- Flow 1:

Average throughput: 80.28 Mbit/s

95th percentile per-packet one-way delay: 95.757 ms

Loss rate: 0.50%

-- Flow 2:

Average throughput: 117.17 Mbit/s

95th percentile per-packet one-way delay: 97.009 ms

Loss rate: 0.00%

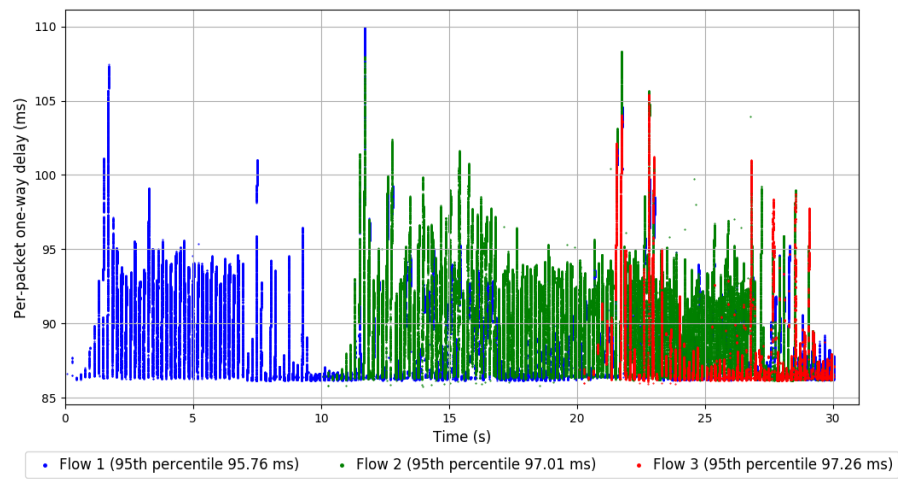
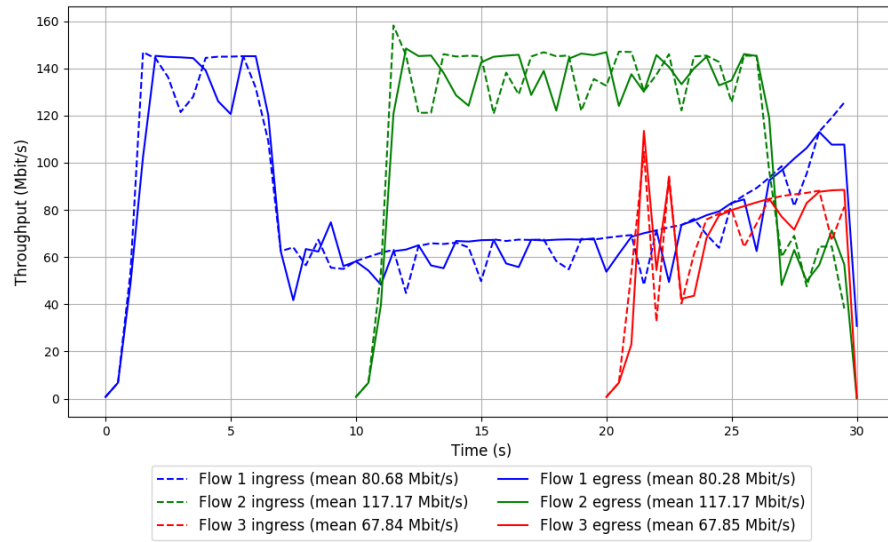
-- Flow 3:

Average throughput: 67.85 Mbit/s

95th percentile per-packet one-way delay: 97.263 ms

Loss rate: 0.00%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-01-02 18:42:06

End at: 2018-01-02 18:42:36

Below is generated by plot.py at 2018-01-02 21:57:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 182.21 Mbit/s

95th percentile per-packet one-way delay: 94.690 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 94.08 Mbit/s

95th percentile per-packet one-way delay: 92.531 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 72.42 Mbit/s

95th percentile per-packet one-way delay: 94.214 ms

Loss rate: 0.00%

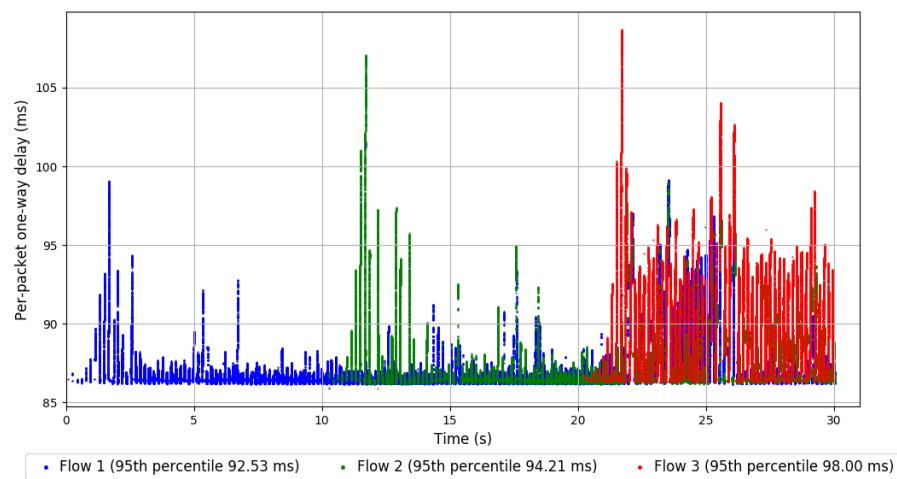
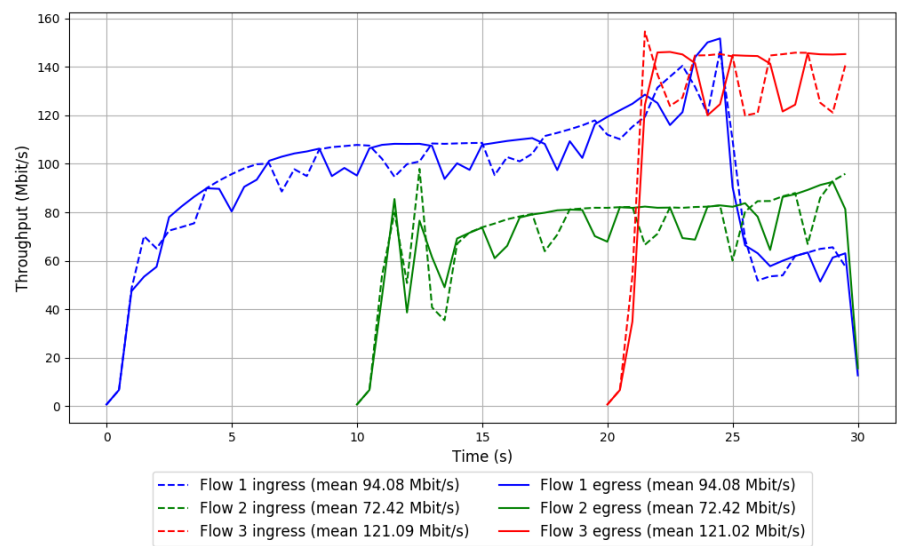
-- Flow 3:

Average throughput: 121.02 Mbit/s

95th percentile per-packet one-way delay: 98.004 ms

Loss rate: 0.00%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-01-02 18:56:34

End at: 2018-01-02 18:57:04

Below is generated by plot.py at 2018-01-02 21:57:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 144.13 Mbit/s

95th percentile per-packet one-way delay: 95.927 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 124.17 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 28.89 Mbit/s

95th percentile per-packet one-way delay: 98.352 ms

Loss rate: 0.00%

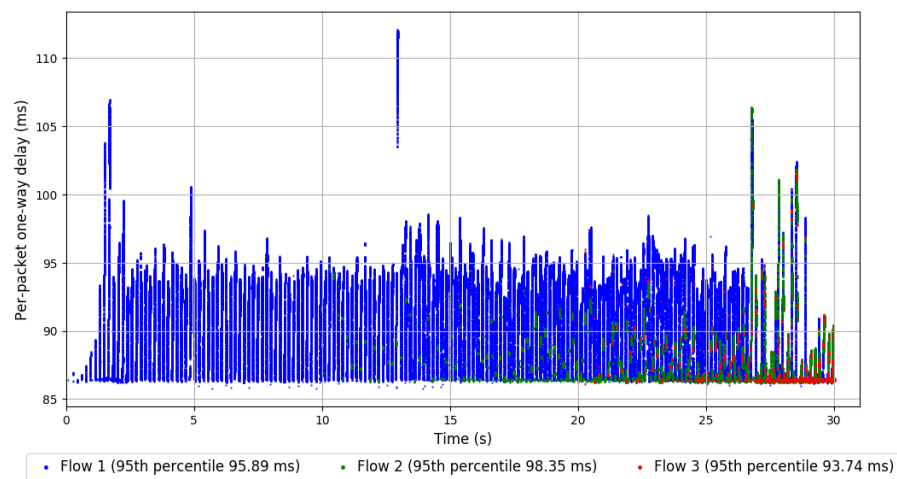
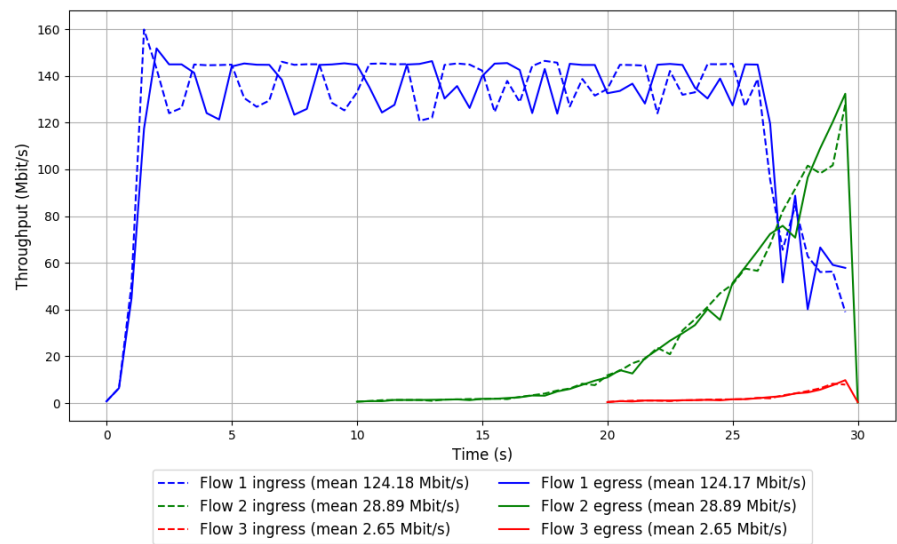
-- Flow 3:

Average throughput: 2.65 Mbit/s

95th percentile per-packet one-way delay: 93.743 ms

Loss rate: 0.23%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-01-02 19:10:55

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

Below is generated by plot.py at 2018-01-02 21:57:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 130.33 Mbit/s

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

Loss rate: 0.01%

-- Flow 1:

Average throughput: 84.61 Mbit/s

95th percentile per-packet one-way delay: 92.101 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 28.96 Mbit/s

95th percentile per-packet one-way delay: 92.772 ms

Loss rate: 0.01%

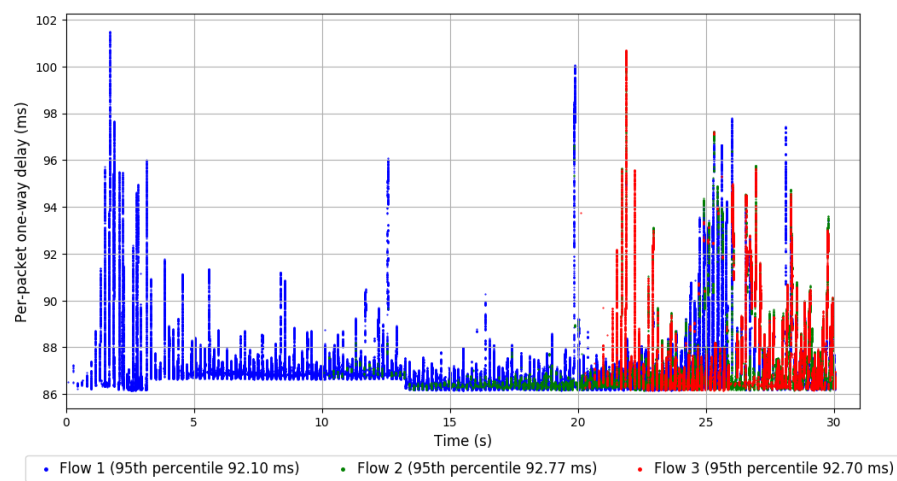
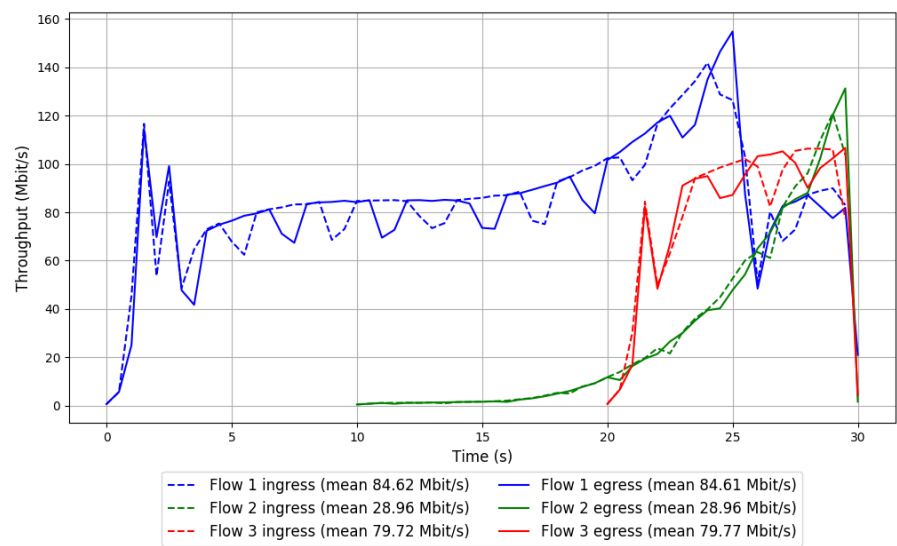
-- Flow 3:

Average throughput: 79.77 Mbit/s

95th percentile per-packet one-way delay: 92.701 ms

Loss rate: 0.00%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

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

End at: 2018-01-02 19:25:41

Below is generated by plot.py at 2018-01-02 21:58:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 176.71 Mbit/s

95th percentile per-packet one-way delay: 93.634 ms

Loss rate: 0.42%

-- Flow 1:

Average throughput: 89.51 Mbit/s

95th percentile per-packet one-way delay: 92.060 ms

Loss rate: 0.82%

-- Flow 2:

Average throughput: 70.74 Mbit/s

95th percentile per-packet one-way delay: 93.002 ms

Loss rate: 0.00%

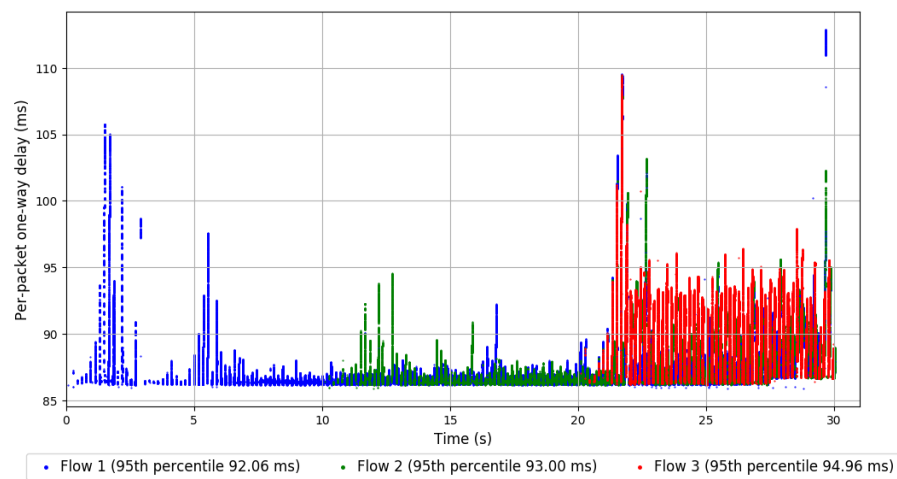
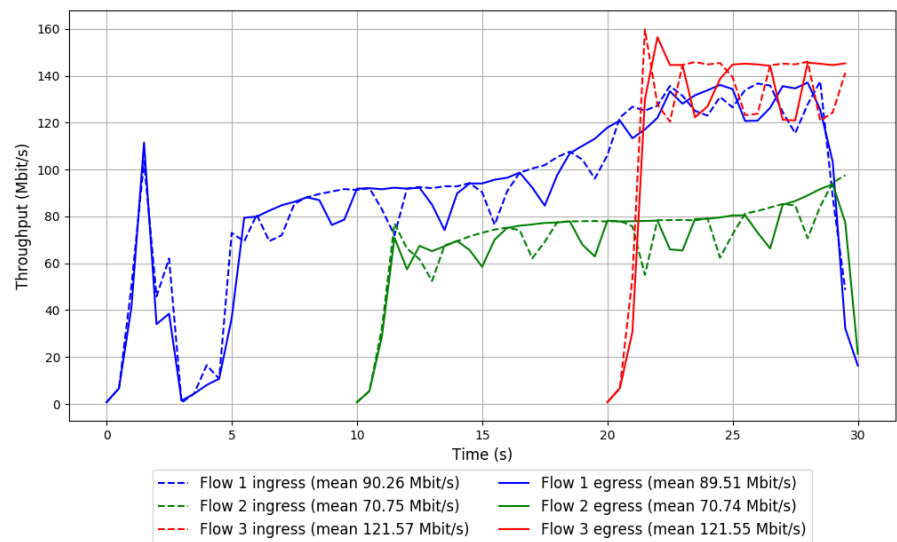
-- Flow 3:

Average throughput: 121.55 Mbit/s

95th percentile per-packet one-way delay: 94.960 ms

Loss rate: 0.00%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-01-02 19:39:37

End at: 2018-01-02 19:40:07

Below is generated by plot.py at 2018-01-02 21:58:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 160.06 Mbit/s

95th percentile per-packet one-way delay: 97.248 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 74.45 Mbit/s

95th percentile per-packet one-way delay: 97.486 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 68.55 Mbit/s

95th percentile per-packet one-way delay: 95.700 ms

Loss rate: 0.08%

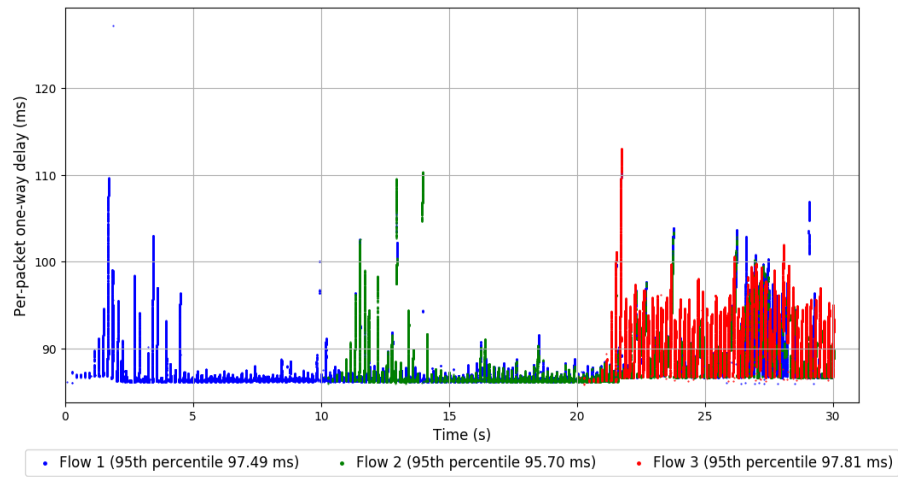
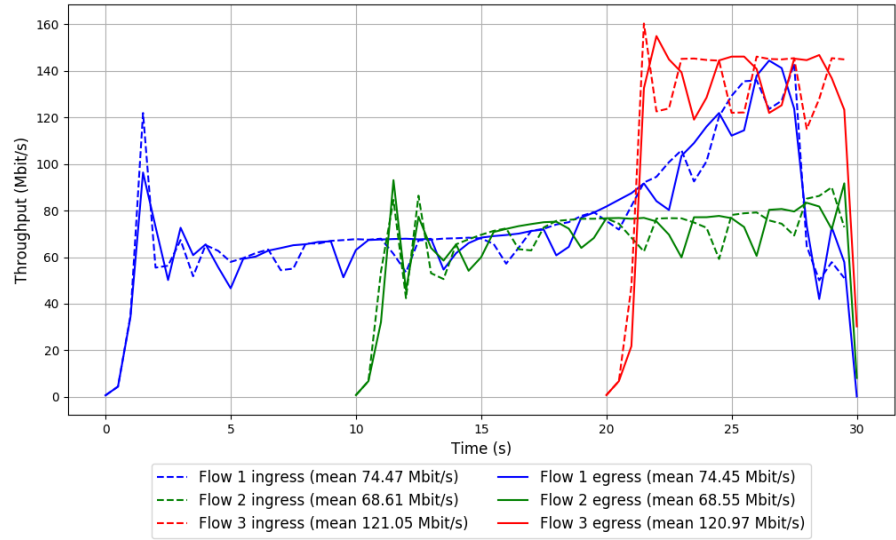
-- Flow 3:

Average throughput: 120.97 Mbit/s

95th percentile per-packet one-way delay: 97.808 ms

Loss rate: 0.00%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-01-02 19:54:10

End at: 2018-01-02 19:54:40

Below is generated by plot.py at 2018-01-02 21:59:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 196.47 Mbit/s

95th percentile per-packet one-way delay: 95.995 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 88.61 Mbit/s

95th percentile per-packet one-way delay: 95.484 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 129.91 Mbit/s

95th percentile per-packet one-way delay: 96.241 ms

Loss rate: 0.00%

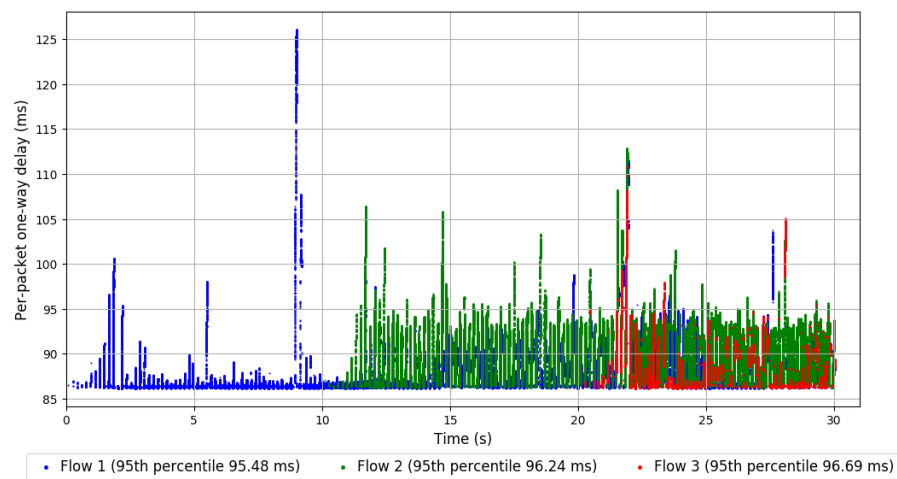
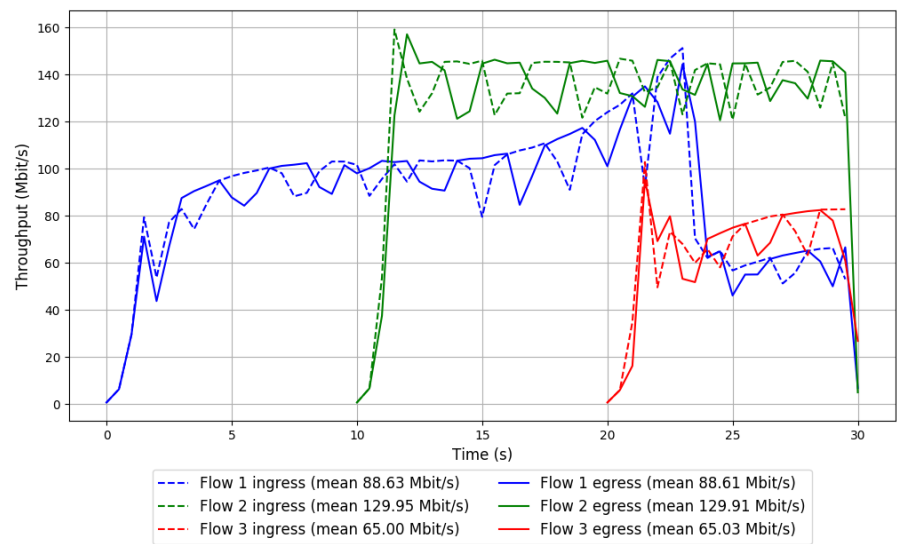
-- Flow 3:

Average throughput: 65.03 Mbit/s

95th percentile per-packet one-way delay: 96.686 ms

Loss rate: 0.02%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-01-02 20:08:22

End at: 2018-01-02 20:08:52

Below is generated by plot.py at 2018-01-02 21:59:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 221.42 Mbit/s

95th percentile per-packet one-way delay: 97.495 ms

Loss rate: 0.20%

-- Flow 1:

Average throughput: 96.40 Mbit/s

95th percentile per-packet one-way delay: 96.588 ms

Loss rate: 0.44%

-- Flow 2:

Average throughput: 127.76 Mbit/s

95th percentile per-packet one-way delay: 97.728 ms

Loss rate: 0.01%

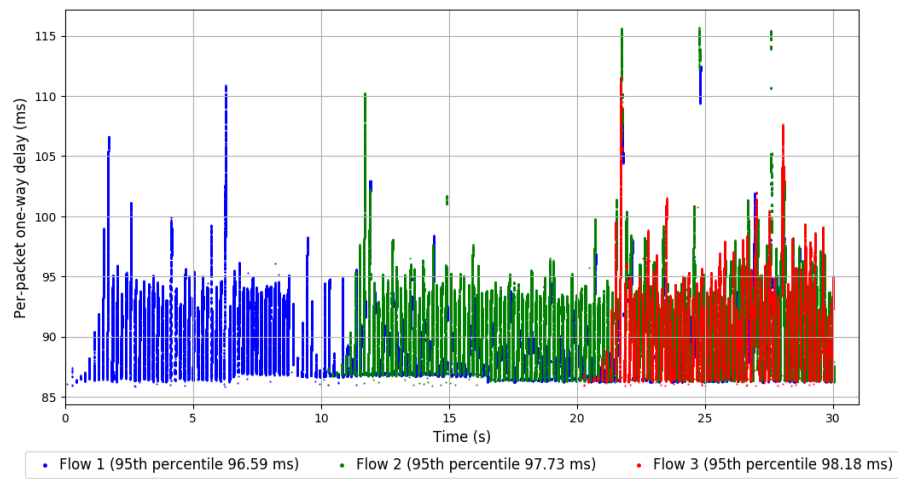
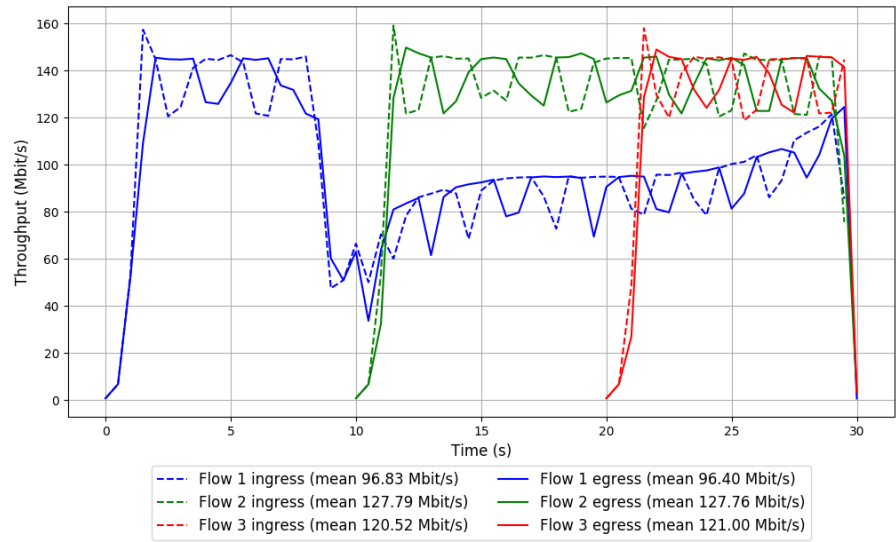
-- Flow 3:

Average throughput: 121.00 Mbit/s

95th percentile per-packet one-way delay: 98.182 ms

Loss rate: 0.00%

Run 10: Report of TCP Cubic — Data Link

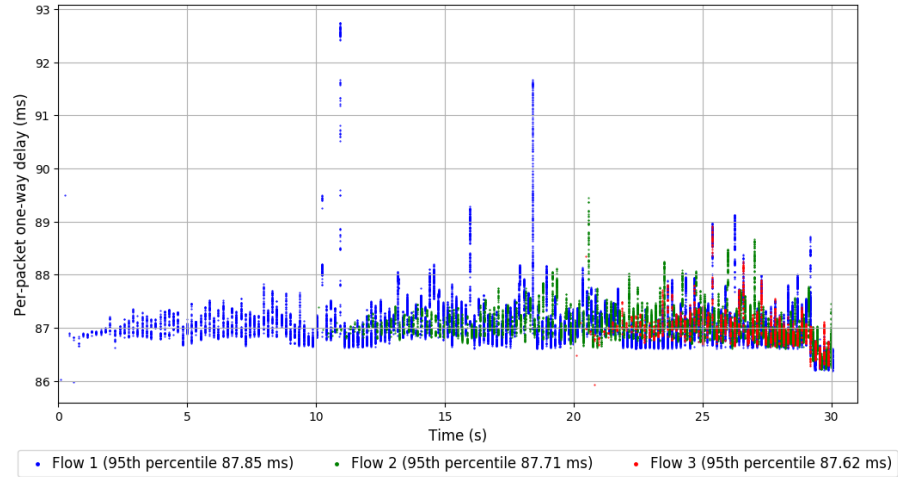
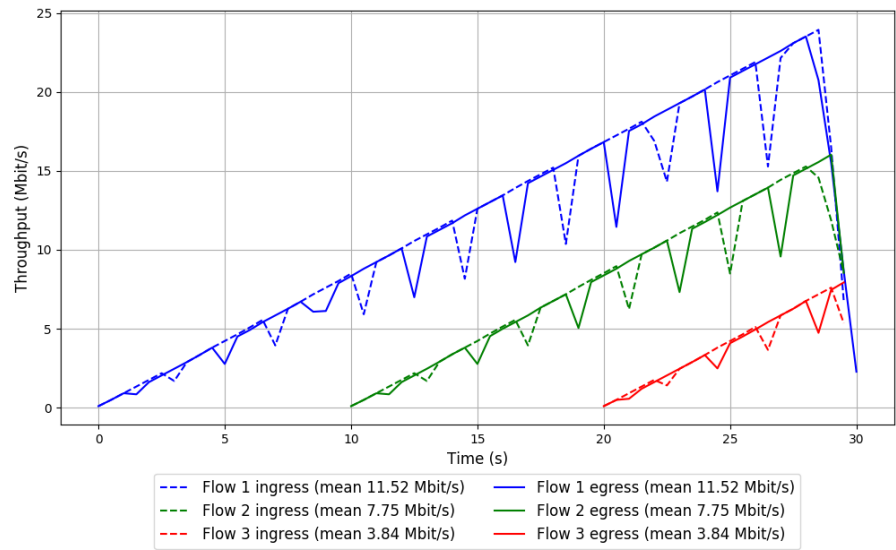


```
Run 1: Statistics of LEDBAT

Start at: 2018-01-02 18:03:49
End at: 2018-01-02 18:04:19

# Below is generated by plot.py at 2018-01-02 21:59:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 17.91 Mbit/s
95th percentile per-packet one-way delay: 87.798 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 11.52 Mbit/s
95th percentile per-packet one-way delay: 87.847 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 7.75 Mbit/s
95th percentile per-packet one-way delay: 87.713 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 3.84 Mbit/s
95th percentile per-packet one-way delay: 87.622 ms
Loss rate: 0.00%
```


Run 1: Report of LEDBAT — Data Link

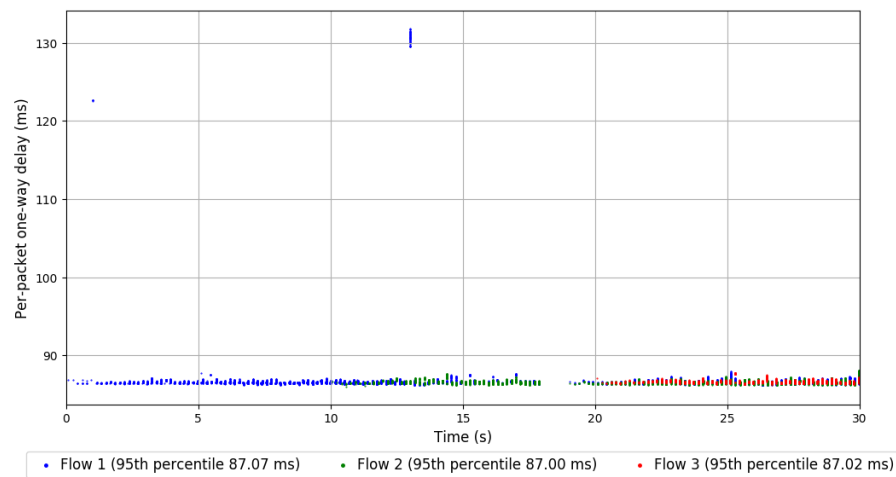
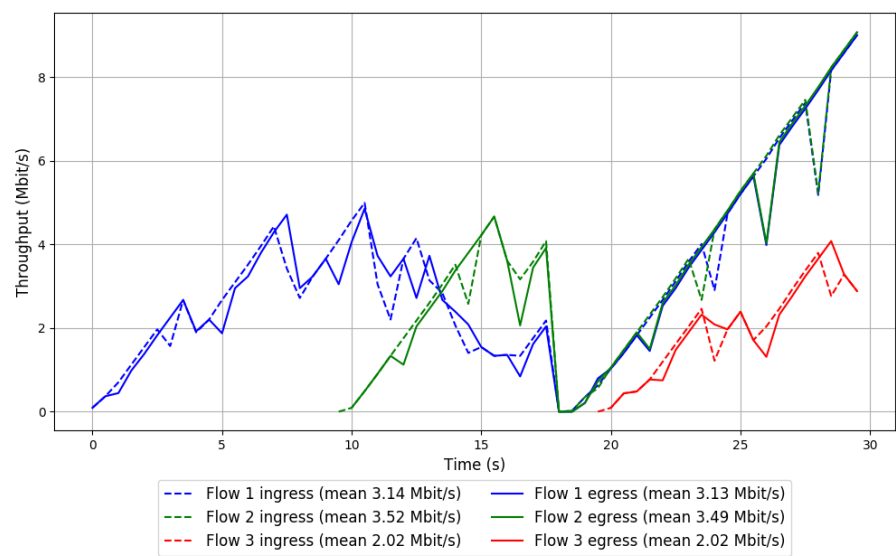


```
Run 2: Statistics of LEDBAT

Start at: 2018-01-02 18:18:54
End at: 2018-01-02 18:19:24

# Below is generated by plot.py at 2018-01-02 21:59:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 6.12 Mbit/s
95th percentile per-packet one-way delay: 87.039 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 3.13 Mbit/s
95th percentile per-packet one-way delay: 87.068 ms
Loss rate: 0.41%
-- Flow 2:
Average throughput: 3.49 Mbit/s
95th percentile per-packet one-way delay: 87.004 ms
Loss rate: 1.00%
-- Flow 3:
Average throughput: 2.02 Mbit/s
95th percentile per-packet one-way delay: 87.020 ms
Loss rate: 0.00%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-01-02 18:33:44

End at: 2018-01-02 18:34:14

Below is generated by plot.py at 2018-01-02 21:59:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 6.84 Mbit/s

95th percentile per-packet one-way delay: 87.492 ms

Loss rate: 0.11%

-- Flow 1:

Average throughput: 2.82 Mbit/s

95th percentile per-packet one-way delay: 87.481 ms

Loss rate: 0.28%

-- Flow 2:

Average throughput: 5.82 Mbit/s

95th percentile per-packet one-way delay: 87.507 ms

Loss rate: 0.00%

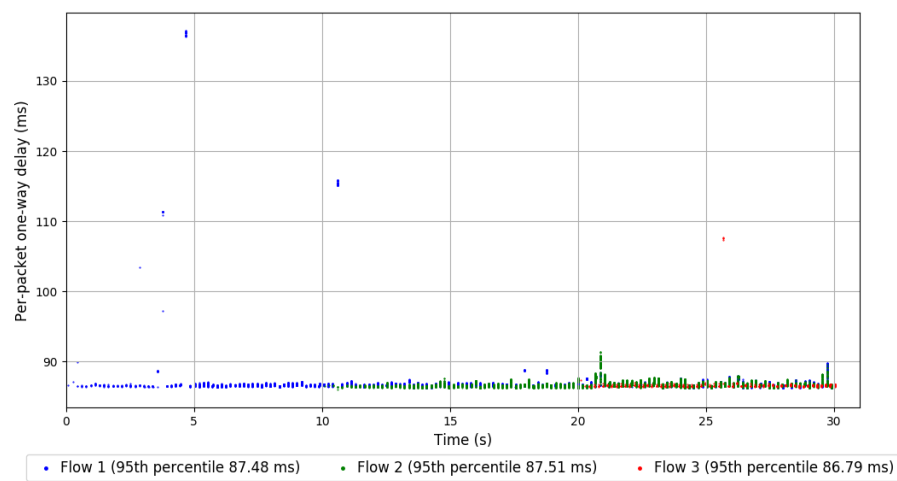
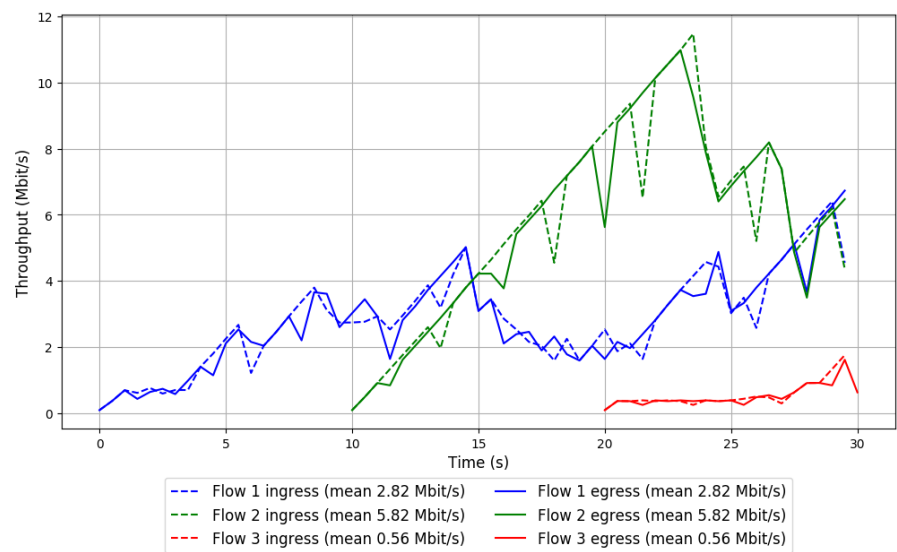
-- Flow 3:

Average throughput: 0.56 Mbit/s

95th percentile per-packet one-way delay: 86.792 ms

Loss rate: 0.00%

Run 3: Report of LEDBAT — Data Link

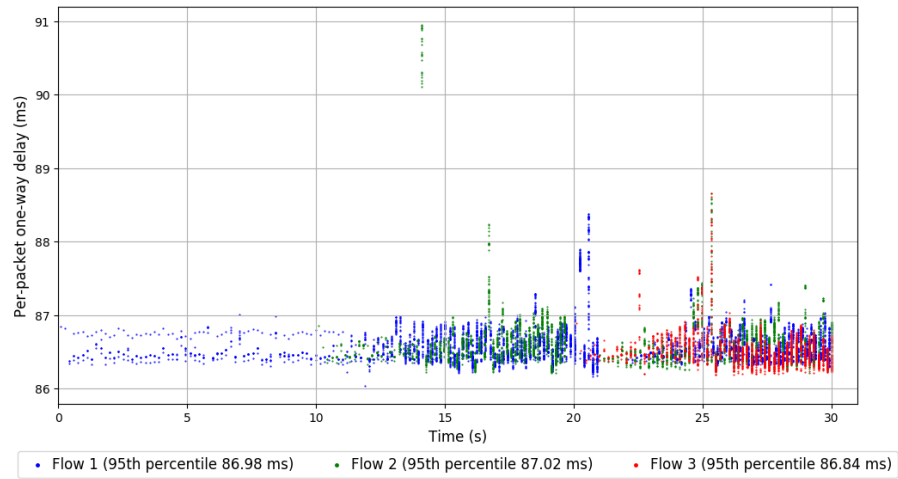
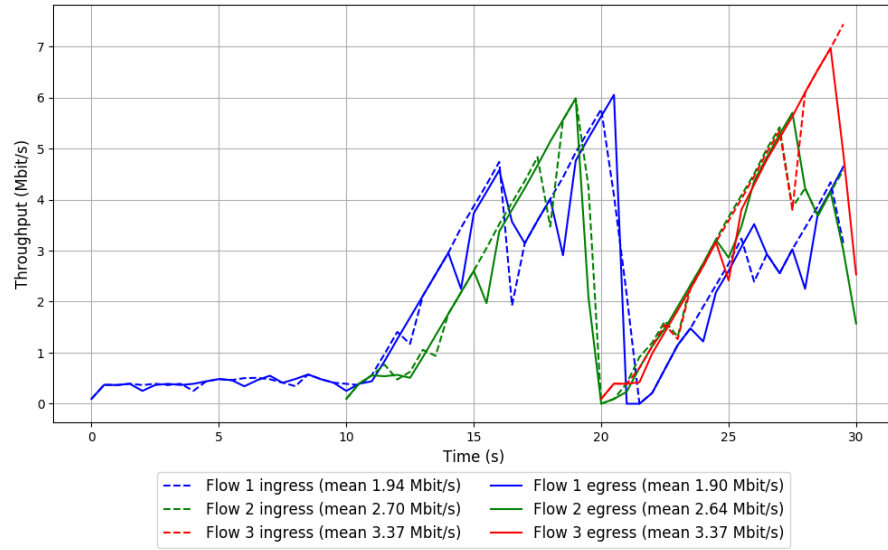


```
Run 4: Statistics of LEDBAT

Start at: 2018-01-02 18:48:30
End at: 2018-01-02 18:49:00

# Below is generated by plot.py at 2018-01-02 21:59:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.77 Mbit/s
95th percentile per-packet one-way delay: 86.982 ms
Loss rate: 1.48%
-- Flow 1:
Average throughput: 1.90 Mbit/s
95th percentile per-packet one-way delay: 86.981 ms
Loss rate: 1.84%
-- Flow 2:
Average throughput: 2.64 Mbit/s
95th percentile per-packet one-way delay: 87.023 ms
Loss rate: 2.01%
-- Flow 3:
Average throughput: 3.37 Mbit/s
95th percentile per-packet one-way delay: 86.839 ms
Loss rate: 0.00%
```

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-01-02 19:03:04

End at: 2018-01-02 19:03:34

Below is generated by plot.py at 2018-01-02 21:59:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 5.08 Mbit/s

95th percentile per-packet one-way delay: 87.271 ms

Loss rate: 1.08%

-- Flow 1:

Average throughput: 2.65 Mbit/s

95th percentile per-packet one-way delay: 87.211 ms

Loss rate: 1.60%

-- Flow 2:

Average throughput: 3.04 Mbit/s

95th percentile per-packet one-way delay: 87.404 ms

Loss rate: 0.00%

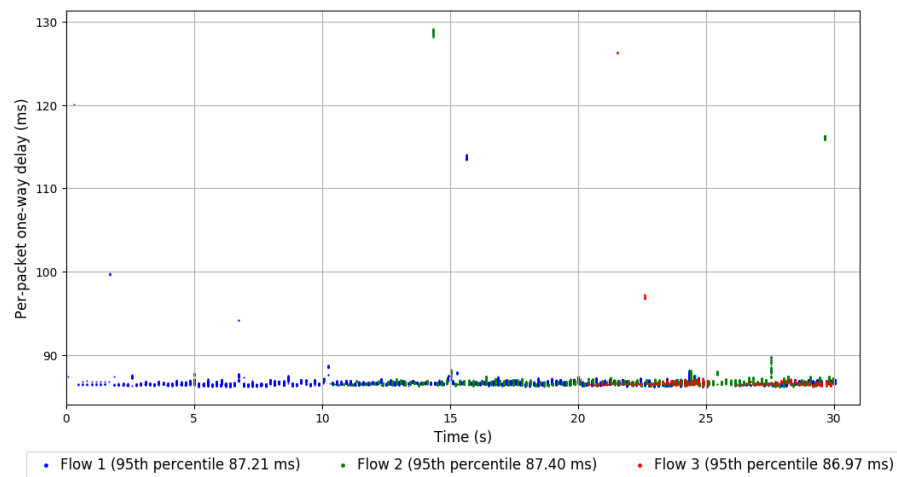
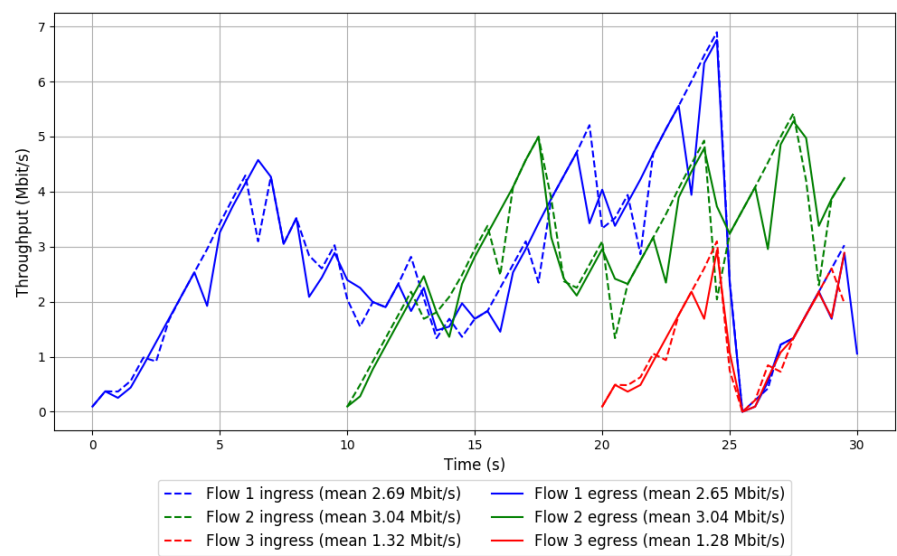
-- Flow 3:

Average throughput: 1.28 Mbit/s

95th percentile per-packet one-way delay: 86.974 ms

Loss rate: 2.92%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-01-02 19:17:16

End at: 2018-01-02 19:17:46

Below is generated by plot.py at 2018-01-02 21:59:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 5.71 Mbit/s

95th percentile per-packet one-way delay: 87.566 ms

Loss rate: 0.98%

-- Flow 1:

Average throughput: 1.96 Mbit/s

95th percentile per-packet one-way delay: 87.401 ms

Loss rate: 2.33%

-- Flow 2:

Average throughput: 3.96 Mbit/s

95th percentile per-packet one-way delay: 87.600 ms

Loss rate: 0.37%

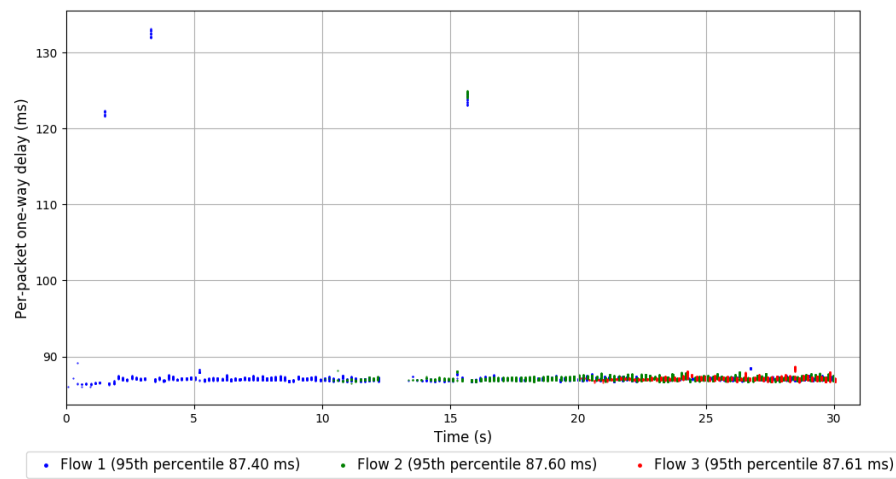
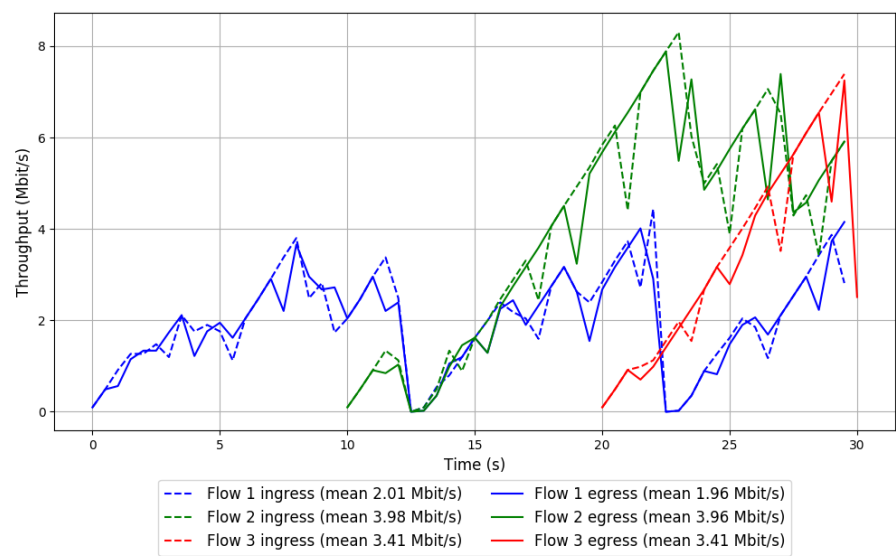
-- Flow 3:

Average throughput: 3.41 Mbit/s

95th percentile per-packet one-way delay: 87.614 ms

Loss rate: 0.00%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-01-02 19:31:34

End at: 2018-01-02 19:32:04

Below is generated by plot.py at 2018-01-02 21:59:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.54 Mbit/s

95th percentile per-packet one-way delay: 87.722 ms

Loss rate: 2.24%

-- Flow 1:

Average throughput: 1.93 Mbit/s

95th percentile per-packet one-way delay: 87.712 ms

Loss rate: 1.83%

-- Flow 2:

Average throughput: 1.14 Mbit/s

95th percentile per-packet one-way delay: 87.541 ms

Loss rate: 5.59%

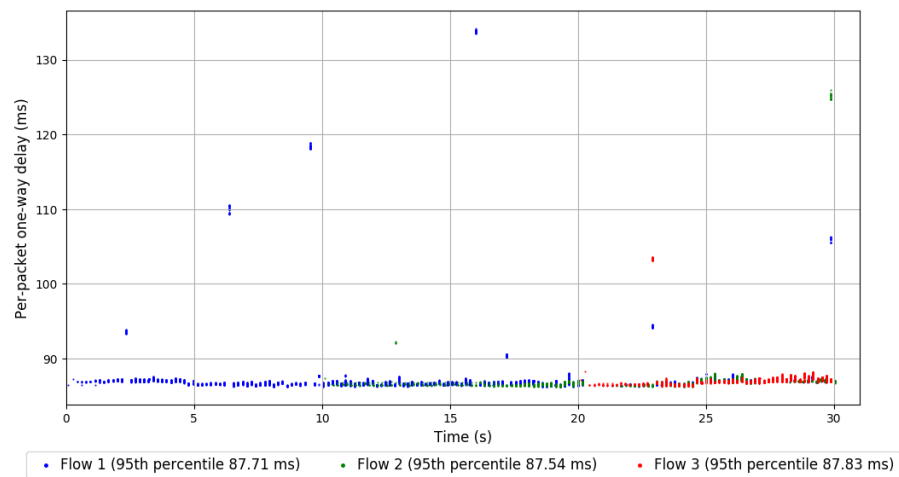
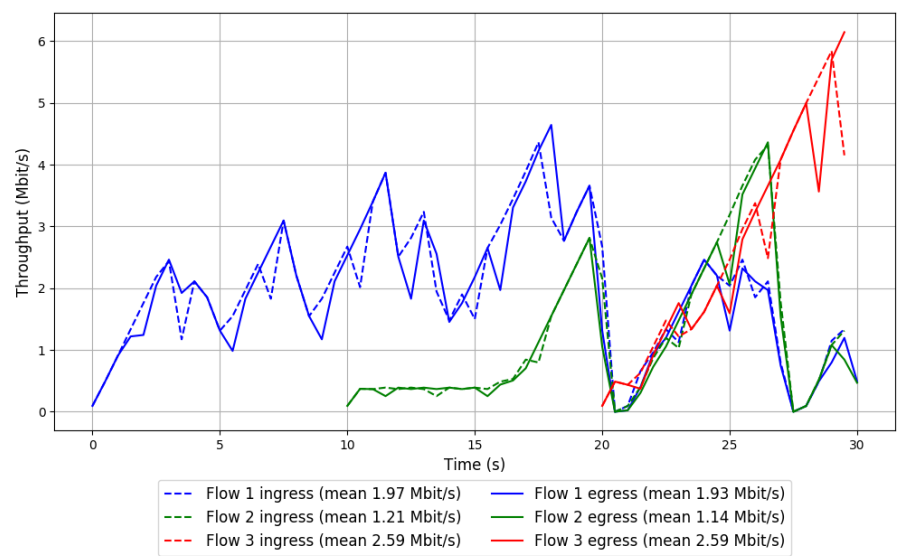
-- Flow 3:

Average throughput: 2.59 Mbit/s

95th percentile per-packet one-way delay: 87.828 ms

Loss rate: 0.00%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-01-02 19:46:03

End at: 2018-01-02 19:46:33

Below is generated by plot.py at 2018-01-02 21:59:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 5.70 Mbit/s

95th percentile per-packet one-way delay: 87.550 ms

Loss rate: 1.20%

-- Flow 1:

Average throughput: 2.79 Mbit/s

95th percentile per-packet one-way delay: 87.690 ms

Loss rate: 0.85%

-- Flow 2:

Average throughput: 3.10 Mbit/s

95th percentile per-packet one-way delay: 87.348 ms

Loss rate: 2.14%

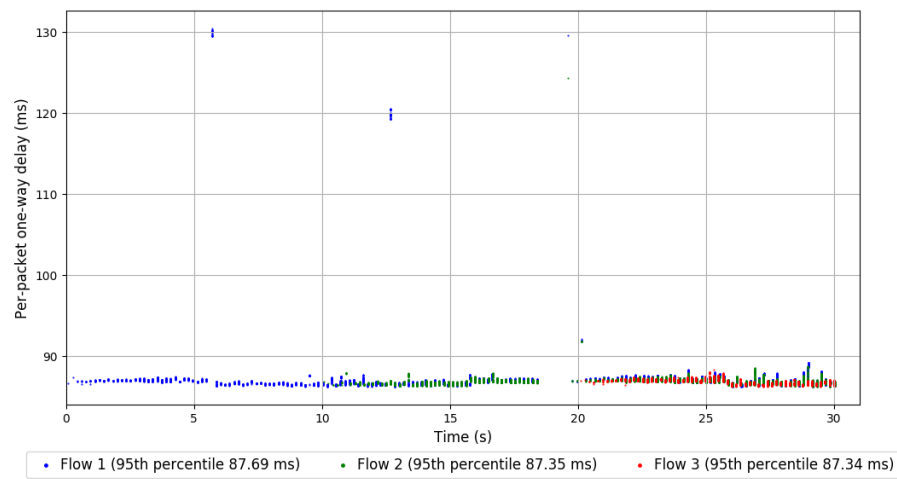
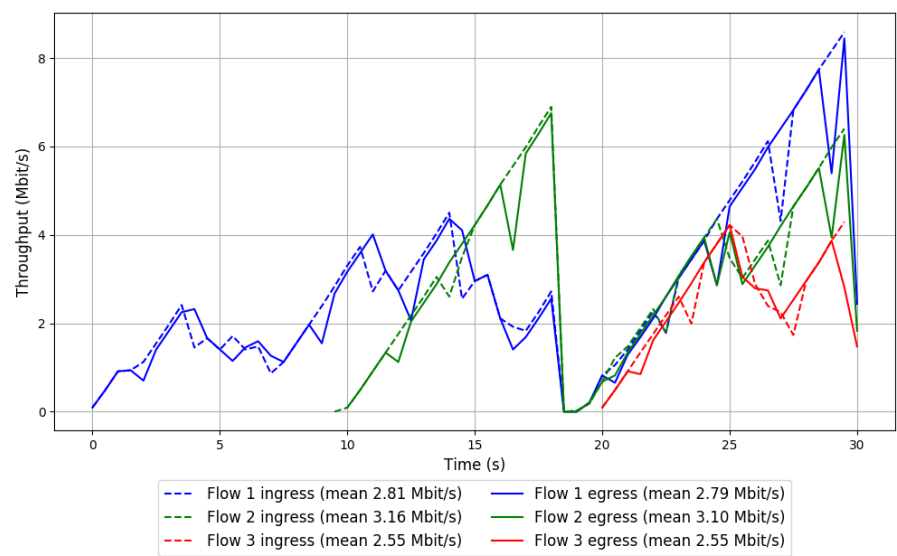
-- Flow 3:

Average throughput: 2.55 Mbit/s

95th percentile per-packet one-way delay: 87.340 ms

Loss rate: 0.00%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-01-02 20:00:39

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

Below is generated by plot.py at 2018-01-02 21:59:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 6.63 Mbit/s

95th percentile per-packet one-way delay: 87.207 ms

Loss rate: 0.52%

-- Flow 1:

Average throughput: 4.94 Mbit/s

95th percentile per-packet one-way delay: 87.185 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 2.37 Mbit/s

95th percentile per-packet one-way delay: 87.263 ms

Loss rate: 2.15%

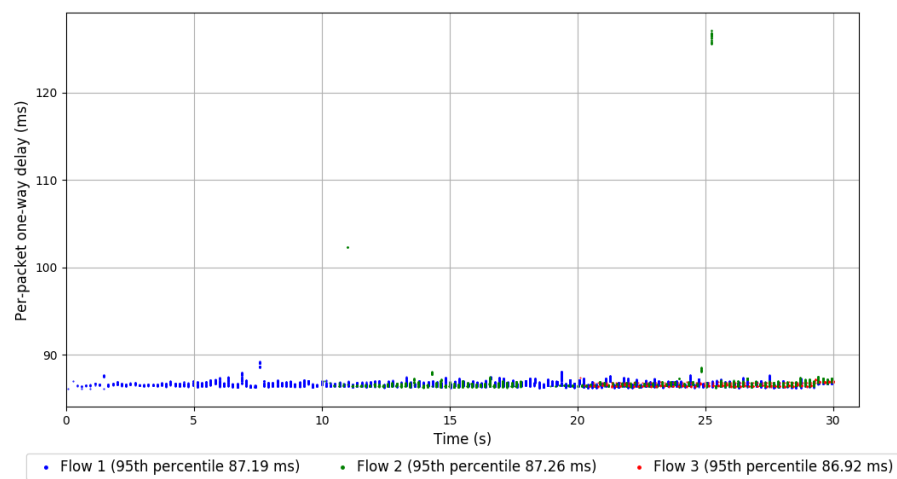
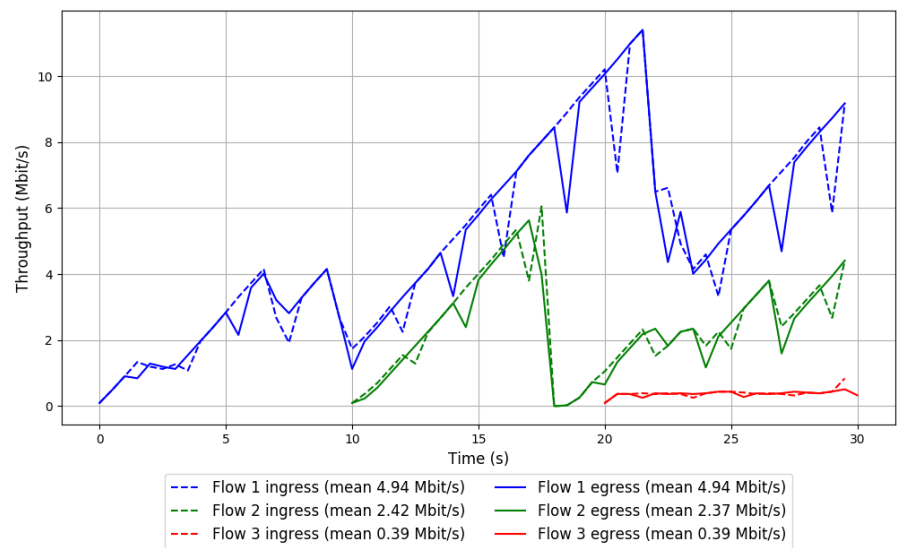
-- Flow 3:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 86.917 ms

Loss rate: 0.00%

Run 9: Report of LEDBAT — Data Link

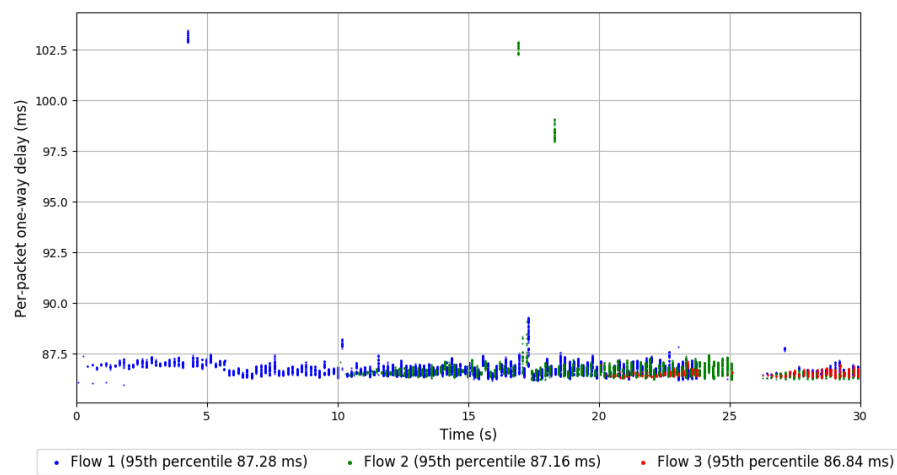
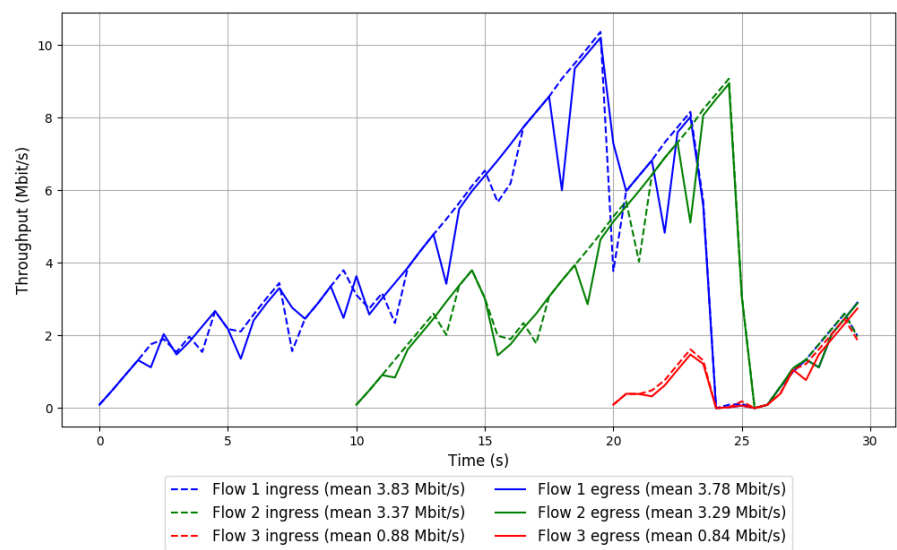


```
Run 10: Statistics of LEDBAT

Start at: 2018-01-02 20:14:53
End at: 2018-01-02 20:15:23

# Below is generated by plot.py at 2018-01-02 21:59:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 6.24 Mbit/s
95th percentile per-packet one-way delay: 87.222 ms
Loss rate: 1.83%
-- Flow 1:
Average throughput: 3.78 Mbit/s
95th percentile per-packet one-way delay: 87.277 ms
Loss rate: 1.31%
-- Flow 2:
Average throughput: 3.29 Mbit/s
95th percentile per-packet one-way delay: 87.159 ms
Loss rate: 2.34%
-- Flow 3:
Average throughput: 0.84 Mbit/s
95th percentile per-packet one-way delay: 86.843 ms
Loss rate: 4.62%
```

Run 10: Report of LEDBAT — Data Link

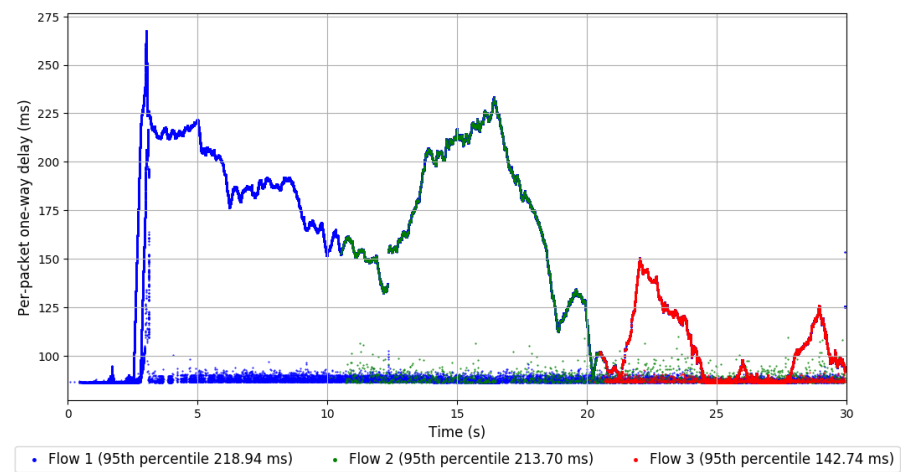
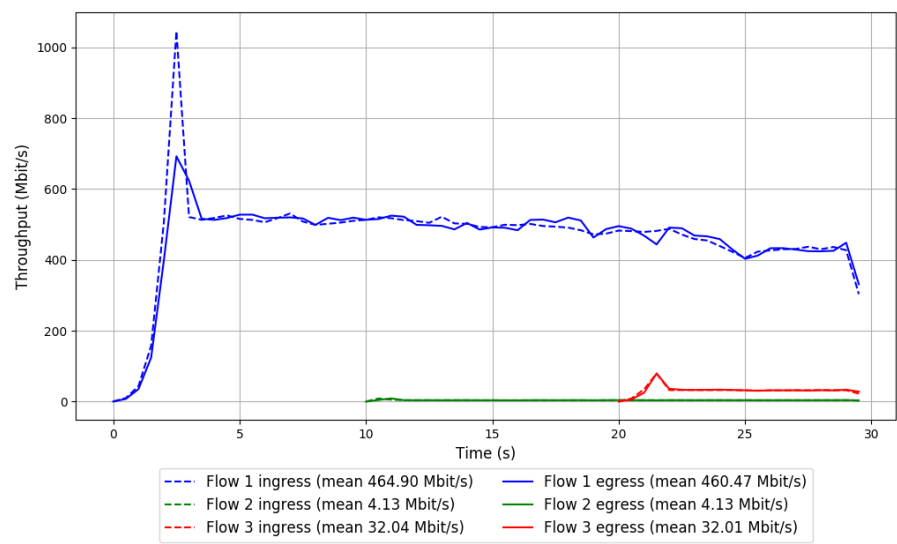


```
Run 1: Statistics of PCC

Start at: 2018-01-02 18:04:34
End at: 2018-01-02 18:05:04

# Below is generated by plot.py at 2018-01-02 22:05:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 473.77 Mbit/s
95th percentile per-packet one-way delay: 218.810 ms
Loss rate: 0.92%
-- Flow 1:
Average throughput: 460.47 Mbit/s
95th percentile per-packet one-way delay: 218.935 ms
Loss rate: 0.94%
-- Flow 2:
Average throughput: 4.13 Mbit/s
95th percentile per-packet one-way delay: 213.697 ms
Loss rate: 0.15%
-- Flow 3:
Average throughput: 32.01 Mbit/s
95th percentile per-packet one-way delay: 142.737 ms
Loss rate: 0.06%
```

Run 1: Report of PCC — Data Link

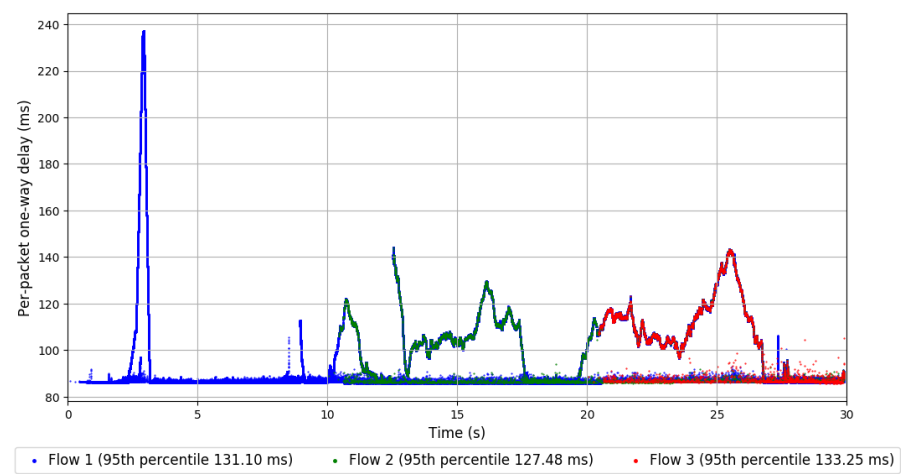
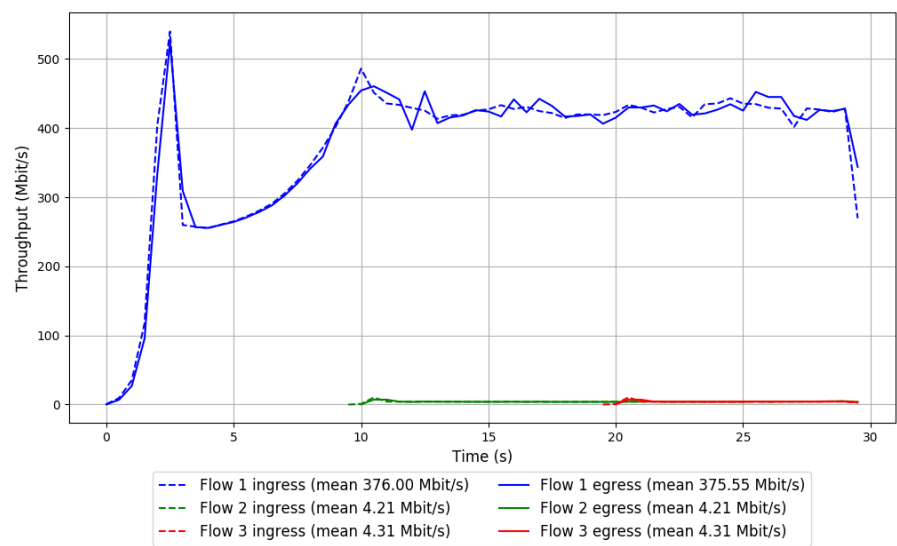


```
Run 2: Statistics of PCC

Start at: 2018-01-02 18:19:38
End at: 2018-01-02 18:20:08

# Below is generated by plot.py at 2018-01-02 22:05:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 379.78 Mbit/s
95th percentile per-packet one-way delay: 131.082 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 375.55 Mbit/s
95th percentile per-packet one-way delay: 131.096 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 4.21 Mbit/s
95th percentile per-packet one-way delay: 127.481 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 4.31 Mbit/s
95th percentile per-packet one-way delay: 133.255 ms
Loss rate: 0.00%
```

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2018-01-02 18:34:28

End at: 2018-01-02 18:34:58

Below is generated by plot.py at 2018-01-02 22:05:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 439.28 Mbit/s

95th percentile per-packet one-way delay: 224.918 ms

Loss rate: 1.43%

-- Flow 1:

Average throughput: 436.38 Mbit/s

95th percentile per-packet one-way delay: 224.946 ms

Loss rate: 1.44%

-- Flow 2:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 221.953 ms

Loss rate: 0.34%

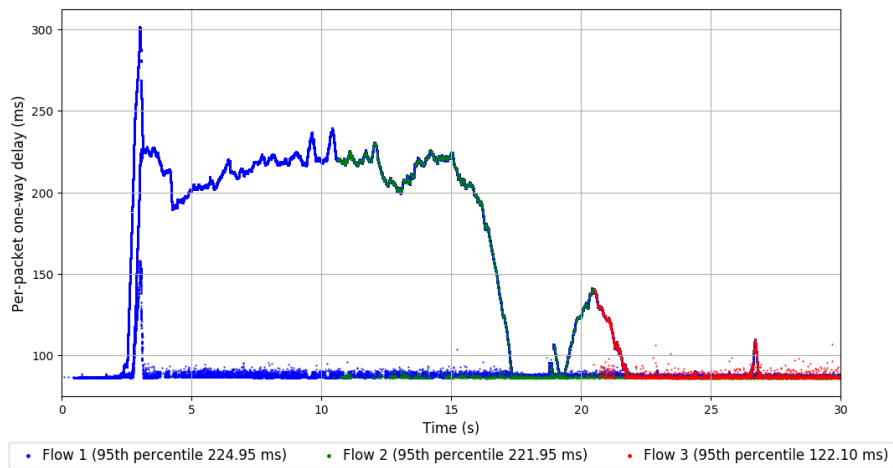
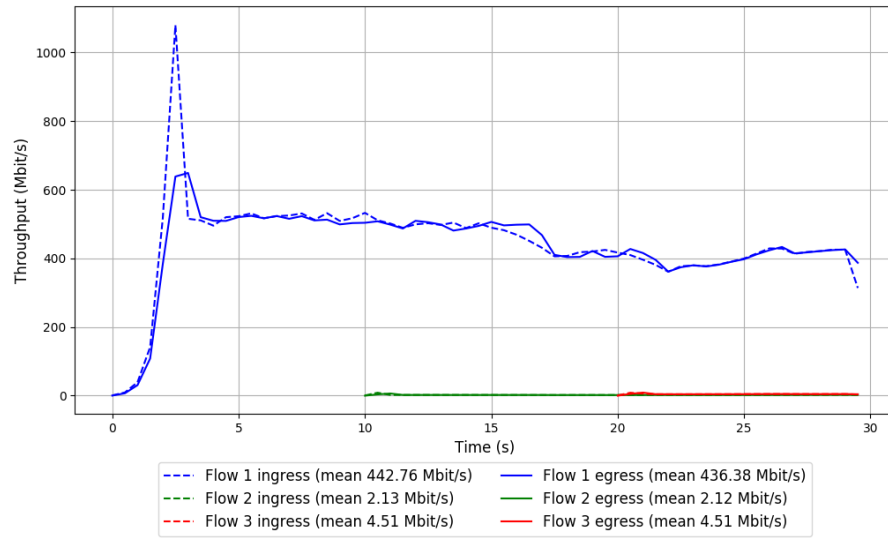
-- Flow 3:

Average throughput: 4.51 Mbit/s

95th percentile per-packet one-way delay: 122.104 ms

Loss rate: 0.00%

Run 3: Report of PCC — Data Link

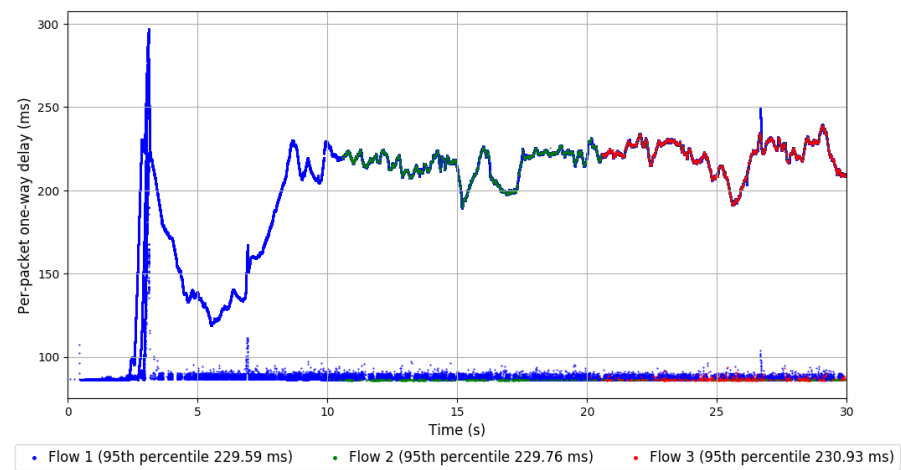
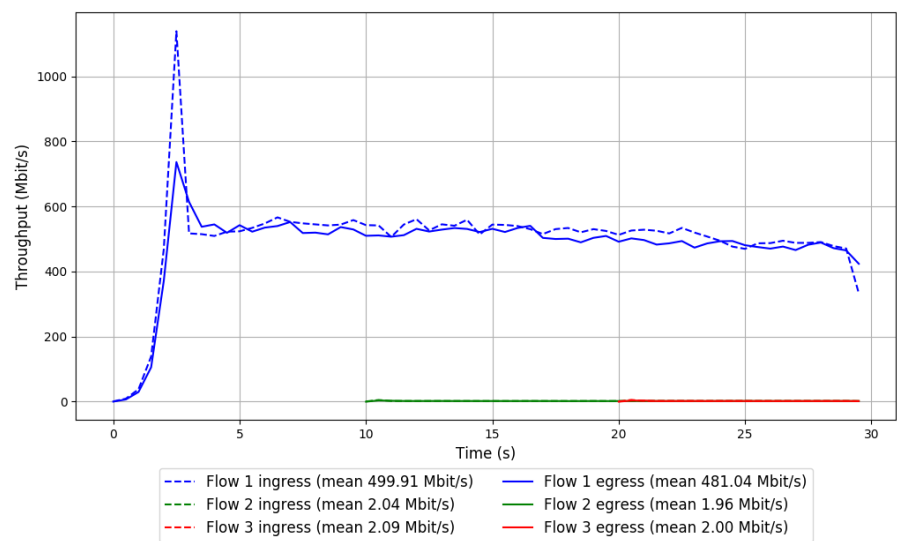


```
Run 4: Statistics of PCC

Start at: 2018-01-02 18:49:14
End at: 2018-01-02 18:49:44

# Below is generated by plot.py at 2018-01-02 22:05:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 483.00 Mbit/s
95th percentile per-packet one-way delay: 229.597 ms
Loss rate: 3.77%
-- Flow 1:
Average throughput: 481.04 Mbit/s
95th percentile per-packet one-way delay: 229.593 ms
Loss rate: 3.76%
-- Flow 2:
Average throughput: 1.96 Mbit/s
95th percentile per-packet one-way delay: 229.765 ms
Loss rate: 3.76%
-- Flow 3:
Average throughput: 2.00 Mbit/s
95th percentile per-packet one-way delay: 230.931 ms
Loss rate: 4.66%
```

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2018-01-02 19:03:47

End at: 2018-01-02 19:04:17

Below is generated by plot.py at 2018-01-02 22:05:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 389.95 Mbit/s

95th percentile per-packet one-way delay: 173.982 ms

Loss rate: 0.38%

-- Flow 1:

Average throughput: 290.06 Mbit/s

95th percentile per-packet one-way delay: 173.185 ms

Loss rate: 0.32%

-- Flow 2:

Average throughput: 118.83 Mbit/s

95th percentile per-packet one-way delay: 184.640 ms

Loss rate: 0.62%

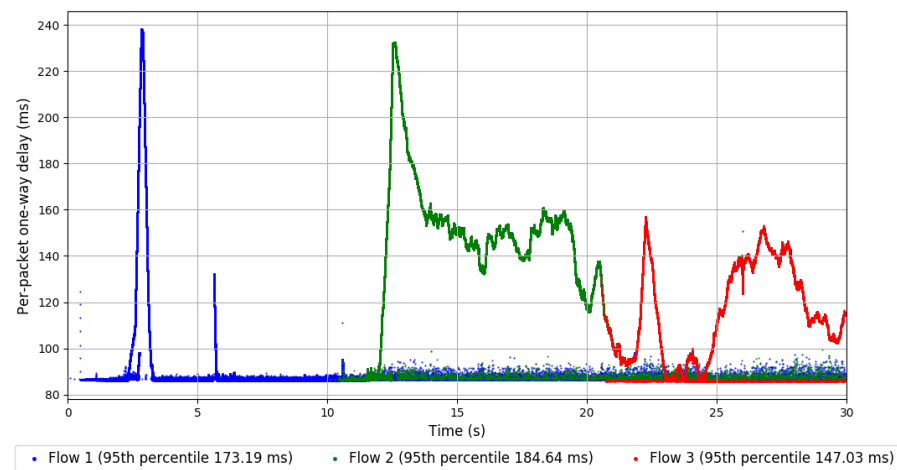
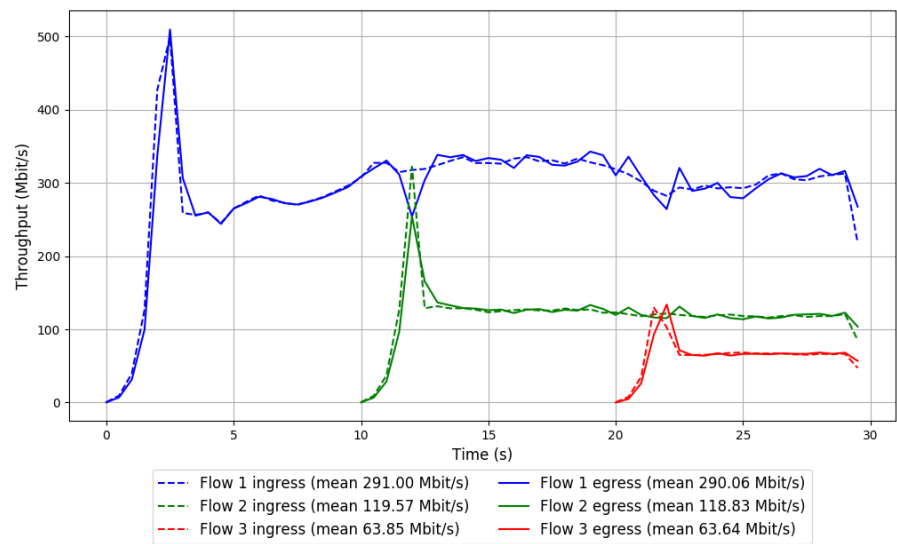
-- Flow 3:

Average throughput: 63.64 Mbit/s

95th percentile per-packet one-way delay: 147.035 ms

Loss rate: 0.30%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2018-01-02 19:18:01

End at: 2018-01-02 19:18:31

Below is generated by plot.py at 2018-01-02 22:06:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 468.93 Mbit/s

95th percentile per-packet one-way delay: 226.427 ms

Loss rate: 2.14%

-- Flow 1:

Average throughput: 389.61 Mbit/s

95th percentile per-packet one-way delay: 227.040 ms

Loss rate: 2.24%

-- Flow 2:

Average throughput: 118.35 Mbit/s

95th percentile per-packet one-way delay: 224.337 ms

Loss rate: 1.69%

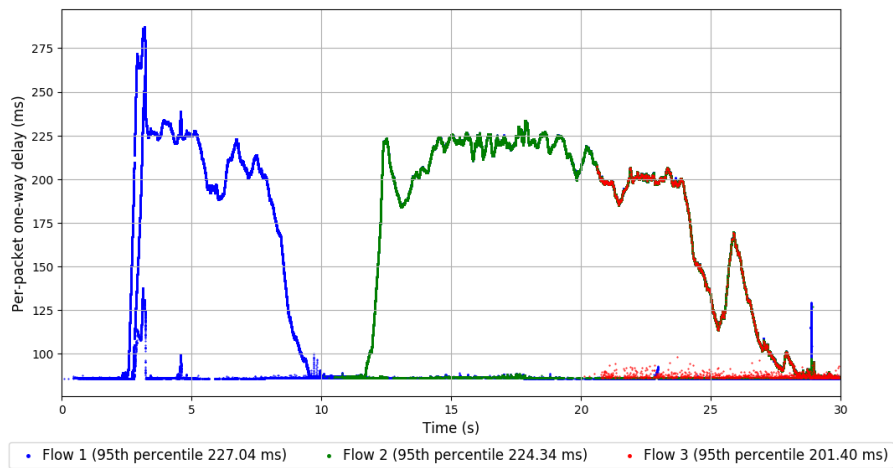
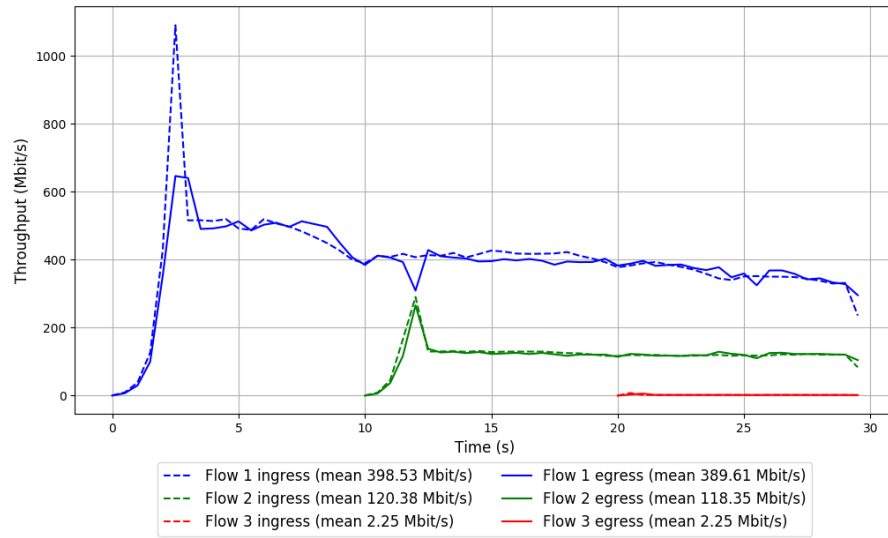
-- Flow 3:

Average throughput: 2.25 Mbit/s

95th percentile per-packet one-way delay: 201.398 ms

Loss rate: 0.00%

Run 6: Report of PCC — Data Link

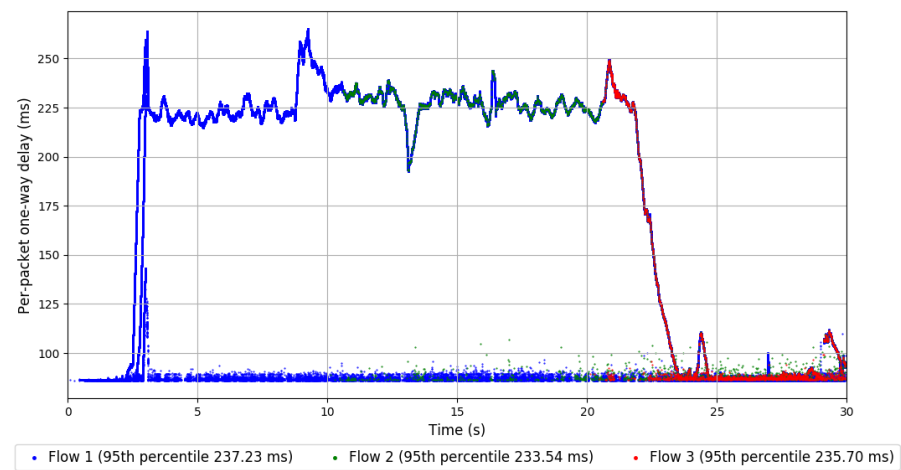
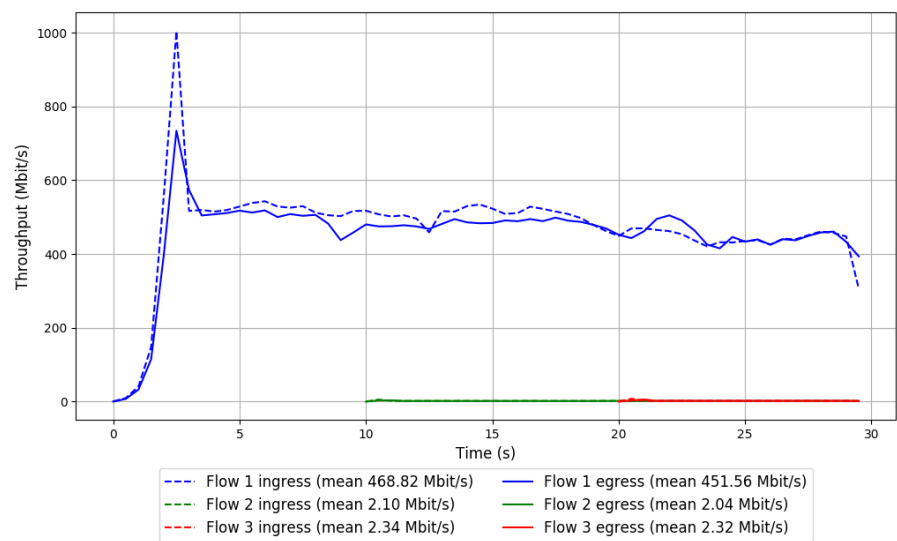


```
Run 7: Statistics of PCC

Start at: 2018-01-02 19:32:18
End at: 2018-01-02 19:32:48

# Below is generated by plot.py at 2018-01-02 22:07:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 453.69 Mbit/s
95th percentile per-packet one-way delay: 237.194 ms
Loss rate: 3.65%
-- Flow 1:
Average throughput: 451.56 Mbit/s
95th percentile per-packet one-way delay: 237.228 ms
Loss rate: 3.66%
-- Flow 2:
Average throughput: 2.04 Mbit/s
95th percentile per-packet one-way delay: 233.544 ms
Loss rate: 2.68%
-- Flow 3:
Average throughput: 2.32 Mbit/s
95th percentile per-packet one-way delay: 235.696 ms
Loss rate: 0.78%
```


Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2018-01-02 19:46:47

End at: 2018-01-02 19:47:17

Below is generated by plot.py at 2018-01-02 22:07:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 380.67 Mbit/s

95th percentile per-packet one-way delay: 157.400 ms

Loss rate: 0.15%

-- Flow 1:

Average throughput: 337.37 Mbit/s

95th percentile per-packet one-way delay: 157.358 ms

Loss rate: 0.17%

-- Flow 2:

Average throughput: 62.97 Mbit/s

95th percentile per-packet one-way delay: 157.775 ms

Loss rate: 0.00%

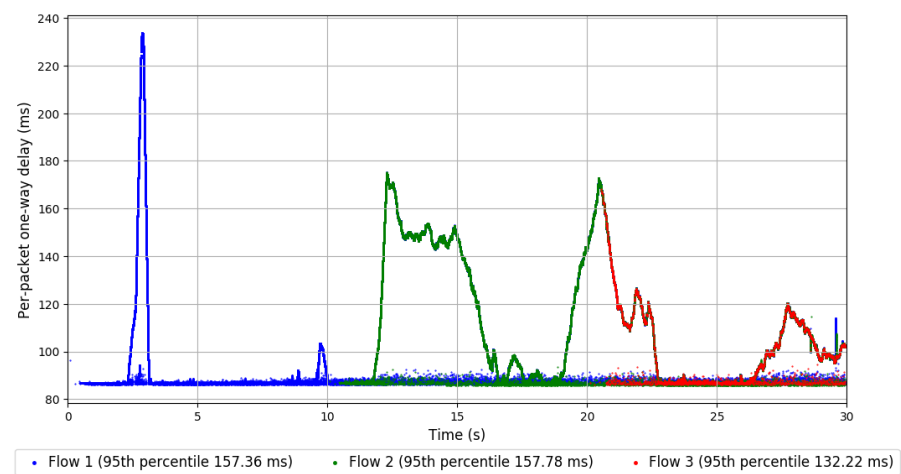
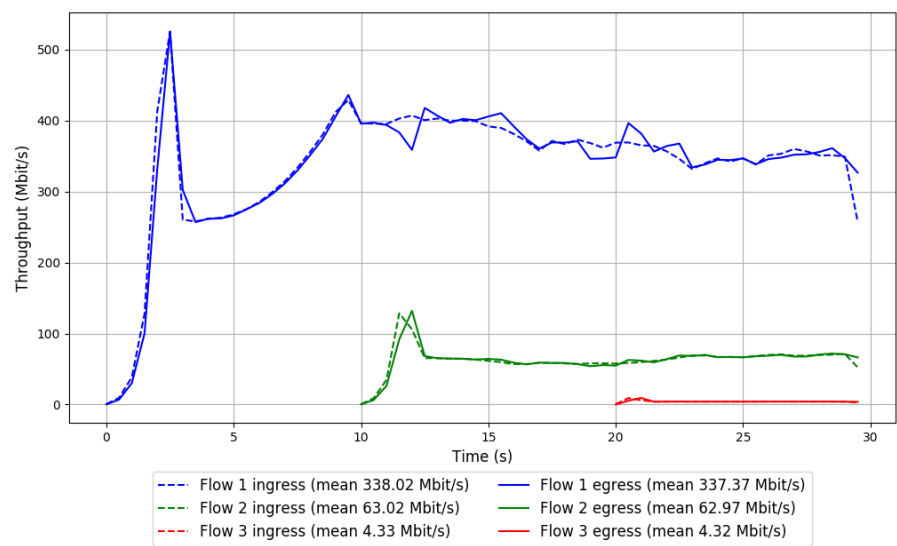
-- Flow 3:

Average throughput: 4.32 Mbit/s

95th percentile per-packet one-way delay: 132.221 ms

Loss rate: 0.00%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2018-01-02 20:01:23

End at: 2018-01-02 20:01:53

Below is generated by plot.py at 2018-01-02 22:11:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 410.06 Mbit/s

95th percentile per-packet one-way delay: 219.803 ms

Loss rate: 0.47%

-- Flow 1:

Average throughput: 406.50 Mbit/s

95th percentile per-packet one-way delay: 219.789 ms

Loss rate: 0.47%

-- Flow 2:

Average throughput: 4.21 Mbit/s

95th percentile per-packet one-way delay: 219.884 ms

Loss rate: 0.49%

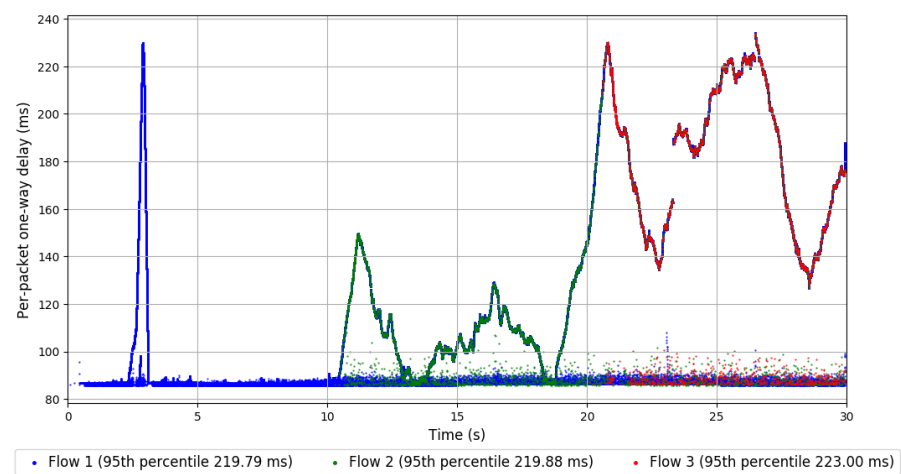
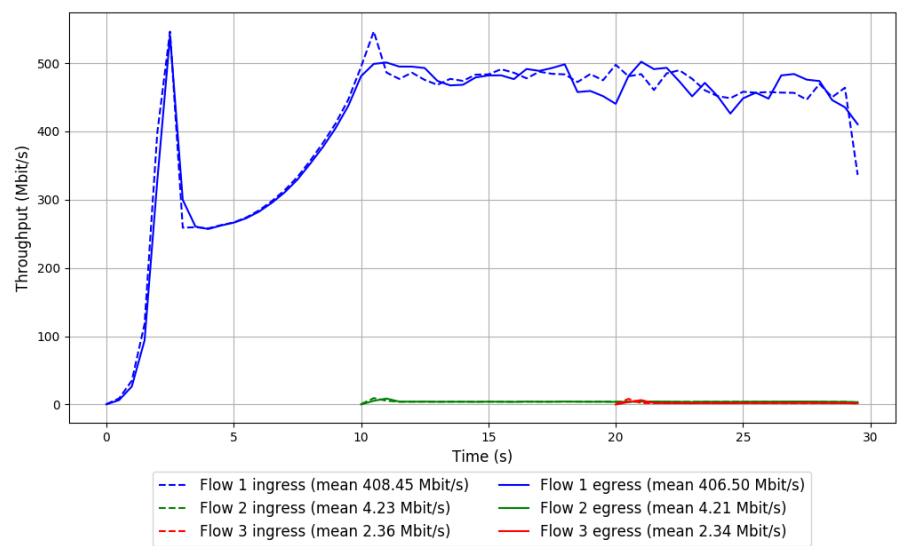
-- Flow 3:

Average throughput: 2.34 Mbit/s

95th percentile per-packet one-way delay: 222.995 ms

Loss rate: 0.88%

Run 9: Report of PCC — Data Link

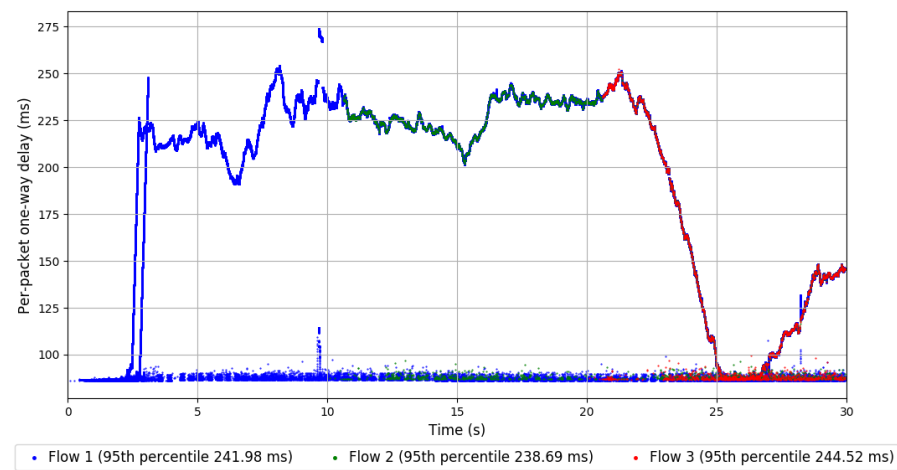
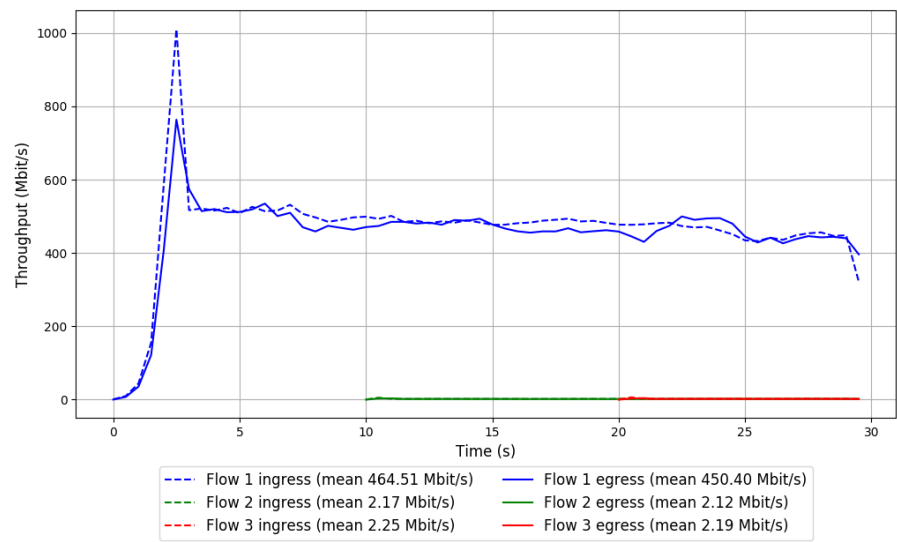


```
Run 10: Statistics of PCC

Start at: 2018-01-02 20:15:37
End at: 2018-01-02 20:16:07

# Below is generated by plot.py at 2018-01-02 22:12:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 452.53 Mbit/s
95th percentile per-packet one-way delay: 241.985 ms
Loss rate: 3.04%
-- Flow 1:
Average throughput: 450.40 Mbit/s
95th percentile per-packet one-way delay: 241.984 ms
Loss rate: 3.04%
-- Flow 2:
Average throughput: 2.12 Mbit/s
95th percentile per-packet one-way delay: 238.693 ms
Loss rate: 2.59%
-- Flow 3:
Average throughput: 2.19 Mbit/s
95th percentile per-packet one-way delay: 244.517 ms
Loss rate: 2.49%
```

Run 10: Report of PCC — Data Link

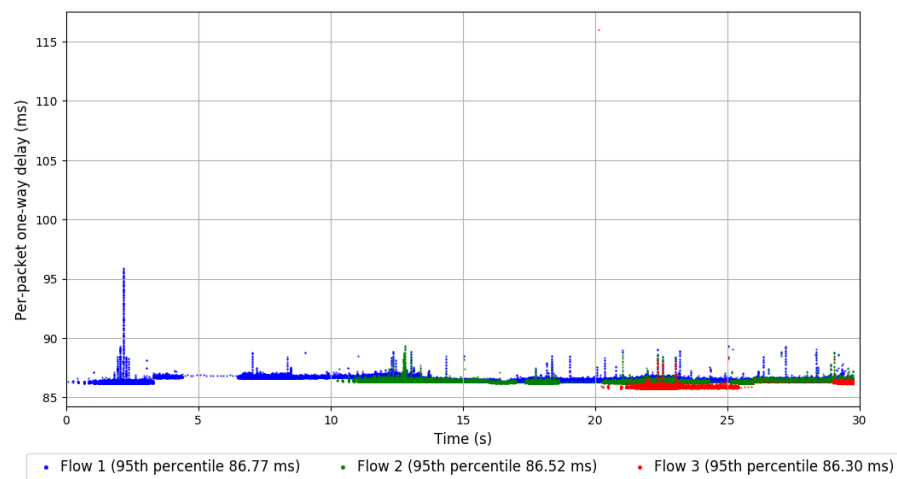
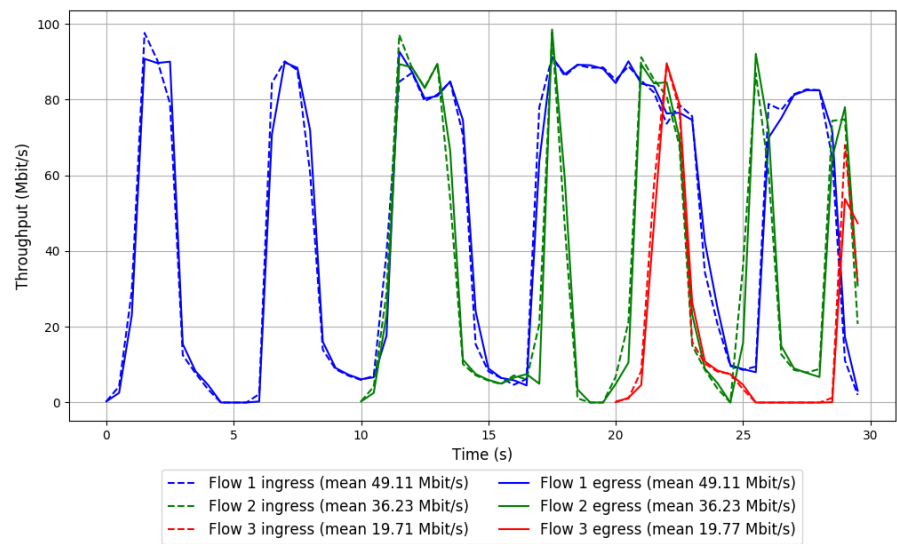


```
Run 1: Statistics of QUIC Cubic

Start at: 2018-01-02 18:02:05
End at: 2018-01-02 18:02:35

# Below is generated by plot.py at 2018-01-02 22:12:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 79.54 Mbit/s
95th percentile per-packet one-way delay: 86.728 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 49.11 Mbit/s
95th percentile per-packet one-way delay: 86.767 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 36.23 Mbit/s
95th percentile per-packet one-way delay: 86.522 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 19.77 Mbit/s
95th percentile per-packet one-way delay: 86.301 ms
Loss rate: 0.00%
```


Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-01-02 18:17:07

End at: 2018-01-02 18:17:37

Below is generated by plot.py at 2018-01-02 22:12:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.73 Mbit/s

95th percentile per-packet one-way delay: 86.433 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 57.25 Mbit/s

95th percentile per-packet one-way delay: 86.390 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 38.80 Mbit/s

95th percentile per-packet one-way delay: 86.459 ms

Loss rate: 0.00%

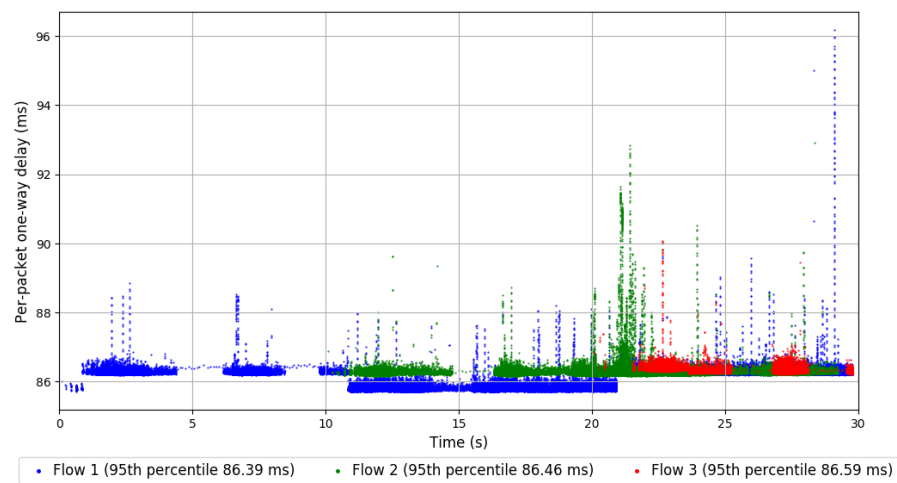
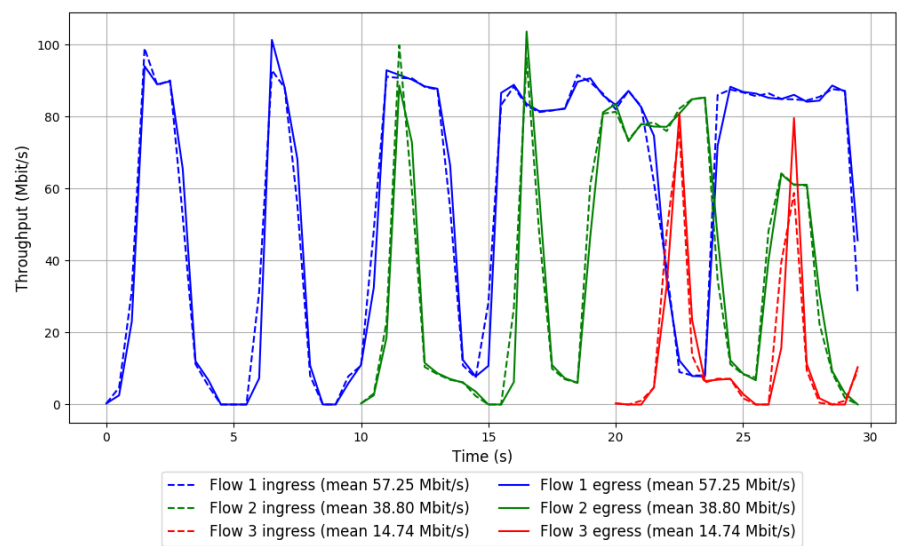
-- Flow 3:

Average throughput: 14.74 Mbit/s

95th percentile per-packet one-way delay: 86.589 ms

Loss rate: 0.00%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-01-02 18:31:58

End at: 2018-01-02 18:32:28

Below is generated by plot.py at 2018-01-02 22:12:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.44 Mbit/s

95th percentile per-packet one-way delay: 86.782 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 56.66 Mbit/s

95th percentile per-packet one-way delay: 86.819 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 42.72 Mbit/s

95th percentile per-packet one-way delay: 86.385 ms

Loss rate: 0.00%

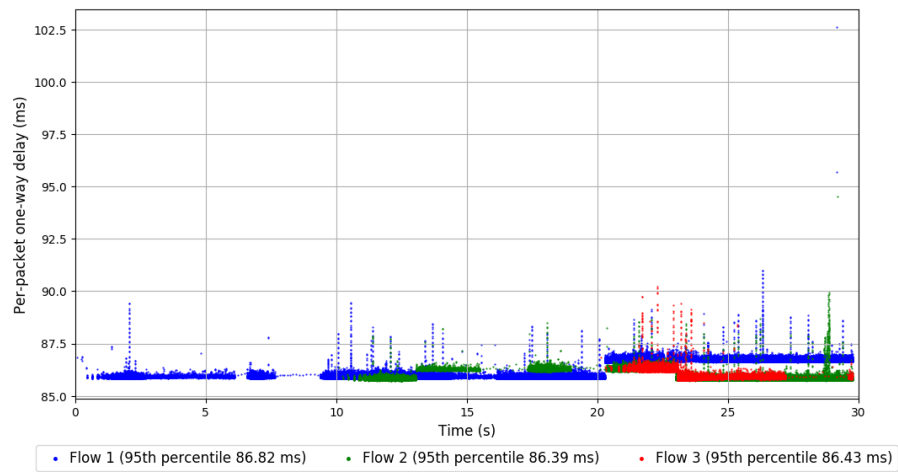
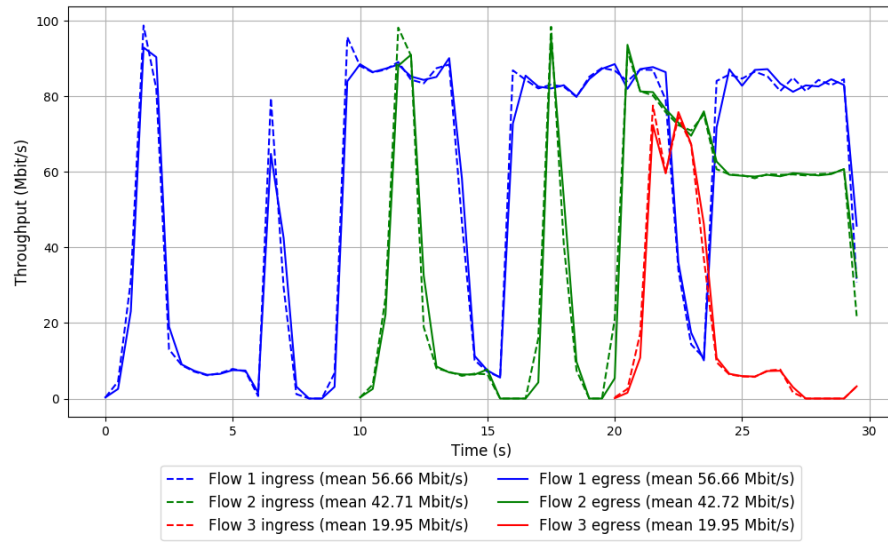
-- Flow 3:

Average throughput: 19.95 Mbit/s

95th percentile per-packet one-way delay: 86.432 ms

Loss rate: 0.00%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-01-02 18:46:47

End at: 2018-01-02 18:47:17

Below is generated by plot.py at 2018-01-02 22:12:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 80.91 Mbit/s

95th percentile per-packet one-way delay: 86.401 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 49.56 Mbit/s

95th percentile per-packet one-way delay: 86.360 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 30.54 Mbit/s

95th percentile per-packet one-way delay: 86.453 ms

Loss rate: 0.00%

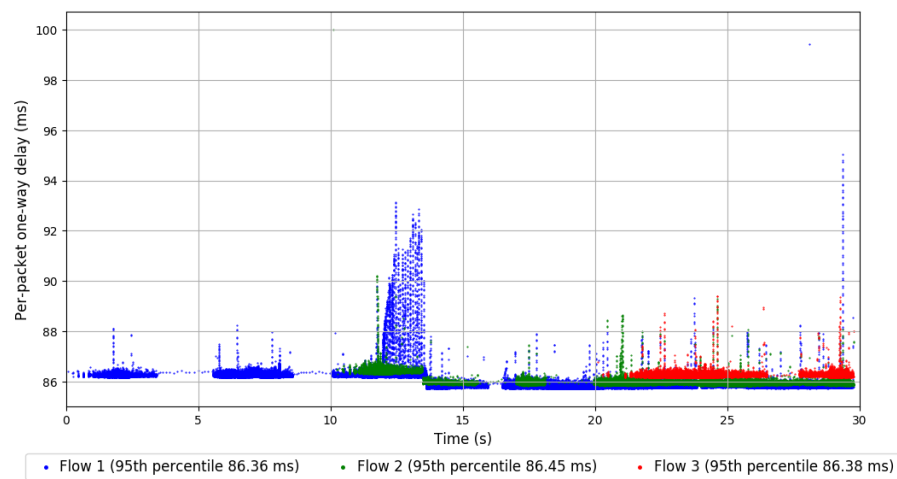
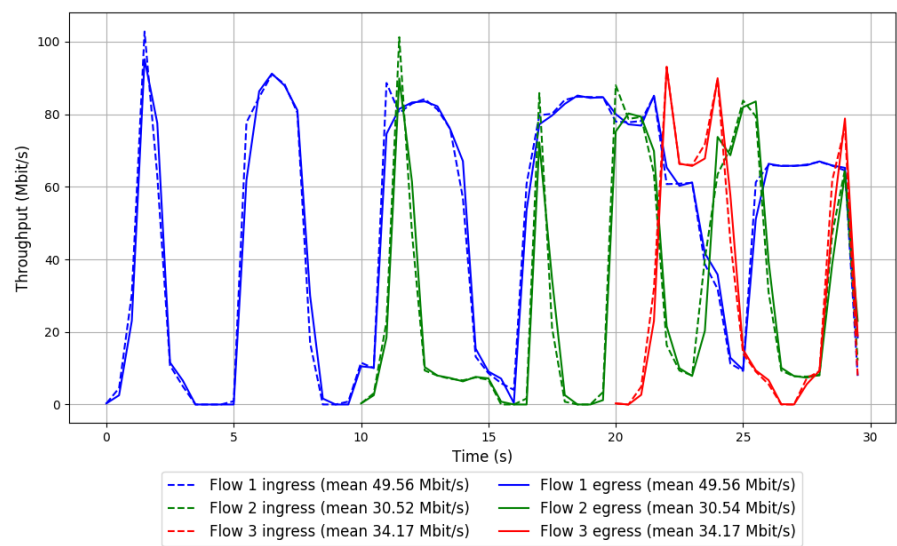
-- Flow 3:

Average throughput: 34.17 Mbit/s

95th percentile per-packet one-way delay: 86.379 ms

Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

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

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

Below is generated by plot.py at 2018-01-02 22:12:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.90 Mbit/s

95th percentile per-packet one-way delay: 86.692 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 52.65 Mbit/s

95th percentile per-packet one-way delay: 86.509 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 38.05 Mbit/s

95th percentile per-packet one-way delay: 86.768 ms

Loss rate: 0.00%

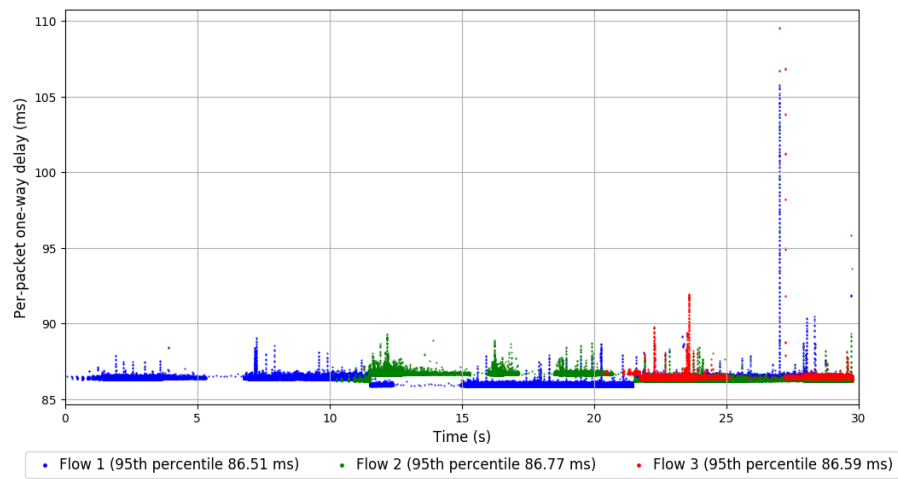
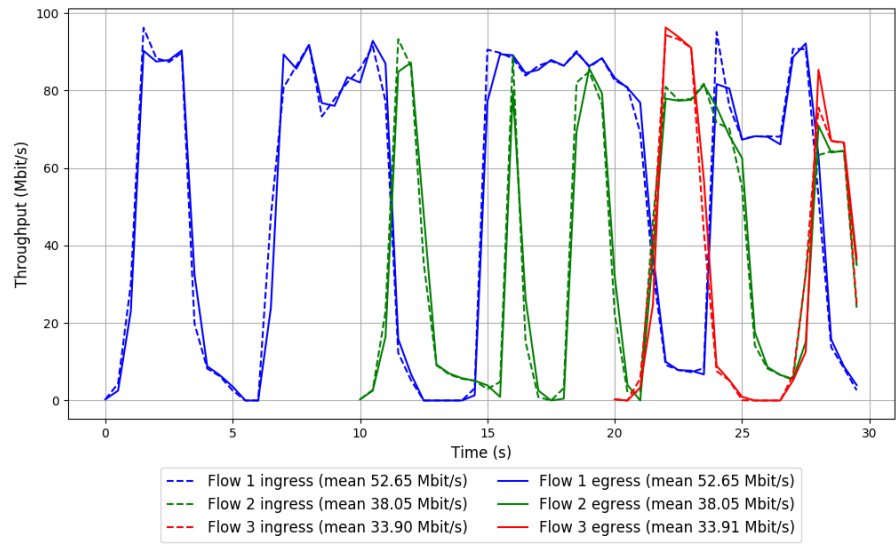
-- Flow 3:

Average throughput: 33.91 Mbit/s

95th percentile per-packet one-way delay: 86.586 ms

Loss rate: 0.00%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-01-02 19:15:30

End at: 2018-01-02 19:16:00

Below is generated by plot.py at 2018-01-02 22:12:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.75 Mbit/s

95th percentile per-packet one-way delay: 86.742 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 53.47 Mbit/s

95th percentile per-packet one-way delay: 86.468 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 45.22 Mbit/s

95th percentile per-packet one-way delay: 86.812 ms

Loss rate: 0.00%

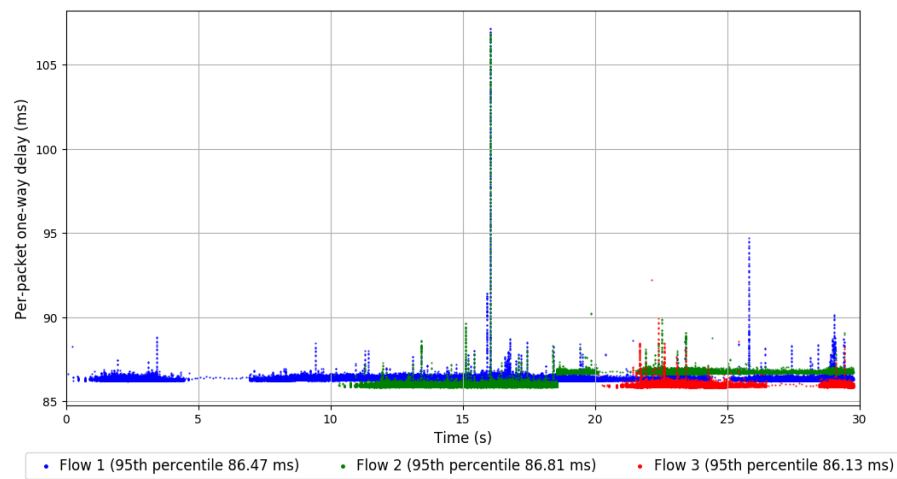
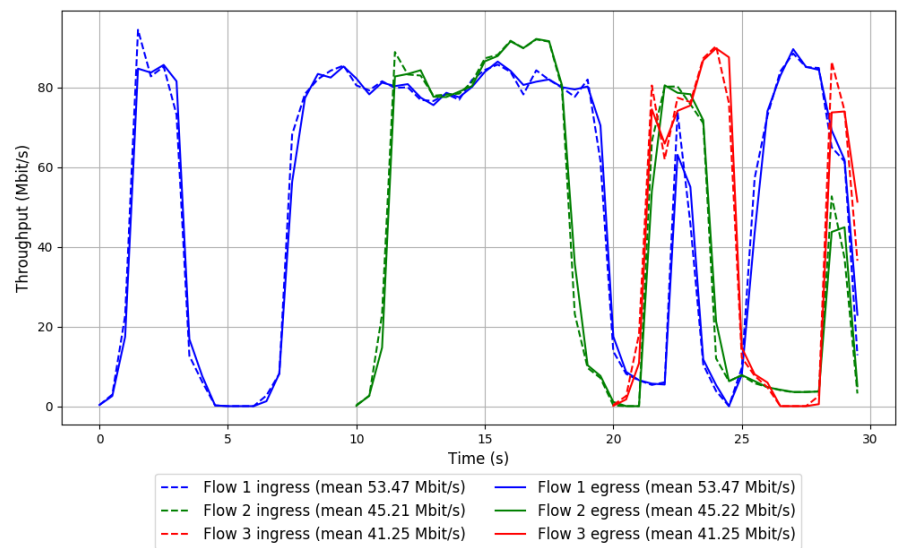
-- Flow 3:

Average throughput: 41.25 Mbit/s

95th percentile per-packet one-way delay: 86.126 ms

Loss rate: 0.02%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-01-02 19:29:49

End at: 2018-01-02 19:30:19

Below is generated by plot.py at 2018-01-02 22:12:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 108.27 Mbit/s

95th percentile per-packet one-way delay: 86.384 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 60.37 Mbit/s

95th percentile per-packet one-way delay: 86.147 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 45.25 Mbit/s

95th percentile per-packet one-way delay: 86.489 ms

Loss rate: 0.00%

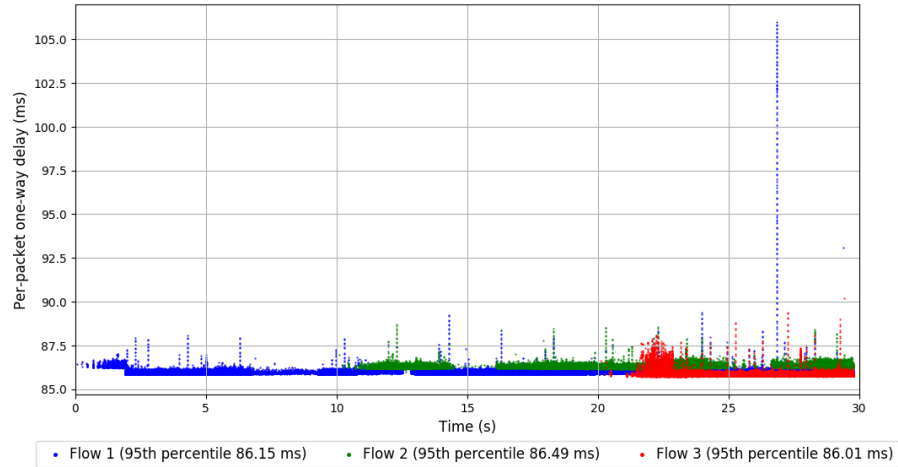
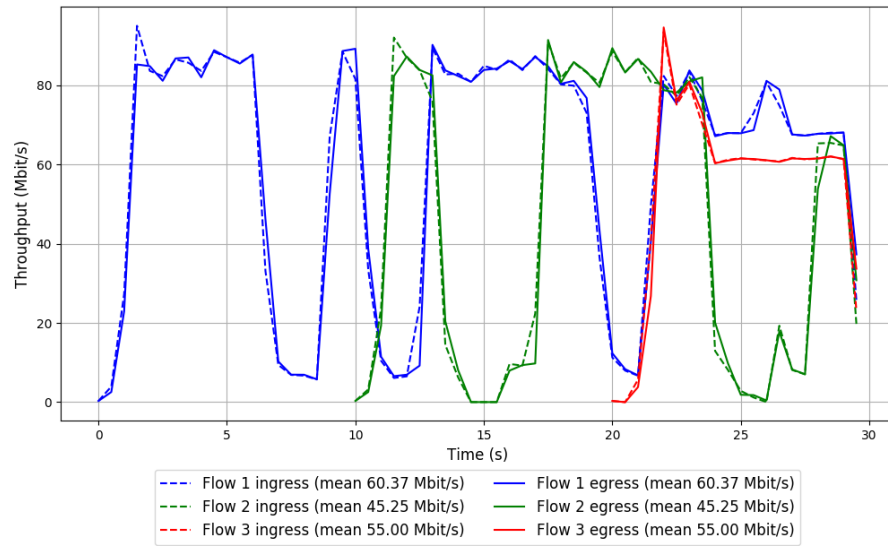
-- Flow 3:

Average throughput: 55.00 Mbit/s

95th percentile per-packet one-way delay: 86.011 ms

Loss rate: 0.00%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-01-02 19:44:16

End at: 2018-01-02 19:44:46

Below is generated by plot.py at 2018-01-02 22:12:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.04 Mbit/s

95th percentile per-packet one-way delay: 86.533 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 43.37 Mbit/s

95th percentile per-packet one-way delay: 86.544 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 53.26 Mbit/s

95th percentile per-packet one-way delay: 86.307 ms

Loss rate: 0.00%

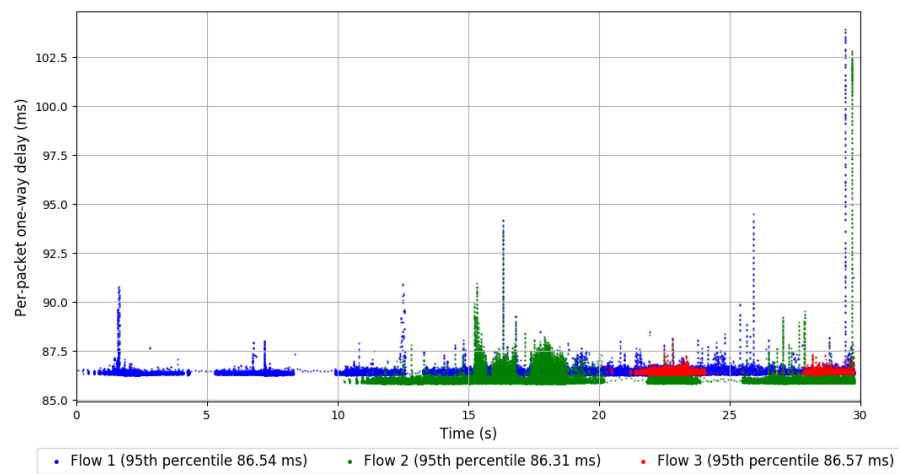
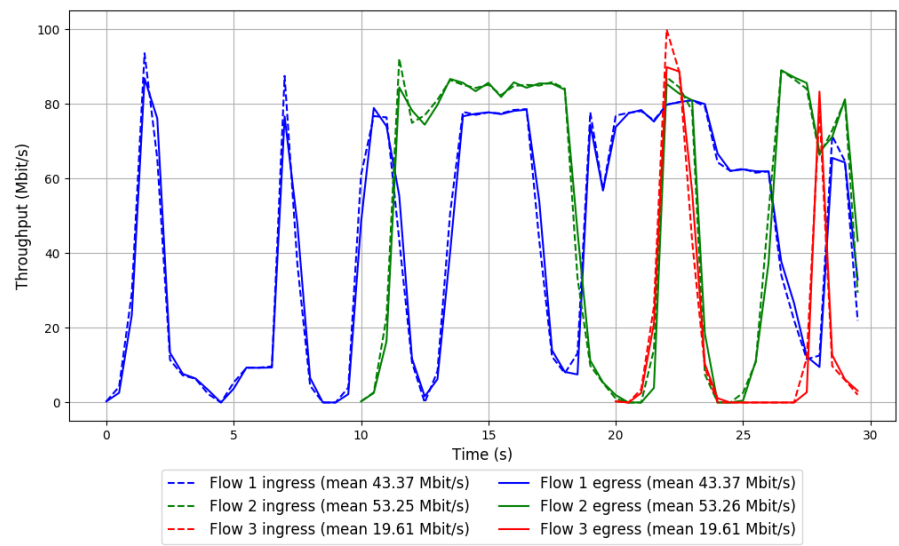
-- Flow 3:

Average throughput: 19.61 Mbit/s

95th percentile per-packet one-way delay: 86.572 ms

Loss rate: 0.00%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-01-02 19:58:57

End at: 2018-01-02 19:59:27

Below is generated by plot.py at 2018-01-02 22:12:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 77.51 Mbit/s

95th percentile per-packet one-way delay: 86.413 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 48.27 Mbit/s

95th percentile per-packet one-way delay: 86.395 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 34.34 Mbit/s

95th percentile per-packet one-way delay: 86.443 ms

Loss rate: 0.00%

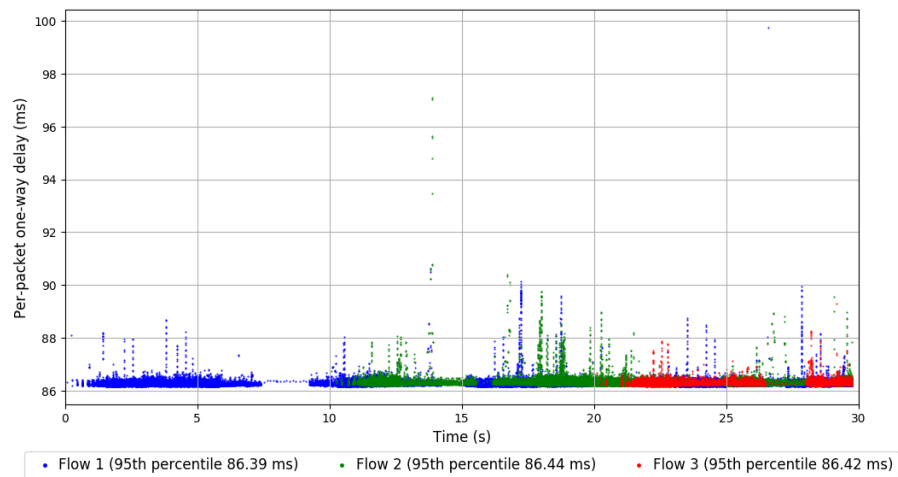
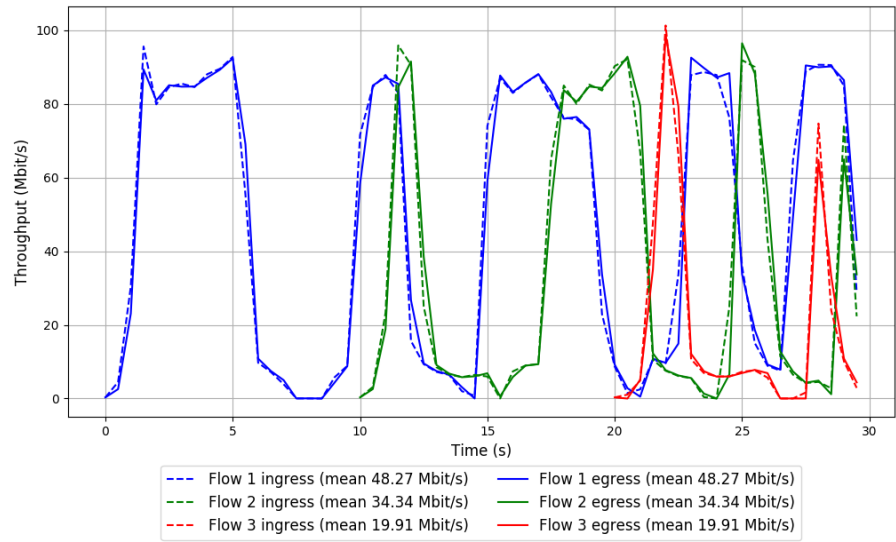
-- Flow 3:

Average throughput: 19.91 Mbit/s

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

Loss rate: 0.00%

Run 9: Report of QUIC Cubic — Data Link

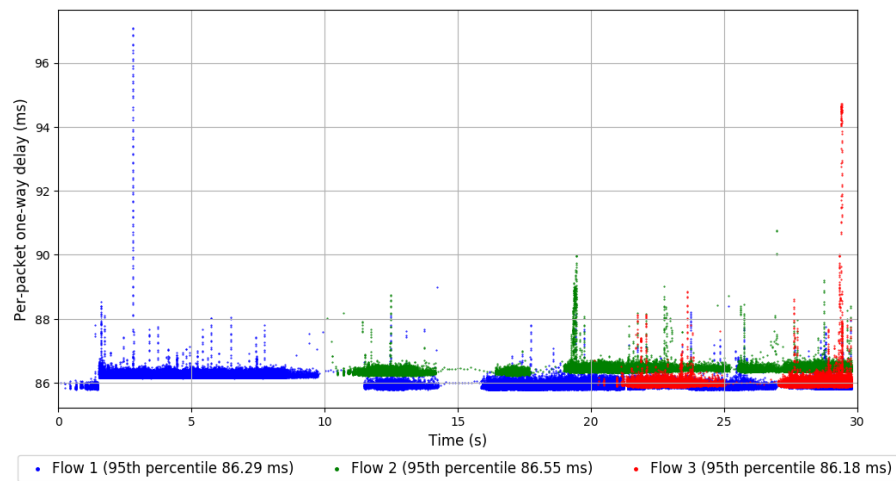
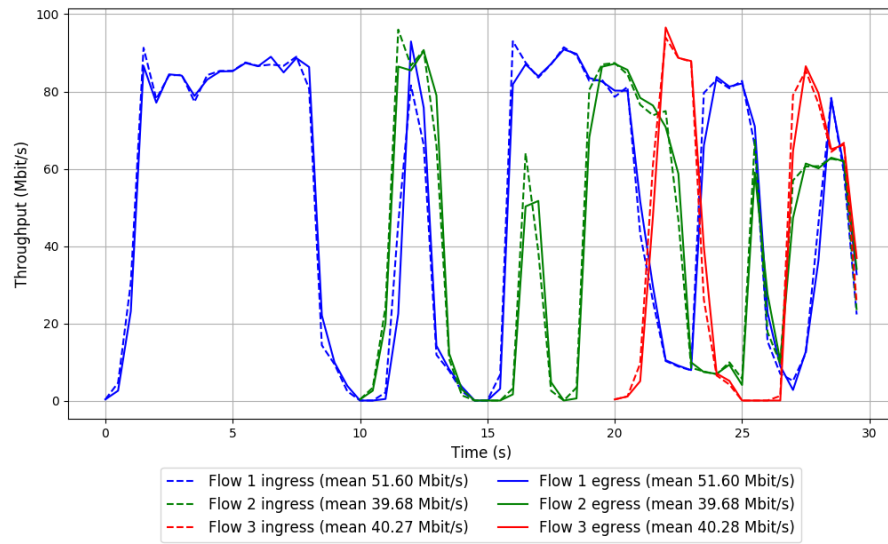


```
Run 10: Statistics of QUIC Cubic

Start at: 2018-01-02 20:13:09
End at: 2018-01-02 20:13:40

# Below is generated by plot.py at 2018-01-02 22:12:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.00 Mbit/s
95th percentile per-packet one-way delay: 86.481 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 51.60 Mbit/s
95th percentile per-packet one-way delay: 86.291 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 39.68 Mbit/s
95th percentile per-packet one-way delay: 86.552 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 40.28 Mbit/s
95th percentile per-packet one-way delay: 86.180 ms
Loss rate: 0.00%
```

Run 10: Report of QUIC Cubic — Data Link

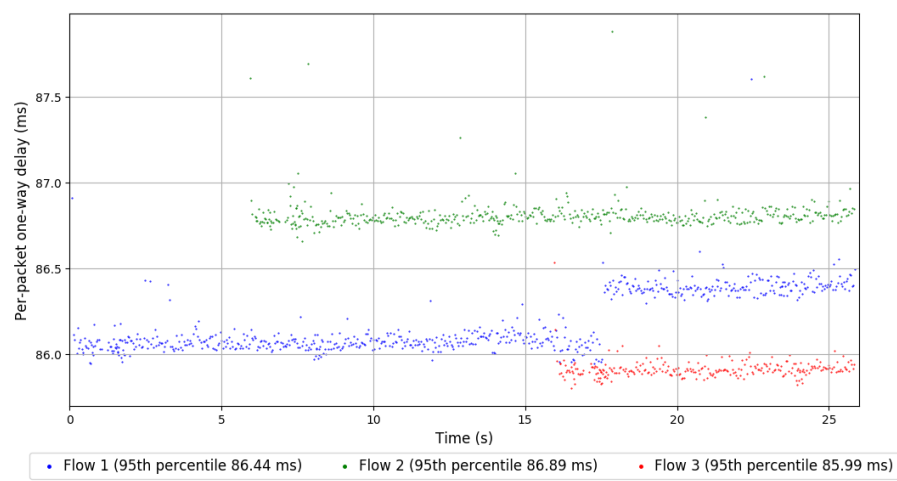
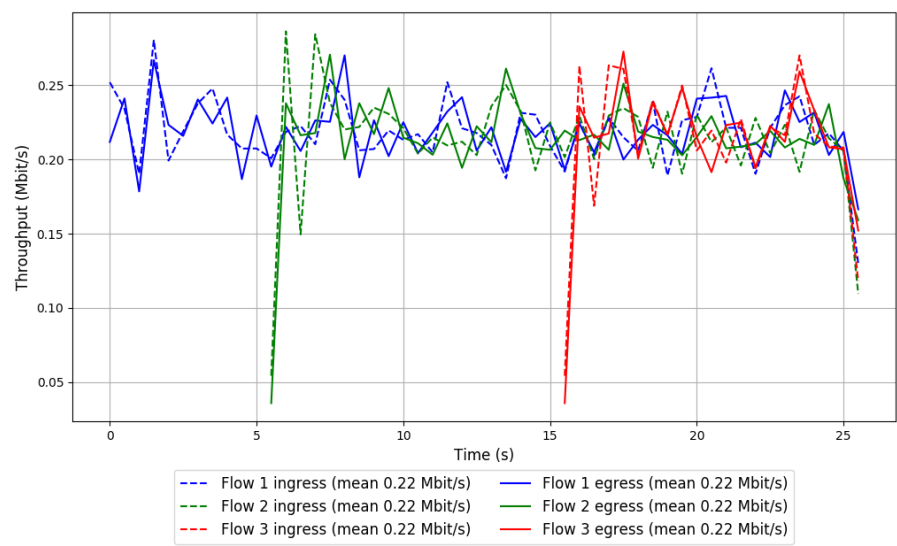


```
Run 1: Statistics of SCReAM

Start at: 2018-01-02 18:06:47
End at: 2018-01-02 18:07:17

# Below is generated by plot.py at 2018-01-02 22:12:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.48 Mbit/s
95th percentile per-packet one-way delay: 86.847 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.444 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.893 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 85.986 ms
Loss rate: 0.00%
```

Run 1: Report of SCRaM — Data Link

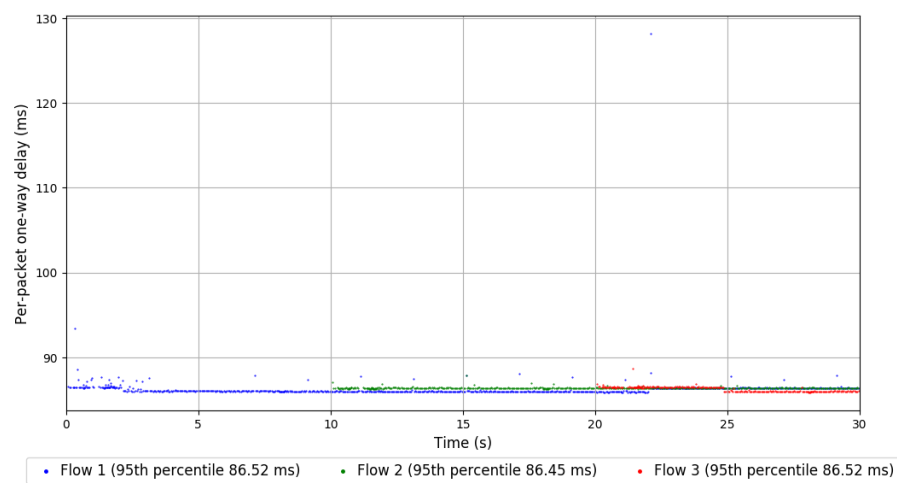
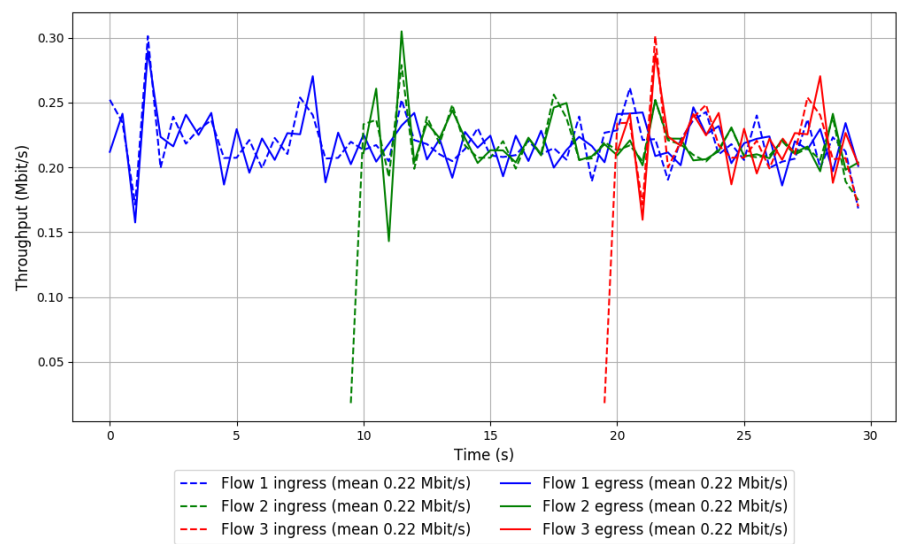


```
Run 2: Statistics of SCReAM

Start at: 2018-01-02 18:21:46
End at: 2018-01-02 18:22:16

# Below is generated by plot.py at 2018-01-02 22:12:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 86.510 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.522 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.446 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.524 ms
Loss rate: 0.00%
```

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-01-02 18:36:39

End at: 2018-01-02 18:37:09

Below is generated by plot.py at 2018-01-02 22:12:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.47 Mbit/s

95th percentile per-packet one-way delay: 86.779 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.478 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.481 ms

Loss rate: 0.00%

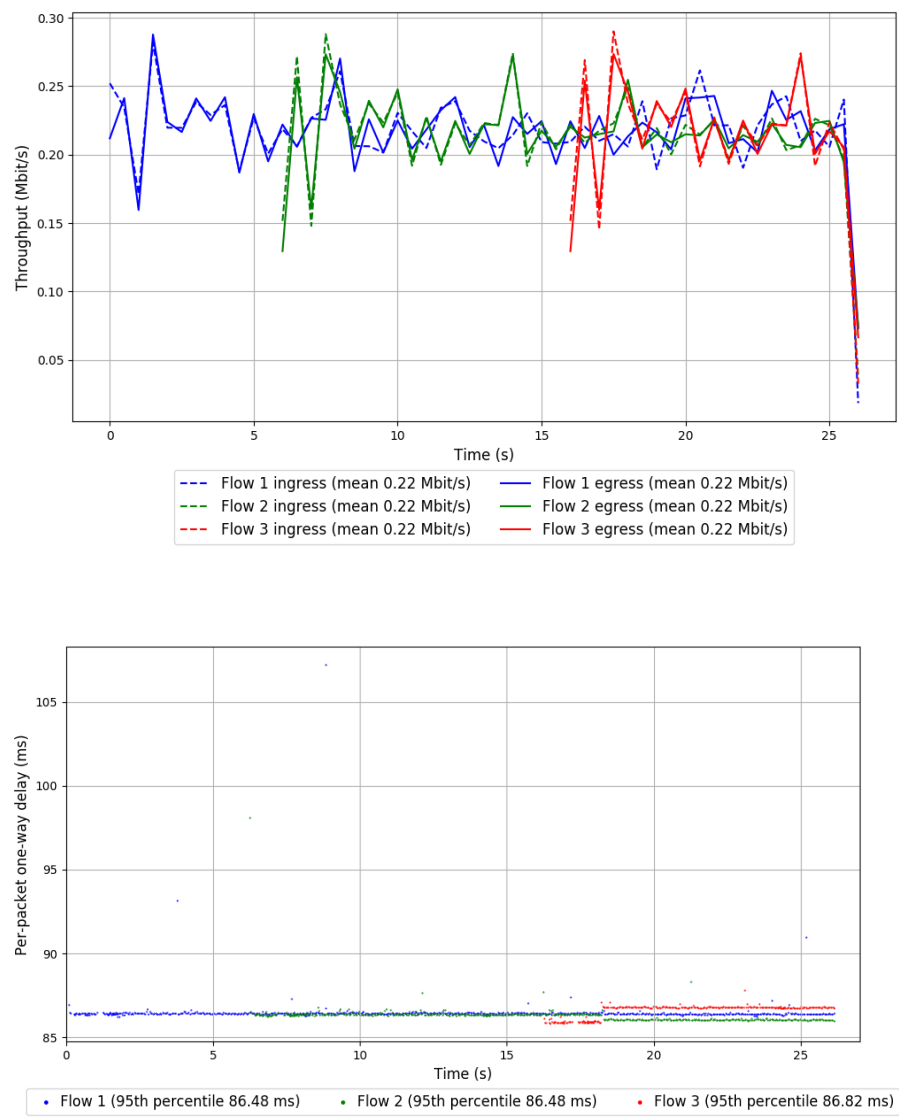
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.821 ms

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link

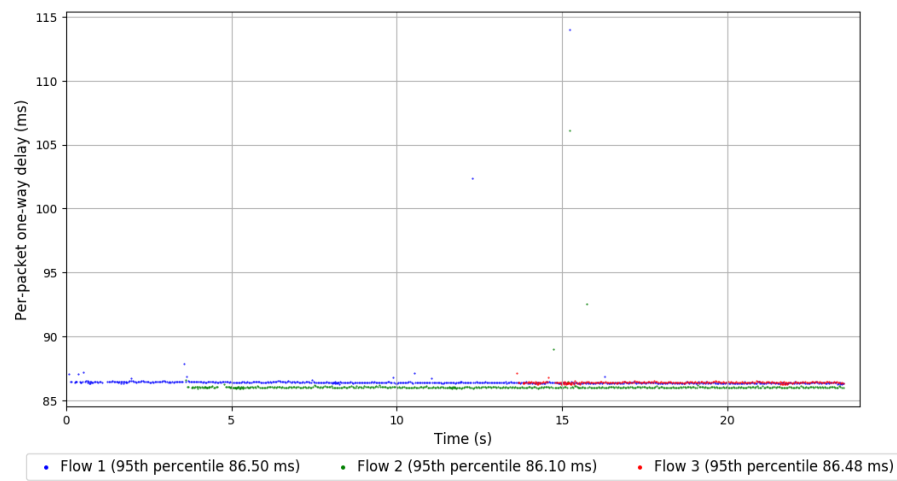
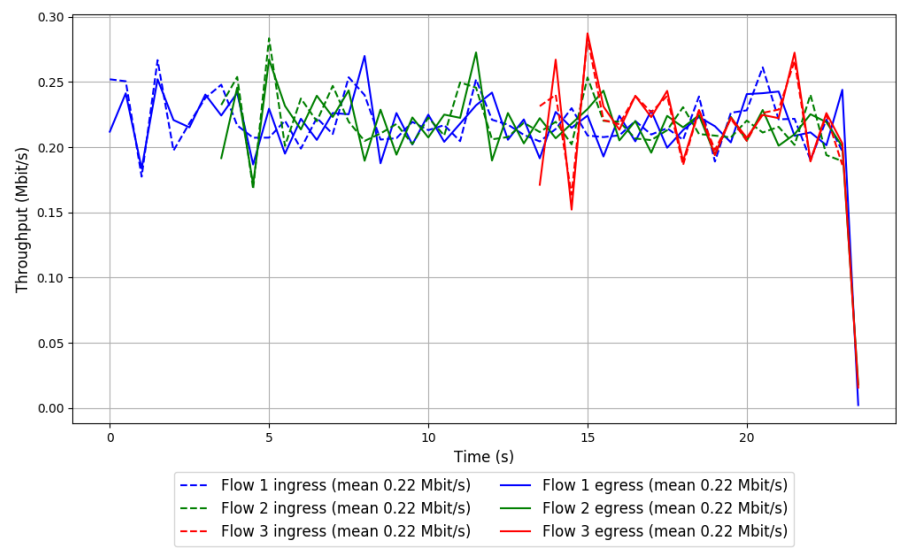


Run 4: Statistics of SCReAM

Start at: 2018-01-02 18:51:27

End at: 2018-01-02 18:51:57

Run 4: Report of SReAM — Data Link

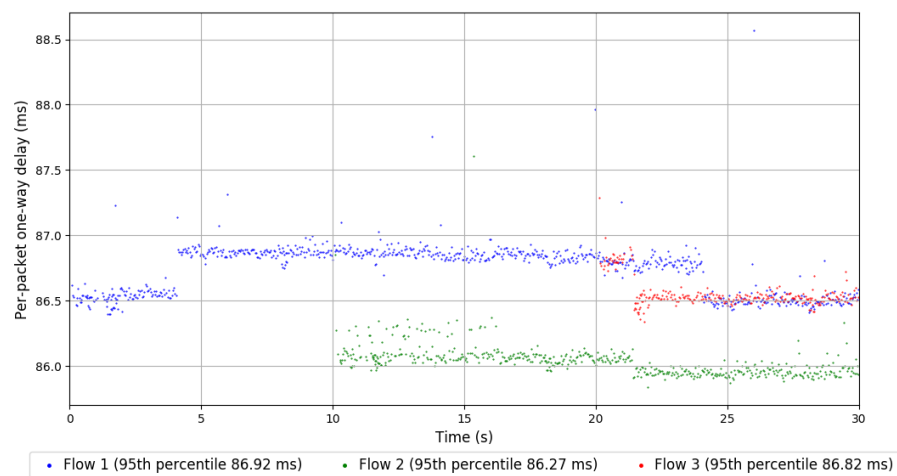
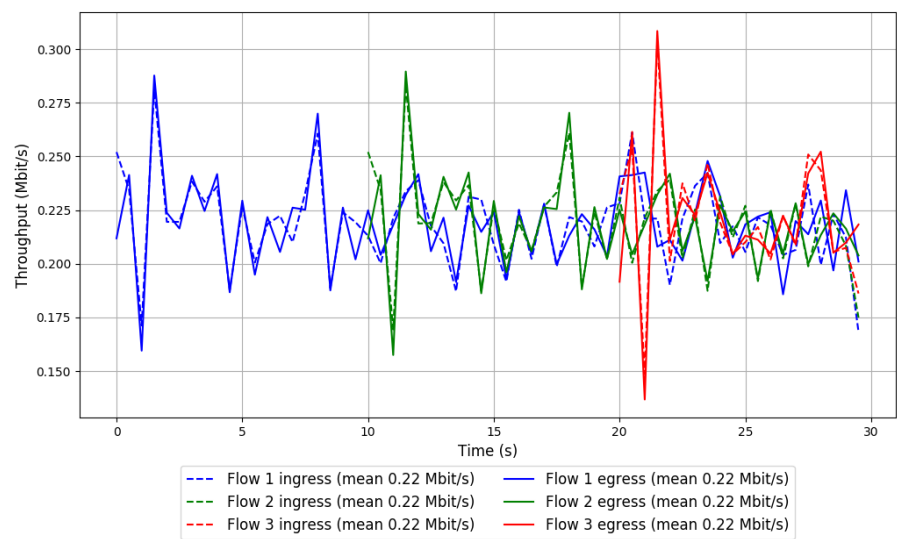


```
Run 5: Statistics of SCReAM

Start at: 2018-01-02 19:05:57
End at: 2018-01-02 19:06:27

# Below is generated by plot.py at 2018-01-02 22:12:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 86.895 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.917 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.271 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.819 ms
Loss rate: 0.00%
```

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SReAM

Start at: 2018-01-02 19:20:12

End at: 2018-01-02 19:20:42

Run 6: Report of SReAM — Data Link

Figure is missing

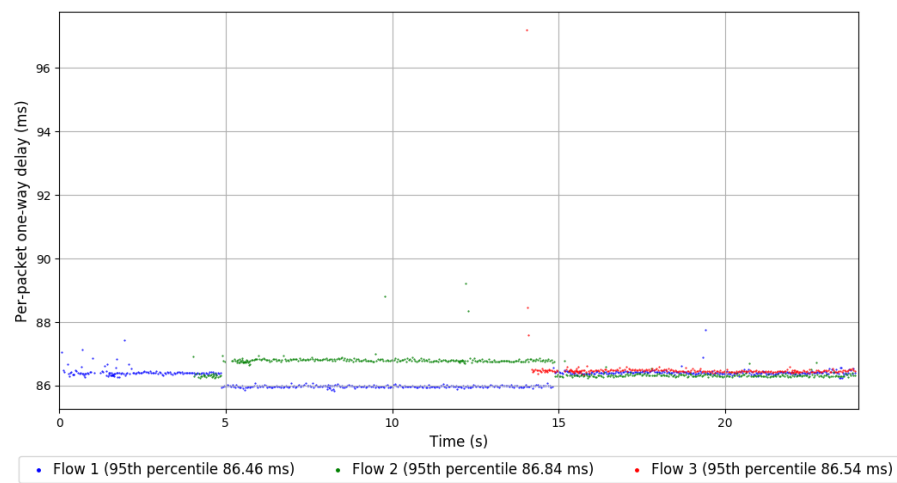
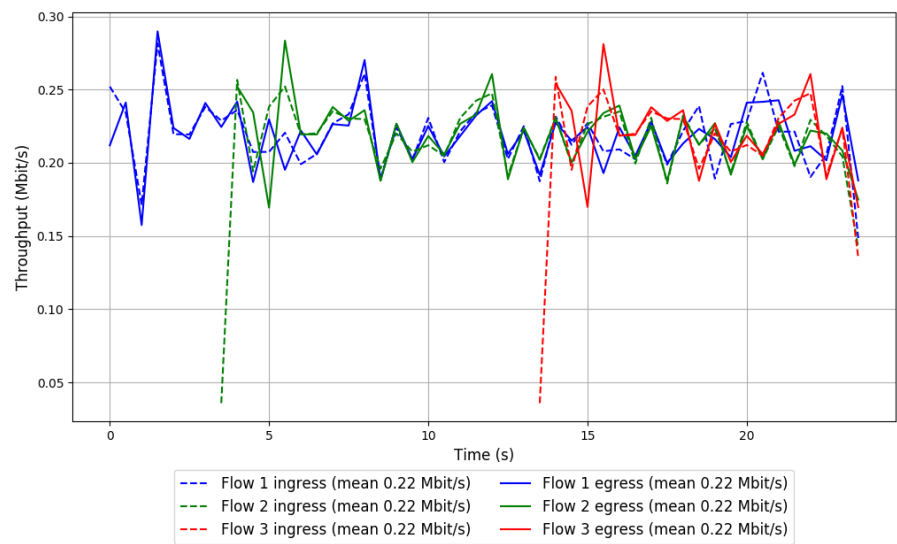
Figure is missing

Run 7: Statistics of SReAM

Start at: 2018-01-02 19:34:30

End at: 2018-01-02 19:35:00

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-01-02 19:48:55

End at: 2018-01-02 19:49:25

Below is generated by plot.py at 2018-01-02 22:12:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 86.540 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.556 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.465 ms

Loss rate: 0.00%

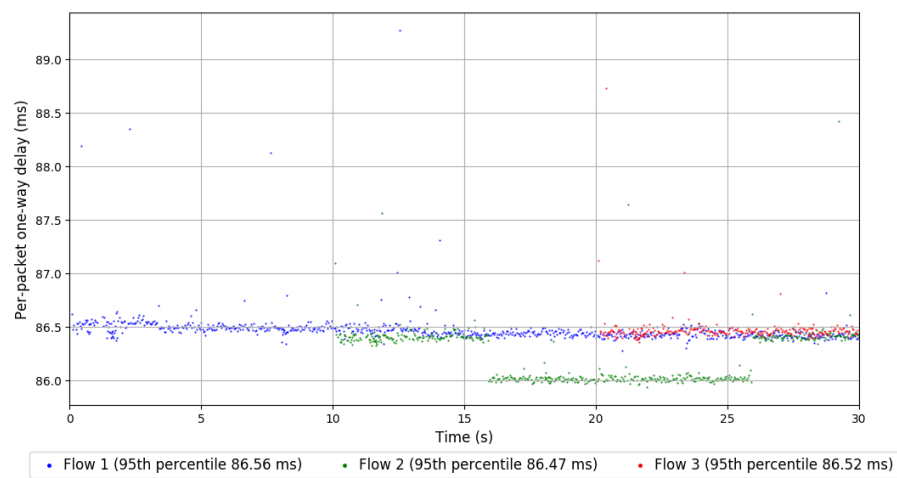
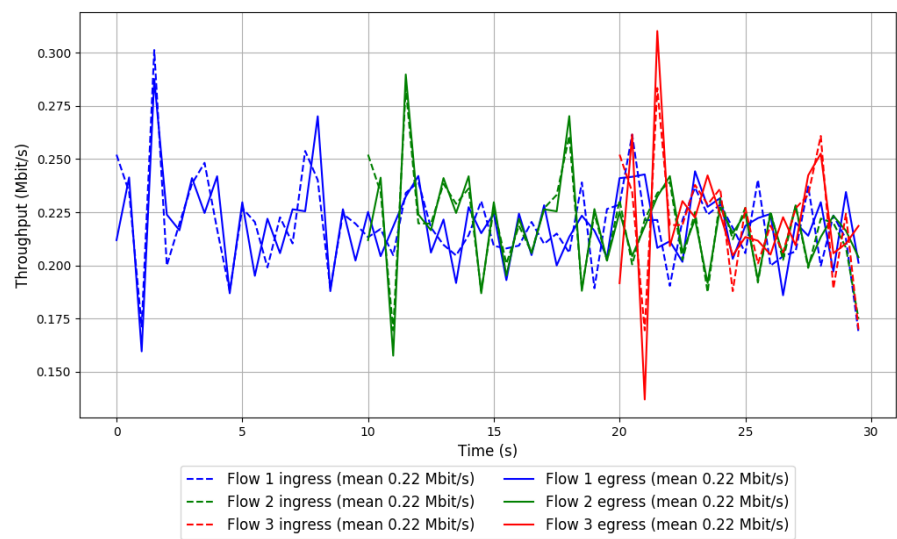
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.521 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SReAM

Start at: 2018-01-02 20:03:31

End at: 2018-01-02 20:04:01

Below is generated by plot.py at 2018-01-02 22:12:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 86.583 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.572 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.633 ms

Loss rate: 0.00%

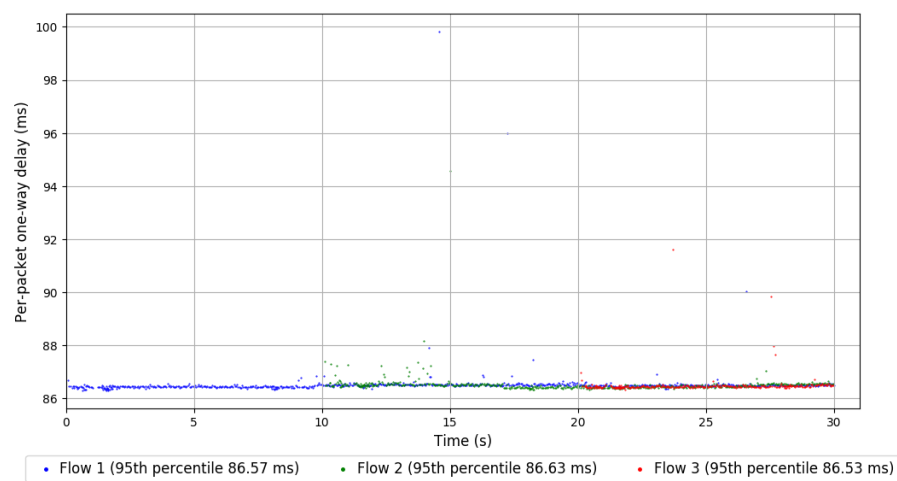
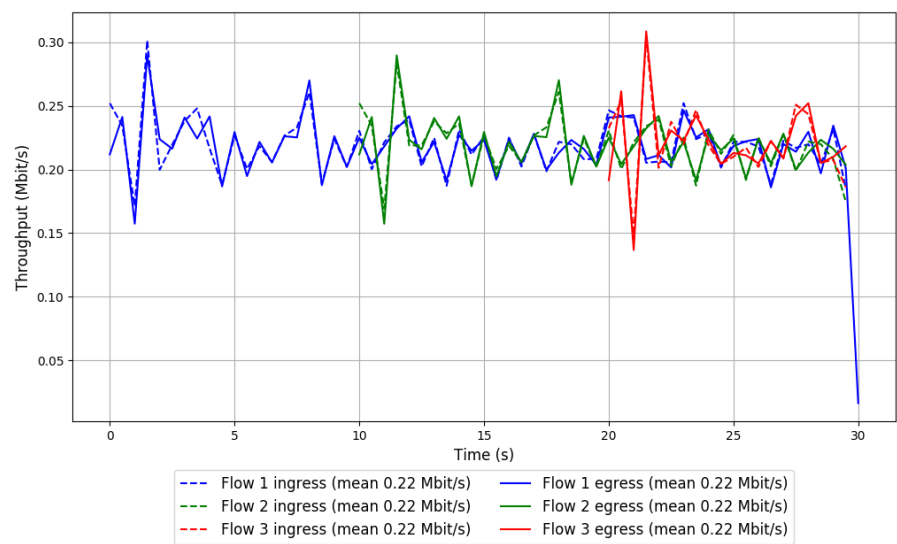
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.534 ms

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link

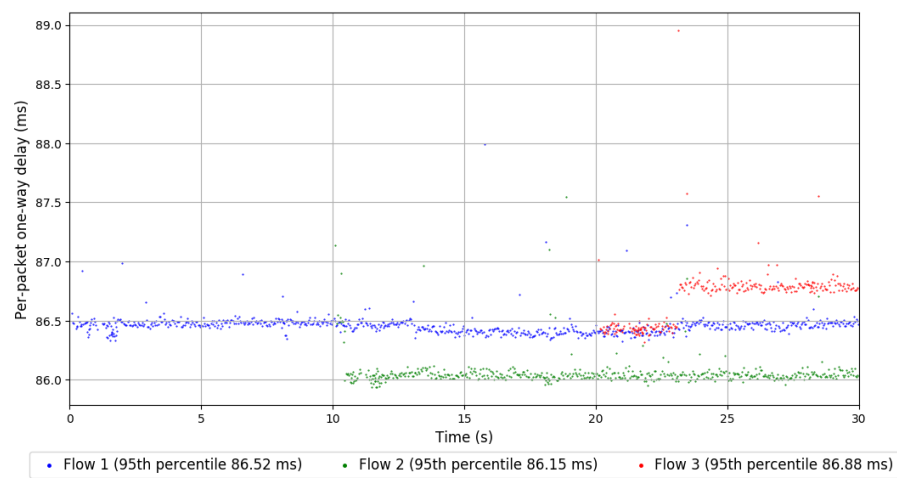
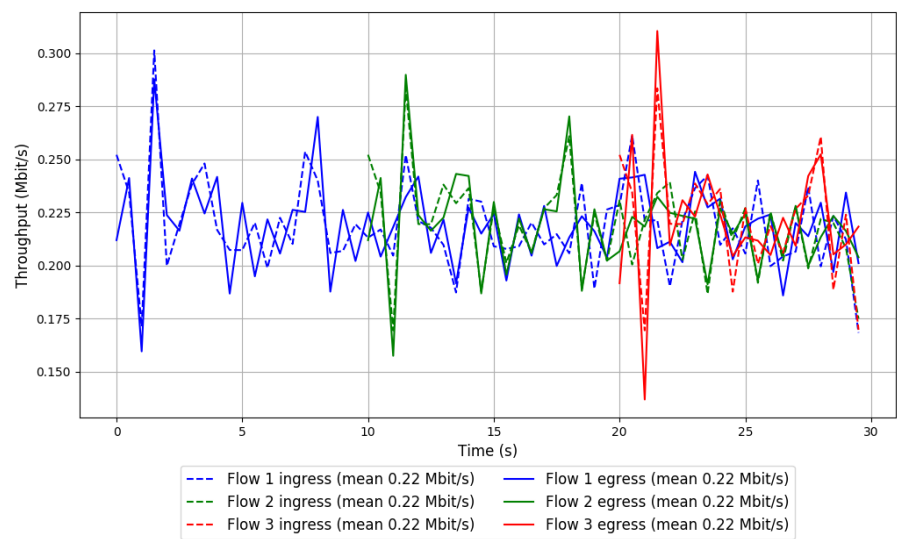


```
Run 10: Statistics of SReAM

Start at: 2018-01-02 20:17:48
End at: 2018-01-02 20:18:18

# Below is generated by plot.py at 2018-01-02 22:12:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 86.801 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.521 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.151 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.877 ms
Loss rate: 0.00%
```

Run 10: Report of SCRaM — Data Link

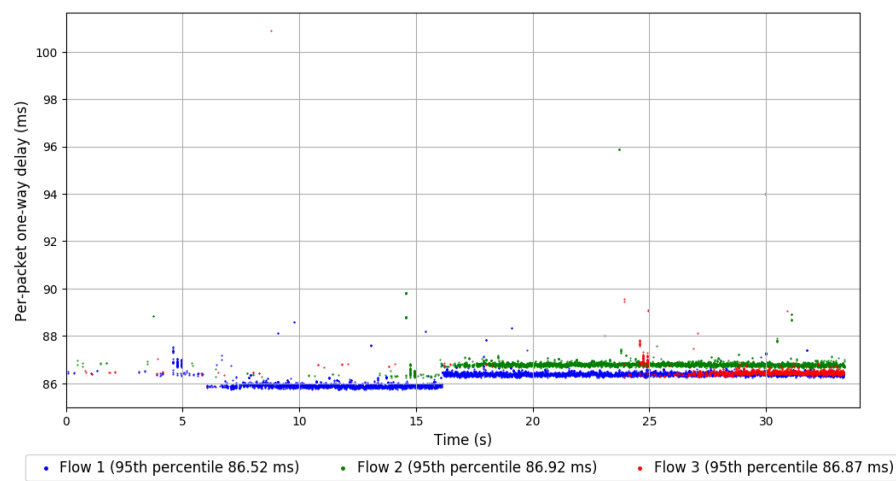
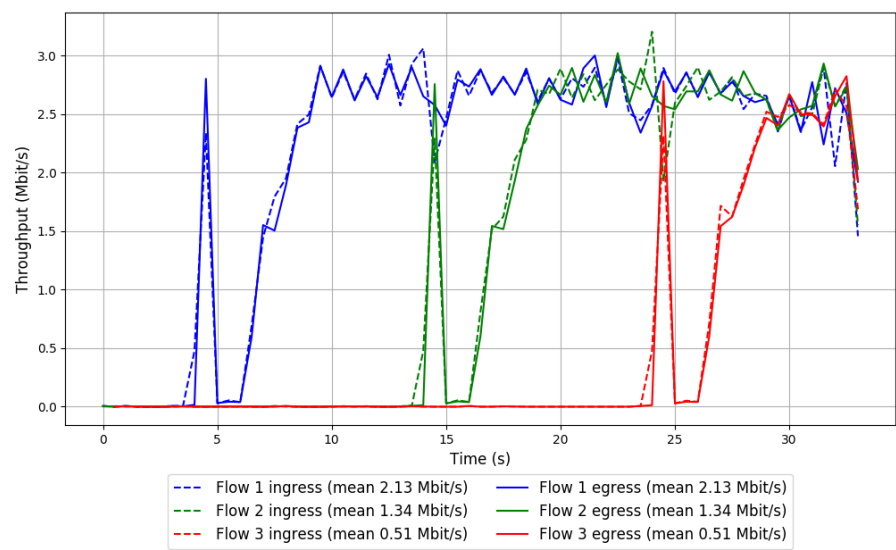


```
Run 1: Statistics of WebRTC media

Start at: 2018-01-02 17:53:56
End at: 2018-01-02 17:54:26

# Below is generated by plot.py at 2018-01-02 22:12:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.95 Mbit/s
95th percentile per-packet one-way delay: 86.867 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.13 Mbit/s
95th percentile per-packet one-way delay: 86.516 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.34 Mbit/s
95th percentile per-packet one-way delay: 86.915 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.51 Mbit/s
95th percentile per-packet one-way delay: 86.873 ms
Loss rate: 0.00%
```


Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-01-02 18:08:43

End at: 2018-01-02 18:09:13

Below is generated by plot.py at 2018-01-02 22:12:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.96 Mbit/s

95th percentile per-packet one-way delay: 86.844 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.14 Mbit/s

95th percentile per-packet one-way delay: 86.515 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.34 Mbit/s

95th percentile per-packet one-way delay: 86.887 ms

Loss rate: 0.00%

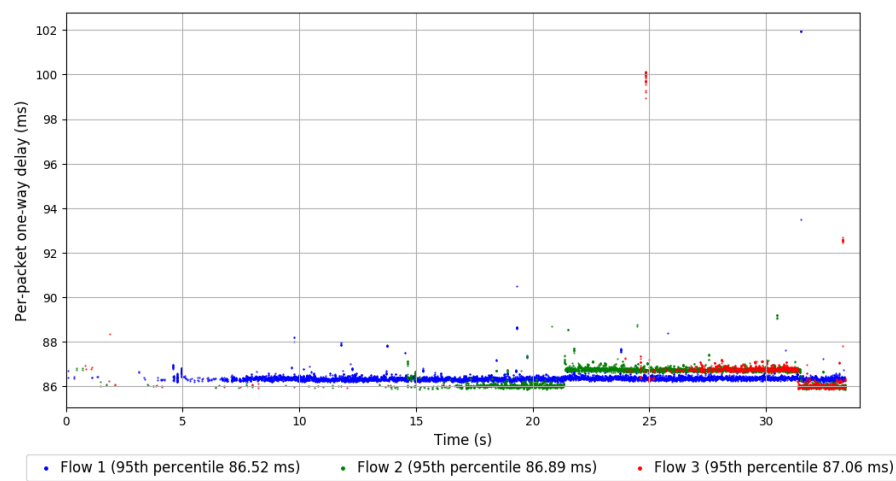
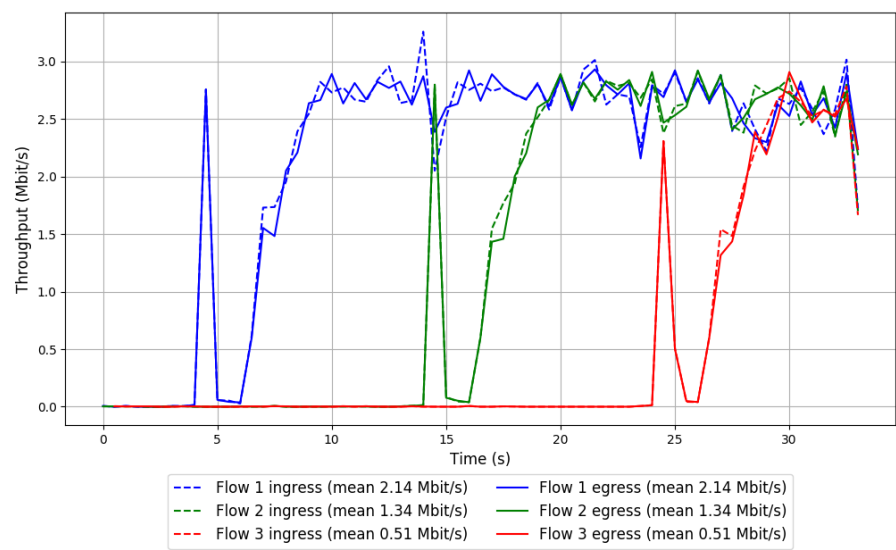
-- Flow 3:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 87.063 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-01-02 18:23:41

End at: 2018-01-02 18:24:11

Below is generated by plot.py at 2018-01-02 22:12:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.23 Mbit/s

95th percentile per-packet one-way delay: 86.555 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 86.459 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.42 Mbit/s

95th percentile per-packet one-way delay: 86.611 ms

Loss rate: 0.02%

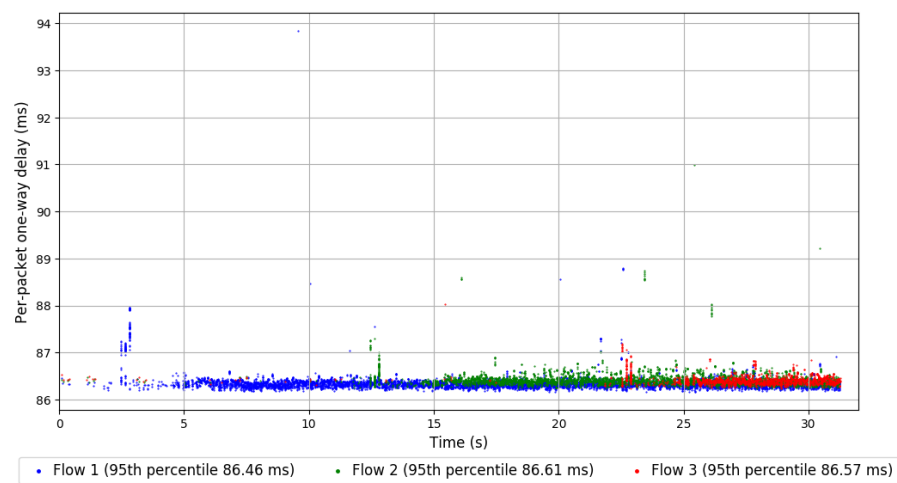
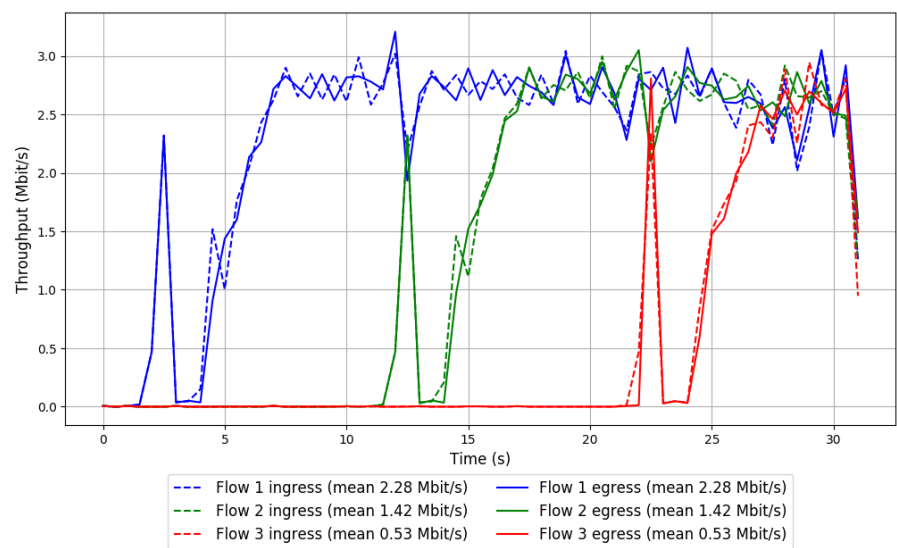
-- Flow 3:

Average throughput: 0.53 Mbit/s

95th percentile per-packet one-way delay: 86.573 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-01-02 18:38:31

End at: 2018-01-02 18:39:01

Below is generated by plot.py at 2018-01-02 22:12:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.95 Mbit/s

95th percentile per-packet one-way delay: 86.857 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.14 Mbit/s

95th percentile per-packet one-way delay: 86.843 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.33 Mbit/s

95th percentile per-packet one-way delay: 86.877 ms

Loss rate: 0.00%

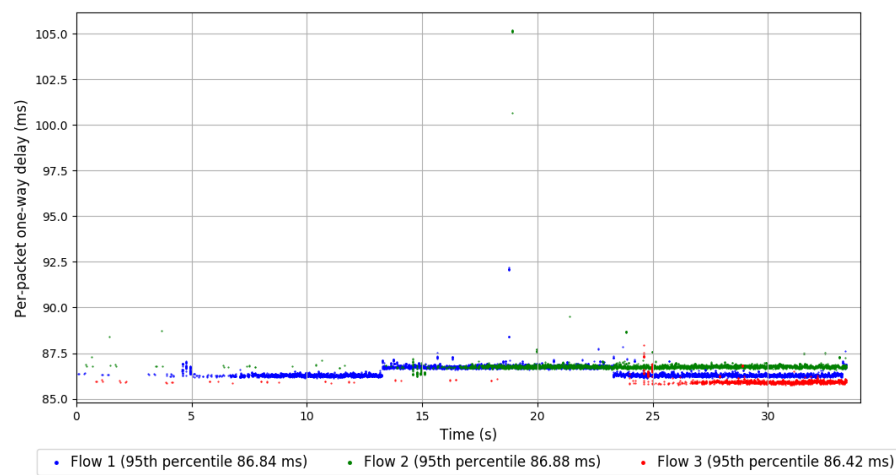
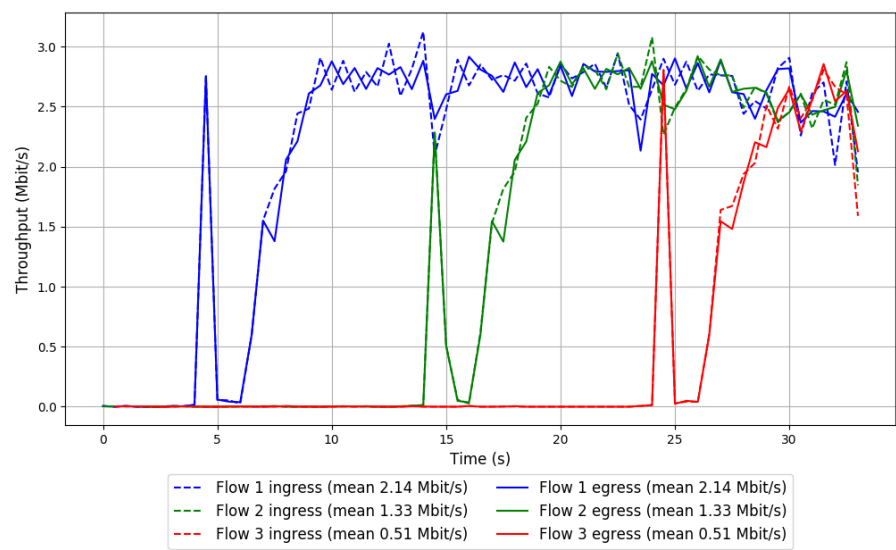
-- Flow 3:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 86.420 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-01-02 18:53:23

End at: 2018-01-02 18:53:53

Below is generated by plot.py at 2018-01-02 22:12:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.94 Mbit/s

95th percentile per-packet one-way delay: 86.549 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.13 Mbit/s

95th percentile per-packet one-way delay: 86.463 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.34 Mbit/s

95th percentile per-packet one-way delay: 86.361 ms

Loss rate: 0.00%

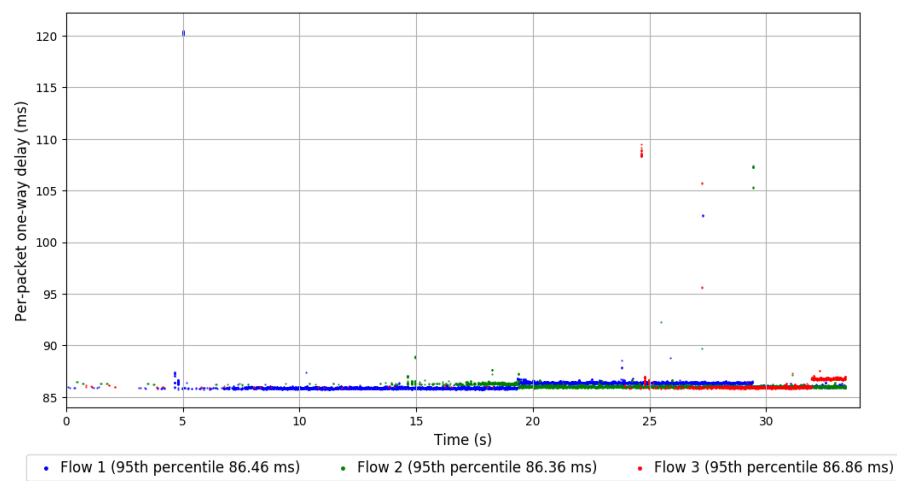
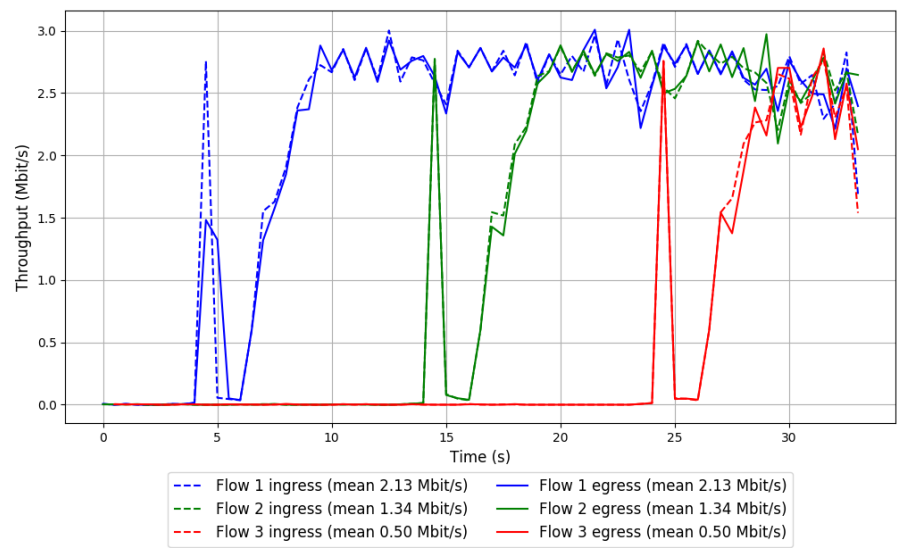
-- Flow 3:

Average throughput: 0.50 Mbit/s

95th percentile per-packet one-way delay: 86.856 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-01-02 19:07:51

End at: 2018-01-02 19:08:21

Below is generated by plot.py at 2018-01-02 22:12:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.93 Mbit/s

95th percentile per-packet one-way delay: 86.811 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.14 Mbit/s

95th percentile per-packet one-way delay: 86.475 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.33 Mbit/s

95th percentile per-packet one-way delay: 86.855 ms

Loss rate: 0.00%

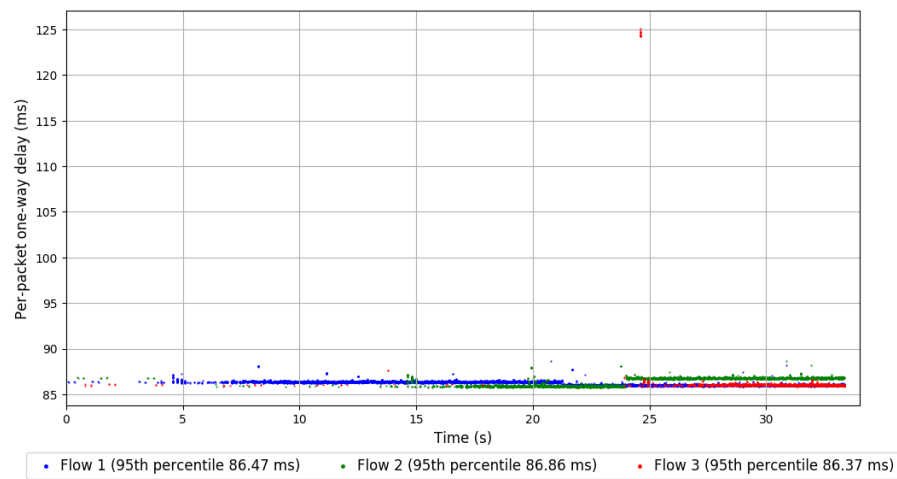
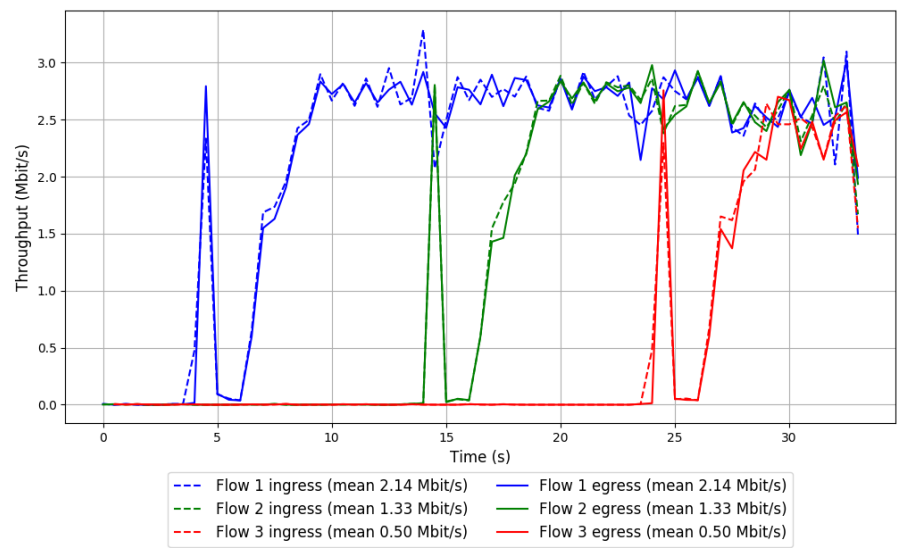
-- Flow 3:

Average throughput: 0.50 Mbit/s

95th percentile per-packet one-way delay: 86.368 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-01-02 19:22:03

End at: 2018-01-02 19:22:33

Below is generated by plot.py at 2018-01-02 22:12:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.94 Mbit/s

95th percentile per-packet one-way delay: 86.925 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.14 Mbit/s

95th percentile per-packet one-way delay: 86.966 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.33 Mbit/s

95th percentile per-packet one-way delay: 86.873 ms

Loss rate: 0.00%

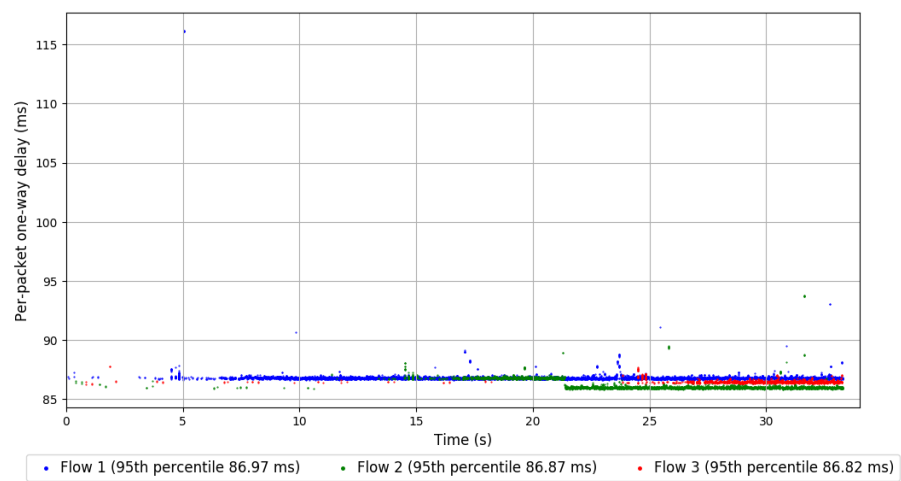
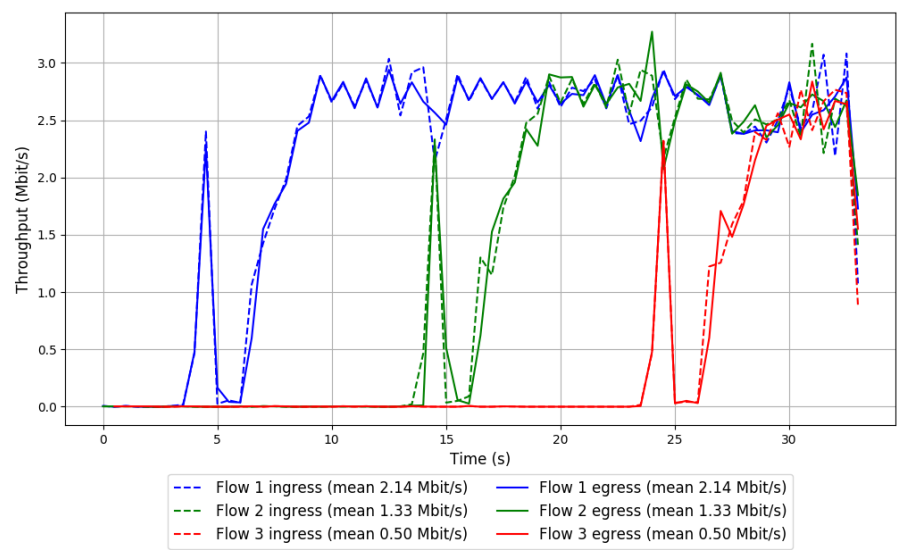
-- Flow 3:

Average throughput: 0.50 Mbit/s

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

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-01-02 19:36:27

End at: 2018-01-02 19:36:57

Below is generated by plot.py at 2018-01-02 22:12:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.96 Mbit/s

95th percentile per-packet one-way delay: 86.534 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.14 Mbit/s

95th percentile per-packet one-way delay: 86.456 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.34 Mbit/s

95th percentile per-packet one-way delay: 86.627 ms

Loss rate: 0.00%

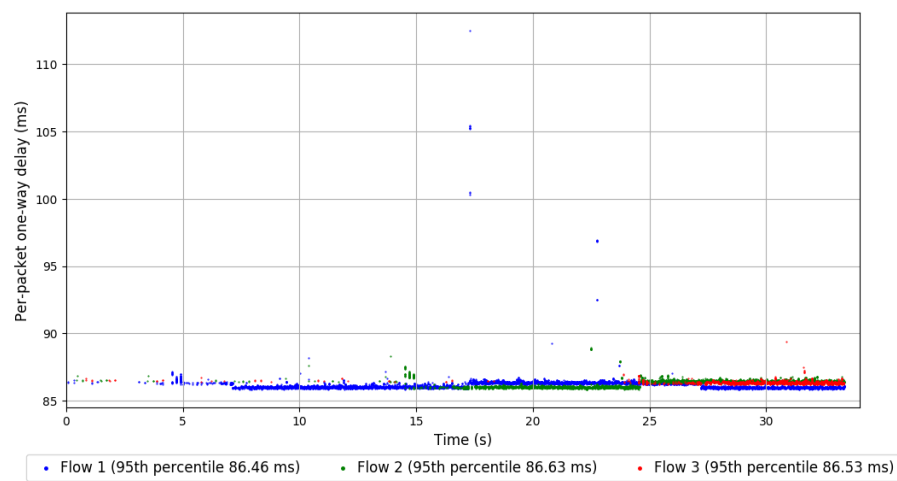
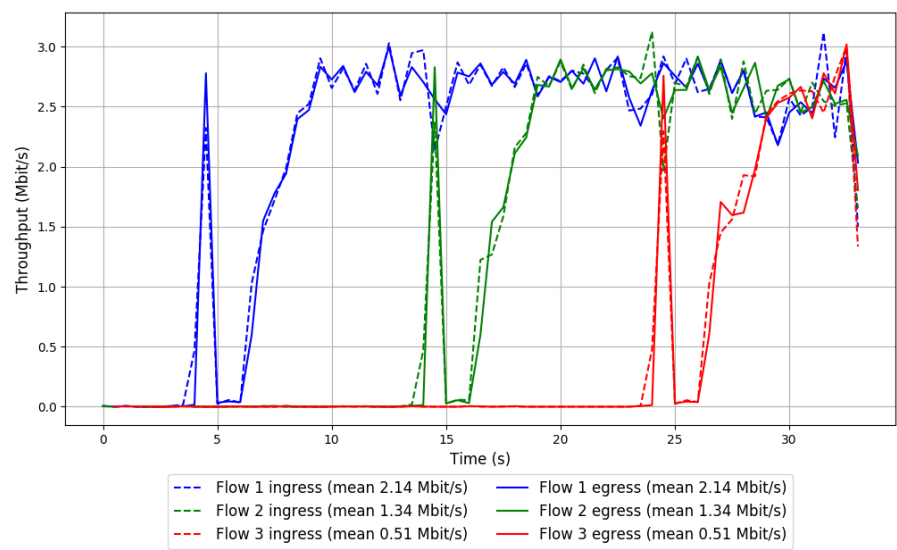
-- Flow 3:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 86.528 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-01-02 19:50:46

End at: 2018-01-02 19:51:16

Below is generated by plot.py at 2018-01-02 22:12:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.97 Mbit/s

95th percentile per-packet one-way delay: 86.606 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.14 Mbit/s

95th percentile per-packet one-way delay: 86.615 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.35 Mbit/s

95th percentile per-packet one-way delay: 86.551 ms

Loss rate: 0.00%

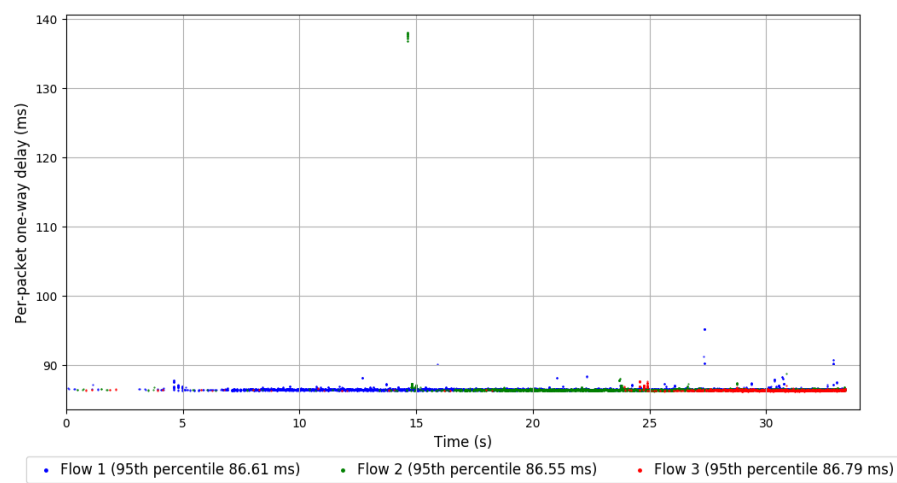
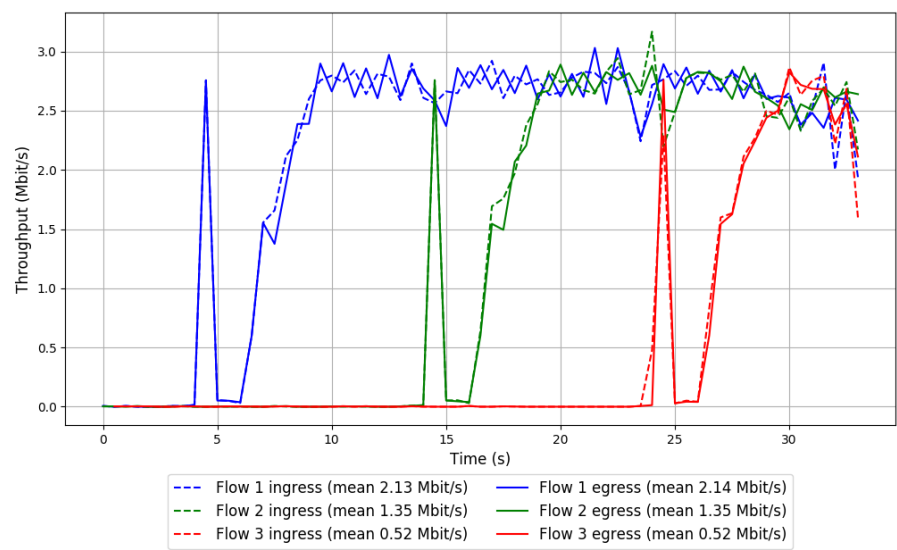
-- Flow 3:

Average throughput: 0.52 Mbit/s

95th percentile per-packet one-way delay: 86.793 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-01-02 20:05:15

End at: 2018-01-02 20:05:45

Below is generated by plot.py at 2018-01-02 22:12:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.96 Mbit/s

95th percentile per-packet one-way delay: 86.850 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.13 Mbit/s

95th percentile per-packet one-way delay: 86.870 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.34 Mbit/s

95th percentile per-packet one-way delay: 86.521 ms

Loss rate: 0.00%

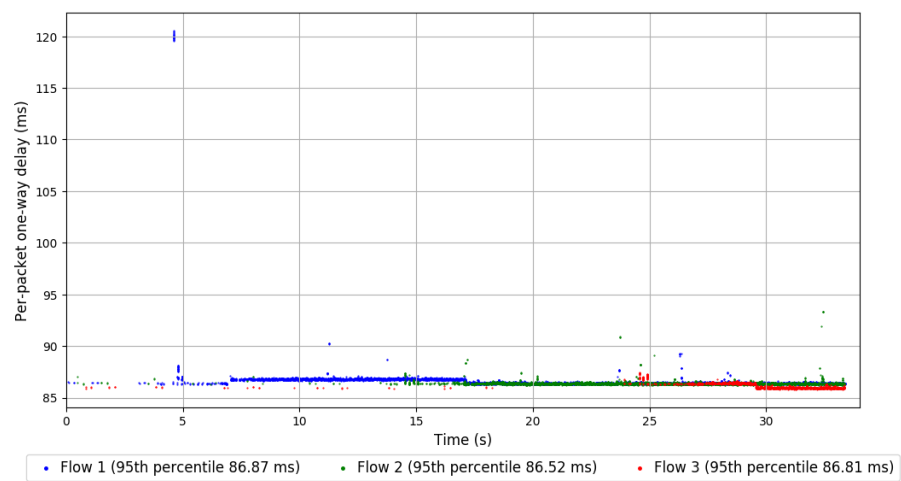
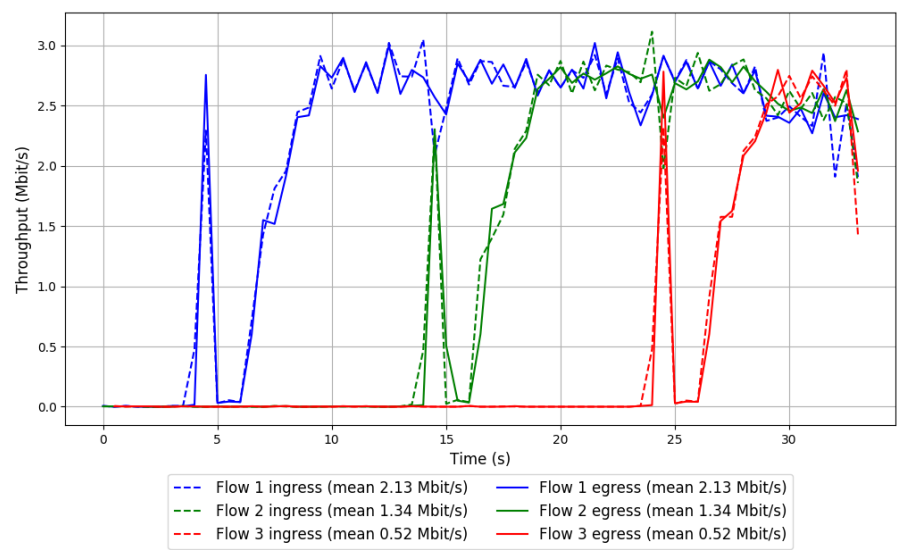
-- Flow 3:

Average throughput: 0.52 Mbit/s

95th percentile per-packet one-way delay: 86.808 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

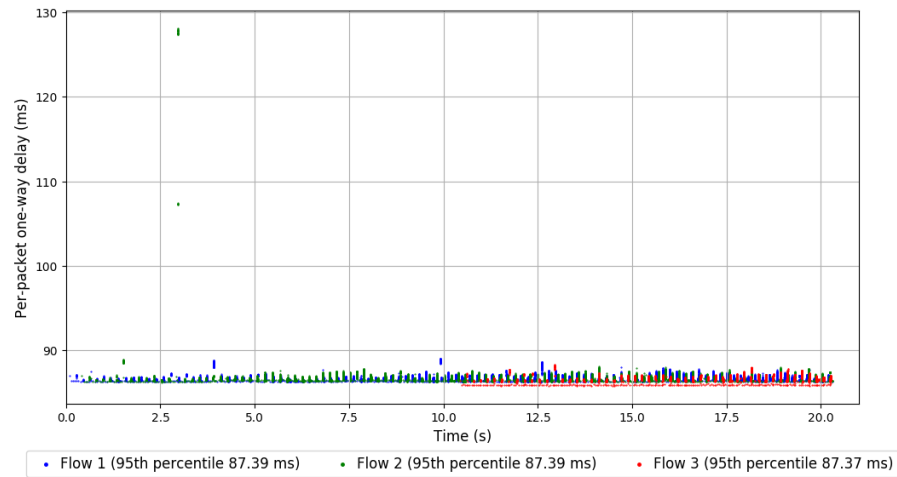
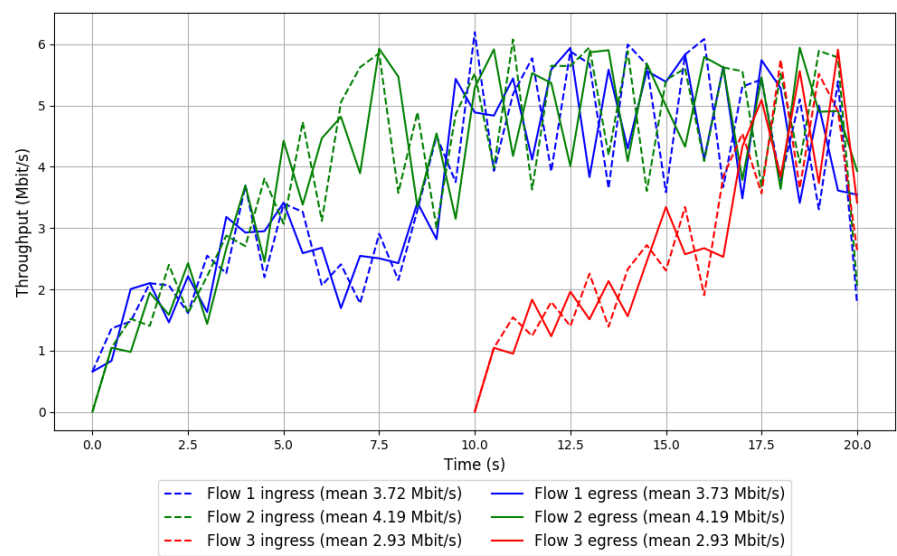


Run 1: Statistics of Sprout

Start at: 2018-01-02 18:00:35

End at: 2018-01-02 18:01:05

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-01-02 18:15:29

End at: 2018-01-02 18:15:59

Below is generated by plot.py at 2018-01-02 22:12:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 7.91 Mbit/s

95th percentile per-packet one-way delay: 87.442 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 4.32 Mbit/s

95th percentile per-packet one-way delay: 87.531 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 3.93 Mbit/s

95th percentile per-packet one-way delay: 87.265 ms

Loss rate: 0.00%

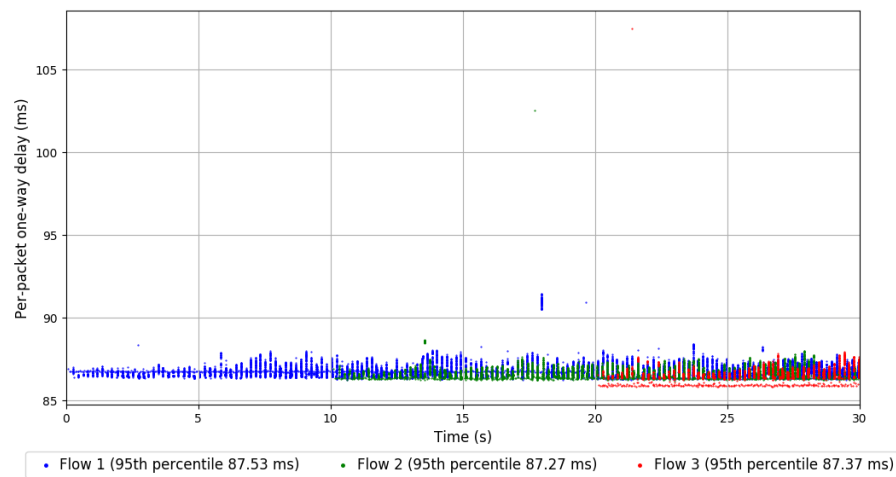
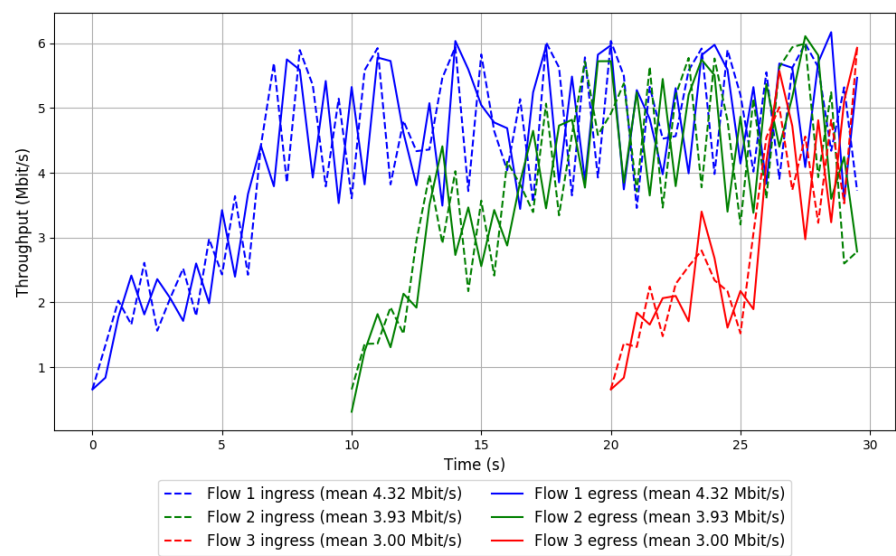
-- Flow 3:

Average throughput: 3.00 Mbit/s

95th percentile per-packet one-way delay: 87.374 ms

Loss rate: 0.00%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-01-02 18:30:22

End at: 2018-01-02 18:30:52

Below is generated by plot.py at 2018-01-02 22:12:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.10 Mbit/s

95th percentile per-packet one-way delay: 108.642 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.43 Mbit/s

95th percentile per-packet one-way delay: 109.427 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.56 Mbit/s

95th percentile per-packet one-way delay: 112.117 ms

Loss rate: 0.00%

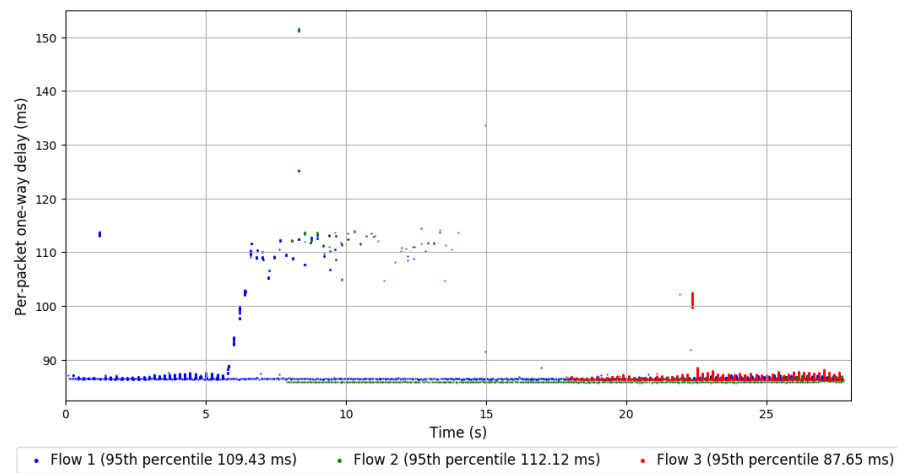
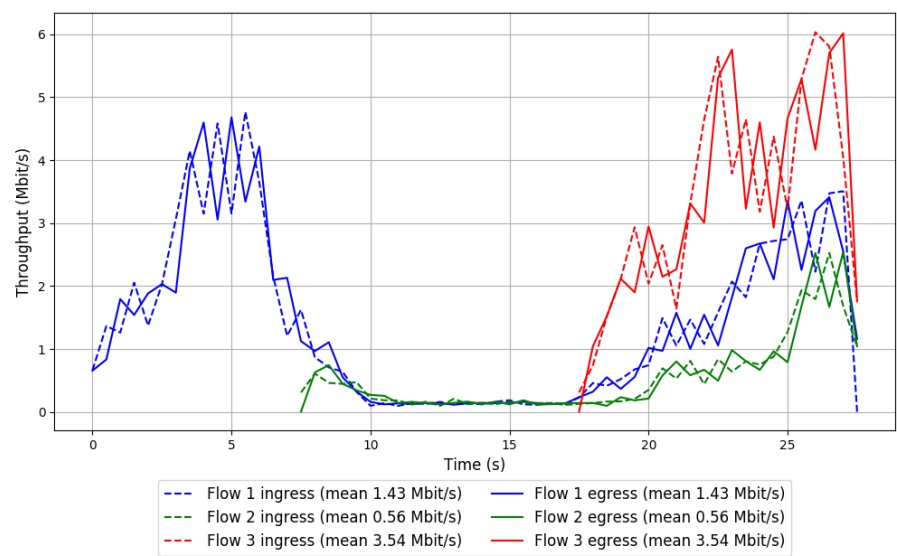
-- Flow 3:

Average throughput: 3.54 Mbit/s

95th percentile per-packet one-way delay: 87.651 ms

Loss rate: 0.00%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-01-02 18:45:11

End at: 2018-01-02 18:45:41

Below is generated by plot.py at 2018-01-02 22:12:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 8.26 Mbit/s

95th percentile per-packet one-way delay: 87.466 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 4.54 Mbit/s

95th percentile per-packet one-way delay: 87.547 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 4.11 Mbit/s

95th percentile per-packet one-way delay: 87.403 ms

Loss rate: 0.00%

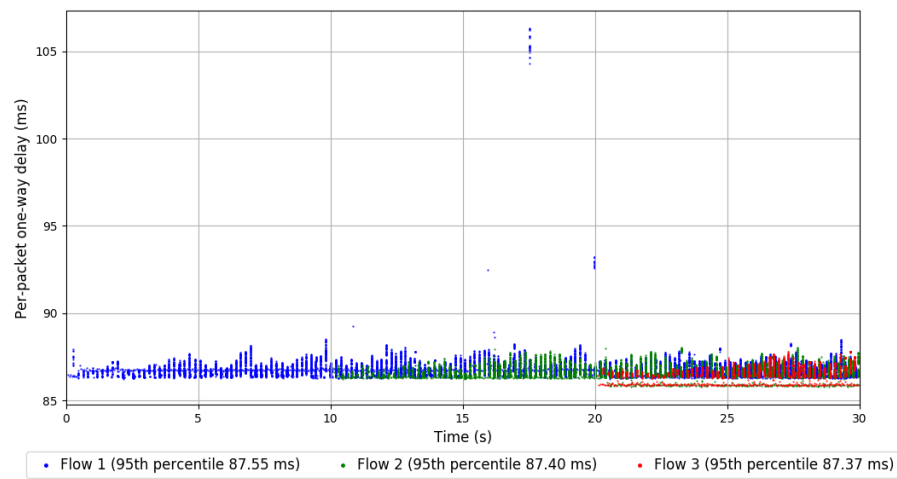
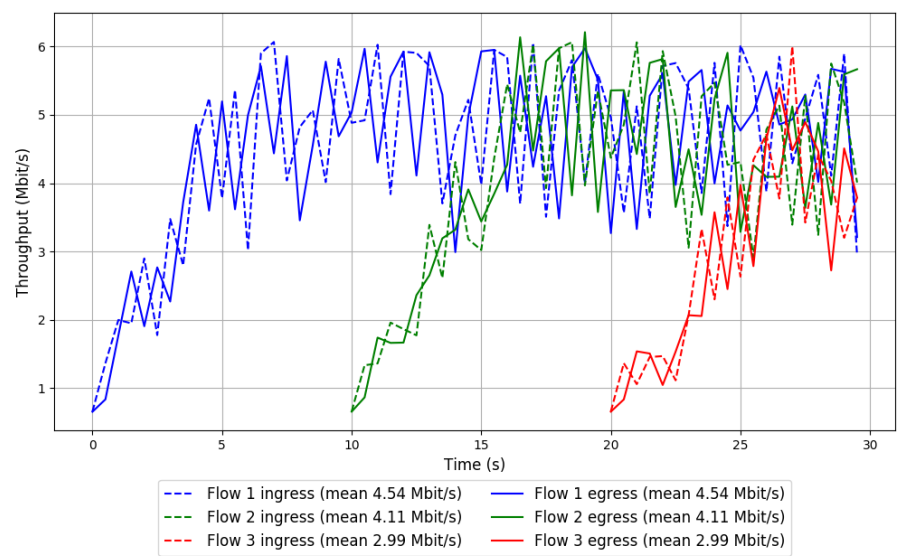
-- Flow 3:

Average throughput: 2.99 Mbit/s

95th percentile per-packet one-way delay: 87.370 ms

Loss rate: 0.00%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-01-02 18:59:45

End at: 2018-01-02 19:00:15

Below is generated by plot.py at 2018-01-02 22:12:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 6.74 Mbit/s

95th percentile per-packet one-way delay: 87.346 ms

Loss rate: 0.49%

-- Flow 1:

Average throughput: 3.63 Mbit/s

95th percentile per-packet one-way delay: 87.343 ms

Loss rate: 0.90%

-- Flow 2:

Average throughput: 3.94 Mbit/s

95th percentile per-packet one-way delay: 87.397 ms

Loss rate: 0.00%

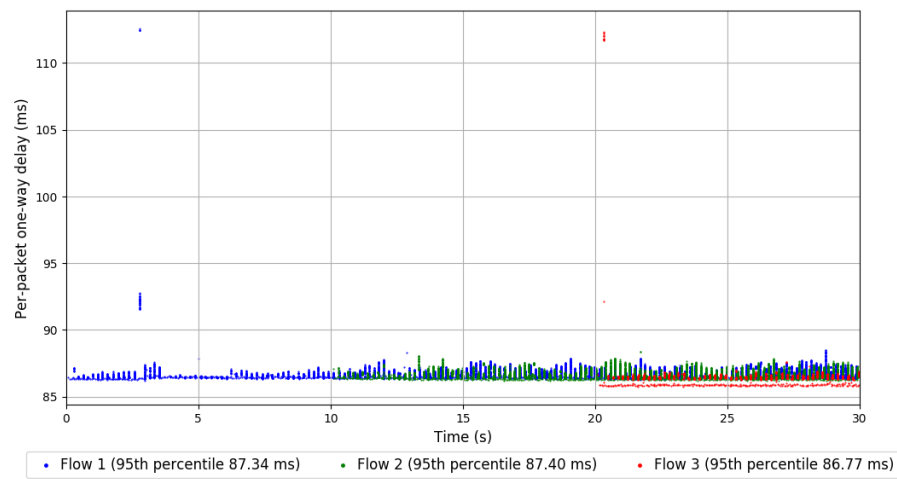
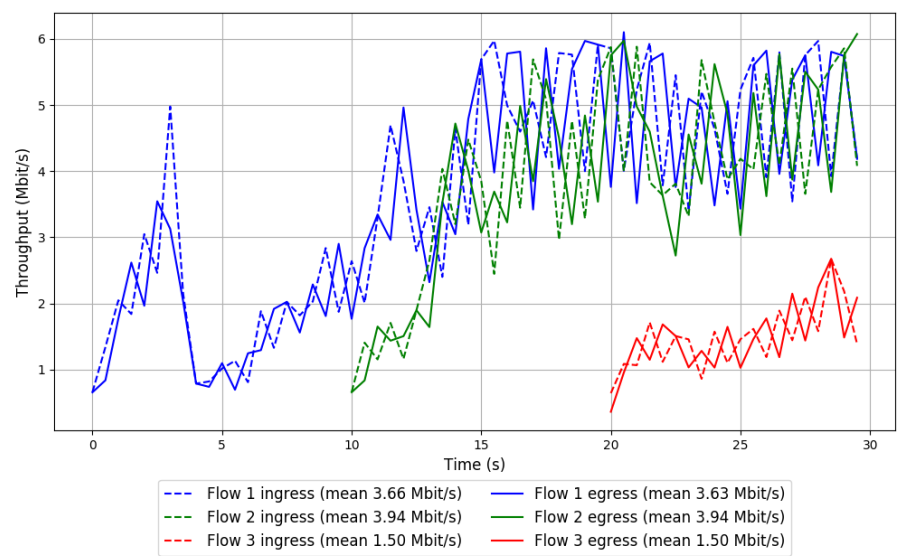
-- Flow 3:

Average throughput: 1.50 Mbit/s

95th percentile per-packet one-way delay: 86.773 ms

Loss rate: 0.00%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-01-02 19:14:03

End at: 2018-01-02 19:14:33

Below is generated by plot.py at 2018-01-02 22:12:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 5.45 Mbit/s

95th percentile per-packet one-way delay: 88.159 ms

Loss rate: 1.05%

-- Flow 1:

Average throughput: 3.16 Mbit/s

95th percentile per-packet one-way delay: 88.162 ms

Loss rate: 0.96%

-- Flow 2:

Average throughput: 2.13 Mbit/s

95th percentile per-packet one-way delay: 88.080 ms

Loss rate: 1.90%

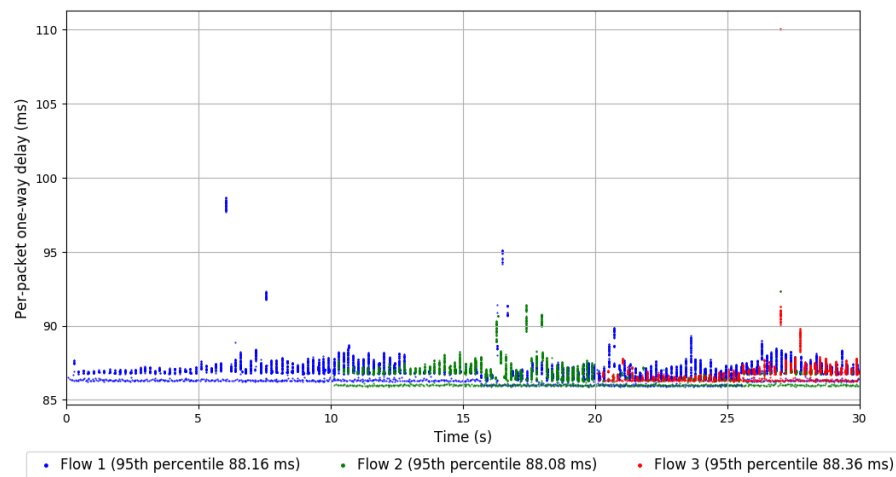
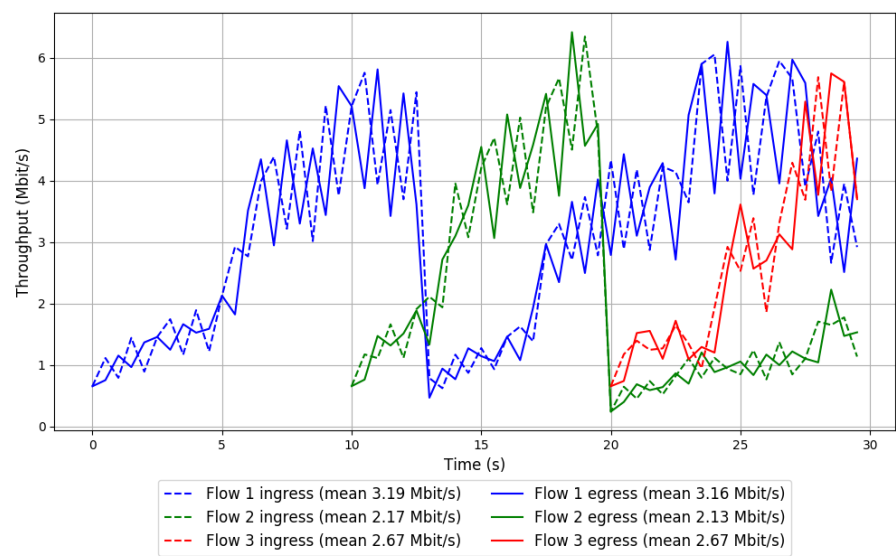
-- Flow 3:

Average throughput: 2.67 Mbit/s

95th percentile per-packet one-way delay: 88.357 ms

Loss rate: 0.00%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-01-02 19:28:15

End at: 2018-01-02 19:28:45

Below is generated by plot.py at 2018-01-02 22:12:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 6.91 Mbit/s

95th percentile per-packet one-way delay: 87.720 ms

Loss rate: 0.56%

-- Flow 1:

Average throughput: 3.89 Mbit/s

95th percentile per-packet one-way delay: 87.739 ms

Loss rate: 0.29%

-- Flow 2:

Average throughput: 2.71 Mbit/s

95th percentile per-packet one-way delay: 87.640 ms

Loss rate: 1.50%

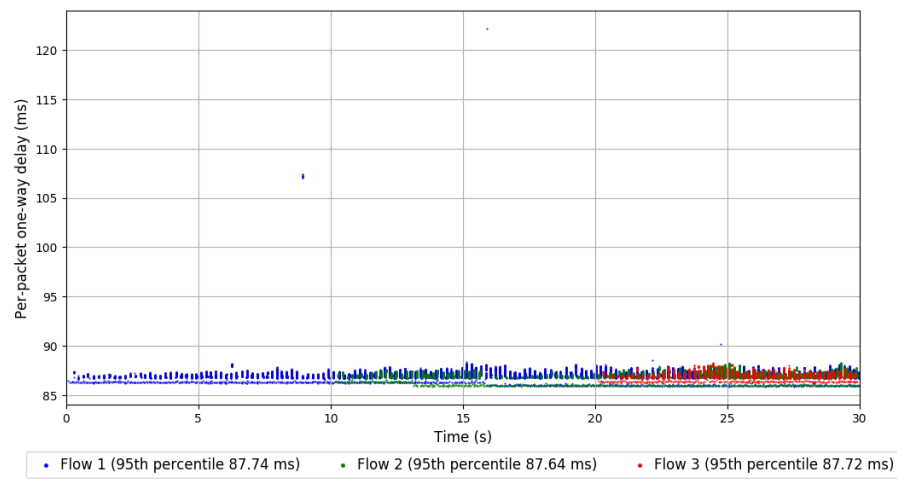
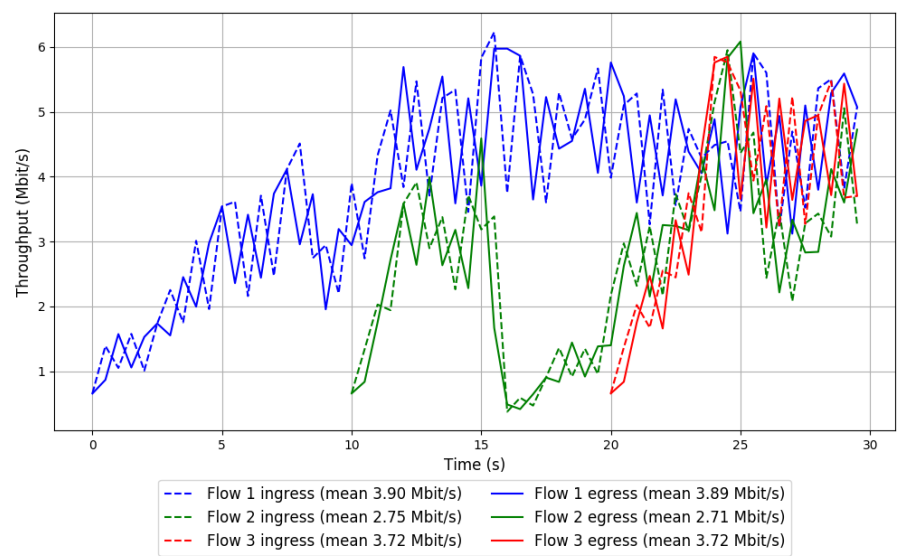
-- Flow 3:

Average throughput: 3.72 Mbit/s

95th percentile per-packet one-way delay: 87.716 ms

Loss rate: 0.00%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-01-02 19:42:43

End at: 2018-01-02 19:43:13

Below is generated by plot.py at 2018-01-02 22:12:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 7.85 Mbit/s

95th percentile per-packet one-way delay: 87.799 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 4.09 Mbit/s

95th percentile per-packet one-way delay: 87.787 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 4.20 Mbit/s

95th percentile per-packet one-way delay: 87.892 ms

Loss rate: 0.00%

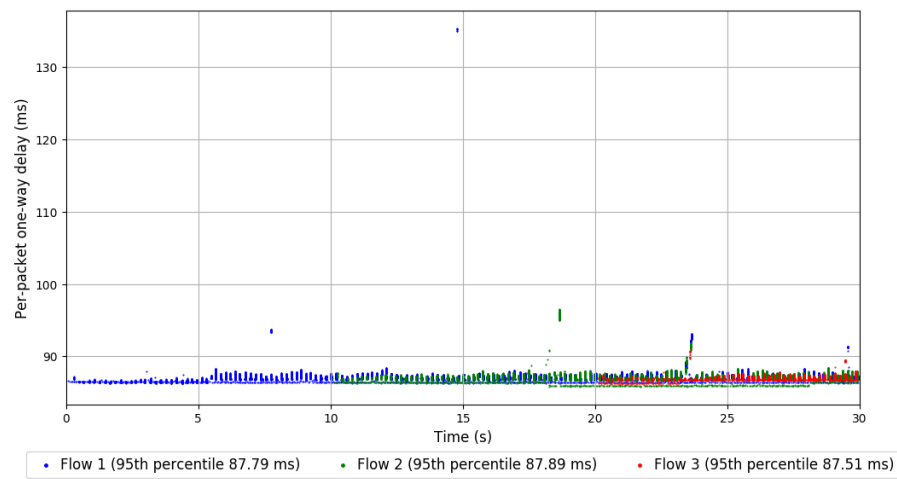
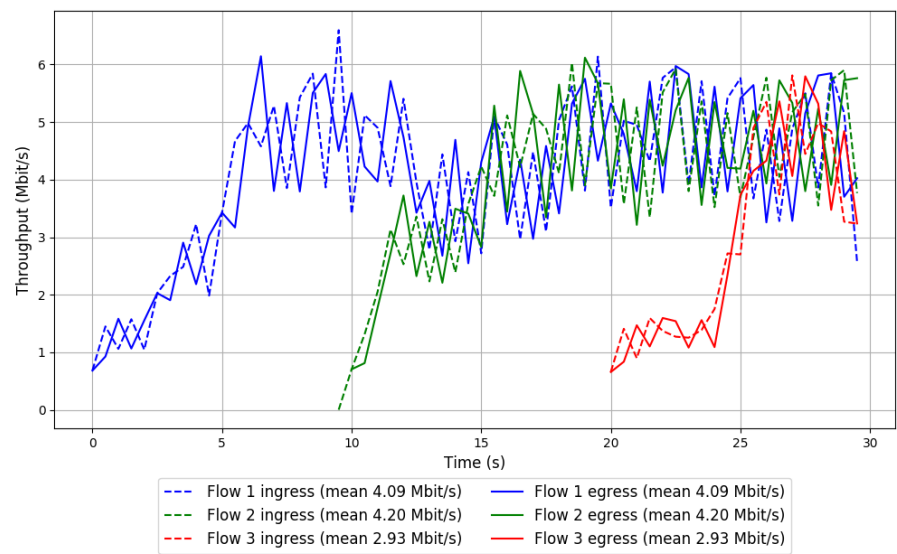
-- Flow 3:

Average throughput: 2.93 Mbit/s

95th percentile per-packet one-way delay: 87.507 ms

Loss rate: 0.00%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-01-02 19:57:22

End at: 2018-01-02 19:57:52

Below is generated by plot.py at 2018-01-02 22:12:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 7.45 Mbit/s

95th percentile per-packet one-way delay: 87.647 ms

Loss rate: 0.77%

-- Flow 1:

Average throughput: 3.45 Mbit/s

95th percentile per-packet one-way delay: 87.702 ms

Loss rate: 0.78%

-- Flow 2:

Average throughput: 4.11 Mbit/s

95th percentile per-packet one-way delay: 87.585 ms

Loss rate: 1.12%

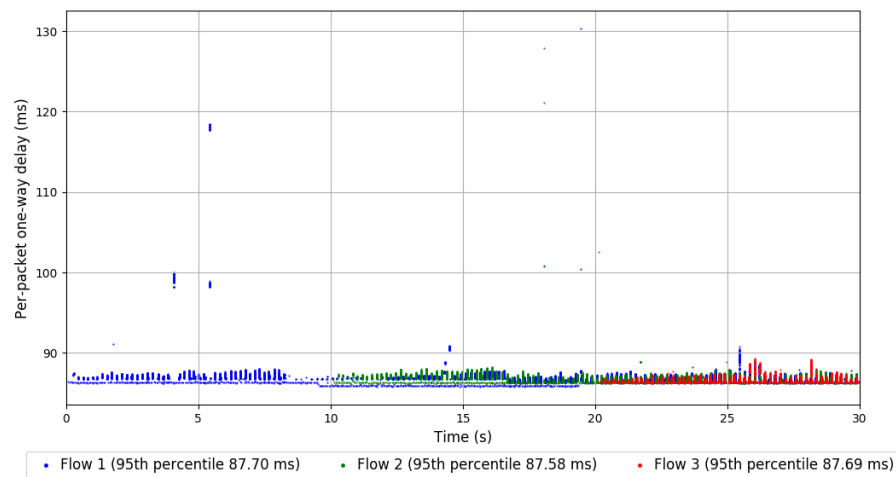
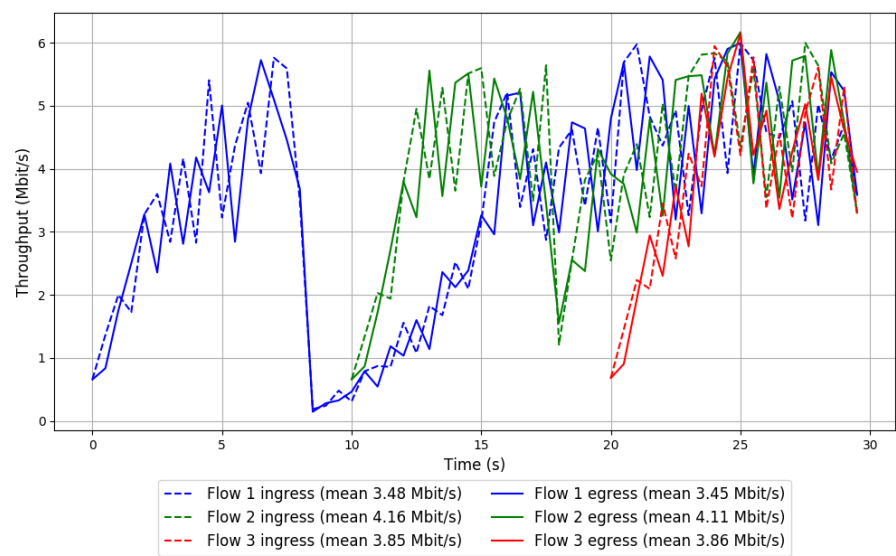
-- Flow 3:

Average throughput: 3.86 Mbit/s

95th percentile per-packet one-way delay: 87.693 ms

Loss rate: 0.00%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-01-02 20:11:35

End at: 2018-01-02 20:12:05

Below is generated by plot.py at 2018-01-02 22:12:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 7.44 Mbit/s

95th percentile per-packet one-way delay: 87.834 ms

Loss rate: 0.42%

-- Flow 1:

Average throughput: 3.98 Mbit/s

95th percentile per-packet one-way delay: 88.010 ms

Loss rate: 0.64%

-- Flow 2:

Average throughput: 3.77 Mbit/s

95th percentile per-packet one-way delay: 87.766 ms

Loss rate: 0.24%

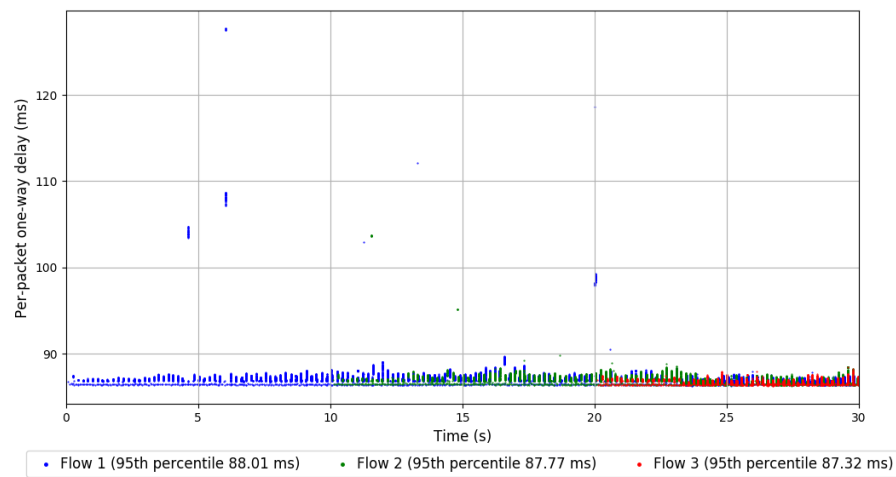
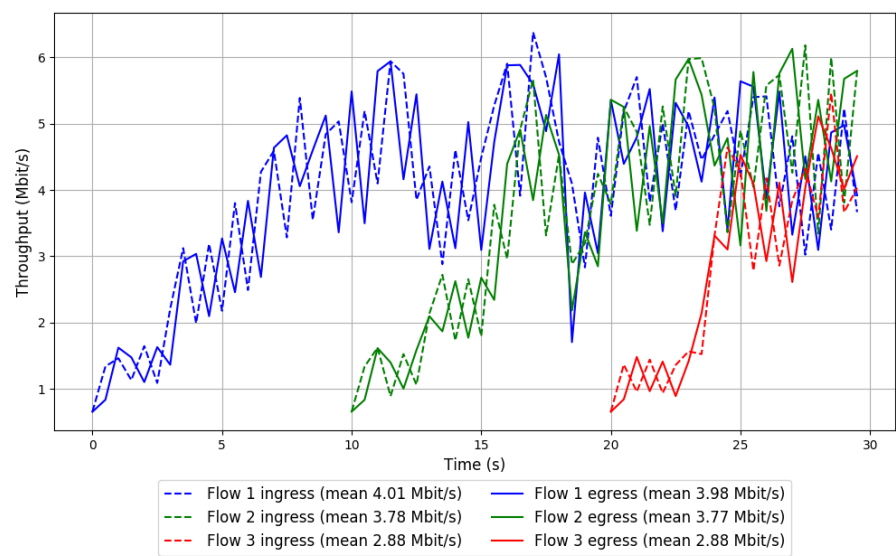
-- Flow 3:

Average throughput: 2.88 Mbit/s

95th percentile per-packet one-way delay: 87.321 ms

Loss rate: 0.00%

Run 10: Report of Sprout — Data Link

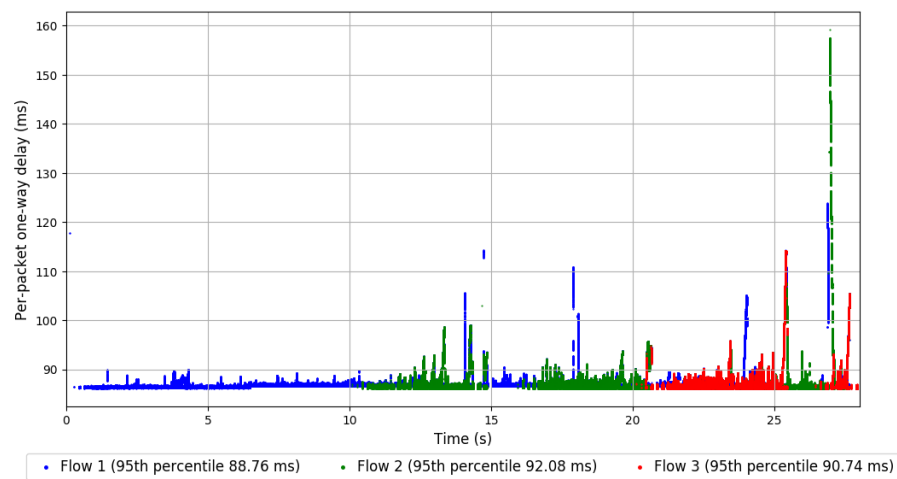
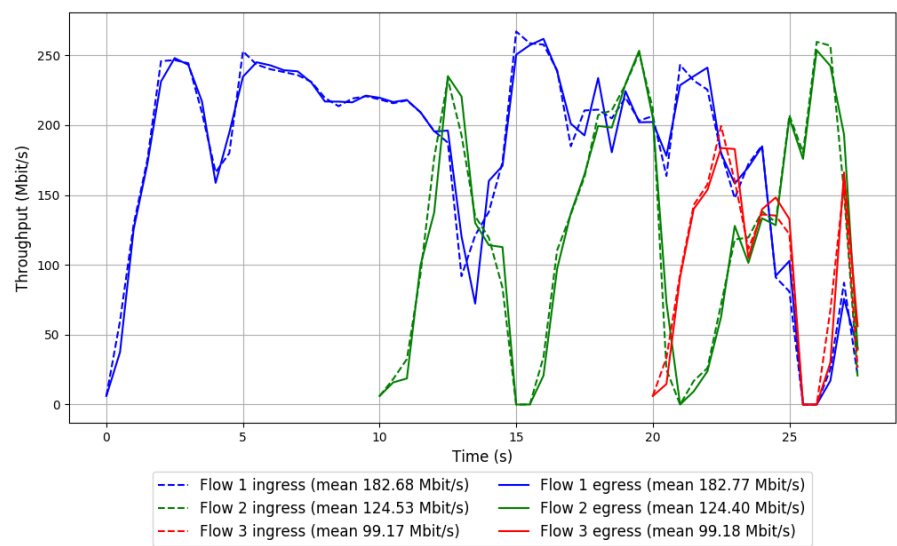


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-01-02 18:07:30
End at: 2018-01-02 18:08:00

# Below is generated by plot.py at 2018-01-02 22:17:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 287.27 Mbit/s
95th percentile per-packet one-way delay: 89.627 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 182.77 Mbit/s
95th percentile per-packet one-way delay: 88.761 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 124.40 Mbit/s
95th percentile per-packet one-way delay: 92.077 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 99.18 Mbit/s
95th percentile per-packet one-way delay: 90.740 ms
Loss rate: 0.00%
```


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

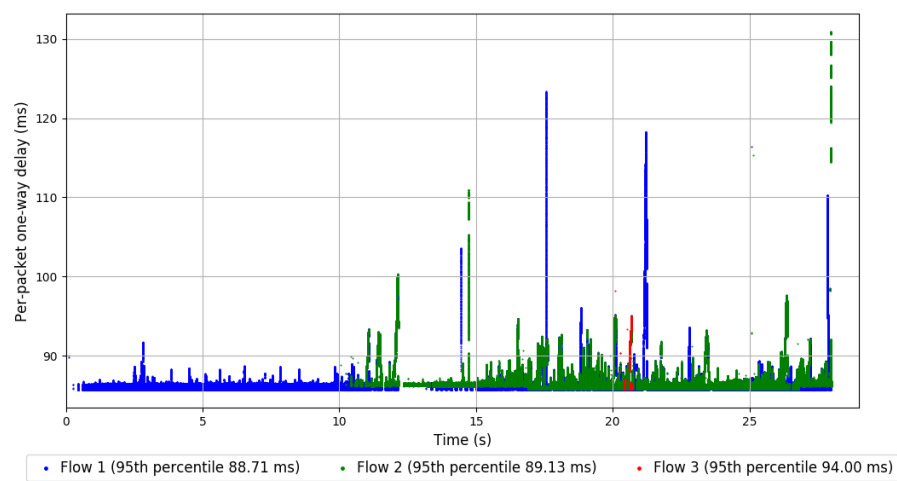
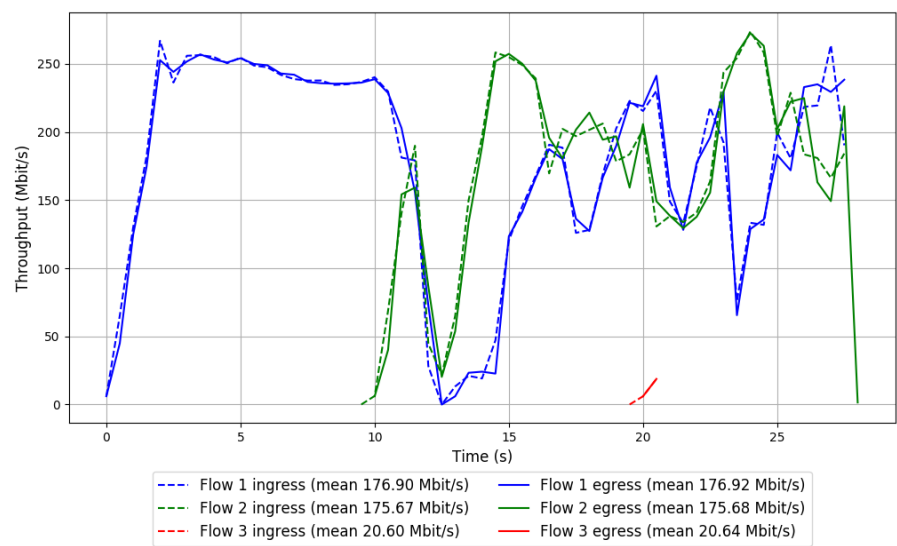


```
Run 2: Statistics of TaoVA-100x

Start at: 2018-01-02 18:22:30
End at: 2018-01-02 18:23:00

# Below is generated by plot.py at 2018-01-02 22:17:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 290.08 Mbit/s
95th percentile per-packet one-way delay: 88.915 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 176.92 Mbit/s
95th percentile per-packet one-way delay: 88.706 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 175.68 Mbit/s
95th percentile per-packet one-way delay: 89.131 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 20.64 Mbit/s
95th percentile per-packet one-way delay: 94.002 ms
Loss rate: 0.00%
```

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

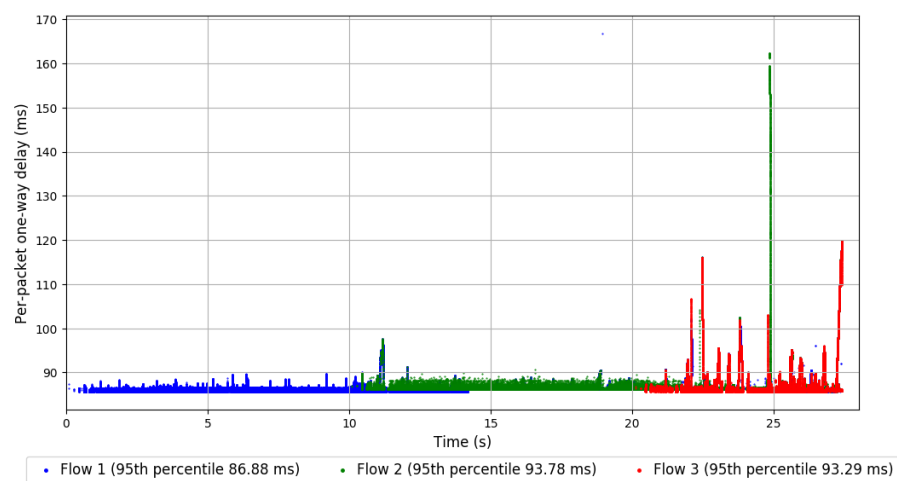
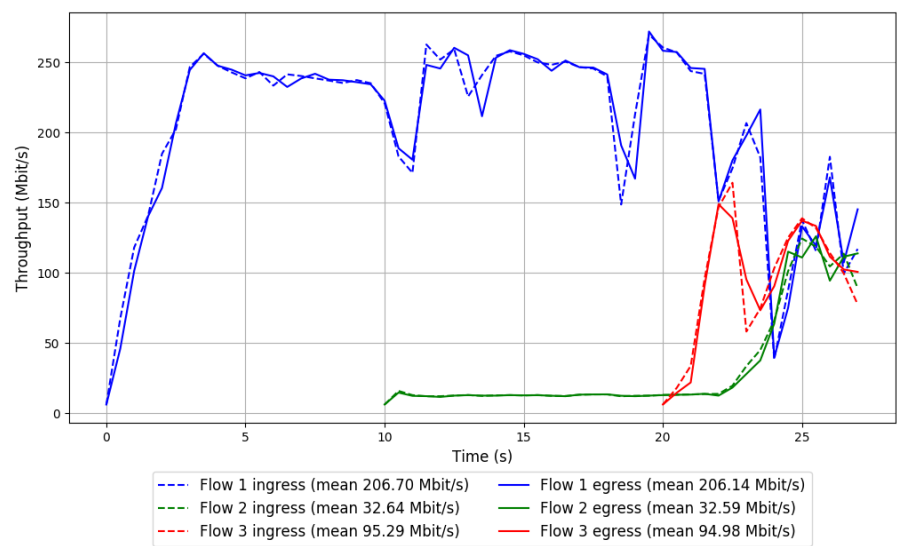


```
Run 3: Statistics of TaoVA-100x

Start at: 2018-01-02 18:37:22
End at: 2018-01-02 18:37:52

# Below is generated by plot.py at 2018-01-02 22:17:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 252.06 Mbit/s
95th percentile per-packet one-way delay: 87.888 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 206.14 Mbit/s
95th percentile per-packet one-way delay: 86.882 ms
Loss rate: 0.15%
-- Flow 2:
Average throughput: 32.59 Mbit/s
95th percentile per-packet one-way delay: 93.781 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 94.98 Mbit/s
95th percentile per-packet one-way delay: 93.288 ms
Loss rate: 0.00%
```

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



Run 4: Statistics of TaoVA-100x

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

End at: 2018-01-02 18:52:40

Below is generated by plot.py at 2018-01-02 22:17:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 286.05 Mbit/s

95th percentile per-packet one-way delay: 90.302 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 173.46 Mbit/s

95th percentile per-packet one-way delay: 88.069 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 131.92 Mbit/s

95th percentile per-packet one-way delay: 93.610 ms

Loss rate: 0.00%

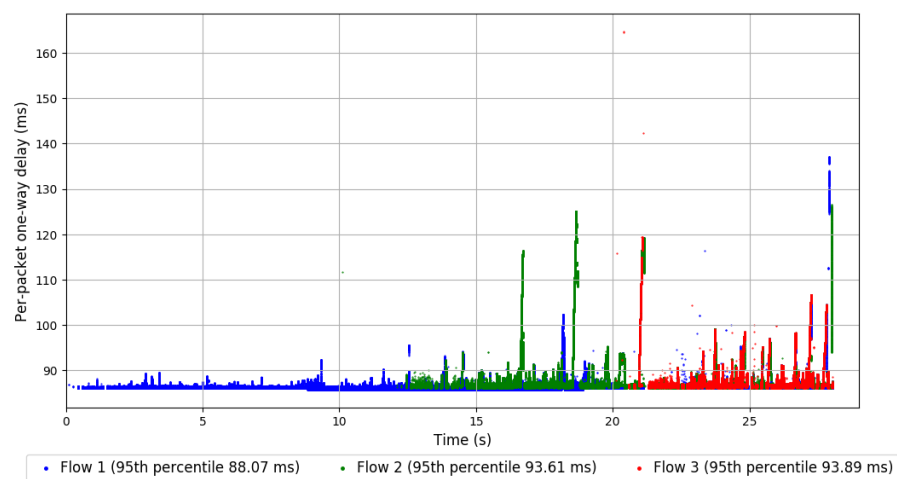
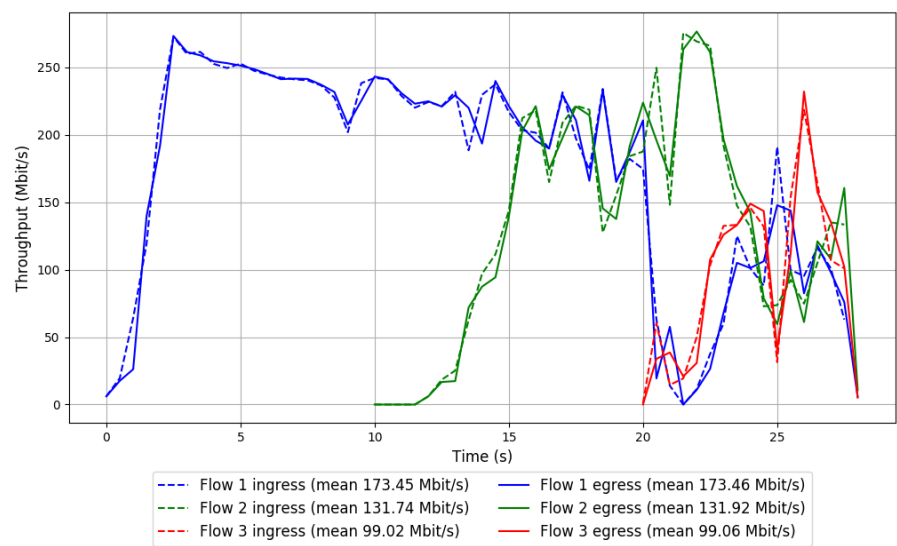
-- Flow 3:

Average throughput: 99.06 Mbit/s

95th percentile per-packet one-way delay: 93.892 ms

Loss rate: 0.01%

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

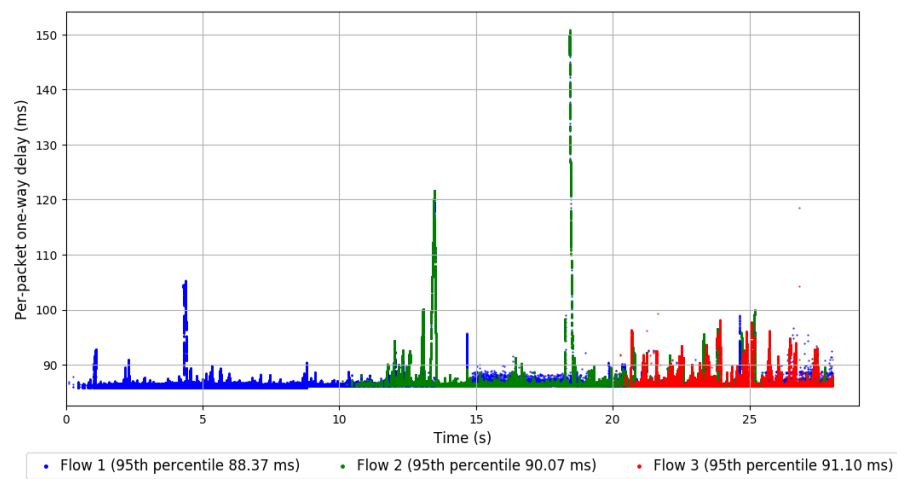
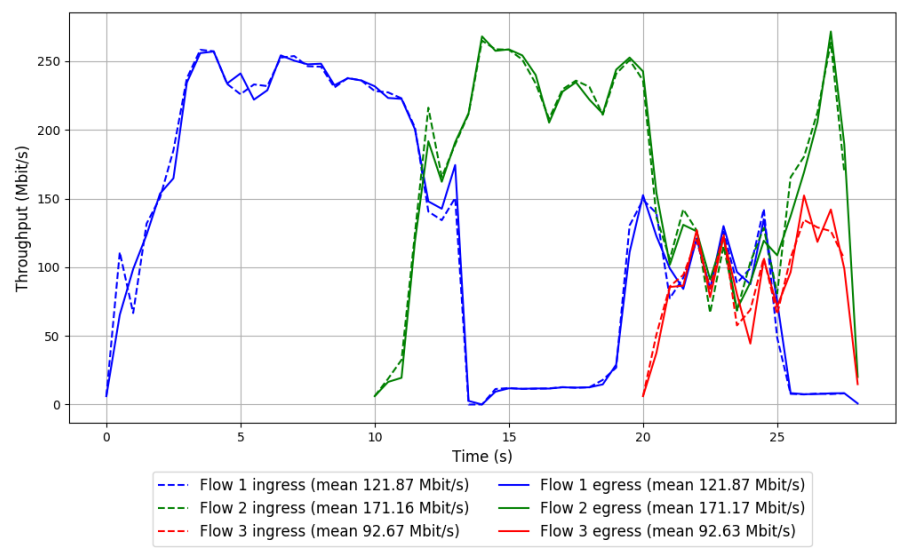


```
Run 5: Statistics of TaoVA-100x

Start at: 2018-01-02 19:06:40
End at: 2018-01-02 19:07:10

# Below is generated by plot.py at 2018-01-02 22:17:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 257.98 Mbit/s
95th percentile per-packet one-way delay: 89.580 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 121.87 Mbit/s
95th percentile per-packet one-way delay: 88.373 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 171.17 Mbit/s
95th percentile per-packet one-way delay: 90.070 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 92.63 Mbit/s
95th percentile per-packet one-way delay: 91.101 ms
Loss rate: 0.00%
```


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



Run 6: Statistics of TaoVA-100x

Start at: 2018-01-02 19:20:55

End at: 2018-01-02 19:21:25

Below is generated by plot.py at 2018-01-02 22:17:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 227.88 Mbit/s

95th percentile per-packet one-way delay: 88.269 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 195.38 Mbit/s

95th percentile per-packet one-way delay: 87.338 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 152.73 Mbit/s

95th percentile per-packet one-way delay: 88.896 ms

Loss rate: 0.00%

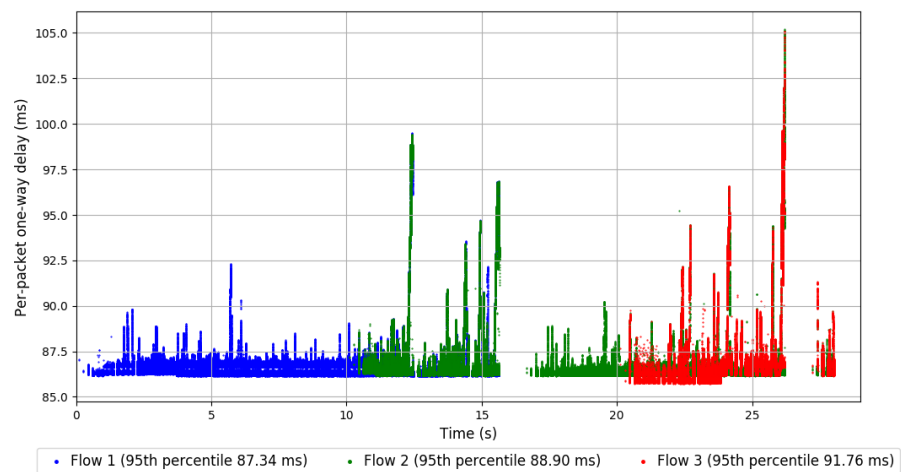
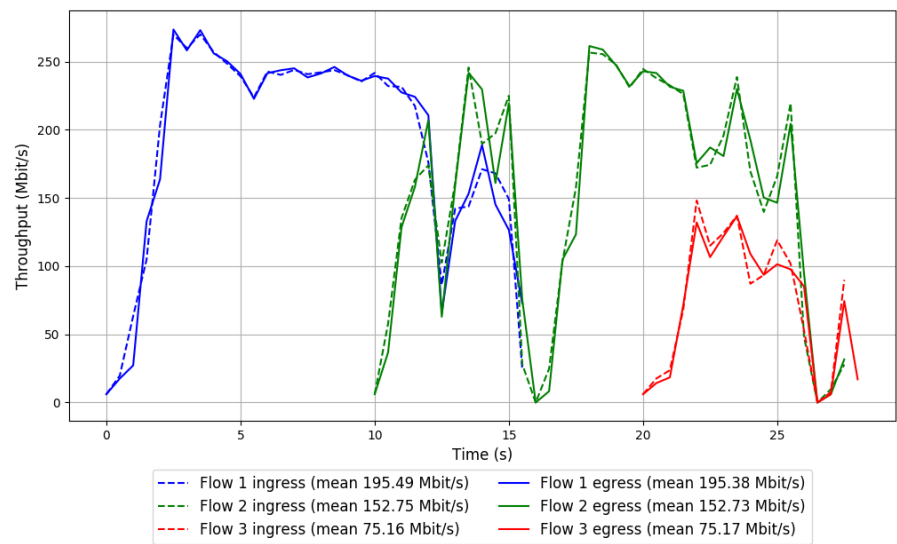
-- Flow 3:

Average throughput: 75.17 Mbit/s

95th percentile per-packet one-way delay: 91.759 ms

Loss rate: 0.00%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-01-02 19:35:14

End at: 2018-01-02 19:35:44

Below is generated by plot.py at 2018-01-02 22:20:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 291.51 Mbit/s

95th percentile per-packet one-way delay: 88.285 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 179.60 Mbit/s

95th percentile per-packet one-way delay: 87.763 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 152.18 Mbit/s

95th percentile per-packet one-way delay: 88.850 ms

Loss rate: 0.00%

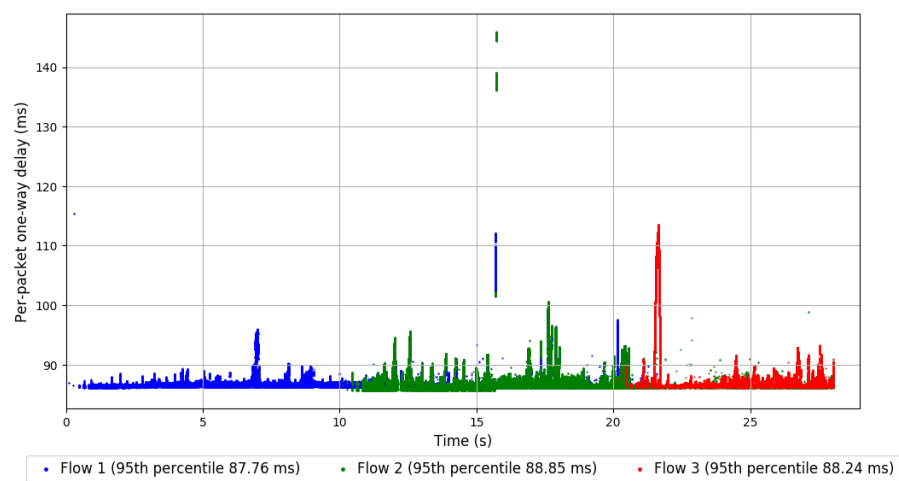
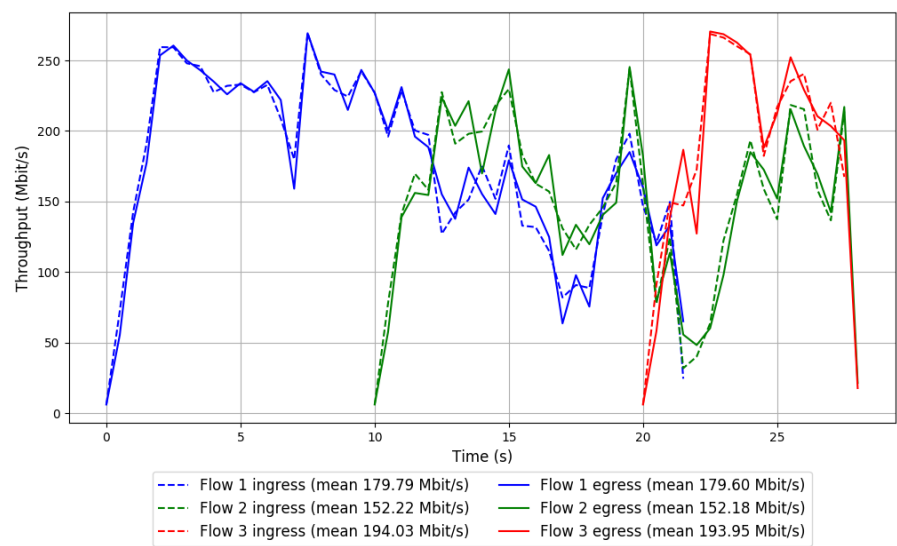
-- Flow 3:

Average throughput: 193.95 Mbit/s

95th percentile per-packet one-way delay: 88.244 ms

Loss rate: 0.00%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-01-02 19:49:39

End at: 2018-01-02 19:50:09

Below is generated by plot.py at 2018-01-02 22:20:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 231.28 Mbit/s

95th percentile per-packet one-way delay: 89.094 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 157.99 Mbit/s

95th percentile per-packet one-way delay: 88.443 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 103.47 Mbit/s

95th percentile per-packet one-way delay: 89.945 ms

Loss rate: 0.00%

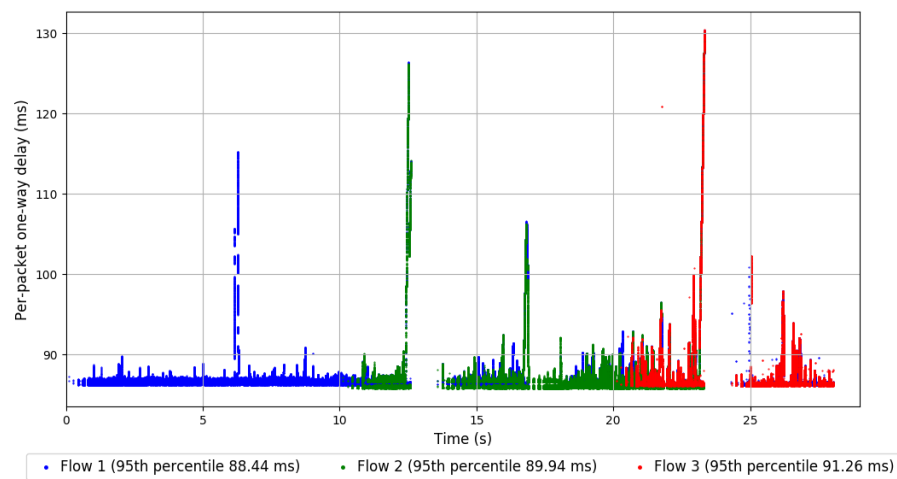
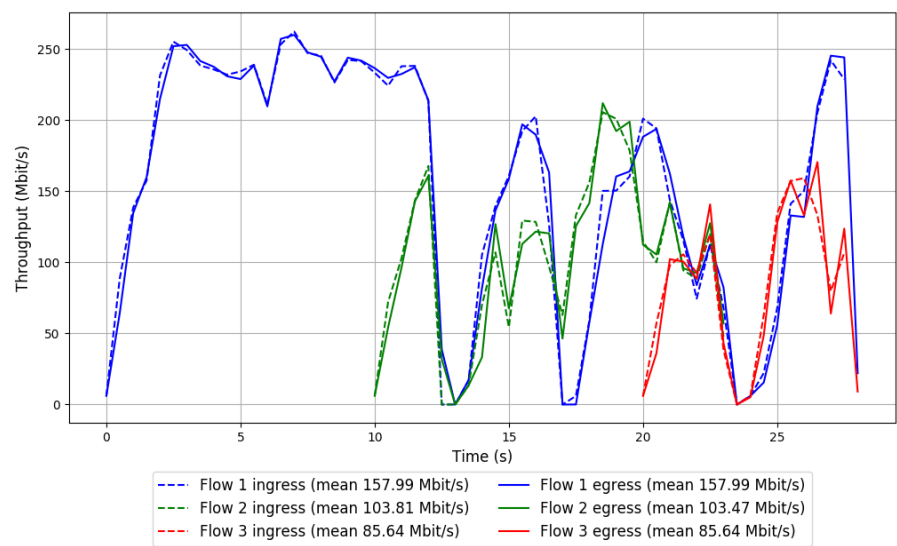
-- Flow 3:

Average throughput: 85.64 Mbit/s

95th percentile per-packet one-way delay: 91.259 ms

Loss rate: 0.00%

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

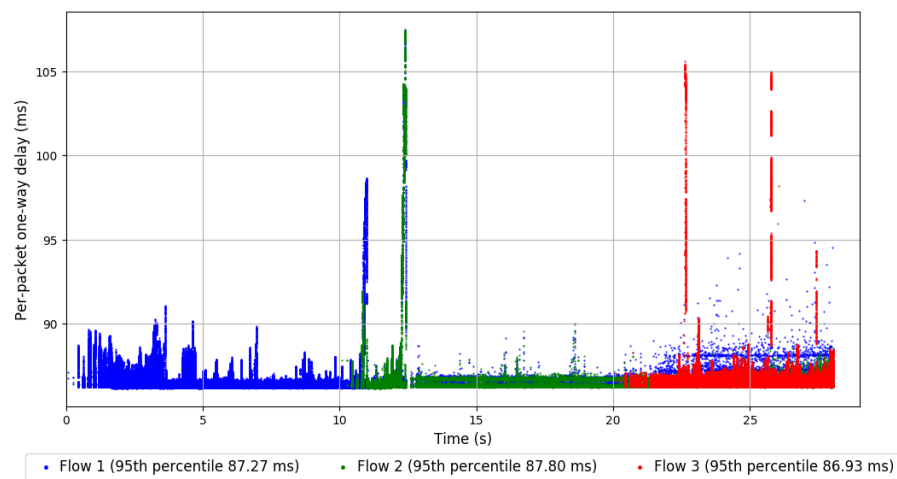
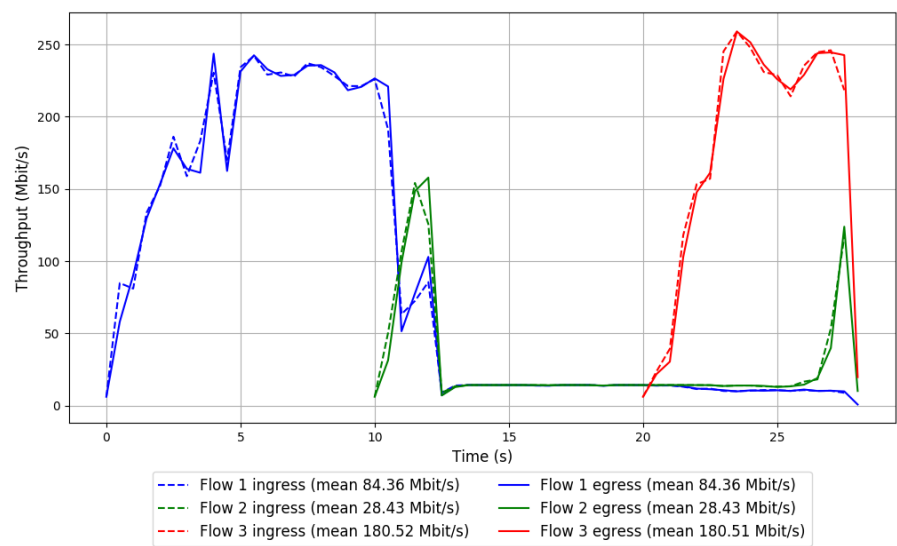


```
Run 9: Statistics of TaoVA-100x

Start at: 2018-01-02 20:04:15
End at: 2018-01-02 20:04:45

# Below is generated by plot.py at 2018-01-02 22:21:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 153.89 Mbit/s
95th percentile per-packet one-way delay: 87.105 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 84.36 Mbit/s
95th percentile per-packet one-way delay: 87.271 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 28.43 Mbit/s
95th percentile per-packet one-way delay: 87.796 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 180.51 Mbit/s
95th percentile per-packet one-way delay: 86.931 ms
Loss rate: 0.01%
```


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

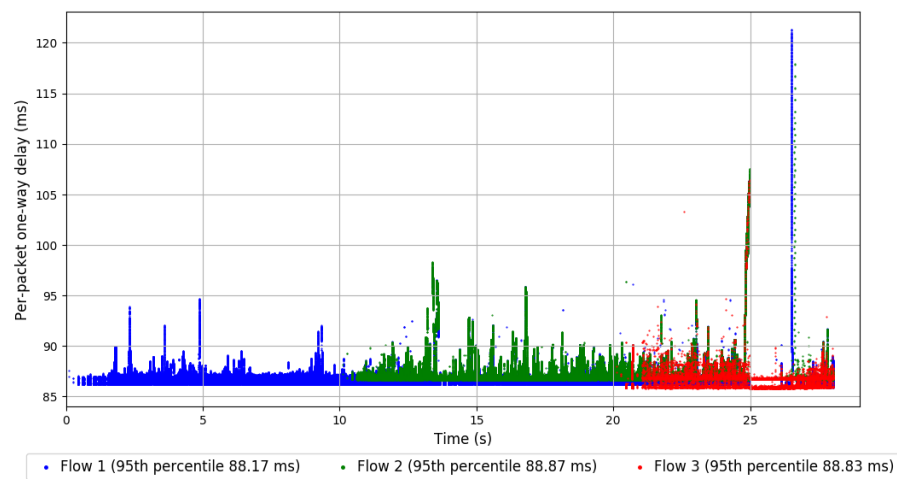
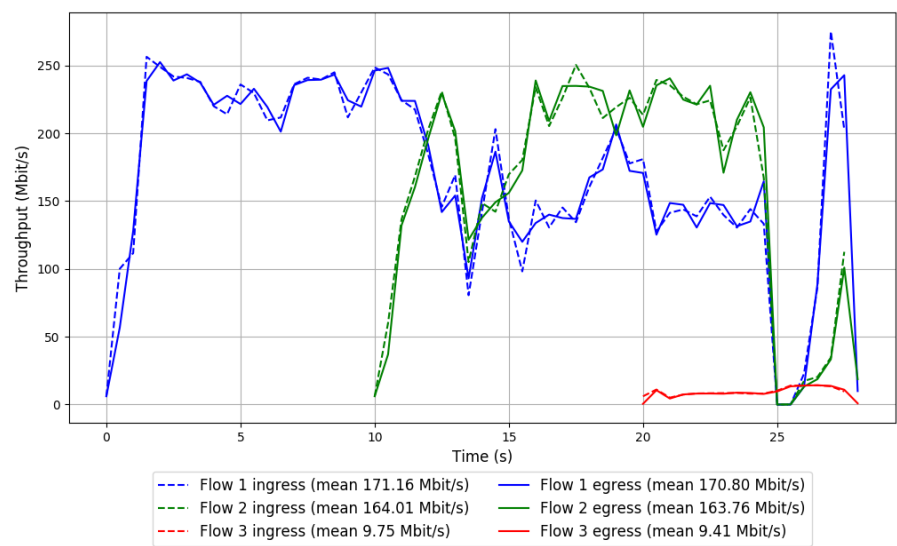


```
Run 10: Statistics of TaoVA-100x

Start at: 2018-01-02 20:18:31
End at: 2018-01-02 20:19:01

# Below is generated by plot.py at 2018-01-02 22:25:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 278.59 Mbit/s
95th percentile per-packet one-way delay: 88.469 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 170.80 Mbit/s
95th percentile per-packet one-way delay: 88.171 ms
Loss rate: 0.21%
-- Flow 2:
Average throughput: 163.76 Mbit/s
95th percentile per-packet one-way delay: 88.871 ms
Loss rate: 0.16%
-- Flow 3:
Average throughput: 9.41 Mbit/s
95th percentile per-packet one-way delay: 88.833 ms
Loss rate: 3.59%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2018-01-02 18:01:19

End at: 2018-01-02 18:01:49

Below is generated by plot.py at 2018-01-02 22:25:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 43.60 Mbit/s

95th percentile per-packet one-way delay: 88.700 ms

Loss rate: 0.67%

-- Flow 1:

Average throughput: 27.03 Mbit/s

95th percentile per-packet one-way delay: 88.230 ms

Loss rate: 1.02%

-- Flow 2:

Average throughput: 4.42 Mbit/s

95th percentile per-packet one-way delay: 87.370 ms

Loss rate: 0.54%

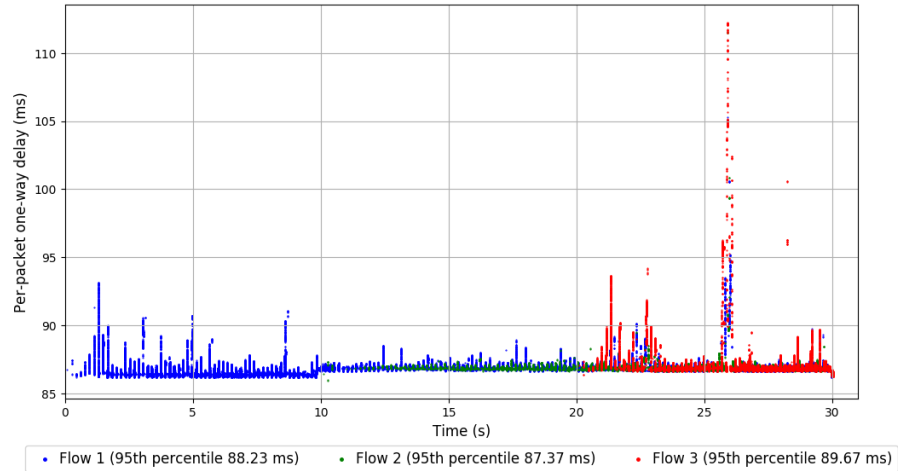
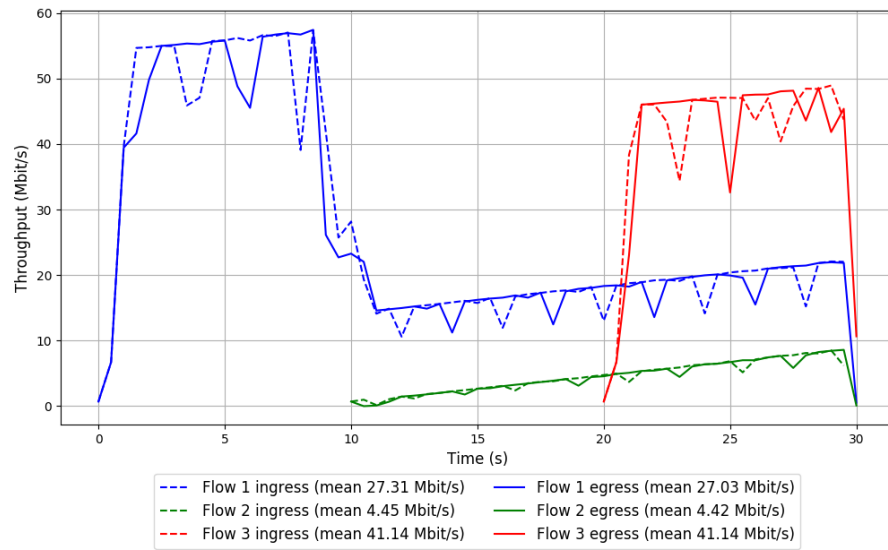
-- Flow 3:

Average throughput: 41.14 Mbit/s

95th percentile per-packet one-way delay: 89.666 ms

Loss rate: 0.00%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-01-02 18:16:13

End at: 2018-01-02 18:16:43

Below is generated by plot.py at 2018-01-02 22:25:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 166.84 Mbit/s

95th percentile per-packet one-way delay: 95.717 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 73.77 Mbit/s

95th percentile per-packet one-way delay: 93.769 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 129.66 Mbit/s

95th percentile per-packet one-way delay: 96.243 ms

Loss rate: 0.00%

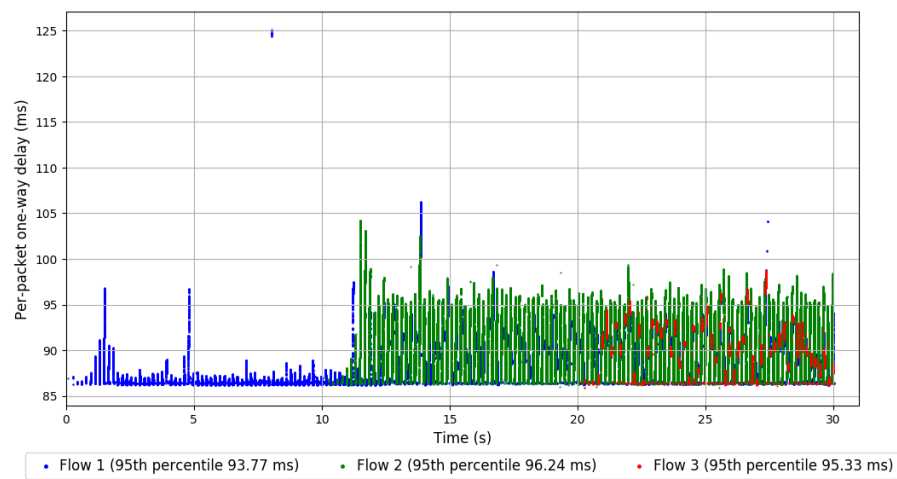
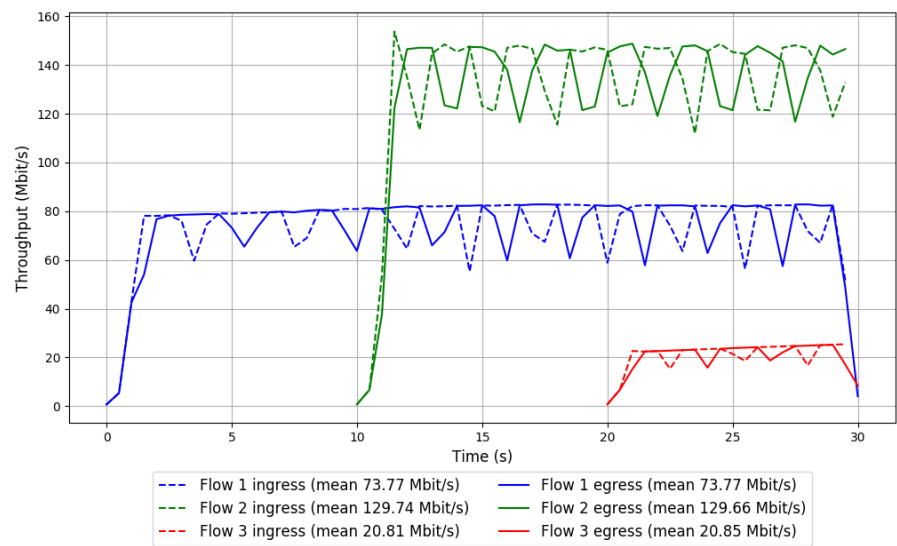
-- Flow 3:

Average throughput: 20.85 Mbit/s

95th percentile per-packet one-way delay: 95.326 ms

Loss rate: 0.01%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-01-02 18:31:06

End at: 2018-01-02 18:31:36

Below is generated by plot.py at 2018-01-02 22:25:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 128.01 Mbit/s

95th percentile per-packet one-way delay: 95.657 ms

Loss rate: 0.20%

-- Flow 1:

Average throughput: 27.63 Mbit/s

95th percentile per-packet one-way delay: 95.152 ms

Loss rate: 0.43%

-- Flow 2:

Average throughput: 97.93 Mbit/s

95th percentile per-packet one-way delay: 96.256 ms

Loss rate: 0.18%

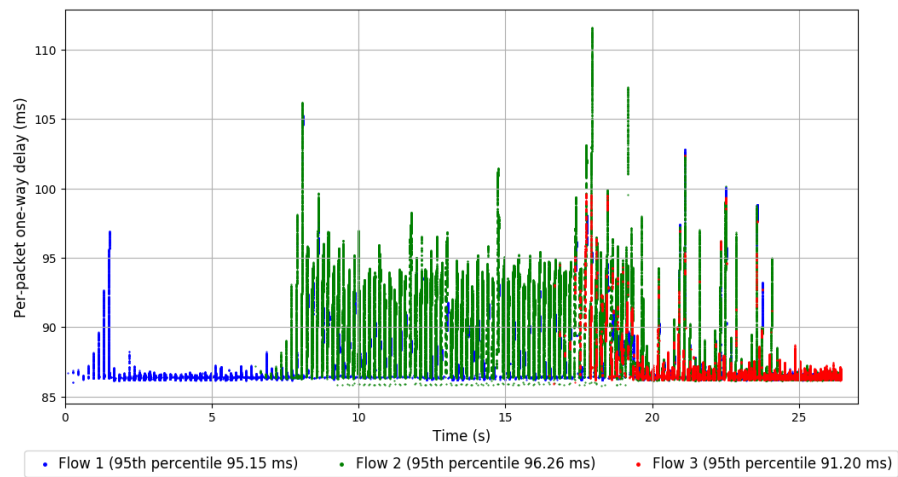
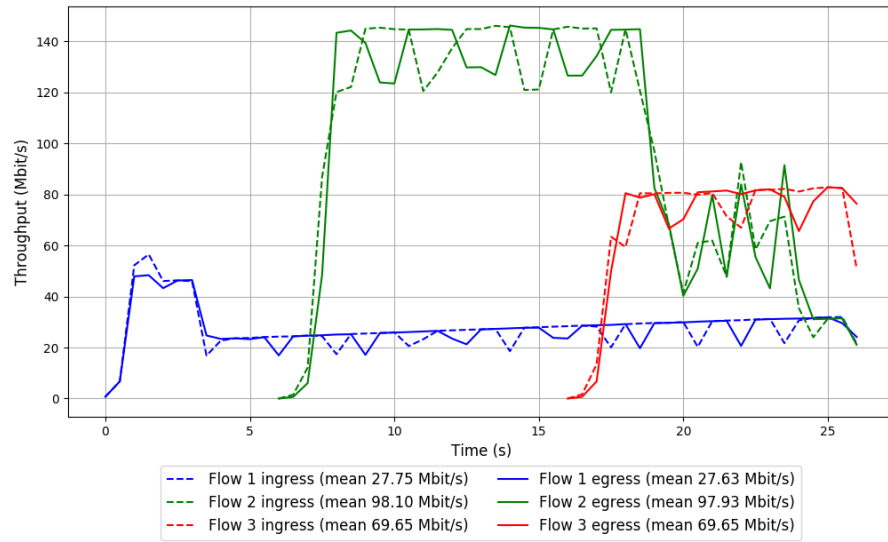
-- Flow 3:

Average throughput: 69.65 Mbit/s

95th percentile per-packet one-way delay: 91.197 ms

Loss rate: 0.00%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-01-02 18:45:55

End at: 2018-01-02 18:46:25

Below is generated by plot.py at 2018-01-02 22:25:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 140.75 Mbit/s

95th percentile per-packet one-way delay: 94.837 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 66.38 Mbit/s

95th percentile per-packet one-way delay: 93.071 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 110.82 Mbit/s

95th percentile per-packet one-way delay: 95.655 ms

Loss rate: 0.00%

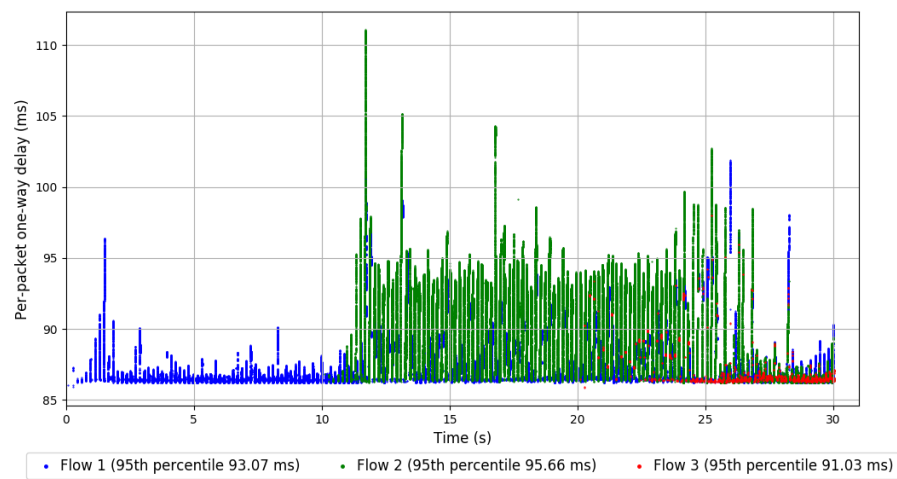
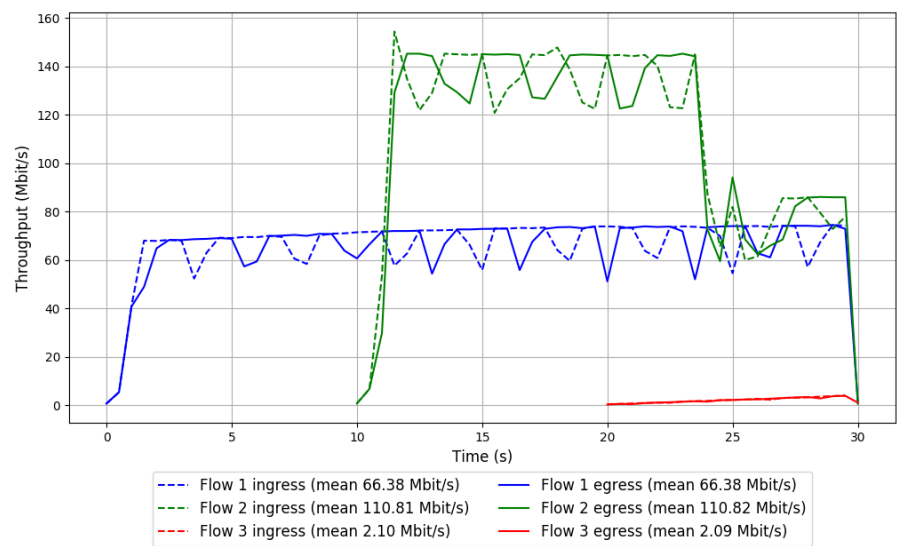
-- Flow 3:

Average throughput: 2.09 Mbit/s

95th percentile per-packet one-way delay: 91.035 ms

Loss rate: 0.35%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-01-02 19:00:29

End at: 2018-01-02 19:00:59

Below is generated by plot.py at 2018-01-02 22:25:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 99.65 Mbit/s

95th percentile per-packet one-way delay: 94.885 ms

Loss rate: 0.73%

-- Flow 1:

Average throughput: 40.63 Mbit/s

95th percentile per-packet one-way delay: 92.935 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 62.10 Mbit/s

95th percentile per-packet one-way delay: 96.711 ms

Loss rate: 1.72%

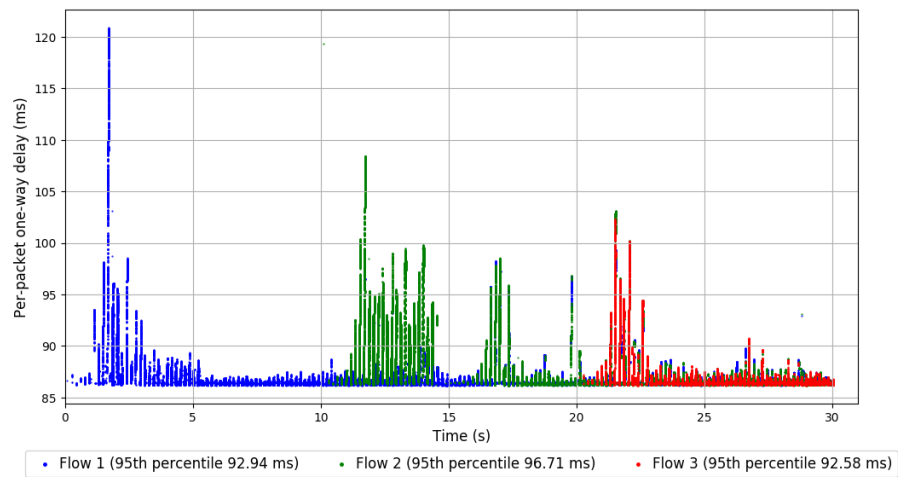
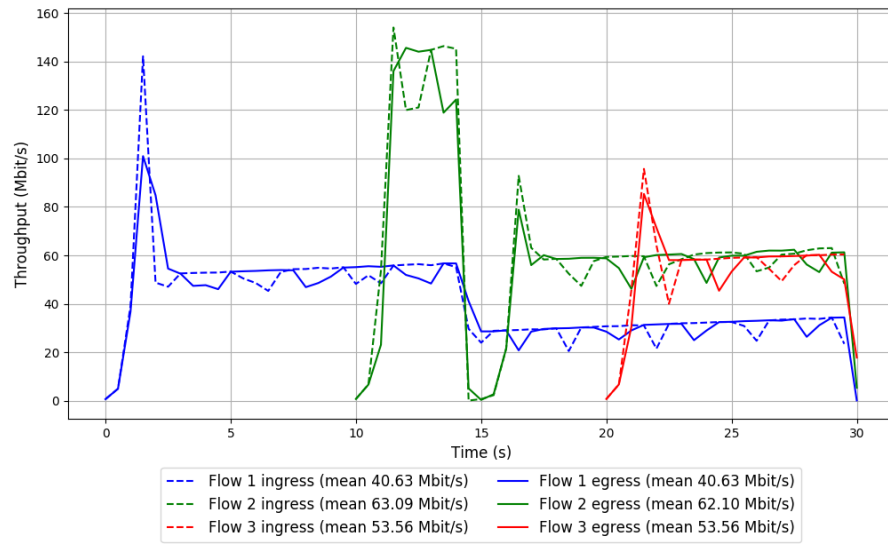
-- Flow 3:

Average throughput: 53.56 Mbit/s

95th percentile per-packet one-way delay: 92.576 ms

Loss rate: 0.00%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-01-02 19:14:47

End at: 2018-01-02 19:15:17

Run 6: Report of TCP Vegas — Data Link

Figure is missing

Figure is missing

Run 7: Statistics of TCP Vegas

Start at: 2018-01-02 19:28:59

End at: 2018-01-02 19:29:29

Below is generated by plot.py at 2018-01-02 22:25:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 100.31 Mbit/s

95th percentile per-packet one-way delay: 92.440 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 62.82 Mbit/s

95th percentile per-packet one-way delay: 89.435 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 24.33 Mbit/s

95th percentile per-packet one-way delay: 89.394 ms

Loss rate: 0.00%

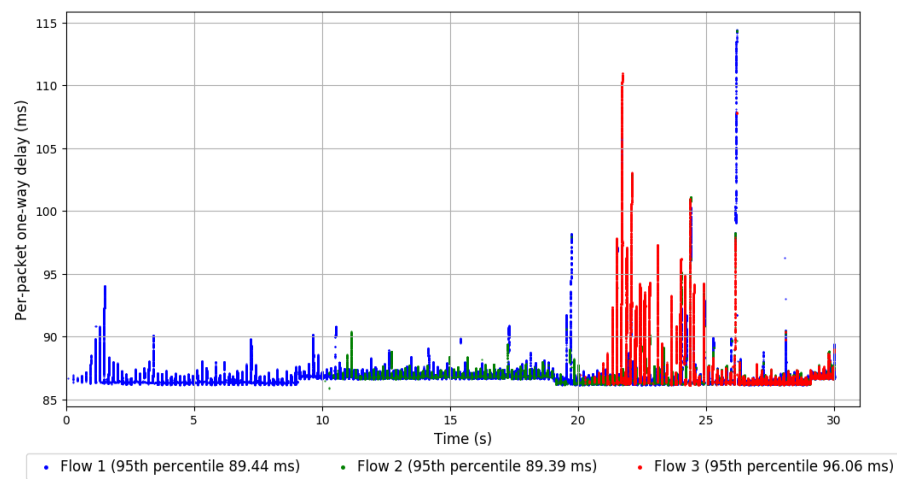
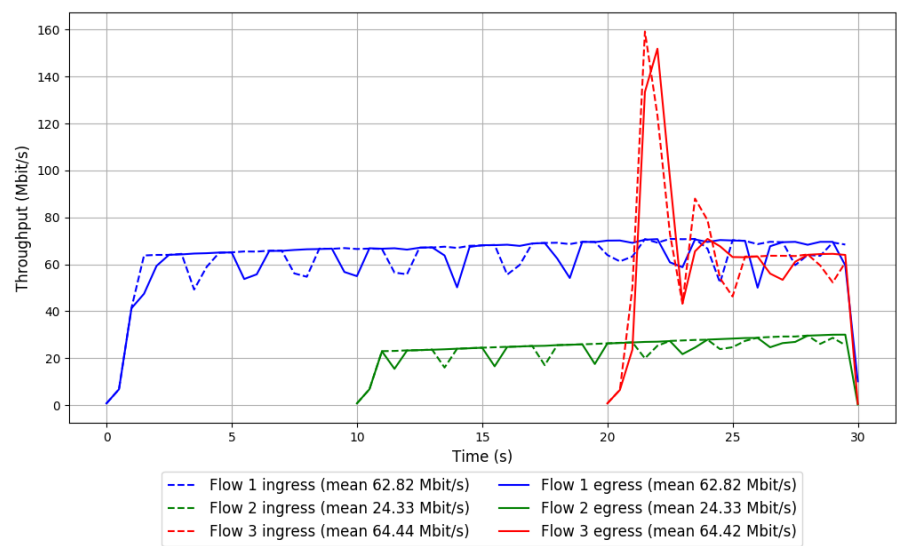
-- Flow 3:

Average throughput: 64.42 Mbit/s

95th percentile per-packet one-way delay: 96.057 ms

Loss rate: 0.00%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-01-02 19:43:27

End at: 2018-01-02 19:43:57

Below is generated by plot.py at 2018-01-02 22:25:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.48 Mbit/s

95th percentile per-packet one-way delay: 88.932 ms

Loss rate: 0.65%

-- Flow 1:

Average throughput: 35.00 Mbit/s

95th percentile per-packet one-way delay: 87.992 ms

Loss rate: 0.80%

-- Flow 2:

Average throughput: 40.50 Mbit/s

95th percentile per-packet one-way delay: 90.415 ms

Loss rate: 1.01%

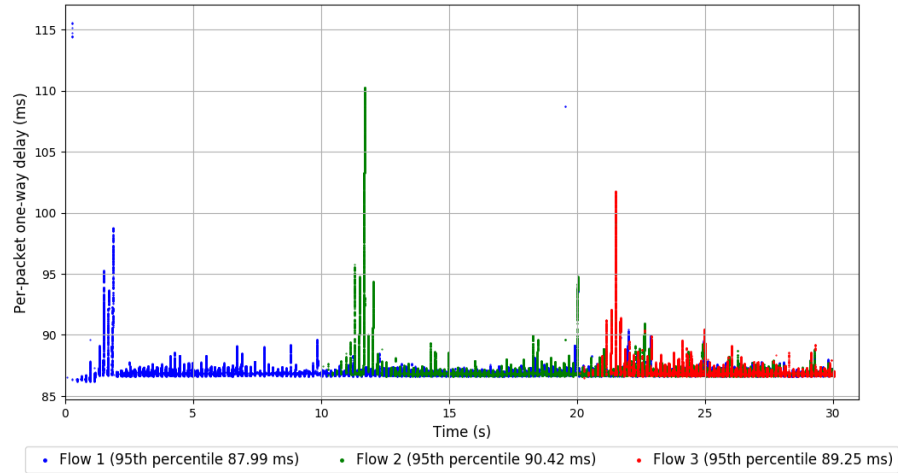
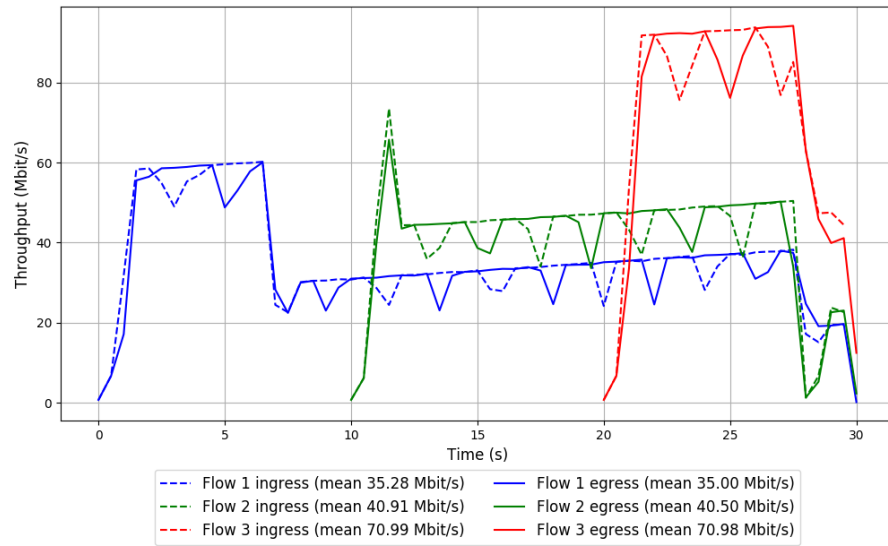
-- Flow 3:

Average throughput: 70.98 Mbit/s

95th percentile per-packet one-way delay: 89.247 ms

Loss rate: 0.01%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-01-02 19:58:06

End at: 2018-01-02 19:58:36

Below is generated by plot.py at 2018-01-02 22:25:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 120.04 Mbit/s

95th percentile per-packet one-way delay: 94.730 ms

Loss rate: 0.96%

-- Flow 1:

Average throughput: 43.92 Mbit/s

95th percentile per-packet one-way delay: 93.450 ms

Loss rate: 2.59%

-- Flow 2:

Average throughput: 100.60 Mbit/s

95th percentile per-packet one-way delay: 95.010 ms

Loss rate: 0.00%

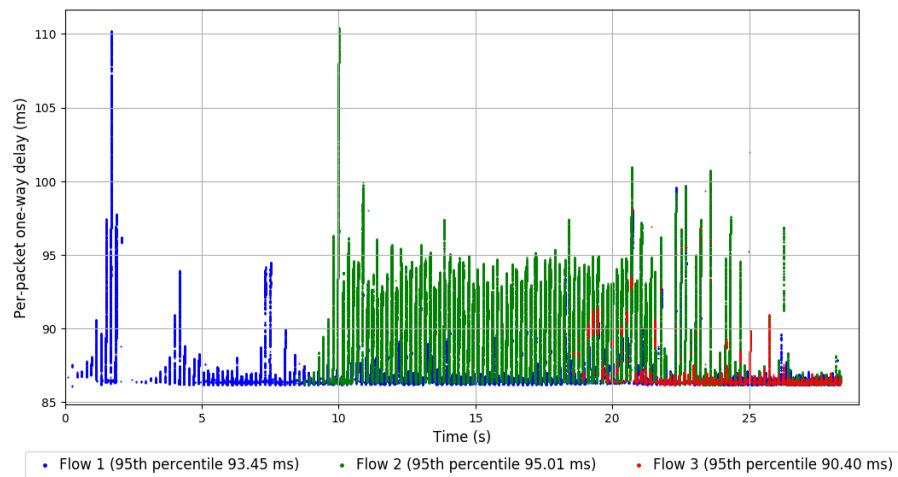
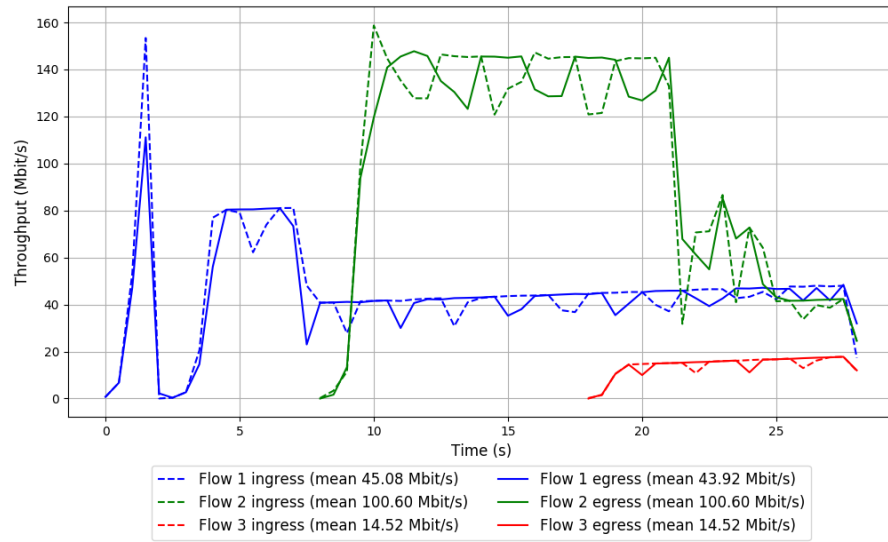
-- Flow 3:

Average throughput: 14.52 Mbit/s

95th percentile per-packet one-way delay: 90.400 ms

Loss rate: 0.00%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-01-02 20:12:19

End at: 2018-01-02 20:12:49

Below is generated by plot.py at 2018-01-02 22:25:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 103.34 Mbit/s

95th percentile per-packet one-way delay: 88.511 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 56.21 Mbit/s

95th percentile per-packet one-way delay: 88.362 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 46.57 Mbit/s

95th percentile per-packet one-way delay: 88.700 ms

Loss rate: 0.01%

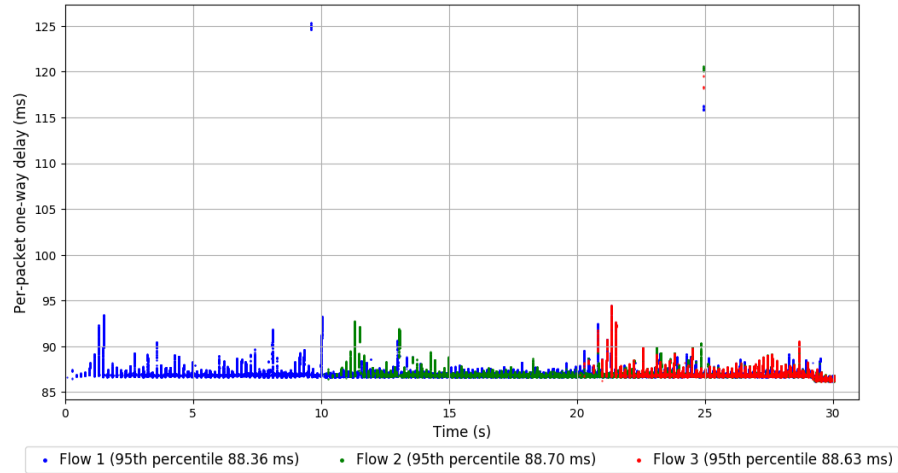
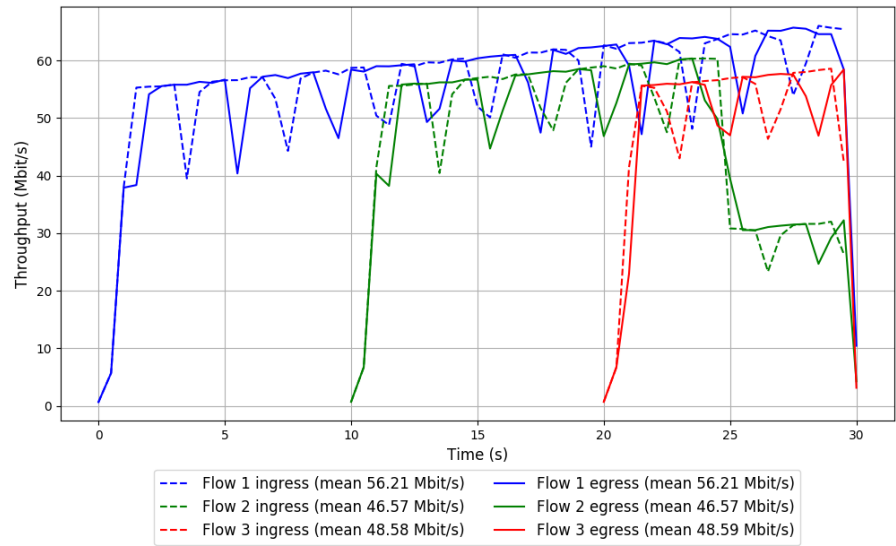
-- Flow 3:

Average throughput: 48.59 Mbit/s

95th percentile per-packet one-way delay: 88.634 ms

Loss rate: 0.00%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-01-02 17:58:26

End at: 2018-01-02 17:58:56

Below is generated by plot.py at 2018-01-02 22:25:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 208.31 Mbit/s

95th percentile per-packet one-way delay: 215.286 ms

Loss rate: 0.83%

-- Flow 1:

Average throughput: 158.18 Mbit/s

95th percentile per-packet one-way delay: 230.458 ms

Loss rate: 1.01%

-- Flow 2:

Average throughput: 51.11 Mbit/s

95th percentile per-packet one-way delay: 162.530 ms

Loss rate: 0.00%

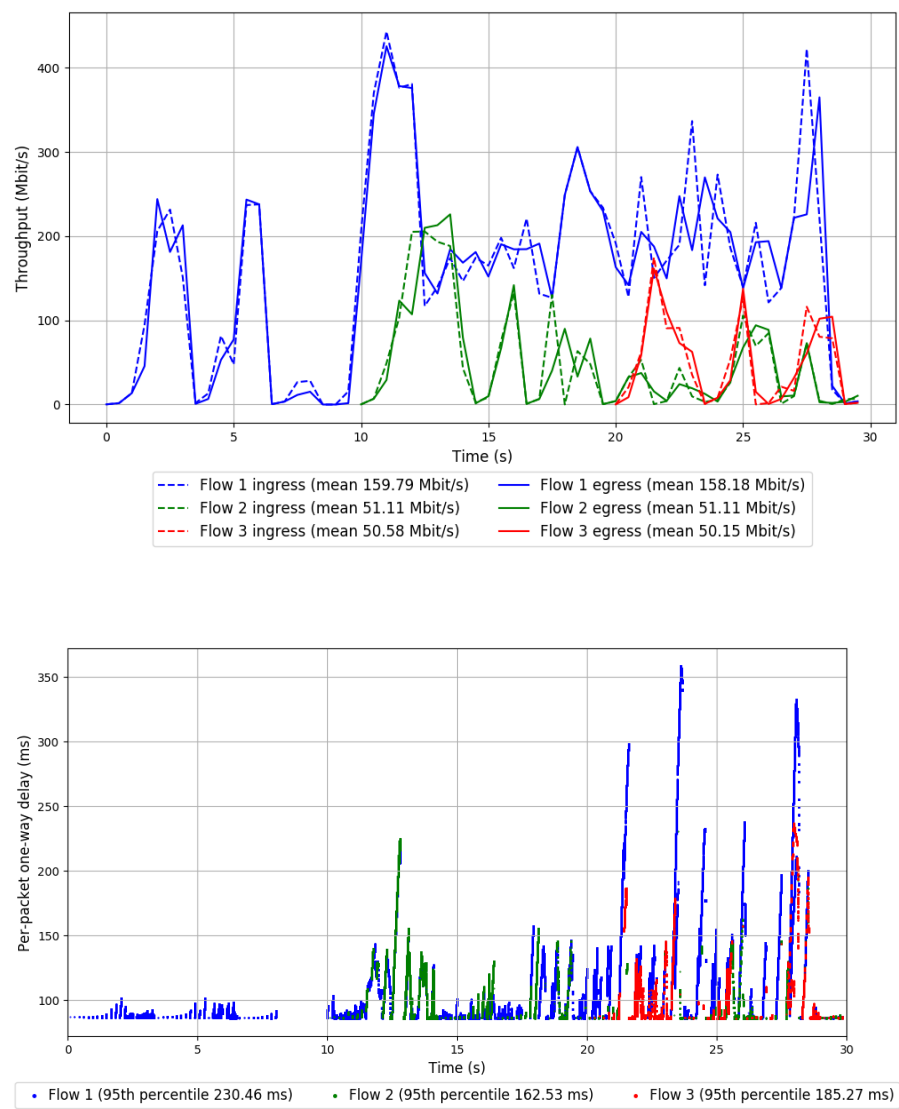
-- Flow 3:

Average throughput: 50.15 Mbit/s

95th percentile per-packet one-way delay: 185.273 ms

Loss rate: 0.85%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-01-02 18:13:16

End at: 2018-01-02 18:13:46

Below is generated by plot.py at 2018-01-02 22:25:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 273.23 Mbit/s

95th percentile per-packet one-way delay: 171.446 ms

Loss rate: 0.53%

-- Flow 1:

Average throughput: 166.04 Mbit/s

95th percentile per-packet one-way delay: 145.004 ms

Loss rate: 0.18%

-- Flow 2:

Average throughput: 145.85 Mbit/s

95th percentile per-packet one-way delay: 201.166 ms

Loss rate: 0.69%

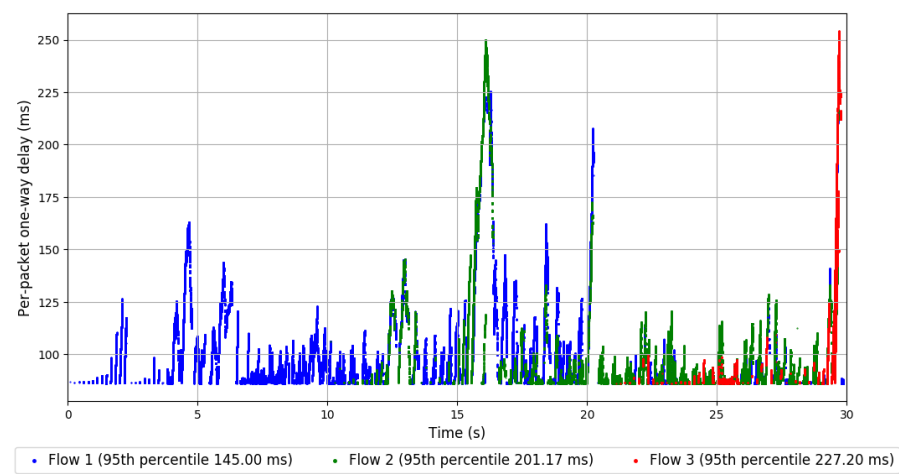
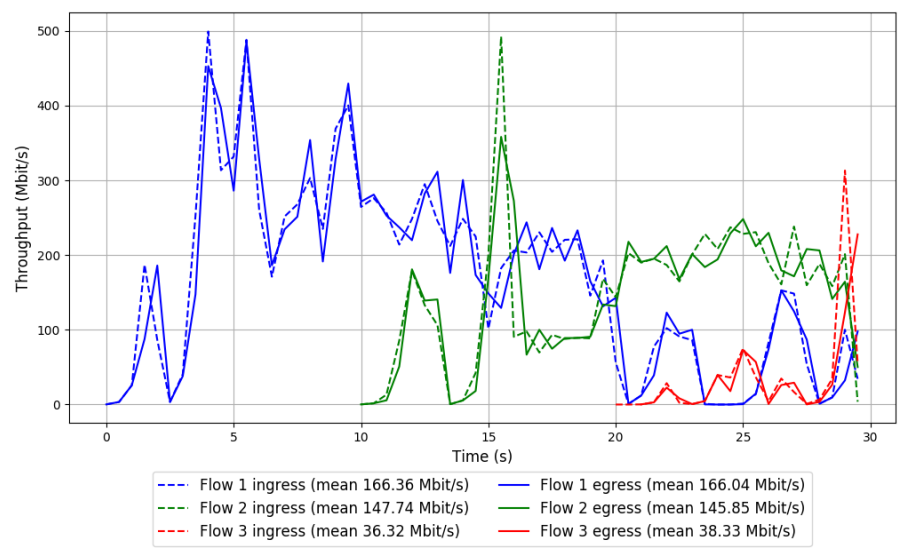
-- Flow 3:

Average throughput: 38.33 Mbit/s

95th percentile per-packet one-way delay: 227.203 ms

Loss rate: 4.10%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-01-02 18:28:08

End at: 2018-01-02 18:28:38

Below is generated by plot.py at 2018-01-02 22:25:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 273.29 Mbit/s

95th percentile per-packet one-way delay: 158.735 ms

Loss rate: 0.40%

-- Flow 1:

Average throughput: 140.49 Mbit/s

95th percentile per-packet one-way delay: 155.488 ms

Loss rate: 0.30%

-- Flow 2:

Average throughput: 161.94 Mbit/s

95th percentile per-packet one-way delay: 147.308 ms

Loss rate: 0.61%

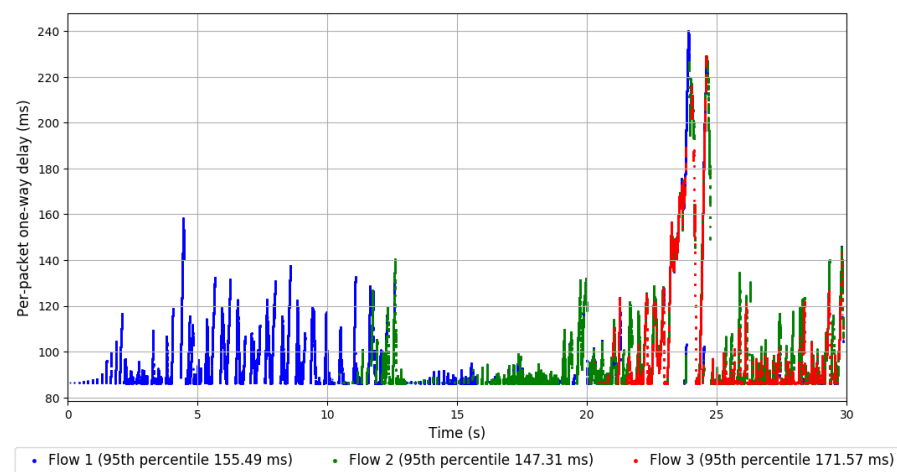
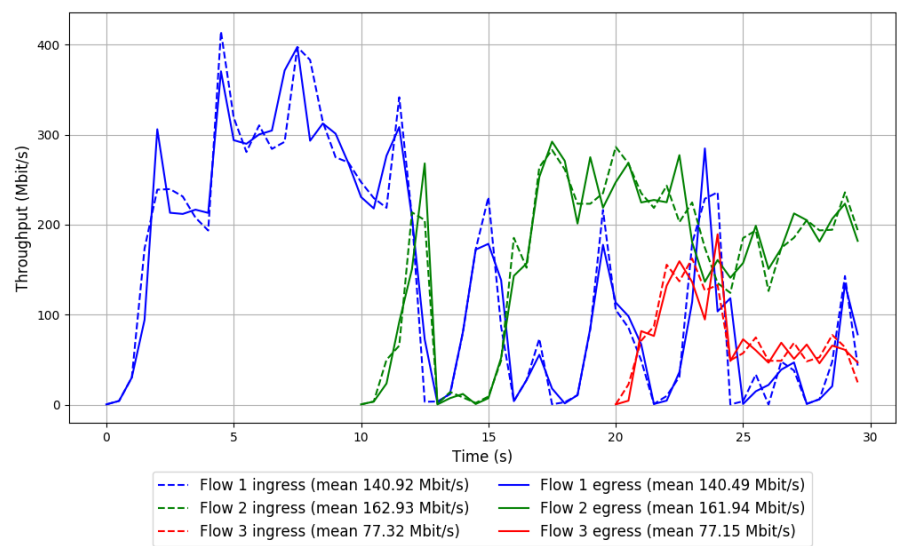
-- Flow 3:

Average throughput: 77.15 Mbit/s

95th percentile per-packet one-way delay: 171.568 ms

Loss rate: 0.07%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-01-02 18:43:01

End at: 2018-01-02 18:43:31

Below is generated by plot.py at 2018-01-02 22:25:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 213.18 Mbit/s

95th percentile per-packet one-way delay: 228.455 ms

Loss rate: 2.51%

-- Flow 1:

Average throughput: 105.16 Mbit/s

95th percentile per-packet one-way delay: 244.283 ms

Loss rate: 3.31%

-- Flow 2:

Average throughput: 72.18 Mbit/s

95th percentile per-packet one-way delay: 187.095 ms

Loss rate: 0.60%

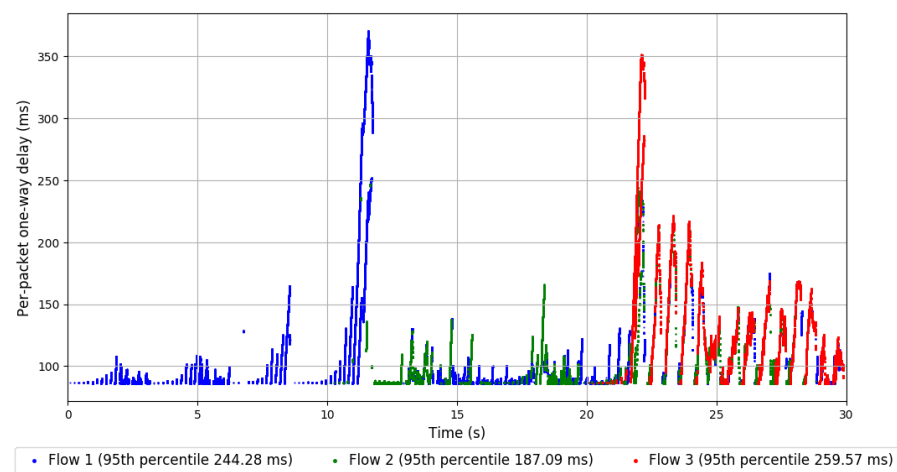
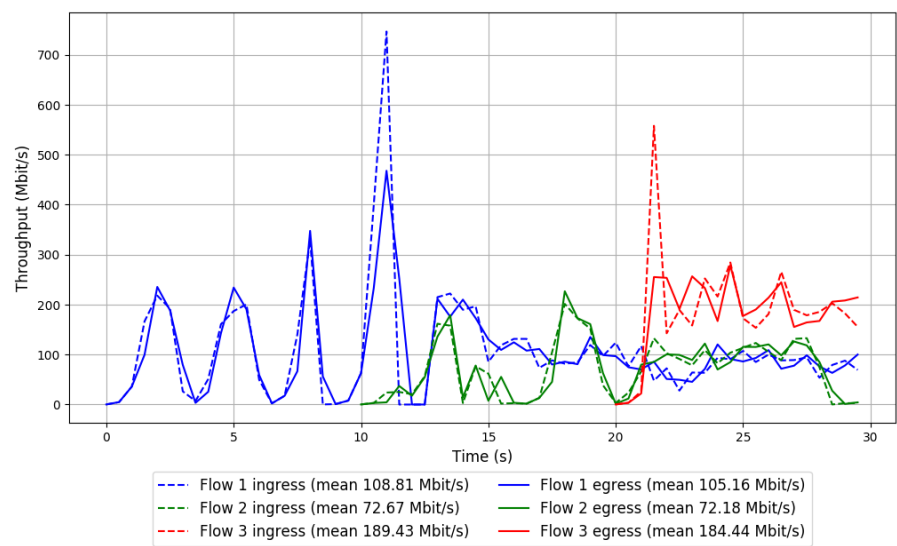
-- Flow 3:

Average throughput: 184.44 Mbit/s

95th percentile per-packet one-way delay: 259.567 ms

Loss rate: 2.59%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-01-02 18:57:27

End at: 2018-01-02 18:57:57

Below is generated by plot.py at 2018-01-02 22:26:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 295.35 Mbit/s

95th percentile per-packet one-way delay: 361.967 ms

Loss rate: 14.71%

-- Flow 1:

Average throughput: 265.64 Mbit/s

95th percentile per-packet one-way delay: 365.411 ms

Loss rate: 15.83%

-- Flow 2:

Average throughput: 36.75 Mbit/s

95th percentile per-packet one-way delay: 229.018 ms

Loss rate: 4.10%

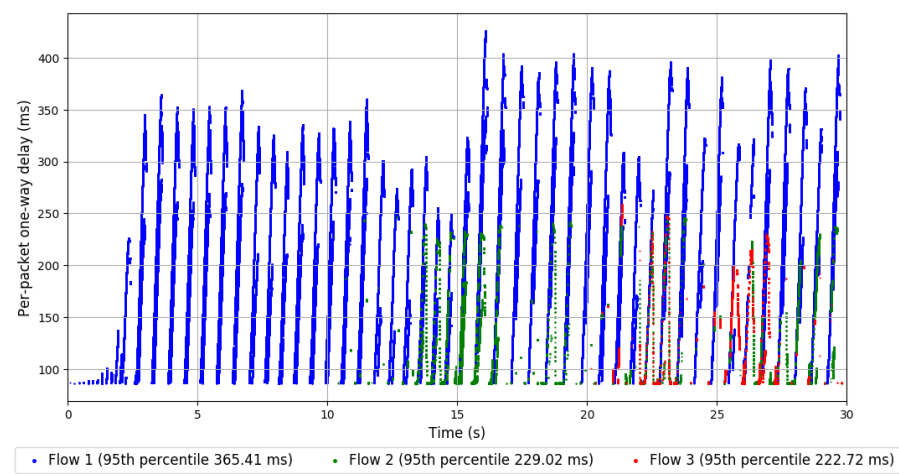
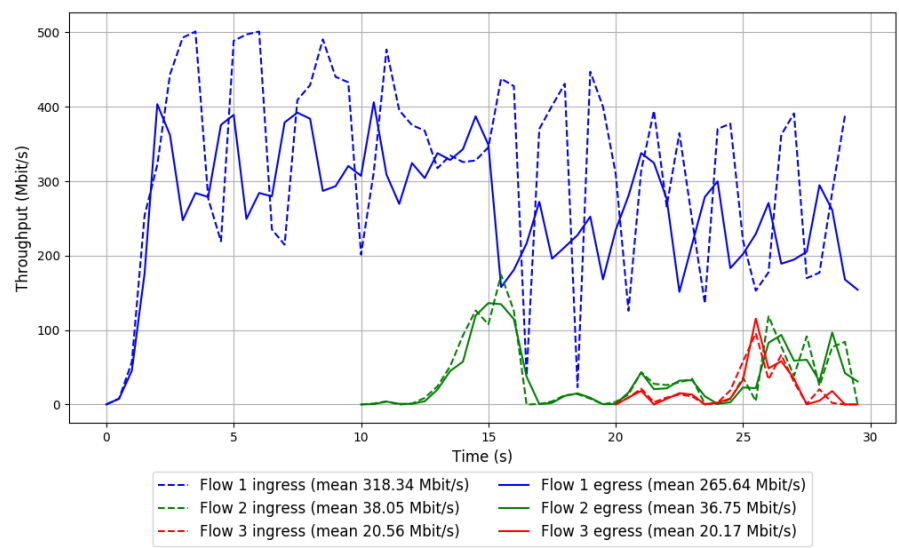
-- Flow 3:

Average throughput: 20.17 Mbit/s

95th percentile per-packet one-way delay: 222.721 ms

Loss rate: 2.08%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-01-02 19:11:48

End at: 2018-01-02 19:12:18

Below is generated by plot.py at 2018-01-02 22:26:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 275.36 Mbit/s

95th percentile per-packet one-way delay: 251.009 ms

Loss rate: 0.97%

-- Flow 1:

Average throughput: 228.02 Mbit/s

95th percentile per-packet one-way delay: 263.972 ms

Loss rate: 1.05%

-- Flow 2:

Average throughput: 56.17 Mbit/s

95th percentile per-packet one-way delay: 181.875 ms

Loss rate: 0.32%

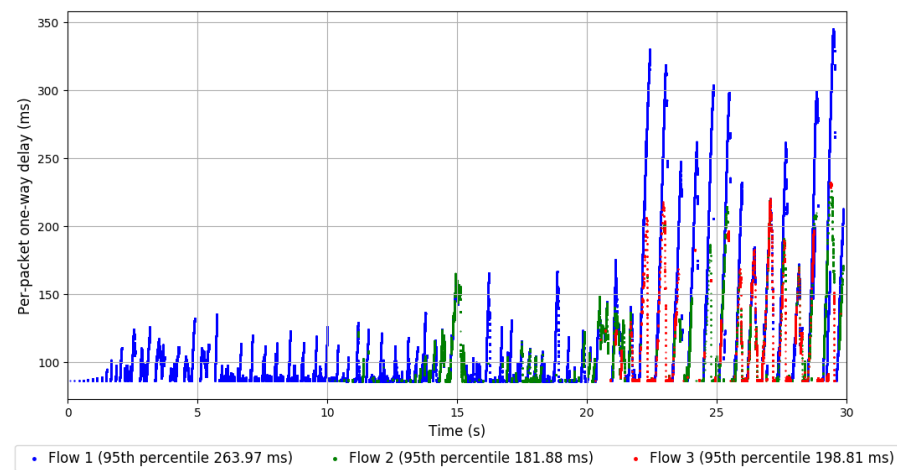
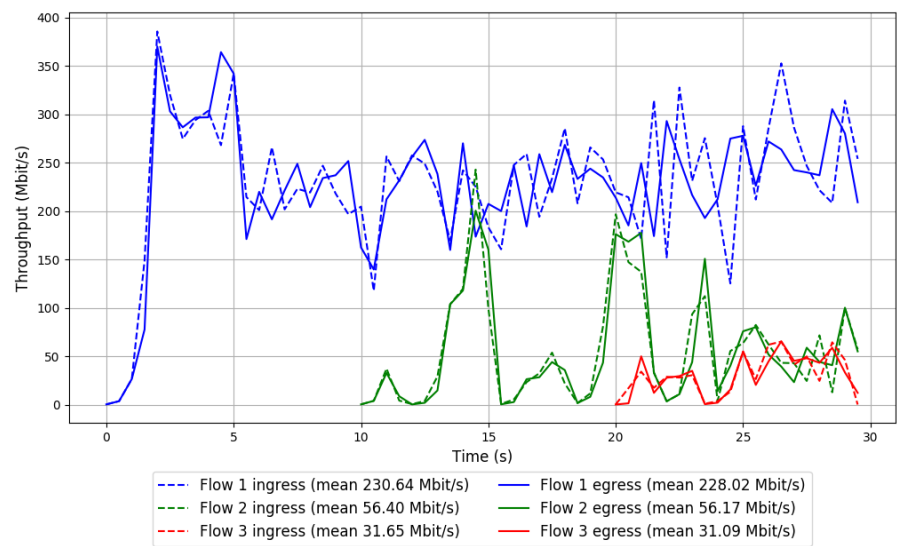
-- Flow 3:

Average throughput: 31.09 Mbit/s

95th percentile per-packet one-way delay: 198.810 ms

Loss rate: 1.44%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-01-02 19:26:06

End at: 2018-01-02 19:26:36

Below is generated by plot.py at 2018-01-02 22:26:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 199.74 Mbit/s

95th percentile per-packet one-way delay: 134.778 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 100.51 Mbit/s

95th percentile per-packet one-way delay: 126.140 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 94.33 Mbit/s

95th percentile per-packet one-way delay: 136.760 ms

Loss rate: 0.00%

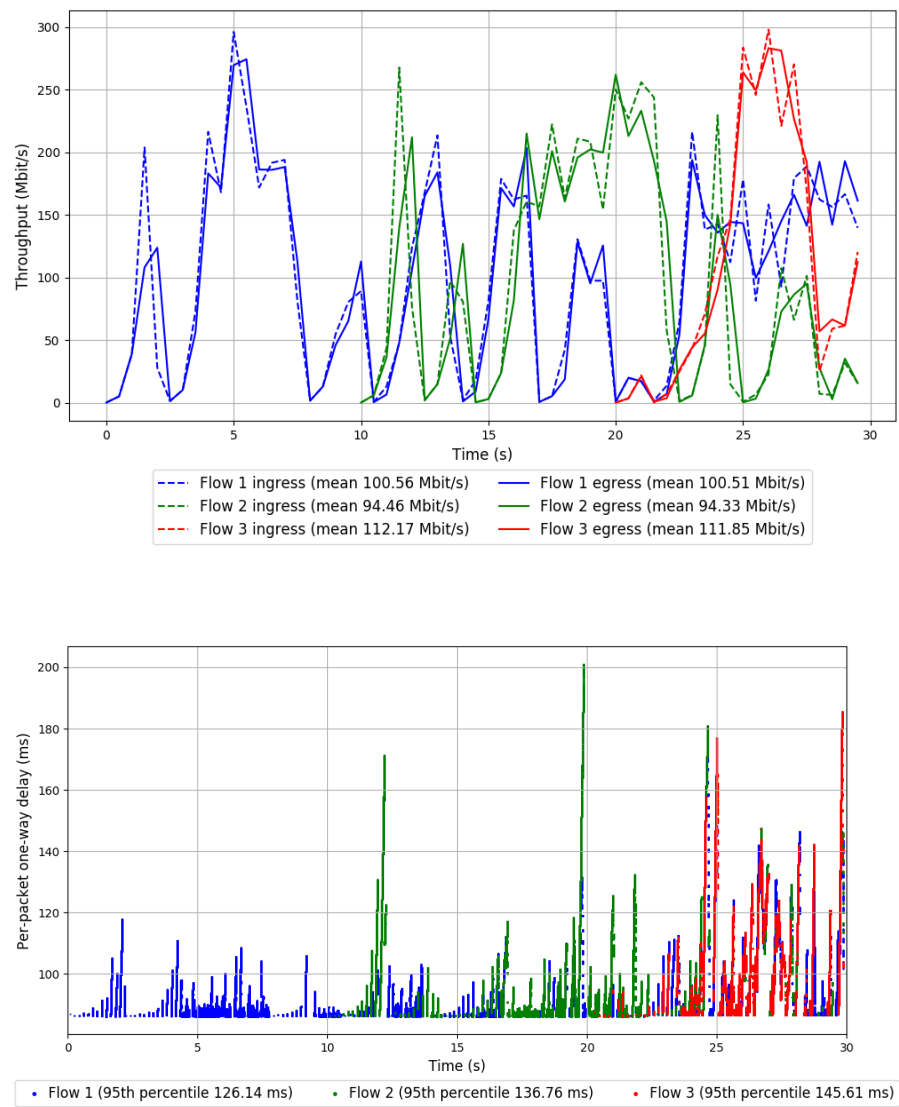
-- Flow 3:

Average throughput: 111.85 Mbit/s

95th percentile per-packet one-way delay: 145.611 ms

Loss rate: 0.37%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-01-02 19:40:31

End at: 2018-01-02 19:41:01

Below is generated by plot.py at 2018-01-02 22:28:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 241.18 Mbit/s

95th percentile per-packet one-way delay: 244.961 ms

Loss rate: 1.65%

-- Flow 1:

Average throughput: 176.03 Mbit/s

95th percentile per-packet one-way delay: 252.650 ms

Loss rate: 2.05%

-- Flow 2:

Average throughput: 59.05 Mbit/s

95th percentile per-packet one-way delay: 184.942 ms

Loss rate: 0.91%

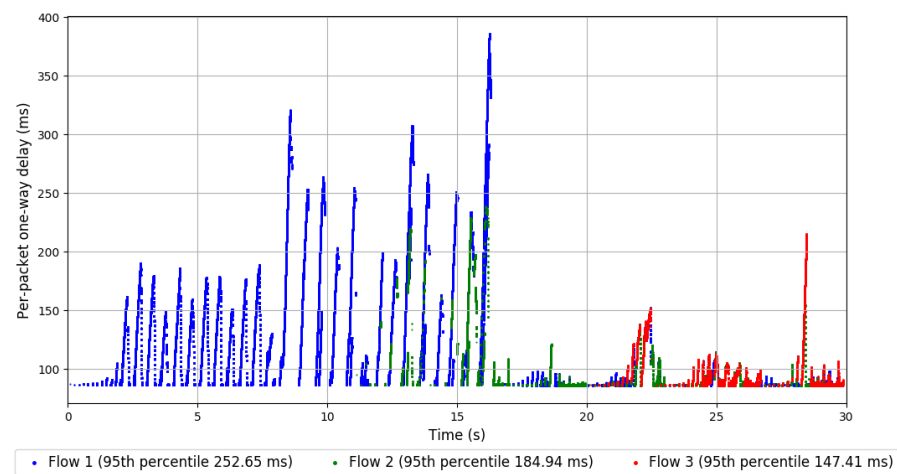
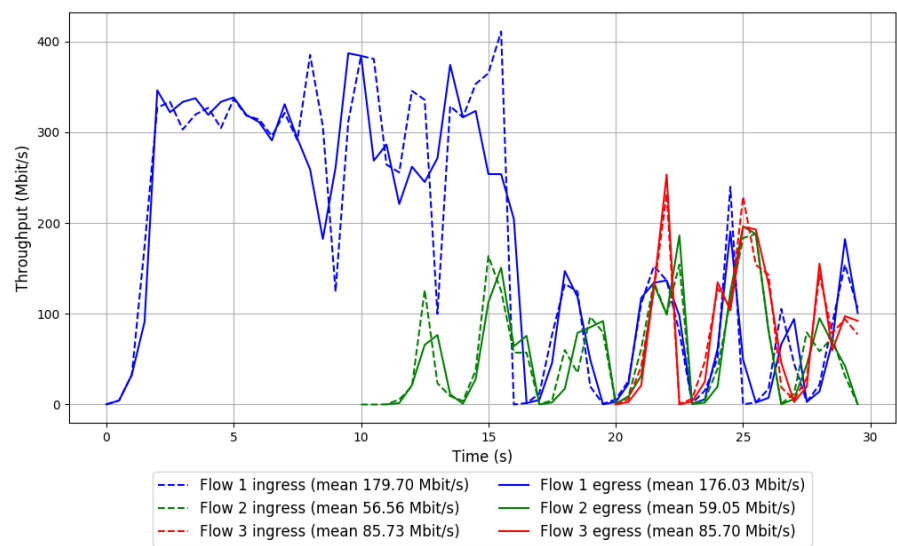
-- Flow 3:

Average throughput: 85.70 Mbit/s

95th percentile per-packet one-way delay: 147.414 ms

Loss rate: 0.06%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-01-02 19:55:07

End at: 2018-01-02 19:55:37

Below is generated by plot.py at 2018-01-02 22:29:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 269.69 Mbit/s

95th percentile per-packet one-way delay: 174.843 ms

Loss rate: 0.58%

-- Flow 1:

Average throughput: 192.17 Mbit/s

95th percentile per-packet one-way delay: 150.355 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 90.11 Mbit/s

95th percentile per-packet one-way delay: 169.303 ms

Loss rate: 2.12%

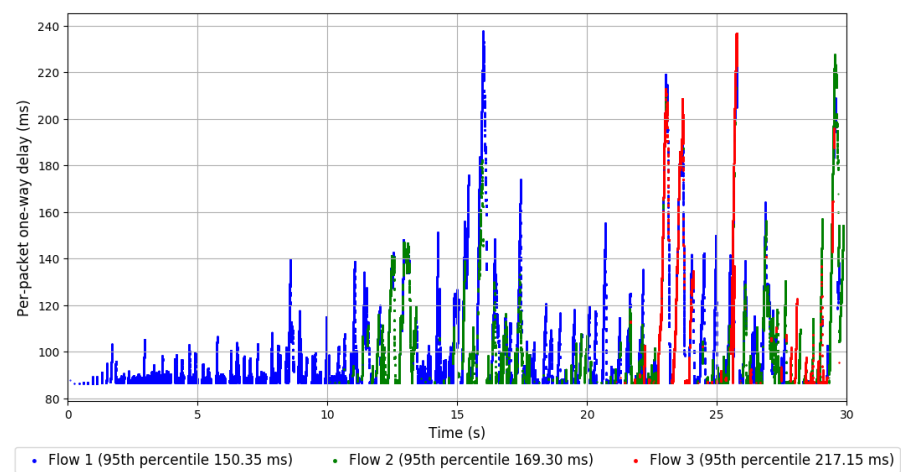
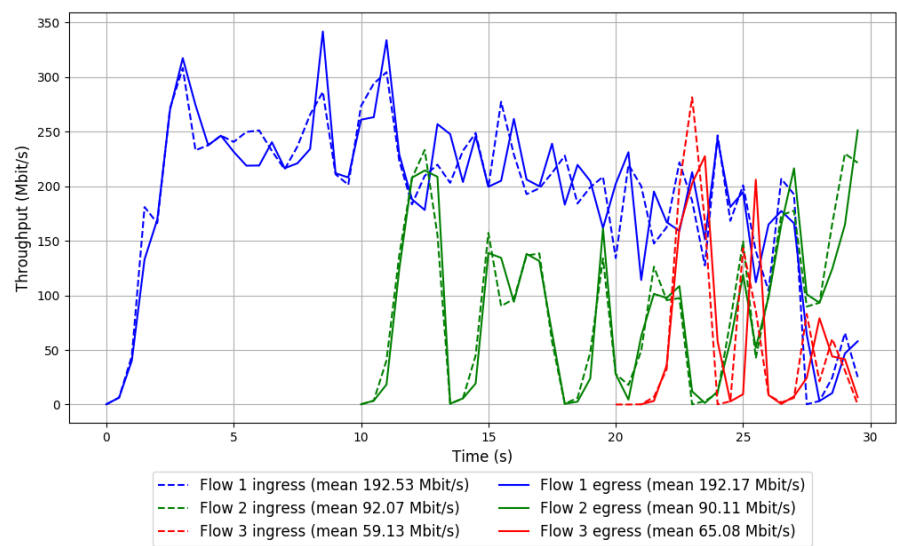
-- Flow 3:

Average throughput: 65.08 Mbit/s

95th percentile per-packet one-way delay: 217.147 ms

Loss rate: 1.22%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-01-02 20:09:20

End at: 2018-01-02 20:09:50

Below is generated by plot.py at 2018-01-02 22:29:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 267.47 Mbit/s

95th percentile per-packet one-way delay: 189.561 ms

Loss rate: 0.16%

-- Flow 1:

Average throughput: 189.58 Mbit/s

95th percentile per-packet one-way delay: 174.853 ms

Loss rate: 0.22%

-- Flow 2:

Average throughput: 87.30 Mbit/s

95th percentile per-packet one-way delay: 203.782 ms

Loss rate: 0.01%

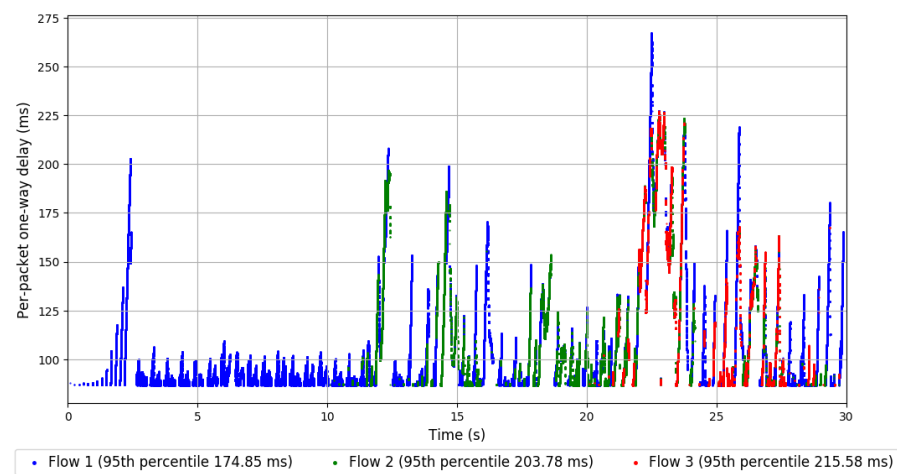
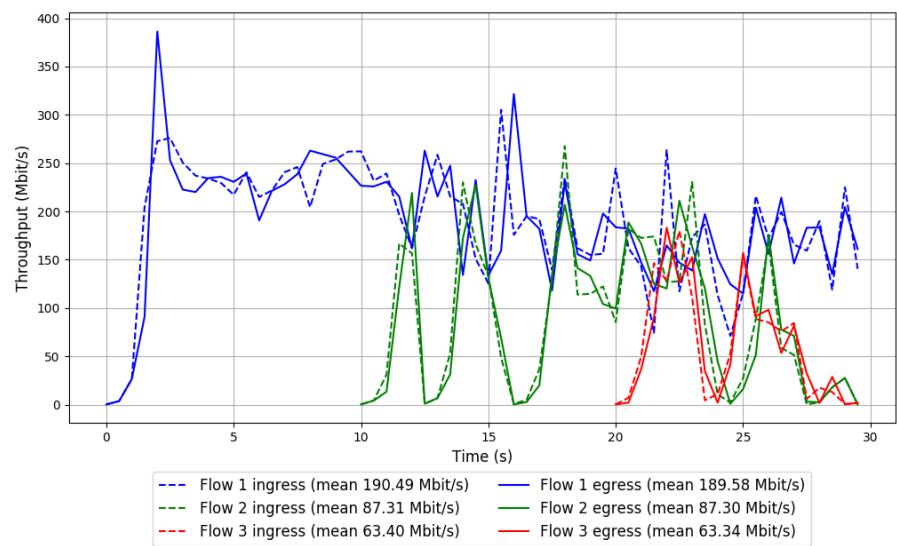
-- Flow 3:

Average throughput: 63.34 Mbit/s

95th percentile per-packet one-way delay: 215.580 ms

Loss rate: 0.05%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2018-01-02 17:56:33

End at: 2018-01-02 17:57:03

Below is generated by plot.py at 2018-01-02 22:29:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 125.74 Mbit/s

95th percentile per-packet one-way delay: 86.844 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 75.68 Mbit/s

95th percentile per-packet one-way delay: 86.674 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 62.77 Mbit/s

95th percentile per-packet one-way delay: 86.940 ms

Loss rate: 0.00%

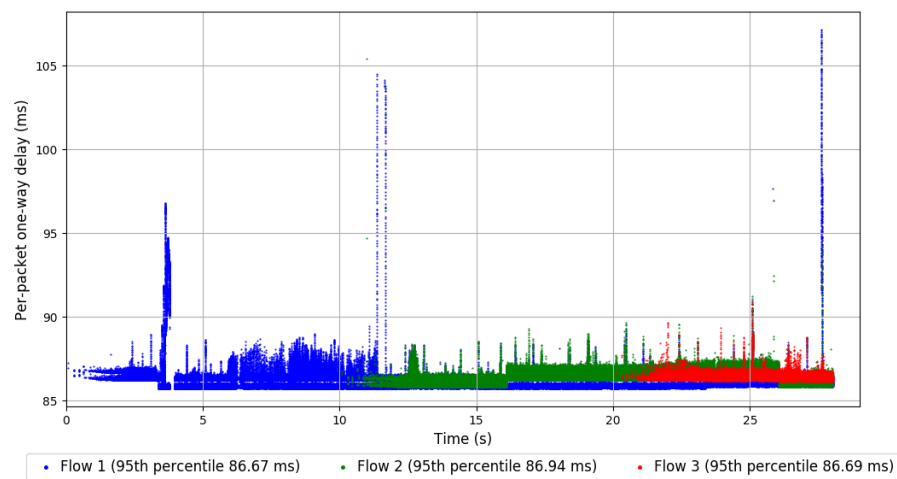
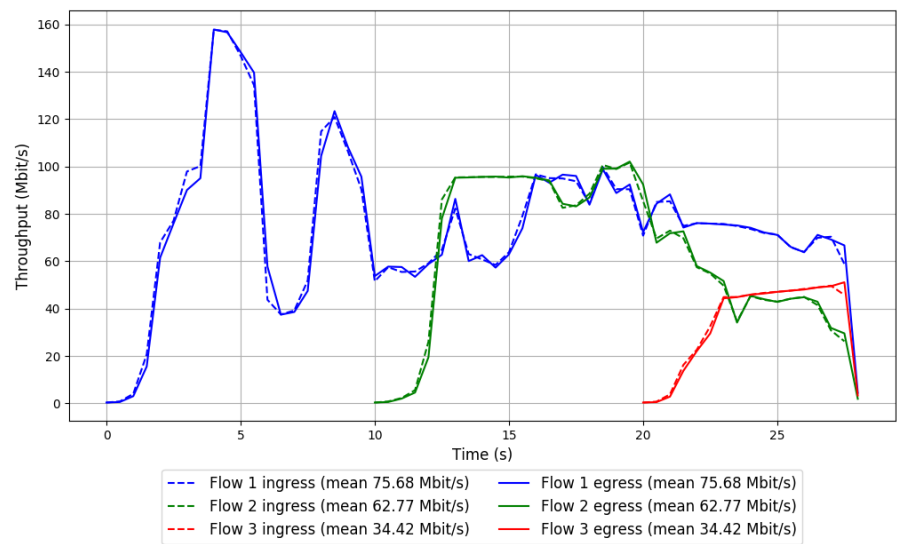
-- Flow 3:

Average throughput: 34.42 Mbit/s

95th percentile per-packet one-way delay: 86.694 ms

Loss rate: 0.00%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-01-02 18:11:26

End at: 2018-01-02 18:11:56

Below is generated by plot.py at 2018-01-02 22:29:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 117.74 Mbit/s

95th percentile per-packet one-way delay: 86.820 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 66.68 Mbit/s

95th percentile per-packet one-way delay: 86.402 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 63.08 Mbit/s

95th percentile per-packet one-way delay: 86.904 ms

Loss rate: 0.00%

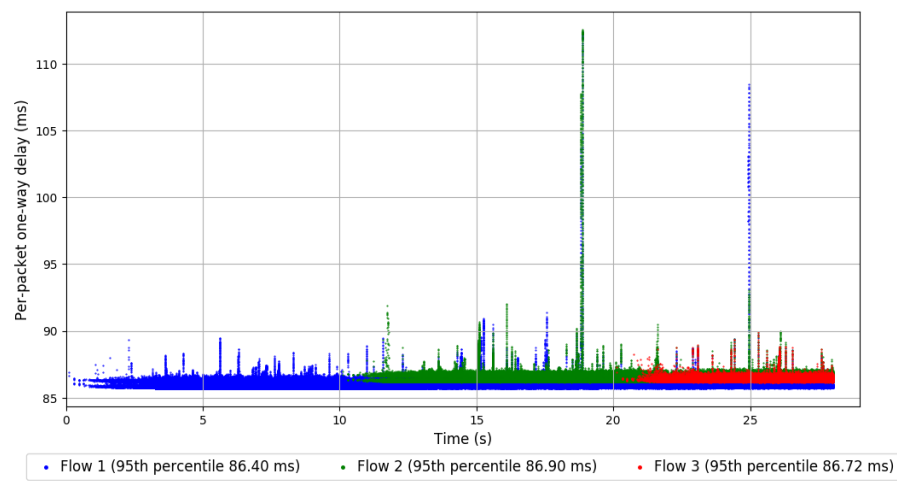
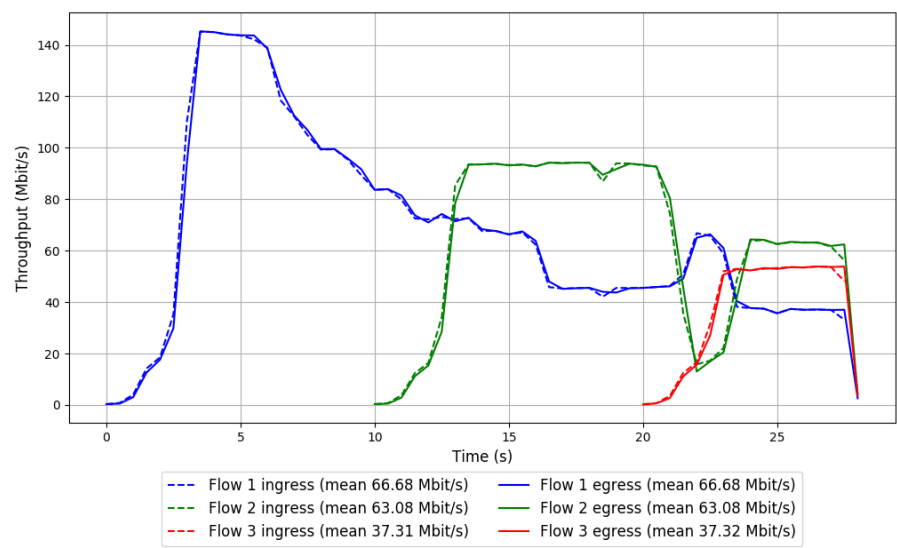
-- Flow 3:

Average throughput: 37.32 Mbit/s

95th percentile per-packet one-way delay: 86.718 ms

Loss rate: 0.00%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-01-02 18:26:14

End at: 2018-01-02 18:26:44

Below is generated by plot.py at 2018-01-02 22:29:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 130.58 Mbit/s

95th percentile per-packet one-way delay: 86.555 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 74.55 Mbit/s

95th percentile per-packet one-way delay: 86.447 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 66.96 Mbit/s

95th percentile per-packet one-way delay: 86.815 ms

Loss rate: 0.00%

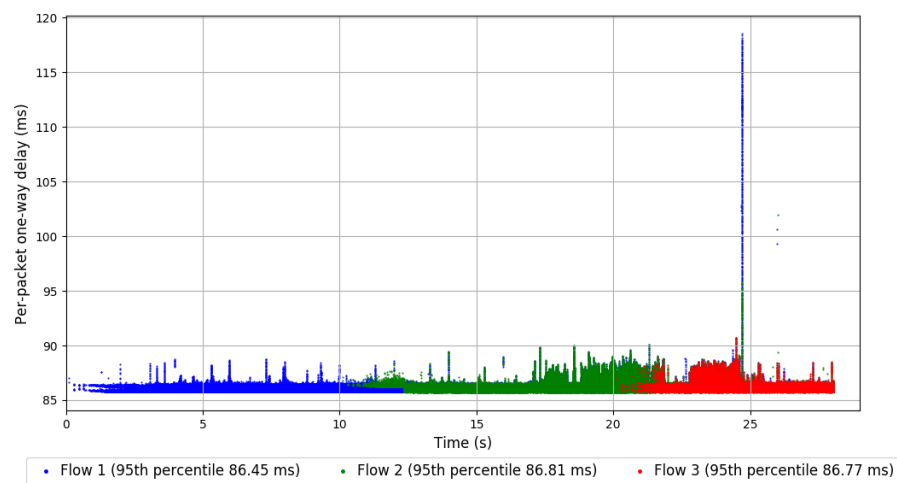
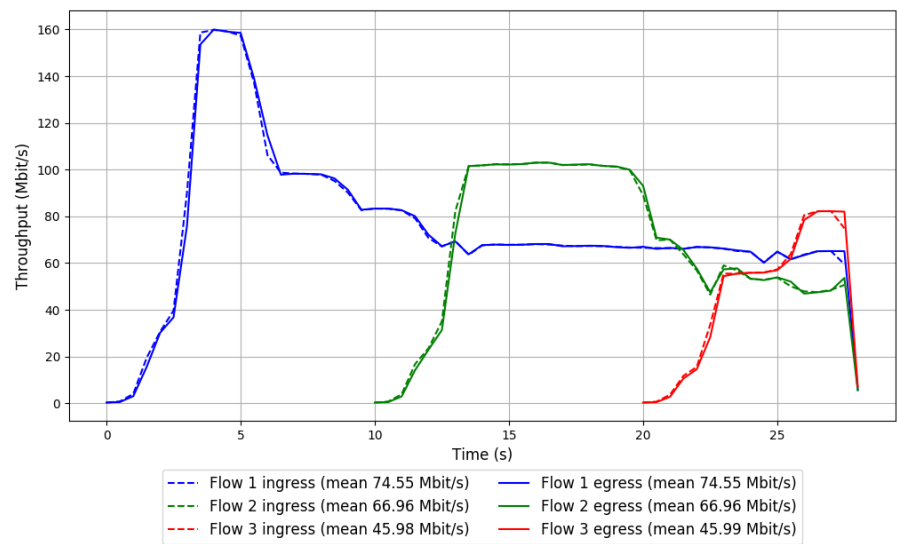
-- Flow 3:

Average throughput: 45.99 Mbit/s

95th percentile per-packet one-way delay: 86.765 ms

Loss rate: 0.00%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-01-02 18:41:09

End at: 2018-01-02 18:41:39

Below is generated by plot.py at 2018-01-02 22:30:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 115.28 Mbit/s

95th percentile per-packet one-way delay: 86.601 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 77.31 Mbit/s

95th percentile per-packet one-way delay: 86.384 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 44.78 Mbit/s

95th percentile per-packet one-way delay: 86.749 ms

Loss rate: 0.00%

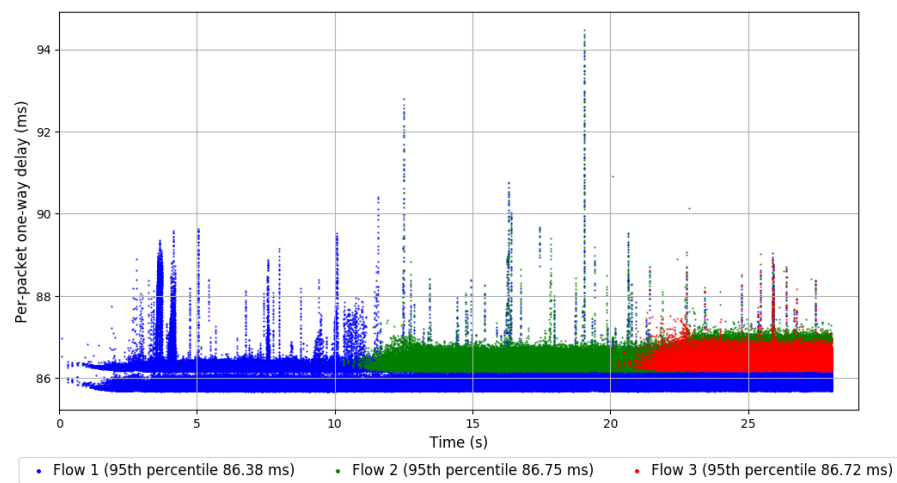
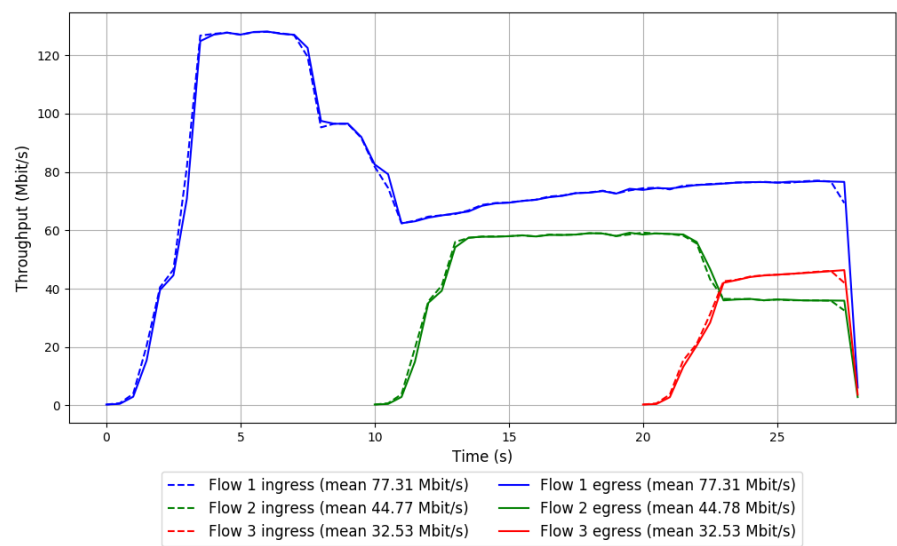
-- Flow 3:

Average throughput: 32.53 Mbit/s

95th percentile per-packet one-way delay: 86.721 ms

Loss rate: 0.00%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-01-02 18:55:36

End at: 2018-01-02 18:56:06

Below is generated by plot.py at 2018-01-02 22:30:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 127.64 Mbit/s

95th percentile per-packet one-way delay: 86.797 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 68.60 Mbit/s

95th percentile per-packet one-way delay: 86.720 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 61.62 Mbit/s

95th percentile per-packet one-way delay: 86.560 ms

Loss rate: 0.00%

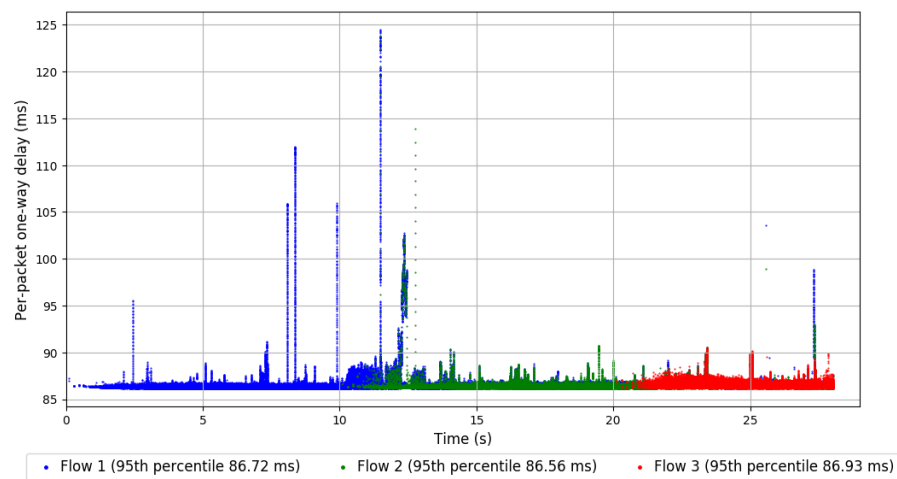
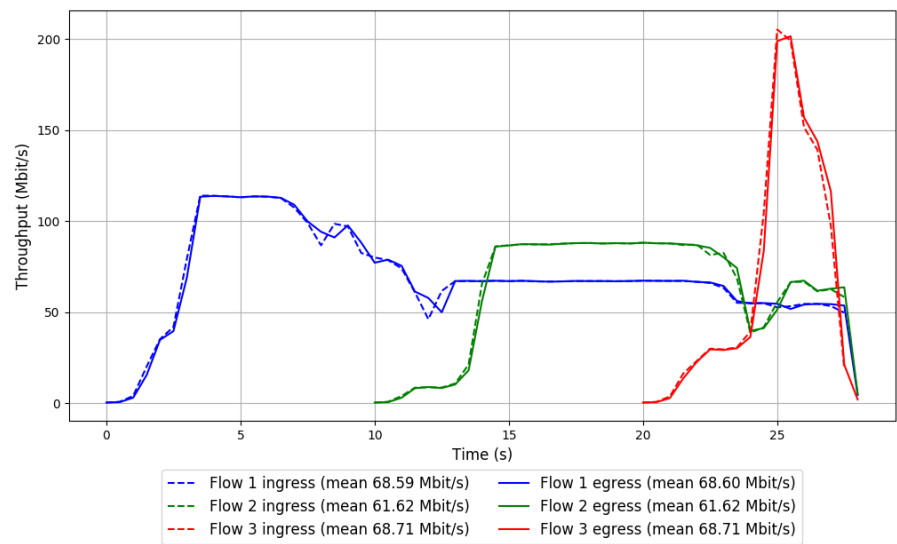
-- Flow 3:

Average throughput: 68.71 Mbit/s

95th percentile per-packet one-way delay: 86.931 ms

Loss rate: 0.00%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-01-02 19:09:59

End at: 2018-01-02 19:10:29

Below is generated by plot.py at 2018-01-02 22:31:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 108.78 Mbit/s

95th percentile per-packet one-way delay: 86.906 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 58.75 Mbit/s

95th percentile per-packet one-way delay: 86.935 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 56.67 Mbit/s

95th percentile per-packet one-way delay: 86.848 ms

Loss rate: 0.00%

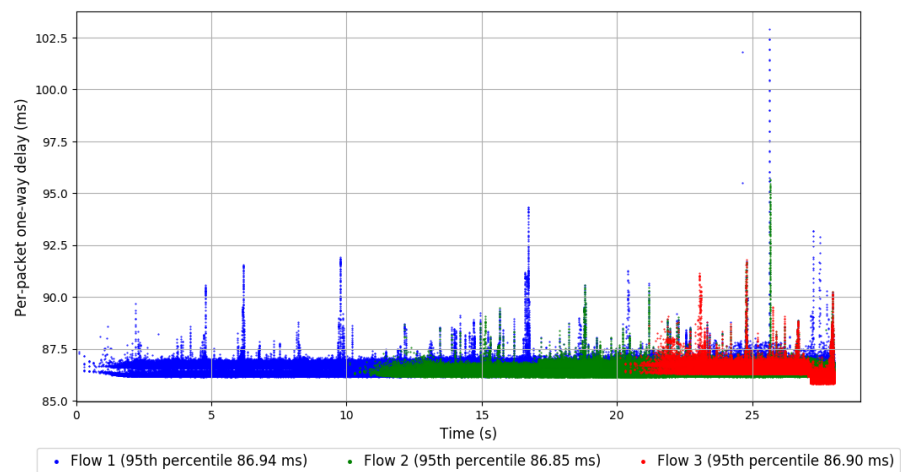
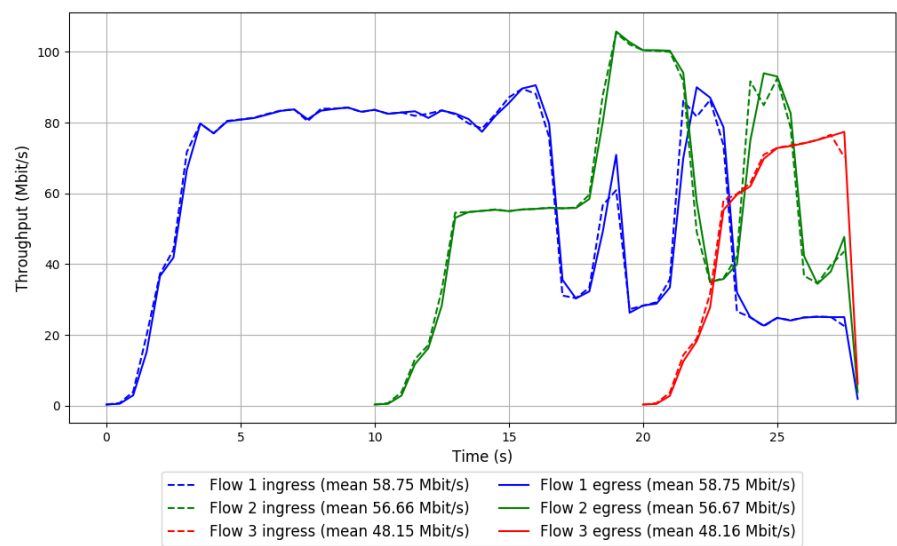
-- Flow 3:

Average throughput: 48.16 Mbit/s

95th percentile per-packet one-way delay: 86.903 ms

Loss rate: 0.00%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-01-02 19:24:13

End at: 2018-01-02 19:24:43

Below is generated by plot.py at 2018-01-02 22:32:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 126.55 Mbit/s

95th percentile per-packet one-way delay: 86.785 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 71.68 Mbit/s

95th percentile per-packet one-way delay: 86.726 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 58.08 Mbit/s

95th percentile per-packet one-way delay: 86.776 ms

Loss rate: 0.00%

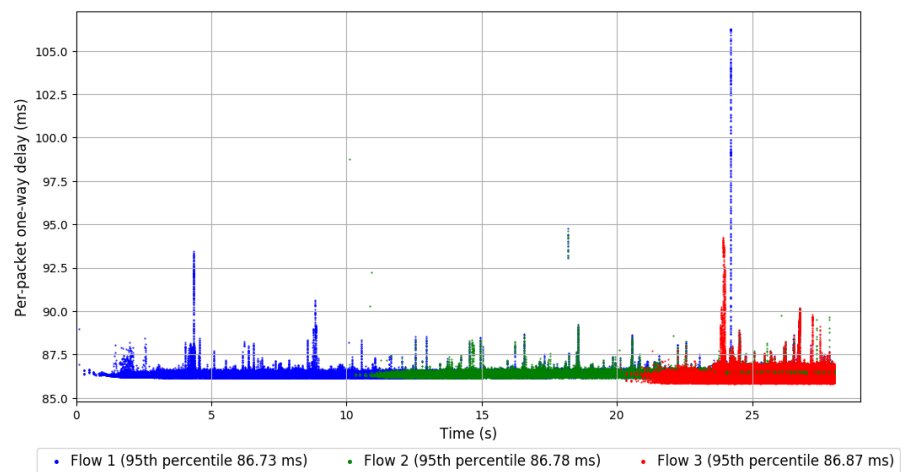
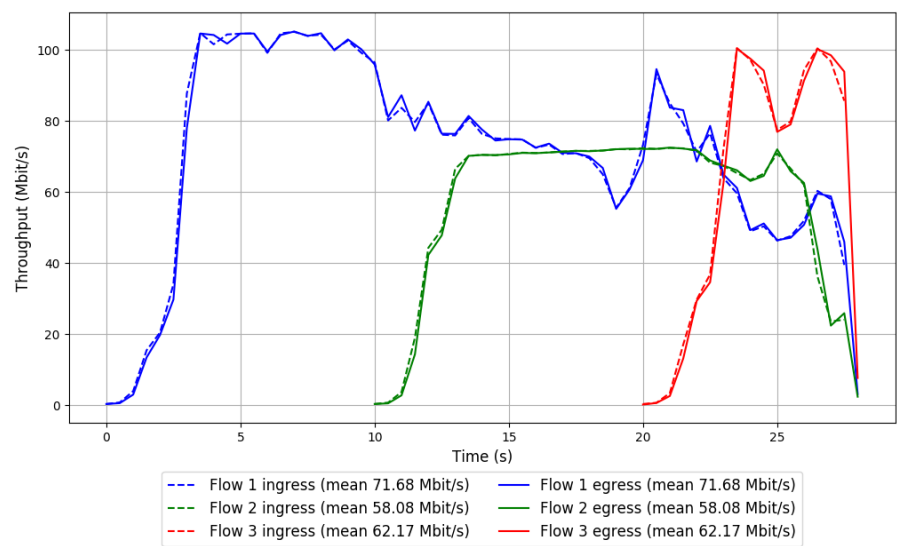
-- Flow 3:

Average throughput: 62.17 Mbit/s

95th percentile per-packet one-way delay: 86.866 ms

Loss rate: 0.00%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-01-02 19:38:39

End at: 2018-01-02 19:39:09

Below is generated by plot.py at 2018-01-02 22:32:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 129.25 Mbit/s

95th percentile per-packet one-way delay: 86.803 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 65.97 Mbit/s

95th percentile per-packet one-way delay: 86.796 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 68.29 Mbit/s

95th percentile per-packet one-way delay: 86.801 ms

Loss rate: 0.00%

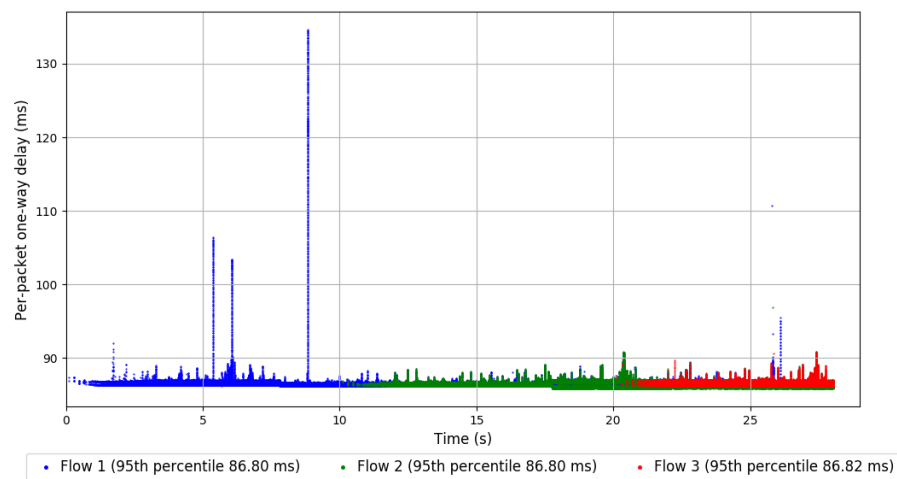
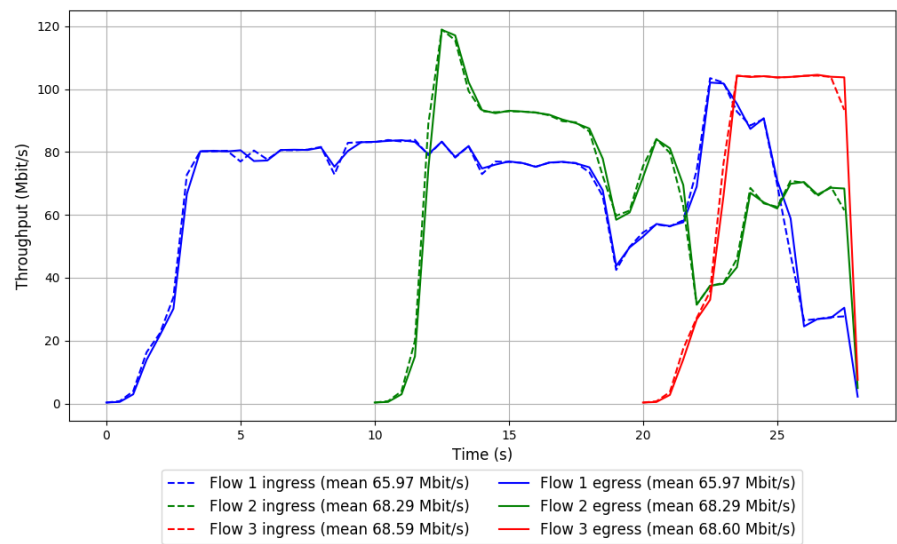
-- Flow 3:

Average throughput: 68.60 Mbit/s

95th percentile per-packet one-way delay: 86.820 ms

Loss rate: 0.00%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-01-02 19:53:11

End at: 2018-01-02 19:53:42

Below is generated by plot.py at 2018-01-02 22:33:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 130.52 Mbit/s

95th percentile per-packet one-way delay: 86.850 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 68.02 Mbit/s

95th percentile per-packet one-way delay: 86.857 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 69.24 Mbit/s

95th percentile per-packet one-way delay: 86.853 ms

Loss rate: 0.00%

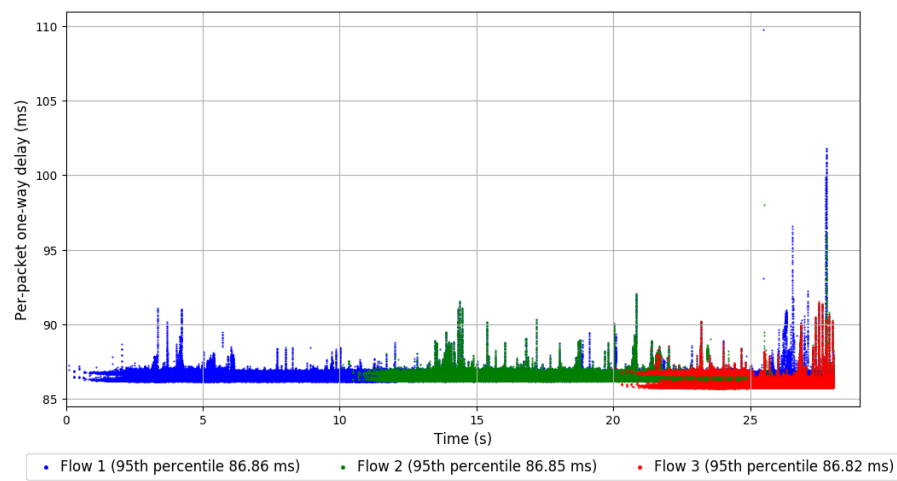
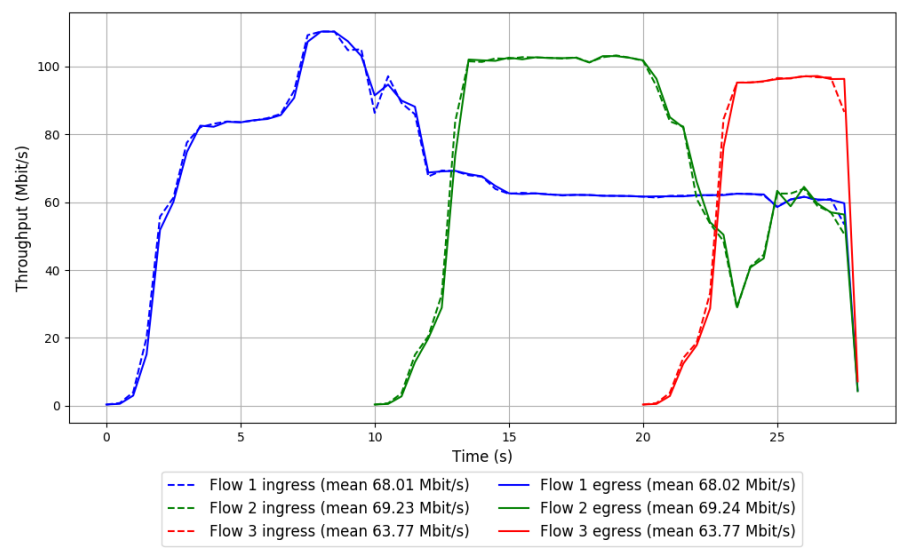
-- Flow 3:

Average throughput: 63.77 Mbit/s

95th percentile per-packet one-way delay: 86.816 ms

Loss rate: 0.00%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-01-02 20:07:25

End at: 2018-01-02 20:07:55

Below is generated by plot.py at 2018-01-02 22:33:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 127.81 Mbit/s

95th percentile per-packet one-way delay: 86.924 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 64.33 Mbit/s

95th percentile per-packet one-way delay: 86.829 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 67.73 Mbit/s

95th percentile per-packet one-way delay: 87.040 ms

Loss rate: 0.00%

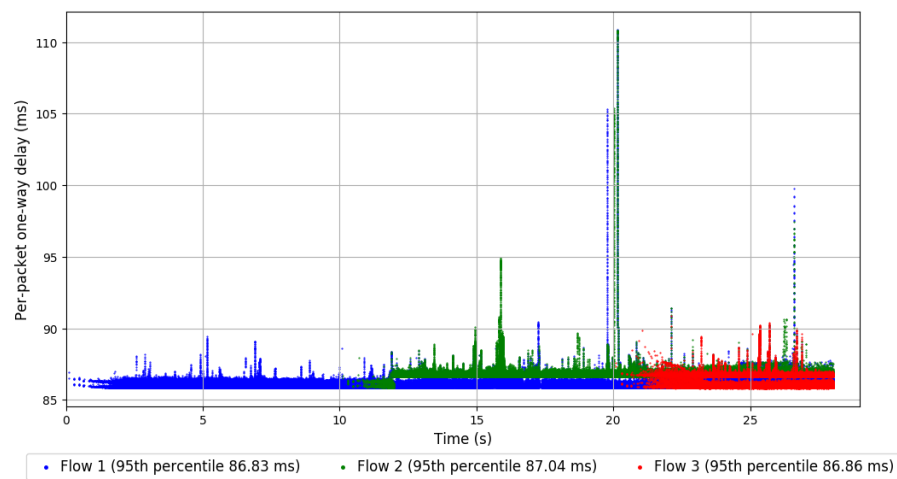
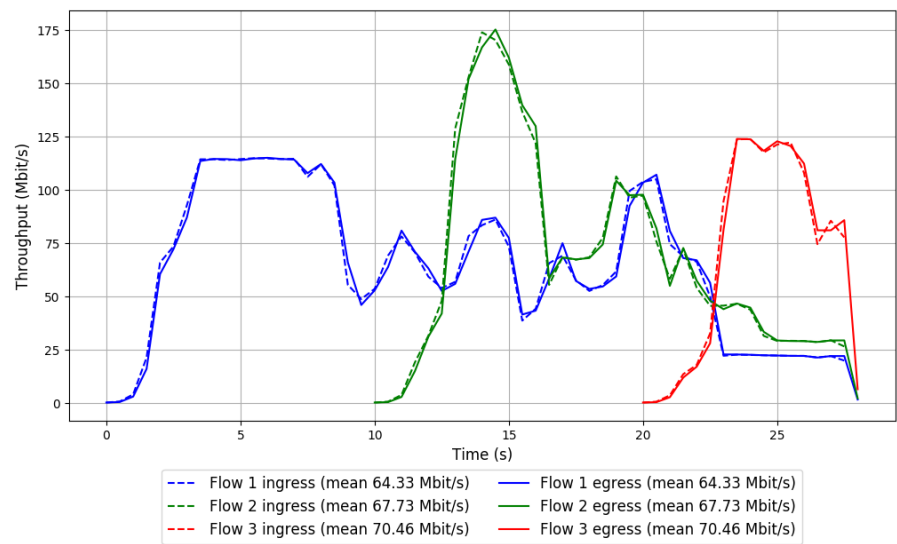
-- Flow 3:

Average throughput: 70.46 Mbit/s

95th percentile per-packet one-way delay: 86.856 ms

Loss rate: 0.00%

Run 10: Report of Copa — Data Link

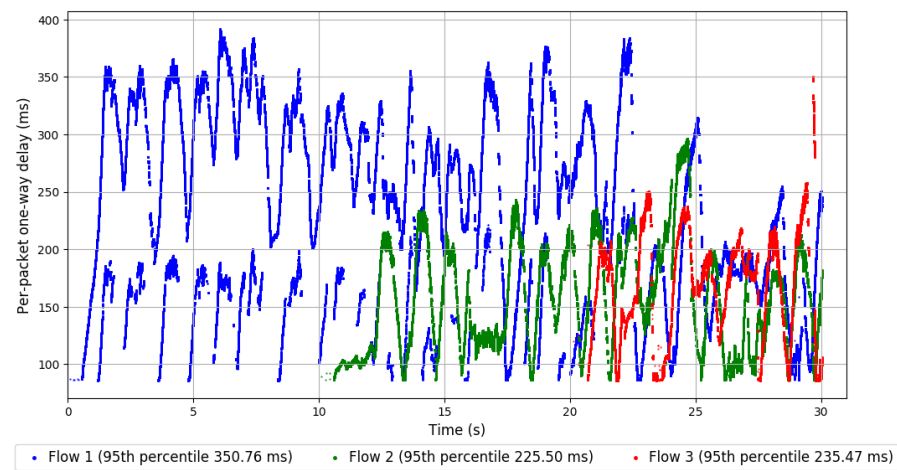
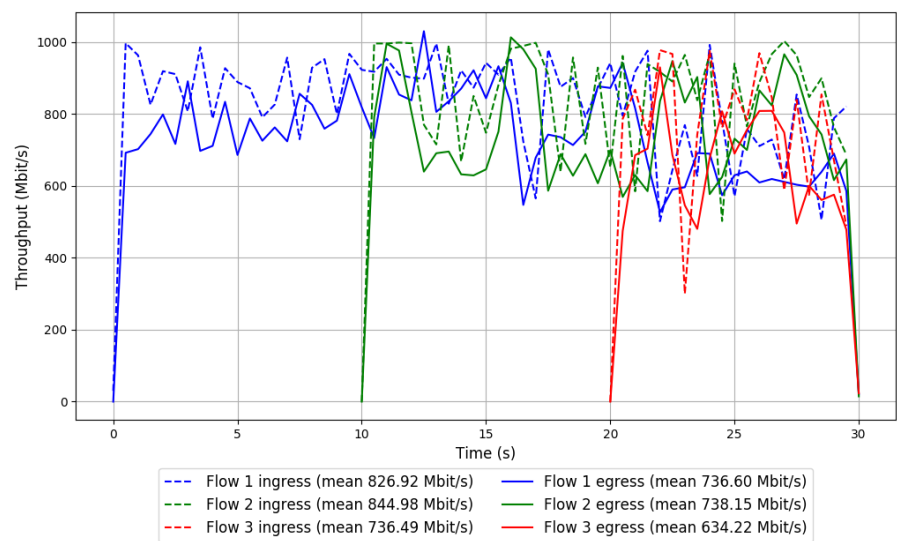


```
Run 1: Statistics of FillP

Start at: 2018-01-02 17:54:40
End at: 2018-01-02 17:55:10

# Below is generated by plot.py at 2018-01-02 22:56:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1437.12 Mbit/s
95th percentile per-packet one-way delay: 338.808 ms
Loss rate: 12.00%
-- Flow 1:
Average throughput: 736.60 Mbit/s
95th percentile per-packet one-way delay: 350.757 ms
Loss rate: 10.92%
-- Flow 2:
Average throughput: 738.15 Mbit/s
95th percentile per-packet one-way delay: 225.496 ms
Loss rate: 12.65%
-- Flow 3:
Average throughput: 634.22 Mbit/s
95th percentile per-packet one-way delay: 235.469 ms
Loss rate: 14.16%
```


Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-01-02 18:09:28

End at: 2018-01-02 18:09:58

Below is generated by plot.py at 2018-01-02 22:58:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 1542.75 Mbit/s

95th percentile per-packet one-way delay: 318.496 ms

Loss rate: 10.27%

-- Flow 1:

Average throughput: 840.06 Mbit/s

95th percentile per-packet one-way delay: 307.877 ms

Loss rate: 8.13%

-- Flow 2:

Average throughput: 787.87 Mbit/s

95th percentile per-packet one-way delay: 326.275 ms

Loss rate: 9.57%

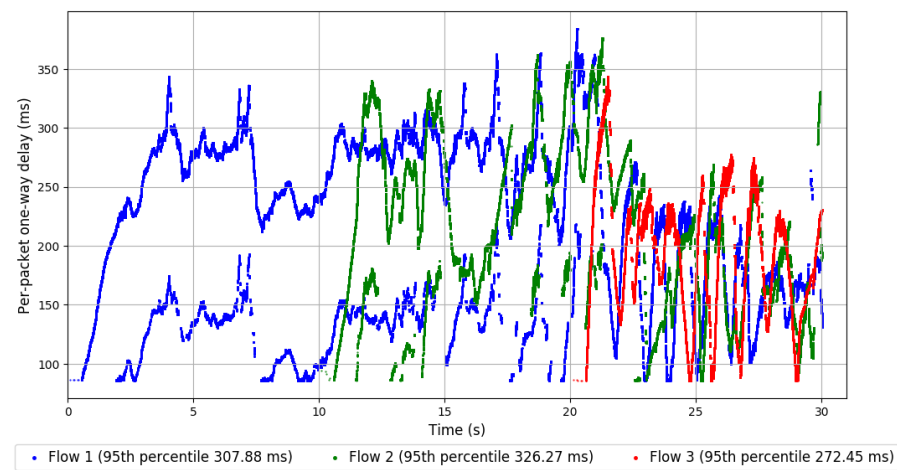
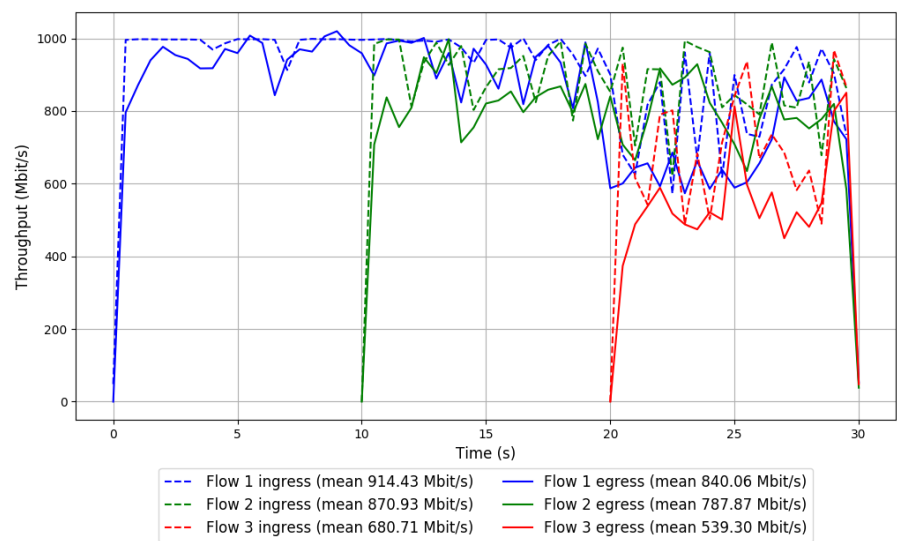
-- Flow 3:

Average throughput: 539.30 Mbit/s

95th percentile per-packet one-way delay: 272.453 ms

Loss rate: 20.77%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-01-02 18:24:26

End at: 2018-01-02 18:24:56

Below is generated by plot.py at 2018-01-02 22:58:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 1386.51 Mbit/s

95th percentile per-packet one-way delay: 318.718 ms

Loss rate: 6.67%

-- Flow 1:

Average throughput: 858.38 Mbit/s

95th percentile per-packet one-way delay: 304.630 ms

Loss rate: 4.02%

-- Flow 2:

Average throughput: 442.90 Mbit/s

95th percentile per-packet one-way delay: 302.597 ms

Loss rate: 8.17%

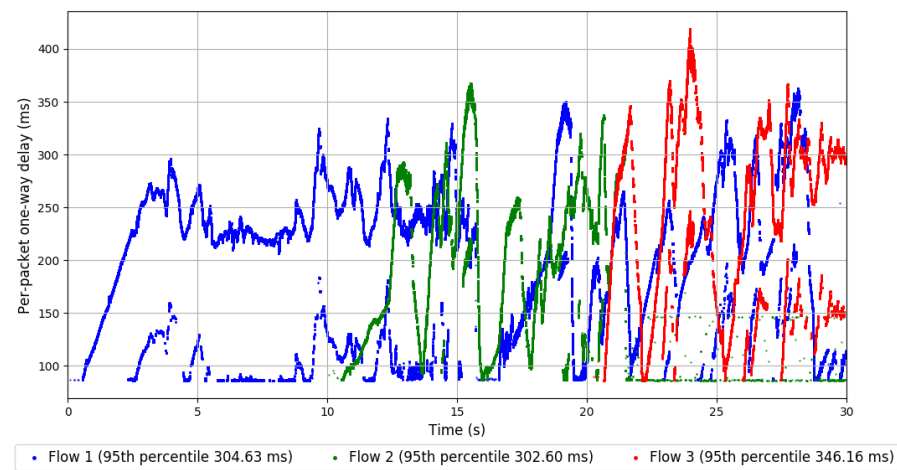
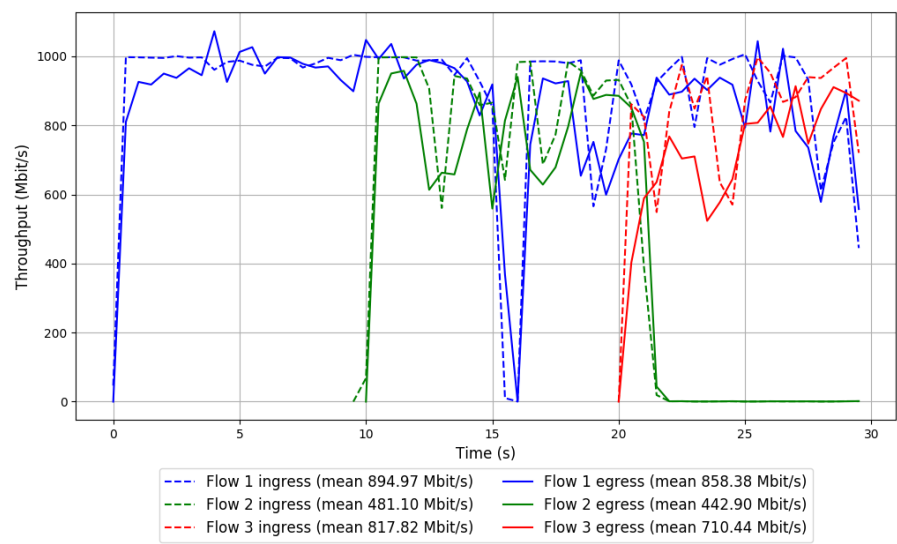
-- Flow 3:

Average throughput: 710.44 Mbit/s

95th percentile per-packet one-way delay: 346.158 ms

Loss rate: 13.63%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-01-02 18:39:16

End at: 2018-01-02 18:39:46

Below is generated by plot.py at 2018-01-02 22:58:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 1448.77 Mbit/s

95th percentile per-packet one-way delay: 324.734 ms

Loss rate: 7.04%

-- Flow 1:

Average throughput: 851.47 Mbit/s

95th percentile per-packet one-way delay: 291.631 ms

Loss rate: 5.27%

-- Flow 2:

Average throughput: 568.22 Mbit/s

95th percentile per-packet one-way delay: 338.698 ms

Loss rate: 8.24%

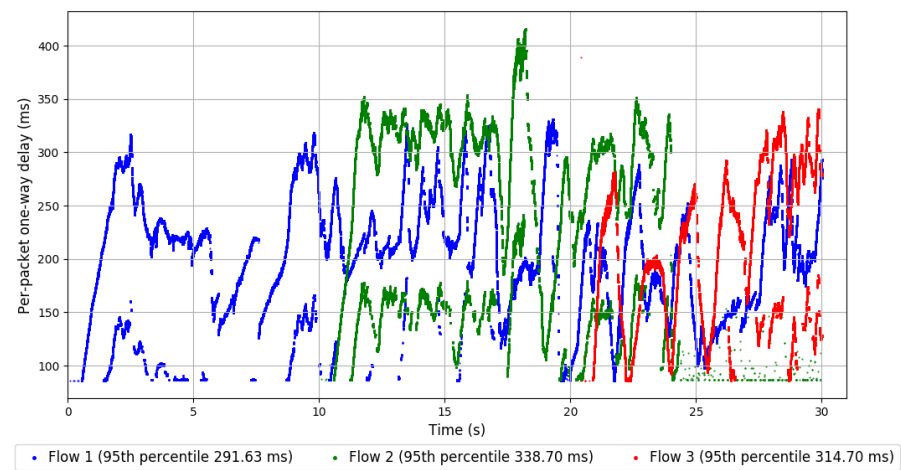
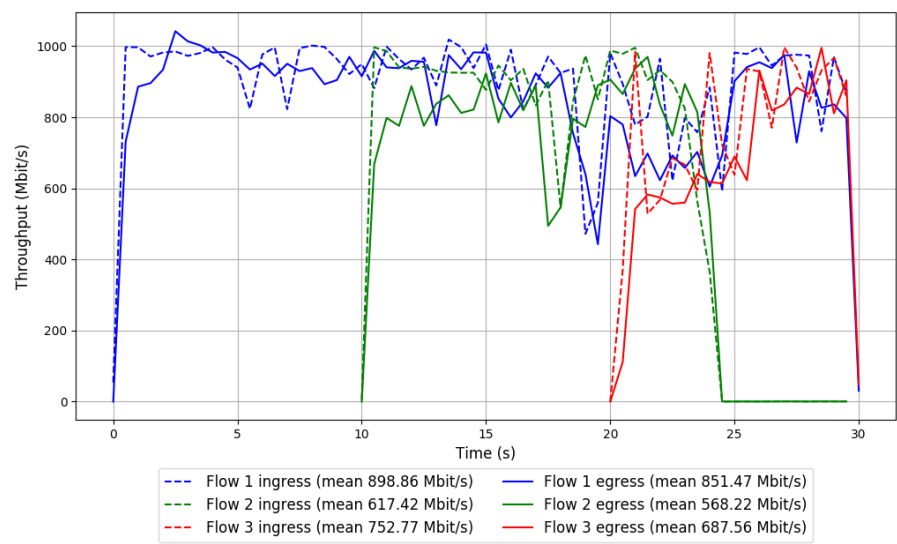
-- Flow 3:

Average throughput: 687.56 Mbit/s

95th percentile per-packet one-way delay: 314.698 ms

Loss rate: 11.45%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-01-02 18:54:07

End at: 2018-01-02 18:54:37

Below is generated by plot.py at 2018-01-02 22:58:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 892.80 Mbit/s

95th percentile per-packet one-way delay: 312.088 ms

Loss rate: 6.73%

-- Flow 1:

Average throughput: 102.47 Mbit/s

95th percentile per-packet one-way delay: 309.274 ms

Loss rate: 1.88%

-- Flow 2:

Average throughput: 800.73 Mbit/s

95th percentile per-packet one-way delay: 317.029 ms

Loss rate: 10.12%

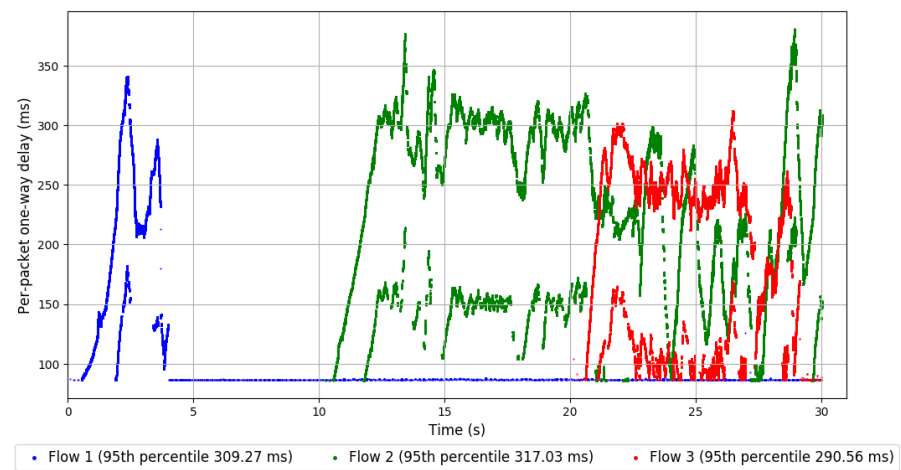
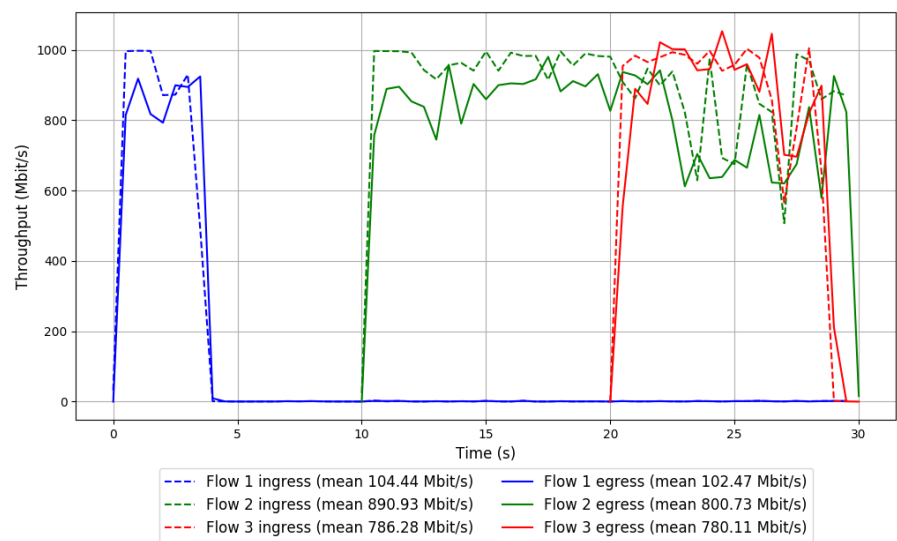
-- Flow 3:

Average throughput: 780.11 Mbit/s

95th percentile per-packet one-way delay: 290.562 ms

Loss rate: 0.94%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-01-02 19:08:35

End at: 2018-01-02 19:09:05

Below is generated by plot.py at 2018-01-02 22:58:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 788.07 Mbit/s

95th percentile per-packet one-way delay: 320.494 ms

Loss rate: 7.68%

-- Flow 1:

Average throughput: 124.16 Mbit/s

95th percentile per-packet one-way delay: 309.025 ms

Loss rate: 0.43%

-- Flow 2:

Average throughput: 765.84 Mbit/s

95th percentile per-packet one-way delay: 318.366 ms

Loss rate: 9.21%

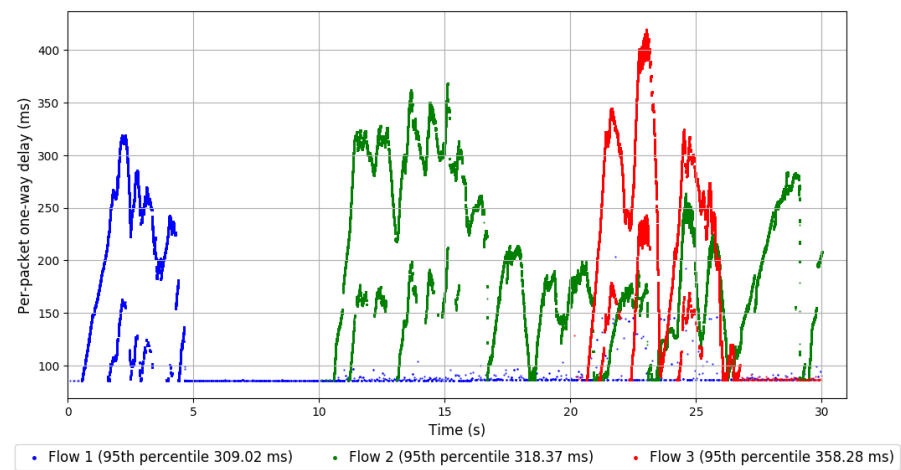
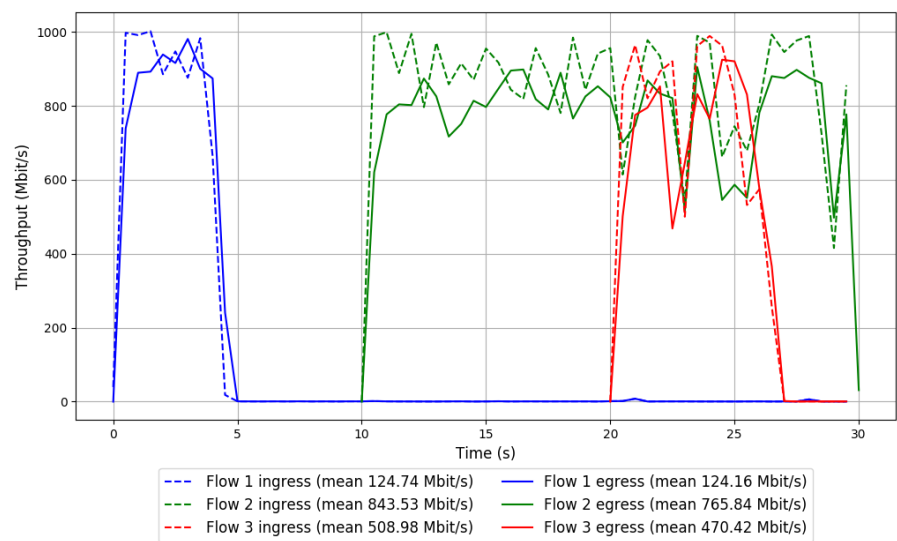
-- Flow 3:

Average throughput: 470.42 Mbit/s

95th percentile per-packet one-way delay: 358.276 ms

Loss rate: 7.97%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-01-02 19:22:48

End at: 2018-01-02 19:23:18

Below is generated by plot.py at 2018-01-02 22:58:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 802.26 Mbit/s

95th percentile per-packet one-way delay: 307.910 ms

Loss rate: 2.16%

-- Flow 1:

Average throughput: 180.23 Mbit/s

95th percentile per-packet one-way delay: 287.500 ms

Loss rate: 0.36%

-- Flow 2:

Average throughput: 499.63 Mbit/s

95th percentile per-packet one-way delay: 310.728 ms

Loss rate: 2.18%

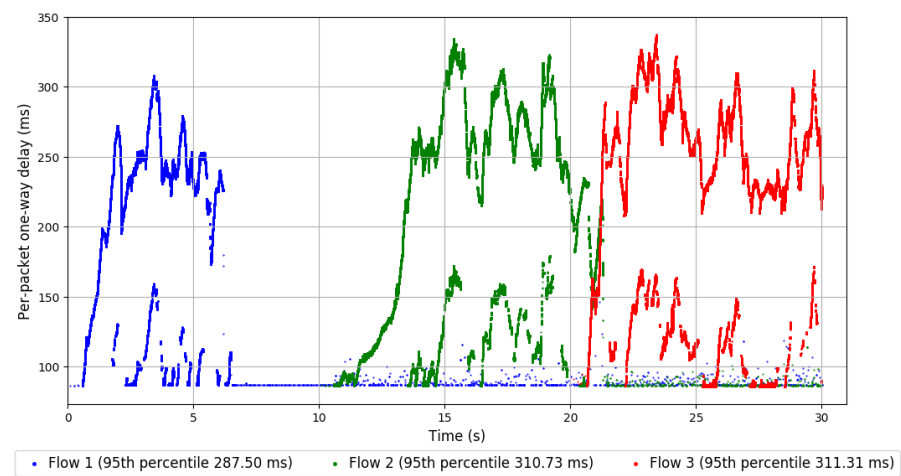
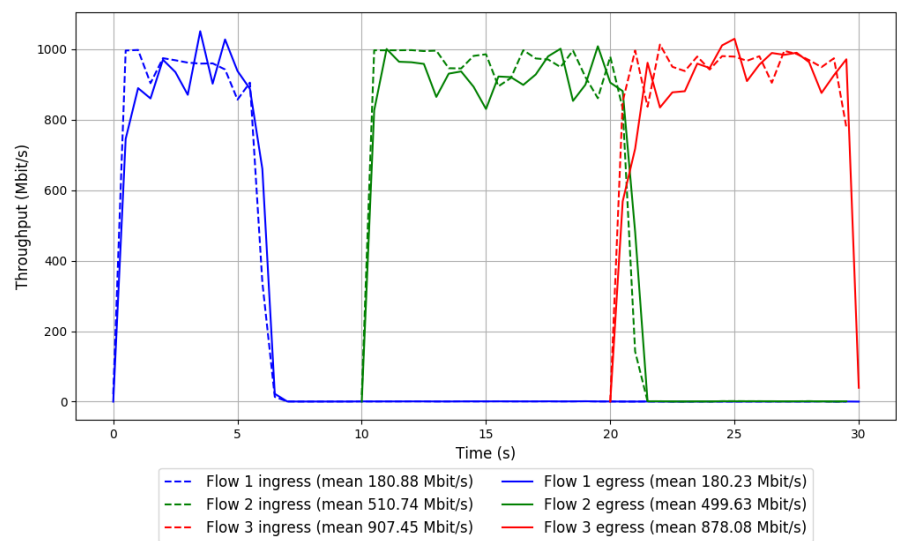
-- Flow 3:

Average throughput: 878.08 Mbit/s

95th percentile per-packet one-way delay: 311.312 ms

Loss rate: 3.22%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-01-02 19:37:12

End at: 2018-01-02 19:37:42

Below is generated by plot.py at 2018-01-02 22:58:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 878.55 Mbit/s

95th percentile per-packet one-way delay: 298.111 ms

Loss rate: 1.82%

-- Flow 1:

Average throughput: 123.38 Mbit/s

95th percentile per-packet one-way delay: 310.618 ms

Loss rate: 1.87%

-- Flow 2:

Average throughput: 865.79 Mbit/s

95th percentile per-packet one-way delay: 297.227 ms

Loss rate: 2.16%

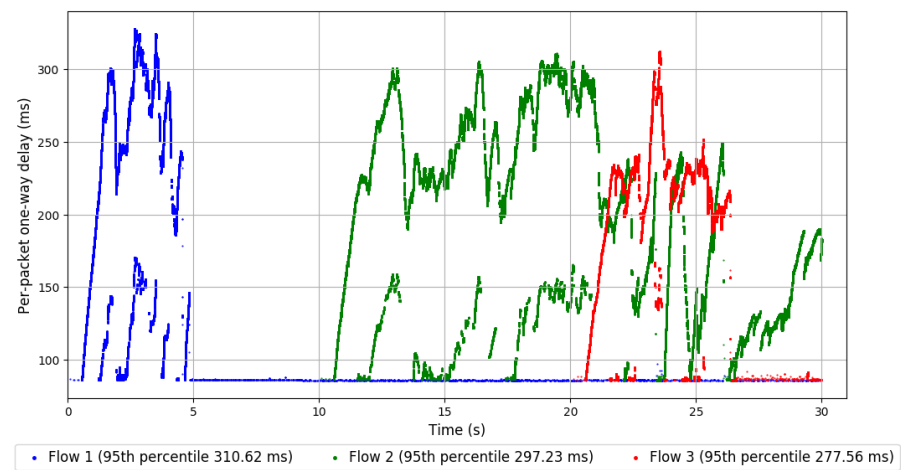
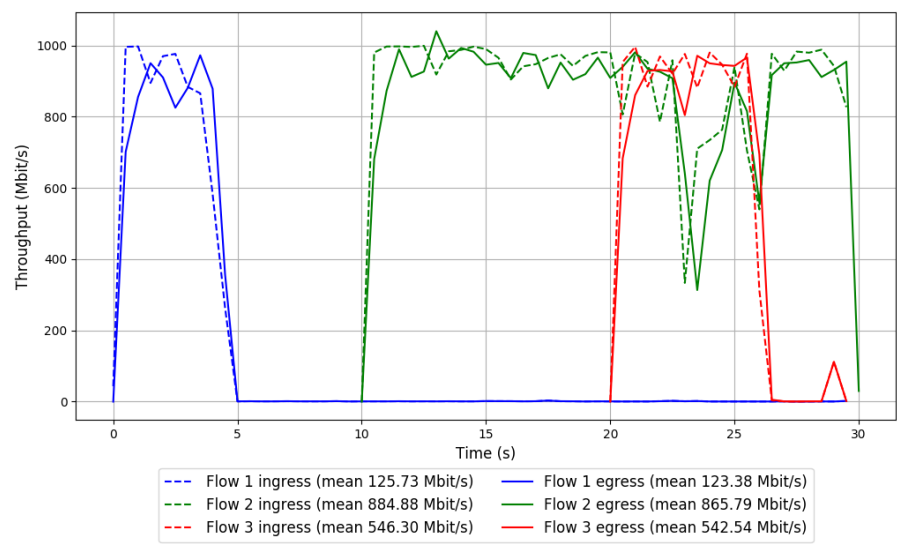
-- Flow 3:

Average throughput: 542.54 Mbit/s

95th percentile per-packet one-way delay: 277.561 ms

Loss rate: 0.69%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-01-02 19:51:30

End at: 2018-01-02 19:52:00

Below is generated by plot.py at 2018-01-02 23:04:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 1265.09 Mbit/s

95th percentile per-packet one-way delay: 281.761 ms

Loss rate: 2.60%

-- Flow 1:

Average throughput: 777.63 Mbit/s

95th percentile per-packet one-way delay: 256.248 ms

Loss rate: 2.52%

-- Flow 2:

Average throughput: 510.98 Mbit/s

95th percentile per-packet one-way delay: 295.505 ms

Loss rate: 3.88%

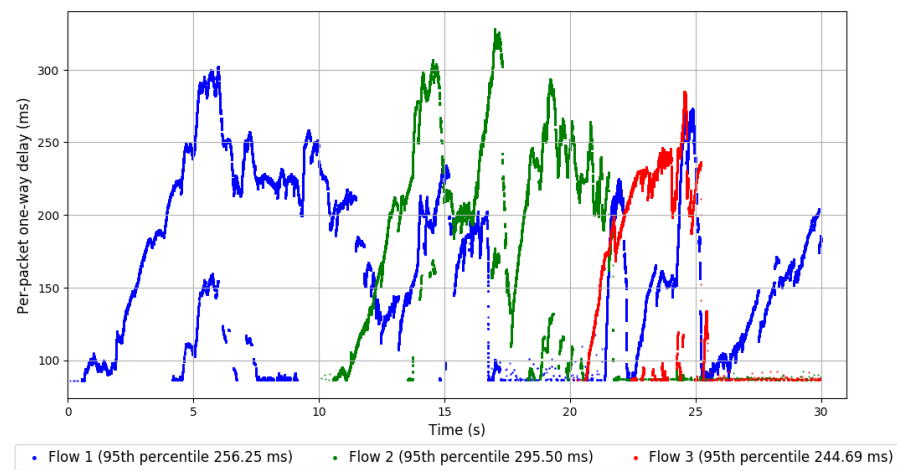
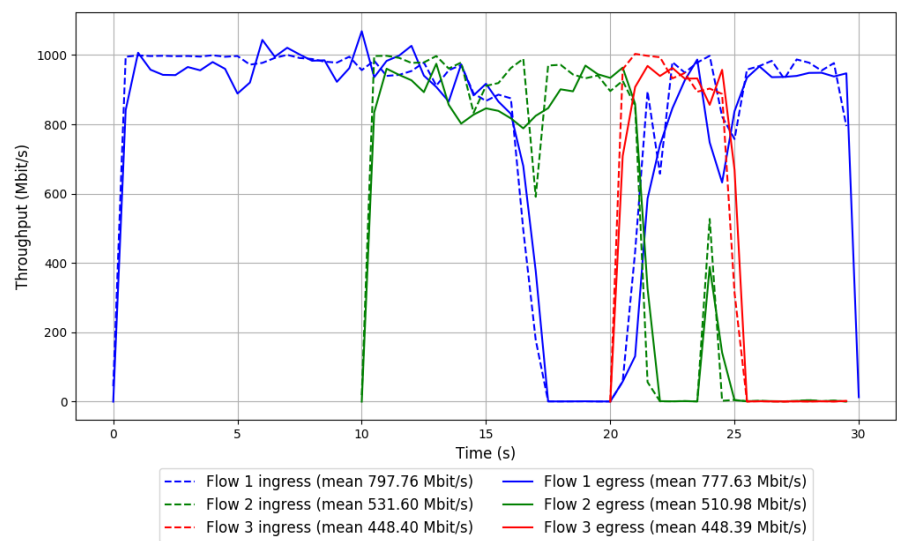
-- Flow 3:

Average throughput: 448.39 Mbit/s

95th percentile per-packet one-way delay: 244.693 ms

Loss rate: 0.00%

Run 9: Report of FillP — Data Link

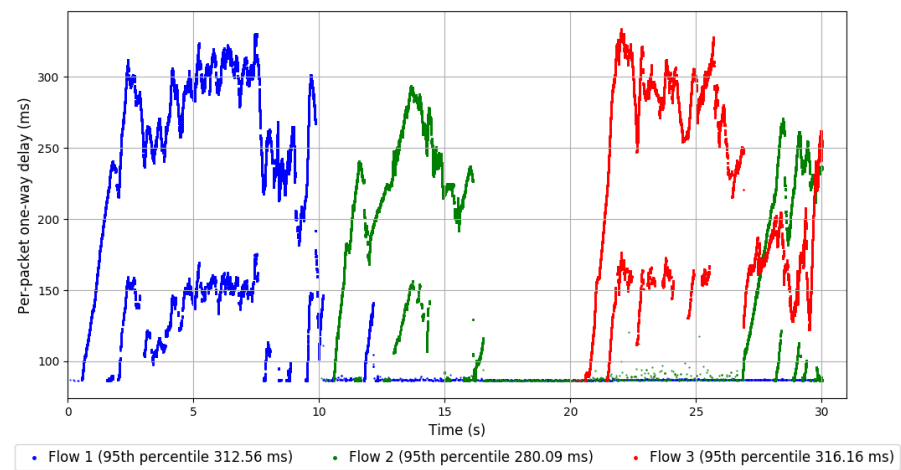
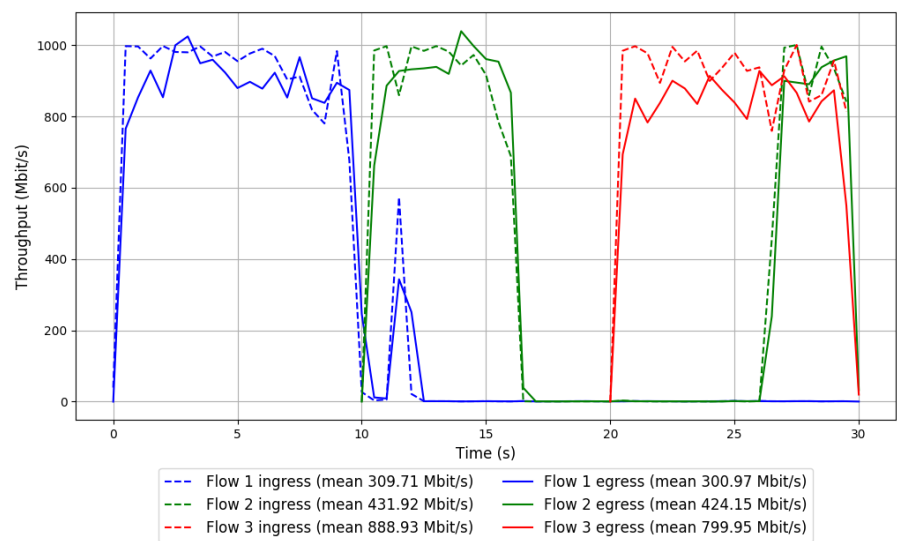


```
Run 10: Statistics of FillP

Start at: 2018-01-02 20:05:59
End at: 2018-01-02 20:06:29

# Below is generated by plot.py at 2018-01-02 23:04:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 848.23 Mbit/s
95th percentile per-packet one-way delay: 309.724 ms
Loss rate: 4.87%
-- Flow 1:
Average throughput: 300.97 Mbit/s
95th percentile per-packet one-way delay: 312.555 ms
Loss rate: 2.82%
-- Flow 2:
Average throughput: 424.15 Mbit/s
95th percentile per-packet one-way delay: 280.090 ms
Loss rate: 1.80%
-- Flow 3:
Average throughput: 799.95 Mbit/s
95th percentile per-packet one-way delay: 316.164 ms
Loss rate: 10.00%
```

Run 10: Report of FillP — Data Link

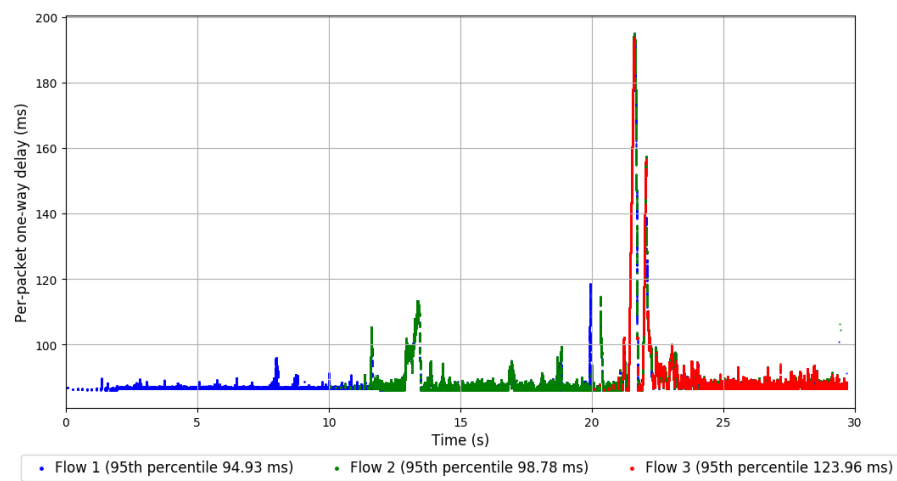
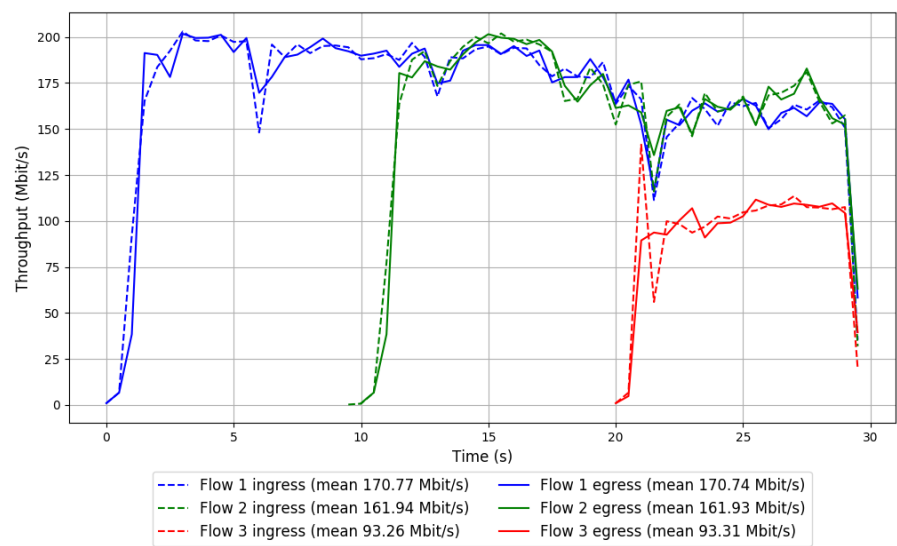


```
Run 1: Statistics of Indigo

Start at: 2018-01-02 17:59:26
End at: 2018-01-02 17:59:56

# Below is generated by plot.py at 2018-01-02 23:04:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 308.17 Mbit/s
95th percentile per-packet one-way delay: 97.541 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 170.74 Mbit/s
95th percentile per-packet one-way delay: 94.929 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 161.93 Mbit/s
95th percentile per-packet one-way delay: 98.784 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 93.31 Mbit/s
95th percentile per-packet one-way delay: 123.956 ms
Loss rate: 0.01%
```

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2018-01-02 18:14:22

End at: 2018-01-02 18:14:52

Below is generated by plot.py at 2018-01-02 23:04:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 298.62 Mbit/s

95th percentile per-packet one-way delay: 101.490 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 171.03 Mbit/s

95th percentile per-packet one-way delay: 97.455 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 150.55 Mbit/s

95th percentile per-packet one-way delay: 103.452 ms

Loss rate: 0.00%

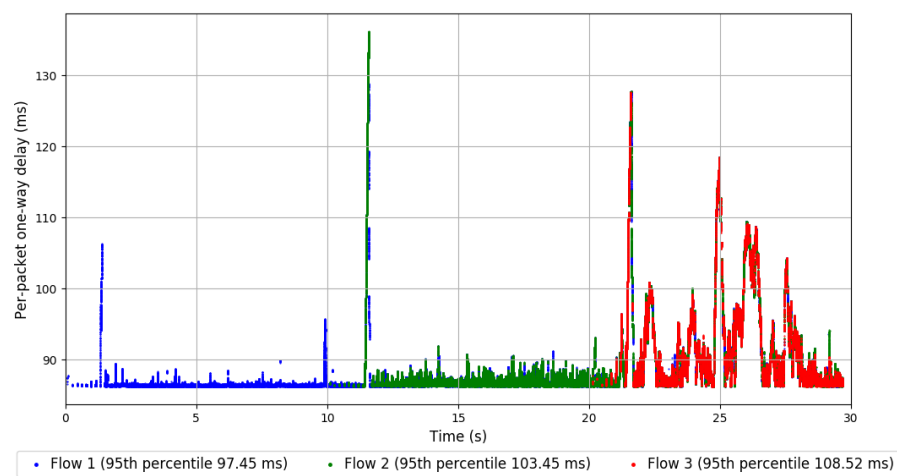
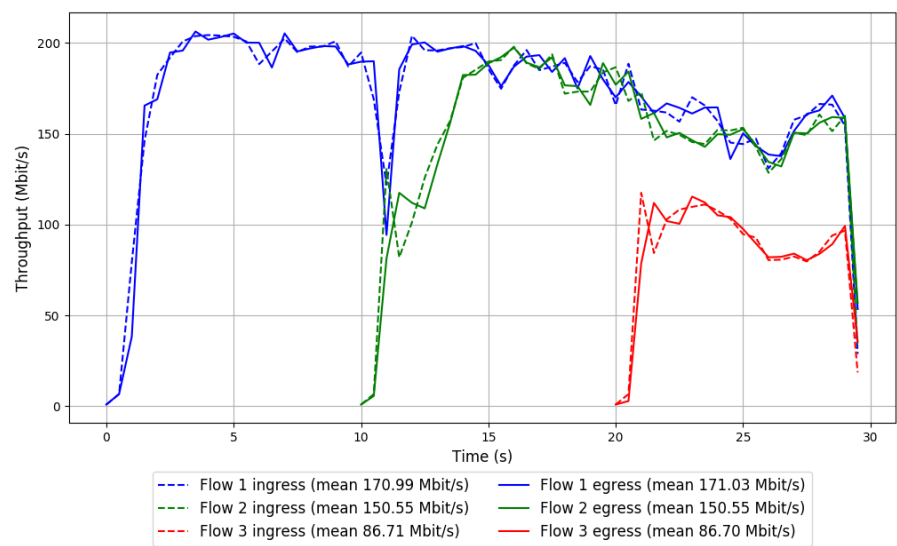
-- Flow 3:

Average throughput: 86.70 Mbit/s

95th percentile per-packet one-way delay: 108.518 ms

Loss rate: 0.01%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2018-01-02 18:29:14

End at: 2018-01-02 18:29:44

Below is generated by plot.py at 2018-01-02 23:04:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 308.59 Mbit/s

95th percentile per-packet one-way delay: 96.446 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 172.76 Mbit/s

95th percentile per-packet one-way delay: 94.260 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 161.08 Mbit/s

95th percentile per-packet one-way delay: 98.406 ms

Loss rate: 0.14%

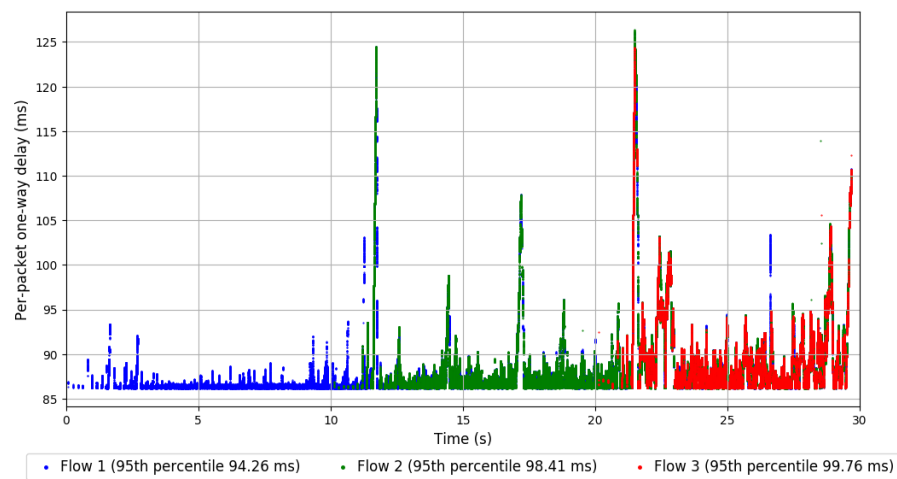
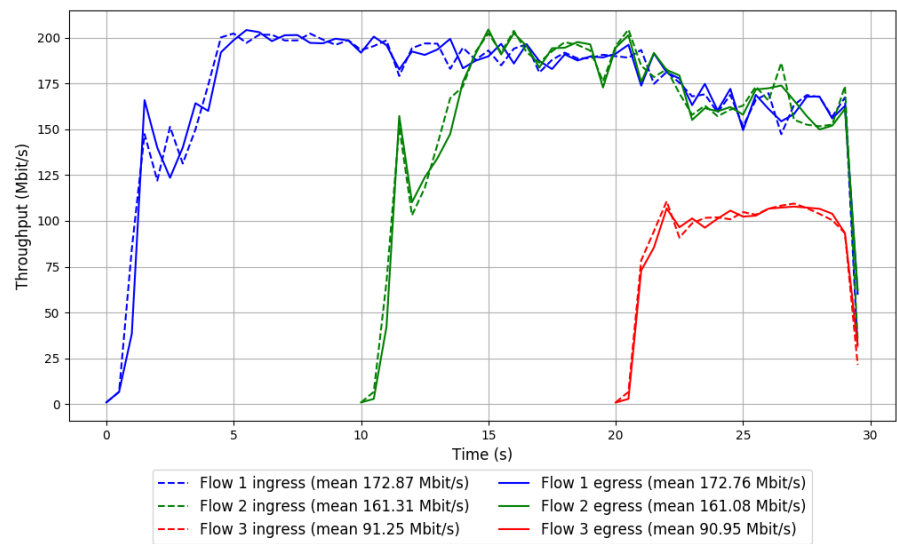
-- Flow 3:

Average throughput: 90.95 Mbit/s

95th percentile per-packet one-way delay: 99.759 ms

Loss rate: 0.23%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

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

End at: 2018-01-02 18:44:32

Below is generated by plot.py at 2018-01-02 23:04:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 308.58 Mbit/s

95th percentile per-packet one-way delay: 102.633 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 169.38 Mbit/s

95th percentile per-packet one-way delay: 100.288 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 145.09 Mbit/s

95th percentile per-packet one-way delay: 103.190 ms

Loss rate: 0.00%

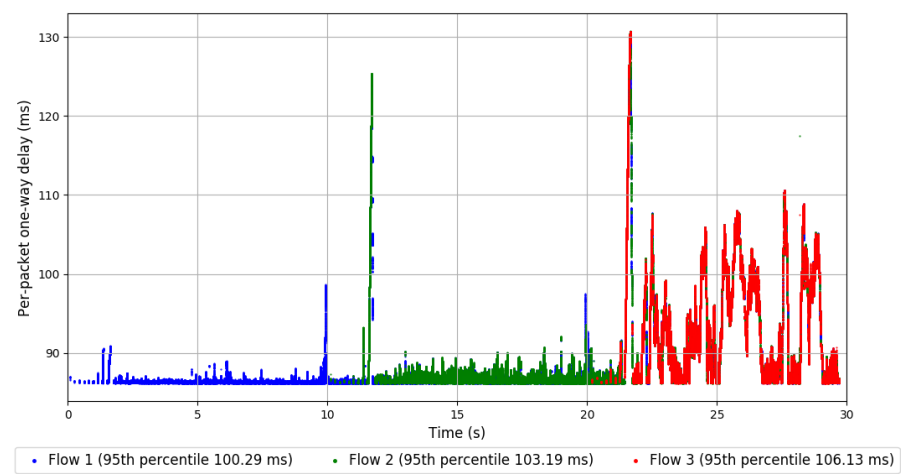
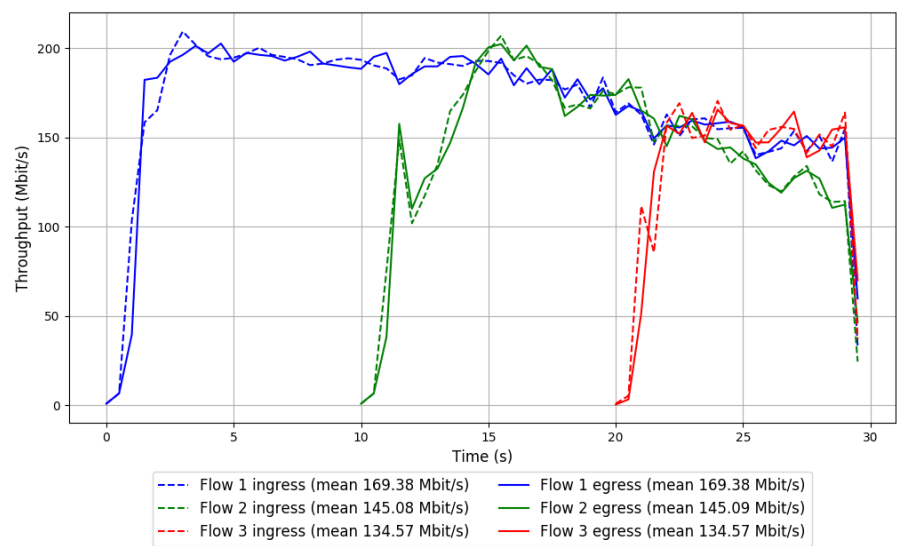
-- Flow 3:

Average throughput: 134.57 Mbit/s

95th percentile per-packet one-way delay: 106.131 ms

Loss rate: 0.00%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2018-01-02 18:58:36

End at: 2018-01-02 18:59:06

Below is generated by plot.py at 2018-01-02 23:04:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 312.25 Mbit/s

95th percentile per-packet one-way delay: 102.023 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 166.32 Mbit/s

95th percentile per-packet one-way delay: 99.023 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 162.06 Mbit/s

95th percentile per-packet one-way delay: 102.779 ms

Loss rate: 0.00%

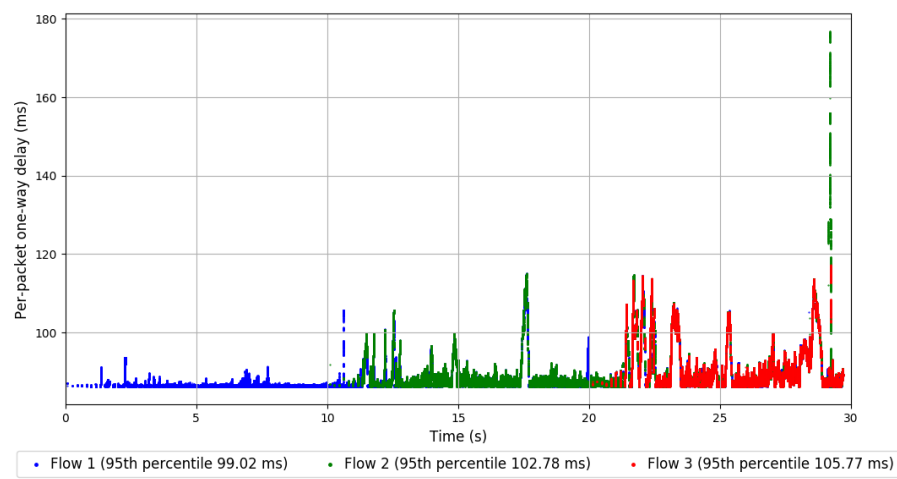
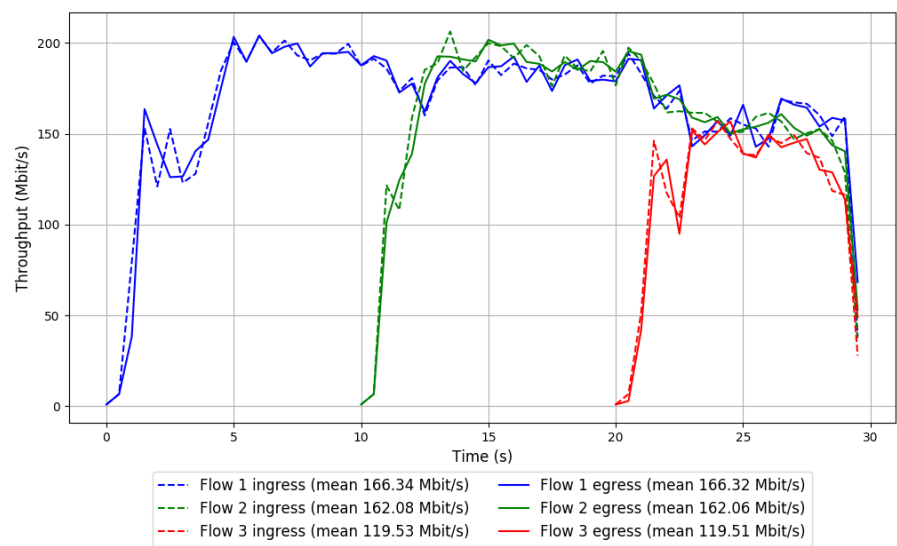
-- Flow 3:

Average throughput: 119.51 Mbit/s

95th percentile per-packet one-way delay: 105.772 ms

Loss rate: 0.00%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2018-01-02 19:12:53

End at: 2018-01-02 19:13:23

Below is generated by plot.py at 2018-01-02 23:04:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 313.81 Mbit/s

95th percentile per-packet one-way delay: 98.808 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 172.53 Mbit/s

95th percentile per-packet one-way delay: 95.693 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 158.04 Mbit/s

95th percentile per-packet one-way delay: 100.789 ms

Loss rate: 0.00%

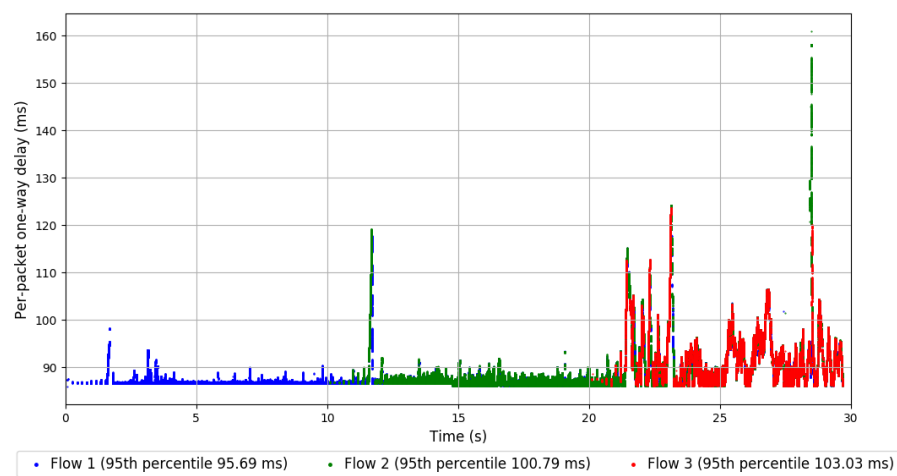
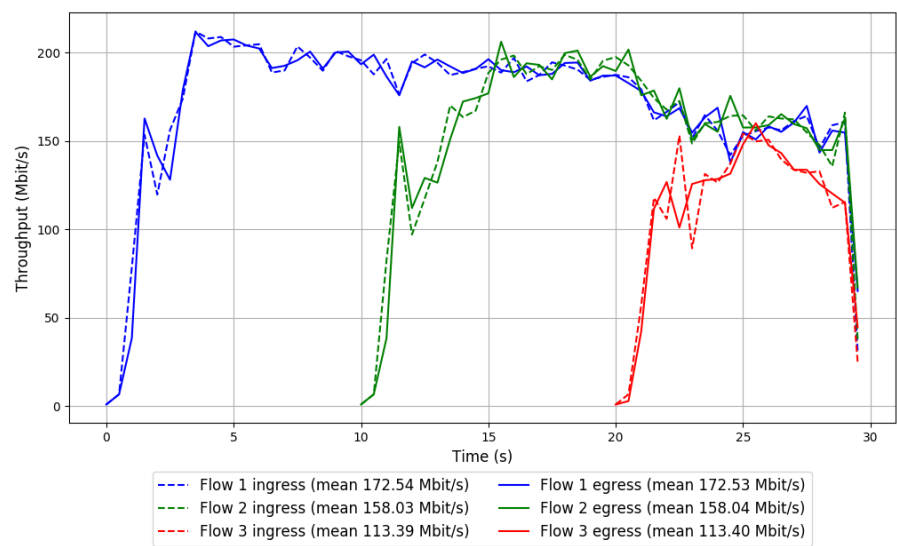
-- Flow 3:

Average throughput: 113.40 Mbit/s

95th percentile per-packet one-way delay: 103.027 ms

Loss rate: 0.00%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2018-01-02 19:27:06

End at: 2018-01-02 19:27:36

Below is generated by plot.py at 2018-01-02 23:04:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 314.26 Mbit/s

95th percentile per-packet one-way delay: 94.384 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 175.19 Mbit/s

95th percentile per-packet one-way delay: 92.276 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 157.07 Mbit/s

95th percentile per-packet one-way delay: 95.837 ms

Loss rate: 0.00%

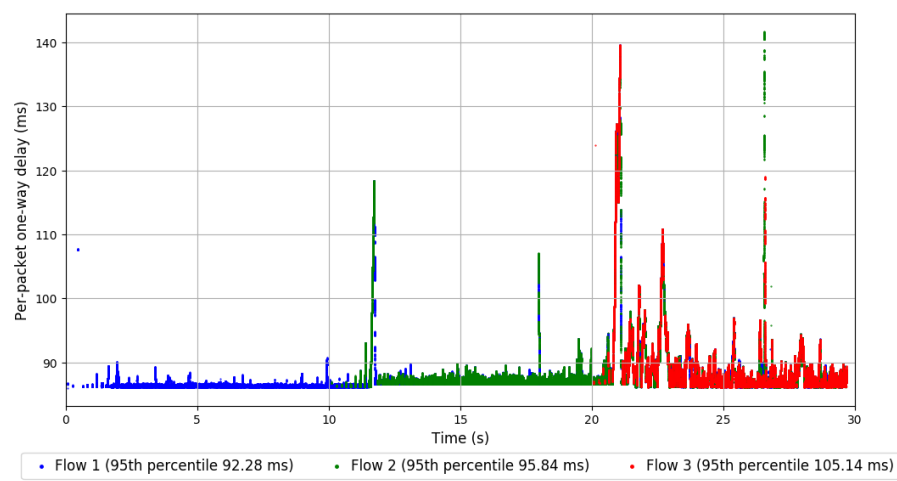
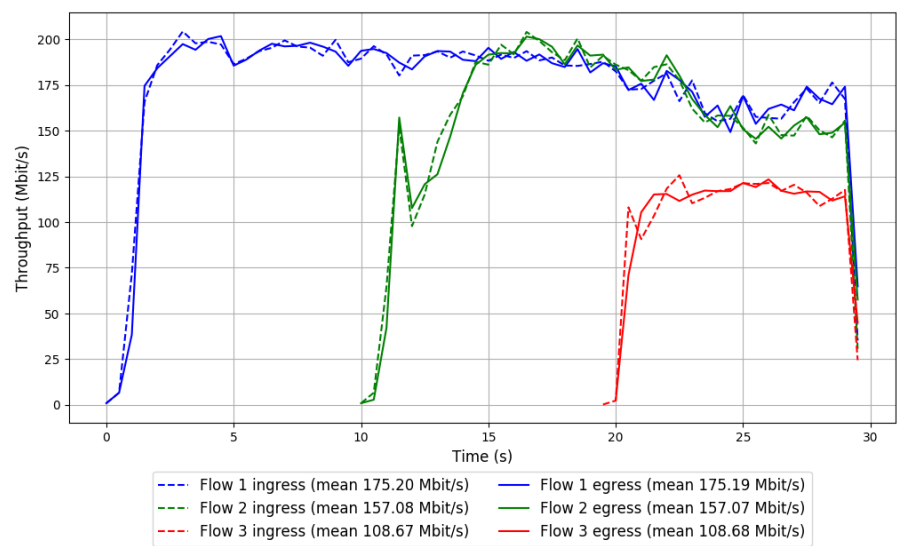
-- Flow 3:

Average throughput: 108.68 Mbit/s

95th percentile per-packet one-way delay: 105.142 ms

Loss rate: 0.00%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2018-01-02 19:41:35

End at: 2018-01-02 19:42:05

Below is generated by plot.py at 2018-01-02 23:04:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 296.41 Mbit/s

95th percentile per-packet one-way delay: 93.179 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 164.00 Mbit/s

95th percentile per-packet one-way delay: 90.220 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 137.93 Mbit/s

95th percentile per-packet one-way delay: 94.797 ms

Loss rate: 0.00%

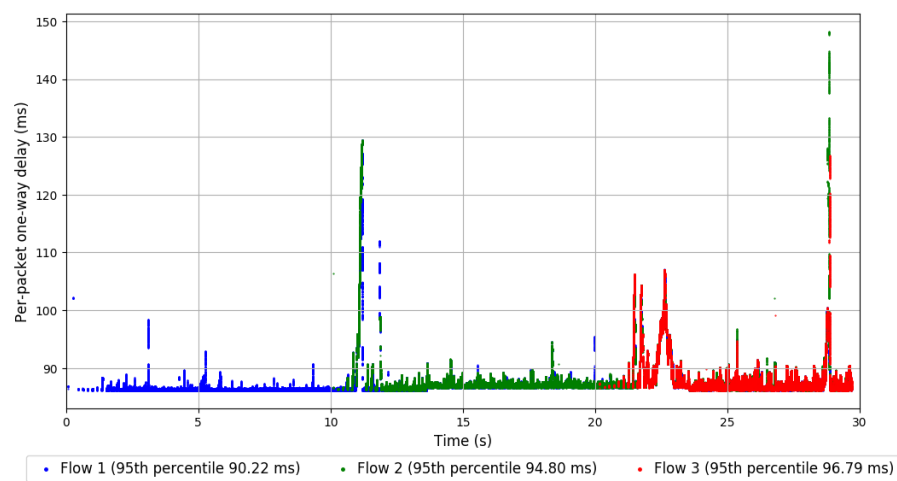
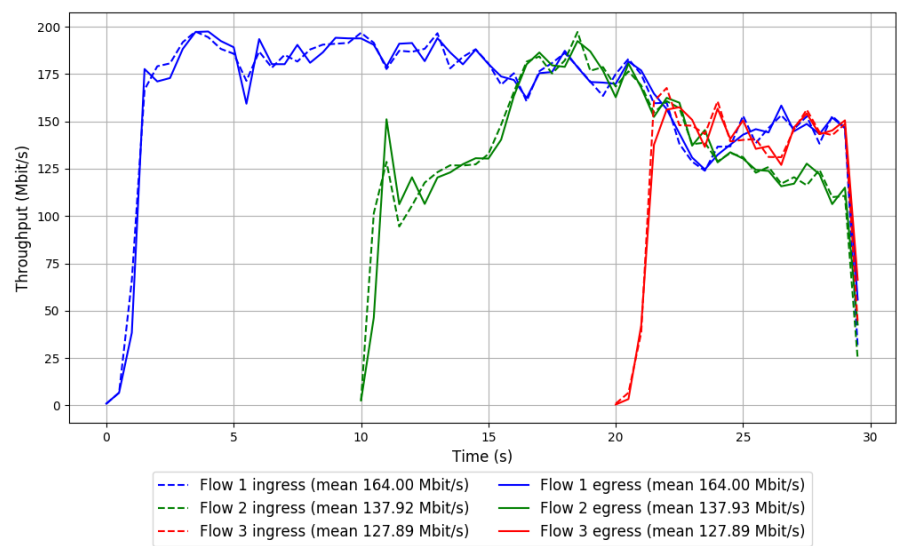
-- Flow 3:

Average throughput: 127.89 Mbit/s

95th percentile per-packet one-way delay: 96.787 ms

Loss rate: 0.00%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2018-01-02 19:56:13

End at: 2018-01-02 19:56:43

Below is generated by plot.py at 2018-01-02 23:04:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 317.45 Mbit/s

95th percentile per-packet one-way delay: 102.179 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 177.75 Mbit/s

95th percentile per-packet one-way delay: 97.000 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 163.07 Mbit/s

95th percentile per-packet one-way delay: 104.294 ms

Loss rate: 0.01%

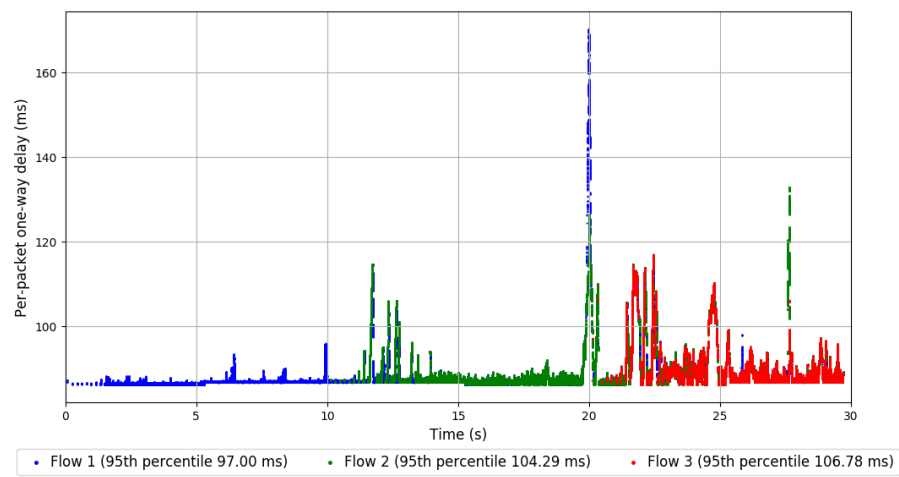
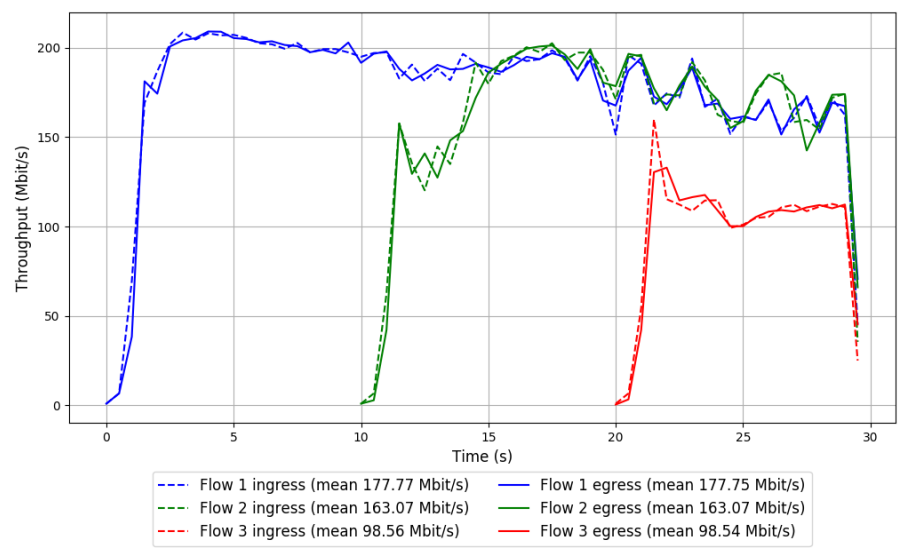
-- Flow 3:

Average throughput: 98.54 Mbit/s

95th percentile per-packet one-way delay: 106.780 ms

Loss rate: 0.00%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2018-01-02 20:10:26

End at: 2018-01-02 20:10:56

Below is generated by plot.py at 2018-01-02 23:04:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 311.25 Mbit/s

95th percentile per-packet one-way delay: 95.576 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 172.35 Mbit/s

95th percentile per-packet one-way delay: 93.645 ms

Loss rate: 0.16%

-- Flow 2:

Average throughput: 166.91 Mbit/s

95th percentile per-packet one-way delay: 96.725 ms

Loss rate: 0.00%

-- Flow 3:

Average throughput: 88.65 Mbit/s

95th percentile per-packet one-way delay: 99.369 ms

Loss rate: 0.00%

Run 10: Report of Indigo — Data Link

