

Pantheon Report

Generated at 2018-01-03 13:55:08 (UTC).

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

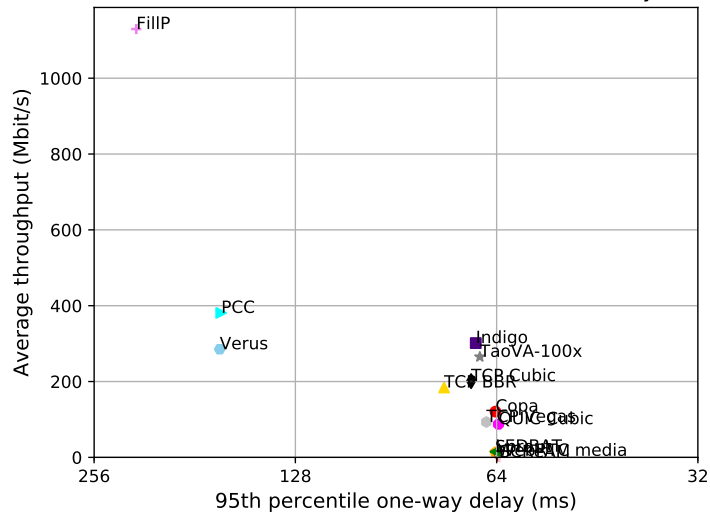
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

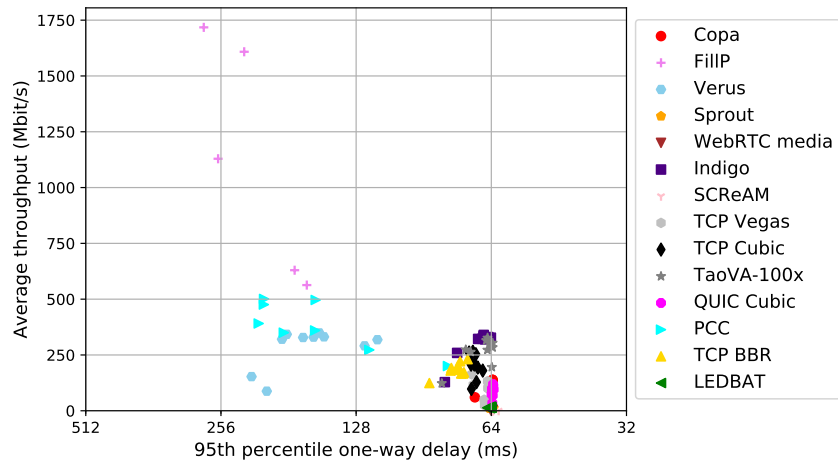
Git summary:

```
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 @ f1a14bffe749737437f61b1eaeab30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
  M src/examples/cellsim.cc
  M src/examples/sproutbt2.cc
  M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/webRTC @ a488197ddd041ace68a42849b2540ad834825f42
```

test from GCE Iowa Ethernet to GCE Tokyo 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 Tokyo 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	85.81	93.76	109.71	75.99	76.13	78.03	1.38	1.30	1.60
TCP Cubic	10	97.24	108.20	96.39	68.79	70.02	70.99	0.16	0.13	0.30
LEDBAT	10	7.53	8.43	5.54	64.28	64.34	64.02	0.53	0.06	0.49
PCC	8	240.78	204.44	24.81	1434.17	158.94	137.14	4.19	5.76	7.77
QUIC Cubic	10	45.16	48.15	32.11	63.17	63.41	63.81	0.00	0.00	0.00
SCReAM	8	0.47	0.22	0.22	71.35	63.12	63.26	0.00	0.00	0.00
WebRTC media	9	2.18	1.37	0.53	63.54	63.18	63.73	0.00	0.00	0.00
Sprout	10	6.49	6.52	6.21	64.27	64.38	64.29	0.05	0.02	0.01
TaoVA-100x	10	140.48	141.02	120.34	67.79	67.55	67.69	0.78	1.30	2.08
TCP Vegas	10	48.99	36.39	60.47	65.71	65.44	66.95	0.03	0.08	0.19
Verus	10	198.79	100.11	61.99	152.89	170.30	135.34	6.02	8.40	4.94
Copa	10	65.49	62.67	52.65	64.00	64.72	64.59	0.01	0.02	0.03
FillP	5	544.95	552.18	555.97	217.18	181.44	180.03	11.44	15.36	17.98
Indigo	10	161.11	149.40	127.93	67.99	69.61	70.29	0.87	1.38	0.91

Run 1: Statistics of TCP BBR

Start at: 2018-01-03 09:08:53

End at: 2018-01-03 09:09:23

Below is generated by plot.py at 2018-01-03 12:44:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 124.19 Mbit/s

95th percentile per-packet one-way delay: 87.923 ms

Loss rate: 13.28%

-- Flow 1:

Average throughput: 69.90 Mbit/s

95th percentile per-packet one-way delay: 89.617 ms

Loss rate: 13.36%

-- Flow 2:

Average throughput: 65.65 Mbit/s

95th percentile per-packet one-way delay: 85.190 ms

Loss rate: 12.46%

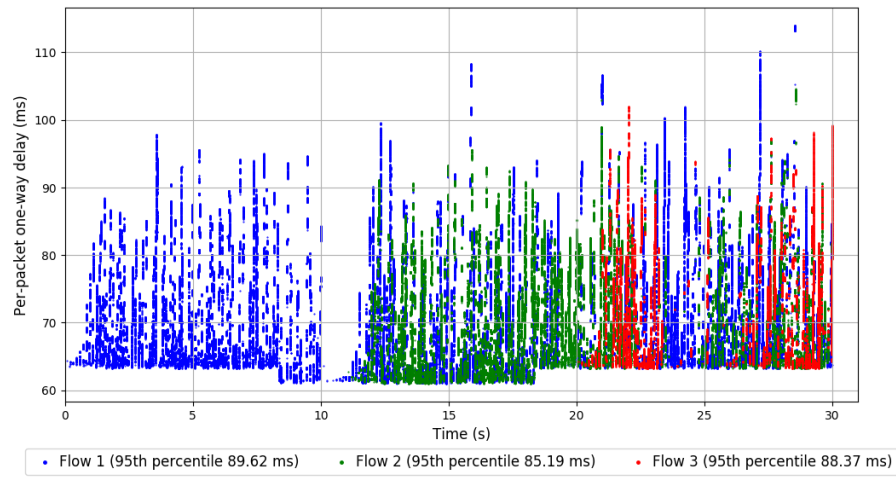
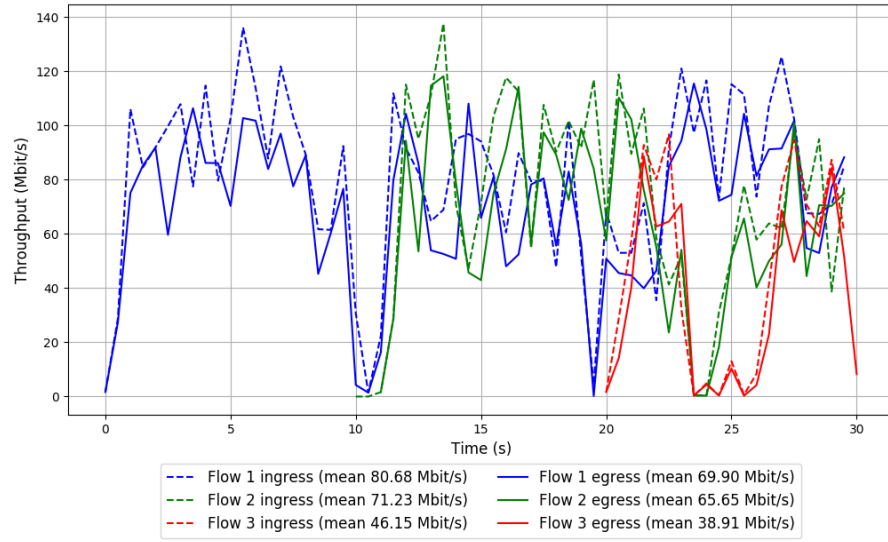
-- Flow 3:

Average throughput: 38.91 Mbit/s

95th percentile per-packet one-way delay: 88.367 ms

Loss rate: 15.39%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-01-03 09:21:17

End at: 2018-01-03 09:21:47

Below is generated by plot.py at 2018-01-03 12:45:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 180.29 Mbit/s

95th percentile per-packet one-way delay: 78.838 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 86.10 Mbit/s

95th percentile per-packet one-way delay: 79.847 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 85.93 Mbit/s

95th percentile per-packet one-way delay: 78.372 ms

Loss rate: 0.12%

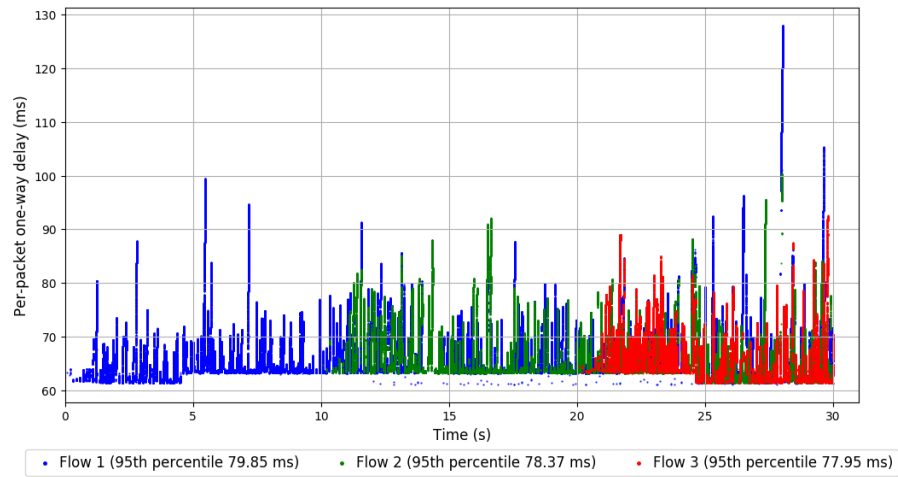
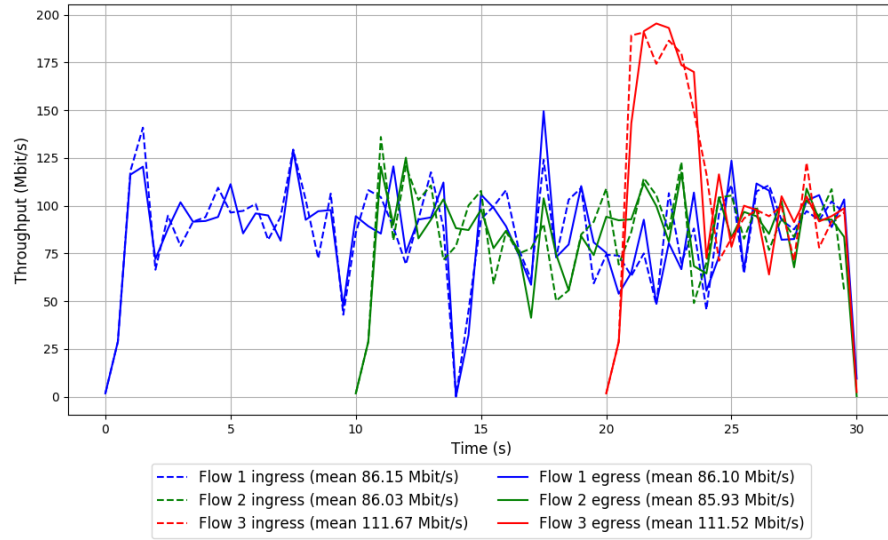
-- Flow 3:

Average throughput: 111.52 Mbit/s

95th percentile per-packet one-way delay: 77.947 ms

Loss rate: 0.08%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-01-03 09:34:30

End at: 2018-01-03 09:35:00

Below is generated by plot.py at 2018-01-03 12:45:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 183.62 Mbit/s

95th percentile per-packet one-way delay: 76.083 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 84.77 Mbit/s

95th percentile per-packet one-way delay: 72.711 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 91.14 Mbit/s

95th percentile per-packet one-way delay: 76.494 ms

Loss rate: 0.00%

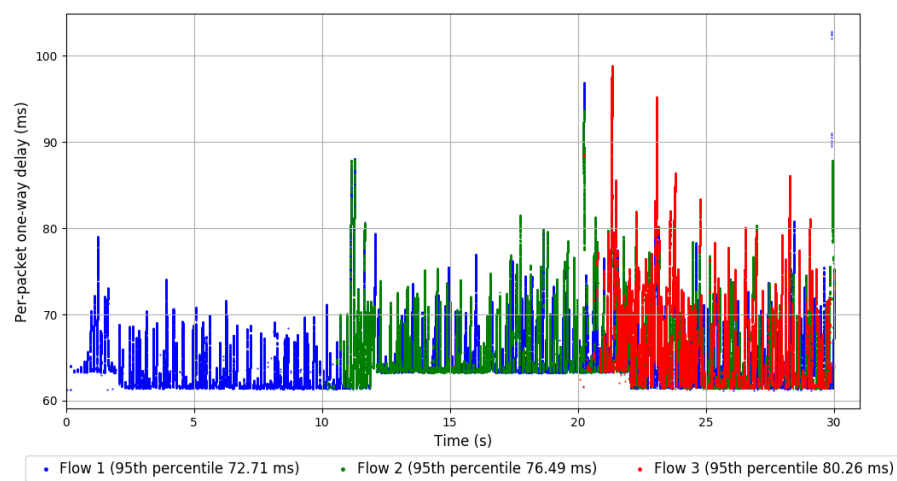
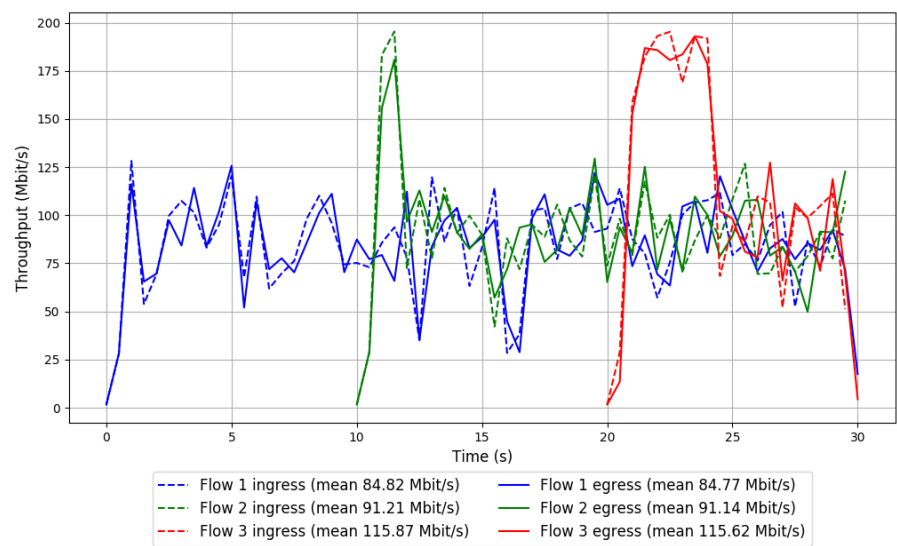
-- Flow 3:

Average throughput: 115.62 Mbit/s

95th percentile per-packet one-way delay: 80.262 ms

Loss rate: 0.16%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-01-03 09:48:33

End at: 2018-01-03 09:49:03

Below is generated by plot.py at 2018-01-03 12:45:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 202.26 Mbit/s

95th percentile per-packet one-way delay: 75.948 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 88.43 Mbit/s

95th percentile per-packet one-way delay: 73.805 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 87.23 Mbit/s

95th percentile per-packet one-way delay: 76.342 ms

Loss rate: 0.00%

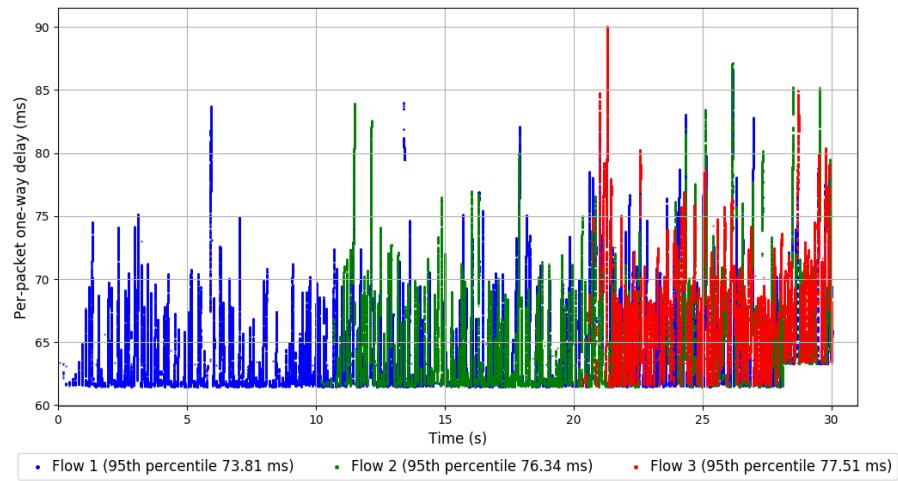
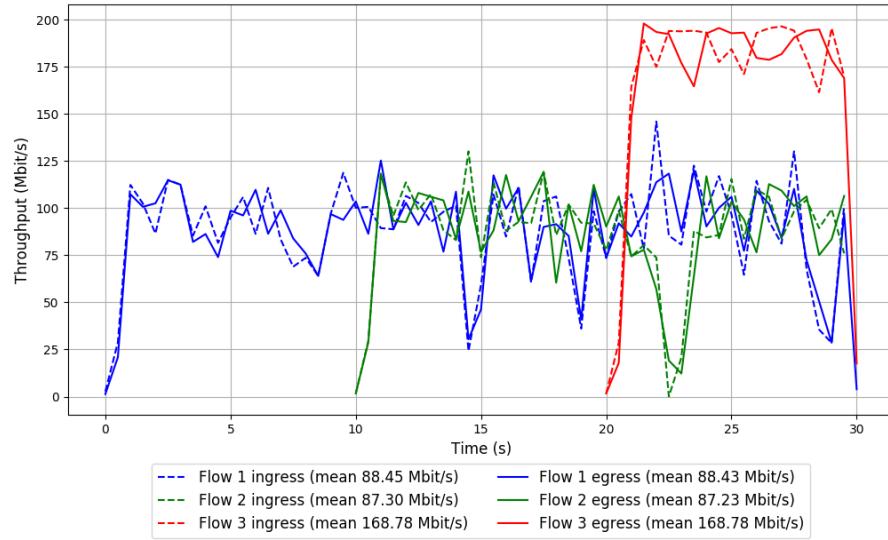
-- Flow 3:

Average throughput: 168.78 Mbit/s

95th percentile per-packet one-way delay: 77.513 ms

Loss rate: 0.00%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-01-03 10:02:14

End at: 2018-01-03 10:02:44

Below is generated by plot.py at 2018-01-03 12:45:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 166.95 Mbit/s

95th percentile per-packet one-way delay: 74.678 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 85.12 Mbit/s

95th percentile per-packet one-way delay: 74.060 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 85.16 Mbit/s

95th percentile per-packet one-way delay: 75.244 ms

Loss rate: 0.00%

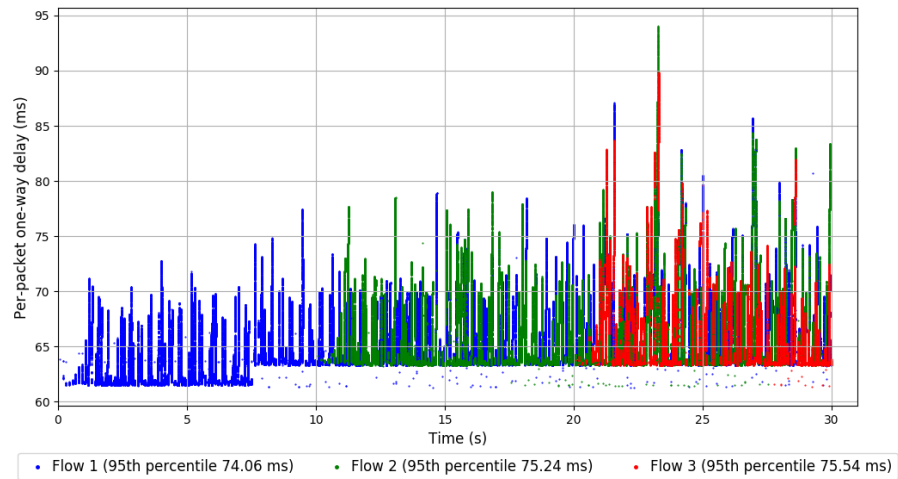
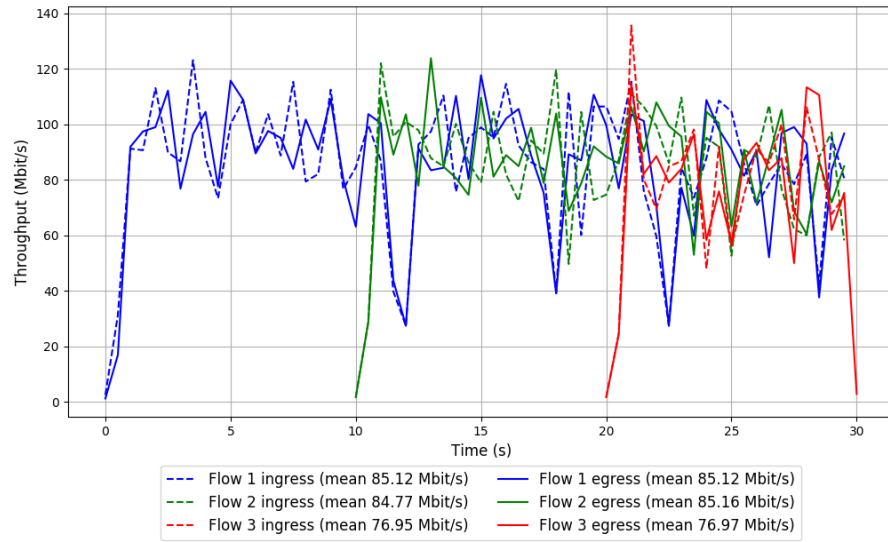
-- Flow 3:

Average throughput: 76.97 Mbit/s

95th percentile per-packet one-way delay: 75.542 ms

Loss rate: 0.11%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-01-03 10:16:21

End at: 2018-01-03 10:16:51

Below is generated by plot.py at 2018-01-03 12:45:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 167.01 Mbit/s

95th percentile per-packet one-way delay: 73.943 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 84.13 Mbit/s

95th percentile per-packet one-way delay: 72.981 ms

Loss rate: 0.09%

-- Flow 2:

Average throughput: 82.63 Mbit/s

95th percentile per-packet one-way delay: 74.481 ms

Loss rate: 0.00%

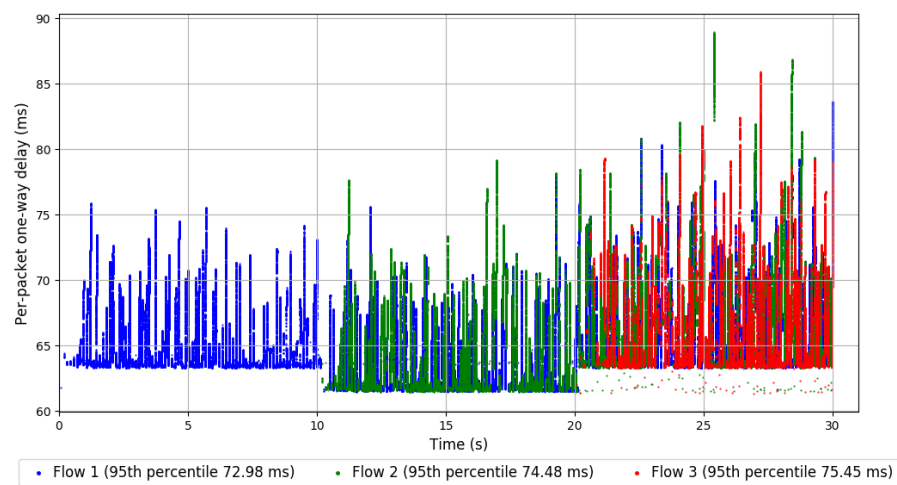
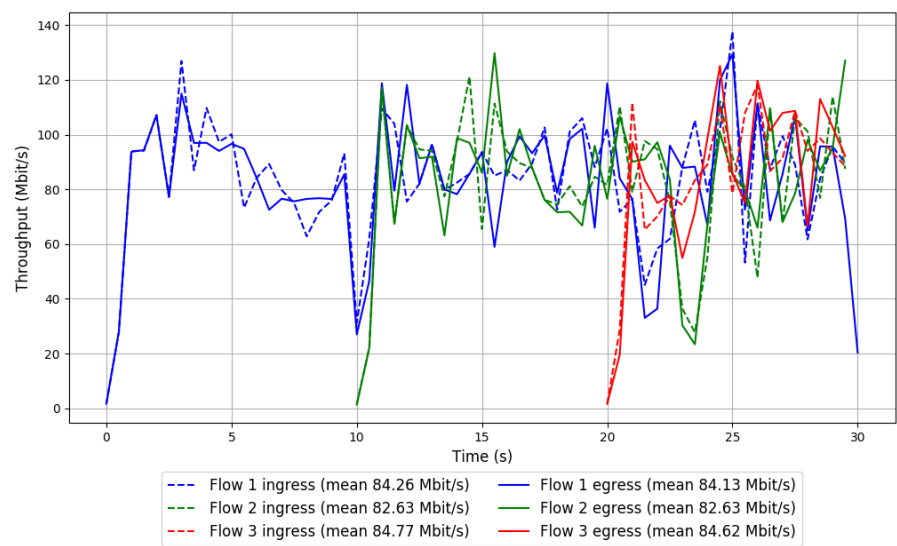
-- Flow 3:

Average throughput: 84.62 Mbit/s

95th percentile per-packet one-way delay: 75.454 ms

Loss rate: 0.00%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-01-03 10:30:36

End at: 2018-01-03 10:31:06

Below is generated by plot.py at 2018-01-03 12:45:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 191.81 Mbit/s

95th percentile per-packet one-way delay: 78.560 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 83.29 Mbit/s

95th percentile per-packet one-way delay: 73.765 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 84.31 Mbit/s

95th percentile per-packet one-way delay: 77.394 ms

Loss rate: 0.00%

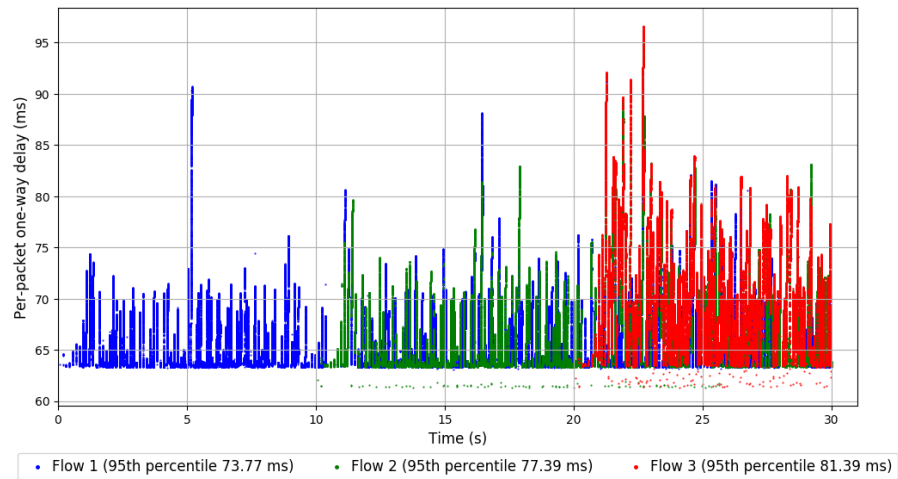
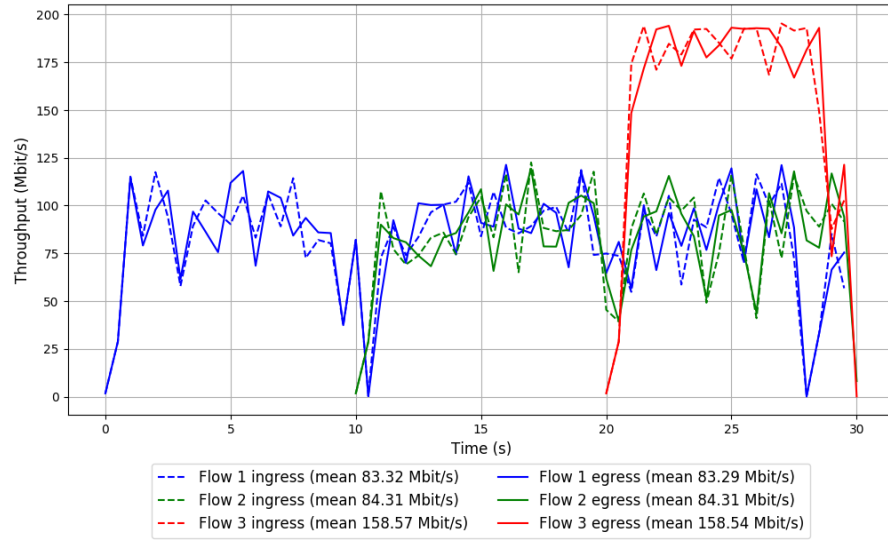
-- Flow 3:

Average throughput: 158.54 Mbit/s

95th percentile per-packet one-way delay: 81.386 ms

Loss rate: 0.01%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-01-03 10:44:46

End at: 2018-01-03 10:45:16

Below is generated by plot.py at 2018-01-03 12:45:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 172.49 Mbit/s

95th percentile per-packet one-way delay: 73.650 ms

Loss rate: 0.15%

-- Flow 1:

Average throughput: 88.48 Mbit/s

95th percentile per-packet one-way delay: 73.435 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 81.16 Mbit/s

95th percentile per-packet one-way delay: 73.560 ms

Loss rate: 0.36%

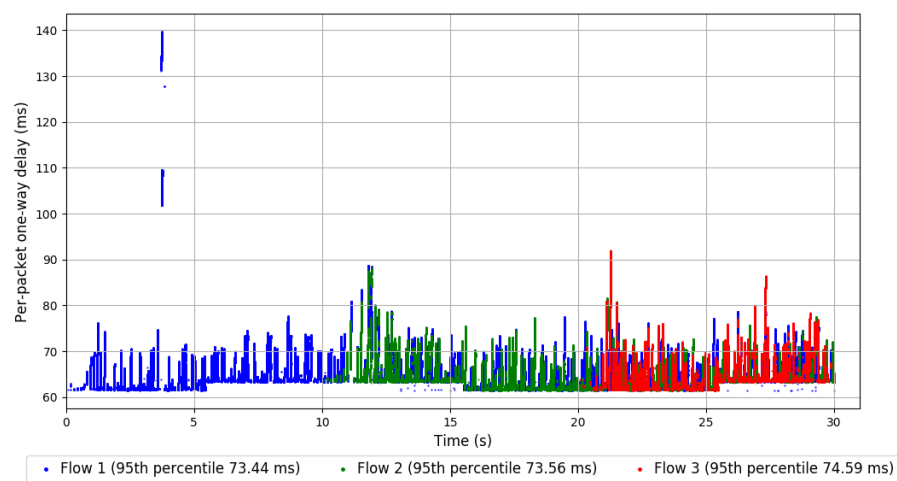
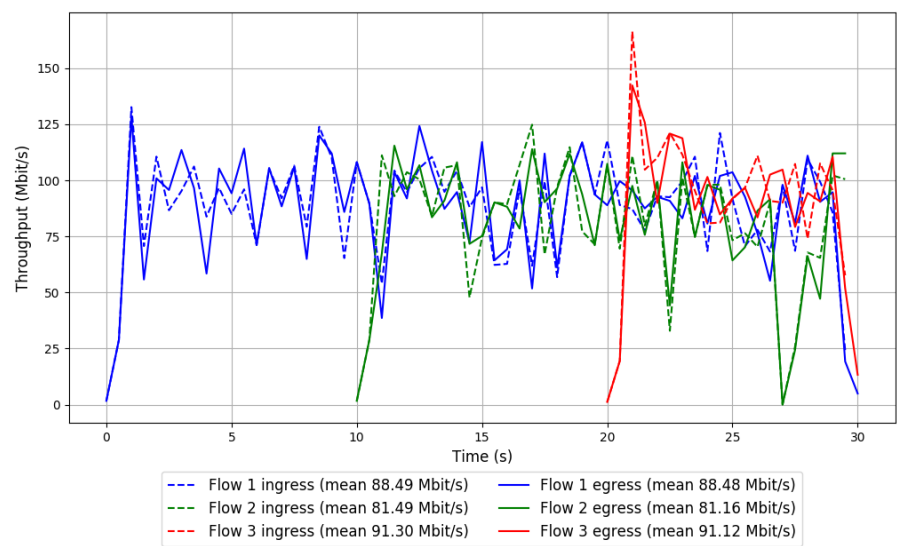
-- Flow 3:

Average throughput: 91.12 Mbit/s

95th percentile per-packet one-way delay: 74.589 ms

Loss rate: 0.20%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-01-03 10:58:43

End at: 2018-01-03 10:59:13

Below is generated by plot.py at 2018-01-03 12:48:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 231.30 Mbit/s

95th percentile per-packet one-way delay: 72.265 ms

Loss rate: 0.13%

-- Flow 1:

Average throughput: 104.52 Mbit/s

95th percentile per-packet one-way delay: 72.820 ms

Loss rate: 0.25%

-- Flow 2:

Average throughput: 147.60 Mbit/s

95th percentile per-packet one-way delay: 71.792 ms

Loss rate: 0.04%

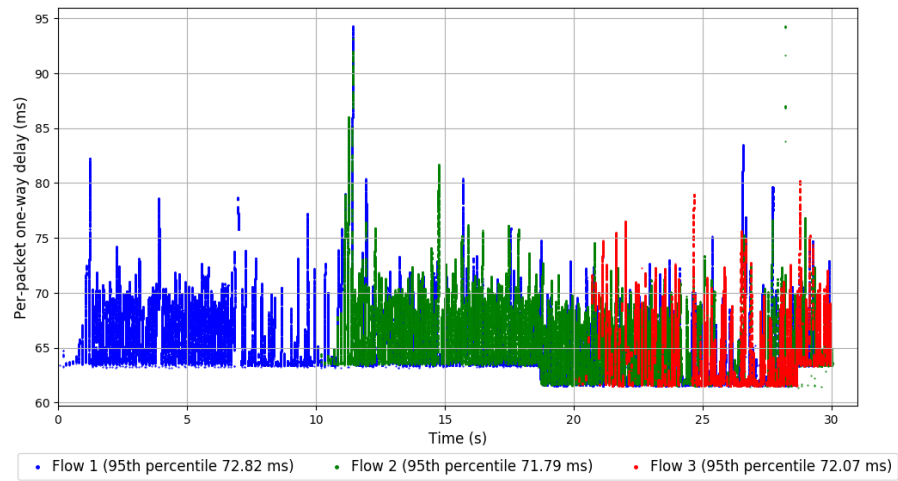
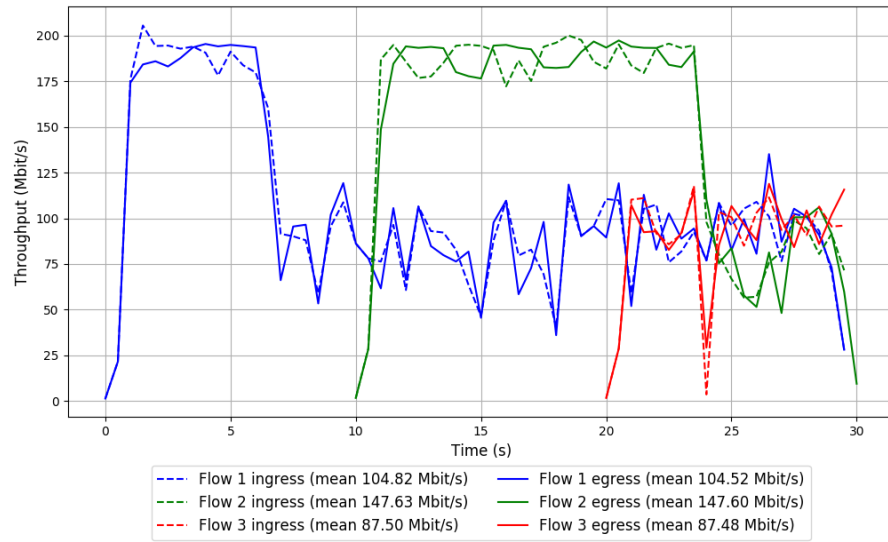
-- Flow 3:

Average throughput: 87.48 Mbit/s

95th percentile per-packet one-way delay: 72.071 ms

Loss rate: 0.00%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-01-03 11:12:36

End at: 2018-01-03 11:13:06

Below is generated by plot.py at 2018-01-03 12:48:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 221.69 Mbit/s

95th percentile per-packet one-way delay: 75.101 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 83.33 Mbit/s

95th percentile per-packet one-way delay: 76.813 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 126.76 Mbit/s

95th percentile per-packet one-way delay: 72.431 ms

Loss rate: 0.03%

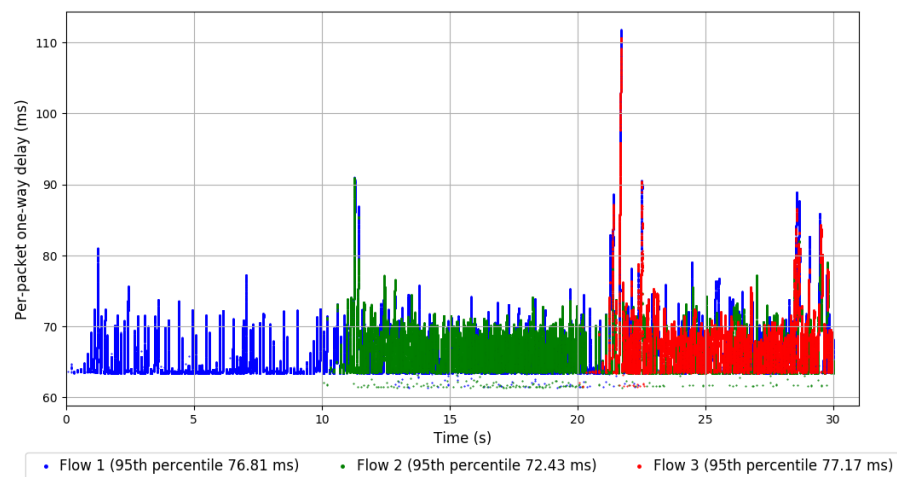
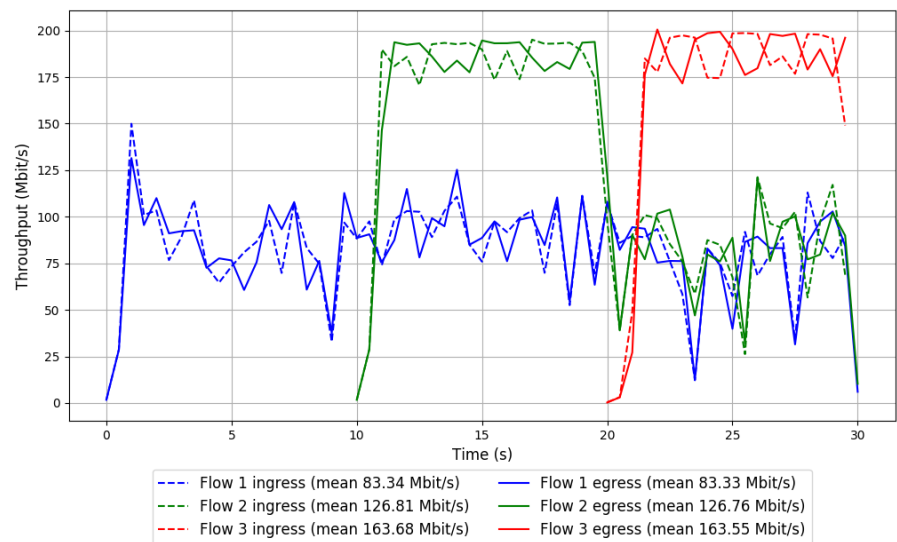
-- Flow 3:

Average throughput: 163.55 Mbit/s

95th percentile per-packet one-way delay: 77.167 ms

Loss rate: 0.01%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-01-03 09:09:44

End at: 2018-01-03 09:10:14

Below is generated by plot.py at 2018-01-03 12:48:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.67 Mbit/s

95th percentile per-packet one-way delay: 70.864 ms

Loss rate: 1.13%

-- Flow 1:

Average throughput: 45.52 Mbit/s

95th percentile per-packet one-way delay: 68.844 ms

Loss rate: 0.84%

-- Flow 2:

Average throughput: 52.75 Mbit/s

95th percentile per-packet one-way delay: 71.230 ms

Loss rate: 1.14%

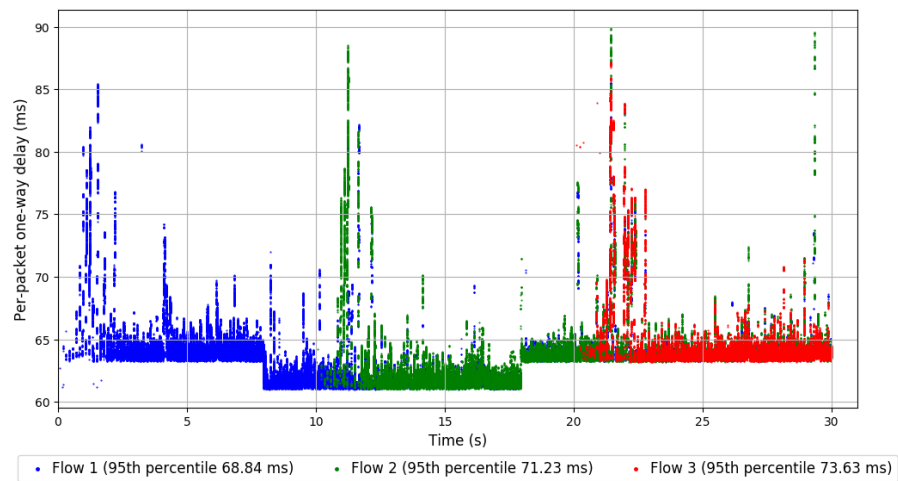
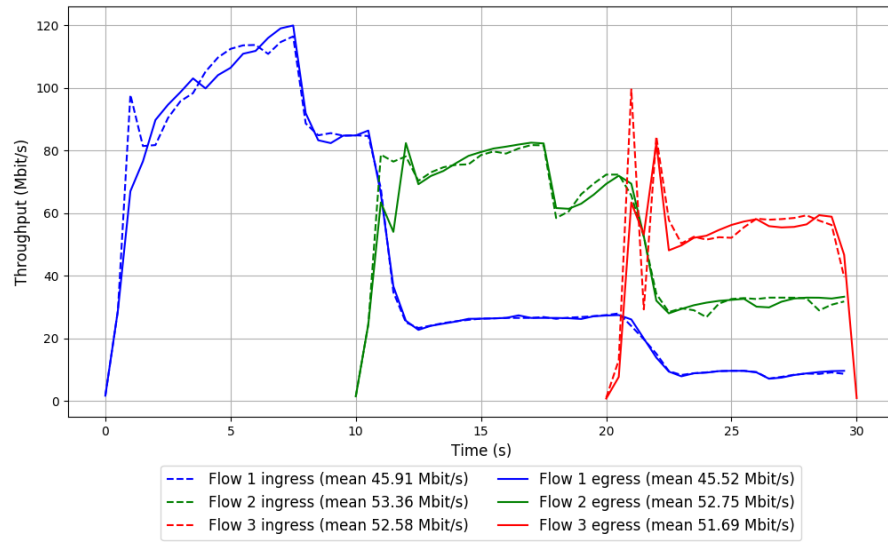
-- Flow 3:

Average throughput: 51.69 Mbit/s

95th percentile per-packet one-way delay: 73.629 ms

Loss rate: 1.85%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-01-03 09:22:11

End at: 2018-01-03 09:22:41

Below is generated by plot.py at 2018-01-03 12:48:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 128.17 Mbit/s

95th percentile per-packet one-way delay: 69.051 ms

Loss rate: 0.20%

-- Flow 1:

Average throughput: 61.41 Mbit/s

95th percentile per-packet one-way delay: 68.362 ms

Loss rate: 0.35%

-- Flow 2:

Average throughput: 65.31 Mbit/s

95th percentile per-packet one-way delay: 68.420 ms

Loss rate: 0.05%

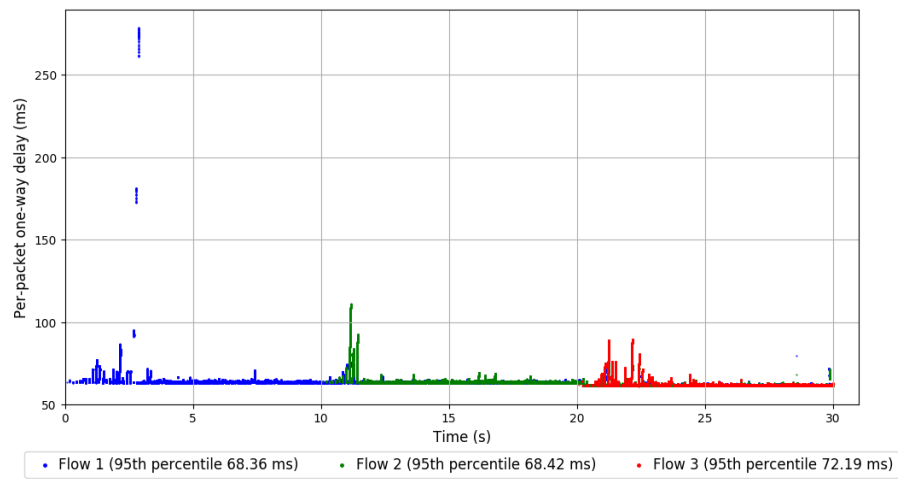
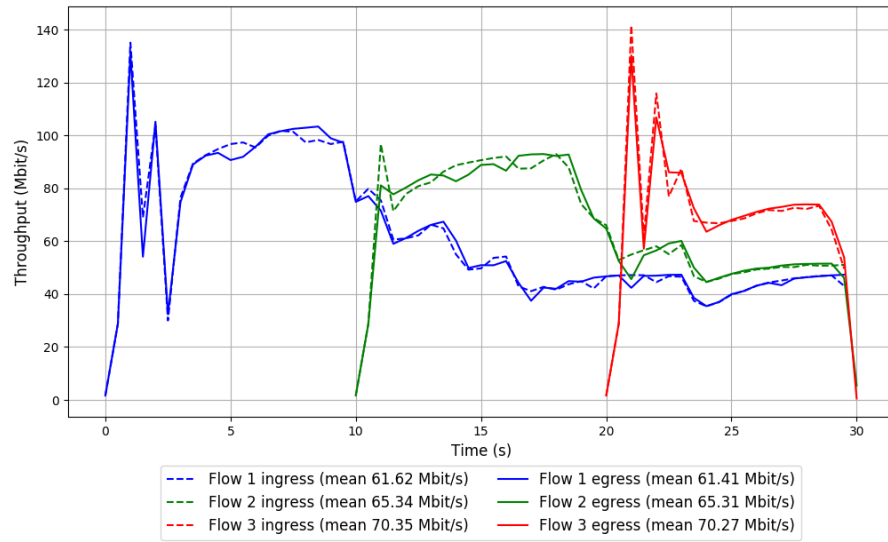
-- Flow 3:

Average throughput: 70.27 Mbit/s

95th percentile per-packet one-way delay: 72.191 ms

Loss rate: 0.11%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-01-03 09:35:23

End at: 2018-01-03 09:35:53

Below is generated by plot.py at 2018-01-03 12:48:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 193.73 Mbit/s

95th percentile per-packet one-way delay: 68.600 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 95.44 Mbit/s

95th percentile per-packet one-way delay: 67.052 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 105.65 Mbit/s

95th percentile per-packet one-way delay: 69.163 ms

Loss rate: 0.07%

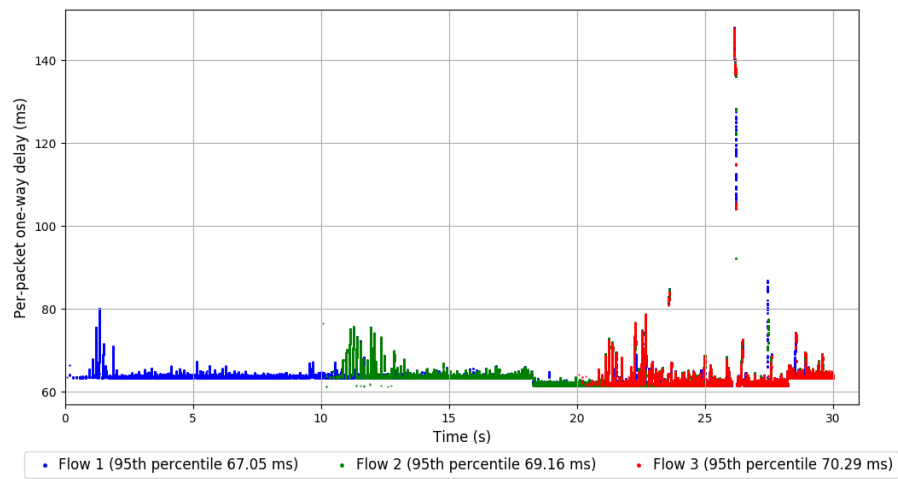
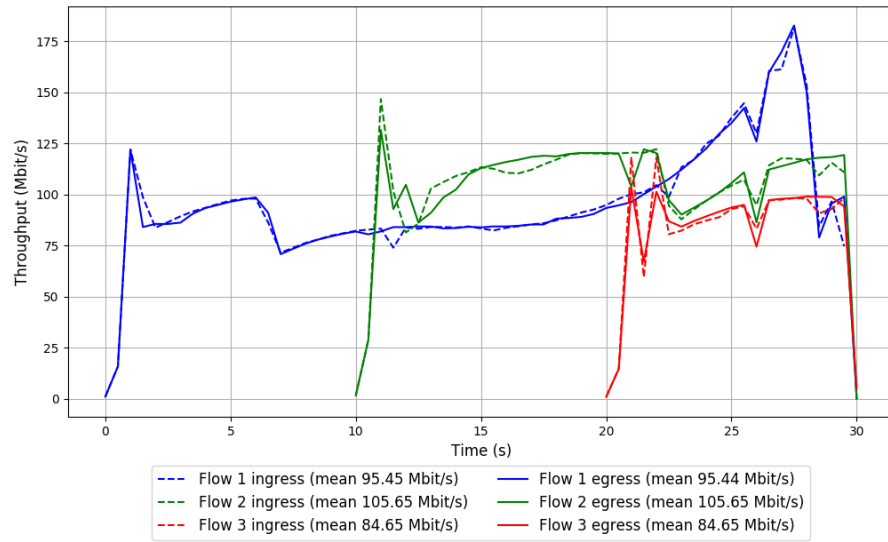
-- Flow 3:

Average throughput: 84.65 Mbit/s

95th percentile per-packet one-way delay: 70.294 ms

Loss rate: 0.00%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-01-03 09:49:28

End at: 2018-01-03 09:49:58

Below is generated by plot.py at 2018-01-03 12:49:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 260.93 Mbit/s

95th percentile per-packet one-way delay: 71.723 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 119.83 Mbit/s

95th percentile per-packet one-way delay: 71.062 ms

Loss rate: 0.09%

-- Flow 2:

Average throughput: 170.08 Mbit/s

95th percentile per-packet one-way delay: 72.055 ms

Loss rate: 0.00%

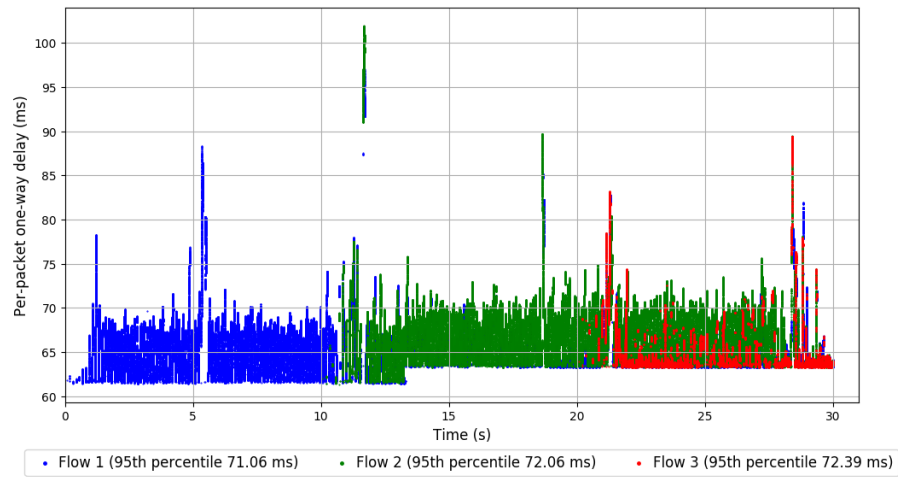
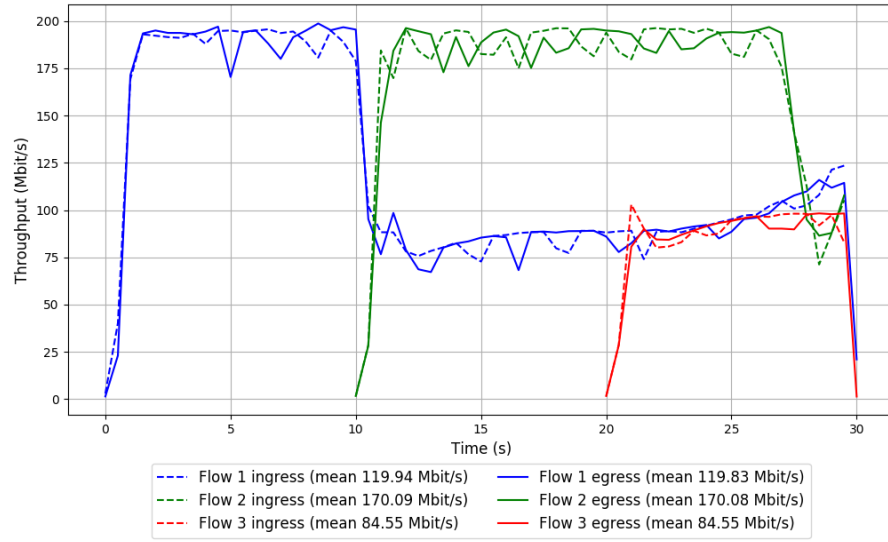
-- Flow 3:

Average throughput: 84.55 Mbit/s

95th percentile per-packet one-way delay: 72.387 ms

Loss rate: 0.00%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-01-03 10:03:07

End at: 2018-01-03 10:03:37

Below is generated by plot.py at 2018-01-03 12:50:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 264.31 Mbit/s

95th percentile per-packet one-way delay: 70.349 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 117.41 Mbit/s

95th percentile per-packet one-way delay: 70.078 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 172.14 Mbit/s

95th percentile per-packet one-way delay: 70.436 ms

Loss rate: 0.00%

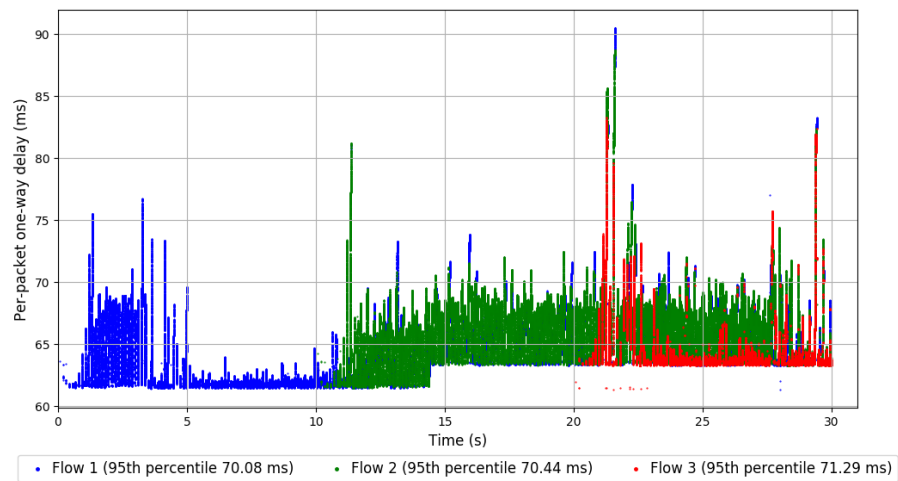
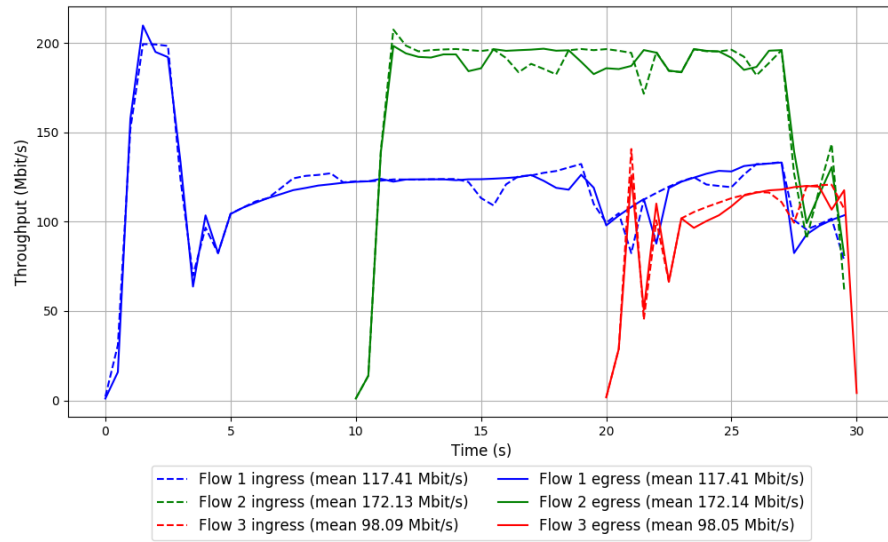
-- Flow 3:

Average throughput: 98.05 Mbit/s

95th percentile per-packet one-way delay: 71.291 ms

Loss rate: 0.04%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-01-03 10:17:15

End at: 2018-01-03 10:17:45

Below is generated by plot.py at 2018-01-03 12:50:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 206.58 Mbit/s

95th percentile per-packet one-way delay: 70.989 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 79.02 Mbit/s

95th percentile per-packet one-way delay: 70.673 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 107.21 Mbit/s

95th percentile per-packet one-way delay: 70.627 ms

Loss rate: 0.00%

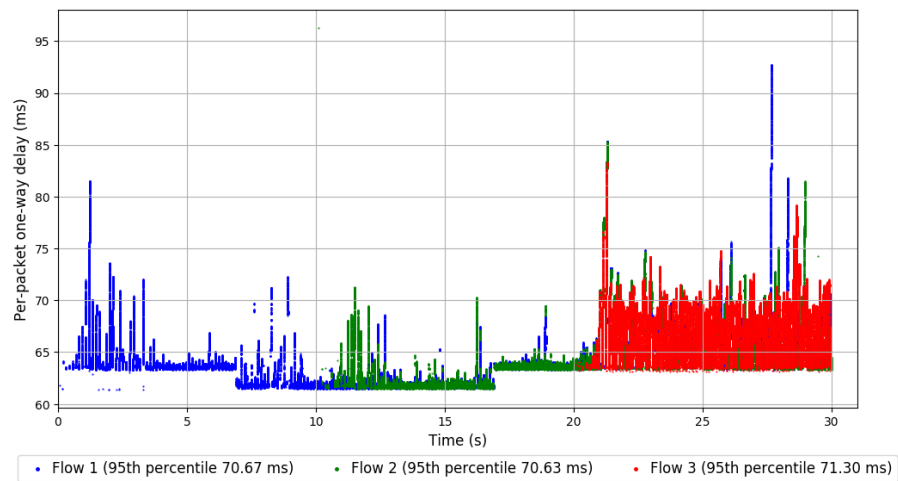
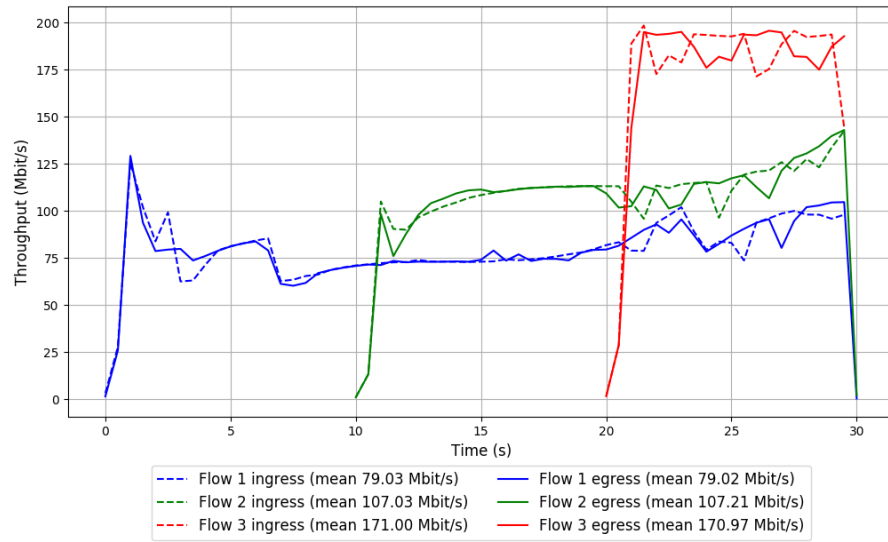
-- Flow 3:

Average throughput: 170.97 Mbit/s

95th percentile per-packet one-way delay: 71.295 ms

Loss rate: 0.00%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-01-03 10:31:30

End at: 2018-01-03 10:32:00

Below is generated by plot.py at 2018-01-03 12:51:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 253.45 Mbit/s

95th percentile per-packet one-way delay: 69.288 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 138.95 Mbit/s

95th percentile per-packet one-way delay: 68.477 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 110.87 Mbit/s

95th percentile per-packet one-way delay: 69.337 ms

Loss rate: 0.03%

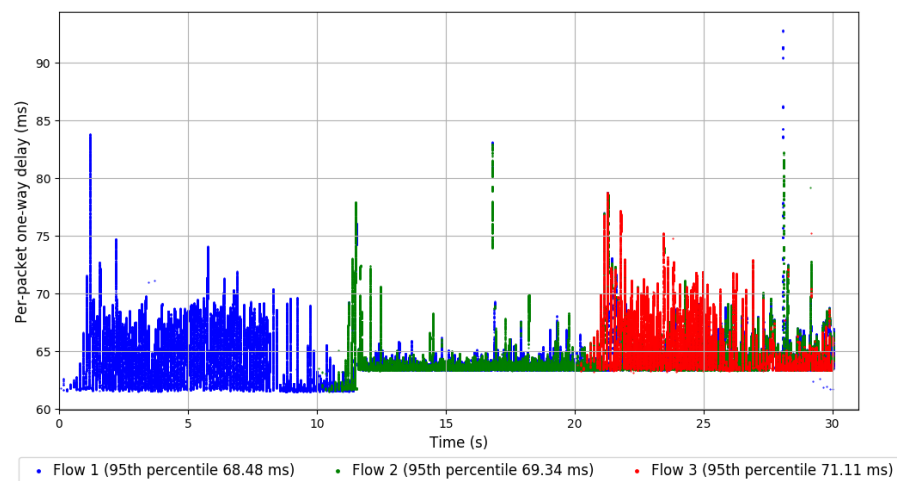
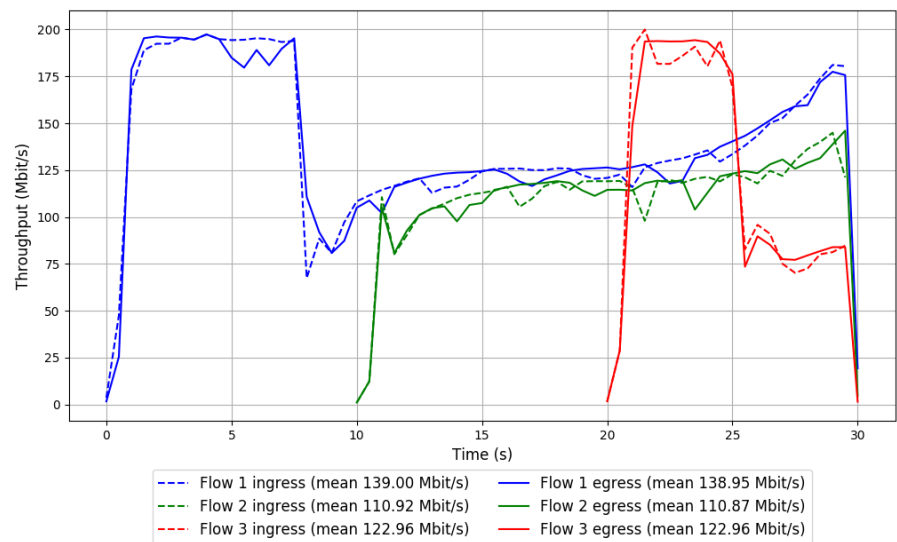
-- Flow 3:

Average throughput: 122.96 Mbit/s

95th percentile per-packet one-way delay: 71.109 ms

Loss rate: 0.00%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-01-03 10:45:40

End at: 2018-01-03 10:46:10

Below is generated by plot.py at 2018-01-03 12:51:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 179.99 Mbit/s

95th percentile per-packet one-way delay: 66.877 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 121.99 Mbit/s

95th percentile per-packet one-way delay: 65.141 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 85.99 Mbit/s

95th percentile per-packet one-way delay: 69.682 ms

Loss rate: 0.02%

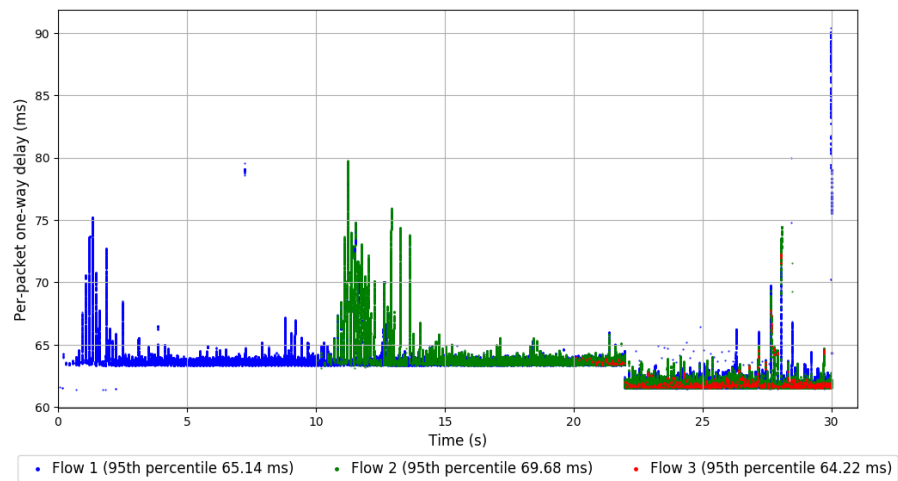
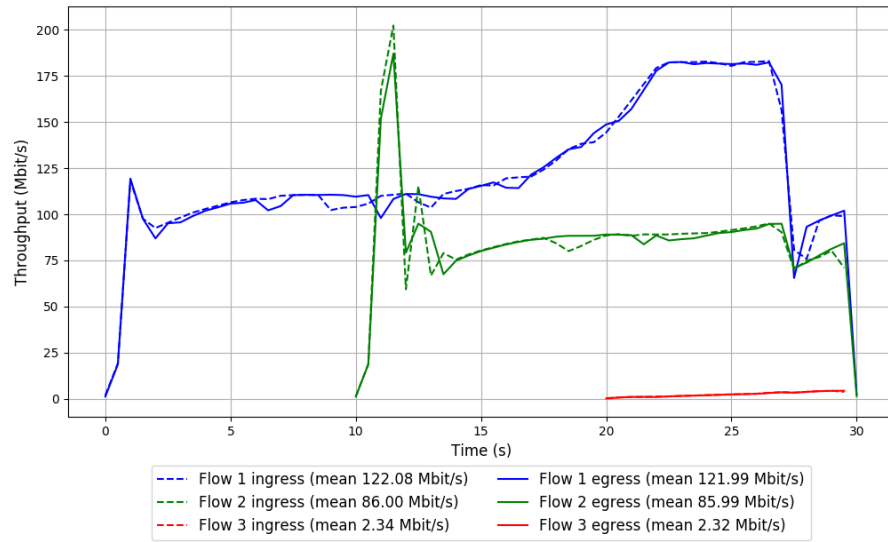
-- Flow 3:

Average throughput: 2.32 Mbit/s

95th percentile per-packet one-way delay: 64.215 ms

Loss rate: 0.98%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-01-03 10:59:39

End at: 2018-01-03 11:00:09

Below is generated by plot.py at 2018-01-03 12:51:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 207.18 Mbit/s

95th percentile per-packet one-way delay: 69.821 ms

Loss rate: 0.11%

-- Flow 1:

Average throughput: 101.22 Mbit/s

95th percentile per-packet one-way delay: 67.648 ms

Loss rate: 0.21%

-- Flow 2:

Average throughput: 75.49 Mbit/s

95th percentile per-packet one-way delay: 67.849 ms

Loss rate: 0.00%

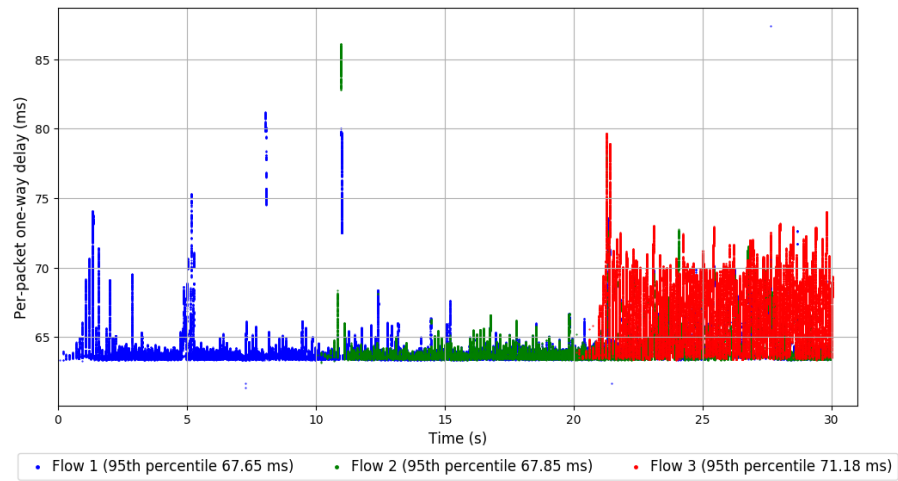
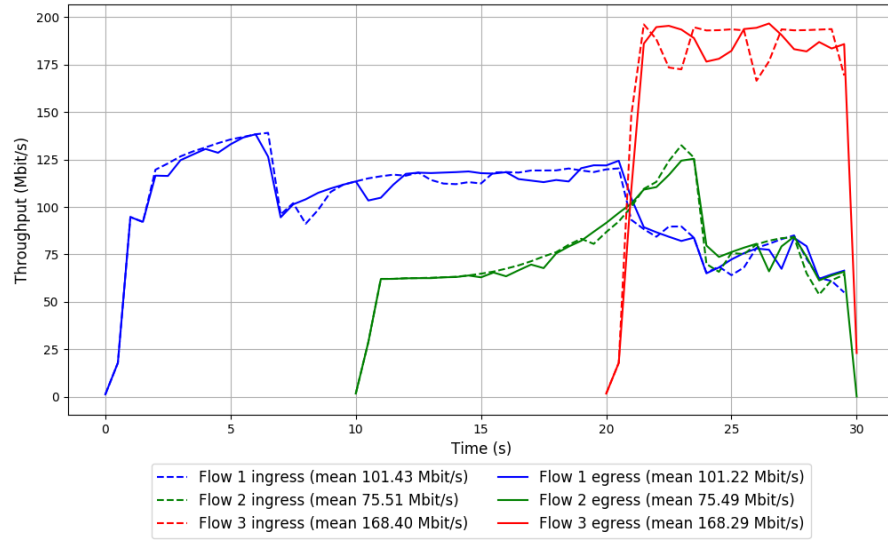
-- Flow 3:

Average throughput: 168.29 Mbit/s

95th percentile per-packet one-way delay: 71.181 ms

Loss rate: 0.04%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-01-03 11:13:32

End at: 2018-01-03 11:14:02

Below is generated by plot.py at 2018-01-03 12:52:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 218.96 Mbit/s

95th percentile per-packet one-way delay: 71.265 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 91.64 Mbit/s

95th percentile per-packet one-way delay: 70.556 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 136.55 Mbit/s

95th percentile per-packet one-way delay: 71.387 ms

Loss rate: 0.00%

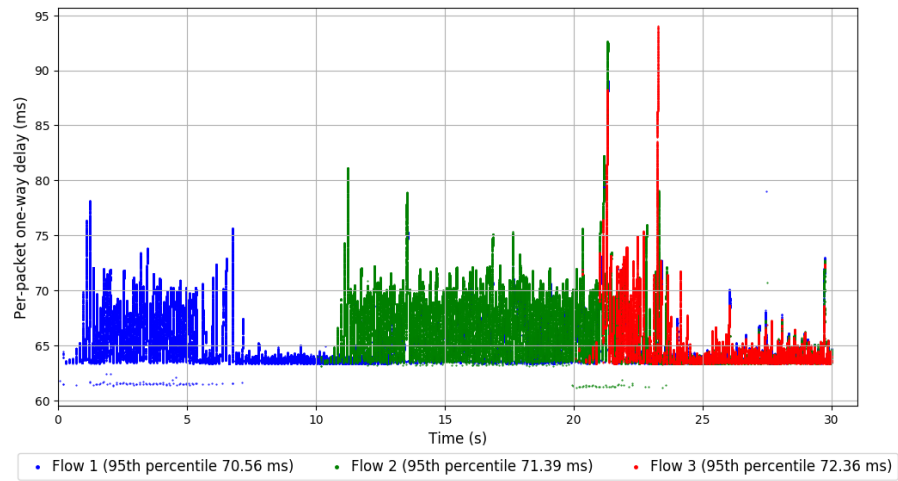
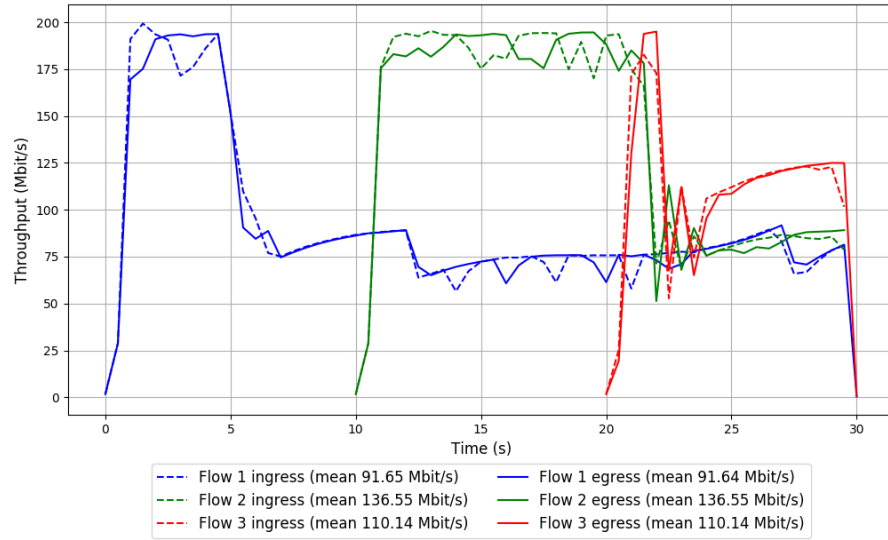
-- Flow 3:

Average throughput: 110.14 Mbit/s

95th percentile per-packet one-way delay: 72.355 ms

Loss rate: 0.00%

Run 10: Report of TCP Cubic — Data Link

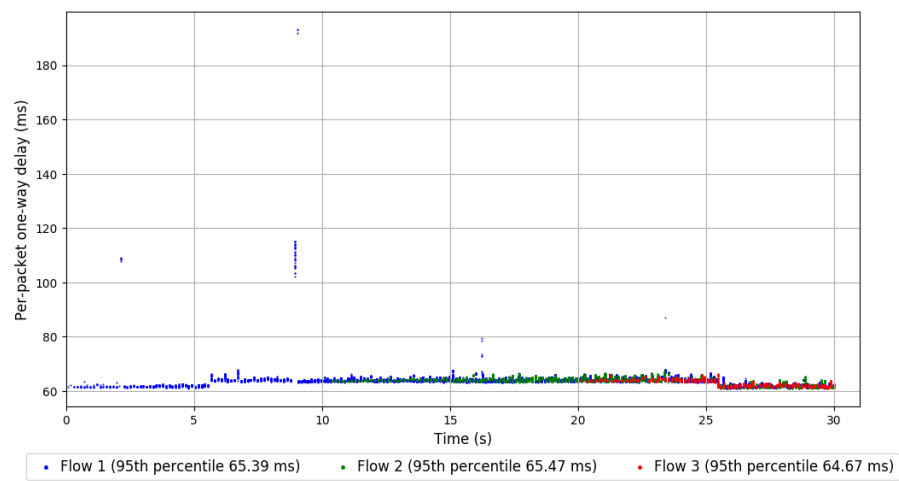
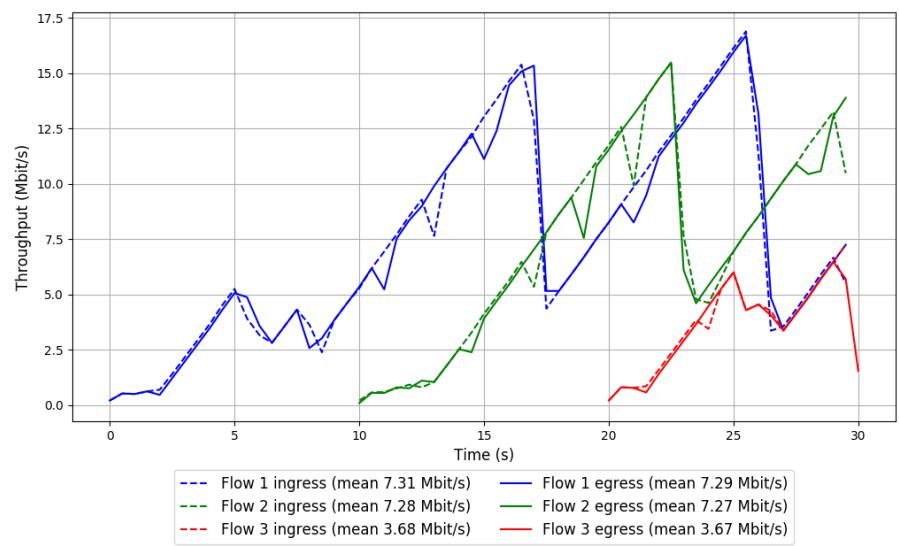


```
Run 1: Statistics of LEDBAT

Start at: 2018-01-03 09:03:46
End at: 2018-01-03 09:04:16

# Below is generated by plot.py at 2018-01-03 12:52:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 13.31 Mbit/s
95th percentile per-packet one-way delay: 65.361 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 7.29 Mbit/s
95th percentile per-packet one-way delay: 65.385 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 7.27 Mbit/s
95th percentile per-packet one-way delay: 65.469 ms
Loss rate: 0.16%
-- Flow 3:
Average throughput: 3.67 Mbit/s
95th percentile per-packet one-way delay: 64.672 ms
Loss rate: 0.29%
```


Run 1: Report of LEDBAT — Data Link

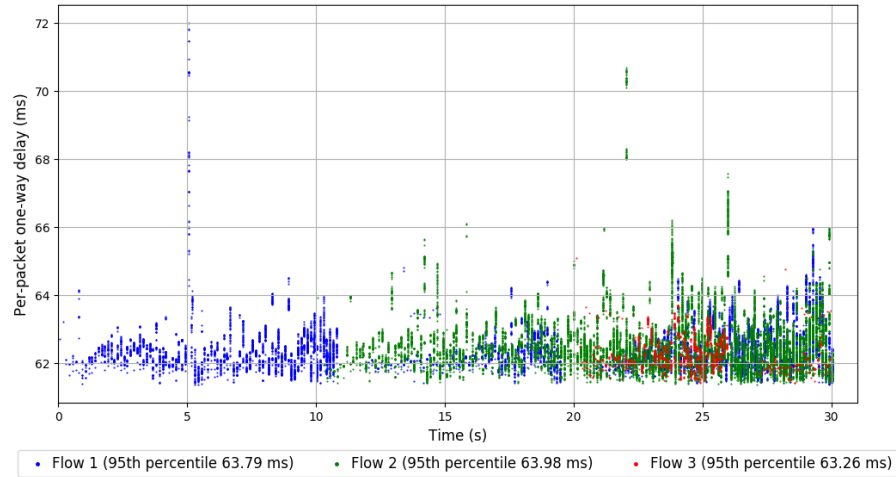
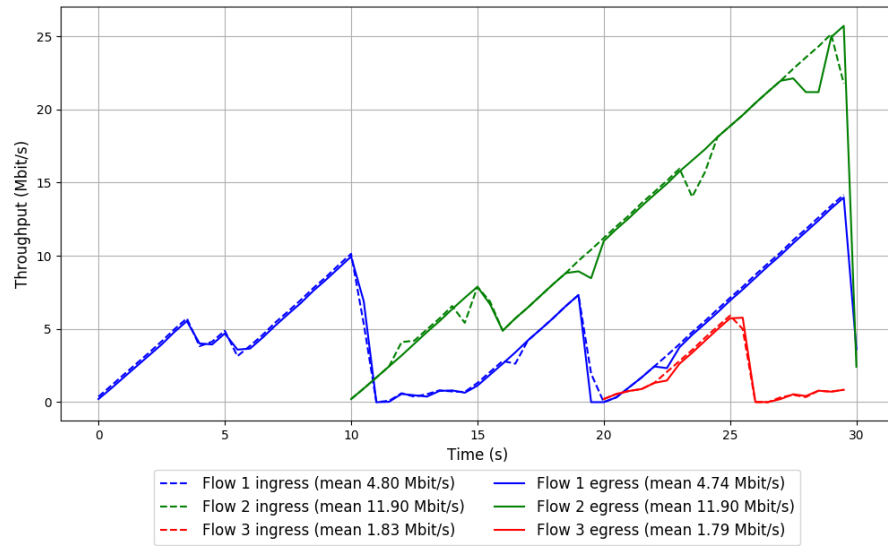


```
Run 2: Statistics of LEDBAT

Start at: 2018-01-03 09:16:12
End at: 2018-01-03 09:16:42

# Below is generated by plot.py at 2018-01-03 12:52:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 13.26 Mbit/s
95th percentile per-packet one-way delay: 63.883 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 4.74 Mbit/s
95th percentile per-packet one-way delay: 63.791 ms
Loss rate: 1.18%
-- Flow 2:
Average throughput: 11.90 Mbit/s
95th percentile per-packet one-way delay: 63.984 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 1.79 Mbit/s
95th percentile per-packet one-way delay: 63.260 ms
Loss rate: 2.08%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-01-03 09:29:10

End at: 2018-01-03 09:29:40

Below is generated by plot.py at 2018-01-03 12:52:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 11.26 Mbit/s

95th percentile per-packet one-way delay: 64.463 ms

Loss rate: 0.86%

-- Flow 1:

Average throughput: 4.53 Mbit/s

95th percentile per-packet one-way delay: 64.389 ms

Loss rate: 1.98%

-- Flow 2:

Average throughput: 7.88 Mbit/s

95th percentile per-packet one-way delay: 64.578 ms

Loss rate: 0.01%

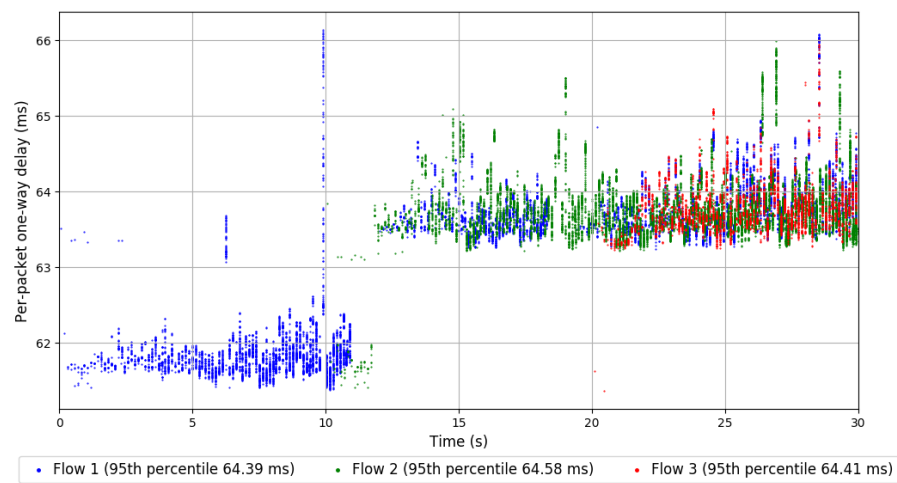
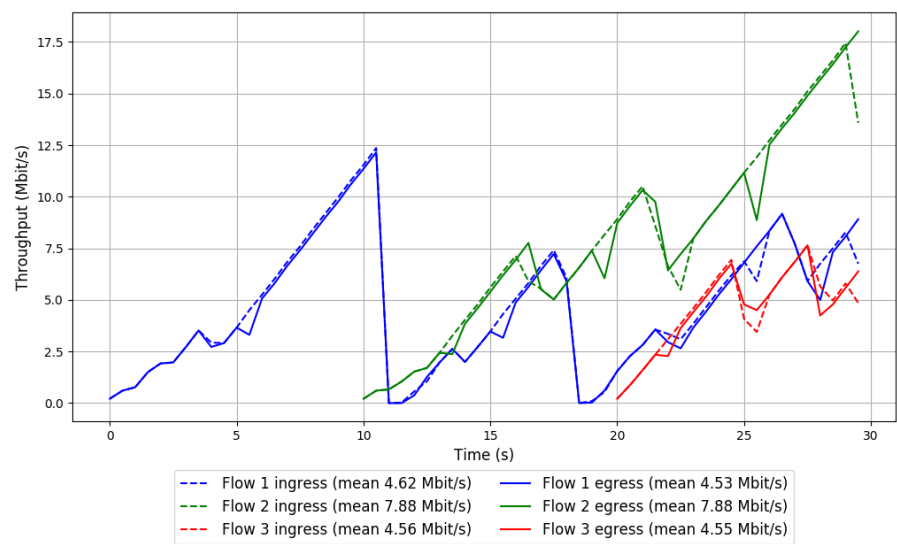
-- Flow 3:

Average throughput: 4.55 Mbit/s

95th percentile per-packet one-way delay: 64.411 ms

Loss rate: 0.37%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-01-03 09:42:37

End at: 2018-01-03 09:43:07

Below is generated by plot.py at 2018-01-03 12:52:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 18.47 Mbit/s

95th percentile per-packet one-way delay: 64.033 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 11.59 Mbit/s

95th percentile per-packet one-way delay: 64.097 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 6.58 Mbit/s

95th percentile per-packet one-way delay: 63.984 ms

Loss rate: 0.19%

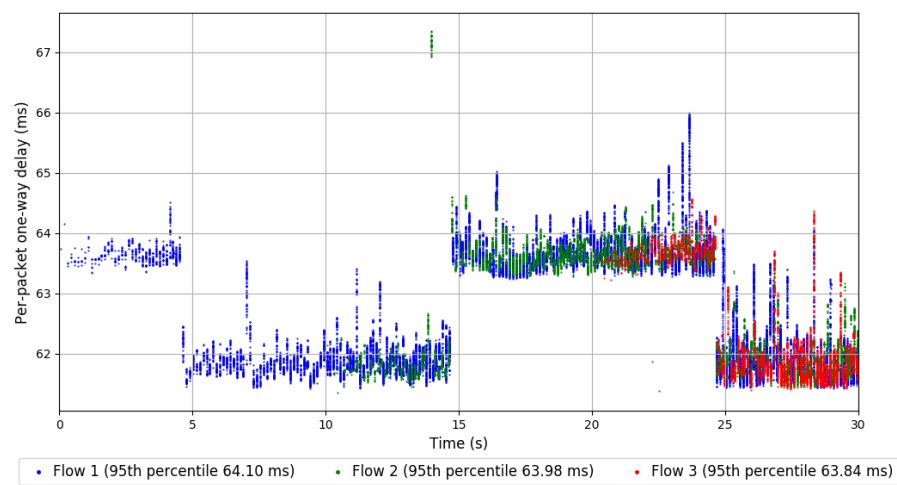
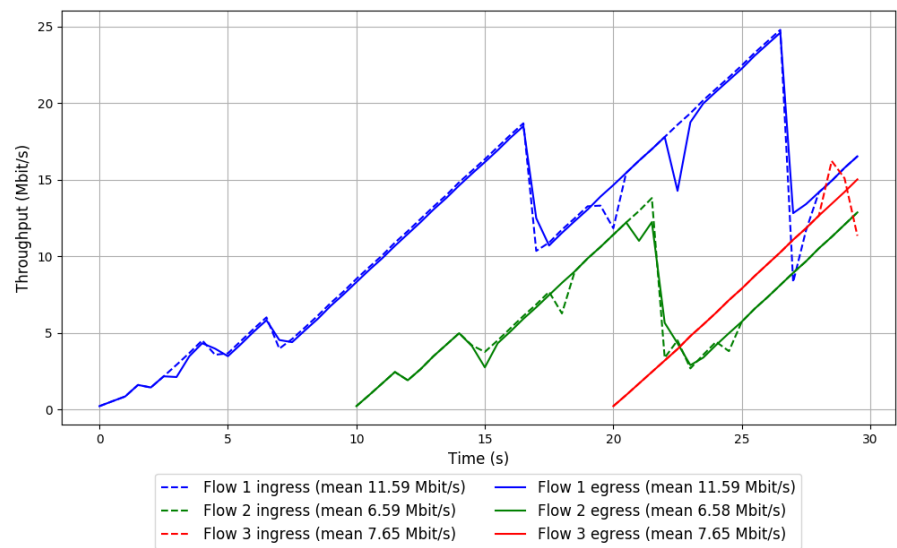
-- Flow 3:

Average throughput: 7.65 Mbit/s

95th percentile per-packet one-way delay: 63.839 ms

Loss rate: 0.00%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-01-03 09:56:40

End at: 2018-01-03 09:57:10

Below is generated by plot.py at 2018-01-03 12:52:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 14.57 Mbit/s

95th percentile per-packet one-way delay: 64.201 ms

Loss rate: 0.43%

-- Flow 1:

Average throughput: 7.53 Mbit/s

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

Loss rate: 0.81%

-- Flow 2:

Average throughput: 7.03 Mbit/s

95th percentile per-packet one-way delay: 64.253 ms

Loss rate: 0.02%

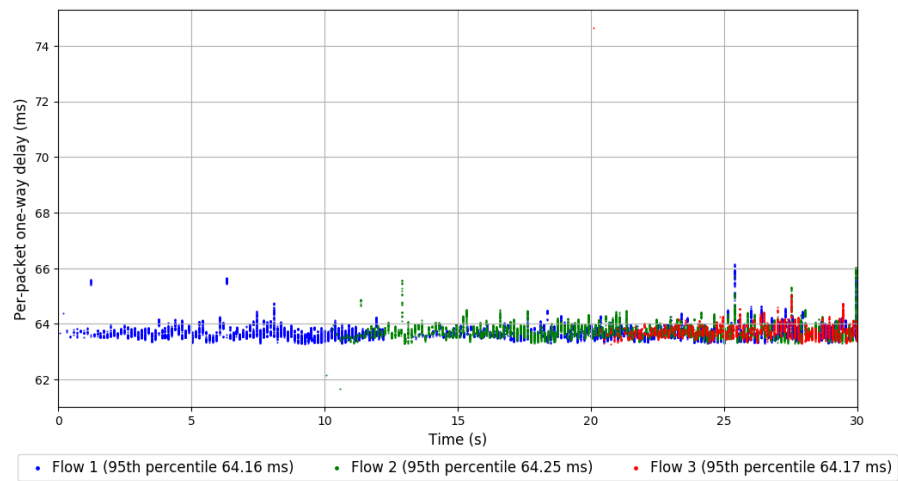
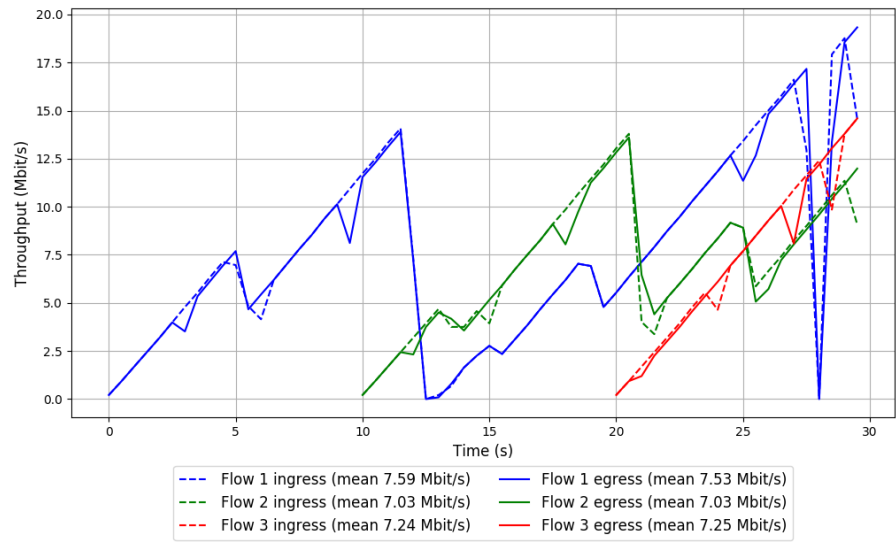
-- Flow 3:

Average throughput: 7.25 Mbit/s

95th percentile per-packet one-way delay: 64.173 ms

Loss rate: 0.00%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-01-03 10:10:13

End at: 2018-01-03 10:10:43

Below is generated by plot.py at 2018-01-03 12:52:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 17.25 Mbit/s

95th percentile per-packet one-way delay: 64.191 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 8.46 Mbit/s

95th percentile per-packet one-way delay: 64.271 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 10.07 Mbit/s

95th percentile per-packet one-way delay: 64.073 ms

Loss rate: 0.00%

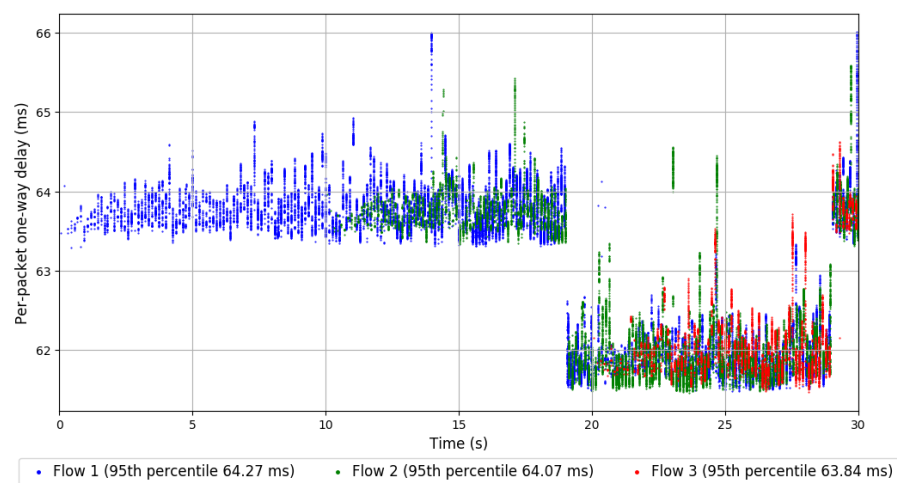
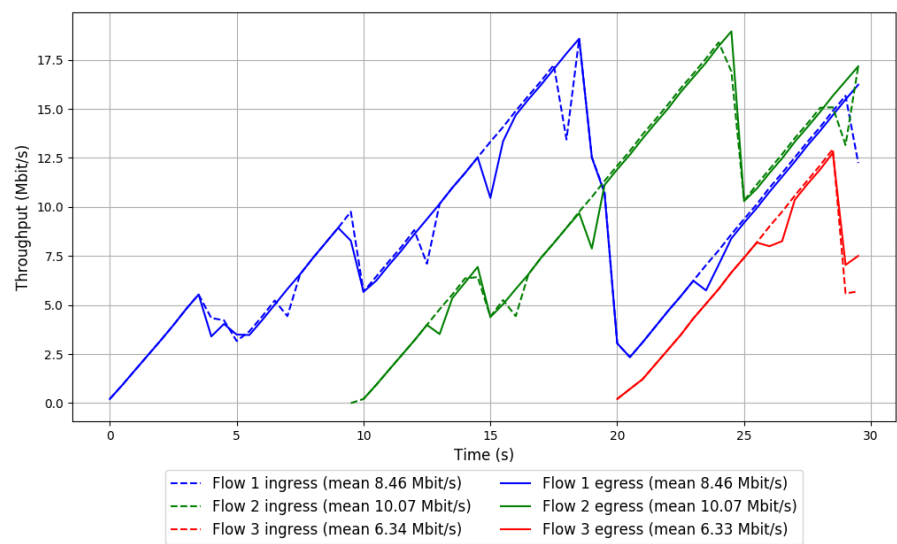
-- Flow 3:

Average throughput: 6.33 Mbit/s

95th percentile per-packet one-way delay: 63.844 ms

Loss rate: 0.04%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-01-03 10:24:37

End at: 2018-01-03 10:25:07

Below is generated by plot.py at 2018-01-03 12:52:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 12.78 Mbit/s

95th percentile per-packet one-way delay: 64.158 ms

Loss rate: 0.62%

-- Flow 1:

Average throughput: 6.08 Mbit/s

95th percentile per-packet one-way delay: 64.170 ms

Loss rate: 0.98%

-- Flow 2:

Average throughput: 8.76 Mbit/s

95th percentile per-packet one-way delay: 64.144 ms

Loss rate: 0.01%

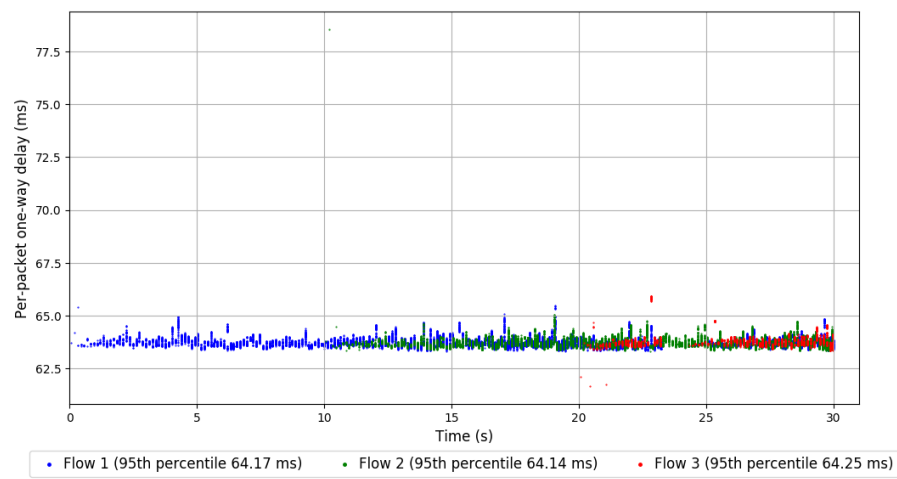
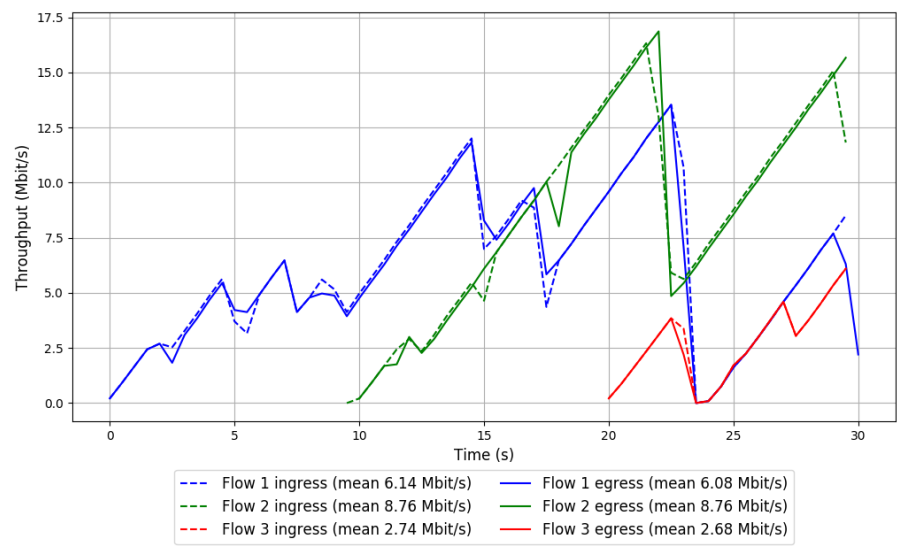
-- Flow 3:

Average throughput: 2.68 Mbit/s

95th percentile per-packet one-way delay: 64.247 ms

Loss rate: 2.16%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-01-03 10:38:49

End at: 2018-01-03 10:39:19

Below is generated by plot.py at 2018-01-03 12:52:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.60 Mbit/s

95th percentile per-packet one-way delay: 64.209 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 9.81 Mbit/s

95th percentile per-packet one-way delay: 64.225 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 5.39 Mbit/s

95th percentile per-packet one-way delay: 64.205 ms

Loss rate: 0.19%

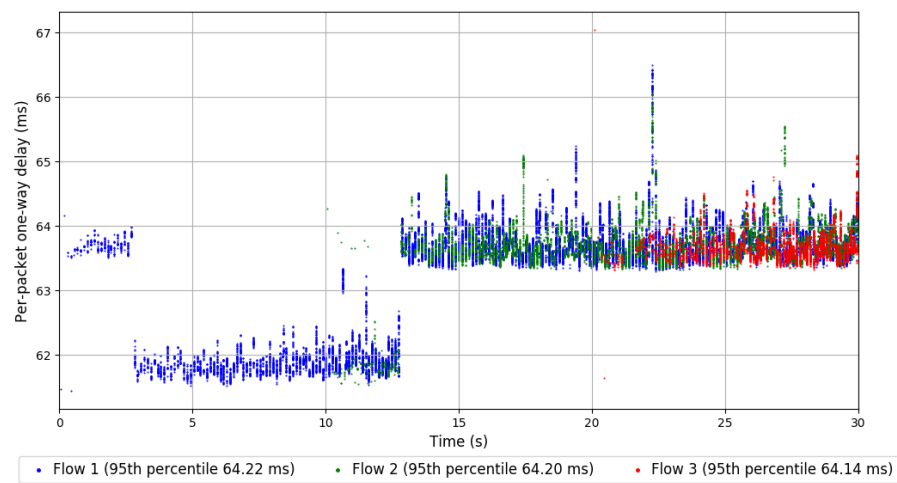
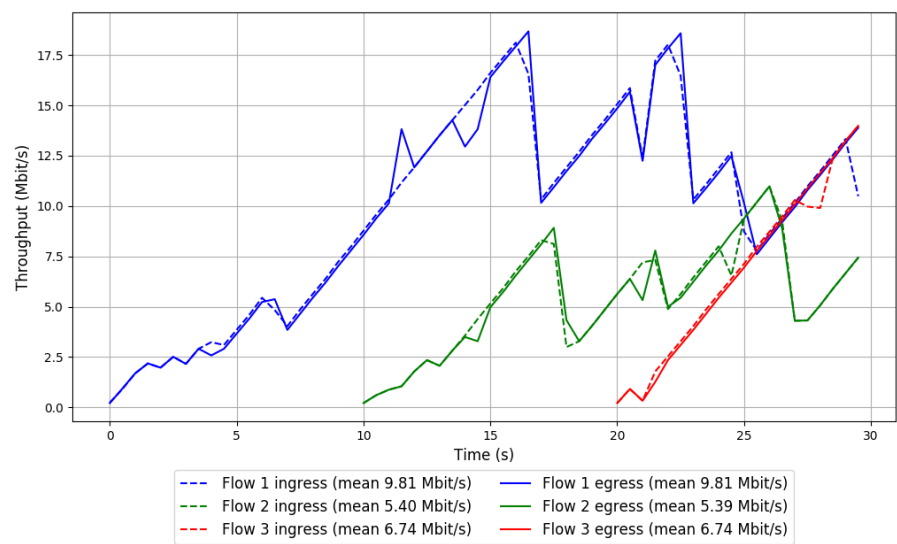
-- Flow 3:

Average throughput: 6.74 Mbit/s

95th percentile per-packet one-way delay: 64.136 ms

Loss rate: 0.00%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-01-03 10:52:49

End at: 2018-01-03 10:53:19

Below is generated by plot.py at 2018-01-03 12:52:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.77 Mbit/s

95th percentile per-packet one-way delay: 63.984 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 7.20 Mbit/s

95th percentile per-packet one-way delay: 64.018 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 9.19 Mbit/s

95th percentile per-packet one-way delay: 64.013 ms

Loss rate: 0.00%

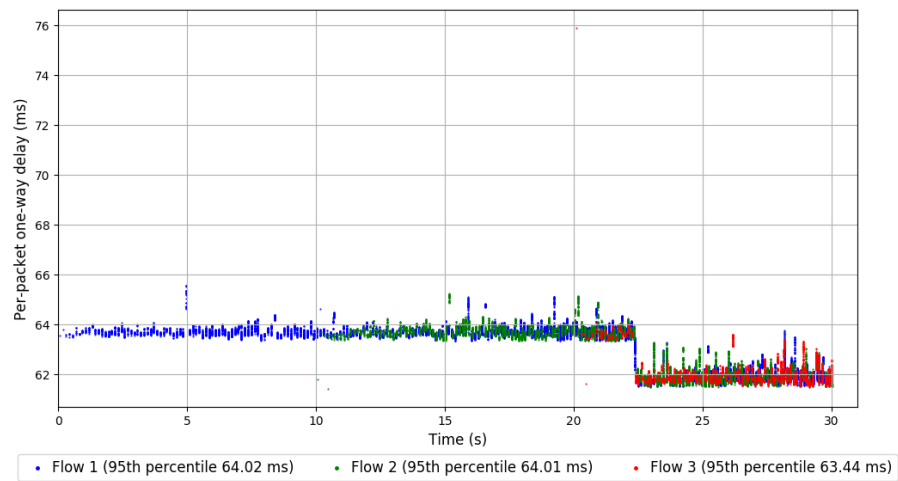
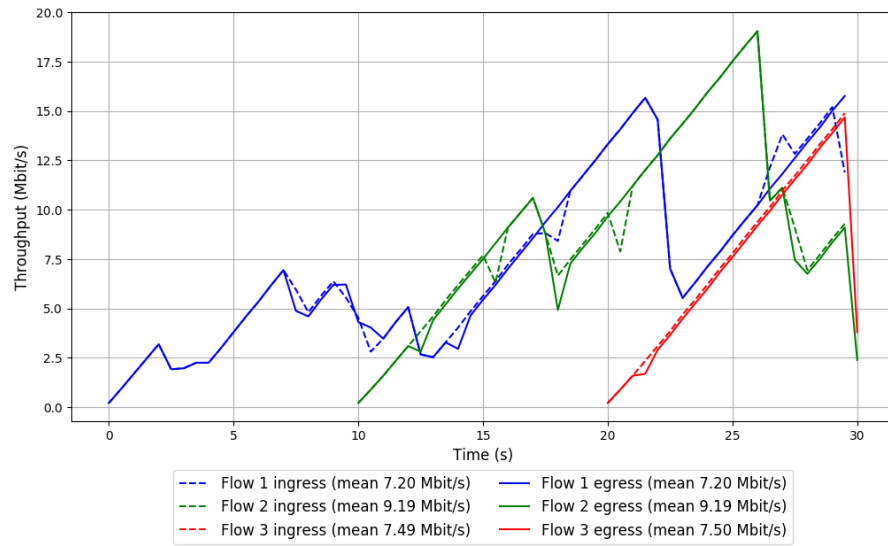
-- Flow 3:

Average throughput: 7.50 Mbit/s

95th percentile per-packet one-way delay: 63.443 ms

Loss rate: 0.00%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-01-03 11:06:50

End at: 2018-01-03 11:07:20

Below is generated by plot.py at 2018-01-03 12:52:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 17.29 Mbit/s

95th percentile per-packet one-way delay: 64.438 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 8.07 Mbit/s

95th percentile per-packet one-way delay: 64.330 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 10.28 Mbit/s

95th percentile per-packet one-way delay: 64.717 ms

Loss rate: 0.00%

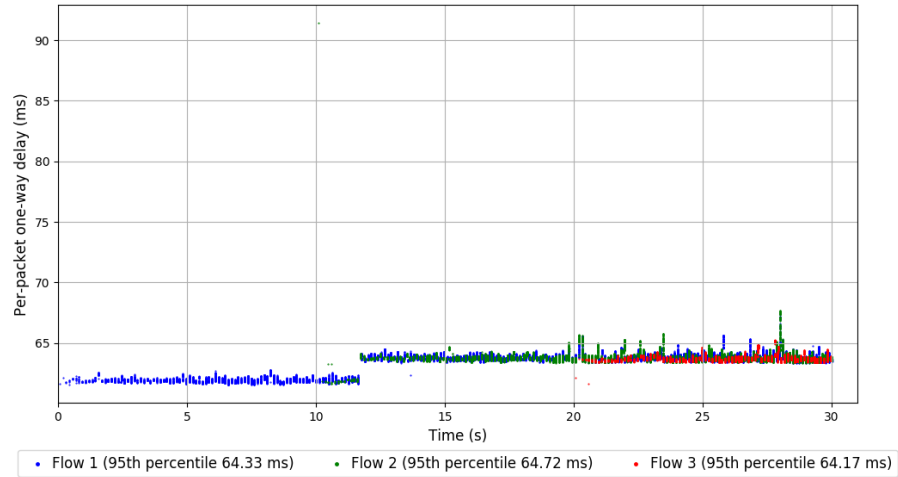
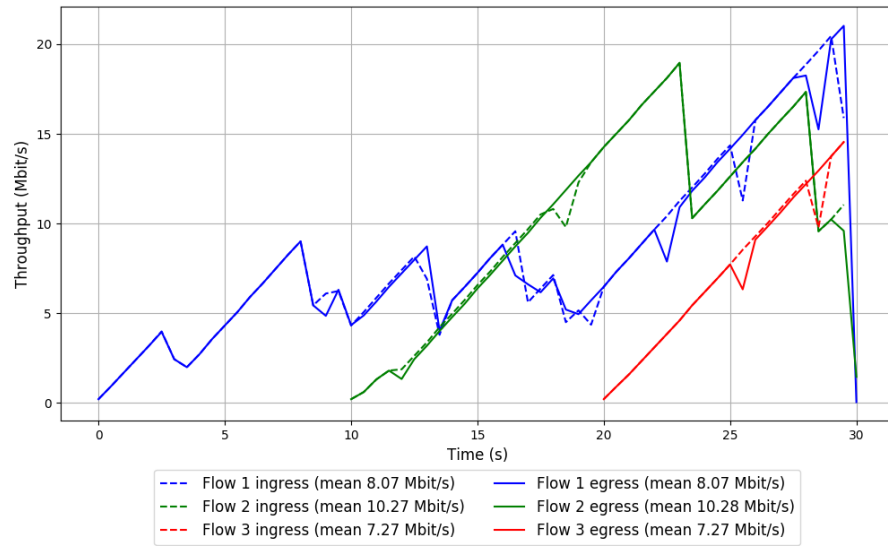
-- Flow 3:

Average throughput: 7.27 Mbit/s

95th percentile per-packet one-way delay: 64.174 ms

Loss rate: 0.00%

Run 10: Report of LEDBAT — Data Link

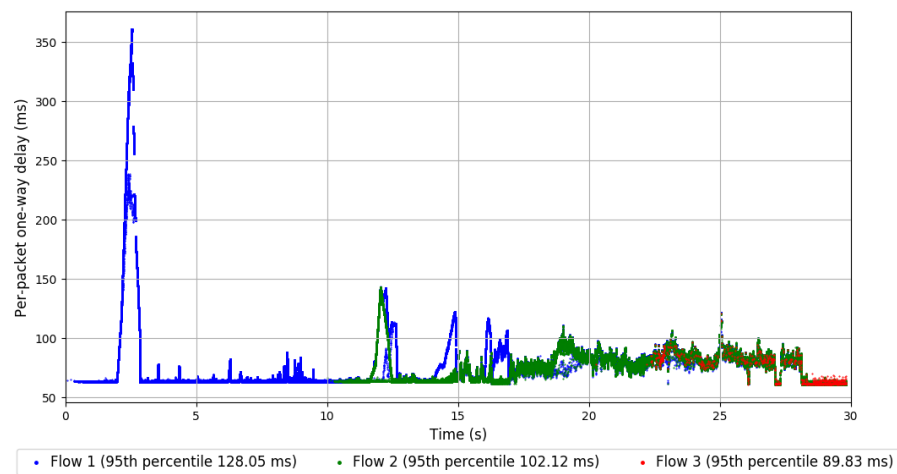
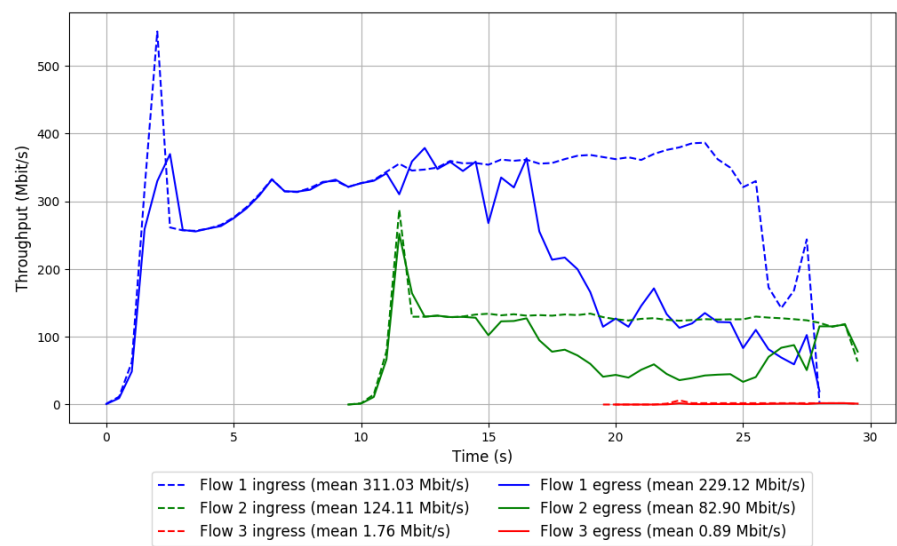


```
Run 1: Statistics of PCC

Start at: 2018-01-03 08:59:52
End at: 2018-01-03 09:00:23

# Below is generated by plot.py at 2018-01-03 12:54:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 272.71 Mbit/s
95th percentile per-packet one-way delay: 119.615 ms
Loss rate: 27.88%
-- Flow 1:
Average throughput: 229.12 Mbit/s
95th percentile per-packet one-way delay: 128.051 ms
Loss rate: 26.34%
-- Flow 2:
Average throughput: 82.90 Mbit/s
95th percentile per-packet one-way delay: 102.123 ms
Loss rate: 33.22%
-- Flow 3:
Average throughput: 0.89 Mbit/s
95th percentile per-packet one-way delay: 89.828 ms
Loss rate: 50.63%
```

Run 1: Report of PCC — Data Link

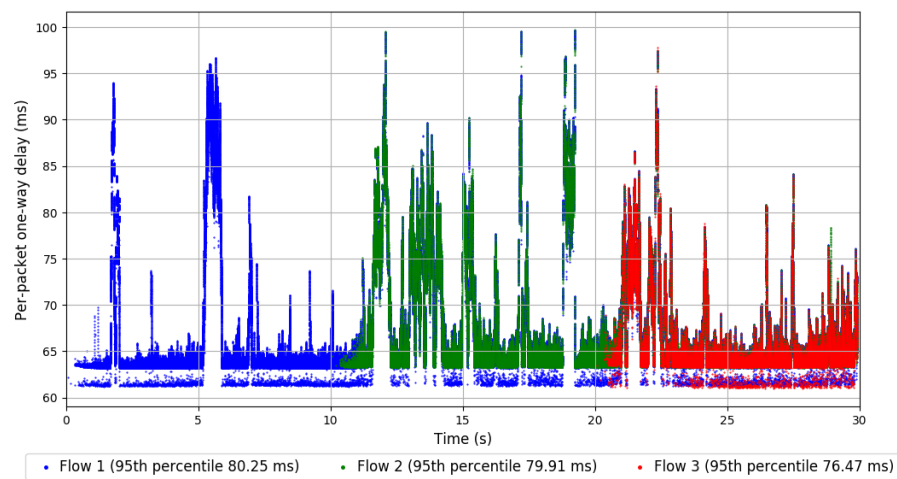
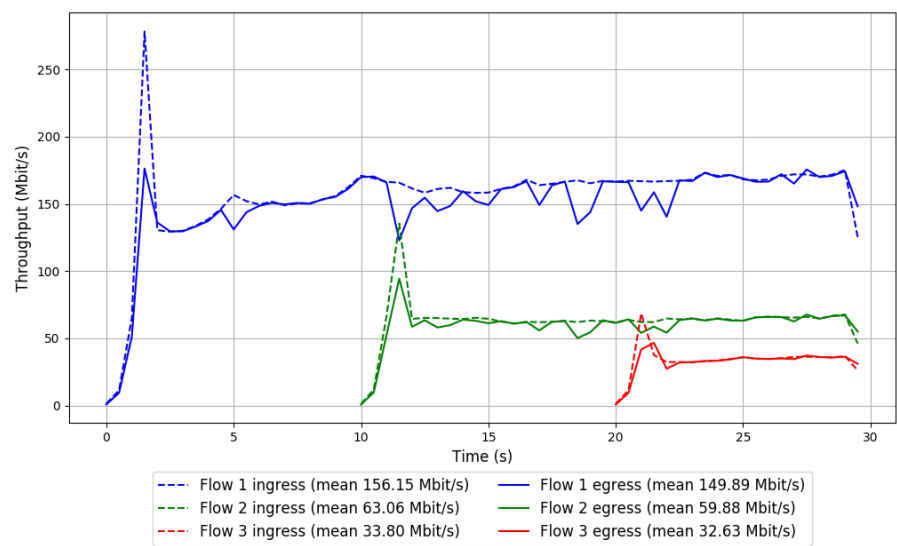


```
Run 2: Statistics of PCC

Start at: 2018-01-03 09:12:12
End at: 2018-01-03 09:12:42

# Below is generated by plot.py at 2018-01-03 12:54:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 200.41 Mbit/s
95th percentile per-packet one-way delay: 79.936 ms
Loss rate: 4.18%
-- Flow 1:
Average throughput: 149.89 Mbit/s
95th percentile per-packet one-way delay: 80.246 ms
Loss rate: 4.00%
-- Flow 2:
Average throughput: 59.88 Mbit/s
95th percentile per-packet one-way delay: 79.908 ms
Loss rate: 5.03%
-- Flow 3:
Average throughput: 32.63 Mbit/s
95th percentile per-packet one-way delay: 76.465 ms
Loss rate: 3.41%
```

Run 2: Report of PCC — Data Link

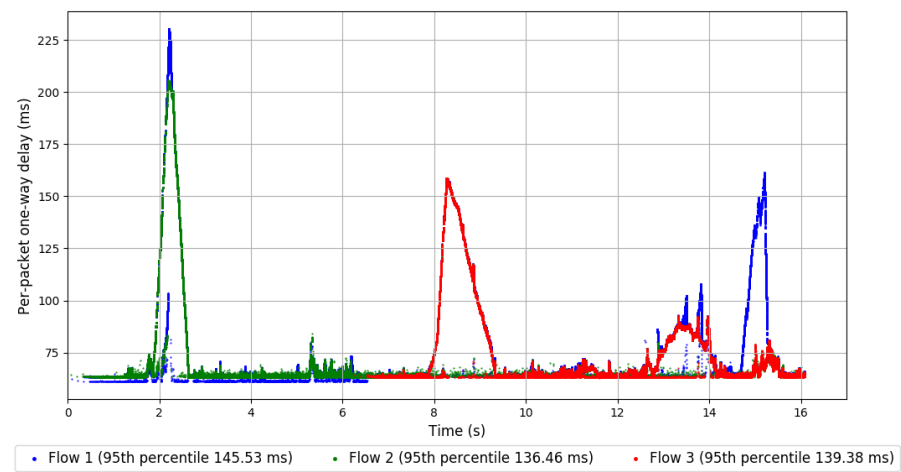
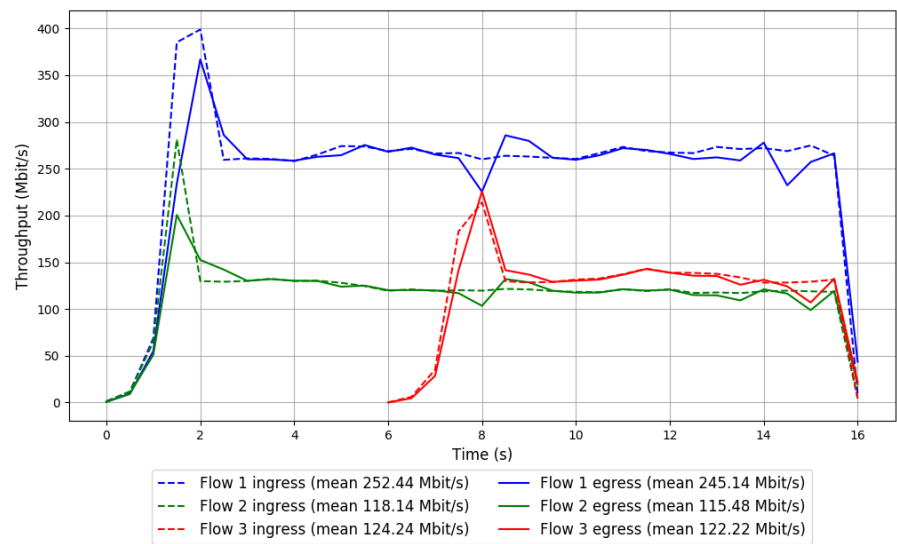


Run 3: Statistics of PCC

Start at: 2018-01-03 09:24:58

End at: 2018-01-03 09:25:28

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2018-01-03 09:38:22

End at: 2018-01-03 09:38:52

Below is generated by plot.py at 2018-01-03 12:55:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 359.88 Mbit/s

95th percentile per-packet one-way delay: 157.939 ms

Loss rate: 0.64%

-- Flow 1:

Average throughput: 49.95 Mbit/s

95th percentile per-packet one-way delay: 3274.708 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 463.31 Mbit/s

95th percentile per-packet one-way delay: 158.523 ms

Loss rate: 0.66%

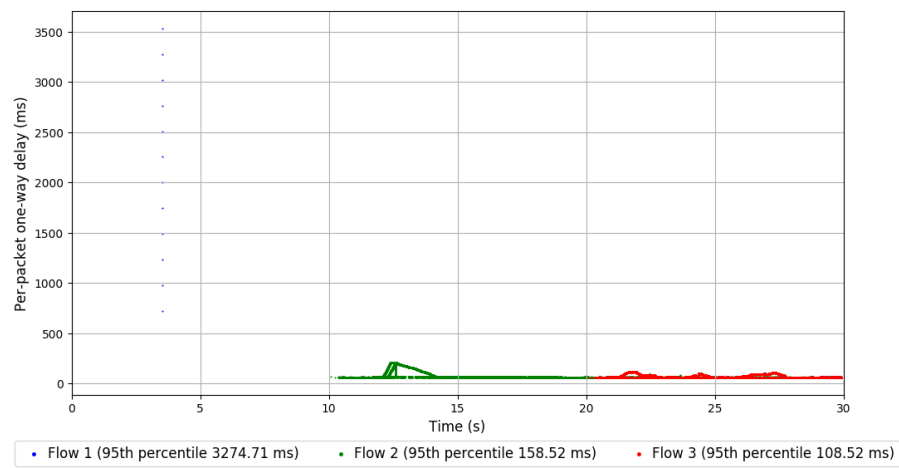
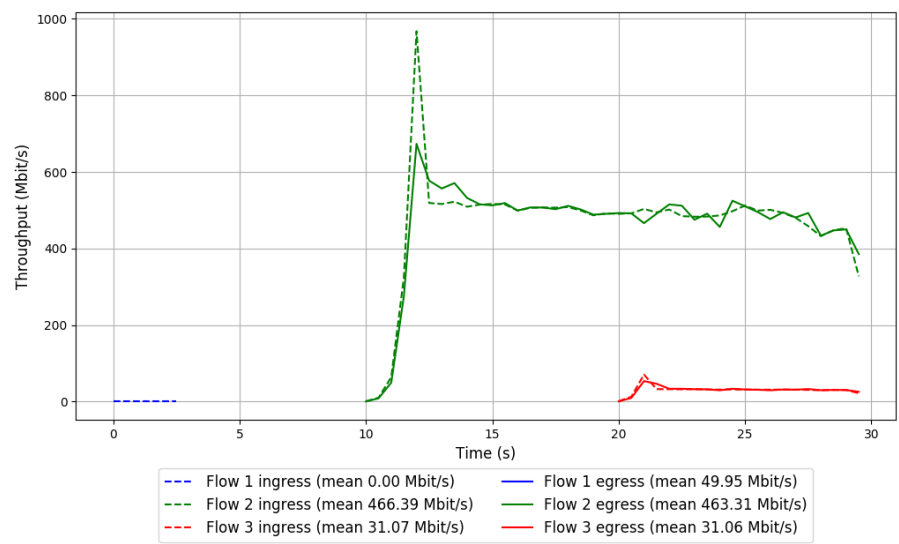
-- Flow 3:

Average throughput: 31.06 Mbit/s

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

Loss rate: 0.00%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2018-01-03 09:52:25

End at: 2018-01-03 09:52:55

Below is generated by plot.py at 2018-01-03 12:55:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 391.04 Mbit/s

95th percentile per-packet one-way delay: 210.929 ms

Loss rate: 4.79%

-- Flow 1:

Average throughput: 54.37 Mbit/s

95th percentile per-packet one-way delay: 4458.792 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 439.21 Mbit/s

95th percentile per-packet one-way delay: 211.775 ms

Loss rate: 4.51%

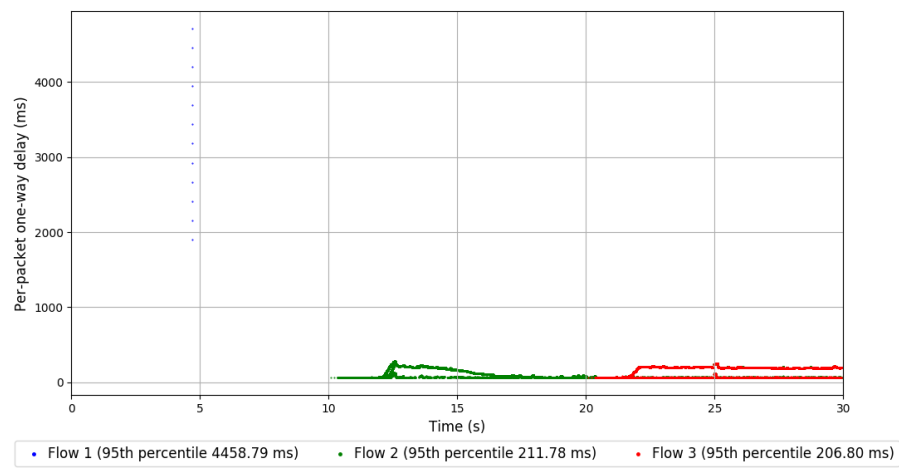
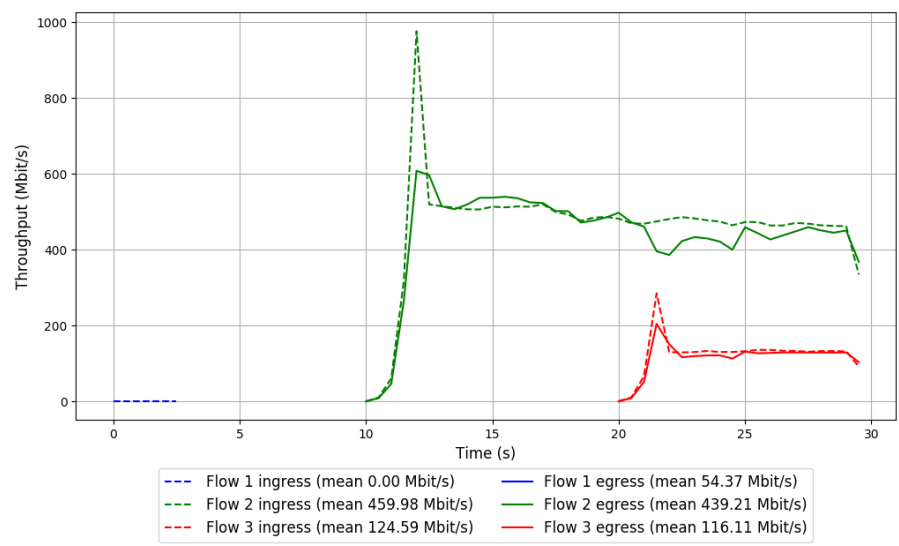
-- Flow 3:

Average throughput: 116.11 Mbit/s

95th percentile per-packet one-way delay: 206.800 ms

Loss rate: 6.81%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2018-01-03 10:05:58

End at: 2018-01-03 10:06:28

Below is generated by plot.py at 2018-01-03 13:00:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 501.12 Mbit/s

95th percentile per-packet one-way delay: 205.240 ms

Loss rate: 1.95%

-- Flow 1:

Average throughput: 460.37 Mbit/s

95th percentile per-packet one-way delay: 205.060 ms

Loss rate: 1.97%

-- Flow 2:

Average throughput: 60.34 Mbit/s

95th percentile per-packet one-way delay: 206.680 ms

Loss rate: 1.72%

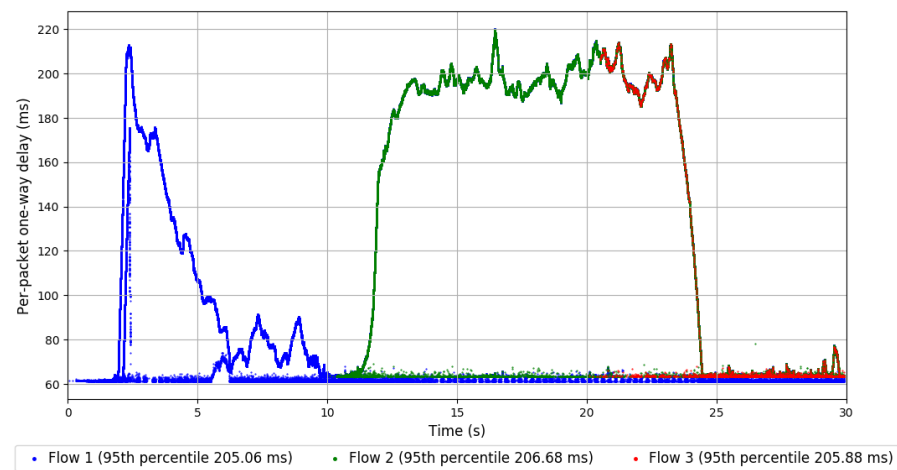
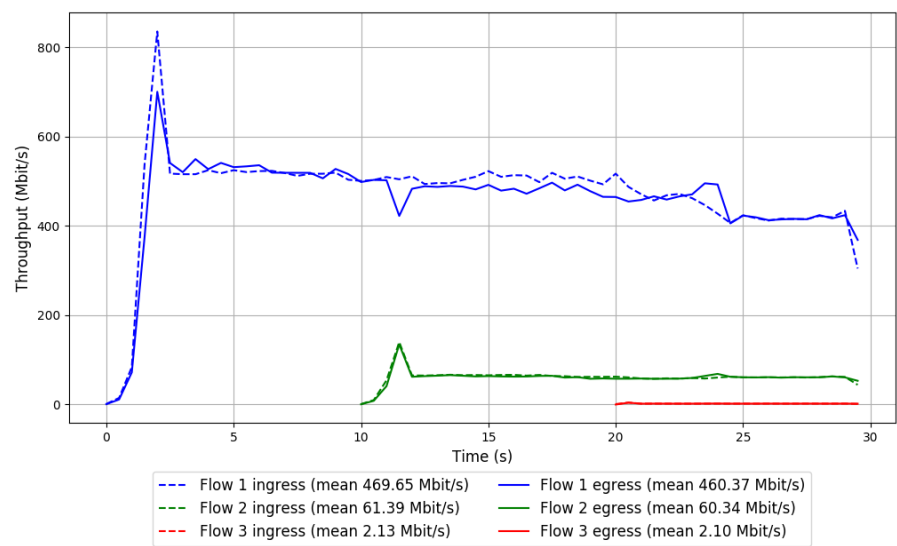
-- Flow 3:

Average throughput: 2.10 Mbit/s

95th percentile per-packet one-way delay: 205.876 ms

Loss rate: 1.26%

Run 6: Report of PCC — Data Link

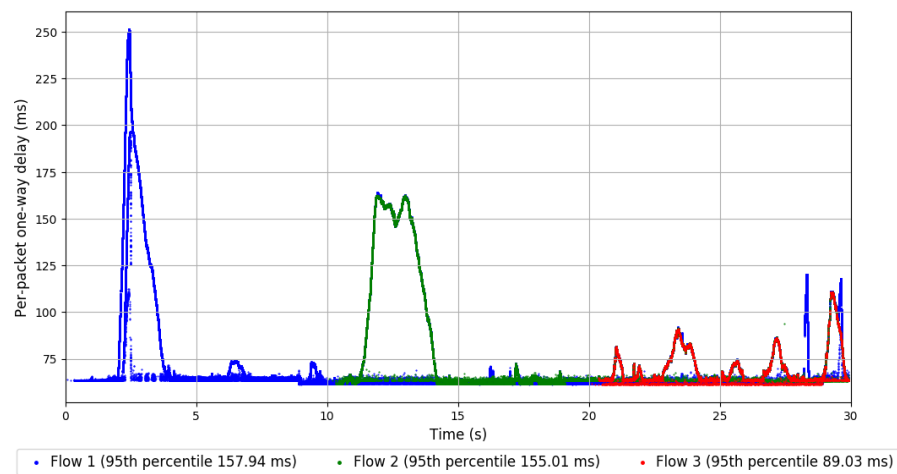
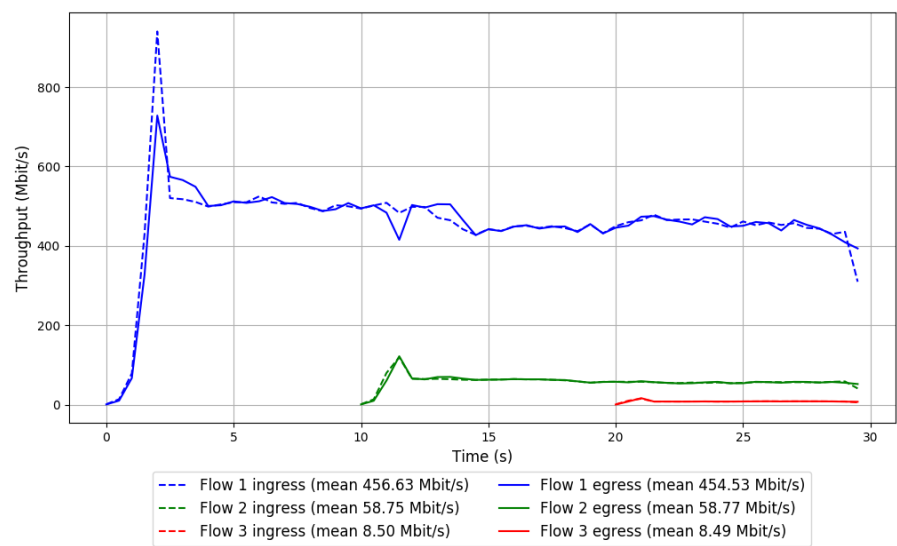


```
Run 7: Statistics of PCC

Start at: 2018-01-03 10:20:12
End at: 2018-01-03 10:20:42

# Below is generated by plot.py at 2018-01-03 13:00:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 496.39 Mbit/s
95th percentile per-packet one-way delay: 157.474 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 454.53 Mbit/s
95th percentile per-packet one-way delay: 157.935 ms
Loss rate: 0.46%
-- Flow 2:
Average throughput: 58.77 Mbit/s
95th percentile per-packet one-way delay: 155.011 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 8.49 Mbit/s
95th percentile per-packet one-way delay: 89.026 ms
Loss rate: 0.00%
```


Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2018-01-03 10:34:28

End at: 2018-01-03 10:34:58

Below is generated by plot.py at 2018-01-03 13:01:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 475.76 Mbit/s

95th percentile per-packet one-way delay: 205.432 ms

Loss rate: 0.73%

-- Flow 1:

Average throughput: 473.37 Mbit/s

95th percentile per-packet one-way delay: 205.455 ms

Loss rate: 0.73%

-- Flow 2:

Average throughput: 2.43 Mbit/s

95th percentile per-packet one-way delay: 171.748 ms

Loss rate: 0.02%

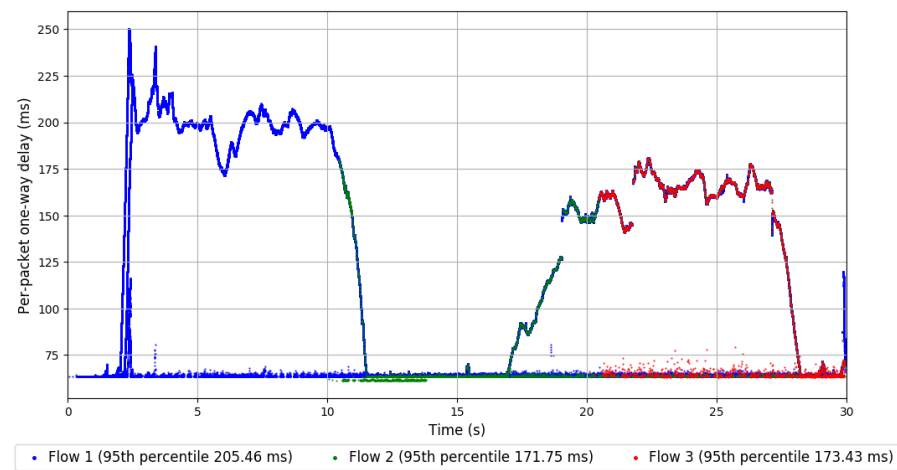
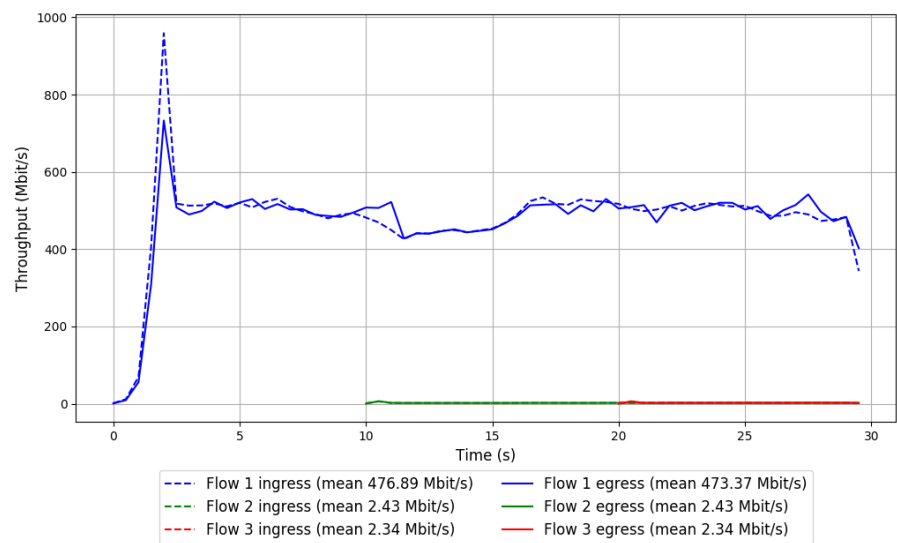
-- Flow 3:

Average throughput: 2.34 Mbit/s

95th percentile per-packet one-way delay: 173.434 ms

Loss rate: 0.00%

Run 8: Report of PCC — Data Link

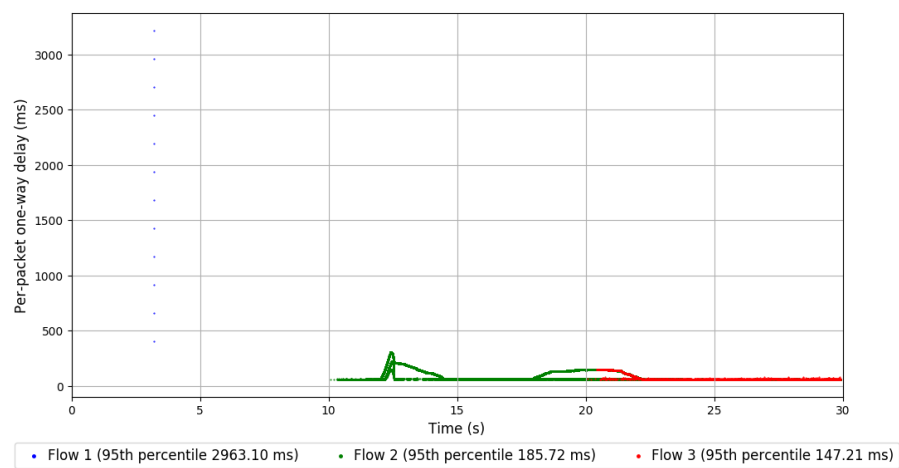
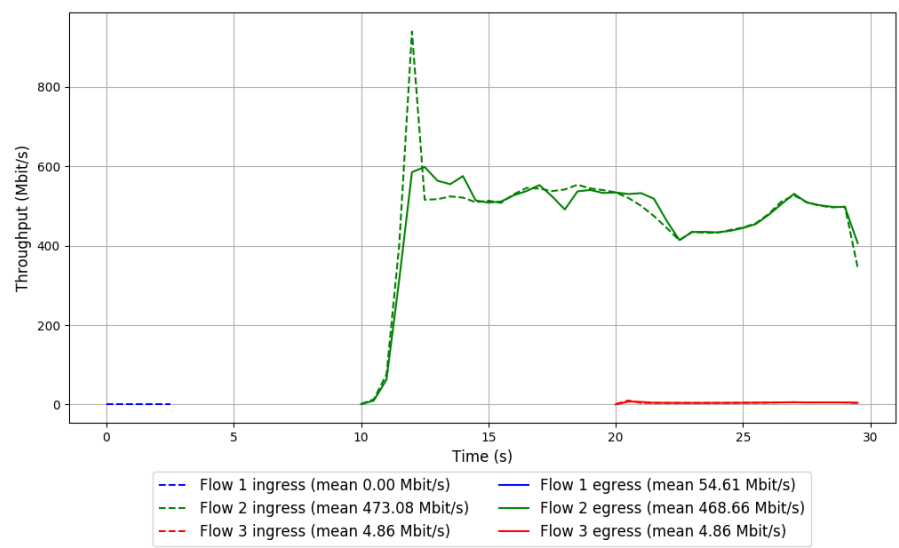


```
Run 9: Statistics of PCC

Start at: 2018-01-03 10:48:37
End at: 2018-01-03 10:49:07

# Below is generated by plot.py at 2018-01-03 13:01:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 350.03 Mbit/s
95th percentile per-packet one-way delay: 185.451 ms
Loss rate: 0.93%
-- Flow 1:
Average throughput: 54.61 Mbit/s
95th percentile per-packet one-way delay: 2963.104 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 468.66 Mbit/s
95th percentile per-packet one-way delay: 185.719 ms
Loss rate: 0.93%
-- Flow 3:
Average throughput: 4.86 Mbit/s
95th percentile per-packet one-way delay: 147.214 ms
Loss rate: 0.03%
```

Run 9: Report of PCC — Data Link

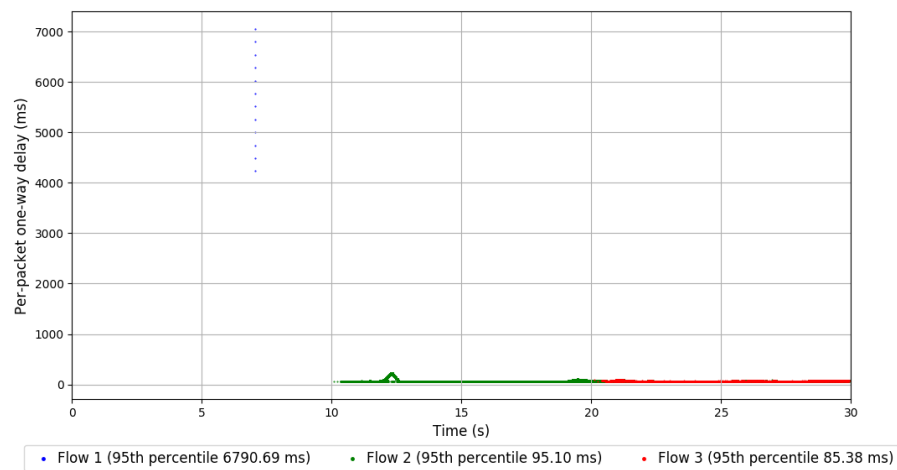
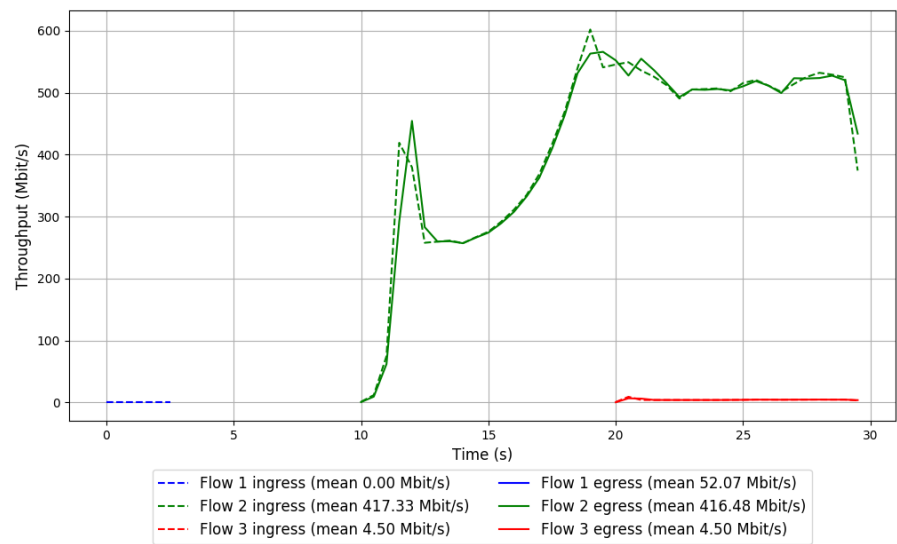


Run 10: Statistics of PCC

Start at: 2018-01-03 11:02:35

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

Run 10: Report of PCC — Data Link

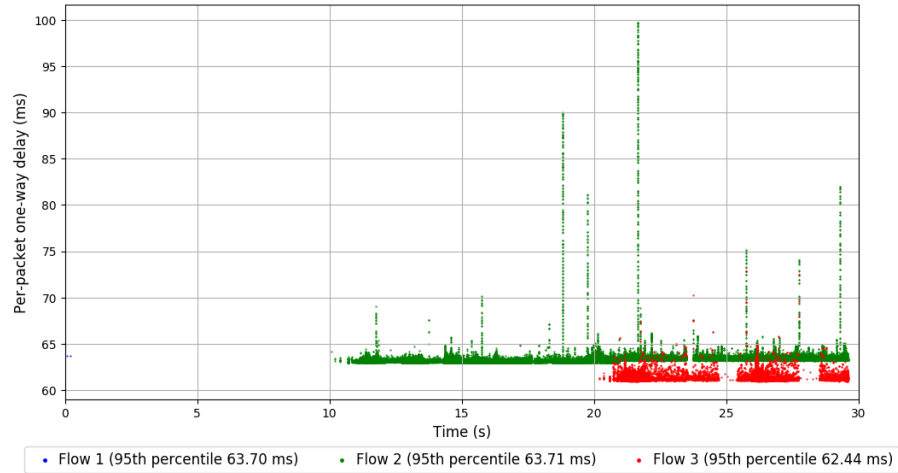
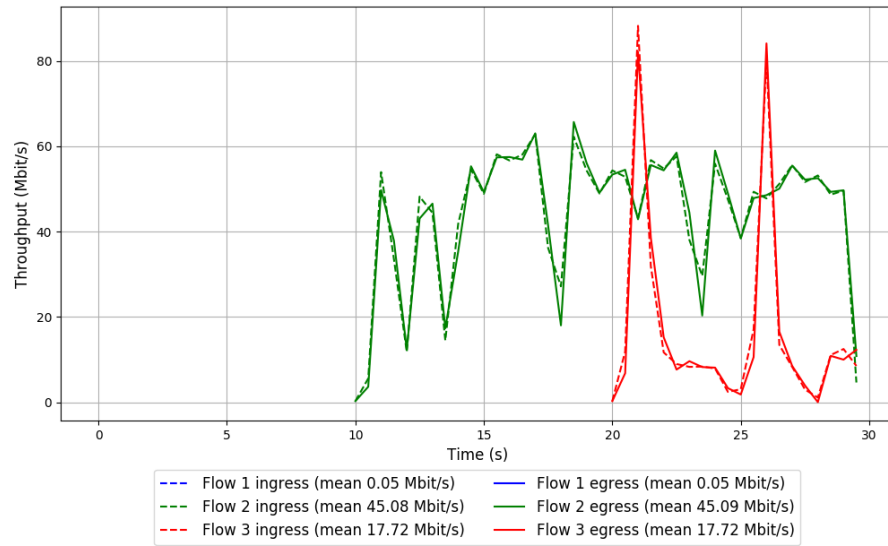


```
Run 1: Statistics of QUIC Cubic

Start at: 2018-01-03 09:01:28
End at: 2018-01-03 09:01:58

# Below is generated by plot.py at 2018-01-03 13:01:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 35.54 Mbit/s
95th percentile per-packet one-way delay: 63.669 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 63.697 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 45.09 Mbit/s
95th percentile per-packet one-way delay: 63.707 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 17.72 Mbit/s
95th percentile per-packet one-way delay: 62.443 ms
Loss rate: 0.00%
```


Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-01-03 09:13:43

End at: 2018-01-03 09:14:13

Below is generated by plot.py at 2018-01-03 13:01:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 73.86 Mbit/s

95th percentile per-packet one-way delay: 63.924 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 34.20 Mbit/s

95th percentile per-packet one-way delay: 63.359 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 49.68 Mbit/s

95th percentile per-packet one-way delay: 63.998 ms

Loss rate: 0.00%

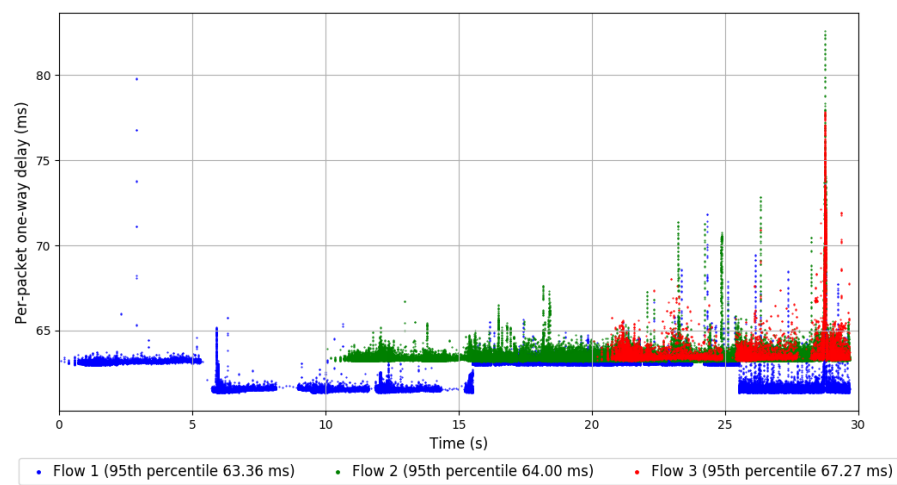
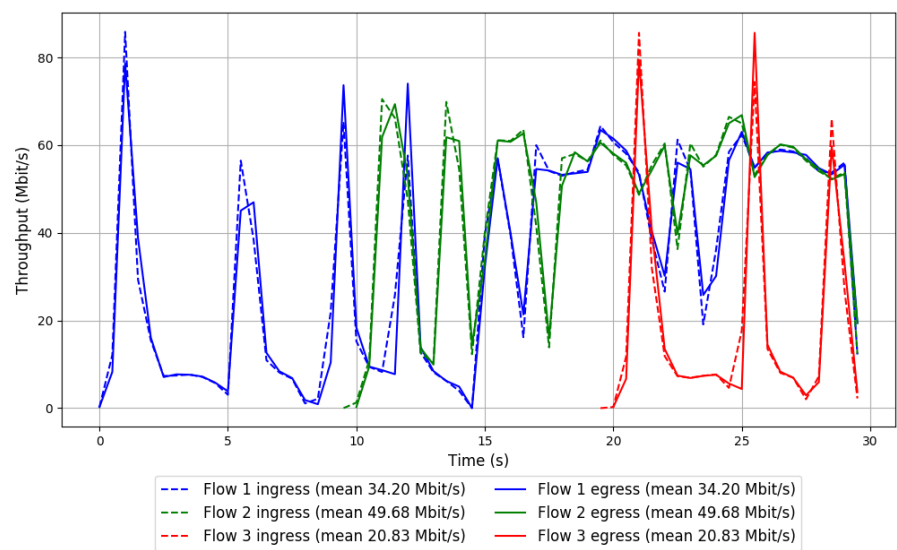
-- Flow 3:

Average throughput: 20.83 Mbit/s

95th percentile per-packet one-way delay: 67.266 ms

Loss rate: 0.00%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-01-03 09:26:31

End at: 2018-01-03 09:27:01

Below is generated by plot.py at 2018-01-03 13:01:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.52 Mbit/s

95th percentile per-packet one-way delay: 63.242 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 54.30 Mbit/s

95th percentile per-packet one-way delay: 61.603 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 52.48 Mbit/s

95th percentile per-packet one-way delay: 63.318 ms

Loss rate: 0.01%

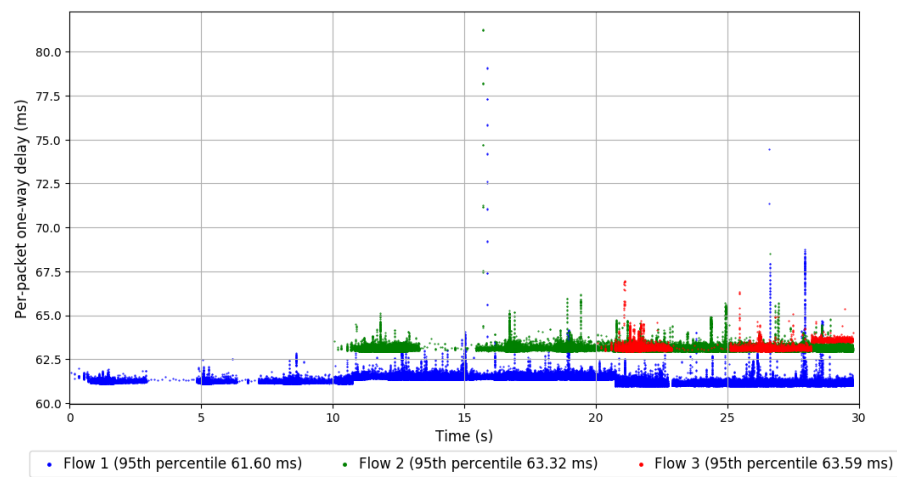
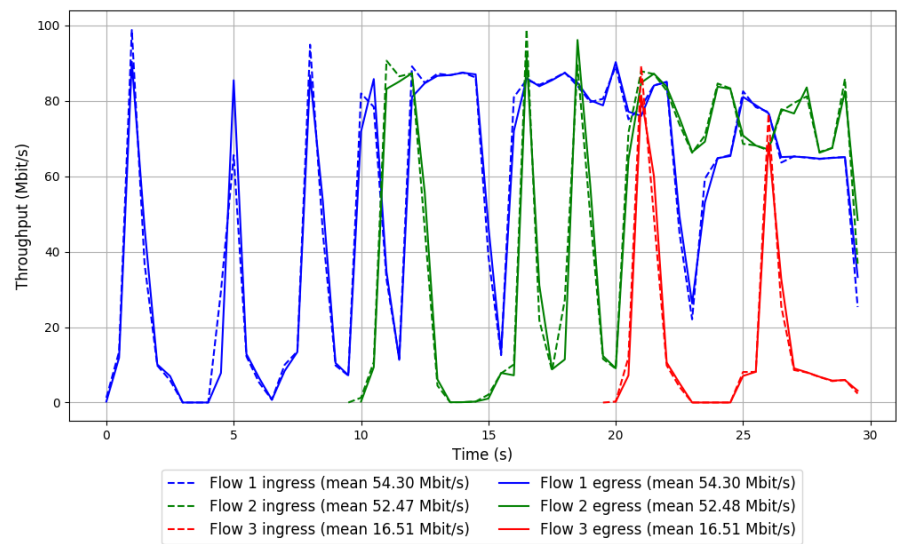
-- Flow 3:

Average throughput: 16.51 Mbit/s

95th percentile per-packet one-way delay: 63.585 ms

Loss rate: 0.00%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-01-03 09:39:57

End at: 2018-01-03 09:40:27

Below is generated by plot.py at 2018-01-03 13:01:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.60 Mbit/s

95th percentile per-packet one-way delay: 63.541 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 49.66 Mbit/s

95th percentile per-packet one-way delay: 63.503 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 44.84 Mbit/s

95th percentile per-packet one-way delay: 63.601 ms

Loss rate: 0.01%

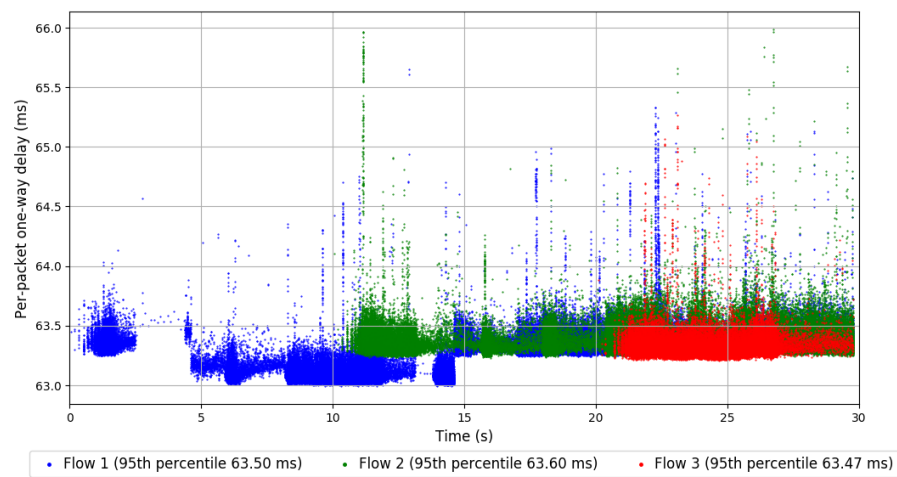
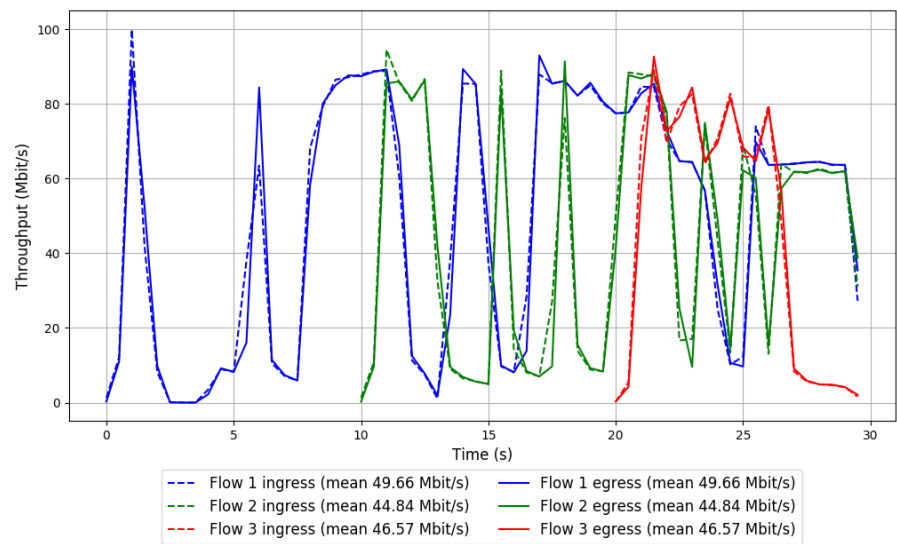
-- Flow 3:

Average throughput: 46.57 Mbit/s

95th percentile per-packet one-way delay: 63.474 ms

Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-01-03 09:54:00

End at: 2018-01-03 09:54:30

Below is generated by plot.py at 2018-01-03 13:01:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 111.20 Mbit/s

95th percentile per-packet one-way delay: 63.356 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 65.14 Mbit/s

95th percentile per-packet one-way delay: 61.605 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 59.81 Mbit/s

95th percentile per-packet one-way delay: 63.320 ms

Loss rate: 0.00%

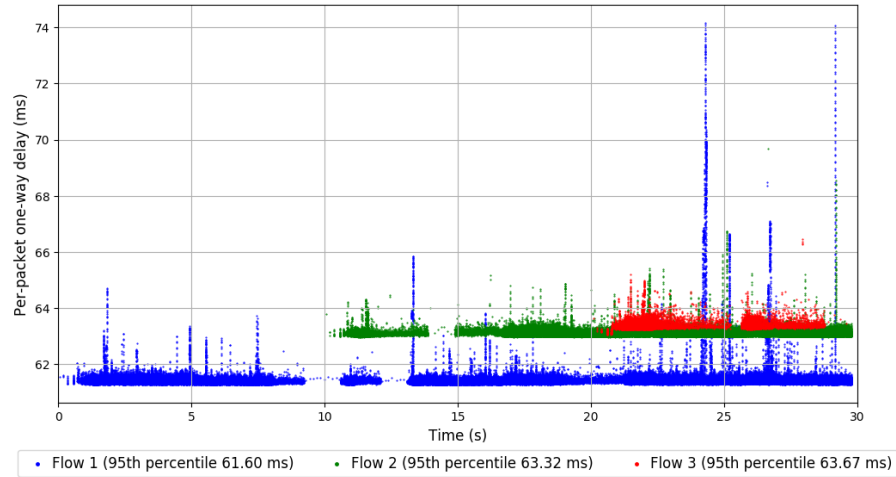
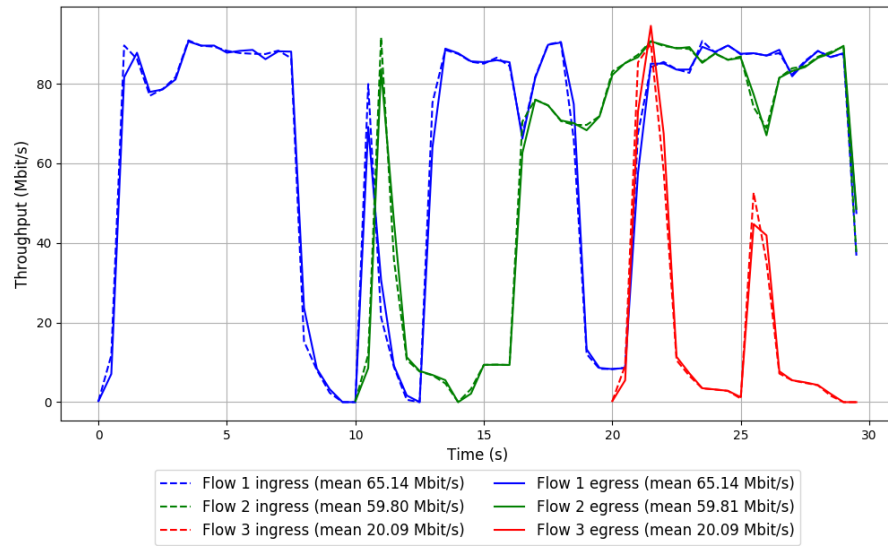
-- Flow 3:

Average throughput: 20.09 Mbit/s

95th percentile per-packet one-way delay: 63.669 ms

Loss rate: 0.00%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-01-03 10:07:40

End at: 2018-01-03 10:08:10

Below is generated by plot.py at 2018-01-03 13:01:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 82.57 Mbit/s

95th percentile per-packet one-way delay: 63.760 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 46.36 Mbit/s

95th percentile per-packet one-way delay: 63.796 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 42.52 Mbit/s

95th percentile per-packet one-way delay: 63.599 ms

Loss rate: 0.00%

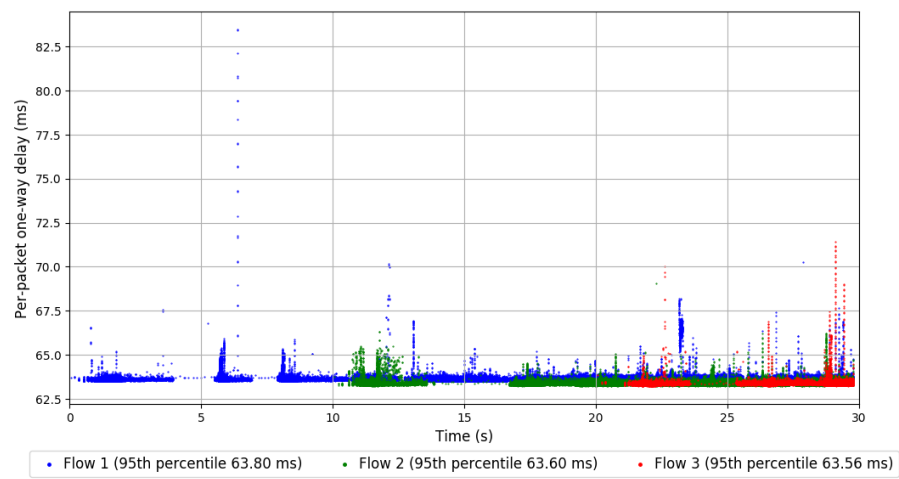
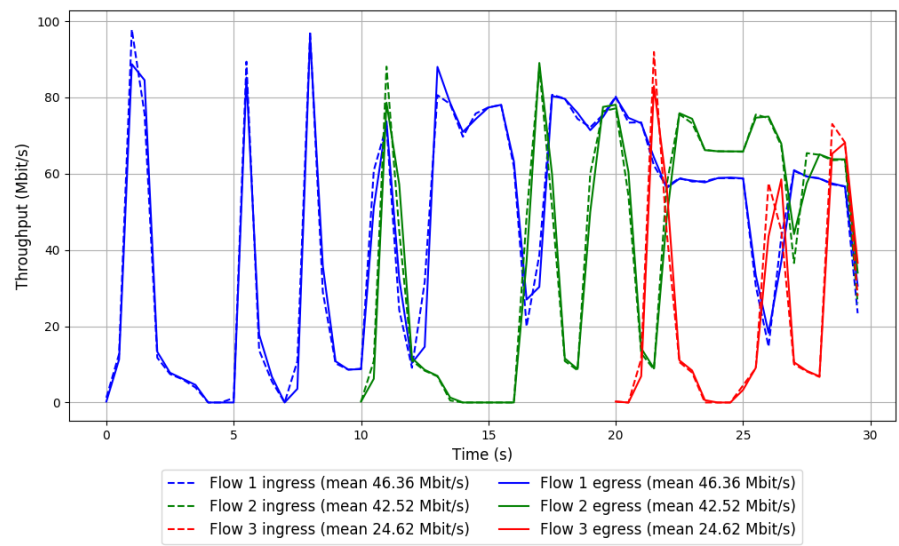
-- Flow 3:

Average throughput: 24.62 Mbit/s

95th percentile per-packet one-way delay: 63.559 ms

Loss rate: 0.00%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-01-03 10:21:54

End at: 2018-01-03 10:22:24

Below is generated by plot.py at 2018-01-03 13:01:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.60 Mbit/s

95th percentile per-packet one-way delay: 63.720 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 42.53 Mbit/s

95th percentile per-packet one-way delay: 63.505 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 48.55 Mbit/s

95th percentile per-packet one-way delay: 63.799 ms

Loss rate: 0.00%

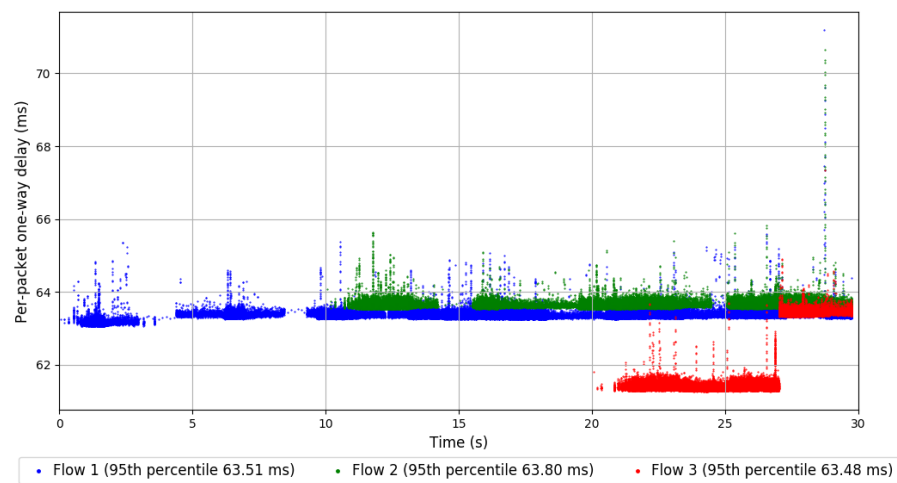
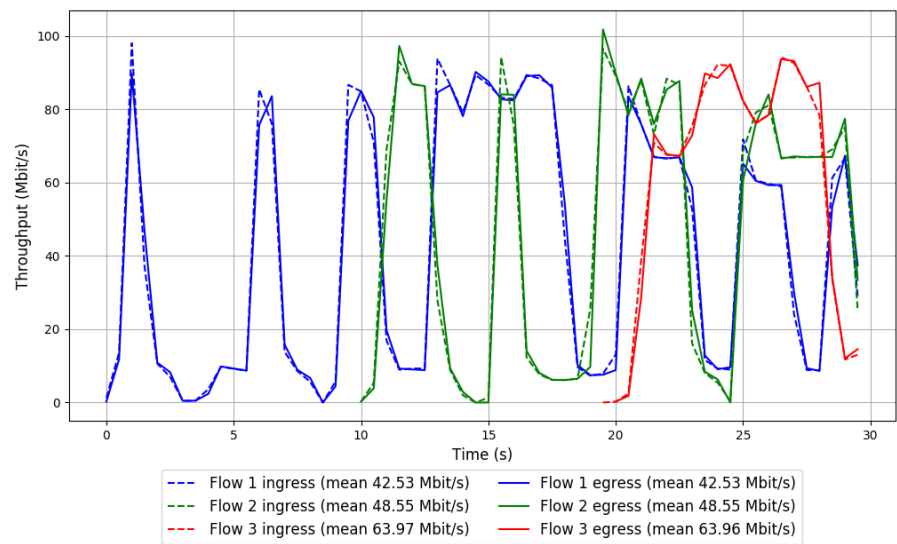
-- Flow 3:

Average throughput: 63.96 Mbit/s

95th percentile per-packet one-way delay: 63.481 ms

Loss rate: 0.00%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-01-03 10:36:08

End at: 2018-01-03 10:36:38

Below is generated by plot.py at 2018-01-03 13:01:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 99.60 Mbit/s

95th percentile per-packet one-way delay: 63.765 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 62.06 Mbit/s

95th percentile per-packet one-way delay: 63.772 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 48.71 Mbit/s

95th percentile per-packet one-way delay: 63.761 ms

Loss rate: 0.00%

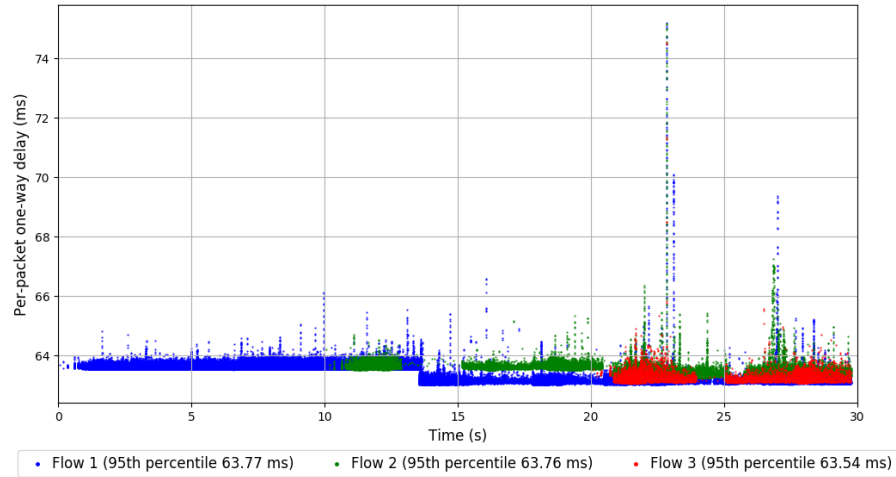
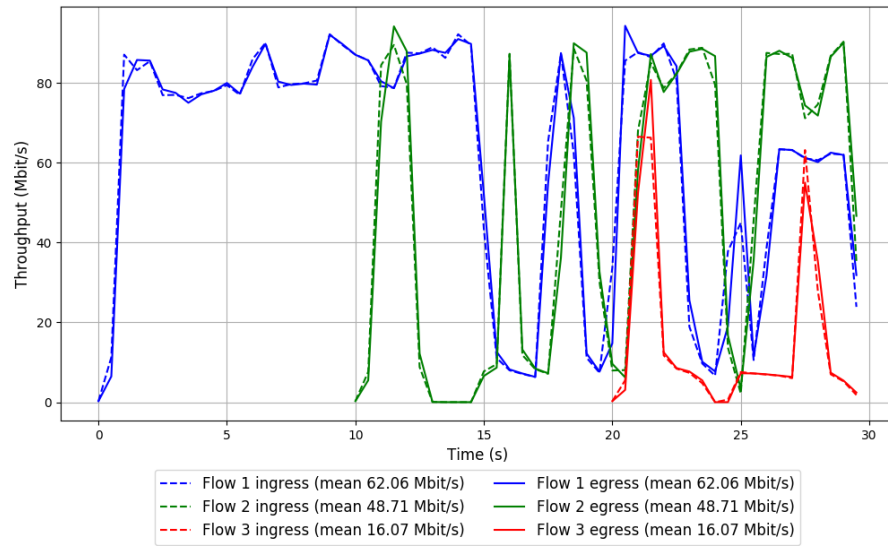
-- Flow 3:

Average throughput: 16.07 Mbit/s

95th percentile per-packet one-way delay: 63.538 ms

Loss rate: 0.00%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-01-03 10:50:12

End at: 2018-01-03 10:50:42

Below is generated by plot.py at 2018-01-03 13:01:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 68.19 Mbit/s

95th percentile per-packet one-way delay: 63.533 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 41.25 Mbit/s

95th percentile per-packet one-way delay: 63.566 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 28.39 Mbit/s

95th percentile per-packet one-way delay: 61.538 ms

Loss rate: 0.00%

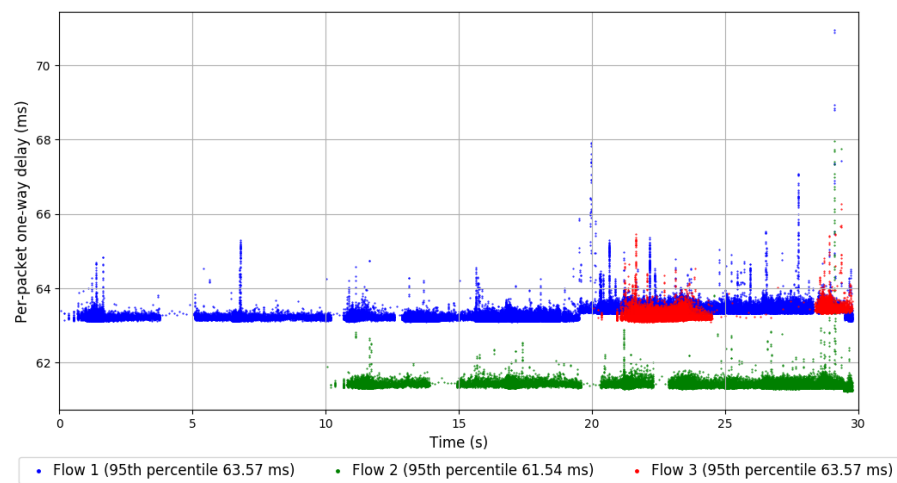
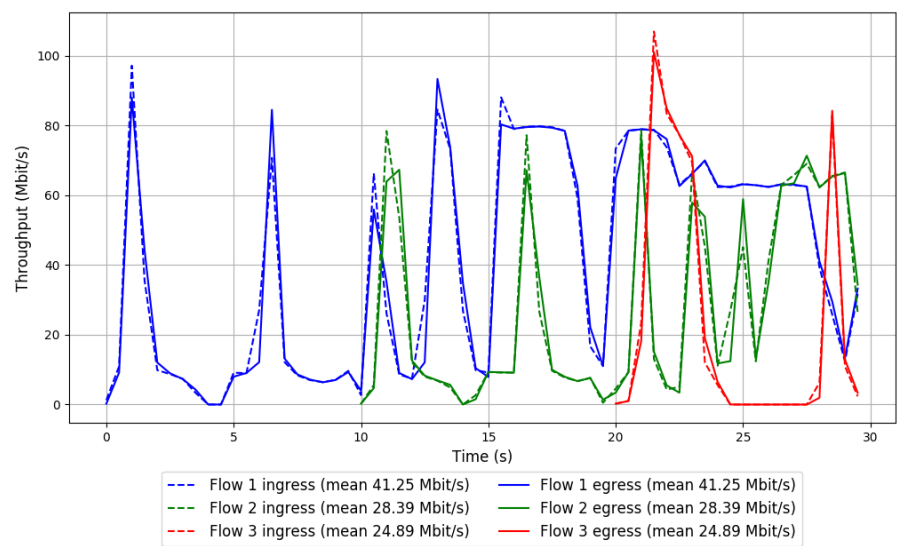
-- Flow 3:

Average throughput: 24.89 Mbit/s

95th percentile per-packet one-way delay: 63.569 ms

Loss rate: 0.00%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-01-03 11:04:08

End at: 2018-01-03 11:04:38

Below is generated by plot.py at 2018-01-03 13:01:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 119.50 Mbit/s

95th percentile per-packet one-way delay: 63.420 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 56.01 Mbit/s

95th percentile per-packet one-way delay: 63.254 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 61.44 Mbit/s

95th percentile per-packet one-way delay: 63.482 ms

Loss rate: 0.00%

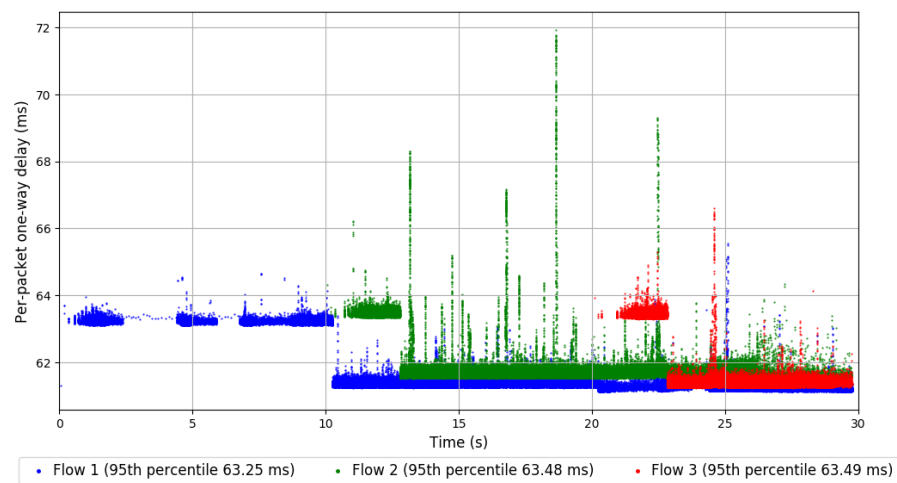
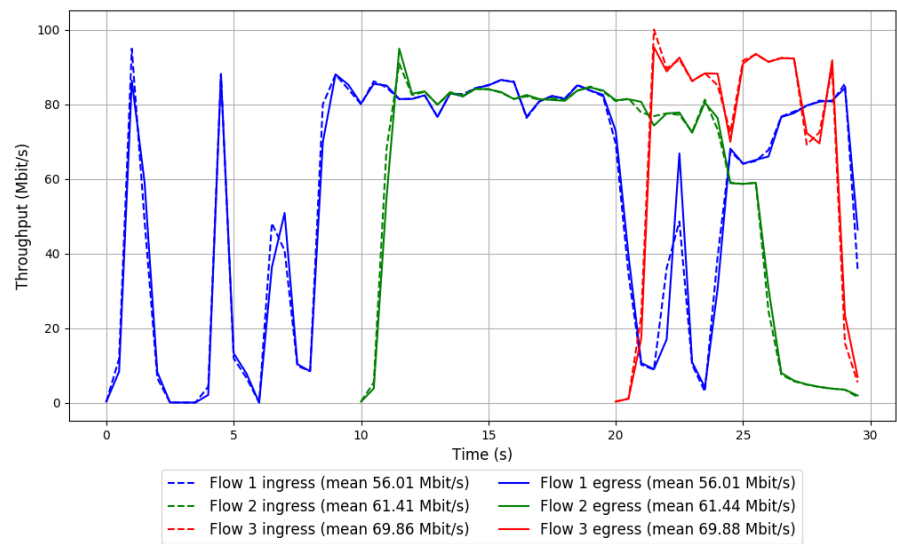
-- Flow 3:

Average throughput: 69.88 Mbit/s

95th percentile per-packet one-way delay: 63.486 ms

Loss rate: 0.00%

Run 10: Report of QUIC Cubic — Data Link

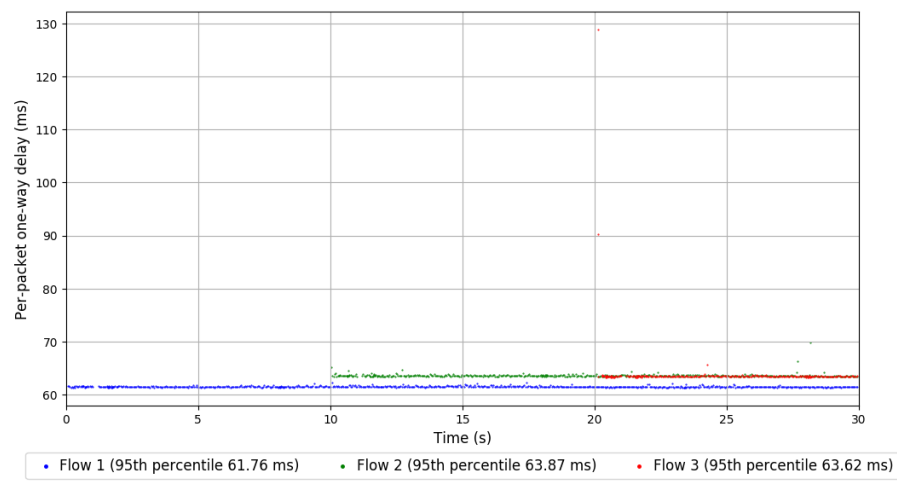
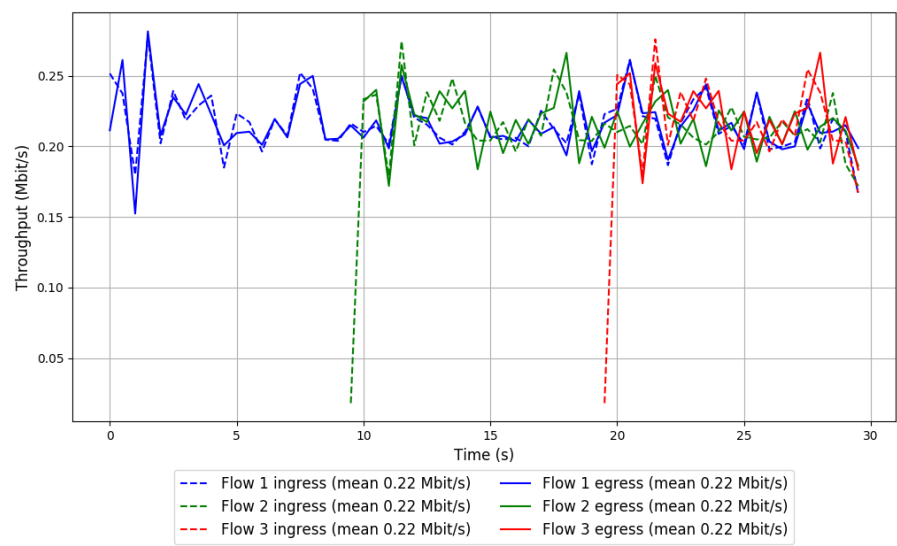


```
Run 1: Statistics of SCReAM

Start at: 2018-01-03 09:00:47
End at: 2018-01-03 09:01:17

# Below is generated by plot.py at 2018-01-03 13:01:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 63.697 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 61.760 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.872 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.617 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

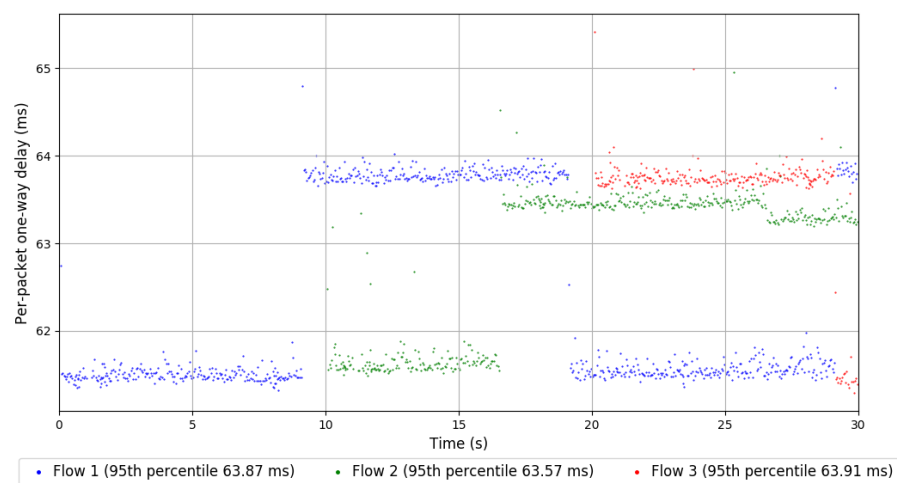
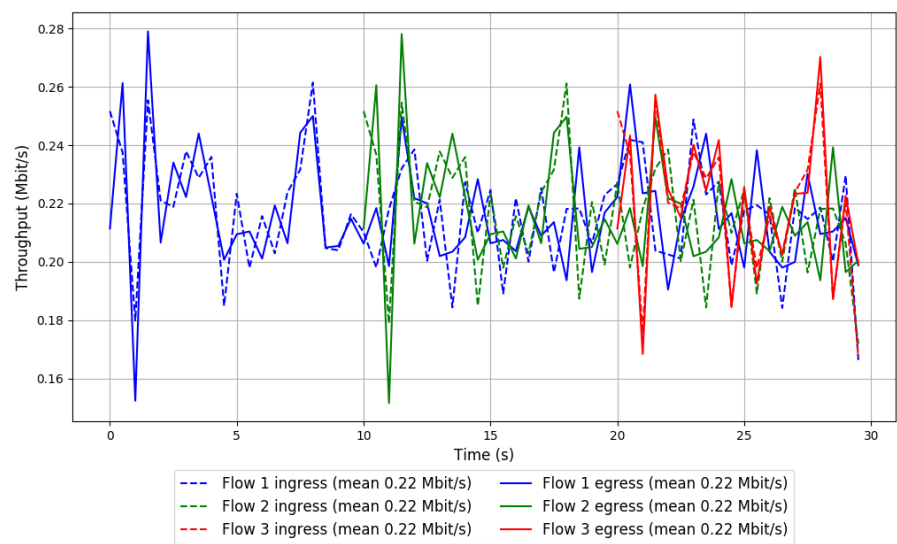


```
Run 2: Statistics of SReAM

Start at: 2018-01-03 09:13:02
End at: 2018-01-03 09:13:32

# Below is generated by plot.py at 2018-01-03 13:01:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 63.851 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.865 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.567 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.907 ms
Loss rate: 0.00%
```

Run 2: Report of SReAM — Data Link

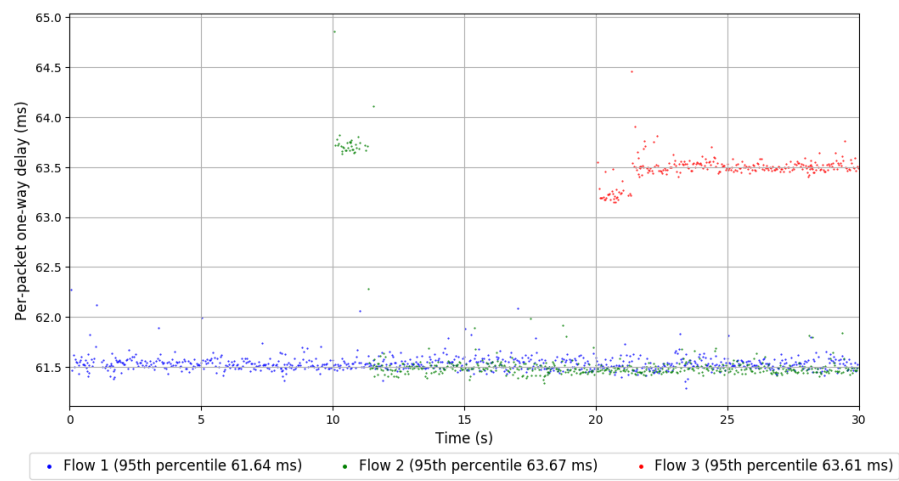
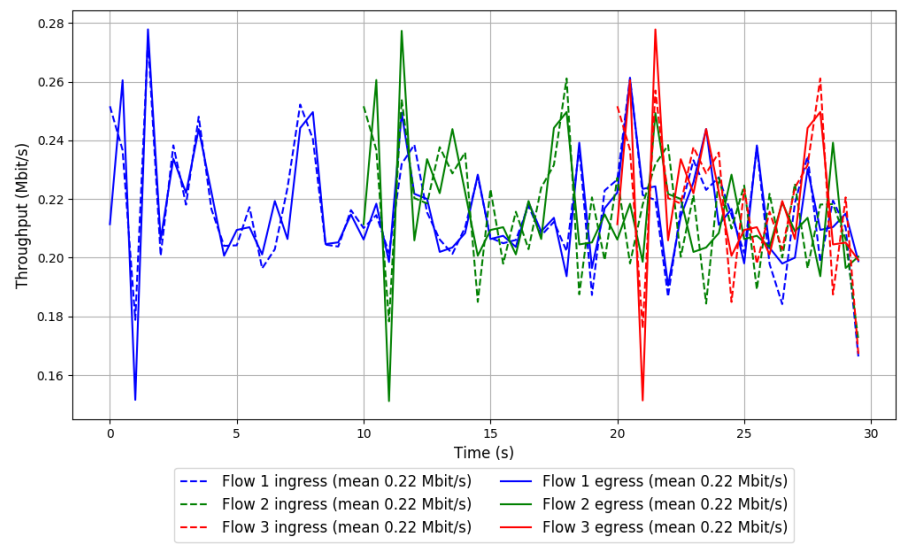


```
Run 3: Statistics of SCReAM

Start at: 2018-01-03 09:25:50
End at: 2018-01-03 09:26:20

# Below is generated by plot.py at 2018-01-03 13:01:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 63.545 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 61.642 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.671 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.606 ms
Loss rate: 0.00%
```


Run 3: Report of SReAM — Data Link

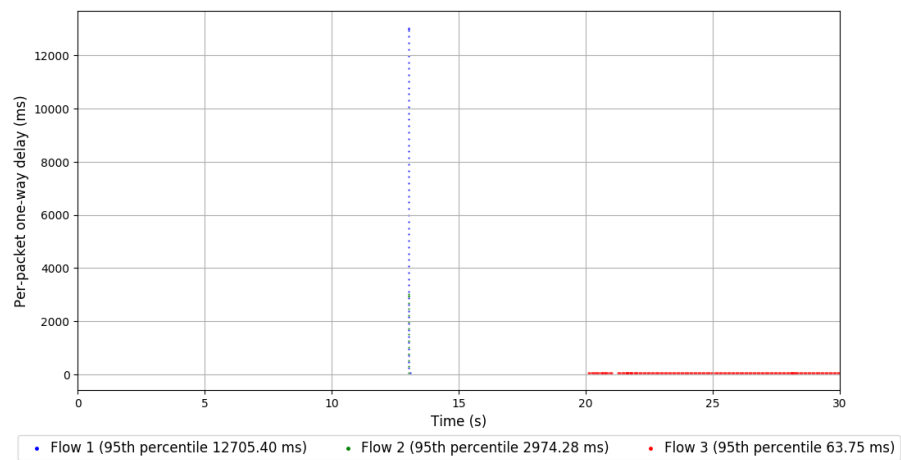
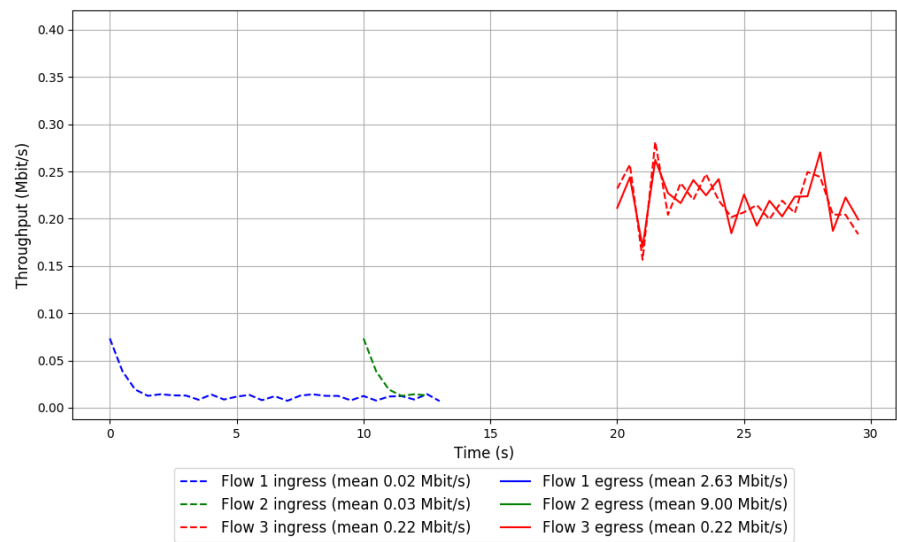


Run 4: Statistics of SReAM

Start at: 2018-01-03 09:39:16

End at: 2018-01-03 09:39:46

Run 4: Report of SReAM — Data Link

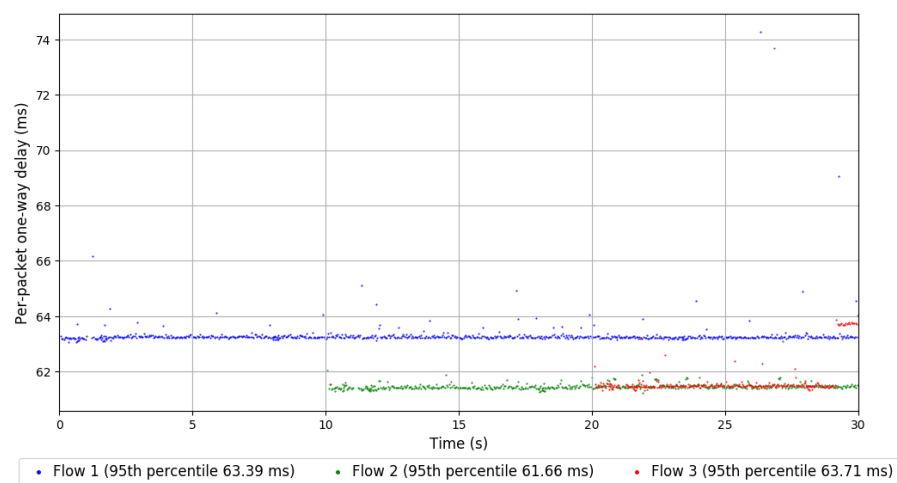
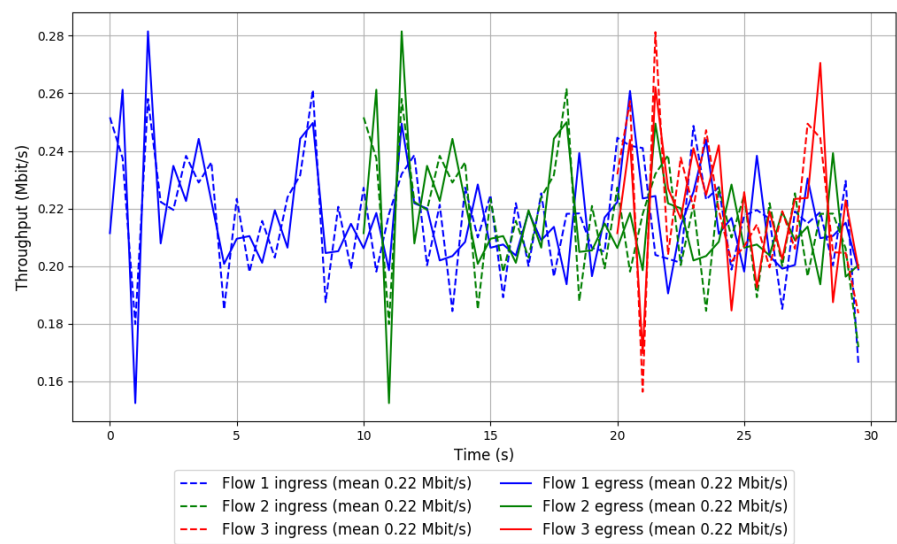


```
Run 5: Statistics of SReAM

Start at: 2018-01-03 09:53:20
End at: 2018-01-03 09:53:50

# Below is generated by plot.py at 2018-01-03 13:01:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 63.345 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.391 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 61.665 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.713 ms
Loss rate: 0.00%
```

Run 5: Report of SReAM — Data Link

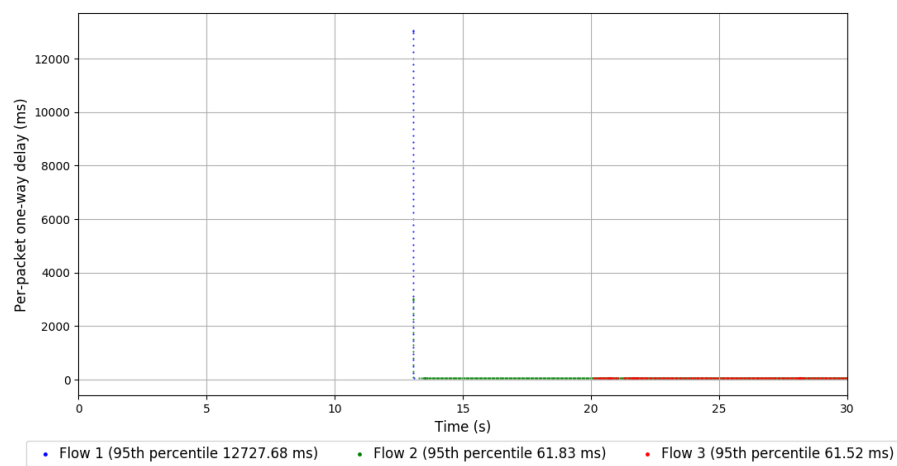
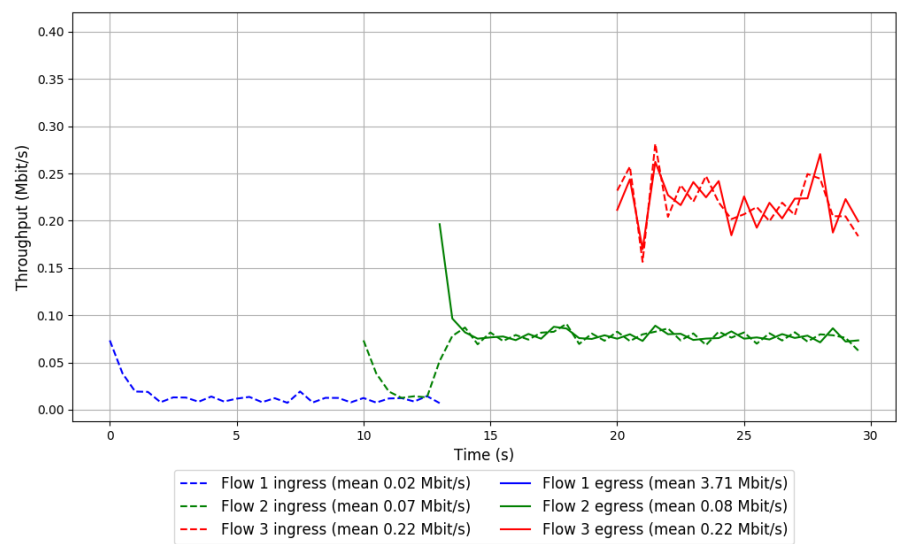


Run 6: Statistics of SReAM

Start at: 2018-01-03 10:06:59

End at: 2018-01-03 10:07:29

Run 6: Report of SReAM — Data Link

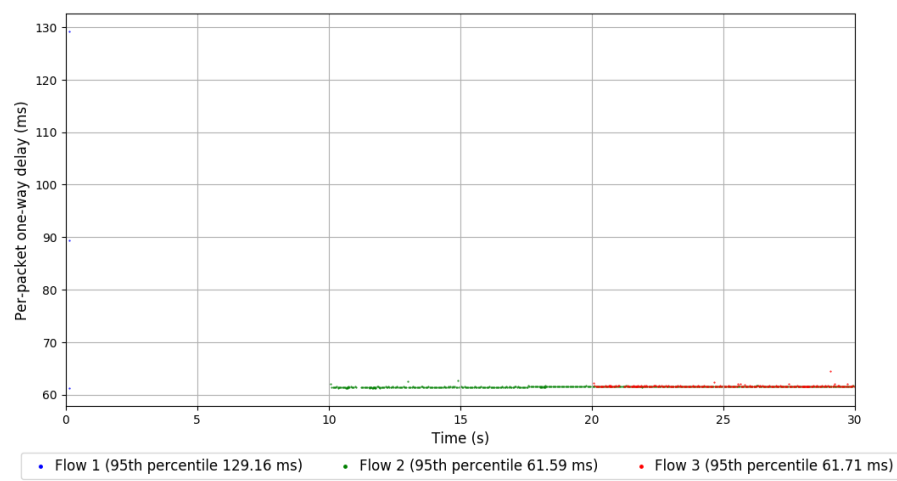
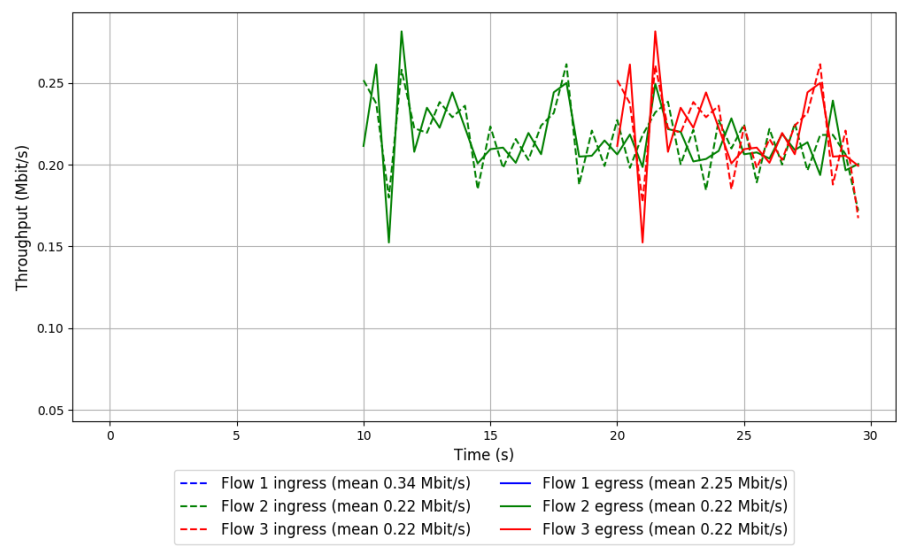


```
Run 7: Statistics of SReAM

Start at: 2018-01-03 10:21:14
End at: 2018-01-03 10:21:44

# Below is generated by plot.py at 2018-01-03 13:01:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 61.649 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.25 Mbit/s
95th percentile per-packet one-way delay: 129.155 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 61.589 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 61.710 ms
Loss rate: 0.00%
```


Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-01-03 10:35:27

End at: 2018-01-03 10:35:57

Below is generated by plot.py at 2018-01-03 13:01:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 63.668 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.668 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.626 ms

Loss rate: 0.00%

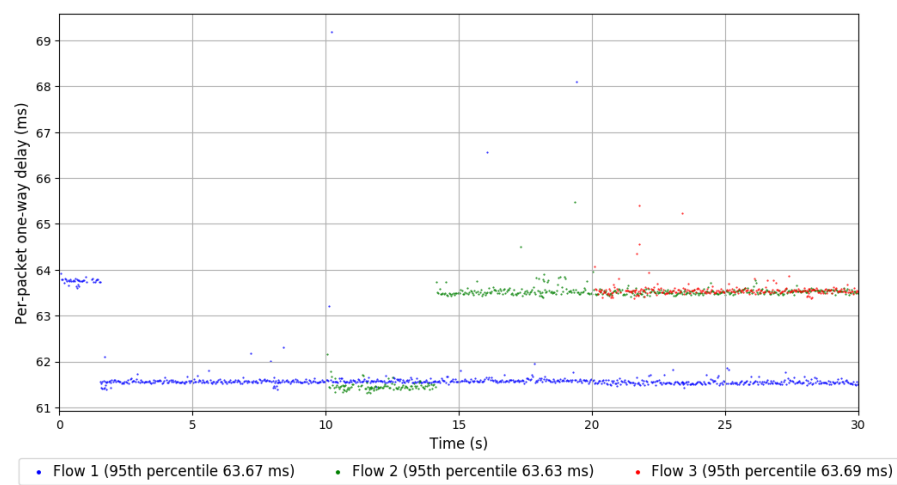
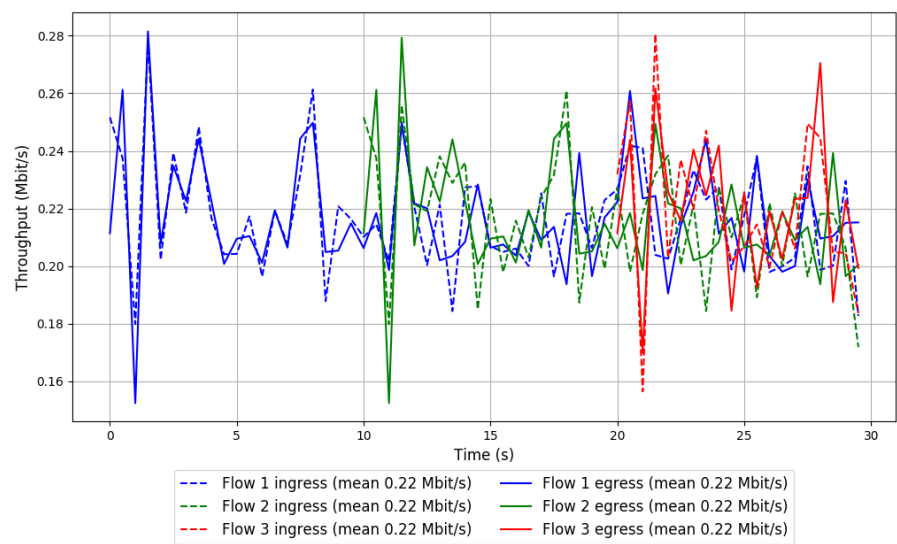
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.694 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SReAM

Start at: 2018-01-03 10:49:31

End at: 2018-01-03 10:50:01

Below is generated by plot.py at 2018-01-03 13:01:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 63.620 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.642 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.584 ms

Loss rate: 0.00%

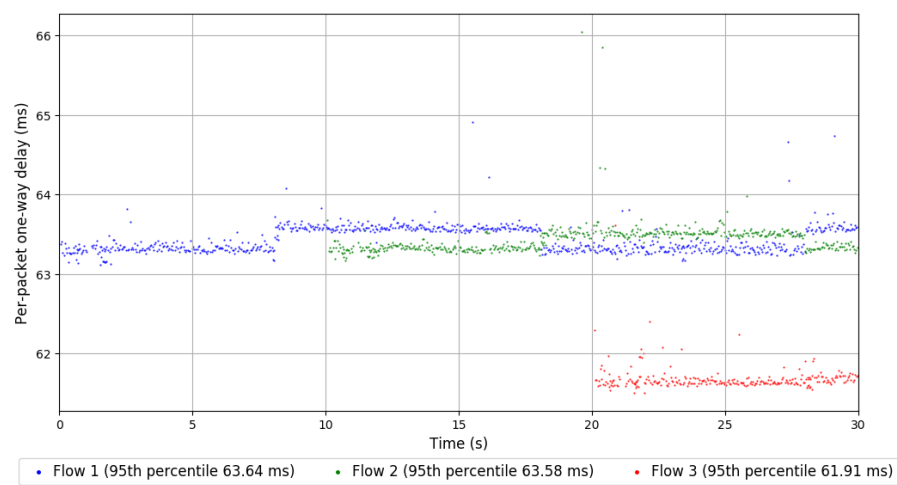
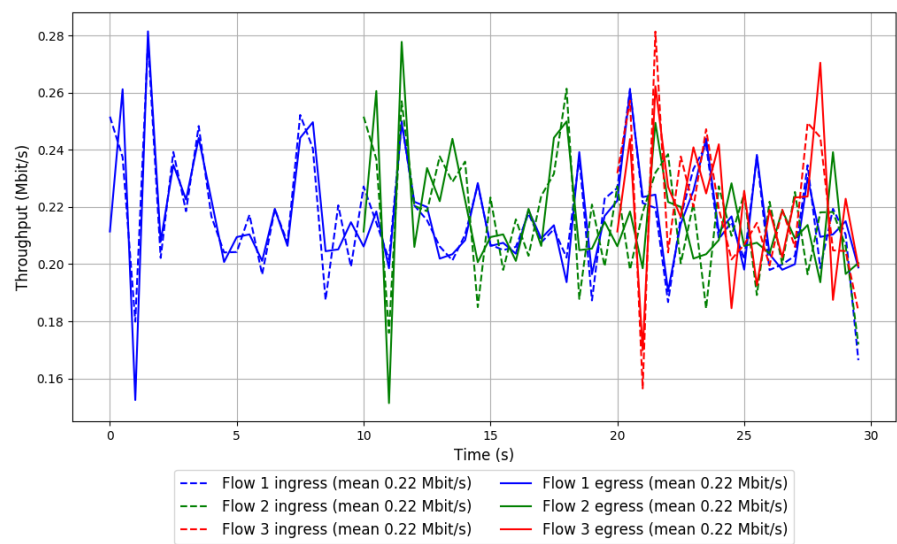
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 61.912 ms

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link

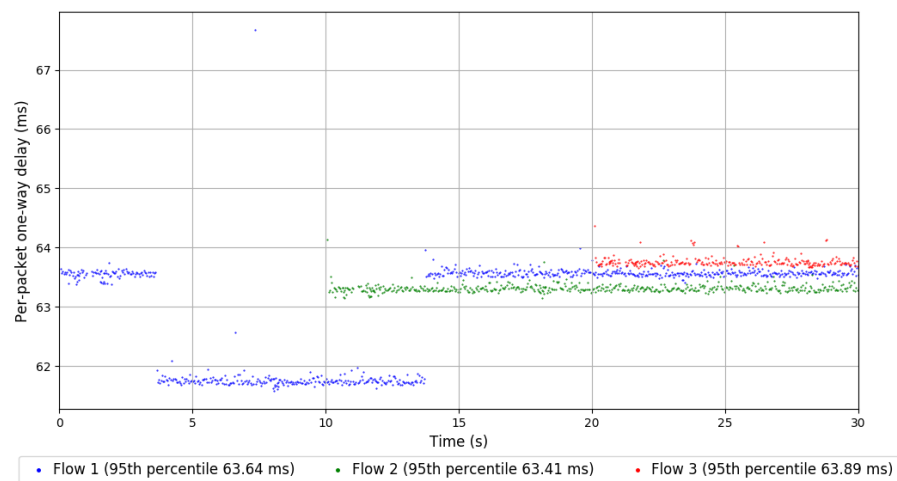
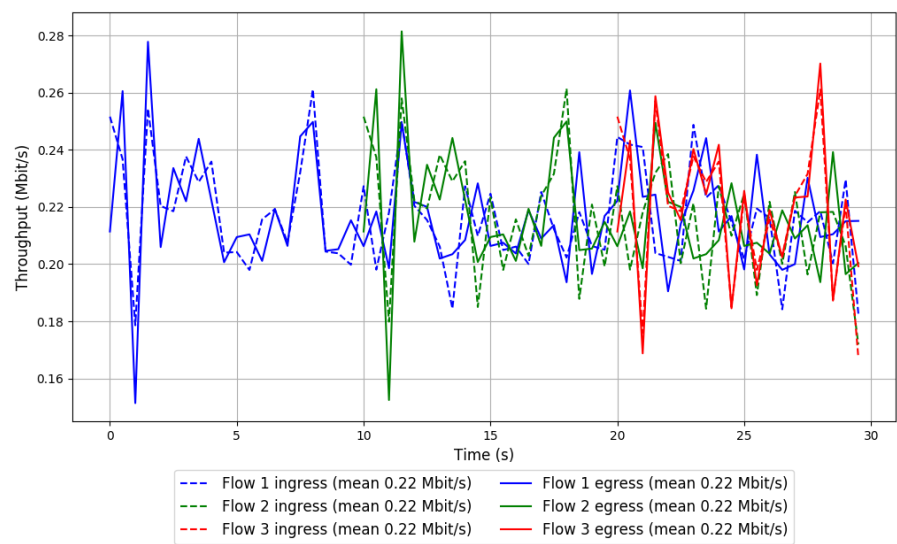


```
Run 10: Statistics of SReAM

Start at: 2018-01-03 11:03:28
End at: 2018-01-03 11:03:58

# Below is generated by plot.py at 2018-01-03 13:01:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 63.766 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.641 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.412 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.891 ms
Loss rate: 0.00%
```

Run 10: Report of SReAM — Data Link

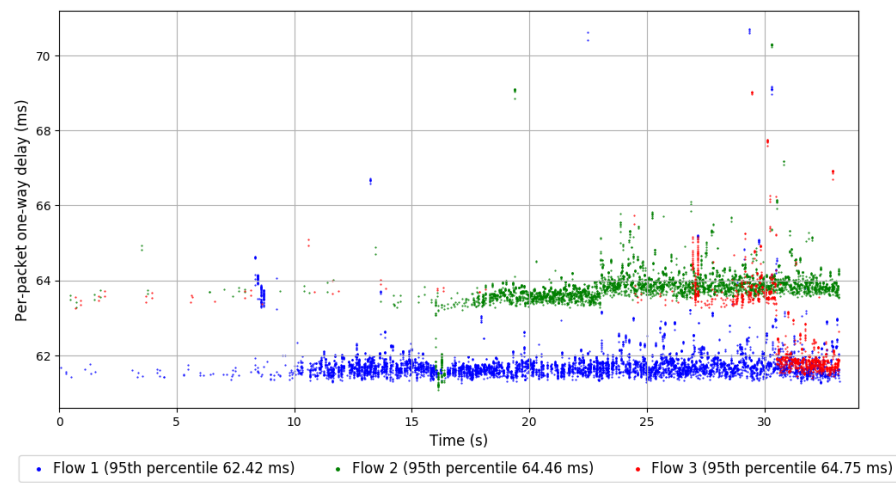
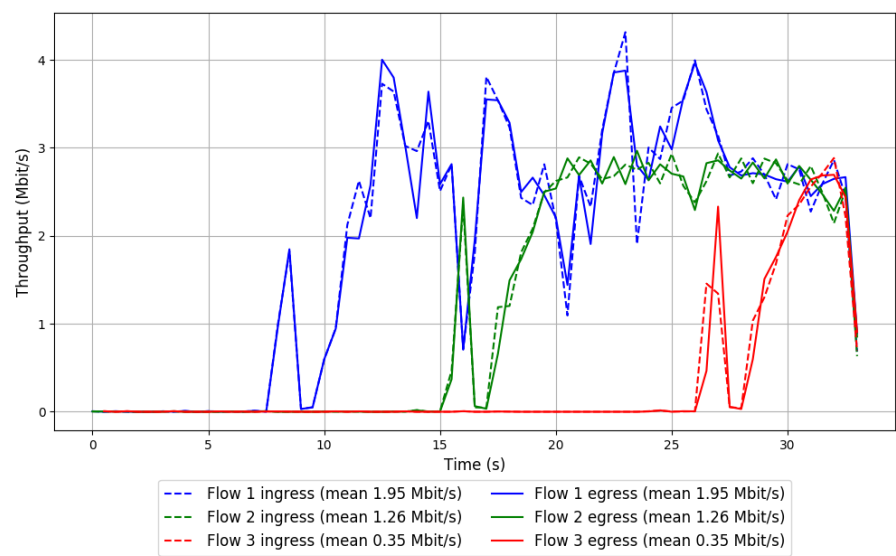


```
Run 1: Statistics of WebRTC media

Start at: 2018-01-03 09:08:12
End at: 2018-01-03 09:08:42

# Below is generated by plot.py at 2018-01-03 13:01:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.53 Mbit/s
95th percentile per-packet one-way delay: 64.187 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.95 Mbit/s
95th percentile per-packet one-way delay: 62.425 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.26 Mbit/s
95th percentile per-packet one-way delay: 64.458 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.35 Mbit/s
95th percentile per-packet one-way delay: 64.749 ms
Loss rate: 0.00%
```


Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-01-03 09:20:36

End at: 2018-01-03 09:21:06

Below is generated by plot.py at 2018-01-03 13:01:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.84 Mbit/s

95th percentile per-packet one-way delay: 63.793 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.09 Mbit/s

95th percentile per-packet one-way delay: 63.836 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.29 Mbit/s

95th percentile per-packet one-way delay: 62.424 ms

Loss rate: 0.00%

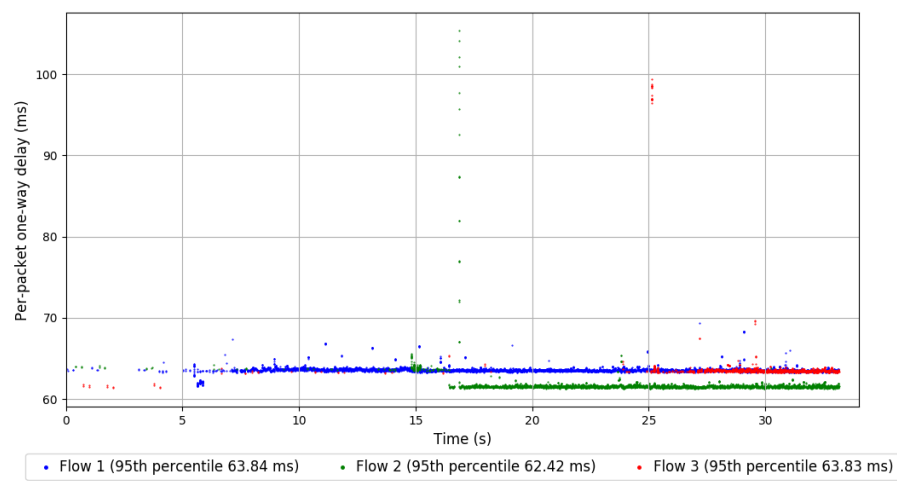
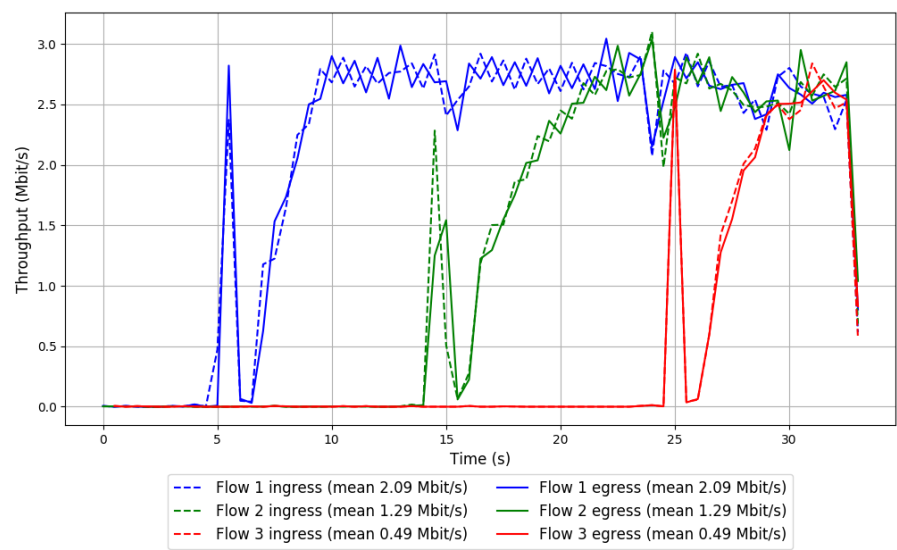
-- Flow 3:

Average throughput: 0.49 Mbit/s

95th percentile per-packet one-way delay: 63.833 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-01-03 09:33:48

End at: 2018-01-03 09:34:18

Below is generated by plot.py at 2018-01-03 13:01:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.10 Mbit/s

95th percentile per-packet one-way delay: 63.664 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.20 Mbit/s

95th percentile per-packet one-way delay: 63.382 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.39 Mbit/s

95th percentile per-packet one-way delay: 61.517 ms

Loss rate: 0.00%

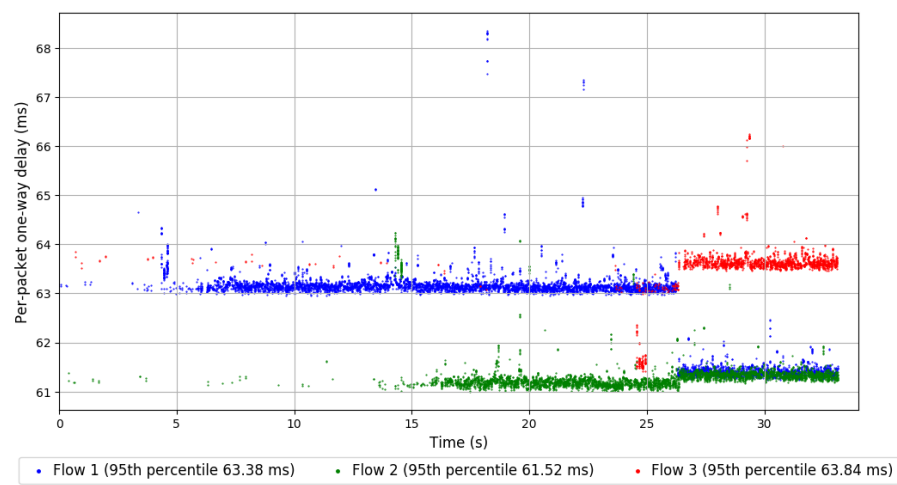
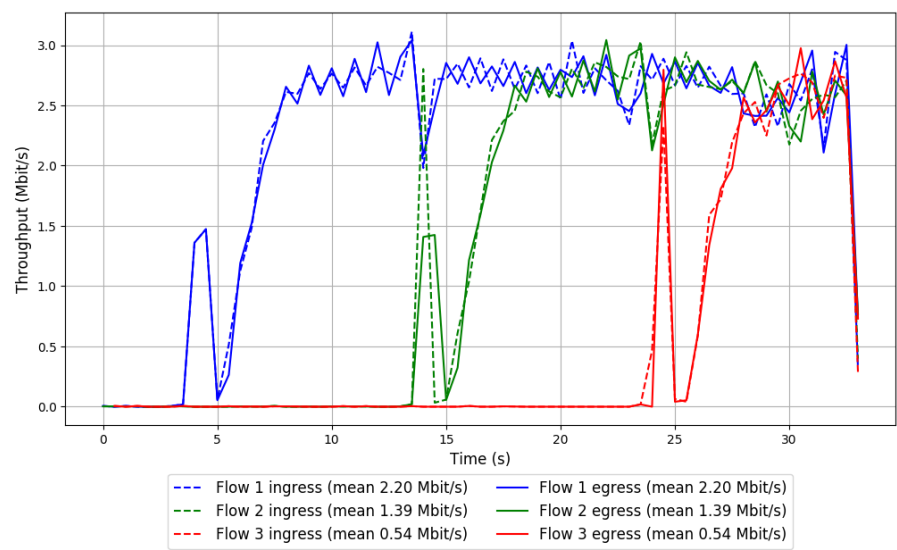
-- Flow 3:

Average throughput: 0.54 Mbit/s

95th percentile per-packet one-way delay: 63.839 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-01-03 09:47:52

End at: 2018-01-03 09:48:22

Below is generated by plot.py at 2018-01-03 13:01:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.13 Mbit/s

95th percentile per-packet one-way delay: 63.799 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.20 Mbit/s

95th percentile per-packet one-way delay: 63.895 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.40 Mbit/s

95th percentile per-packet one-way delay: 63.499 ms

Loss rate: 0.00%

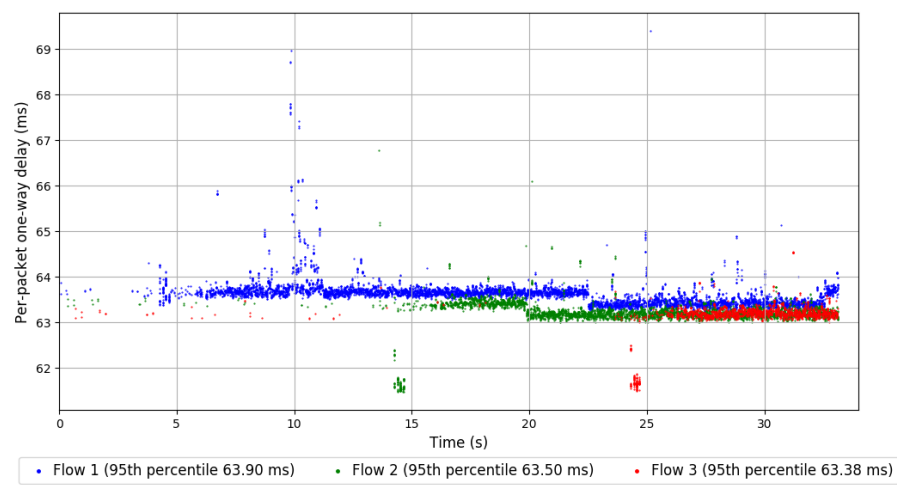
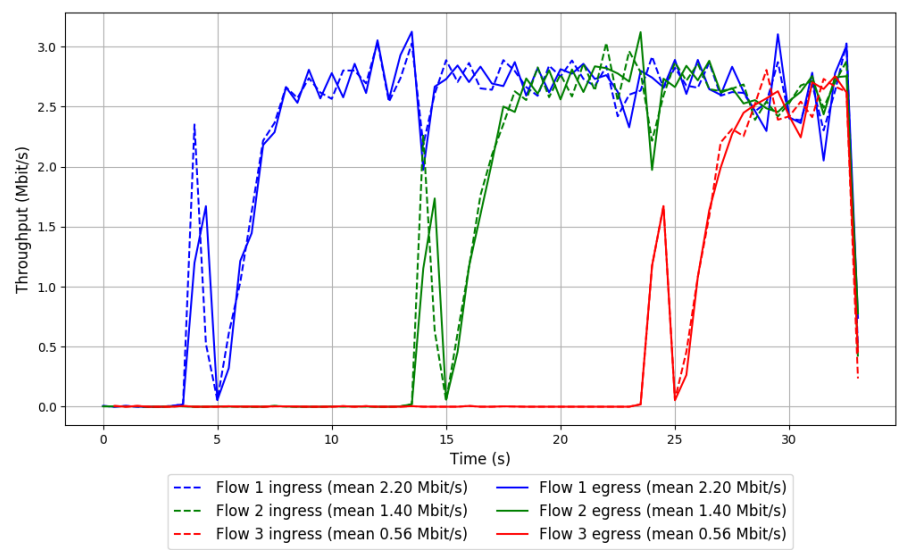
-- Flow 3:

Average throughput: 0.56 Mbit/s

95th percentile per-packet one-way delay: 63.376 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-01-03 10:01:33

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

Below is generated by plot.py at 2018-01-03 13:01:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.14 Mbit/s

95th percentile per-packet one-way delay: 63.742 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.20 Mbit/s

95th percentile per-packet one-way delay: 63.389 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.40 Mbit/s

95th percentile per-packet one-way delay: 63.818 ms

Loss rate: 0.00%

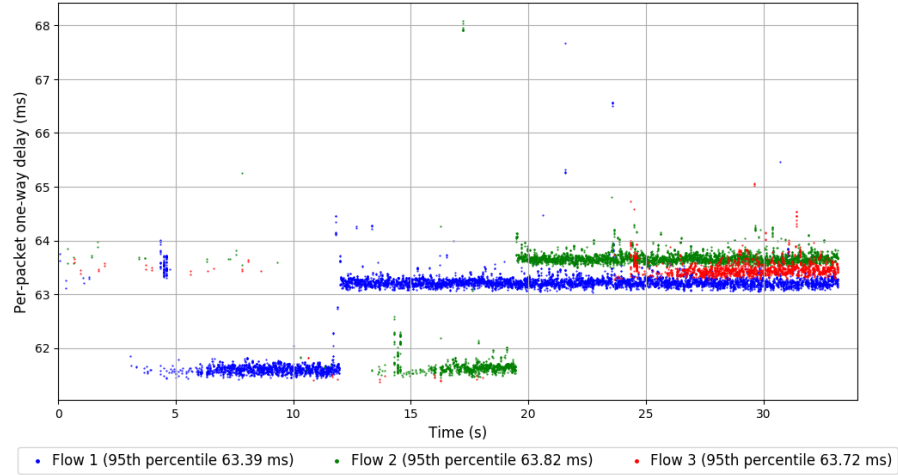
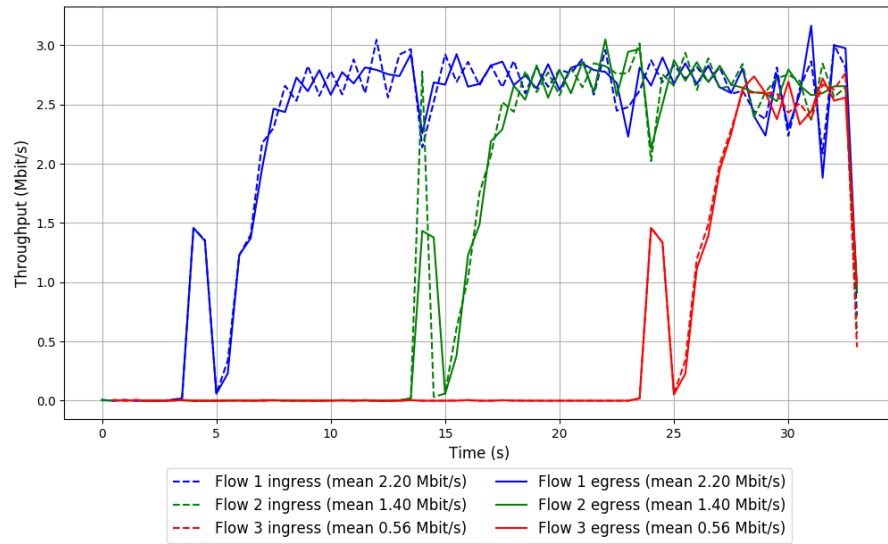
-- Flow 3:

Average throughput: 0.56 Mbit/s

95th percentile per-packet one-way delay: 63.720 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-01-03 10:15:40

End at: 2018-01-03 10:16:10

Below is generated by plot.py at 2018-01-03 13:01:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.13 Mbit/s

95th percentile per-packet one-way delay: 63.801 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.21 Mbit/s

95th percentile per-packet one-way delay: 63.817 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.39 Mbit/s

95th percentile per-packet one-way delay: 63.779 ms

Loss rate: 0.00%

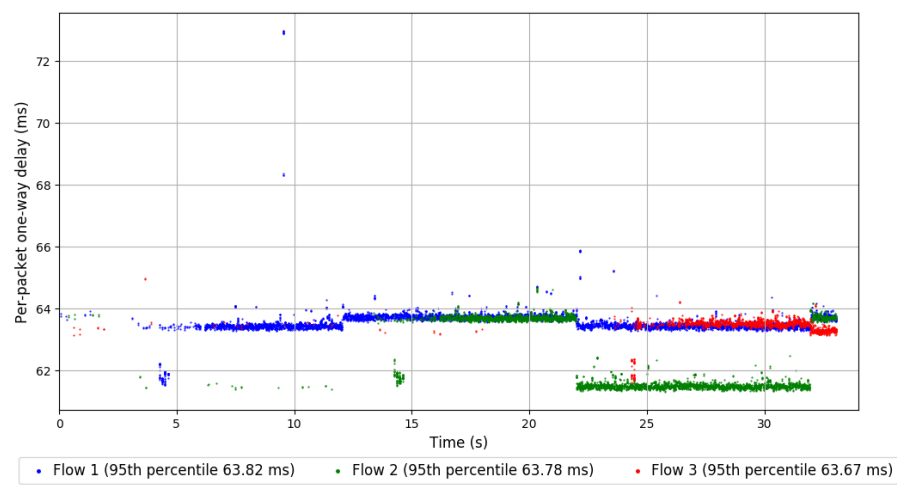
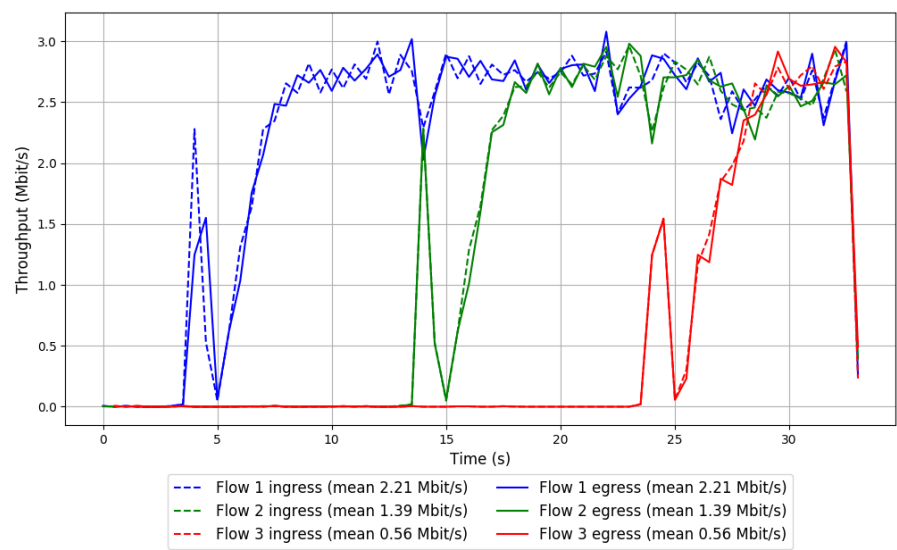
-- Flow 3:

Average throughput: 0.56 Mbit/s

95th percentile per-packet one-way delay: 63.671 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-01-03 10:29:55

End at: 2018-01-03 10:30:25

Below is generated by plot.py at 2018-01-03 13:01:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.12 Mbit/s

95th percentile per-packet one-way delay: 63.630 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.21 Mbit/s

95th percentile per-packet one-way delay: 63.676 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.39 Mbit/s

95th percentile per-packet one-way delay: 61.657 ms

Loss rate: 0.00%

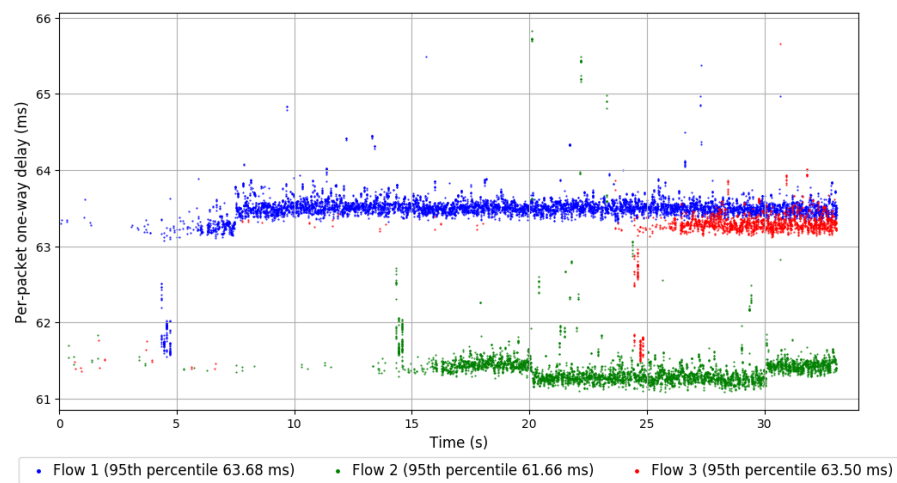
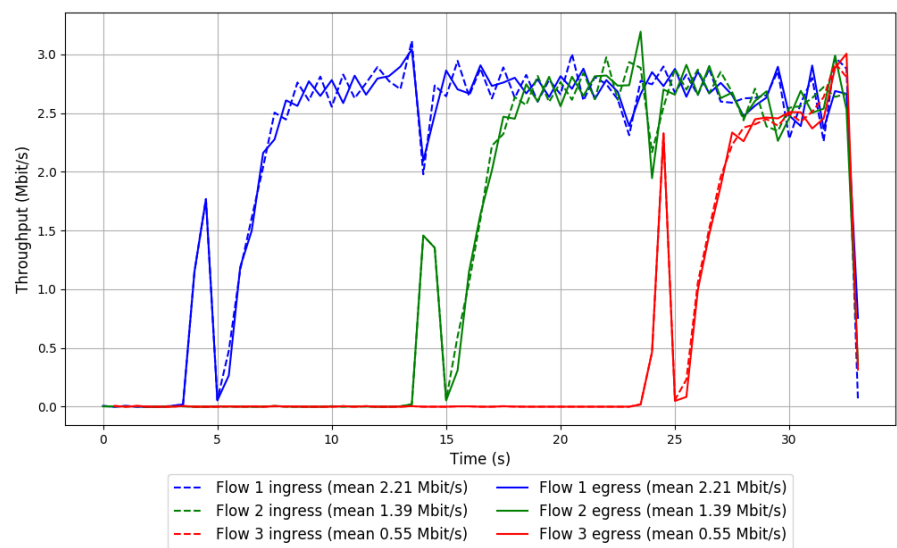
-- Flow 3:

Average throughput: 0.55 Mbit/s

95th percentile per-packet one-way delay: 63.500 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-01-03 10:44:05

End at: 2018-01-03 10:44:35

Below is generated by plot.py at 2018-01-03 13:01:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.37 Mbit/s

95th percentile per-packet one-way delay: 63.827 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.33 Mbit/s

95th percentile per-packet one-way delay: 63.816 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.46 Mbit/s

95th percentile per-packet one-way delay: 63.856 ms

Loss rate: 0.00%

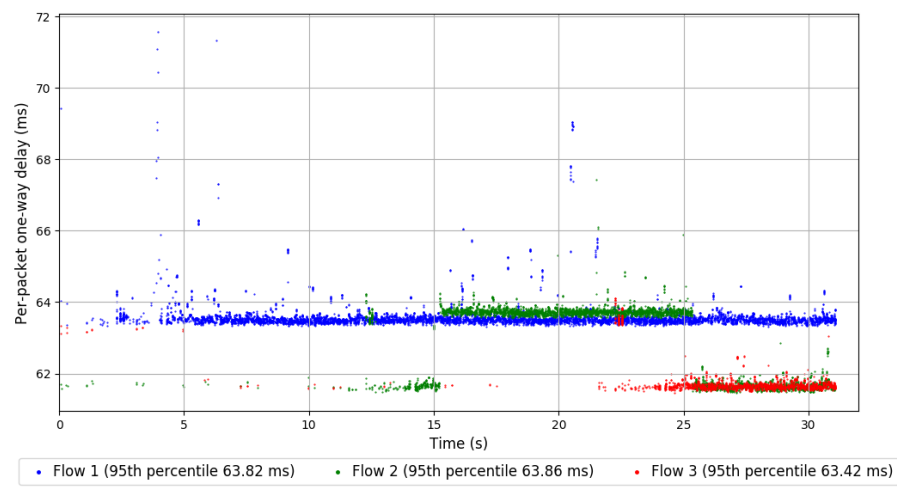
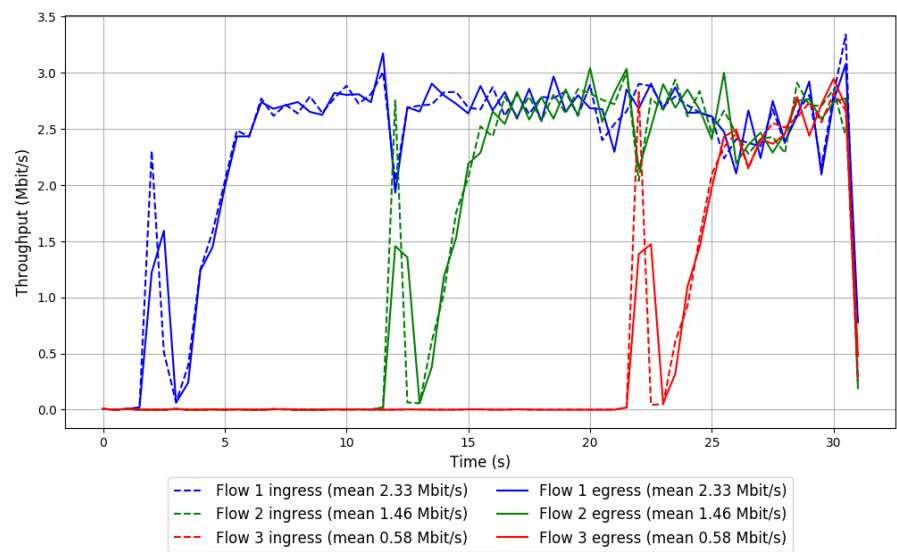
-- Flow 3:

Average throughput: 0.58 Mbit/s

95th percentile per-packet one-way delay: 63.423 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

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

End at: 2018-01-03 10:58:32

Below is generated by plot.py at 2018-01-03 13:01:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.12 Mbit/s

95th percentile per-packet one-way delay: 63.576 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.21 Mbit/s

95th percentile per-packet one-way delay: 63.591 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.38 Mbit/s

95th percentile per-packet one-way delay: 63.568 ms

Loss rate: 0.00%

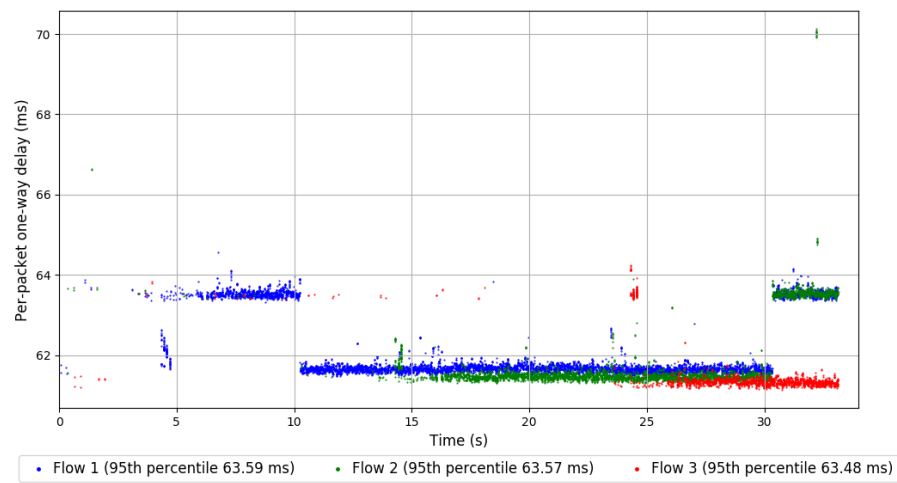
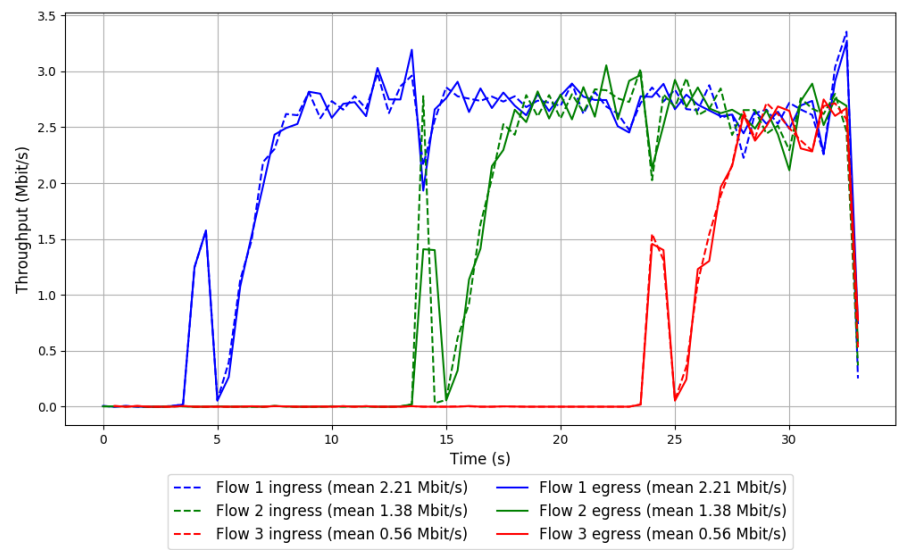
-- Flow 3:

Average throughput: 0.56 Mbit/s

95th percentile per-packet one-way delay: 63.483 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-01-03 11:11:56

End at: 2018-01-03 11:12:26

Run 10: Report of WebRTC media — Data Link

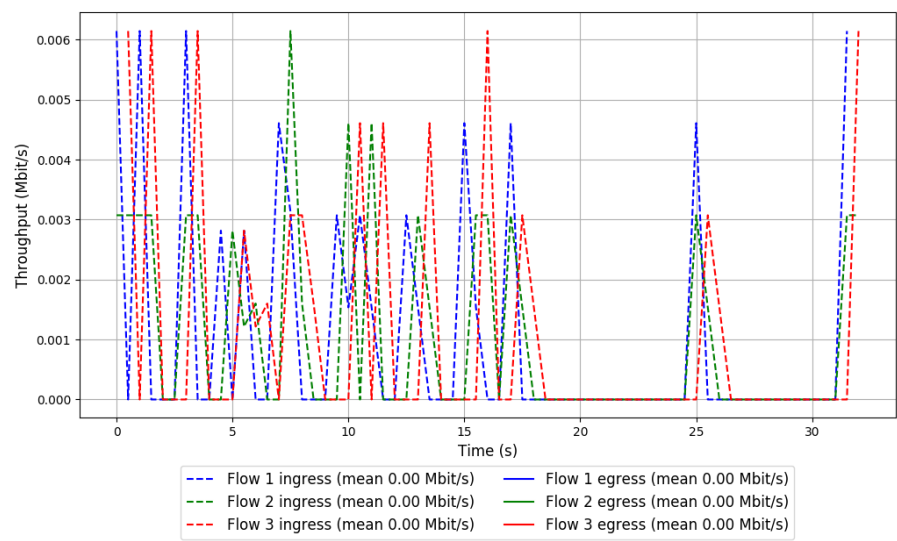


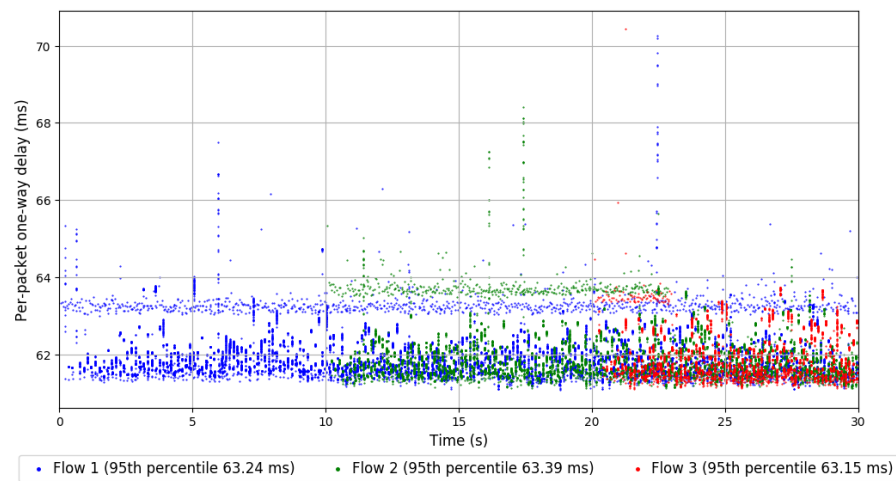
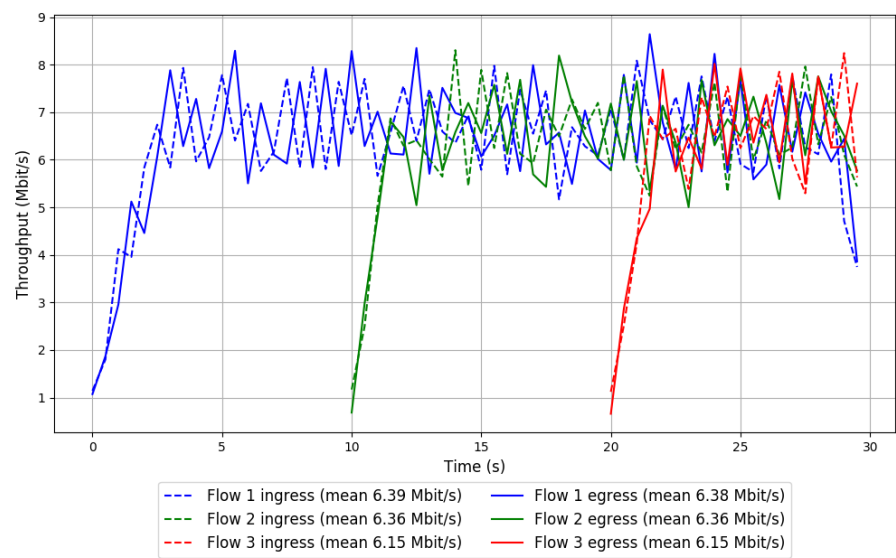
Figure is missing

```
Run 1: Statistics of Sprout

Start at: 2018-01-03 09:06:16
End at: 2018-01-03 09:06:46

# Below is generated by plot.py at 2018-01-03 13:01:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 12.63 Mbit/s
95th percentile per-packet one-way delay: 63.230 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 6.38 Mbit/s
95th percentile per-packet one-way delay: 63.237 ms
Loss rate: 0.16%
-- Flow 2:
Average throughput: 6.36 Mbit/s
95th percentile per-packet one-way delay: 63.393 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 6.15 Mbit/s
95th percentile per-packet one-way delay: 63.154 ms
Loss rate: 0.00%
```

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-01-03 09:18:44

End at: 2018-01-03 09:19:14

Below is generated by plot.py at 2018-01-03 13:01:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 12.57 Mbit/s

95th percentile per-packet one-way delay: 64.650 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 6.30 Mbit/s

95th percentile per-packet one-way delay: 64.400 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 6.32 Mbit/s

95th percentile per-packet one-way delay: 64.677 ms

Loss rate: 0.00%

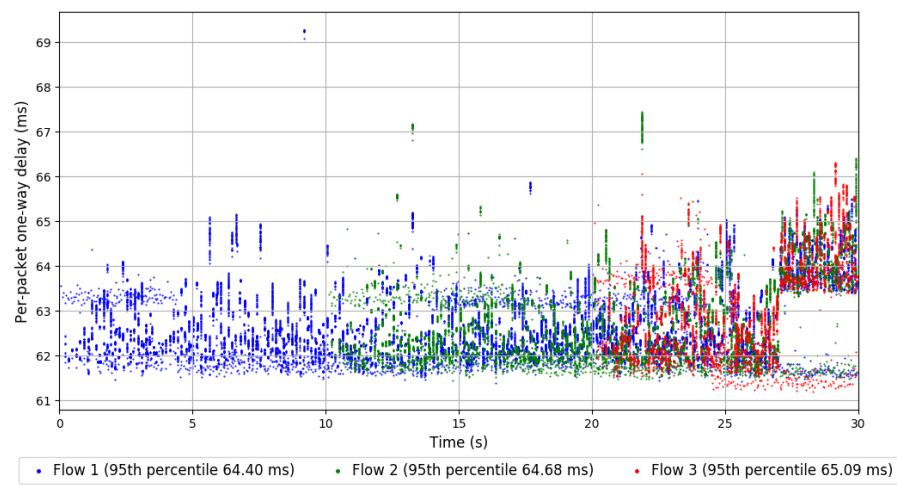
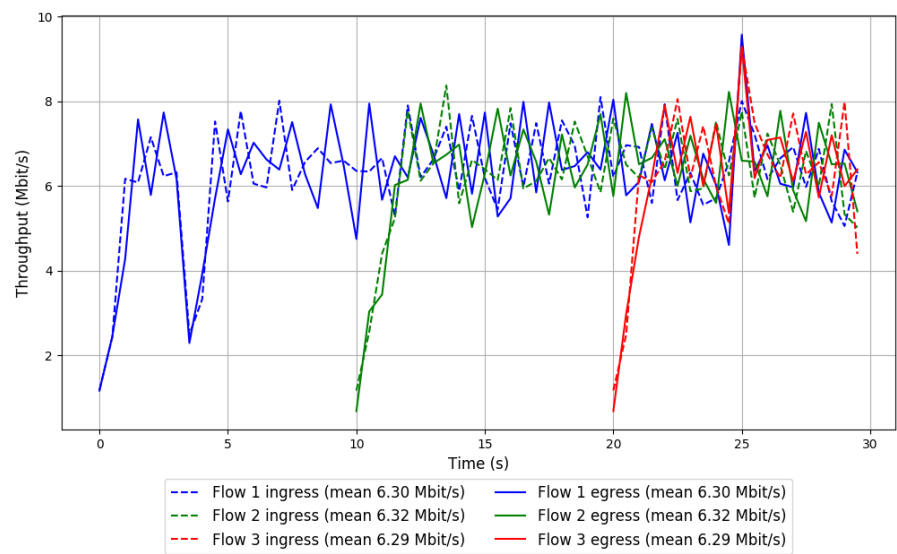
-- Flow 3:

Average throughput: 6.29 Mbit/s

95th percentile per-packet one-way delay: 65.089 ms

Loss rate: 0.00%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-01-03 09:32:03

End at: 2018-01-03 09:32:33

Below is generated by plot.py at 2018-01-03 13:01:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 13.61 Mbit/s

95th percentile per-packet one-way delay: 64.572 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 6.58 Mbit/s

95th percentile per-packet one-way delay: 64.494 ms

Loss rate: 0.09%

-- Flow 2:

Average throughput: 6.54 Mbit/s

95th percentile per-packet one-way delay: 64.464 ms

Loss rate: 0.06%

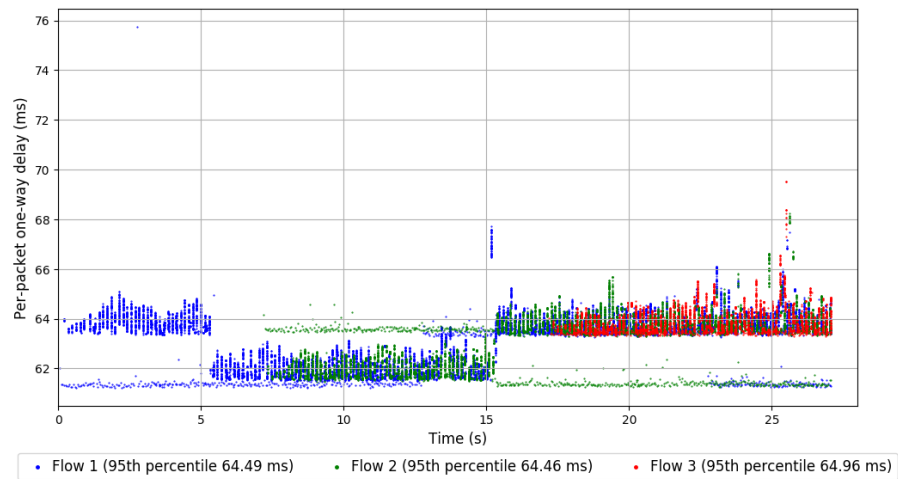
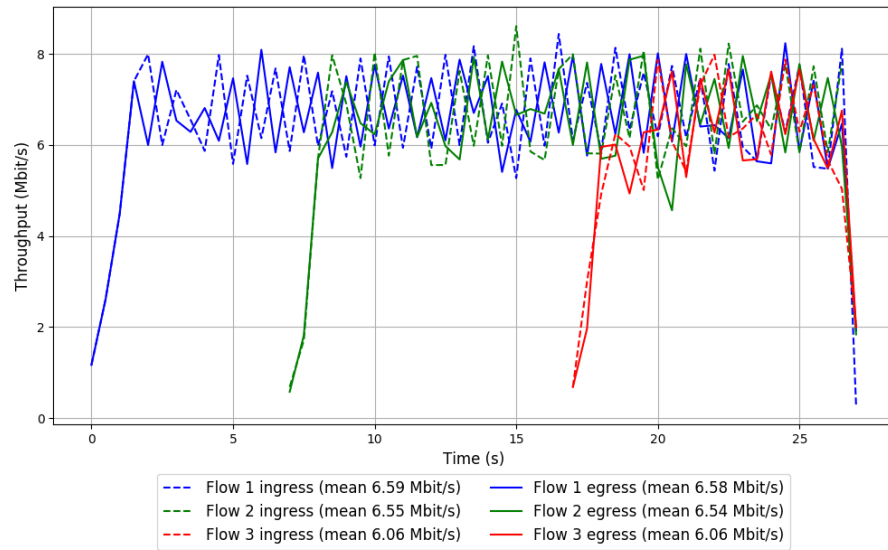
-- Flow 3:

Average throughput: 6.06 Mbit/s

95th percentile per-packet one-way delay: 64.962 ms

Loss rate: 0.00%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-01-03 09:45:31

End at: 2018-01-03 09:46:01

Below is generated by plot.py at 2018-01-03 13:01:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 12.92 Mbit/s

95th percentile per-packet one-way delay: 64.467 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 6.45 Mbit/s

95th percentile per-packet one-way delay: 64.477 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 6.59 Mbit/s

95th percentile per-packet one-way delay: 64.390 ms

Loss rate: 0.00%

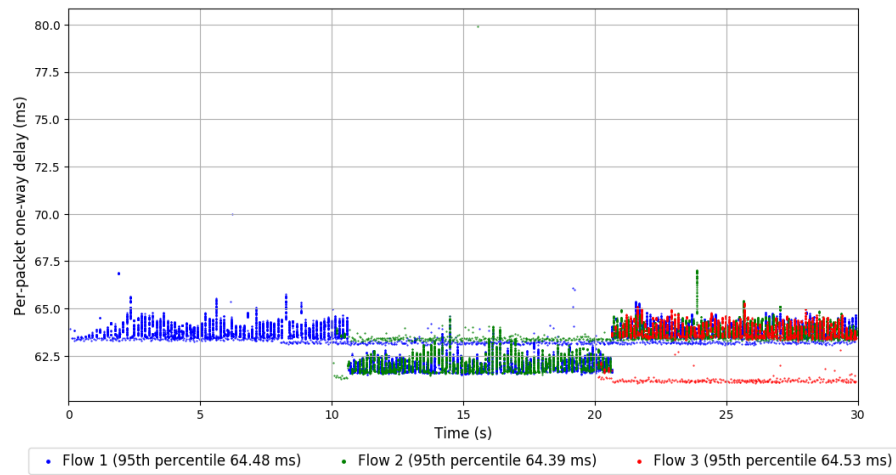
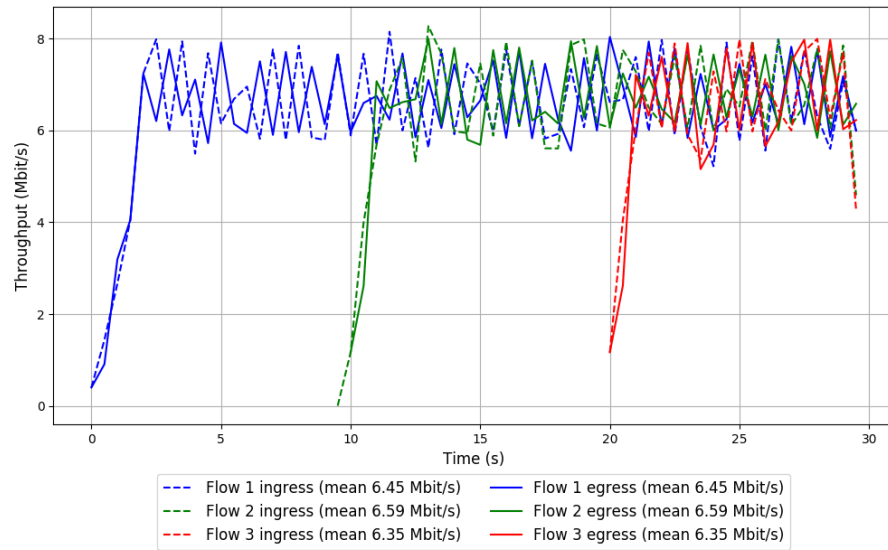
-- Flow 3:

Average throughput: 6.35 Mbit/s

95th percentile per-packet one-way delay: 64.525 ms

Loss rate: 0.00%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-01-03 09:59:35

End at: 2018-01-03 10:00:05

Below is generated by plot.py at 2018-01-03 13:01:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 13.60 Mbit/s

95th percentile per-packet one-way delay: 64.429 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 6.59 Mbit/s

95th percentile per-packet one-way delay: 64.369 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 6.61 Mbit/s

95th percentile per-packet one-way delay: 64.558 ms

Loss rate: 0.05%

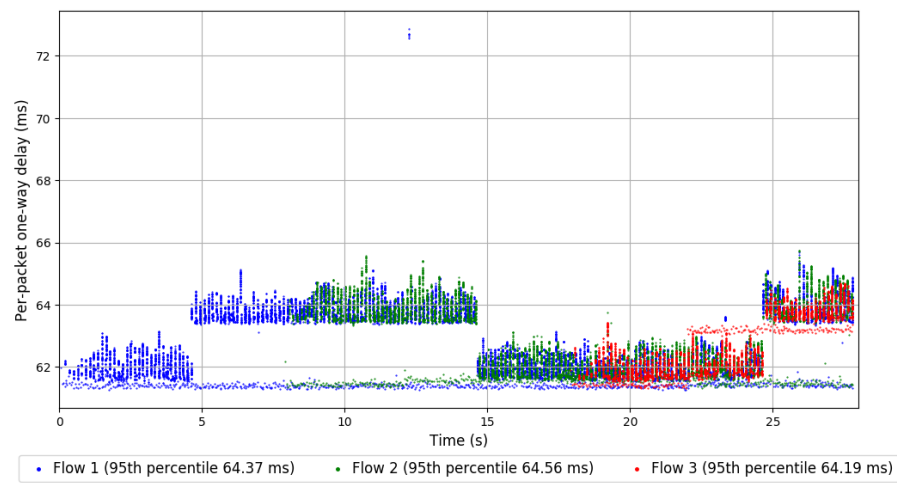
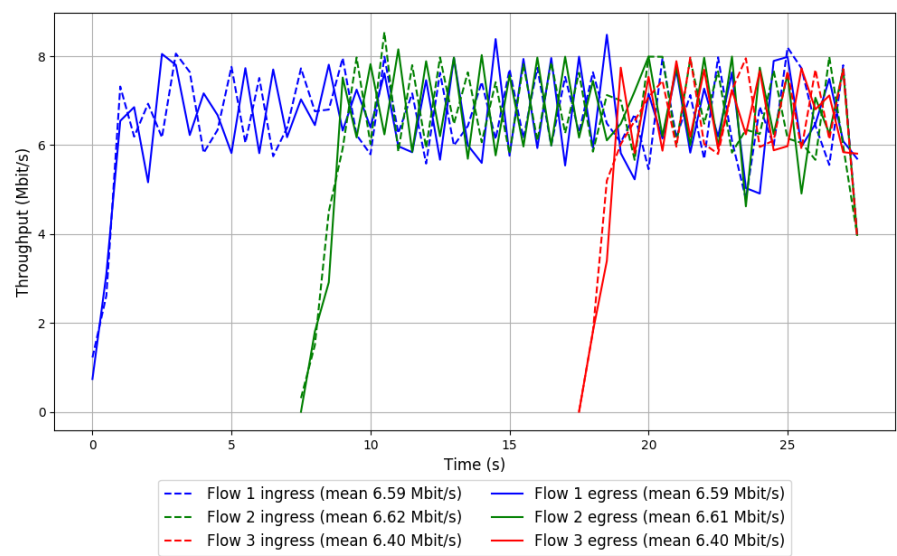
-- Flow 3:

Average throughput: 6.40 Mbit/s

95th percentile per-packet one-way delay: 64.192 ms

Loss rate: 0.00%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-01-03 10:13:08

End at: 2018-01-03 10:13:38

Below is generated by plot.py at 2018-01-03 13:01:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 13.96 Mbit/s

95th percentile per-packet one-way delay: 64.338 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 6.59 Mbit/s

95th percentile per-packet one-way delay: 64.231 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 6.54 Mbit/s

95th percentile per-packet one-way delay: 64.393 ms

Loss rate: 0.00%

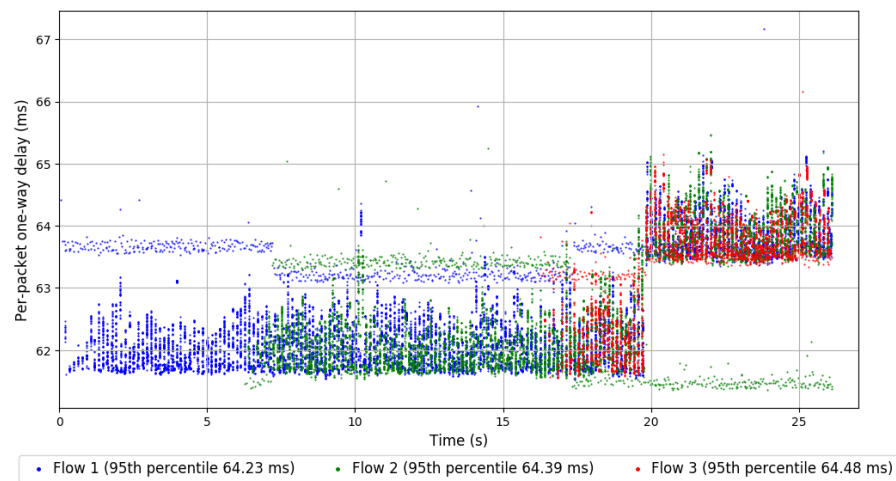
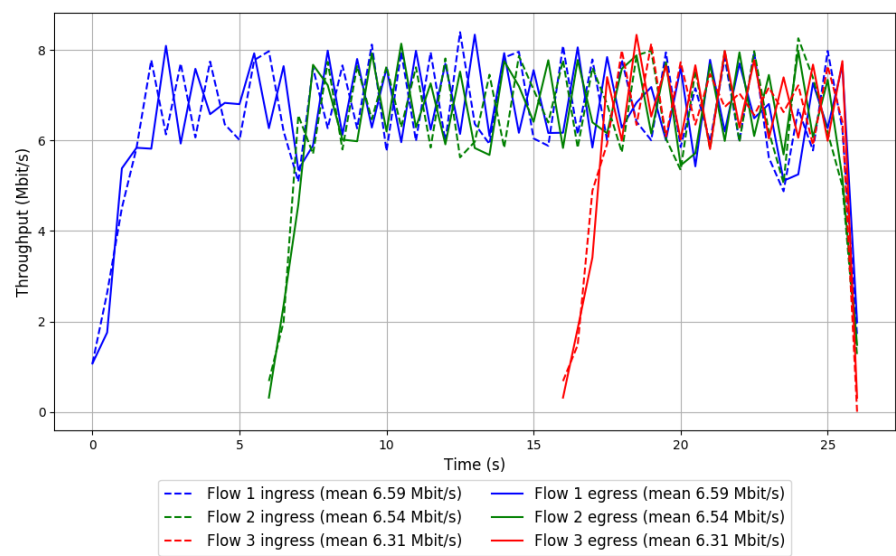
-- Flow 3:

Average throughput: 6.31 Mbit/s

95th percentile per-packet one-way delay: 64.483 ms

Loss rate: 0.11%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-01-03 10:27:28

End at: 2018-01-03 10:27:59

Below is generated by plot.py at 2018-01-03 13:01:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 12.96 Mbit/s

95th percentile per-packet one-way delay: 64.472 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 6.50 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 6.53 Mbit/s

95th percentile per-packet one-way delay: 64.489 ms

Loss rate: 0.00%

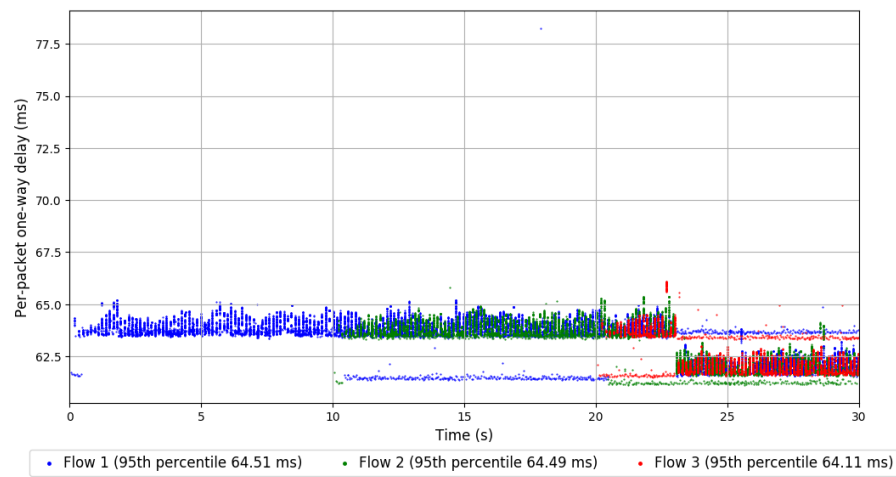
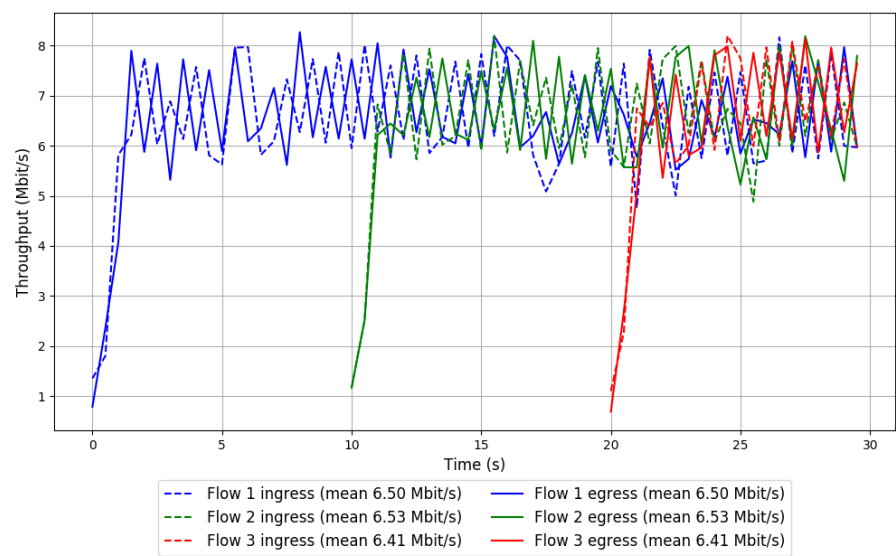
-- Flow 3:

Average throughput: 6.41 Mbit/s

95th percentile per-packet one-way delay: 64.105 ms

Loss rate: 0.00%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-01-03 10:41:42

End at: 2018-01-03 10:42:12

Below is generated by plot.py at 2018-01-03 13:01:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 13.92 Mbit/s

95th percentile per-packet one-way delay: 64.340 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 6.52 Mbit/s

95th percentile per-packet one-way delay: 64.272 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 6.52 Mbit/s

95th percentile per-packet one-way delay: 64.550 ms

Loss rate: 0.00%

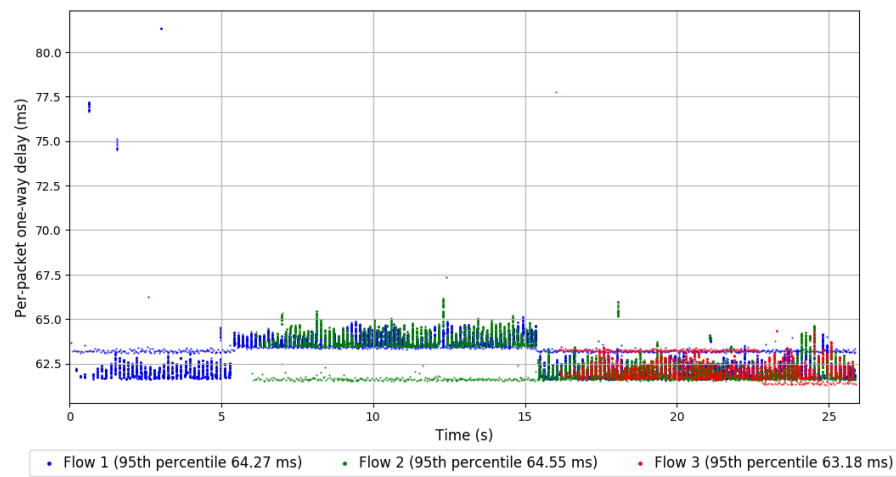
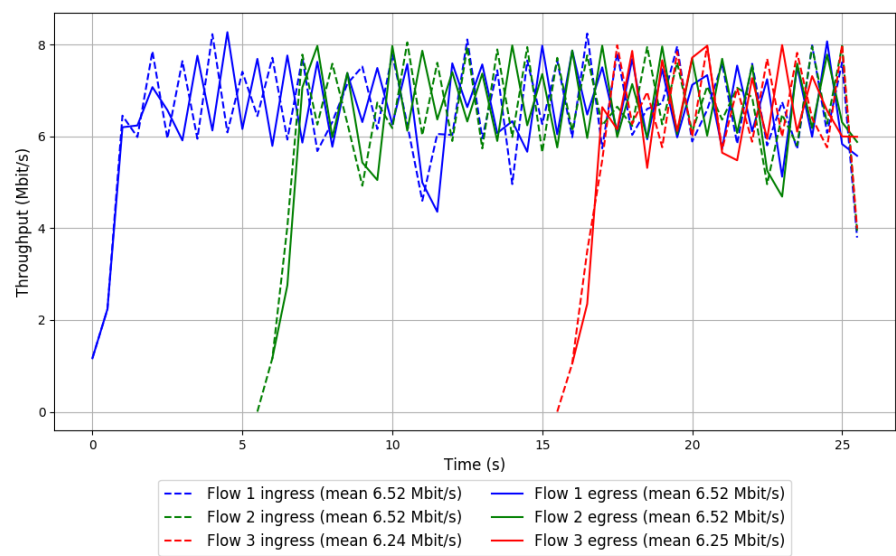
-- Flow 3:

Average throughput: 6.25 Mbit/s

95th percentile per-packet one-way delay: 63.182 ms

Loss rate: 0.00%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-01-03 10:55:41

End at: 2018-01-03 10:56:11

Below is generated by plot.py at 2018-01-03 13:01:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 14.49 Mbit/s

95th percentile per-packet one-way delay: 64.559 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 6.66 Mbit/s

95th percentile per-packet one-way delay: 64.530 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 6.61 Mbit/s

95th percentile per-packet one-way delay: 64.533 ms

Loss rate: 0.00%

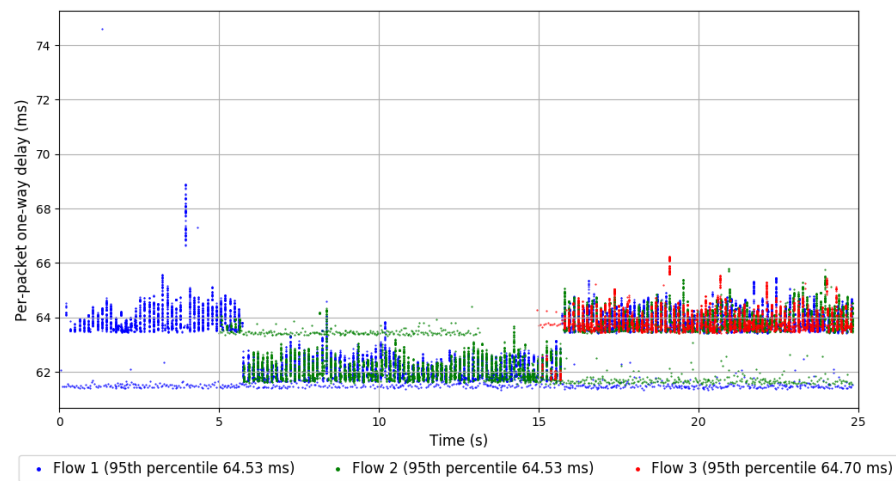
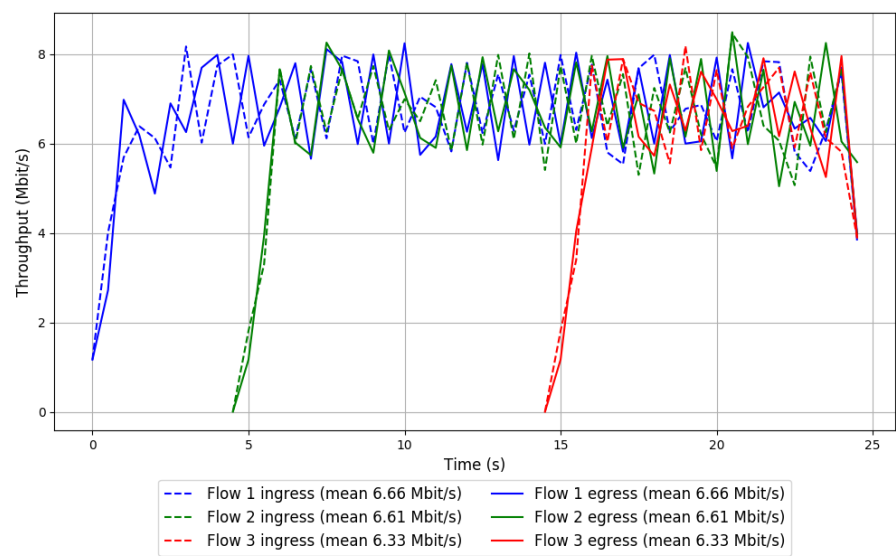
-- Flow 3:

Average throughput: 6.33 Mbit/s

95th percentile per-packet one-way delay: 64.704 ms

Loss rate: 0.00%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-01-03 11:09:43

End at: 2018-01-03 11:10:13

Below is generated by plot.py at 2018-01-03 13:01:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 13.07 Mbit/s

95th percentile per-packet one-way delay: 64.343 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 6.31 Mbit/s

95th percentile per-packet one-way delay: 64.201 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 6.55 Mbit/s

95th percentile per-packet one-way delay: 64.391 ms

Loss rate: 0.05%

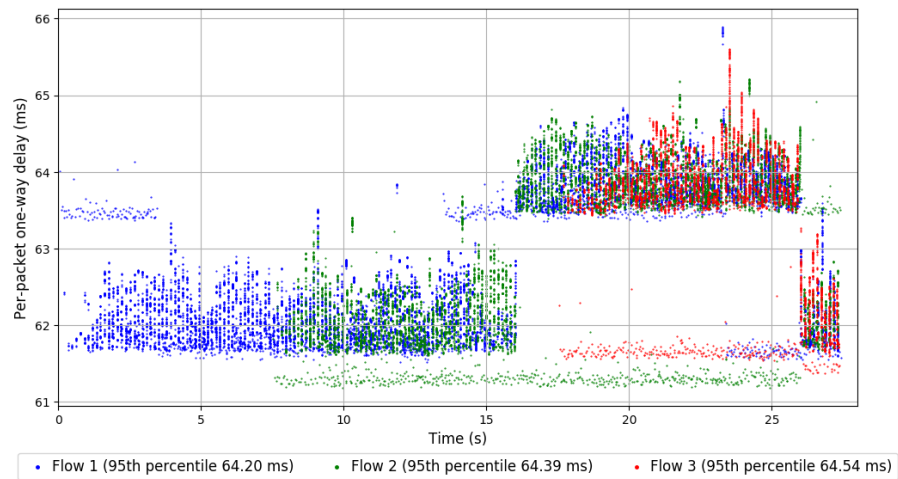
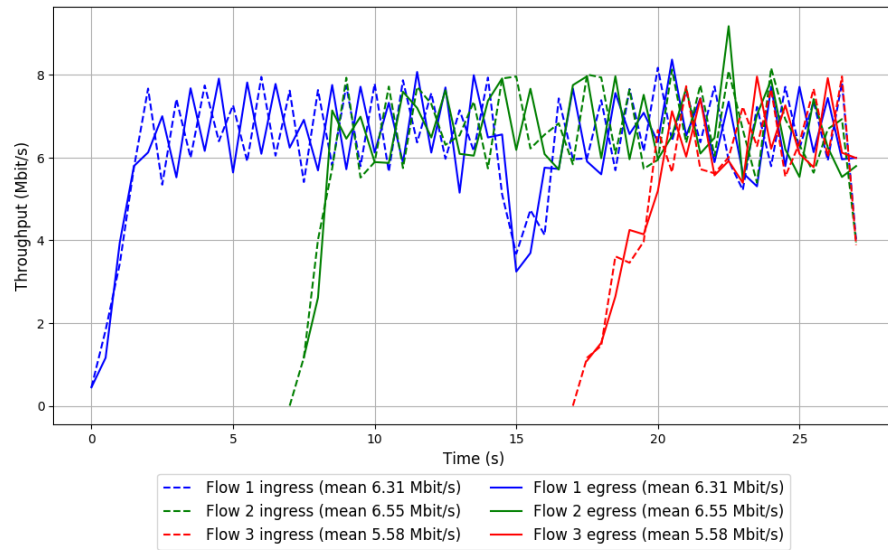
-- Flow 3:

Average throughput: 5.58 Mbit/s

95th percentile per-packet one-way delay: 64.539 ms

Loss rate: 0.00%

Run 10: Report of Sprout — Data Link

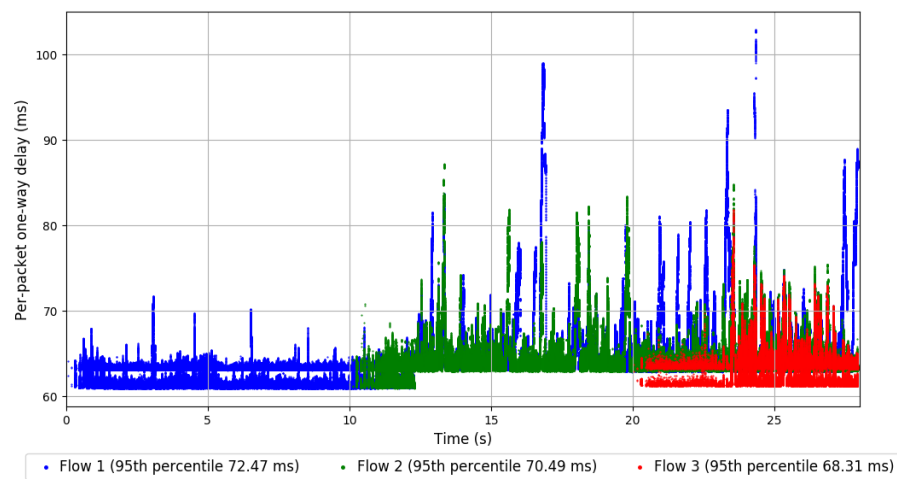
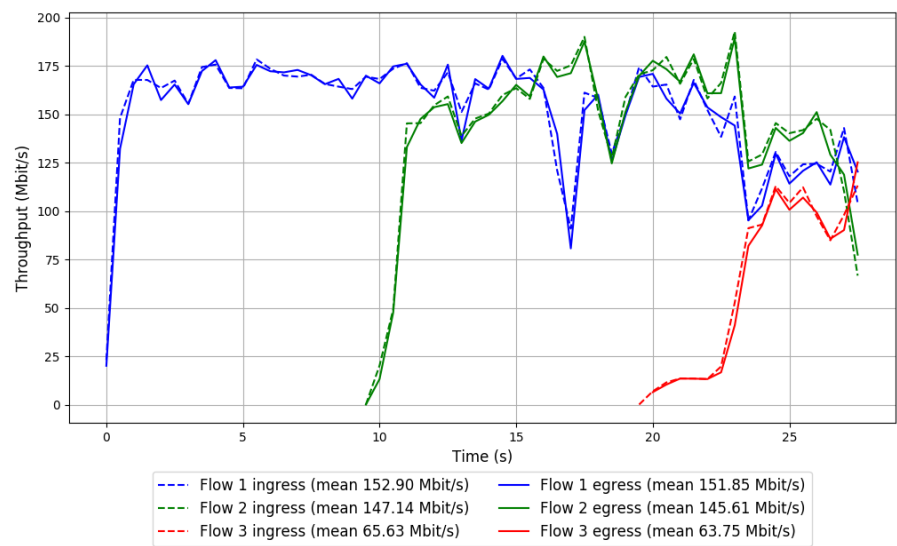


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-01-03 08:58:47
End at: 2018-01-03 08:59:17

# Below is generated by plot.py at 2018-01-03 13:08:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 263.65 Mbit/s
95th percentile per-packet one-way delay: 71.168 ms
Loss rate: 0.96%
-- Flow 1:
Average throughput: 151.85 Mbit/s
95th percentile per-packet one-way delay: 72.472 ms
Loss rate: 0.68%
-- Flow 2:
Average throughput: 145.61 Mbit/s
95th percentile per-packet one-way delay: 70.494 ms
Loss rate: 1.03%
-- Flow 3:
Average throughput: 63.75 Mbit/s
95th percentile per-packet one-way delay: 68.310 ms
Loss rate: 2.85%
```


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

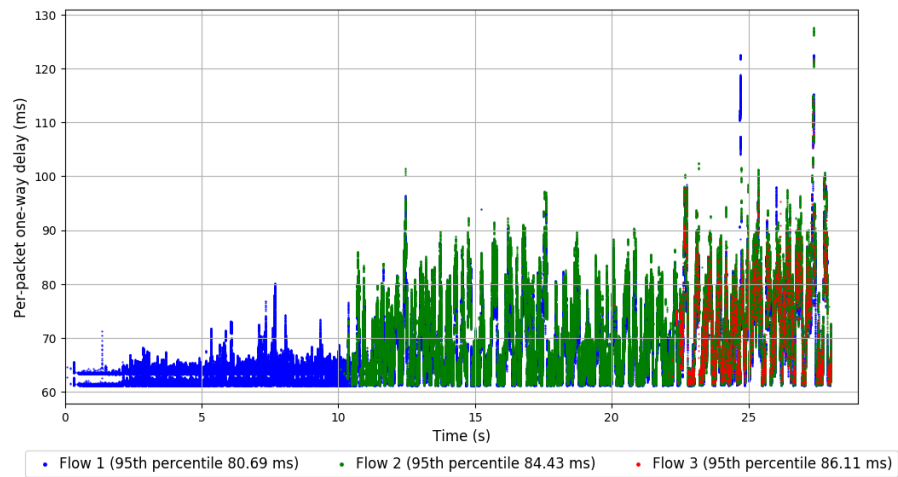
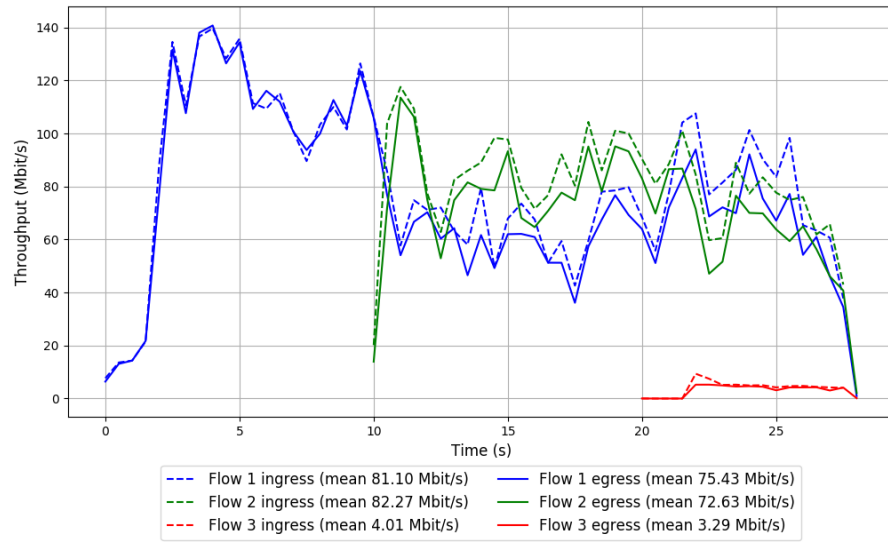


```
Run 2: Statistics of TaoVA-100x

Start at: 2018-01-03 09:11:18
End at: 2018-01-03 09:11:48

# Below is generated by plot.py at 2018-01-03 13:08:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 122.96 Mbit/s
95th percentile per-packet one-way delay: 82.493 ms
Loss rate: 8.93%
-- Flow 1:
Average throughput: 75.43 Mbit/s
95th percentile per-packet one-way delay: 80.694 ms
Loss rate: 6.98%
-- Flow 2:
Average throughput: 72.63 Mbit/s
95th percentile per-packet one-way delay: 84.433 ms
Loss rate: 11.73%
-- Flow 3:
Average throughput: 3.29 Mbit/s
95th percentile per-packet one-way delay: 86.110 ms
Loss rate: 17.89%
```

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

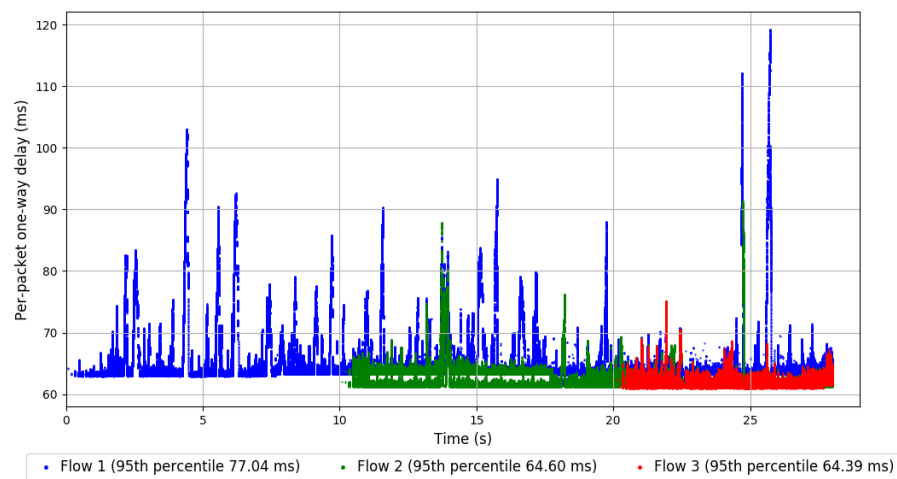
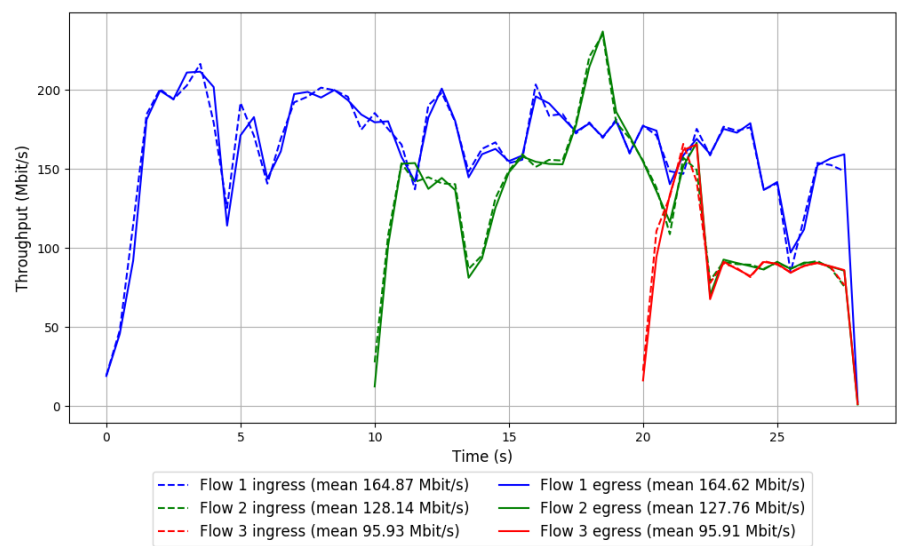


```
Run 3: Statistics of TaoVA-100x

Start at: 2018-01-03 09:23:52
End at: 2018-01-03 09:24:22

# Below is generated by plot.py at 2018-01-03 13:08:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 273.75 Mbit/s
95th percentile per-packet one-way delay: 72.968 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 164.62 Mbit/s
95th percentile per-packet one-way delay: 77.040 ms
Loss rate: 0.15%
-- Flow 2:
Average throughput: 127.76 Mbit/s
95th percentile per-packet one-way delay: 64.598 ms
Loss rate: 0.29%
-- Flow 3:
Average throughput: 95.91 Mbit/s
95th percentile per-packet one-way delay: 64.391 ms
Loss rate: 0.01%
```

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-01-03 09:37:12

End at: 2018-01-03 09:37:42

Below is generated by plot.py at 2018-01-03 13:09:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 315.28 Mbit/s

95th percentile per-packet one-way delay: 65.706 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 157.56 Mbit/s

95th percentile per-packet one-way delay: 65.075 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 178.30 Mbit/s

95th percentile per-packet one-way delay: 66.089 ms

Loss rate: 0.00%

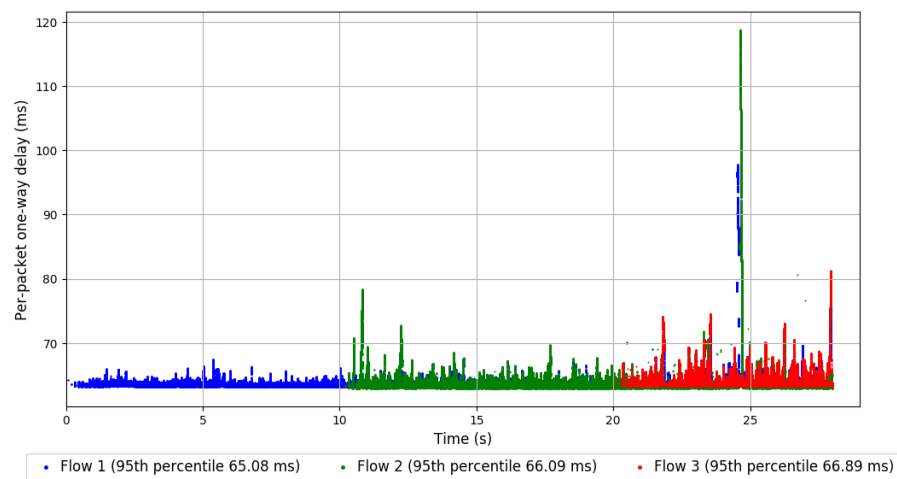
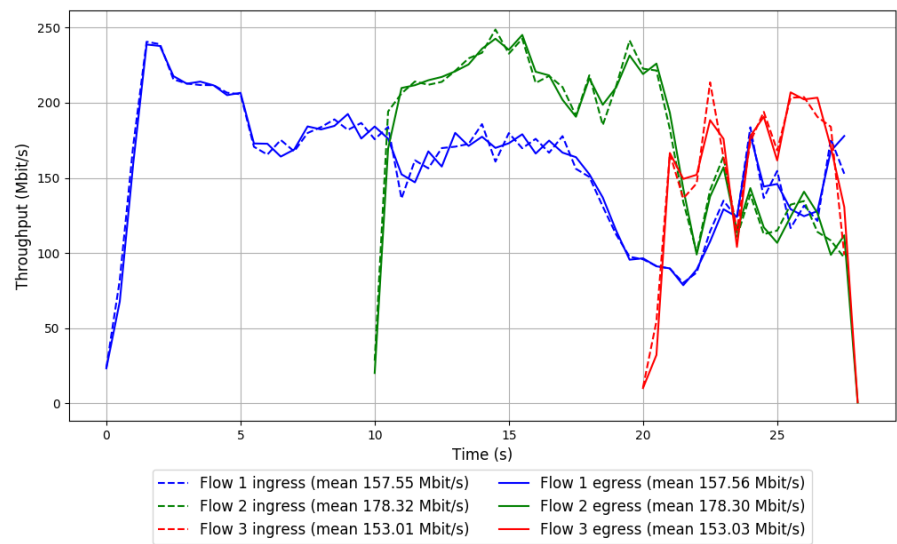
-- Flow 3:

Average throughput: 153.03 Mbit/s

95th percentile per-packet one-way delay: 66.895 ms

Loss rate: 0.00%

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

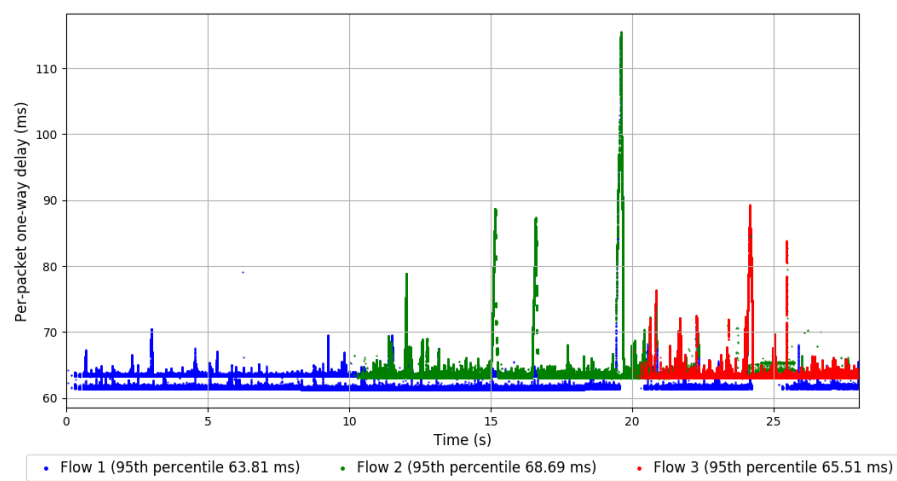
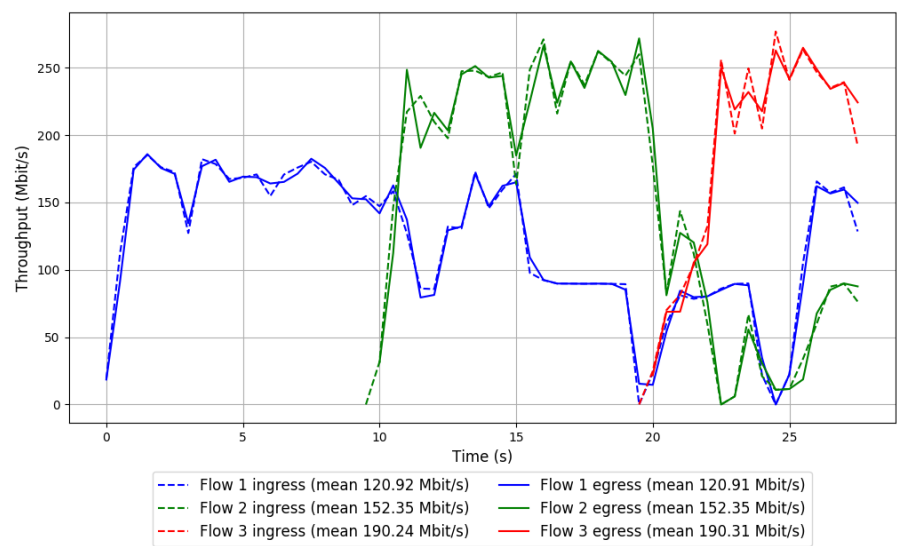


```
Run 5: Statistics of TaoVA-100x

Start at: 2018-01-03 09:51:19
End at: 2018-01-03 09:51:49

# Below is generated by plot.py at 2018-01-03 13:09:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 272.84 Mbit/s
95th percentile per-packet one-way delay: 65.292 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 120.91 Mbit/s
95th percentile per-packet one-way delay: 63.808 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 152.35 Mbit/s
95th percentile per-packet one-way delay: 68.692 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 190.31 Mbit/s
95th percentile per-packet one-way delay: 65.513 ms
Loss rate: 0.00%
```


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



Run 6: Statistics of TaoVA-100x

Start at: 2018-01-03 10:04:59

End at: 2018-01-03 10:05:29

Below is generated by plot.py at 2018-01-03 13:09:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 195.60 Mbit/s

95th percentile per-packet one-way delay: 63.823 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 132.05 Mbit/s

95th percentile per-packet one-way delay: 63.663 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 15.01 Mbit/s

95th percentile per-packet one-way delay: 63.603 ms

Loss rate: 0.00%

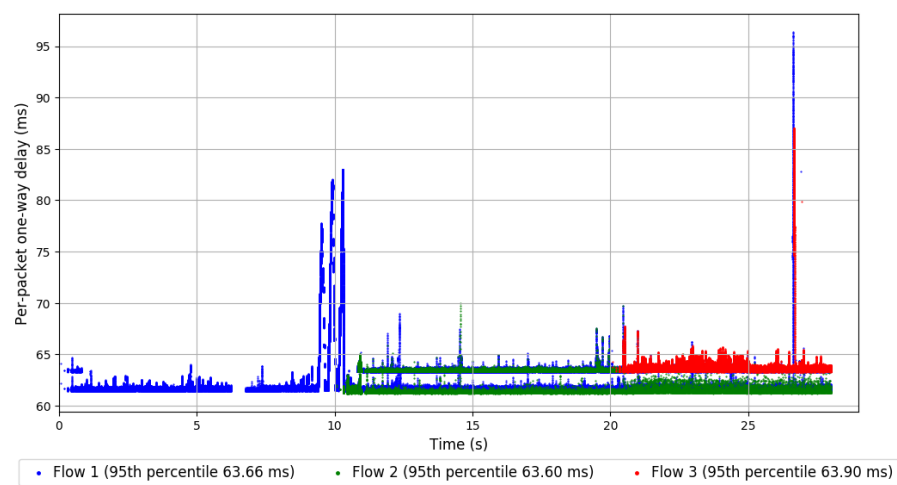
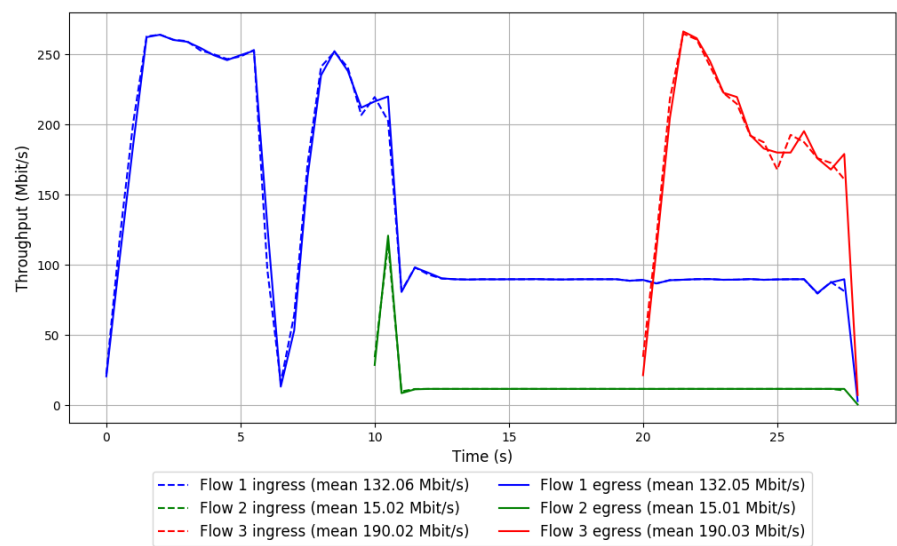
-- Flow 3:

Average throughput: 190.03 Mbit/s

95th percentile per-packet one-way delay: 63.897 ms

Loss rate: 0.00%

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

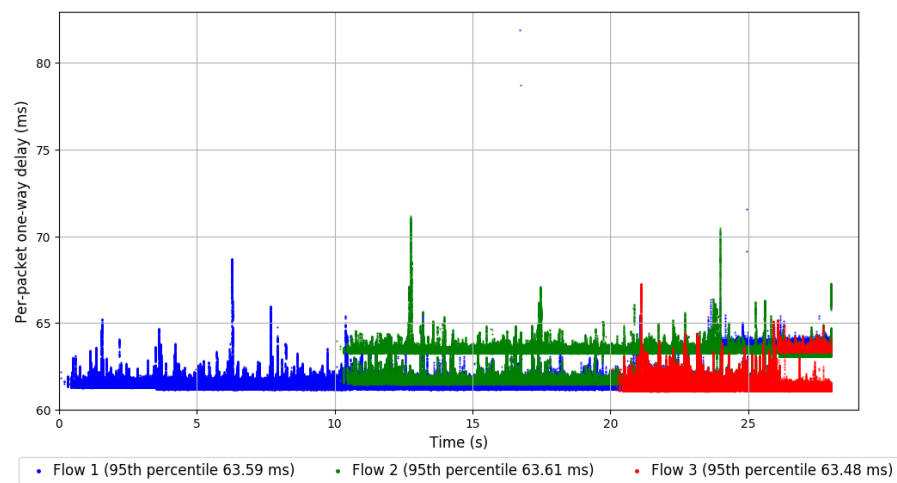
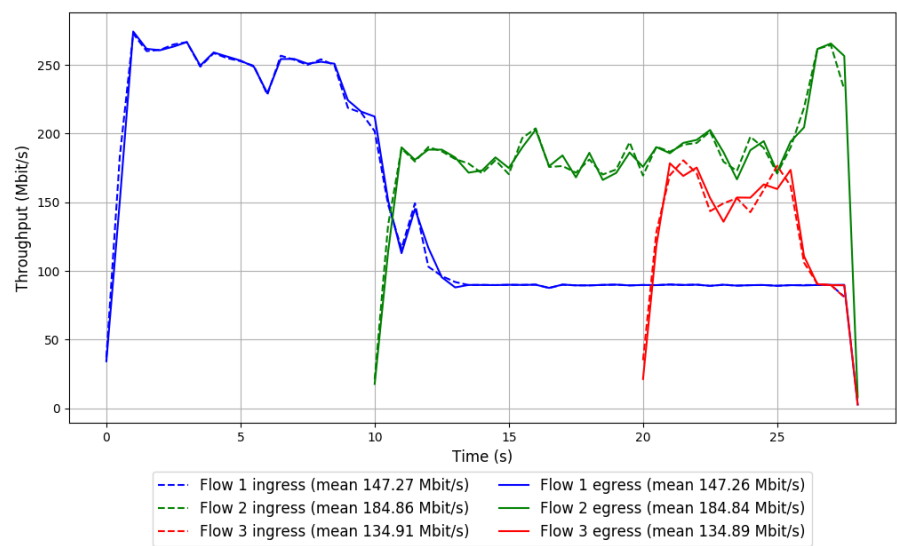


```
Run 7: Statistics of TaoVA-100x

Start at: 2018-01-03 10:19:03
End at: 2018-01-03 10:19:33

# Below is generated by plot.py at 2018-01-03 13:09:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 304.16 Mbit/s
95th percentile per-packet one-way delay: 63.587 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 147.26 Mbit/s
95th percentile per-packet one-way delay: 63.594 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 184.84 Mbit/s
95th percentile per-packet one-way delay: 63.610 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 134.89 Mbit/s
95th percentile per-packet one-way delay: 63.482 ms
Loss rate: 0.00%
```

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-01-03 10:33:20

End at: 2018-01-03 10:33:50

Below is generated by plot.py at 2018-01-03 13:09:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 283.75 Mbit/s

95th percentile per-packet one-way delay: 63.569 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 161.85 Mbit/s

95th percentile per-packet one-way delay: 63.500 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 143.71 Mbit/s

95th percentile per-packet one-way delay: 63.633 ms

Loss rate: 0.00%

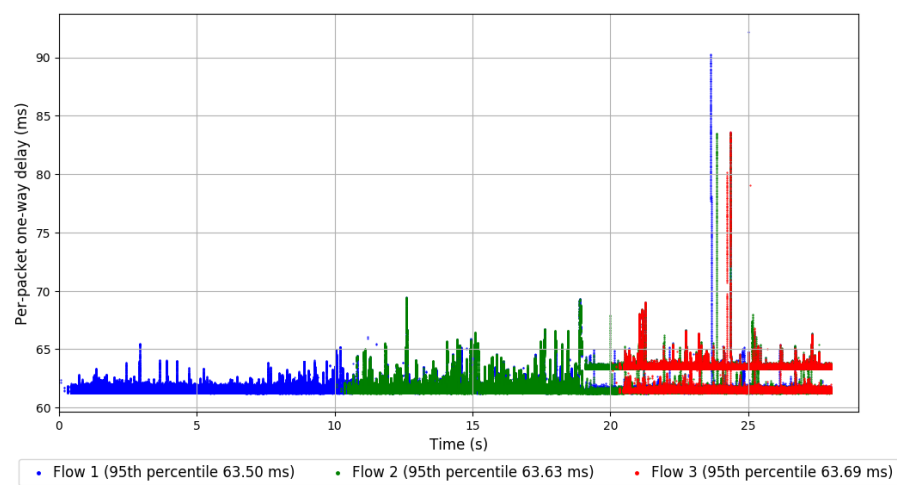
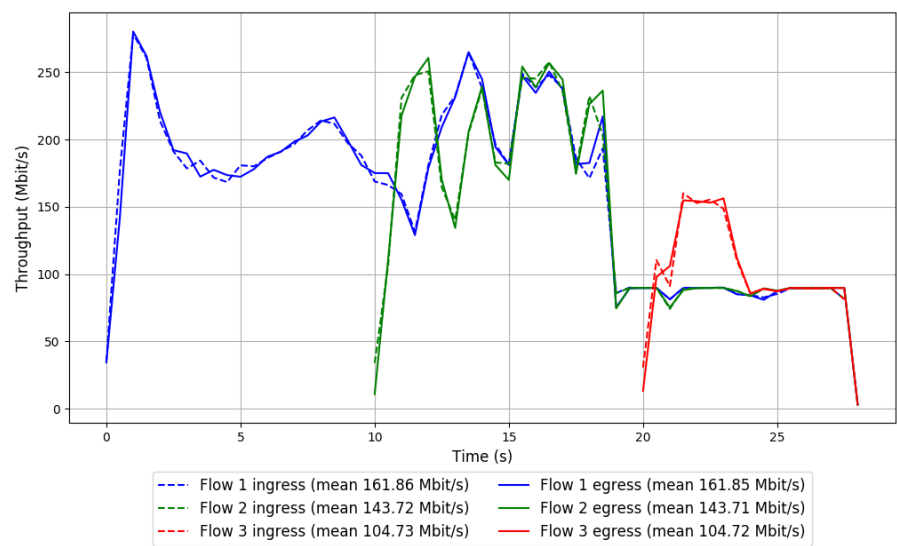
-- Flow 3:

Average throughput: 104.72 Mbit/s

95th percentile per-packet one-way delay: 63.688 ms

Loss rate: 0.00%

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

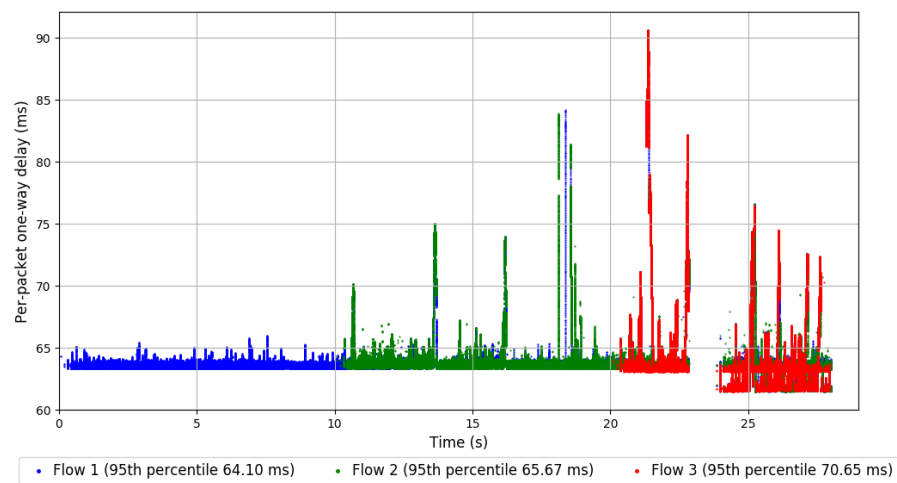
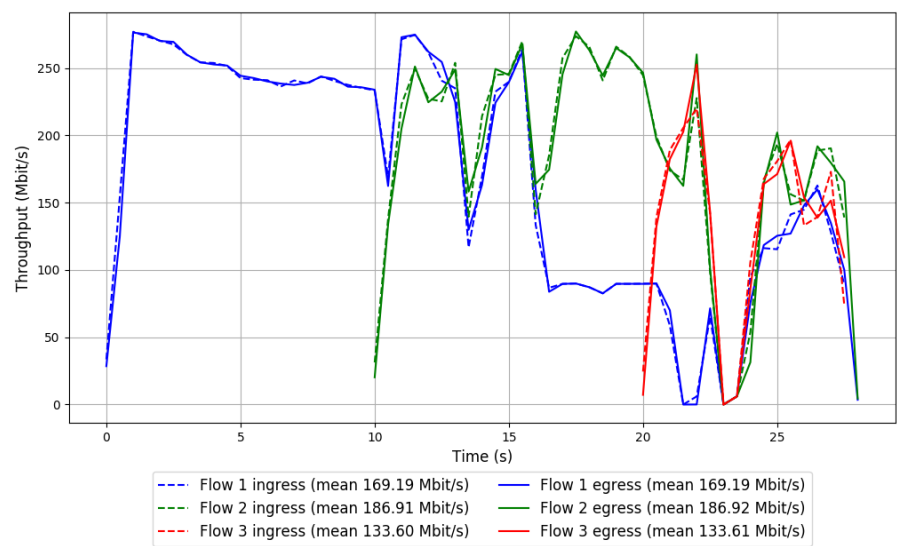


```
Run 9: Statistics of TaoVA-100x

Start at: 2018-01-03 10:47:26
End at: 2018-01-03 10:47:56

# Below is generated by plot.py at 2018-01-03 13:14:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 326.67 Mbit/s
95th percentile per-packet one-way delay: 65.250 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 169.19 Mbit/s
95th percentile per-packet one-way delay: 64.103 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 186.92 Mbit/s
95th percentile per-packet one-way delay: 65.672 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 133.61 Mbit/s
95th percentile per-packet one-way delay: 70.654 ms
Loss rate: 0.00%
```


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

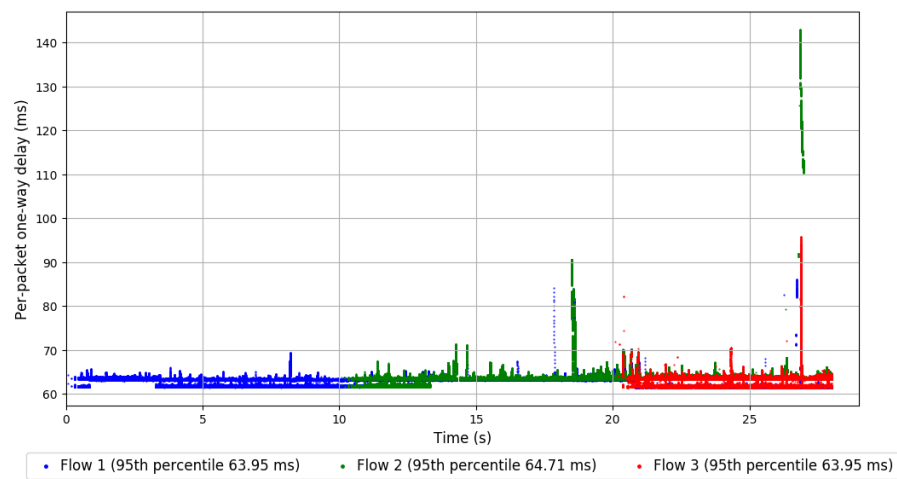
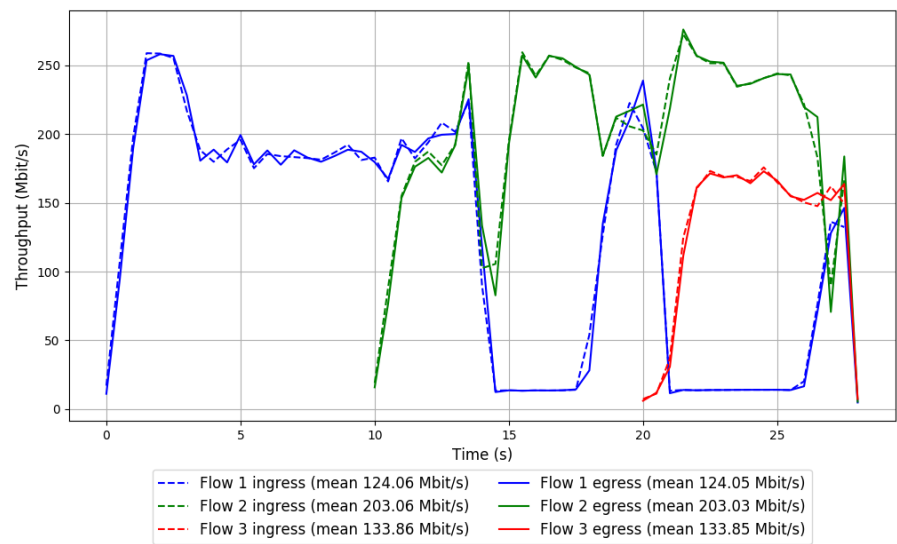


```
Run 10: Statistics of TaoVA-100x

Start at: 2018-01-03 11:01:26
End at: 2018-01-03 11:01:56

# Below is generated by plot.py at 2018-01-03 13:15:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 292.32 Mbit/s
95th percentile per-packet one-way delay: 64.263 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 124.05 Mbit/s
95th percentile per-packet one-way delay: 63.945 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 203.03 Mbit/s
95th percentile per-packet one-way delay: 64.712 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 133.85 Mbit/s
95th percentile per-packet one-way delay: 63.947 ms
Loss rate: 0.03%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2018-01-03 09:03:02

End at: 2018-01-03 09:03:32

Below is generated by plot.py at 2018-01-03 13:15:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 49.65 Mbit/s

95th percentile per-packet one-way delay: 66.386 ms

Loss rate: 0.48%

-- Flow 1:

Average throughput: 10.59 Mbit/s

95th percentile per-packet one-way delay: 64.973 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 44.68 Mbit/s

95th percentile per-packet one-way delay: 66.995 ms

Loss rate: 0.71%

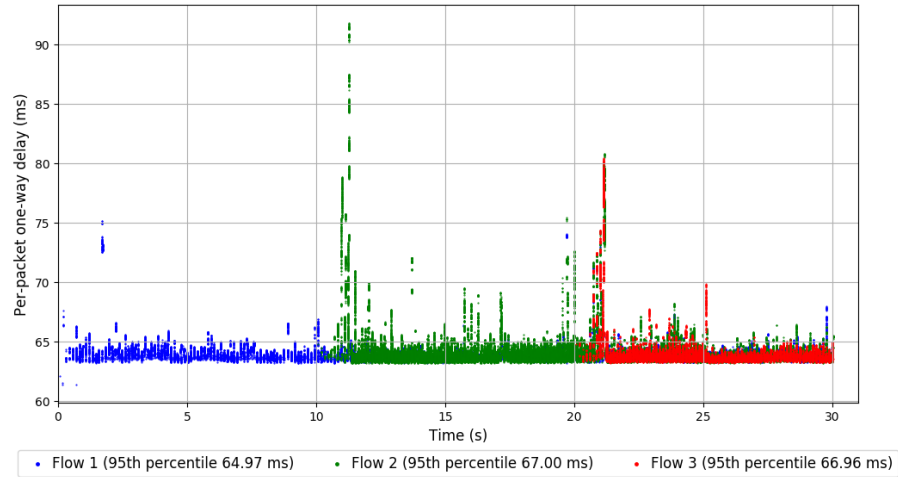
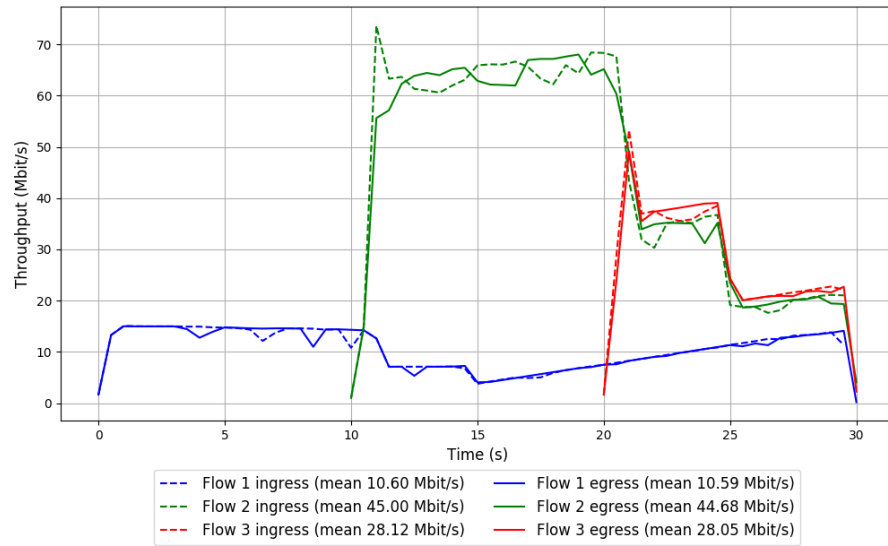
-- Flow 3:

Average throughput: 28.05 Mbit/s

95th percentile per-packet one-way delay: 66.961 ms

Loss rate: 0.26%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-01-03 09:15:29

End at: 2018-01-03 09:15:59

Below is generated by plot.py at 2018-01-03 13:15:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 24.37 Mbit/s

95th percentile per-packet one-way delay: 66.253 ms

Loss rate: 0.48%

-- Flow 1:

Average throughput: 8.04 Mbit/s

95th percentile per-packet one-way delay: 64.760 ms

Loss rate: 0.22%

-- Flow 2:

Average throughput: 14.74 Mbit/s

95th percentile per-packet one-way delay: 65.873 ms

Loss rate: 0.11%

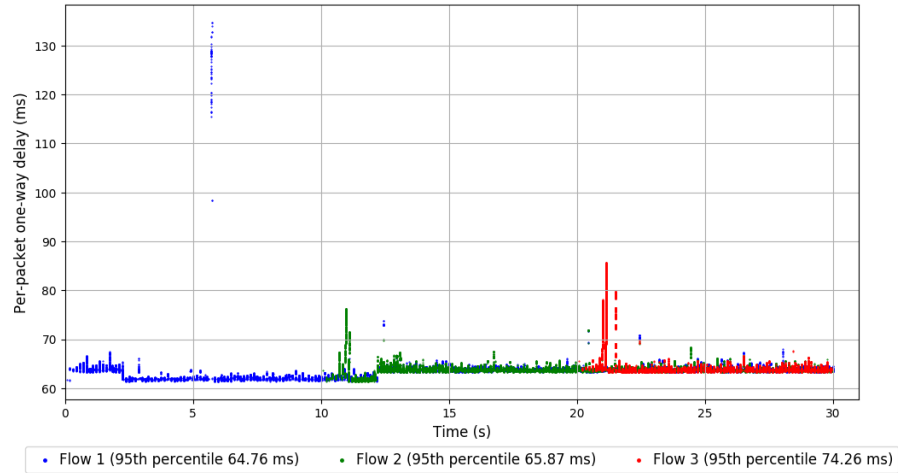
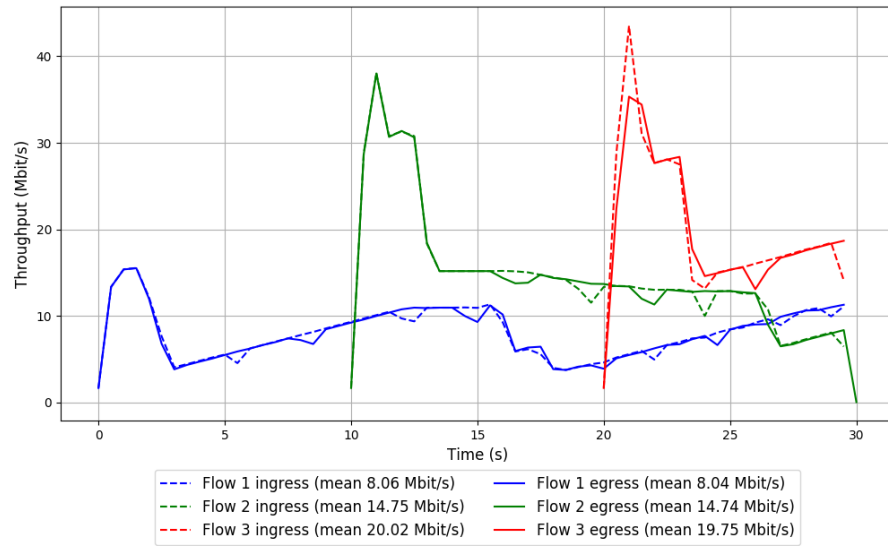
-- Flow 3:

Average throughput: 19.75 Mbit/s

95th percentile per-packet one-way delay: 74.257 ms

Loss rate: 1.36%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-01-03 09:28:23

End at: 2018-01-03 09:28:53

Below is generated by plot.py at 2018-01-03 13:15:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.60 Mbit/s

95th percentile per-packet one-way delay: 64.846 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 44.70 Mbit/s

95th percentile per-packet one-way delay: 64.856 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 54.29 Mbit/s

95th percentile per-packet one-way delay: 64.788 ms

Loss rate: 0.00%

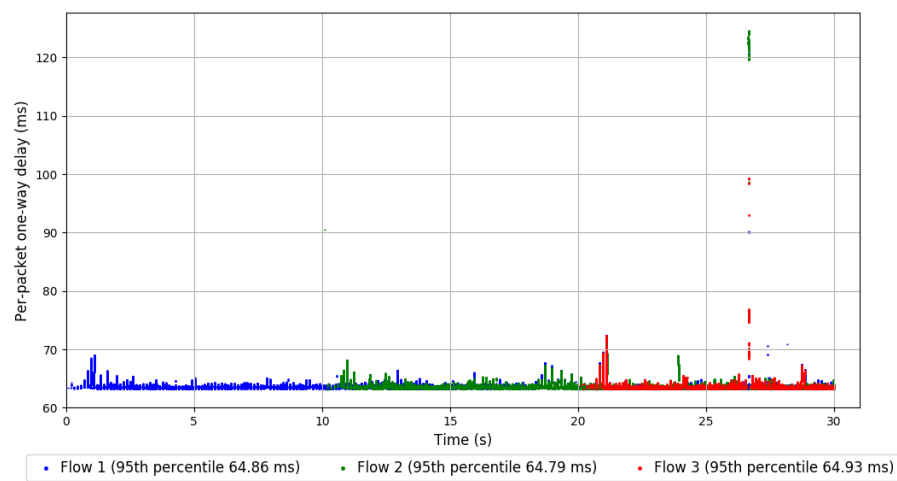
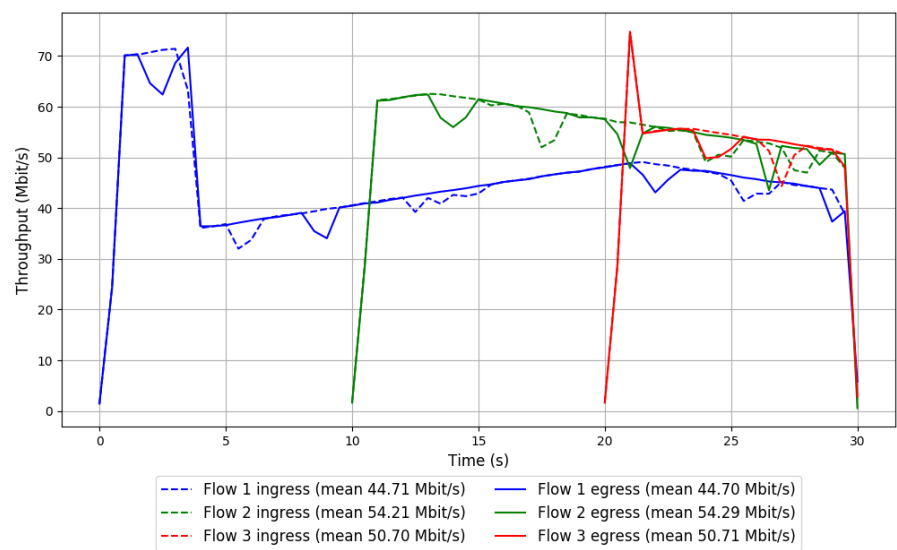
-- Flow 3:

Average throughput: 50.71 Mbit/s

95th percentile per-packet one-way delay: 64.933 ms

Loss rate: 0.00%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-01-03 09:41:49

End at: 2018-01-03 09:42:19

Below is generated by plot.py at 2018-01-03 13:15:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 113.49 Mbit/s

95th percentile per-packet one-way delay: 64.853 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 16.84 Mbit/s

95th percentile per-packet one-way delay: 64.221 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 117.02 Mbit/s

95th percentile per-packet one-way delay: 64.984 ms

Loss rate: 0.00%

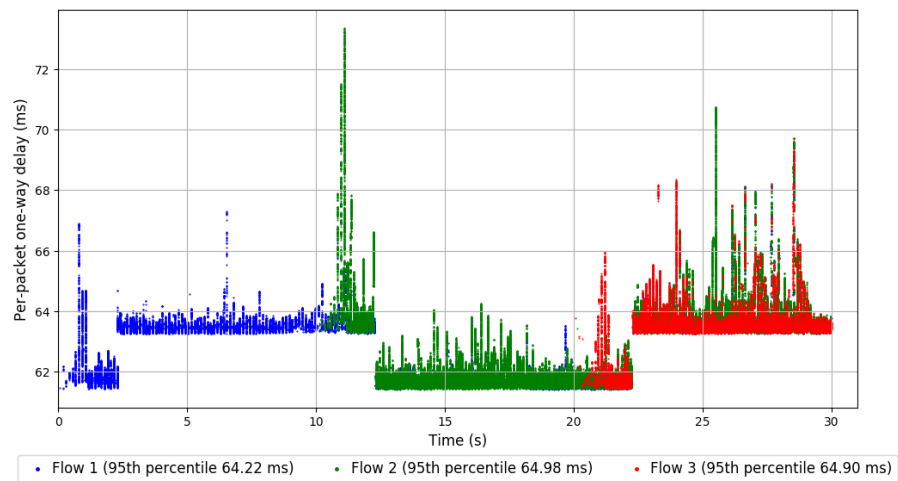
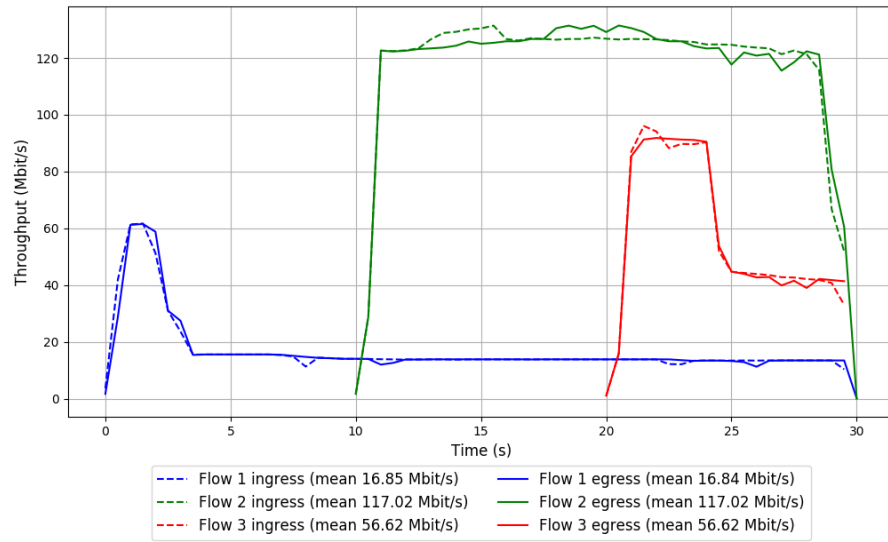
-- Flow 3:

Average throughput: 56.62 Mbit/s

95th percentile per-packet one-way delay: 64.898 ms

Loss rate: 0.00%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-01-03 09:55:54

End at: 2018-01-03 09:56:24

Below is generated by plot.py at 2018-01-03 13:15:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 101.19 Mbit/s

95th percentile per-packet one-way delay: 65.146 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 77.76 Mbit/s

95th percentile per-packet one-way delay: 65.372 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 14.68 Mbit/s

95th percentile per-packet one-way delay: 64.739 ms

Loss rate: 0.00%

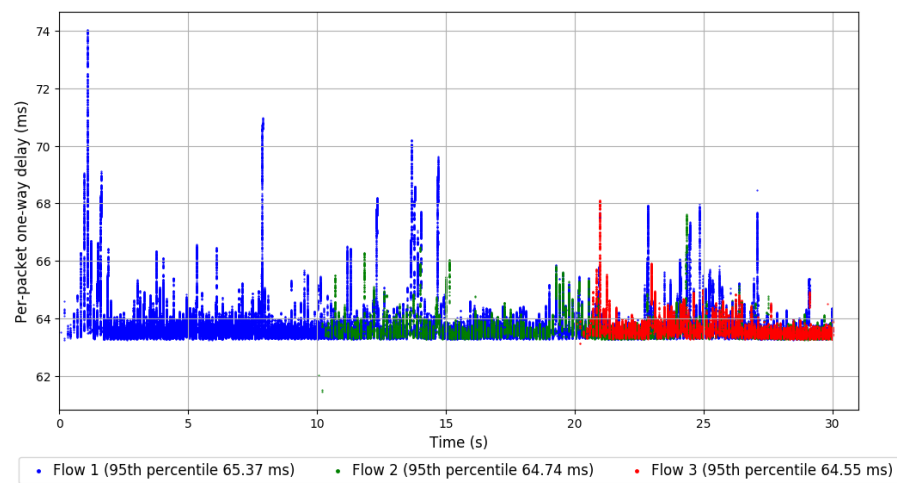
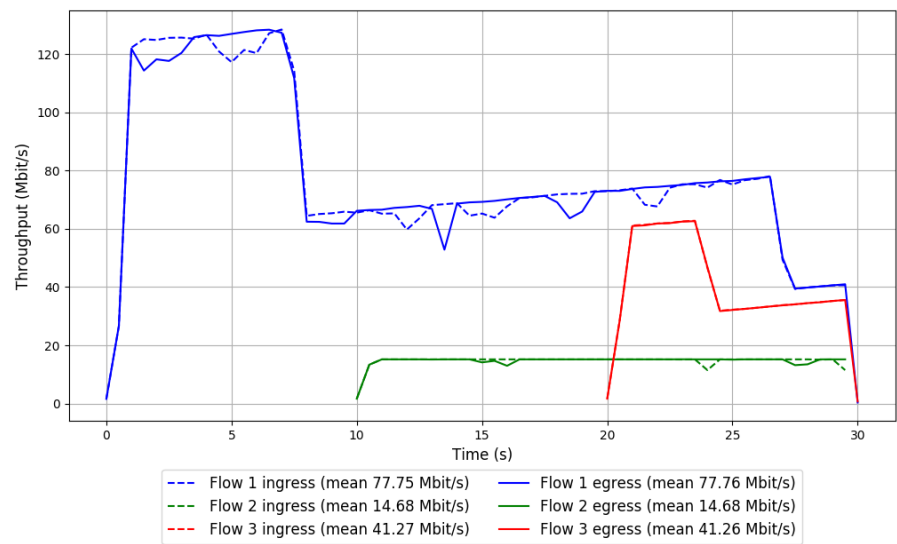
-- Flow 3:

Average throughput: 41.26 Mbit/s

95th percentile per-packet one-way delay: 64.554 ms

Loss rate: 0.01%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-01-03 10:09:30

End at: 2018-01-03 10:10:00

Below is generated by plot.py at 2018-01-03 13:15:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 25.38 Mbit/s

95th percentile per-packet one-way delay: 64.342 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 11.81 Mbit/s

95th percentile per-packet one-way delay: 64.235 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 18.37 Mbit/s

95th percentile per-packet one-way delay: 64.468 ms

Loss rate: 0.00%

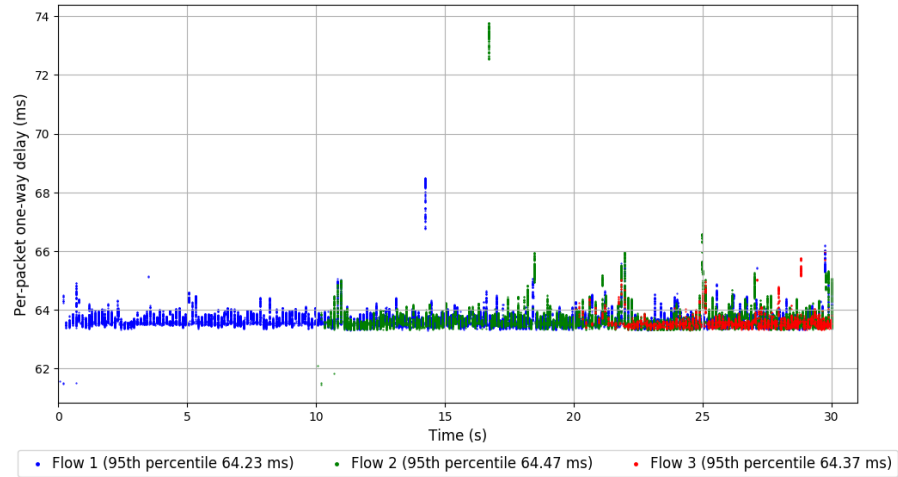
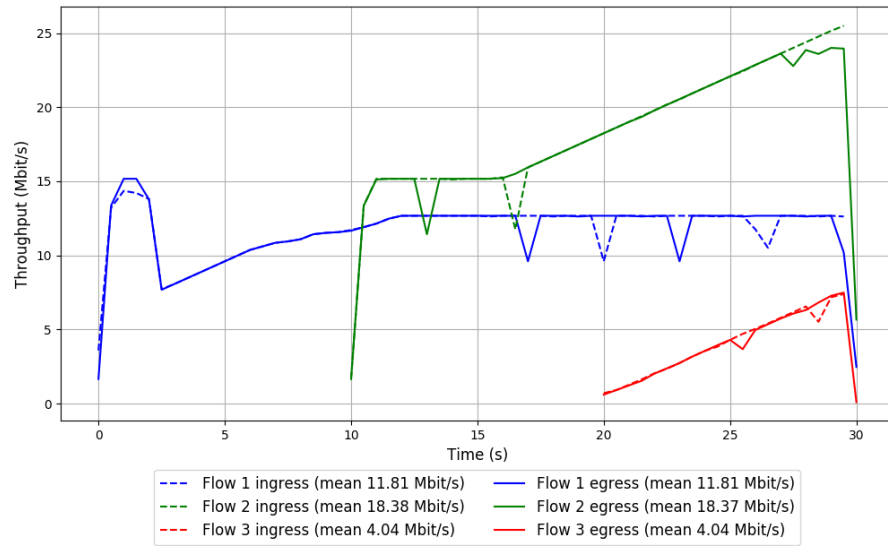
-- Flow 3:

Average throughput: 4.04 Mbit/s

95th percentile per-packet one-way delay: 64.369 ms

Loss rate: 0.12%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-01-03 10:23:46

End at: 2018-01-03 10:24:16

Below is generated by plot.py at 2018-01-03 13:15:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 163.14 Mbit/s

95th percentile per-packet one-way delay: 70.771 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 71.96 Mbit/s

95th percentile per-packet one-way delay: 68.330 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 52.32 Mbit/s

95th percentile per-packet one-way delay: 69.212 ms

Loss rate: 0.01%

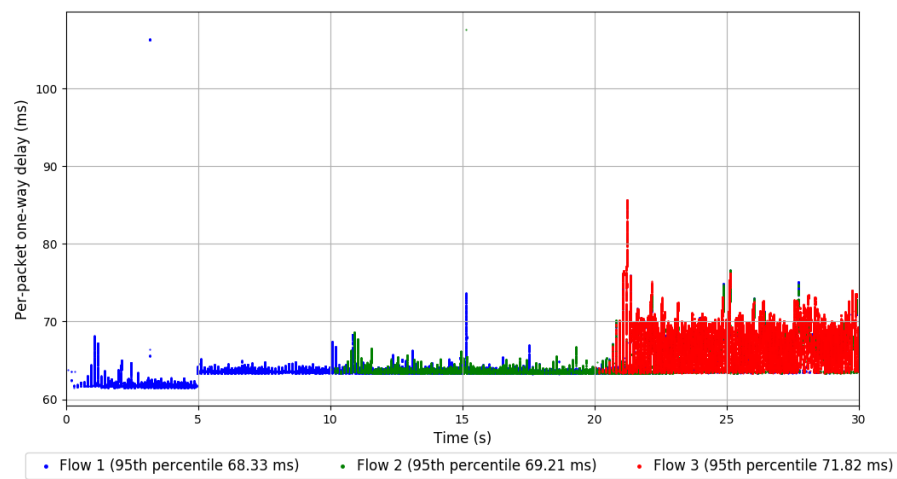
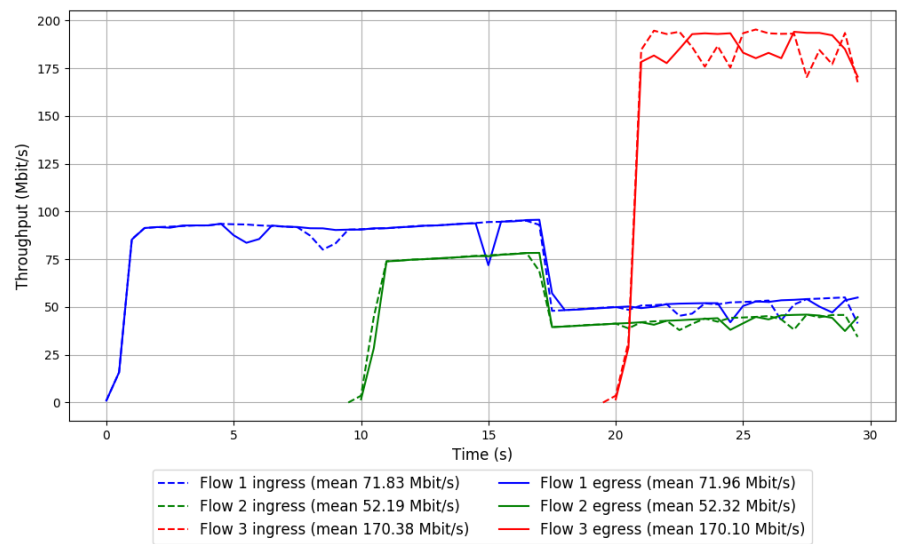
-- Flow 3:

Average throughput: 170.10 Mbit/s

95th percentile per-packet one-way delay: 71.820 ms

Loss rate: 0.16%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-01-03 10:38:01

End at: 2018-01-03 10:38:31

Below is generated by plot.py at 2018-01-03 13:15:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 116.05 Mbit/s

95th percentile per-packet one-way delay: 70.231 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 84.47 Mbit/s

95th percentile per-packet one-way delay: 70.745 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 14.55 Mbit/s

95th percentile per-packet one-way delay: 64.557 ms

Loss rate: 0.00%

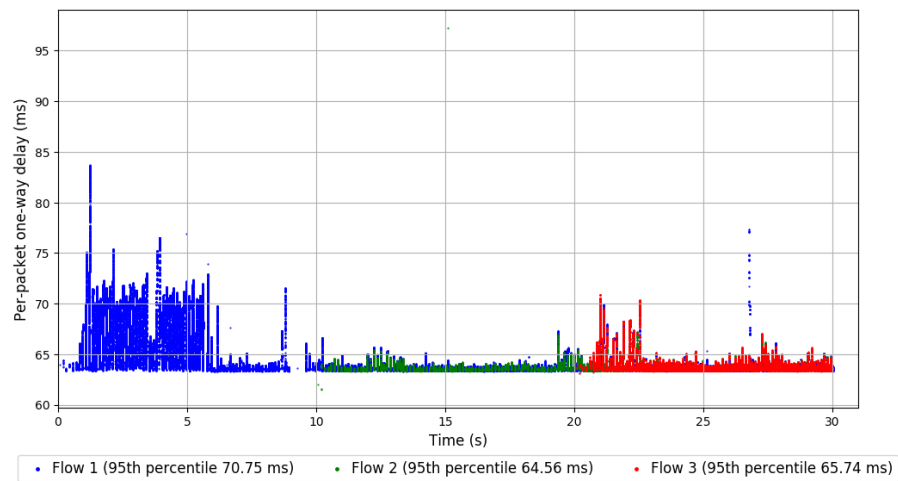
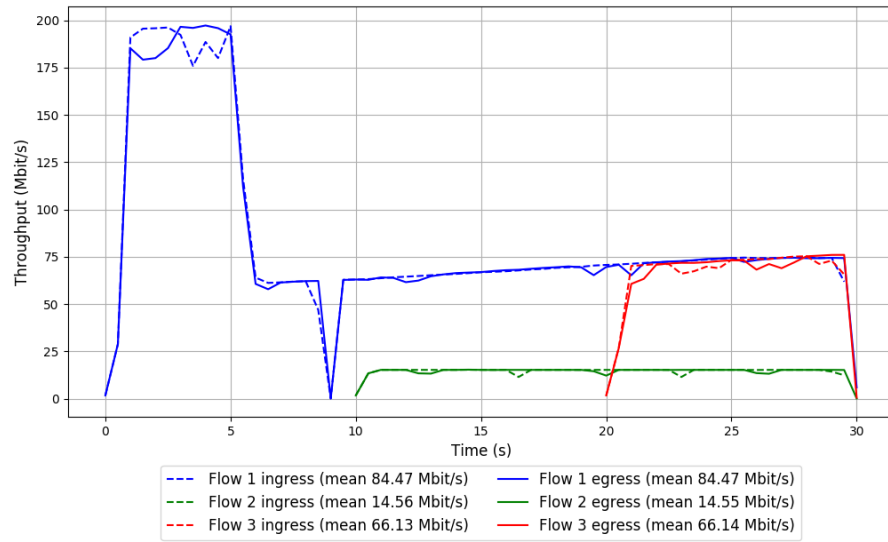
-- Flow 3:

Average throughput: 66.14 Mbit/s

95th percentile per-packet one-way delay: 65.736 ms

Loss rate: 0.00%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-01-03 10:52:02

End at: 2018-01-03 10:52:32

Below is generated by plot.py at 2018-01-03 13:15:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 108.67 Mbit/s

95th percentile per-packet one-way delay: 64.974 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 65.16 Mbit/s

95th percentile per-packet one-way delay: 64.396 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 18.72 Mbit/s

95th percentile per-packet one-way delay: 64.574 ms

Loss rate: 0.00%

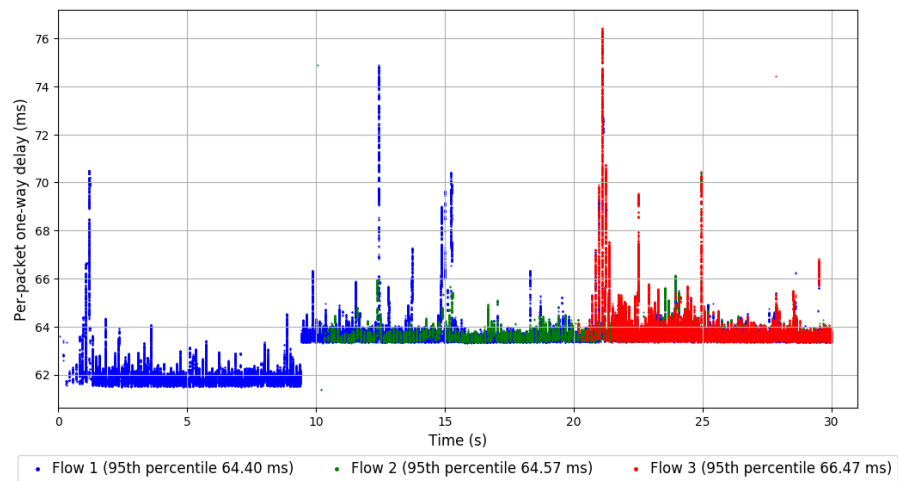
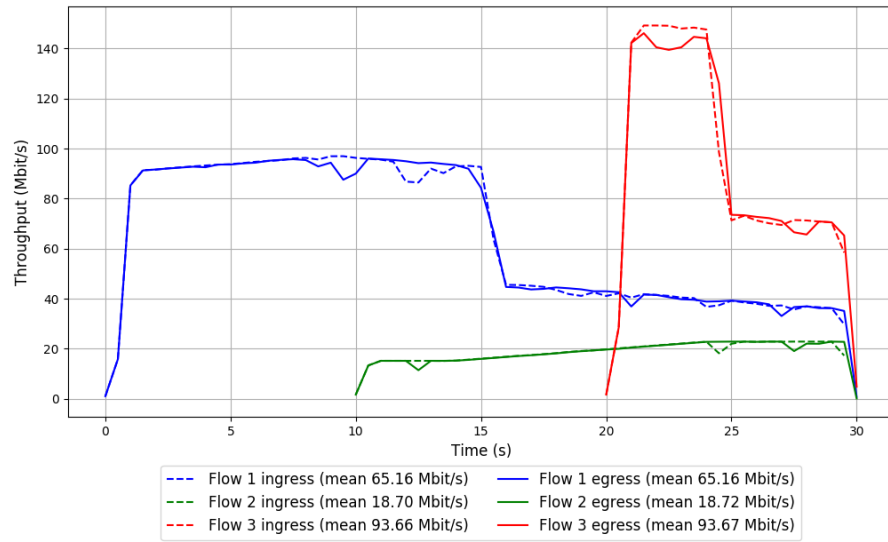
-- Flow 3:

Average throughput: 93.67 Mbit/s

95th percentile per-packet one-way delay: 66.470 ms

Loss rate: 0.00%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

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

End at: 2018-01-03 11:06:31

Below is generated by plot.py at 2018-01-03 13:15:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 132.86 Mbit/s

95th percentile per-packet one-way delay: 65.215 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 98.54 Mbit/s

95th percentile per-packet one-way delay: 65.223 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 14.58 Mbit/s

95th percentile per-packet one-way delay: 64.199 ms

Loss rate: 0.00%

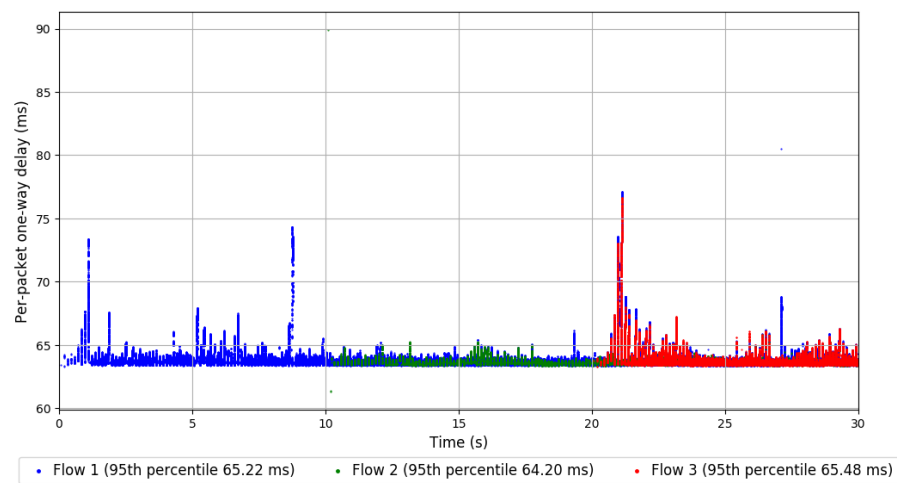
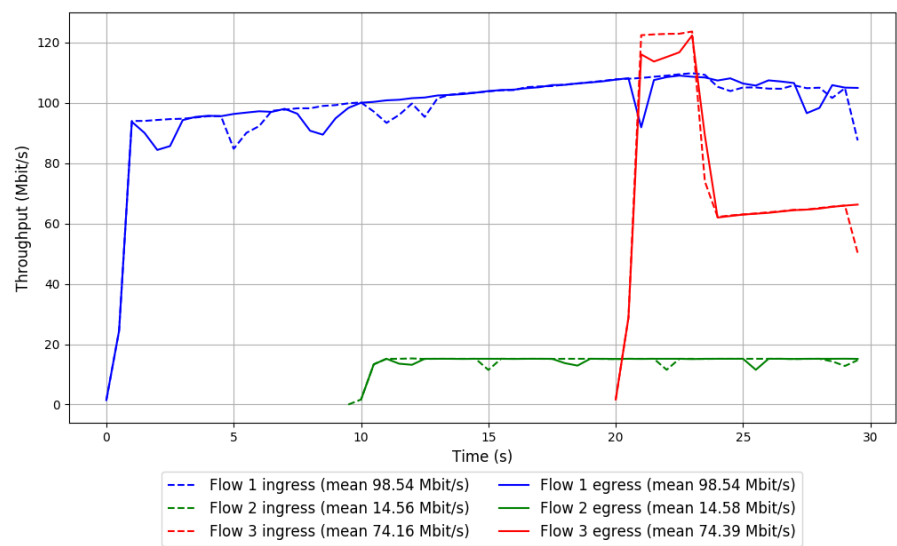
-- Flow 3:

Average throughput: 74.39 Mbit/s

95th percentile per-packet one-way delay: 65.477 ms

Loss rate: 0.03%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-01-03 09:04:28

End at: 2018-01-03 09:04:58

Below is generated by plot.py at 2018-01-03 13:15:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.82 Mbit/s

95th percentile per-packet one-way delay: 202.379 ms

Loss rate: 40.69%

-- Flow 1:

Average throughput: 41.57 Mbit/s

95th percentile per-packet one-way delay: 92.599 ms

Loss rate: 21.62%

-- Flow 2:

Average throughput: 61.24 Mbit/s

95th percentile per-packet one-way delay: 223.873 ms

Loss rate: 54.06%

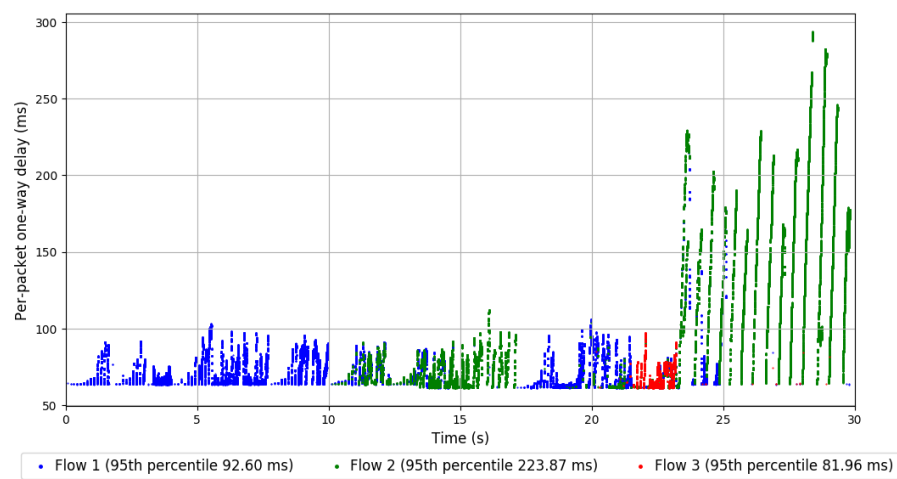
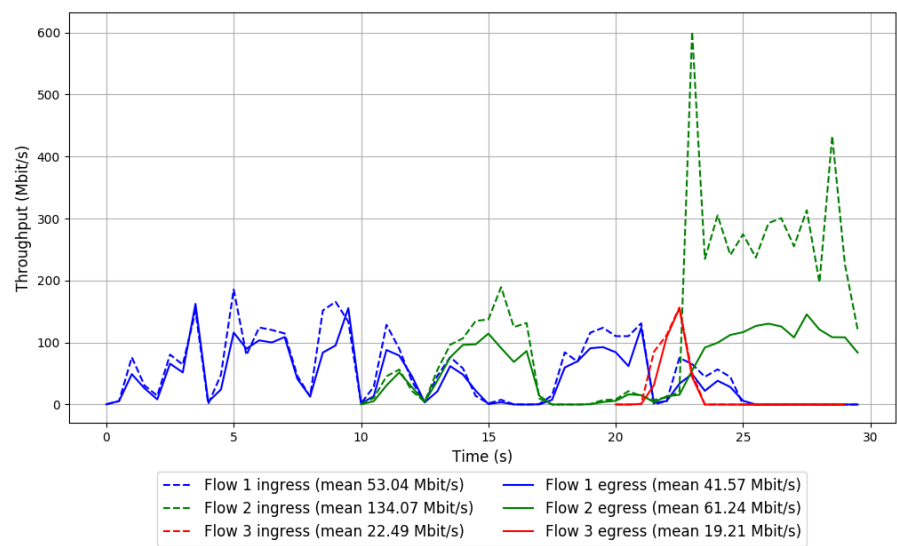
-- Flow 3:

Average throughput: 19.21 Mbit/s

95th percentile per-packet one-way delay: 81.963 ms

Loss rate: 15.97%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-01-03 09:16:54

End at: 2018-01-03 09:17:24

Below is generated by plot.py at 2018-01-03 13:15:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 153.04 Mbit/s

95th percentile per-packet one-way delay: 218.816 ms

Loss rate: 36.34%

-- Flow 1:

Average throughput: 147.23 Mbit/s

95th percentile per-packet one-way delay: 220.016 ms

Loss rate: 36.74%

-- Flow 2:

Average throughput: 8.84 Mbit/s

95th percentile per-packet one-way delay: 161.653 ms

Loss rate: 24.04%

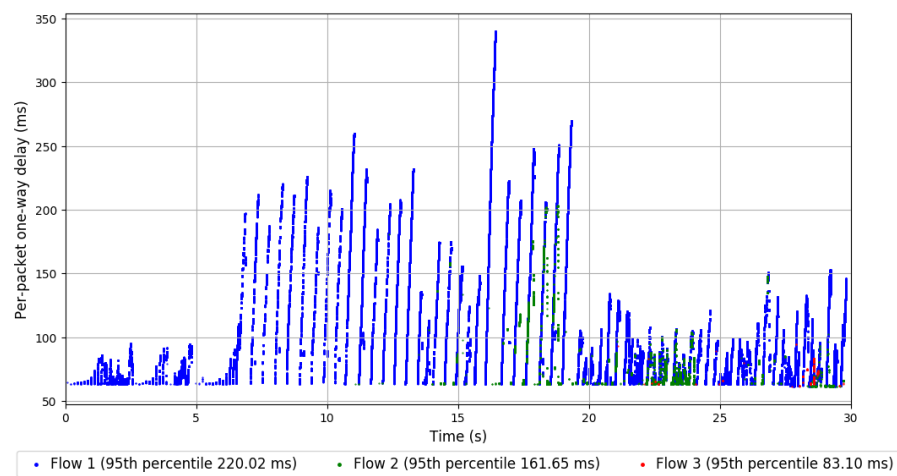
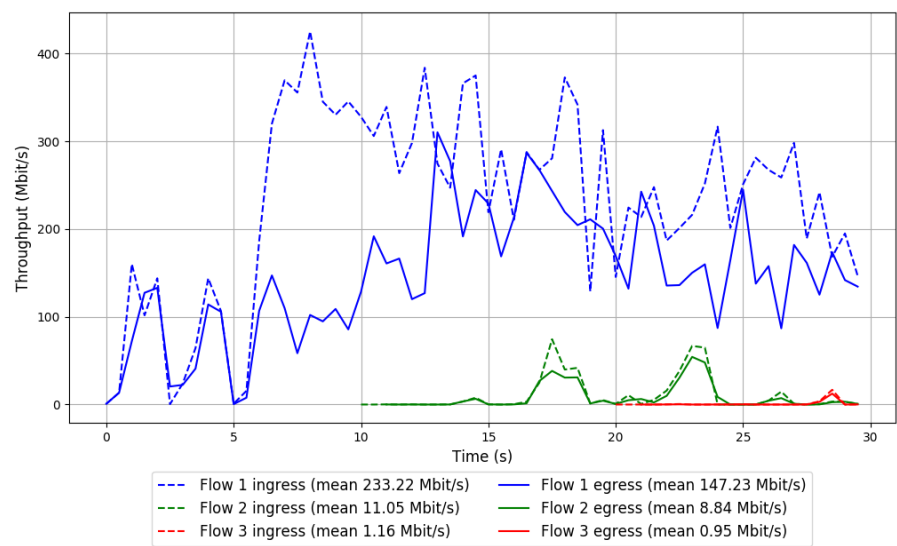
-- Flow 3:

Average throughput: 0.95 Mbit/s

95th percentile per-packet one-way delay: 83.102 ms

Loss rate: 26.85%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-01-03 09:29:51

End at: 2018-01-03 09:30:21

Below is generated by plot.py at 2018-01-03 13:17:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 342.61 Mbit/s

95th percentile per-packet one-way delay: 182.675 ms

Loss rate: 0.41%

-- Flow 1:

Average throughput: 236.17 Mbit/s

95th percentile per-packet one-way delay: 175.875 ms

Loss rate: 0.30%

-- Flow 2:

Average throughput: 148.70 Mbit/s

95th percentile per-packet one-way delay: 191.250 ms

Loss rate: 0.51%

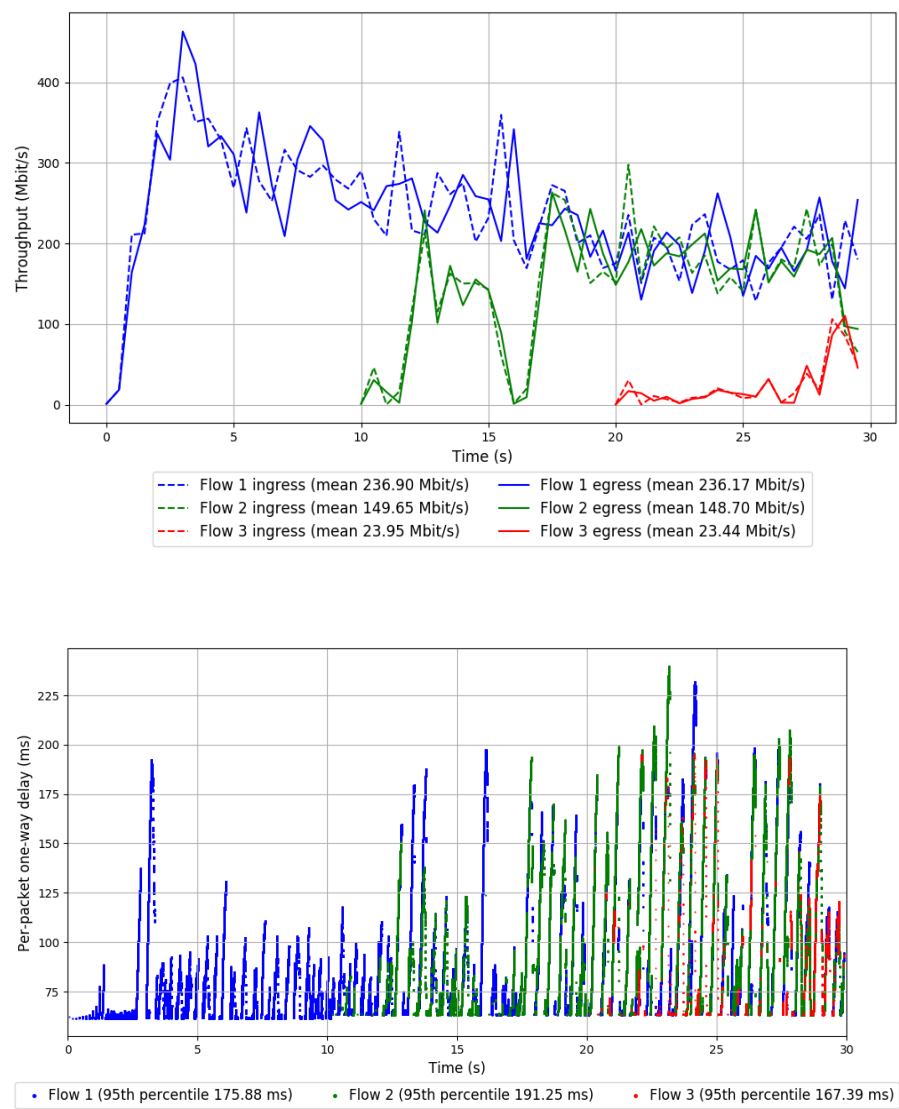
-- Flow 3:

Average throughput: 23.44 Mbit/s

95th percentile per-packet one-way delay: 167.388 ms

Loss rate: 2.11%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-01-03 09:43:19

End at: 2018-01-03 09:43:49

Below is generated by plot.py at 2018-01-03 13:17:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 328.28 Mbit/s

95th percentile per-packet one-way delay: 168.011 ms

Loss rate: 1.31%

-- Flow 1:

Average throughput: 192.03 Mbit/s

95th percentile per-packet one-way delay: 160.677 ms

Loss rate: 0.17%

-- Flow 2:

Average throughput: 164.82 Mbit/s

95th percentile per-packet one-way delay: 244.174 ms

Loss rate: 3.57%

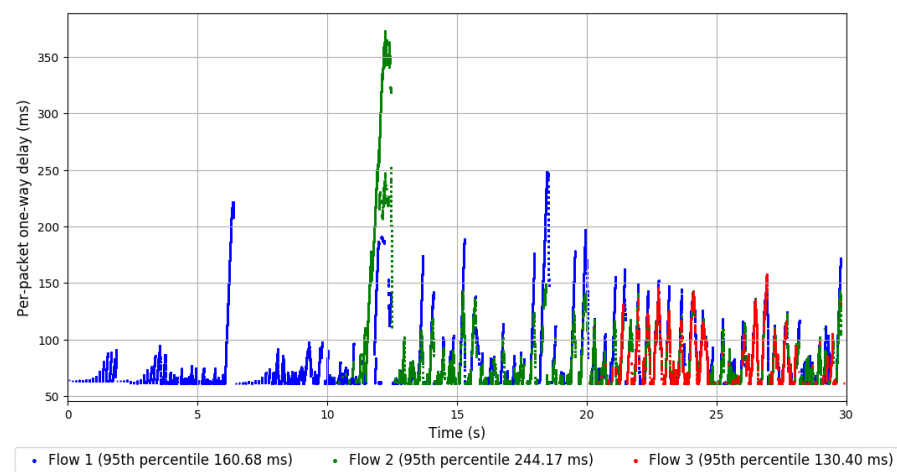
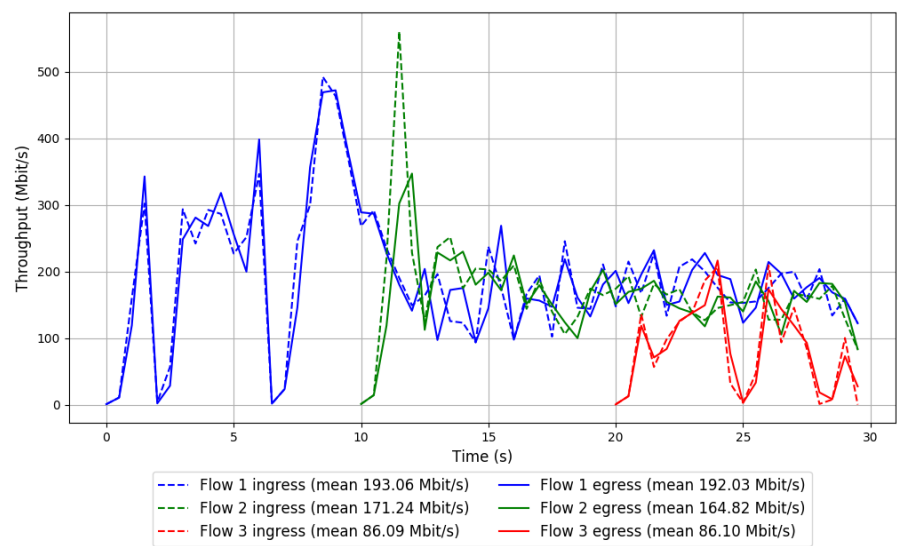
-- Flow 3:

Average throughput: 86.10 Mbit/s

95th percentile per-packet one-way delay: 130.404 ms

Loss rate: 0.00%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-01-03 09:57:22

End at: 2018-01-03 09:57:52

Below is generated by plot.py at 2018-01-03 13:18:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 329.91 Mbit/s

95th percentile per-packet one-way delay: 159.204 ms

Loss rate: 0.49%

-- Flow 1:

Average throughput: 235.07 Mbit/s

95th percentile per-packet one-way delay: 145.440 ms

Loss rate: 0.16%

-- Flow 2:

Average throughput: 109.51 Mbit/s

95th percentile per-packet one-way delay: 192.830 ms

Loss rate: 1.34%

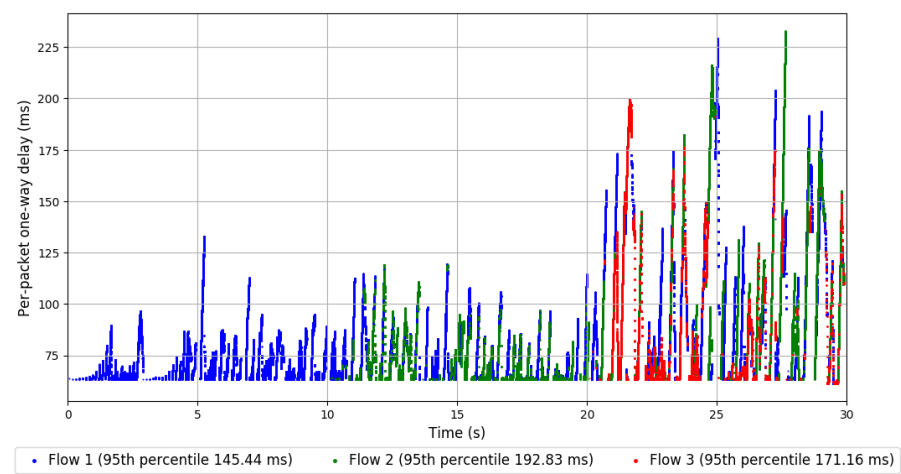
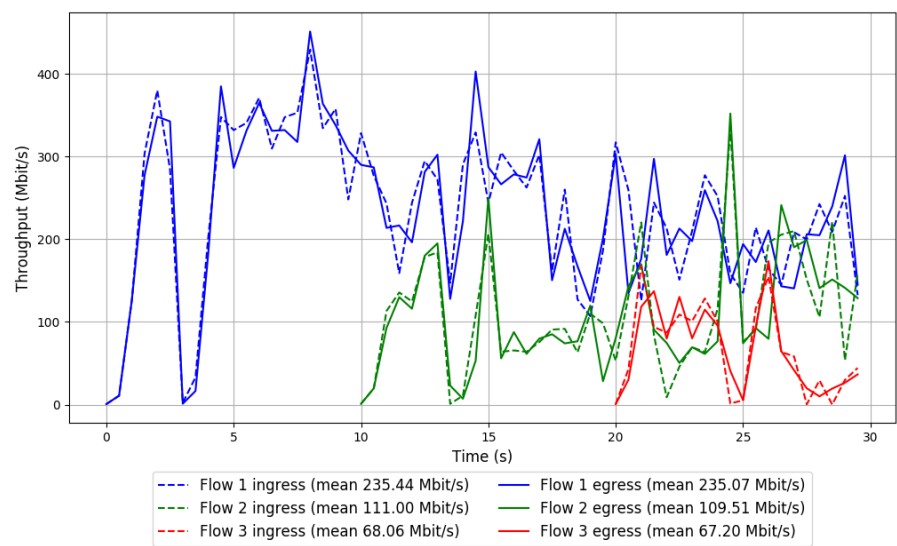
-- Flow 3:

Average throughput: 67.20 Mbit/s

95th percentile per-packet one-way delay: 171.162 ms

Loss rate: 1.19%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-01-03 10:10:55

End at: 2018-01-03 10:11:25

Below is generated by plot.py at 2018-01-03 13:18:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 348.86 Mbit/s

95th percentile per-packet one-way delay: 154.536 ms

Loss rate: 0.40%

-- Flow 1:

Average throughput: 249.58 Mbit/s

95th percentile per-packet one-way delay: 146.701 ms

Loss rate: 0.42%

-- Flow 2:

Average throughput: 79.01 Mbit/s

95th percentile per-packet one-way delay: 142.781 ms

Loss rate: 0.00%

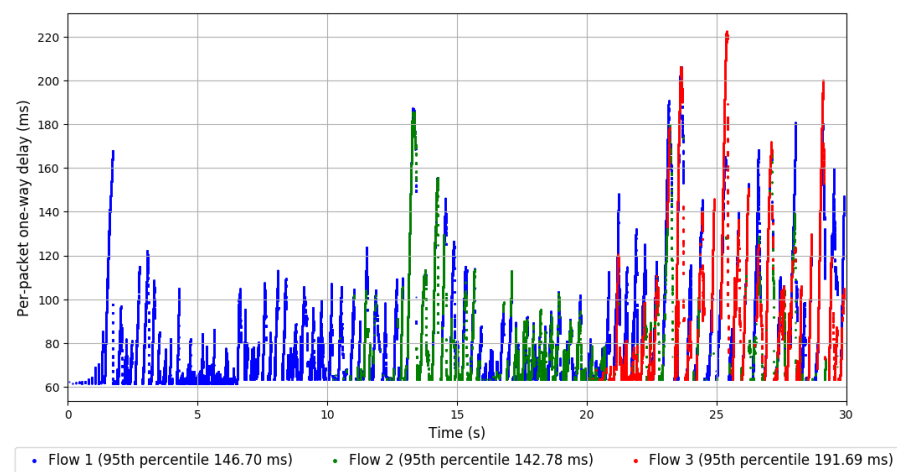
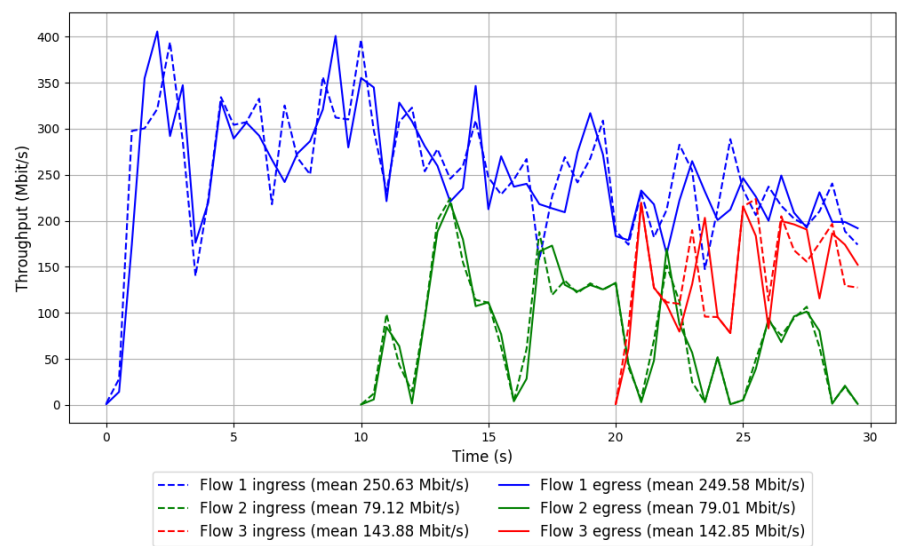
-- Flow 3:

Average throughput: 142.85 Mbit/s

95th percentile per-packet one-way delay: 191.688 ms

Loss rate: 0.75%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-01-03 10:25:18

End at: 2018-01-03 10:25:48

Below is generated by plot.py at 2018-01-03 13:18:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 290.91 Mbit/s

95th percentile per-packet one-way delay: 122.567 ms

Loss rate: 0.18%

-- Flow 1:

Average throughput: 196.18 Mbit/s

95th percentile per-packet one-way delay: 121.856 ms

Loss rate: 0.18%

-- Flow 2:

Average throughput: 95.34 Mbit/s

95th percentile per-packet one-way delay: 117.762 ms

Loss rate: 0.26%

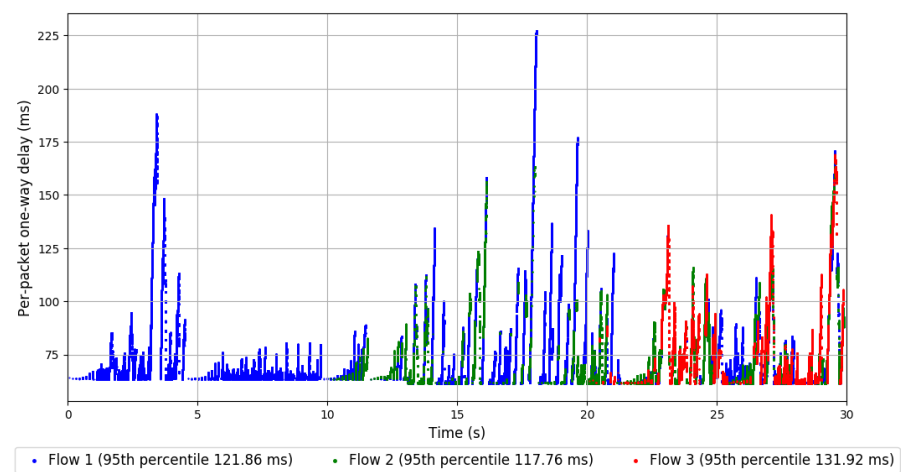
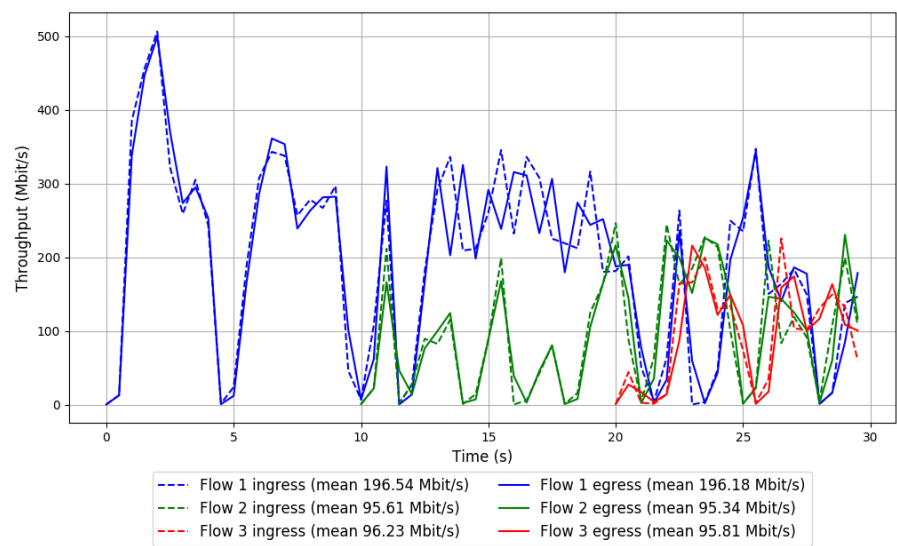
-- Flow 3:

Average throughput: 95.81 Mbit/s

95th percentile per-packet one-way delay: 131.922 ms

Loss rate: 0.00%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-01-03 10:39:31

End at: 2018-01-03 10:40:01

Below is generated by plot.py at 2018-01-03 13:20:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 331.26 Mbit/s

95th percentile per-packet one-way delay: 150.915 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 206.32 Mbit/s

95th percentile per-packet one-way delay: 154.161 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 148.90 Mbit/s

95th percentile per-packet one-way delay: 151.306 ms

Loss rate: 0.00%

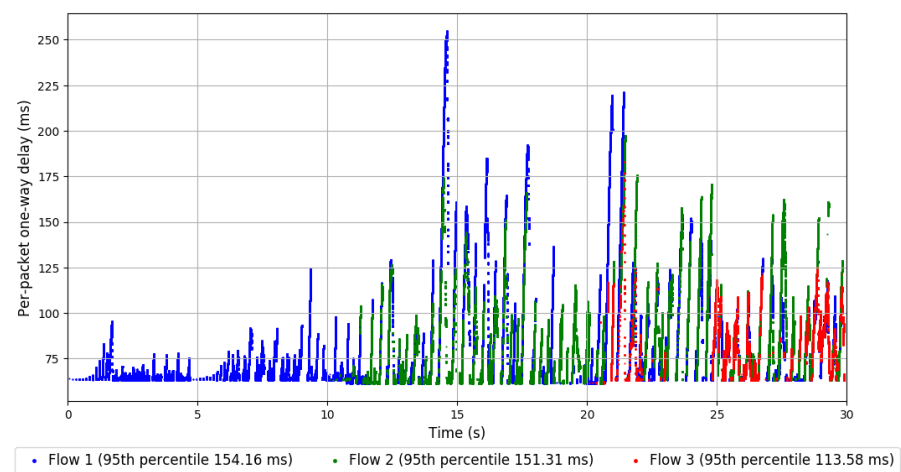
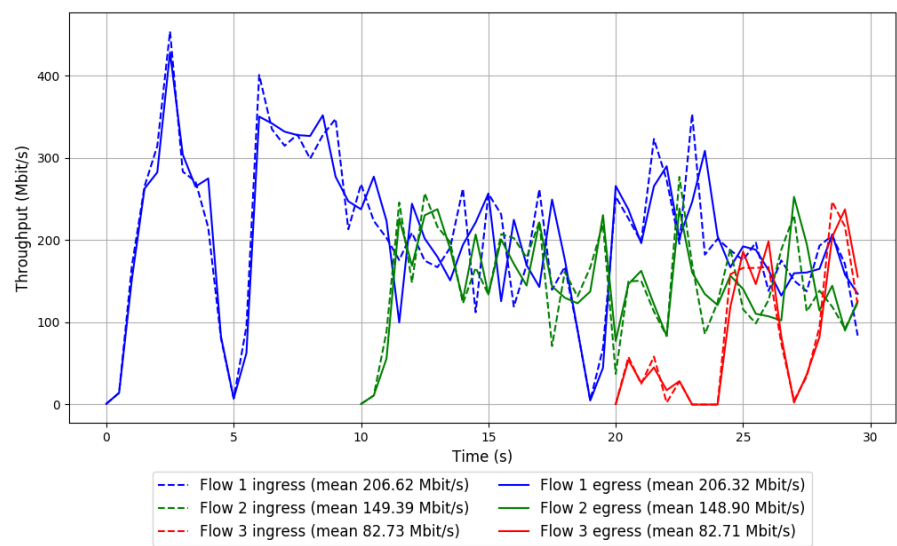
-- Flow 3:

Average throughput: 82.71 Mbit/s

95th percentile per-packet one-way delay: 113.578 ms

Loss rate: 0.02%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-01-03 10:53:31

End at: 2018-01-03 10:54:01

Below is generated by plot.py at 2018-01-03 13:20:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 318.42 Mbit/s

95th percentile per-packet one-way delay: 114.768 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 232.78 Mbit/s

95th percentile per-packet one-way delay: 118.005 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 100.19 Mbit/s

95th percentile per-packet one-way delay: 109.702 ms

Loss rate: 0.01%

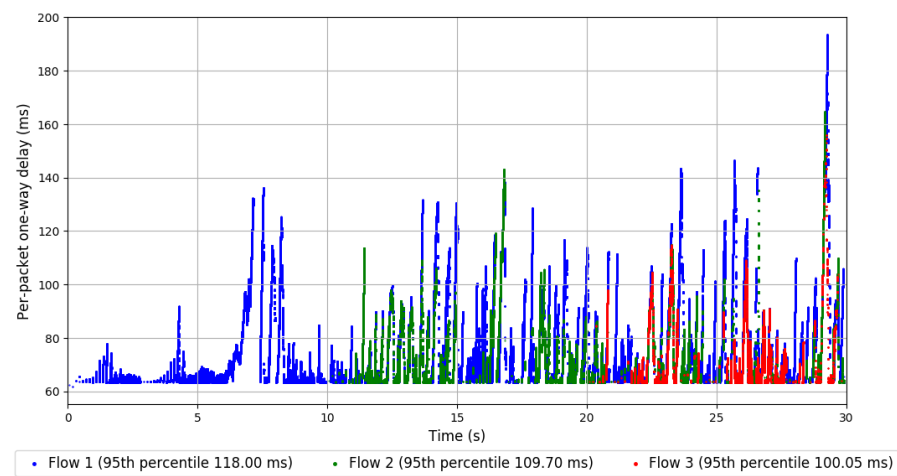
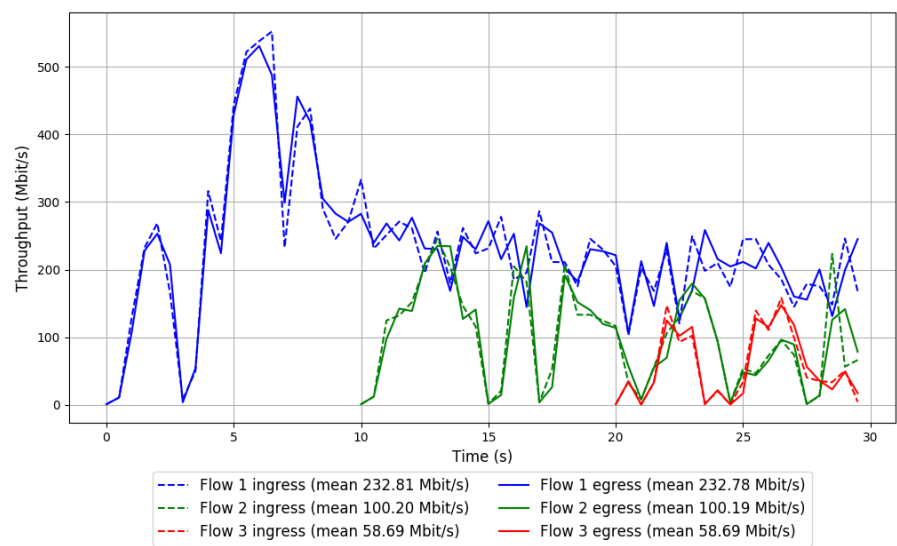
-- Flow 3:

Average throughput: 58.69 Mbit/s

95th percentile per-packet one-way delay: 100.051 ms

Loss rate: 0.00%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-01-03 11:07:32

End at: 2018-01-03 11:08:02

Below is generated by plot.py at 2018-01-03 13:21:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 320.51 Mbit/s

95th percentile per-packet one-way delay: 187.192 ms

Loss rate: 0.65%

-- Flow 1:

Average throughput: 250.93 Mbit/s

95th percentile per-packet one-way delay: 193.610 ms

Loss rate: 0.63%

-- Flow 2:

Average throughput: 84.56 Mbit/s

95th percentile per-packet one-way delay: 167.665 ms

Loss rate: 0.23%

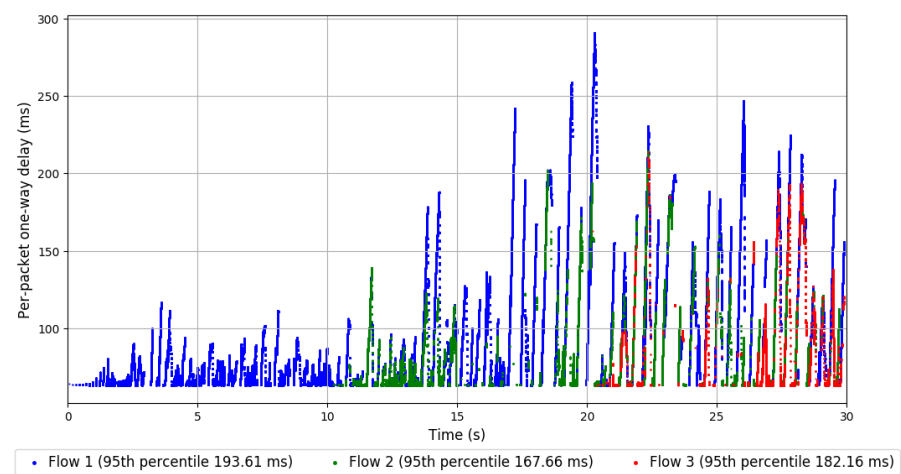
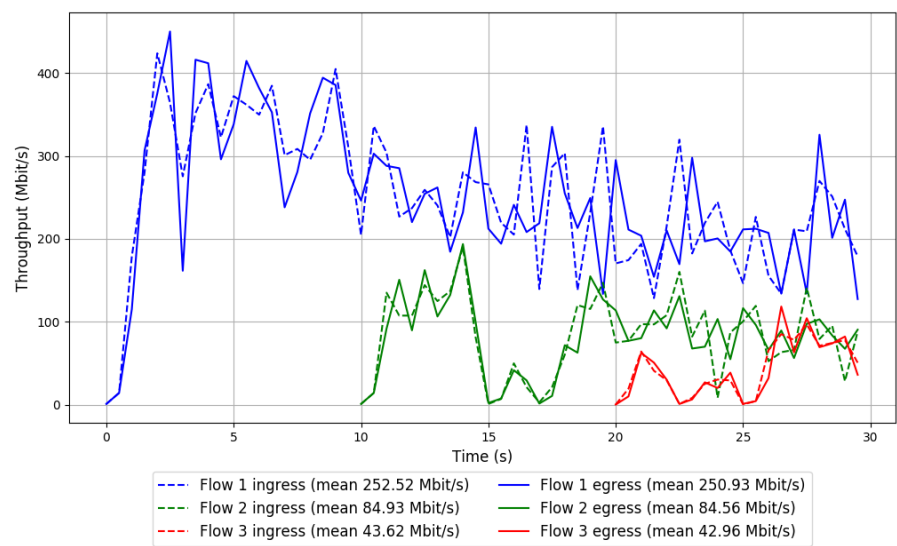
-- Flow 3:

Average throughput: 42.96 Mbit/s

95th percentile per-packet one-way delay: 182.157 ms

Loss rate: 2.47%

Run 10: Report of Verus — Data Link

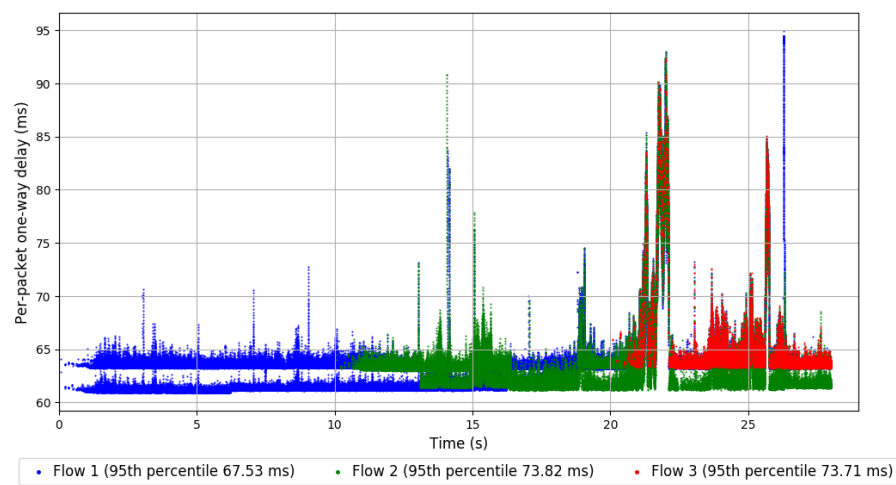
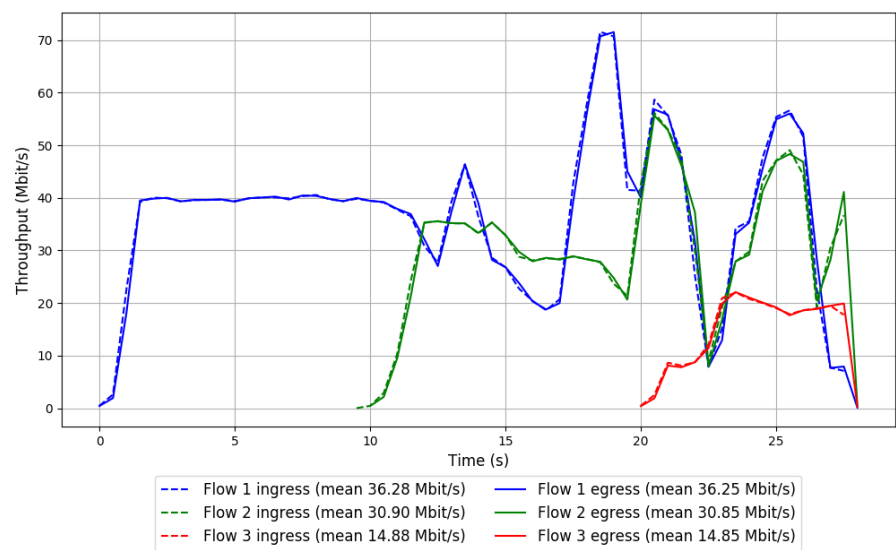


```
Run 1: Statistics of Copa

Start at: 2018-01-03 09:10:31
End at: 2018-01-03 09:11:01

# Below is generated by plot.py at 2018-01-03 13:21:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 60.27 Mbit/s
95th percentile per-packet one-way delay: 69.621 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 36.25 Mbit/s
95th percentile per-packet one-way delay: 67.535 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 30.85 Mbit/s
95th percentile per-packet one-way delay: 73.821 ms
Loss rate: 0.17%
-- Flow 3:
Average throughput: 14.85 Mbit/s
95th percentile per-packet one-way delay: 73.708 ms
Loss rate: 0.24%
```

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-01-03 09:23:00

End at: 2018-01-03 09:23:30

Below is generated by plot.py at 2018-01-03 13:21:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 100.44 Mbit/s

95th percentile per-packet one-way delay: 63.567 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 55.39 Mbit/s

95th percentile per-packet one-way delay: 63.547 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 50.60 Mbit/s

95th percentile per-packet one-way delay: 63.586 ms

Loss rate: 0.01%

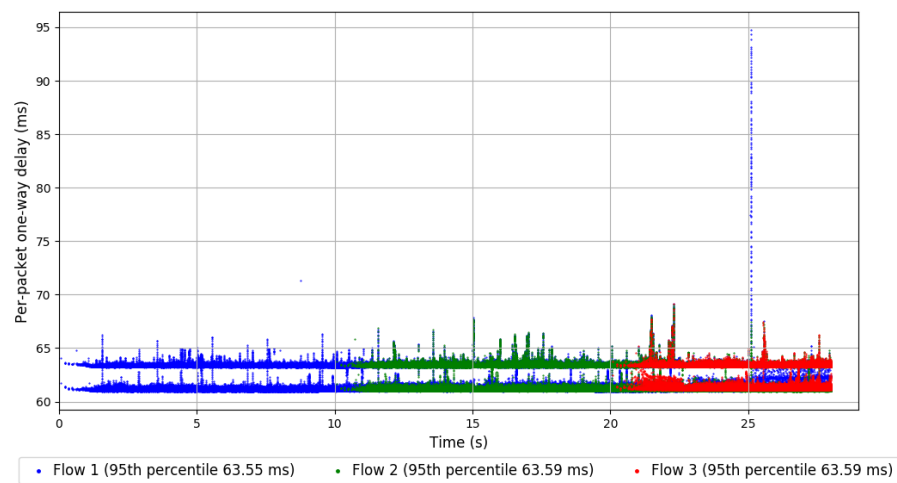
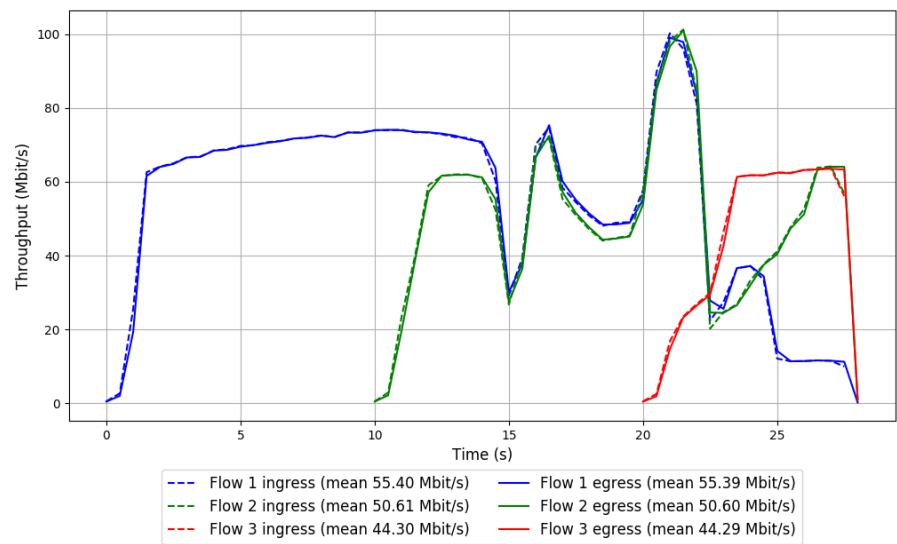
-- Flow 3:

Average throughput: 44.29 Mbit/s

95th percentile per-packet one-way delay: 63.593 ms

Loss rate: 0.00%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-01-03 09:36:16

End at: 2018-01-03 09:36:46

Below is generated by plot.py at 2018-01-03 13:21:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 138.46 Mbit/s

95th percentile per-packet one-way delay: 63.592 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 73.03 Mbit/s

95th percentile per-packet one-way delay: 63.336 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 75.24 Mbit/s

95th percentile per-packet one-way delay: 63.650 ms

Loss rate: 0.00%

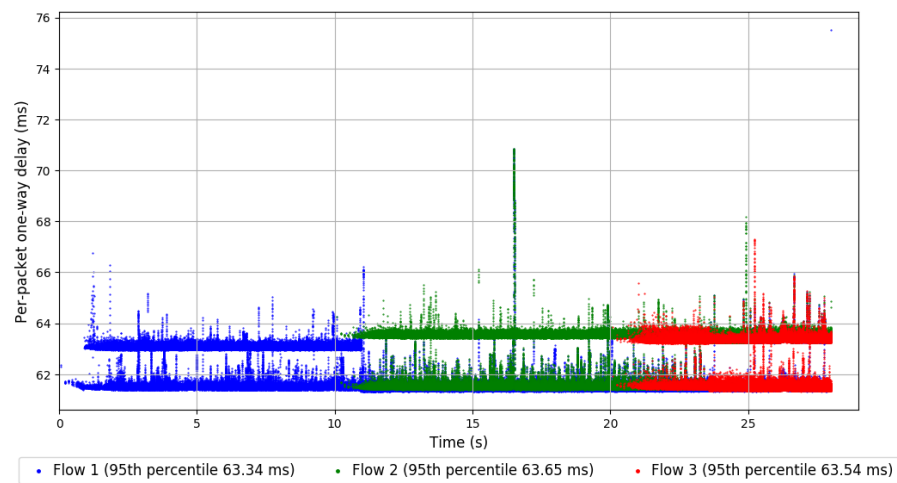
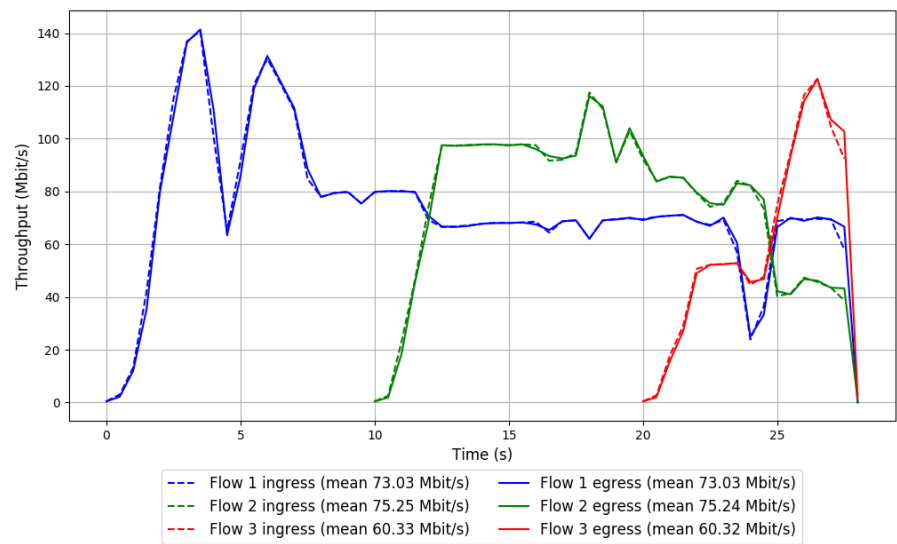
-- Flow 3:

Average throughput: 60.32 Mbit/s

95th percentile per-packet one-way delay: 63.543 ms

Loss rate: 0.00%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-01-03 09:50:25

End at: 2018-01-03 09:50:55

Below is generated by plot.py at 2018-01-03 13:21:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 124.82 Mbit/s

95th percentile per-packet one-way delay: 63.833 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 74.83 Mbit/s

95th percentile per-packet one-way delay: 64.051 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 56.59 Mbit/s

95th percentile per-packet one-way delay: 63.828 ms

Loss rate: 0.00%

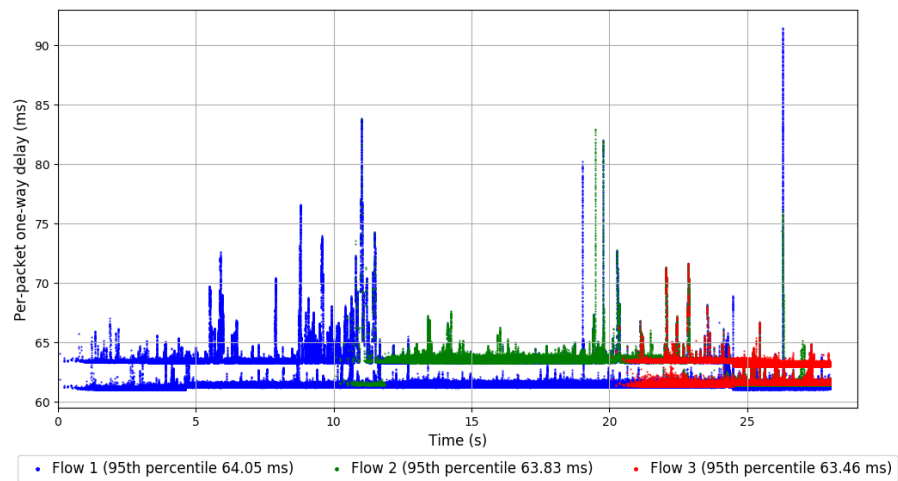
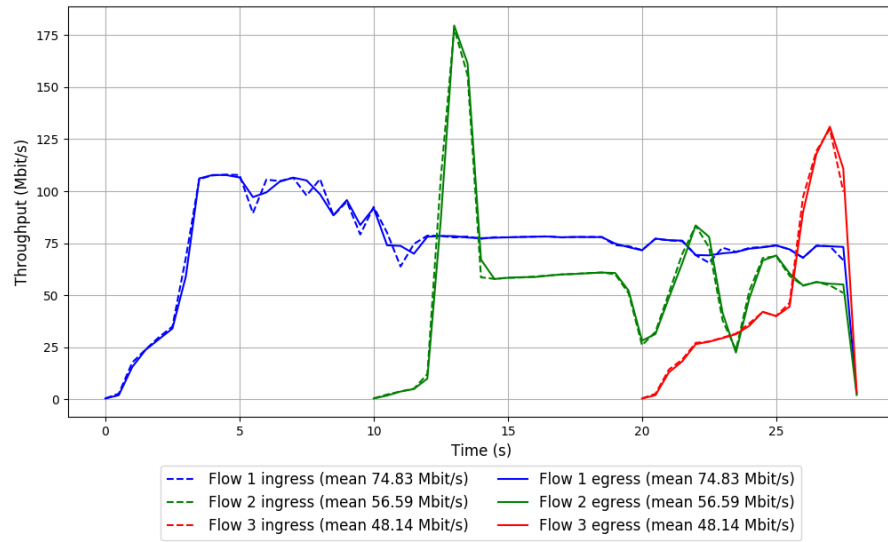
-- Flow 3:

Average throughput: 48.14 Mbit/s

95th percentile per-packet one-way delay: 63.458 ms

Loss rate: 0.00%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-01-03 10:04:04

End at: 2018-01-03 10:04:34

Below is generated by plot.py at 2018-01-03 13:22:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 138.38 Mbit/s

95th percentile per-packet one-way delay: 63.587 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 71.26 Mbit/s

95th percentile per-packet one-way delay: 63.548 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 73.46 Mbit/s

95th percentile per-packet one-way delay: 63.706 ms

Loss rate: 0.00%

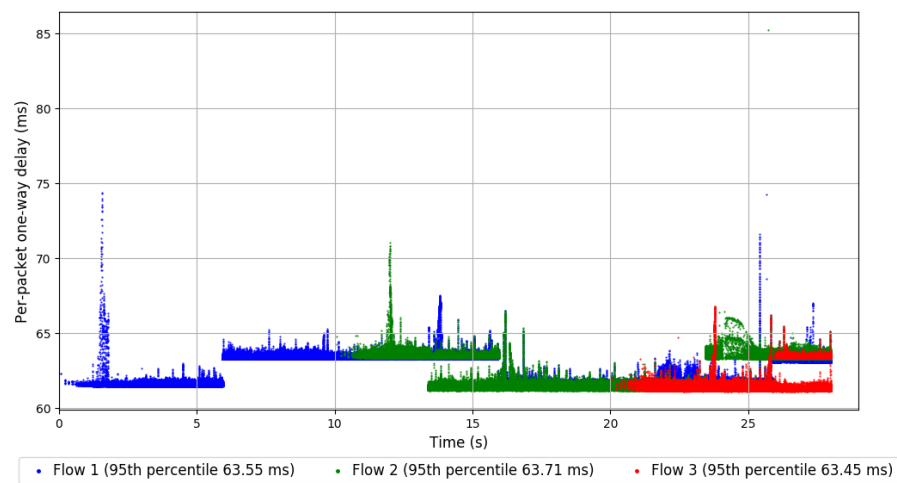
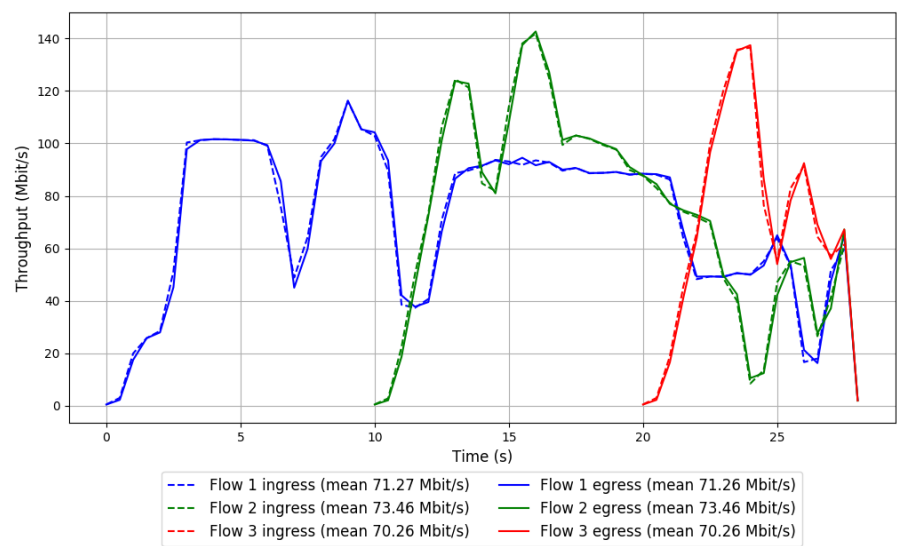
-- Flow 3:

Average throughput: 70.26 Mbit/s

95th percentile per-packet one-way delay: 63.447 ms

Loss rate: 0.00%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-01-03 10:18:08

End at: 2018-01-03 10:18:38

Below is generated by plot.py at 2018-01-03 13:23:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 132.94 Mbit/s

95th percentile per-packet one-way delay: 63.571 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 65.08 Mbit/s

95th percentile per-packet one-way delay: 63.551 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 81.22 Mbit/s

95th percentile per-packet one-way delay: 63.587 ms

Loss rate: 0.00%

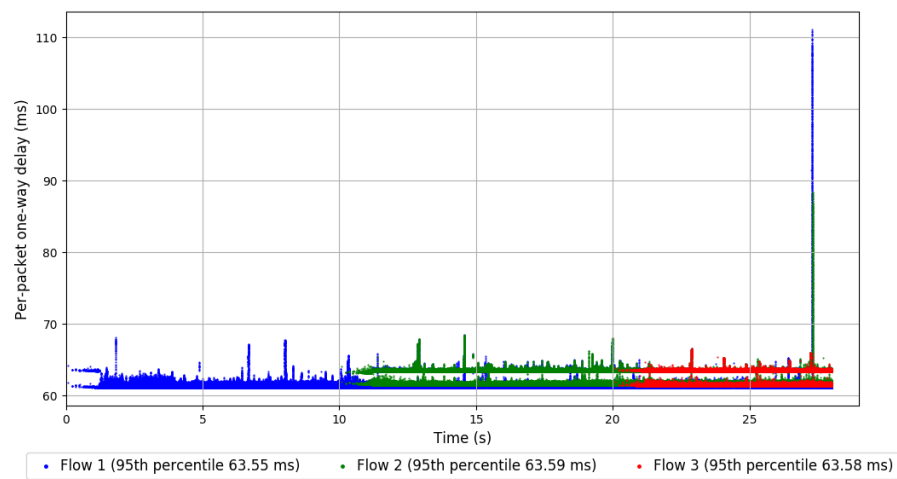
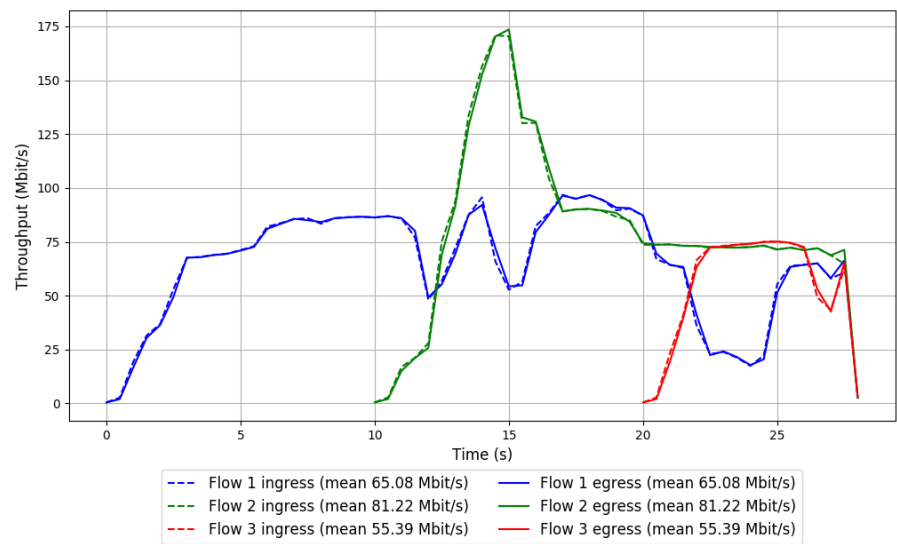
-- Flow 3:

Average throughput: 55.39 Mbit/s

95th percentile per-packet one-way delay: 63.584 ms

Loss rate: 0.00%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-01-03 10:32:26

End at: 2018-01-03 10:32:56

Below is generated by plot.py at 2018-01-03 13:23:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 128.76 Mbit/s

95th percentile per-packet one-way delay: 63.790 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 75.75 Mbit/s

95th percentile per-packet one-way delay: 63.551 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 59.02 Mbit/s

95th percentile per-packet one-way delay: 63.957 ms

Loss rate: 0.00%

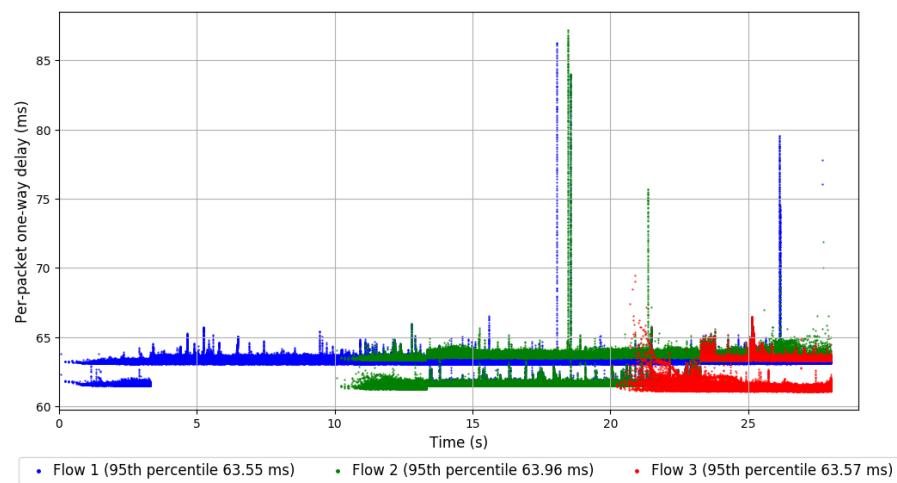
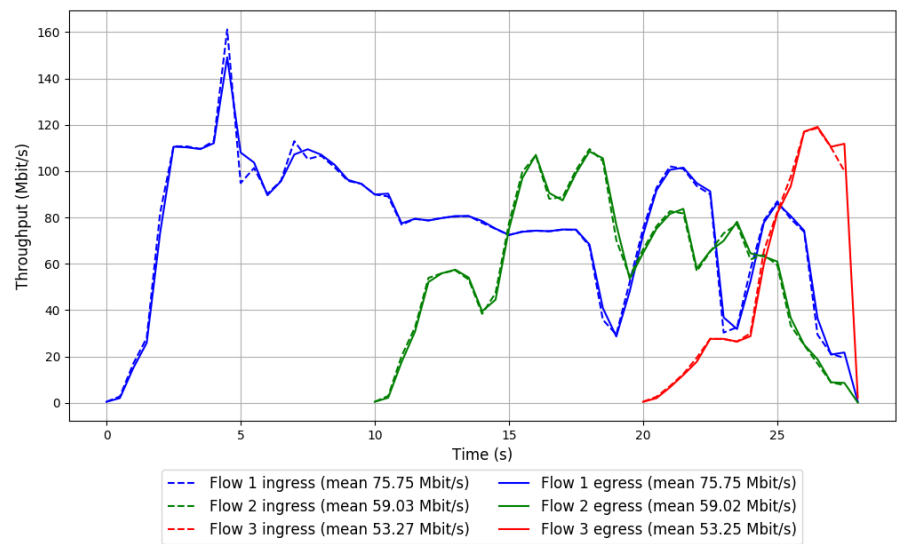
-- Flow 3:

Average throughput: 53.25 Mbit/s

95th percentile per-packet one-way delay: 63.574 ms

Loss rate: 0.04%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-01-03 10:46:31

End at: 2018-01-03 10:47:01

Below is generated by plot.py at 2018-01-03 13:24:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 134.97 Mbit/s

95th percentile per-packet one-way delay: 63.679 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 73.02 Mbit/s

95th percentile per-packet one-way delay: 63.559 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 63.52 Mbit/s

95th percentile per-packet one-way delay: 63.788 ms

Loss rate: 0.01%

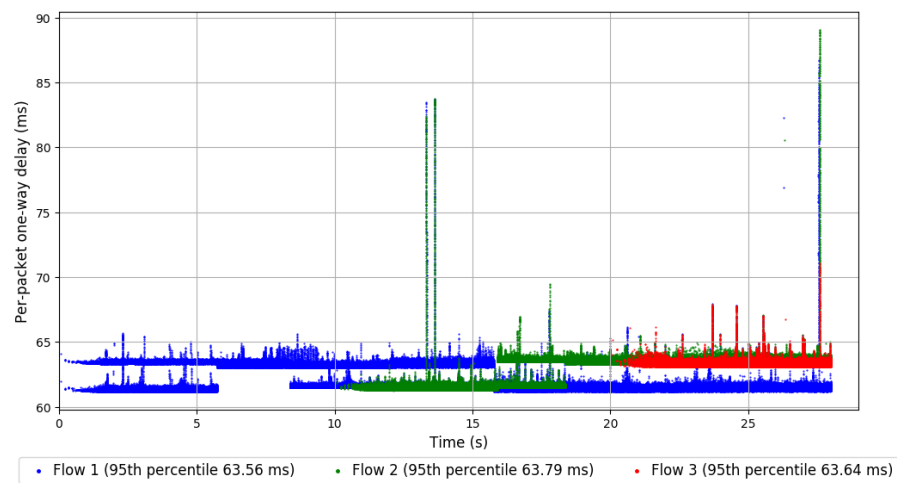
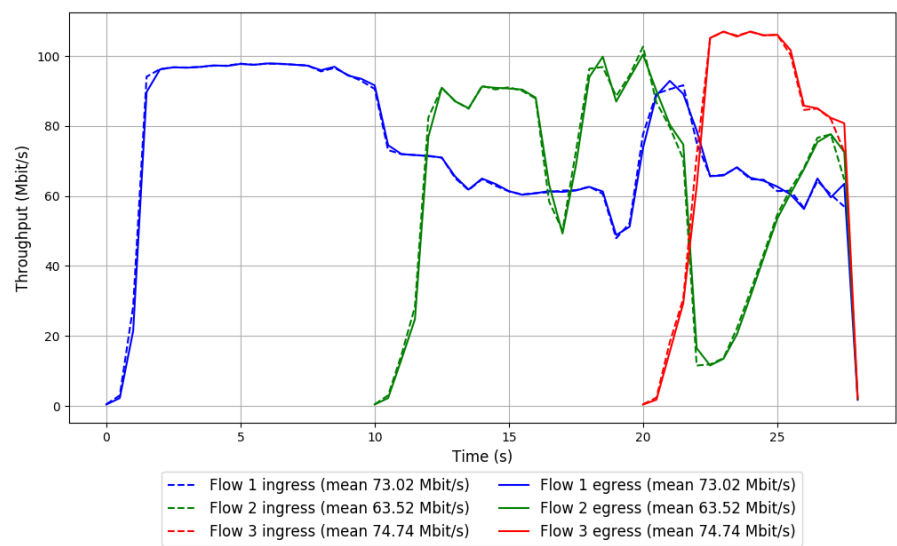
-- Flow 3:

Average throughput: 74.74 Mbit/s

95th percentile per-packet one-way delay: 63.637 ms

Loss rate: 0.01%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-01-03 11:00:32

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

Below is generated by plot.py at 2018-01-03 13:24:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 121.46 Mbit/s

95th percentile per-packet one-way delay: 63.592 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 60.65 Mbit/s

95th percentile per-packet one-way delay: 63.532 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 71.41 Mbit/s

95th percentile per-packet one-way delay: 63.626 ms

Loss rate: 0.00%

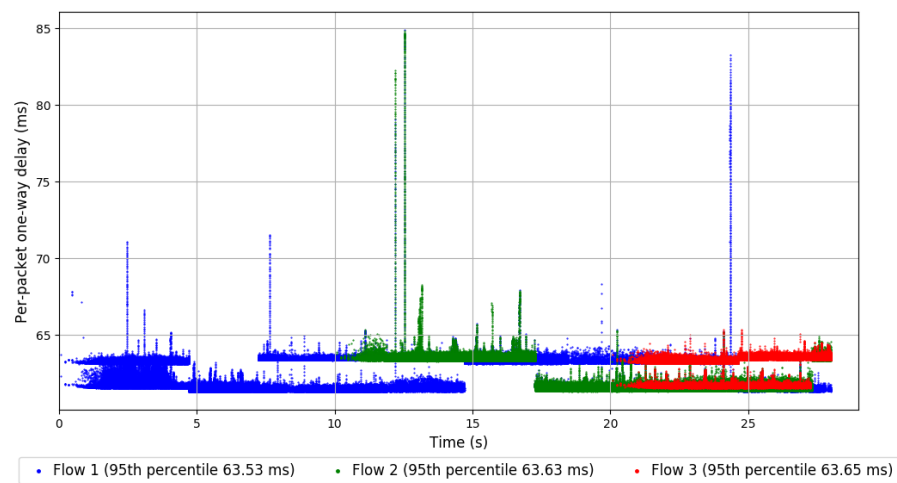
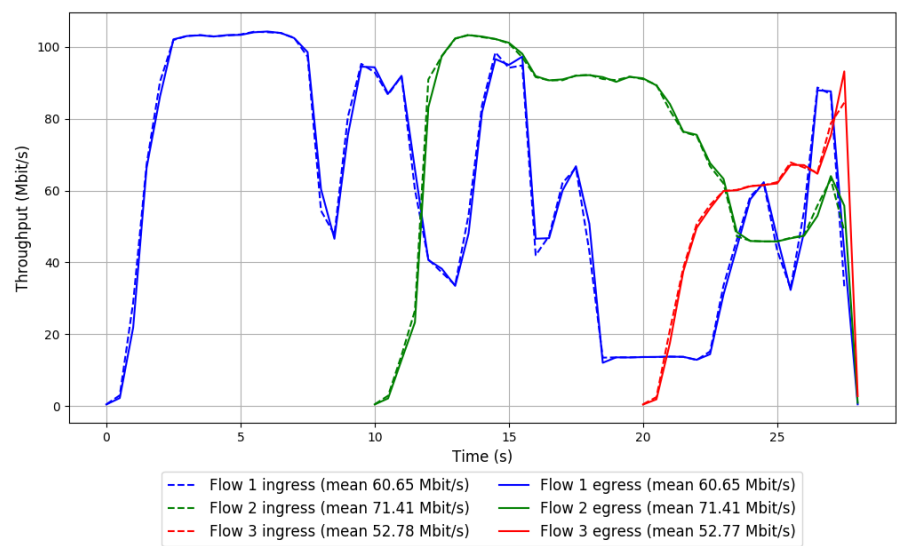
-- Flow 3:

Average throughput: 52.77 Mbit/s

95th percentile per-packet one-way delay: 63.654 ms

Loss rate: 0.02%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-01-03 11:14:26

End at: 2018-01-03 11:14:56

Below is generated by plot.py at 2018-01-03 13:25:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 126.09 Mbit/s

95th percentile per-packet one-way delay: 63.723 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 69.60 Mbit/s

95th percentile per-packet one-way delay: 63.750 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 64.75 Mbit/s

95th percentile per-packet one-way delay: 63.677 ms

Loss rate: 0.00%

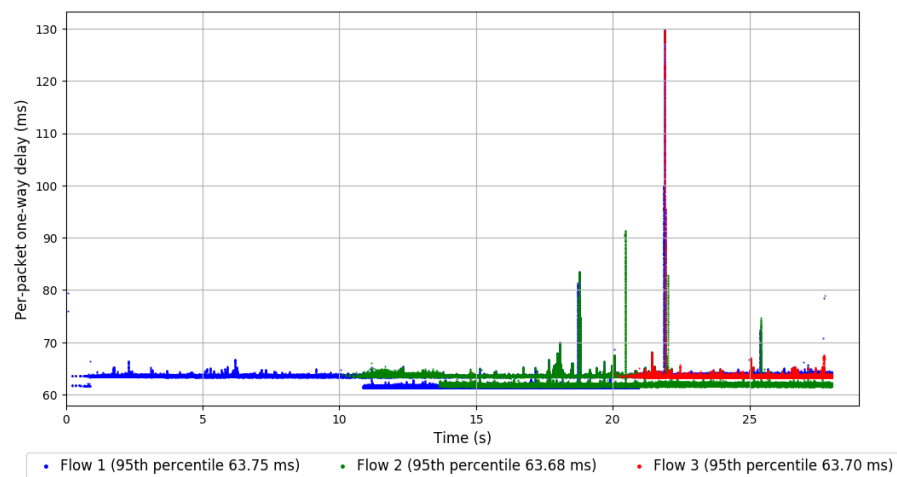
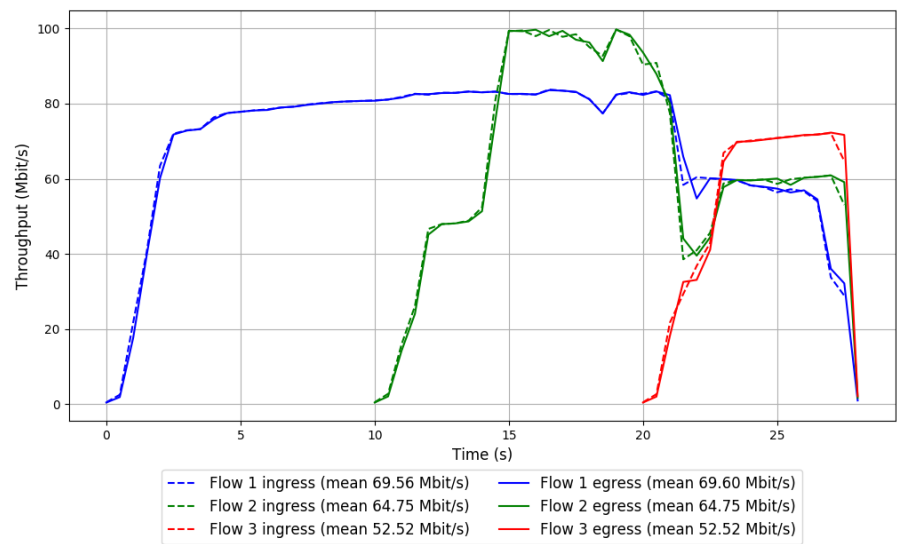
-- Flow 3:

Average throughput: 52.52 Mbit/s

95th percentile per-packet one-way delay: 63.695 ms

Loss rate: 0.00%

Run 10: Report of Copa — Data Link

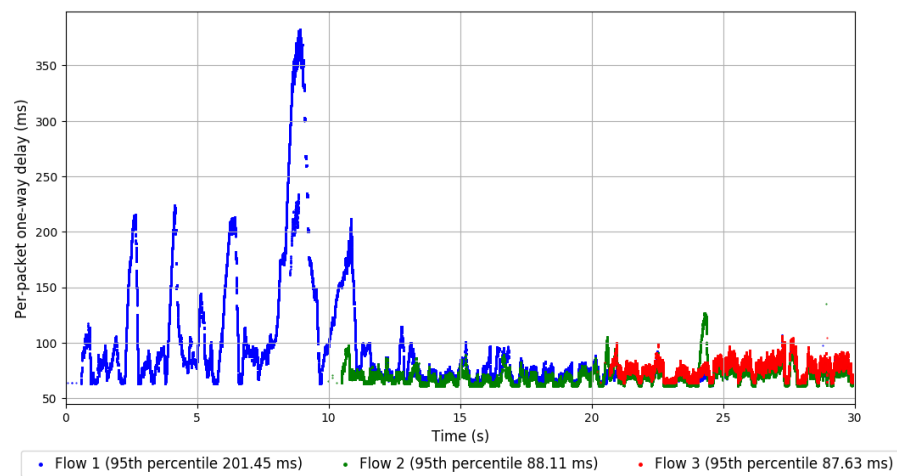
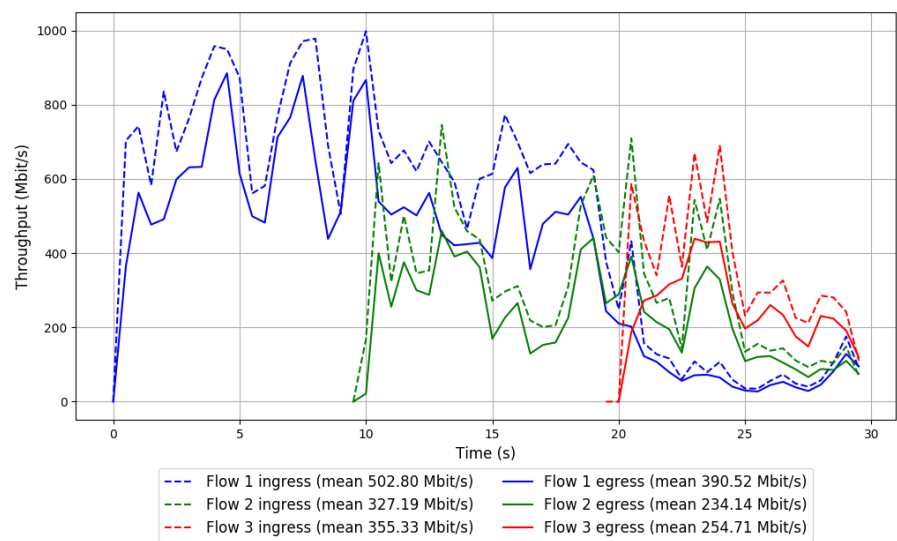


```
Run 1: Statistics of FillP

Start at: 2018-01-03 09:06:58
End at: 2018-01-03 09:07:28

# Below is generated by plot.py at 2018-01-03 13:33:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 629.74 Mbit/s
95th percentile per-packet one-way delay: 175.453 ms
Loss rate: 24.93%
-- Flow 1:
Average throughput: 390.52 Mbit/s
95th percentile per-packet one-way delay: 201.448 ms
Loss rate: 22.33%
-- Flow 2:
Average throughput: 234.14 Mbit/s
95th percentile per-packet one-way delay: 88.107 ms
Loss rate: 28.45%
-- Flow 3:
Average throughput: 254.71 Mbit/s
95th percentile per-packet one-way delay: 87.633 ms
Loss rate: 29.47%
```


Run 1: Report of FillP — Data Link

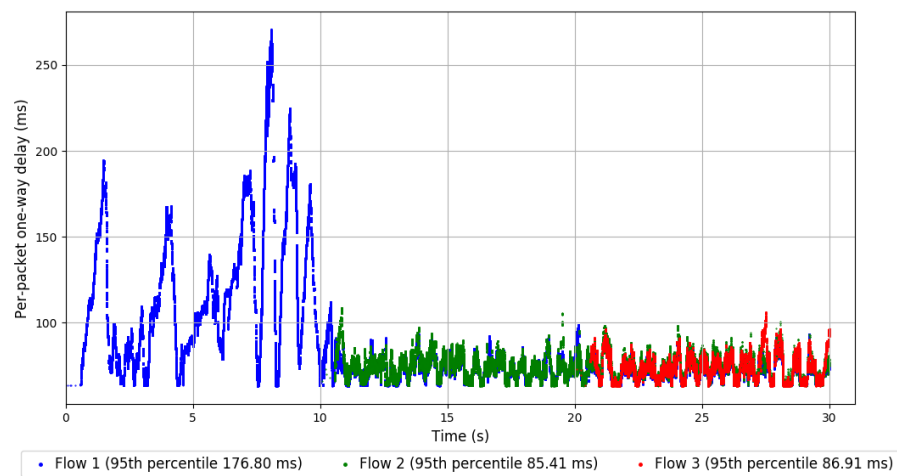
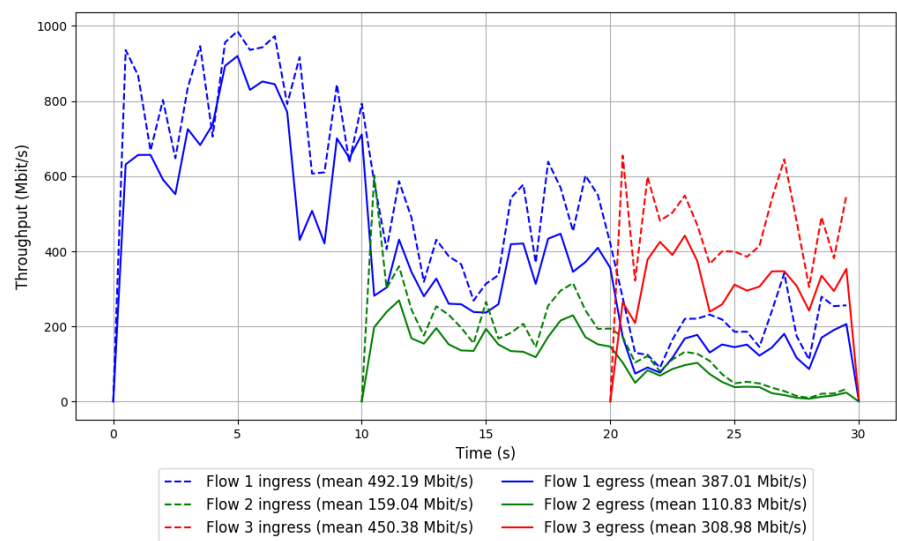


```
Run 2: Statistics of FillP

Start at: 2018-01-03 09:19:27
End at: 2018-01-03 09:19:57

# Below is generated by plot.py at 2018-01-03 13:33:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 563.10 Mbit/s
95th percentile per-packet one-way delay: 164.848 ms
Loss rate: 24.61%
-- Flow 1:
Average throughput: 387.01 Mbit/s
95th percentile per-packet one-way delay: 176.803 ms
Loss rate: 21.34%
-- Flow 2:
Average throughput: 110.83 Mbit/s
95th percentile per-packet one-way delay: 85.412 ms
Loss rate: 30.29%
-- Flow 3:
Average throughput: 308.98 Mbit/s
95th percentile per-packet one-way delay: 86.912 ms
Loss rate: 31.38%
```

Run 2: Report of FillP — Data Link

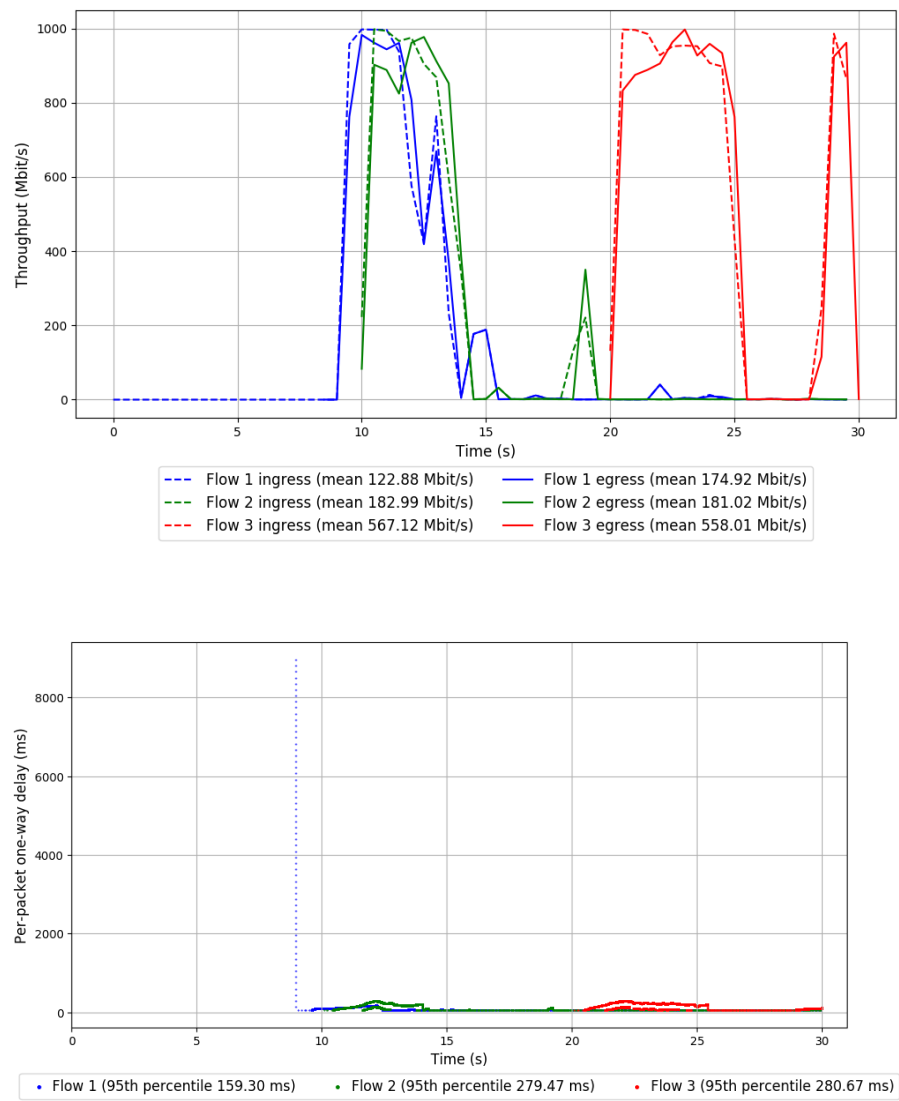


Run 3: Statistics of FillP

Start at: 2018-01-03 09:32:45

End at: 2018-01-03 09:33:15

Run 3: Report of FillP — Data Link

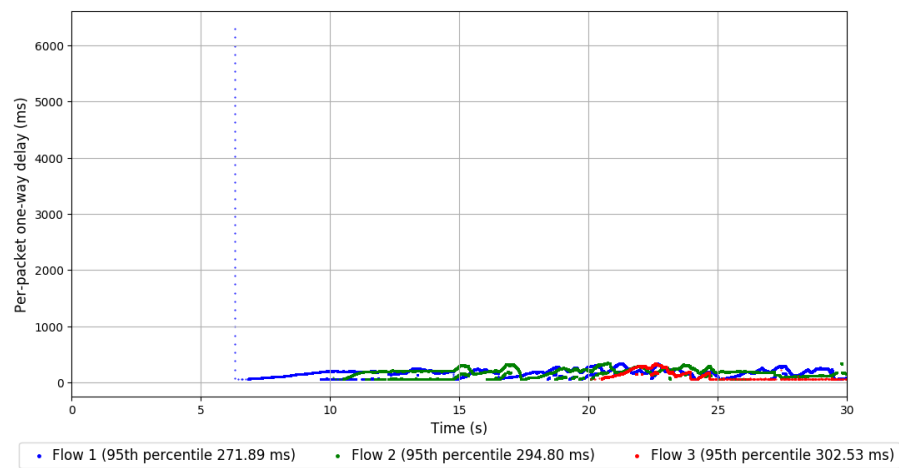
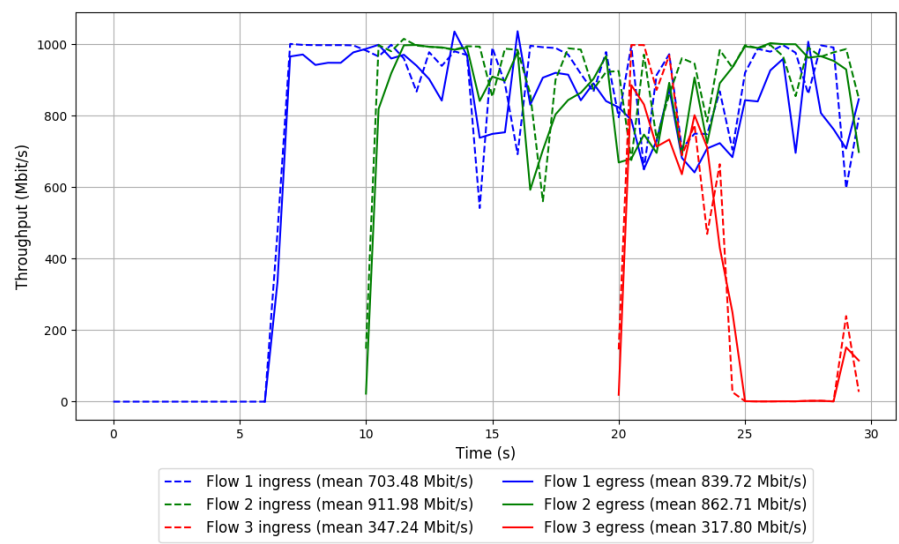


Run 4: Statistics of FillP

Start at: 2018-01-03 09:46:13

End at: 2018-01-03 09:46:43

Run 4: Report of FillP — Data Link

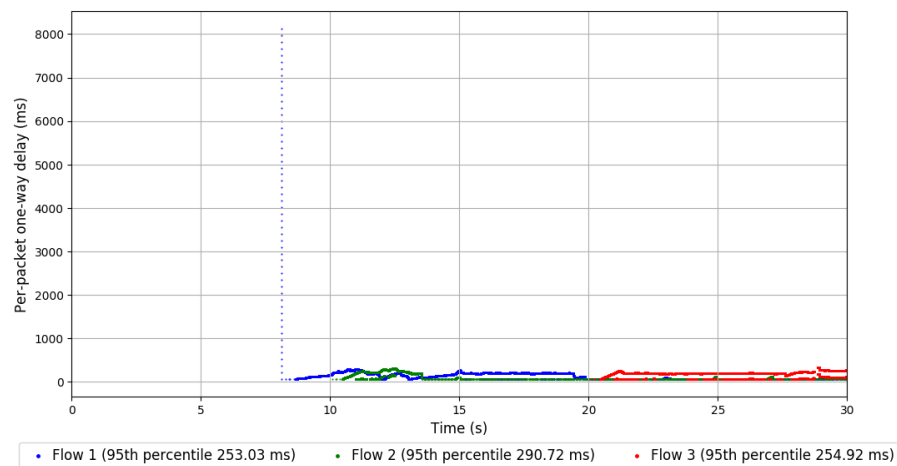
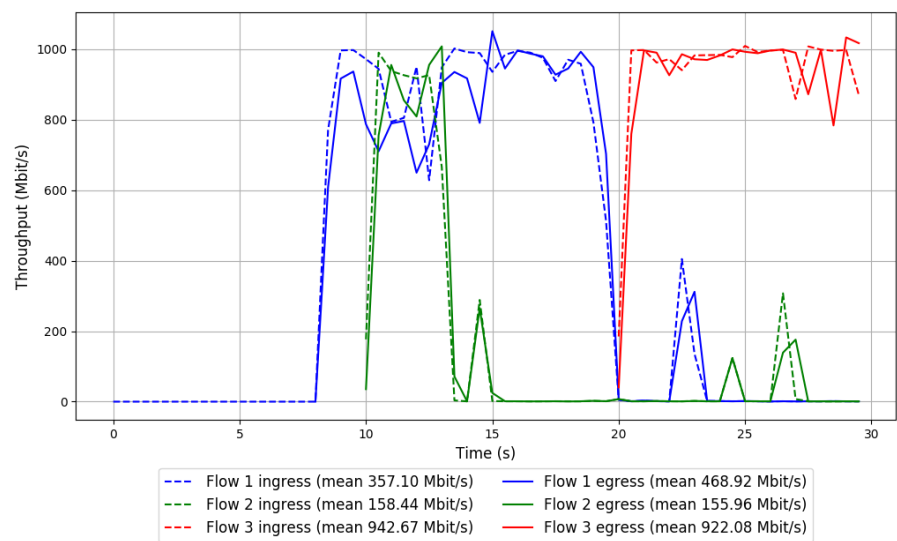


Run 5: Statistics of FillP

Start at: 2018-01-03 10:00:17

End at: 2018-01-03 10:00:47

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-01-03 10:13:50

End at: 2018-01-03 10:14:20

Below is generated by plot.py at 2018-01-03 13:54:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 1608.38 Mbit/s

95th percentile per-packet one-way delay: 227.246 ms

Loss rate: 6.04%

-- Flow 1:

Average throughput: 818.59 Mbit/s

95th percentile per-packet one-way delay: 214.820 ms

Loss rate: 5.08%

-- Flow 2:

Average throughput: 833.21 Mbit/s

95th percentile per-packet one-way delay: 242.514 ms

Loss rate: 4.39%

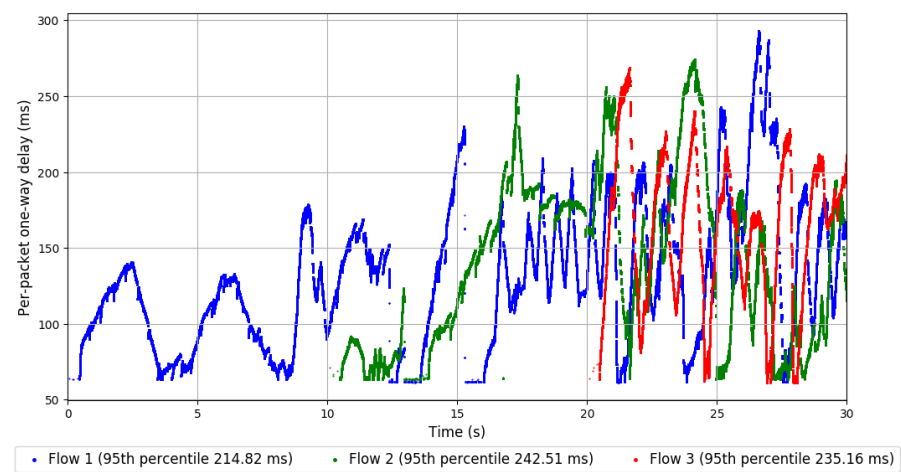
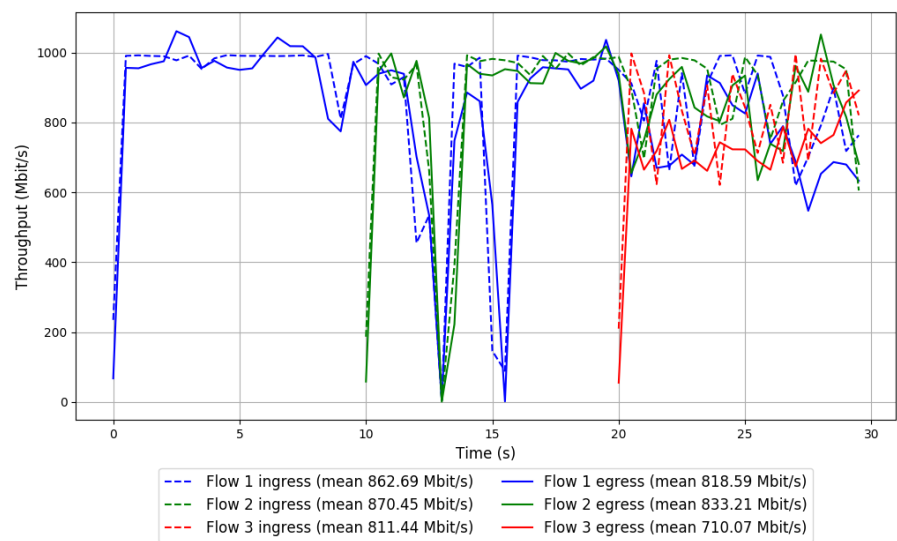
-- Flow 3:

Average throughput: 710.07 Mbit/s

95th percentile per-packet one-way delay: 235.159 ms

Loss rate: 12.63%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-01-03 10:28:10

End at: 2018-01-03 10:28:40

Below is generated by plot.py at 2018-01-03 13:54:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 1717.72 Mbit/s

95th percentile per-packet one-way delay: 279.580 ms

Loss rate: 9.61%

-- Flow 1:

Average throughput: 819.30 Mbit/s

95th percentile per-packet one-way delay: 288.795 ms

Loss rate: 8.46%

-- Flow 2:

Average throughput: 748.24 Mbit/s

95th percentile per-packet one-way delay: 242.158 ms

Loss rate: 11.70%

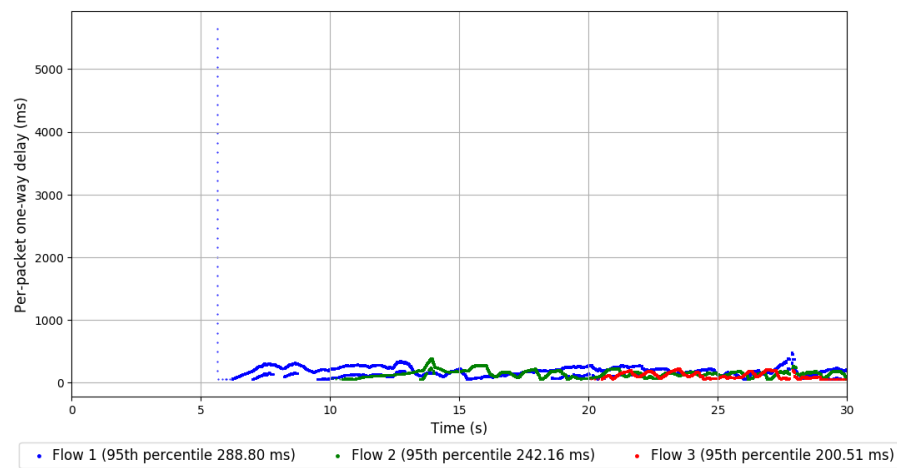
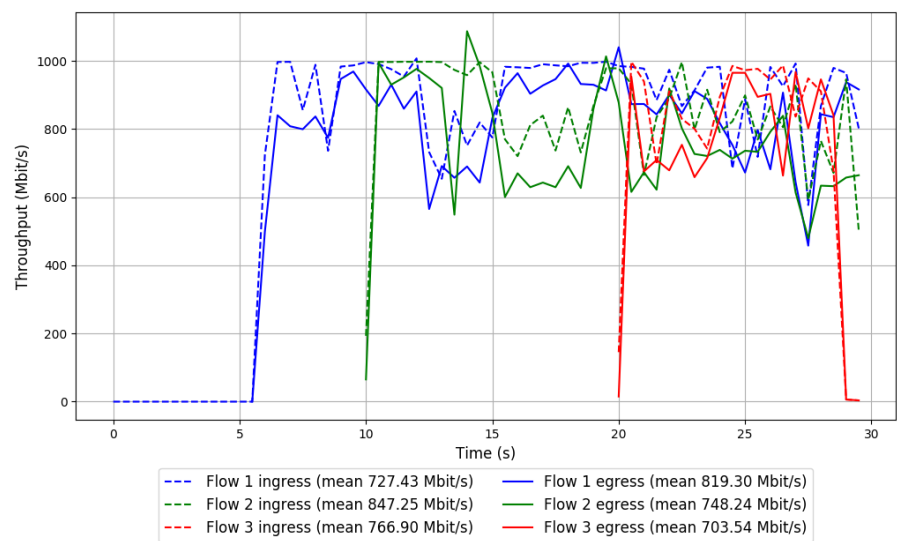
-- Flow 3:

Average throughput: 703.54 Mbit/s

95th percentile per-packet one-way delay: 200.515 ms

Loss rate: 8.27%

Run 7: Report of FillP — Data Link

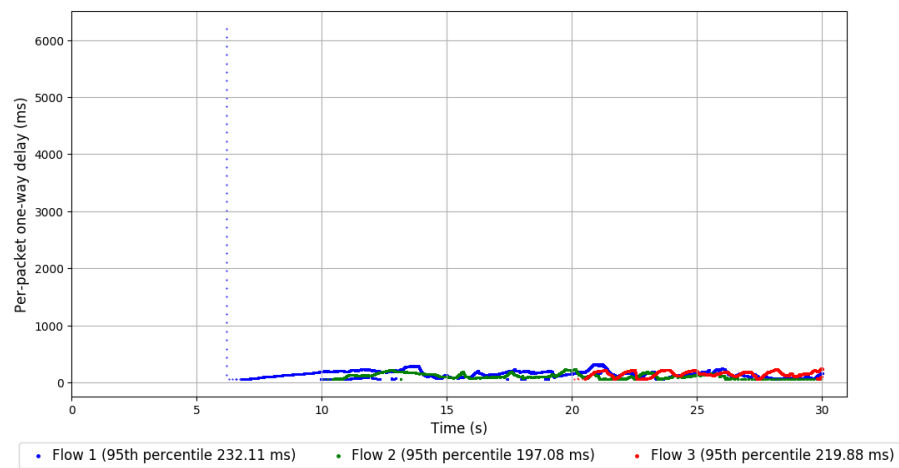
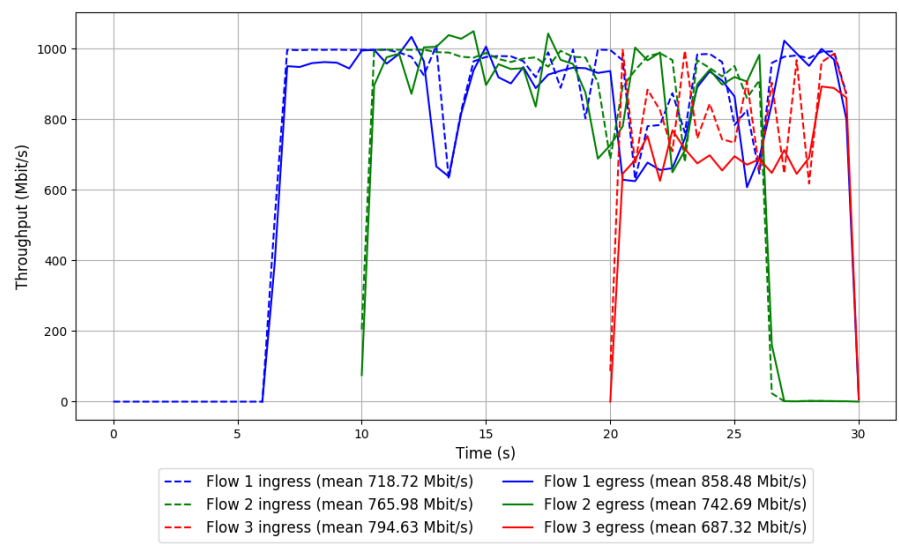


Run 8: Statistics of FillP

Start at: 2018-01-03 10:42:24

End at: 2018-01-03 10:42:54

Run 8: Report of FillP — Data Link

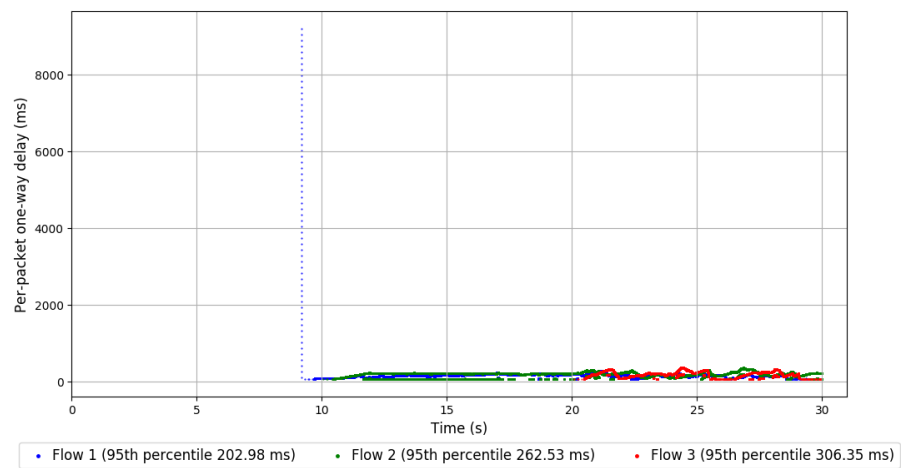
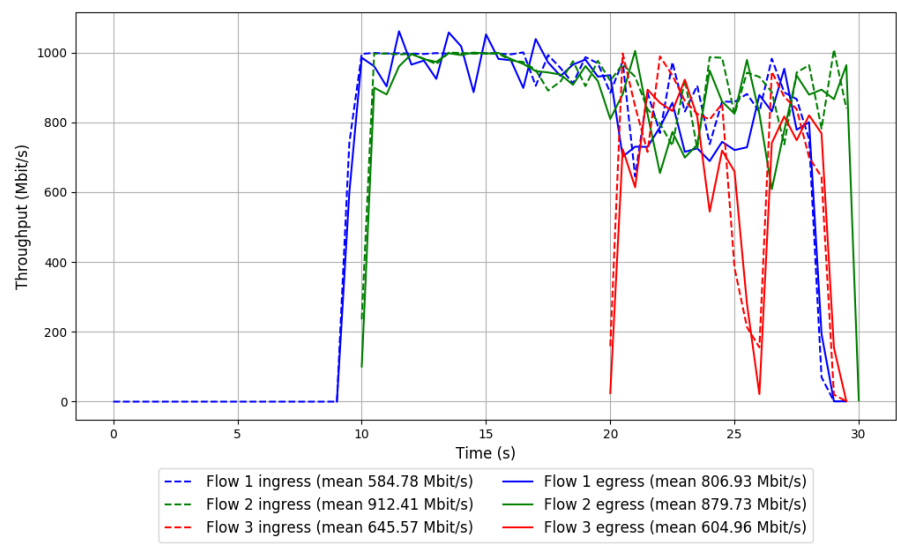


Run 9: Statistics of FillP

Start at: 2018-01-03 10:56:23

End at: 2018-01-03 10:56:53

Run 9: Report of FillP — Data Link

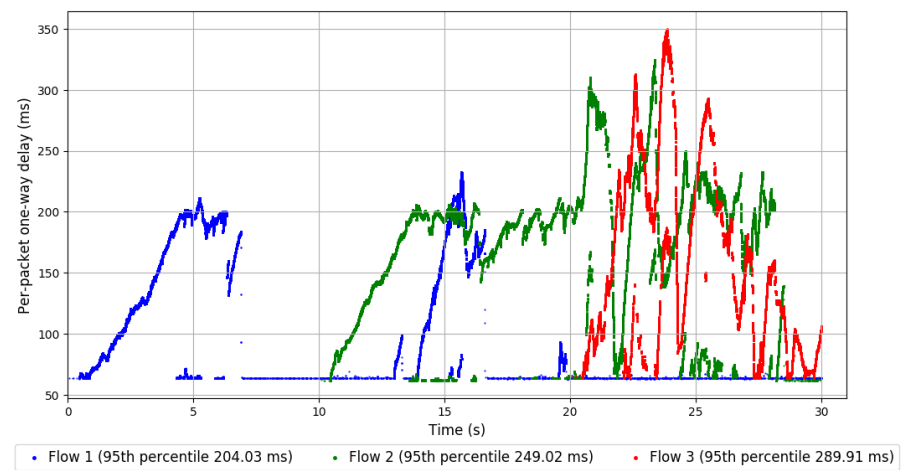
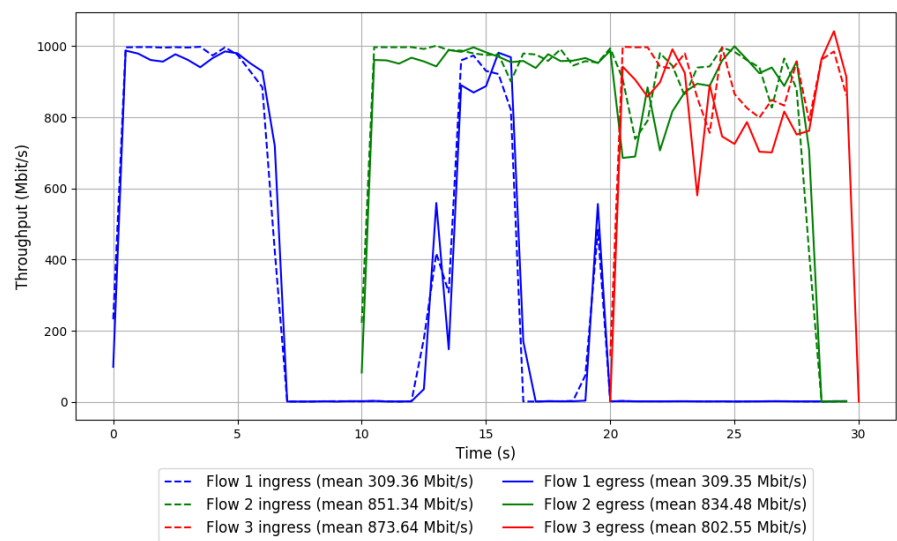


```
Run 10: Statistics of FillP

Start at: 2018-01-03 11:10:25
End at: 2018-01-03 11:10:55

# Below is generated by plot.py at 2018-01-03 13:54:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1129.07 Mbit/s
95th percentile per-packet one-way delay: 259.795 ms
Loss rate: 2.99%
-- Flow 1:
Average throughput: 309.35 Mbit/s
95th percentile per-packet one-way delay: 204.034 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 834.48 Mbit/s
95th percentile per-packet one-way delay: 249.016 ms
Loss rate: 1.98%
-- Flow 3:
Average throughput: 802.55 Mbit/s
95th percentile per-packet one-way delay: 289.907 ms
Loss rate: 8.15%
```

Run 10: Report of FillP — Data Link

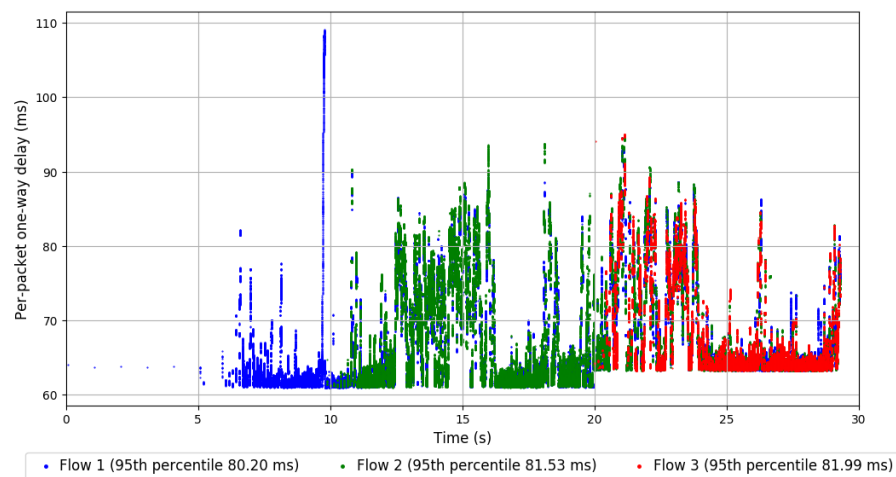
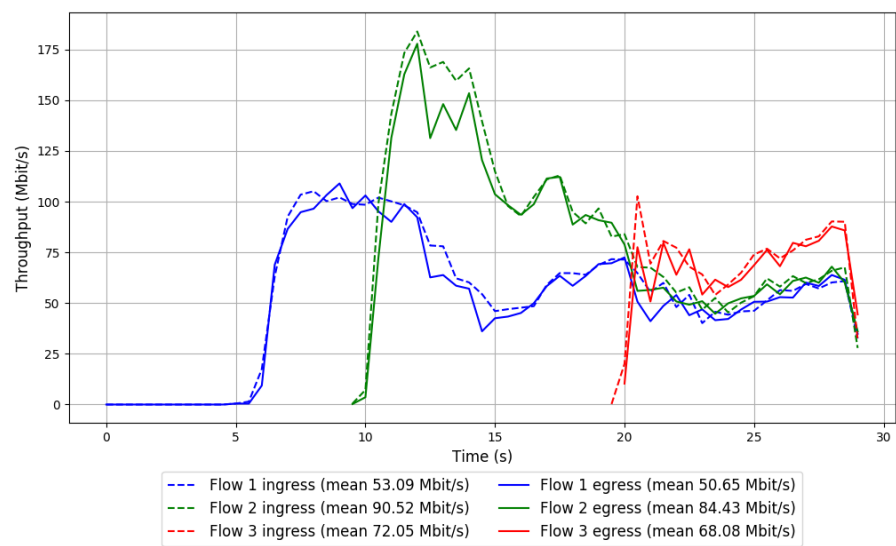


```
Run 1: Statistics of Indigo

Start at: 2018-01-03 09:02:11
End at: 2018-01-03 09:02:41

# Below is generated by plot.py at 2018-01-03 13:54:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 128.32 Mbit/s
95th percentile per-packet one-way delay: 81.218 ms
Loss rate: 5.64%
-- Flow 1:
Average throughput: 50.65 Mbit/s
95th percentile per-packet one-way delay: 80.204 ms
Loss rate: 4.59%
-- Flow 2:
Average throughput: 84.43 Mbit/s
95th percentile per-packet one-way delay: 81.532 ms
Loss rate: 6.66%
-- Flow 3:
Average throughput: 68.08 Mbit/s
95th percentile per-packet one-way delay: 81.994 ms
Loss rate: 5.41%
```

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2018-01-03 09:14:29

End at: 2018-01-03 09:14:59

Below is generated by plot.py at 2018-01-03 13:54:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 259.26 Mbit/s

95th percentile per-packet one-way delay: 76.253 ms

Loss rate: 4.37%

-- Flow 1:

Average throughput: 166.44 Mbit/s

95th percentile per-packet one-way delay: 77.464 ms

Loss rate: 3.85%

-- Flow 2:

Average throughput: 71.55 Mbit/s

95th percentile per-packet one-way delay: 76.517 ms

Loss rate: 6.92%

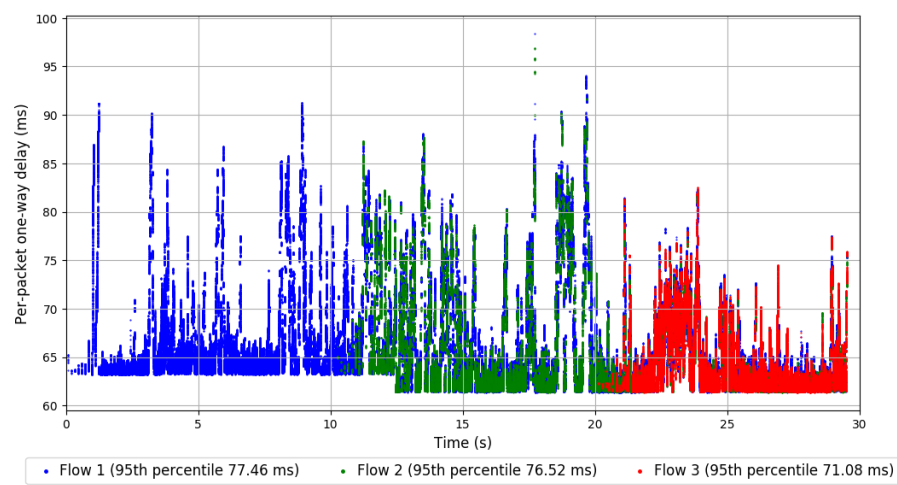
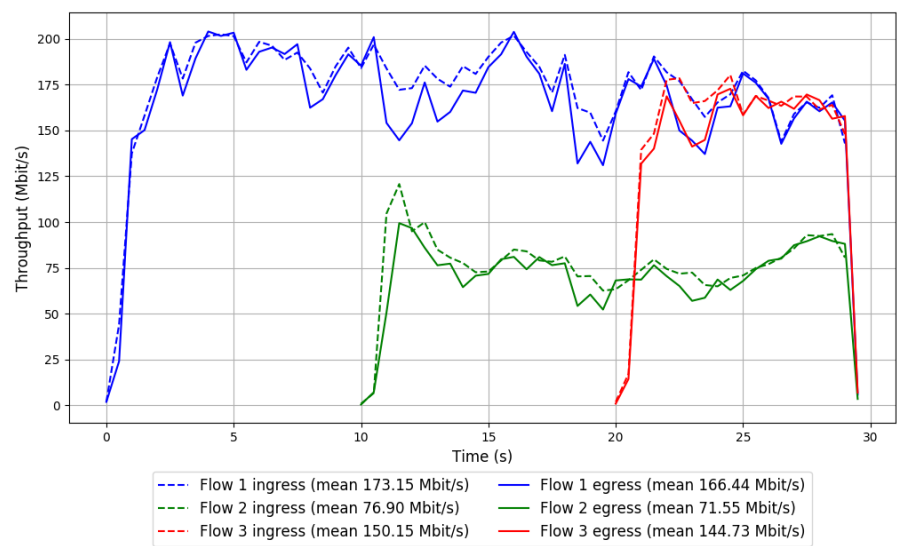
-- Flow 3:

Average throughput: 144.73 Mbit/s

95th percentile per-packet one-way delay: 71.082 ms

Loss rate: 3.54%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2018-01-03 09:27:17

End at: 2018-01-03 09:27:47

Below is generated by plot.py at 2018-01-03 13:54:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 331.30 Mbit/s

95th percentile per-packet one-way delay: 66.352 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 175.34 Mbit/s

95th percentile per-packet one-way delay: 65.350 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 164.89 Mbit/s

95th percentile per-packet one-way delay: 67.360 ms

Loss rate: 0.00%

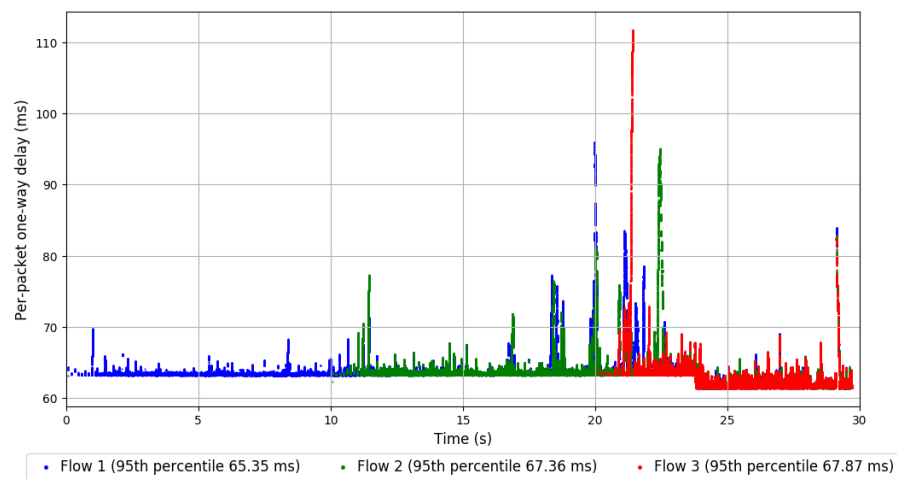
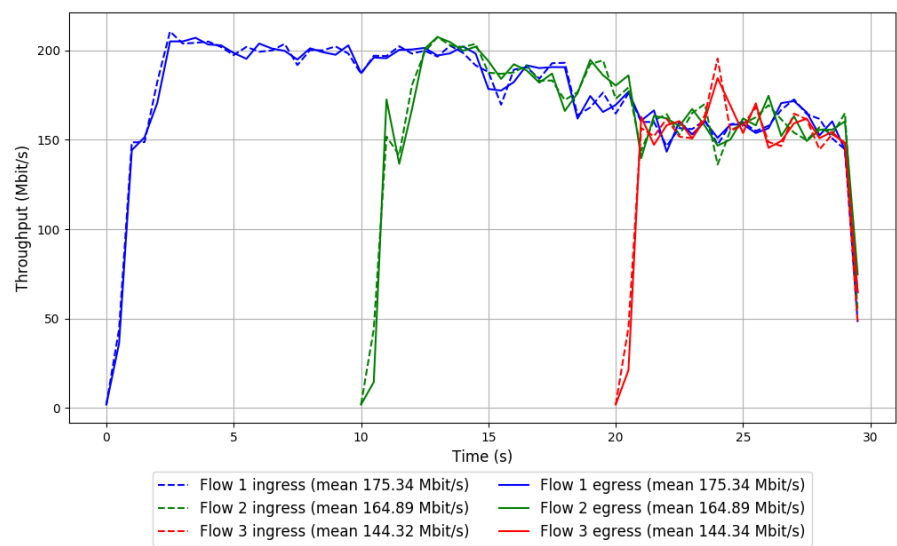
-- Flow 3:

Average throughput: 144.34 Mbit/s

95th percentile per-packet one-way delay: 67.874 ms

Loss rate: 0.01%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2018-01-03 09:40:43

End at: 2018-01-03 09:41:13

Below is generated by plot.py at 2018-01-03 13:54:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 327.36 Mbit/s

95th percentile per-packet one-way delay: 64.138 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 176.69 Mbit/s

95th percentile per-packet one-way delay: 63.852 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 170.32 Mbit/s

95th percentile per-packet one-way delay: 64.311 ms

Loss rate: 0.00%

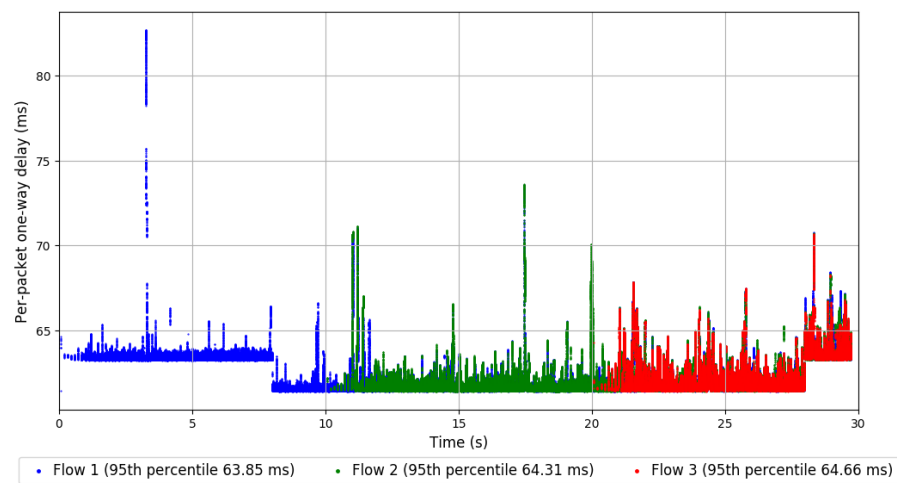
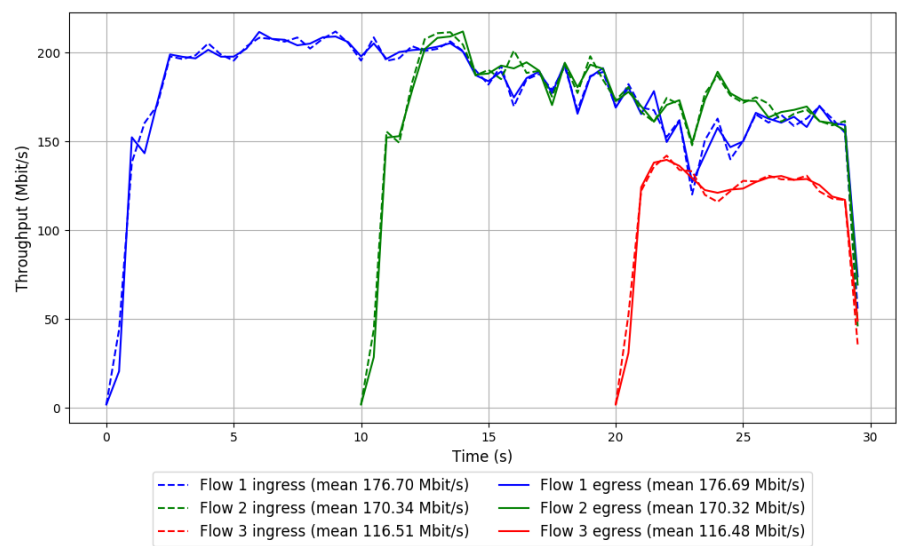
-- Flow 3:

Average throughput: 116.48 Mbit/s

95th percentile per-packet one-way delay: 64.660 ms

Loss rate: 0.00%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2018-01-03 09:54:48

End at: 2018-01-03 09:55:18

Below is generated by plot.py at 2018-01-03 13:54:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 322.39 Mbit/s

95th percentile per-packet one-way delay: 67.063 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 167.51 Mbit/s

95th percentile per-packet one-way delay: 66.108 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 165.68 Mbit/s

95th percentile per-packet one-way delay: 67.061 ms

Loss rate: 0.08%

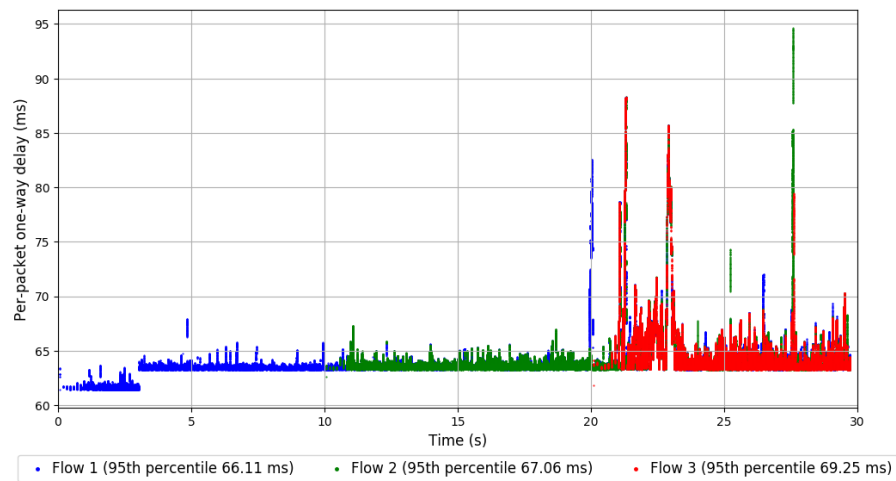
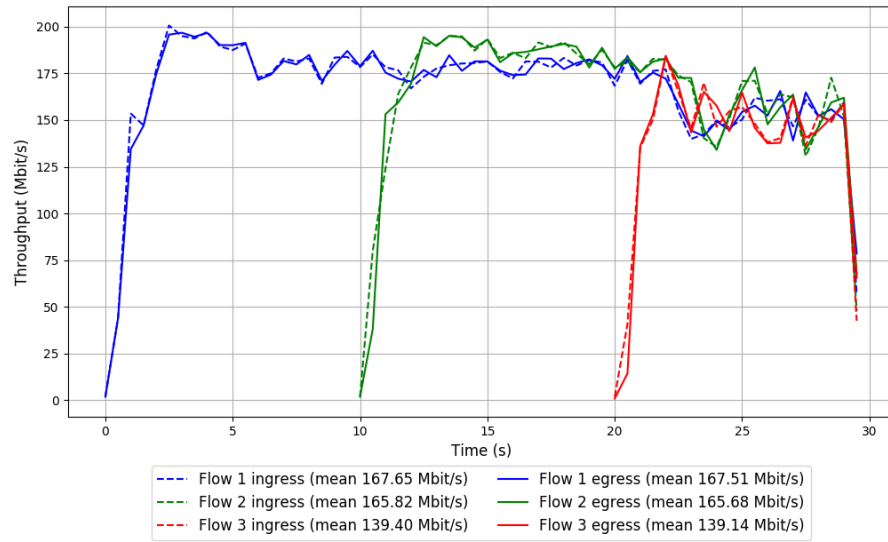
-- Flow 3:

Average throughput: 139.14 Mbit/s

95th percentile per-packet one-way delay: 69.252 ms

Loss rate: 0.16%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2018-01-03 10:08:26

End at: 2018-01-03 10:08:56

Below is generated by plot.py at 2018-01-03 13:54:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 321.91 Mbit/s

95th percentile per-packet one-way delay: 68.472 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 177.03 Mbit/s

95th percentile per-packet one-way delay: 66.247 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 170.47 Mbit/s

95th percentile per-packet one-way delay: 69.902 ms

Loss rate: 0.00%

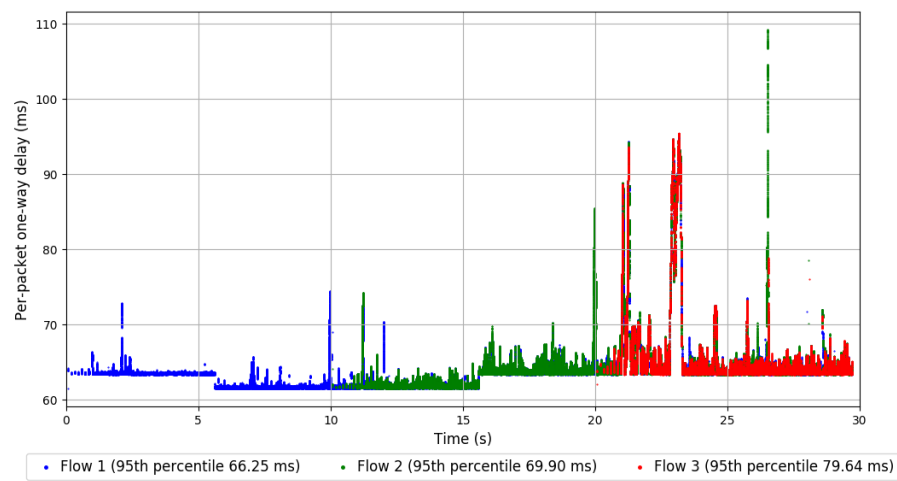
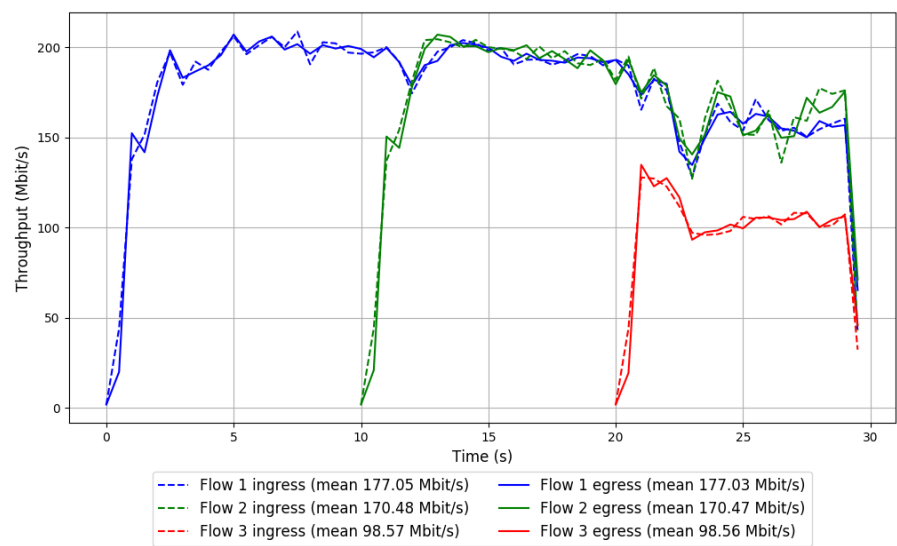
-- Flow 3:

Average throughput: 98.56 Mbit/s

95th percentile per-packet one-way delay: 79.645 ms

Loss rate: 0.00%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2018-01-03 10:22:41

End at: 2018-01-03 10:23:11

Below is generated by plot.py at 2018-01-03 13:54:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 333.76 Mbit/s

95th percentile per-packet one-way delay: 66.613 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 174.59 Mbit/s

95th percentile per-packet one-way delay: 65.155 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 170.08 Mbit/s

95th percentile per-packet one-way delay: 70.354 ms

Loss rate: 0.00%

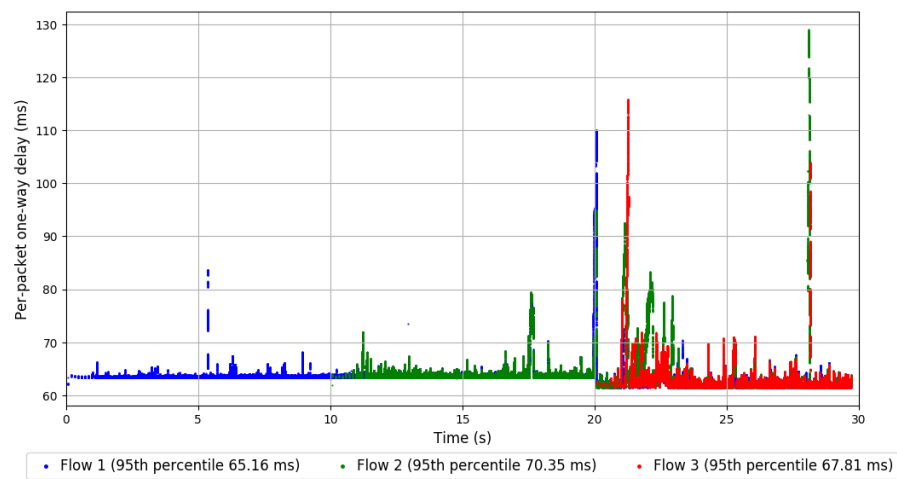
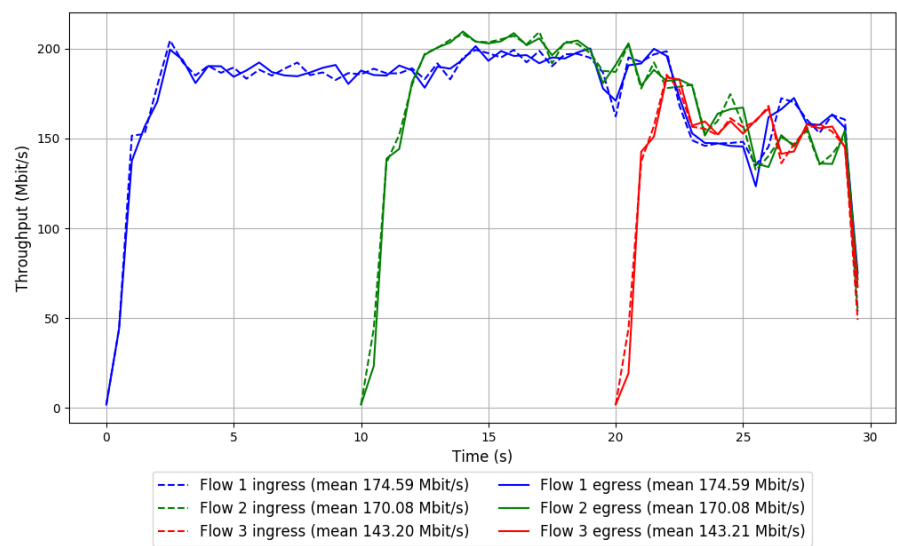
-- Flow 3:

Average throughput: 143.21 Mbit/s

95th percentile per-packet one-way delay: 67.805 ms

Loss rate: 0.00%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2018-01-03 10:36:55

End at: 2018-01-03 10:37:25

Below is generated by plot.py at 2018-01-03 13:54:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 339.84 Mbit/s

95th percentile per-packet one-way delay: 66.544 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 180.16 Mbit/s

95th percentile per-packet one-way delay: 65.877 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 172.69 Mbit/s

95th percentile per-packet one-way delay: 66.865 ms

Loss rate: 0.00%

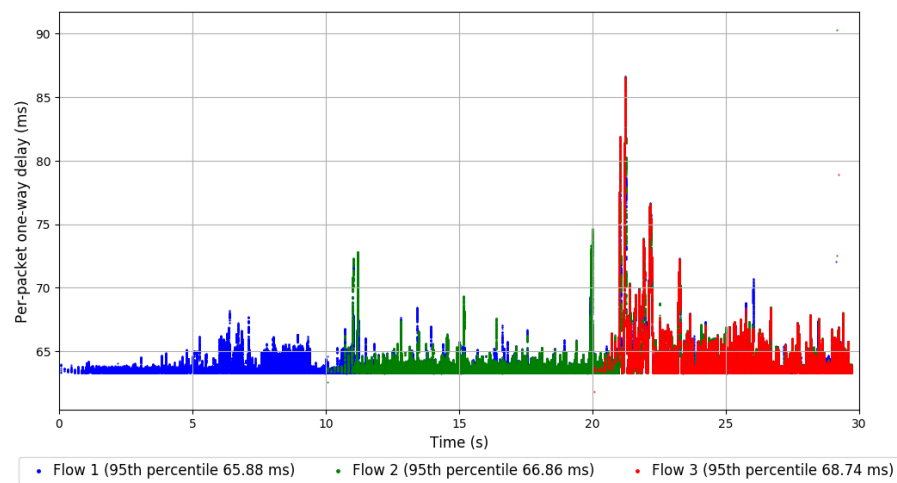
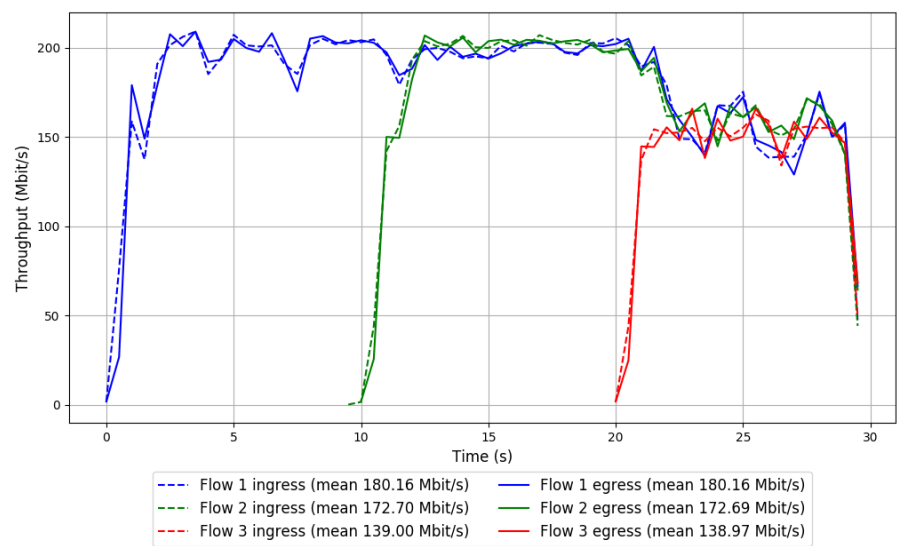
-- Flow 3:

Average throughput: 138.97 Mbit/s

95th percentile per-packet one-way delay: 68.736 ms

Loss rate: 0.00%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2018-01-03 10:50:57

End at: 2018-01-03 10:51:27

Below is generated by plot.py at 2018-01-03 13:55:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 330.14 Mbit/s

95th percentile per-packet one-way delay: 64.992 ms

Loss rate: 0.15%

-- Flow 1:

Average throughput: 173.29 Mbit/s

95th percentile per-packet one-way delay: 64.514 ms

Loss rate: 0.19%

-- Flow 2:

Average throughput: 166.33 Mbit/s

95th percentile per-packet one-way delay: 65.658 ms

Loss rate: 0.14%

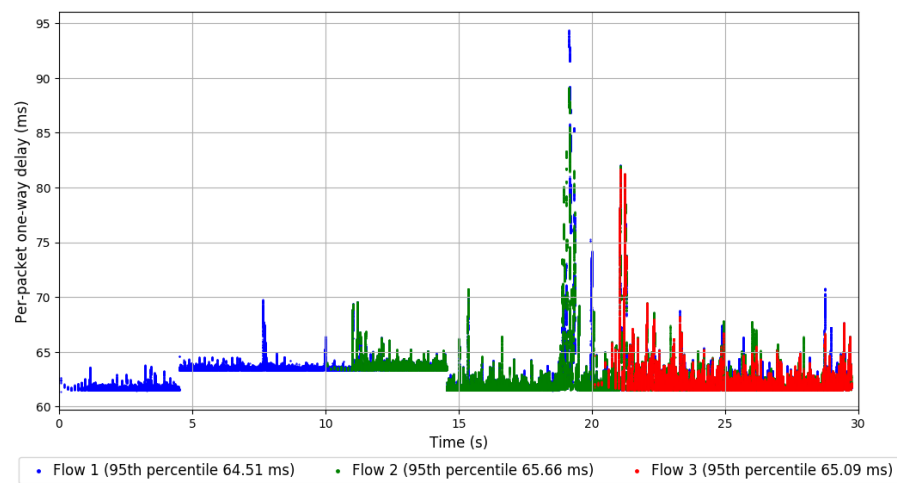
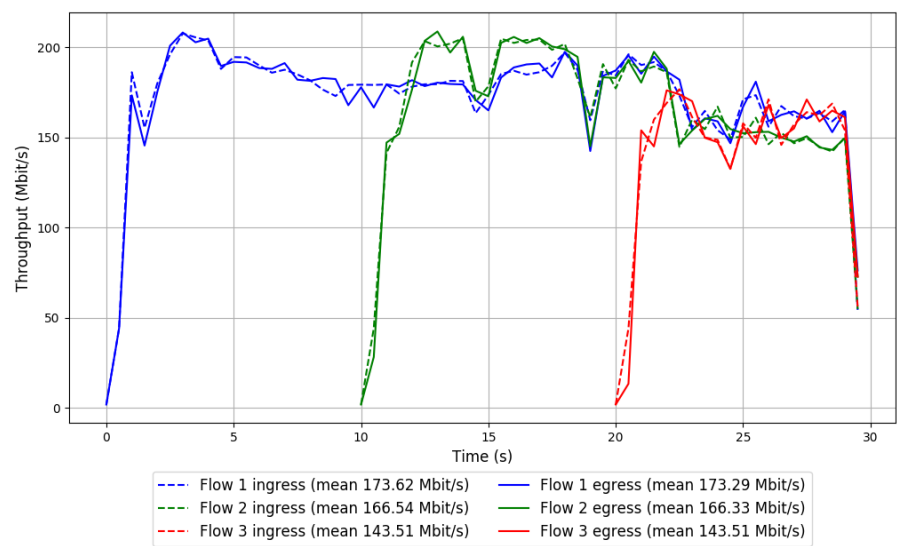
-- Flow 3:

Average throughput: 143.51 Mbit/s

95th percentile per-packet one-way delay: 65.093 ms

Loss rate: 0.00%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2018-01-03 11:04:56

End at: 2018-01-03 11:05:26

Below is generated by plot.py at 2018-01-03 13:55:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 319.81 Mbit/s

95th percentile per-packet one-way delay: 66.037 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 169.44 Mbit/s

95th percentile per-packet one-way delay: 65.167 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 157.53 Mbit/s

95th percentile per-packet one-way delay: 66.569 ms

Loss rate: 0.02%

-- Flow 3:

Average throughput: 142.27 Mbit/s

95th percentile per-packet one-way delay: 66.735 ms

Loss rate: 0.01%

Run 10: Report of Indigo — Data Link

