

Pantheon Report

Generated at 2018-01-10 03:48:15 (UTC).

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

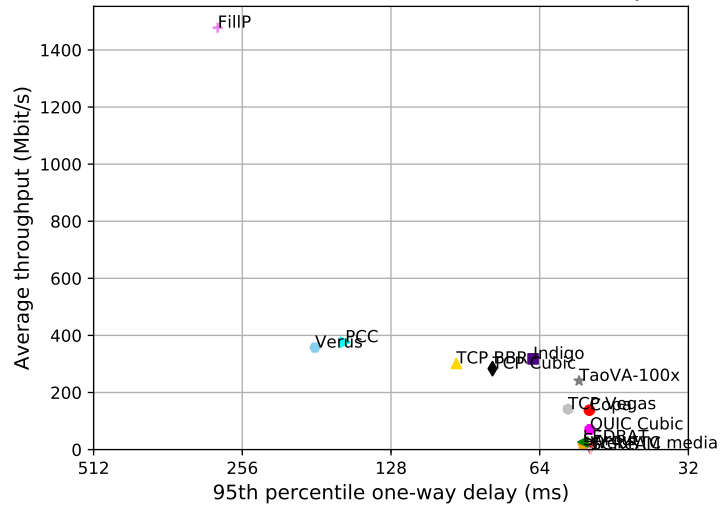
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

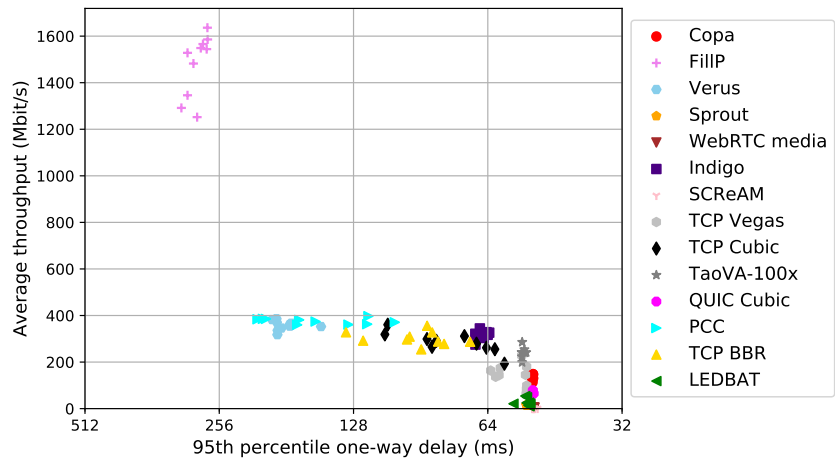
Git summary:

```
branch: master @ 56d1792c316a5efca3f2d21342905405fedffb48
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fixp @ ec9585325218d5048c4d4152fa42240af54c6e67
third_party/genericCC @ 80b516c448f795fd6e9675f7177b69c622f07da8
third_party/indigo @ b19f3730105f9aa95452552af924e3719b03cc55
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
  M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ fb1053193c2861da659ba9013db26744ccfcf993
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
  M receiver/src/buffer.h
  M receiver/src/core.cpp
  M sender/src/buffer.h
  M sender/src/core.cpp
third_party/proto-quick @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eaaeb30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
  M src/examples/cellsim.cc
  M src/examples/sproutbt2.cc
  M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/webRTC @ a488197ddd041ace68a42849b2540ad834825f42
```

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



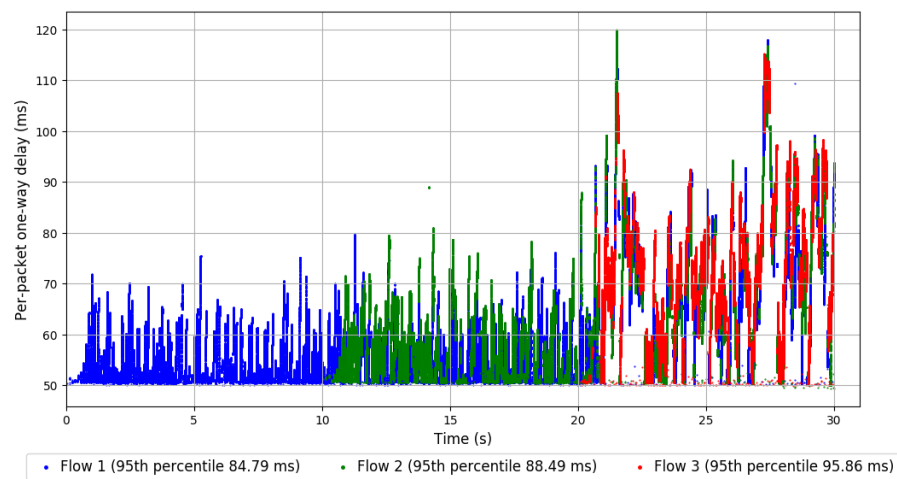
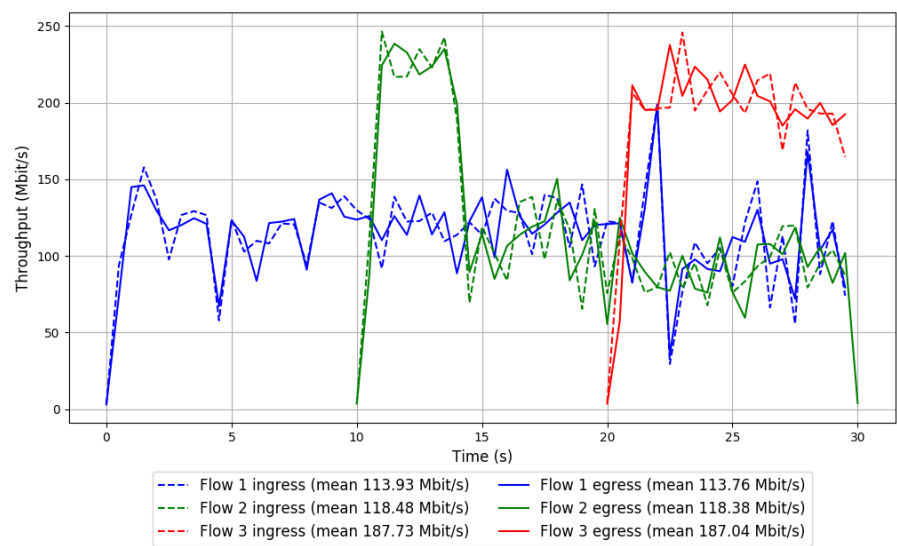
scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	10	140.36	160.95	164.59	87.93	92.84	102.30	0.17	0.01	0.19
TCP Cubic	10	153.38	138.54	114.58	77.54	79.05	83.04	0.23	0.09	0.10
LEDBAT	10	15.55	12.14	8.72	52.09	53.02	53.23	0.62	0.57	0.43
PCC	10	336.22	41.18	38.35	158.17	158.43	156.71	0.29	0.32	0.62
QUIC Cubic	5	42.55	28.20	28.52	50.30	50.42	50.22	0.00	0.00	0.00
SCReAM	10	0.22	0.22	0.22	50.34	50.35	50.18	0.00	0.00	0.00
WebRTC media	10	2.25	1.42	0.60	50.11	50.41	50.64	0.00	0.00	0.00
Sprout	10	7.82	7.77	7.48	52.24	52.31	52.24	0.58	0.35	0.37
TaoVA-100x	7	126.57	127.76	119.40	52.60	54.12	55.93	0.02	0.02	0.00
TCP Vegas	10	69.94	72.28	71.29	54.98	55.29	54.02	0.09	0.32	0.15
Verus	10	225.25	157.21	88.51	174.15	187.40	195.49	1.39	1.48	2.42
Copa	10	74.48	73.77	56.95	50.72	50.83	54.22	0.00	0.00	4.62
FillP	10	764.56	721.15	709.43	280.18	281.22	296.92	8.30	8.69	13.60
Indigo	10	177.88	173.81	69.92	64.30	66.85	72.57	0.03	0.02	0.06

```
Run 1: Statistics of TCP BBR

Start at: 2018-01-09 22:36:08
End at: 2018-01-09 22:36:38

# Below is generated by plot.py at 2018-01-10 02:30:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 254.62 Mbit/s
95th percentile per-packet one-way delay: 90.247 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 113.76 Mbit/s
95th percentile per-packet one-way delay: 84.794 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 118.38 Mbit/s
95th percentile per-packet one-way delay: 88.492 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 187.04 Mbit/s
95th percentile per-packet one-way delay: 95.858 ms
Loss rate: 0.55%
```


Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-01-09 22:49:57

End at: 2018-01-09 22:50:27

Below is generated by plot.py at 2018-01-10 02:30:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 288.13 Mbit/s

95th percentile per-packet one-way delay: 82.697 ms

Loss rate: 0.19%

-- Flow 1:

Average throughput: 117.77 Mbit/s

95th percentile per-packet one-way delay: 75.563 ms

Loss rate: 0.46%

-- Flow 2:

Average throughput: 160.01 Mbit/s

95th percentile per-packet one-way delay: 78.448 ms

Loss rate: 0.00%

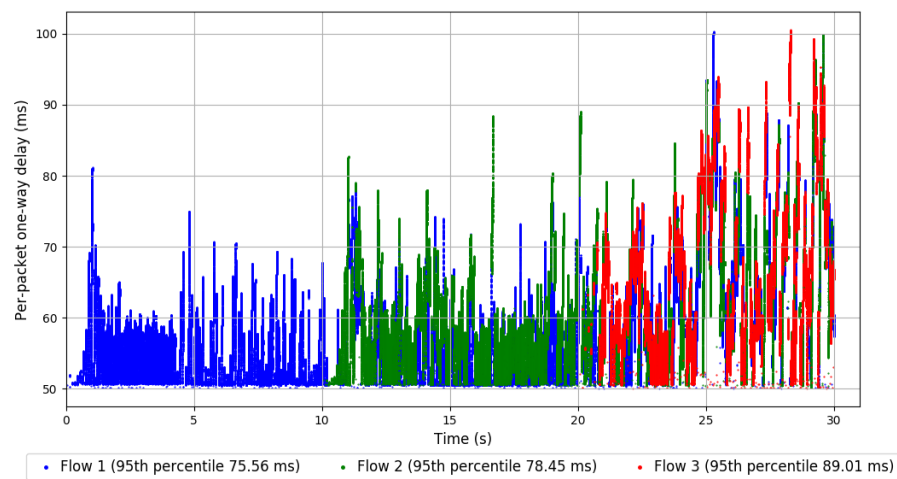
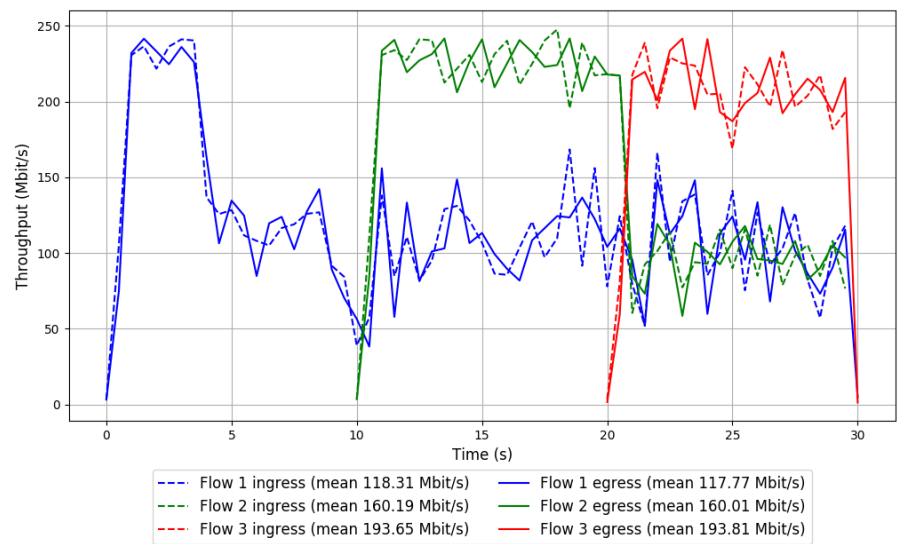
-- Flow 3:

Average throughput: 193.81 Mbit/s

95th percentile per-packet one-way delay: 89.010 ms

Loss rate: 0.00%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

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

End at: 2018-01-09 23:04:05

Below is generated by plot.py at 2018-01-10 02:31:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 327.46 Mbit/s

95th percentile per-packet one-way delay: 85.279 ms

Loss rate: 0.14%

-- Flow 1:

Average throughput: 160.56 Mbit/s

95th percentile per-packet one-way delay: 80.268 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 158.31 Mbit/s

95th percentile per-packet one-way delay: 79.339 ms

Loss rate: 0.00%

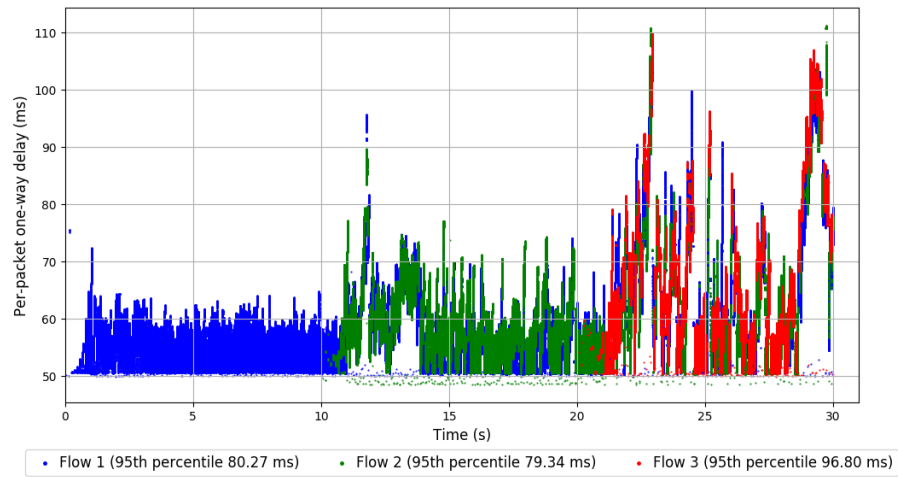
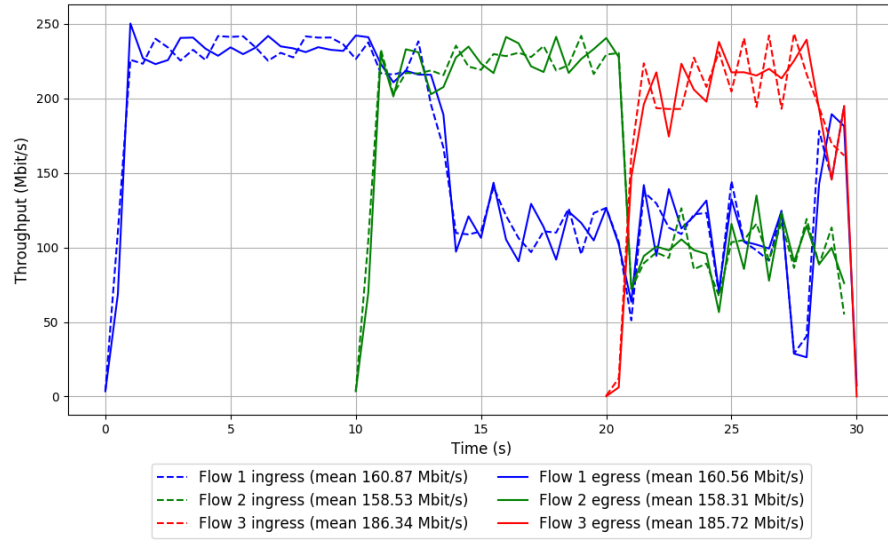
-- Flow 3:

Average throughput: 185.72 Mbit/s

95th percentile per-packet one-way delay: 96.801 ms

Loss rate: 0.41%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-01-09 23:17:23

End at: 2018-01-09 23:17:53

Below is generated by plot.py at 2018-01-10 02:31:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 309.28 Mbit/s

95th percentile per-packet one-way delay: 95.810 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 137.34 Mbit/s

95th percentile per-packet one-way delay: 87.794 ms

Loss rate: 0.23%

-- Flow 2:

Average throughput: 172.28 Mbit/s

95th percentile per-packet one-way delay: 94.995 ms

Loss rate: 0.00%

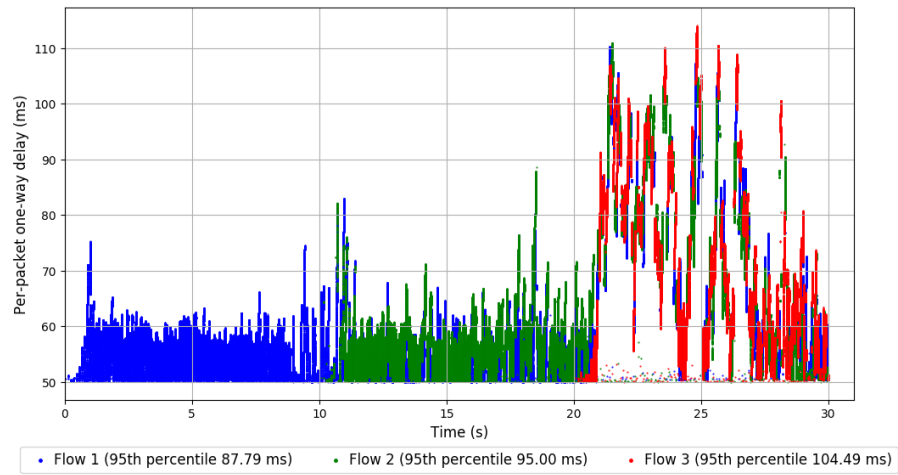
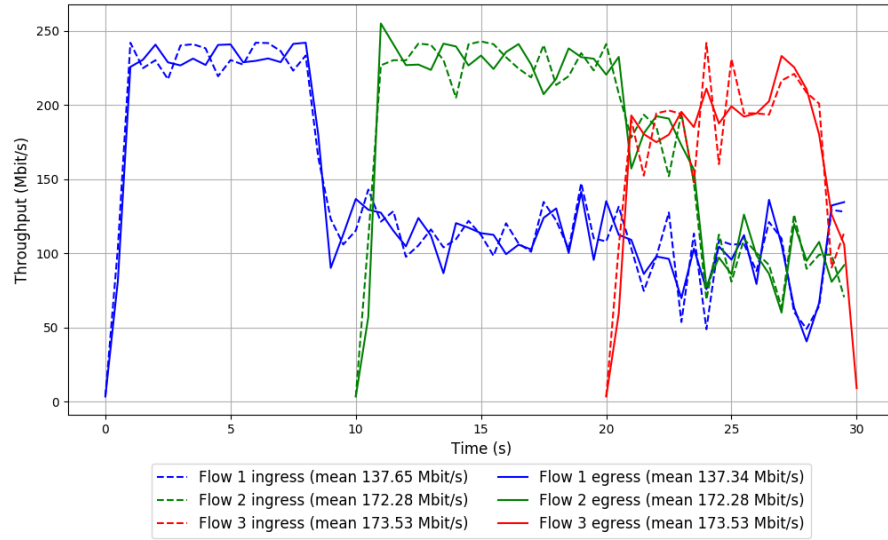
-- Flow 3:

Average throughput: 173.53 Mbit/s

95th percentile per-packet one-way delay: 104.487 ms

Loss rate: 0.00%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-01-09 23:31:11

End at: 2018-01-09 23:31:41

Below is generated by plot.py at 2018-01-10 02:31:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 297.17 Mbit/s

95th percentile per-packet one-way delay: 97.123 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 141.91 Mbit/s

95th percentile per-packet one-way delay: 82.328 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 181.37 Mbit/s

95th percentile per-packet one-way delay: 97.797 ms

Loss rate: 0.00%

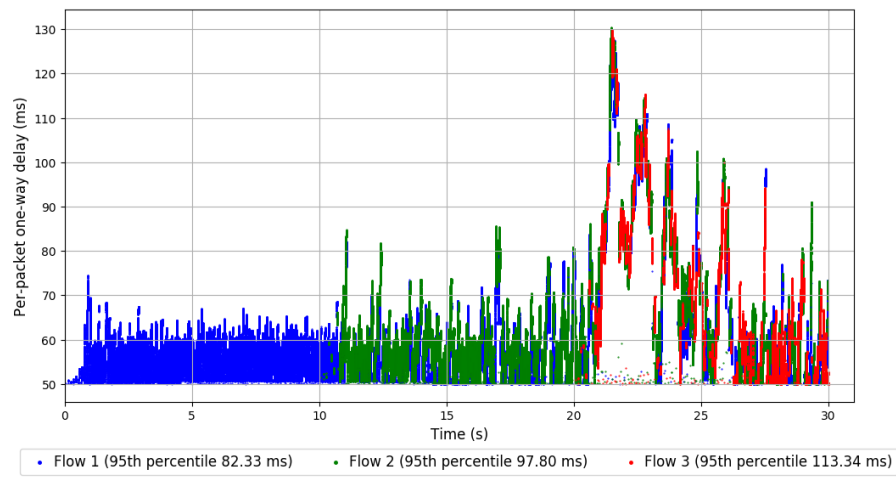
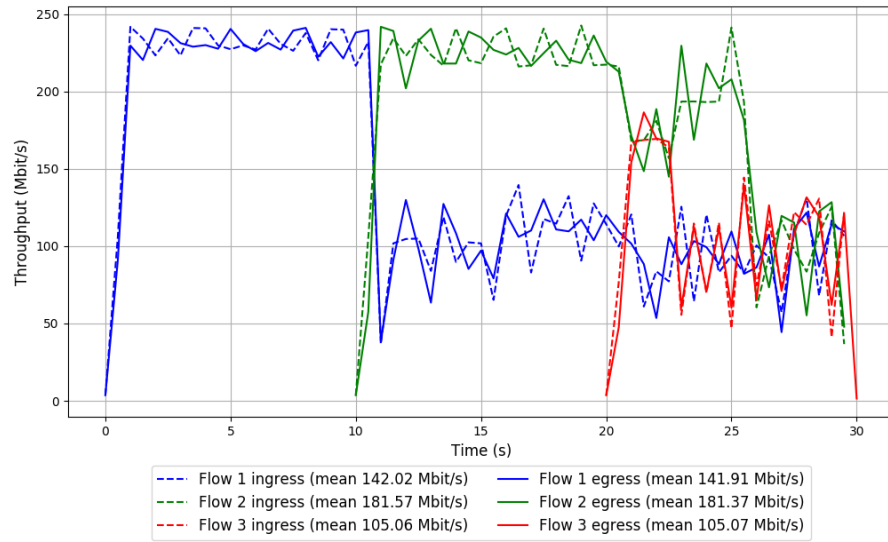
-- Flow 3:

Average throughput: 105.07 Mbit/s

95th percentile per-packet one-way delay: 113.337 ms

Loss rate: 0.00%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-01-09 23:44:43

End at: 2018-01-09 23:45:13

Below is generated by plot.py at 2018-01-10 02:31:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 278.03 Mbit/s

95th percentile per-packet one-way delay: 80.188 ms

Loss rate: 0.26%

-- Flow 1:

Average throughput: 120.06 Mbit/s

95th percentile per-packet one-way delay: 75.994 ms

Loss rate: 0.50%

-- Flow 2:

Average throughput: 138.67 Mbit/s

95th percentile per-packet one-way delay: 77.546 ms

Loss rate: 0.00%

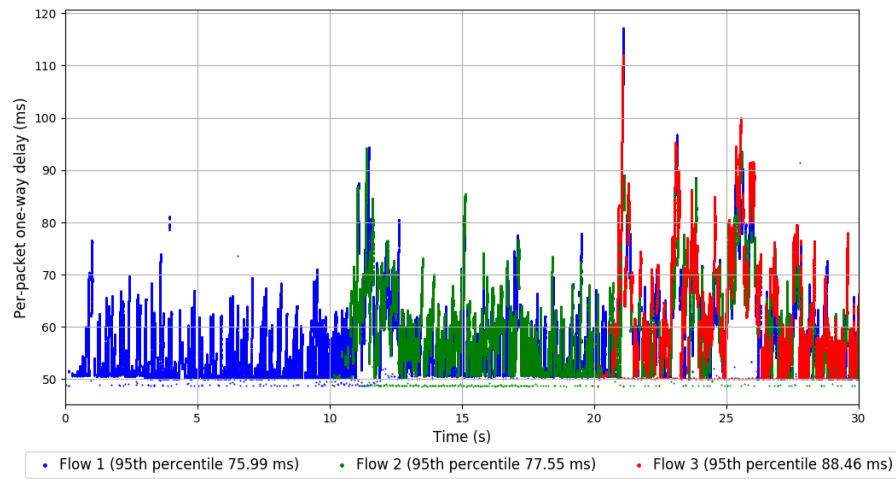
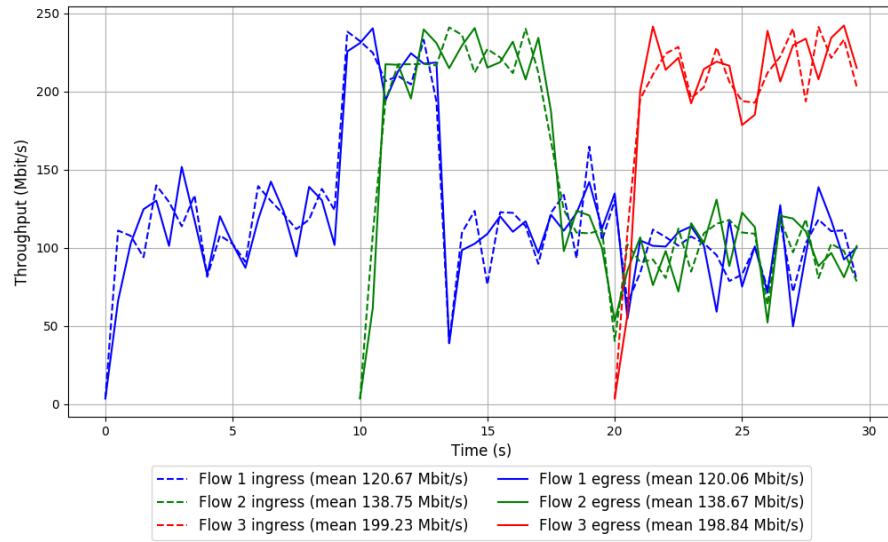
-- Flow 3:

Average throughput: 198.84 Mbit/s

95th percentile per-packet one-way delay: 88.460 ms

Loss rate: 0.20%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-01-09 23:58:31

End at: 2018-01-09 23:59:01

Below is generated by plot.py at 2018-01-10 02:31:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 327.92 Mbit/s

95th percentile per-packet one-way delay: 133.072 ms

Loss rate: 0.21%

-- Flow 1:

Average throughput: 172.60 Mbit/s

95th percentile per-packet one-way delay: 127.446 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 162.15 Mbit/s

95th percentile per-packet one-way delay: 134.047 ms

Loss rate: 0.04%

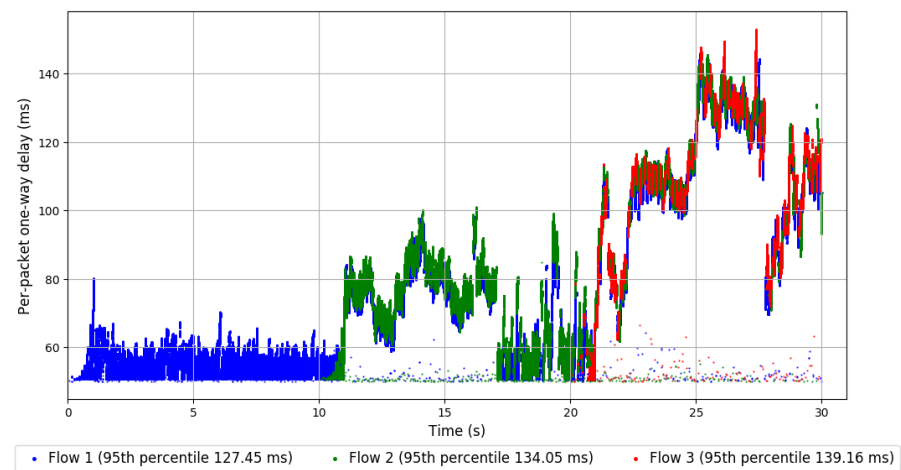
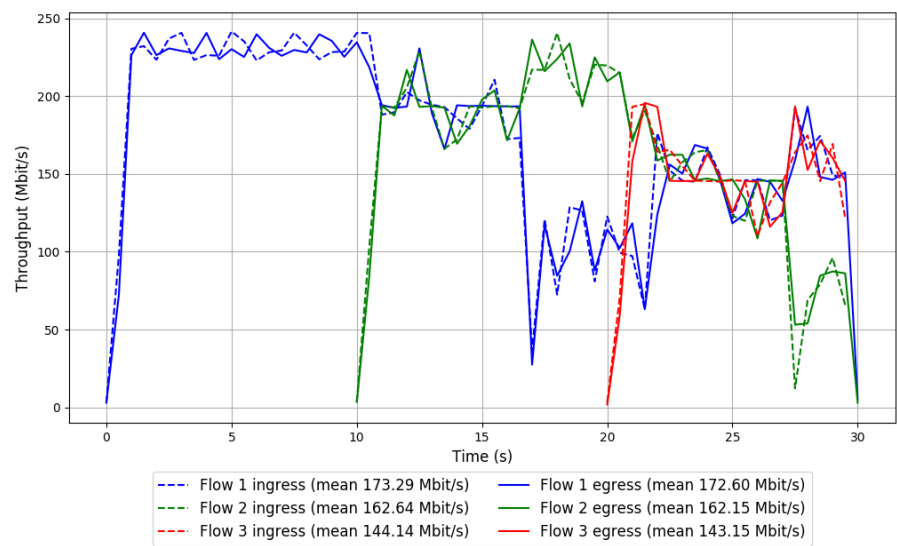
-- Flow 3:

Average throughput: 143.15 Mbit/s

95th percentile per-packet one-way delay: 139.157 ms

Loss rate: 0.00%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-01-10 00:12:05

End at: 2018-01-10 00:12:35

Below is generated by plot.py at 2018-01-10 02:31:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 292.00 Mbit/s

95th percentile per-packet one-way delay: 121.802 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 120.53 Mbit/s

95th percentile per-packet one-way delay: 117.297 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 182.50 Mbit/s

95th percentile per-packet one-way delay: 119.207 ms

Loss rate: 0.00%

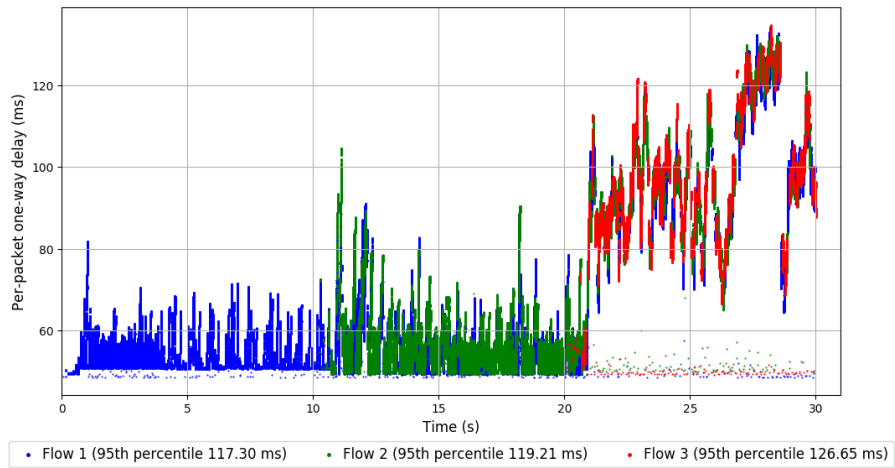
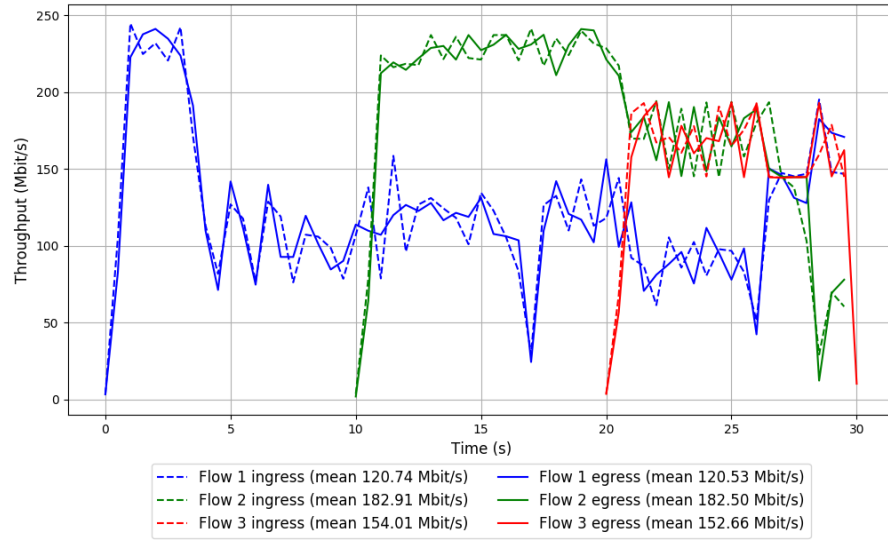
-- Flow 3:

Average throughput: 152.66 Mbit/s

95th percentile per-packet one-way delay: 126.654 ms

Loss rate: 0.68%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-01-10 00:25:48

End at: 2018-01-10 00:26:18

Below is generated by plot.py at 2018-01-10 02:36:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 355.99 Mbit/s

95th percentile per-packet one-way delay: 87.539 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 172.05 Mbit/s

95th percentile per-packet one-way delay: 80.482 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 186.55 Mbit/s

95th percentile per-packet one-way delay: 88.176 ms

Loss rate: 0.00%

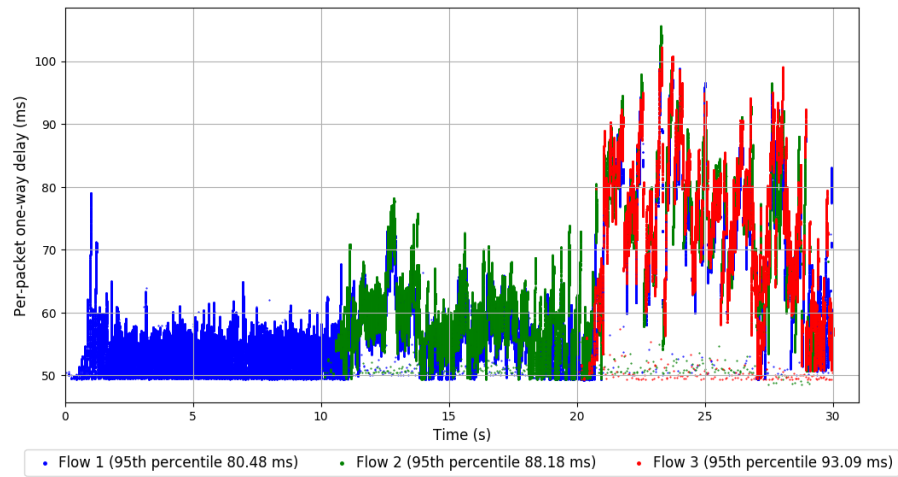
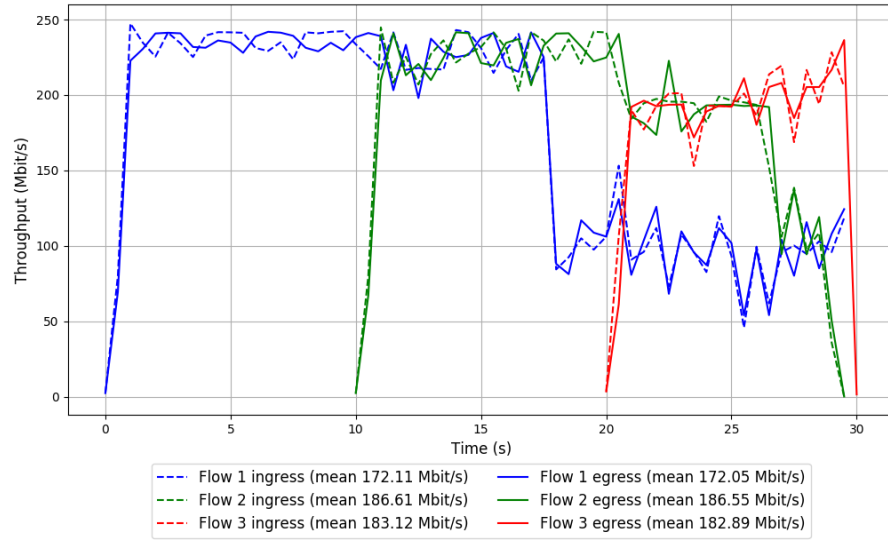
-- Flow 3:

Average throughput: 182.89 Mbit/s

95th percentile per-packet one-way delay: 93.090 ms

Loss rate: 0.09%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-01-10 00:39:29

End at: 2018-01-10 00:39:59

Below is generated by plot.py at 2018-01-10 02:36:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 287.25 Mbit/s

95th percentile per-packet one-way delay: 70.122 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 147.03 Mbit/s

95th percentile per-packet one-way delay: 67.336 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 149.27 Mbit/s

95th percentile per-packet one-way delay: 70.395 ms

Loss rate: 0.01%

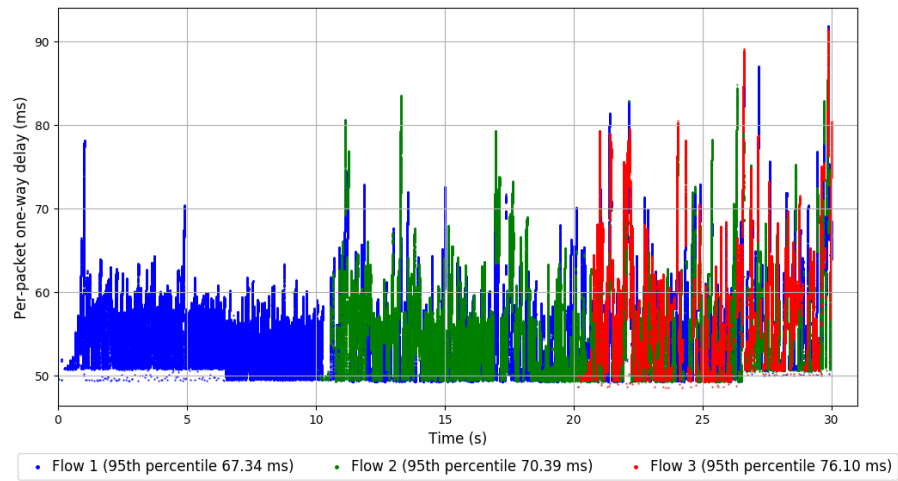
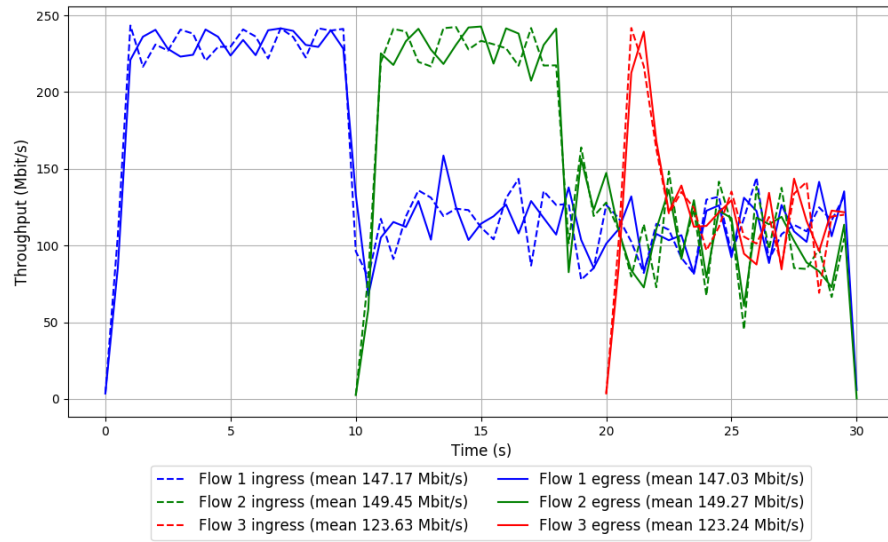
-- Flow 3:

Average throughput: 123.24 Mbit/s

95th percentile per-packet one-way delay: 76.103 ms

Loss rate: 0.01%

Run 10: Report of TCP BBR — Data Link

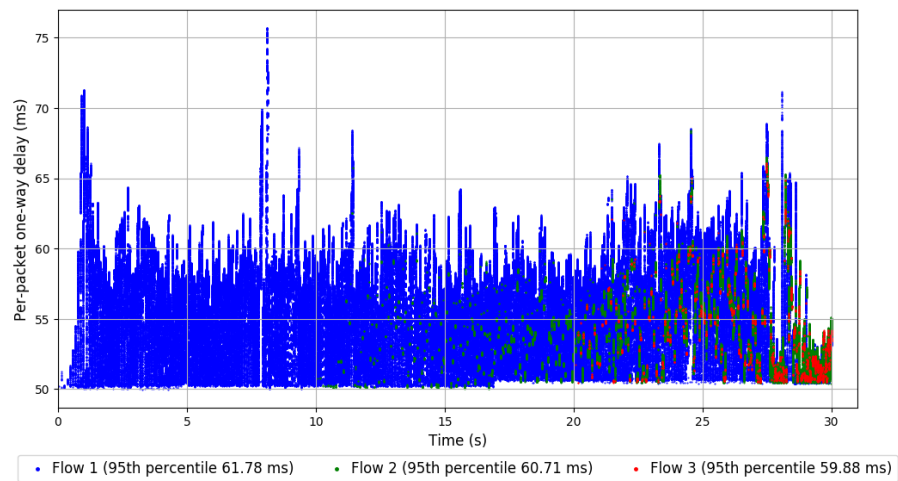
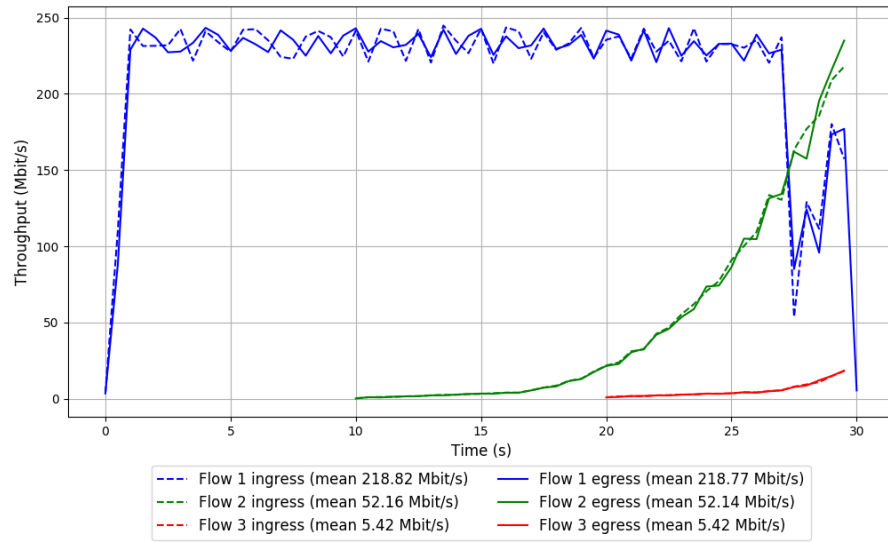


```
Run 1: Statistics of TCP Cubic

Start at: 2018-01-09 22:33:39
End at: 2018-01-09 22:34:09

# Below is generated by plot.py at 2018-01-10 02:36:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 255.27 Mbit/s
95th percentile per-packet one-way delay: 61.710 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 218.77 Mbit/s
95th percentile per-packet one-way delay: 61.781 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 52.14 Mbit/s
95th percentile per-packet one-way delay: 60.708 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 5.42 Mbit/s
95th percentile per-packet one-way delay: 59.881 ms
Loss rate: 0.09%
```

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-01-09 22:47:24

End at: 2018-01-09 22:47:54

Below is generated by plot.py at 2018-01-10 02:36:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 311.48 Mbit/s

95th percentile per-packet one-way delay: 72.205 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 150.54 Mbit/s

95th percentile per-packet one-way delay: 69.113 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 142.67 Mbit/s

95th percentile per-packet one-way delay: 70.279 ms

Loss rate: 0.25%

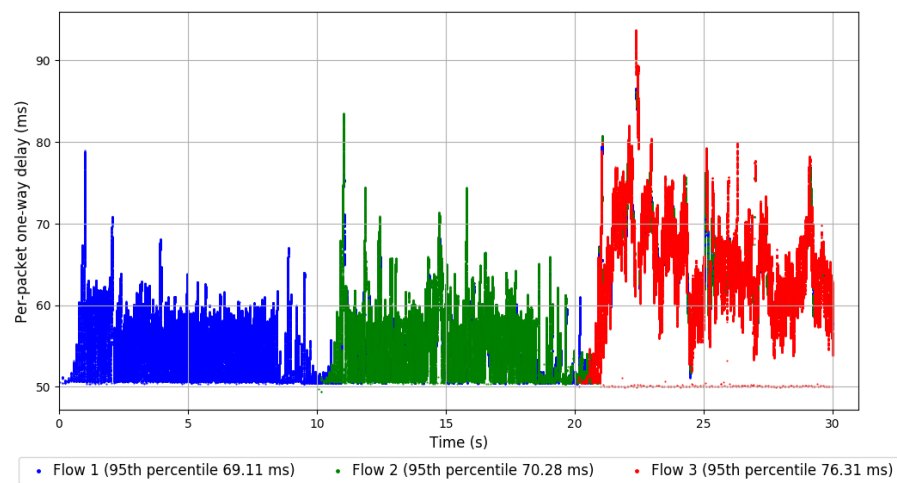
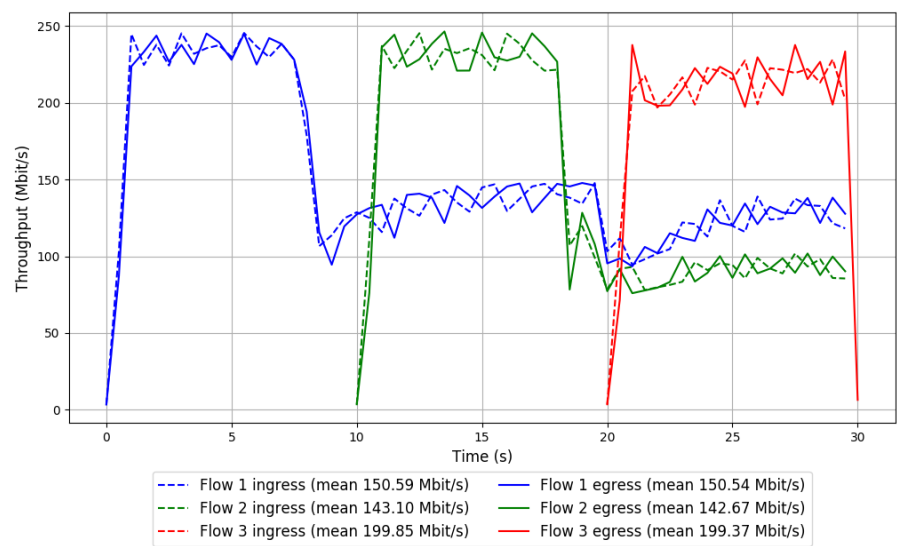
-- Flow 3:

Average throughput: 199.37 Mbit/s

95th percentile per-packet one-way delay: 76.314 ms

Loss rate: 0.20%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-01-09 23:01:04

End at: 2018-01-09 23:01:34

Below is generated by plot.py at 2018-01-10 02:36:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 318.83 Mbit/s

95th percentile per-packet one-way delay: 108.879 ms

Loss rate: 0.35%

-- Flow 1:

Average throughput: 136.26 Mbit/s

95th percentile per-packet one-way delay: 105.119 ms

Loss rate: 0.58%

-- Flow 2:

Average throughput: 194.87 Mbit/s

95th percentile per-packet one-way delay: 109.792 ms

Loss rate: 0.23%

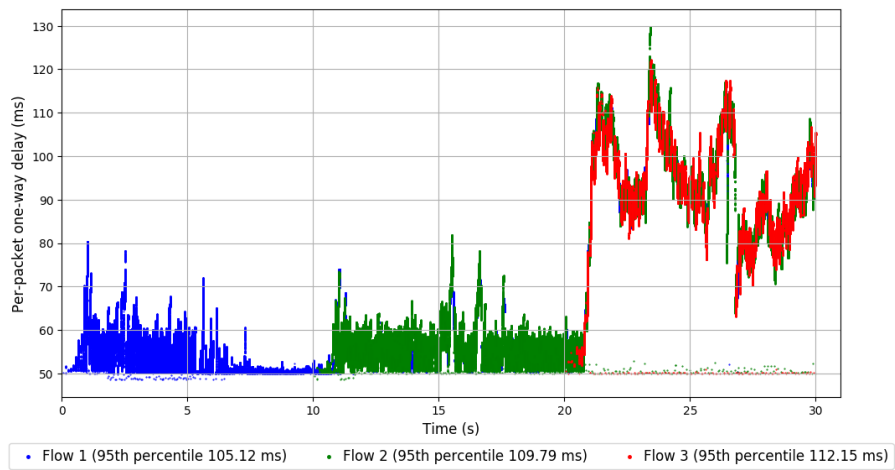
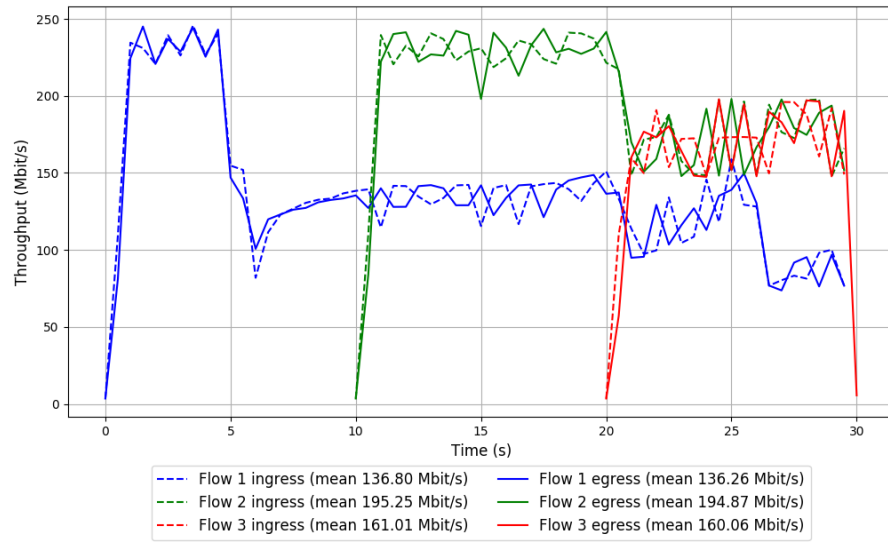
-- Flow 3:

Average throughput: 160.06 Mbit/s

95th percentile per-packet one-way delay: 112.149 ms

Loss rate: 0.06%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-01-09 23:14:54

End at: 2018-01-09 23:15:24

Below is generated by plot.py at 2018-01-10 02:36:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 298.96 Mbit/s

95th percentile per-packet one-way delay: 87.603 ms

Loss rate: 0.16%

-- Flow 1:

Average throughput: 130.34 Mbit/s

95th percentile per-packet one-way delay: 85.573 ms

Loss rate: 0.31%

-- Flow 2:

Average throughput: 193.38 Mbit/s

95th percentile per-packet one-way delay: 89.023 ms

Loss rate: 0.00%

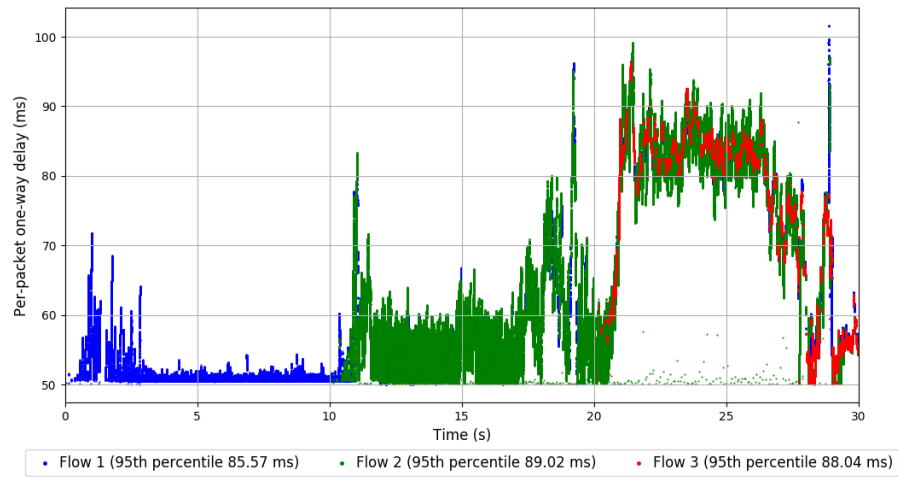
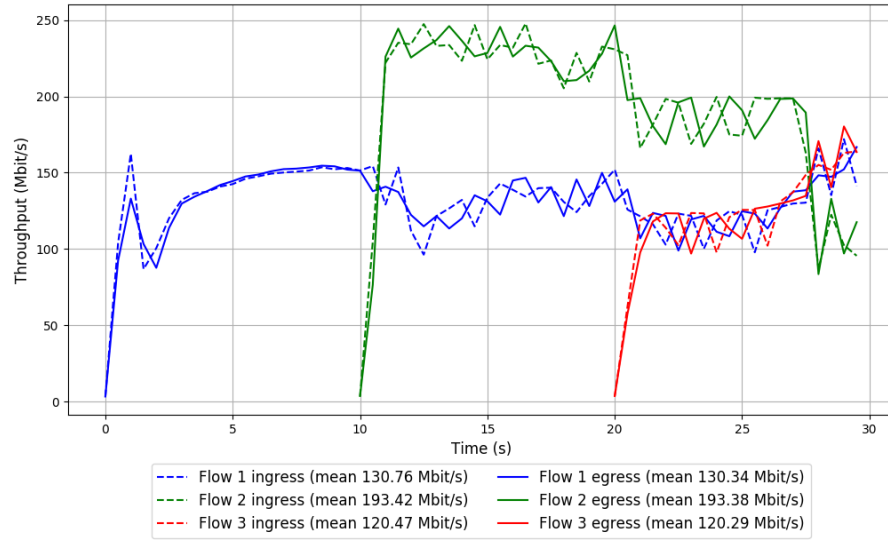
-- Flow 3:

Average throughput: 120.29 Mbit/s

95th percentile per-packet one-way delay: 88.039 ms

Loss rate: 0.16%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-01-09 23:28:49

End at: 2018-01-09 23:29:19

Below is generated by plot.py at 2018-01-10 02:36:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 193.17 Mbit/s

95th percentile per-packet one-way delay: 58.729 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 156.58 Mbit/s

95th percentile per-packet one-way delay: 58.792 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 52.23 Mbit/s

95th percentile per-packet one-way delay: 58.251 ms

Loss rate: 0.00%

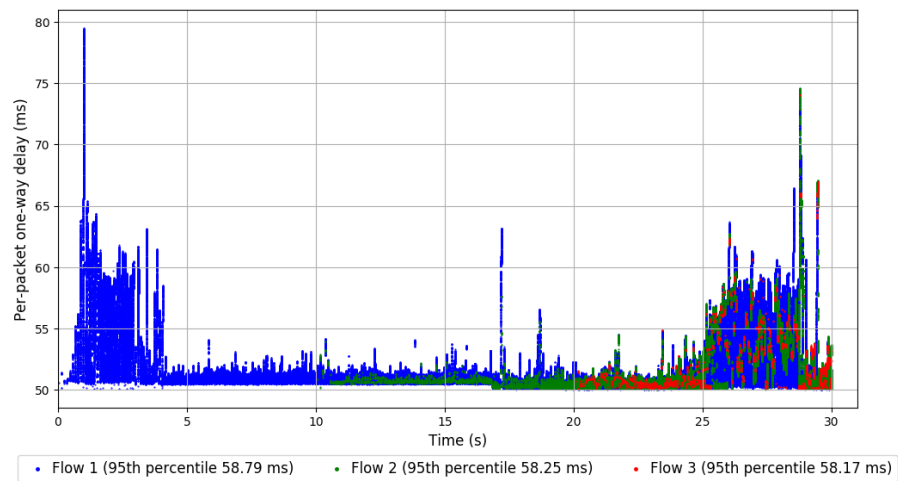
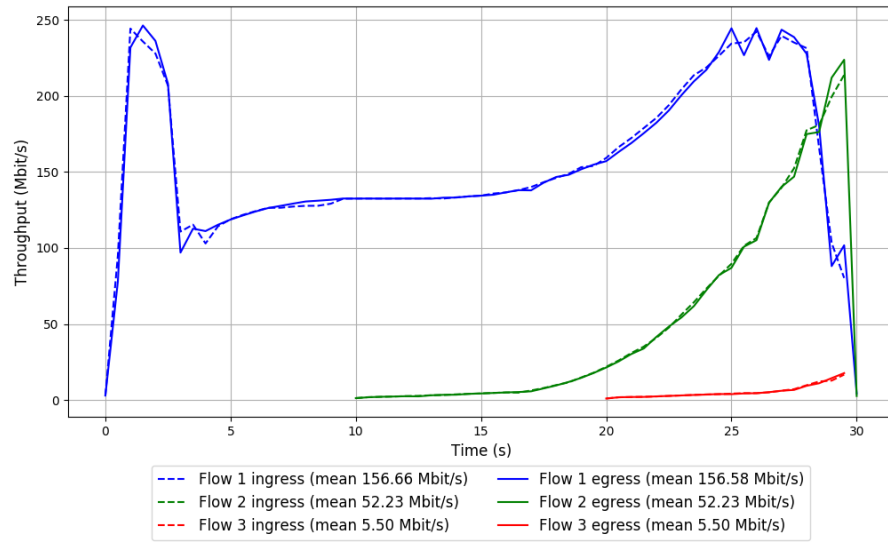
-- Flow 3:

Average throughput: 5.50 Mbit/s

95th percentile per-packet one-way delay: 58.168 ms

Loss rate: 0.04%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-01-09 23:42:14

End at: 2018-01-09 23:42:44

Below is generated by plot.py at 2018-01-10 02:36:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 279.00 Mbit/s

95th percentile per-packet one-way delay: 67.847 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 155.19 Mbit/s

95th percentile per-packet one-way delay: 65.647 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 124.25 Mbit/s

95th percentile per-packet one-way delay: 64.339 ms

Loss rate: 0.21%

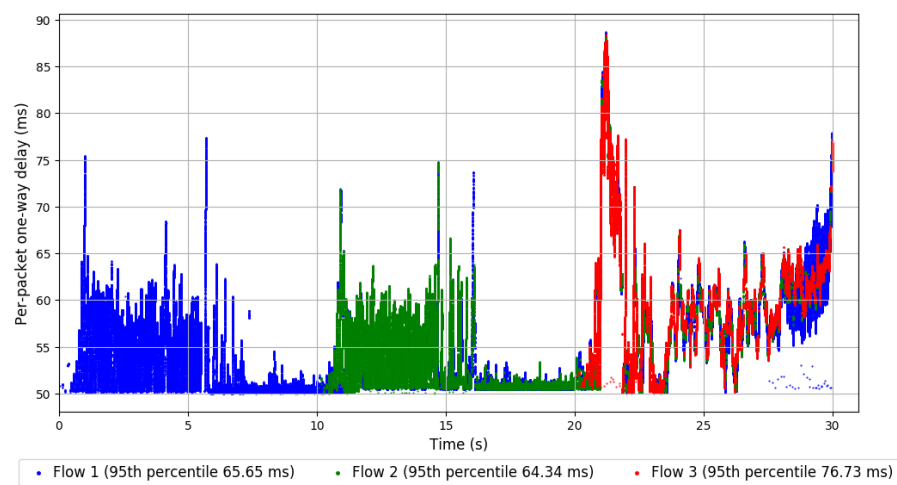
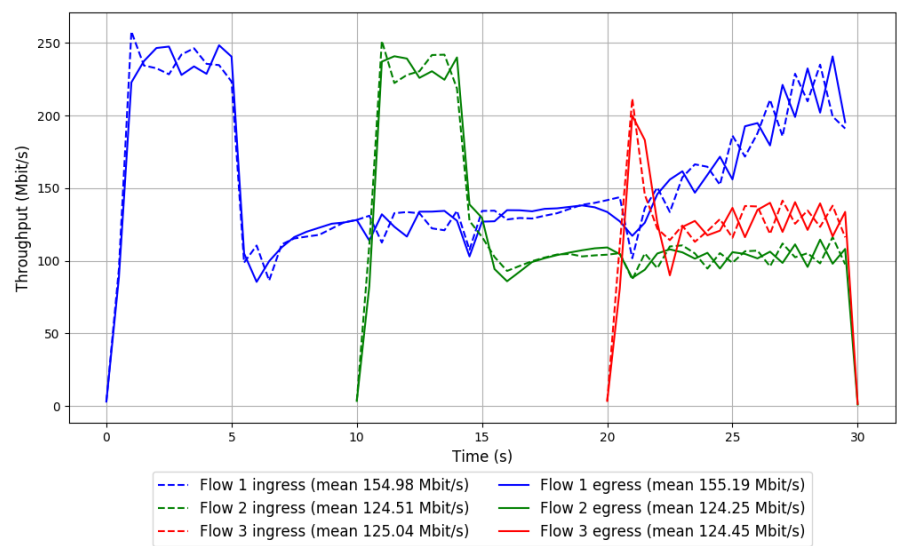
-- Flow 3:

Average throughput: 124.45 Mbit/s

95th percentile per-packet one-way delay: 76.734 ms

Loss rate: 0.39%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-01-09 23:56:03

End at: 2018-01-09 23:56:33

Below is generated by plot.py at 2018-01-10 02:38:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 261.61 Mbit/s

95th percentile per-packet one-way delay: 64.452 ms

Loss rate: 0.17%

-- Flow 1:

Average throughput: 142.37 Mbit/s

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

Loss rate: 0.31%

-- Flow 2:

Average throughput: 119.08 Mbit/s

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

Loss rate: 0.00%

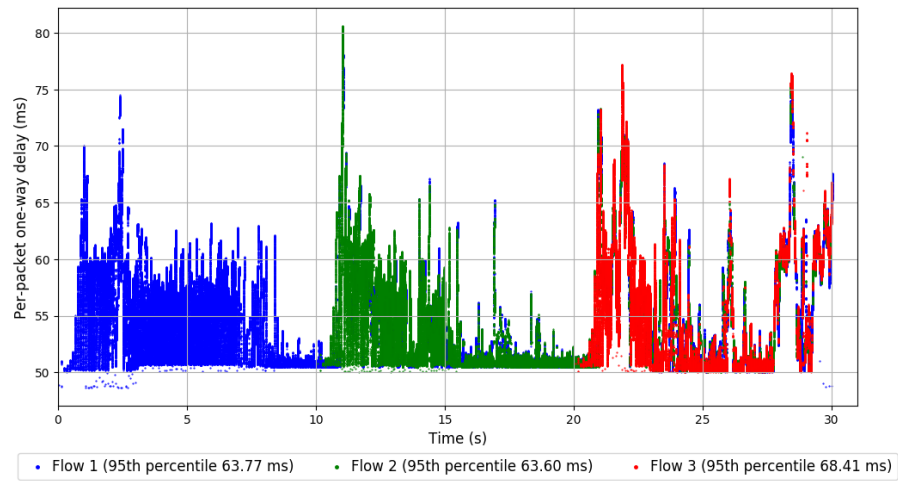
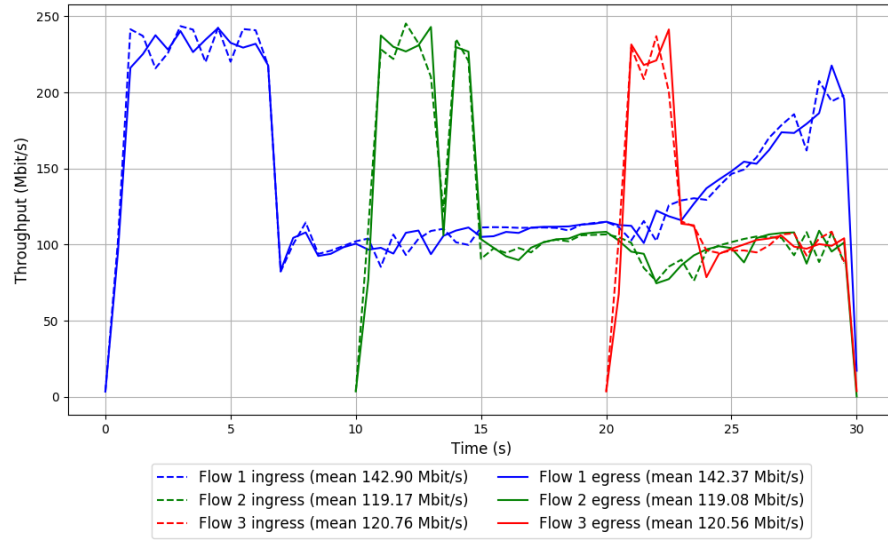
-- Flow 3:

Average throughput: 120.56 Mbit/s

95th percentile per-packet one-way delay: 68.405 ms

Loss rate: 0.00%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-01-10 00:09:31

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

Below is generated by plot.py at 2018-01-10 02:40:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 360.57 Mbit/s

95th percentile per-packet one-way delay: 107.289 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 200.38 Mbit/s

95th percentile per-packet one-way delay: 103.981 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 172.51 Mbit/s

95th percentile per-packet one-way delay: 107.855 ms

Loss rate: 0.00%

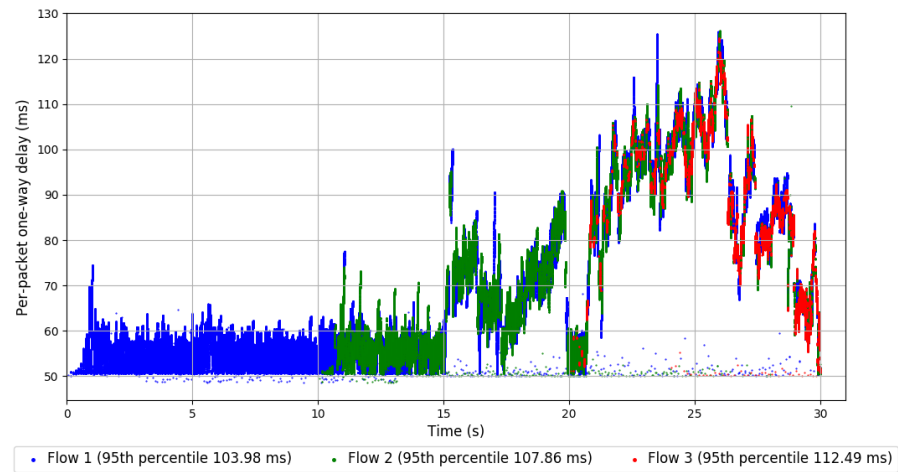
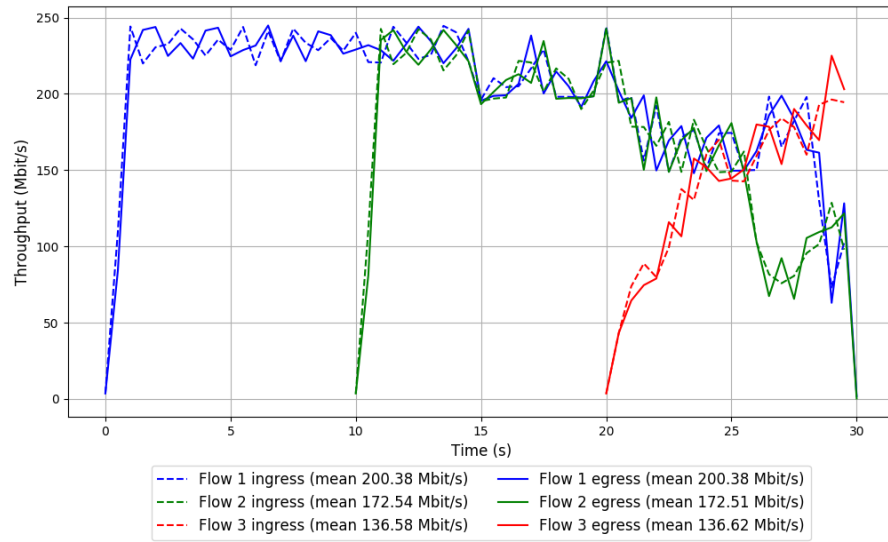
-- Flow 3:

Average throughput: 136.62 Mbit/s

95th percentile per-packet one-way delay: 112.492 ms

Loss rate: 0.00%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-01-10 00:23:18

End at: 2018-01-10 00:23:48

Below is generated by plot.py at 2018-01-10 02:40:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 291.09 Mbit/s

95th percentile per-packet one-way delay: 83.458 ms

Loss rate: 0.17%

-- Flow 1:

Average throughput: 109.65 Mbit/s

95th percentile per-packet one-way delay: 77.603 ms

Loss rate: 0.45%

-- Flow 2:

Average throughput: 195.73 Mbit/s

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

Loss rate: 0.00%

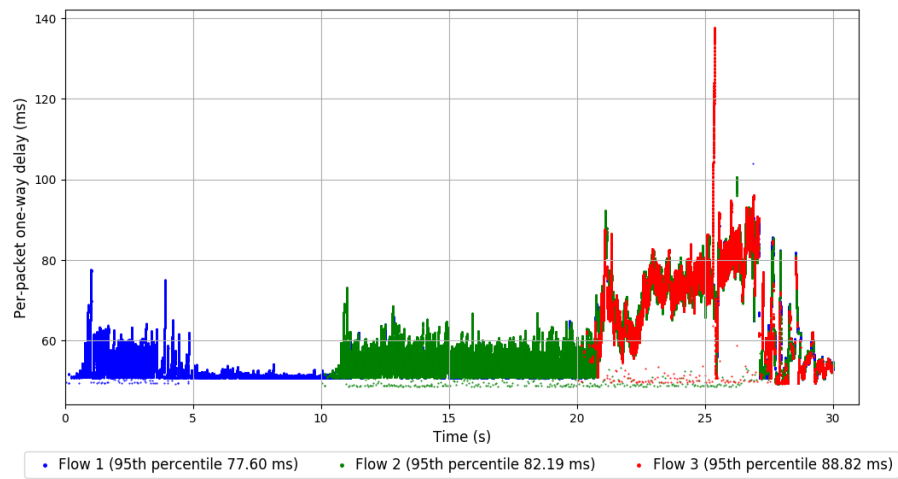
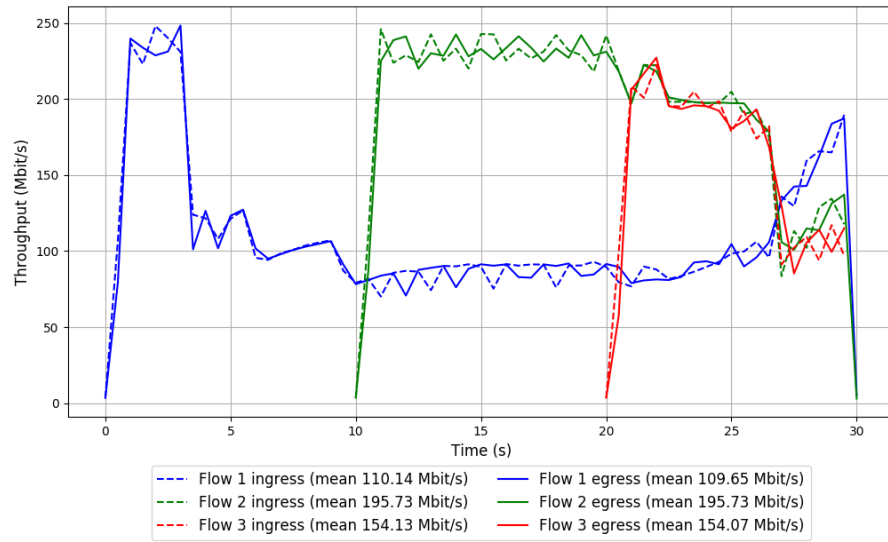
-- Flow 3:

Average throughput: 154.07 Mbit/s

95th percentile per-packet one-way delay: 88.819 ms

Loss rate: 0.00%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-01-10 00:37:01

End at: 2018-01-10 00:37:31

Below is generated by plot.py at 2018-01-10 02:40:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 265.43 Mbit/s

95th percentile per-packet one-way delay: 85.358 ms

Loss rate: 0.33%

-- Flow 1:

Average throughput: 133.76 Mbit/s

95th percentile per-packet one-way delay: 83.997 ms

Loss rate: 0.53%

-- Flow 2:

Average throughput: 138.58 Mbit/s

95th percentile per-packet one-way delay: 84.431 ms

Loss rate: 0.18%

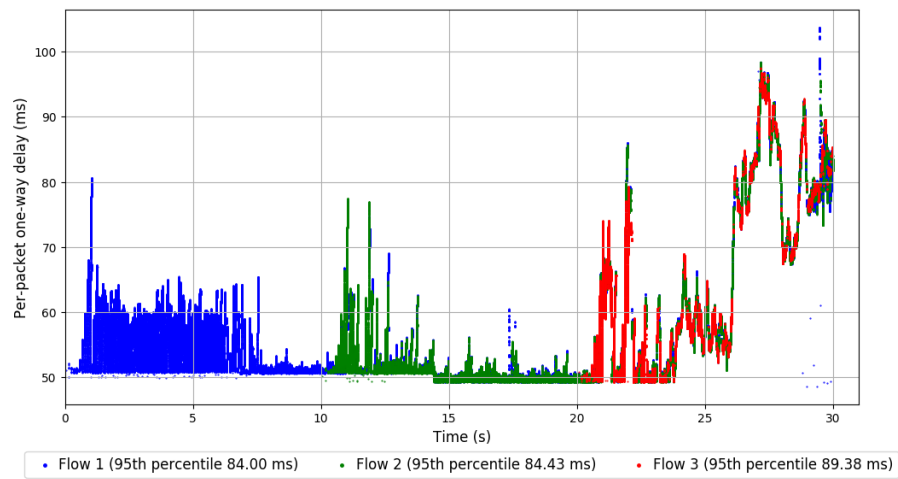
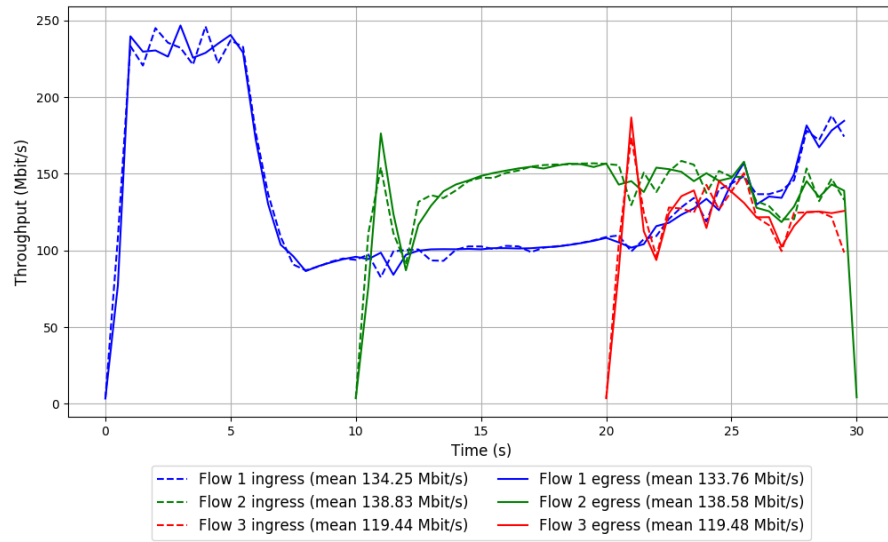
-- Flow 3:

Average throughput: 119.48 Mbit/s

95th percentile per-packet one-way delay: 89.383 ms

Loss rate: 0.01%

Run 10: Report of TCP Cubic — Data Link

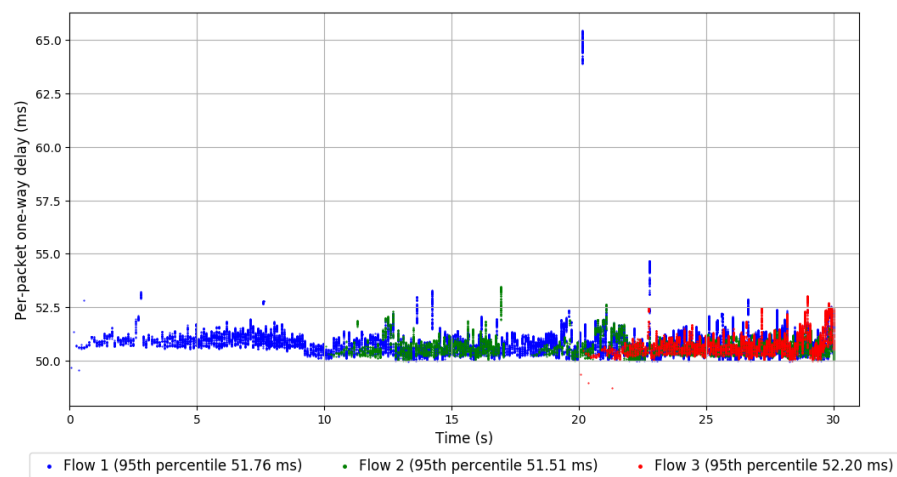
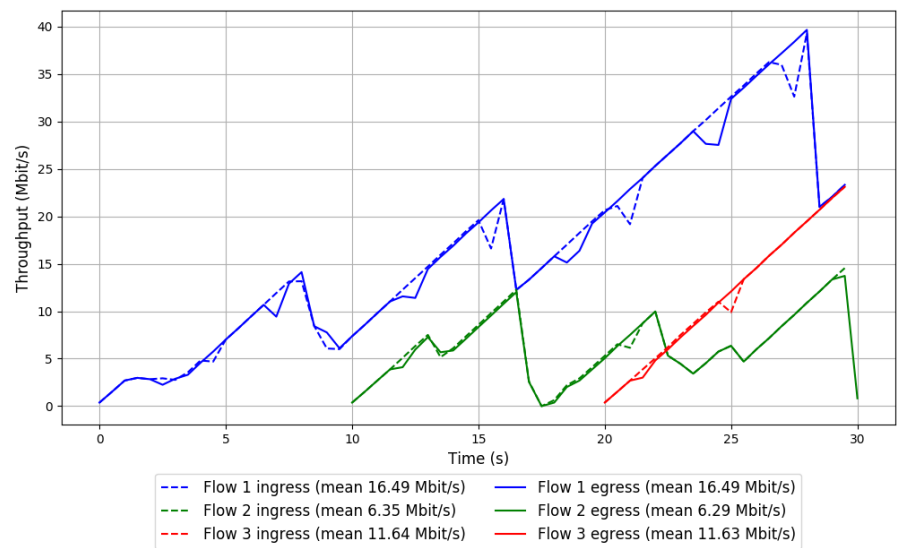


```
Run 1: Statistics of LEDBAT

Start at: 2018-01-09 22:29:27
End at: 2018-01-09 22:29:57

# Below is generated by plot.py at 2018-01-10 02:40:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 24.52 Mbit/s
95th percentile per-packet one-way delay: 51.798 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 16.49 Mbit/s
95th percentile per-packet one-way delay: 51.757 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 6.29 Mbit/s
95th percentile per-packet one-way delay: 51.513 ms
Loss rate: 1.03%
-- Flow 3:
Average throughput: 11.63 Mbit/s
95th percentile per-packet one-way delay: 52.200 ms
Loss rate: 0.00%
```


Run 1: Report of LEDBAT — Data Link

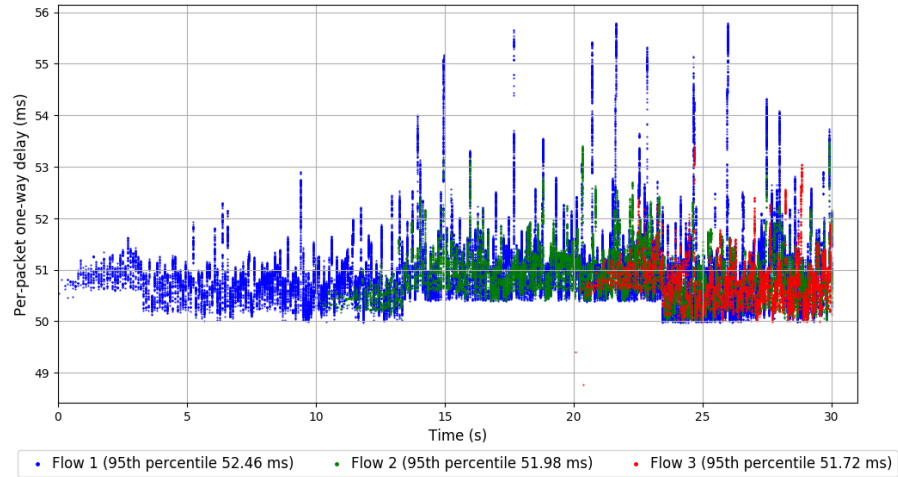
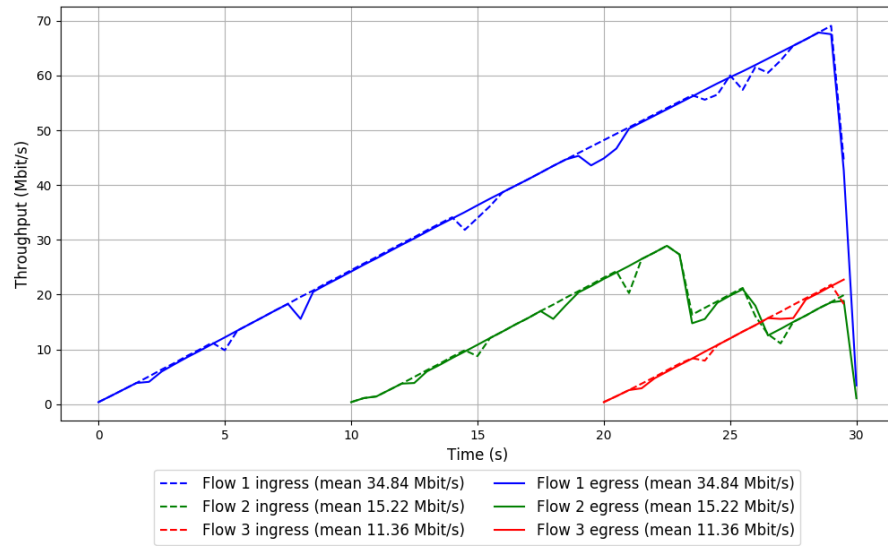


```
Run 2: Statistics of LEDBAT

Start at: 2018-01-09 22:43:02
End at: 2018-01-09 22:43:32

# Below is generated by plot.py at 2018-01-10 02:40:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 48.71 Mbit/s
95th percentile per-packet one-way delay: 52.274 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 34.84 Mbit/s
95th percentile per-packet one-way delay: 52.459 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 15.22 Mbit/s
95th percentile per-packet one-way delay: 51.975 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 11.36 Mbit/s
95th percentile per-packet one-way delay: 51.718 ms
Loss rate: 0.00%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-01-09 22:56:49

End at: 2018-01-09 22:57:19

Below is generated by plot.py at 2018-01-10 02:40:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 10.13 Mbit/s

95th percentile per-packet one-way delay: 51.595 ms

Loss rate: 2.29%

-- Flow 1:

Average throughput: 6.11 Mbit/s

95th percentile per-packet one-way delay: 51.529 ms

Loss rate: 2.09%

-- Flow 2:

Average throughput: 3.86 Mbit/s

95th percentile per-packet one-way delay: 51.663 ms

Loss rate: 2.50%

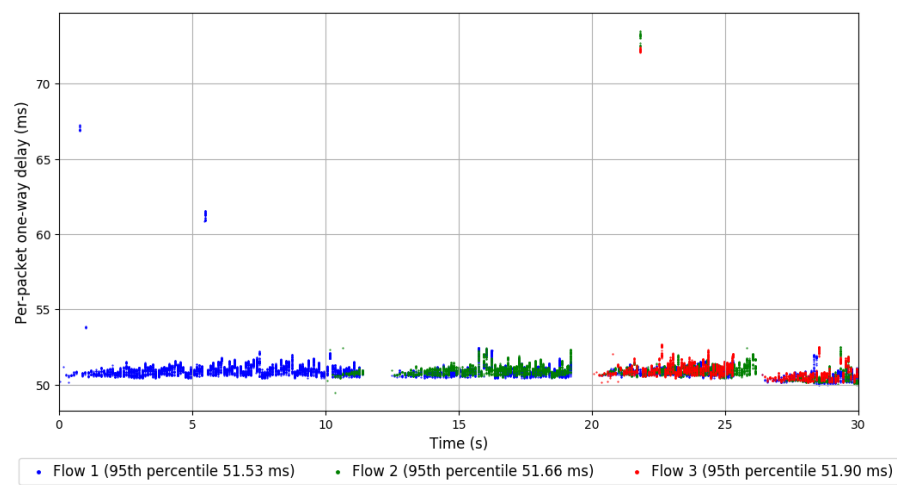
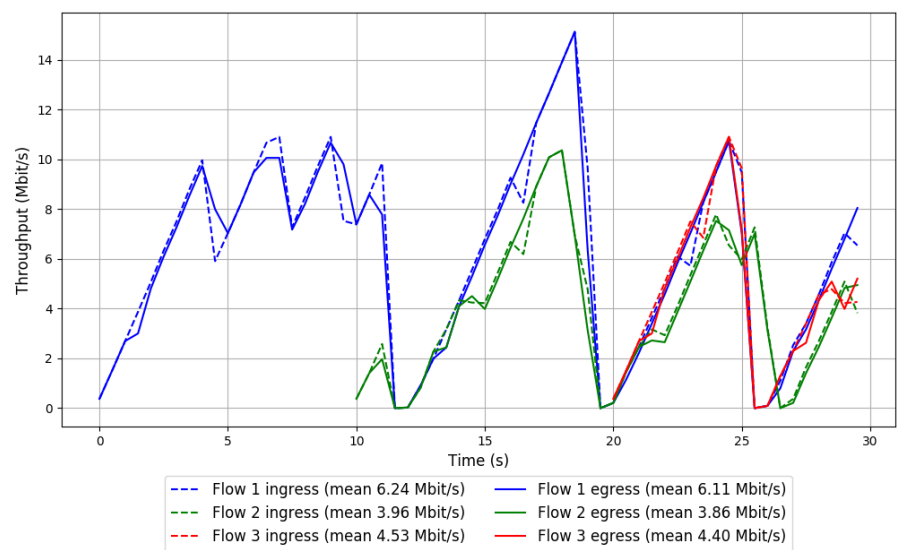
-- Flow 3:

Average throughput: 4.40 Mbit/s

95th percentile per-packet one-way delay: 51.900 ms

Loss rate: 2.78%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-01-09 23:10:35

End at: 2018-01-09 23:11:05

Below is generated by plot.py at 2018-01-10 02:40:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.14 Mbit/s

95th percentile per-packet one-way delay: 51.959 ms

Loss rate: 0.83%

-- Flow 1:

Average throughput: 7.96 Mbit/s

95th percentile per-packet one-way delay: 52.050 ms

Loss rate: 1.16%

-- Flow 2:

Average throughput: 7.05 Mbit/s

95th percentile per-packet one-way delay: 51.857 ms

Loss rate: 0.69%

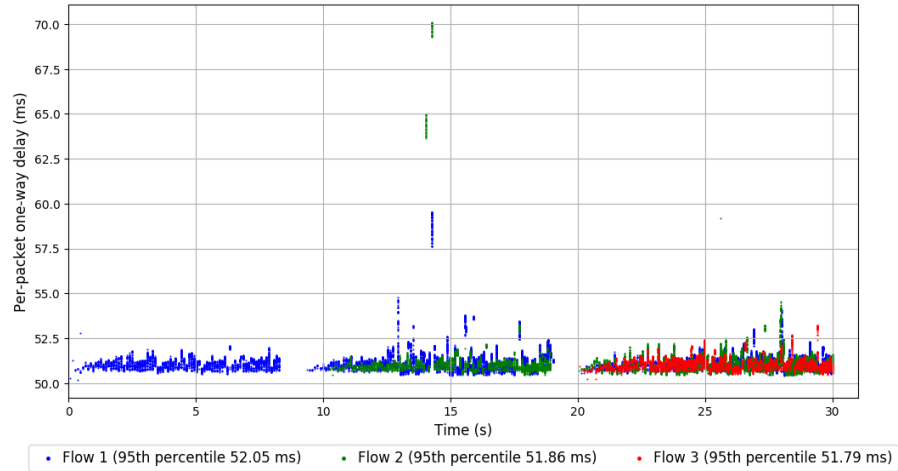
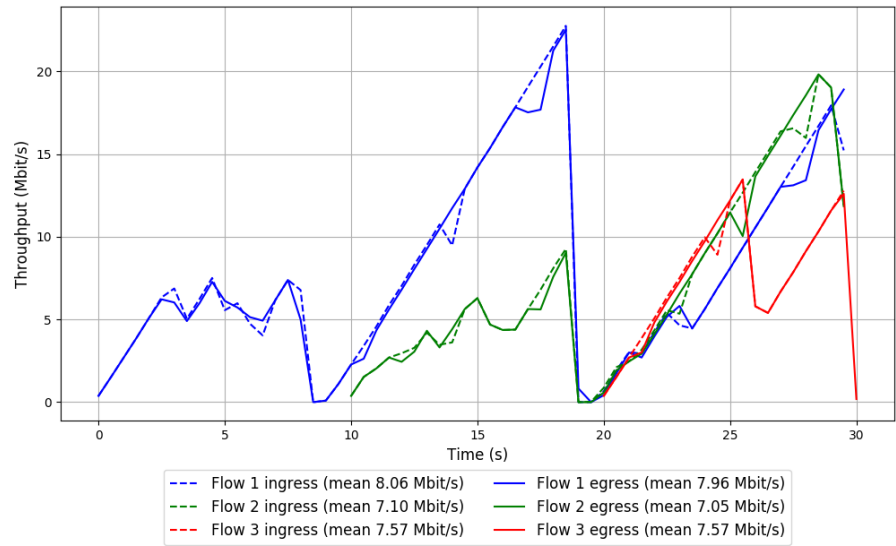
-- Flow 3:

Average throughput: 7.57 Mbit/s

95th percentile per-packet one-way delay: 51.792 ms

Loss rate: 0.00%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-01-09 23:24:26

End at: 2018-01-09 23:24:56

Below is generated by plot.py at 2018-01-10 02:40:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 25.26 Mbit/s

95th percentile per-packet one-way delay: 52.377 ms

Loss rate: 0.16%

-- Flow 1:

Average throughput: 13.84 Mbit/s

95th percentile per-packet one-way delay: 52.428 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 14.59 Mbit/s

95th percentile per-packet one-way delay: 52.500 ms

Loss rate: 0.15%

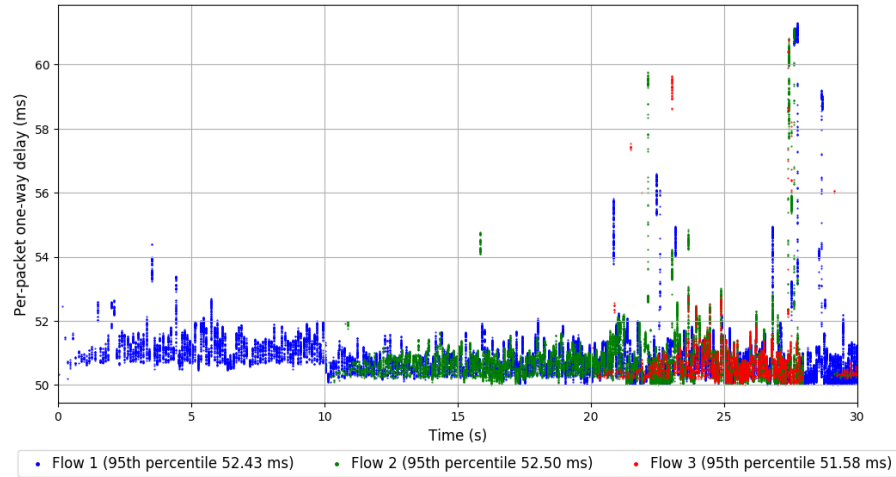
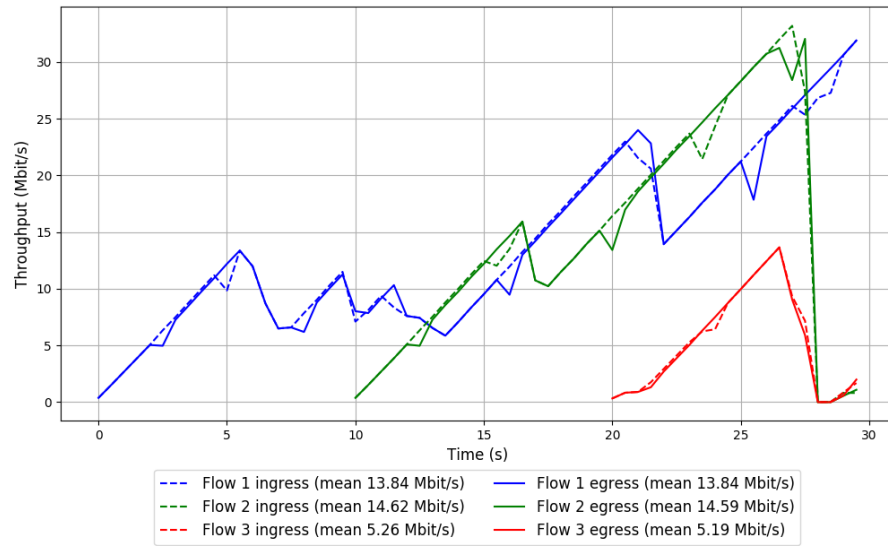
-- Flow 3:

Average throughput: 5.19 Mbit/s

95th percentile per-packet one-way delay: 51.579 ms

Loss rate: 1.49%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-01-09 23:37:55

End at: 2018-01-09 23:38:25

Below is generated by plot.py at 2018-01-10 02:40:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 21.59 Mbit/s

95th percentile per-packet one-way delay: 51.412 ms

Loss rate: 0.30%

-- Flow 1:

Average throughput: 8.75 Mbit/s

95th percentile per-packet one-way delay: 51.513 ms

Loss rate: 0.73%

-- Flow 2:

Average throughput: 15.49 Mbit/s

95th percentile per-packet one-way delay: 51.376 ms

Loss rate: 0.00%

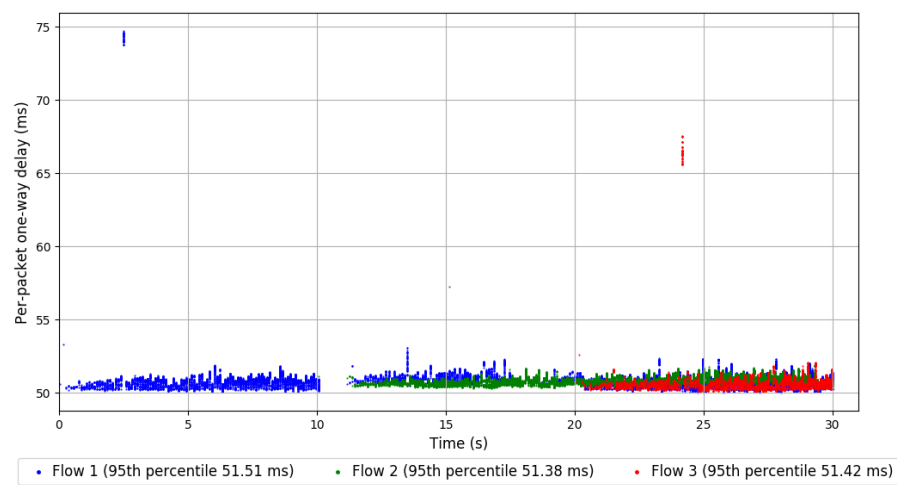
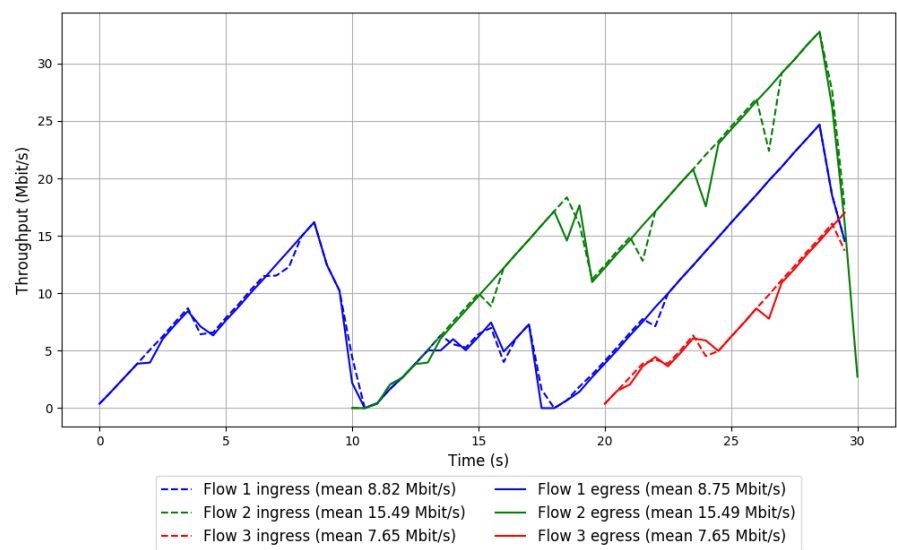
-- Flow 3:

Average throughput: 7.65 Mbit/s

95th percentile per-packet one-way delay: 51.416 ms

Loss rate: 0.00%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-01-09 23:51:38

End at: 2018-01-09 23:52:08

Below is generated by plot.py at 2018-01-10 02:40:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 25.41 Mbit/s

95th percentile per-packet one-way delay: 51.713 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 15.18 Mbit/s

95th percentile per-packet one-way delay: 51.680 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 9.61 Mbit/s

95th percentile per-packet one-way delay: 51.760 ms

Loss rate: 0.00%

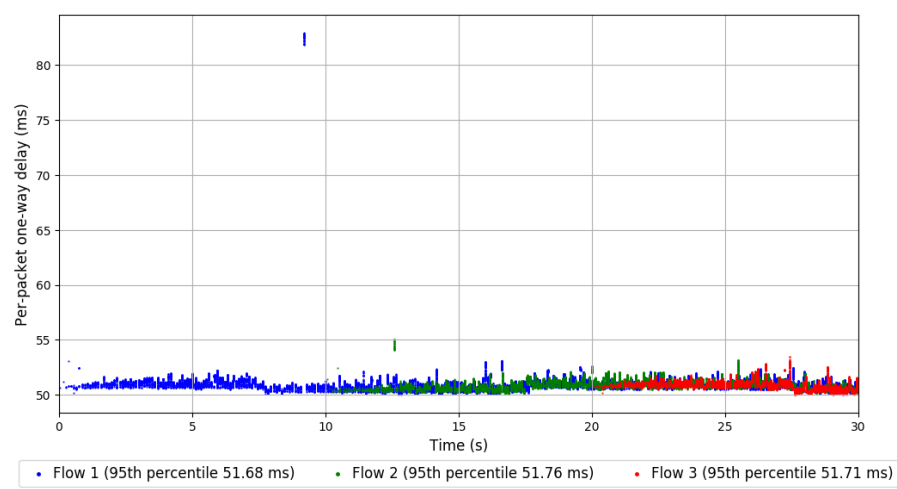
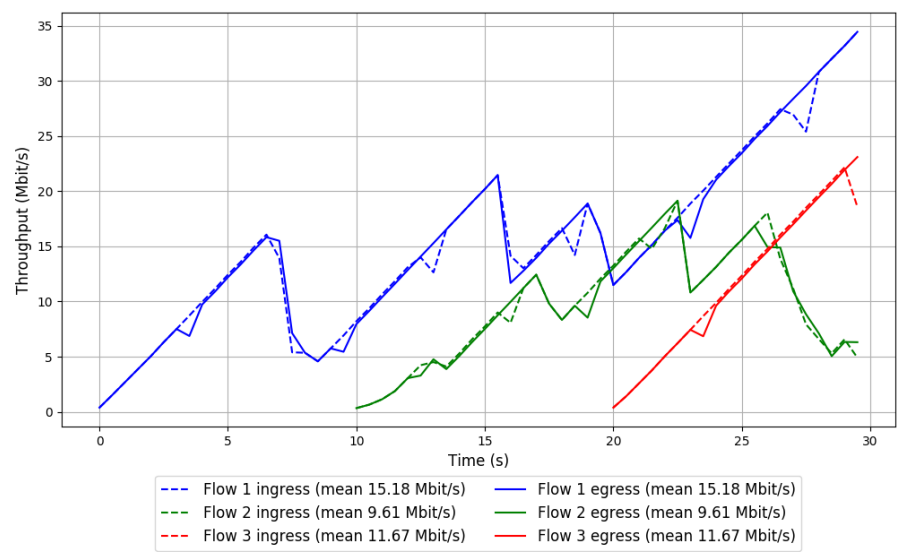
-- Flow 3:

Average throughput: 11.67 Mbit/s

95th percentile per-packet one-way delay: 51.712 ms

Loss rate: 0.00%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-01-10 00:05:12

End at: 2018-01-10 00:05:42

Below is generated by plot.py at 2018-01-10 02:40:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 54.29 Mbit/s

95th percentile per-packet one-way delay: 52.739 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 35.15 Mbit/s

95th percentile per-packet one-way delay: 52.865 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 23.15 Mbit/s

95th percentile per-packet one-way delay: 52.513 ms

Loss rate: 0.00%

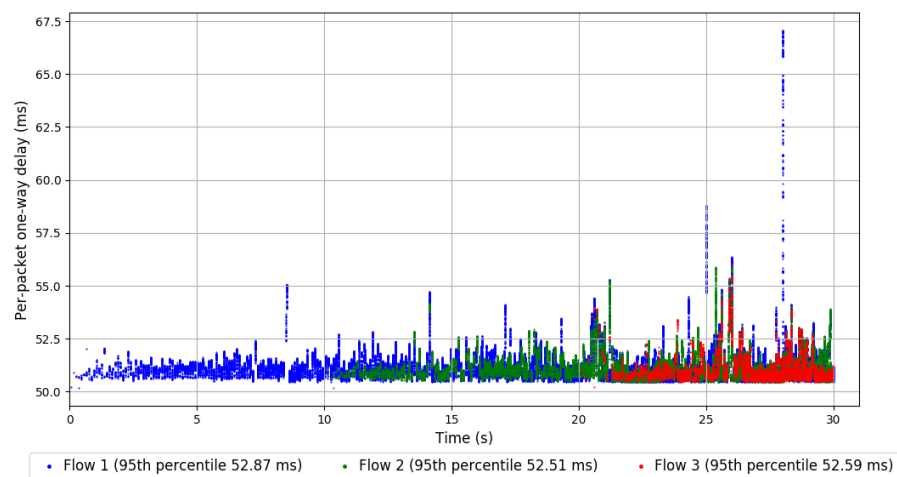
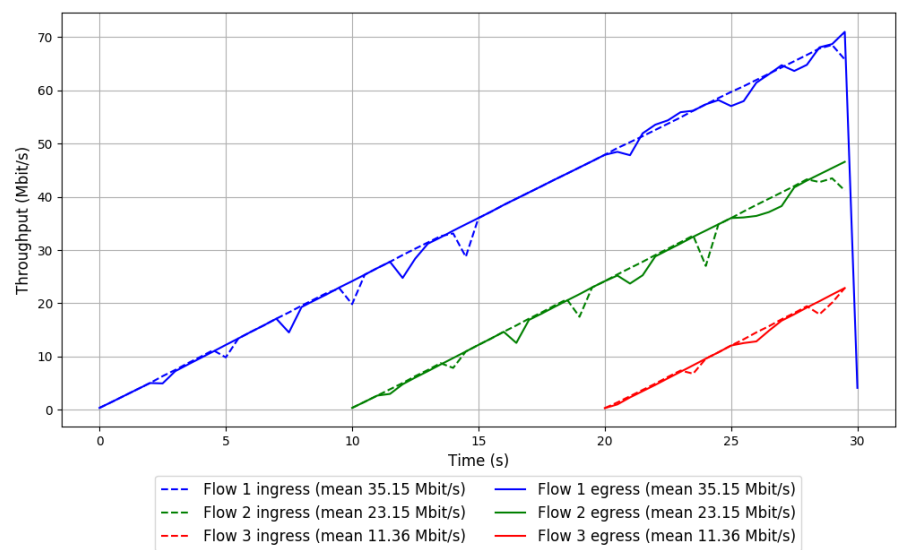
-- Flow 3:

Average throughput: 11.36 Mbit/s

95th percentile per-packet one-way delay: 52.588 ms

Loss rate: 0.00%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-01-10 00:19:01

End at: 2018-01-10 00:19:31

Below is generated by plot.py at 2018-01-10 02:40:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 18.86 Mbit/s

95th percentile per-packet one-way delay: 51.417 ms

Loss rate: 0.54%

-- Flow 1:

Average throughput: 7.10 Mbit/s

95th percentile per-packet one-way delay: 51.406 ms

Loss rate: 1.42%

-- Flow 2:

Average throughput: 14.78 Mbit/s

95th percentile per-packet one-way delay: 51.172 ms

Loss rate: 0.00%

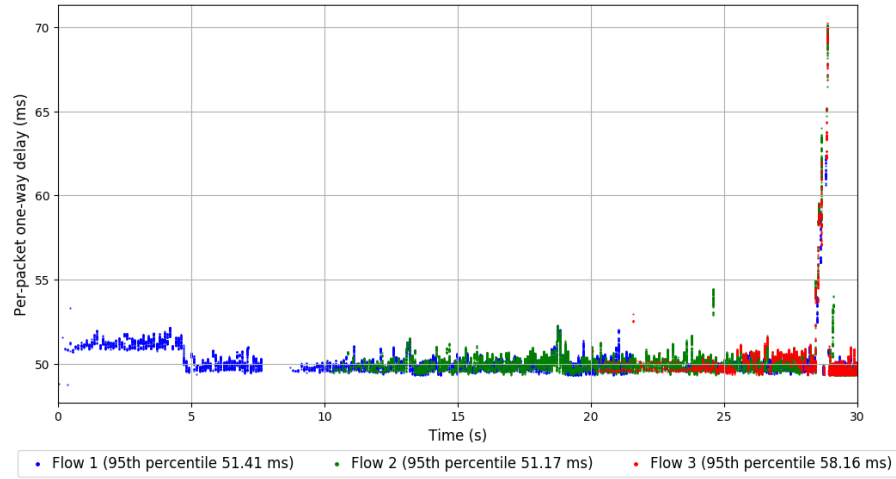
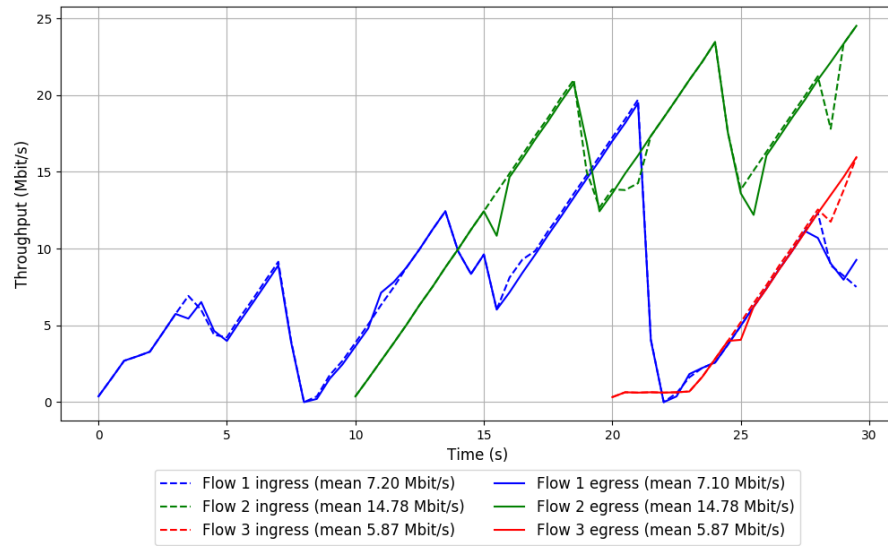
-- Flow 3:

Average throughput: 5.87 Mbit/s

95th percentile per-packet one-way delay: 58.161 ms

Loss rate: 0.00%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-01-10 00:32:50

End at: 2018-01-10 00:33:20

Below is generated by plot.py at 2018-01-10 02:40:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 21.10 Mbit/s

95th percentile per-packet one-way delay: 56.066 ms

Loss rate: 0.86%

-- Flow 1:

Average throughput: 10.05 Mbit/s

95th percentile per-packet one-way delay: 53.262 ms

Loss rate: 0.82%

-- Flow 2:

Average throughput: 11.41 Mbit/s

95th percentile per-packet one-way delay: 63.901 ms

Loss rate: 1.29%

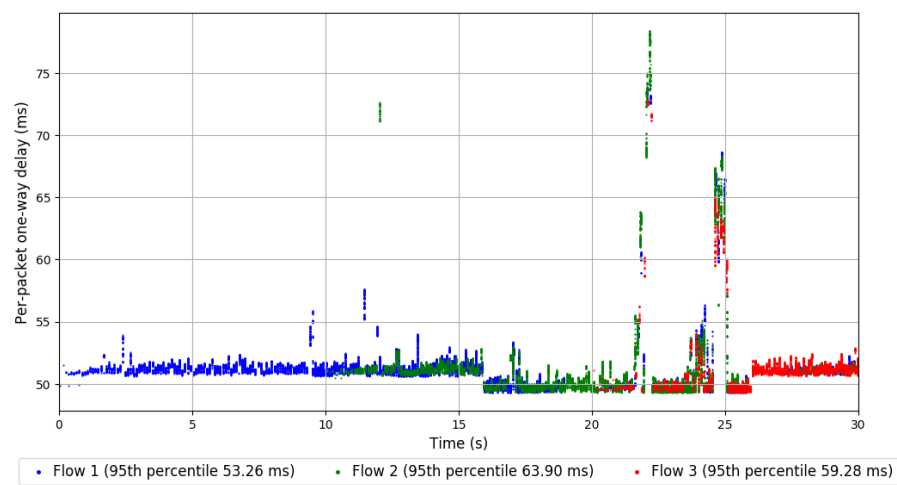
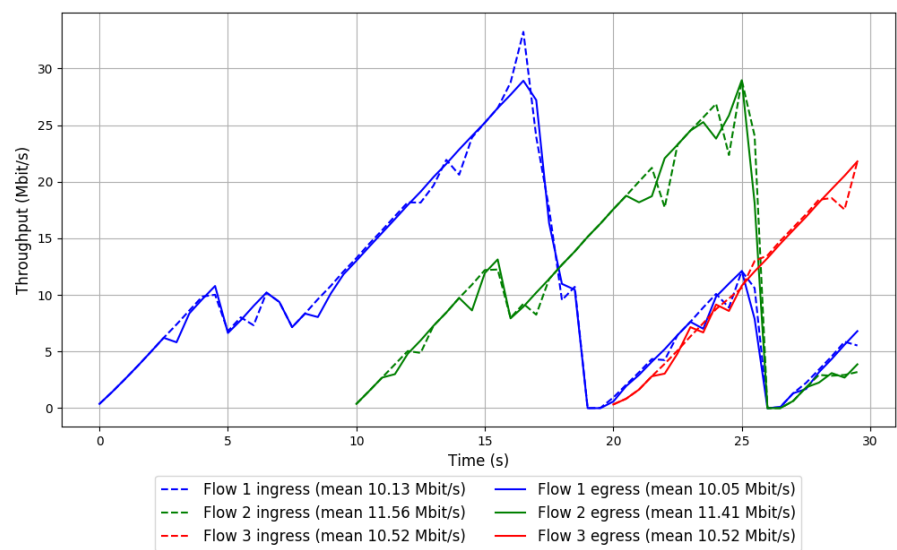
-- Flow 3:

Average throughput: 10.52 Mbit/s

95th percentile per-packet one-way delay: 59.283 ms

Loss rate: 0.00%

Run 10: Report of LEDBAT — Data Link

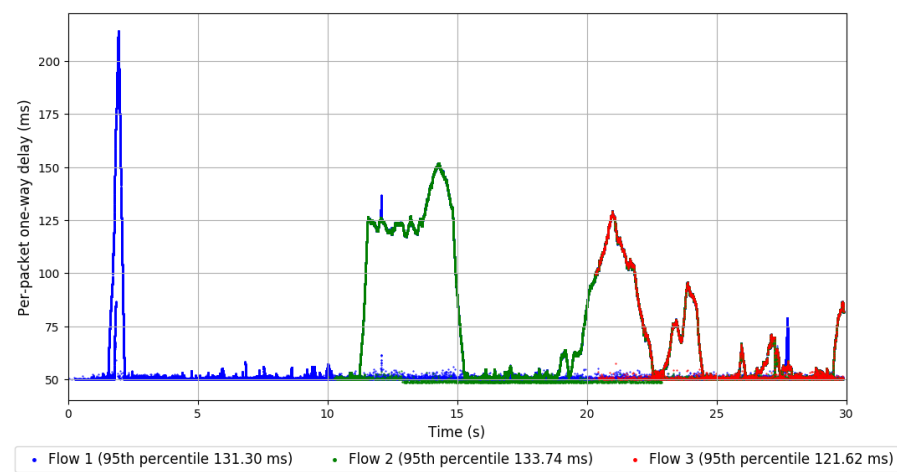
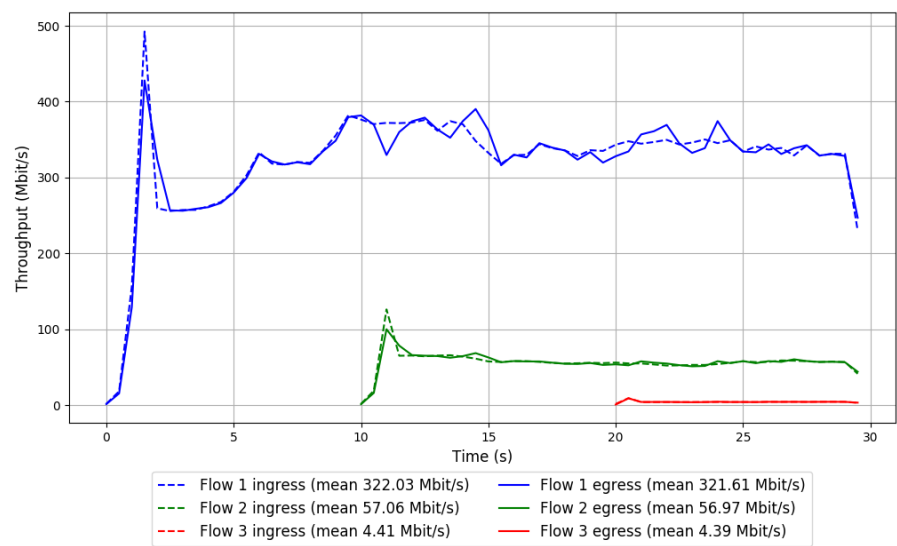


```
Run 1: Statistics of PCC

Start at: 2018-01-09 22:35:12
End at: 2018-01-09 22:35:42

# Below is generated by plot.py at 2018-01-10 02:42:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 360.93 Mbit/s
95th percentile per-packet one-way delay: 131.394 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 321.61 Mbit/s
95th percentile per-packet one-way delay: 131.300 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 56.97 Mbit/s
95th percentile per-packet one-way delay: 133.737 ms
Loss rate: 0.16%
-- Flow 3:
Average throughput: 4.39 Mbit/s
95th percentile per-packet one-way delay: 121.619 ms
Loss rate: 0.30%
```

Run 1: Report of PCC — Data Link

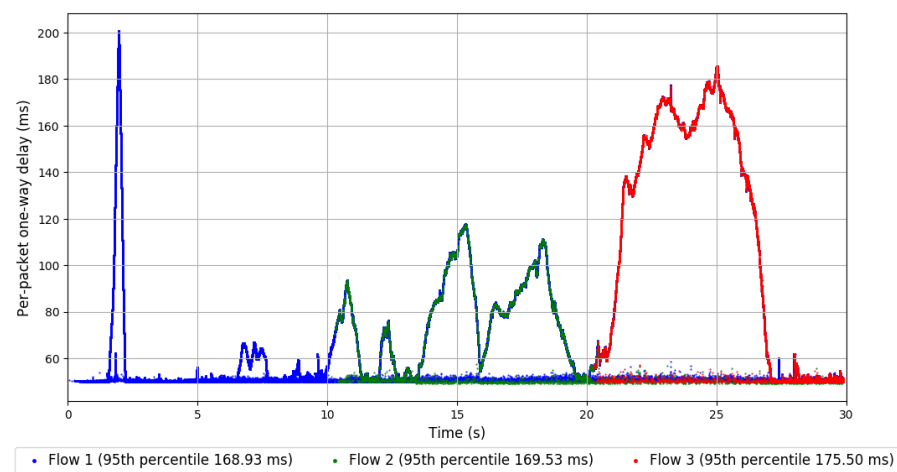
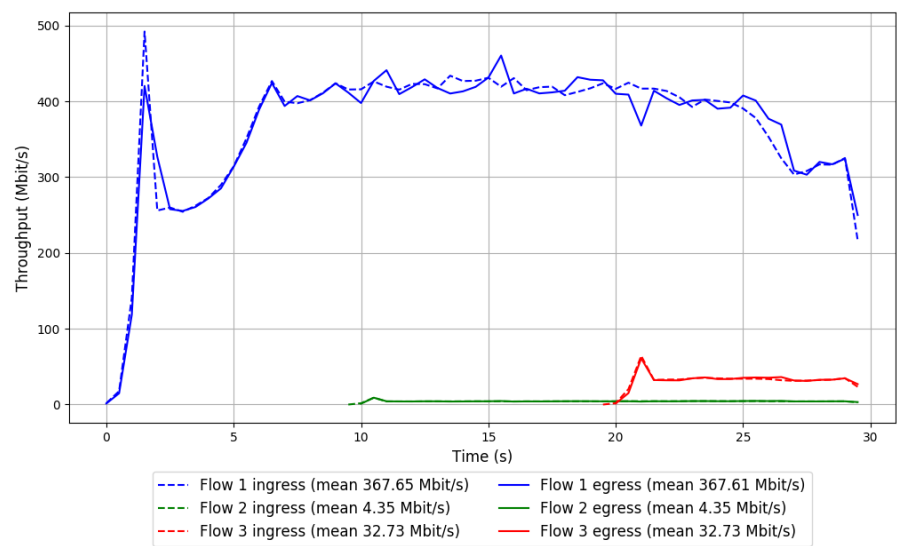


```
Run 2: Statistics of PCC

Start at: 2018-01-09 22:49:01
End at: 2018-01-09 22:49:31

# Below is generated by plot.py at 2018-01-10 02:43:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 381.28 Mbit/s
95th percentile per-packet one-way delay: 169.463 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 367.61 Mbit/s
95th percentile per-packet one-way delay: 168.930 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 4.35 Mbit/s
95th percentile per-packet one-way delay: 169.531 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 32.73 Mbit/s
95th percentile per-packet one-way delay: 175.500 ms
Loss rate: 0.00%
```

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2018-01-09 23:02:41

End at: 2018-01-09 23:03:11

Below is generated by plot.py at 2018-01-10 02:43:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 370.91 Mbit/s

95th percentile per-packet one-way delay: 103.440 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 318.67 Mbit/s

95th percentile per-packet one-way delay: 102.868 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 62.66 Mbit/s

95th percentile per-packet one-way delay: 102.499 ms

Loss rate: 0.06%

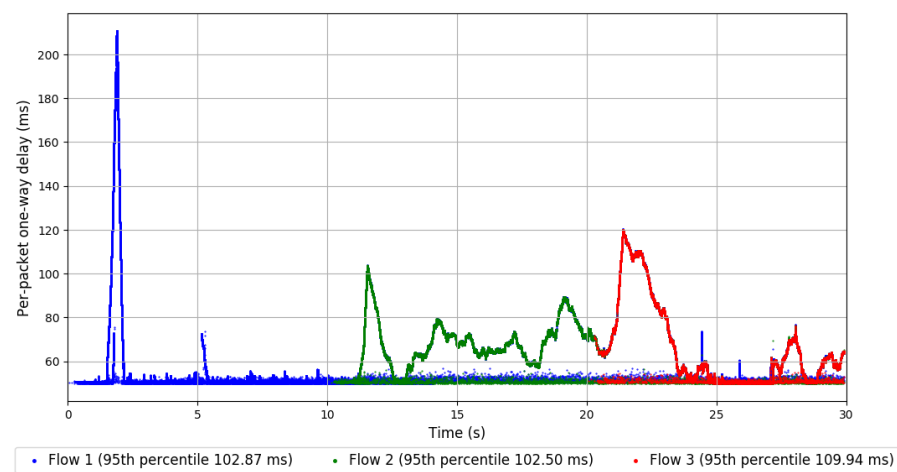
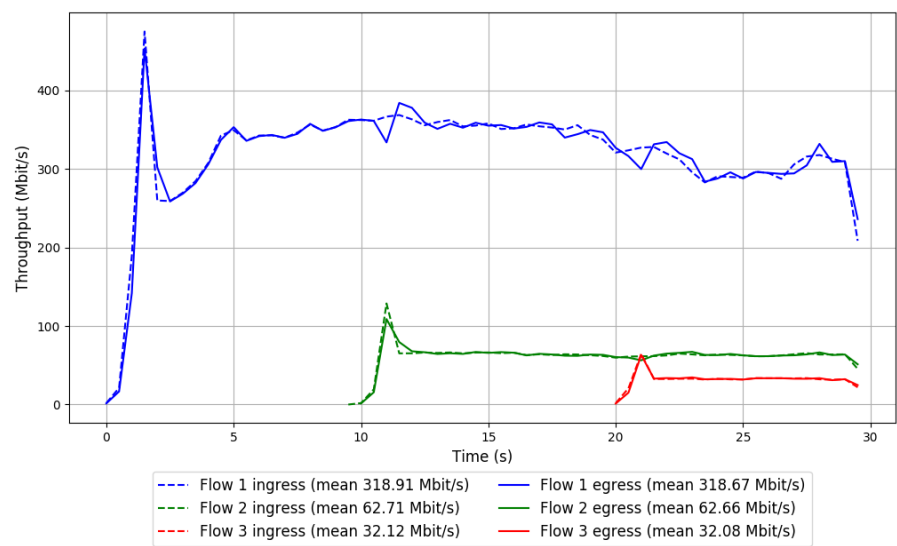
-- Flow 3:

Average throughput: 32.08 Mbit/s

95th percentile per-packet one-way delay: 109.941 ms

Loss rate: 0.12%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2018-01-09 23:16:29

End at: 2018-01-09 23:16:59

Below is generated by plot.py at 2018-01-10 02:43:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 360.00 Mbit/s

95th percentile per-packet one-way delay: 171.190 ms

Loss rate: 0.20%

-- Flow 1:

Average throughput: 308.85 Mbit/s

95th percentile per-packet one-way delay: 170.135 ms

Loss rate: 0.16%

-- Flow 2:

Average throughput: 16.60 Mbit/s

95th percentile per-packet one-way delay: 171.154 ms

Loss rate: 0.23%

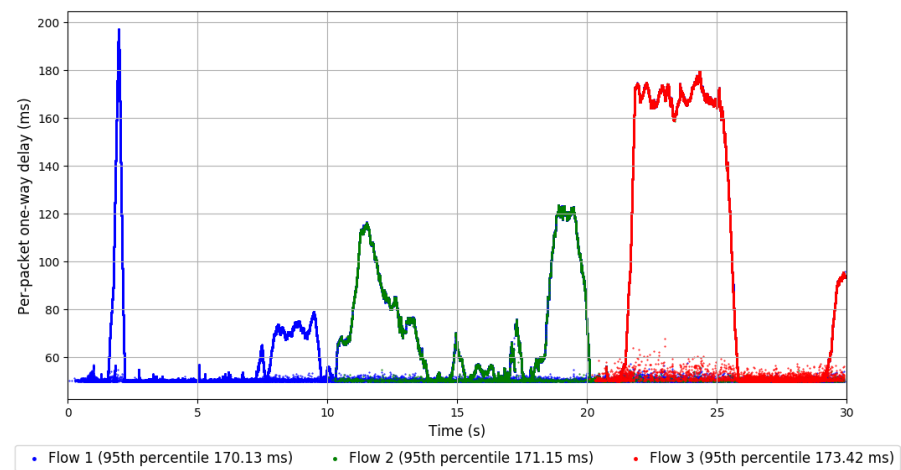
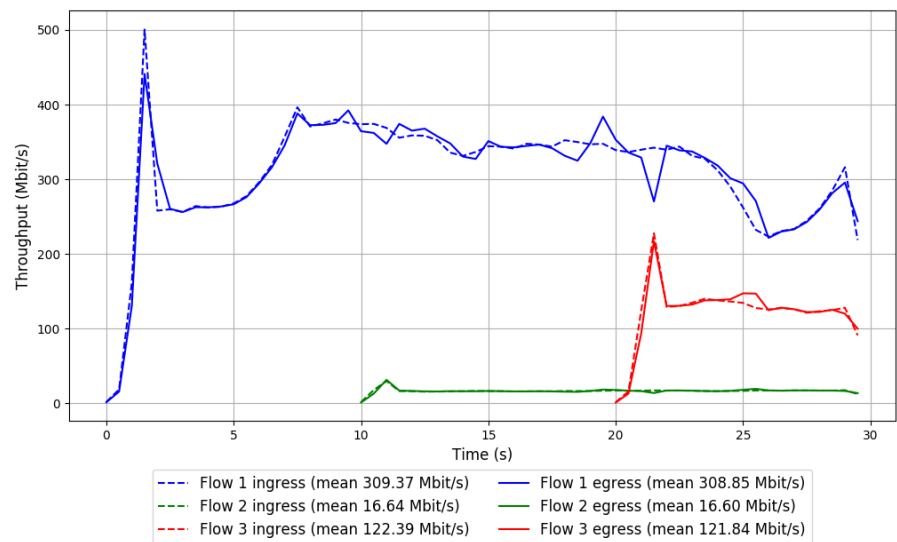
-- Flow 3:

Average throughput: 121.84 Mbit/s

95th percentile per-packet one-way delay: 173.423 ms

Loss rate: 0.45%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2018-01-09 23:30:18

End at: 2018-01-09 23:30:48

Below is generated by plot.py at 2018-01-10 02:45:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 362.69 Mbit/s

95th percentile per-packet one-way delay: 119.272 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 326.52 Mbit/s

95th percentile per-packet one-way delay: 119.870 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 37.27 Mbit/s

95th percentile per-packet one-way delay: 115.222 ms

Loss rate: 0.02%

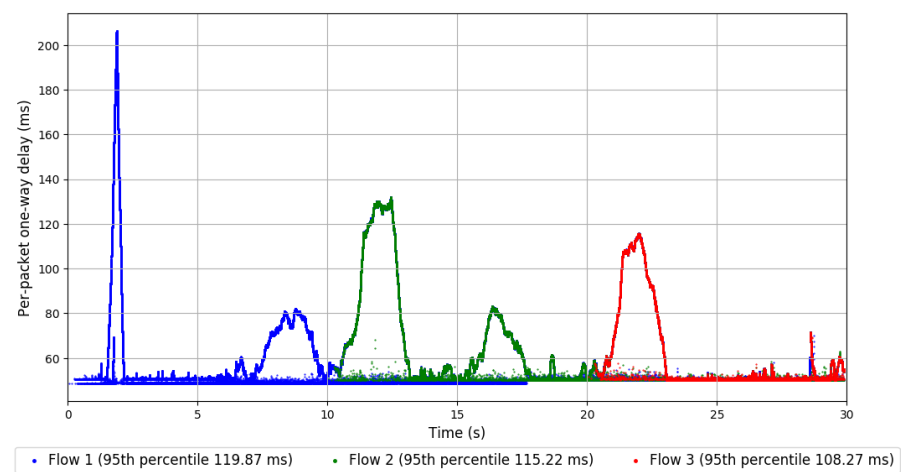
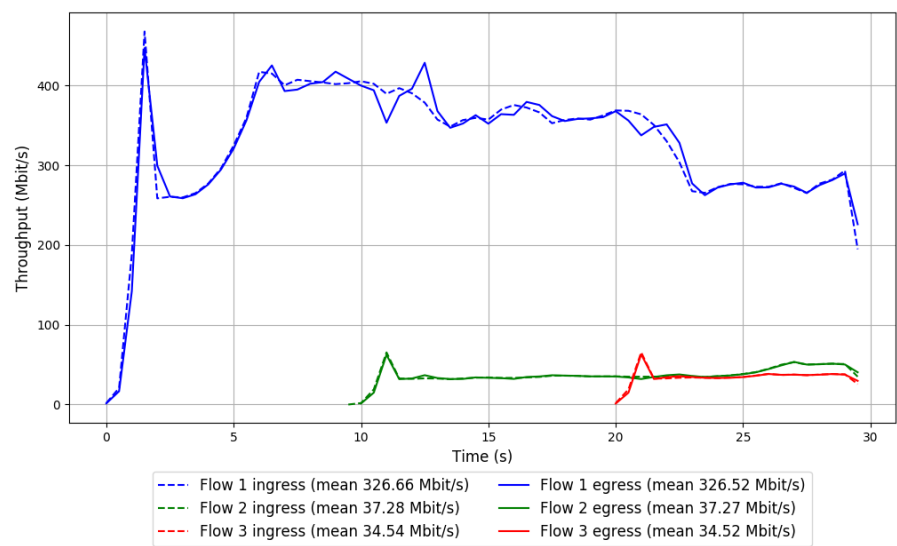
-- Flow 3:

Average throughput: 34.52 Mbit/s

95th percentile per-packet one-way delay: 108.269 ms

Loss rate: 0.04%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2018-01-09 23:43:48

End at: 2018-01-09 23:44:18

Below is generated by plot.py at 2018-01-10 02:46:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 397.37 Mbit/s

95th percentile per-packet one-way delay: 118.504 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 354.62 Mbit/s

95th percentile per-packet one-way delay: 117.604 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 34.38 Mbit/s

95th percentile per-packet one-way delay: 118.556 ms

Loss rate: 0.05%

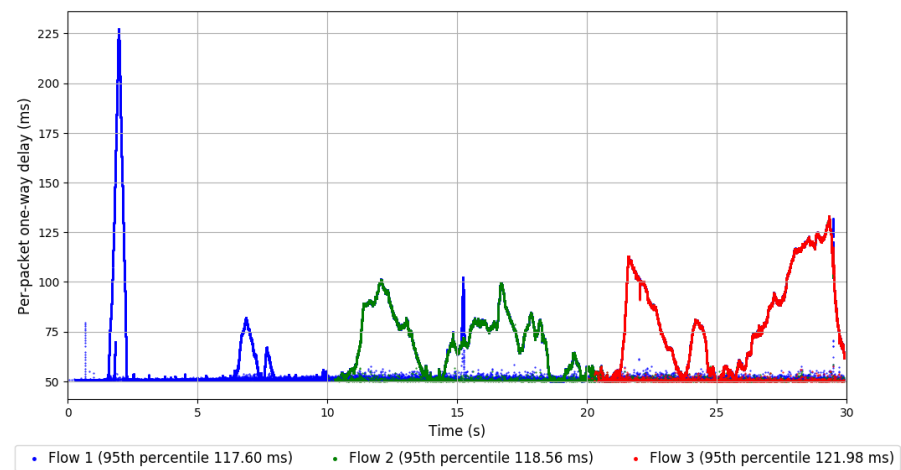
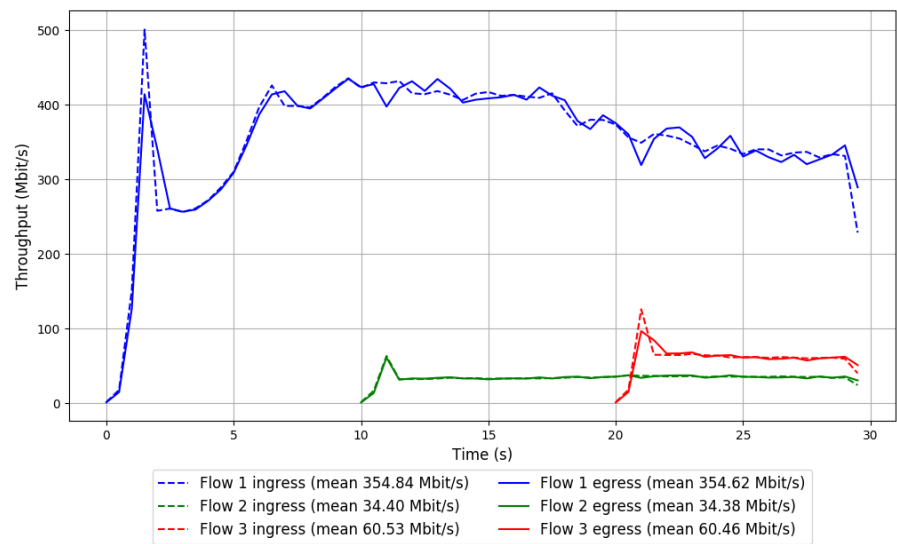
-- Flow 3:

Average throughput: 60.46 Mbit/s

95th percentile per-packet one-way delay: 121.978 ms

Loss rate: 0.08%

Run 6: Report of PCC — Data Link

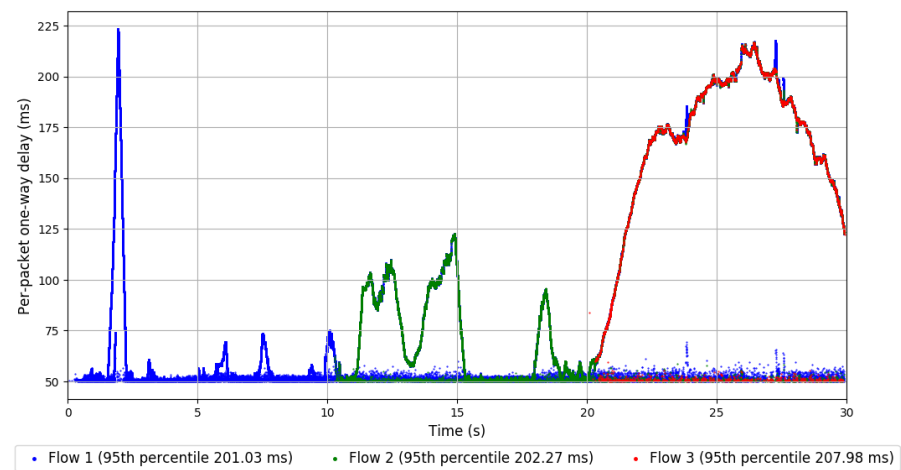
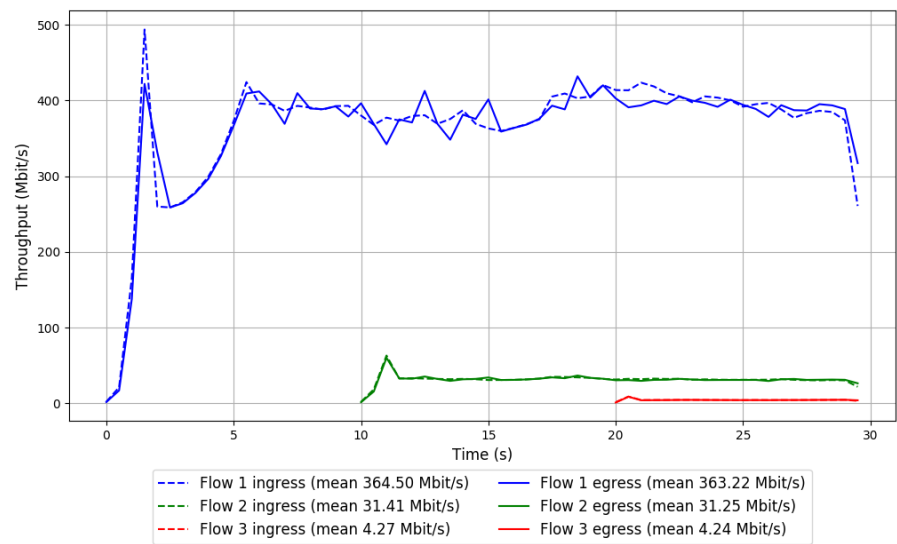


```
Run 7: Statistics of PCC

Start at: 2018-01-09 23:57:36
End at: 2018-01-09 23:58:06

# Below is generated by plot.py at 2018-01-10 02:46:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 385.37 Mbit/s
95th percentile per-packet one-way delay: 201.190 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 363.22 Mbit/s
95th percentile per-packet one-way delay: 201.034 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 31.25 Mbit/s
95th percentile per-packet one-way delay: 202.274 ms
Loss rate: 0.48%
-- Flow 3:
Average throughput: 4.24 Mbit/s
95th percentile per-packet one-way delay: 207.982 ms
Loss rate: 0.83%
```


Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2018-01-10 00:11:11

End at: 2018-01-10 00:11:41

Below is generated by plot.py at 2018-01-10 02:47:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 374.12 Mbit/s

95th percentile per-packet one-way delay: 155.668 ms

Loss rate: 0.17%

-- Flow 1:

Average throughput: 339.67 Mbit/s

95th percentile per-packet one-way delay: 156.600 ms

Loss rate: 0.18%

-- Flow 2:

Average throughput: 35.88 Mbit/s

95th percentile per-packet one-way delay: 155.204 ms

Loss rate: 0.04%

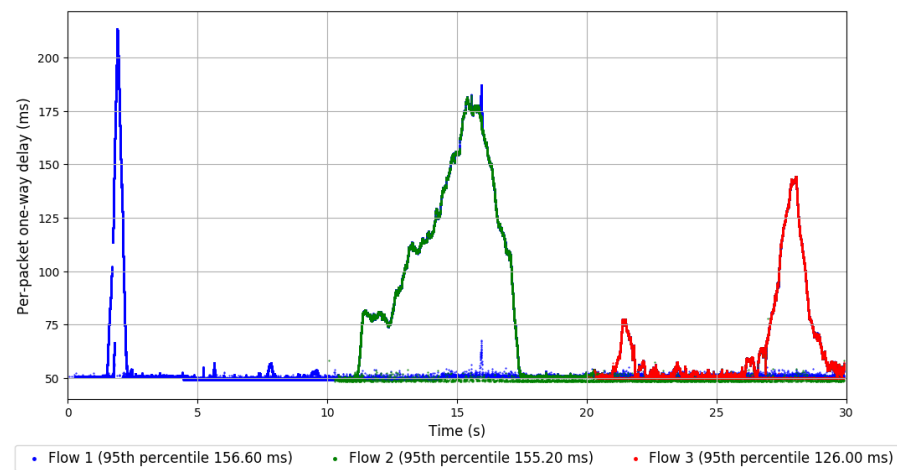
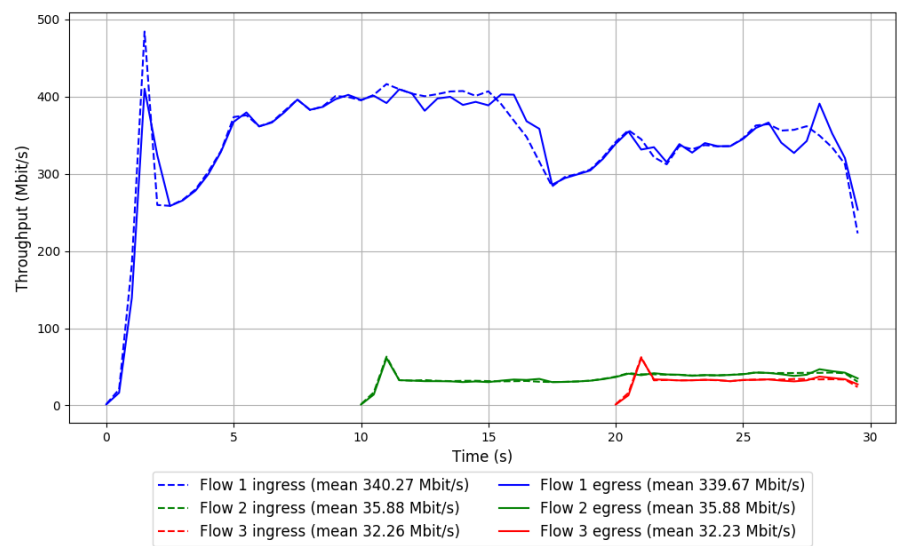
-- Flow 3:

Average throughput: 32.23 Mbit/s

95th percentile per-packet one-way delay: 126.003 ms

Loss rate: 0.06%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2018-01-10 00:24:54

End at: 2018-01-10 00:25:24

Below is generated by plot.py at 2018-01-10 02:49:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 383.86 Mbit/s

95th percentile per-packet one-way delay: 210.133 ms

Loss rate: 0.74%

-- Flow 1:

Average throughput: 306.99 Mbit/s

95th percentile per-packet one-way delay: 209.833 ms

Loss rate: 0.70%

-- Flow 2:

Average throughput: 113.88 Mbit/s

95th percentile per-packet one-way delay: 211.090 ms

Loss rate: 0.90%

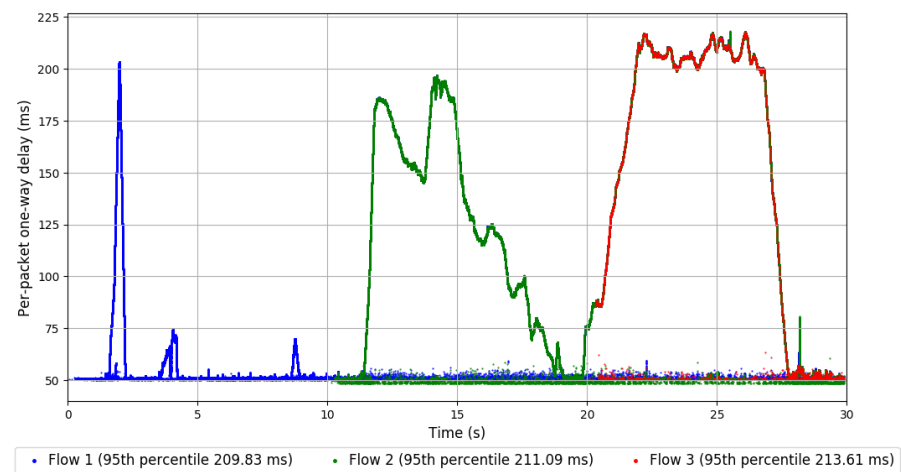
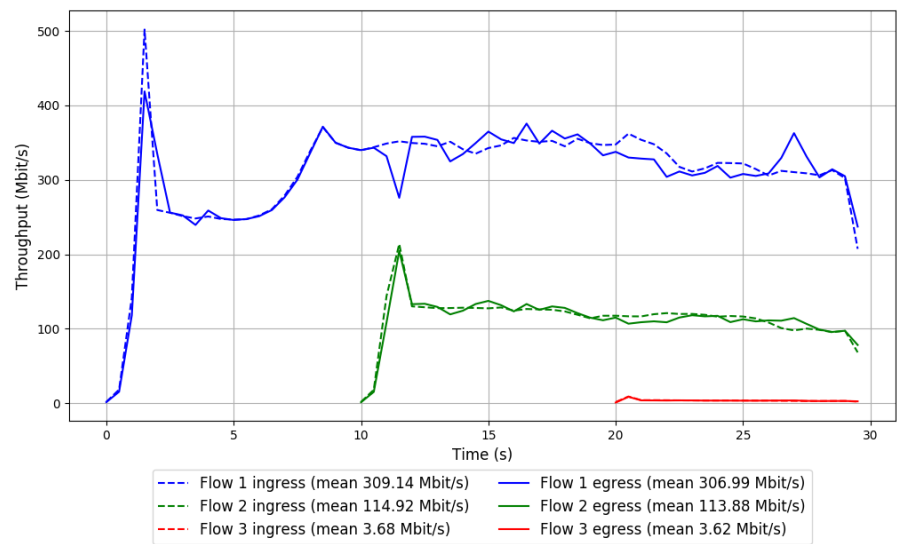
-- Flow 3:

Average throughput: 3.62 Mbit/s

95th percentile per-packet one-way delay: 213.614 ms

Loss rate: 1.72%

Run 9: Report of PCC — Data Link

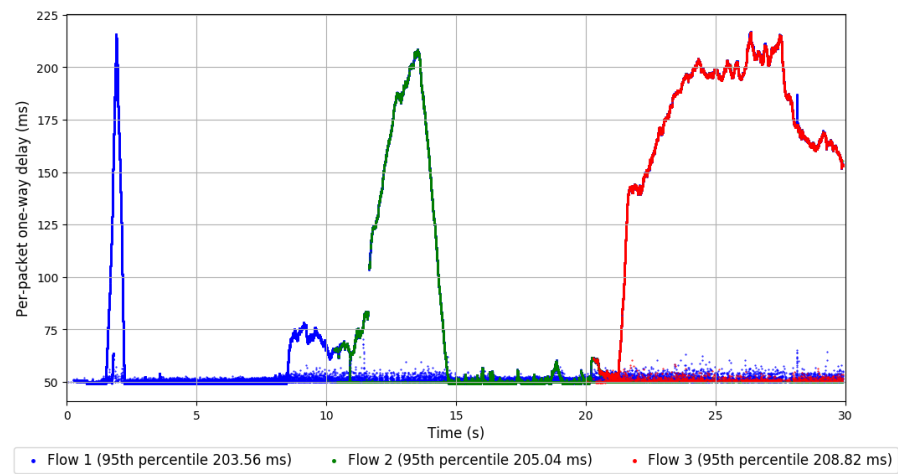
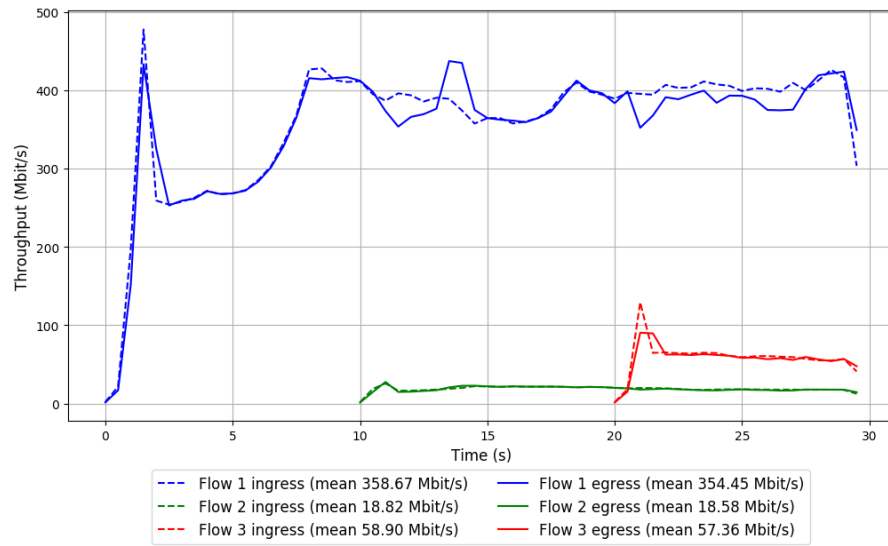


```
Run 10: Statistics of PCC

Start at: 2018-01-10 00:38:35
End at: 2018-01-10 00:39:05

# Below is generated by plot.py at 2018-01-10 02:49:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 385.69 Mbit/s
95th percentile per-packet one-way delay: 204.425 ms
Loss rate: 1.26%
-- Flow 1:
Average throughput: 354.45 Mbit/s
95th percentile per-packet one-way delay: 203.564 ms
Loss rate: 1.18%
-- Flow 2:
Average throughput: 18.58 Mbit/s
95th percentile per-packet one-way delay: 205.044 ms
Loss rate: 1.30%
-- Flow 3:
Average throughput: 57.36 Mbit/s
95th percentile per-packet one-way delay: 208.819 ms
Loss rate: 2.63%
```

Run 10: Report of PCC — Data Link

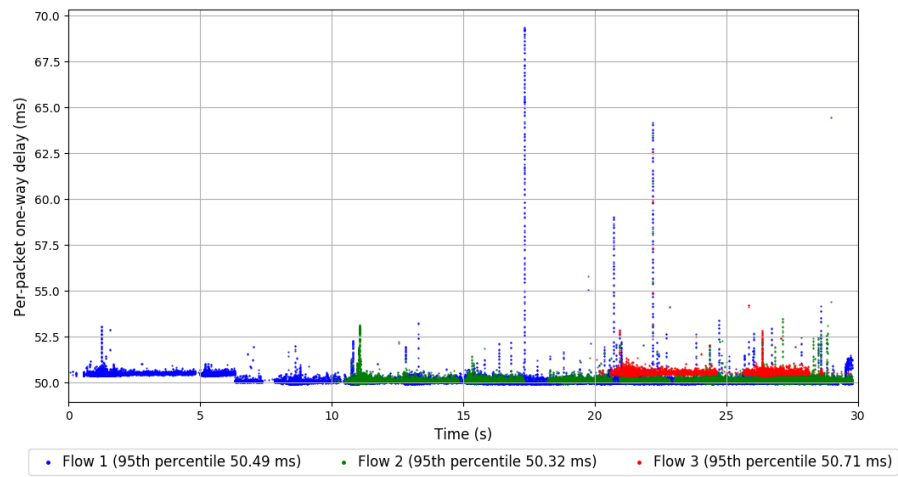
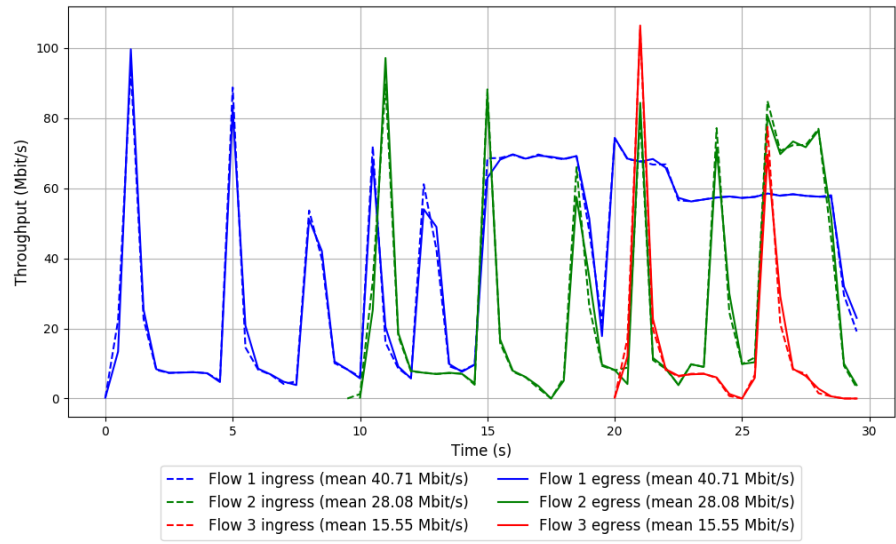


```
Run 1: Statistics of QUIC Cubic

Start at: 2018-01-09 22:25:29
End at: 2018-01-09 22:25:59

# Below is generated by plot.py at 2018-01-10 02:49:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 64.41 Mbit/s
95th percentile per-packet one-way delay: 50.544 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 40.71 Mbit/s
95th percentile per-packet one-way delay: 50.487 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 28.08 Mbit/s
95th percentile per-packet one-way delay: 50.316 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 15.55 Mbit/s
95th percentile per-packet one-way delay: 50.714 ms
Loss rate: 0.00%
```


Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-01-09 22:39:06

End at: 2018-01-09 22:39:36

Below is generated by plot.py at 2018-01-10 02:49:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 65.13 Mbit/s

95th percentile per-packet one-way delay: 50.553 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 41.53 Mbit/s

95th percentile per-packet one-way delay: 50.575 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 25.12 Mbit/s

95th percentile per-packet one-way delay: 50.186 ms

Loss rate: 0.00%

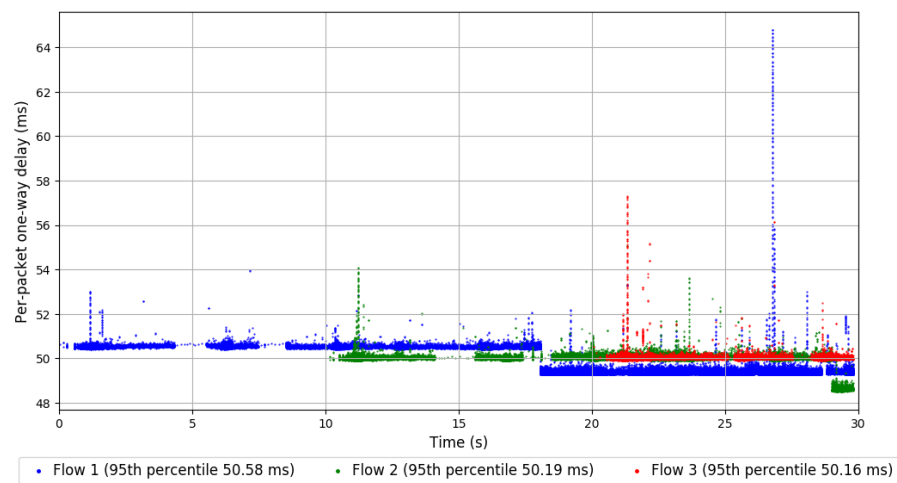
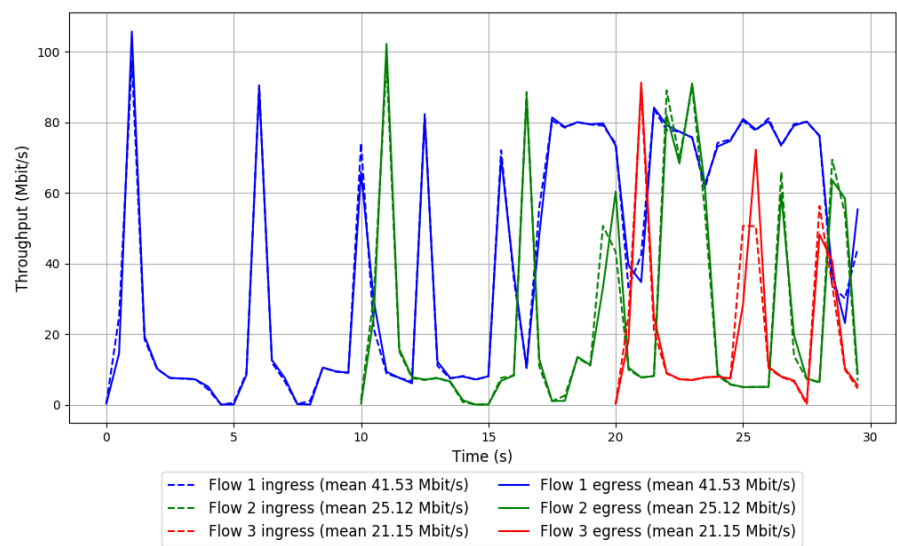
-- Flow 3:

Average throughput: 21.15 Mbit/s

95th percentile per-packet one-way delay: 50.156 ms

Loss rate: 0.00%

Run 2: Report of QUIC Cubic — Data Link

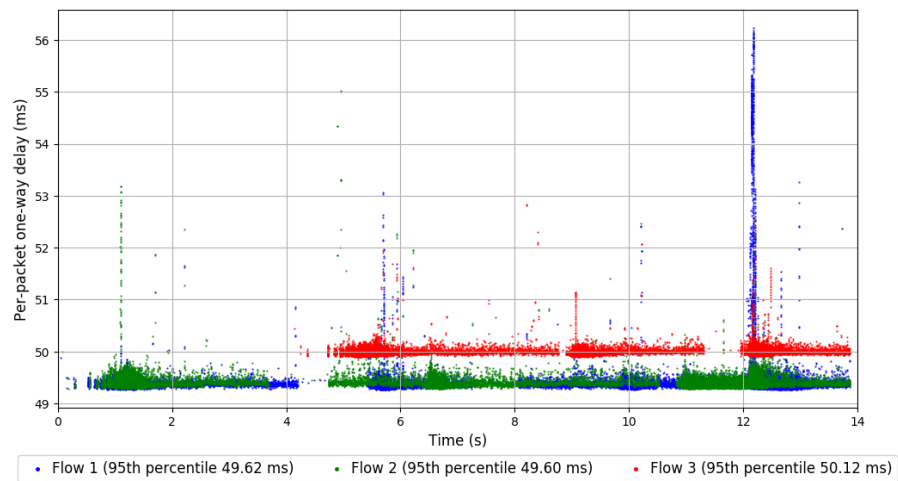
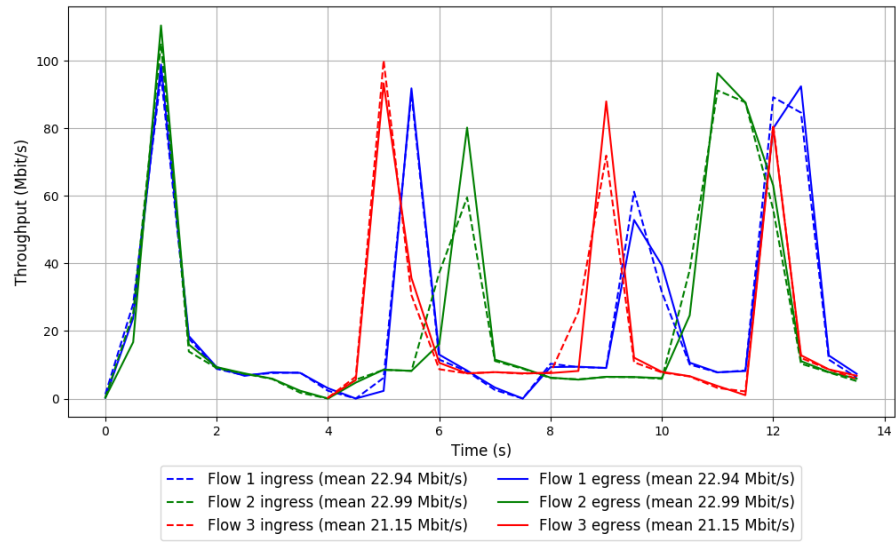


Run 3: Statistics of QUIC Cubic

Start at: 2018-01-09 22:52:54

End at: 2018-01-09 22:53:24

Run 3: Report of QUIC Cubic — Data Link

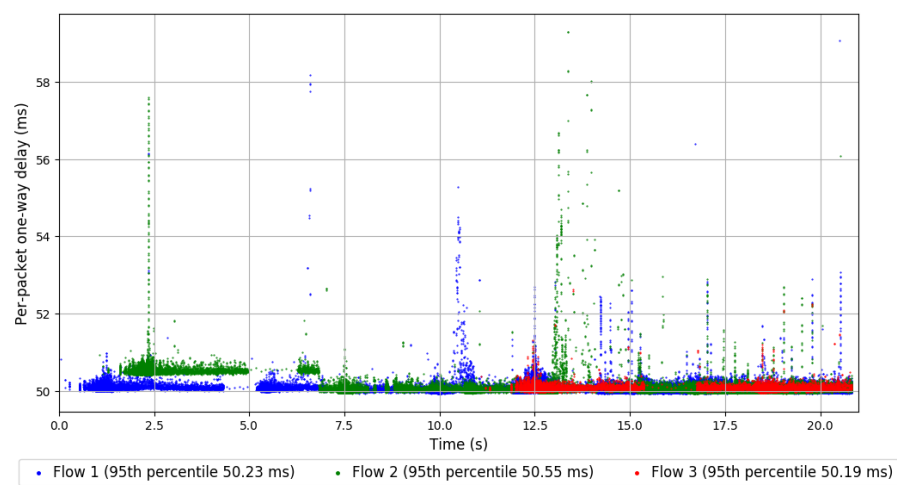
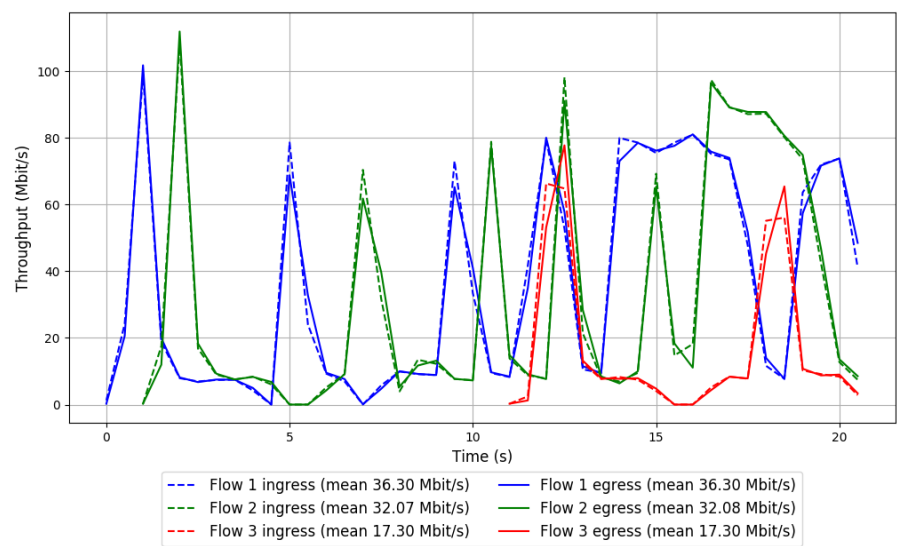


Run 4: Statistics of QUIC Cubic

Start at: 2018-01-09 23:06:38

End at: 2018-01-09 23:07:08

Run 4: Report of QUIC Cubic — Data Link

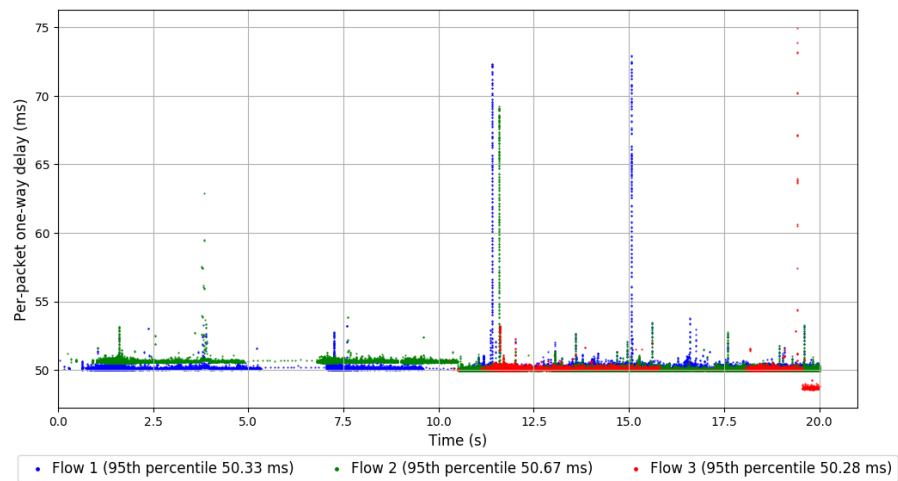
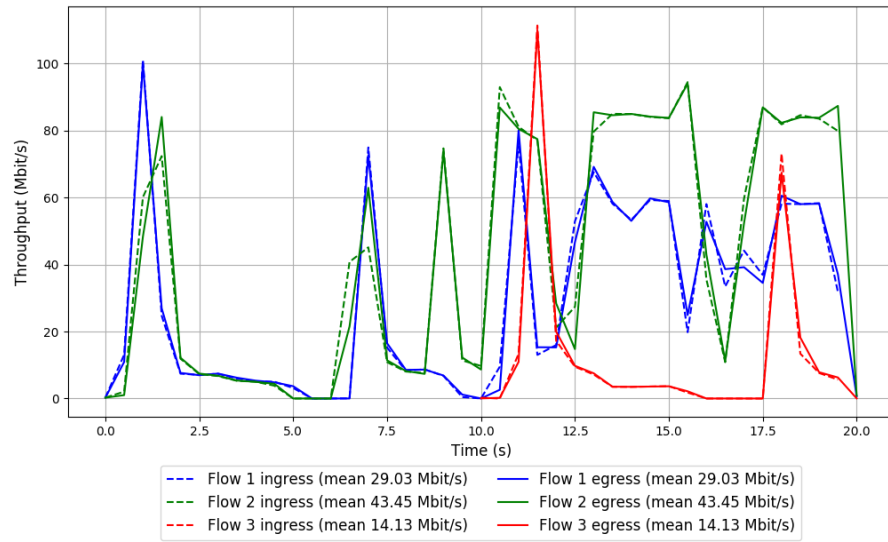


Run 5: Statistics of QUIC Cubic

Start at: 2018-01-09 23:20:25

End at: 2018-01-09 23:20:55

Run 5: Report of QUIC Cubic — Data Link

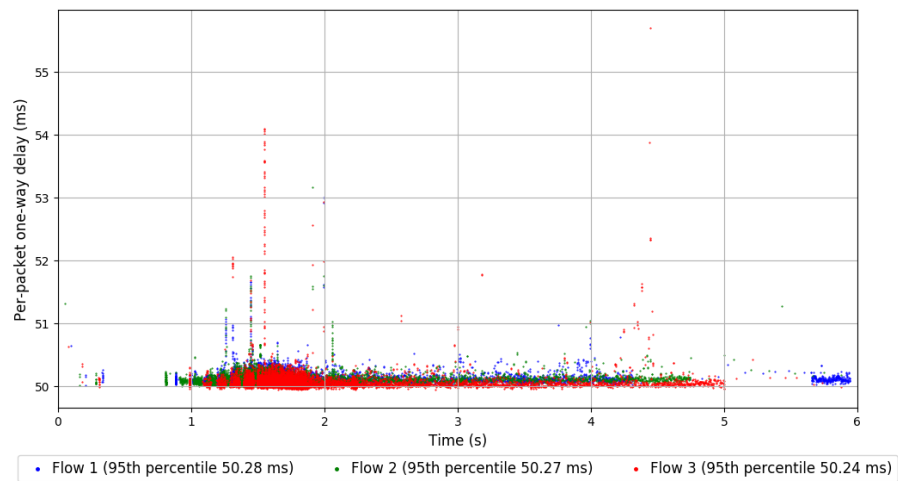
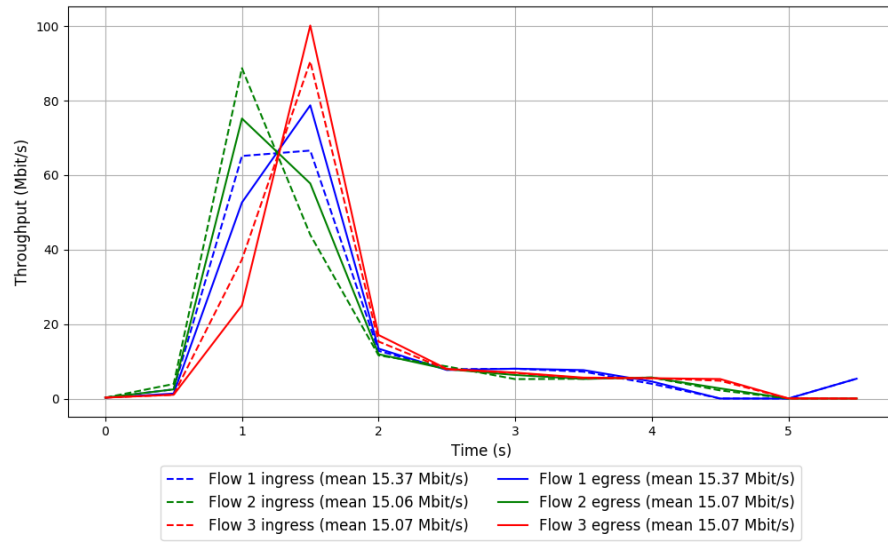


Run 6: Statistics of QUIC Cubic

Start at: 2018-01-09 23:34:09

End at: 2018-01-09 23:34:39

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-01-09 23:47:42

End at: 2018-01-09 23:48:12

Below is generated by plot.py at 2018-01-10 02:49:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 66.68 Mbit/s

95th percentile per-packet one-way delay: 50.697 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 40.63 Mbit/s

95th percentile per-packet one-way delay: 50.727 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 31.49 Mbit/s

95th percentile per-packet one-way delay: 50.213 ms

Loss rate: 0.00%

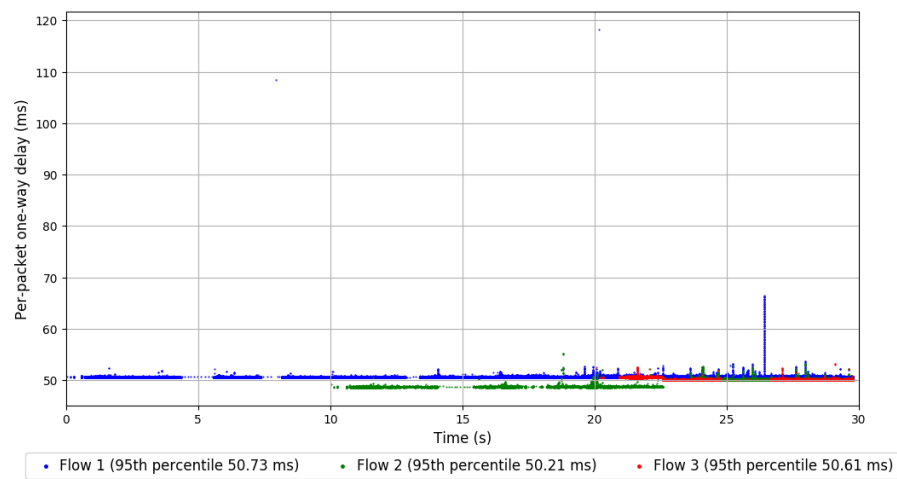
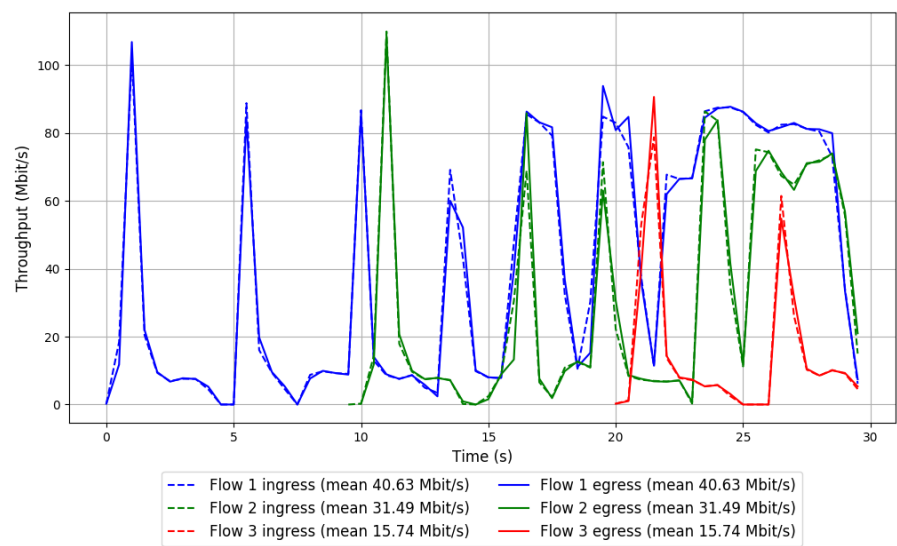
-- Flow 3:

Average throughput: 15.74 Mbit/s

95th percentile per-packet one-way delay: 50.607 ms

Loss rate: 0.00%

Run 7: Report of QUIC Cubic — Data Link

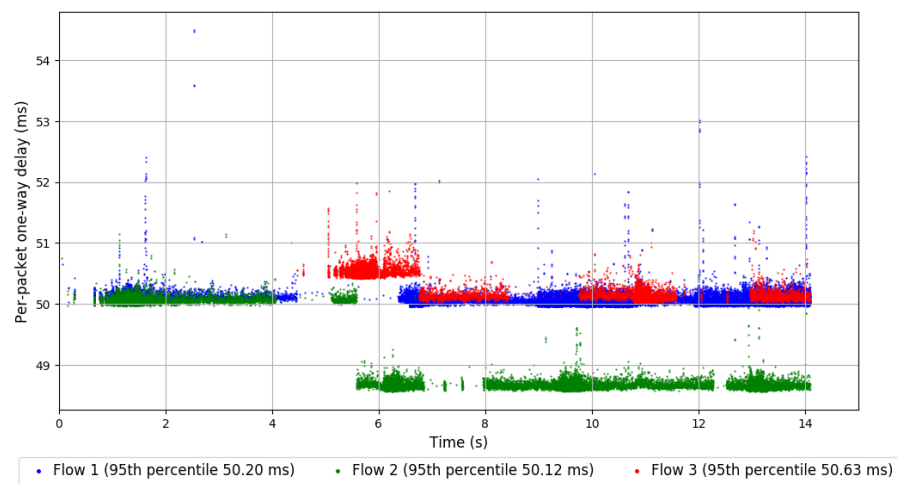
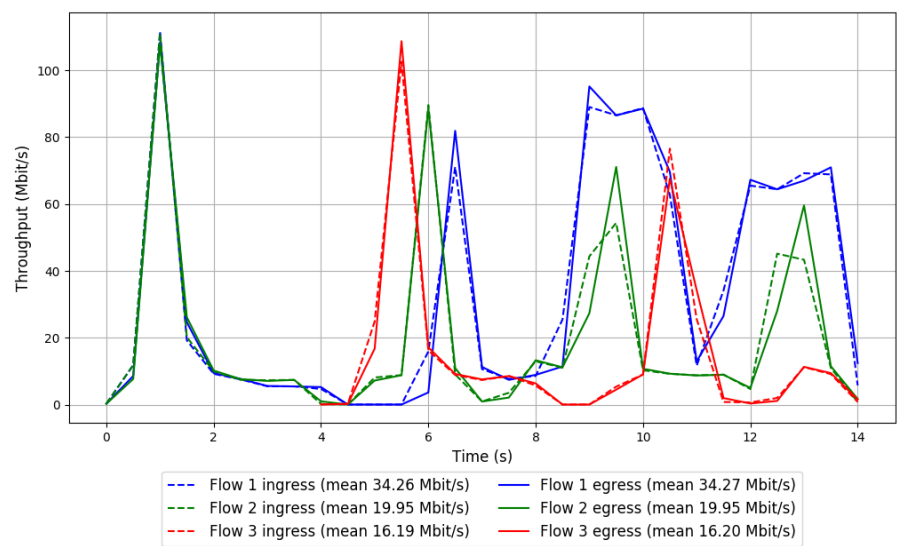


Run 8: Statistics of QUIC Cubic

Start at: 2018-01-10 00:01:33

End at: 2018-01-10 00:02:03

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-01-10 00:15:08

End at: 2018-01-10 00:15:38

Below is generated by plot.py at 2018-01-10 02:49:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 78.09 Mbit/s

95th percentile per-packet one-way delay: 50.738 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 47.77 Mbit/s

95th percentile per-packet one-way delay: 49.568 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 35.88 Mbit/s

95th percentile per-packet one-way delay: 50.828 ms

Loss rate: 0.00%

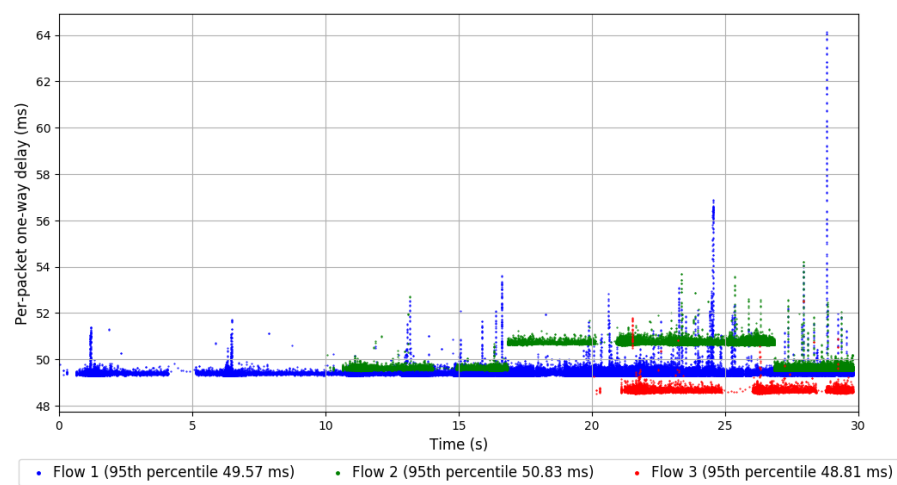
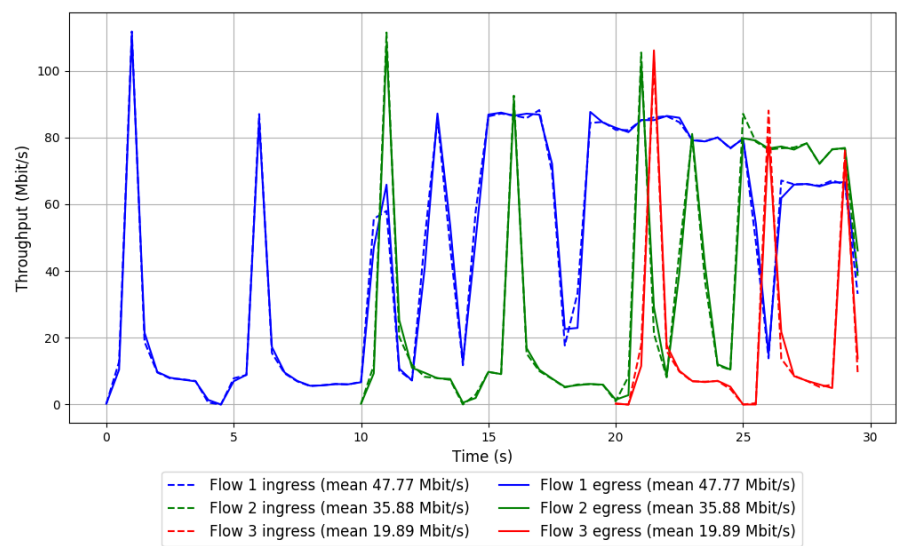
-- Flow 3:

Average throughput: 19.89 Mbit/s

95th percentile per-packet one-way delay: 48.807 ms

Loss rate: 0.00%

Run 9: Report of QUIC Cubic — Data Link

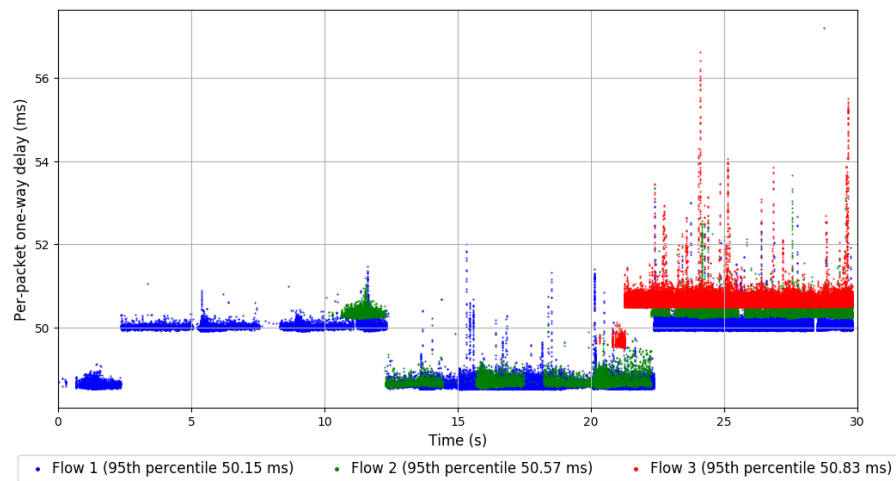
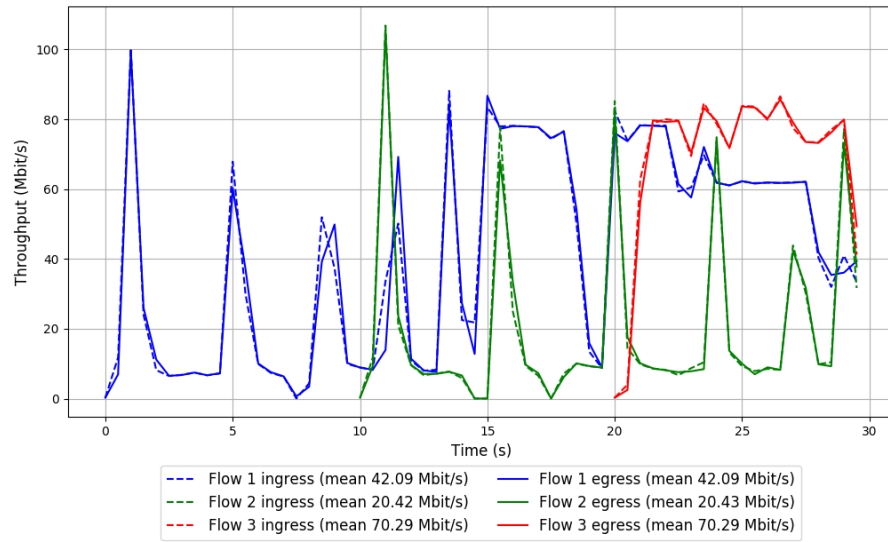


```
Run 10: Statistics of QUIC Cubic

Start at: 2018-01-10 00:28:53
End at: 2018-01-10 00:29:23

# Below is generated by plot.py at 2018-01-10 02:49:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 78.60 Mbit/s
95th percentile per-packet one-way delay: 50.722 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 42.09 Mbit/s
95th percentile per-packet one-way delay: 50.145 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 20.43 Mbit/s
95th percentile per-packet one-way delay: 50.567 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 70.29 Mbit/s
95th percentile per-packet one-way delay: 50.833 ms
Loss rate: 0.00%
```

Run 10: Report of QUIC Cubic — Data Link

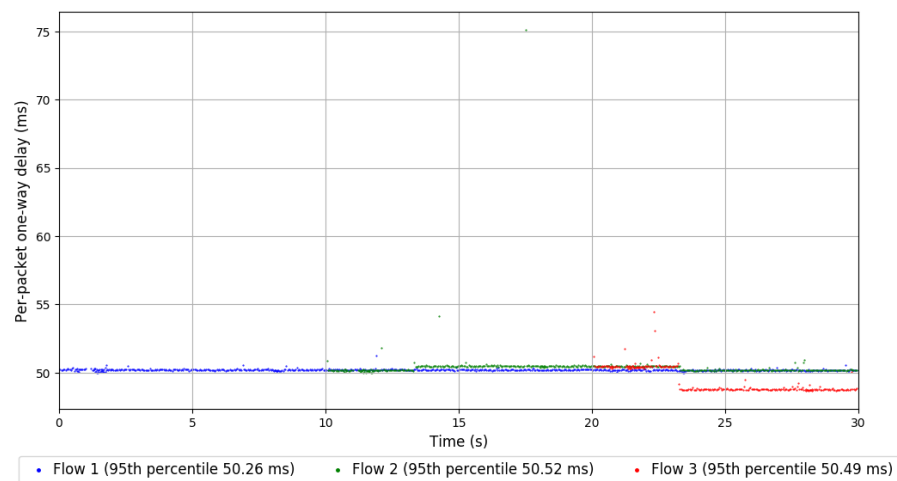
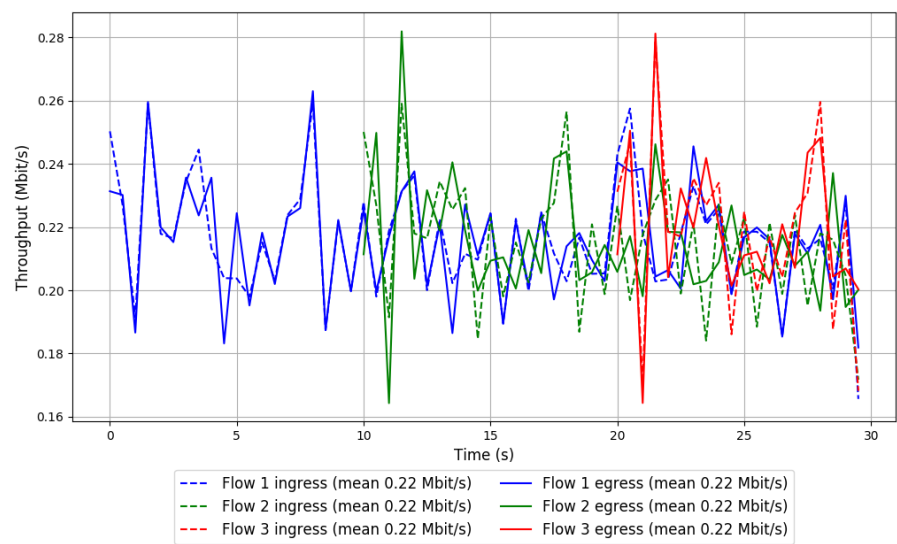


```
Run 1: Statistics of SCReAM

Start at: 2018-01-09 22:34:32
End at: 2018-01-09 22:35:02

# Below is generated by plot.py at 2018-01-10 02:49:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 50.484 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.261 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.521 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.493 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

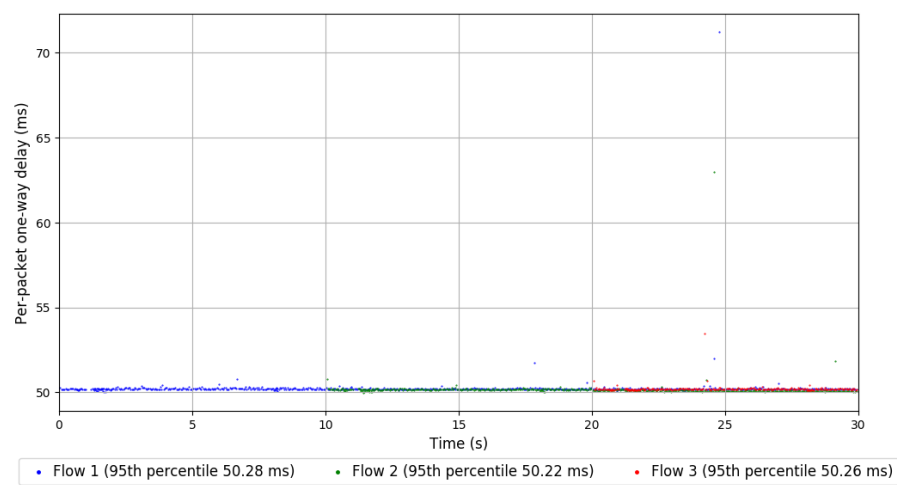
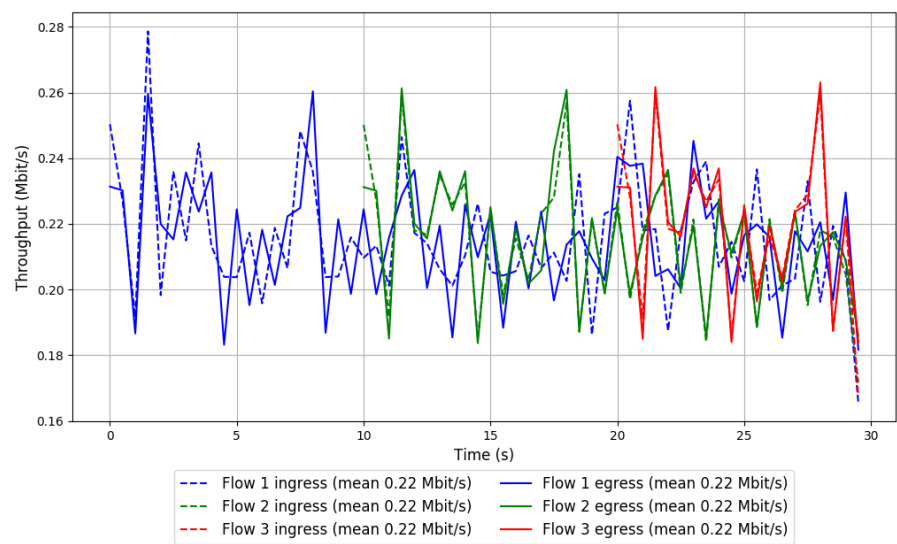


```
Run 2: Statistics of SReAM

Start at: 2018-01-09 22:48:22
End at: 2018-01-09 22:48:52

# Below is generated by plot.py at 2018-01-10 02:49:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 50.264 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.281 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.217 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.255 ms
Loss rate: 0.00%
```

Run 2: Report of SReAM — Data Link

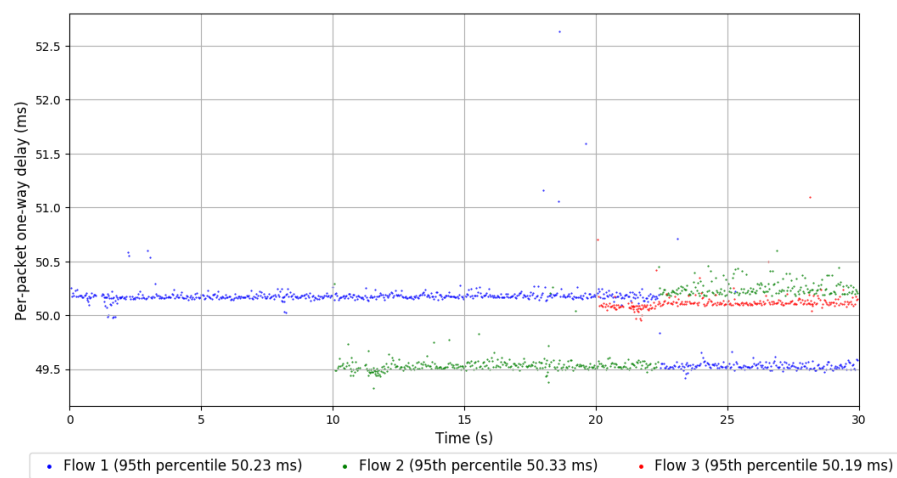
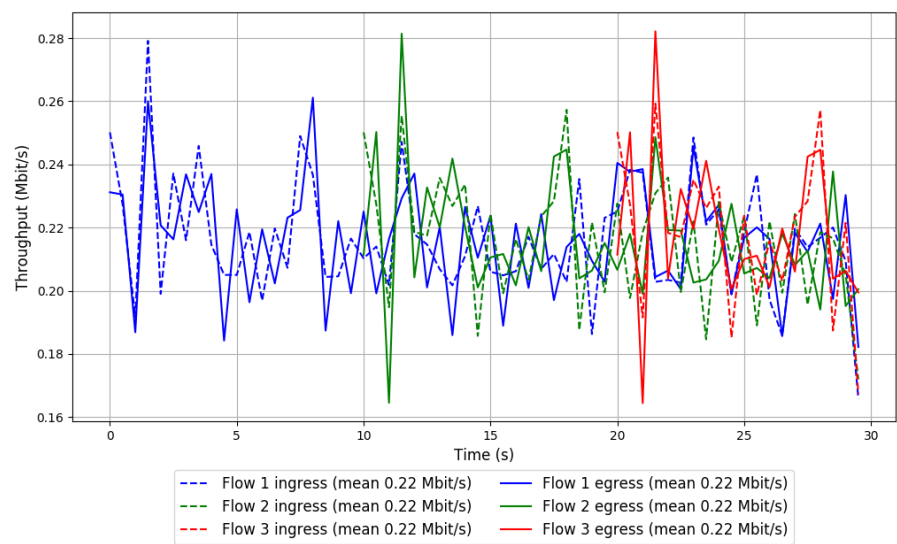


```
Run 3: Statistics of SReAM

Start at: 2018-01-09 23:02:02
End at: 2018-01-09 23:02:32

# Below is generated by plot.py at 2018-01-10 02:49:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 50.262 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.227 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.332 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.192 ms
Loss rate: 0.00%
```


Run 3: Report of SReAM — Data Link

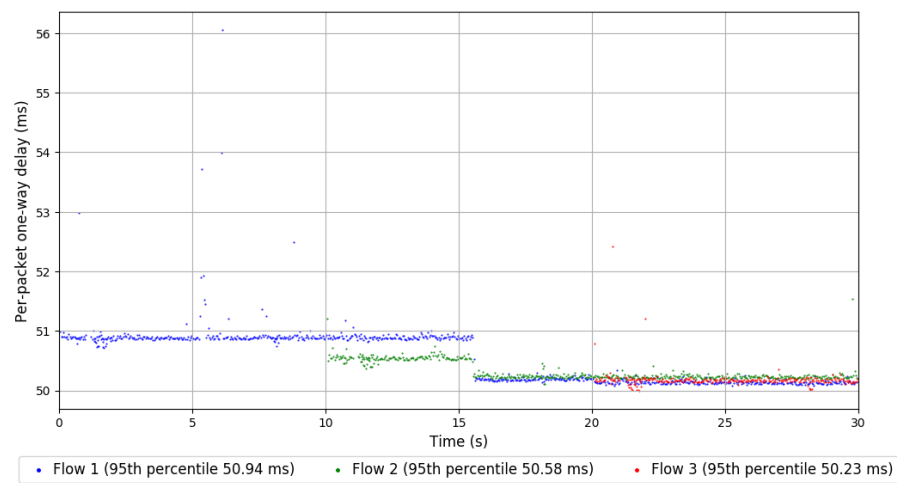
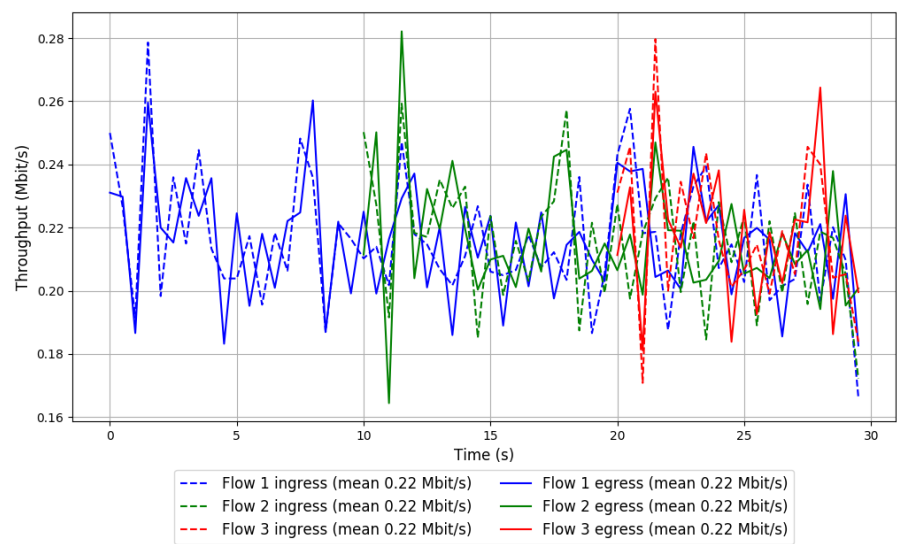


```
Run 4: Statistics of SCReAM

Start at: 2018-01-09 23:15:50
End at: 2018-01-09 23:16:20

# Below is generated by plot.py at 2018-01-10 02:49:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 50.916 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.938 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.577 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.228 ms
Loss rate: 0.00%
```

Run 4: Report of SReAM — Data Link

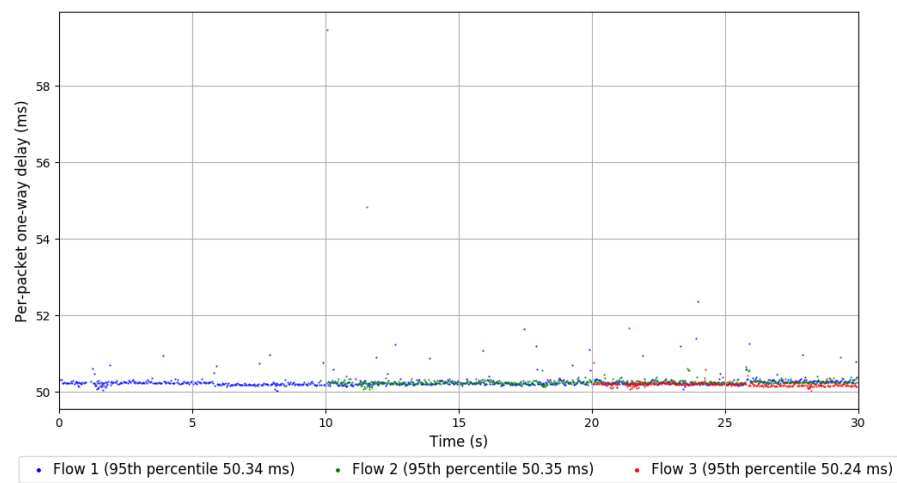
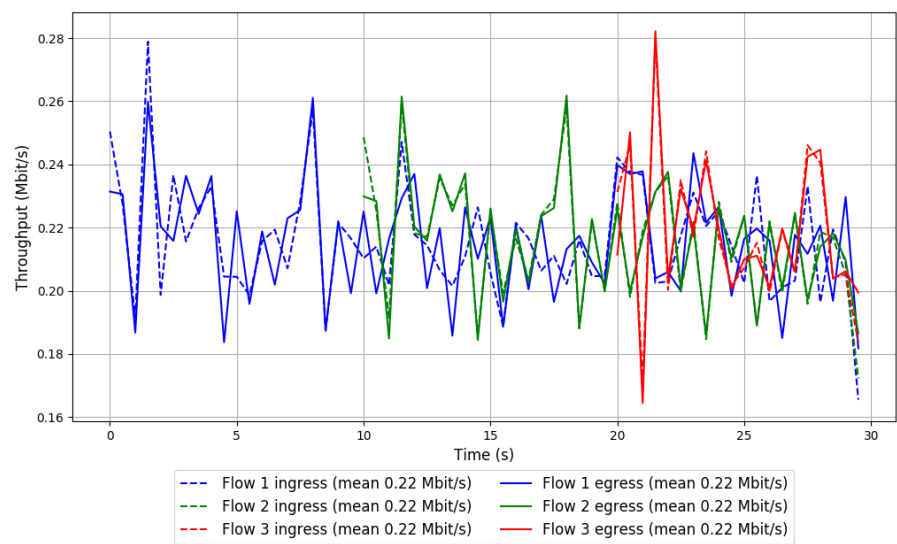


```
Run 5: Statistics of SCReAM

Start at: 2018-01-09 23:29:39
End at: 2018-01-09 23:30:09

# Below is generated by plot.py at 2018-01-10 02:49:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 50.334 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.335 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.351 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.242 ms
Loss rate: 0.00%
```

Run 5: Report of SReAM — Data Link

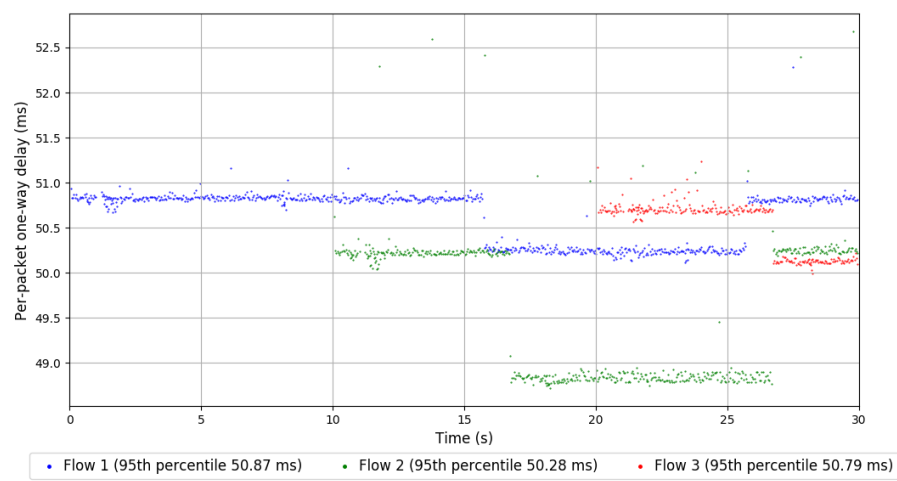
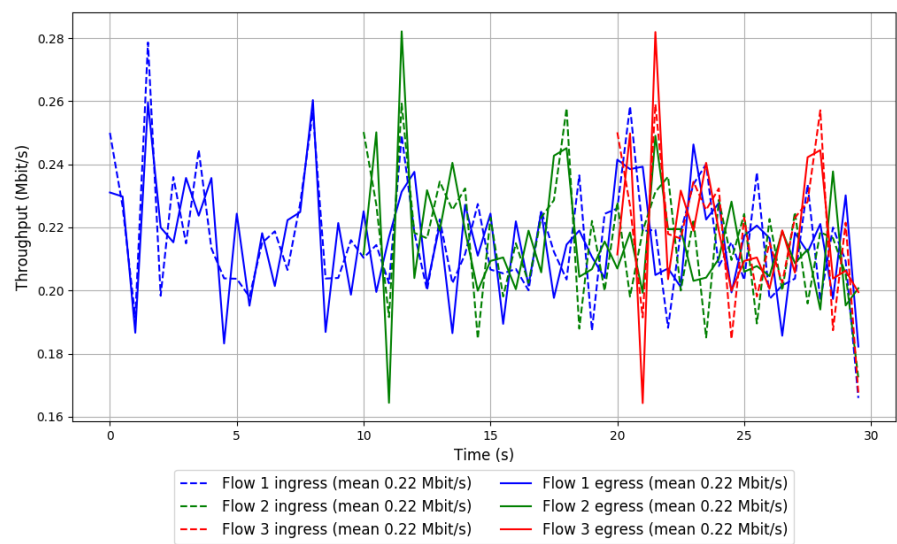


```
Run 6: Statistics of SCReAM

Start at: 2018-01-09 23:43:09
End at: 2018-01-09 23:43:39

# Below is generated by plot.py at 2018-01-10 02:49:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 50.856 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.866 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.285 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.788 ms
Loss rate: 0.00%
```

Run 6: Report of SReAM — Data Link

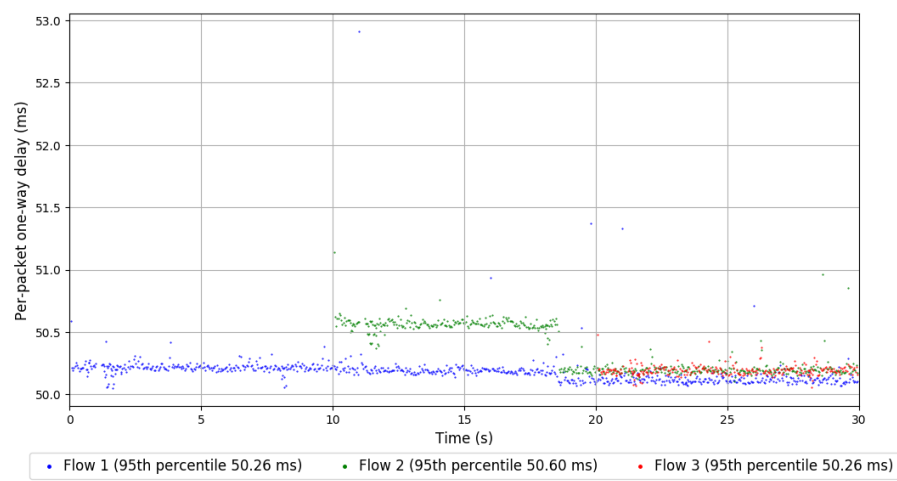
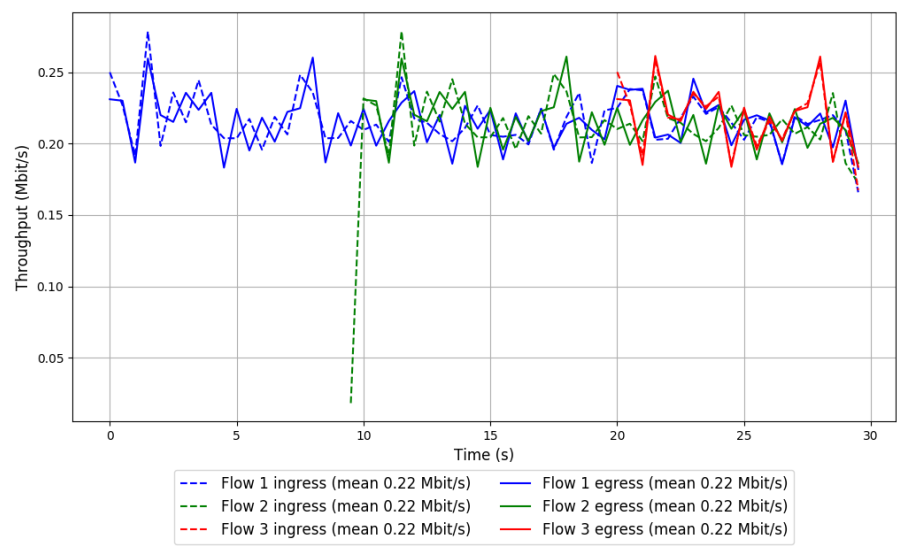


```
Run 7: Statistics of SReAM

Start at: 2018-01-09 23:56:57
End at: 2018-01-09 23:57:27

# Below is generated by plot.py at 2018-01-10 02:49:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 50.579 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.257 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.605 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.257 ms
Loss rate: 0.00%
```


Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-01-10 00:10:32

End at: 2018-01-10 00:11:02

Below is generated by plot.py at 2018-01-10 02:49:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 50.769 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.799 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.303 ms

Loss rate: 0.00%

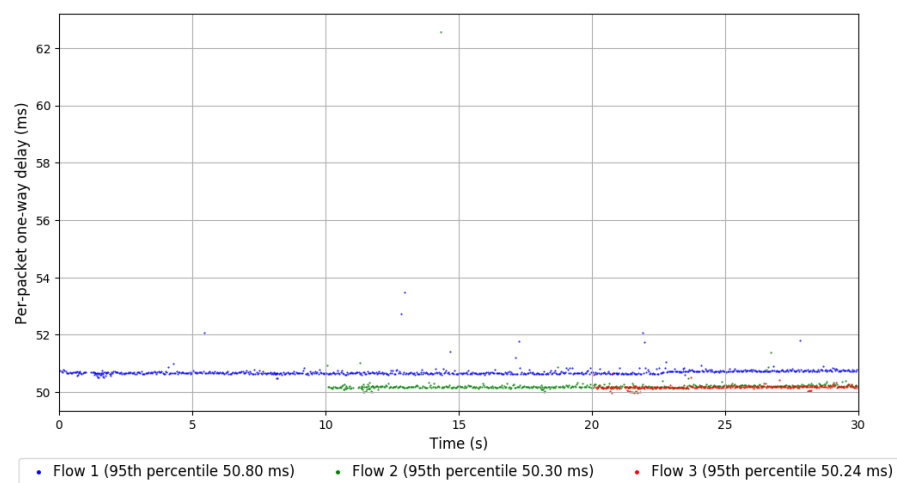
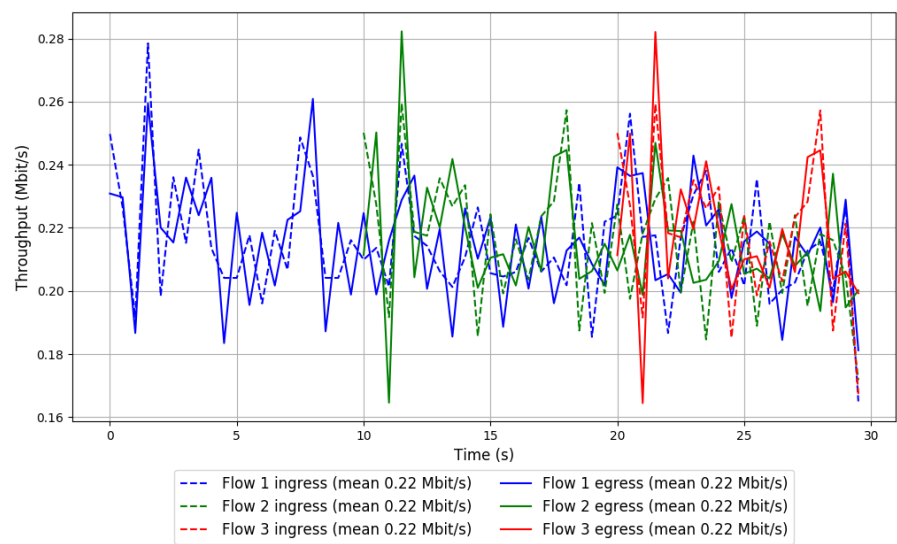
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.236 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SReAM

Start at: 2018-01-10 00:24:15

End at: 2018-01-10 00:24:45

Below is generated by plot.py at 2018-01-10 02:49:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 50.531 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.567 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.259 ms

Loss rate: 0.00%

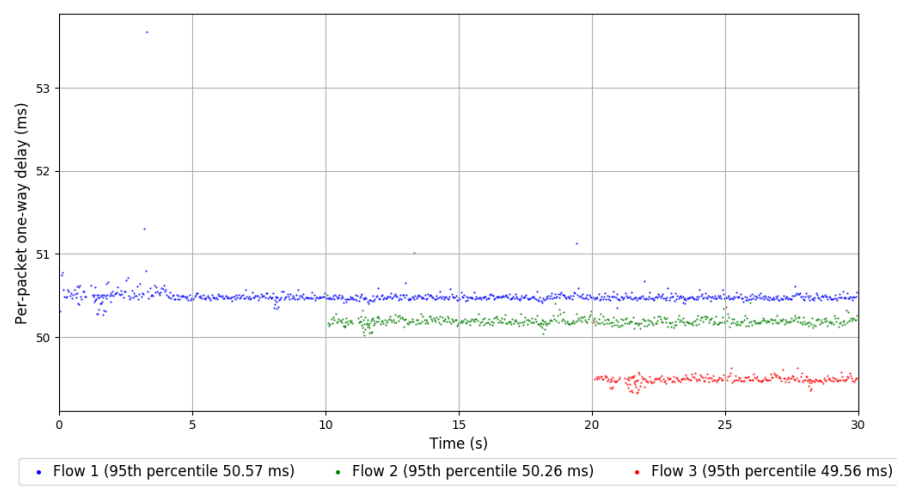
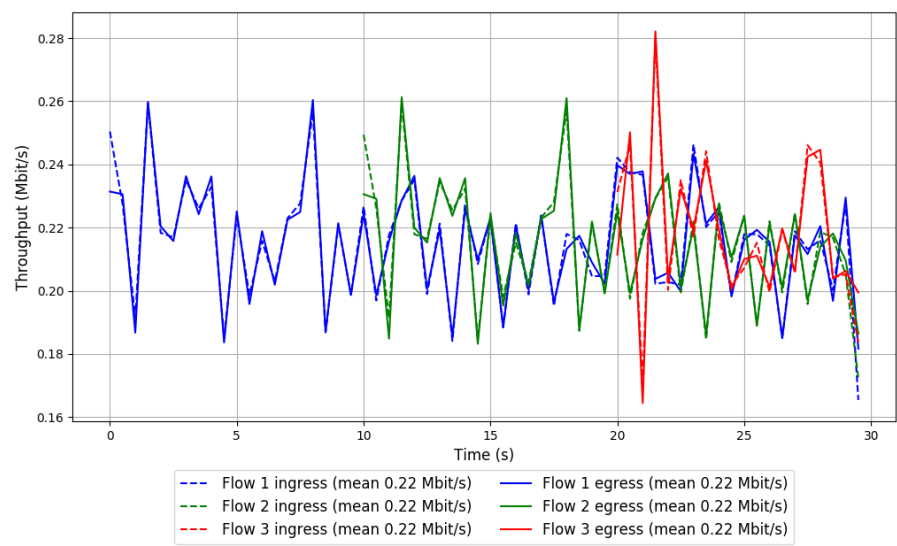
-- Flow 3:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link

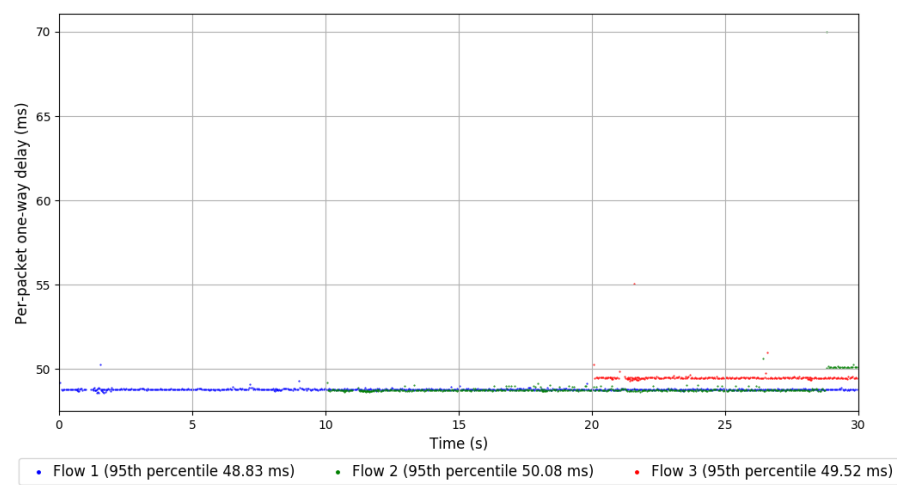
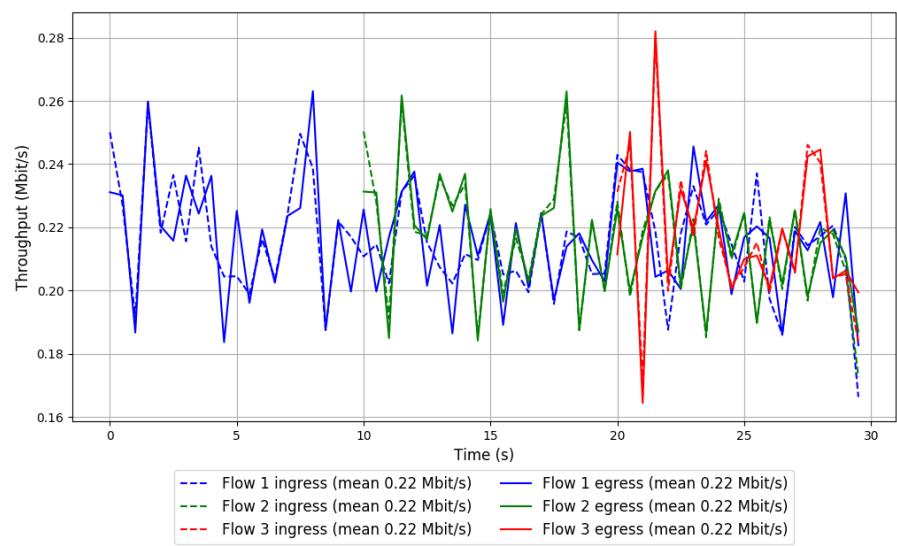


```
Run 10: Statistics of SCReAM

Start at: 2018-01-10 00:37:56
End at: 2018-01-10 00:38:26

# Below is generated by plot.py at 2018-01-10 02:49:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 49.497 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 48.832 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.078 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 49.521 ms
Loss rate: 0.00%
```

Run 10: Report of SReAM — Data Link

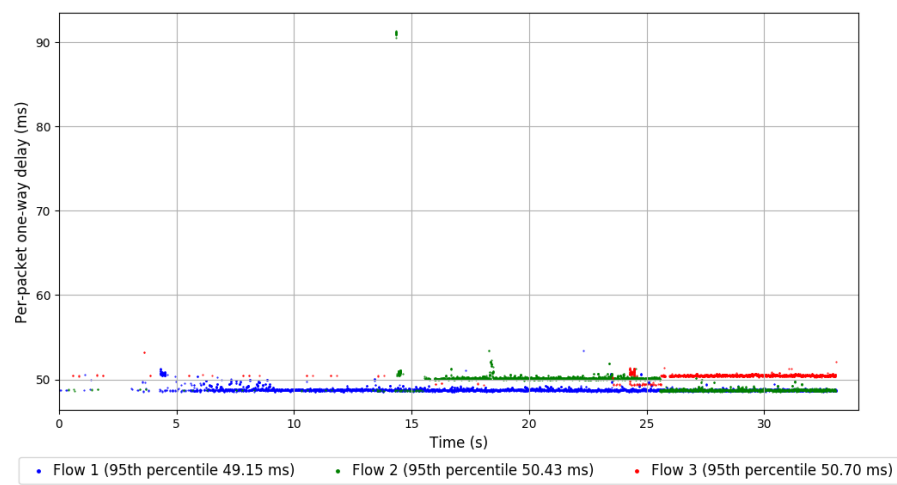
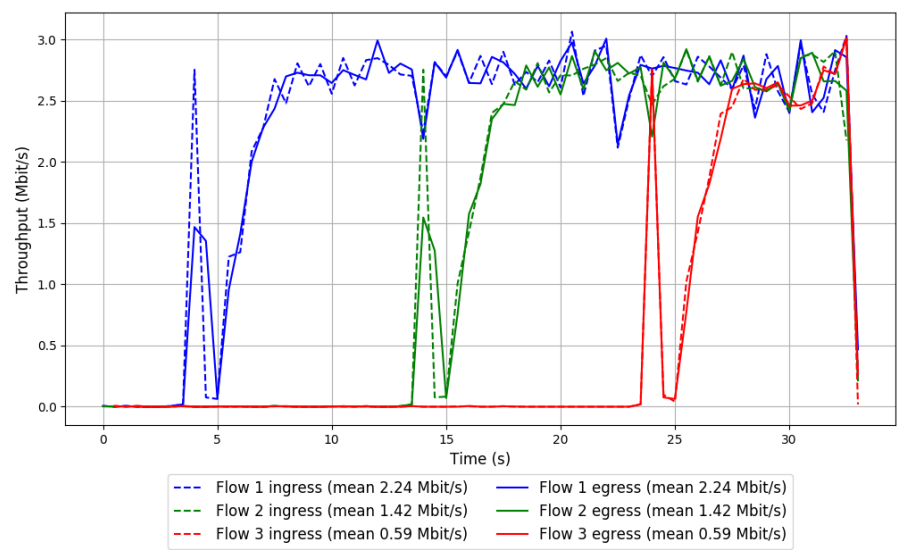


```
Run 1: Statistics of WebRTC media

Start at: 2018-01-09 22:27:12
End at: 2018-01-09 22:27:42

# Below is generated by plot.py at 2018-01-10 02:49:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.23 Mbit/s
95th percentile per-packet one-way delay: 50.540 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.24 Mbit/s
95th percentile per-packet one-way delay: 49.154 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.42 Mbit/s
95th percentile per-packet one-way delay: 50.430 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.59 Mbit/s
95th percentile per-packet one-way delay: 50.701 ms
Loss rate: 0.00%
```


Run 1: Report of WebRTC media — Data Link

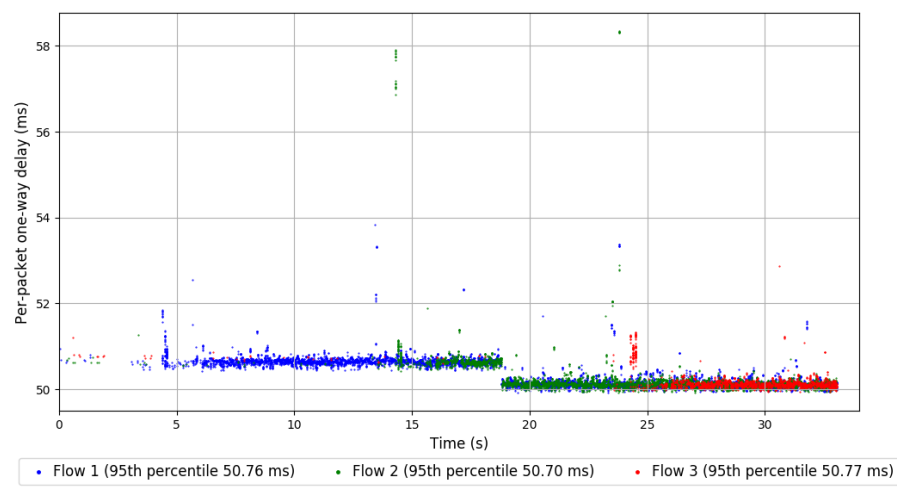
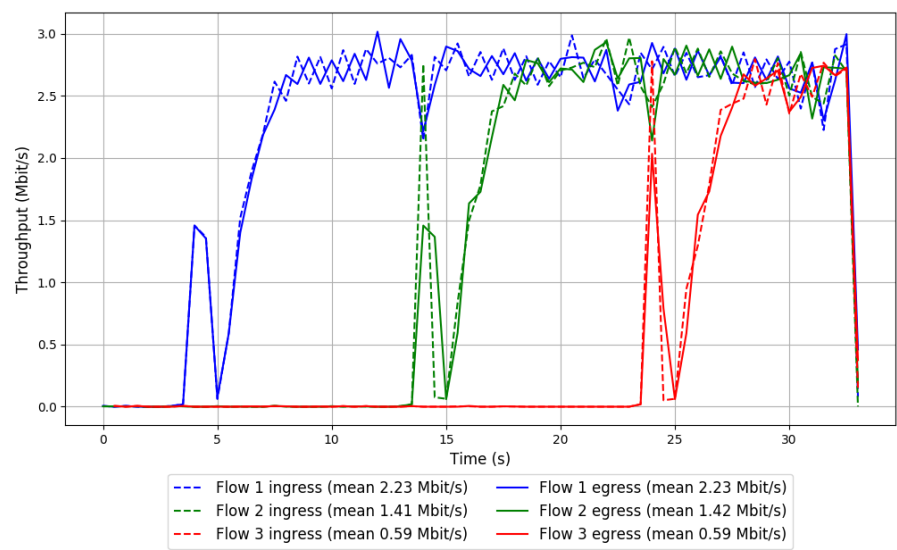


```
Run 2: Statistics of WebRTC media

Start at: 2018-01-09 22:40:52
End at: 2018-01-09 22:41:22

# Below is generated by plot.py at 2018-01-10 02:49:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.21 Mbit/s
95th percentile per-packet one-way delay: 50.751 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.23 Mbit/s
95th percentile per-packet one-way delay: 50.763 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.42 Mbit/s
95th percentile per-packet one-way delay: 50.705 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.59 Mbit/s
95th percentile per-packet one-way delay: 50.774 ms
Loss rate: 0.00%
```

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-01-09 22:54:37

End at: 2018-01-09 22:55:07

Below is generated by plot.py at 2018-01-10 02:49:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.23 Mbit/s

95th percentile per-packet one-way delay: 50.644 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 50.326 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.42 Mbit/s

95th percentile per-packet one-way delay: 50.660 ms

Loss rate: 0.00%

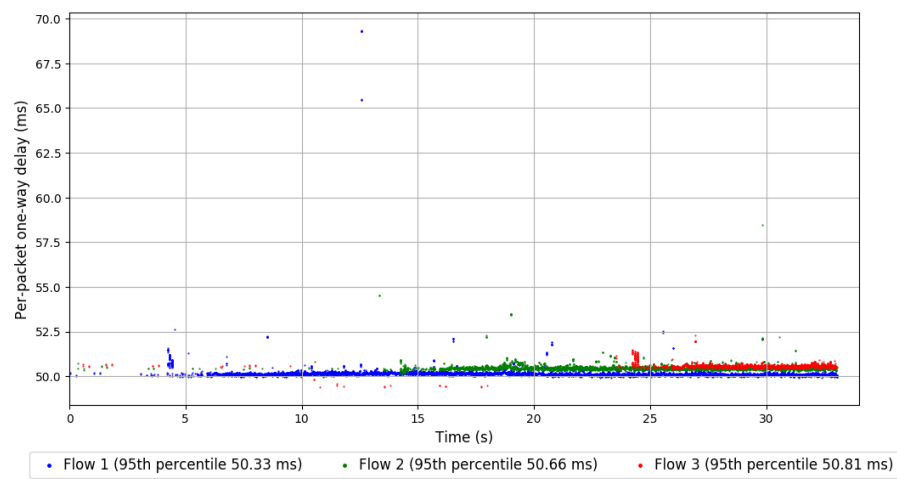
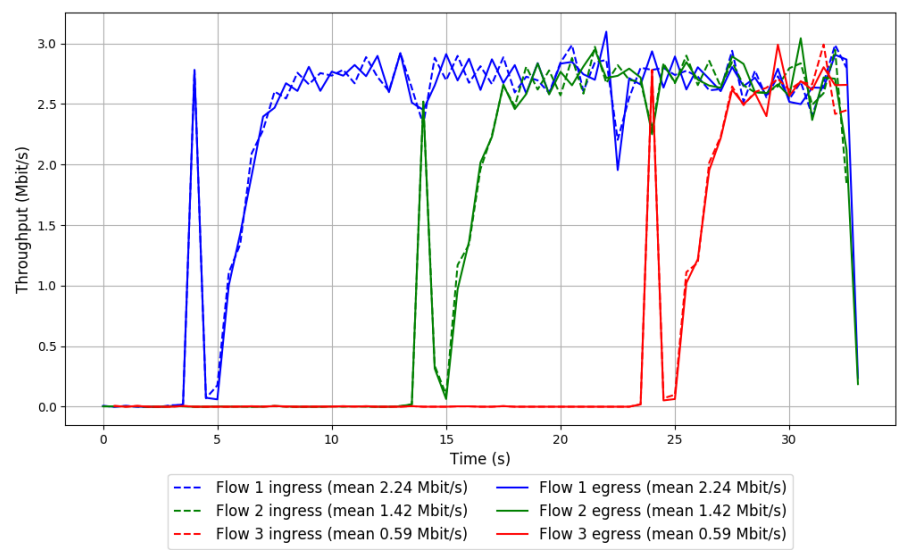
-- Flow 3:

Average throughput: 0.59 Mbit/s

95th percentile per-packet one-way delay: 50.809 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-01-09 23:08:22

End at: 2018-01-09 23:08:52

Below is generated by plot.py at 2018-01-10 02:49:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.27 Mbit/s

95th percentile per-packet one-way delay: 50.386 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.25 Mbit/s

95th percentile per-packet one-way delay: 50.360 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.43 Mbit/s

95th percentile per-packet one-way delay: 50.420 ms

Loss rate: 0.00%

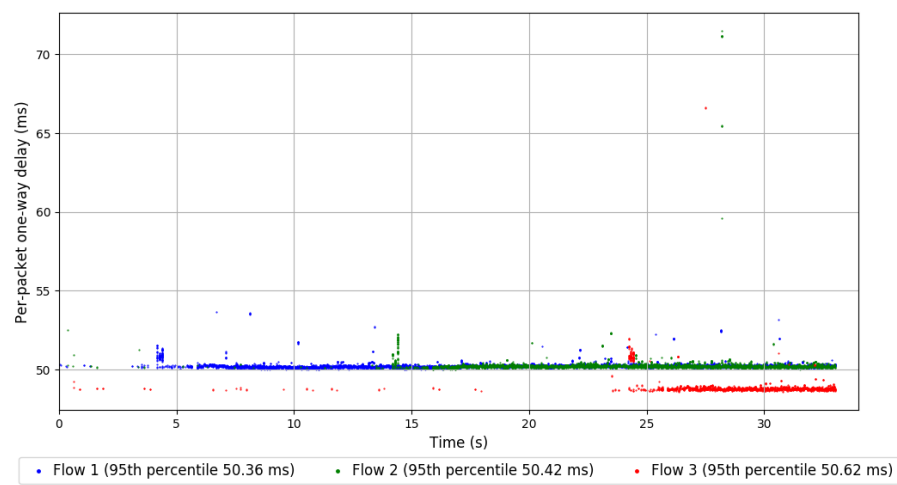
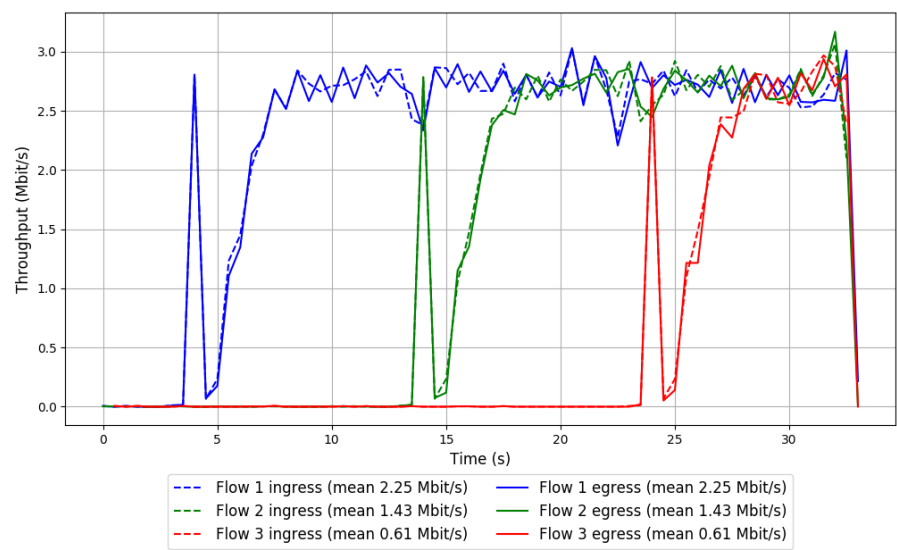
-- Flow 3:

Average throughput: 0.61 Mbit/s

95th percentile per-packet one-way delay: 50.619 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-01-09 23:22:12

End at: 2018-01-09 23:22:42

Below is generated by plot.py at 2018-01-10 02:49:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.32 Mbit/s

95th percentile per-packet one-way delay: 50.527 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.27 Mbit/s

95th percentile per-packet one-way delay: 48.922 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.44 Mbit/s

95th percentile per-packet one-way delay: 50.370 ms

Loss rate: 0.00%

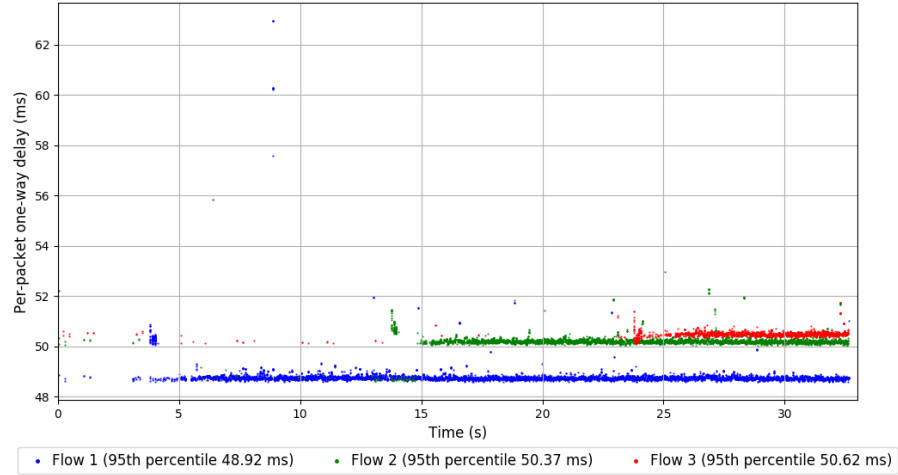
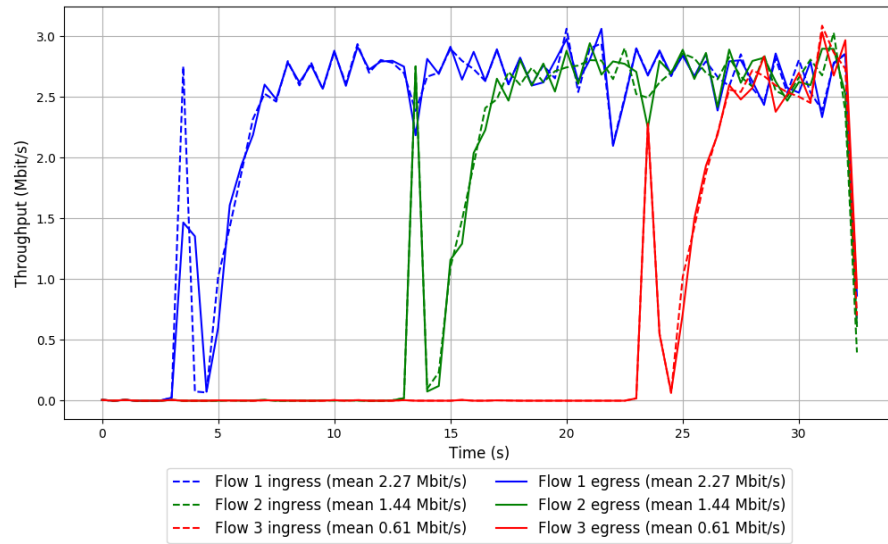
-- Flow 3:

Average throughput: 0.61 Mbit/s

95th percentile per-packet one-way delay: 50.616 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-01-09 23:35:45

End at: 2018-01-09 23:36:15

Below is generated by plot.py at 2018-01-10 02:49:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.23 Mbit/s

95th percentile per-packet one-way delay: 50.583 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 50.344 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.42 Mbit/s

95th percentile per-packet one-way delay: 50.636 ms

Loss rate: 0.00%

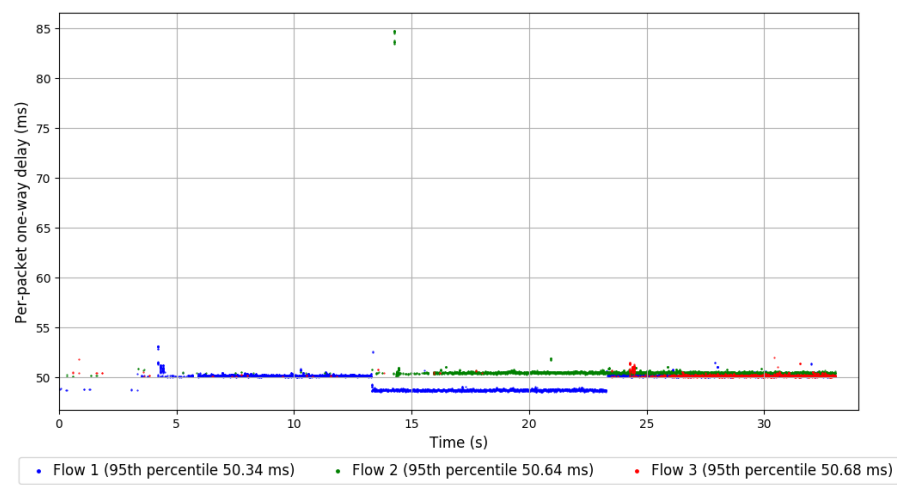
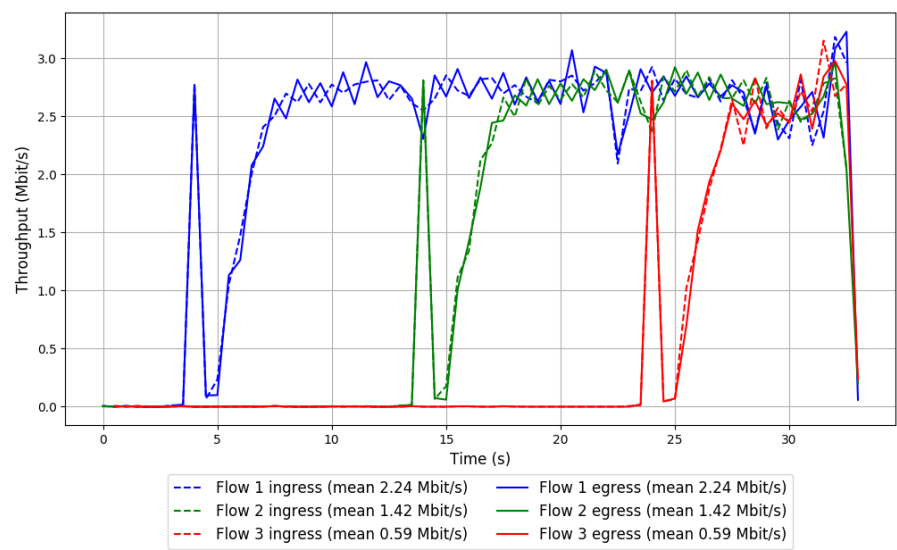
-- Flow 3:

Average throughput: 0.59 Mbit/s

95th percentile per-packet one-way delay: 50.682 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-01-09 23:49:26

End at: 2018-01-09 23:49:56

Below is generated by plot.py at 2018-01-10 02:49:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.26 Mbit/s

95th percentile per-packet one-way delay: 50.341 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.25 Mbit/s

95th percentile per-packet one-way delay: 50.224 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.42 Mbit/s

95th percentile per-packet one-way delay: 50.400 ms

Loss rate: 0.00%

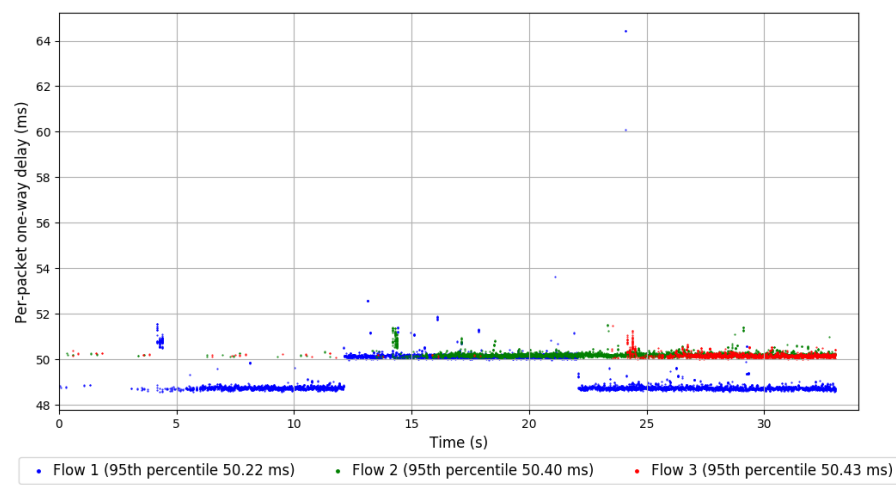
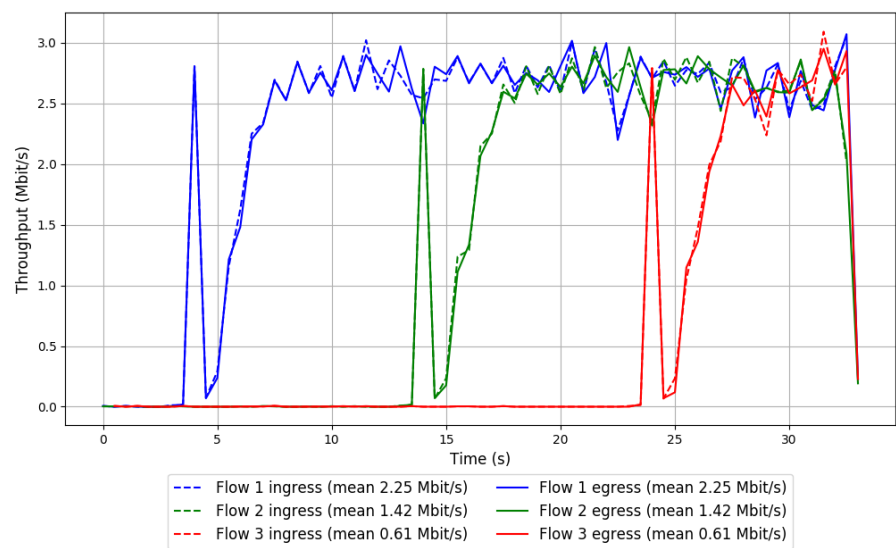
-- Flow 3:

Average throughput: 0.61 Mbit/s

95th percentile per-packet one-way delay: 50.427 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-01-10 00:02:59

End at: 2018-01-10 00:03:29

Below is generated by plot.py at 2018-01-10 02:49:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.24 Mbit/s

95th percentile per-packet one-way delay: 50.715 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 50.744 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.43 Mbit/s

95th percentile per-packet one-way delay: 50.317 ms

Loss rate: 0.00%

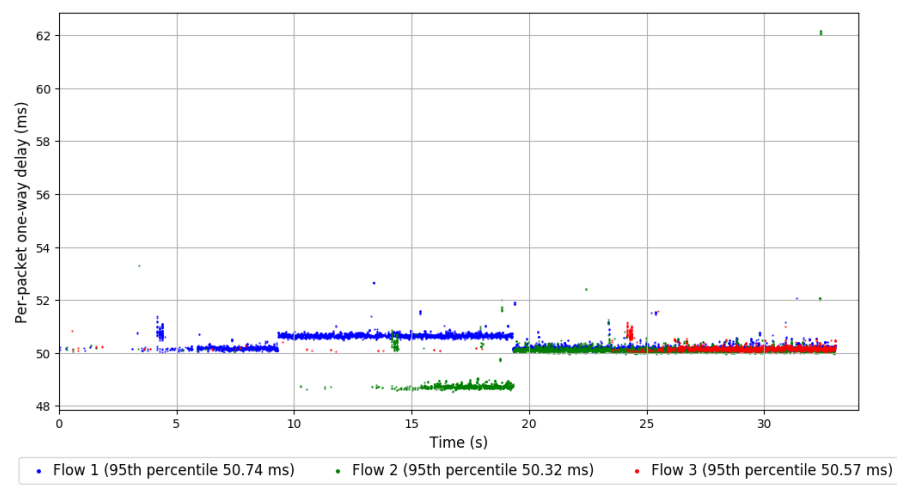
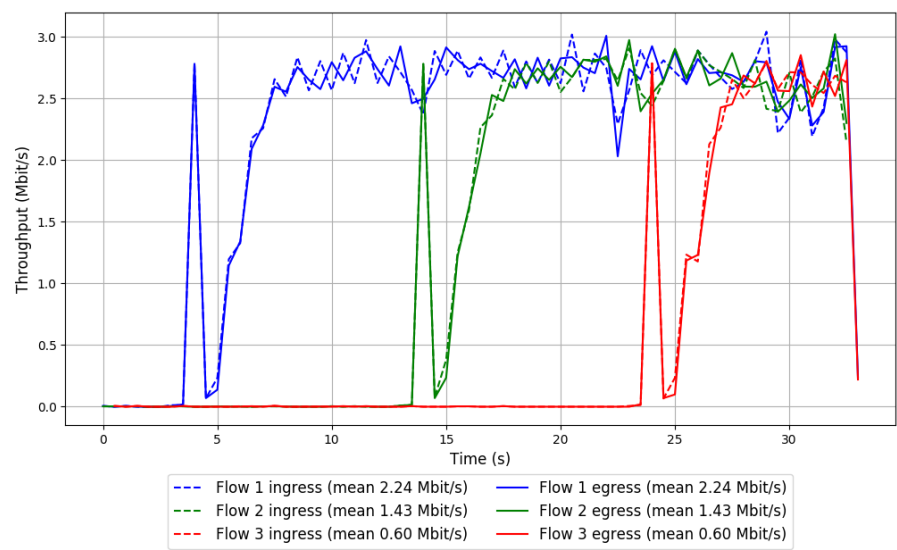
-- Flow 3:

Average throughput: 0.60 Mbit/s

95th percentile per-packet one-way delay: 50.572 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-01-10 00:16:49

End at: 2018-01-10 00:17:19

Below is generated by plot.py at 2018-01-10 02:49:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.23 Mbit/s

95th percentile per-packet one-way delay: 50.681 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 49.825 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.42 Mbit/s

95th percentile per-packet one-way delay: 50.480 ms

Loss rate: 0.00%

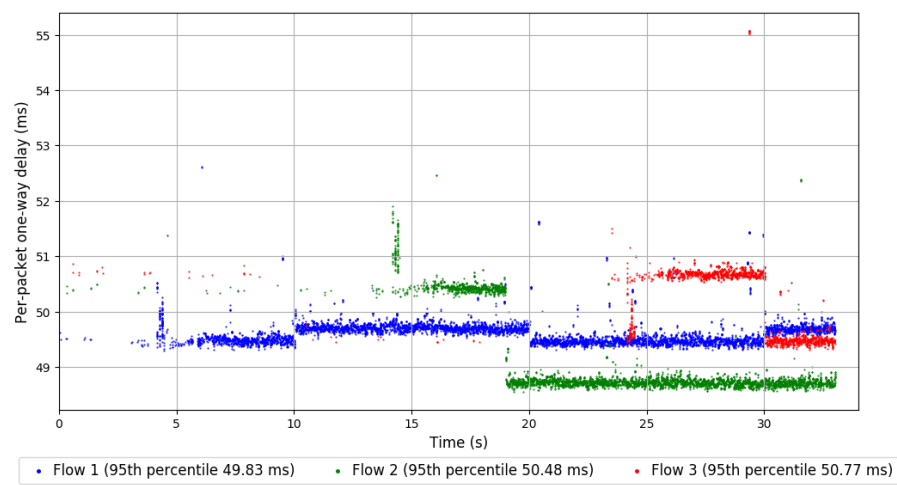
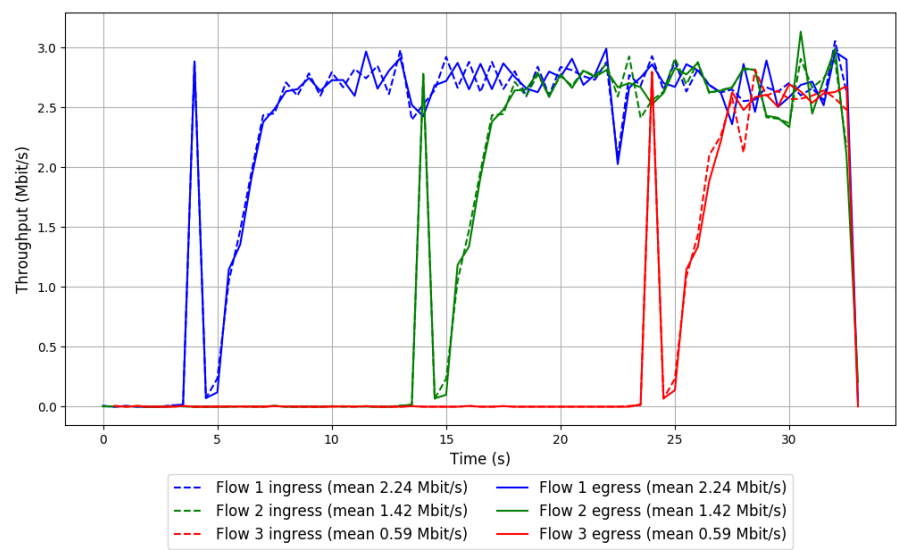
-- Flow 3:

Average throughput: 0.59 Mbit/s

95th percentile per-packet one-way delay: 50.769 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-01-10 00:30:37

End at: 2018-01-10 00:31:07

Below is generated by plot.py at 2018-01-10 02:49:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.25 Mbit/s

95th percentile per-packet one-way delay: 50.321 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.25 Mbit/s

95th percentile per-packet one-way delay: 50.404 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.42 Mbit/s

95th percentile per-packet one-way delay: 49.662 ms

Loss rate: 0.00%

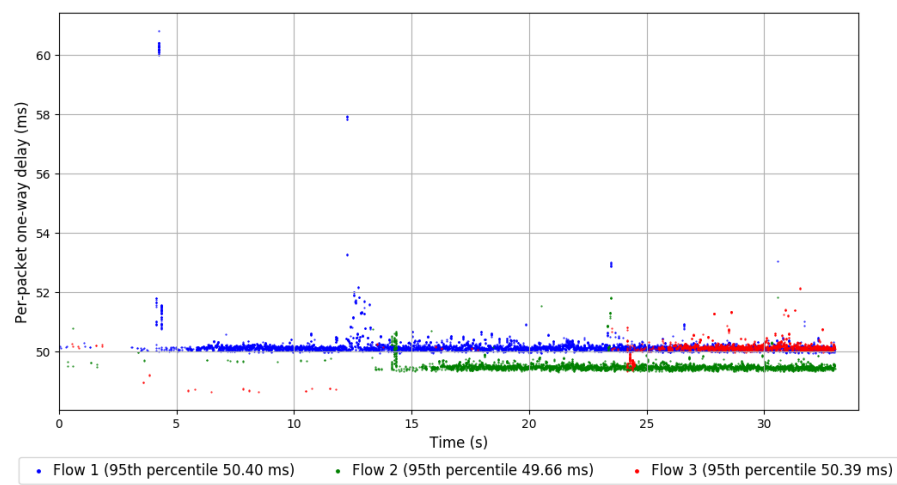
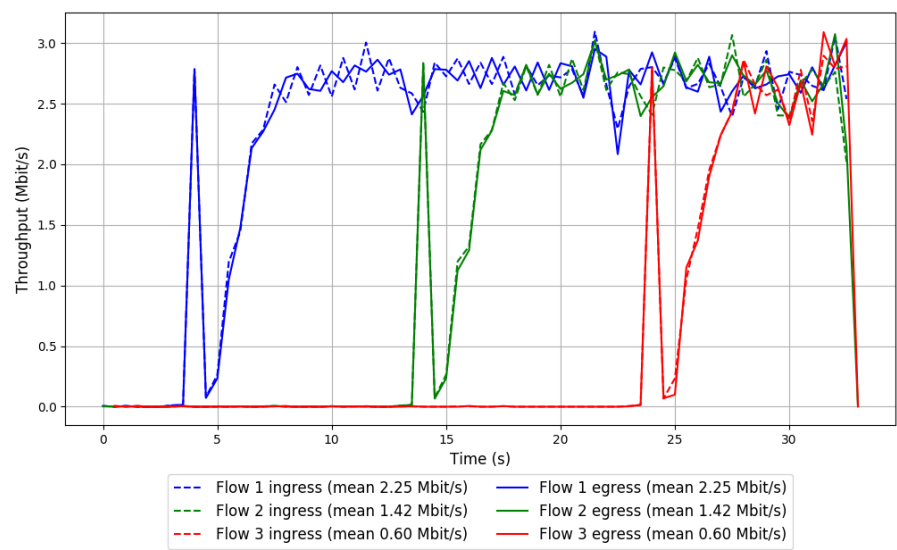
-- Flow 3:

Average throughput: 0.60 Mbit/s

95th percentile per-packet one-way delay: 50.388 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

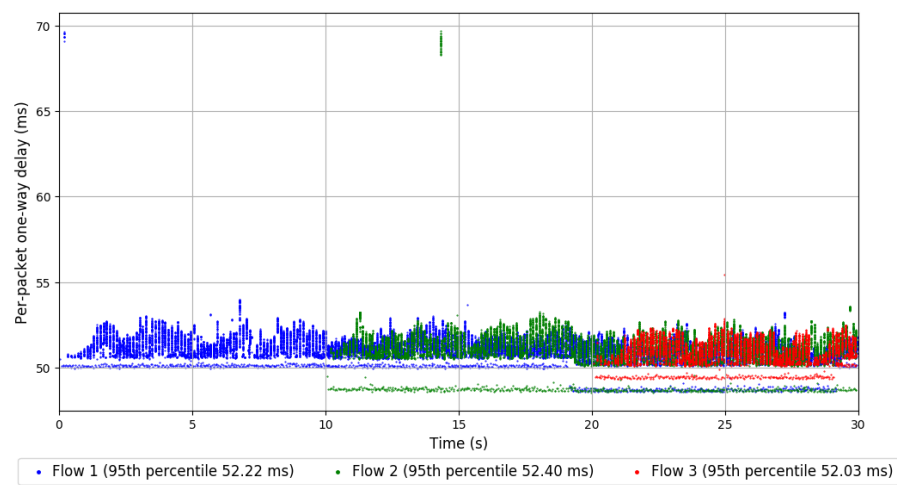
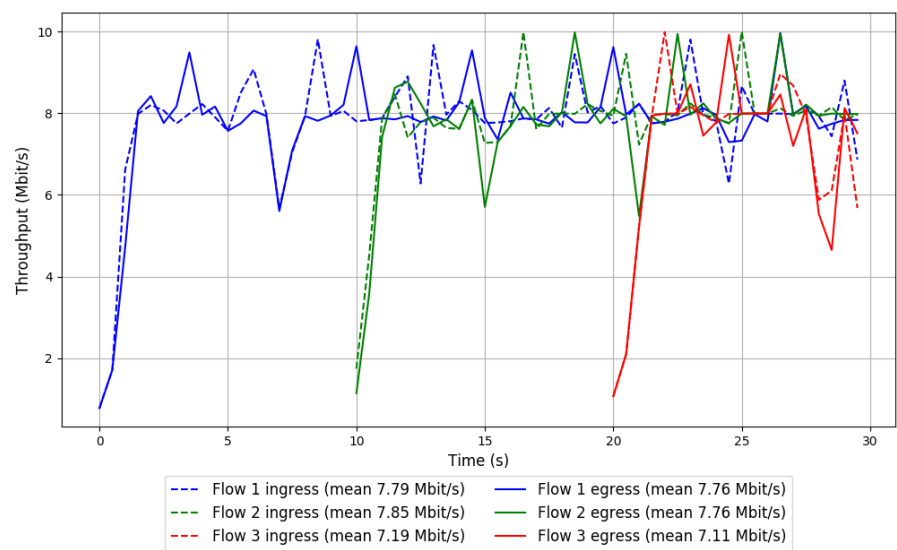


```
Run 1: Statistics of Sprout

Start at: 2018-01-09 22:28:46
End at: 2018-01-09 22:29:16

# Below is generated by plot.py at 2018-01-10 02:49:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 15.25 Mbit/s
95th percentile per-packet one-way delay: 52.253 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 7.76 Mbit/s
95th percentile per-packet one-way delay: 52.217 ms
Loss rate: 0.45%
-- Flow 2:
Average throughput: 7.76 Mbit/s
95th percentile per-packet one-way delay: 52.399 ms
Loss rate: 1.06%
-- Flow 3:
Average throughput: 7.11 Mbit/s
95th percentile per-packet one-way delay: 52.033 ms
Loss rate: 1.17%
```

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-01-09 22:42:22

End at: 2018-01-09 22:42:52

Below is generated by plot.py at 2018-01-10 02:49:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.43 Mbit/s

95th percentile per-packet one-way delay: 52.397 ms

Loss rate: 0.21%

-- Flow 1:

Average throughput: 7.82 Mbit/s

95th percentile per-packet one-way delay: 52.298 ms

Loss rate: 0.41%

-- Flow 2:

Average throughput: 7.67 Mbit/s

95th percentile per-packet one-way delay: 52.398 ms

Loss rate: 0.00%

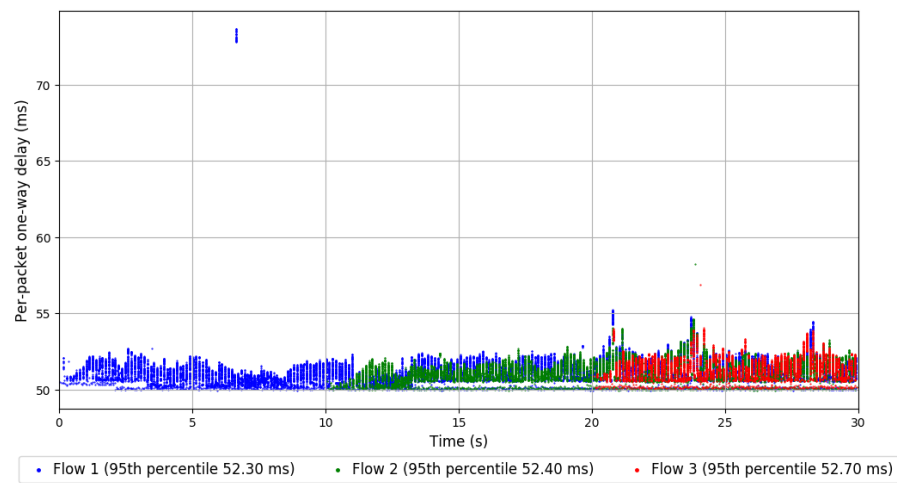
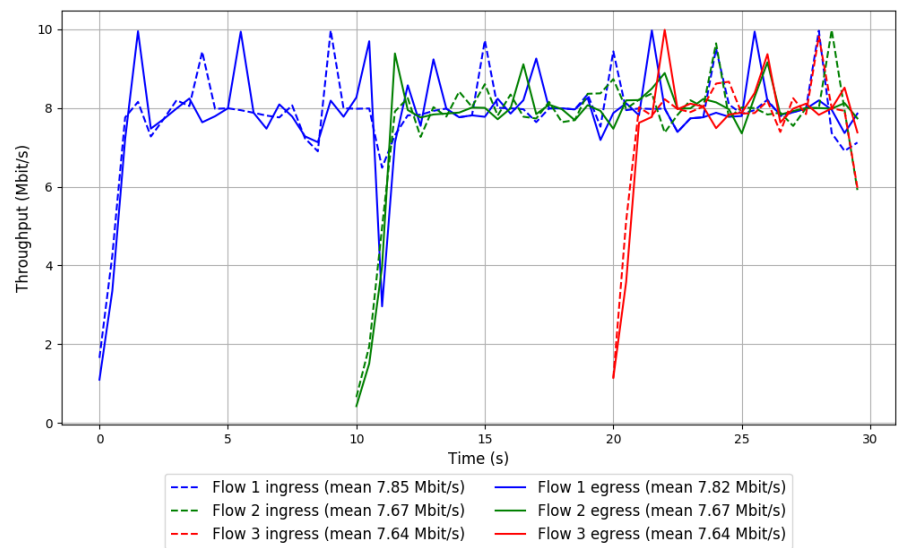
-- Flow 3:

Average throughput: 7.64 Mbit/s

95th percentile per-packet one-way delay: 52.698 ms

Loss rate: 0.00%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-01-09 22:56:09

End at: 2018-01-09 22:56:39

Below is generated by plot.py at 2018-01-10 02:49:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.42 Mbit/s

95th percentile per-packet one-way delay: 52.073 ms

Loss rate: 0.92%

-- Flow 1:

Average throughput: 7.72 Mbit/s

95th percentile per-packet one-way delay: 52.075 ms

Loss rate: 1.53%

-- Flow 2:

Average throughput: 7.82 Mbit/s

95th percentile per-packet one-way delay: 52.061 ms

Loss rate: 0.45%

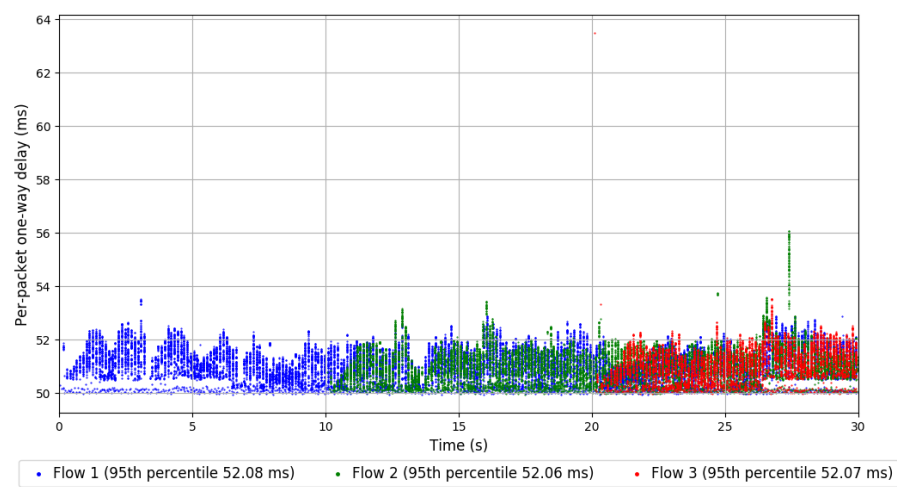
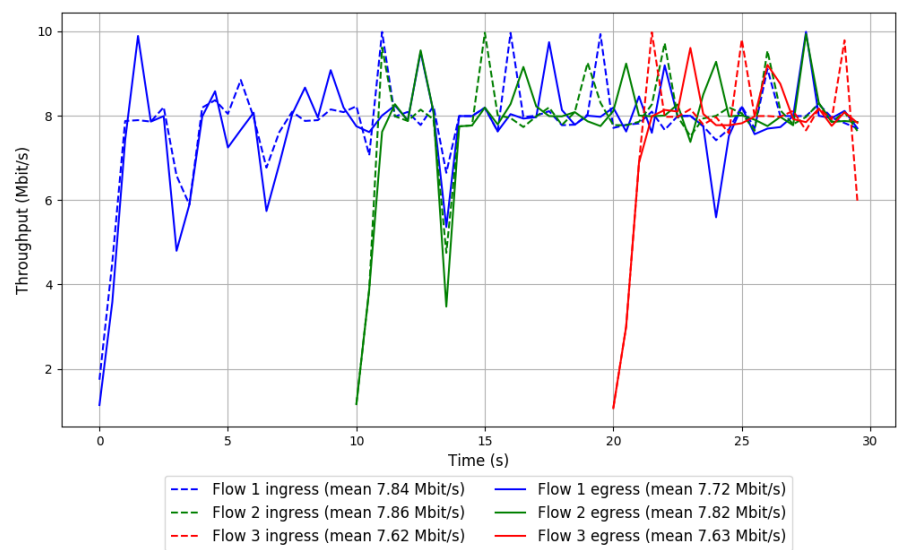
-- Flow 3:

Average throughput: 7.63 Mbit/s

95th percentile per-packet one-way delay: 52.071 ms

Loss rate: 0.00%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-01-09 23:09:55

End at: 2018-01-09 23:10:25

Below is generated by plot.py at 2018-01-10 02:49:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.67 Mbit/s

95th percentile per-packet one-way delay: 52.063 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 7.96 Mbit/s

95th percentile per-packet one-way delay: 52.160 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 7.82 Mbit/s

95th percentile per-packet one-way delay: 52.013 ms

Loss rate: 0.00%

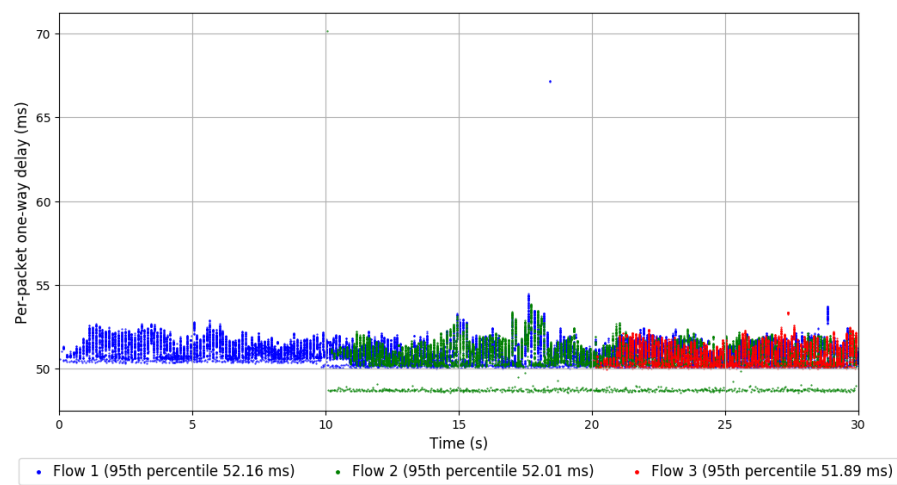
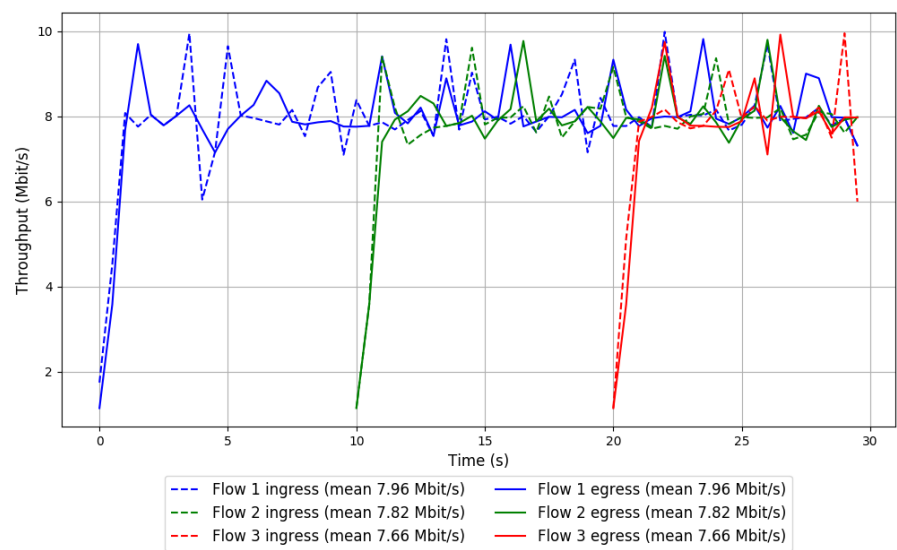
-- Flow 3:

Average throughput: 7.66 Mbit/s

95th percentile per-packet one-way delay: 51.891 ms

Loss rate: 0.00%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-01-09 23:23:46

End at: 2018-01-09 23:24:16

Below is generated by plot.py at 2018-01-10 02:49:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.74 Mbit/s

95th percentile per-packet one-way delay: 52.480 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 7.99 Mbit/s

95th percentile per-packet one-way delay: 52.355 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 7.89 Mbit/s

95th percentile per-packet one-way delay: 52.657 ms

Loss rate: 0.00%

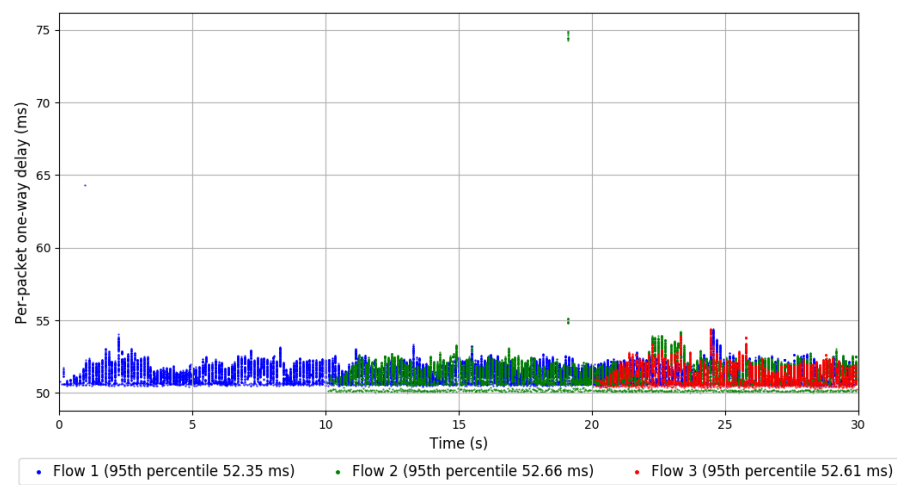
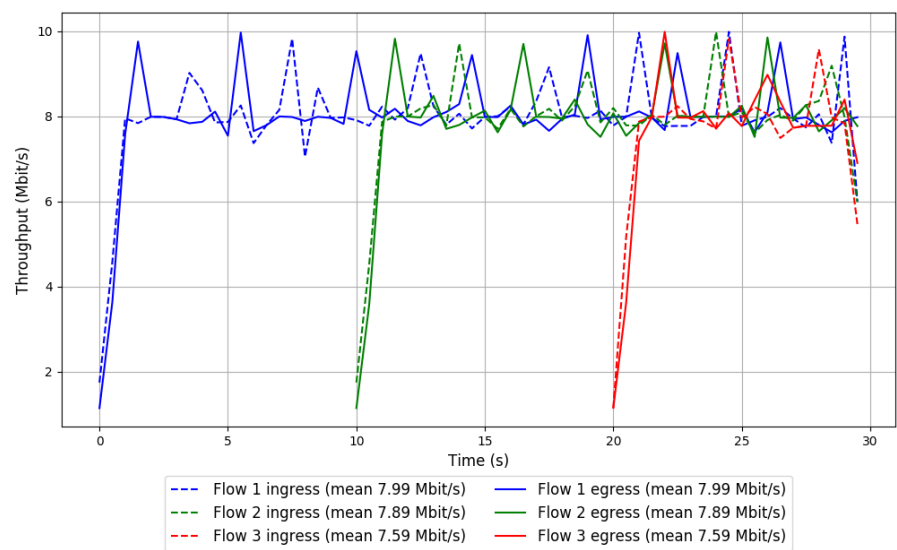
-- Flow 3:

Average throughput: 7.59 Mbit/s

95th percentile per-packet one-way delay: 52.610 ms

Loss rate: 0.00%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-01-09 23:37:15

End at: 2018-01-09 23:37:45

Below is generated by plot.py at 2018-01-10 02:49:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.69 Mbit/s

95th percentile per-packet one-way delay: 52.277 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 7.91 Mbit/s

95th percentile per-packet one-way delay: 52.287 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 7.94 Mbit/s

95th percentile per-packet one-way delay: 52.264 ms

Loss rate: 0.00%

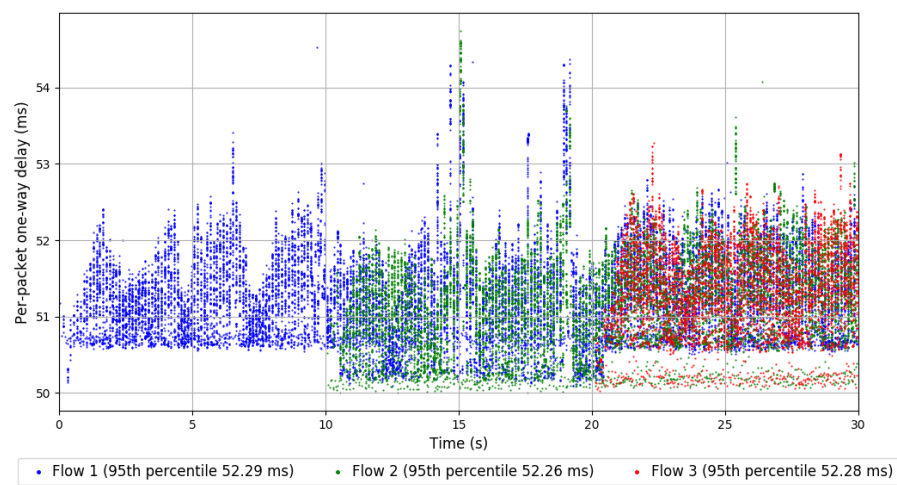
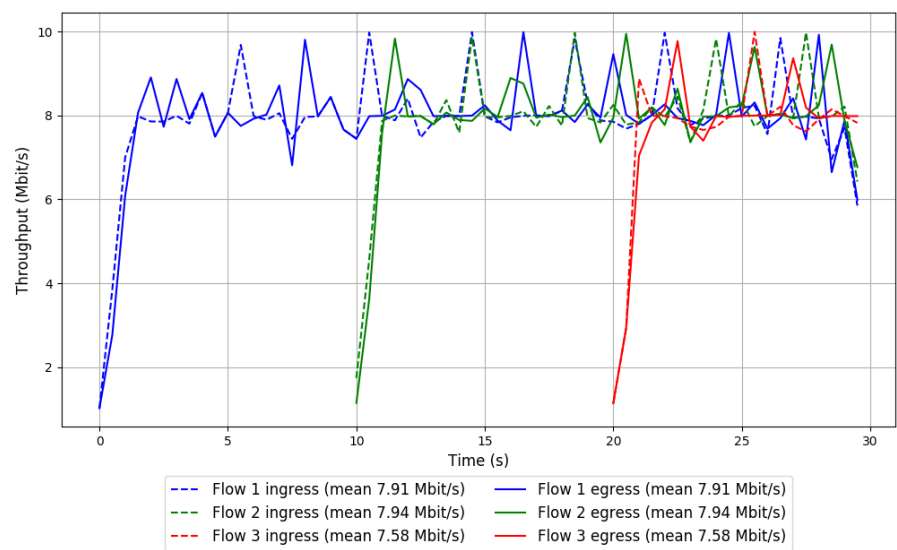
-- Flow 3:

Average throughput: 7.58 Mbit/s

95th percentile per-packet one-way delay: 52.279 ms

Loss rate: 0.00%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-01-09 23:50:58

End at: 2018-01-09 23:51:28

Below is generated by plot.py at 2018-01-10 02:49:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.50 Mbit/s

95th percentile per-packet one-way delay: 52.304 ms

Loss rate: 0.40%

-- Flow 1:

Average throughput: 7.81 Mbit/s

95th percentile per-packet one-way delay: 52.251 ms

Loss rate: 0.75%

-- Flow 2:

Average throughput: 7.92 Mbit/s

95th percentile per-packet one-way delay: 52.347 ms

Loss rate: 0.06%

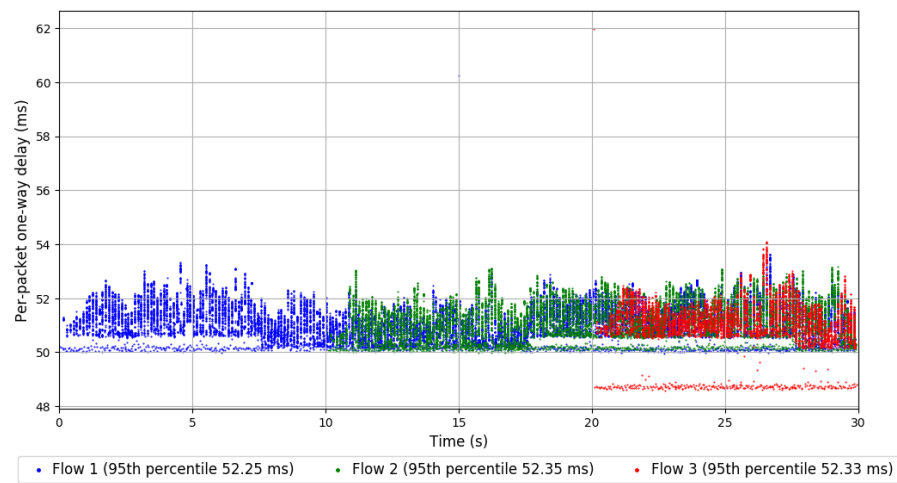
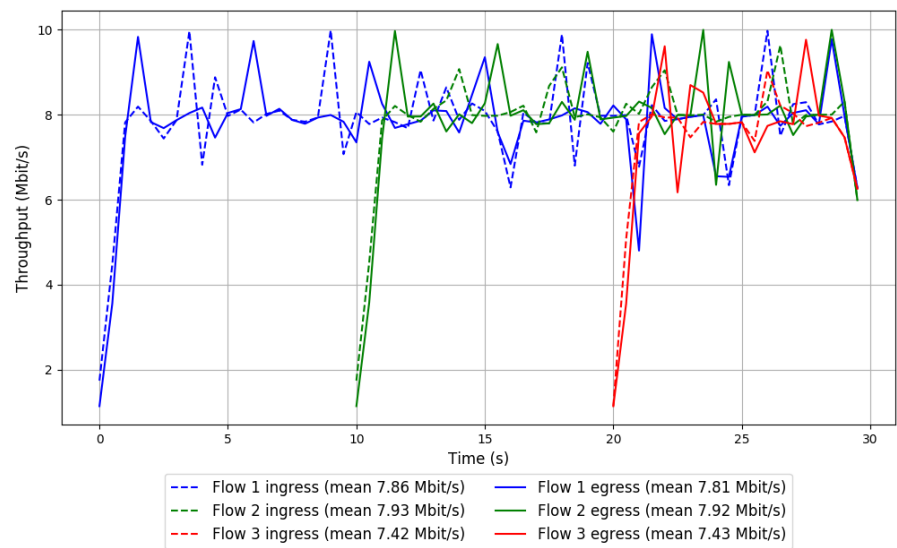
-- Flow 3:

Average throughput: 7.43 Mbit/s

95th percentile per-packet one-way delay: 52.334 ms

Loss rate: 0.00%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-01-10 00:04:32

End at: 2018-01-10 00:05:02

Below is generated by plot.py at 2018-01-10 02:49:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.37 Mbit/s

95th percentile per-packet one-way delay: 52.054 ms

Loss rate: 0.34%

-- Flow 1:

Average throughput: 7.86 Mbit/s

95th percentile per-packet one-way delay: 51.952 ms

Loss rate: 0.30%

-- Flow 2:

Average throughput: 7.53 Mbit/s

95th percentile per-packet one-way delay: 52.238 ms

Loss rate: 0.59%

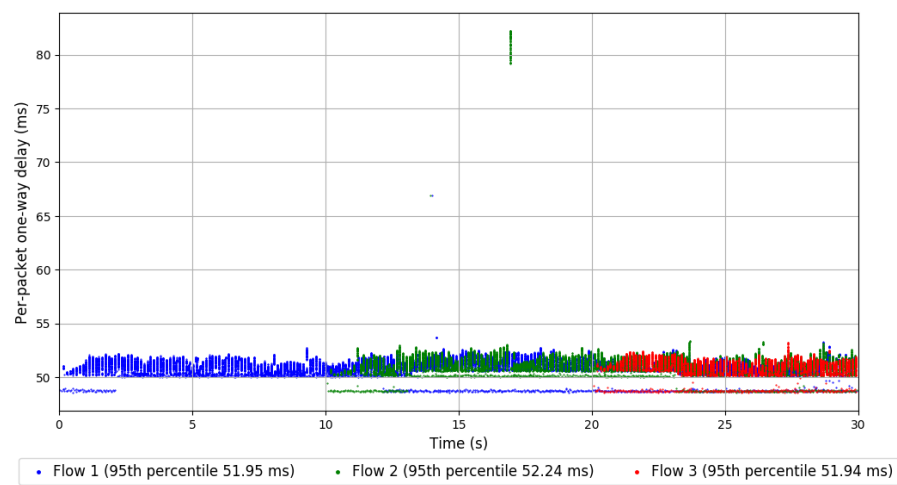
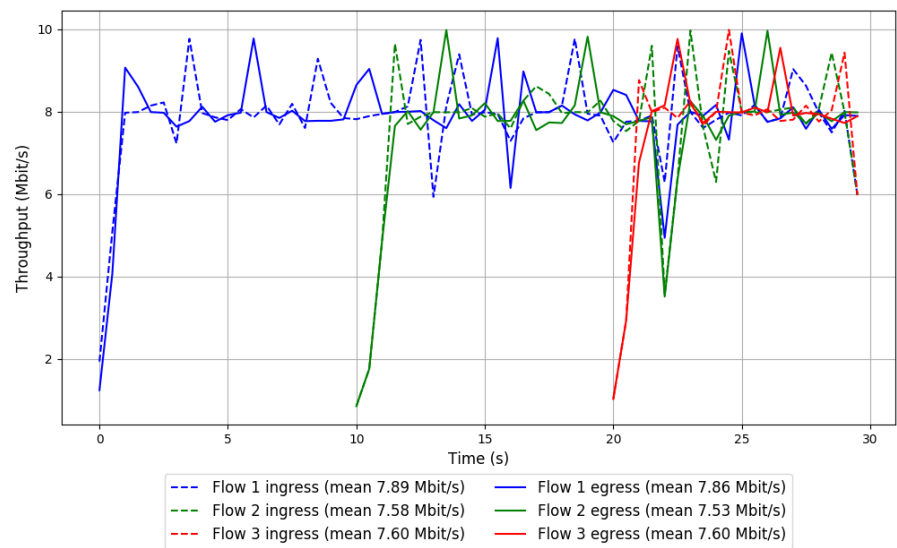
-- Flow 3:

Average throughput: 7.60 Mbit/s

95th percentile per-packet one-way delay: 51.943 ms

Loss rate: 0.00%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-01-10 00:18:21

End at: 2018-01-10 00:18:51

Below is generated by plot.py at 2018-01-10 02:49:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.33 Mbit/s

95th percentile per-packet one-way delay: 52.417 ms

Loss rate: 0.80%

-- Flow 1:

Average throughput: 7.70 Mbit/s

95th percentile per-packet one-way delay: 52.399 ms

Loss rate: 1.15%

-- Flow 2:

Average throughput: 7.72 Mbit/s

95th percentile per-packet one-way delay: 52.458 ms

Loss rate: 0.65%

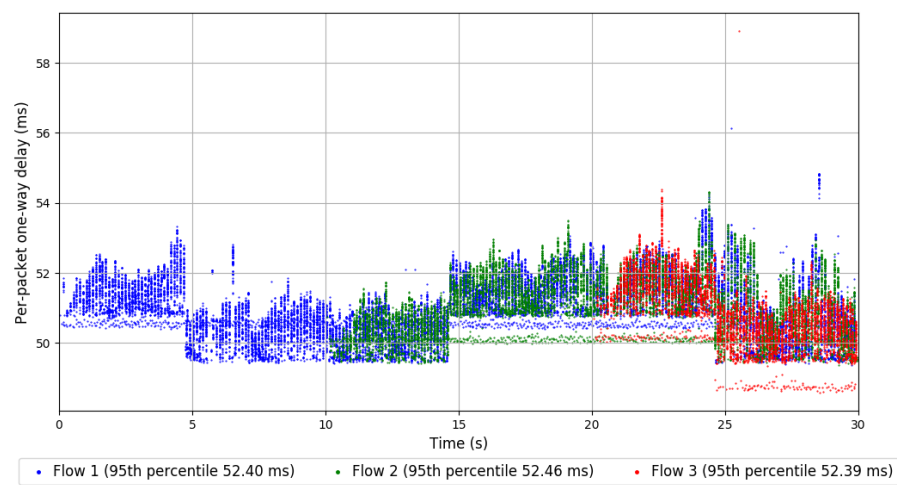
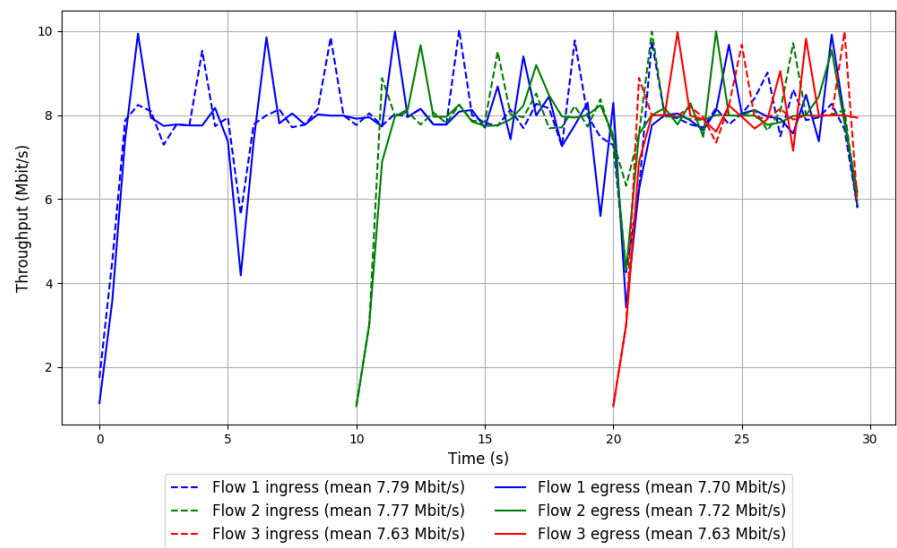
-- Flow 3:

Average throughput: 7.63 Mbit/s

95th percentile per-packet one-way delay: 52.388 ms

Loss rate: 0.00%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-01-10 00:32:10

End at: 2018-01-10 00:32:40

Below is generated by plot.py at 2018-01-10 02:49:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.08 Mbit/s

95th percentile per-packet one-way delay: 52.322 ms

Loss rate: 1.21%

-- Flow 1:

Average throughput: 7.69 Mbit/s

95th percentile per-packet one-way delay: 52.369 ms

Loss rate: 1.17%

-- Flow 2:

Average throughput: 7.67 Mbit/s

95th percentile per-packet one-way delay: 52.307 ms

Loss rate: 0.68%

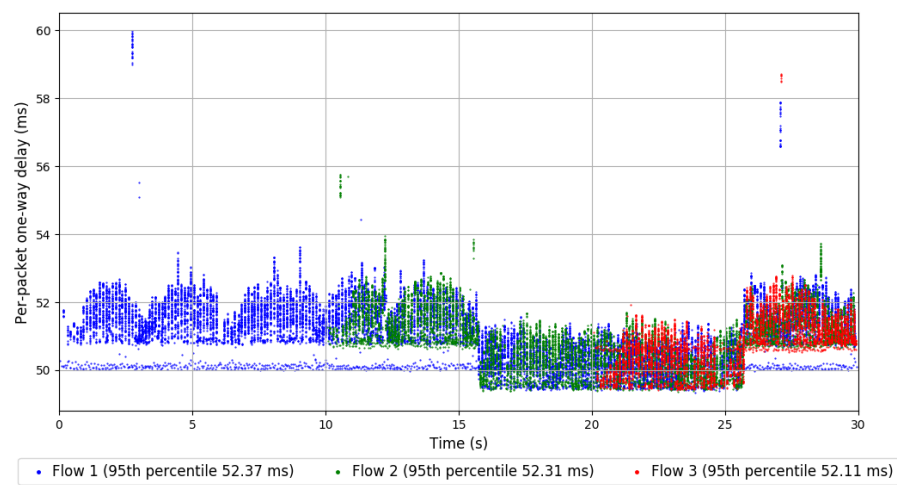
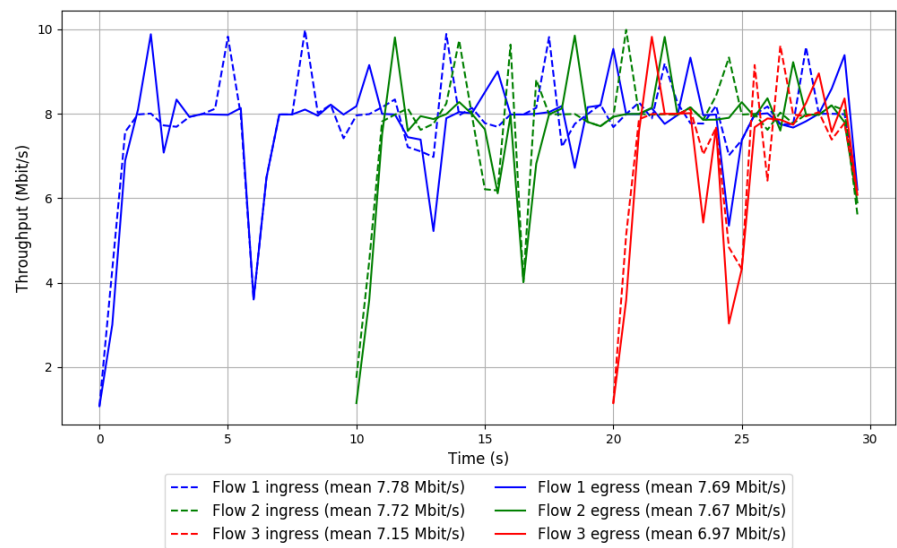
-- Flow 3:

Average throughput: 6.97 Mbit/s

95th percentile per-packet one-way delay: 52.111 ms

Loss rate: 2.50%

Run 10: Report of Sprout — Data Link

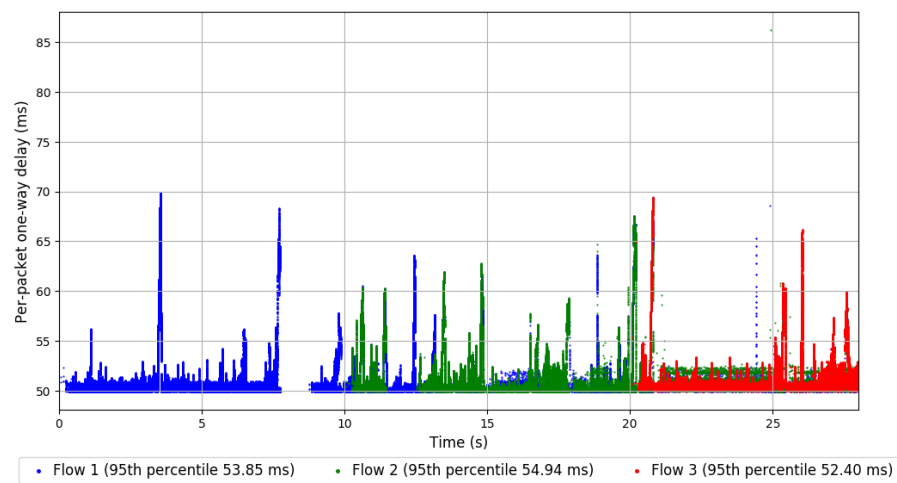
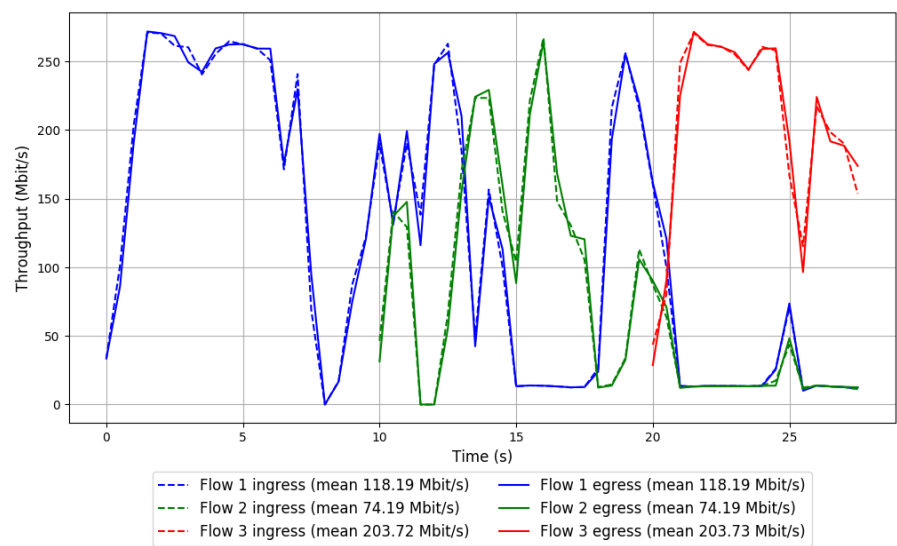


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-01-09 22:26:13
End at: 2018-01-09 22:26:43

# Below is generated by plot.py at 2018-01-10 02:53:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 223.54 Mbit/s
95th percentile per-packet one-way delay: 53.639 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 118.19 Mbit/s
95th percentile per-packet one-way delay: 53.855 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 74.19 Mbit/s
95th percentile per-packet one-way delay: 54.944 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 203.73 Mbit/s
95th percentile per-packet one-way delay: 52.399 ms
Loss rate: 0.00%
```


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

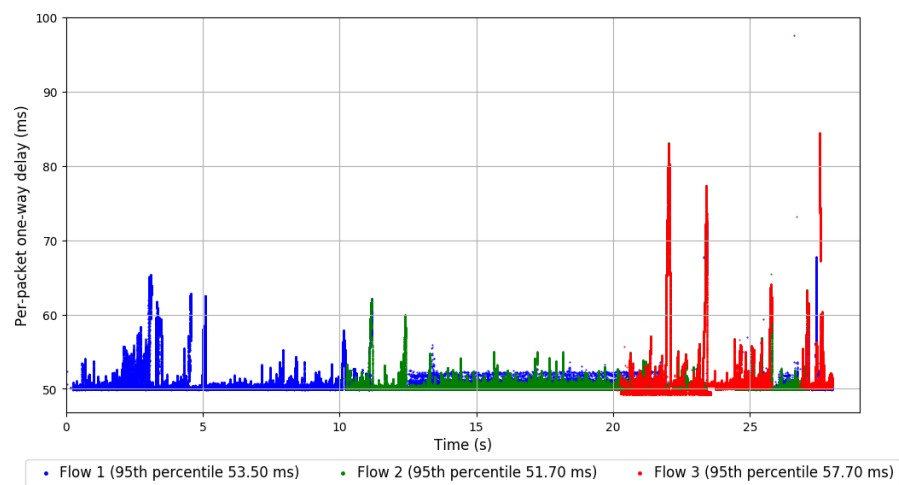
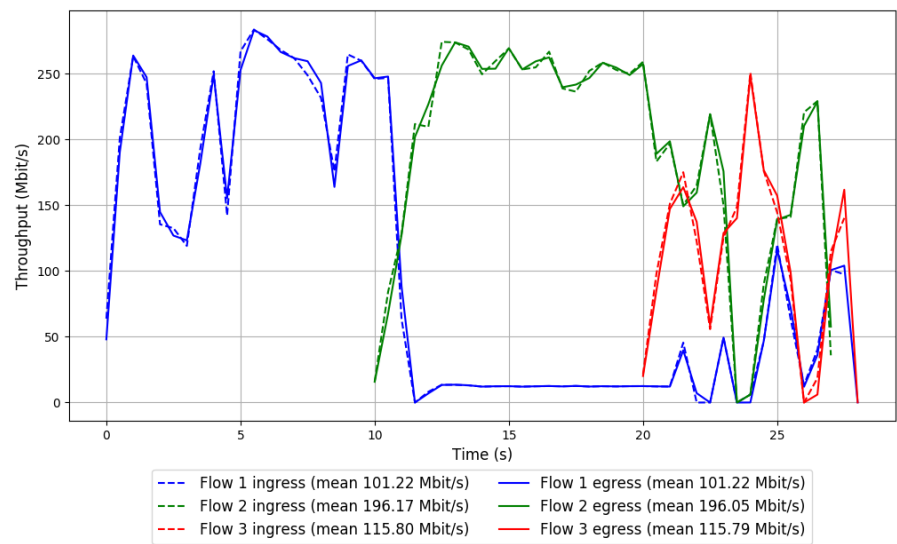


```
Run 2: Statistics of TaoVA-100x

Start at: 2018-01-09 22:39:50
End at: 2018-01-09 22:40:20

# Below is generated by plot.py at 2018-01-10 02:54:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 253.91 Mbit/s
95th percentile per-packet one-way delay: 52.985 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 101.22 Mbit/s
95th percentile per-packet one-way delay: 53.504 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 196.05 Mbit/s
95th percentile per-packet one-way delay: 51.699 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 115.79 Mbit/s
95th percentile per-packet one-way delay: 57.699 ms
Loss rate: 0.00%
```

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

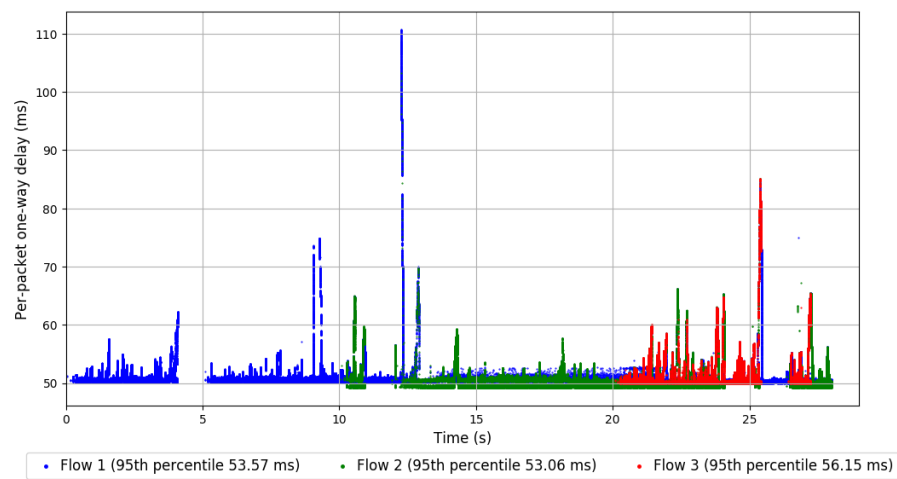
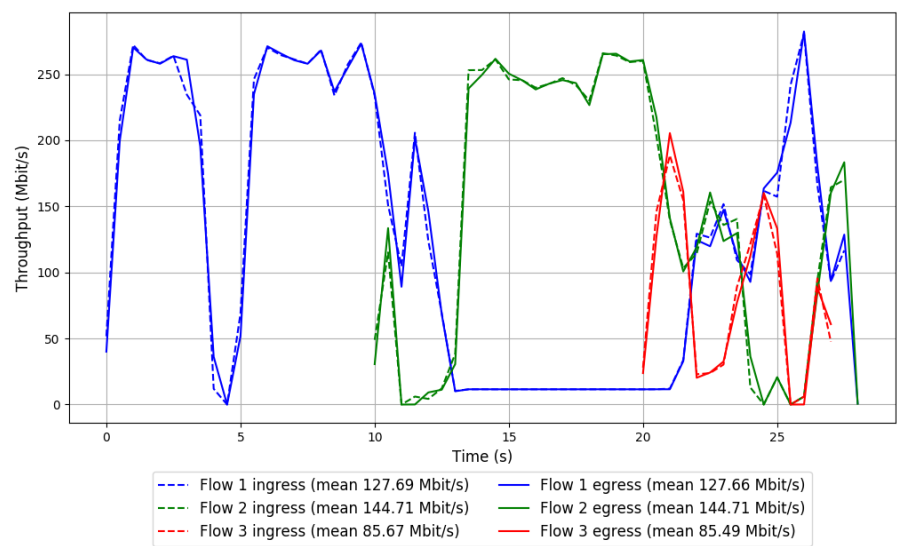


```
Run 3: Statistics of TaoVA-100x

Start at: 2018-01-09 22:53:35
End at: 2018-01-09 22:54:05

# Below is generated by plot.py at 2018-01-10 02:54:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 242.47 Mbit/s
95th percentile per-packet one-way delay: 53.713 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 127.66 Mbit/s
95th percentile per-packet one-way delay: 53.566 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 144.71 Mbit/s
95th percentile per-packet one-way delay: 53.062 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 85.49 Mbit/s
95th percentile per-packet one-way delay: 56.150 ms
Loss rate: 0.00%
```

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

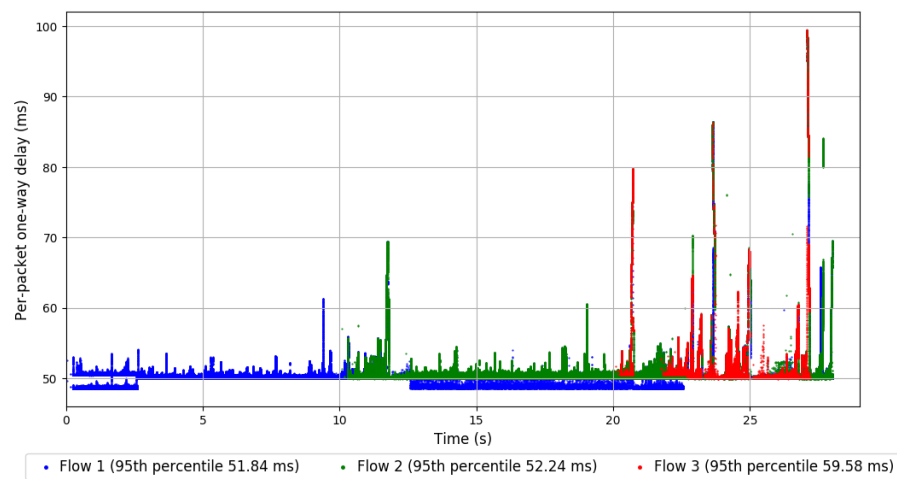
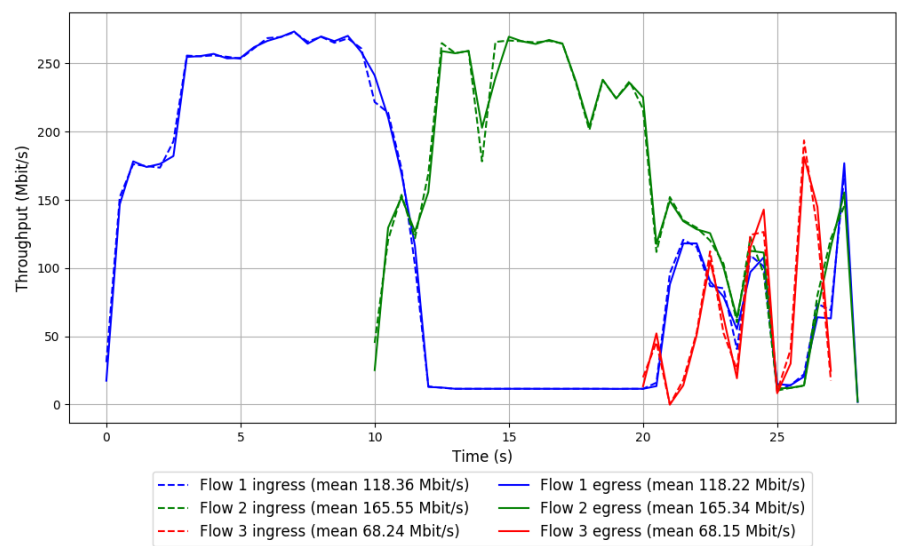


```
Run 4: Statistics of TaoVA-100x

Start at: 2018-01-09 23:07:21
End at: 2018-01-09 23:07:51

# Below is generated by plot.py at 2018-01-10 02:54:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 241.53 Mbit/s
95th percentile per-packet one-way delay: 52.504 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 118.22 Mbit/s
95th percentile per-packet one-way delay: 51.835 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 165.34 Mbit/s
95th percentile per-packet one-way delay: 52.242 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 68.15 Mbit/s
95th percentile per-packet one-way delay: 59.582 ms
Loss rate: 0.01%
```

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

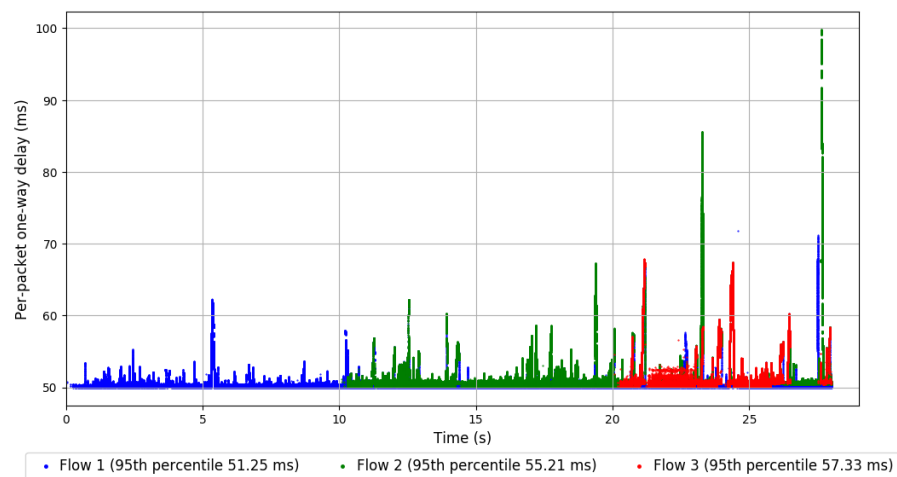
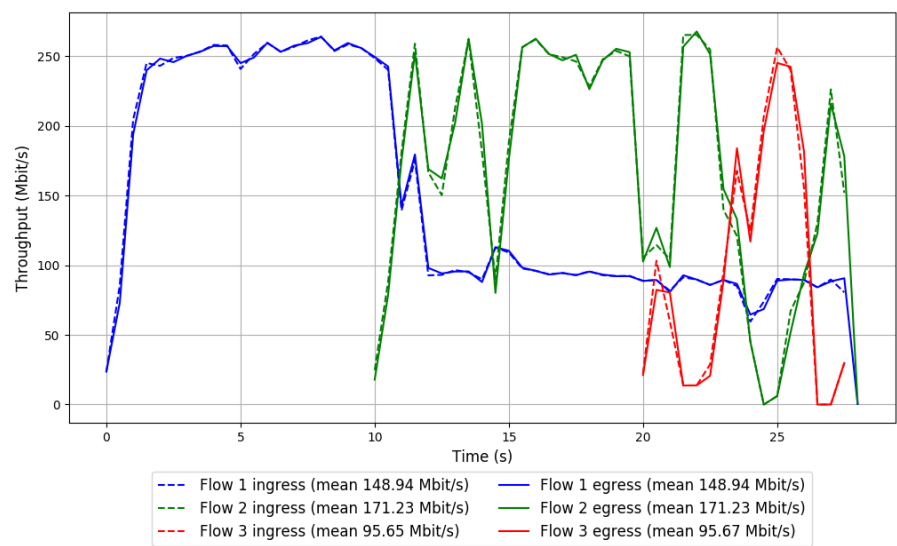


```
Run 5: Statistics of TaoVA-100x

Start at: 2018-01-09 23:21:08
End at: 2018-01-09 23:21:38

# Below is generated by plot.py at 2018-01-10 02:55:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 285.84 Mbit/s
95th percentile per-packet one-way delay: 53.596 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 148.94 Mbit/s
95th percentile per-packet one-way delay: 51.247 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 171.23 Mbit/s
95th percentile per-packet one-way delay: 55.209 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 95.67 Mbit/s
95th percentile per-packet one-way delay: 57.332 ms
Loss rate: 0.00%
```


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



Run 6: Statistics of TaoVA-100x

Start at: 2018-01-09 23:34:48

End at: 2018-01-09 23:35:18

Below is generated by plot.py at 2018-01-10 02:55:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 198.61 Mbit/s

95th percentile per-packet one-way delay: 53.618 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 157.55 Mbit/s

95th percentile per-packet one-way delay: 52.448 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 27.61 Mbit/s

95th percentile per-packet one-way delay: 57.725 ms

Loss rate: 0.03%

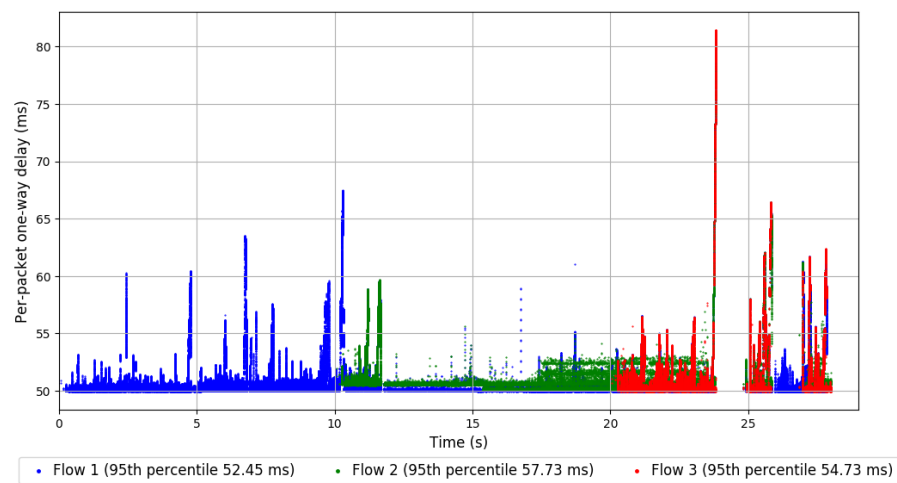
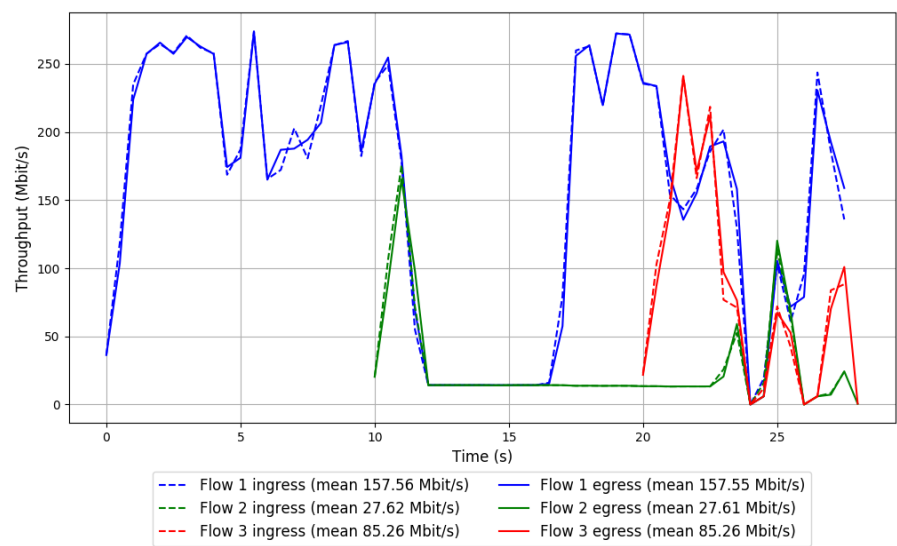
-- Flow 3:

Average throughput: 85.26 Mbit/s

95th percentile per-packet one-way delay: 54.734 ms

Loss rate: 0.02%

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

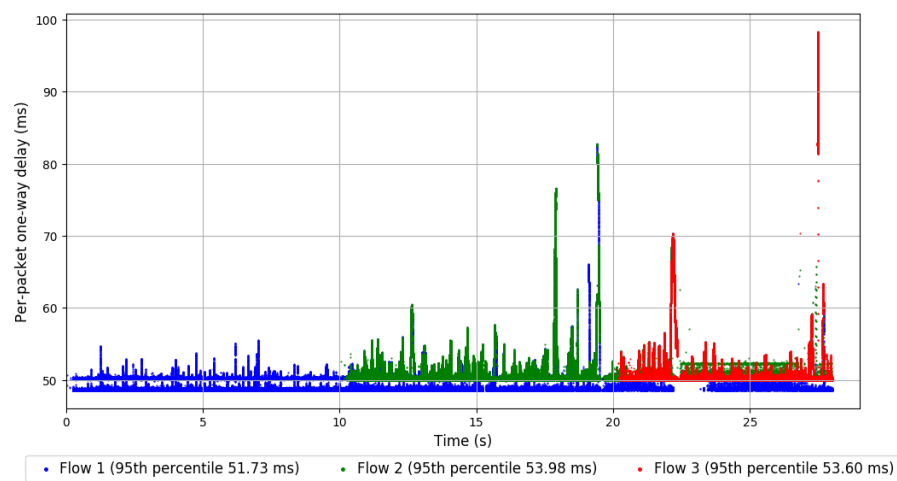
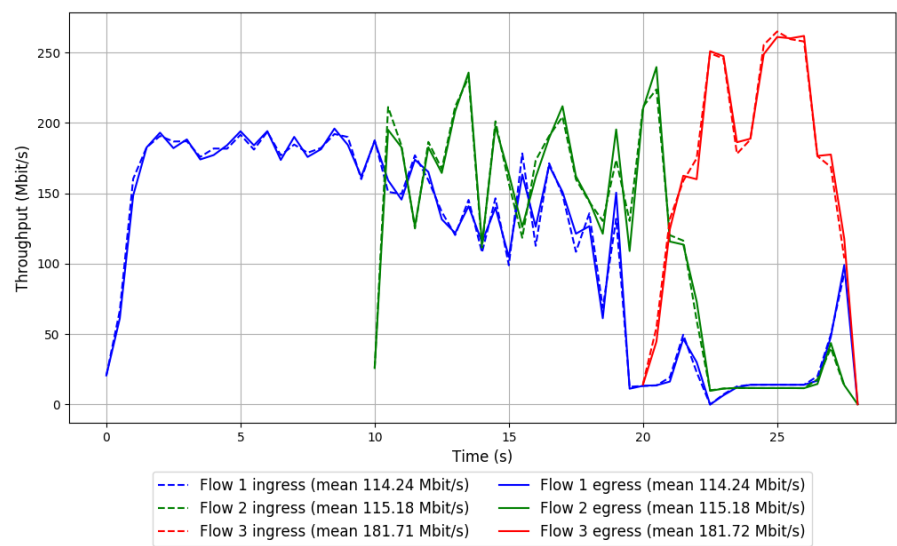


```
Run 7: Statistics of TaoVA-100x

Start at: 2018-01-09 23:48:25
End at: 2018-01-09 23:48:55

# Below is generated by plot.py at 2018-01-10 02:56:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 239.73 Mbit/s
95th percentile per-packet one-way delay: 52.817 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 114.24 Mbit/s
95th percentile per-packet one-way delay: 51.727 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 115.18 Mbit/s
95th percentile per-packet one-way delay: 53.980 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 181.72 Mbit/s
95th percentile per-packet one-way delay: 53.605 ms
Loss rate: 0.00%
```

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

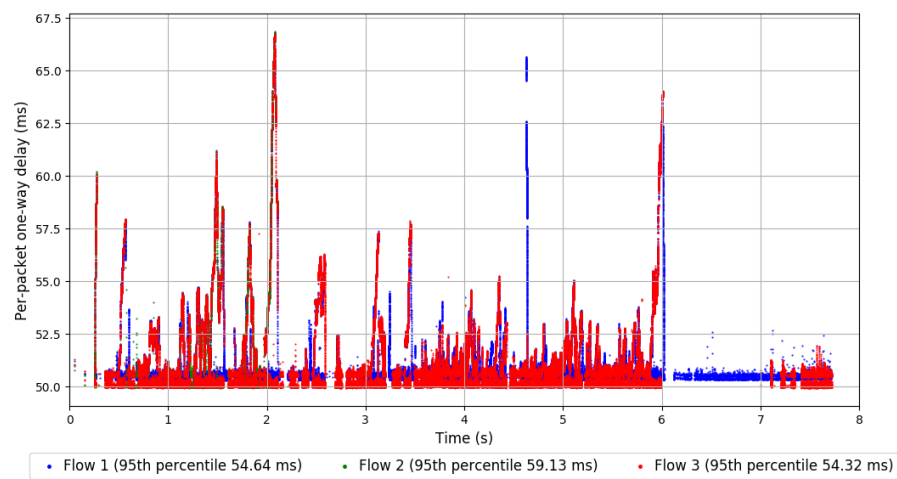
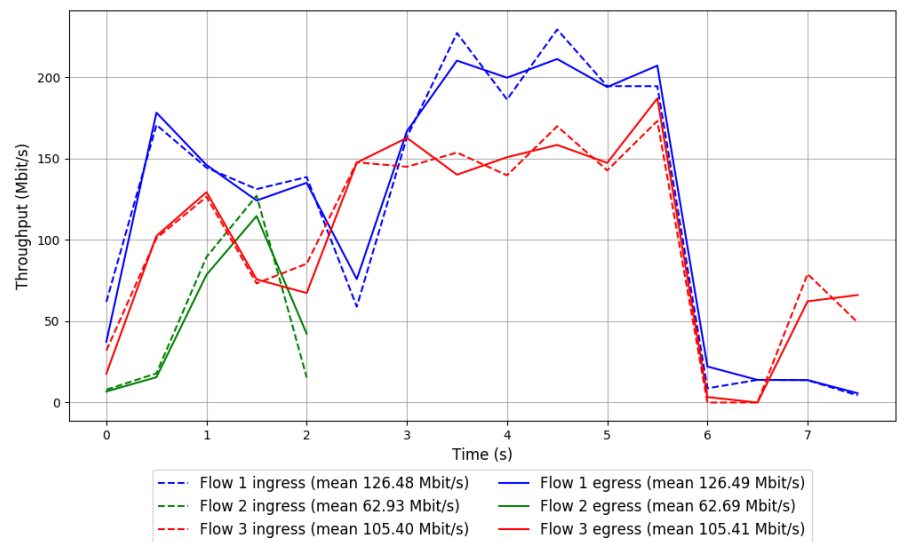


Run 8: Statistics of TaoVA-100x

Start at: 2018-01-10 00:02:14

End at: 2018-01-10 00:02:44

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

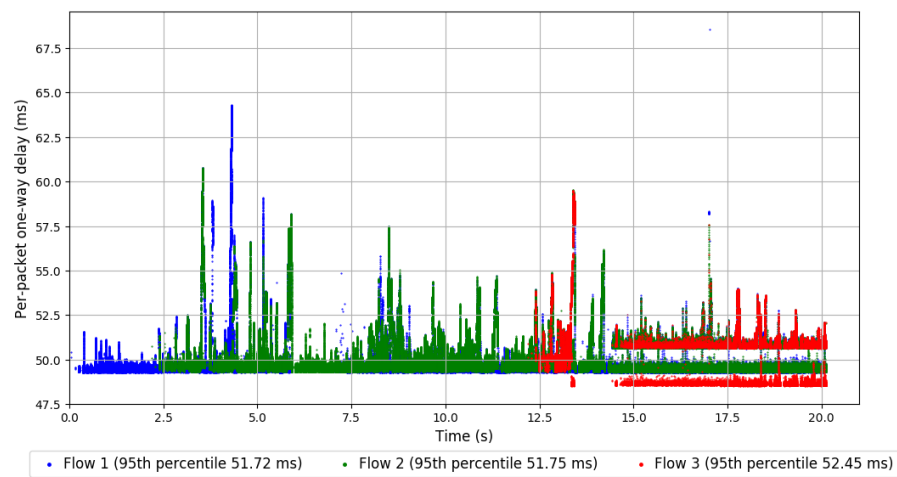
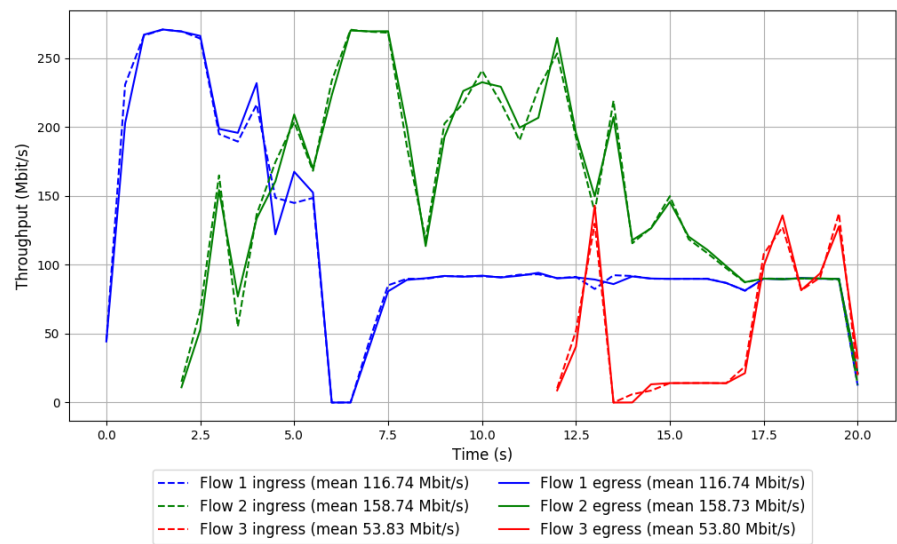


Run 9: Statistics of TaoVA-100x

Start at: 2018-01-10 00:15:51

End at: 2018-01-10 00:16:21

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

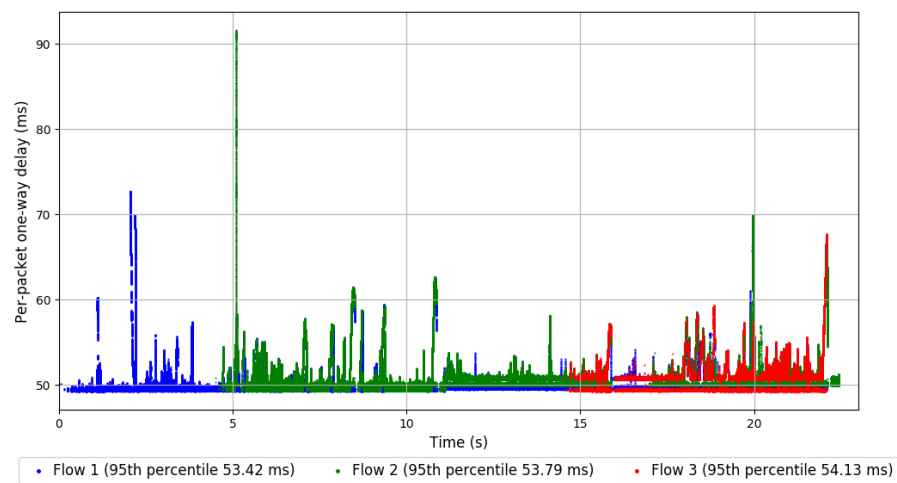
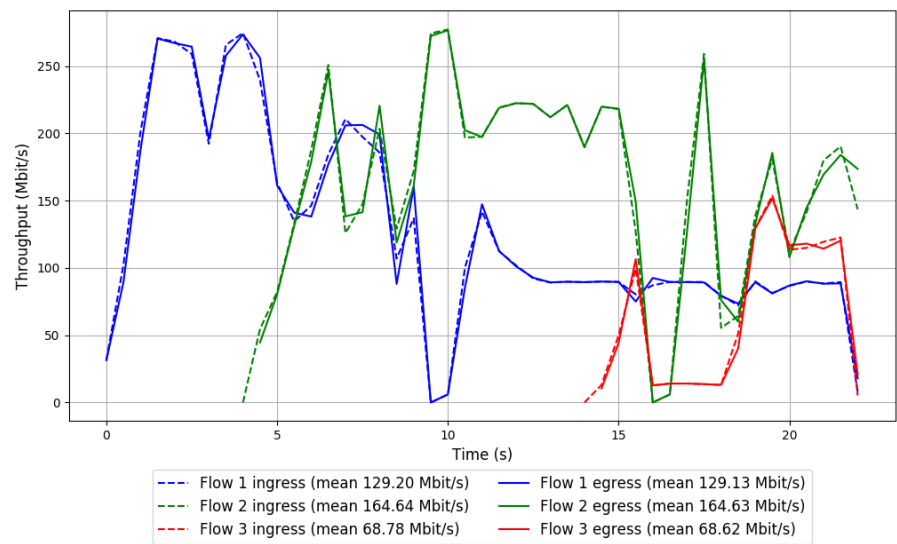


Run 10: Statistics of TaoVA-100x

Start at: 2018-01-10 00:29:37

End at: 2018-01-10 00:30:07

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



Run 1: Statistics of TCP Vegas

Start at: 2018-01-09 22:30:08

End at: 2018-01-09 22:30:38

Below is generated by plot.py at 2018-01-10 02:59:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 145.13 Mbit/s

95th percentile per-packet one-way delay: 52.689 ms

Loss rate: 0.20%

-- Flow 1:

Average throughput: 77.00 Mbit/s

95th percentile per-packet one-way delay: 52.516 ms

Loss rate: 0.36%

-- Flow 2:

Average throughput: 30.70 Mbit/s

95th percentile per-packet one-way delay: 52.373 ms

Loss rate: 0.01%

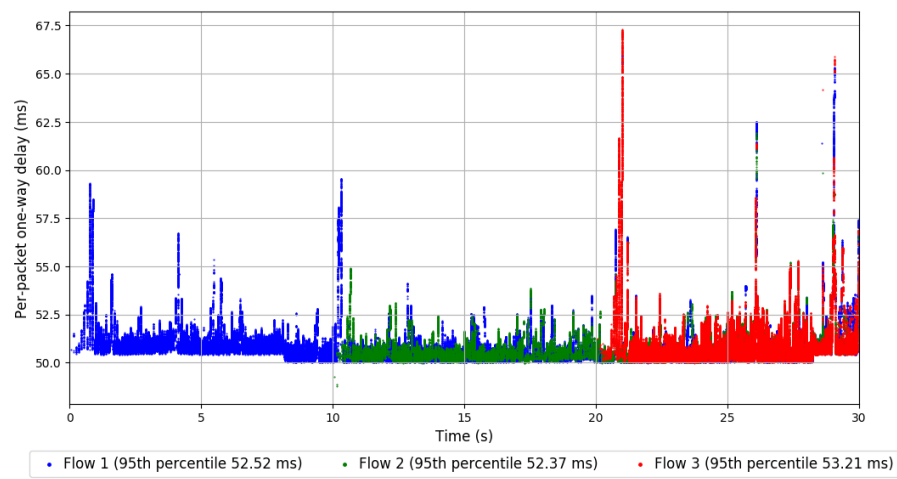
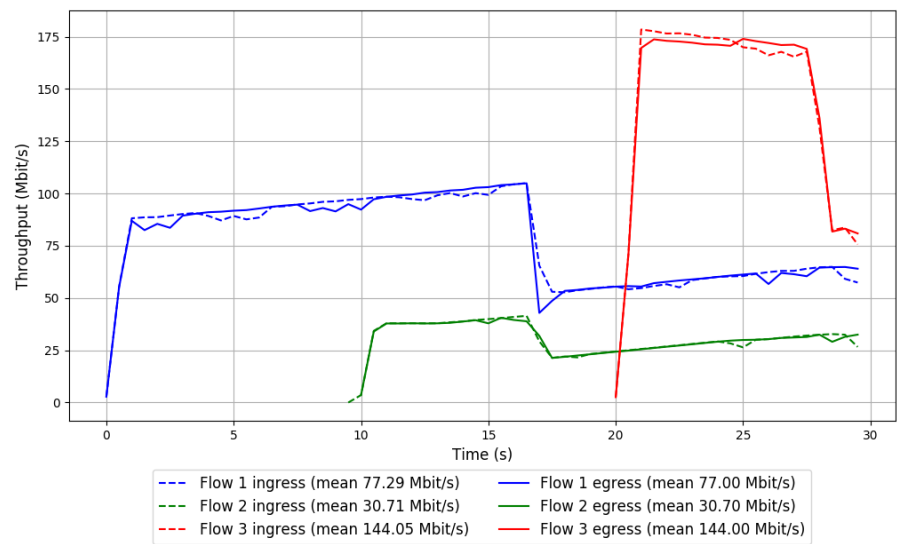
-- Flow 3:

Average throughput: 144.00 Mbit/s

95th percentile per-packet one-way delay: 53.206 ms

Loss rate: 0.04%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-01-09 22:43:45

End at: 2018-01-09 22:44:15

Below is generated by plot.py at 2018-01-10 02:59:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 136.68 Mbit/s

95th percentile per-packet one-way delay: 61.459 ms

Loss rate: 0.33%

-- Flow 1:

Average throughput: 38.70 Mbit/s

95th percentile per-packet one-way delay: 58.501 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 144.47 Mbit/s

95th percentile per-packet one-way delay: 61.916 ms

Loss rate: 0.46%

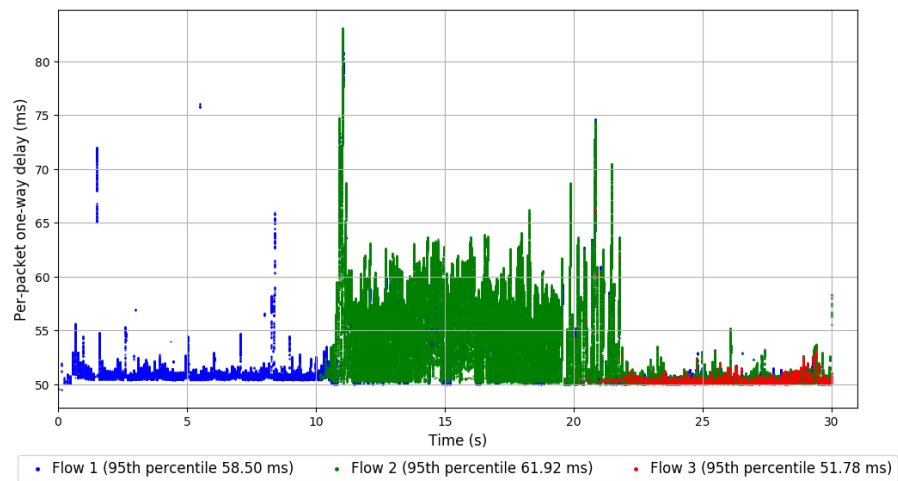
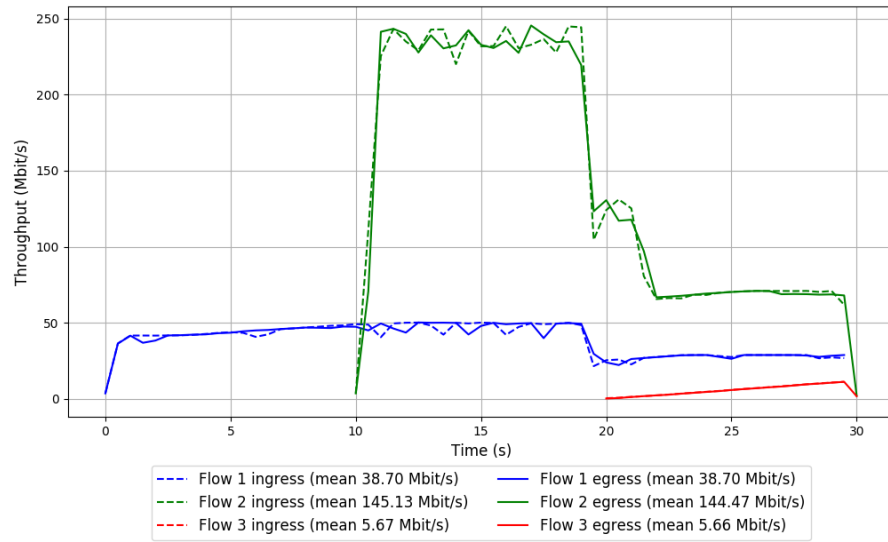
-- Flow 3:

Average throughput: 5.66 Mbit/s

95th percentile per-packet one-way delay: 51.785 ms

Loss rate: 0.19%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-01-09 22:57:29

End at: 2018-01-09 22:57:59

Below is generated by plot.py at 2018-01-10 02:59:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 61.66 Mbit/s

95th percentile per-packet one-way delay: 52.527 ms

Loss rate: 0.40%

-- Flow 1:

Average throughput: 42.93 Mbit/s

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

Loss rate: 0.16%

-- Flow 2:

Average throughput: 20.07 Mbit/s

95th percentile per-packet one-way delay: 52.953 ms

Loss rate: 1.08%

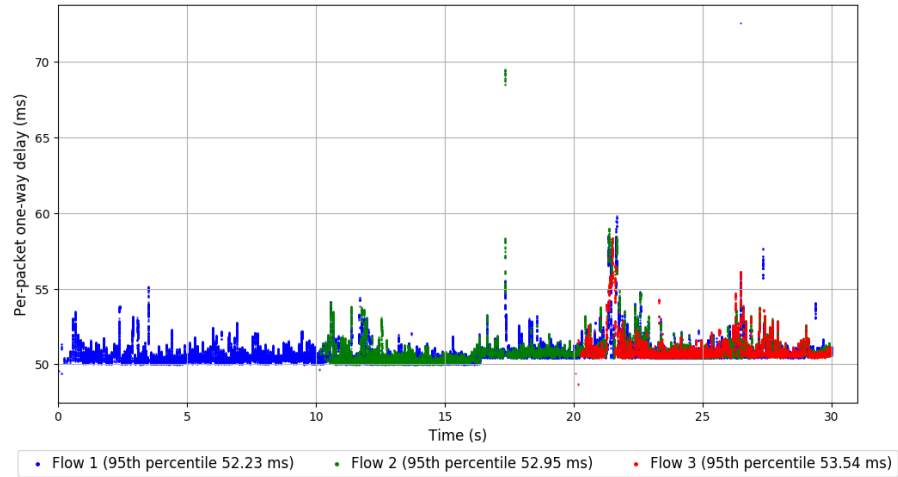
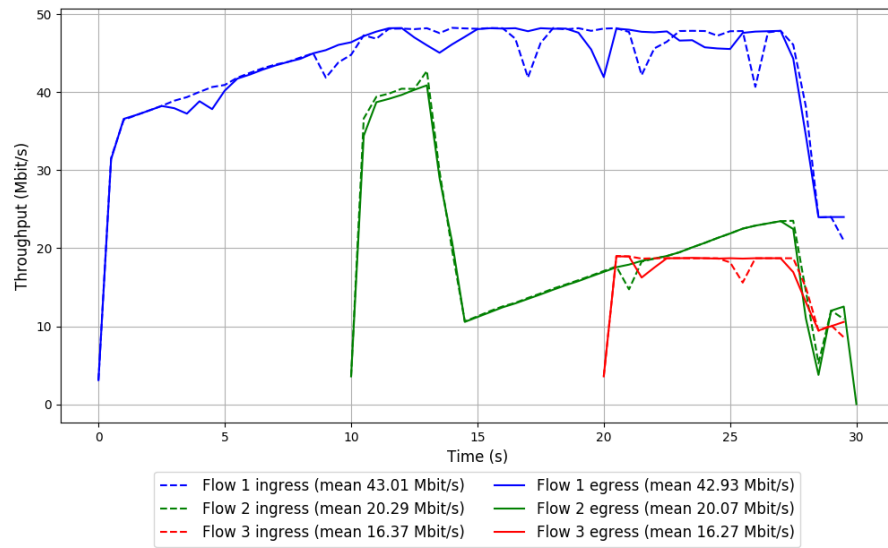
-- Flow 3:

Average throughput: 16.27 Mbit/s

95th percentile per-packet one-way delay: 53.539 ms

Loss rate: 0.58%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-01-09 23:11:15

End at: 2018-01-09 23:11:45

Below is generated by plot.py at 2018-01-10 02:59:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 174.69 Mbit/s

95th percentile per-packet one-way delay: 60.001 ms

Loss rate: 0.21%

-- Flow 1:

Average throughput: 79.56 Mbit/s

95th percentile per-packet one-way delay: 56.895 ms

Loss rate: 0.11%

-- Flow 2:

Average throughput: 105.82 Mbit/s

95th percentile per-packet one-way delay: 61.946 ms

Loss rate: 0.41%

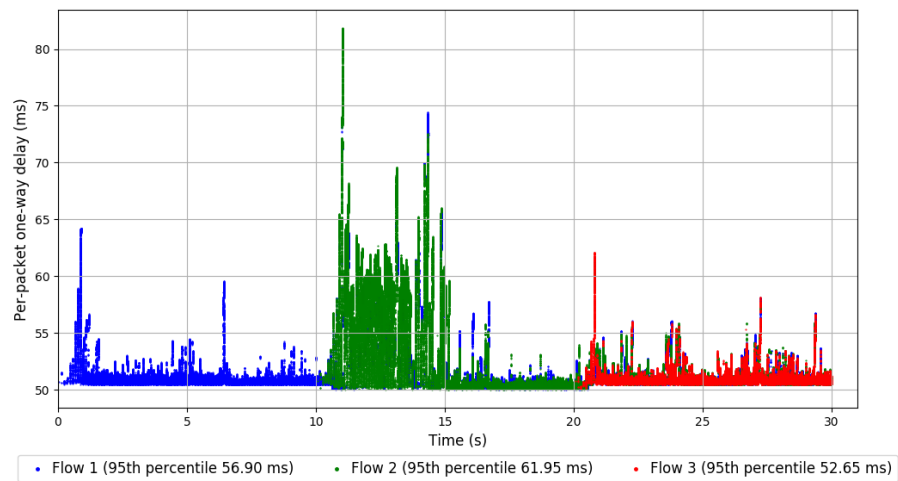
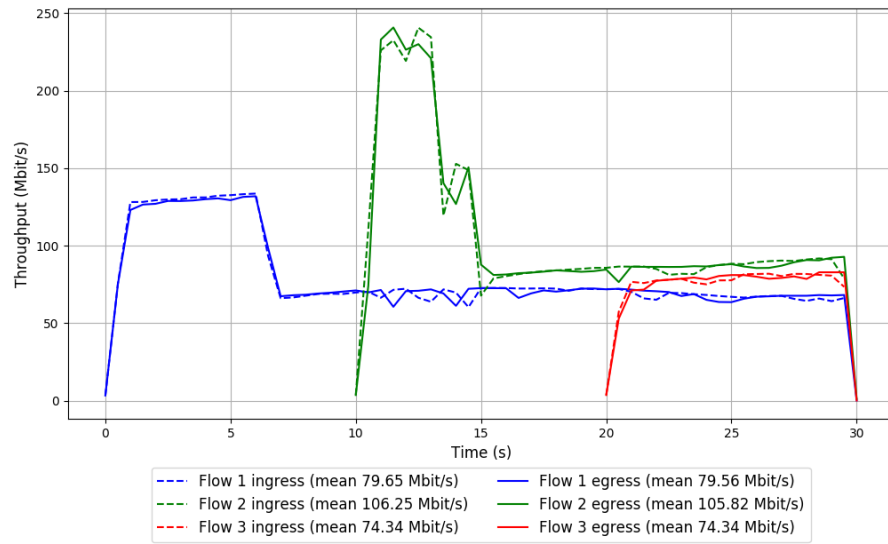
-- Flow 3:

Average throughput: 74.34 Mbit/s

95th percentile per-packet one-way delay: 52.650 ms

Loss rate: 0.00%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-01-09 23:25:07

End at: 2018-01-09 23:25:37

Below is generated by plot.py at 2018-01-10 02:59:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 163.69 Mbit/s

95th percentile per-packet one-way delay: 63.057 ms

Loss rate: 0.32%

-- Flow 1:

Average throughput: 56.43 Mbit/s

95th percentile per-packet one-way delay: 58.542 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 60.96 Mbit/s

95th percentile per-packet one-way delay: 60.097 ms

Loss rate: 0.47%

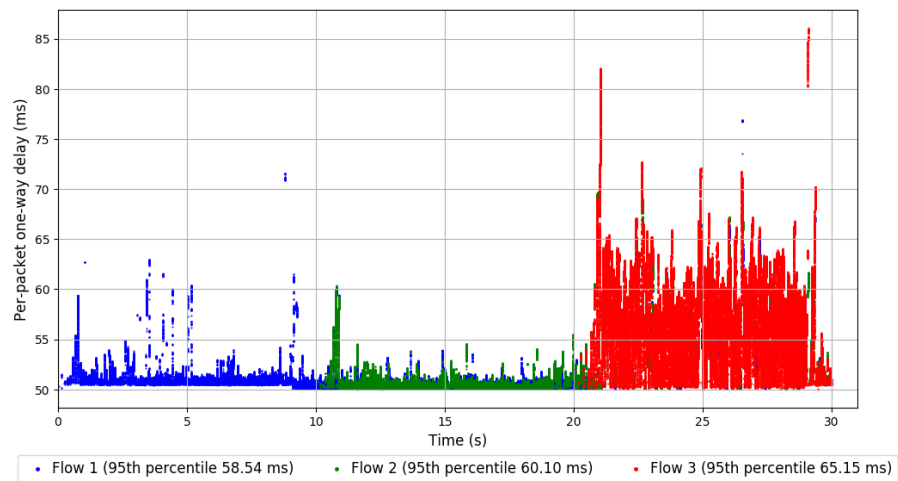
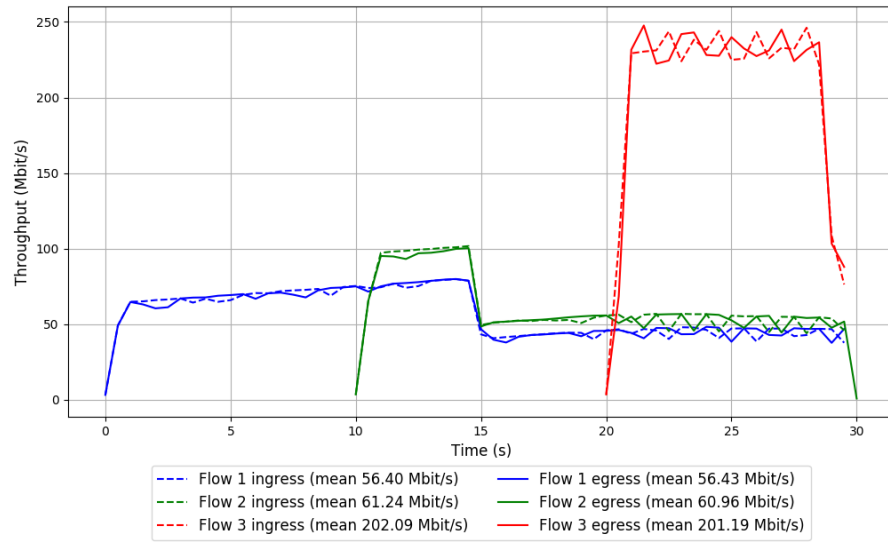
-- Flow 3:

Average throughput: 201.19 Mbit/s

95th percentile per-packet one-way delay: 65.152 ms

Loss rate: 0.45%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-01-09 23:38:36

End at: 2018-01-09 23:39:06

Below is generated by plot.py at 2018-01-10 02:59:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 143.72 Mbit/s

95th percentile per-packet one-way delay: 60.394 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 93.32 Mbit/s

95th percentile per-packet one-way delay: 60.983 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 37.33 Mbit/s

95th percentile per-packet one-way delay: 52.204 ms

Loss rate: 0.55%

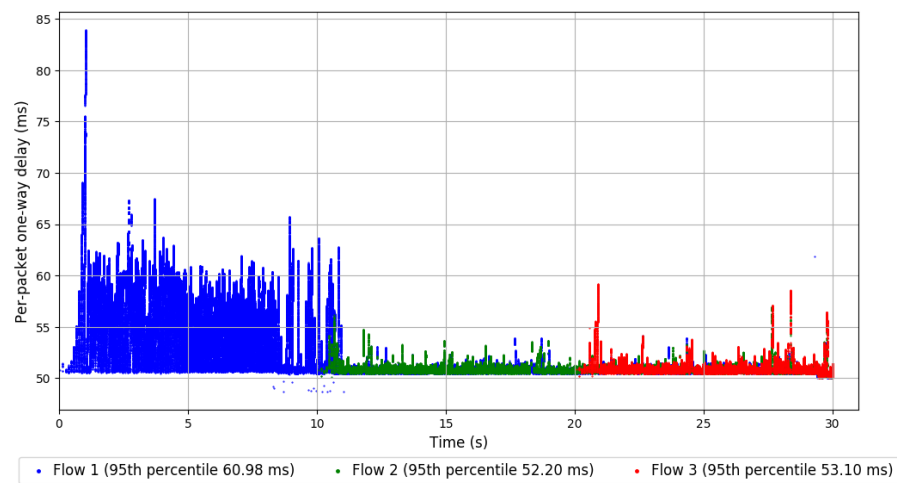
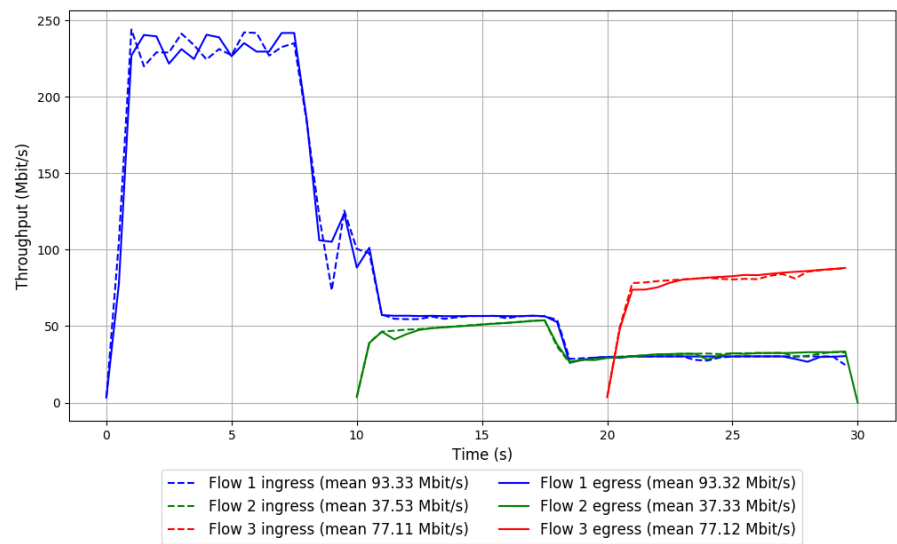
-- Flow 3:

Average throughput: 77.12 Mbit/s

95th percentile per-packet one-way delay: 53.104 ms

Loss rate: 0.00%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-01-09 23:52:19

End at: 2018-01-09 23:52:49

Below is generated by plot.py at 2018-01-10 02:59:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 228.21 Mbit/s

95th percentile per-packet one-way delay: 53.714 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 112.72 Mbit/s

95th percentile per-packet one-way delay: 53.237 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 136.17 Mbit/s

95th percentile per-packet one-way delay: 54.148 ms

Loss rate: 0.00%

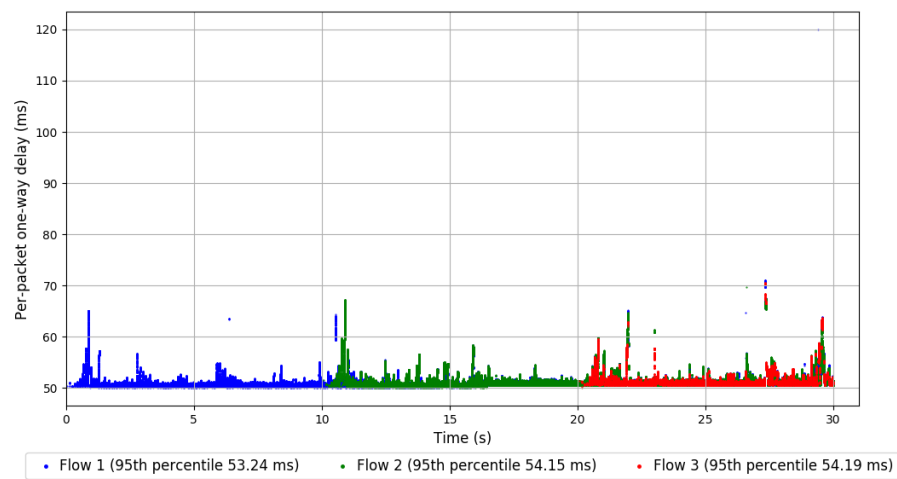
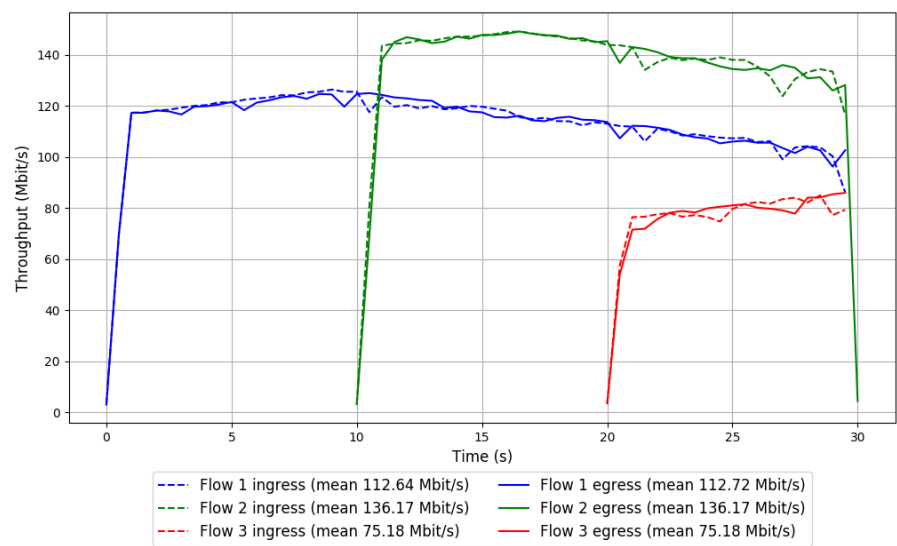
-- Flow 3:

Average throughput: 75.18 Mbit/s

95th percentile per-packet one-way delay: 54.191 ms

Loss rate: 0.00%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-01-10 00:05:56

End at: 2018-01-10 00:06:26

Below is generated by plot.py at 2018-01-10 02:59:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 99.09 Mbit/s

95th percentile per-packet one-way delay: 52.344 ms

Loss rate: 0.21%

-- Flow 1:

Average throughput: 47.62 Mbit/s

95th percentile per-packet one-way delay: 52.232 ms

Loss rate: 0.22%

-- Flow 2:

Average throughput: 53.43 Mbit/s

95th percentile per-packet one-way delay: 52.429 ms

Loss rate: 0.23%

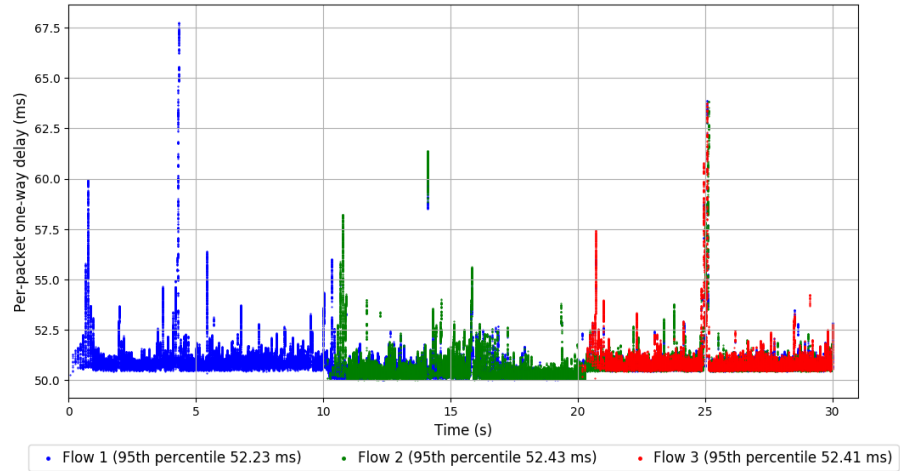
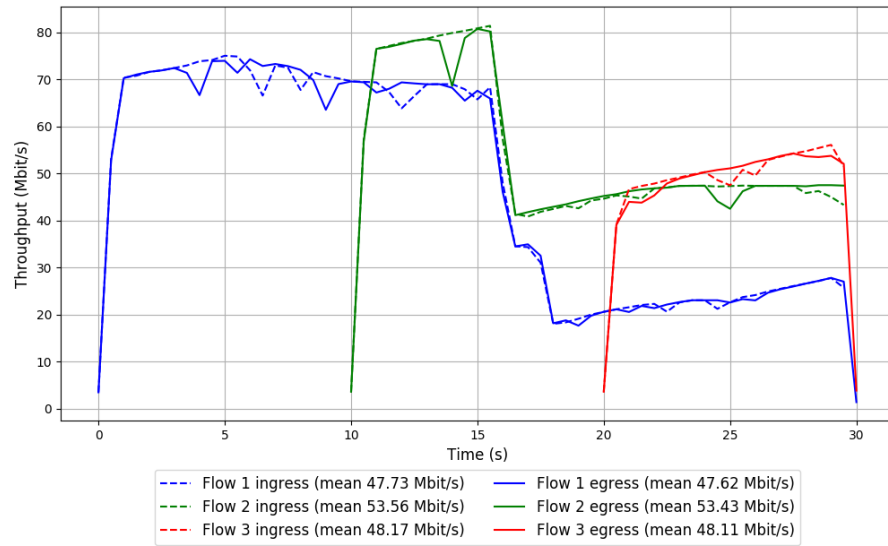
-- Flow 3:

Average throughput: 48.11 Mbit/s

95th percentile per-packet one-way delay: 52.408 ms

Loss rate: 0.11%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-01-10 00:19:42

End at: 2018-01-10 00:20:12

Below is generated by plot.py at 2018-01-10 02:59:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 83.63 Mbit/s

95th percentile per-packet one-way delay: 52.422 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 33.76 Mbit/s

95th percentile per-packet one-way delay: 52.071 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 42.72 Mbit/s

95th percentile per-packet one-way delay: 52.727 ms

Loss rate: 0.00%

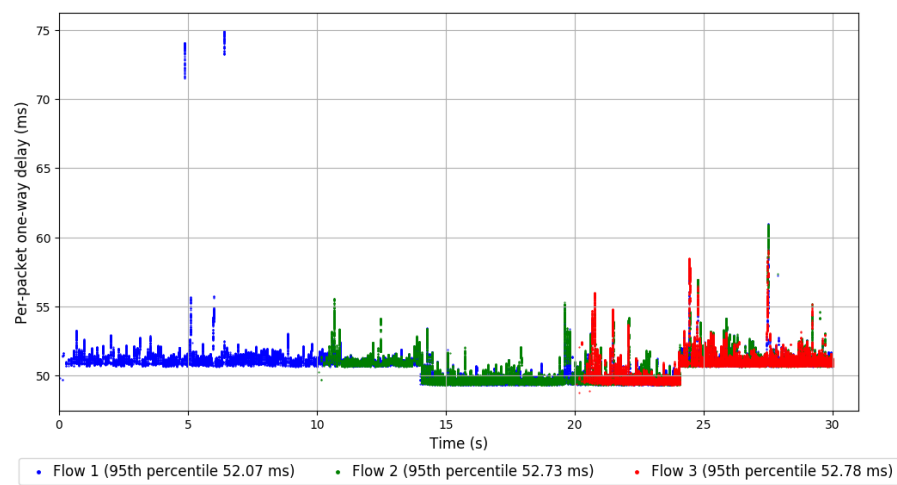
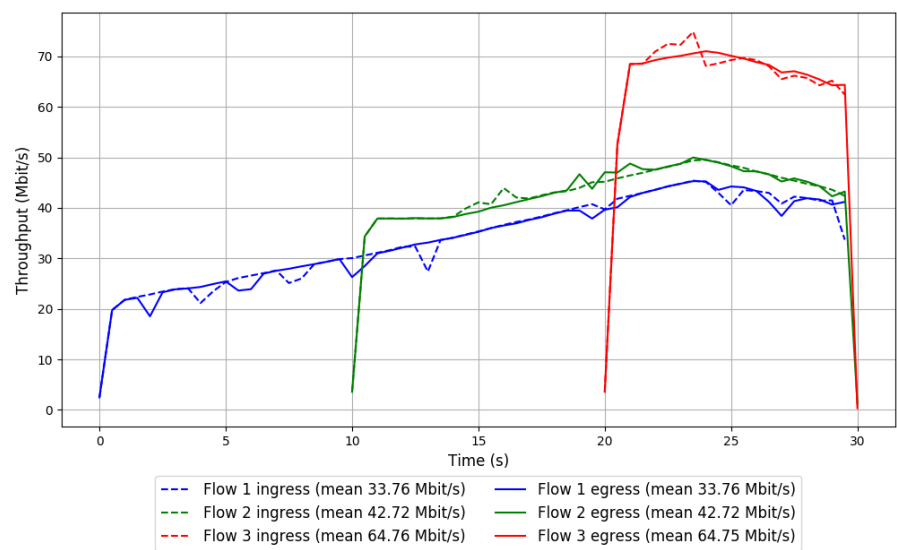
-- Flow 3:

Average throughput: 64.75 Mbit/s

95th percentile per-packet one-way delay: 52.778 ms

Loss rate: 0.00%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-01-10 00:33:31

End at: 2018-01-10 00:34:01

Below is generated by plot.py at 2018-01-10 03:00:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 180.14 Mbit/s

95th percentile per-packet one-way delay: 52.378 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 117.40 Mbit/s

95th percentile per-packet one-way delay: 52.600 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 91.12 Mbit/s

95th percentile per-packet one-way delay: 52.123 ms

Loss rate: 0.00%

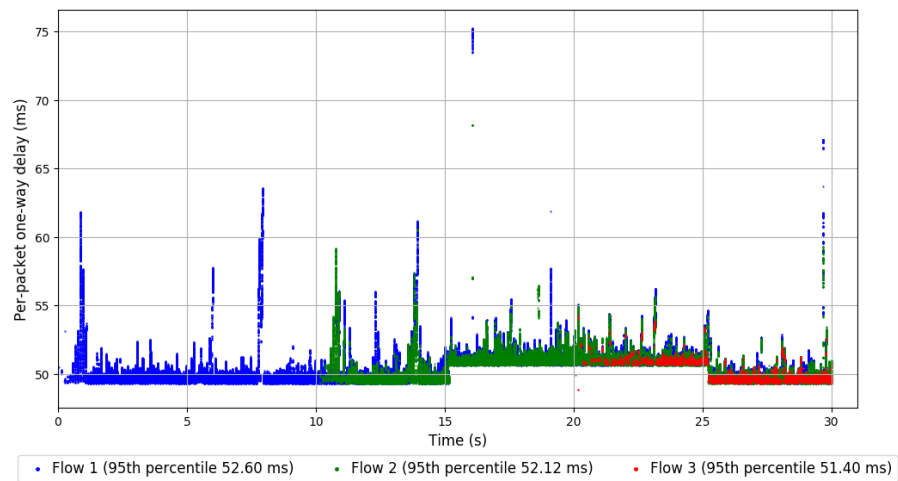
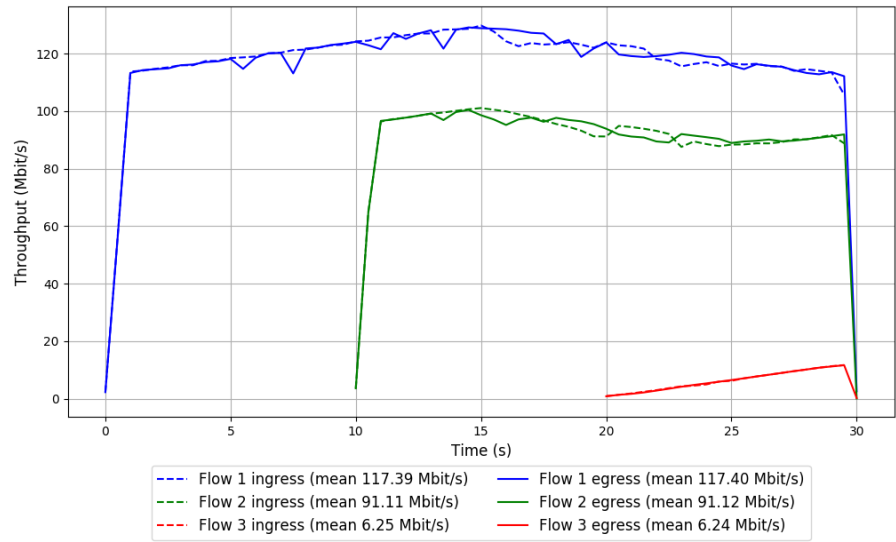
-- Flow 3:

Average throughput: 6.24 Mbit/s

95th percentile per-packet one-way delay: 51.404 ms

Loss rate: 0.08%

Run 10: Report of TCP Vegas — Data Link

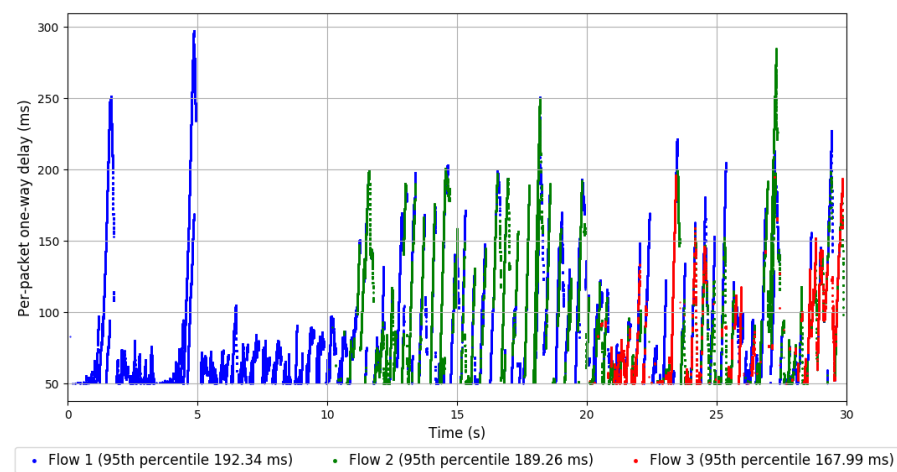
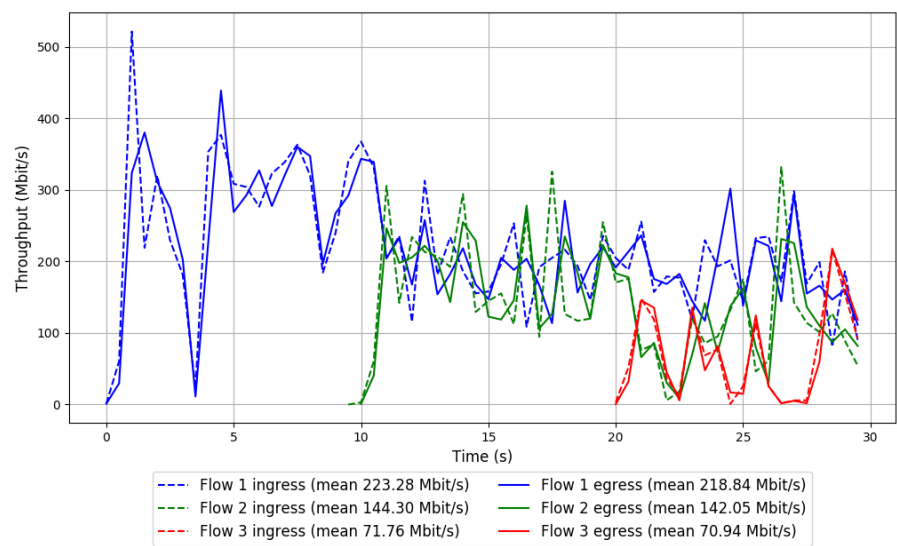


```
Run 1: Statistics of Verus

Start at: 2018-01-09 22:30:55
End at: 2018-01-09 22:31:25

# Below is generated by plot.py at 2018-01-10 03:02:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 336.09 Mbit/s
95th percentile per-packet one-way delay: 189.409 ms
Loss rate: 1.48%
-- Flow 1:
Average throughput: 218.84 Mbit/s
95th percentile per-packet one-way delay: 192.339 ms
Loss rate: 1.68%
-- Flow 2:
Average throughput: 142.05 Mbit/s
95th percentile per-packet one-way delay: 189.258 ms
Loss rate: 1.36%
-- Flow 3:
Average throughput: 70.94 Mbit/s
95th percentile per-packet one-way delay: 167.985 ms
Loss rate: 0.04%
```


Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-01-09 22:44:32

End at: 2018-01-09 22:45:02

Below is generated by plot.py at 2018-01-10 03:03:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 366.82 Mbit/s

95th percentile per-packet one-way delay: 176.462 ms

Loss rate: 1.44%

-- Flow 1:

Average throughput: 234.29 Mbit/s

95th percentile per-packet one-way delay: 158.141 ms

Loss rate: 0.74%

-- Flow 2:

Average throughput: 151.95 Mbit/s

95th percentile per-packet one-way delay: 196.211 ms

Loss rate: 2.42%

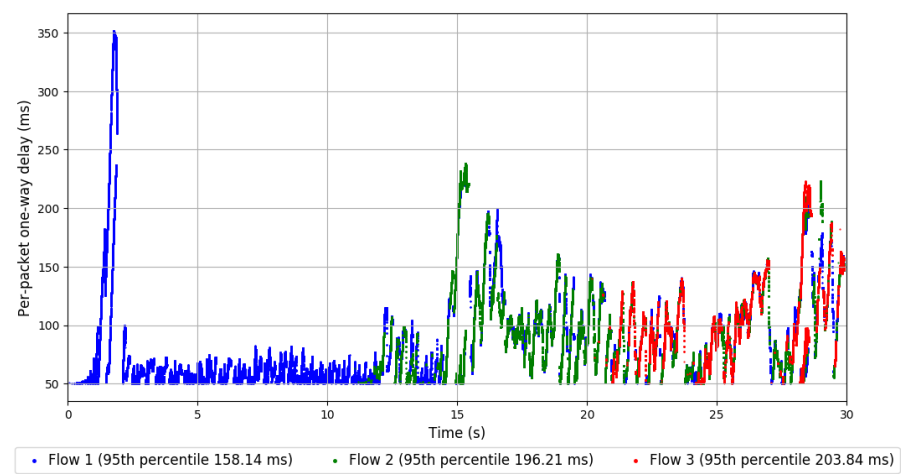
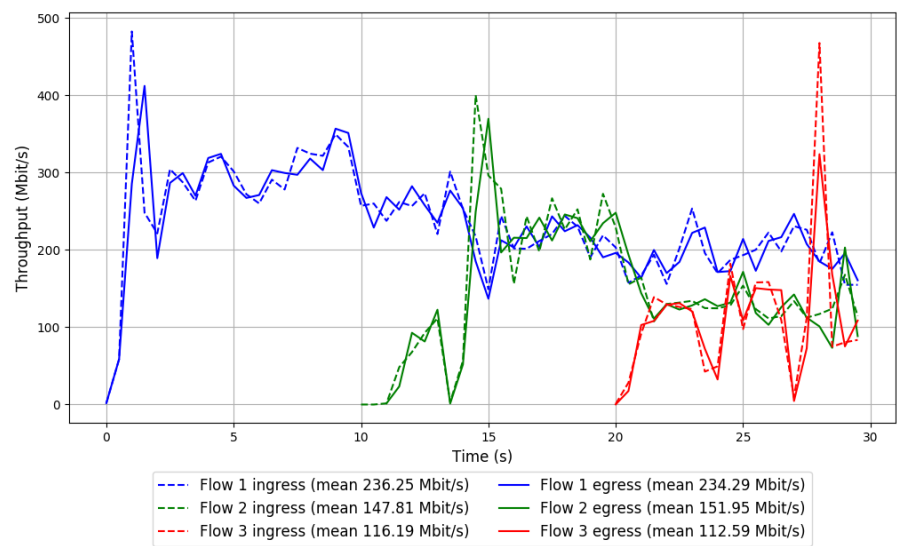
-- Flow 3:

Average throughput: 112.59 Mbit/s

95th percentile per-packet one-way delay: 203.835 ms

Loss rate: 3.30%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-01-09 22:58:12

End at: 2018-01-09 22:58:42

Below is generated by plot.py at 2018-01-10 03:03:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 354.33 Mbit/s

95th percentile per-packet one-way delay: 177.798 ms

Loss rate: 1.39%

-- Flow 1:

Average throughput: 226.09 Mbit/s

95th percentile per-packet one-way delay: 171.711 ms

Loss rate: 1.32%

-- Flow 2:

Average throughput: 156.07 Mbit/s

95th percentile per-packet one-way delay: 188.542 ms

Loss rate: 1.85%

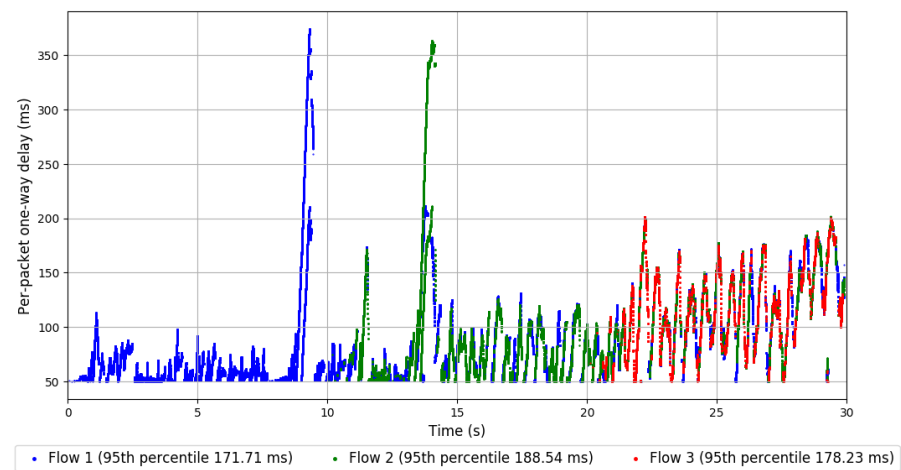
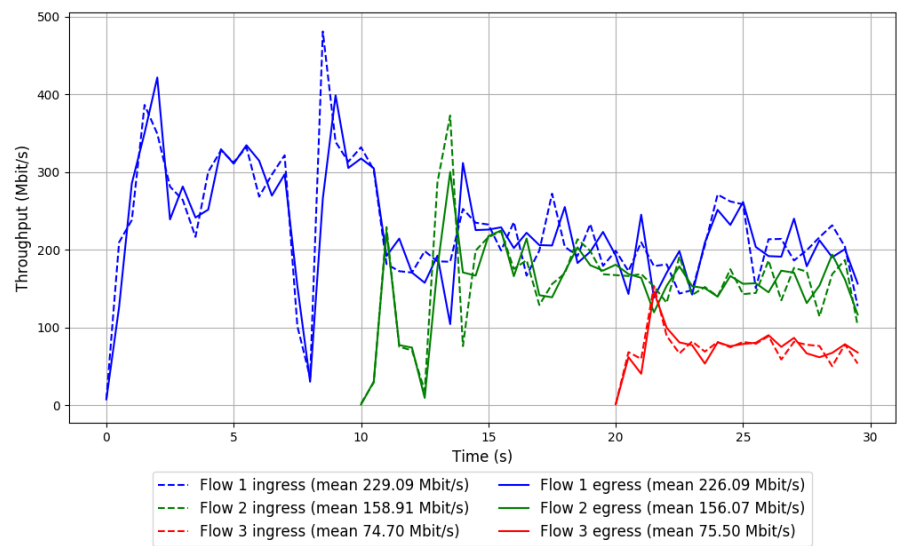
-- Flow 3:

Average throughput: 75.50 Mbit/s

95th percentile per-packet one-way delay: 178.230 ms

Loss rate: 0.06%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-01-09 23:12:04

End at: 2018-01-09 23:12:34

Below is generated by plot.py at 2018-01-10 03:03:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 317.81 Mbit/s

95th percentile per-packet one-way delay: 189.625 ms

Loss rate: 1.57%

-- Flow 1:

Average throughput: 157.68 Mbit/s

95th percentile per-packet one-way delay: 190.848 ms

Loss rate: 2.25%

-- Flow 2:

Average throughput: 190.09 Mbit/s

95th percentile per-packet one-way delay: 185.692 ms

Loss rate: 0.72%

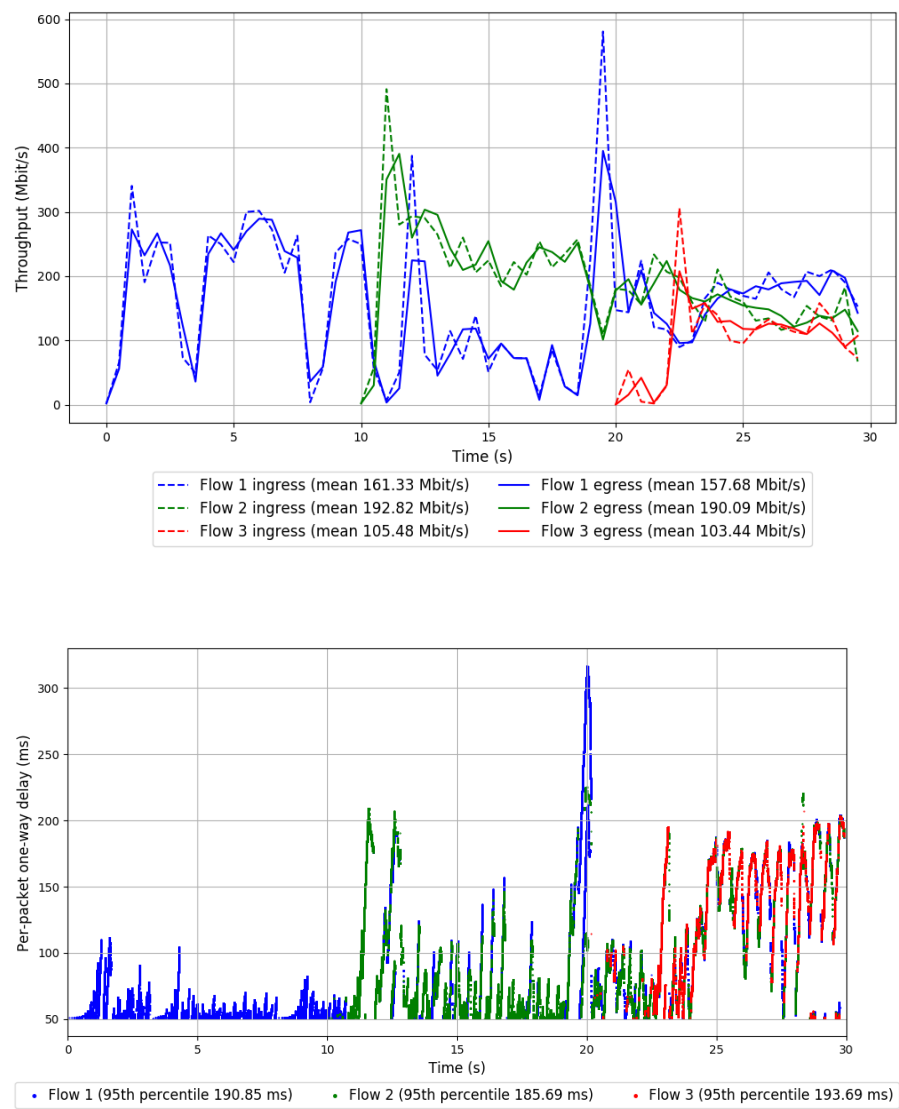
-- Flow 3:

Average throughput: 103.44 Mbit/s

95th percentile per-packet one-way delay: 193.691 ms

Loss rate: 1.59%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-01-09 23:25:55

End at: 2018-01-09 23:26:25

Below is generated by plot.py at 2018-01-10 03:03:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 346.22 Mbit/s

95th percentile per-packet one-way delay: 185.675 ms

Loss rate: 2.74%

-- Flow 1:

Average throughput: 207.11 Mbit/s

95th percentile per-packet one-way delay: 156.827 ms

Loss rate: 2.41%

-- Flow 2:

Average throughput: 152.04 Mbit/s

95th percentile per-packet one-way delay: 174.383 ms

Loss rate: 1.67%

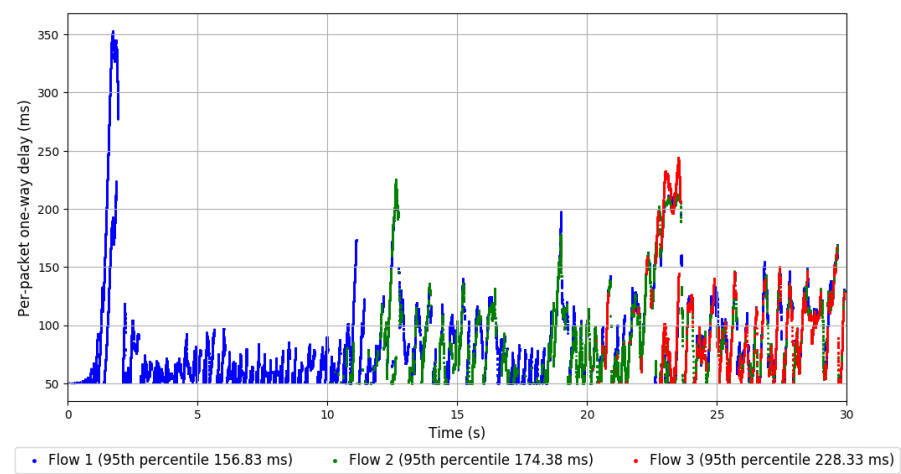
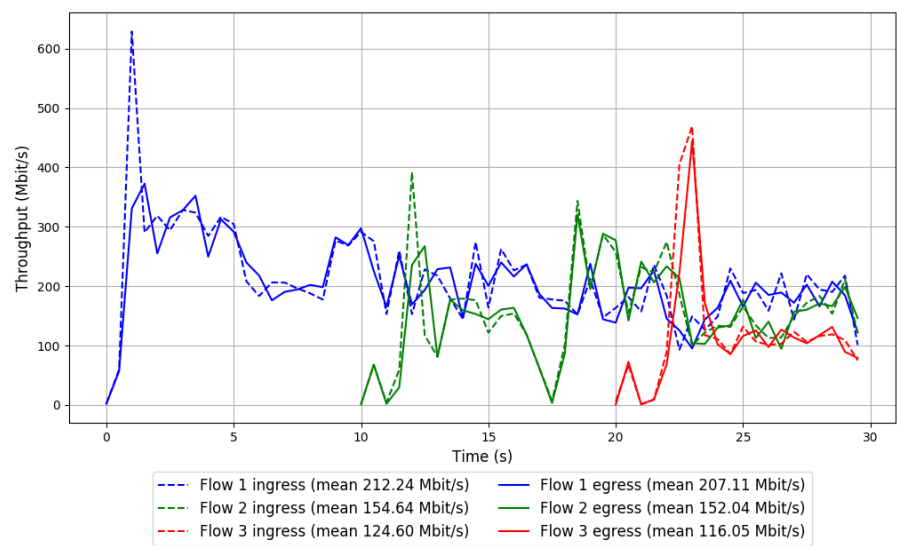
-- Flow 3:

Average throughput: 116.05 Mbit/s

95th percentile per-packet one-way delay: 228.332 ms

Loss rate: 7.11%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-01-09 23:39:24

End at: 2018-01-09 23:39:54

Below is generated by plot.py at 2018-01-10 03:05:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 386.19 Mbit/s

95th percentile per-packet one-way delay: 190.521 ms

Loss rate: 1.21%

-- Flow 1:

Average throughput: 244.56 Mbit/s

95th percentile per-packet one-way delay: 186.620 ms

Loss rate: 1.37%

-- Flow 2:

Average throughput: 182.05 Mbit/s

95th percentile per-packet one-way delay: 187.447 ms

Loss rate: 0.74%

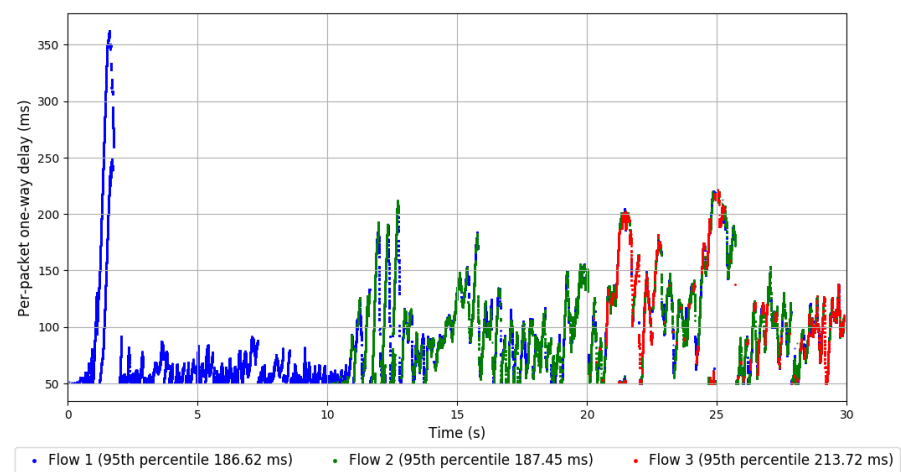
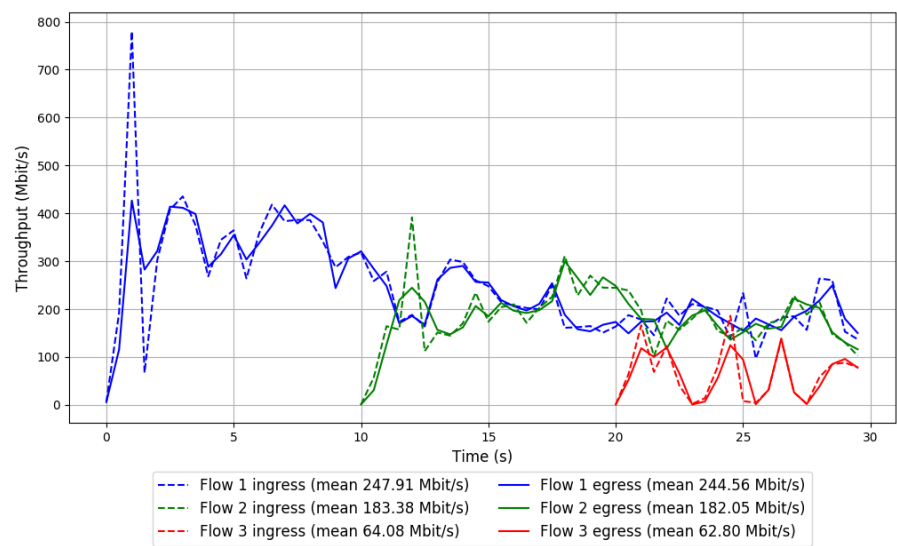
-- Flow 3:

Average throughput: 62.80 Mbit/s

95th percentile per-packet one-way delay: 213.722 ms

Loss rate: 2.04%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-01-09 23:53:11

End at: 2018-01-09 23:53:41

Below is generated by plot.py at 2018-01-10 03:05:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 370.79 Mbit/s

95th percentile per-packet one-way delay: 190.135 ms

Loss rate: 1.38%

-- Flow 1:

Average throughput: 228.70 Mbit/s

95th percentile per-packet one-way delay: 183.618 ms

Loss rate: 0.96%

-- Flow 2:

Average throughput: 184.09 Mbit/s

95th percentile per-packet one-way delay: 194.780 ms

Loss rate: 2.22%

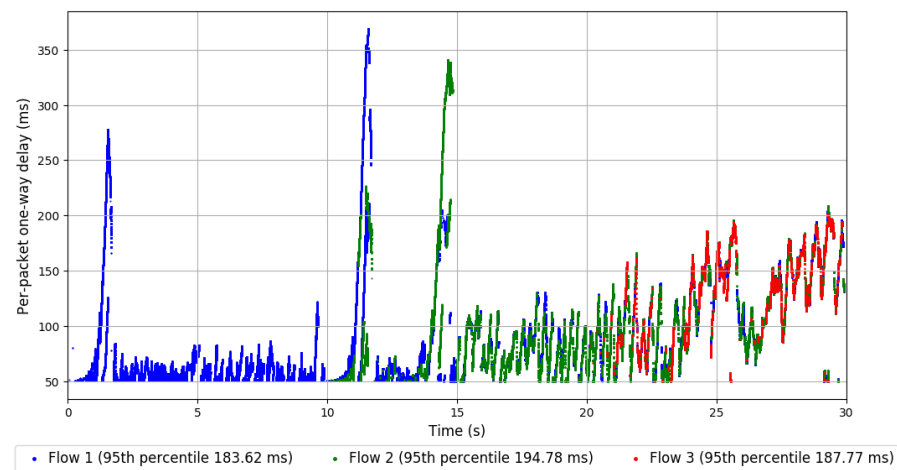
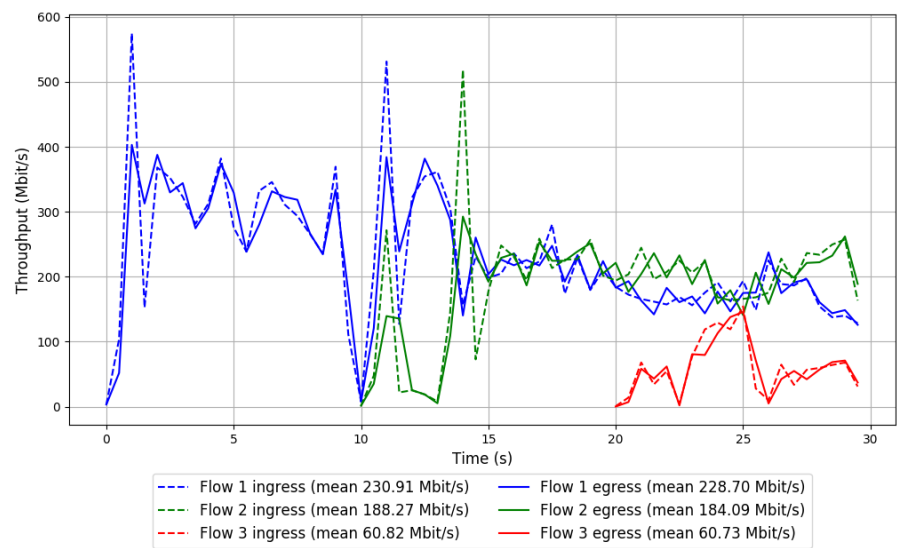
-- Flow 3:

Average throughput: 60.73 Mbit/s

95th percentile per-packet one-way delay: 187.770 ms

Loss rate: 0.98%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-01-10 00:06:40

End at: 2018-01-10 00:07:10

Below is generated by plot.py at 2018-01-10 03:06:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 361.42 Mbit/s

95th percentile per-packet one-way delay: 177.946 ms

Loss rate: 1.60%

-- Flow 1:

Average throughput: 240.15 Mbit/s

95th percentile per-packet one-way delay: 170.983 ms

Loss rate: 1.86%

-- Flow 2:

Average throughput: 134.96 Mbit/s

95th percentile per-packet one-way delay: 177.424 ms

Loss rate: 1.02%

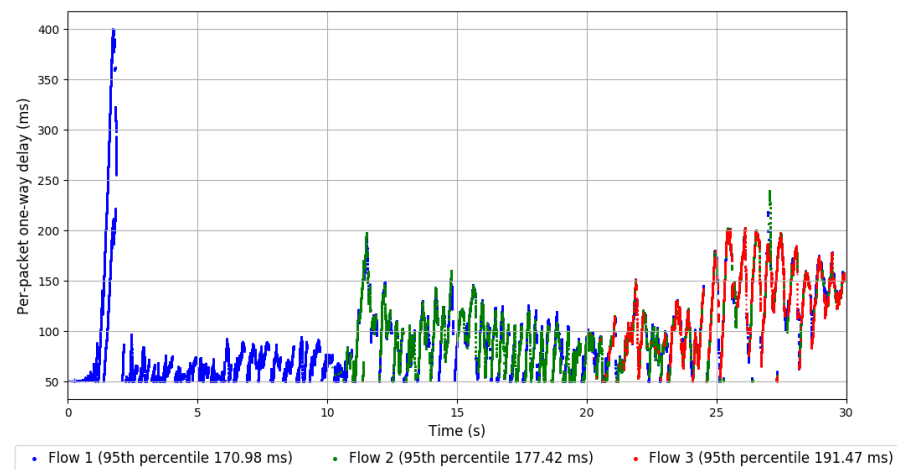
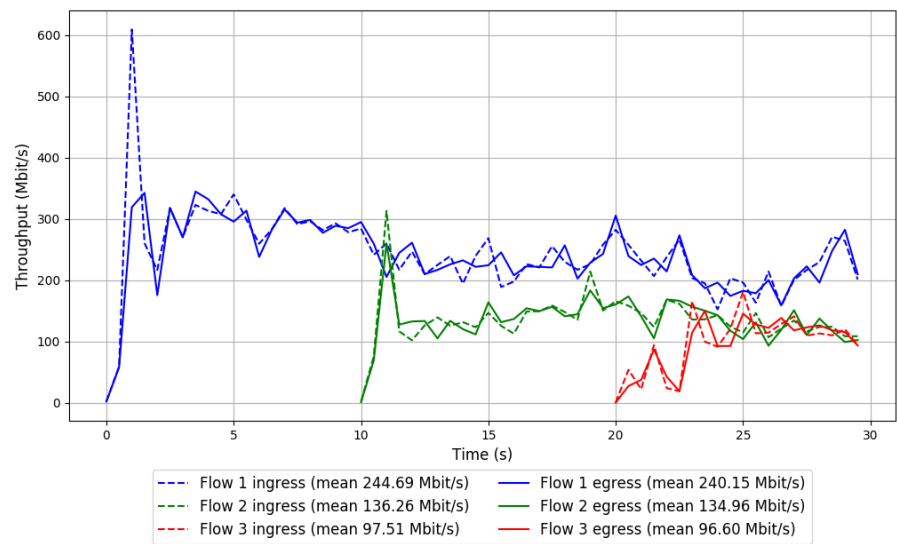
-- Flow 3:

Average throughput: 96.60 Mbit/s

95th percentile per-packet one-way delay: 191.467 ms

Loss rate: 1.29%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-01-10 00:20:26

End at: 2018-01-10 00:20:56

Below is generated by plot.py at 2018-01-10 03:09:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 382.54 Mbit/s

95th percentile per-packet one-way delay: 194.856 ms

Loss rate: 1.18%

-- Flow 1:

Average throughput: 261.05 Mbit/s

95th percentile per-packet one-way delay: 182.722 ms

Loss rate: 0.62%

-- Flow 2:

Average throughput: 141.06 Mbit/s

95th percentile per-packet one-way delay: 237.665 ms

Loss rate: 2.33%

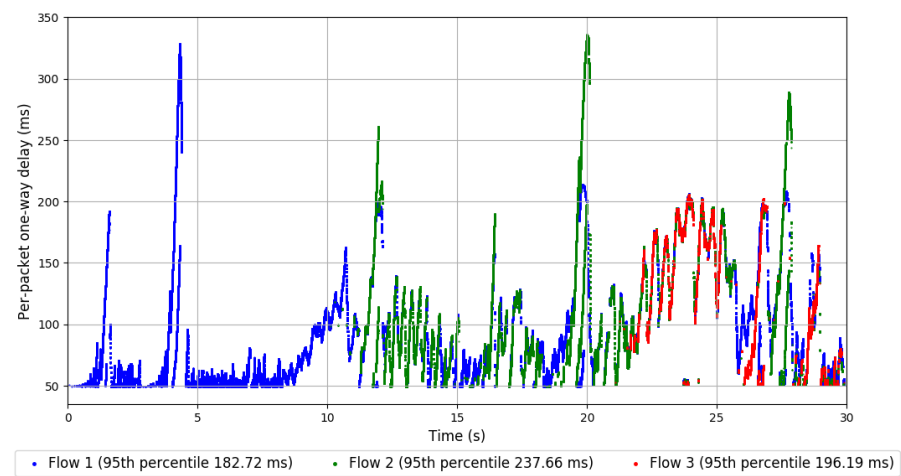
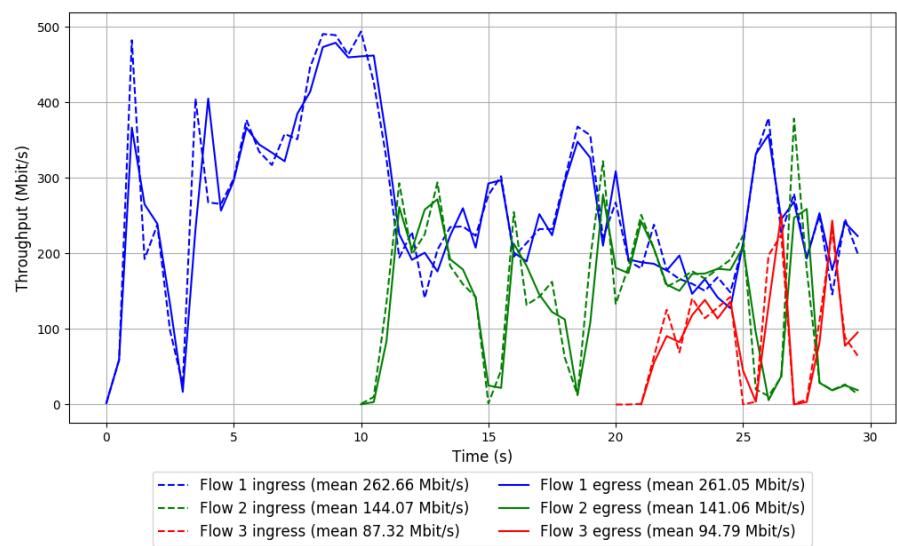
-- Flow 3:

Average throughput: 94.79 Mbit/s

95th percentile per-packet one-way delay: 196.188 ms

Loss rate: 2.51%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-01-10 00:34:20

End at: 2018-01-10 00:34:50

Below is generated by plot.py at 2018-01-10 03:09:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 352.56 Mbit/s

95th percentile per-packet one-way delay: 151.375 ms

Loss rate: 1.02%

-- Flow 1:

Average throughput: 234.07 Mbit/s

95th percentile per-packet one-way delay: 147.670 ms

Loss rate: 0.71%

-- Flow 2:

Average throughput: 137.70 Mbit/s

95th percentile per-packet one-way delay: 142.595 ms

Loss rate: 0.47%

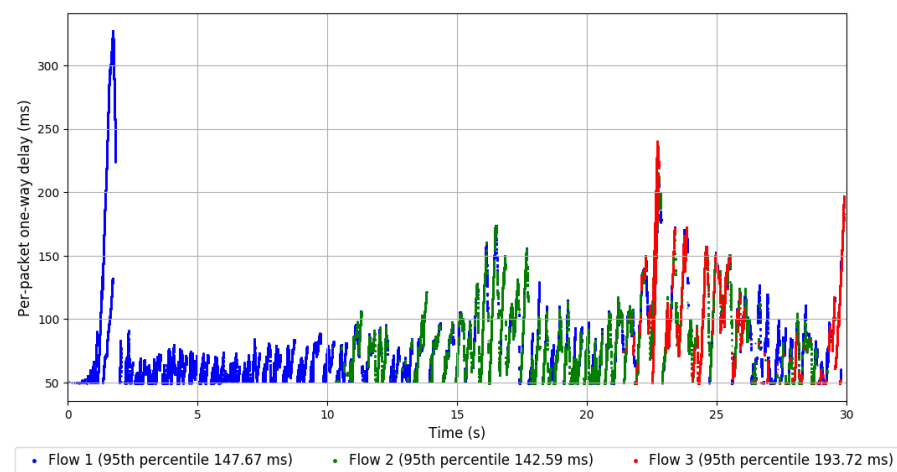
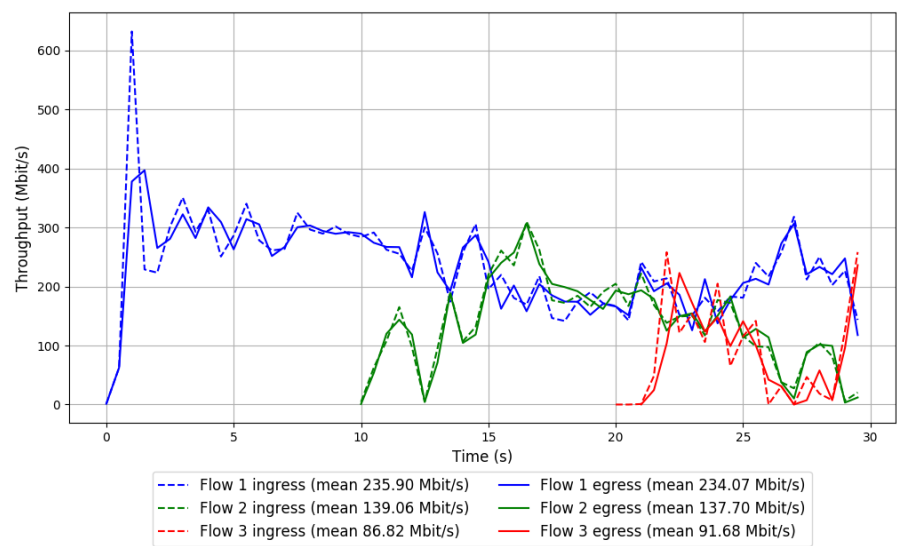
-- Flow 3:

Average throughput: 91.68 Mbit/s

95th percentile per-packet one-way delay: 193.717 ms

Loss rate: 5.32%

Run 10: Report of Verus — Data Link

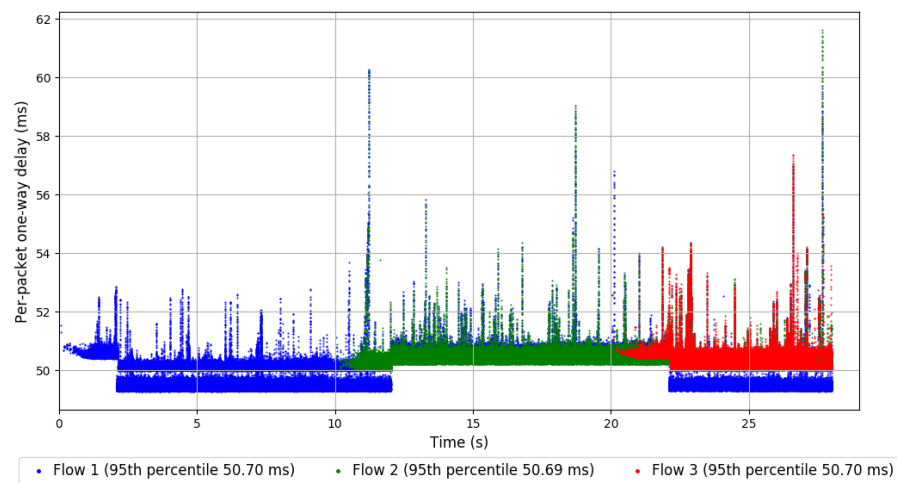
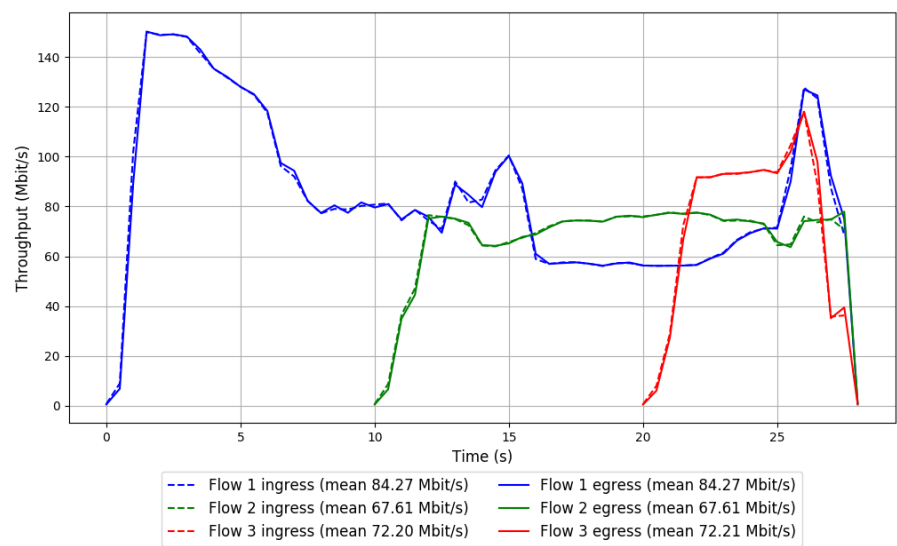


```
Run 1: Statistics of Copa

Start at: 2018-01-09 22:27:52
End at: 2018-01-09 22:28:22

# Below is generated by plot.py at 2018-01-10 03:09:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 148.14 Mbit/s
95th percentile per-packet one-way delay: 50.697 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 84.27 Mbit/s
95th percentile per-packet one-way delay: 50.701 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 67.61 Mbit/s
95th percentile per-packet one-way delay: 50.685 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 72.21 Mbit/s
95th percentile per-packet one-way delay: 50.702 ms
Loss rate: 0.00%
```

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-01-09 22:41:31

End at: 2018-01-09 22:42:01

Below is generated by plot.py at 2018-01-10 03:09:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 128.97 Mbit/s

95th percentile per-packet one-way delay: 50.689 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 79.68 Mbit/s

95th percentile per-packet one-way delay: 50.682 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 76.72 Mbit/s

95th percentile per-packet one-way delay: 50.697 ms

Loss rate: 0.00%

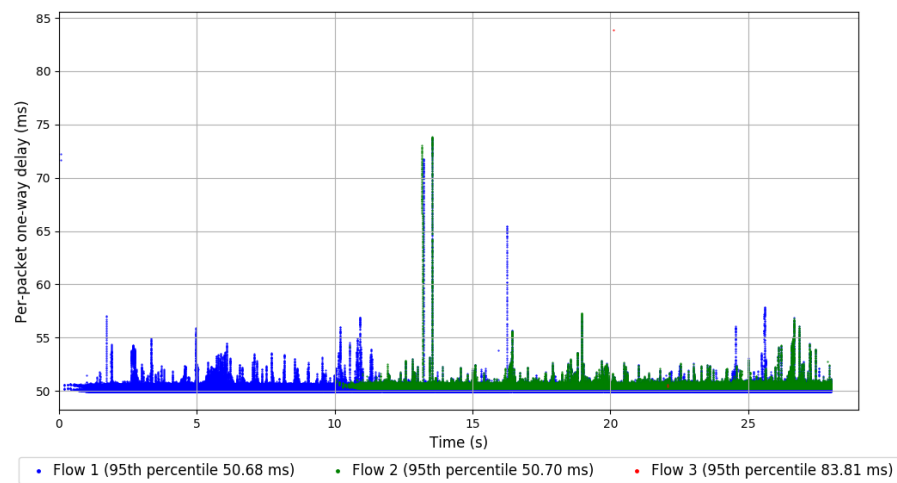
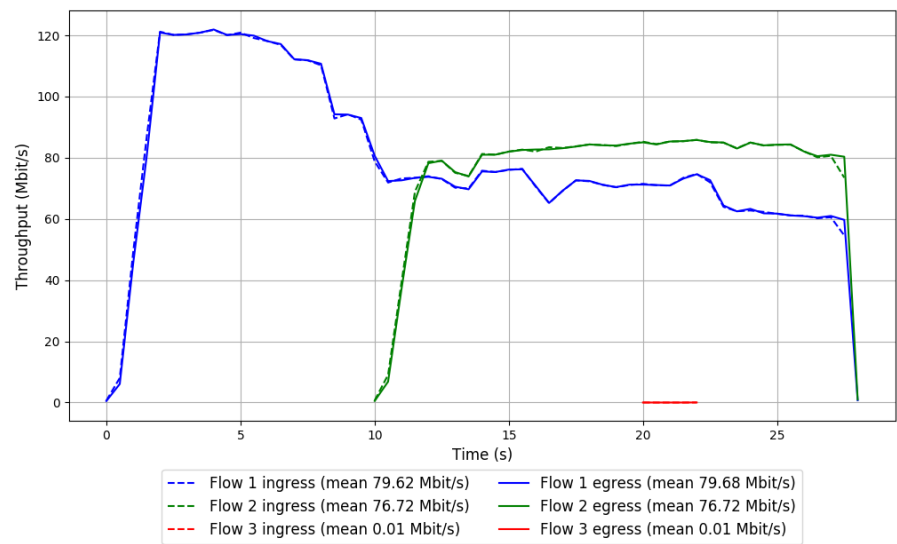
-- Flow 3:

Average throughput: 0.01 Mbit/s

95th percentile per-packet one-way delay: 83.815 ms

Loss rate: 46.17%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-01-09 22:55:17

End at: 2018-01-09 22:55:47

Below is generated by plot.py at 2018-01-10 03:09:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 131.72 Mbit/s

95th percentile per-packet one-way delay: 50.678 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 73.27 Mbit/s

95th percentile per-packet one-way delay: 50.629 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 60.38 Mbit/s

95th percentile per-packet one-way delay: 50.846 ms

Loss rate: 0.00%

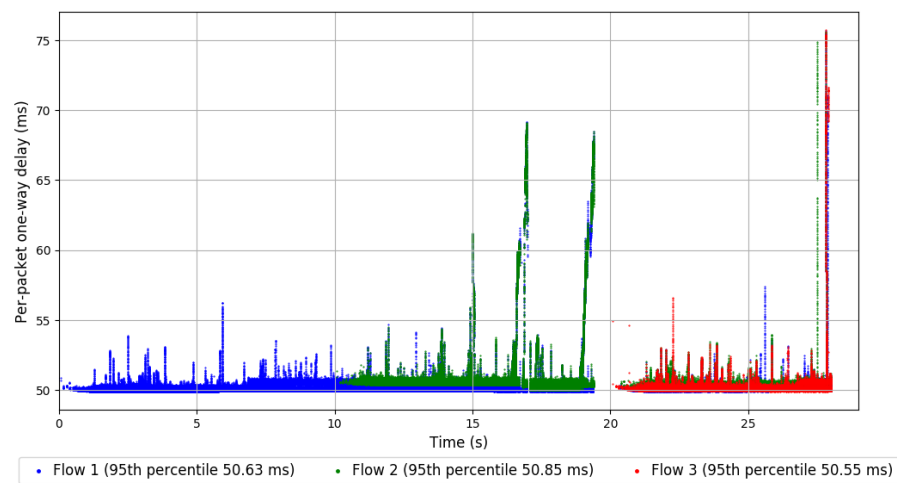
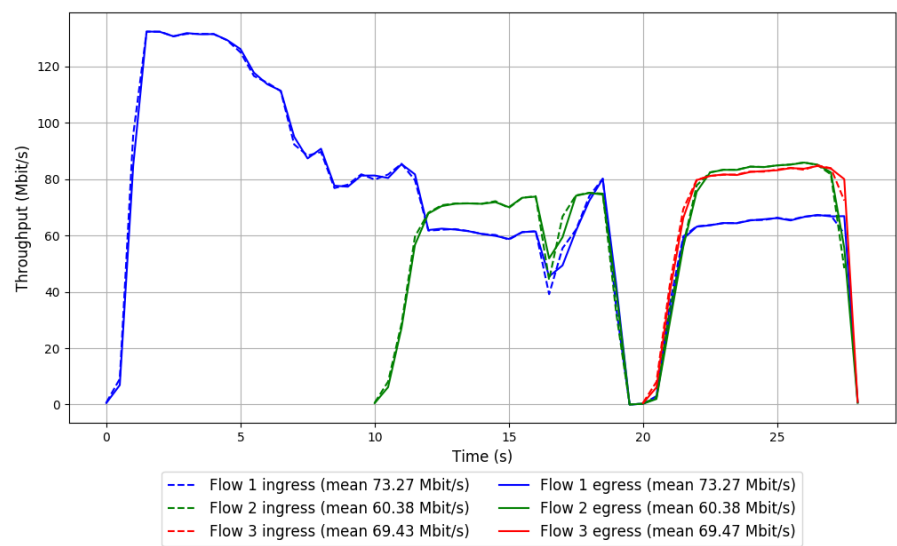
-- Flow 3:

Average throughput: 69.47 Mbit/s

95th percentile per-packet one-way delay: 50.550 ms

Loss rate: 0.00%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

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

End at: 2018-01-09 23:09:31

Below is generated by plot.py at 2018-01-10 03:09:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 145.76 Mbit/s

95th percentile per-packet one-way delay: 50.751 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 80.62 Mbit/s

95th percentile per-packet one-way delay: 50.724 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 77.34 Mbit/s

95th percentile per-packet one-way delay: 50.759 ms

Loss rate: 0.00%

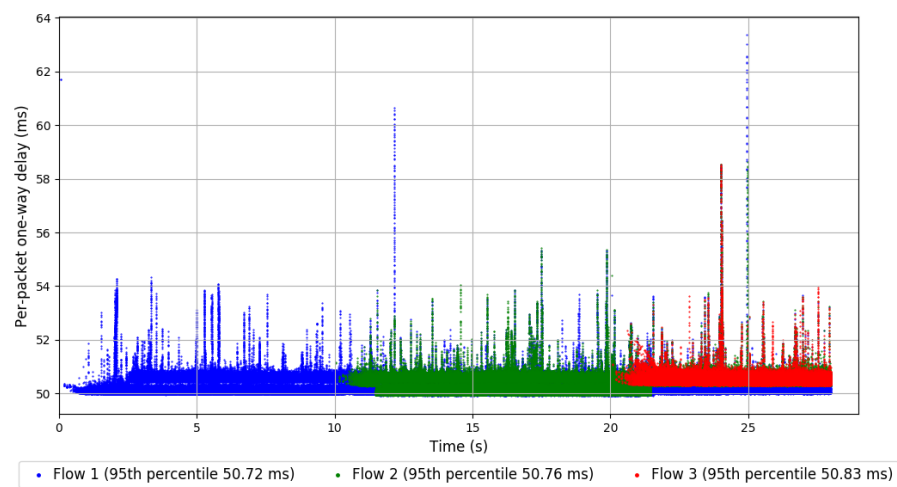
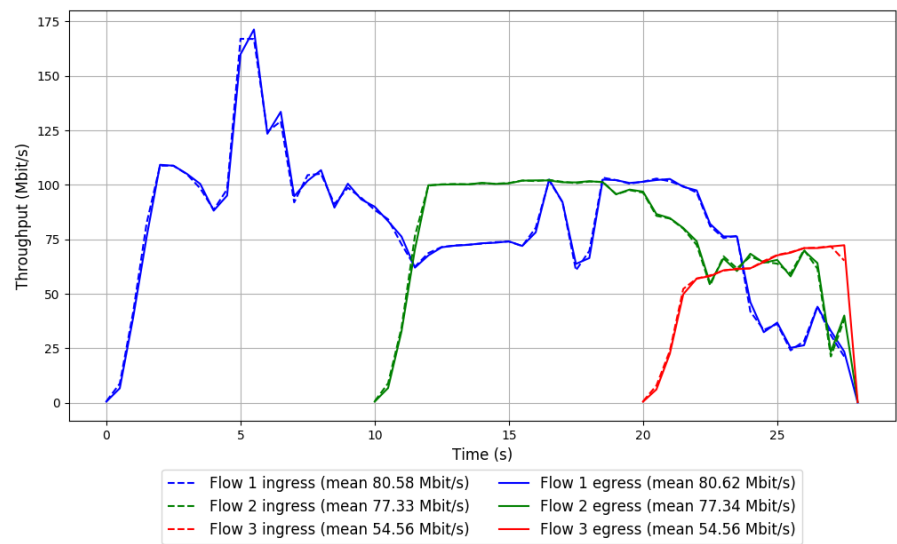
-- Flow 3:

Average throughput: 54.56 Mbit/s

95th percentile per-packet one-way delay: 50.825 ms

Loss rate: 0.00%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-01-09 23:22:52

End at: 2018-01-09 23:23:22

Below is generated by plot.py at 2018-01-10 03:09:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 144.94 Mbit/s

95th percentile per-packet one-way delay: 50.711 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 72.82 Mbit/s

95th percentile per-packet one-way delay: 50.703 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 72.14 Mbit/s

95th percentile per-packet one-way delay: 50.740 ms

Loss rate: 0.00%

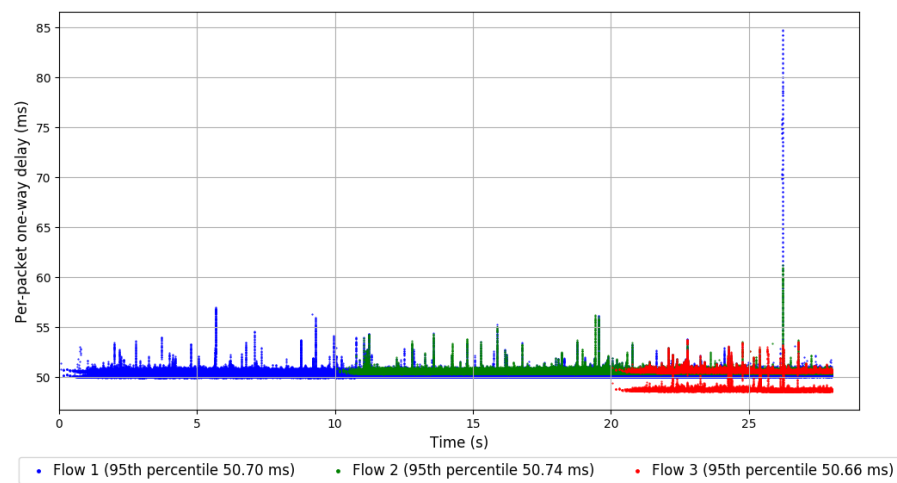
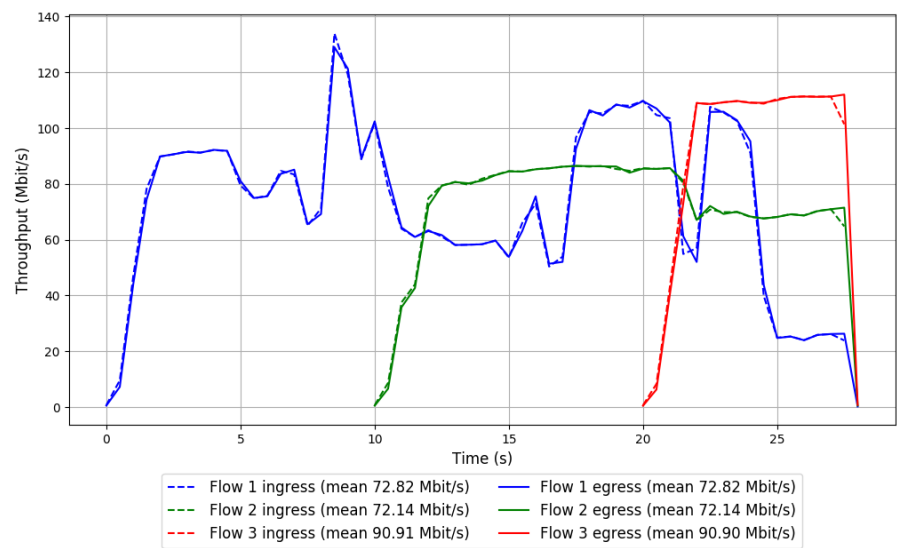
-- Flow 3:

Average throughput: 90.90 Mbit/s

95th percentile per-packet one-way delay: 50.660 ms

Loss rate: 0.00%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-01-09 23:36:25

End at: 2018-01-09 23:36:55

Below is generated by plot.py at 2018-01-10 03:09:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 113.08 Mbit/s

95th percentile per-packet one-way delay: 50.802 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 57.70 Mbit/s

95th percentile per-packet one-way delay: 50.603 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 66.02 Mbit/s

95th percentile per-packet one-way delay: 50.884 ms

Loss rate: 0.00%

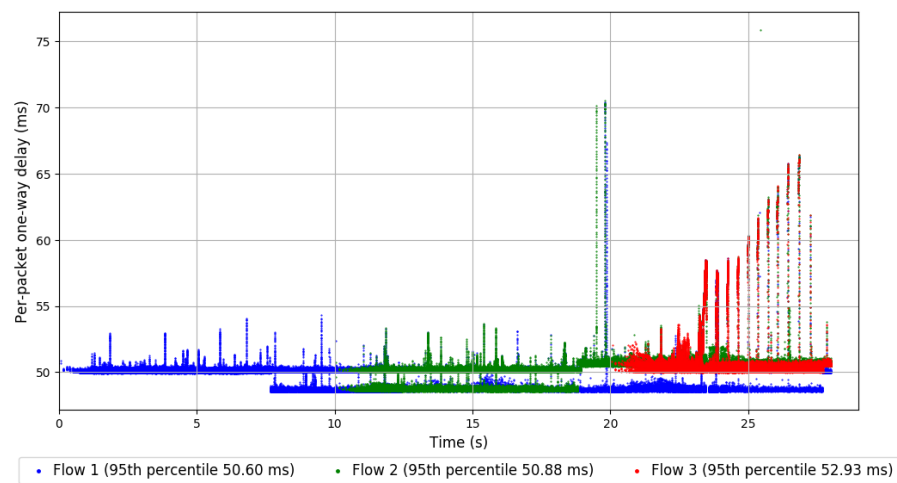
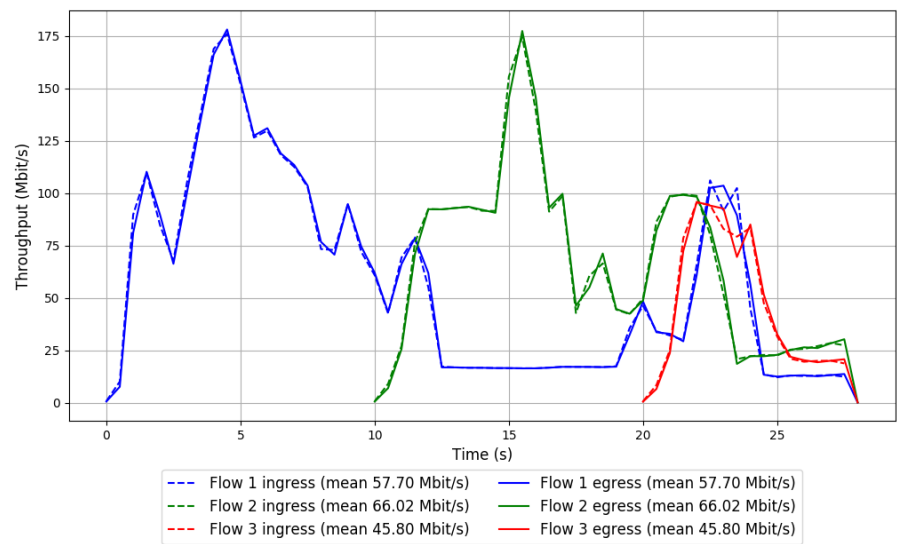
-- Flow 3:

Average throughput: 45.80 Mbit/s

95th percentile per-packet one-way delay: 52.934 ms

Loss rate: 0.00%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-01-09 23:50:05

End at: 2018-01-09 23:50:35

Below is generated by plot.py at 2018-01-10 03:10:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 144.35 Mbit/s

95th percentile per-packet one-way delay: 50.768 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 81.12 Mbit/s

95th percentile per-packet one-way delay: 50.768 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 78.62 Mbit/s

95th percentile per-packet one-way delay: 50.764 ms

Loss rate: 0.00%

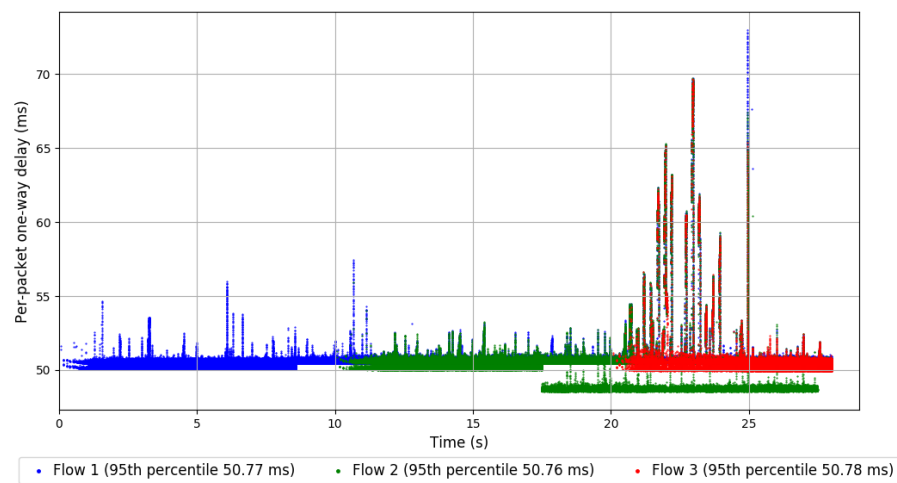
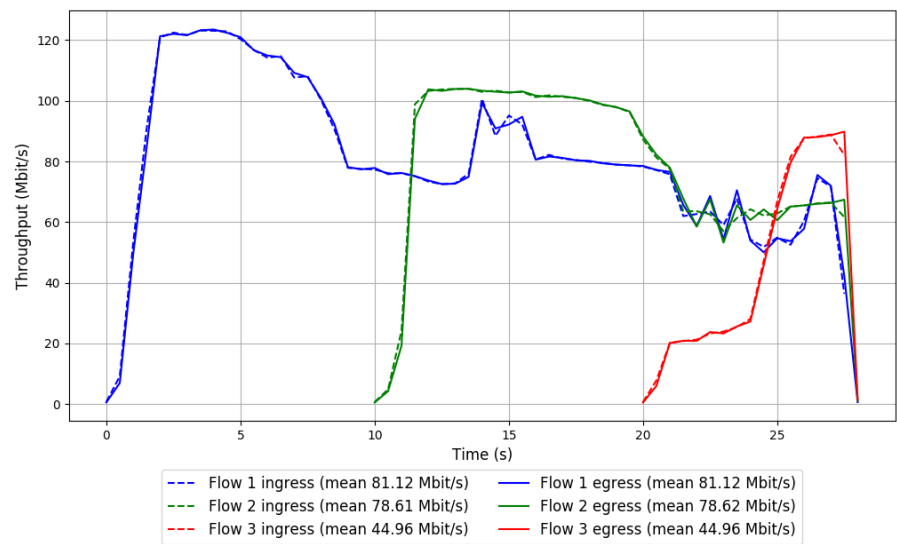
-- Flow 3:

Average throughput: 44.96 Mbit/s

95th percentile per-packet one-way delay: 50.785 ms

Loss rate: 0.00%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-01-10 00:03:39

End at: 2018-01-10 00:04:09

Below is generated by plot.py at 2018-01-10 03:11:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 148.15 Mbit/s

95th percentile per-packet one-way delay: 50.679 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 77.77 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 74.58 Mbit/s

95th percentile per-packet one-way delay: 50.740 ms

Loss rate: 0.00%

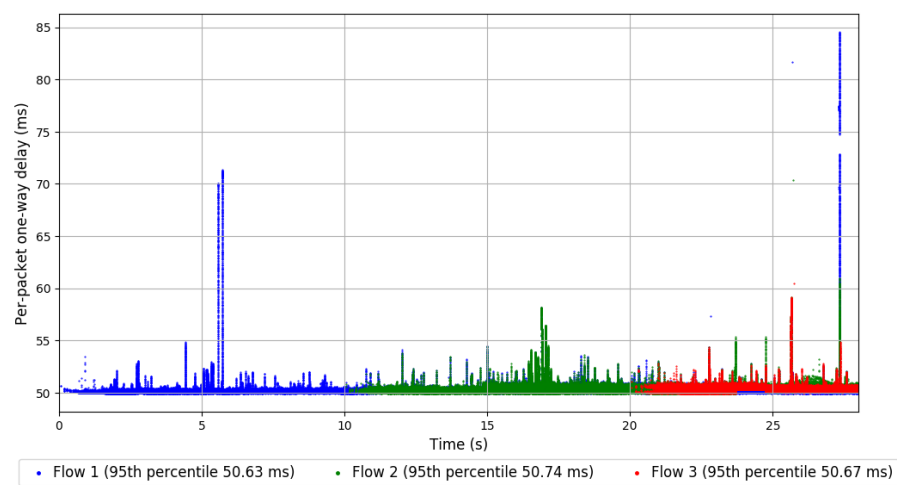
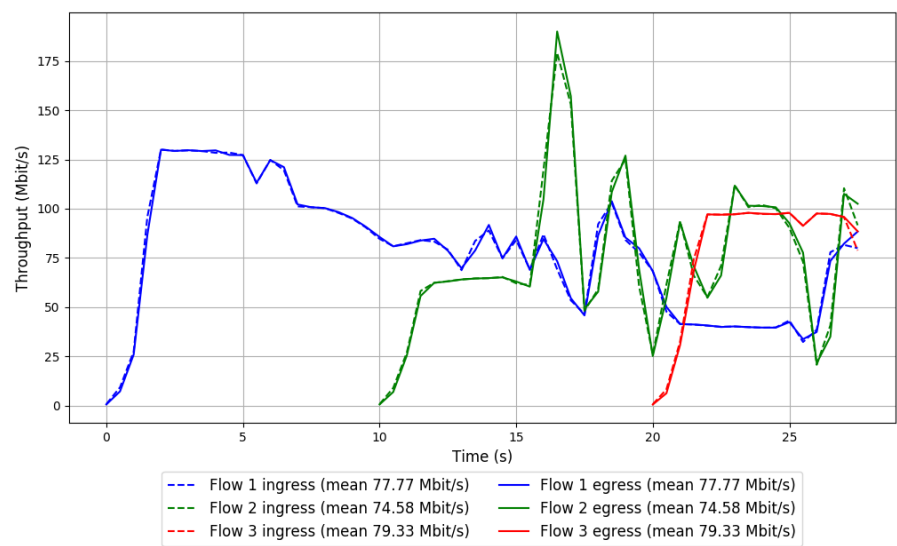
-- Flow 3:

Average throughput: 79.33 Mbit/s

95th percentile per-packet one-way delay: 50.669 ms

Loss rate: 0.00%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-01-10 00:17:28

End at: 2018-01-10 00:17:58

Below is generated by plot.py at 2018-01-10 03:11:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 133.99 Mbit/s

95th percentile per-packet one-way delay: 51.029 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 61.46 Mbit/s

95th percentile per-packet one-way delay: 50.947 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 87.94 Mbit/s

95th percentile per-packet one-way delay: 51.323 ms

Loss rate: 0.00%

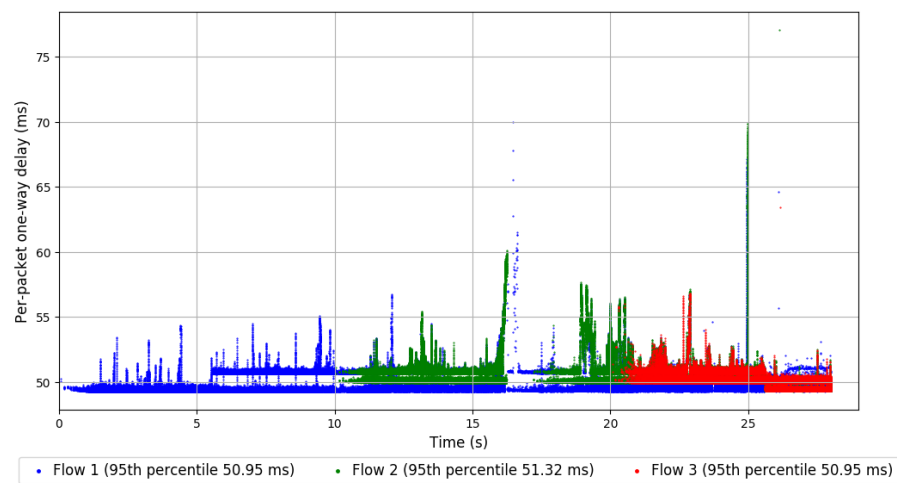
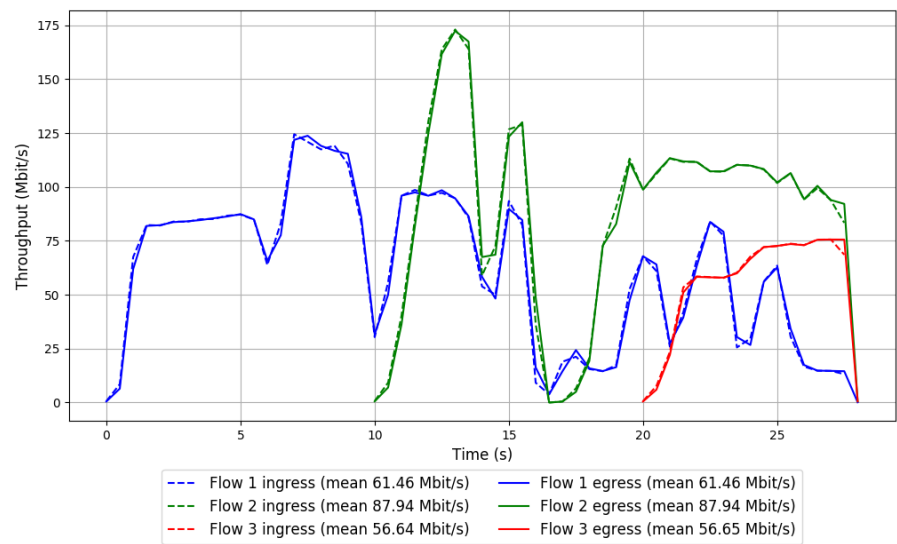
-- Flow 3:

Average throughput: 56.65 Mbit/s

95th percentile per-packet one-way delay: 50.954 ms

Loss rate: 0.00%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-01-10 00:31:16

End at: 2018-01-10 00:31:46

Below is generated by plot.py at 2018-01-10 03:12:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 140.87 Mbit/s

95th percentile per-packet one-way delay: 50.827 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 76.11 Mbit/s

95th percentile per-packet one-way delay: 50.839 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 76.31 Mbit/s

95th percentile per-packet one-way delay: 50.836 ms

Loss rate: 0.00%

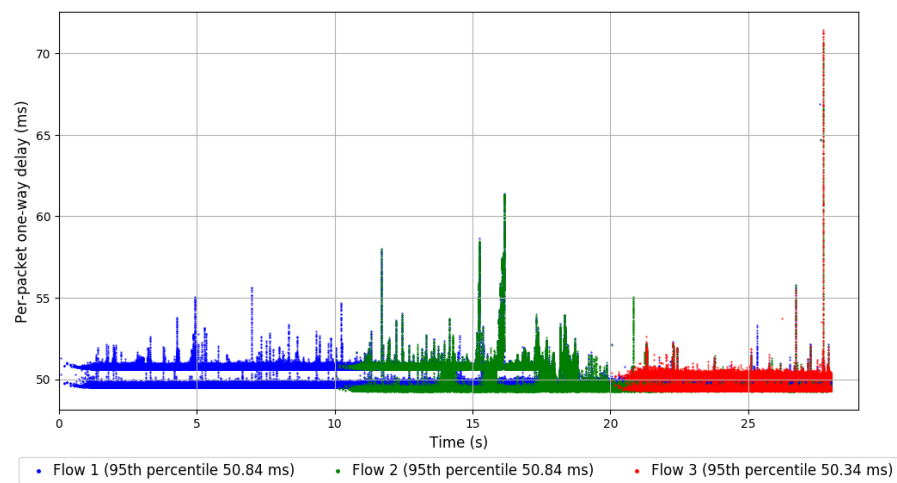
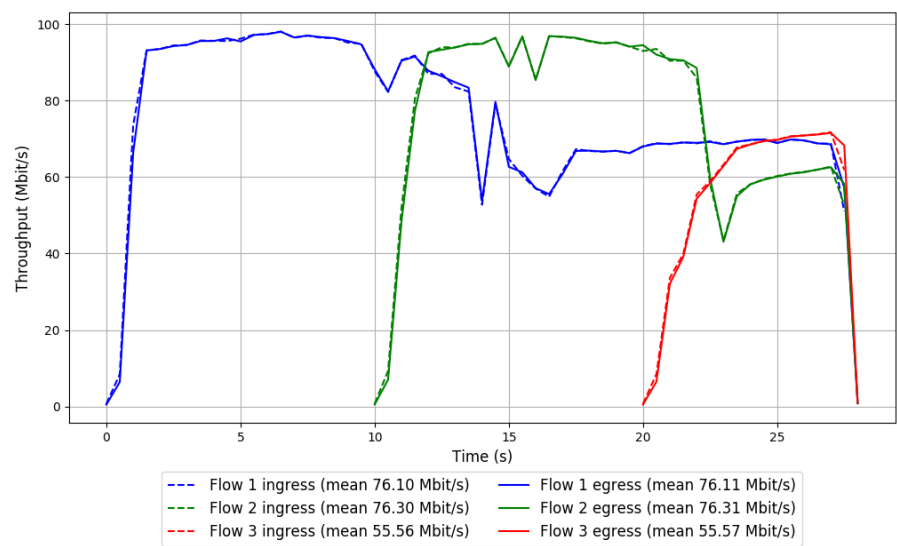
-- Flow 3:

Average throughput: 55.57 Mbit/s

95th percentile per-packet one-way delay: 50.336 ms

Loss rate: 0.00%

Run 10: Report of Copa — Data Link

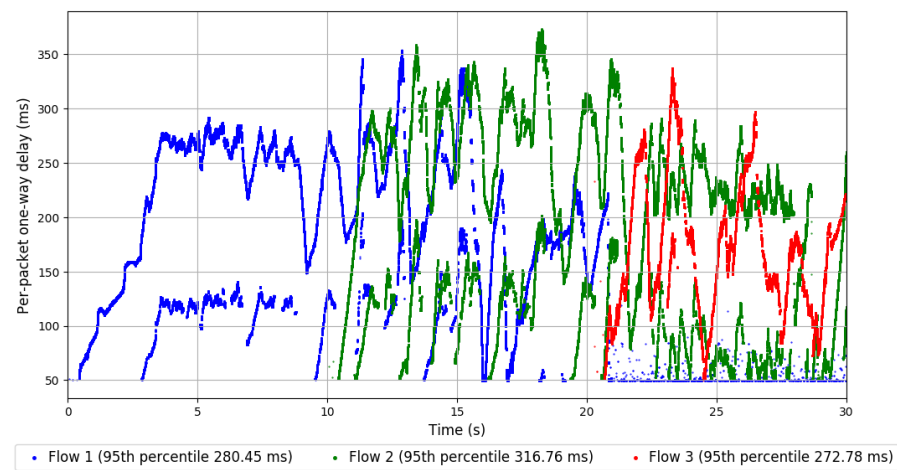
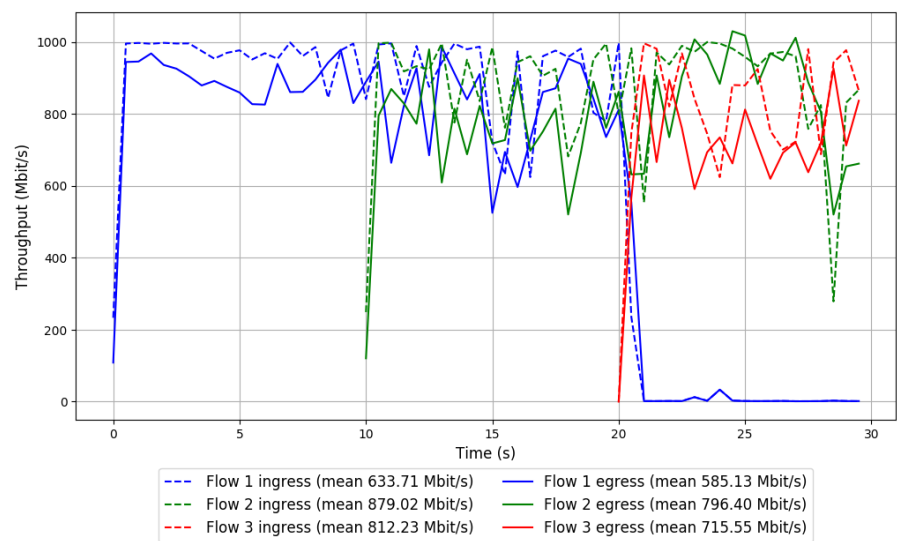


```
Run 1: Statistics of FillP

Start at: 2018-01-09 22:32:00
End at: 2018-01-09 22:32:30

# Below is generated by plot.py at 2018-01-10 03:32:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1345.97 Mbit/s
95th percentile per-packet one-way delay: 301.586 ms
Loss rate: 9.44%
-- Flow 1:
Average throughput: 585.13 Mbit/s
95th percentile per-packet one-way delay: 280.450 ms
Loss rate: 7.71%
-- Flow 2:
Average throughput: 796.40 Mbit/s
95th percentile per-packet one-way delay: 316.762 ms
Loss rate: 9.45%
-- Flow 3:
Average throughput: 715.55 Mbit/s
95th percentile per-packet one-way delay: 272.781 ms
Loss rate: 13.53%
```


Run 1: Report of FillP — Data Link

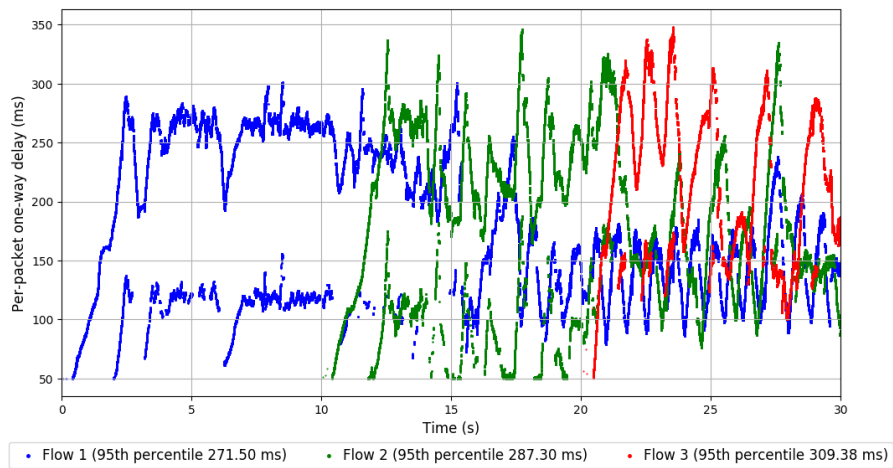
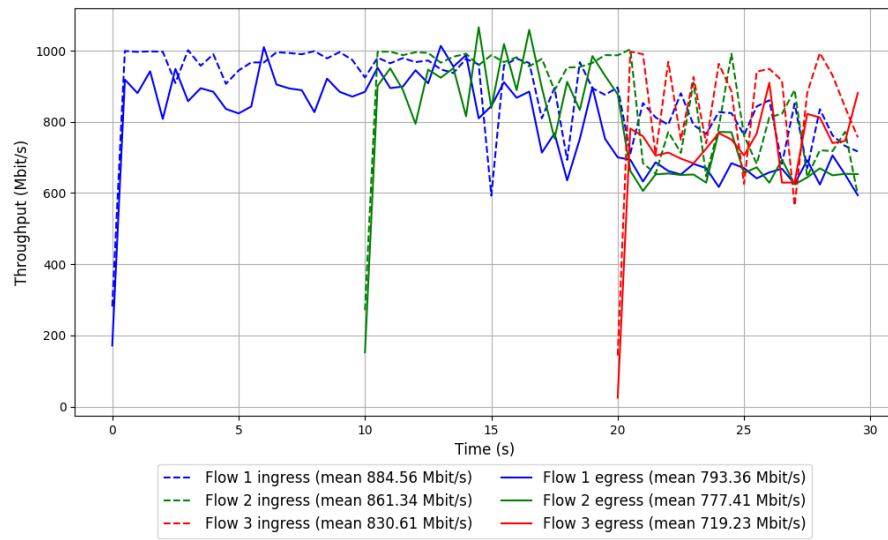


```
Run 2: Statistics of FillP

Start at: 2018-01-09 22:45:39
End at: 2018-01-09 22:46:09

# Below is generated by plot.py at 2018-01-10 03:36:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1548.84 Mbit/s
95th percentile per-packet one-way delay: 281.602 ms
Loss rate: 10.63%
-- Flow 1:
Average throughput: 793.36 Mbit/s
95th percentile per-packet one-way delay: 271.501 ms
Loss rate: 10.31%
-- Flow 2:
Average throughput: 777.41 Mbit/s
95th percentile per-packet one-way delay: 287.300 ms
Loss rate: 9.75%
-- Flow 3:
Average throughput: 719.23 Mbit/s
95th percentile per-packet one-way delay: 309.375 ms
Loss rate: 13.48%
```

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-01-09 22:59:18

End at: 2018-01-09 22:59:48

Below is generated by plot.py at 2018-01-10 03:37:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 1585.72 Mbit/s

95th percentile per-packet one-way delay: 271.860 ms

Loss rate: 8.76%

-- Flow 1:

Average throughput: 879.09 Mbit/s

95th percentile per-packet one-way delay: 254.254 ms

Loss rate: 4.65%

-- Flow 2:

Average throughput: 741.30 Mbit/s

95th percentile per-packet one-way delay: 275.454 ms

Loss rate: 11.51%

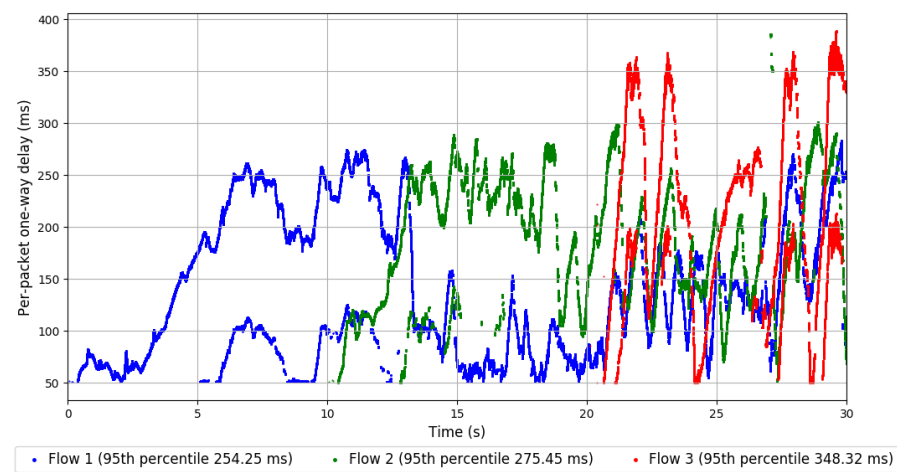
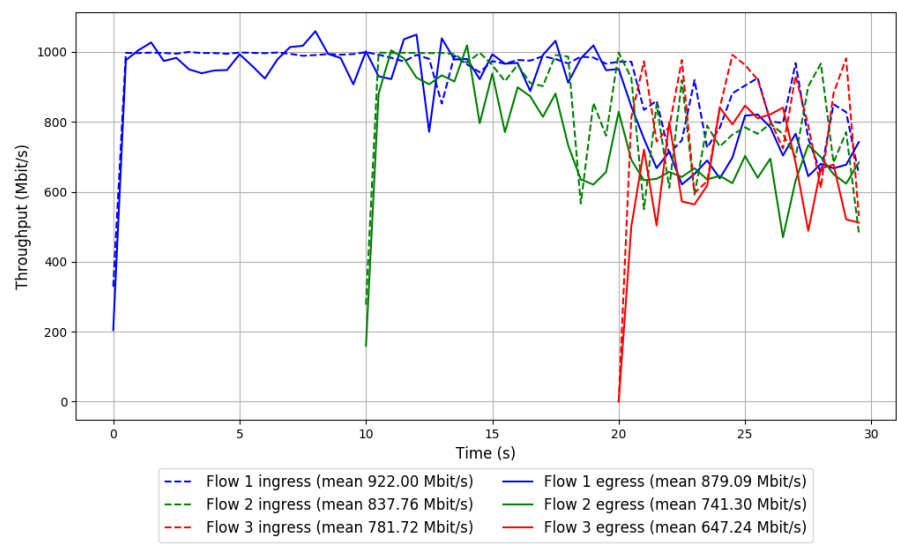
-- Flow 3:

Average throughput: 647.24 Mbit/s

95th percentile per-packet one-way delay: 348.319 ms

Loss rate: 17.49%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-01-09 23:13:07

End at: 2018-01-09 23:13:37

Below is generated by plot.py at 2018-01-10 03:37:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 1528.23 Mbit/s

95th percentile per-packet one-way delay: 301.586 ms

Loss rate: 11.76%

-- Flow 1:

Average throughput: 792.47 Mbit/s

95th percentile per-packet one-way delay: 284.900 ms

Loss rate: 10.24%

-- Flow 2:

Average throughput: 768.55 Mbit/s

95th percentile per-packet one-way delay: 318.924 ms

Loss rate: 12.01%

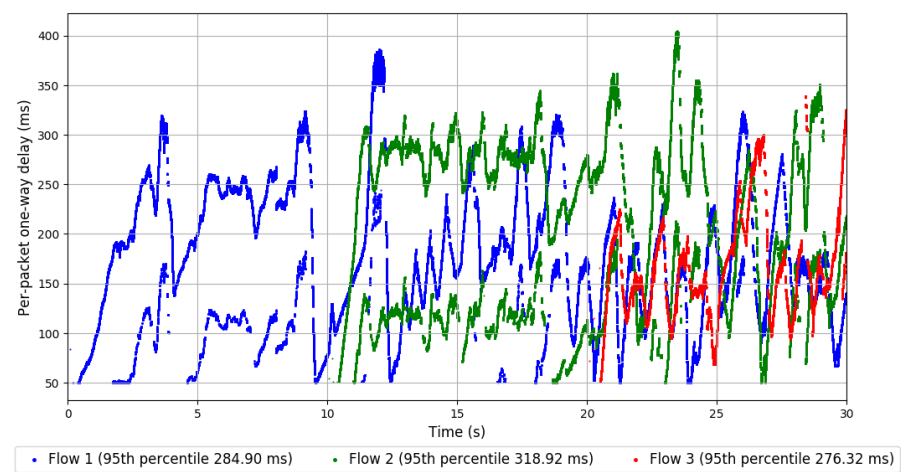
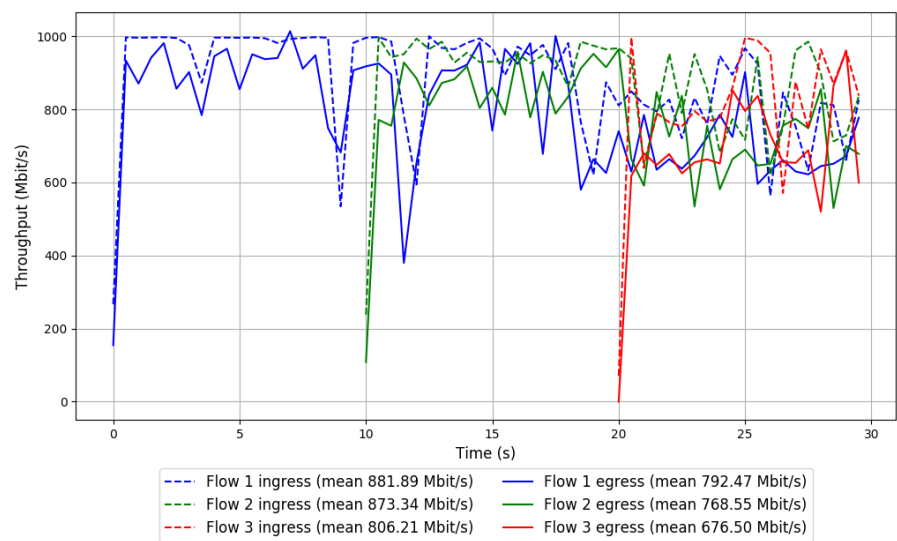
-- Flow 3:

Average throughput: 676.50 Mbit/s

95th percentile per-packet one-way delay: 276.320 ms

Loss rate: 16.26%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-01-09 23:27:00

End at: 2018-01-09 23:27:30

Below is generated by plot.py at 2018-01-10 03:39:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 1636.17 Mbit/s

95th percentile per-packet one-way delay: 272.156 ms

Loss rate: 7.34%

-- Flow 1:

Average throughput: 862.07 Mbit/s

95th percentile per-packet one-way delay: 267.807 ms

Loss rate: 7.82%

-- Flow 2:

Average throughput: 867.12 Mbit/s

95th percentile per-packet one-way delay: 265.410 ms

Loss rate: 4.98%

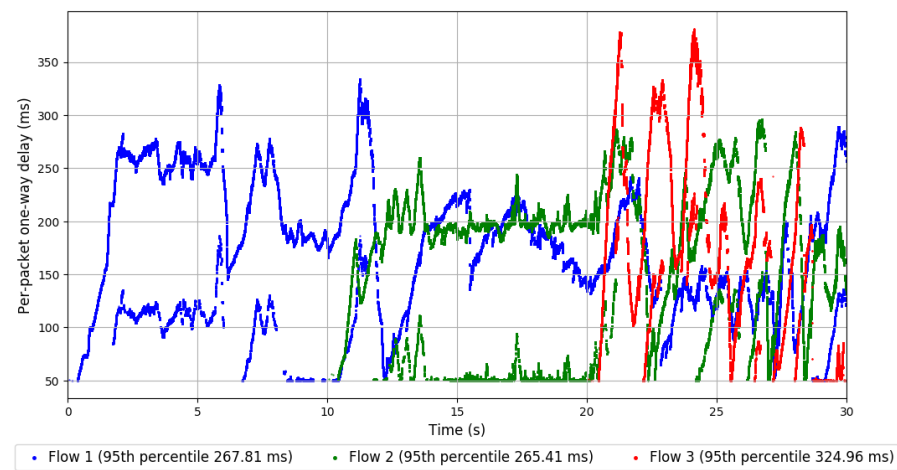
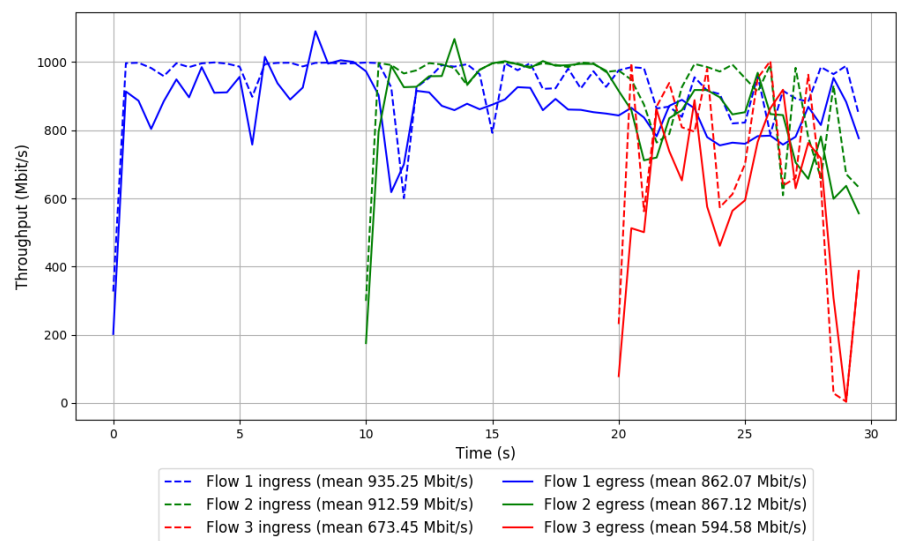
-- Flow 3:

Average throughput: 594.58 Mbit/s

95th percentile per-packet one-way delay: 324.962 ms

Loss rate: 11.72%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-01-09 23:40:34

End at: 2018-01-09 23:41:04

Below is generated by plot.py at 2018-01-10 03:39:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 1291.66 Mbit/s

95th percentile per-packet one-way delay: 311.272 ms

Loss rate: 8.82%

-- Flow 1:

Average throughput: 805.93 Mbit/s

95th percentile per-packet one-way delay: 311.370 ms

Loss rate: 10.12%

-- Flow 2:

Average throughput: 341.71 Mbit/s

95th percentile per-packet one-way delay: 265.728 ms

Loss rate: 1.74%

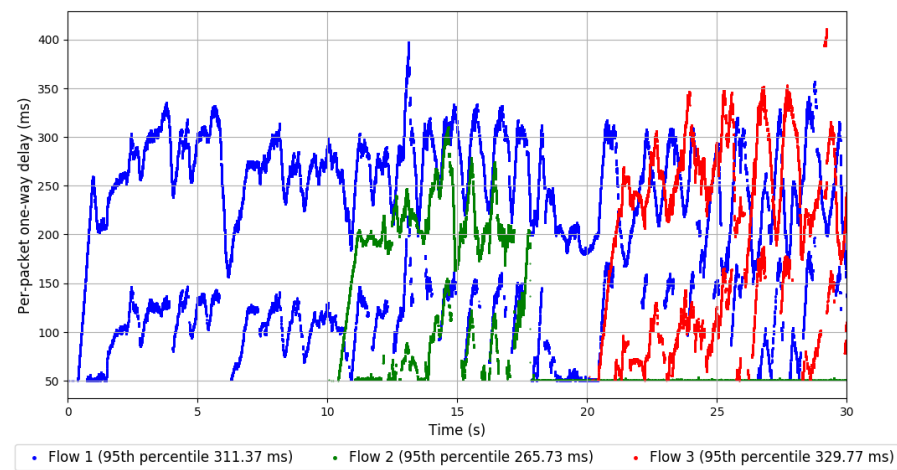
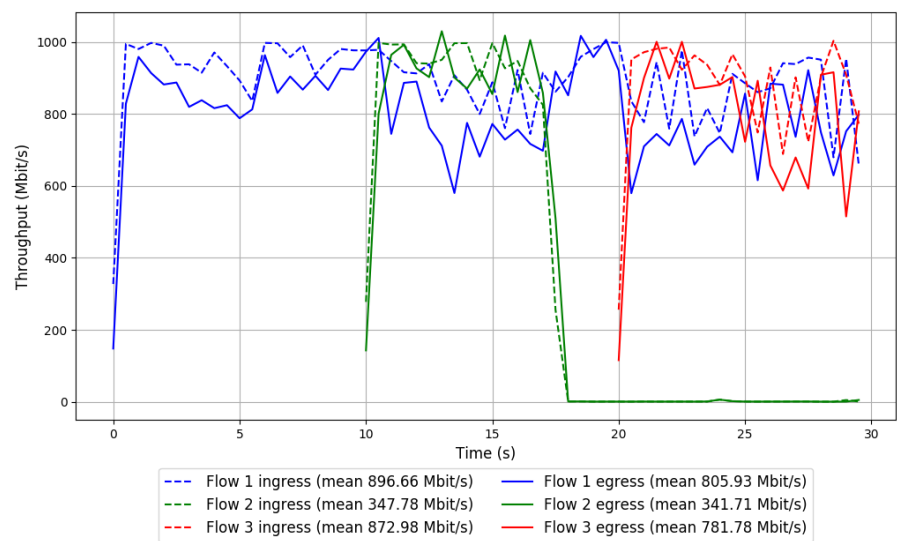
-- Flow 3:

Average throughput: 781.78 Mbit/s

95th percentile per-packet one-way delay: 329.771 ms

Loss rate: 10.48%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-01-09 23:54:17

End at: 2018-01-09 23:54:47

Below is generated by plot.py at 2018-01-10 03:39:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 1566.06 Mbit/s

95th percentile per-packet one-way delay: 278.470 ms

Loss rate: 9.91%

-- Flow 1:

Average throughput: 863.87 Mbit/s

95th percentile per-packet one-way delay: 275.196 ms

Loss rate: 6.40%

-- Flow 2:

Average throughput: 708.89 Mbit/s

95th percentile per-packet one-way delay: 264.547 ms

Loss rate: 13.59%

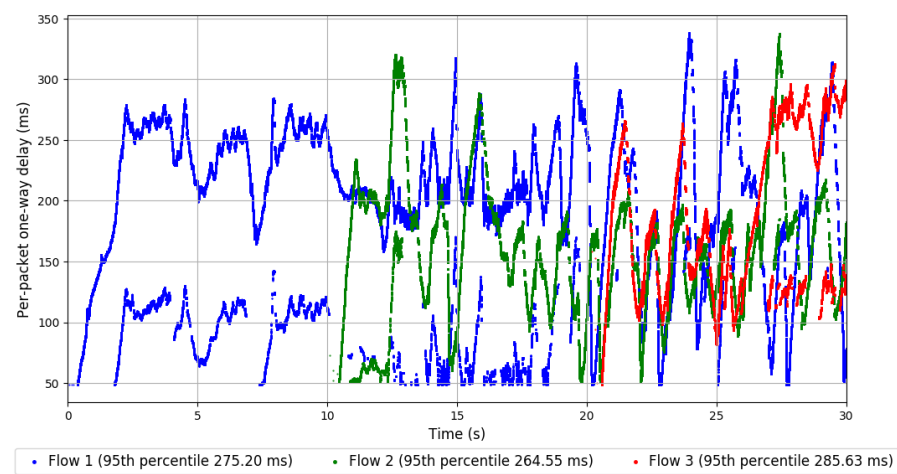
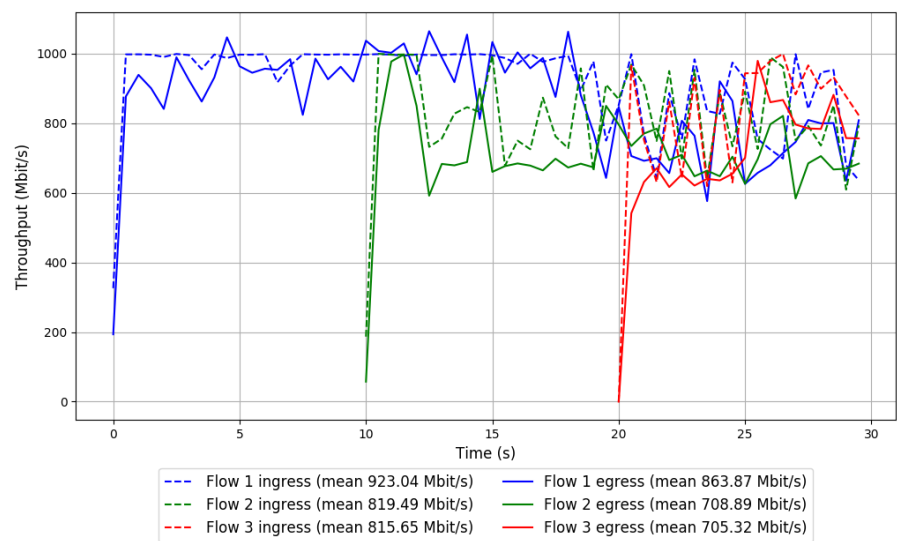
-- Flow 3:

Average throughput: 705.32 Mbit/s

95th percentile per-packet one-way delay: 285.630 ms

Loss rate: 14.47%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-01-10 00:07:46

End at: 2018-01-10 00:08:16

Below is generated by plot.py at 2018-01-10 03:40:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 1544.22 Mbit/s

95th percentile per-packet one-way delay: 273.175 ms

Loss rate: 9.31%

-- Flow 1:

Average throughput: 841.40 Mbit/s

95th percentile per-packet one-way delay: 268.908 ms

Loss rate: 7.62%

-- Flow 2:

Average throughput: 688.04 Mbit/s

95th percentile per-packet one-way delay: 269.071 ms

Loss rate: 10.88%

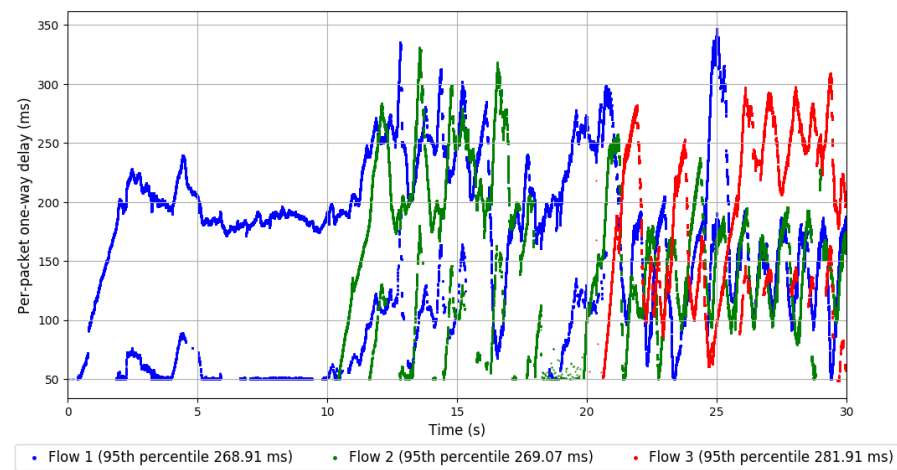
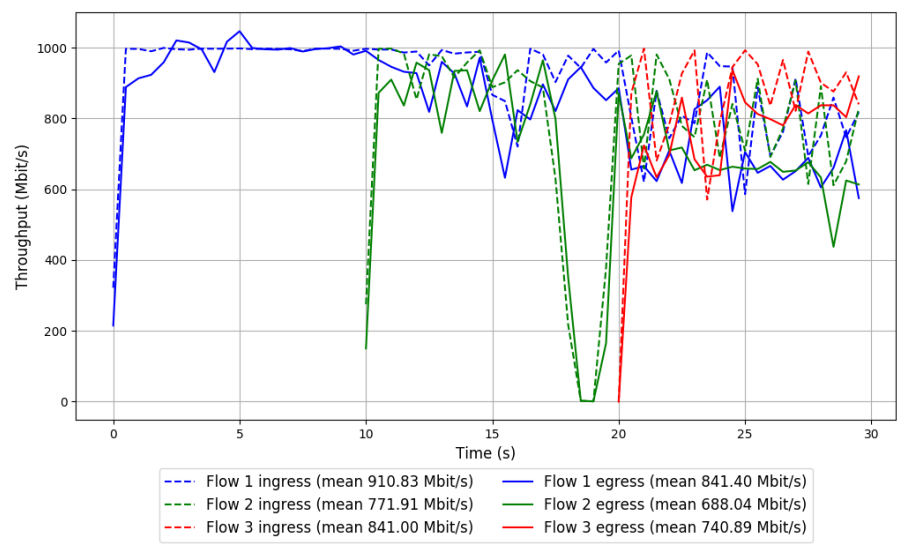
-- Flow 3:

Average throughput: 740.89 Mbit/s

95th percentile per-packet one-way delay: 281.906 ms

Loss rate: 11.95%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-01-10 00:21:32

End at: 2018-01-10 00:22:02

Below is generated by plot.py at 2018-01-10 03:48:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 1482.30 Mbit/s

95th percentile per-packet one-way delay: 292.512 ms

Loss rate: 9.79%

-- Flow 1:

Average throughput: 801.88 Mbit/s

95th percentile per-packet one-way delay: 294.096 ms

Loss rate: 10.65%

-- Flow 2:

Average throughput: 634.81 Mbit/s

95th percentile per-packet one-way delay: 265.976 ms

Loss rate: 6.98%

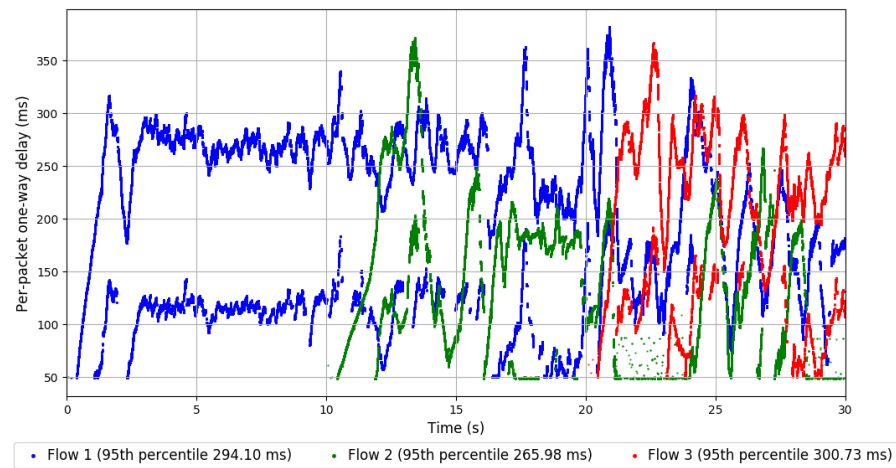
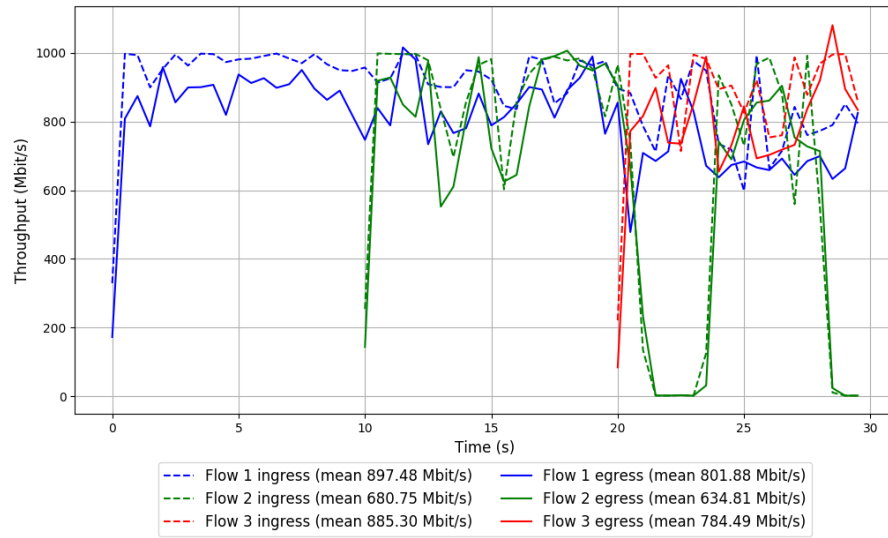
-- Flow 3:

Average throughput: 784.49 Mbit/s

95th percentile per-packet one-way delay: 300.725 ms

Loss rate: 11.49%

Run 9: Report of FillP — Data Link

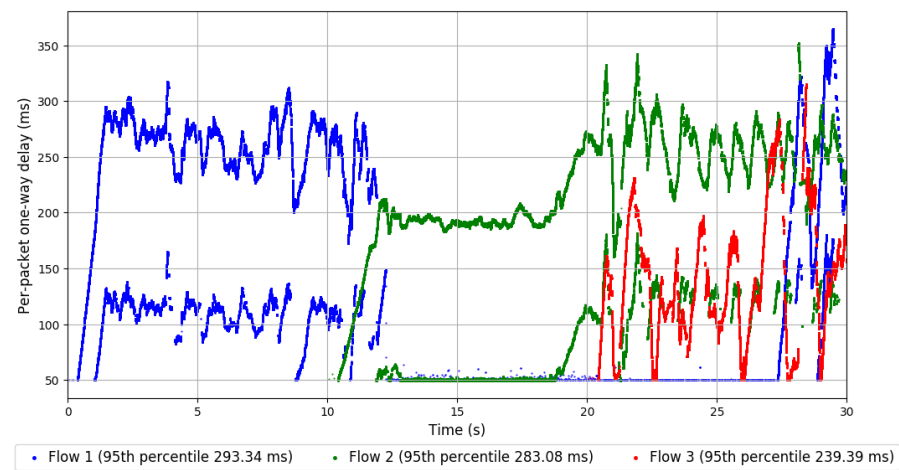
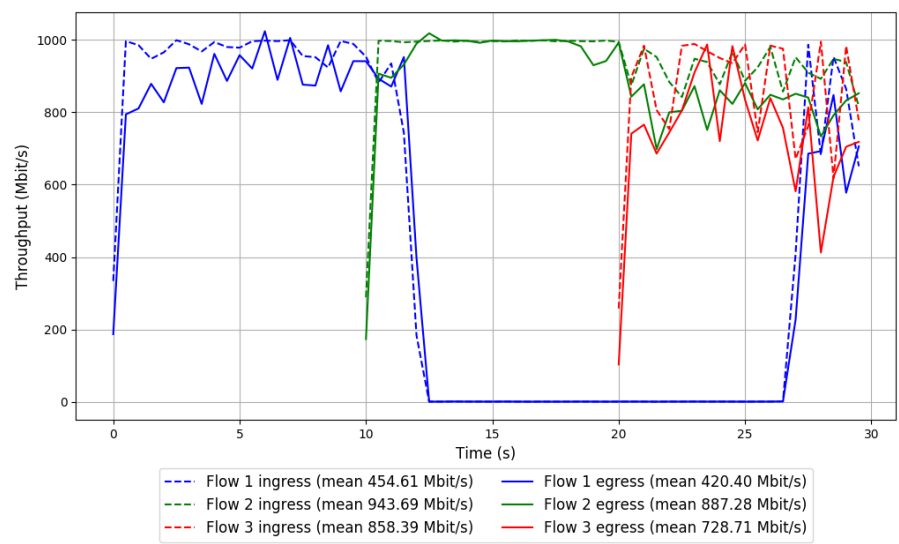


```
Run 10: Statistics of FillP

Start at: 2018-01-10 00:35:25
End at: 2018-01-10 00:35:55

# Below is generated by plot.py at 2018-01-10 03:48:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1252.06 Mbit/s
95th percentile per-packet one-way delay: 286.982 ms
Loss rate: 8.40%
-- Flow 1:
Average throughput: 420.40 Mbit/s
95th percentile per-packet one-way delay: 293.342 ms
Loss rate: 7.53%
-- Flow 2:
Average throughput: 887.28 Mbit/s
95th percentile per-packet one-way delay: 283.076 ms
Loss rate: 5.98%
-- Flow 3:
Average throughput: 728.71 Mbit/s
95th percentile per-packet one-way delay: 239.387 ms
Loss rate: 15.12%
```

Run 10: Report of FillP — Data Link

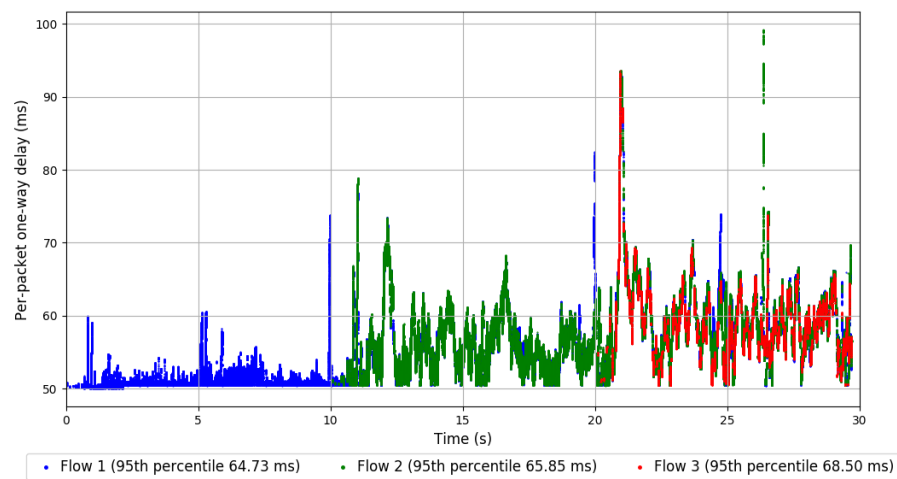
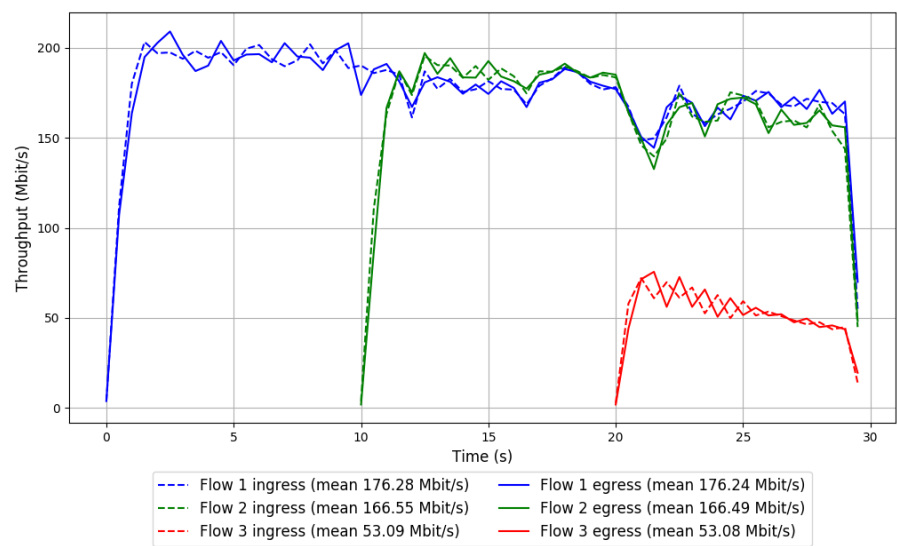


```
Run 1: Statistics of Indigo

Start at: 2018-01-09 22:37:03
End at: 2018-01-09 22:37:33

# Below is generated by plot.py at 2018-01-10 03:48:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 303.54 Mbit/s
95th percentile per-packet one-way delay: 65.376 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 176.24 Mbit/s
95th percentile per-packet one-way delay: 64.730 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 166.49 Mbit/s
95th percentile per-packet one-way delay: 65.850 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 53.08 Mbit/s
95th percentile per-packet one-way delay: 68.497 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo — Data Link

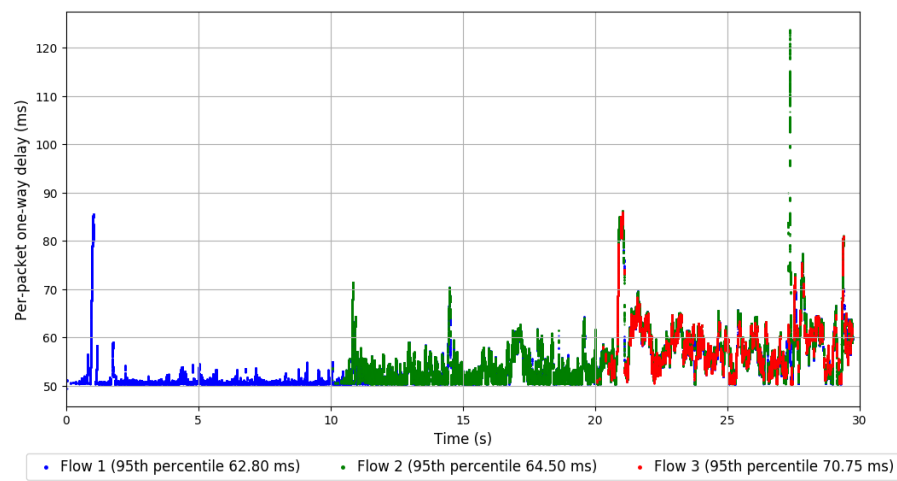
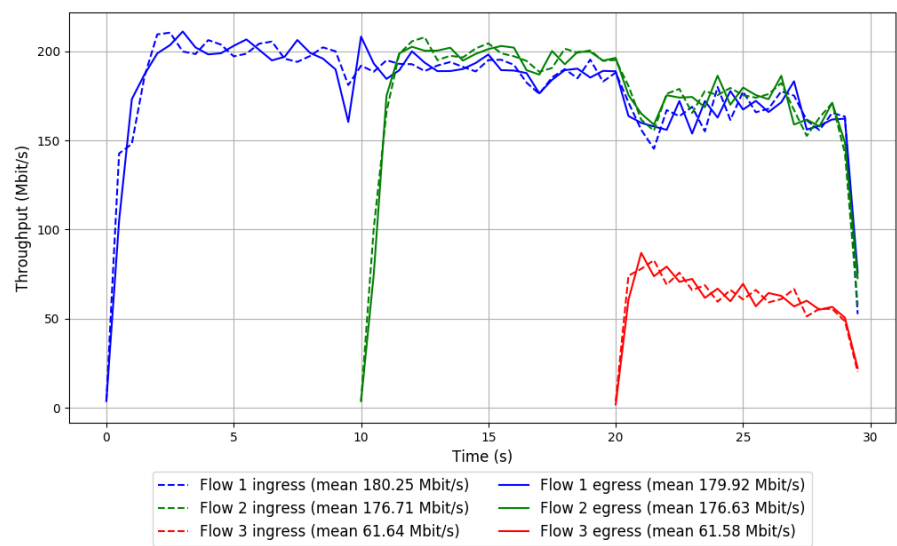


```
Run 2: Statistics of Indigo

Start at: 2018-01-09 22:50:54
End at: 2018-01-09 22:51:24

# Below is generated by plot.py at 2018-01-10 03:48:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 317.01 Mbit/s
95th percentile per-packet one-way delay: 64.049 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 179.92 Mbit/s
95th percentile per-packet one-way delay: 62.801 ms
Loss rate: 0.15%
-- Flow 2:
Average throughput: 176.63 Mbit/s
95th percentile per-packet one-way delay: 64.499 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 61.58 Mbit/s
95th percentile per-packet one-way delay: 70.750 ms
Loss rate: 0.00%
```

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2018-01-09 23:04:34

End at: 2018-01-09 23:05:04

Below is generated by plot.py at 2018-01-10 03:48:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 316.89 Mbit/s

95th percentile per-packet one-way delay: 65.368 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 179.49 Mbit/s

95th percentile per-packet one-way delay: 63.846 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 175.81 Mbit/s

95th percentile per-packet one-way delay: 67.015 ms

Loss rate: 0.01%

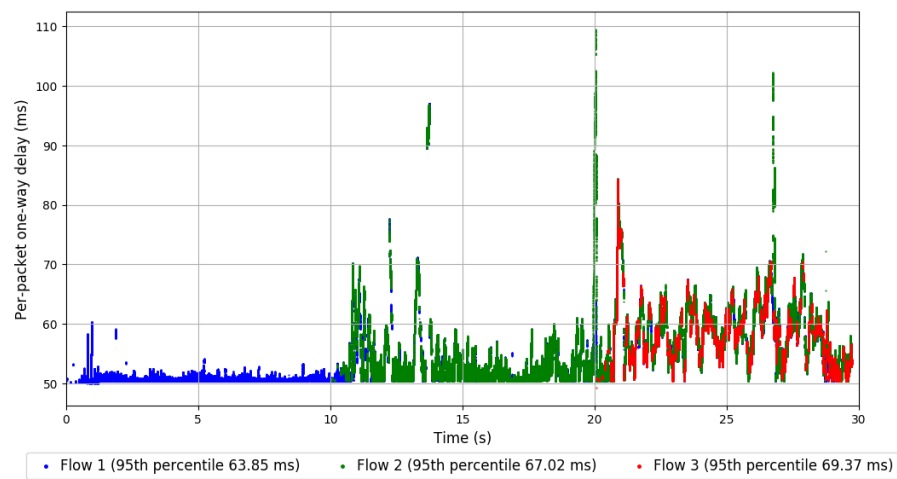
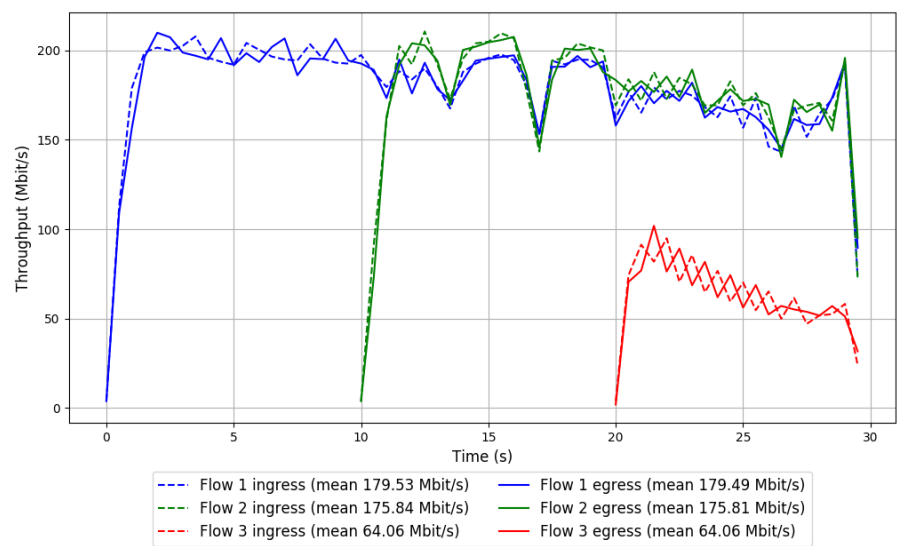
-- Flow 3:

Average throughput: 64.06 Mbit/s

95th percentile per-packet one-way delay: 69.374 ms

Loss rate: 0.01%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2018-01-09 23:18:21

End at: 2018-01-09 23:18:51

Below is generated by plot.py at 2018-01-10 03:48:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 326.21 Mbit/s

95th percentile per-packet one-way delay: 66.292 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 181.54 Mbit/s

95th percentile per-packet one-way delay: 64.288 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 179.92 Mbit/s

95th percentile per-packet one-way delay: 66.460 ms

Loss rate: 0.00%

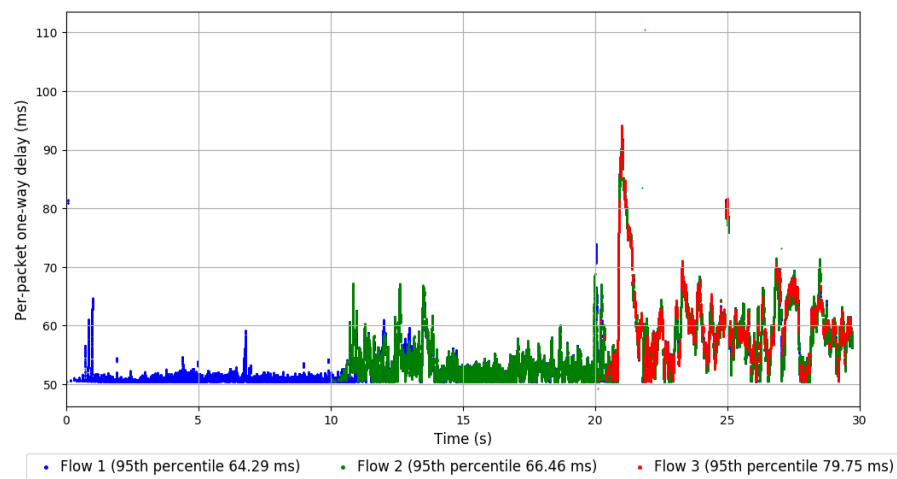
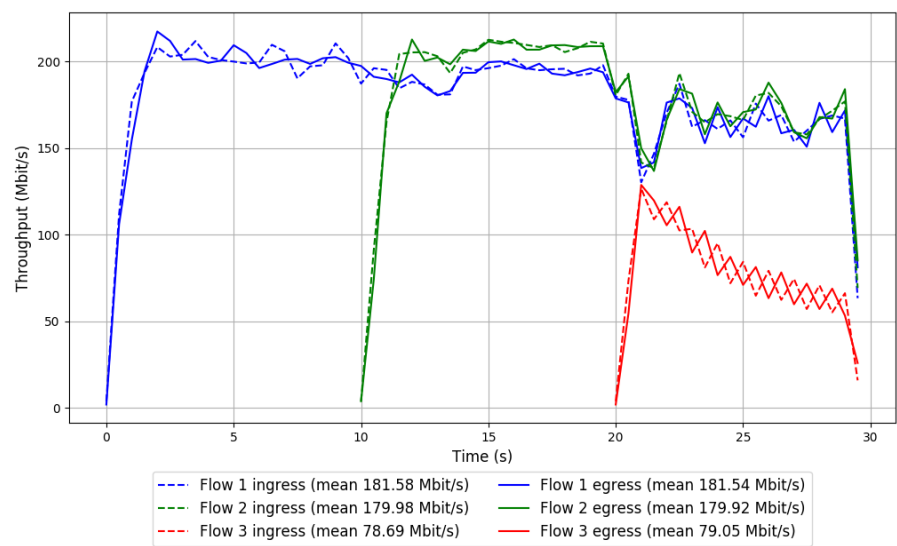
-- Flow 3:

Average throughput: 79.05 Mbit/s

95th percentile per-packet one-way delay: 79.749 ms

Loss rate: 0.19%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2018-01-09 23:32:09

End at: 2018-01-09 23:32:39

Below is generated by plot.py at 2018-01-10 03:48:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 275.13 Mbit/s

95th percentile per-packet one-way delay: 68.227 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 165.78 Mbit/s

95th percentile per-packet one-way delay: 67.375 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 155.98 Mbit/s

95th percentile per-packet one-way delay: 69.116 ms

Loss rate: 0.05%

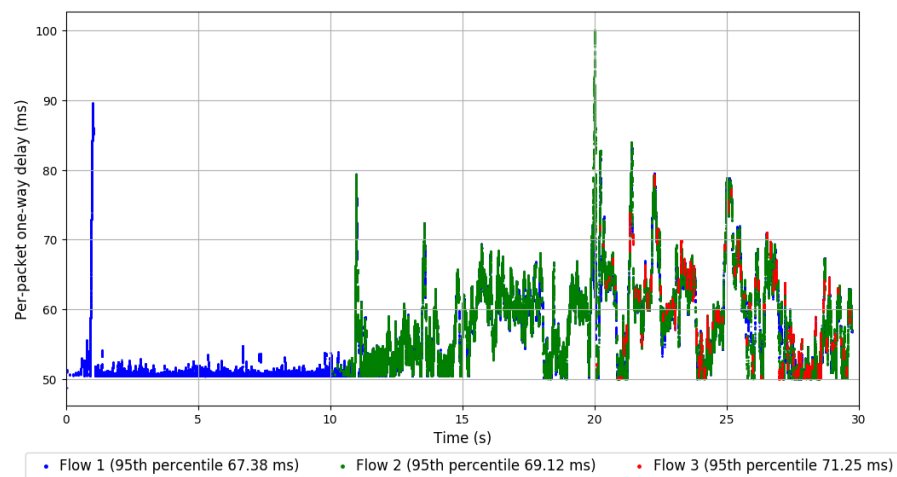
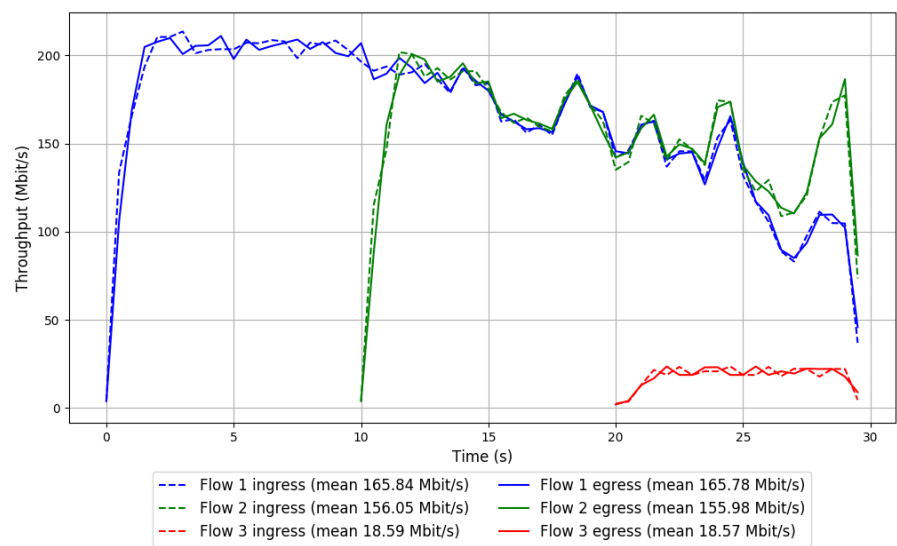
-- Flow 3:

Average throughput: 18.57 Mbit/s

95th percentile per-packet one-way delay: 71.248 ms

Loss rate: 0.00%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2018-01-09 23:45:40

End at: 2018-01-09 23:46:10

Below is generated by plot.py at 2018-01-10 03:48:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 344.55 Mbit/s

95th percentile per-packet one-way delay: 66.678 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 175.83 Mbit/s

95th percentile per-packet one-way delay: 64.366 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 179.95 Mbit/s

95th percentile per-packet one-way delay: 66.234 ms

Loss rate: 0.00%

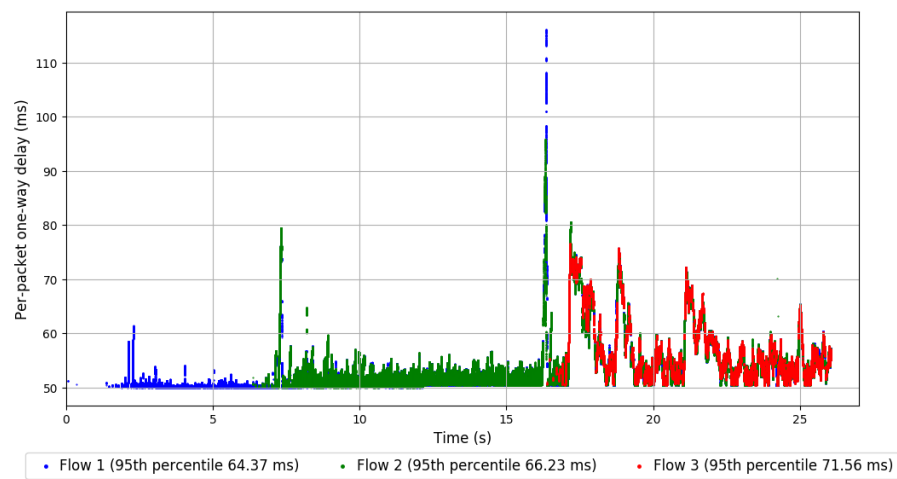
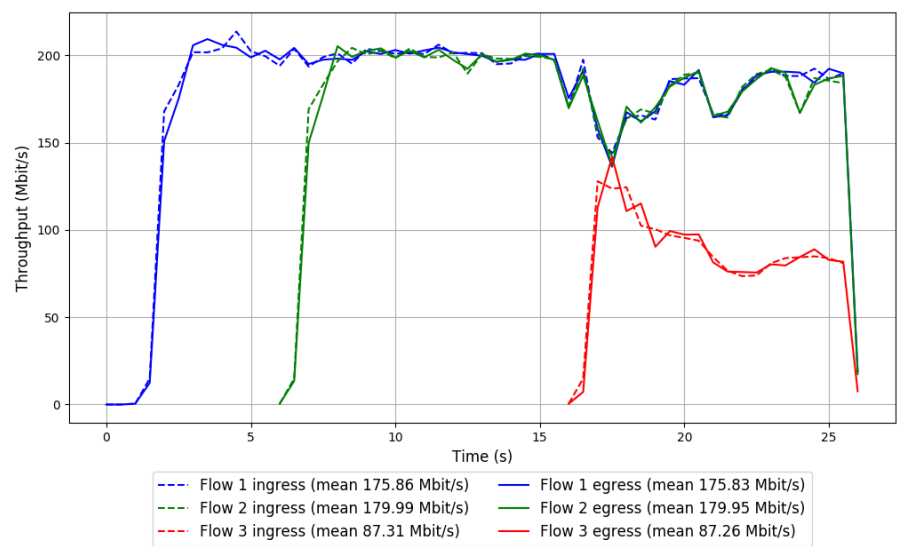
-- Flow 3:

Average throughput: 87.26 Mbit/s

95th percentile per-packet one-way delay: 71.561 ms

Loss rate: 0.00%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2018-01-09 23:59:30

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

Below is generated by plot.py at 2018-01-10 03:48:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 318.21 Mbit/s

95th percentile per-packet one-way delay: 67.833 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 178.22 Mbit/s

95th percentile per-packet one-way delay: 66.177 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 169.20 Mbit/s

95th percentile per-packet one-way delay: 68.908 ms

Loss rate: 0.03%

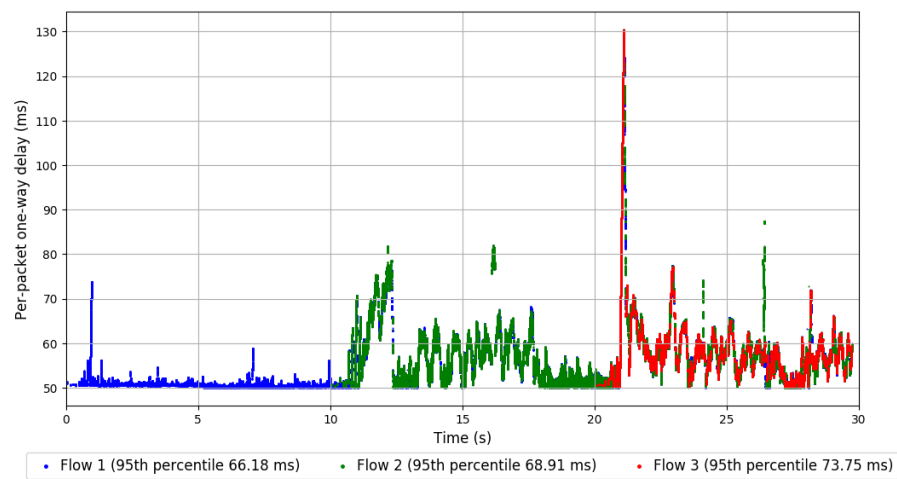
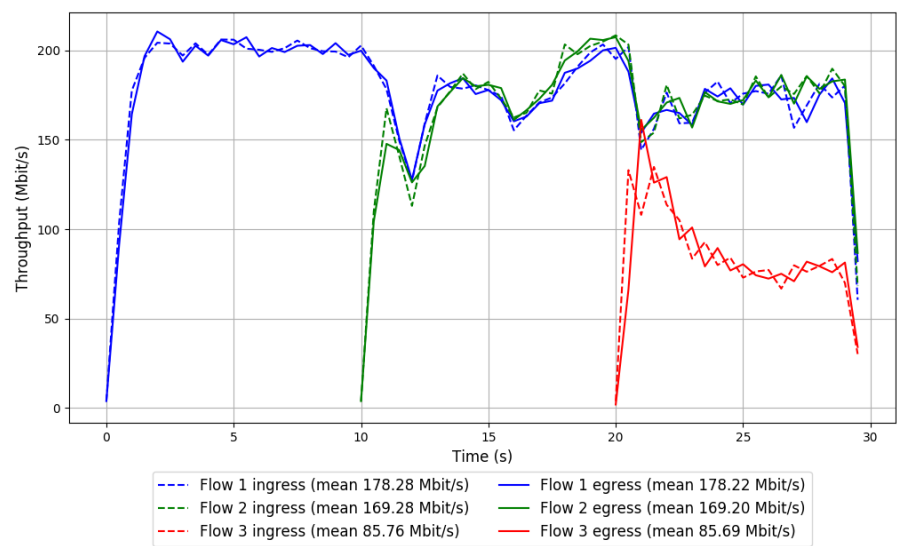
-- Flow 3:

Average throughput: 85.69 Mbit/s

95th percentile per-packet one-way delay: 73.752 ms

Loss rate: 0.00%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2018-01-10 00:13:03

End at: 2018-01-10 00:13:33

Below is generated by plot.py at 2018-01-10 03:48:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 321.60 Mbit/s

95th percentile per-packet one-way delay: 68.259 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 176.31 Mbit/s

95th percentile per-packet one-way delay: 63.709 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 172.67 Mbit/s

95th percentile per-packet one-way delay: 70.002 ms

Loss rate: 0.04%

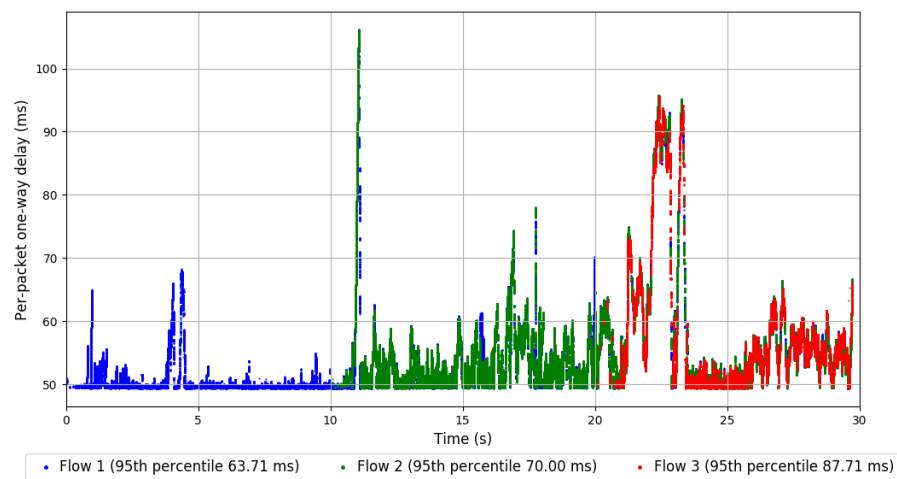
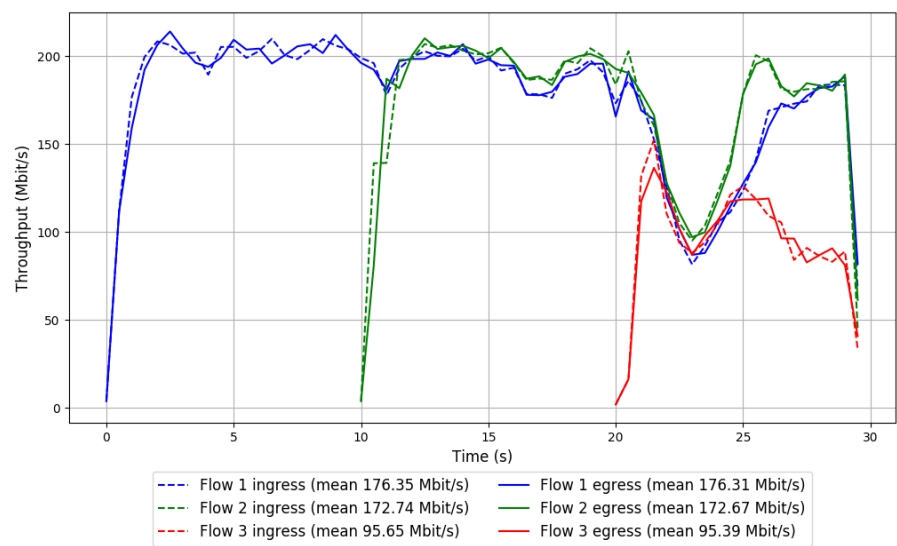
-- Flow 3:

Average throughput: 95.39 Mbit/s

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

Loss rate: 0.24%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2018-01-10 00:26:49

End at: 2018-01-10 00:27:19

Below is generated by plot.py at 2018-01-10 03:48:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 328.46 Mbit/s

95th percentile per-packet one-way delay: 64.416 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 181.43 Mbit/s

95th percentile per-packet one-way delay: 63.422 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 179.41 Mbit/s

95th percentile per-packet one-way delay: 65.076 ms

Loss rate: 0.05%

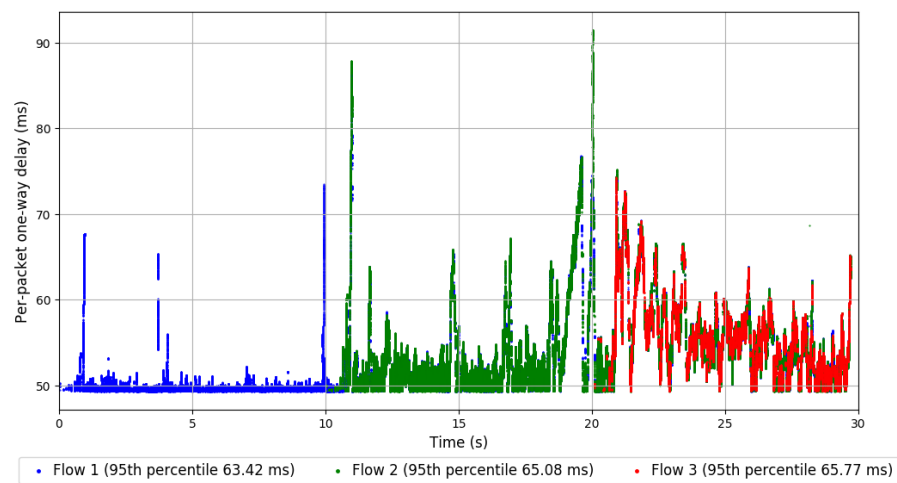
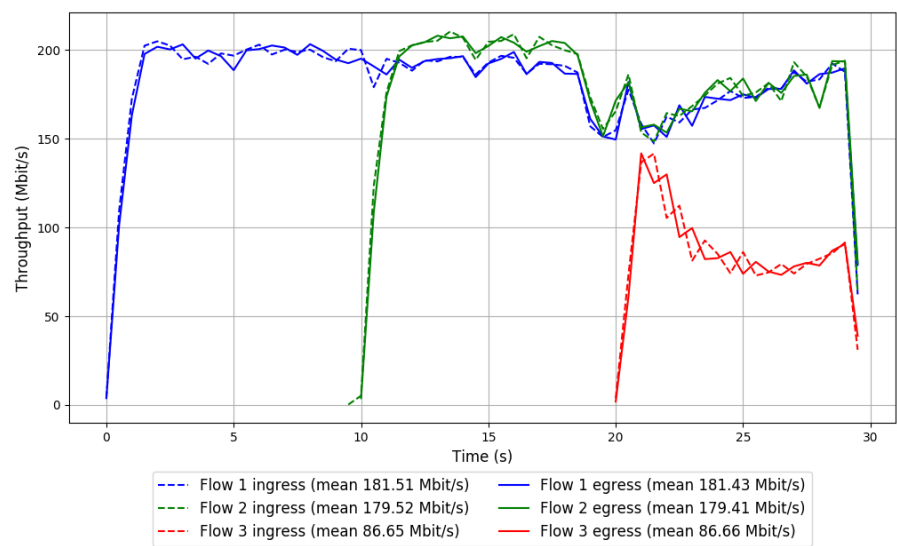
-- Flow 3:

Average throughput: 86.66 Mbit/s

95th percentile per-packet one-way delay: 65.769 ms

Loss rate: 0.15%

Run 9: Report of Indigo — Data Link



```
Run 10: Statistics of Indigo

Start at: 2018-01-10 00:40:26
End at: 2018-01-10 00:40:56

# Below is generated by plot.py at 2018-01-10 03:48:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 326.36 Mbit/s
95th percentile per-packet one-way delay: 63.537 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 184.05 Mbit/s
95th percentile per-packet one-way delay: 62.291 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 182.01 Mbit/s
95th percentile per-packet one-way delay: 65.301 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 67.87 Mbit/s
95th percentile per-packet one-way delay: 67.289 ms
Loss rate: 0.00%
```

Run 10: Report of Indigo — Data Link

