

Pantheon Report

Generated at 2017-11-22 01:32:28 (UTC).

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

Repeated the test of 14 congestion control schemes 10 times.

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

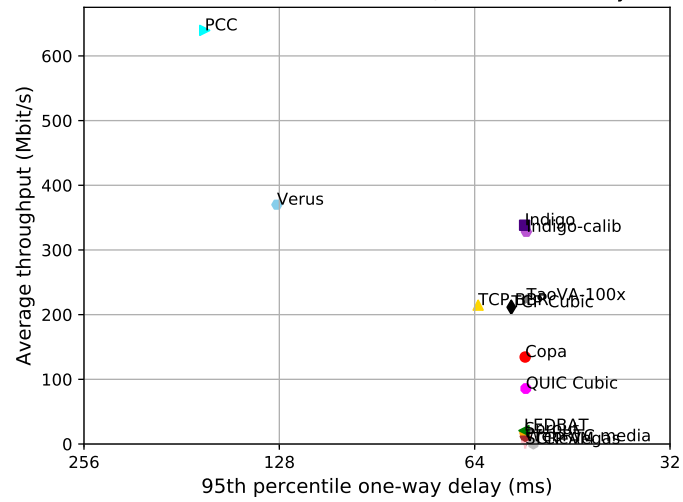
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

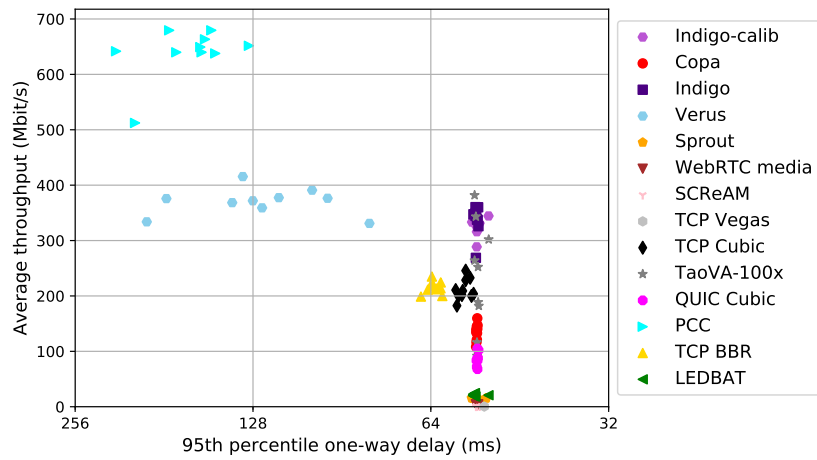
Git summary:

```
branch: indigos @ e3a57ad5ac5cfcaca0e3f983c8dd4cc3509e0262
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/genericCC @ b5b7c38e8391001927dc41c6cfa2627d03dde737
third_party/indigo @ b19f3730105f9aa95452552af924e3719b03cc55
third_party/indigo-cellular @ aee99e8eb842cb053f8c9a80e28cd256a930bbc2
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/indigo-no-cwnd @ 3e58442c04028a11d7b02456e137604633ba2d6c
third_party/indigo-no-delivery-rate @ 57caa40858b964906edff4876d5a7e5bfff666c5
third_party/indigo-no-queuing-delay @ 03455460fd1a8ffbdad86fabb936fdca204b80db
third_party/indigo-no-send-rate @ b39dfa6b2c5f19cb7cd89626cb4f5bb81f9fecda
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
  M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ baf443516dea3eeddeccaf9b916cc313273ca4f4
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-quirk @ 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 Sydney Ethernet to GCE Tokyo Ethernet, 10 runs of 30s each per scheme
3 flows with 10s interval between flows (mean of all runs by scheme)



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



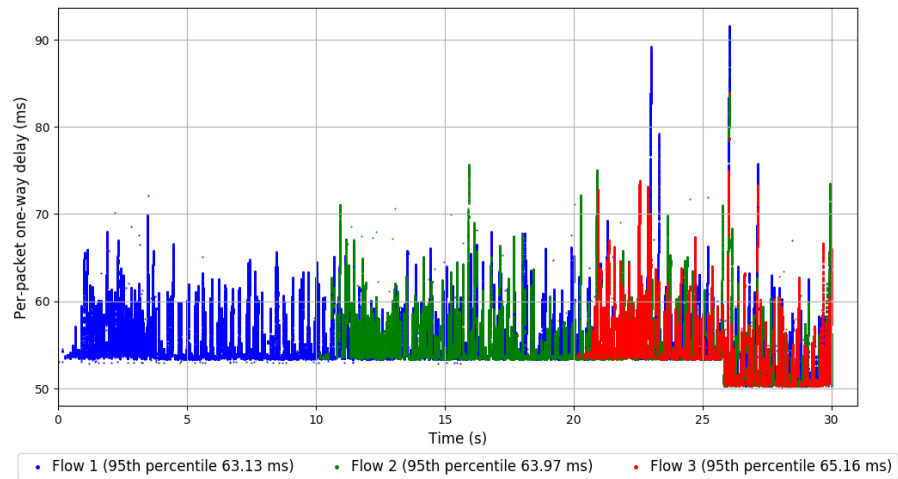
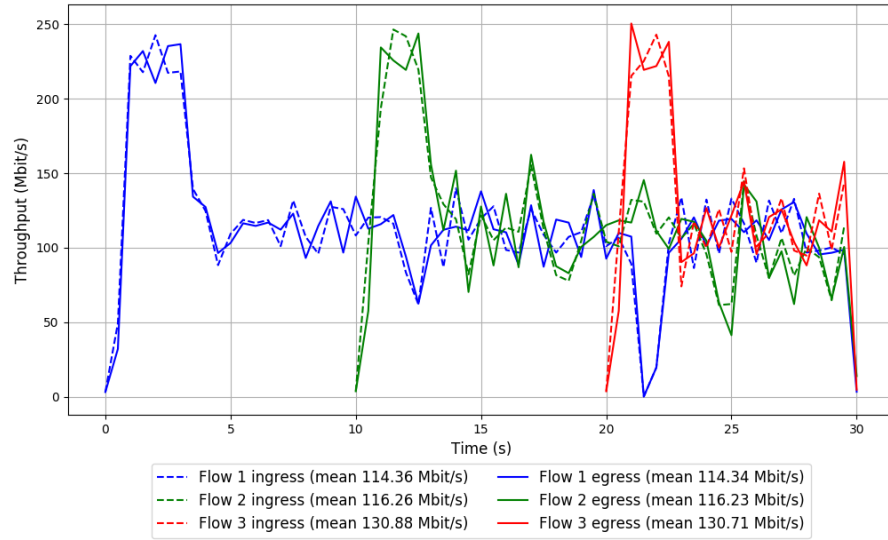
scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	10	107.92	107.87	105.79	62.60	63.86	63.68	0.03	0.05	0.01
TCP Cubic	10	110.32	101.35	101.72	56.35	55.90	55.25	0.01	0.01	0.01
LEDBAT	9	11.47	9.55	8.89	53.70	53.77	53.43	0.11	0.08	0.02
PCC	10	564.38	94.56	37.51	168.07	155.34	150.36	1.90	1.48	1.02
QUIC Cubic	10	54.09	36.63	22.62	52.72	52.45	52.42	0.00	0.01	0.00
SCReAM	7	0.43	0.21	0.22	230.57	53.11	51.07	0.00	0.00	0.00
WebRTC media	10	2.23	1.50	0.62	52.48	53.17	52.62	0.06	0.03	0.08
Sprout	10	7.78	7.80	7.34	53.64	53.15	53.02	0.11	0.06	0.03
TaoVA-100x	10	131.84	107.88	82.54	53.17	53.36	53.61	0.00	0.00	0.00
TCP Vegas	1	12.59	7.28	7.02	2763.38	51.93	51.98	0.00	0.00	0.00
Verus	10	223.47	156.55	131.75	119.36	133.06	144.99	0.47	1.53	2.35
Copa	10	71.28	71.26	61.47	53.49	52.64	52.35	0.00	0.01	0.00
Indigo	10	180.50	169.62	138.97	53.52	53.52	52.98	0.00	0.00	0.00
Indigo-calib	10	172.24	164.82	144.62	53.36	53.36	53.08	0.00	0.01	0.00

```
Run 1: Statistics of TCP BBR

Start at: 2017-11-21 21:29:13
End at: 2017-11-21 21:29:43

# Below is generated by plot.py at 2017-11-22 00:35:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 235.05 Mbit/s
95th percentile per-packet one-way delay: 63.742 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 114.34 Mbit/s
95th percentile per-packet one-way delay: 63.132 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 116.23 Mbit/s
95th percentile per-packet one-way delay: 63.968 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 130.71 Mbit/s
95th percentile per-packet one-way delay: 65.160 ms
Loss rate: 0.01%
```


Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2017-11-21 21:41:03

End at: 2017-11-21 21:41:33

Below is generated by plot.py at 2017-11-22 00:35:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 198.86 Mbit/s

95th percentile per-packet one-way delay: 66.512 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 96.95 Mbit/s

95th percentile per-packet one-way delay: 64.812 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 102.44 Mbit/s

95th percentile per-packet one-way delay: 67.957 ms

Loss rate: 0.15%

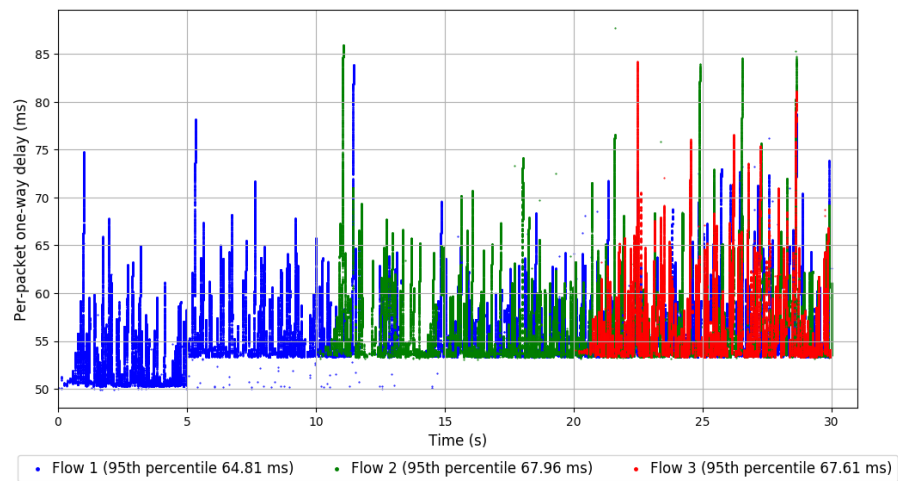
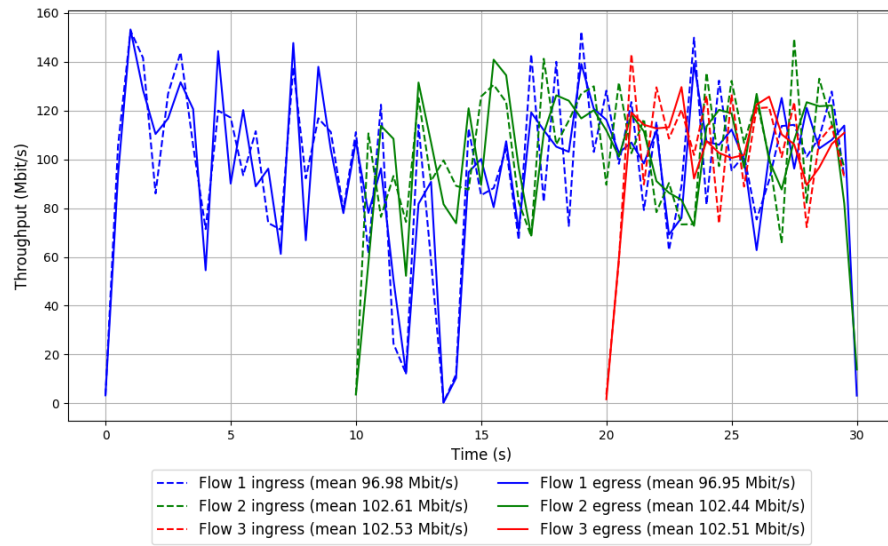
-- Flow 3:

Average throughput: 102.51 Mbit/s

95th percentile per-packet one-way delay: 67.611 ms

Loss rate: 0.02%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2017-11-21 21:53:15

End at: 2017-11-21 21:53:45

Below is generated by plot.py at 2017-11-22 00:35:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 212.06 Mbit/s

95th percentile per-packet one-way delay: 62.562 ms

Loss rate: 0.18%

-- Flow 1:

Average throughput: 106.31 Mbit/s

95th percentile per-packet one-way delay: 62.719 ms

Loss rate: 0.20%

-- Flow 2:

Average throughput: 106.33 Mbit/s

95th percentile per-packet one-way delay: 62.017 ms

Loss rate: 0.24%

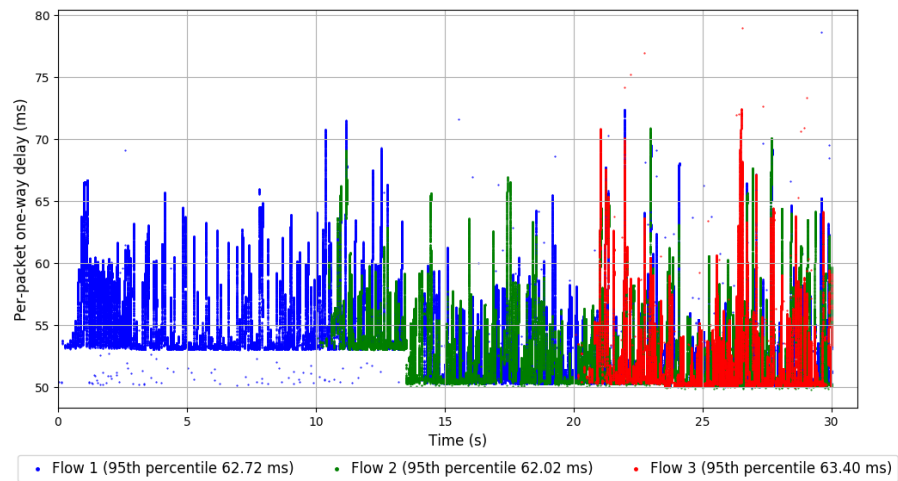
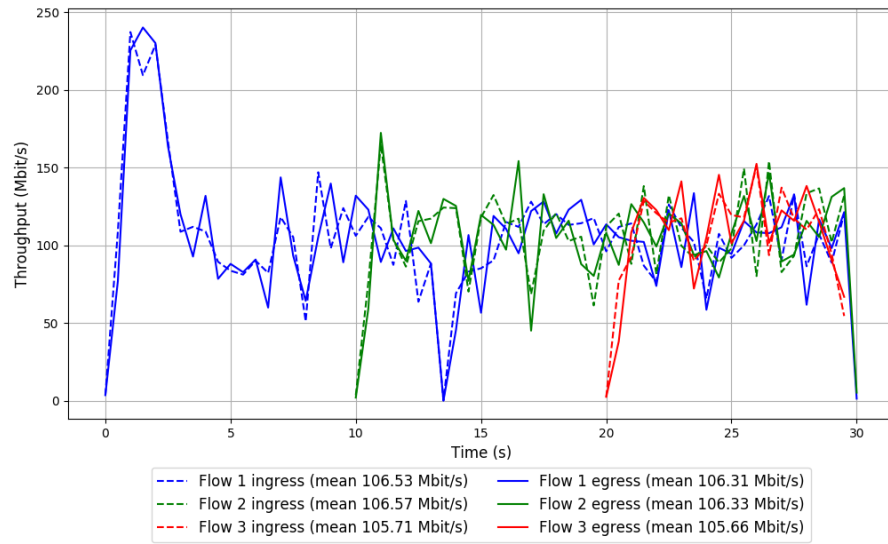
-- Flow 3:

Average throughput: 105.66 Mbit/s

95th percentile per-packet one-way delay: 63.403 ms

Loss rate: 0.00%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2017-11-21 22:05:17

End at: 2017-11-21 22:05:47

Below is generated by plot.py at 2017-11-22 00:35:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 199.90 Mbit/s

95th percentile per-packet one-way delay: 61.198 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 104.21 Mbit/s

95th percentile per-packet one-way delay: 60.293 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 96.07 Mbit/s

95th percentile per-packet one-way delay: 61.637 ms

Loss rate: 0.01%

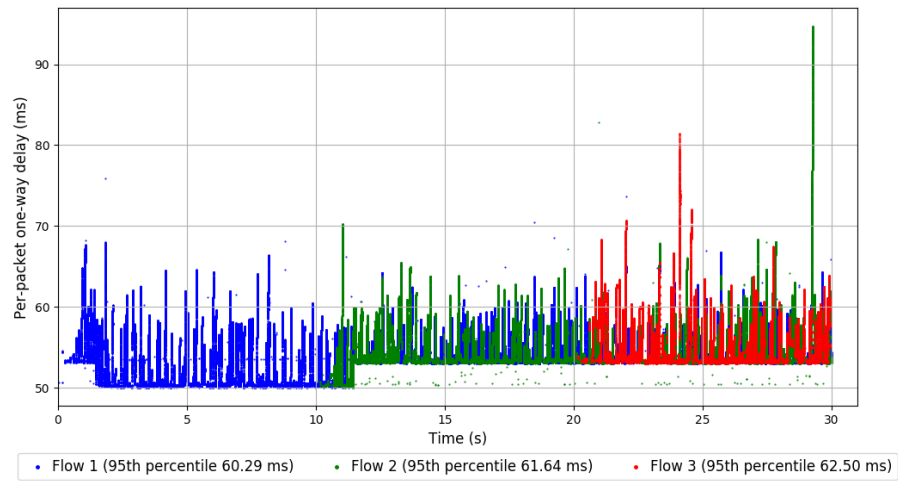
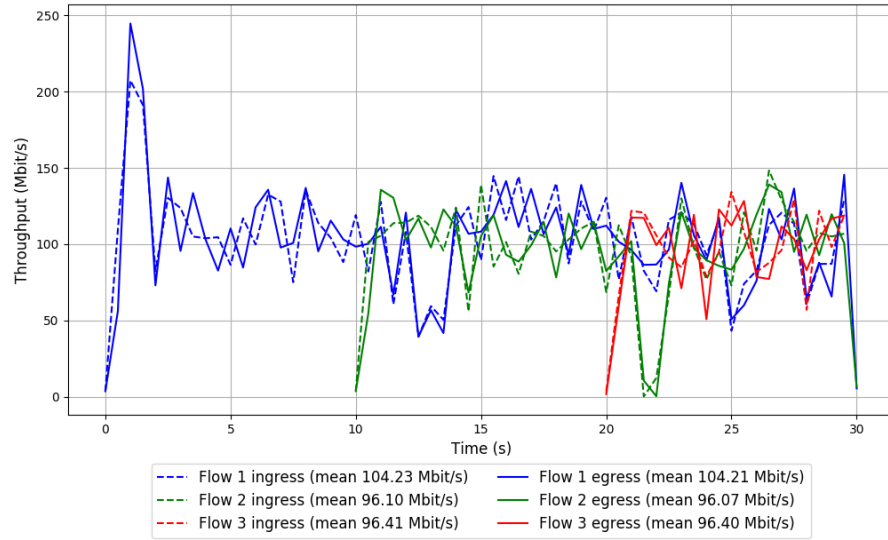
-- Flow 3:

Average throughput: 96.40 Mbit/s

95th percentile per-packet one-way delay: 62.497 ms

Loss rate: 0.00%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2017-11-21 22:17:21

End at: 2017-11-21 22:17:51

Below is generated by plot.py at 2017-11-22 00:35:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 211.43 Mbit/s

95th percentile per-packet one-way delay: 64.752 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 105.86 Mbit/s

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

Loss rate: 0.01%

-- Flow 2:

Average throughput: 107.68 Mbit/s

95th percentile per-packet one-way delay: 64.406 ms

Loss rate: 0.02%

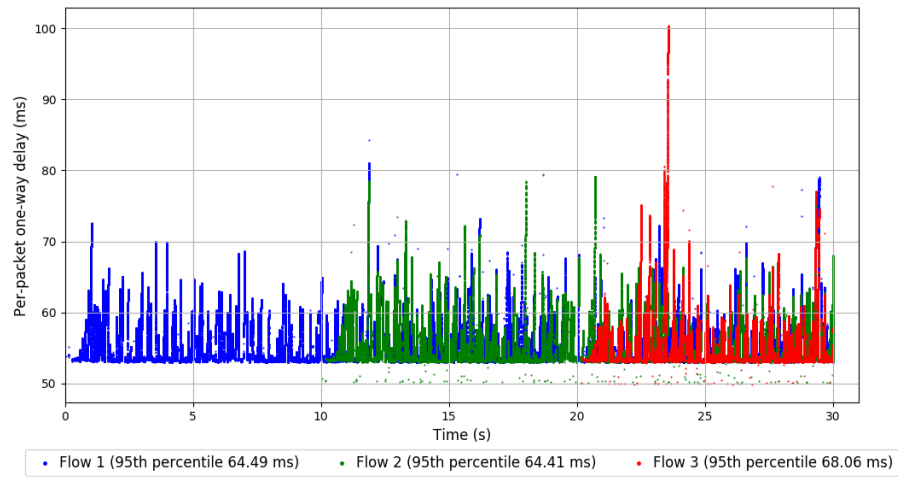
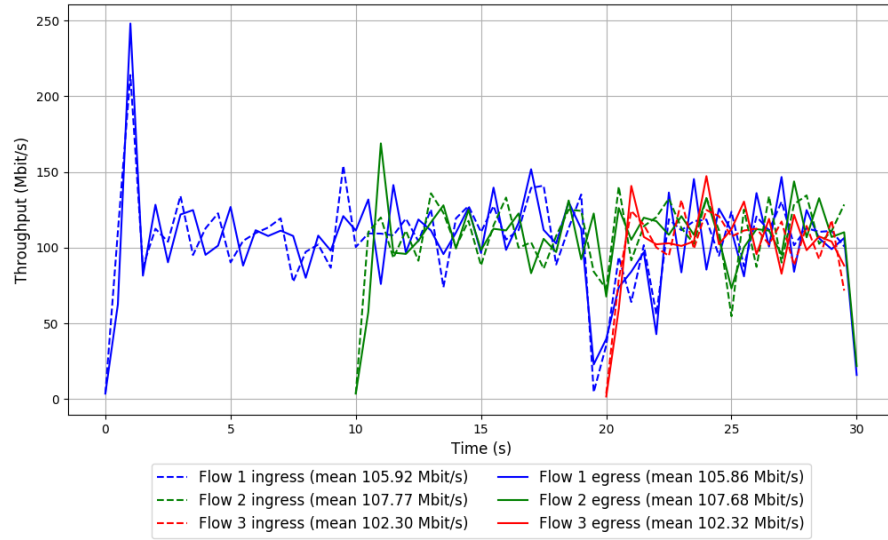
-- Flow 3:

Average throughput: 102.32 Mbit/s

95th percentile per-packet one-way delay: 68.062 ms

Loss rate: 0.01%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2017-11-21 22:29:37

End at: 2017-11-21 22:30:07

Below is generated by plot.py at 2017-11-22 00:35:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 213.31 Mbit/s

95th percentile per-packet one-way delay: 62.659 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 108.63 Mbit/s

95th percentile per-packet one-way delay: 62.637 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 107.49 Mbit/s

95th percentile per-packet one-way delay: 62.970 ms

Loss rate: 0.00%

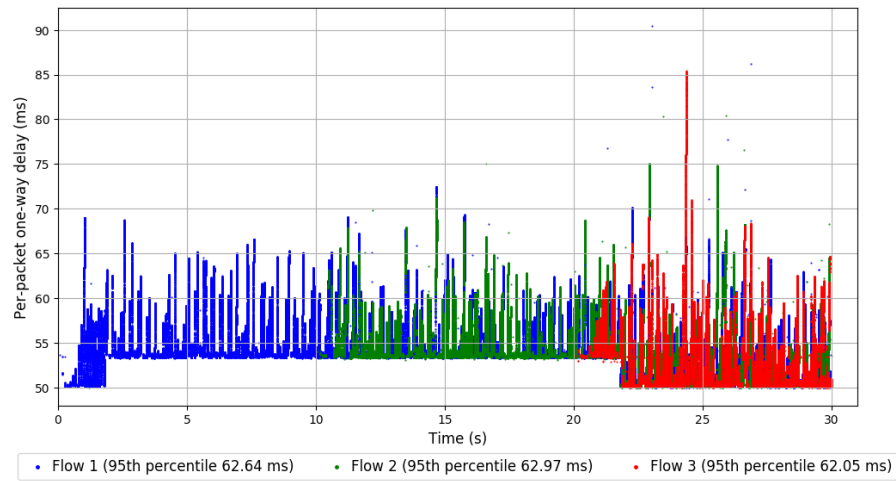
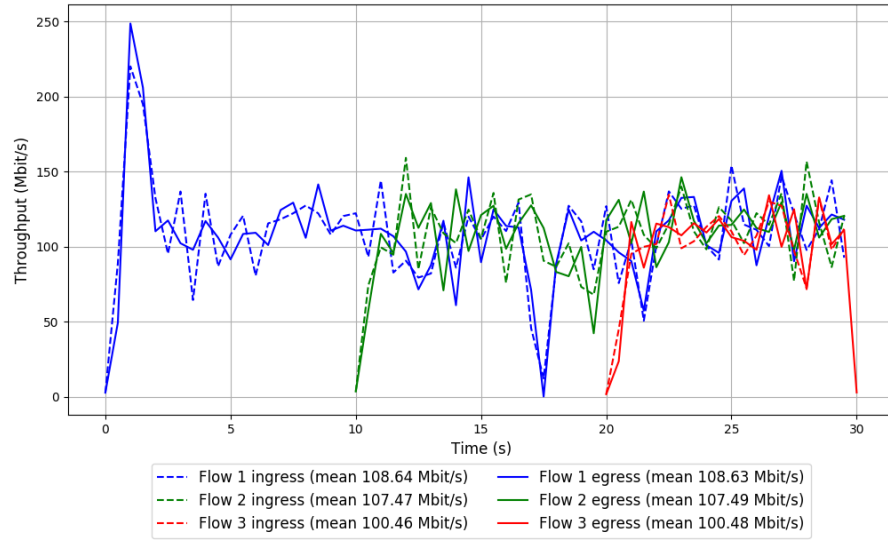
-- Flow 3:

Average throughput: 100.48 Mbit/s

95th percentile per-packet one-way delay: 62.051 ms

Loss rate: 0.00%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2017-11-21 22:41:46

End at: 2017-11-21 22:42:16

Below is generated by plot.py at 2017-11-22 00:35:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 213.81 Mbit/s

95th percentile per-packet one-way delay: 61.619 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 110.72 Mbit/s

95th percentile per-packet one-way delay: 61.803 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 103.92 Mbit/s

95th percentile per-packet one-way delay: 62.188 ms

Loss rate: 0.01%

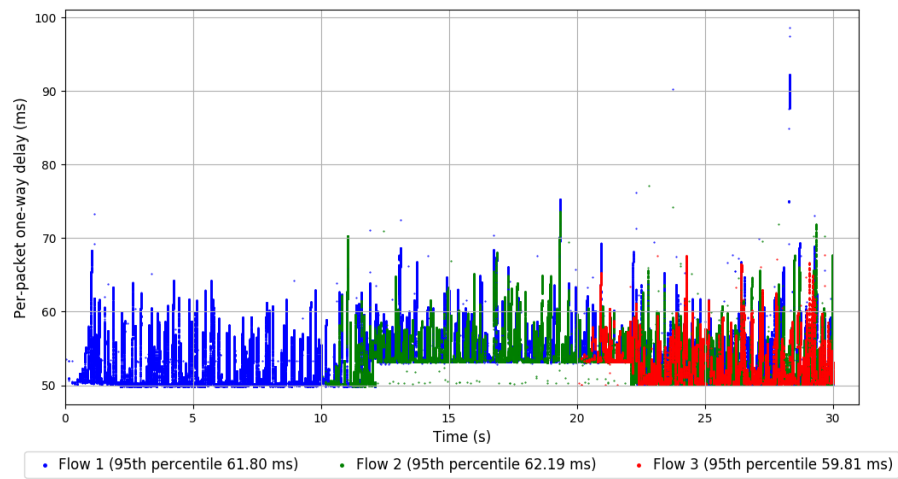
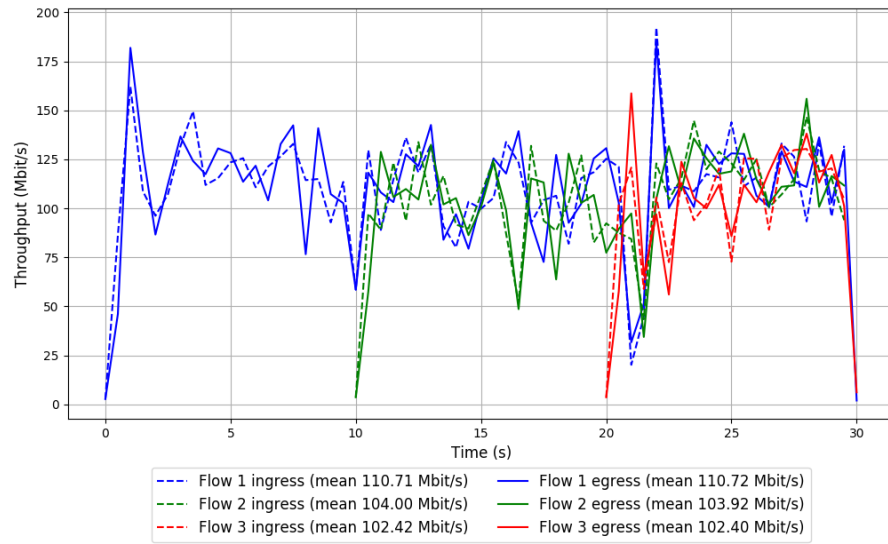
-- Flow 3:

Average throughput: 102.40 Mbit/s

95th percentile per-packet one-way delay: 59.813 ms

Loss rate: 0.01%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2017-11-21 22:53:53

End at: 2017-11-21 22:54:23

Below is generated by plot.py at 2017-11-22 00:35:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 218.32 Mbit/s

95th percentile per-packet one-way delay: 64.084 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 106.26 Mbit/s

95th percentile per-packet one-way delay: 63.248 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 113.41 Mbit/s

95th percentile per-packet one-way delay: 65.313 ms

Loss rate: 0.02%

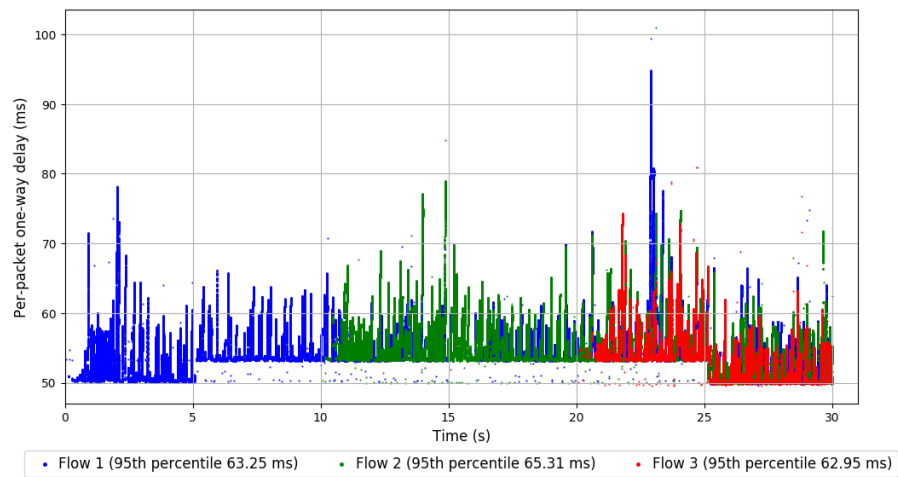
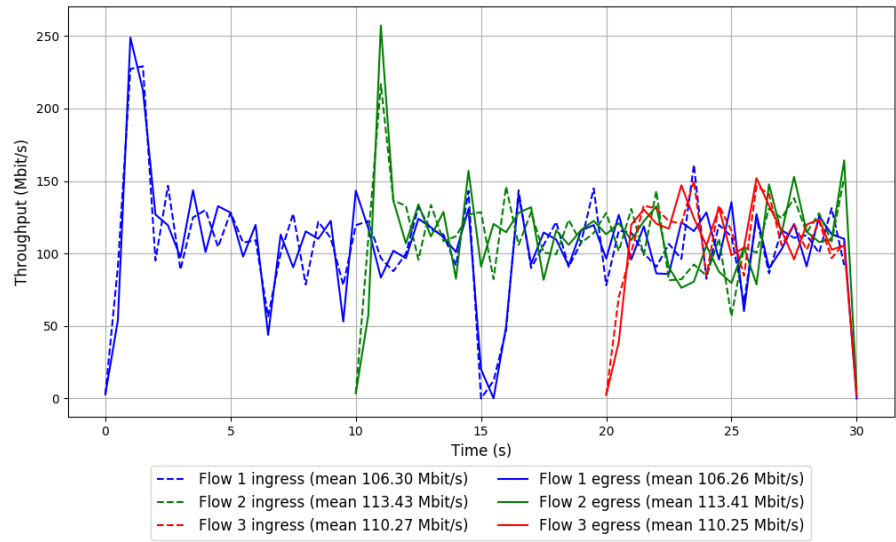
-- Flow 3:

Average throughput: 110.25 Mbit/s

95th percentile per-packet one-way delay: 62.952 ms

Loss rate: 0.01%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2017-11-21 23:05:38

End at: 2017-11-21 23:06:08

Below is generated by plot.py at 2017-11-22 00:38:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 224.44 Mbit/s

95th percentile per-packet one-way delay: 61.576 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 112.49 Mbit/s

95th percentile per-packet one-way delay: 60.183 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 113.38 Mbit/s

95th percentile per-packet one-way delay: 63.605 ms

Loss rate: 0.00%

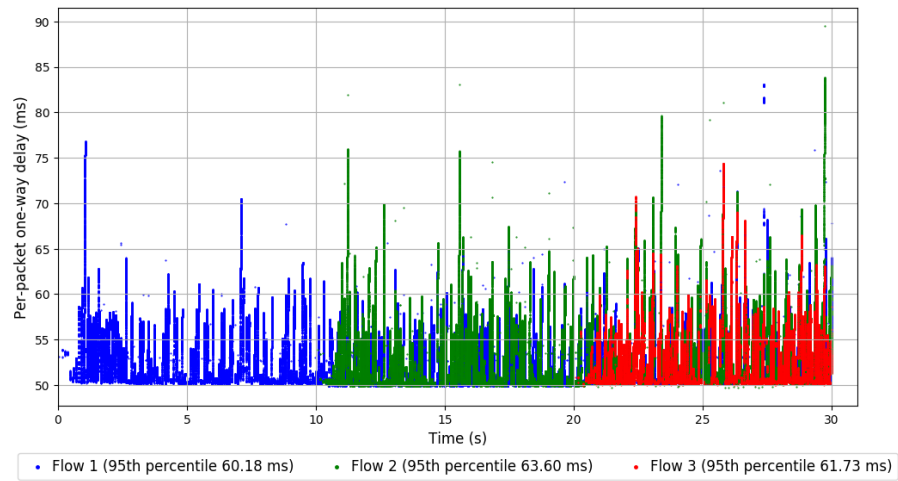
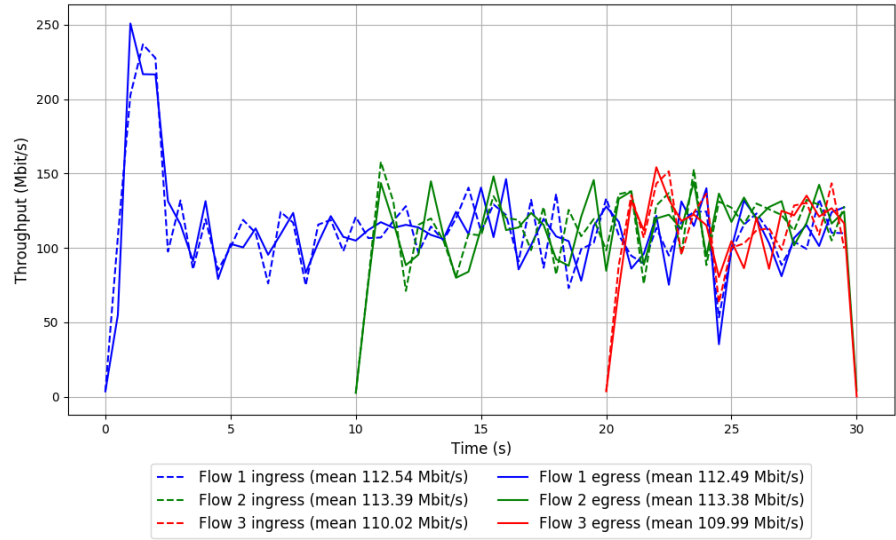
-- Flow 3:

Average throughput: 109.99 Mbit/s

95th percentile per-packet one-way delay: 61.725 ms

Loss rate: 0.00%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2017-11-21 23:17:46

End at: 2017-11-21 23:18:16

Below is generated by plot.py at 2017-11-22 00:38:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 220.16 Mbit/s

95th percentile per-packet one-way delay: 63.444 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 113.48 Mbit/s

95th percentile per-packet one-way delay: 62.718 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 111.76 Mbit/s

95th percentile per-packet one-way delay: 64.519 ms

Loss rate: 0.02%

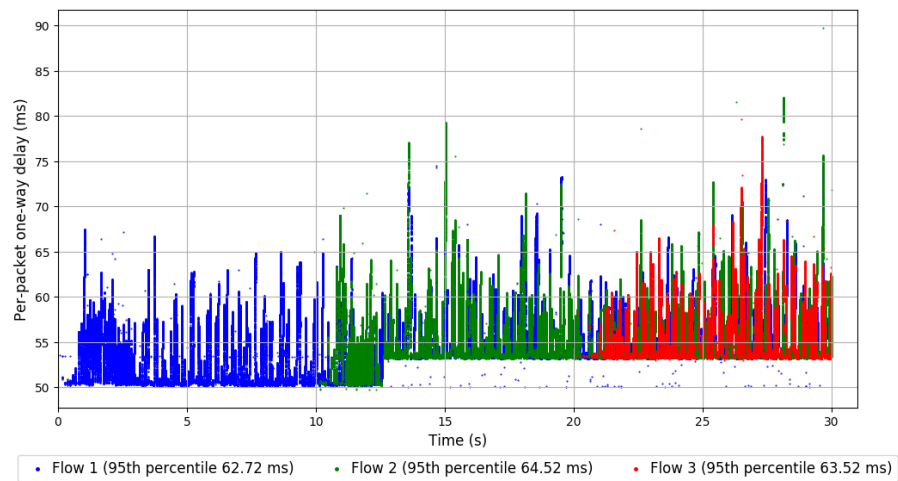
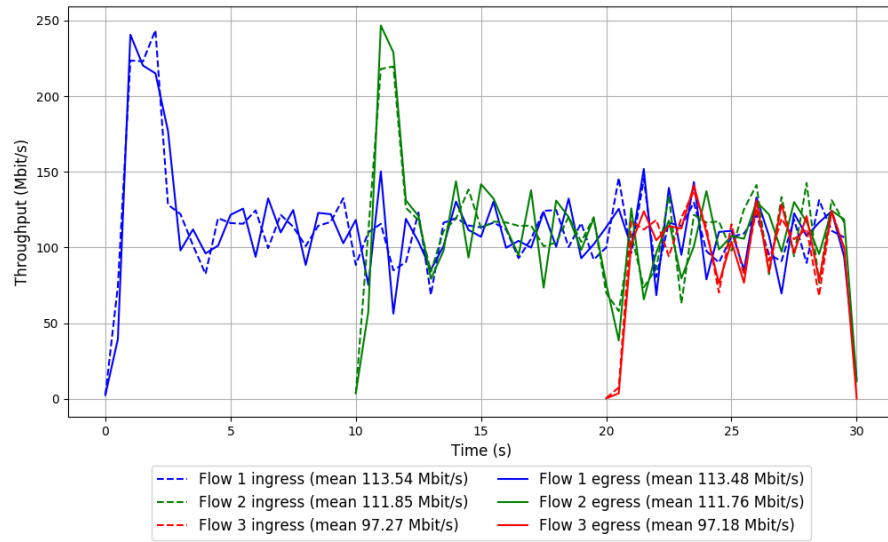
-- Flow 3:

Average throughput: 97.18 Mbit/s

95th percentile per-packet one-way delay: 63.517 ms

Loss rate: 0.02%

Run 10: Report of TCP BBR — Data Link

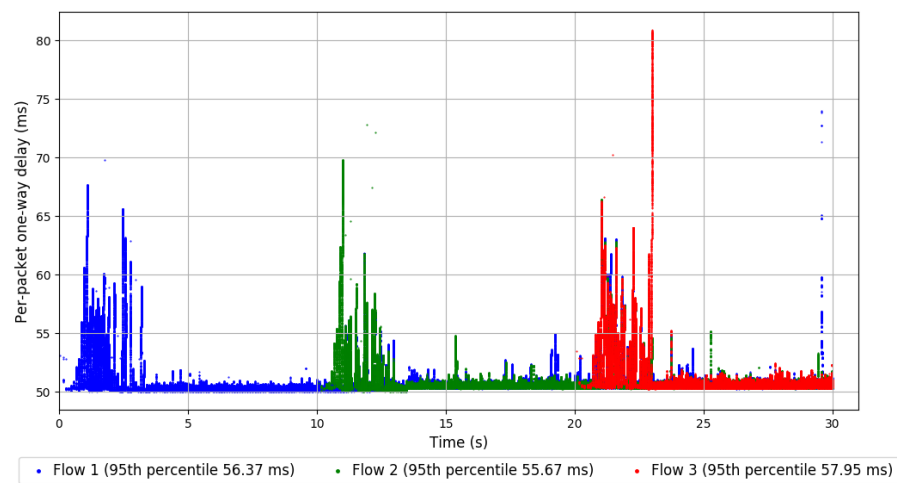
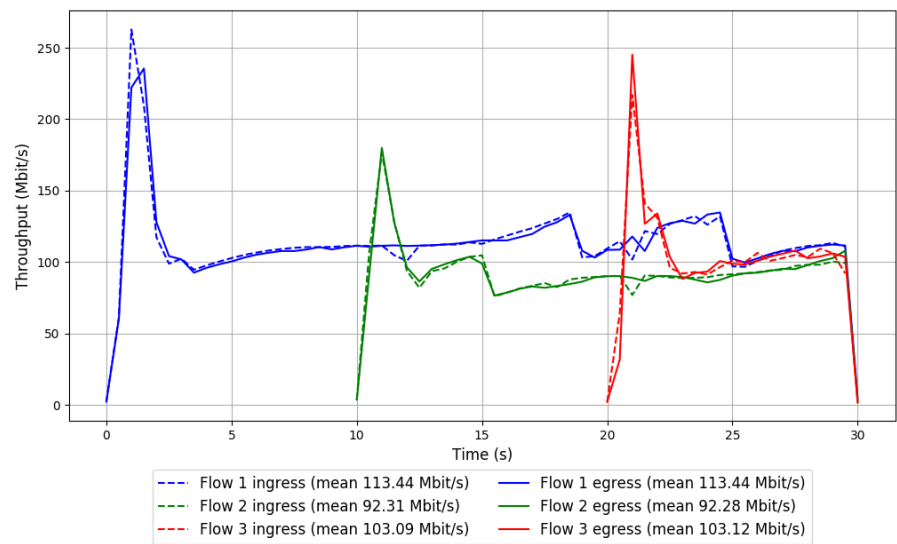


```
Run 1: Statistics of TCP Cubic

Start at: 2017-11-21 21:33:25
End at: 2017-11-21 21:33:55

# Below is generated by plot.py at 2017-11-22 00:38:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 209.11 Mbit/s
95th percentile per-packet one-way delay: 56.516 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 113.44 Mbit/s
95th percentile per-packet one-way delay: 56.365 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 92.28 Mbit/s
95th percentile per-packet one-way delay: 55.668 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 103.12 Mbit/s
95th percentile per-packet one-way delay: 57.948 ms
Loss rate: 0.00%
```

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2017-11-21 21:45:17

End at: 2017-11-21 21:45:47

Below is generated by plot.py at 2017-11-22 00:38:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 210.65 Mbit/s

95th percentile per-packet one-way delay: 58.090 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 102.12 Mbit/s

95th percentile per-packet one-way delay: 57.059 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 112.59 Mbit/s

95th percentile per-packet one-way delay: 58.942 ms

Loss rate: 0.00%

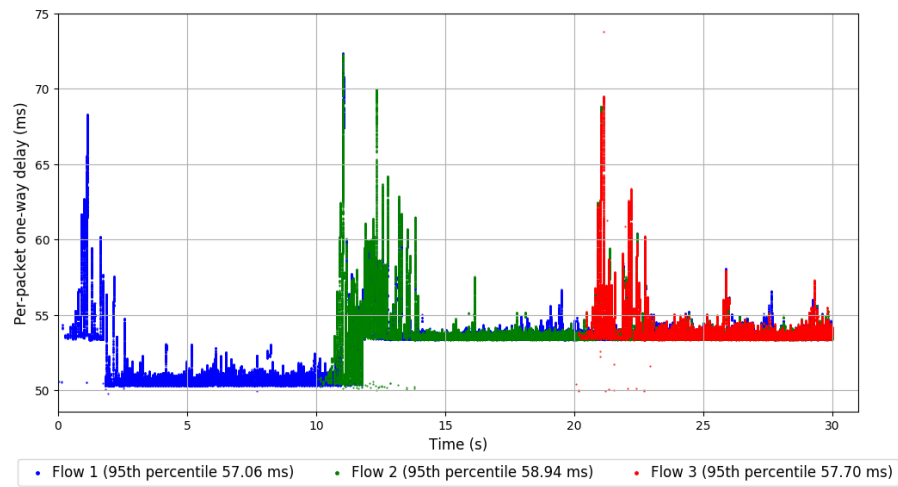
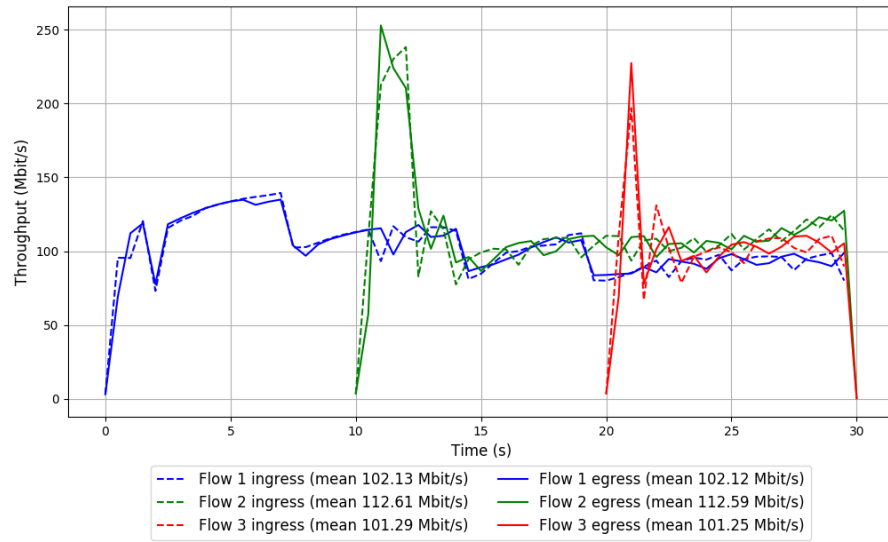
-- Flow 3:

Average throughput: 101.25 Mbit/s

95th percentile per-packet one-way delay: 57.699 ms

Loss rate: 0.01%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2017-11-21 21:57:30

End at: 2017-11-21 21:58:00

Below is generated by plot.py at 2017-11-22 00:38:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 203.85 Mbit/s

95th percentile per-packet one-way delay: 54.176 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 98.63 Mbit/s

95th percentile per-packet one-way delay: 54.255 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 102.84 Mbit/s

95th percentile per-packet one-way delay: 54.174 ms

Loss rate: 0.02%

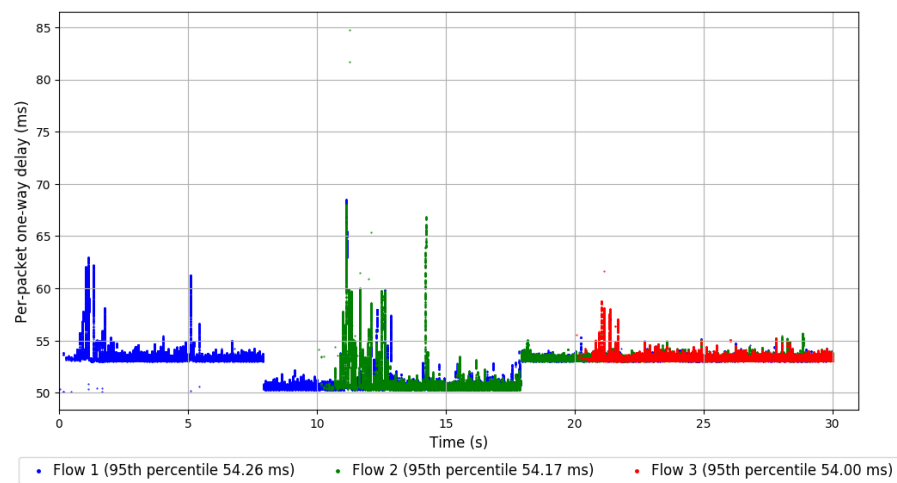
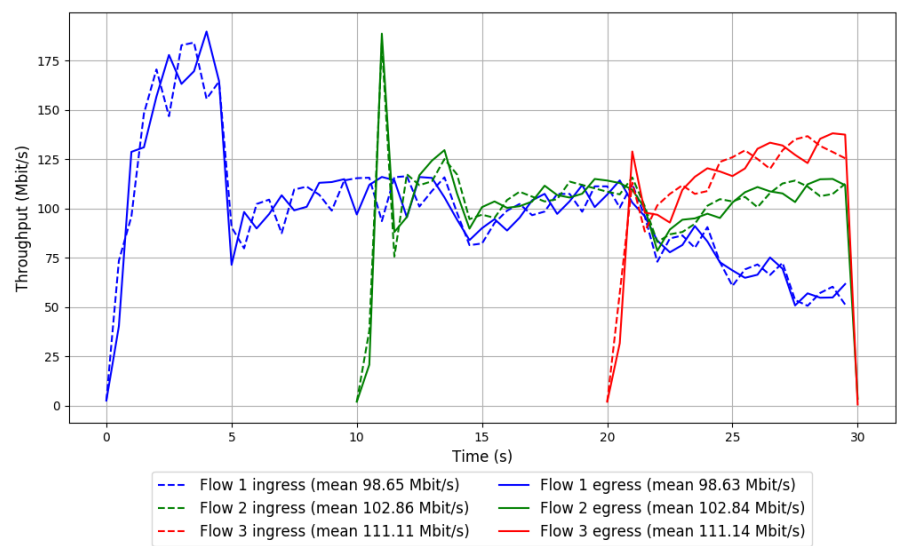
-- Flow 3:

Average throughput: 111.14 Mbit/s

95th percentile per-packet one-way delay: 54.004 ms

Loss rate: 0.00%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2017-11-21 22:09:28

End at: 2017-11-21 22:09:58

Below is generated by plot.py at 2017-11-22 00:39:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 245.66 Mbit/s

95th percentile per-packet one-way delay: 55.870 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 131.60 Mbit/s

95th percentile per-packet one-way delay: 56.321 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 115.83 Mbit/s

95th percentile per-packet one-way delay: 55.355 ms

Loss rate: 0.01%

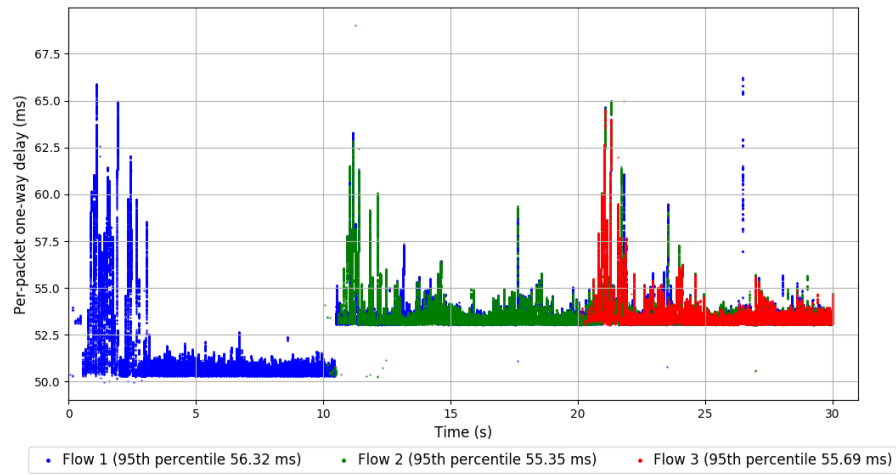
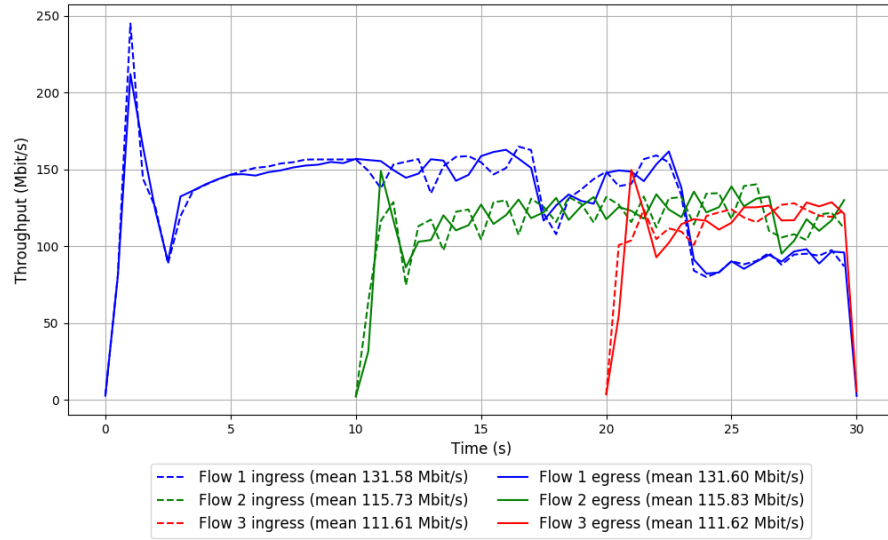
-- Flow 3:

Average throughput: 111.62 Mbit/s

95th percentile per-packet one-way delay: 55.694 ms

Loss rate: 0.00%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2017-11-21 22:21:37

End at: 2017-11-21 22:22:07

Below is generated by plot.py at 2017-11-22 00:39:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 228.53 Mbit/s

95th percentile per-packet one-way delay: 55.875 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 137.00 Mbit/s

95th percentile per-packet one-way delay: 55.307 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 93.71 Mbit/s

95th percentile per-packet one-way delay: 57.765 ms

Loss rate: 0.01%

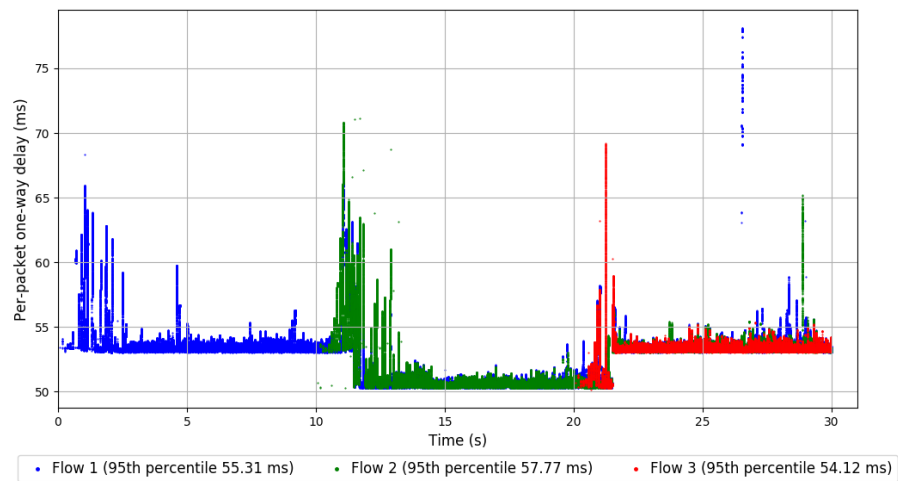
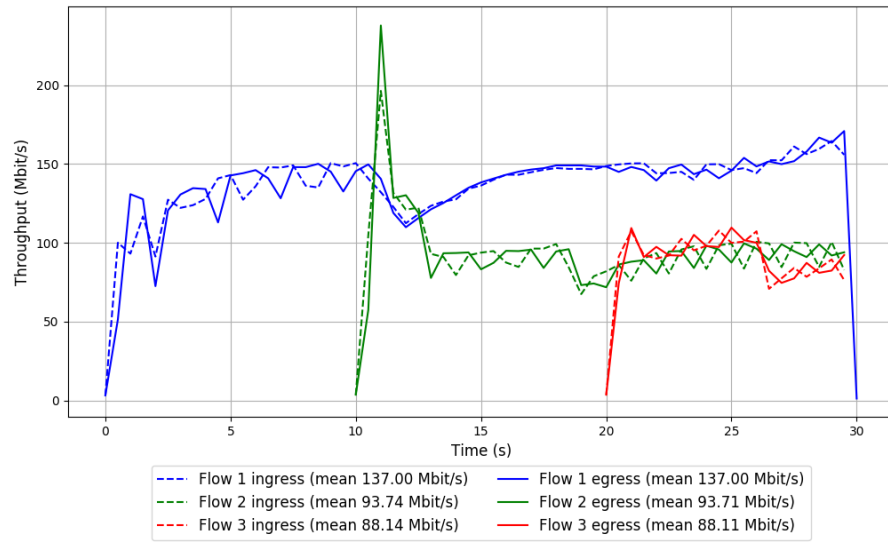
-- Flow 3:

Average throughput: 88.11 Mbit/s

95th percentile per-packet one-way delay: 54.124 ms

Loss rate: 0.01%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2017-11-21 22:33:46

End at: 2017-11-21 22:34:16

Below is generated by plot.py at 2017-11-22 00:40:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 232.77 Mbit/s

95th percentile per-packet one-way delay: 54.903 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 135.82 Mbit/s

95th percentile per-packet one-way delay: 54.915 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 89.88 Mbit/s

95th percentile per-packet one-way delay: 54.647 ms

Loss rate: 0.01%

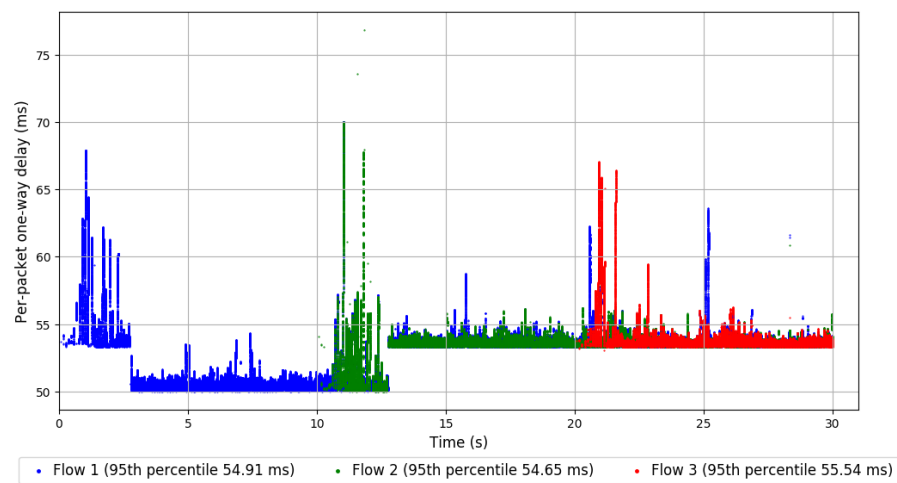
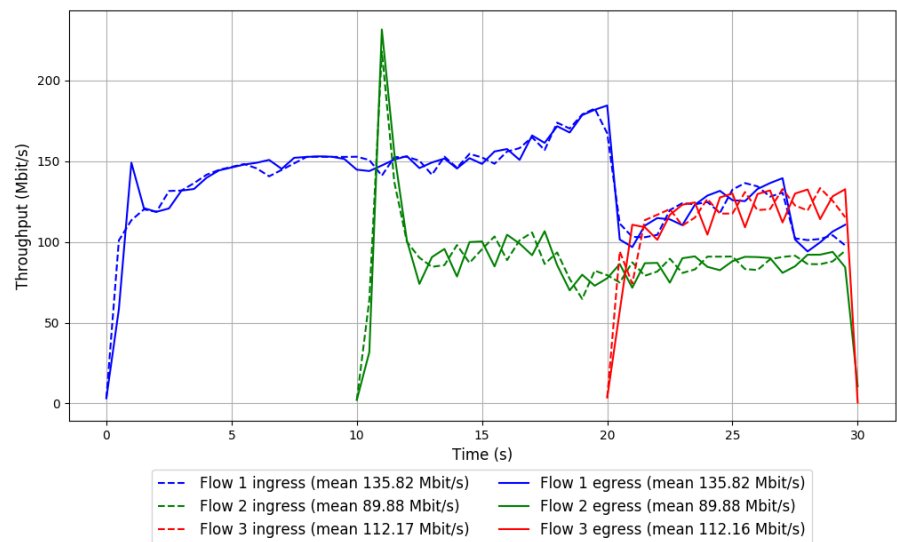
-- Flow 3:

Average throughput: 112.16 Mbit/s

95th percentile per-packet one-way delay: 55.541 ms

Loss rate: 0.02%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2017-11-21 22:45:57

End at: 2017-11-21 22:46:27

Below is generated by plot.py at 2017-11-22 00:41:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 201.60 Mbit/s

95th percentile per-packet one-way delay: 56.697 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 102.03 Mbit/s

95th percentile per-packet one-way delay: 56.329 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 112.86 Mbit/s

95th percentile per-packet one-way delay: 56.411 ms

Loss rate: 0.00%

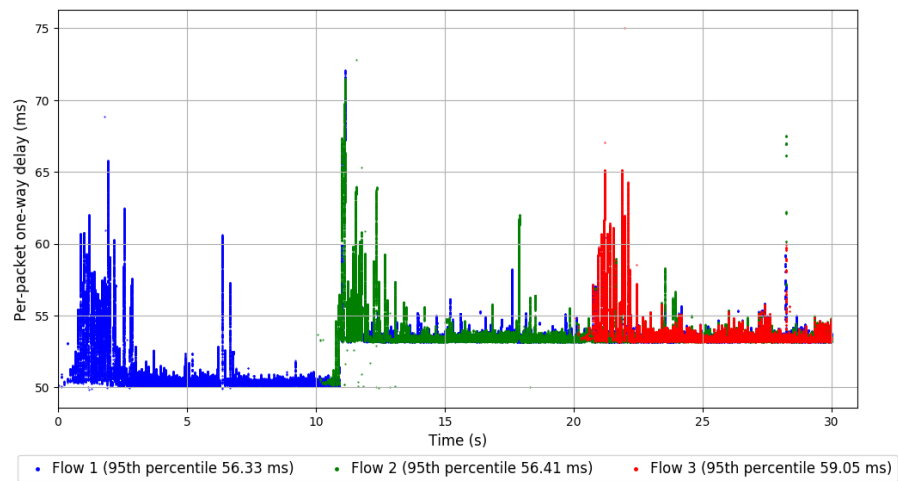
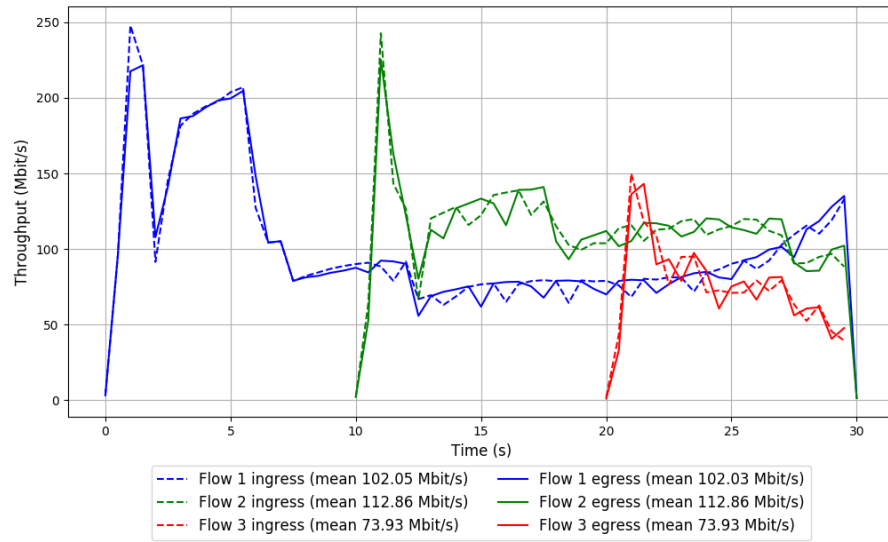
-- Flow 3:

Average throughput: 73.93 Mbit/s

95th percentile per-packet one-way delay: 59.048 ms

Loss rate: 0.02%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2017-11-21 22:58:08

End at: 2017-11-21 22:58:38

Below is generated by plot.py at 2017-11-22 00:41:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 200.04 Mbit/s

95th percentile per-packet one-way delay: 54.618 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 103.61 Mbit/s

95th percentile per-packet one-way delay: 54.751 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 91.46 Mbit/s

95th percentile per-packet one-way delay: 55.222 ms

Loss rate: 0.00%

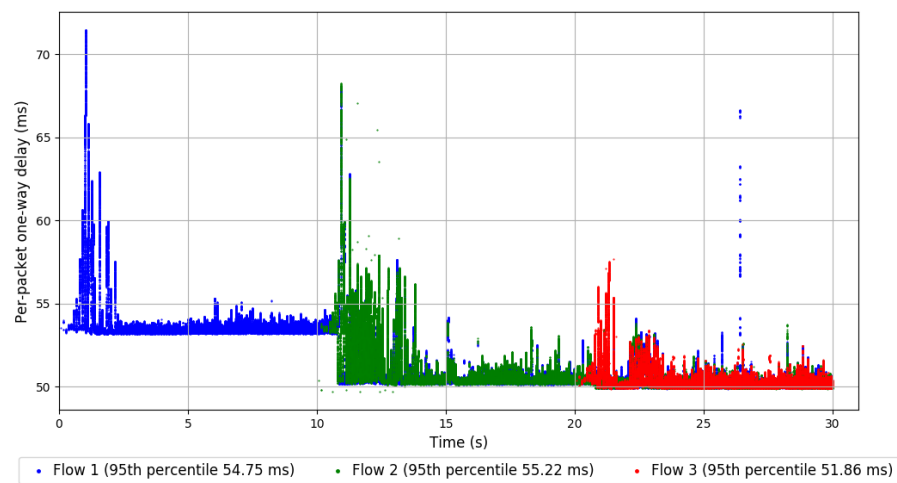
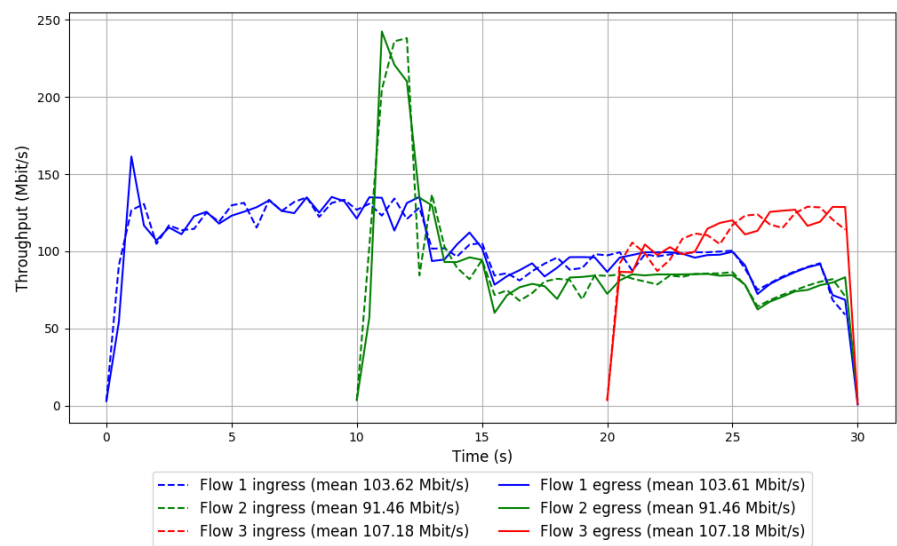
-- Flow 3:

Average throughput: 107.18 Mbit/s

95th percentile per-packet one-way delay: 51.858 ms

Loss rate: 0.00%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2017-11-21 23:09:53

End at: 2017-11-21 23:10:23

Below is generated by plot.py at 2017-11-22 00:41:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 182.54 Mbit/s

95th percentile per-packet one-way delay: 57.810 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 100.56 Mbit/s

95th percentile per-packet one-way delay: 58.710 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 68.29 Mbit/s

95th percentile per-packet one-way delay: 56.649 ms

Loss rate: 0.01%

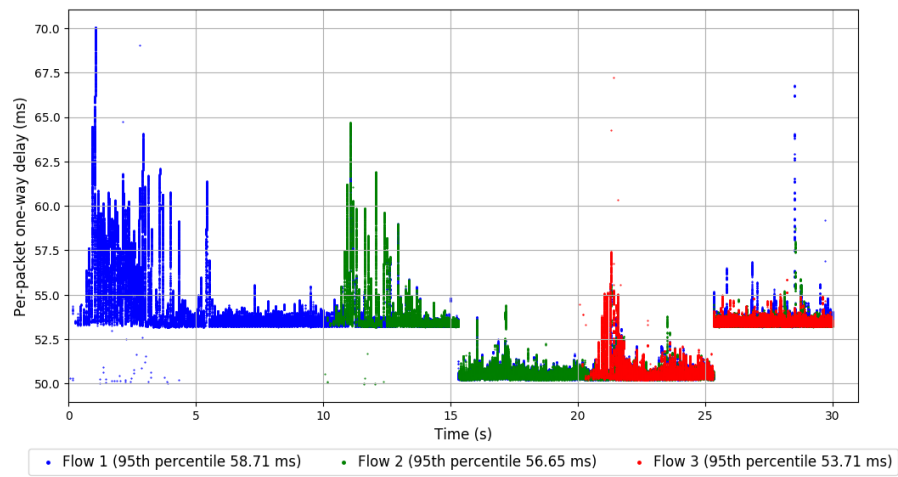
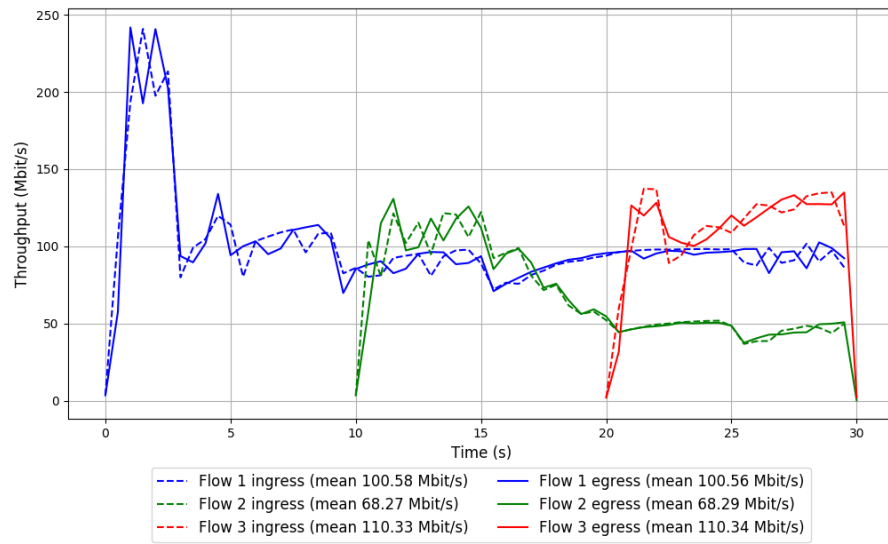
-- Flow 3:

Average throughput: 110.34 Mbit/s

95th percentile per-packet one-way delay: 53.707 ms

Loss rate: 0.00%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2017-11-21 23:22:02

End at: 2017-11-21 23:22:32

Below is generated by plot.py at 2017-11-22 00:42:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 200.01 Mbit/s

95th percentile per-packet one-way delay: 57.443 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 78.40 Mbit/s

95th percentile per-packet one-way delay: 59.500 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 133.80 Mbit/s

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

Loss rate: 0.00%

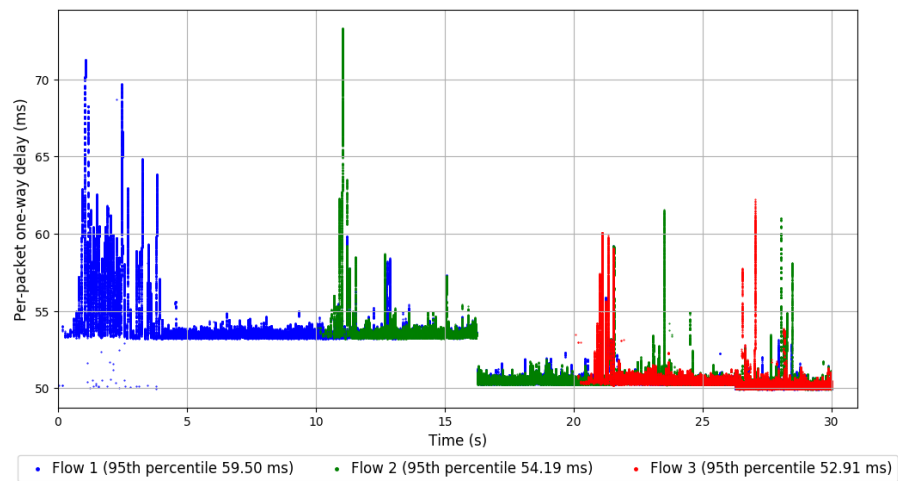
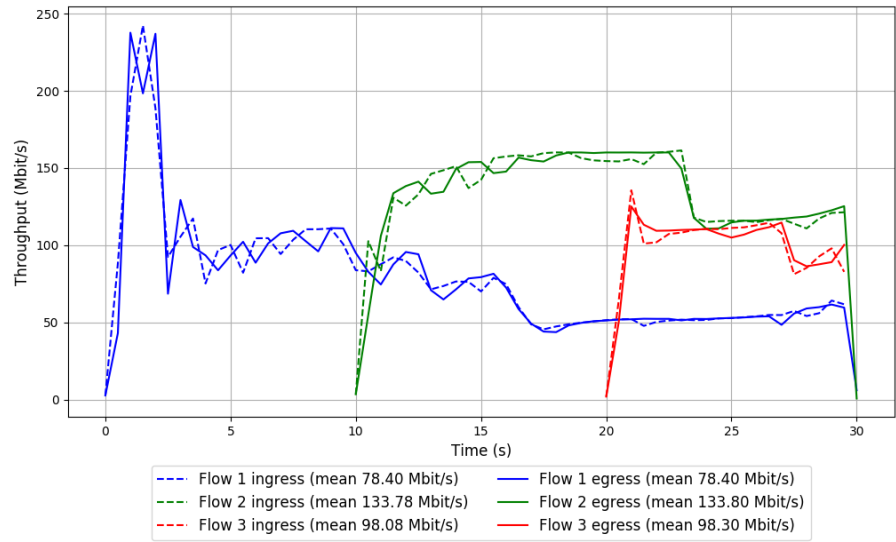
-- Flow 3:

Average throughput: 98.30 Mbit/s

95th percentile per-packet one-way delay: 52.908 ms

Loss rate: 0.01%

Run 10: Report of TCP Cubic — Data Link

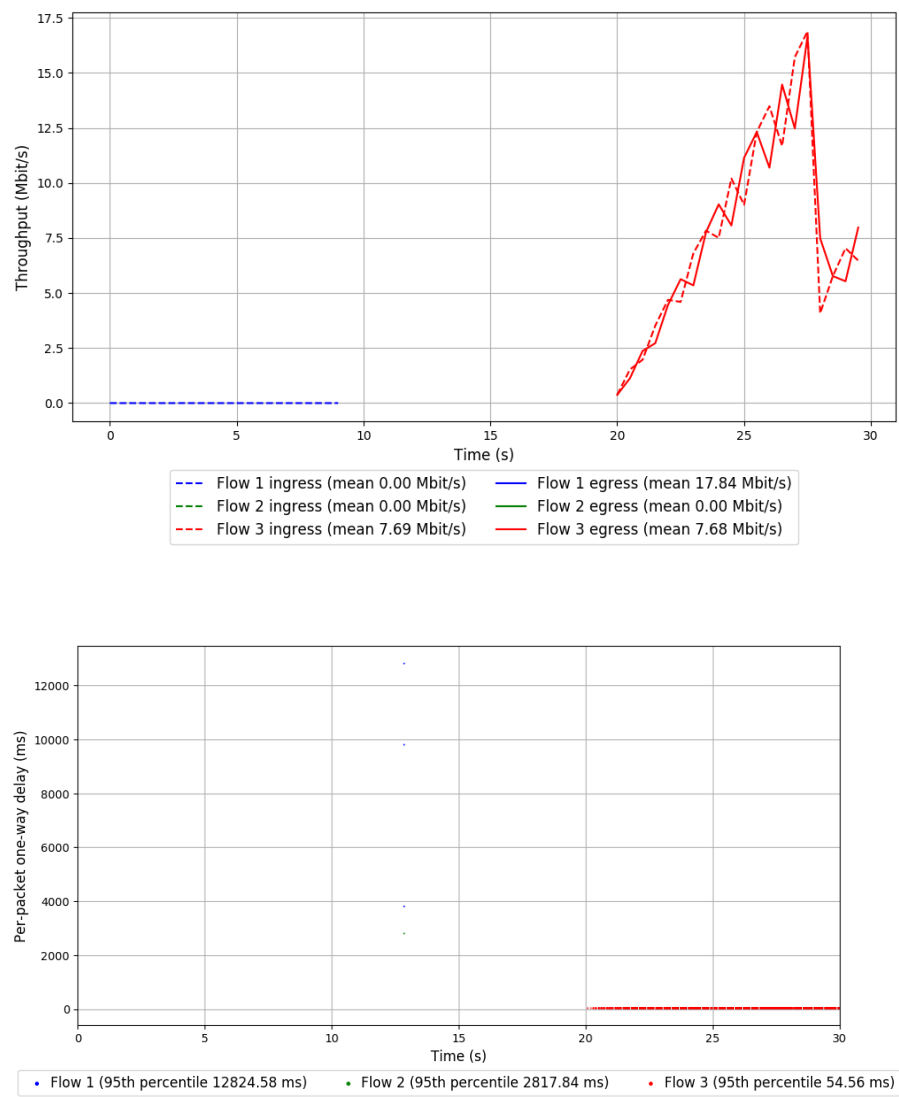


Run 1: Statistics of LEDBAT

Start at: 2017-11-21 21:31:00

End at: 2017-11-21 21:31:30

Run 1: Report of LEDBAT — Data Link

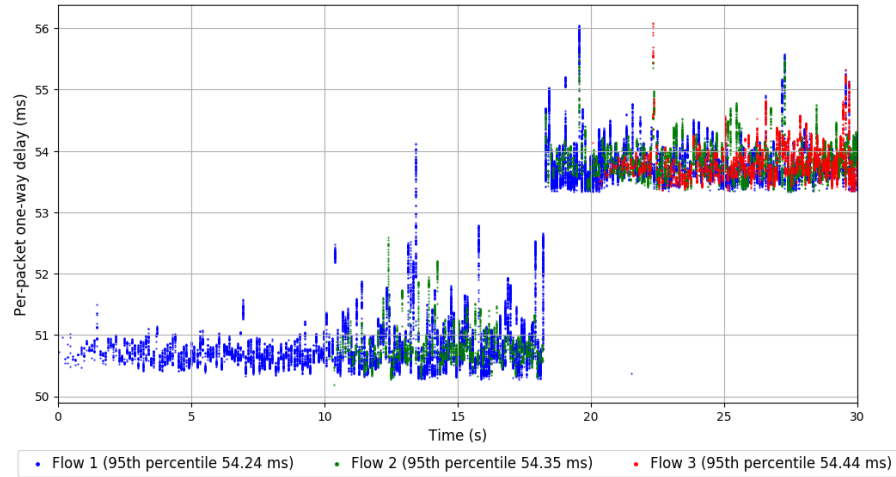
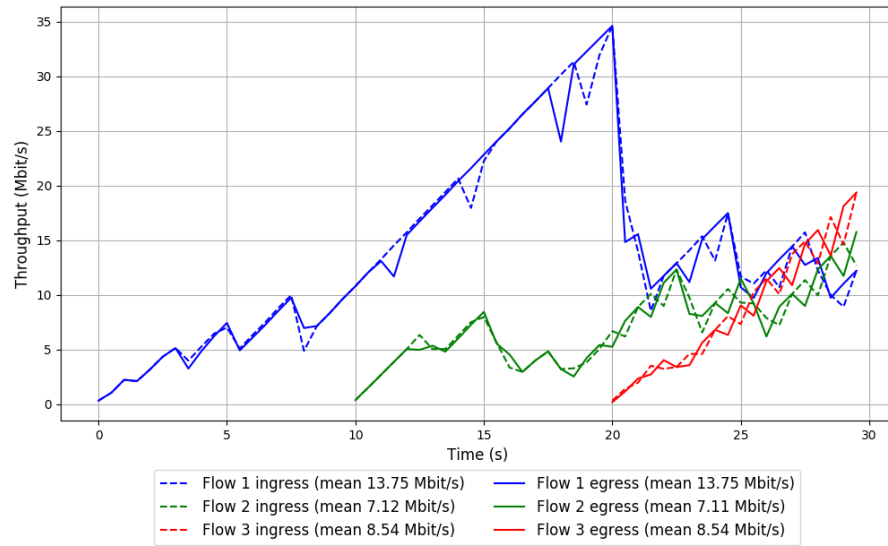


```
Run 2: Statistics of LEDBAT

Start at: 2017-11-21 21:42:50
End at: 2017-11-21 21:43:20

# Below is generated by plot.py at 2017-11-22 00:42:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 21.30 Mbit/s
95th percentile per-packet one-way delay: 54.291 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 13.75 Mbit/s
95th percentile per-packet one-way delay: 54.237 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 7.11 Mbit/s
95th percentile per-packet one-way delay: 54.350 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 8.54 Mbit/s
95th percentile per-packet one-way delay: 54.443 ms
Loss rate: 0.00%
```

Run 2: Report of LEDBAT — Data Link

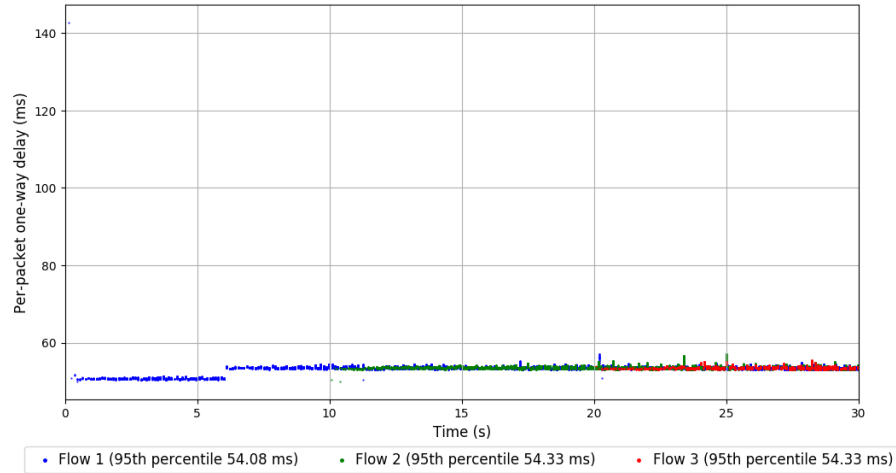
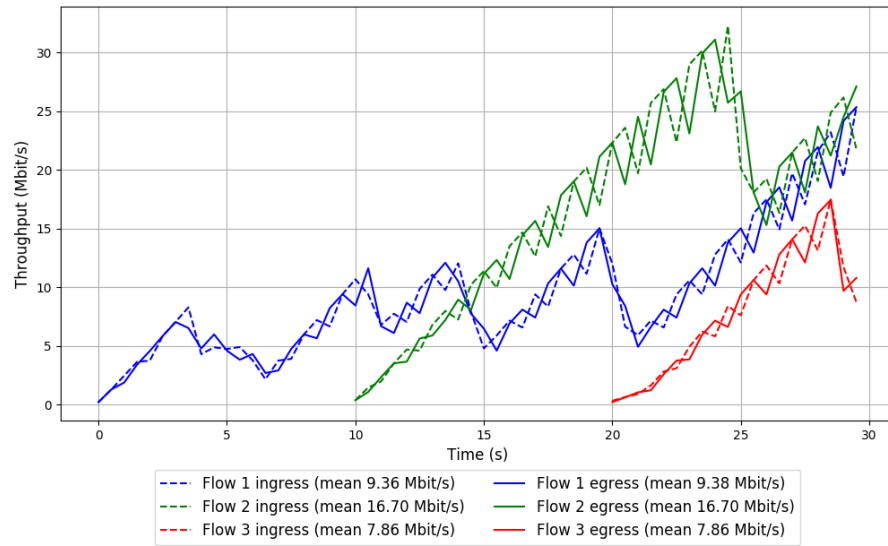


```
Run 3: Statistics of LEDBAT

Start at: 2017-11-21 21:55:02
End at: 2017-11-21 21:55:32

# Below is generated by plot.py at 2017-11-22 00:42:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 23.13 Mbit/s
95th percentile per-packet one-way delay: 54.218 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 9.38 Mbit/s
95th percentile per-packet one-way delay: 54.075 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 16.70 Mbit/s
95th percentile per-packet one-way delay: 54.331 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 7.86 Mbit/s
95th percentile per-packet one-way delay: 54.330 ms
Loss rate: 0.00%
```

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2017-11-21 22:07:01

End at: 2017-11-21 22:07:31

Below is generated by plot.py at 2017-11-22 00:42:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 20.16 Mbit/s

95th percentile per-packet one-way delay: 54.109 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 10.30 Mbit/s

95th percentile per-packet one-way delay: 54.043 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 9.70 Mbit/s

95th percentile per-packet one-way delay: 54.105 ms

Loss rate: 0.07%

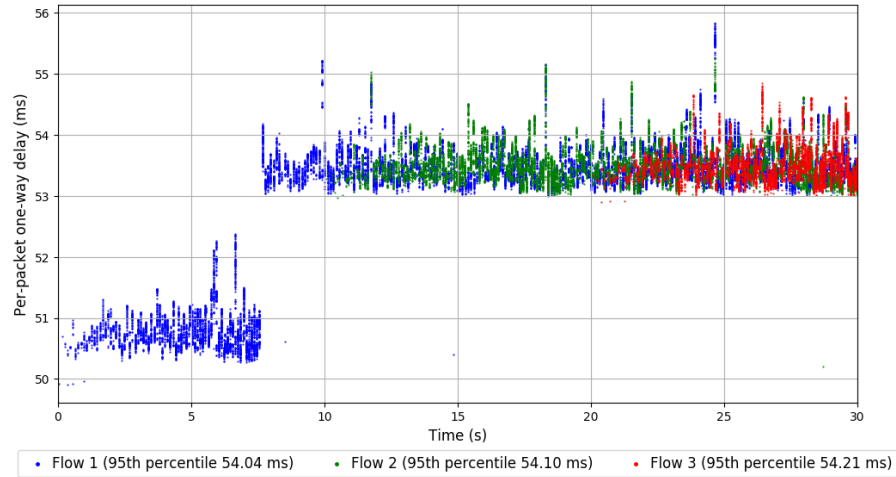
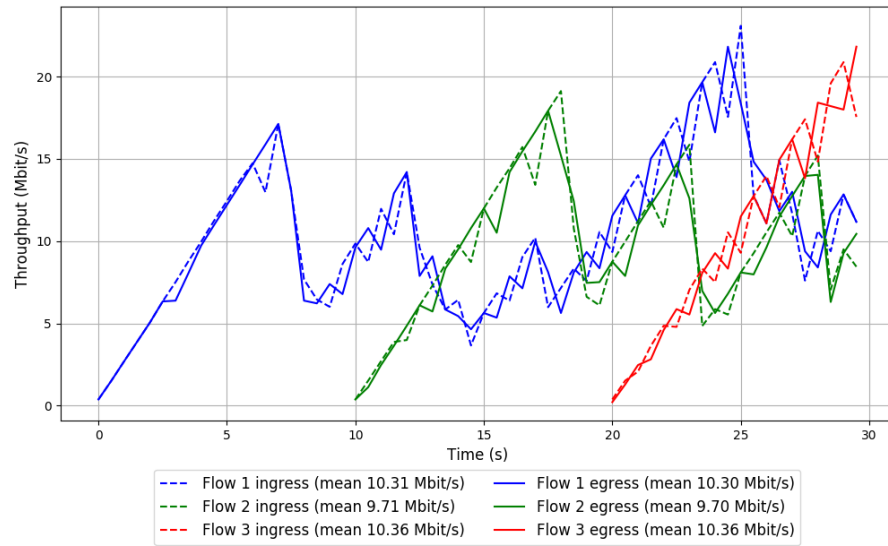
-- Flow 3:

Average throughput: 10.36 Mbit/s

95th percentile per-packet one-way delay: 54.210 ms

Loss rate: 0.00%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2017-11-21 22:19:07

End at: 2017-11-21 22:19:37

Below is generated by plot.py at 2017-11-22 00:42:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 18.42 Mbit/s

95th percentile per-packet one-way delay: 53.779 ms

Loss rate: 0.54%

-- Flow 1:

Average throughput: 9.09 Mbit/s

95th percentile per-packet one-way delay: 53.838 ms

Loss rate: 0.80%

-- Flow 2:

Average throughput: 8.72 Mbit/s

95th percentile per-packet one-way delay: 53.748 ms

Loss rate: 0.46%

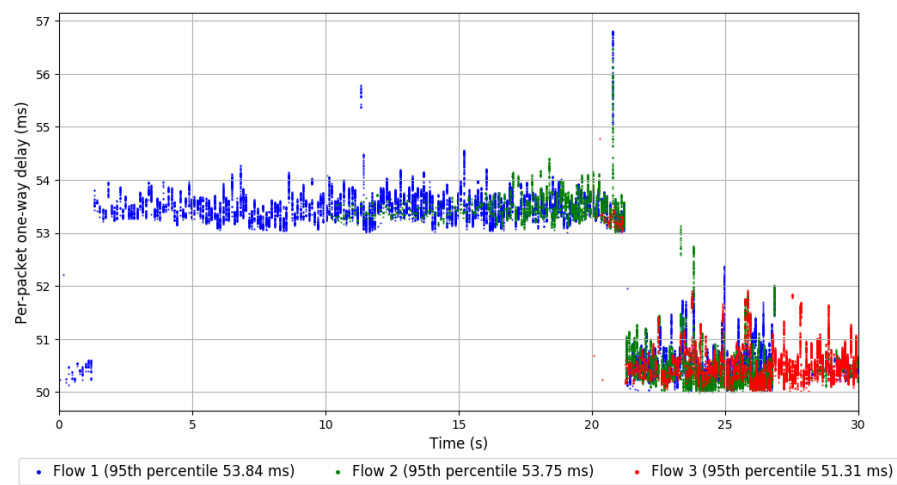
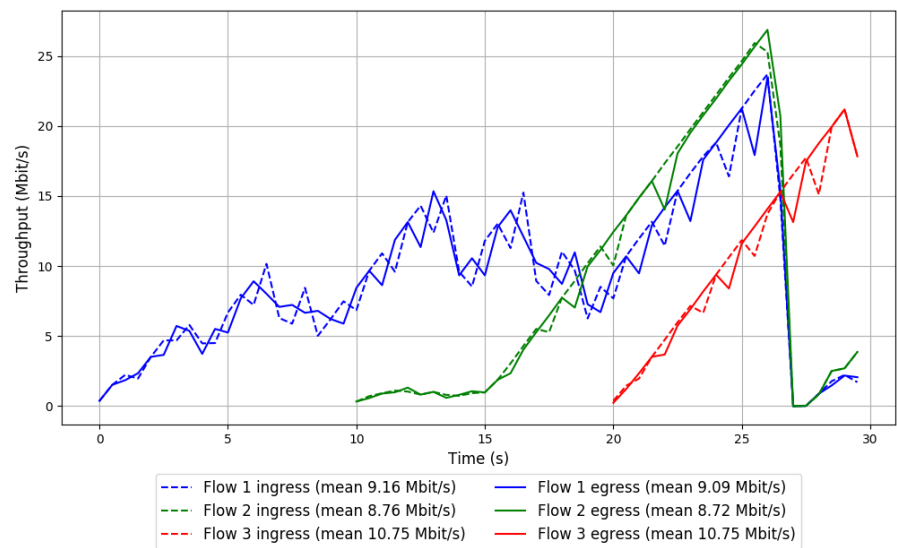
-- Flow 3:

Average throughput: 10.75 Mbit/s

95th percentile per-packet one-way delay: 51.306 ms

Loss rate: 0.00%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2017-11-21 22:31:22

End at: 2017-11-21 22:31:52

Below is generated by plot.py at 2017-11-22 00:42:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 20.07 Mbit/s

95th percentile per-packet one-way delay: 54.307 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 12.19 Mbit/s

95th percentile per-packet one-way delay: 54.324 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 7.96 Mbit/s

95th percentile per-packet one-way delay: 54.303 ms

Loss rate: 0.01%

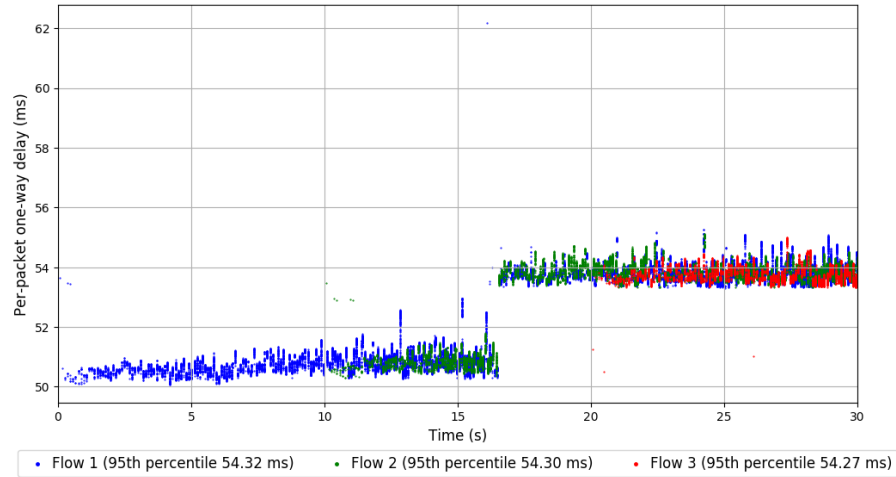
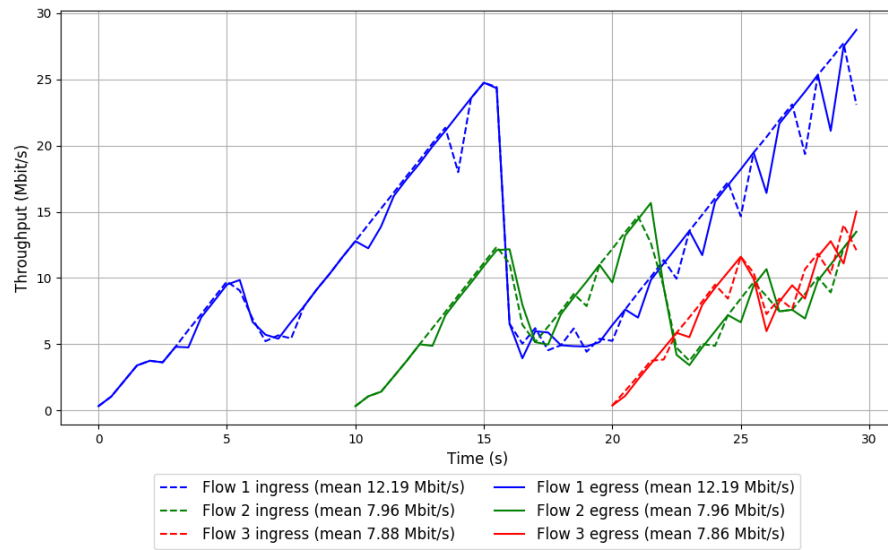
-- Flow 3:

Average throughput: 7.86 Mbit/s

95th percentile per-packet one-way delay: 54.272 ms

Loss rate: 0.12%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2017-11-21 22:43:33

End at: 2017-11-21 22:44:03

Below is generated by plot.py at 2017-11-22 00:42:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 20.79 Mbit/s

95th percentile per-packet one-way delay: 51.120 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 11.42 Mbit/s

95th percentile per-packet one-way delay: 51.049 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 9.34 Mbit/s

95th percentile per-packet one-way delay: 51.195 ms

Loss rate: 0.00%

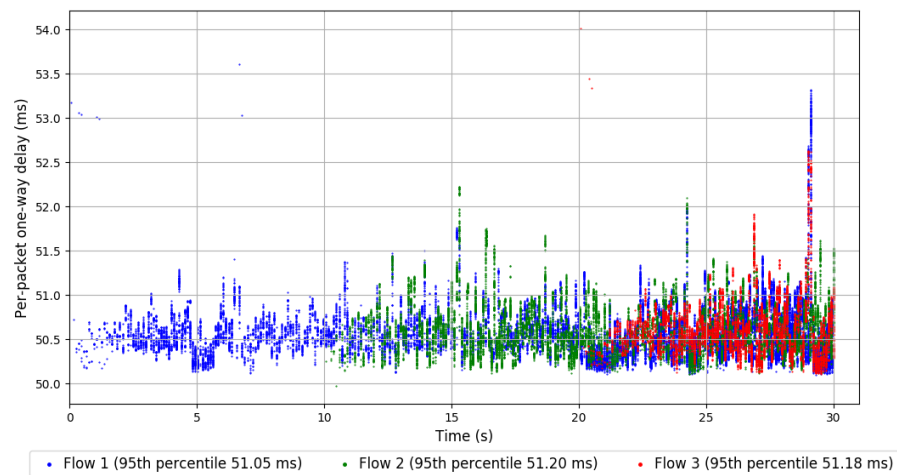
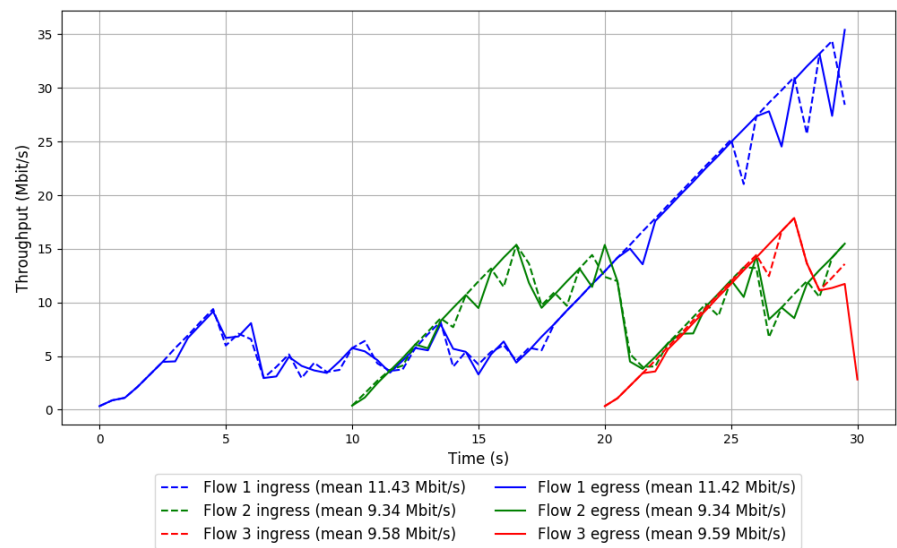
-- Flow 3:

Average throughput: 9.59 Mbit/s

95th percentile per-packet one-way delay: 51.183 ms

Loss rate: 0.00%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2017-11-21 22:55:41

End at: 2017-11-21 22:56:11

Below is generated by plot.py at 2017-11-22 00:42:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 24.56 Mbit/s

95th percentile per-packet one-way delay: 53.890 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 16.53 Mbit/s

95th percentile per-packet one-way delay: 53.882 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 6.36 Mbit/s

95th percentile per-packet one-way delay: 53.882 ms

Loss rate: 0.11%

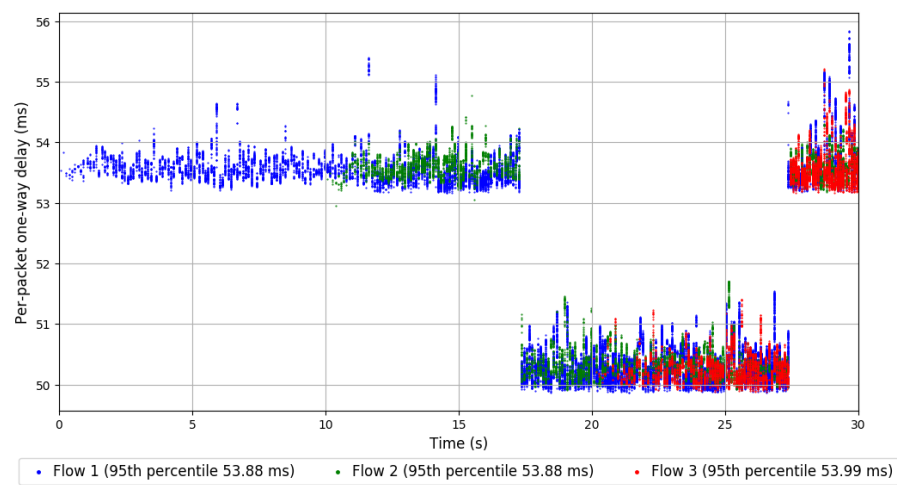
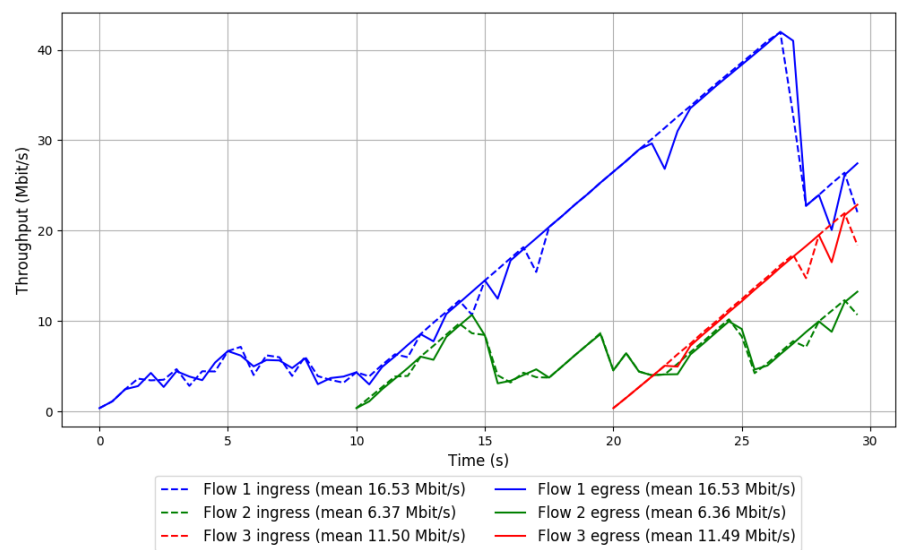
-- Flow 3:

Average throughput: 11.49 Mbit/s

95th percentile per-packet one-way delay: 53.990 ms

Loss rate: 0.00%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2017-11-21 23:07:26

End at: 2017-11-21 23:07:56

Below is generated by plot.py at 2017-11-22 00:42:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 18.74 Mbit/s

95th percentile per-packet one-way delay: 53.989 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 10.71 Mbit/s

95th percentile per-packet one-way delay: 54.001 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 8.48 Mbit/s

95th percentile per-packet one-way delay: 54.039 ms

Loss rate: 0.00%

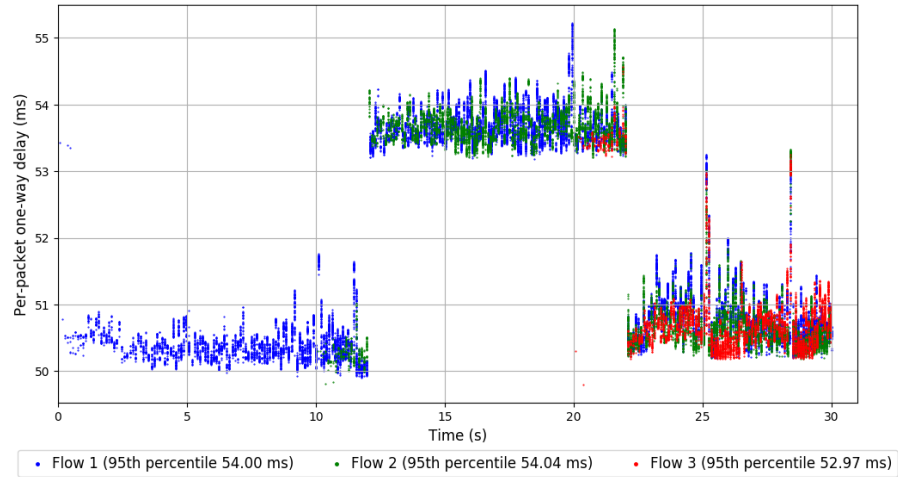
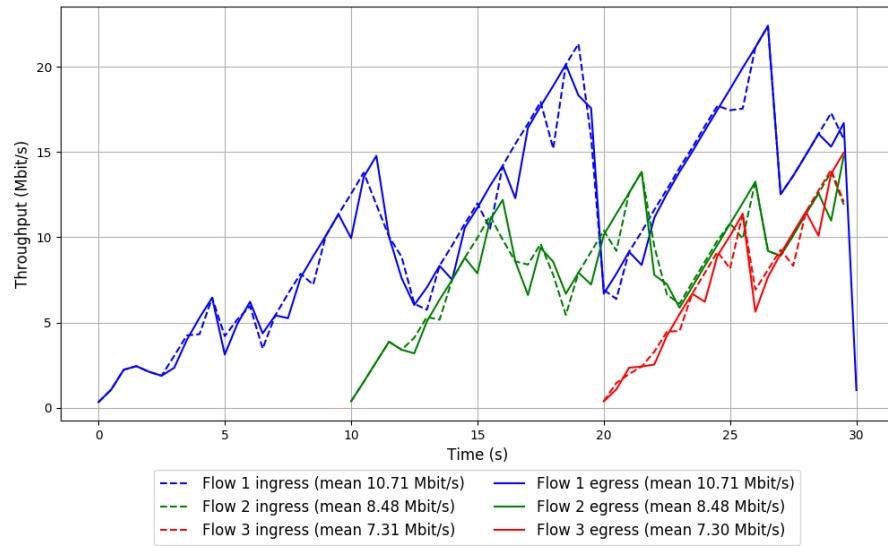
-- Flow 3:

Average throughput: 7.30 Mbit/s

95th percentile per-packet one-way delay: 52.967 ms

Loss rate: 0.00%

Run 9: Report of LEDBAT — Data Link

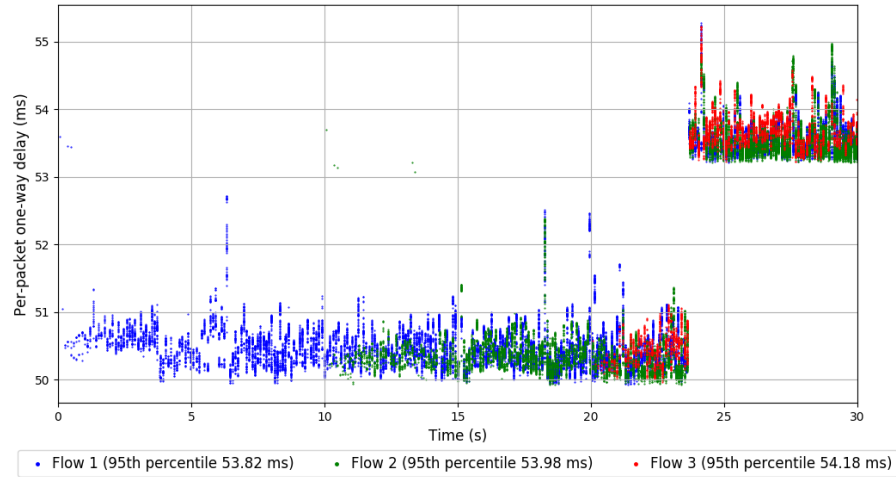
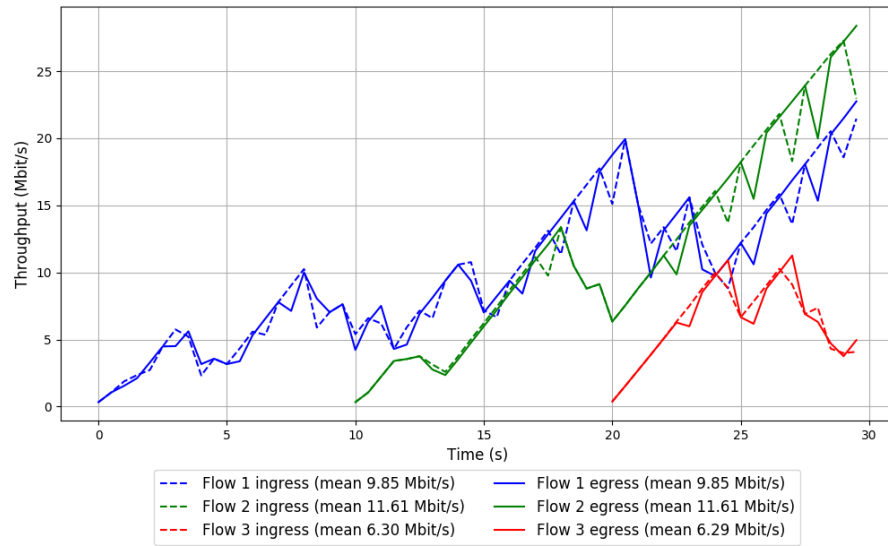


```
Run 10: Statistics of LEDBAT

Start at: 2017-11-21 23:19:35
End at: 2017-11-21 23:20:05

# Below is generated by plot.py at 2017-11-22 00:42:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 19.66 Mbit/s
95th percentile per-packet one-way delay: 53.946 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 9.85 Mbit/s
95th percentile per-packet one-way delay: 53.823 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 11.61 Mbit/s
95th percentile per-packet one-way delay: 53.977 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 6.29 Mbit/s
95th percentile per-packet one-way delay: 54.180 ms
Loss rate: 0.02%
```

Run 10: Report of LEDBAT — Data Link

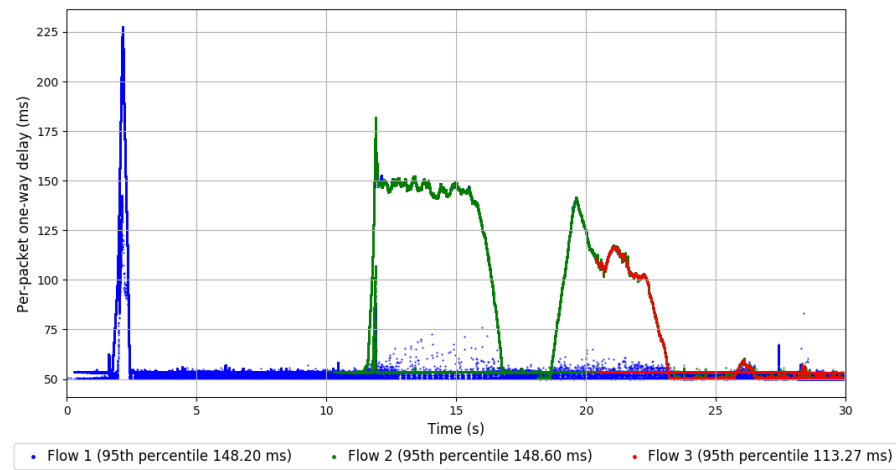
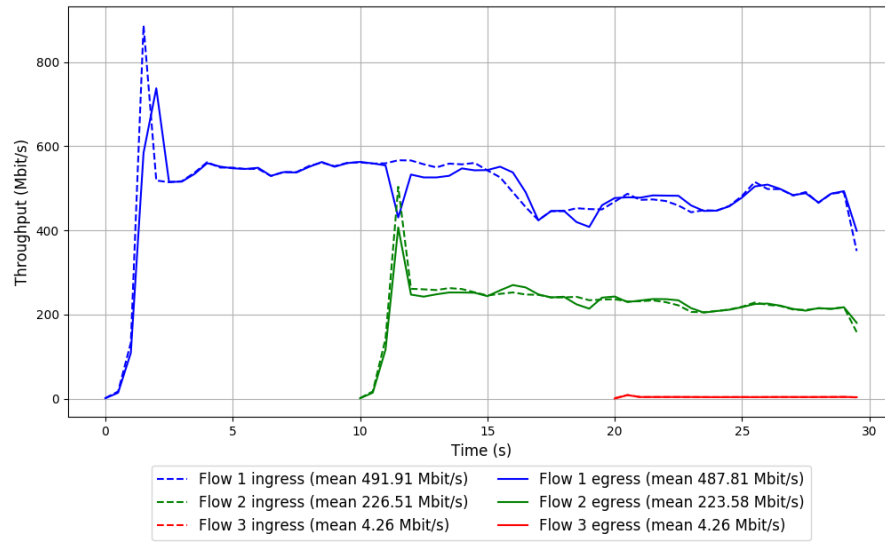


```
Run 1: Statistics of PCC

Start at: 2017-11-21 21:35:40
End at: 2017-11-21 21:36:10

# Below is generated by plot.py at 2017-11-22 00:51:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 637.80 Mbit/s
95th percentile per-packet one-way delay: 148.297 ms
Loss rate: 0.95%
-- Flow 1:
Average throughput: 487.81 Mbit/s
95th percentile per-packet one-way delay: 148.201 ms
Loss rate: 0.84%
-- Flow 2:
Average throughput: 223.58 Mbit/s
95th percentile per-packet one-way delay: 148.599 ms
Loss rate: 1.31%
-- Flow 3:
Average throughput: 4.26 Mbit/s
95th percentile per-packet one-way delay: 113.270 ms
Loss rate: 0.00%
```

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2017-11-21 21:47:32

End at: 2017-11-21 21:48:02

Below is generated by plot.py at 2017-11-22 00:51:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 663.31 Mbit/s

95th percentile per-packet one-way delay: 154.318 ms

Loss rate: 1.02%

-- Flow 1:

Average throughput: 631.30 Mbit/s

95th percentile per-packet one-way delay: 154.287 ms

Loss rate: 1.03%

-- Flow 2:

Average throughput: 32.48 Mbit/s

95th percentile per-packet one-way delay: 154.501 ms

Loss rate: 0.71%

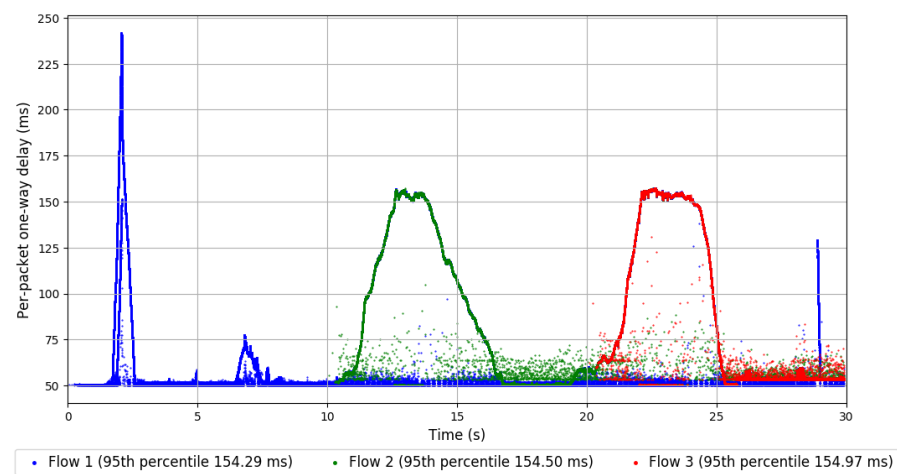
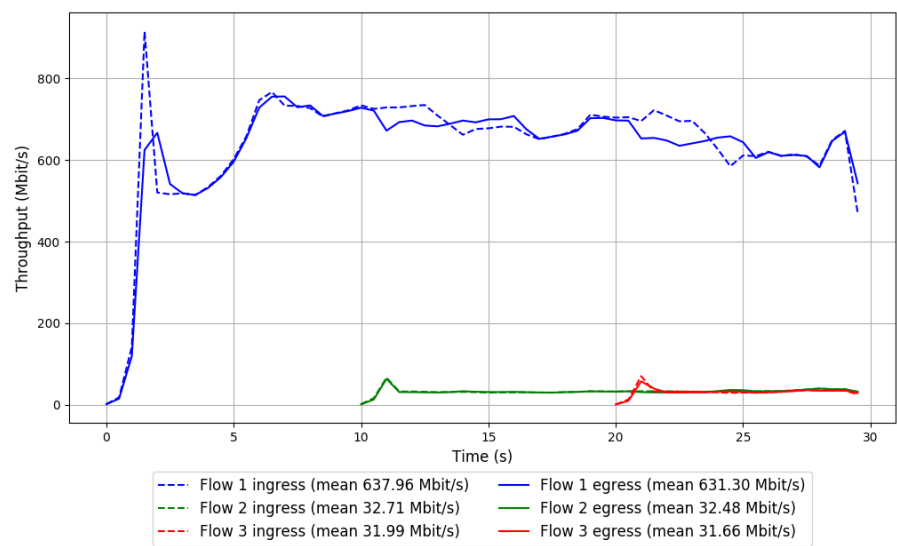
-- Flow 3:

Average throughput: 31.66 Mbit/s

95th percentile per-packet one-way delay: 154.972 ms

Loss rate: 1.12%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2017-11-21 21:59:47

End at: 2017-11-21 22:00:17

Below is generated by plot.py at 2017-11-22 00:51:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 679.51 Mbit/s

95th percentile per-packet one-way delay: 177.449 ms

Loss rate: 1.57%

-- Flow 1:

Average throughput: 641.67 Mbit/s

95th percentile per-packet one-way delay: 180.014 ms

Loss rate: 1.59%

-- Flow 2:

Average throughput: 27.78 Mbit/s

95th percentile per-packet one-way delay: 153.933 ms

Loss rate: 0.97%

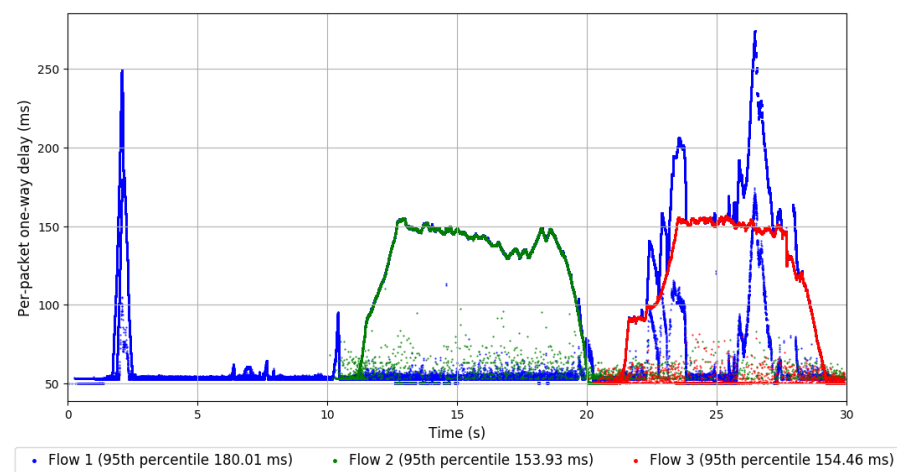
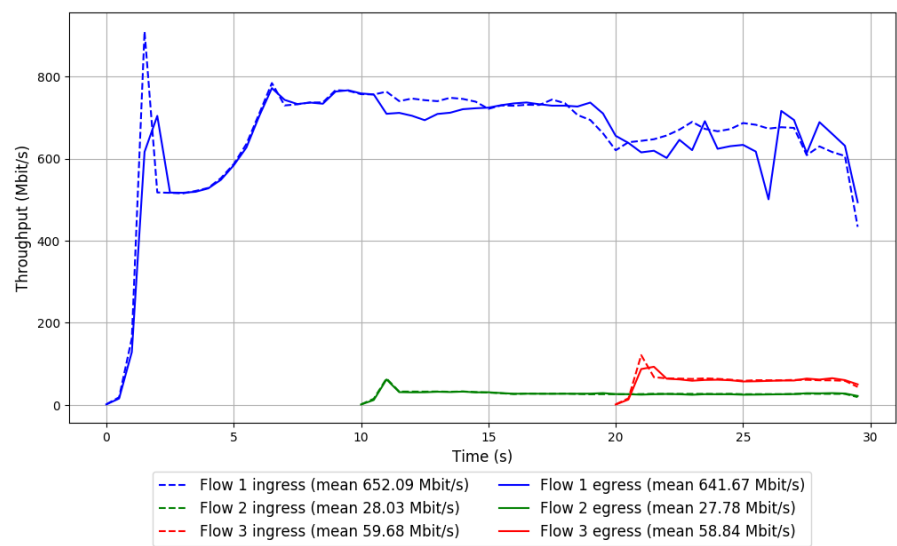
-- Flow 3:

Average throughput: 58.84 Mbit/s

95th percentile per-packet one-way delay: 154.460 ms

Loss rate: 1.43%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2017-11-21 22:11:46

End at: 2017-11-21 22:12:16

Below is generated by plot.py at 2017-11-22 00:51:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 651.64 Mbit/s

95th percentile per-packet one-way delay: 130.060 ms

Loss rate: 0.45%

-- Flow 1:

Average throughput: 552.44 Mbit/s

95th percentile per-packet one-way delay: 129.941 ms

Loss rate: 0.45%

-- Flow 2:

Average throughput: 133.63 Mbit/s

95th percentile per-packet one-way delay: 130.437 ms

Loss rate: 0.46%

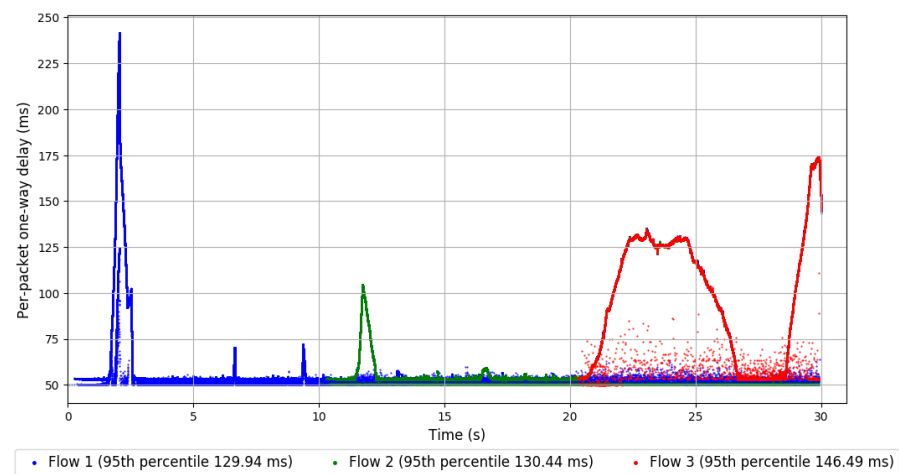
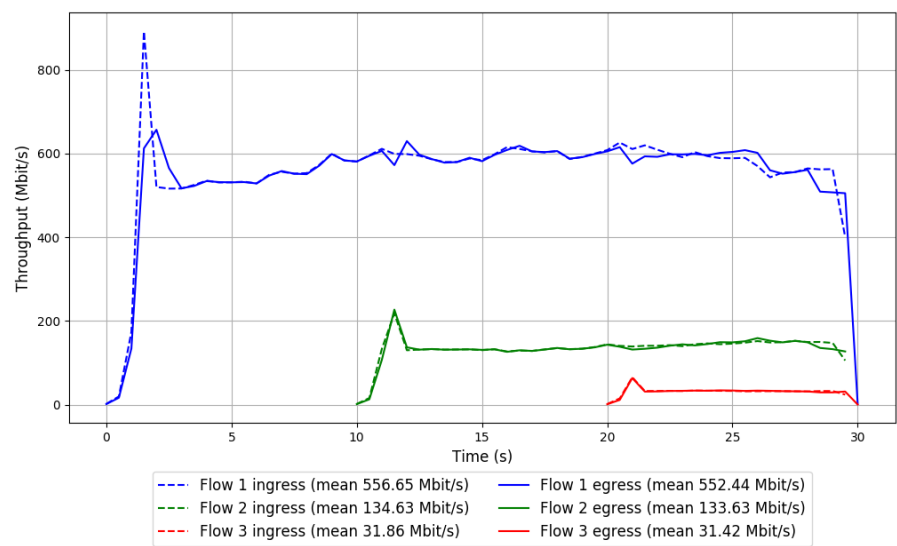
-- Flow 3:

Average throughput: 31.42 Mbit/s

95th percentile per-packet one-way delay: 146.491 ms

Loss rate: 0.44%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2017-11-21 22:23:54

End at: 2017-11-21 22:24:24

Below is generated by plot.py at 2017-11-22 00:52:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 639.86 Mbit/s

95th percentile per-packet one-way delay: 156.394 ms

Loss rate: 3.72%

-- Flow 1:

Average throughput: 490.48 Mbit/s

95th percentile per-packet one-way delay: 156.487 ms

Loss rate: 3.79%

-- Flow 2:

Average throughput: 194.46 Mbit/s

95th percentile per-packet one-way delay: 156.624 ms

Loss rate: 3.98%

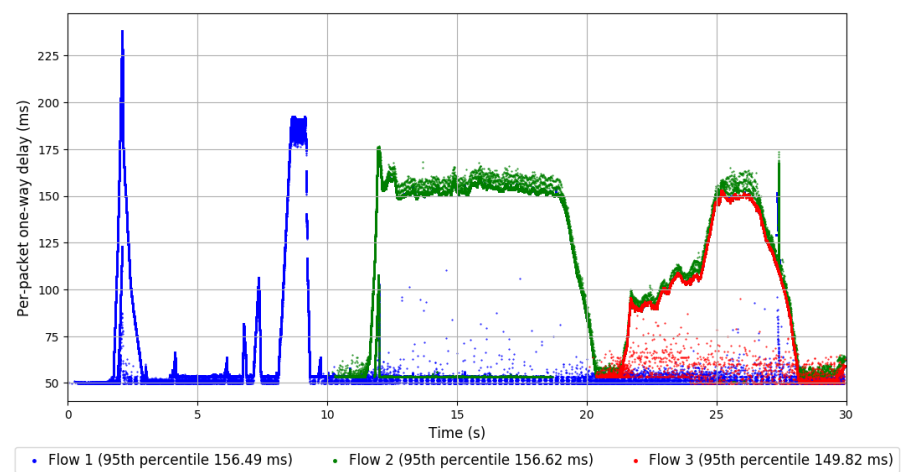
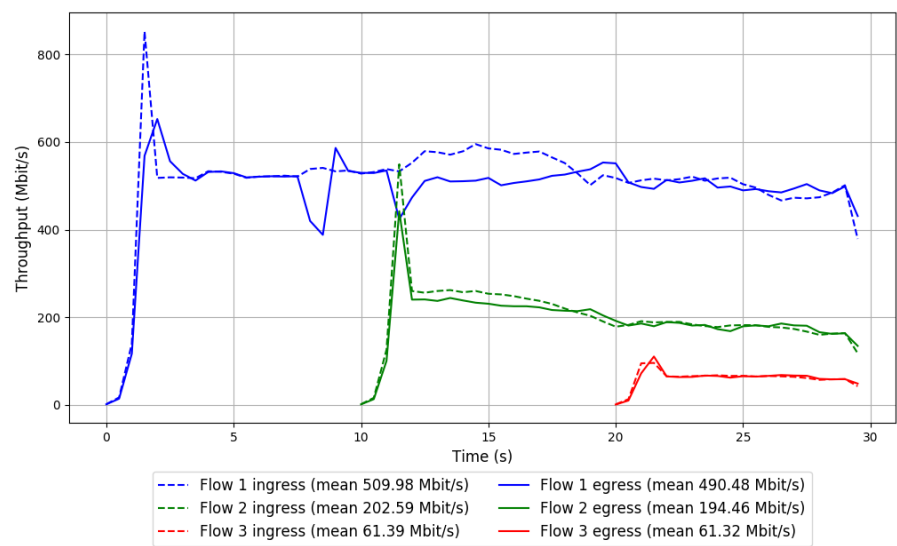
-- Flow 3:

Average throughput: 61.32 Mbit/s

95th percentile per-packet one-way delay: 149.816 ms

Loss rate: 0.11%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2017-11-21 22:36:03

End at: 2017-11-21 22:36:33

Below is generated by plot.py at 2017-11-22 00:52:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 641.76 Mbit/s

95th percentile per-packet one-way delay: 218.262 ms

Loss rate: 2.69%

-- Flow 1:

Average throughput: 545.35 Mbit/s

95th percentile per-packet one-way delay: 228.167 ms

Loss rate: 3.04%

-- Flow 2:

Average throughput: 128.71 Mbit/s

95th percentile per-packet one-way delay: 154.690 ms

Loss rate: 0.72%

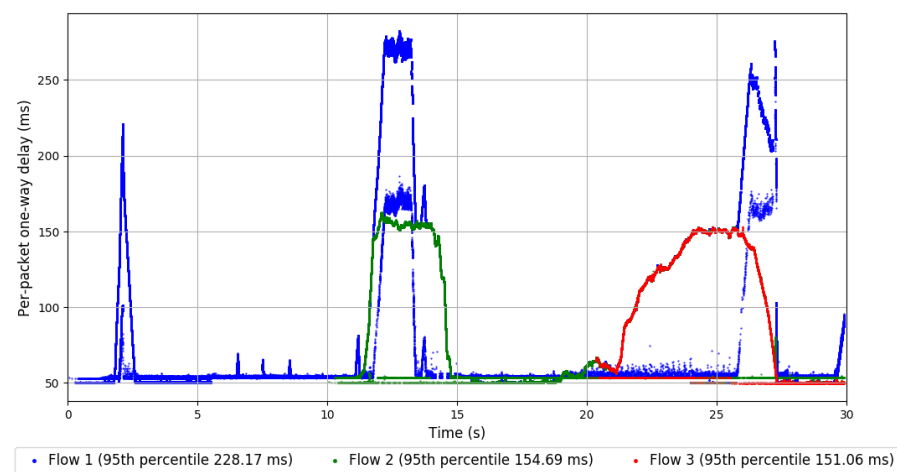
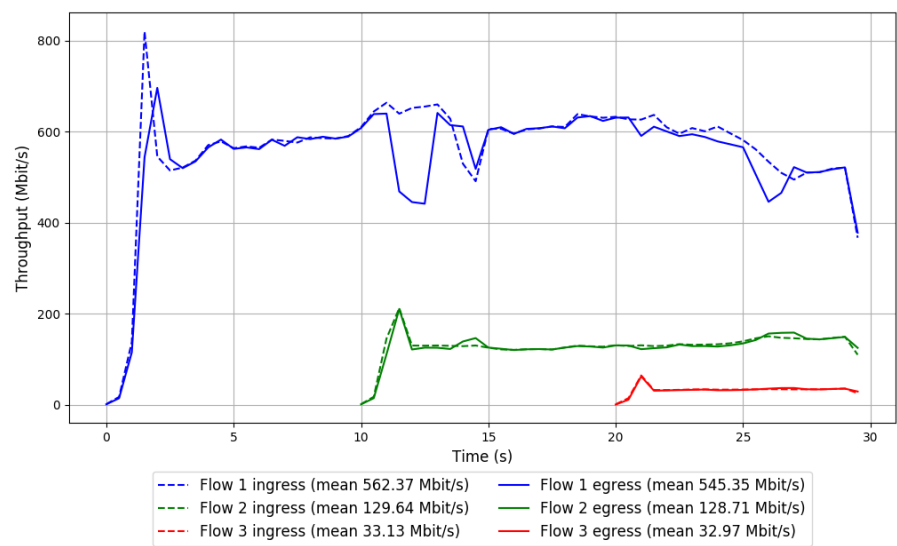
-- Flow 3:

Average throughput: 32.97 Mbit/s

95th percentile per-packet one-way delay: 151.058 ms

Loss rate: 0.52%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2017-11-21 22:48:15

End at: 2017-11-21 22:48:45

Below is generated by plot.py at 2017-11-22 00:52:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 649.27 Mbit/s

95th percentile per-packet one-way delay: 157.166 ms

Loss rate: 1.38%

-- Flow 1:

Average throughput: 598.50 Mbit/s

95th percentile per-packet one-way delay: 157.145 ms

Loss rate: 1.41%

-- Flow 2:

Average throughput: 60.21 Mbit/s

95th percentile per-packet one-way delay: 157.245 ms

Loss rate: 1.12%

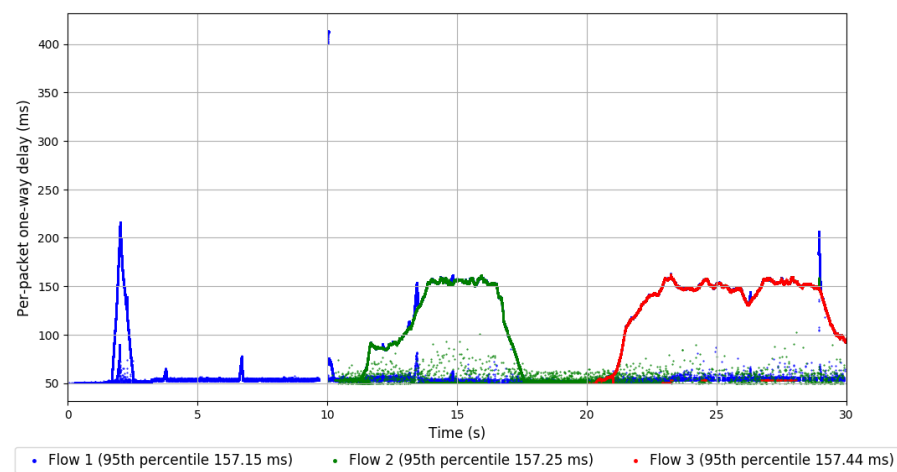
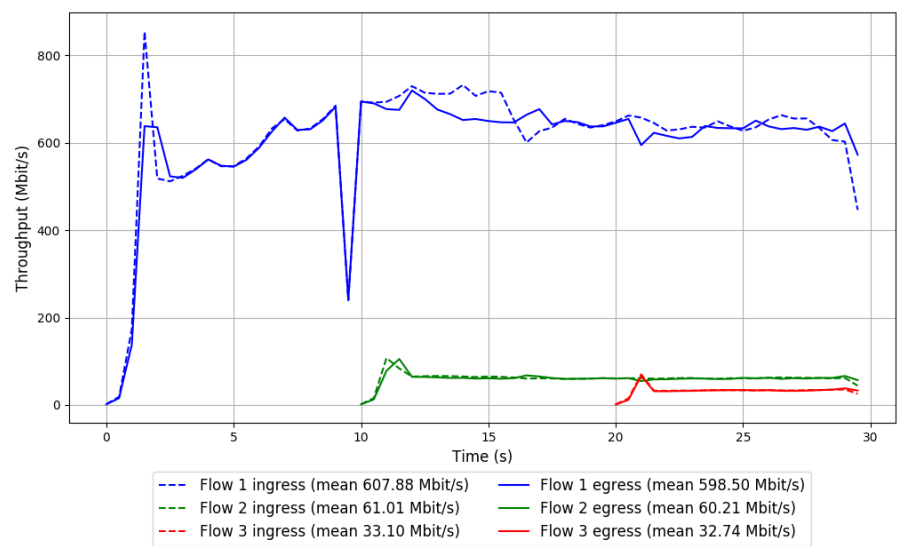
-- Flow 3:

Average throughput: 32.74 Mbit/s

95th percentile per-packet one-way delay: 157.436 ms

Loss rate: 0.67%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2017-11-21 23:00:23

End at: 2017-11-21 23:00:53

Below is generated by plot.py at 2017-11-22 00:52:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 512.32 Mbit/s

95th percentile per-packet one-way delay: 202.708 ms

Loss rate: 3.00%

-- Flow 1:

Average throughput: 490.75 Mbit/s

95th percentile per-packet one-way delay: 203.106 ms

Loss rate: 3.04%

-- Flow 2:

Average throughput: 2.30 Mbit/s

95th percentile per-packet one-way delay: 174.104 ms

Loss rate: 1.76%

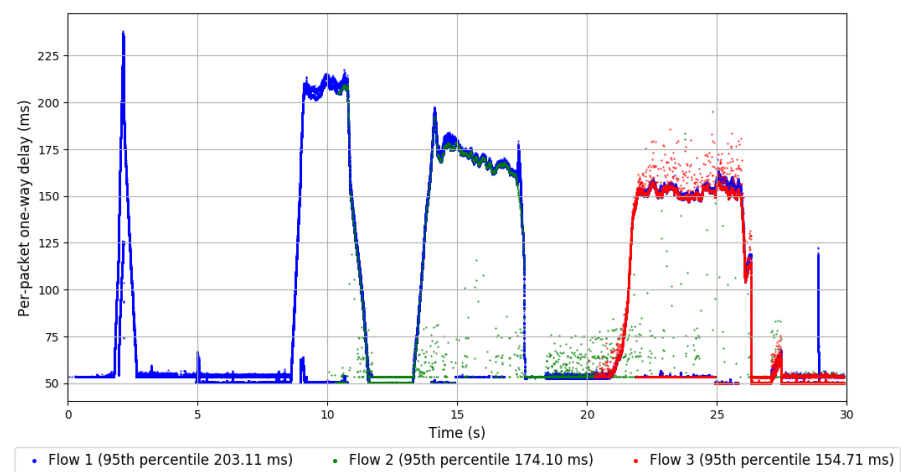
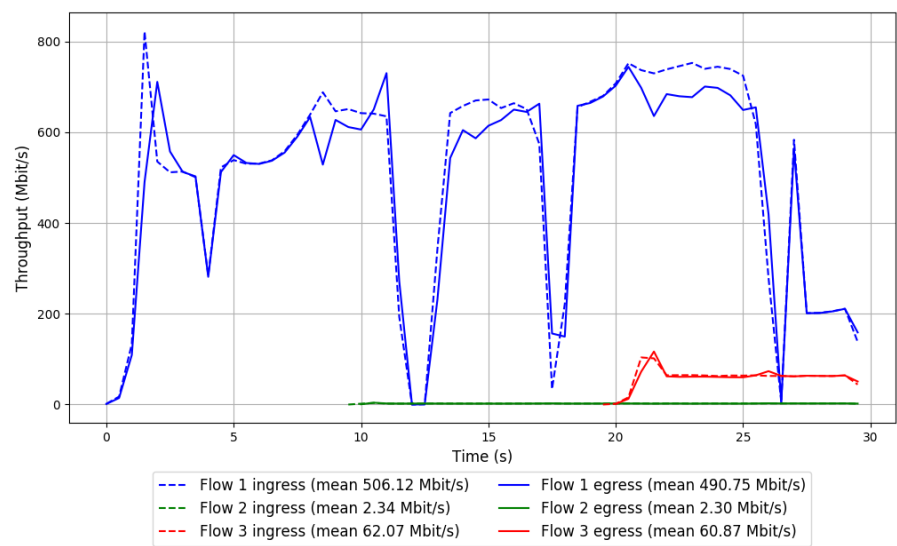
-- Flow 3:

Average throughput: 60.87 Mbit/s

95th percentile per-packet one-way delay: 154.705 ms

Loss rate: 2.03%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2017-11-21 23:12:09

End at: 2017-11-21 23:12:39

Below is generated by plot.py at 2017-11-22 01:02:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 679.56 Mbit/s

95th percentile per-packet one-way delay: 150.570 ms

Loss rate: 1.97%

-- Flow 1:

Average throughput: 577.61 Mbit/s

95th percentile per-packet one-way delay: 150.705 ms

Loss rate: 1.93%

-- Flow 2:

Average throughput: 125.56 Mbit/s

95th percentile per-packet one-way delay: 150.200 ms

Loss rate: 2.10%

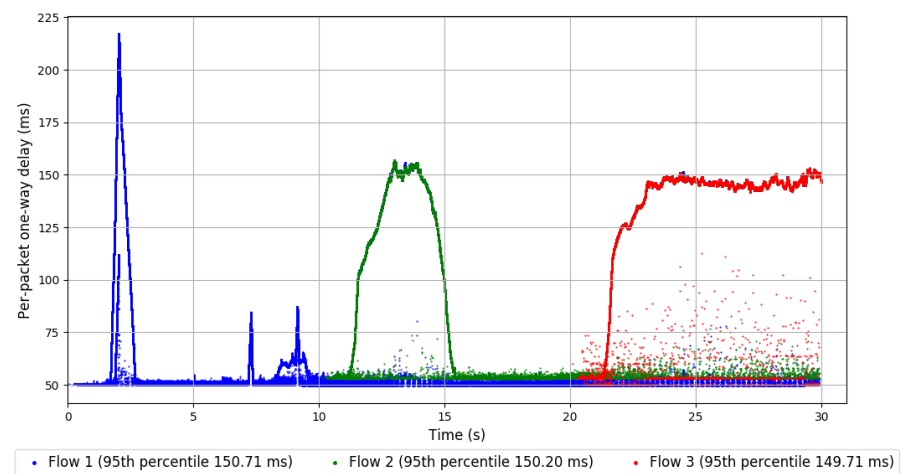
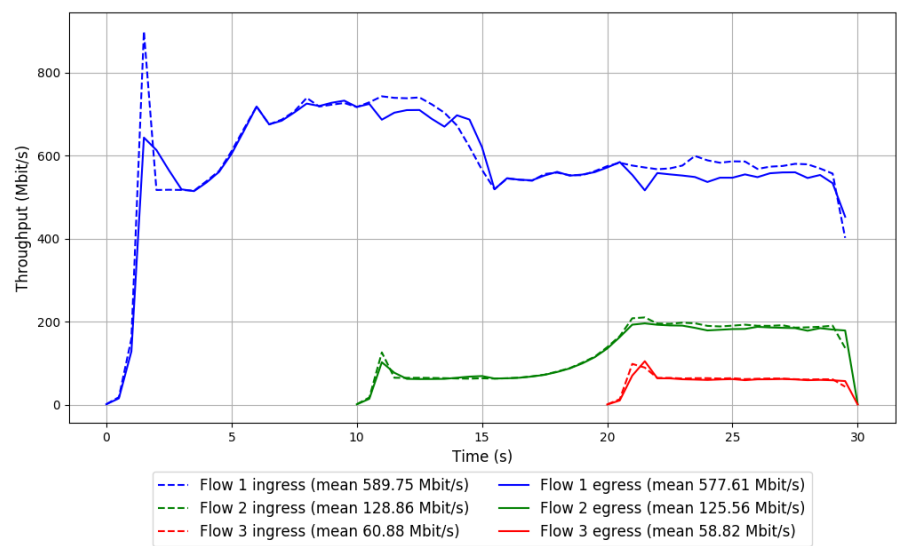
-- Flow 3:

Average throughput: 58.82 Mbit/s

95th percentile per-packet one-way delay: 149.711 ms

Loss rate: 2.54%

Run 9: Report of PCC — Data Link

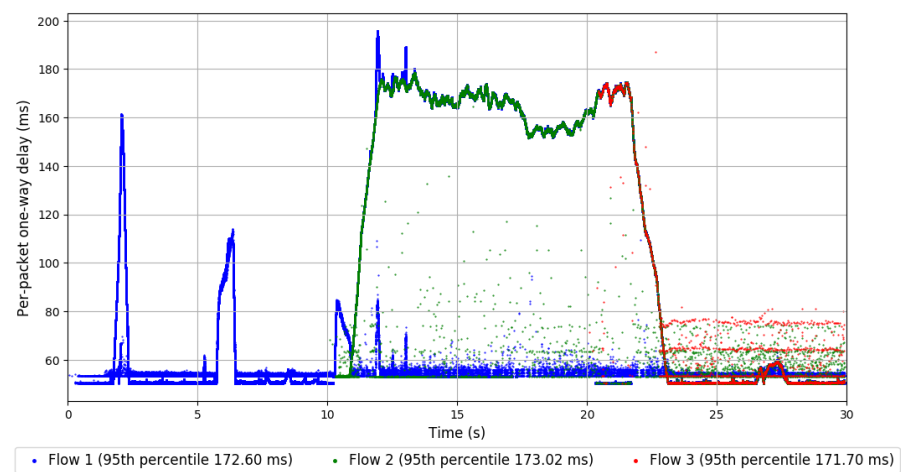
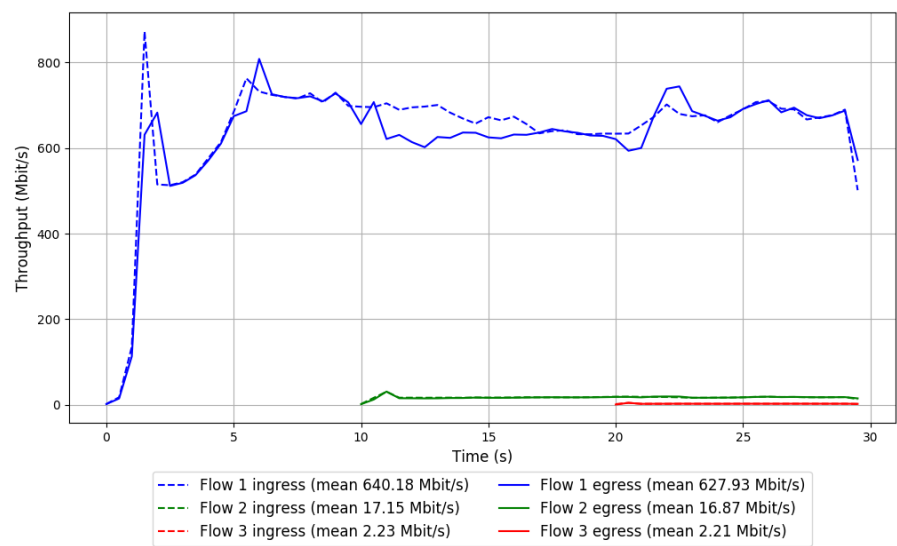


```
Run 10: Statistics of PCC

Start at: 2017-11-21 23:24:18
End at: 2017-11-21 23:24:48

# Below is generated by plot.py at 2017-11-22 01:02:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 639.86 Mbit/s
95th percentile per-packet one-way delay: 172.606 ms
Loss rate: 1.91%
-- Flow 1:
Average throughput: 627.93 Mbit/s
95th percentile per-packet one-way delay: 172.598 ms
Loss rate: 1.92%
-- Flow 2:
Average throughput: 16.87 Mbit/s
95th percentile per-packet one-way delay: 173.019 ms
Loss rate: 1.71%
-- Flow 3:
Average throughput: 2.21 Mbit/s
95th percentile per-packet one-way delay: 171.698 ms
Loss rate: 1.31%
```

Run 10: Report of PCC — Data Link

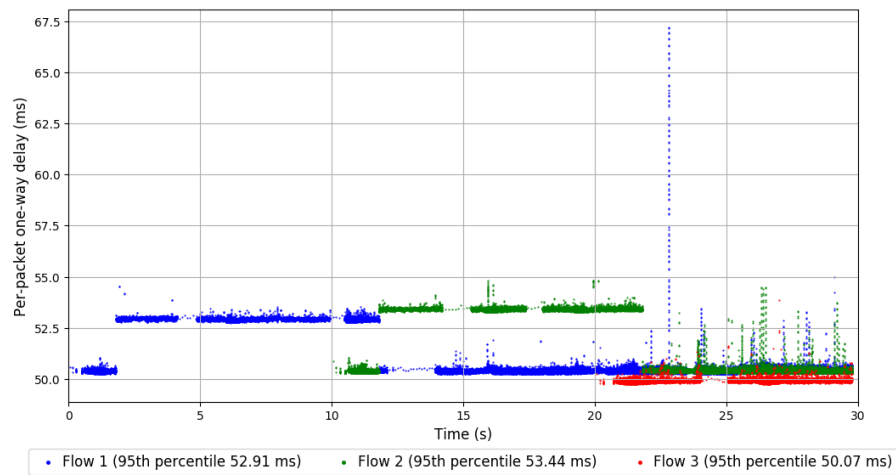
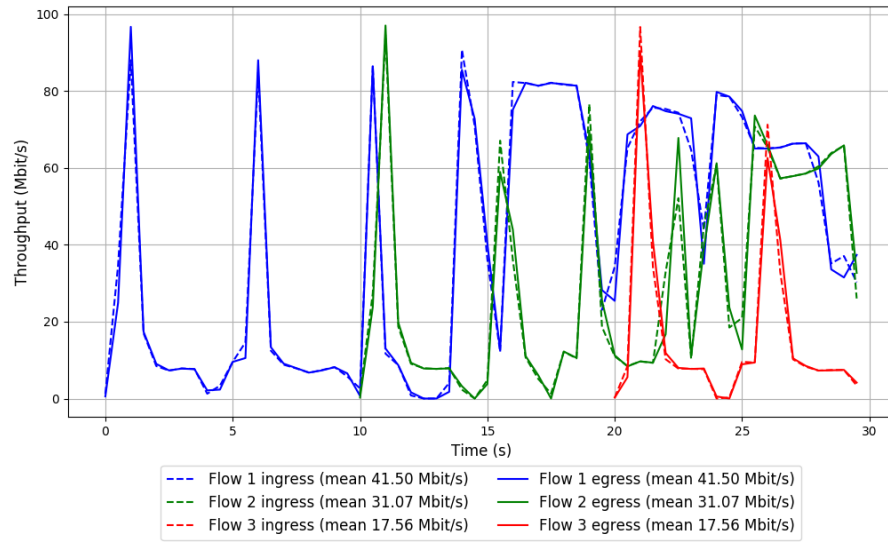


```
Run 1: Statistics of QUIC Cubic

Start at: 2017-11-21 21:34:16
End at: 2017-11-21 21:34:46

# Below is generated by plot.py at 2017-11-22 01:02:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 67.83 Mbit/s
95th percentile per-packet one-way delay: 53.357 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 41.50 Mbit/s
95th percentile per-packet one-way delay: 52.906 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 31.07 Mbit/s
95th percentile per-packet one-way delay: 53.444 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 17.56 Mbit/s
95th percentile per-packet one-way delay: 50.066 ms
Loss rate: 0.00%
```


Run 1: Report of QUIC Cubic — Data Link

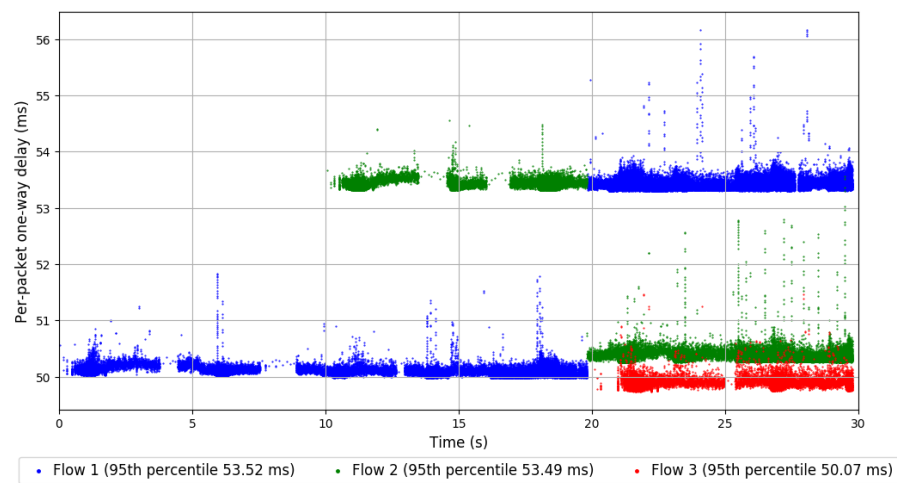
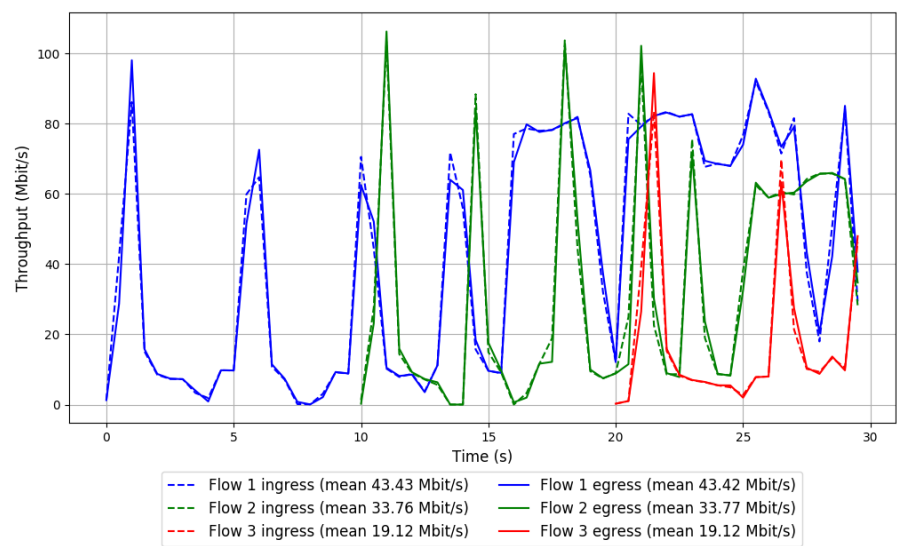


```
Run 2: Statistics of QUIC Cubic

Start at: 2017-11-21 21:46:08
End at: 2017-11-21 21:46:38

# Below is generated by plot.py at 2017-11-22 01:02:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 72.03 Mbit/s
95th percentile per-packet one-way delay: 53.503 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 43.42 Mbit/s
95th percentile per-packet one-way delay: 53.523 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 33.77 Mbit/s
95th percentile per-packet one-way delay: 53.489 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 19.12 Mbit/s
95th percentile per-packet one-way delay: 50.073 ms
Loss rate: 0.00%
```

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2017-11-21 21:58:22

End at: 2017-11-21 21:58:52

Below is generated by plot.py at 2017-11-22 01:02:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 83.50 Mbit/s

95th percentile per-packet one-way delay: 53.352 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 59.24 Mbit/s

95th percentile per-packet one-way delay: 50.452 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 28.23 Mbit/s

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

Loss rate: 0.00%

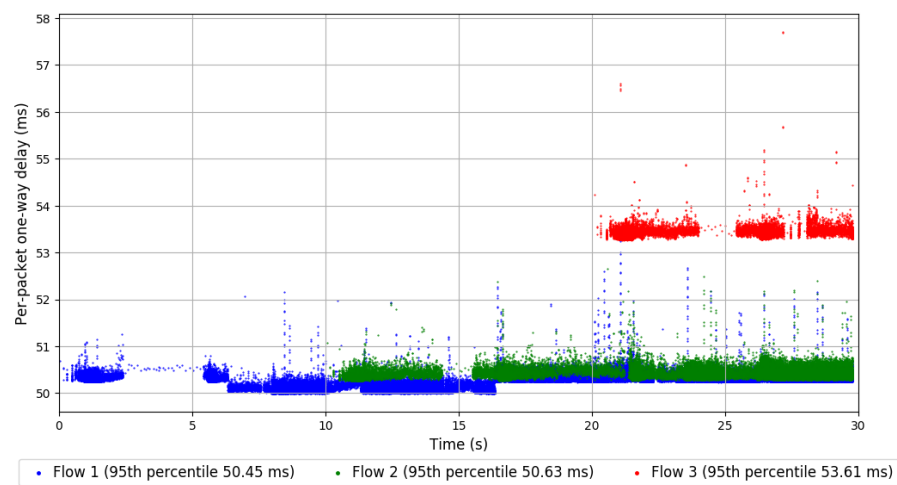
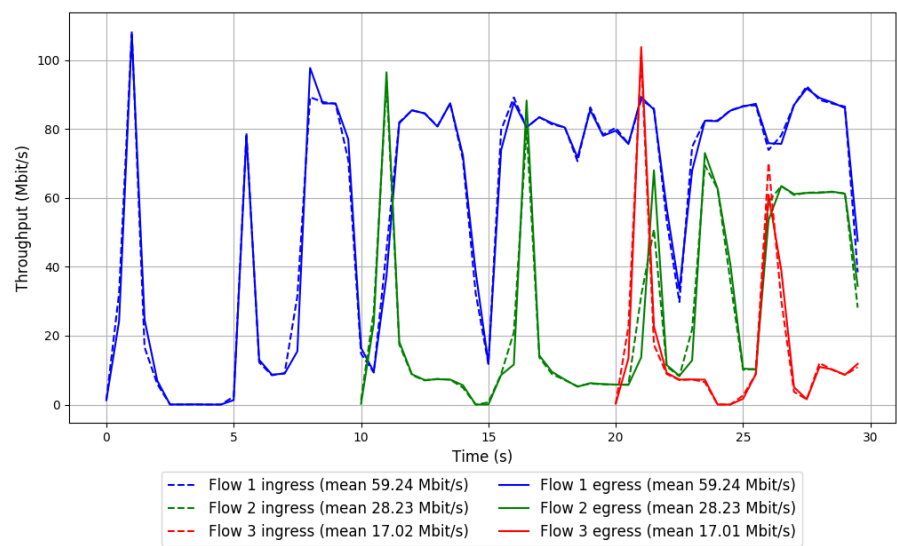
-- Flow 3:

Average throughput: 17.01 Mbit/s

95th percentile per-packet one-way delay: 53.609 ms

Loss rate: 0.00%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2017-11-21 22:10:21

End at: 2017-11-21 22:10:51

Below is generated by plot.py at 2017-11-22 01:02:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 83.22 Mbit/s

95th percentile per-packet one-way delay: 53.475 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 53.32 Mbit/s

95th percentile per-packet one-way delay: 53.510 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 33.98 Mbit/s

95th percentile per-packet one-way delay: 53.376 ms

Loss rate: 0.00%

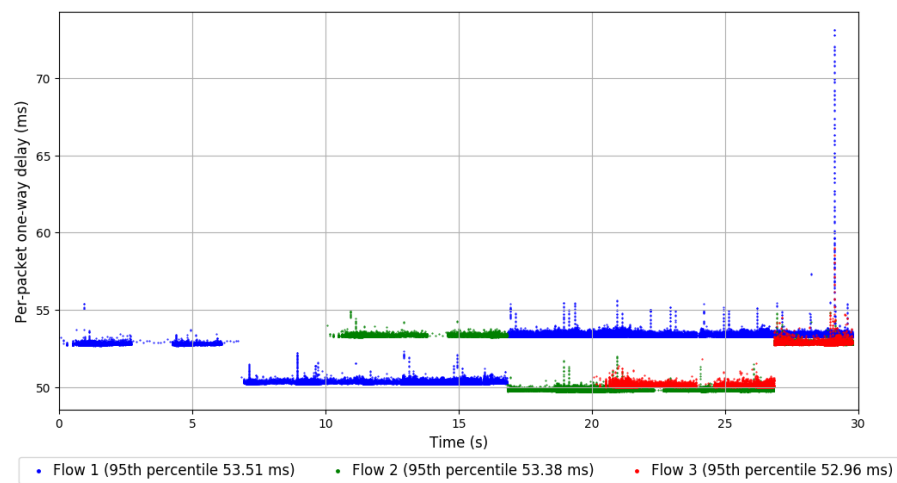
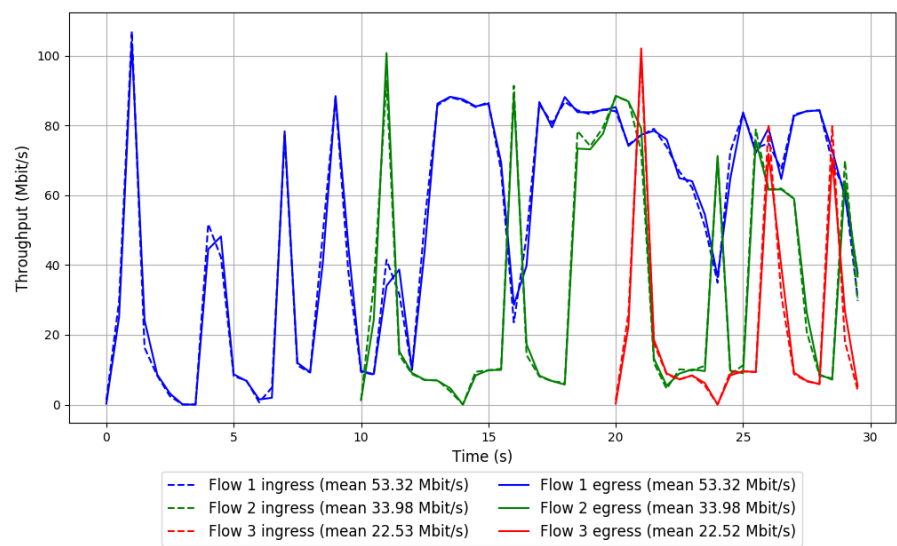
-- Flow 3:

Average throughput: 22.52 Mbit/s

95th percentile per-packet one-way delay: 52.961 ms

Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2017-11-21 22:22:29

End at: 2017-11-21 22:22:59

Below is generated by plot.py at 2017-11-22 01:02:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 83.49 Mbit/s

95th percentile per-packet one-way delay: 53.567 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 53.25 Mbit/s

95th percentile per-packet one-way delay: 53.585 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 32.28 Mbit/s

95th percentile per-packet one-way delay: 50.281 ms

Loss rate: 0.00%

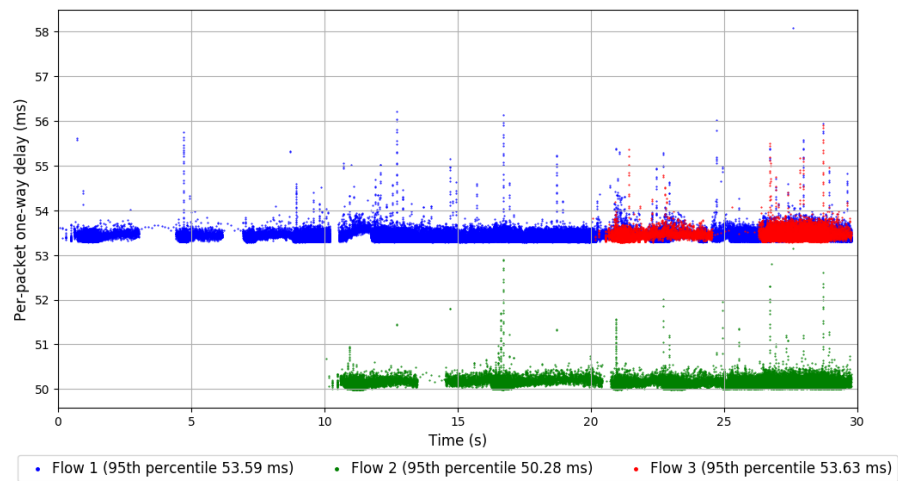
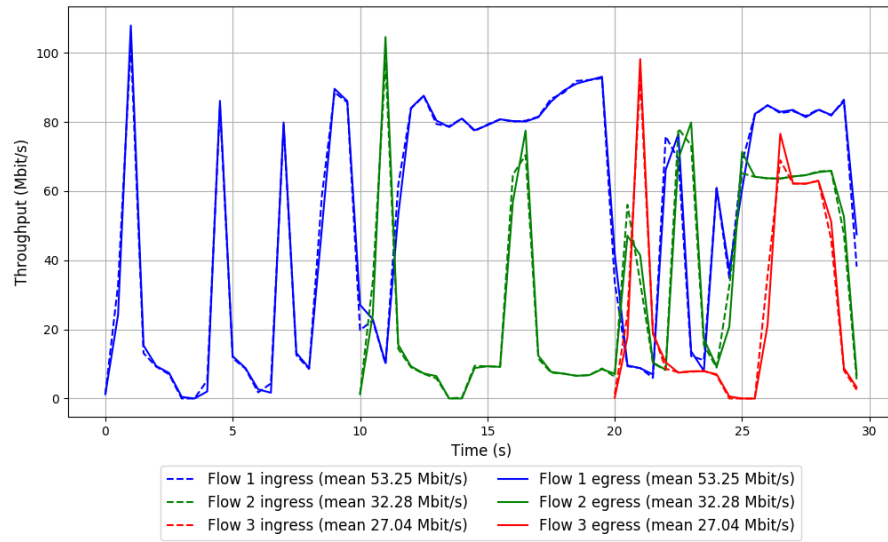
-- Flow 3:

Average throughput: 27.04 Mbit/s

95th percentile per-packet one-way delay: 53.635 ms

Loss rate: 0.00%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2017-11-21 22:34:38

End at: 2017-11-21 22:35:08

Below is generated by plot.py at 2017-11-22 01:02:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.65 Mbit/s

95th percentile per-packet one-way delay: 53.425 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 53.64 Mbit/s

95th percentile per-packet one-way delay: 53.189 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 36.90 Mbit/s

95th percentile per-packet one-way delay: 53.451 ms

Loss rate: 0.00%

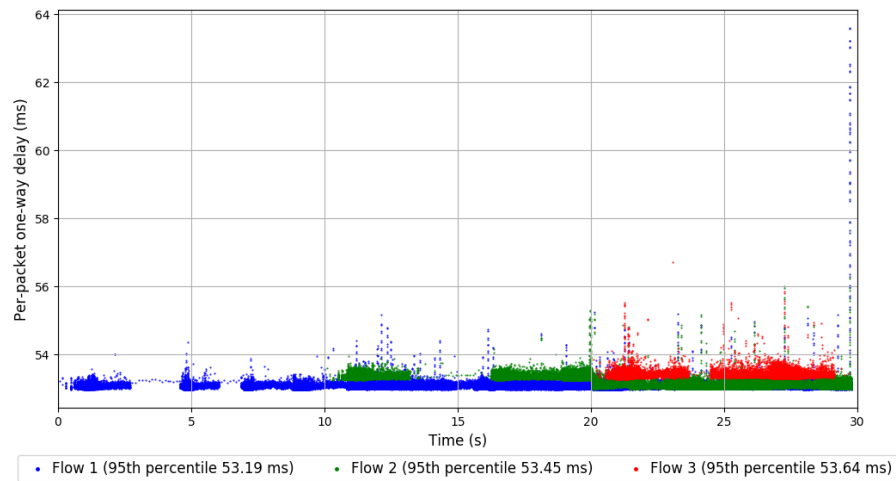
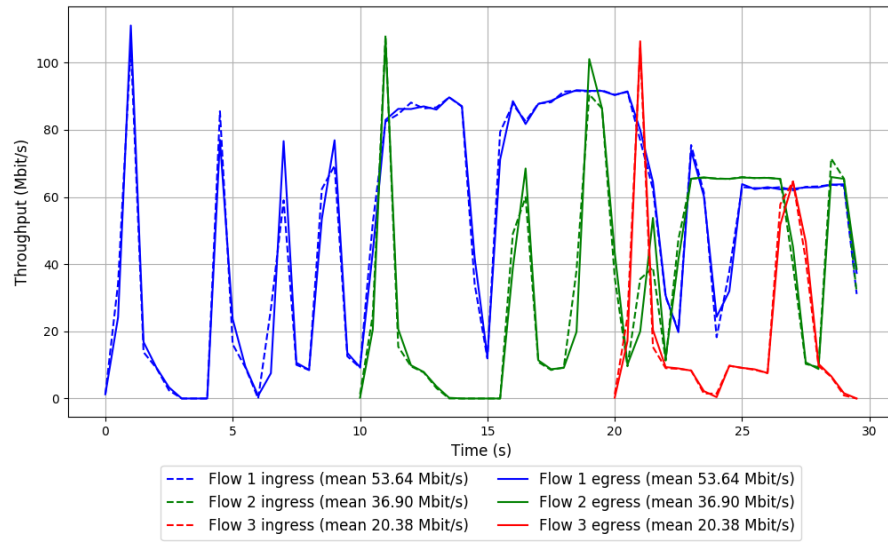
-- Flow 3:

Average throughput: 20.38 Mbit/s

95th percentile per-packet one-way delay: 53.636 ms

Loss rate: 0.00%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2017-11-21 22:46:49

End at: 2017-11-21 22:47:19

Below is generated by plot.py at 2017-11-22 01:02:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 101.90 Mbit/s

95th percentile per-packet one-way delay: 53.136 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 52.15 Mbit/s

95th percentile per-packet one-way delay: 53.179 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 64.24 Mbit/s

95th percentile per-packet one-way delay: 50.003 ms

Loss rate: 0.00%

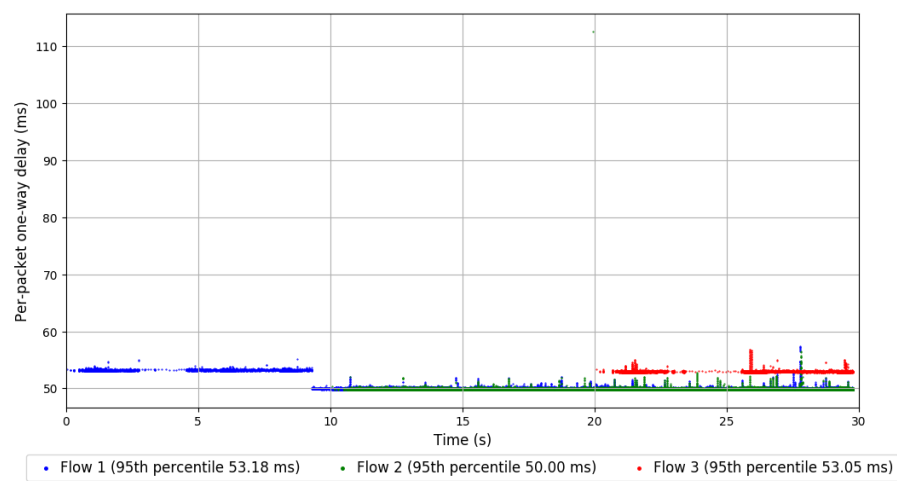
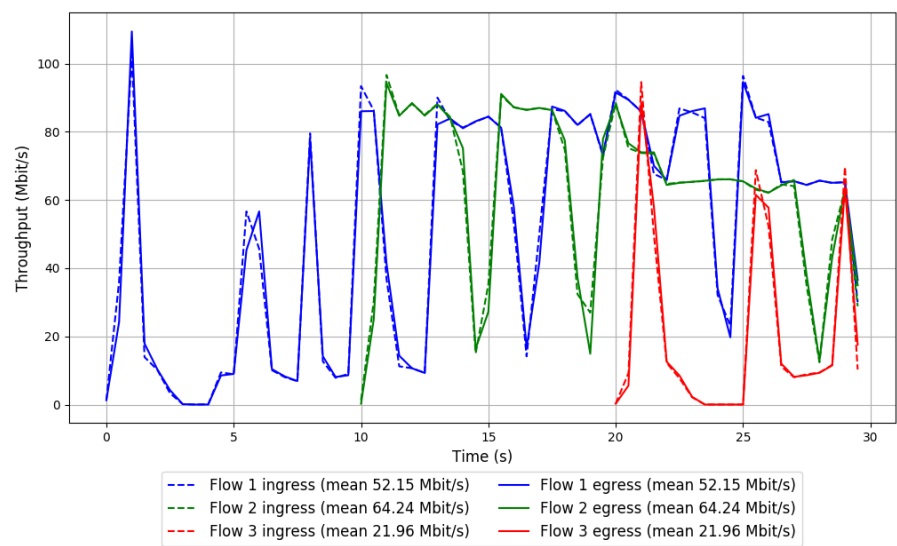
-- Flow 3:

Average throughput: 21.96 Mbit/s

95th percentile per-packet one-way delay: 53.054 ms

Loss rate: 0.00%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2017-11-21 22:58:58

End at: 2017-11-21 22:59:28

Below is generated by plot.py at 2017-11-22 01:02:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.71 Mbit/s

95th percentile per-packet one-way delay: 53.391 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 51.69 Mbit/s

95th percentile per-packet one-way delay: 53.433 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 33.03 Mbit/s

95th percentile per-packet one-way delay: 53.057 ms

Loss rate: 0.00%

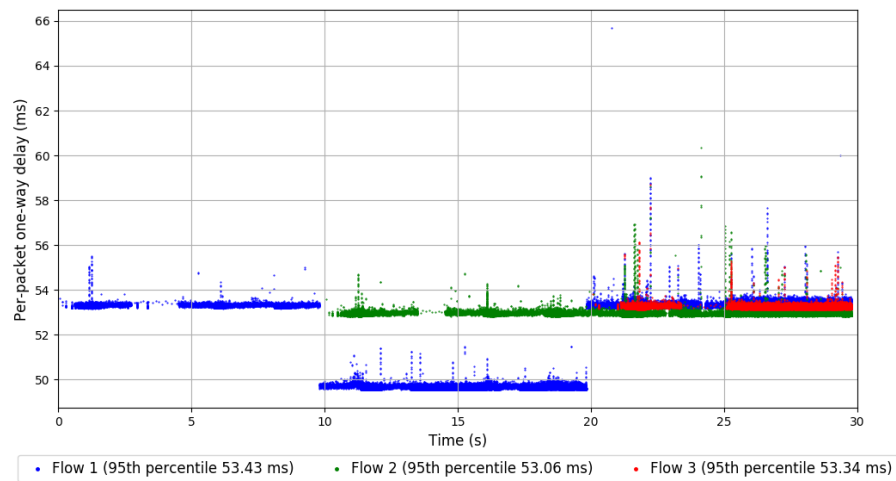
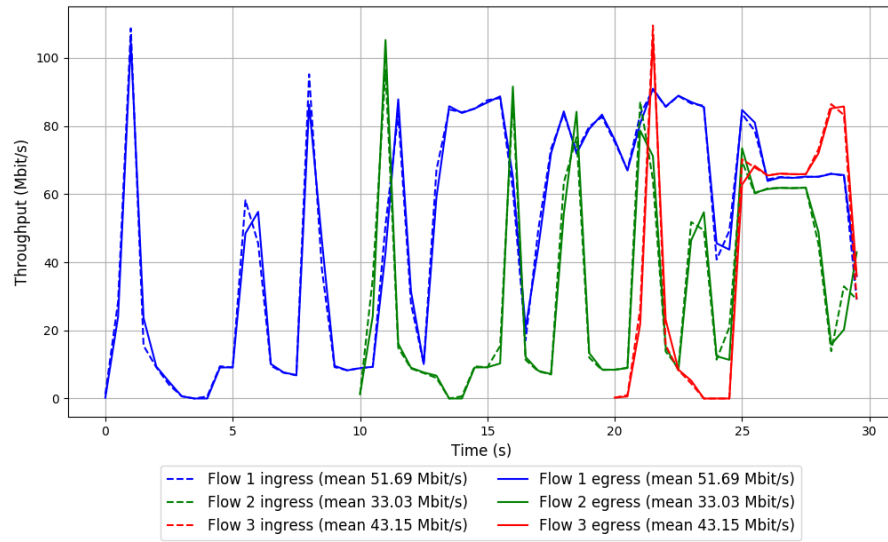
-- Flow 3:

Average throughput: 43.15 Mbit/s

95th percentile per-packet one-way delay: 53.342 ms

Loss rate: 0.00%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2017-11-21 23:10:43

End at: 2017-11-21 23:11:13

Below is generated by plot.py at 2017-11-22 01:02:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 105.12 Mbit/s

95th percentile per-packet one-way delay: 53.375 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 73.85 Mbit/s

95th percentile per-packet one-way delay: 53.312 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 37.52 Mbit/s

95th percentile per-packet one-way delay: 53.451 ms

Loss rate: 0.04%

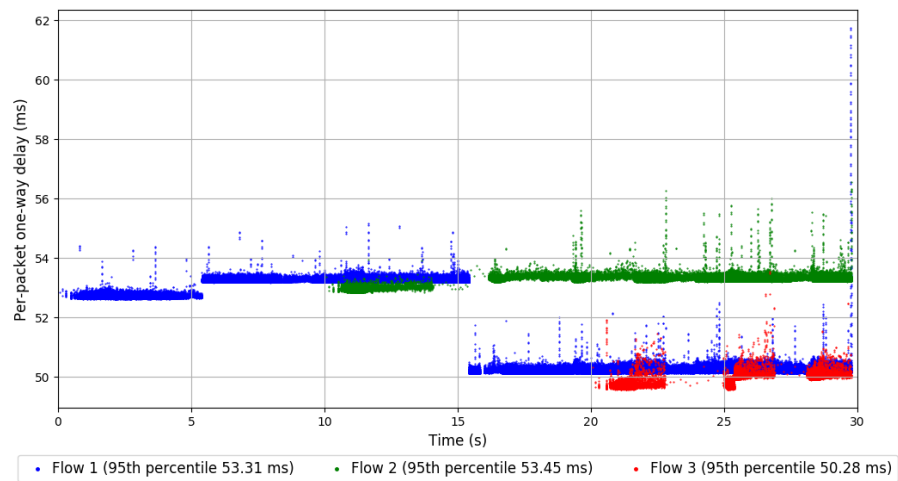
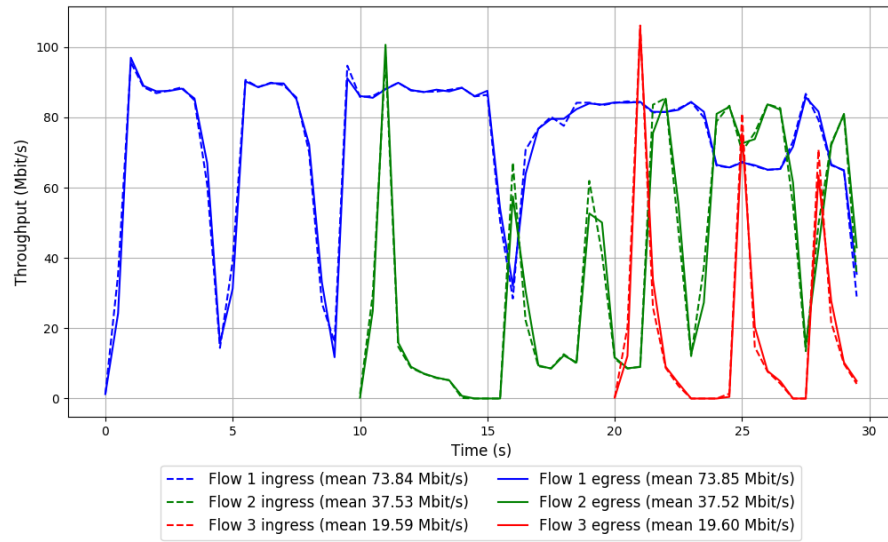
-- Flow 3:

Average throughput: 19.60 Mbit/s

95th percentile per-packet one-way delay: 50.284 ms

Loss rate: 0.01%

Run 9: Report of QUIC Cubic — Data Link

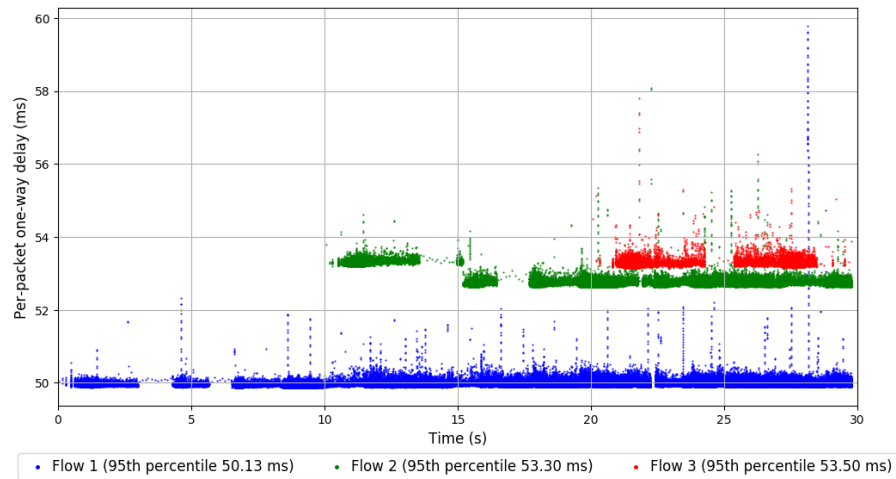
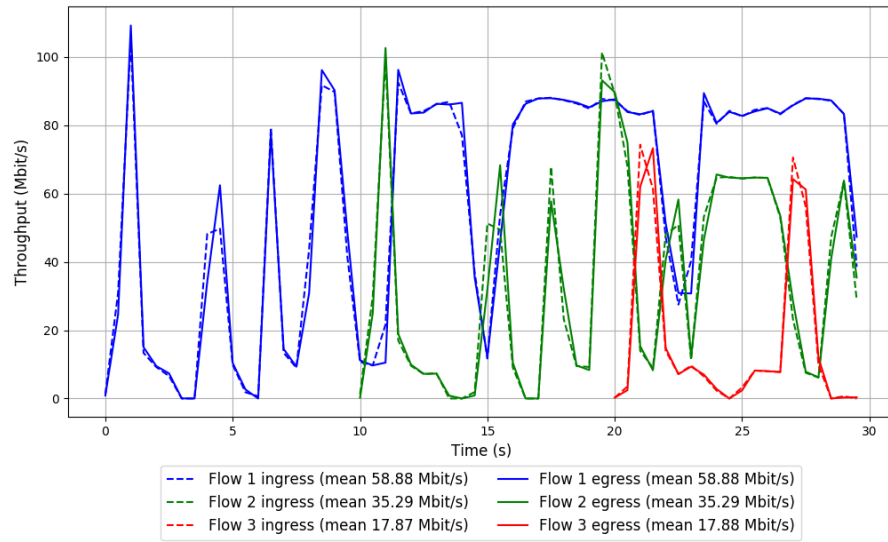


```
Run 10: Statistics of QUIC Cubic

Start at: 2017-11-21 23:22:53
End at: 2017-11-21 23:23:23

# Below is generated by plot.py at 2017-11-22 01:02:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 88.05 Mbit/s
95th percentile per-packet one-way delay: 53.265 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 58.88 Mbit/s
95th percentile per-packet one-way delay: 50.132 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 35.29 Mbit/s
95th percentile per-packet one-way delay: 53.297 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 17.88 Mbit/s
95th percentile per-packet one-way delay: 53.502 ms
Loss rate: 0.00%
```

Run 10: Report of QUIC Cubic — Data Link

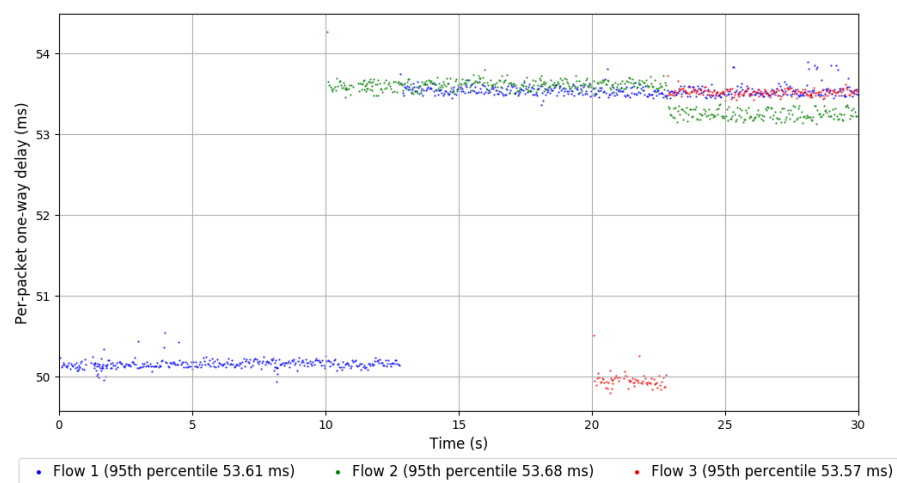
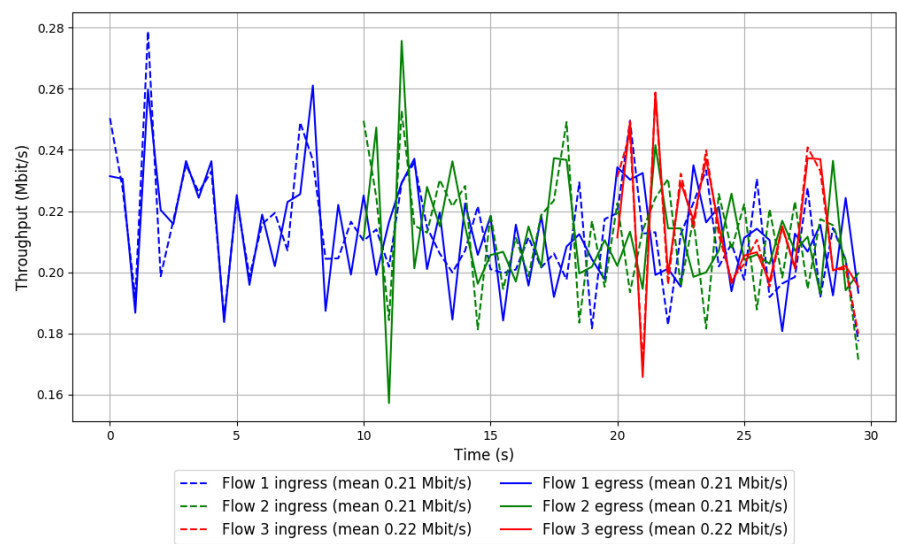


```
Run 1: Statistics of SCReAM

Start at: 2017-11-21 21:32:45
End at: 2017-11-21 21:33:15

# Below is generated by plot.py at 2017-11-22 01:02:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 53.661 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.606 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.684 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 53.567 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

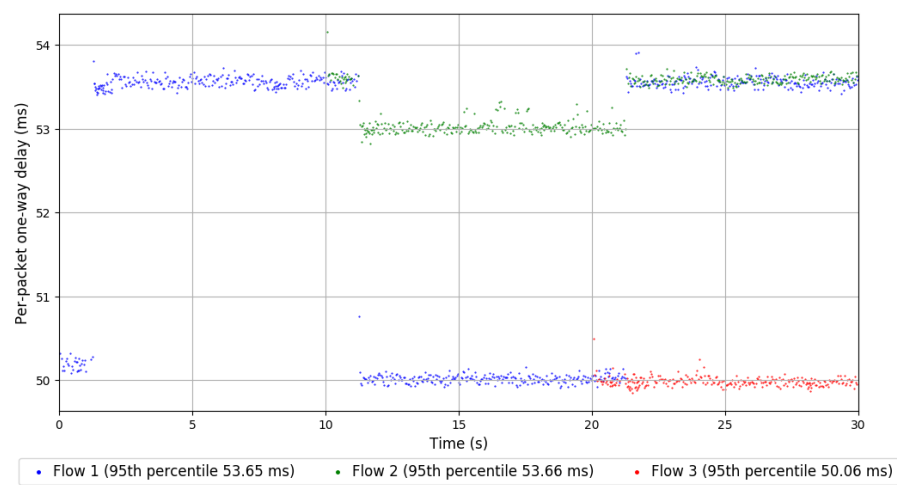
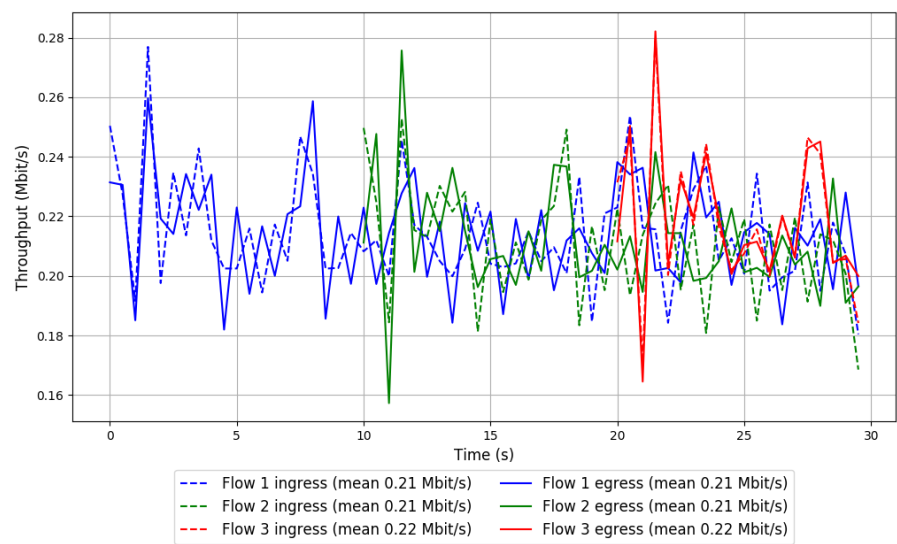


```
Run 2: Statistics of SCReAM

Start at: 2017-11-21 21:44:37
End at: 2017-11-21 21:45:07

# Below is generated by plot.py at 2017-11-22 01:02:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 53.645 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.648 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.656 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.062 ms
Loss rate: 0.00%
```

Run 2: Report of SReAM — Data Link

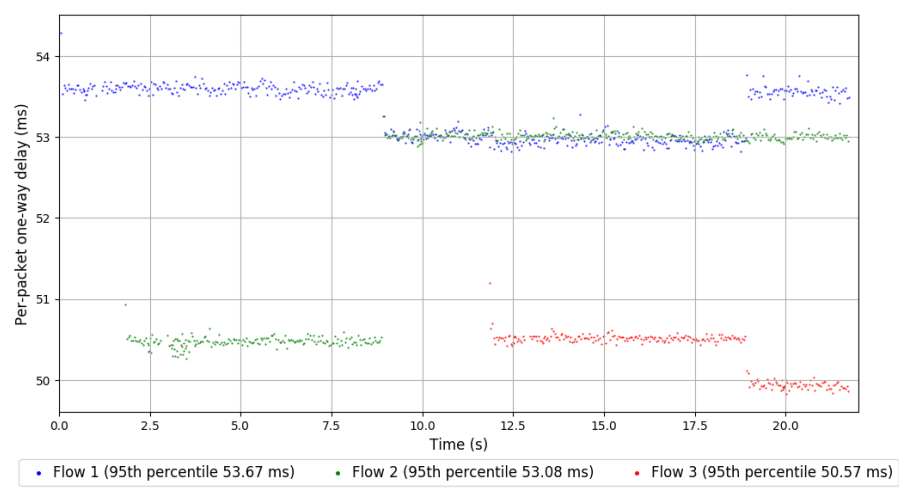
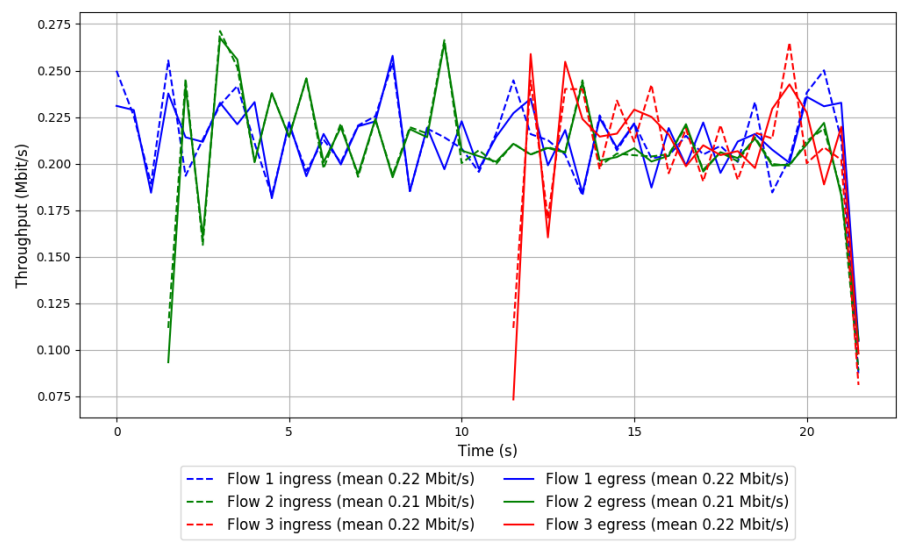


Run 3: Statistics of SReAM

Start at: 2017-11-21 21:56:51

End at: 2017-11-21 21:57:21

Run 3: Report of SReAM — Data Link

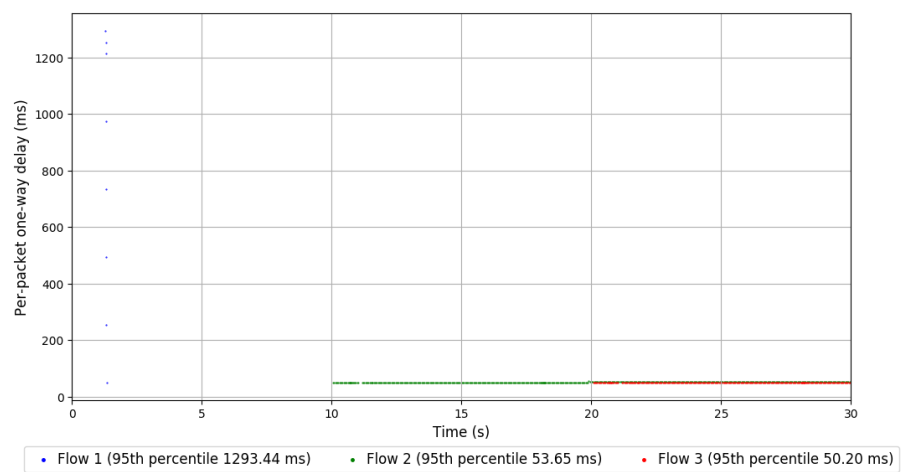
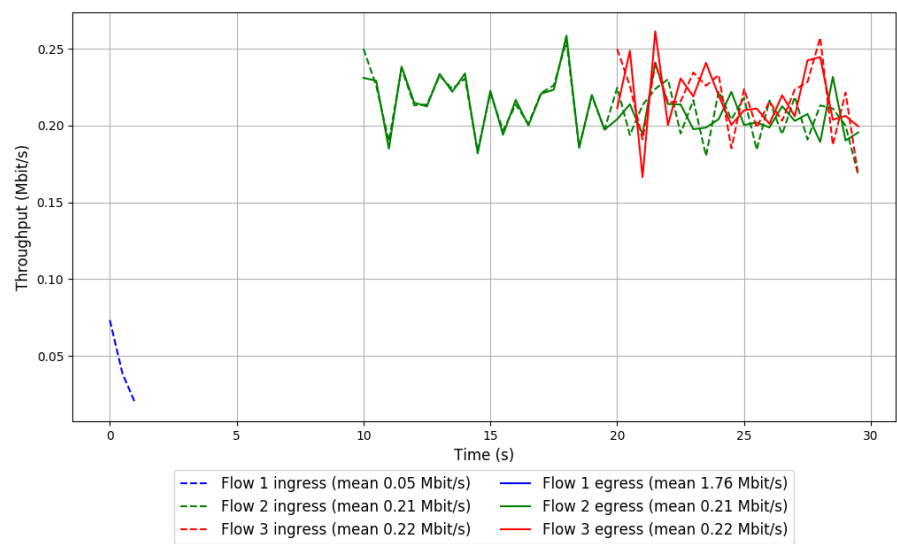


```
Run 4: Statistics of SReAM

Start at: 2017-11-21 22:08:48
End at: 2017-11-21 22:09:18

# Below is generated by plot.py at 2017-11-22 01:02:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.23 Mbit/s
95th percentile per-packet one-way delay: 53.642 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.76 Mbit/s
95th percentile per-packet one-way delay: 1293.444 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.648 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.197 ms
Loss rate: 0.00%
```

Run 4: Report of SReAM — Data Link

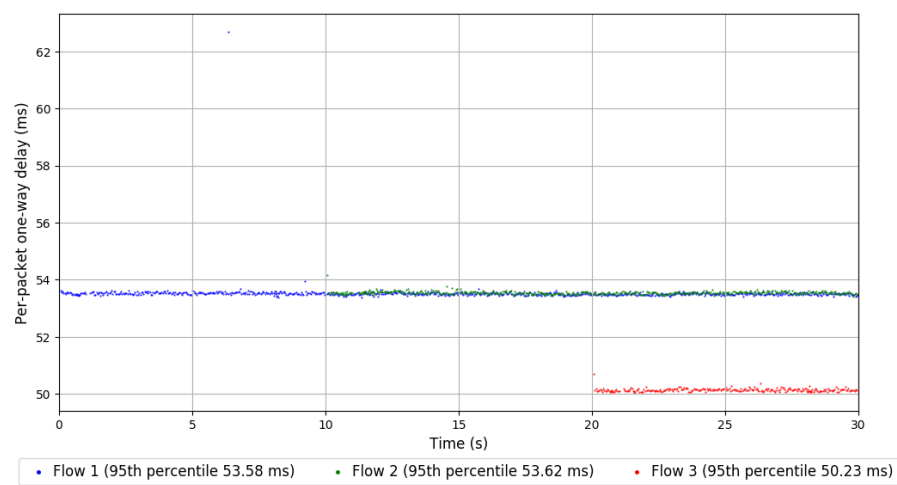
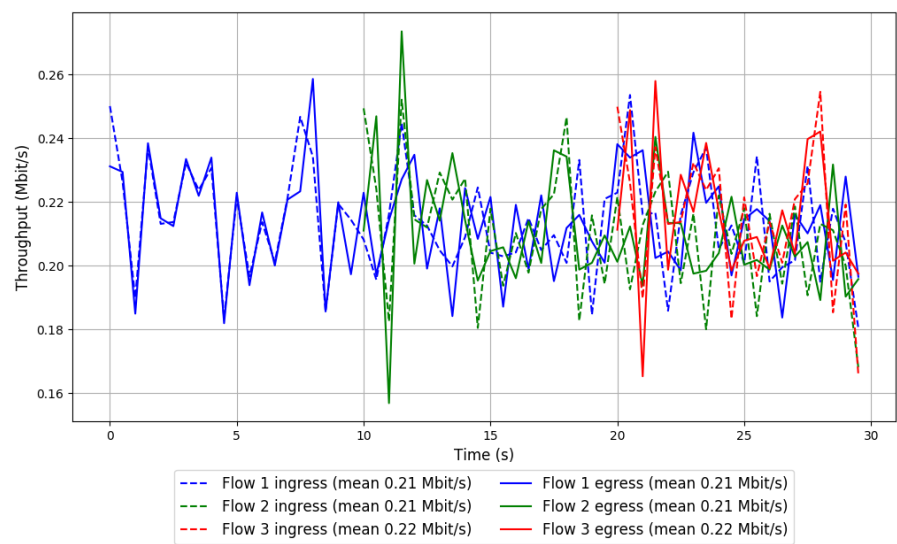


```
Run 5: Statistics of SCReAM

Start at: 2017-11-21 22:20:57
End at: 2017-11-21 22:21:27

# Below is generated by plot.py at 2017-11-22 01:02:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 53.597 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.584 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.622 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 5: Report of SReAM — Data Link

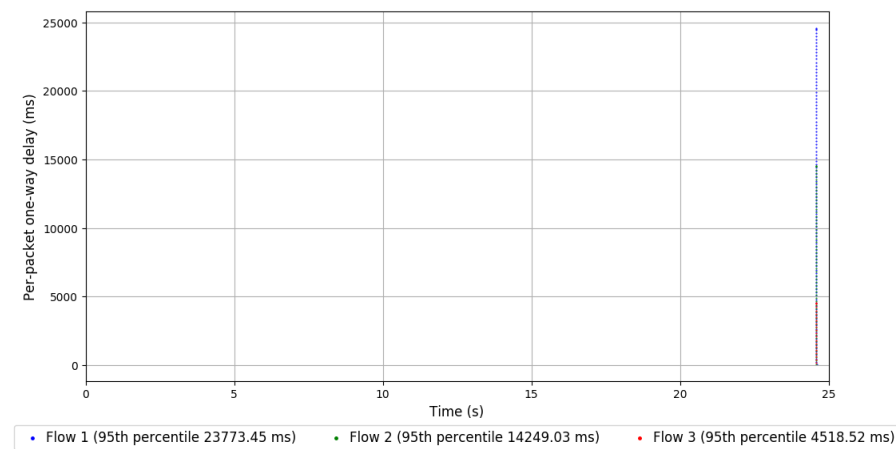
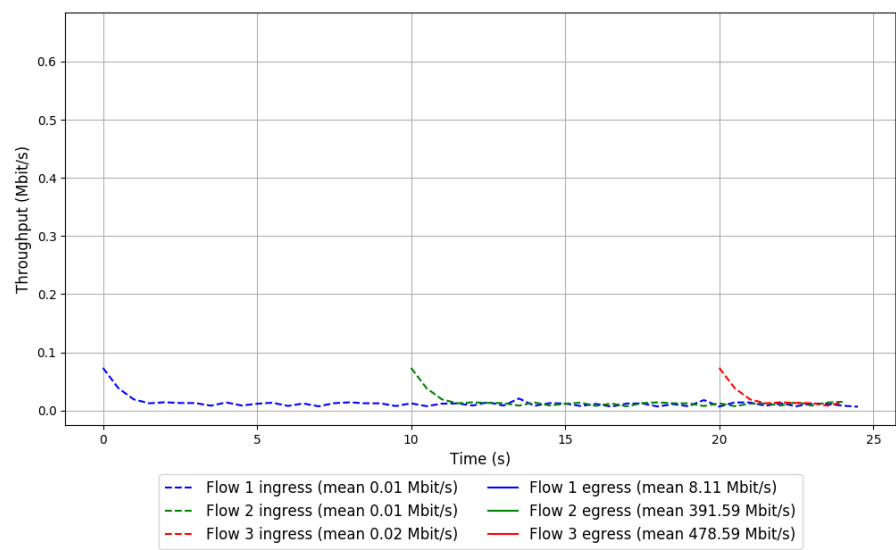


Run 6: Statistics of SReAM

Start at: 2017-11-21 22:33:06

End at: 2017-11-21 22:33:36

Run 6: Report of SReAM — Data Link

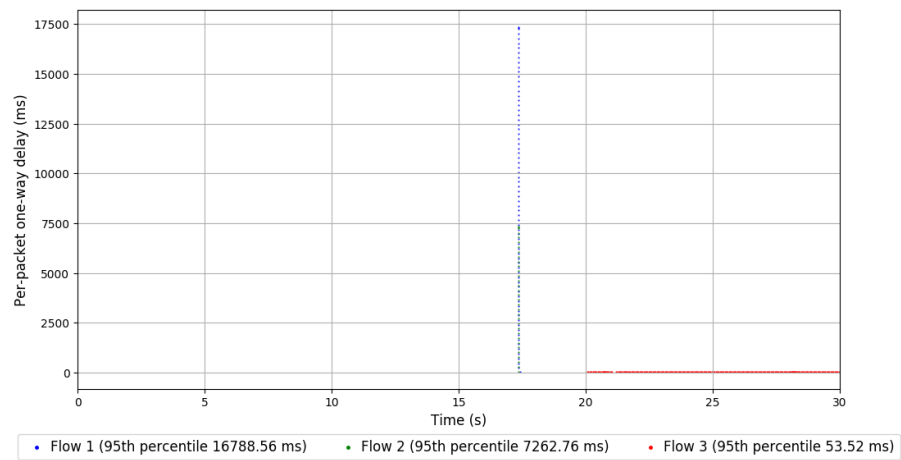
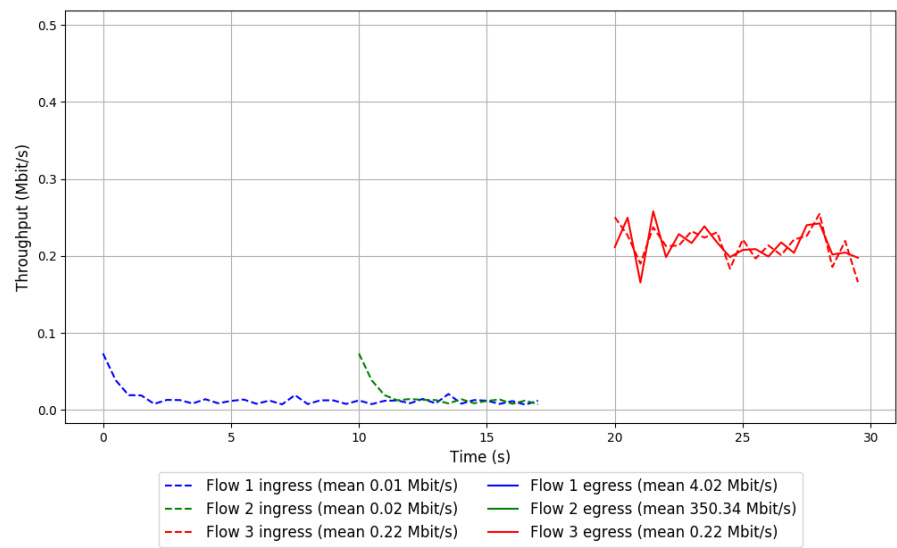


Run 7: Statistics of SReAM

Start at: 2017-11-21 22:45:18

End at: 2017-11-21 22:45:48

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SReAM

Start at: 2017-11-21 22:57:28

End at: 2017-11-21 22:57:58

Below is generated by plot.py at 2017-11-22 01:02:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 52.906 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 52.931 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.144 ms

Loss rate: 0.00%

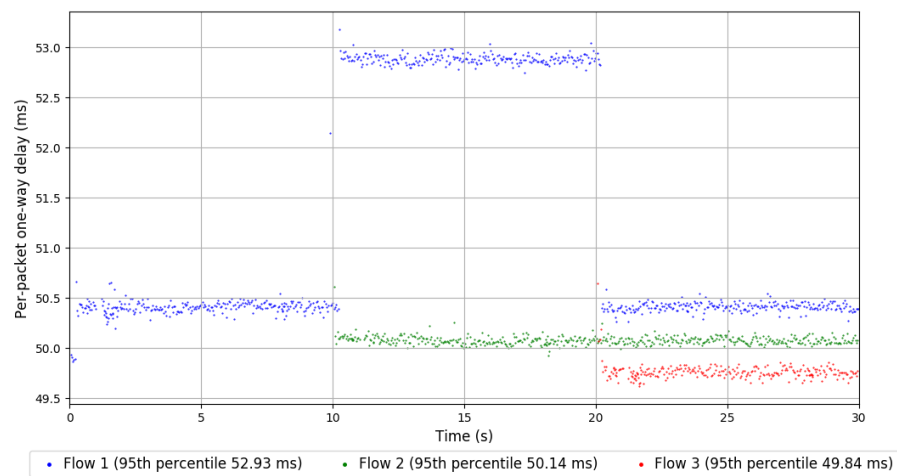
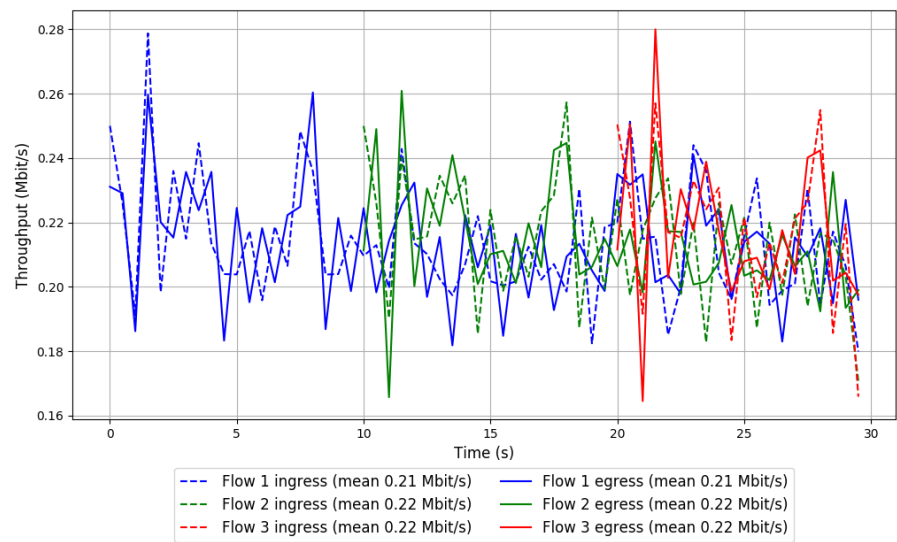
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 49.835 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2017-11-21 23:09:14

End at: 2017-11-21 23:09:44

Below is generated by plot.py at 2017-11-22 01:02:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.47 Mbit/s

95th percentile per-packet one-way delay: 53.531 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.549 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.451 ms

Loss rate: 0.00%

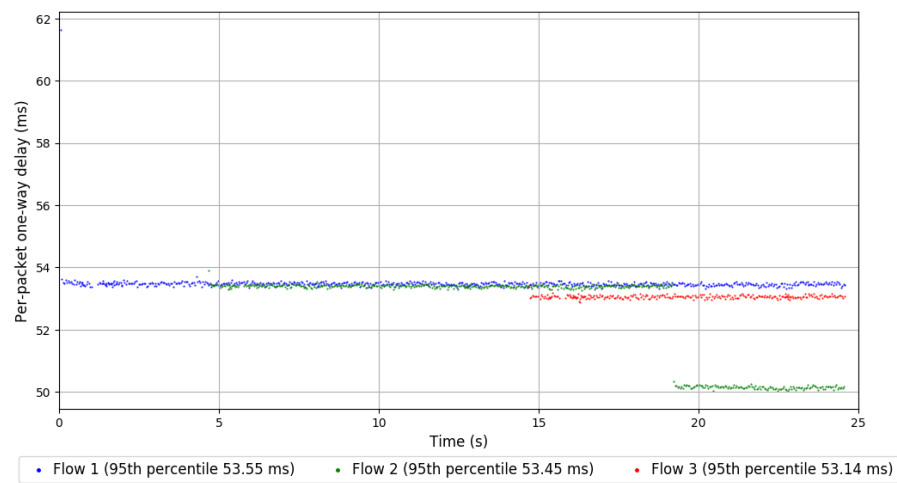
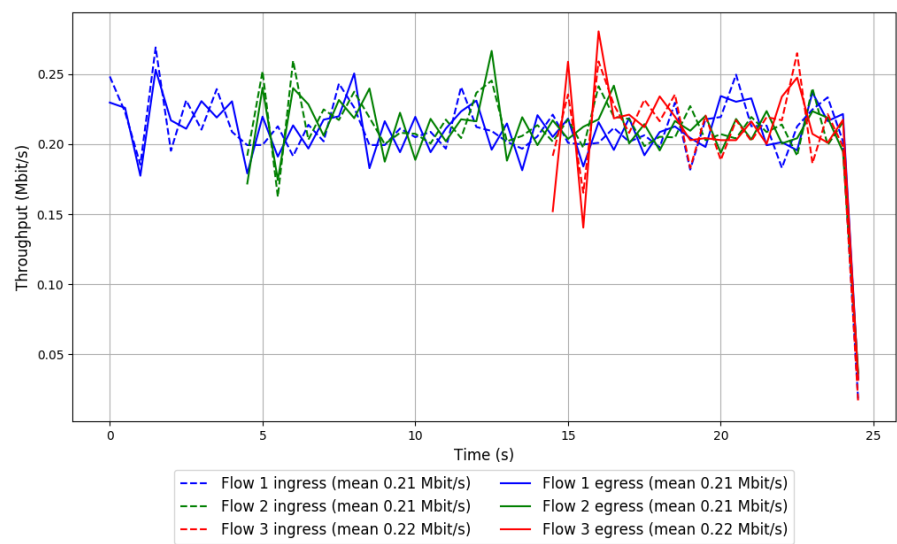
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 53.137 ms

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link

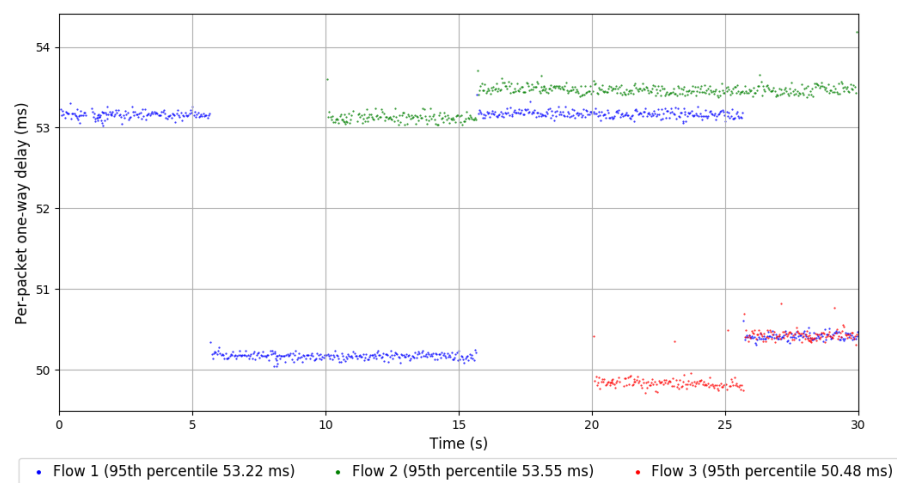
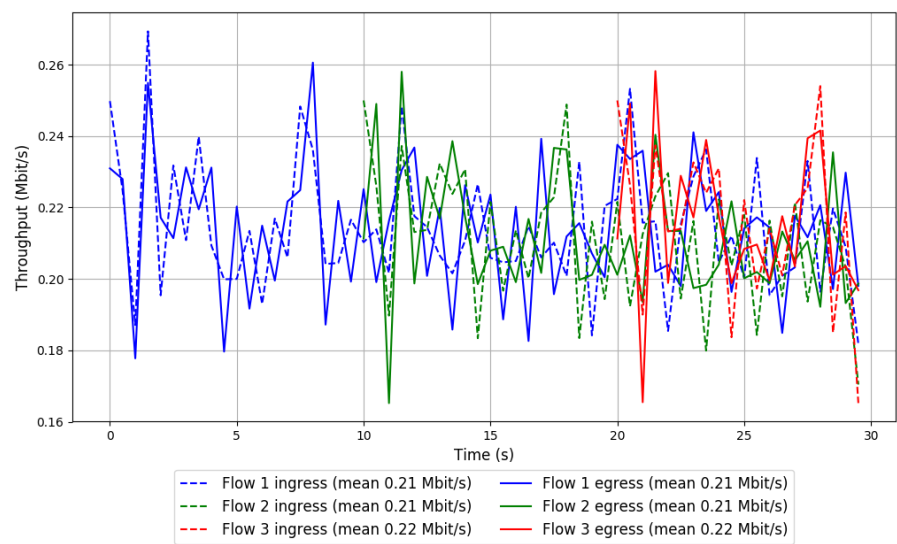


```
Run 10: Statistics of SReAM

Start at: 2017-11-21 23:21:23
End at: 2017-11-21 23:21:53

# Below is generated by plot.py at 2017-11-22 01:02:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 53.512 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.220 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.547 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.484 ms
Loss rate: 0.00%
```

Run 10: Report of SReAM — Data Link

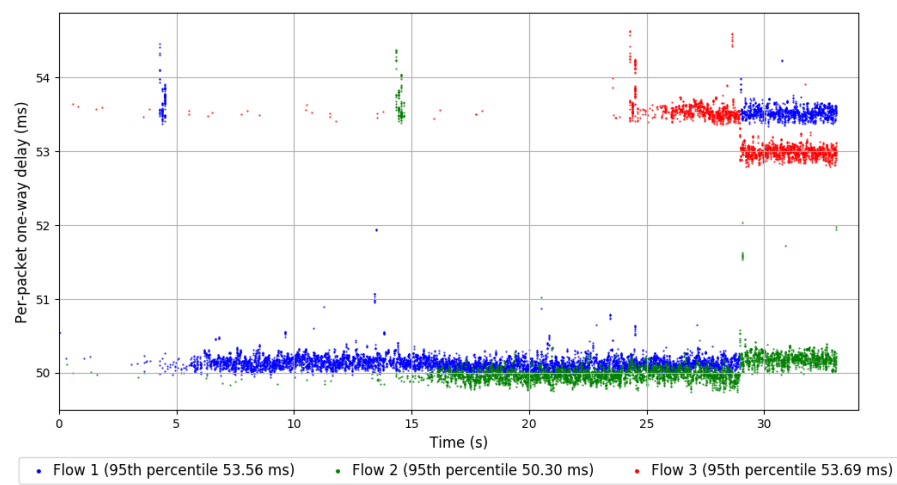
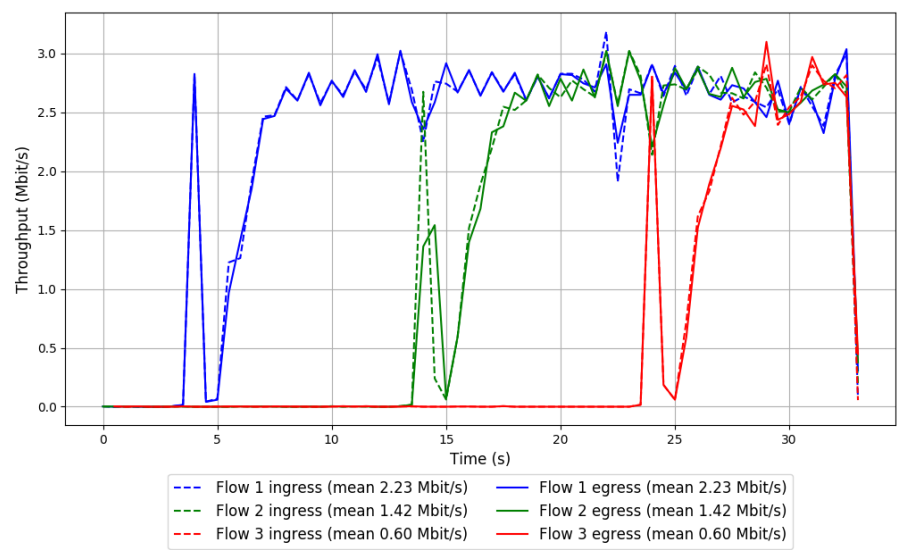


```
Run 1: Statistics of WebRTC media

Start at: 2017-11-21 21:28:32
End at: 2017-11-21 21:29:02

# Below is generated by plot.py at 2017-11-22 01:02:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.23 Mbit/s
95th percentile per-packet one-way delay: 53.572 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.23 Mbit/s
95th percentile per-packet one-way delay: 53.561 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.42 Mbit/s
95th percentile per-packet one-way delay: 50.298 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.60 Mbit/s
95th percentile per-packet one-way delay: 53.686 ms
Loss rate: 0.00%
```


Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2017-11-21 21:40:23

End at: 2017-11-21 21:40:53

Below is generated by plot.py at 2017-11-22 01:02:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.78 Mbit/s

95th percentile per-packet one-way delay: 53.681 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 2.44 Mbit/s

95th percentile per-packet one-way delay: 50.651 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.73 Mbit/s

95th percentile per-packet one-way delay: 53.694 ms

Loss rate: 0.00%

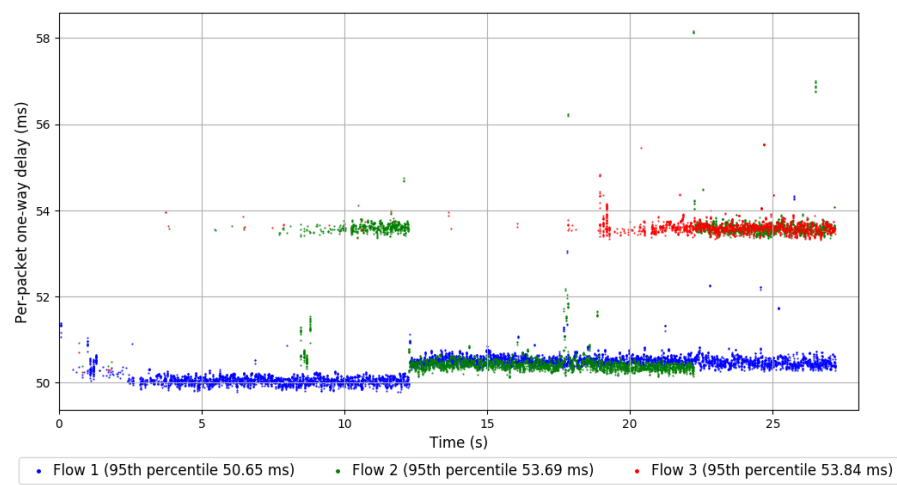
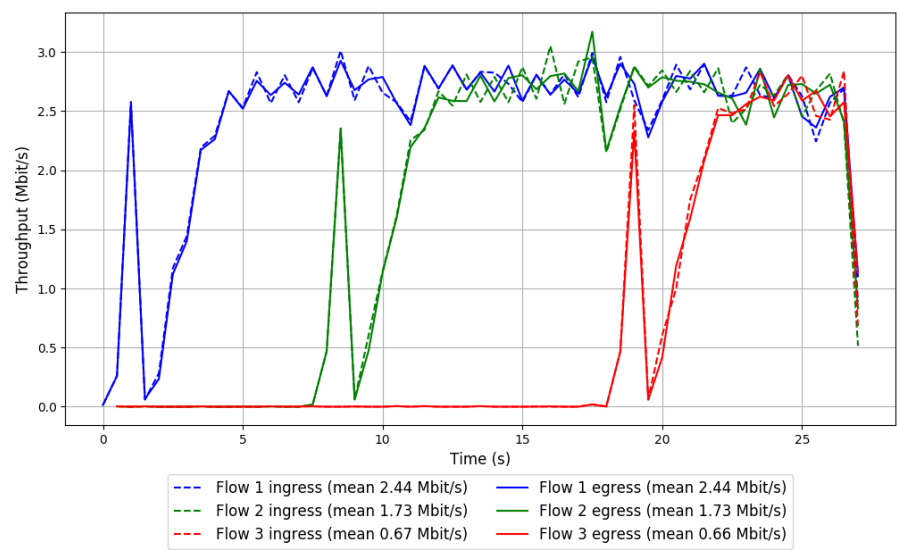
-- Flow 3:

Average throughput: 0.66 Mbit/s

95th percentile per-packet one-way delay: 53.836 ms

Loss rate: 0.61%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2017-11-21 21:52:35

End at: 2017-11-21 21:53:05

Below is generated by plot.py at 2017-11-22 01:02:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.22 Mbit/s

95th percentile per-packet one-way delay: 53.637 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.23 Mbit/s

95th percentile per-packet one-way delay: 53.324 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.42 Mbit/s

95th percentile per-packet one-way delay: 53.691 ms

Loss rate: 0.00%

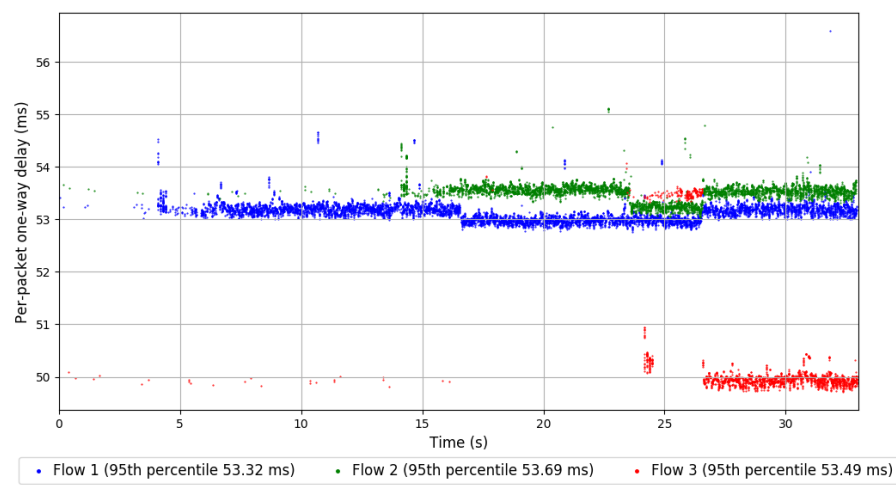
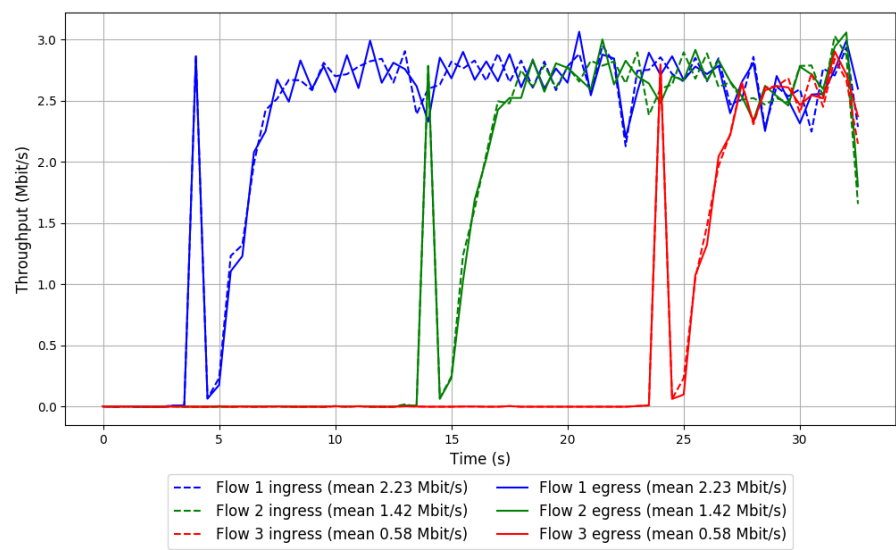
-- Flow 3:

Average throughput: 0.58 Mbit/s

95th percentile per-packet one-way delay: 53.486 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2017-11-21 22:04:37

End at: 2017-11-21 22:05:07

Below is generated by plot.py at 2017-11-22 01:02:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.58 Mbit/s

95th percentile per-packet one-way delay: 53.624 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 2.44 Mbit/s

95th percentile per-packet one-way delay: 53.622 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.51 Mbit/s

95th percentile per-packet one-way delay: 53.647 ms

Loss rate: 0.02%

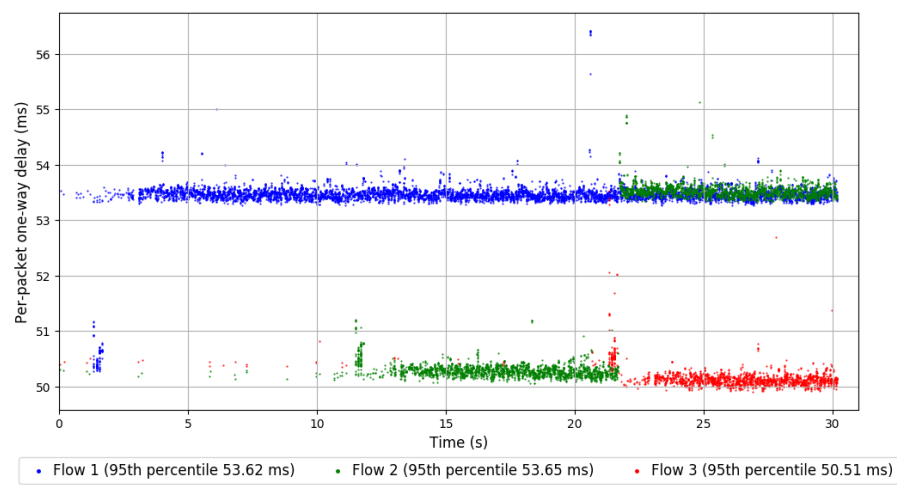
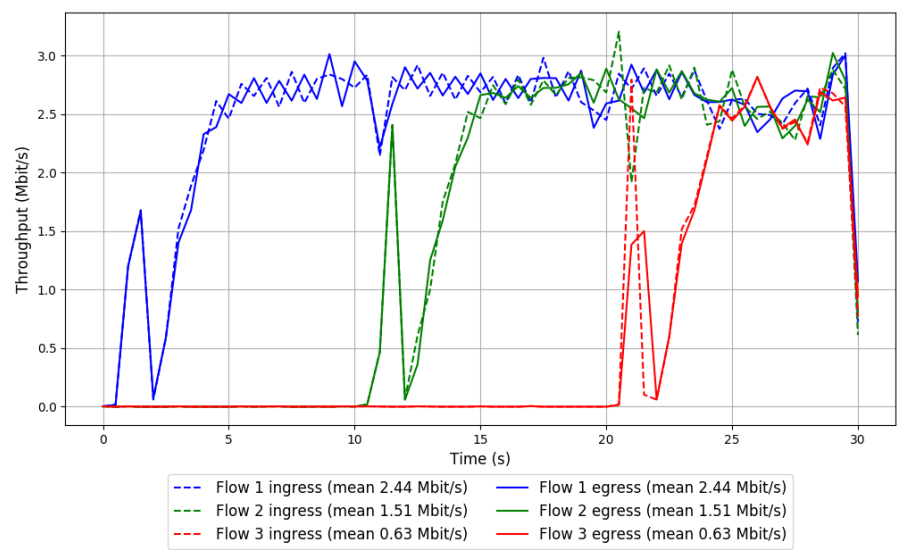
-- Flow 3:

Average throughput: 0.63 Mbit/s

95th percentile per-packet one-way delay: 50.506 ms

Loss rate: 0.15%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2017-11-21 22:16:41

End at: 2017-11-21 22:17:11

Below is generated by plot.py at 2017-11-22 01:02:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.20 Mbit/s

95th percentile per-packet one-way delay: 53.345 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 53.263 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.41 Mbit/s

95th percentile per-packet one-way delay: 53.413 ms

Loss rate: 0.00%

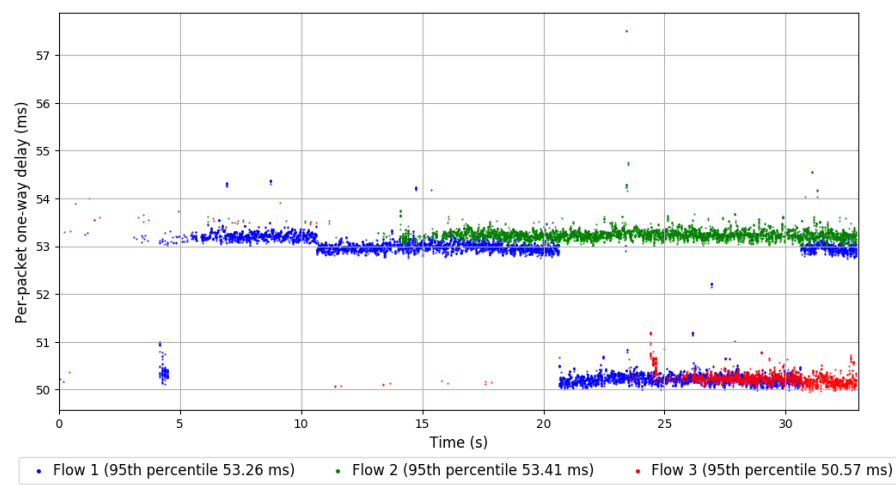
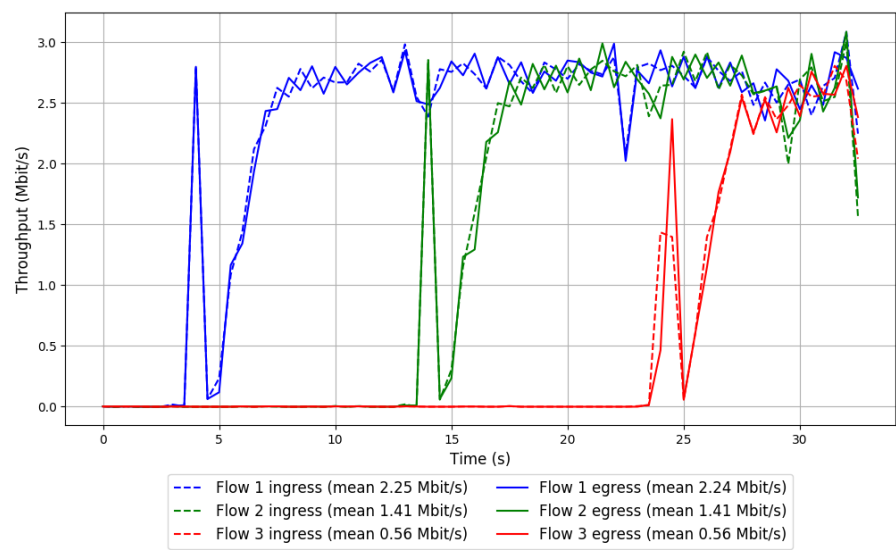
-- Flow 3:

Average throughput: 0.56 Mbit/s

95th percentile per-packet one-way delay: 50.568 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2017-11-21 22:28:57

End at: 2017-11-21 22:29:27

Below is generated by plot.py at 2017-11-22 01:02:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.21 Mbit/s

95th percentile per-packet one-way delay: 53.540 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 53.151 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.40 Mbit/s

95th percentile per-packet one-way delay: 53.436 ms

Loss rate: 0.00%

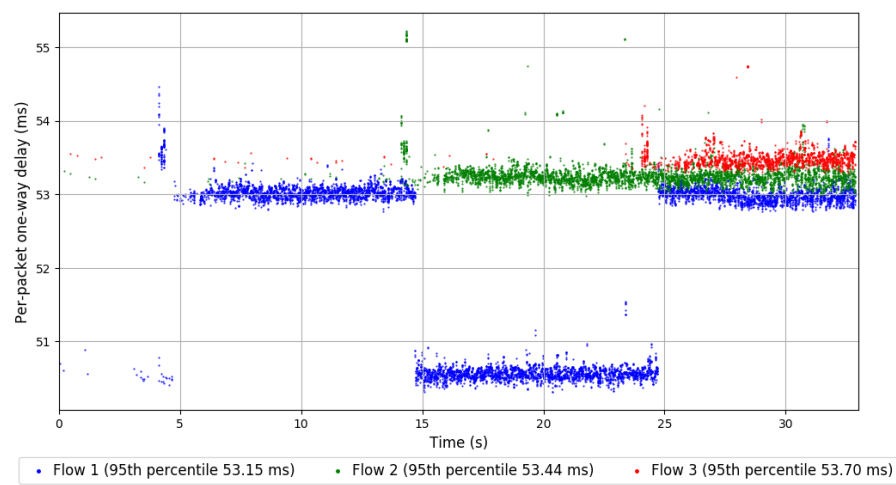
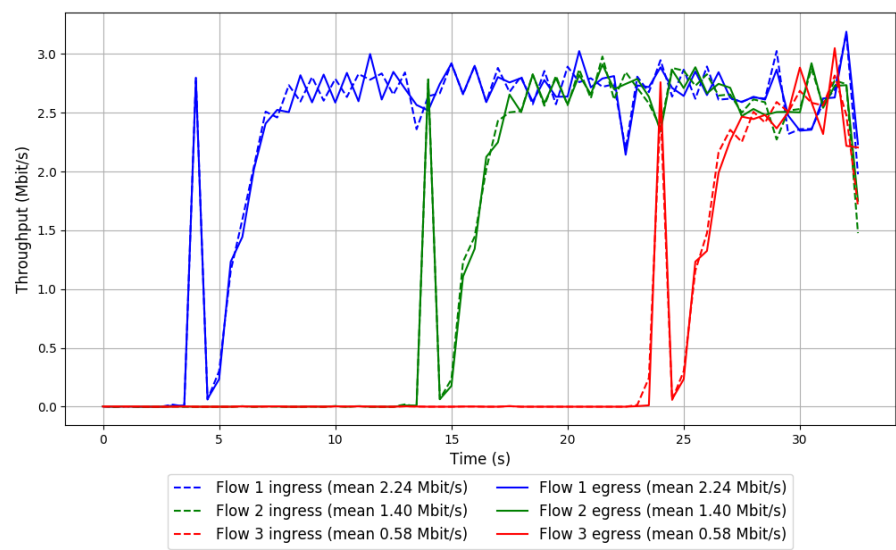
-- Flow 3:

Average throughput: 0.58 Mbit/s

95th percentile per-packet one-way delay: 53.695 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2017-11-21 22:41:06

End at: 2017-11-21 22:41:36

Below is generated by plot.py at 2017-11-22 01:02:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.22 Mbit/s

95th percentile per-packet one-way delay: 53.462 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.23 Mbit/s

95th percentile per-packet one-way delay: 53.475 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.41 Mbit/s

95th percentile per-packet one-way delay: 53.442 ms

Loss rate: 0.00%

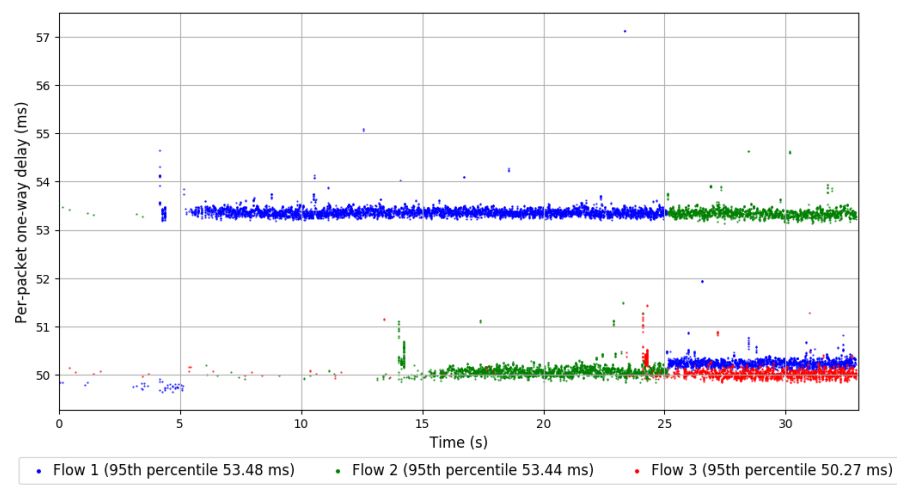
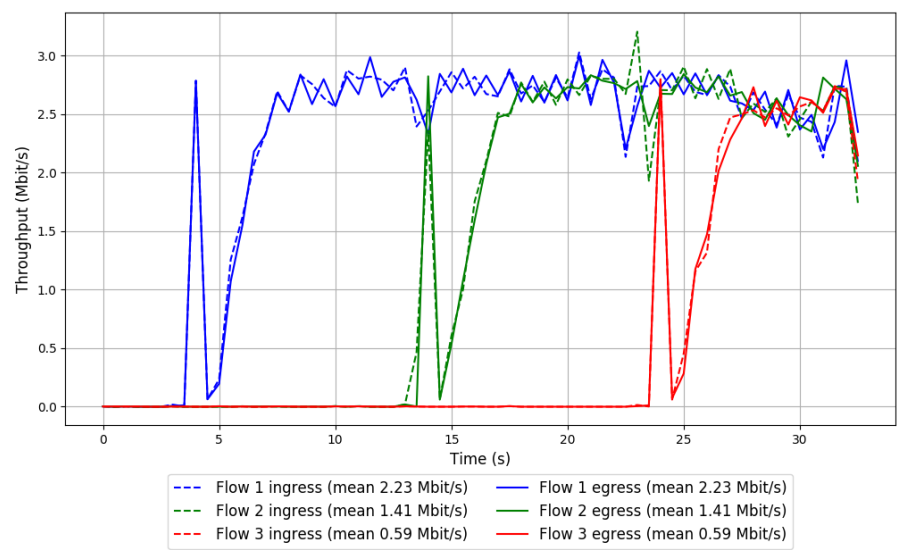
-- Flow 3:

Average throughput: 0.59 Mbit/s

95th percentile per-packet one-way delay: 50.272 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2017-11-21 22:53:13

End at: 2017-11-21 22:53:43

Below is generated by plot.py at 2017-11-22 01:02:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.25 Mbit/s

95th percentile per-packet one-way delay: 53.430 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.27 Mbit/s

95th percentile per-packet one-way delay: 53.106 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.41 Mbit/s

95th percentile per-packet one-way delay: 53.483 ms

Loss rate: 0.00%

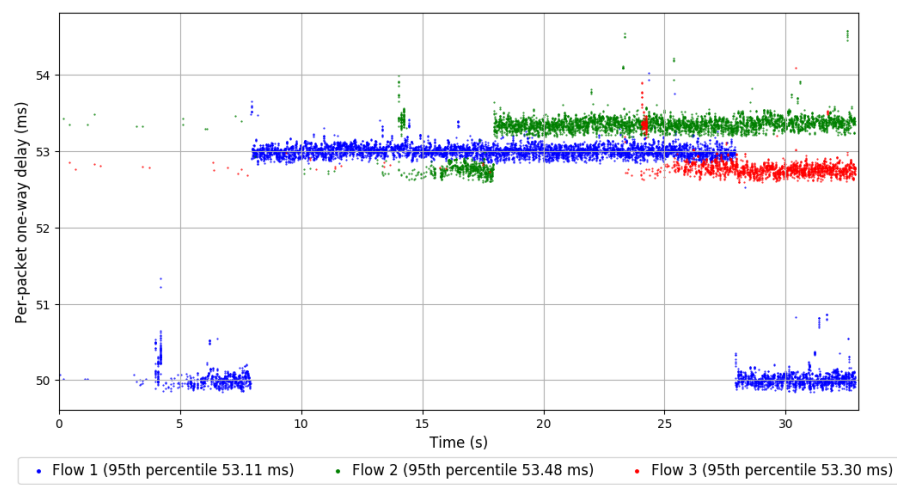
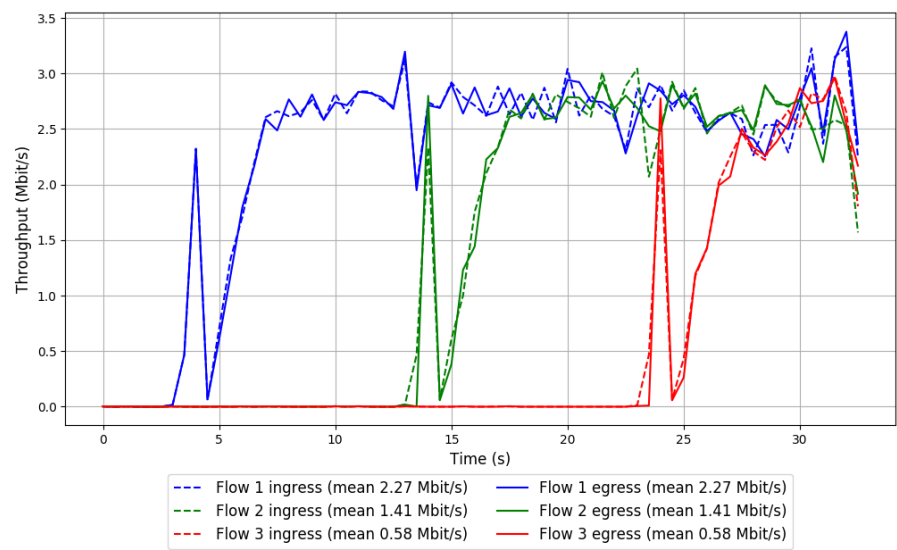
-- Flow 3:

Average throughput: 0.58 Mbit/s

95th percentile per-packet one-way delay: 53.302 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2017-11-21 23:04:58

End at: 2017-11-21 23:05:28

Below is generated by plot.py at 2017-11-22 01:02:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.28 Mbit/s

95th percentile per-packet one-way delay: 53.192 ms

Loss rate: 0.34%

-- Flow 1:

Average throughput: 1.75 Mbit/s

95th percentile per-packet one-way delay: 50.145 ms

Loss rate: 0.58%

-- Flow 2:

Average throughput: 1.87 Mbit/s

95th percentile per-packet one-way delay: 53.197 ms

Loss rate: 0.25%

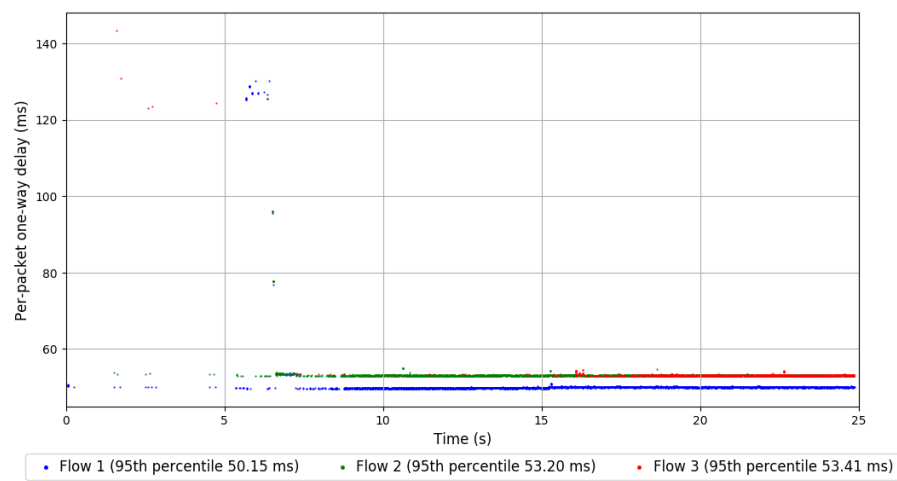
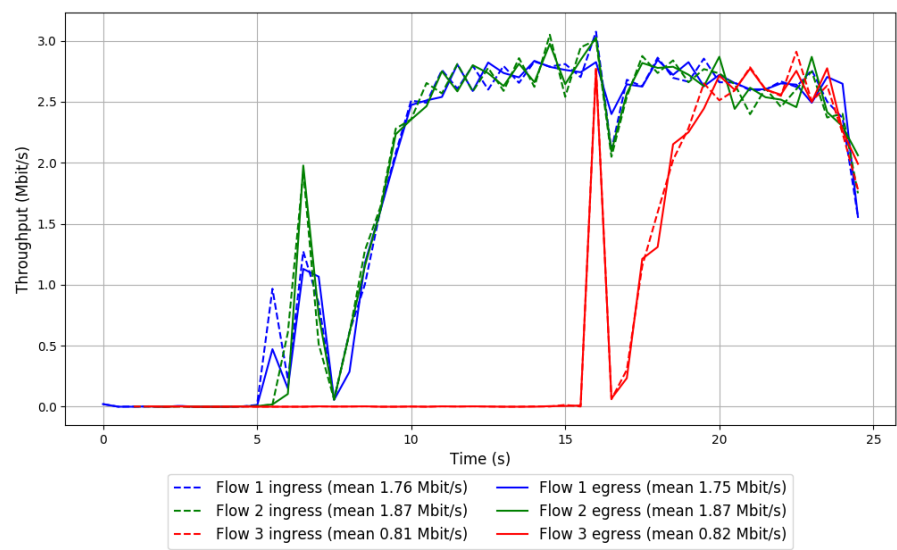
-- Flow 3:

Average throughput: 0.82 Mbit/s

95th percentile per-packet one-way delay: 53.405 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2017-11-21 23:17:05

End at: 2017-11-21 23:17:35

Below is generated by plot.py at 2017-11-22 01:02:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.24 Mbit/s

95th percentile per-packet one-way delay: 53.386 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 2.25 Mbit/s

95th percentile per-packet one-way delay: 50.455 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 1.40 Mbit/s

95th percentile per-packet one-way delay: 53.429 ms

Loss rate: 0.00%

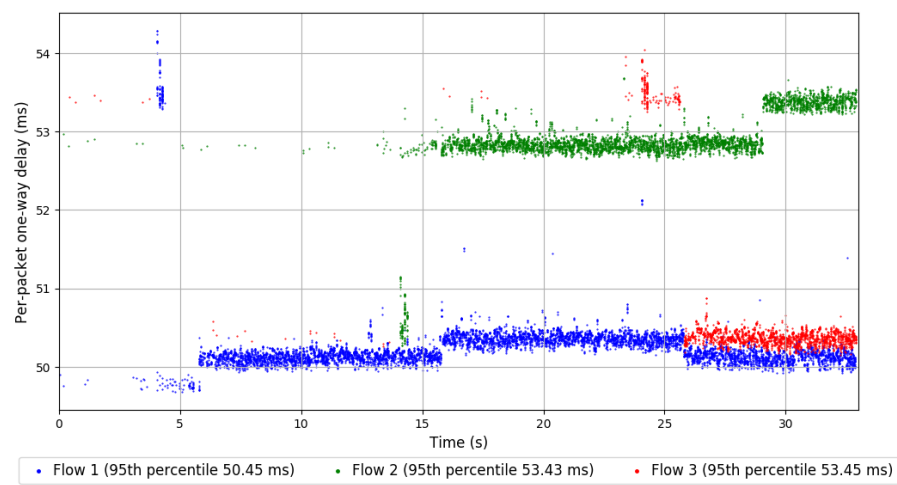
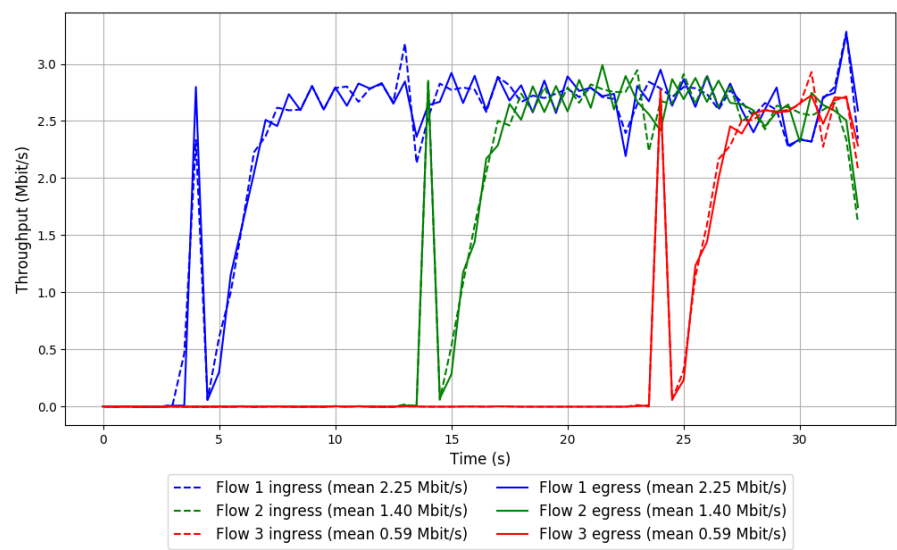
-- Flow 3:

Average throughput: 0.59 Mbit/s

95th percentile per-packet one-way delay: 53.446 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

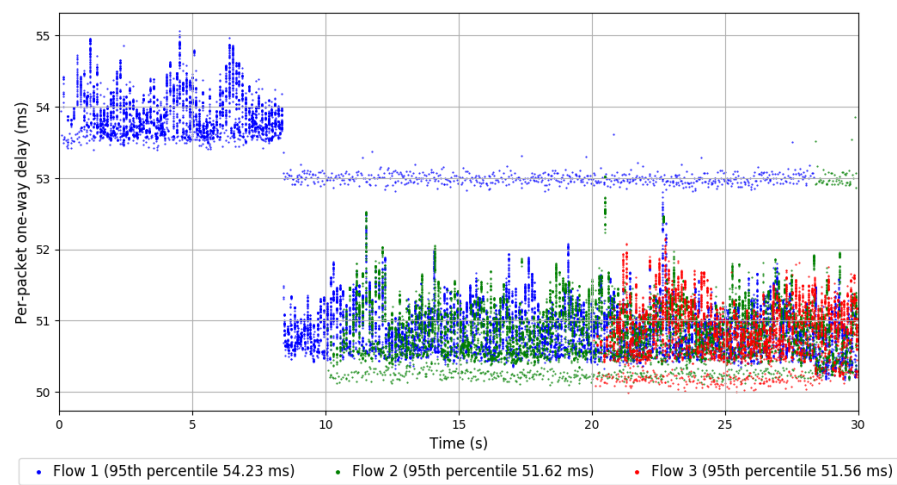
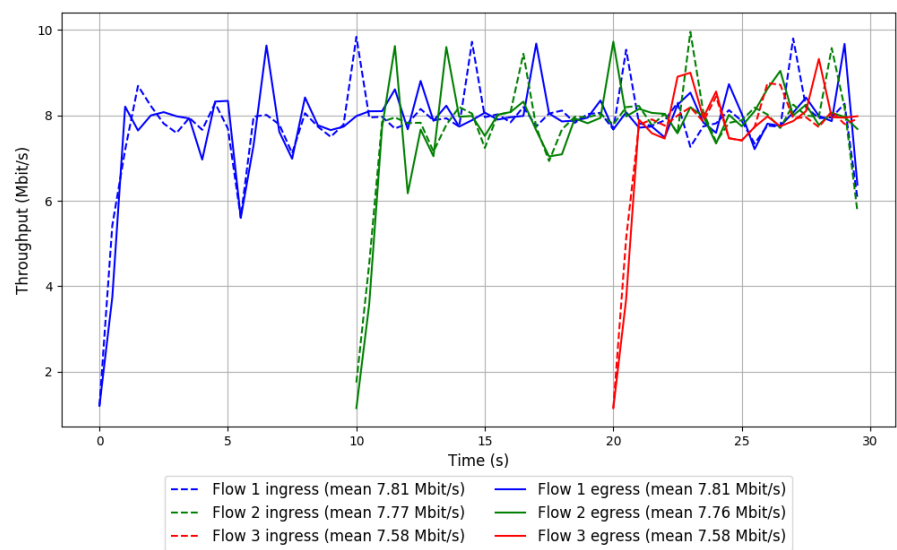


```
Run 1: Statistics of Sprout

Start at: 2017-11-21 21:35:00
End at: 2017-11-21 21:35:30

# Below is generated by plot.py at 2017-11-22 01:02:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 15.46 Mbit/s
95th percentile per-packet one-way delay: 53.990 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 7.81 Mbit/s
95th percentile per-packet one-way delay: 54.225 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 7.76 Mbit/s
95th percentile per-packet one-way delay: 51.620 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 7.58 Mbit/s
95th percentile per-packet one-way delay: 51.564 ms
Loss rate: 0.00%
```

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2017-11-21 21:46:52

End at: 2017-11-21 21:47:22

Below is generated by plot.py at 2017-11-22 01:02:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.52 Mbit/s

95th percentile per-packet one-way delay: 54.345 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 7.84 Mbit/s

95th percentile per-packet one-way delay: 54.374 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 7.83 Mbit/s

95th percentile per-packet one-way delay: 54.389 ms

Loss rate: 0.00%

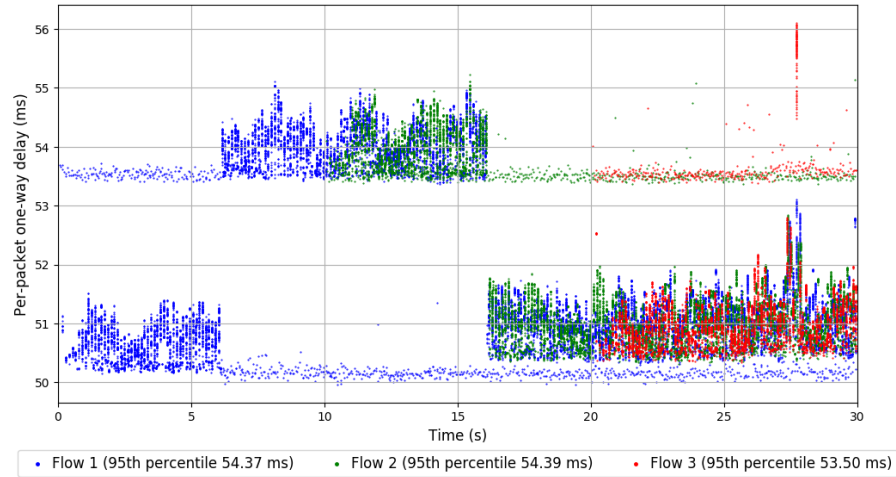
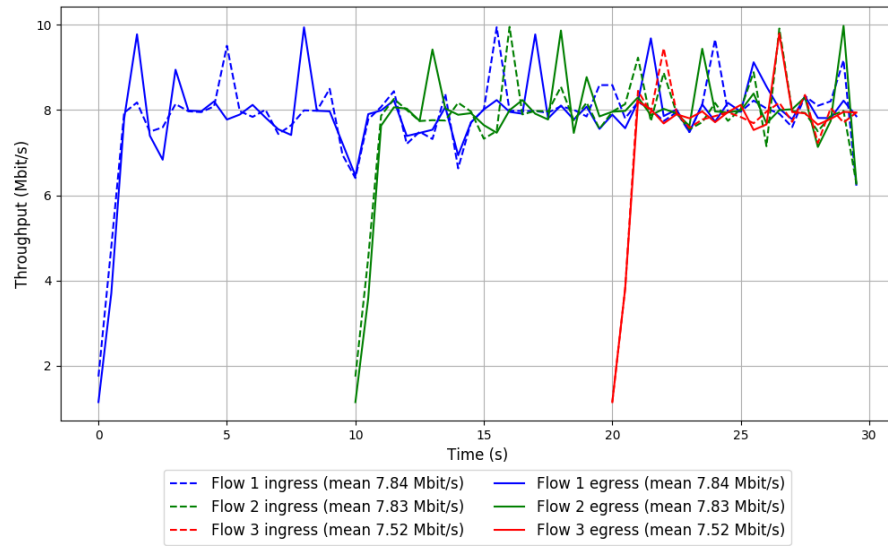
-- Flow 3:

Average throughput: 7.52 Mbit/s

95th percentile per-packet one-way delay: 53.503 ms

Loss rate: 0.00%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2017-11-21 21:59:06

End at: 2017-11-21 21:59:36

Below is generated by plot.py at 2017-11-22 01:02:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.33 Mbit/s

95th percentile per-packet one-way delay: 54.099 ms

Loss rate: 0.23%

-- Flow 1:

Average throughput: 7.68 Mbit/s

95th percentile per-packet one-way delay: 54.031 ms

Loss rate: 0.46%

-- Flow 2:

Average throughput: 7.84 Mbit/s

95th percentile per-packet one-way delay: 54.052 ms

Loss rate: 0.00%

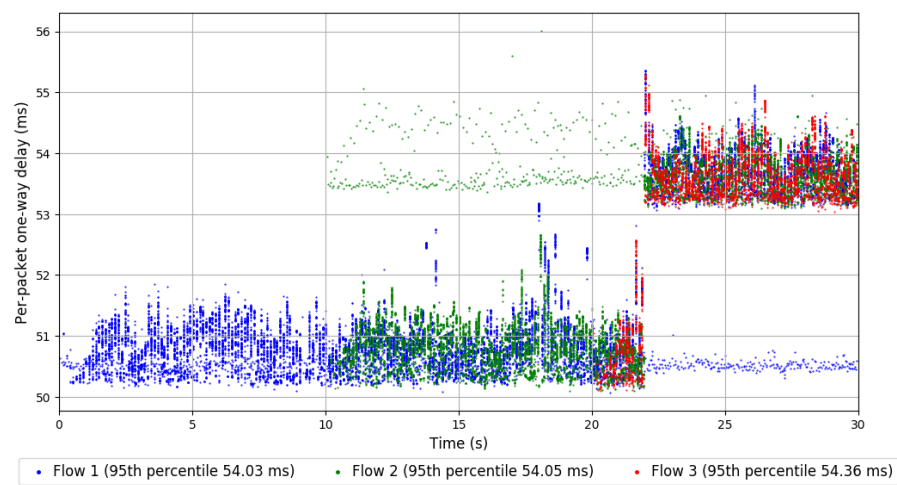
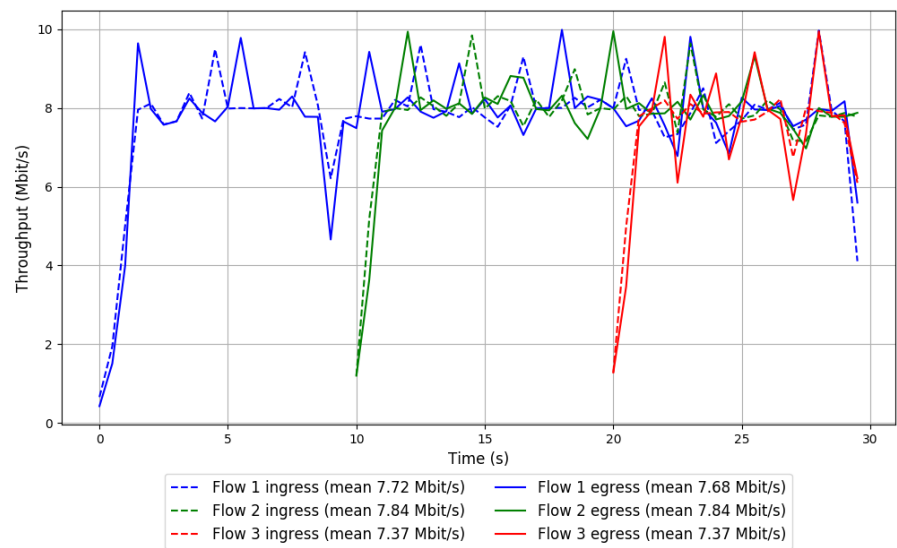
-- Flow 3:

Average throughput: 7.37 Mbit/s

95th percentile per-packet one-way delay: 54.360 ms

Loss rate: 0.00%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2017-11-21 22:11:06

End at: 2017-11-21 22:11:36

Below is generated by plot.py at 2017-11-22 01:02:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.38 Mbit/s

95th percentile per-packet one-way delay: 54.133 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 7.71 Mbit/s

95th percentile per-packet one-way delay: 54.119 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 7.81 Mbit/s

95th percentile per-packet one-way delay: 54.186 ms

Loss rate: 0.00%

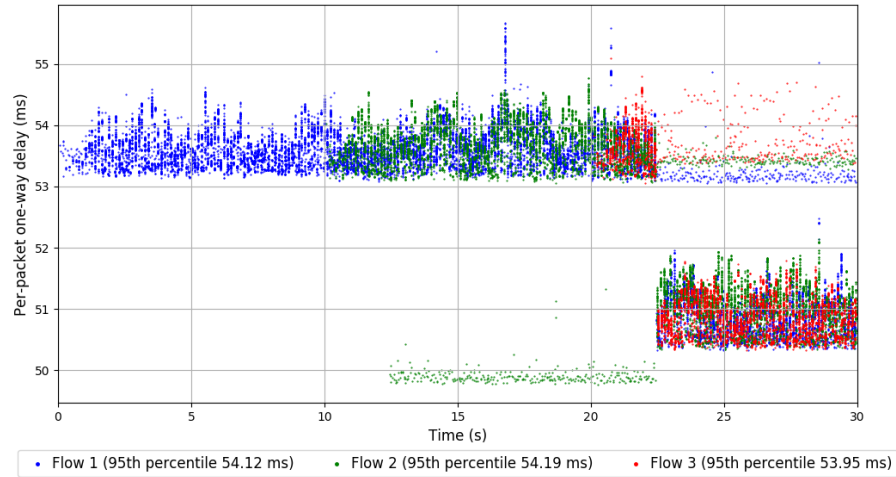
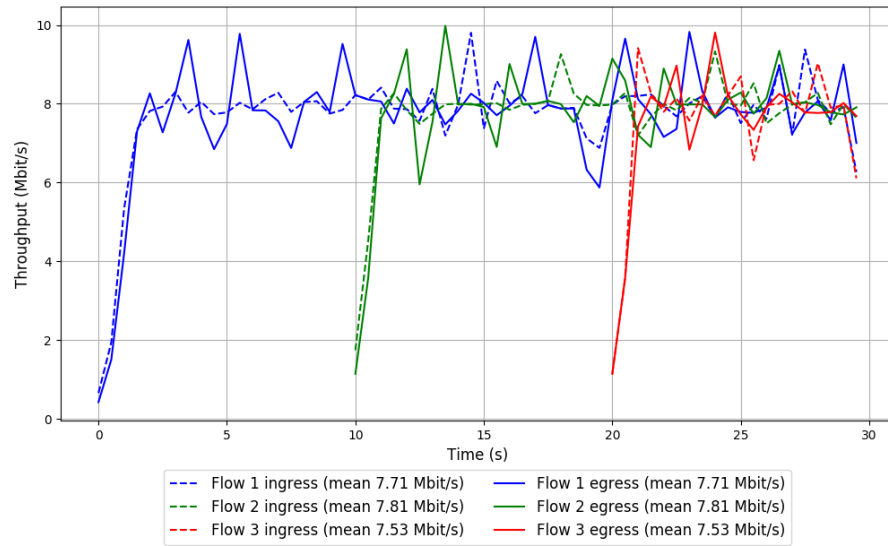
-- Flow 3:

Average throughput: 7.53 Mbit/s

95th percentile per-packet one-way delay: 53.952 ms

Loss rate: 0.00%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2017-11-21 22:23:14

End at: 2017-11-21 22:23:44

Below is generated by plot.py at 2017-11-22 01:02:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.01 Mbit/s

95th percentile per-packet one-way delay: 54.311 ms

Loss rate: 0.47%

-- Flow 1:

Average throughput: 7.72 Mbit/s

95th percentile per-packet one-way delay: 54.401 ms

Loss rate: 0.47%

-- Flow 2:

Average throughput: 7.62 Mbit/s

95th percentile per-packet one-way delay: 54.204 ms

Loss rate: 0.55%

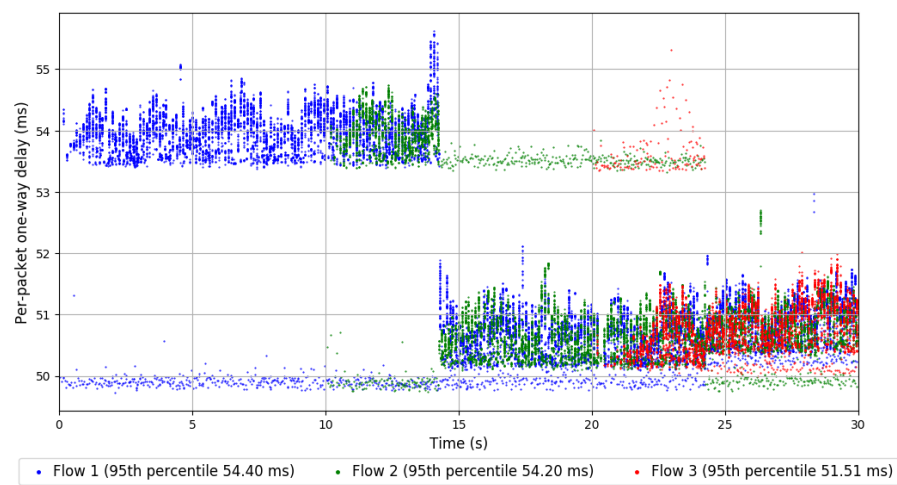
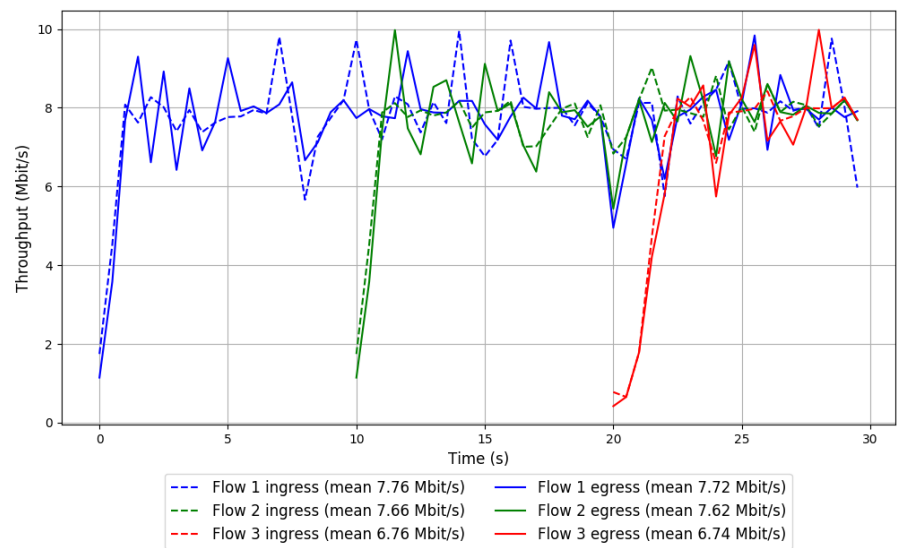
-- Flow 3:

Average throughput: 6.74 Mbit/s

95th percentile per-packet one-way delay: 51.511 ms

Loss rate: 0.27%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2017-11-21 22:35:22

End at: 2017-11-21 22:35:52

Below is generated by plot.py at 2017-11-22 01:02:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.53 Mbit/s

95th percentile per-packet one-way delay: 54.599 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 7.84 Mbit/s

95th percentile per-packet one-way delay: 54.592 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 7.82 Mbit/s

95th percentile per-packet one-way delay: 54.651 ms

Loss rate: 0.00%

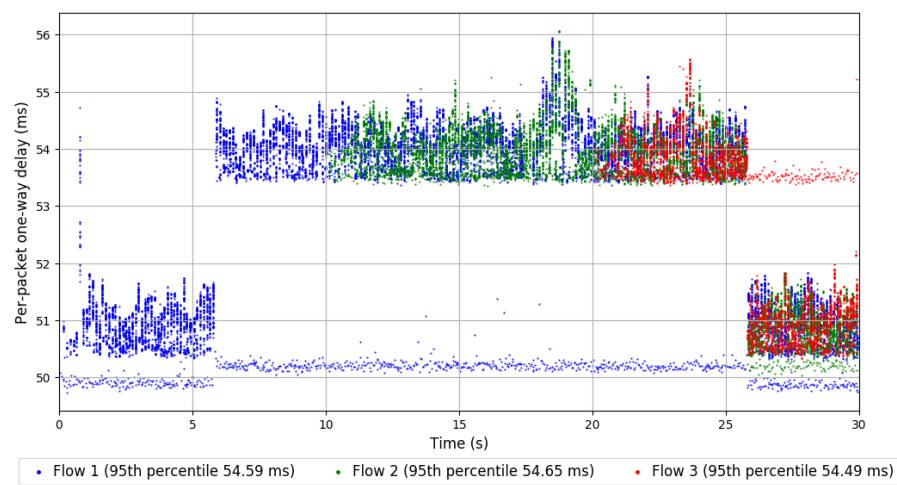
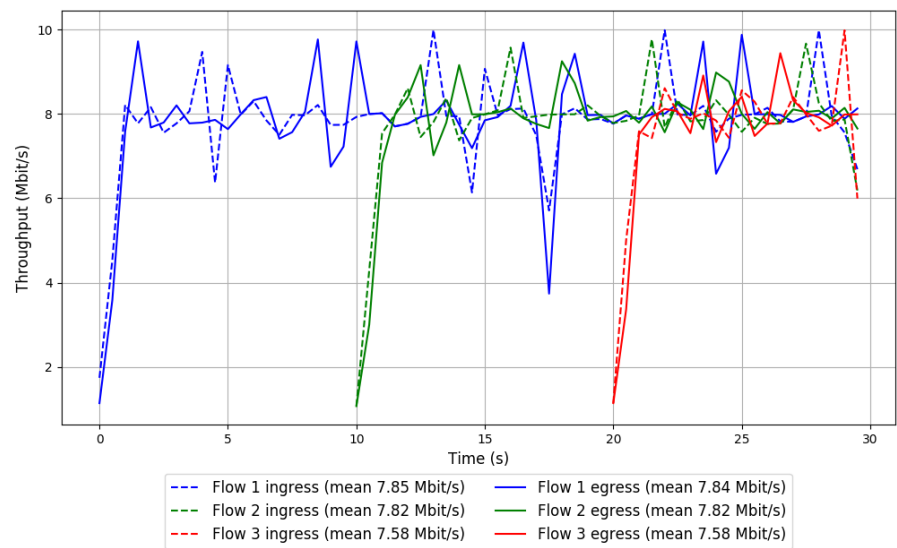
-- Flow 3:

Average throughput: 7.58 Mbit/s

95th percentile per-packet one-way delay: 54.487 ms

Loss rate: 0.02%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2017-11-21 22:47:35

End at: 2017-11-21 22:48:05

Below is generated by plot.py at 2017-11-22 01:02:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.51 Mbit/s

95th percentile per-packet one-way delay: 53.367 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 7.78 Mbit/s

95th percentile per-packet one-way delay: 53.659 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 7.90 Mbit/s

95th percentile per-packet one-way delay: 51.367 ms

Loss rate: 0.00%

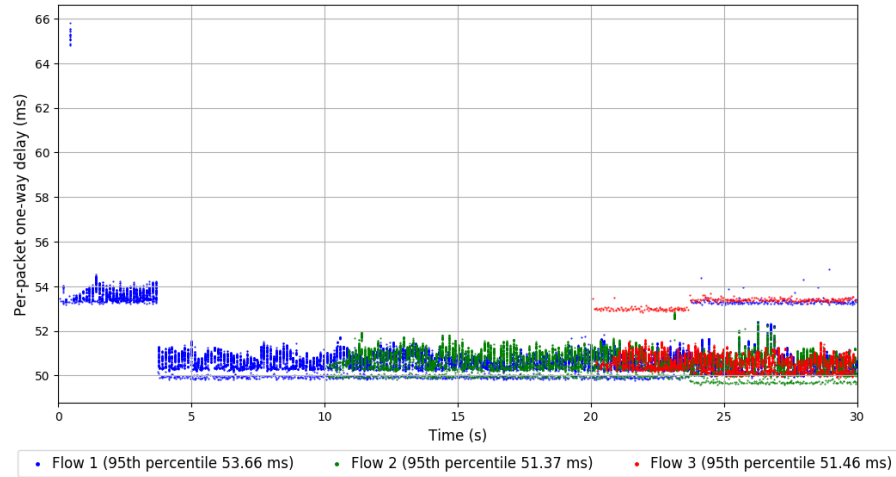
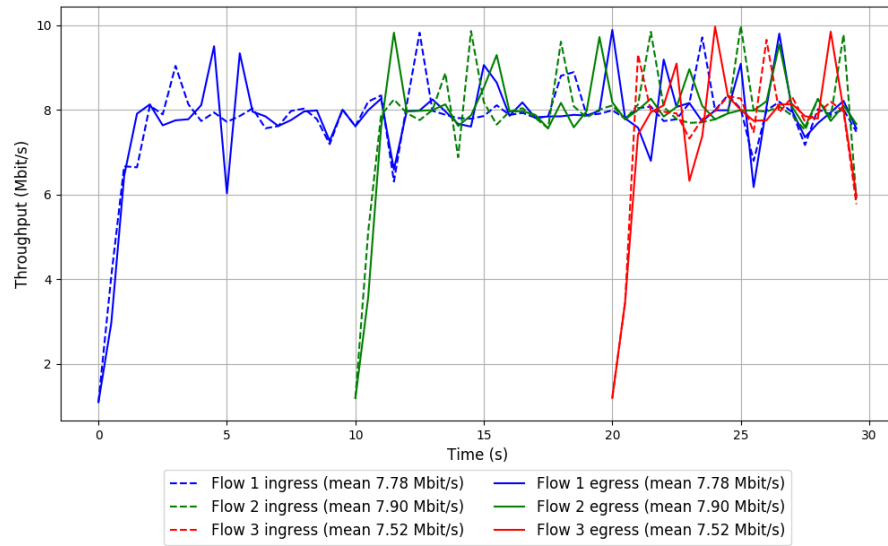
-- Flow 3:

Average throughput: 7.52 Mbit/s

95th percentile per-packet one-way delay: 51.464 ms

Loss rate: 0.00%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2017-11-21 22:59:43

End at: 2017-11-21 23:00:13

Below is generated by plot.py at 2017-11-22 01:02:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.36 Mbit/s

95th percentile per-packet one-way delay: 51.565 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 7.86 Mbit/s

95th percentile per-packet one-way delay: 51.575 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 7.72 Mbit/s

95th percentile per-packet one-way delay: 51.486 ms

Loss rate: 0.00%

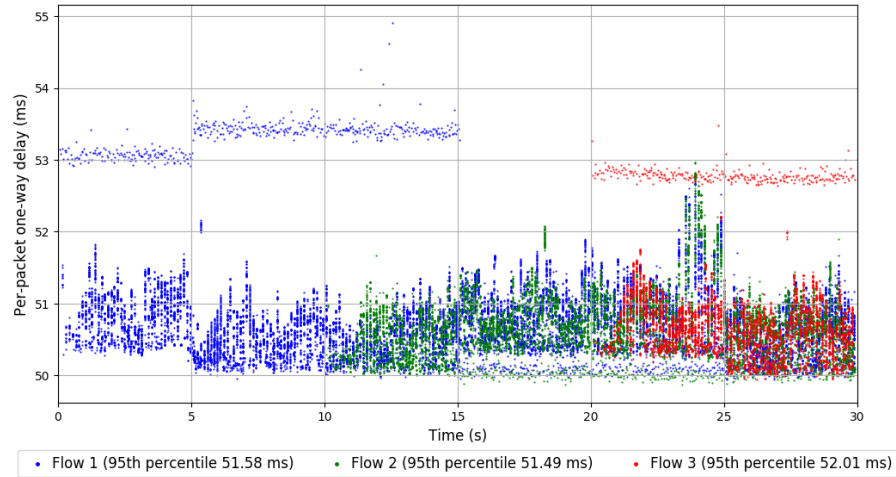
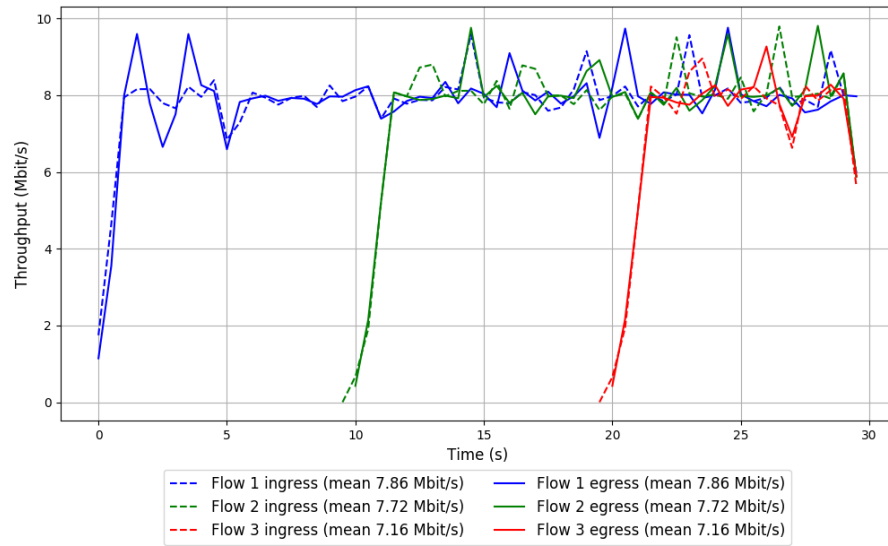
-- Flow 3:

Average throughput: 7.16 Mbit/s

95th percentile per-packet one-way delay: 52.006 ms

Loss rate: 0.00%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2017-11-21 23:11:29

End at: 2017-11-21 23:11:59

Below is generated by plot.py at 2017-11-22 01:02:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.46 Mbit/s

95th percentile per-packet one-way delay: 51.637 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 7.96 Mbit/s

95th percentile per-packet one-way delay: 51.734 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 7.85 Mbit/s

95th percentile per-packet one-way delay: 51.462 ms

Loss rate: 0.00%

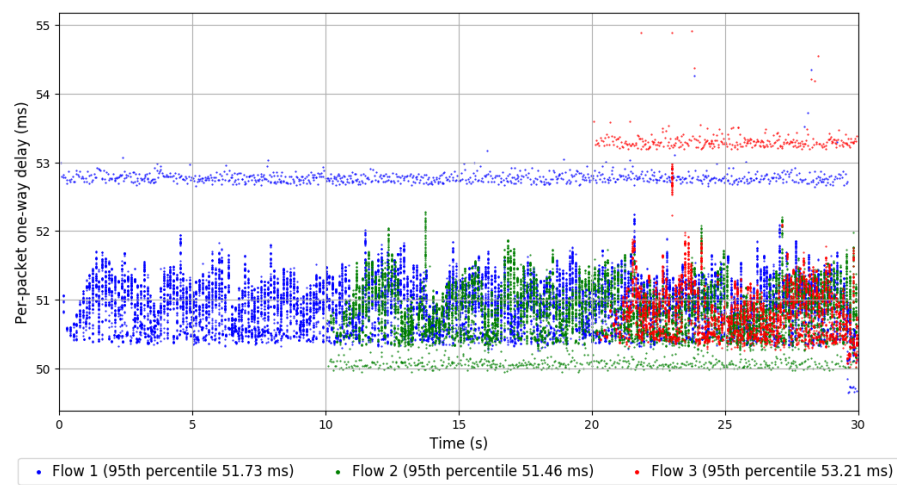
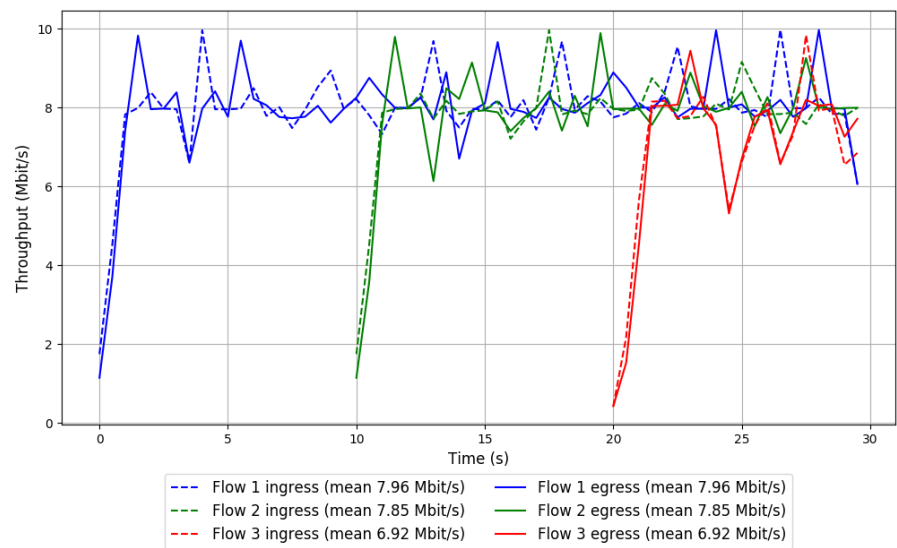
-- Flow 3:

Average throughput: 6.92 Mbit/s

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

Loss rate: 0.00%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2017-11-21 23:23:38

End at: 2017-11-21 23:24:08

Below is generated by plot.py at 2017-11-22 01:02:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.31 Mbit/s

95th percentile per-packet one-way delay: 53.986 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 7.63 Mbit/s

95th percentile per-packet one-way delay: 53.738 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 7.86 Mbit/s

95th percentile per-packet one-way delay: 54.055 ms

Loss rate: 0.00%

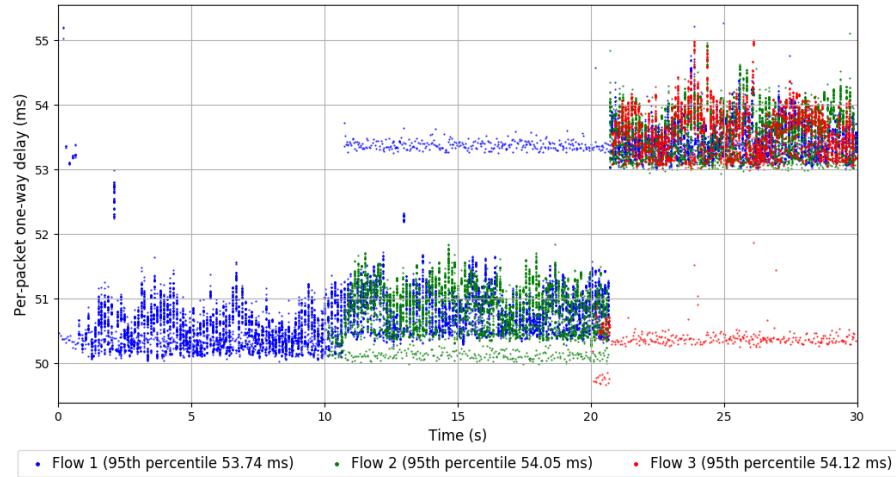
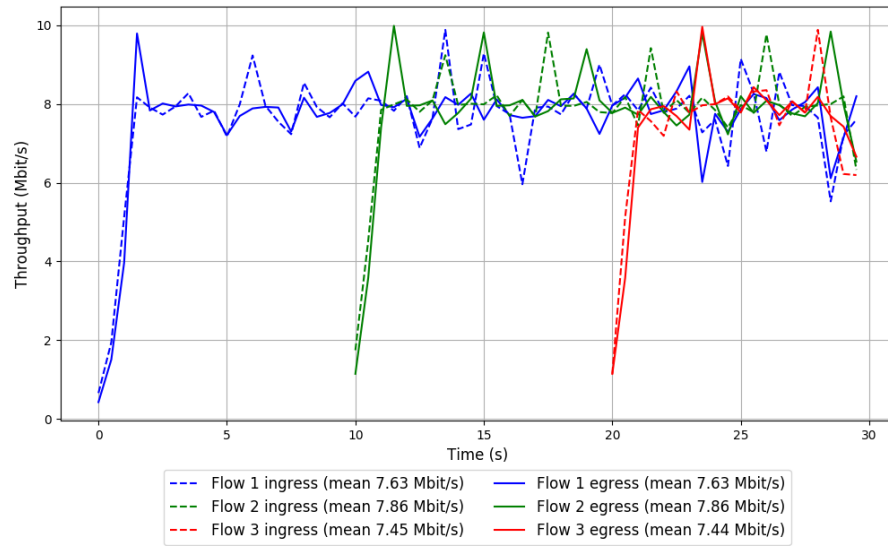
-- Flow 3:

Average throughput: 7.44 Mbit/s

95th percentile per-packet one-way delay: 54.120 ms

Loss rate: 0.00%

Run 10: Report of Sprout — Data Link

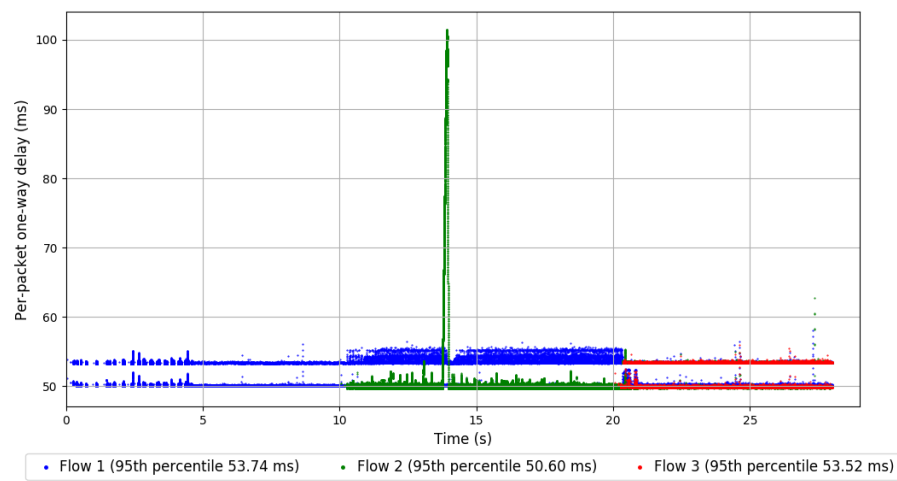
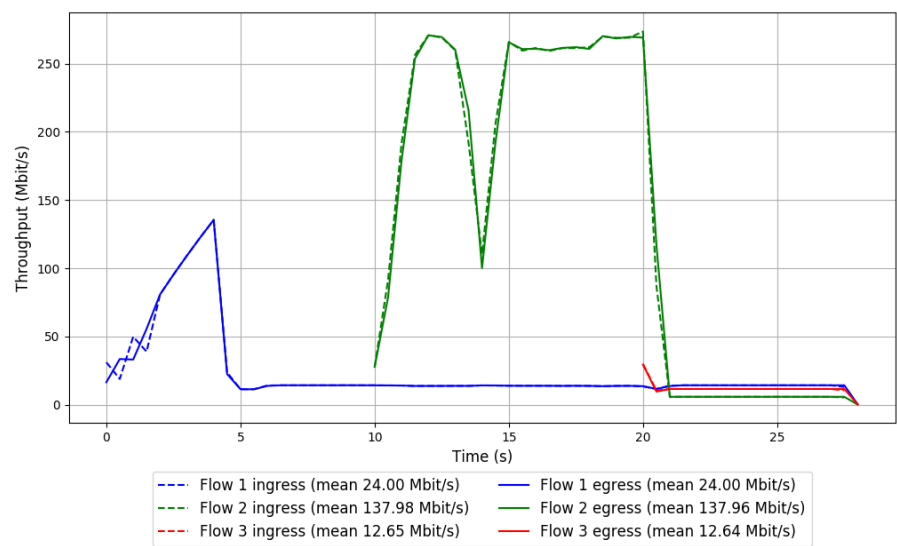


```
Run 1: Statistics of TaoVA-100x

Start at: 2017-11-21 21:37:26
End at: 2017-11-21 21:37:56

# Below is generated by plot.py at 2017-11-22 01:02:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 116.16 Mbit/s
95th percentile per-packet one-way delay: 53.464 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 24.00 Mbit/s
95th percentile per-packet one-way delay: 53.736 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 137.96 Mbit/s
95th percentile per-packet one-way delay: 50.602 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 12.64 Mbit/s
95th percentile per-packet one-way delay: 53.521 ms
Loss rate: 0.00%
```


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

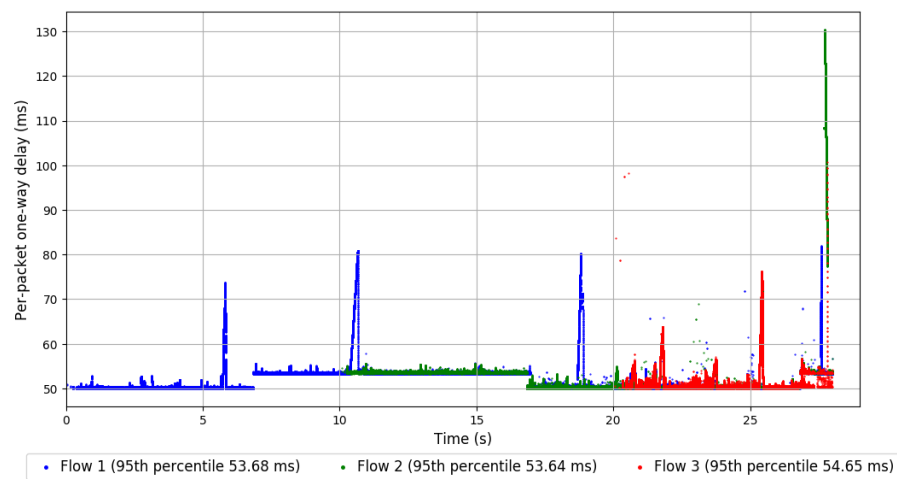
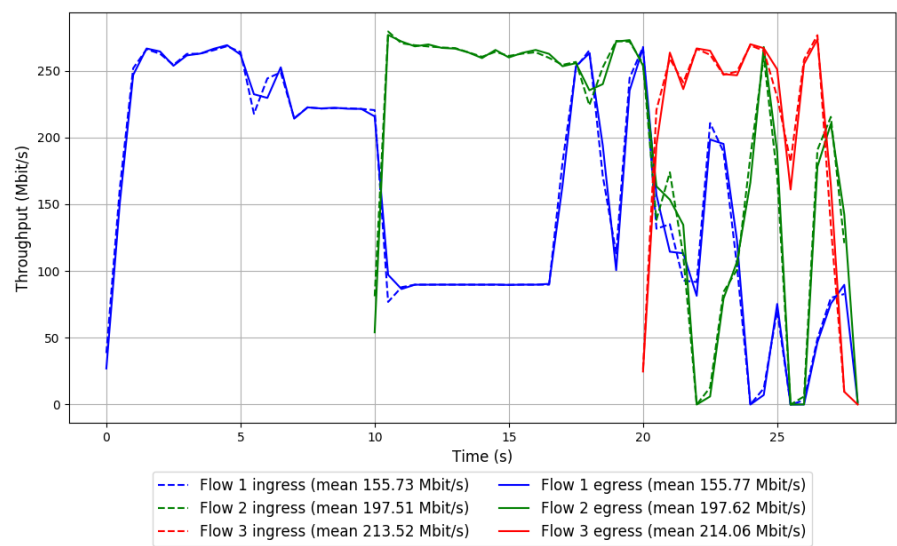


```
Run 2: Statistics of TaoVA-100x

Start at: 2017-11-21 21:49:19
End at: 2017-11-21 21:49:50

# Below is generated by plot.py at 2017-11-22 01:05:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 343.32 Mbit/s
95th percentile per-packet one-way delay: 53.696 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 155.77 Mbit/s
95th percentile per-packet one-way delay: 53.682 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 197.62 Mbit/s
95th percentile per-packet one-way delay: 53.644 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 214.06 Mbit/s
95th percentile per-packet one-way delay: 54.645 ms
Loss rate: 0.00%
```

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

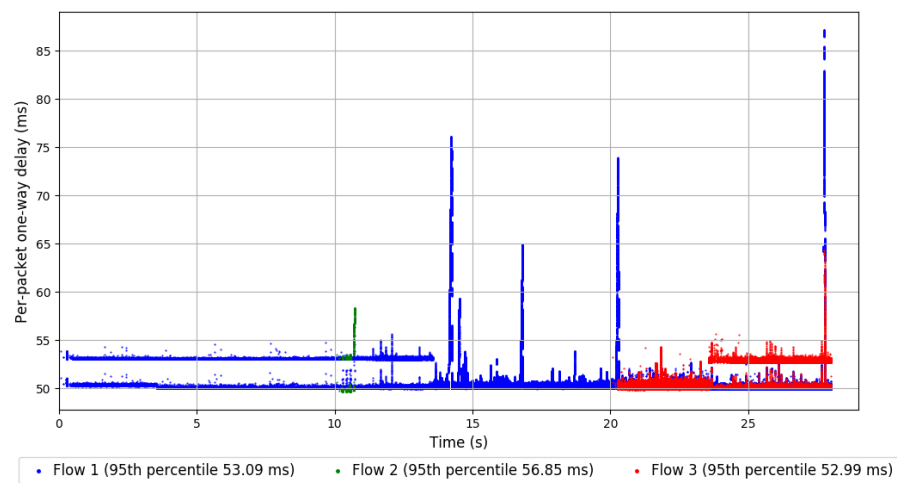
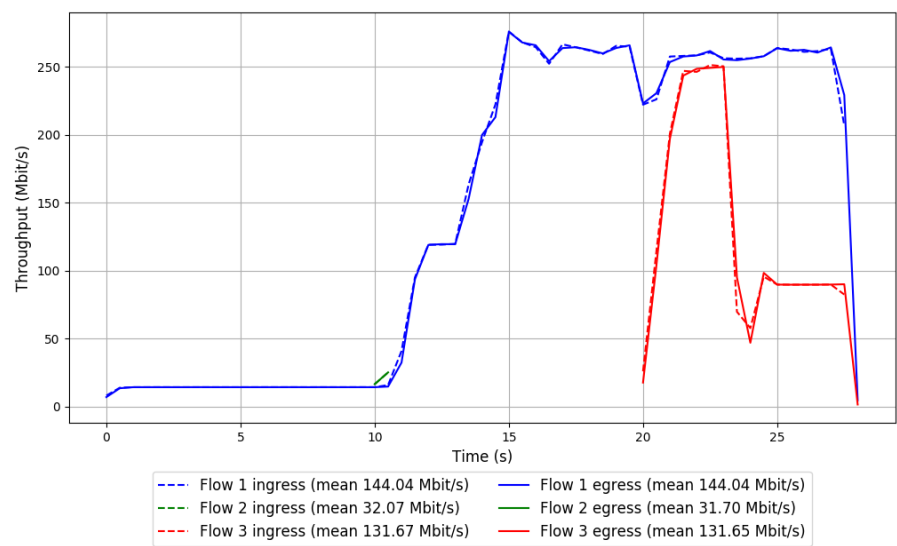


```
Run 3: Statistics of TaoVA-100x

Start at: 2017-11-21 22:01:33
End at: 2017-11-21 22:02:03

# Below is generated by plot.py at 2017-11-22 01:05:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 182.16 Mbit/s
95th percentile per-packet one-way delay: 53.081 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 144.04 Mbit/s
95th percentile per-packet one-way delay: 53.094 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 31.70 Mbit/s
95th percentile per-packet one-way delay: 56.851 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 131.65 Mbit/s
95th percentile per-packet one-way delay: 52.991 ms
Loss rate: 0.00%
```

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



Run 4: Statistics of TaoVA-100x

Start at: 2017-11-21 22:13:35

End at: 2017-11-21 22:14:05

Below is generated by plot.py at 2017-11-22 01:05:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 188.75 Mbit/s

95th percentile per-packet one-way delay: 53.225 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 84.21 Mbit/s

95th percentile per-packet one-way delay: 53.193 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 64.79 Mbit/s

95th percentile per-packet one-way delay: 53.201 ms

Loss rate: 0.00%

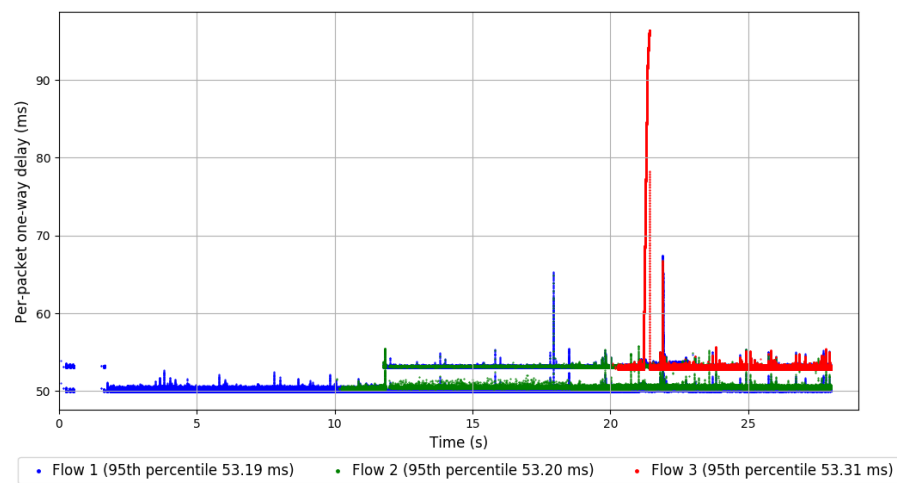
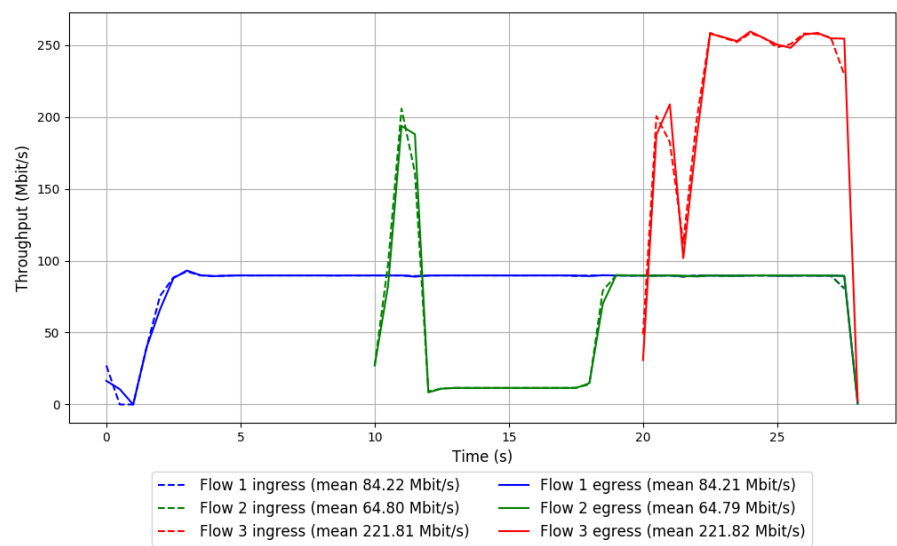
-- Flow 3:

Average throughput: 221.82 Mbit/s

95th percentile per-packet one-way delay: 53.306 ms

Loss rate: 0.00%

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



Run 5: Statistics of TaoVA-100x

Start at: 2017-11-21 22:25:42

End at: 2017-11-21 22:26:12

Below is generated by plot.py at 2017-11-22 01:05:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 302.01 Mbit/s

95th percentile per-packet one-way delay: 51.081 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 142.63 Mbit/s

95th percentile per-packet one-way delay: 53.071 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 242.39 Mbit/s

95th percentile per-packet one-way delay: 50.496 ms

Loss rate: 0.01%

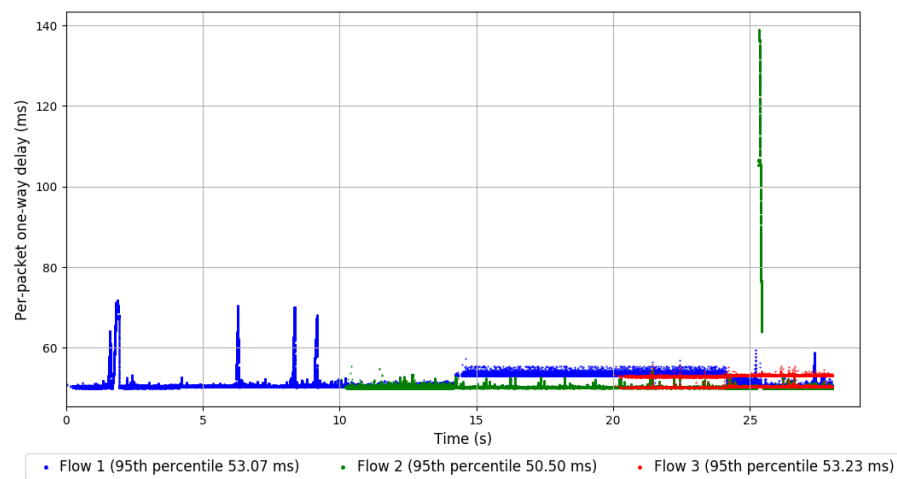
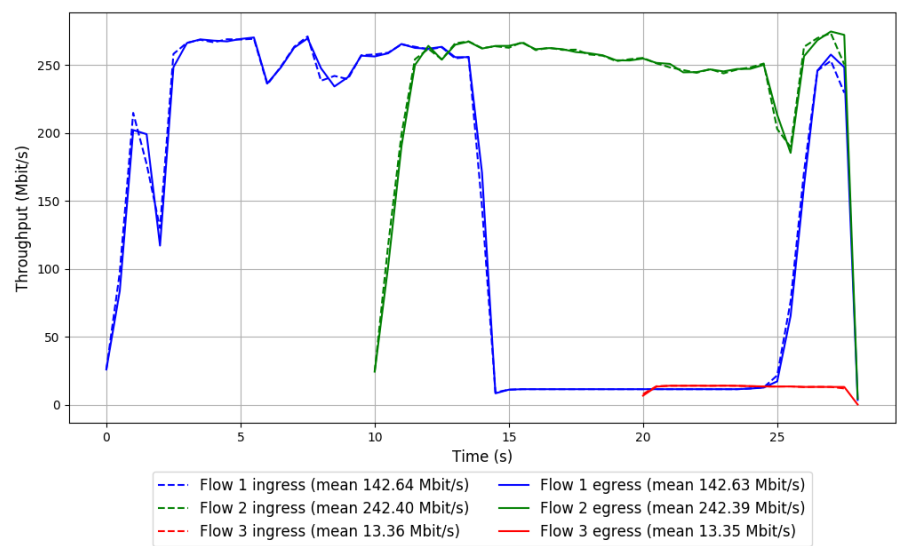
-- Flow 3:

Average throughput: 13.35 Mbit/s

95th percentile per-packet one-way delay: 53.232 ms

Loss rate: 0.00%

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



Run 6: Statistics of TaoVA-100x

Start at: 2017-11-21 22:37:50

End at: 2017-11-21 22:38:20

Below is generated by plot.py at 2017-11-22 01:07:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 381.94 Mbit/s

95th percentile per-packet one-way delay: 53.962 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 214.62 Mbit/s

95th percentile per-packet one-way delay: 53.764 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 220.75 Mbit/s

95th percentile per-packet one-way delay: 54.404 ms

Loss rate: 0.00%

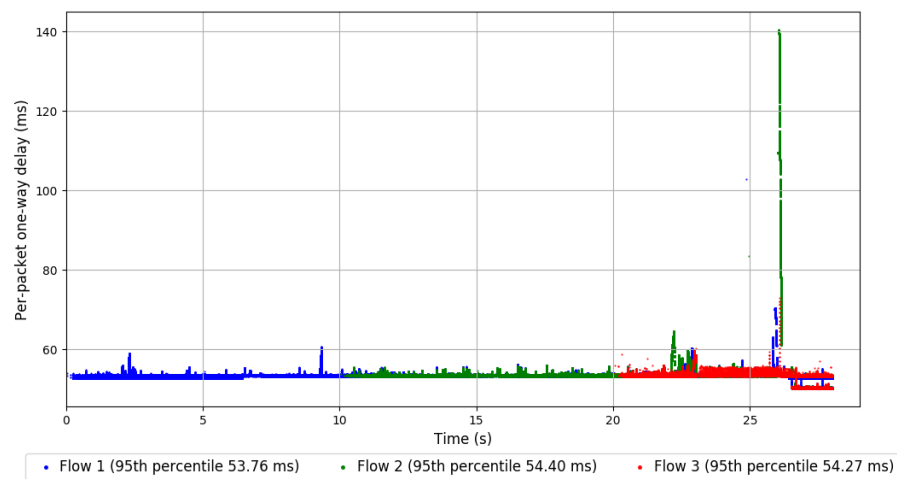
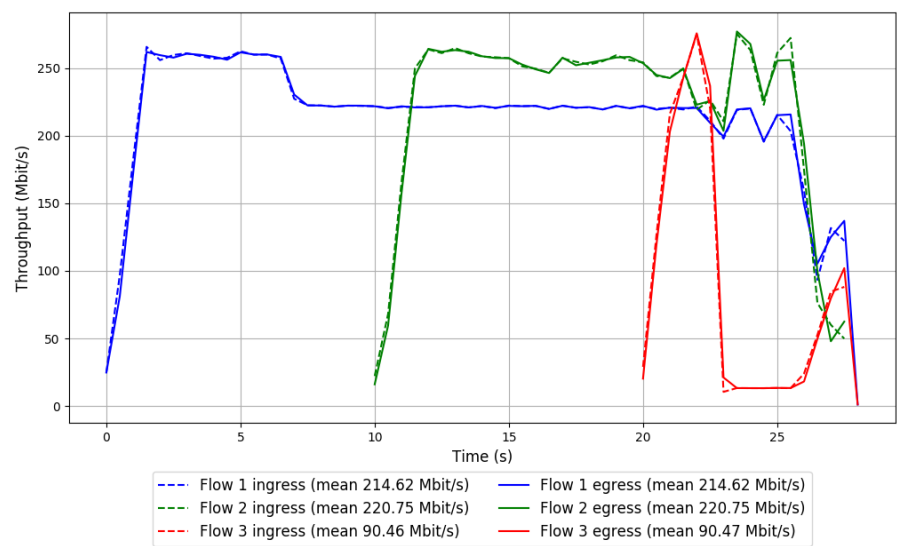
-- Flow 3:

Average throughput: 90.47 Mbit/s

95th percentile per-packet one-way delay: 54.269 ms

Loss rate: 0.00%

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

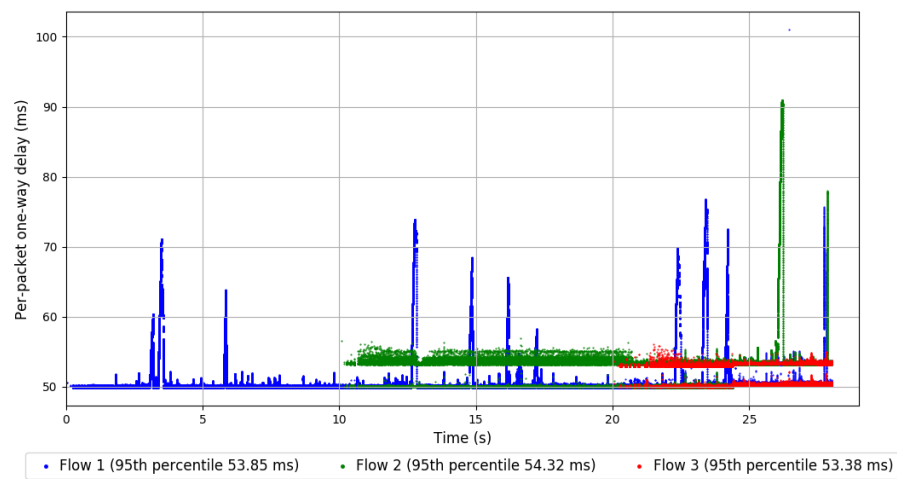
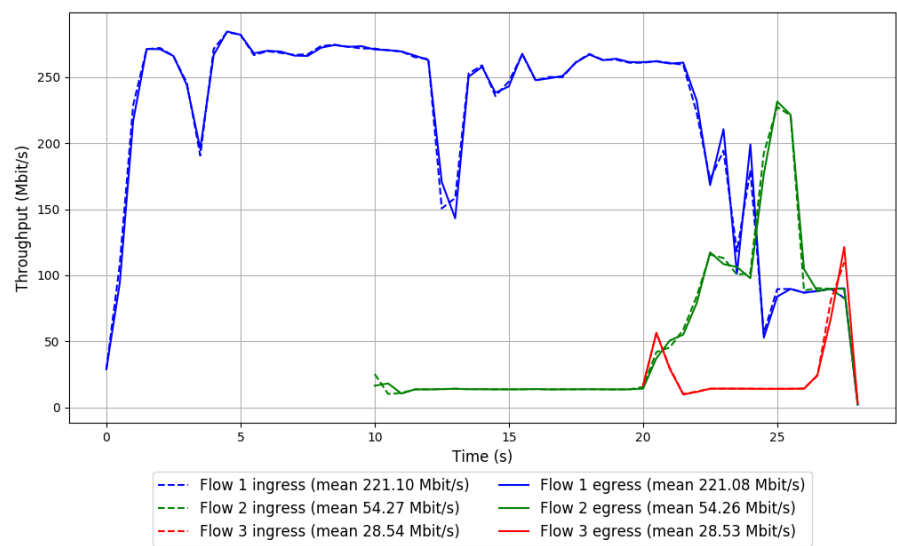


```
Run 7: Statistics of TaoVA-100x

Start at: 2017-11-21 22:50:02
End at: 2017-11-21 22:50:32

# Below is generated by plot.py at 2017-11-22 01:07:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 264.02 Mbit/s
95th percentile per-packet one-way delay: 53.966 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 221.08 Mbit/s
95th percentile per-packet one-way delay: 53.851 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 54.26 Mbit/s
95th percentile per-packet one-way delay: 54.320 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 28.53 Mbit/s
95th percentile per-packet one-way delay: 53.380 ms
Loss rate: 0.00%
```

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



Run 8: Statistics of TaoVA-100x

Start at: 2017-11-21 23:02:03

End at: 2017-11-21 23:02:33

Below is generated by plot.py at 2017-11-22 01:07:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.87 Mbit/s

95th percentile per-packet one-way delay: 53.451 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 57.91 Mbit/s

95th percentile per-packet one-way delay: 53.482 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 14.73 Mbit/s

95th percentile per-packet one-way delay: 53.355 ms

Loss rate: 0.00%

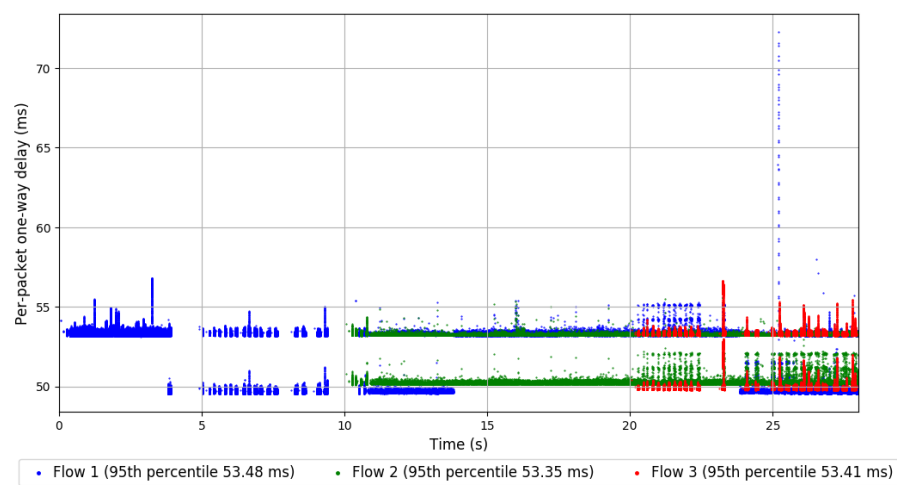
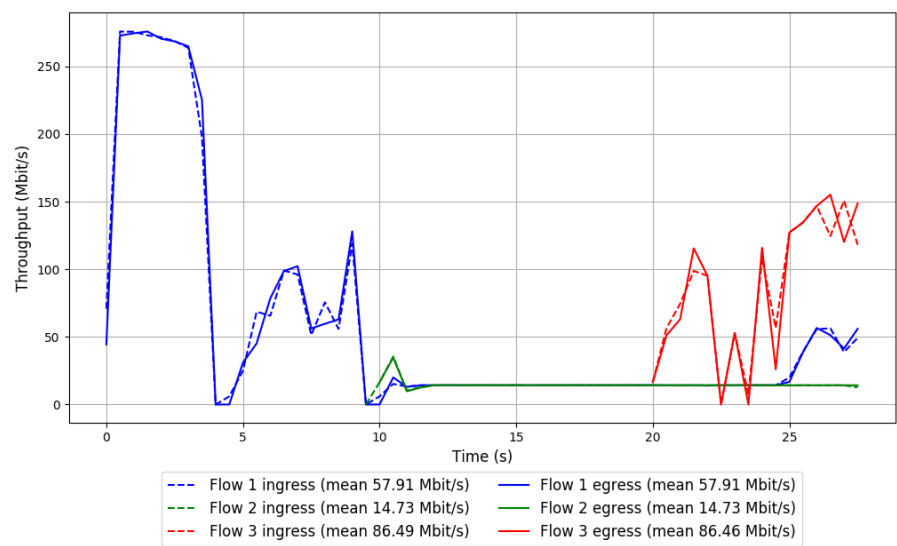
-- Flow 3:

Average throughput: 86.46 Mbit/s

95th percentile per-packet one-way delay: 53.408 ms

Loss rate: 0.00%

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

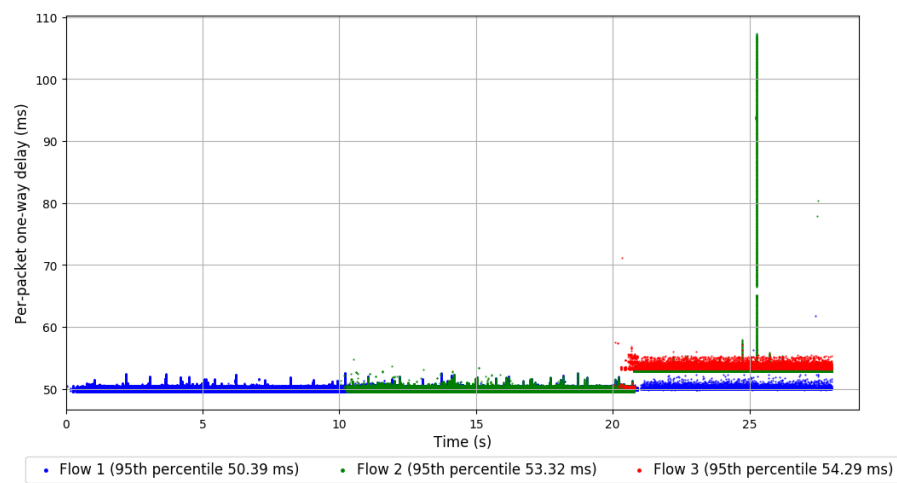
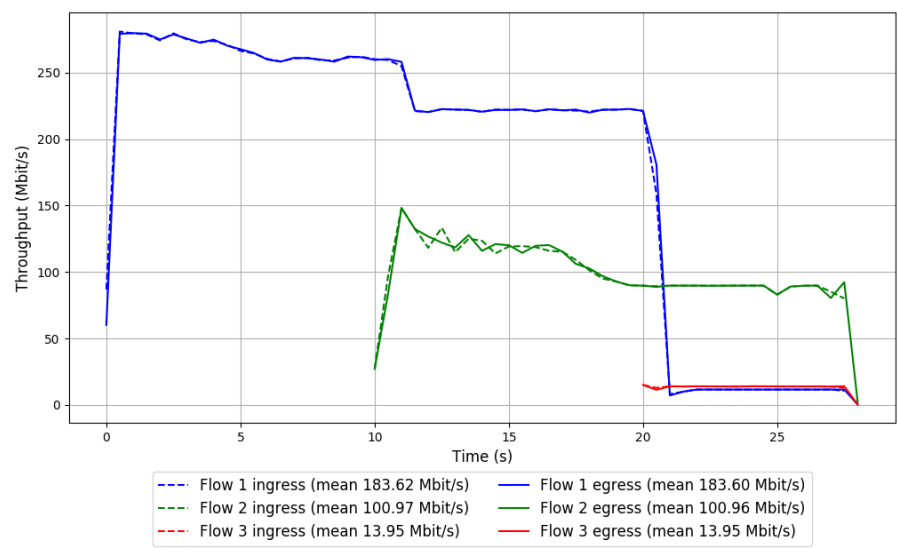


```
Run 9: Statistics of TaoVA-100x

Start at: 2017-11-21 23:13:56
End at: 2017-11-21 23:14:26

# Below is generated by plot.py at 2017-11-22 01:08:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 252.37 Mbit/s
95th percentile per-packet one-way delay: 53.246 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 183.60 Mbit/s
95th percentile per-packet one-way delay: 50.386 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 100.96 Mbit/s
95th percentile per-packet one-way delay: 53.324 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 13.95 Mbit/s
95th percentile per-packet one-way delay: 54.286 ms
Loss rate: 0.00%
```


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

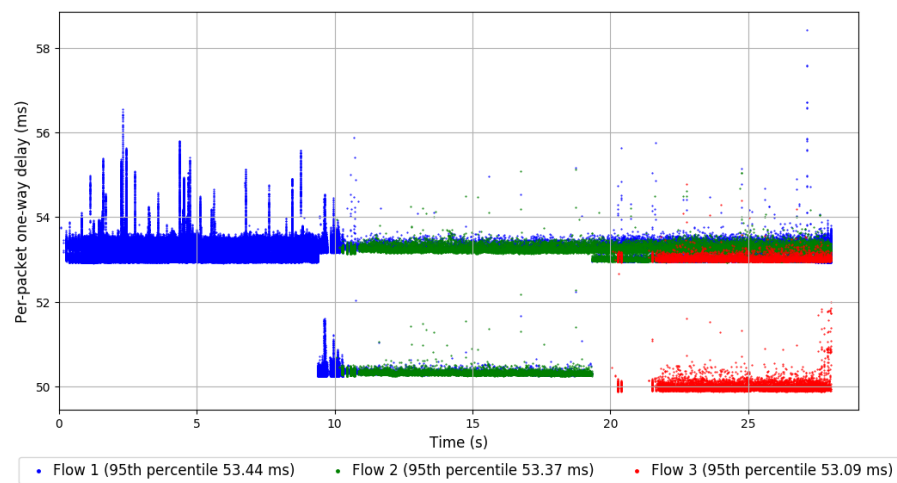
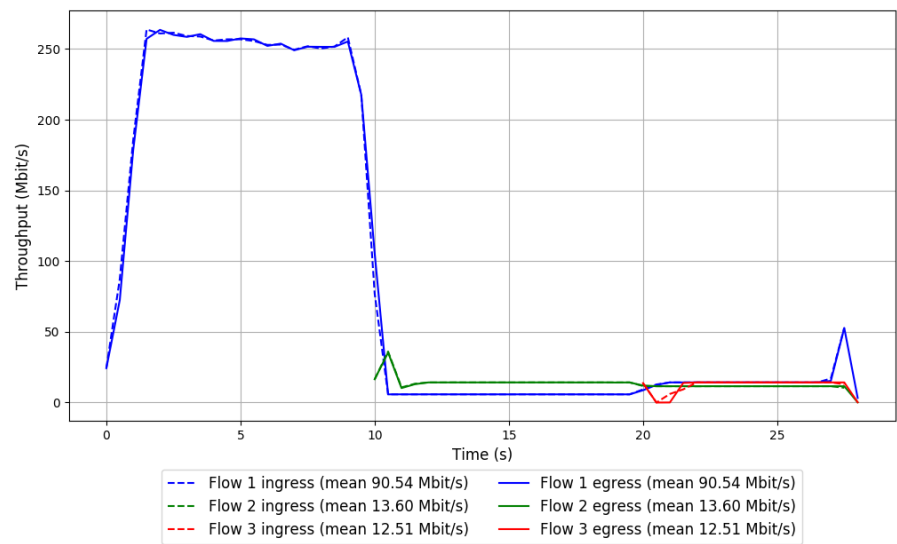


```
Run 10: Statistics of TaoVA-100x

Start at: 2017-11-21 23:26:07
End at: 2017-11-21 23:26:37

# Below is generated by plot.py at 2017-11-22 01:08:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 102.82 Mbit/s
95th percentile per-packet one-way delay: 53.431 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 90.54 Mbit/s
95th percentile per-packet one-way delay: 53.437 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 13.60 Mbit/s
95th percentile per-packet one-way delay: 53.370 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 12.51 Mbit/s
95th percentile per-packet one-way delay: 53.087 ms
Loss rate: 0.00%
```

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

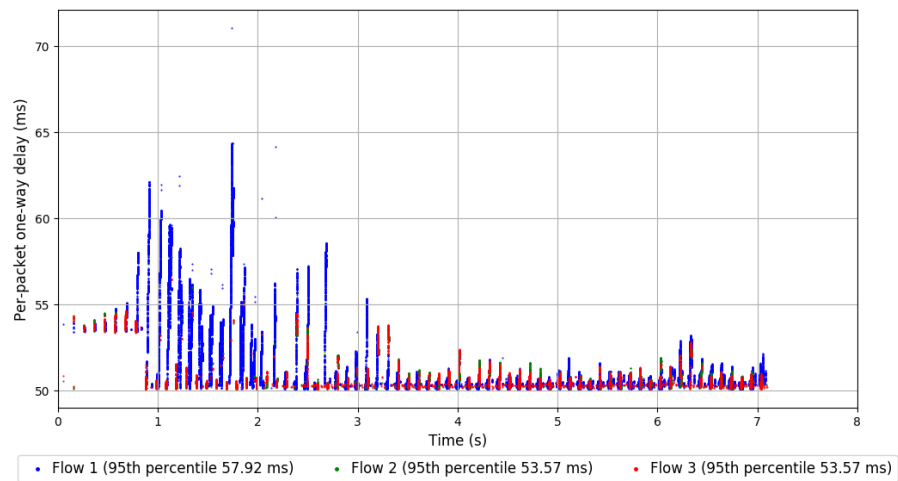
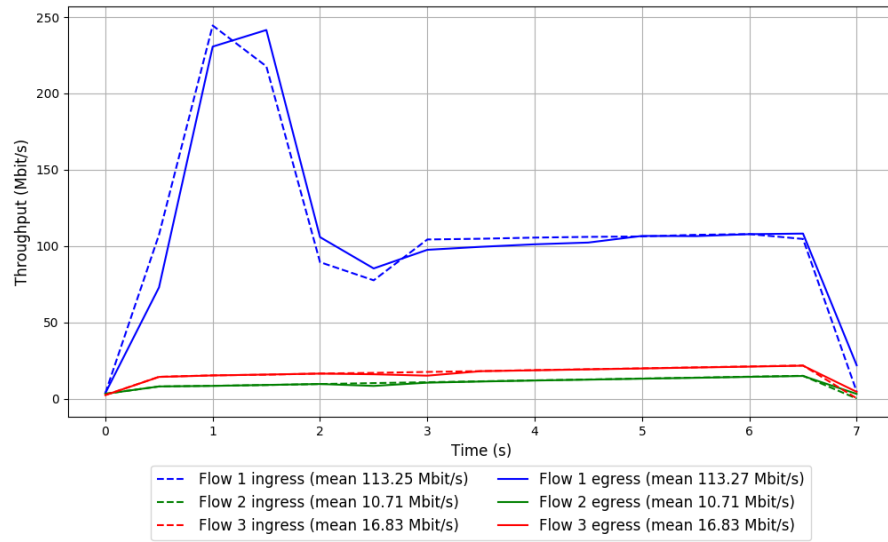


Run 1: Statistics of TCP Vegas

Start at: 2017-11-21 21:36:45

End at: 2017-11-21 21:37:15

Run 1: Report of TCP Vegas — Data Link

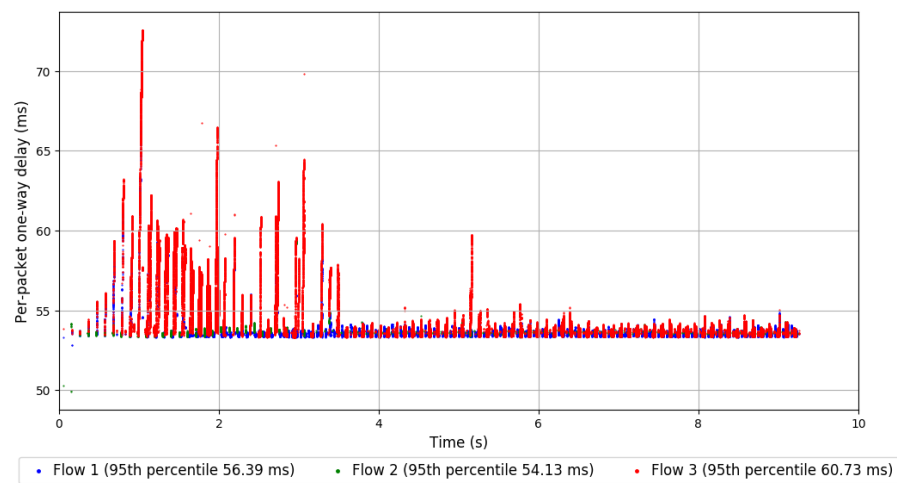
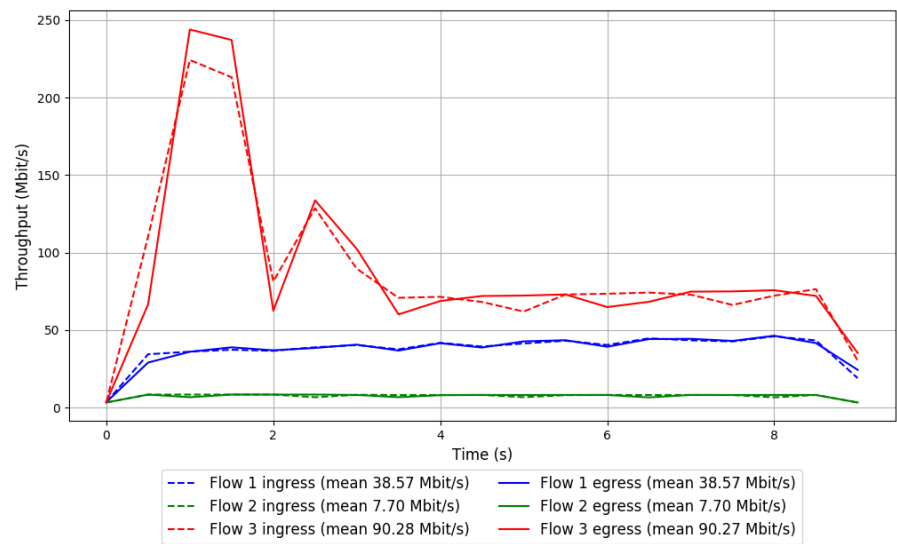


Run 2: Statistics of TCP Vegas

Start at: 2017-11-21 21:48:37

End at: 2017-11-21 21:49:07

Run 2: Report of TCP Vegas — Data Link

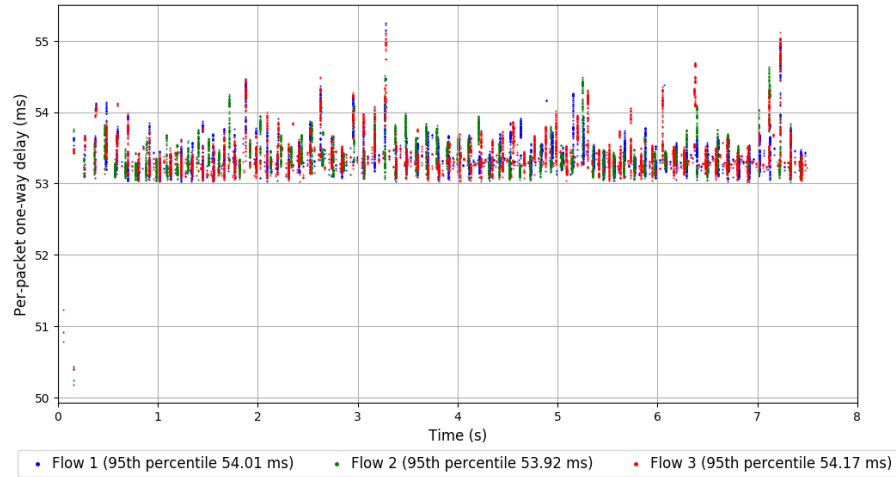
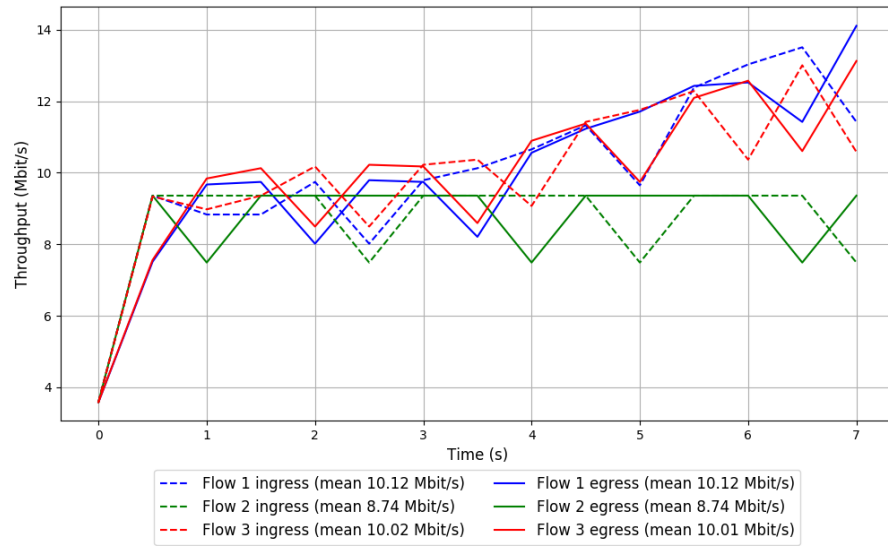


Run 3: Statistics of TCP Vegas

Start at: 2017-11-21 22:00:53

End at: 2017-11-21 22:01:23

Run 3: Report of TCP Vegas — Data Link

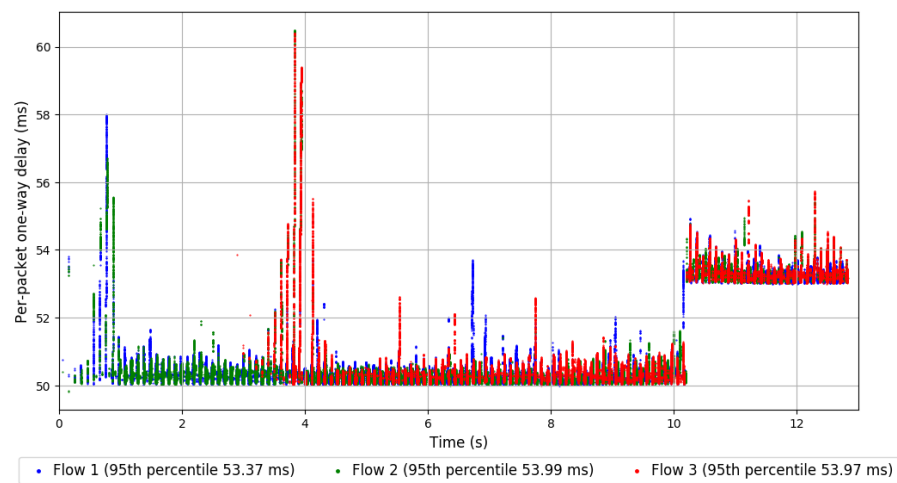
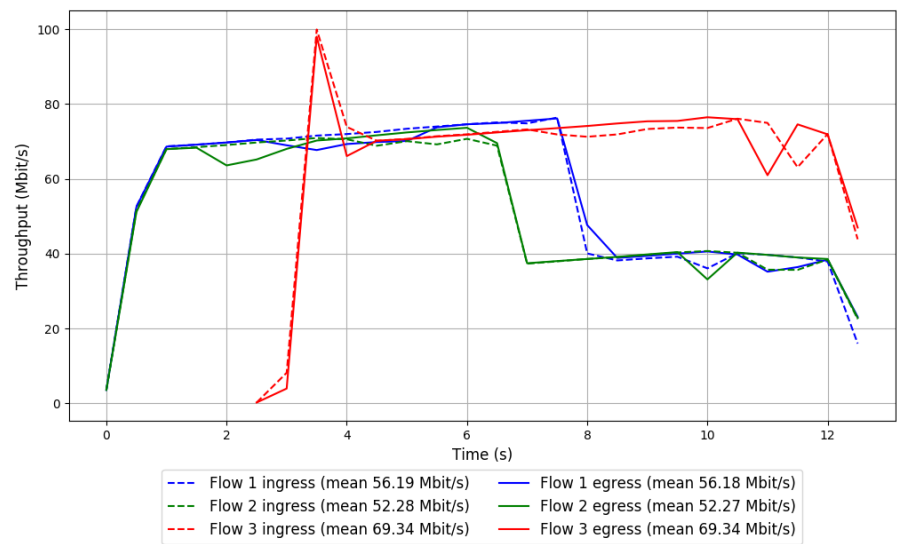


Run 4: Statistics of TCP Vegas

Start at: 2017-11-21 22:12:51

End at: 2017-11-21 22:13:21

Run 4: Report of TCP Vegas — Data Link

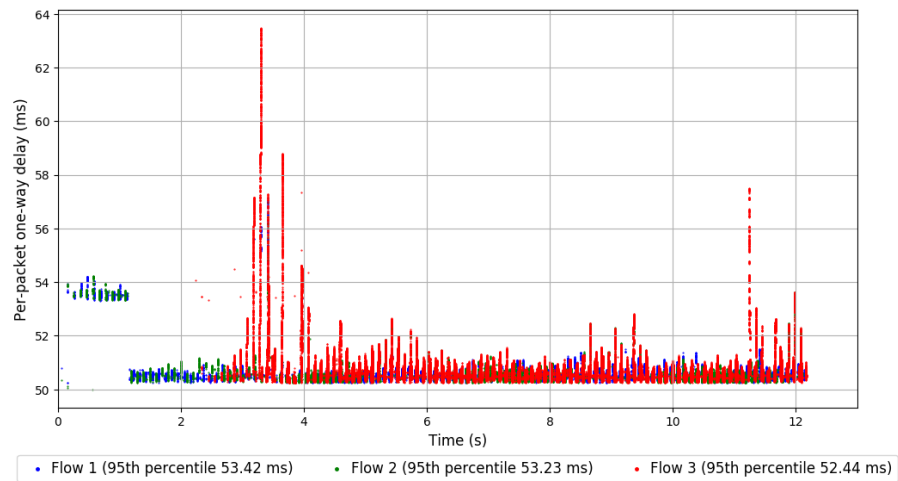
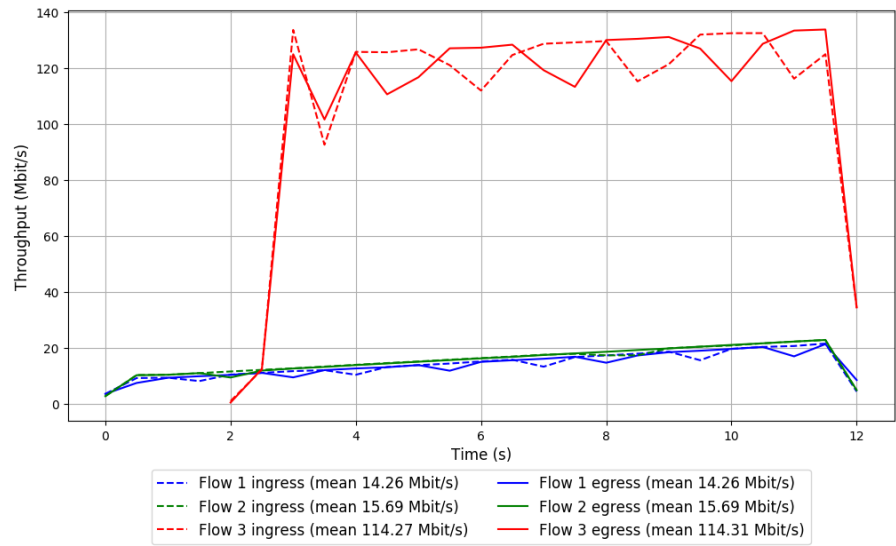


Run 5: Statistics of TCP Vegas

Start at: 2017-11-21 22:24:59

End at: 2017-11-21 22:25:29

Run 5: Report of TCP Vegas — Data Link

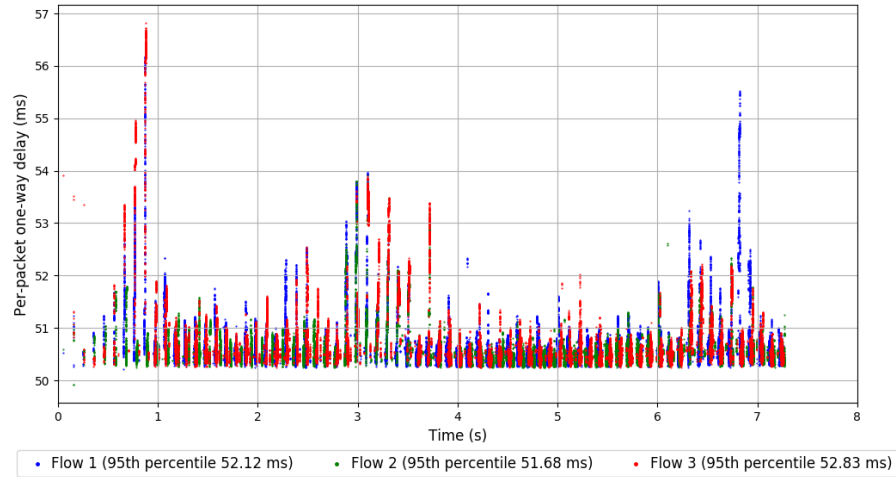
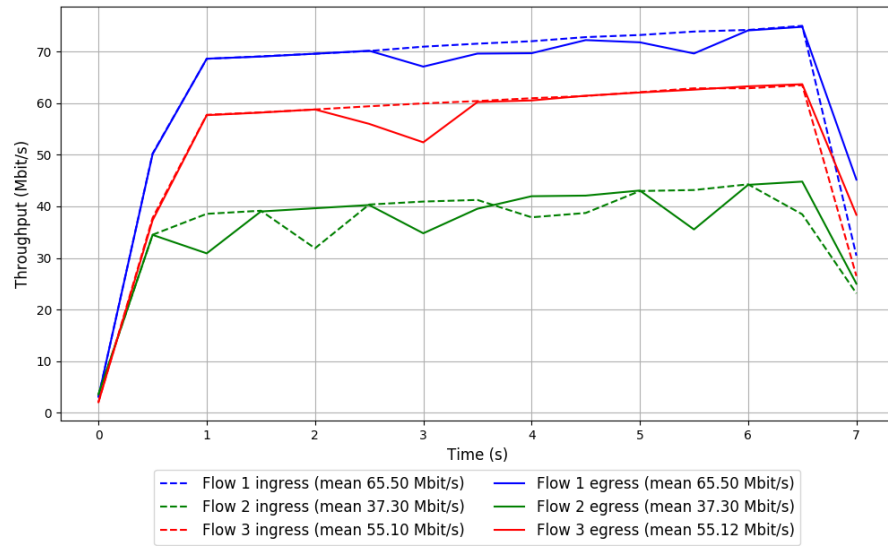


Run 6: Statistics of TCP Vegas

Start at: 2017-11-21 22:37:08

End at: 2017-11-21 22:37:38

Run 6: Report of TCP Vegas — Data Link

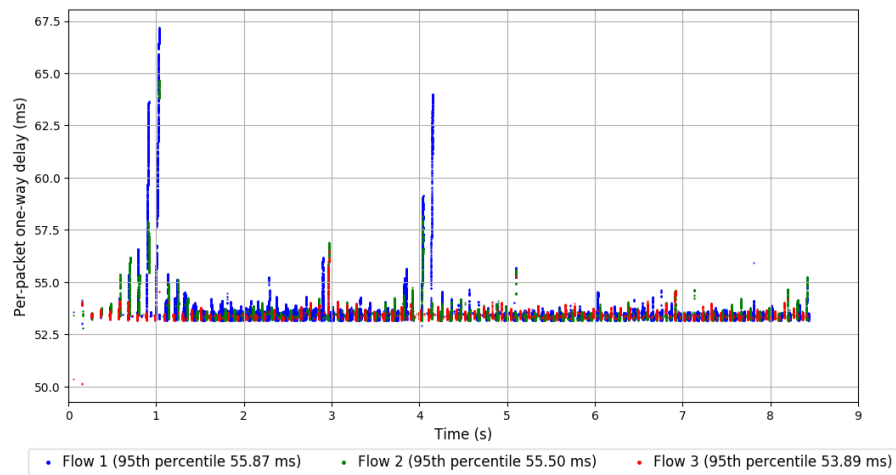
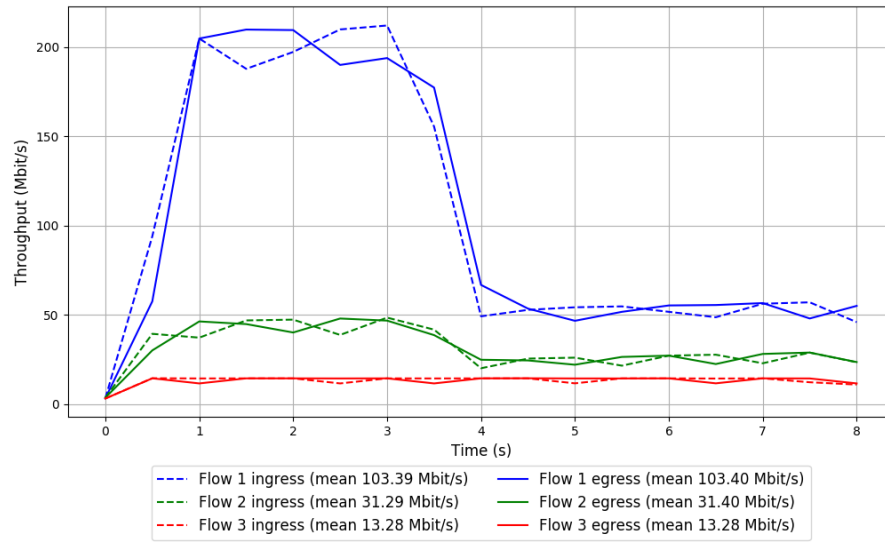


Run 7: Statistics of TCP Vegas

Start at: 2017-11-21 22:49:20

End at: 2017-11-21 22:49:50

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2017-11-21 23:01:23

End at: 2017-11-21 23:01:53

Below is generated by plot.py at 2017-11-22 01:08:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.27 Mbit/s

95th percentile per-packet one-way delay: 51.966 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 12.59 Mbit/s

95th percentile per-packet one-way delay: 2763.376 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 7.28 Mbit/s

95th percentile per-packet one-way delay: 51.933 ms

Loss rate: 0.00%

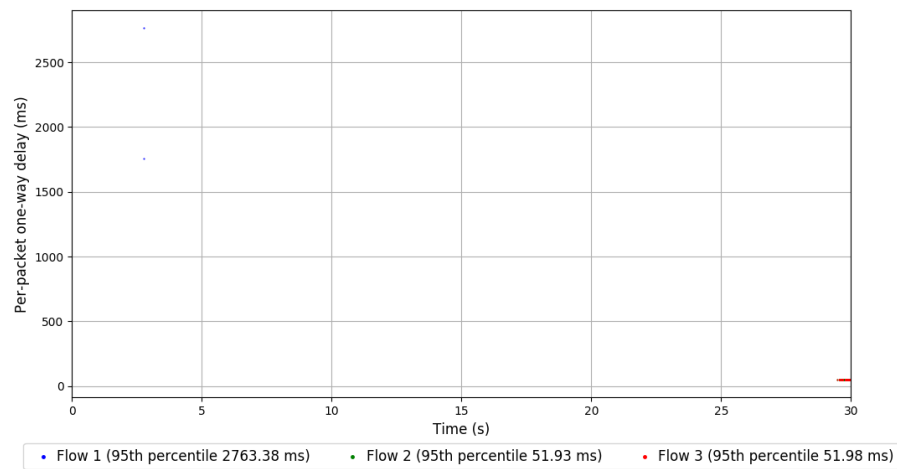
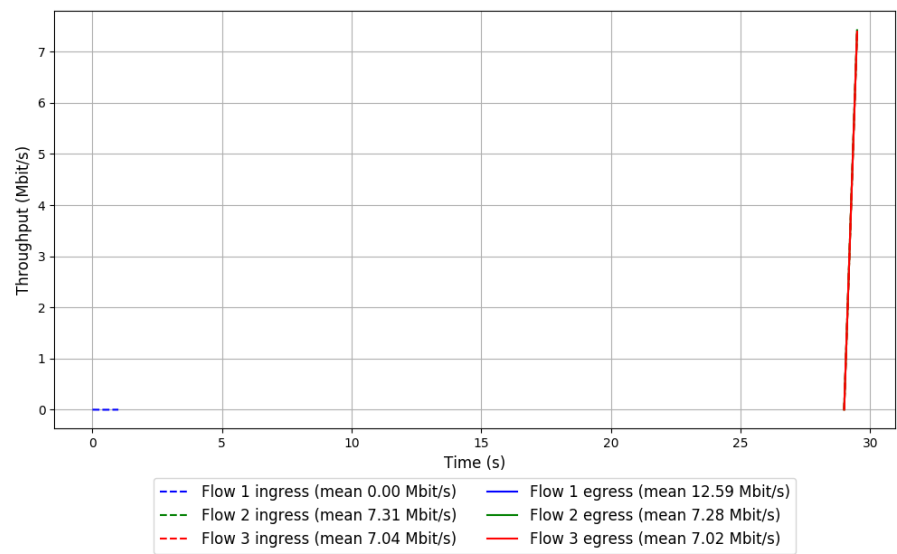
-- Flow 3:

Average throughput: 7.02 Mbit/s

95th percentile per-packet one-way delay: 51.984 ms

Loss rate: 0.00%

Run 8: Report of TCP Vegas — Data Link

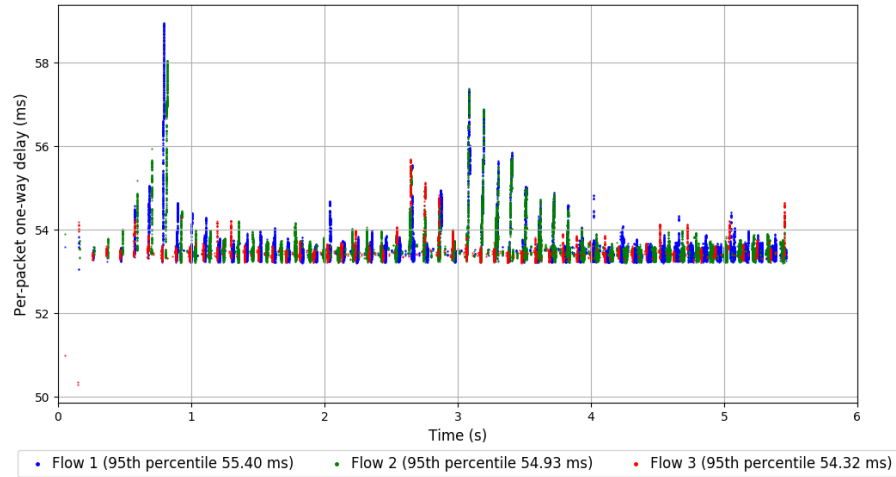
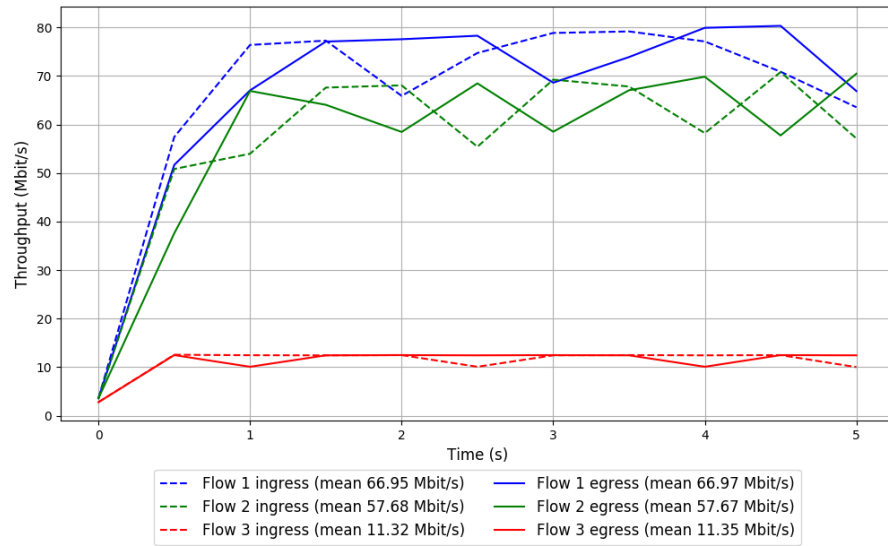


Run 9: Statistics of TCP Vegas

Start at: 2017-11-21 23:13:15

End at: 2017-11-21 23:13:45

Run 9: Report of TCP Vegas — Data Link

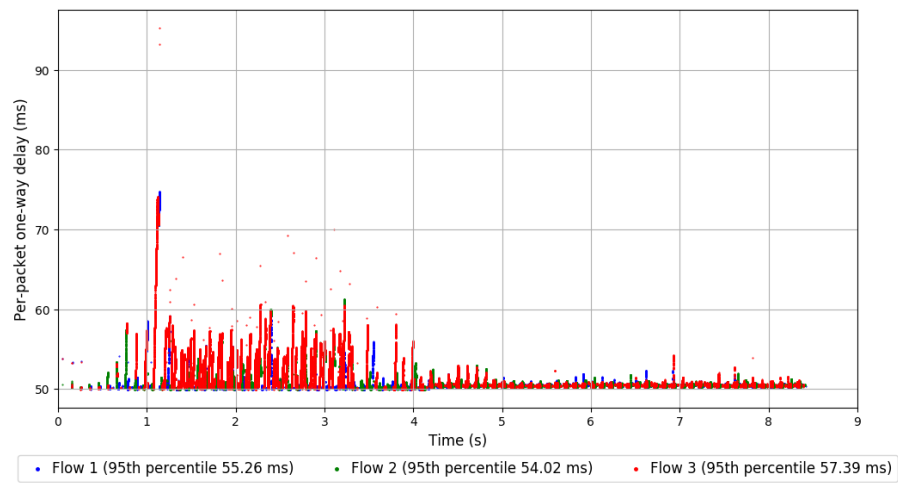
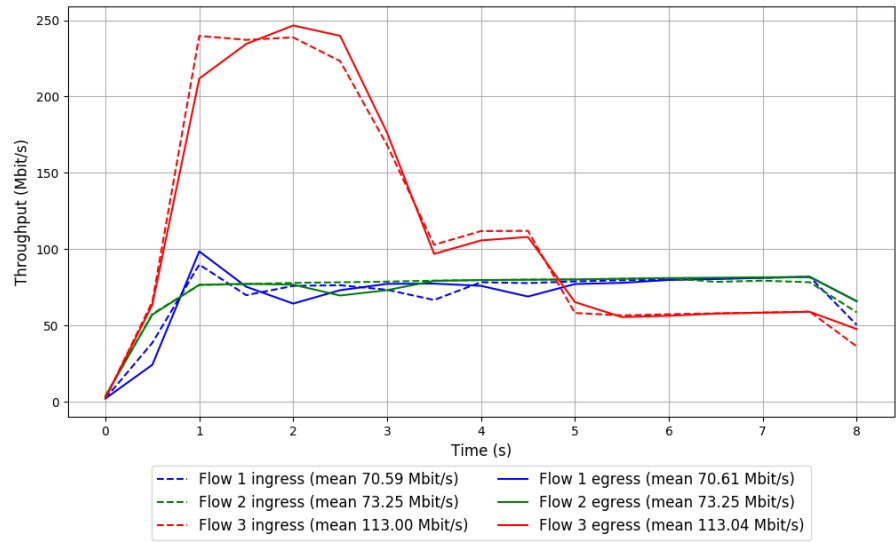


Run 10: Statistics of TCP Vegas

Start at: 2017-11-21 23:25:23

End at: 2017-11-21 23:25:53

Run 10: Report of TCP Vegas — Data Link

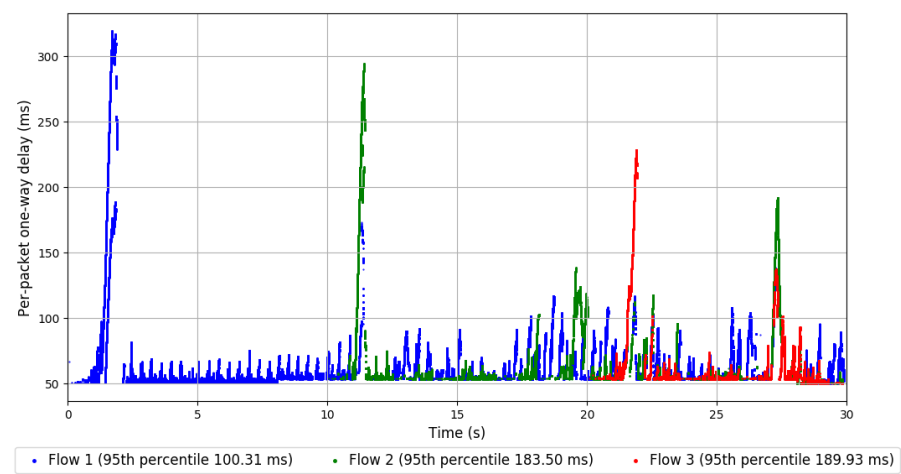
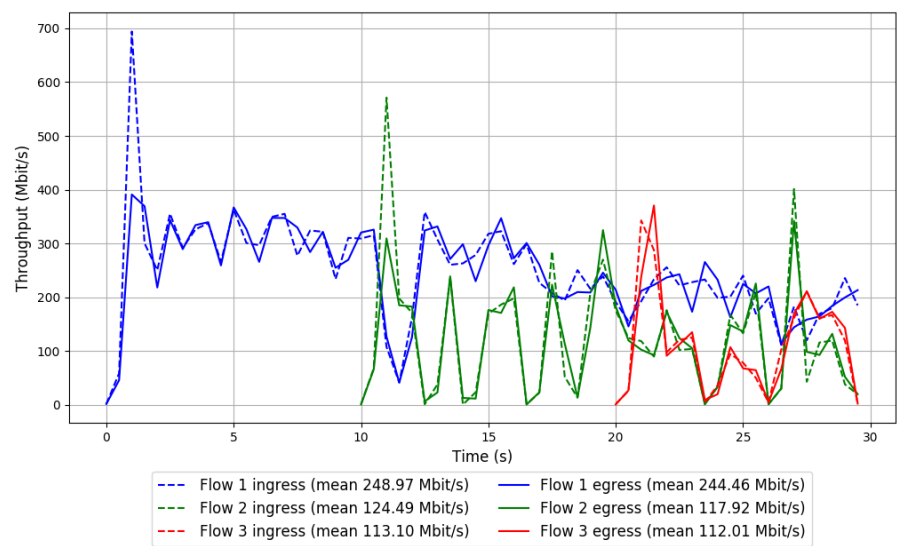


```
Run 1: Statistics of Verus

Start at: 2017-11-21 21:31:40
End at: 2017-11-21 21:32:10

# Below is generated by plot.py at 2017-11-22 01:11:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 359.07 Mbit/s
95th percentile per-packet one-way delay: 123.535 ms
Loss rate: 2.54%
-- Flow 1:
Average throughput: 244.46 Mbit/s
95th percentile per-packet one-way delay: 100.310 ms
Loss rate: 1.86%
-- Flow 2:
Average throughput: 117.92 Mbit/s
95th percentile per-packet one-way delay: 183.505 ms
Loss rate: 5.28%
-- Flow 3:
Average throughput: 112.01 Mbit/s
95th percentile per-packet one-way delay: 189.927 ms
Loss rate: 1.00%
```


Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2017-11-21 21:43:31

End at: 2017-11-21 21:44:01

Below is generated by plot.py at 2017-11-22 01:11:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 371.82 Mbit/s

95th percentile per-packet one-way delay: 128.083 ms

Loss rate: 0.26%

-- Flow 1:

Average throughput: 240.64 Mbit/s

95th percentile per-packet one-way delay: 111.128 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 112.56 Mbit/s

95th percentile per-packet one-way delay: 94.656 ms

Loss rate: 0.02%

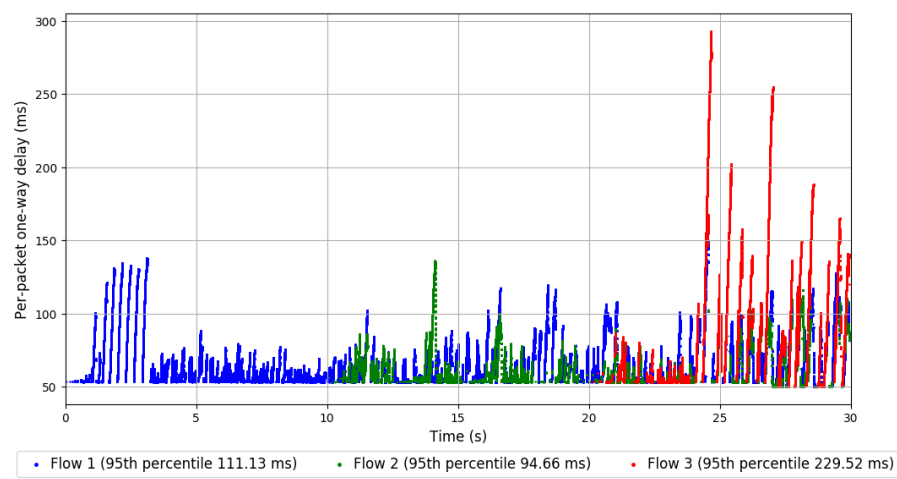
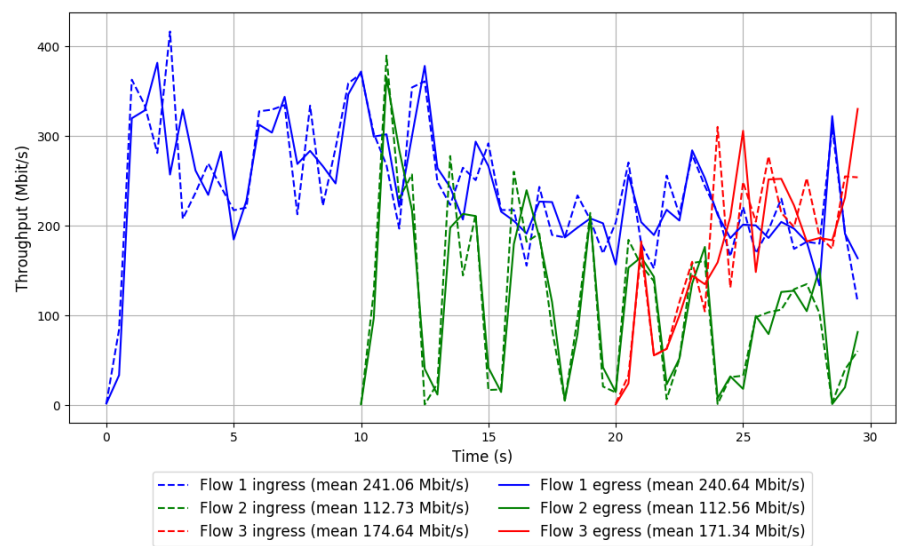
-- Flow 3:

Average throughput: 171.34 Mbit/s

95th percentile per-packet one-way delay: 229.520 ms

Loss rate: 1.32%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2017-11-21 21:55:44

End at: 2017-11-21 21:56:14

Below is generated by plot.py at 2017-11-22 01:11:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 390.95 Mbit/s

95th percentile per-packet one-way delay: 101.660 ms

Loss rate: 0.31%

-- Flow 1:

Average throughput: 192.47 Mbit/s

95th percentile per-packet one-way delay: 99.359 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 226.70 Mbit/s

95th percentile per-packet one-way delay: 118.138 ms

Loss rate: 0.71%

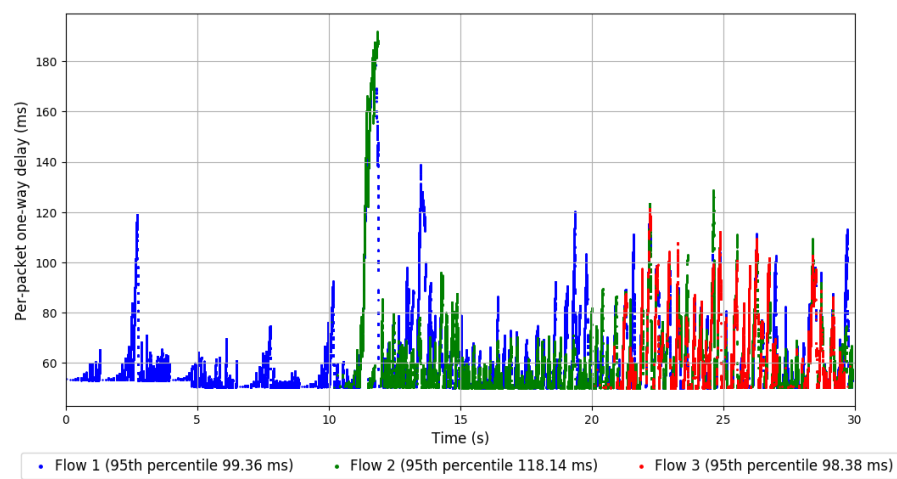
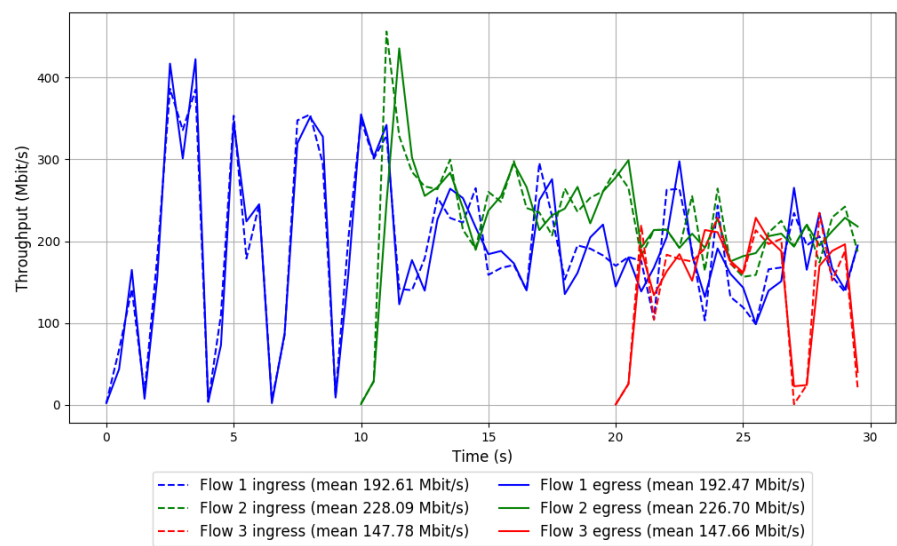
-- Flow 3:

Average throughput: 147.66 Mbit/s

95th percentile per-packet one-way delay: 98.377 ms

Loss rate: 0.00%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2017-11-21 22:07:42

End at: 2017-11-21 22:08:12

Below is generated by plot.py at 2017-11-22 01:11:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 375.75 Mbit/s

95th percentile per-packet one-way delay: 179.395 ms

Loss rate: 1.69%

-- Flow 1:

Average throughput: 243.24 Mbit/s

95th percentile per-packet one-way delay: 206.582 ms

Loss rate: 1.32%

-- Flow 2:

Average throughput: 138.66 Mbit/s

95th percentile per-packet one-way delay: 142.264 ms

Loss rate: 1.82%

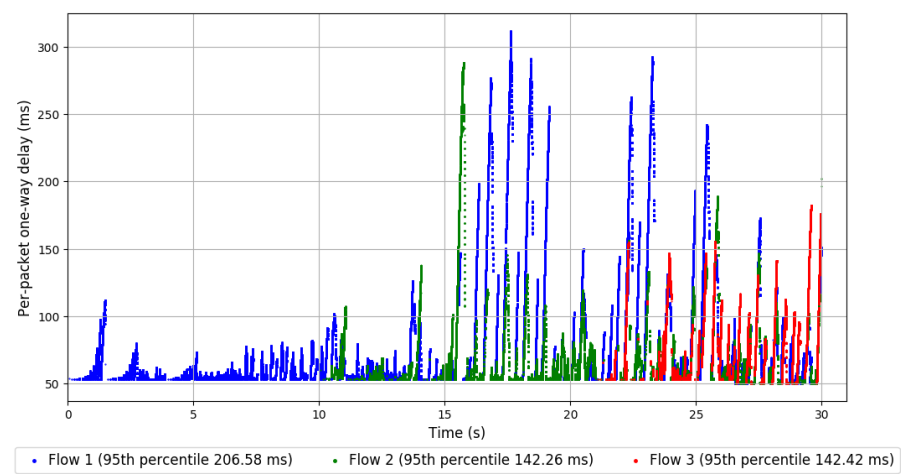
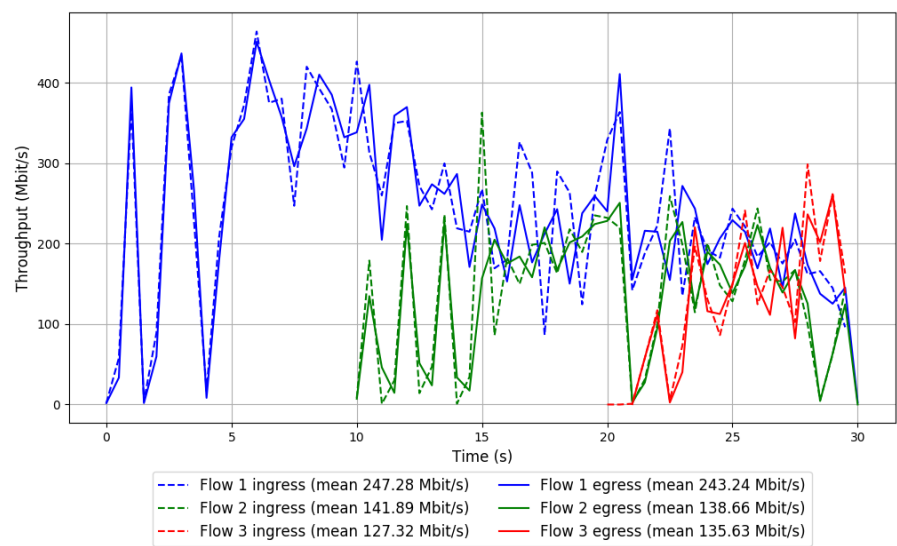
-- Flow 3:

Average throughput: 135.63 Mbit/s

95th percentile per-packet one-way delay: 142.424 ms

Loss rate: 3.54%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2017-11-21 22:19:48

End at: 2017-11-21 22:20:18

Below is generated by plot.py at 2017-11-22 01:13:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 415.49 Mbit/s

95th percentile per-packet one-way delay: 133.180 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 224.58 Mbit/s

95th percentile per-packet one-way delay: 119.690 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 228.03 Mbit/s

95th percentile per-packet one-way delay: 153.224 ms

Loss rate: 0.07%

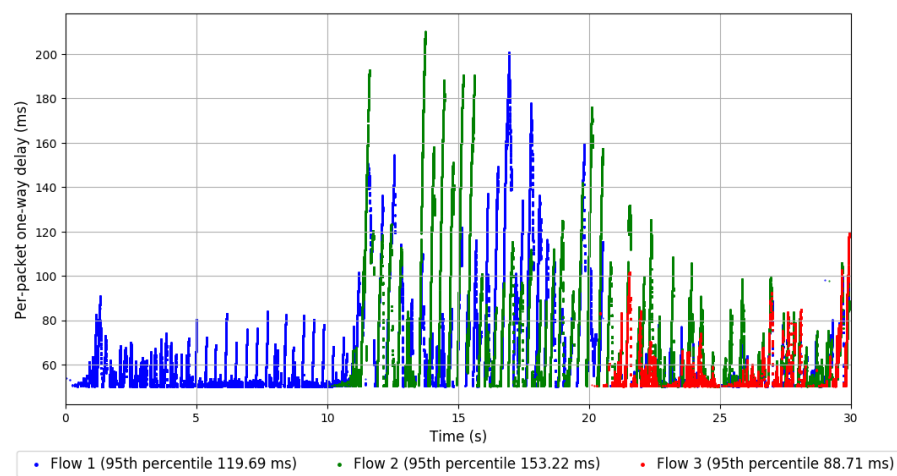
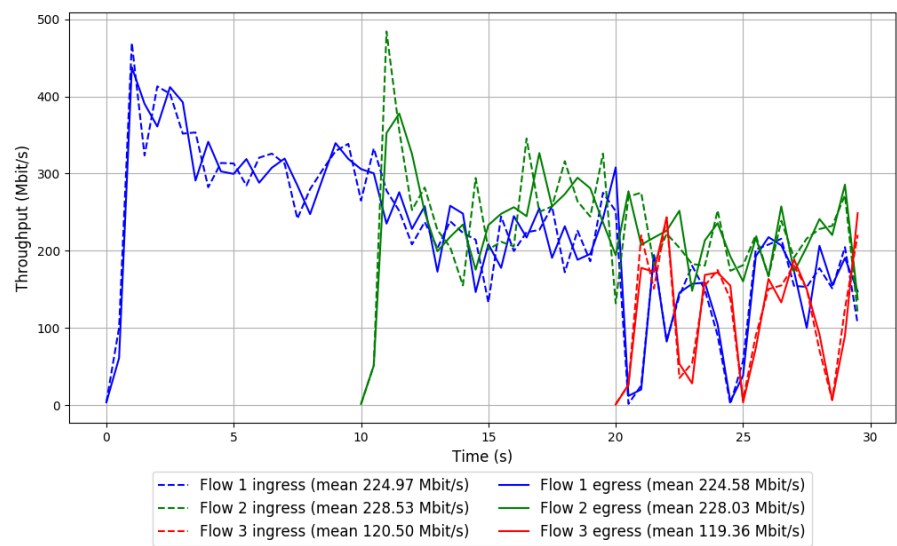
-- Flow 3:

Average throughput: 119.36 Mbit/s

95th percentile per-packet one-way delay: 88.712 ms

Loss rate: 0.30%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2017-11-21 22:32:03

End at: 2017-11-21 22:32:33

Below is generated by plot.py at 2017-11-22 01:13:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 330.98 Mbit/s

95th percentile per-packet one-way delay: 81.296 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 164.94 Mbit/s

95th percentile per-packet one-way delay: 77.602 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 195.92 Mbit/s

95th percentile per-packet one-way delay: 78.102 ms

Loss rate: 0.00%

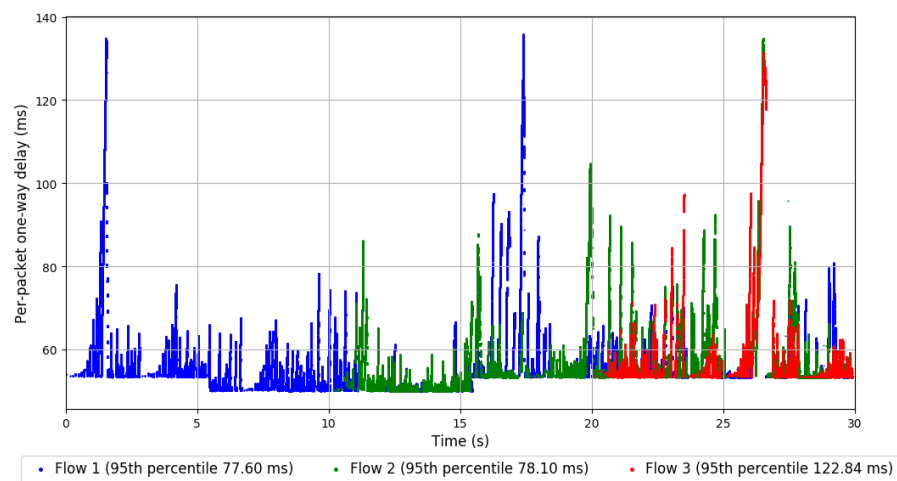
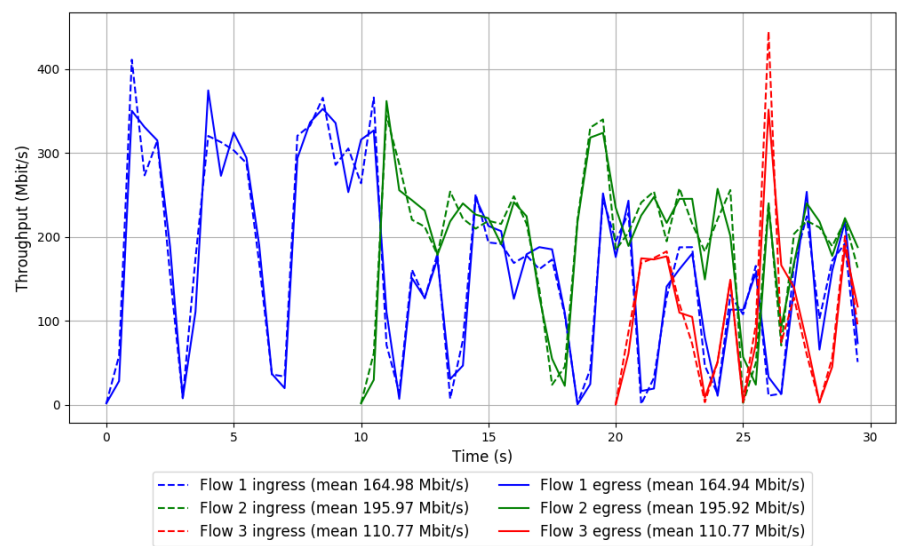
-- Flow 3:

Average throughput: 110.77 Mbit/s

95th percentile per-packet one-way delay: 122.839 ms

Loss rate: 0.00%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2017-11-21 22:44:14

End at: 2017-11-21 22:44:44

Below is generated by plot.py at 2017-11-22 01:13:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 333.82 Mbit/s

95th percentile per-packet one-way delay: 193.647 ms

Loss rate: 4.40%

-- Flow 1:

Average throughput: 196.23 Mbit/s

95th percentile per-packet one-way delay: 111.278 ms

Loss rate: 0.30%

-- Flow 2:

Average throughput: 117.07 Mbit/s

95th percentile per-packet one-way delay: 145.636 ms

Loss rate: 2.77%

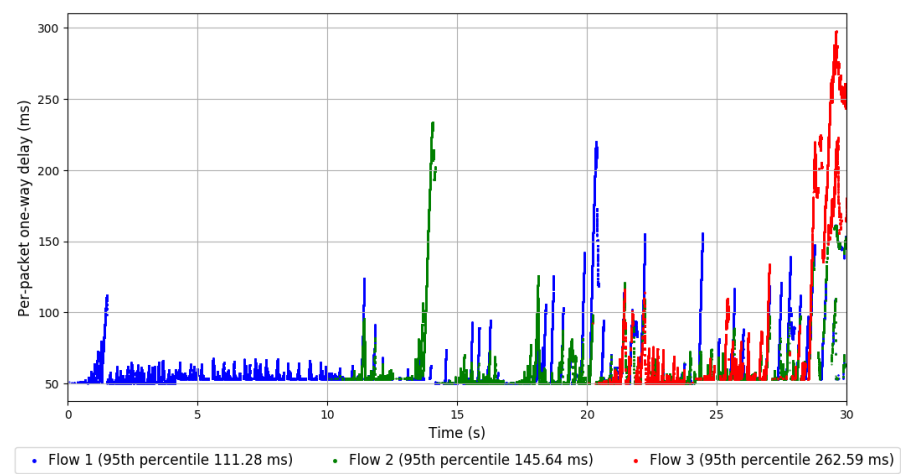
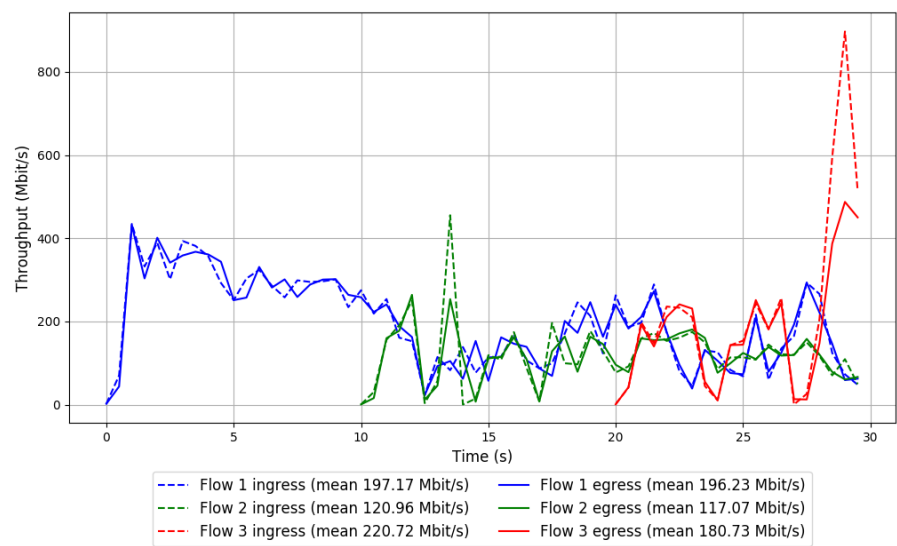
-- Flow 3:

Average throughput: 180.73 Mbit/s

95th percentile per-packet one-way delay: 262.589 ms

Loss rate: 17.33%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2017-11-21 22:56:22

End at: 2017-11-21 22:56:52

Below is generated by plot.py at 2017-11-22 01:15:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 368.43 Mbit/s

95th percentile per-packet one-way delay: 138.796 ms

Loss rate: 1.27%

-- Flow 1:

Average throughput: 227.19 Mbit/s

95th percentile per-packet one-way delay: 137.271 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 144.10 Mbit/s

95th percentile per-packet one-way delay: 237.529 ms

Loss rate: 4.43%

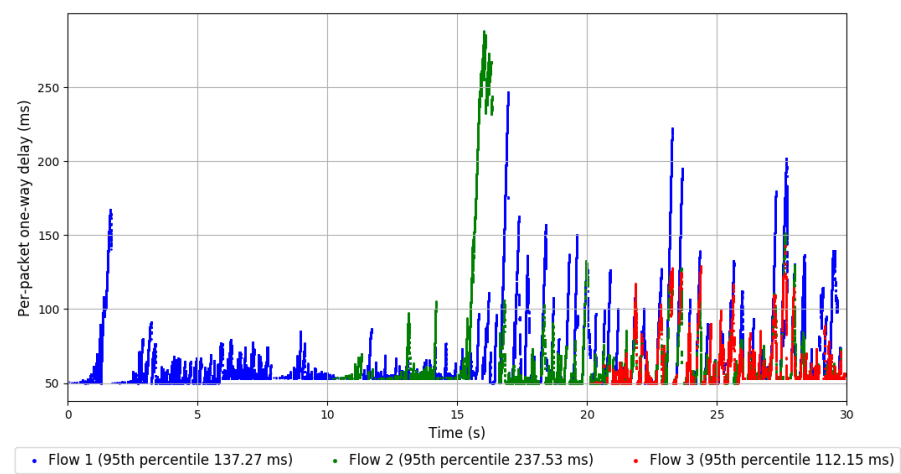
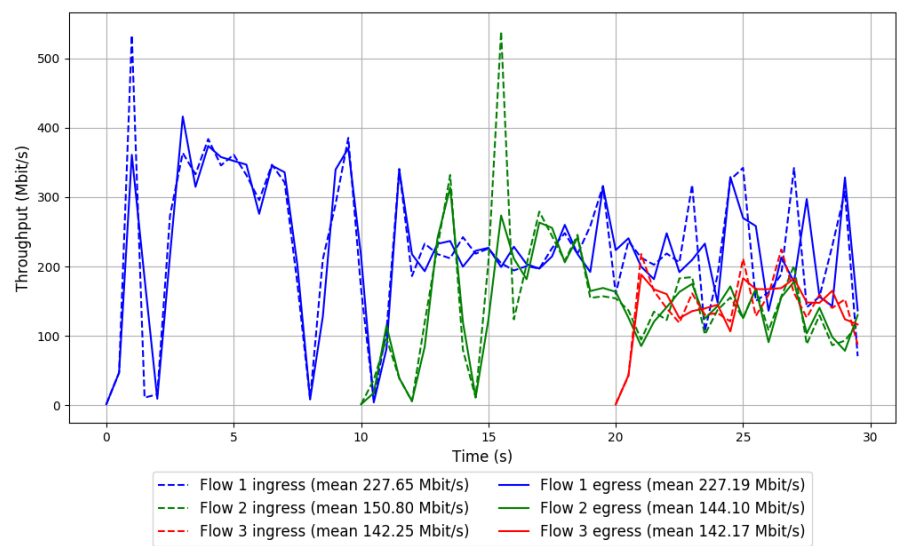
-- Flow 3:

Average throughput: 142.17 Mbit/s

95th percentile per-packet one-way delay: 112.148 ms

Loss rate: 0.01%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2017-11-21 23:08:07

End at: 2017-11-21 23:08:37

Below is generated by plot.py at 2017-11-22 01:17:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 376.34 Mbit/s

95th percentile per-packet one-way delay: 95.699 ms

Loss rate: 0.55%

-- Flow 1:

Average throughput: 256.94 Mbit/s

95th percentile per-packet one-way delay: 101.461 ms

Loss rate: 0.73%

-- Flow 2:

Average throughput: 132.70 Mbit/s

95th percentile per-packet one-way delay: 76.991 ms

Loss rate: 0.23%

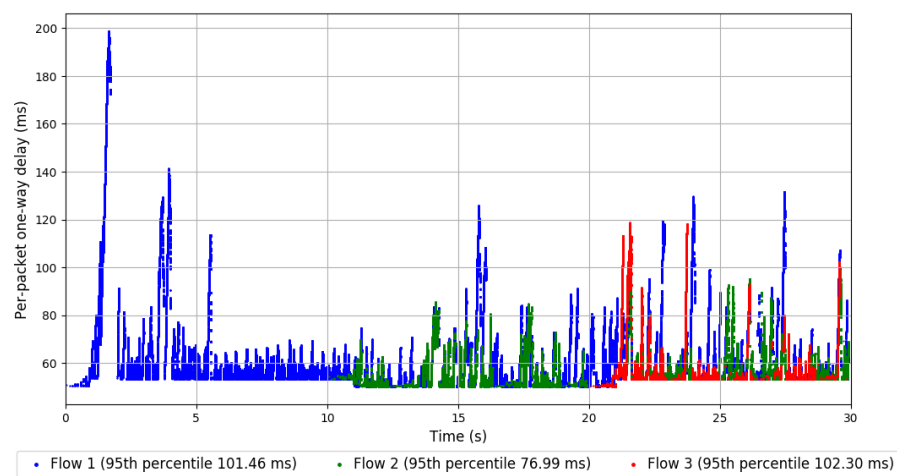
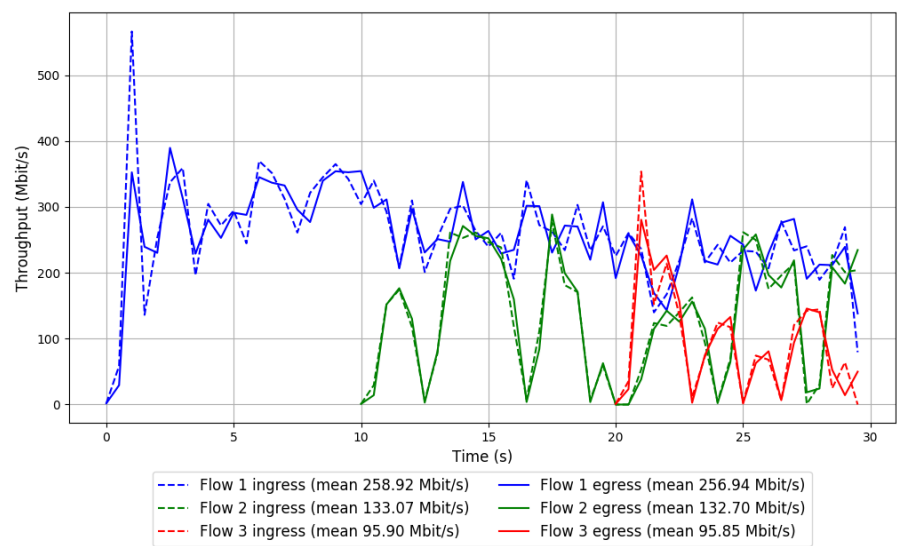
-- Flow 3:

Average throughput: 95.85 Mbit/s

95th percentile per-packet one-way delay: 102.303 ms

Loss rate: 0.02%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2017-11-21 23:20:16

End at: 2017-11-21 23:20:46

Below is generated by plot.py at 2017-11-22 01:17:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 377.45 Mbit/s

95th percentile per-packet one-way delay: 115.750 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 244.03 Mbit/s

95th percentile per-packet one-way delay: 128.907 ms

Loss rate: 0.15%

-- Flow 2:

Average throughput: 151.84 Mbit/s

95th percentile per-packet one-way delay: 100.508 ms

Loss rate: 0.01%

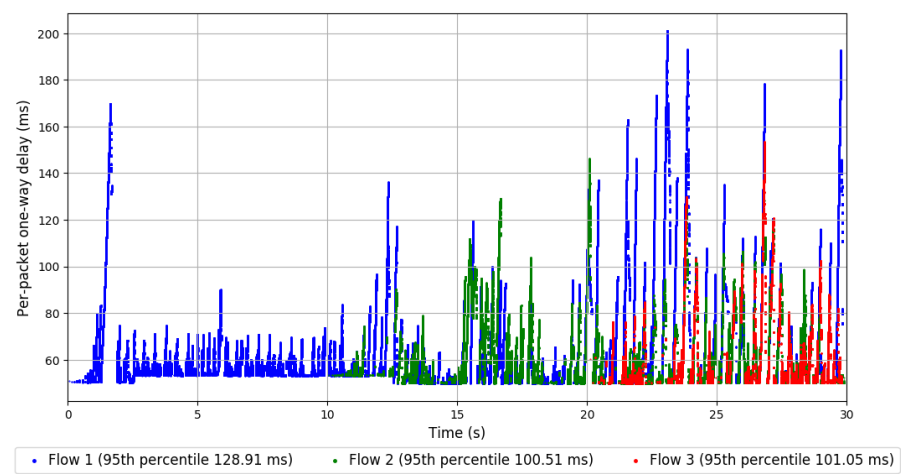
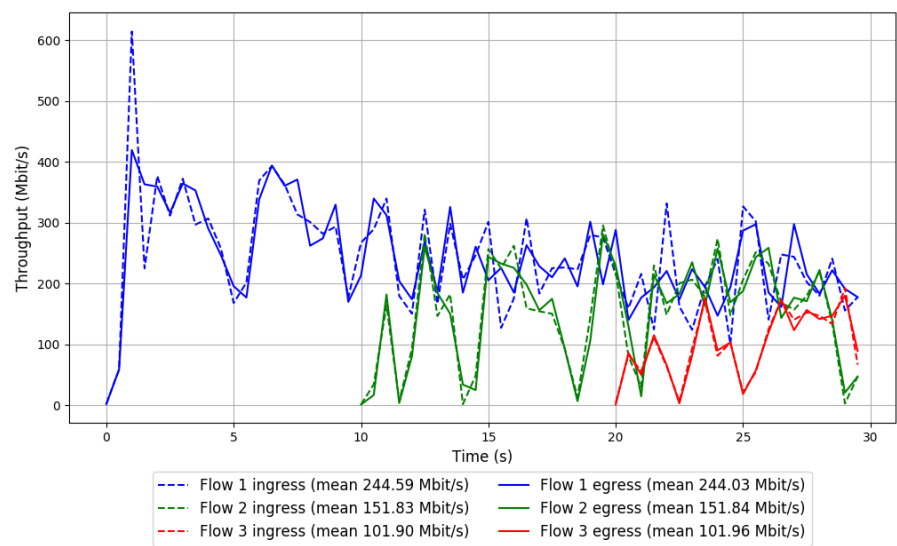
-- Flow 3:

Average throughput: 101.96 Mbit/s

95th percentile per-packet one-way delay: 101.049 ms

Loss rate: 0.01%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2017-11-21 21:30:09

End at: 2017-11-21 21:30:39

Below is generated by plot.py at 2017-11-22 01:17:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 121.25 Mbit/s

95th percentile per-packet one-way delay: 53.489 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 54.12 Mbit/s

95th percentile per-packet one-way delay: 53.621 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 86.19 Mbit/s

95th percentile per-packet one-way delay: 50.456 ms

Loss rate: 0.00%

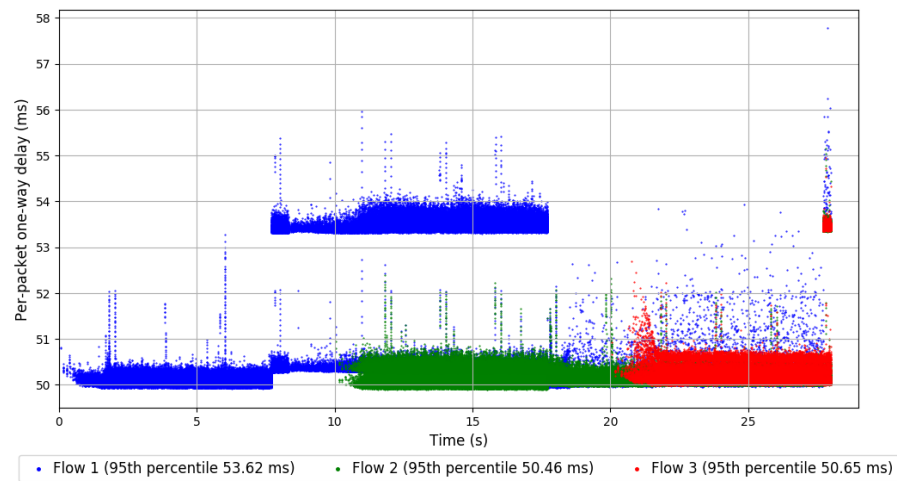
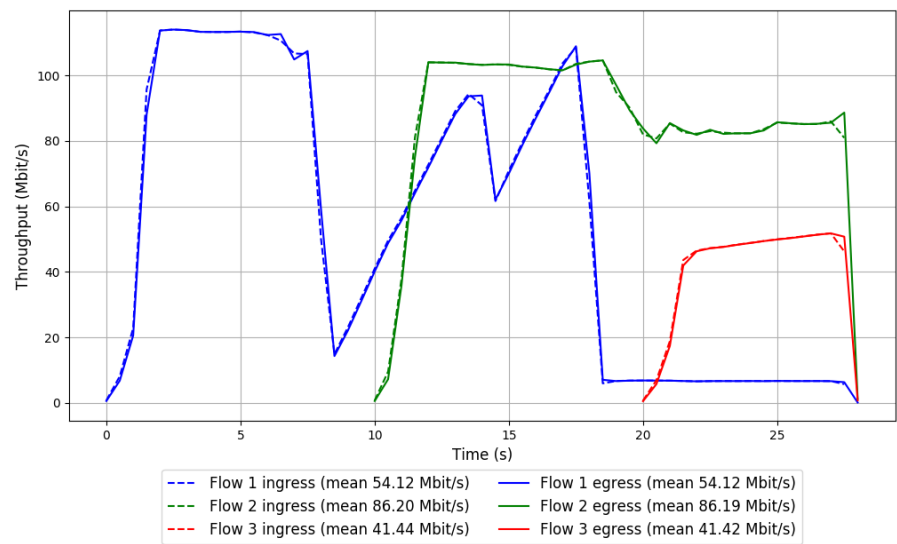
-- Flow 3:

Average throughput: 41.42 Mbit/s

95th percentile per-packet one-way delay: 50.647 ms

Loss rate: 0.00%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2017-11-21 21:41:57

End at: 2017-11-21 21:42:27

Below is generated by plot.py at 2017-11-22 01:17:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 145.07 Mbit/s

95th percentile per-packet one-way delay: 53.486 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 79.56 Mbit/s

95th percentile per-packet one-way delay: 53.516 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 66.65 Mbit/s

95th percentile per-packet one-way delay: 50.693 ms

Loss rate: 0.00%

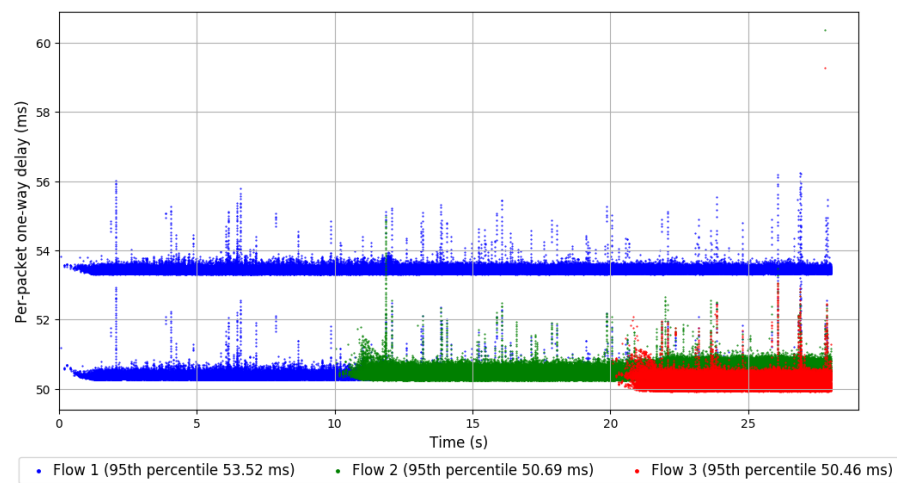
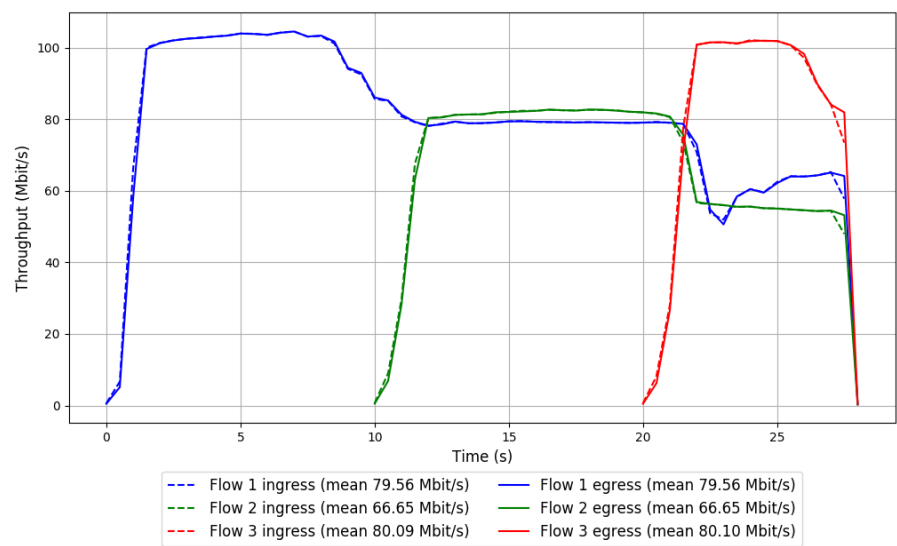
-- Flow 3:

Average throughput: 80.10 Mbit/s

95th percentile per-packet one-way delay: 50.464 ms

Loss rate: 0.00%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2017-11-21 21:54:09

End at: 2017-11-21 21:54:39

Below is generated by plot.py at 2017-11-22 01:17:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 139.42 Mbit/s

95th percentile per-packet one-way delay: 53.601 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 70.14 Mbit/s

95th percentile per-packet one-way delay: 53.694 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 76.94 Mbit/s

95th percentile per-packet one-way delay: 50.529 ms

Loss rate: 0.00%

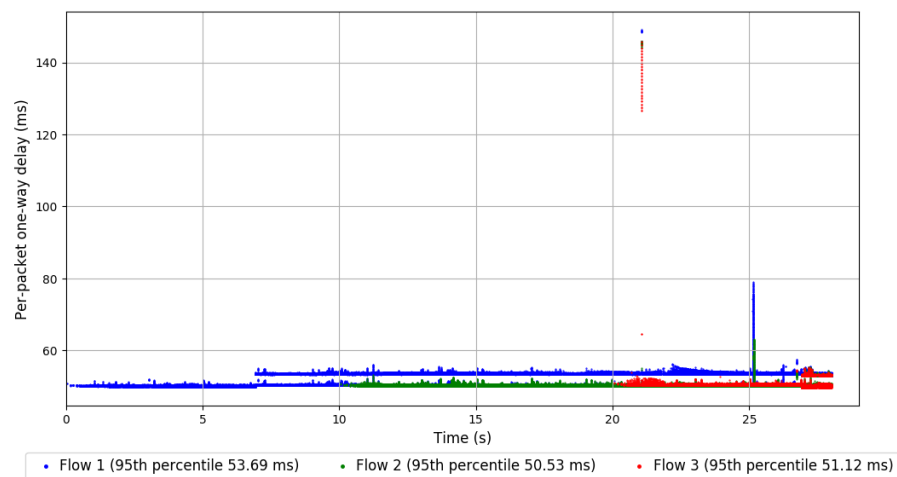
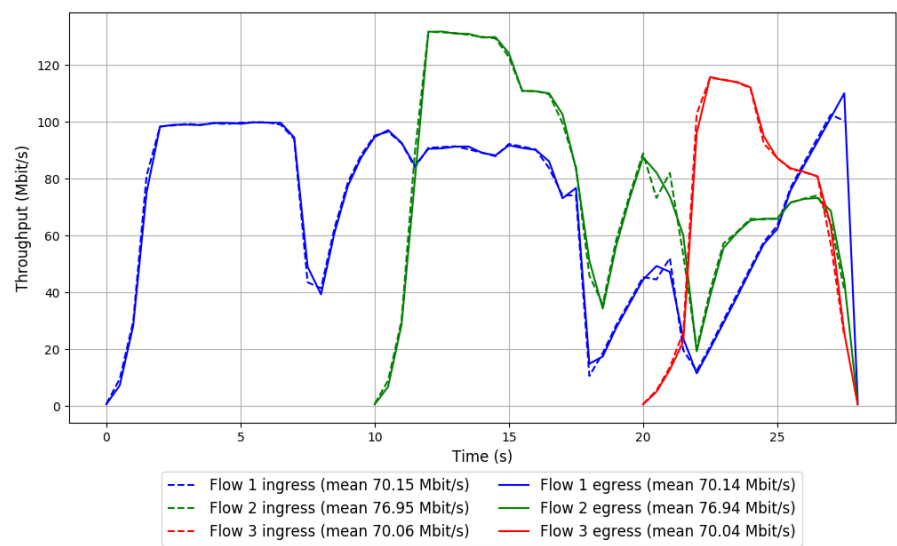
-- Flow 3:

Average throughput: 70.04 Mbit/s

95th percentile per-packet one-way delay: 51.122 ms

Loss rate: 0.00%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2017-11-21 22:06:10

End at: 2017-11-21 22:06:40

Below is generated by plot.py at 2017-11-22 01:17:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 108.21 Mbit/s

95th percentile per-packet one-way delay: 53.646 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 53.84 Mbit/s

95th percentile per-packet one-way delay: 53.575 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 60.93 Mbit/s

95th percentile per-packet one-way delay: 53.708 ms

Loss rate: 0.00%

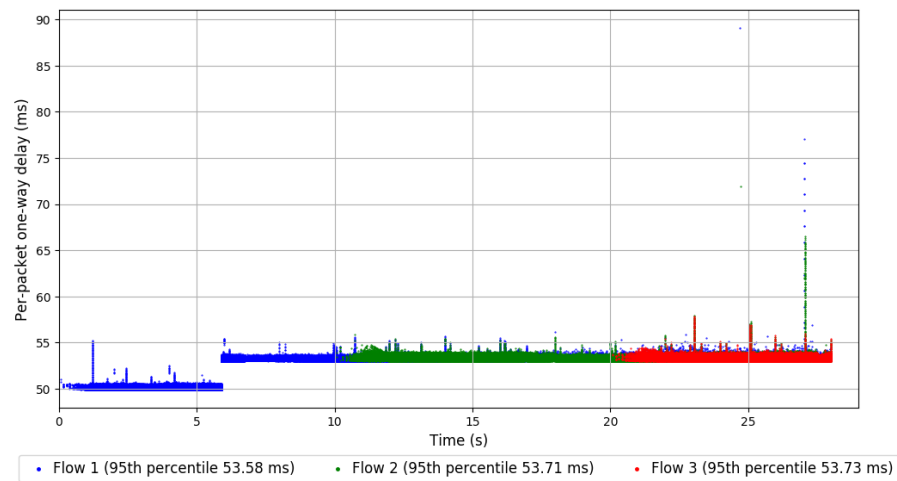
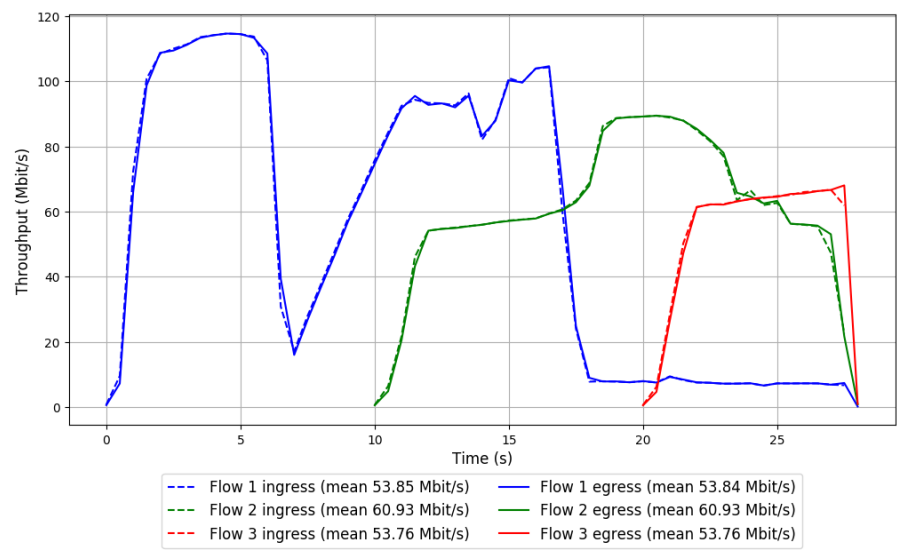
-- Flow 3:

Average throughput: 53.76 Mbit/s

95th percentile per-packet one-way delay: 53.726 ms

Loss rate: 0.01%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2017-11-21 22:18:15

End at: 2017-11-21 22:18:45

Below is generated by plot.py at 2017-11-22 01:17:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 134.49 Mbit/s

95th percentile per-packet one-way delay: 53.606 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 79.43 Mbit/s

95th percentile per-packet one-way delay: 53.560 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 64.04 Mbit/s

95th percentile per-packet one-way delay: 53.687 ms

Loss rate: 0.00%

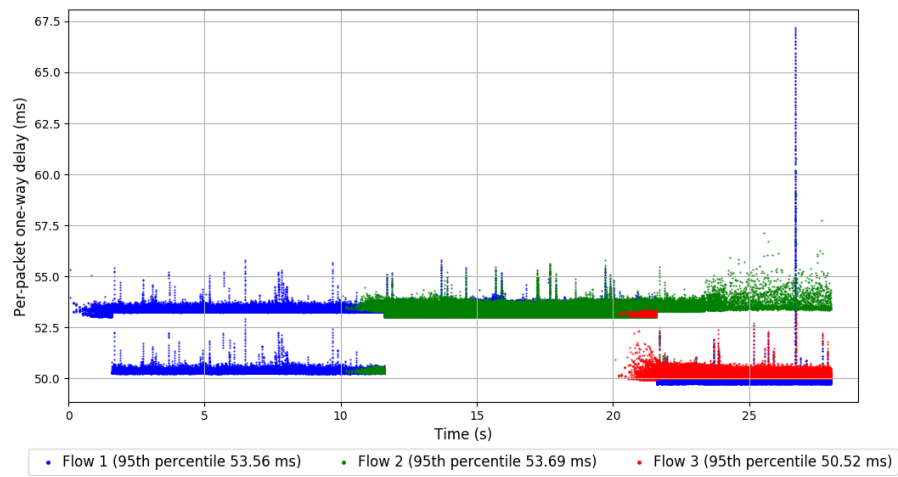
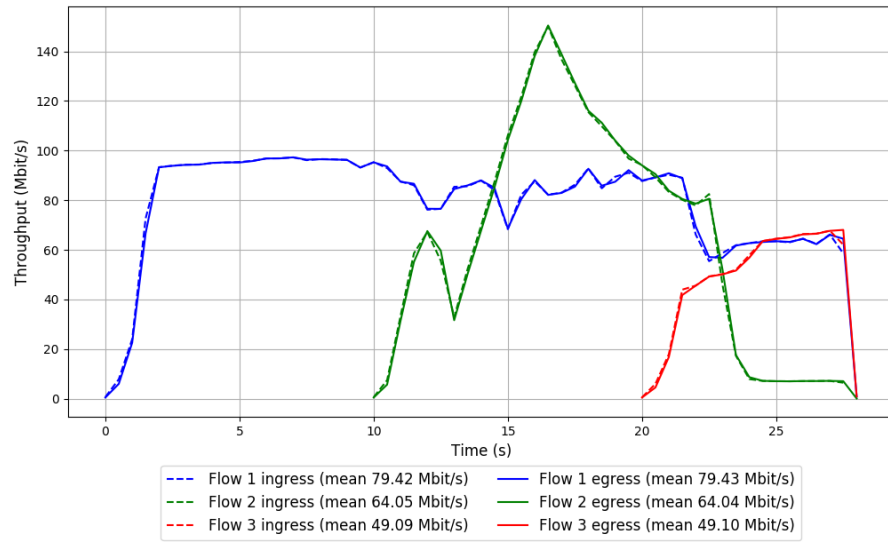
-- Flow 3:

Average throughput: 49.10 Mbit/s

95th percentile per-packet one-way delay: 50.519 ms

Loss rate: 0.00%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2017-11-21 22:30:31

End at: 2017-11-21 22:31:01

Below is generated by plot.py at 2017-11-22 01:18:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 116.56 Mbit/s

95th percentile per-packet one-way delay: 53.568 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 52.08 Mbit/s

95th percentile per-packet one-way delay: 53.546 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 75.21 Mbit/s

95th percentile per-packet one-way delay: 53.621 ms

Loss rate: 0.00%

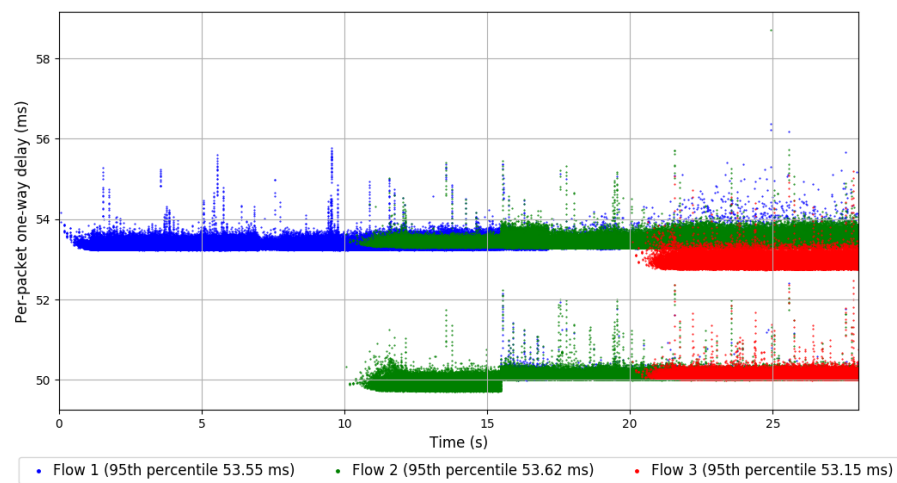
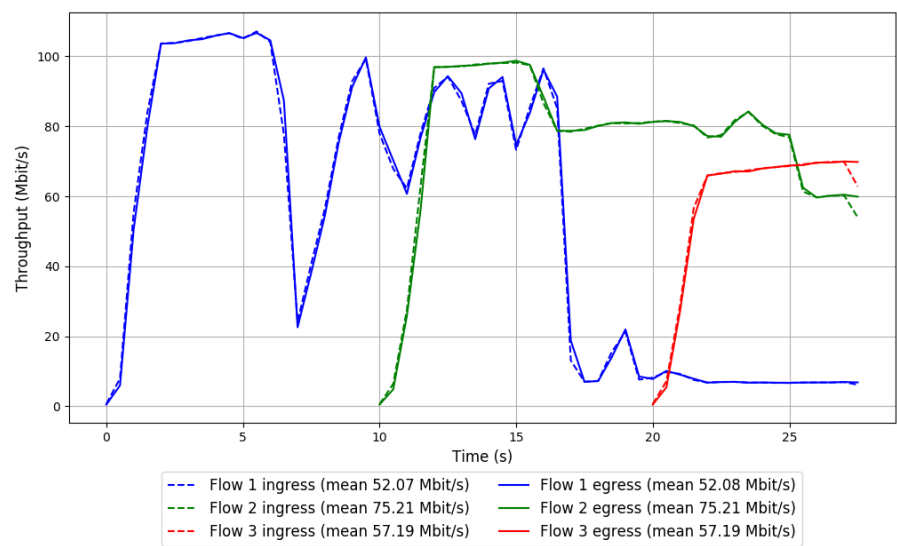
-- Flow 3:

Average throughput: 57.19 Mbit/s

95th percentile per-packet one-way delay: 53.152 ms

Loss rate: 0.00%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2017-11-21 22:42:40

End at: 2017-11-21 22:43:10

Below is generated by plot.py at 2017-11-22 01:19:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 140.40 Mbit/s

95th percentile per-packet one-way delay: 53.401 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 75.72 Mbit/s

95th percentile per-packet one-way delay: 53.389 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 70.93 Mbit/s

95th percentile per-packet one-way delay: 53.396 ms

Loss rate: 0.00%

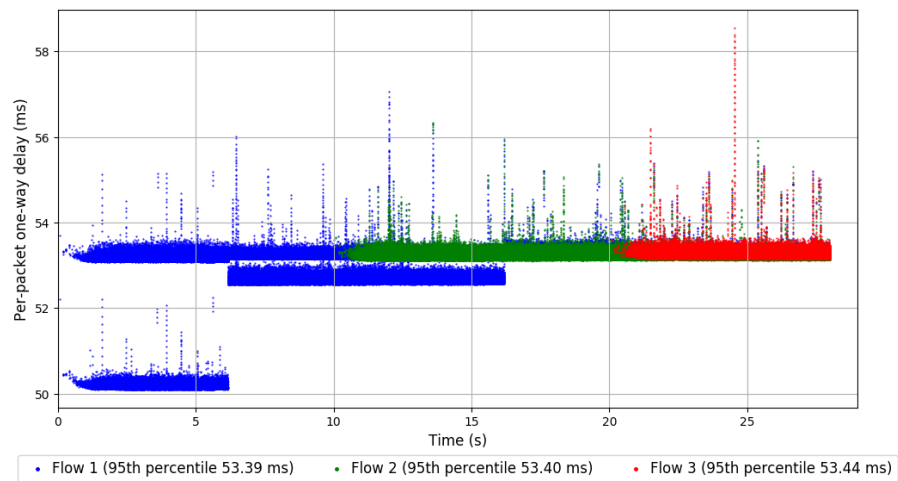
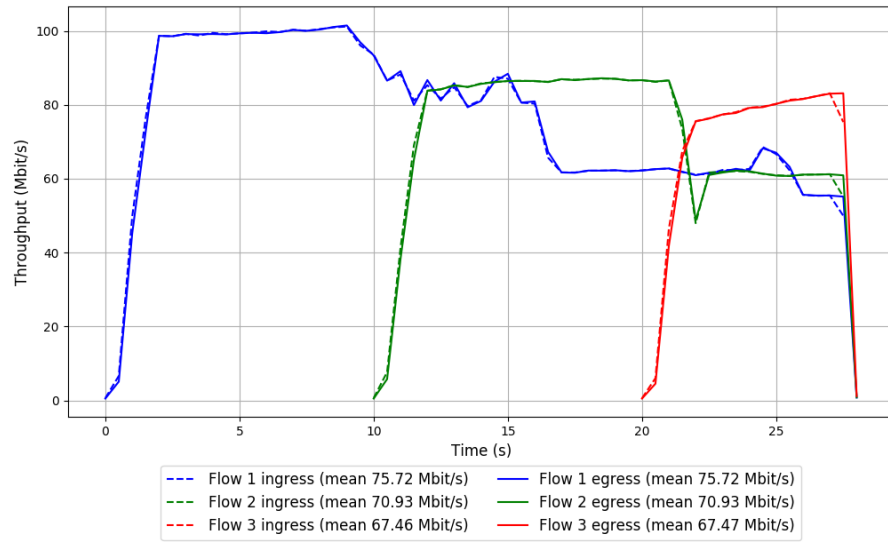
-- Flow 3:

Average throughput: 67.47 Mbit/s

95th percentile per-packet one-way delay: 53.439 ms

Loss rate: 0.00%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2017-11-21 22:54:48

End at: 2017-11-21 22:55:18

Below is generated by plot.py at 2017-11-22 01:19:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 132.77 Mbit/s

95th percentile per-packet one-way delay: 53.457 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 74.98 Mbit/s

95th percentile per-packet one-way delay: 53.331 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 58.64 Mbit/s

95th percentile per-packet one-way delay: 53.611 ms

Loss rate: 0.00%

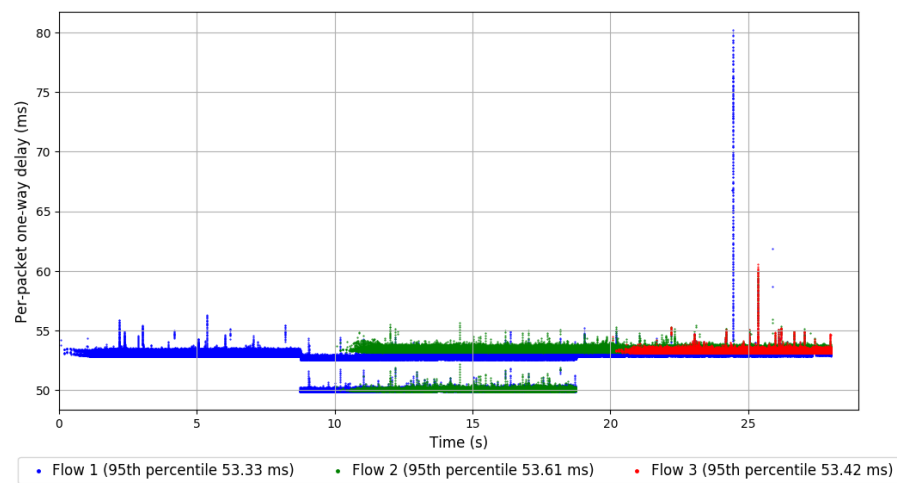
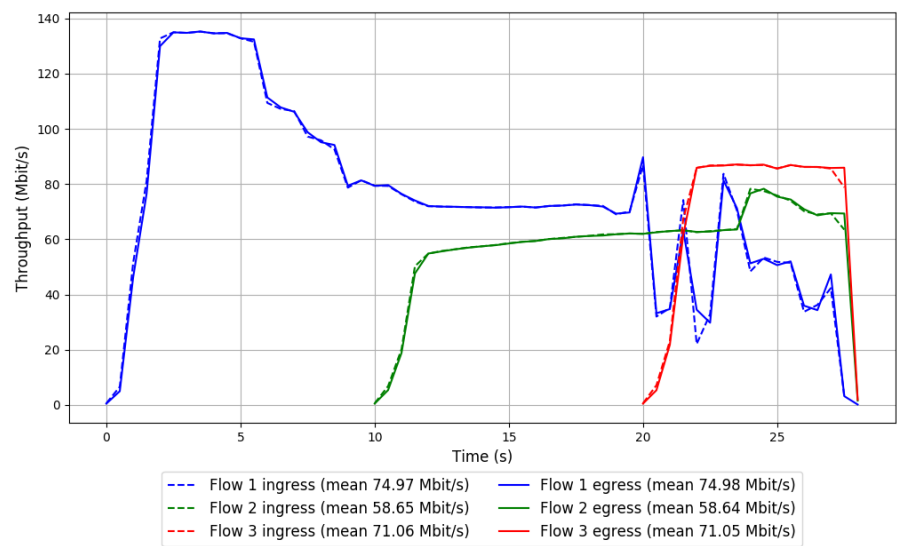
-- Flow 3:

Average throughput: 71.05 Mbit/s

95th percentile per-packet one-way delay: 53.420 ms

Loss rate: 0.00%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2017-11-21 23:06:33

End at: 2017-11-21 23:07:03

Below is generated by plot.py at 2017-11-22 01:20:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 146.96 Mbit/s

95th percentile per-packet one-way delay: 53.340 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 84.26 Mbit/s

95th percentile per-packet one-way delay: 53.284 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 71.94 Mbit/s

95th percentile per-packet one-way delay: 53.270 ms

Loss rate: 0.00%

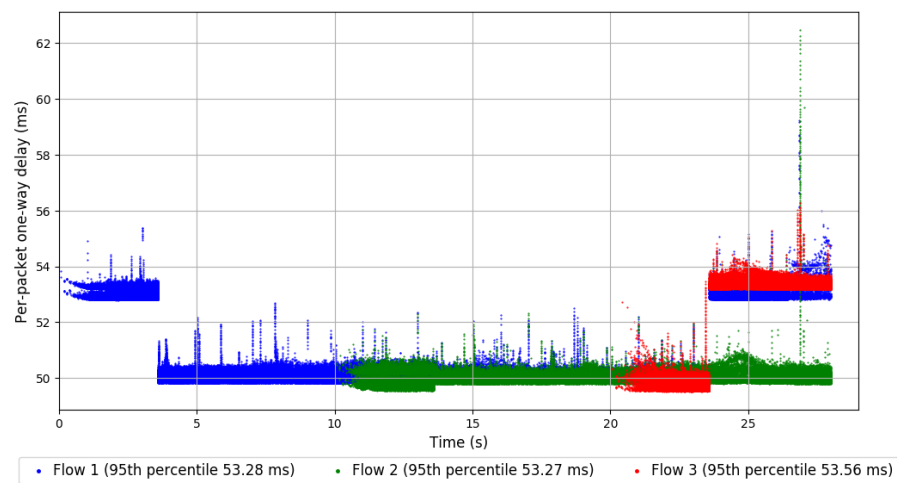
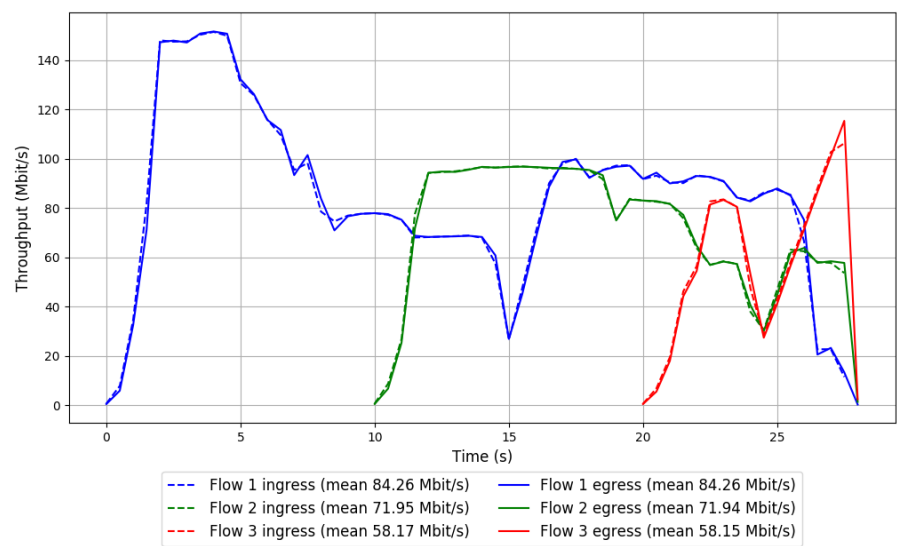
-- Flow 3:

Average throughput: 58.15 Mbit/s

95th percentile per-packet one-way delay: 53.565 ms

Loss rate: 0.00%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2017-11-21 23:18:40

End at: 2017-11-21 23:19:10

Below is generated by plot.py at 2017-11-22 01:20:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 159.66 Mbit/s

95th percentile per-packet one-way delay: 53.402 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 88.69 Mbit/s

95th percentile per-packet one-way delay: 53.400 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 81.17 Mbit/s

95th percentile per-packet one-way delay: 53.405 ms

Loss rate: 0.12%

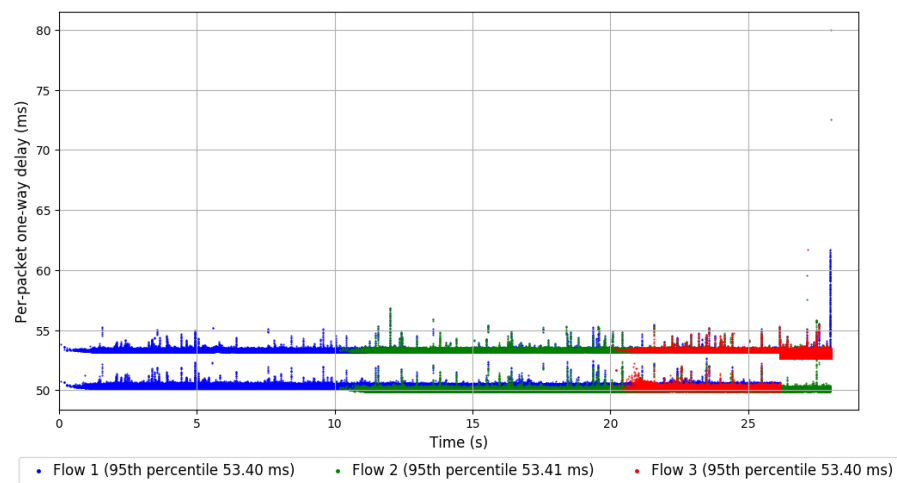
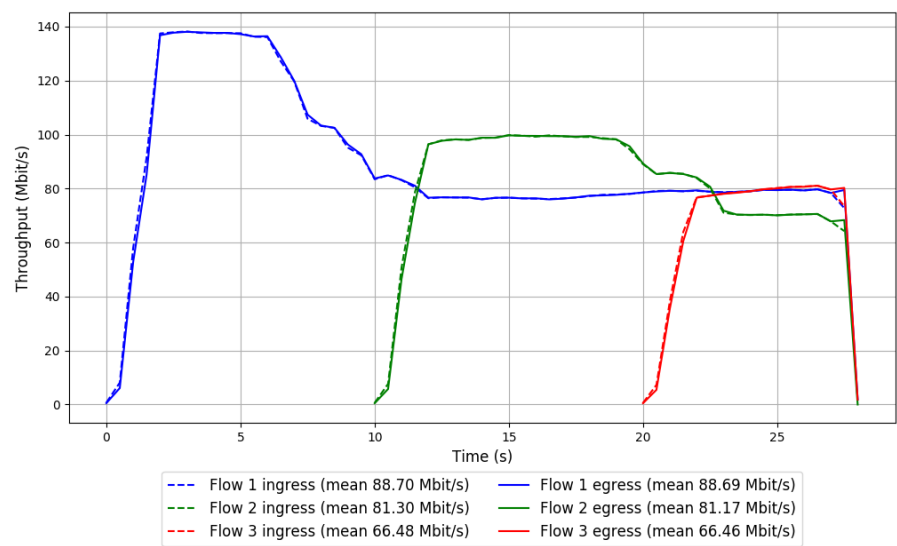
-- Flow 3:

Average throughput: 66.46 Mbit/s

95th percentile per-packet one-way delay: 53.401 ms

Loss rate: 0.00%

Run 10: Report of Copa — Data Link

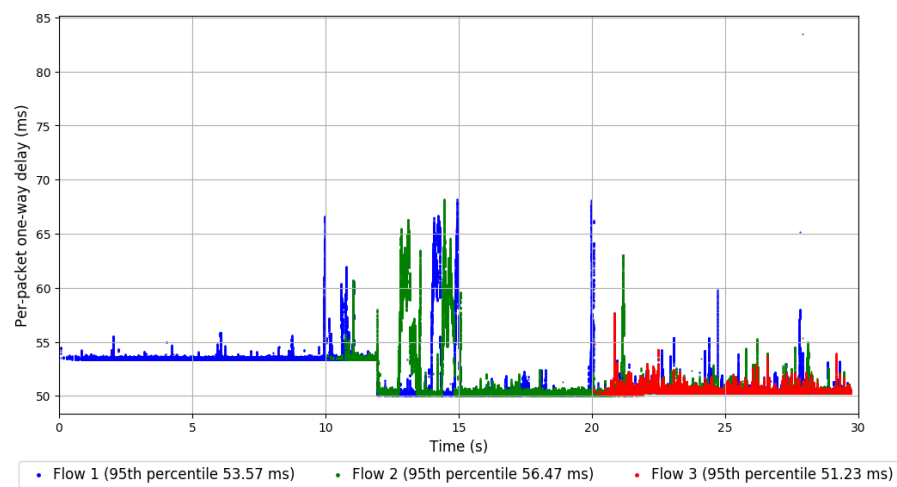
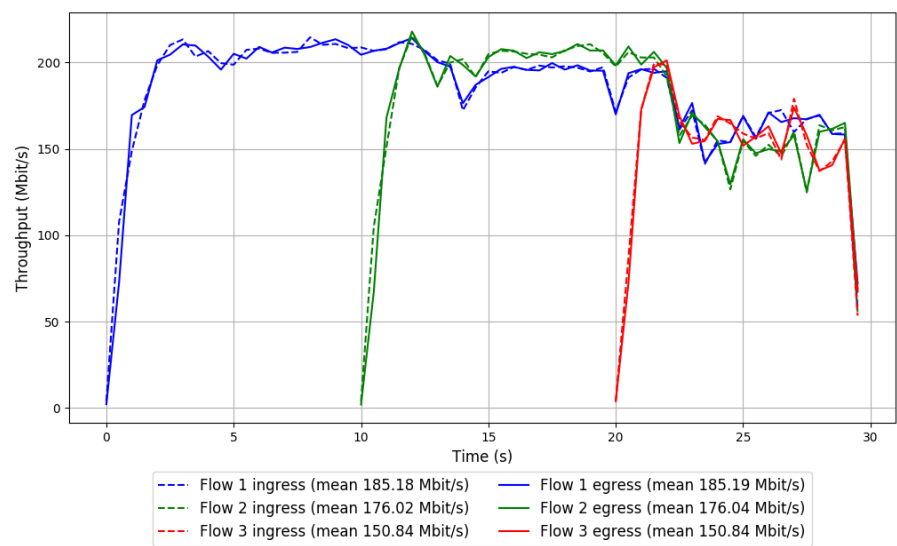


```
Run 1: Statistics of Indigo

Start at: 2017-11-21 21:38:16
End at: 2017-11-21 21:38:46

# Below is generated by plot.py at 2017-11-22 01:22:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 350.80 Mbit/s
95th percentile per-packet one-way delay: 53.627 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 185.19 Mbit/s
95th percentile per-packet one-way delay: 53.572 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 176.04 Mbit/s
95th percentile per-packet one-way delay: 56.474 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 150.84 Mbit/s
95th percentile per-packet one-way delay: 51.231 ms
Loss rate: 0.00%
```


Run 1: Report of Indigo — Data Link

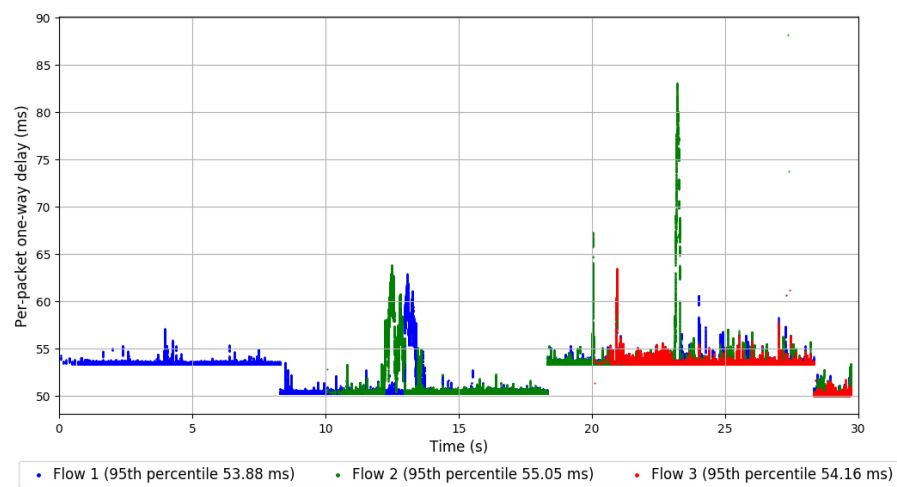
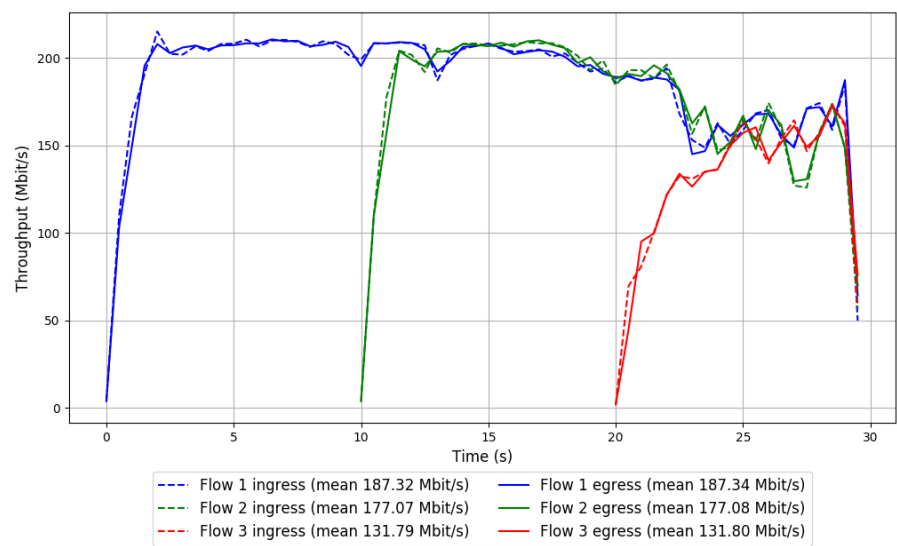


```
Run 2: Statistics of Indigo

Start at: 2017-11-21 21:50:30
End at: 2017-11-21 21:51:00

# Below is generated by plot.py at 2017-11-22 01:23:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 347.42 Mbit/s
95th percentile per-packet one-way delay: 54.210 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 187.34 Mbit/s
95th percentile per-packet one-way delay: 53.877 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 177.08 Mbit/s
95th percentile per-packet one-way delay: 55.050 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 131.80 Mbit/s
95th percentile per-packet one-way delay: 54.160 ms
Loss rate: 0.01%
```

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2017-11-21 22:02:29

End at: 2017-11-21 22:02:59

Below is generated by plot.py at 2017-11-22 01:23:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 325.92 Mbit/s

95th percentile per-packet one-way delay: 53.159 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 177.50 Mbit/s

95th percentile per-packet one-way delay: 53.240 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 169.02 Mbit/s

95th percentile per-packet one-way delay: 50.746 ms

Loss rate: 0.00%

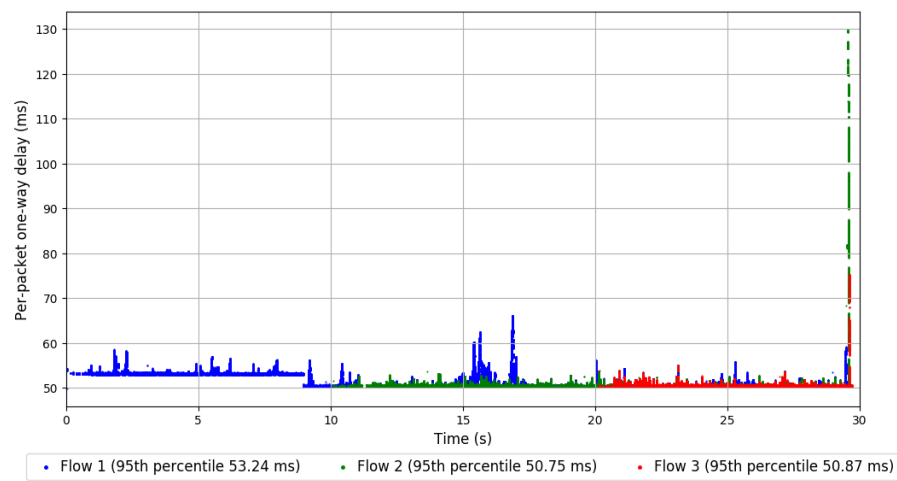
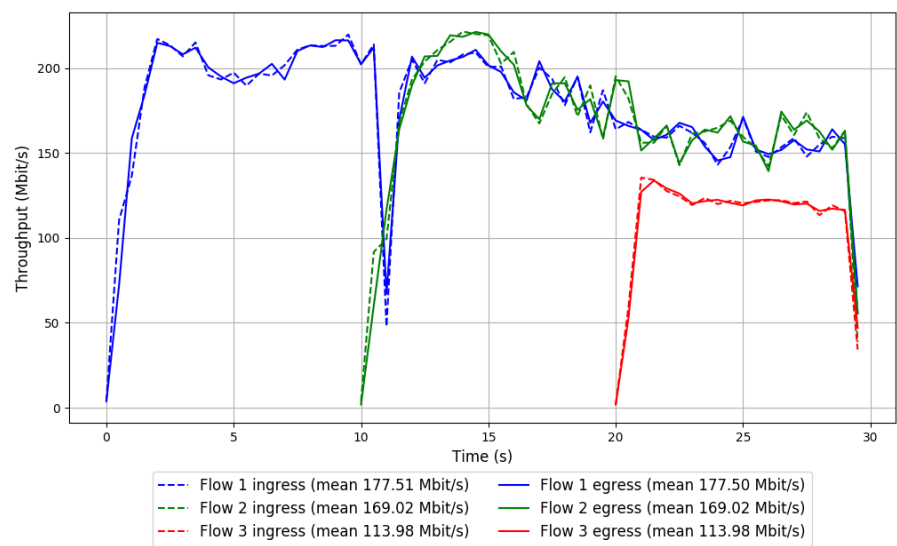
-- Flow 3:

Average throughput: 113.98 Mbit/s

95th percentile per-packet one-way delay: 50.872 ms

Loss rate: 0.01%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2017-11-21 22:14:32

End at: 2017-11-21 22:15:02

Below is generated by plot.py at 2017-11-22 01:24:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 349.39 Mbit/s

95th percentile per-packet one-way delay: 53.751 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 179.80 Mbit/s

95th percentile per-packet one-way delay: 53.571 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 179.78 Mbit/s

95th percentile per-packet one-way delay: 53.708 ms

Loss rate: 0.01%

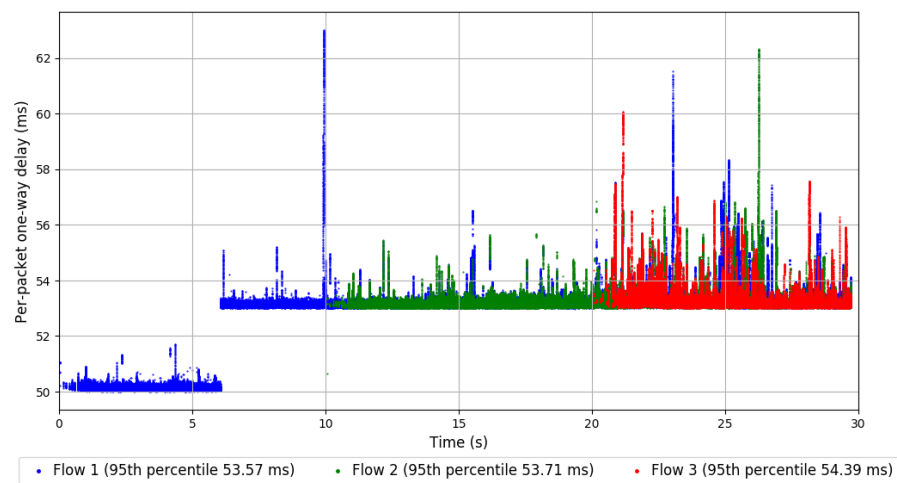
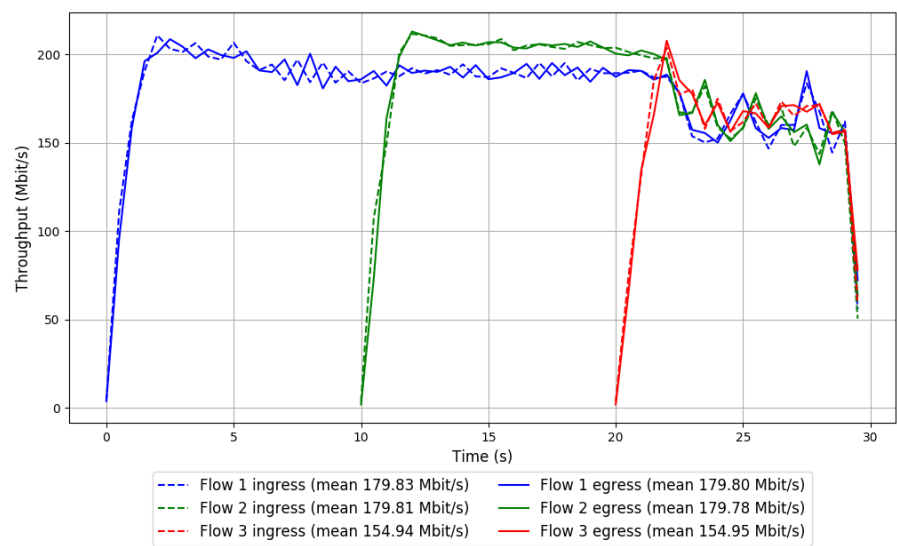
-- Flow 3:

Average throughput: 154.95 Mbit/s

95th percentile per-packet one-way delay: 54.388 ms

Loss rate: 0.00%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2017-11-21 22:26:49

End at: 2017-11-21 22:27:19

Below is generated by plot.py at 2017-11-22 01:25:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 337.72 Mbit/s

95th percentile per-packet one-way delay: 53.459 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 180.32 Mbit/s

95th percentile per-packet one-way delay: 53.493 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 168.66 Mbit/s

95th percentile per-packet one-way delay: 53.387 ms

Loss rate: 0.00%

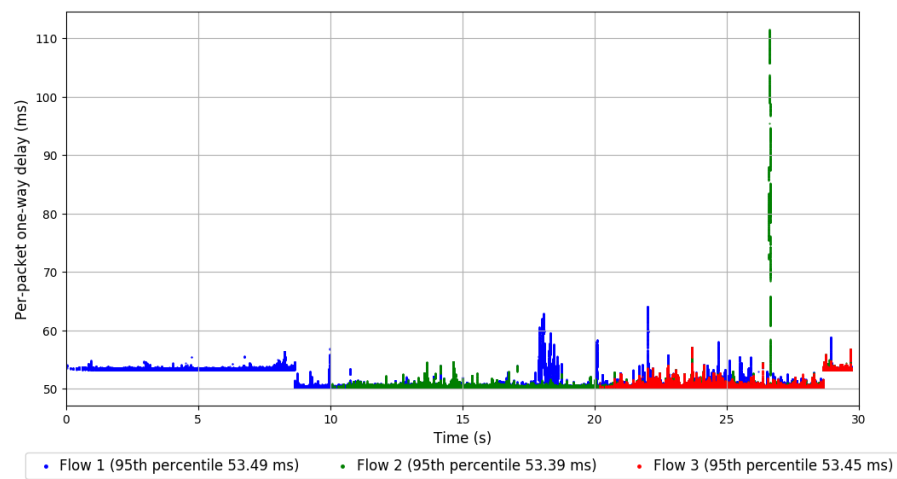
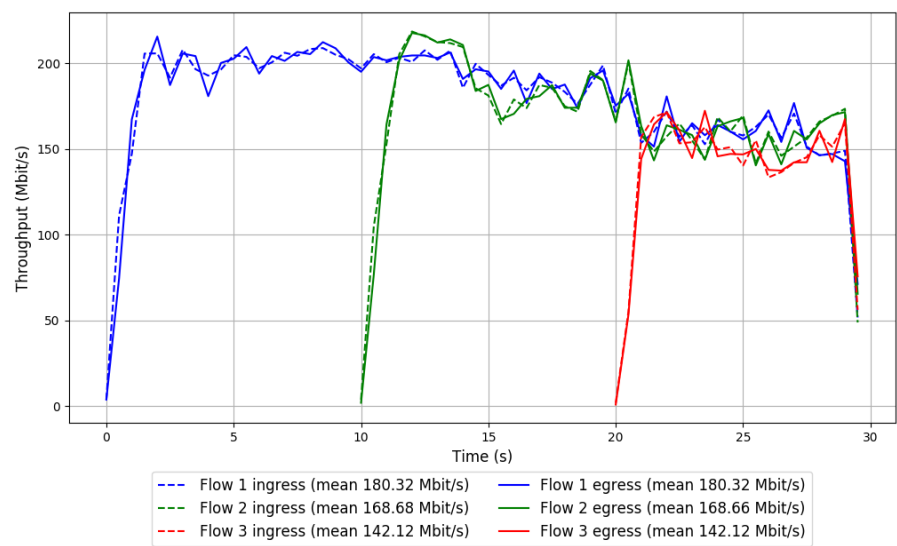
-- Flow 3:

Average throughput: 142.12 Mbit/s

95th percentile per-packet one-way delay: 53.451 ms

Loss rate: 0.00%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2017-11-21 22:39:04

End at: 2017-11-21 22:39:34

Below is generated by plot.py at 2017-11-22 01:25:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 268.80 Mbit/s

95th percentile per-packet one-way delay: 53.693 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 149.35 Mbit/s

95th percentile per-packet one-way delay: 53.669 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 127.78 Mbit/s

95th percentile per-packet one-way delay: 53.741 ms

Loss rate: 0.00%

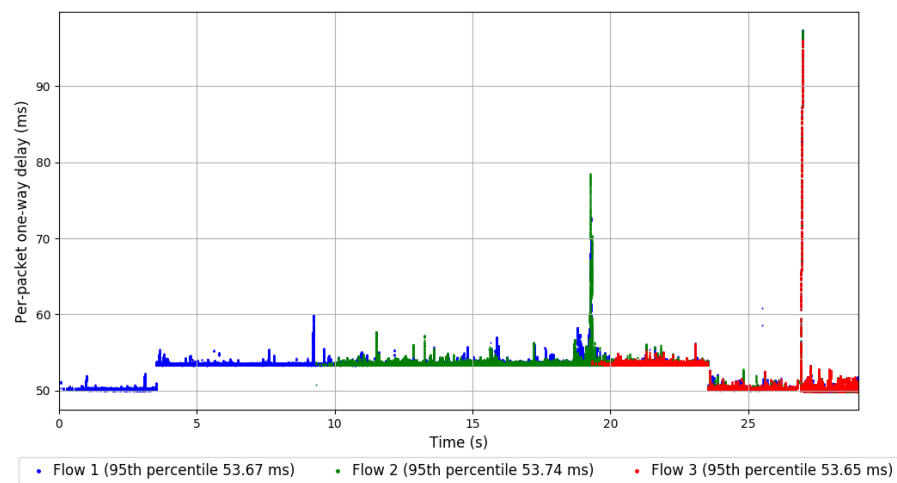
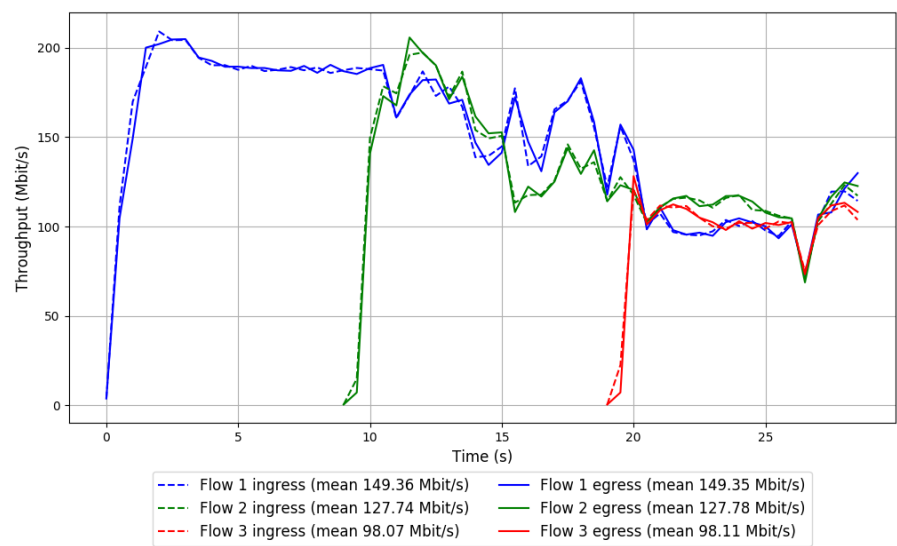
-- Flow 3:

Average throughput: 98.11 Mbit/s

95th percentile per-packet one-way delay: 53.651 ms

Loss rate: 0.00%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2017-11-21 22:51:05

End at: 2017-11-21 22:51:35

Below is generated by plot.py at 2017-11-22 01:25:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 344.35 Mbit/s

95th percentile per-packet one-way delay: 53.769 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 185.09 Mbit/s

95th percentile per-packet one-way delay: 53.656 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 168.18 Mbit/s

95th percentile per-packet one-way delay: 54.030 ms

Loss rate: 0.00%

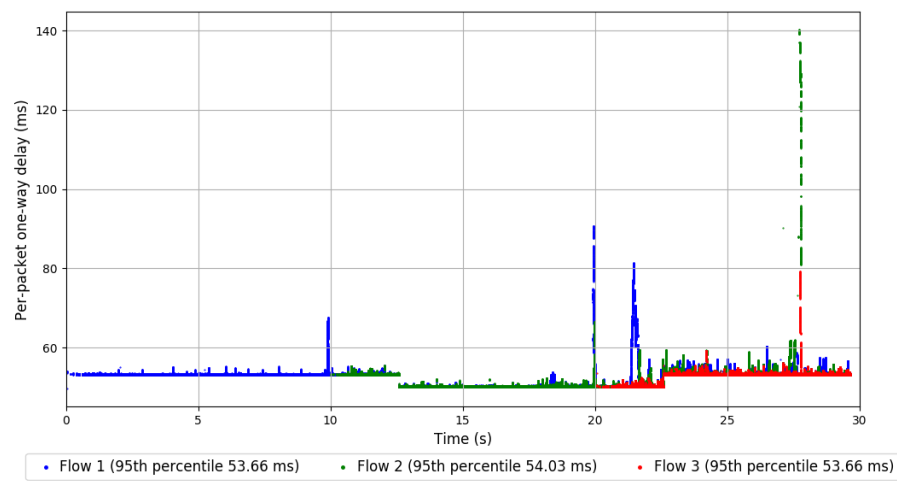
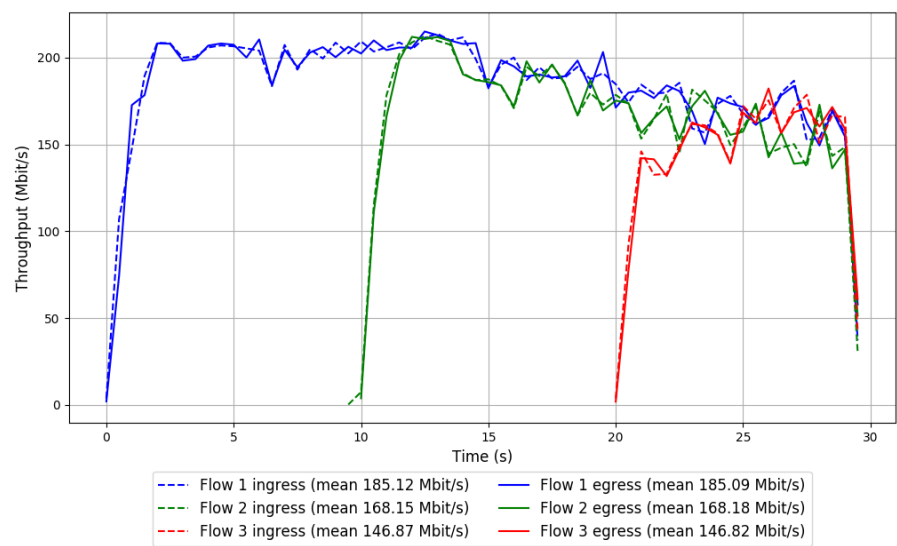
-- Flow 3:

Average throughput: 146.82 Mbit/s

95th percentile per-packet one-way delay: 53.662 ms

Loss rate: 0.01%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2017-11-21 23:02:50

End at: 2017-11-21 23:03:20

Below is generated by plot.py at 2017-11-22 01:26:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 360.32 Mbit/s

95th percentile per-packet one-way delay: 53.776 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 188.44 Mbit/s

95th percentile per-packet one-way delay: 53.598 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 181.49 Mbit/s

95th percentile per-packet one-way delay: 53.882 ms

Loss rate: 0.00%

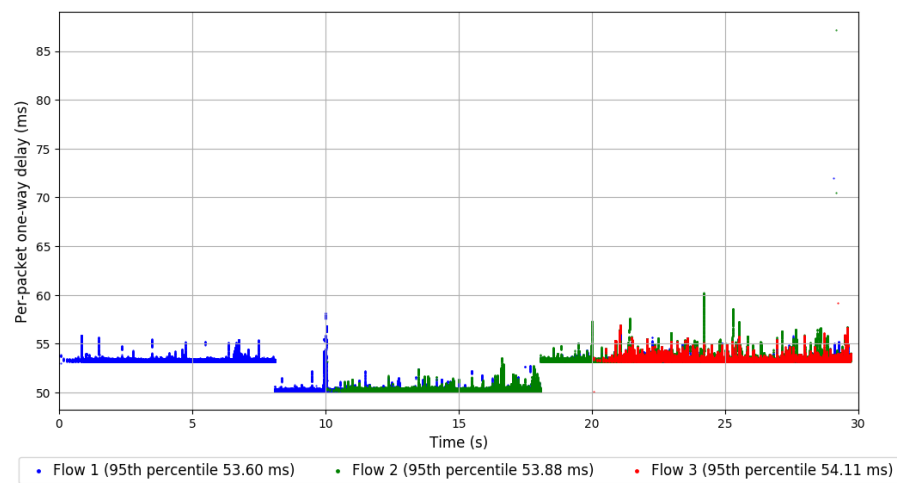
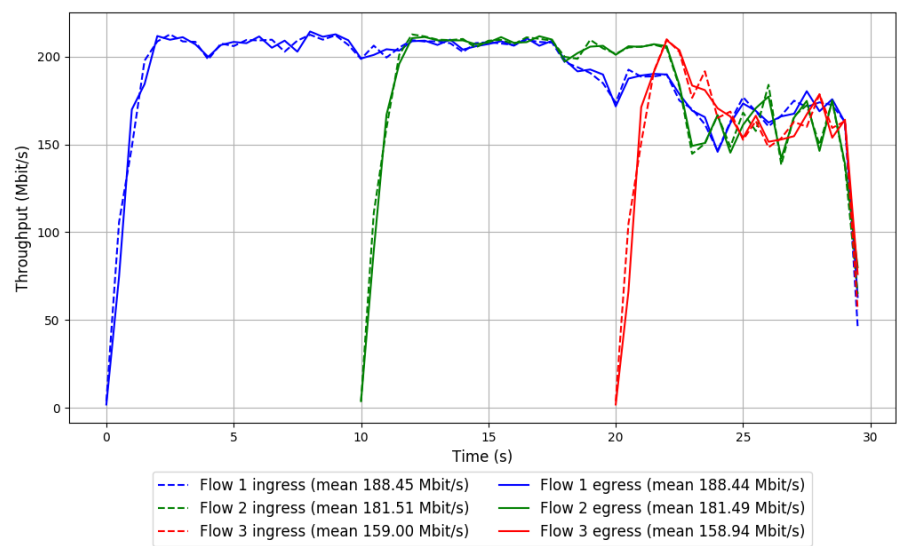
-- Flow 3:

Average throughput: 158.94 Mbit/s

95th percentile per-packet one-way delay: 54.112 ms

Loss rate: 0.00%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2017-11-21 23:14:59

End at: 2017-11-21 23:15:29

Below is generated by plot.py at 2017-11-22 01:28:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 337.41 Mbit/s

95th percentile per-packet one-way delay: 53.335 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 181.36 Mbit/s

95th percentile per-packet one-way delay: 53.374 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 168.25 Mbit/s

95th percentile per-packet one-way delay: 50.930 ms

Loss rate: 0.00%

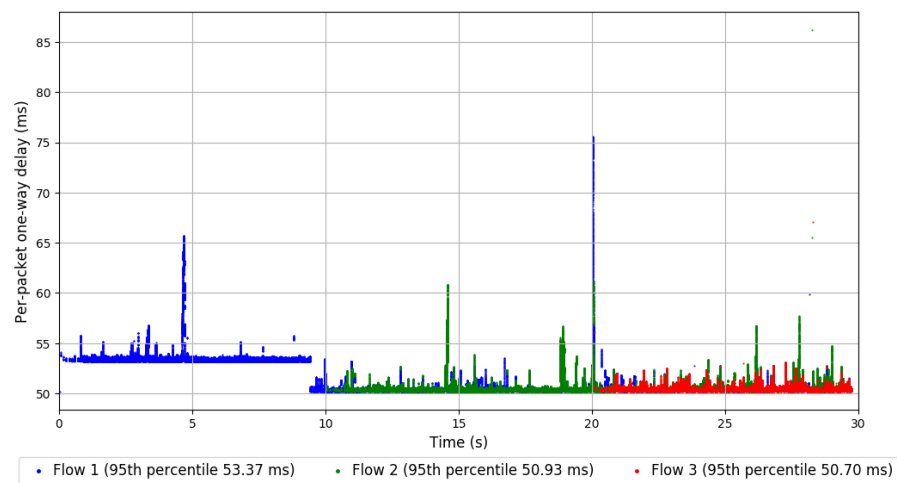
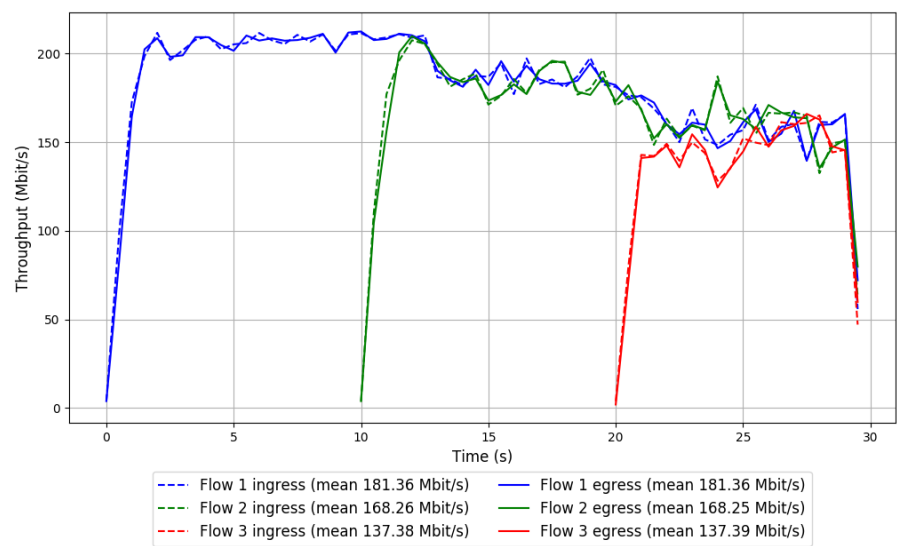
-- Flow 3:

Average throughput: 137.39 Mbit/s

95th percentile per-packet one-way delay: 50.699 ms

Loss rate: 0.00%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2017-11-21 23:26:56

End at: 2017-11-21 23:27:26

Below is generated by plot.py at 2017-11-22 01:29:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 360.08 Mbit/s

95th percentile per-packet one-way delay: 53.223 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 190.65 Mbit/s

95th percentile per-packet one-way delay: 53.191 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 179.88 Mbit/s

95th percentile per-packet one-way delay: 53.209 ms

Loss rate: 0.00%

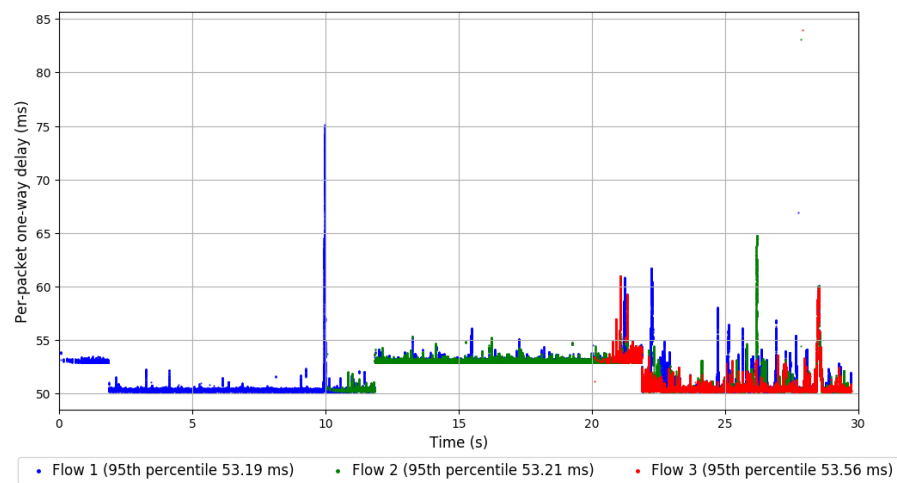
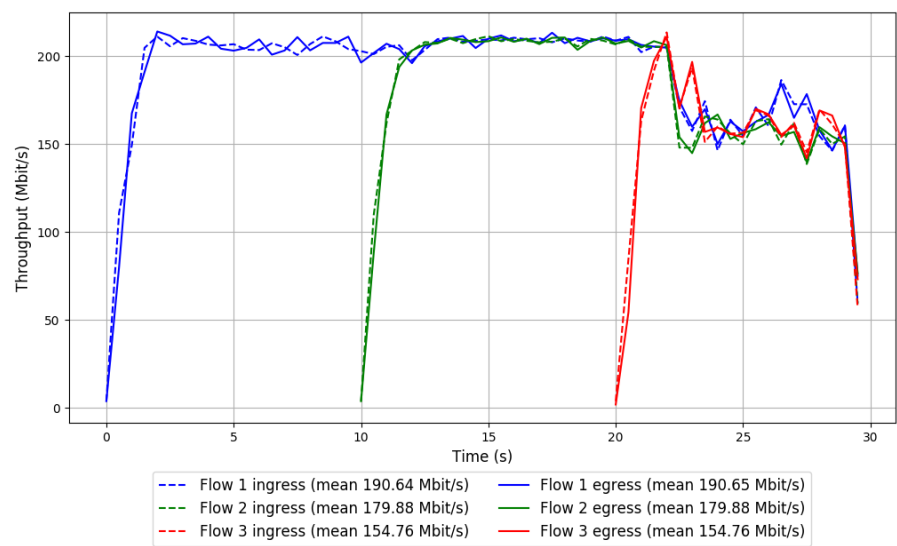
-- Flow 3:

Average throughput: 154.76 Mbit/s

95th percentile per-packet one-way delay: 53.560 ms

Loss rate: 0.01%

Run 10: Report of Indigo — Data Link

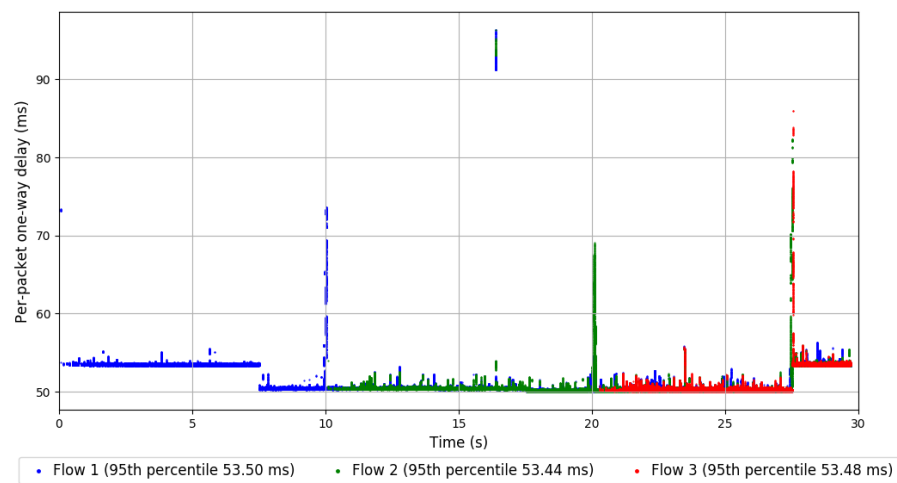
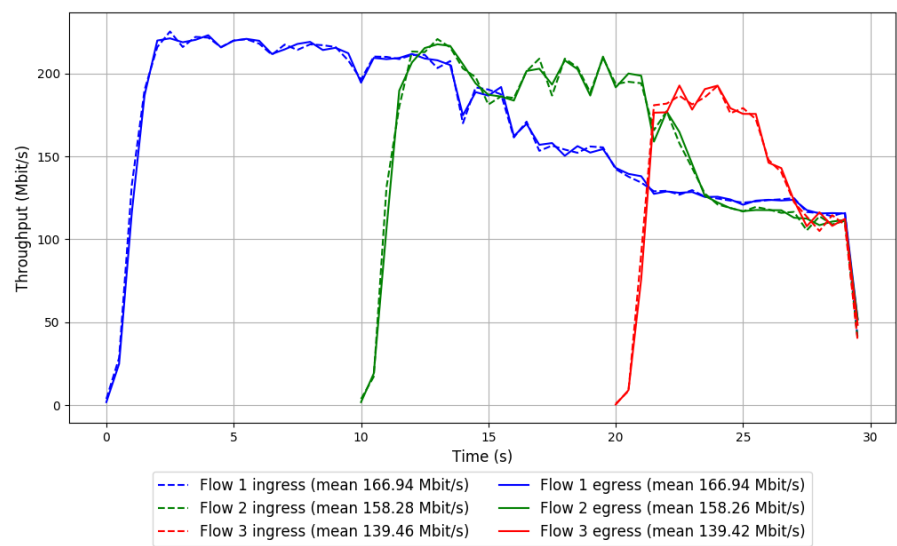


```
Run 1: Statistics of Indigo-calib

Start at: 2017-11-21 21:39:21
End at: 2017-11-21 21:39:51

# Below is generated by plot.py at 2017-11-22 01:29:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 315.91 Mbit/s
95th percentile per-packet one-way delay: 53.484 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 166.94 Mbit/s
95th percentile per-packet one-way delay: 53.499 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 158.26 Mbit/s
95th percentile per-packet one-way delay: 53.440 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 139.42 Mbit/s
95th percentile per-packet one-way delay: 53.477 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo-calib — Data Link

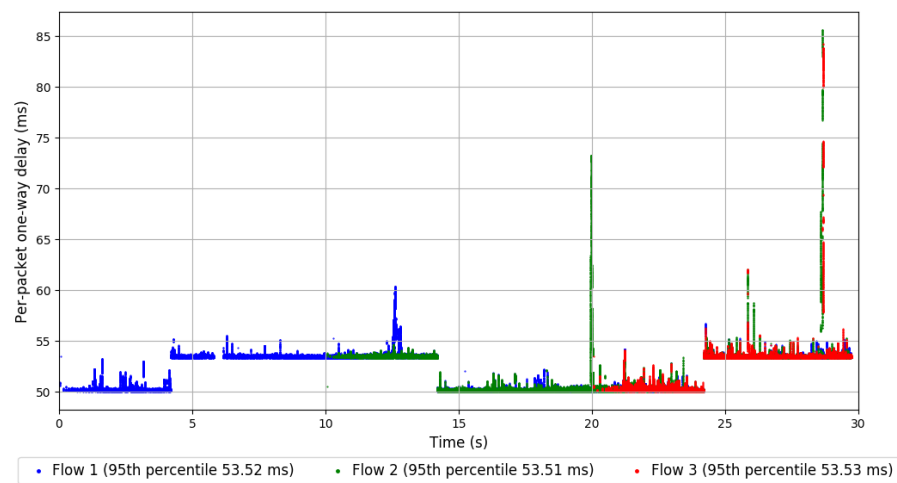
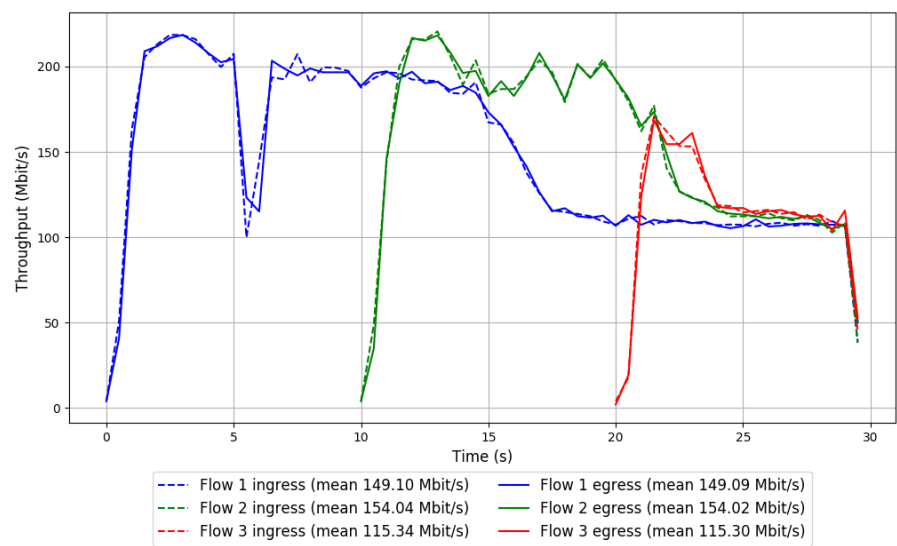


```
Run 2: Statistics of Indigo-calib

Start at: 2017-11-21 21:51:34
End at: 2017-11-21 21:52:04

# Below is generated by plot.py at 2017-11-22 01:29:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 288.66 Mbit/s
95th percentile per-packet one-way delay: 53.517 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 149.09 Mbit/s
95th percentile per-packet one-way delay: 53.520 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 154.02 Mbit/s
95th percentile per-packet one-way delay: 53.506 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 115.30 Mbit/s
95th percentile per-packet one-way delay: 53.529 ms
Loss rate: 0.00%
```

Run 2: Report of Indigo-calib — Data Link

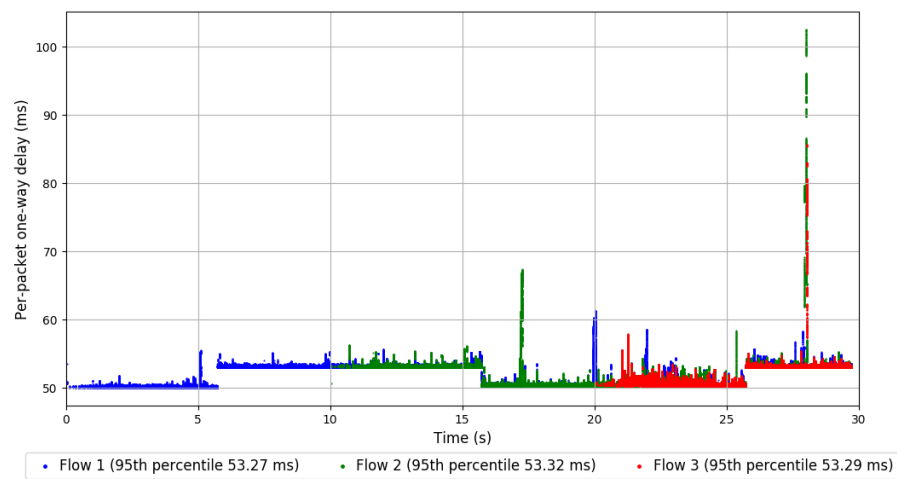
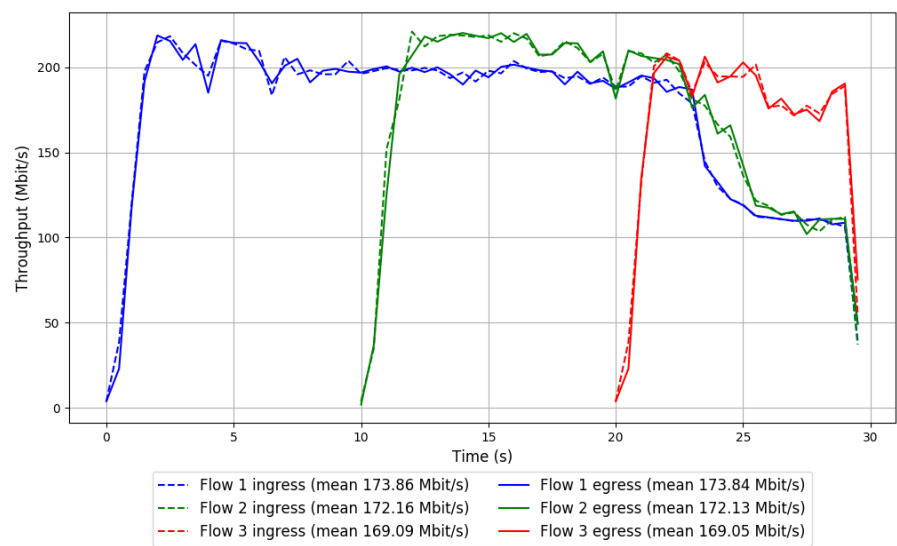


```
Run 3: Statistics of Indigo-calib

Start at: 2017-11-21 22:03:32
End at: 2017-11-21 22:04:02

# Below is generated by plot.py at 2017-11-22 01:30:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 342.96 Mbit/s
95th percentile per-packet one-way delay: 53.289 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 173.84 Mbit/s
95th percentile per-packet one-way delay: 53.270 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 172.13 Mbit/s
95th percentile per-packet one-way delay: 53.320 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 169.05 Mbit/s
95th percentile per-packet one-way delay: 53.289 ms
Loss rate: 0.00%
```


Run 3: Report of Indigo-calib — Data Link

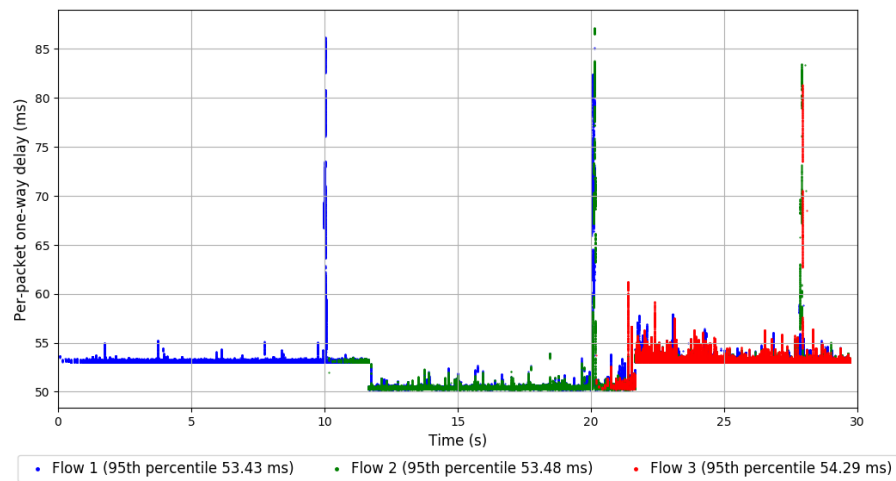
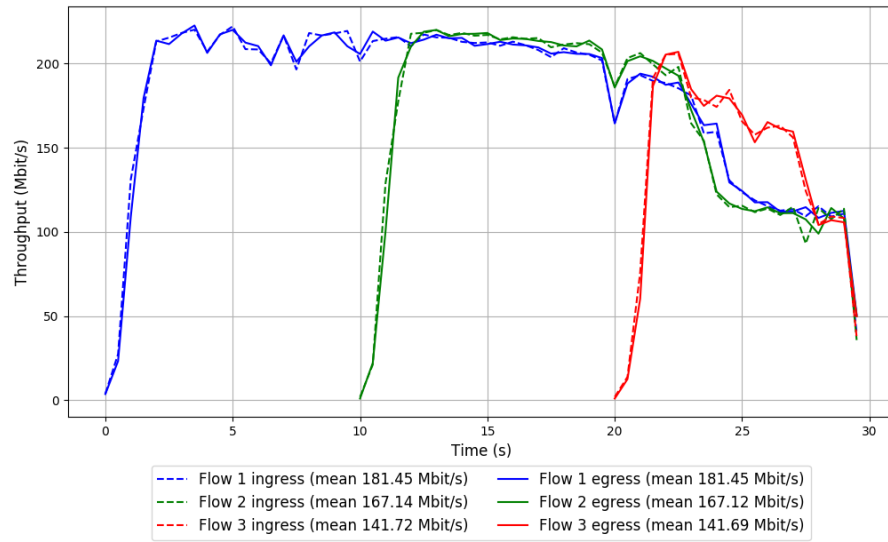


```
Run 4: Statistics of Indigo-calib

Start at: 2017-11-21 22:15:36
End at: 2017-11-21 22:16:06

# Below is generated by plot.py at 2017-11-22 01:30:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 337.00 Mbit/s
95th percentile per-packet one-way delay: 53.603 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 181.45 Mbit/s
95th percentile per-packet one-way delay: 53.426 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 167.12 Mbit/s
95th percentile per-packet one-way delay: 53.480 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 141.69 Mbit/s
95th percentile per-packet one-way delay: 54.293 ms
Loss rate: 0.00%
```

Run 4: Report of Indigo-calib — Data Link

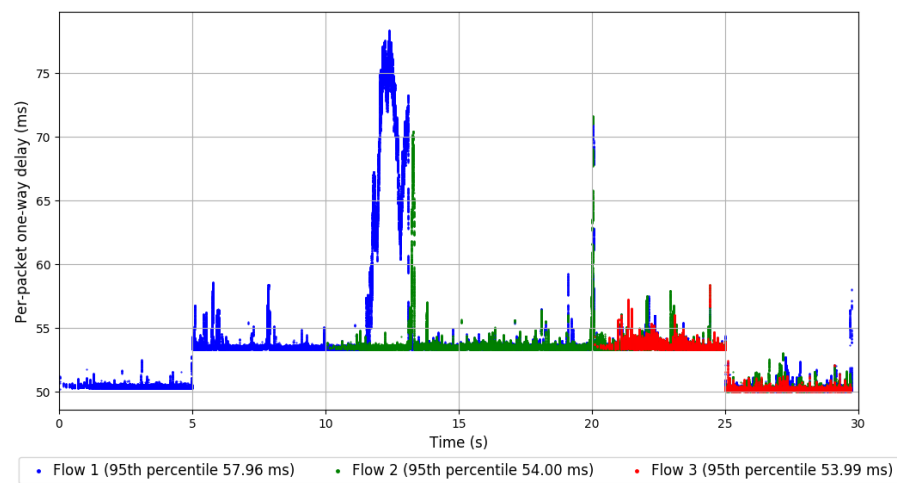
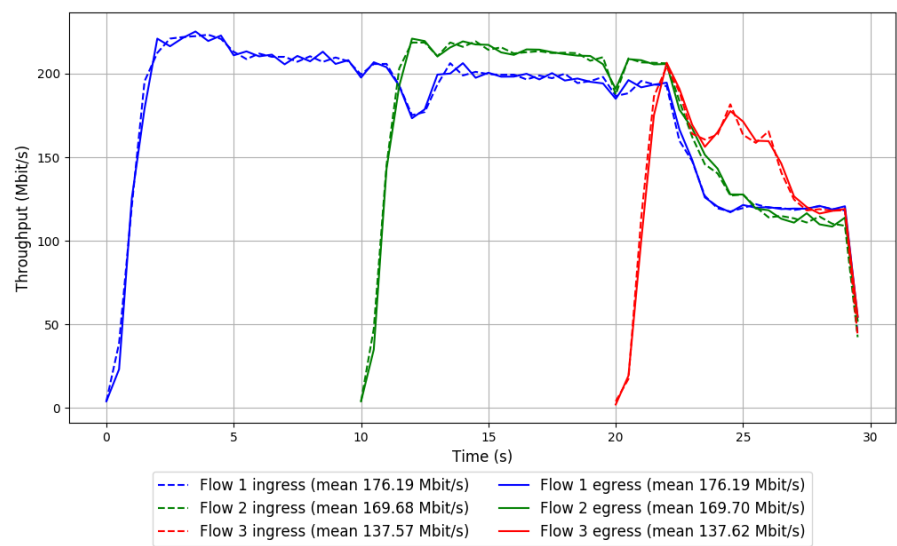


```
Run 5: Statistics of Indigo-calib

Start at: 2017-11-21 22:27:53
End at: 2017-11-21 22:28:23

# Below is generated by plot.py at 2017-11-22 01:31:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 333.34 Mbit/s
95th percentile per-packet one-way delay: 54.507 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 176.19 Mbit/s
95th percentile per-packet one-way delay: 57.963 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 169.70 Mbit/s
95th percentile per-packet one-way delay: 54.004 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 137.62 Mbit/s
95th percentile per-packet one-way delay: 53.991 ms
Loss rate: 0.00%
```

Run 5: Report of Indigo-calib — Data Link

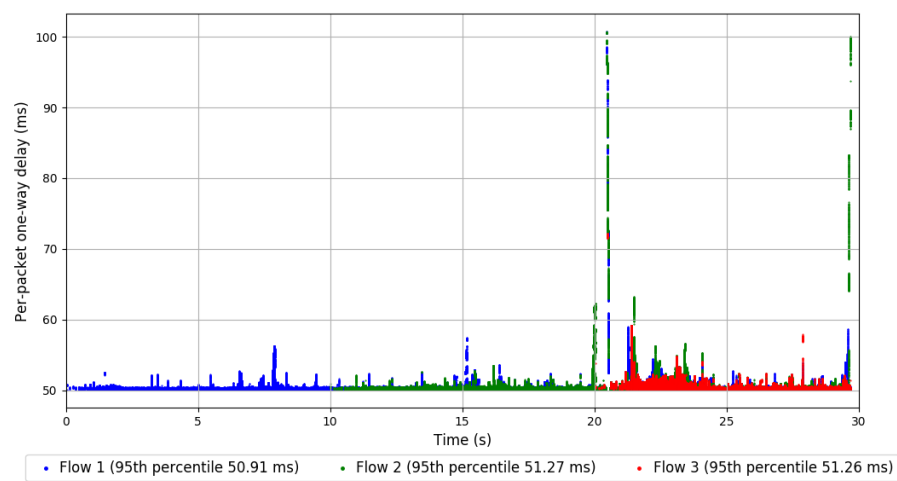
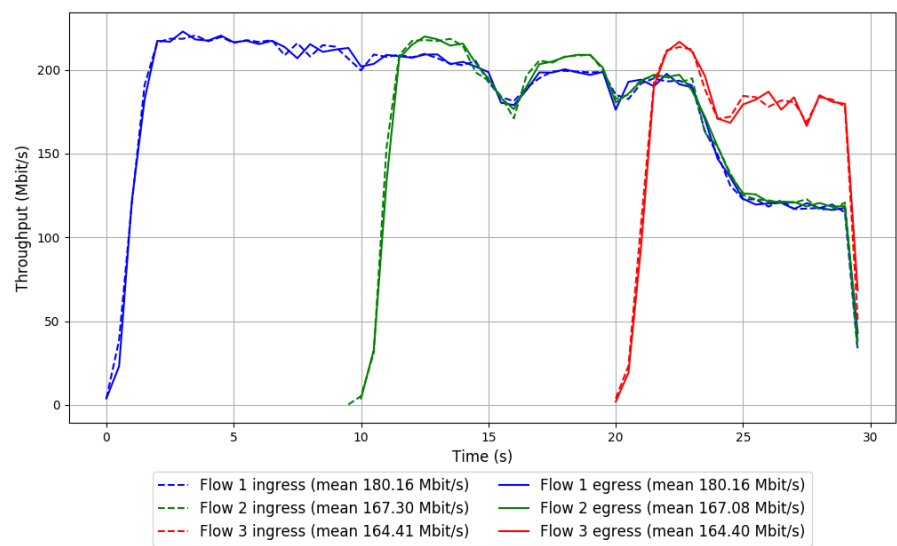


```
Run 6: Statistics of Indigo-calib

Start at: 2017-11-21 22:40:02
End at: 2017-11-21 22:40:32

# Below is generated by plot.py at 2017-11-22 01:31:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 344.42 Mbit/s
95th percentile per-packet one-way delay: 51.104 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 180.16 Mbit/s
95th percentile per-packet one-way delay: 50.911 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 167.08 Mbit/s
95th percentile per-packet one-way delay: 51.269 ms
Loss rate: 0.11%
-- Flow 3:
Average throughput: 164.40 Mbit/s
95th percentile per-packet one-way delay: 51.264 ms
Loss rate: 0.00%
```

Run 6: Report of Indigo-calib — Data Link



Run 7: Statistics of Indigo-calib

Start at: 2017-11-21 22:52:09

End at: 2017-11-21 22:52:39

Below is generated by plot.py at 2017-11-22 01:32:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 331.35 Mbit/s

95th percentile per-packet one-way delay: 52.927 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 173.38 Mbit/s

95th percentile per-packet one-way delay: 50.904 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 171.12 Mbit/s

95th percentile per-packet one-way delay: 54.060 ms

Loss rate: 0.00%

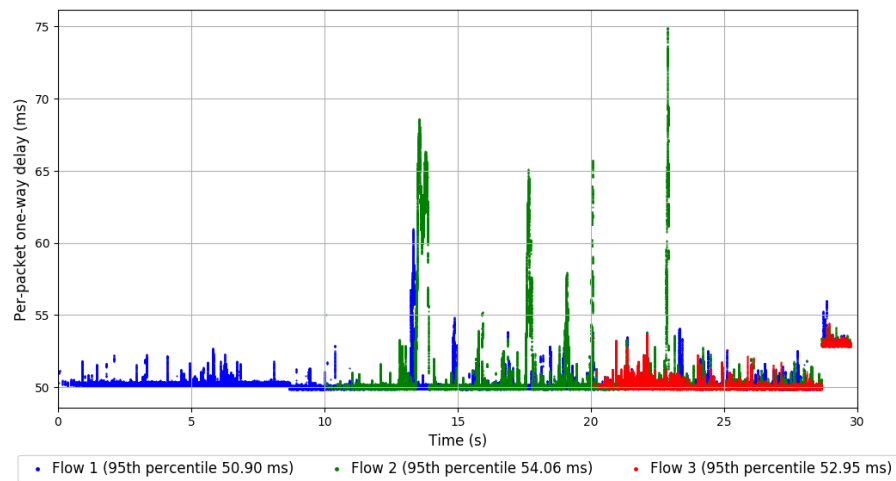
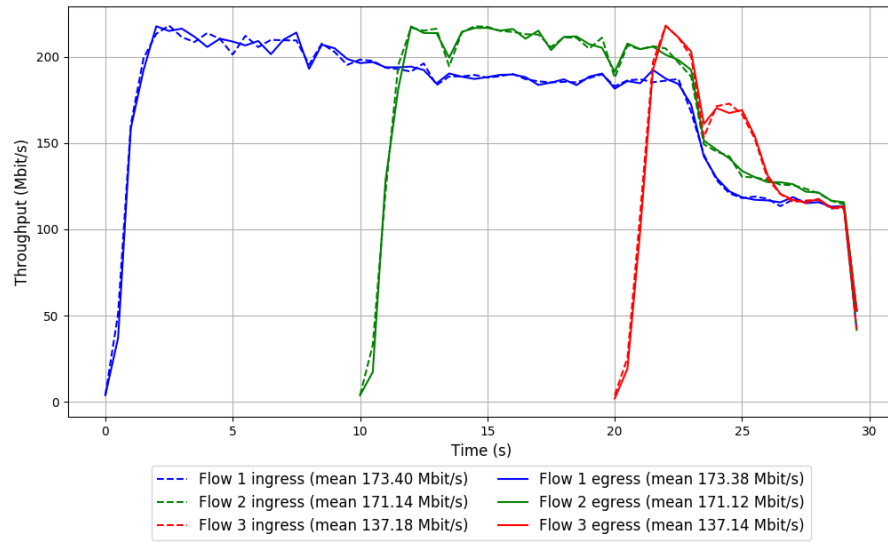
-- Flow 3:

Average throughput: 137.14 Mbit/s

95th percentile per-packet one-way delay: 52.949 ms

Loss rate: 0.00%

Run 7: Report of Indigo-calib — Data Link

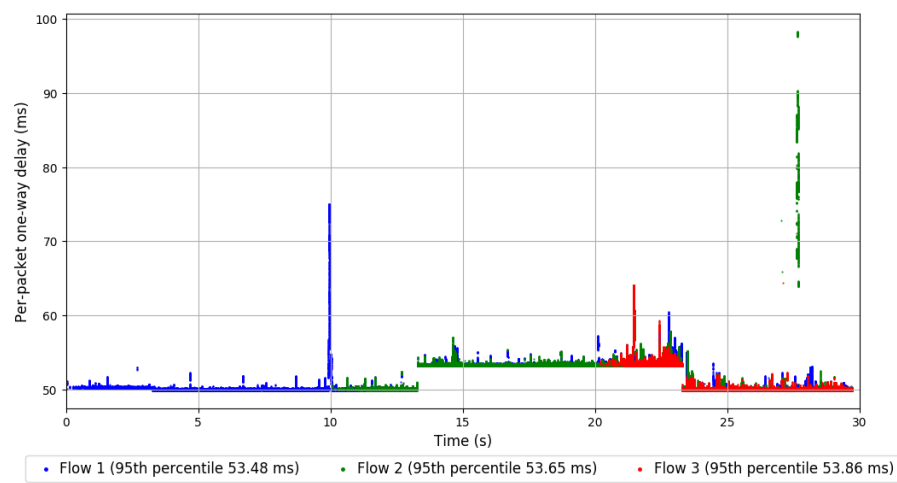
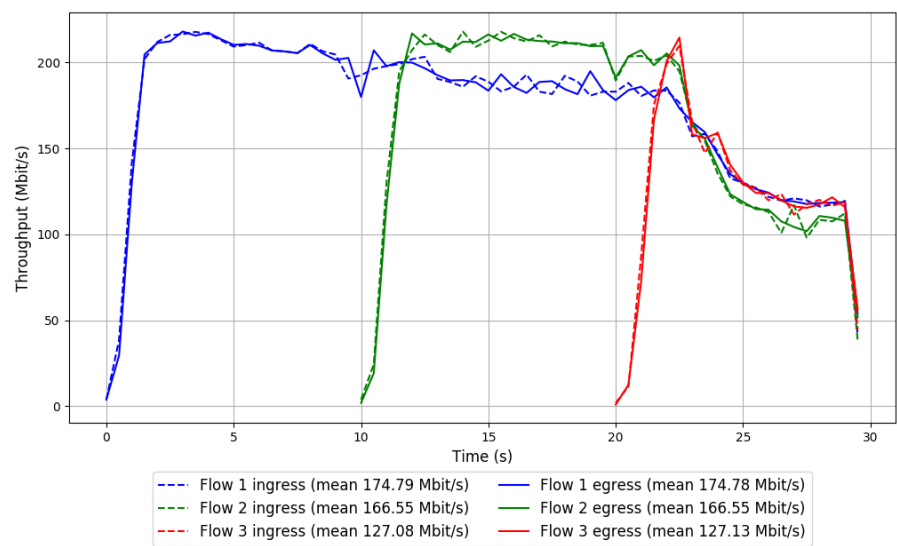


```
Run 8: Statistics of Indigo-calib

Start at: 2017-11-21 23:03:55
End at: 2017-11-21 23:04:25

# Below is generated by plot.py at 2017-11-22 01:32:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 325.92 Mbit/s
95th percentile per-packet one-way delay: 53.587 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 174.78 Mbit/s
95th percentile per-packet one-way delay: 53.478 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 166.55 Mbit/s
95th percentile per-packet one-way delay: 53.654 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 127.13 Mbit/s
95th percentile per-packet one-way delay: 53.862 ms
Loss rate: 0.00%
```

Run 8: Report of Indigo-calib — Data Link

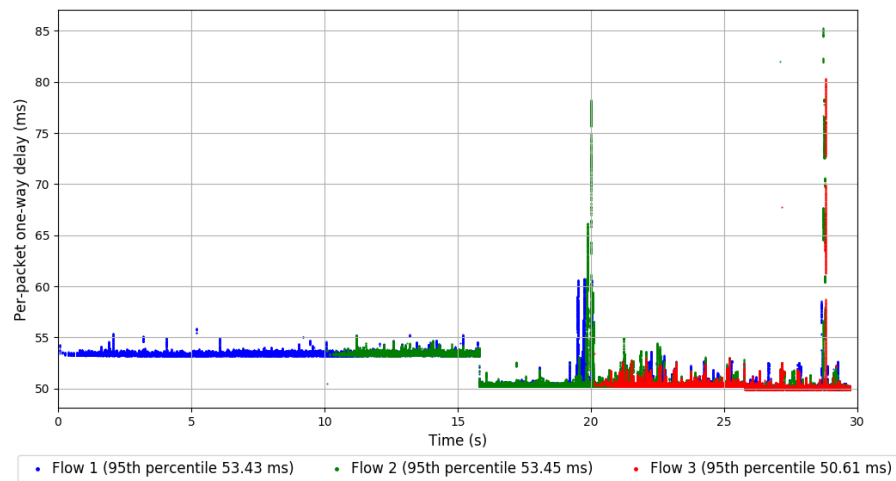
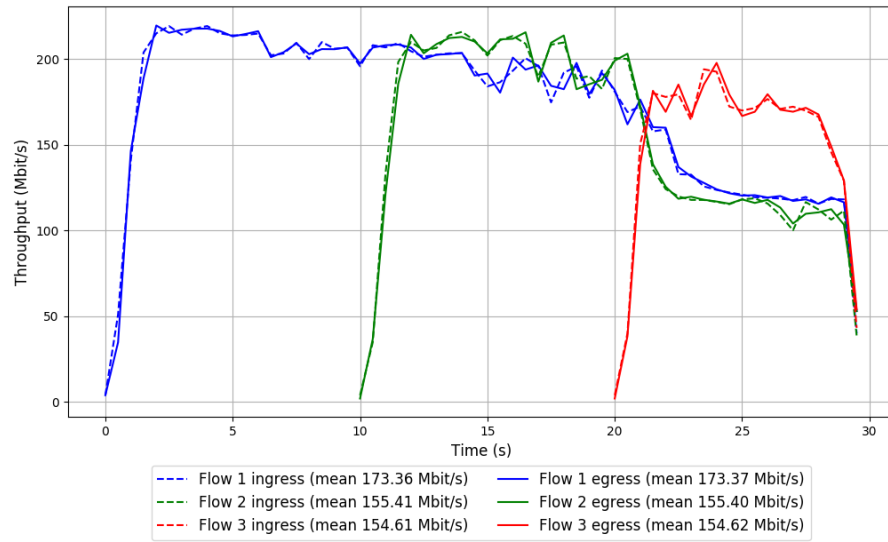


```
Run 9: Statistics of Indigo-calib

Start at: 2017-11-21 23:16:02
End at: 2017-11-21 23:16:32

# Below is generated by plot.py at 2017-11-22 01:32:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 326.28 Mbit/s
95th percentile per-packet one-way delay: 53.419 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 173.37 Mbit/s
95th percentile per-packet one-way delay: 53.434 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 155.40 Mbit/s
95th percentile per-packet one-way delay: 53.450 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 154.62 Mbit/s
95th percentile per-packet one-way delay: 50.606 ms
Loss rate: 0.00%
```

Run 9: Report of Indigo-calib — Data Link



Run 10: Statistics of Indigo-calib

Start at: 2017-11-21 23:28:01

End at: 2017-11-21 23:28:31

Below is generated by plot.py at 2017-11-22 01:32:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 334.77 Mbit/s

95th percentile per-packet one-way delay: 53.308 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 173.24 Mbit/s

95th percentile per-packet one-way delay: 53.193 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 166.78 Mbit/s

95th percentile per-packet one-way delay: 53.400 ms

Loss rate: 0.00%

-- Flow 3:

Average throughput: 159.80 Mbit/s

95th percentile per-packet one-way delay: 53.501 ms

Loss rate: 0.00%

Run 10: Report of Indigo-calib — Data Link

