

Pantheon Report

Generated at 2017-10-12 17:30:01 (UTC).

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

Repeated the test of 14 congestion control schemes 10 times.

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

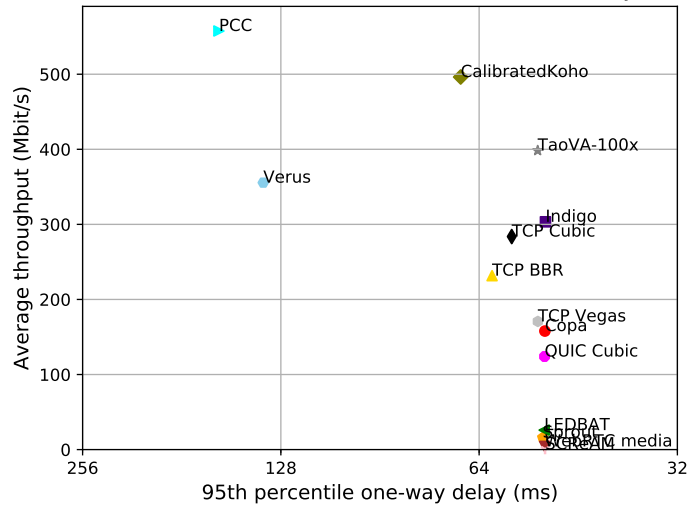
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

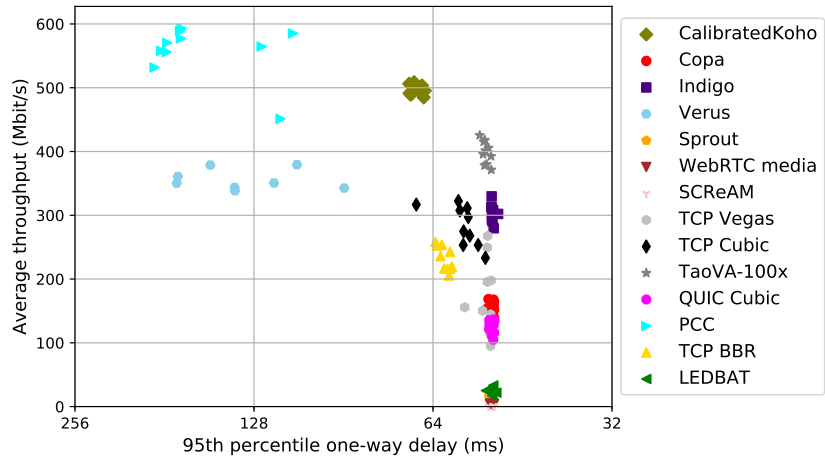
Git summary:

```
branch: indigos @ 45998d6404be7c5106956530acb9cfc43bd06e7d
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
M datagrump/sender.cc
third_party/genericCC @ f7ca42f251bf49b432bb71de6d13fa903515c366
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 @ 03455460fd1a8ffbdad86fab936fdca204b80db
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-quick @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eaaeb30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/webRTC @ a488197ddd041ace68a42849b2540ad834825f42
```

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



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



scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	10	114.49	115.66	121.80	60.86	60.91	62.08	0.02	0.01	0.03
TCP Cubic	10	159.50	126.24	121.40	56.70	56.58	58.65	0.00	0.02	0.01
LEDBAT	10	12.30	15.63	9.86	50.98	50.97	50.95	0.01	0.01	0.00
PCC	10	522.18	40.87	25.04	158.80	159.14	150.33	1.30	1.57	2.06
QUIC Cubic	10	64.35	59.91	60.73	50.54	50.60	50.44	0.00	0.00	0.11
SCReAM	10	0.22	0.22	0.22	50.23	50.40	50.49	0.00	0.00	0.00
WebRTC media	10	2.20	1.44	0.60	50.61	50.46	50.71	0.00	0.02	0.00
Sprout	8	7.96	7.89	7.61	51.29	51.27	51.24	0.01	0.02	0.00
TaoVA-100x	10	227.05	206.15	138.20	51.50	52.53	52.93	0.00	0.00	0.01
TCP Vegas	10	84.57	85.44	87.00	51.85	52.15	52.50	0.00	0.00	0.00
Verus	8	220.29	123.53	141.05	135.83	123.26	136.47	0.16	0.46	0.74
Copa	10	84.00	78.70	82.32	50.70	50.71	50.65	0.00	0.00	0.00
CalibratedKoho	10	348.02	217.09	11.17	67.48	70.06	65.73	0.02	0.08	0.22
Indigo	10	165.65	149.75	112.70	50.62	50.89	50.95	0.00	0.00	0.00

Run 1: Statistics of TCP BBR

Start at: 2017-10-12 12:25:07

End at: 2017-10-12 12:25:37

Below is generated by plot.py at 2017-10-12 16:12:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 216.15 Mbit/s

95th percentile per-packet one-way delay: 59.843 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 109.21 Mbit/s

95th percentile per-packet one-way delay: 59.354 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 106.18 Mbit/s

95th percentile per-packet one-way delay: 59.762 ms

Loss rate: 0.00%

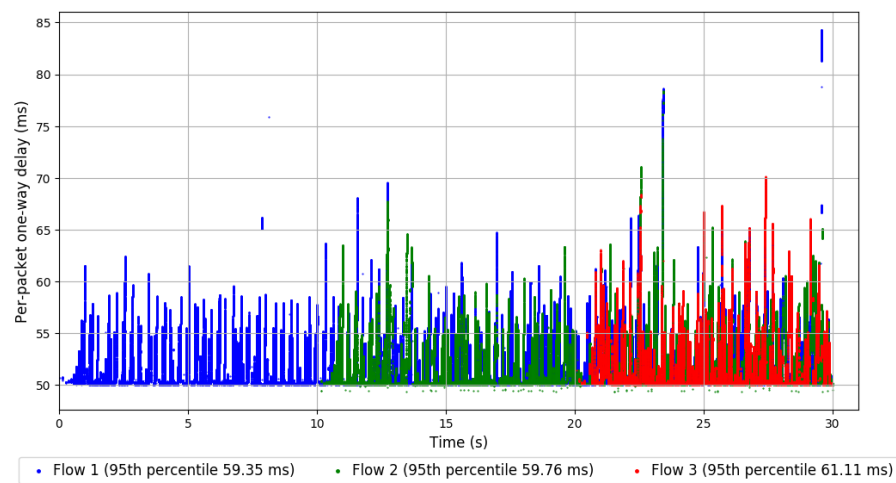
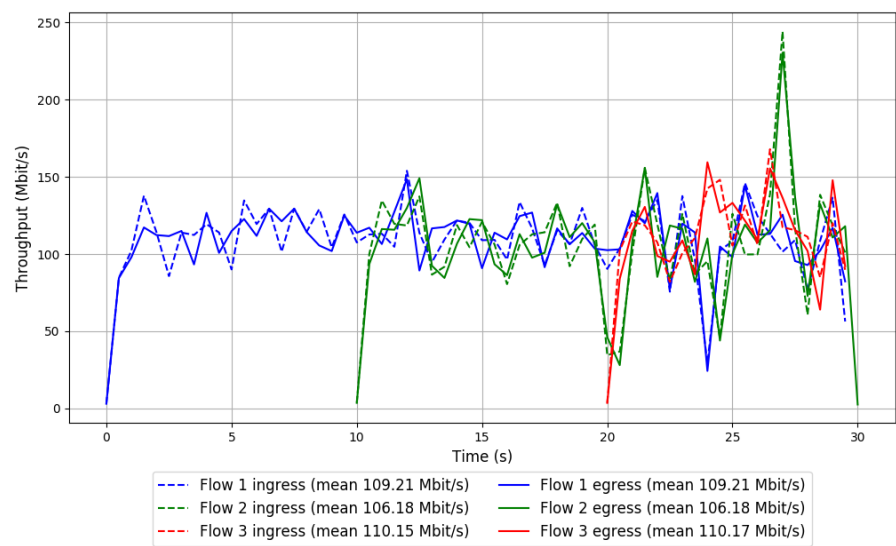
-- Flow 3:

Average throughput: 110.17 Mbit/s

95th percentile per-packet one-way delay: 61.107 ms

Loss rate: 0.00%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2017-10-12 12:37:37

End at: 2017-10-12 12:38:07

Below is generated by plot.py at 2017-10-12 16:12:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 235.80 Mbit/s

95th percentile per-packet one-way delay: 62.163 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 106.65 Mbit/s

95th percentile per-packet one-way delay: 61.425 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 104.93 Mbit/s

95th percentile per-packet one-way delay: 60.571 ms

Loss rate: 0.01%

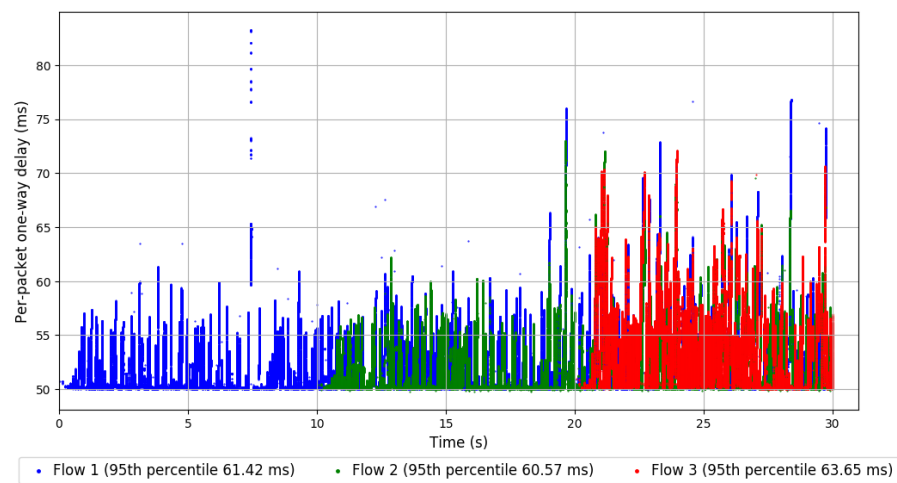
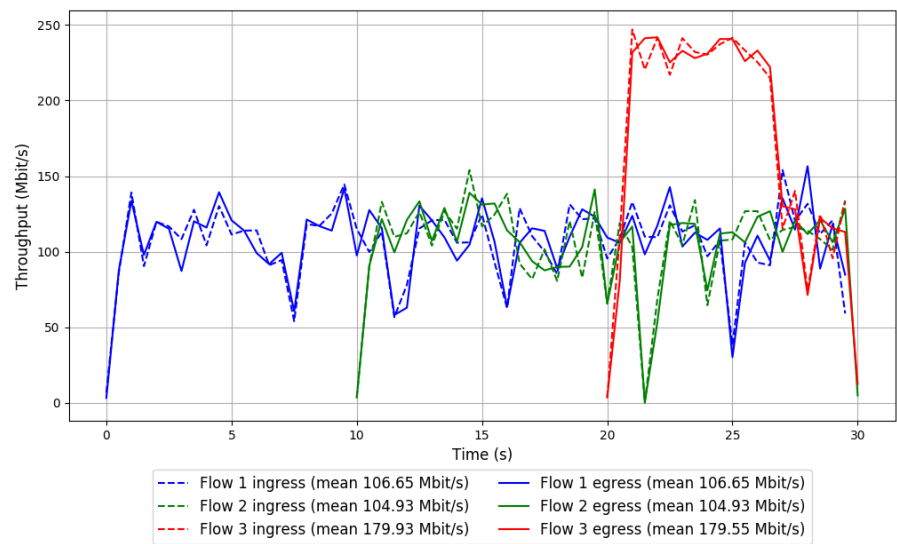
-- Flow 3:

Average throughput: 179.55 Mbit/s

95th percentile per-packet one-way delay: 63.652 ms

Loss rate: 0.21%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2017-10-12 12:50:07

End at: 2017-10-12 12:50:37

Below is generated by plot.py at 2017-10-12 16:12:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 216.08 Mbit/s

95th percentile per-packet one-way delay: 60.527 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 107.90 Mbit/s

95th percentile per-packet one-way delay: 60.726 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 112.76 Mbit/s

95th percentile per-packet one-way delay: 59.576 ms

Loss rate: 0.02%

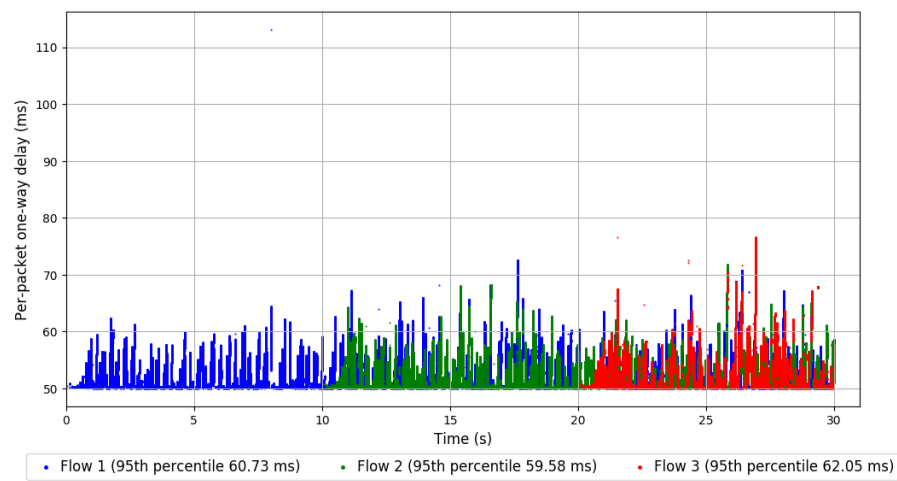
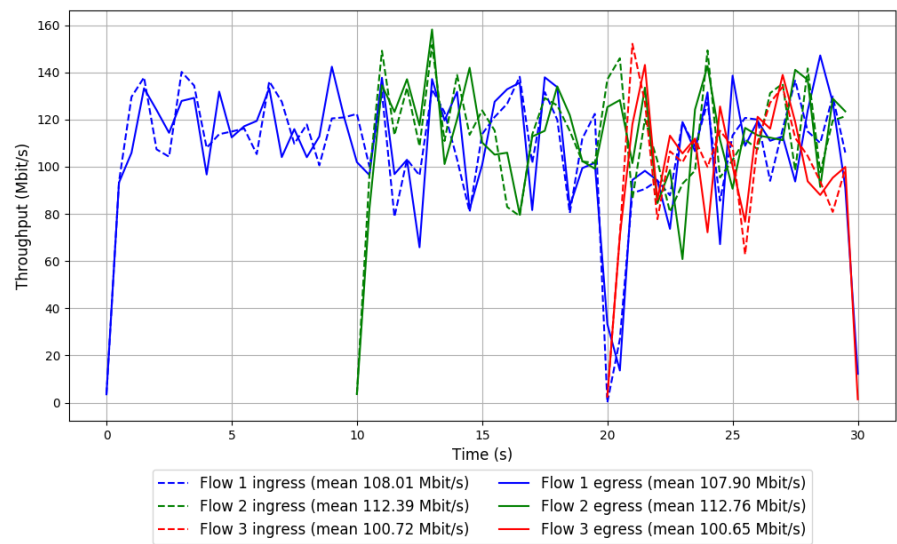
-- Flow 3:

Average throughput: 100.65 Mbit/s

95th percentile per-packet one-way delay: 62.050 ms

Loss rate: 0.00%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2017-10-12 13:02:36

End at: 2017-10-12 13:03:06

Below is generated by plot.py at 2017-10-12 16:12:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 205.56 Mbit/s

95th percentile per-packet one-way delay: 60.141 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 102.42 Mbit/s

95th percentile per-packet one-way delay: 60.100 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 106.37 Mbit/s

95th percentile per-packet one-way delay: 59.492 ms

Loss rate: 0.00%

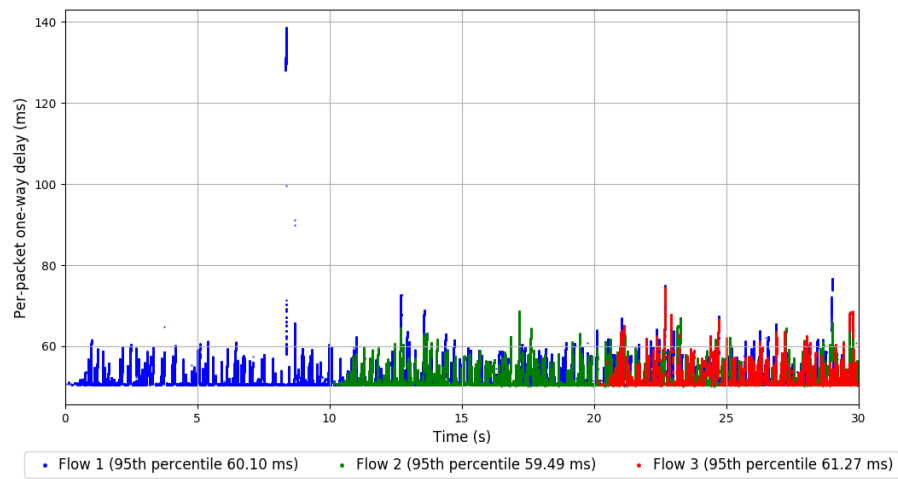
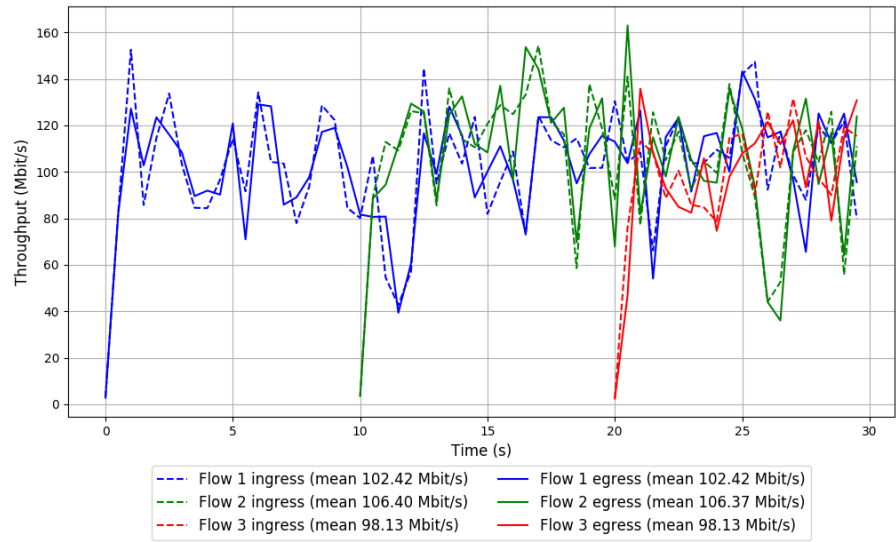
-- Flow 3:

Average throughput: 98.13 Mbit/s

95th percentile per-packet one-way delay: 61.267 ms

Loss rate: 0.00%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2017-10-12 13:14:59

End at: 2017-10-12 13:15:29

Below is generated by plot.py at 2017-10-12 16:13:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 252.59 Mbit/s

95th percentile per-packet one-way delay: 63.036 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 137.16 Mbit/s

95th percentile per-packet one-way delay: 63.140 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 122.04 Mbit/s

95th percentile per-packet one-way delay: 62.467 ms

Loss rate: 0.00%

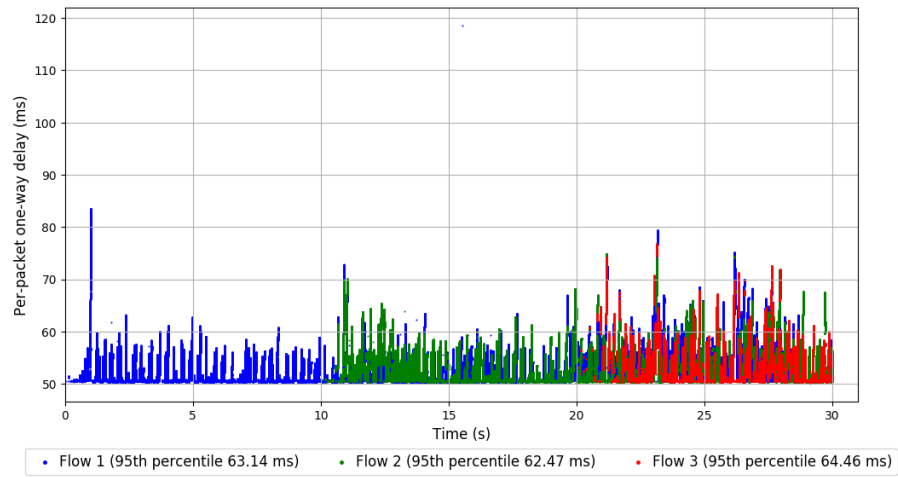
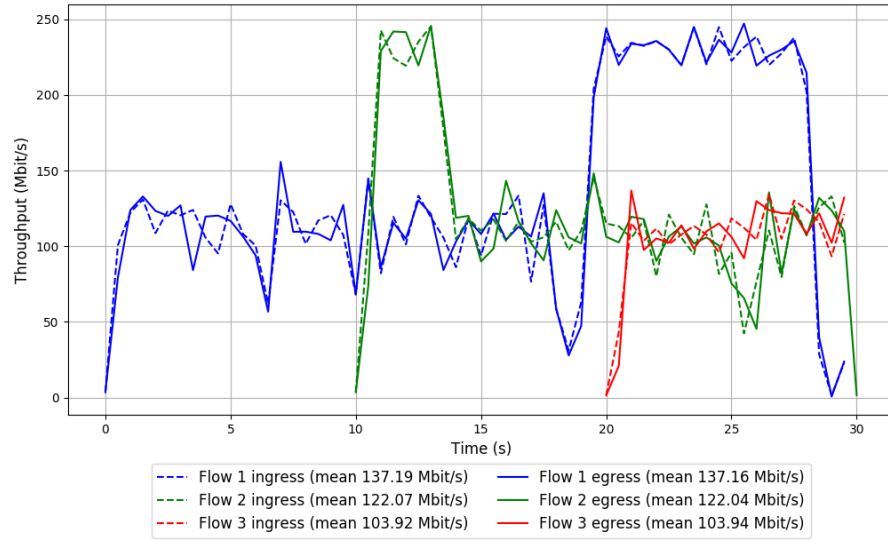
-- Flow 3:

Average throughput: 103.94 Mbit/s

95th percentile per-packet one-way delay: 64.460 ms

Loss rate: 0.00%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2017-10-12 13:27:28

End at: 2017-10-12 13:27:58

Below is generated by plot.py at 2017-10-12 16:13:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 219.43 Mbit/s

95th percentile per-packet one-way delay: 59.499 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 108.05 Mbit/s

95th percentile per-packet one-way delay: 60.225 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 105.50 Mbit/s

95th percentile per-packet one-way delay: 59.114 ms

Loss rate: 0.04%

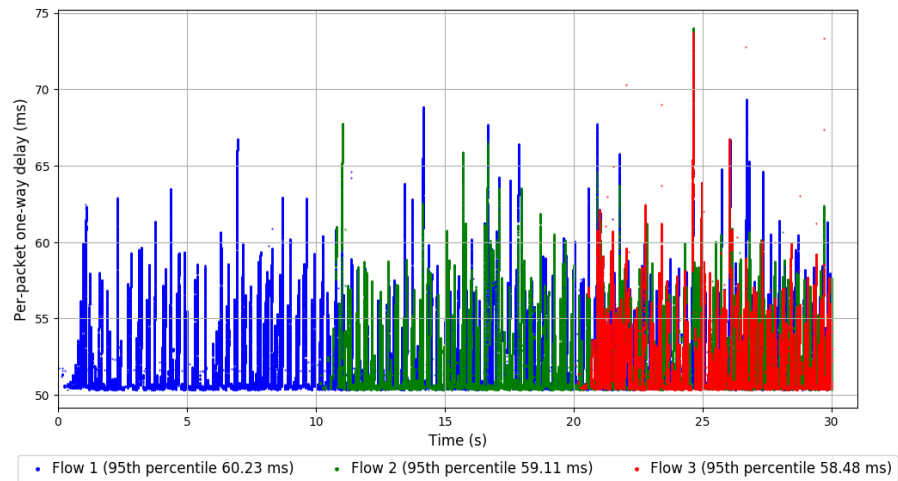
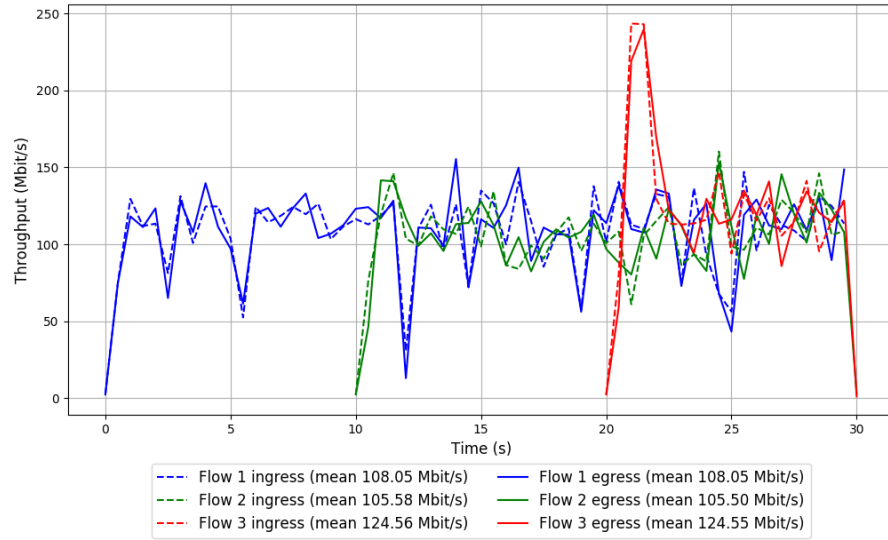
-- Flow 3:

Average throughput: 124.55 Mbit/s

95th percentile per-packet one-way delay: 58.476 ms

Loss rate: 0.03%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2017-10-12 13:39:57

End at: 2017-10-12 13:40:27

Below is generated by plot.py at 2017-10-12 16:13:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 242.69 Mbit/s

95th percentile per-packet one-way delay: 59.913 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 136.54 Mbit/s

95th percentile per-packet one-way delay: 59.090 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 107.02 Mbit/s

95th percentile per-packet one-way delay: 60.521 ms

Loss rate: 0.00%

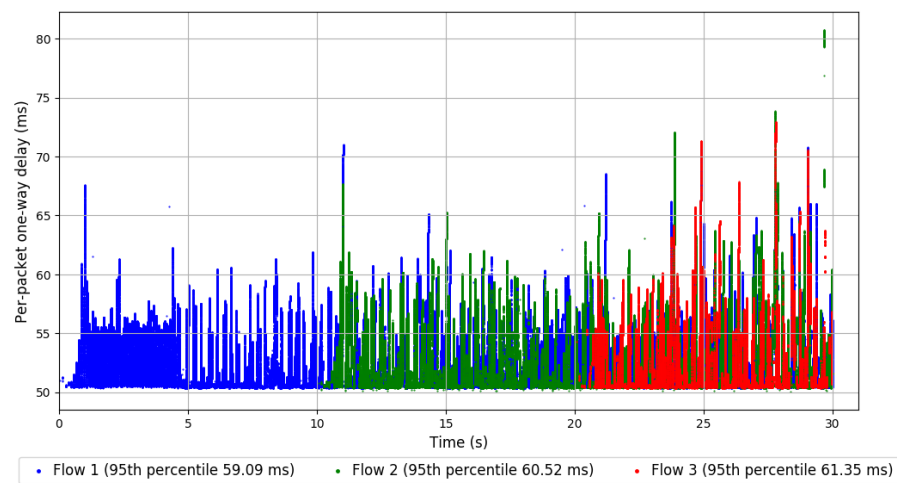
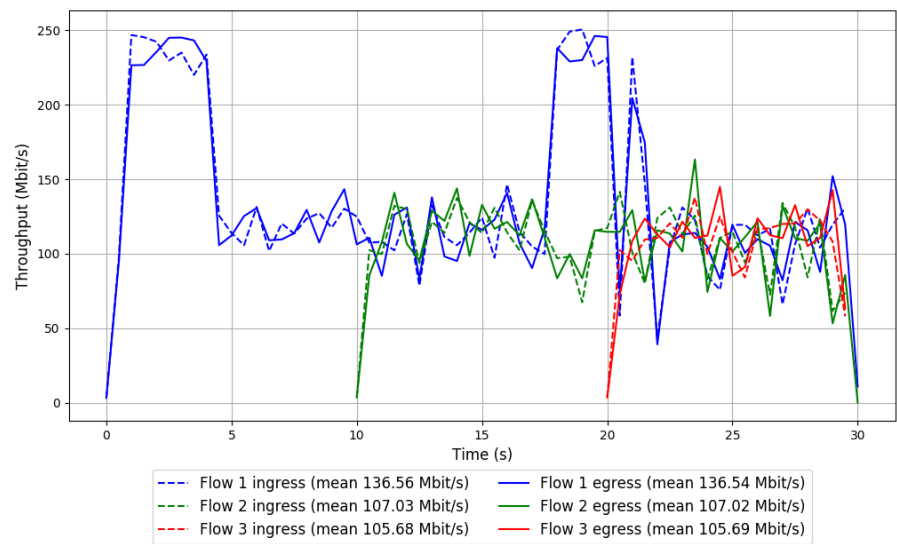
-- Flow 3:

Average throughput: 105.69 Mbit/s

95th percentile per-packet one-way delay: 61.353 ms

Loss rate: 0.00%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2017-10-12 13:52:30

End at: 2017-10-12 13:53:00

Below is generated by plot.py at 2017-10-12 16:13:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 253.56 Mbit/s

95th percentile per-packet one-way delay: 61.836 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 116.51 Mbit/s

95th percentile per-packet one-way delay: 60.154 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 153.41 Mbit/s

95th percentile per-packet one-way delay: 62.872 ms

Loss rate: 0.00%

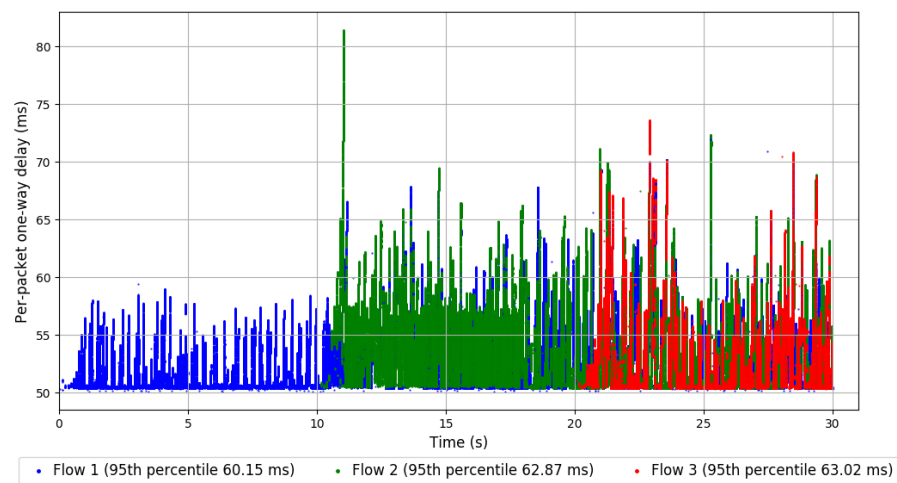
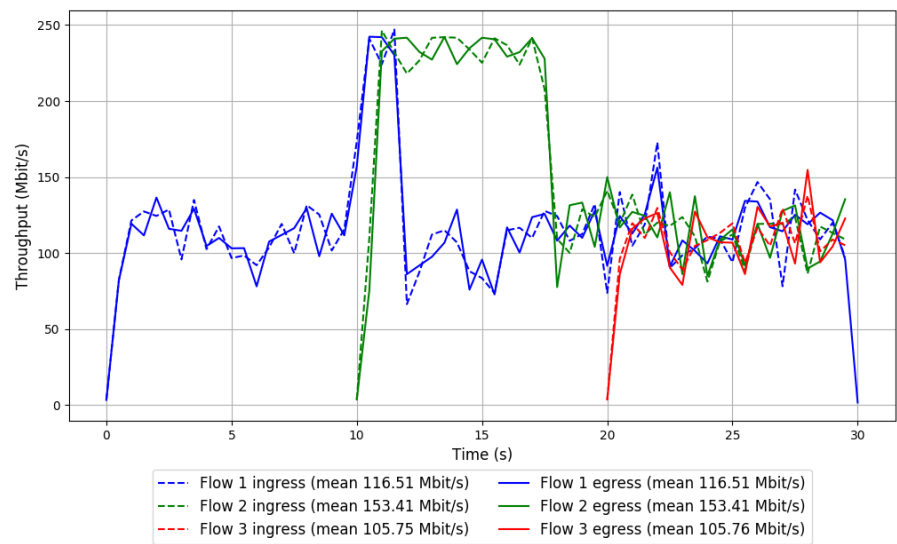
-- Flow 3:

Average throughput: 105.76 Mbit/s

95th percentile per-packet one-way delay: 63.015 ms

Loss rate: 0.00%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2017-10-12 14:05:07

End at: 2017-10-12 14:05:37

Below is generated by plot.py at 2017-10-12 16:16:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 216.66 Mbit/s

95th percentile per-packet one-way delay: 61.274 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 111.89 Mbit/s

95th percentile per-packet one-way delay: 60.882 ms

Loss rate: 0.15%

-- Flow 2:

Average throughput: 104.36 Mbit/s

95th percentile per-packet one-way delay: 62.246 ms

Loss rate: 0.00%

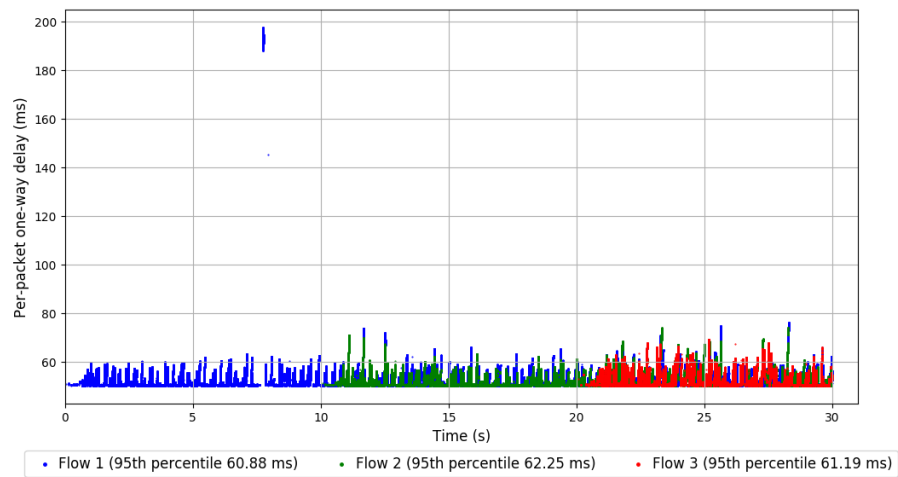
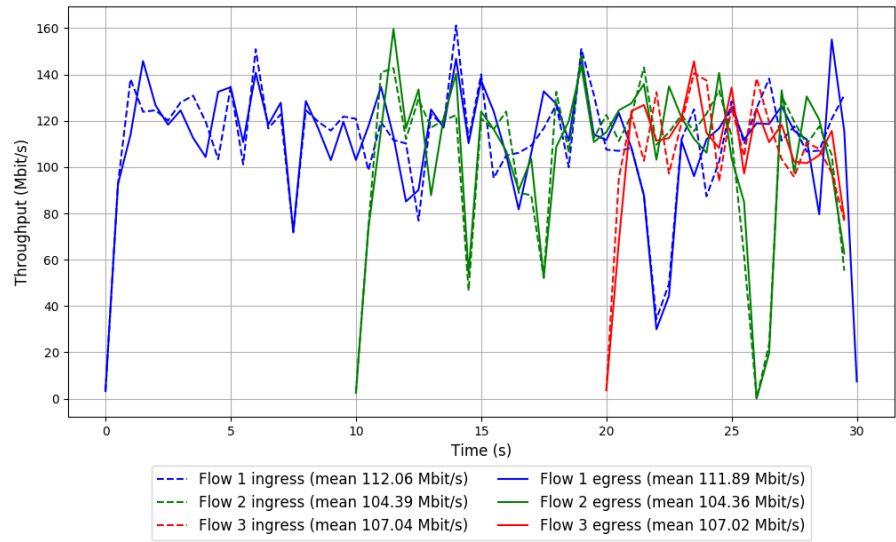
-- Flow 3:

Average throughput: 107.02 Mbit/s

95th percentile per-packet one-way delay: 61.191 ms

Loss rate: 0.00%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2017-10-12 14:17:48

End at: 2017-10-12 14:18:18

Below is generated by plot.py at 2017-10-12 16:16:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 258.28 Mbit/s

95th percentile per-packet one-way delay: 63.424 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 108.52 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 134.02 Mbit/s

95th percentile per-packet one-way delay: 62.489 ms

Loss rate: 0.02%

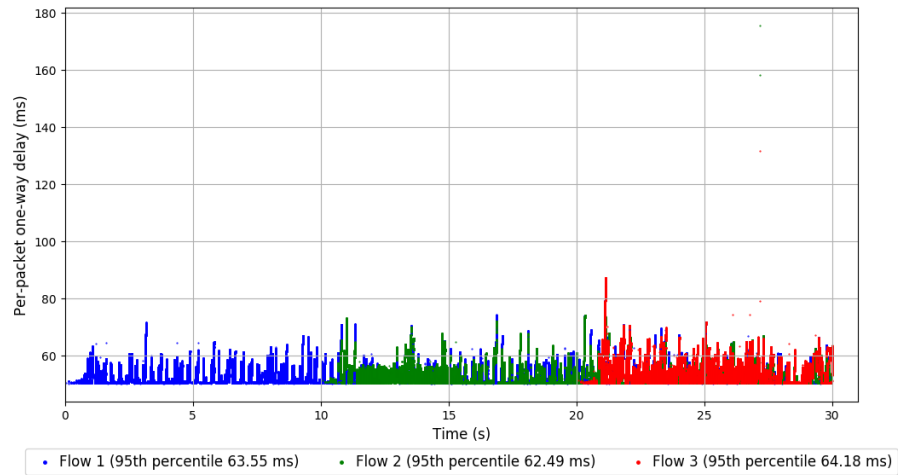
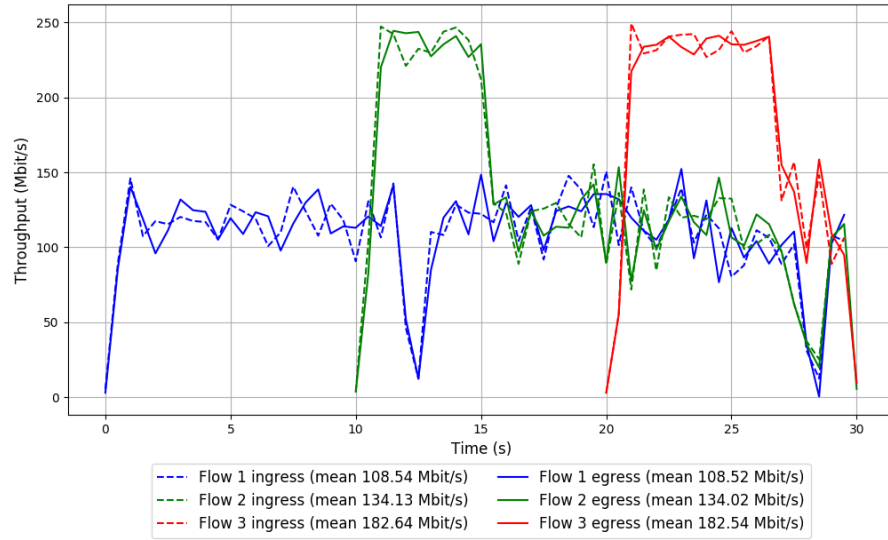
-- Flow 3:

Average throughput: 182.54 Mbit/s

95th percentile per-packet one-way delay: 64.181 ms

Loss rate: 0.06%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2017-10-12 12:24:10

End at: 2017-10-12 12:24:40

Below is generated by plot.py at 2017-10-12 16:18:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 316.77 Mbit/s

95th percentile per-packet one-way delay: 68.273 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 173.63 Mbit/s

95th percentile per-packet one-way delay: 67.912 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 113.80 Mbit/s

95th percentile per-packet one-way delay: 67.358 ms

Loss rate: 0.00%

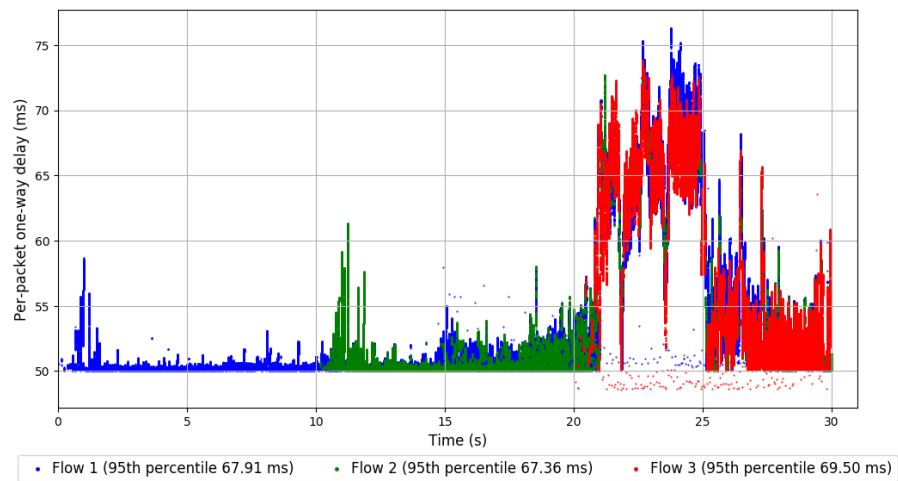
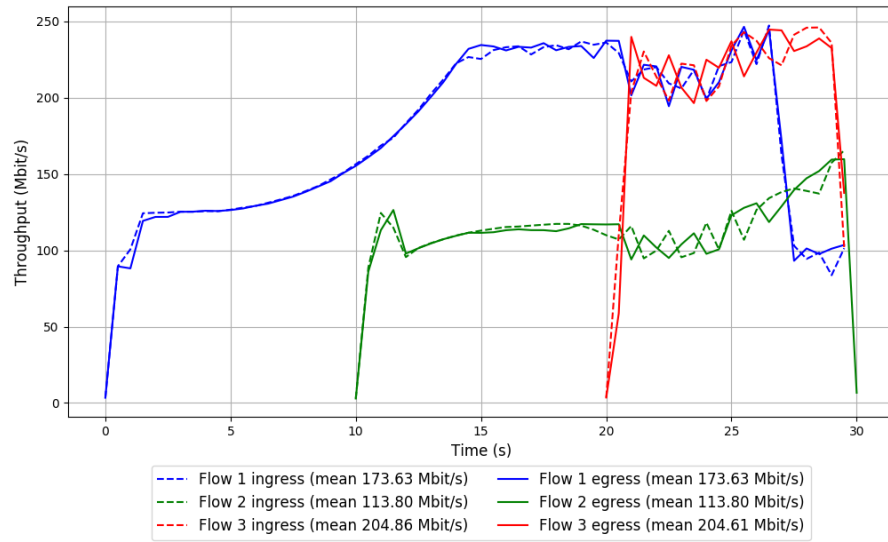
-- Flow 3:

Average throughput: 204.61 Mbit/s

95th percentile per-packet one-way delay: 69.503 ms

Loss rate: 0.00%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2017-10-12 12:36:41

End at: 2017-10-12 12:37:11

Below is generated by plot.py at 2017-10-12 16:18:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 311.17 Mbit/s

95th percentile per-packet one-way delay: 56.063 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 176.05 Mbit/s

95th percentile per-packet one-way delay: 55.070 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 135.92 Mbit/s

95th percentile per-packet one-way delay: 56.617 ms

Loss rate: 0.14%

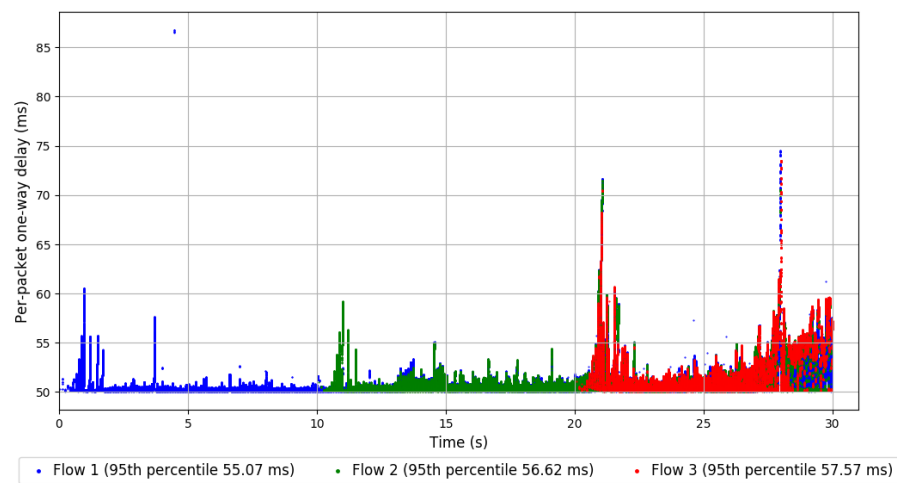
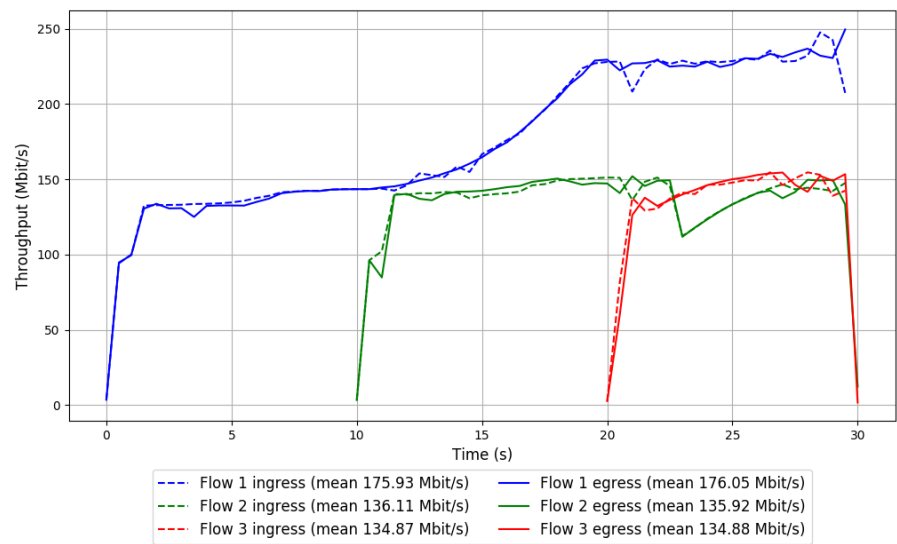
-- Flow 3:

Average throughput: 134.88 Mbit/s

95th percentile per-packet one-way delay: 57.572 ms

Loss rate: 0.02%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2017-10-12 12:49:13

End at: 2017-10-12 12:49:43

Below is generated by plot.py at 2017-10-12 16:18:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 268.00 Mbit/s

95th percentile per-packet one-way delay: 55.502 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 127.96 Mbit/s

95th percentile per-packet one-way delay: 54.198 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 146.21 Mbit/s

95th percentile per-packet one-way delay: 54.291 ms

Loss rate: 0.00%

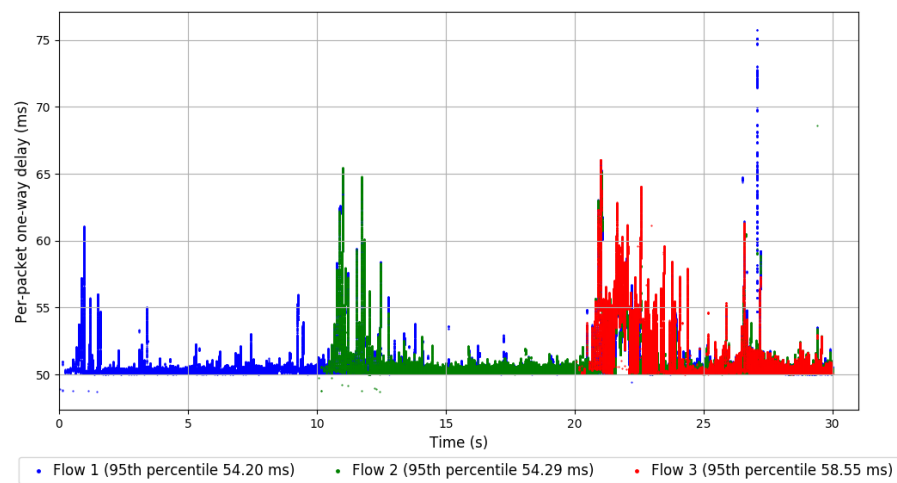
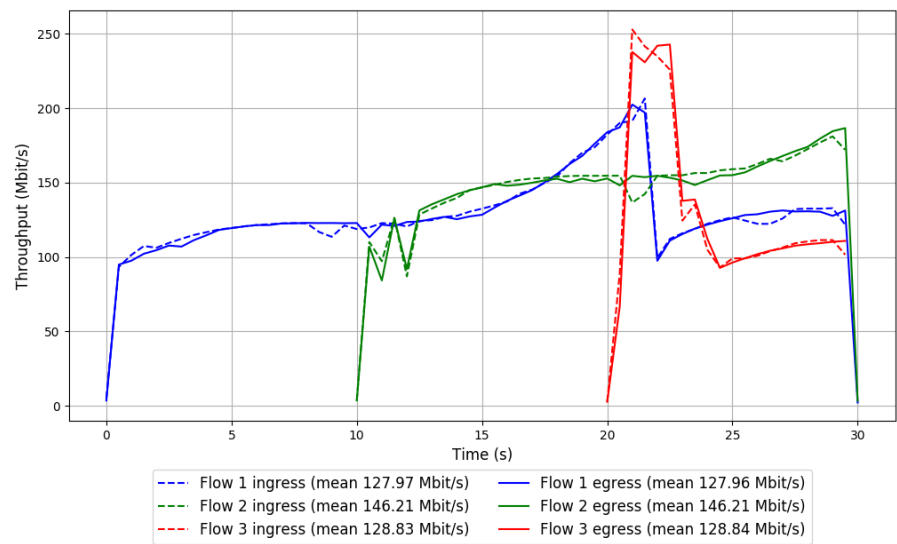
-- Flow 3:

Average throughput: 128.84 Mbit/s

95th percentile per-packet one-way delay: 58.548 ms

Loss rate: 0.00%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2017-10-12 13:01:41

End at: 2017-10-12 13:02:11

Below is generated by plot.py at 2017-10-12 16:18:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 274.79 Mbit/s

95th percentile per-packet one-way delay: 56.848 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 157.10 Mbit/s

95th percentile per-packet one-way delay: 56.604 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 122.88 Mbit/s

95th percentile per-packet one-way delay: 56.592 ms

Loss rate: 0.00%

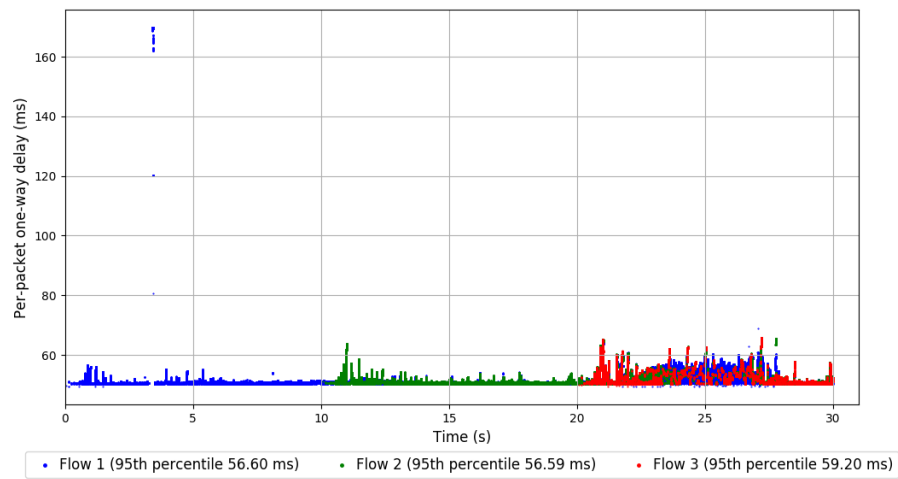
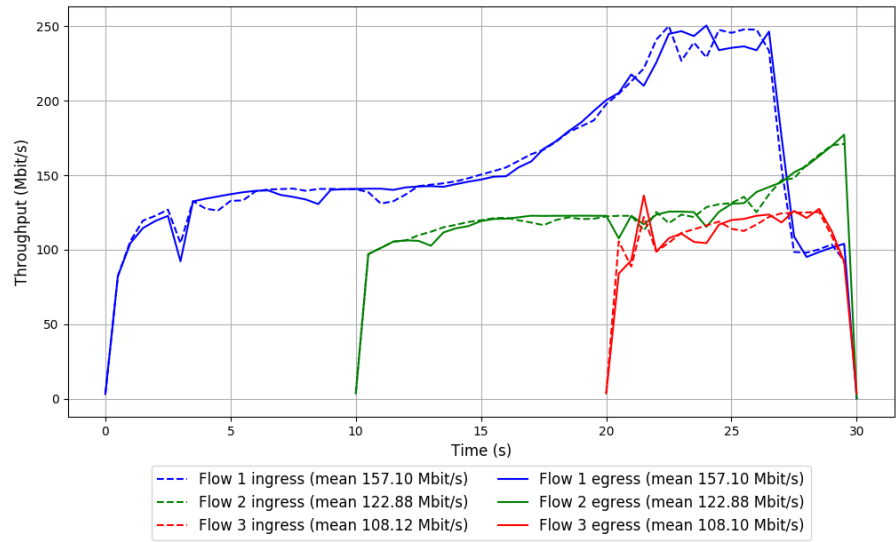
-- Flow 3:

Average throughput: 108.10 Mbit/s

95th percentile per-packet one-way delay: 59.198 ms

Loss rate: 0.01%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2017-10-12 13:14:07

End at: 2017-10-12 13:14:37

Below is generated by plot.py at 2017-10-12 16:18:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 233.17 Mbit/s

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

Loss rate: 0.01%

-- Flow 1:

Average throughput: 123.14 Mbit/s

95th percentile per-packet one-way delay: 51.768 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 113.82 Mbit/s

95th percentile per-packet one-way delay: 52.430 ms

Loss rate: 0.01%

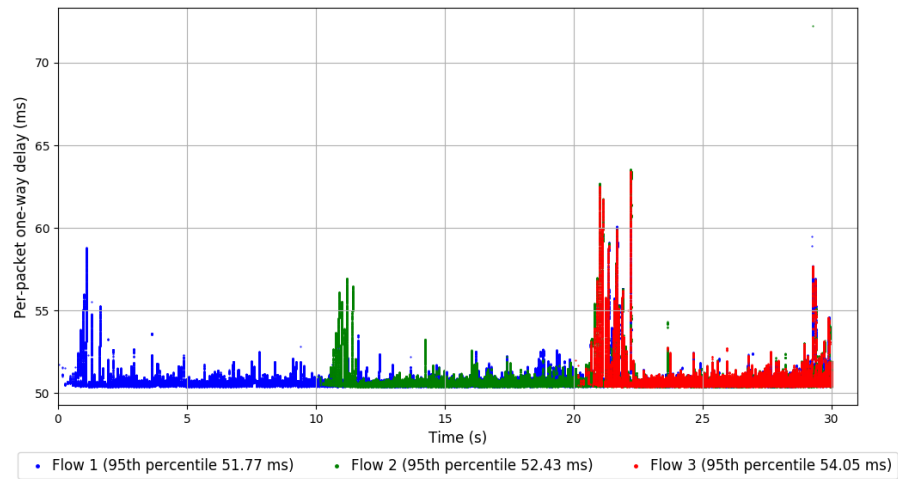
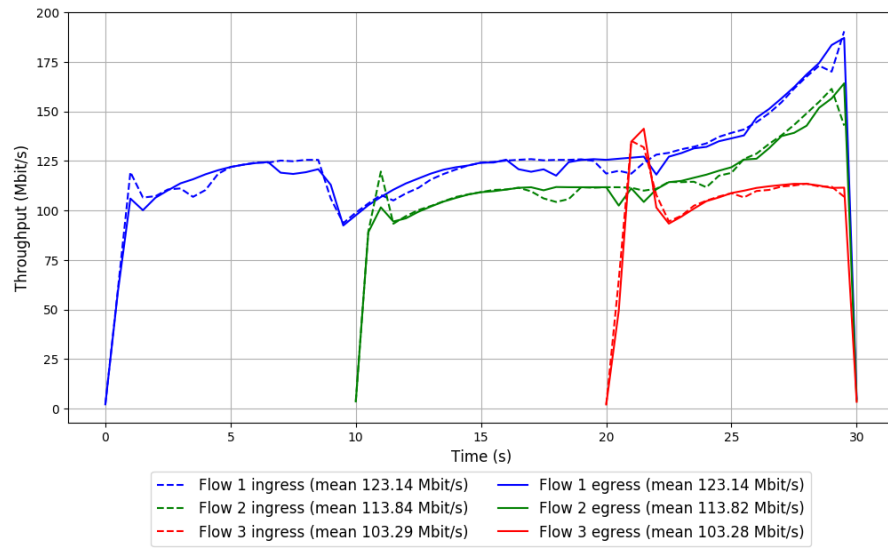
-- Flow 3:

Average throughput: 103.28 Mbit/s

95th percentile per-packet one-way delay: 54.053 ms

Loss rate: 0.02%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2017-10-12 13:26:32

End at: 2017-10-12 13:27:02

Below is generated by plot.py at 2017-10-12 16:18:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 297.18 Mbit/s

95th percentile per-packet one-way delay: 55.824 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 188.43 Mbit/s

95th percentile per-packet one-way delay: 55.683 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 118.62 Mbit/s

95th percentile per-packet one-way delay: 56.124 ms

Loss rate: 0.00%

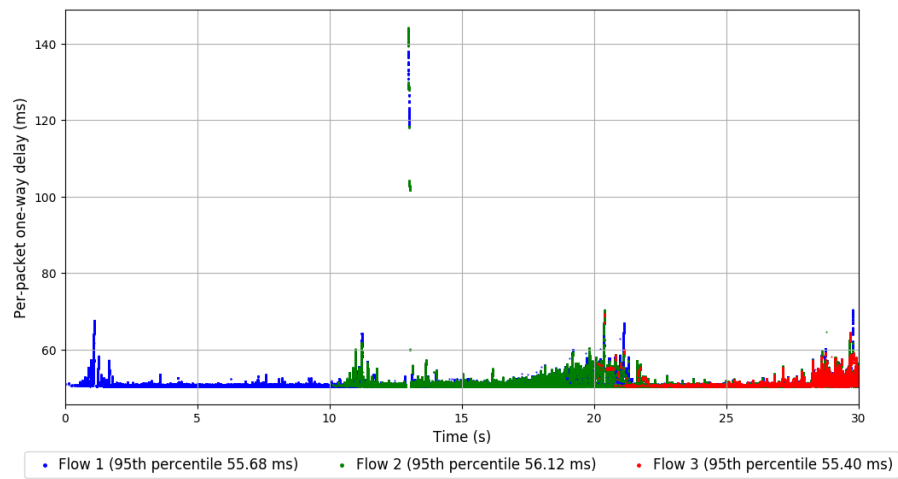
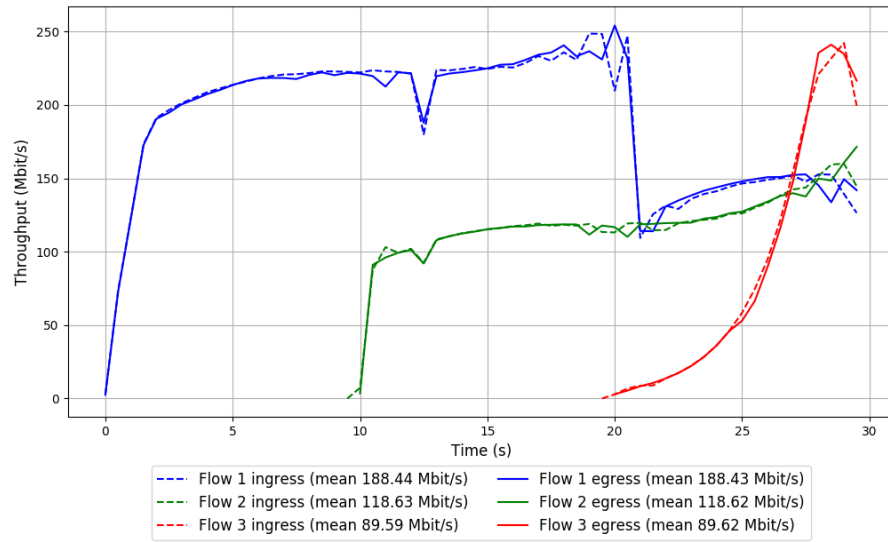
-- Flow 3:

Average throughput: 89.62 Mbit/s

95th percentile per-packet one-way delay: 55.396 ms

Loss rate: 0.02%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2017-10-12 13:39:00

End at: 2017-10-12 13:39:30

Below is generated by plot.py at 2017-10-12 16:22:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 322.32 Mbit/s

95th percentile per-packet one-way delay: 58.002 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 165.21 Mbit/s

95th percentile per-packet one-way delay: 58.021 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 175.72 Mbit/s

95th percentile per-packet one-way delay: 57.313 ms

Loss rate: 0.00%

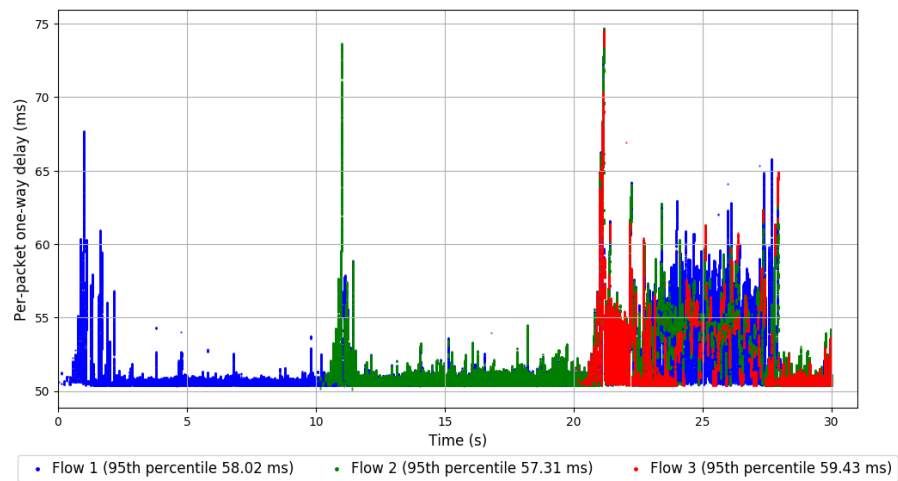
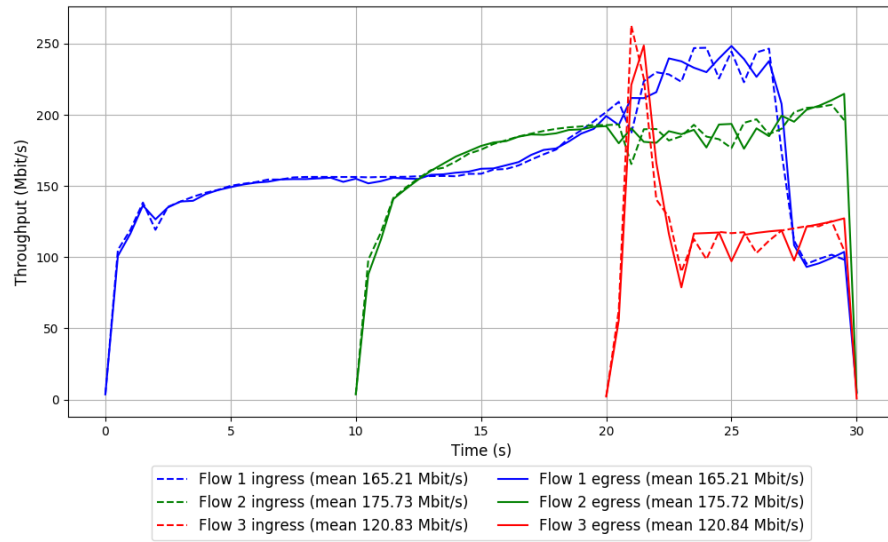
-- Flow 3:

Average throughput: 120.84 Mbit/s

95th percentile per-packet one-way delay: 59.427 ms

Loss rate: 0.00%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2017-10-12 13:51:36

End at: 2017-10-12 13:52:06

Below is generated by plot.py at 2017-10-12 16:22:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 253.35 Mbit/s

95th percentile per-packet one-way delay: 56.930 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 154.69 Mbit/s

95th percentile per-packet one-way delay: 57.226 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 95.71 Mbit/s

95th percentile per-packet one-way delay: 52.919 ms

Loss rate: 0.00%

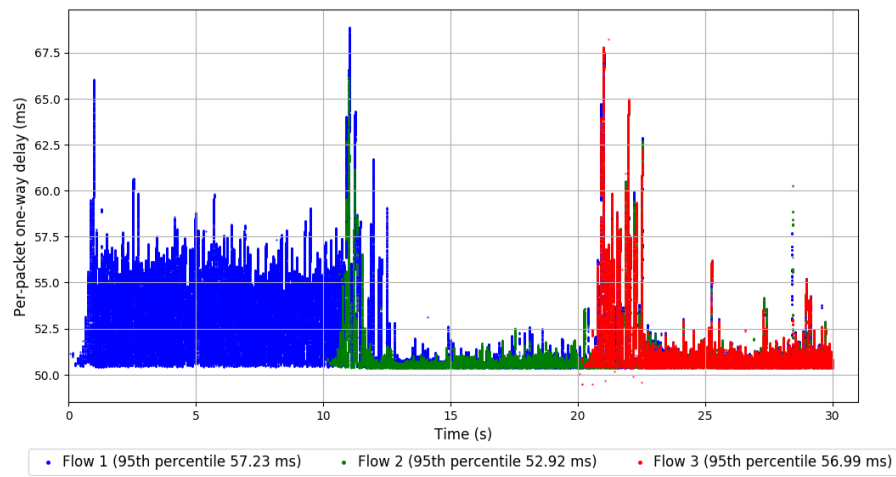
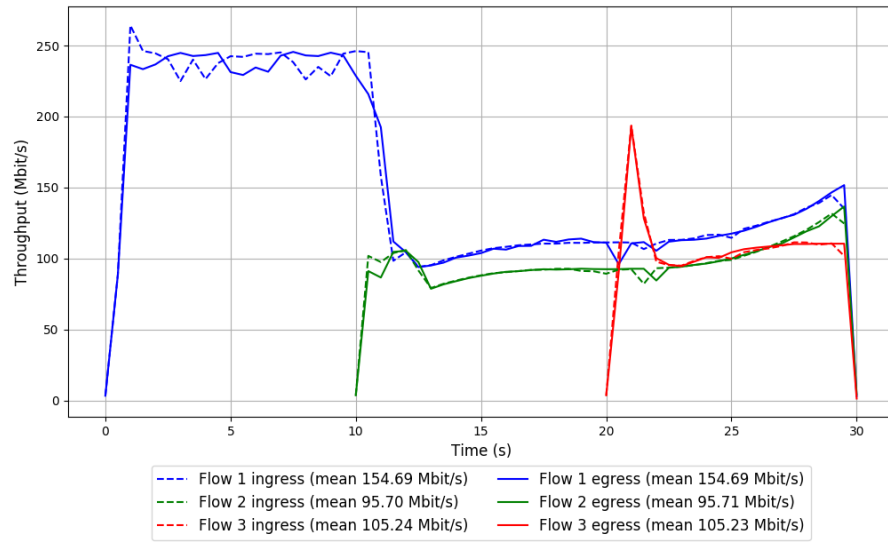
-- Flow 3:

Average throughput: 105.23 Mbit/s

95th percentile per-packet one-way delay: 56.994 ms

Loss rate: 0.00%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2017-10-12 14:04:13

End at: 2017-10-12 14:04:43

Below is generated by plot.py at 2017-10-12 16:22:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 253.36 Mbit/s

95th percentile per-packet one-way delay: 53.729 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 143.85 Mbit/s

95th percentile per-packet one-way delay: 53.380 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 116.07 Mbit/s

95th percentile per-packet one-way delay: 53.623 ms

Loss rate: 0.00%

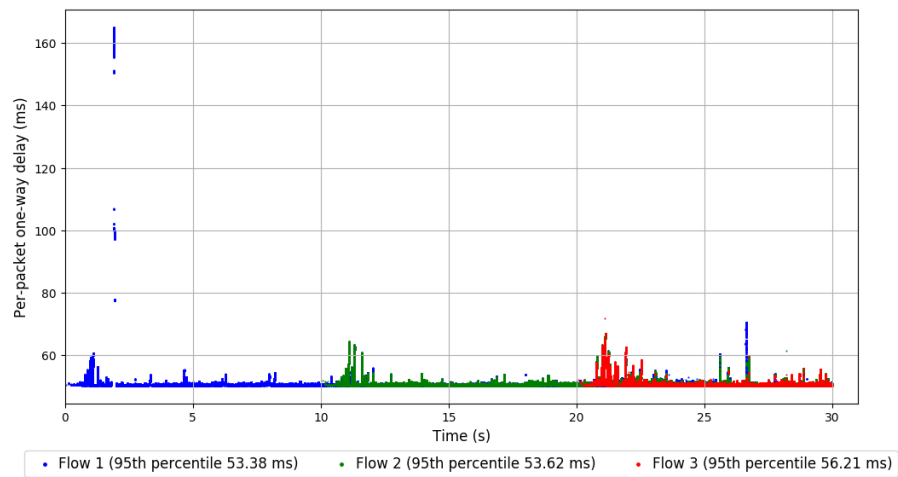
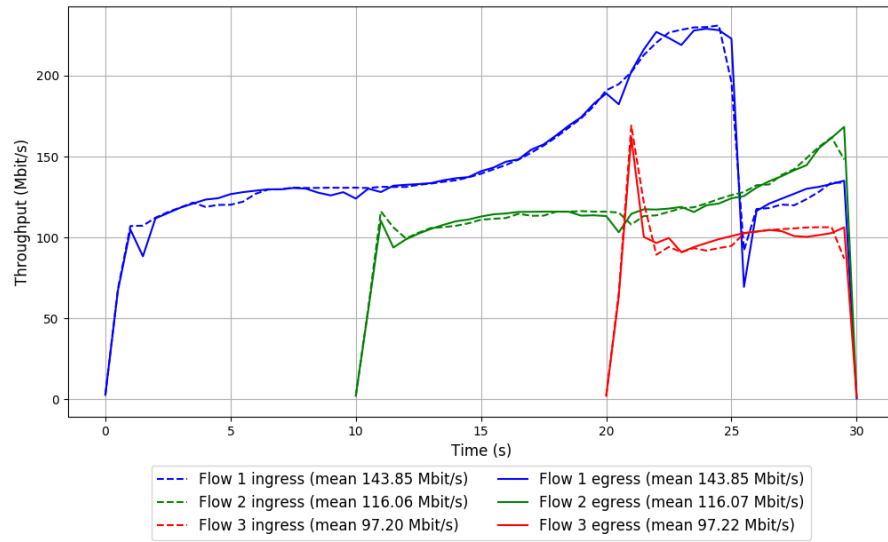
-- Flow 3:

Average throughput: 97.22 Mbit/s

95th percentile per-packet one-way delay: 56.207 ms

Loss rate: 0.00%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2017-10-12 14:16:51

End at: 2017-10-12 14:17:21

Below is generated by plot.py at 2017-10-12 16:22:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 307.53 Mbit/s

95th percentile per-packet one-way delay: 57.683 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 184.99 Mbit/s

95th percentile per-packet one-way delay: 57.148 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 123.65 Mbit/s

95th percentile per-packet one-way delay: 58.532 ms

Loss rate: 0.00%

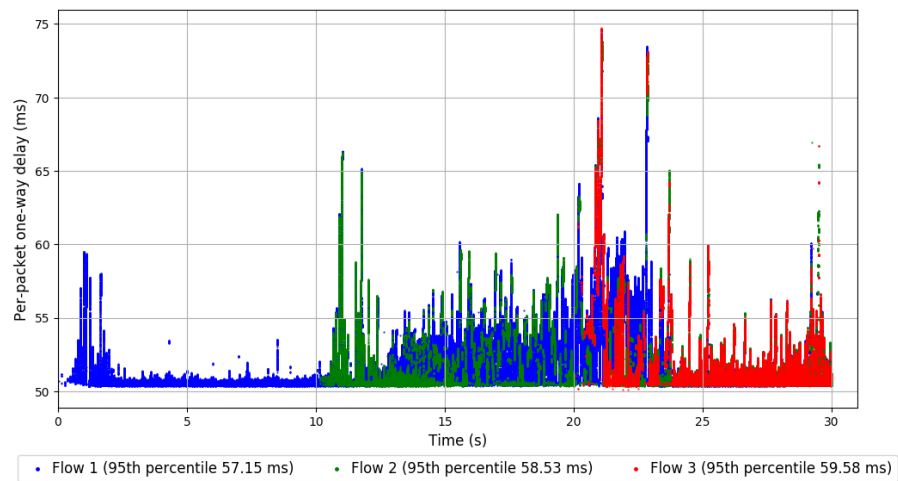
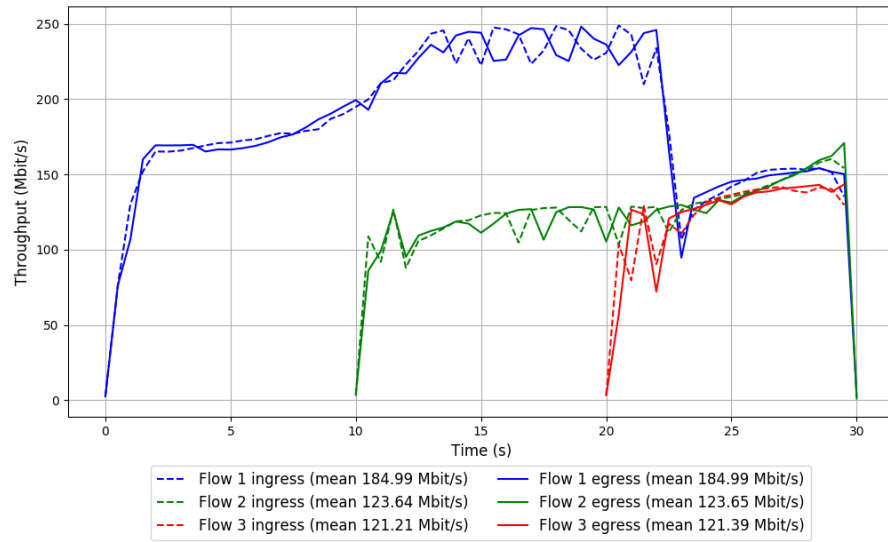
-- Flow 3:

Average throughput: 121.39 Mbit/s

95th percentile per-packet one-way delay: 59.584 ms

Loss rate: 0.00%

Run 10: Report of TCP Cubic — Data Link

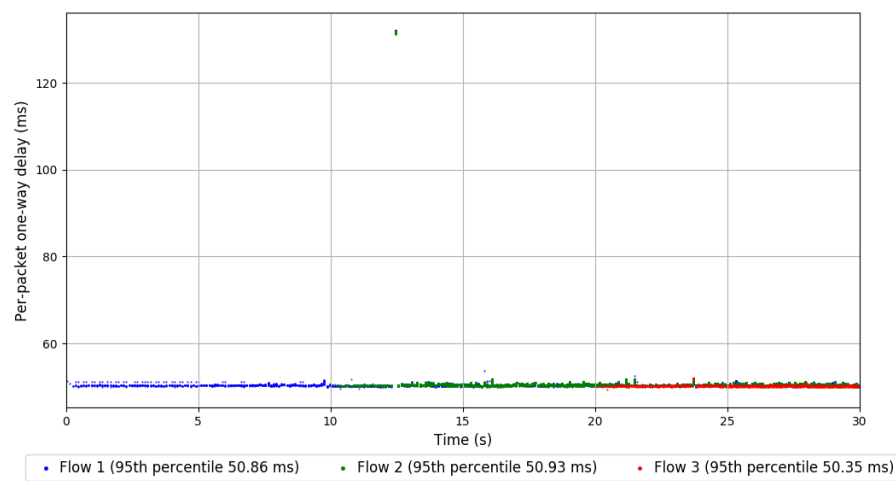
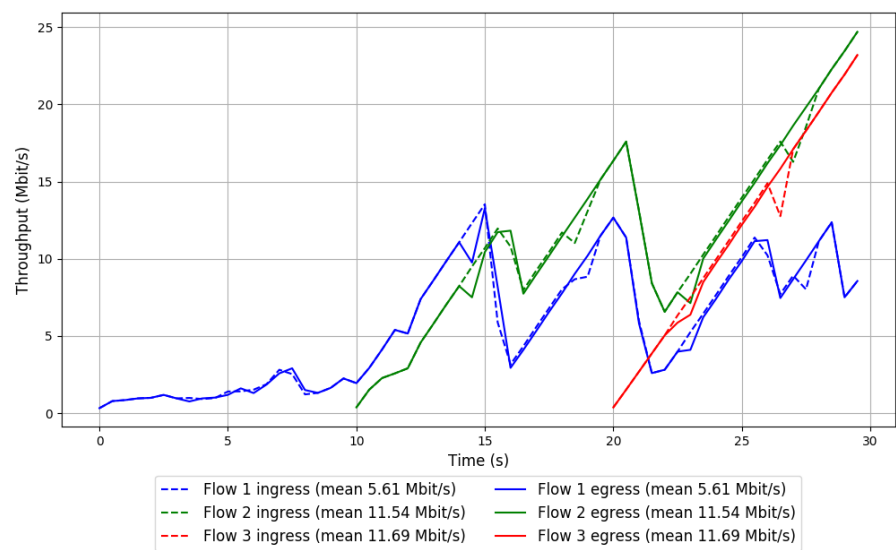


```
Run 1: Statistics of LEDBAT

Start at: 2017-10-12 12:32:32
End at: 2017-10-12 12:33:02

# Below is generated by plot.py at 2017-10-12 16:22:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 17.15 Mbit/s
95th percentile per-packet one-way delay: 50.869 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 5.61 Mbit/s
95th percentile per-packet one-way delay: 50.864 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 11.54 Mbit/s
95th percentile per-packet one-way delay: 50.926 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 11.69 Mbit/s
95th percentile per-packet one-way delay: 50.349 ms
Loss rate: 0.00%
```


Run 1: Report of LEDBAT — Data Link

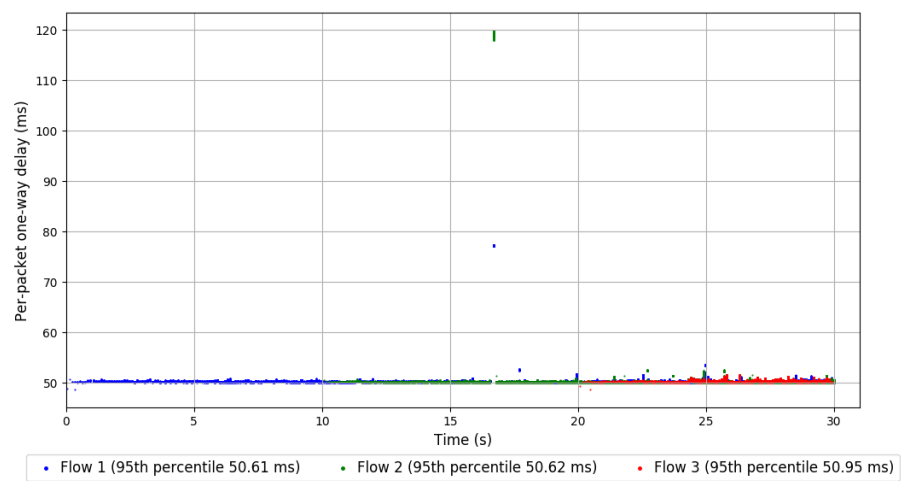
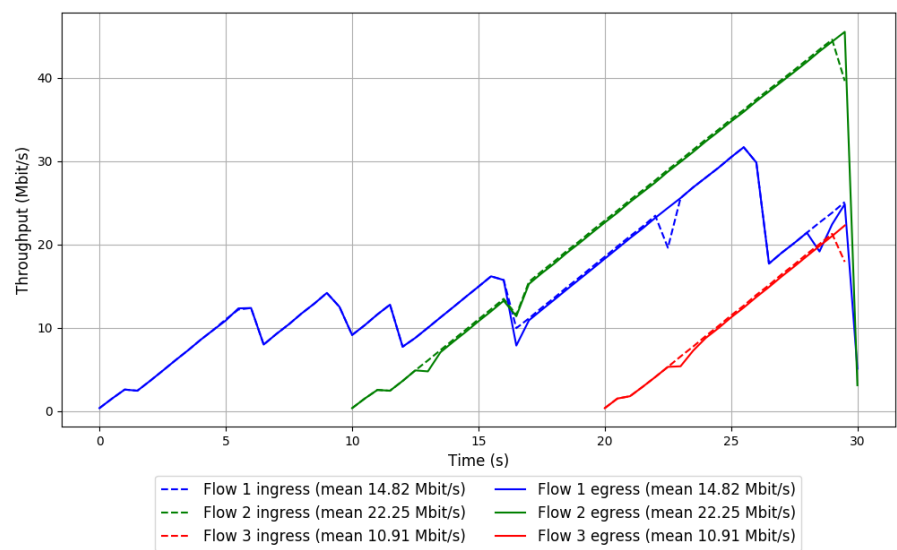


```
Run 2: Statistics of LEDBAT

Start at: 2017-10-12 12:44:58
End at: 2017-10-12 12:45:28

# Below is generated by plot.py at 2017-10-12 16:22:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 33.22 Mbit/s
95th percentile per-packet one-way delay: 50.675 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 14.82 Mbit/s
95th percentile per-packet one-way delay: 50.609 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 22.25 Mbit/s
95th percentile per-packet one-way delay: 50.621 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 10.91 Mbit/s
95th percentile per-packet one-way delay: 50.945 ms
Loss rate: 0.00%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2017-10-12 12:57:28

End at: 2017-10-12 12:57:58

Below is generated by plot.py at 2017-10-12 16:22:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 28.13 Mbit/s

95th percentile per-packet one-way delay: 50.867 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 8.73 Mbit/s

95th percentile per-packet one-way delay: 50.897 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 23.45 Mbit/s

95th percentile per-packet one-way delay: 50.840 ms

Loss rate: 0.00%

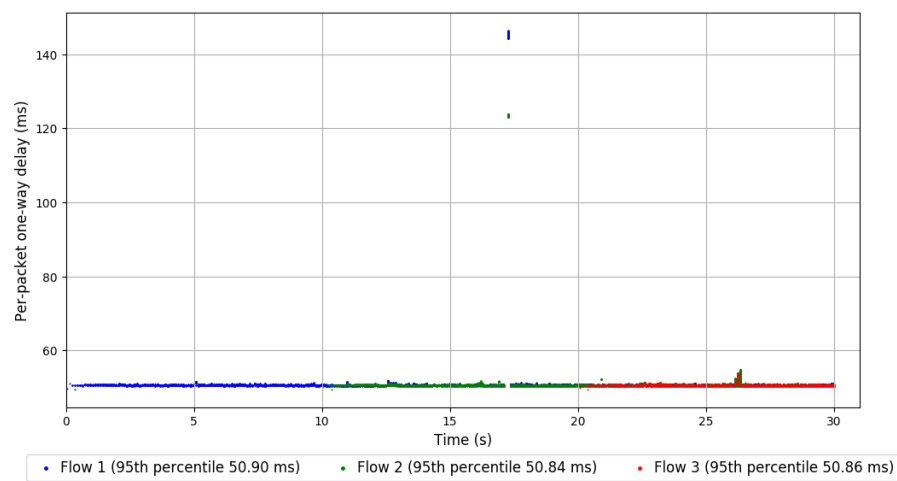
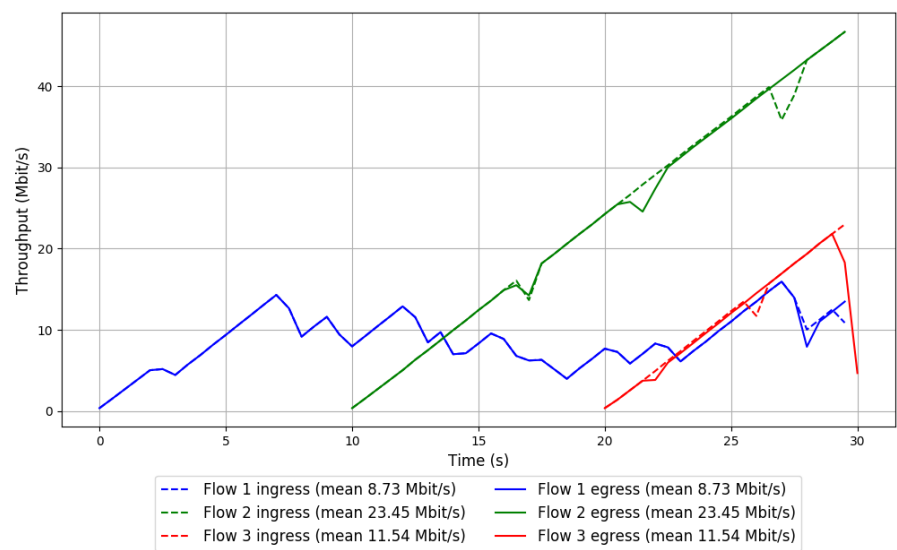
-- Flow 3:

Average throughput: 11.54 Mbit/s

95th percentile per-packet one-way delay: 50.859 ms

Loss rate: 0.00%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2017-10-12 13:09:54

End at: 2017-10-12 13:10:24

Below is generated by plot.py at 2017-10-12 16:22:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 23.89 Mbit/s

95th percentile per-packet one-way delay: 51.061 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 11.84 Mbit/s

95th percentile per-packet one-way delay: 51.026 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 12.72 Mbit/s

95th percentile per-packet one-way delay: 51.001 ms

Loss rate: 0.00%

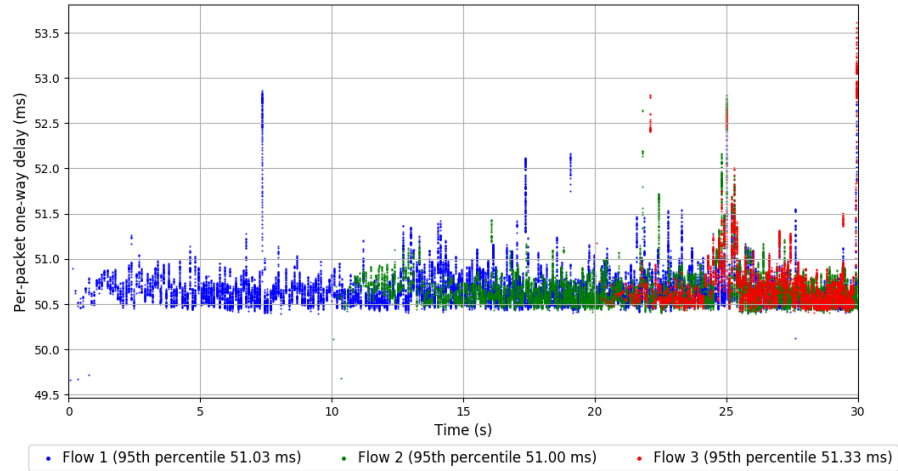
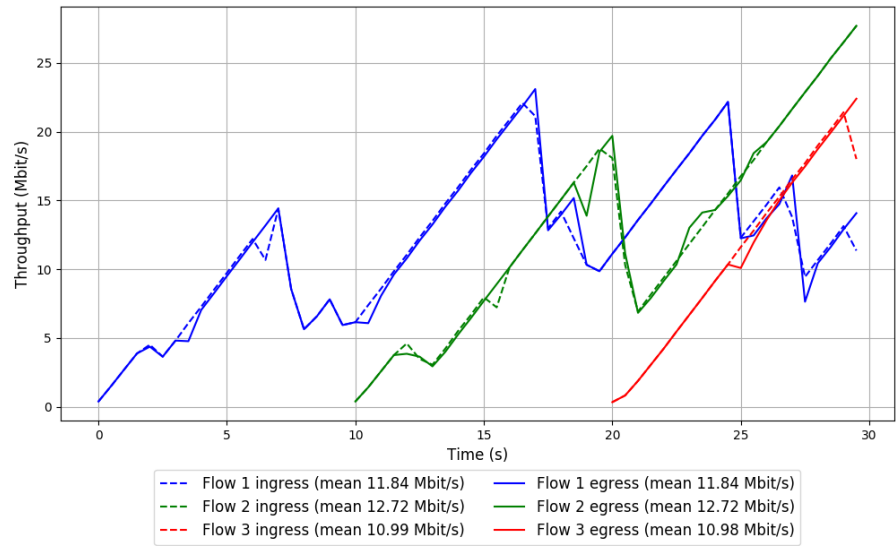
-- Flow 3:

Average throughput: 10.98 Mbit/s

95th percentile per-packet one-way delay: 51.329 ms

Loss rate: 0.00%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2017-10-12 13:22:24

End at: 2017-10-12 13:22:54

Below is generated by plot.py at 2017-10-12 16:22:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 27.59 Mbit/s

95th percentile per-packet one-way delay: 50.933 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 15.10 Mbit/s

95th percentile per-packet one-way delay: 50.972 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 15.15 Mbit/s

95th percentile per-packet one-way delay: 50.883 ms

Loss rate: 0.00%

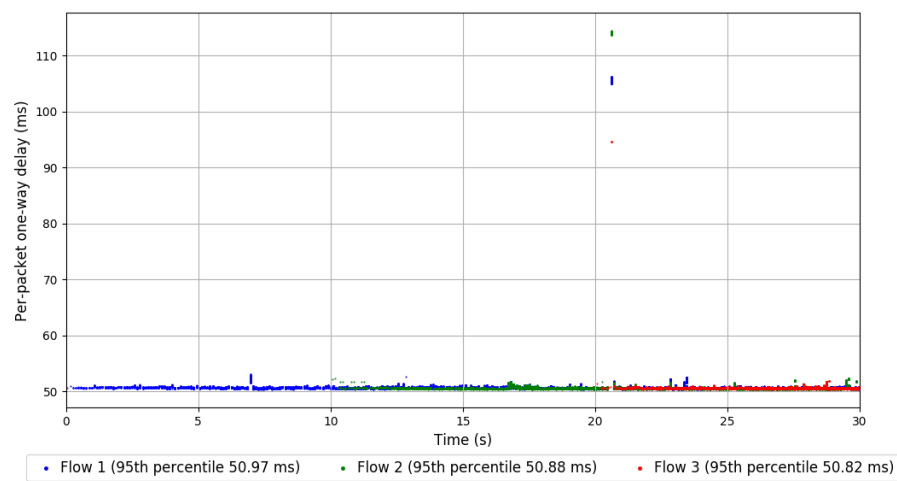
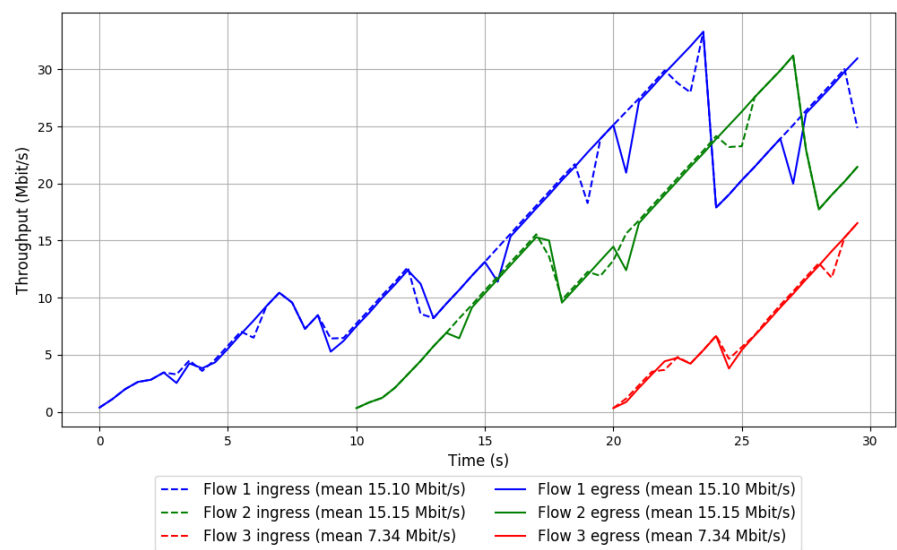
-- Flow 3:

Average throughput: 7.34 Mbit/s

95th percentile per-packet one-way delay: 50.822 ms

Loss rate: 0.00%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2017-10-12 13:34:54

End at: 2017-10-12 13:35:24

Below is generated by plot.py at 2017-10-12 16:22:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 27.20 Mbit/s

95th percentile per-packet one-way delay: 50.868 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 15.89 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 11.29 Mbit/s

95th percentile per-packet one-way delay: 50.874 ms

Loss rate: 0.00%

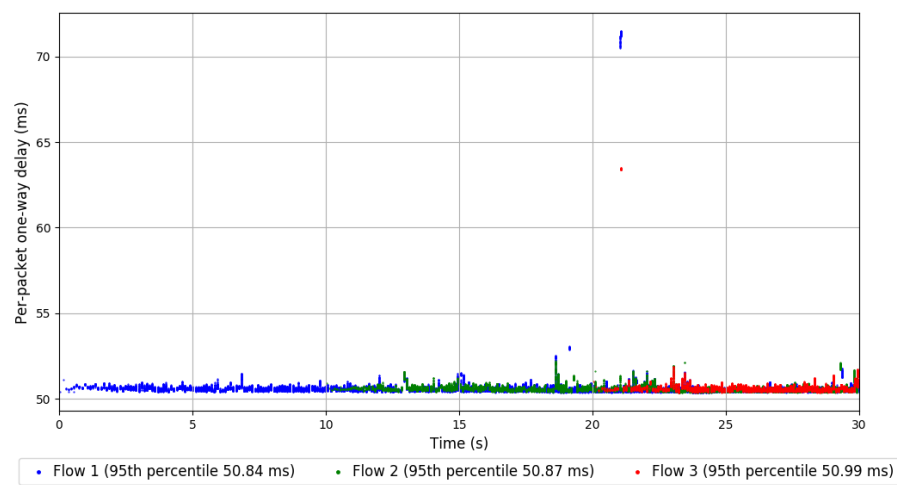
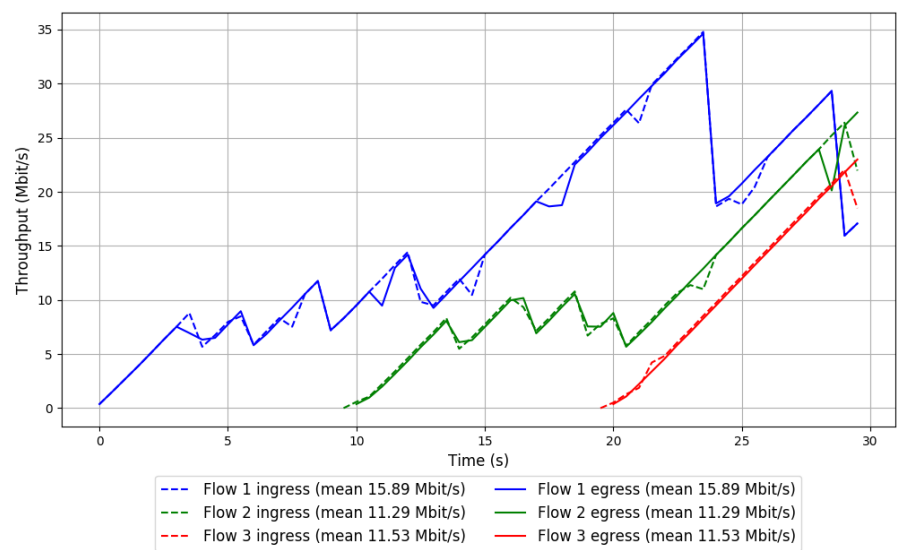
-- Flow 3:

Average throughput: 11.53 Mbit/s

95th percentile per-packet one-way delay: 50.995 ms

Loss rate: 0.00%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2017-10-12 13:47:20

End at: 2017-10-12 13:47:50

Below is generated by plot.py at 2017-10-12 16:22:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 25.05 Mbit/s

95th percentile per-packet one-way delay: 52.146 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 16.99 Mbit/s

95th percentile per-packet one-way delay: 52.179 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 8.67 Mbit/s

95th percentile per-packet one-way delay: 52.144 ms

Loss rate: 0.00%

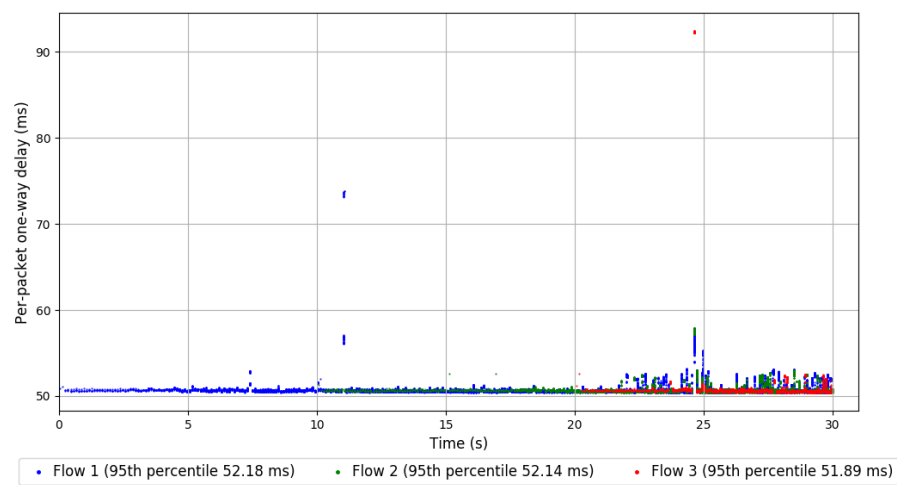
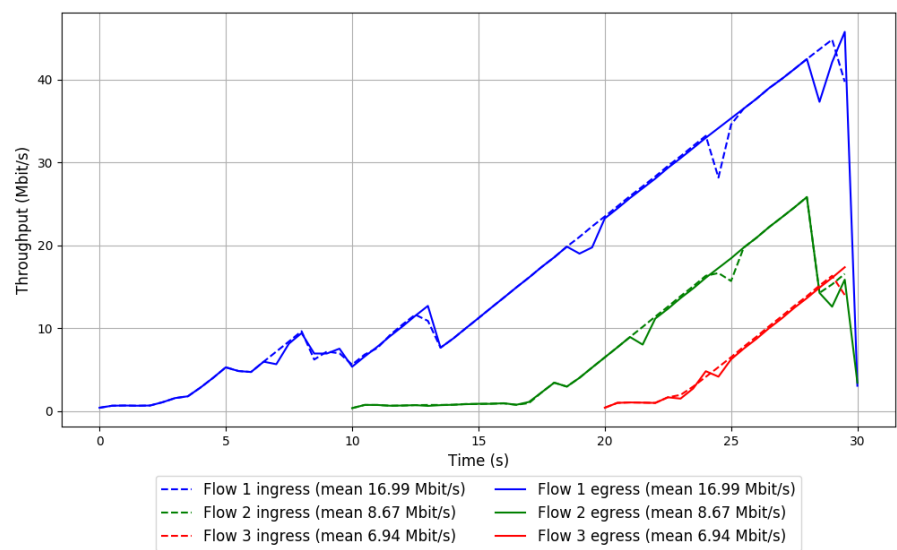
-- Flow 3:

Average throughput: 6.94 Mbit/s

95th percentile per-packet one-way delay: 51.888 ms

Loss rate: 0.00%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2017-10-12 13:59:57

End at: 2017-10-12 14:00:27

Below is generated by plot.py at 2017-10-12 16:22:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 28.15 Mbit/s

95th percentile per-packet one-way delay: 51.305 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 12.31 Mbit/s

95th percentile per-packet one-way delay: 51.228 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 19.09 Mbit/s

95th percentile per-packet one-way delay: 51.391 ms

Loss rate: 0.00%

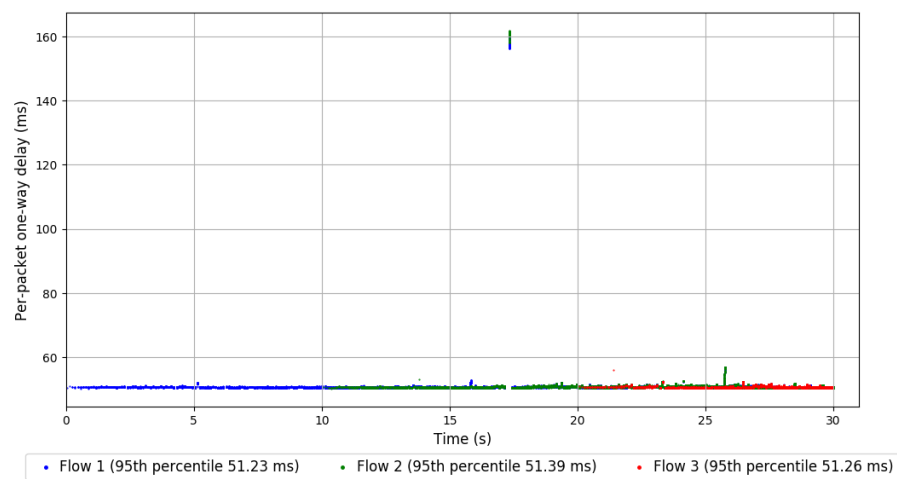
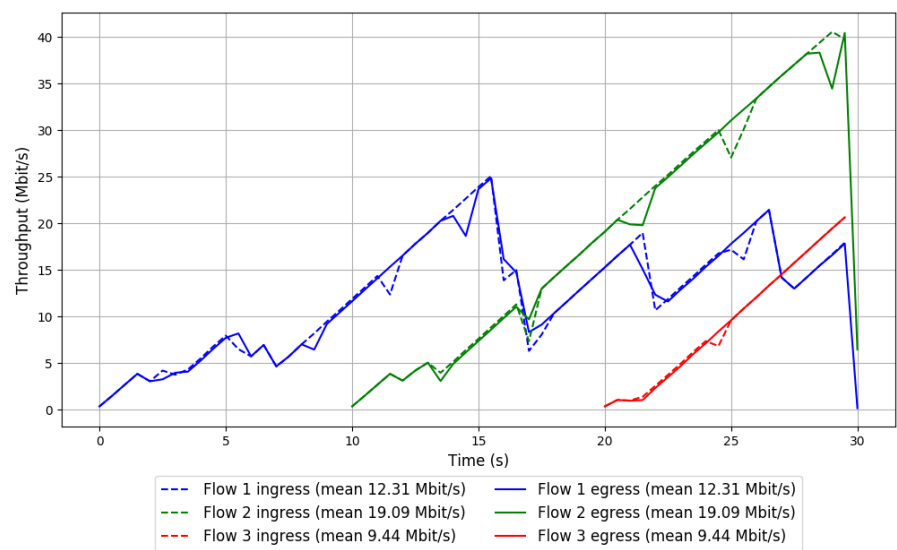
-- Flow 3:

Average throughput: 9.44 Mbit/s

95th percentile per-packet one-way delay: 51.260 ms

Loss rate: 0.00%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2017-10-12 14:12:41

End at: 2017-10-12 14:13:11

Below is generated by plot.py at 2017-10-12 16:22:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 27.13 Mbit/s

95th percentile per-packet one-way delay: 51.097 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 11.91 Mbit/s

95th percentile per-packet one-way delay: 51.118 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 18.25 Mbit/s

95th percentile per-packet one-way delay: 50.997 ms

Loss rate: 0.04%

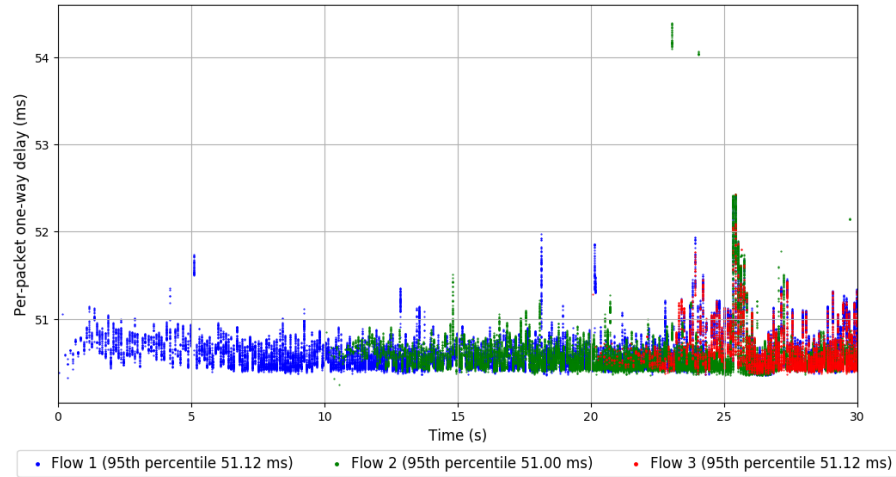
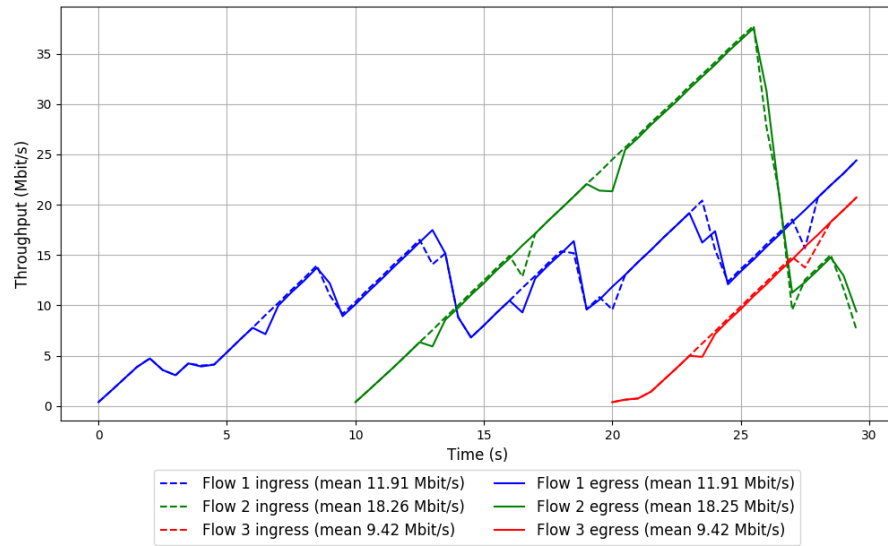
-- Flow 3:

Average throughput: 9.42 Mbit/s

95th percentile per-packet one-way delay: 51.124 ms

Loss rate: 0.00%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2017-10-12 14:25:17

End at: 2017-10-12 14:25:47

Below is generated by plot.py at 2017-10-12 16:22:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 21.90 Mbit/s

95th percentile per-packet one-way delay: 50.081 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 9.79 Mbit/s

95th percentile per-packet one-way delay: 50.109 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 13.86 Mbit/s

95th percentile per-packet one-way delay: 50.046 ms

Loss rate: 0.00%

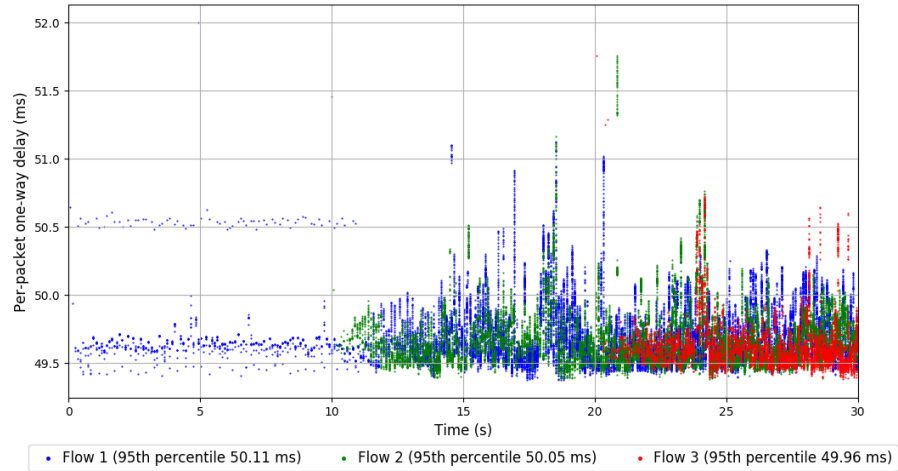
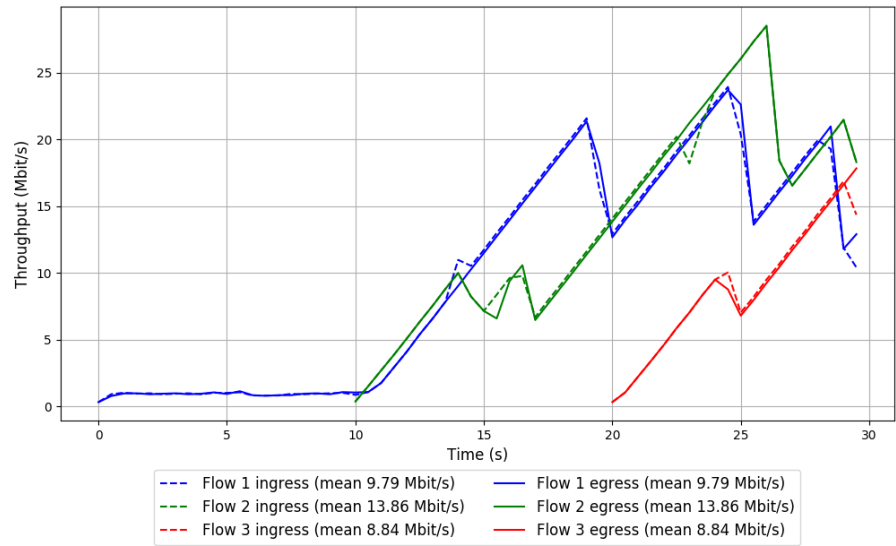
-- Flow 3:

Average throughput: 8.84 Mbit/s

95th percentile per-packet one-way delay: 49.957 ms

Loss rate: 0.00%

Run 10: Report of LEDBAT — Data Link

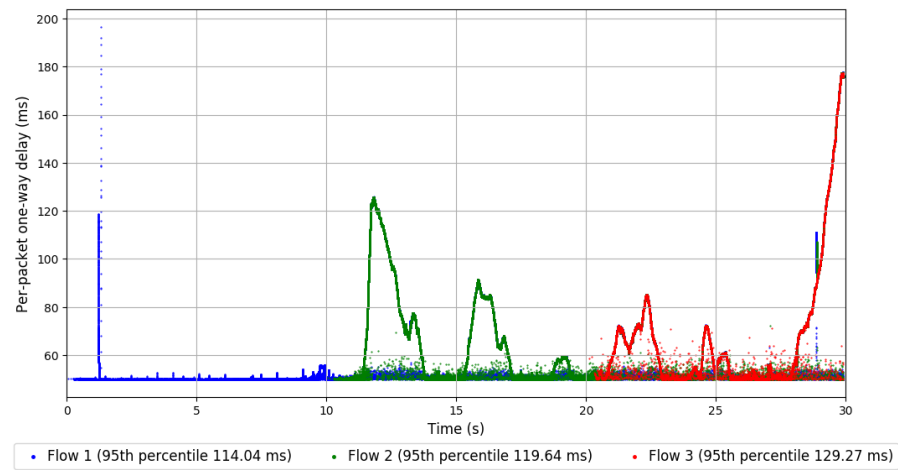
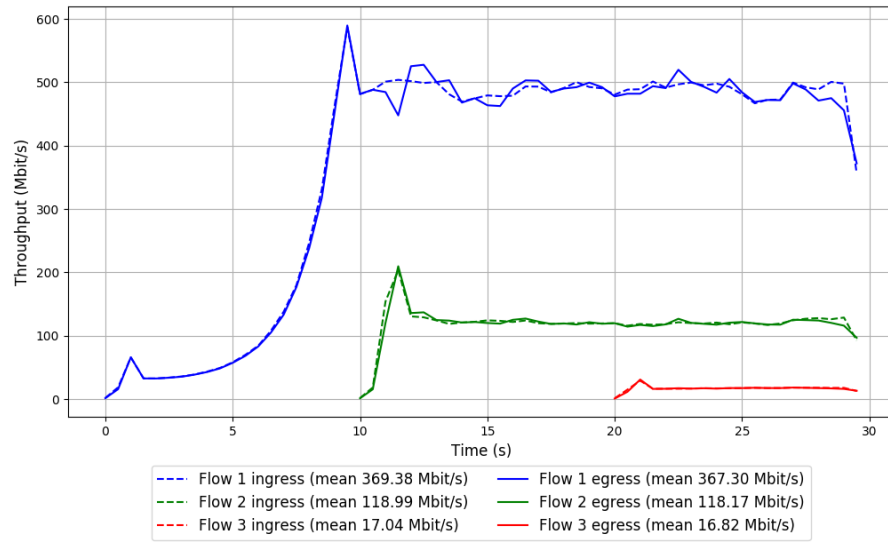


```
Run 1: Statistics of PCC

Start at: 2017-10-12 12:35:43
End at: 2017-10-12 12:36:13

# Below is generated by plot.py at 2017-10-12 16:27:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 451.36 Mbit/s
95th percentile per-packet one-way delay: 115.485 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 367.30 Mbit/s
95th percentile per-packet one-way delay: 114.041 ms
Loss rate: 0.56%
-- Flow 2:
Average throughput: 118.17 Mbit/s
95th percentile per-packet one-way delay: 119.643 ms
Loss rate: 0.69%
-- Flow 3:
Average throughput: 16.82 Mbit/s
95th percentile per-packet one-way delay: 129.273 ms
Loss rate: 1.42%
```

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2017-10-12 12:48:11

End at: 2017-10-12 12:48:41

Below is generated by plot.py at 2017-10-12 16:30:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 592.86 Mbit/s

95th percentile per-packet one-way delay: 169.331 ms

Loss rate: 3.19%

-- Flow 1:

Average throughput: 552.82 Mbit/s

95th percentile per-packet one-way delay: 169.271 ms

Loss rate: 3.08%

-- Flow 2:

Average throughput: 31.81 Mbit/s

95th percentile per-packet one-way delay: 167.799 ms

Loss rate: 3.95%

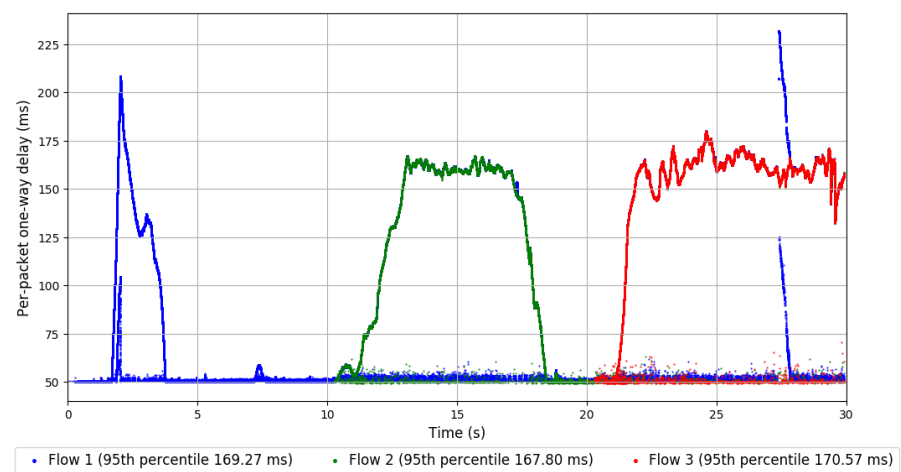
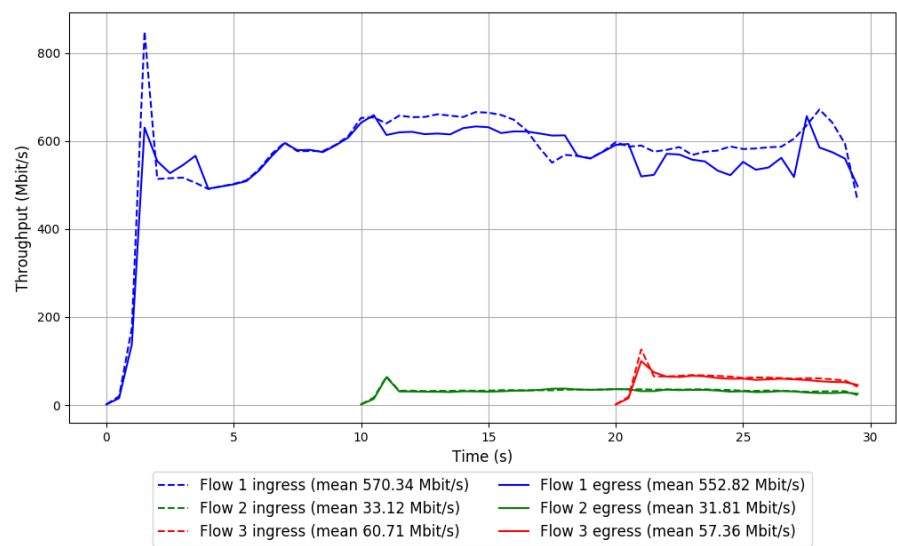
-- Flow 3:

Average throughput: 57.36 Mbit/s

95th percentile per-packet one-way delay: 170.567 ms

Loss rate: 5.54%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2017-10-12 13:00:39

End at: 2017-10-12 13:01:09

Below is generated by plot.py at 2017-10-12 16:31:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 588.85 Mbit/s

95th percentile per-packet one-way delay: 170.445 ms

Loss rate: 1.50%

-- Flow 1:

Average throughput: 527.73 Mbit/s

95th percentile per-packet one-way delay: 170.406 ms

Loss rate: 1.42%

-- Flow 2:

Average throughput: 62.67 Mbit/s

95th percentile per-packet one-way delay: 170.676 ms

Loss rate: 1.92%

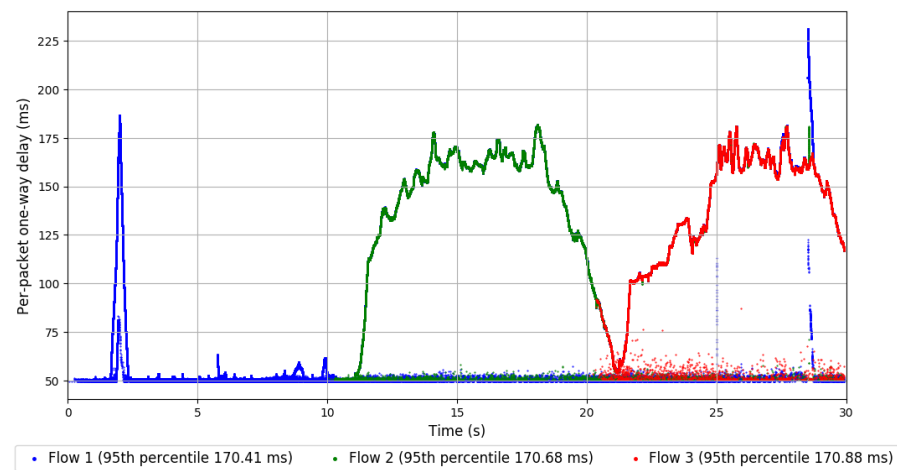
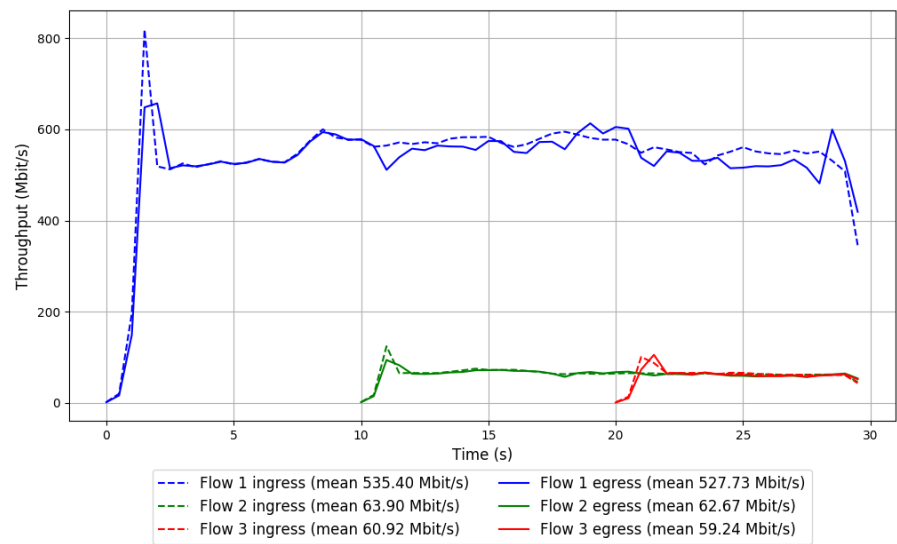
-- Flow 3:

Average throughput: 59.24 Mbit/s

95th percentile per-packet one-way delay: 170.879 ms

Loss rate: 2.77%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2017-10-12 13:13:05

End at: 2017-10-12 13:13:35

Below is generated by plot.py at 2017-10-12 16:31:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 577.27 Mbit/s

95th percentile per-packet one-way delay: 169.784 ms

Loss rate: 1.35%

-- Flow 1:

Average throughput: 484.56 Mbit/s

95th percentile per-packet one-way delay: 169.724 ms

Loss rate: 1.34%

-- Flow 2:

Average throughput: 131.17 Mbit/s

95th percentile per-packet one-way delay: 170.357 ms

Loss rate: 1.50%

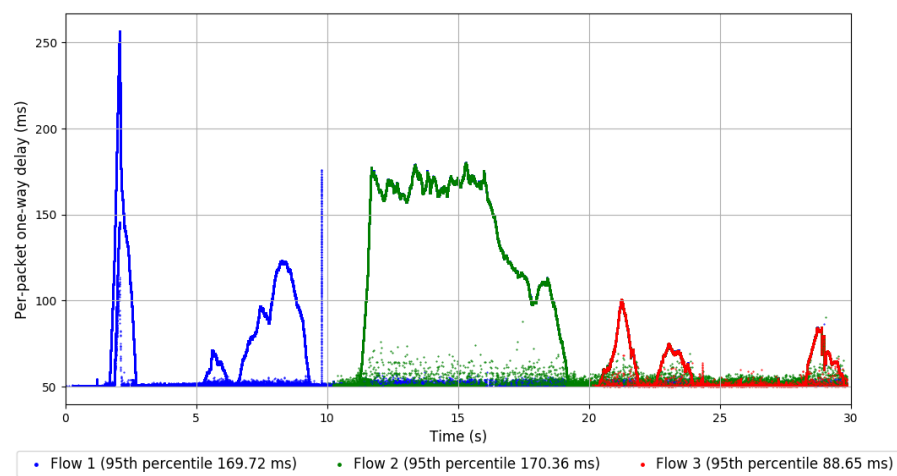
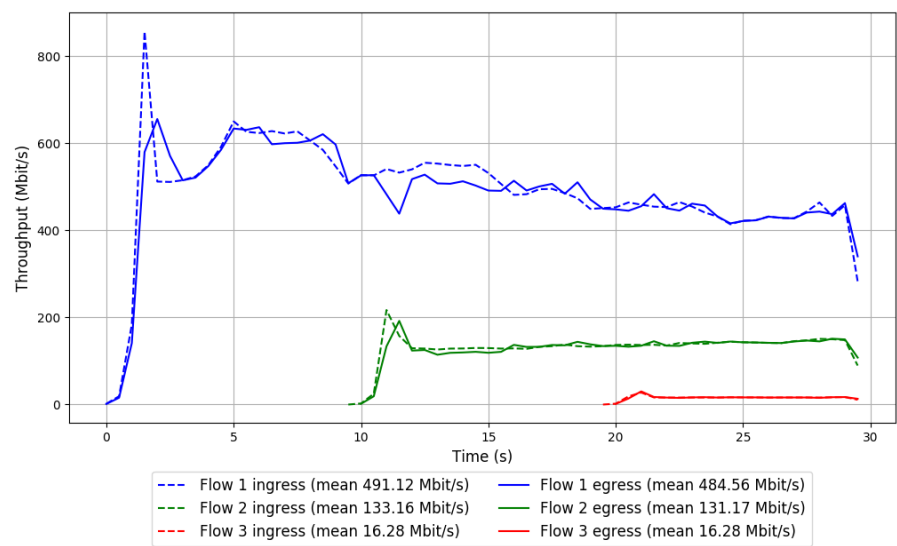
-- Flow 3:

Average throughput: 16.28 Mbit/s

95th percentile per-packet one-way delay: 88.648 ms

Loss rate: 0.01%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2017-10-12 13:25:31

End at: 2017-10-12 13:26:01

Below is generated by plot.py at 2017-10-12 16:32:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 557.91 Mbit/s

95th percentile per-packet one-way delay: 183.259 ms

Loss rate: 1.85%

-- Flow 1:

Average throughput: 554.12 Mbit/s

95th percentile per-packet one-way delay: 183.263 ms

Loss rate: 1.85%

-- Flow 2:

Average throughput: 4.48 Mbit/s

95th percentile per-packet one-way delay: 183.686 ms

Loss rate: 1.46%

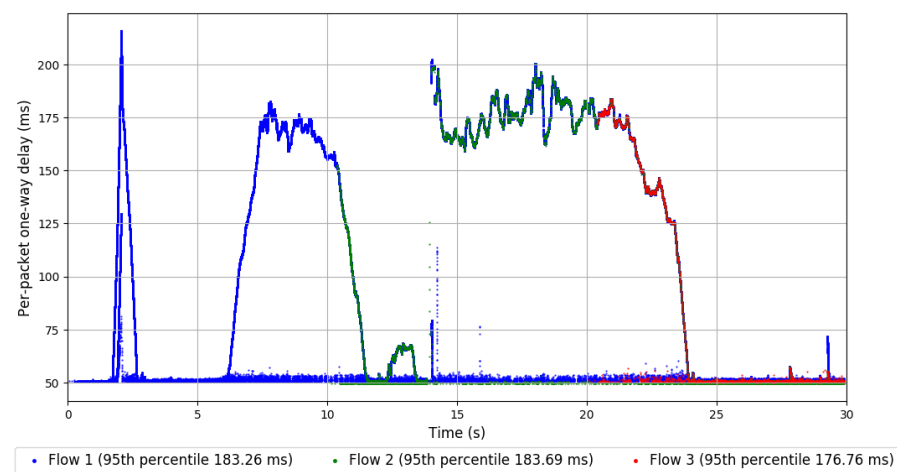
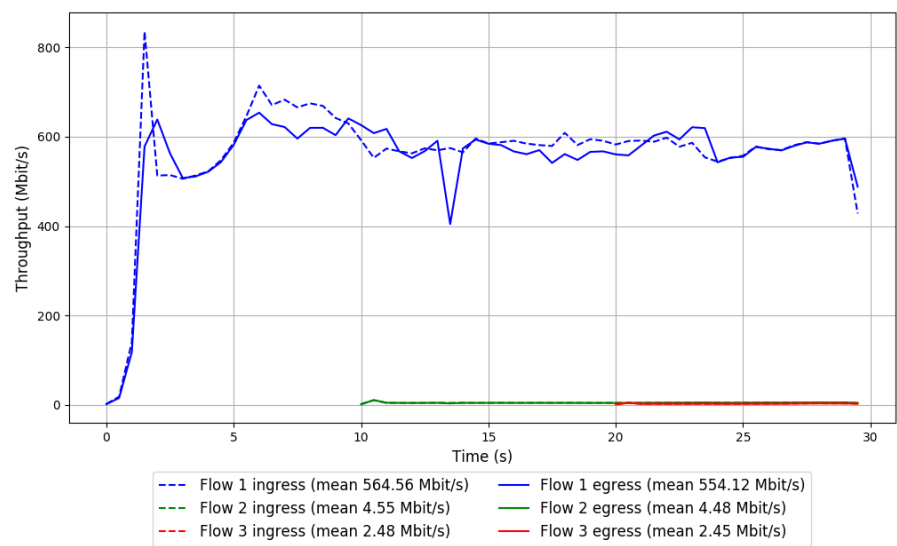
-- Flow 3:

Average throughput: 2.45 Mbit/s

95th percentile per-packet one-way delay: 176.761 ms

Loss rate: 1.03%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2017-10-12 13:37:59

End at: 2017-10-12 13:38:29

Below is generated by plot.py at 2017-10-12 16:32:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 564.53 Mbit/s

95th percentile per-packet one-way delay: 124.224 ms

Loss rate: 0.18%

-- Flow 1:

Average throughput: 550.33 Mbit/s

95th percentile per-packet one-way delay: 124.497 ms

Loss rate: 0.18%

-- Flow 2:

Average throughput: 4.93 Mbit/s

95th percentile per-packet one-way delay: 127.269 ms

Loss rate: 0.07%

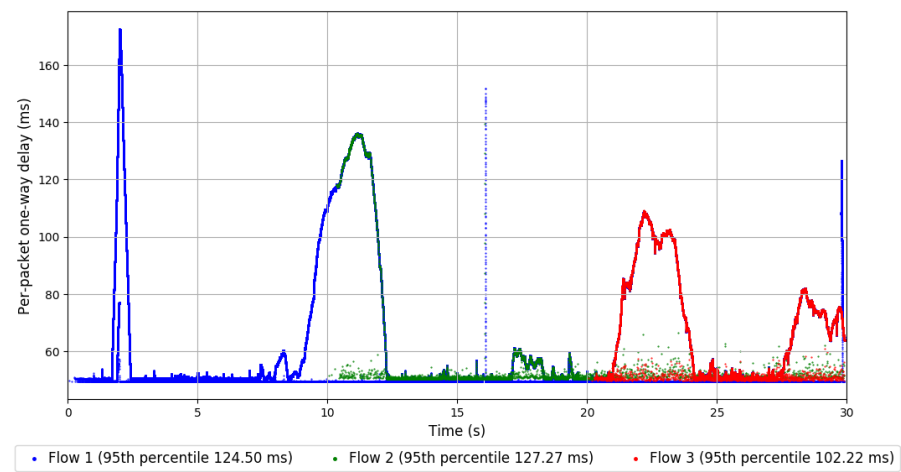
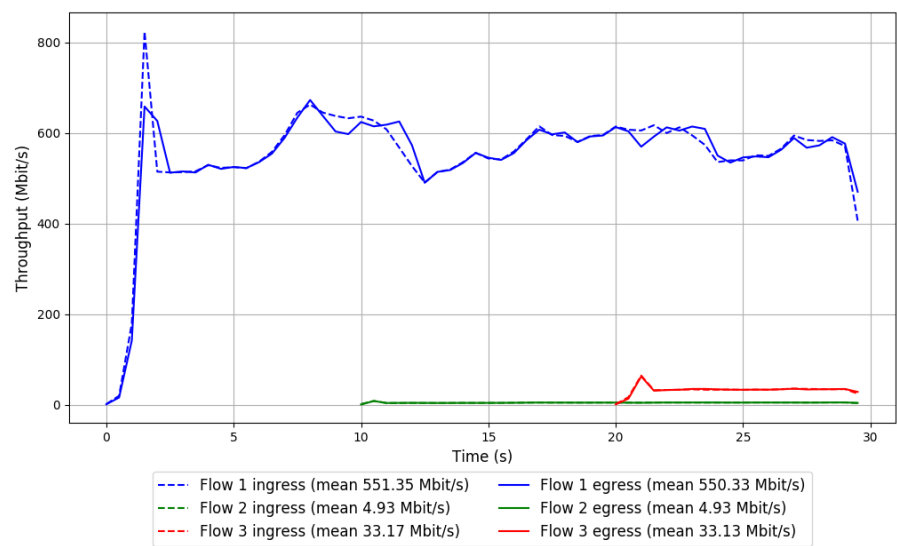
-- Flow 3:

Average throughput: 33.13 Mbit/s

95th percentile per-packet one-way delay: 102.219 ms

Loss rate: 0.14%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2017-10-12 13:50:35

End at: 2017-10-12 13:51:05

Below is generated by plot.py at 2017-10-12 16:32:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 585.07 Mbit/s

95th percentile per-packet one-way delay: 110.014 ms

Loss rate: 0.21%

-- Flow 1:

Average throughput: 580.78 Mbit/s

95th percentile per-packet one-way delay: 110.084 ms

Loss rate: 0.21%

-- Flow 2:

Average throughput: 4.19 Mbit/s

95th percentile per-packet one-way delay: 102.339 ms

Loss rate: 0.00%

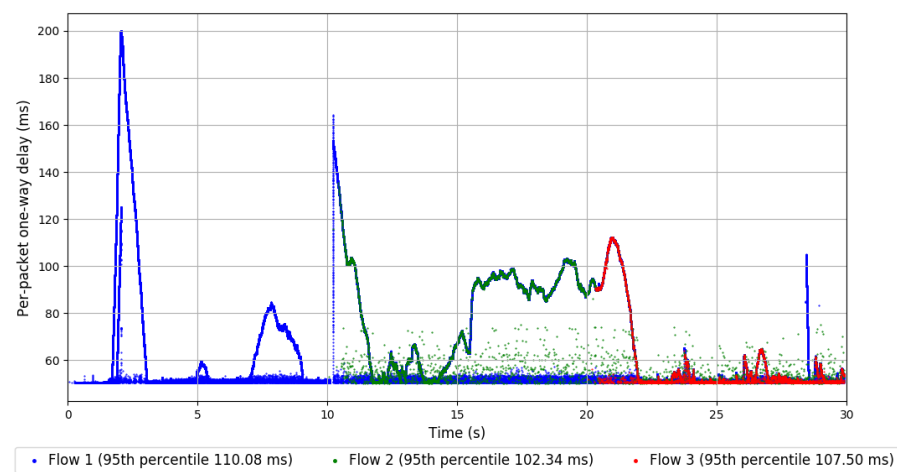
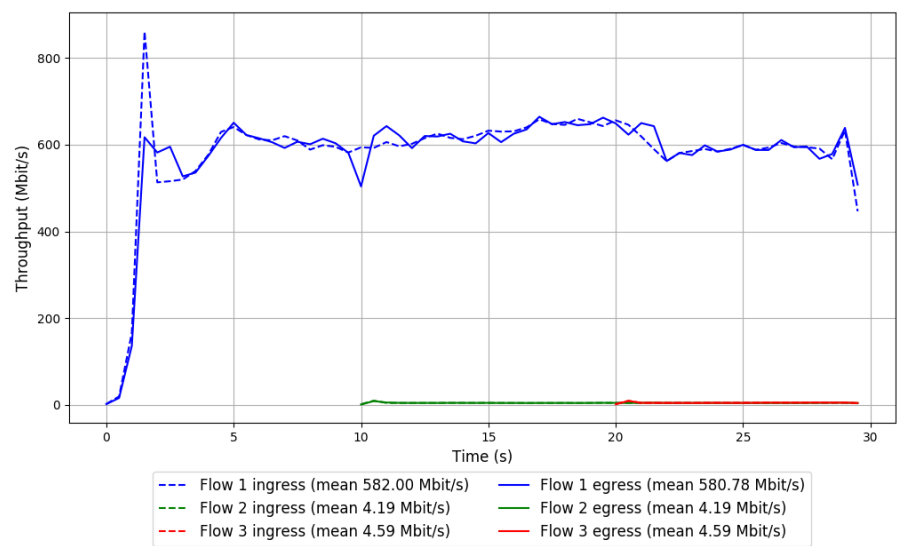
-- Flow 3:

Average throughput: 4.59 Mbit/s

95th percentile per-packet one-way delay: 107.500 ms

Loss rate: 0.03%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2017-10-12 14:03:11

End at: 2017-10-12 14:03:41

Below is generated by plot.py at 2017-10-12 16:33:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 555.99 Mbit/s

95th percentile per-packet one-way delay: 179.551 ms

Loss rate: 1.91%

-- Flow 1:

Average throughput: 535.12 Mbit/s

95th percentile per-packet one-way delay: 179.615 ms

Loss rate: 1.86%

-- Flow 2:

Average throughput: 4.35 Mbit/s

95th percentile per-packet one-way delay: 179.852 ms

Loss rate: 2.83%

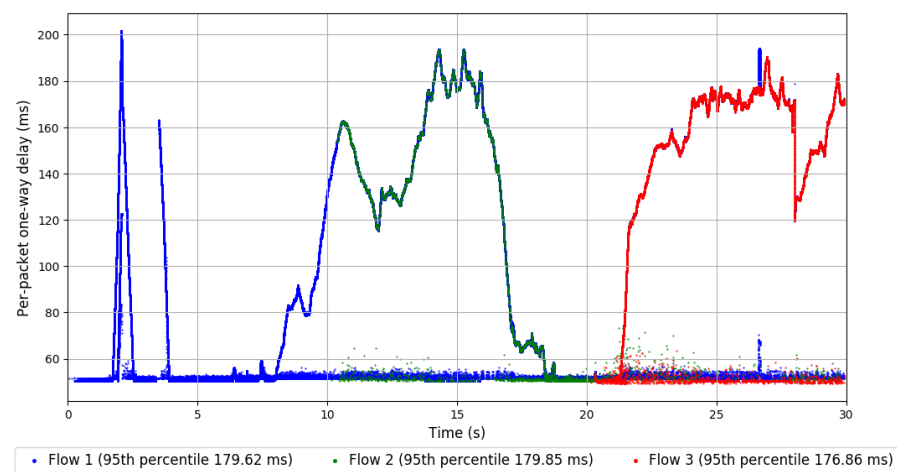
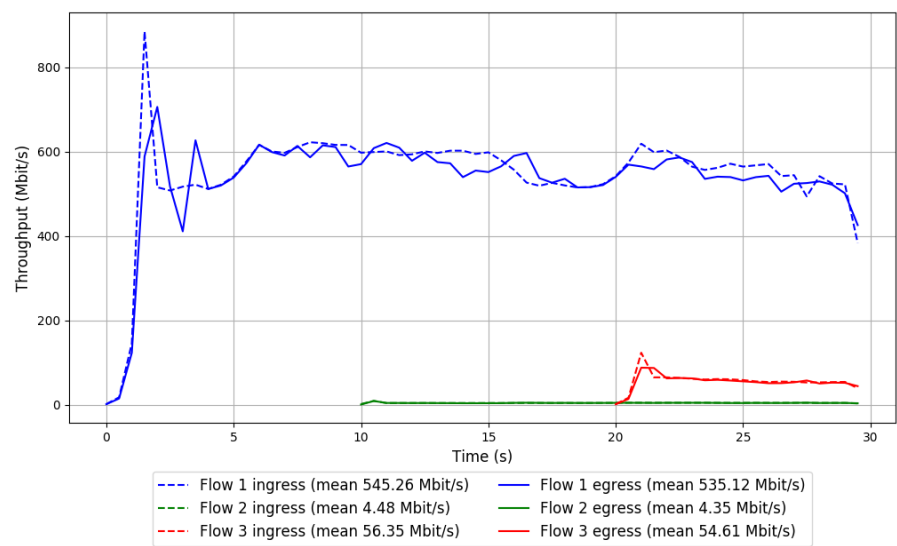
-- Flow 3:

Average throughput: 54.61 Mbit/s

95th percentile per-packet one-way delay: 176.856 ms

Loss rate: 3.09%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2017-10-12 14:15:49

End at: 2017-10-12 14:16:19

Below is generated by plot.py at 2017-10-12 16:39:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 570.38 Mbit/s

95th percentile per-packet one-way delay: 179.101 ms

Loss rate: 1.46%

-- Flow 1:

Average throughput: 549.38 Mbit/s

95th percentile per-packet one-way delay: 179.054 ms

Loss rate: 1.45%

-- Flow 2:

Average throughput: 29.62 Mbit/s

95th percentile per-packet one-way delay: 179.520 ms

Loss rate: 1.79%

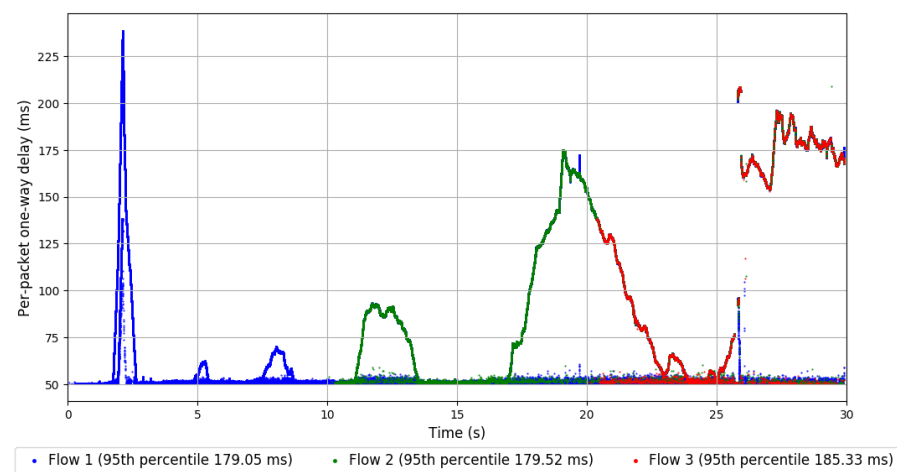
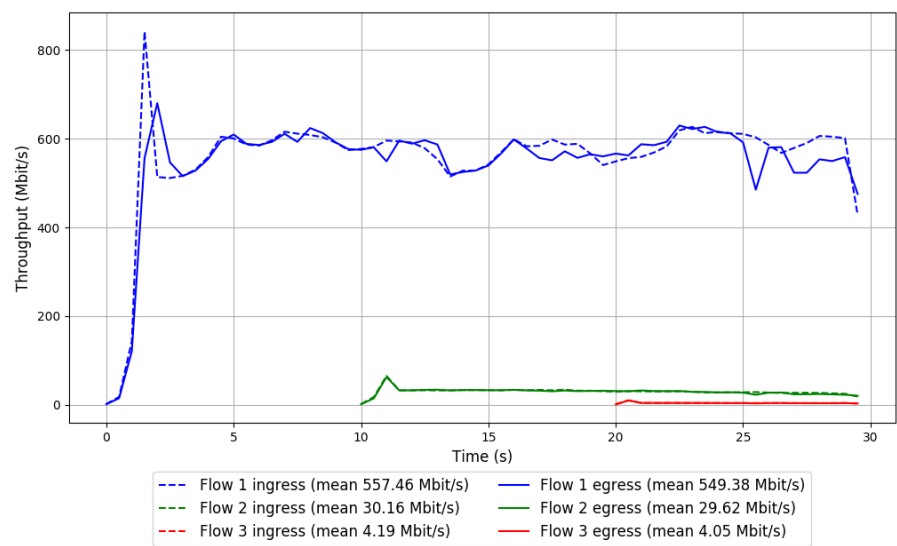
-- Flow 3:

Average throughput: 4.05 Mbit/s

95th percentile per-packet one-way delay: 185.331 ms

Loss rate: 3.20%

Run 9: Report of PCC — Data Link

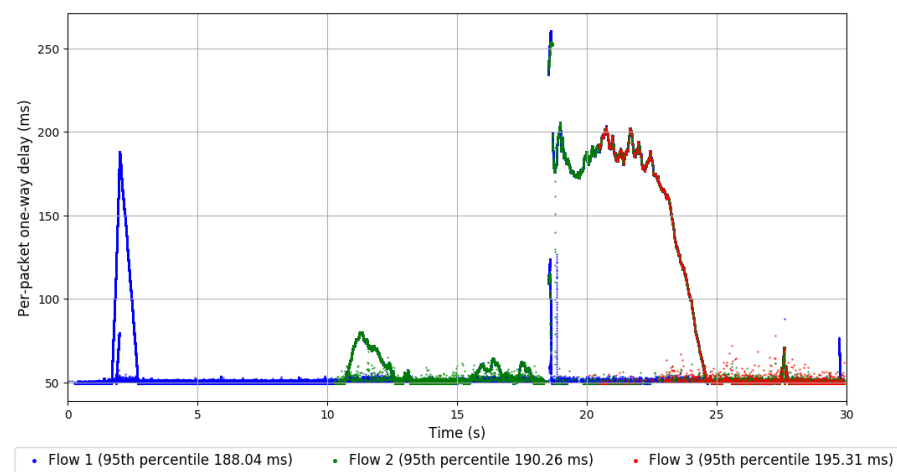
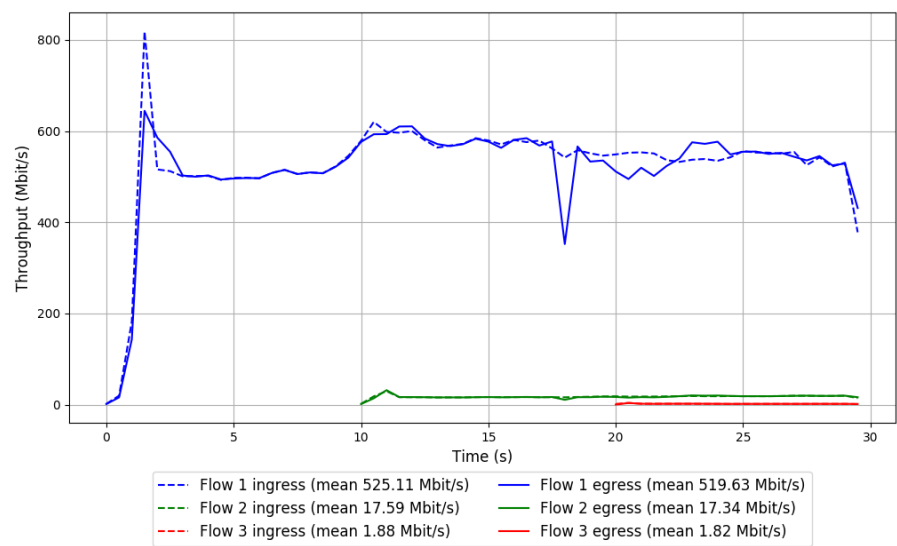


```
Run 10: Statistics of PCC

Start at: 2017-10-12 14:28:26
End at: 2017-10-12 14:28:56

# Below is generated by plot.py at 2017-10-12 16:40:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 531.76 Mbit/s
95th percentile per-packet one-way delay: 188.099 ms
Loss rate: 1.06%
-- Flow 1:
Average throughput: 519.63 Mbit/s
95th percentile per-packet one-way delay: 188.040 ms
Loss rate: 1.05%
-- Flow 2:
Average throughput: 17.34 Mbit/s
95th percentile per-packet one-way delay: 190.256 ms
Loss rate: 1.48%
-- Flow 3:
Average throughput: 1.82 Mbit/s
95th percentile per-packet one-way delay: 195.310 ms
Loss rate: 3.38%
```

Run 10: Report of PCC — Data Link

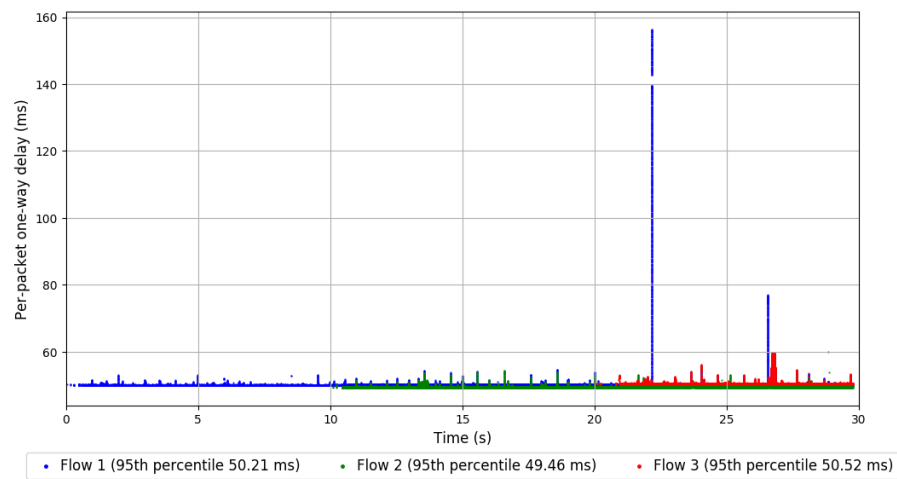
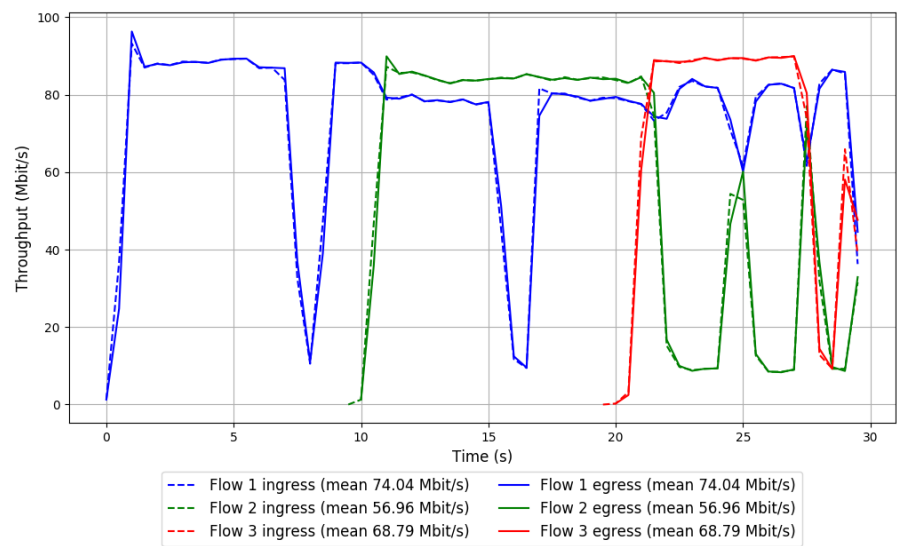


```
Run 1: Statistics of QUIC Cubic

Start at: 2017-10-12 12:33:53
End at: 2017-10-12 12:34:23

# Below is generated by plot.py at 2017-10-12 16:40:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 134.51 Mbit/s
95th percentile per-packet one-way delay: 50.418 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 74.04 Mbit/s
95th percentile per-packet one-way delay: 50.212 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 56.96 Mbit/s
95th percentile per-packet one-way delay: 49.463 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 68.79 Mbit/s
95th percentile per-packet one-way delay: 50.520 ms
Loss rate: 0.00%
```


Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2017-10-12 12:46:20

End at: 2017-10-12 12:46:50

Below is generated by plot.py at 2017-10-12 16:40:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 128.12 Mbit/s

95th percentile per-packet one-way delay: 50.585 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 66.92 Mbit/s

95th percentile per-packet one-way delay: 50.601 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 68.88 Mbit/s

95th percentile per-packet one-way delay: 50.504 ms

Loss rate: 0.00%

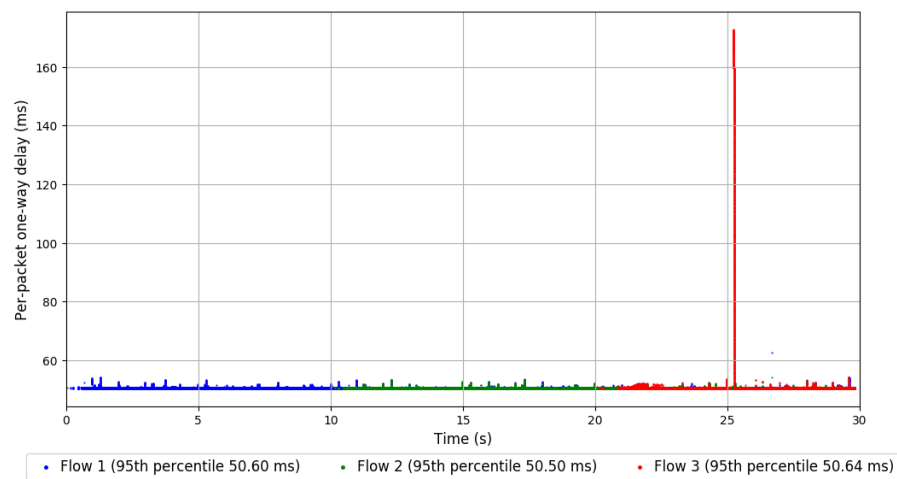
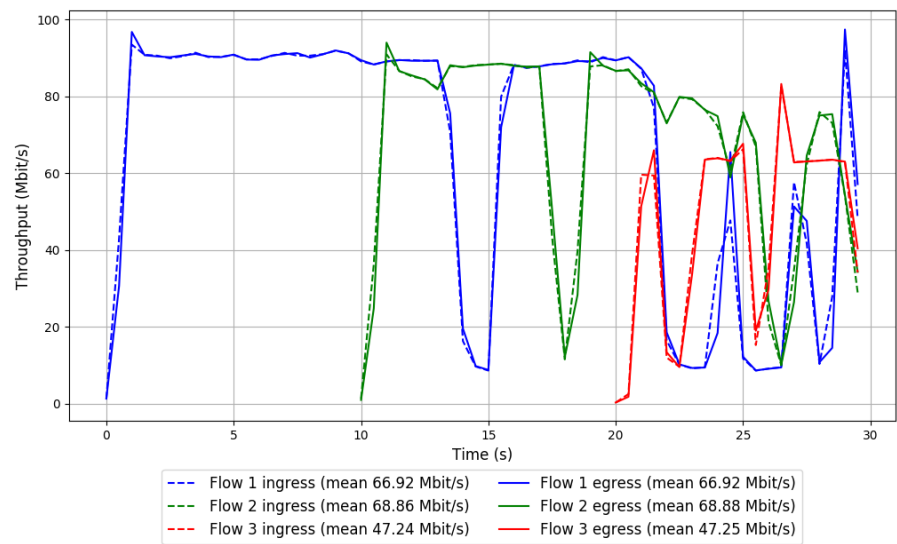
-- Flow 3:

Average throughput: 47.25 Mbit/s

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

Loss rate: 0.00%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2017-10-12 12:58:49

End at: 2017-10-12 12:59:19

Below is generated by plot.py at 2017-10-12 16:40:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 115.80 Mbit/s

95th percentile per-packet one-way delay: 50.488 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 67.09 Mbit/s

95th percentile per-packet one-way delay: 50.458 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 45.42 Mbit/s

95th percentile per-packet one-way delay: 49.589 ms

Loss rate: 0.00%

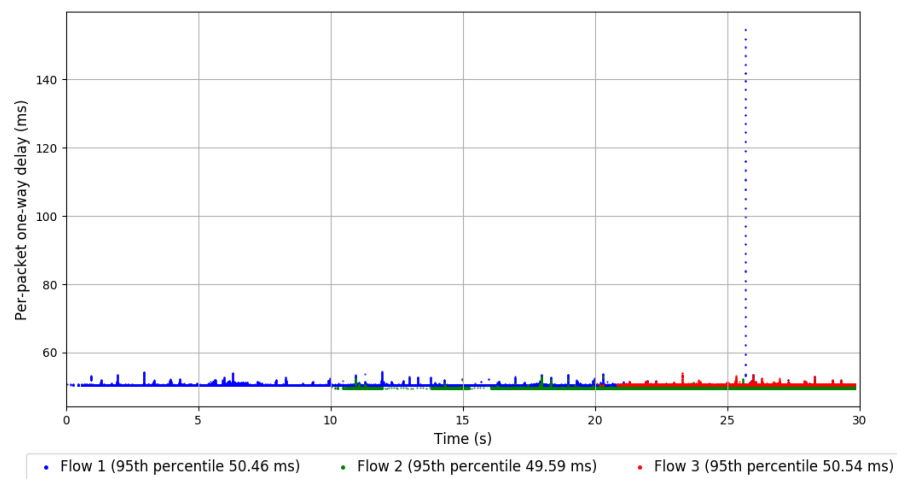
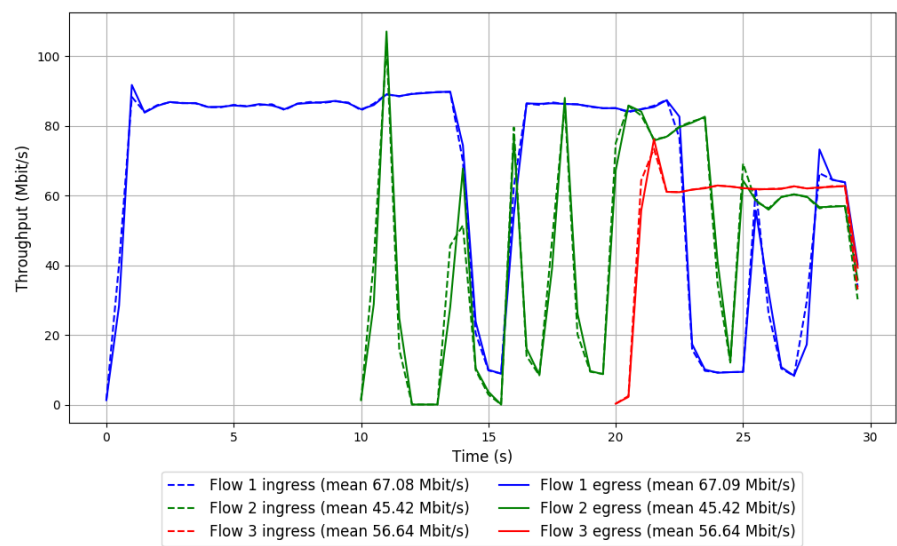
-- Flow 3:

Average throughput: 56.64 Mbit/s

95th percentile per-packet one-way delay: 50.542 ms

Loss rate: 0.00%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2017-10-12 13:11:15

End at: 2017-10-12 13:11:45

Below is generated by plot.py at 2017-10-12 16:40:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 128.25 Mbit/s

95th percentile per-packet one-way delay: 51.448 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 67.44 Mbit/s

95th percentile per-packet one-way delay: 50.520 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 62.98 Mbit/s

95th percentile per-packet one-way delay: 51.488 ms

Loss rate: 0.00%

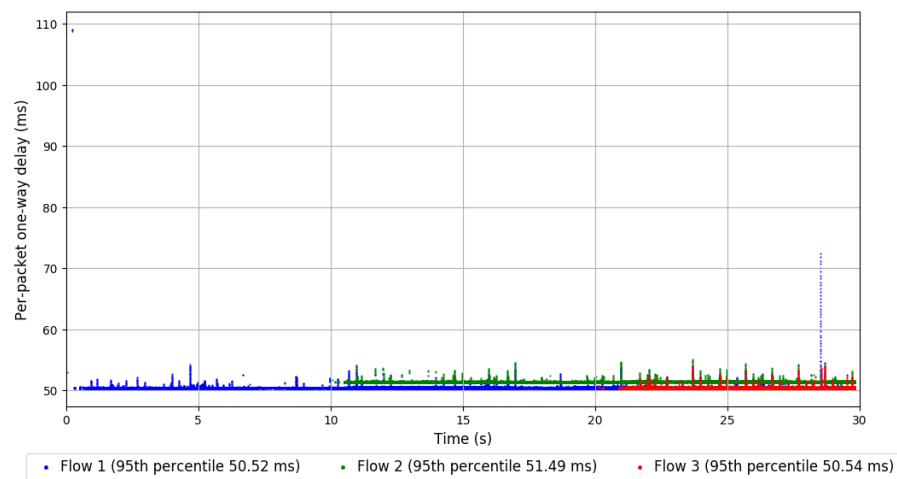
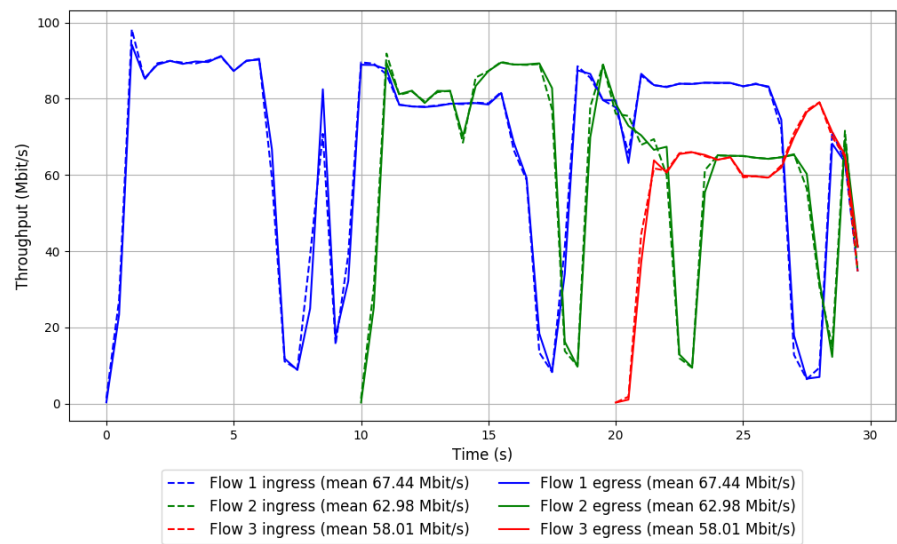
-- Flow 3:

Average throughput: 58.01 Mbit/s

95th percentile per-packet one-way delay: 50.540 ms

Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2017-10-12 13:23:45

End at: 2017-10-12 13:24:15

Below is generated by plot.py at 2017-10-12 16:40:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 123.76 Mbit/s

95th percentile per-packet one-way delay: 50.896 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 59.89 Mbit/s

95th percentile per-packet one-way delay: 50.206 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 64.70 Mbit/s

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

Loss rate: 0.00%

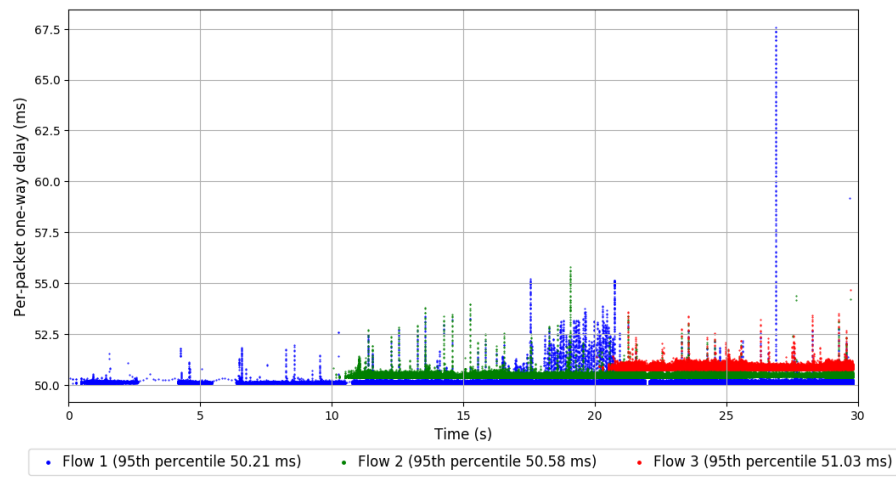
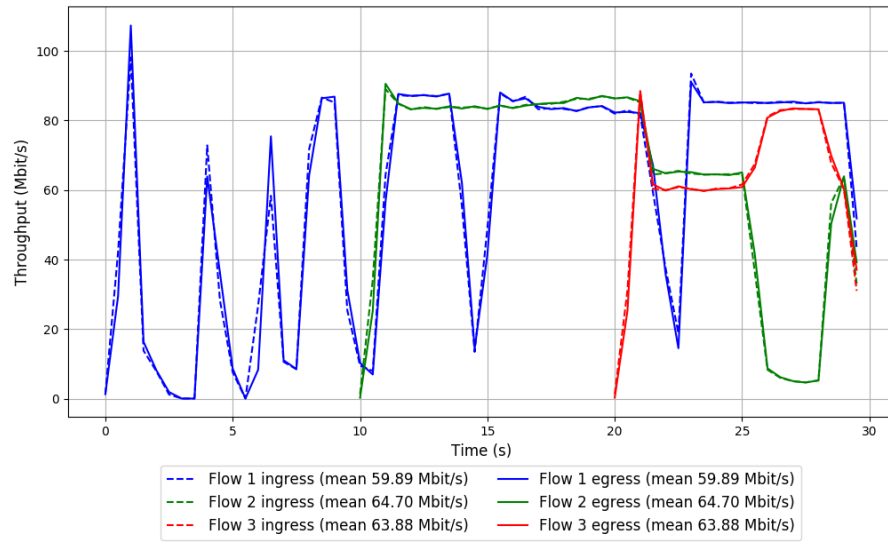
-- Flow 3:

Average throughput: 63.88 Mbit/s

95th percentile per-packet one-way delay: 51.030 ms

Loss rate: 0.01%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2017-10-12 13:36:15

End at: 2017-10-12 13:36:45

Below is generated by plot.py at 2017-10-12 16:40:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 110.74 Mbit/s

95th percentile per-packet one-way delay: 50.994 ms

Loss rate: 0.26%

-- Flow 1:

Average throughput: 54.81 Mbit/s

95th percentile per-packet one-way delay: 50.948 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 45.81 Mbit/s

95th percentile per-packet one-way delay: 50.994 ms

Loss rate: 0.00%

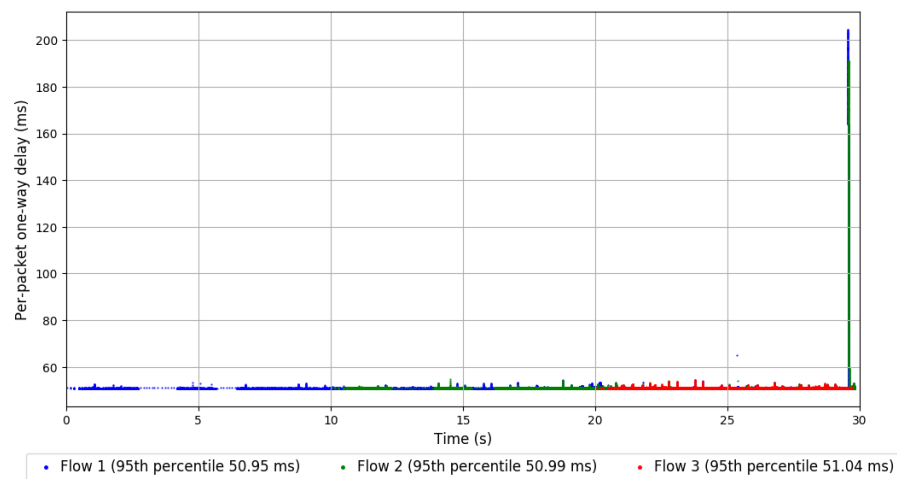
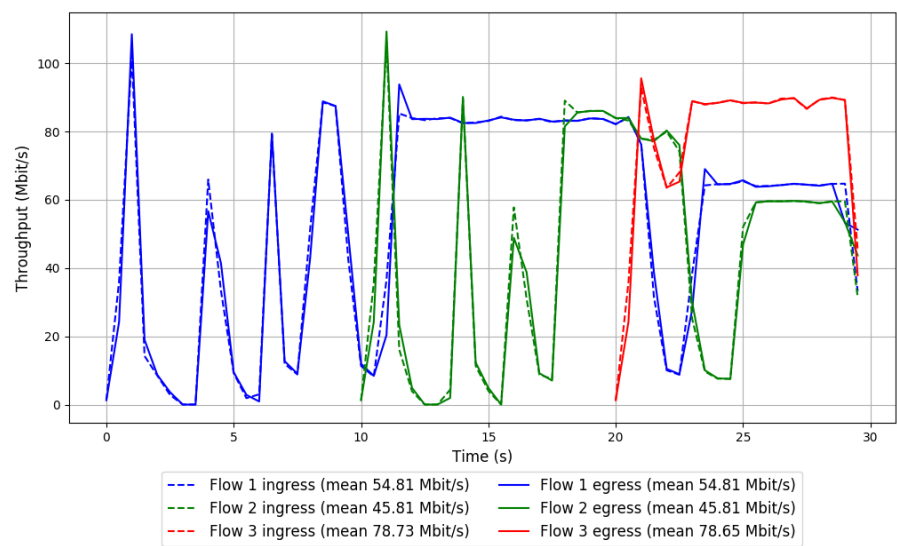
-- Flow 3:

Average throughput: 78.65 Mbit/s

95th percentile per-packet one-way delay: 51.038 ms

Loss rate: 1.10%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2017-10-12 13:48:41

End at: 2017-10-12 13:49:11

Below is generated by plot.py at 2017-10-12 16:40:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 136.79 Mbit/s

95th percentile per-packet one-way delay: 50.606 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 71.99 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 70.21 Mbit/s

95th percentile per-packet one-way delay: 50.637 ms

Loss rate: 0.00%

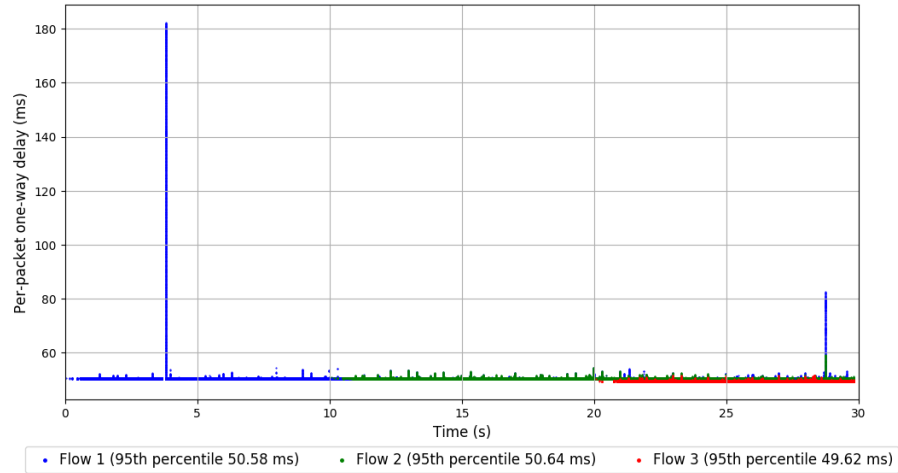
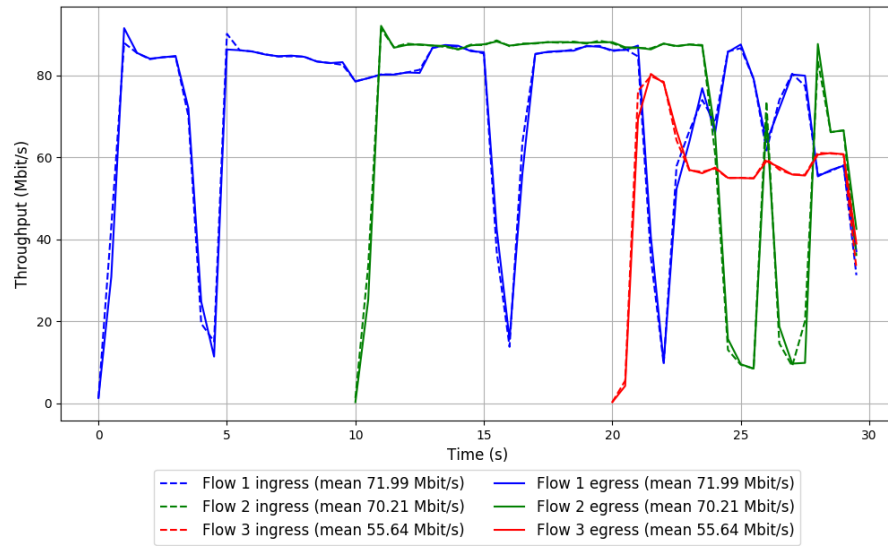
-- Flow 3:

Average throughput: 55.64 Mbit/s

95th percentile per-packet one-way delay: 49.619 ms

Loss rate: 0.00%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2017-10-12 14:01:19

End at: 2017-10-12 14:01:49

Below is generated by plot.py at 2017-10-12 16:40:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 104.92 Mbit/s

95th percentile per-packet one-way delay: 50.680 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 51.82 Mbit/s

95th percentile per-packet one-way delay: 50.730 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 49.40 Mbit/s

95th percentile per-packet one-way delay: 50.541 ms

Loss rate: 0.00%

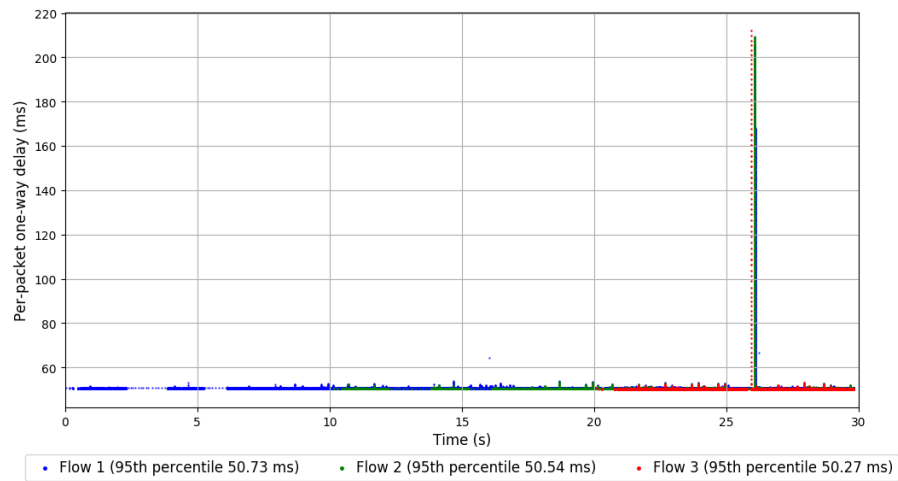
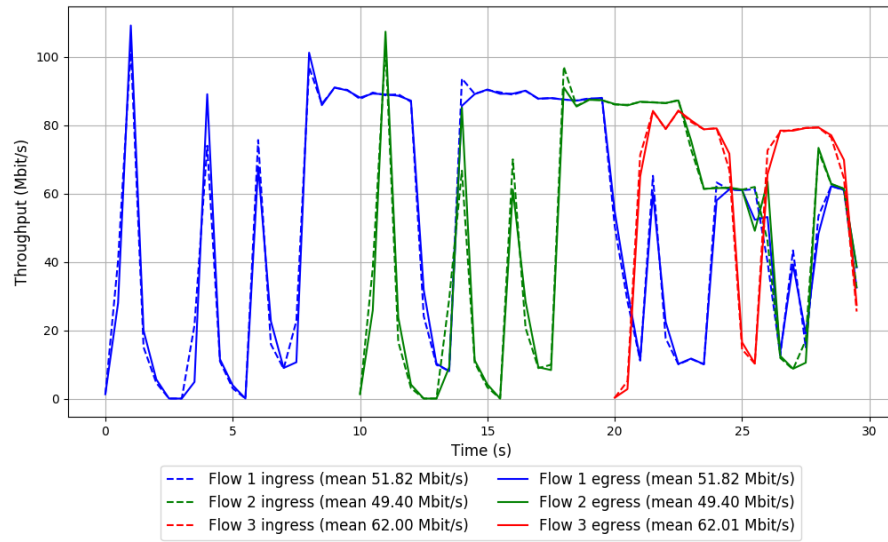
-- Flow 3:

Average throughput: 62.01 Mbit/s

95th percentile per-packet one-way delay: 50.268 ms

Loss rate: 0.00%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2017-10-12 14:14:03

End at: 2017-10-12 14:14:33

Below is generated by plot.py at 2017-10-12 16:40:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 121.42 Mbit/s

95th percentile per-packet one-way delay: 51.528 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 58.93 Mbit/s

95th percentile per-packet one-way delay: 51.594 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 67.03 Mbit/s

95th percentile per-packet one-way delay: 50.732 ms

Loss rate: 0.00%

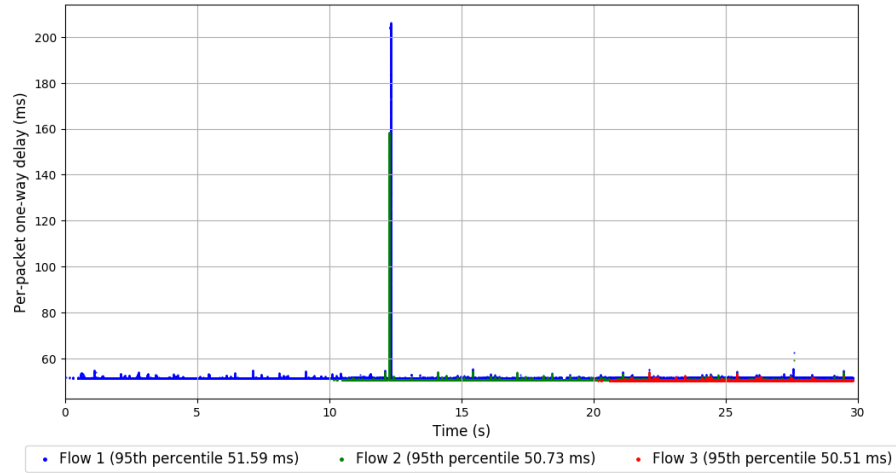
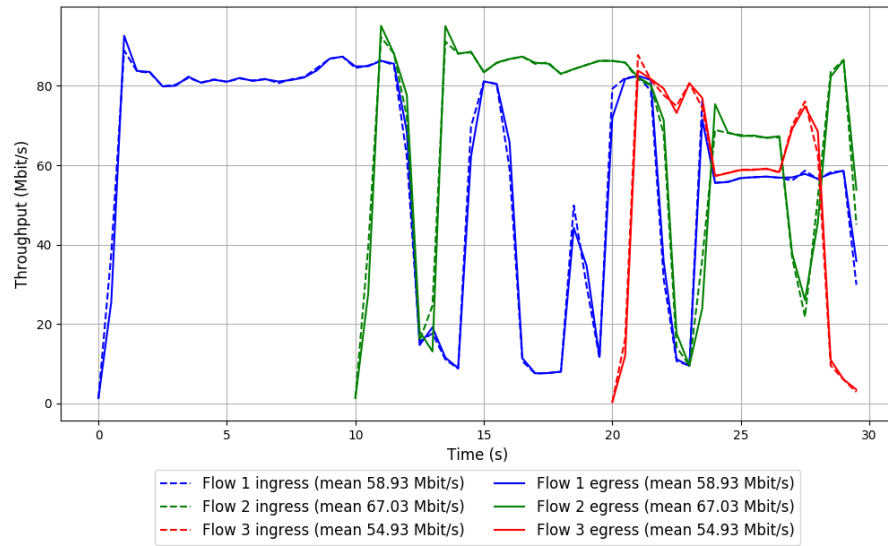
-- Flow 3:

Average throughput: 54.93 Mbit/s

95th percentile per-packet one-way delay: 50.513 ms

Loss rate: 0.00%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2017-10-12 14:26:37

End at: 2017-10-12 14:27:07

Below is generated by plot.py at 2017-10-12 16:40:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 135.60 Mbit/s

95th percentile per-packet one-way delay: 51.487 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 70.55 Mbit/s

95th percentile per-packet one-way delay: 49.587 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 67.69 Mbit/s

95th percentile per-packet one-way delay: 51.525 ms

Loss rate: 0.01%

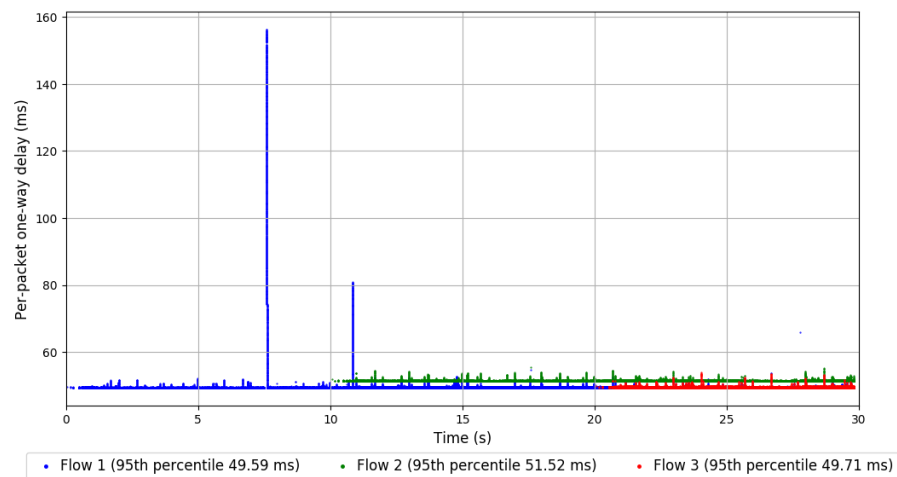
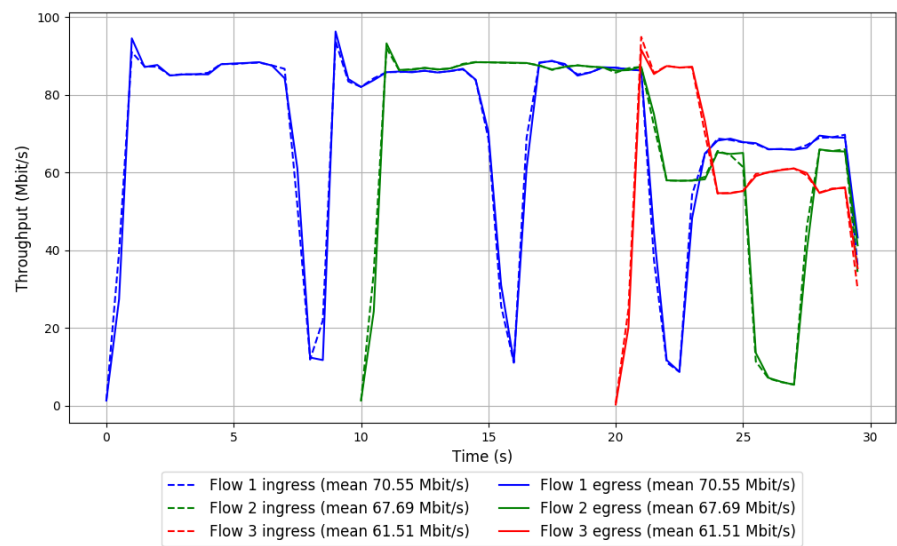
-- Flow 3:

Average throughput: 61.51 Mbit/s

95th percentile per-packet one-way delay: 49.713 ms

Loss rate: 0.00%

Run 10: Report of QUIC Cubic — Data Link

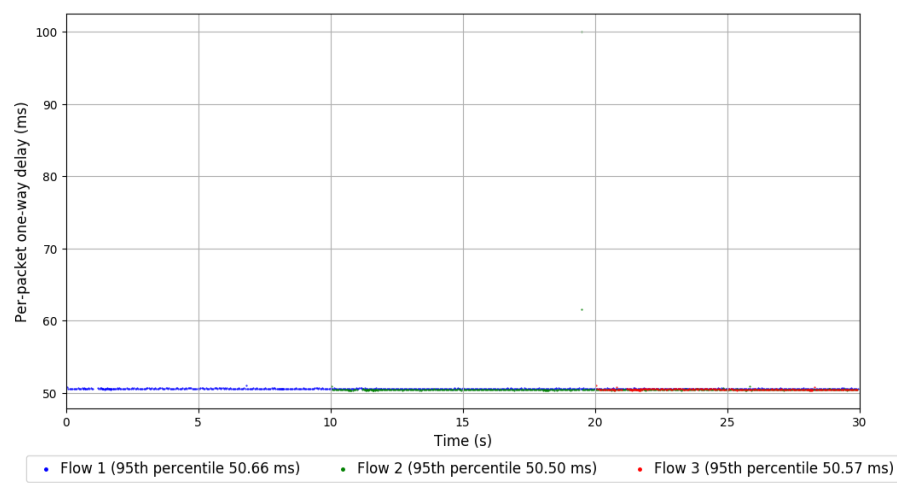
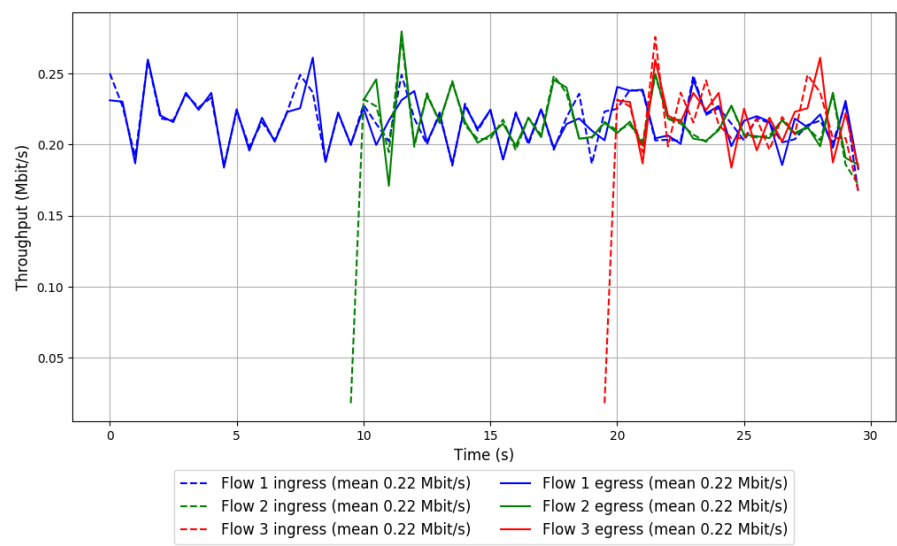


```
Run 1: Statistics of SCReAM

Start at: 2017-10-12 12:26:56
End at: 2017-10-12 12:27:26

# Below is generated by plot.py at 2017-10-12 16:40:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 50.642 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.660 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.502 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.566 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

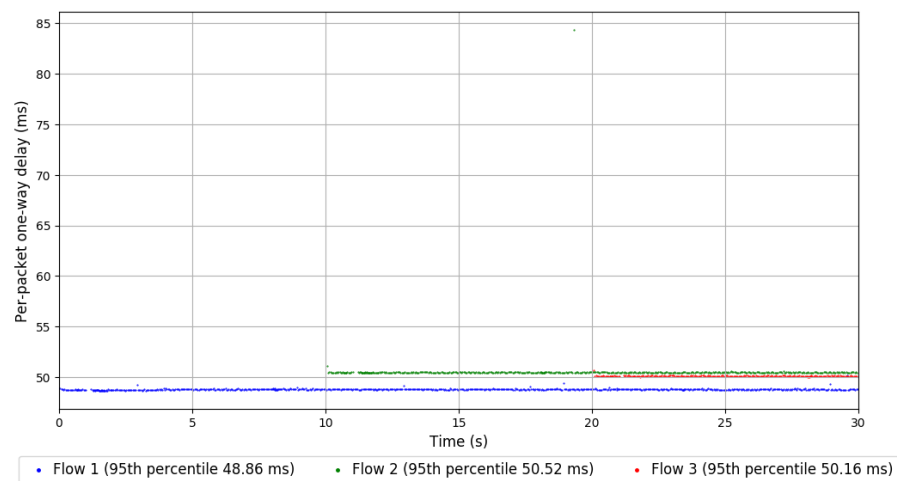
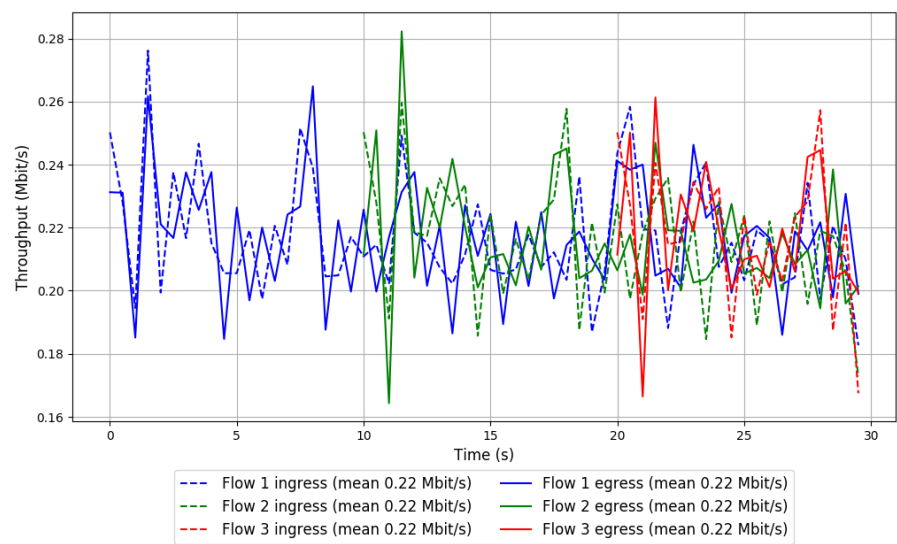


```
Run 2: Statistics of SReAM

Start at: 2017-10-12 12:39:26
End at: 2017-10-12 12:39:56

# Below is generated by plot.py at 2017-10-12 16:40:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 50.499 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 48.856 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.520 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.162 ms
Loss rate: 0.00%
```

Run 2: Report of SReAM — Data Link

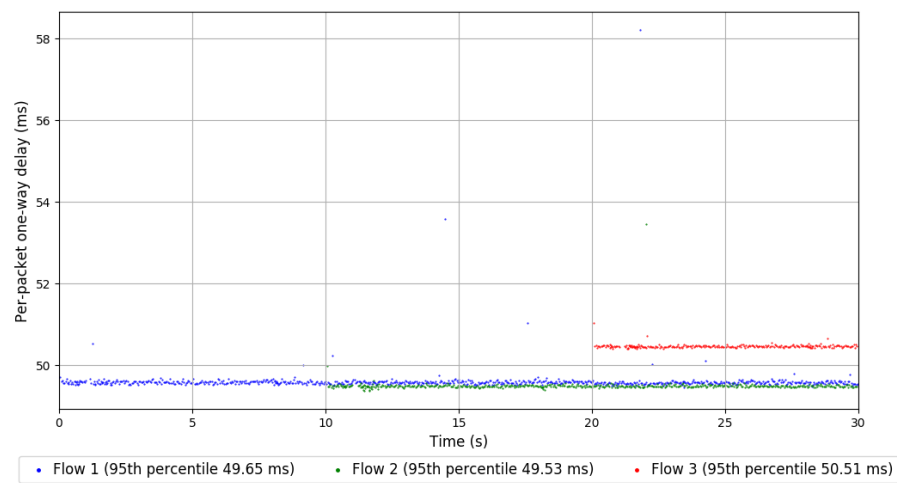
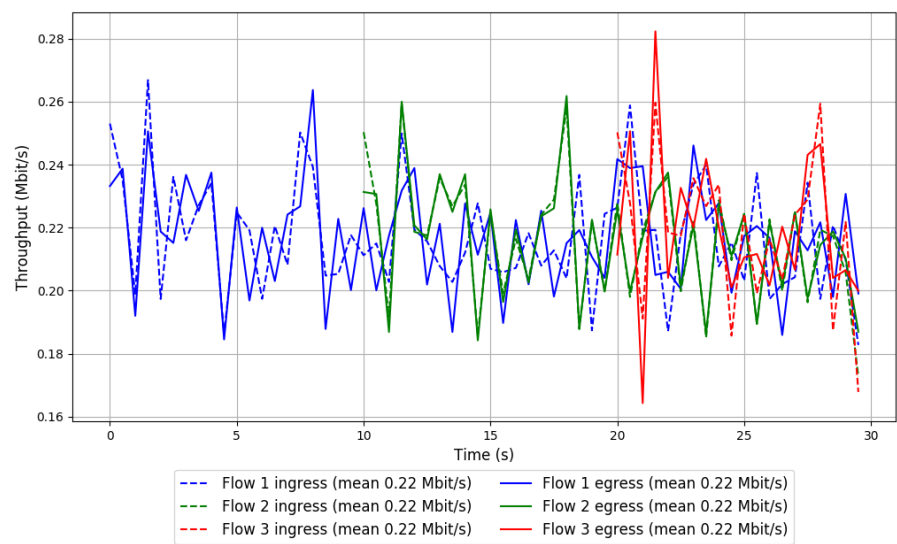


```
Run 3: Statistics of SReAM

Start at: 2017-10-12 12:51:53
End at: 2017-10-12 12:52:23

# Below is generated by plot.py at 2017-10-12 16:40:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 50.473 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 49.650 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 49.535 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.510 ms
Loss rate: 0.00%
```


Run 3: Report of SReAM — Data Link

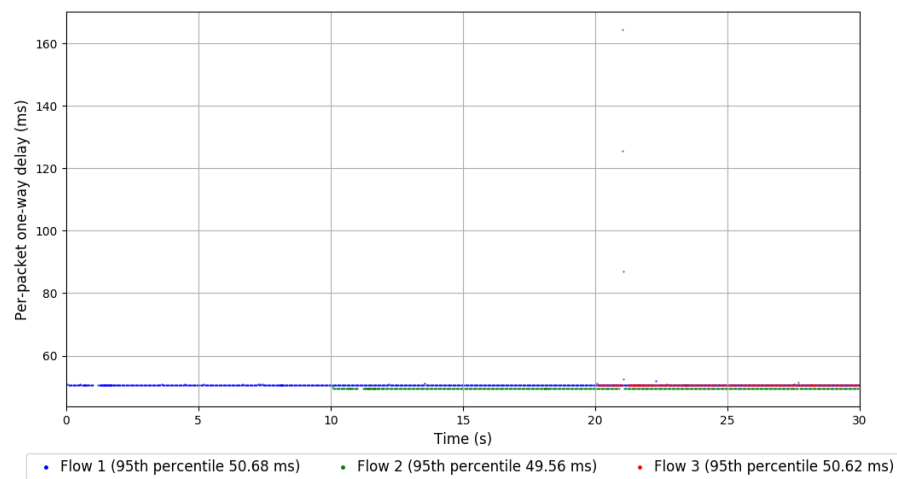
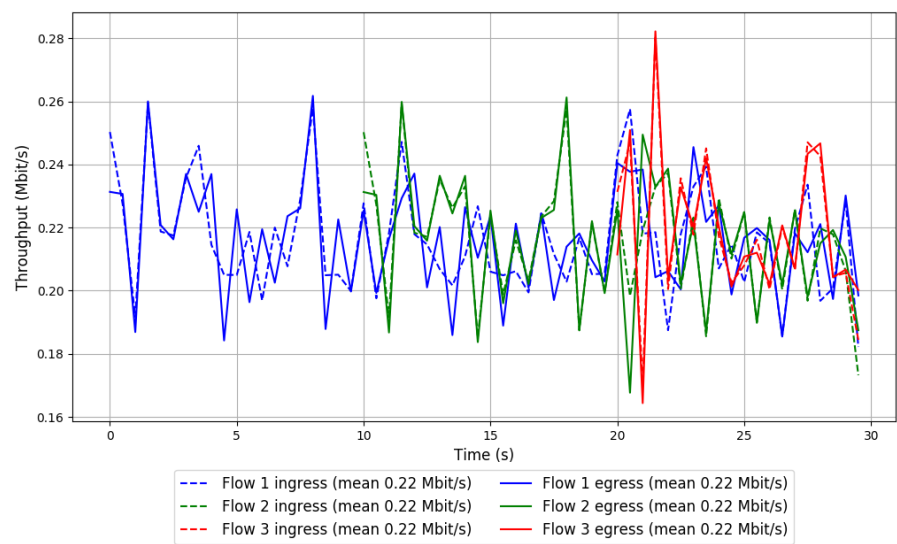


```
Run 4: Statistics of SReAM

Start at: 2017-10-12 13:04:24
End at: 2017-10-12 13:04:54

# Below is generated by plot.py at 2017-10-12 16:40:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 50.667 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.681 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 49.563 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.620 ms
Loss rate: 0.00%
```

Run 4: Report of SReAM — Data Link

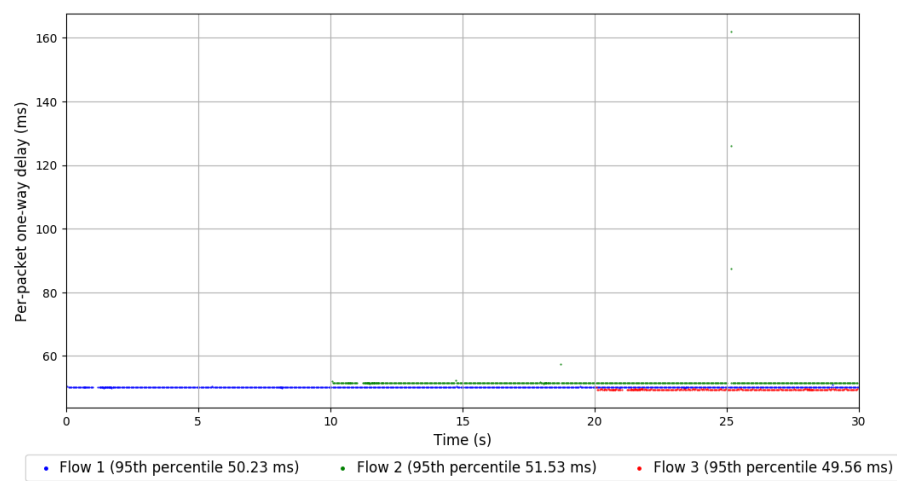
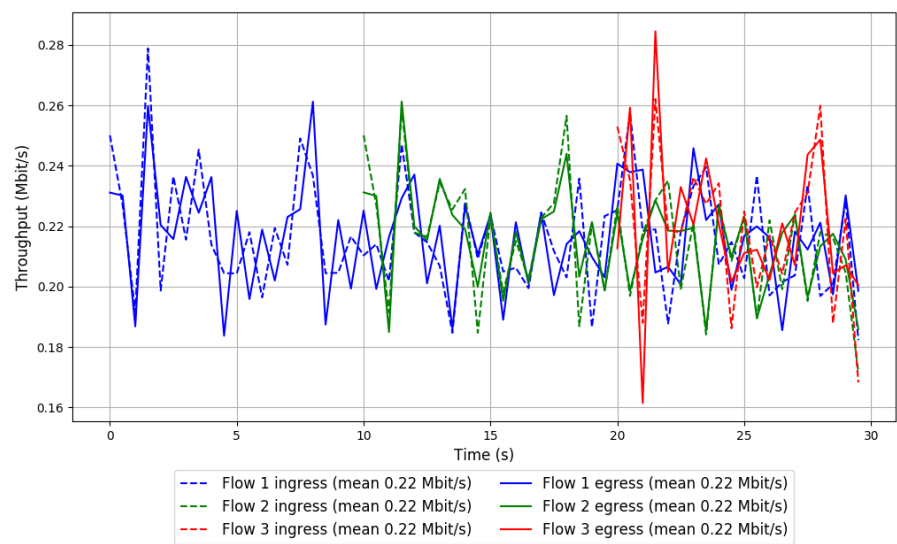


```
Run 5: Statistics of SReAM

Start at: 2017-10-12 13:16:50
End at: 2017-10-12 13:17:20

# Below is generated by plot.py at 2017-10-12 16:40:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 51.510 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.230 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 51.534 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 49.560 ms
Loss rate: 0.00%
```

Run 5: Report of SReAM — Data Link

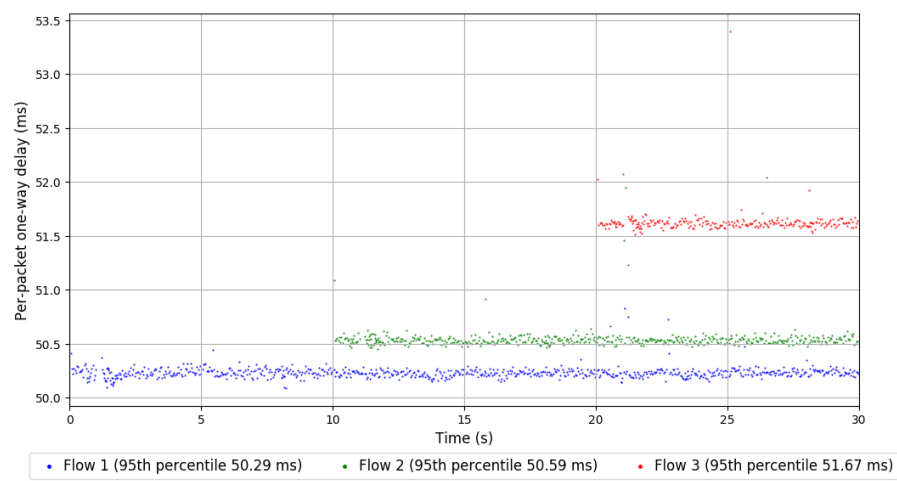
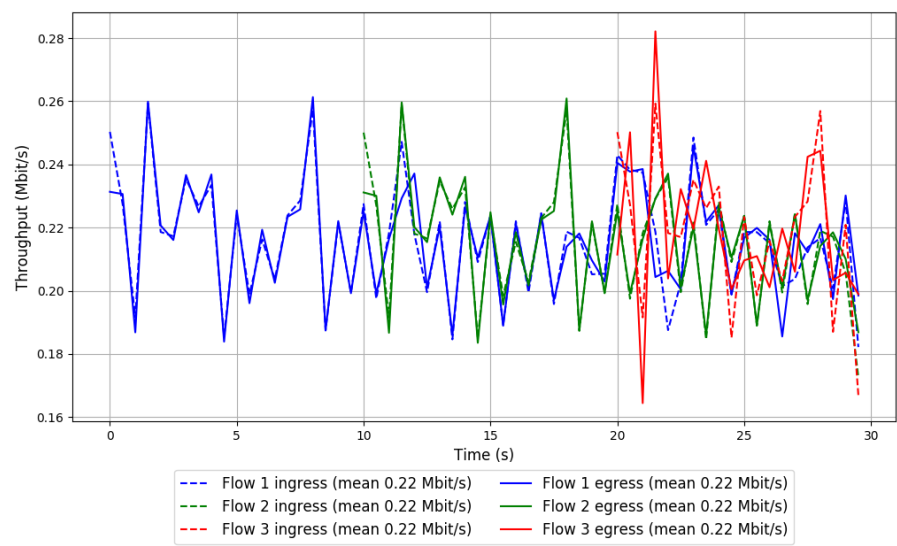


```
Run 6: Statistics of SReAM

Start at: 2017-10-12 13:29:16
End at: 2017-10-12 13:29:46

# Below is generated by plot.py at 2017-10-12 16:40:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 51.631 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.291 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.595 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 51.671 ms
Loss rate: 0.00%
```

Run 6: Report of SReAM — Data Link

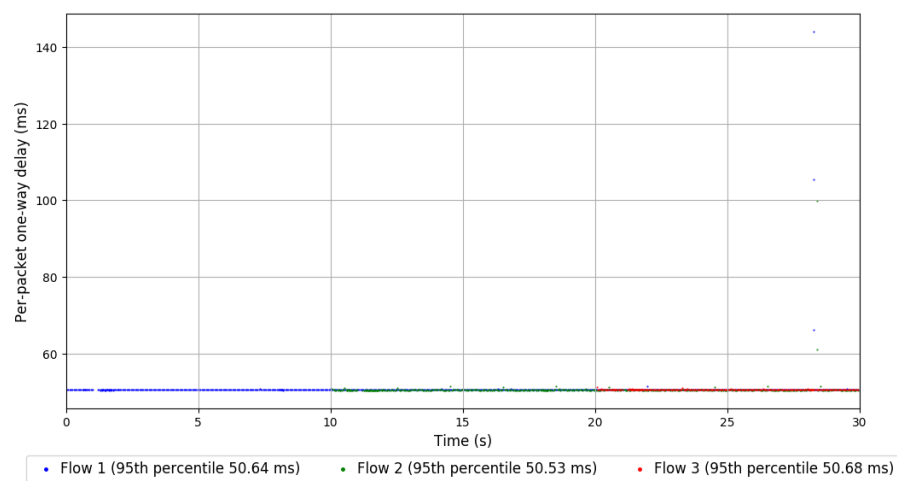
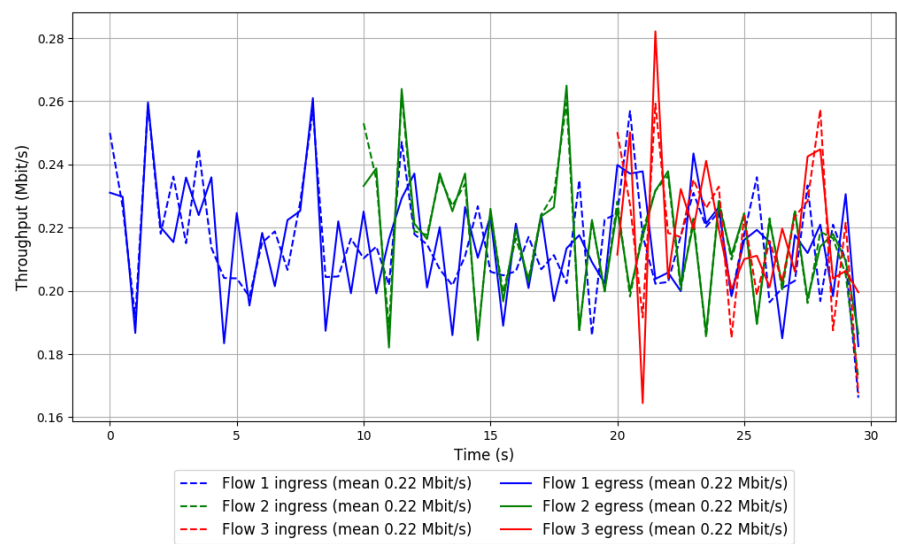


```
Run 7: Statistics of SReAM

Start at: 2017-10-12 13:41:46
End at: 2017-10-12 13:42:16

# Below is generated by plot.py at 2017-10-12 16:40:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 50.657 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.641 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.526 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.678 ms
Loss rate: 0.00%
```


Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2017-10-12 13:54:20

End at: 2017-10-12 13:54:50

Below is generated by plot.py at 2017-10-12 16:40:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 50.663 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.599 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.685 ms

Loss rate: 0.00%

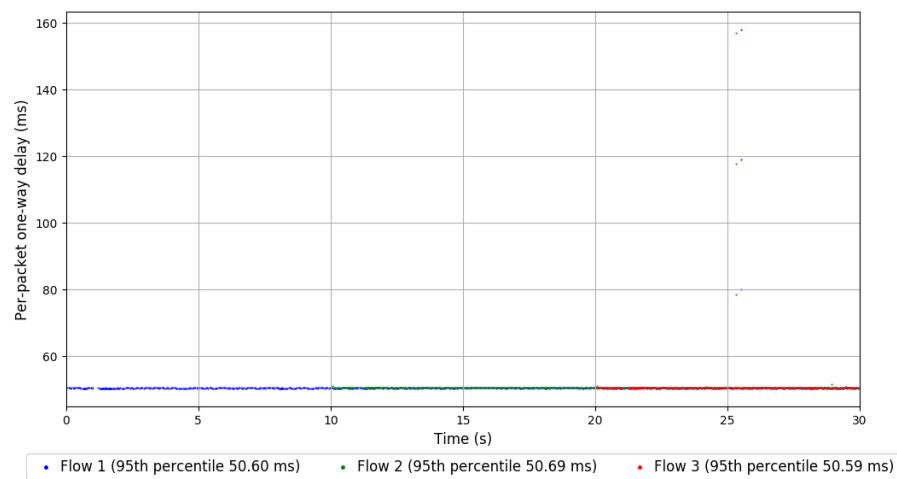
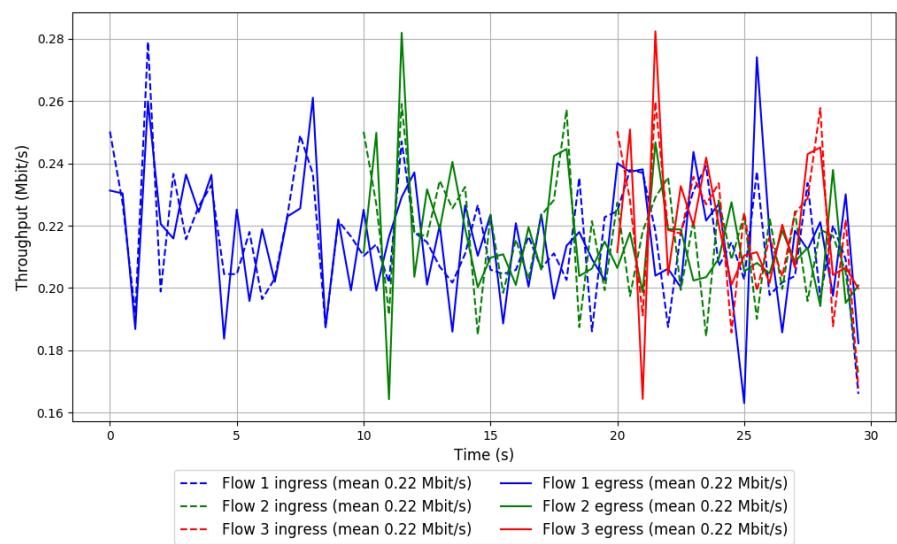
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.586 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link

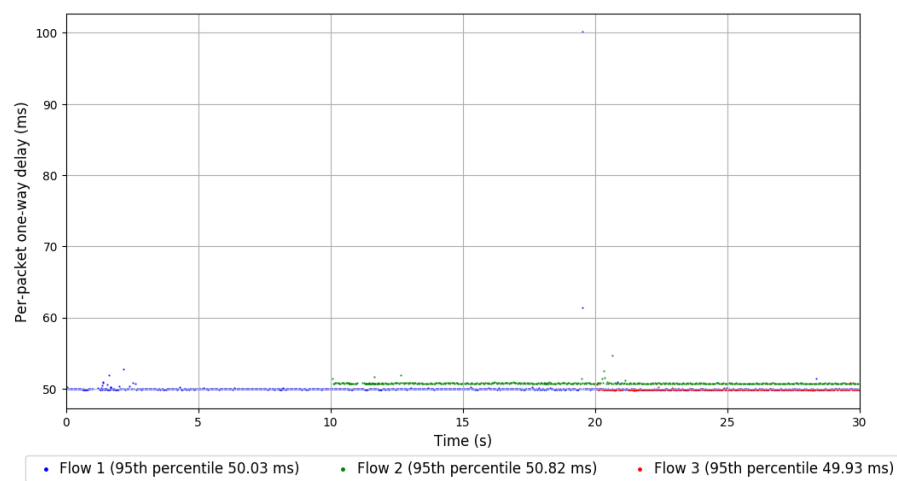
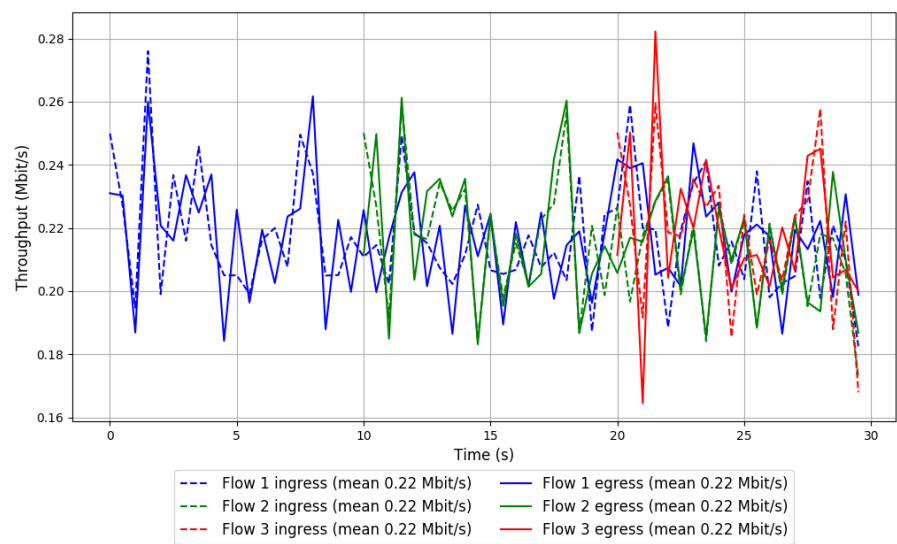


```
Run 9: Statistics of SReAM

Start at: 2017-10-12 14:06:55
End at: 2017-10-12 14:07:25

# Below is generated by plot.py at 2017-10-12 16:40:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 50.785 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.027 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.816 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 49.929 ms
Loss rate: 0.00%
```

Run 9: Report of SReAM — Data Link

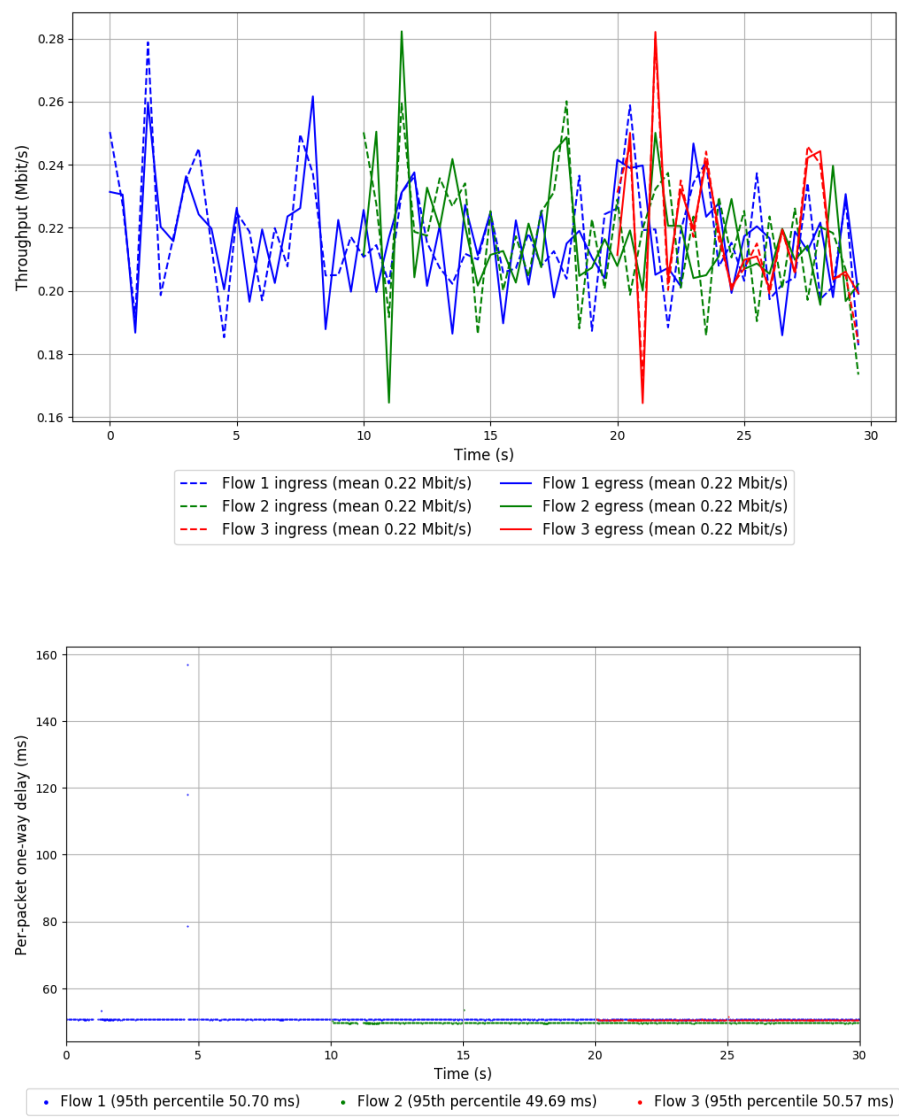


```
Run 10: Statistics of SReAM

Start at: 2017-10-12 14:19:40
End at: 2017-10-12 14:20:10

# Below is generated by plot.py at 2017-10-12 16:40:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 50.679 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.699 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 49.686 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.569 ms
Loss rate: 0.00%
```

Run 10: Report of SReAM — Data Link

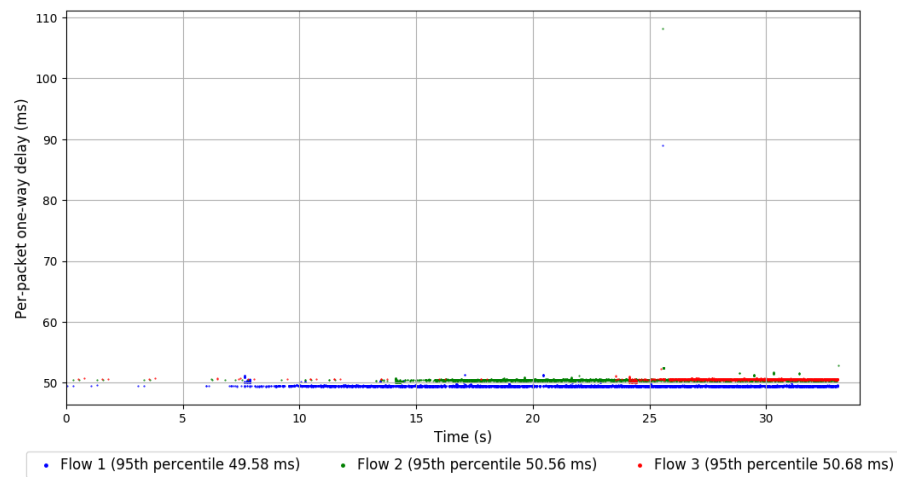
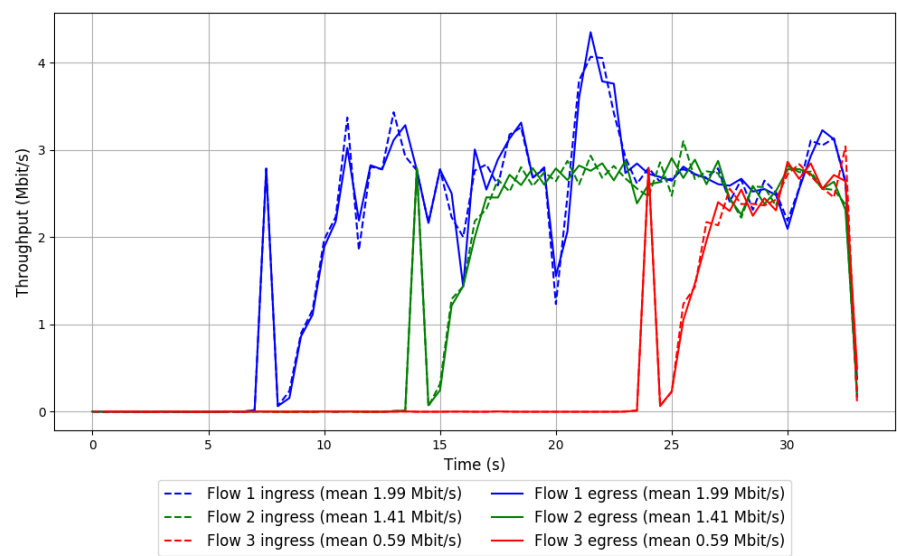


```
Run 1: Statistics of WebRTC media

Start at: 2017-10-12 12:29:24
End at: 2017-10-12 12:29:54

# Below is generated by plot.py at 2017-10-12 16:40:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.98 Mbit/s
95th percentile per-packet one-way delay: 50.622 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 1.99 Mbit/s
95th percentile per-packet one-way delay: 49.584 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 1.41 Mbit/s
95th percentile per-packet one-way delay: 50.560 ms
Loss rate: 0.16%
-- Flow 3:
Average throughput: 0.59 Mbit/s
95th percentile per-packet one-way delay: 50.679 ms
Loss rate: 0.00%
```


Run 1: Report of WebRTC media — Data Link

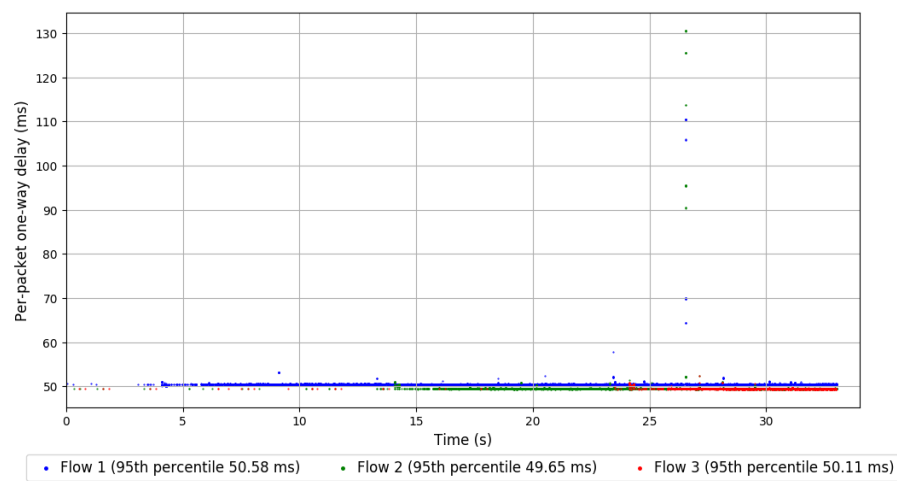
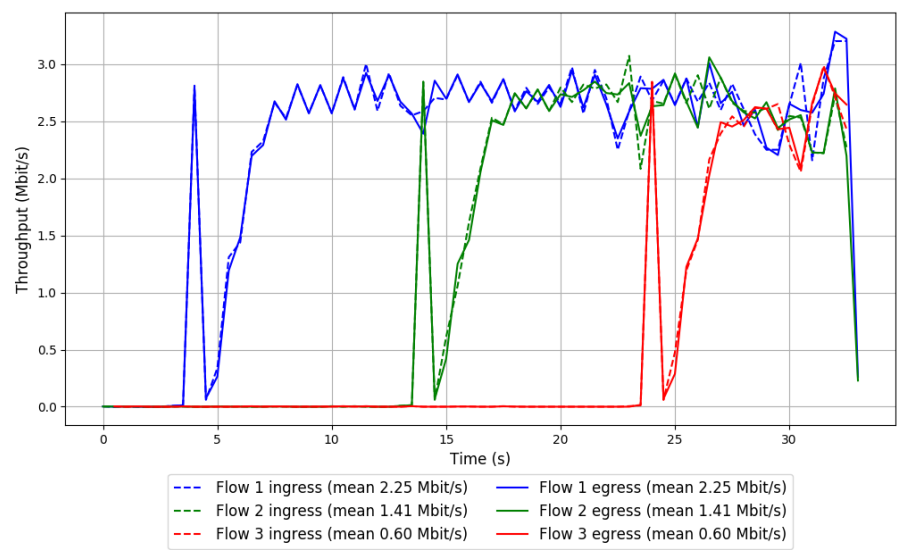


```
Run 2: Statistics of WebRTC media

Start at: 2017-10-12 12:41:52
End at: 2017-10-12 12:42:22

# Below is generated by plot.py at 2017-10-12 16:40:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.24 Mbit/s
95th percentile per-packet one-way delay: 50.560 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.25 Mbit/s
95th percentile per-packet one-way delay: 50.578 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.41 Mbit/s
95th percentile per-packet one-way delay: 49.650 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.60 Mbit/s
95th percentile per-packet one-way delay: 50.108 ms
Loss rate: 0.00%
```

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2017-10-12 12:54:20

End at: 2017-10-12 12:54:50

Below is generated by plot.py at 2017-10-12 16:40:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.24 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 50.702 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.42 Mbit/s

95th percentile per-packet one-way delay: 49.536 ms

Loss rate: 0.00%

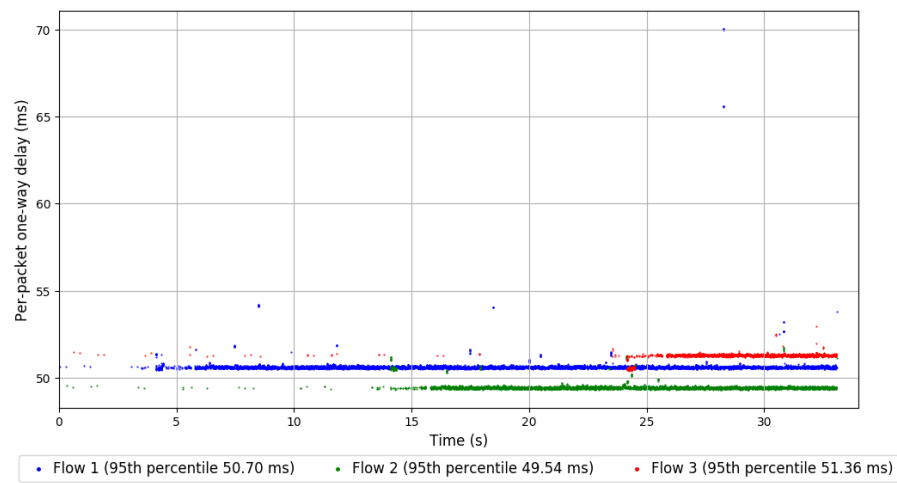
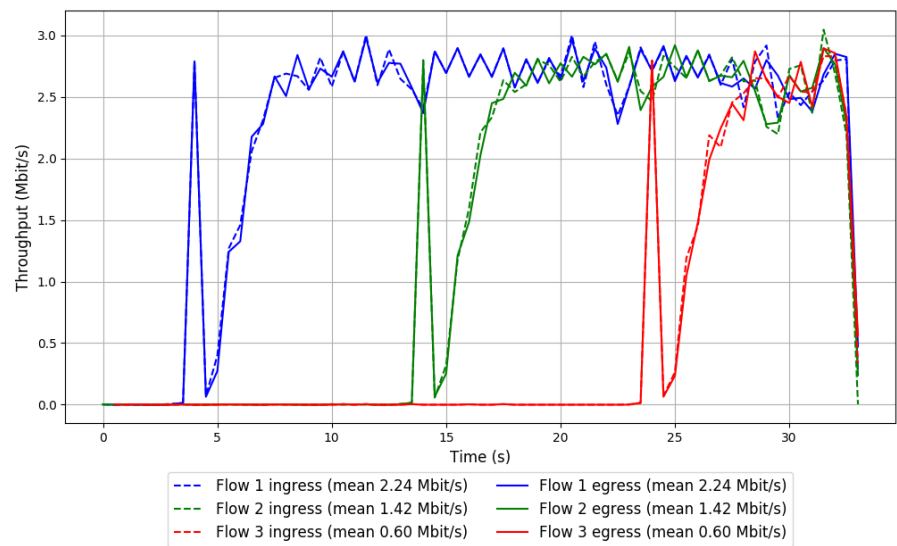
-- Flow 3:

Average throughput: 0.60 Mbit/s

95th percentile per-packet one-way delay: 51.364 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2017-10-12 13:06:49

End at: 2017-10-12 13:07:19

Below is generated by plot.py at 2017-10-12 16:40:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.24 Mbit/s

95th percentile per-packet one-way delay: 50.594 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 2.24 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.42 Mbit/s

95th percentile per-packet one-way delay: 50.612 ms

Loss rate: 0.02%

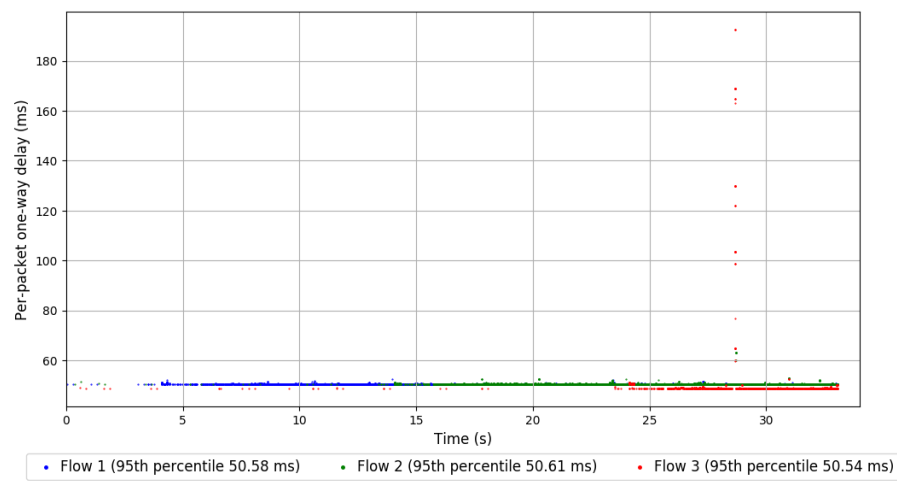
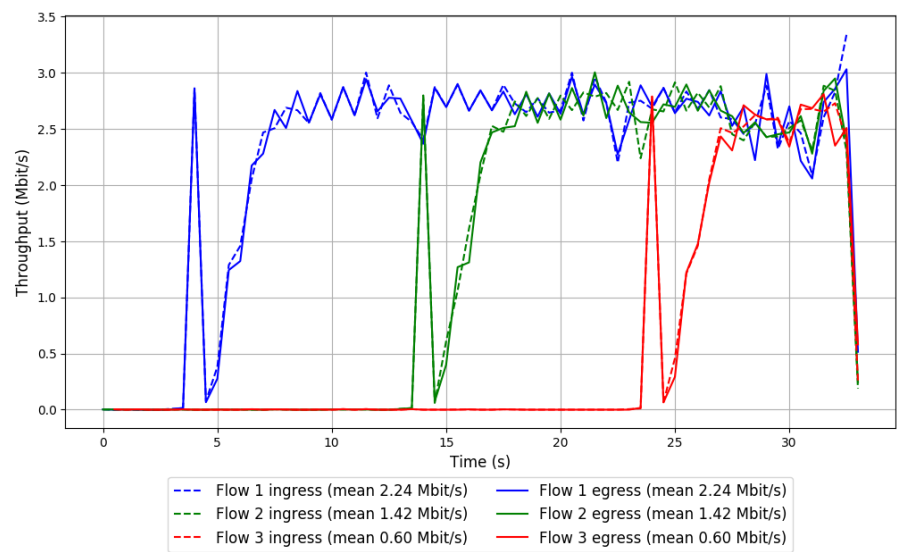
-- Flow 3:

Average throughput: 0.60 Mbit/s

95th percentile per-packet one-way delay: 50.540 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2017-10-12 13:19:15

End at: 2017-10-12 13:19:45

Below is generated by plot.py at 2017-10-12 16:40:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.48 Mbit/s

95th percentile per-packet one-way delay: 50.674 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.37 Mbit/s

95th percentile per-packet one-way delay: 50.314 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.49 Mbit/s

95th percentile per-packet one-way delay: 50.718 ms

Loss rate: 0.00%

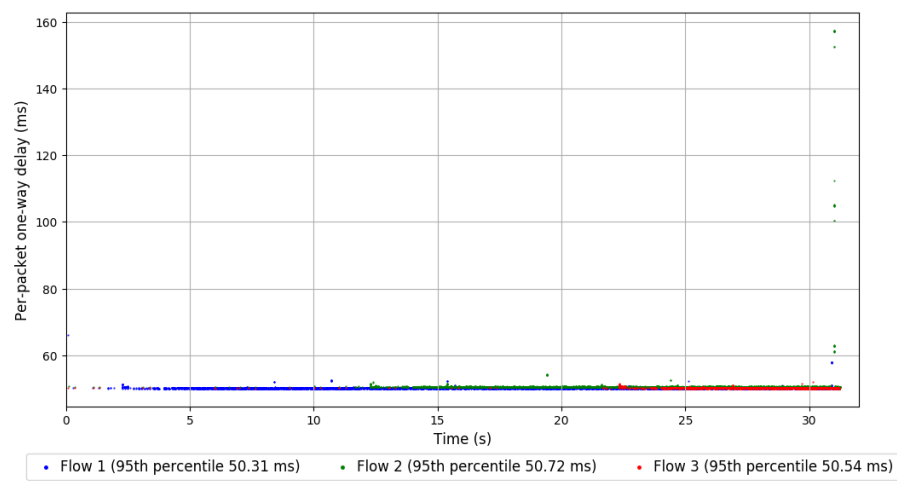
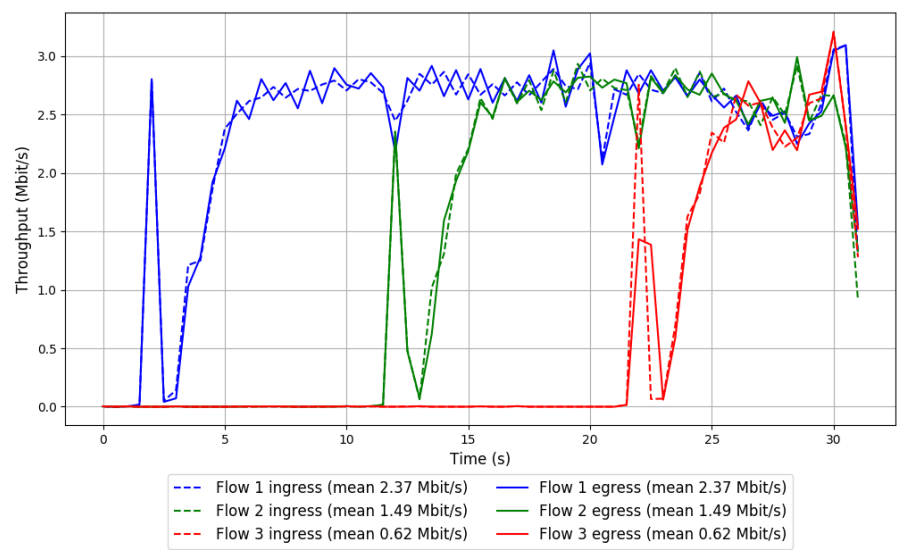
-- Flow 3:

Average throughput: 0.62 Mbit/s

95th percentile per-packet one-way delay: 50.536 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2017-10-12 13:31:45

End at: 2017-10-12 13:32:15

Below is generated by plot.py at 2017-10-12 16:40:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.87 Mbit/s

95th percentile per-packet one-way delay: 51.010 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.86 Mbit/s

95th percentile per-packet one-way delay: 50.593 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.43 Mbit/s

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

Loss rate: 0.00%

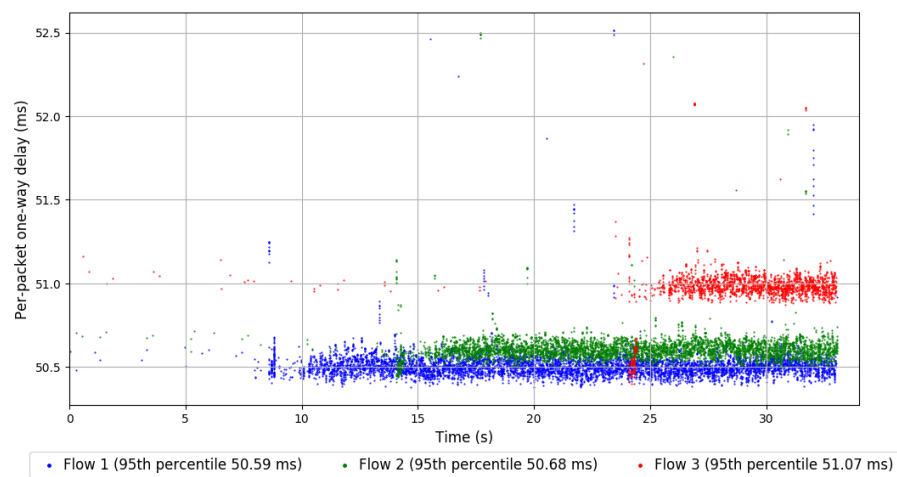
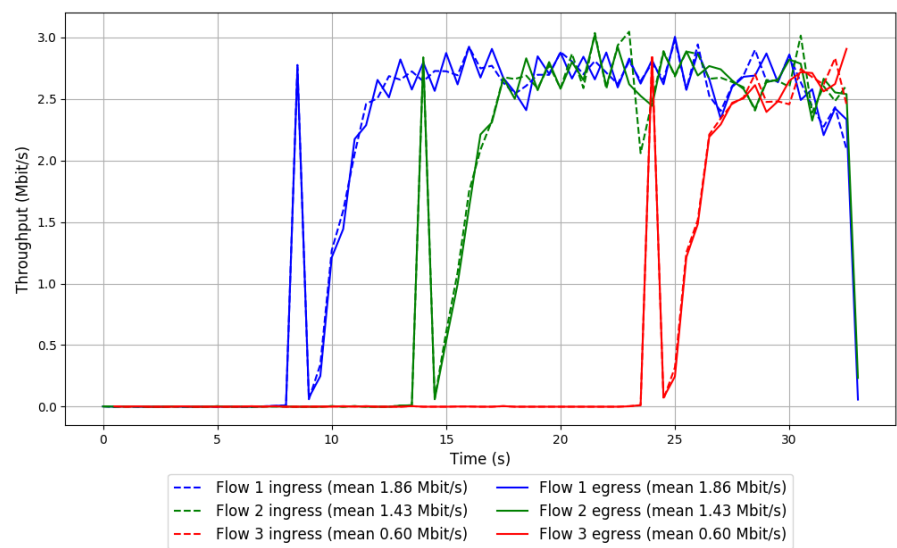
-- Flow 3:

Average throughput: 0.60 Mbit/s

95th percentile per-packet one-way delay: 51.072 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2017-10-12 13:44:14

End at: 2017-10-12 13:44:44

Below is generated by plot.py at 2017-10-12 16:40:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.25 Mbit/s

95th percentile per-packet one-way delay: 51.042 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 51.064 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 1.43 Mbit/s

95th percentile per-packet one-way delay: 50.698 ms

Loss rate: 0.00%

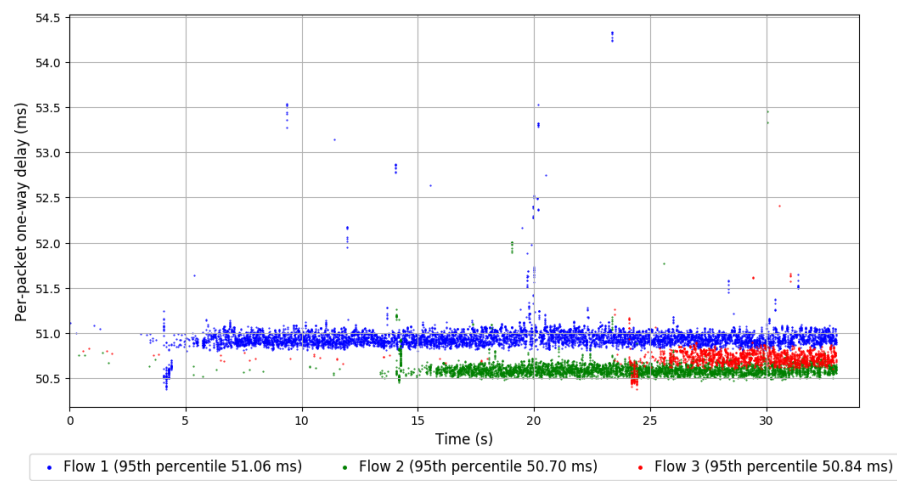
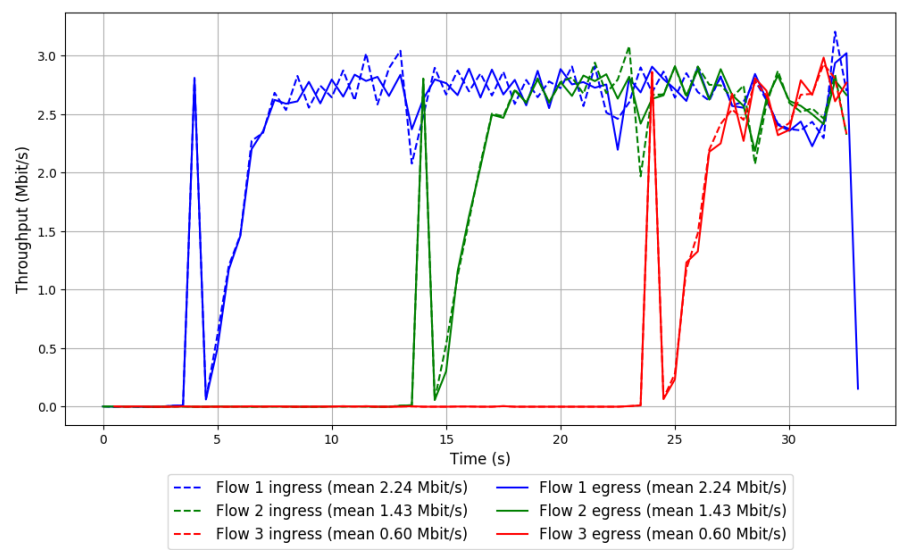
-- Flow 3:

Average throughput: 0.60 Mbit/s

95th percentile per-packet one-way delay: 50.835 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2017-10-12 13:56:52

End at: 2017-10-12 13:57:22

Below is generated by plot.py at 2017-10-12 16:40:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.10 Mbit/s

95th percentile per-packet one-way delay: 50.714 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.11 Mbit/s

95th percentile per-packet one-way delay: 50.604 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.42 Mbit/s

95th percentile per-packet one-way delay: 50.741 ms

Loss rate: 0.00%

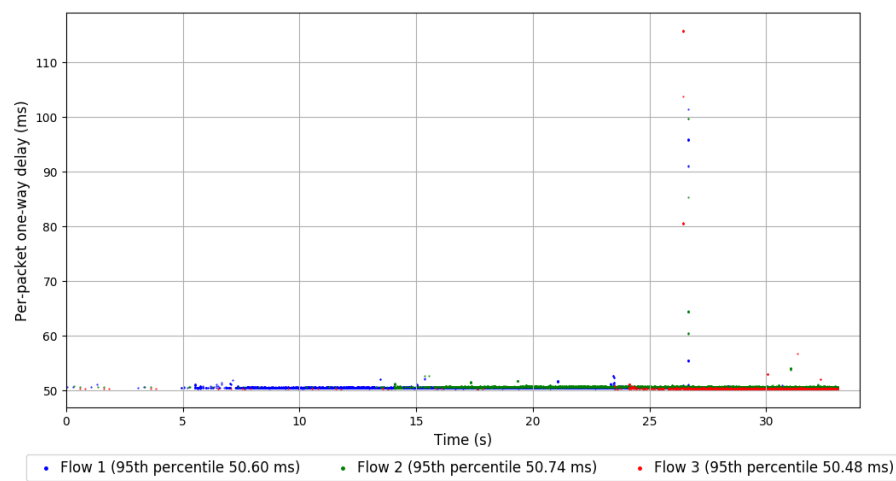
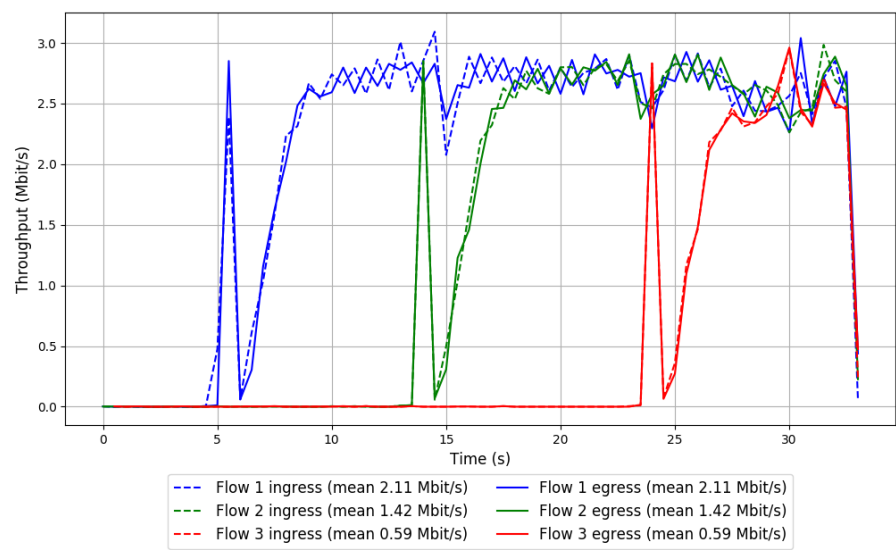
-- Flow 3:

Average throughput: 0.59 Mbit/s

95th percentile per-packet one-way delay: 50.485 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2017-10-12 14:09:29

End at: 2017-10-12 14:09:59

Below is generated by plot.py at 2017-10-12 16:40:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.67 Mbit/s

95th percentile per-packet one-way delay: 51.343 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.47 Mbit/s

95th percentile per-packet one-way delay: 51.363 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.55 Mbit/s

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

Loss rate: 0.00%

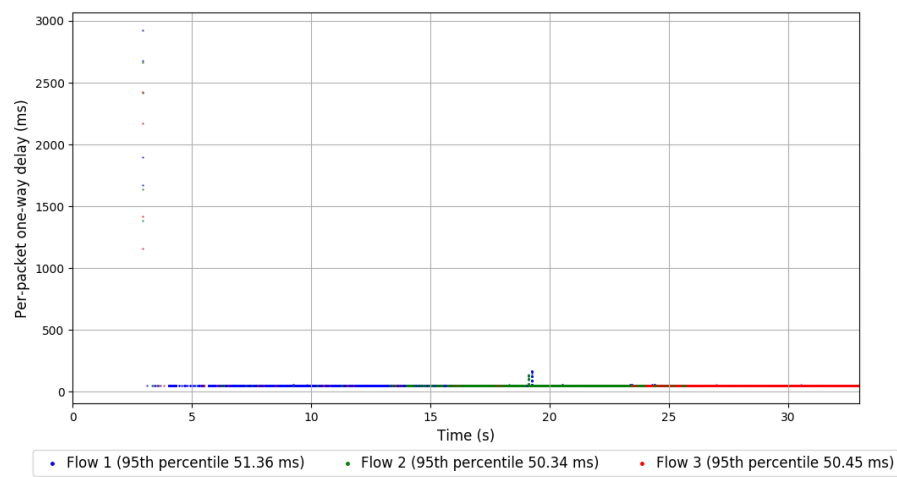
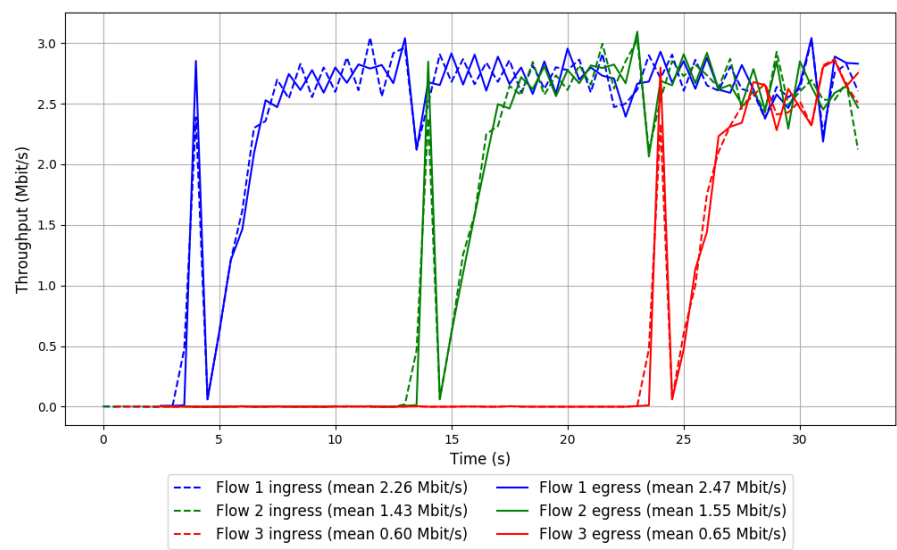
-- Flow 3:

Average throughput: 0.65 Mbit/s

95th percentile per-packet one-way delay: 50.450 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2017-10-12 14:22:08

End at: 2017-10-12 14:22:38

Below is generated by plot.py at 2017-10-12 16:40:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.29 Mbit/s

95th percentile per-packet one-way delay: 51.009 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.26 Mbit/s

95th percentile per-packet one-way delay: 50.734 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.43 Mbit/s

95th percentile per-packet one-way delay: 51.031 ms

Loss rate: 0.00%

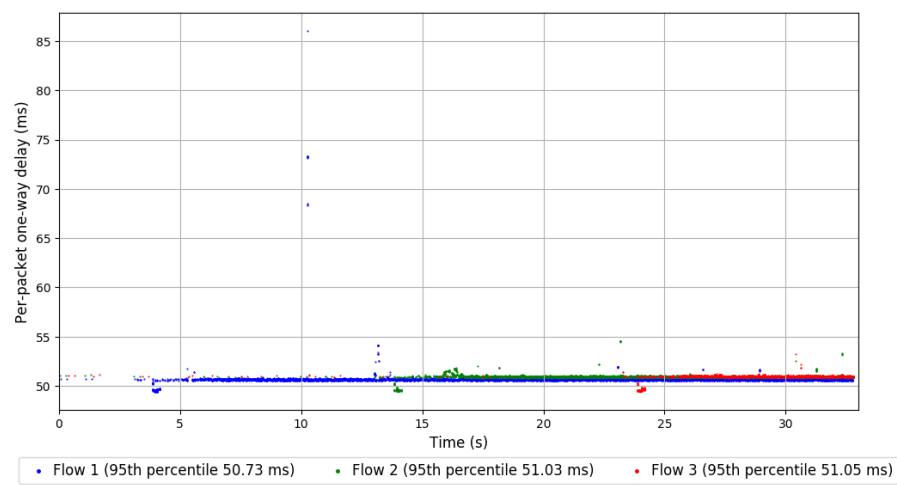
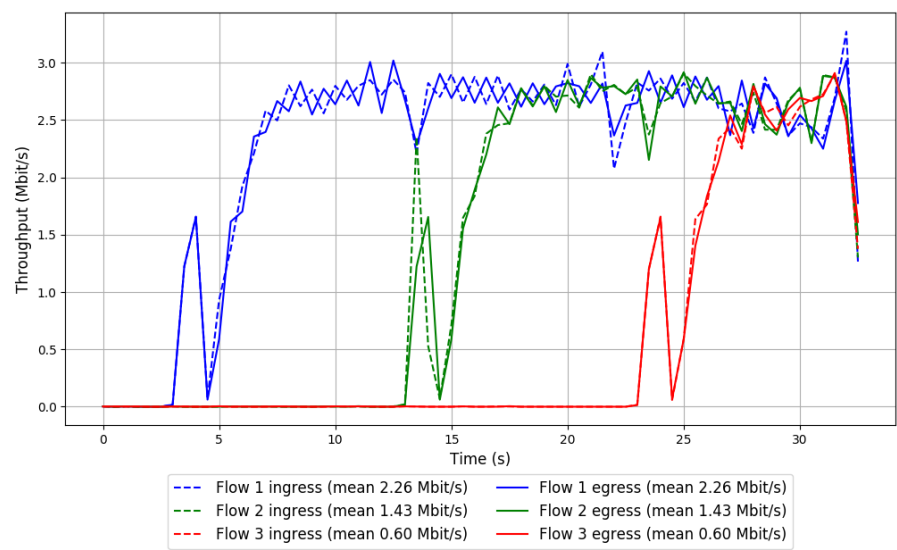
-- Flow 3:

Average throughput: 0.60 Mbit/s

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

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

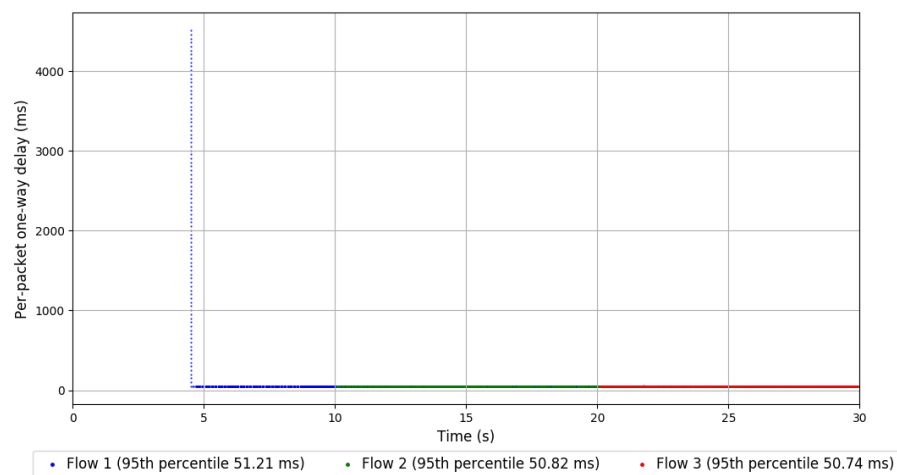
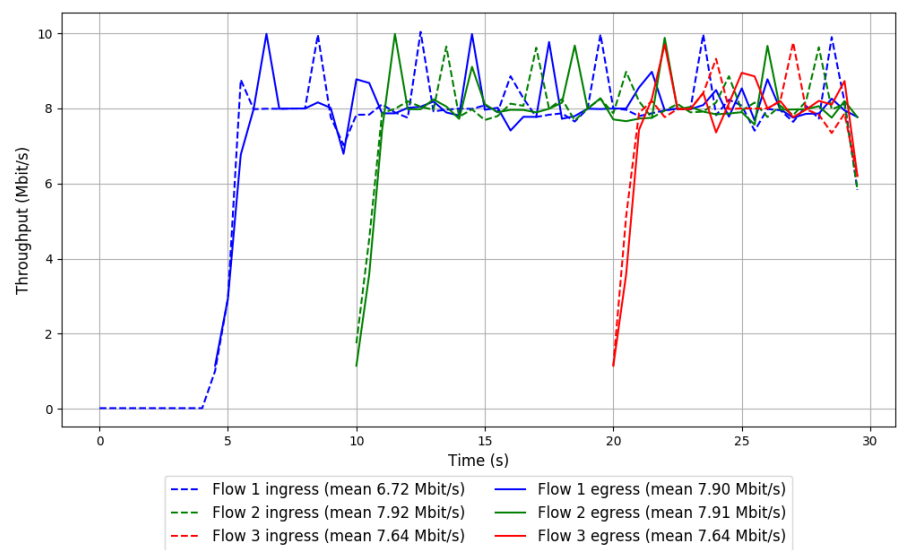


```
Run 1: Statistics of Sprout

Start at: 2017-10-12 12:33:13
End at: 2017-10-12 12:33:43

# Below is generated by plot.py at 2017-10-12 16:40:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 17.03 Mbit/s
95th percentile per-packet one-way delay: 50.909 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 7.90 Mbit/s
95th percentile per-packet one-way delay: 51.213 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 7.91 Mbit/s
95th percentile per-packet one-way delay: 50.820 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 7.64 Mbit/s
95th percentile per-packet one-way delay: 50.744 ms
Loss rate: 0.00%
```

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2017-10-12 12:45:40

End at: 2017-10-12 12:46:10

Below is generated by plot.py at 2017-10-12 16:40:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.81 Mbit/s

95th percentile per-packet one-way delay: 50.880 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 8.02 Mbit/s

95th percentile per-packet one-way delay: 50.842 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 7.93 Mbit/s

95th percentile per-packet one-way delay: 50.924 ms

Loss rate: 0.00%

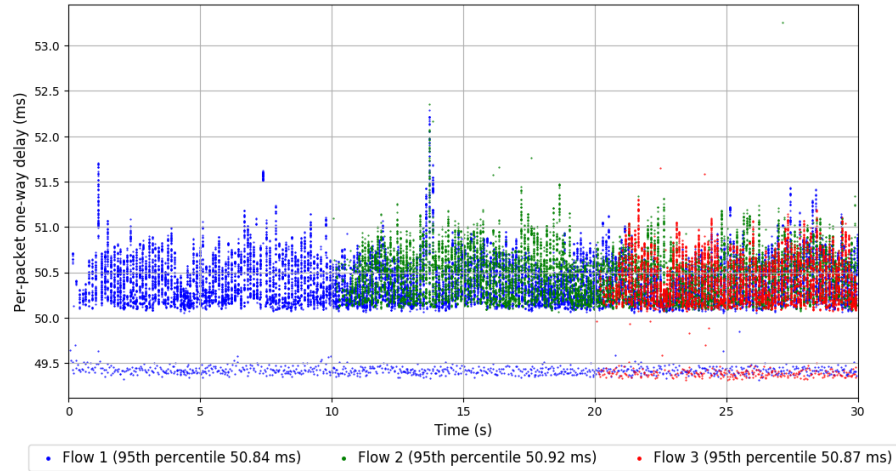
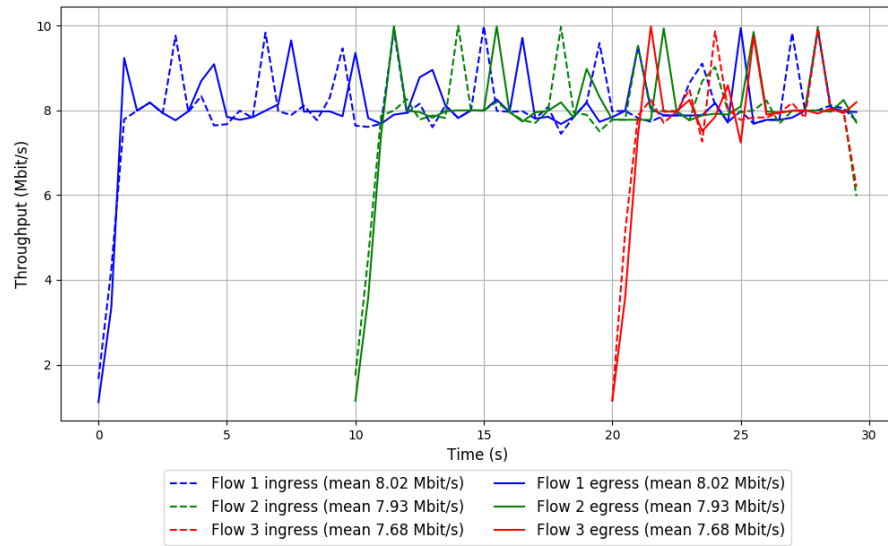
-- Flow 3:

Average throughput: 7.68 Mbit/s

95th percentile per-packet one-way delay: 50.866 ms

Loss rate: 0.00%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2017-10-12 12:58:09

End at: 2017-10-12 12:58:39

Below is generated by plot.py at 2017-10-12 16:40:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.61 Mbit/s

95th percentile per-packet one-way delay: 51.266 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 7.96 Mbit/s

95th percentile per-packet one-way delay: 51.301 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 7.86 Mbit/s

95th percentile per-packet one-way delay: 51.207 ms

Loss rate: 0.03%

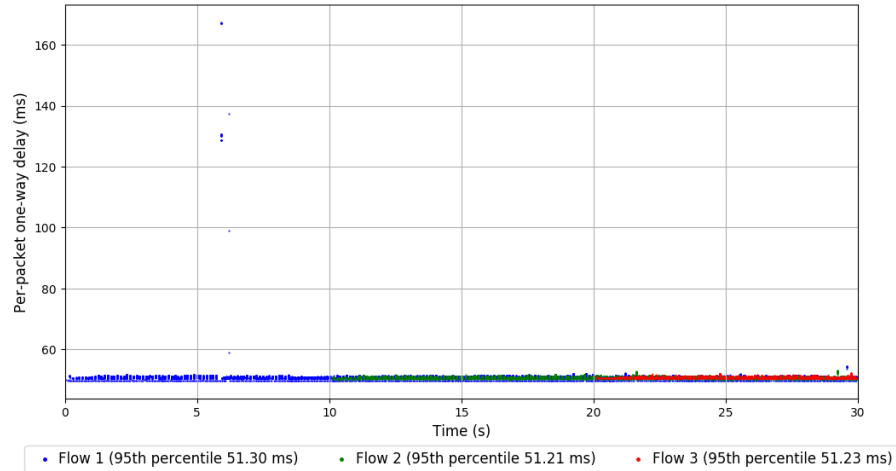
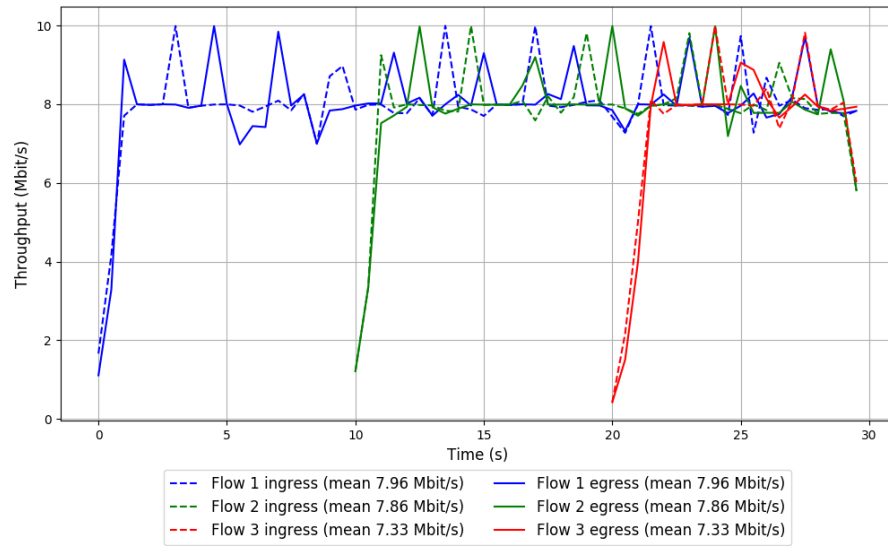
-- Flow 3:

Average throughput: 7.33 Mbit/s

95th percentile per-packet one-way delay: 51.227 ms

Loss rate: 0.00%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2017-10-12 13:10:35

End at: 2017-10-12 13:11:05

Below is generated by plot.py at 2017-10-12 16:40:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.66 Mbit/s

95th percentile per-packet one-way delay: 51.487 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 8.02 Mbit/s

95th percentile per-packet one-way delay: 51.449 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 7.75 Mbit/s

95th percentile per-packet one-way delay: 51.535 ms

Loss rate: 0.05%

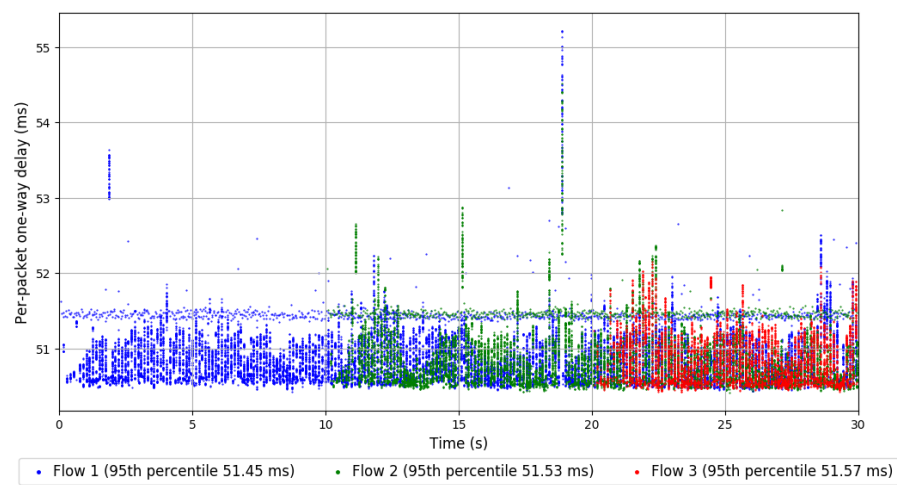
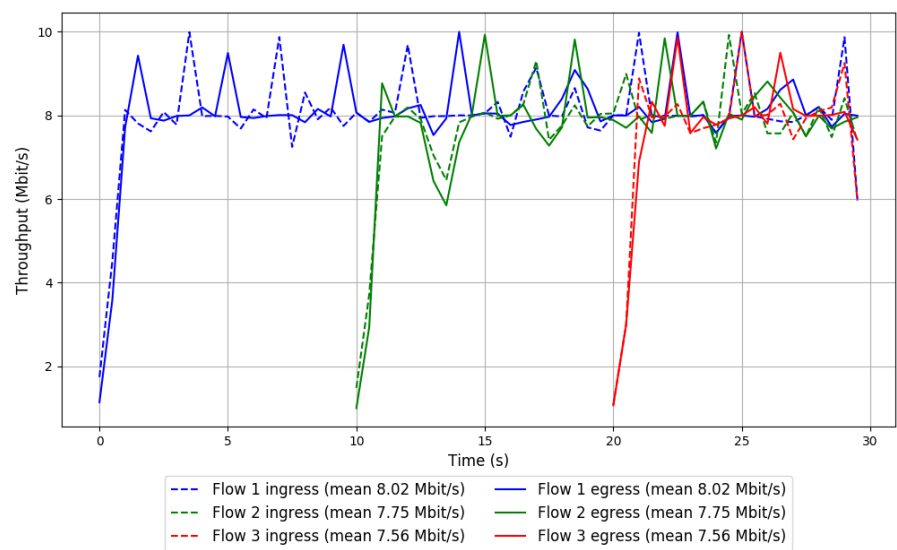
-- Flow 3:

Average throughput: 7.56 Mbit/s

95th percentile per-packet one-way delay: 51.570 ms

Loss rate: 0.00%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2017-10-12 13:23:05

End at: 2017-10-12 13:23:35

Below is generated by plot.py at 2017-10-12 16:40:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.56 Mbit/s

95th percentile per-packet one-way delay: 51.394 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 7.87 Mbit/s

95th percentile per-packet one-way delay: 51.373 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 7.76 Mbit/s

95th percentile per-packet one-way delay: 51.443 ms

Loss rate: 0.02%

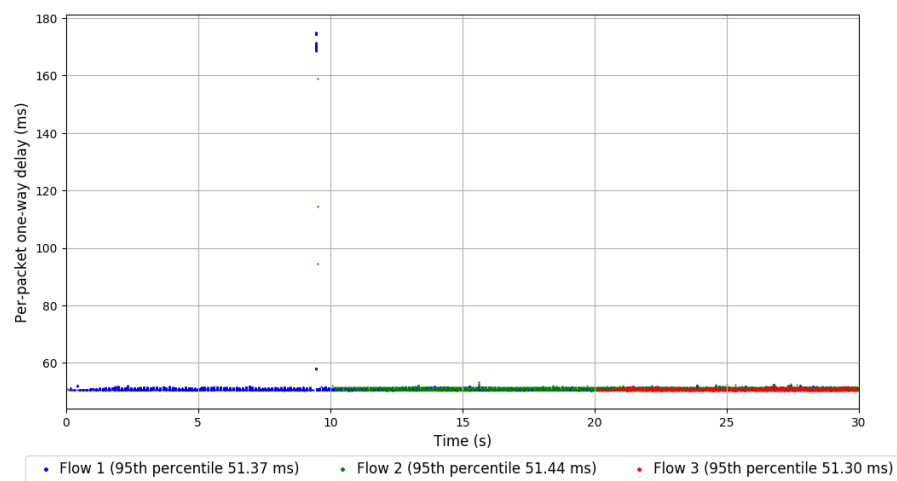
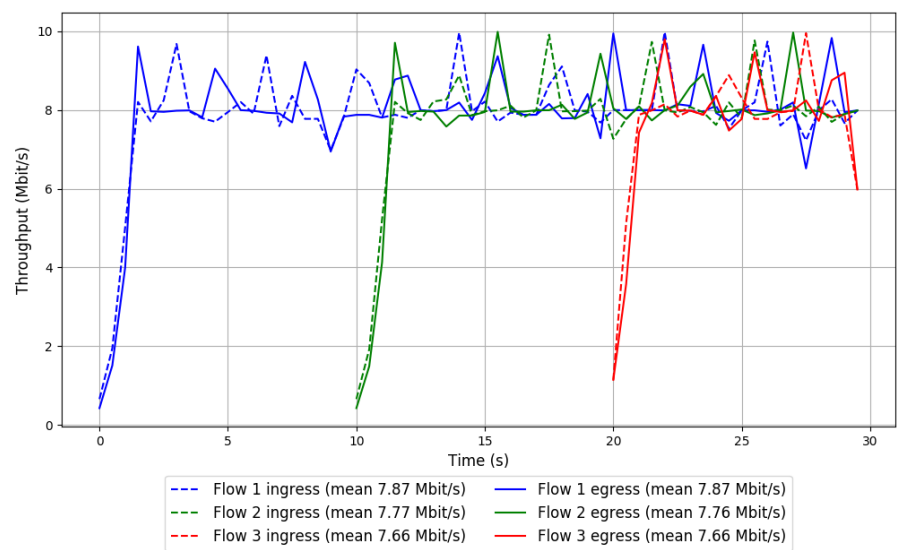
-- Flow 3:

Average throughput: 7.66 Mbit/s

95th percentile per-packet one-way delay: 51.295 ms

Loss rate: 0.00%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2017-10-12 13:35:35

End at: 2017-10-12 13:36:05

Below is generated by plot.py at 2017-10-12 16:40:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.87 Mbit/s

95th percentile per-packet one-way delay: 51.415 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 7.99 Mbit/s

95th percentile per-packet one-way delay: 51.368 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 7.97 Mbit/s

95th percentile per-packet one-way delay: 51.456 ms

Loss rate: 0.00%

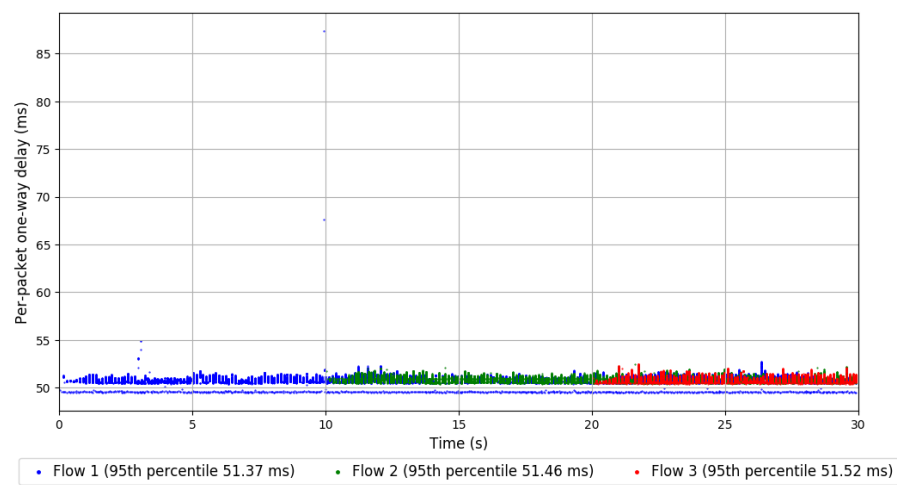
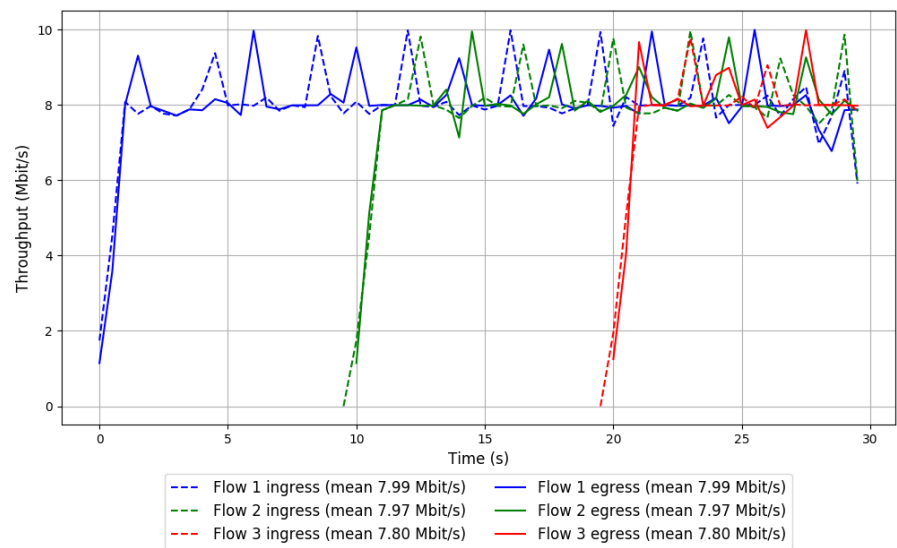
-- Flow 3:

Average throughput: 7.80 Mbit/s

95th percentile per-packet one-way delay: 51.518 ms

Loss rate: 0.00%

Run 6: Report of Sprout — Data Link

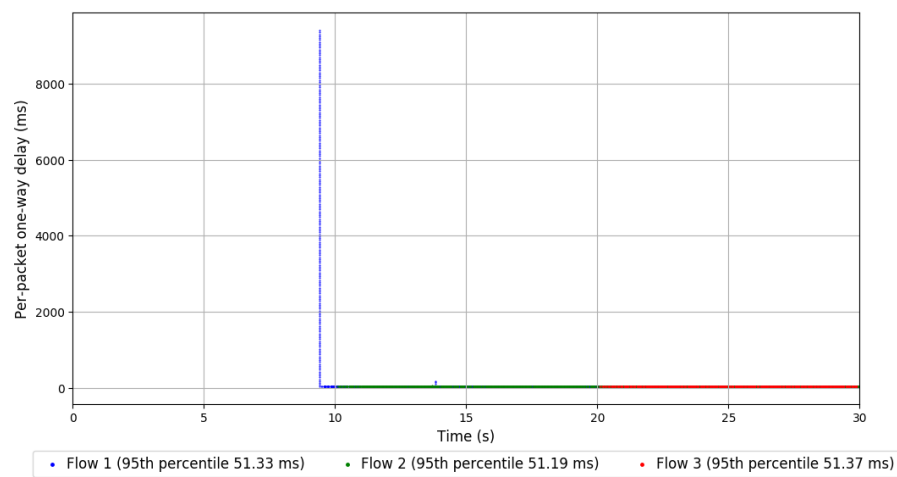
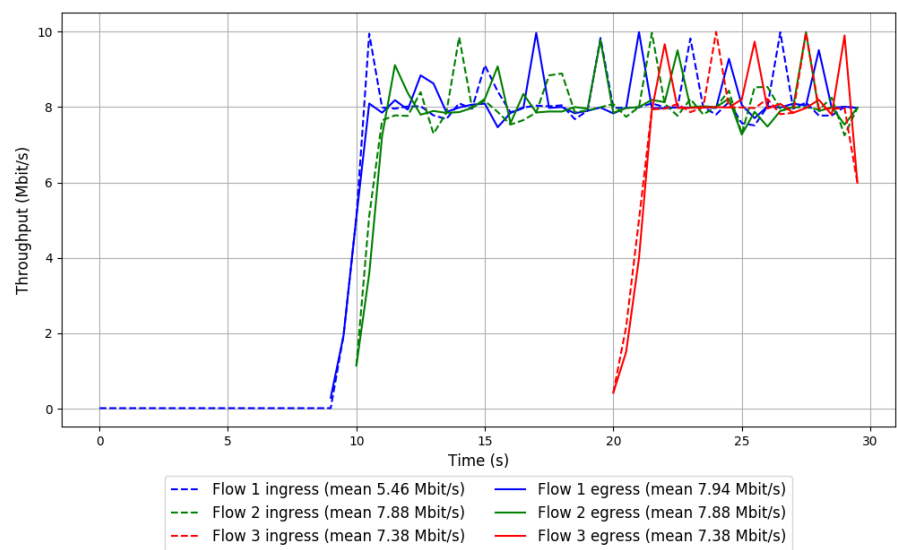


Run 7: Statistics of Sprout

Start at: 2017-10-12 13:48:01

End at: 2017-10-12 13:48:31

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2017-10-12 14:00:39

End at: 2017-10-12 14:01:09

Below is generated by plot.py at 2017-10-12 16:40:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 16.75 Mbit/s

95th percentile per-packet one-way delay: 51.296 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 7.91 Mbit/s

95th percentile per-packet one-way delay: 51.259 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 7.96 Mbit/s

95th percentile per-packet one-way delay: 51.297 ms

Loss rate: 0.00%

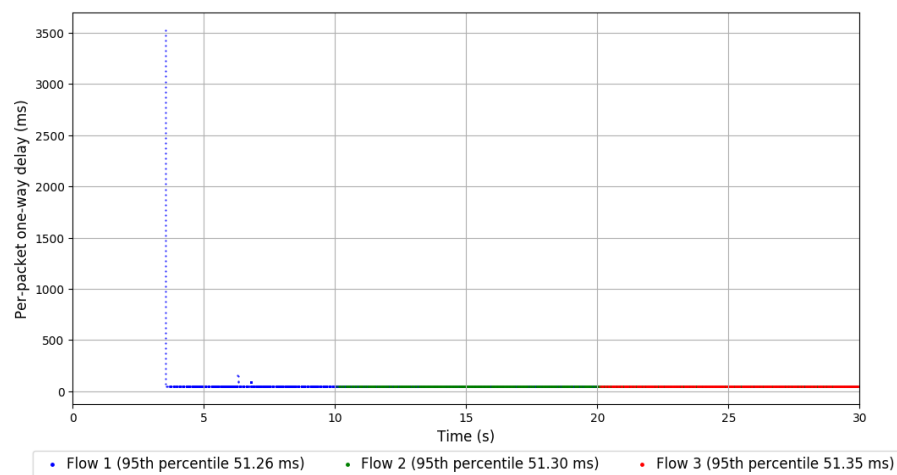
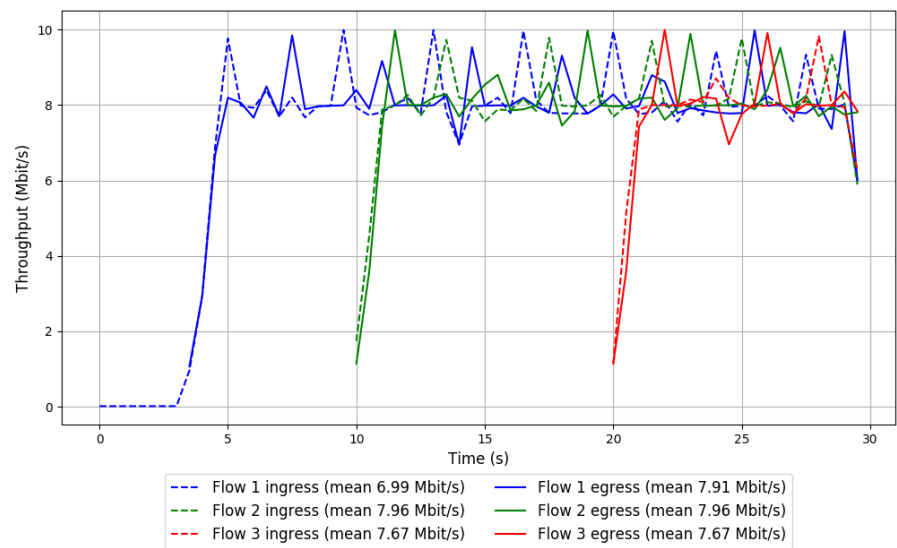
-- Flow 3:

Average throughput: 7.67 Mbit/s

95th percentile per-packet one-way delay: 51.355 ms

Loss rate: 0.00%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2017-10-12 14:13:22

End at: 2017-10-12 14:13:52

Below is generated by plot.py at 2017-10-12 16:40:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.79 Mbit/s

95th percentile per-packet one-way delay: 51.506 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 8.00 Mbit/s

95th percentile per-packet one-way delay: 51.527 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 7.98 Mbit/s

95th percentile per-packet one-way delay: 51.467 ms

Loss rate: 0.00%

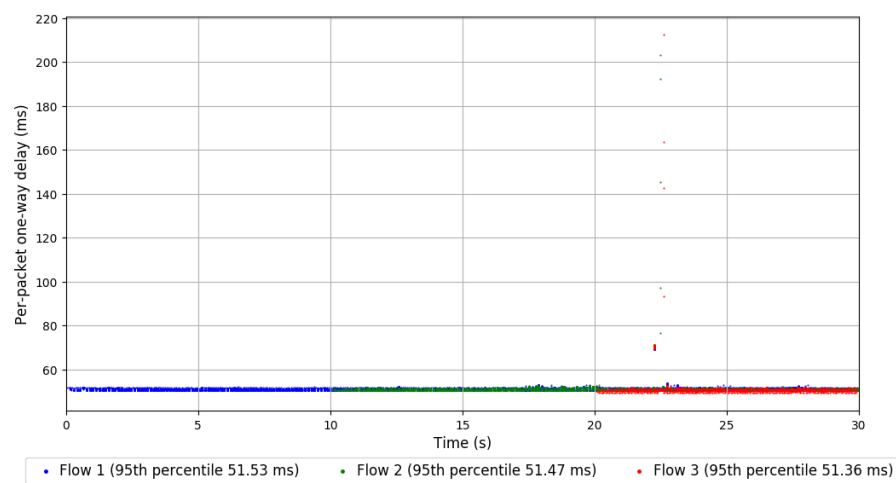
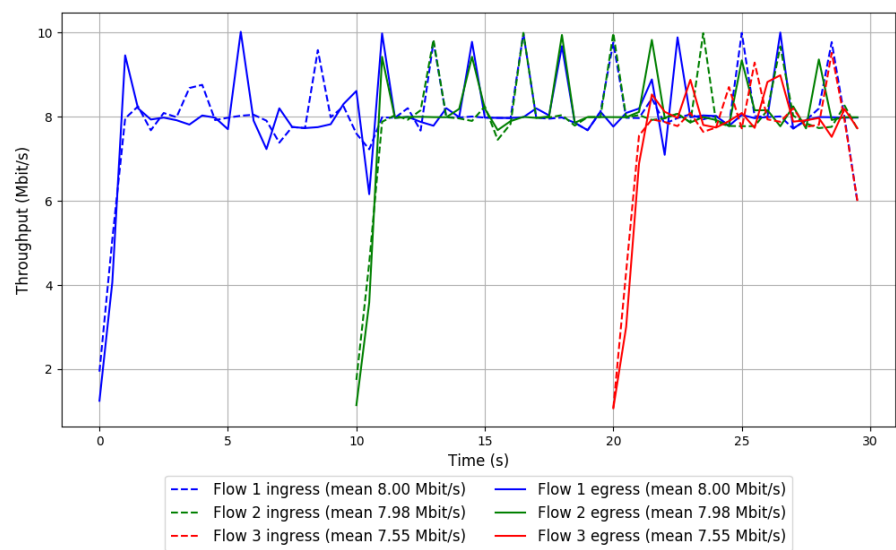
-- Flow 3:

Average throughput: 7.55 Mbit/s

95th percentile per-packet one-way delay: 51.357 ms

Loss rate: 0.00%

Run 9: Report of Sprout — Data Link

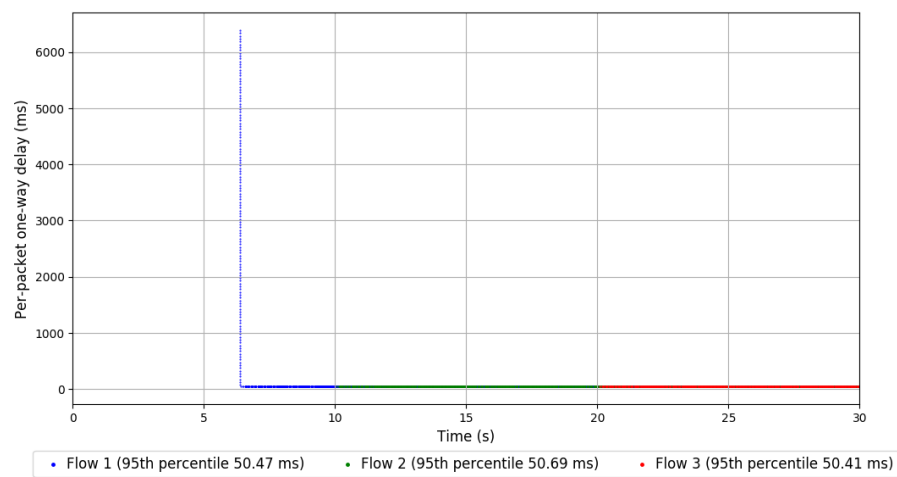
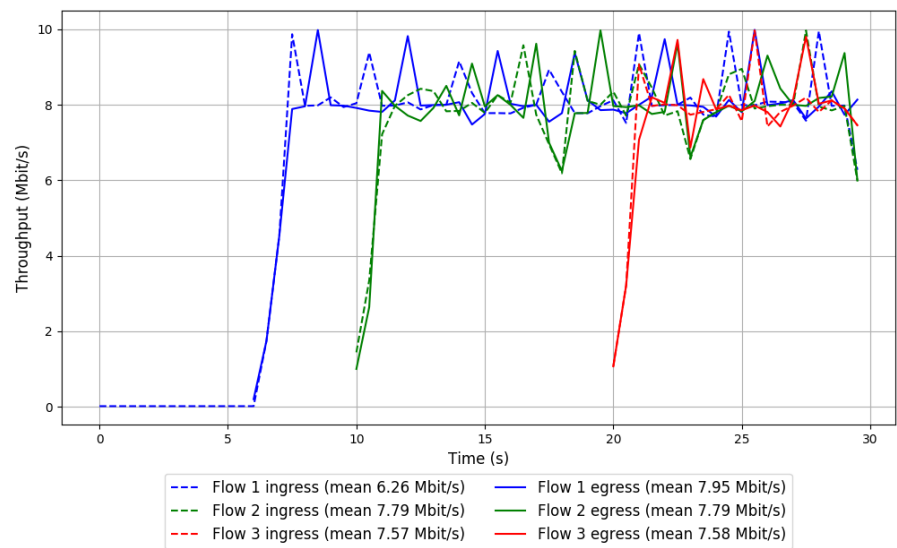


Run 10: Statistics of Sprout

Start at: 2017-10-12 14:25:57

End at: 2017-10-12 14:26:28

Run 10: Report of Sprout — Data Link

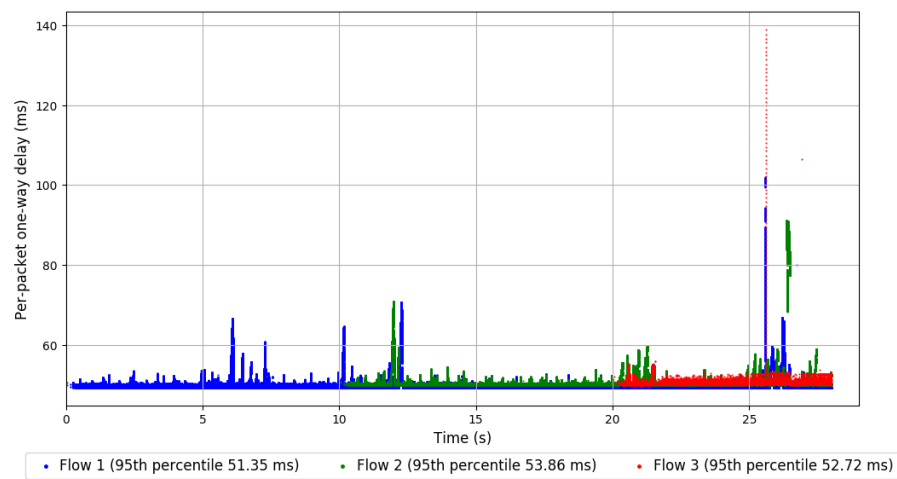
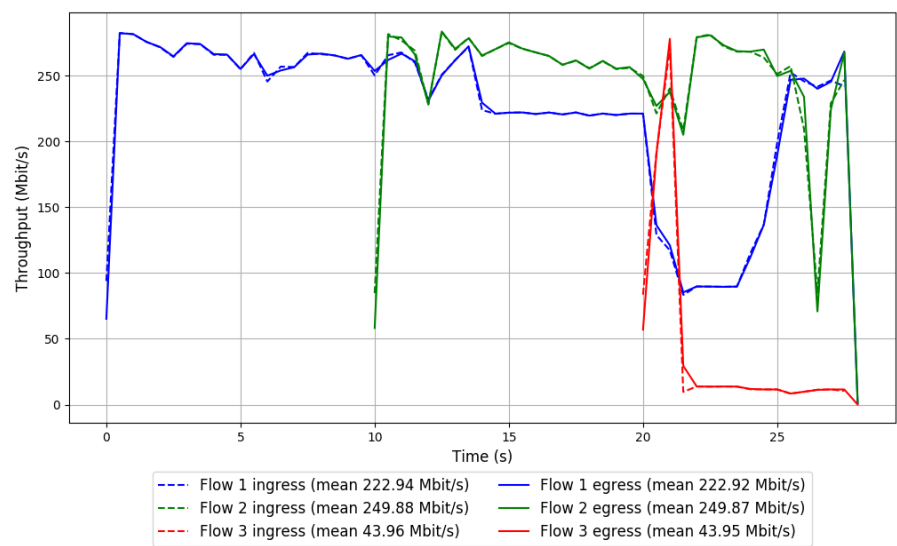


```
Run 1: Statistics of TaoVA-100x

Start at: 2017-10-12 12:31:17
End at: 2017-10-12 12:31:47

# Below is generated by plot.py at 2017-10-12 16:49:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 395.76 Mbit/s
95th percentile per-packet one-way delay: 52.712 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 222.92 Mbit/s
95th percentile per-packet one-way delay: 51.348 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 249.87 Mbit/s
95th percentile per-packet one-way delay: 53.863 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 43.95 Mbit/s
95th percentile per-packet one-way delay: 52.719 ms
Loss rate: 0.00%
```


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

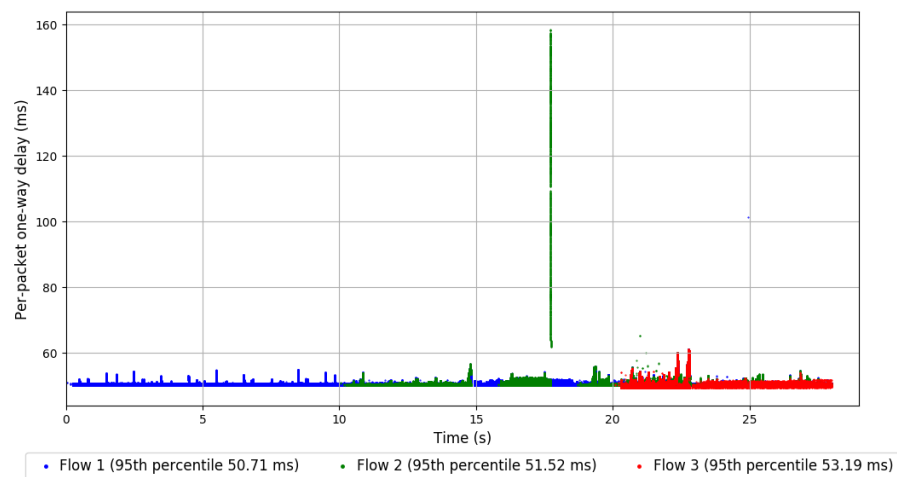
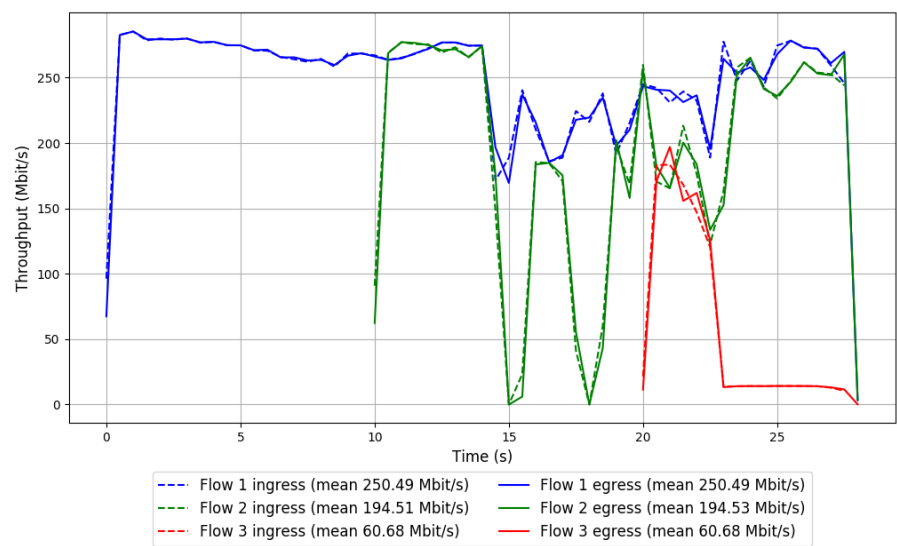


```
Run 2: Statistics of TaoVA-100x

Start at: 2017-10-12 12:43:44
End at: 2017-10-12 12:44:14

# Below is generated by plot.py at 2017-10-12 16:49:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 392.53 Mbit/s
95th percentile per-packet one-way delay: 51.115 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 250.49 Mbit/s
95th percentile per-packet one-way delay: 50.709 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 194.53 Mbit/s
95th percentile per-packet one-way delay: 51.524 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 60.68 Mbit/s
95th percentile per-packet one-way delay: 53.194 ms
Loss rate: 0.00%
```

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

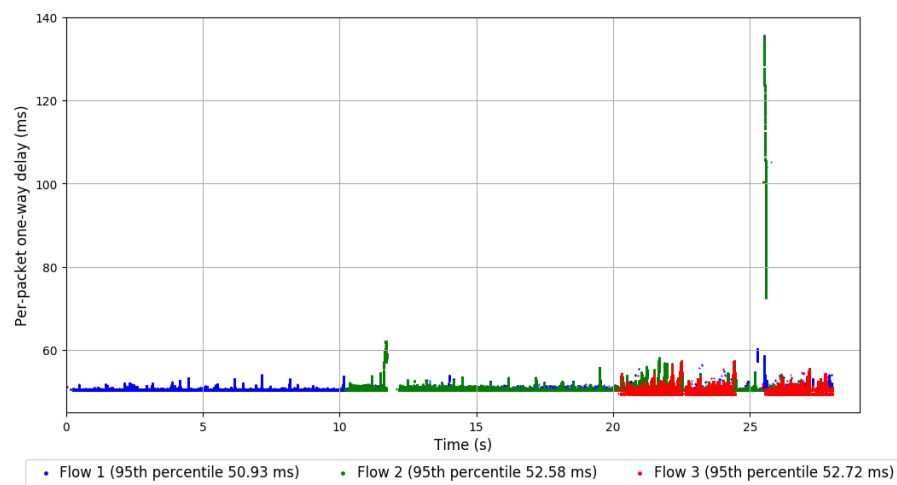
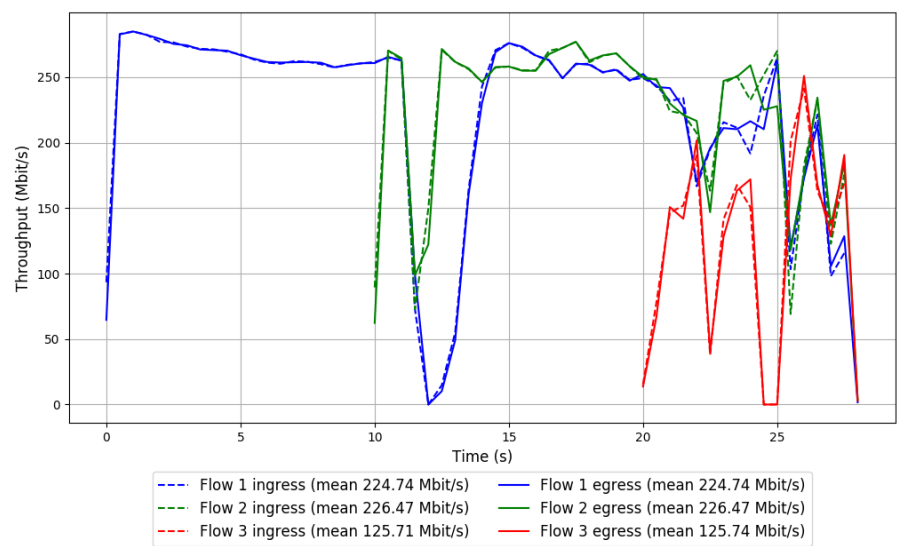


```
Run 3: Statistics of TaoVA-100x

Start at: 2017-10-12 12:56:13
End at: 2017-10-12 12:56:43

# Below is generated by plot.py at 2017-10-12 16:50:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 405.76 Mbit/s
95th percentile per-packet one-way delay: 51.617 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 224.74 Mbit/s
95th percentile per-packet one-way delay: 50.927 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 226.47 Mbit/s
95th percentile per-packet one-way delay: 52.582 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 125.74 Mbit/s
95th percentile per-packet one-way delay: 52.724 ms
Loss rate: 0.00%
```

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



Run 4: Statistics of TaoVA-100x

Start at: 2017-10-12 13:08:42

End at: 2017-10-12 13:09:12

Below is generated by plot.py at 2017-10-12 16:50:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 379.89 Mbit/s

95th percentile per-packet one-way delay: 51.999 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 221.97 Mbit/s

95th percentile per-packet one-way delay: 51.758 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 183.86 Mbit/s

95th percentile per-packet one-way delay: 51.946 ms

Loss rate: 0.00%

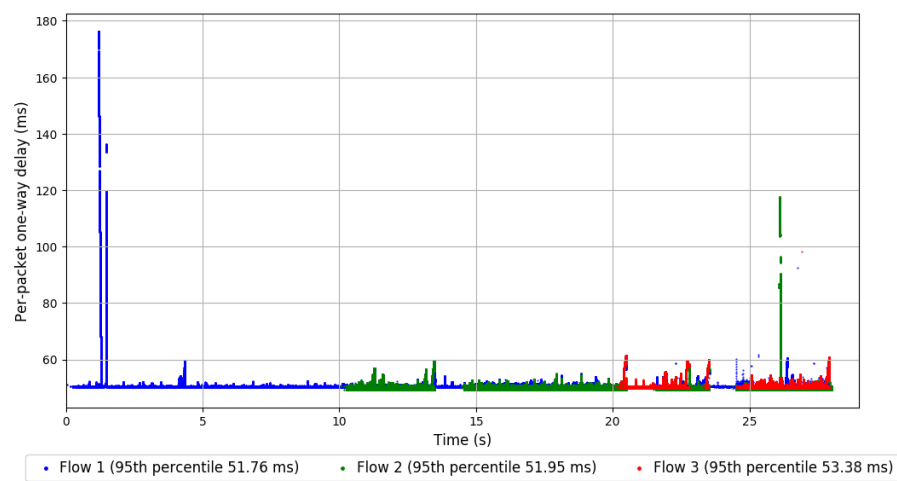
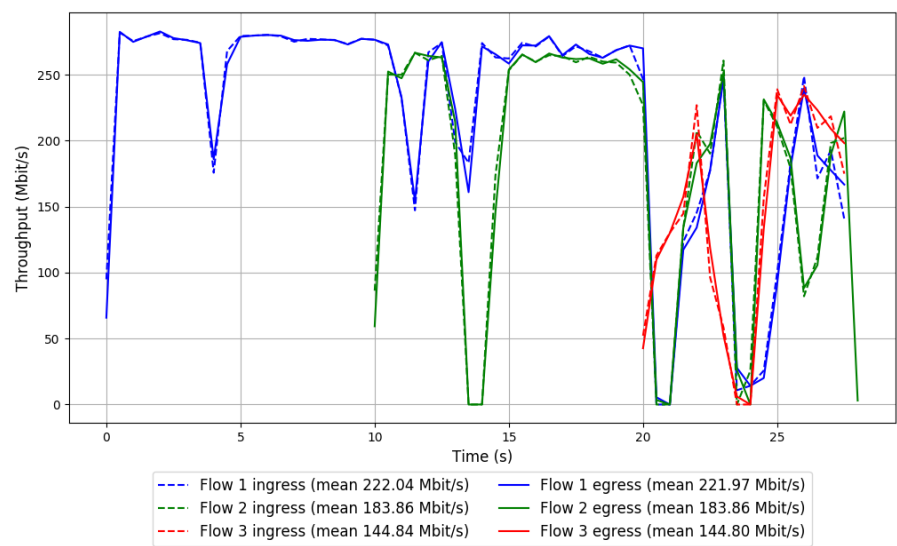
-- Flow 3:

Average throughput: 144.80 Mbit/s

95th percentile per-packet one-way delay: 53.379 ms

Loss rate: 0.00%

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



Run 5: Statistics of TaoVA-100x

Start at: 2017-10-12 13:21:08

End at: 2017-10-12 13:21:38

Below is generated by plot.py at 2017-10-12 16:50:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 415.39 Mbit/s

95th percentile per-packet one-way delay: 52.590 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 193.48 Mbit/s

95th percentile per-packet one-way delay: 50.621 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 254.91 Mbit/s

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

Loss rate: 0.00%

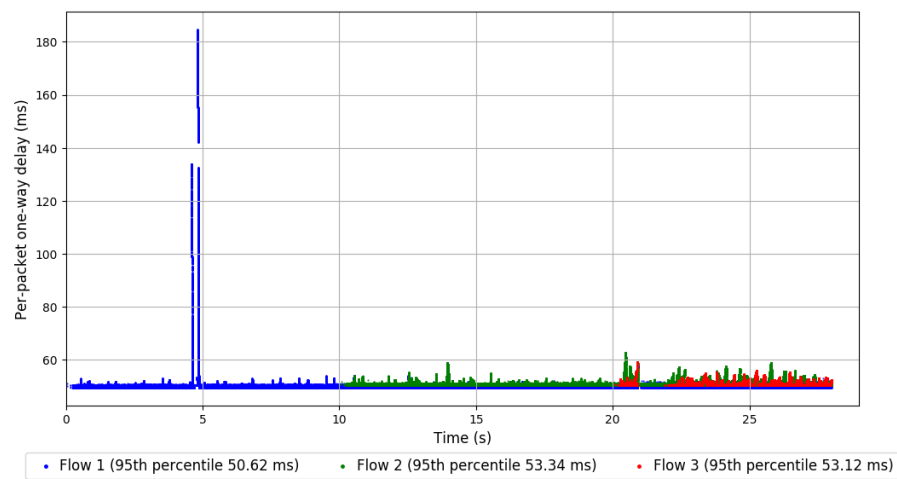
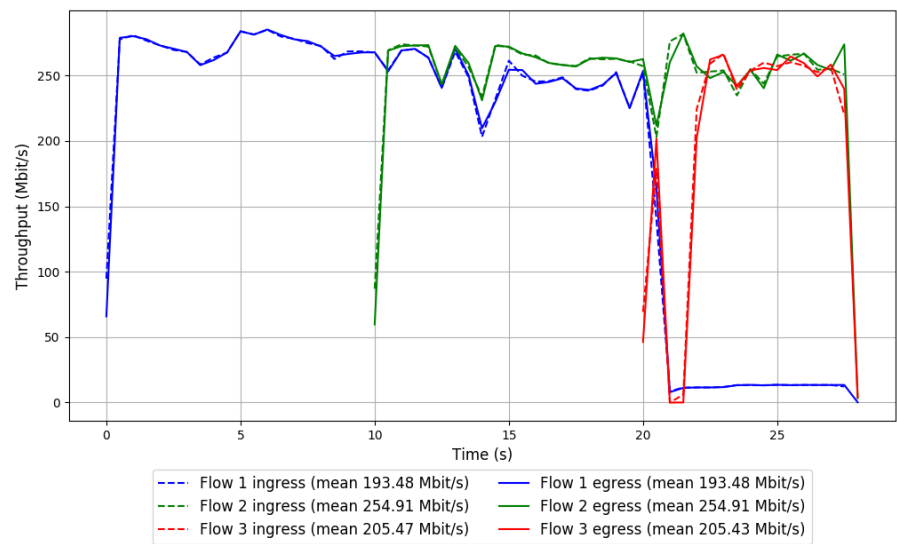
-- Flow 3:

Average throughput: 205.43 Mbit/s

95th percentile per-packet one-way delay: 53.125 ms

Loss rate: 0.02%

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



Run 6: Statistics of TaoVA-100x

Start at: 2017-10-12 13:33:38

End at: 2017-10-12 13:34:08

Below is generated by plot.py at 2017-10-12 16:51:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 417.94 Mbit/s

95th percentile per-packet one-way delay: 52.365 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 239.75 Mbit/s

95th percentile per-packet one-way delay: 50.810 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 198.71 Mbit/s

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

Loss rate: 0.01%

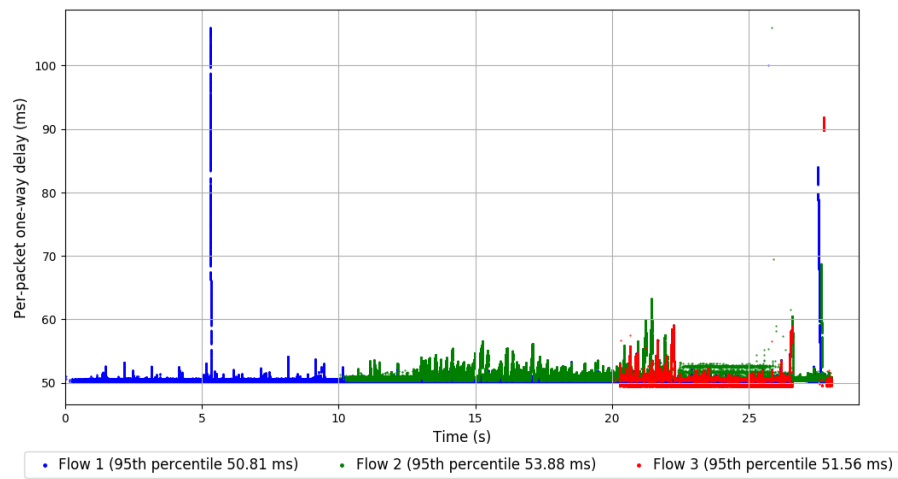
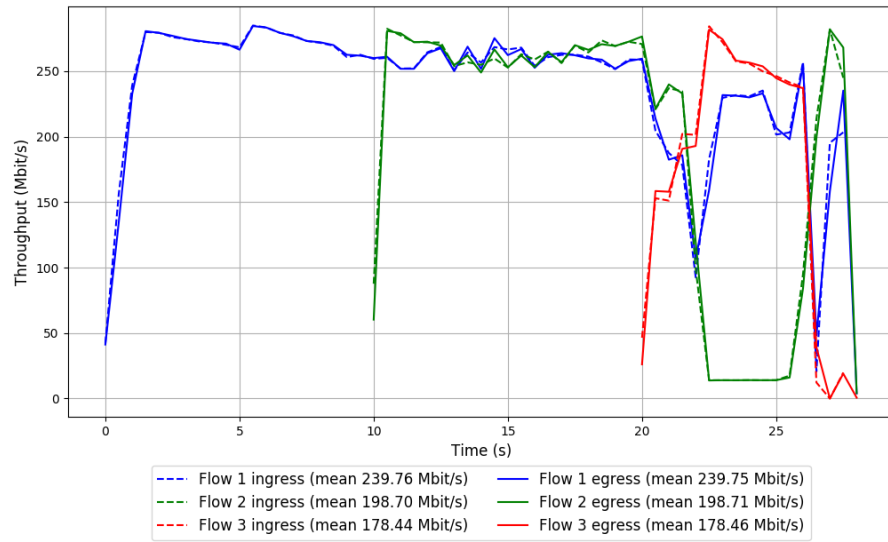
-- Flow 3:

Average throughput: 178.46 Mbit/s

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

Loss rate: 0.01%

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



Run 7: Statistics of TaoVA-100x

Start at: 2017-10-12 13:46:08

End at: 2017-10-12 13:46:38

Below is generated by plot.py at 2017-10-12 16:51:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 378.06 Mbit/s

95th percentile per-packet one-way delay: 52.406 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 221.55 Mbit/s

95th percentile per-packet one-way delay: 51.454 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 179.76 Mbit/s

95th percentile per-packet one-way delay: 52.992 ms

Loss rate: 0.00%

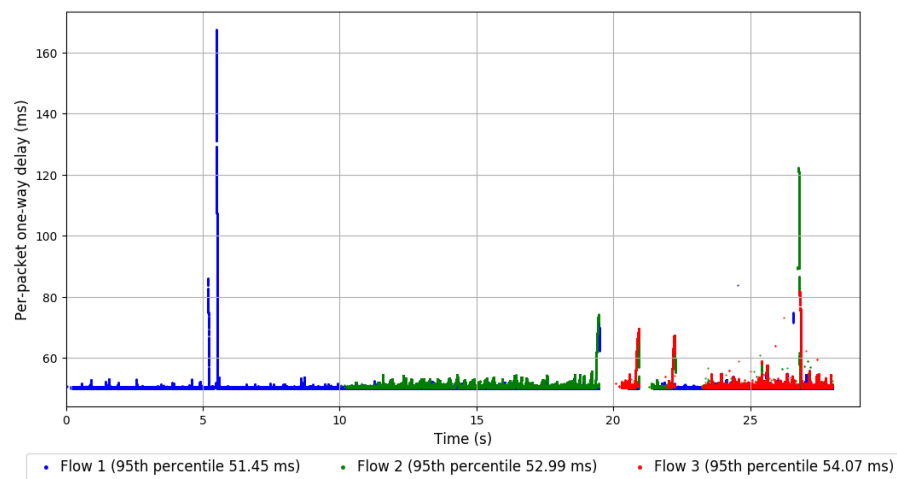
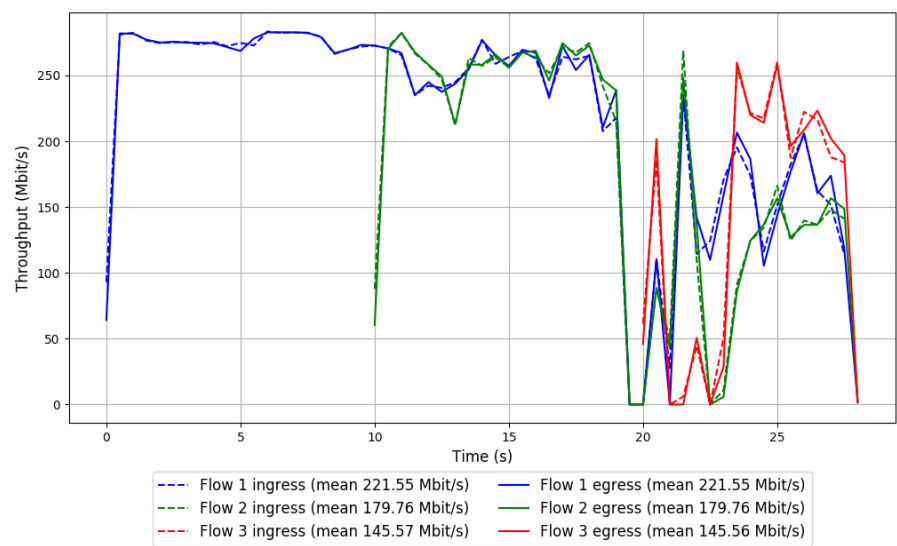
-- Flow 3:

Average throughput: 145.56 Mbit/s

95th percentile per-packet one-way delay: 54.070 ms

Loss rate: 0.03%

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



Run 8: Statistics of TaoVA-100x

Start at: 2017-10-12 13:58:45

End at: 2017-10-12 13:59:15

Below is generated by plot.py at 2017-10-12 16:53:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 371.27 Mbit/s

95th percentile per-packet one-way delay: 51.063 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 201.66 Mbit/s

95th percentile per-packet one-way delay: 51.005 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 153.65 Mbit/s

95th percentile per-packet one-way delay: 50.729 ms

Loss rate: 0.00%

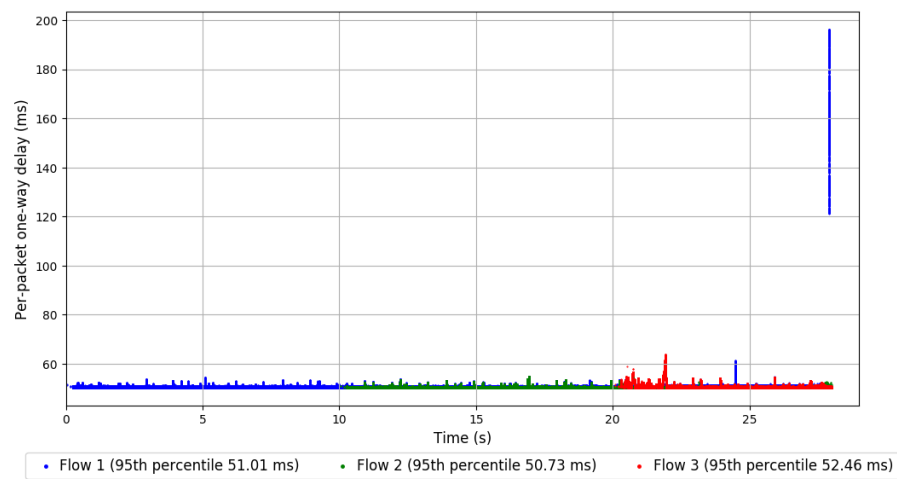
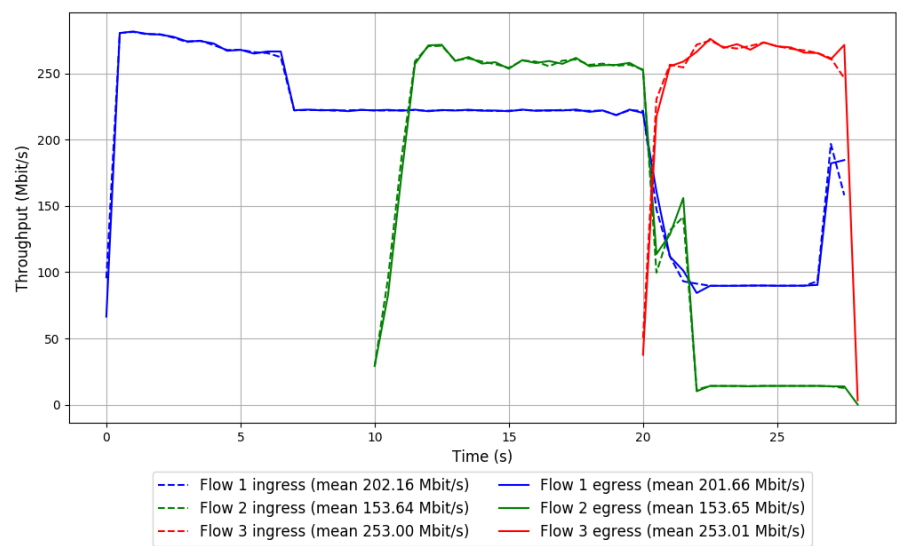
-- Flow 3:

Average throughput: 253.01 Mbit/s

95th percentile per-packet one-way delay: 52.461 ms

Loss rate: 0.00%

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



Run 9: Statistics of TaoVA-100x

Start at: 2017-10-12 14:11:23

End at: 2017-10-12 14:11:53

Below is generated by plot.py at 2017-10-12 17:02:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 425.42 Mbit/s

95th percentile per-packet one-way delay: 53.417 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 244.40 Mbit/s

95th percentile per-packet one-way delay: 54.490 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 193.25 Mbit/s

95th percentile per-packet one-way delay: 51.726 ms

Loss rate: 0.00%

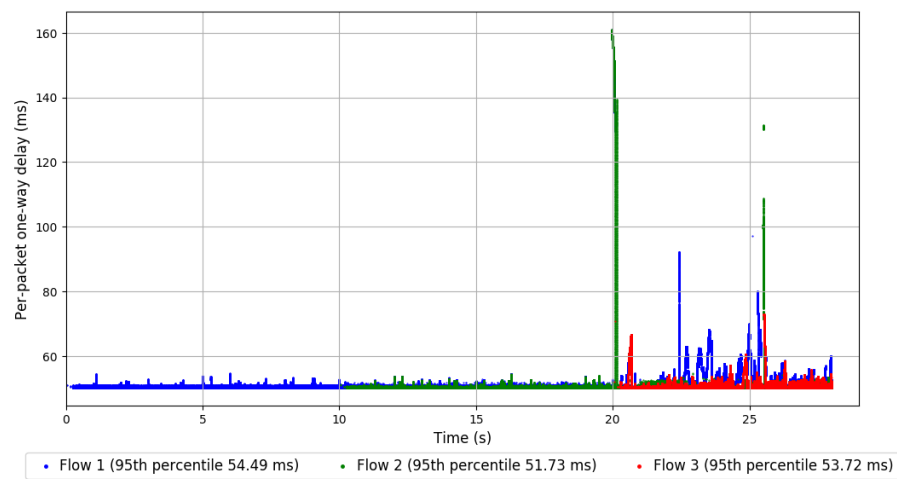
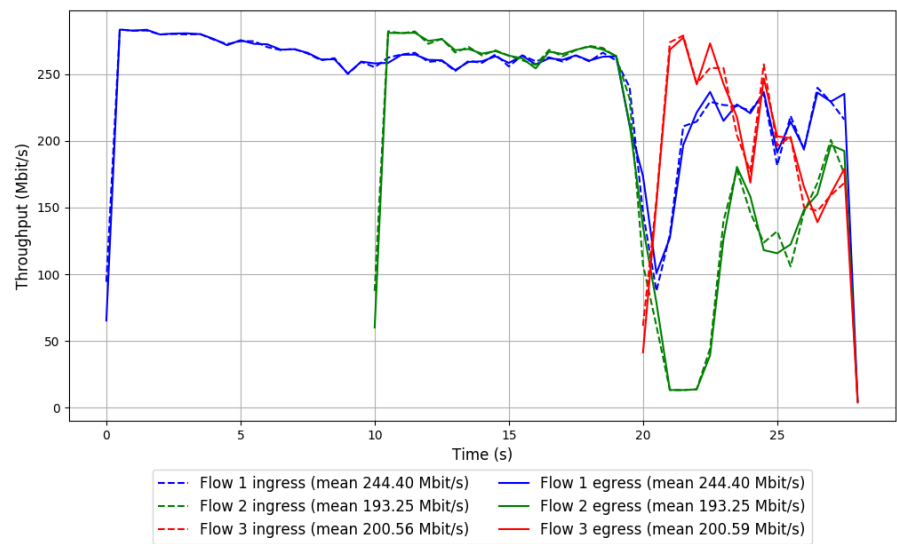
-- Flow 3:

Average throughput: 200.59 Mbit/s

95th percentile per-packet one-way delay: 53.719 ms

Loss rate: 0.00%

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

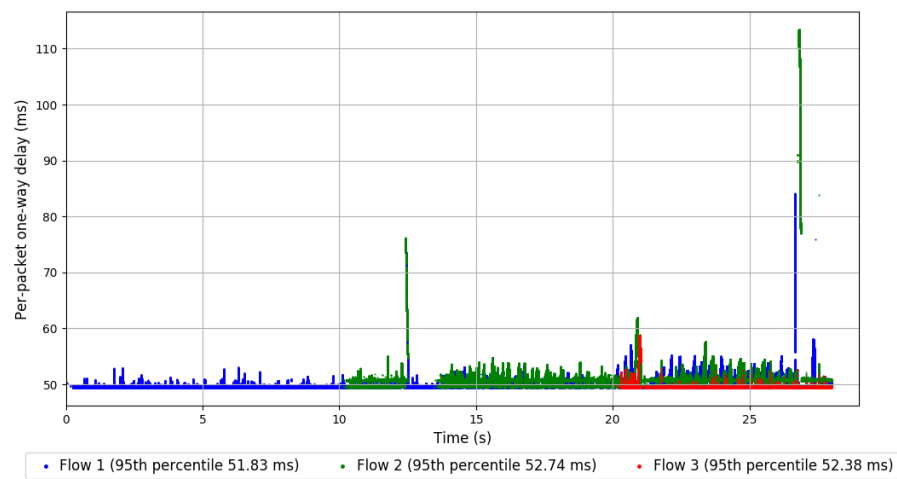
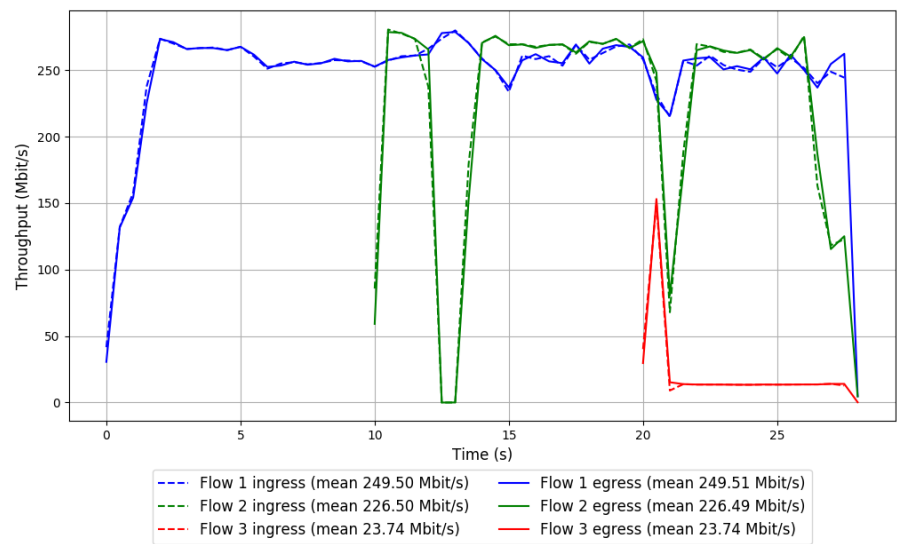


```
Run 10: Statistics of TaoVA-100x

Start at: 2017-10-12 14:24:00
End at: 2017-10-12 14:24:30

# Below is generated by plot.py at 2017-10-12 17:02:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 401.59 Mbit/s
95th percentile per-packet one-way delay: 52.243 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 249.51 Mbit/s
95th percentile per-packet one-way delay: 51.830 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 226.49 Mbit/s
95th percentile per-packet one-way delay: 52.737 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 23.74 Mbit/s
95th percentile per-packet one-way delay: 52.383 ms
Loss rate: 0.00%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2017-10-12 12:27:35

End at: 2017-10-12 12:28:05

Below is generated by plot.py at 2017-10-12 17:02:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 197.84 Mbit/s

95th percentile per-packet one-way delay: 51.103 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 94.39 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 144.73 Mbit/s

95th percentile per-packet one-way delay: 51.169 ms

Loss rate: 0.00%

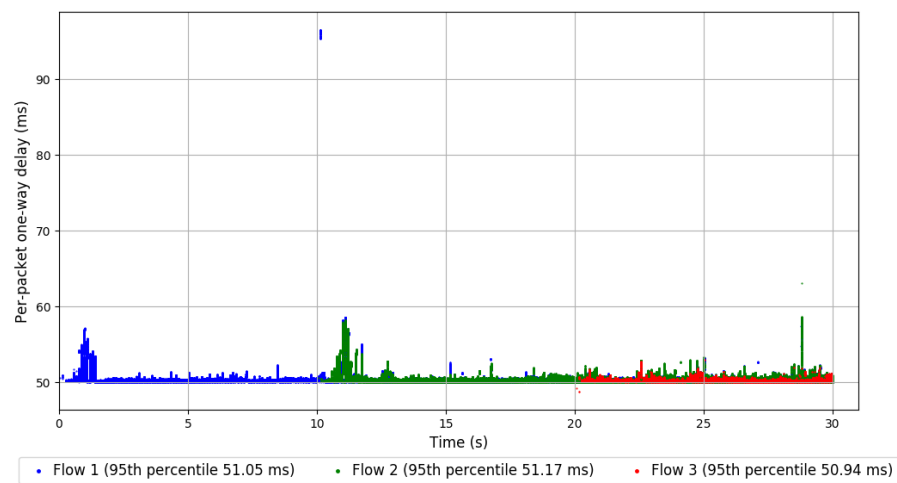
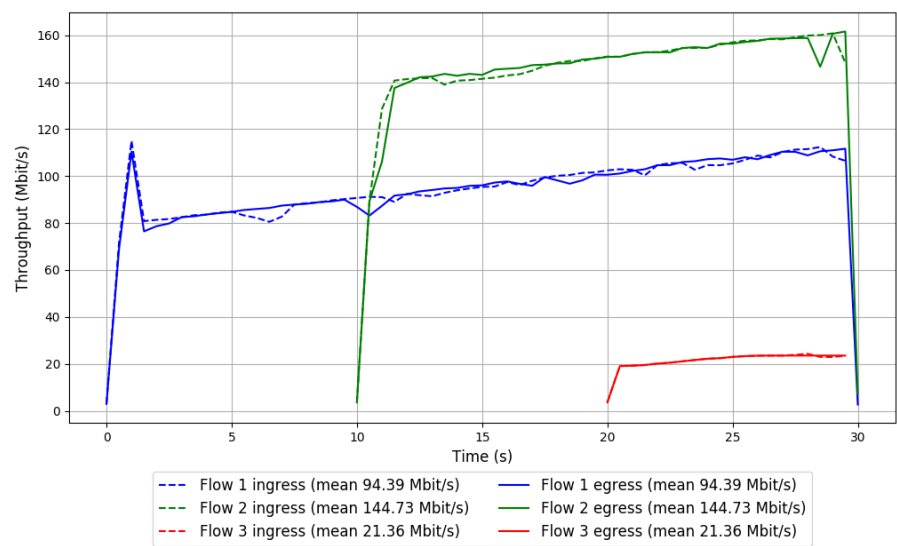
-- Flow 3:

Average throughput: 21.36 Mbit/s

95th percentile per-packet one-way delay: 50.936 ms

Loss rate: 0.00%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2017-10-12 12:40:05

End at: 2017-10-12 12:40:35

Below is generated by plot.py at 2017-10-12 17:02:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 144.55 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 64.94 Mbit/s

95th percentile per-packet one-way delay: 50.913 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 76.56 Mbit/s

95th percentile per-packet one-way delay: 51.368 ms

Loss rate: 0.00%

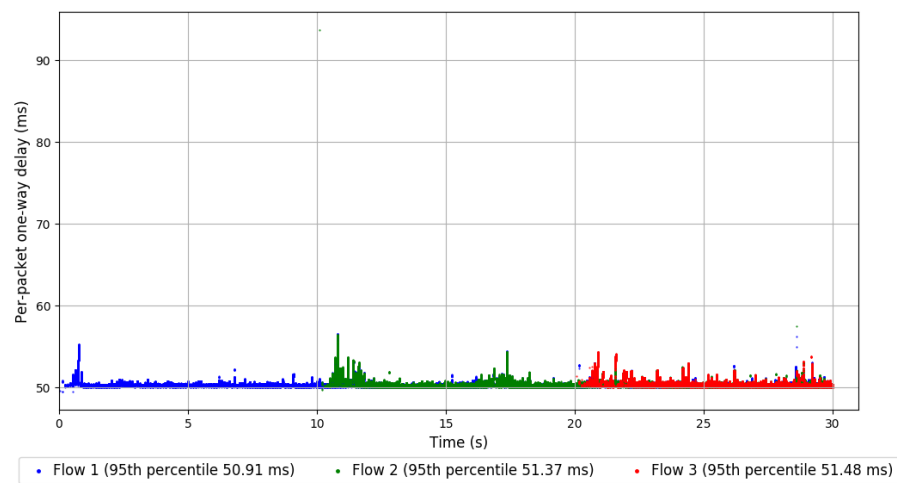
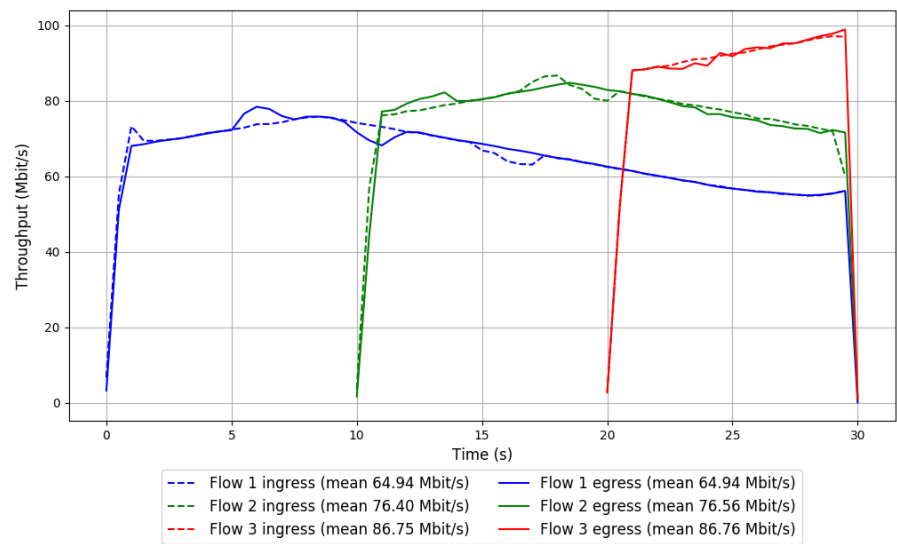
-- Flow 3:

Average throughput: 86.76 Mbit/s

95th percentile per-packet one-way delay: 51.481 ms

Loss rate: 0.00%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2017-10-12 12:52:32

End at: 2017-10-12 12:53:02

Below is generated by plot.py at 2017-10-12 17:02:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 134.00 Mbit/s

95th percentile per-packet one-way delay: 51.384 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 76.62 Mbit/s

95th percentile per-packet one-way delay: 51.181 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 68.99 Mbit/s

95th percentile per-packet one-way delay: 51.819 ms

Loss rate: 0.00%

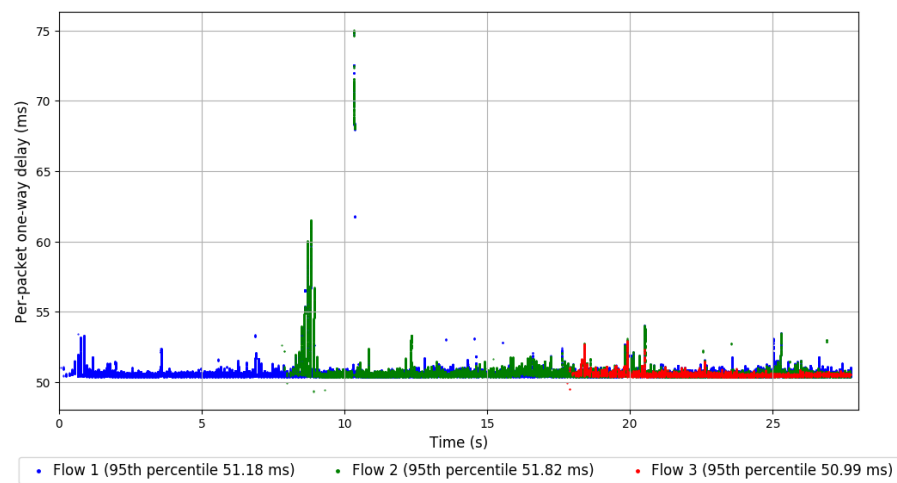
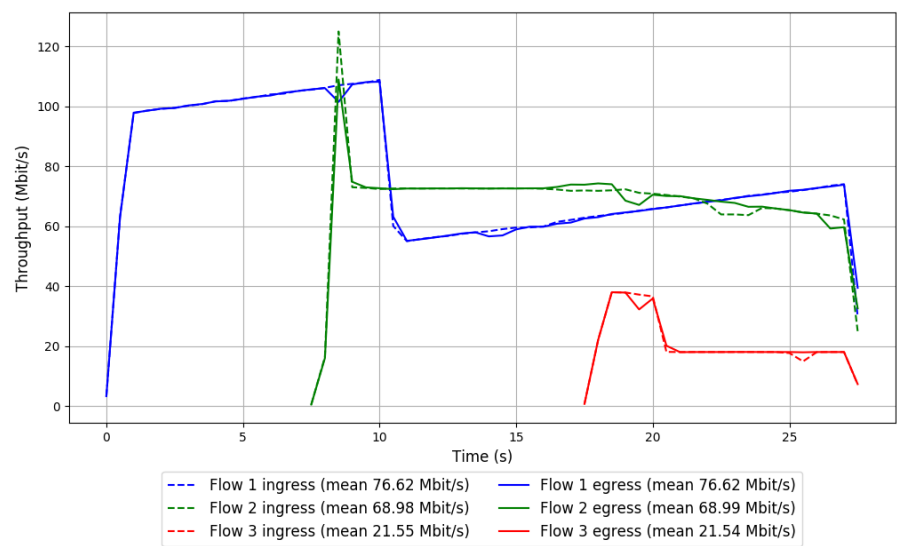
-- Flow 3:

Average throughput: 21.54 Mbit/s

95th percentile per-packet one-way delay: 50.988 ms

Loss rate: 0.02%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2017-10-12 13:05:03

End at: 2017-10-12 13:05:33

Below is generated by plot.py at 2017-10-12 17:02:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 116.72 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 74.99 Mbit/s

95th percentile per-packet one-way delay: 51.295 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 44.61 Mbit/s

95th percentile per-packet one-way delay: 51.509 ms

Loss rate: 0.00%

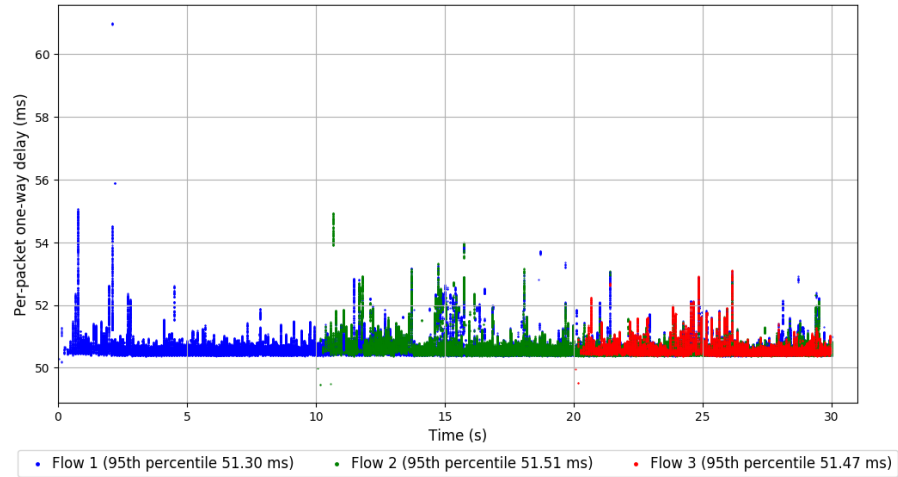
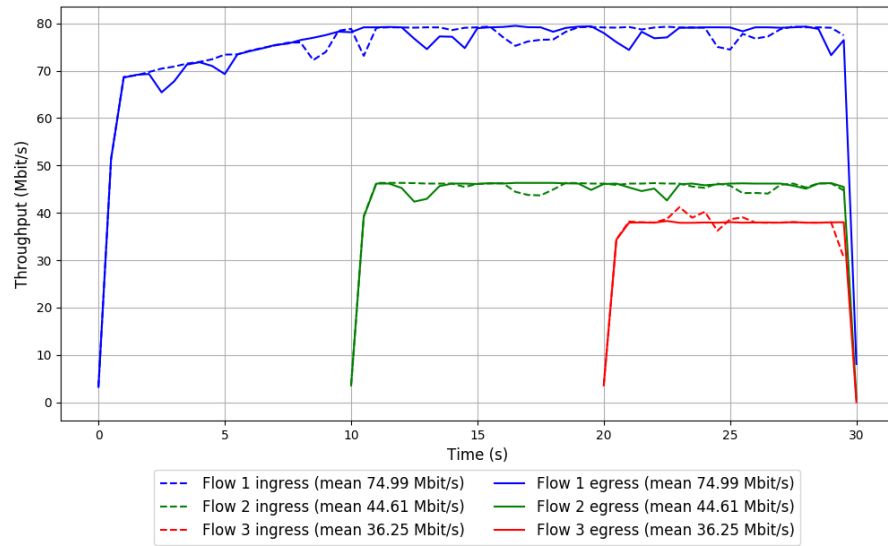
-- Flow 3:

Average throughput: 36.25 Mbit/s

95th percentile per-packet one-way delay: 51.473 ms

Loss rate: 0.00%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2017-10-12 13:17:29

End at: 2017-10-12 13:17:59

Below is generated by plot.py at 2017-10-12 17:02:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.15 Mbit/s

95th percentile per-packet one-way delay: 51.218 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 35.00 Mbit/s

95th percentile per-packet one-way delay: 51.154 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 58.70 Mbit/s

95th percentile per-packet one-way delay: 51.161 ms

Loss rate: 0.00%

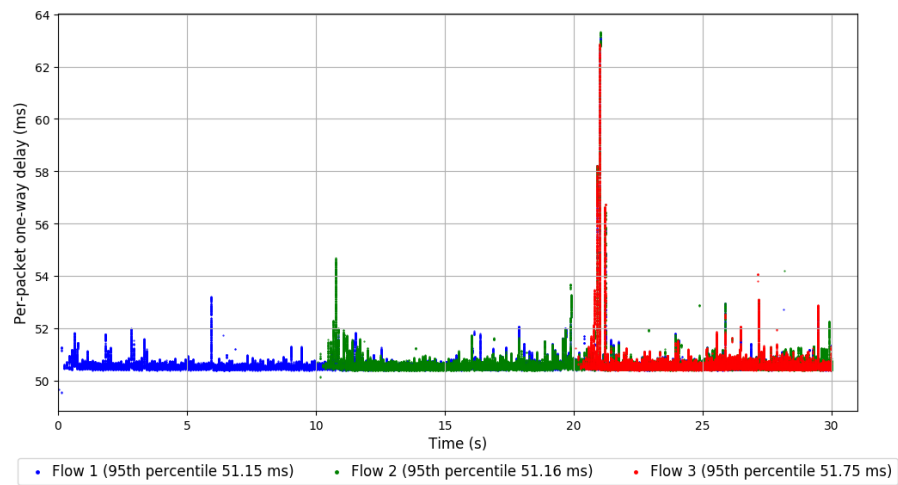
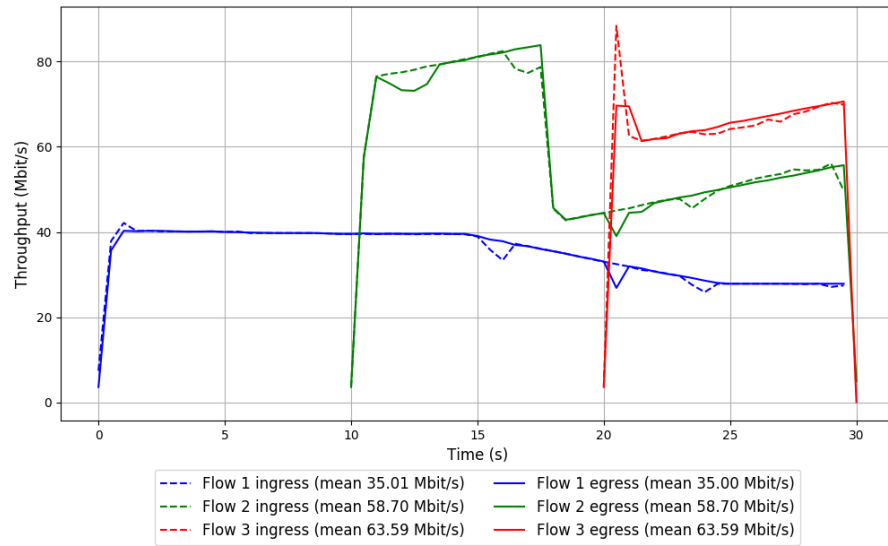
-- Flow 3:

Average throughput: 63.59 Mbit/s

95th percentile per-packet one-way delay: 51.747 ms

Loss rate: 0.00%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2017-10-12 13:29:55

End at: 2017-10-12 13:30:25

Below is generated by plot.py at 2017-10-12 17:02:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 195.65 Mbit/s

95th percentile per-packet one-way delay: 51.851 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 107.24 Mbit/s

95th percentile per-packet one-way delay: 51.453 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 78.18 Mbit/s

95th percentile per-packet one-way delay: 51.613 ms

Loss rate: 0.00%

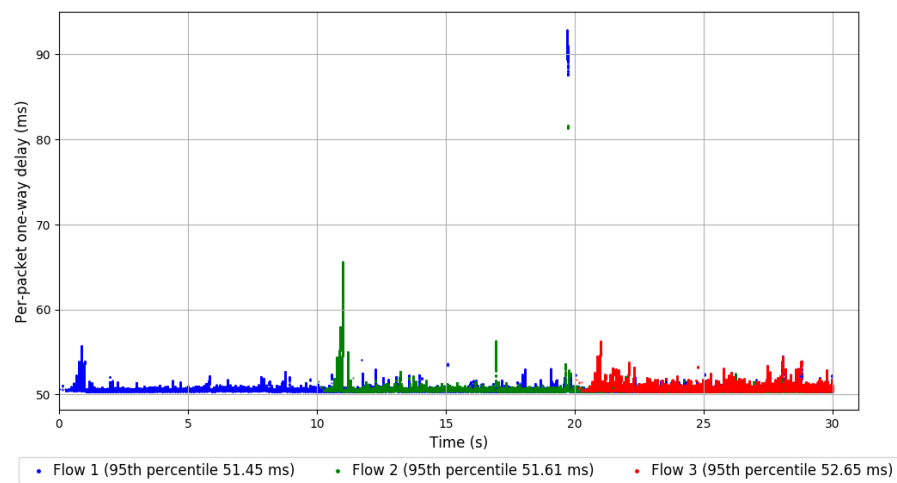
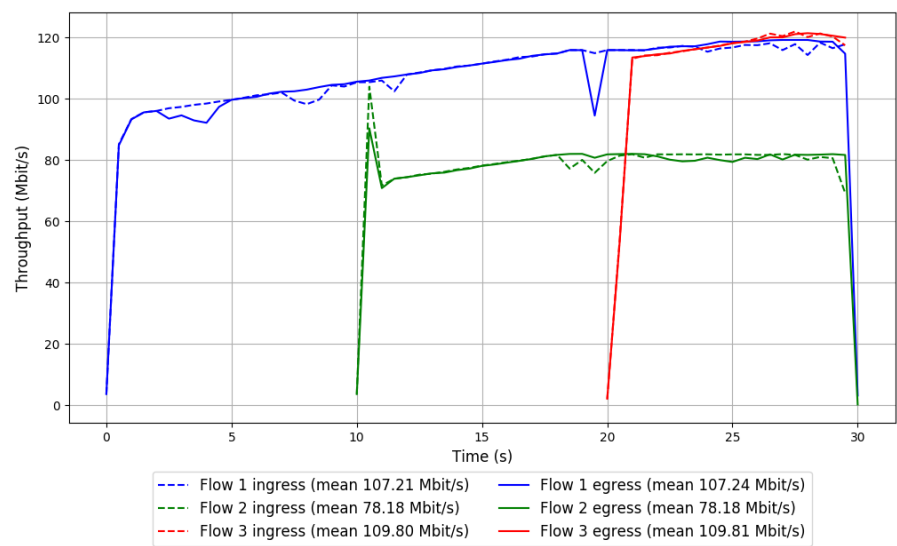
-- Flow 3:

Average throughput: 109.81 Mbit/s

95th percentile per-packet one-way delay: 52.652 ms

Loss rate: 0.00%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2017-10-12 13:42:26

End at: 2017-10-12 13:42:56

Below is generated by plot.py at 2017-10-12 17:02:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 155.72 Mbit/s

95th percentile per-packet one-way delay: 56.600 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 50.79 Mbit/s

95th percentile per-packet one-way delay: 56.002 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 47.04 Mbit/s

95th percentile per-packet one-way delay: 55.359 ms

Loss rate: 0.00%

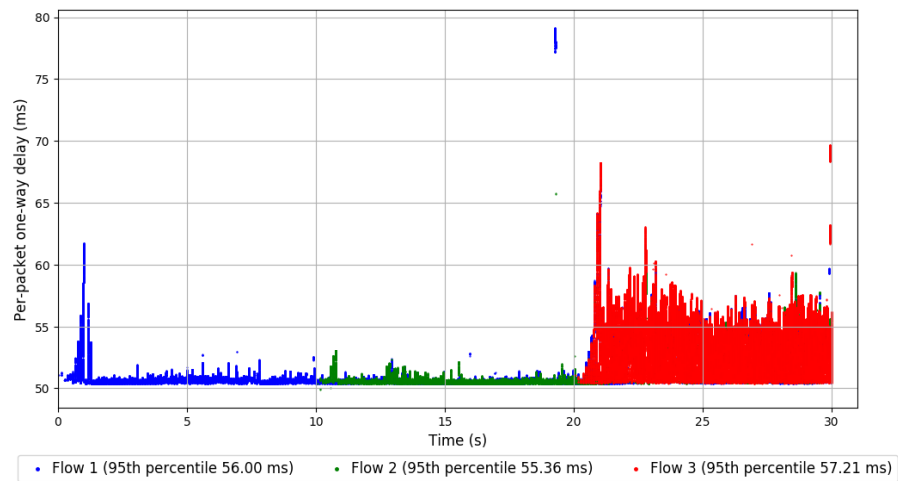
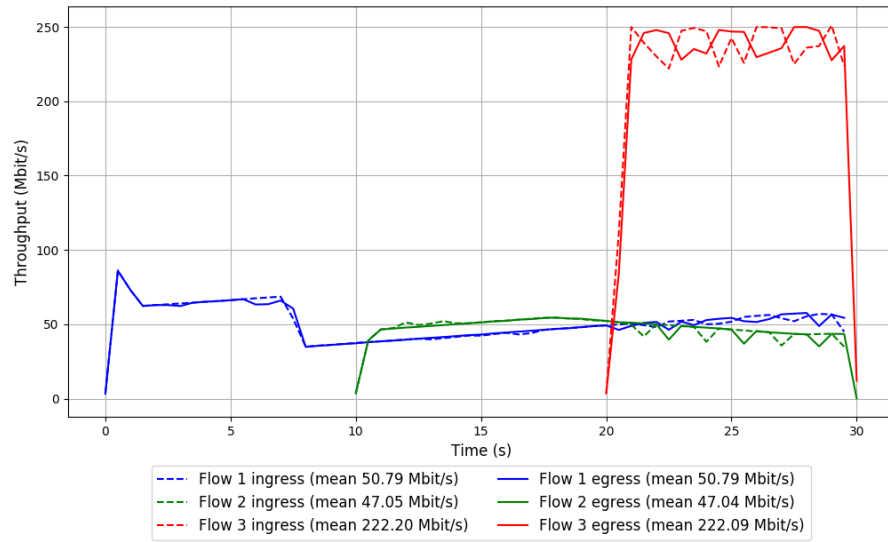
-- Flow 3:

Average throughput: 222.09 Mbit/s

95th percentile per-packet one-way delay: 57.211 ms

Loss rate: 0.00%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2017-10-12 13:54:59

End at: 2017-10-12 13:55:29

Below is generated by plot.py at 2017-10-12 17:02:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 267.73 Mbit/s

95th percentile per-packet one-way delay: 51.791 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 100.31 Mbit/s

95th percentile per-packet one-way delay: 51.615 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 212.99 Mbit/s

95th percentile per-packet one-way delay: 51.799 ms

Loss rate: 0.00%

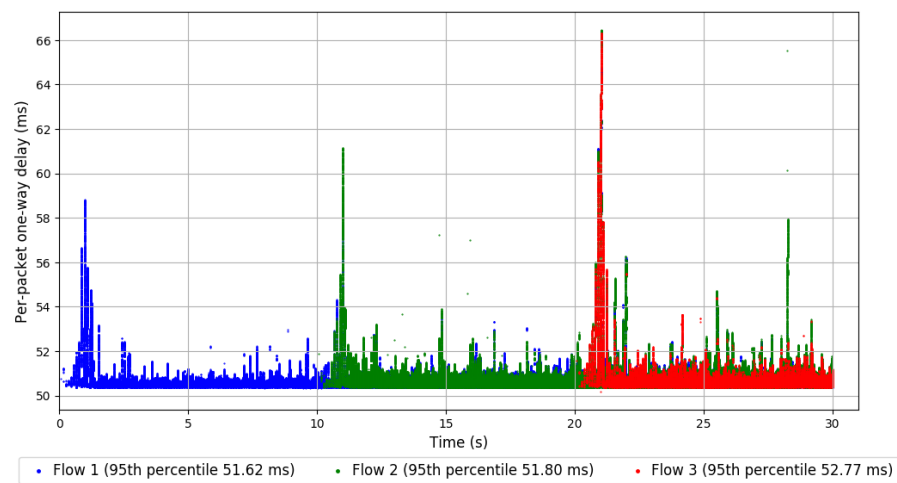
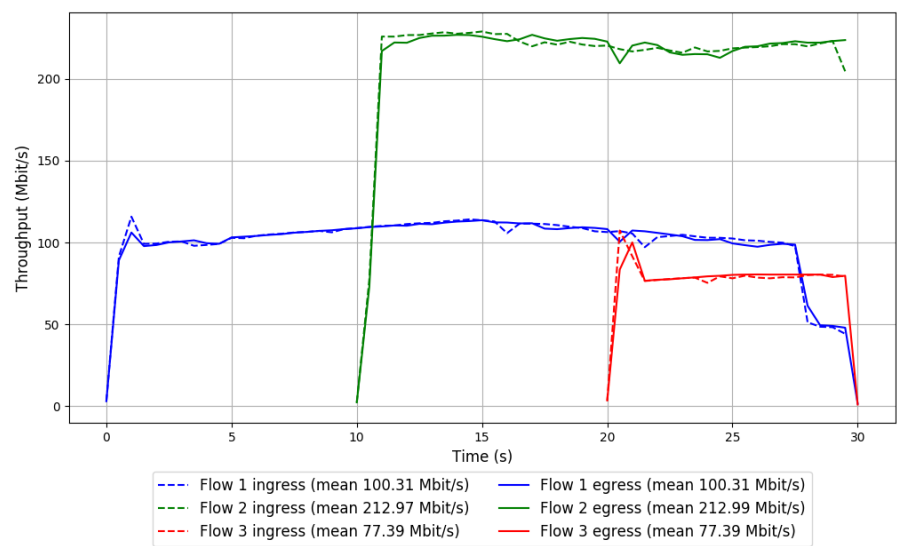
-- Flow 3:

Average throughput: 77.39 Mbit/s

95th percentile per-packet one-way delay: 52.774 ms

Loss rate: 0.00%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2017-10-12 14:07:35

End at: 2017-10-12 14:08:05

Below is generated by plot.py at 2017-10-12 17:02:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 249.40 Mbit/s

95th percentile per-packet one-way delay: 51.866 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 168.99 Mbit/s

95th percentile per-packet one-way delay: 51.608 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 65.97 Mbit/s

95th percentile per-packet one-way delay: 52.654 ms

Loss rate: 0.01%

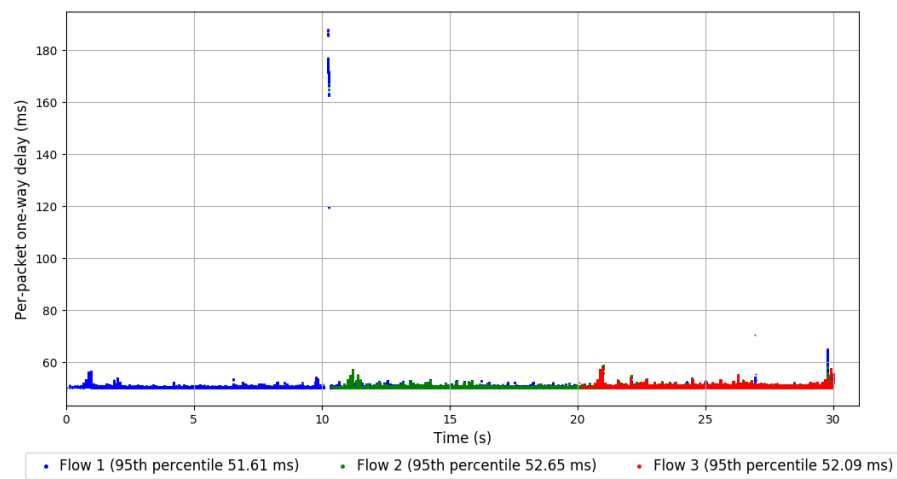
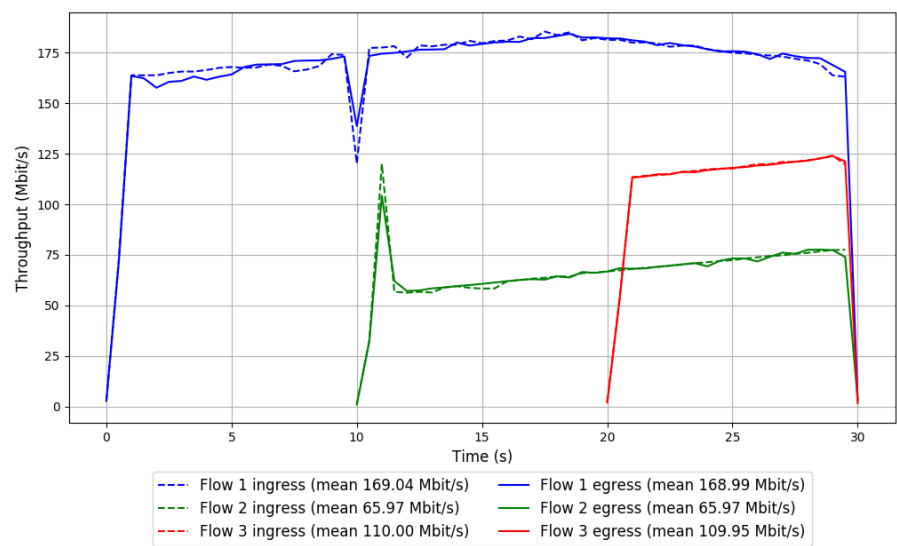
-- Flow 3:

Average throughput: 109.95 Mbit/s

95th percentile per-packet one-way delay: 52.086 ms

Loss rate: 0.02%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2017-10-12 14:20:19

End at: 2017-10-12 14:20:49

Below is generated by plot.py at 2017-10-12 17:02:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 150.32 Mbit/s

95th percentile per-packet one-way delay: 52.828 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 72.40 Mbit/s

95th percentile per-packet one-way delay: 52.213 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 56.67 Mbit/s

95th percentile per-packet one-way delay: 53.005 ms

Loss rate: 0.00%

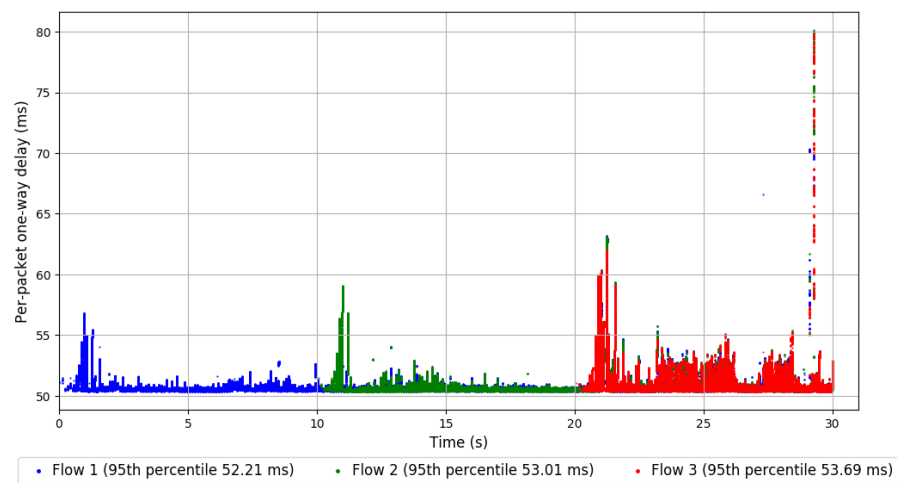
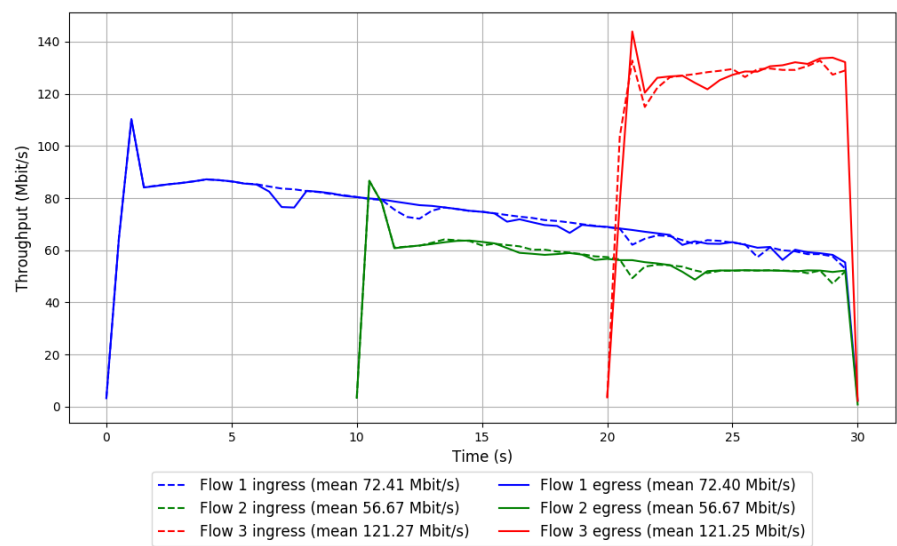
-- Flow 3:

Average throughput: 121.25 Mbit/s

95th percentile per-packet one-way delay: 53.686 ms

Loss rate: 0.00%

Run 10: Report of TCP Vegas — Data Link

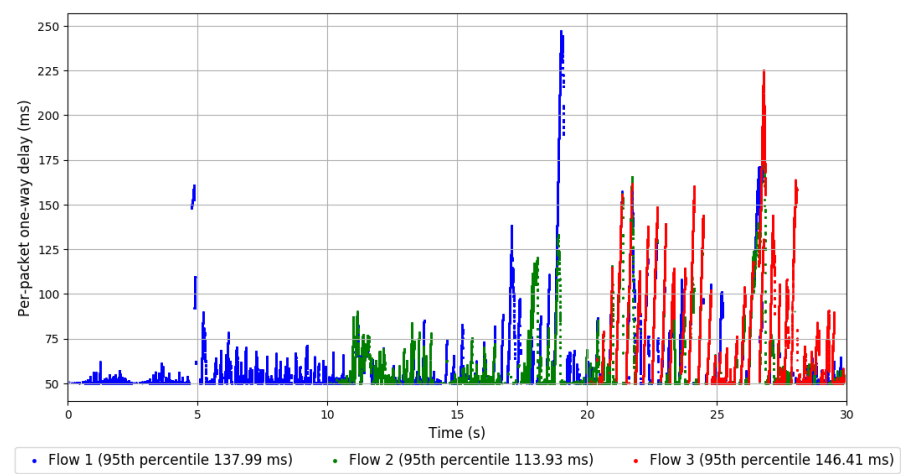
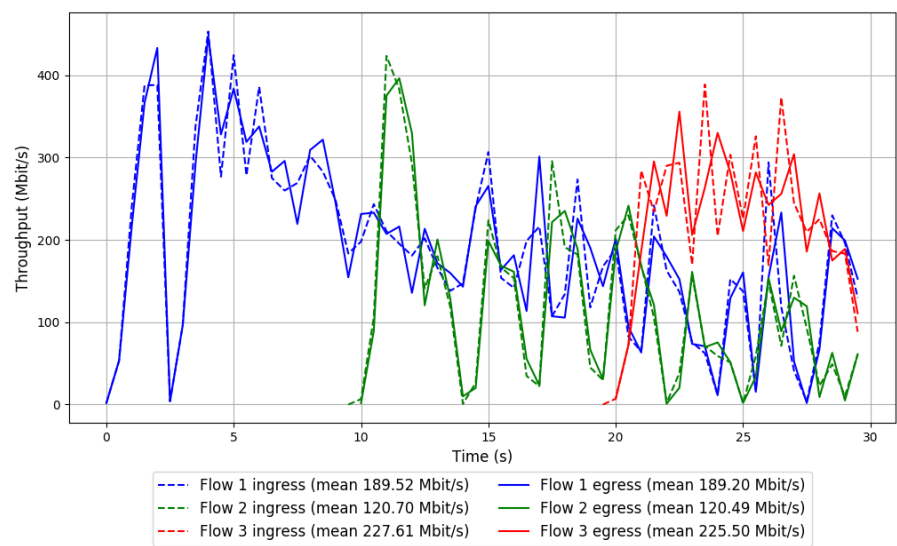


```
Run 1: Statistics of Verus

Start at: 2017-10-12 12:34:40
End at: 2017-10-12 12:35:10

# Below is generated by plot.py at 2017-10-12 17:02:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 343.75 Mbit/s
95th percentile per-packet one-way delay: 137.978 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 189.20 Mbit/s
95th percentile per-packet one-way delay: 137.990 ms
Loss rate: 0.16%
-- Flow 2:
Average throughput: 120.49 Mbit/s
95th percentile per-packet one-way delay: 113.931 ms
Loss rate: 0.18%
-- Flow 3:
Average throughput: 225.50 Mbit/s
95th percentile per-packet one-way delay: 146.405 ms
Loss rate: 0.92%
```


Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2017-10-12 12:47:06

End at: 2017-10-12 12:47:36

Below is generated by plot.py at 2017-10-12 17:02:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 360.71 Mbit/s

95th percentile per-packet one-way delay: 171.939 ms

Loss rate: 0.14%

-- Flow 1:

Average throughput: 253.06 Mbit/s

95th percentile per-packet one-way delay: 182.292 ms

Loss rate: 0.16%

-- Flow 2:

Average throughput: 116.23 Mbit/s

95th percentile per-packet one-way delay: 127.118 ms

Loss rate: 0.01%

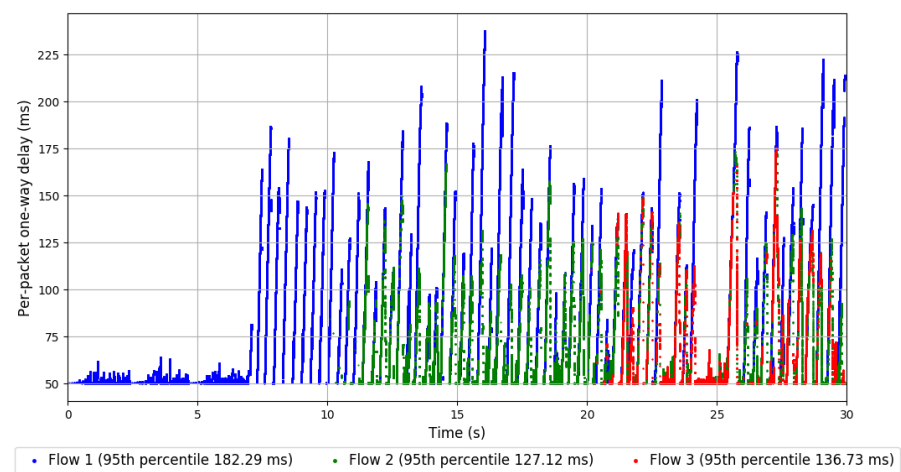
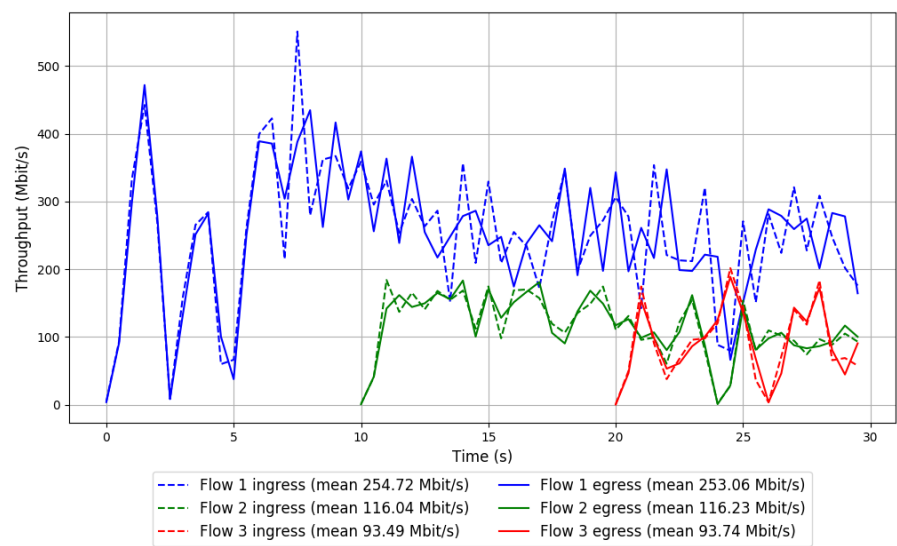
-- Flow 3:

Average throughput: 93.74 Mbit/s

95th percentile per-packet one-way delay: 136.727 ms

Loss rate: 0.28%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2017-10-12 12:59:35

End at: 2017-10-12 13:00:05

Below is generated by plot.py at 2017-10-12 17:02:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 350.29 Mbit/s

95th percentile per-packet one-way delay: 172.673 ms

Loss rate: 0.83%

-- Flow 1:

Average throughput: 212.30 Mbit/s

95th percentile per-packet one-way delay: 167.366 ms

Loss rate: 0.34%

-- Flow 2:

Average throughput: 99.24 Mbit/s

95th percentile per-packet one-way delay: 137.710 ms

Loss rate: 2.09%

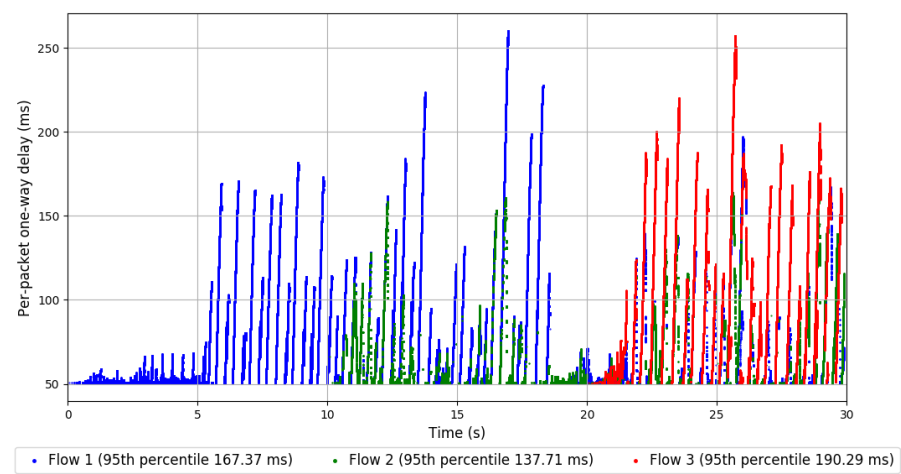
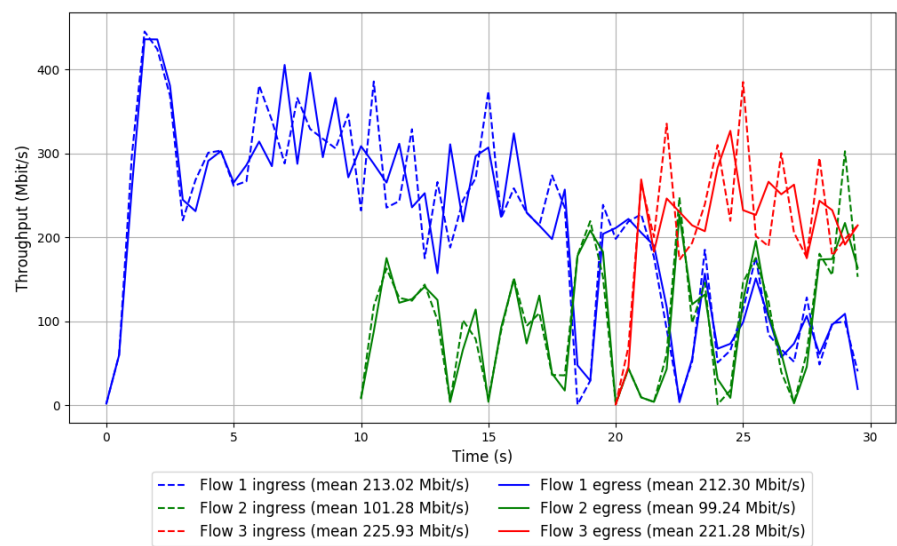
-- Flow 3:

Average throughput: 221.28 Mbit/s

95th percentile per-packet one-way delay: 190.295 ms

Loss rate: 1.09%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2017-10-12 13:12:02

End at: 2017-10-12 13:12:32

Below is generated by plot.py at 2017-10-12 17:02:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 342.68 Mbit/s

95th percentile per-packet one-way delay: 90.255 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 209.23 Mbit/s

95th percentile per-packet one-way delay: 84.978 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 121.75 Mbit/s

95th percentile per-packet one-way delay: 101.407 ms

Loss rate: 0.00%

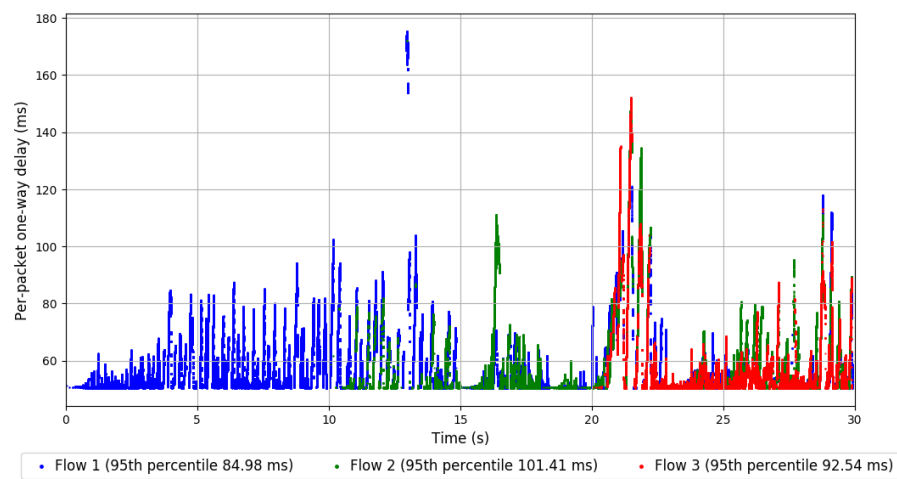
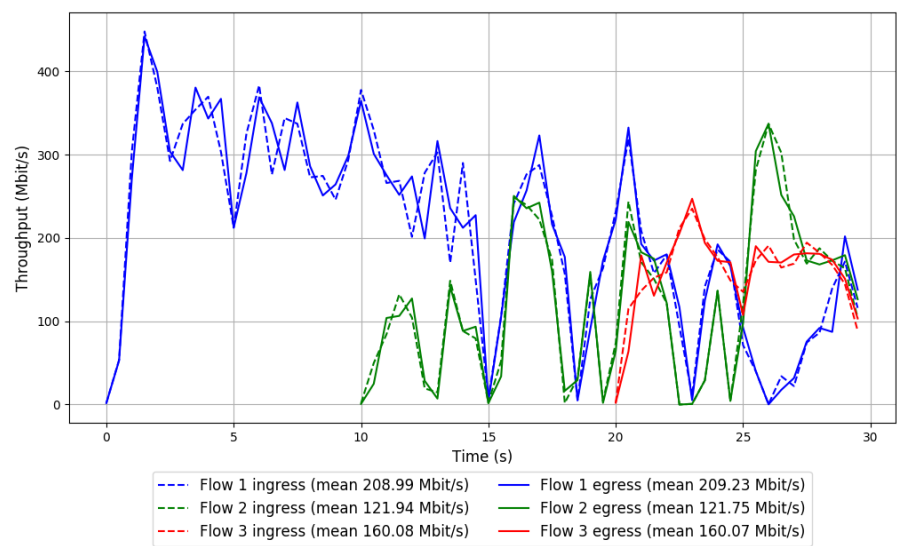
-- Flow 3:

Average throughput: 160.07 Mbit/s

95th percentile per-packet one-way delay: 92.543 ms

Loss rate: 0.00%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2017-10-12 13:24:32

End at: 2017-10-12 13:25:02

Below is generated by plot.py at 2017-10-12 17:03:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 338.46 Mbit/s

95th percentile per-packet one-way delay: 137.785 ms

Loss rate: 0.37%

-- Flow 1:

Average throughput: 190.14 Mbit/s

95th percentile per-packet one-way delay: 134.713 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 141.37 Mbit/s

95th percentile per-packet one-way delay: 133.471 ms

Loss rate: 0.67%

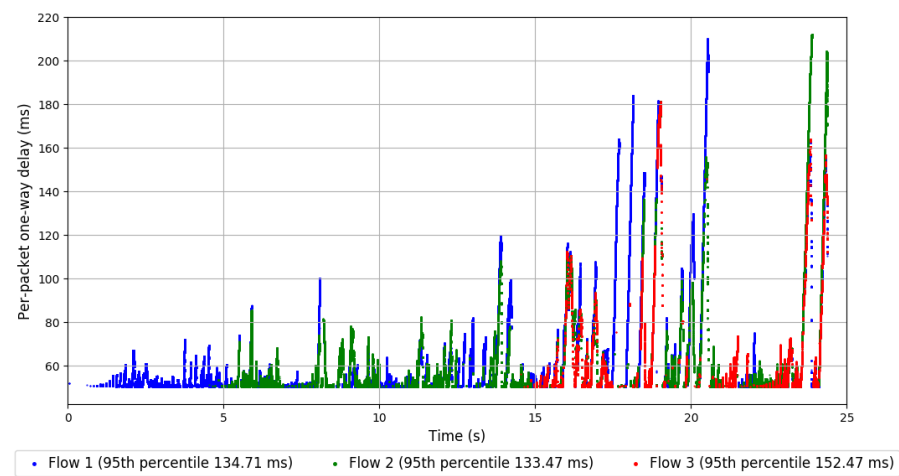
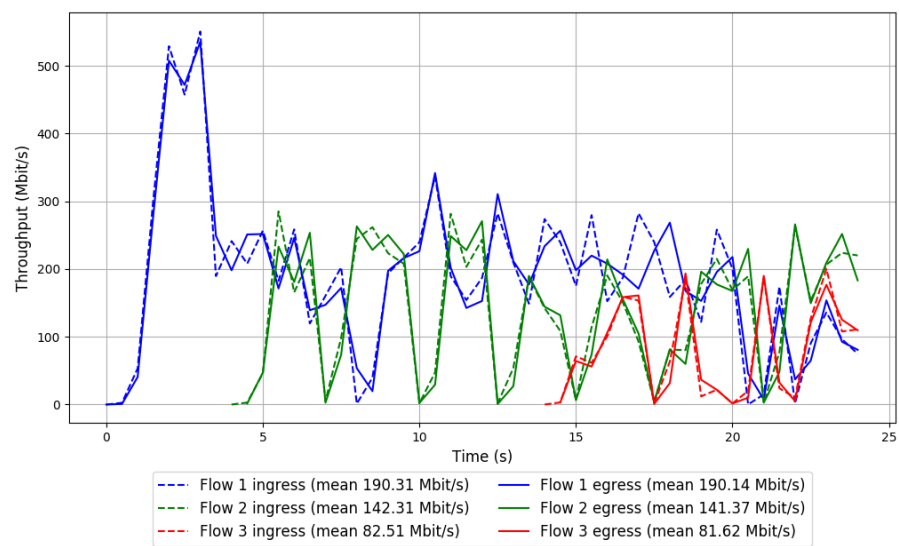
-- Flow 3:

Average throughput: 81.62 Mbit/s

95th percentile per-packet one-way delay: 152.475 ms

Loss rate: 1.13%

Run 5: Report of Verus — Data Link

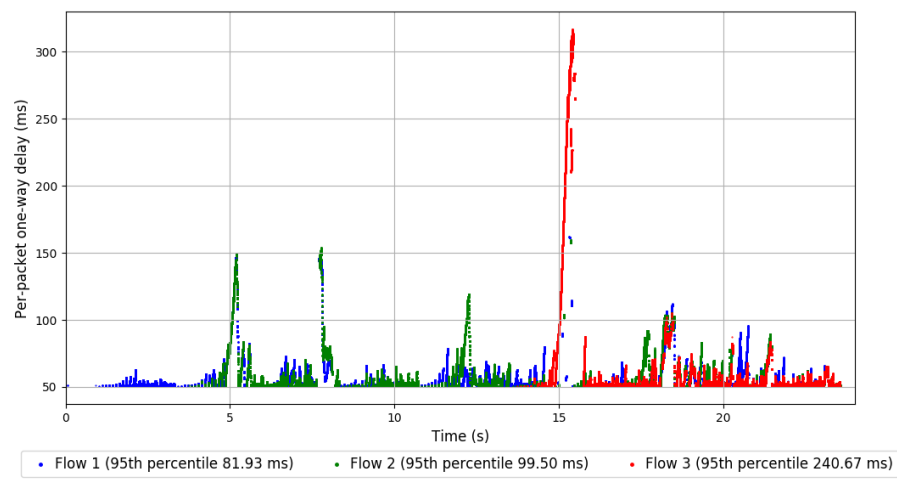
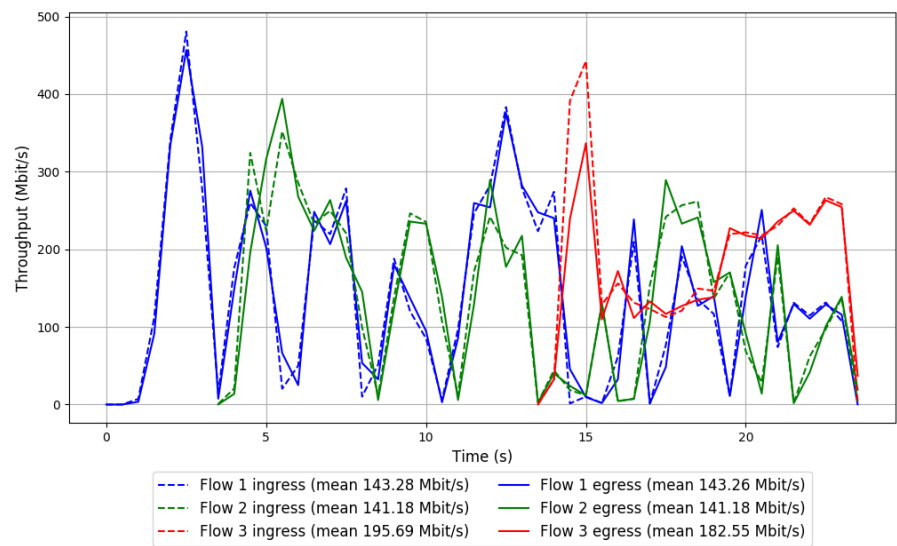


Run 6: Statistics of Verus

Start at: 2017-10-12 13:37:01

End at: 2017-10-12 13:37:31

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2017-10-12 13:49:28

End at: 2017-10-12 13:49:58

Below is generated by plot.py at 2017-10-12 17:07:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 378.79 Mbit/s

95th percentile per-packet one-way delay: 151.597 ms

Loss rate: 0.35%

-- Flow 1:

Average throughput: 268.39 Mbit/s

95th percentile per-packet one-way delay: 156.263 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 92.56 Mbit/s

95th percentile per-packet one-way delay: 114.081 ms

Loss rate: 0.00%

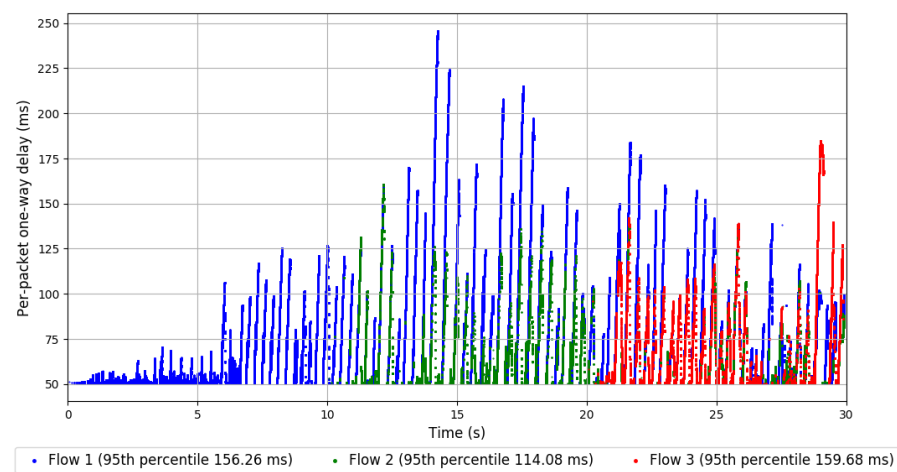
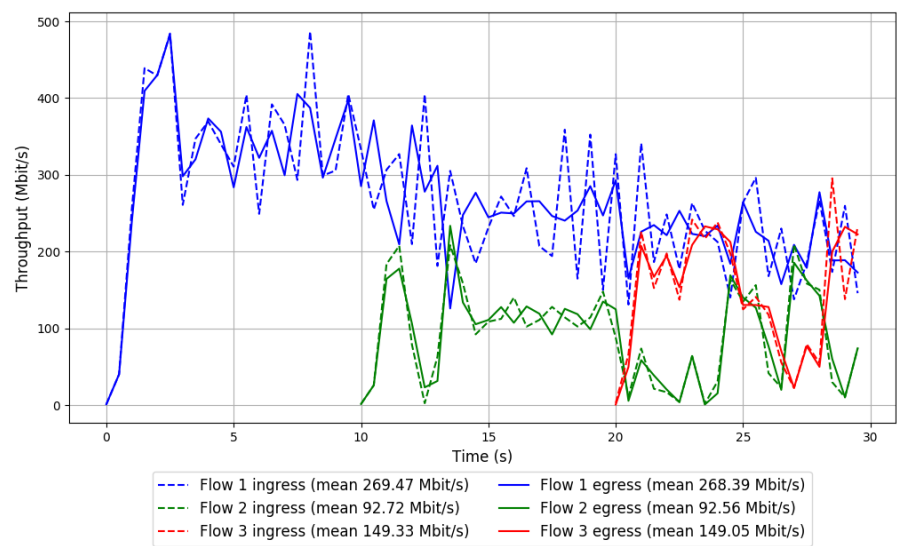
-- Flow 3:

Average throughput: 149.05 Mbit/s

95th percentile per-packet one-way delay: 159.682 ms

Loss rate: 0.65%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2017-10-12 14:02:04

End at: 2017-10-12 14:02:34

Below is generated by plot.py at 2017-10-12 17:09:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 379.32 Mbit/s

95th percentile per-packet one-way delay: 108.350 ms

Loss rate: 0.43%

-- Flow 1:

Average throughput: 264.86 Mbit/s

95th percentile per-packet one-way delay: 104.140 ms

Loss rate: 0.18%

-- Flow 2:

Average throughput: 126.81 Mbit/s

95th percentile per-packet one-way delay: 141.397 ms

Loss rate: 0.70%

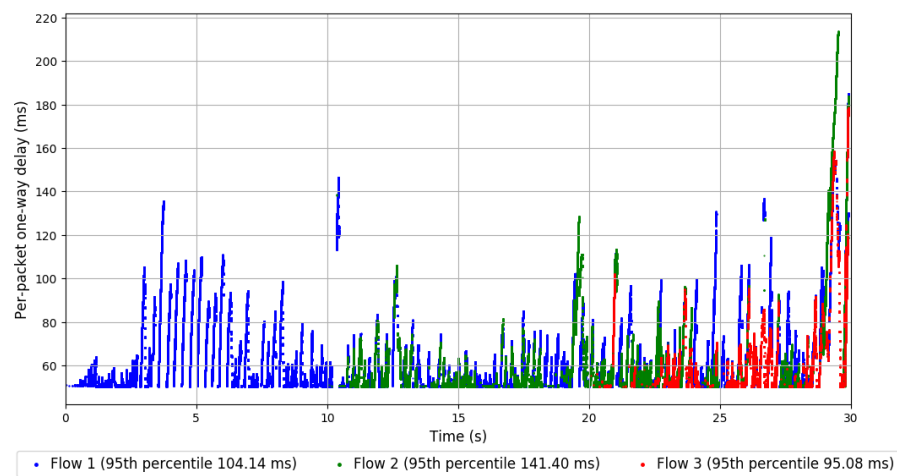
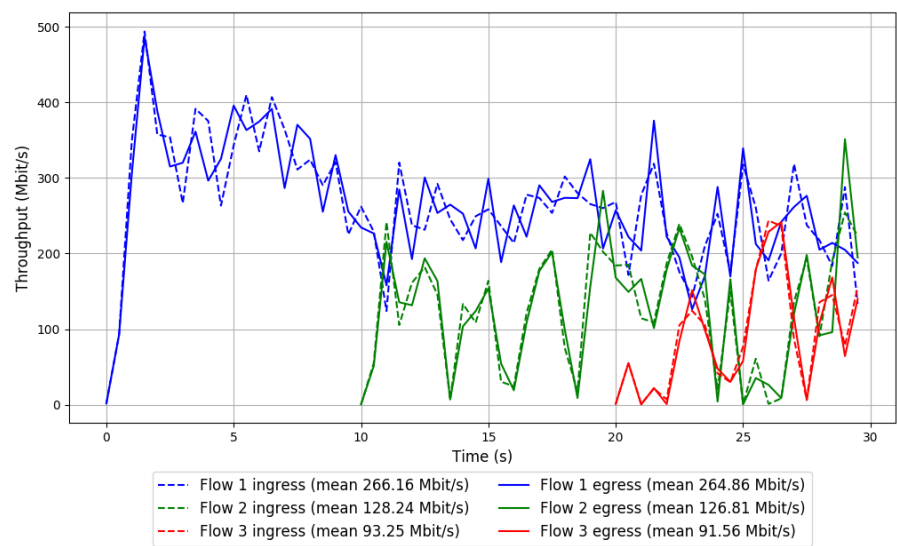
-- Flow 3:

Average throughput: 91.56 Mbit/s

95th percentile per-packet one-way delay: 95.079 ms

Loss rate: 1.86%

Run 8: Report of Verus — Data Link

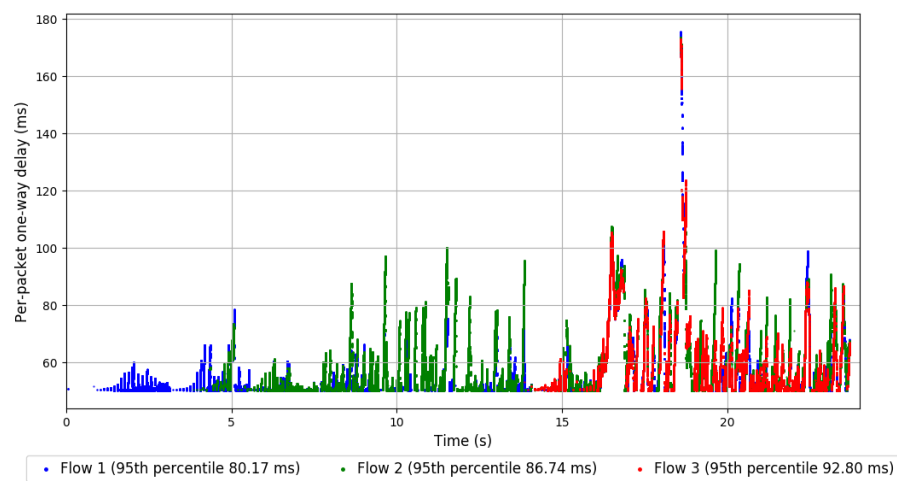
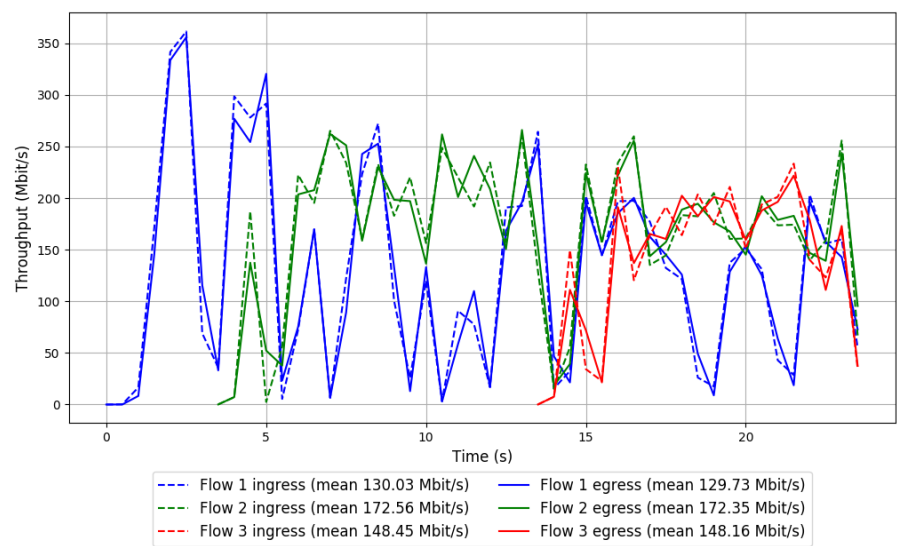


Run 9: Statistics of Verus

Start at: 2017-10-12 14:14:50

End at: 2017-10-12 14:15:20

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2017-10-12 14:27:25

End at: 2017-10-12 14:27:55

Below is generated by plot.py at 2017-10-12 17:09:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 350.59 Mbit/s

95th percentile per-packet one-way delay: 118.476 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 175.11 Mbit/s

95th percentile per-packet one-way delay: 118.881 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 169.79 Mbit/s

95th percentile per-packet one-way delay: 116.996 ms

Loss rate: 0.00%

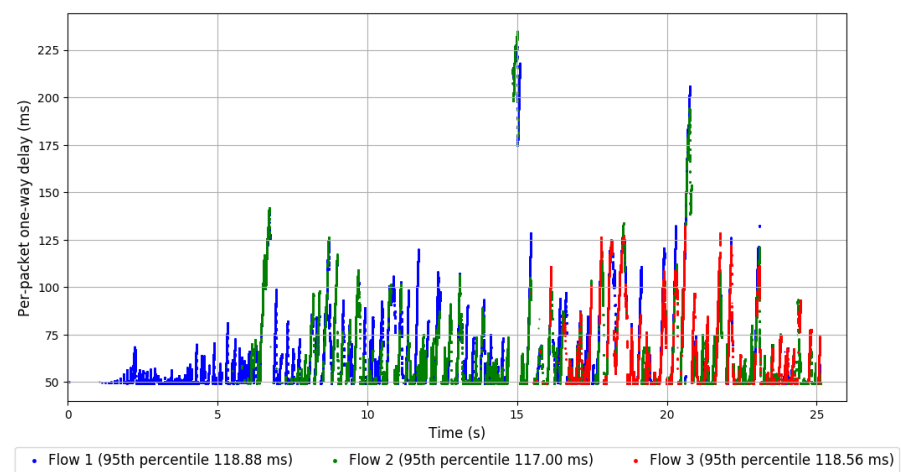
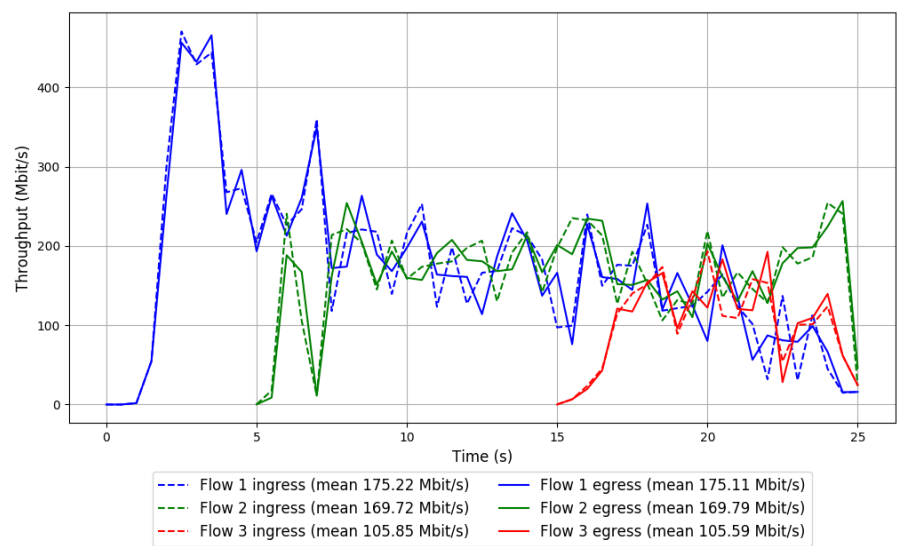
-- Flow 3:

Average throughput: 105.59 Mbit/s

95th percentile per-packet one-way delay: 118.563 ms

Loss rate: 0.00%

Run 10: Report of Verus — Data Link

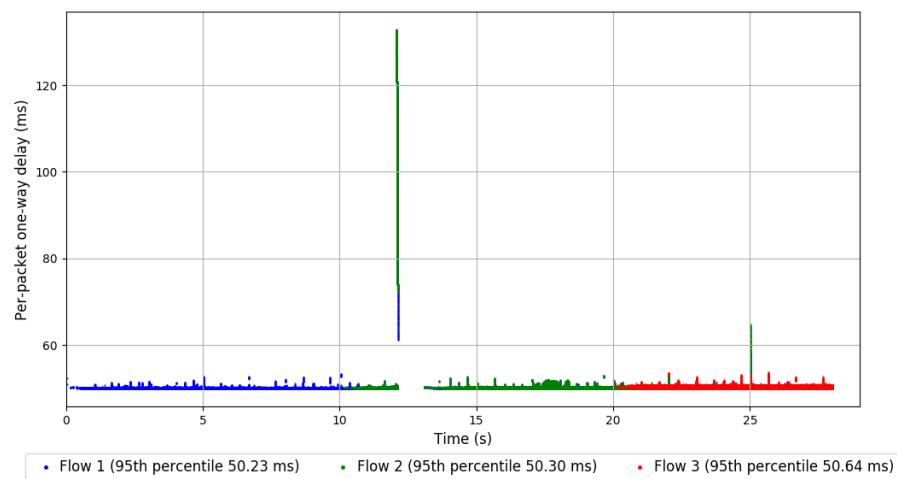
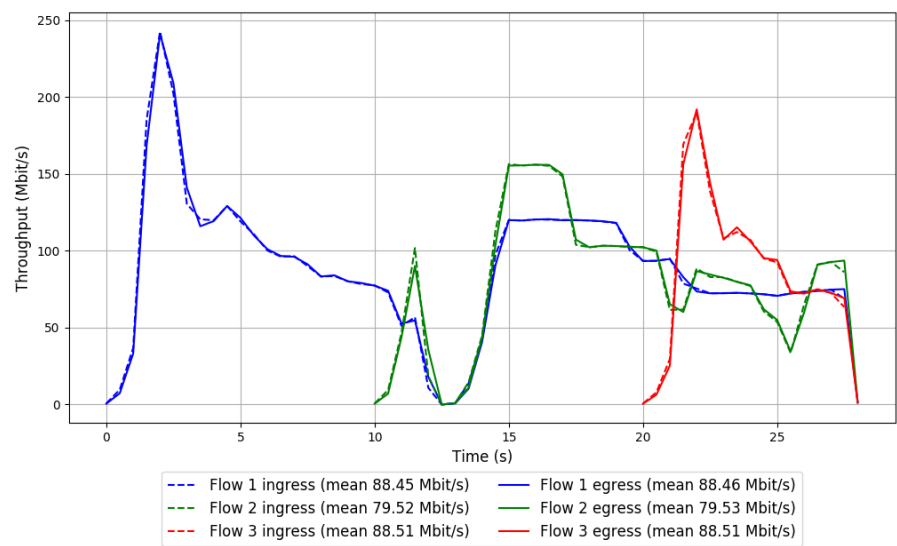


```
Run 1: Statistics of Copa

Start at: 2017-10-12 12:26:01
End at: 2017-10-12 12:26:31

# Below is generated by plot.py at 2017-10-12 17:09:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 164.66 Mbit/s
95th percentile per-packet one-way delay: 50.536 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 88.46 Mbit/s
95th percentile per-packet one-way delay: 50.230 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 79.53 Mbit/s
95th percentile per-packet one-way delay: 50.296 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 88.51 Mbit/s
95th percentile per-packet one-way delay: 50.644 ms
Loss rate: 0.00%
```

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2017-10-12 12:38:32

End at: 2017-10-12 12:39:02

Below is generated by plot.py at 2017-10-12 17:09:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 151.55 Mbit/s

95th percentile per-packet one-way delay: 50.532 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 71.17 Mbit/s

95th percentile per-packet one-way delay: 50.580 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 85.68 Mbit/s

95th percentile per-packet one-way delay: 50.447 ms

Loss rate: 0.00%

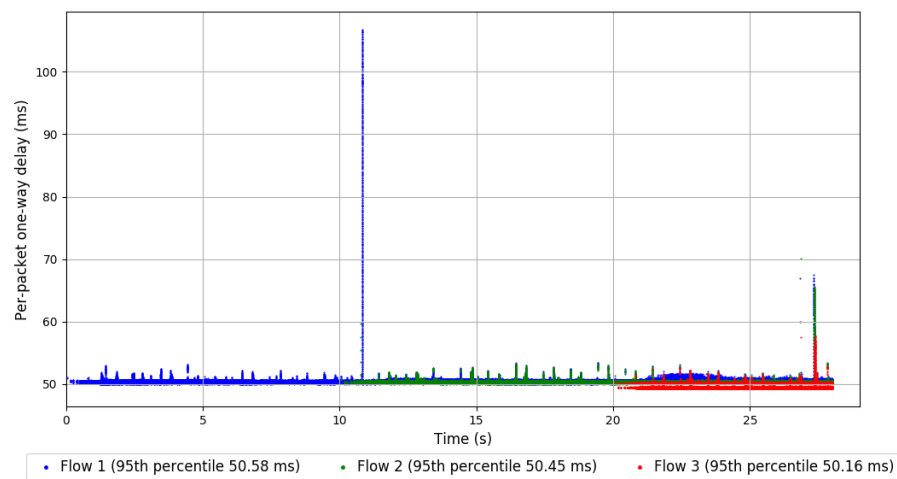
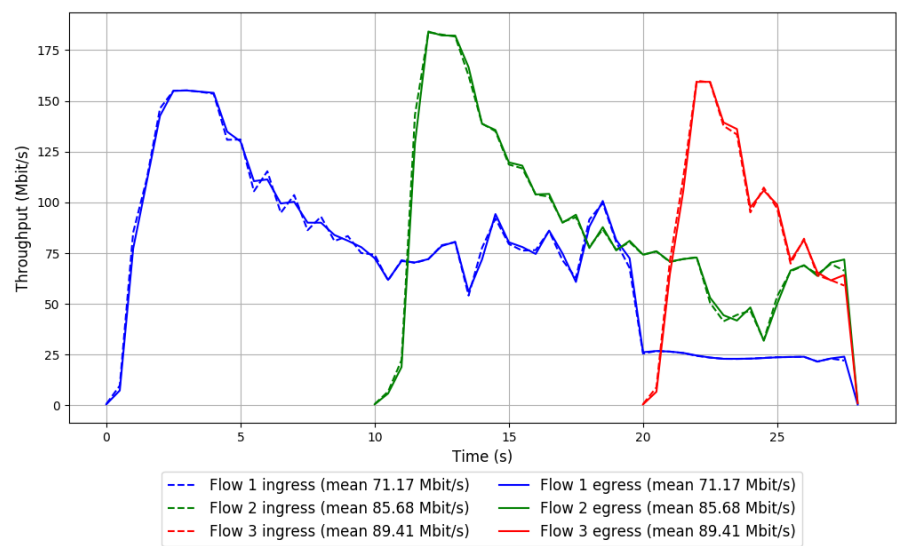
-- Flow 3:

Average throughput: 89.41 Mbit/s

95th percentile per-packet one-way delay: 50.158 ms

Loss rate: 0.00%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2017-10-12 12:51:01

End at: 2017-10-12 12:51:31

Below is generated by plot.py at 2017-10-12 17:09:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 139.46 Mbit/s

95th percentile per-packet one-way delay: 50.534 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 73.23 Mbit/s

95th percentile per-packet one-way delay: 50.514 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 66.45 Mbit/s

95th percentile per-packet one-way delay: 50.551 ms

Loss rate: 0.00%

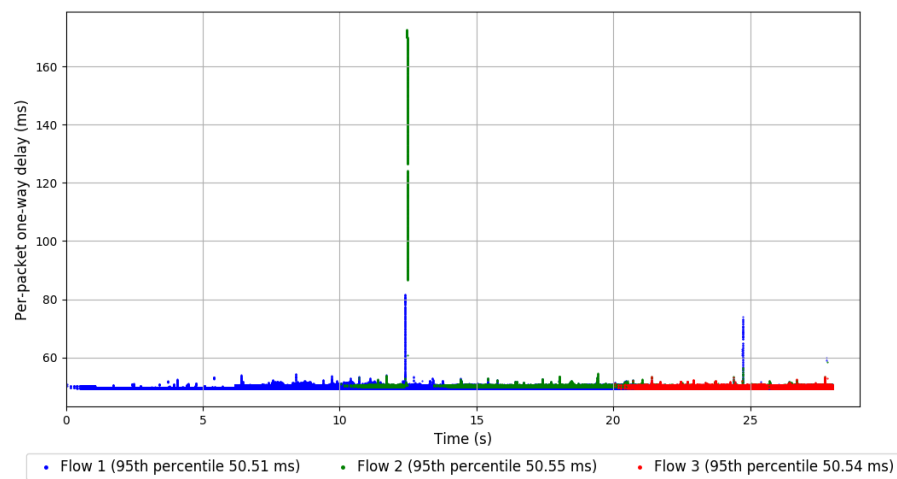
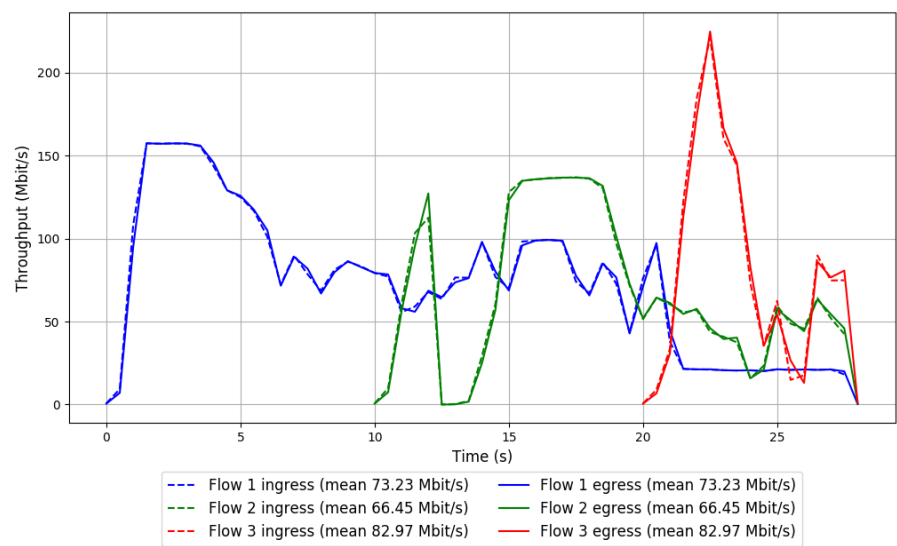
-- Flow 3:

Average throughput: 82.97 Mbit/s

95th percentile per-packet one-way delay: 50.543 ms

Loss rate: 0.00%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2017-10-12 13:03:29

End at: 2017-10-12 13:03:59

Below is generated by plot.py at 2017-10-12 17:09:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 159.09 Mbit/s

95th percentile per-packet one-way delay: 50.599 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 88.86 Mbit/s

95th percentile per-packet one-way delay: 50.562 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 70.71 Mbit/s

95th percentile per-packet one-way delay: 50.654 ms

Loss rate: 0.00%

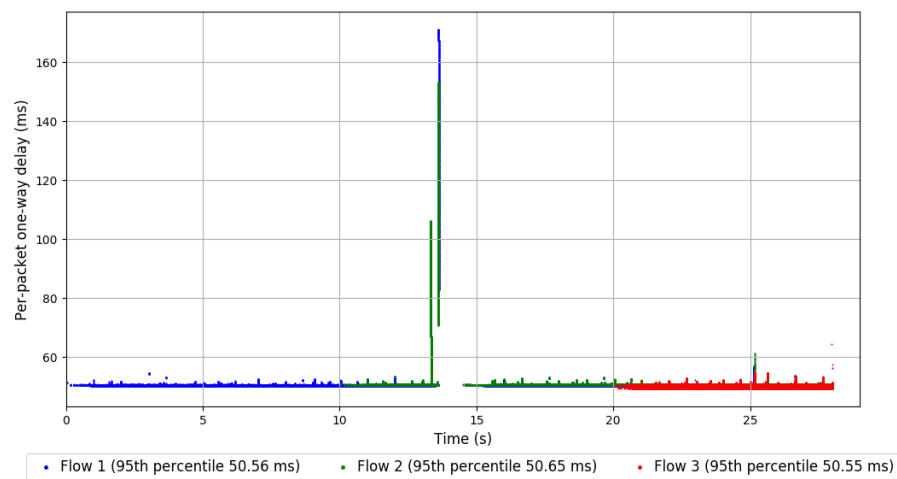
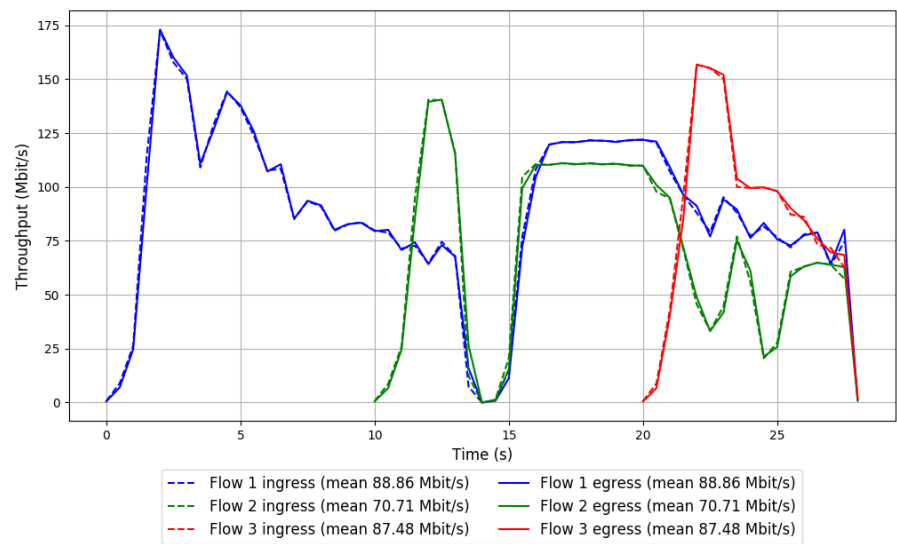
-- Flow 3:

Average throughput: 87.48 Mbit/s

95th percentile per-packet one-way delay: 50.549 ms

Loss rate: 0.00%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2017-10-12 13:15:55

End at: 2017-10-12 13:16:25

Below is generated by plot.py at 2017-10-12 17:12:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 167.73 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 85.94 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 82.45 Mbit/s

95th percentile per-packet one-way delay: 50.562 ms

Loss rate: 0.00%

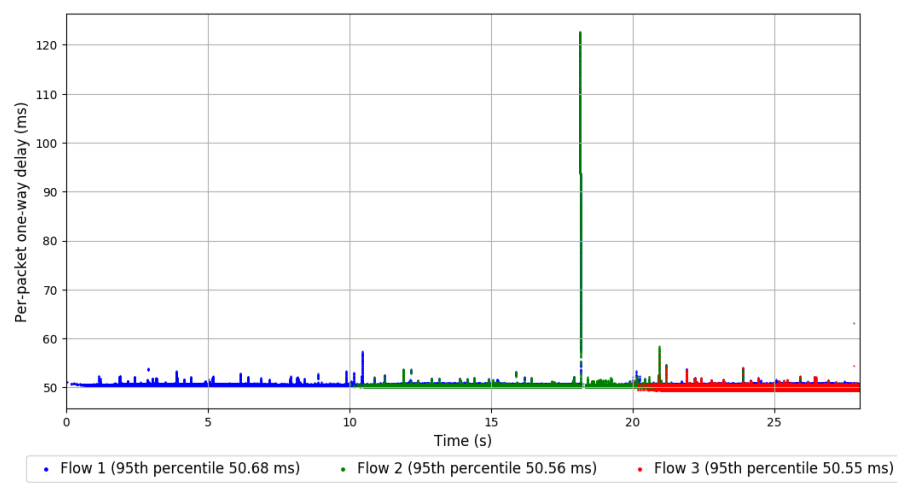
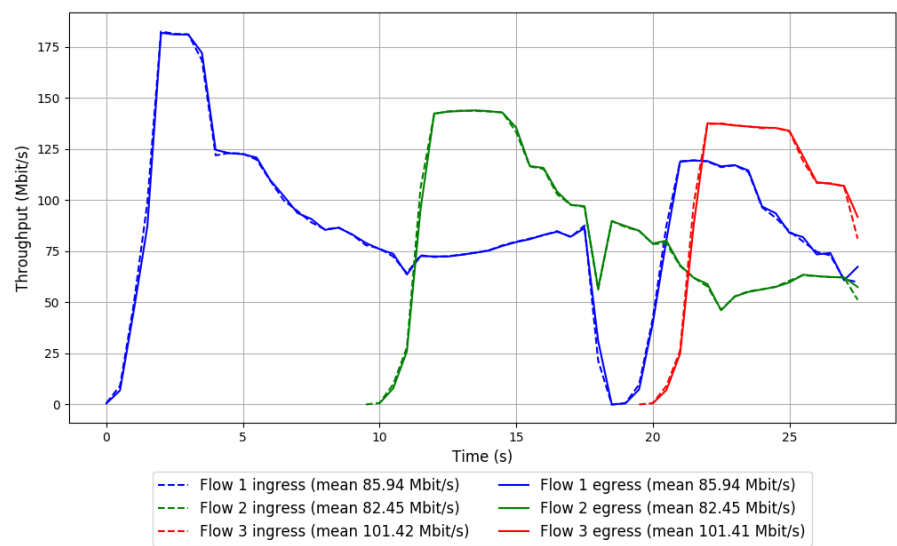
-- Flow 3:

Average throughput: 101.41 Mbit/s

95th percentile per-packet one-way delay: 50.552 ms

Loss rate: 0.00%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2017-10-12 13:28:22

End at: 2017-10-12 13:28:52

Below is generated by plot.py at 2017-10-12 17:12:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 160.96 Mbit/s

95th percentile per-packet one-way delay: 50.742 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 88.45 Mbit/s

95th percentile per-packet one-way delay: 50.808 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 77.14 Mbit/s

95th percentile per-packet one-way delay: 50.534 ms

Loss rate: 0.00%

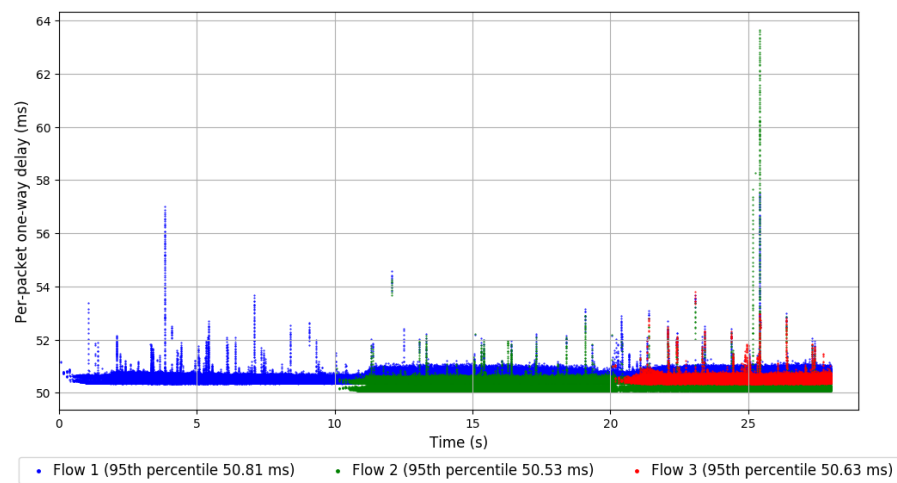
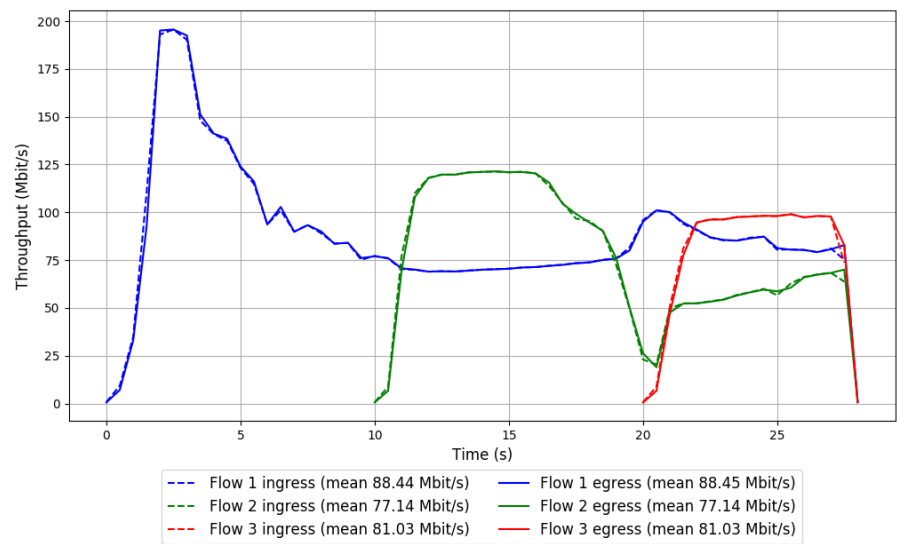
-- Flow 3:

Average throughput: 81.03 Mbit/s

95th percentile per-packet one-way delay: 50.633 ms

Loss rate: 0.00%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2017-10-12 13:40:52

End at: 2017-10-12 13:41:22

Below is generated by plot.py at 2017-10-12 17:12:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 158.53 Mbit/s

95th percentile per-packet one-way delay: 50.974 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 78.26 Mbit/s

95th percentile per-packet one-way delay: 50.677 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 82.83 Mbit/s

95th percentile per-packet one-way delay: 51.038 ms

Loss rate: 0.00%

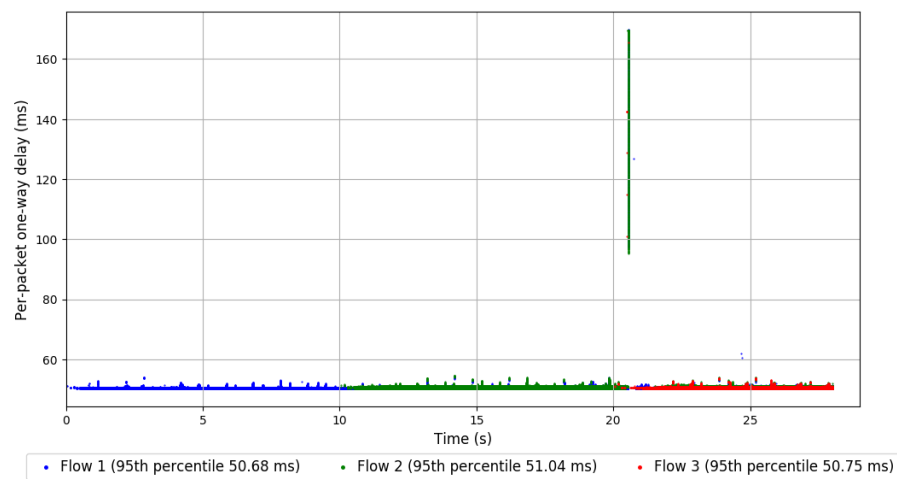
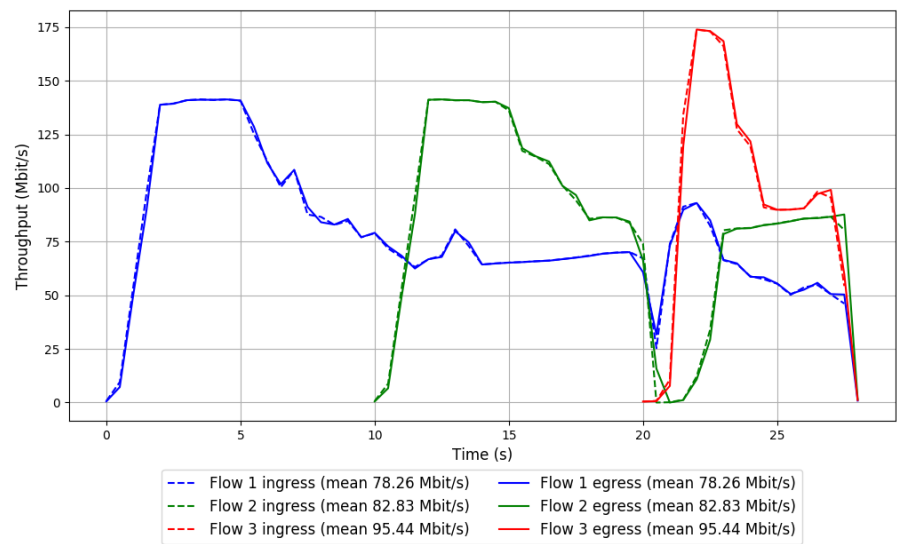
-- Flow 3:

Average throughput: 95.44 Mbit/s

95th percentile per-packet one-way delay: 50.747 ms

Loss rate: 0.00%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2017-10-12 13:53:26

End at: 2017-10-12 13:53:56

Below is generated by plot.py at 2017-10-12 17:12:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 153.80 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 86.60 Mbit/s

95th percentile per-packet one-way delay: 50.528 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 94.45 Mbit/s

95th percentile per-packet one-way delay: 50.573 ms

Loss rate: 0.00%

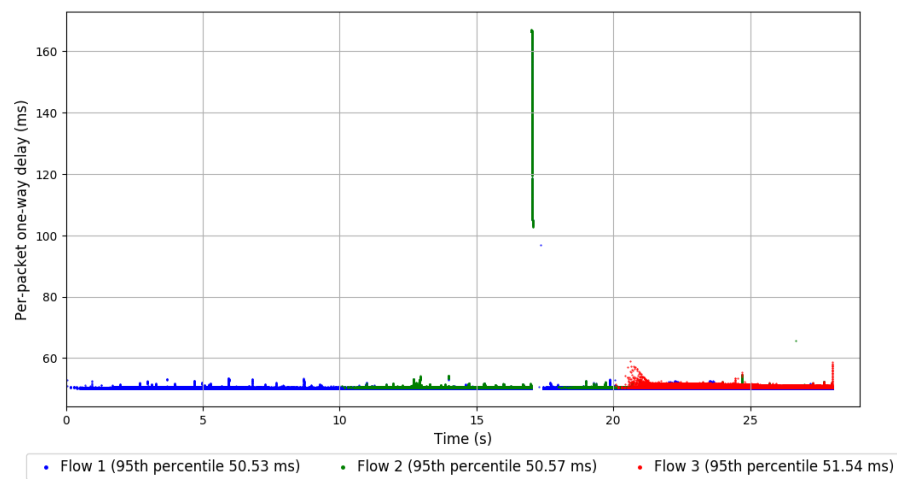
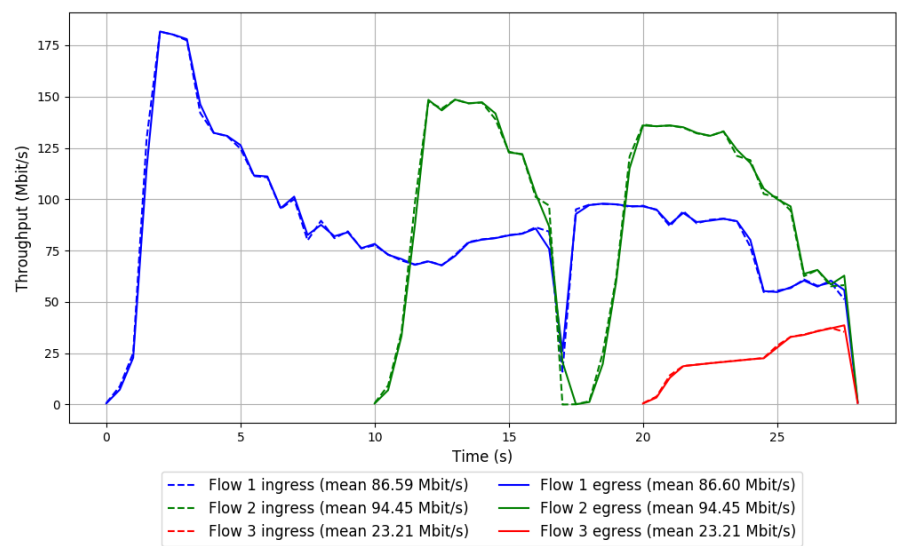
-- Flow 3:

Average throughput: 23.21 Mbit/s

95th percentile per-packet one-way delay: 51.544 ms

Loss rate: 0.00%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2017-10-12 14:06:01

End at: 2017-10-12 14:06:31

Below is generated by plot.py at 2017-10-12 17:12:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 154.49 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 91.28 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 59.67 Mbit/s

95th percentile per-packet one-way delay: 51.944 ms

Loss rate: 0.00%

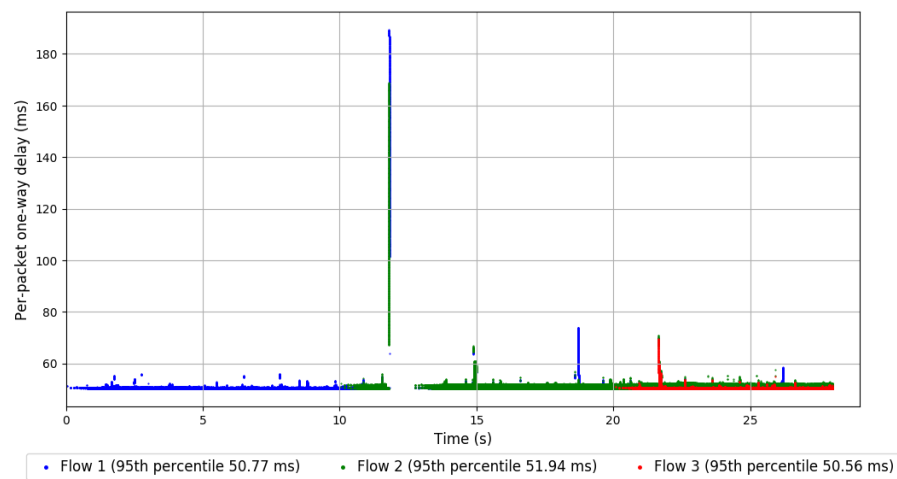
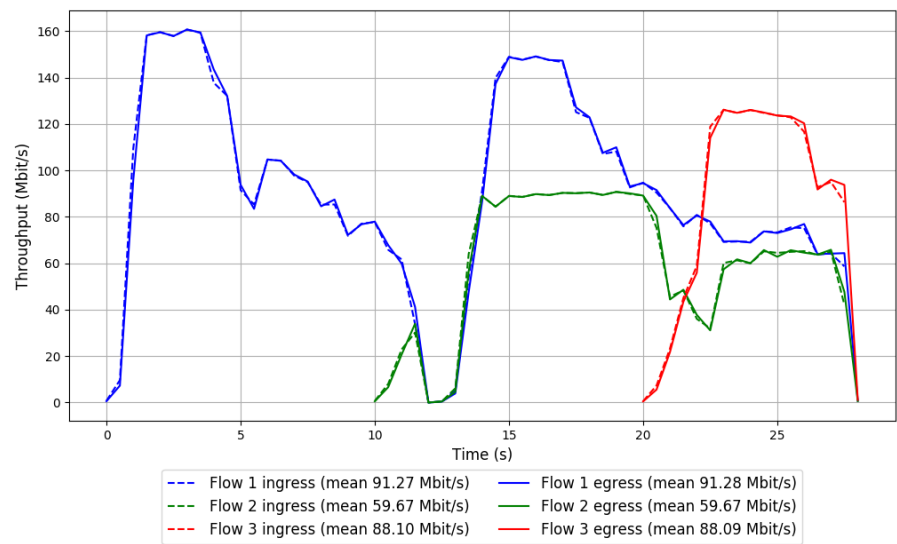
-- Flow 3:

Average throughput: 88.09 Mbit/s

95th percentile per-packet one-way delay: 50.561 ms

Loss rate: 0.00%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2017-10-12 14:18:44

End at: 2017-10-12 14:19:14

Below is generated by plot.py at 2017-10-12 17:13:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 168.53 Mbit/s

95th percentile per-packet one-way delay: 51.635 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 87.70 Mbit/s

95th percentile per-packet one-way delay: 51.677 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 88.08 Mbit/s

95th percentile per-packet one-way delay: 50.534 ms

Loss rate: 0.00%

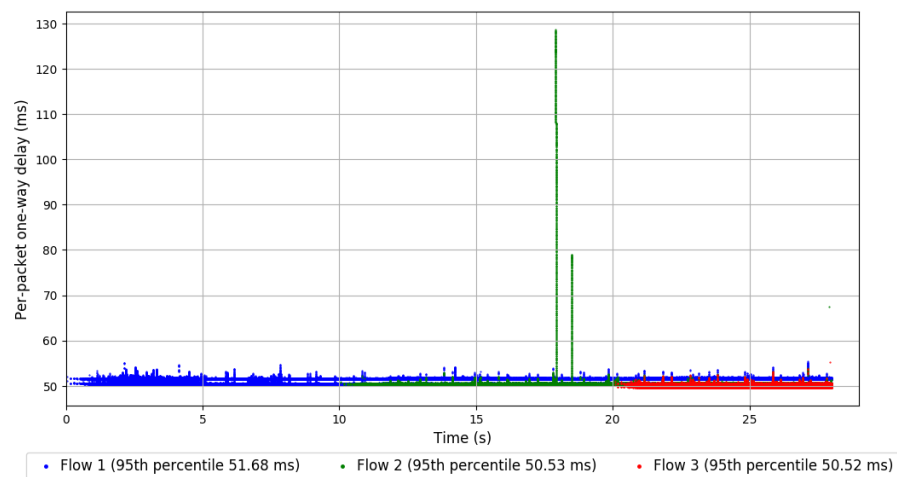
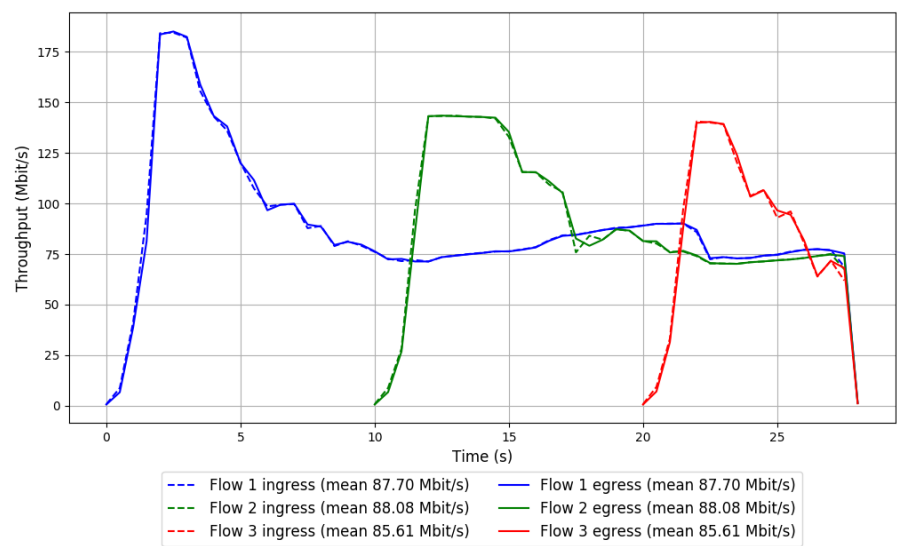
-- Flow 3:

Average throughput: 85.61 Mbit/s

95th percentile per-packet one-way delay: 50.522 ms

Loss rate: 0.00%

Run 10: Report of Copa — Data Link

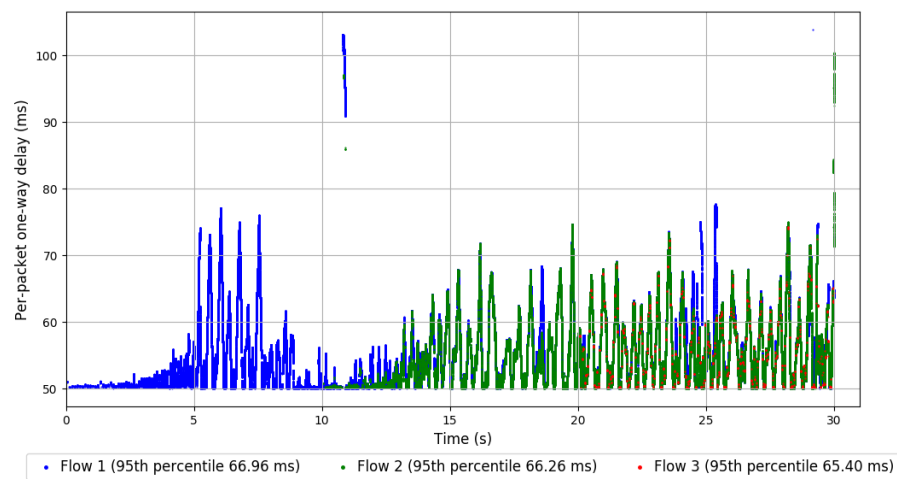
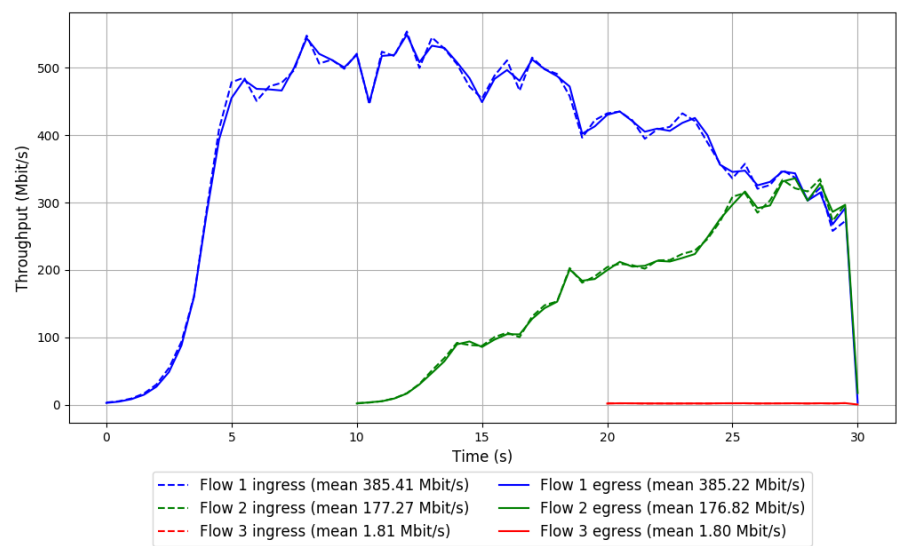


```
Run 1: Statistics of CalibratedKoho

Start at: 2017-10-12 12:30:04
End at: 2017-10-12 12:30:34

# Below is generated by plot.py at 2017-10-12 17:17:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 503.56 Mbit/s
95th percentile per-packet one-way delay: 66.783 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 385.22 Mbit/s
95th percentile per-packet one-way delay: 66.956 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 176.82 Mbit/s
95th percentile per-packet one-way delay: 66.263 ms
Loss rate: 0.25%
-- Flow 3:
Average throughput: 1.80 Mbit/s
95th percentile per-packet one-way delay: 65.401 ms
Loss rate: 0.53%
```


Run 1: Report of CalibratedKoho — Data Link



Run 2: Statistics of CalibratedKoho

Start at: 2017-10-12 12:42:31

End at: 2017-10-12 12:43:01

Below is generated by plot.py at 2017-10-12 17:19:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 508.76 Mbit/s

95th percentile per-packet one-way delay: 68.881 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 390.00 Mbit/s

95th percentile per-packet one-way delay: 68.892 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 176.37 Mbit/s

95th percentile per-packet one-way delay: 68.876 ms

Loss rate: 0.30%

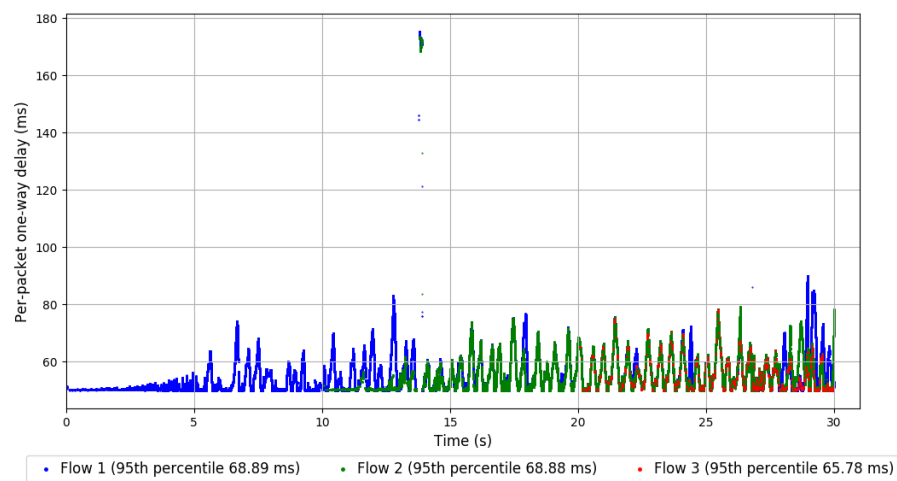
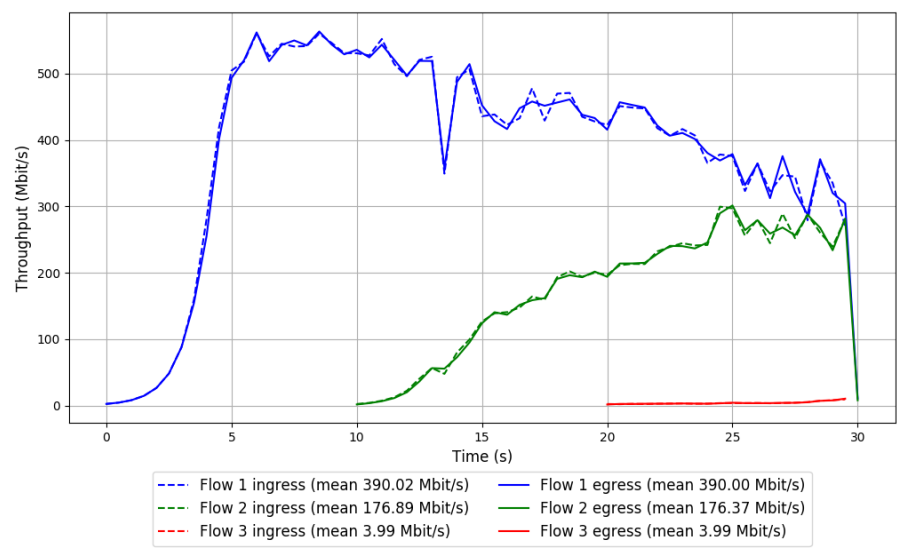
-- Flow 3:

Average throughput: 3.99 Mbit/s

95th percentile per-packet one-way delay: 65.785 ms

Loss rate: 0.33%

Run 2: Report of CalibratedKoho — Data Link



Run 3: Statistics of CalibratedKoho

Start at: 2017-10-12 12:54:59

End at: 2017-10-12 12:55:29

Below is generated by plot.py at 2017-10-12 17:21:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 506.23 Mbit/s

95th percentile per-packet one-way delay: 70.189 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 340.78 Mbit/s

95th percentile per-packet one-way delay: 69.632 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 226.24 Mbit/s

95th percentile per-packet one-way delay: 71.462 ms

Loss rate: 0.01%

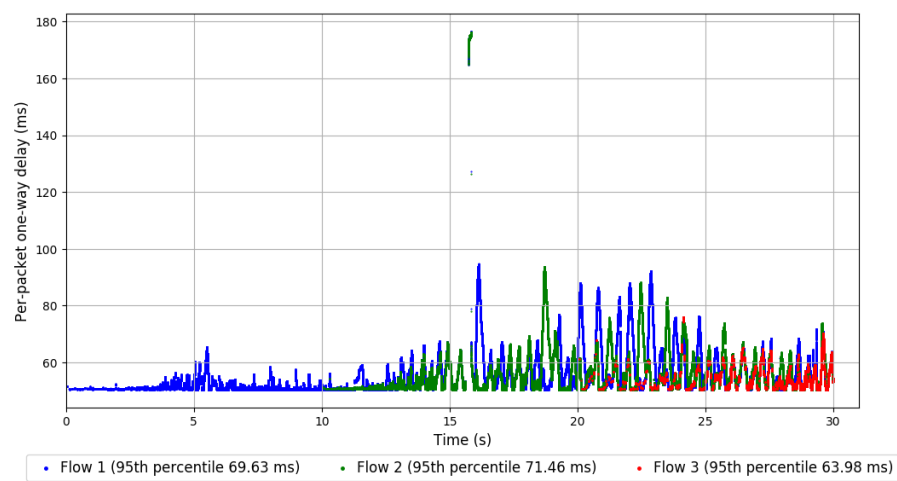
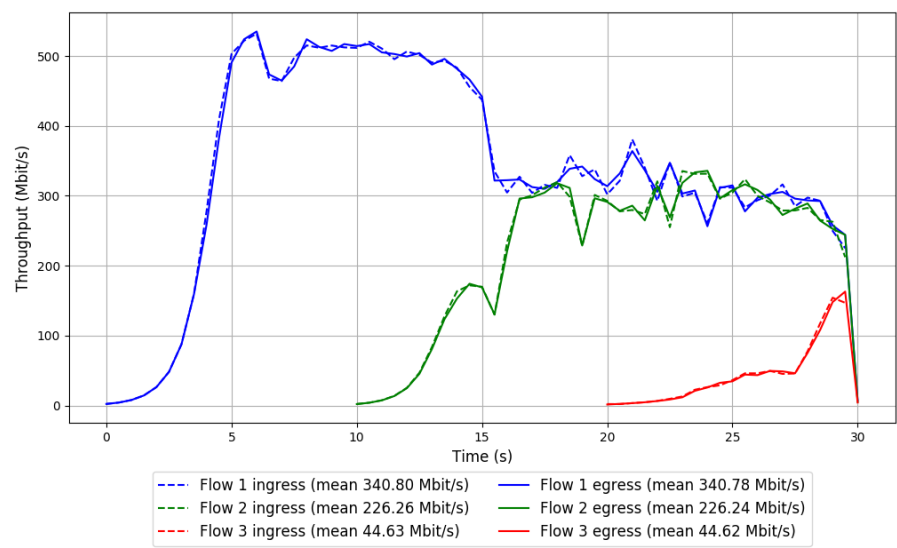
-- Flow 3:

Average throughput: 44.62 Mbit/s

95th percentile per-packet one-way delay: 63.978 ms

Loss rate: 0.11%

Run 3: Report of CalibratedKoho — Data Link



Run 4: Statistics of CalibratedKoho

Start at: 2017-10-12 13:07:29

End at: 2017-10-12 13:07:59

Below is generated by plot.py at 2017-10-12 17:21:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 495.37 Mbit/s

95th percentile per-packet one-way delay: 66.037 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 337.29 Mbit/s

95th percentile per-packet one-way delay: 65.361 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 236.30 Mbit/s

95th percentile per-packet one-way delay: 66.886 ms

Loss rate: 0.07%

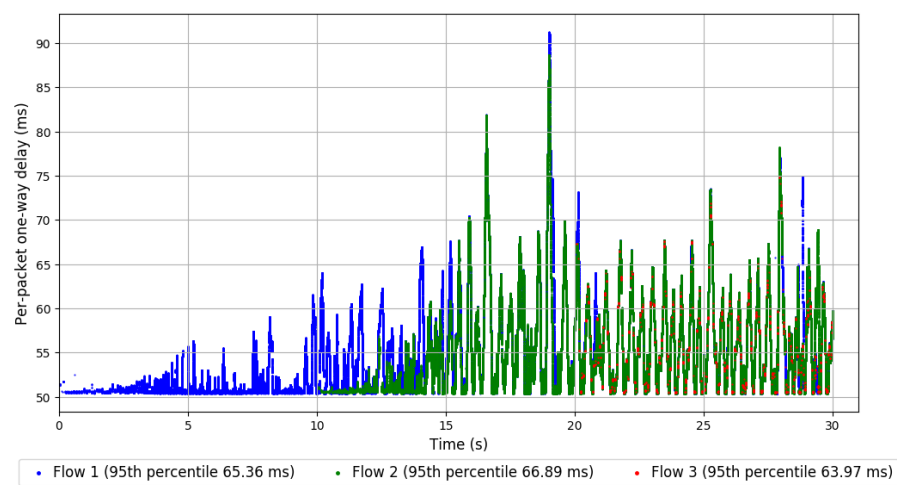
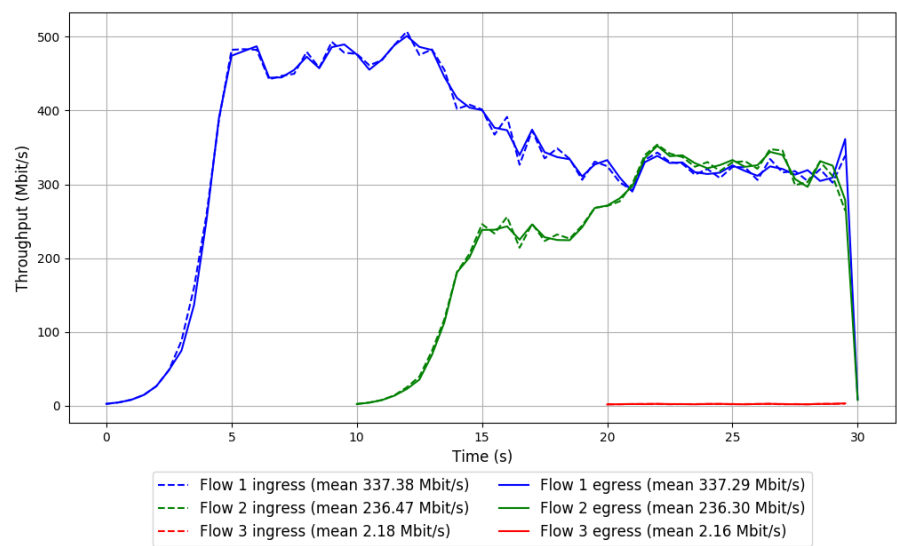
-- Flow 3:

Average throughput: 2.16 Mbit/s

95th percentile per-packet one-way delay: 63.966 ms

Loss rate: 0.72%

Run 4: Report of CalibratedKoho — Data Link



Run 5: Statistics of CalibratedKoho

Start at: 2017-10-12 13:19:55

End at: 2017-10-12 13:20:25

Below is generated by plot.py at 2017-10-12 17:21:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 491.58 Mbit/s

95th percentile per-packet one-way delay: 70.080 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 337.68 Mbit/s

95th percentile per-packet one-way delay: 69.878 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 226.80 Mbit/s

95th percentile per-packet one-way delay: 70.462 ms

Loss rate: 0.04%

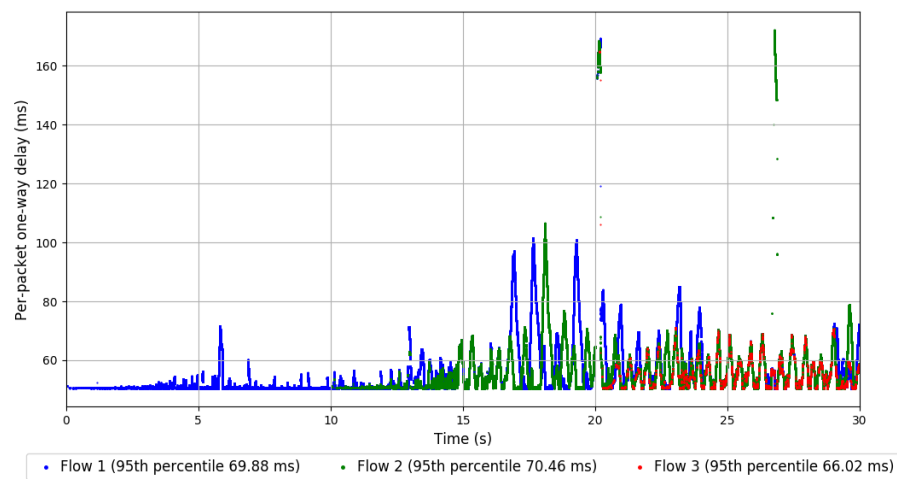
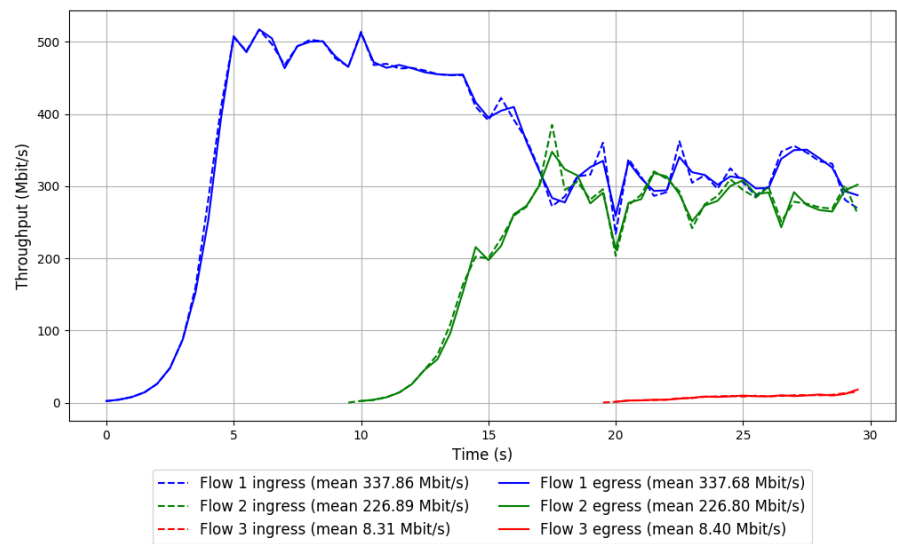
-- Flow 3:

Average throughput: 8.40 Mbit/s

95th percentile per-packet one-way delay: 66.022 ms

Loss rate: 0.09%

Run 5: Report of CalibratedKoho — Data Link



Run 6: Statistics of CalibratedKoho

Start at: 2017-10-12 13:32:25

End at: 2017-10-12 13:32:55

Below is generated by plot.py at 2017-10-12 17:21:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 496.98 Mbit/s

95th percentile per-packet one-way delay: 67.041 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 333.51 Mbit/s

95th percentile per-packet one-way delay: 65.699 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 240.36 Mbit/s

95th percentile per-packet one-way delay: 70.221 ms

Loss rate: 0.00%

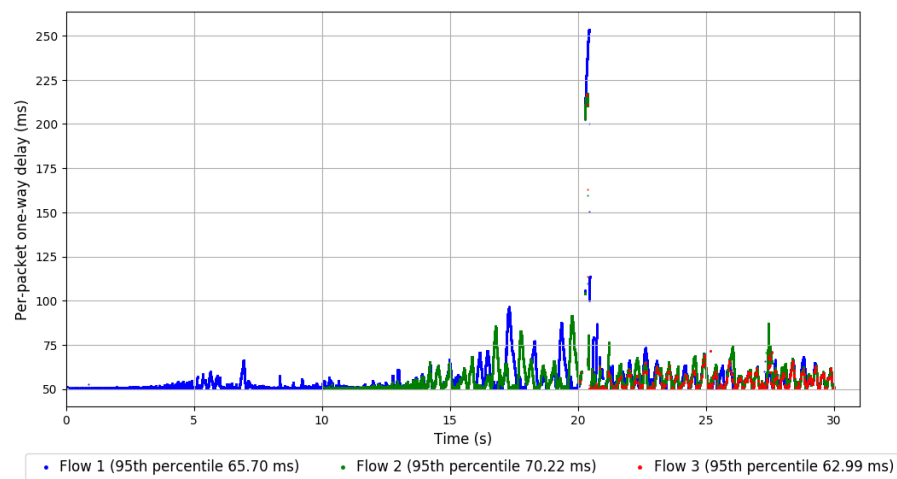
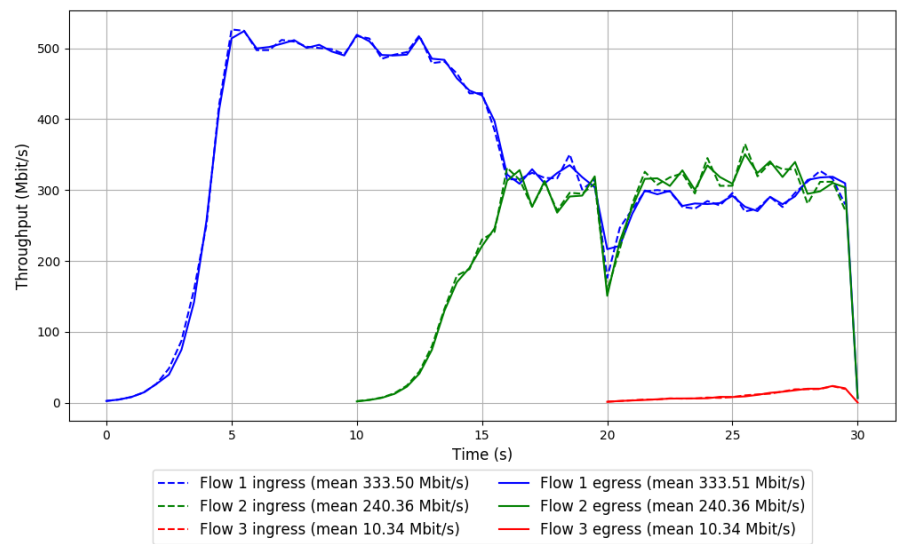
-- Flow 3:

Average throughput: 10.34 Mbit/s

95th percentile per-packet one-way delay: 62.988 ms

Loss rate: 0.07%

Run 6: Report of CalibratedKoho — Data Link



Run 7: Statistics of CalibratedKoho

Start at: 2017-10-12 13:44:54

End at: 2017-10-12 13:45:24

Below is generated by plot.py at 2017-10-12 17:22:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 496.72 Mbit/s

95th percentile per-packet one-way delay: 67.829 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 358.63 Mbit/s

95th percentile per-packet one-way delay: 66.336 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 205.14 Mbit/s

95th percentile per-packet one-way delay: 70.380 ms

Loss rate: 0.08%

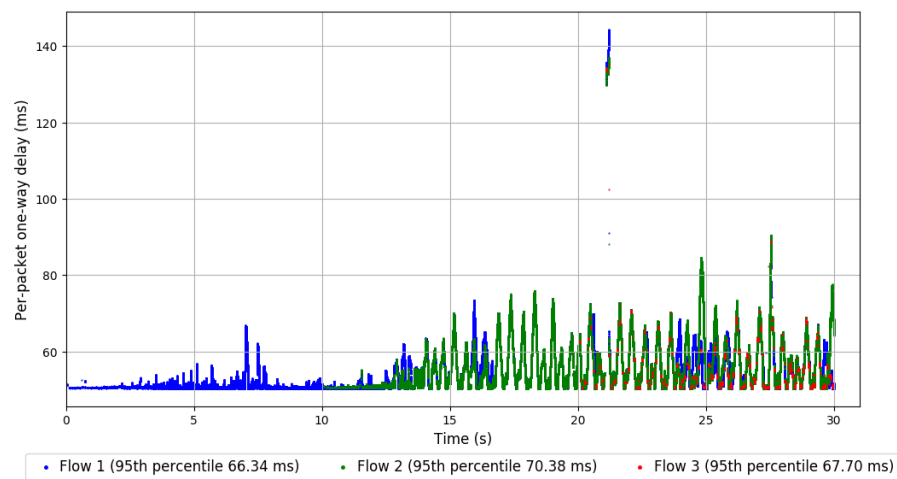
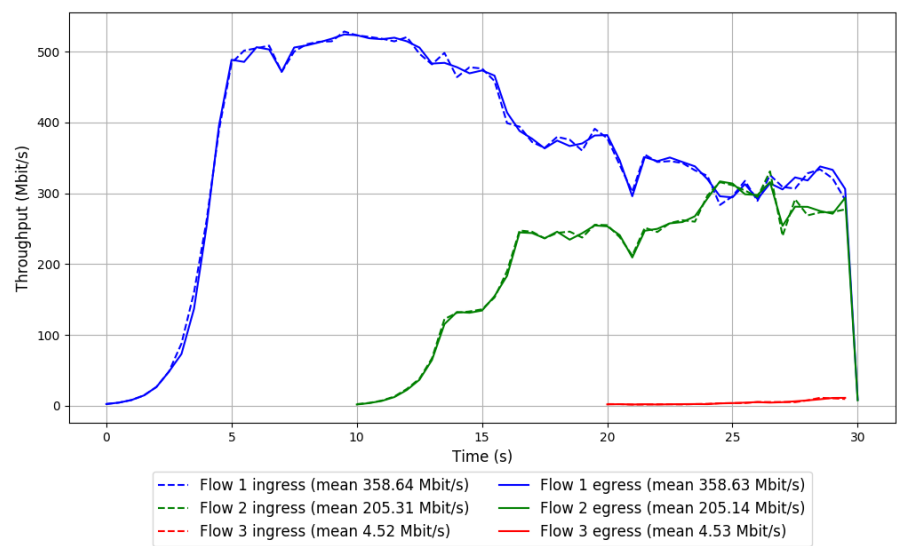
-- Flow 3:

Average throughput: 4.53 Mbit/s

95th percentile per-packet one-way delay: 67.705 ms

Loss rate: 0.00%

Run 7: Report of CalibratedKoho — Data Link



Run 8: Statistics of CalibratedKoho

Start at: 2017-10-12 13:57:31

End at: 2017-10-12 13:58:01

Below is generated by plot.py at 2017-10-12 17:22:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 489.42 Mbit/s

95th percentile per-packet one-way delay: 69.857 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 322.00 Mbit/s

95th percentile per-packet one-way delay: 69.066 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 242.83 Mbit/s

95th percentile per-packet one-way delay: 71.981 ms

Loss rate: 0.04%

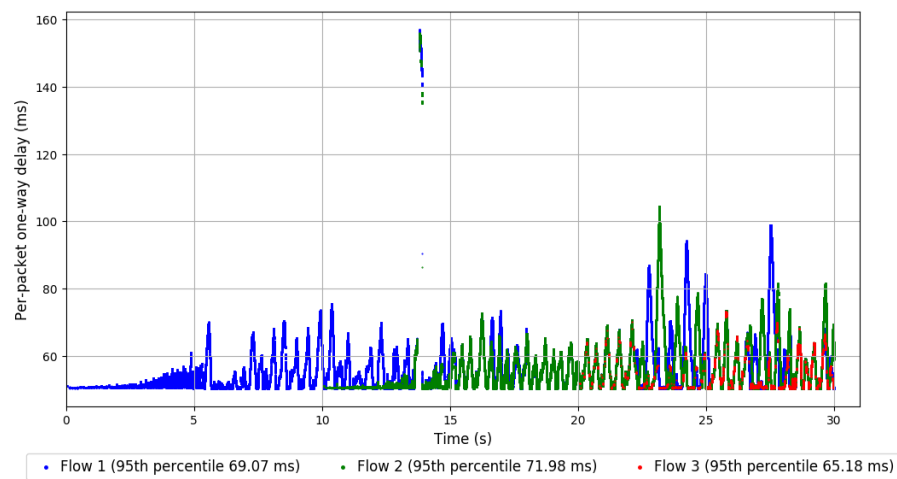
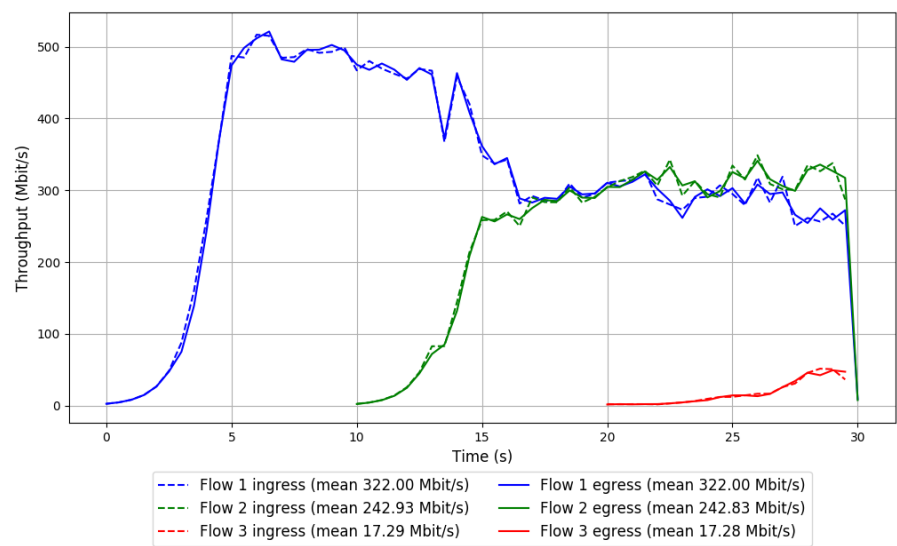
-- Flow 3:

Average throughput: 17.28 Mbit/s

95th percentile per-packet one-way delay: 65.183 ms

Loss rate: 0.08%

Run 8: Report of CalibratedKoho — Data Link



Run 9: Statistics of CalibratedKoho

Start at: 2017-10-12 14:10:08

End at: 2017-10-12 14:10:38

Below is generated by plot.py at 2017-10-12 17:27:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 489.52 Mbit/s

95th percentile per-packet one-way delay: 69.630 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 343.60 Mbit/s

95th percentile per-packet one-way delay: 67.784 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 210.73 Mbit/s

95th percentile per-packet one-way delay: 75.843 ms

Loss rate: 0.00%

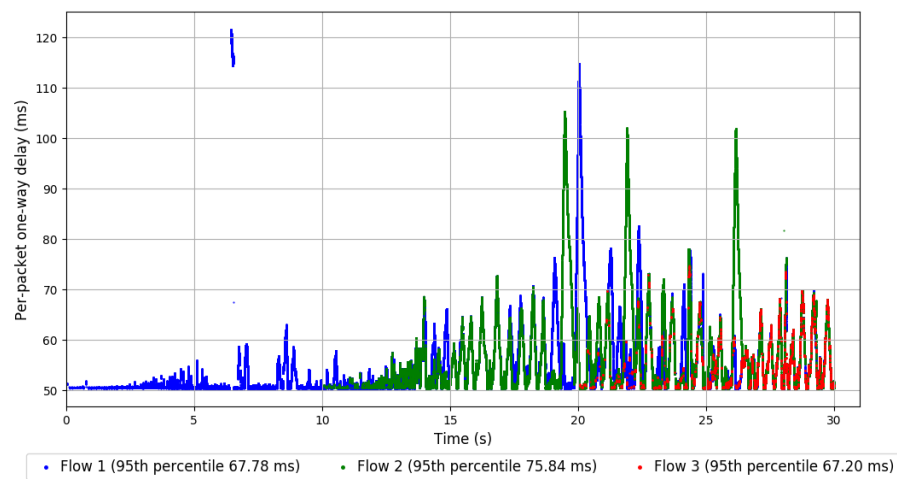
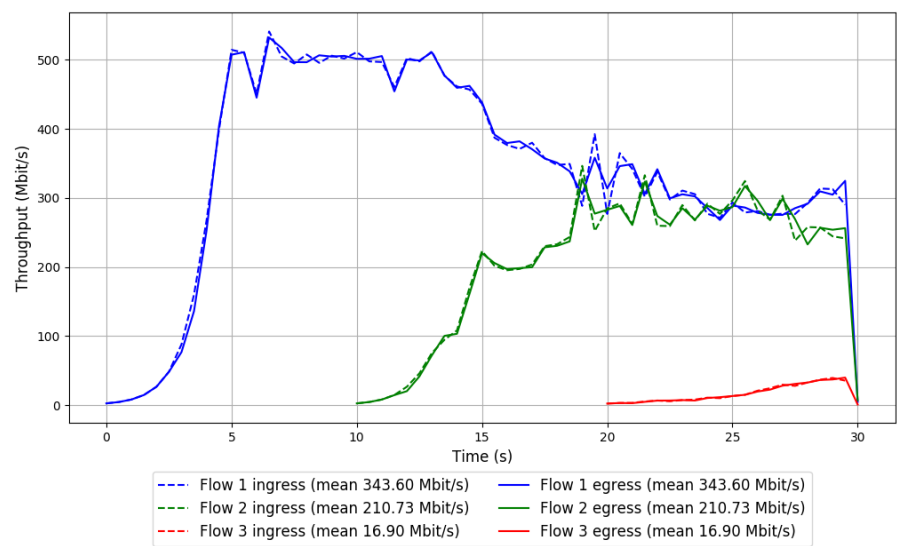
-- Flow 3:

Average throughput: 16.90 Mbit/s

95th percentile per-packet one-way delay: 67.199 ms

Loss rate: 0.01%

Run 9: Report of CalibratedKoho — Data Link



Run 10: Statistics of CalibratedKoho

Start at: 2017-10-12 14:22:47

End at: 2017-10-12 14:23:17

Below is generated by plot.py at 2017-10-12 17:28:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 484.78 Mbit/s

95th percentile per-packet one-way delay: 66.342 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 331.52 Mbit/s

95th percentile per-packet one-way delay: 65.234 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 229.32 Mbit/s

95th percentile per-packet one-way delay: 68.183 ms

Loss rate: 0.02%

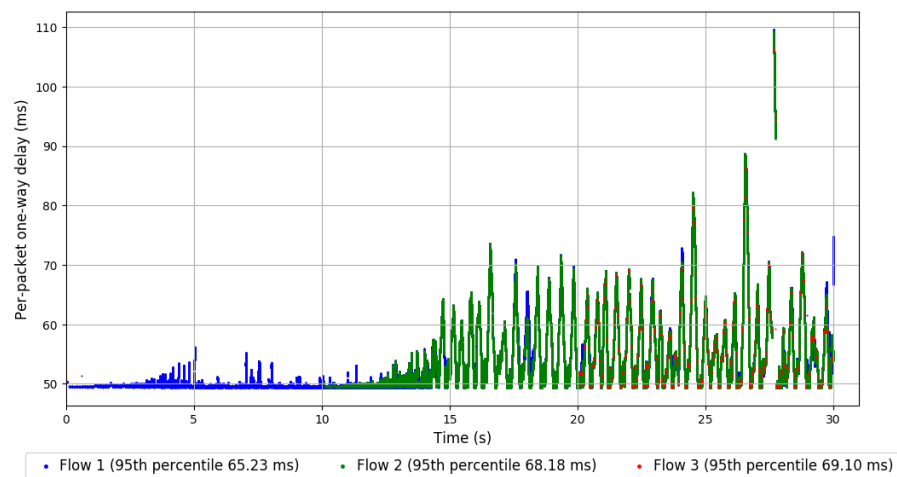
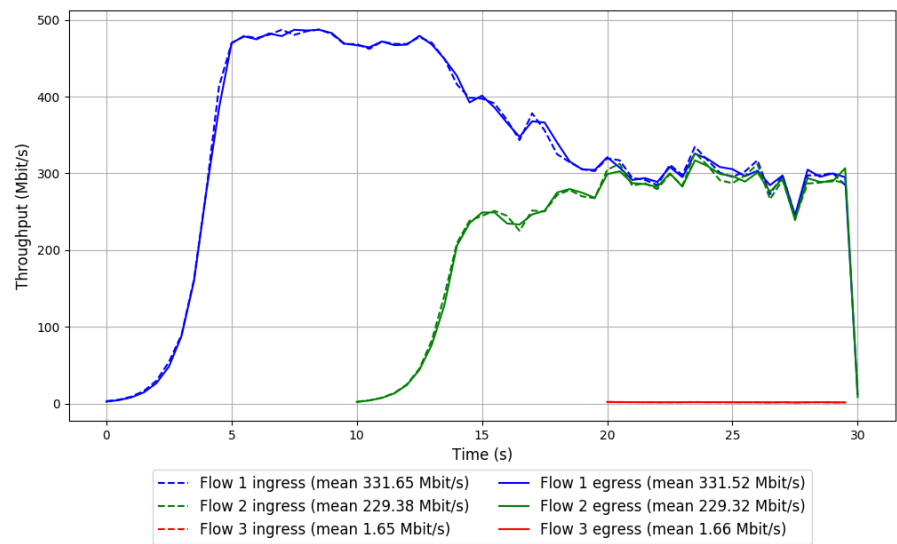
-- Flow 3:

Average throughput: 1.66 Mbit/s

95th percentile per-packet one-way delay: 69.098 ms

Loss rate: 0.29%

Run 10: Report of CalibratedKoho — Data Link

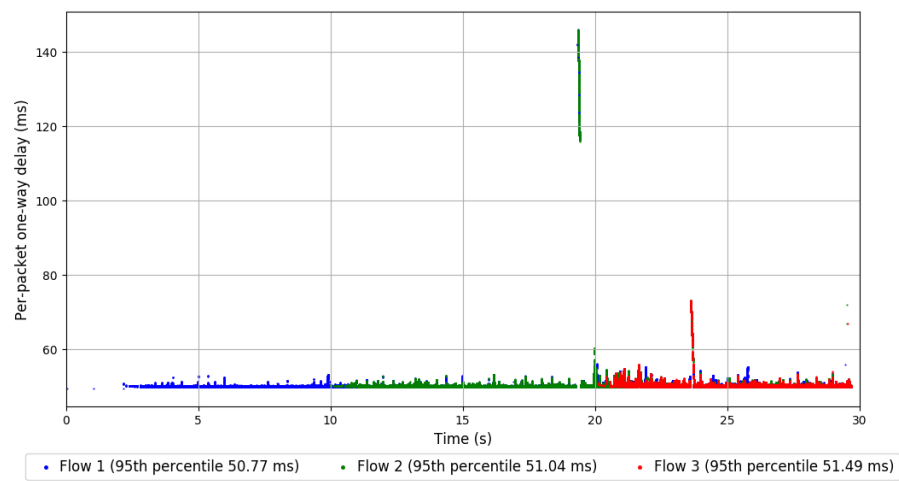
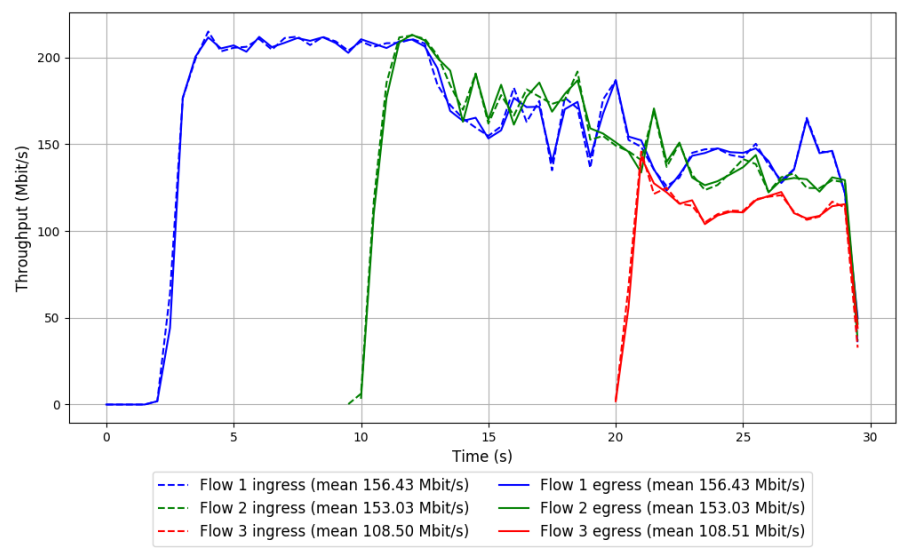


```
Run 1: Statistics of Indigo

Start at: 2017-10-12 12:28:25
End at: 2017-10-12 12:28:55

# Below is generated by plot.py at 2017-10-12 17:28:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 293.04 Mbit/s
95th percentile per-packet one-way delay: 50.953 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 156.43 Mbit/s
95th percentile per-packet one-way delay: 50.769 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 153.03 Mbit/s
95th percentile per-packet one-way delay: 51.039 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 108.51 Mbit/s
95th percentile per-packet one-way delay: 51.492 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo — Data Link

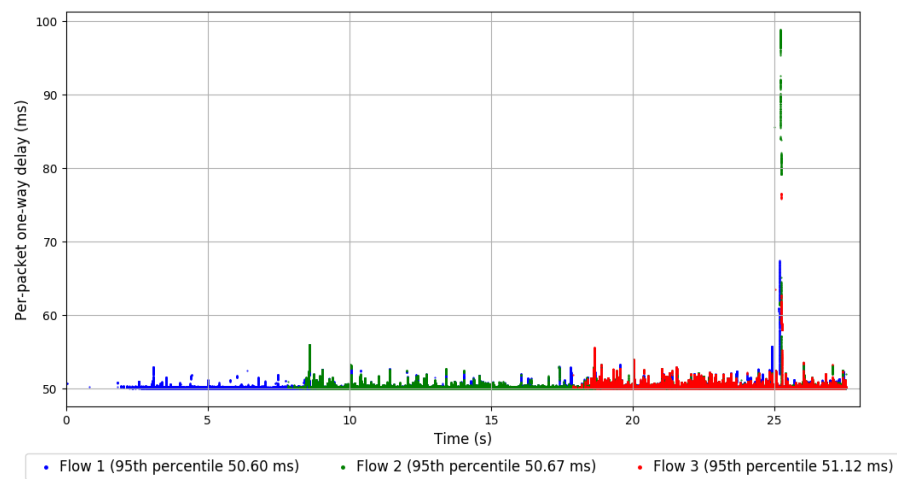
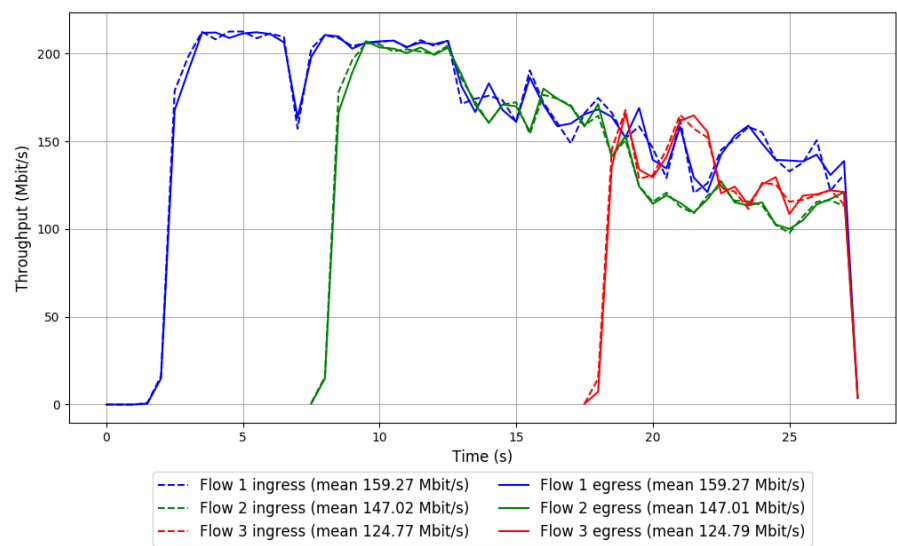


```
Run 2: Statistics of Indigo

Start at: 2017-10-12 12:40:52
End at: 2017-10-12 12:41:22

# Below is generated by plot.py at 2017-10-12 17:28:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 308.39 Mbit/s
95th percentile per-packet one-way delay: 50.715 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 159.27 Mbit/s
95th percentile per-packet one-way delay: 50.604 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 147.01 Mbit/s
95th percentile per-packet one-way delay: 50.675 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 124.79 Mbit/s
95th percentile per-packet one-way delay: 51.120 ms
Loss rate: 0.00%
```

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2017-10-12 12:53:19

End at: 2017-10-12 12:53:49

Below is generated by plot.py at 2017-10-12 17:28:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 313.30 Mbit/s

95th percentile per-packet one-way delay: 51.061 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 174.06 Mbit/s

95th percentile per-packet one-way delay: 50.841 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 158.48 Mbit/s

95th percentile per-packet one-way delay: 51.414 ms

Loss rate: 0.00%

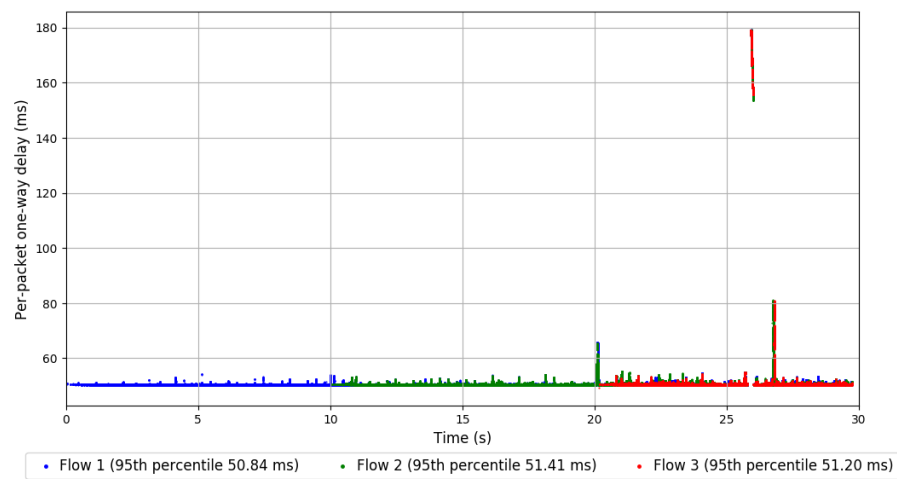
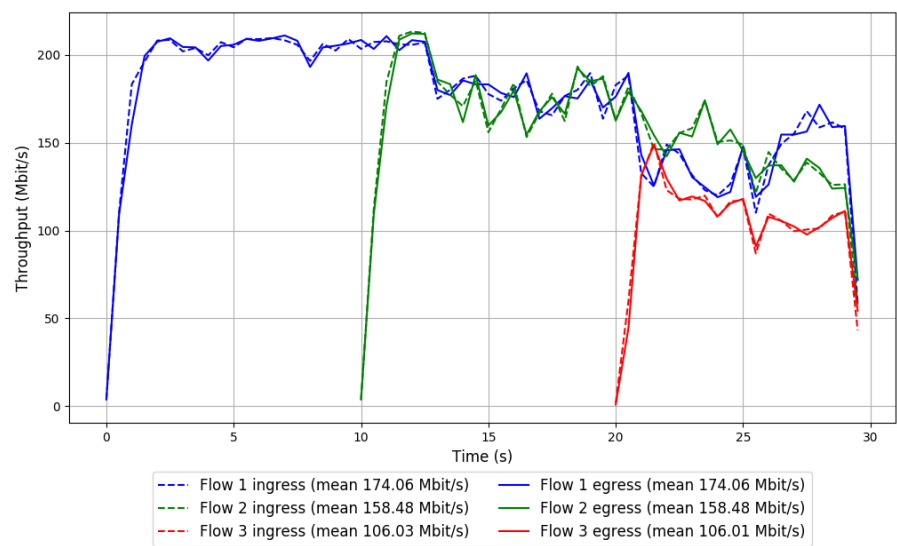
-- Flow 3:

Average throughput: 106.01 Mbit/s

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

Loss rate: 0.00%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2017-10-12 13:05:49

End at: 2017-10-12 13:06:19

Below is generated by plot.py at 2017-10-12 17:28:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 301.01 Mbit/s

95th percentile per-packet one-way delay: 50.935 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 166.99 Mbit/s

95th percentile per-packet one-way delay: 50.755 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 146.97 Mbit/s

95th percentile per-packet one-way delay: 51.205 ms

Loss rate: 0.00%

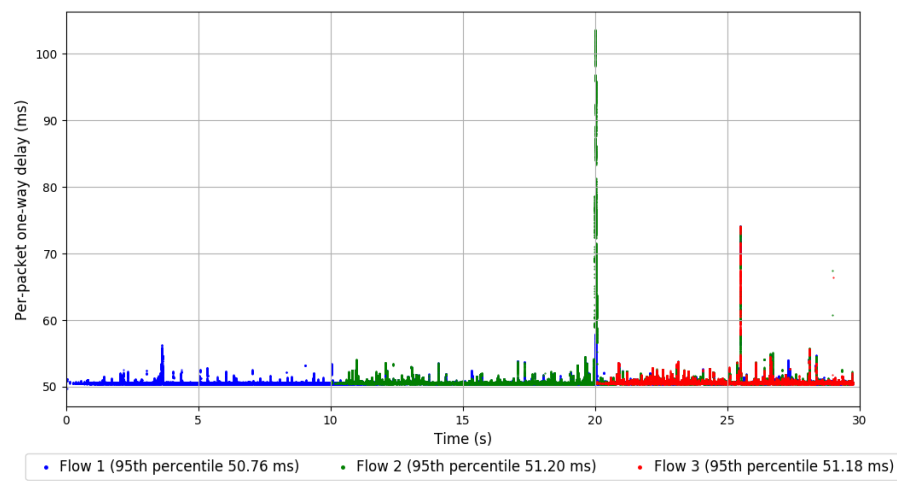
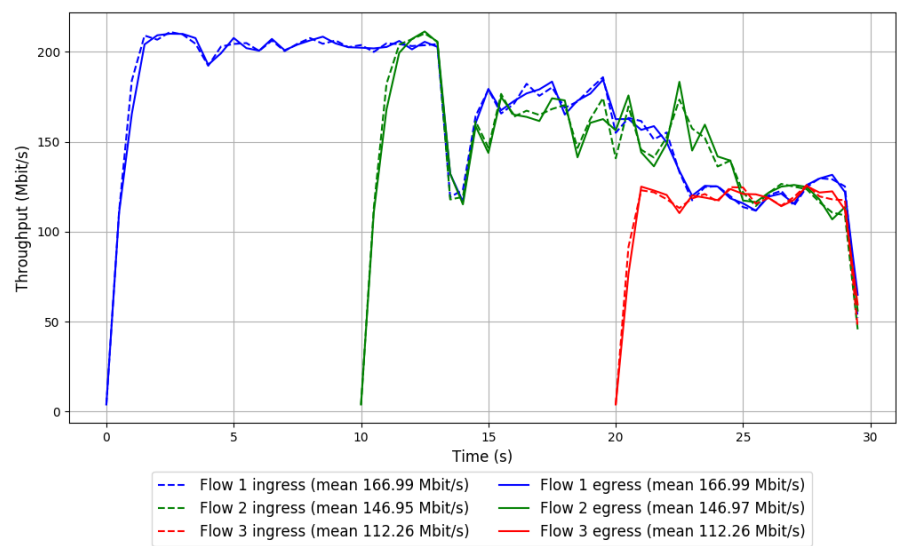
-- Flow 3:

Average throughput: 112.26 Mbit/s

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

Loss rate: 0.00%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2017-10-12 13:18:13

End at: 2017-10-12 13:18:43

Below is generated by plot.py at 2017-10-12 17:28:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 329.67 Mbit/s

95th percentile per-packet one-way delay: 51.002 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 181.26 Mbit/s

95th percentile per-packet one-way delay: 50.848 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 170.57 Mbit/s

95th percentile per-packet one-way delay: 51.130 ms

Loss rate: 0.00%

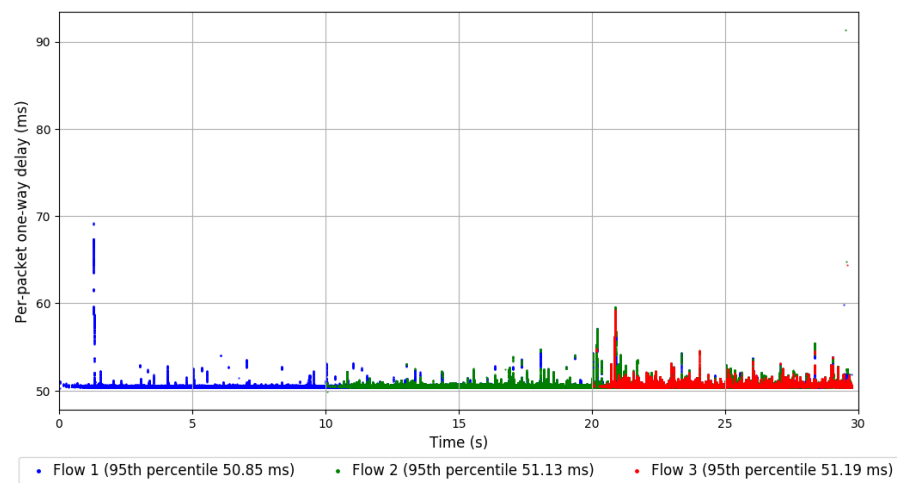
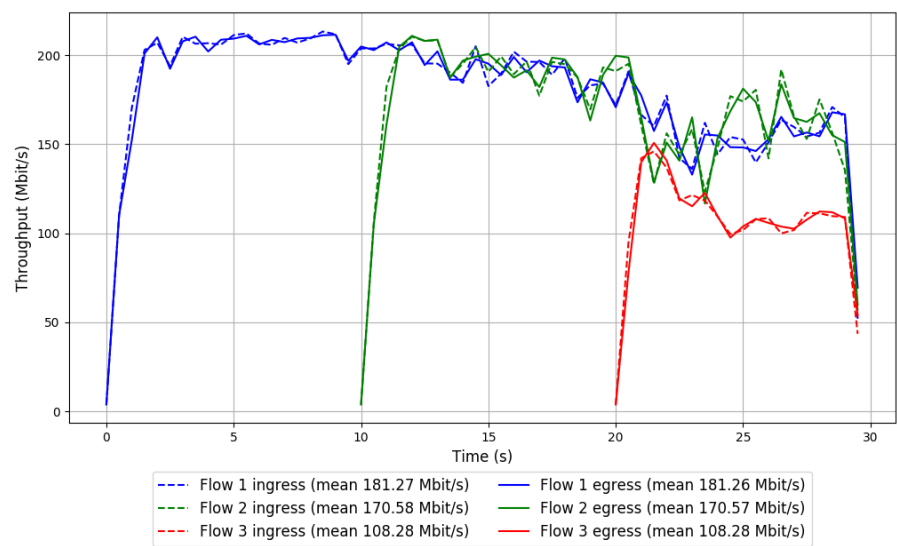
-- Flow 3:

Average throughput: 108.28 Mbit/s

95th percentile per-packet one-way delay: 51.191 ms

Loss rate: 0.00%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2017-10-12 13:30:45

End at: 2017-10-12 13:31:15

Below is generated by plot.py at 2017-10-12 17:28:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 290.50 Mbit/s

95th percentile per-packet one-way delay: 50.826 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 152.48 Mbit/s

95th percentile per-packet one-way delay: 50.721 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 135.79 Mbit/s

95th percentile per-packet one-way delay: 50.874 ms

Loss rate: 0.00%

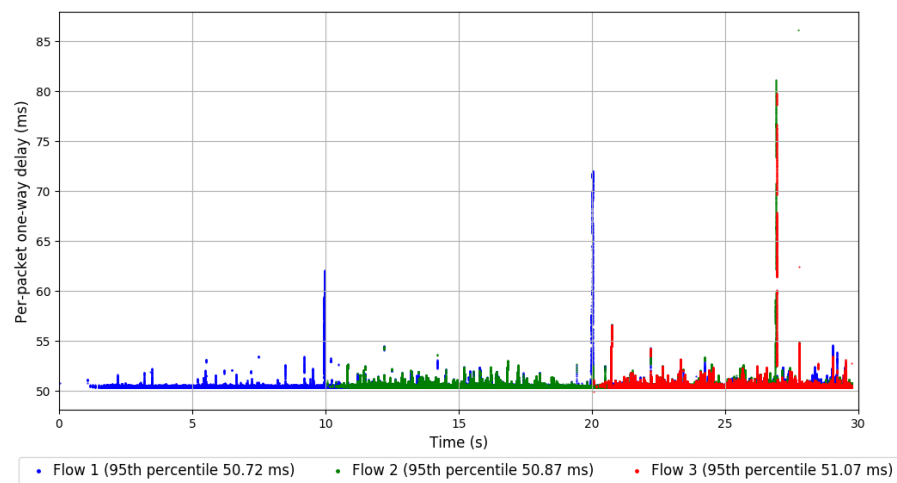
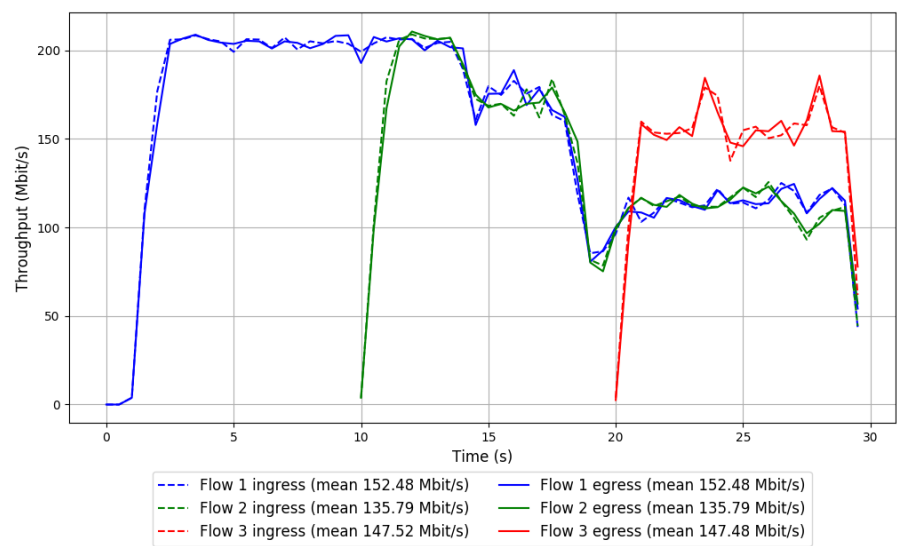
-- Flow 3:

Average throughput: 147.48 Mbit/s

95th percentile per-packet one-way delay: 51.066 ms

Loss rate: 0.00%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2017-10-12 13:43:13

End at: 2017-10-12 13:43:43

Below is generated by plot.py at 2017-10-12 17:29:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 312.67 Mbit/s

95th percentile per-packet one-way delay: 51.011 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 165.99 Mbit/s

95th percentile per-packet one-way delay: 50.844 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 158.01 Mbit/s

95th percentile per-packet one-way delay: 51.233 ms

Loss rate: 0.00%

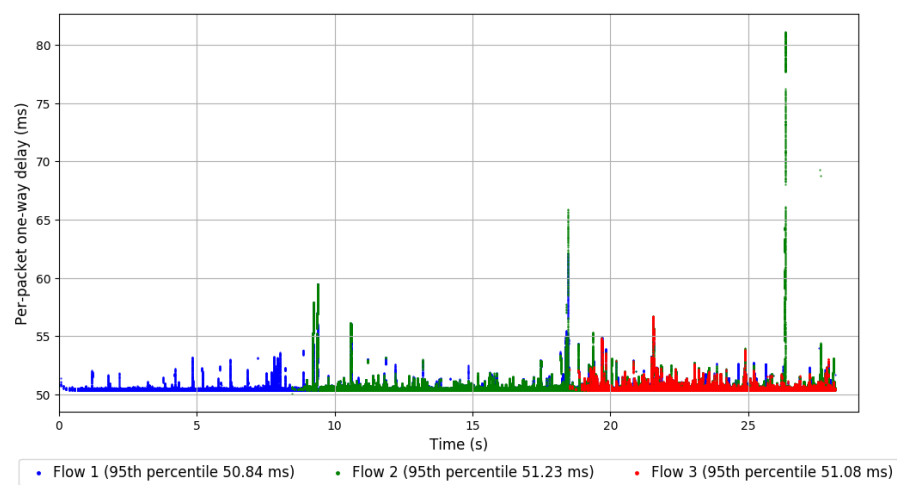
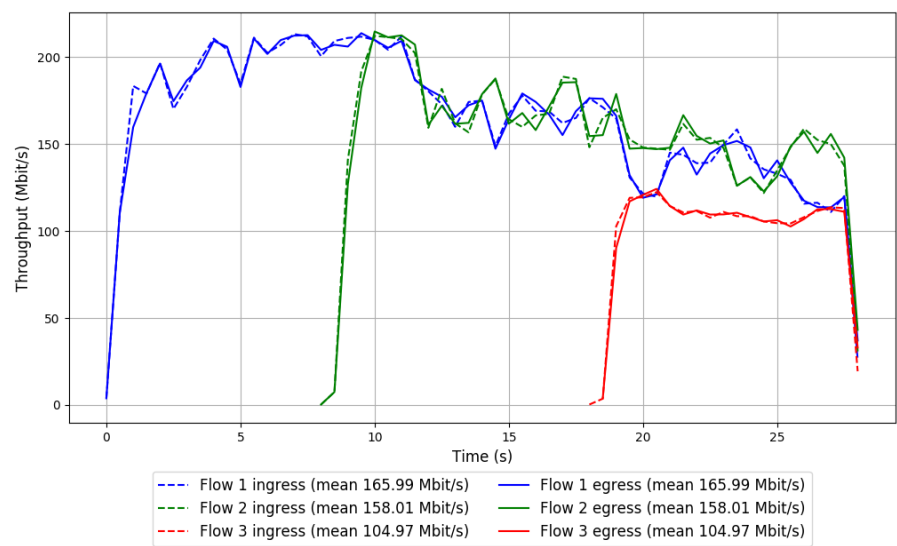
-- Flow 3:

Average throughput: 104.97 Mbit/s

95th percentile per-packet one-way delay: 51.084 ms

Loss rate: 0.00%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2017-10-12 13:55:53

End at: 2017-10-12 13:56:23

Below is generated by plot.py at 2017-10-12 17:29:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 279.64 Mbit/s

95th percentile per-packet one-way delay: 50.600 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 157.12 Mbit/s

95th percentile per-packet one-way delay: 50.558 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 132.32 Mbit/s

95th percentile per-packet one-way delay: 50.657 ms

Loss rate: 0.00%

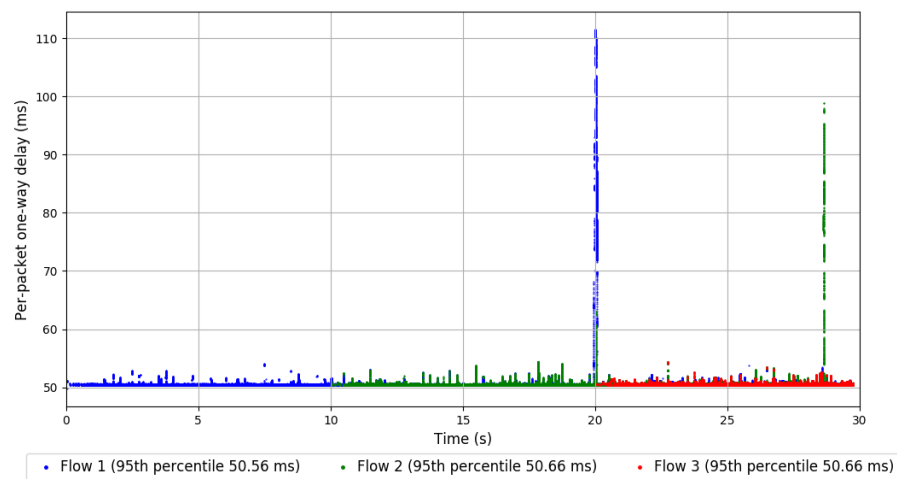
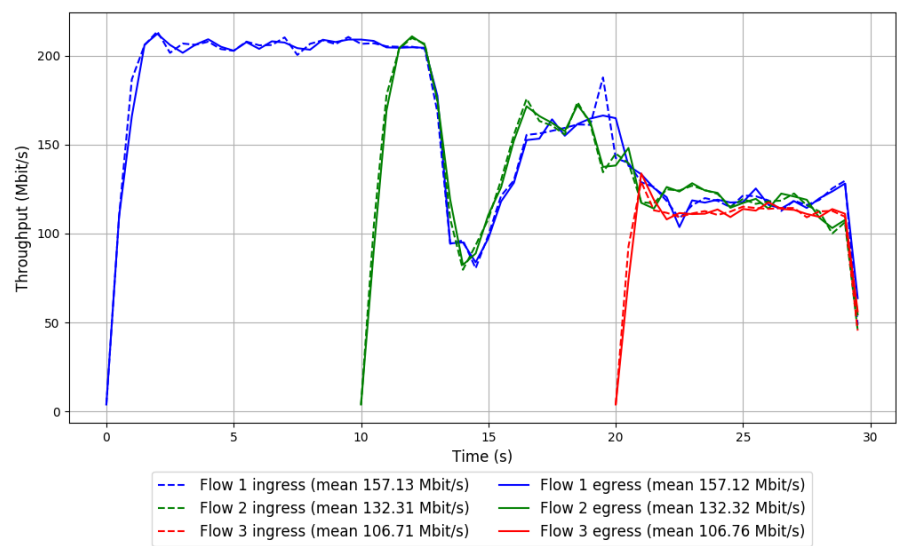
-- Flow 3:

Average throughput: 106.76 Mbit/s

95th percentile per-packet one-way delay: 50.659 ms

Loss rate: 0.00%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2017-10-12 14:08:27

End at: 2017-10-12 14:08:58

Below is generated by plot.py at 2017-10-12 17:29:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 303.81 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 174.85 Mbit/s

95th percentile per-packet one-way delay: 50.615 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 143.25 Mbit/s

95th percentile per-packet one-way delay: 50.848 ms

Loss rate: 0.00%

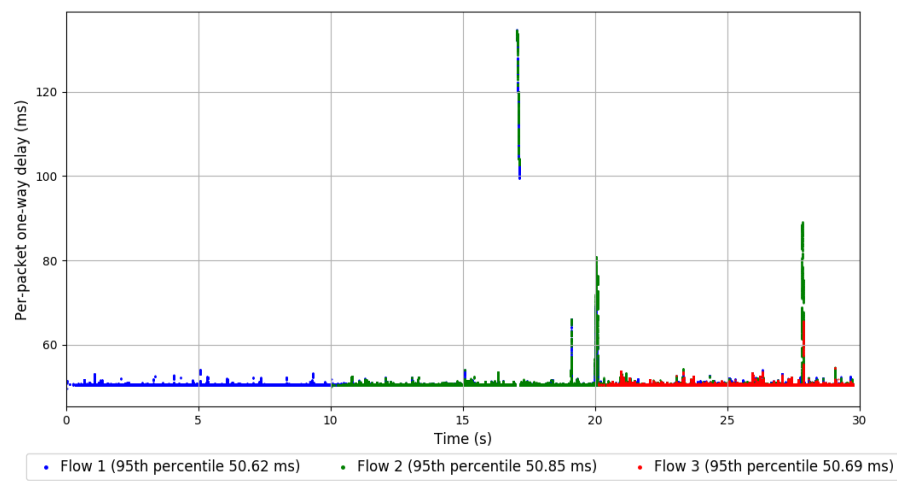
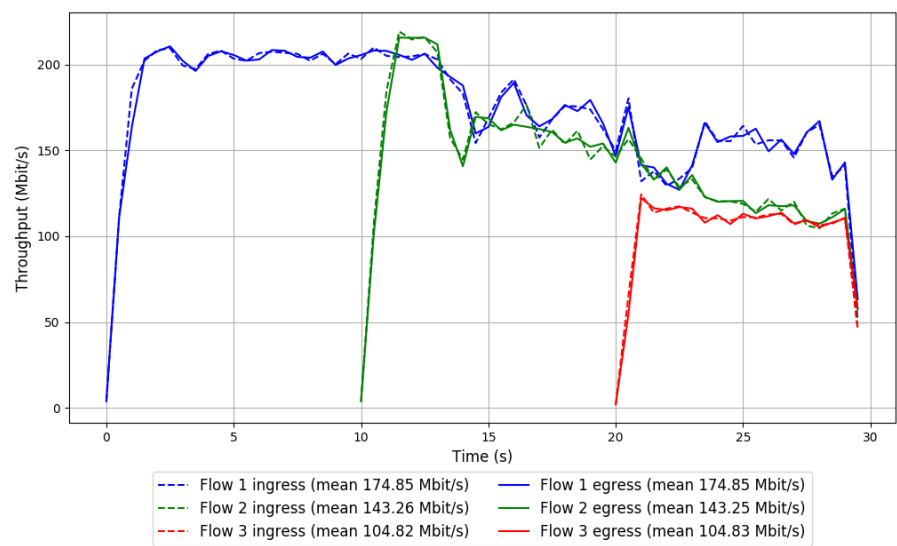
-- Flow 3:

Average throughput: 104.83 Mbit/s

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

Loss rate: 0.00%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2017-10-12 14:21:07

End at: 2017-10-12 14:21:37

Below is generated by plot.py at 2017-10-12 17:29:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 302.10 Mbit/s

95th percentile per-packet one-way delay: 49.743 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 168.03 Mbit/s

95th percentile per-packet one-way delay: 49.693 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 152.04 Mbit/s

95th percentile per-packet one-way delay: 49.785 ms

Loss rate: 0.00%

-- Flow 3:

Average throughput: 103.06 Mbit/s

95th percentile per-packet one-way delay: 49.829 ms

Loss rate: 0.00%

Run 10: Report of Indigo — Data Link

