

Pantheon Report

Generated at 2017-12-12 18:05:45 (UTC).

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

Repeated the test of 14 congestion control schemes 10 times.

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

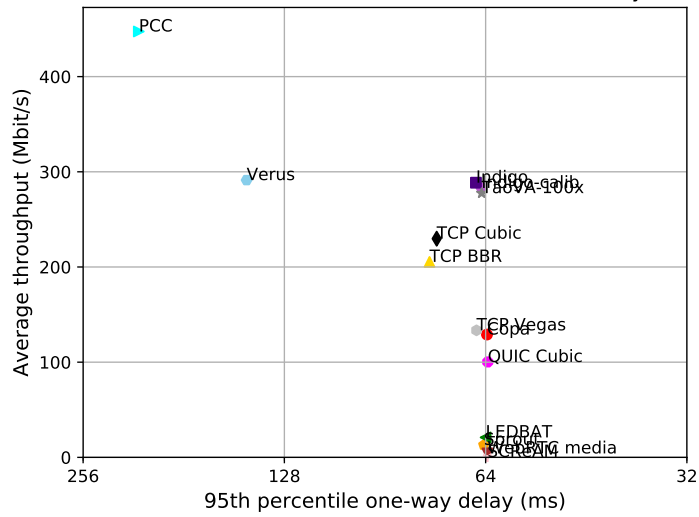
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

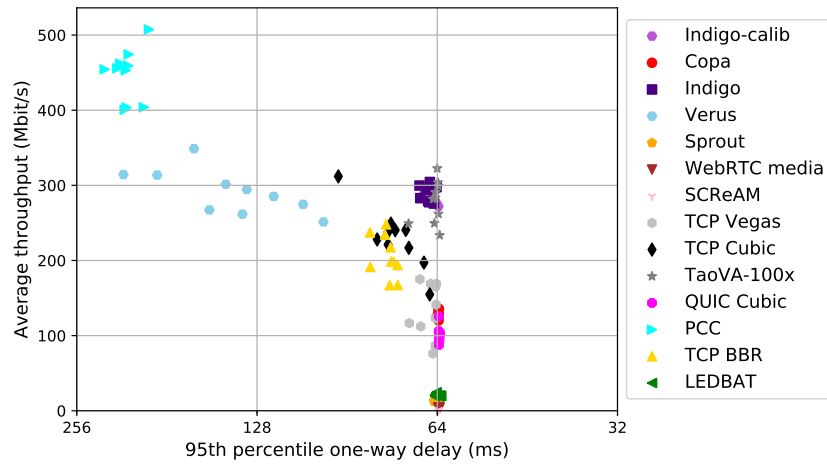
Git summary:

```
branch: indigos @ e3a57ad5ac5cfcaca0e3f983c8dd4cc3509e0262
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
M datagrump/sender.cc
third_party/genericCC @ b5b7c38e8391001927dc41c6cfa2627d03dde737
third_party/indigo @ b19f3730105f9aa95452552af924e3719b03cc55
third_party/indigo-cellular @ aee99e8eb842cb053f8c9a80e28cd256a930bbc2
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/indigo-no-cwnd @ 3e58442c04028a11d7b02456e137604633ba2d6c
third_party/indigo-no-delivery-rate @ 57caa40858b964906edff4876d5a7e5bfff666c5
third_party/indigo-no-queuing-delay @ 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 @ f1a14bffe749737437f61b1eae30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/webRTC @ a488197ddd041ace68a42849b2540ad834825f42
```

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



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



scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	10	90.29	116.75	113.42	75.25	77.98	80.93	0.02	0.02	0.04
TCP Cubic	10	119.71	108.63	114.06	74.78	75.03	77.82	0.02	0.04	0.03
LEDBAT	10	10.33	12.95	6.13	64.00	63.90	63.36	0.01	0.02	0.03
PCC	10	402.38	56.56	22.60	211.16	208.52	178.76	1.13	1.03	0.91
QUIC Cubic	10	53.58	54.58	32.27	63.33	62.90	63.20	0.02	0.01	0.00
SCReAM	5	0.22	0.22	0.21	63.19	63.51	63.19	0.00	0.00	0.00
WebRTC media	10	2.21	1.39	0.56	63.37	62.89	63.51	0.00	0.00	0.01
Sprout	10	6.57	6.49	6.25	64.44	64.26	64.22	0.00	0.01	0.00
TaoVA-100x	10	156.76	149.73	102.97	64.53	65.09	67.60	0.00	0.01	0.02
TCP Vegas	10	67.38	66.22	66.48	65.17	66.15	66.41	0.01	0.01	0.03
Verus	10	184.82	119.47	80.62	131.24	171.49	157.63	0.27	2.39	0.95
Copa	8	70.29	66.80	55.99	63.66	63.68	67.71	0.00	0.00	5.78
Indigo	10	159.38	146.05	100.12	65.29	66.63	69.41	0.00	0.01	0.00
Indigo-calib	10	157.96	136.07	107.99	64.56	65.48	64.95	0.01	0.02	0.04

Run 1: Statistics of TCP BBR

Start at: 2017-12-12 13:50:04

End at: 2017-12-12 13:50:34

Below is generated by plot.py at 2017-12-12 17:05:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 193.93 Mbit/s

95th percentile per-packet one-way delay: 74.558 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 107.64 Mbit/s

95th percentile per-packet one-way delay: 73.821 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 86.50 Mbit/s

95th percentile per-packet one-way delay: 74.036 ms

Loss rate: 0.00%

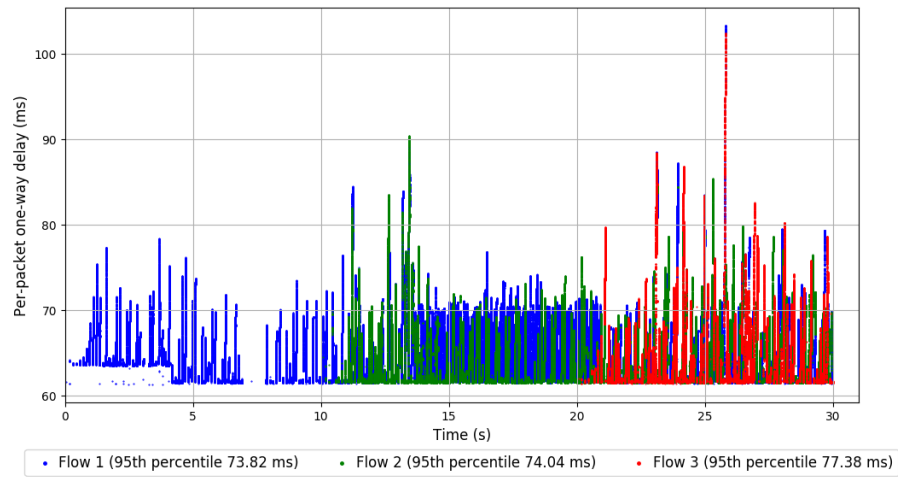
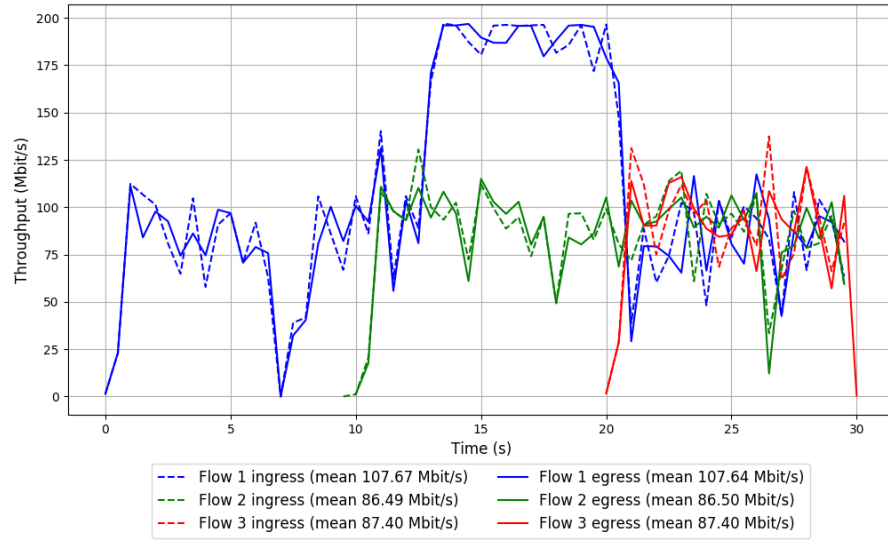
-- Flow 3:

Average throughput: 87.40 Mbit/s

95th percentile per-packet one-way delay: 77.376 ms

Loss rate: 0.00%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2017-12-12 14:02:30

End at: 2017-12-12 14:03:00

Below is generated by plot.py at 2017-12-12 17:06:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 198.57 Mbit/s

95th percentile per-packet one-way delay: 76.418 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 85.98 Mbit/s

95th percentile per-packet one-way delay: 74.536 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 126.71 Mbit/s

95th percentile per-packet one-way delay: 77.890 ms

Loss rate: 0.02%

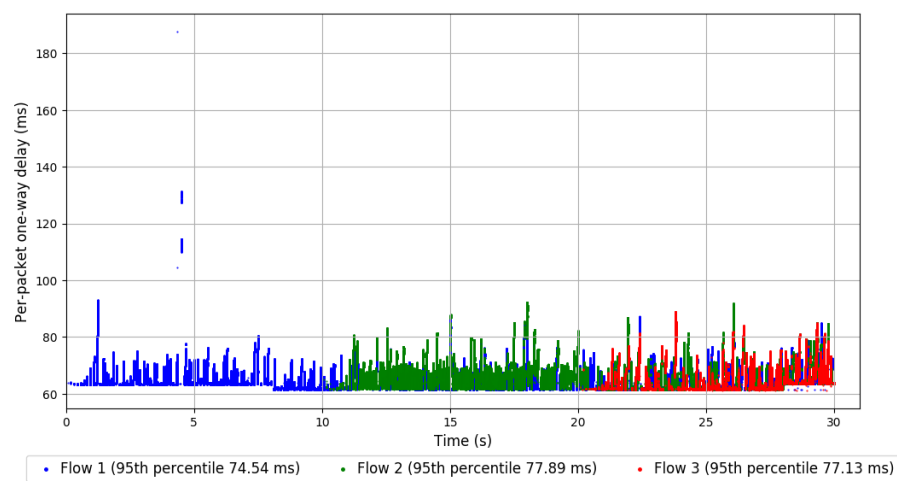
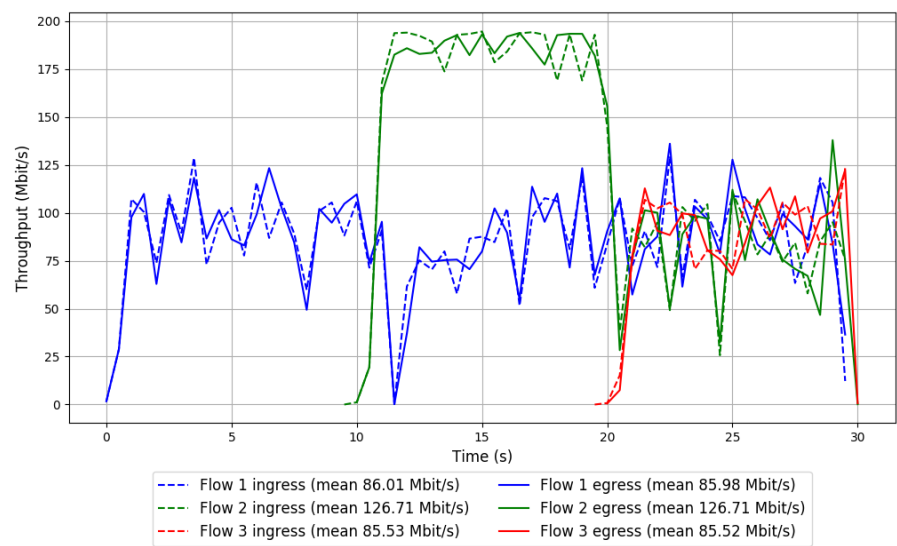
-- Flow 3:

Average throughput: 85.52 Mbit/s

95th percentile per-packet one-way delay: 77.129 ms

Loss rate: 0.02%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2017-12-12 14:14:54

End at: 2017-12-12 14:15:24

Below is generated by plot.py at 2017-12-12 17:06:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 198.28 Mbit/s

95th percentile per-packet one-way delay: 75.705 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 80.30 Mbit/s

95th percentile per-packet one-way delay: 73.284 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 134.58 Mbit/s

95th percentile per-packet one-way delay: 76.547 ms

Loss rate: 0.00%

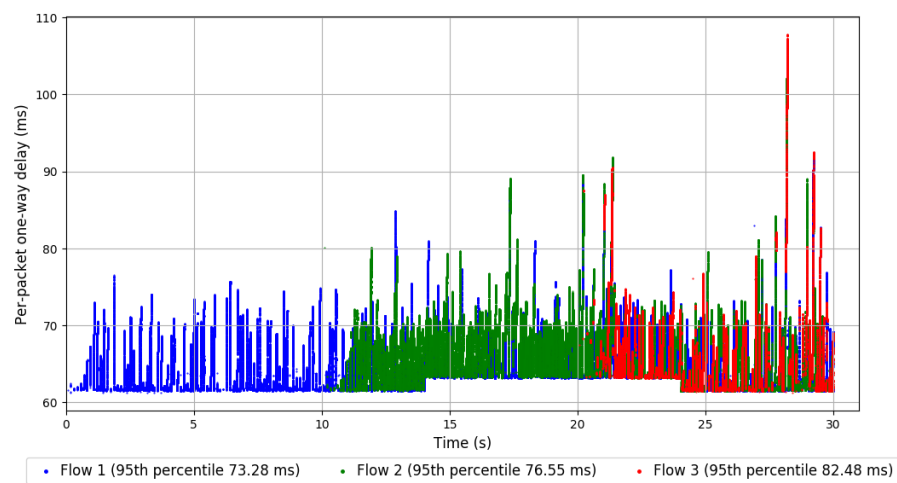
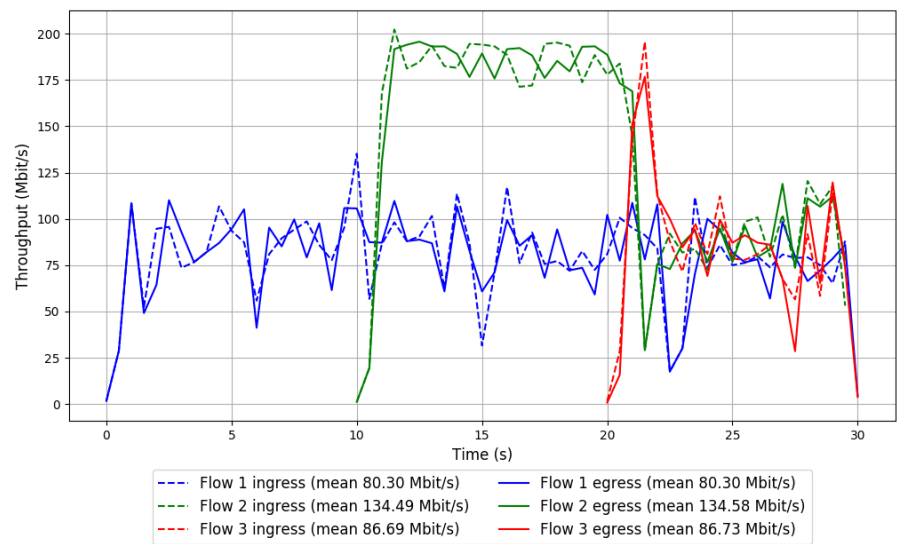
-- Flow 3:

Average throughput: 86.73 Mbit/s

95th percentile per-packet one-way delay: 82.479 ms

Loss rate: 0.00%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2017-12-12 14:27:15

End at: 2017-12-12 14:27:45

Below is generated by plot.py at 2017-12-12 17:06:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 237.23 Mbit/s

95th percentile per-packet one-way delay: 82.909 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 97.28 Mbit/s

95th percentile per-packet one-way delay: 78.925 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 133.03 Mbit/s

95th percentile per-packet one-way delay: 82.520 ms

Loss rate: 0.00%

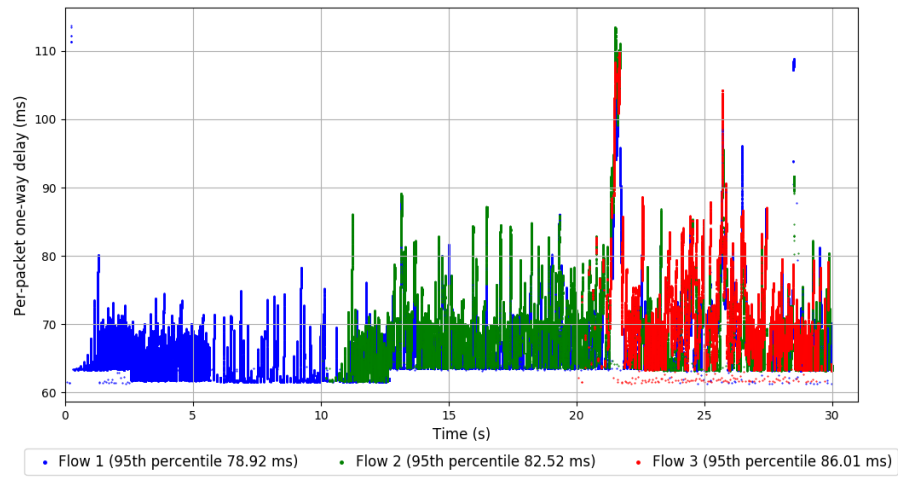
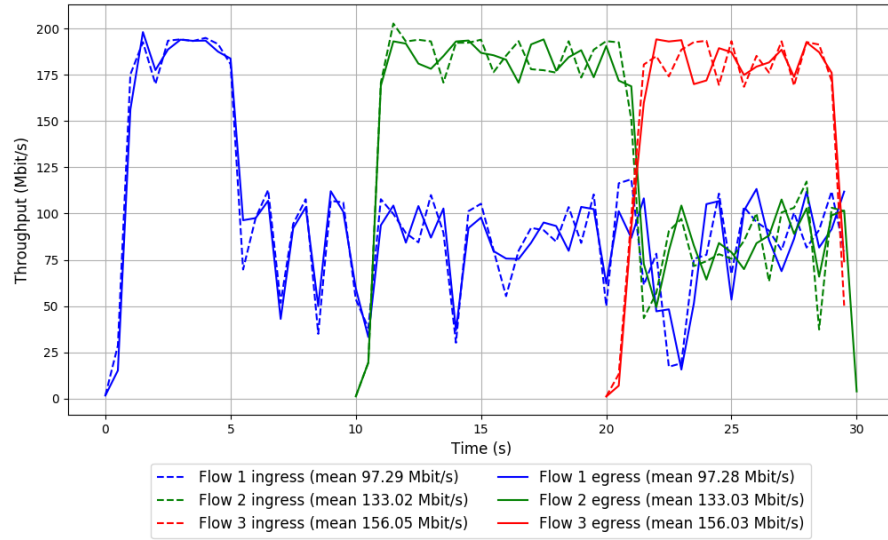
-- Flow 3:

Average throughput: 156.03 Mbit/s

95th percentile per-packet one-way delay: 86.008 ms

Loss rate: 0.00%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2017-12-12 14:39:43

End at: 2017-12-12 14:40:13

Below is generated by plot.py at 2017-12-12 17:06:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 217.42 Mbit/s

95th percentile per-packet one-way delay: 76.591 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 103.46 Mbit/s

95th percentile per-packet one-way delay: 73.436 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 101.71 Mbit/s

95th percentile per-packet one-way delay: 78.299 ms

Loss rate: 0.00%

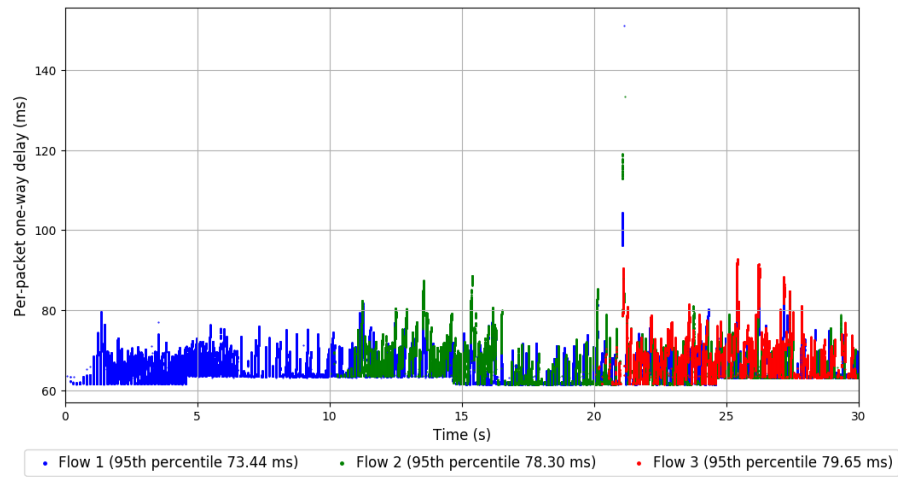
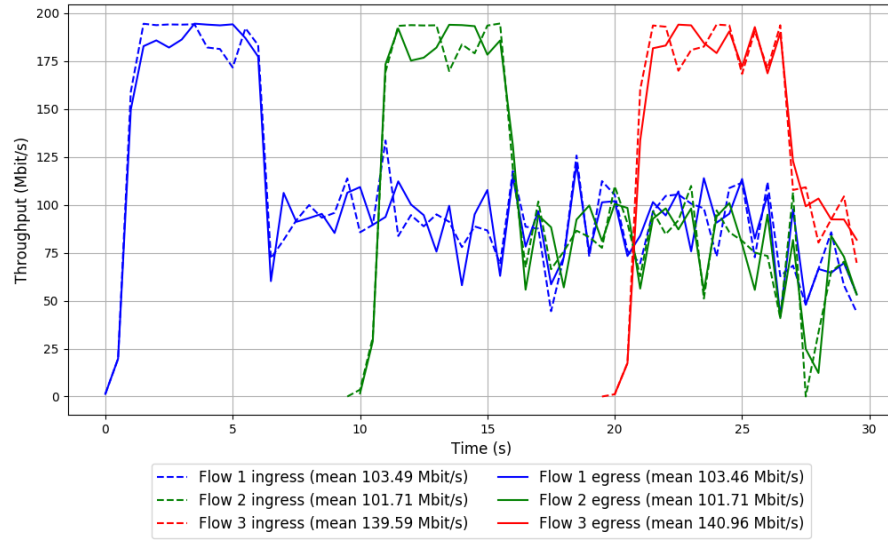
-- Flow 3:

Average throughput: 140.96 Mbit/s

95th percentile per-packet one-way delay: 79.650 ms

Loss rate: 0.00%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2017-12-12 14:52:10

End at: 2017-12-12 14:52:40

Below is generated by plot.py at 2017-12-12 17:06:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 191.34 Mbit/s

95th percentile per-packet one-way delay: 82.786 ms

Loss rate: 0.11%

-- Flow 1:

Average throughput: 82.27 Mbit/s

95th percentile per-packet one-way delay: 76.746 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 83.64 Mbit/s

95th percentile per-packet one-way delay: 80.221 ms

Loss rate: 0.00%

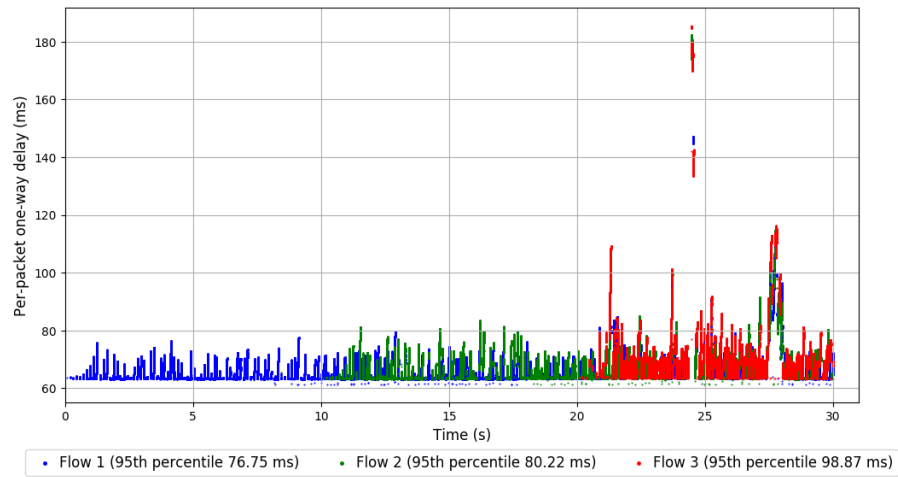
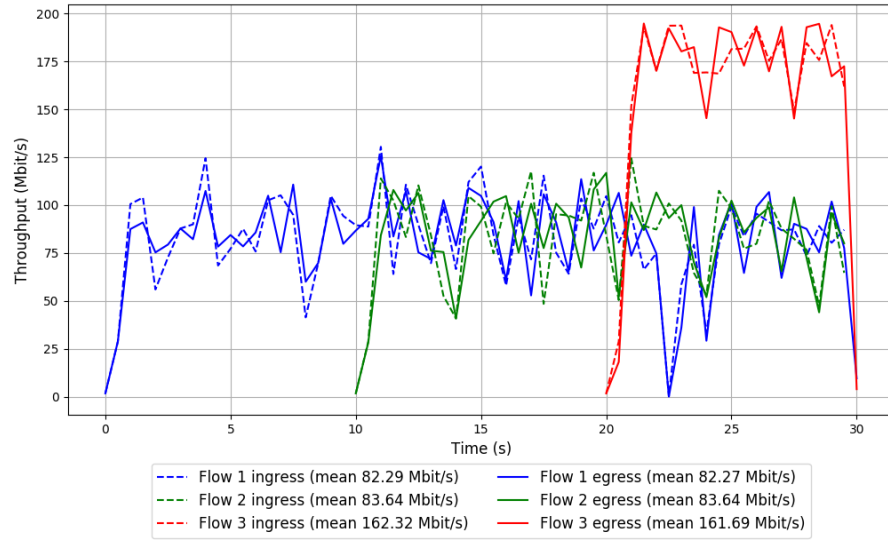
-- Flow 3:

Average throughput: 161.69 Mbit/s

95th percentile per-packet one-way delay: 98.867 ms

Loss rate: 0.41%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2017-12-12 15:04:28

End at: 2017-12-12 15:04:58

Below is generated by plot.py at 2017-12-12 17:06:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 248.05 Mbit/s

95th percentile per-packet one-way delay: 77.906 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 86.57 Mbit/s

95th percentile per-packet one-way delay: 74.851 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 158.86 Mbit/s

95th percentile per-packet one-way delay: 78.496 ms

Loss rate: 0.01%

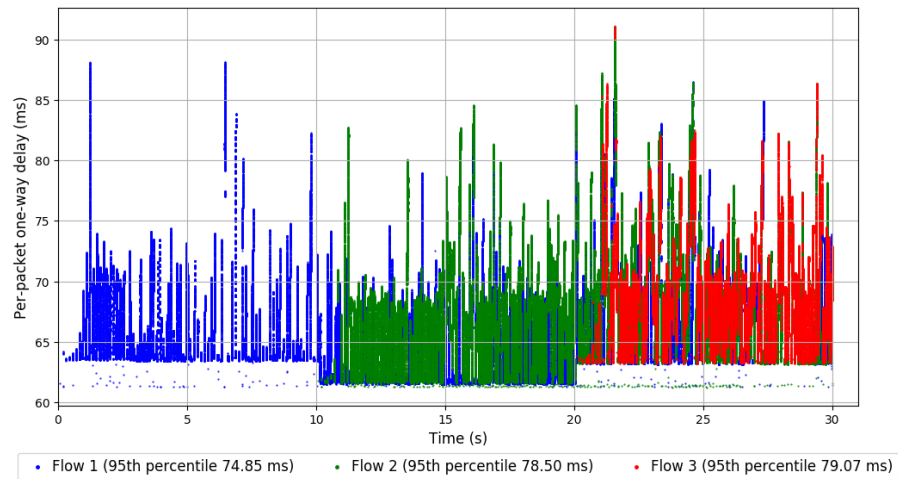
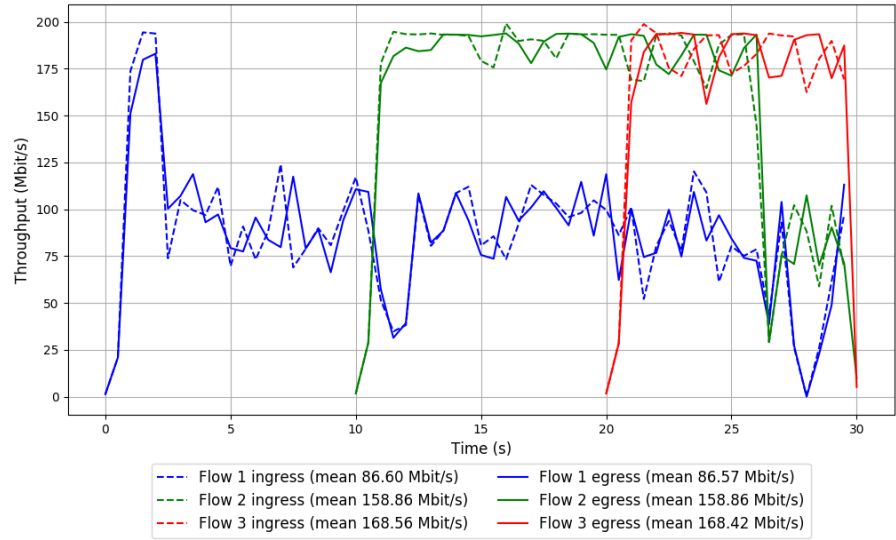
-- Flow 3:

Average throughput: 168.42 Mbit/s

95th percentile per-packet one-way delay: 79.069 ms

Loss rate: 0.00%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2017-12-12 15:16:51

End at: 2017-12-12 15:17:21

Below is generated by plot.py at 2017-12-12 17:06:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 167.35 Mbit/s

95th percentile per-packet one-way delay: 74.502 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 86.60 Mbit/s

95th percentile per-packet one-way delay: 74.086 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 82.30 Mbit/s

95th percentile per-packet one-way delay: 74.689 ms

Loss rate: 0.00%

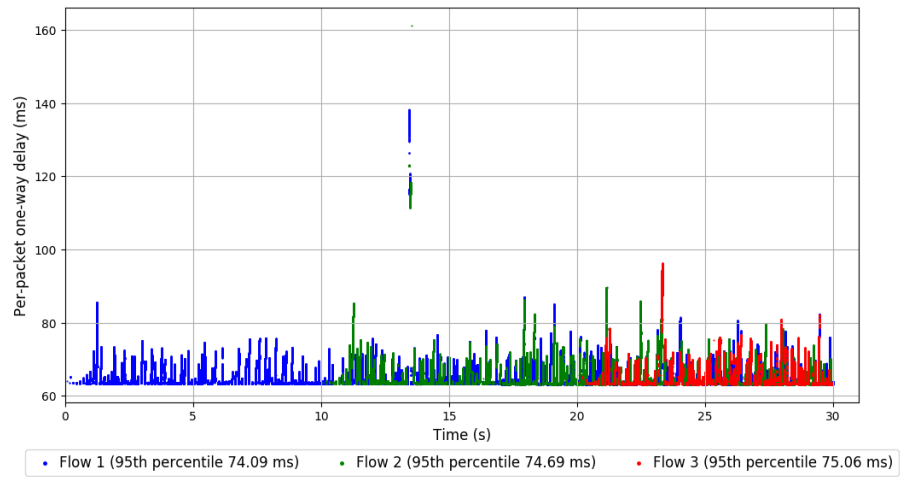
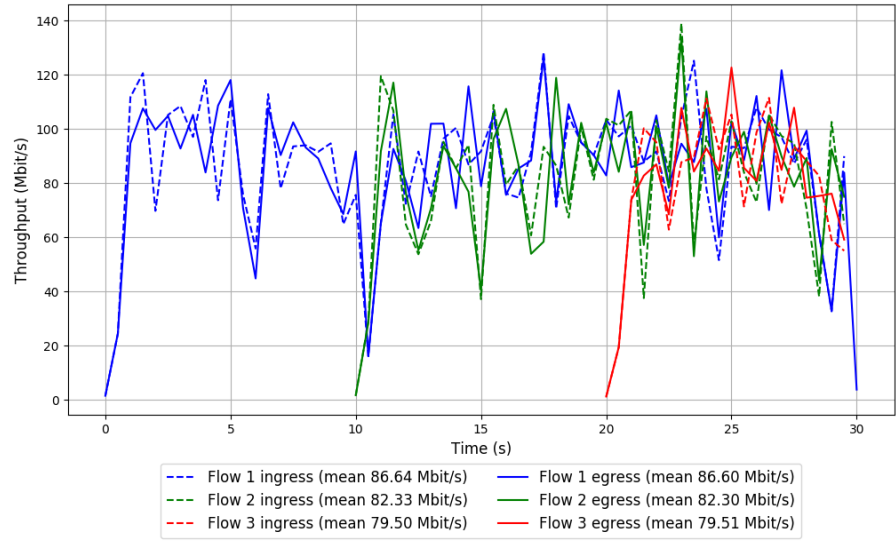
-- Flow 3:

Average throughput: 79.51 Mbit/s

95th percentile per-packet one-way delay: 75.061 ms

Loss rate: 0.00%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2017-12-12 15:28:55

End at: 2017-12-12 15:29:25

Below is generated by plot.py at 2017-12-12 17:08:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 167.11 Mbit/s

95th percentile per-packet one-way delay: 76.864 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 85.01 Mbit/s

95th percentile per-packet one-way delay: 77.279 ms

Loss rate: 0.17%

-- Flow 2:

Average throughput: 82.52 Mbit/s

95th percentile per-packet one-way delay: 77.414 ms

Loss rate: 0.04%

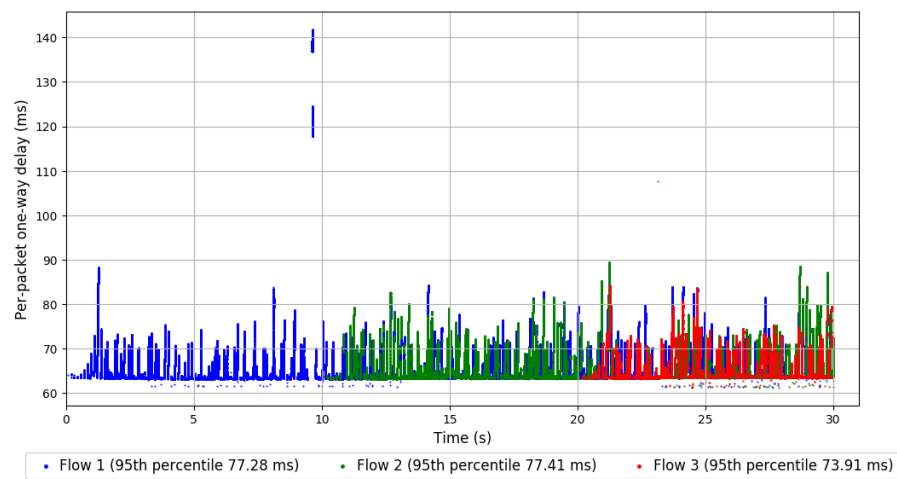
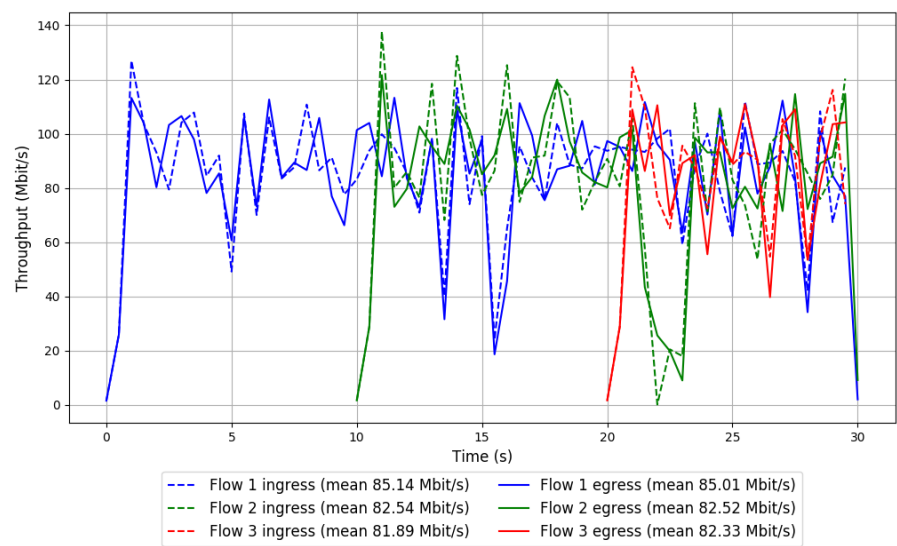
-- Flow 3:

Average throughput: 82.33 Mbit/s

95th percentile per-packet one-way delay: 73.908 ms

Loss rate: 0.00%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2017-12-12 15:41:05

End at: 2017-12-12 15:41:35

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 234.28 Mbit/s

95th percentile per-packet one-way delay: 78.211 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 87.75 Mbit/s

95th percentile per-packet one-way delay: 75.492 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 177.69 Mbit/s

95th percentile per-packet one-way delay: 79.640 ms

Loss rate: 0.15%

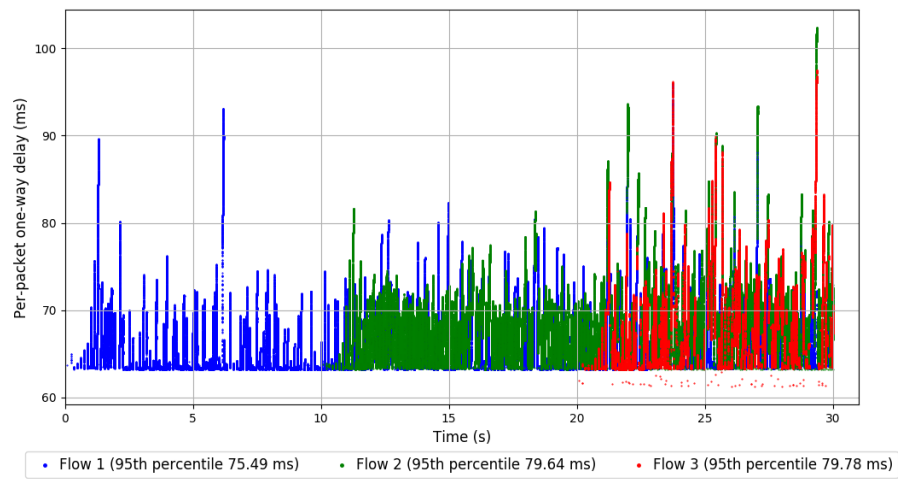
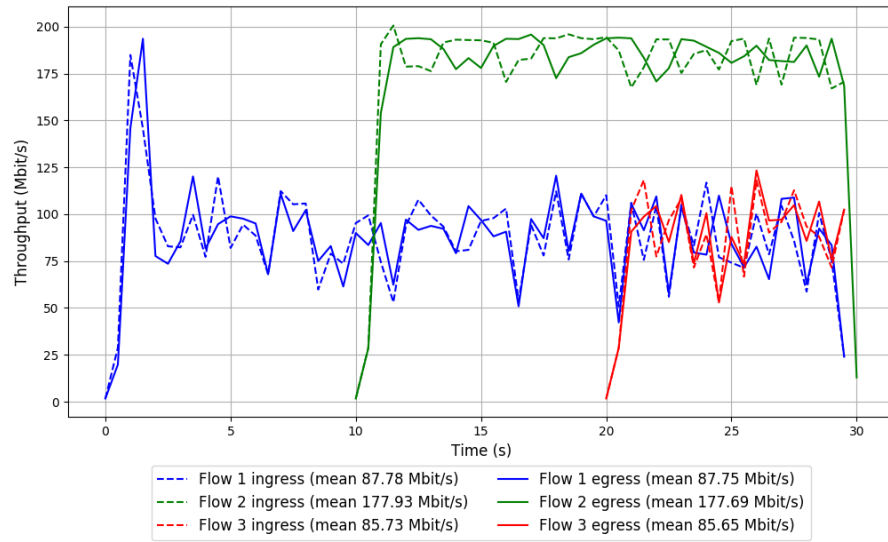
-- Flow 3:

Average throughput: 85.65 Mbit/s

95th percentile per-packet one-way delay: 79.780 ms

Loss rate: 0.00%

Run 10: Report of TCP BBR — Data Link

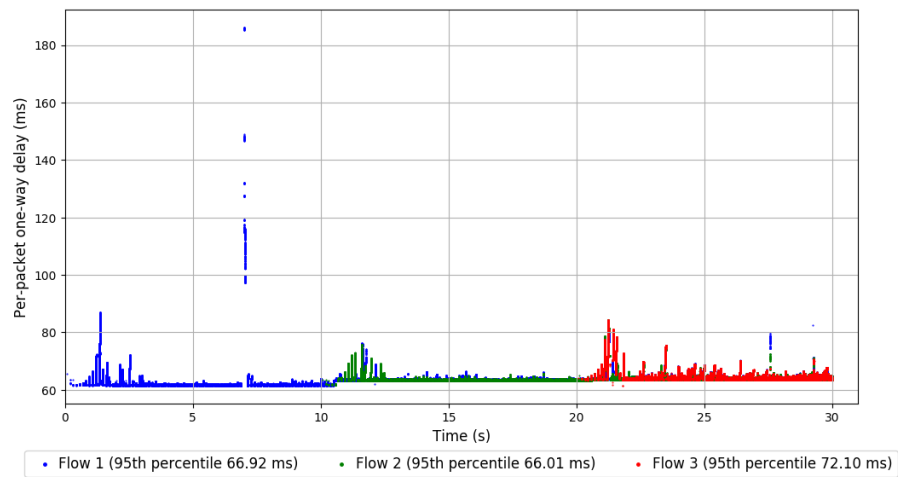
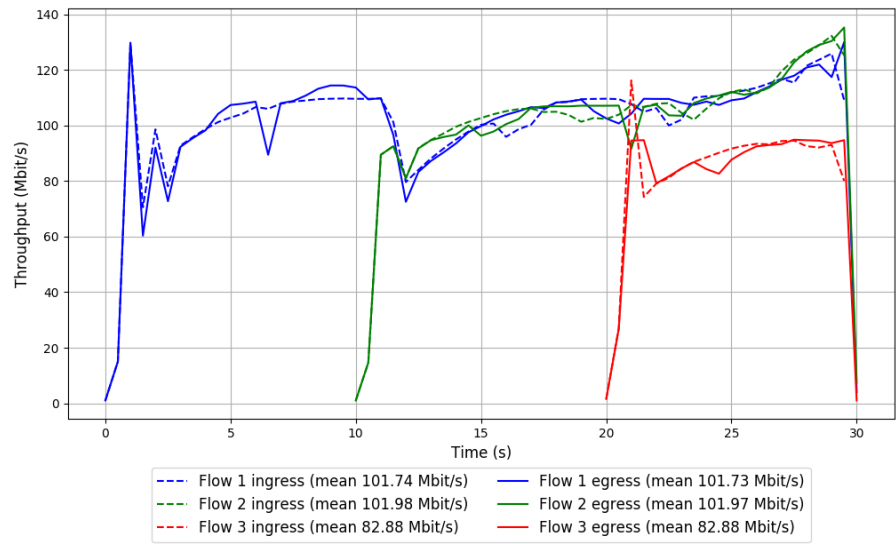


```
Run 1: Statistics of TCP Cubic

Start at: 2017-12-12 13:46:27
End at: 2017-12-12 13:46:57

# Below is generated by plot.py at 2017-12-12 17:10:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 197.14 Mbit/s
95th percentile per-packet one-way delay: 67.357 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 101.73 Mbit/s
95th percentile per-packet one-way delay: 66.920 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 101.97 Mbit/s
95th percentile per-packet one-way delay: 66.011 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 82.88 Mbit/s
95th percentile per-packet one-way delay: 72.097 ms
Loss rate: 0.00%
```

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2017-12-12 13:58:54

End at: 2017-12-12 13:59:24

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 227.97 Mbit/s

95th percentile per-packet one-way delay: 80.638 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 96.88 Mbit/s

95th percentile per-packet one-way delay: 80.059 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 113.23 Mbit/s

95th percentile per-packet one-way delay: 79.435 ms

Loss rate: 0.00%

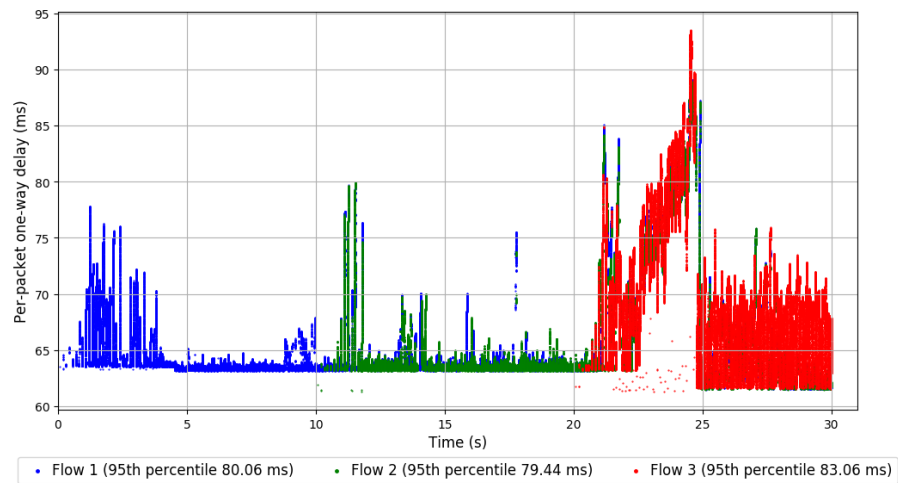
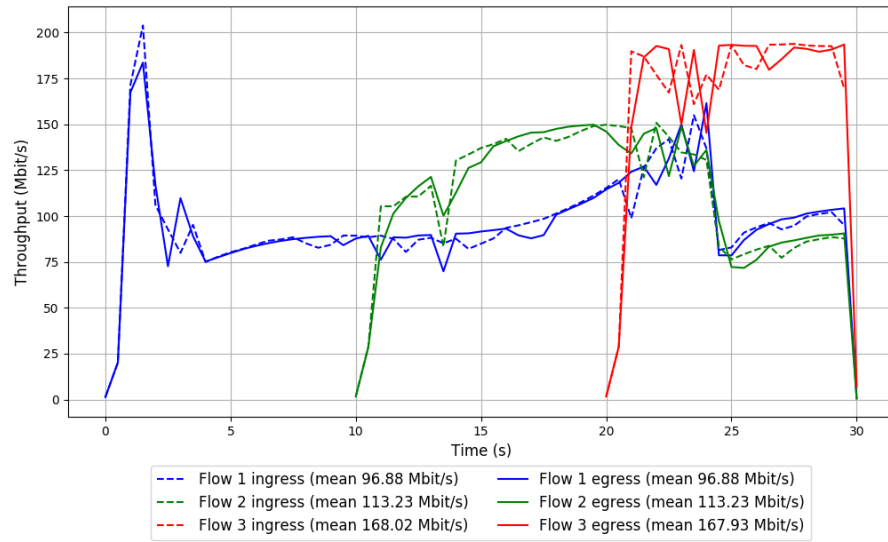
-- Flow 3:

Average throughput: 167.93 Mbit/s

95th percentile per-packet one-way delay: 83.061 ms

Loss rate: 0.00%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

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

End at: 2017-12-12 14:11:44

Below is generated by plot.py at 2017-12-12 17:10:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 240.66 Mbit/s

95th percentile per-packet one-way delay: 72.228 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 105.10 Mbit/s

95th percentile per-packet one-way delay: 71.331 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 117.61 Mbit/s

95th percentile per-packet one-way delay: 71.317 ms

Loss rate: 0.03%

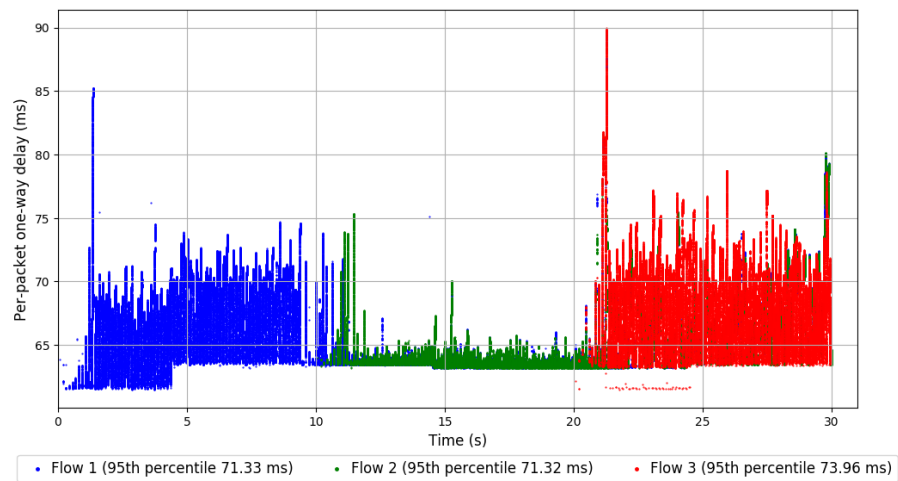
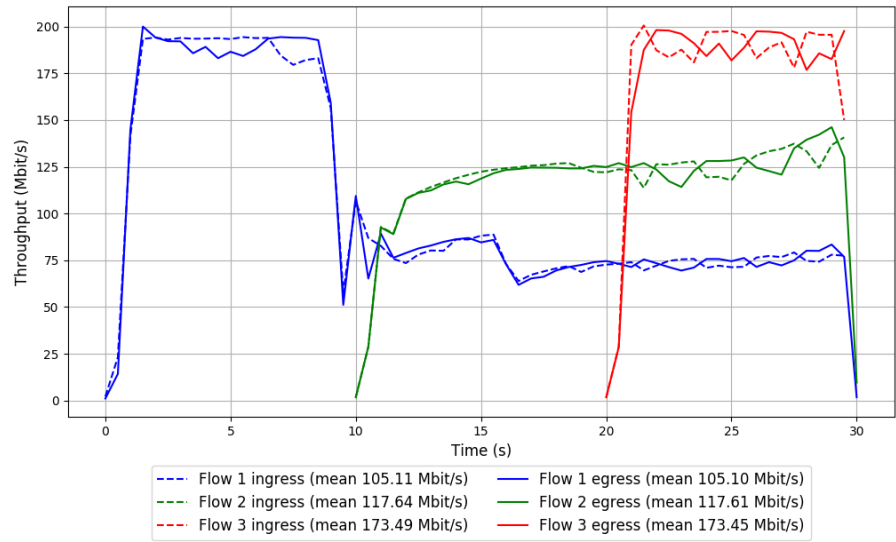
-- Flow 3:

Average throughput: 173.45 Mbit/s

95th percentile per-packet one-way delay: 73.964 ms

Loss rate: 0.00%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2017-12-12 14:23:36

End at: 2017-12-12 14:24:06

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 240.38 Mbit/s

95th percentile per-packet one-way delay: 75.223 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 115.02 Mbit/s

95th percentile per-packet one-way delay: 74.272 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 136.41 Mbit/s

95th percentile per-packet one-way delay: 75.028 ms

Loss rate: 0.00%

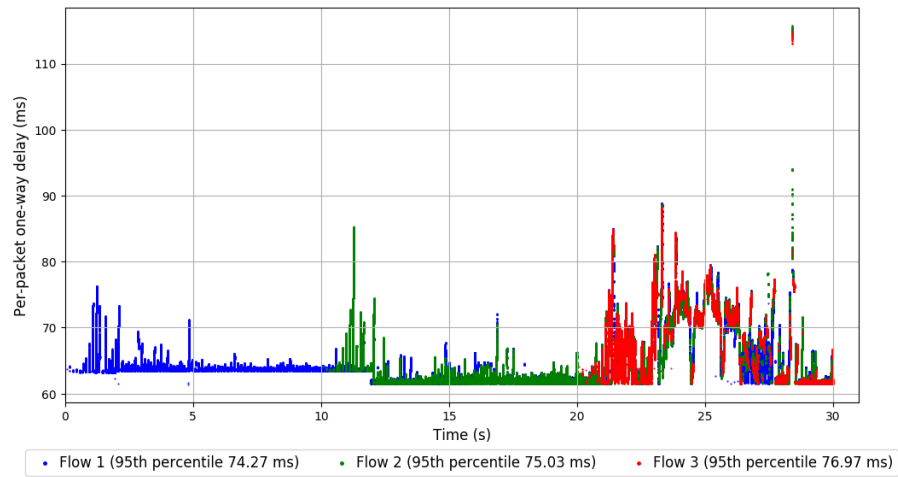
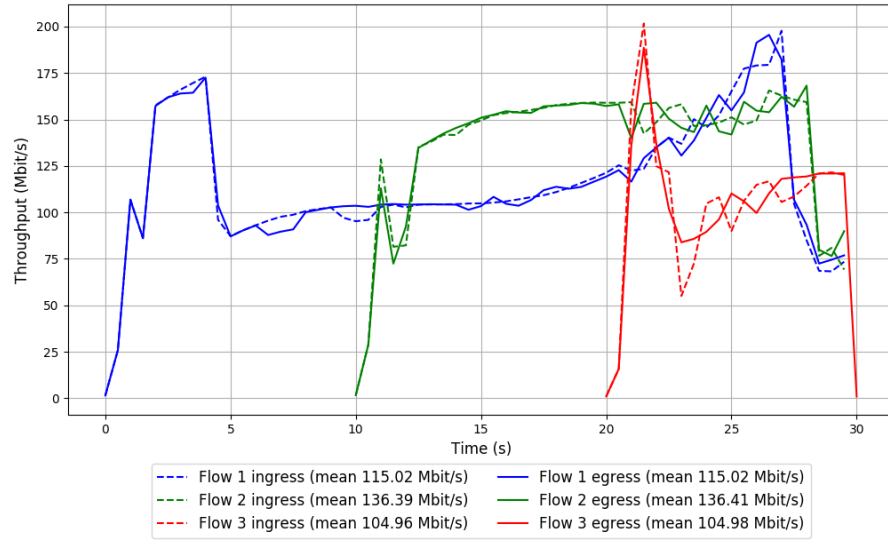
-- Flow 3:

Average throughput: 104.98 Mbit/s

95th percentile per-packet one-way delay: 76.973 ms

Loss rate: 0.00%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2017-12-12 14:36:04

End at: 2017-12-12 14:36:34

Below is generated by plot.py at 2017-12-12 17:11:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 237.55 Mbit/s

95th percentile per-packet one-way delay: 77.398 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 114.88 Mbit/s

95th percentile per-packet one-way delay: 76.294 ms

Loss rate: 0.09%

-- Flow 2:

Average throughput: 107.57 Mbit/s

95th percentile per-packet one-way delay: 78.443 ms

Loss rate: 0.08%

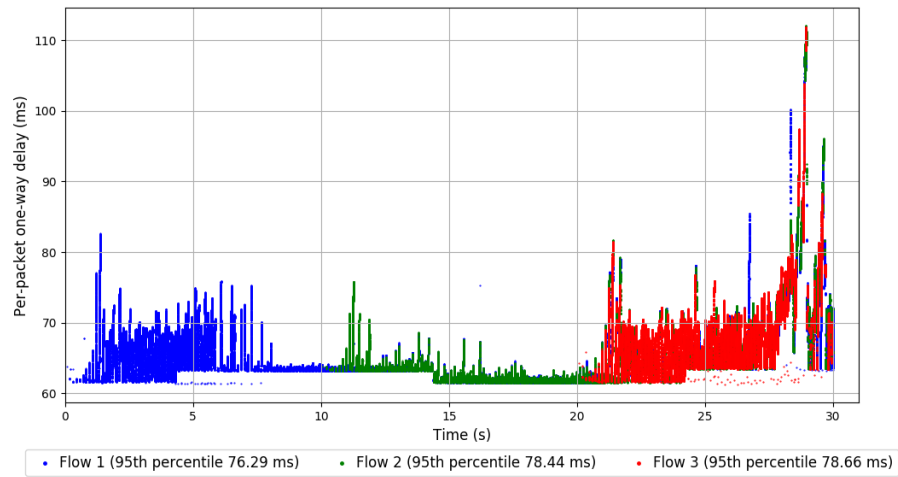
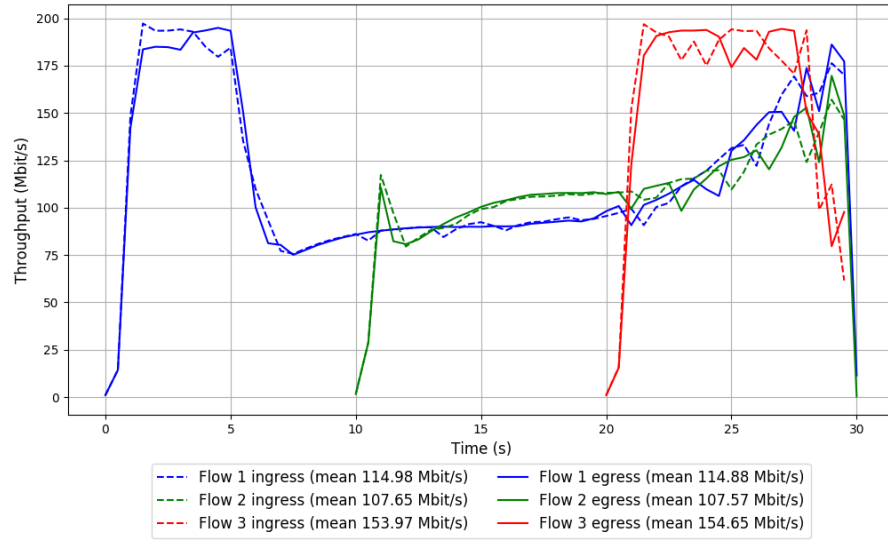
-- Flow 3:

Average throughput: 154.65 Mbit/s

95th percentile per-packet one-way delay: 78.661 ms

Loss rate: 0.00%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2017-12-12 14:48:30

End at: 2017-12-12 14:49:00

Below is generated by plot.py at 2017-12-12 17:11:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 221.08 Mbit/s

95th percentile per-packet one-way delay: 77.316 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 130.49 Mbit/s

95th percentile per-packet one-way delay: 74.327 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 87.08 Mbit/s

95th percentile per-packet one-way delay: 76.903 ms

Loss rate: 0.00%

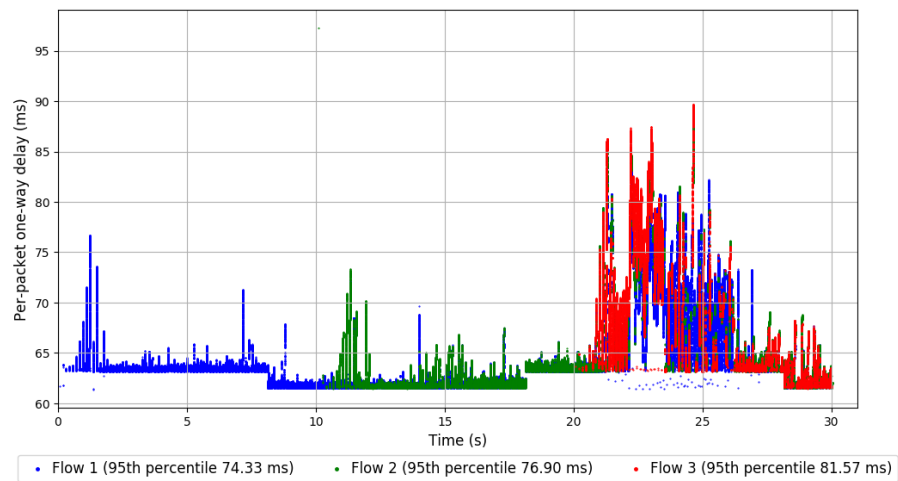
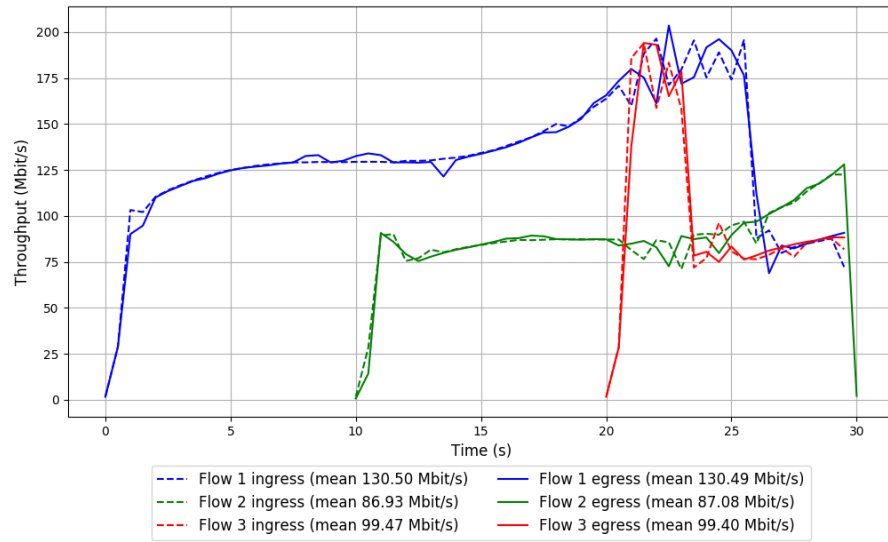
-- Flow 3:

Average throughput: 99.40 Mbit/s

95th percentile per-packet one-way delay: 81.567 ms

Loss rate: 0.10%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2017-12-12 15:00:52

End at: 2017-12-12 15:01:22

Below is generated by plot.py at 2017-12-12 17:12:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 216.86 Mbit/s

95th percentile per-packet one-way delay: 71.393 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 110.02 Mbit/s

95th percentile per-packet one-way delay: 71.091 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 114.86 Mbit/s

95th percentile per-packet one-way delay: 69.879 ms

Loss rate: 0.00%

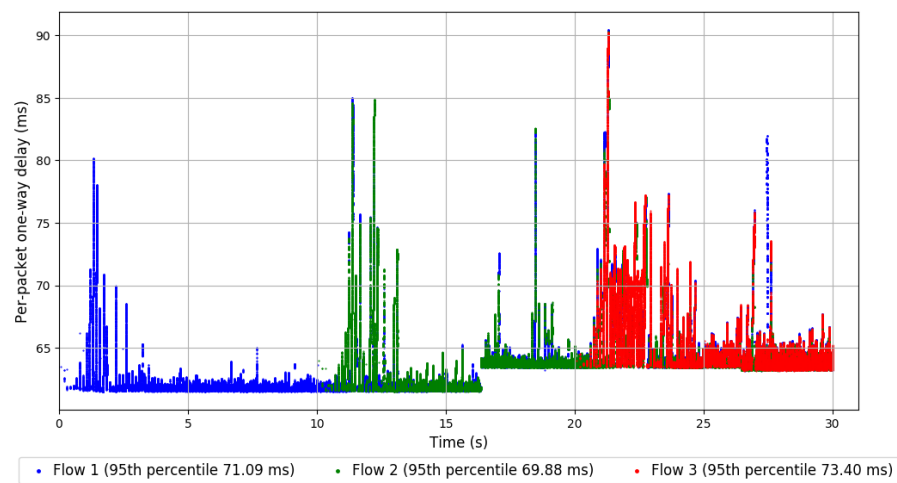
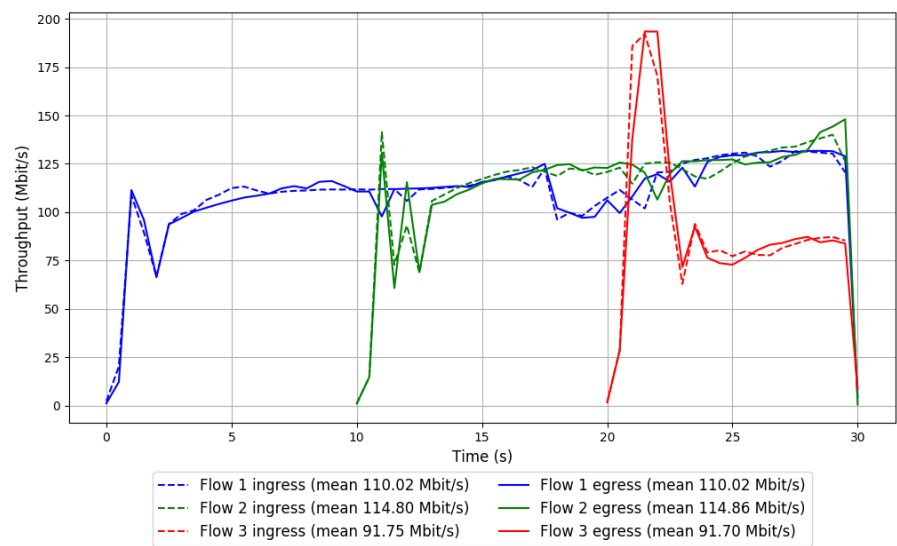
-- Flow 3:

Average throughput: 91.70 Mbit/s

95th percentile per-packet one-way delay: 73.401 ms

Loss rate: 0.06%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2017-12-12 15:13:14

End at: 2017-12-12 15:13:44

Below is generated by plot.py at 2017-12-12 17:12:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 154.85 Mbit/s

95th percentile per-packet one-way delay: 65.876 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 93.24 Mbit/s

95th percentile per-packet one-way delay: 66.359 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 90.48 Mbit/s

95th percentile per-packet one-way delay: 65.258 ms

Loss rate: 0.26%

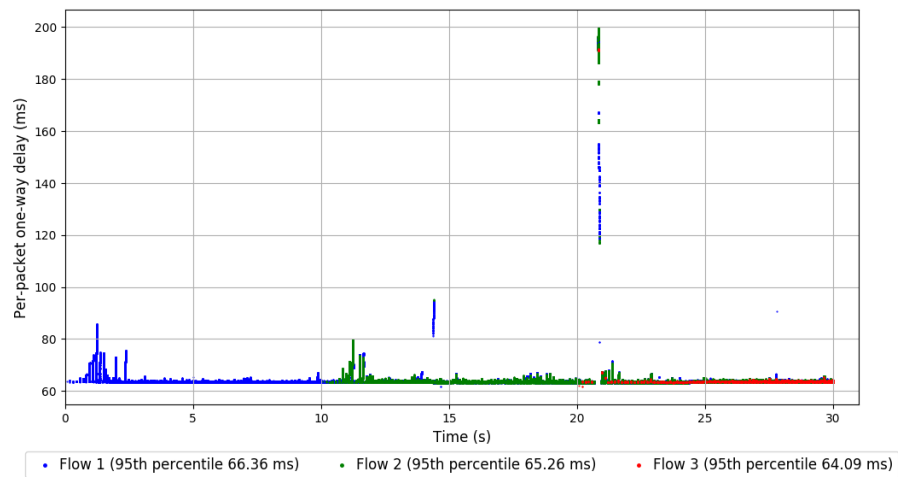
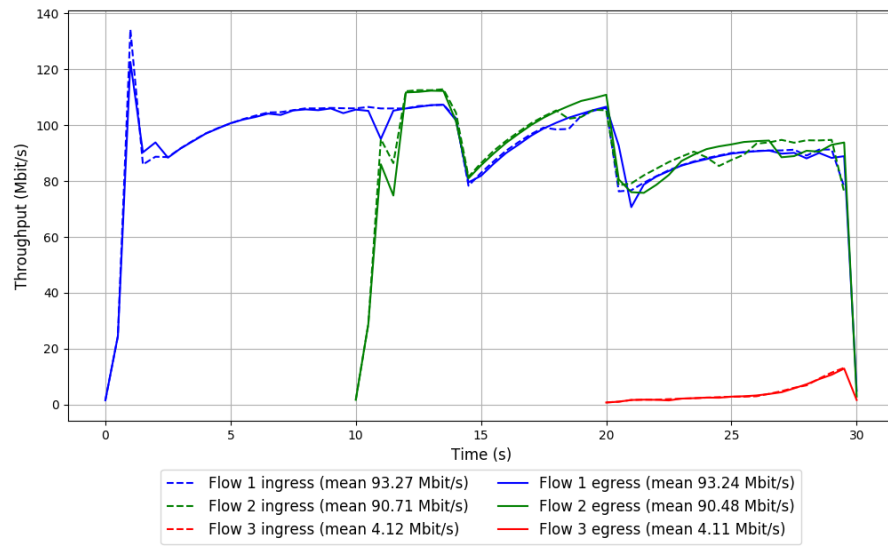
-- Flow 3:

Average throughput: 4.11 Mbit/s

95th percentile per-packet one-way delay: 64.094 ms

Loss rate: 0.12%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2017-12-12 15:25:17

End at: 2017-12-12 15:25:47

Below is generated by plot.py at 2017-12-12 17:14:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 249.08 Mbit/s

95th percentile per-packet one-way delay: 76.489 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 172.33 Mbit/s

95th percentile per-packet one-way delay: 75.859 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 42.06 Mbit/s

95th percentile per-packet one-way delay: 73.455 ms

Loss rate: 0.03%

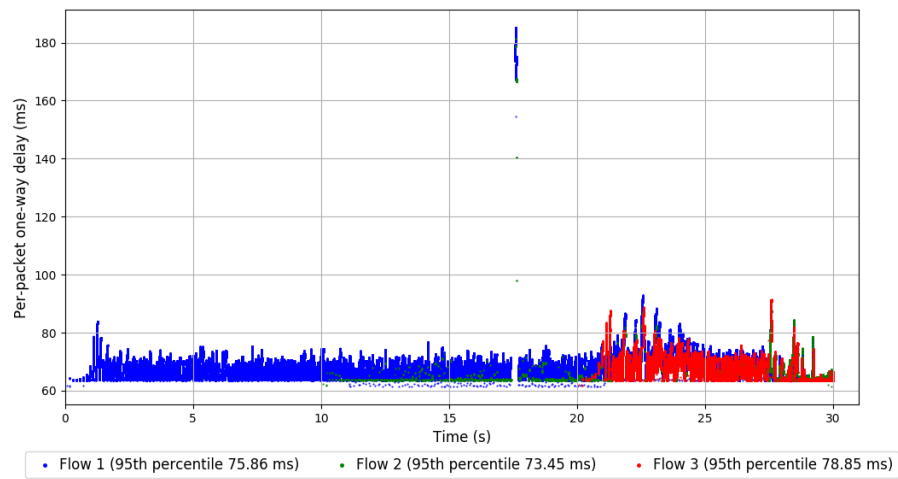
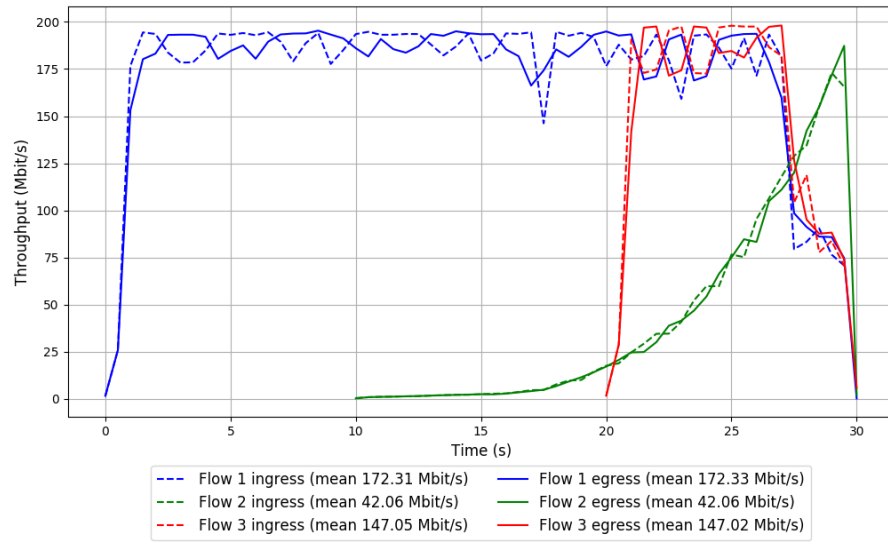
-- Flow 3:

Average throughput: 147.02 Mbit/s

95th percentile per-packet one-way delay: 78.849 ms

Loss rate: 0.00%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2017-12-12 15:37:22

End at: 2017-12-12 15:37:52

Below is generated by plot.py at 2017-12-12 17:15:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 311.90 Mbit/s

95th percentile per-packet one-way delay: 93.630 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 157.44 Mbit/s

95th percentile per-packet one-way delay: 91.278 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 175.07 Mbit/s

95th percentile per-packet one-way delay: 94.528 ms

Loss rate: 0.00%

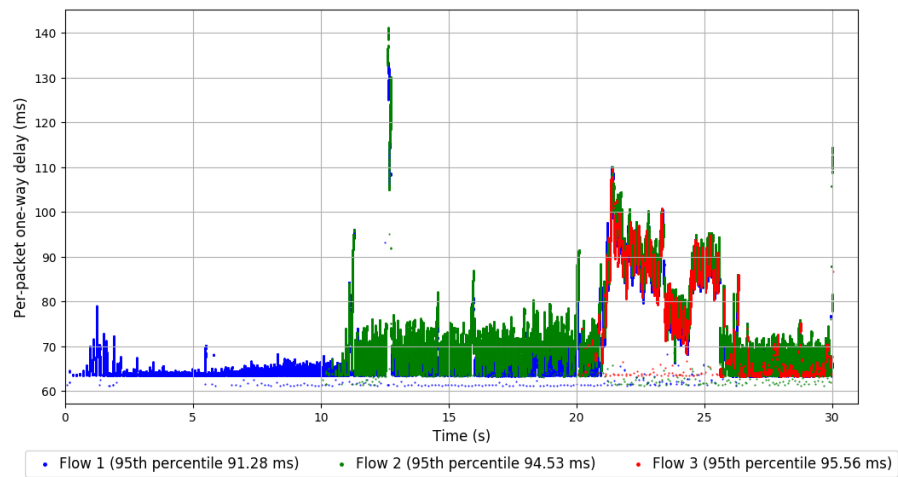
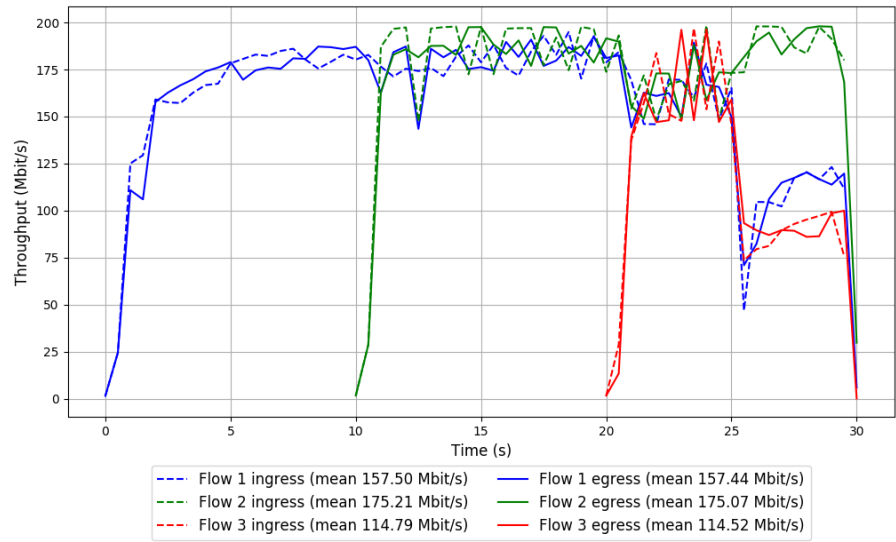
-- Flow 3:

Average throughput: 114.52 Mbit/s

95th percentile per-packet one-way delay: 95.565 ms

Loss rate: 0.01%

Run 10: Report of TCP Cubic — Data Link

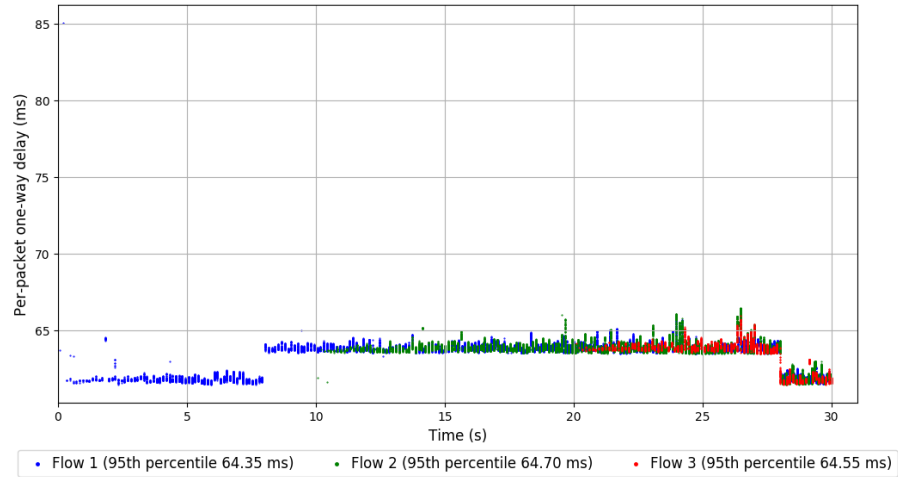
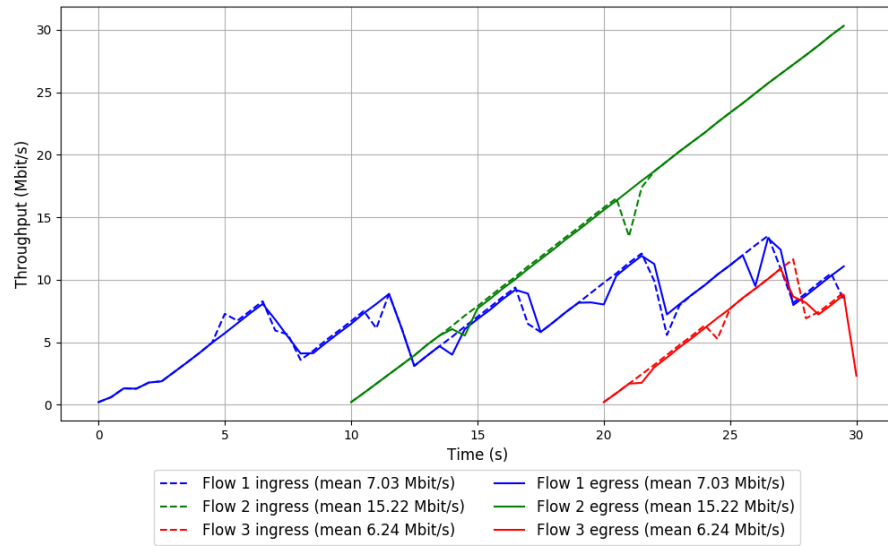


```
Run 1: Statistics of LEDBAT

Start at: 2017-12-12 13:43:10
End at: 2017-12-12 13:43:40

# Below is generated by plot.py at 2017-12-12 17:15:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 19.18 Mbit/s
95th percentile per-packet one-way delay: 64.558 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.03 Mbit/s
95th percentile per-packet one-way delay: 64.350 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 15.22 Mbit/s
95th percentile per-packet one-way delay: 64.705 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 6.24 Mbit/s
95th percentile per-packet one-way delay: 64.549 ms
Loss rate: 0.00%
```


Run 1: Report of LEDBAT — Data Link

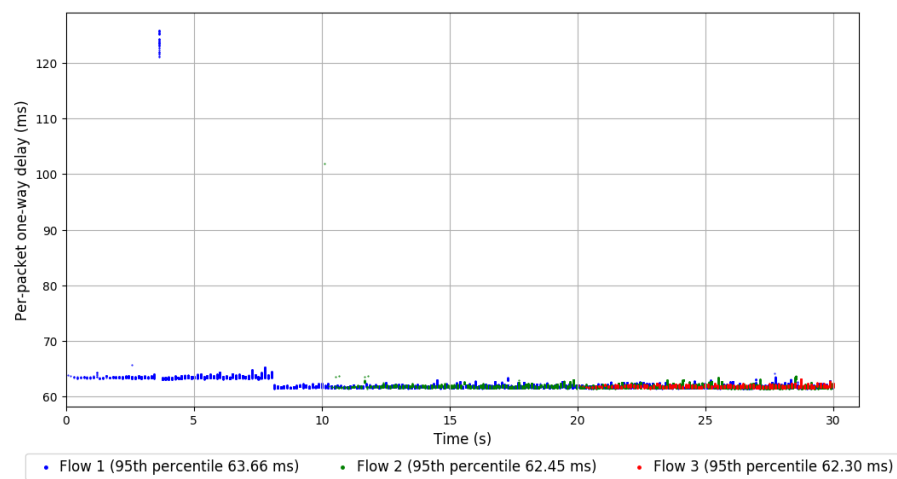
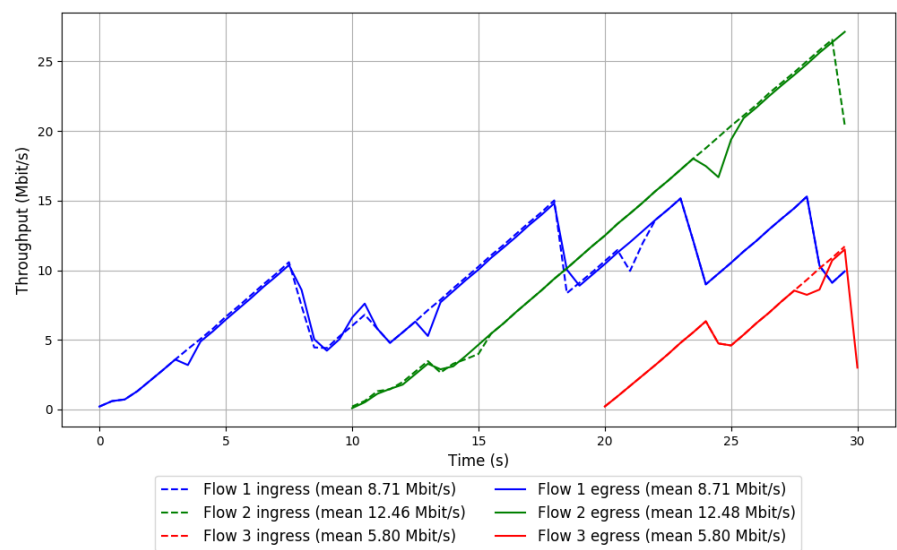


```
Run 2: Statistics of LEDBAT

Start at: 2017-12-12 13:55:30
End at: 2017-12-12 13:56:00

# Below is generated by plot.py at 2017-12-12 17:15:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 18.88 Mbit/s
95th percentile per-packet one-way delay: 63.438 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 8.71 Mbit/s
95th percentile per-packet one-way delay: 63.658 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 12.48 Mbit/s
95th percentile per-packet one-way delay: 62.445 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 5.80 Mbit/s
95th percentile per-packet one-way delay: 62.301 ms
Loss rate: 0.00%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2017-12-12 14:07:54

End at: 2017-12-12 14:08:24

Below is generated by plot.py at 2017-12-12 17:15:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 24.66 Mbit/s

95th percentile per-packet one-way delay: 64.165 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 13.01 Mbit/s

95th percentile per-packet one-way delay: 64.255 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 14.70 Mbit/s

95th percentile per-packet one-way delay: 64.070 ms

Loss rate: 0.00%

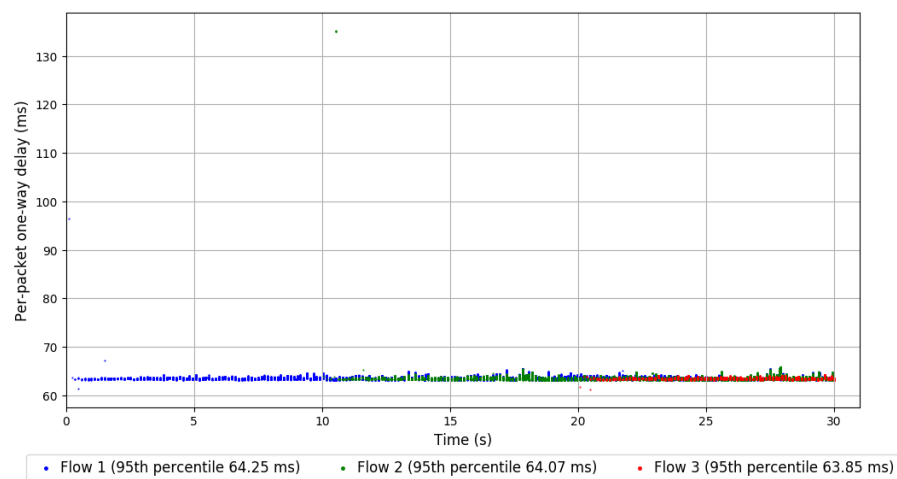
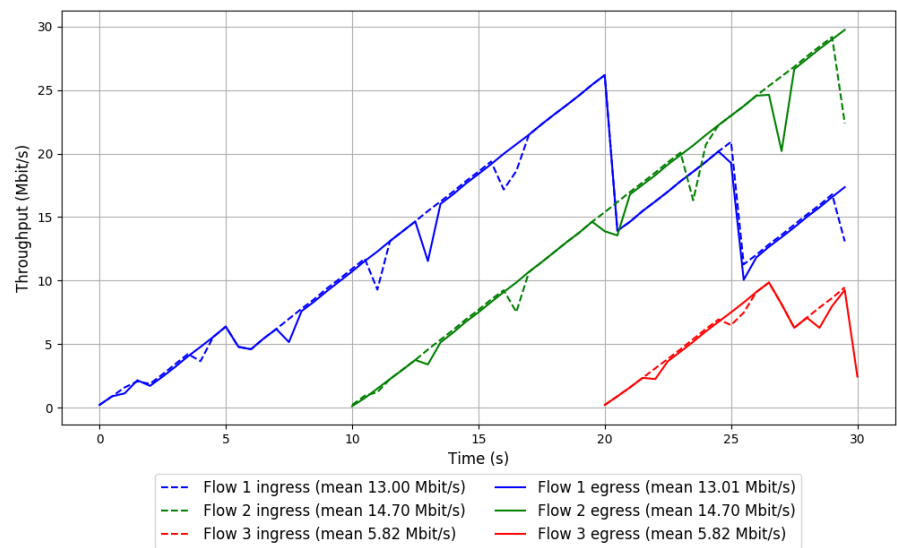
-- Flow 3:

Average throughput: 5.82 Mbit/s

95th percentile per-packet one-way delay: 63.853 ms

Loss rate: 0.00%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2017-12-12 14:20:17

End at: 2017-12-12 14:20:47

Below is generated by plot.py at 2017-12-12 17:15:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 21.76 Mbit/s

95th percentile per-packet one-way delay: 64.414 ms

Loss rate: 0.11%

-- Flow 1:

Average throughput: 10.86 Mbit/s

95th percentile per-packet one-way delay: 64.329 ms

Loss rate: 0.11%

-- Flow 2:

Average throughput: 12.91 Mbit/s

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

Loss rate: 0.15%

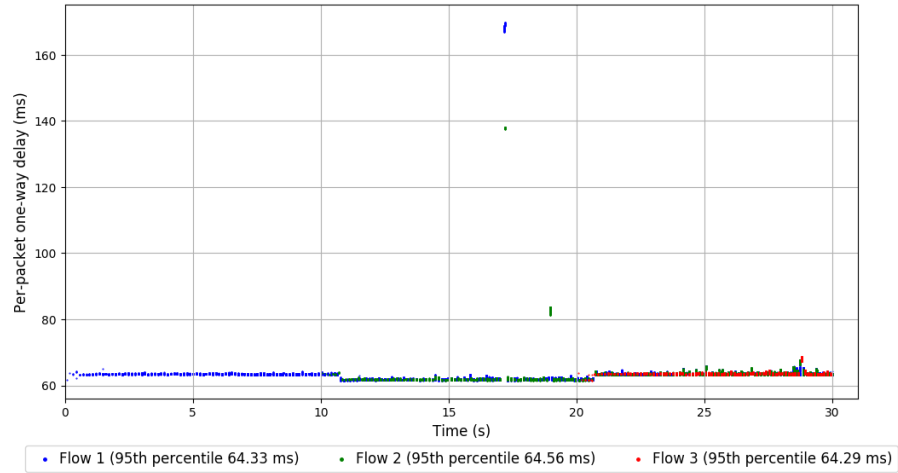
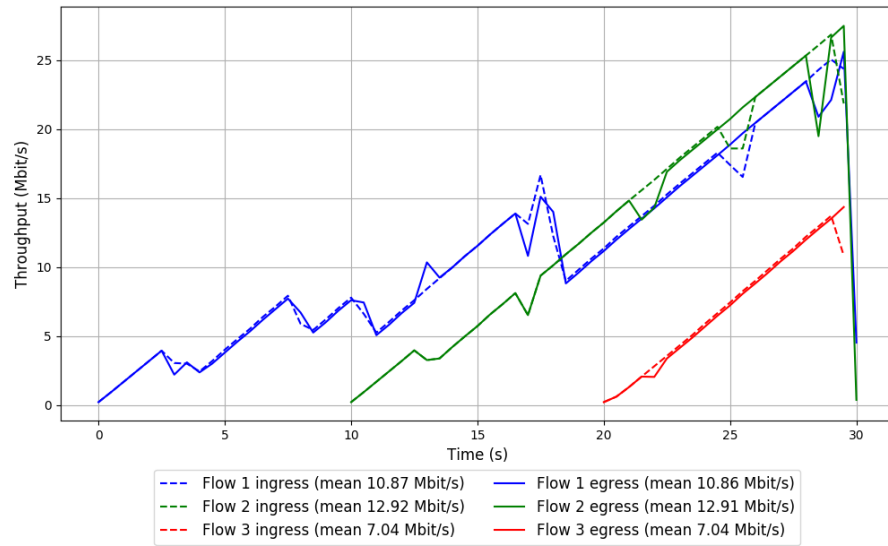
-- Flow 3:

Average throughput: 7.04 Mbit/s

95th percentile per-packet one-way delay: 64.294 ms

Loss rate: 0.00%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2017-12-12 14:32:42

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

Below is generated by plot.py at 2017-12-12 17:15:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 20.54 Mbit/s

95th percentile per-packet one-way delay: 63.343 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 8.30 Mbit/s

95th percentile per-packet one-way delay: 63.527 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 14.92 Mbit/s

95th percentile per-packet one-way delay: 62.766 ms

Loss rate: 0.00%

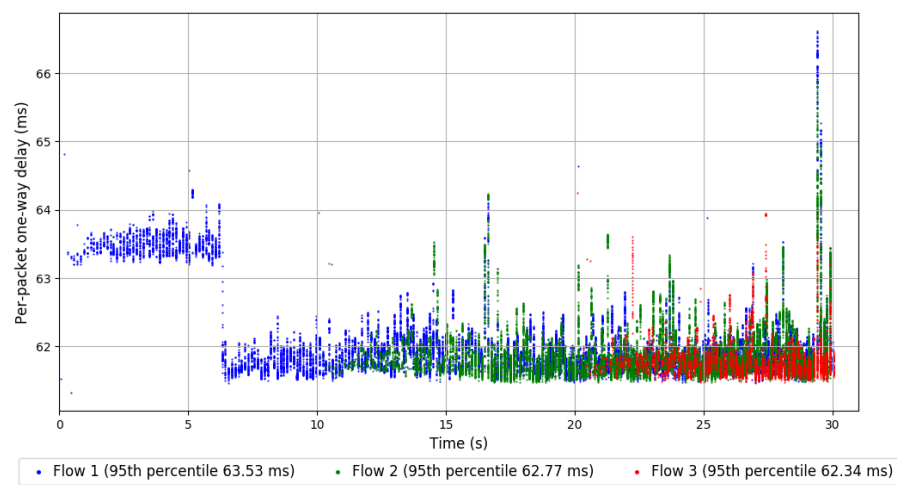
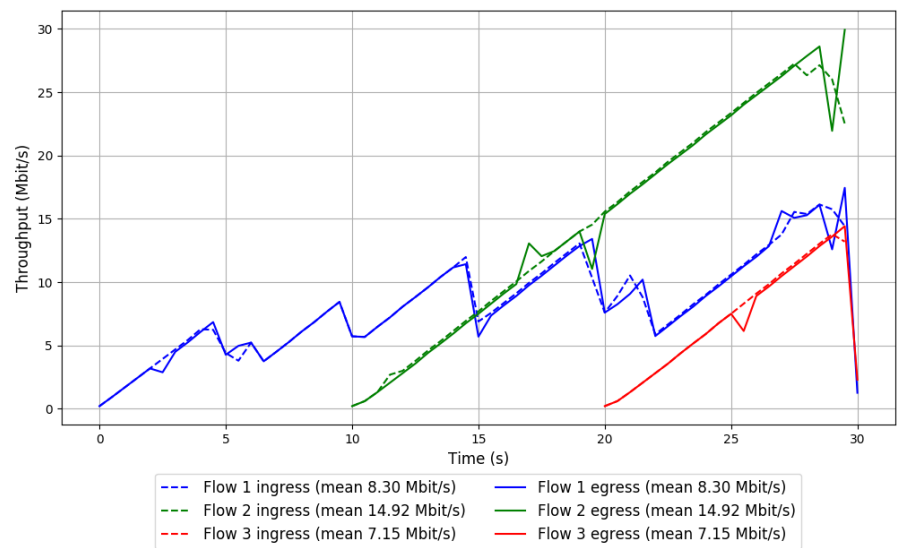
-- Flow 3:

Average throughput: 7.15 Mbit/s

95th percentile per-packet one-way delay: 62.341 ms

Loss rate: 0.00%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2017-12-12 14:45:08

End at: 2017-12-12 14:45:38

Below is generated by plot.py at 2017-12-12 17:15:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 19.73 Mbit/s

95th percentile per-packet one-way delay: 63.019 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 8.54 Mbit/s

95th percentile per-packet one-way delay: 62.709 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 14.89 Mbit/s

95th percentile per-packet one-way delay: 63.274 ms

Loss rate: 0.00%

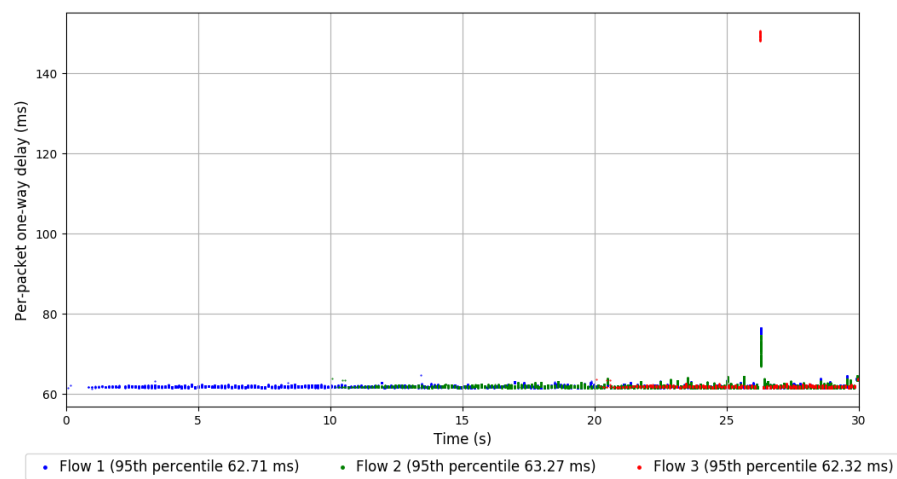
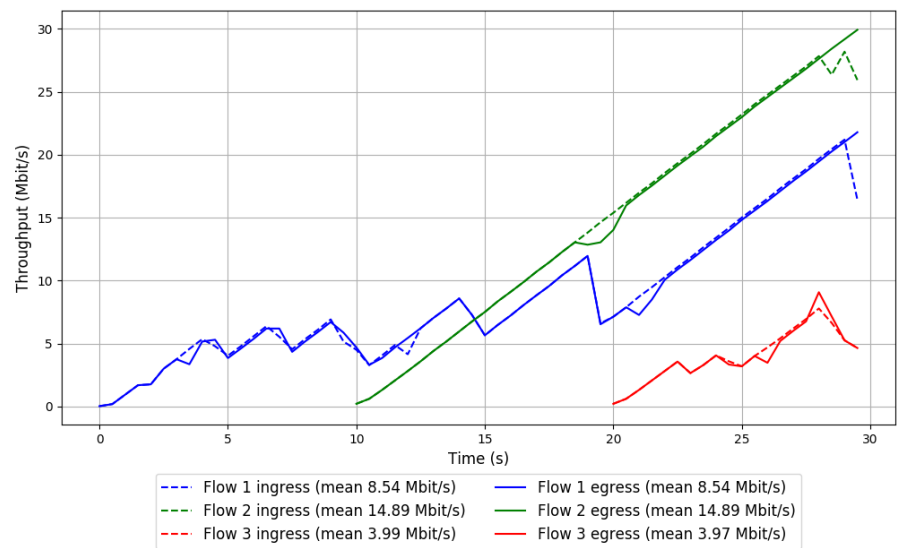
-- Flow 3:

Average throughput: 3.97 Mbit/s

95th percentile per-packet one-way delay: 62.318 ms

Loss rate: 0.33%

Run 6: Report of LEDBAT — Data Link

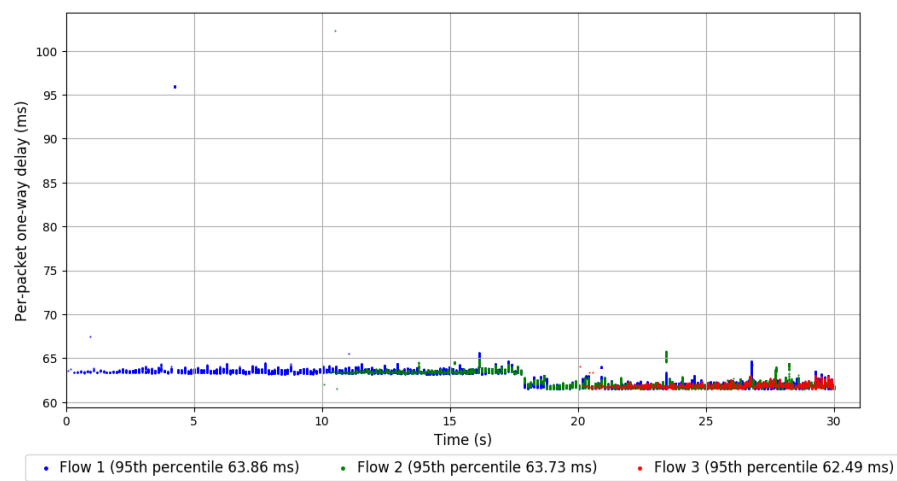
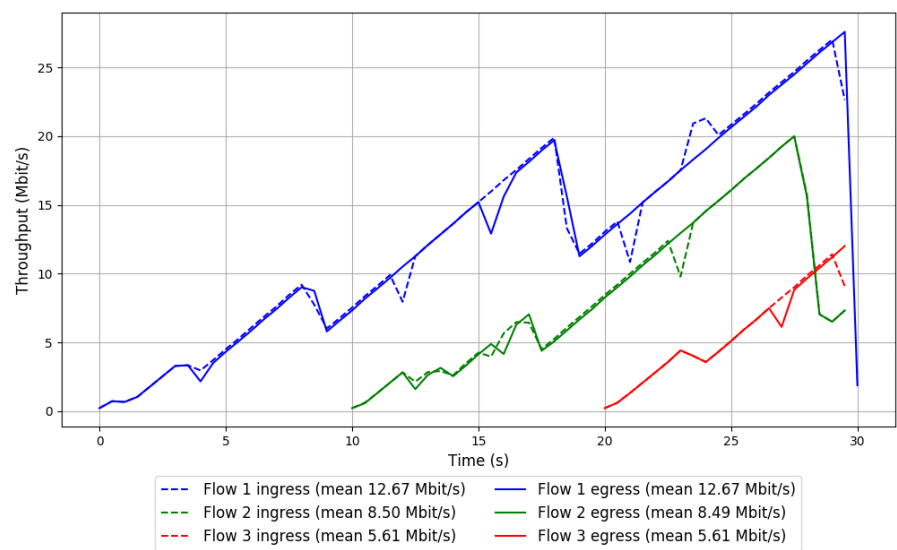


```
Run 7: Statistics of LEDBAT

Start at: 2017-12-12 14:57:30
End at: 2017-12-12 14:58:00

# Below is generated by plot.py at 2017-12-12 17:15:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 20.16 Mbit/s
95th percentile per-packet one-way delay: 63.805 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 12.67 Mbit/s
95th percentile per-packet one-way delay: 63.863 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 8.49 Mbit/s
95th percentile per-packet one-way delay: 63.727 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 5.61 Mbit/s
95th percentile per-packet one-way delay: 62.486 ms
Loss rate: 0.00%
```

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2017-12-12 15:09:49

End at: 2017-12-12 15:10:19

Below is generated by plot.py at 2017-12-12 17:15:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 23.45 Mbit/s

95th percentile per-packet one-way delay: 64.312 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 13.41 Mbit/s

95th percentile per-packet one-way delay: 64.442 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 11.25 Mbit/s

95th percentile per-packet one-way delay: 64.104 ms

Loss rate: 0.00%

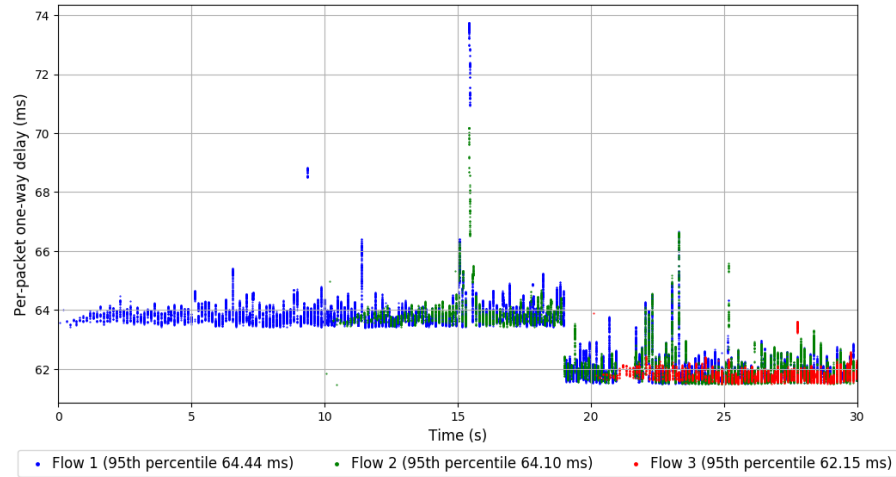
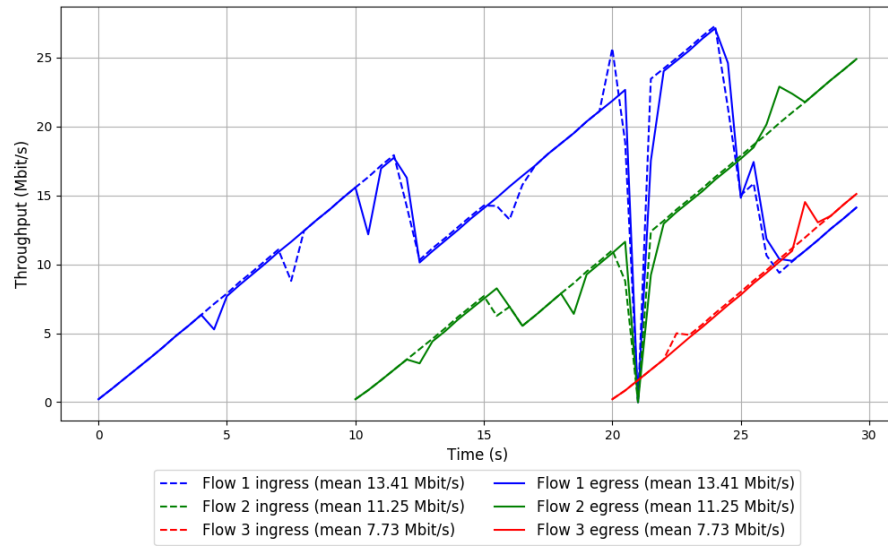
-- Flow 3:

Average throughput: 7.73 Mbit/s

95th percentile per-packet one-way delay: 62.150 ms

Loss rate: 0.00%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2017-12-12 15:22:08

End at: 2017-12-12 15:22:38

Below is generated by plot.py at 2017-12-12 17:15:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 20.60 Mbit/s

95th percentile per-packet one-way delay: 64.595 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 11.71 Mbit/s

95th percentile per-packet one-way delay: 64.419 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 10.20 Mbit/s

95th percentile per-packet one-way delay: 64.824 ms

Loss rate: 0.00%

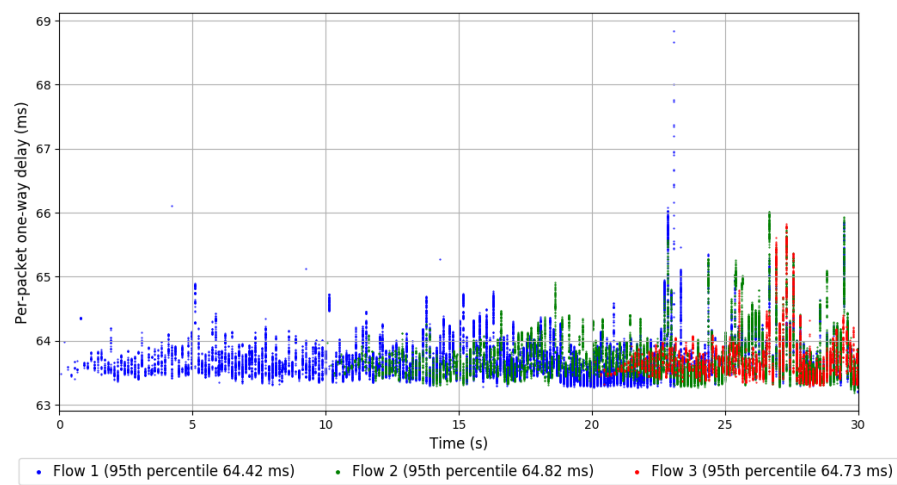
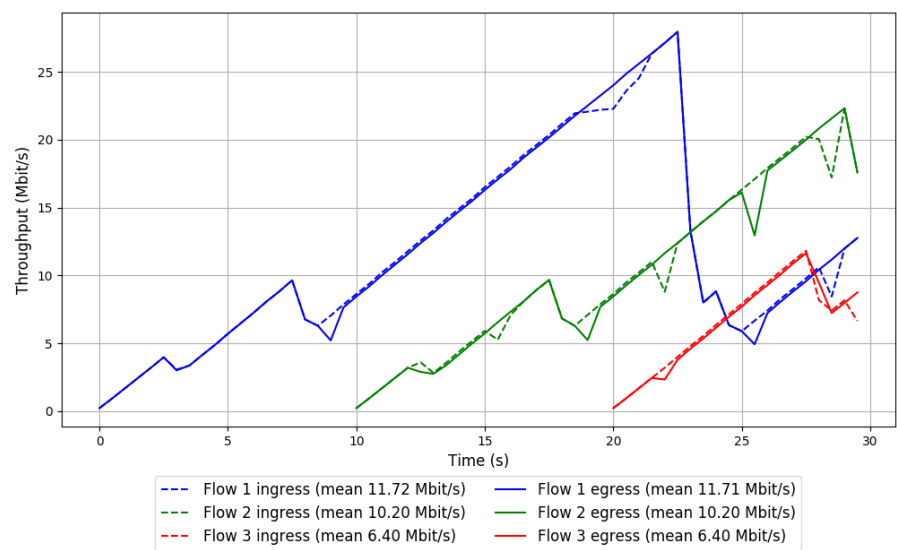
-- Flow 3:

Average throughput: 6.40 Mbit/s

95th percentile per-packet one-way delay: 64.732 ms

Loss rate: 0.00%

Run 9: Report of LEDBAT — Data Link

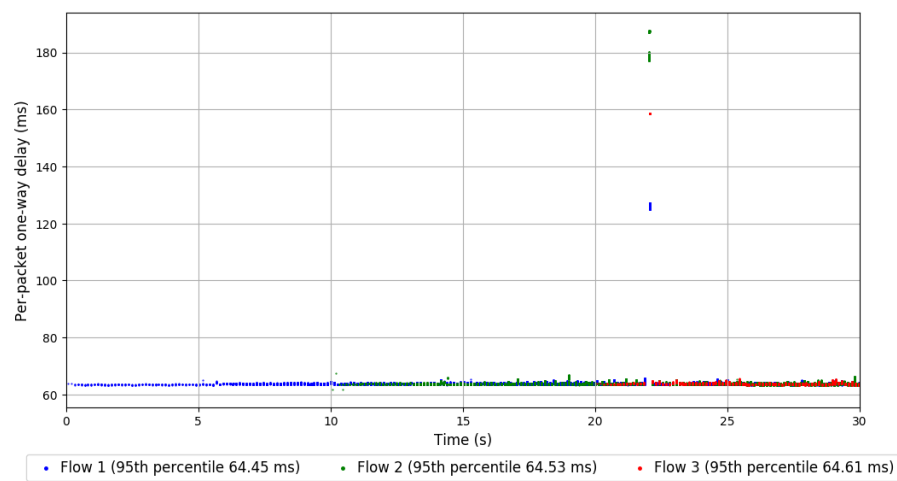
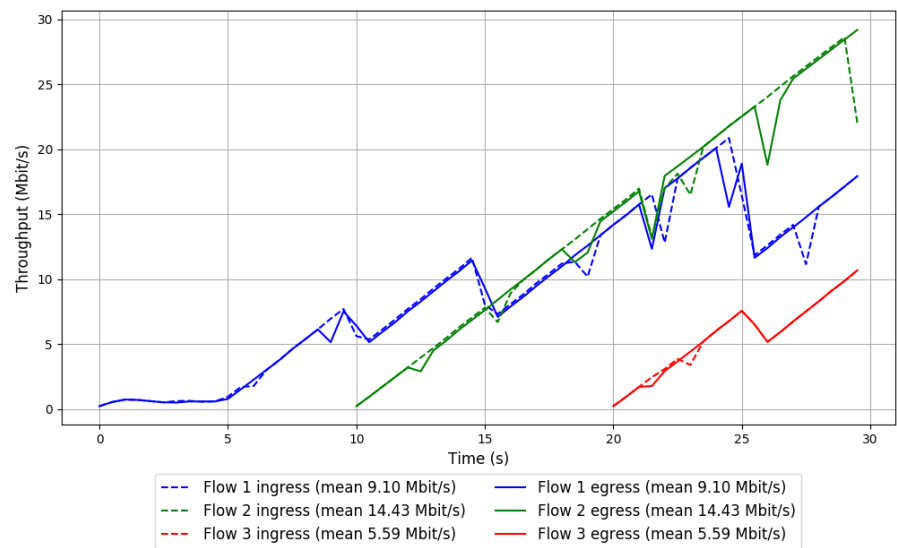


```
Run 10: Statistics of LEDBAT

Start at: 2017-12-12 15:34:12
End at: 2017-12-12 15:34:42

# Below is generated by plot.py at 2017-12-12 17:15:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 20.54 Mbit/s
95th percentile per-packet one-way delay: 64.508 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 9.10 Mbit/s
95th percentile per-packet one-way delay: 64.453 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 14.43 Mbit/s
95th percentile per-packet one-way delay: 64.533 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 5.59 Mbit/s
95th percentile per-packet one-way delay: 64.614 ms
Loss rate: 0.00%
```

Run 10: Report of LEDBAT — Data Link

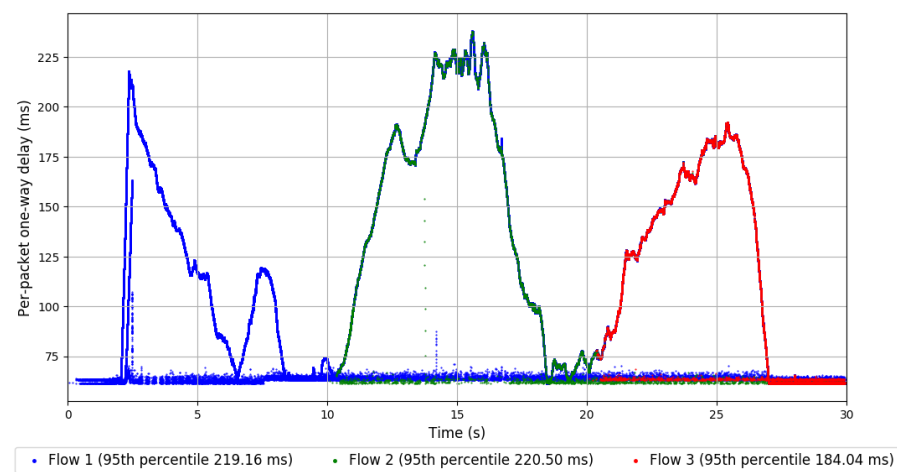
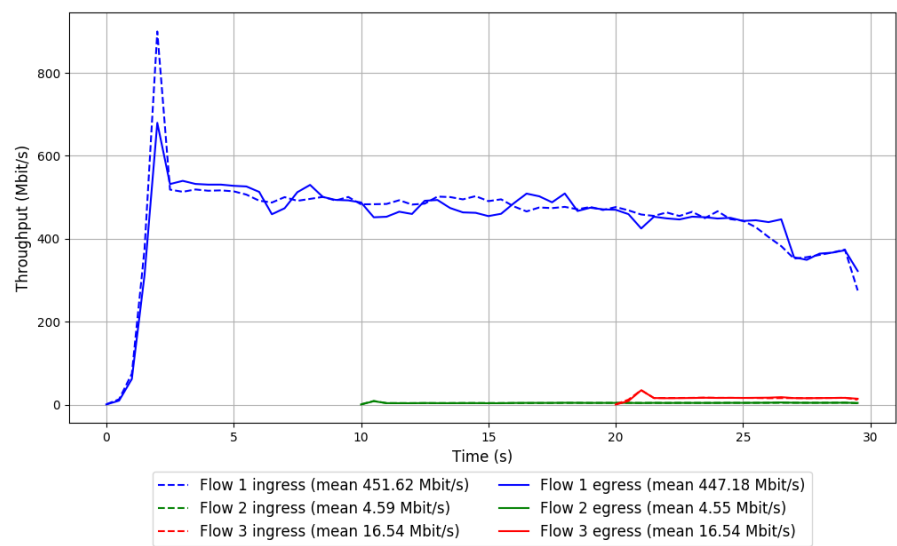


```
Run 1: Statistics of PCC

Start at: 2017-12-12 13:47:20
End at: 2017-12-12 13:47:50

# Below is generated by plot.py at 2017-12-12 17:20:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 455.65 Mbit/s
95th percentile per-packet one-way delay: 218.974 ms
Loss rate: 0.97%
-- Flow 1:
Average throughput: 447.18 Mbit/s
95th percentile per-packet one-way delay: 219.157 ms
Loss rate: 0.98%
-- Flow 2:
Average throughput: 4.55 Mbit/s
95th percentile per-packet one-way delay: 220.502 ms
Loss rate: 0.83%
-- Flow 3:
Average throughput: 16.54 Mbit/s
95th percentile per-packet one-way delay: 184.037 ms
Loss rate: 0.00%
```

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2017-12-12 13:59:48

End at: 2017-12-12 14:00:18

Below is generated by plot.py at 2017-12-12 17:20:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 403.67 Mbit/s

95th percentile per-packet one-way delay: 211.327 ms

Loss rate: 1.60%

-- Flow 1:

Average throughput: 246.16 Mbit/s

95th percentile per-packet one-way delay: 210.406 ms

Loss rate: 1.26%

-- Flow 2:

Average throughput: 235.98 Mbit/s

95th percentile per-packet one-way delay: 212.689 ms

Loss rate: 2.13%

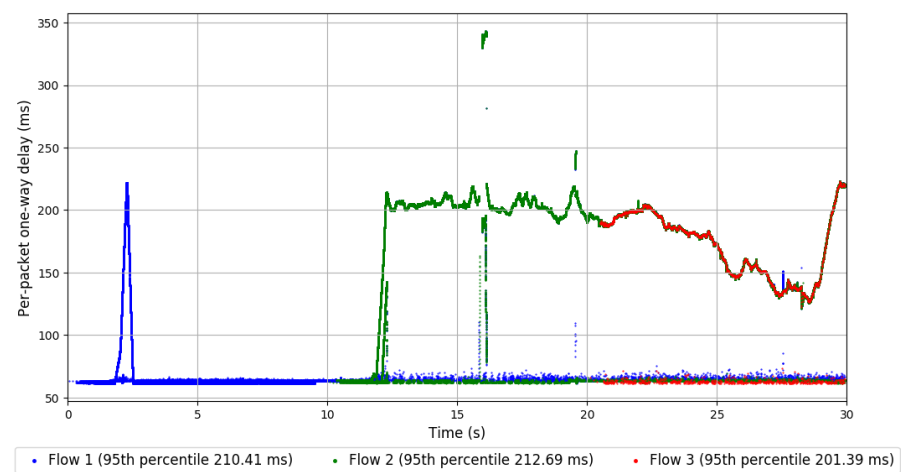
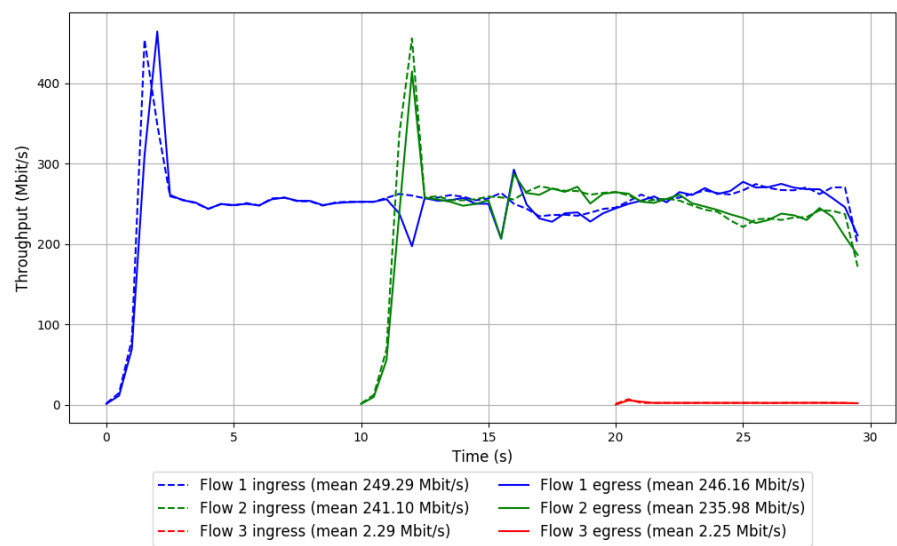
-- Flow 3:

Average throughput: 2.25 Mbit/s

95th percentile per-packet one-way delay: 201.390 ms

Loss rate: 1.50%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

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

End at: 2017-12-12 14:12:40

Below is generated by plot.py at 2017-12-12 17:20:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 454.30 Mbit/s

95th percentile per-packet one-way delay: 229.951 ms

Loss rate: 3.12%

-- Flow 1:

Average throughput: 406.00 Mbit/s

95th percentile per-packet one-way delay: 229.051 ms

Loss rate: 3.10%

-- Flow 2:

Average throughput: 65.04 Mbit/s

95th percentile per-packet one-way delay: 232.599 ms

Loss rate: 3.20%

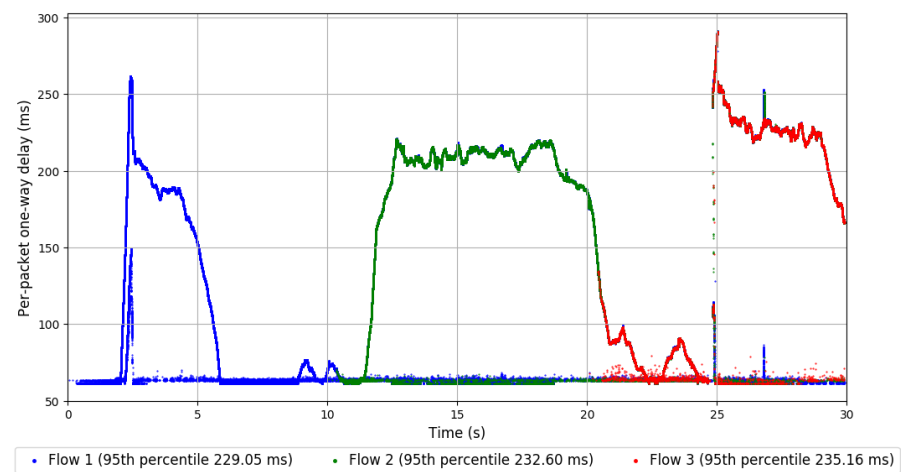
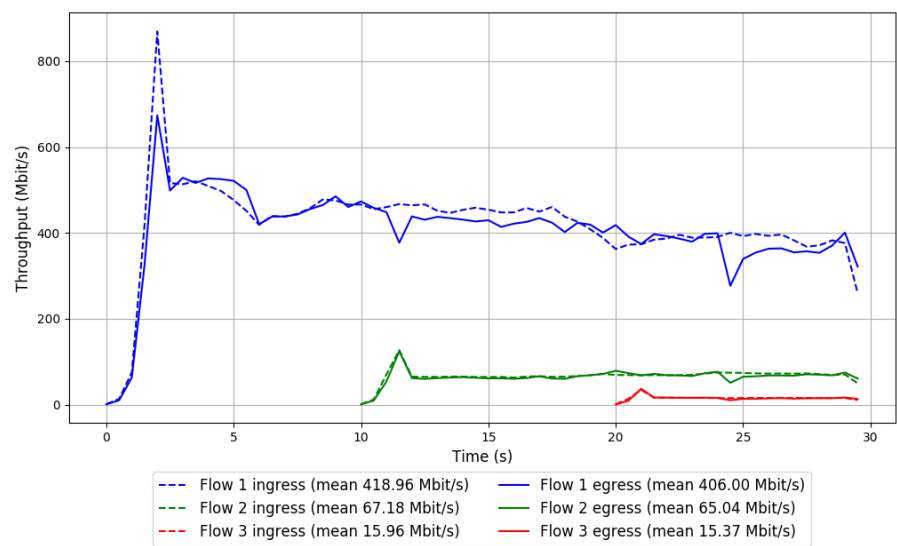
-- Flow 3:

Average throughput: 15.37 Mbit/s

95th percentile per-packet one-way delay: 235.156 ms

Loss rate: 3.70%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2017-12-12 14:24:32

End at: 2017-12-12 14:25:02

Below is generated by plot.py at 2017-12-12 17:20:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 462.14 Mbit/s

95th percentile per-packet one-way delay: 216.500 ms

Loss rate: 1.54%

-- Flow 1:

Average throughput: 438.60 Mbit/s

95th percentile per-packet one-way delay: 216.715 ms

Loss rate: 1.59%

-- Flow 2:

Average throughput: 34.20 Mbit/s

95th percentile per-packet one-way delay: 210.524 ms

Loss rate: 0.51%

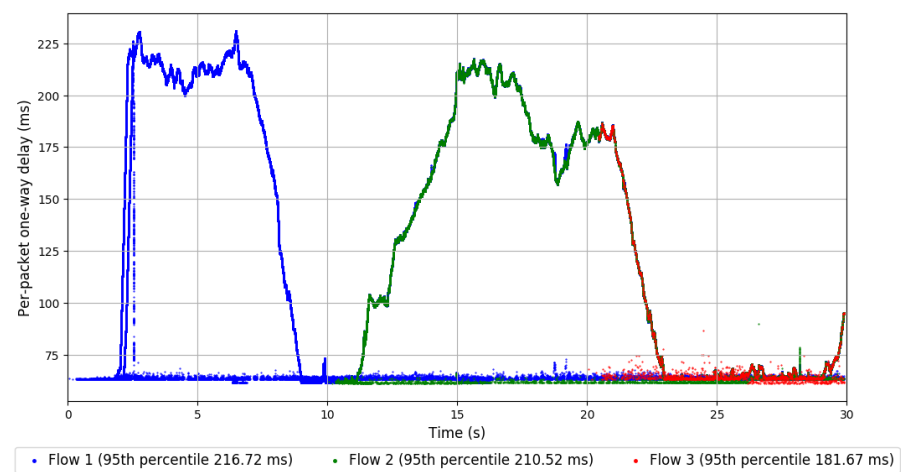
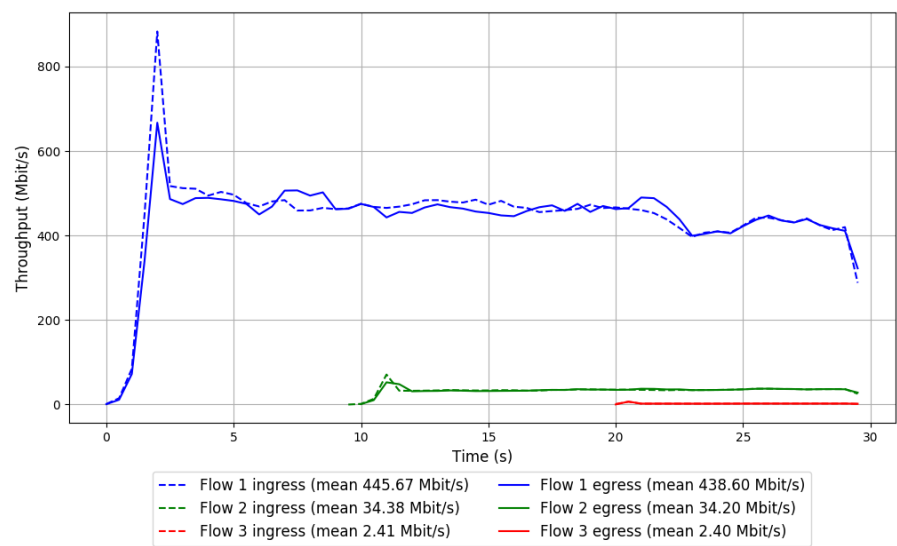
-- Flow 3:

Average throughput: 2.40 Mbit/s

95th percentile per-packet one-way delay: 181.673 ms

Loss rate: 0.30%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2017-12-12 14:36:59

End at: 2017-12-12 14:37:29

Below is generated by plot.py at 2017-12-12 17:20:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 459.18 Mbit/s

95th percentile per-packet one-way delay: 210.005 ms

Loss rate: 0.54%

-- Flow 1:

Average throughput: 447.08 Mbit/s

95th percentile per-packet one-way delay: 210.091 ms

Loss rate: 0.55%

-- Flow 2:

Average throughput: 2.37 Mbit/s

95th percentile per-packet one-way delay: 210.009 ms

Loss rate: 0.48%

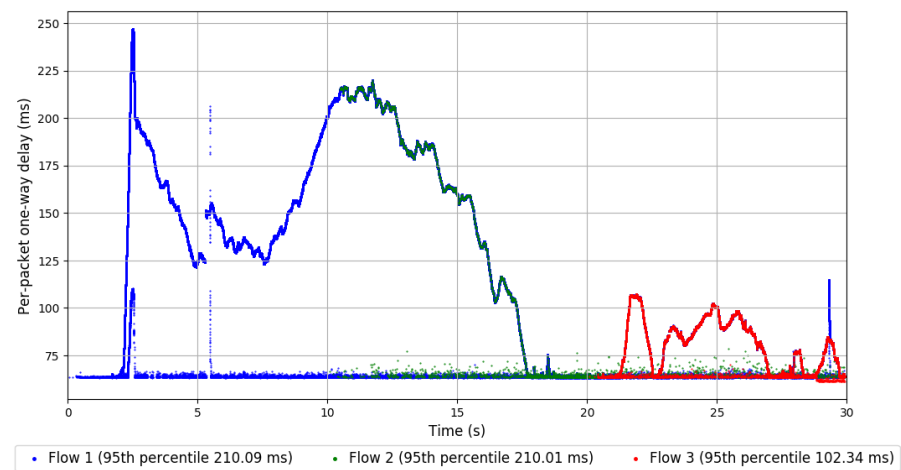
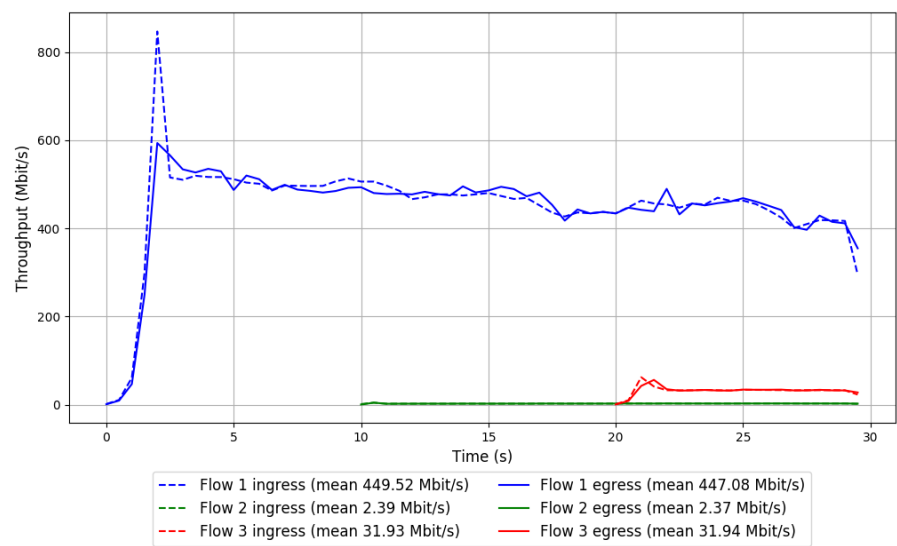
-- Flow 3:

Average throughput: 31.94 Mbit/s

95th percentile per-packet one-way delay: 102.342 ms

Loss rate: 0.01%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2017-12-12 14:49:24

End at: 2017-12-12 14:49:54

Below is generated by plot.py at 2017-12-12 17:21:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 474.22 Mbit/s

95th percentile per-packet one-way delay: 209.675 ms

Loss rate: 1.46%

-- Flow 1:

Average throughput: 452.35 Mbit/s

95th percentile per-packet one-way delay: 209.877 ms

Loss rate: 1.42%

-- Flow 2:

Average throughput: 3.98 Mbit/s

95th percentile per-packet one-way delay: 209.865 ms

Loss rate: 1.42%

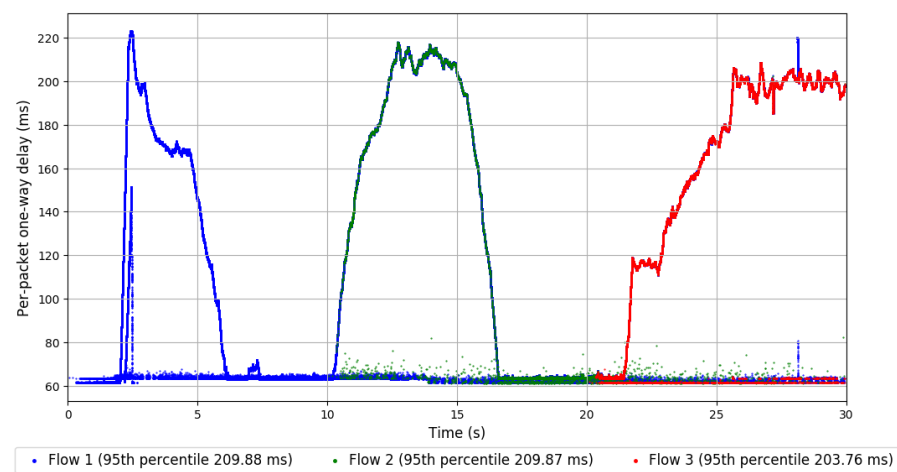
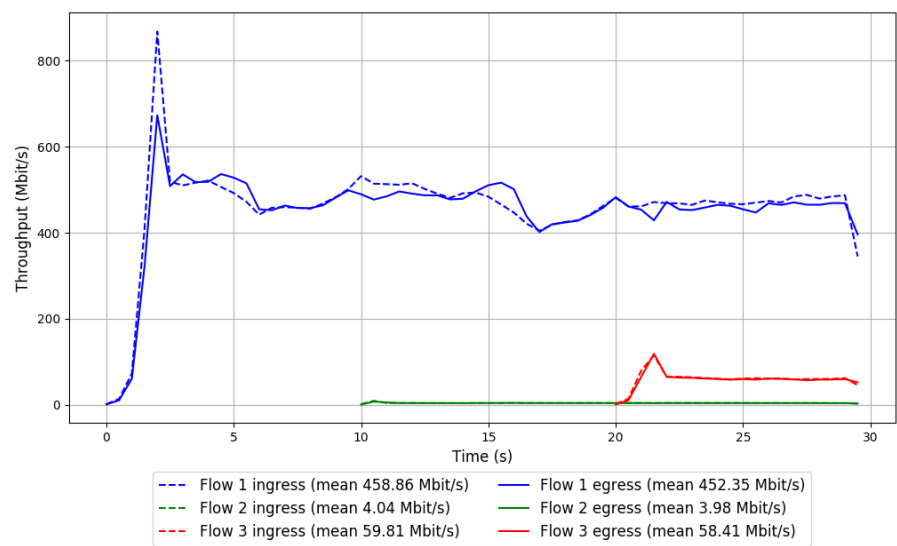
-- Flow 3:

Average throughput: 58.41 Mbit/s

95th percentile per-packet one-way delay: 203.761 ms

Loss rate: 2.33%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2017-12-12 15:01:46

End at: 2017-12-12 15:02:16

Below is generated by plot.py at 2017-12-12 17:22:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 400.66 Mbit/s

95th percentile per-packet one-way delay: 212.889 ms

Loss rate: 0.83%

-- Flow 1:

Average throughput: 313.70 Mbit/s

95th percentile per-packet one-way delay: 212.619 ms

Loss rate: 0.80%

-- Flow 2:

Average throughput: 122.80 Mbit/s

95th percentile per-packet one-way delay: 214.414 ms

Loss rate: 0.98%

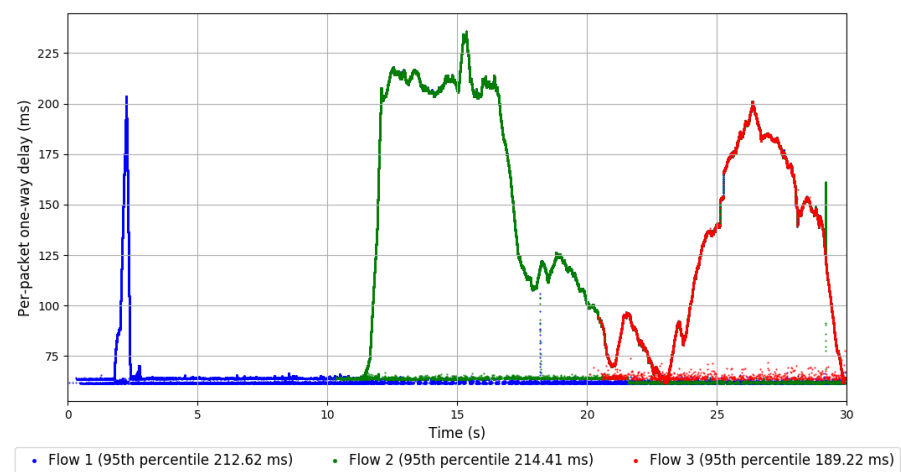
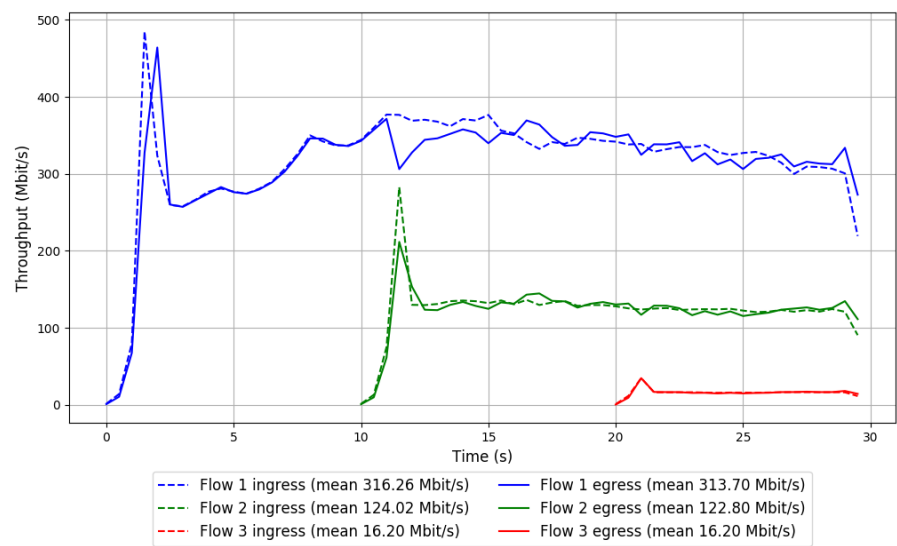
-- Flow 3:

Average throughput: 16.20 Mbit/s

95th percentile per-packet one-way delay: 189.220 ms

Loss rate: 0.00%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2017-12-12 15:14:04

End at: 2017-12-12 15:14:34

Below is generated by plot.py at 2017-12-12 17:26:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 507.39 Mbit/s

95th percentile per-packet one-way delay: 193.933 ms

Loss rate: 0.59%

-- Flow 1:

Average throughput: 485.38 Mbit/s

95th percentile per-packet one-way delay: 194.233 ms

Loss rate: 0.60%

-- Flow 2:

Average throughput: 2.30 Mbit/s

95th percentile per-packet one-way delay: 161.203 ms

Loss rate: 0.18%

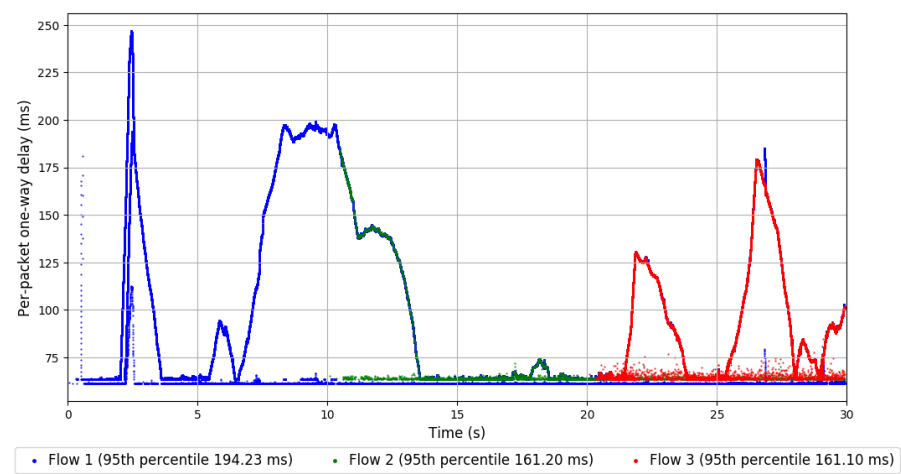
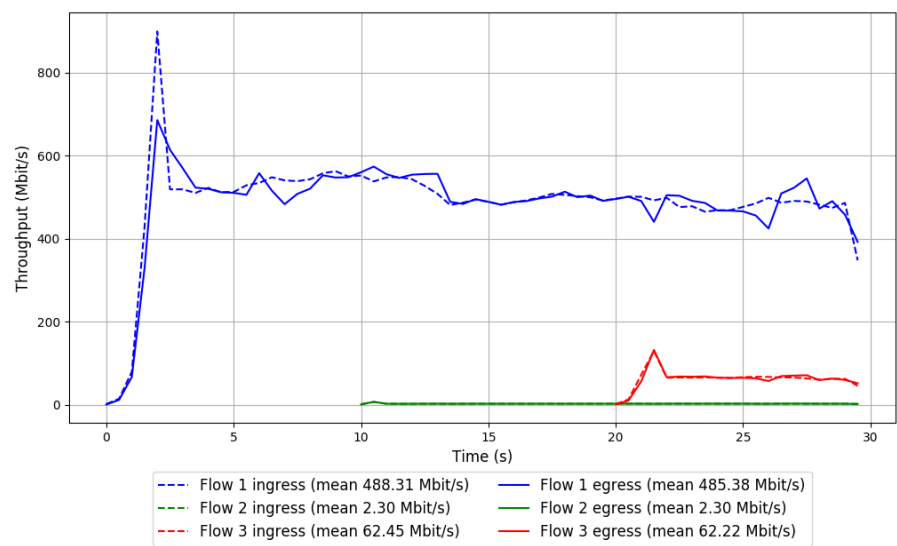
-- Flow 3:

Average throughput: 62.22 Mbit/s

95th percentile per-packet one-way delay: 161.100 ms

Loss rate: 0.41%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2017-12-12 15:26:13

End at: 2017-12-12 15:26:43

Below is generated by plot.py at 2017-12-12 17:27:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 403.85 Mbit/s

95th percentile per-packet one-way delay: 197.764 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 361.43 Mbit/s

95th percentile per-packet one-way delay: 197.491 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 61.72 Mbit/s

95th percentile per-packet one-way delay: 198.898 ms

Loss rate: 0.03%

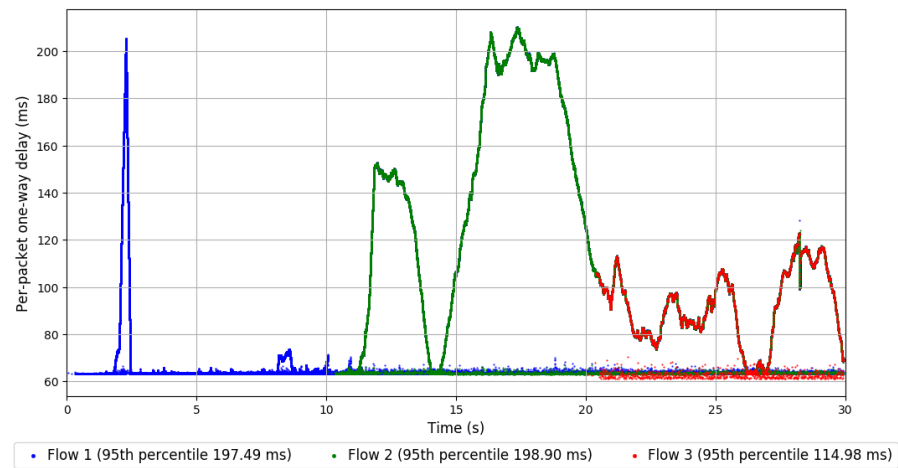
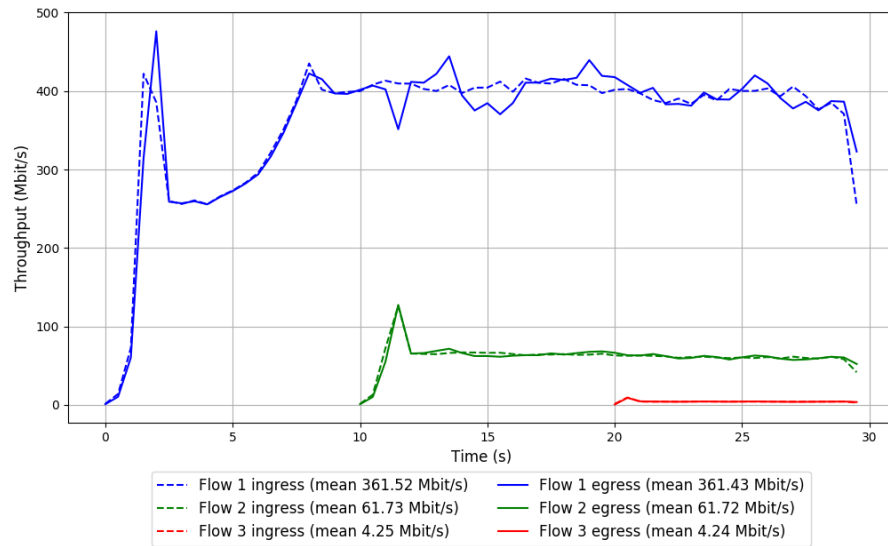
-- Flow 3:

Average throughput: 4.24 Mbit/s

95th percentile per-packet one-way delay: 114.976 ms

Loss rate: 0.06%

Run 9: Report of PCC — Data Link

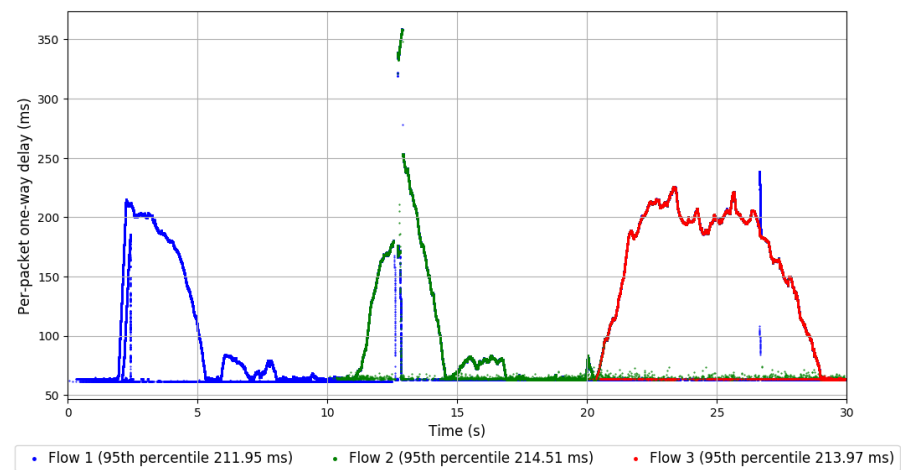
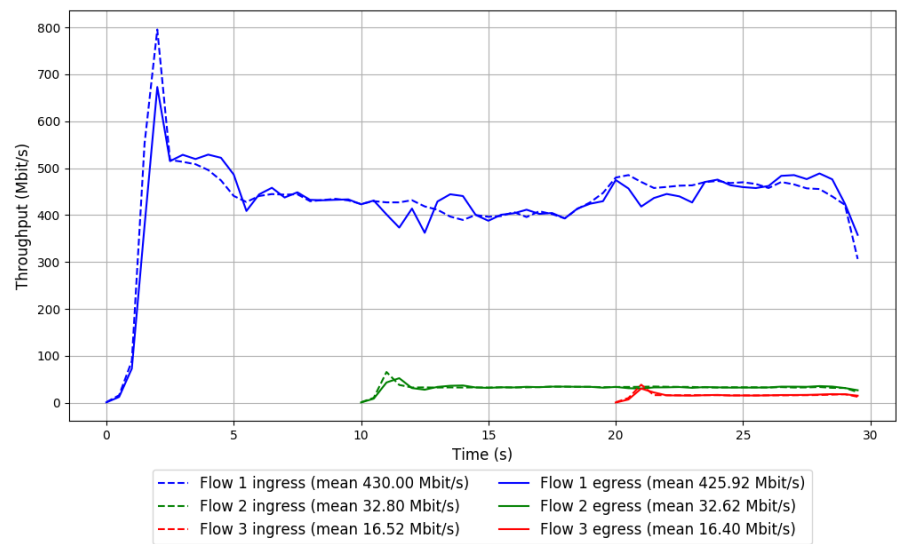


```
Run 10: Statistics of PCC

Start at: 2017-12-12 15:38:22
End at: 2017-12-12 15:38:52

# Below is generated by plot.py at 2017-12-12 17:29:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 453.00 Mbit/s
95th percentile per-packet one-way delay: 212.053 ms
Loss rate: 0.93%
-- Flow 1:
Average throughput: 425.92 Mbit/s
95th percentile per-packet one-way delay: 211.951 ms
Loss rate: 0.95%
-- Flow 2:
Average throughput: 32.62 Mbit/s
95th percentile per-packet one-way delay: 214.509 ms
Loss rate: 0.57%
-- Flow 3:
Average throughput: 16.40 Mbit/s
95th percentile per-packet one-way delay: 213.975 ms
Loss rate: 0.75%
```

Run 10: Report of PCC — Data Link

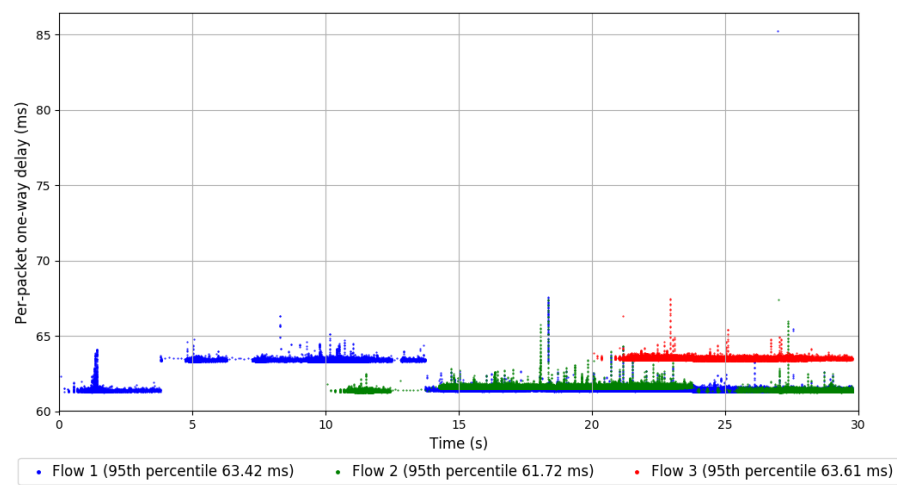
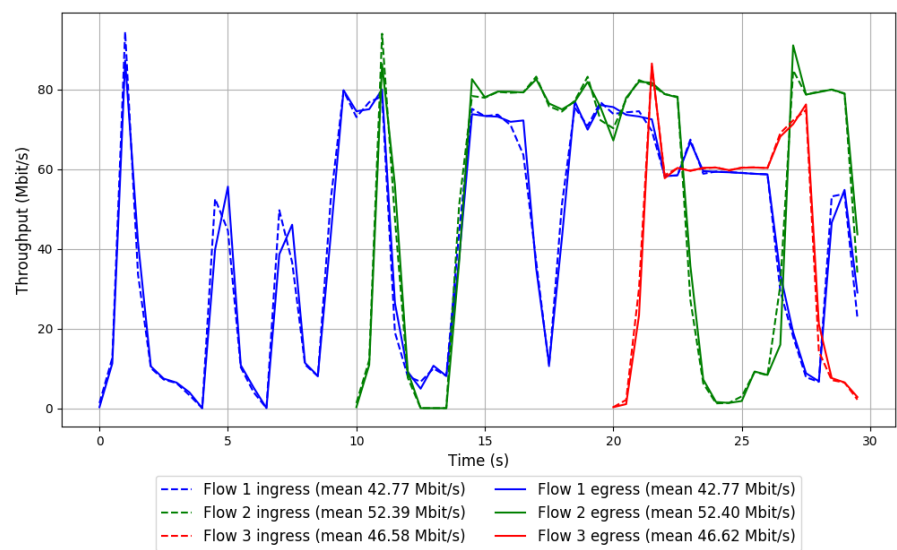


```
Run 1: Statistics of QUIC Cubic

Start at: 2017-12-12 13:40:34
End at: 2017-12-12 13:41:04

# Below is generated by plot.py at 2017-12-12 17:29:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.73 Mbit/s
95th percentile per-packet one-way delay: 63.502 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 42.77 Mbit/s
95th percentile per-packet one-way delay: 63.417 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 52.40 Mbit/s
95th percentile per-packet one-way delay: 61.717 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 46.62 Mbit/s
95th percentile per-packet one-way delay: 63.609 ms
Loss rate: 0.00%
```


Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2017-12-12 13:52:54

End at: 2017-12-12 13:53:24

Below is generated by plot.py at 2017-12-12 17:29:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 104.74 Mbit/s

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

Loss rate: 0.09%

-- Flow 1:

Average throughput: 52.17 Mbit/s

95th percentile per-packet one-way delay: 63.660 ms

Loss rate: 0.17%

-- Flow 2:

Average throughput: 66.87 Mbit/s

95th percentile per-packet one-way delay: 63.346 ms

Loss rate: 0.00%

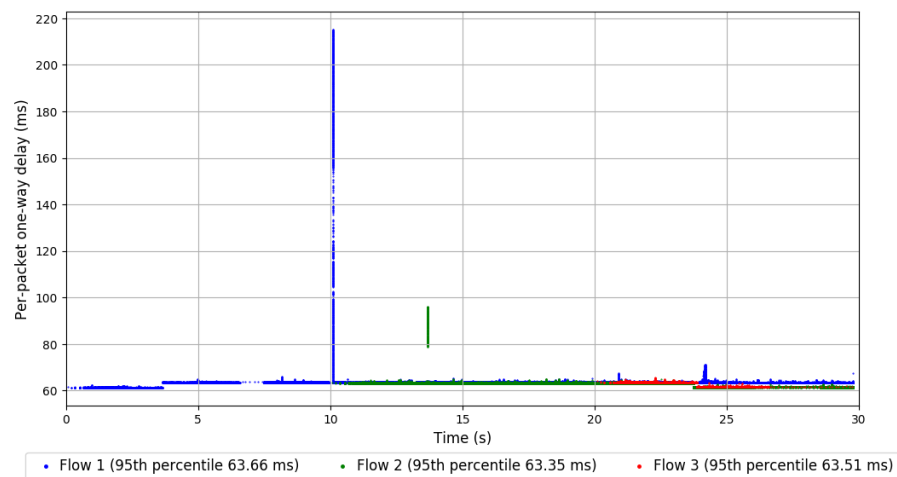
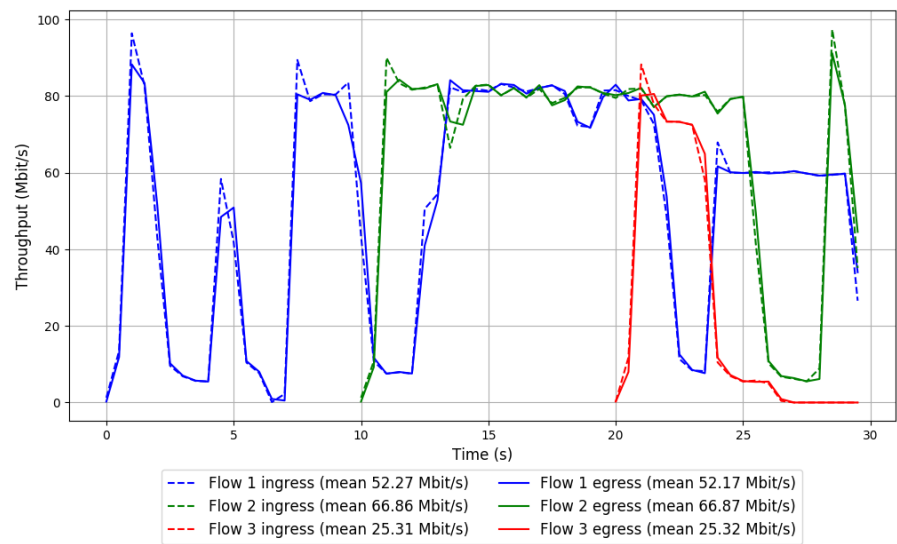
-- Flow 3:

Average throughput: 25.32 Mbit/s

95th percentile per-packet one-way delay: 63.513 ms

Loss rate: 0.00%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2017-12-12 14:05:16

End at: 2017-12-12 14:05:46

Below is generated by plot.py at 2017-12-12 17:29:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 125.54 Mbit/s

95th percentile per-packet one-way delay: 63.604 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 71.62 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 53.28 Mbit/s

95th percentile per-packet one-way delay: 63.511 ms

Loss rate: 0.00%

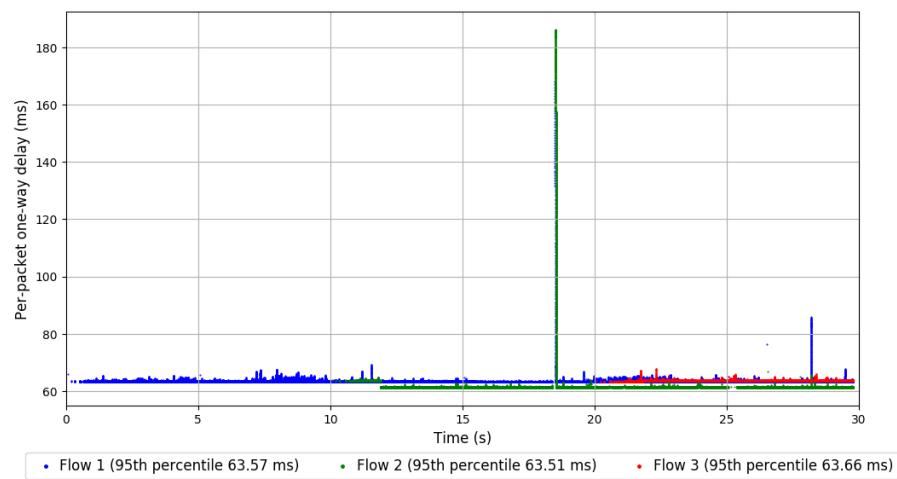
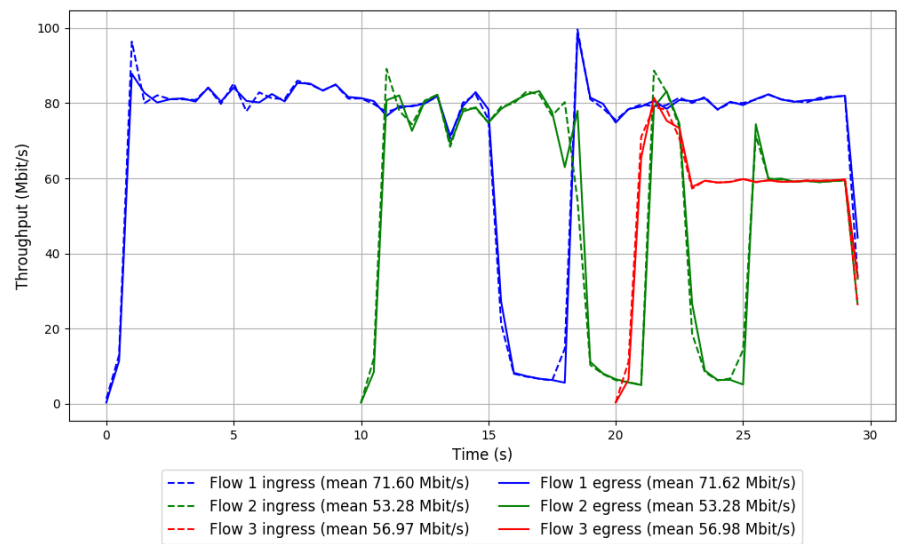
-- Flow 3:

Average throughput: 56.98 Mbit/s

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

Loss rate: 0.00%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2017-12-12 14:17:45

End at: 2017-12-12 14:18:15

Below is generated by plot.py at 2017-12-12 17:29:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.39 Mbit/s

95th percentile per-packet one-way delay: 63.589 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 44.30 Mbit/s

95th percentile per-packet one-way delay: 63.612 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 53.18 Mbit/s

95th percentile per-packet one-way delay: 63.375 ms

Loss rate: 0.00%

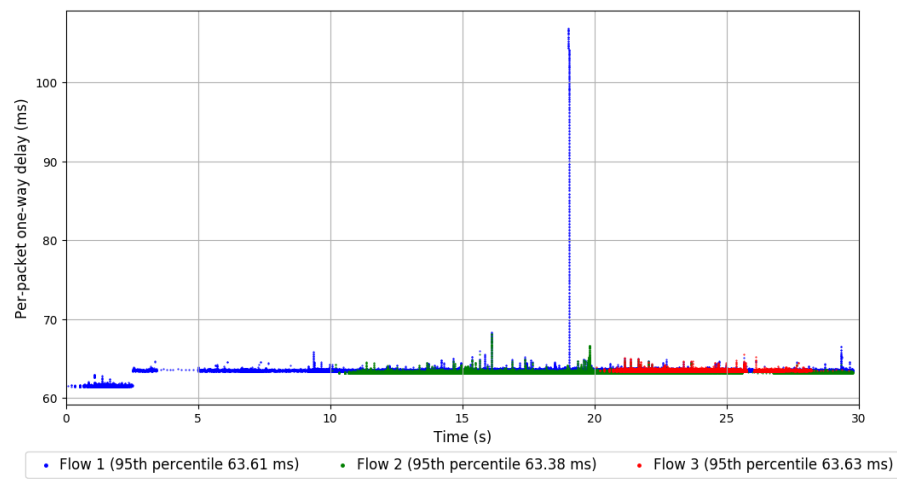
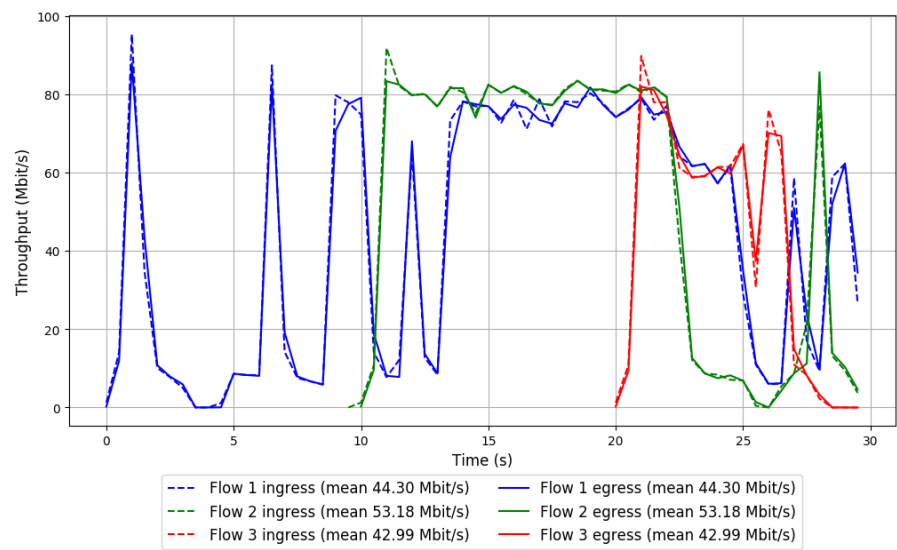
-- Flow 3:

Average throughput: 42.99 Mbit/s

95th percentile per-packet one-way delay: 63.627 ms

Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2017-12-12 14:30:04

End at: 2017-12-12 14:30:34

Below is generated by plot.py at 2017-12-12 17:29:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.74 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 40.53 Mbit/s

95th percentile per-packet one-way delay: 63.643 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 55.76 Mbit/s

95th percentile per-packet one-way delay: 63.306 ms

Loss rate: 0.00%

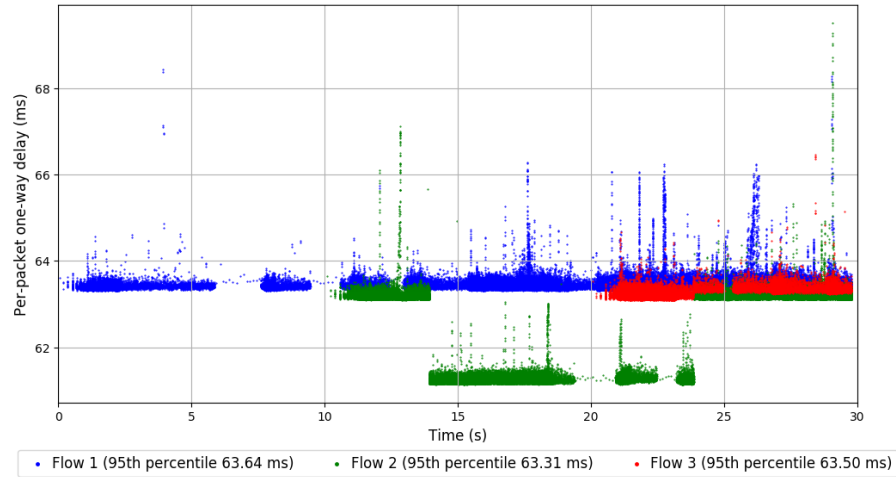
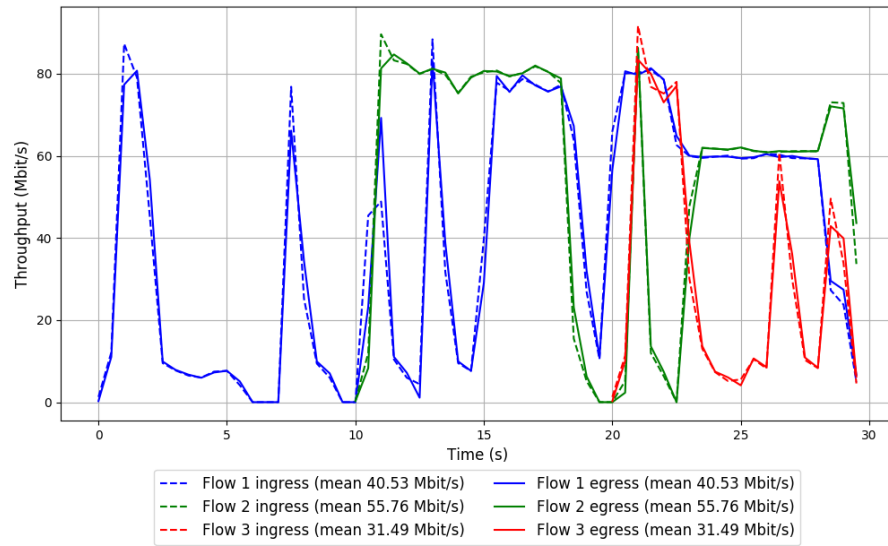
-- Flow 3:

Average throughput: 31.49 Mbit/s

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

Loss rate: 0.00%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2017-12-12 14:42:33

End at: 2017-12-12 14:43:03

Below is generated by plot.py at 2017-12-12 17:29:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.56 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 46.96 Mbit/s

95th percentile per-packet one-way delay: 61.452 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 51.78 Mbit/s

95th percentile per-packet one-way delay: 63.653 ms

Loss rate: 0.00%

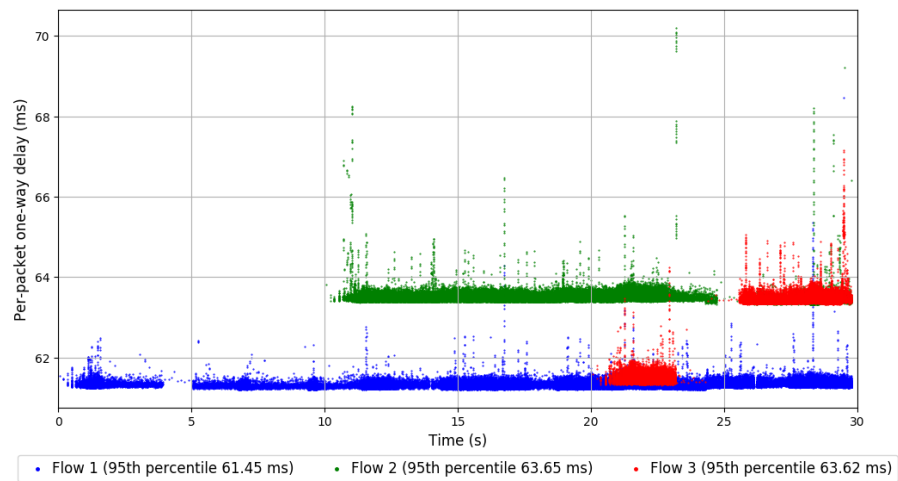
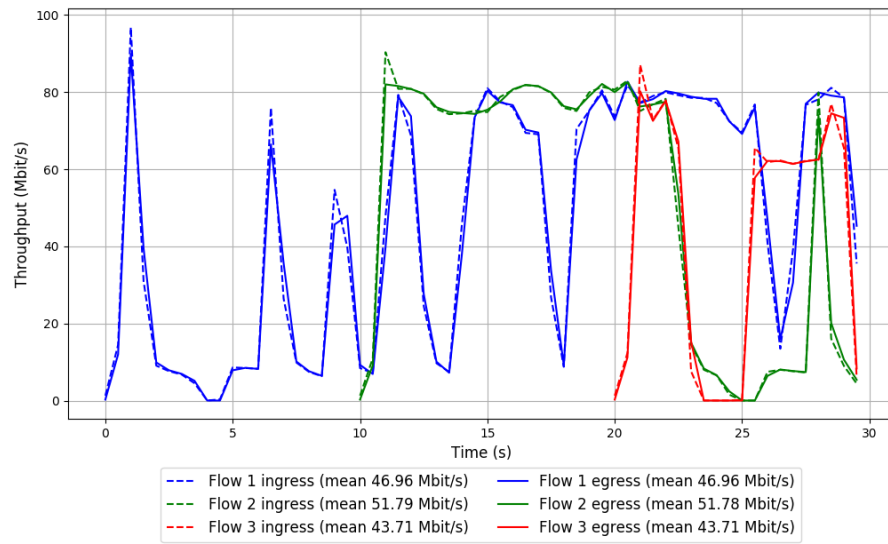
-- Flow 3:

Average throughput: 43.71 Mbit/s

95th percentile per-packet one-way delay: 63.618 ms

Loss rate: 0.00%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2017-12-12 14:54:59

End at: 2017-12-12 14:55:29

Below is generated by plot.py at 2017-12-12 17:29:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 98.61 Mbit/s

95th percentile per-packet one-way delay: 63.412 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 54.23 Mbit/s

95th percentile per-packet one-way delay: 63.459 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 61.05 Mbit/s

95th percentile per-packet one-way delay: 61.438 ms

Loss rate: 0.00%

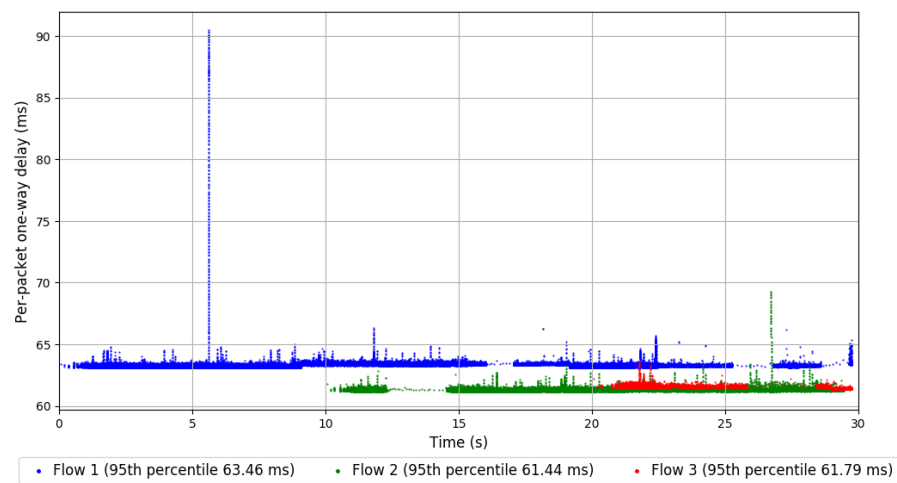
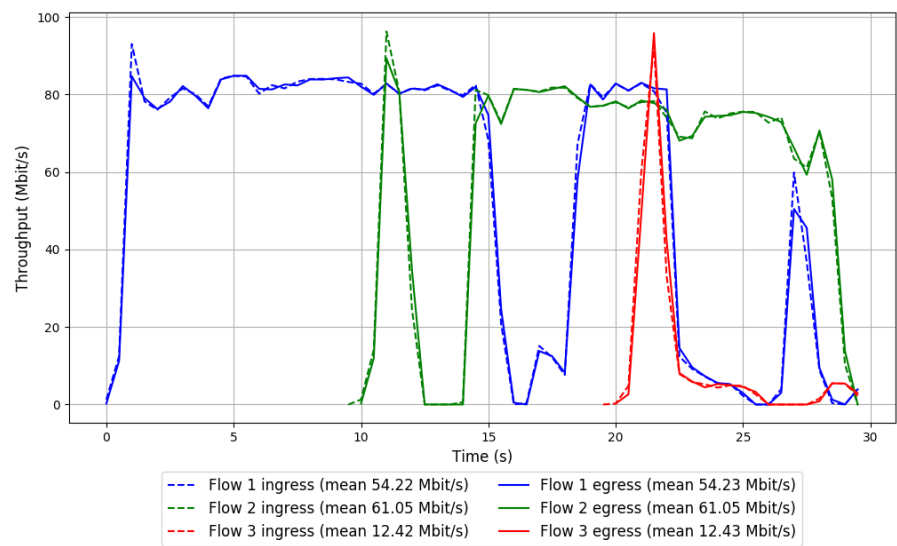
-- Flow 3:

Average throughput: 12.43 Mbit/s

95th percentile per-packet one-way delay: 61.788 ms

Loss rate: 0.00%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2017-12-12 15:07:18

End at: 2017-12-12 15:07:48

Below is generated by plot.py at 2017-12-12 17:29:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.58 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 70.79 Mbit/s

95th percentile per-packet one-way delay: 63.557 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 23.84 Mbit/s

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

Loss rate: 0.00%

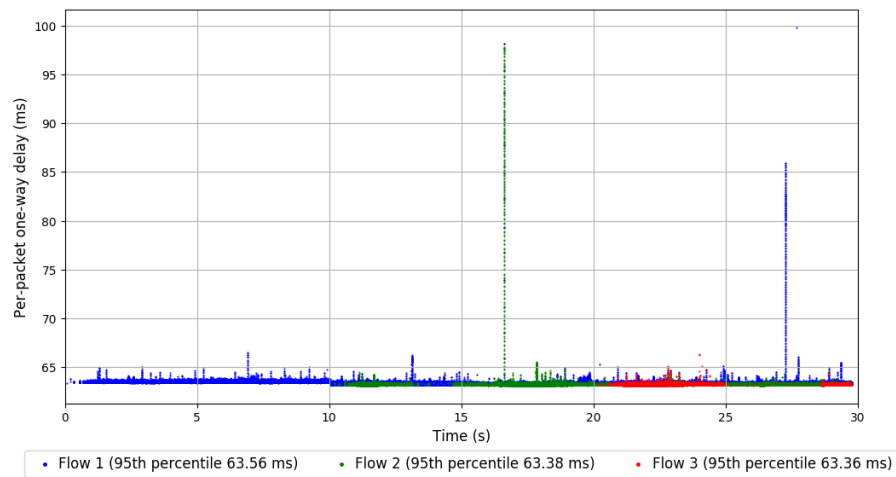
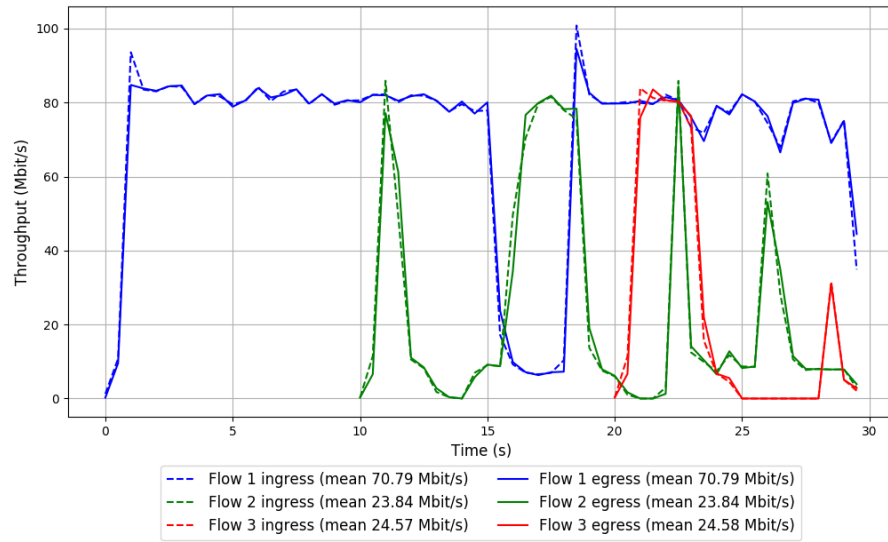
-- Flow 3:

Average throughput: 24.58 Mbit/s

95th percentile per-packet one-way delay: 63.364 ms

Loss rate: 0.00%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2017-12-12 15:19:33

End at: 2017-12-12 15:20:03

Below is generated by plot.py at 2017-12-12 17:29:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 103.52 Mbit/s

95th percentile per-packet one-way delay: 63.317 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 51.66 Mbit/s

95th percentile per-packet one-way delay: 63.363 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 67.76 Mbit/s

95th percentile per-packet one-way delay: 61.621 ms

Loss rate: 0.00%

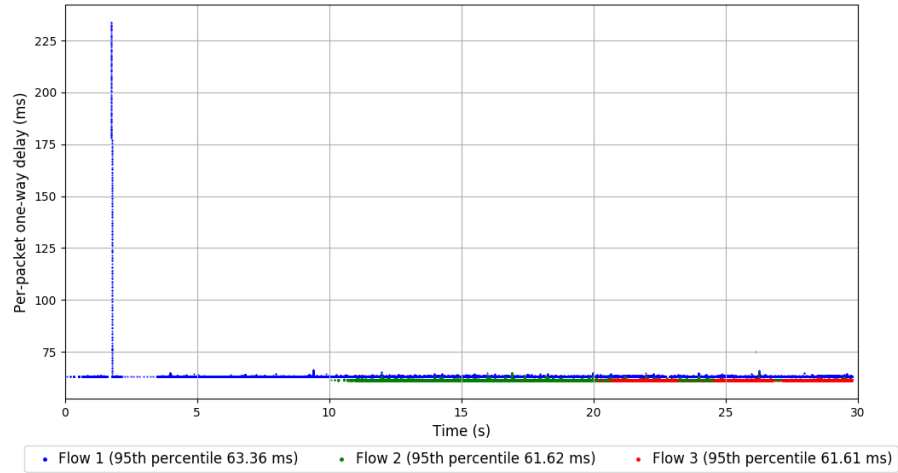
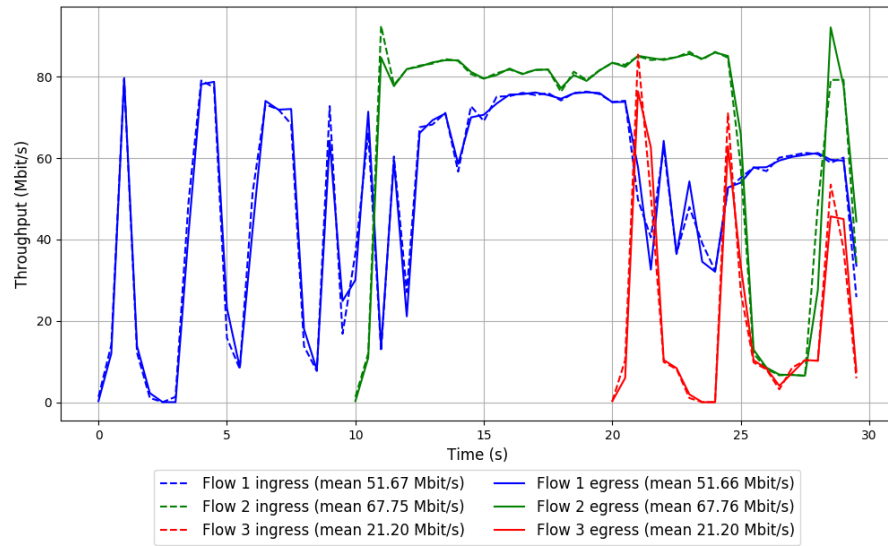
-- Flow 3:

Average throughput: 21.20 Mbit/s

95th percentile per-packet one-way delay: 61.613 ms

Loss rate: 0.00%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2017-12-12 15:31:39

End at: 2017-12-12 15:32:09

Below is generated by plot.py at 2017-12-12 17:29:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 106.17 Mbit/s

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

Loss rate: 0.05%

-- Flow 1:

Average throughput: 60.80 Mbit/s

95th percentile per-packet one-way delay: 63.536 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 59.88 Mbit/s

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

Loss rate: 0.13%

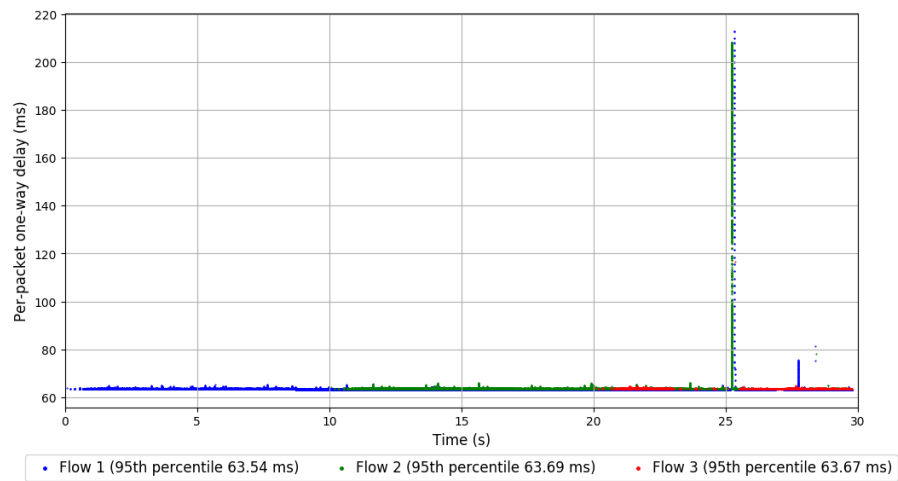
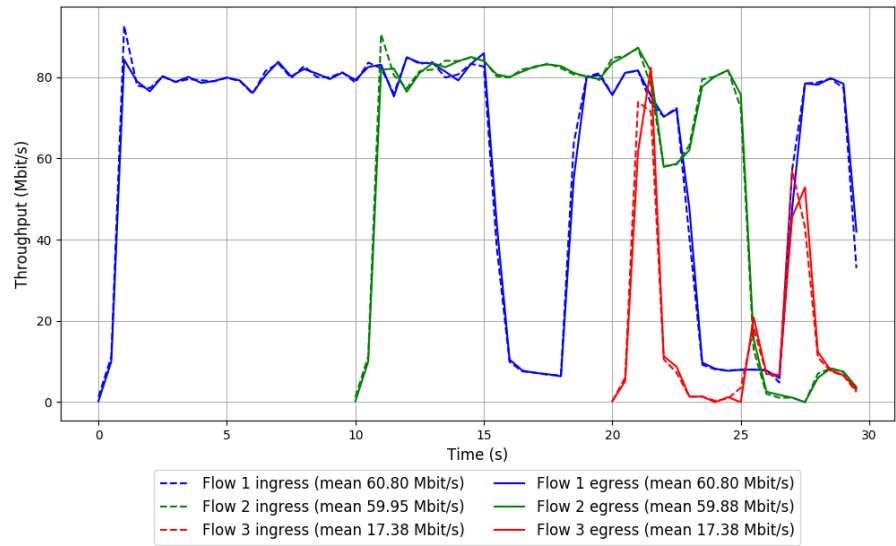
-- Flow 3:

Average throughput: 17.38 Mbit/s

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

Loss rate: 0.00%

Run 10: Report of QUIC Cubic — Data Link

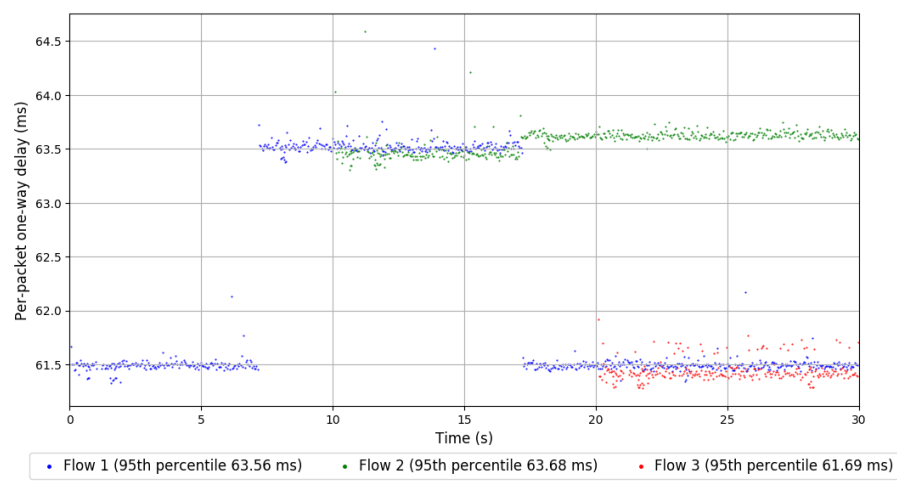
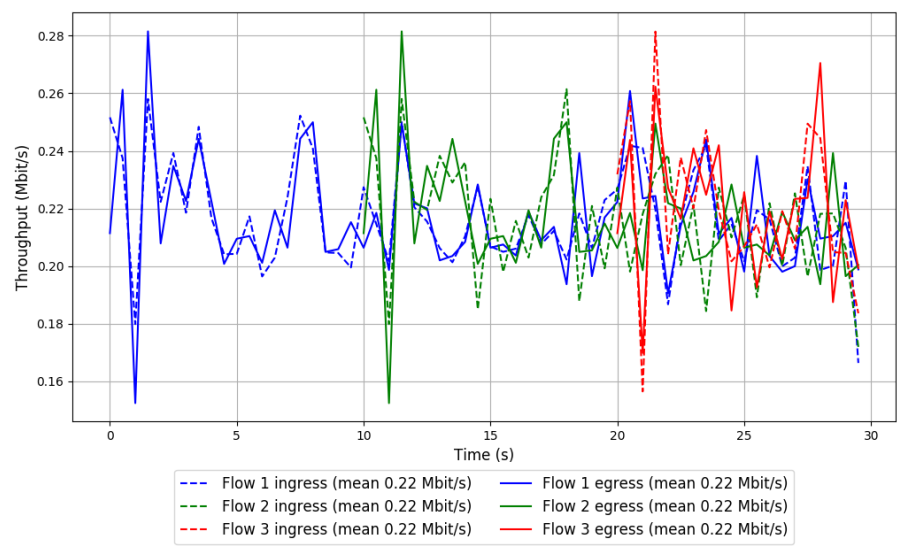


```
Run 1: Statistics of SCReAM

Start at: 2017-12-12 13:41:21
End at: 2017-12-12 13:41:51

# Below is generated by plot.py at 2017-12-12 17:29:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 63.650 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.561 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.680 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 61.685 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

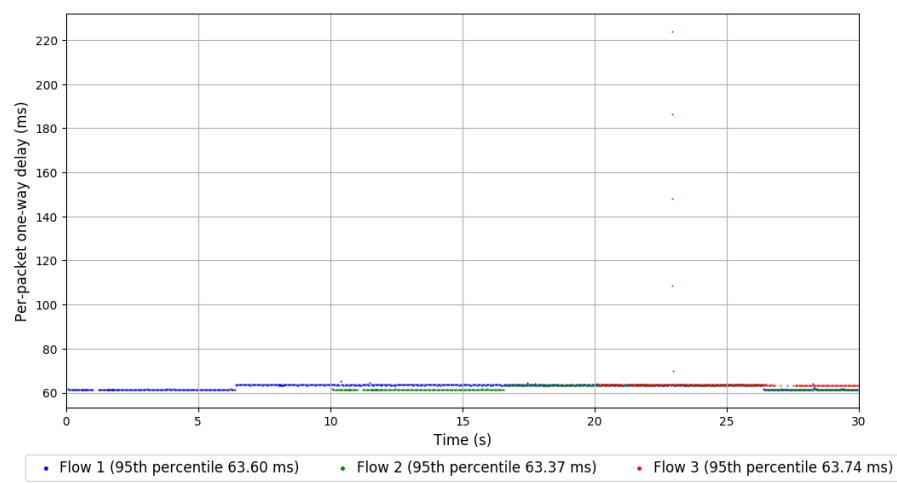
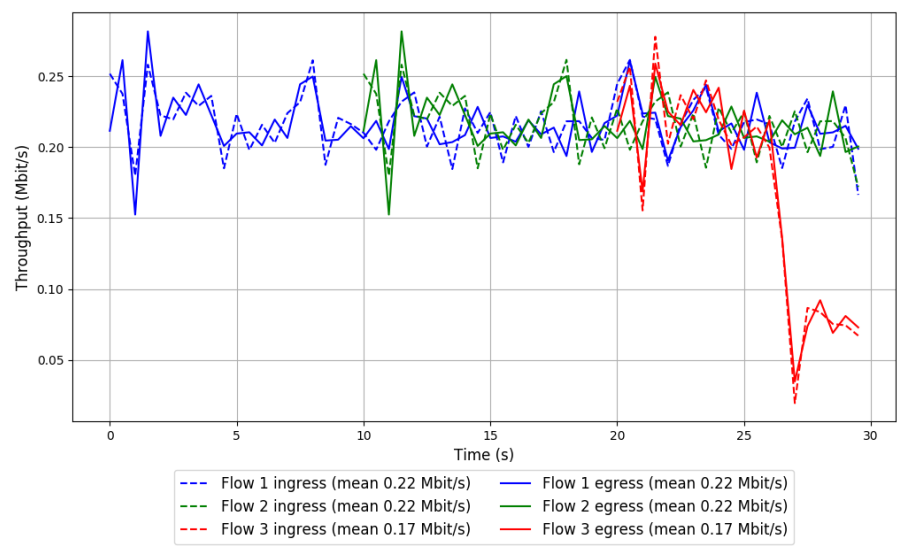


```
Run 2: Statistics of SReAM

Start at: 2017-12-12 13:53:42
End at: 2017-12-12 13:54:12

# Below is generated by plot.py at 2017-12-12 17:29:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.42 Mbit/s
95th percentile per-packet one-way delay: 63.691 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.601 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.372 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 63.744 ms
Loss rate: 0.00%
```

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2017-12-12 14:06:05

End at: 2017-12-12 14:06:35

Below is generated by plot.py at 2017-12-12 17:29:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 63.636 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.675 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.294 ms

Loss rate: 0.00%

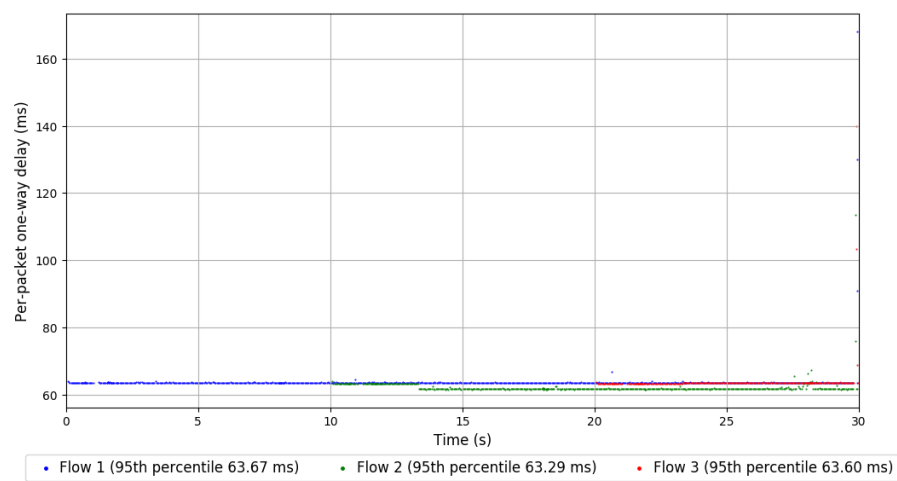
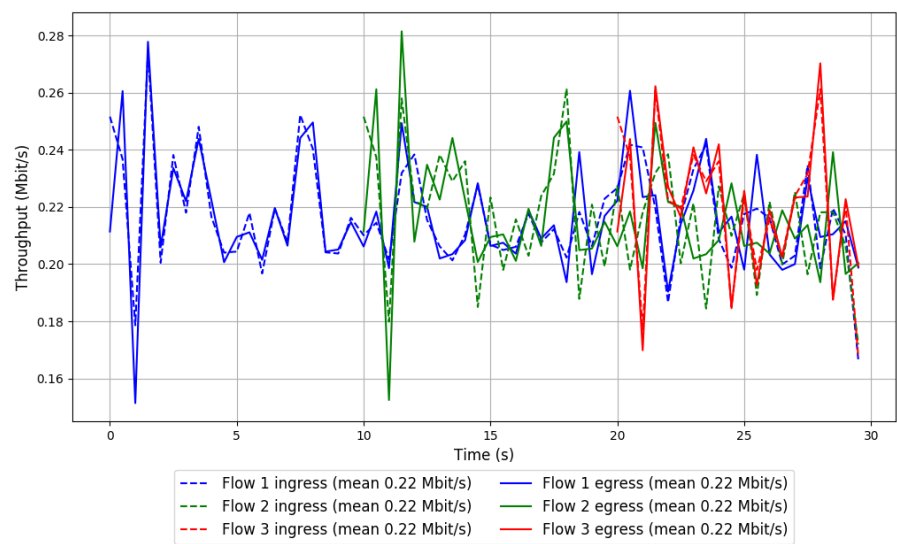
-- Flow 3:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link

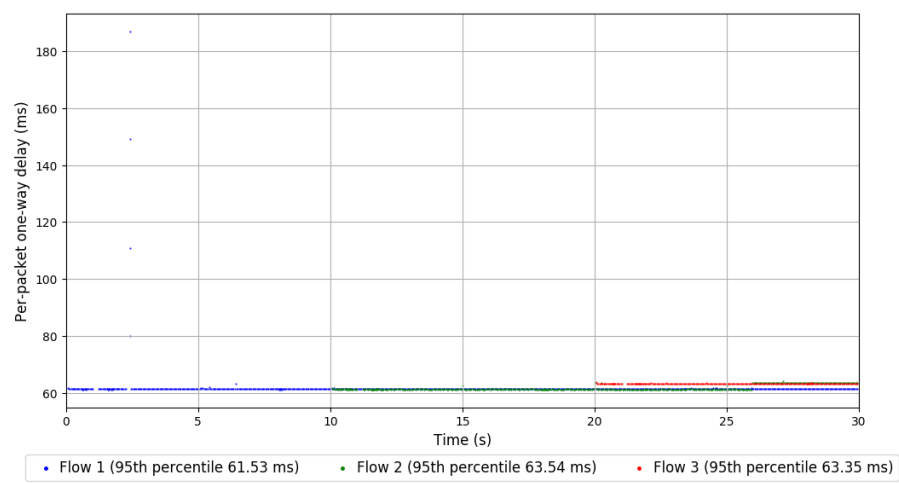
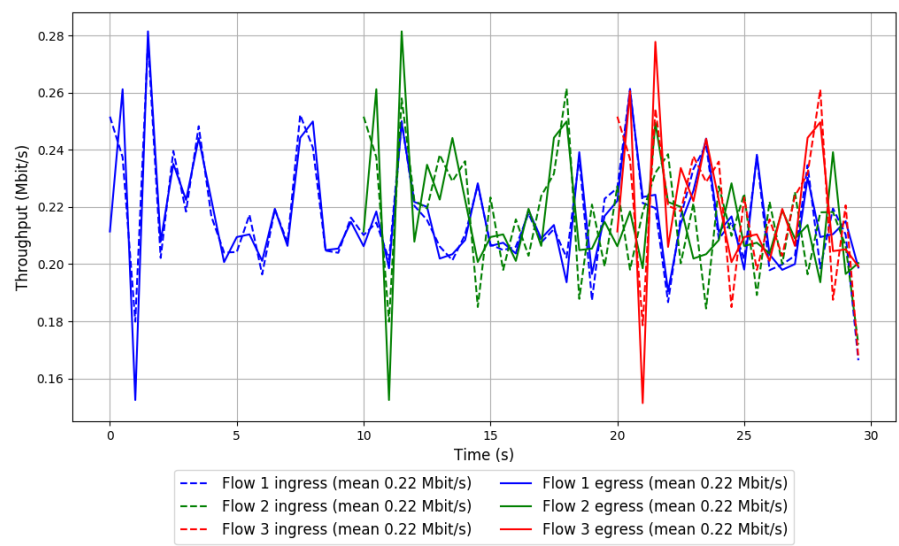


```
Run 4: Statistics of SReAM

Start at: 2017-12-12 14:18:32
End at: 2017-12-12 14:19:02

# Below is generated by plot.py at 2017-12-12 17:29:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 63.503 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 61.531 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.542 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.354 ms
Loss rate: 0.00%
```

Run 4: Report of SReAM — Data Link

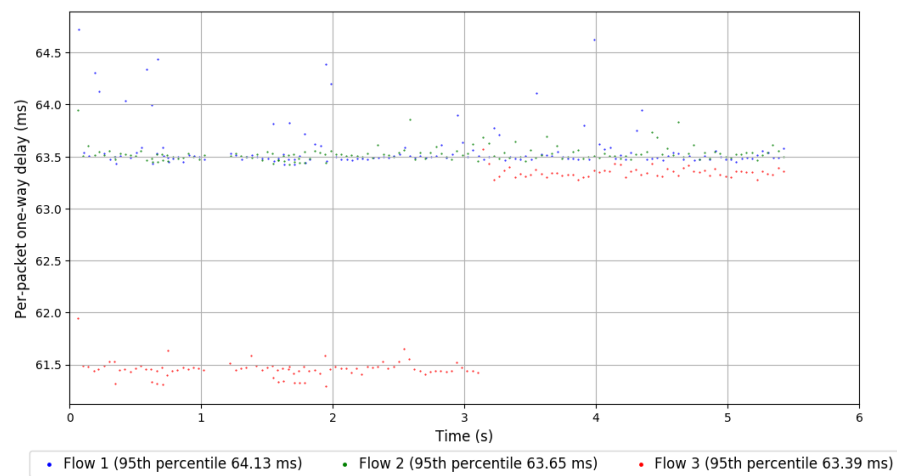
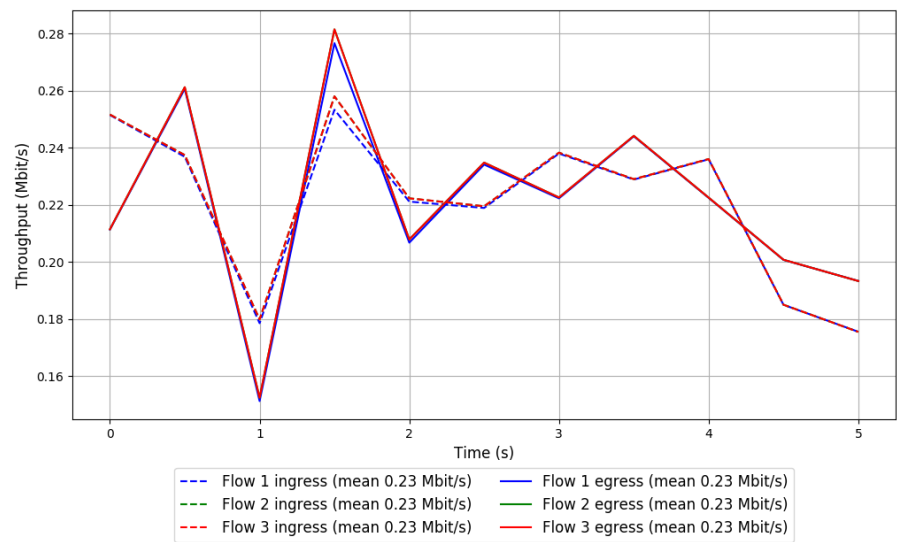


Run 5: Statistics of SReAM

Start at: 2017-12-12 14:30:50

End at: 2017-12-12 14:31:20

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SReAM

Start at: 2017-12-12 14:43:20

End at: 2017-12-12 14:43:50

Below is generated by plot.py at 2017-12-12 17:29:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.48 Mbit/s

95th percentile per-packet one-way delay: 63.621 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.604 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.644 ms

Loss rate: 0.00%

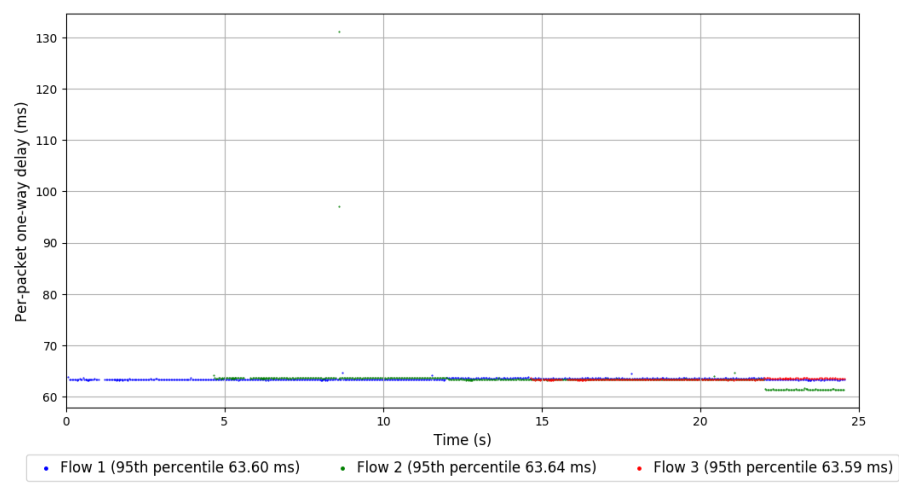
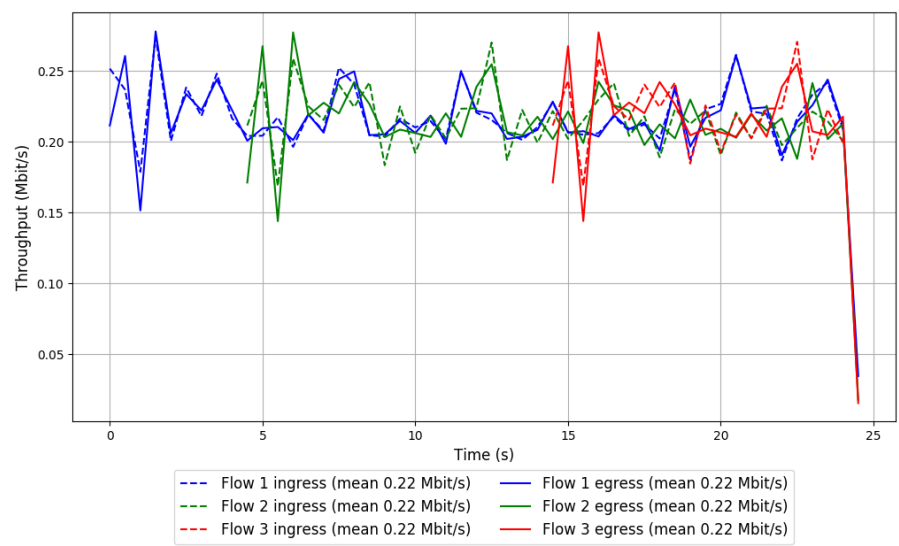
-- Flow 3:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.00%

Run 6: Report of SCReAM — Data Link

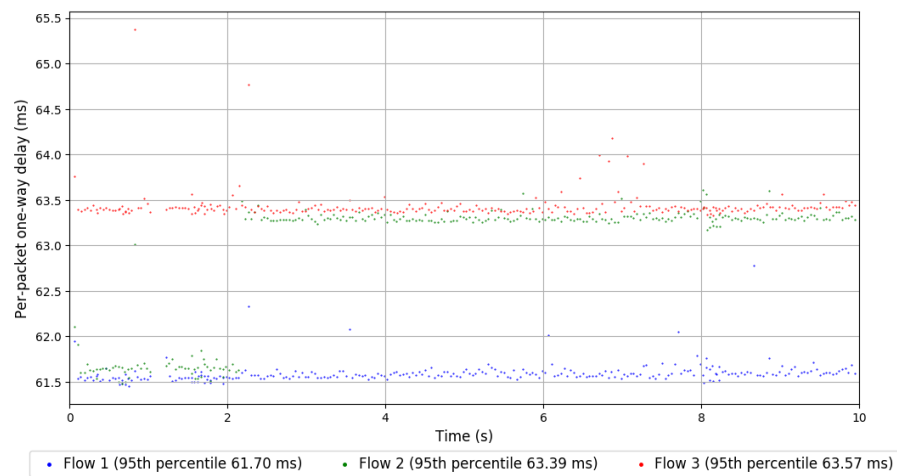
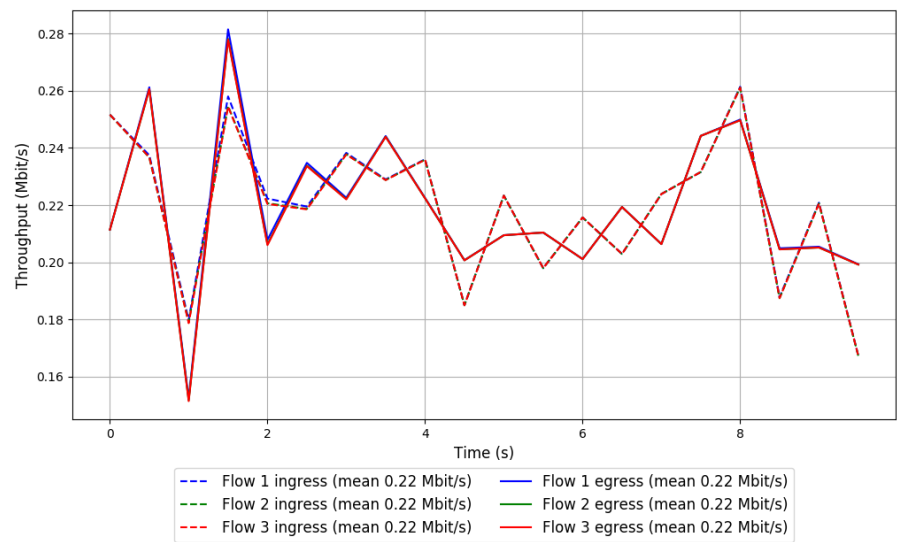


Run 7: Statistics of SCReAM

Start at: 2017-12-12 14:55:46

End at: 2017-12-12 14:56:16

Run 7: Report of SReAM — Data Link

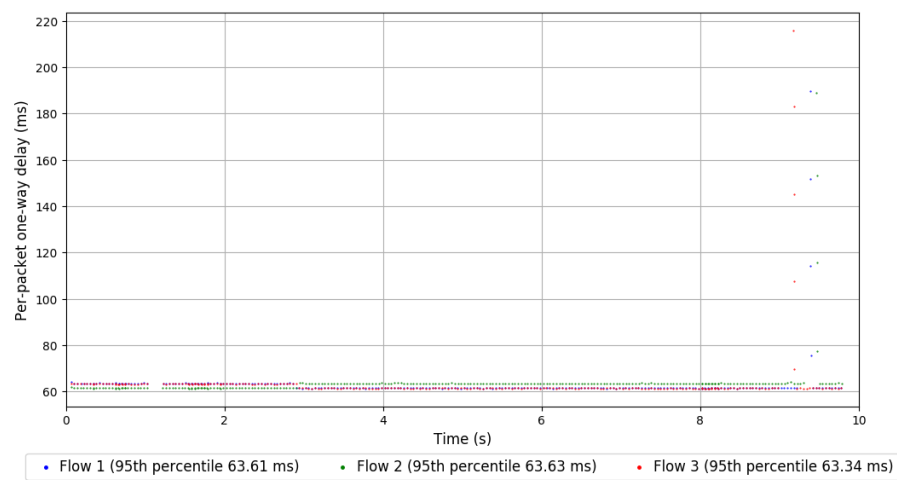
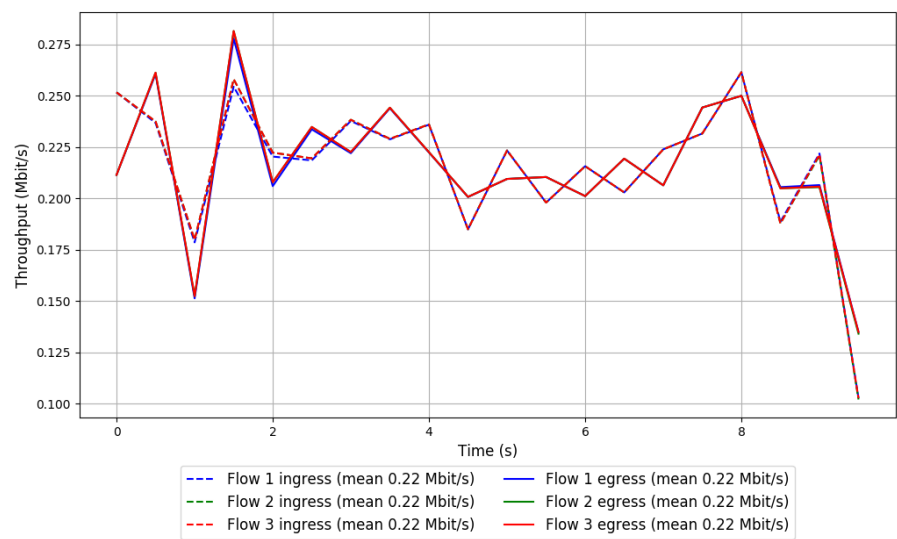


Run 8: Statistics of SReAM

Start at: 2017-12-12 15:08:05

End at: 2017-12-12 15:08:35

Run 8: Report of SReAM — Data Link

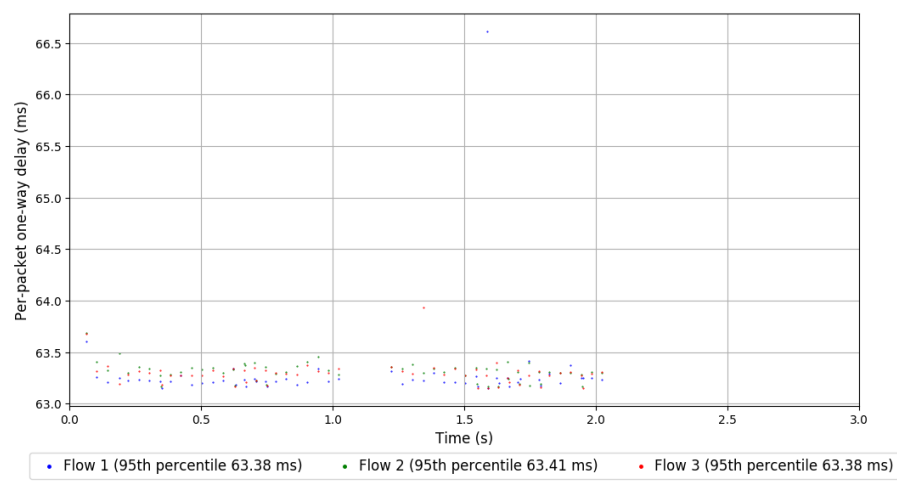
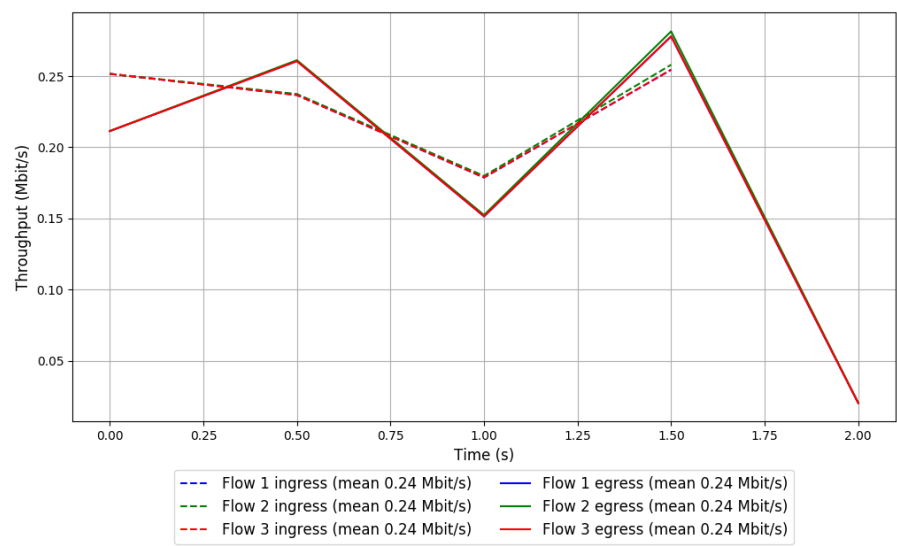


Run 9: Statistics of SReAM

Start at: 2017-12-12 15:20:21

End at: 2017-12-12 15:20:51

Run 9: Report of SReAM — Data Link

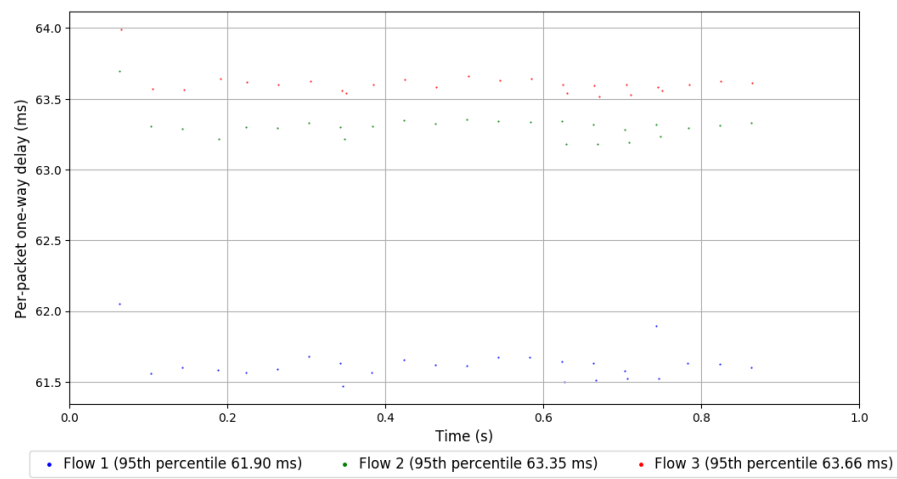
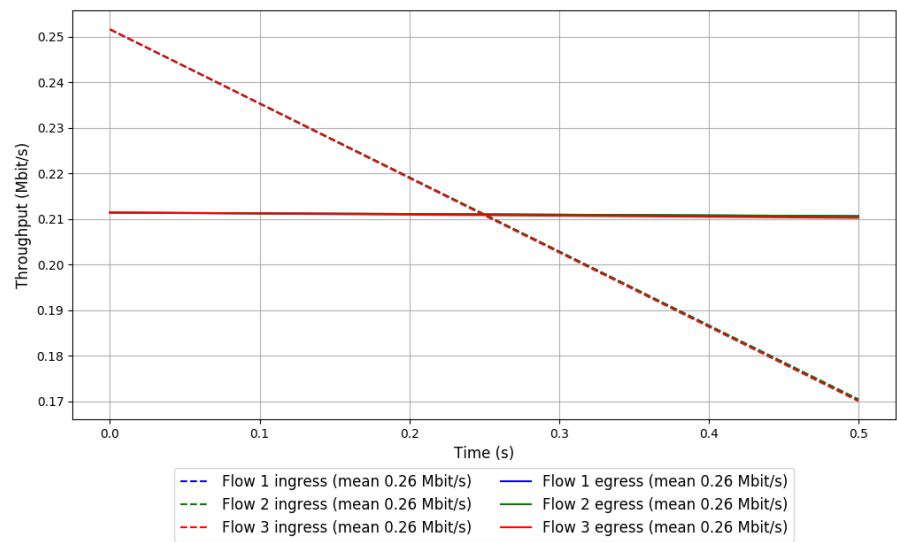


Run 10: Statistics of SCReAM

Start at: 2017-12-12 15:32:26

End at: 2017-12-12 15:32:56

Run 10: Report of SReAM — Data Link

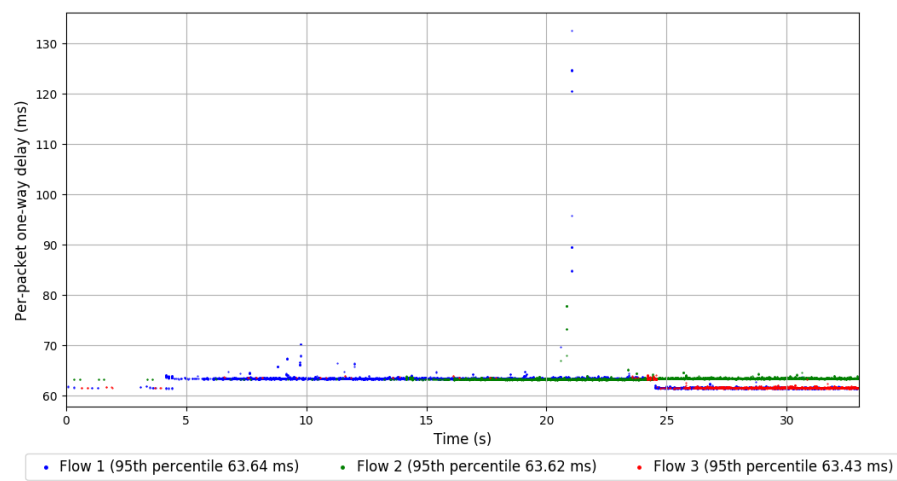
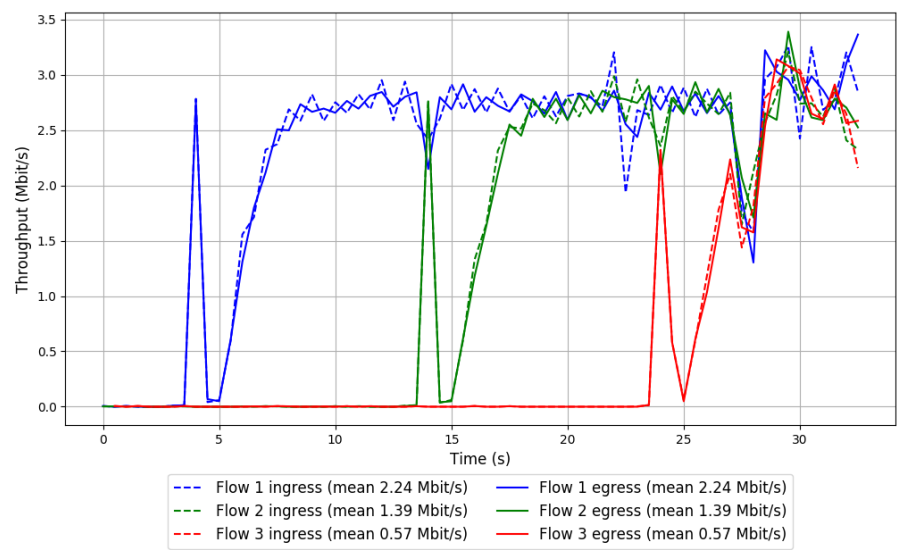


```
Run 1: Statistics of WebRTC media

Start at: 2017-12-12 13:45:46
End at: 2017-12-12 13:46:16

# Below is generated by plot.py at 2017-12-12 17:29:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.18 Mbit/s
95th percentile per-packet one-way delay: 63.611 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.24 Mbit/s
95th percentile per-packet one-way delay: 63.636 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.39 Mbit/s
95th percentile per-packet one-way delay: 63.615 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.57 Mbit/s
95th percentile per-packet one-way delay: 63.432 ms
Loss rate: 0.00%
```


Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

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

End at: 2017-12-12 13:58:43

Below is generated by plot.py at 2017-12-12 17:29:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.13 Mbit/s

95th percentile per-packet one-way delay: 63.725 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 2.22 Mbit/s

95th percentile per-packet one-way delay: 63.725 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.39 Mbit/s

95th percentile per-packet one-way delay: 63.754 ms

Loss rate: 0.04%

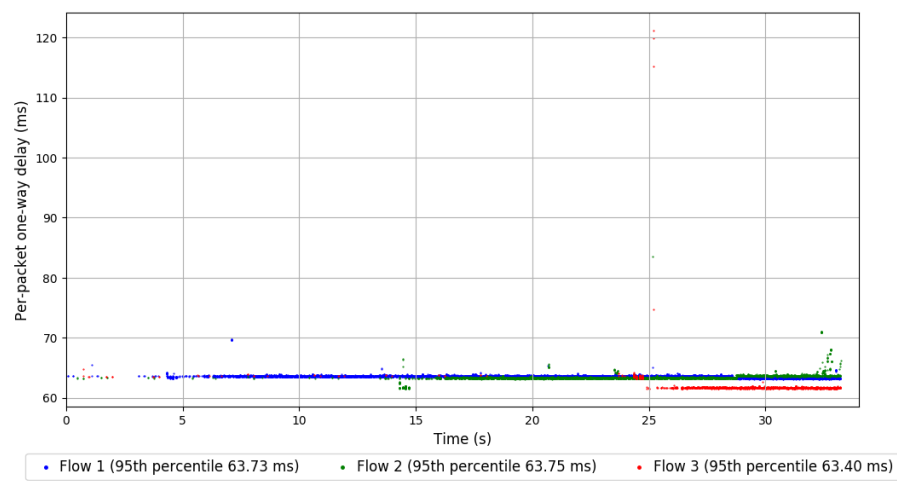
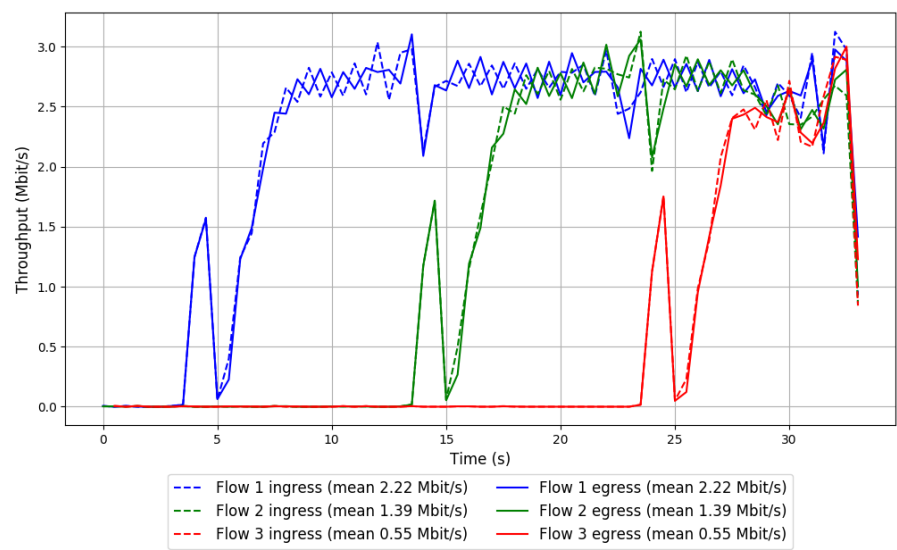
-- Flow 3:

Average throughput: 0.55 Mbit/s

95th percentile per-packet one-way delay: 63.399 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

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

End at: 2017-12-12 14:11:03

Below is generated by plot.py at 2017-12-12 17:29:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.13 Mbit/s

95th percentile per-packet one-way delay: 63.693 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.21 Mbit/s

95th percentile per-packet one-way delay: 63.721 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.38 Mbit/s

95th percentile per-packet one-way delay: 61.526 ms

Loss rate: 0.00%

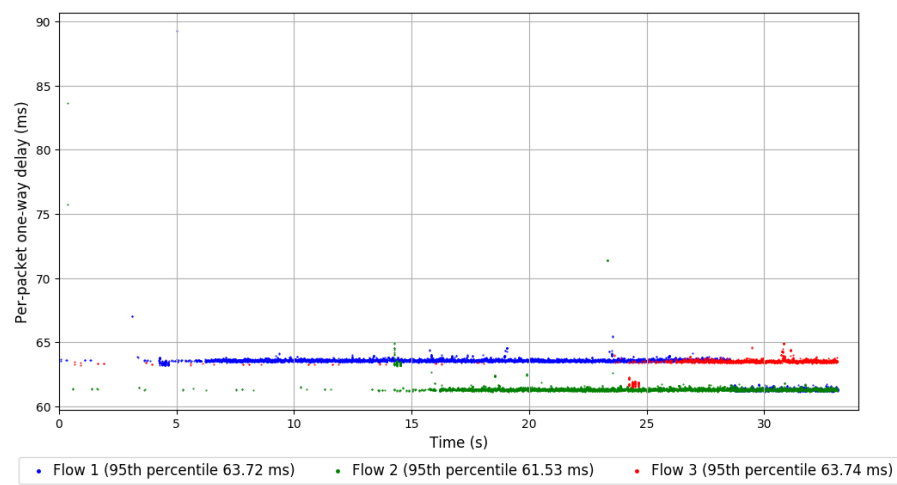
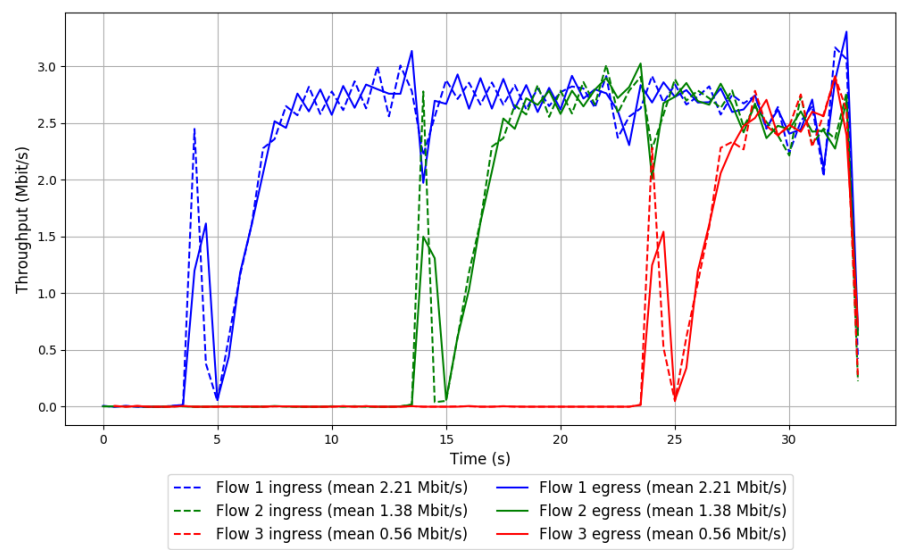
-- Flow 3:

Average throughput: 0.56 Mbit/s

95th percentile per-packet one-way delay: 63.737 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2017-12-12 14:22:55

End at: 2017-12-12 14:23:25

Below is generated by plot.py at 2017-12-12 17:29:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.14 Mbit/s

95th percentile per-packet one-way delay: 63.659 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.21 Mbit/s

95th percentile per-packet one-way delay: 63.678 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.39 Mbit/s

95th percentile per-packet one-way delay: 62.043 ms

Loss rate: 0.00%

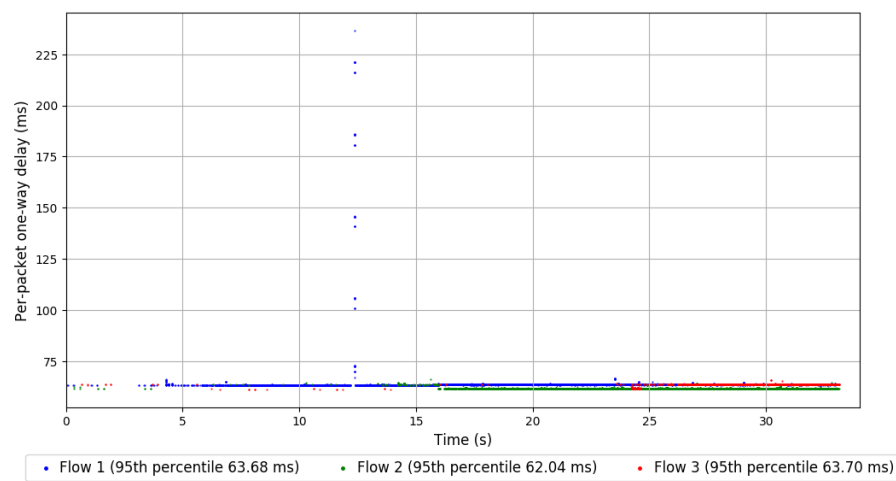
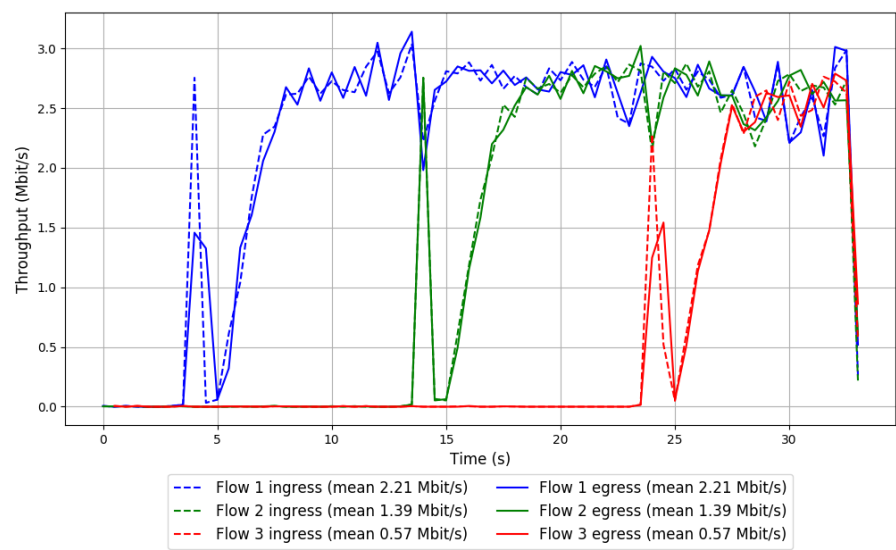
-- Flow 3:

Average throughput: 0.57 Mbit/s

95th percentile per-packet one-way delay: 63.701 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2017-12-12 14:35:23

End at: 2017-12-12 14:35:53

Below is generated by plot.py at 2017-12-12 17:29:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.11 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.19 Mbit/s

95th percentile per-packet one-way delay: 63.408 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.37 Mbit/s

95th percentile per-packet one-way delay: 63.673 ms

Loss rate: 0.00%

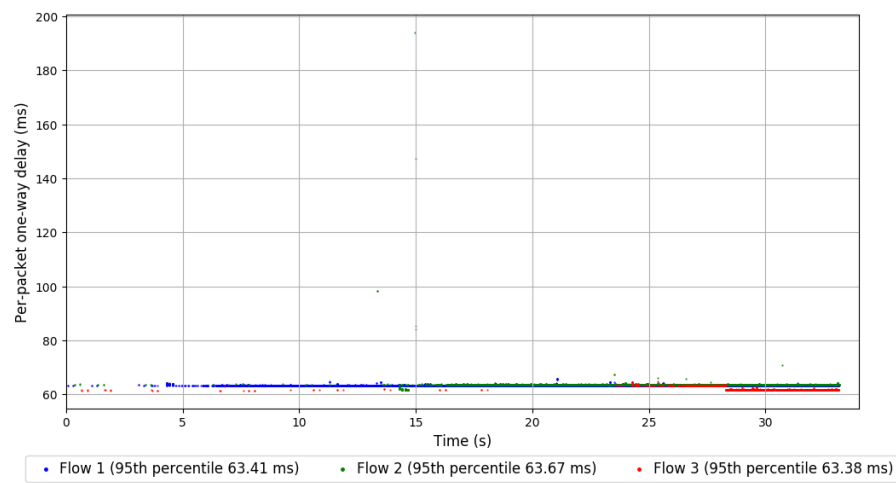
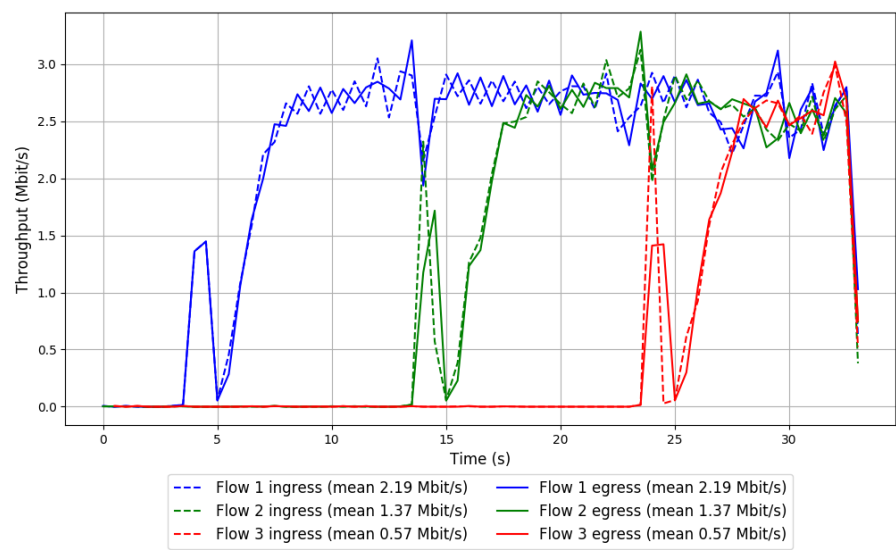
-- Flow 3:

Average throughput: 0.57 Mbit/s

95th percentile per-packet one-way delay: 63.377 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2017-12-12 14:47:49

End at: 2017-12-12 14:48:19

Below is generated by plot.py at 2017-12-12 17:29:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.10 Mbit/s

95th percentile per-packet one-way delay: 63.640 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.20 Mbit/s

95th percentile per-packet one-way delay: 63.402 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.39 Mbit/s

95th percentile per-packet one-way delay: 63.703 ms

Loss rate: 0.00%

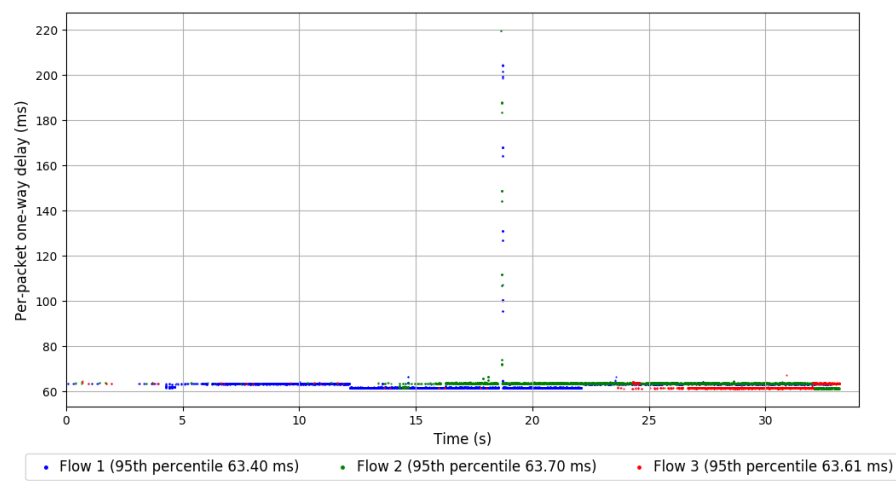
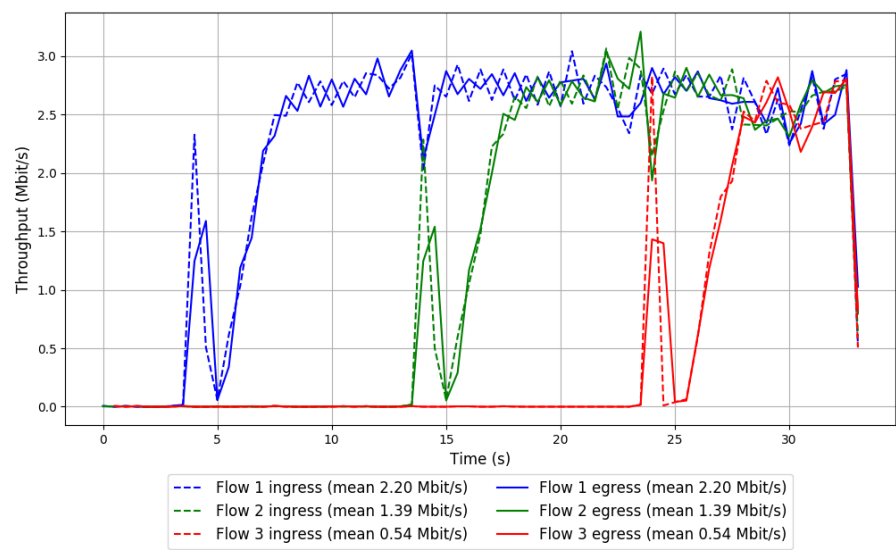
-- Flow 3:

Average throughput: 0.54 Mbit/s

95th percentile per-packet one-way delay: 63.612 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2017-12-12 15:00:11

End at: 2017-12-12 15:00:41

Below is generated by plot.py at 2017-12-12 17:29:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.15 Mbit/s

95th percentile per-packet one-way delay: 63.408 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.21 Mbit/s

95th percentile per-packet one-way delay: 63.433 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.39 Mbit/s

95th percentile per-packet one-way delay: 61.586 ms

Loss rate: 0.00%

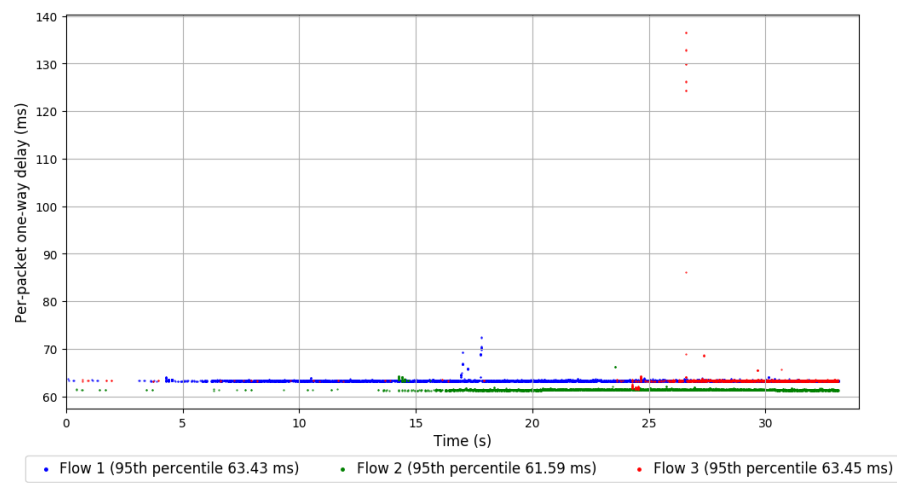
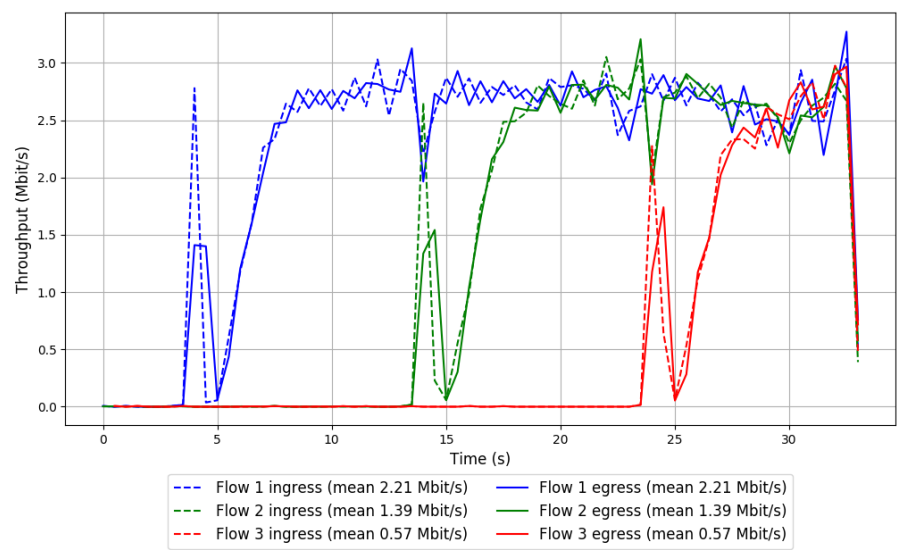
-- Flow 3:

Average throughput: 0.57 Mbit/s

95th percentile per-packet one-way delay: 63.445 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2017-12-12 15:12:33

End at: 2017-12-12 15:13:03

Below is generated by plot.py at 2017-12-12 17:29:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.15 Mbit/s

95th percentile per-packet one-way delay: 63.661 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.21 Mbit/s

95th percentile per-packet one-way delay: 63.539 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.39 Mbit/s

95th percentile per-packet one-way delay: 63.739 ms

Loss rate: 0.00%

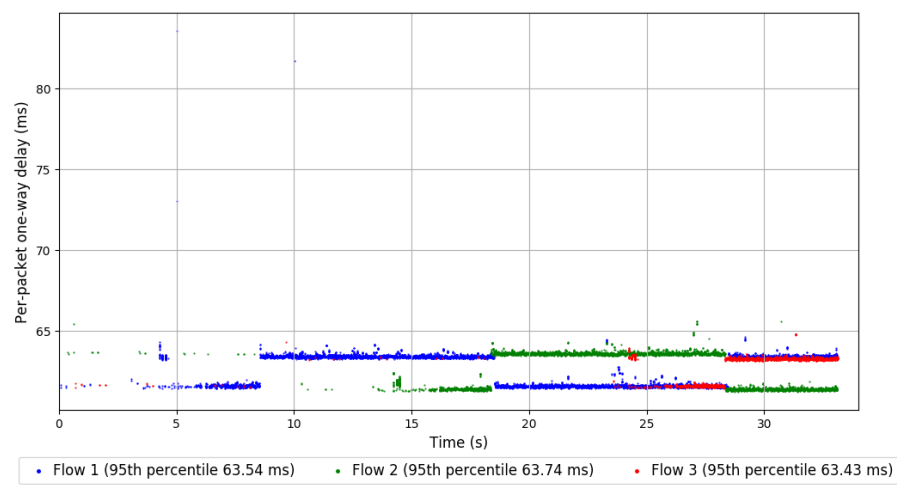
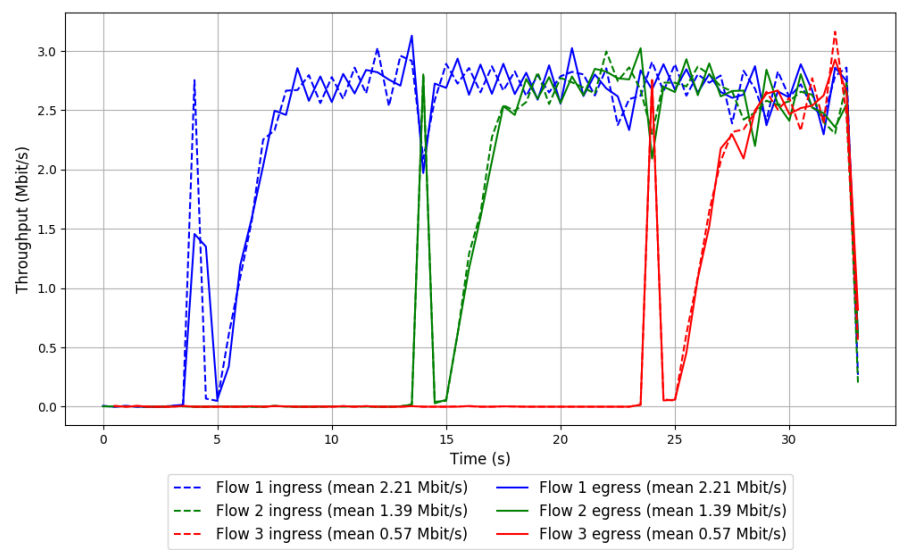
-- Flow 3:

Average throughput: 0.57 Mbit/s

95th percentile per-packet one-way delay: 63.434 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2017-12-12 15:24:36

End at: 2017-12-12 15:25:06

Below is generated by plot.py at 2017-12-12 17:29:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.13 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.20 Mbit/s

95th percentile per-packet one-way delay: 63.581 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.39 Mbit/s

95th percentile per-packet one-way delay: 61.692 ms

Loss rate: 0.00%

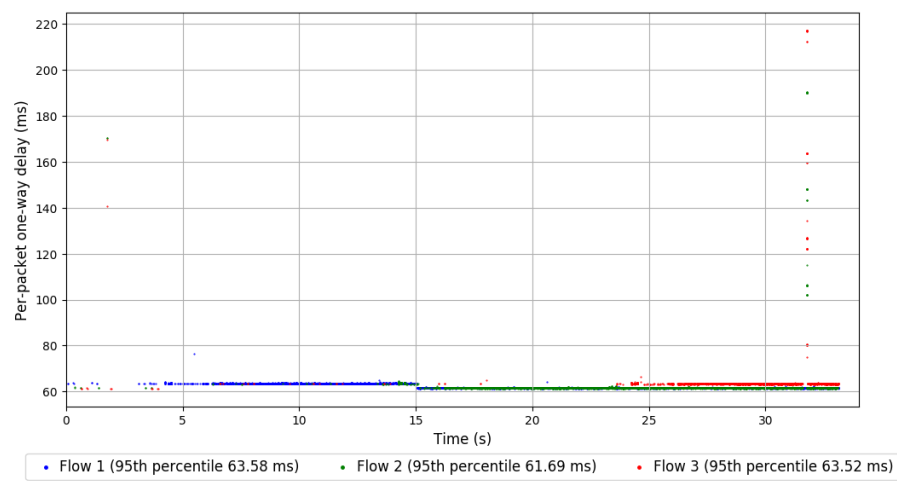
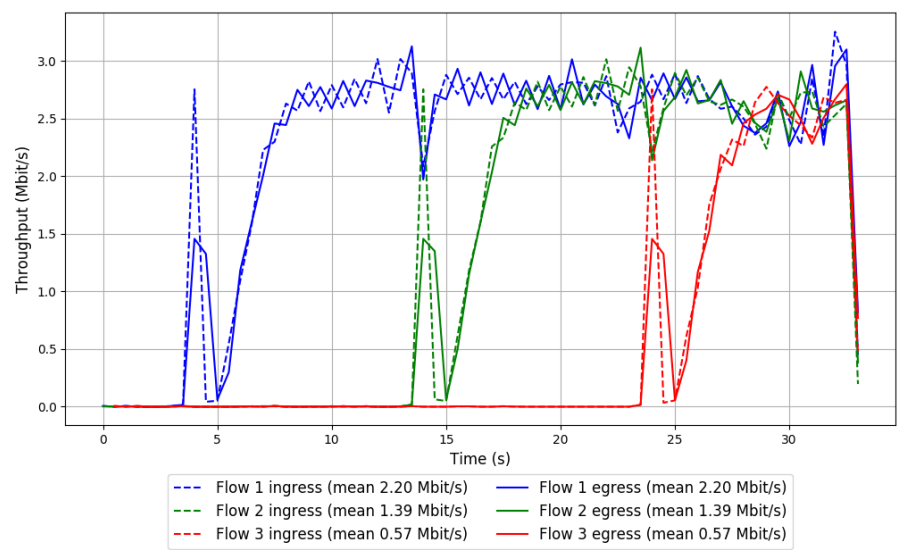
-- Flow 3:

Average throughput: 0.57 Mbit/s

95th percentile per-packet one-way delay: 63.525 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2017-12-12 15:36:41

End at: 2017-12-12 15:37:11

Below is generated by plot.py at 2017-12-12 17:29:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.15 Mbit/s

95th percentile per-packet one-way delay: 63.554 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 2.21 Mbit/s

95th percentile per-packet one-way delay: 61.546 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.40 Mbit/s

95th percentile per-packet one-way delay: 63.608 ms

Loss rate: 0.00%

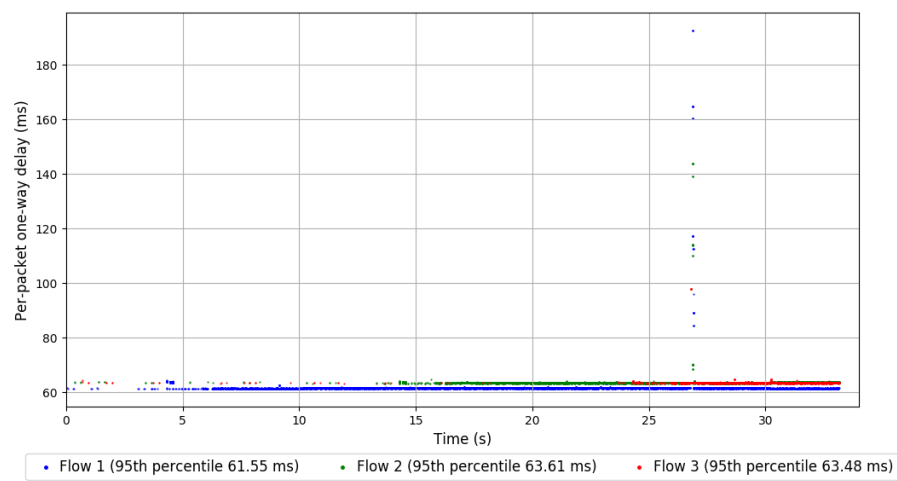
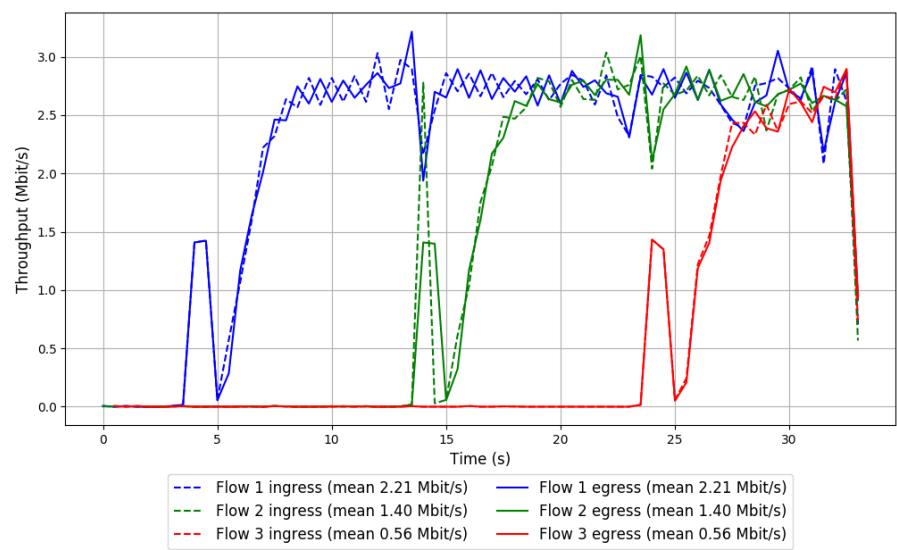
-- Flow 3:

Average throughput: 0.56 Mbit/s

95th percentile per-packet one-way delay: 63.476 ms

Loss rate: 0.05%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2017-12-12 13:49:22

End at: 2017-12-12 13:49:52

Below is generated by plot.py at 2017-12-12 17:29:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 12.99 Mbit/s

95th percentile per-packet one-way delay: 64.743 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 6.67 Mbit/s

95th percentile per-packet one-way delay: 64.764 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 6.40 Mbit/s

95th percentile per-packet one-way delay: 64.776 ms

Loss rate: 0.00%

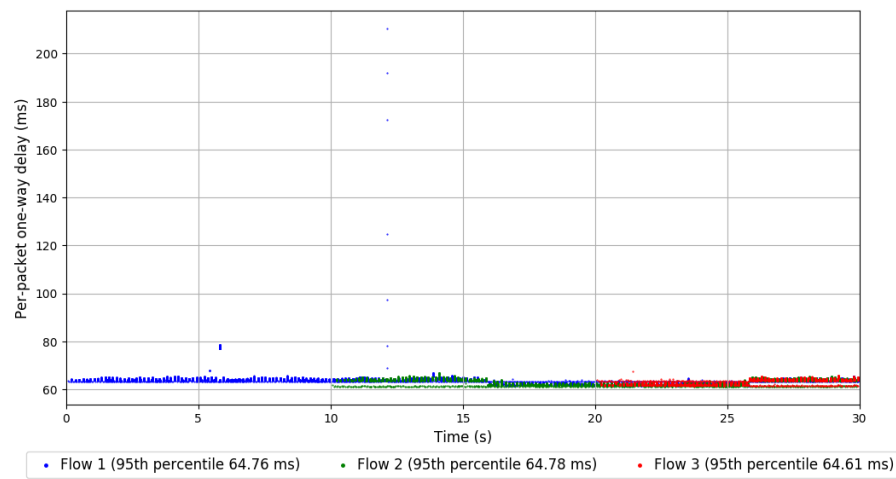
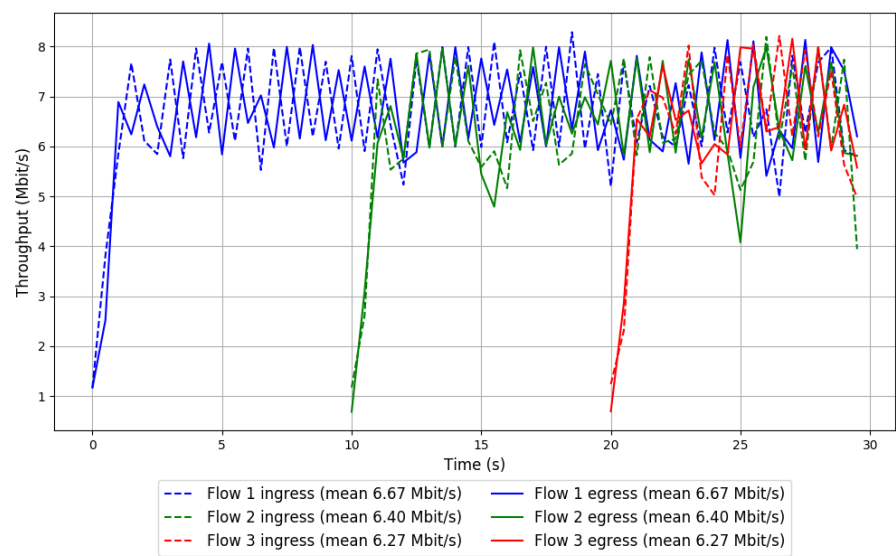
-- Flow 3:

Average throughput: 6.27 Mbit/s

95th percentile per-packet one-way delay: 64.607 ms

Loss rate: 0.00%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2017-12-12 14:01:48

End at: 2017-12-12 14:02:18

Below is generated by plot.py at 2017-12-12 17:29:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 13.06 Mbit/s

95th percentile per-packet one-way delay: 63.472 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 6.55 Mbit/s

95th percentile per-packet one-way delay: 63.472 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 6.61 Mbit/s

95th percentile per-packet one-way delay: 63.150 ms

Loss rate: 0.00%

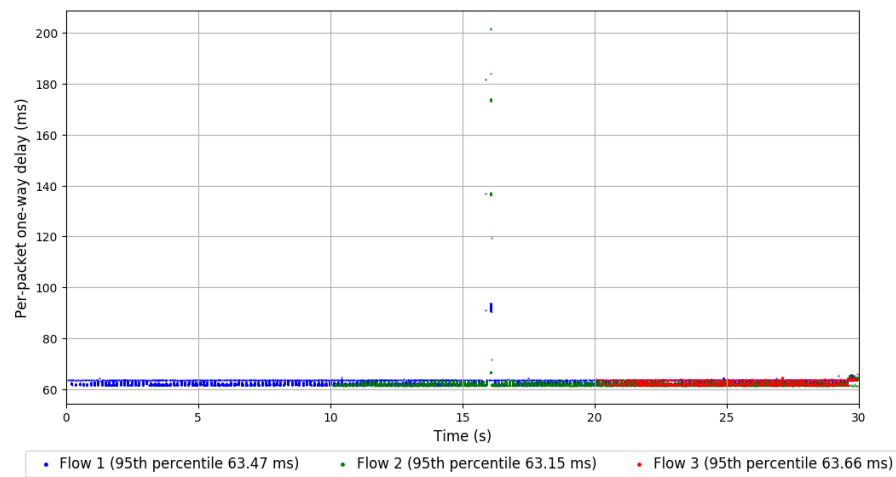
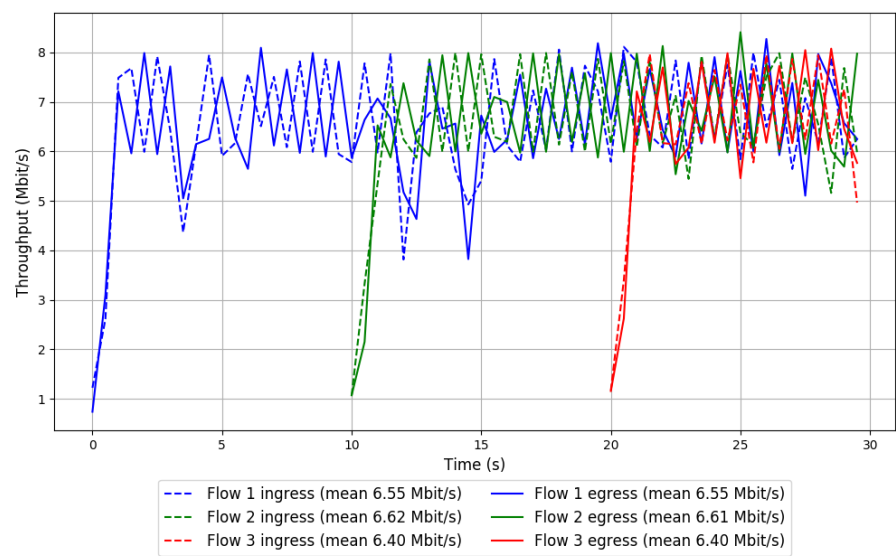
-- Flow 3:

Average throughput: 6.40 Mbit/s

95th percentile per-packet one-way delay: 63.661 ms

Loss rate: 0.00%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

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

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

Below is generated by plot.py at 2017-12-12 17:29:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 14.23 Mbit/s

95th percentile per-packet one-way delay: 64.627 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 6.59 Mbit/s

95th percentile per-packet one-way delay: 64.666 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 6.59 Mbit/s

95th percentile per-packet one-way delay: 64.612 ms

Loss rate: 0.00%

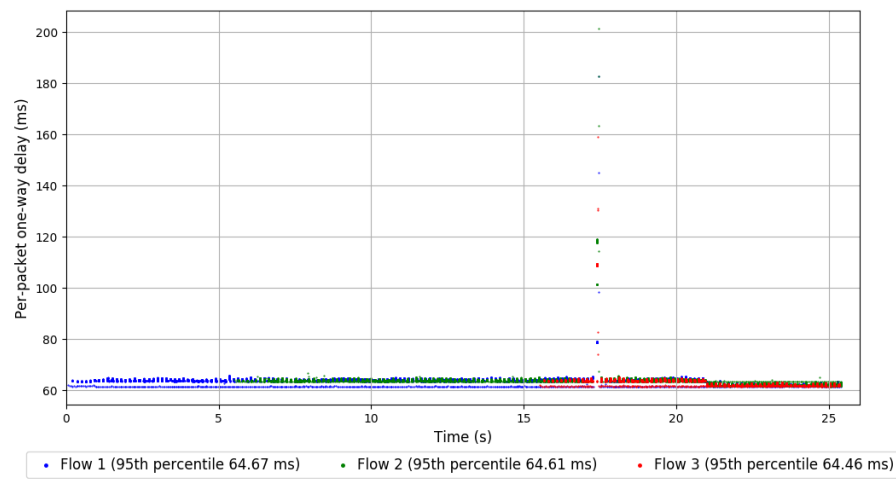
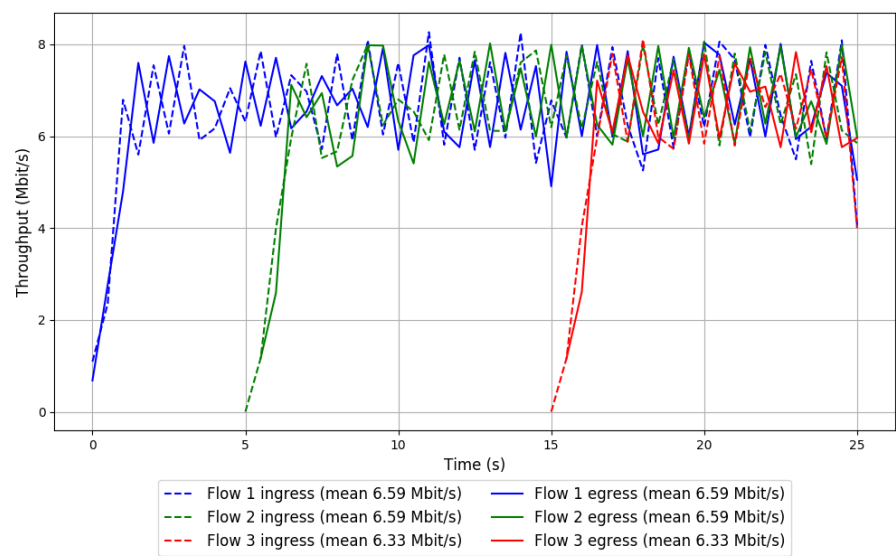
-- Flow 3:

Average throughput: 6.33 Mbit/s

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

Loss rate: 0.00%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2017-12-12 14:26:34

End at: 2017-12-12 14:27:04

Below is generated by plot.py at 2017-12-12 17:29:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 13.09 Mbit/s

95th percentile per-packet one-way delay: 63.645 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 6.53 Mbit/s

95th percentile per-packet one-way delay: 63.972 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 6.64 Mbit/s

95th percentile per-packet one-way delay: 63.094 ms

Loss rate: 0.00%

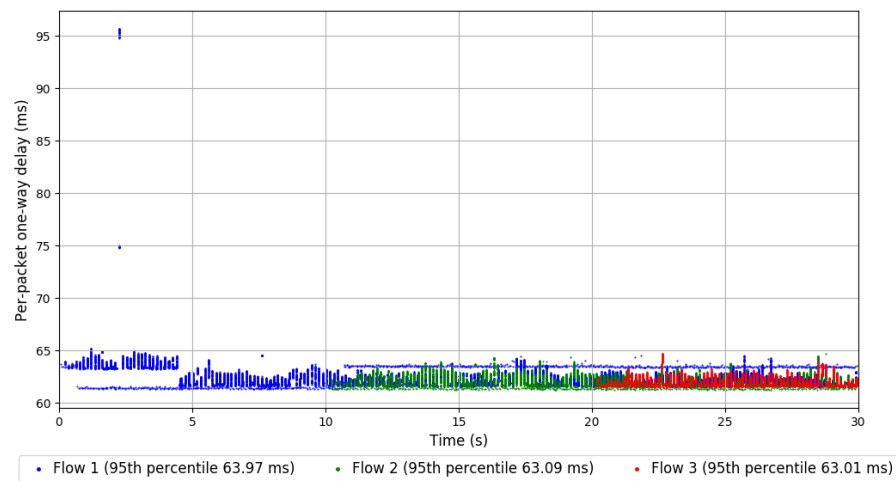
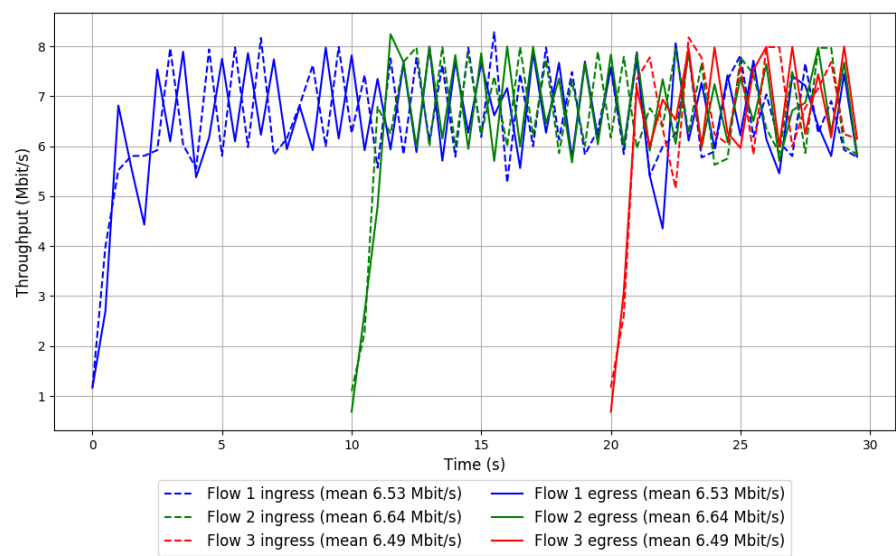
-- Flow 3:

Average throughput: 6.49 Mbit/s

95th percentile per-packet one-way delay: 63.008 ms

Loss rate: 0.00%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2017-12-12 14:39:01

End at: 2017-12-12 14:39:31

Below is generated by plot.py at 2017-12-12 17:29:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 12.93 Mbit/s

95th percentile per-packet one-way delay: 64.511 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 6.61 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 6.54 Mbit/s

95th percentile per-packet one-way delay: 64.580 ms

Loss rate: 0.05%

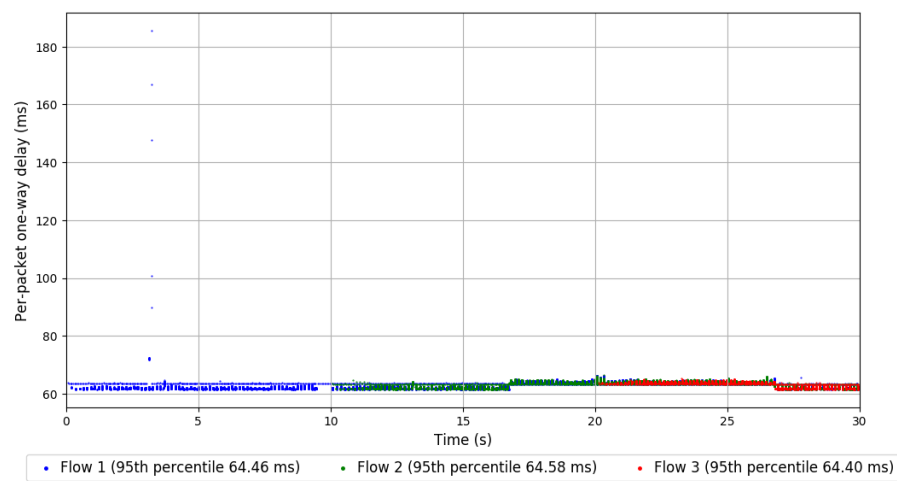
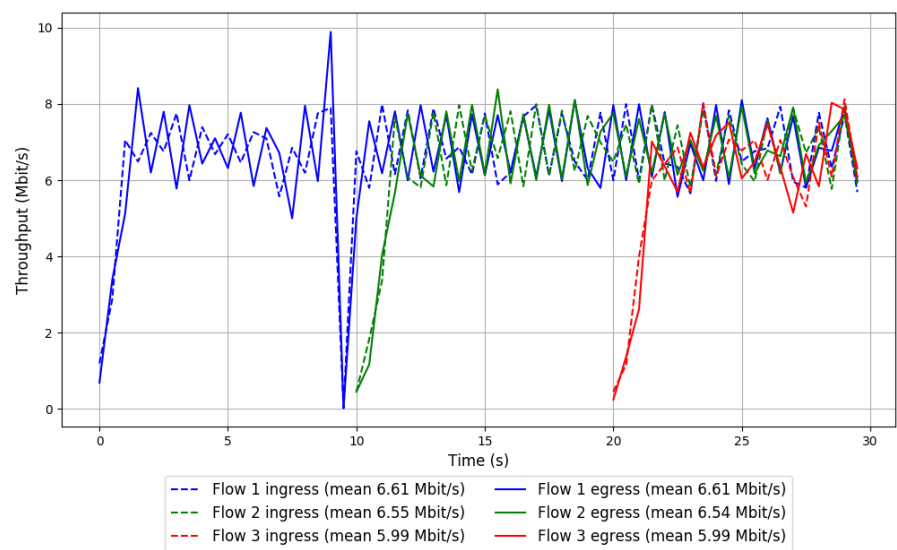
-- Flow 3:

Average throughput: 5.99 Mbit/s

95th percentile per-packet one-way delay: 64.401 ms

Loss rate: 0.00%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2017-12-12 14:51:28

End at: 2017-12-12 14:51:58

Below is generated by plot.py at 2017-12-12 17:29:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 12.69 Mbit/s

95th percentile per-packet one-way delay: 64.654 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 6.53 Mbit/s

95th percentile per-packet one-way delay: 64.534 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 6.28 Mbit/s

95th percentile per-packet one-way delay: 64.585 ms

Loss rate: 0.00%

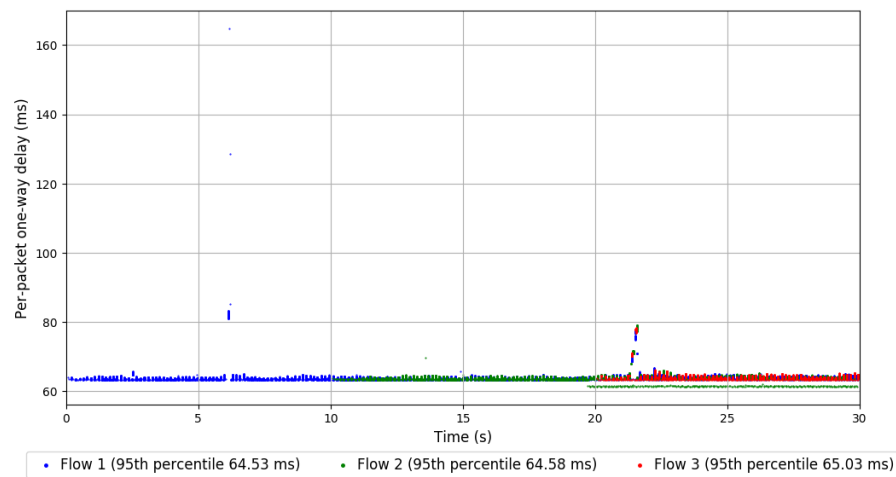
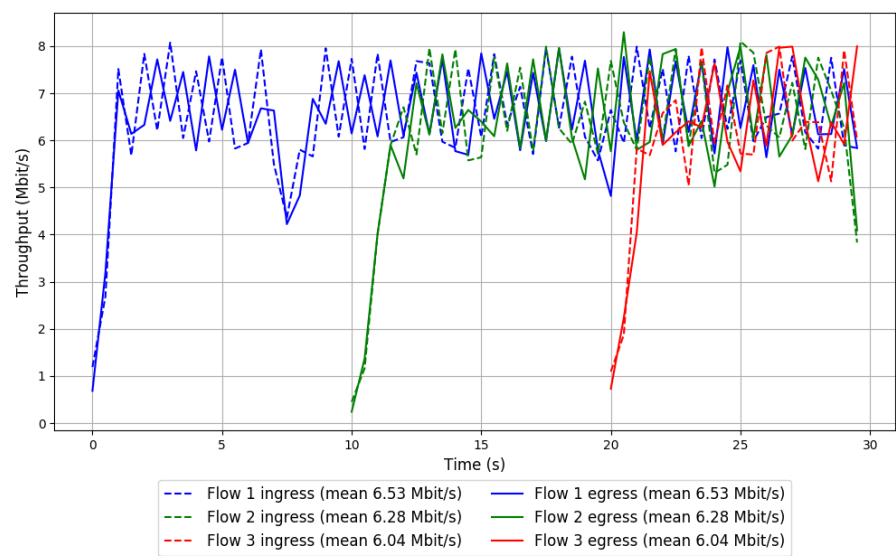
-- Flow 3:

Average throughput: 6.04 Mbit/s

95th percentile per-packet one-way delay: 65.031 ms

Loss rate: 0.00%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2017-12-12 15:03:46

End at: 2017-12-12 15:04:16

Below is generated by plot.py at 2017-12-12 17:29:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 13.10 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 6.67 Mbit/s

95th percentile per-packet one-way delay: 64.437 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 6.51 Mbit/s

95th percentile per-packet one-way delay: 63.478 ms

Loss rate: 0.00%

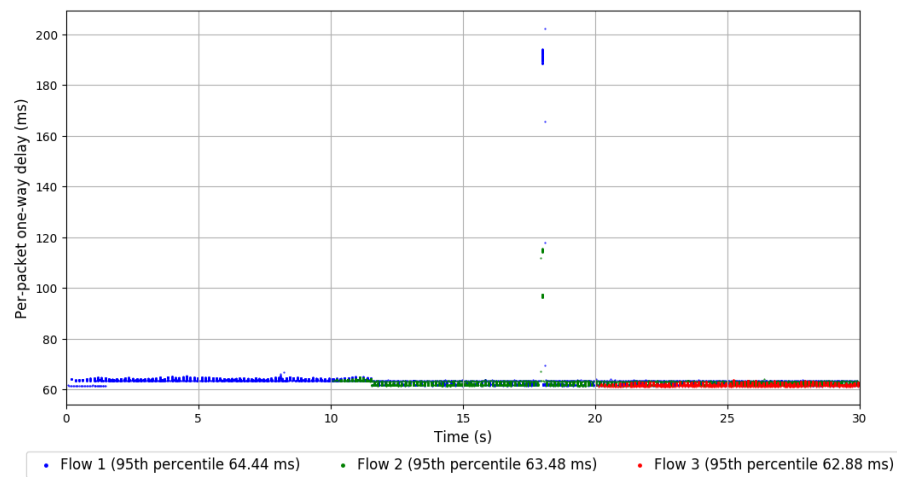
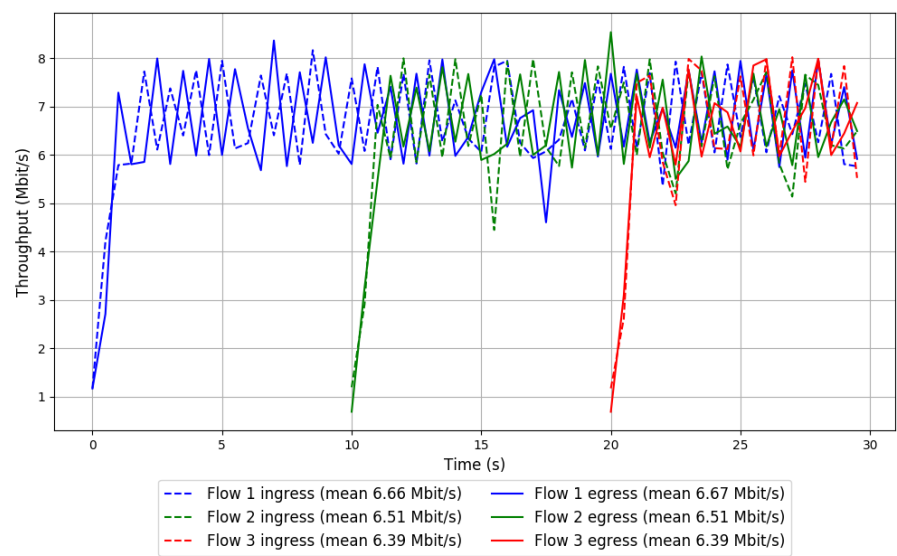
-- Flow 3:

Average throughput: 6.39 Mbit/s

95th percentile per-packet one-way delay: 62.878 ms

Loss rate: 0.00%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2017-12-12 15:16:09

End at: 2017-12-12 15:16:39

Below is generated by plot.py at 2017-12-12 17:29:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 12.94 Mbit/s

95th percentile per-packet one-way delay: 64.778 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 6.63 Mbit/s

95th percentile per-packet one-way delay: 64.757 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 6.50 Mbit/s

95th percentile per-packet one-way delay: 64.943 ms

Loss rate: 0.00%

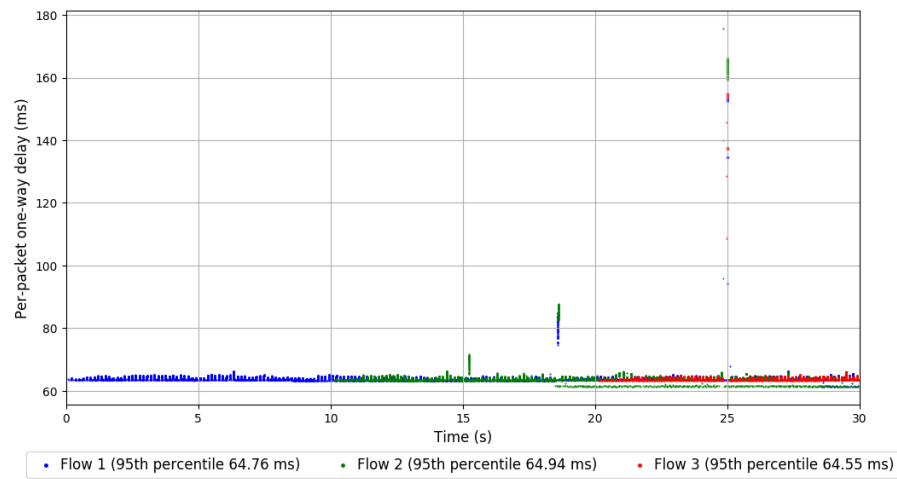
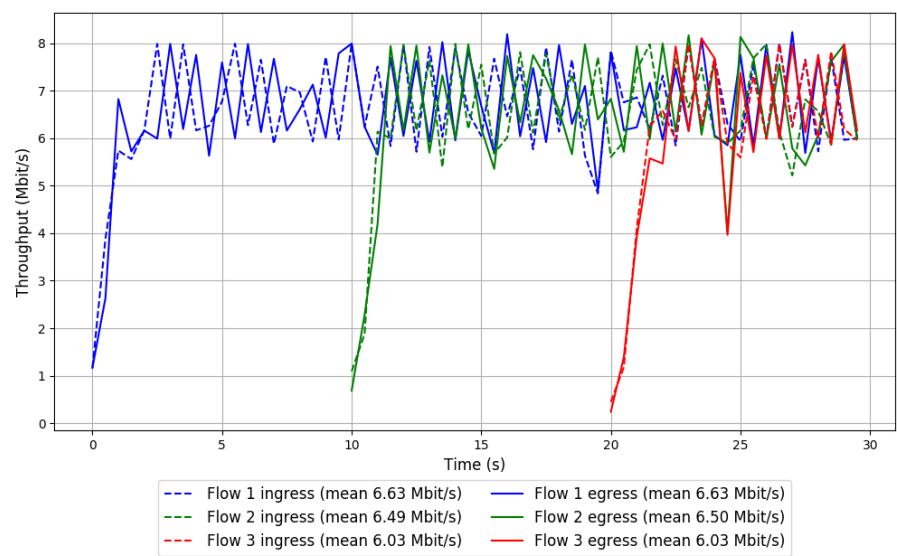
-- Flow 3:

Average throughput: 6.03 Mbit/s

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

Loss rate: 0.00%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2017-12-12 15:28:13

End at: 2017-12-12 15:28:43

Below is generated by plot.py at 2017-12-12 17:29:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 12.84 Mbit/s

95th percentile per-packet one-way delay: 64.728 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 6.49 Mbit/s

95th percentile per-packet one-way delay: 64.668 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 6.49 Mbit/s

95th percentile per-packet one-way delay: 64.806 ms

Loss rate: 0.00%

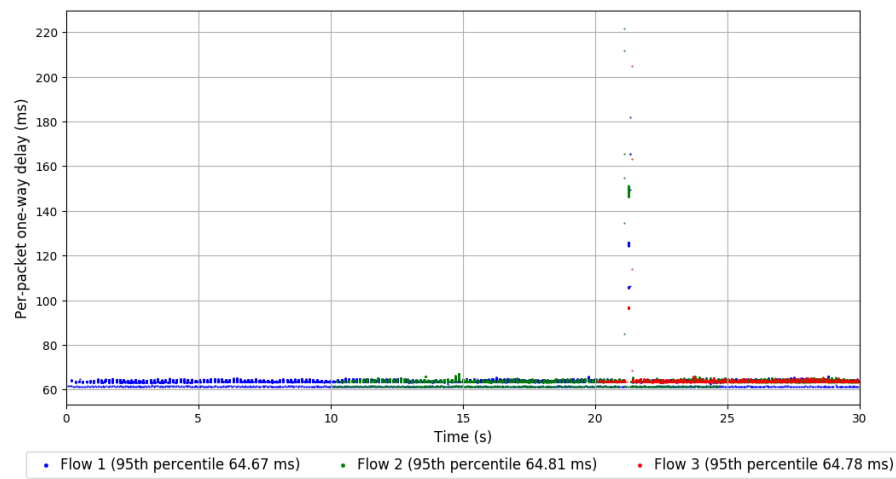
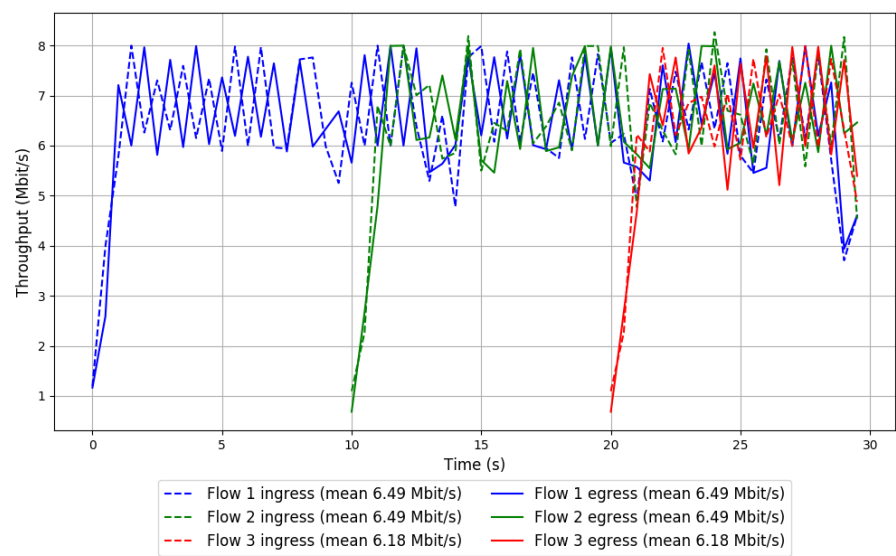
-- Flow 3:

Average throughput: 6.18 Mbit/s

95th percentile per-packet one-way delay: 64.784 ms

Loss rate: 0.00%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2017-12-12 15:40:24

End at: 2017-12-12 15:40:54

Below is generated by plot.py at 2017-12-12 17:29:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 12.75 Mbit/s

95th percentile per-packet one-way delay: 64.690 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 6.45 Mbit/s

95th percentile per-packet one-way delay: 64.697 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 6.33 Mbit/s

95th percentile per-packet one-way delay: 64.602 ms

Loss rate: 0.00%

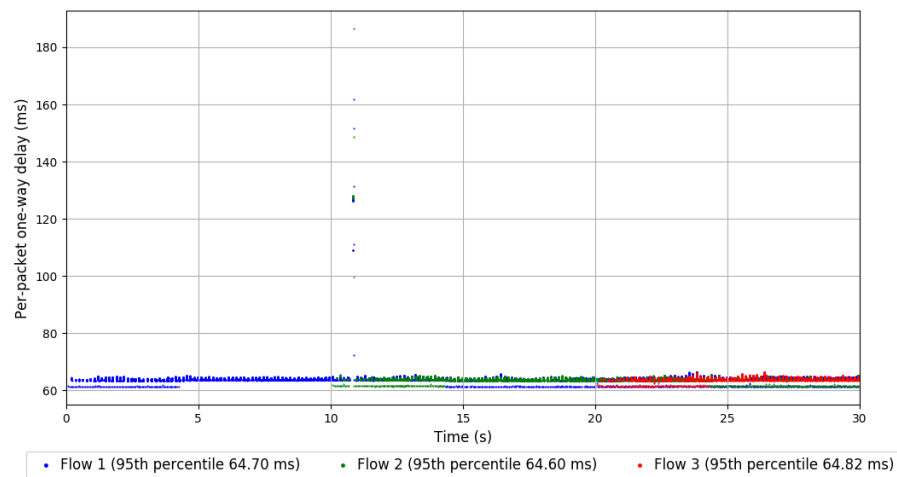
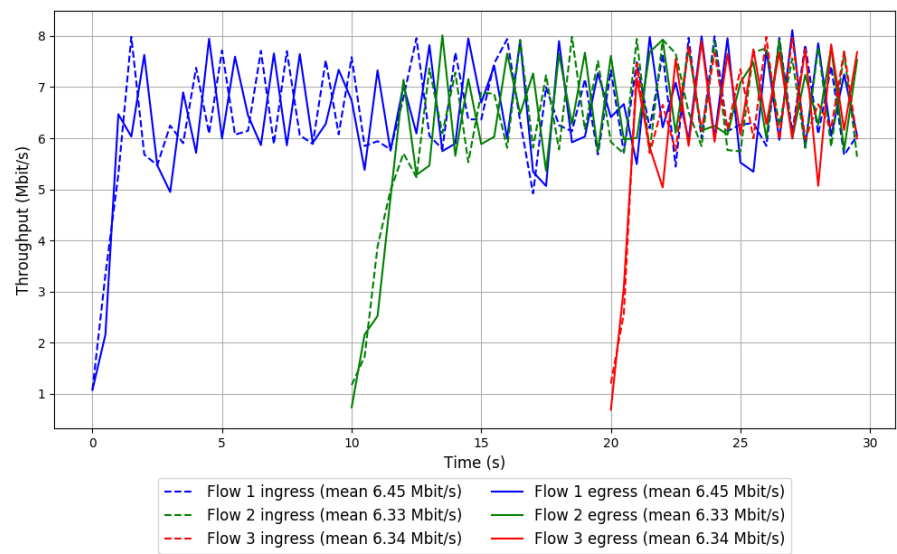
-- Flow 3:

Average throughput: 6.34 Mbit/s

95th percentile per-packet one-way delay: 64.819 ms

Loss rate: 0.00%

Run 10: Report of Sprout — Data Link

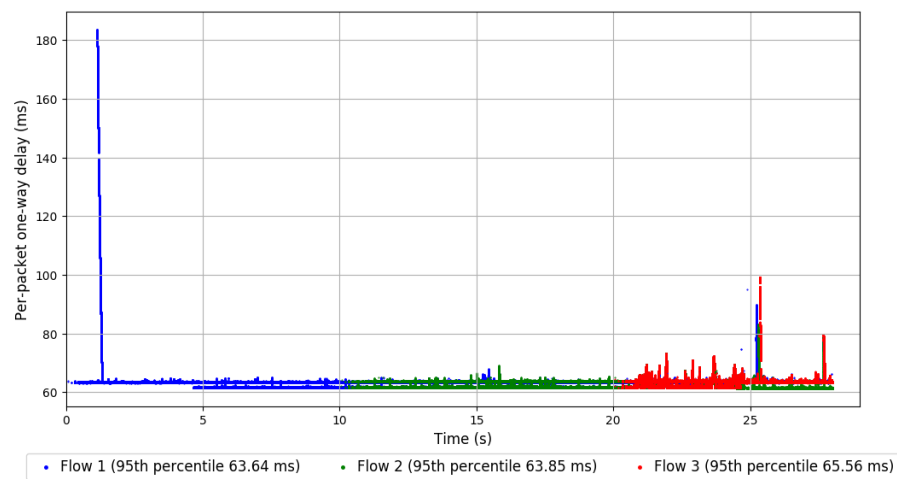
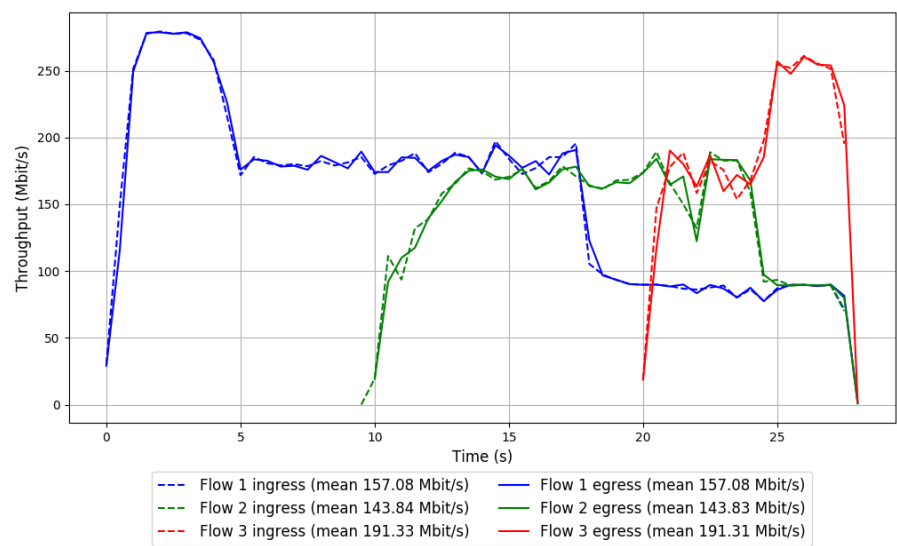


```
Run 1: Statistics of TaoVA-100x

Start at: 2017-12-12 13:42:01
End at: 2017-12-12 13:42:31

# Below is generated by plot.py at 2017-12-12 17:35:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 303.81 Mbit/s
95th percentile per-packet one-way delay: 63.846 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 157.08 Mbit/s
95th percentile per-packet one-way delay: 63.640 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 143.83 Mbit/s
95th percentile per-packet one-way delay: 63.849 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 191.31 Mbit/s
95th percentile per-packet one-way delay: 65.560 ms
Loss rate: 0.01%
```


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

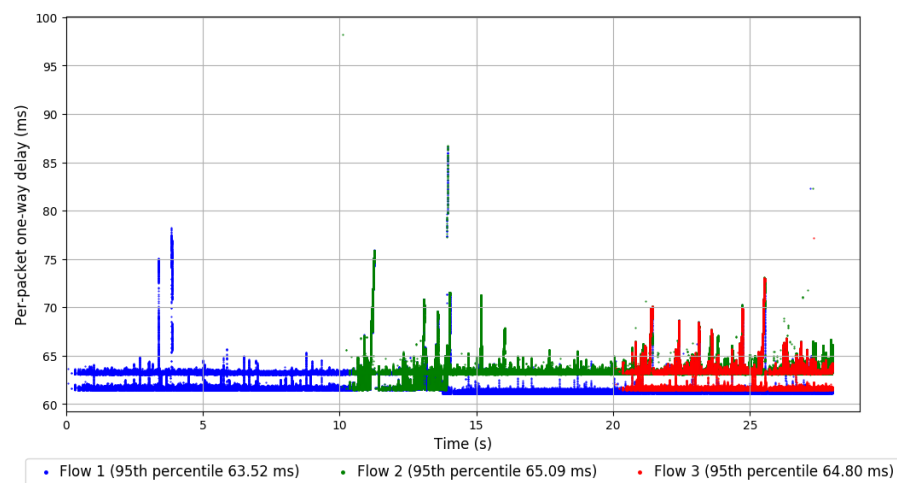
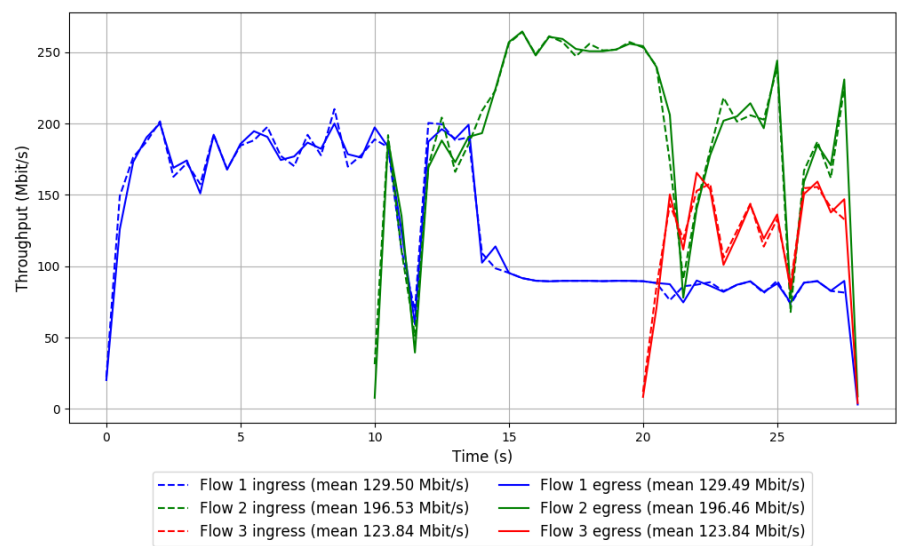


```
Run 2: Statistics of TaoVA-100x

Start at: 2017-12-12 13:54:22
End at: 2017-12-12 13:54:52

# Below is generated by plot.py at 2017-12-12 17:35:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 290.72 Mbit/s
95th percentile per-packet one-way delay: 64.477 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 129.49 Mbit/s
95th percentile per-packet one-way delay: 63.519 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 196.46 Mbit/s
95th percentile per-packet one-way delay: 65.090 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 123.84 Mbit/s
95th percentile per-packet one-way delay: 64.801 ms
Loss rate: 0.00%
```

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



Run 3: Statistics of TaoVA-100x

Start at: 2017-12-12 14:06:45

End at: 2017-12-12 14:07:15

Below is generated by plot.py at 2017-12-12 17:35:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 299.08 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 161.78 Mbit/s

95th percentile per-packet one-way delay: 63.649 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 158.43 Mbit/s

95th percentile per-packet one-way delay: 63.941 ms

Loss rate: 0.00%

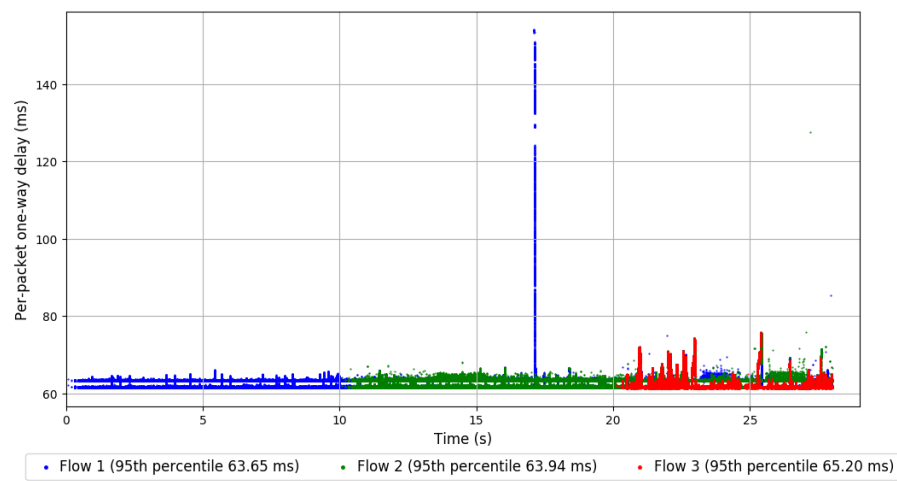
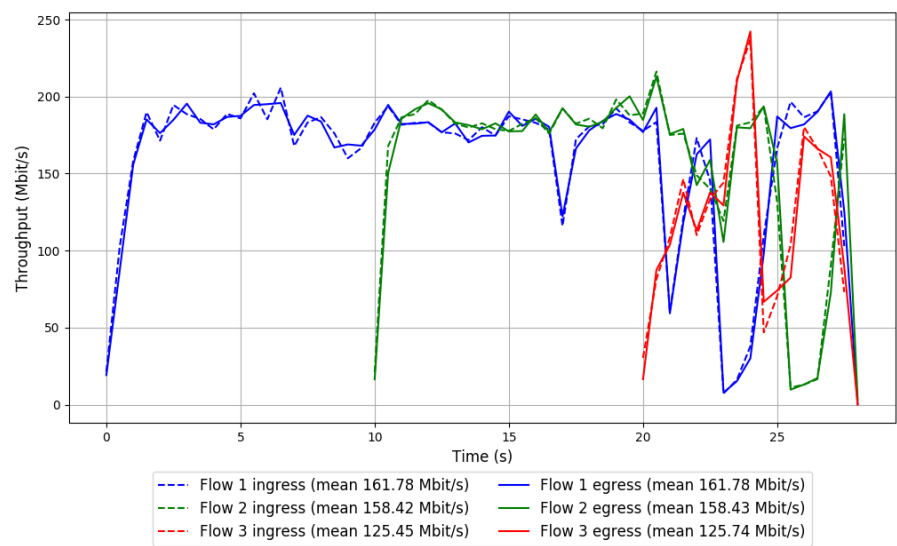
-- Flow 3:

Average throughput: 125.74 Mbit/s

95th percentile per-packet one-way delay: 65.196 ms

Loss rate: 0.00%

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



Run 4: Statistics of TaoVA-100x

Start at: 2017-12-12 14:19:13

End at: 2017-12-12 14:19:43

Below is generated by plot.py at 2017-12-12 17:35:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 249.23 Mbit/s

95th percentile per-packet one-way delay: 71.466 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 213.60 Mbit/s

95th percentile per-packet one-way delay: 69.830 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 32.91 Mbit/s

95th percentile per-packet one-way delay: 72.964 ms

Loss rate: 0.00%

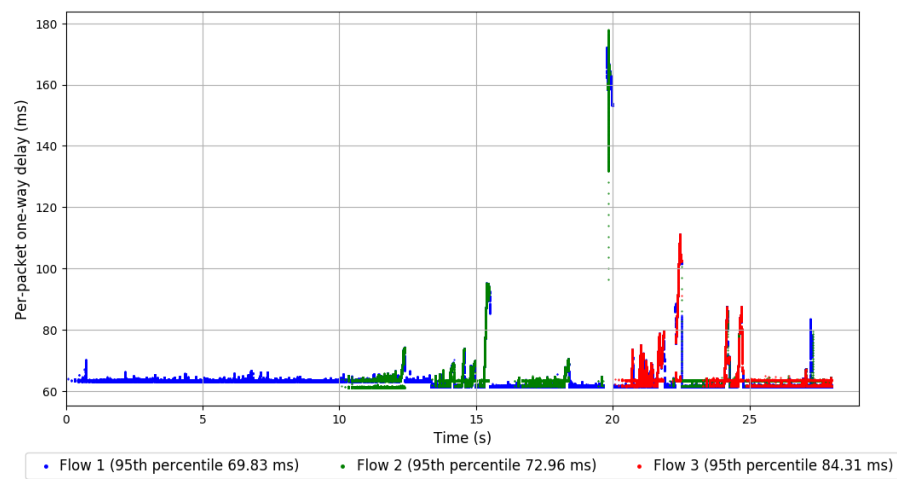
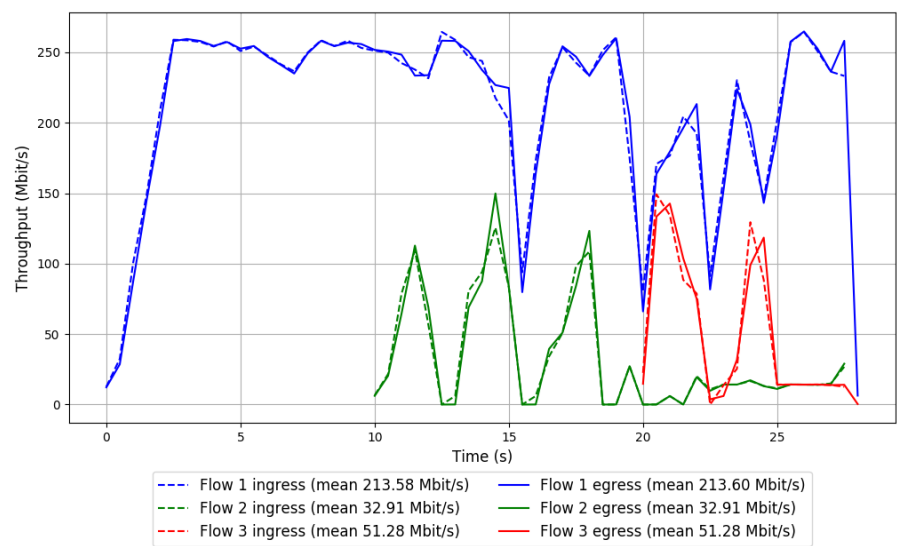
-- Flow 3:

Average throughput: 51.28 Mbit/s

95th percentile per-packet one-way delay: 84.306 ms

Loss rate: 0.00%

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



Run 5: Statistics of TaoVA-100x

Start at: 2017-12-12 14:31:31

End at: 2017-12-12 14:32:01

Below is generated by plot.py at 2017-12-12 17:36:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 322.55 Mbit/s

95th percentile per-packet one-way delay: 64.007 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 204.11 Mbit/s

95th percentile per-packet one-way delay: 63.795 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 161.95 Mbit/s

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

Loss rate: 0.00%

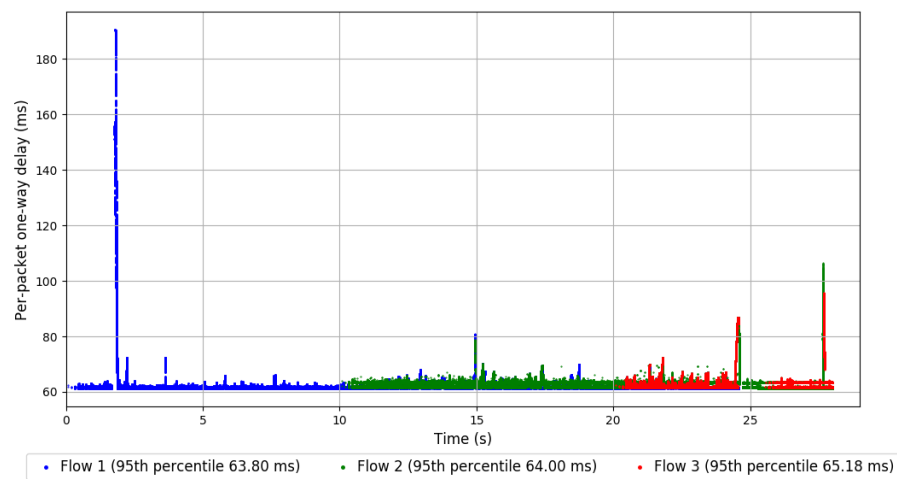
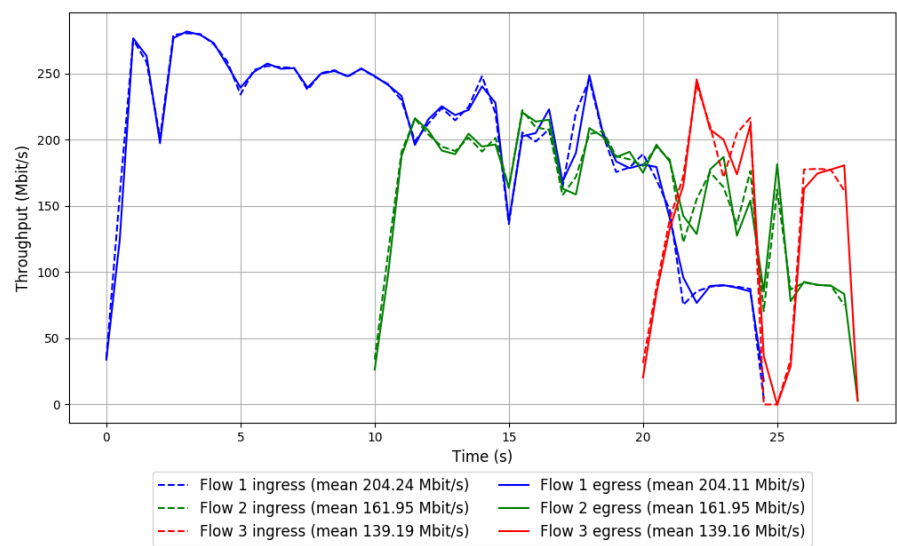
-- Flow 3:

Average throughput: 139.16 Mbit/s

95th percentile per-packet one-way delay: 65.182 ms

Loss rate: 0.02%

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



Run 6: Statistics of TaoVA-100x

Start at: 2017-12-12 14:44:01

End at: 2017-12-12 14:44:31

Below is generated by plot.py at 2017-12-12 17:36:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 283.32 Mbit/s

95th percentile per-packet one-way delay: 64.459 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 172.30 Mbit/s

95th percentile per-packet one-way delay: 63.934 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 158.45 Mbit/s

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

Loss rate: 0.00%

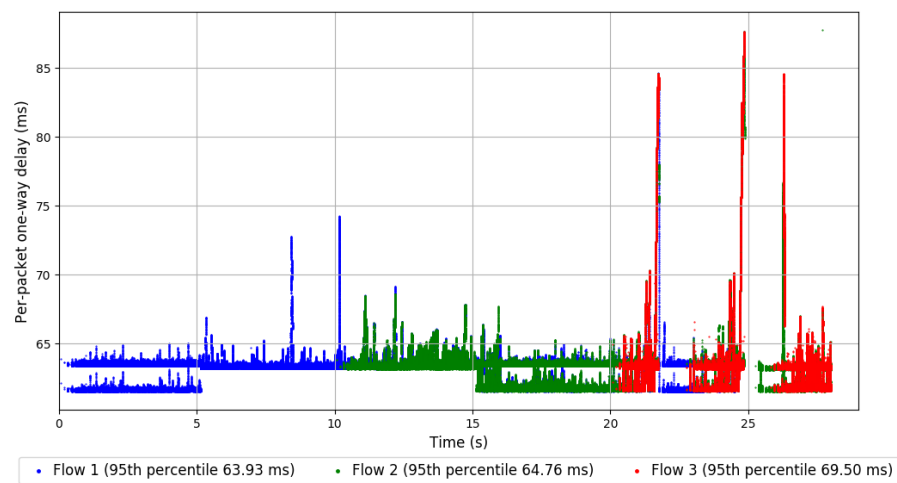
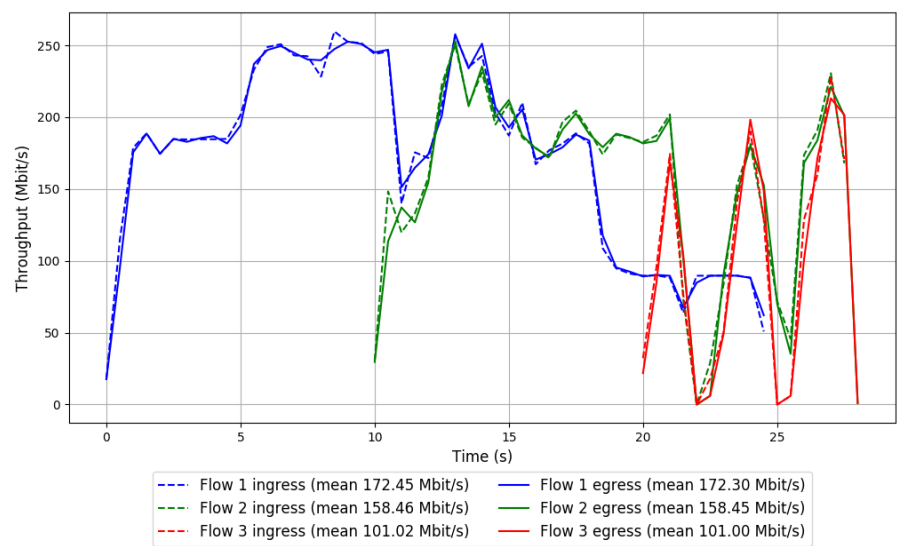
-- Flow 3:

Average throughput: 101.00 Mbit/s

95th percentile per-packet one-way delay: 69.497 ms

Loss rate: 0.00%

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



Run 7: Statistics of TaoVA-100x

Start at: 2017-12-12 14:56:26

End at: 2017-12-12 14:56:56

Below is generated by plot.py at 2017-12-12 17:36:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 249.52 Mbit/s

95th percentile per-packet one-way delay: 64.707 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 122.26 Mbit/s

95th percentile per-packet one-way delay: 63.809 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 148.95 Mbit/s

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

Loss rate: 0.01%

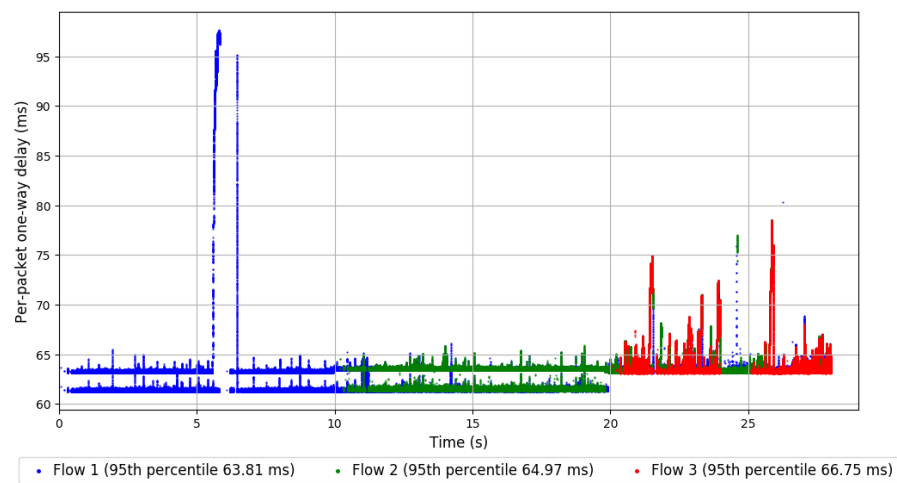
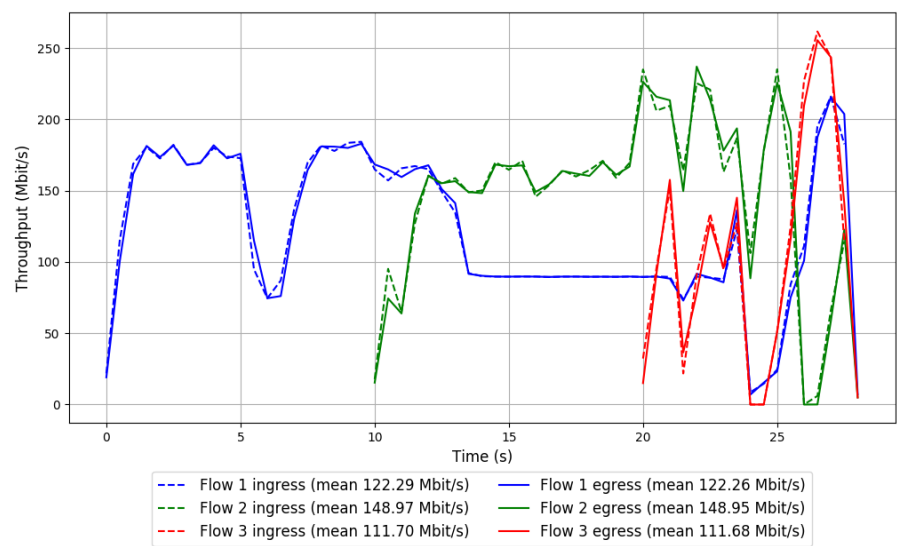
-- Flow 3:

Average throughput: 111.68 Mbit/s

95th percentile per-packet one-way delay: 66.751 ms

Loss rate: 0.03%

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



Run 8: Statistics of TaoVA-100x

Start at: 2017-12-12 15:08:45

End at: 2017-12-12 15:09:15

Below is generated by plot.py at 2017-12-12 17:37:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 233.66 Mbit/s

95th percentile per-packet one-way delay: 63.407 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 119.57 Mbit/s

95th percentile per-packet one-way delay: 63.300 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 156.17 Mbit/s

95th percentile per-packet one-way delay: 63.525 ms

Loss rate: 0.05%

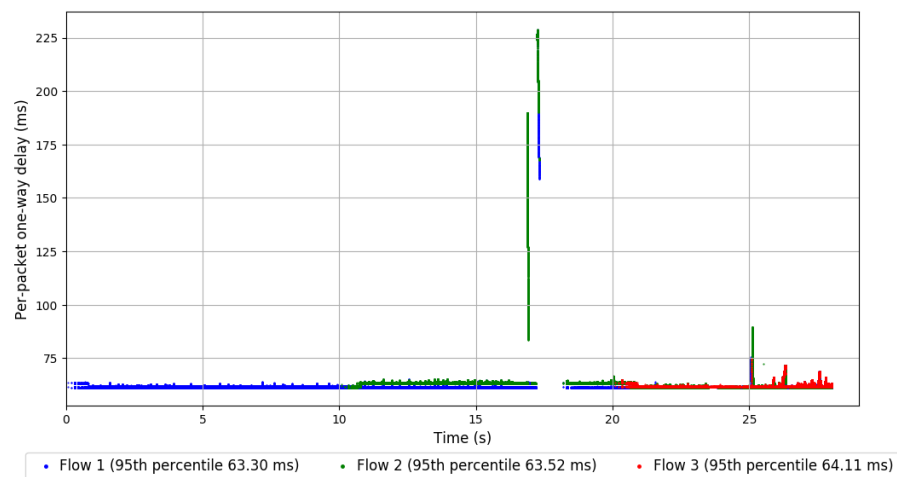
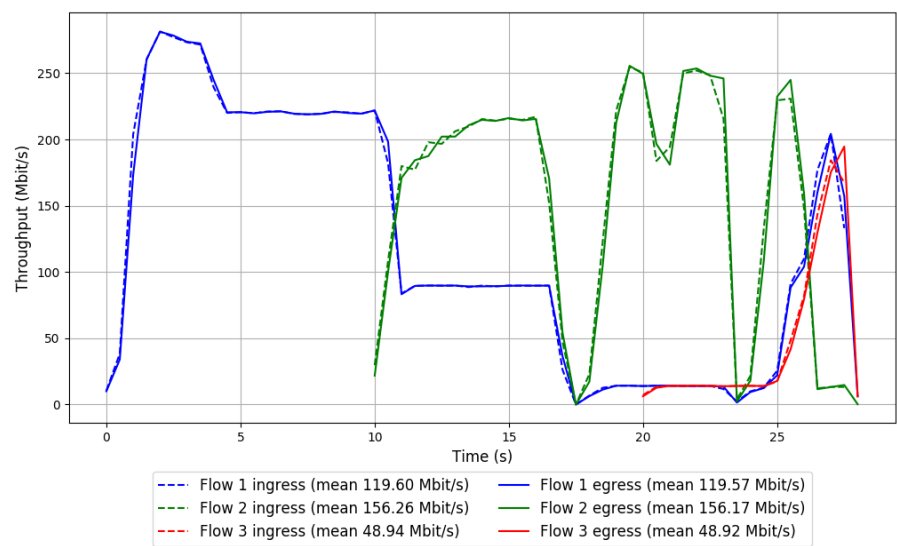
-- Flow 3:

Average throughput: 48.92 Mbit/s

95th percentile per-packet one-way delay: 64.106 ms

Loss rate: 0.05%

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



Run 9: Statistics of TaoVA-100x

Start at: 2017-12-12 15:21:01

End at: 2017-12-12 15:21:31

Below is generated by plot.py at 2017-12-12 17:43:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 281.93 Mbit/s

95th percentile per-packet one-way delay: 65.030 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 152.63 Mbit/s

95th percentile per-packet one-way delay: 66.155 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 152.36 Mbit/s

95th percentile per-packet one-way delay: 64.061 ms

Loss rate: 0.00%

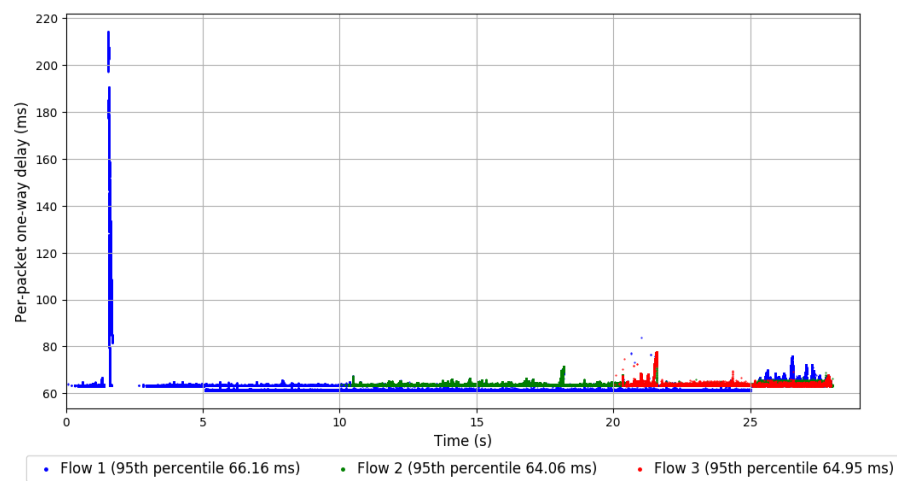
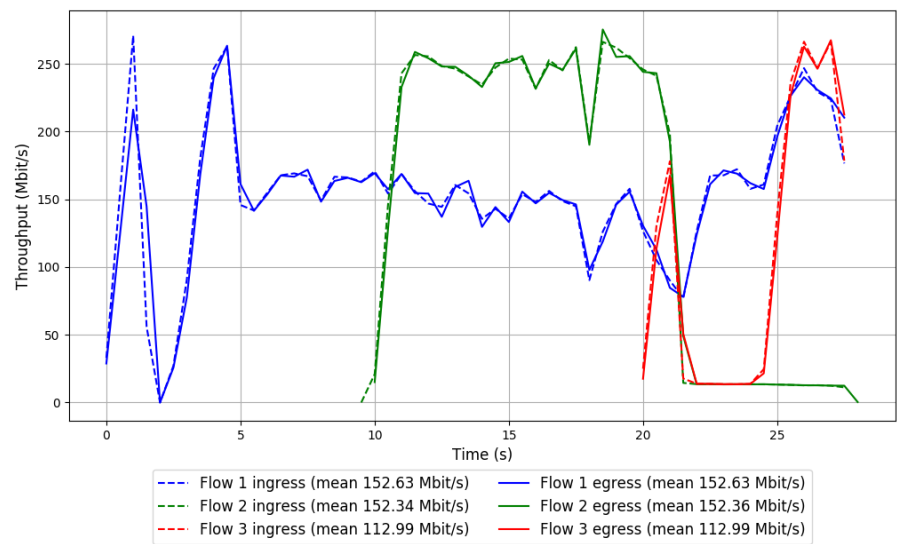
-- Flow 3:

Average throughput: 112.99 Mbit/s

95th percentile per-packet one-way delay: 64.953 ms

Loss rate: 0.00%

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

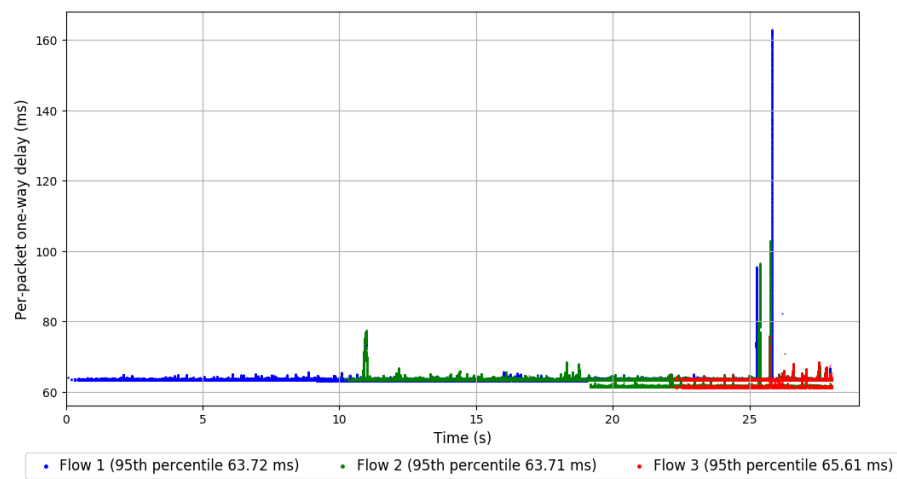
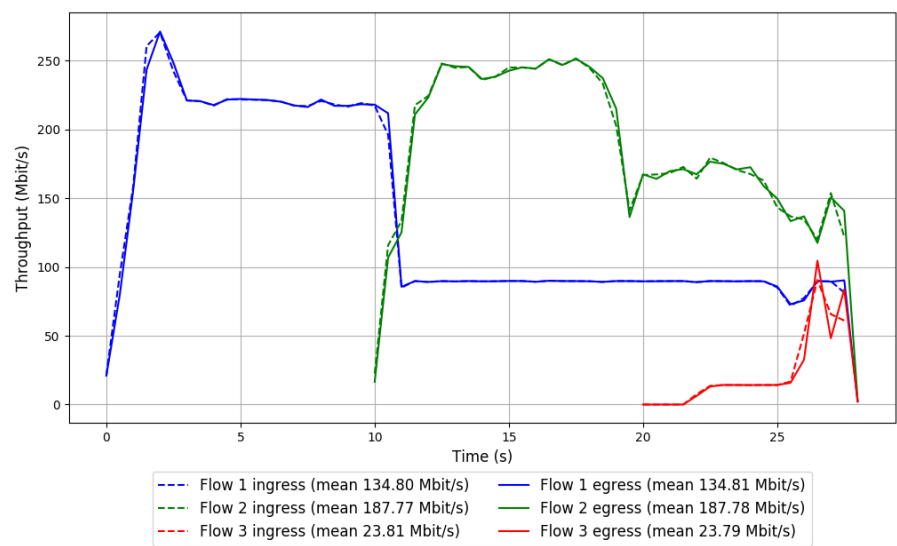


```
Run 10: Statistics of TaoVA-100x

Start at: 2017-12-12 15:33:07
End at: 2017-12-12 15:33:37

# Below is generated by plot.py at 2017-12-12 17:44:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 262.09 Mbit/s
95th percentile per-packet one-way delay: 63.727 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 134.81 Mbit/s
95th percentile per-packet one-way delay: 63.718 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 187.78 Mbit/s
95th percentile per-packet one-way delay: 63.708 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 23.79 Mbit/s
95th percentile per-packet one-way delay: 65.608 ms
Loss rate: 0.08%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2017-12-12 13:50:59

End at: 2017-12-12 13:51:29

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 175.08 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 81.28 Mbit/s

95th percentile per-packet one-way delay: 68.867 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 93.46 Mbit/s

95th percentile per-packet one-way delay: 66.447 ms

Loss rate: 0.00%

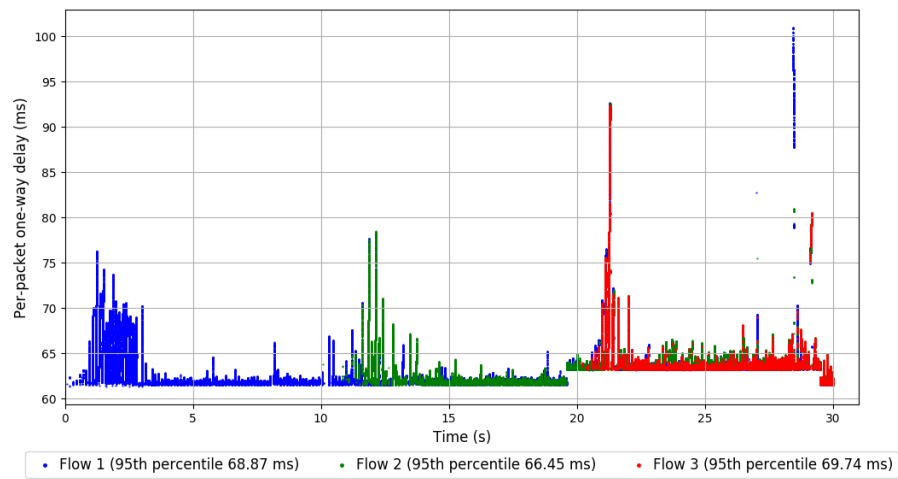
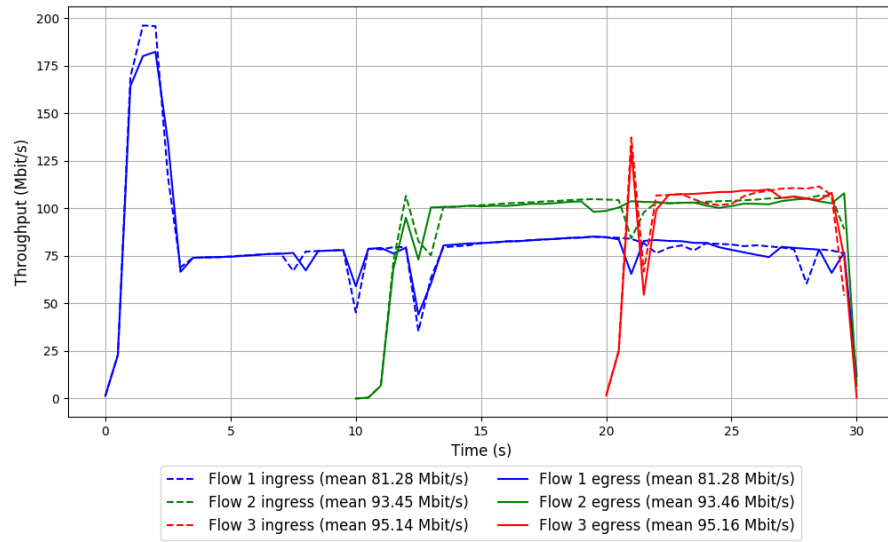
-- Flow 3:

Average throughput: 95.16 Mbit/s

95th percentile per-packet one-way delay: 69.739 ms

Loss rate: 0.00%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2017-12-12 14:03:25

End at: 2017-12-12 14:03:55

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 123.30 Mbit/s

95th percentile per-packet one-way delay: 64.447 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 88.32 Mbit/s

95th percentile per-packet one-way delay: 64.490 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 19.13 Mbit/s

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

Loss rate: 0.00%

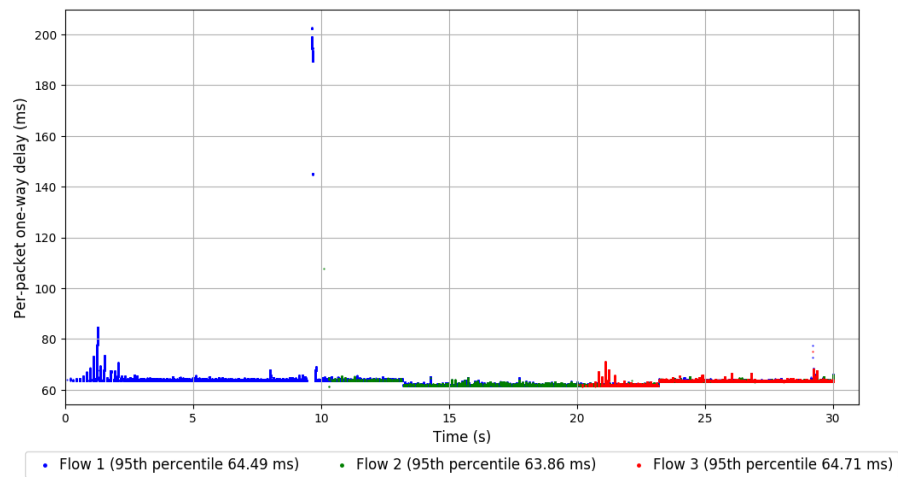
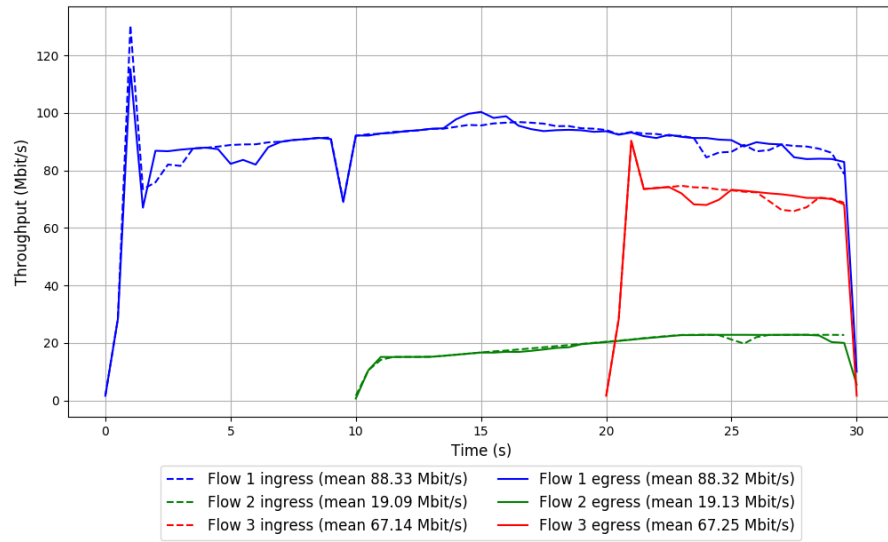
-- Flow 3:

Average throughput: 67.25 Mbit/s

95th percentile per-packet one-way delay: 64.713 ms

Loss rate: 0.00%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

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

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

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 165.19 Mbit/s

95th percentile per-packet one-way delay: 64.394 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 95.52 Mbit/s

95th percentile per-packet one-way delay: 64.118 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 55.43 Mbit/s

95th percentile per-packet one-way delay: 64.862 ms

Loss rate: 0.00%

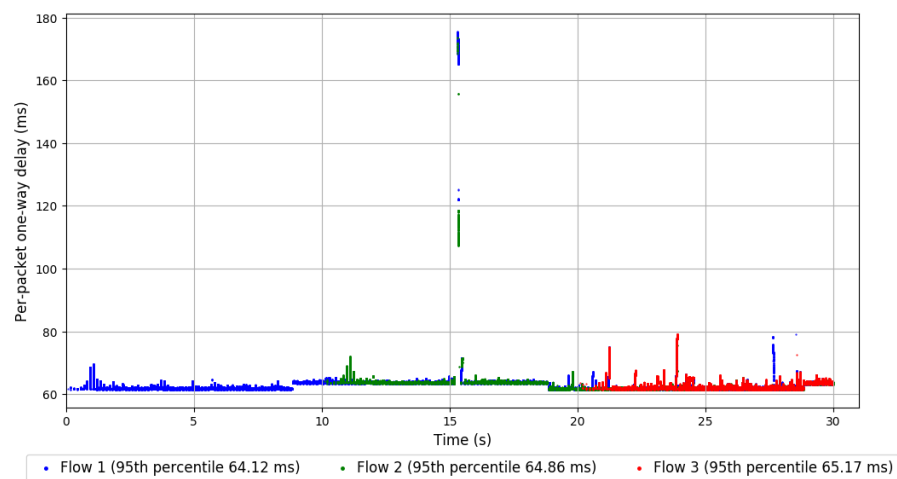
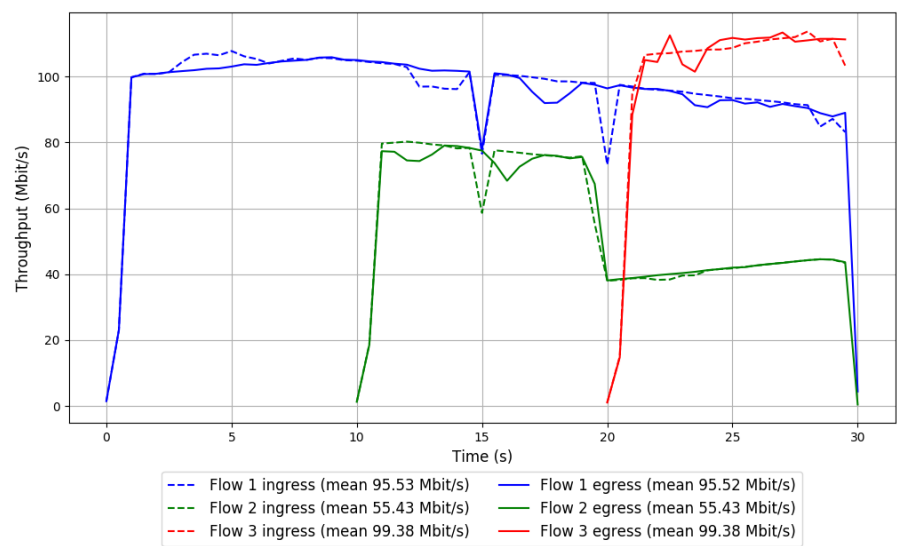
-- Flow 3:

Average throughput: 99.38 Mbit/s

95th percentile per-packet one-way delay: 65.175 ms

Loss rate: 0.00%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2017-12-12 14:28:12

End at: 2017-12-12 14:28:42

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 112.17 Mbit/s

95th percentile per-packet one-way delay: 68.190 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 59.47 Mbit/s

95th percentile per-packet one-way delay: 64.712 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 40.78 Mbit/s

95th percentile per-packet one-way delay: 70.127 ms

Loss rate: 0.01%

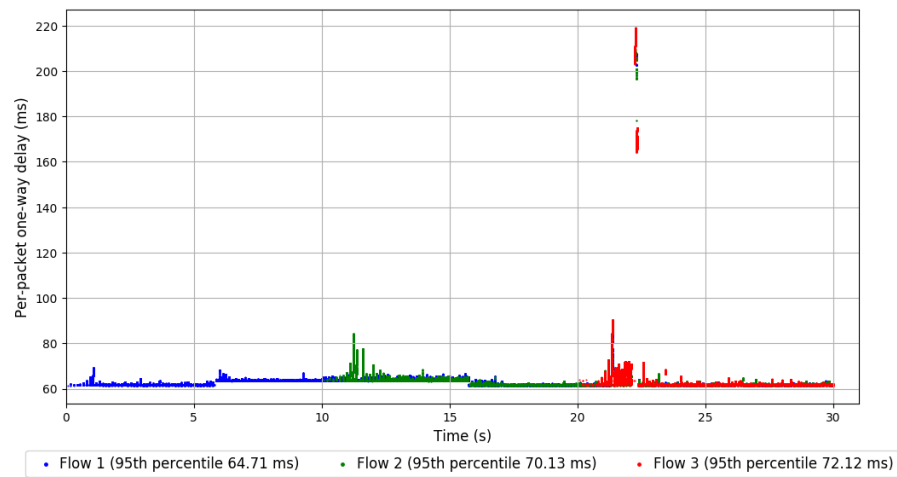
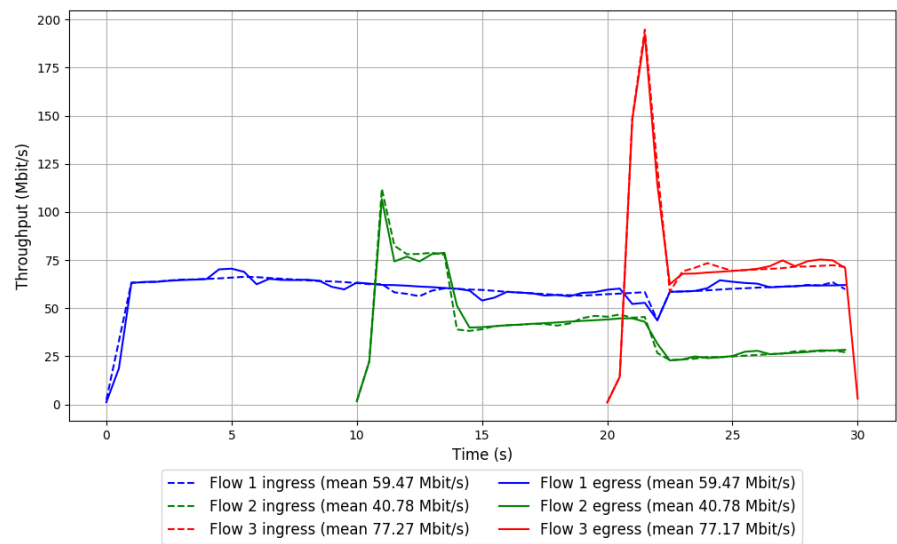
-- Flow 3:

Average throughput: 77.17 Mbit/s

95th percentile per-packet one-way delay: 72.117 ms

Loss rate: 0.15%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2017-12-12 14:40:39

End at: 2017-12-12 14:41:09

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 169.11 Mbit/s

95th percentile per-packet one-way delay: 65.659 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 90.47 Mbit/s

95th percentile per-packet one-way delay: 65.166 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 52.83 Mbit/s

95th percentile per-packet one-way delay: 67.157 ms

Loss rate: 0.00%

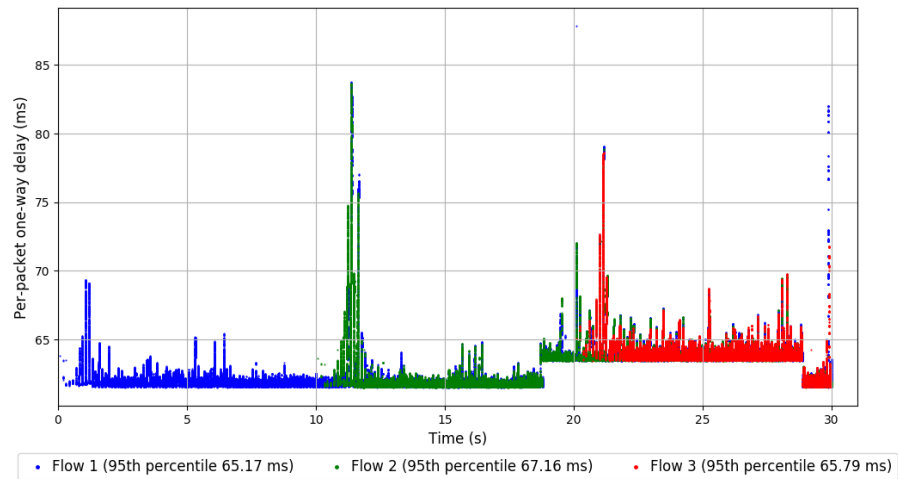
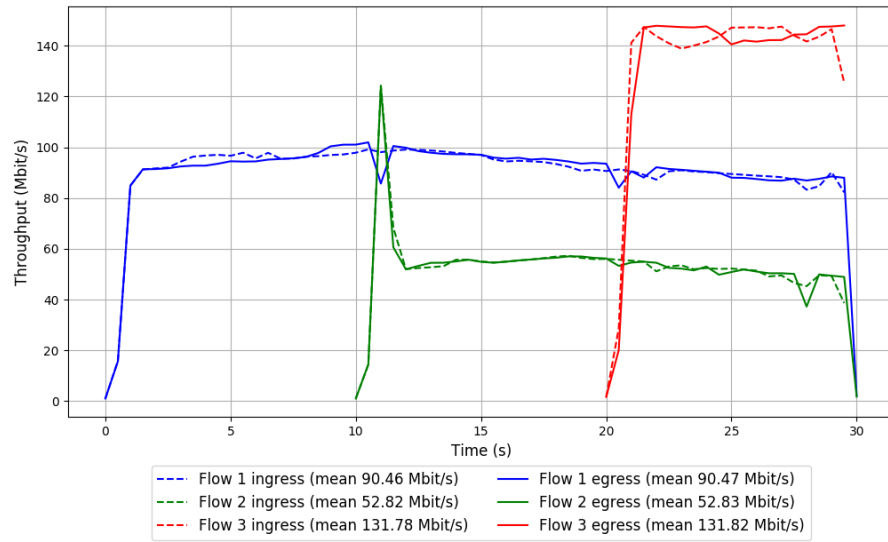
-- Flow 3:

Average throughput: 131.82 Mbit/s

95th percentile per-packet one-way delay: 65.791 ms

Loss rate: 0.00%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2017-12-12 14:53:05

End at: 2017-12-12 14:53:35

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 169.16 Mbit/s

95th percentile per-packet one-way delay: 64.220 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 100.75 Mbit/s

95th percentile per-packet one-way delay: 63.918 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 74.13 Mbit/s

95th percentile per-packet one-way delay: 64.309 ms

Loss rate: 0.04%

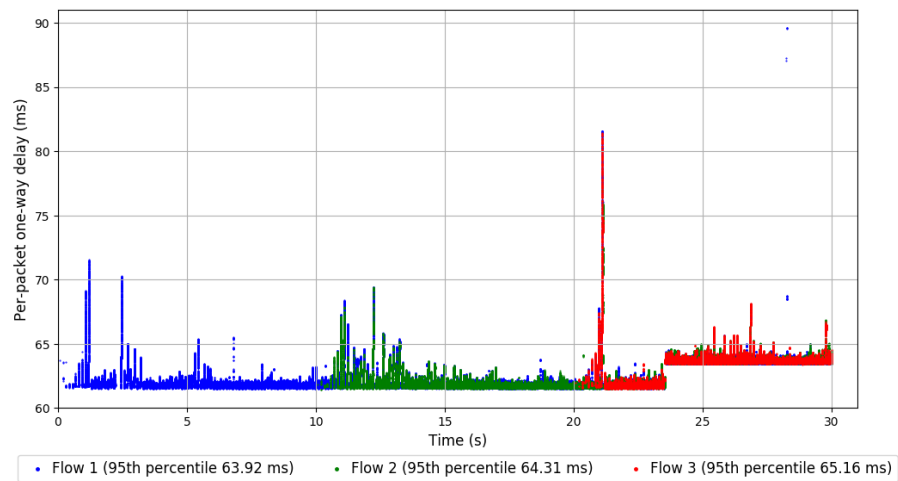
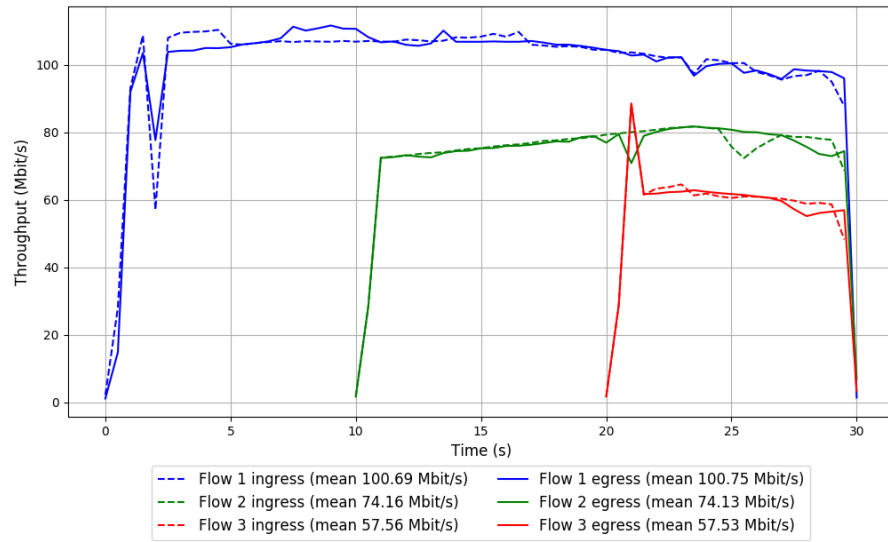
-- Flow 3:

Average throughput: 57.53 Mbit/s

95th percentile per-packet one-way delay: 65.159 ms

Loss rate: 0.05%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2017-12-12 15:05:25

End at: 2017-12-12 15:05:55

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 141.21 Mbit/s

95th percentile per-packet one-way delay: 64.302 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 47.38 Mbit/s

95th percentile per-packet one-way delay: 64.244 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 115.85 Mbit/s

95th percentile per-packet one-way delay: 64.185 ms

Loss rate: 0.00%

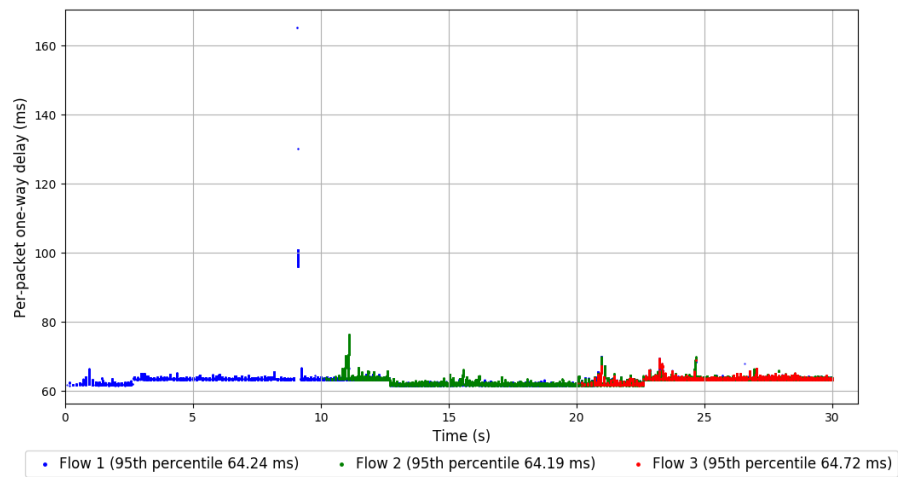
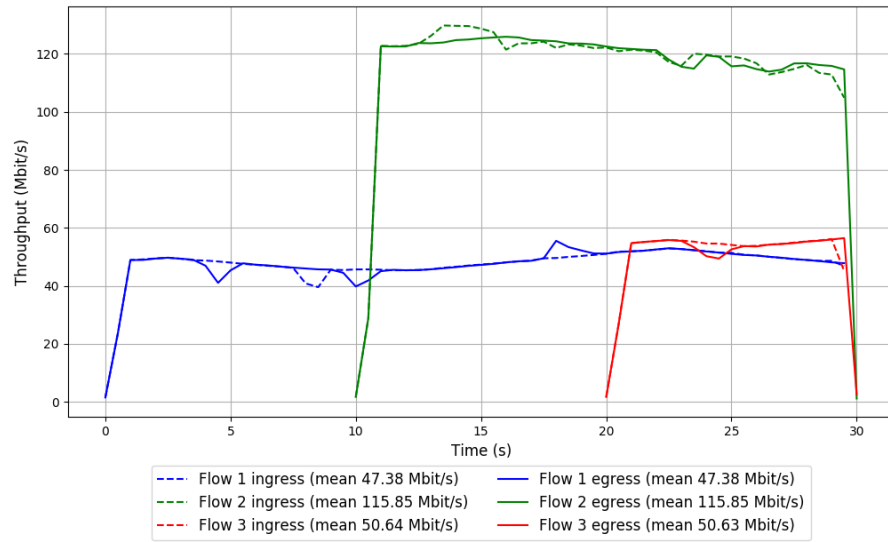
-- Flow 3:

Average throughput: 50.63 Mbit/s

95th percentile per-packet one-way delay: 64.718 ms

Loss rate: 0.01%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2017-12-12 15:17:45

End at: 2017-12-12 15:18:15

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 76.01 Mbit/s

95th percentile per-packet one-way delay: 65.077 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 17.49 Mbit/s

95th percentile per-packet one-way delay: 64.085 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 54.25 Mbit/s

95th percentile per-packet one-way delay: 64.756 ms

Loss rate: 0.00%

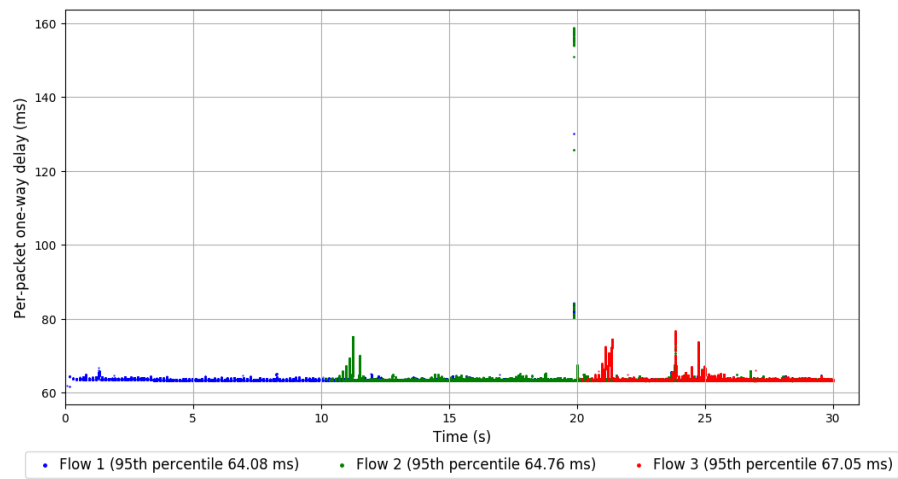
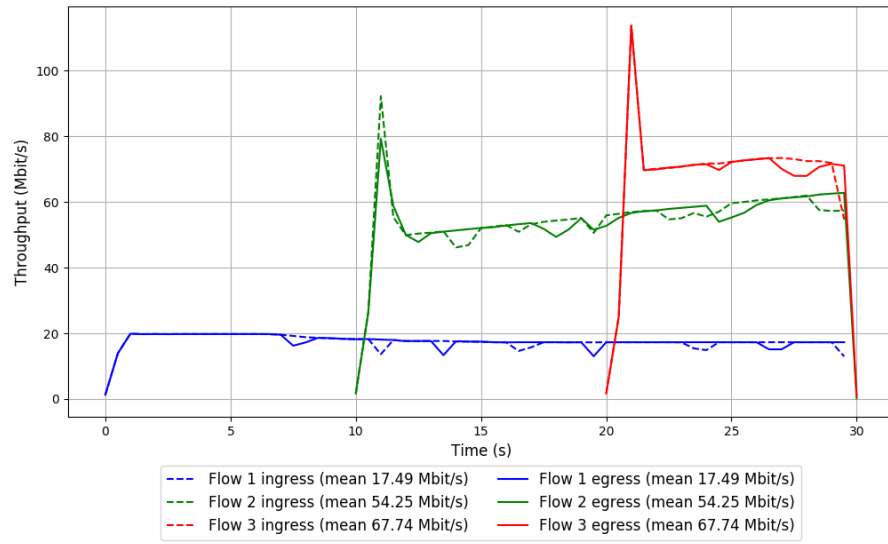
-- Flow 3:

Average throughput: 67.74 Mbit/s

95th percentile per-packet one-way delay: 67.048 ms

Loss rate: 0.01%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2017-12-12 15:29:48

End at: 2017-12-12 15:30:18

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.54 Mbit/s

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

Loss rate: 0.04%

-- Flow 1:

Average throughput: 75.10 Mbit/s

95th percentile per-packet one-way delay: 64.508 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 15.42 Mbit/s

95th percentile per-packet one-way delay: 64.293 ms

Loss rate: 0.01%

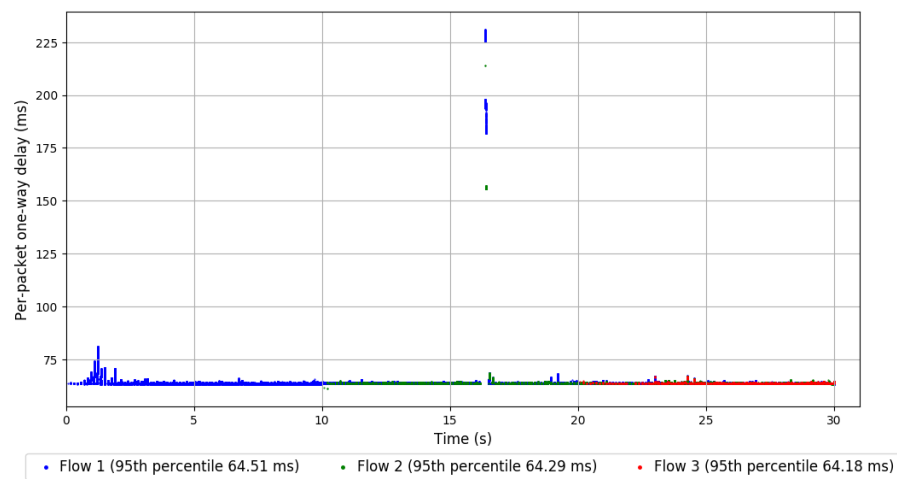
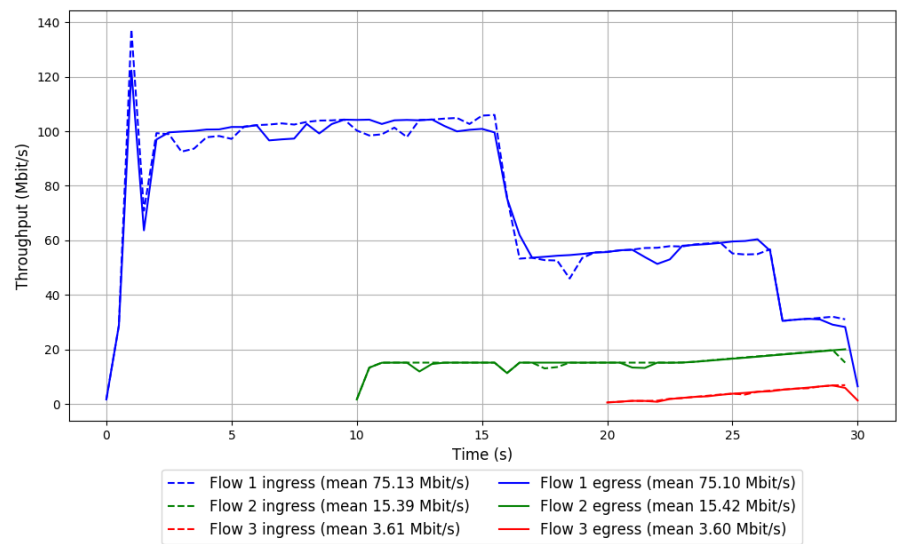
-- Flow 3:

Average throughput: 3.60 Mbit/s

95th percentile per-packet one-way delay: 64.183 ms

Loss rate: 0.13%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2017-12-12 15:42:01

End at: 2017-12-12 15:42:31

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 116.60 Mbit/s

95th percentile per-packet one-way delay: 71.261 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 18.00 Mbit/s

95th percentile per-packet one-way delay: 67.618 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 140.91 Mbit/s

95th percentile per-packet one-way delay: 71.489 ms

Loss rate: 0.00%

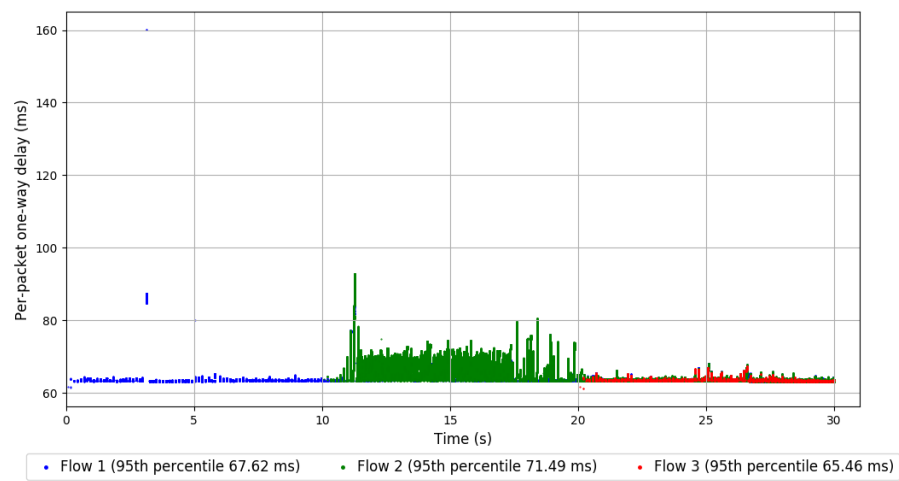
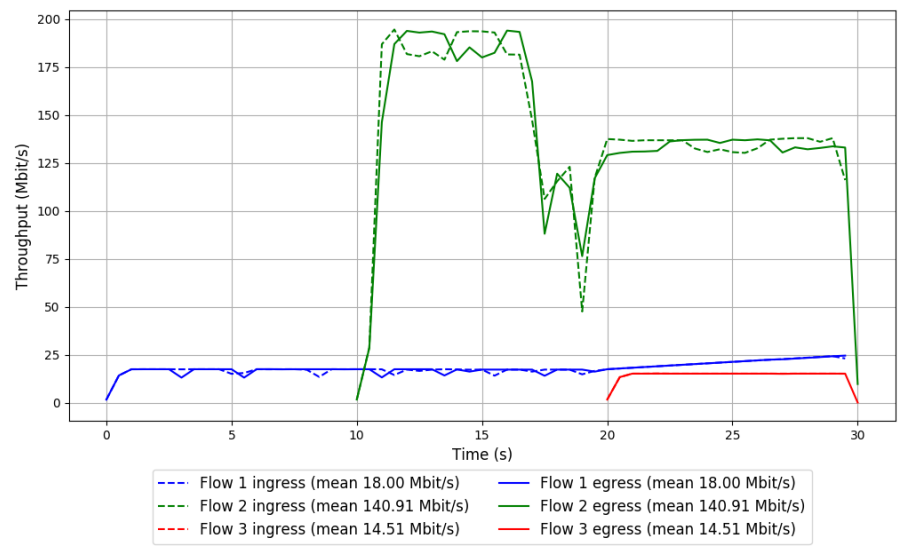
-- Flow 3:

Average throughput: 14.51 Mbit/s

95th percentile per-packet one-way delay: 65.463 ms

Loss rate: 0.00%

Run 10: Report of TCP Vegas — Data Link

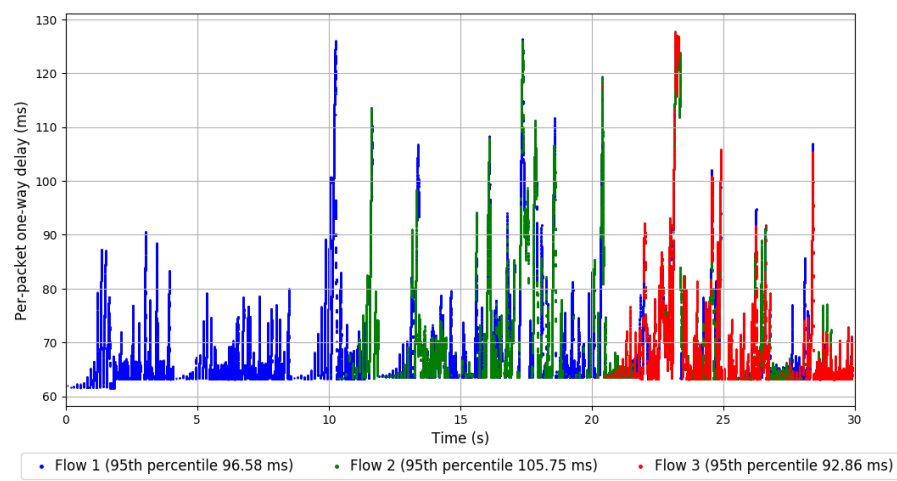
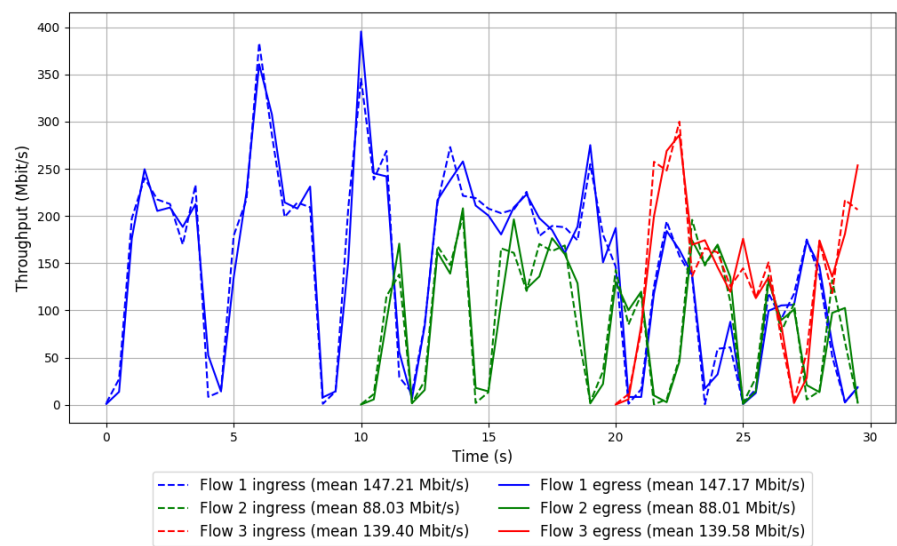


```
Run 1: Statistics of Verus

Start at: 2017-12-12 13:44:46
End at: 2017-12-12 13:45:16

# Below is generated by plot.py at 2017-12-12 17:44:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 251.28 Mbit/s
95th percentile per-packet one-way delay: 99.146 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 147.17 Mbit/s
95th percentile per-packet one-way delay: 96.584 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 88.01 Mbit/s
95th percentile per-packet one-way delay: 105.745 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 139.58 Mbit/s
95th percentile per-packet one-way delay: 92.861 ms
Loss rate: 0.00%
```


Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2017-12-12 13:57:07

End at: 2017-12-12 13:57:37

Below is generated by plot.py at 2017-12-12 17:45:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 313.69 Mbit/s

95th percentile per-packet one-way delay: 187.933 ms

Loss rate: 0.29%

-- Flow 1:

Average throughput: 248.25 Mbit/s

95th percentile per-packet one-way delay: 185.781 ms

Loss rate: 0.29%

-- Flow 2:

Average throughput: 77.65 Mbit/s

95th percentile per-packet one-way delay: 192.192 ms

Loss rate: 0.29%

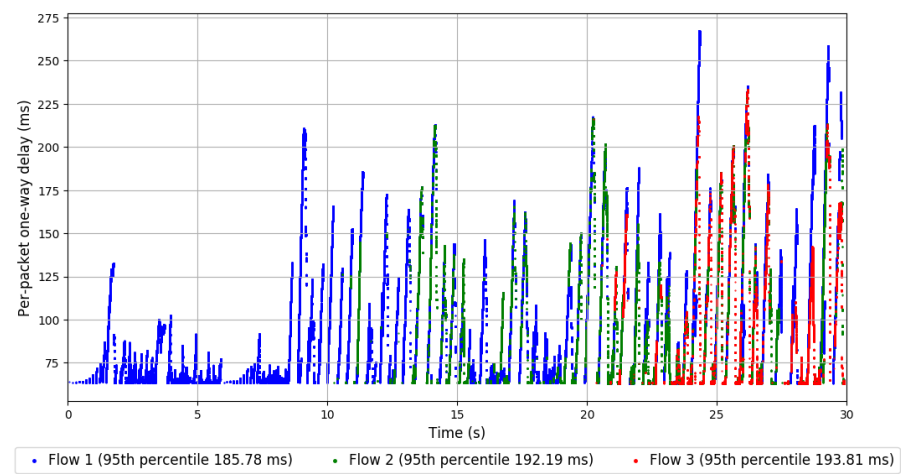
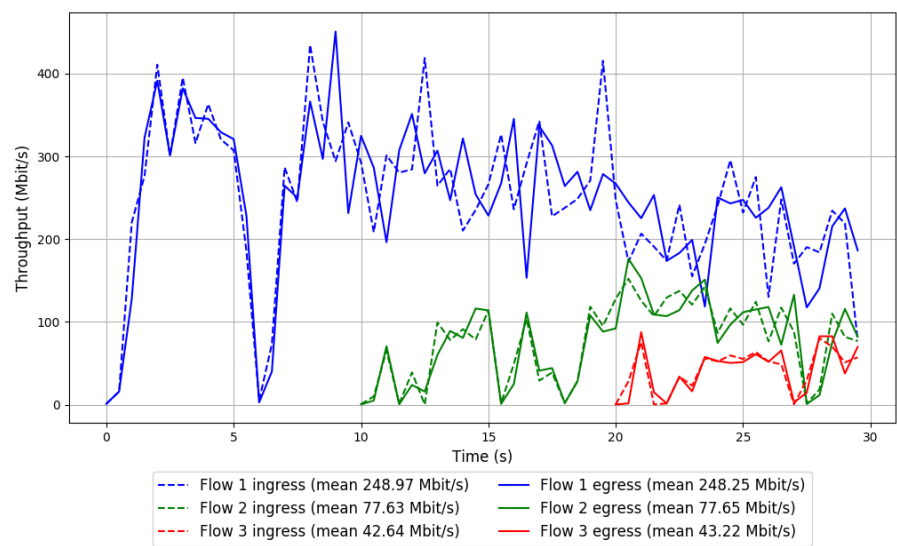
-- Flow 3:

Average throughput: 43.22 Mbit/s

95th percentile per-packet one-way delay: 193.806 ms

Loss rate: 0.26%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2017-12-12 14:09:31

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

Below is generated by plot.py at 2017-12-12 17:45:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 261.59 Mbit/s

95th percentile per-packet one-way delay: 135.362 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 166.15 Mbit/s

95th percentile per-packet one-way delay: 131.216 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 108.86 Mbit/s

95th percentile per-packet one-way delay: 137.059 ms

Loss rate: 0.00%

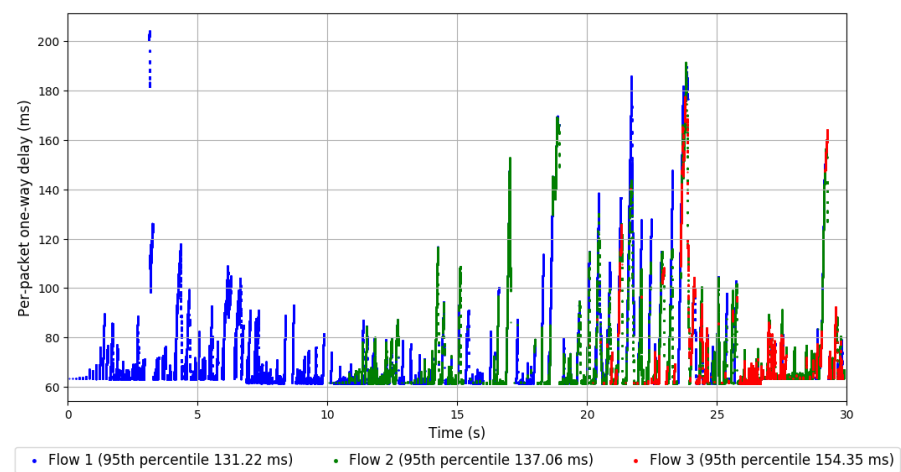
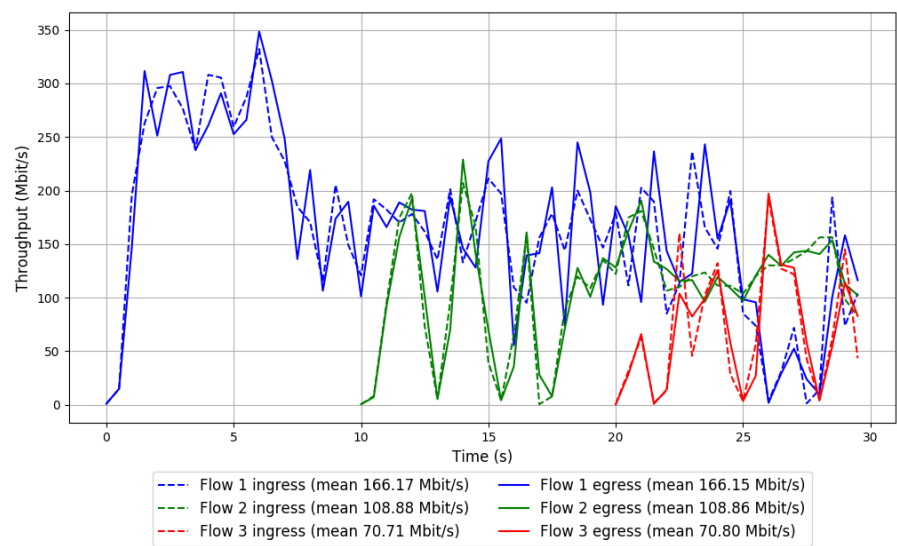
-- Flow 3:

Average throughput: 70.80 Mbit/s

95th percentile per-packet one-way delay: 154.352 ms

Loss rate: 0.00%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2017-12-12 14:21:53

End at: 2017-12-12 14:22:23

Below is generated by plot.py at 2017-12-12 17:45:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 267.22 Mbit/s

95th percentile per-packet one-way delay: 153.760 ms

Loss rate: 0.57%

-- Flow 1:

Average throughput: 164.53 Mbit/s

95th percentile per-packet one-way delay: 125.057 ms

Loss rate: 0.20%

-- Flow 2:

Average throughput: 106.26 Mbit/s

95th percentile per-packet one-way delay: 148.685 ms

Loss rate: 0.64%

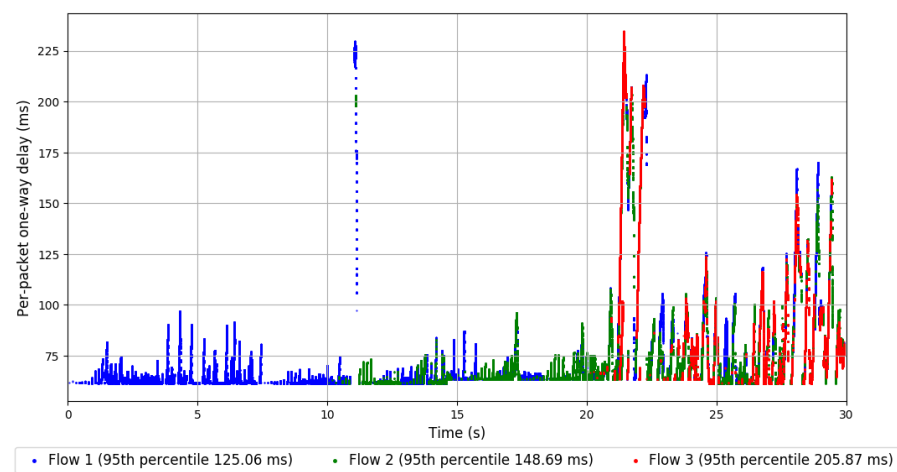
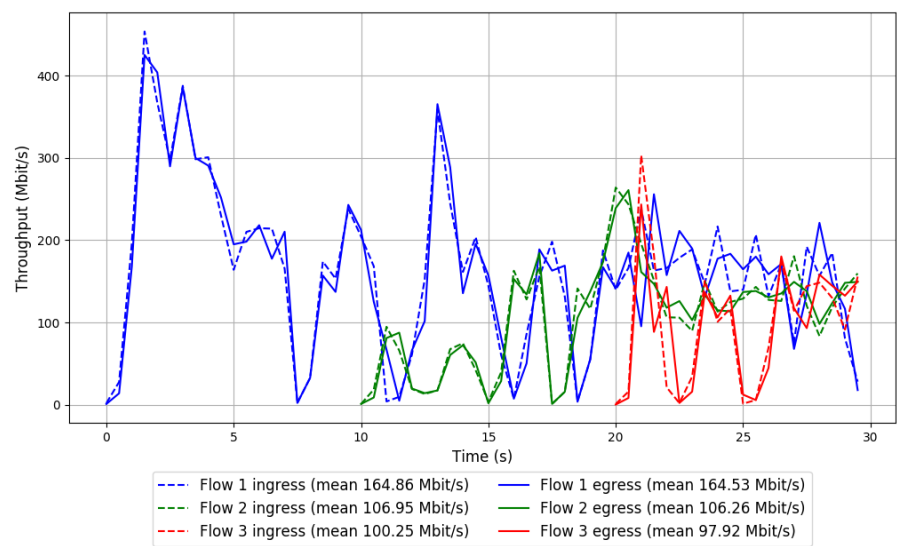
-- Flow 3:

Average throughput: 97.92 Mbit/s

95th percentile per-packet one-way delay: 205.865 ms

Loss rate: 2.32%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2017-12-12 14:34:19

End at: 2017-12-12 14:34:49

Below is generated by plot.py at 2017-12-12 17:46:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 294.51 Mbit/s

95th percentile per-packet one-way delay: 133.144 ms

Loss rate: 0.27%

-- Flow 1:

Average throughput: 175.32 Mbit/s

95th percentile per-packet one-way delay: 124.883 ms

Loss rate: 0.27%

-- Flow 2:

Average throughput: 131.81 Mbit/s

95th percentile per-packet one-way delay: 133.275 ms

Loss rate: 0.19%

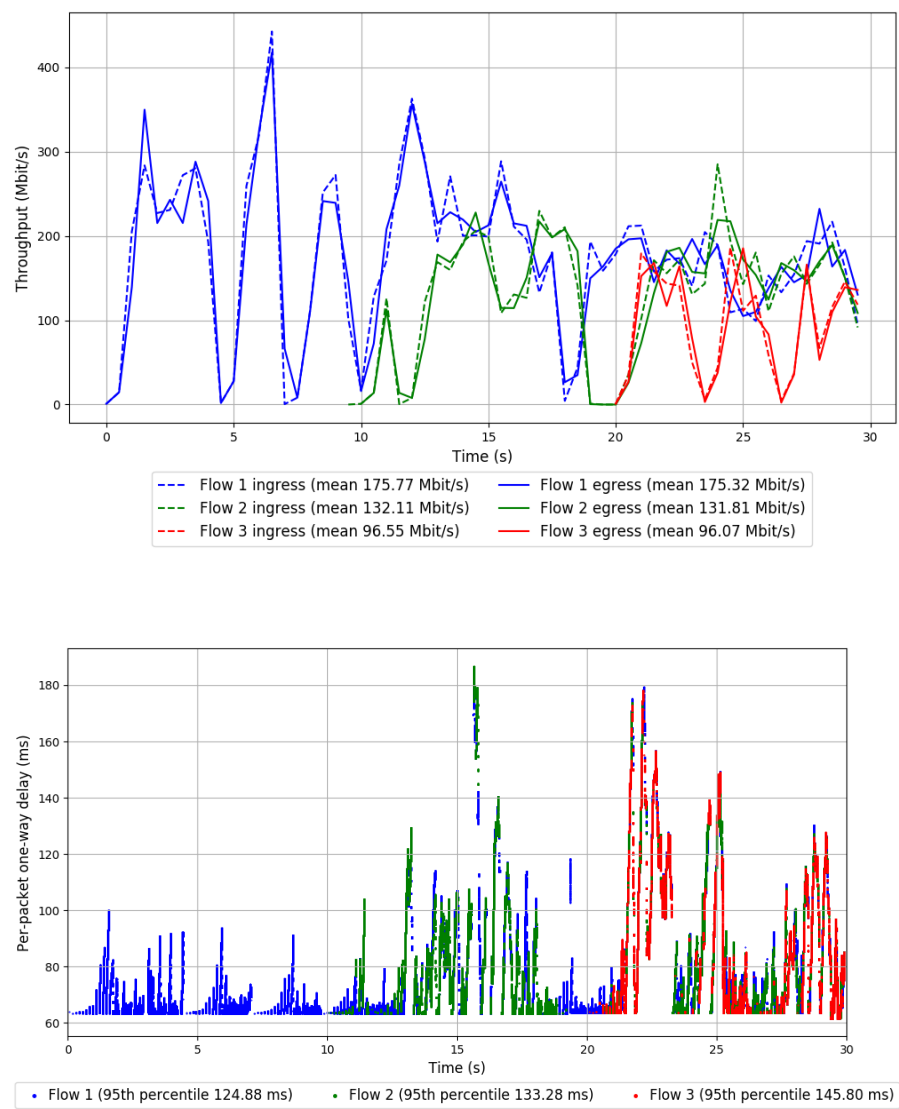
-- Flow 3:

Average throughput: 96.07 Mbit/s

95th percentile per-packet one-way delay: 145.804 ms

Loss rate: 0.49%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2017-12-12 14:46:44

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

Below is generated by plot.py at 2017-12-12 17:46:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 314.34 Mbit/s

95th percentile per-packet one-way delay: 213.921 ms

Loss rate: 1.59%

-- Flow 1:

Average throughput: 185.64 Mbit/s

95th percentile per-packet one-way delay: 148.581 ms

Loss rate: 0.76%

-- Flow 2:

Average throughput: 167.24 Mbit/s

95th percentile per-packet one-way delay: 265.419 ms

Loss rate: 2.42%

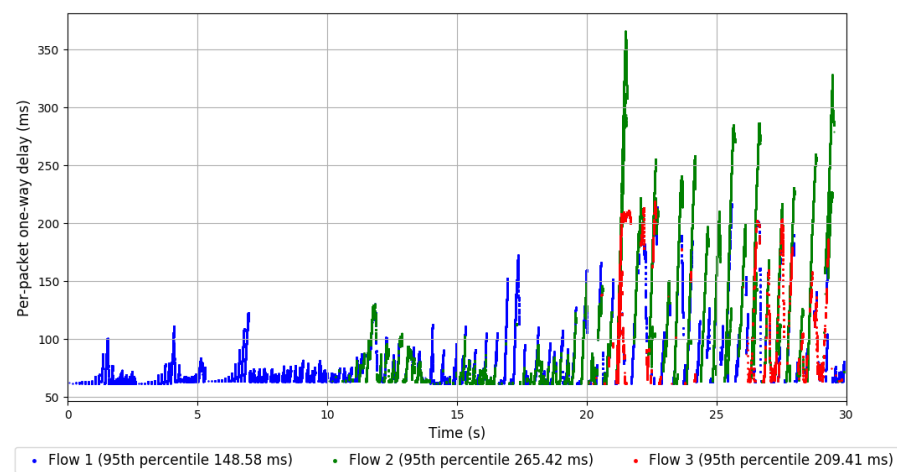
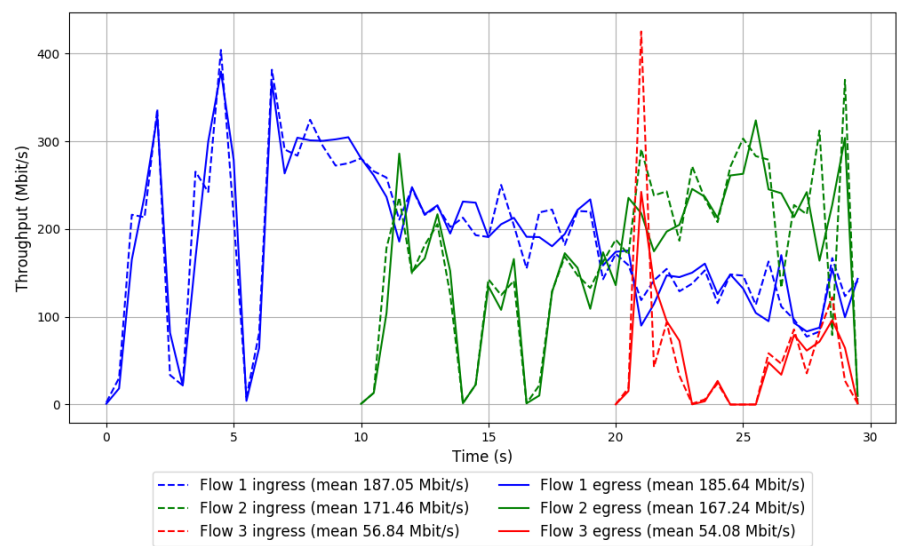
-- Flow 3:

Average throughput: 54.08 Mbit/s

95th percentile per-packet one-way delay: 209.415 ms

Loss rate: 4.83%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2017-12-12 14:59:07

End at: 2017-12-12 14:59:37

Below is generated by plot.py at 2017-12-12 17:49:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 301.43 Mbit/s

95th percentile per-packet one-way delay: 144.336 ms

Loss rate: 0.41%

-- Flow 1:

Average throughput: 174.94 Mbit/s

95th percentile per-packet one-way delay: 137.273 ms

Loss rate: 0.14%

-- Flow 2:

Average throughput: 149.56 Mbit/s

95th percentile per-packet one-way delay: 144.413 ms

Loss rate: 0.72%

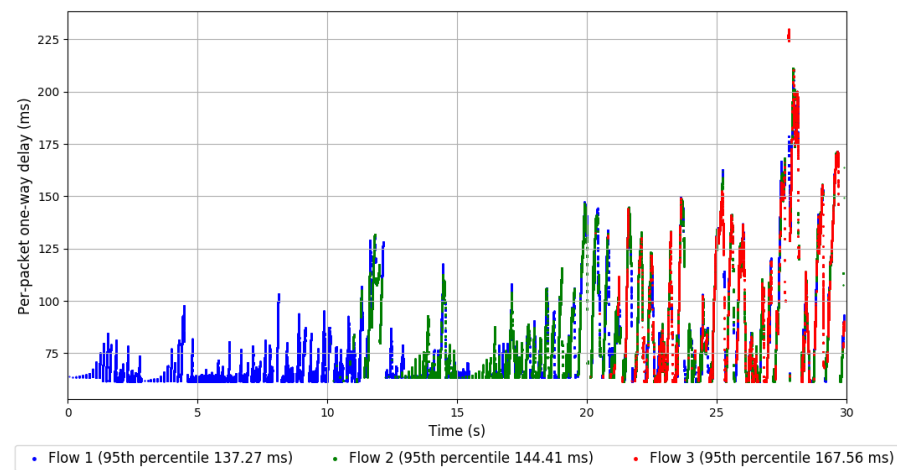
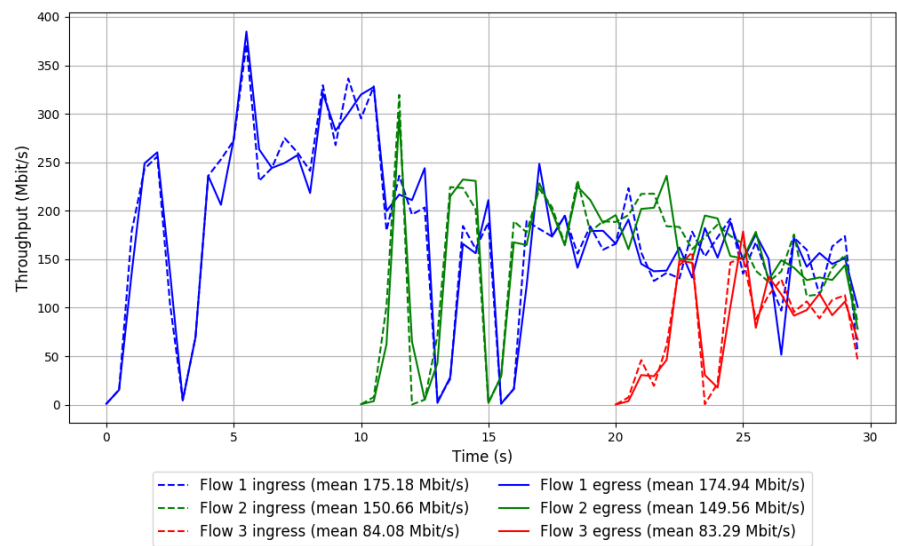
-- Flow 3:

Average throughput: 83.29 Mbit/s

95th percentile per-packet one-way delay: 167.562 ms

Loss rate: 1.04%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2017-12-12 15:11:26

End at: 2017-12-12 15:11:56

Below is generated by plot.py at 2017-12-12 17:50:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 348.78 Mbit/s

95th percentile per-packet one-way delay: 163.079 ms

Loss rate: 6.05%

-- Flow 1:

Average throughput: 242.44 Mbit/s

95th percentile per-packet one-way delay: 148.141 ms

Loss rate: 0.86%

-- Flow 2:

Average throughput: 116.36 Mbit/s

95th percentile per-packet one-way delay: 349.556 ms

Loss rate: 19.55%

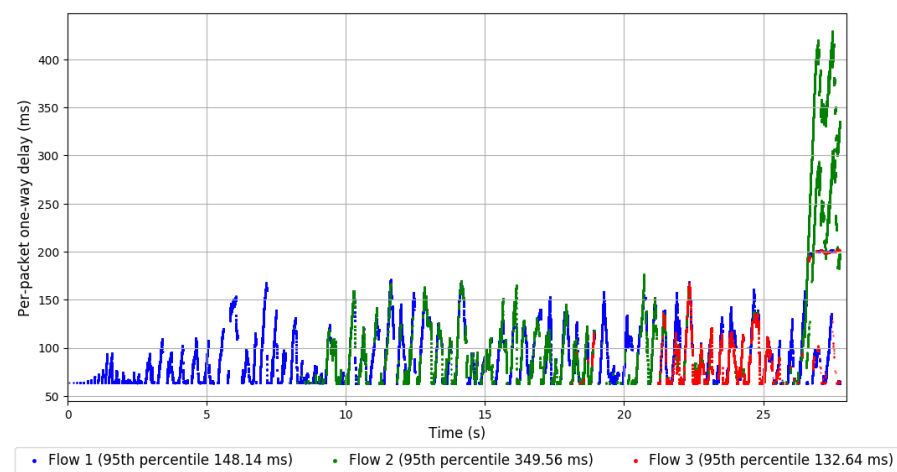
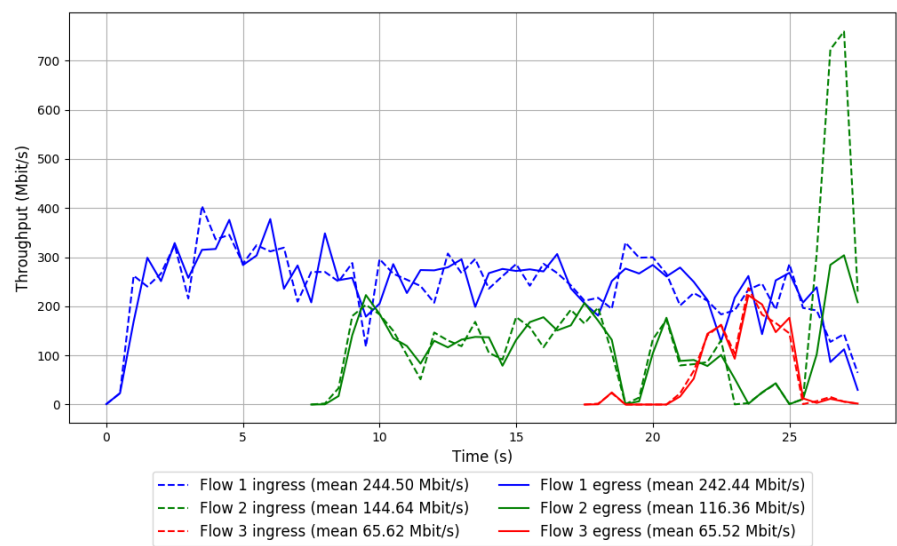
-- Flow 3:

Average throughput: 65.52 Mbit/s

95th percentile per-packet one-way delay: 132.639 ms

Loss rate: 0.53%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2017-12-12 15:23:34

End at: 2017-12-12 15:24:04

Below is generated by plot.py at 2017-12-12 17:50:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 274.67 Mbit/s

95th percentile per-packet one-way delay: 107.178 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 159.77 Mbit/s

95th percentile per-packet one-way delay: 95.983 ms

Loss rate: 0.12%

-- Flow 2:

Average throughput: 135.50 Mbit/s

95th percentile per-packet one-way delay: 119.736 ms

Loss rate: 0.09%

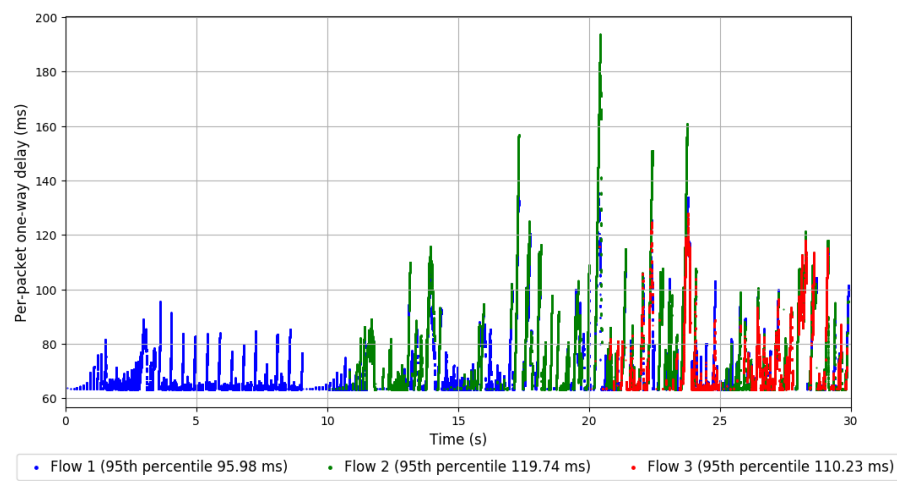
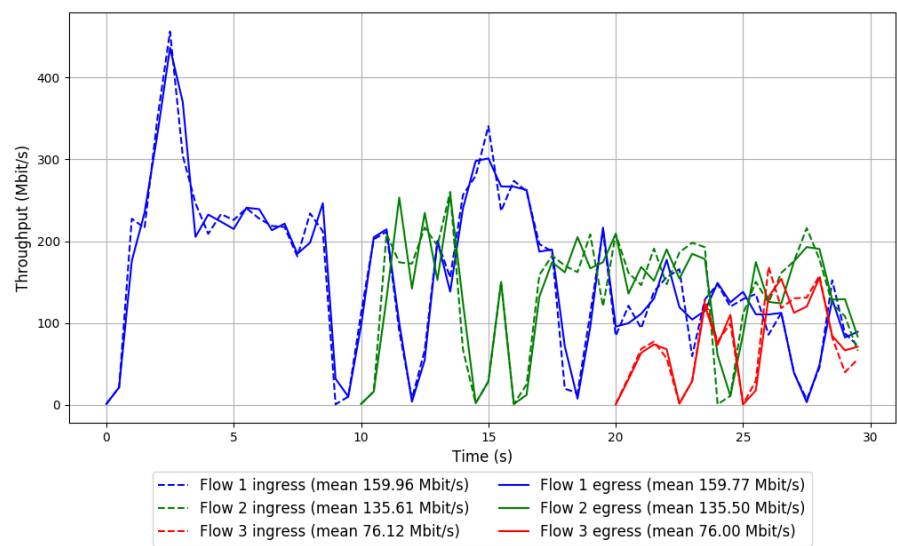
-- Flow 3:

Average throughput: 76.00 Mbit/s

95th percentile per-packet one-way delay: 110.228 ms

Loss rate: 0.00%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2017-12-12 15:35:38

End at: 2017-12-12 15:36:08

Below is generated by plot.py at 2017-12-12 17:50:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 285.28 Mbit/s

95th percentile per-packet one-way delay: 120.025 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 184.01 Mbit/s

95th percentile per-packet one-way delay: 118.890 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 113.48 Mbit/s

95th percentile per-packet one-way delay: 118.816 ms

Loss rate: 0.02%

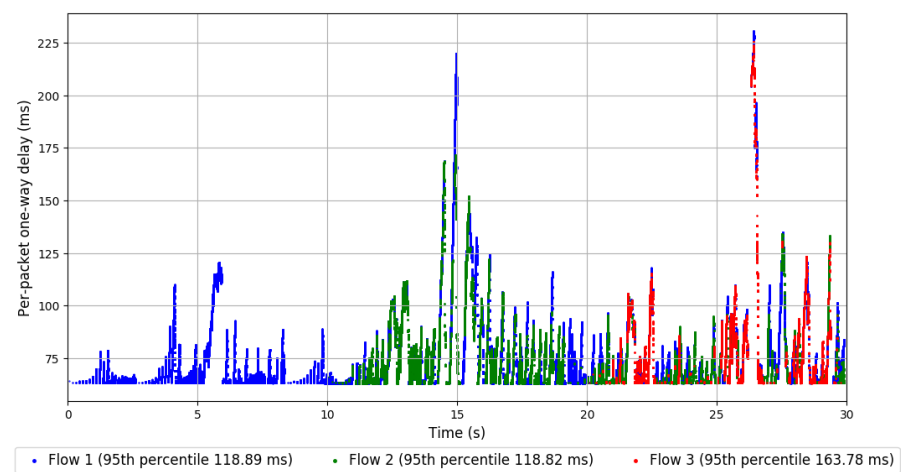
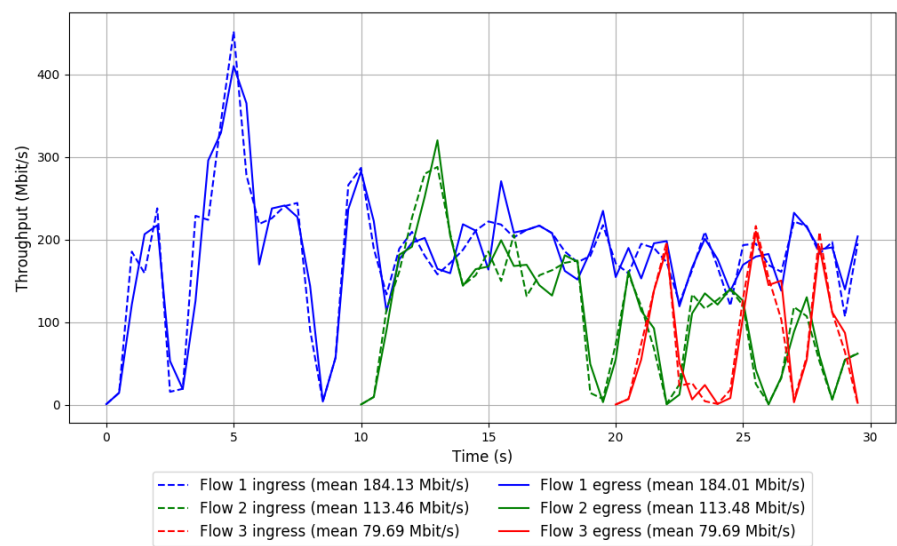
-- Flow 3:

Average throughput: 79.69 Mbit/s

95th percentile per-packet one-way delay: 163.781 ms

Loss rate: 0.00%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2017-12-12 13:43:52

End at: 2017-12-12 13:44:22

Below is generated by plot.py at 2017-12-12 17:50:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 129.18 Mbit/s

95th percentile per-packet one-way delay: 63.745 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 79.86 Mbit/s

95th percentile per-packet one-way delay: 63.666 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 76.88 Mbit/s

95th percentile per-packet one-way delay: 63.811 ms

Loss rate: 0.00%

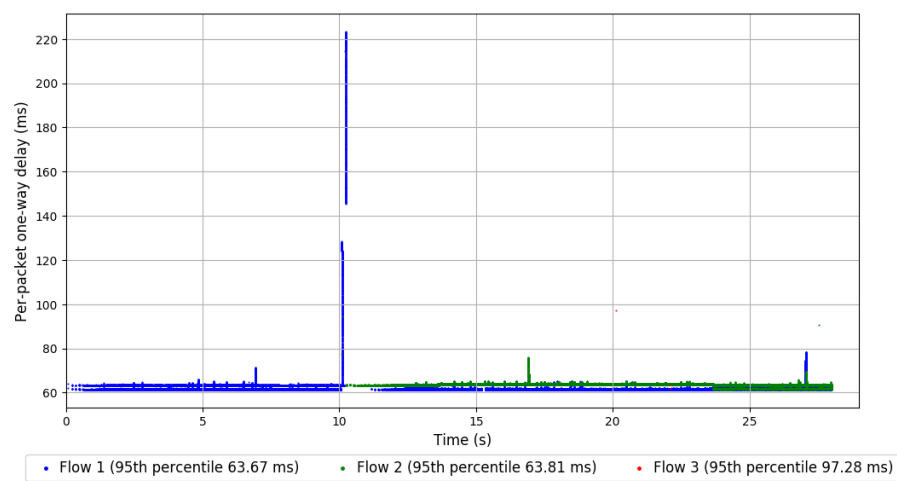
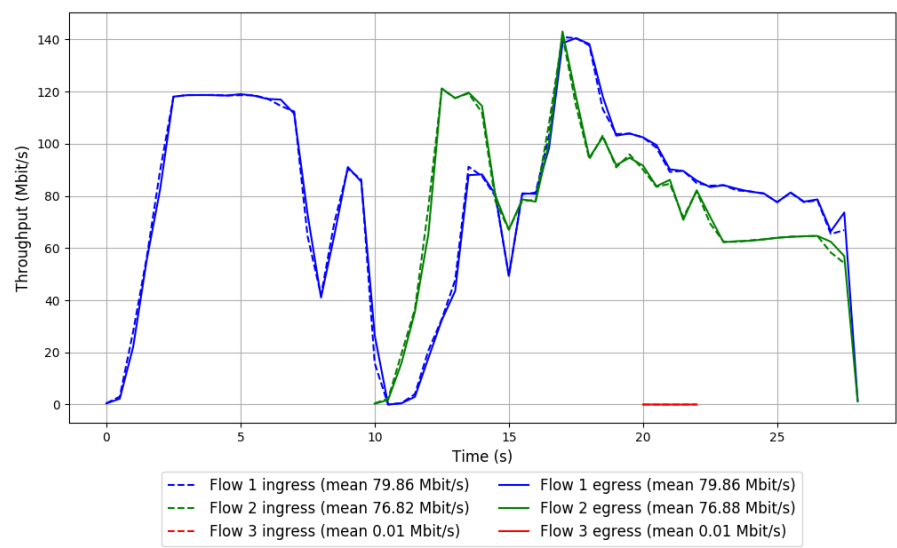
-- Flow 3:

Average throughput: 0.01 Mbit/s

95th percentile per-packet one-way delay: 97.277 ms

Loss rate: 46.17%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

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

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

Below is generated by plot.py at 2017-12-12 17:50:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 134.82 Mbit/s

95th percentile per-packet one-way delay: 63.712 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 73.24 Mbit/s

95th percentile per-packet one-way delay: 63.704 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 69.13 Mbit/s

95th percentile per-packet one-way delay: 63.702 ms

Loss rate: 0.00%

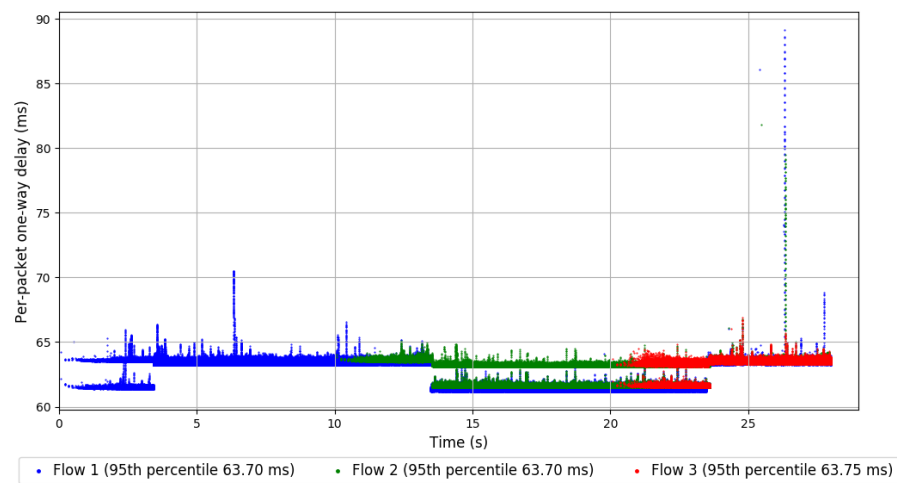
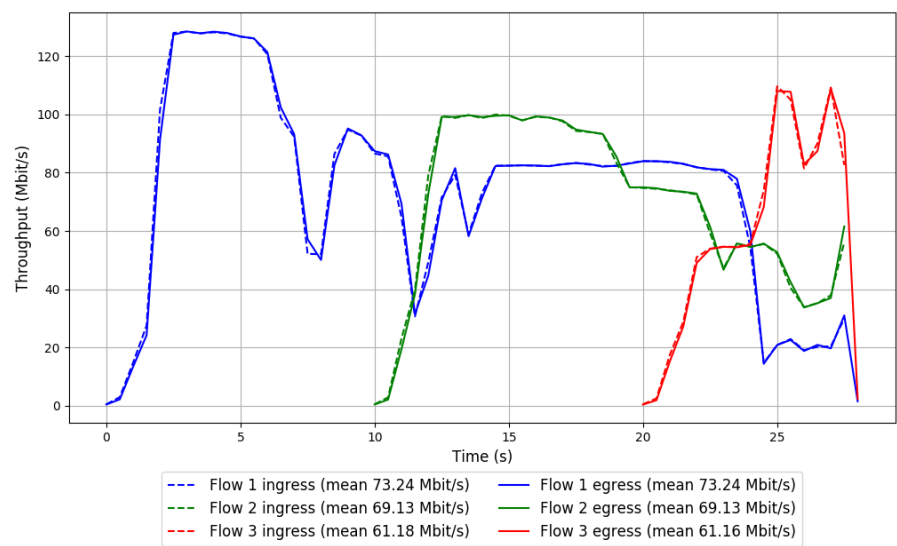
-- Flow 3:

Average throughput: 61.16 Mbit/s

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

Loss rate: 0.03%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2017-12-12 14:08:37

End at: 2017-12-12 14:09:07

Below is generated by plot.py at 2017-12-12 17:50:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 129.62 Mbit/s

95th percentile per-packet one-way delay: 63.666 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 73.52 Mbit/s

95th percentile per-packet one-way delay: 63.683 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 57.63 Mbit/s

95th percentile per-packet one-way delay: 63.659 ms

Loss rate: 0.00%

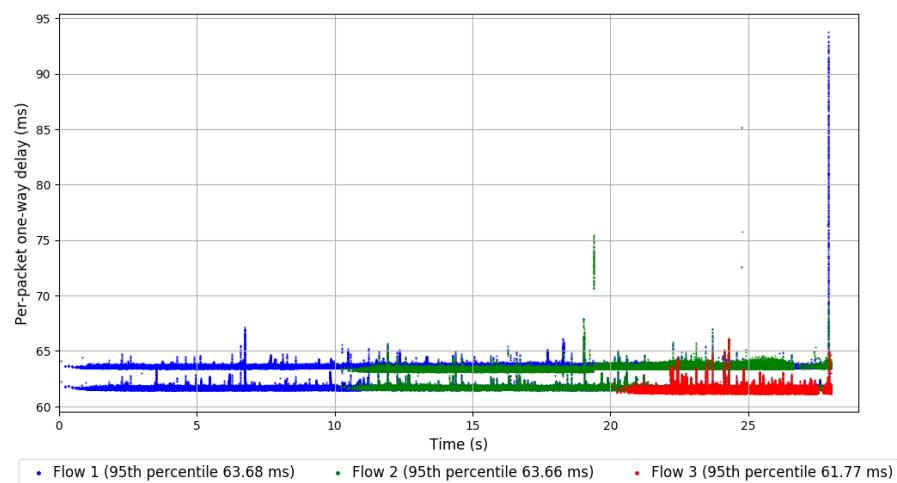
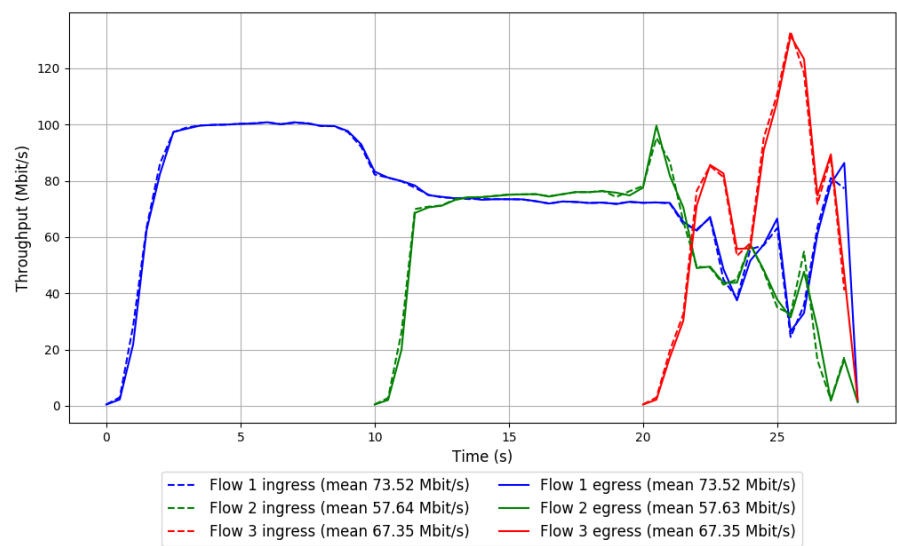
-- Flow 3:

Average throughput: 67.35 Mbit/s

95th percentile per-packet one-way delay: 61.768 ms

Loss rate: 0.00%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2017-12-12 14:21:00

End at: 2017-12-12 14:21:30

Below is generated by plot.py at 2017-12-12 17:51:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 120.28 Mbit/s

95th percentile per-packet one-way delay: 63.656 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 62.55 Mbit/s

95th percentile per-packet one-way delay: 63.611 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 64.92 Mbit/s

95th percentile per-packet one-way delay: 63.747 ms

Loss rate: 0.01%

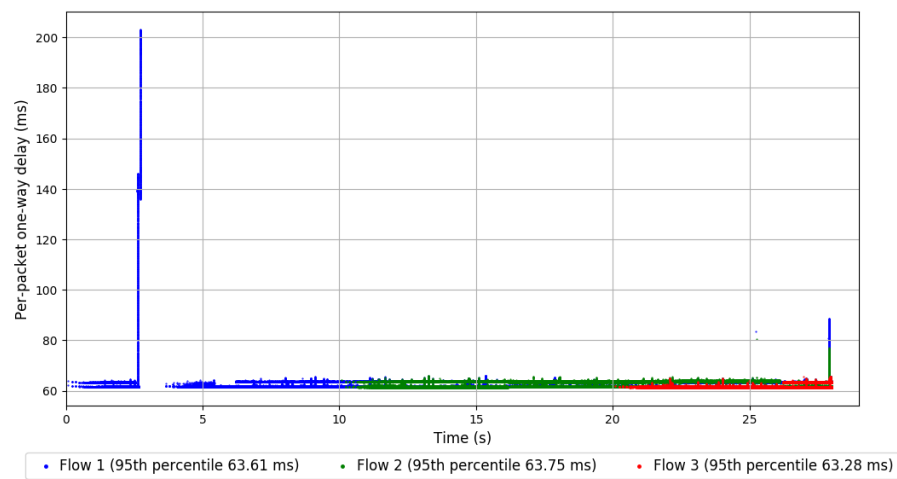
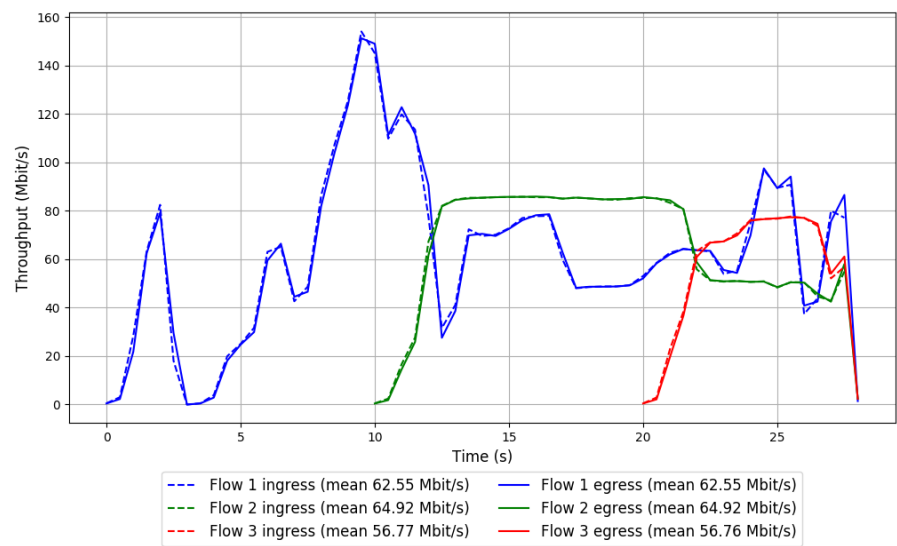
-- Flow 3:

Average throughput: 56.76 Mbit/s

95th percentile per-packet one-way delay: 63.285 ms

Loss rate: 0.02%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2017-12-12 14:33:24

End at: 2017-12-12 14:33:54

Below is generated by plot.py at 2017-12-12 17:53:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 135.64 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 71.85 Mbit/s

95th percentile per-packet one-way delay: 63.612 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 77.16 Mbit/s

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

Loss rate: 0.00%

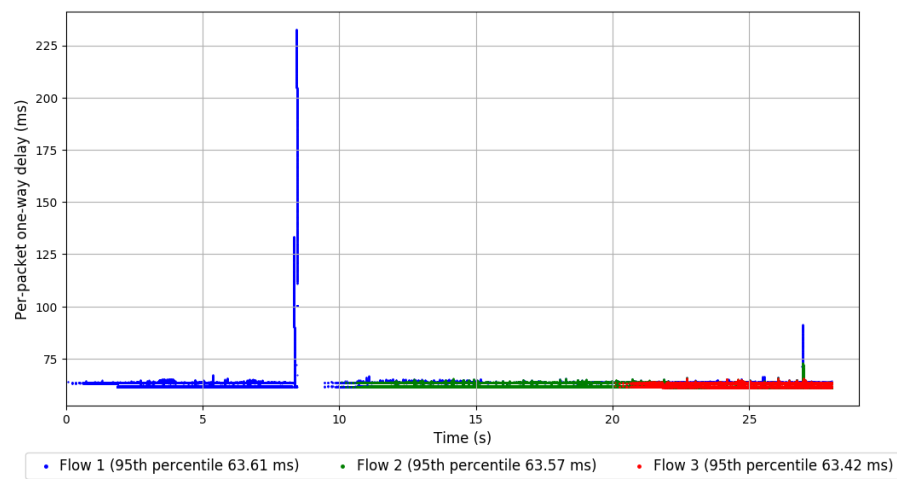
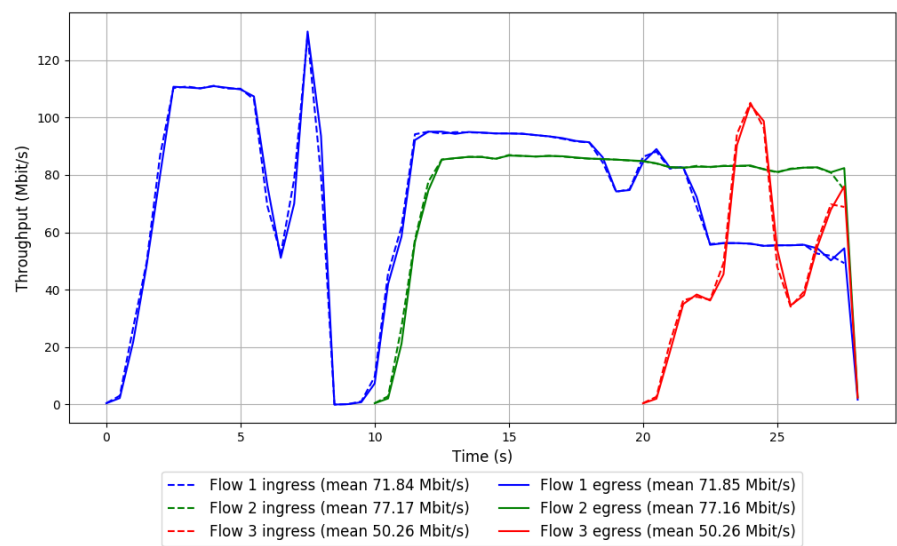
-- Flow 3:

Average throughput: 50.26 Mbit/s

95th percentile per-packet one-way delay: 63.416 ms

Loss rate: 0.00%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2017-12-12 14:45:51

End at: 2017-12-12 14:46:21

Below is generated by plot.py at 2017-12-12 17:53:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 126.08 Mbit/s

95th percentile per-packet one-way delay: 63.996 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 69.04 Mbit/s

95th percentile per-packet one-way delay: 63.747 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 54.55 Mbit/s

95th percentile per-packet one-way delay: 63.662 ms

Loss rate: 0.01%

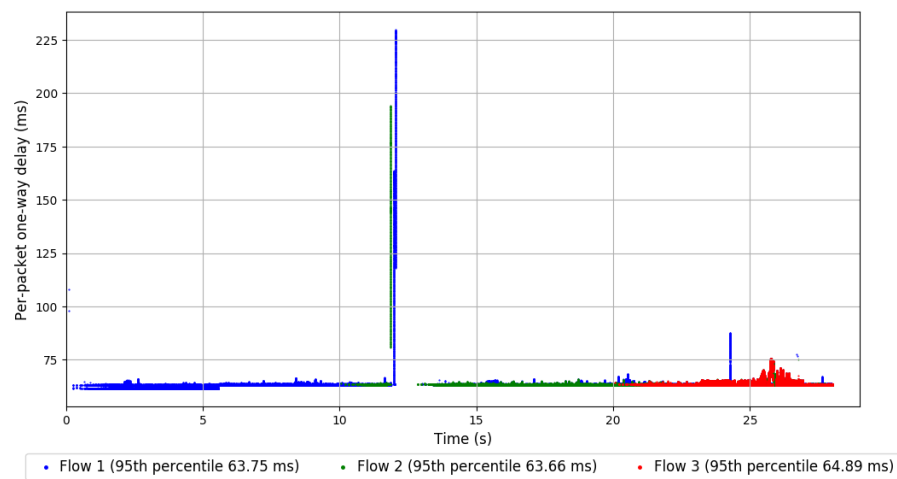
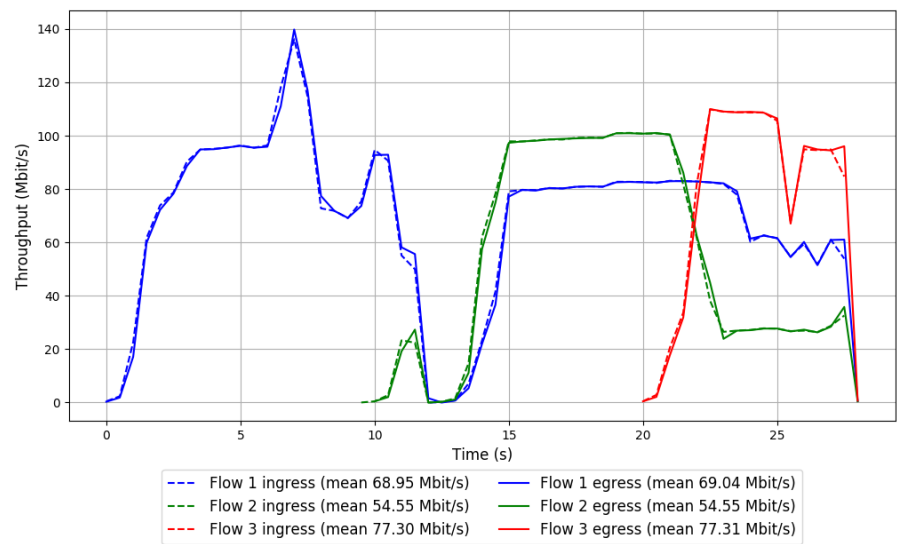
-- Flow 3:

Average throughput: 77.31 Mbit/s

95th percentile per-packet one-way delay: 64.886 ms

Loss rate: 0.01%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2017-12-12 14:58:13

End at: 2017-12-12 14:58:43

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 128.28 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 71.21 Mbit/s

95th percentile per-packet one-way delay: 63.614 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 62.55 Mbit/s

95th percentile per-packet one-way delay: 63.681 ms

Loss rate: 0.00%

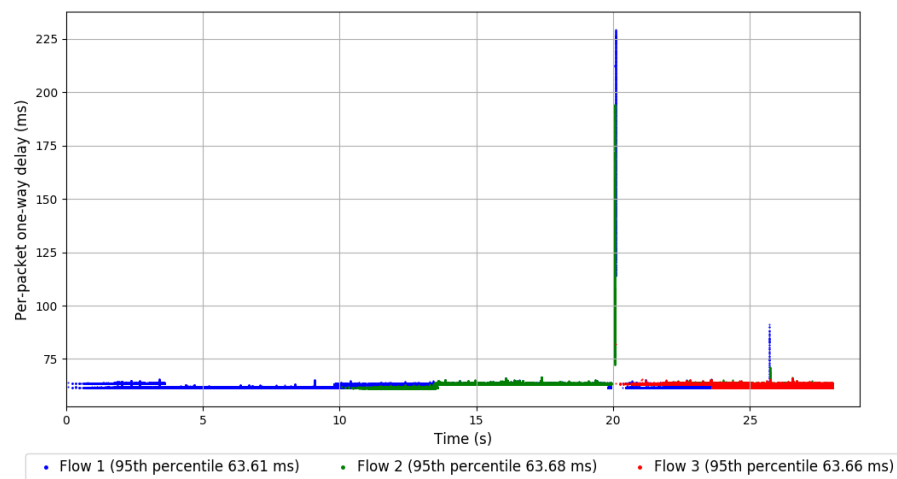
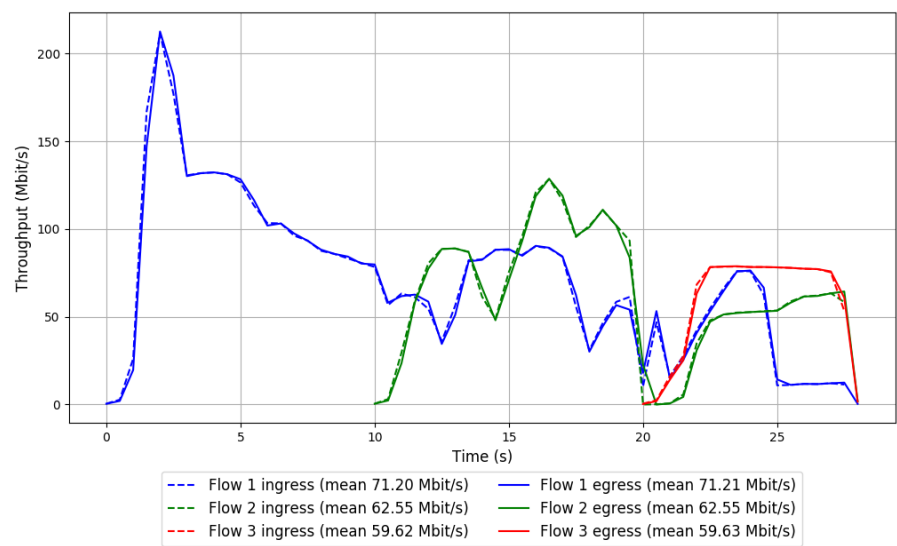
-- Flow 3:

Average throughput: 59.63 Mbit/s

95th percentile per-packet one-way delay: 63.655 ms

Loss rate: 0.00%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2017-12-12 15:10:32

End at: 2017-12-12 15:11:02

Below is generated by plot.py at 2017-12-12 17:54:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 128.38 Mbit/s

95th percentile per-packet one-way delay: 63.628 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 61.03 Mbit/s

95th percentile per-packet one-way delay: 63.623 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 71.59 Mbit/s

95th percentile per-packet one-way delay: 63.632 ms

Loss rate: 0.00%

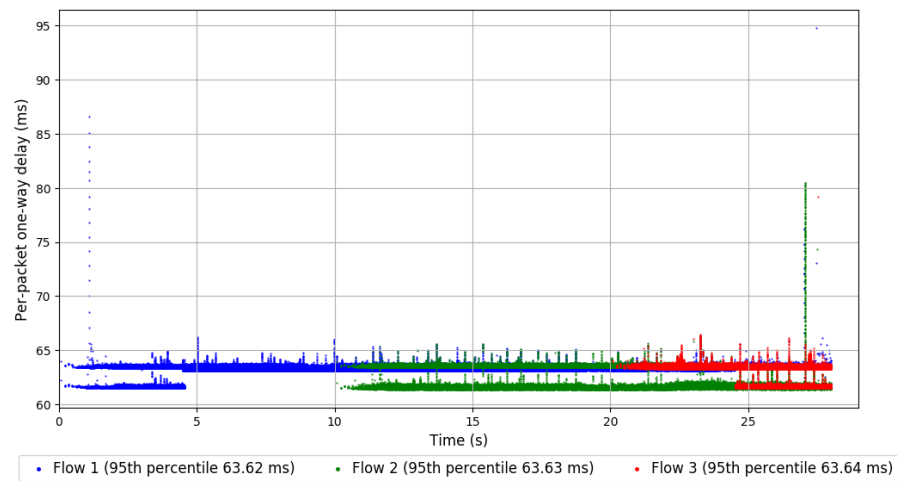
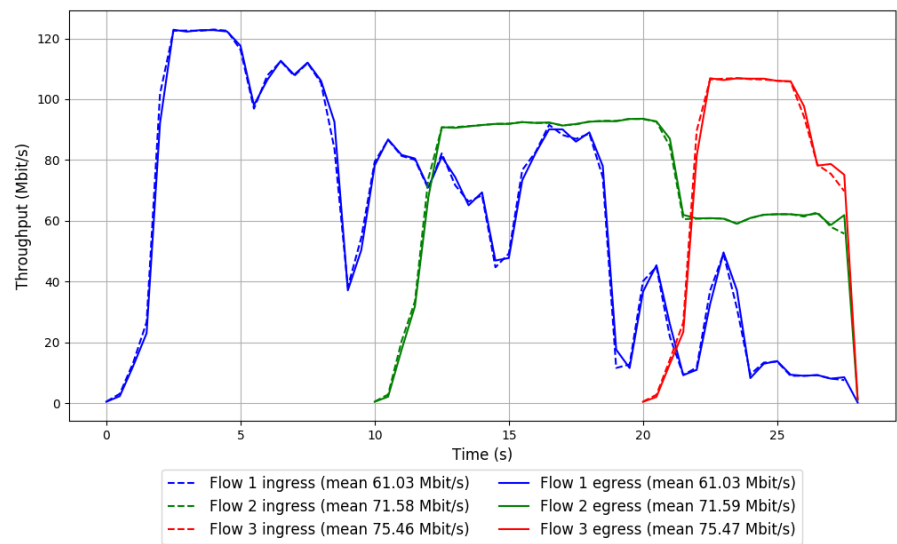
-- Flow 3:

Average throughput: 75.47 Mbit/s

95th percentile per-packet one-way delay: 63.636 ms

Loss rate: 0.00%

Run 8: Report of Copa — Data Link

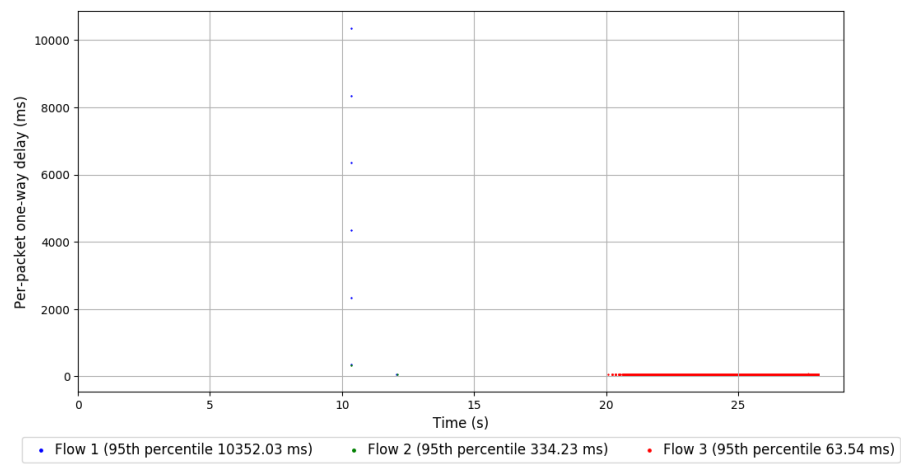
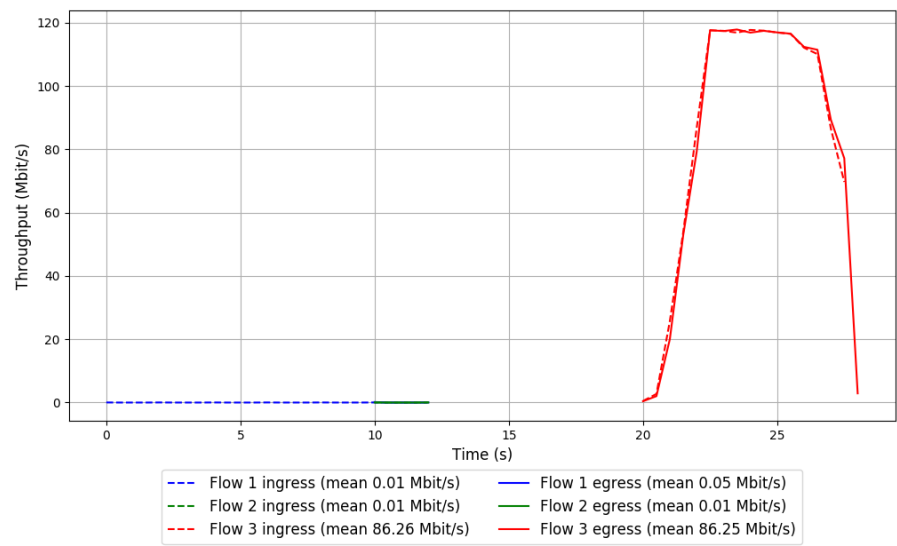


Run 9: Statistics of Copa

Start at: 2017-12-12 15:22:51

End at: 2017-12-12 15:23:21

Run 9: Report of Copa — Data Link

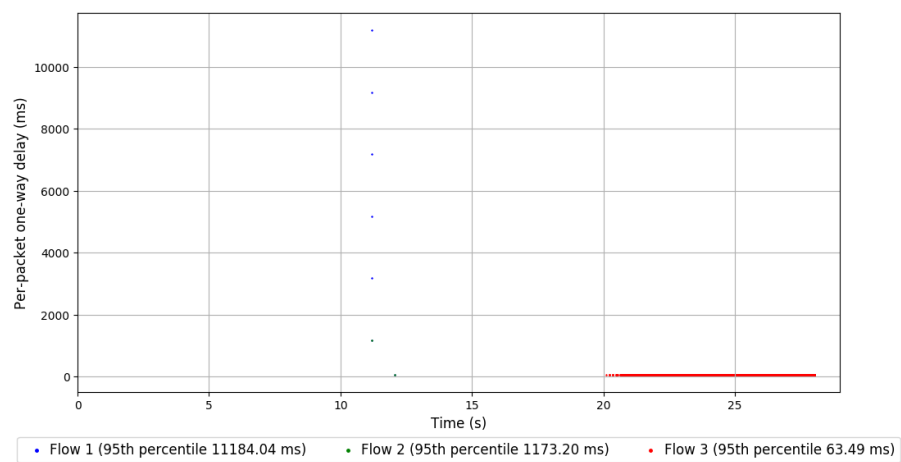
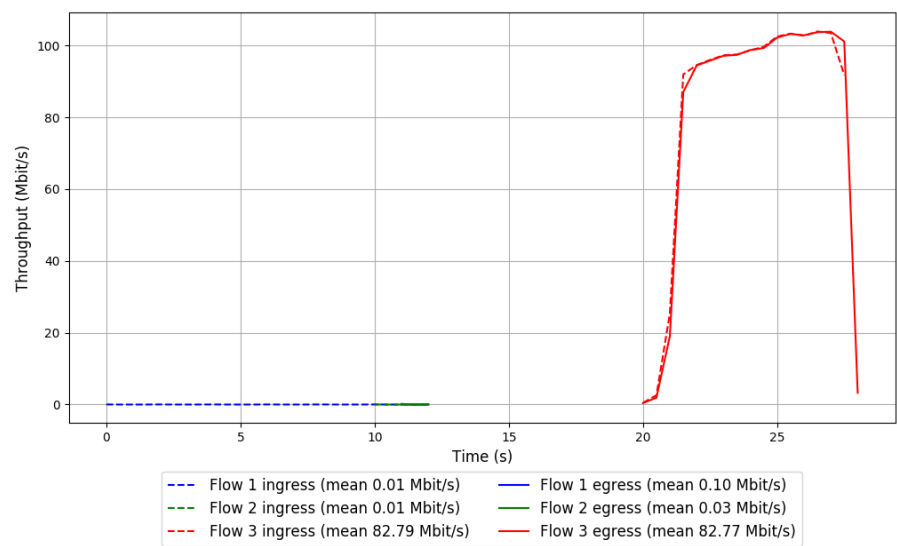


Run 10: Statistics of Copa

Start at: 2017-12-12 15:34:55

End at: 2017-12-12 15:35:25

Run 10: Report of Copa — Data Link

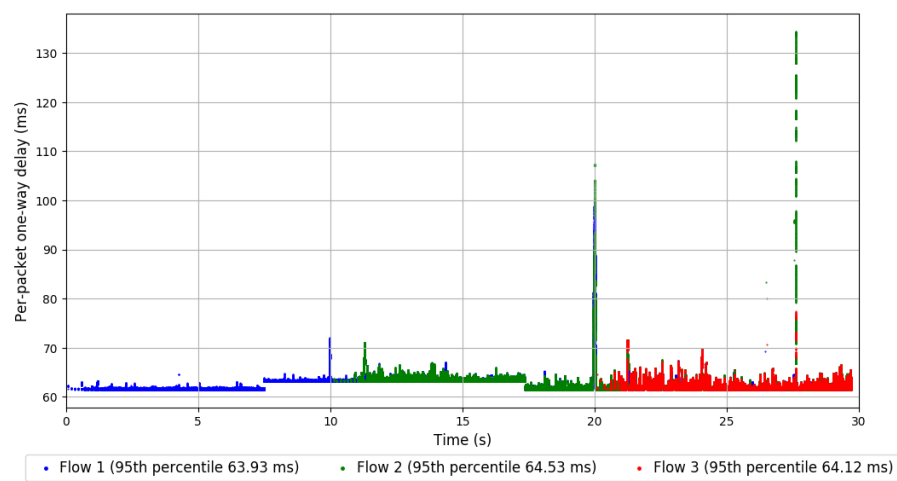
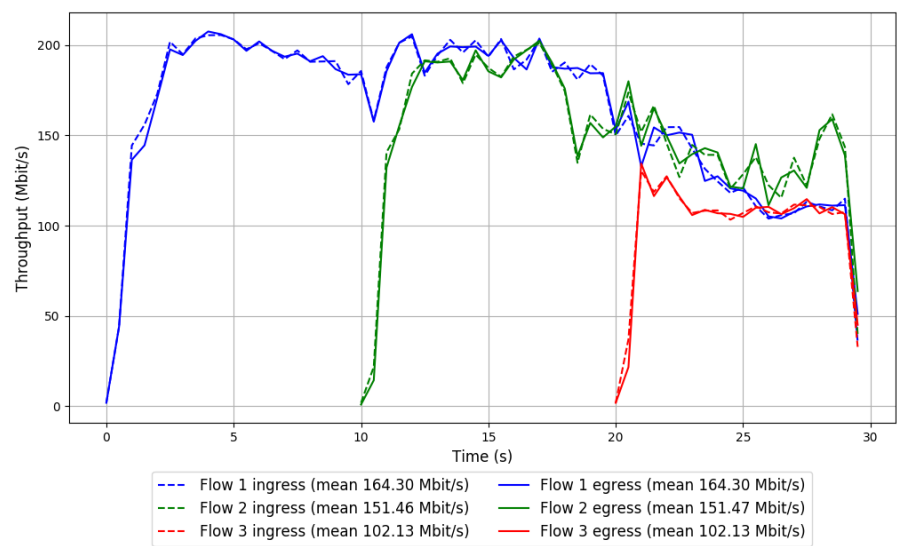


```
Run 1: Statistics of Indigo

Start at: 2017-12-12 13:51:50
End at: 2017-12-12 13:52:20

# Below is generated by plot.py at 2017-12-12 17:56:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 297.60 Mbit/s
95th percentile per-packet one-way delay: 64.170 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 164.30 Mbit/s
95th percentile per-packet one-way delay: 63.926 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 151.47 Mbit/s
95th percentile per-packet one-way delay: 64.535 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 102.13 Mbit/s
95th percentile per-packet one-way delay: 64.124 ms
Loss rate: 0.00%
```


Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

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

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

Below is generated by plot.py at 2017-12-12 17:56:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 278.69 Mbit/s

95th percentile per-packet one-way delay: 66.270 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 156.03 Mbit/s

95th percentile per-packet one-way delay: 65.274 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 143.53 Mbit/s

95th percentile per-packet one-way delay: 67.231 ms

Loss rate: 0.00%

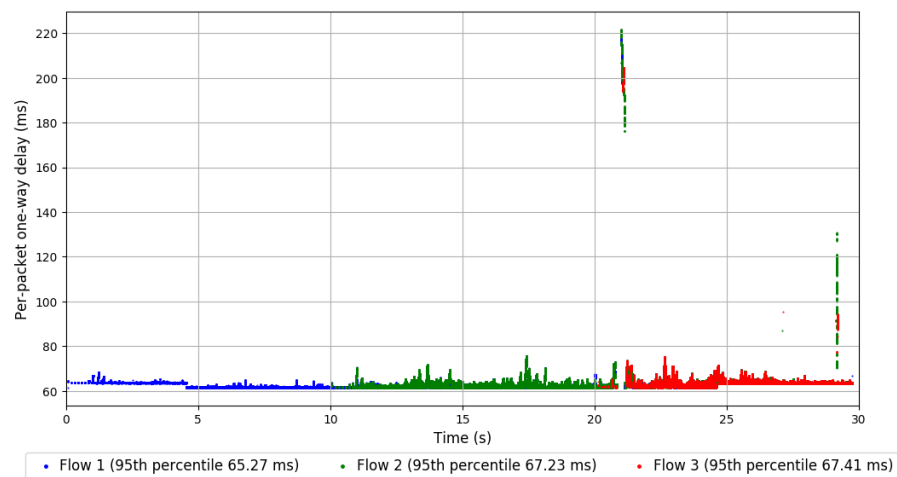
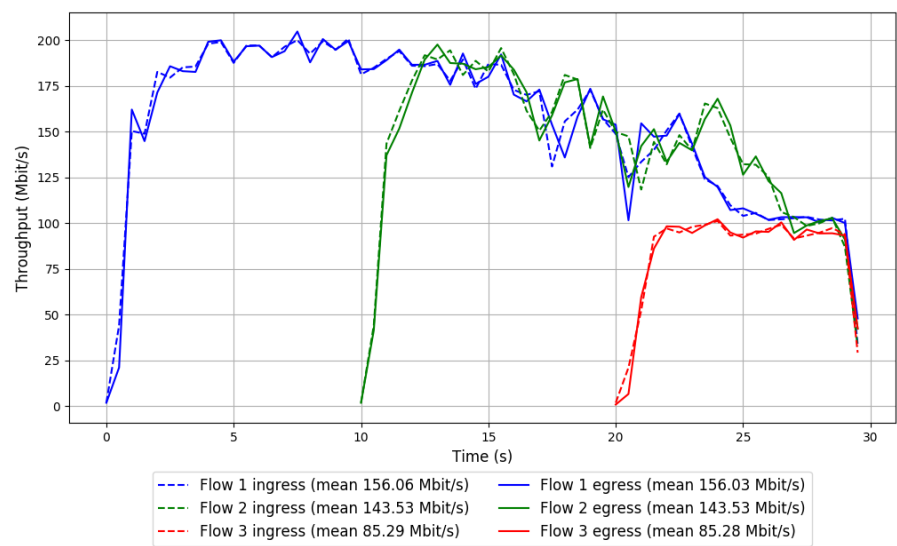
-- Flow 3:

Average throughput: 85.28 Mbit/s

95th percentile per-packet one-way delay: 67.409 ms

Loss rate: 0.01%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2017-12-12 14:16:41

End at: 2017-12-12 14:17:11

Below is generated by plot.py at 2017-12-12 17:56:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 294.25 Mbit/s

95th percentile per-packet one-way delay: 66.074 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 163.76 Mbit/s

95th percentile per-packet one-way delay: 65.262 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 151.89 Mbit/s

95th percentile per-packet one-way delay: 66.606 ms

Loss rate: 0.00%

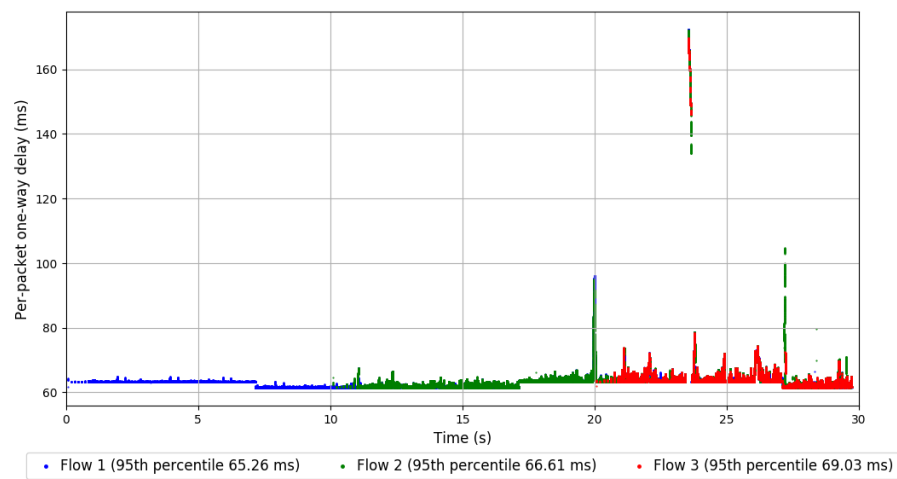
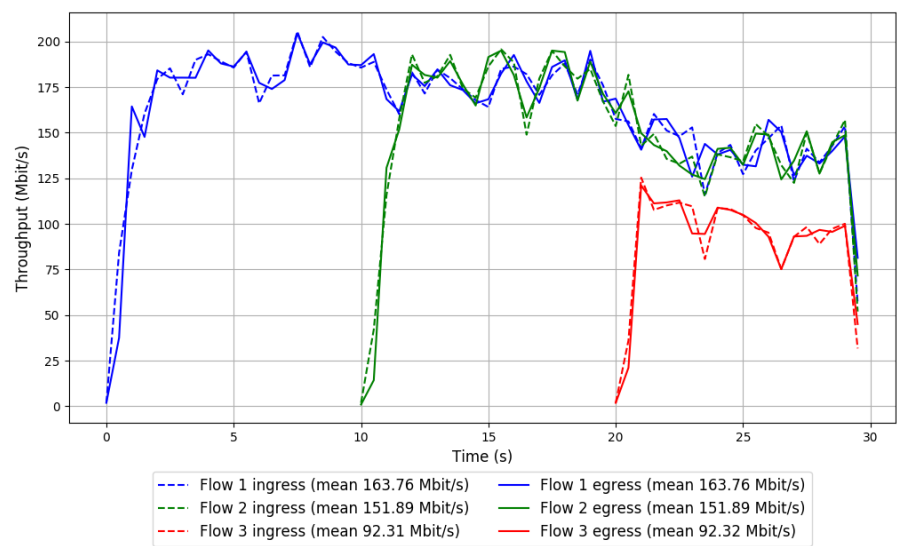
-- Flow 3:

Average throughput: 92.32 Mbit/s

95th percentile per-packet one-way delay: 69.034 ms

Loss rate: 0.00%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2017-12-12 14:29:00

End at: 2017-12-12 14:29:30

Below is generated by plot.py at 2017-12-12 17:56:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 299.74 Mbit/s

95th percentile per-packet one-way delay: 68.523 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 165.92 Mbit/s

95th percentile per-packet one-way delay: 66.941 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 154.07 Mbit/s

95th percentile per-packet one-way delay: 68.658 ms

Loss rate: 0.00%

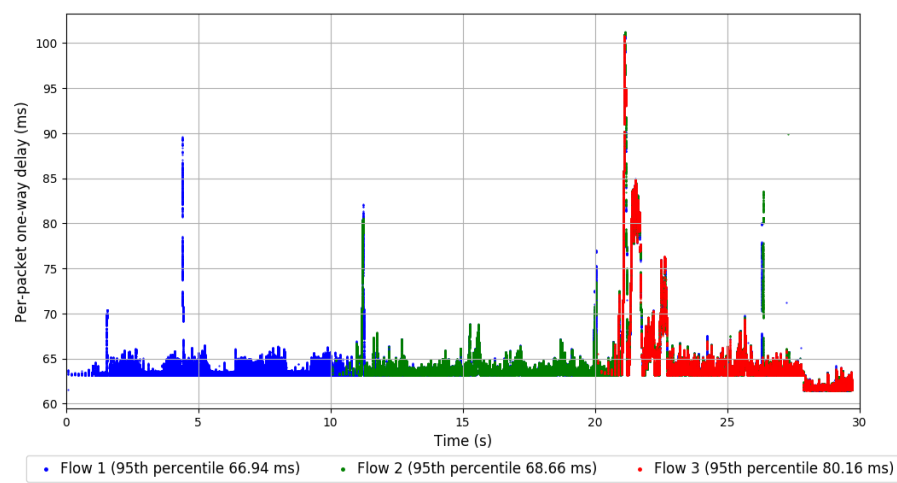
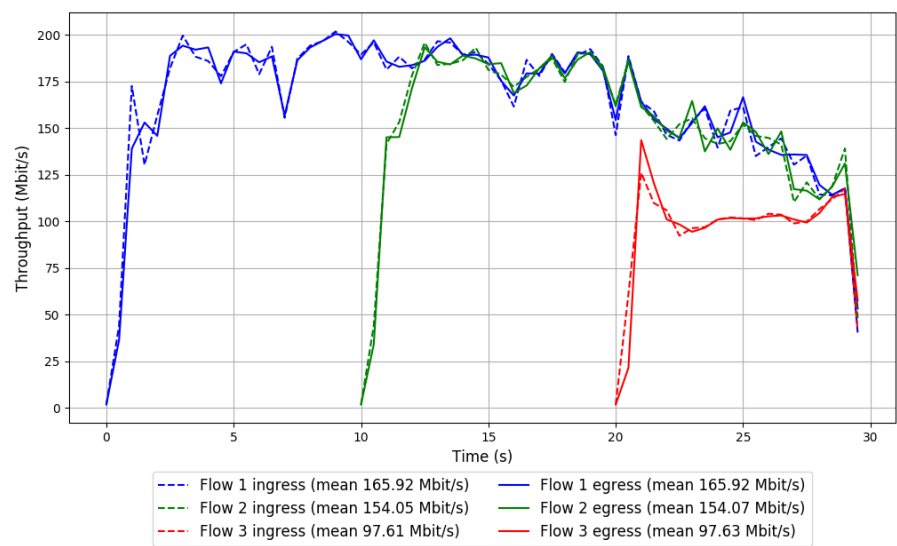
-- Flow 3:

Average throughput: 97.63 Mbit/s

95th percentile per-packet one-way delay: 80.160 ms

Loss rate: 0.00%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2017-12-12 14:41:30

End at: 2017-12-12 14:42:00

Below is generated by plot.py at 2017-12-12 17:58:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 275.75 Mbit/s

95th percentile per-packet one-way delay: 64.834 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 151.91 Mbit/s

95th percentile per-packet one-way delay: 64.497 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 134.93 Mbit/s

95th percentile per-packet one-way delay: 65.058 ms

Loss rate: 0.11%

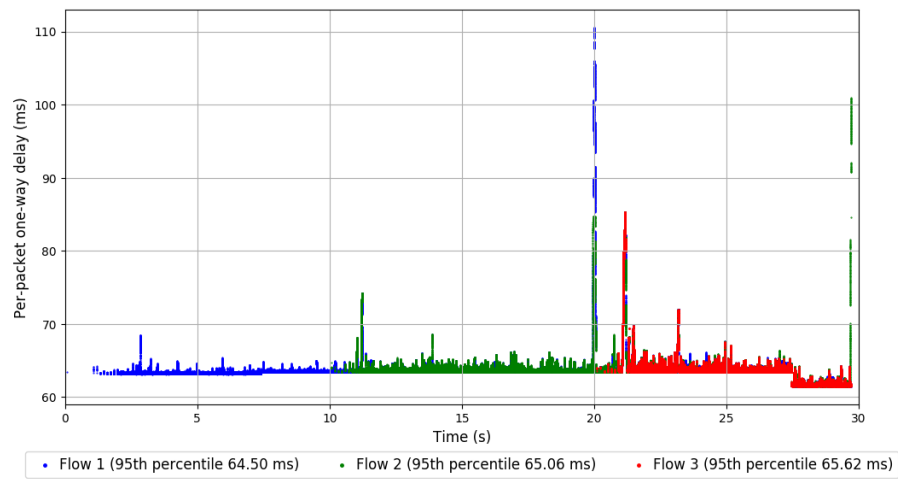
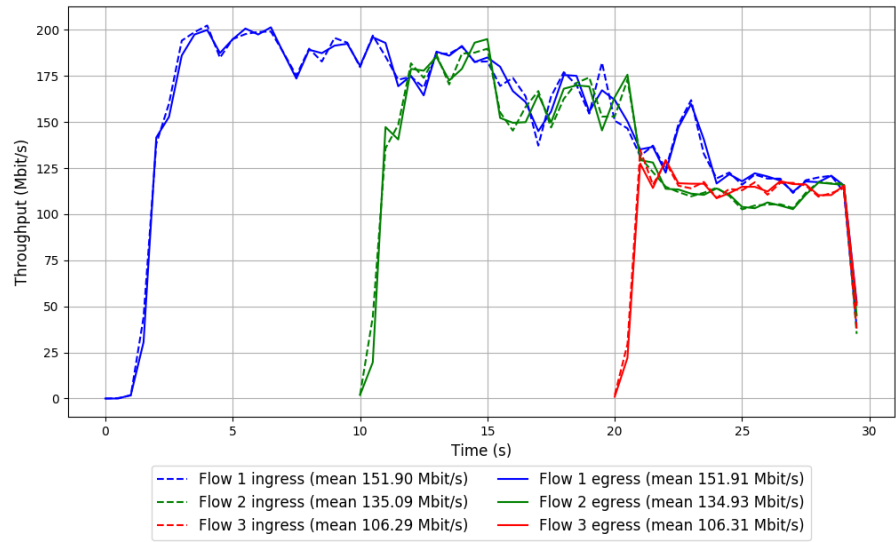
-- Flow 3:

Average throughput: 106.31 Mbit/s

95th percentile per-packet one-way delay: 65.620 ms

Loss rate: 0.00%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2017-12-12 14:53:56

End at: 2017-12-12 14:54:26

Below is generated by plot.py at 2017-12-12 17:58:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 277.43 Mbit/s

95th percentile per-packet one-way delay: 65.990 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 150.89 Mbit/s

95th percentile per-packet one-way delay: 64.977 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 132.51 Mbit/s

95th percentile per-packet one-way delay: 66.376 ms

Loss rate: 0.00%

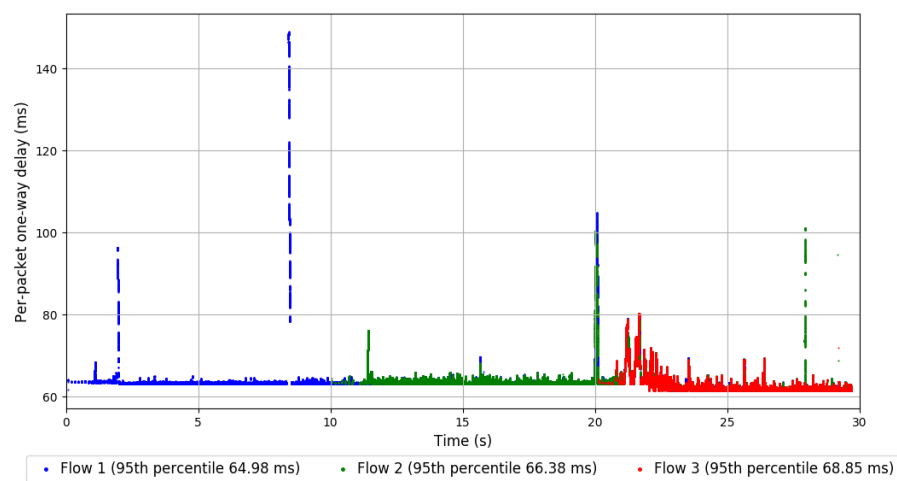
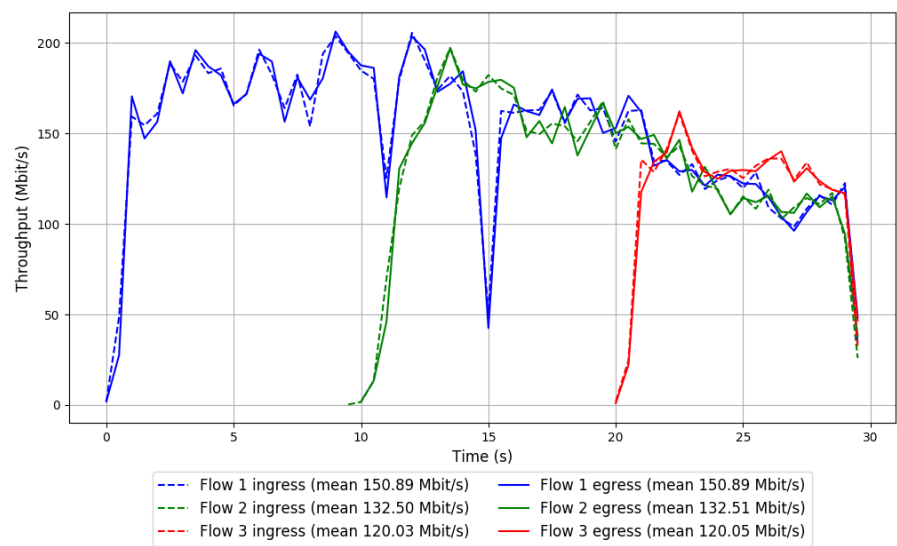
-- Flow 3:

Average throughput: 120.05 Mbit/s

95th percentile per-packet one-way delay: 68.854 ms

Loss rate: 0.00%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2017-12-12 15:06:15

End at: 2017-12-12 15:06:45

Below is generated by plot.py at 2017-12-12 17:59:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 282.94 Mbit/s

95th percentile per-packet one-way delay: 68.331 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 149.57 Mbit/s

95th percentile per-packet one-way delay: 66.240 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 155.62 Mbit/s

95th percentile per-packet one-way delay: 69.495 ms

Loss rate: 0.02%

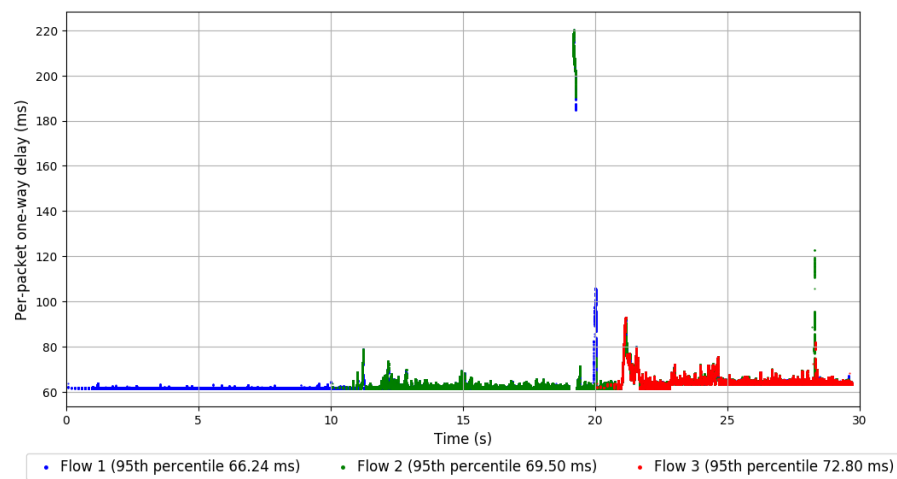
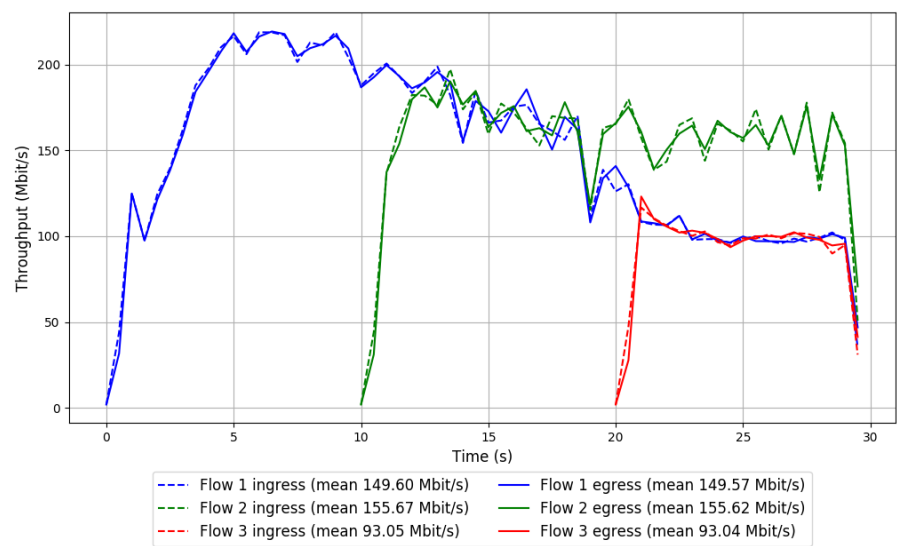
-- Flow 3:

Average throughput: 93.04 Mbit/s

95th percentile per-packet one-way delay: 72.797 ms

Loss rate: 0.00%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2017-12-12 15:18:30

End at: 2017-12-12 15:19:00

Below is generated by plot.py at 2017-12-12 17:59:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 279.77 Mbit/s

95th percentile per-packet one-way delay: 64.988 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 157.59 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 137.36 Mbit/s

95th percentile per-packet one-way delay: 64.982 ms

Loss rate: 0.01%

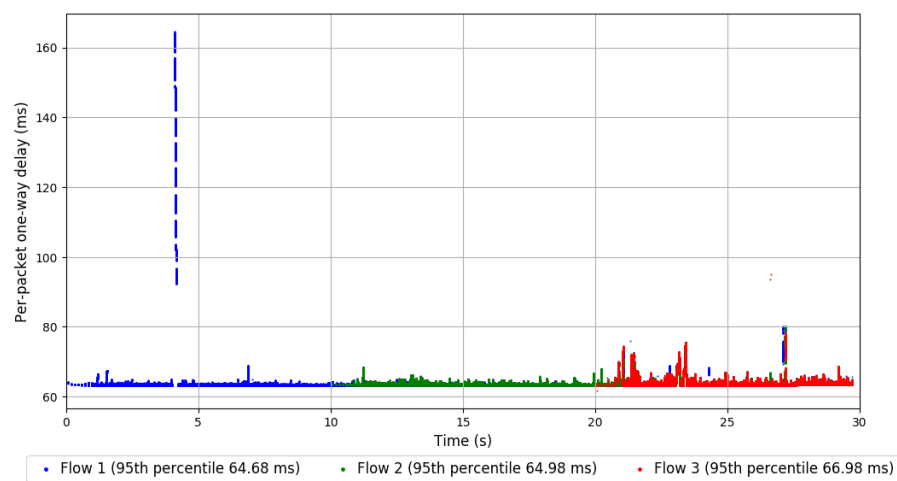
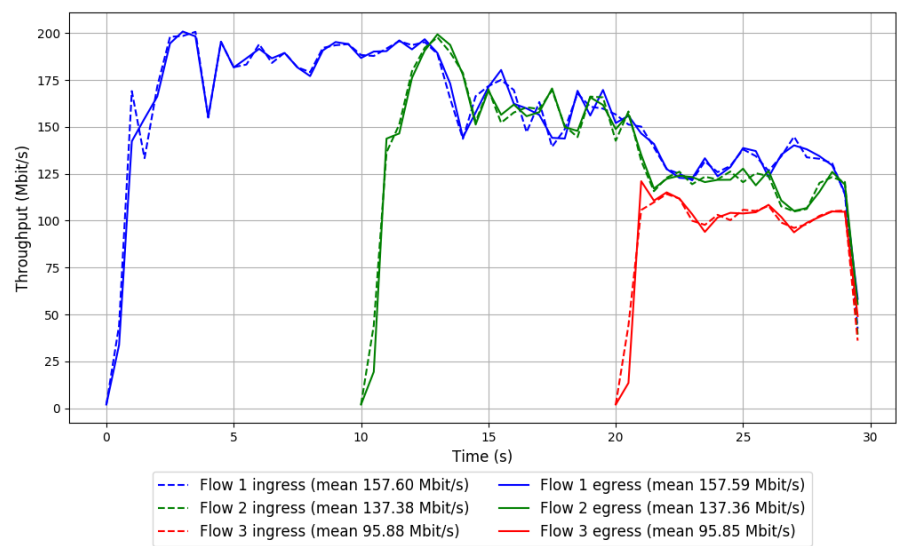
-- Flow 3:

Average throughput: 95.85 Mbit/s

95th percentile per-packet one-way delay: 66.985 ms

Loss rate: 0.02%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2017-12-12 15:30:34

End at: 2017-12-12 15:31:04

Below is generated by plot.py at 2017-12-12 18:01:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 304.43 Mbit/s

95th percentile per-packet one-way delay: 65.839 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 166.18 Mbit/s

95th percentile per-packet one-way delay: 65.162 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 155.52 Mbit/s

95th percentile per-packet one-way delay: 66.032 ms

Loss rate: 0.00%

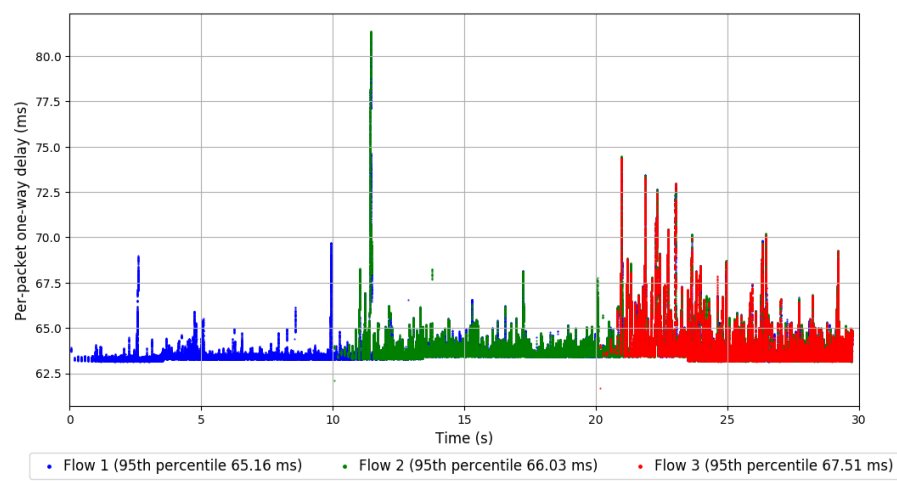
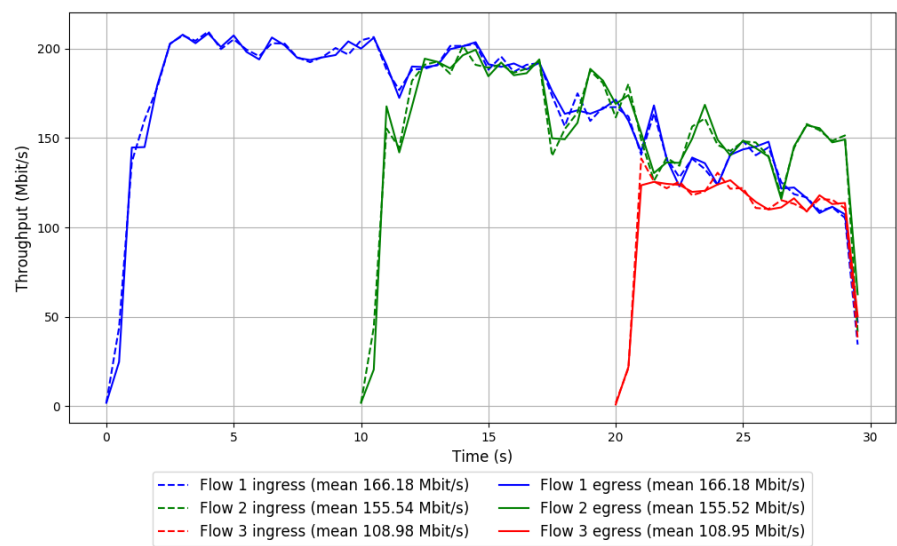
-- Flow 3:

Average throughput: 108.95 Mbit/s

95th percentile per-packet one-way delay: 67.506 ms

Loss rate: 0.00%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2017-12-12 15:42:49

End at: 2017-12-12 15:43:19

Below is generated by plot.py at 2017-12-12 18:01:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 294.97 Mbit/s

95th percentile per-packet one-way delay: 66.714 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 167.70 Mbit/s

95th percentile per-packet one-way delay: 65.922 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 143.63 Mbit/s

95th percentile per-packet one-way delay: 67.316 ms

Loss rate: 0.00%

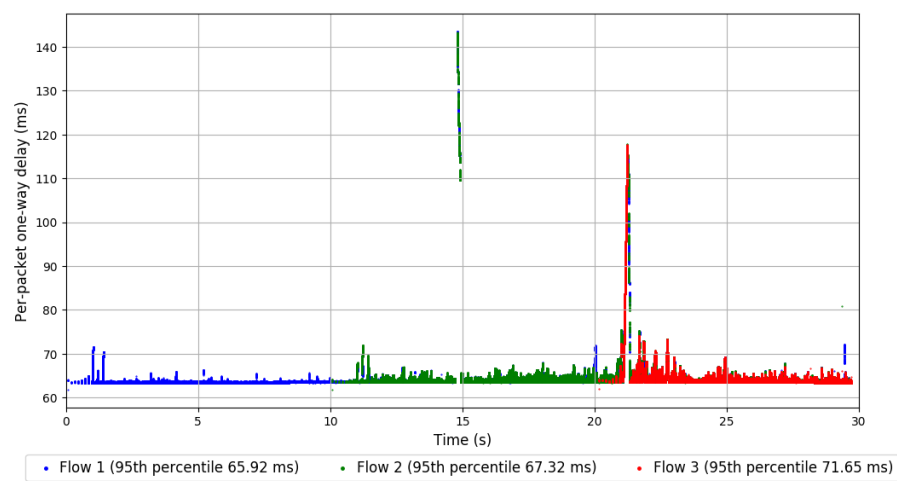
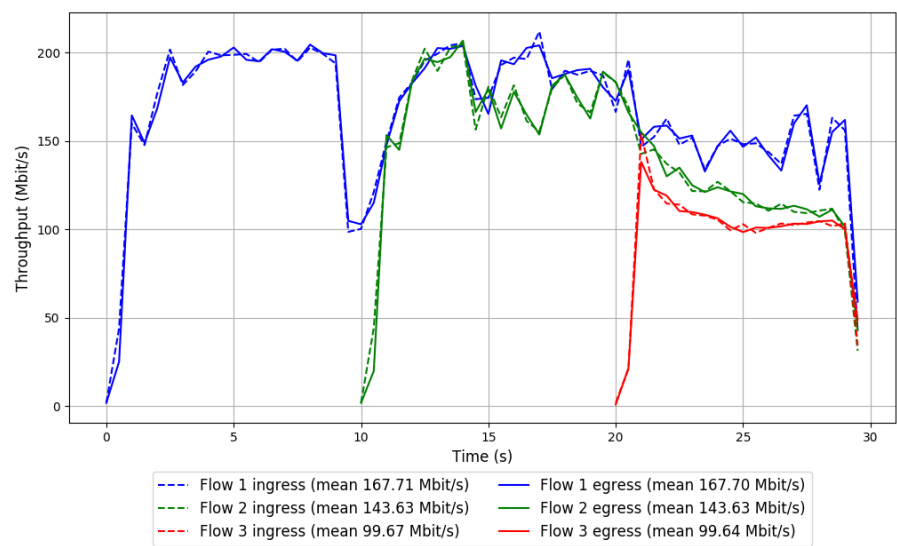
-- Flow 3:

Average throughput: 99.64 Mbit/s

95th percentile per-packet one-way delay: 71.653 ms

Loss rate: 0.01%

Run 10: Report of Indigo — Data Link

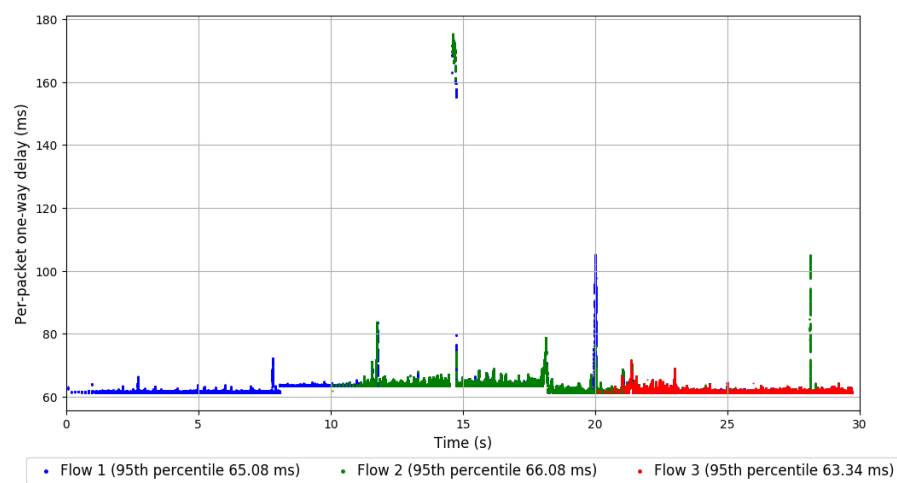
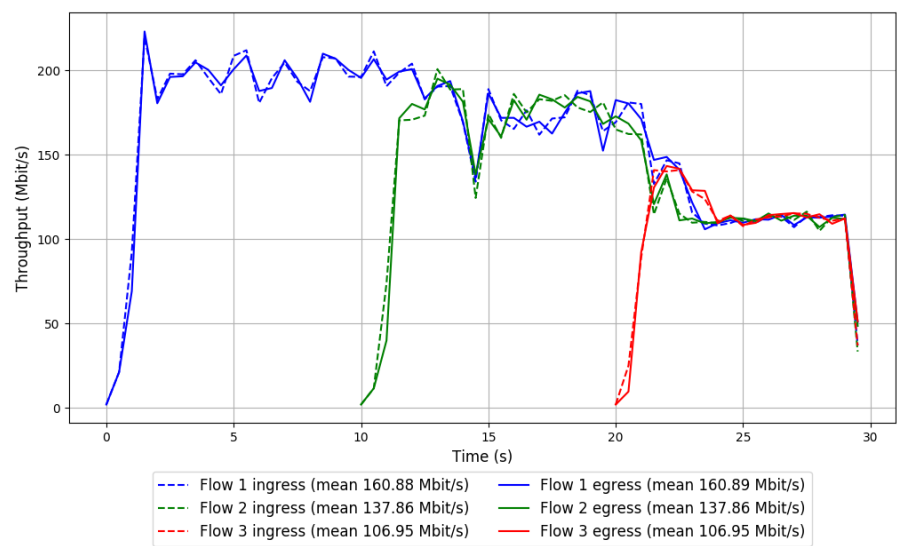


```
Run 1: Statistics of Indigo-calib

Start at: 2017-12-12 13:48:20
End at: 2017-12-12 13:48:50

# Below is generated by plot.py at 2017-12-12 18:02:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 287.01 Mbit/s
95th percentile per-packet one-way delay: 65.267 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 160.89 Mbit/s
95th percentile per-packet one-way delay: 65.081 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 137.86 Mbit/s
95th percentile per-packet one-way delay: 66.077 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 106.95 Mbit/s
95th percentile per-packet one-way delay: 63.345 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo-calib — Data Link

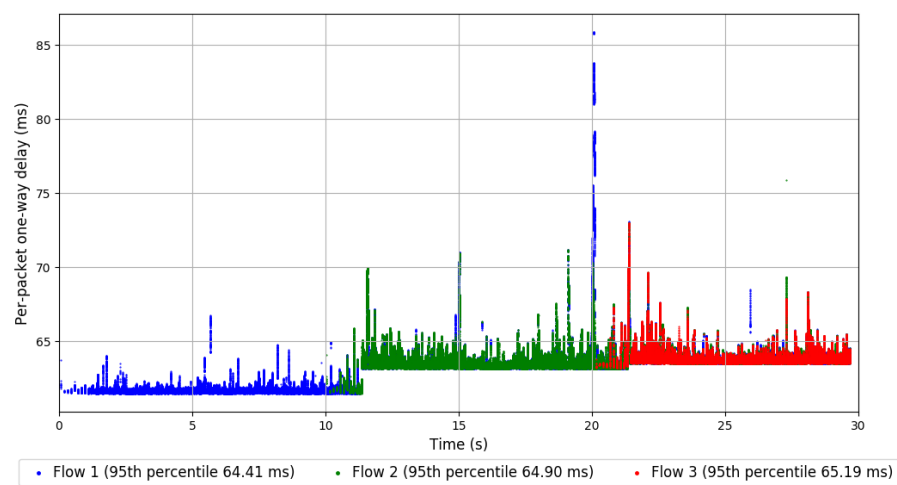
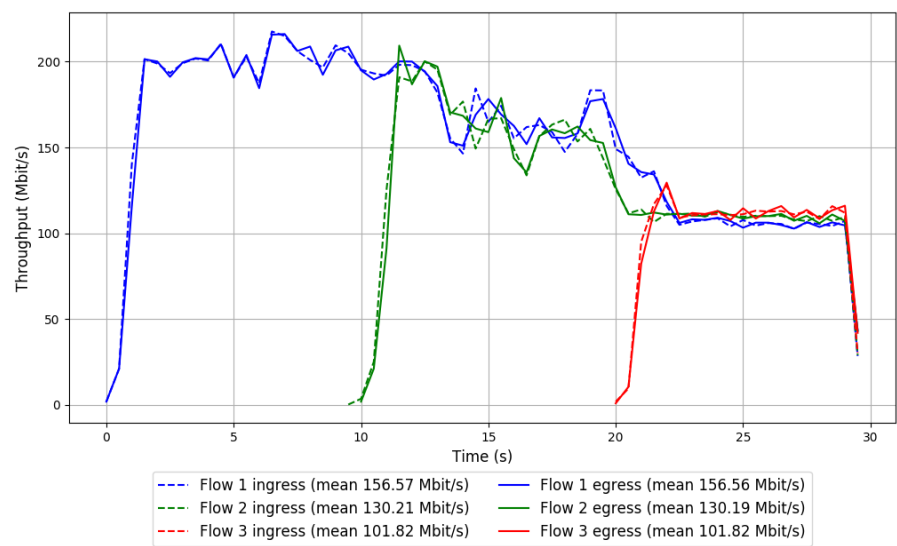


```
Run 2: Statistics of Indigo-calib

Start at: 2017-12-12 14:00:46
End at: 2017-12-12 14:01:16

# Below is generated by plot.py at 2017-12-12 18:02:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 275.75 Mbit/s
95th percentile per-packet one-way delay: 64.682 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 156.56 Mbit/s
95th percentile per-packet one-way delay: 64.412 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 130.19 Mbit/s
95th percentile per-packet one-way delay: 64.898 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 101.82 Mbit/s
95th percentile per-packet one-way delay: 65.188 ms
Loss rate: 0.00%
```

Run 2: Report of Indigo-calib — Data Link

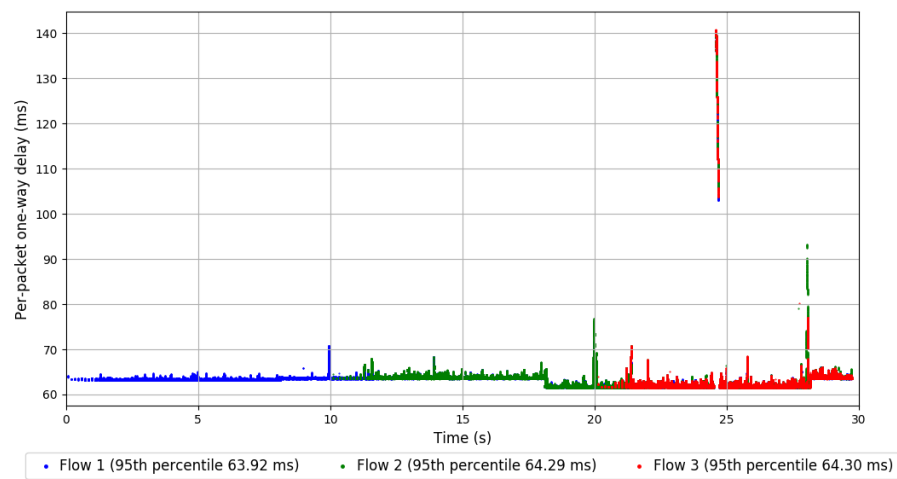
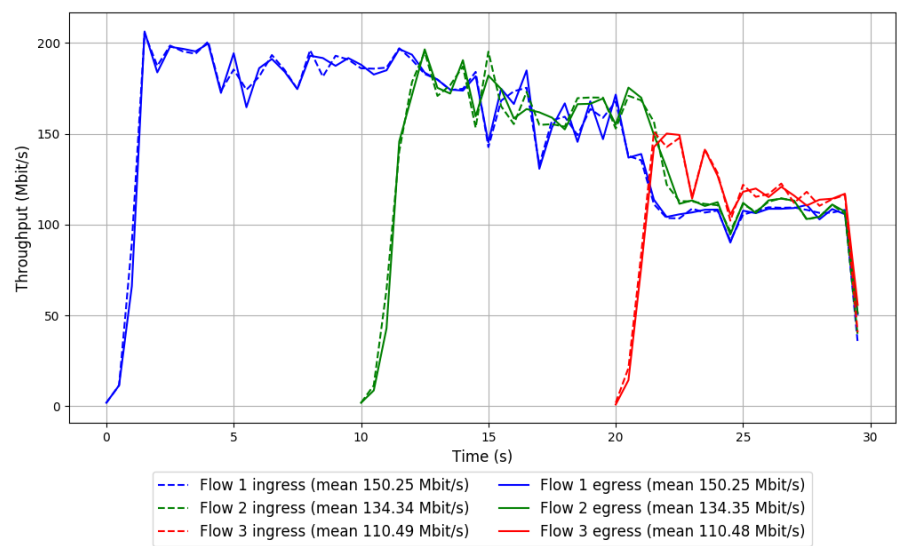


```
Run 3: Statistics of Indigo-calib

Start at: 2017-12-12 14:13:10
End at: 2017-12-12 14:13:40

# Below is generated by plot.py at 2017-12-12 18:03:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 274.96 Mbit/s
95th percentile per-packet one-way delay: 64.074 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 150.25 Mbit/s
95th percentile per-packet one-way delay: 63.920 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 134.35 Mbit/s
95th percentile per-packet one-way delay: 64.294 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 110.48 Mbit/s
95th percentile per-packet one-way delay: 64.302 ms
Loss rate: 0.00%
```


Run 3: Report of Indigo-calib — Data Link



Run 4: Statistics of Indigo-calib

Start at: 2017-12-12 14:25:31

End at: 2017-12-12 14:26:01

Below is generated by plot.py at 2017-12-12 18:04:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 272.00 Mbit/s

95th percentile per-packet one-way delay: 63.698 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 156.76 Mbit/s

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

Loss rate: 0.02%

-- Flow 2:

Average throughput: 120.76 Mbit/s

95th percentile per-packet one-way delay: 63.824 ms

Loss rate: 0.00%

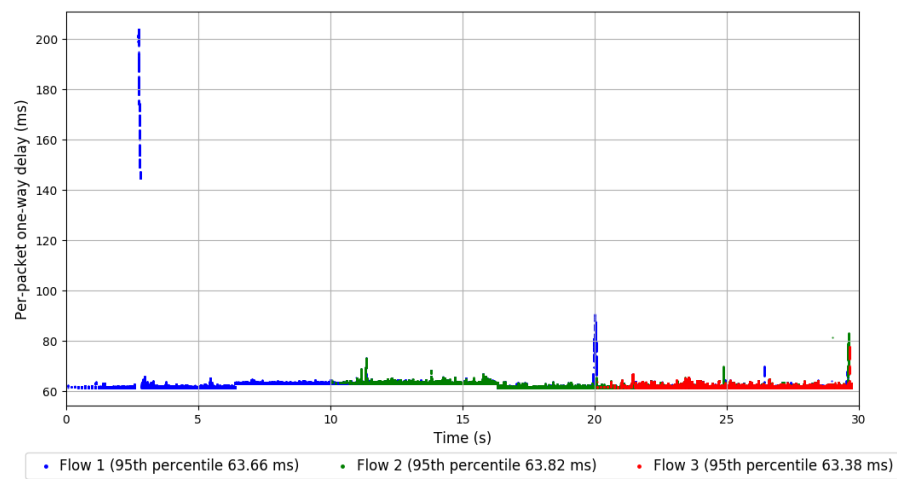
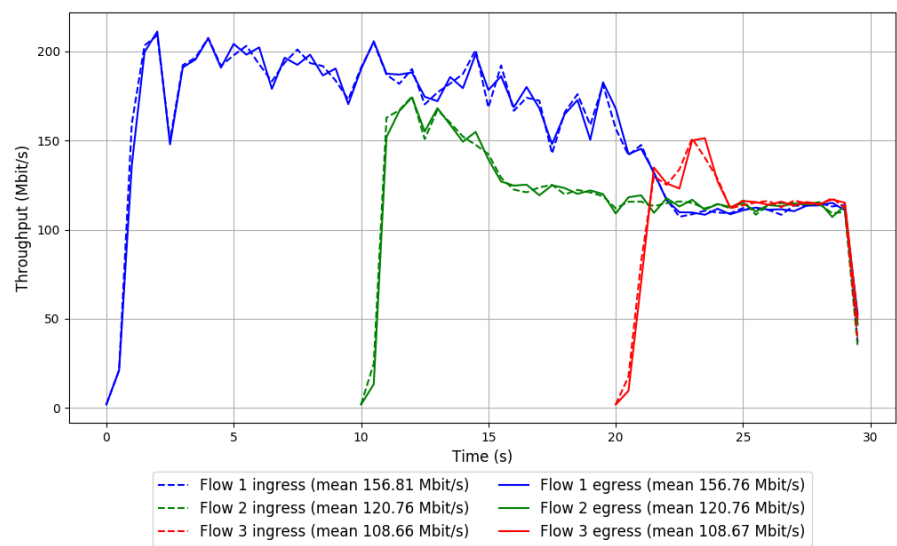
-- Flow 3:

Average throughput: 108.67 Mbit/s

95th percentile per-packet one-way delay: 63.384 ms

Loss rate: 0.00%

Run 4: Report of Indigo-calib — Data Link



Run 5: Statistics of Indigo-calib

Start at: 2017-12-12 14:37:59

End at: 2017-12-12 14:38:29

Below is generated by plot.py at 2017-12-12 18:04:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 285.91 Mbit/s

95th percentile per-packet one-way delay: 65.009 ms

Loss rate: 0.13%

-- Flow 1:

Average throughput: 158.17 Mbit/s

95th percentile per-packet one-way delay: 64.611 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 141.17 Mbit/s

95th percentile per-packet one-way delay: 65.410 ms

Loss rate: 0.13%

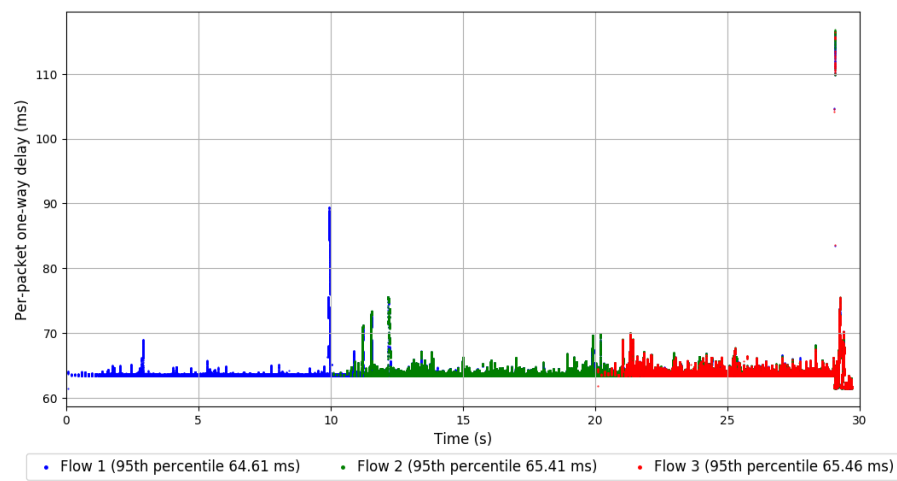
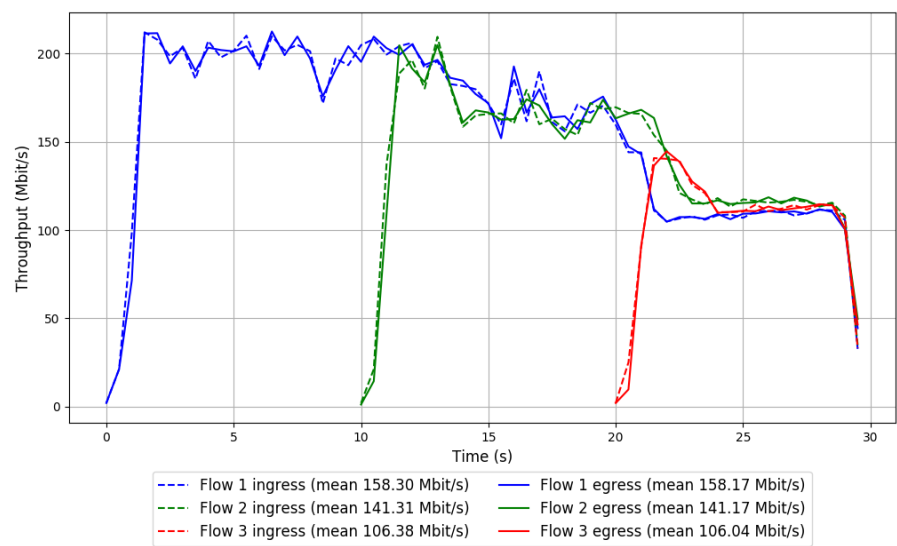
-- Flow 3:

Average throughput: 106.04 Mbit/s

95th percentile per-packet one-way delay: 65.461 ms

Loss rate: 0.32%

Run 5: Report of Indigo-calib — Data Link



Run 6: Statistics of Indigo-calib

Start at: 2017-12-12 14:50:25

End at: 2017-12-12 14:50:55

Below is generated by plot.py at 2017-12-12 18:04:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 290.97 Mbit/s

95th percentile per-packet one-way delay: 64.651 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 158.45 Mbit/s

95th percentile per-packet one-way delay: 64.140 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 139.09 Mbit/s

95th percentile per-packet one-way delay: 65.244 ms

Loss rate: 0.00%

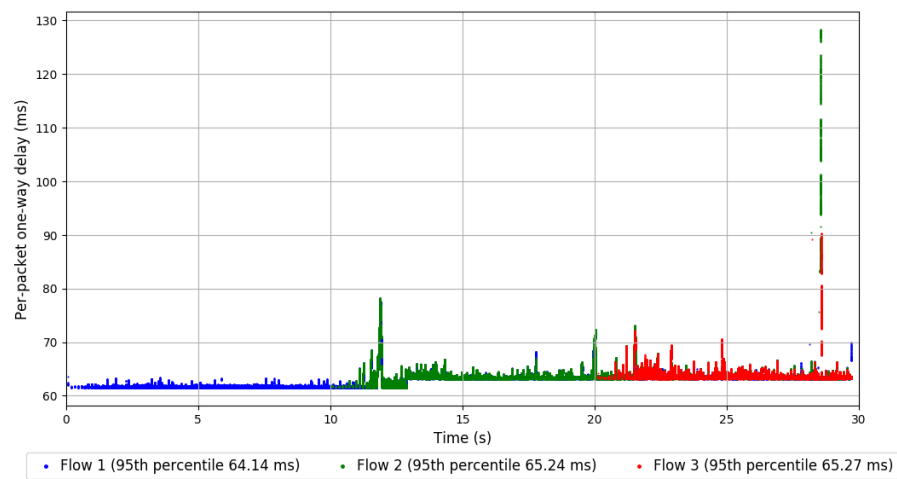
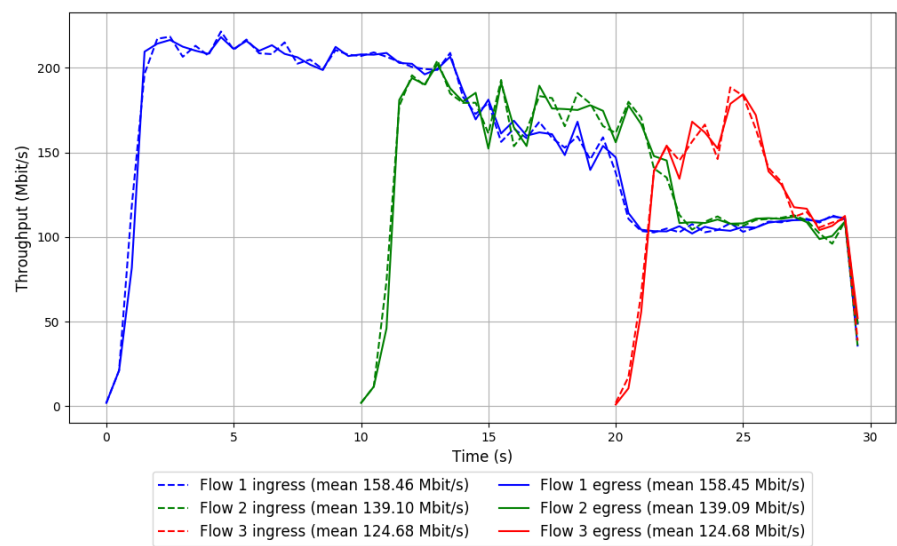
-- Flow 3:

Average throughput: 124.68 Mbit/s

95th percentile per-packet one-way delay: 65.274 ms

Loss rate: 0.02%

Run 6: Report of Indigo-calib — Data Link



Run 7: Statistics of Indigo-calib

Start at: 2017-12-12 15:02:44

End at: 2017-12-12 15:03:14

Below is generated by plot.py at 2017-12-12 18:05:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 278.24 Mbit/s

95th percentile per-packet one-way delay: 64.448 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 159.46 Mbit/s

95th percentile per-packet one-way delay: 64.228 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 130.46 Mbit/s

95th percentile per-packet one-way delay: 64.981 ms

Loss rate: 0.04%

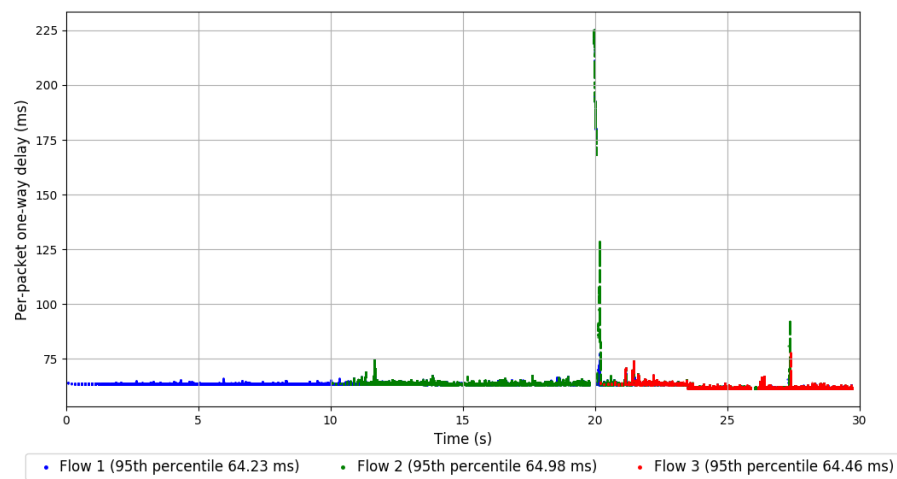
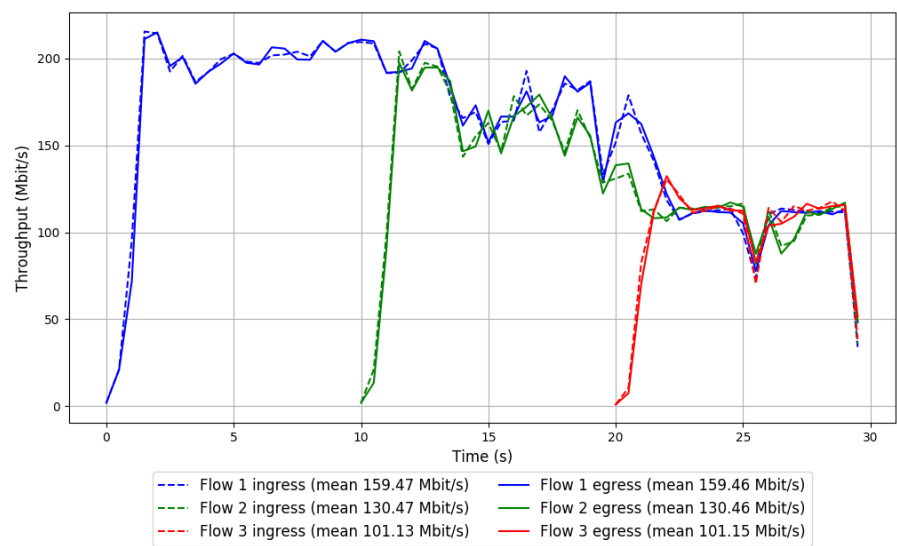
-- Flow 3:

Average throughput: 101.15 Mbit/s

95th percentile per-packet one-way delay: 64.461 ms

Loss rate: 0.00%

Run 7: Report of Indigo-calib — Data Link

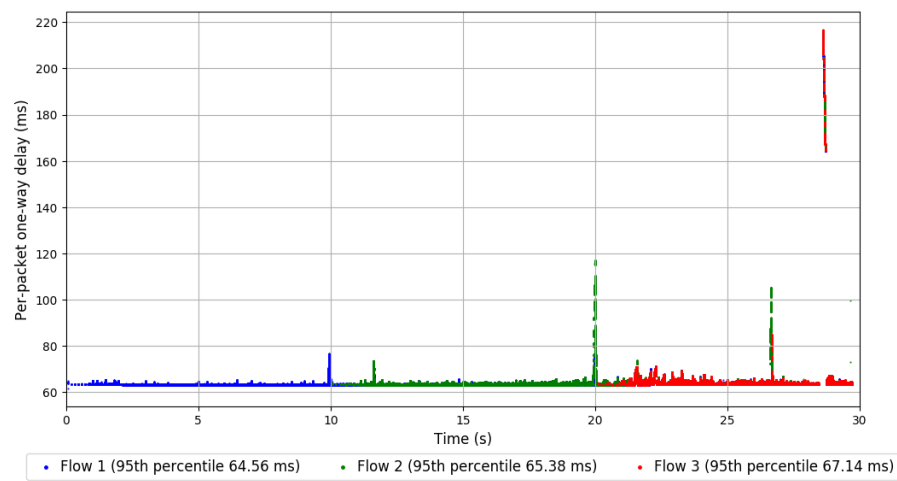
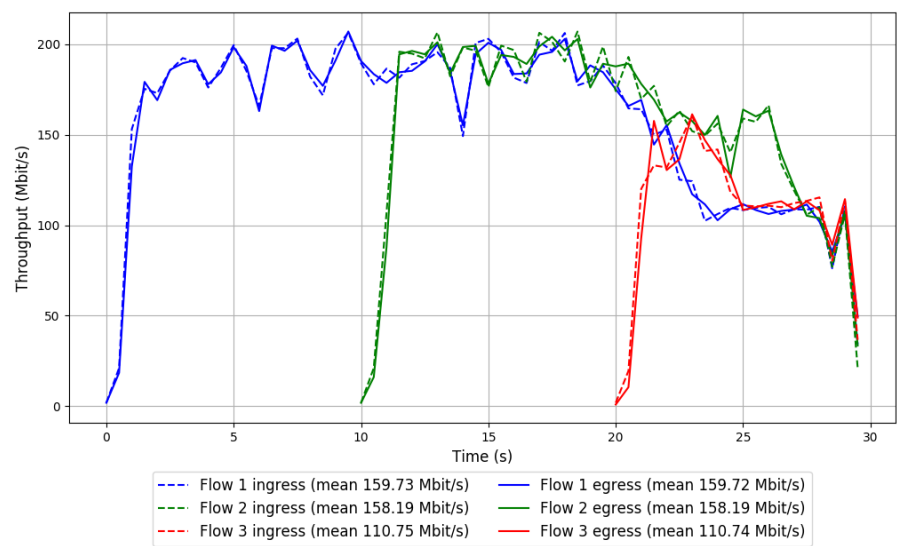


```
Run 8: Statistics of Indigo-calib

Start at: 2017-12-12 15:15:06
End at: 2017-12-12 15:15:36

# Below is generated by plot.py at 2017-12-12 18:05:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 300.30 Mbit/s
95th percentile per-packet one-way delay: 65.193 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 159.72 Mbit/s
95th percentile per-packet one-way delay: 64.555 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 158.19 Mbit/s
95th percentile per-packet one-way delay: 65.381 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 110.74 Mbit/s
95th percentile per-packet one-way delay: 67.143 ms
Loss rate: 0.00%
```

Run 8: Report of Indigo-calib — Data Link



Run 9: Statistics of Indigo-calib

Start at: 2017-12-12 15:27:11

End at: 2017-12-12 15:27:41

Below is generated by plot.py at 2017-12-12 18:05:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 286.81 Mbit/s

95th percentile per-packet one-way delay: 67.613 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 160.82 Mbit/s

95th percentile per-packet one-way delay: 66.379 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 142.92 Mbit/s

95th percentile per-packet one-way delay: 69.592 ms

Loss rate: 0.00%

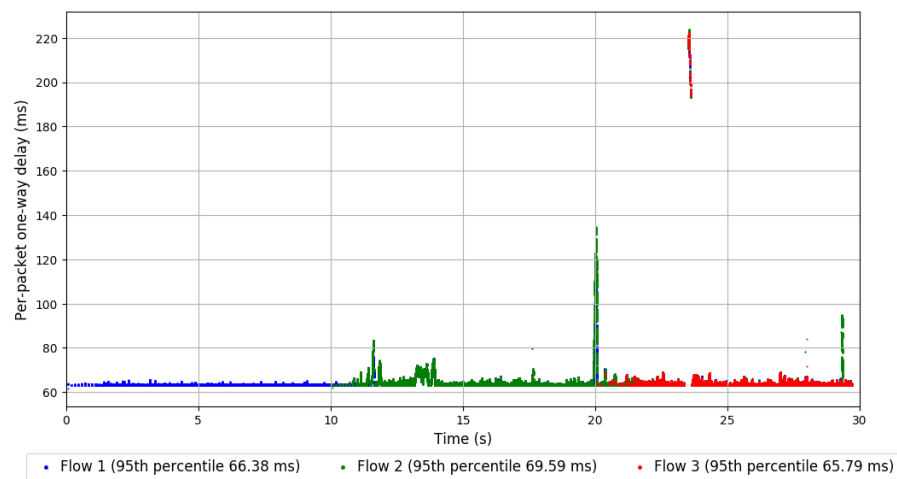
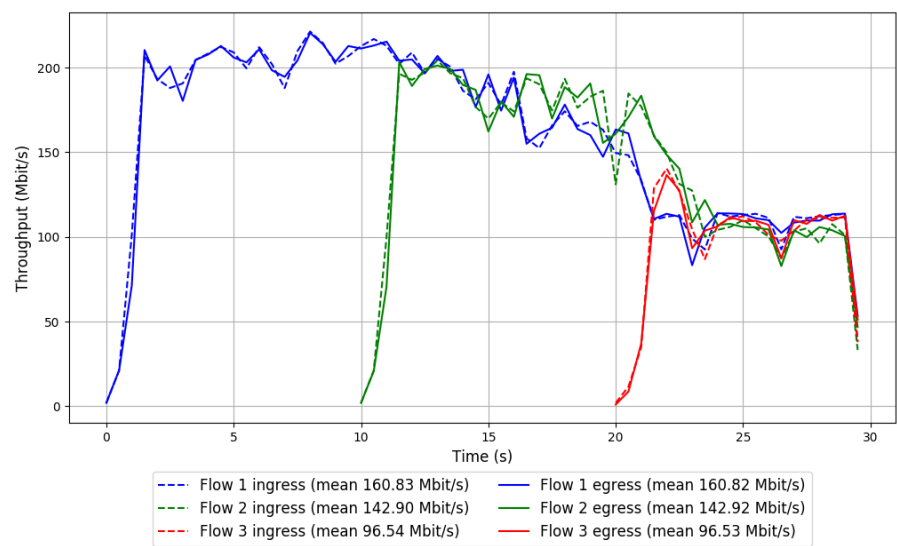
-- Flow 3:

Average throughput: 96.53 Mbit/s

95th percentile per-packet one-way delay: 65.792 ms

Loss rate: 0.02%

Run 9: Report of Indigo-calib — Data Link



Run 10: Statistics of Indigo-calib

Start at: 2017-12-12 15:39:22

End at: 2017-12-12 15:39:52

Below is generated by plot.py at 2017-12-12 18:05:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 278.40 Mbit/s

95th percentile per-packet one-way delay: 64.829 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 158.52 Mbit/s

95th percentile per-packet one-way delay: 64.570 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 125.68 Mbit/s

95th percentile per-packet one-way delay: 65.093 ms

Loss rate: 0.01%

-- Flow 3:

Average throughput: 112.85 Mbit/s

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

Loss rate: 0.00%

Run 10: Report of Indigo-calib — Data Link

