

Pantheon Report

Generated at 2017-12-06 10:01:27 (UTC).

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

Repeated the test of 14 congestion control schemes 10 times.

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

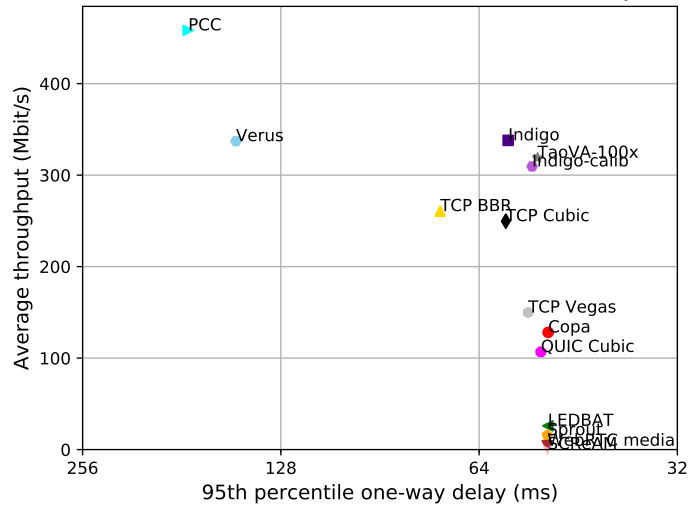
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

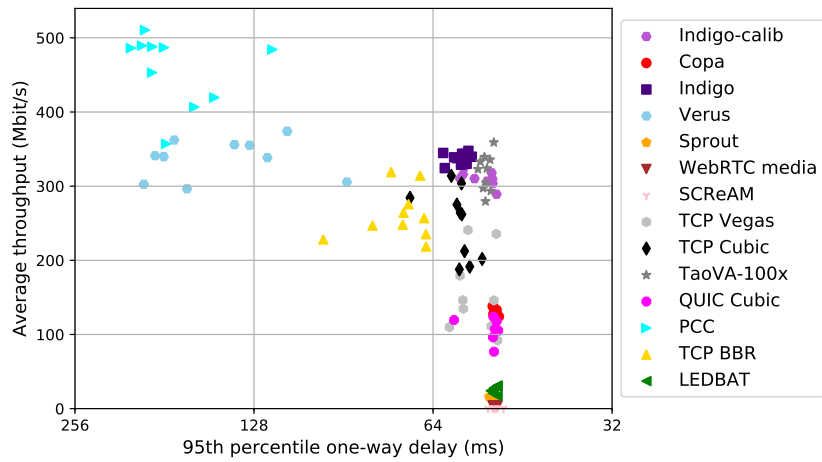
Git summary:

```
branch: indigos @ 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 @ f1a14bffe749737437f61b1eaaeb30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
  M src/examples/cellsim.cc
  M src/examples/sproutbt2.cc
  M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/webRTC @ a488197ddd041ace68a42849b2540ad834825f42
```

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



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



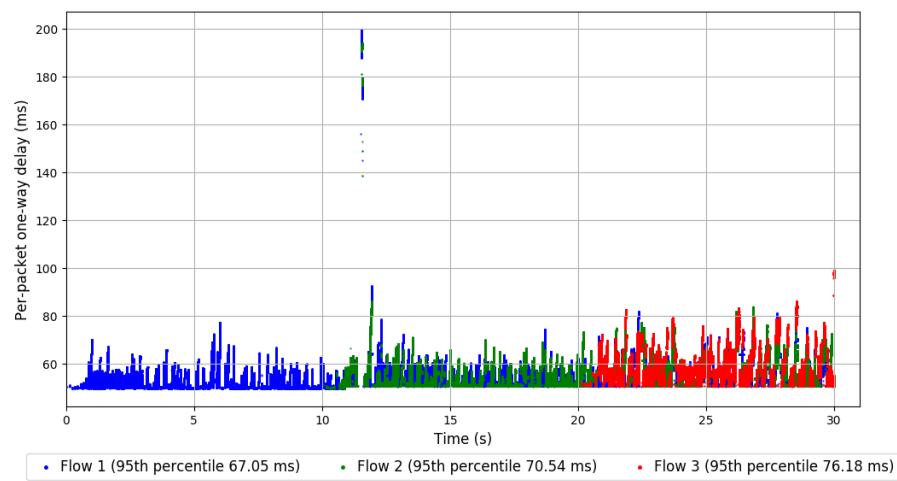
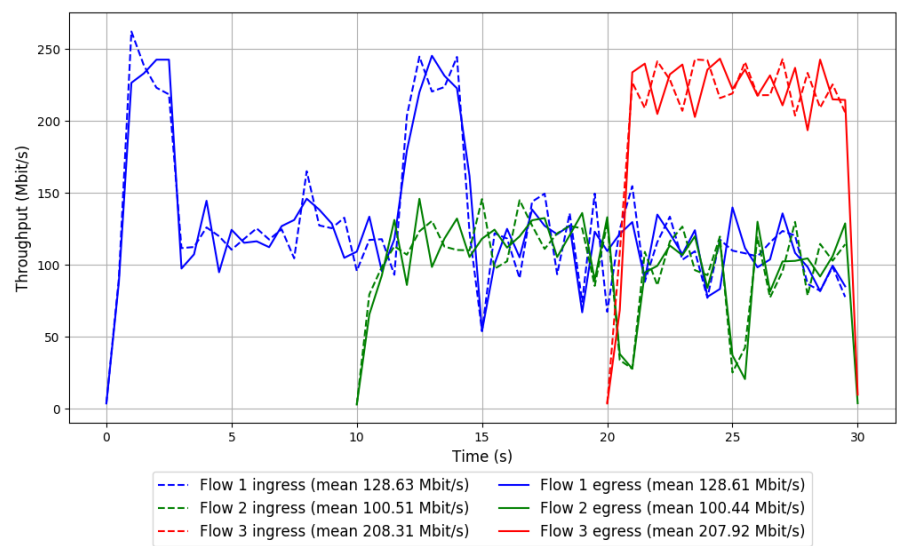
scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	10	125.93	131.28	143.50	69.18	72.84	80.50	0.01	0.01	0.03
TCP Cubic	10	132.30	123.51	106.09	57.46	57.17	58.25	0.02	0.01	0.03
LEDBAT	10	13.61	13.83	9.54	50.33	50.21	50.31	0.03	0.15	0.03
PCC	10	437.58	19.40	23.42	177.17	170.83	162.03	1.22	0.96	1.72
QUIC Cubic	7	58.72	51.15	43.20	52.32	49.99	49.41	0.00	0.00	0.00
SCReAM	10	0.22	0.22	0.22	50.90	49.98	49.71	0.00	0.00	0.00
WebRTC media	10	2.24	1.41	0.58	50.11	50.00	50.05	0.01	0.00	0.00
Sprout	10	7.93	7.83	7.48	50.46	50.44	50.23	0.03	0.01	0.02
TaoVA-100x	10	200.40	126.01	144.70	51.81	51.99	53.33	0.00	0.00	0.00
TCP Vegas	10	75.14	57.37	110.16	52.11	53.54	53.88	0.01	0.01	0.00
Verus	10	209.33	148.41	91.12	141.49	151.93	161.32	0.56	0.36	1.24
Copa	10	71.54	69.85	44.61	50.18	49.94	53.36	0.00	0.00	4.62
Indigo	10	179.64	171.76	137.73	55.60	58.27	61.01	0.00	0.00	0.00
Indigo-calib	10	161.62	156.69	135.76	51.12	53.44	56.11	0.00	0.00	0.03

```
Run 1: Statistics of TCP BBR

Start at: 2017-12-06 05:41:23
End at: 2017-12-06 05:41:53

# Below is generated by plot.py at 2017-12-06 09:01:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 264.12 Mbit/s
95th percentile per-packet one-way delay: 71.753 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 128.61 Mbit/s
95th percentile per-packet one-way delay: 67.051 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 100.44 Mbit/s
95th percentile per-packet one-way delay: 70.544 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 207.92 Mbit/s
95th percentile per-packet one-way delay: 76.179 ms
Loss rate: 0.20%
```


Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2017-12-06 05:53:31

End at: 2017-12-06 05:54:01

Below is generated by plot.py at 2017-12-06 09:01:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 256.90 Mbit/s

95th percentile per-packet one-way delay: 66.245 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 122.95 Mbit/s

95th percentile per-packet one-way delay: 66.030 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 146.02 Mbit/s

95th percentile per-packet one-way delay: 63.597 ms

Loss rate: 0.00%

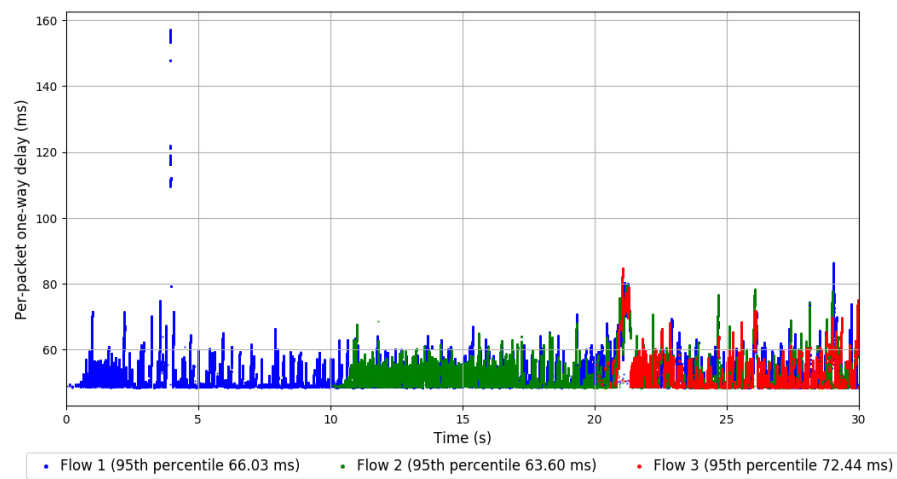
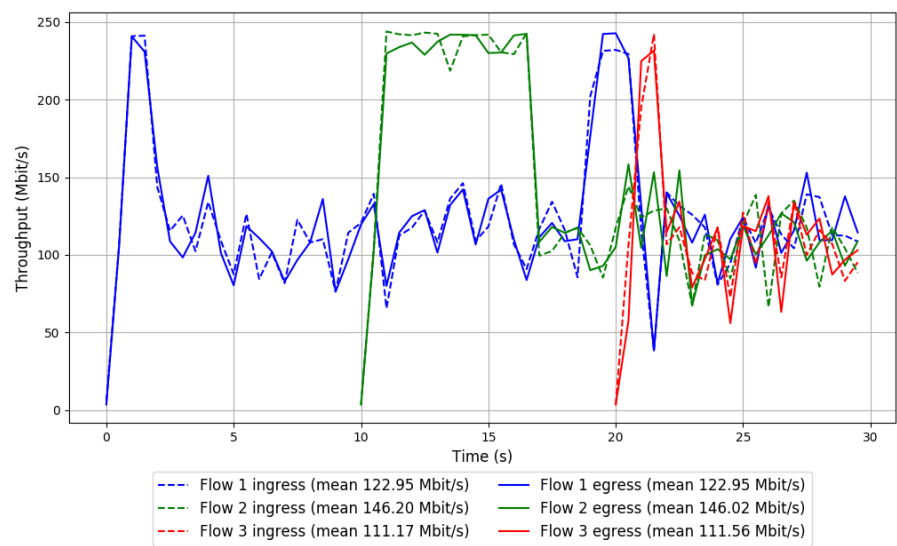
-- Flow 3:

Average throughput: 111.56 Mbit/s

95th percentile per-packet one-way delay: 72.440 ms

Loss rate: 0.01%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2017-12-06 06:05:47

End at: 2017-12-06 06:06:17

Below is generated by plot.py at 2017-12-06 09:01:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 246.83 Mbit/s

95th percentile per-packet one-way delay: 80.902 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 106.23 Mbit/s

95th percentile per-packet one-way delay: 74.188 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 140.42 Mbit/s

95th percentile per-packet one-way delay: 81.448 ms

Loss rate: 0.01%

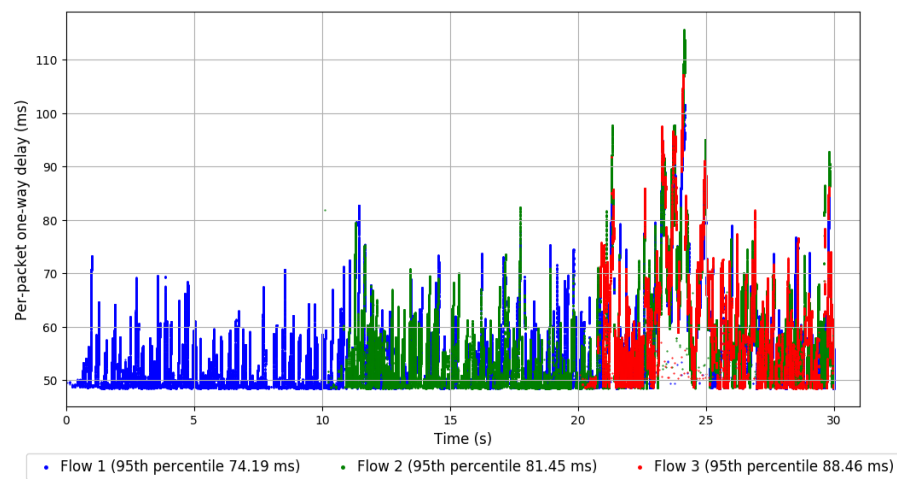
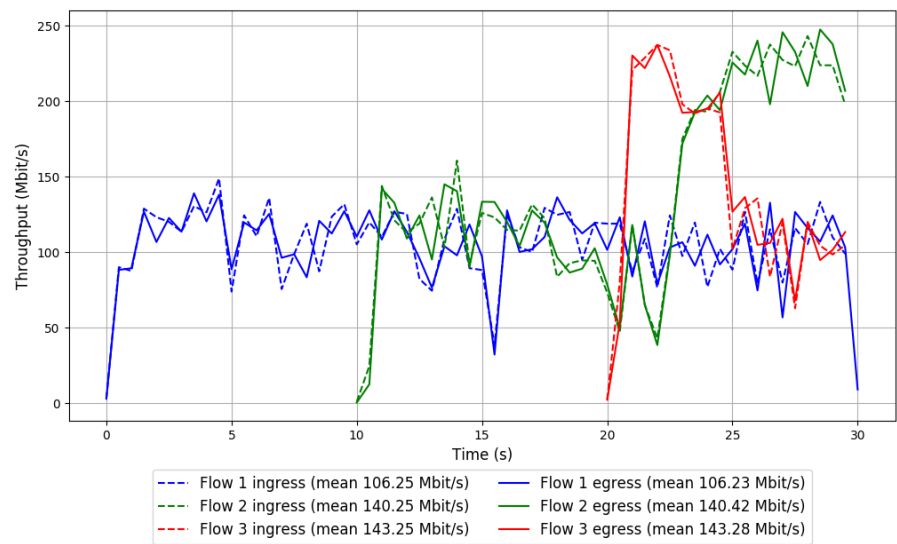
-- Flow 3:

Average throughput: 143.28 Mbit/s

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

Loss rate: 0.00%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2017-12-06 06:18:05

End at: 2017-12-06 06:18:35

Below is generated by plot.py at 2017-12-06 09:01:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 218.61 Mbit/s

95th percentile per-packet one-way delay: 65.742 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 105.44 Mbit/s

95th percentile per-packet one-way delay: 65.069 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 114.73 Mbit/s

95th percentile per-packet one-way delay: 65.099 ms

Loss rate: 0.00%

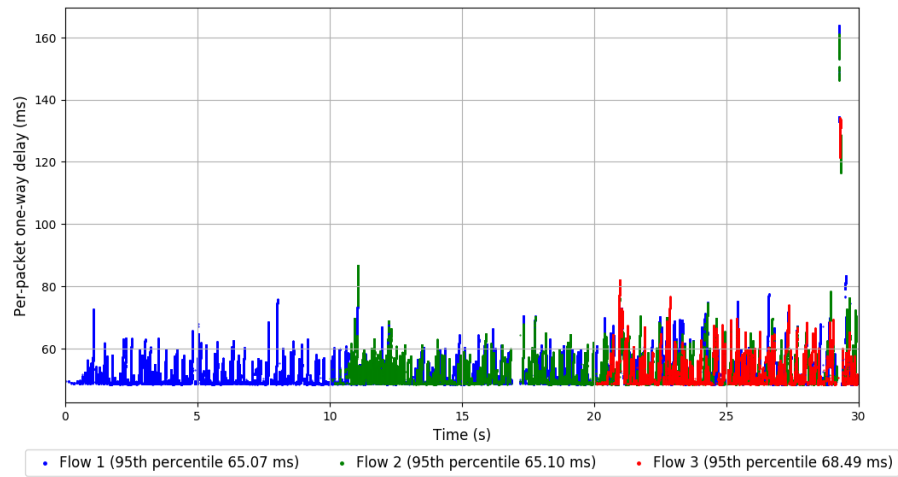
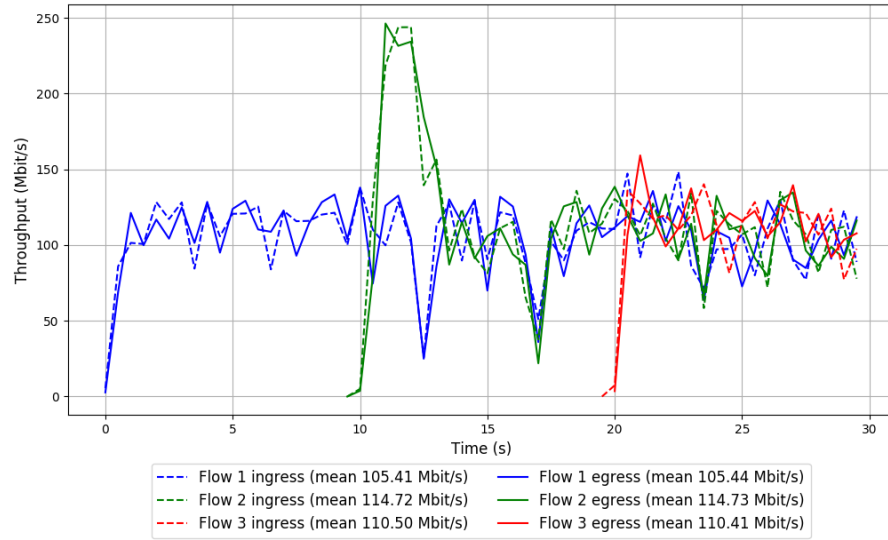
-- Flow 3:

Average throughput: 110.41 Mbit/s

95th percentile per-packet one-way delay: 68.490 ms

Loss rate: 0.07%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2017-12-06 06:30:16

End at: 2017-12-06 06:30:46

Below is generated by plot.py at 2017-12-06 09:01:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 248.15 Mbit/s

95th percentile per-packet one-way delay: 71.960 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 108.47 Mbit/s

95th percentile per-packet one-way delay: 67.894 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 112.05 Mbit/s

95th percentile per-packet one-way delay: 71.178 ms

Loss rate: 0.00%

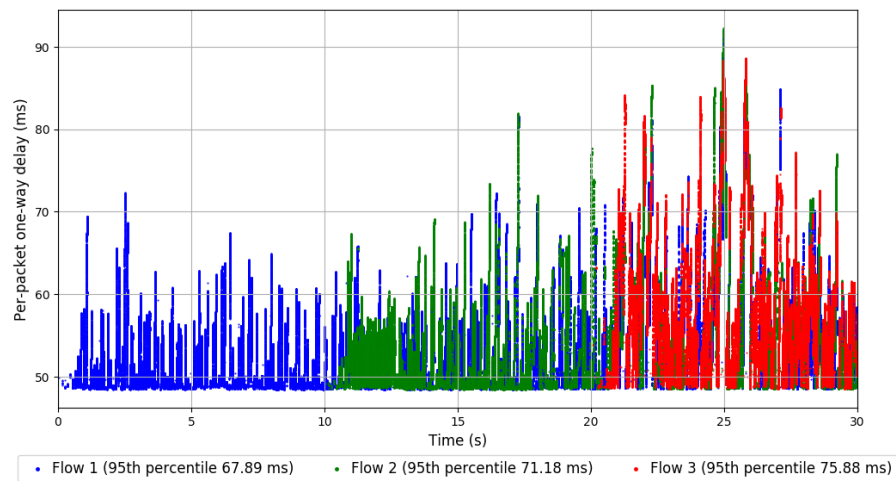
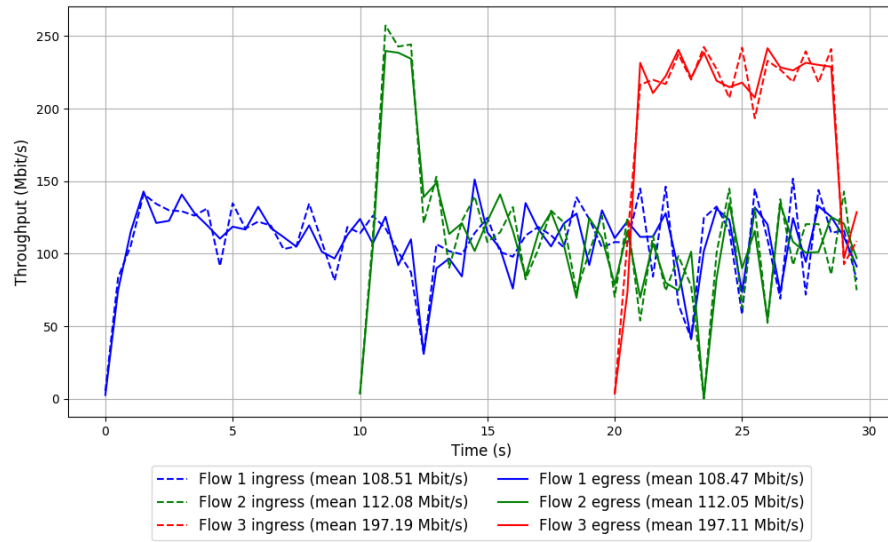
-- Flow 3:

Average throughput: 197.11 Mbit/s

95th percentile per-packet one-way delay: 75.884 ms

Loss rate: 0.00%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2017-12-06 06:42:39

End at: 2017-12-06 06:43:09

Below is generated by plot.py at 2017-12-06 09:02:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 275.57 Mbit/s

95th percentile per-packet one-way delay: 70.372 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 149.44 Mbit/s

95th percentile per-packet one-way delay: 65.497 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 109.12 Mbit/s

95th percentile per-packet one-way delay: 70.780 ms

Loss rate: 0.01%

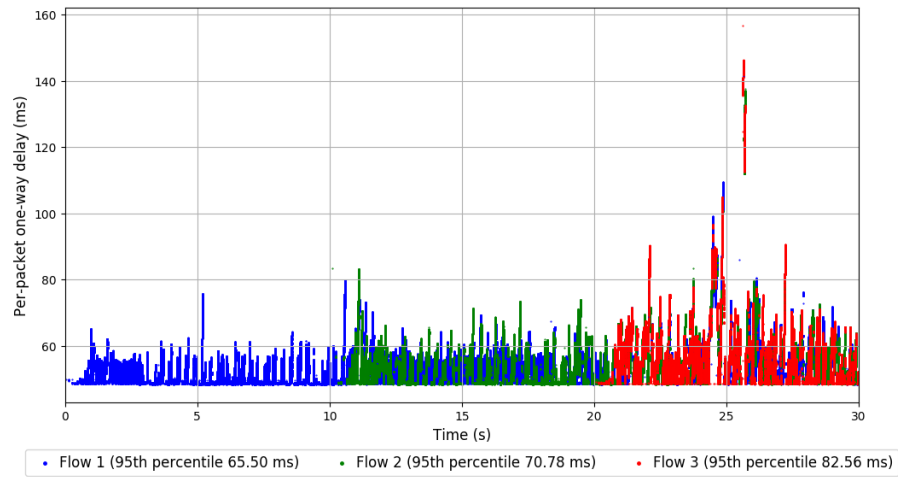
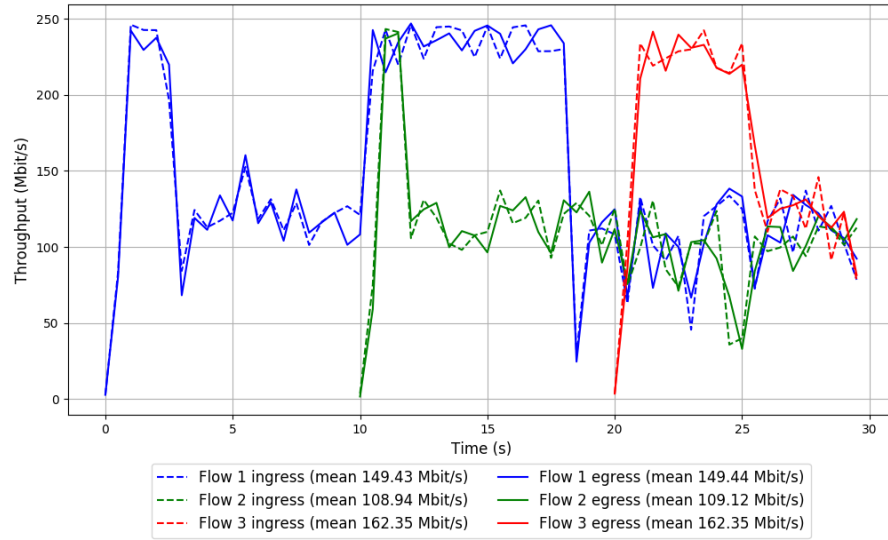
-- Flow 3:

Average throughput: 162.35 Mbit/s

95th percentile per-packet one-way delay: 82.563 ms

Loss rate: 0.00%

Run 6: Report of TCP BBR — Data Link

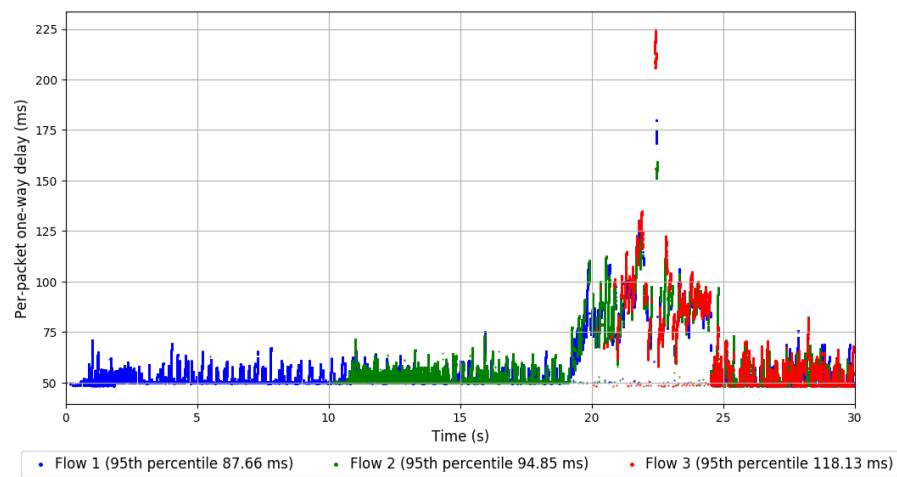
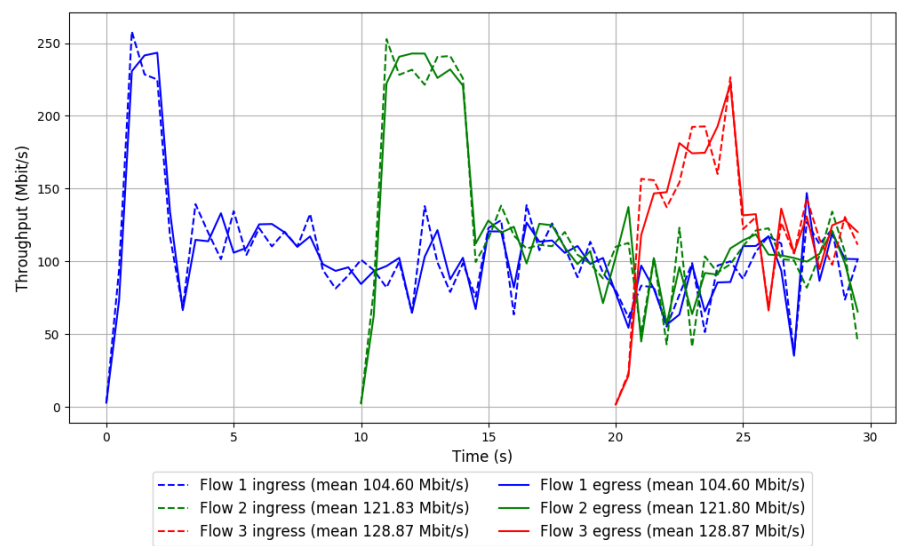


```
Run 7: Statistics of TCP BBR

Start at: 2017-12-06 06:54:42
End at: 2017-12-06 06:55:12

# Below is generated by plot.py at 2017-12-06 09:02:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 228.11 Mbit/s
95th percentile per-packet one-way delay: 97.872 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 104.60 Mbit/s
95th percentile per-packet one-way delay: 87.656 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 121.80 Mbit/s
95th percentile per-packet one-way delay: 94.848 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 128.87 Mbit/s
95th percentile per-packet one-way delay: 118.134 ms
Loss rate: 0.00%
```

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2017-12-06 07:06:58

End at: 2017-12-06 07:07:28

Below is generated by plot.py at 2017-12-06 09:02:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 235.24 Mbit/s

95th percentile per-packet one-way delay: 65.788 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 117.43 Mbit/s

95th percentile per-packet one-way delay: 64.504 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 108.07 Mbit/s

95th percentile per-packet one-way delay: 66.532 ms

Loss rate: 0.00%

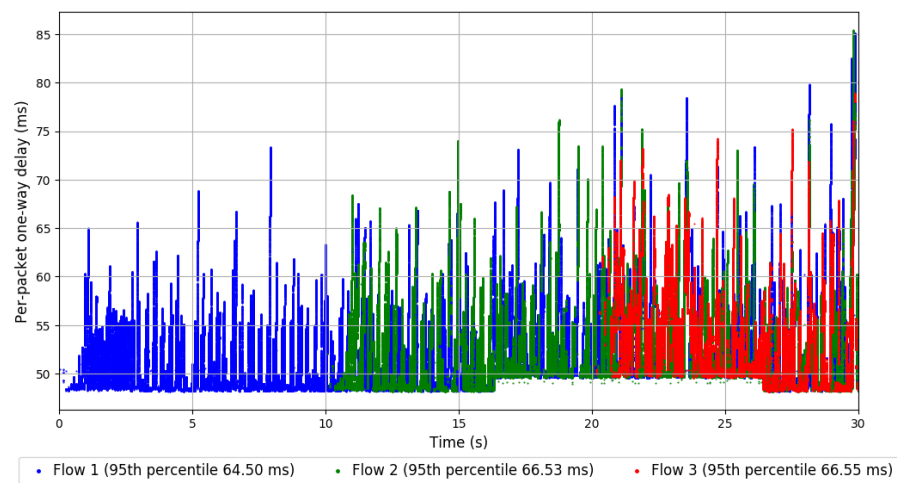
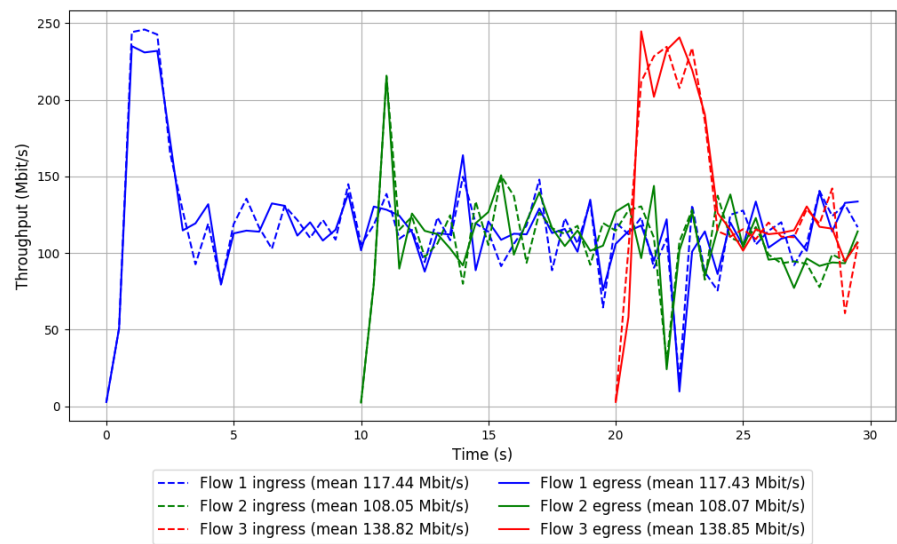
-- Flow 3:

Average throughput: 138.85 Mbit/s

95th percentile per-packet one-way delay: 66.552 ms

Loss rate: 0.00%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2017-12-06 07:19:04

End at: 2017-12-06 07:19:34

Below is generated by plot.py at 2017-12-06 09:06:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 314.28 Mbit/s

95th percentile per-packet one-way delay: 67.275 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 178.73 Mbit/s

95th percentile per-packet one-way delay: 65.239 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 149.79 Mbit/s

95th percentile per-packet one-way delay: 68.216 ms

Loss rate: 0.00%

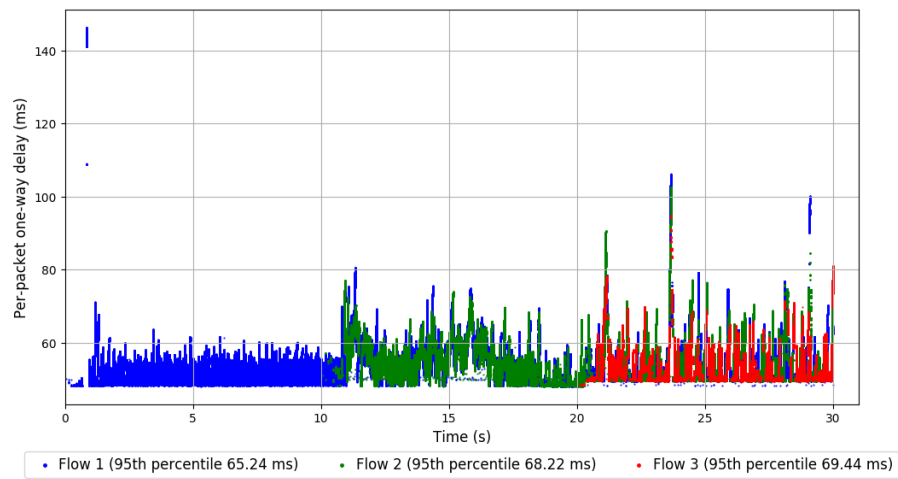
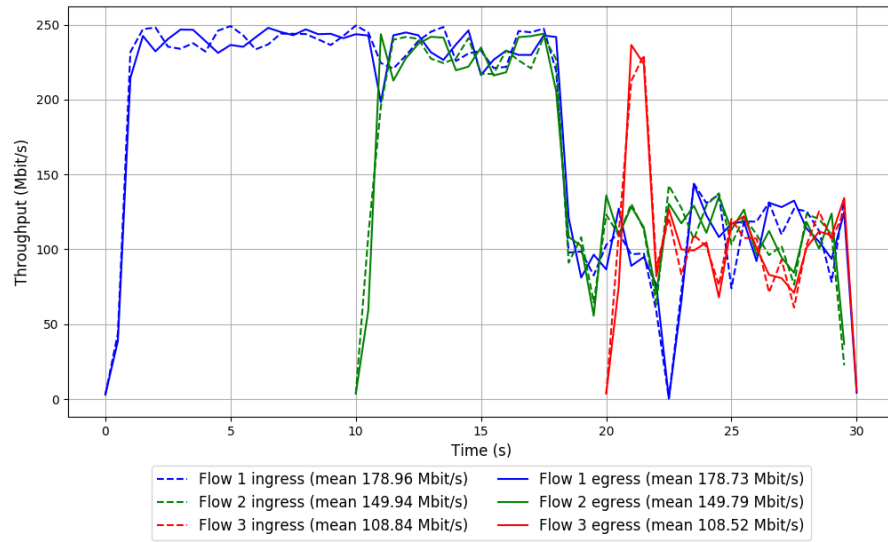
-- Flow 3:

Average throughput: 108.52 Mbit/s

95th percentile per-packet one-way delay: 69.436 ms

Loss rate: 0.00%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2017-12-06 07:31:14

End at: 2017-12-06 07:31:44

Below is generated by plot.py at 2017-12-06 09:06:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 318.96 Mbit/s

95th percentile per-packet one-way delay: 75.279 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 137.36 Mbit/s

95th percentile per-packet one-way delay: 68.638 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 210.33 Mbit/s

95th percentile per-packet one-way delay: 76.120 ms

Loss rate: 0.07%

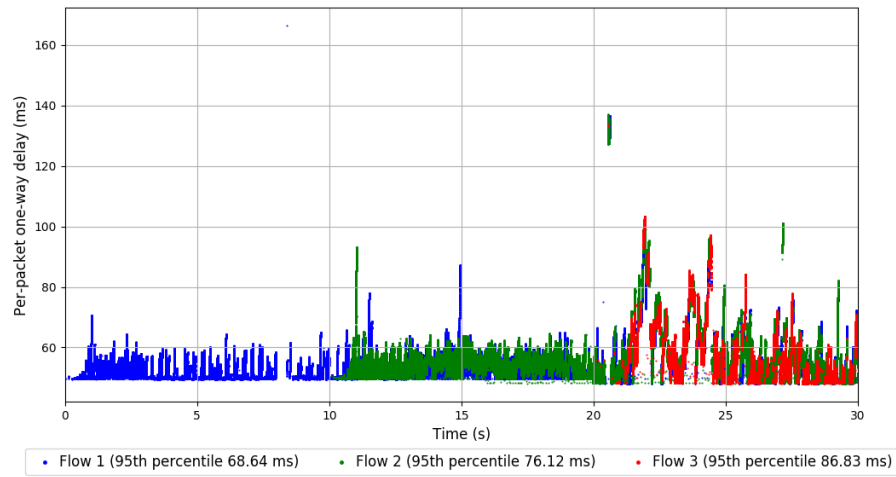
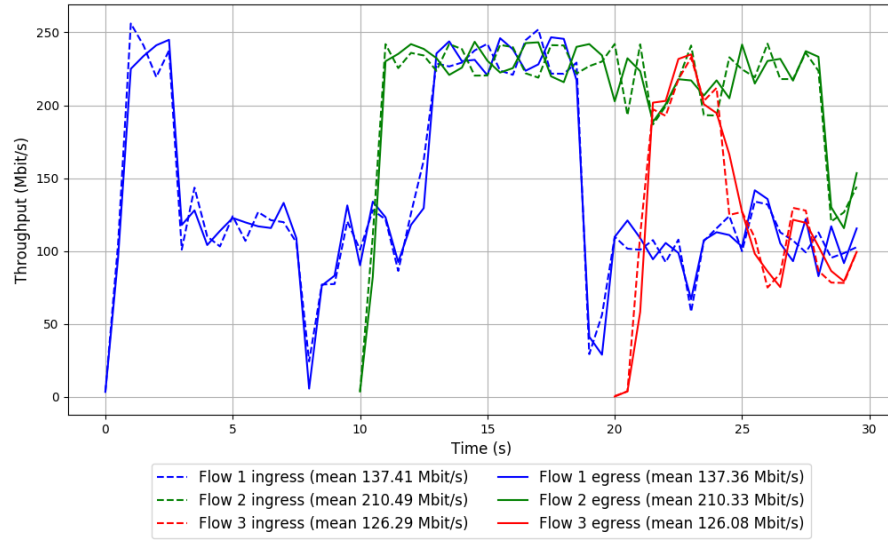
-- Flow 3:

Average throughput: 126.08 Mbit/s

95th percentile per-packet one-way delay: 86.835 ms

Loss rate: 0.01%

Run 10: Report of TCP BBR — Data Link

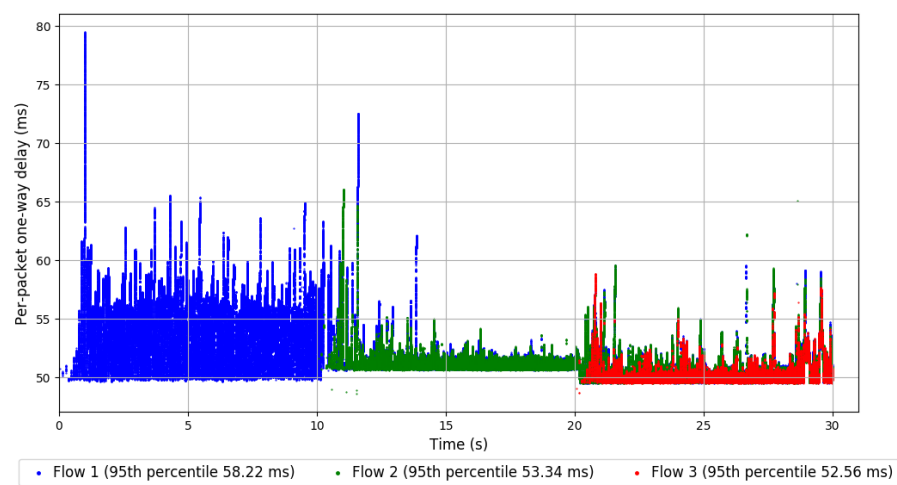
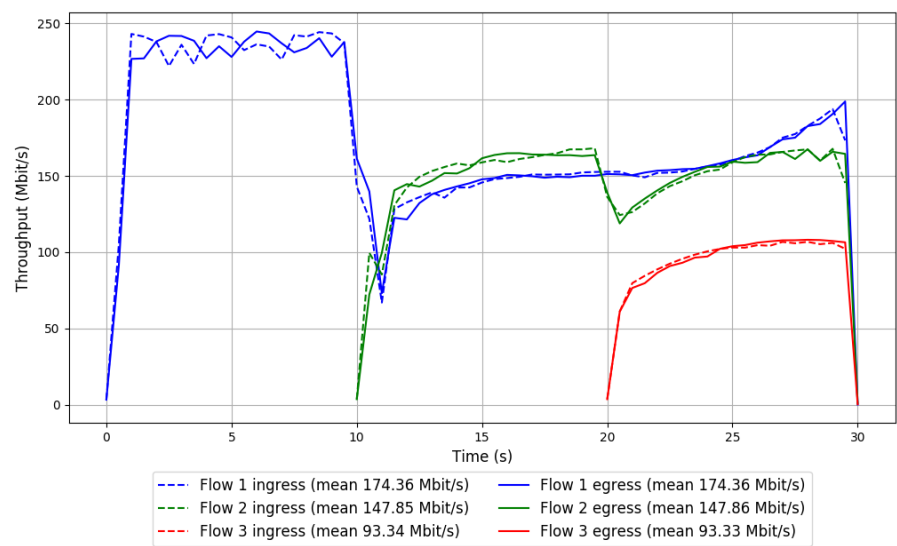


```
Run 1: Statistics of TCP Cubic

Start at: 2017-12-06 05:33:14
End at: 2017-12-06 05:33:44

# Below is generated by plot.py at 2017-12-06 09:06:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 303.74 Mbit/s
95th percentile per-packet one-way delay: 57.320 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 174.36 Mbit/s
95th percentile per-packet one-way delay: 58.224 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 147.86 Mbit/s
95th percentile per-packet one-way delay: 53.342 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 93.33 Mbit/s
95th percentile per-packet one-way delay: 52.559 ms
Loss rate: 0.00%
```

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2017-12-06 05:45:22

End at: 2017-12-06 05:45:52

Below is generated by plot.py at 2017-12-06 09:06:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 313.88 Mbit/s

95th percentile per-packet one-way delay: 59.617 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 147.63 Mbit/s

95th percentile per-packet one-way delay: 59.139 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 184.91 Mbit/s

95th percentile per-packet one-way delay: 59.528 ms

Loss rate: 0.00%

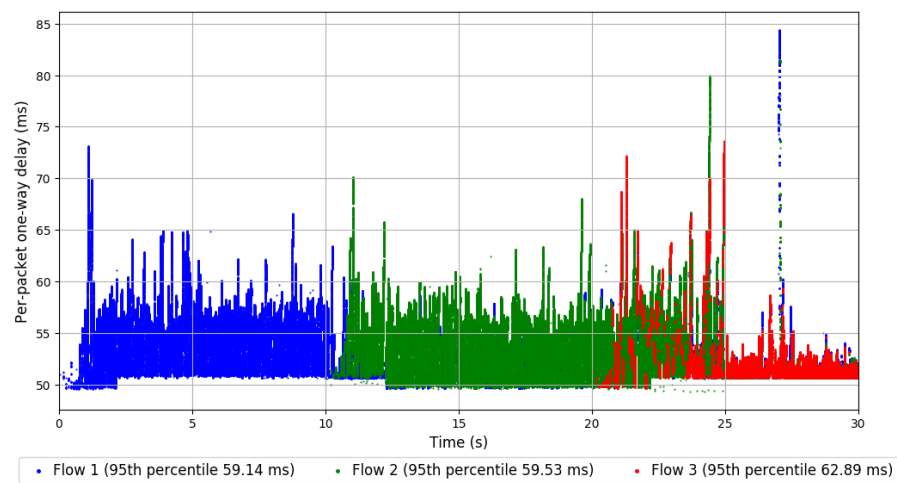
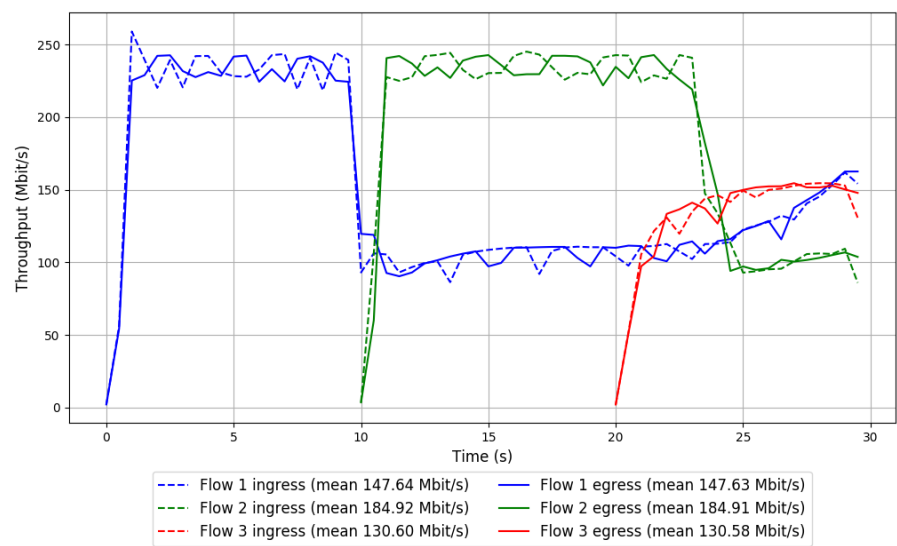
-- Flow 3:

Average throughput: 130.58 Mbit/s

95th percentile per-packet one-way delay: 62.888 ms

Loss rate: 0.02%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2017-12-06 05:57:34

End at: 2017-12-06 05:58:04

Below is generated by plot.py at 2017-12-06 09:06:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 284.23 Mbit/s

95th percentile per-packet one-way delay: 69.972 ms

Loss rate: 0.11%

-- Flow 1:

Average throughput: 128.58 Mbit/s

95th percentile per-packet one-way delay: 67.545 ms

Loss rate: 0.21%

-- Flow 2:

Average throughput: 131.09 Mbit/s

95th percentile per-packet one-way delay: 69.971 ms

Loss rate: 0.06%

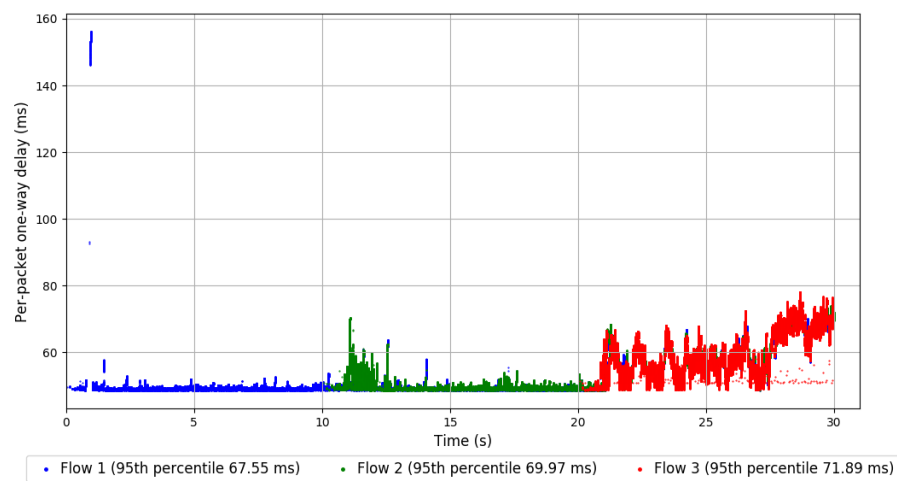
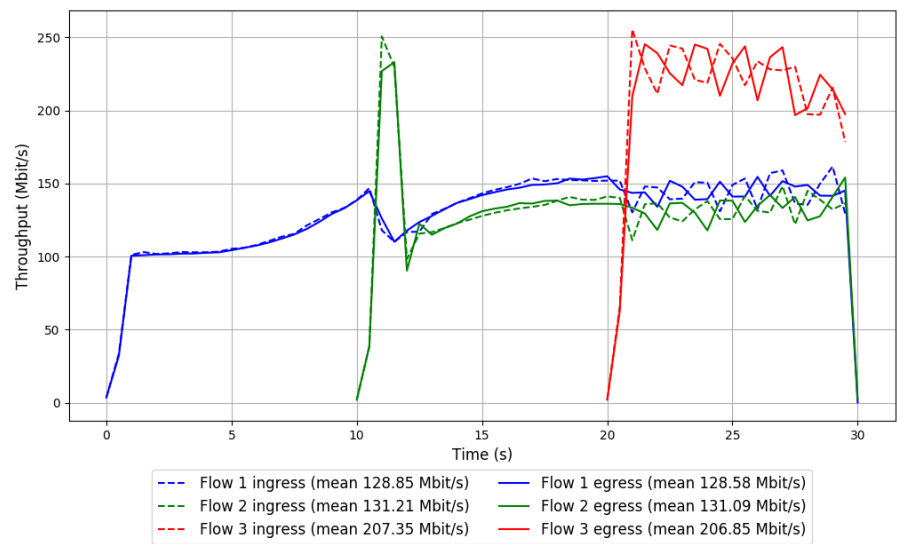
-- Flow 3:

Average throughput: 206.85 Mbit/s

95th percentile per-packet one-way delay: 71.893 ms

Loss rate: 0.00%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2017-12-06 06:09:49

End at: 2017-12-06 06:10:19

Below is generated by plot.py at 2017-12-06 09:06:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 191.50 Mbit/s

95th percentile per-packet one-way delay: 55.528 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 140.13 Mbit/s

95th percentile per-packet one-way delay: 52.680 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 14.41 Mbit/s

95th percentile per-packet one-way delay: 51.110 ms

Loss rate: 0.02%

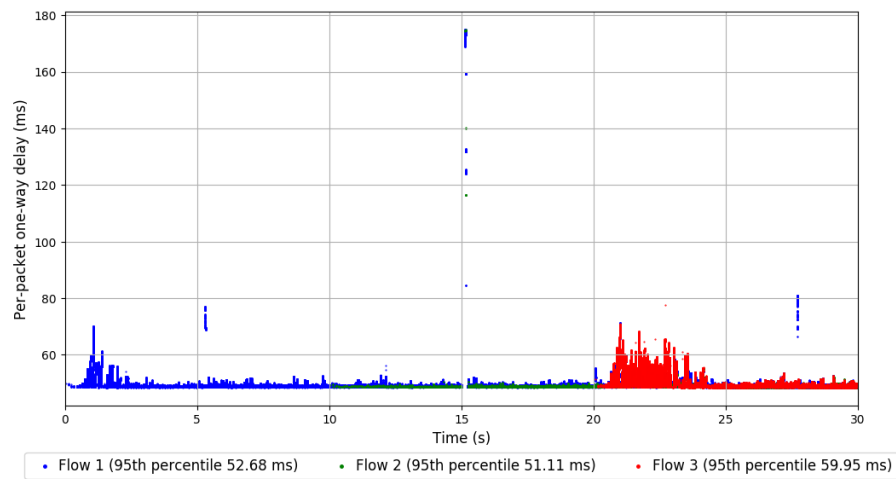
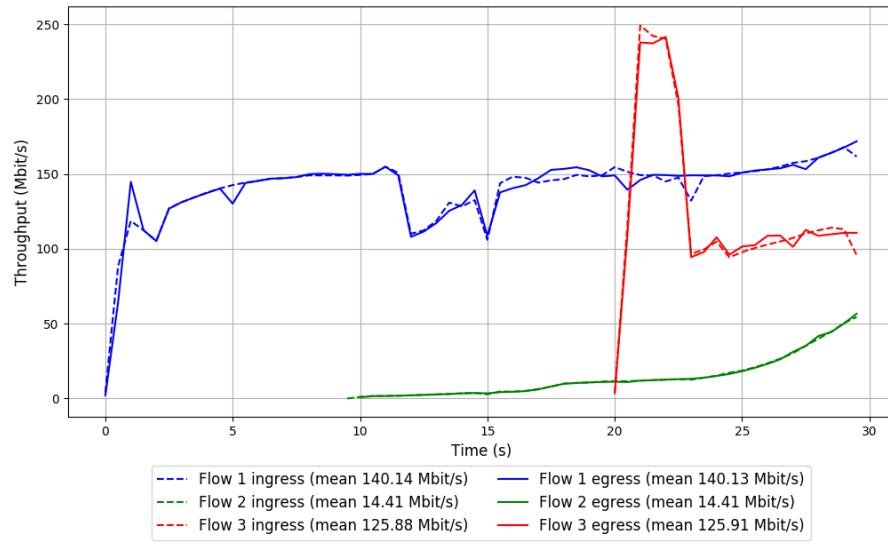
-- Flow 3:

Average throughput: 125.91 Mbit/s

95th percentile per-packet one-way delay: 59.953 ms

Loss rate: 0.00%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2017-12-06 06:22:09

End at: 2017-12-06 06:22:39

Below is generated by plot.py at 2017-12-06 09:06:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 262.08 Mbit/s

95th percentile per-packet one-way delay: 57.250 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 124.99 Mbit/s

95th percentile per-packet one-way delay: 57.007 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 140.54 Mbit/s

95th percentile per-packet one-way delay: 56.699 ms

Loss rate: 0.00%

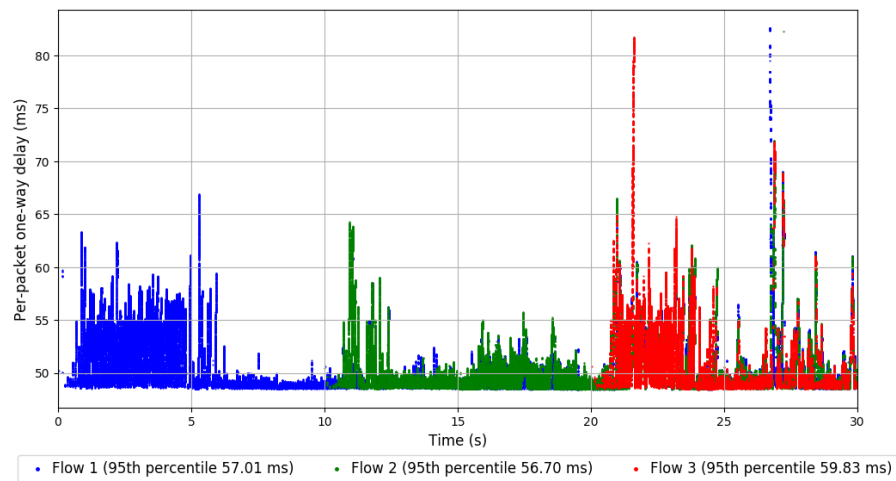
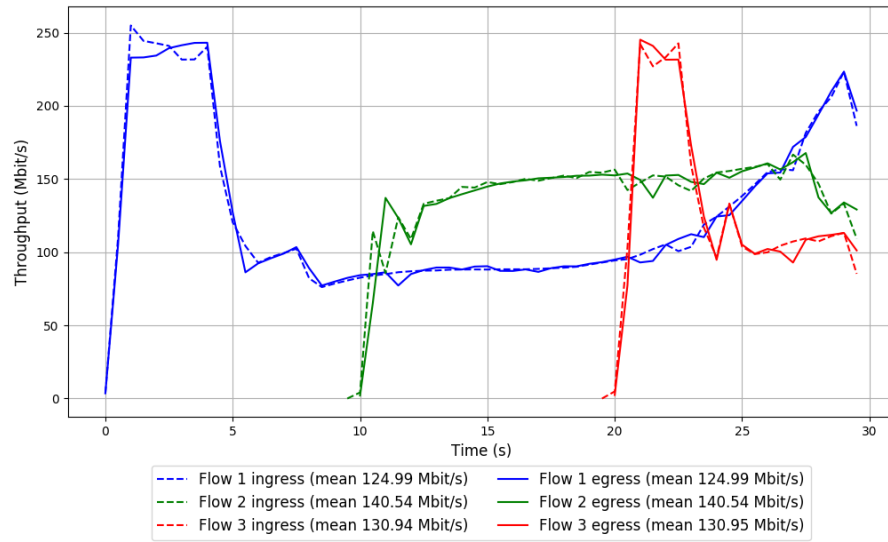
-- Flow 3:

Average throughput: 130.95 Mbit/s

95th percentile per-packet one-way delay: 59.830 ms

Loss rate: 0.01%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2017-12-06 06:34:20

End at: 2017-12-06 06:34:50

Below is generated by plot.py at 2017-12-06 09:06:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 275.10 Mbit/s

95th percentile per-packet one-way delay: 58.353 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 112.88 Mbit/s

95th percentile per-packet one-way delay: 57.005 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 149.74 Mbit/s

95th percentile per-packet one-way delay: 58.044 ms

Loss rate: 0.00%

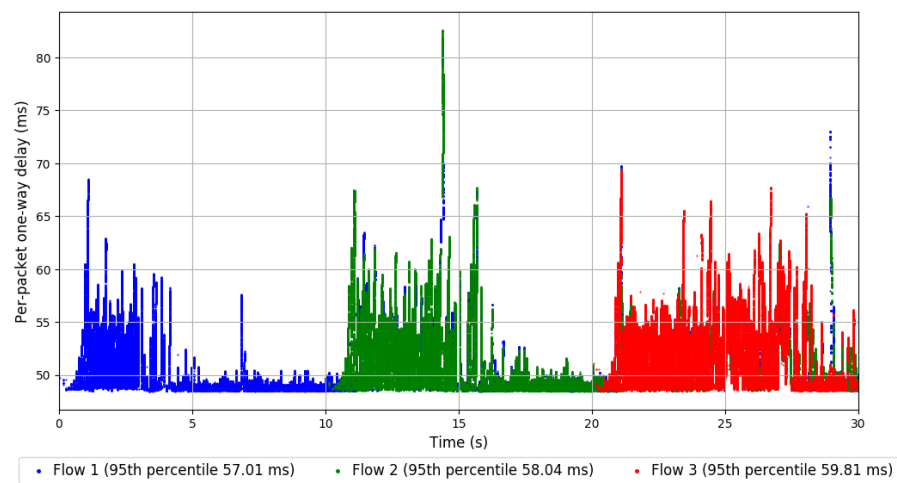
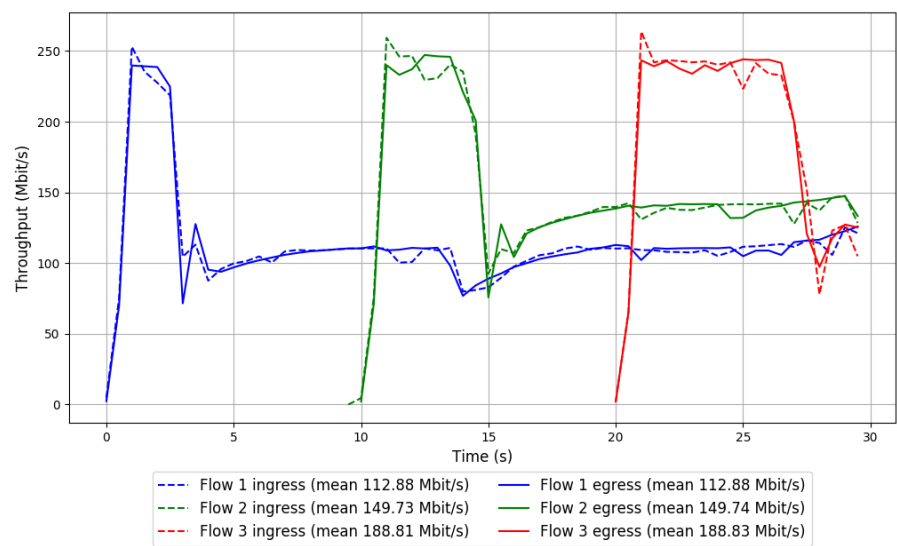
-- Flow 3:

Average throughput: 188.83 Mbit/s

95th percentile per-packet one-way delay: 59.806 ms

Loss rate: 0.00%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2017-12-06 06:46:41

End at: 2017-12-06 06:47:11

Below is generated by plot.py at 2017-12-06 09:08:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 187.77 Mbit/s

95th percentile per-packet one-way delay: 57.803 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 75.61 Mbit/s

95th percentile per-packet one-way delay: 56.326 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 84.41 Mbit/s

95th percentile per-packet one-way delay: 58.271 ms

Loss rate: 0.02%

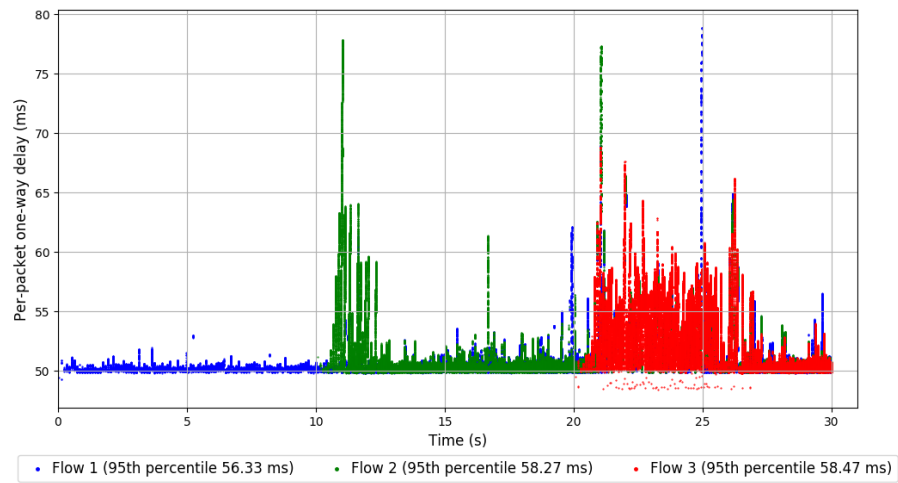
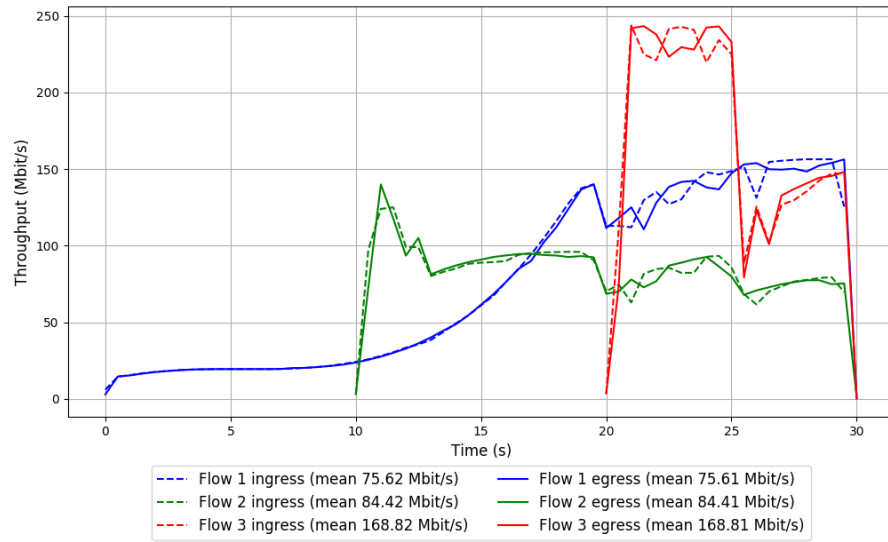
-- Flow 3:

Average throughput: 168.81 Mbit/s

95th percentile per-packet one-way delay: 58.473 ms

Loss rate: 0.00%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2017-12-06 06:58:51

End at: 2017-12-06 06:59:21

Below is generated by plot.py at 2017-12-06 09:09:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 201.80 Mbit/s

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

Loss rate: 0.01%

-- Flow 1:

Average throughput: 128.35 Mbit/s

95th percentile per-packet one-way delay: 54.167 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 108.13 Mbit/s

95th percentile per-packet one-way delay: 51.643 ms

Loss rate: 0.00%

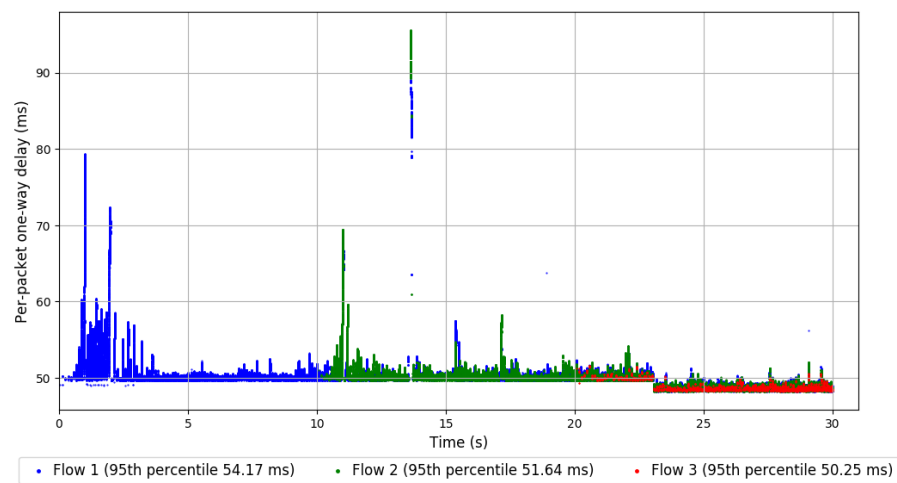
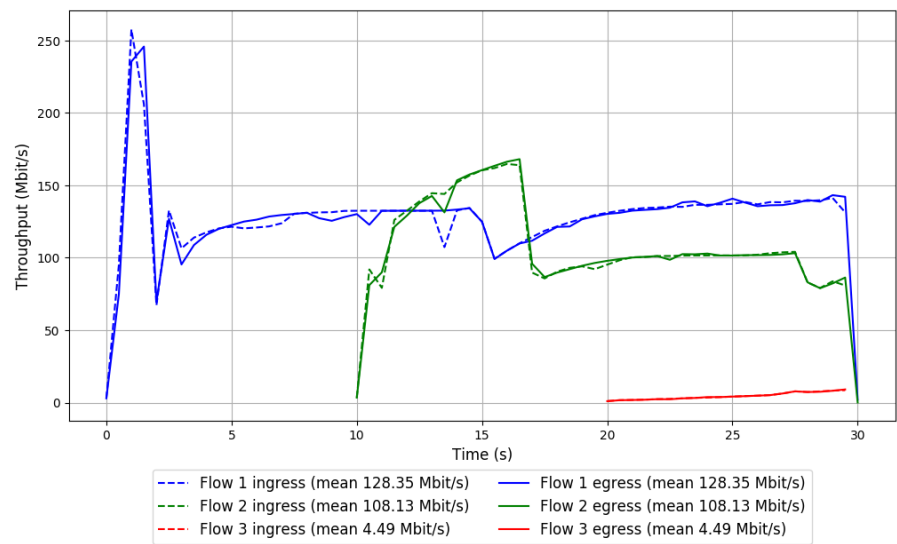
-- Flow 3:

Average throughput: 4.49 Mbit/s

95th percentile per-packet one-way delay: 50.248 ms

Loss rate: 0.13%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2017-12-06 07:10:54

End at: 2017-12-06 07:11:24

Below is generated by plot.py at 2017-12-06 09:09:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 212.35 Mbit/s

95th percentile per-packet one-way delay: 56.653 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 118.66 Mbit/s

95th percentile per-packet one-way delay: 53.980 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 137.95 Mbit/s

95th percentile per-packet one-way delay: 57.931 ms

Loss rate: 0.00%

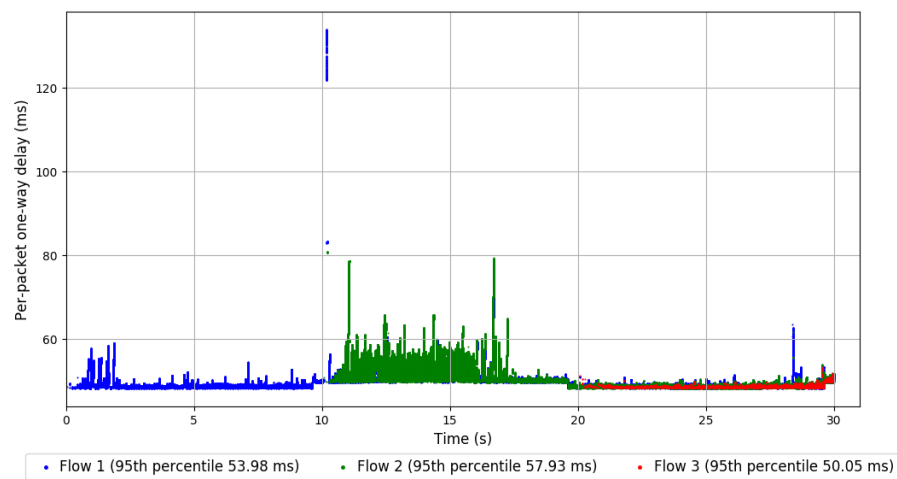
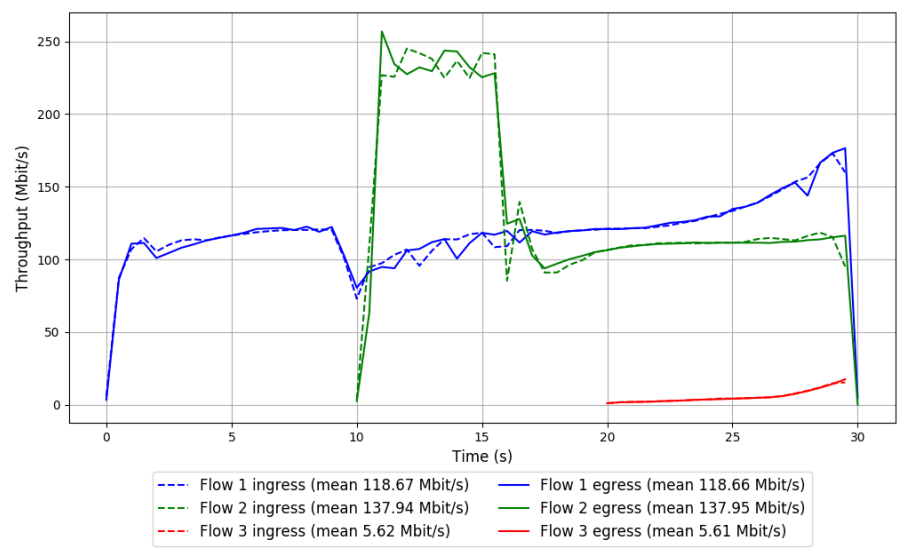
-- Flow 3:

Average throughput: 5.61 Mbit/s

95th percentile per-packet one-way delay: 50.051 ms

Loss rate: 0.04%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2017-12-06 07:23:11

End at: 2017-12-06 07:23:41

Below is generated by plot.py at 2017-12-06 09:10:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 264.10 Mbit/s

95th percentile per-packet one-way delay: 57.611 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 171.82 Mbit/s

95th percentile per-packet one-way delay: 58.483 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 136.03 Mbit/s

95th percentile per-packet one-way delay: 55.137 ms

Loss rate: 0.00%

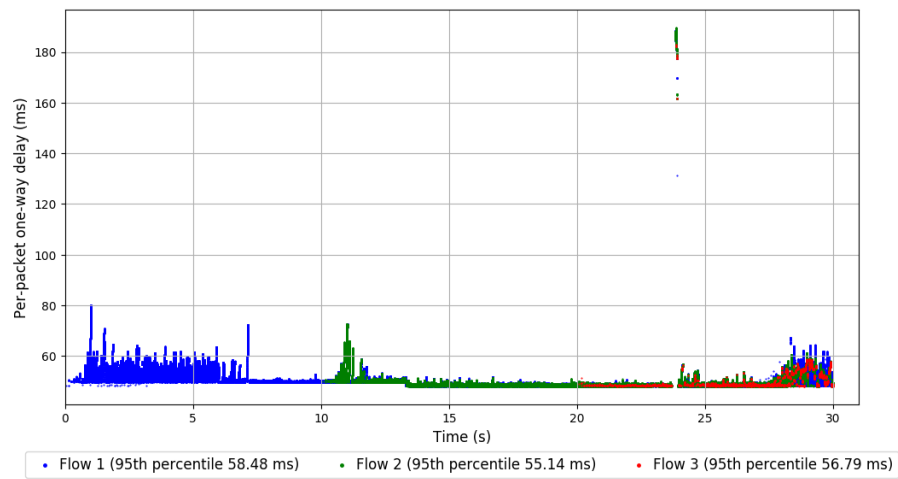
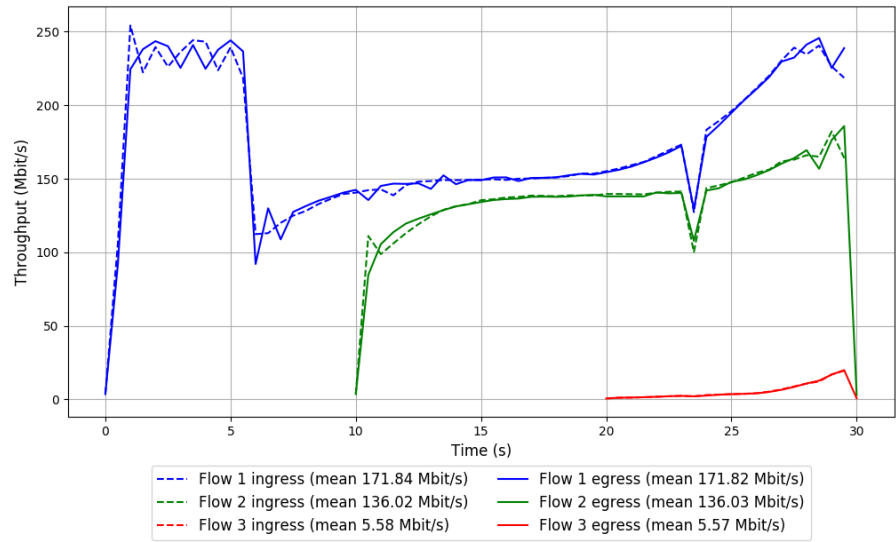
-- Flow 3:

Average throughput: 5.57 Mbit/s

95th percentile per-packet one-way delay: 56.792 ms

Loss rate: 0.11%

Run 10: Report of TCP Cubic — Data Link

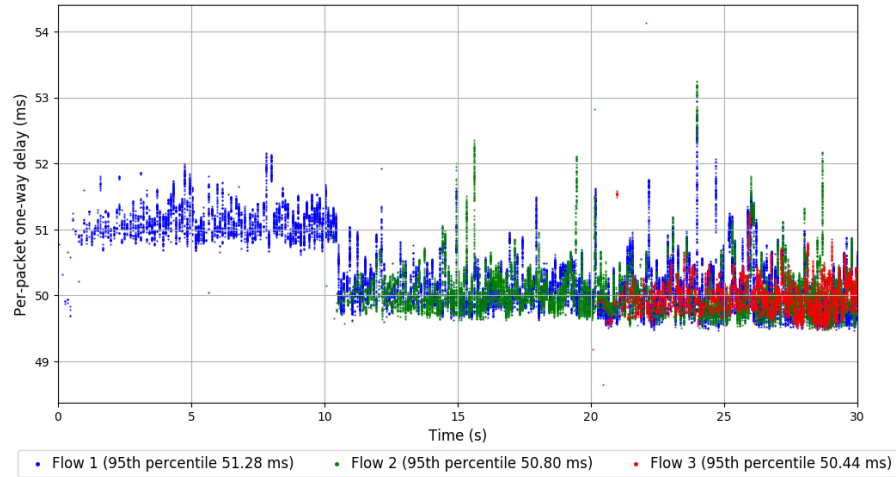
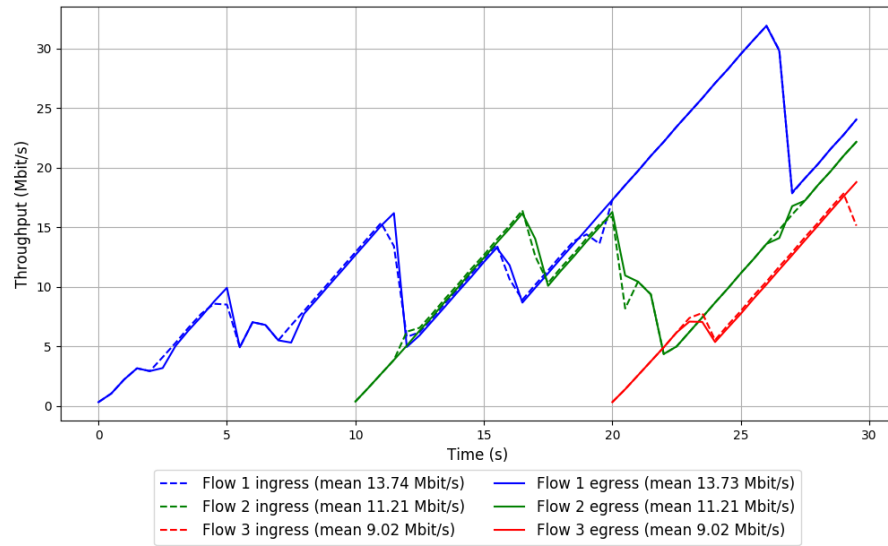


```
Run 1: Statistics of LEDBAT

Start at: 2017-12-06 05:38:04
End at: 2017-12-06 05:38:34

# Below is generated by plot.py at 2017-12-06 09:10:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 24.17 Mbit/s
95th percentile per-packet one-way delay: 51.190 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 13.73 Mbit/s
95th percentile per-packet one-way delay: 51.285 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 11.21 Mbit/s
95th percentile per-packet one-way delay: 50.798 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 9.02 Mbit/s
95th percentile per-packet one-way delay: 50.441 ms
Loss rate: 0.00%
```


Run 1: Report of LEDBAT — Data Link

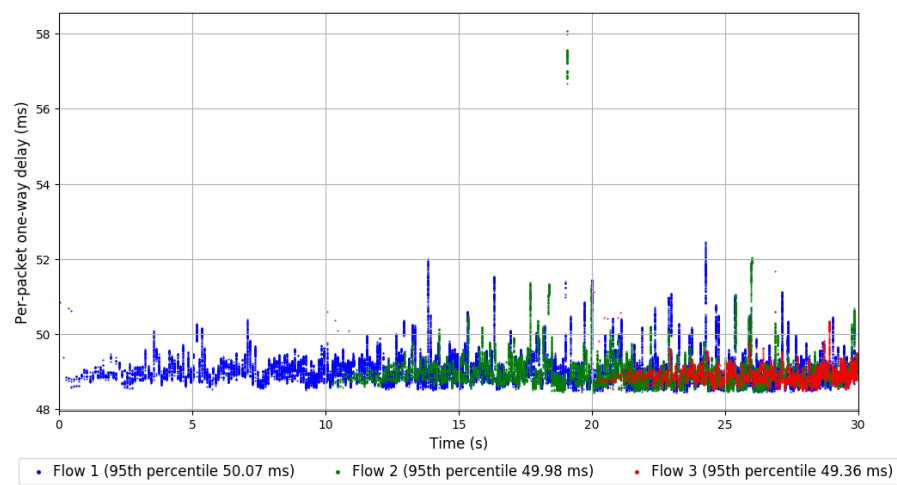
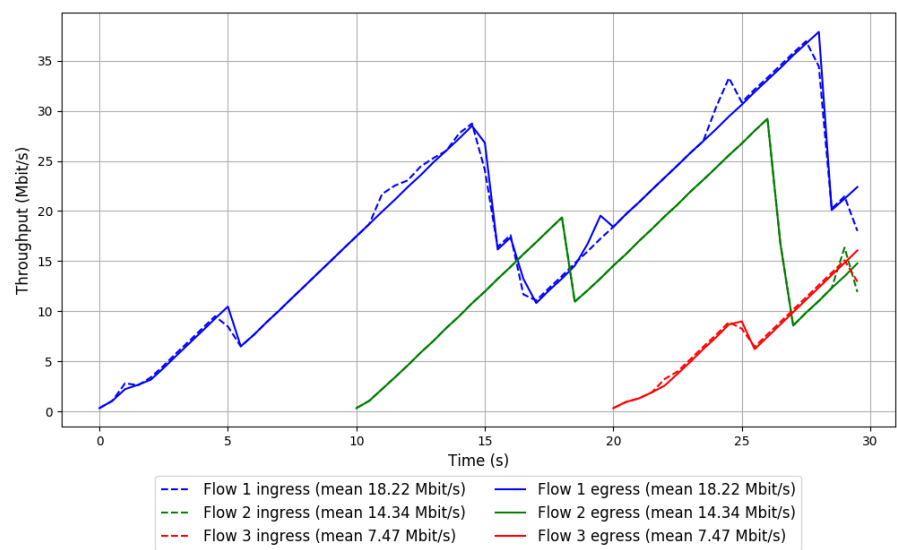


```
Run 2: Statistics of LEDBAT

Start at: 2017-12-06 05:50:15
End at: 2017-12-06 05:50:45

# Below is generated by plot.py at 2017-12-06 09:10:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 30.22 Mbit/s
95th percentile per-packet one-way delay: 50.005 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 18.22 Mbit/s
95th percentile per-packet one-way delay: 50.066 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 14.34 Mbit/s
95th percentile per-packet one-way delay: 49.981 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 7.47 Mbit/s
95th percentile per-packet one-way delay: 49.362 ms
Loss rate: 0.00%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2017-12-06 06:02:29

End at: 2017-12-06 06:02:59

Below is generated by plot.py at 2017-12-06 09:10:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 31.18 Mbit/s

95th percentile per-packet one-way delay: 49.869 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 11.41 Mbit/s

95th percentile per-packet one-way delay: 49.845 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 23.73 Mbit/s

95th percentile per-packet one-way delay: 49.799 ms

Loss rate: 0.00%

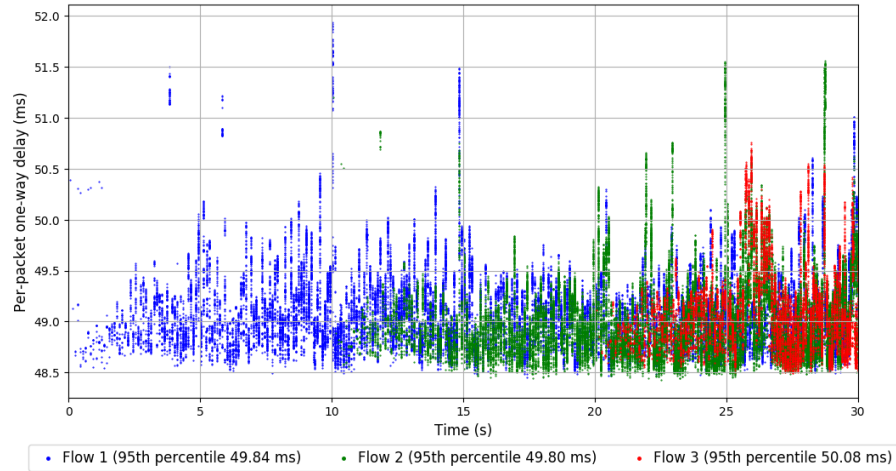
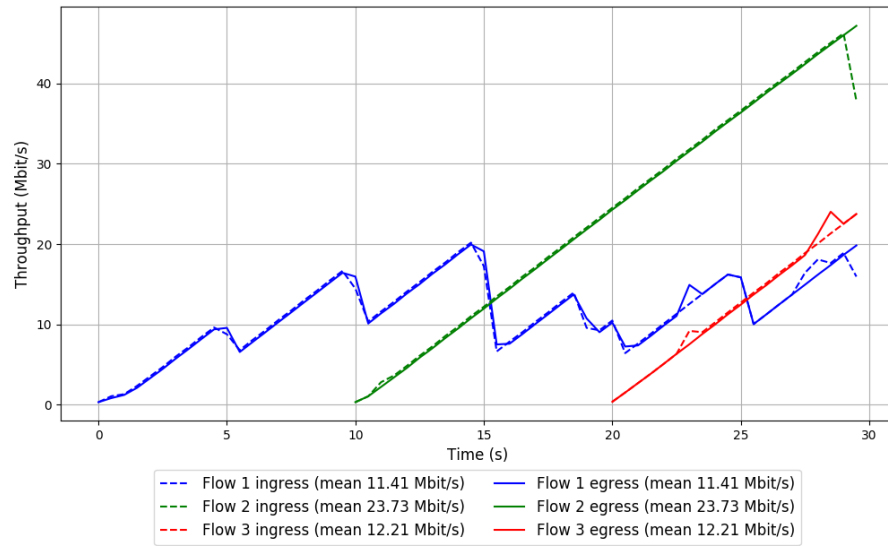
-- Flow 3:

Average throughput: 12.21 Mbit/s

95th percentile per-packet one-way delay: 50.084 ms

Loss rate: 0.00%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2017-12-06 06:14:48

End at: 2017-12-06 06:15:18

Below is generated by plot.py at 2017-12-06 09:10:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 27.72 Mbit/s

95th percentile per-packet one-way delay: 50.590 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 11.04 Mbit/s

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

Loss rate: 0.09%

-- Flow 2:

Average throughput: 20.38 Mbit/s

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

Loss rate: 0.08%

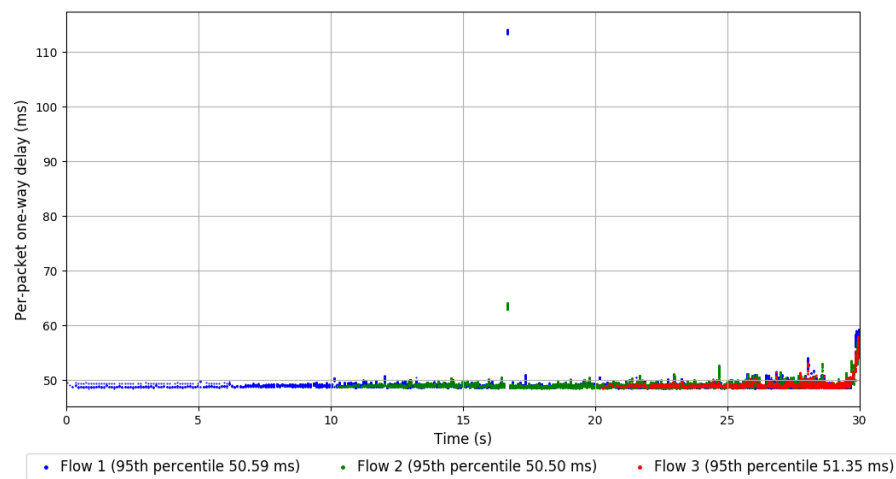
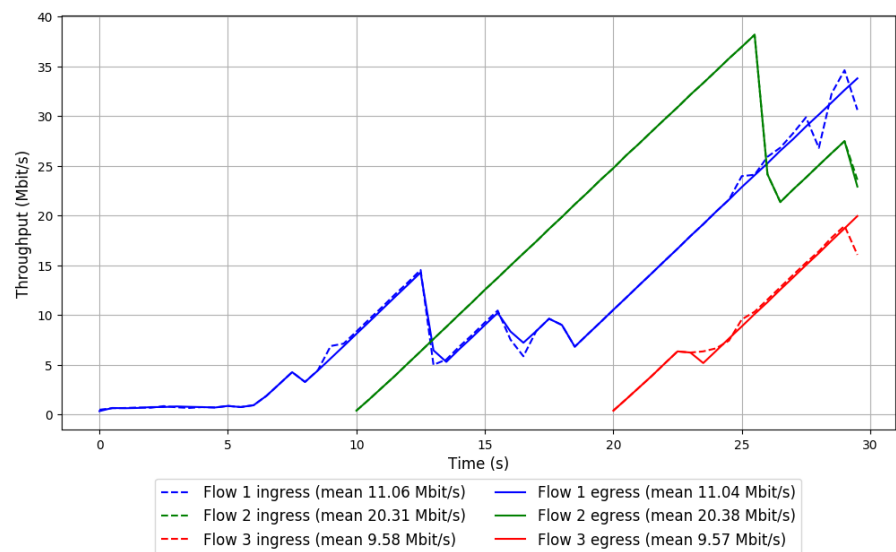
-- Flow 3:

Average throughput: 9.57 Mbit/s

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

Loss rate: 0.00%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2017-12-06 06:27:01

End at: 2017-12-06 06:27:31

Below is generated by plot.py at 2017-12-06 09:10:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 30.31 Mbit/s

95th percentile per-packet one-way delay: 49.869 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 12.32 Mbit/s

95th percentile per-packet one-way delay: 49.783 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 24.26 Mbit/s

95th percentile per-packet one-way delay: 49.978 ms

Loss rate: 0.00%

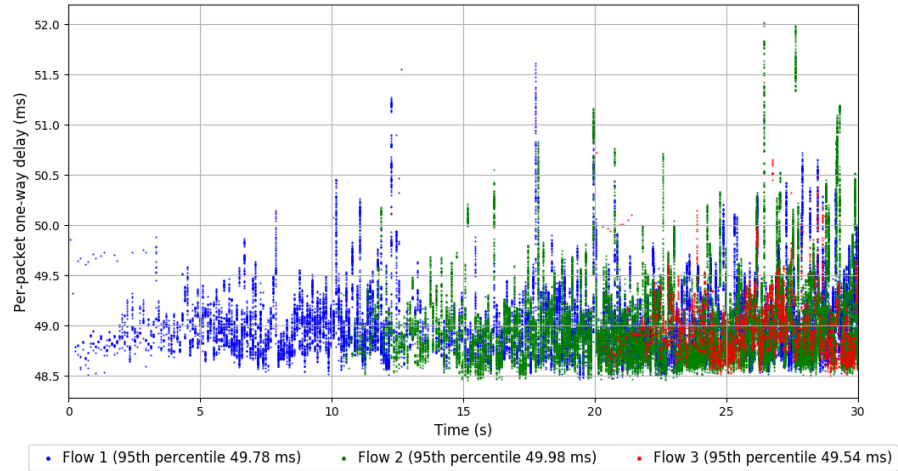
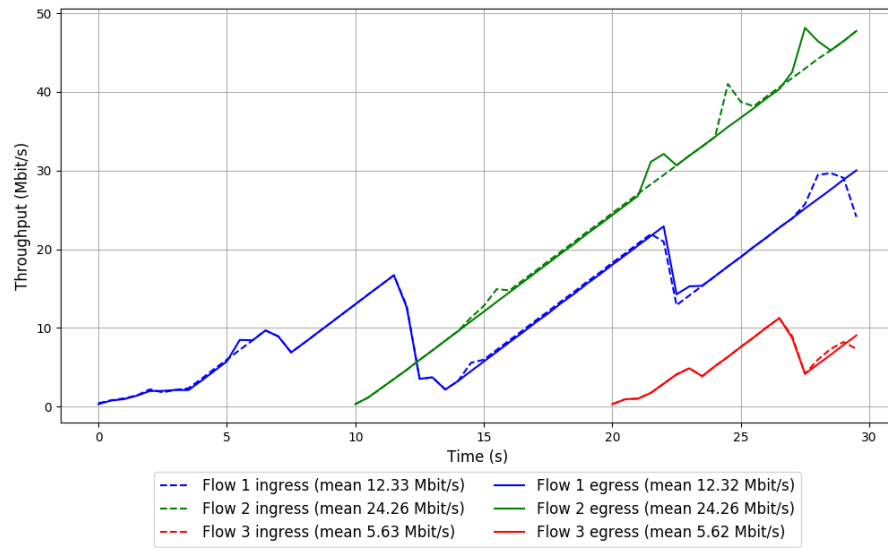
-- Flow 3:

Average throughput: 5.62 Mbit/s

95th percentile per-packet one-way delay: 49.538 ms

Loss rate: 0.21%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2017-12-06 06:39:18

End at: 2017-12-06 06:39:48

Below is generated by plot.py at 2017-12-06 09:10:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 29.83 Mbit/s

95th percentile per-packet one-way delay: 49.997 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 21.11 Mbit/s

95th percentile per-packet one-way delay: 50.175 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 7.63 Mbit/s

95th percentile per-packet one-way delay: 49.599 ms

Loss rate: 0.09%

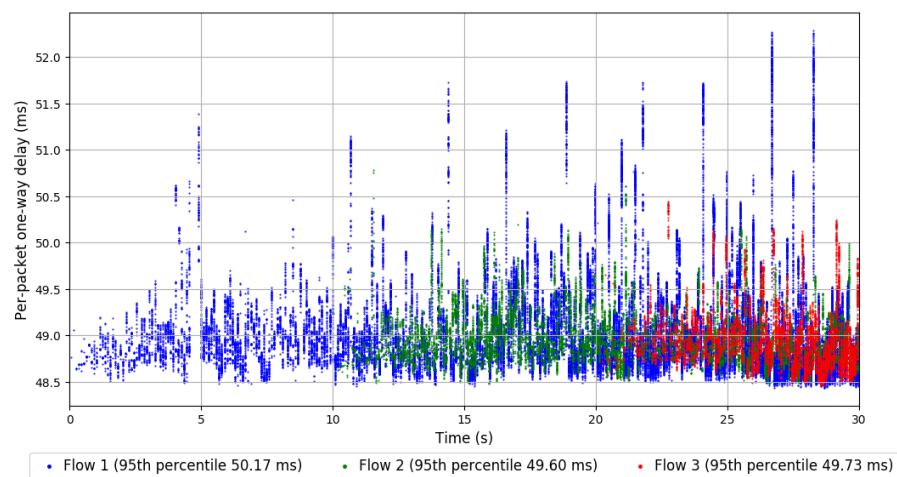
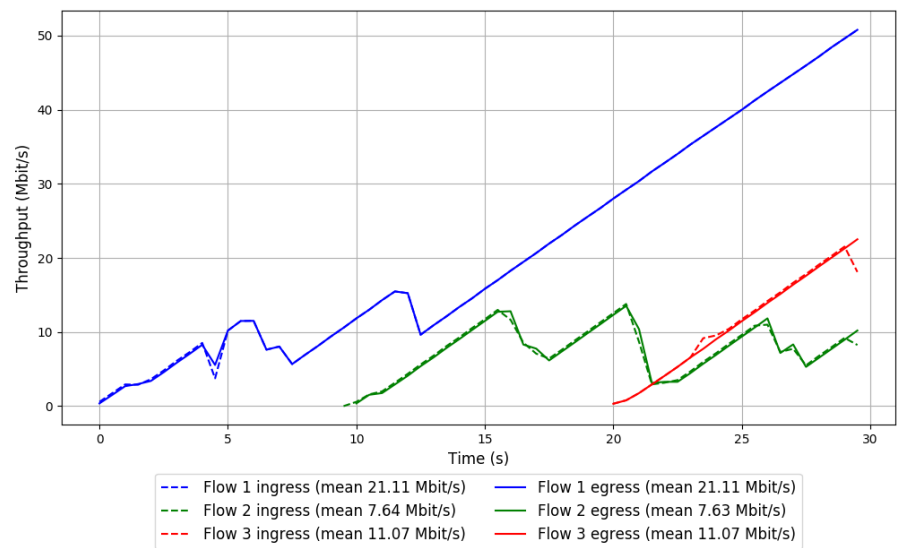
-- Flow 3:

Average throughput: 11.07 Mbit/s

95th percentile per-packet one-way delay: 49.729 ms

Loss rate: 0.00%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2017-12-06 06:51:29

End at: 2017-12-06 06:51:59

Below is generated by plot.py at 2017-12-06 09:10:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 17.11 Mbit/s

95th percentile per-packet one-way delay: 49.869 ms

Loss rate: 0.14%

-- Flow 1:

Average throughput: 11.30 Mbit/s

95th percentile per-packet one-way delay: 49.861 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 2.78 Mbit/s

95th percentile per-packet one-way delay: 49.547 ms

Loss rate: 1.23%

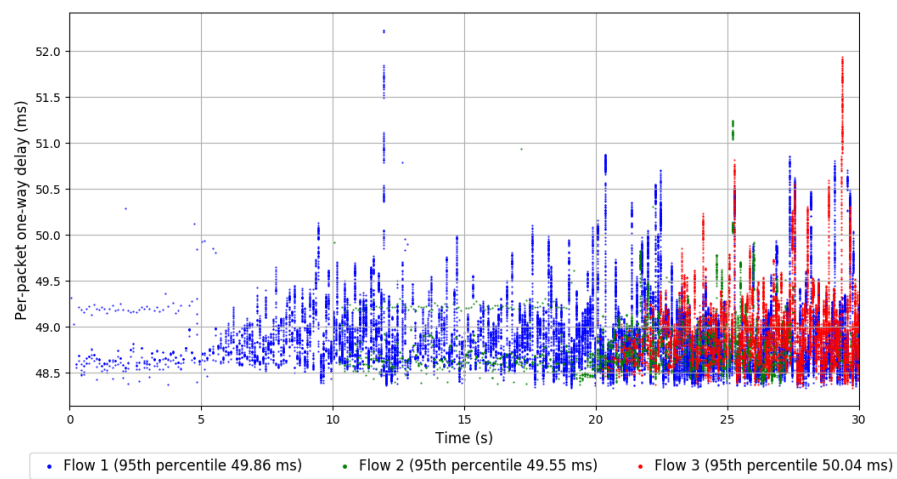
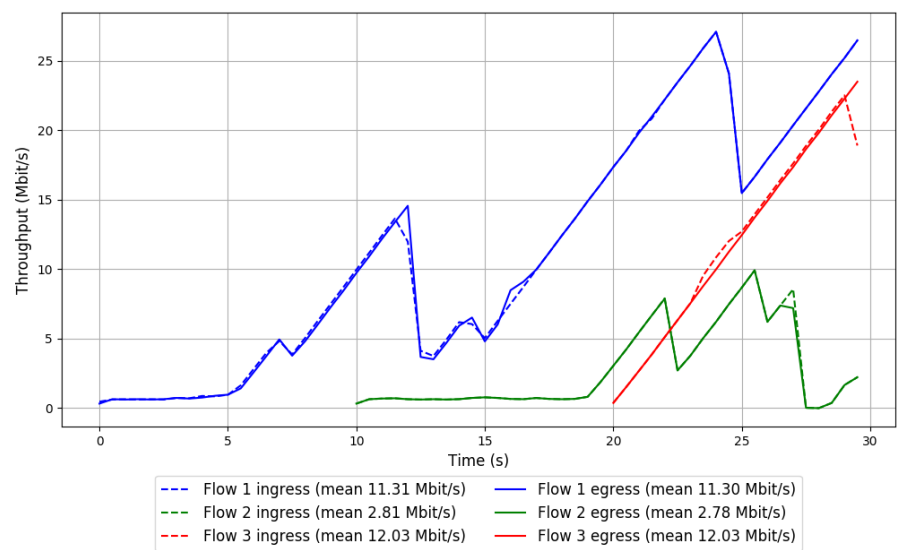
-- Flow 3:

Average throughput: 12.03 Mbit/s

95th percentile per-packet one-way delay: 50.037 ms

Loss rate: 0.00%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2017-12-06 07:03:40

End at: 2017-12-06 07:04:10

Below is generated by plot.py at 2017-12-06 09:10:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 24.12 Mbit/s

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

Loss rate: 0.03%

-- Flow 1:

Average throughput: 12.34 Mbit/s

95th percentile per-packet one-way delay: 50.155 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 12.45 Mbit/s

95th percentile per-packet one-way delay: 50.837 ms

Loss rate: 0.03%

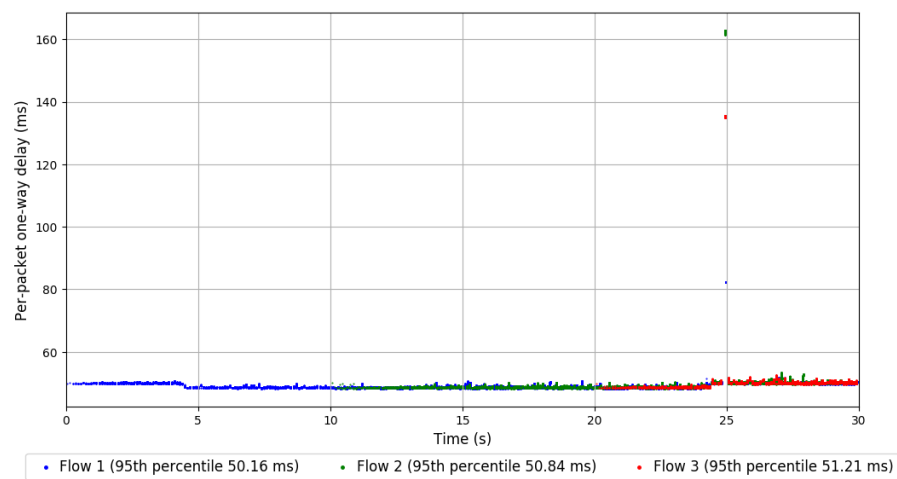
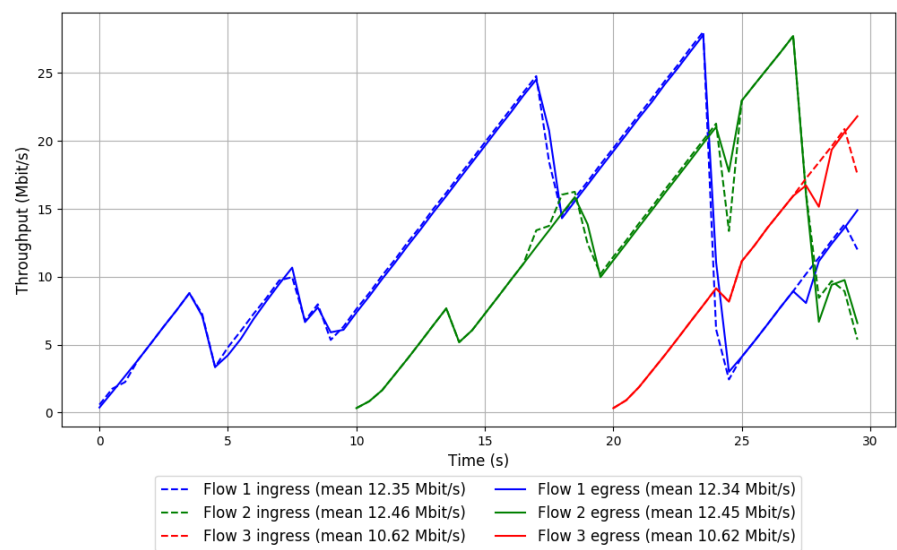
-- Flow 3:

Average throughput: 10.62 Mbit/s

95th percentile per-packet one-way delay: 51.213 ms

Loss rate: 0.00%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2017-12-06 07:15:46

End at: 2017-12-06 07:16:16

Below is generated by plot.py at 2017-12-06 09:10:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 20.49 Mbit/s

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

Loss rate: 0.08%

-- Flow 1:

Average throughput: 10.61 Mbit/s

95th percentile per-packet one-way delay: 50.779 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 11.77 Mbit/s

95th percentile per-packet one-way delay: 50.666 ms

Loss rate: 0.01%

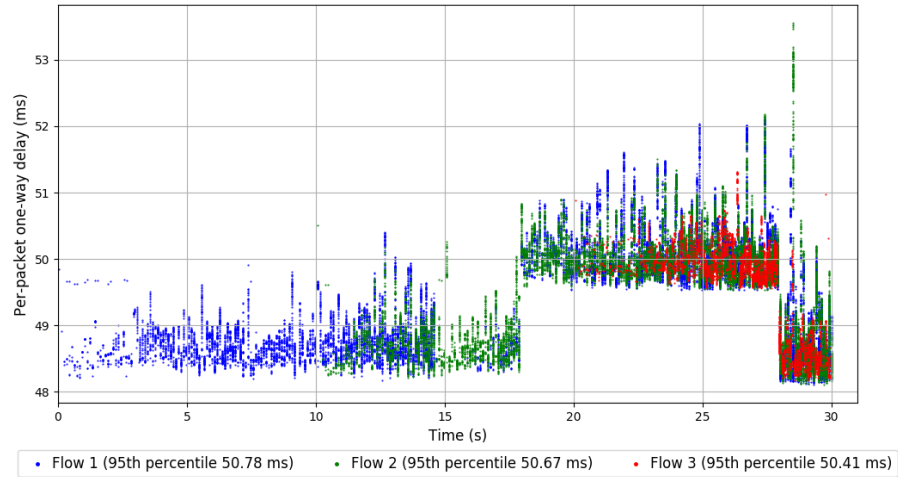
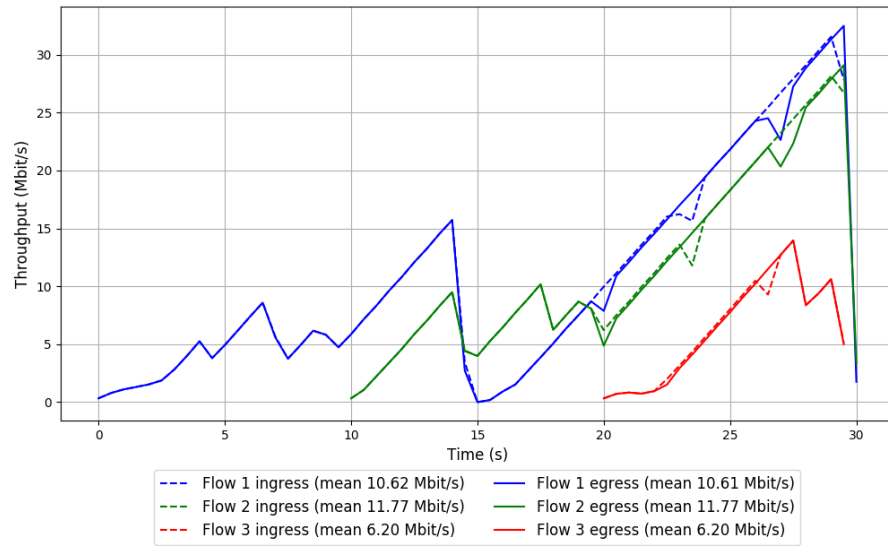
-- Flow 3:

Average throughput: 6.20 Mbit/s

95th percentile per-packet one-way delay: 50.405 ms

Loss rate: 0.08%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2017-12-06 07:27:57

End at: 2017-12-06 07:28:27

Below is generated by plot.py at 2017-12-06 09:10:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 24.35 Mbit/s

95th percentile per-packet one-way delay: 50.676 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 14.03 Mbit/s

95th percentile per-packet one-way delay: 50.733 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 9.75 Mbit/s

95th percentile per-packet one-way delay: 50.437 ms

Loss rate: 0.02%

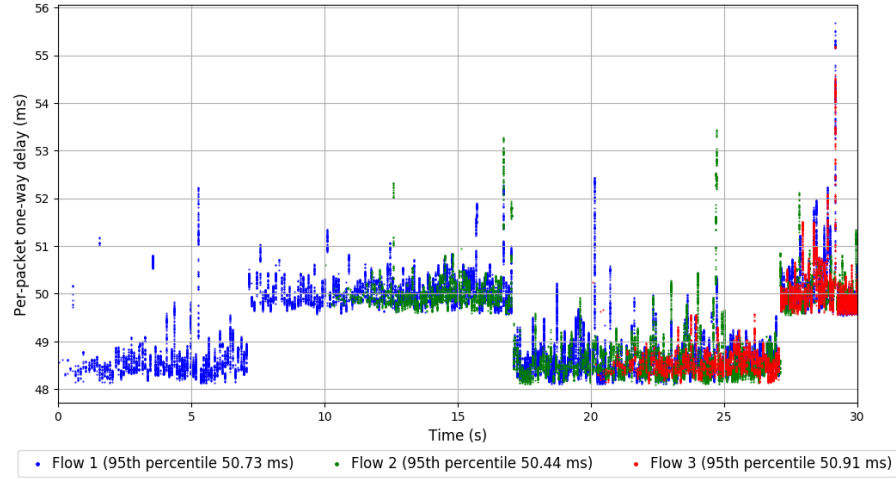
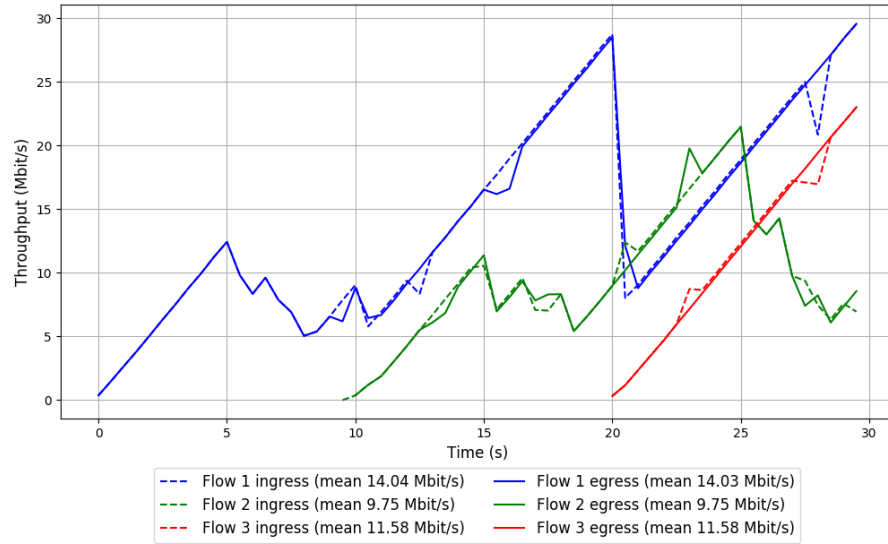
-- Flow 3:

Average throughput: 11.58 Mbit/s

95th percentile per-packet one-way delay: 50.909 ms

Loss rate: 0.00%

Run 10: Report of LEDBAT — Data Link

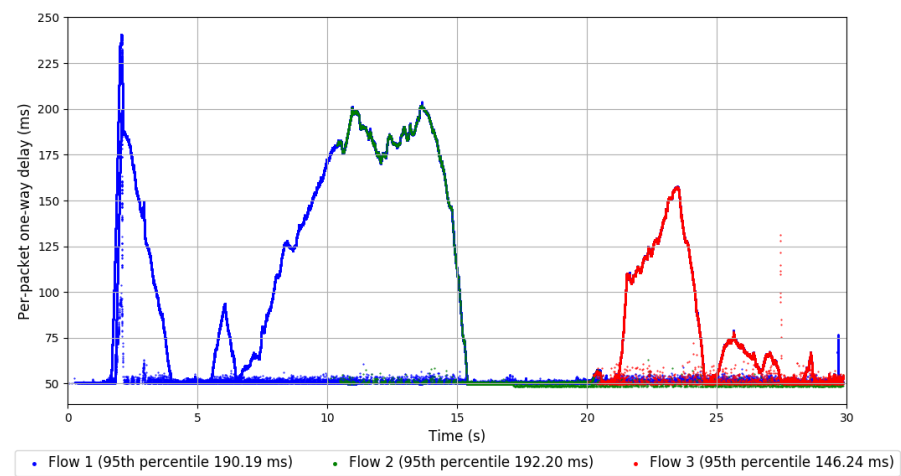
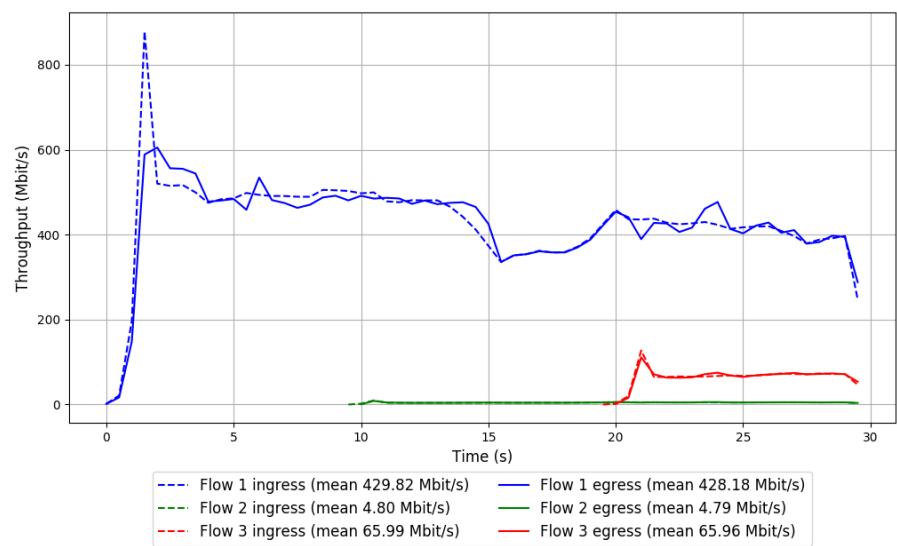


```
Run 1: Statistics of PCC

Start at: 2017-12-06 05:37:07
End at: 2017-12-06 05:37:37

# Below is generated by plot.py at 2017-12-06 09:15:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 453.10 Mbit/s
95th percentile per-packet one-way delay: 189.931 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 428.18 Mbit/s
95th percentile per-packet one-way delay: 190.192 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 4.79 Mbit/s
95th percentile per-packet one-way delay: 192.204 ms
Loss rate: 0.11%
-- Flow 3:
Average throughput: 65.96 Mbit/s
95th percentile per-packet one-way delay: 146.235 ms
Loss rate: 0.02%
```

Run 1: Report of PCC — Data Link

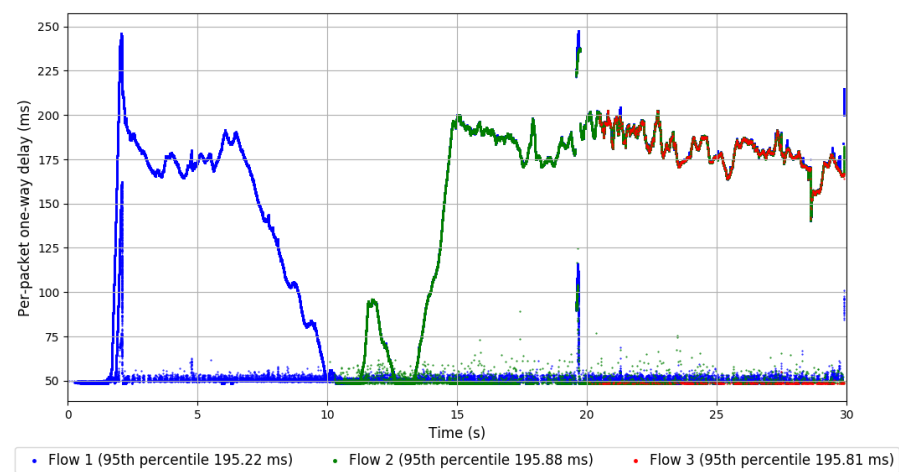
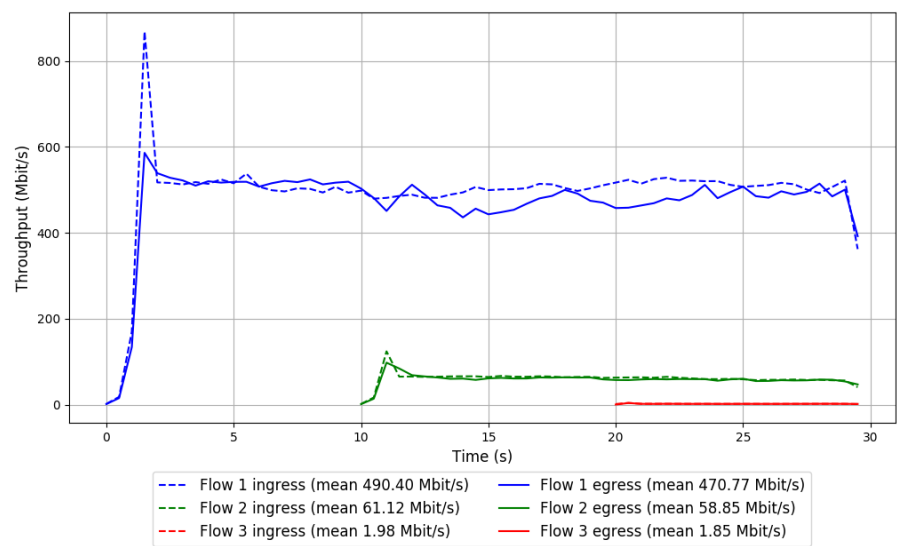


```
Run 2: Statistics of PCC

Start at: 2017-12-06 05:49:15
End at: 2017-12-06 05:49:45

# Below is generated by plot.py at 2017-12-06 09:16:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 510.46 Mbit/s
95th percentile per-packet one-way delay: 195.272 ms
Loss rate: 3.99%
-- Flow 1:
Average throughput: 470.77 Mbit/s
95th percentile per-packet one-way delay: 195.216 ms
Loss rate: 4.01%
-- Flow 2:
Average throughput: 58.85 Mbit/s
95th percentile per-packet one-way delay: 195.880 ms
Loss rate: 3.77%
-- Flow 3:
Average throughput: 1.85 Mbit/s
95th percentile per-packet one-way delay: 195.806 ms
Loss rate: 6.54%
```

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2017-12-06 06:01:32

End at: 2017-12-06 06:02:02

Below is generated by plot.py at 2017-12-06 09:16:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 419.56 Mbit/s

95th percentile per-packet one-way delay: 149.253 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 404.78 Mbit/s

95th percentile per-packet one-way delay: 149.272 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 20.13 Mbit/s

95th percentile per-packet one-way delay: 142.773 ms

Loss rate: 0.00%

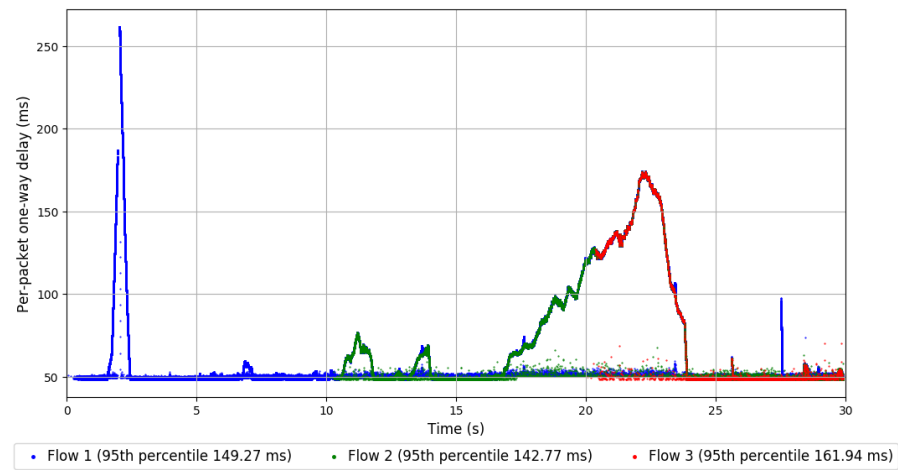
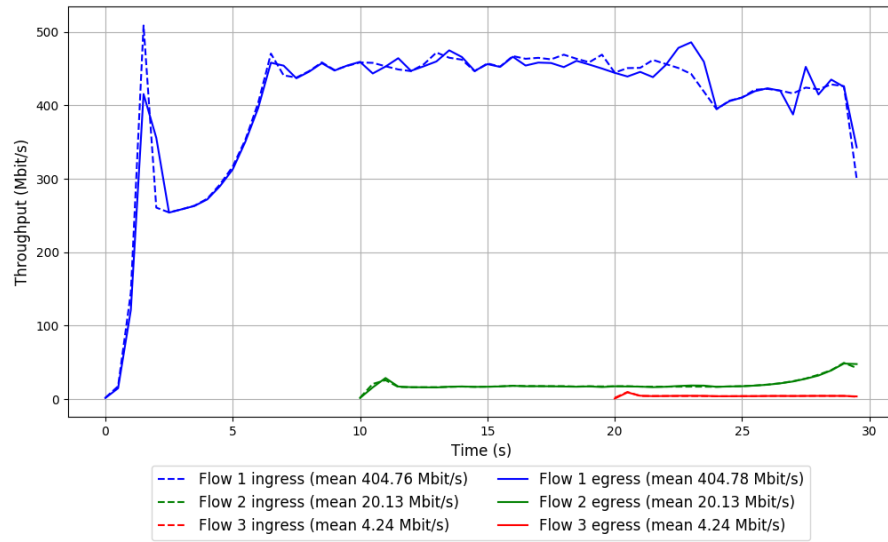
-- Flow 3:

Average throughput: 4.24 Mbit/s

95th percentile per-packet one-way delay: 161.941 ms

Loss rate: 0.00%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

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

End at: 2017-12-06 06:14:19

Below is generated by plot.py at 2017-12-06 09:16:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 488.05 Mbit/s

95th percentile per-packet one-way delay: 189.827 ms

Loss rate: 2.74%

-- Flow 1:

Average throughput: 465.85 Mbit/s

95th percentile per-packet one-way delay: 189.686 ms

Loss rate: 2.63%

-- Flow 2:

Average throughput: 5.11 Mbit/s

95th percentile per-packet one-way delay: 189.687 ms

Loss rate: 3.12%

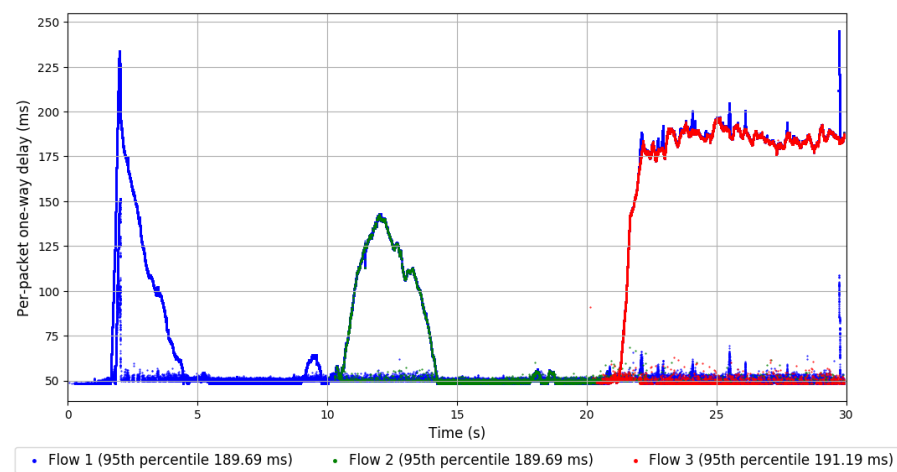
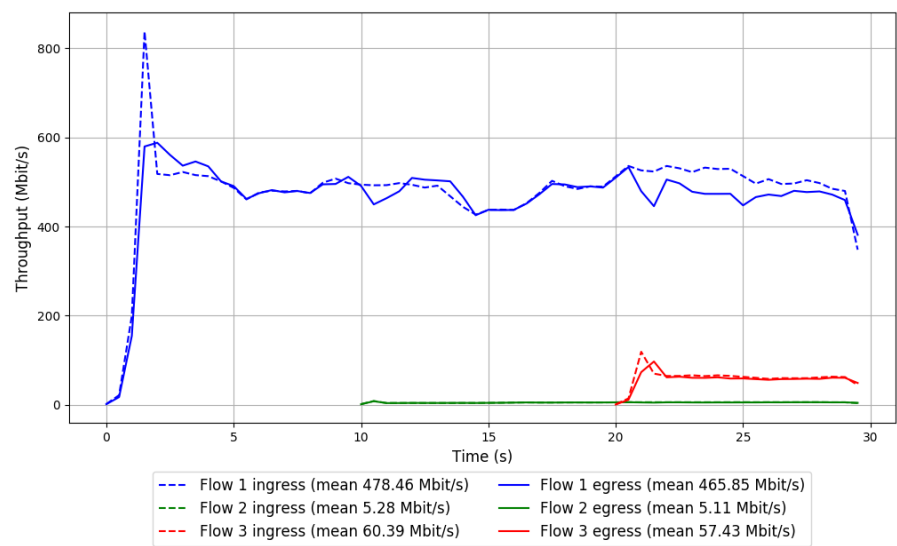
-- Flow 3:

Average throughput: 57.43 Mbit/s

95th percentile per-packet one-way delay: 191.185 ms

Loss rate: 5.29%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2017-12-06 06:26:02

End at: 2017-12-06 06:26:32

Below is generated by plot.py at 2017-12-06 09:16:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 484.25 Mbit/s

95th percentile per-packet one-way delay: 119.213 ms

Loss rate: 0.20%

-- Flow 1:

Average throughput: 462.42 Mbit/s

95th percentile per-packet one-way delay: 120.836 ms

Loss rate: 0.20%

-- Flow 2:

Average throughput: 17.55 Mbit/s

95th percentile per-packet one-way delay: 102.934 ms

Loss rate: 0.00%

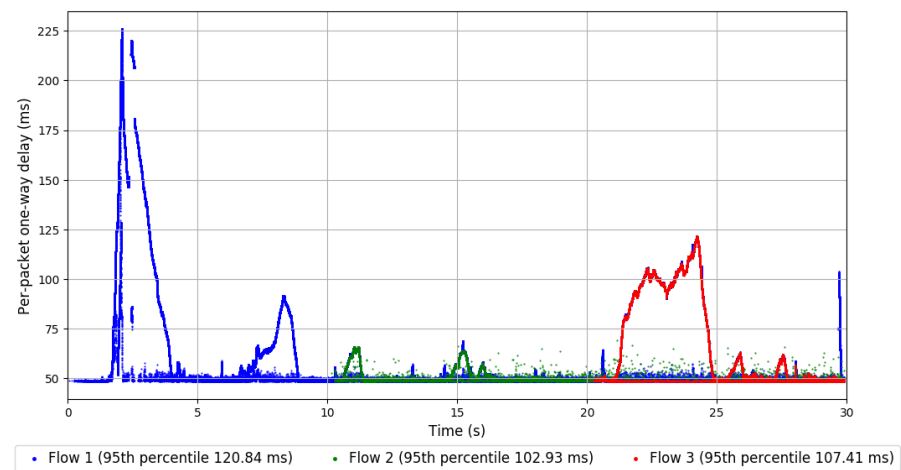
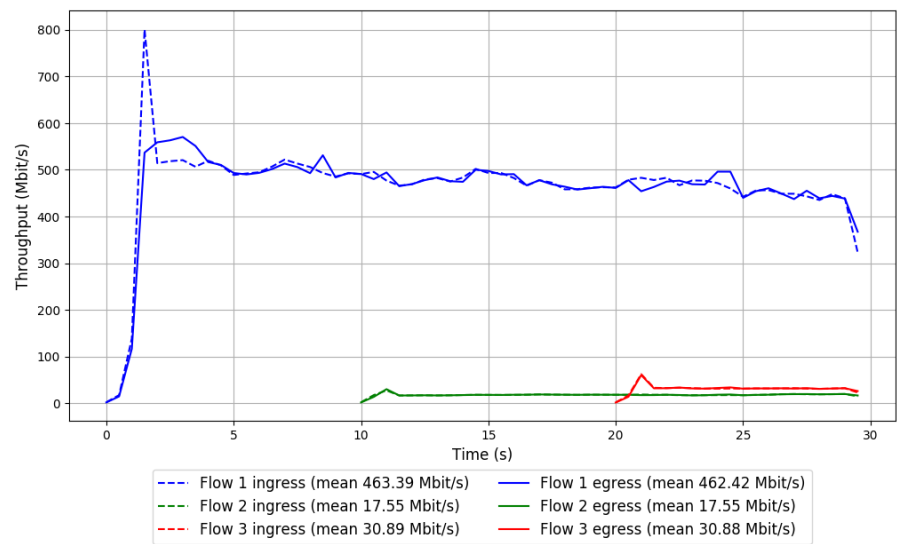
-- Flow 3:

Average throughput: 30.88 Mbit/s

95th percentile per-packet one-way delay: 107.406 ms

Loss rate: 0.00%

Run 5: Report of PCC — Data Link

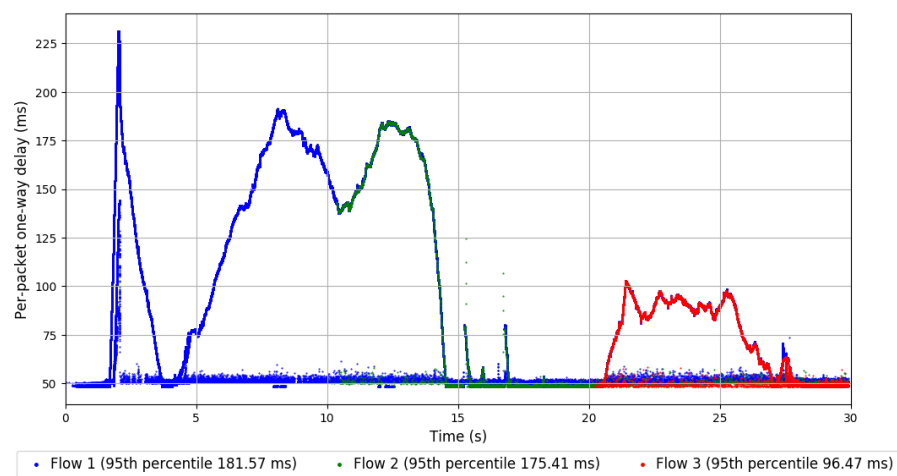
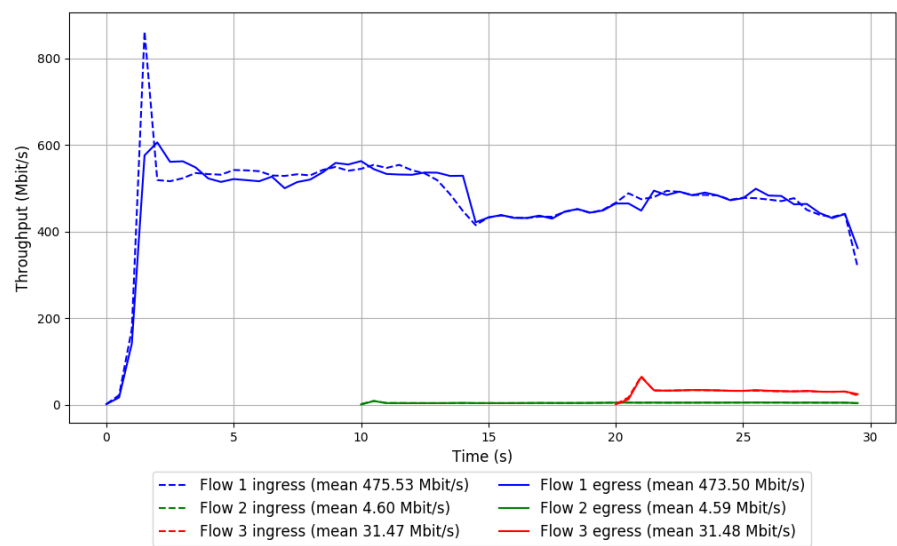


```
Run 6: Statistics of PCC

Start at: 2017-12-06 06:38:19
End at: 2017-12-06 06:38:49

# Below is generated by plot.py at 2017-12-06 09:17:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 486.93 Mbit/s
95th percentile per-packet one-way delay: 181.431 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 473.50 Mbit/s
95th percentile per-packet one-way delay: 181.568 ms
Loss rate: 0.43%
-- Flow 2:
Average throughput: 4.59 Mbit/s
95th percentile per-packet one-way delay: 175.407 ms
Loss rate: 0.11%
-- Flow 3:
Average throughput: 31.48 Mbit/s
95th percentile per-packet one-way delay: 96.468 ms
Loss rate: 0.00%
```

Run 6: Report of PCC — Data Link

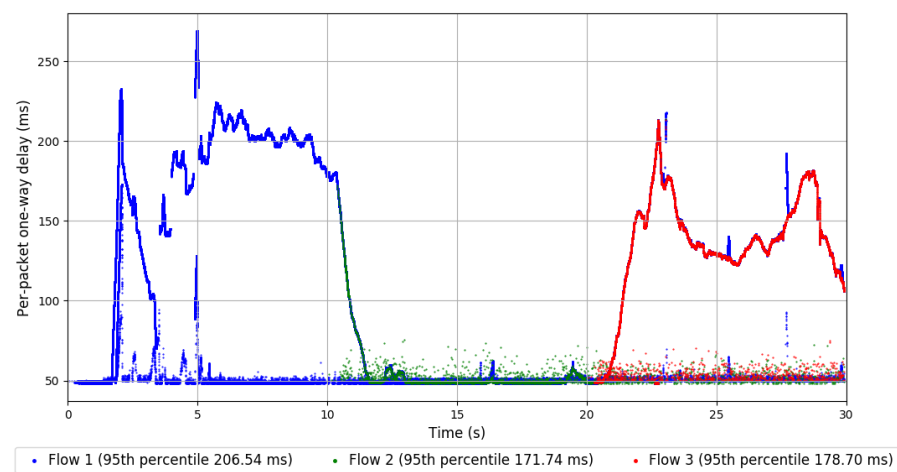
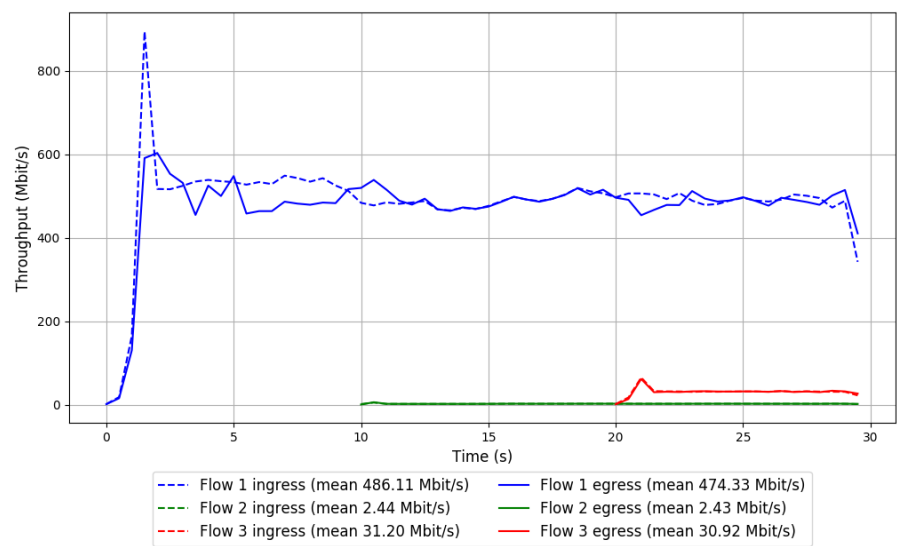


```
Run 7: Statistics of PCC

Start at: 2017-12-06 06:50:31
End at: 2017-12-06 06:51:01

# Below is generated by plot.py at 2017-12-06 09:18:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 486.13 Mbit/s
95th percentile per-packet one-way delay: 206.201 ms
Loss rate: 2.38%
-- Flow 1:
Average throughput: 474.33 Mbit/s
95th percentile per-packet one-way delay: 206.544 ms
Loss rate: 2.42%
-- Flow 2:
Average throughput: 2.43 Mbit/s
95th percentile per-packet one-way delay: 171.742 ms
Loss rate: 0.40%
-- Flow 3:
Average throughput: 30.92 Mbit/s
95th percentile per-packet one-way delay: 178.703 ms
Loss rate: 0.88%
```


Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2017-12-06 07:02:44

End at: 2017-12-06 07:03:14

Below is generated by plot.py at 2017-12-06 09:18:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 406.67 Mbit/s

95th percentile per-packet one-way delay: 161.323 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 394.20 Mbit/s

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

Loss rate: 0.05%

-- Flow 2:

Average throughput: 16.17 Mbit/s

95th percentile per-packet one-way delay: 161.710 ms

Loss rate: 0.02%

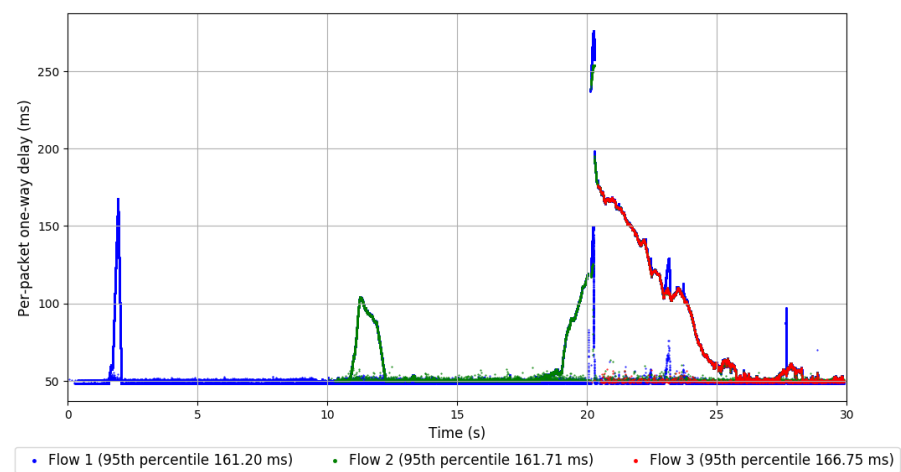
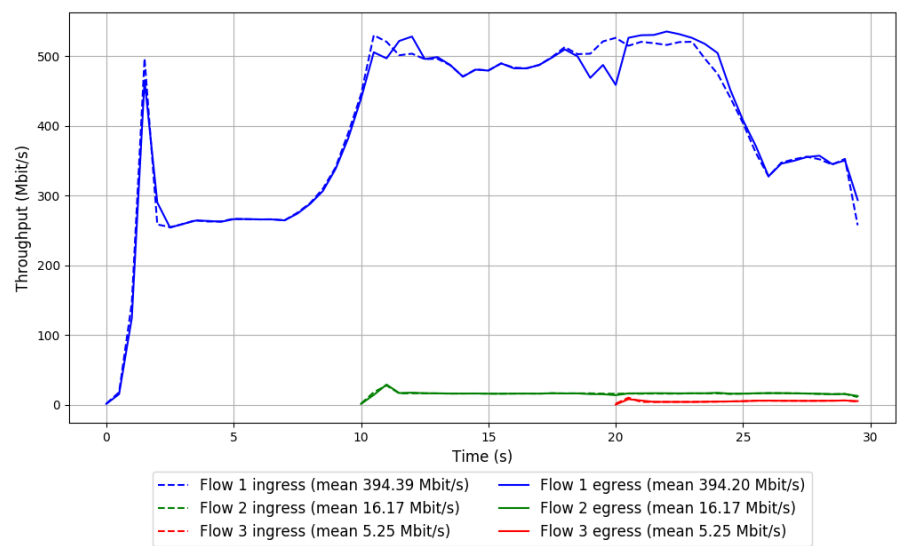
-- Flow 3:

Average throughput: 5.25 Mbit/s

95th percentile per-packet one-way delay: 166.753 ms

Loss rate: 0.00%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2017-12-06 07:14:47

End at: 2017-12-06 07:15:17

Below is generated by plot.py at 2017-12-06 09:23:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 489.49 Mbit/s

95th percentile per-packet one-way delay: 197.537 ms

Loss rate: 1.90%

-- Flow 1:

Average throughput: 450.36 Mbit/s

95th percentile per-packet one-way delay: 197.334 ms

Loss rate: 1.90%

-- Flow 2:

Average throughput: 57.90 Mbit/s

95th percentile per-packet one-way delay: 199.287 ms

Loss rate: 1.93%

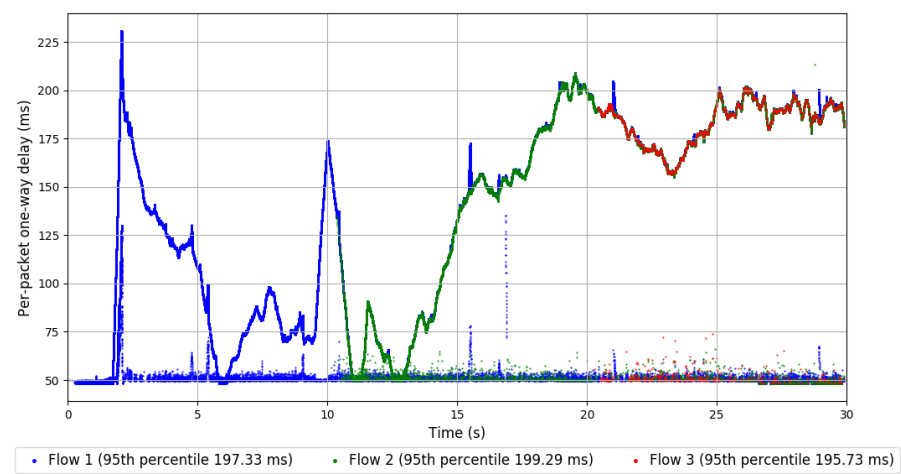
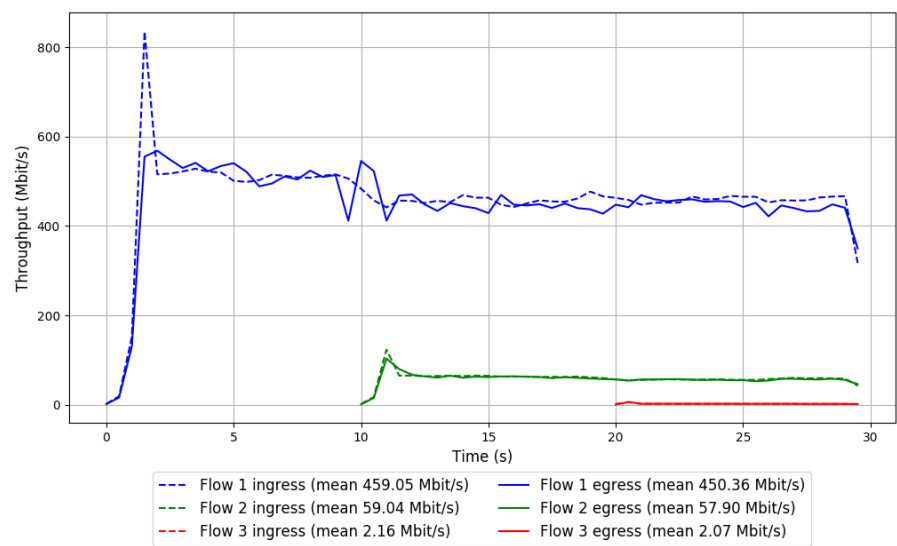
-- Flow 3:

Average throughput: 2.07 Mbit/s

95th percentile per-packet one-way delay: 195.727 ms

Loss rate: 4.12%

Run 9: Report of PCC — Data Link

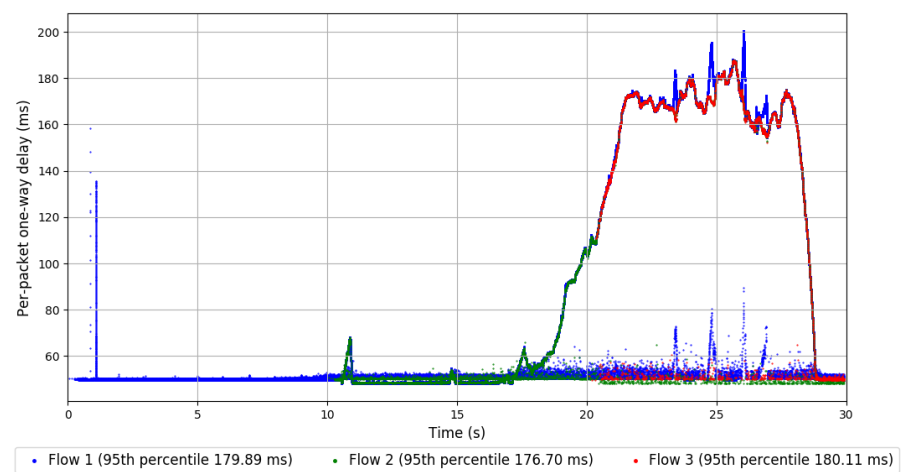
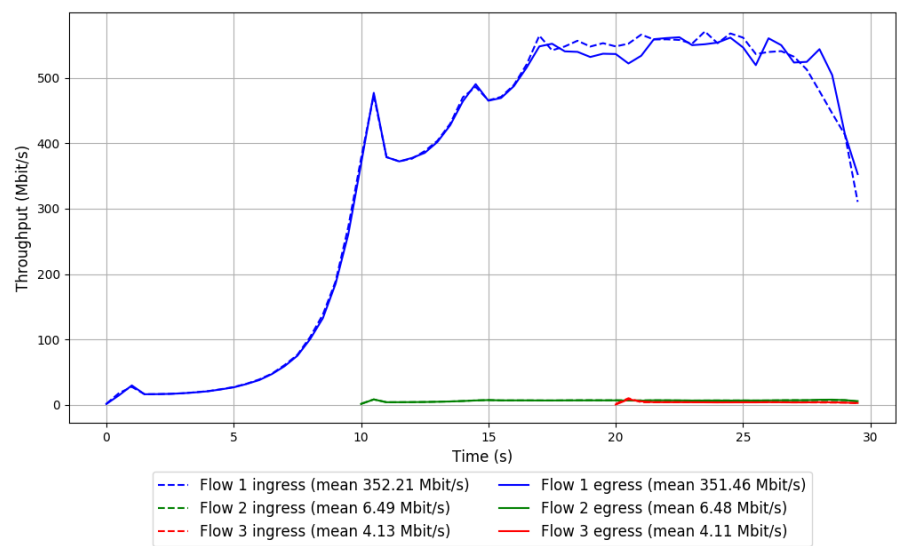


```
Run 10: Statistics of PCC

Start at: 2017-12-06 07:27:03
End at: 2017-12-06 07:27:33

# Below is generated by plot.py at 2017-12-06 09:23:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 357.12 Mbit/s
95th percentile per-packet one-way delay: 179.859 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 351.46 Mbit/s
95th percentile per-packet one-way delay: 179.889 ms
Loss rate: 0.21%
-- Flow 2:
Average throughput: 6.48 Mbit/s
95th percentile per-packet one-way delay: 176.701 ms
Loss rate: 0.16%
-- Flow 3:
Average throughput: 4.11 Mbit/s
95th percentile per-packet one-way delay: 180.113 ms
Loss rate: 0.39%
```

Run 10: Report of PCC — Data Link

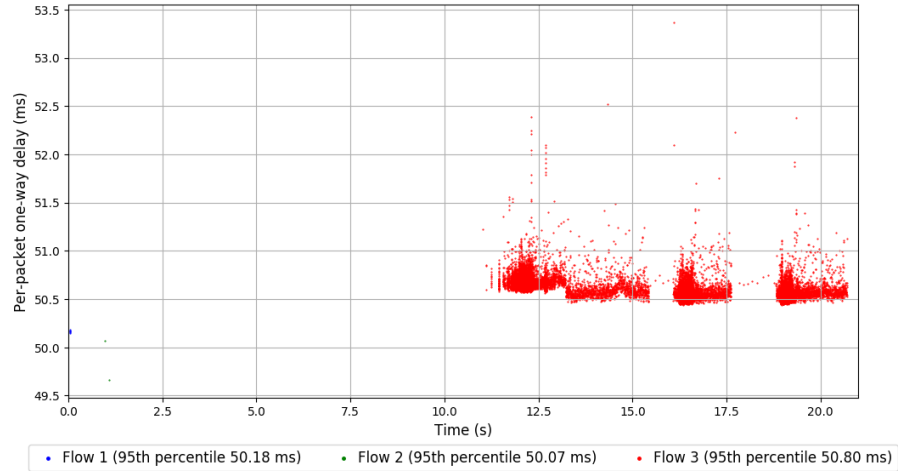
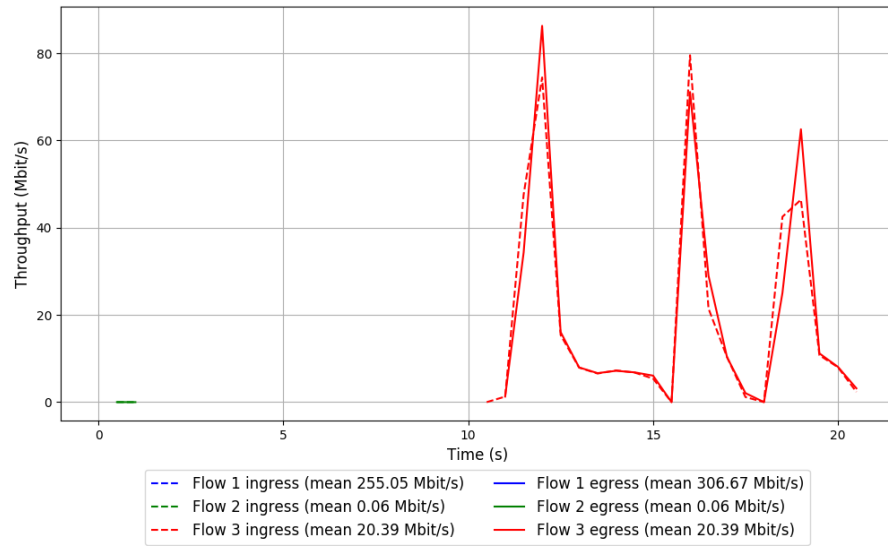


Run 1: Statistics of QUIC Cubic

Start at: 2017-12-06 05:44:41

End at: 2017-12-06 05:45:11

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2017-12-06 05:56:49

End at: 2017-12-06 05:57:19

Below is generated by plot.py at 2017-12-06 09:23:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 76.79 Mbit/s

95th percentile per-packet one-way delay: 50.545 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 51.57 Mbit/s

95th percentile per-packet one-way delay: 49.403 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 15.50 Mbit/s

95th percentile per-packet one-way delay: 49.386 ms

Loss rate: 0.00%

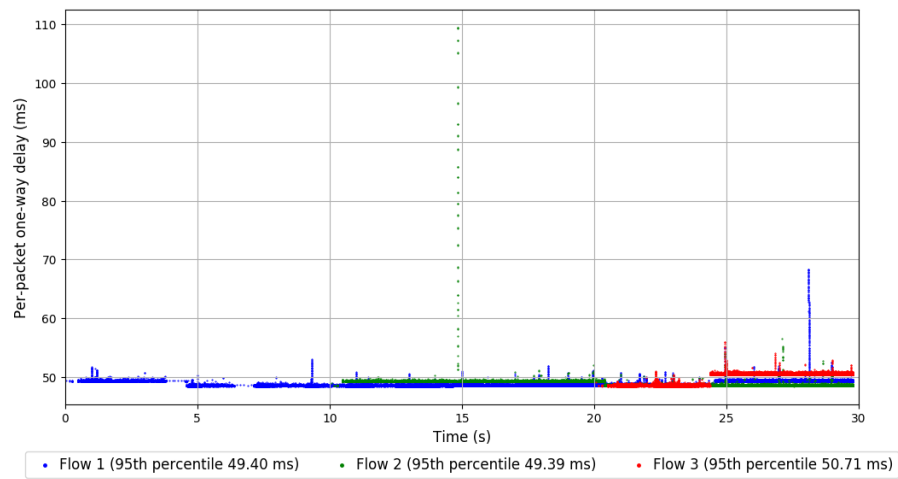
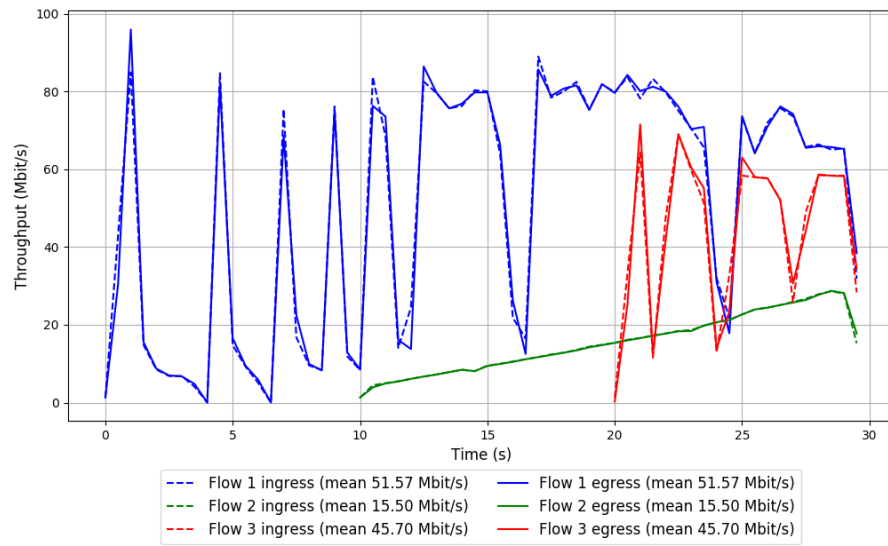
-- Flow 3:

Average throughput: 45.70 Mbit/s

95th percentile per-packet one-way delay: 50.709 ms

Loss rate: 0.00%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2017-12-06 06:09:04

End at: 2017-12-06 06:09:34

Below is generated by plot.py at 2017-12-06 09:23:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.29 Mbit/s

95th percentile per-packet one-way delay: 50.750 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 37.20 Mbit/s

95th percentile per-packet one-way delay: 52.168 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 60.42 Mbit/s

95th percentile per-packet one-way delay: 50.762 ms

Loss rate: 0.00%

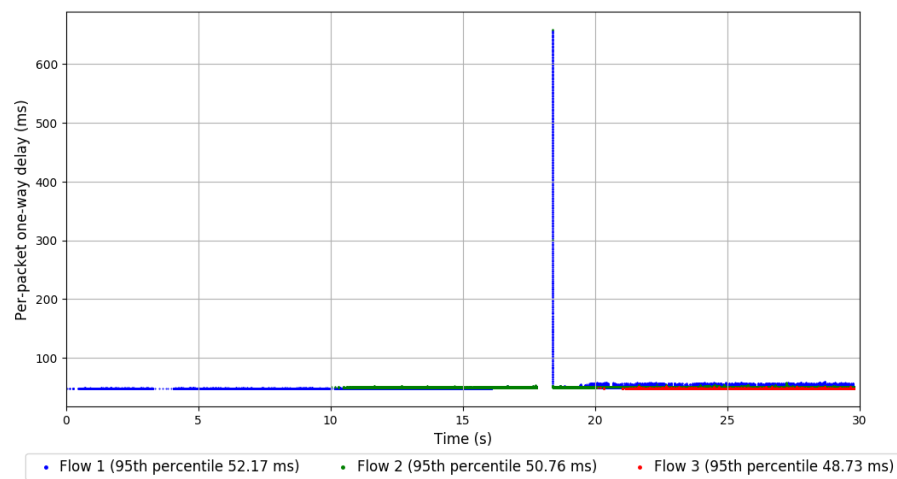
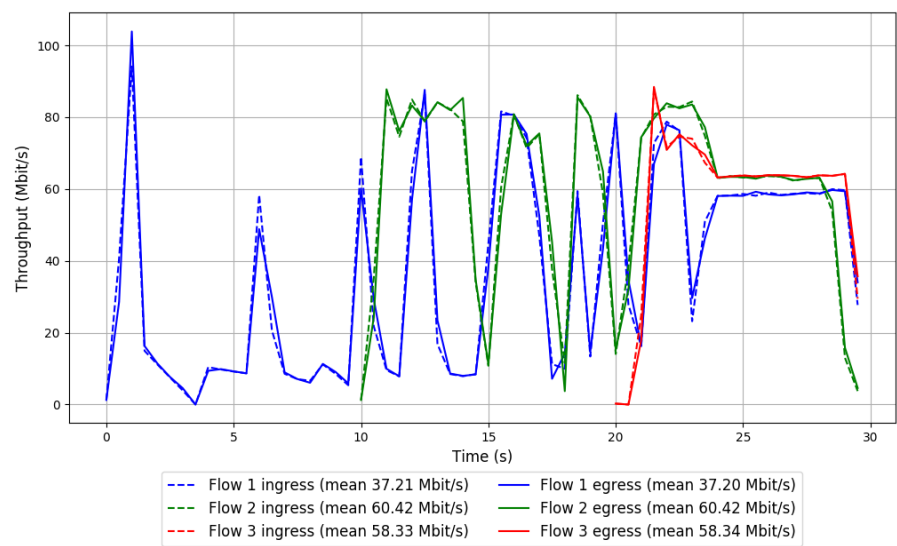
-- Flow 3:

Average throughput: 58.34 Mbit/s

95th percentile per-packet one-way delay: 48.734 ms

Loss rate: 0.00%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2017-12-06 06:21:21

End at: 2017-12-06 06:21:51

Below is generated by plot.py at 2017-12-06 09:23:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 119.52 Mbit/s

95th percentile per-packet one-way delay: 59.002 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 63.41 Mbit/s

95th percentile per-packet one-way delay: 66.652 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 62.64 Mbit/s

95th percentile per-packet one-way delay: 50.185 ms

Loss rate: 0.00%

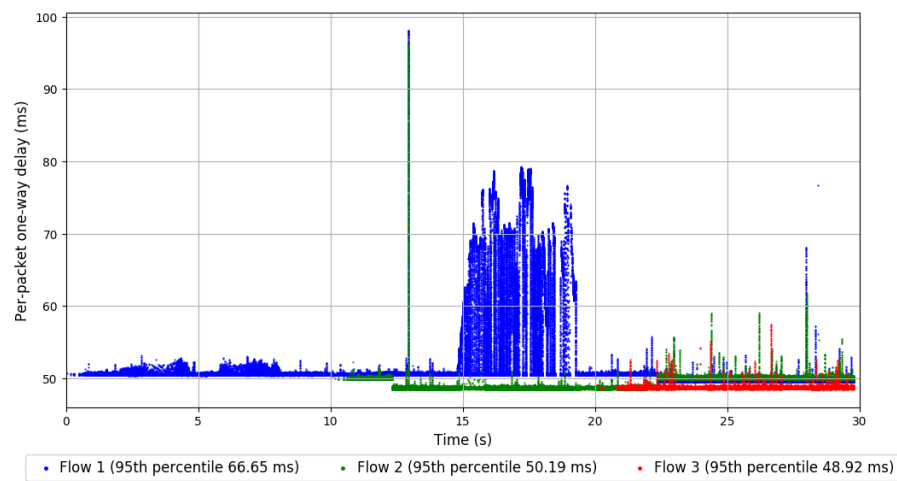
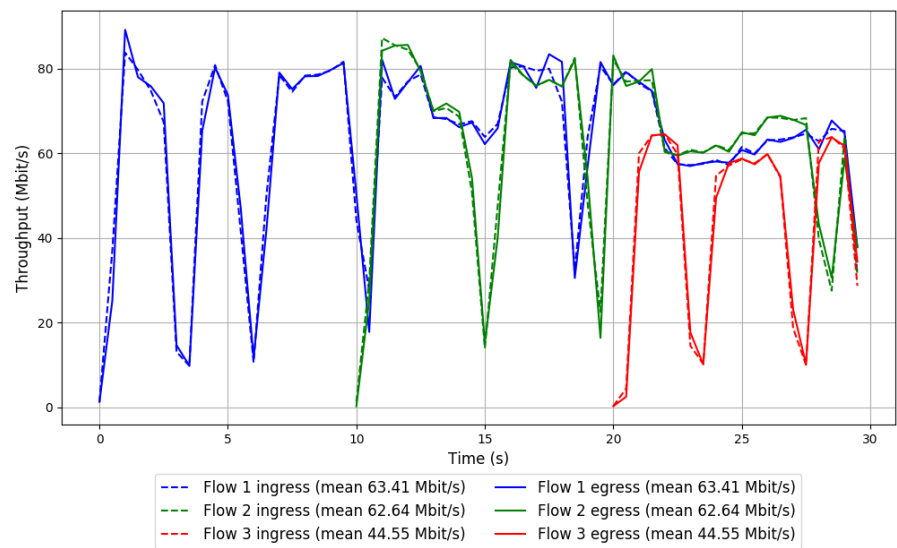
-- Flow 3:

Average throughput: 44.55 Mbit/s

95th percentile per-packet one-way delay: 48.917 ms

Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2017-12-06 06:33:33

End at: 2017-12-06 06:34:03

Below is generated by plot.py at 2017-12-06 09:23:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 123.95 Mbit/s

95th percentile per-packet one-way delay: 50.639 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 67.24 Mbit/s

95th percentile per-packet one-way delay: 49.774 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 59.87 Mbit/s

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

Loss rate: 0.00%

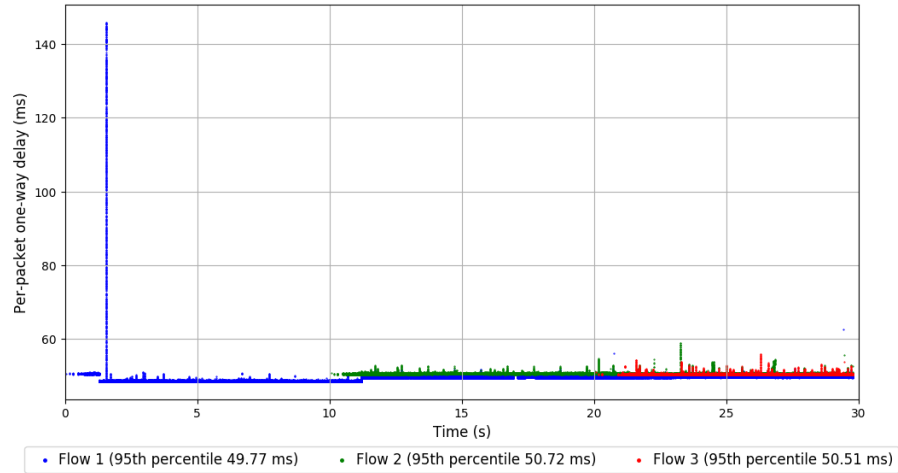
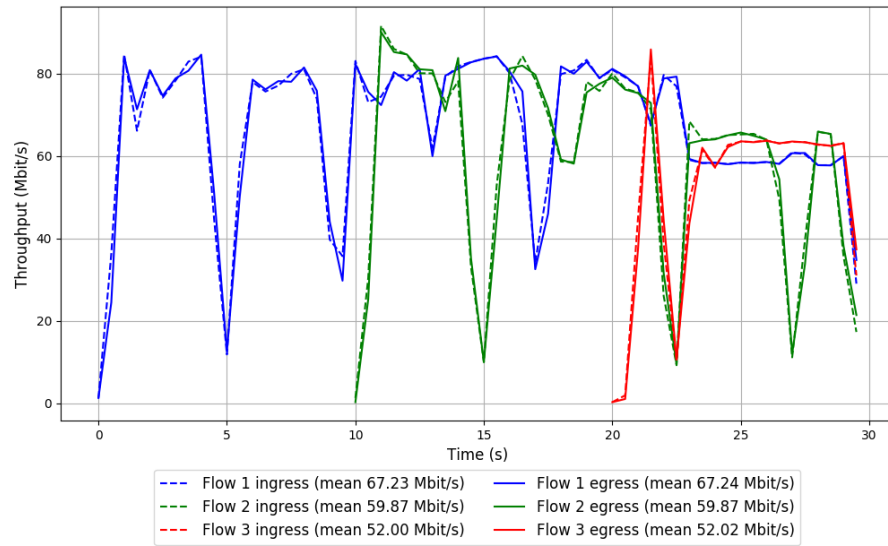
-- Flow 3:

Average throughput: 52.02 Mbit/s

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

Loss rate: 0.00%

Run 5: Report of QUIC Cubic — Data Link

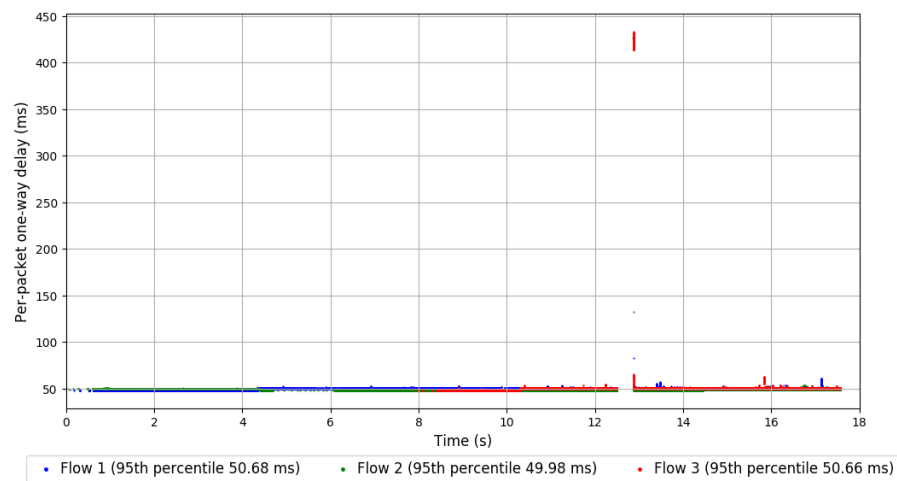
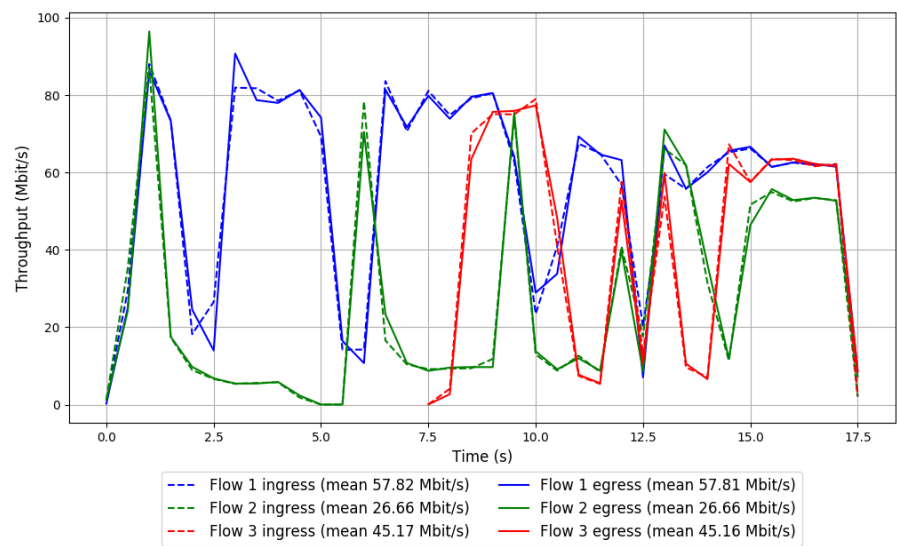


Run 6: Statistics of QUIC Cubic

Start at: 2017-12-06 06:45:57

End at: 2017-12-06 06:46:27

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2017-12-06 06:58:03

End at: 2017-12-06 06:58:33

Below is generated by plot.py at 2017-12-06 09:23:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 105.42 Mbit/s

95th percentile per-packet one-way delay: 49.730 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 57.42 Mbit/s

95th percentile per-packet one-way delay: 48.447 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 68.31 Mbit/s

95th percentile per-packet one-way delay: 49.790 ms

Loss rate: 0.00%

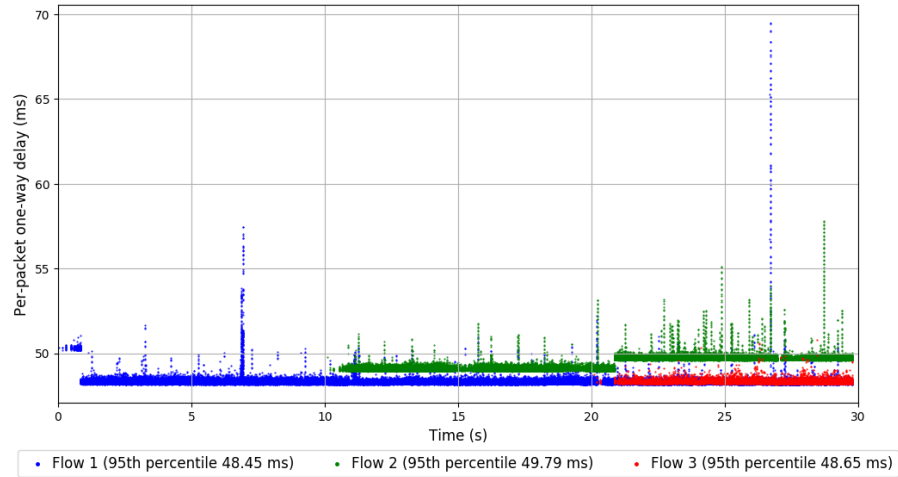
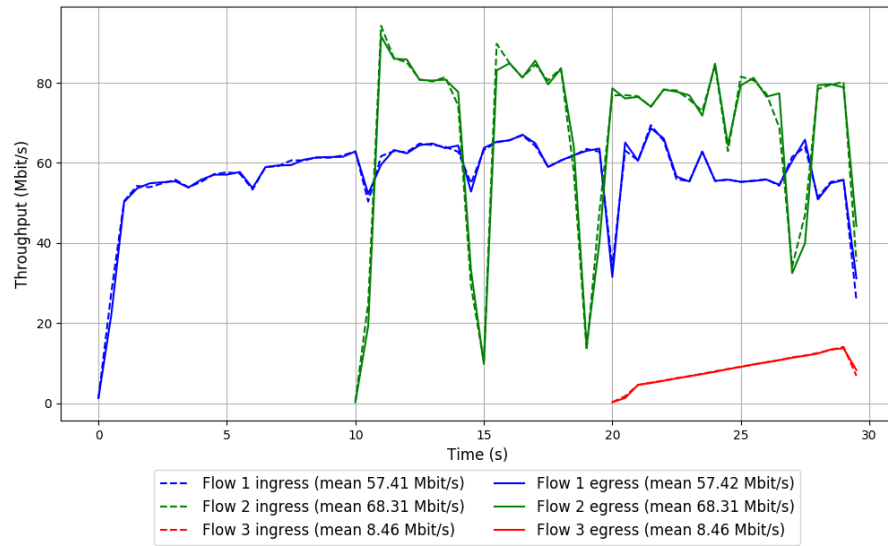
-- Flow 3:

Average throughput: 8.46 Mbit/s

95th percentile per-packet one-way delay: 48.647 ms

Loss rate: 0.00%

Run 7: Report of QUIC Cubic — Data Link

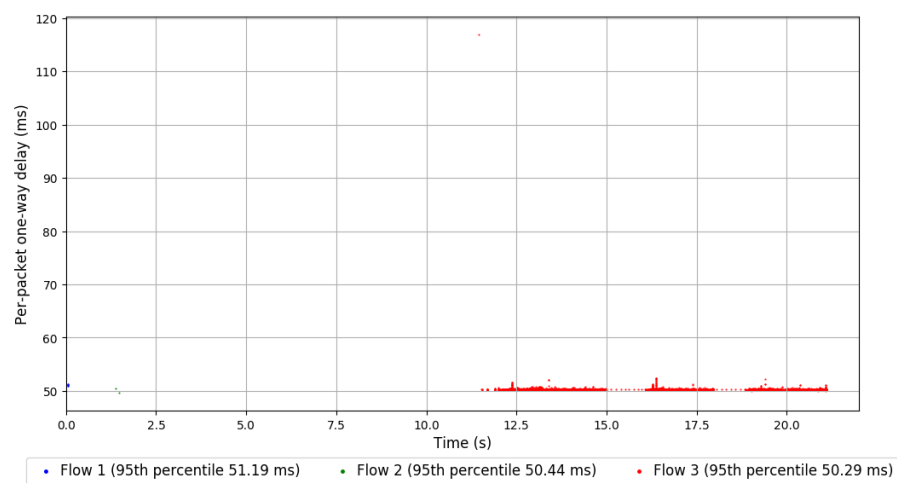
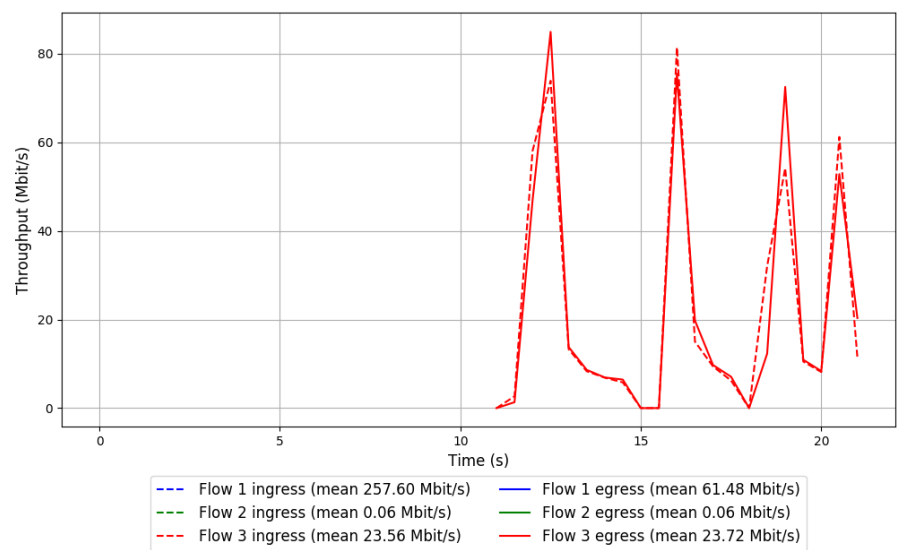


Run 8: Statistics of QUIC Cubic

Start at: 2017-12-06 07:10:14

End at: 2017-12-06 07:10:44

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2017-12-06 07:22:24

End at: 2017-12-06 07:22:54

Below is generated by plot.py at 2017-12-06 09:23:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 117.88 Mbit/s

95th percentile per-packet one-way delay: 50.026 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 66.74 Mbit/s

95th percentile per-packet one-way delay: 50.068 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 58.31 Mbit/s

95th percentile per-packet one-way delay: 48.463 ms

Loss rate: 0.00%

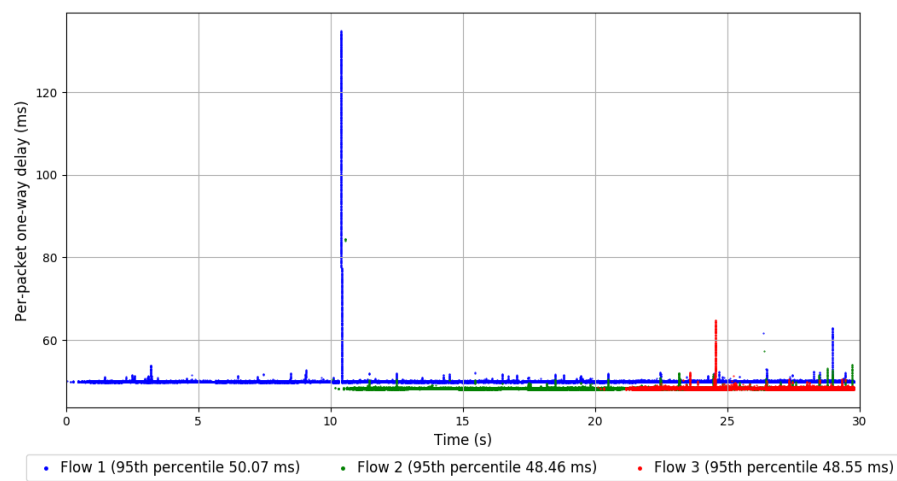
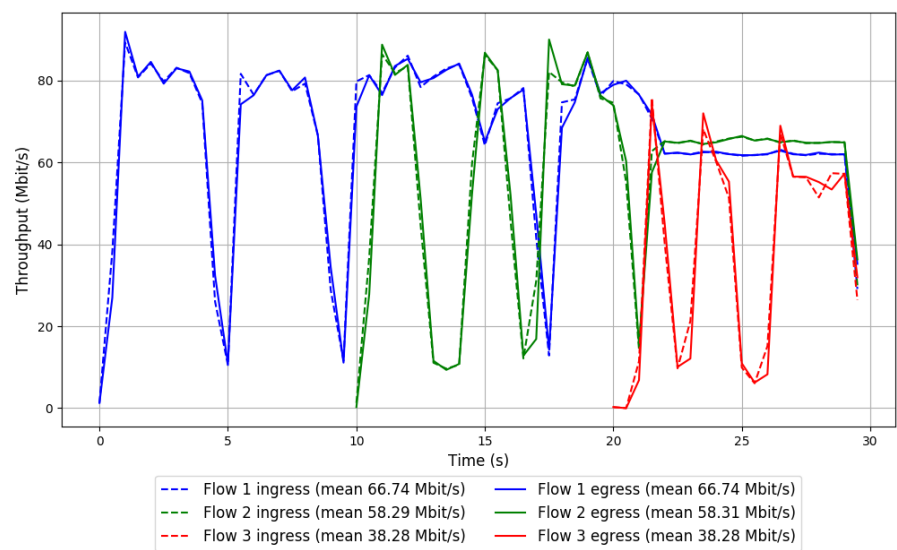
-- Flow 3:

Average throughput: 38.28 Mbit/s

95th percentile per-packet one-way delay: 48.546 ms

Loss rate: 0.00%

Run 9: Report of QUIC Cubic — Data Link

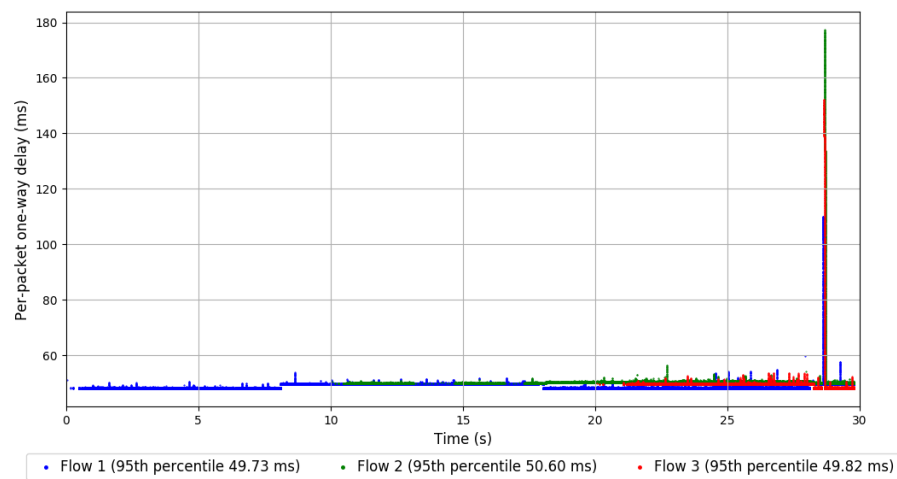
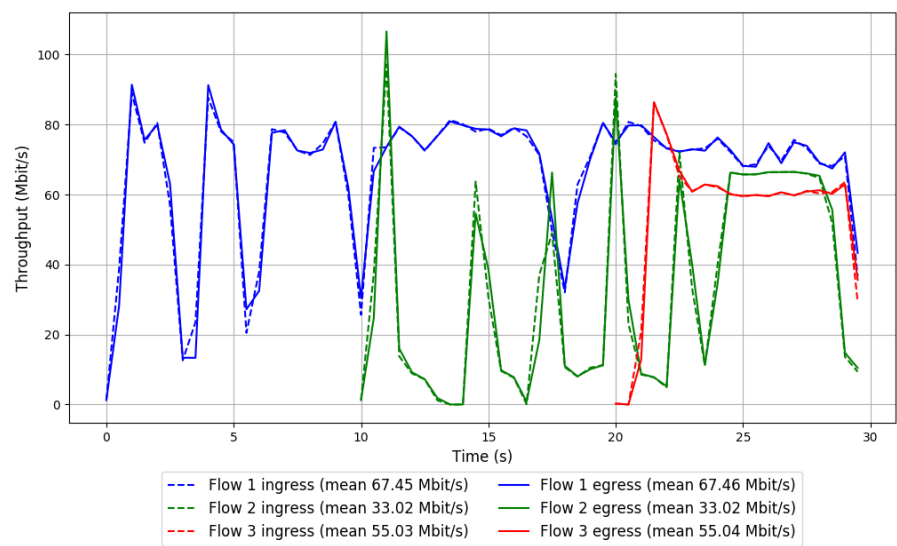


```
Run 10: Statistics of QUIC Cubic

Start at: 2017-12-06 07:34:36
End at: 2017-12-06 07:35:06

# Below is generated by plot.py at 2017-12-06 09:23:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 107.35 Mbit/s
95th percentile per-packet one-way delay: 50.364 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 67.46 Mbit/s
95th percentile per-packet one-way delay: 49.728 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 33.02 Mbit/s
95th percentile per-packet one-way delay: 50.605 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 55.04 Mbit/s
95th percentile per-packet one-way delay: 49.824 ms
Loss rate: 0.00%
```

Run 10: Report of QUIC Cubic — Data Link

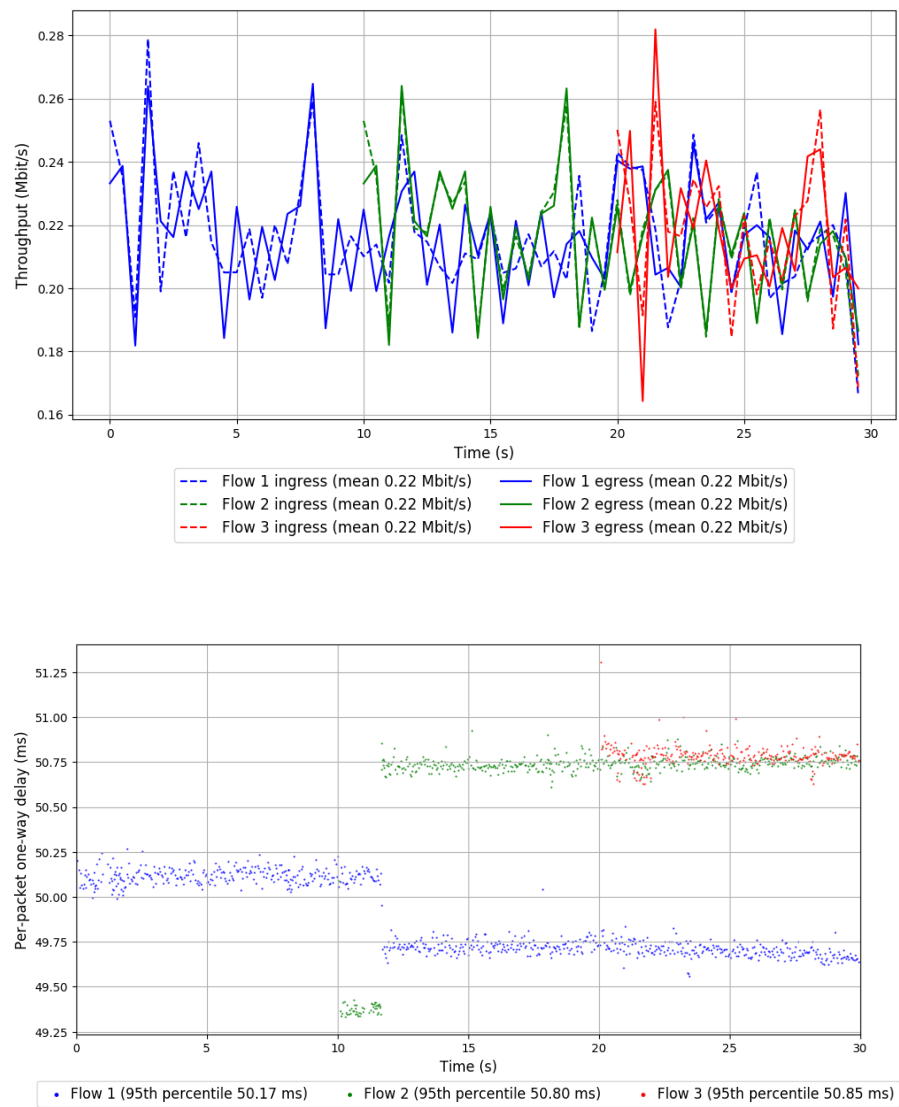


```
Run 1: Statistics of SCReAM

Start at: 2017-12-06 05:44:02
End at: 2017-12-06 05:44:32

# Below is generated by plot.py at 2017-12-06 09:23:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 50.813 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.166 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.804 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.852 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

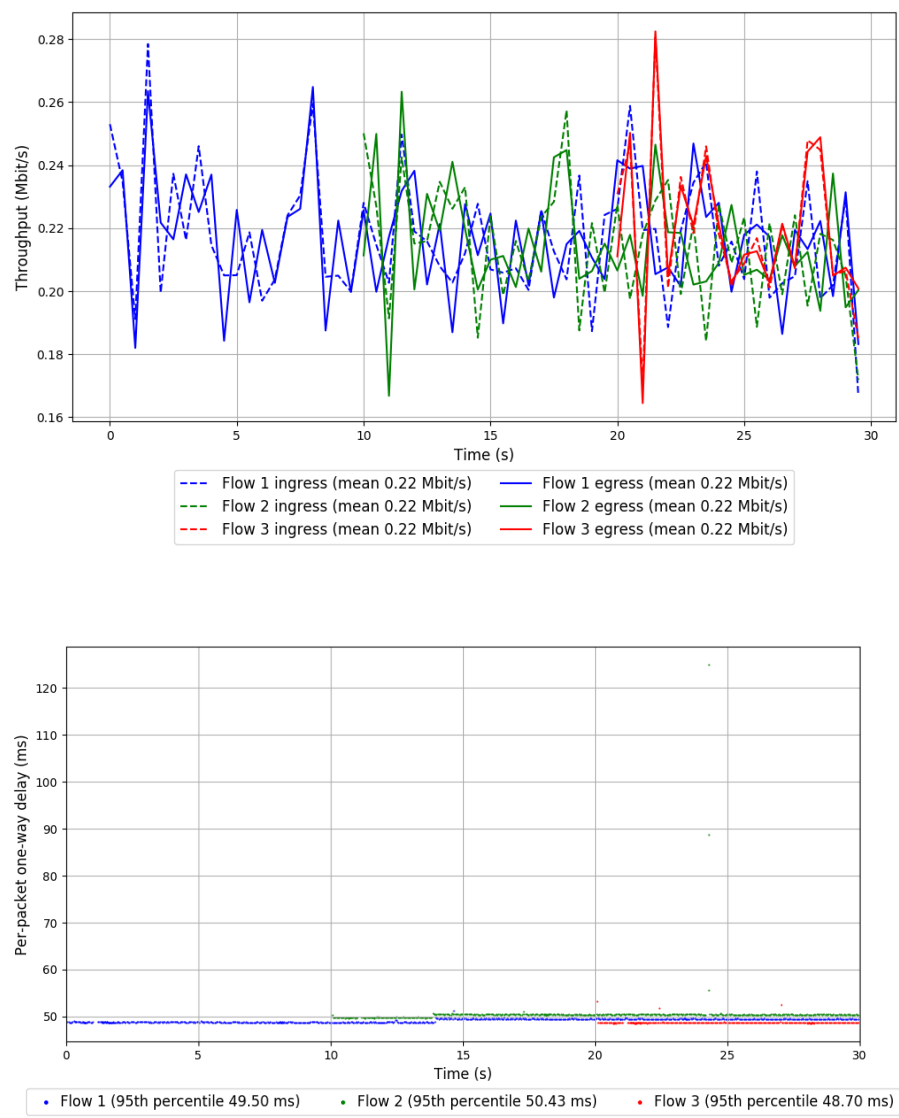


```
Run 2: Statistics of SReAM

Start at: 2017-12-06 05:56:10
End at: 2017-12-06 05:56:40

# Below is generated by plot.py at 2017-12-06 09:23:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 50.403 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 49.496 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.433 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 48.695 ms
Loss rate: 0.00%
```

Run 2: Report of SReAM — Data Link

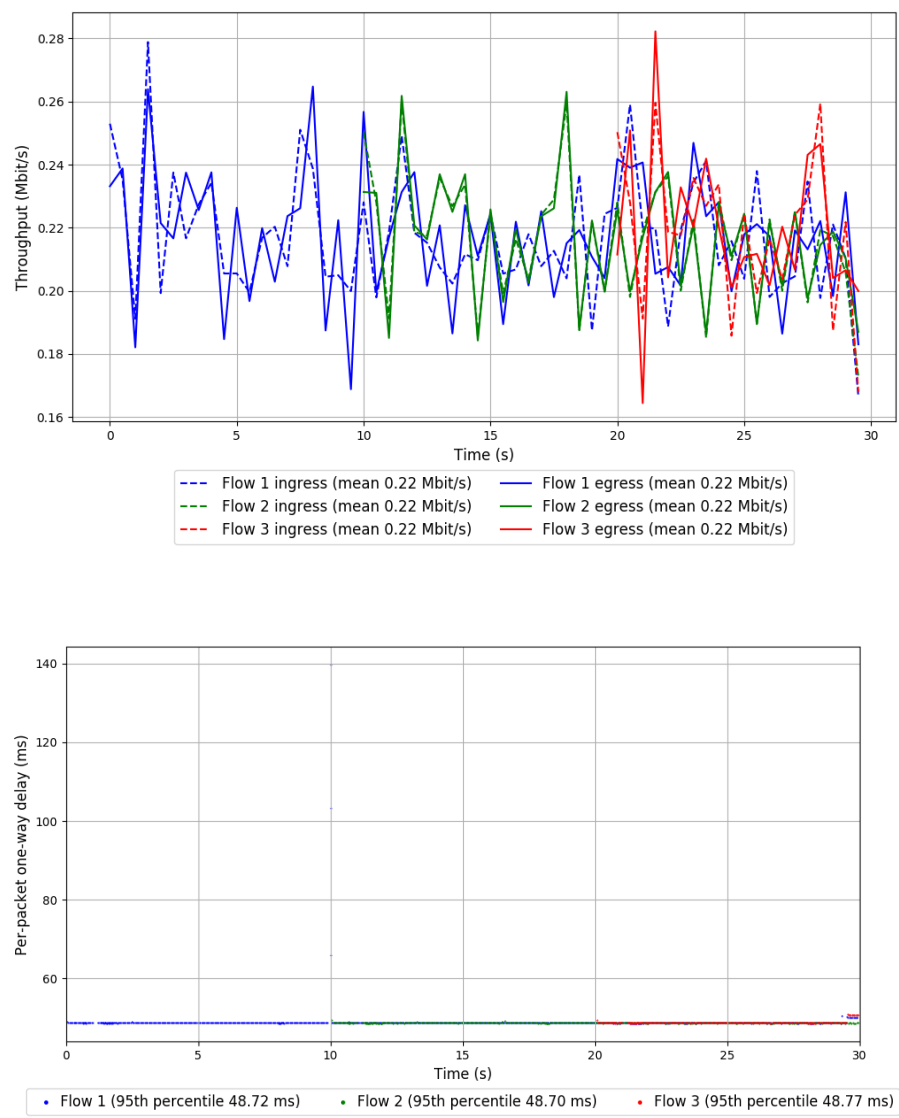


```
Run 3: Statistics of SCReAM

Start at: 2017-12-06 06:08:24
End at: 2017-12-06 06:08:54

# Below is generated by plot.py at 2017-12-06 09:23:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 48.724 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 48.724 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 48.702 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 48.766 ms
Loss rate: 0.00%
```


Run 3: Report of SReAM — Data Link

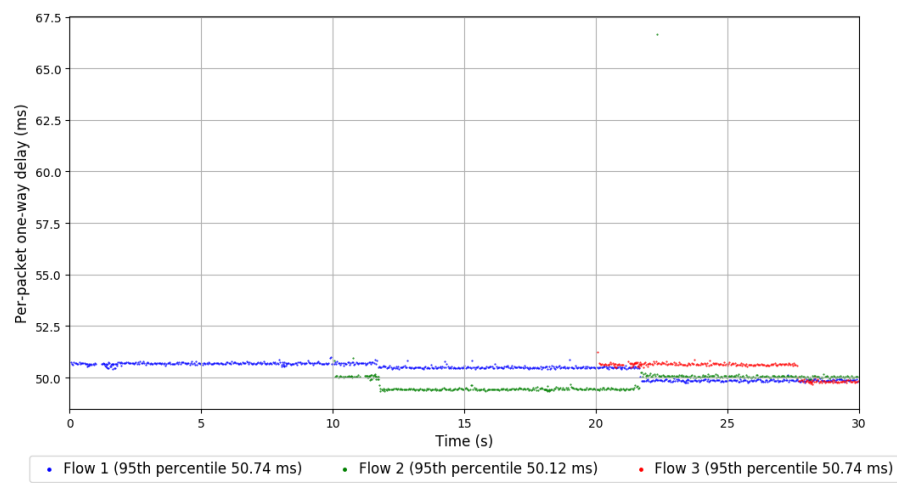
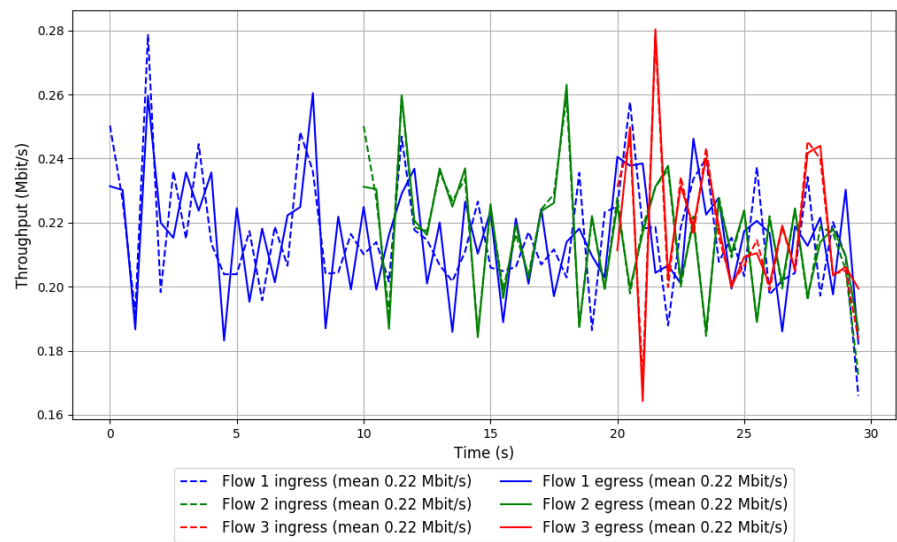


```
Run 4: Statistics of SCReAM

Start at: 2017-12-06 06:20:42
End at: 2017-12-06 06:21:12

# Below is generated by plot.py at 2017-12-06 09:23:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 50.729 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.737 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.115 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.741 ms
Loss rate: 0.00%
```

Run 4: Report of SReAM — Data Link

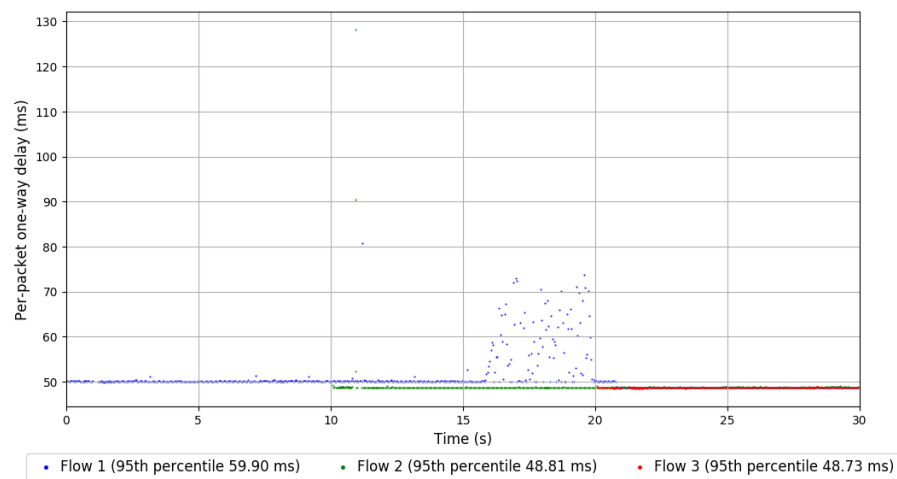
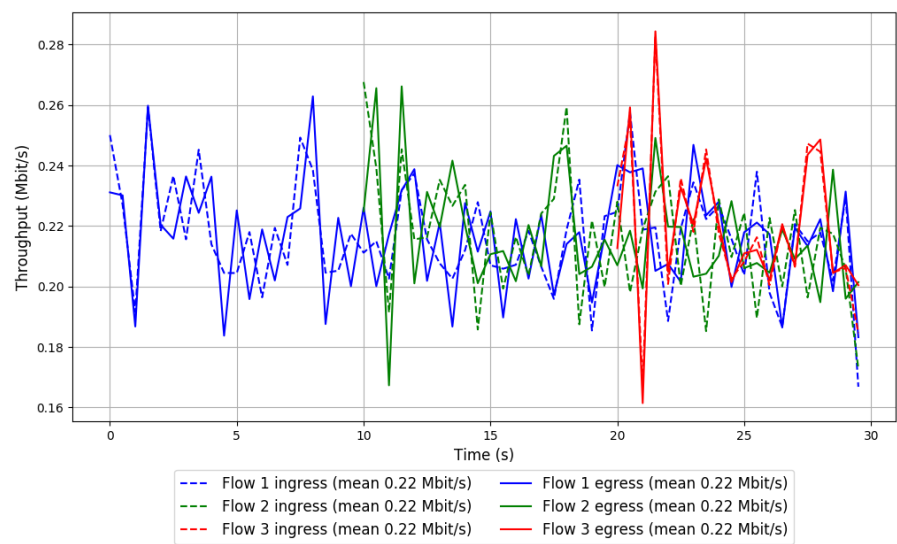


```
Run 5: Statistics of SCReAM

Start at: 2017-12-06 06:32:53
End at: 2017-12-06 06:33:23

# Below is generated by plot.py at 2017-12-06 09:23:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 51.722 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 59.895 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 48.807 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 48.728 ms
Loss rate: 0.00%
```

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SReAM

Start at: 2017-12-06 06:45:18

End at: 2017-12-06 06:45:48

Below is generated by plot.py at 2017-12-06 09:23:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 49.989 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 49.769 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.023 ms

Loss rate: 0.00%

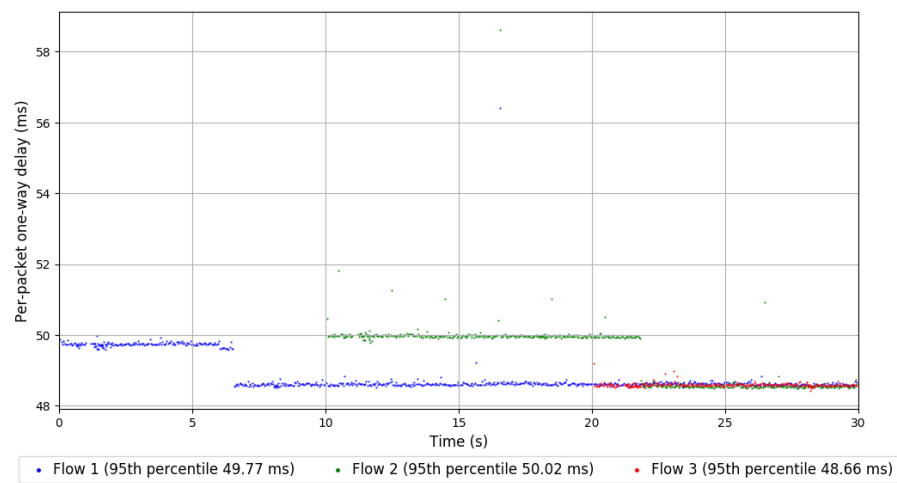
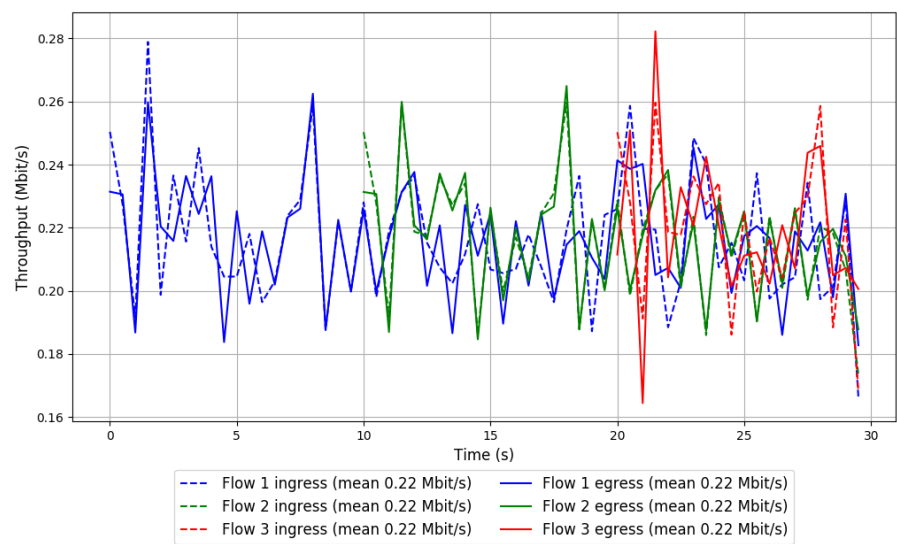
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 48.657 ms

Loss rate: 0.00%

Run 6: Report of SReAM — Data Link

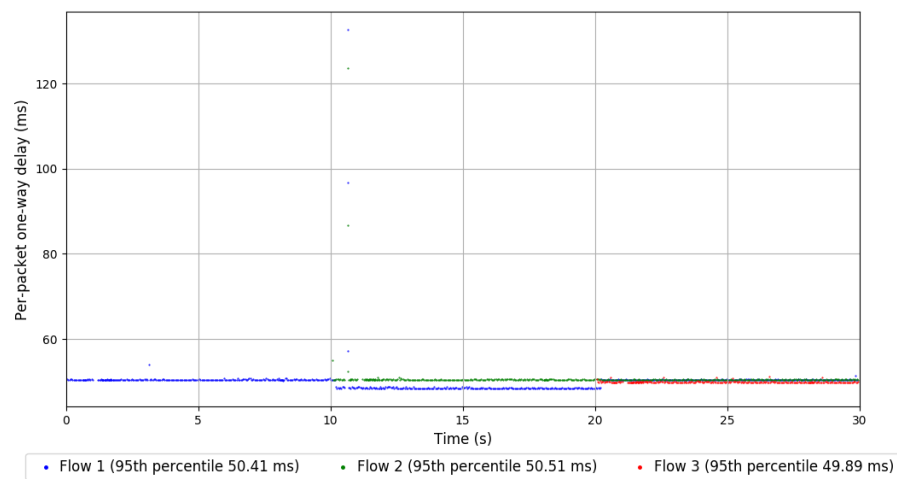
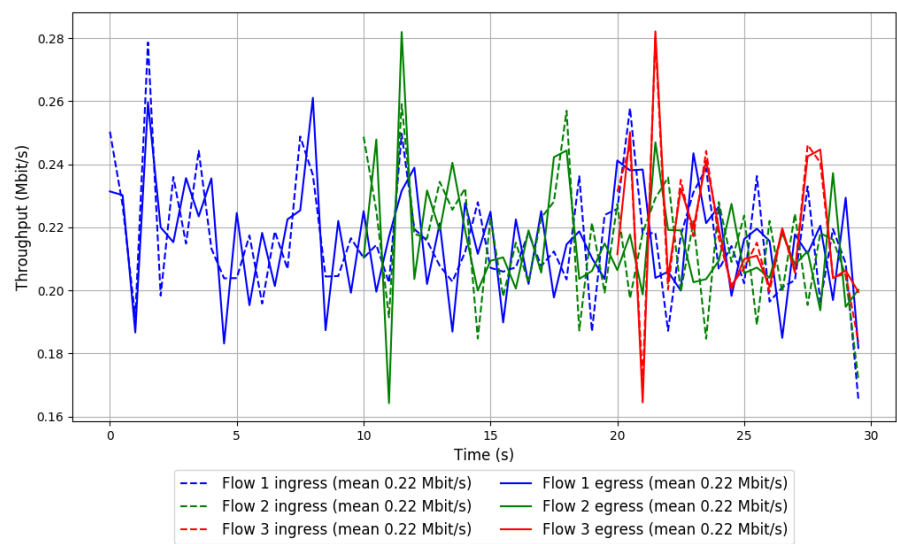


```
Run 7: Statistics of SCReAM

Start at: 2017-12-06 06:57:24
End at: 2017-12-06 06:57:54

# Below is generated by plot.py at 2017-12-06 09:23:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 50.452 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.415 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.505 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 49.894 ms
Loss rate: 0.00%
```


Run 7: Report of SReAM — Data Link



Run 8: Statistics of SReAM

Start at: 2017-12-06 07:09:35

End at: 2017-12-06 07:10:05

Below is generated by plot.py at 2017-12-06 09:23:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 50.297 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 49.819 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 49.820 ms

Loss rate: 0.00%

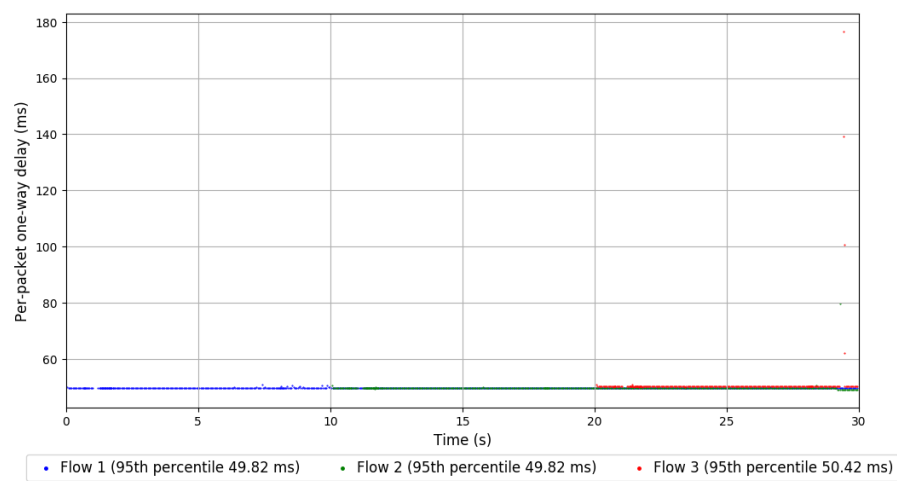
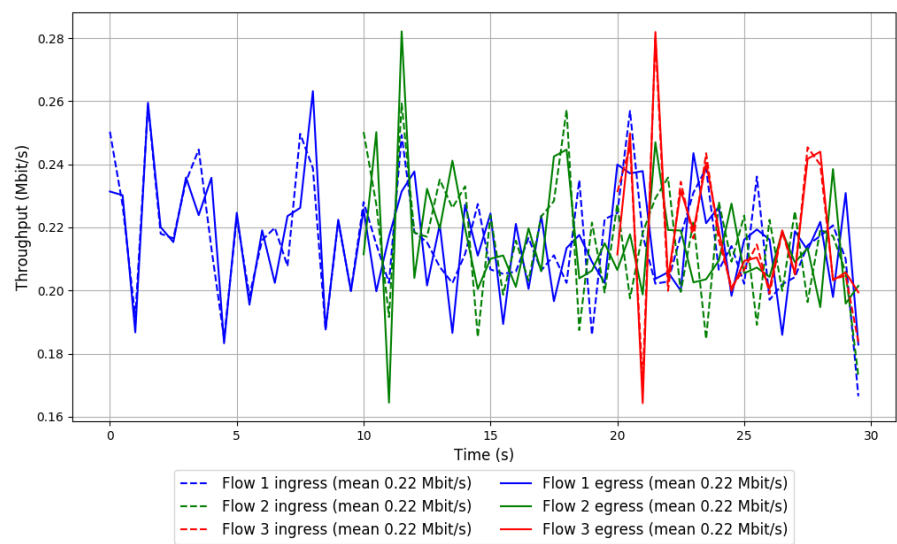
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.416 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SReAM

Start at: 2017-12-06 07:21:45

End at: 2017-12-06 07:22:15

Below is generated by plot.py at 2017-12-06 09:23:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 50.187 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 49.779 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.107 ms

Loss rate: 0.00%

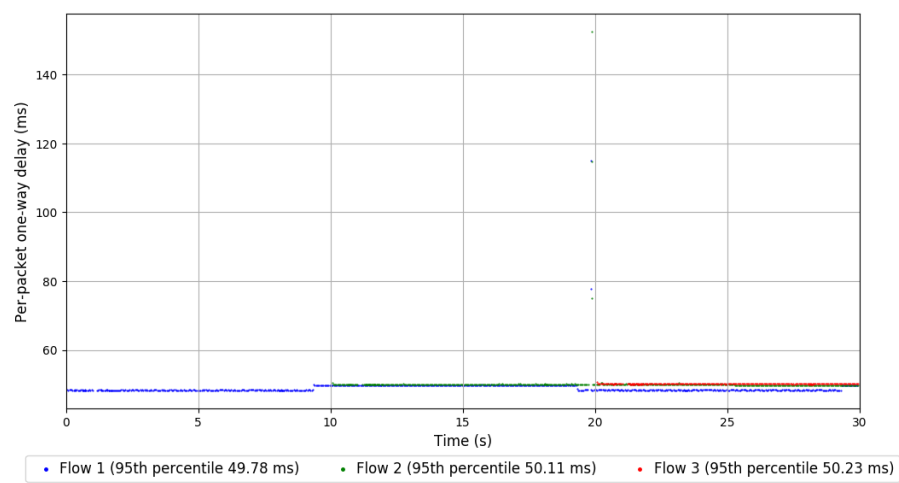
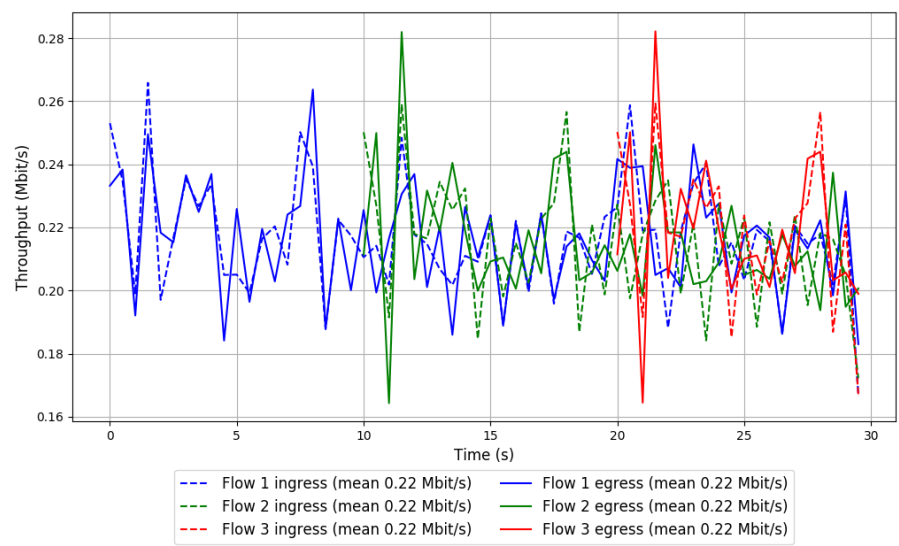
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.231 ms

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link

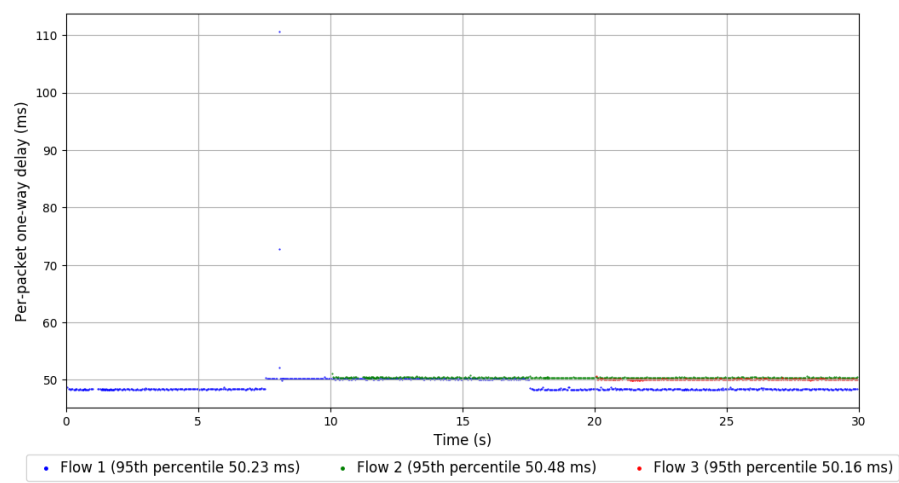
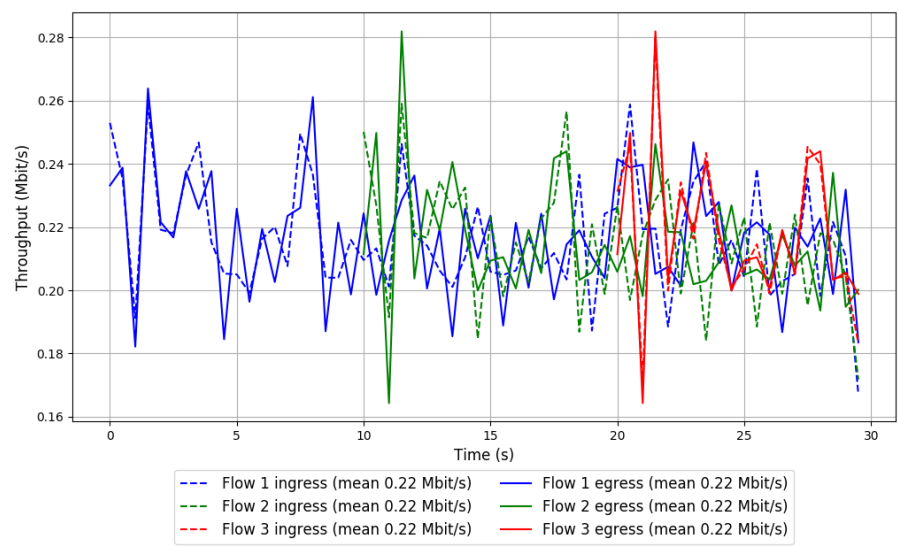


```
Run 10: Statistics of SCReAM

Start at: 2017-12-06 07:33:56
End at: 2017-12-06 07:34:26

# Below is generated by plot.py at 2017-12-06 09:23:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 50.454 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.229 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.485 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.164 ms
Loss rate: 0.00%
```

Run 10: Report of SReAM — Data Link

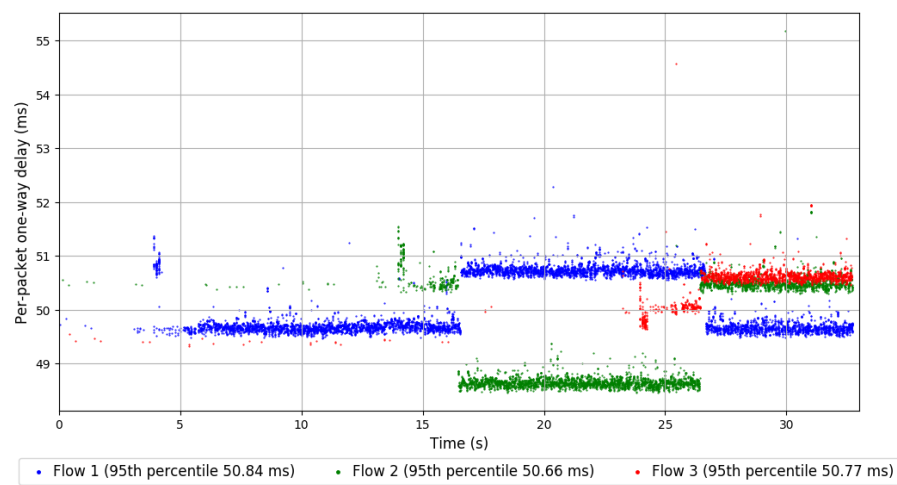
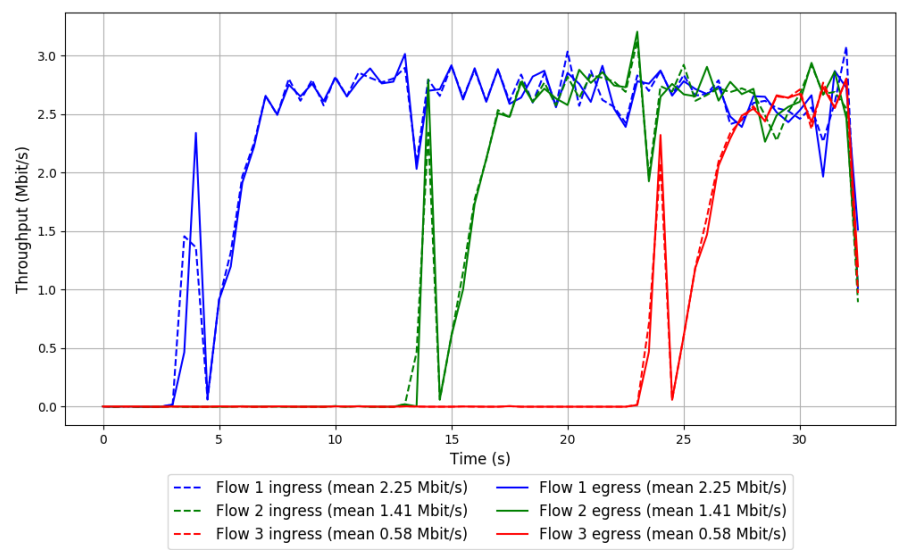


```
Run 1: Statistics of WebRTC media

Start at: 2017-12-06 05:39:50
End at: 2017-12-06 05:40:20

# Below is generated by plot.py at 2017-12-06 09:23:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.24 Mbit/s
95th percentile per-packet one-way delay: 50.818 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 2.25 Mbit/s
95th percentile per-packet one-way delay: 50.845 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.41 Mbit/s
95th percentile per-packet one-way delay: 50.659 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 0.58 Mbit/s
95th percentile per-packet one-way delay: 50.772 ms
Loss rate: 0.00%
```


Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2017-12-06 05:51:59

End at: 2017-12-06 05:52:29

Below is generated by plot.py at 2017-12-06 09:23:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.20 Mbit/s

95th percentile per-packet one-way delay: 50.635 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.23 Mbit/s

95th percentile per-packet one-way delay: 50.248 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.42 Mbit/s

95th percentile per-packet one-way delay: 49.910 ms

Loss rate: 0.00%

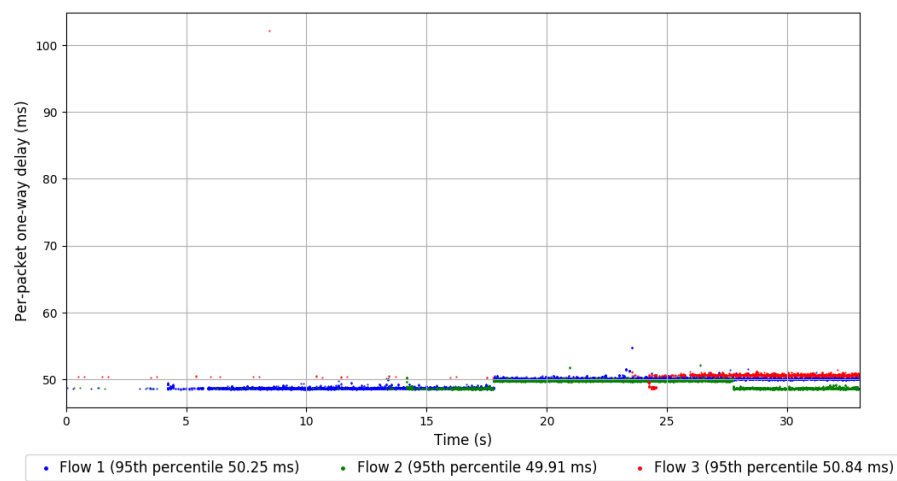
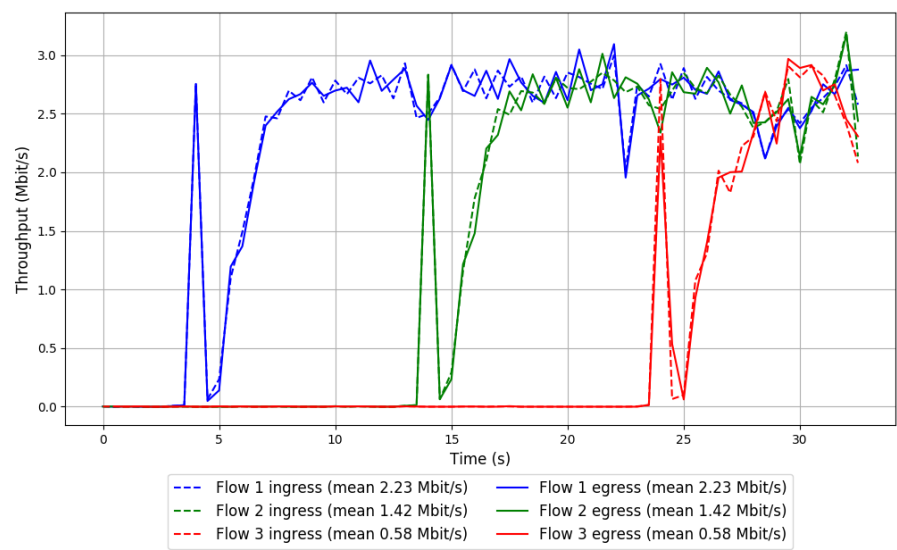
-- Flow 3:

Average throughput: 0.58 Mbit/s

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

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2017-12-06 06:04:15

End at: 2017-12-06 06:04:45

Below is generated by plot.py at 2017-12-06 09:23:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.20 Mbit/s

95th percentile per-packet one-way delay: 50.381 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.23 Mbit/s

95th percentile per-packet one-way delay: 50.121 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.40 Mbit/s

95th percentile per-packet one-way delay: 50.449 ms

Loss rate: 0.00%

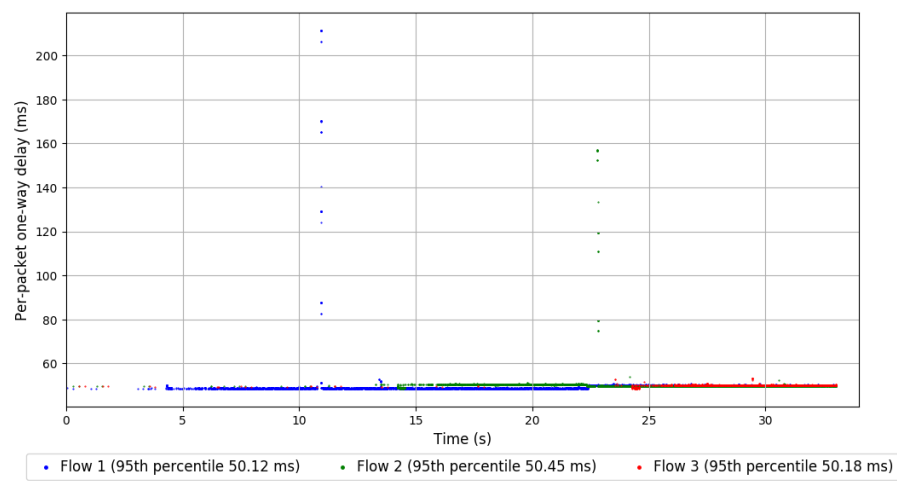
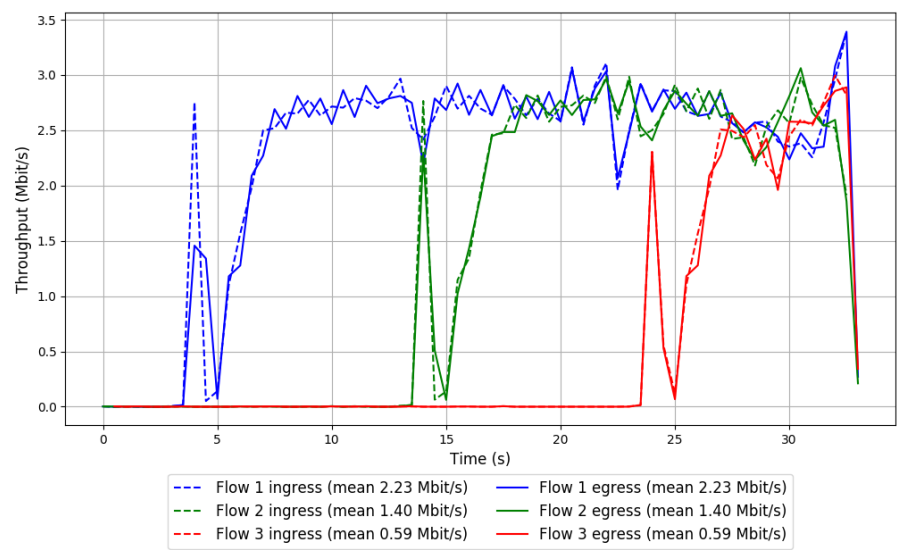
-- Flow 3:

Average throughput: 0.59 Mbit/s

95th percentile per-packet one-way delay: 50.176 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2017-12-06 06:16:34

End at: 2017-12-06 06:17:04

Below is generated by plot.py at 2017-12-06 09:23:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.14 Mbit/s

95th percentile per-packet one-way delay: 50.477 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.21 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.39 Mbit/s

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

Loss rate: 0.00%

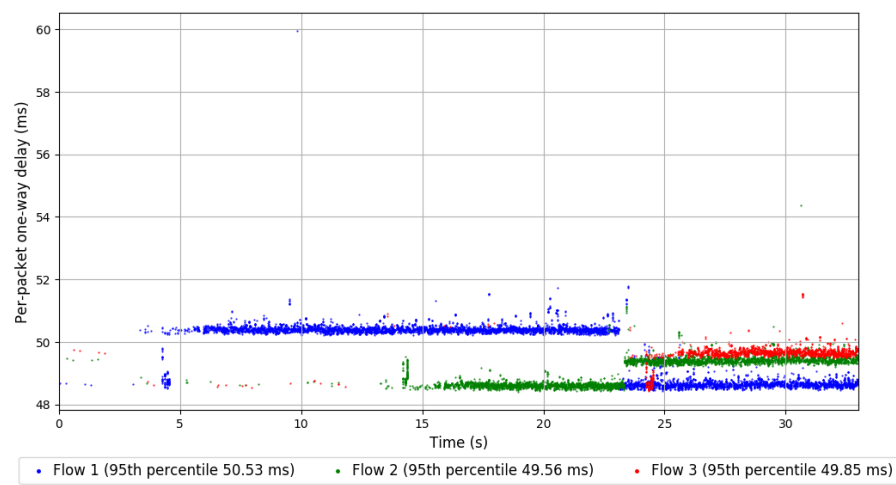
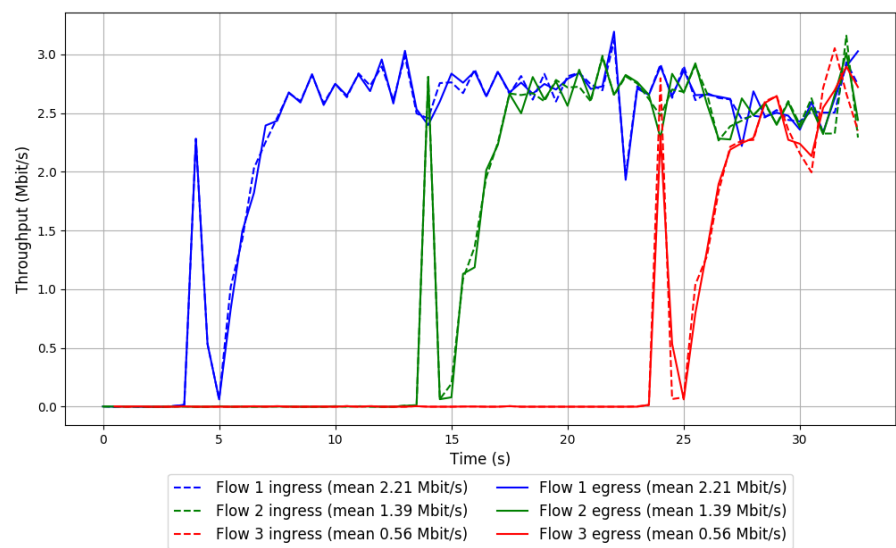
-- Flow 3:

Average throughput: 0.56 Mbit/s

95th percentile per-packet one-way delay: 49.851 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2017-12-06 06:28:44

End at: 2017-12-06 06:29:14

Below is generated by plot.py at 2017-12-06 09:23:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.17 Mbit/s

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

Loss rate: 0.01%

-- Flow 1:

Average throughput: 2.23 Mbit/s

95th percentile per-packet one-way delay: 48.890 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 1.40 Mbit/s

95th percentile per-packet one-way delay: 50.625 ms

Loss rate: 0.02%

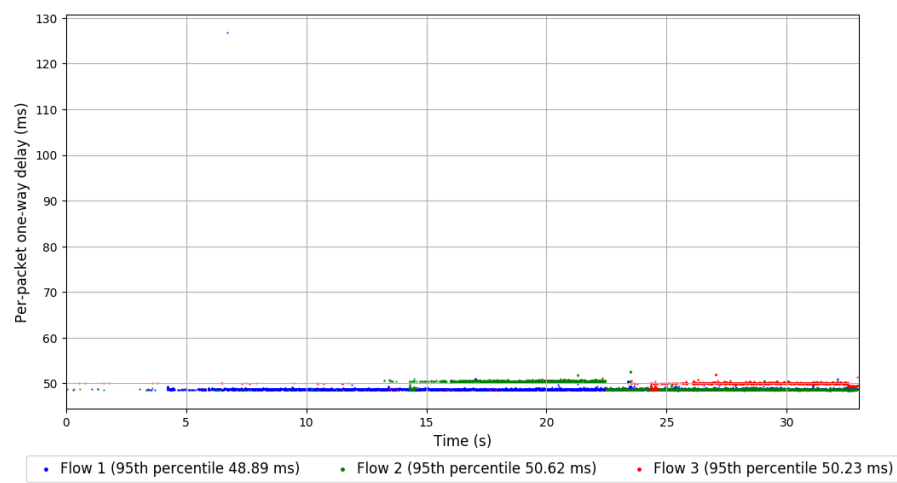
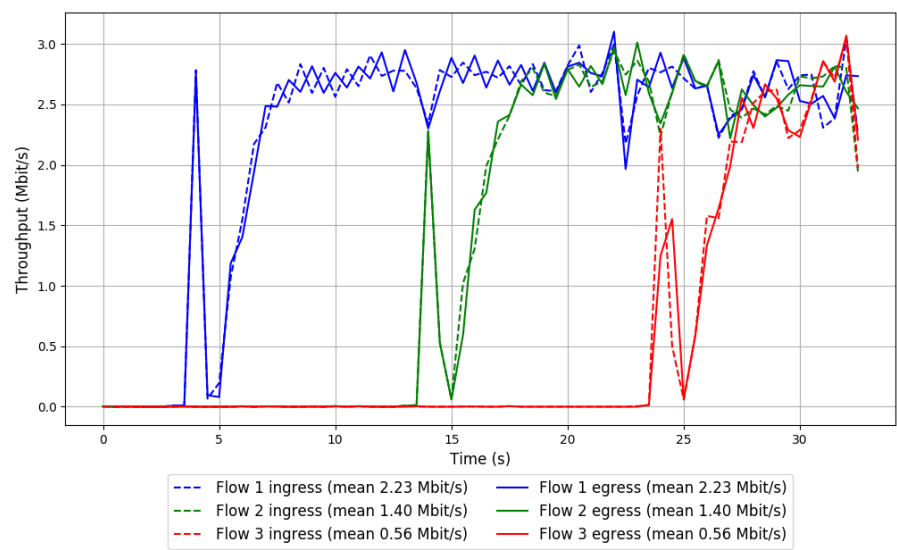
-- Flow 3:

Average throughput: 0.56 Mbit/s

95th percentile per-packet one-way delay: 50.232 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2017-12-06 06:41:06

End at: 2017-12-06 06:41:36

Below is generated by plot.py at 2017-12-06 09:23:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.45 Mbit/s

95th percentile per-packet one-way delay: 50.655 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.35 Mbit/s

95th percentile per-packet one-way delay: 50.712 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.49 Mbit/s

95th percentile per-packet one-way delay: 48.882 ms

Loss rate: 0.00%

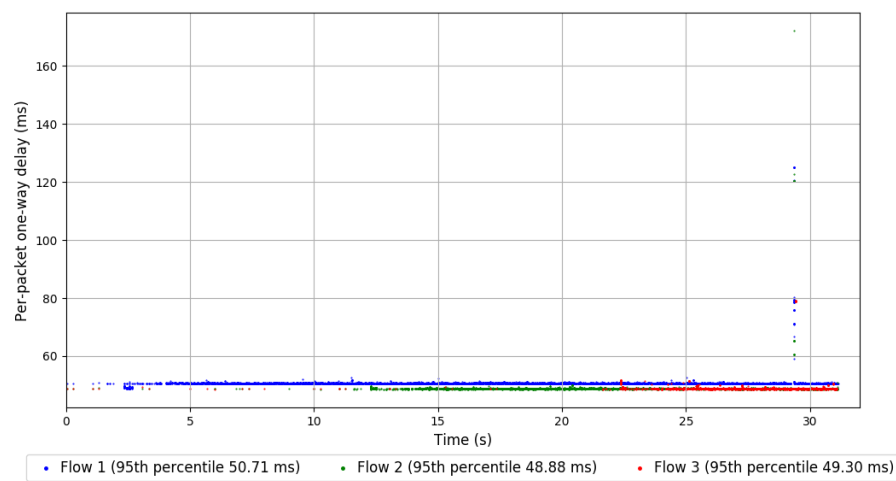
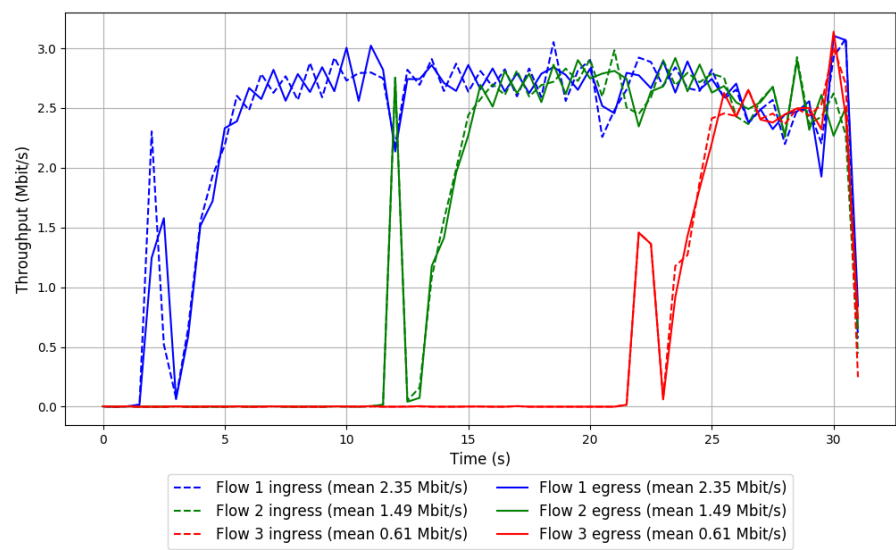
-- Flow 3:

Average throughput: 0.61 Mbit/s

95th percentile per-packet one-way delay: 49.299 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2017-12-06 06:53:11

End at: 2017-12-06 06:53:41

Below is generated by plot.py at 2017-12-06 09:23:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.18 Mbit/s

95th percentile per-packet one-way delay: 50.417 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 2.22 Mbit/s

95th percentile per-packet one-way delay: 50.034 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 1.39 Mbit/s

95th percentile per-packet one-way delay: 50.491 ms

Loss rate: 0.00%

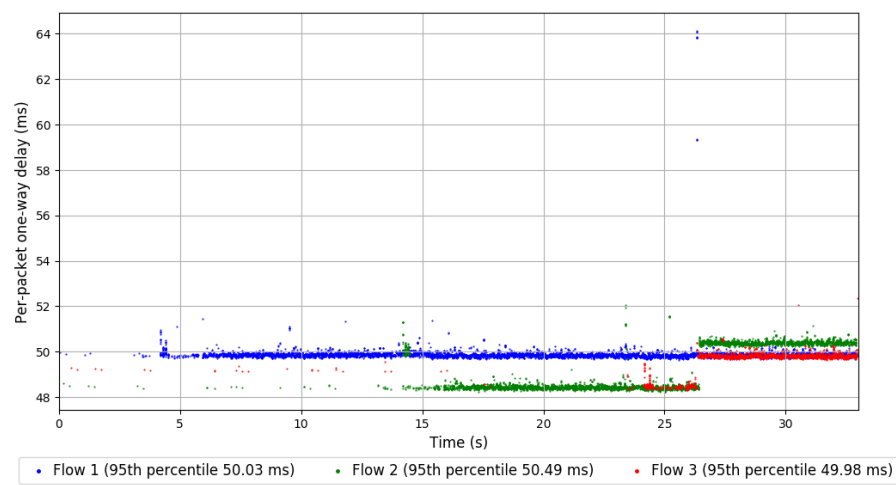
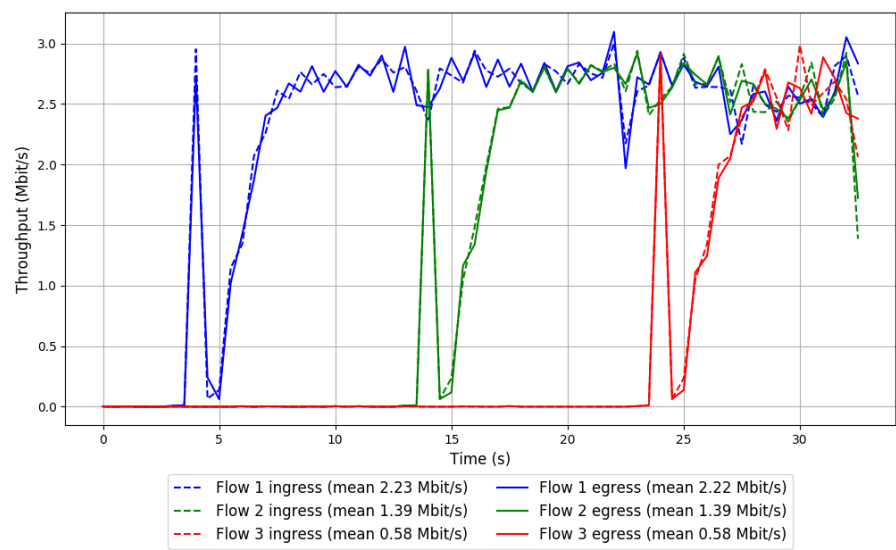
-- Flow 3:

Average throughput: 0.58 Mbit/s

95th percentile per-packet one-way delay: 49.977 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2017-12-06 07:05:26

End at: 2017-12-06 07:05:56

Below is generated by plot.py at 2017-12-06 09:23:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.17 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.23 Mbit/s

95th percentile per-packet one-way delay: 49.896 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.40 Mbit/s

95th percentile per-packet one-way delay: 50.554 ms

Loss rate: 0.00%

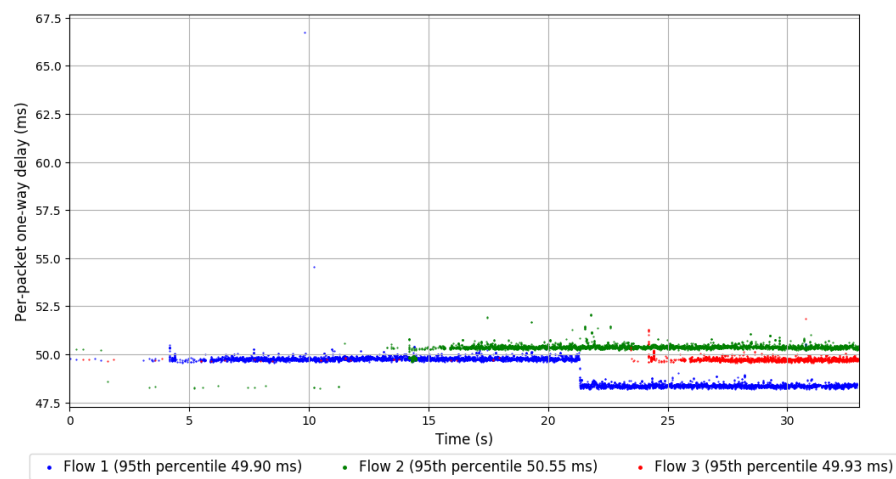
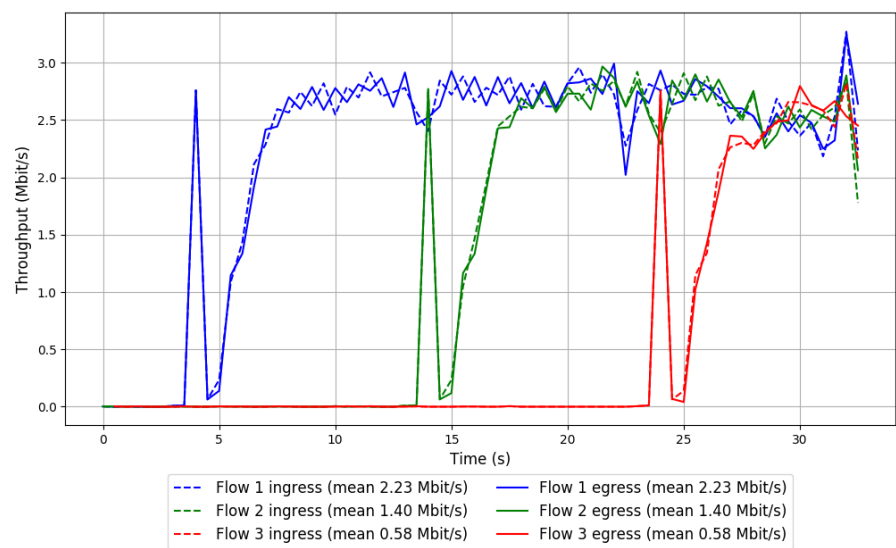
-- Flow 3:

Average throughput: 0.58 Mbit/s

95th percentile per-packet one-way delay: 49.930 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2017-12-06 07:17:33

End at: 2017-12-06 07:18:03

Below is generated by plot.py at 2017-12-06 09:23:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.16 Mbit/s

95th percentile per-packet one-way delay: 50.096 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.22 Mbit/s

95th percentile per-packet one-way delay: 49.906 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.40 Mbit/s

95th percentile per-packet one-way delay: 50.143 ms

Loss rate: 0.00%

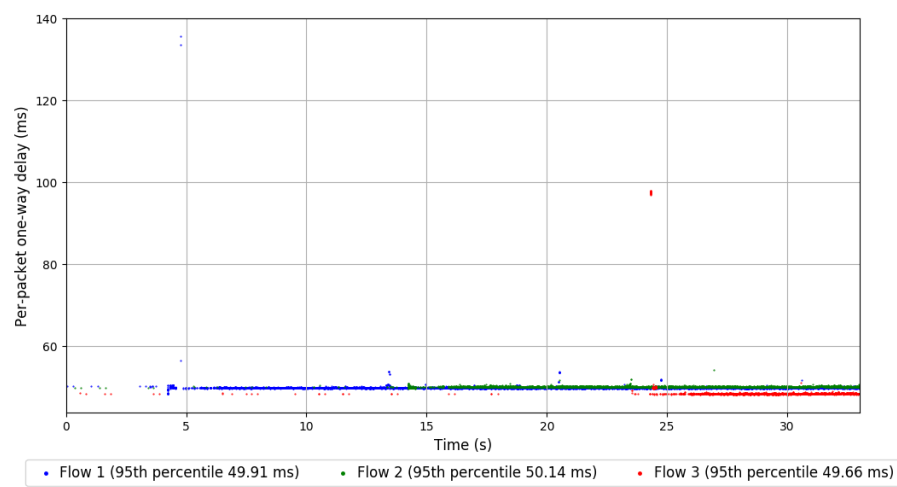
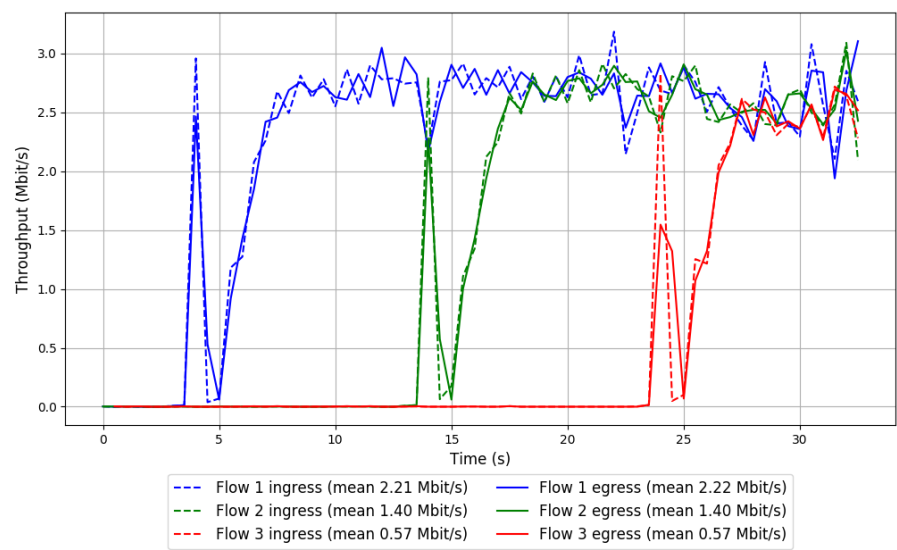
-- Flow 3:

Average throughput: 0.57 Mbit/s

95th percentile per-packet one-way delay: 49.665 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2017-12-06 07:29:42

End at: 2017-12-06 07:30:12

Below is generated by plot.py at 2017-12-06 09:23:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.18 Mbit/s

95th percentile per-packet one-way delay: 49.846 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 2.23 Mbit/s

95th percentile per-packet one-way delay: 49.895 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 1.42 Mbit/s

95th percentile per-packet one-way delay: 48.762 ms

Loss rate: 0.00%

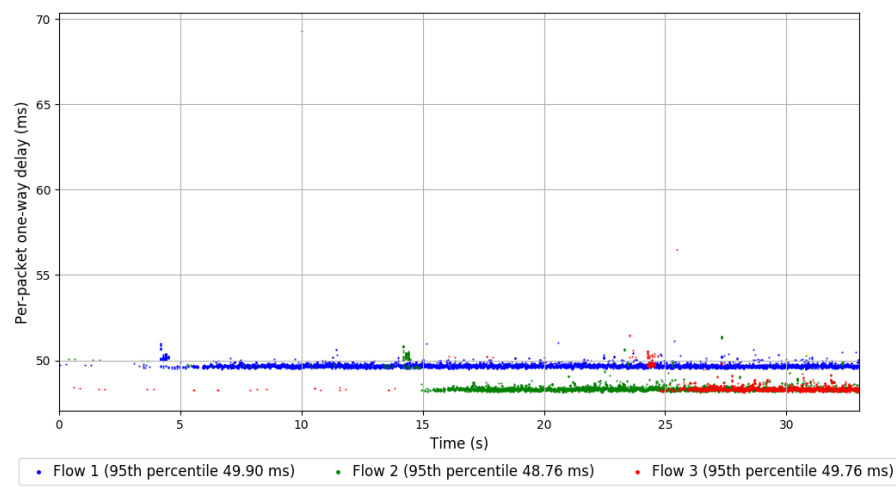
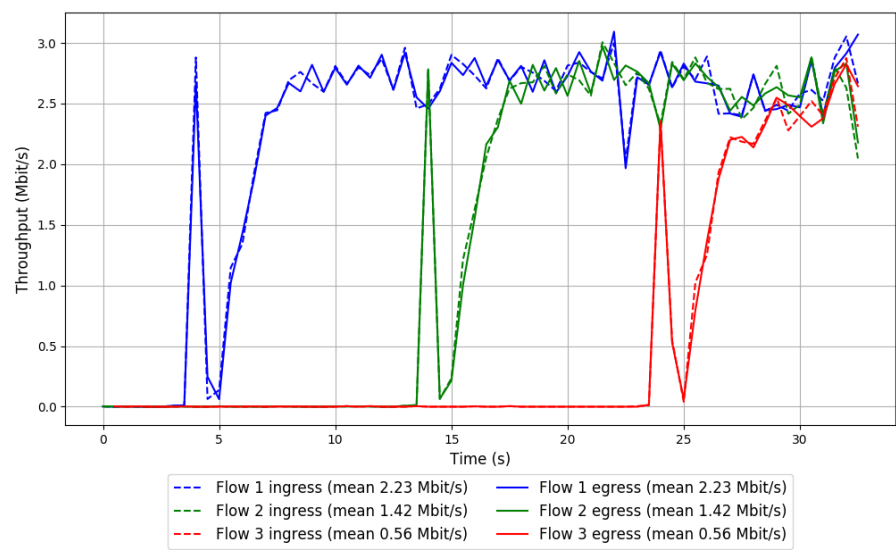
-- Flow 3:

Average throughput: 0.56 Mbit/s

95th percentile per-packet one-way delay: 49.761 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

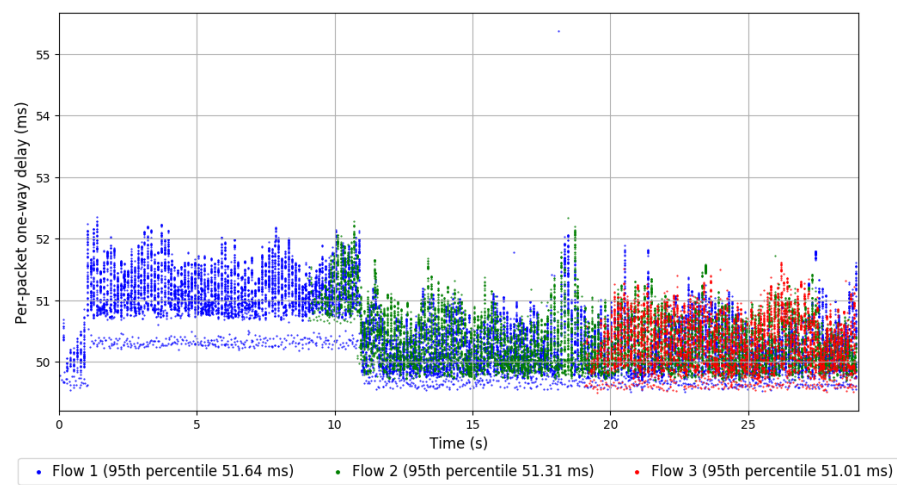
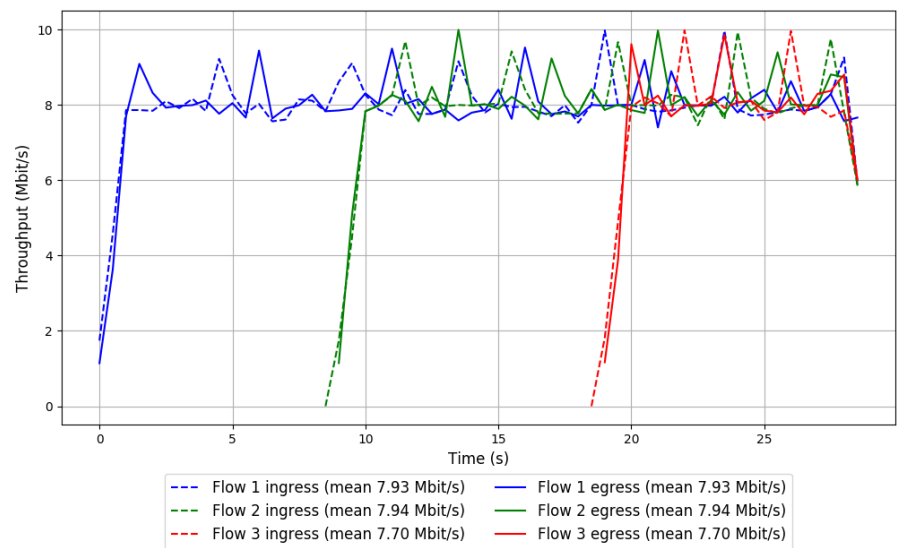


```
Run 1: Statistics of Sprout

Start at: 2017-12-06 05:43:22
End at: 2017-12-06 05:43:52

# Below is generated by plot.py at 2017-12-06 09:23:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 16.04 Mbit/s
95th percentile per-packet one-way delay: 51.514 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.93 Mbit/s
95th percentile per-packet one-way delay: 51.636 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 7.94 Mbit/s
95th percentile per-packet one-way delay: 51.307 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 7.70 Mbit/s
95th percentile per-packet one-way delay: 51.014 ms
Loss rate: 0.00%
```

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2017-12-06 05:55:30

End at: 2017-12-06 05:56:00

Below is generated by plot.py at 2017-12-06 09:23:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.51 Mbit/s

95th percentile per-packet one-way delay: 50.024 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 7.81 Mbit/s

95th percentile per-packet one-way delay: 50.098 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 7.80 Mbit/s

95th percentile per-packet one-way delay: 50.002 ms

Loss rate: 0.00%

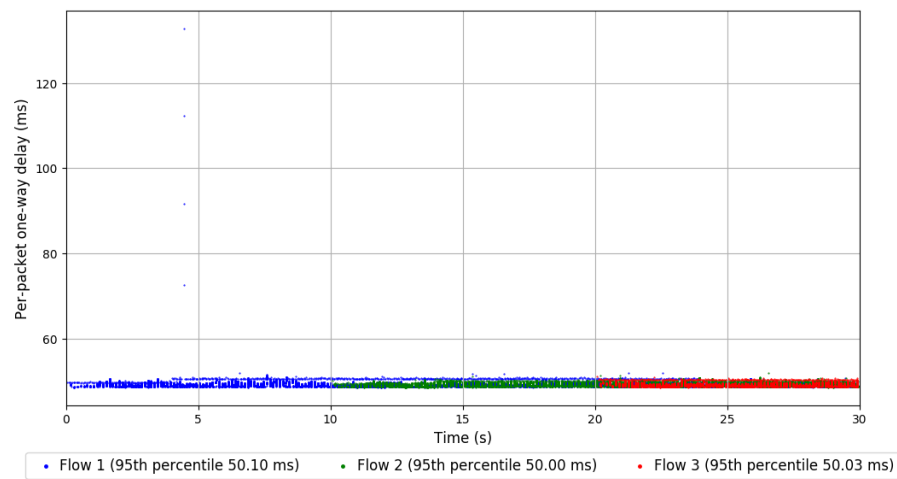
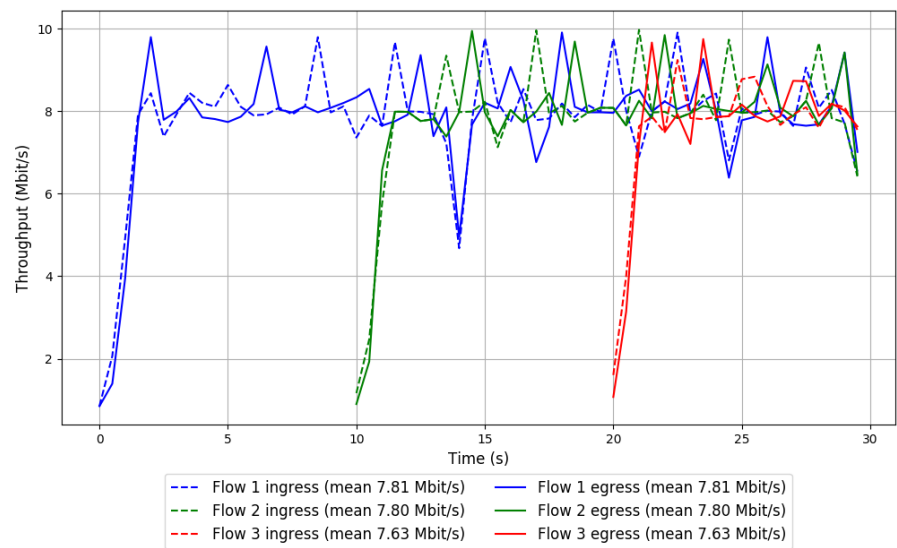
-- Flow 3:

Average throughput: 7.63 Mbit/s

95th percentile per-packet one-way delay: 50.026 ms

Loss rate: 0.00%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2017-12-06 06:07:44

End at: 2017-12-06 06:08:14

Below is generated by plot.py at 2017-12-06 09:23:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.78 Mbit/s

95th percentile per-packet one-way delay: 49.950 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 8.00 Mbit/s

95th percentile per-packet one-way delay: 50.019 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 7.84 Mbit/s

95th percentile per-packet one-way delay: 49.840 ms

Loss rate: 0.00%

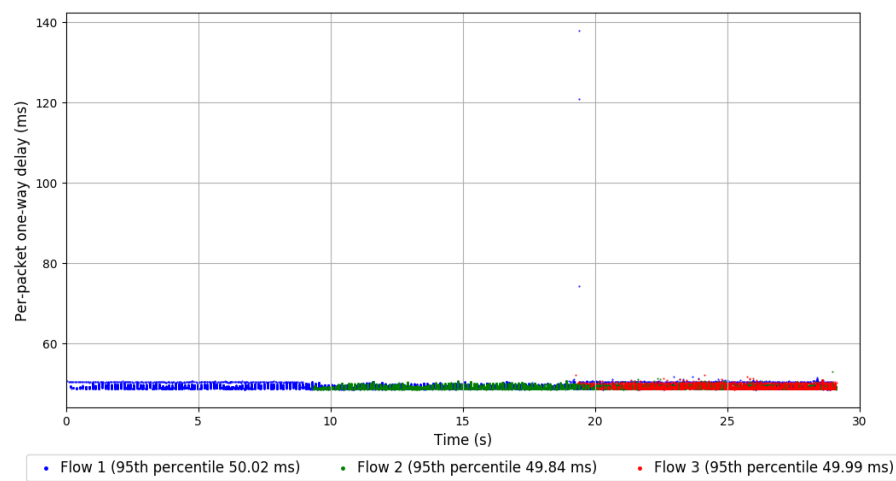
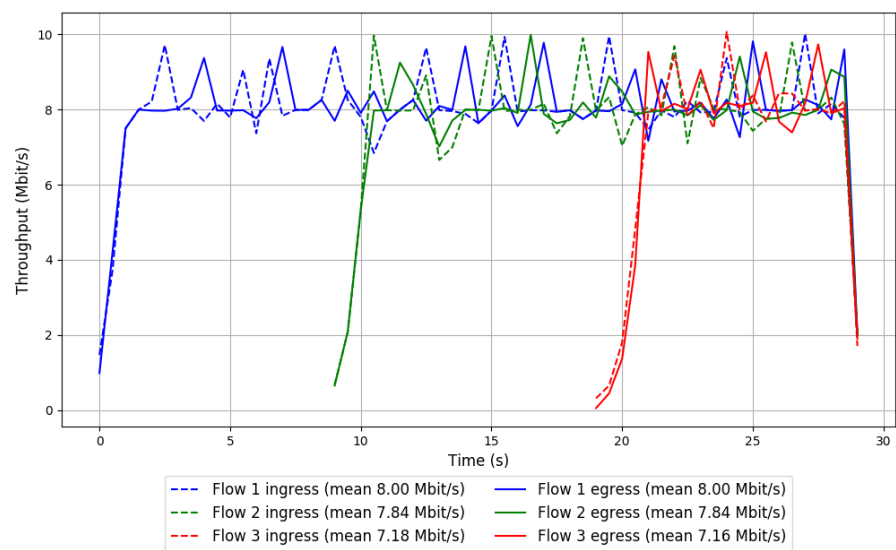
-- Flow 3:

Average throughput: 7.16 Mbit/s

95th percentile per-packet one-way delay: 49.995 ms

Loss rate: 0.18%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2017-12-06 06:20:02

End at: 2017-12-06 06:20:32

Below is generated by plot.py at 2017-12-06 09:23:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.85 Mbit/s

95th percentile per-packet one-way delay: 49.870 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 8.03 Mbit/s

95th percentile per-packet one-way delay: 49.852 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 7.85 Mbit/s

95th percentile per-packet one-way delay: 49.969 ms

Loss rate: 0.13%

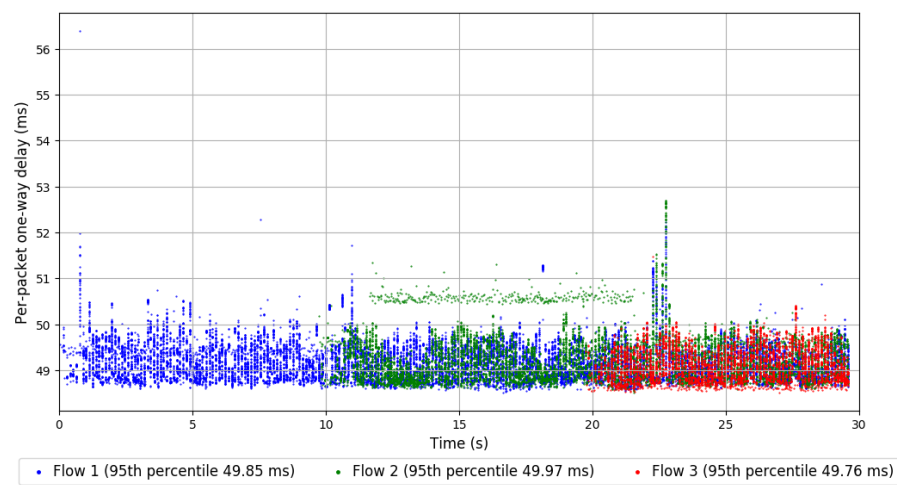
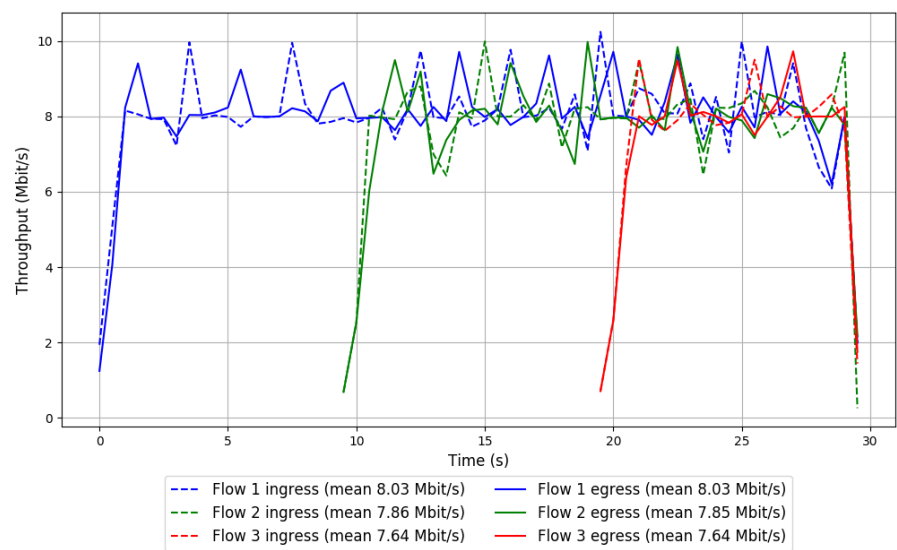
-- Flow 3:

Average throughput: 7.64 Mbit/s

95th percentile per-packet one-way delay: 49.758 ms

Loss rate: 0.00%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2017-12-06 06:32:13

End at: 2017-12-06 06:32:43

Below is generated by plot.py at 2017-12-06 09:23:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 17.15 Mbit/s

95th percentile per-packet one-way delay: 50.031 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 7.99 Mbit/s

95th percentile per-packet one-way delay: 49.974 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 7.86 Mbit/s

95th percentile per-packet one-way delay: 50.016 ms

Loss rate: 0.00%

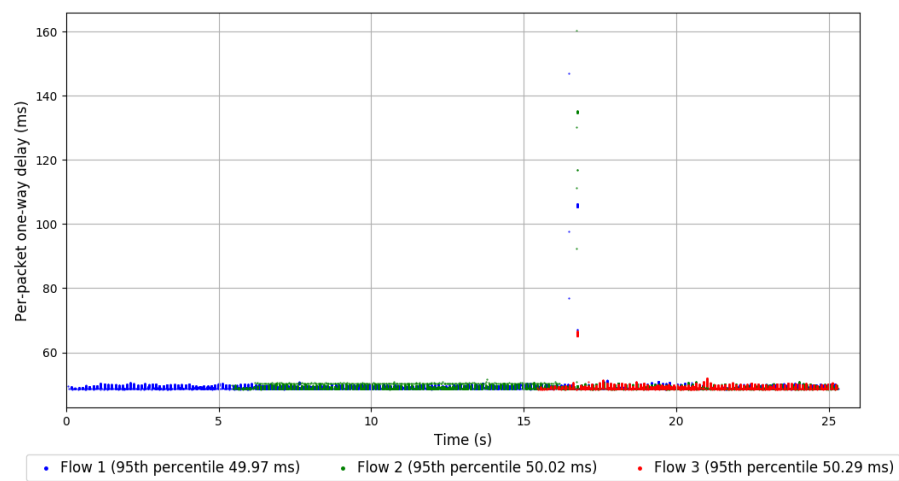
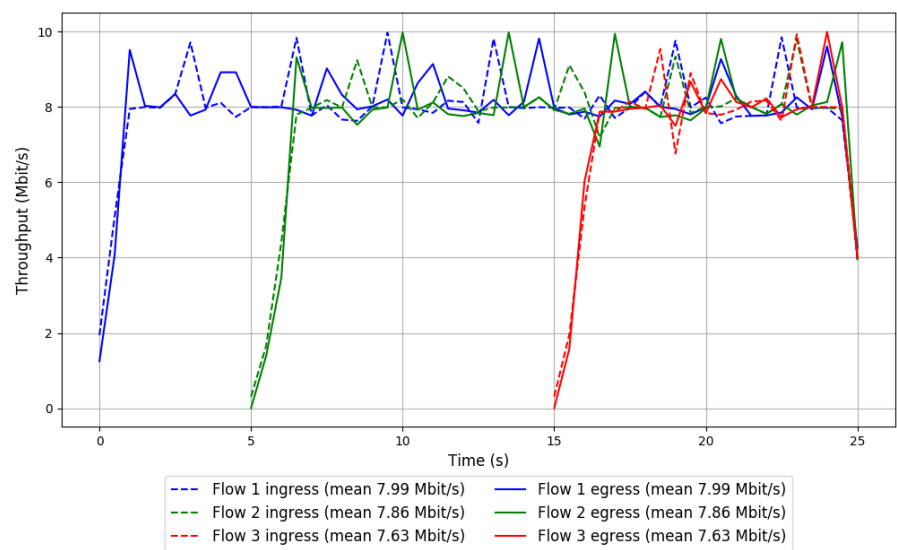
-- Flow 3:

Average throughput: 7.63 Mbit/s

95th percentile per-packet one-way delay: 50.288 ms

Loss rate: 0.00%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2017-12-06 06:44:38

End at: 2017-12-06 06:45:08

Below is generated by plot.py at 2017-12-06 09:23:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.54 Mbit/s

95th percentile per-packet one-way delay: 50.011 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 7.90 Mbit/s

95th percentile per-packet one-way delay: 50.019 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 7.90 Mbit/s

95th percentile per-packet one-way delay: 50.073 ms

Loss rate: 0.00%

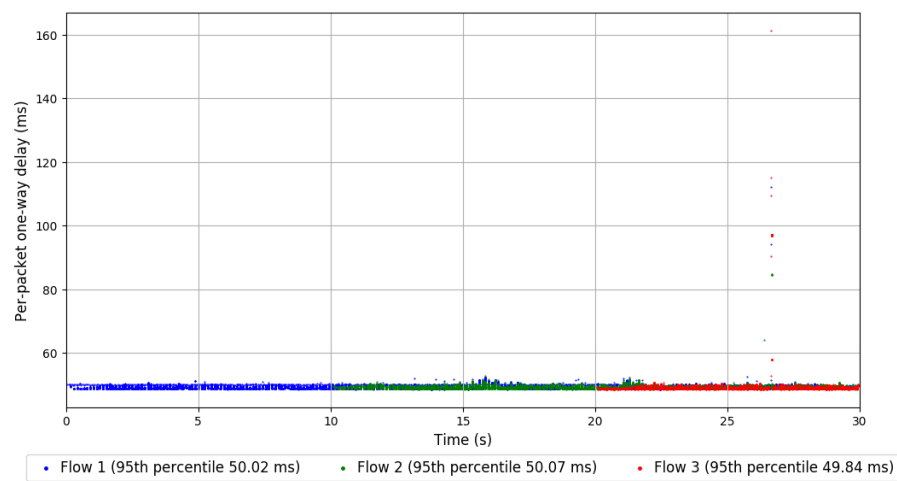
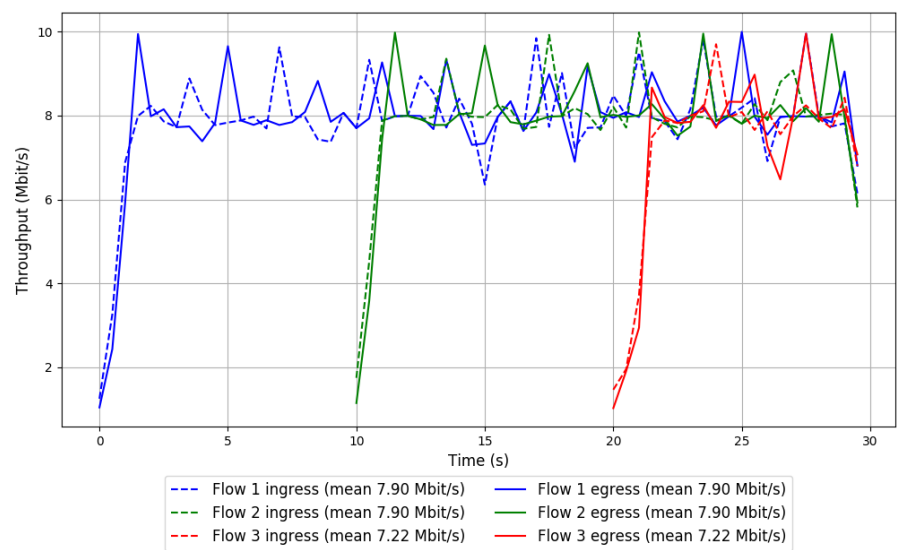
-- Flow 3:

Average throughput: 7.22 Mbit/s

95th percentile per-packet one-way delay: 49.839 ms

Loss rate: 0.00%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2017-12-06 06:56:44

End at: 2017-12-06 06:57:14

Below is generated by plot.py at 2017-12-06 09:23:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.72 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 8.01 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 7.82 Mbit/s

95th percentile per-packet one-way delay: 50.943 ms

Loss rate: 0.00%

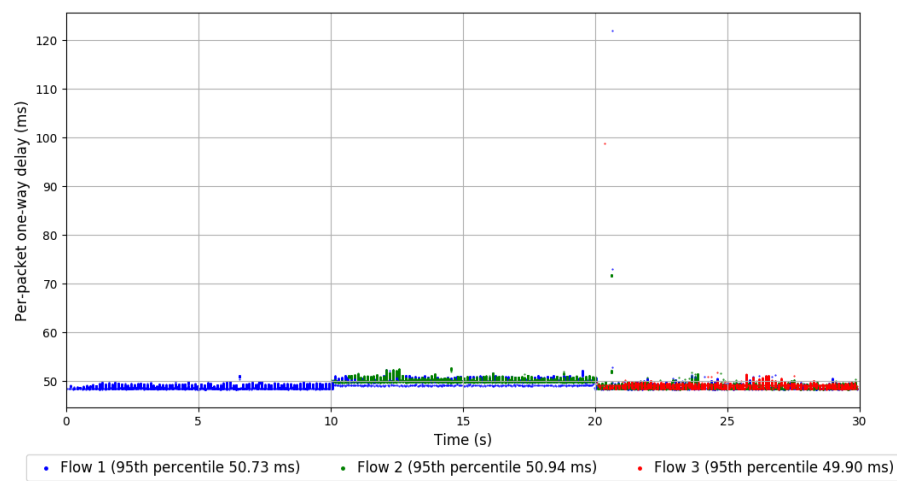
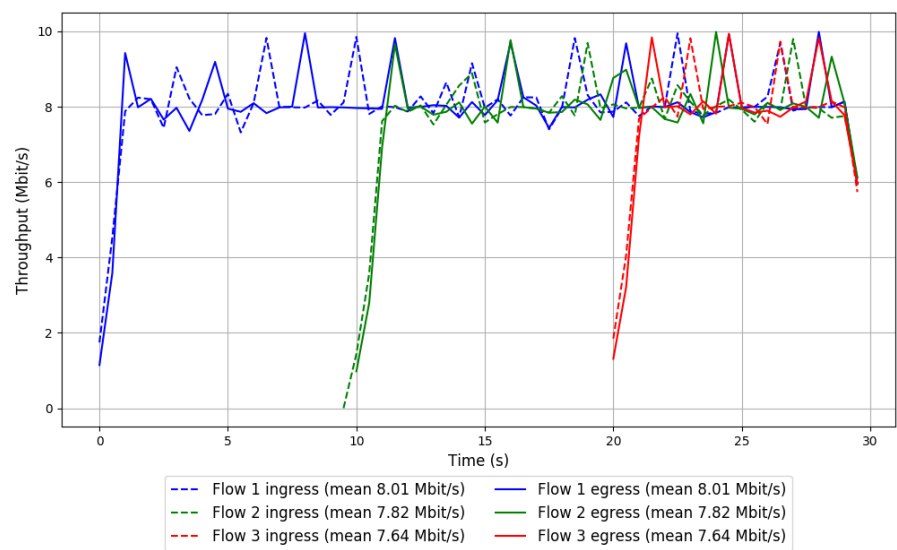
-- Flow 3:

Average throughput: 7.64 Mbit/s

95th percentile per-packet one-way delay: 49.899 ms

Loss rate: 0.00%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2017-12-06 07:08:55

End at: 2017-12-06 07:09:25

Below is generated by plot.py at 2017-12-06 09:23:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.36 Mbit/s

95th percentile per-packet one-way delay: 50.864 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 7.87 Mbit/s

95th percentile per-packet one-way delay: 50.811 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 7.66 Mbit/s

95th percentile per-packet one-way delay: 50.985 ms

Loss rate: 0.00%

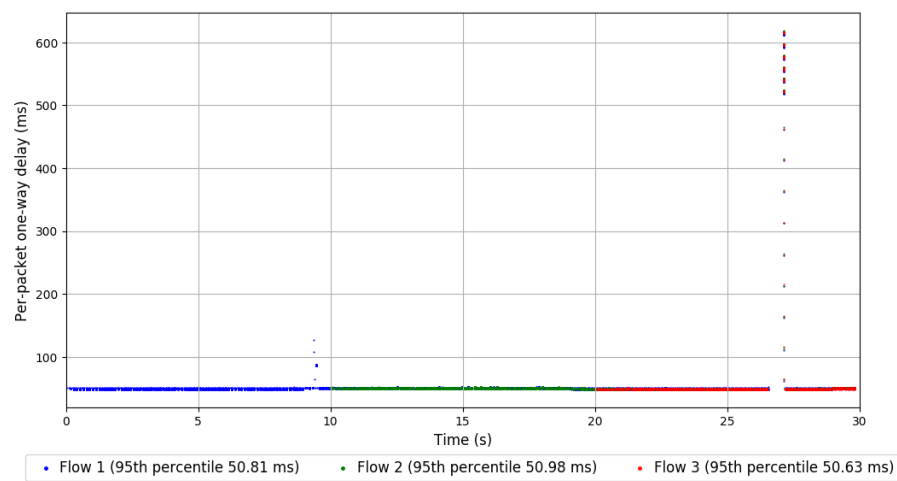
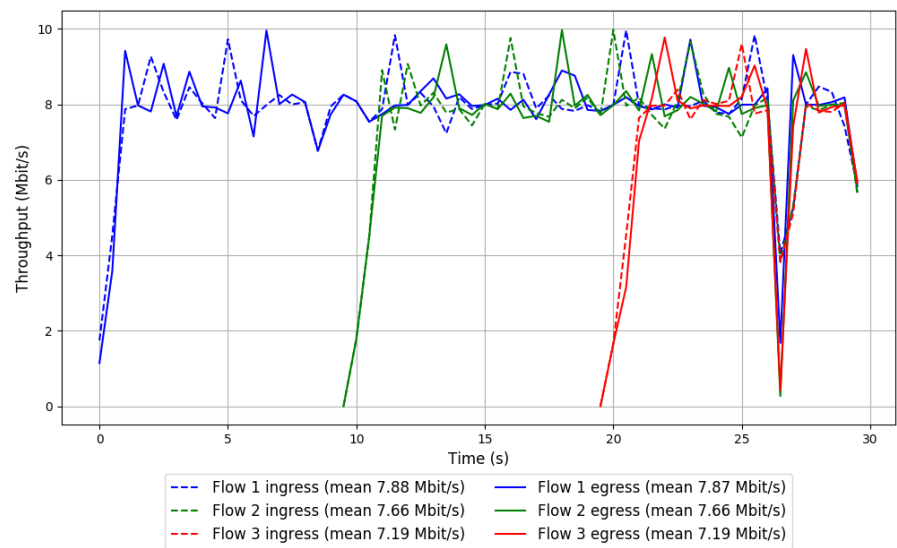
-- Flow 3:

Average throughput: 7.19 Mbit/s

95th percentile per-packet one-way delay: 50.634 ms

Loss rate: 0.00%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2017-12-06 07:21:04

End at: 2017-12-06 07:21:34

Below is generated by plot.py at 2017-12-06 09:23:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.49 Mbit/s

95th percentile per-packet one-way delay: 50.690 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 7.93 Mbit/s

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

Loss rate: 0.04%

-- Flow 2:

Average throughput: 7.76 Mbit/s

95th percentile per-packet one-way delay: 50.625 ms

Loss rate: 0.00%

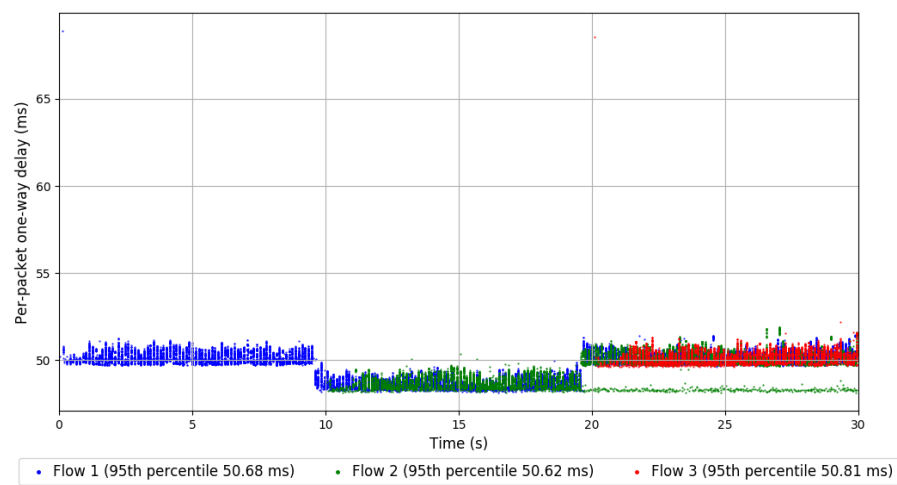
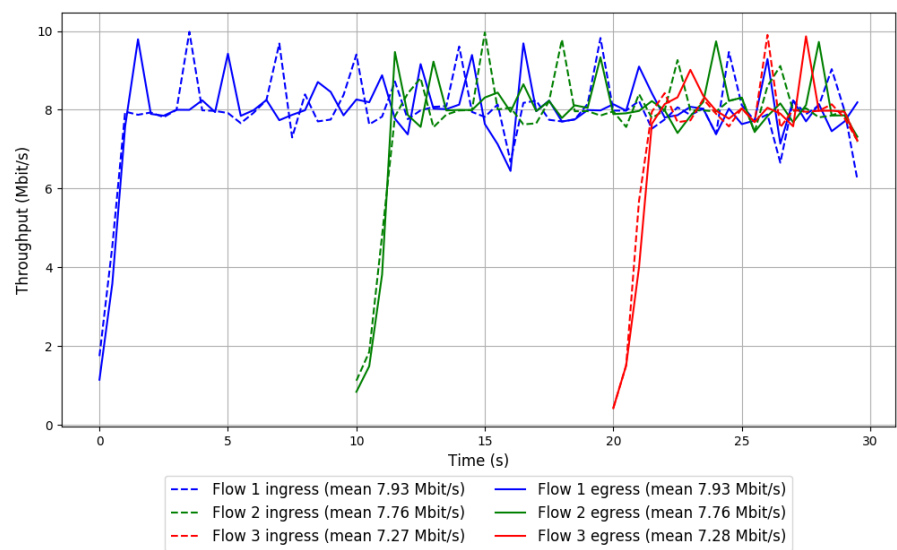
-- Flow 3:

Average throughput: 7.28 Mbit/s

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

Loss rate: 0.00%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2017-12-06 07:33:16

End at: 2017-12-06 07:33:46

Below is generated by plot.py at 2017-12-06 09:23:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.60 Mbit/s

95th percentile per-packet one-way delay: 50.667 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 7.82 Mbit/s

95th percentile per-packet one-way delay: 50.736 ms

Loss rate: 0.11%

-- Flow 2:

Average throughput: 7.90 Mbit/s

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

Loss rate: 0.00%

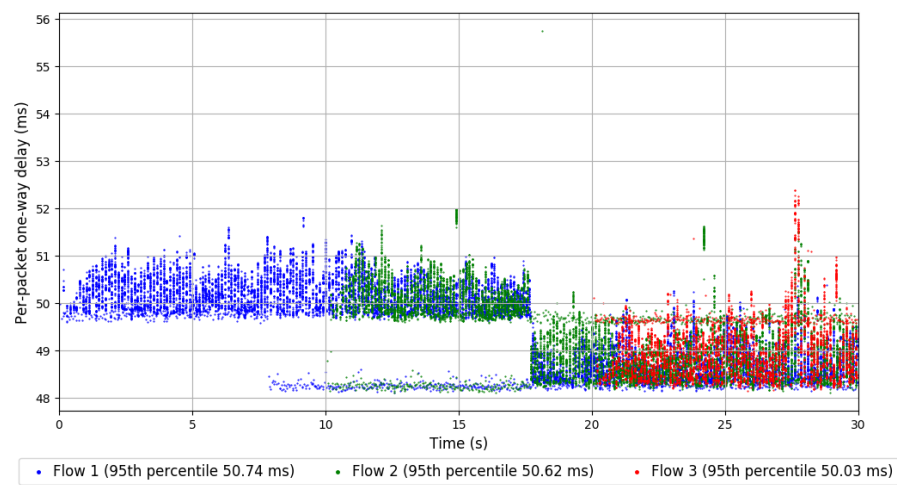
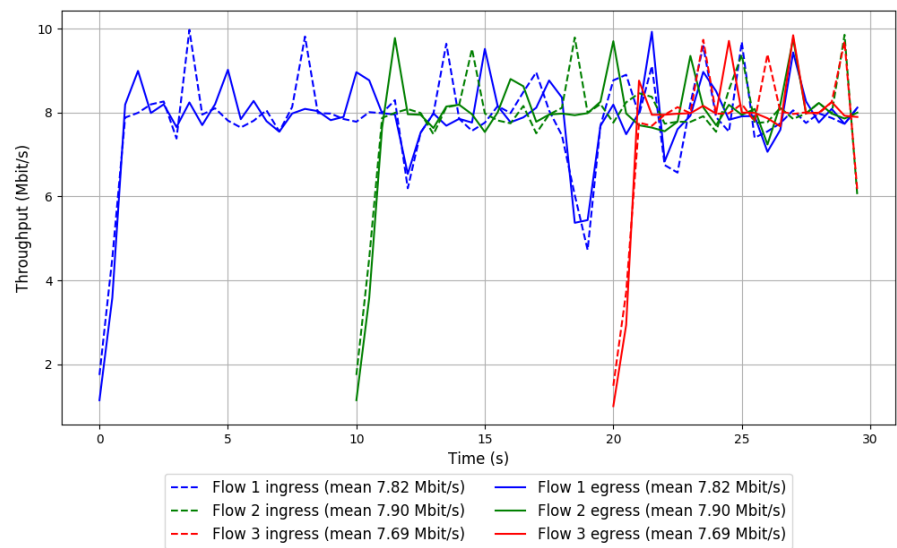
-- Flow 3:

Average throughput: 7.69 Mbit/s

95th percentile per-packet one-way delay: 50.028 ms

Loss rate: 0.00%

Run 10: Report of Sprout — Data Link

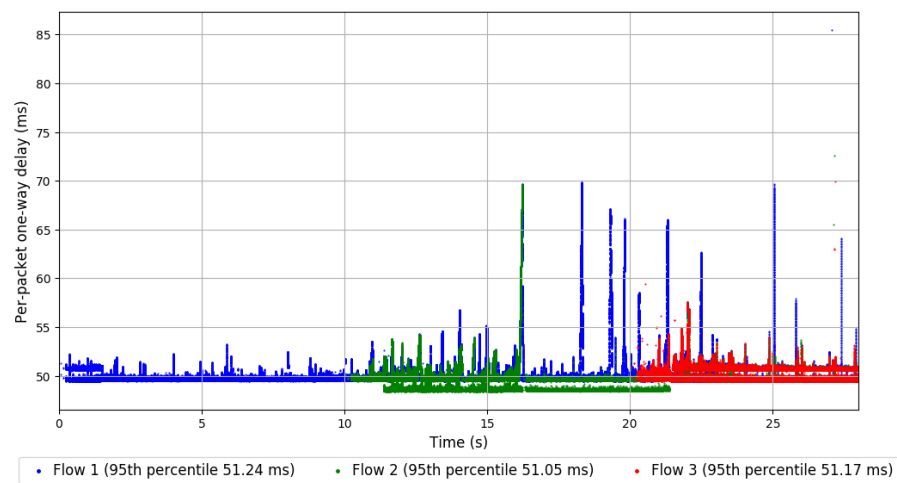
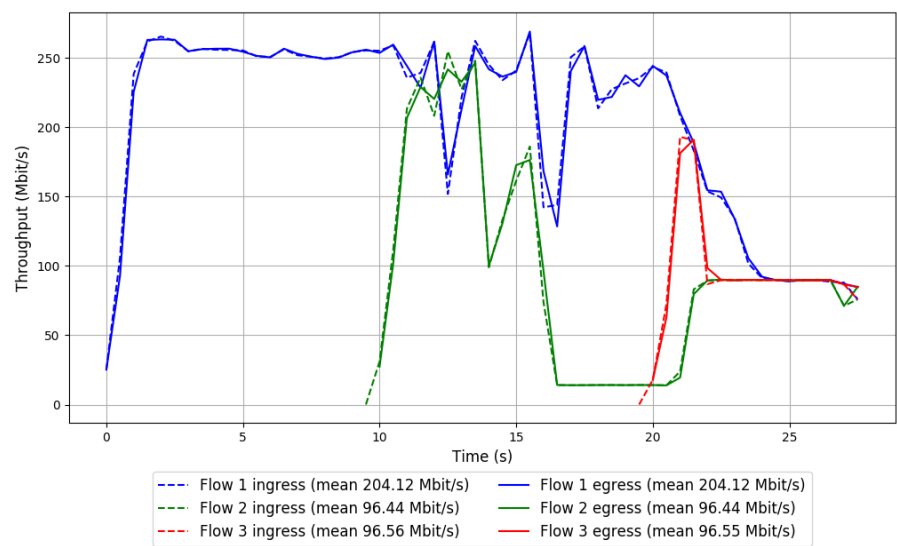


```
Run 1: Statistics of TaoVA-100x

Start at: 2017-12-06 05:34:10
End at: 2017-12-06 05:34:40

# Below is generated by plot.py at 2017-12-06 09:29:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 293.50 Mbit/s
95th percentile per-packet one-way delay: 51.175 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 204.12 Mbit/s
95th percentile per-packet one-way delay: 51.242 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 96.44 Mbit/s
95th percentile per-packet one-way delay: 51.054 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 96.55 Mbit/s
95th percentile per-packet one-way delay: 51.168 ms
Loss rate: 0.00%
```


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

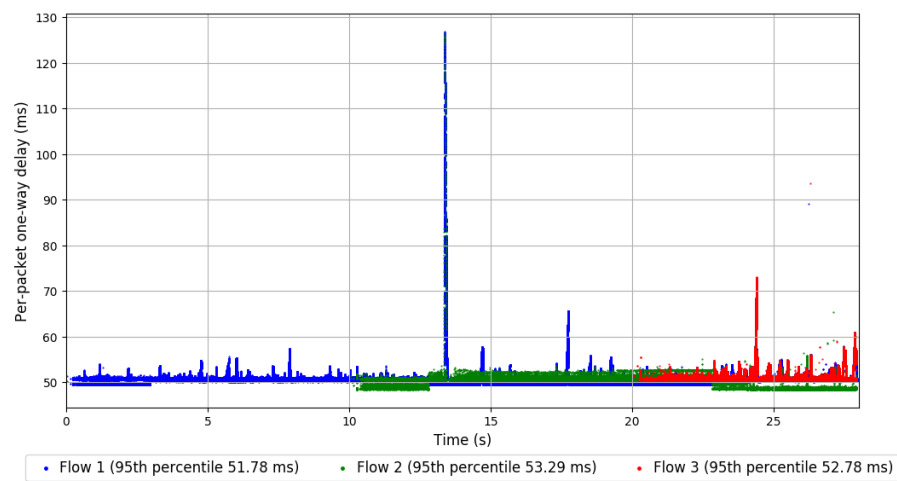
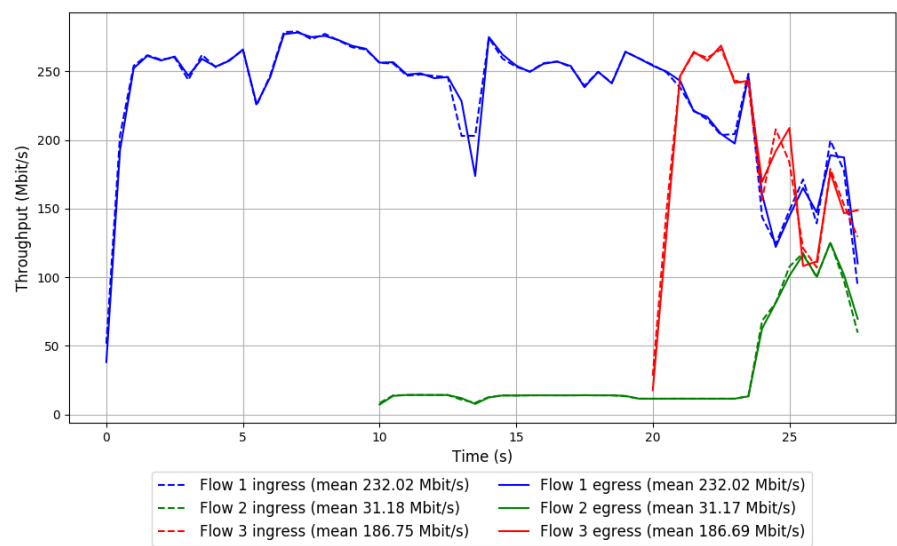


```
Run 2: Statistics of TaoVA-100x

Start at: 2017-12-06 05:46:19
End at: 2017-12-06 05:46:49

# Below is generated by plot.py at 2017-12-06 09:29:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 304.50 Mbit/s
95th percentile per-packet one-way delay: 52.129 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 232.02 Mbit/s
95th percentile per-packet one-way delay: 51.777 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 31.17 Mbit/s
95th percentile per-packet one-way delay: 53.290 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 186.69 Mbit/s
95th percentile per-packet one-way delay: 52.780 ms
Loss rate: 0.00%
```

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

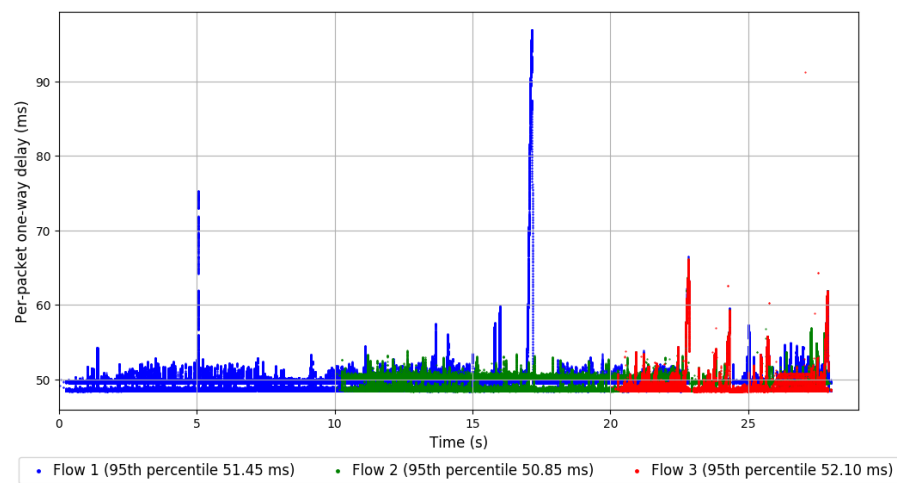
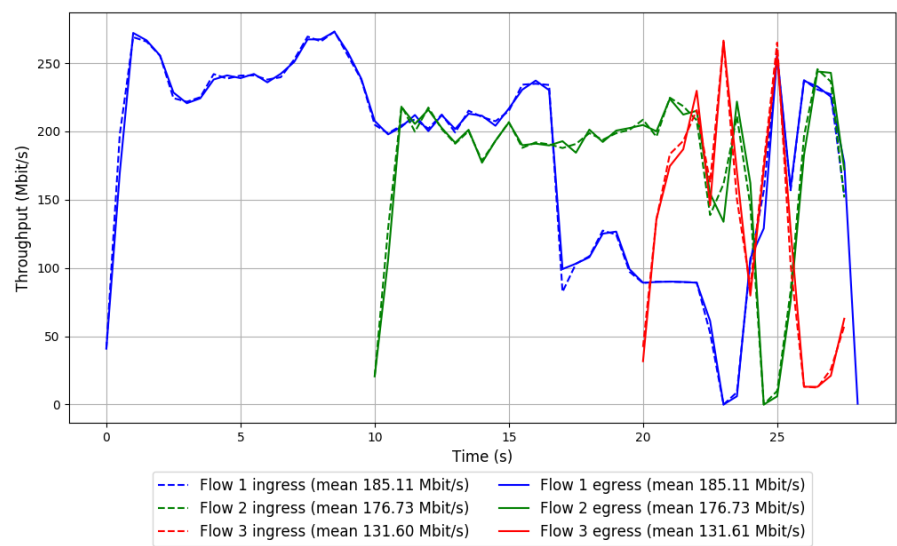


```
Run 3: Statistics of TaoVA-100x

Start at: 2017-12-06 05:58:29
End at: 2017-12-06 05:58:59

# Below is generated by plot.py at 2017-12-06 09:30:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 335.73 Mbit/s
95th percentile per-packet one-way delay: 51.321 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 185.11 Mbit/s
95th percentile per-packet one-way delay: 51.455 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 176.73 Mbit/s
95th percentile per-packet one-way delay: 50.854 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 131.61 Mbit/s
95th percentile per-packet one-way delay: 52.098 ms
Loss rate: 0.00%
```

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

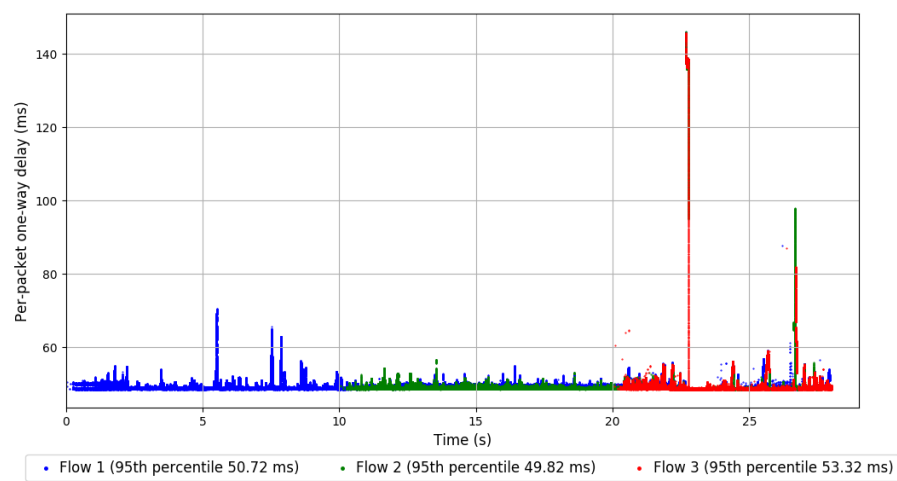
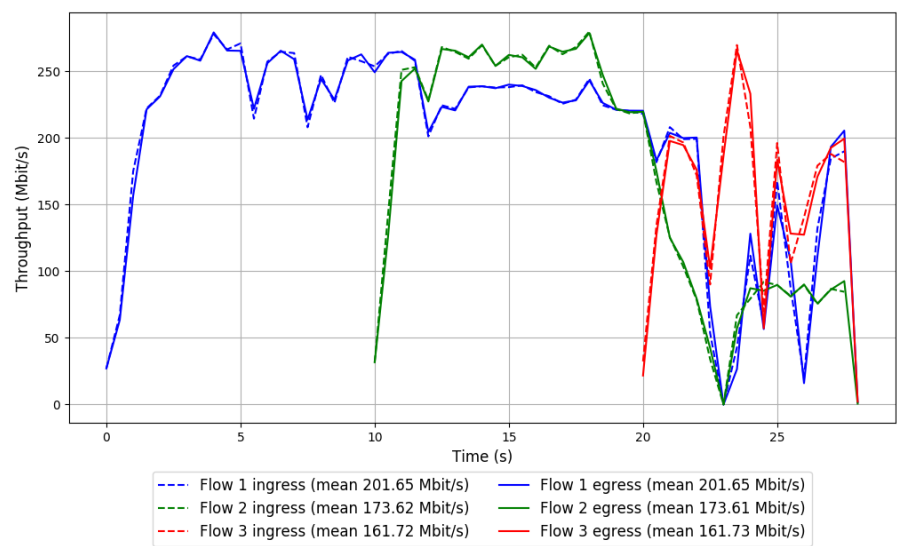


```
Run 4: Statistics of TaoVA-100x

Start at: 2017-12-06 06:10:40
End at: 2017-12-06 06:11:10

# Below is generated by plot.py at 2017-12-06 09:31:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 358.98 Mbit/s
95th percentile per-packet one-way delay: 50.580 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 201.65 Mbit/s
95th percentile per-packet one-way delay: 50.721 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 173.61 Mbit/s
95th percentile per-packet one-way delay: 49.819 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 161.73 Mbit/s
95th percentile per-packet one-way delay: 53.320 ms
Loss rate: 0.00%
```

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



Run 5: Statistics of TaoVA-100x

Start at: 2017-12-06 06:23:03

End at: 2017-12-06 06:23:33

Below is generated by plot.py at 2017-12-06 09:31:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 322.91 Mbit/s

95th percentile per-packet one-way delay: 53.799 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 200.23 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 144.34 Mbit/s

95th percentile per-packet one-way delay: 52.000 ms

Loss rate: 0.00%

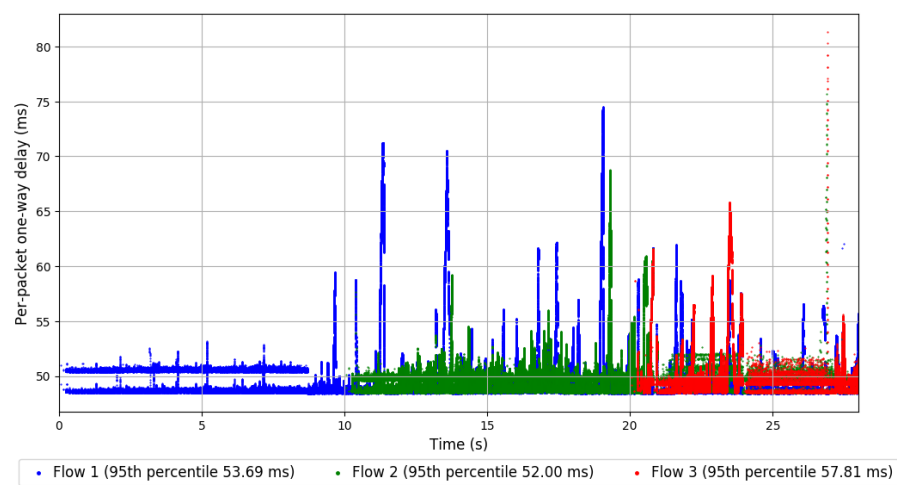
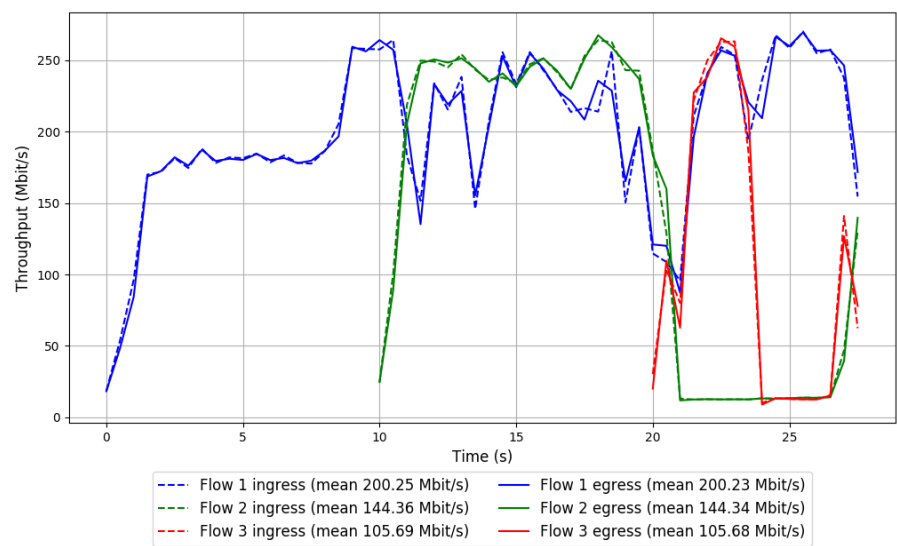
-- Flow 3:

Average throughput: 105.68 Mbit/s

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

Loss rate: 0.00%

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



Run 6: Statistics of TaoVA-100x

Start at: 2017-12-06 06:35:16

End at: 2017-12-06 06:35:46

Below is generated by plot.py at 2017-12-06 09:31:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 279.57 Mbit/s

95th percentile per-packet one-way delay: 52.241 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 189.98 Mbit/s

95th percentile per-packet one-way delay: 52.872 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 85.92 Mbit/s

95th percentile per-packet one-way delay: 52.383 ms

Loss rate: 0.00%

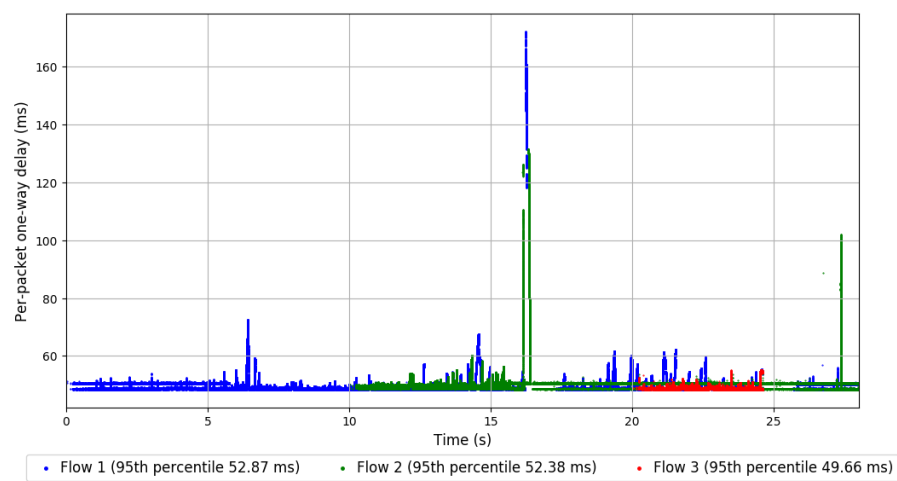
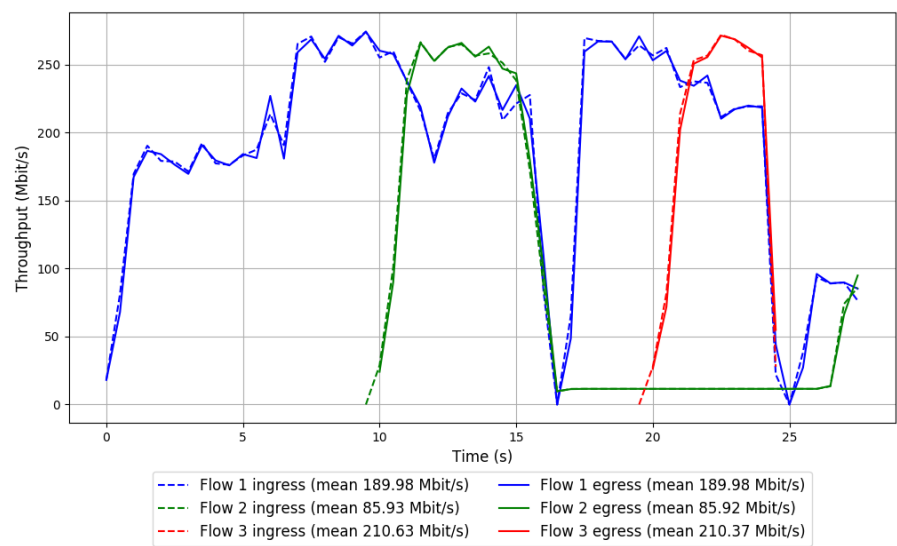
-- Flow 3:

Average throughput: 210.37 Mbit/s

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

Loss rate: 0.00%

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

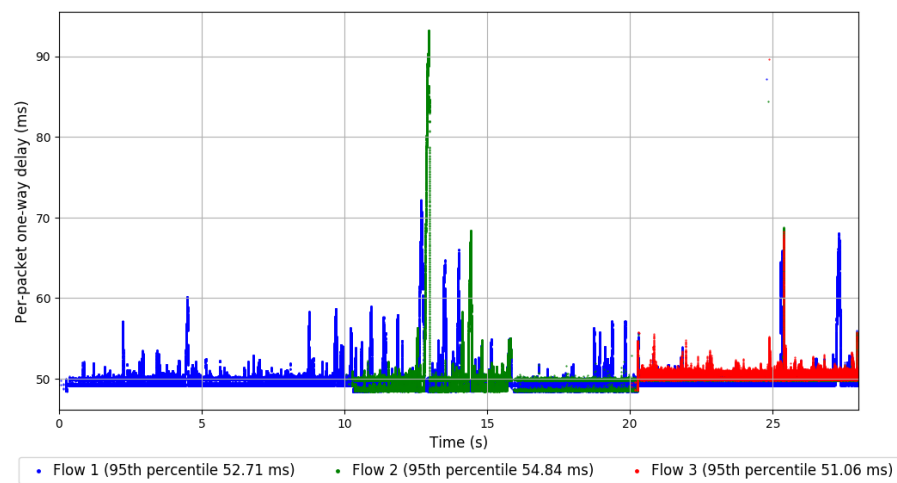
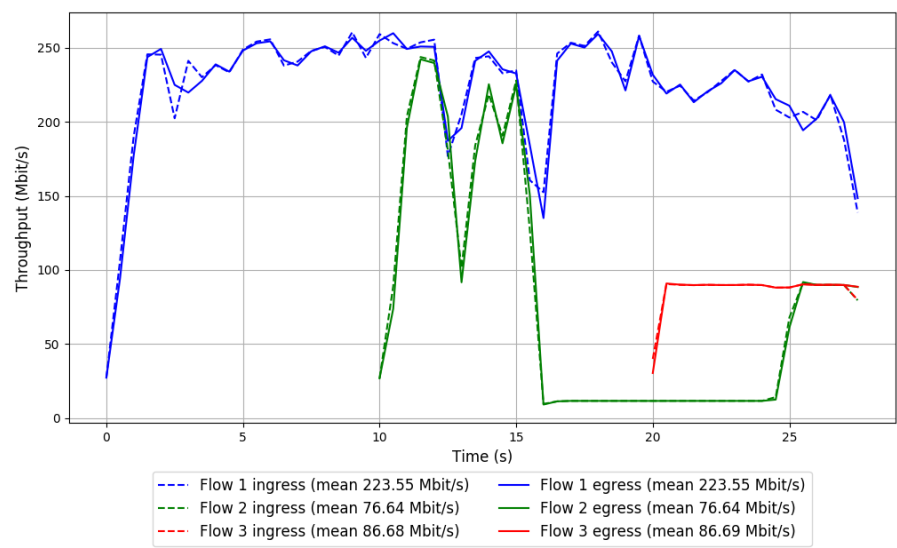


```
Run 7: Statistics of TaoVA-100x

Start at: 2017-12-06 06:47:32
End at: 2017-12-06 06:48:02

# Below is generated by plot.py at 2017-12-06 09:31:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 297.35 Mbit/s
95th percentile per-packet one-way delay: 52.727 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 223.55 Mbit/s
95th percentile per-packet one-way delay: 52.714 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 76.64 Mbit/s
95th percentile per-packet one-way delay: 54.836 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 86.69 Mbit/s
95th percentile per-packet one-way delay: 51.060 ms
Loss rate: 0.00%
```

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



Run 8: Statistics of TaoVA-100x

Start at: 2017-12-06 06:59:43

End at: 2017-12-06 07:00:13

Below is generated by plot.py at 2017-12-06 09:34:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 339.42 Mbit/s

95th percentile per-packet one-way delay: 52.450 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 201.42 Mbit/s

95th percentile per-packet one-way delay: 51.956 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 148.15 Mbit/s

95th percentile per-packet one-way delay: 52.057 ms

Loss rate: 0.00%

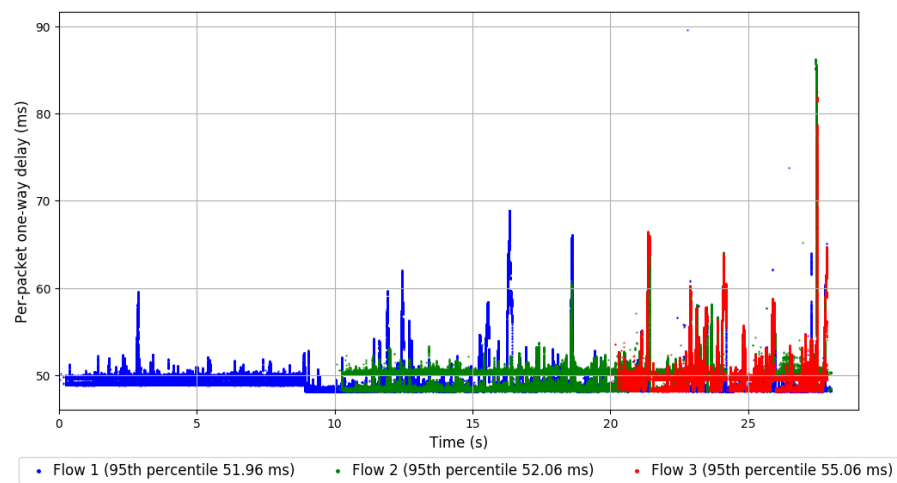
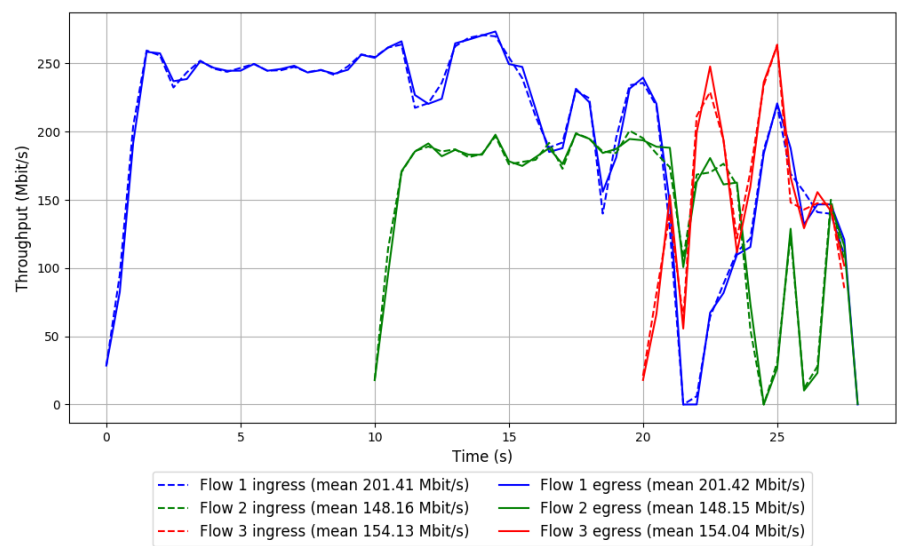
-- Flow 3:

Average throughput: 154.04 Mbit/s

95th percentile per-packet one-way delay: 55.056 ms

Loss rate: 0.00%

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



Run 9: Statistics of TaoVA-100x

Start at: 2017-12-06 07:11:46

End at: 2017-12-06 07:12:16

Below is generated by plot.py at 2017-12-06 09:38:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 333.04 Mbit/s

95th percentile per-packet one-way delay: 53.286 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 165.34 Mbit/s

95th percentile per-packet one-way delay: 50.040 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 162.29 Mbit/s

95th percentile per-packet one-way delay: 51.101 ms

Loss rate: 0.00%

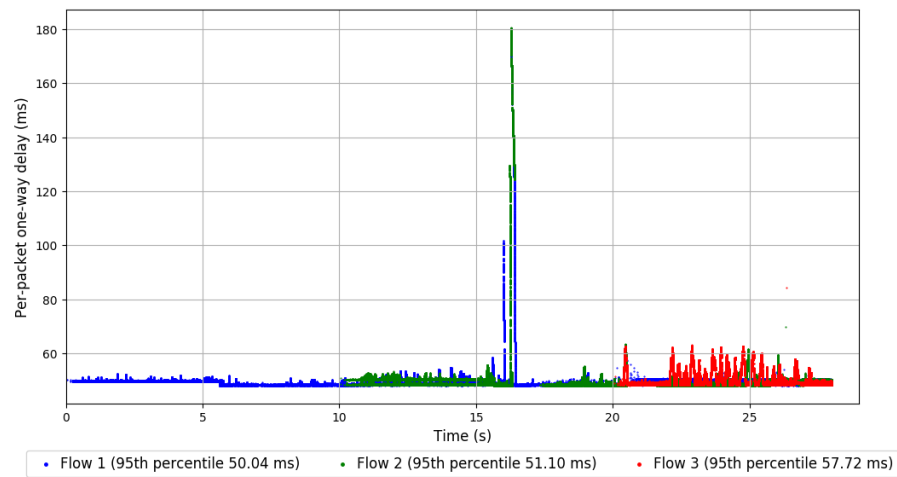
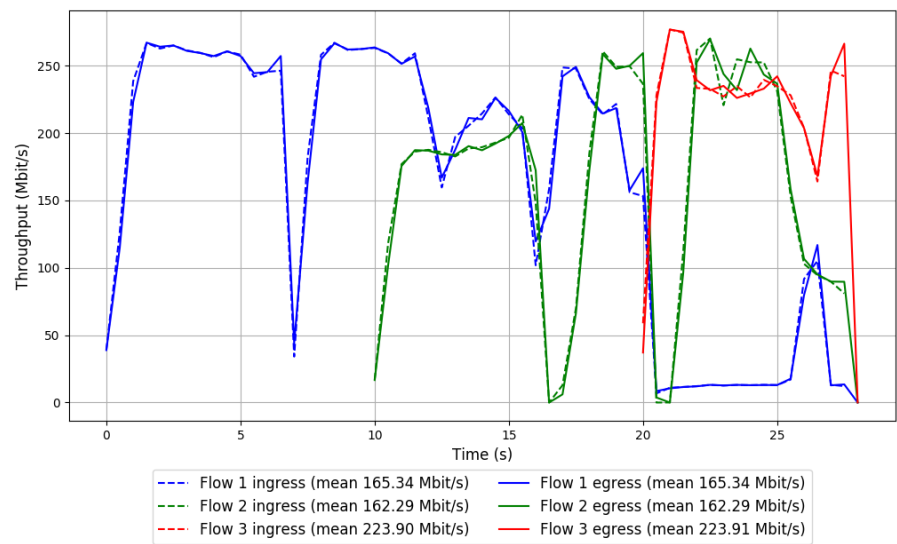
-- Flow 3:

Average throughput: 223.91 Mbit/s

95th percentile per-packet one-way delay: 57.723 ms

Loss rate: 0.00%

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

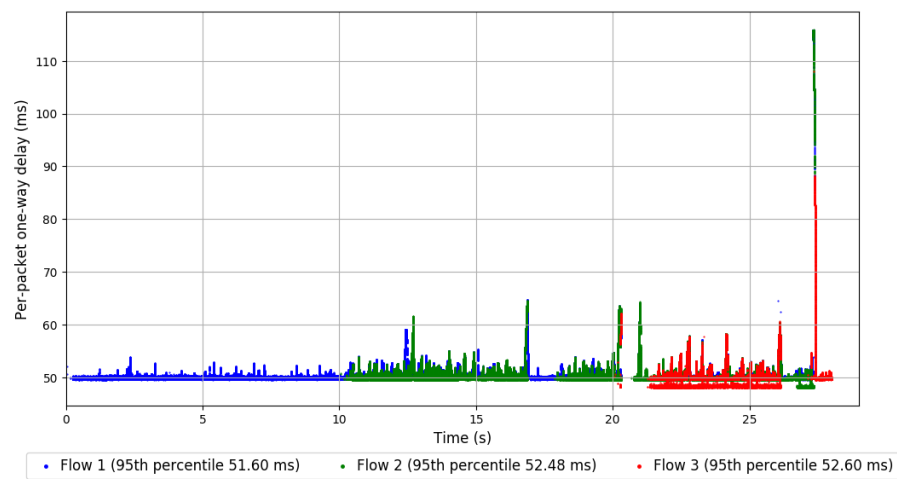
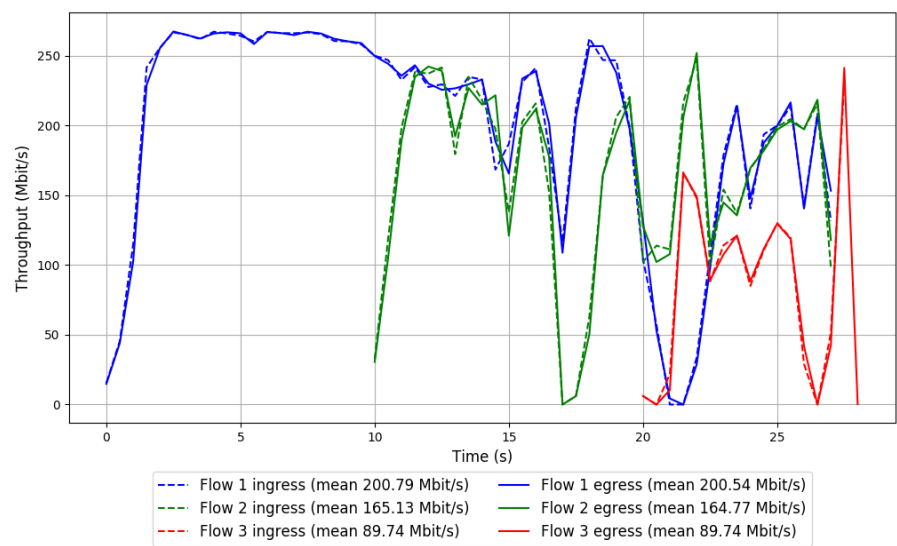


```
Run 10: Statistics of TaoVA-100x

Start at: 2017-12-06 07:24:05
End at: 2017-12-06 07:24:35

# Below is generated by plot.py at 2017-12-06 09:38:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 323.87 Mbit/s
95th percentile per-packet one-way delay: 51.942 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 200.54 Mbit/s
95th percentile per-packet one-way delay: 51.600 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 164.77 Mbit/s
95th percentile per-packet one-way delay: 52.477 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 89.74 Mbit/s
95th percentile per-packet one-way delay: 52.604 ms
Loss rate: 0.00%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2017-12-06 05:35:17

End at: 2017-12-06 05:35:47

Below is generated by plot.py at 2017-12-06 09:38:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 109.87 Mbit/s

95th percentile per-packet one-way delay: 60.083 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 35.72 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 42.73 Mbit/s

95th percentile per-packet one-way delay: 57.721 ms

Loss rate: 0.00%

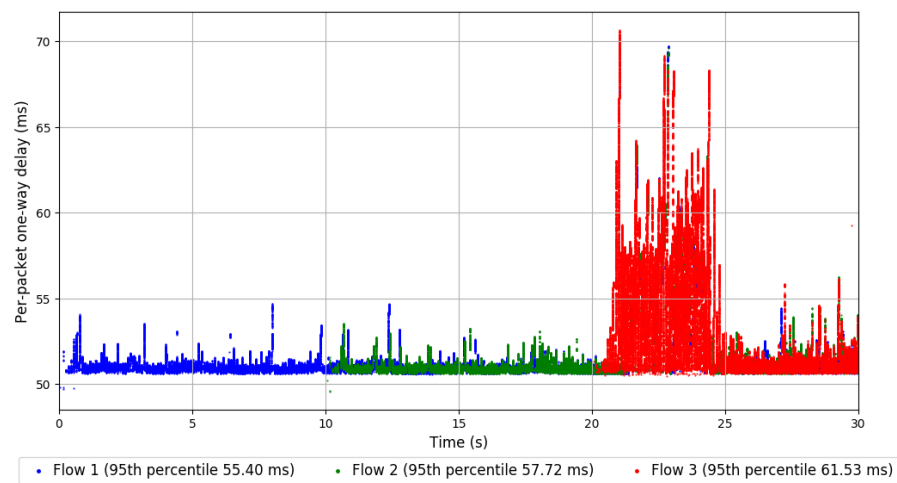
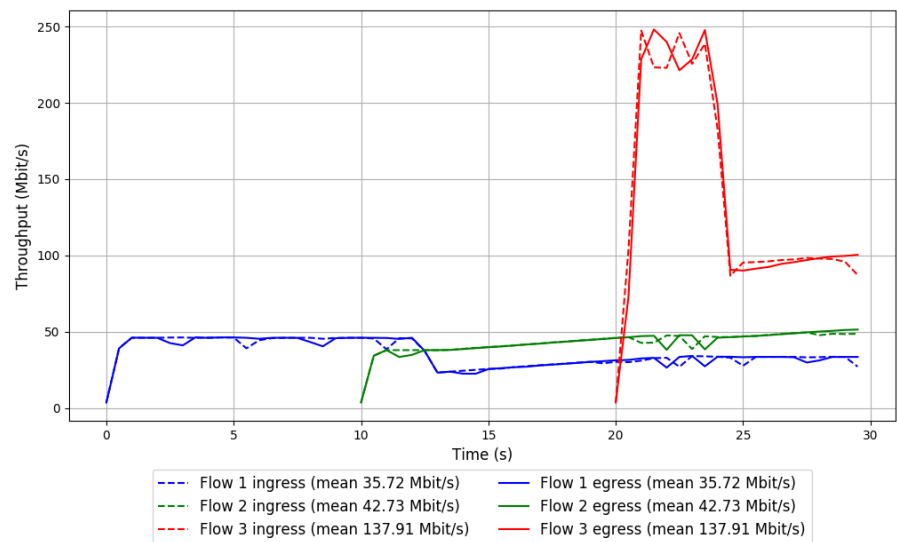
-- Flow 3:

Average throughput: 137.91 Mbit/s

95th percentile per-packet one-way delay: 61.535 ms

Loss rate: 0.00%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2017-12-06 05:47:26

End at: 2017-12-06 05:47:56

Below is generated by plot.py at 2017-12-06 09:38:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.04 Mbit/s

95th percentile per-packet one-way delay: 49.850 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 47.94 Mbit/s

95th percentile per-packet one-way delay: 49.998 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 12.47 Mbit/s

95th percentile per-packet one-way delay: 49.400 ms

Loss rate: 0.01%

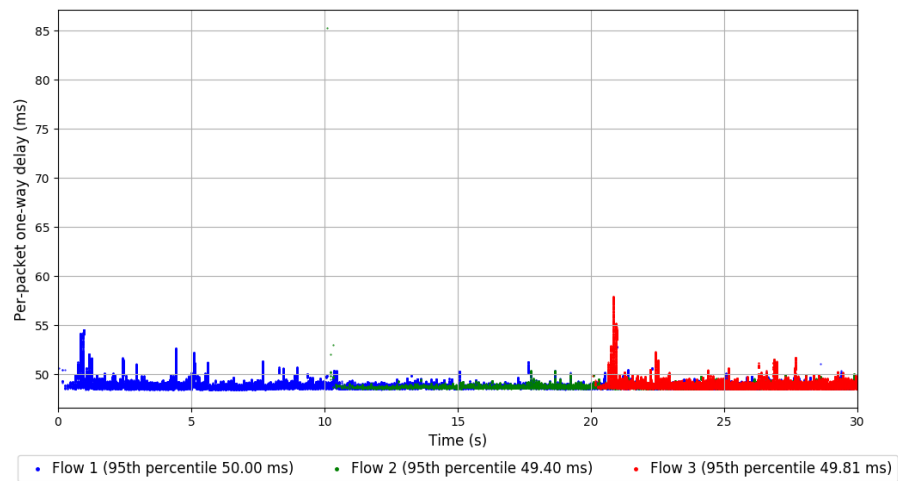
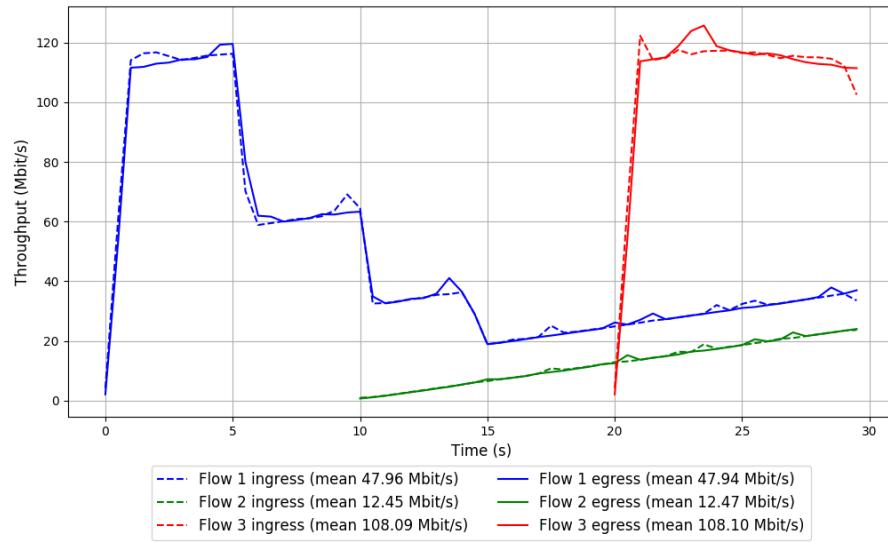
-- Flow 3:

Average throughput: 108.10 Mbit/s

95th percentile per-packet one-way delay: 49.811 ms

Loss rate: 0.00%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2017-12-06 05:59:39

End at: 2017-12-06 06:00:09

Below is generated by plot.py at 2017-12-06 09:38:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 179.35 Mbit/s

95th percentile per-packet one-way delay: 57.642 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 53.07 Mbit/s

95th percentile per-packet one-way delay: 56.541 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 135.34 Mbit/s

95th percentile per-packet one-way delay: 58.798 ms

Loss rate: 0.00%

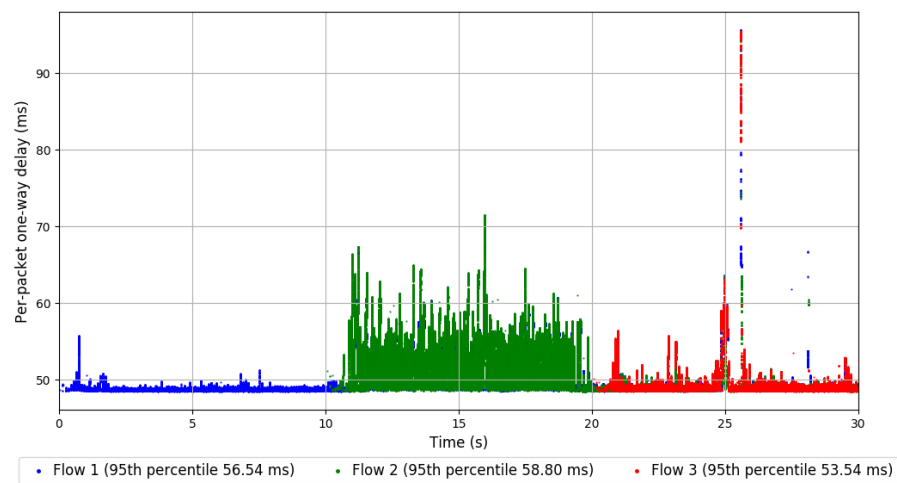
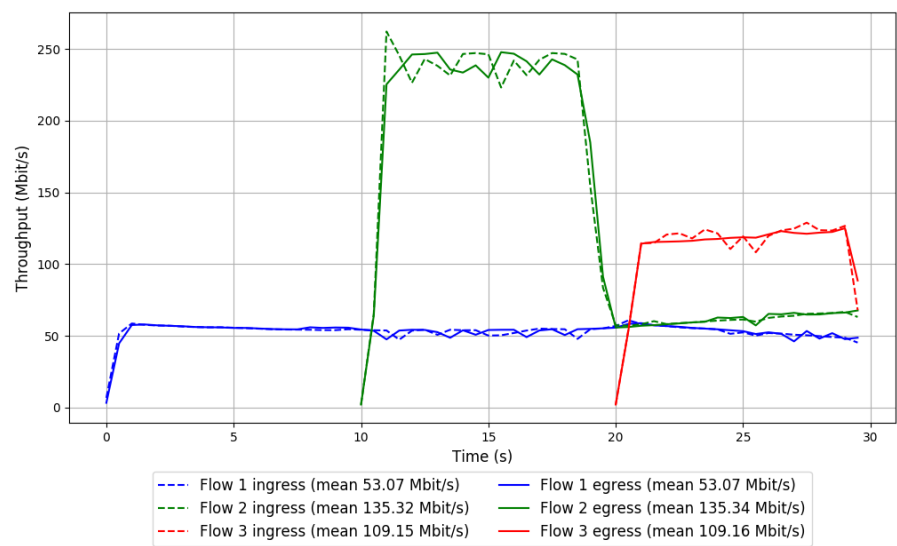
-- Flow 3:

Average throughput: 109.16 Mbit/s

95th percentile per-packet one-way delay: 53.538 ms

Loss rate: 0.00%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2017-12-06 06:11:52

End at: 2017-12-06 06:12:22

Below is generated by plot.py at 2017-12-06 09:38:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 235.60 Mbit/s

95th percentile per-packet one-way delay: 50.111 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 159.87 Mbit/s

95th percentile per-packet one-way delay: 49.972 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 110.45 Mbit/s

95th percentile per-packet one-way delay: 50.345 ms

Loss rate: 0.00%

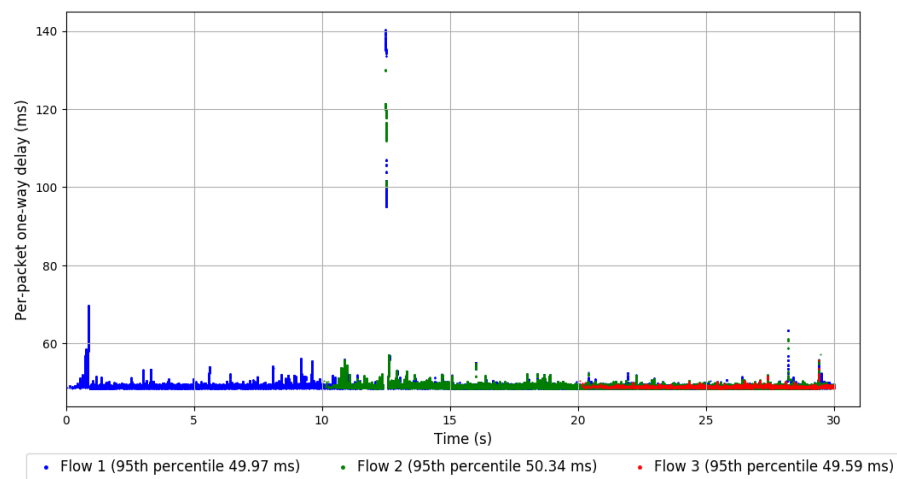
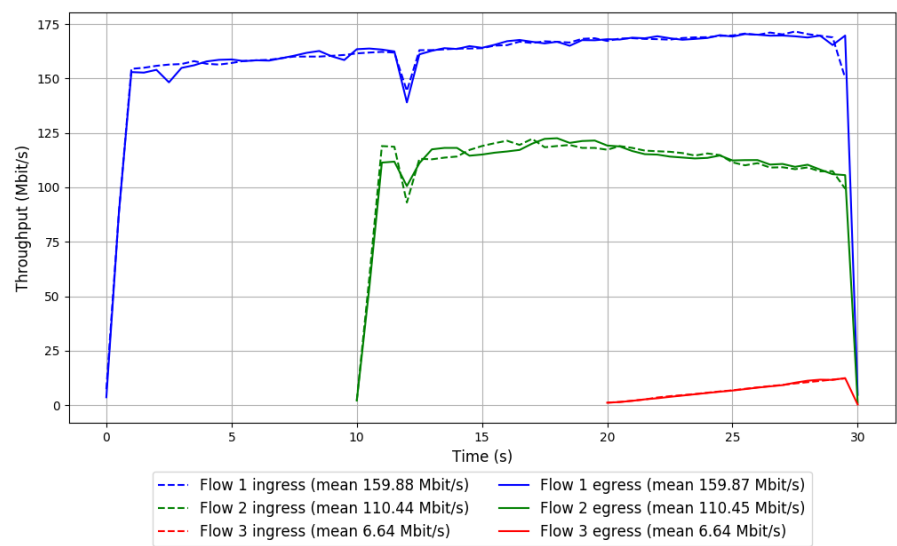
-- Flow 3:

Average throughput: 6.64 Mbit/s

95th percentile per-packet one-way delay: 49.595 ms

Loss rate: 0.02%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2017-12-06 06:24:12

End at: 2017-12-06 06:24:42

Below is generated by plot.py at 2017-12-06 09:38:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 102.36 Mbit/s

95th percentile per-packet one-way delay: 50.042 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 58.33 Mbit/s

95th percentile per-packet one-way delay: 49.773 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 11.58 Mbit/s

95th percentile per-packet one-way delay: 49.430 ms

Loss rate: 0.05%

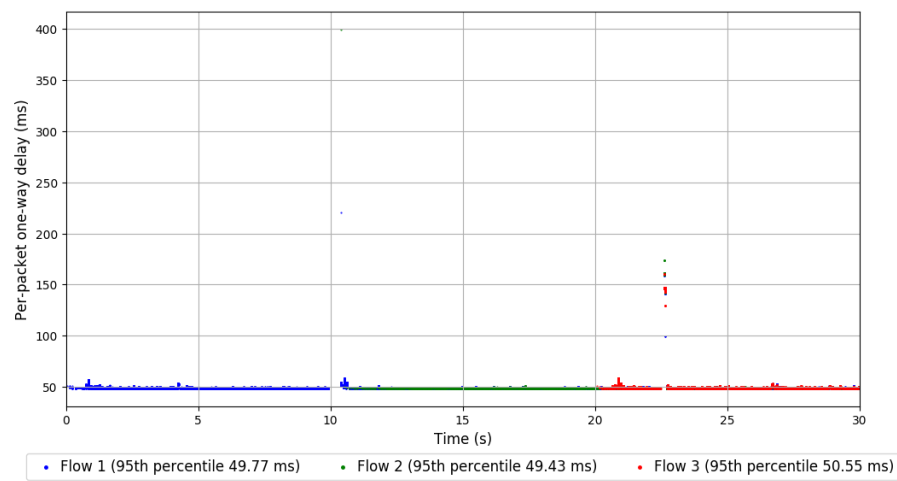
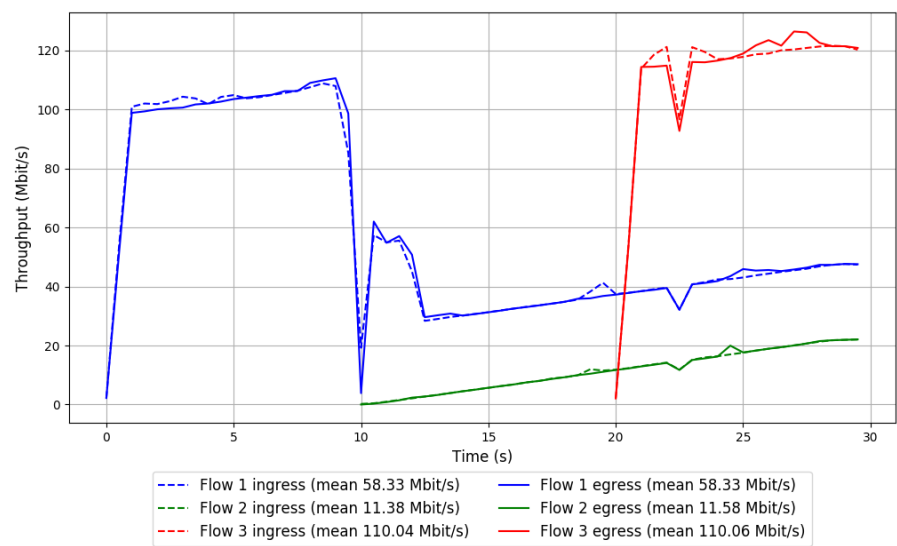
-- Flow 3:

Average throughput: 110.06 Mbit/s

95th percentile per-packet one-way delay: 50.545 ms

Loss rate: 0.00%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2017-12-06 06:36:22

End at: 2017-12-06 06:36:52

Below is generated by plot.py at 2017-12-06 09:38:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 240.81 Mbit/s

95th percentile per-packet one-way delay: 55.916 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 92.67 Mbit/s

95th percentile per-packet one-way delay: 51.533 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 118.38 Mbit/s

95th percentile per-packet one-way delay: 58.573 ms

Loss rate: 0.00%

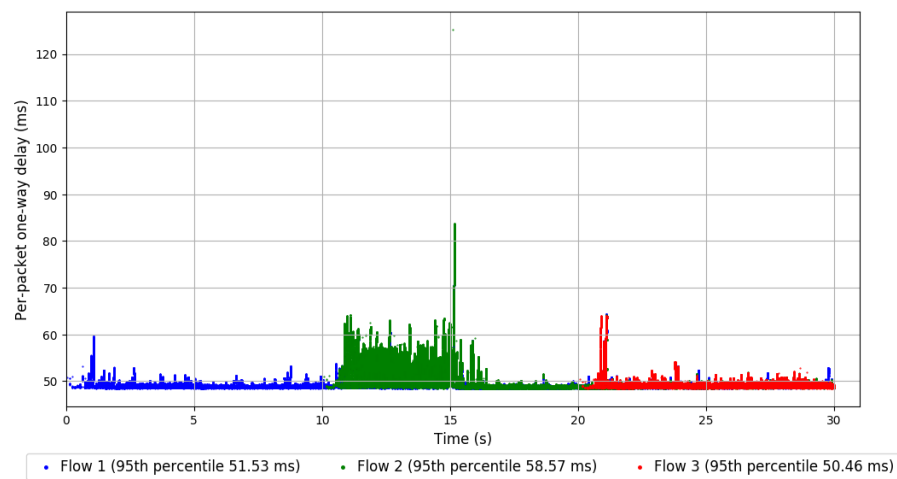
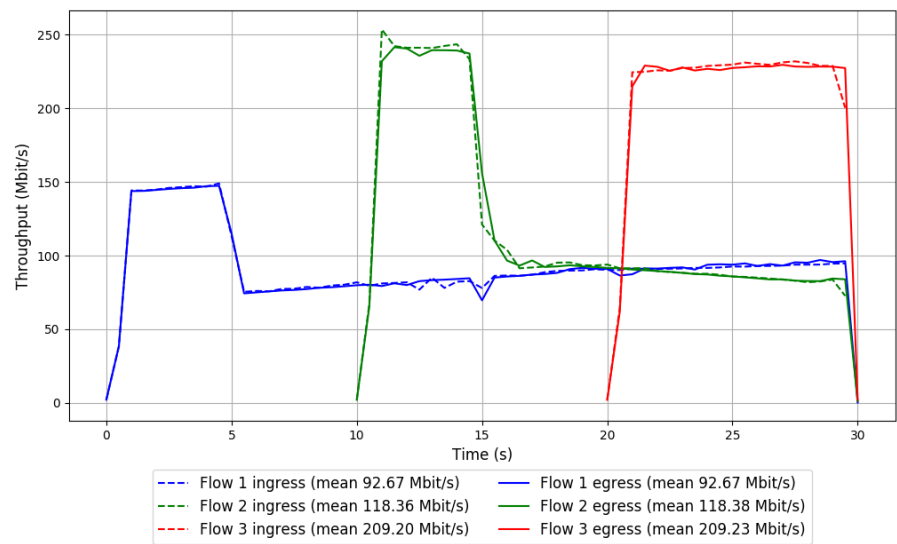
-- Flow 3:

Average throughput: 209.23 Mbit/s

95th percentile per-packet one-way delay: 50.459 ms

Loss rate: 0.00%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2017-12-06 06:48:39

End at: 2017-12-06 06:49:09

Below is generated by plot.py at 2017-12-06 09:38:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 145.97 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 87.74 Mbit/s

95th percentile per-packet one-way delay: 50.602 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 25.52 Mbit/s

95th percentile per-packet one-way delay: 50.503 ms

Loss rate: 0.01%

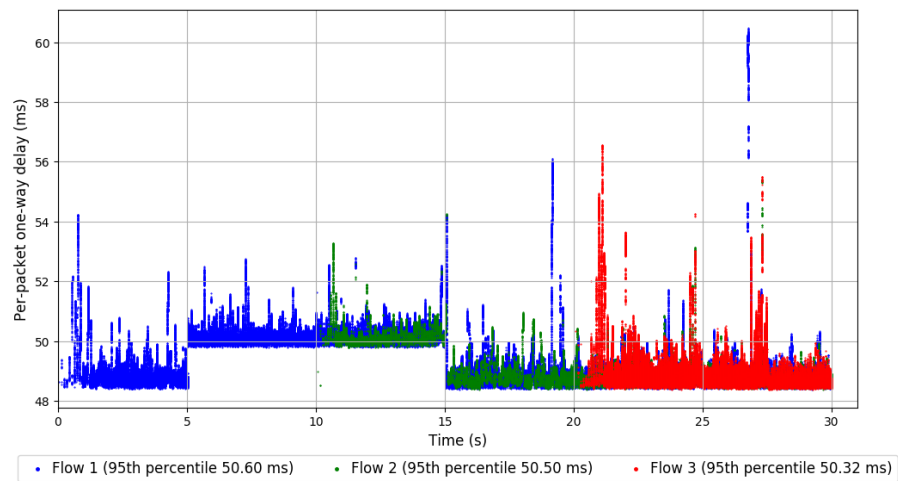
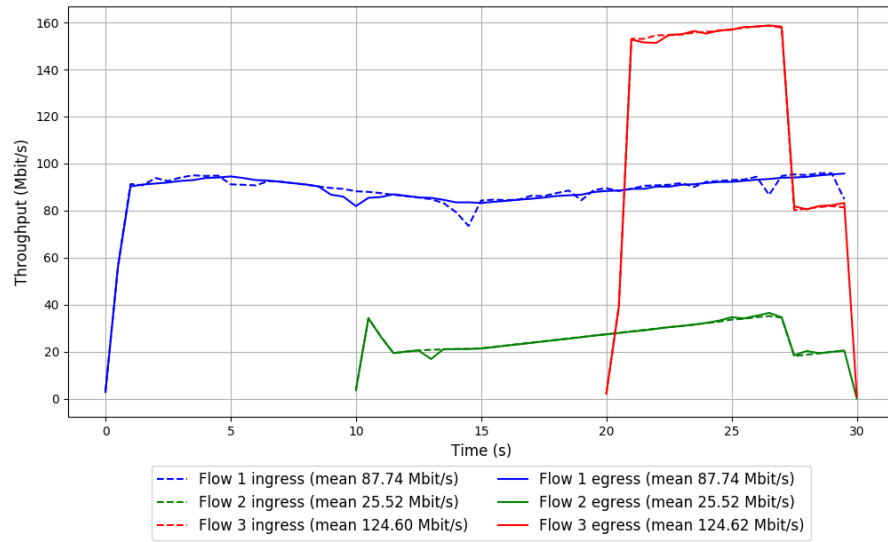
-- Flow 3:

Average throughput: 124.62 Mbit/s

95th percentile per-packet one-way delay: 50.322 ms

Loss rate: 0.00%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2017-12-06 07:00:53

End at: 2017-12-06 07:01:23

Below is generated by plot.py at 2017-12-06 09:38:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 146.25 Mbit/s

95th percentile per-packet one-way delay: 57.035 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 78.50 Mbit/s

95th percentile per-packet one-way delay: 54.208 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 42.79 Mbit/s

95th percentile per-packet one-way delay: 55.310 ms

Loss rate: 0.00%

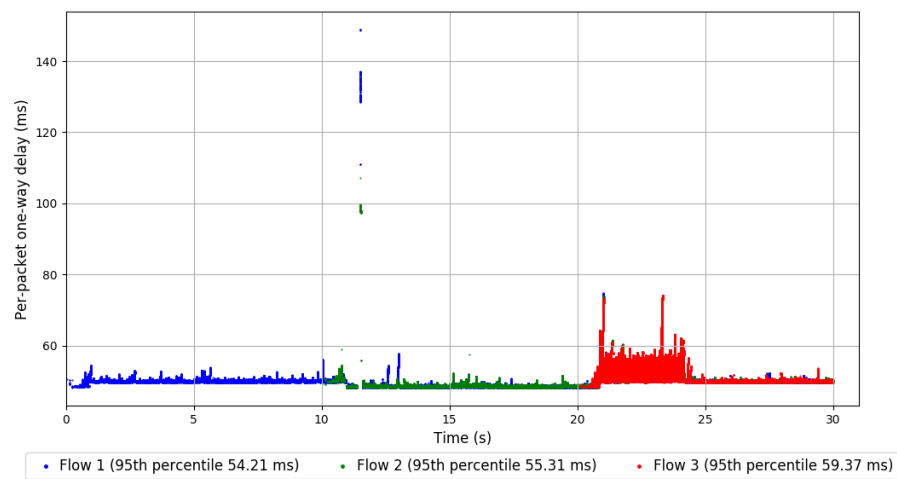
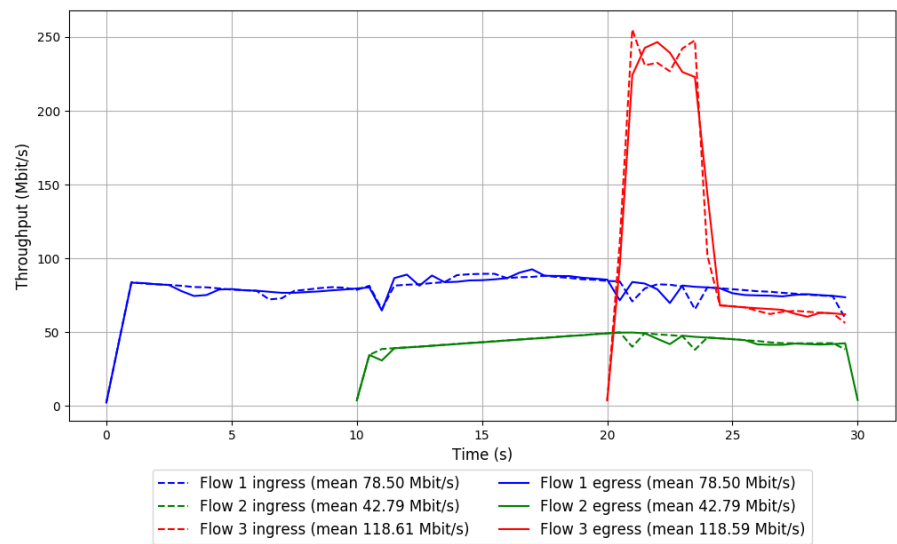
-- Flow 3:

Average throughput: 118.59 Mbit/s

95th percentile per-packet one-way delay: 59.373 ms

Loss rate: 0.00%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2017-12-06 07:12:56

End at: 2017-12-06 07:13:26

Below is generated by plot.py at 2017-12-06 09:38:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 134.70 Mbit/s

95th percentile per-packet one-way delay: 56.915 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 80.31 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 27.65 Mbit/s

95th percentile per-packet one-way delay: 54.327 ms

Loss rate: 0.00%

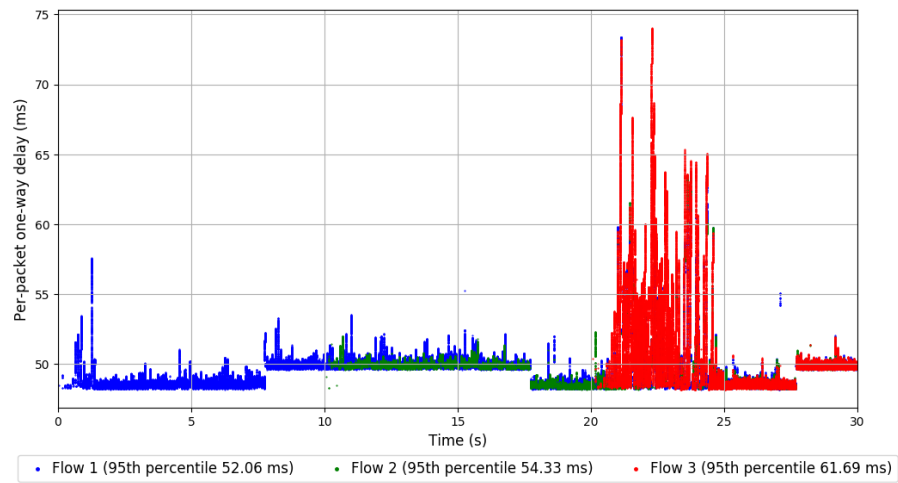
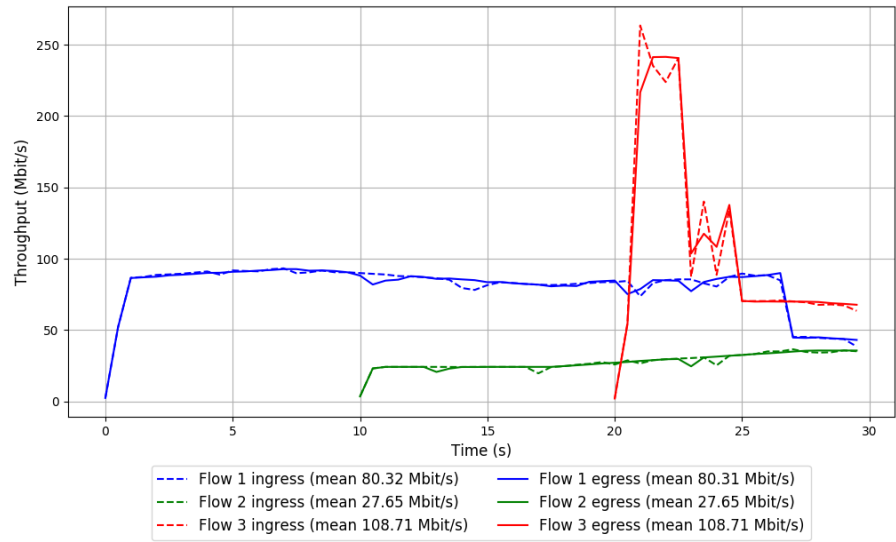
-- Flow 3:

Average throughput: 108.71 Mbit/s

95th percentile per-packet one-way delay: 61.685 ms

Loss rate: 0.01%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2017-12-06 07:25:14

End at: 2017-12-06 07:25:44

Below is generated by plot.py at 2017-12-06 09:38:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 111.05 Mbit/s

95th percentile per-packet one-way delay: 51.094 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 57.20 Mbit/s

95th percentile per-packet one-way delay: 51.017 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 46.79 Mbit/s

95th percentile per-packet one-way delay: 50.977 ms

Loss rate: 0.00%

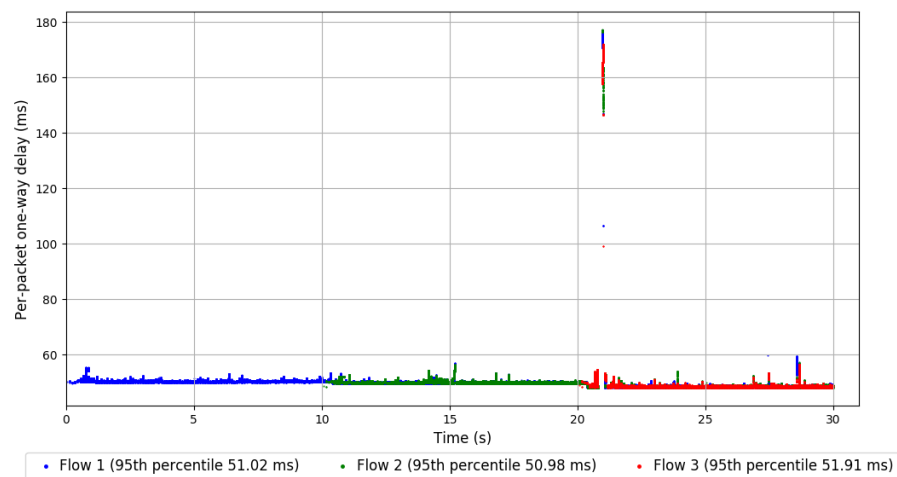
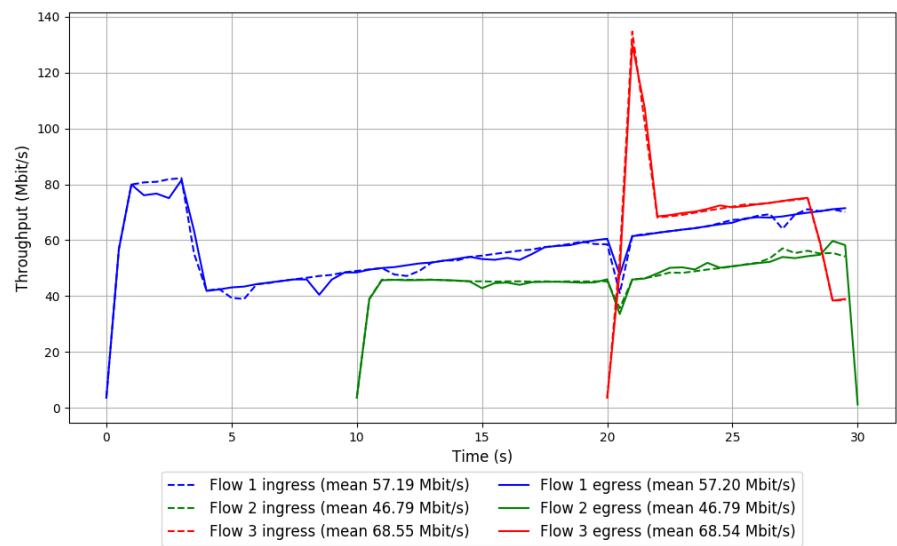
-- Flow 3:

Average throughput: 68.54 Mbit/s

95th percentile per-packet one-way delay: 51.909 ms

Loss rate: 0.01%

Run 10: Report of TCP Vegas — Data Link

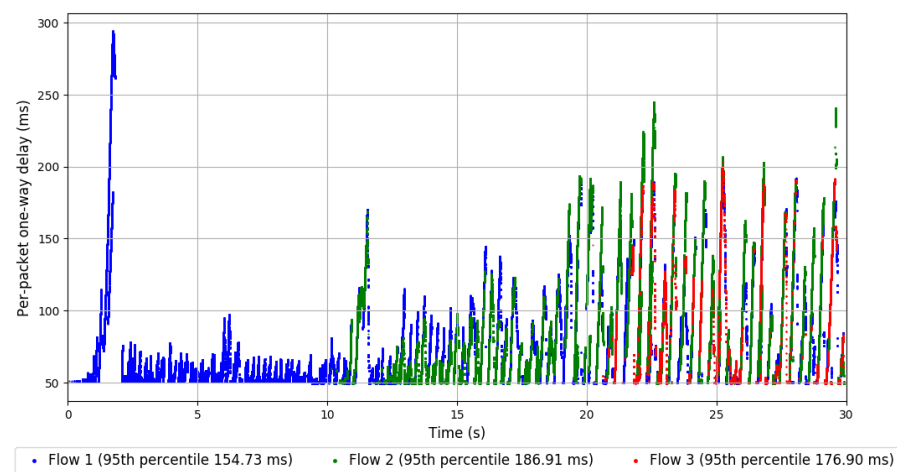
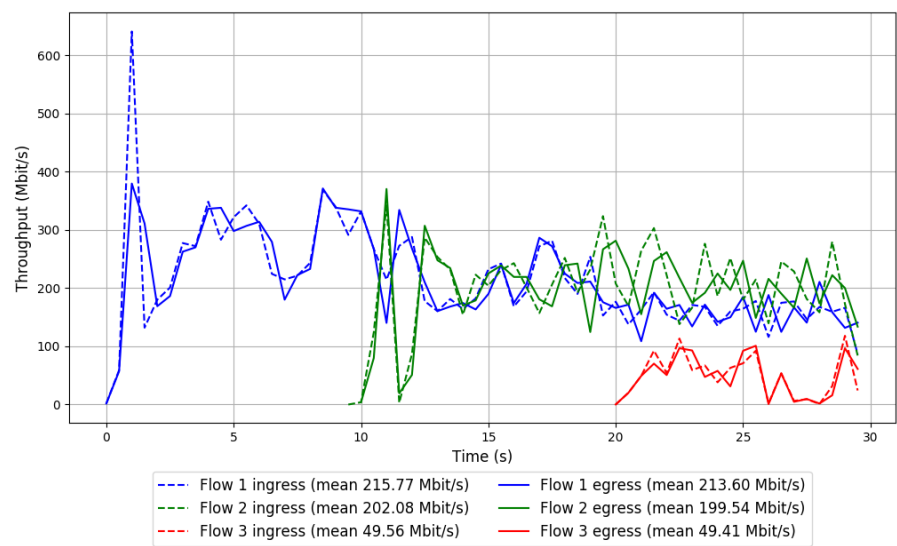


```
Run 1: Statistics of Verus

Start at: 2017-12-06 05:38:44
End at: 2017-12-06 05:39:14

# Below is generated by plot.py at 2017-12-06 09:40:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 362.19 Mbit/s
95th percentile per-packet one-way delay: 174.341 ms
Loss rate: 1.05%
-- Flow 1:
Average throughput: 213.60 Mbit/s
95th percentile per-packet one-way delay: 154.734 ms
Loss rate: 0.90%
-- Flow 2:
Average throughput: 199.54 Mbit/s
95th percentile per-packet one-way delay: 186.907 ms
Loss rate: 1.26%
-- Flow 3:
Average throughput: 49.41 Mbit/s
95th percentile per-packet one-way delay: 176.899 ms
Loss rate: 1.28%
```


Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2017-12-06 05:50:57

End at: 2017-12-06 05:51:27

Below is generated by plot.py at 2017-12-06 09:40:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 302.62 Mbit/s

95th percentile per-packet one-way delay: 196.124 ms

Loss rate: 0.42%

-- Flow 1:

Average throughput: 245.15 Mbit/s

95th percentile per-packet one-way delay: 204.702 ms

Loss rate: 0.49%

-- Flow 2:

Average throughput: 57.05 Mbit/s

95th percentile per-packet one-way delay: 157.653 ms

Loss rate: 0.06%

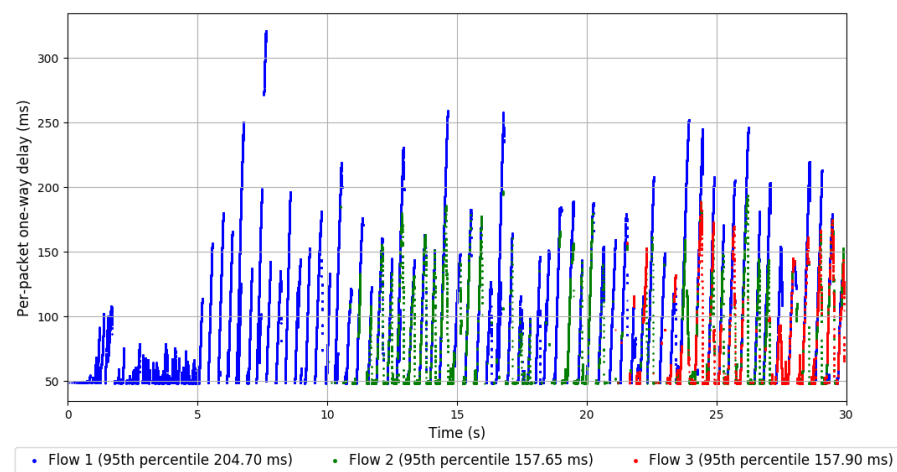
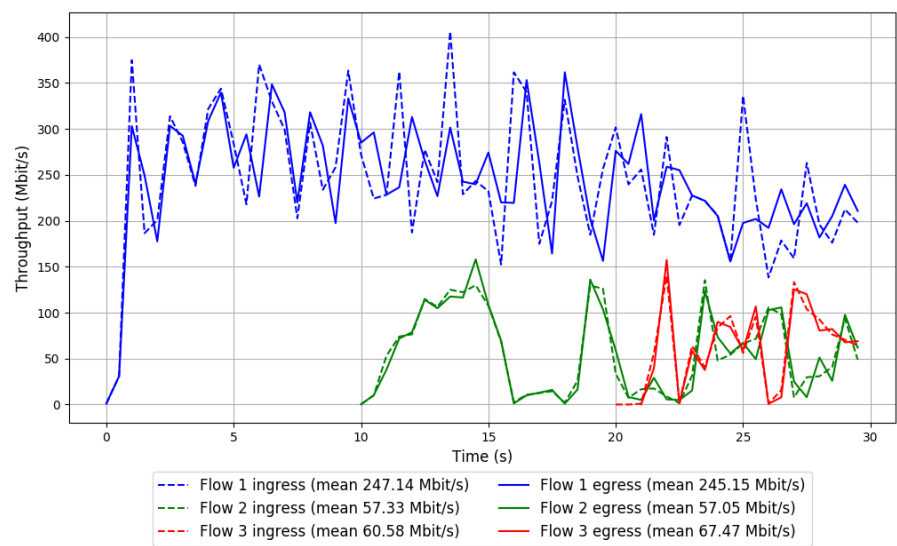
-- Flow 3:

Average throughput: 67.47 Mbit/s

95th percentile per-packet one-way delay: 157.903 ms

Loss rate: 0.33%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2017-12-06 06:03:10

End at: 2017-12-06 06:03:40

Below is generated by plot.py at 2017-12-06 09:41:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 341.08 Mbit/s

95th percentile per-packet one-way delay: 187.768 ms

Loss rate: 1.98%

-- Flow 1:

Average throughput: 182.71 Mbit/s

95th percentile per-packet one-way delay: 162.921 ms

Loss rate: 2.31%

-- Flow 2:

Average throughput: 213.34 Mbit/s

95th percentile per-packet one-way delay: 203.175 ms

Loss rate: 0.87%

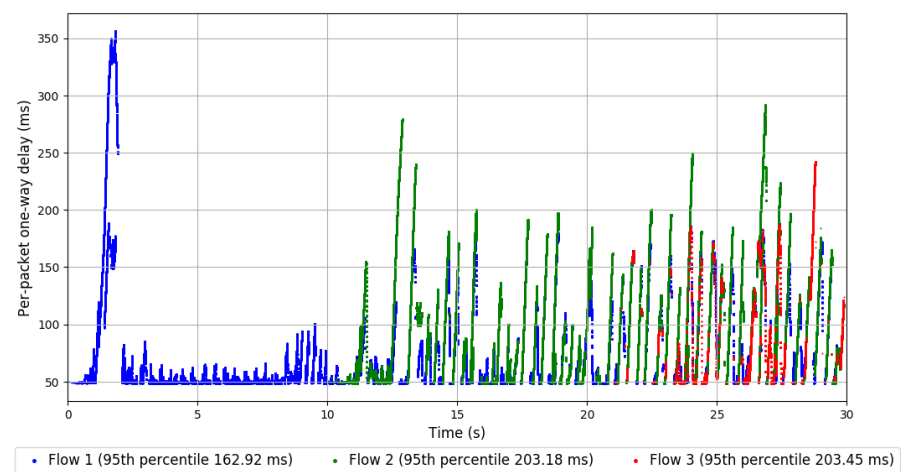
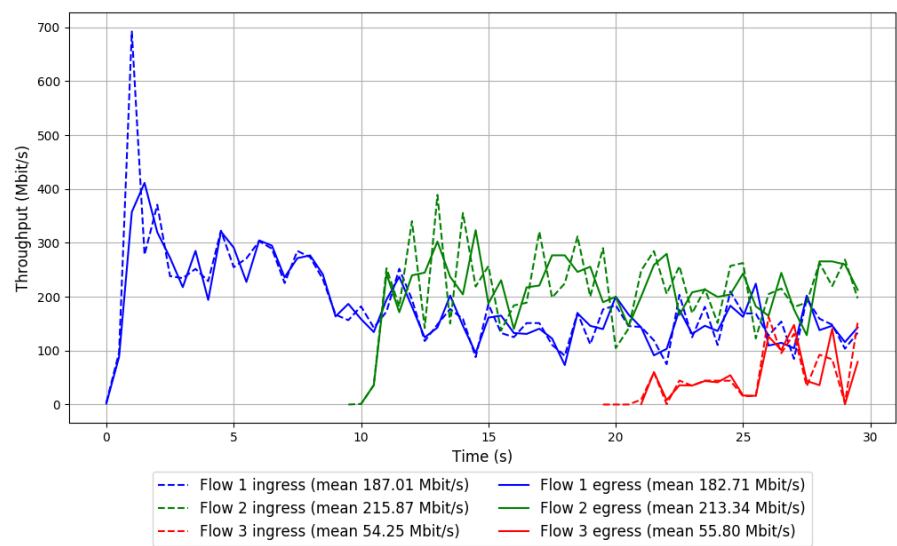
-- Flow 3:

Average throughput: 55.80 Mbit/s

95th percentile per-packet one-way delay: 203.450 ms

Loss rate: 7.52%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2017-12-06 06:15:29

End at: 2017-12-06 06:15:59

Below is generated by plot.py at 2017-12-06 09:41:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 339.78 Mbit/s

95th percentile per-packet one-way delay: 181.543 ms

Loss rate: 0.62%

-- Flow 1:

Average throughput: 213.68 Mbit/s

95th percentile per-packet one-way delay: 165.966 ms

Loss rate: 0.62%

-- Flow 2:

Average throughput: 153.04 Mbit/s

95th percentile per-packet one-way delay: 186.855 ms

Loss rate: 0.40%

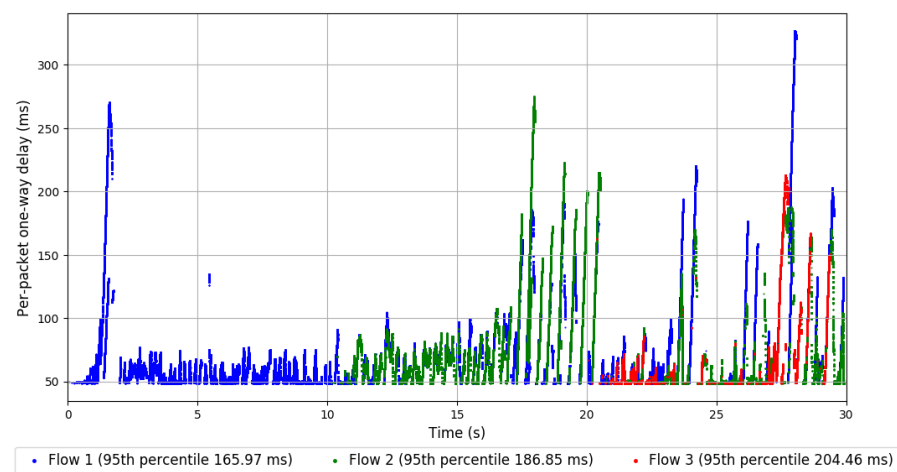
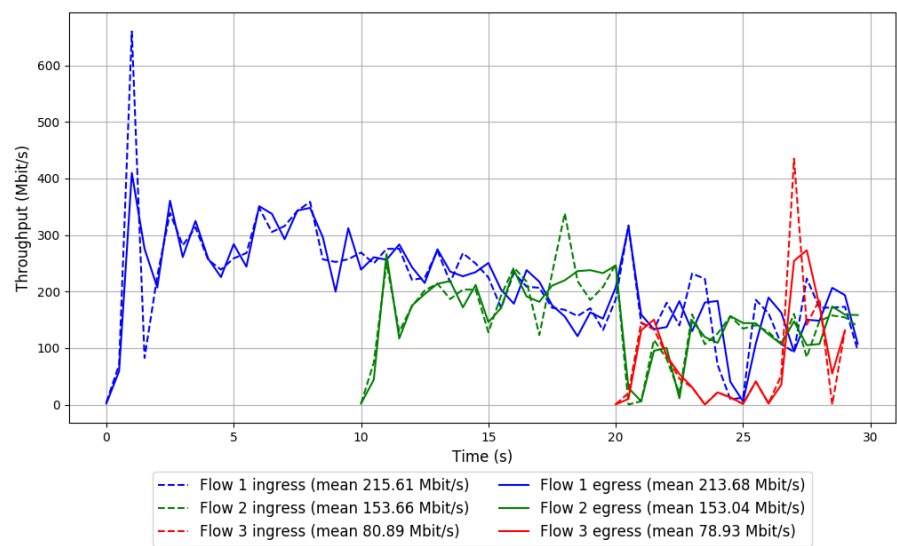
-- Flow 3:

Average throughput: 78.93 Mbit/s

95th percentile per-packet one-way delay: 204.459 ms

Loss rate: 1.53%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2017-12-06 06:27:42

End at: 2017-12-06 06:28:12

Below is generated by plot.py at 2017-12-06 09:41:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 305.57 Mbit/s

95th percentile per-packet one-way delay: 89.346 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 179.18 Mbit/s

95th percentile per-packet one-way delay: 87.432 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 152.29 Mbit/s

95th percentile per-packet one-way delay: 90.063 ms

Loss rate: 0.00%

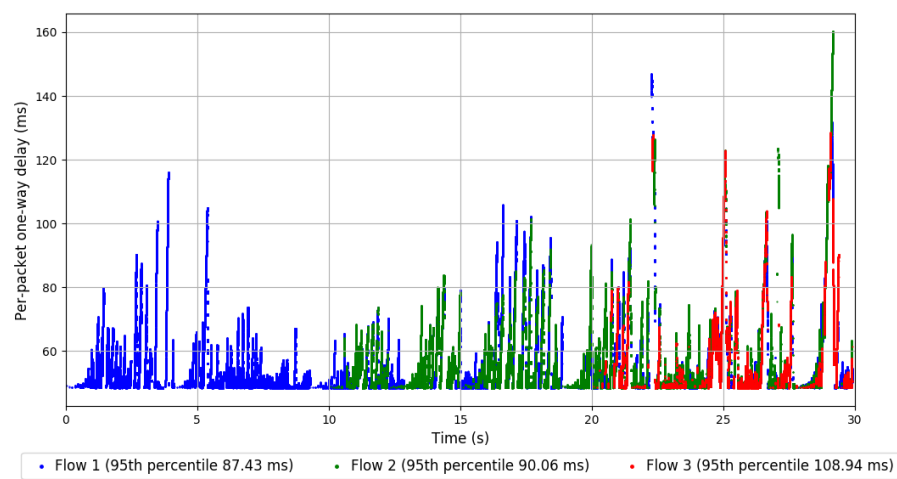
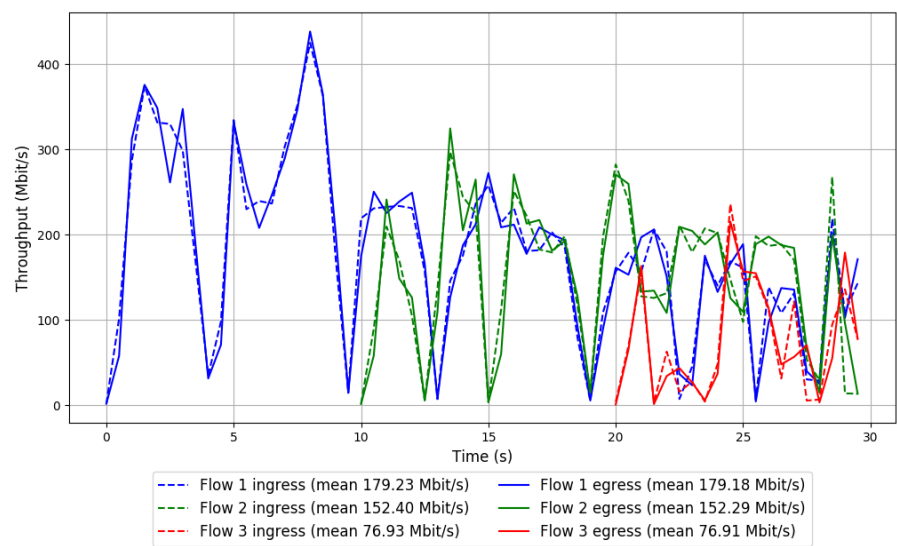
-- Flow 3:

Average throughput: 76.91 Mbit/s

95th percentile per-packet one-way delay: 108.939 ms

Loss rate: 0.01%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2017-12-06 06:39:59

End at: 2017-12-06 06:40:29

Below is generated by plot.py at 2017-12-06 09:42:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 374.04 Mbit/s

95th percentile per-packet one-way delay: 112.565 ms

Loss rate: 0.45%

-- Flow 1:

Average throughput: 225.38 Mbit/s

95th percentile per-packet one-way delay: 114.698 ms

Loss rate: 0.61%

-- Flow 2:

Average throughput: 167.77 Mbit/s

95th percentile per-packet one-way delay: 108.711 ms

Loss rate: 0.25%

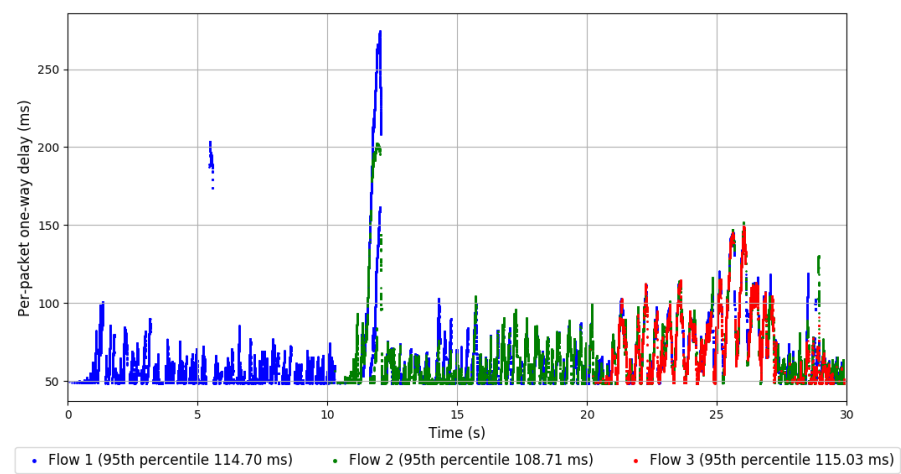
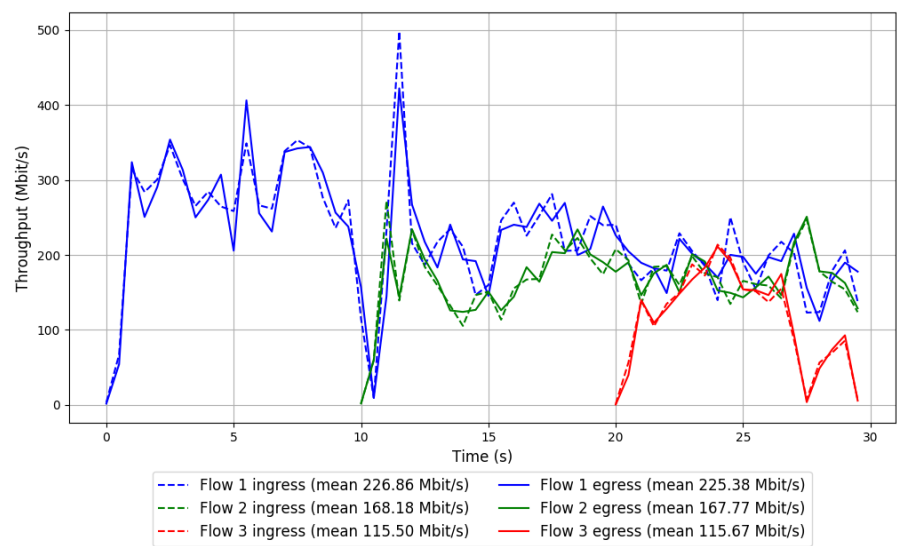
-- Flow 3:

Average throughput: 115.67 Mbit/s

95th percentile per-packet one-way delay: 115.030 ms

Loss rate: 0.06%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2017-12-06 06:52:10

End at: 2017-12-06 06:52:40

Below is generated by plot.py at 2017-12-06 09:43:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 296.40 Mbit/s

95th percentile per-packet one-way delay: 165.941 ms

Loss rate: 0.15%

-- Flow 1:

Average throughput: 185.03 Mbit/s

95th percentile per-packet one-way delay: 170.320 ms

Loss rate: 0.19%

-- Flow 2:

Average throughput: 129.00 Mbit/s

95th percentile per-packet one-way delay: 156.748 ms

Loss rate: 0.07%

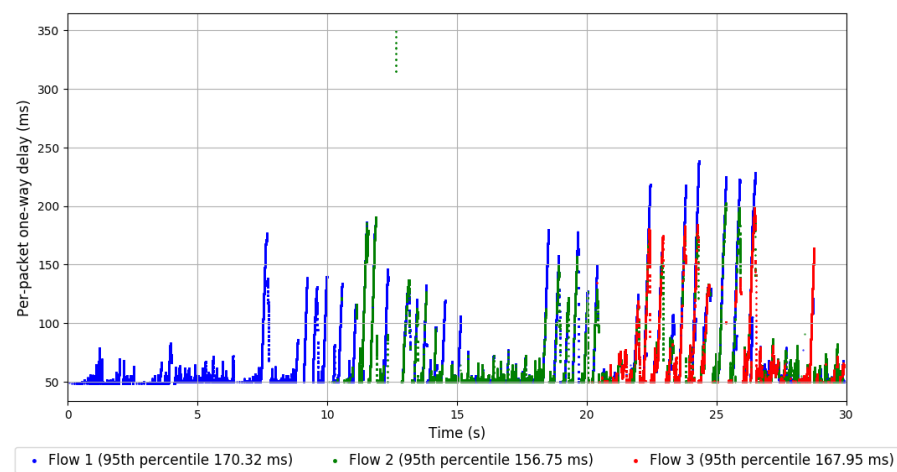
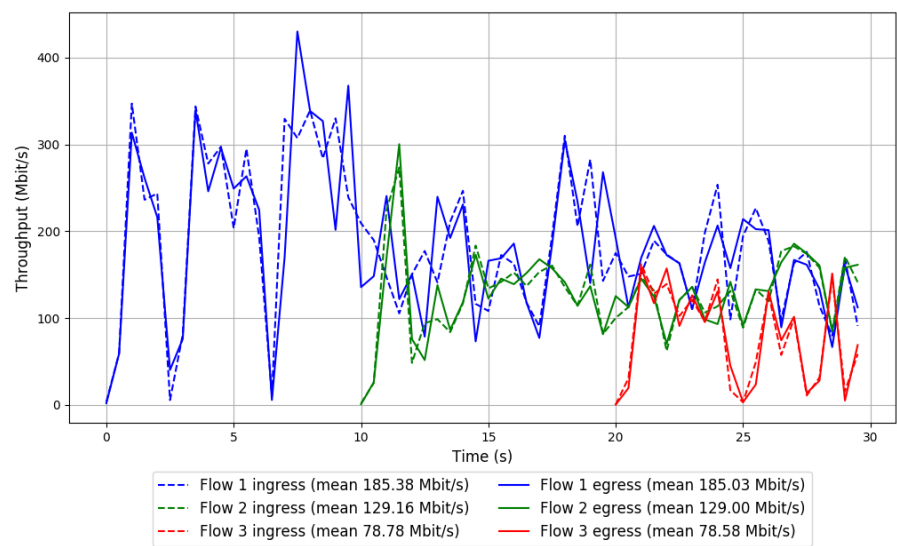
-- Flow 3:

Average throughput: 78.58 Mbit/s

95th percentile per-packet one-way delay: 167.951 ms

Loss rate: 0.11%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2017-12-06 07:04:20

End at: 2017-12-06 07:04:51

Below is generated by plot.py at 2017-12-06 09:44:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 356.00 Mbit/s

95th percentile per-packet one-way delay: 138.081 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 229.42 Mbit/s

95th percentile per-packet one-way delay: 123.464 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 123.48 Mbit/s

95th percentile per-packet one-way delay: 165.716 ms

Loss rate: 0.14%

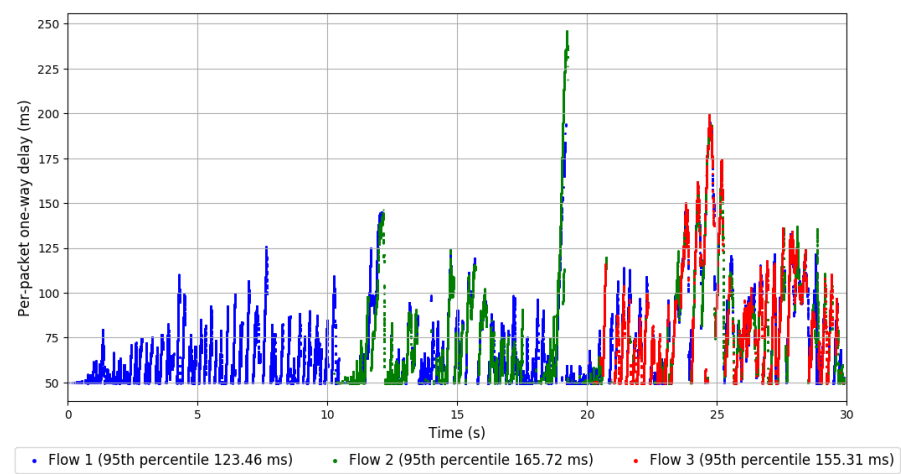
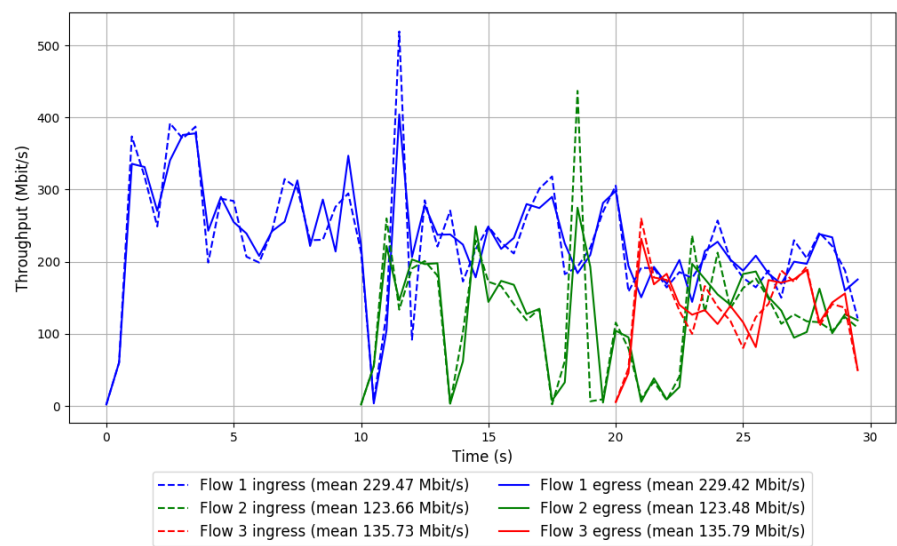
-- Flow 3:

Average throughput: 135.79 Mbit/s

95th percentile per-packet one-way delay: 155.310 ms

Loss rate: 0.07%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2017-12-06 07:16:27

End at: 2017-12-06 07:16:57

Below is generated by plot.py at 2017-12-06 09:46:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 355.17 Mbit/s

95th percentile per-packet one-way delay: 130.219 ms

Loss rate: 0.59%

-- Flow 1:

Average throughput: 227.12 Mbit/s

95th percentile per-packet one-way delay: 120.230 ms

Loss rate: 0.45%

-- Flow 2:

Average throughput: 119.21 Mbit/s

95th percentile per-packet one-way delay: 141.492 ms

Loss rate: 0.46%

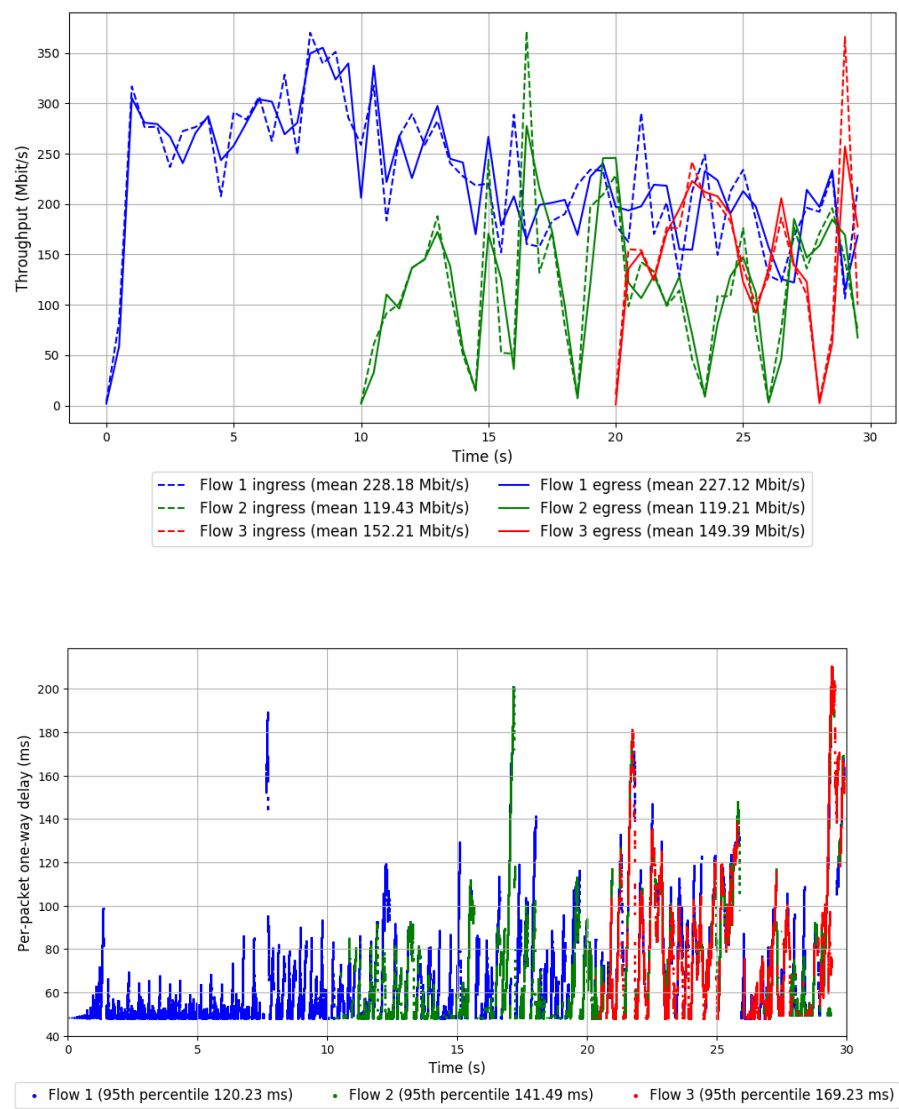
-- Flow 3:

Average throughput: 149.39 Mbit/s

95th percentile per-packet one-way delay: 169.232 ms

Loss rate: 1.45%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2017-12-06 07:28:38

End at: 2017-12-06 07:29:08

Below is generated by plot.py at 2017-12-06 09:46:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 338.49 Mbit/s

95th percentile per-packet one-way delay: 121.539 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 192.07 Mbit/s

95th percentile per-packet one-way delay: 110.445 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 169.35 Mbit/s

95th percentile per-packet one-way delay: 121.965 ms

Loss rate: 0.07%

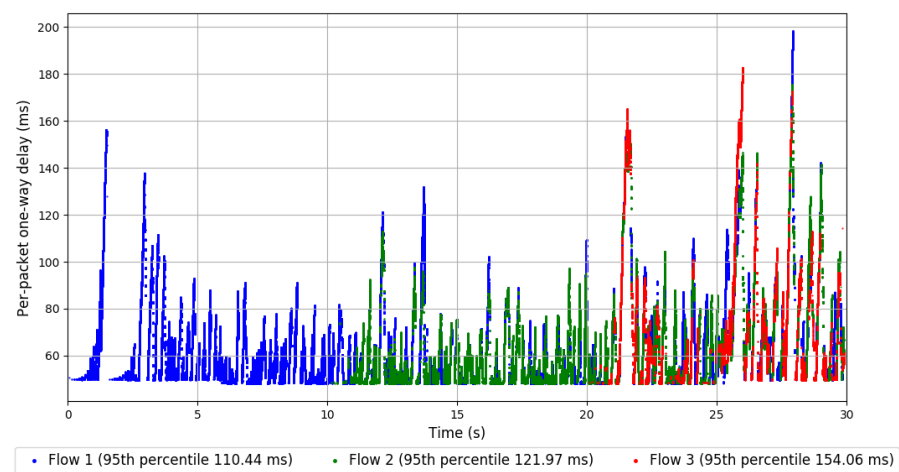
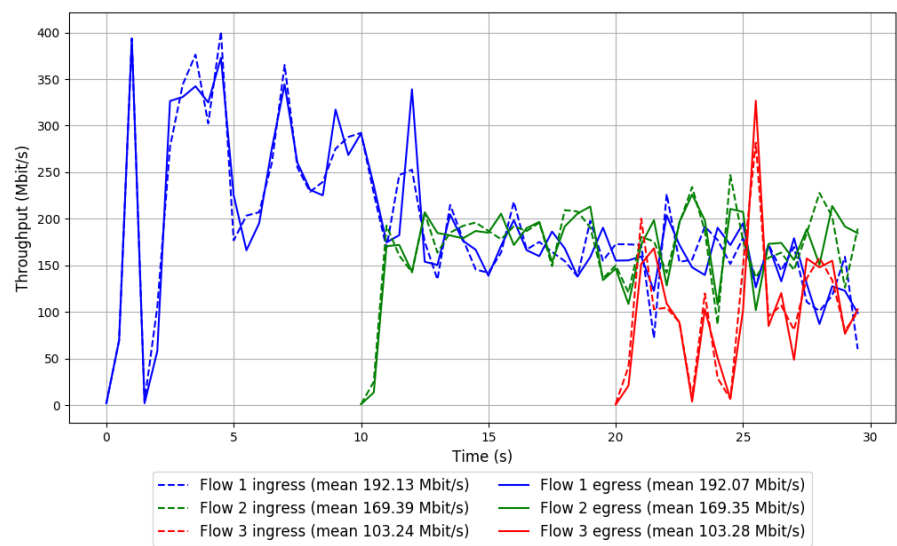
-- Flow 3:

Average throughput: 103.28 Mbit/s

95th percentile per-packet one-way delay: 154.063 ms

Loss rate: 0.00%

Run 10: Report of Verus — Data Link

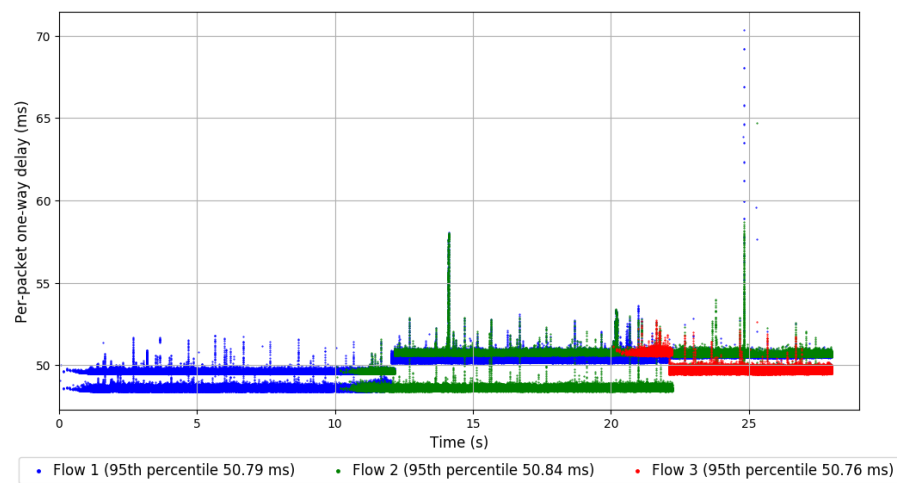
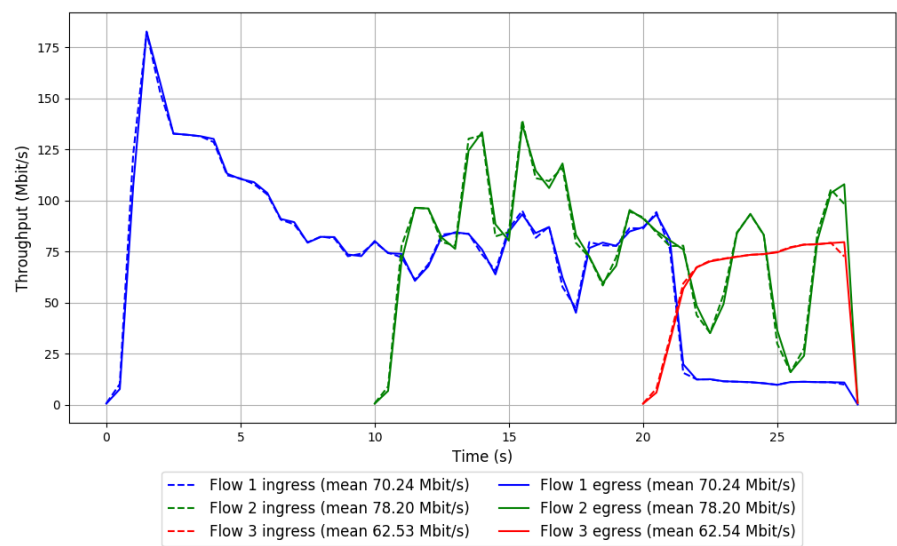


```
Run 1: Statistics of Copa

Start at: 2017-12-06 05:40:30
End at: 2017-12-06 05:41:00

# Below is generated by plot.py at 2017-12-06 09:46:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 138.14 Mbit/s
95th percentile per-packet one-way delay: 50.810 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 70.24 Mbit/s
95th percentile per-packet one-way delay: 50.792 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 78.20 Mbit/s
95th percentile per-packet one-way delay: 50.835 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 62.54 Mbit/s
95th percentile per-packet one-way delay: 50.762 ms
Loss rate: 0.00%
```

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2017-12-06 05:52:39

End at: 2017-12-06 05:53:09

Below is generated by plot.py at 2017-12-06 09:46:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 121.00 Mbit/s

95th percentile per-packet one-way delay: 50.018 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 66.76 Mbit/s

95th percentile per-packet one-way delay: 49.446 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 75.25 Mbit/s

95th percentile per-packet one-way delay: 50.075 ms

Loss rate: 0.00%

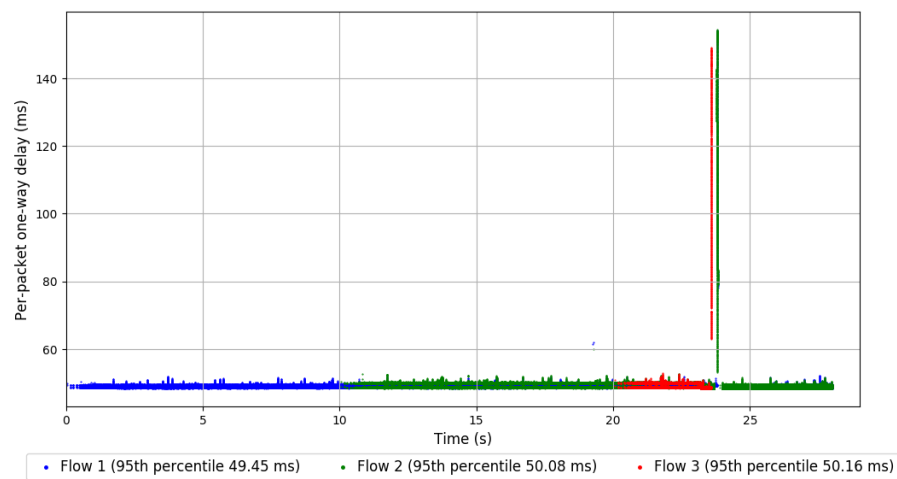
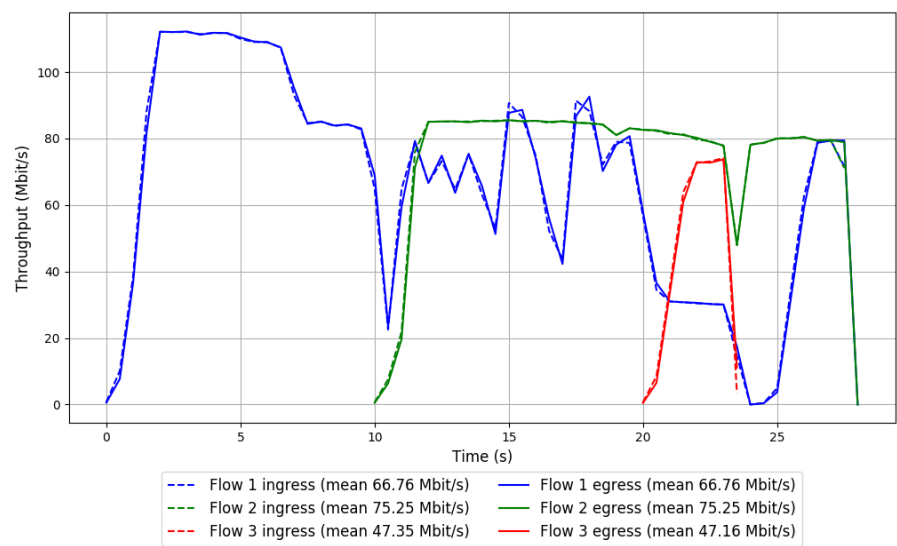
-- Flow 3:

Average throughput: 47.16 Mbit/s

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

Loss rate: 0.00%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2017-12-06 06:04:54

End at: 2017-12-06 06:05:24

Below is generated by plot.py at 2017-12-06 09:46:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 127.63 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 71.01 Mbit/s

95th percentile per-packet one-way delay: 50.706 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 66.18 Mbit/s

95th percentile per-packet one-way delay: 50.641 ms

Loss rate: 0.00%

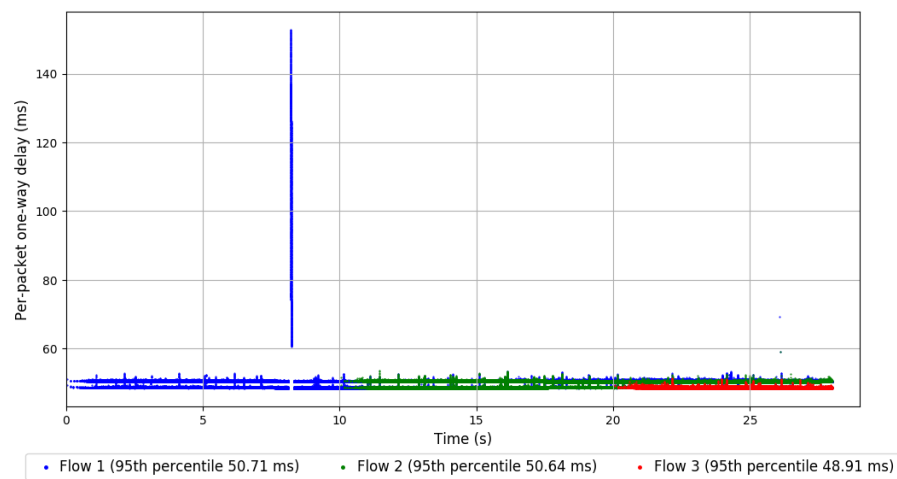
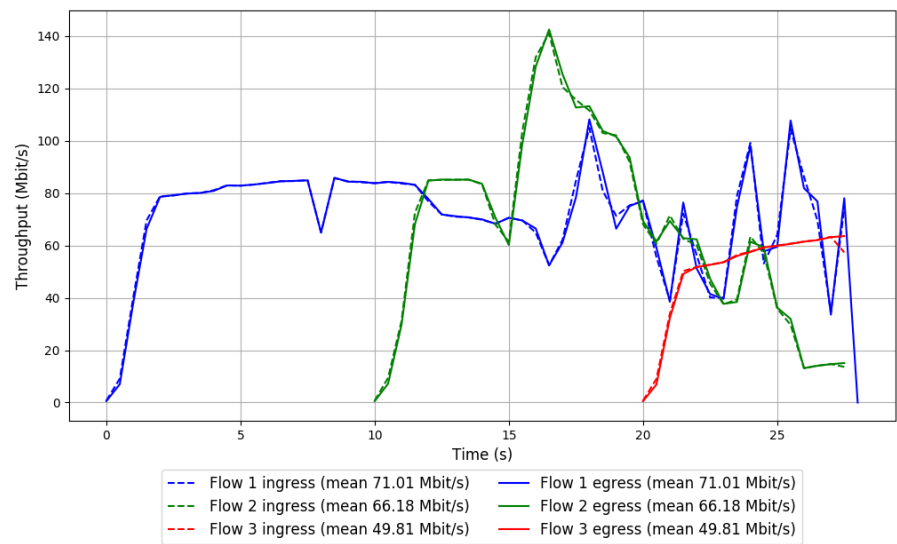
-- Flow 3:

Average throughput: 49.81 Mbit/s

95th percentile per-packet one-way delay: 48.911 ms

Loss rate: 0.00%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2017-12-06 06:17:13

End at: 2017-12-06 06:17:43

Below is generated by plot.py at 2017-12-06 09:46:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 124.16 Mbit/s

95th percentile per-packet one-way delay: 49.599 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 69.76 Mbit/s

95th percentile per-packet one-way delay: 49.426 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 68.99 Mbit/s

95th percentile per-packet one-way delay: 48.804 ms

Loss rate: 0.00%

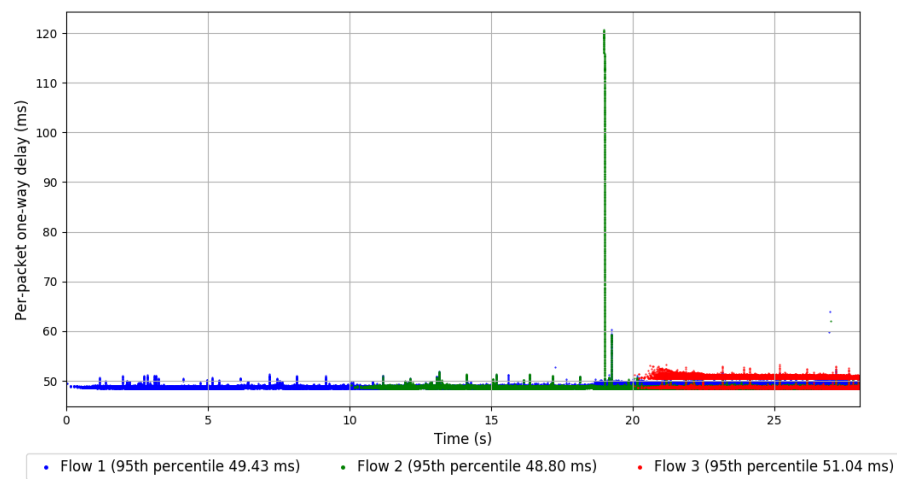
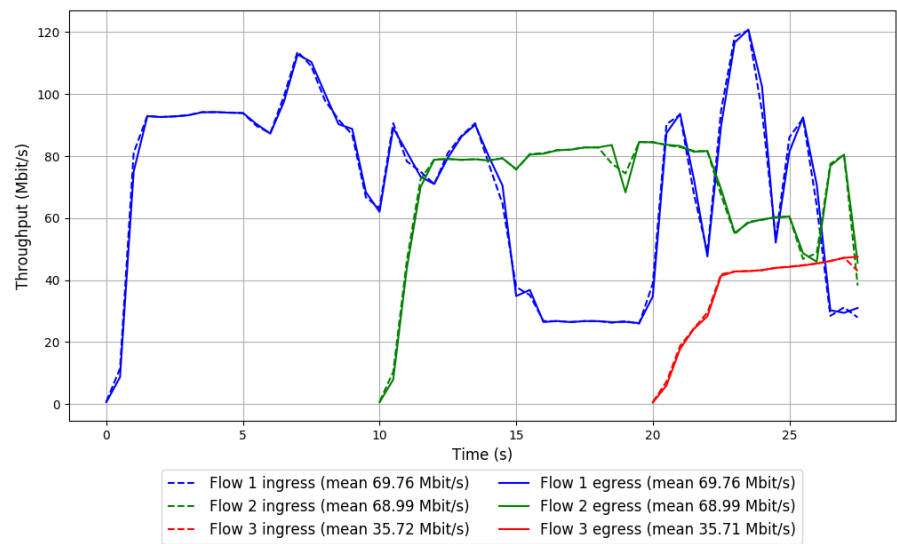
-- Flow 3:

Average throughput: 35.71 Mbit/s

95th percentile per-packet one-way delay: 51.043 ms

Loss rate: 0.00%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2017-12-06 06:29:24

End at: 2017-12-06 06:29:54

Below is generated by plot.py at 2017-12-06 09:47:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 124.54 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 74.89 Mbit/s

95th percentile per-packet one-way delay: 50.665 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 61.99 Mbit/s

95th percentile per-packet one-way delay: 48.764 ms

Loss rate: 0.00%

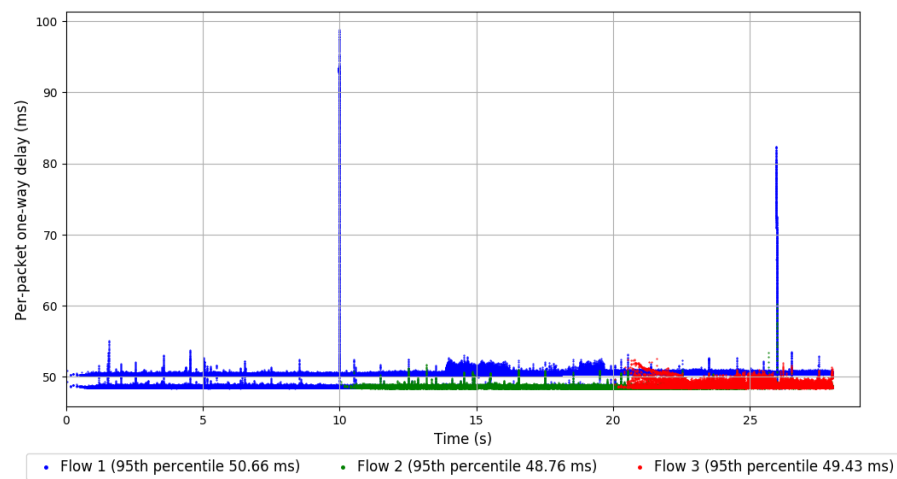
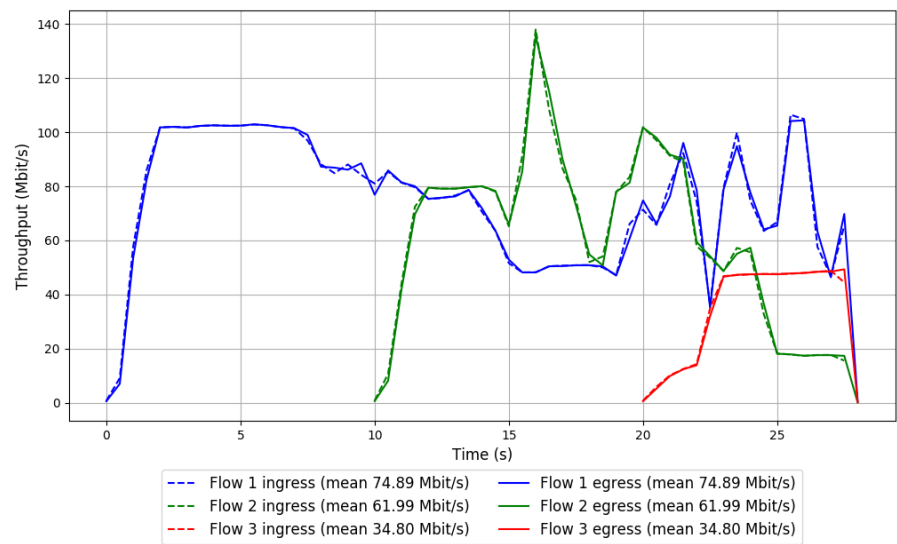
-- Flow 3:

Average throughput: 34.80 Mbit/s

95th percentile per-packet one-way delay: 49.432 ms

Loss rate: 0.00%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2017-12-06 06:41:46

End at: 2017-12-06 06:42:16

Below is generated by plot.py at 2017-12-06 09:48:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 136.32 Mbit/s

95th percentile per-packet one-way delay: 50.592 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 72.51 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 77.12 Mbit/s

95th percentile per-packet one-way delay: 50.130 ms

Loss rate: 0.00%

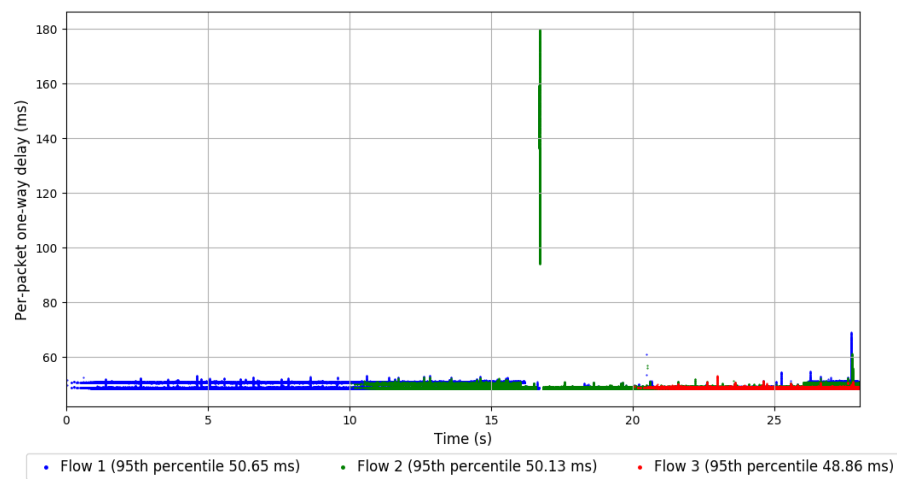
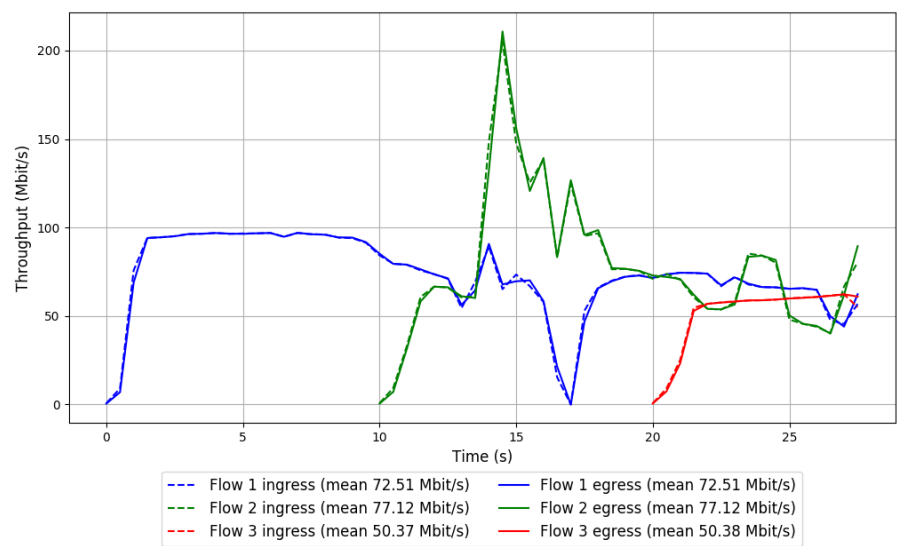
-- Flow 3:

Average throughput: 50.38 Mbit/s

95th percentile per-packet one-way delay: 48.858 ms

Loss rate: 0.00%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2017-12-06 06:53:50

End at: 2017-12-06 06:54:20

Below is generated by plot.py at 2017-12-06 09:48:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 127.40 Mbit/s

95th percentile per-packet one-way delay: 49.971 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 69.99 Mbit/s

95th percentile per-packet one-way delay: 49.976 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 63.34 Mbit/s

95th percentile per-packet one-way delay: 49.962 ms

Loss rate: 0.00%

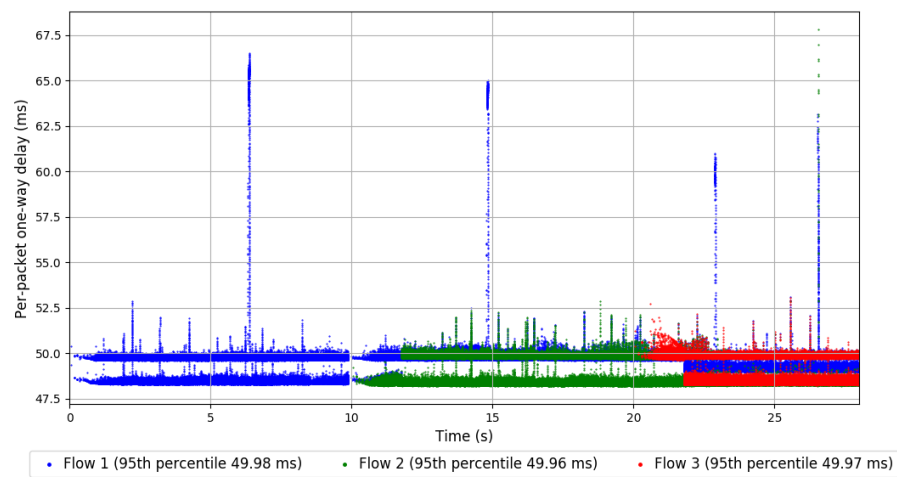
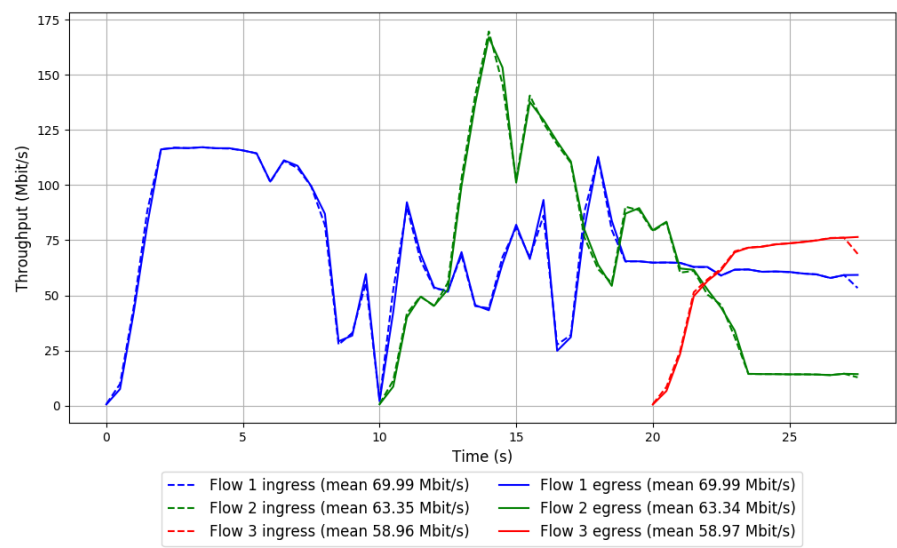
-- Flow 3:

Average throughput: 58.97 Mbit/s

95th percentile per-packet one-way delay: 49.972 ms

Loss rate: 0.00%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2017-12-06 07:06:05

End at: 2017-12-06 07:06:35

Below is generated by plot.py at 2017-12-06 09:48:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 131.46 Mbit/s

95th percentile per-packet one-way delay: 50.203 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 69.11 Mbit/s

95th percentile per-packet one-way delay: 49.855 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 68.31 Mbit/s

95th percentile per-packet one-way delay: 50.382 ms

Loss rate: 0.00%

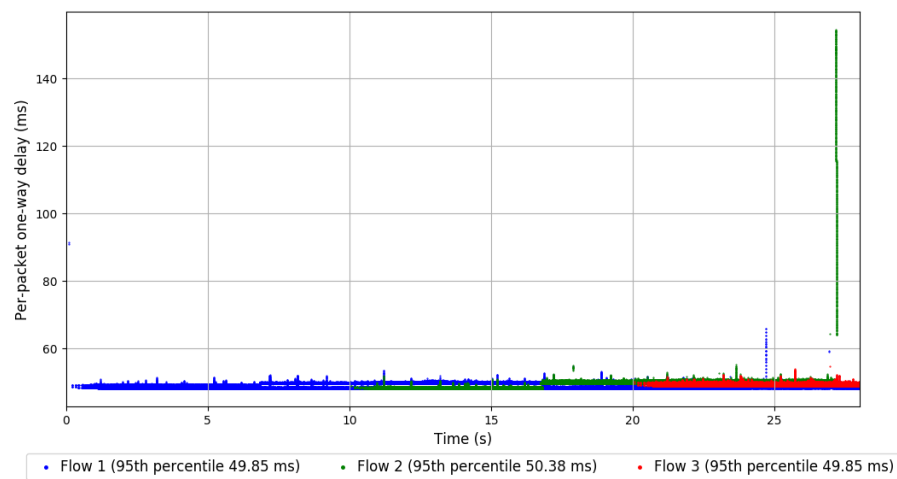
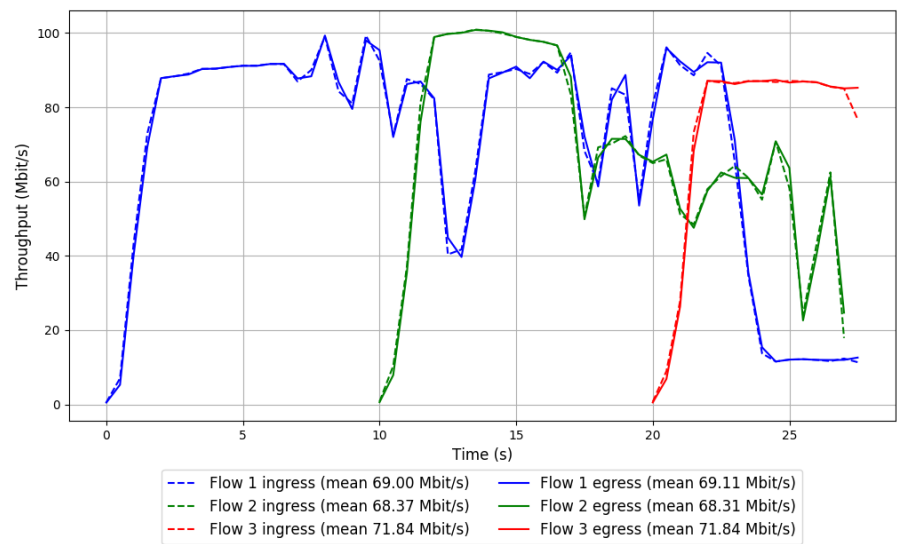
-- Flow 3:

Average throughput: 71.84 Mbit/s

95th percentile per-packet one-way delay: 49.854 ms

Loss rate: 0.00%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2017-12-06 07:18:12

End at: 2017-12-06 07:18:42

Below is generated by plot.py at 2017-12-06 09:48:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 117.26 Mbit/s

95th percentile per-packet one-way delay: 50.254 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 69.99 Mbit/s

95th percentile per-packet one-way delay: 50.245 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 58.30 Mbit/s

95th percentile per-packet one-way delay: 50.055 ms

Loss rate: 0.00%

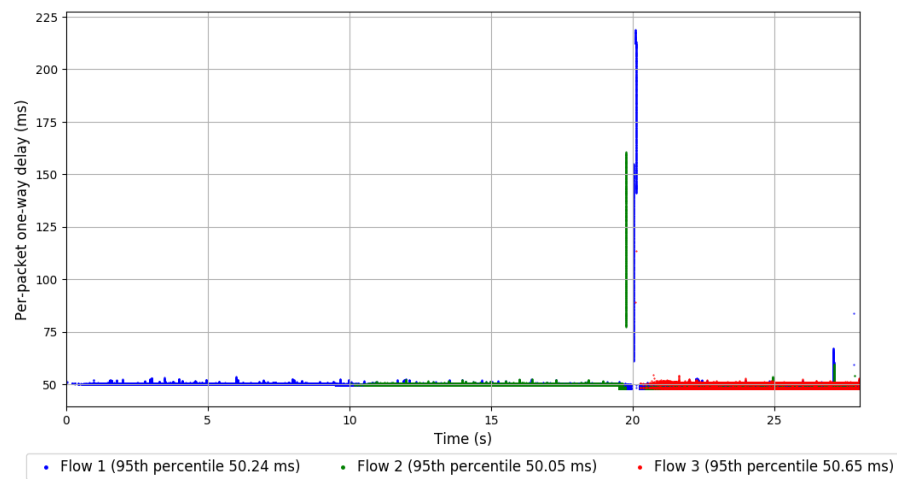
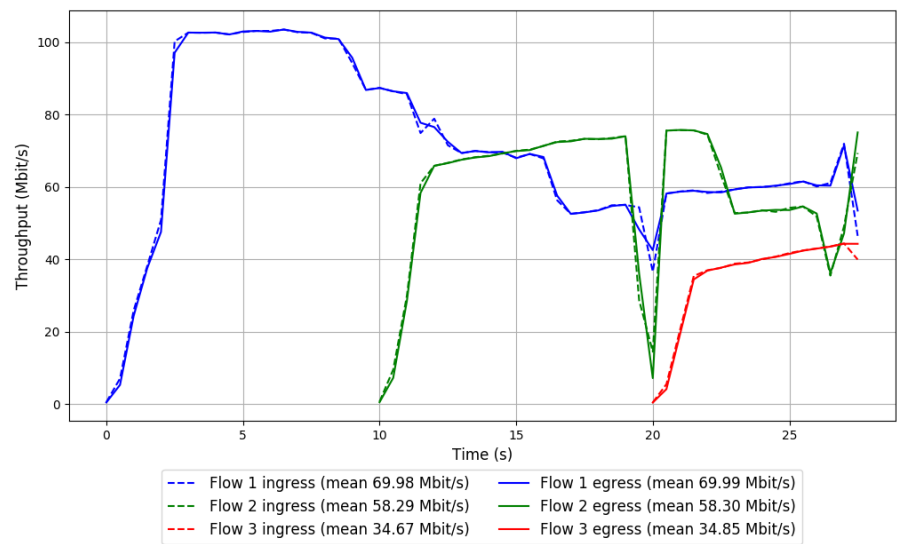
-- Flow 3:

Average throughput: 34.85 Mbit/s

95th percentile per-packet one-way delay: 50.645 ms

Loss rate: 0.00%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2017-12-06 07:30:22

End at: 2017-12-06 07:30:52

Below is generated by plot.py at 2017-12-06 09:50:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 133.06 Mbit/s

95th percentile per-packet one-way delay: 50.036 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 81.14 Mbit/s

95th percentile per-packet one-way delay: 50.075 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 80.87 Mbit/s

95th percentile per-packet one-way delay: 49.794 ms

Loss rate: 0.00%

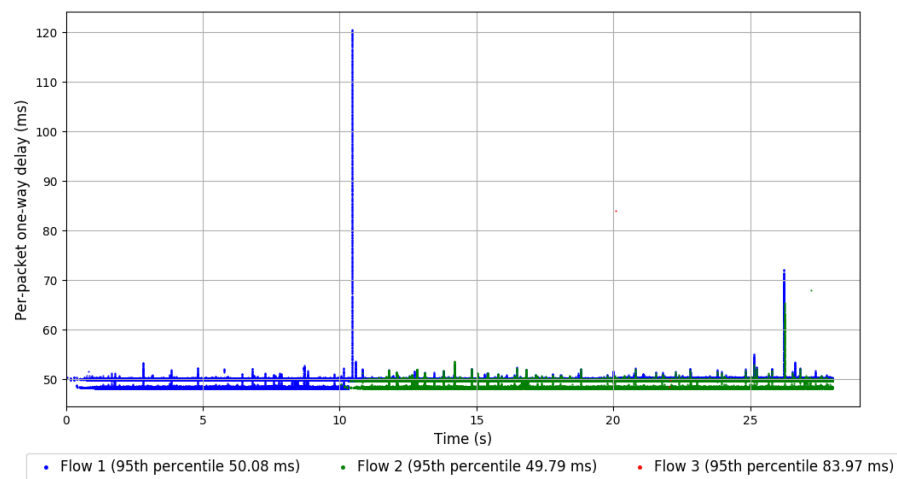
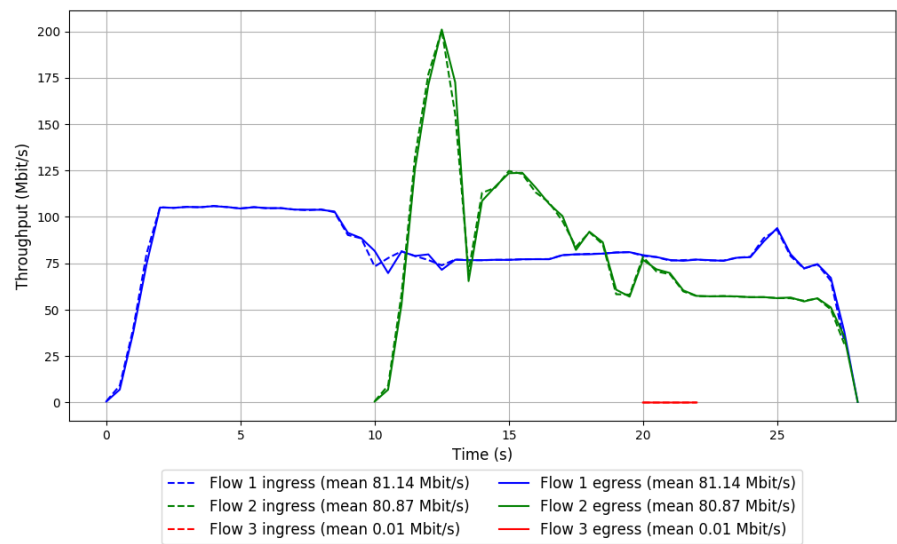
-- Flow 3:

Average throughput: 0.01 Mbit/s

95th percentile per-packet one-way delay: 83.975 ms

Loss rate: 46.17%

Run 10: Report of Copa — Data Link

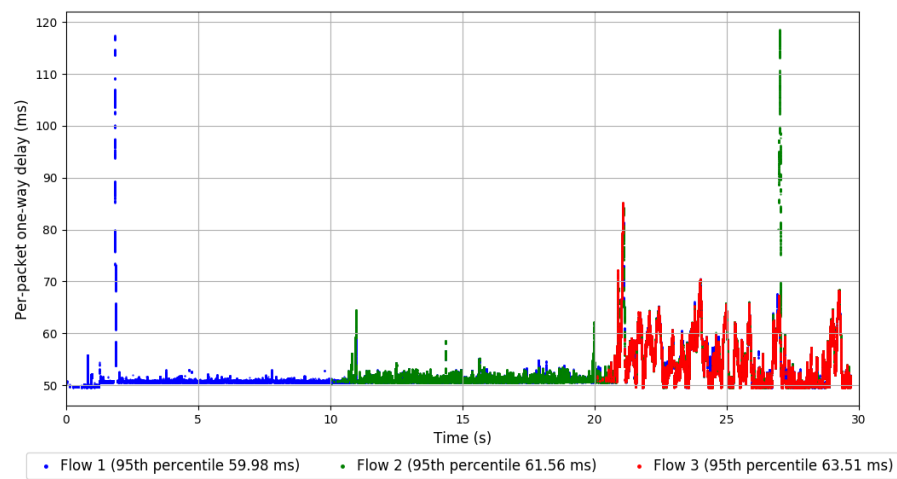
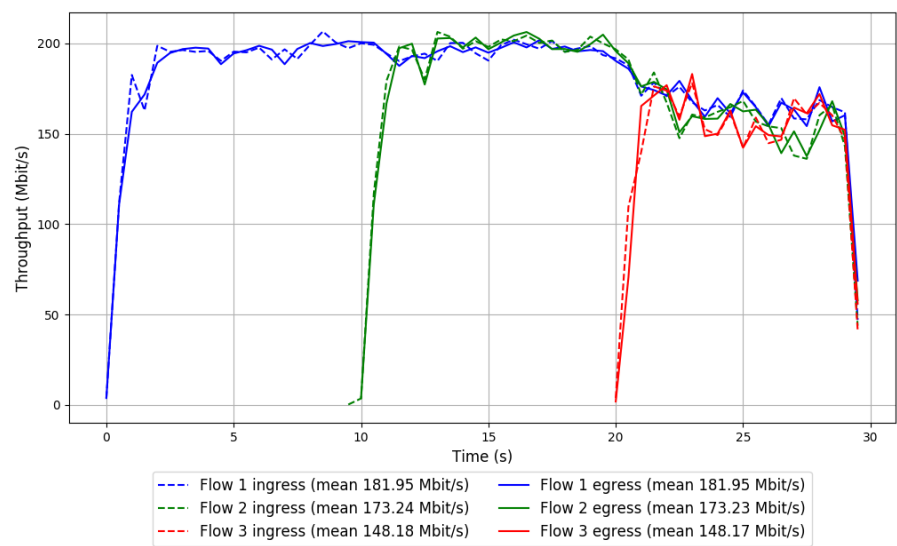


```
Run 1: Statistics of Indigo

Start at: 2017-12-06 05:36:02
End at: 2017-12-06 05:36:32

# Below is generated by plot.py at 2017-12-06 09:52:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 344.77 Mbit/s
95th percentile per-packet one-way delay: 61.538 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 181.95 Mbit/s
95th percentile per-packet one-way delay: 59.977 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 173.23 Mbit/s
95th percentile per-packet one-way delay: 61.556 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 148.17 Mbit/s
95th percentile per-packet one-way delay: 63.511 ms
Loss rate: 0.01%
```


Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2017-12-06 05:48:11

End at: 2017-12-06 05:48:41

Below is generated by plot.py at 2017-12-06 09:52:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 328.94 Mbit/s

95th percentile per-packet one-way delay: 57.431 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 176.68 Mbit/s

95th percentile per-packet one-way delay: 54.201 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 168.74 Mbit/s

95th percentile per-packet one-way delay: 58.069 ms

Loss rate: 0.00%

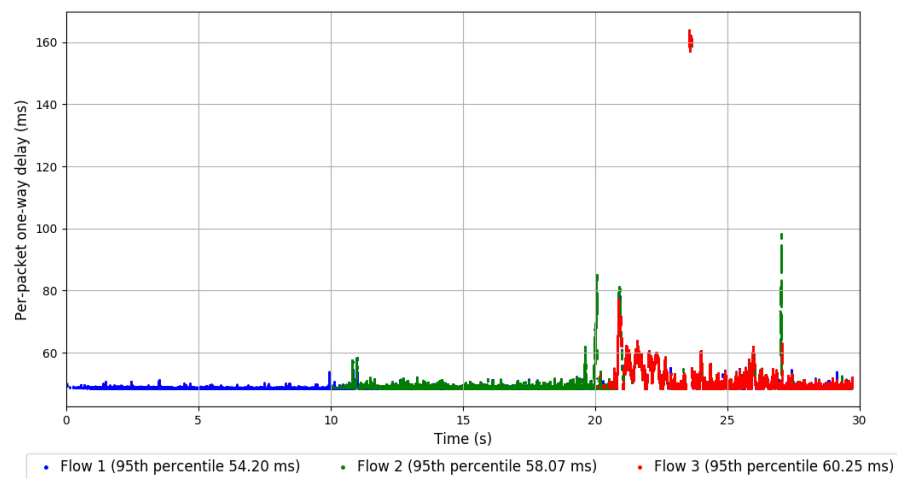
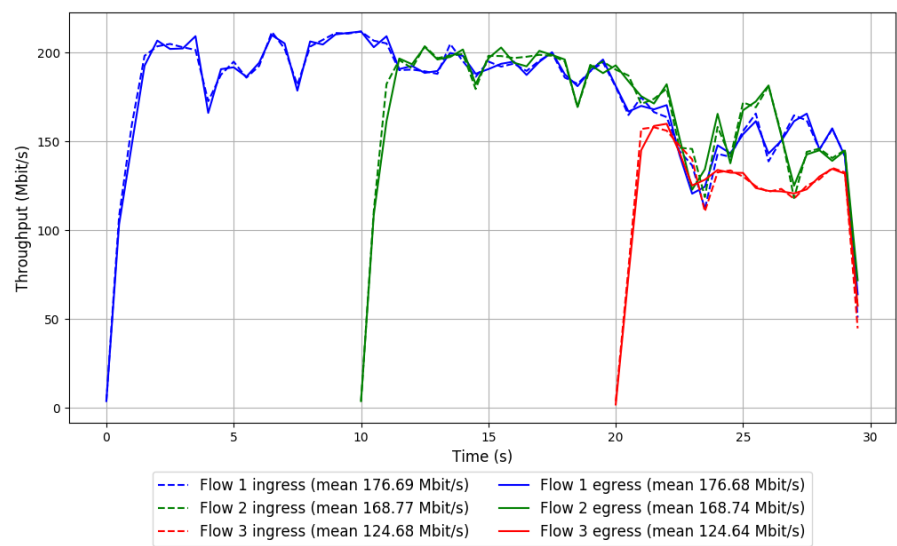
-- Flow 3:

Average throughput: 124.64 Mbit/s

95th percentile per-packet one-way delay: 60.250 ms

Loss rate: 0.01%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2017-12-06 06:00:29

End at: 2017-12-06 06:00:59

Below is generated by plot.py at 2017-12-06 09:53:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 343.71 Mbit/s

95th percentile per-packet one-way delay: 56.460 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 180.22 Mbit/s

95th percentile per-packet one-way delay: 54.570 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 172.84 Mbit/s

95th percentile per-packet one-way delay: 56.738 ms

Loss rate: 0.00%

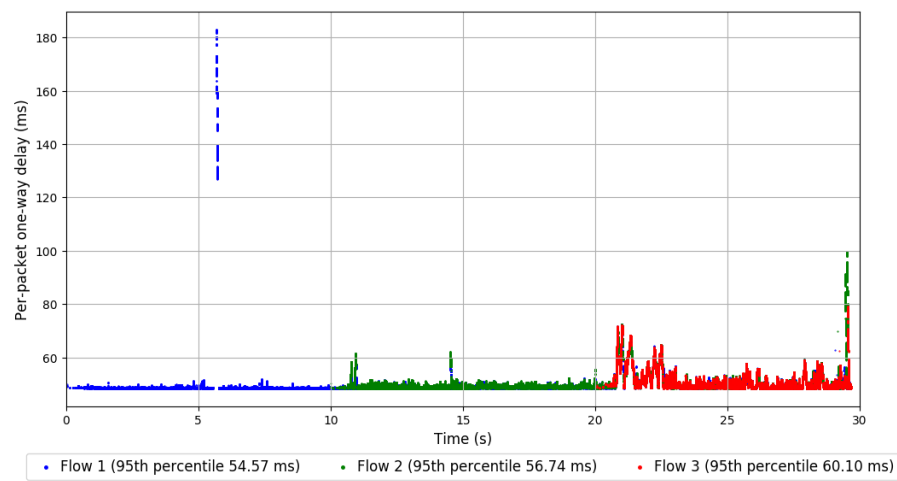
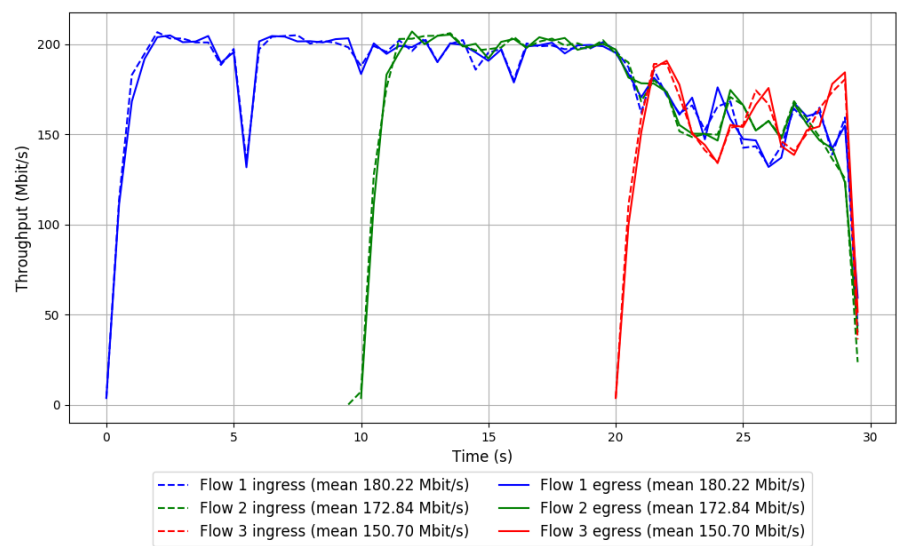
-- Flow 3:

Average throughput: 150.70 Mbit/s

95th percentile per-packet one-way delay: 60.099 ms

Loss rate: 0.00%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

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

End at: 2017-12-06 06:13:15

Below is generated by plot.py at 2017-12-06 09:53:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 337.78 Mbit/s

95th percentile per-packet one-way delay: 58.314 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 178.72 Mbit/s

95th percentile per-packet one-way delay: 55.431 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 168.31 Mbit/s

95th percentile per-packet one-way delay: 59.036 ms

Loss rate: 0.00%

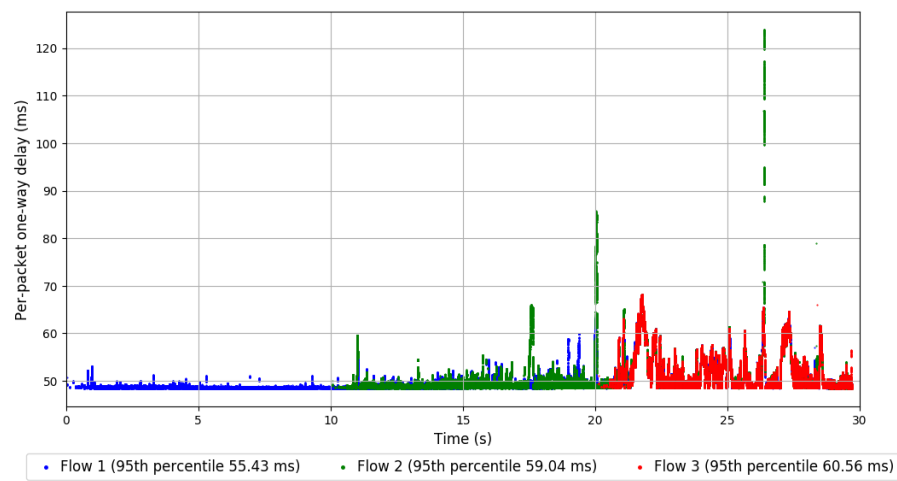
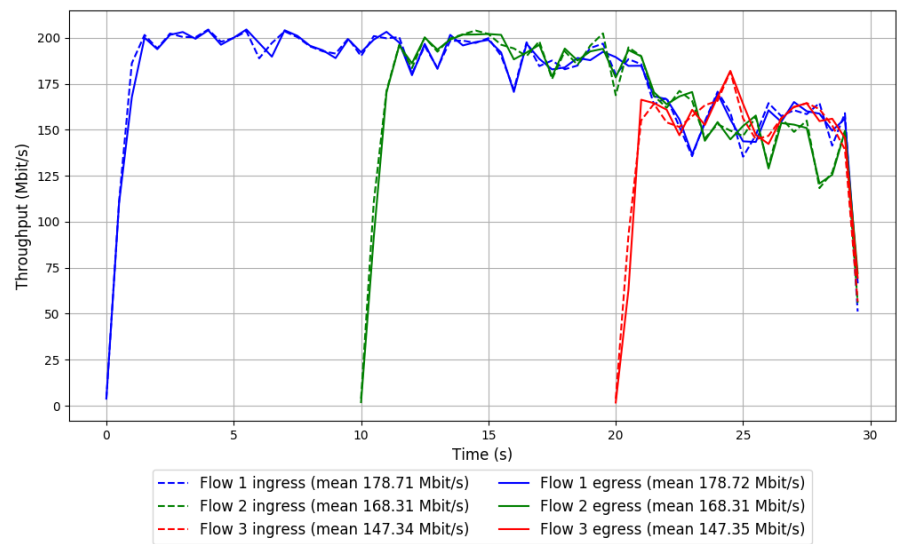
-- Flow 3:

Average throughput: 147.35 Mbit/s

95th percentile per-packet one-way delay: 60.563 ms

Loss rate: 0.00%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2017-12-06 06:24:57

End at: 2017-12-06 06:25:27

Below is generated by plot.py at 2017-12-06 09:53:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 338.88 Mbit/s

95th percentile per-packet one-way delay: 58.986 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 174.23 Mbit/s

95th percentile per-packet one-way delay: 56.392 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 174.13 Mbit/s

95th percentile per-packet one-way delay: 59.159 ms

Loss rate: 0.00%

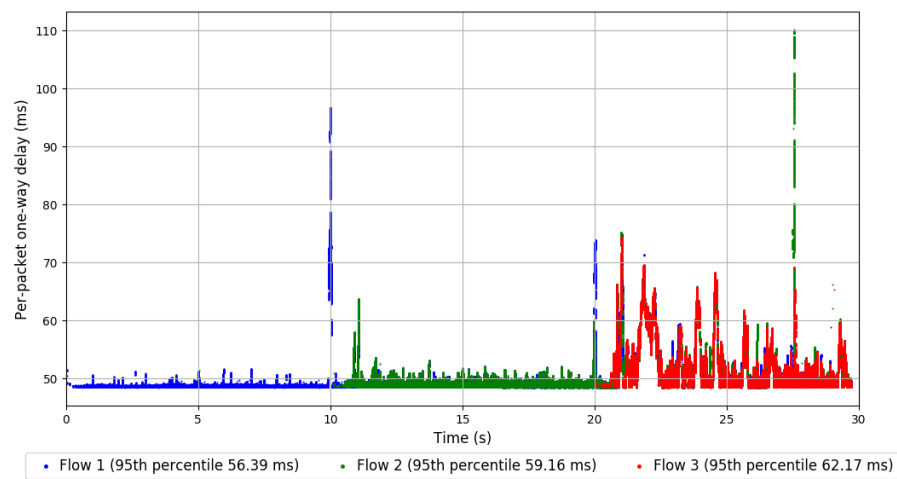
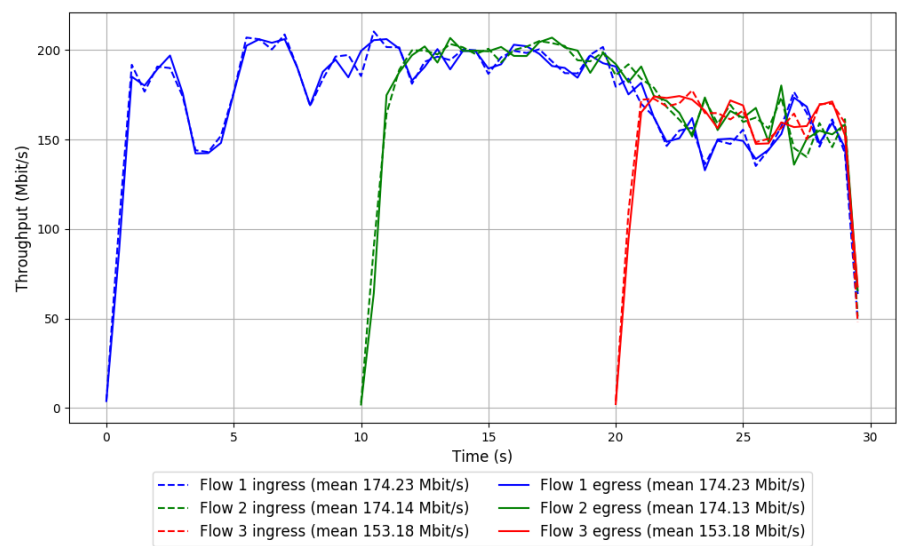
-- Flow 3:

Average throughput: 153.18 Mbit/s

95th percentile per-packet one-way delay: 62.172 ms

Loss rate: 0.00%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2017-12-06 06:37:15

End at: 2017-12-06 06:37:45

Below is generated by plot.py at 2017-12-06 09:53:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 324.38 Mbit/s

95th percentile per-packet one-way delay: 61.152 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 181.46 Mbit/s

95th percentile per-packet one-way delay: 57.340 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 172.27 Mbit/s

95th percentile per-packet one-way delay: 61.987 ms

Loss rate: 0.00%

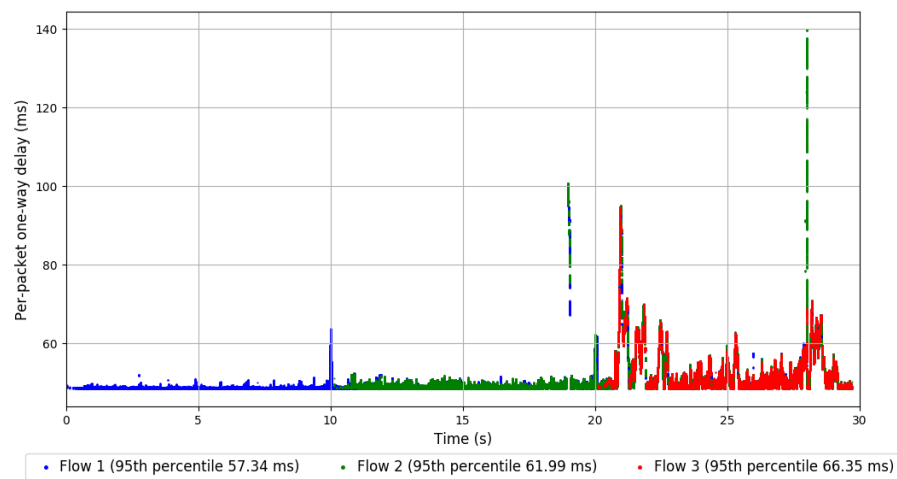
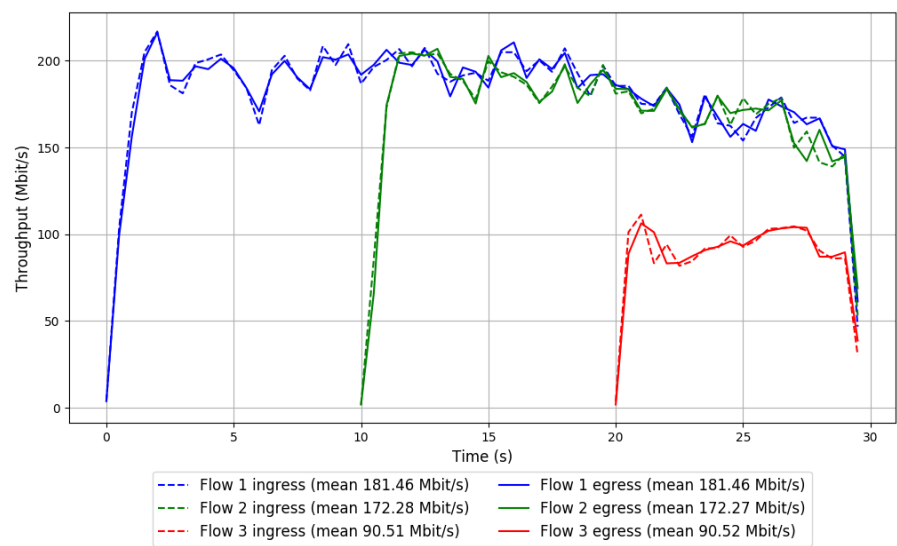
-- Flow 3:

Average throughput: 90.52 Mbit/s

95th percentile per-packet one-way delay: 66.346 ms

Loss rate: 0.00%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2017-12-06 06:49:27

End at: 2017-12-06 06:49:57

Below is generated by plot.py at 2017-12-06 09:54:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 347.66 Mbit/s

95th percentile per-packet one-way delay: 55.811 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 182.62 Mbit/s

95th percentile per-packet one-way delay: 54.558 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 172.95 Mbit/s

95th percentile per-packet one-way delay: 55.803 ms

Loss rate: 0.00%

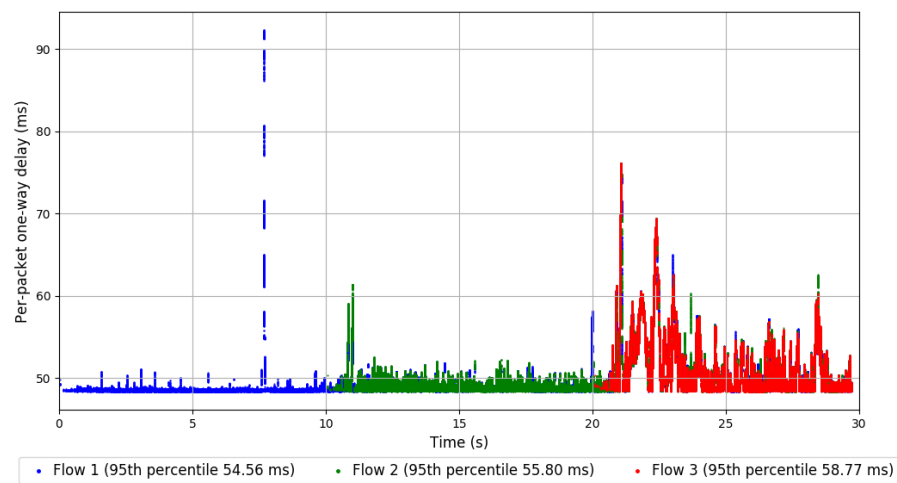
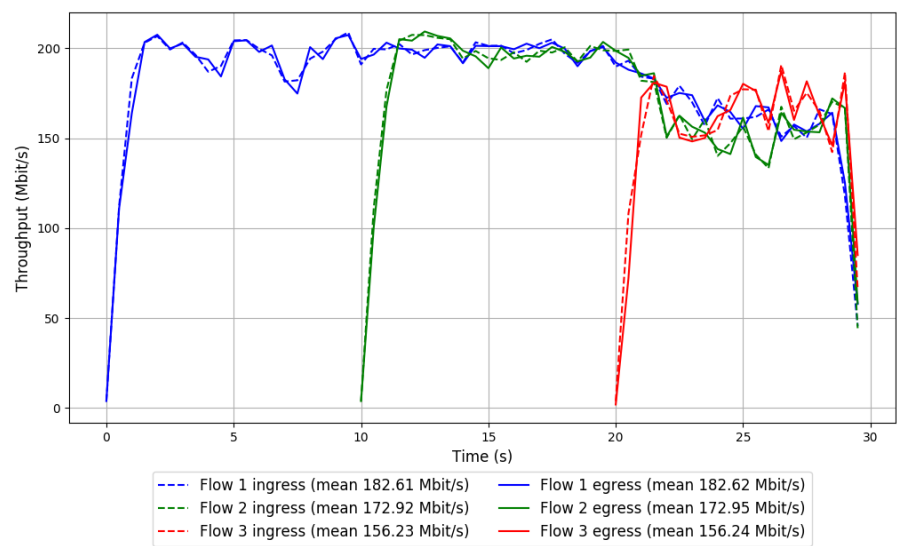
-- Flow 3:

Average throughput: 156.24 Mbit/s

95th percentile per-packet one-way delay: 58.772 ms

Loss rate: 0.00%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2017-12-06 07:01:41

End at: 2017-12-06 07:02:11

Below is generated by plot.py at 2017-12-06 09:56:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 339.66 Mbit/s

95th percentile per-packet one-way delay: 55.087 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 180.77 Mbit/s

95th percentile per-packet one-way delay: 53.146 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 169.53 Mbit/s

95th percentile per-packet one-way delay: 55.720 ms

Loss rate: 0.00%

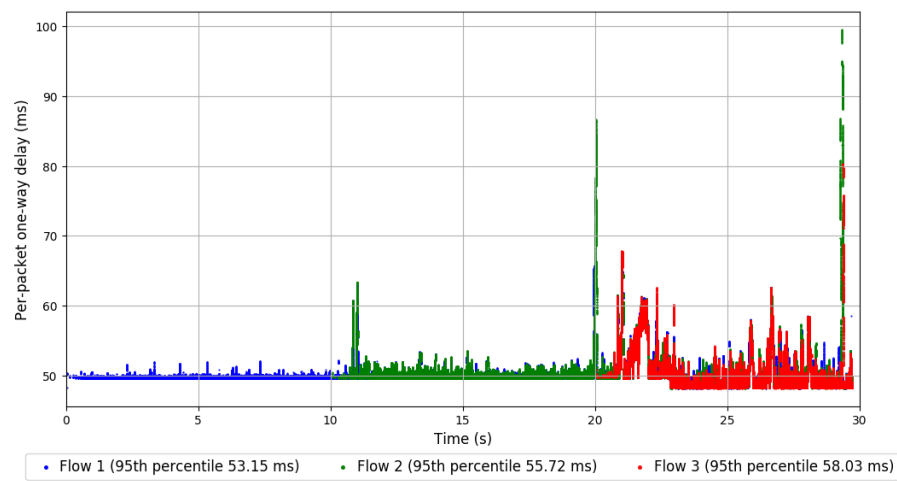
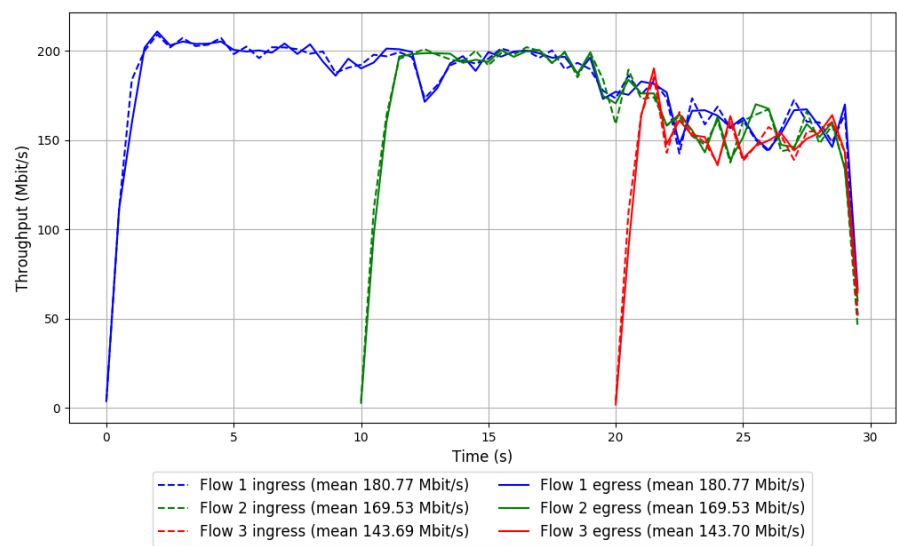
-- Flow 3:

Average throughput: 143.70 Mbit/s

95th percentile per-packet one-way delay: 58.031 ms

Loss rate: 0.00%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2017-12-06 07:13:44

End at: 2017-12-06 07:14:14

Below is generated by plot.py at 2017-12-06 09:57:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 330.26 Mbit/s

95th percentile per-packet one-way delay: 56.199 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 181.01 Mbit/s

95th percentile per-packet one-way delay: 54.896 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 169.84 Mbit/s

95th percentile per-packet one-way delay: 56.755 ms

Loss rate: 0.00%

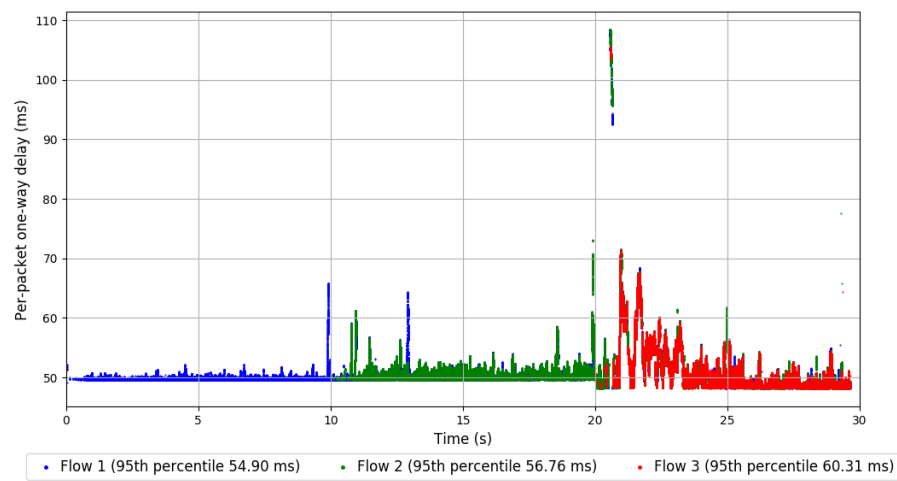
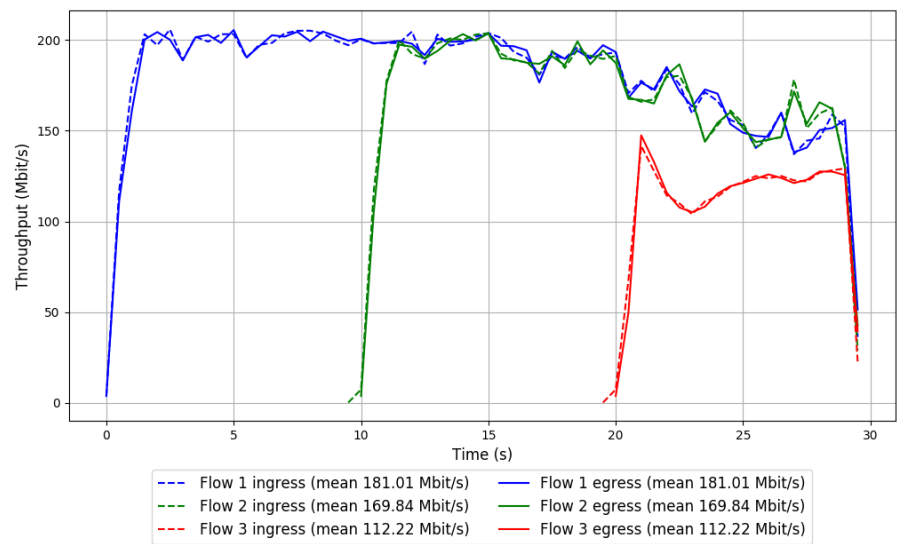
-- Flow 3:

Average throughput: 112.22 Mbit/s

95th percentile per-packet one-way delay: 60.309 ms

Loss rate: 0.01%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2017-12-06 07:25:59

End at: 2017-12-06 07:26:29

Below is generated by plot.py at 2017-12-06 09:57:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 343.70 Mbit/s

95th percentile per-packet one-way delay: 57.195 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 178.70 Mbit/s

95th percentile per-packet one-way delay: 55.487 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 175.76 Mbit/s

95th percentile per-packet one-way delay: 57.850 ms

Loss rate: 0.01%

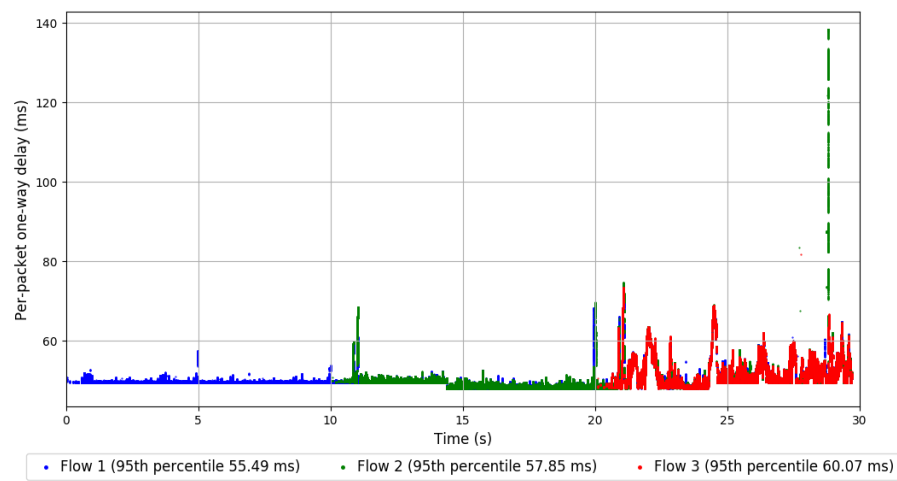
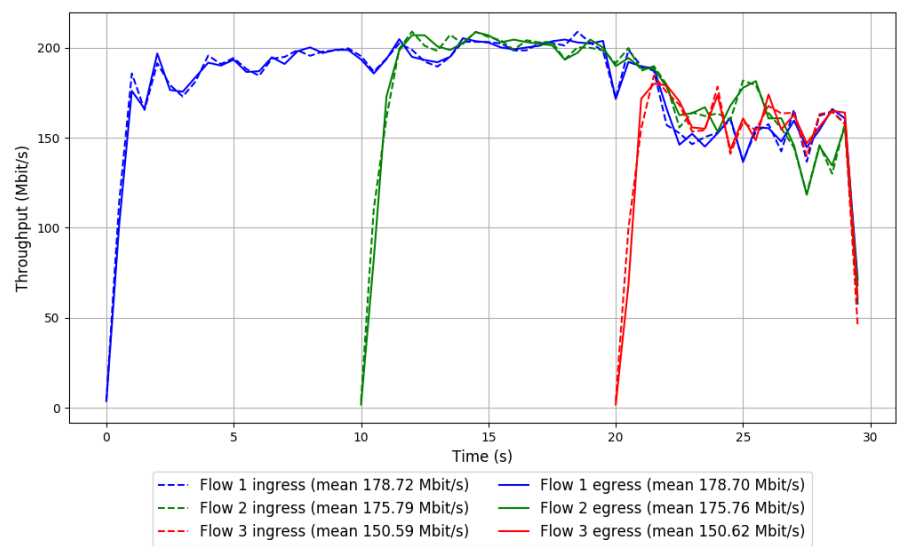
-- Flow 3:

Average throughput: 150.62 Mbit/s

95th percentile per-packet one-way delay: 60.071 ms

Loss rate: 0.01%

Run 10: Report of Indigo — Data Link

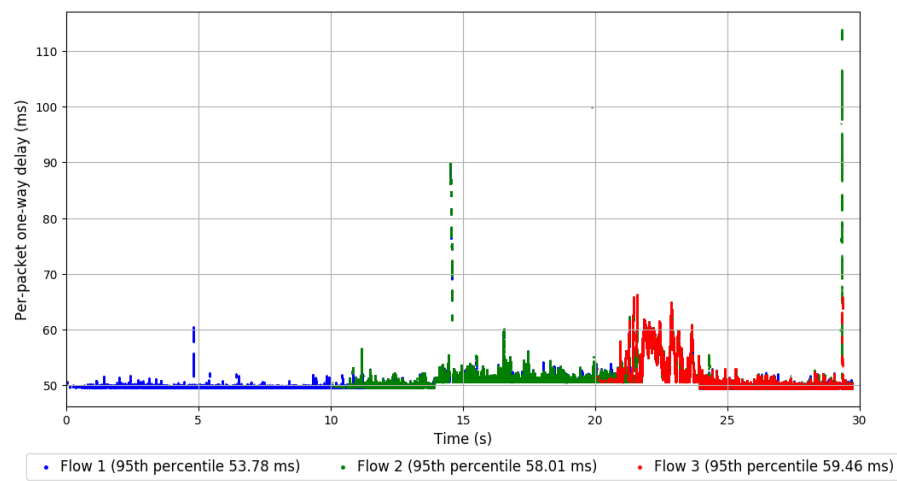
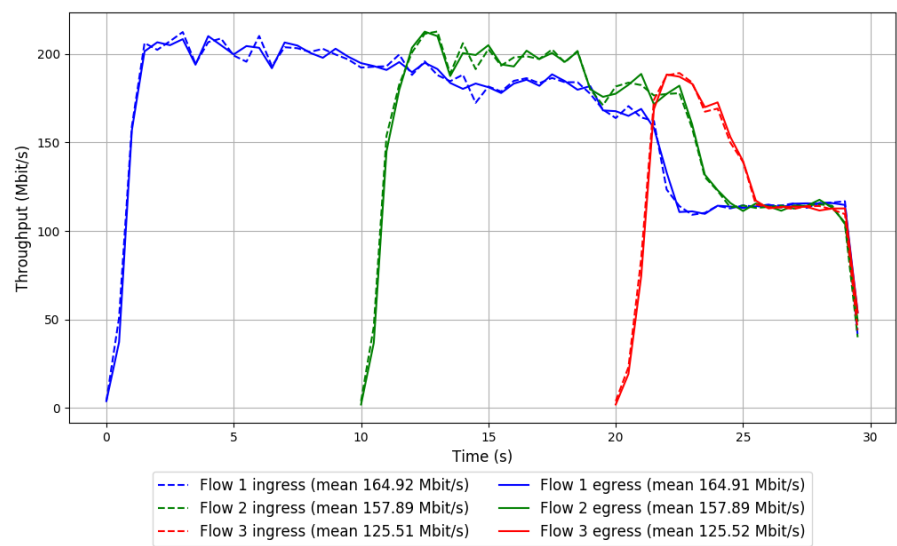


```
Run 1: Statistics of Indigo-calib

Start at: 2017-12-06 05:42:20
End at: 2017-12-06 05:42:50

# Below is generated by plot.py at 2017-12-06 09:58:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 310.10 Mbit/s
95th percentile per-packet one-way delay: 57.632 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 164.91 Mbit/s
95th percentile per-packet one-way delay: 53.778 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 157.89 Mbit/s
95th percentile per-packet one-way delay: 58.009 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 125.52 Mbit/s
95th percentile per-packet one-way delay: 59.456 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo-calib — Data Link

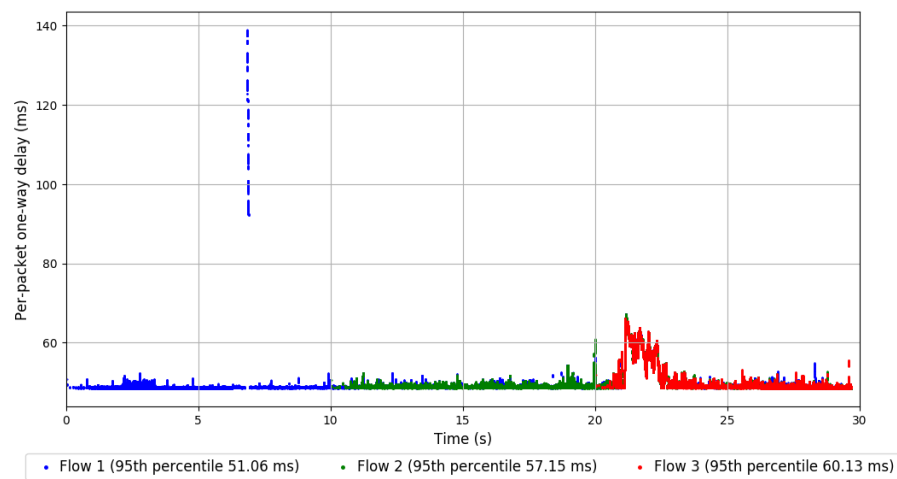
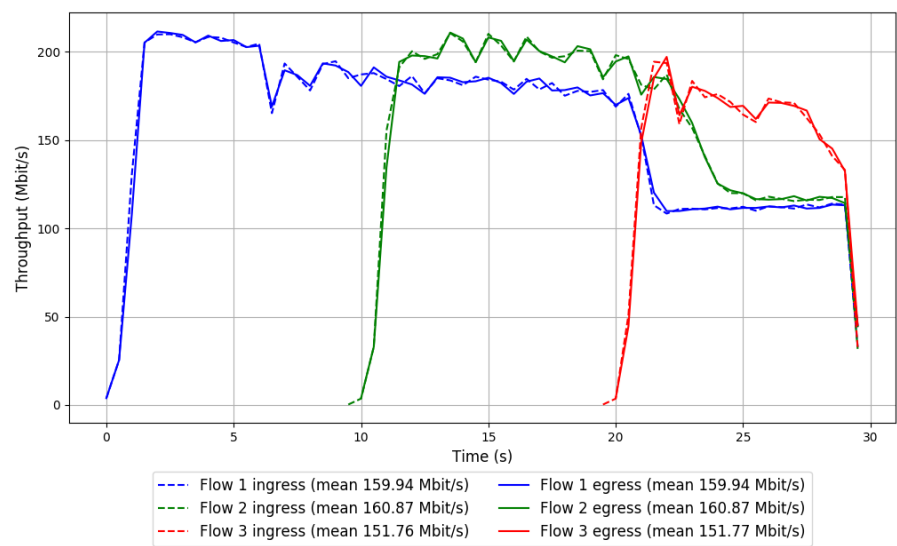


```
Run 2: Statistics of Indigo-calib

Start at: 2017-12-06 05:54:27
End at: 2017-12-06 05:54:57

# Below is generated by plot.py at 2017-12-06 09:59:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 316.00 Mbit/s
95th percentile per-packet one-way delay: 56.975 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 159.94 Mbit/s
95th percentile per-packet one-way delay: 51.062 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 160.87 Mbit/s
95th percentile per-packet one-way delay: 57.148 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 151.77 Mbit/s
95th percentile per-packet one-way delay: 60.132 ms
Loss rate: 0.00%
```

Run 2: Report of Indigo-calib — Data Link



Run 3: Statistics of Indigo-calib

Start at: 2017-12-06 06:06:43

End at: 2017-12-06 06:07:13

Below is generated by plot.py at 2017-12-06 09:59:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 303.64 Mbit/s

95th percentile per-packet one-way delay: 50.806 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 163.96 Mbit/s

95th percentile per-packet one-way delay: 50.250 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 152.91 Mbit/s

95th percentile per-packet one-way delay: 51.314 ms

Loss rate: 0.00%

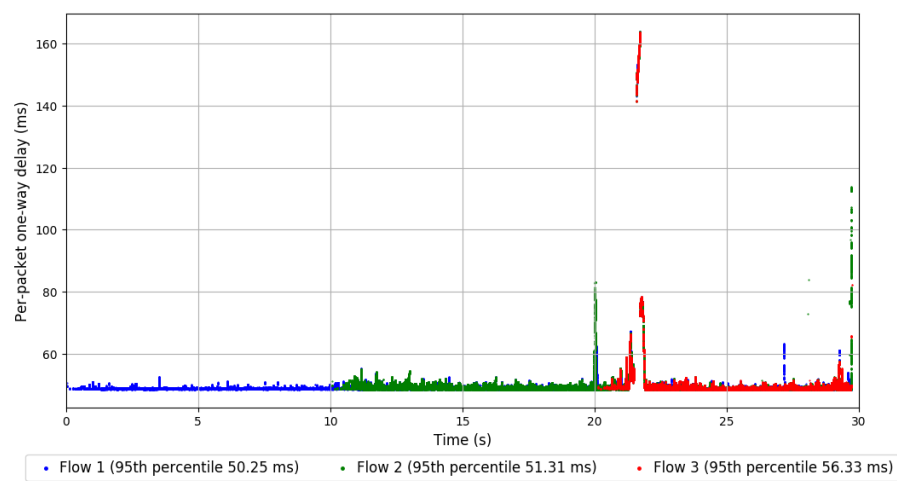
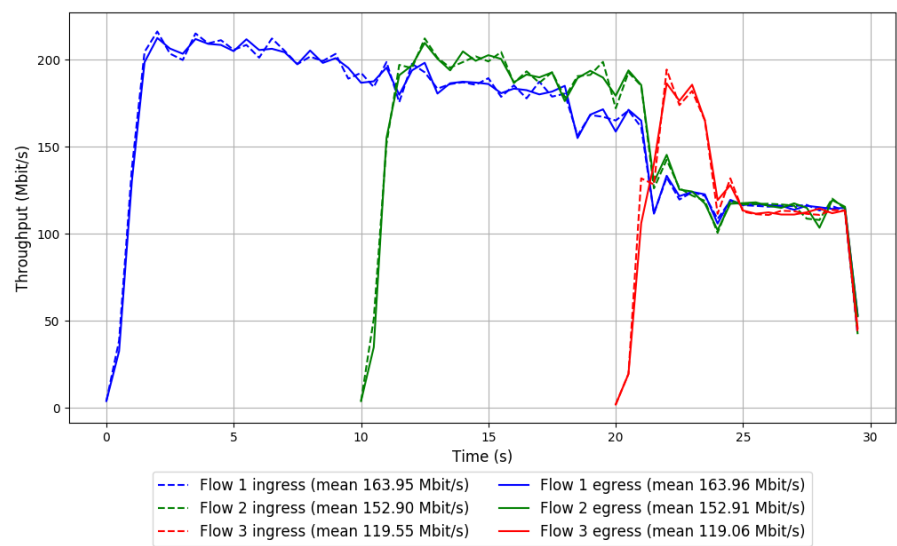
-- Flow 3:

Average throughput: 119.06 Mbit/s

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

Loss rate: 0.33%

Run 3: Report of Indigo-calib — Data Link



Run 4: Statistics of Indigo-calib

Start at: 2017-12-06 06:19:00

End at: 2017-12-06 06:19:30

Below is generated by plot.py at 2017-12-06 09:59:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 309.83 Mbit/s

95th percentile per-packet one-way delay: 50.860 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 161.33 Mbit/s

95th percentile per-packet one-way delay: 49.967 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 161.56 Mbit/s

95th percentile per-packet one-way delay: 50.848 ms

Loss rate: 0.01%

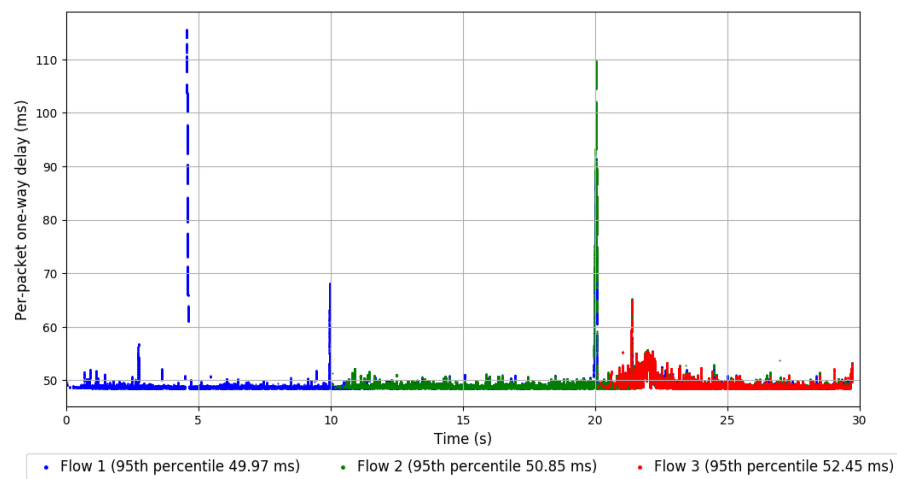
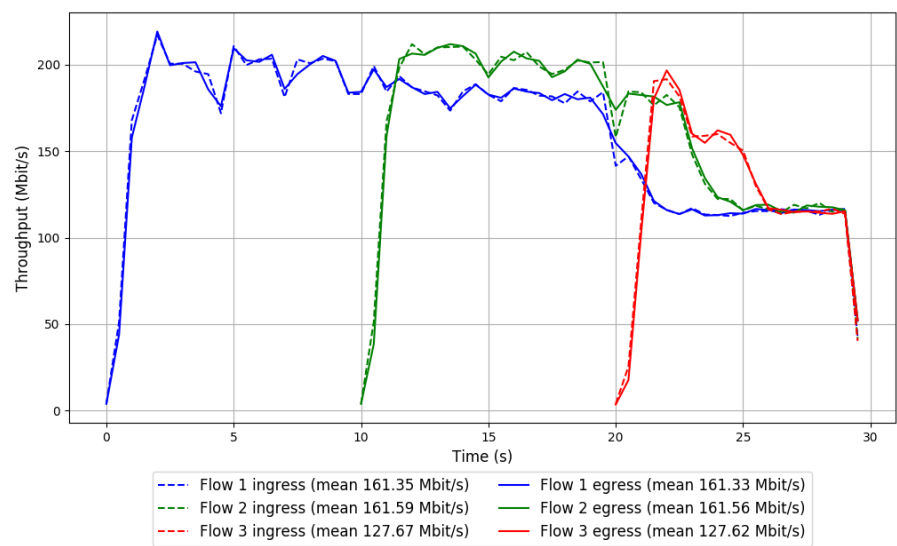
-- Flow 3:

Average throughput: 127.62 Mbit/s

95th percentile per-packet one-way delay: 52.451 ms

Loss rate: 0.01%

Run 4: Report of Indigo-calib — Data Link

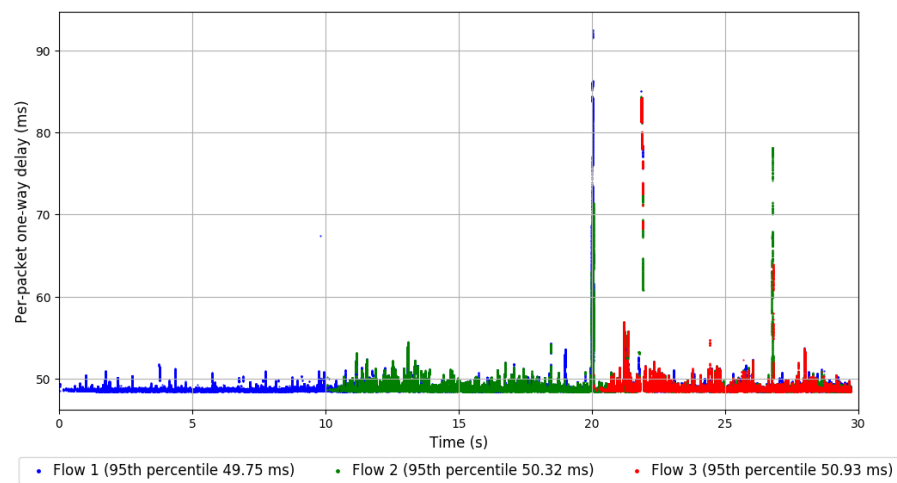
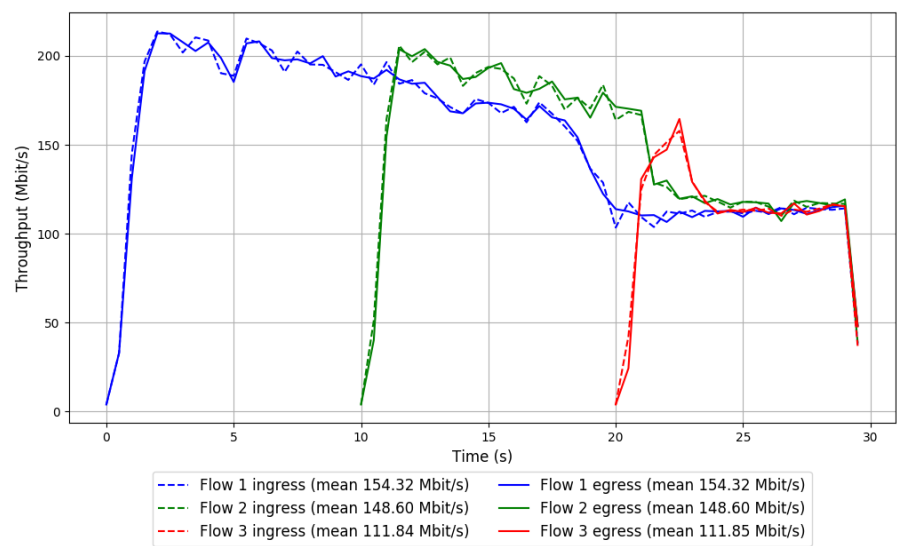


```
Run 5: Statistics of Indigo-calib

Start at: 2017-12-06 06:31:12
End at: 2017-12-06 06:31:42

# Below is generated by plot.py at 2017-12-06 09:59:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 289.14 Mbit/s
95th percentile per-packet one-way delay: 50.055 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 154.32 Mbit/s
95th percentile per-packet one-way delay: 49.750 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 148.60 Mbit/s
95th percentile per-packet one-way delay: 50.317 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 111.85 Mbit/s
95th percentile per-packet one-way delay: 50.934 ms
Loss rate: 0.00%
```

Run 5: Report of Indigo-calib — Data Link

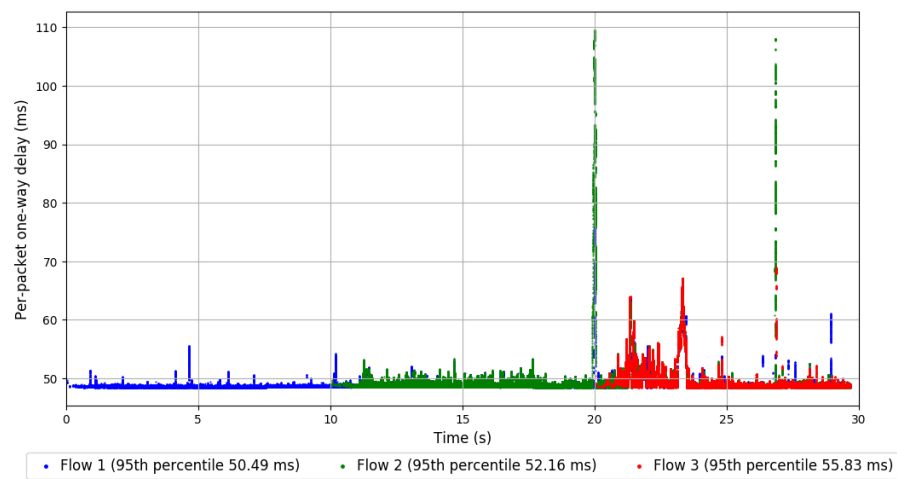
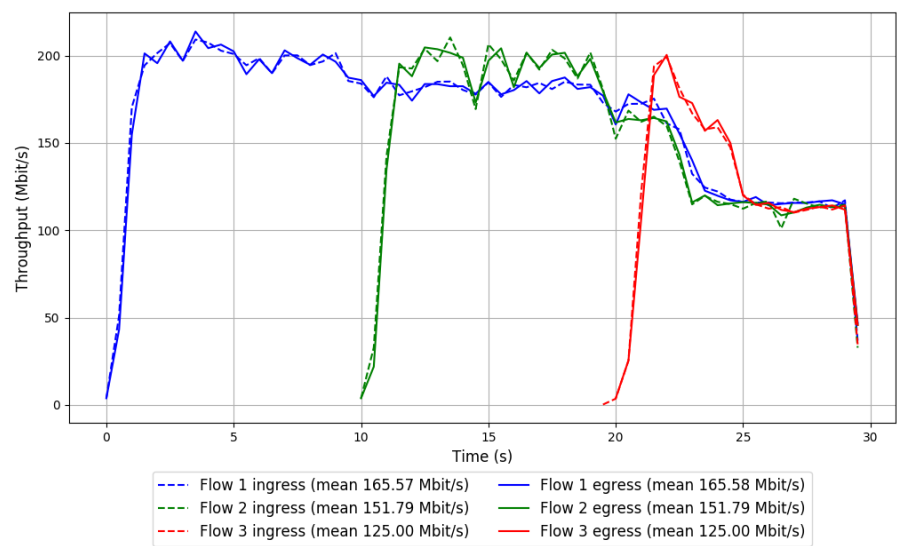


```
Run 6: Statistics of Indigo-calib

Start at: 2017-12-06 06:43:36
End at: 2017-12-06 06:44:06

# Below is generated by plot.py at 2017-12-06 10:00:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 306.77 Mbit/s
95th percentile per-packet one-way delay: 51.898 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 165.58 Mbit/s
95th percentile per-packet one-way delay: 50.495 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 151.79 Mbit/s
95th percentile per-packet one-way delay: 52.164 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 125.00 Mbit/s
95th percentile per-packet one-way delay: 55.826 ms
Loss rate: 0.00%
```

Run 6: Report of Indigo-calib — Data Link



Run 7: Statistics of Indigo-calib

Start at: 2017-12-06 06:55:37

End at: 2017-12-06 06:56:07

Below is generated by plot.py at 2017-12-06 10:01:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 318.03 Mbit/s

95th percentile per-packet one-way delay: 51.017 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 166.32 Mbit/s

95th percentile per-packet one-way delay: 50.405 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 159.00 Mbit/s

95th percentile per-packet one-way delay: 51.088 ms

Loss rate: 0.00%

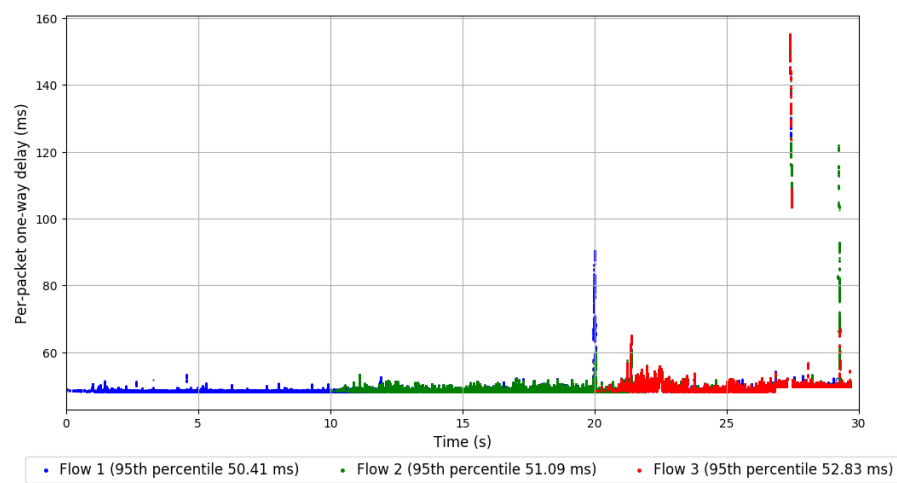
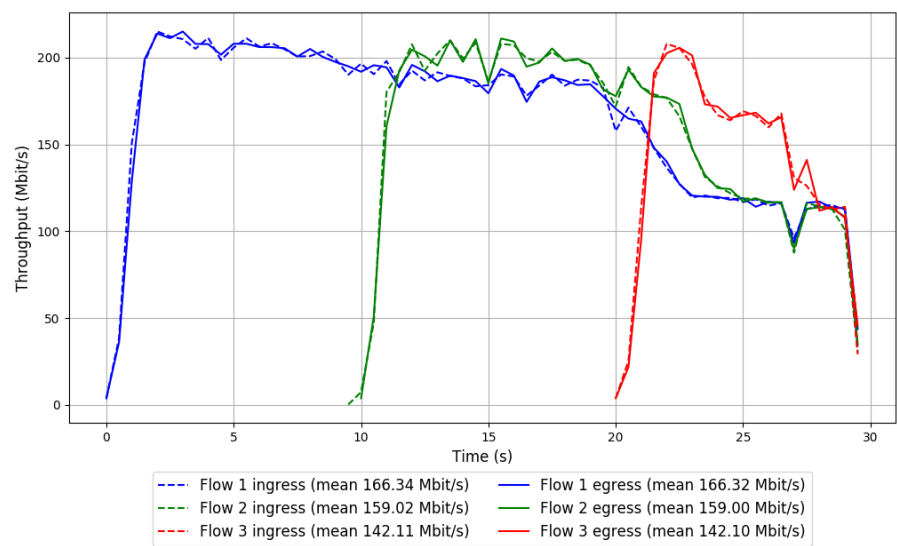
-- Flow 3:

Average throughput: 142.10 Mbit/s

95th percentile per-packet one-way delay: 52.830 ms

Loss rate: 0.00%

Run 7: Report of Indigo-calib — Data Link



Run 8: Statistics of Indigo-calib

Start at: 2017-12-06 07:07:53

End at: 2017-12-06 07:08:23

Below is generated by plot.py at 2017-12-06 10:01:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 306.27 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 155.77 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 146.46 Mbit/s

95th percentile per-packet one-way delay: 51.432 ms

Loss rate: 0.00%

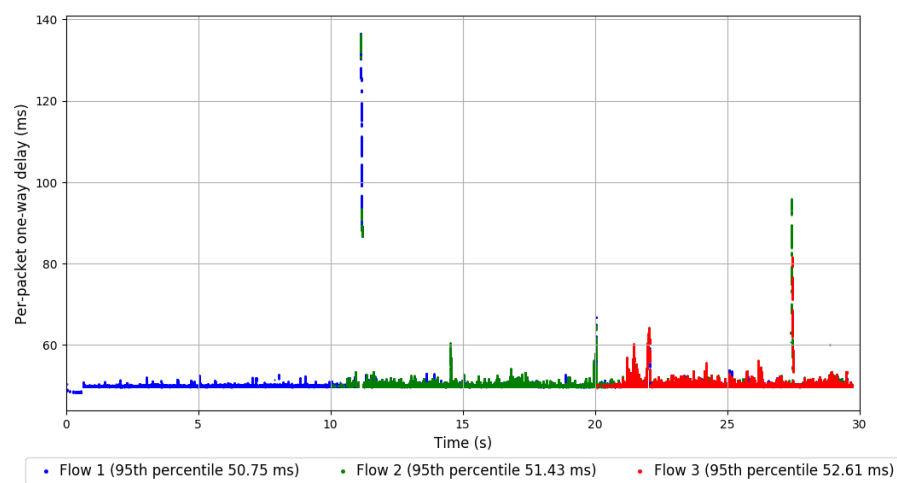
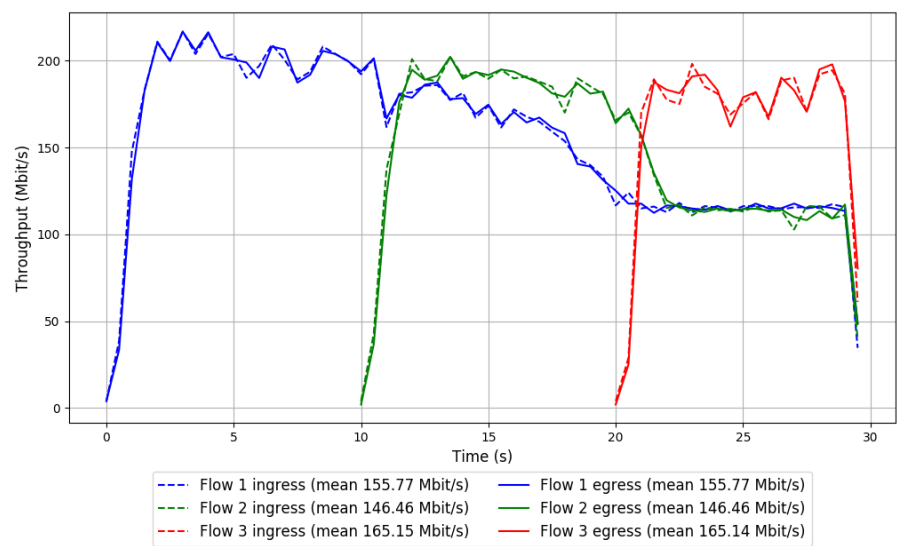
-- Flow 3:

Average throughput: 165.14 Mbit/s

95th percentile per-packet one-way delay: 52.614 ms

Loss rate: 0.00%

Run 8: Report of Indigo-calib — Data Link

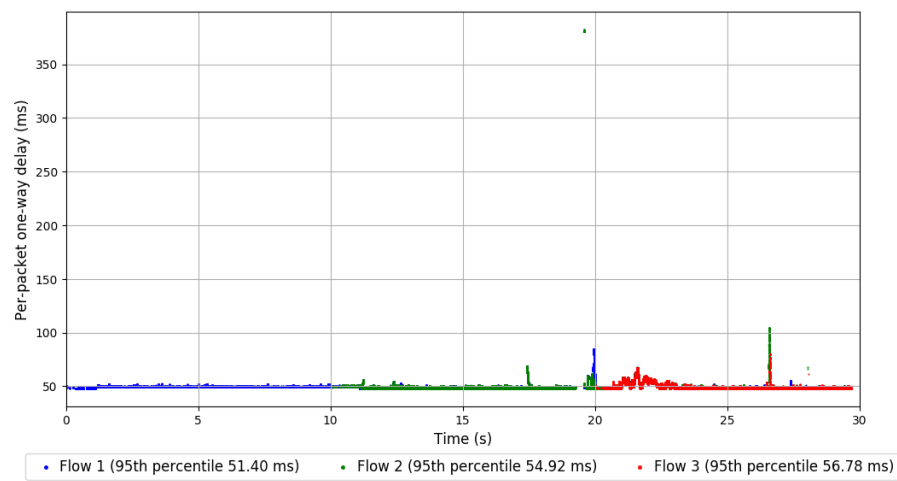
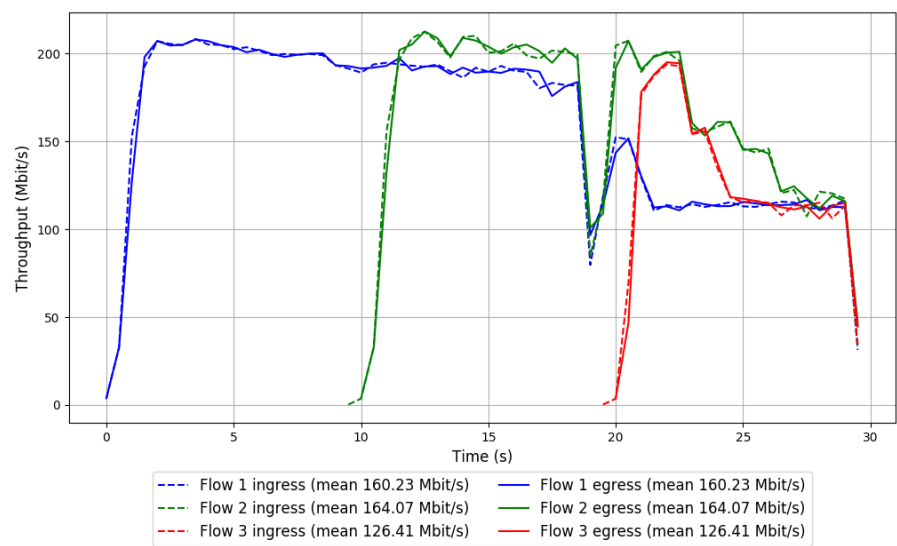


```
Run 9: Statistics of Indigo-calib

Start at: 2017-12-06 07:20:03
End at: 2017-12-06 07:20:33

# Below is generated by plot.py at 2017-12-06 10:01:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 310.15 Mbit/s
95th percentile per-packet one-way delay: 54.509 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 160.23 Mbit/s
95th percentile per-packet one-way delay: 51.400 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 164.07 Mbit/s
95th percentile per-packet one-way delay: 54.925 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 126.41 Mbit/s
95th percentile per-packet one-way delay: 56.783 ms
Loss rate: 0.00%
```

Run 9: Report of Indigo-calib — Data Link



Run 10: Statistics of Indigo-calib

Start at: 2017-12-06 07:32:13

End at: 2017-12-06 07:32:43

Below is generated by plot.py at 2017-12-06 10:01:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 325.24 Mbit/s

95th percentile per-packet one-way delay: 56.735 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 163.88 Mbit/s

95th percentile per-packet one-way delay: 53.332 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 163.78 Mbit/s

95th percentile per-packet one-way delay: 57.203 ms

Loss rate: 0.00%

-- Flow 3:

Average throughput: 163.12 Mbit/s

95th percentile per-packet one-way delay: 63.786 ms

Loss rate: 0.00%

Run 10: Report of Indigo-calib — Data Link

