

Pantheon Report

Generated at 2017-12-01 14:07:47 (UTC).

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

Repeated the test of 14 congestion control schemes 10 times.

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

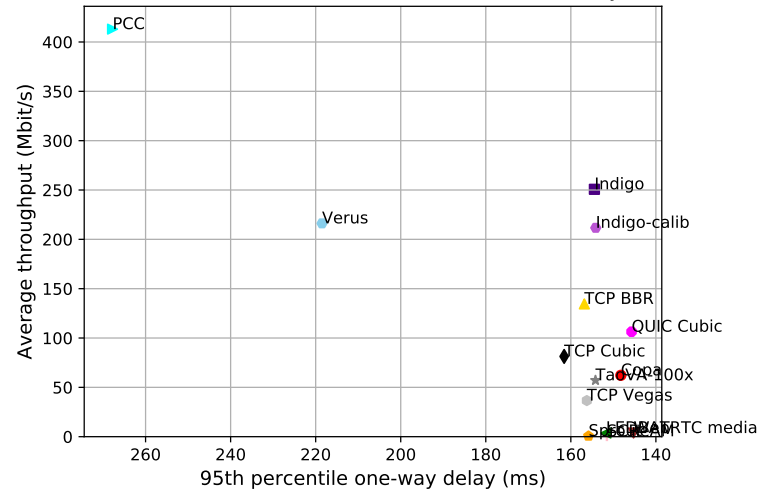
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

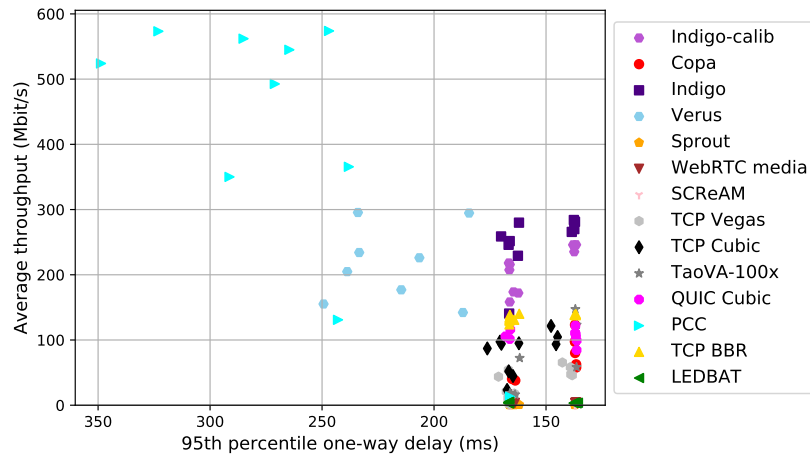
Git summary:

```
branch: indigos @ e3a57ad5ac5cfcaca0e3f983c8dd4cc3509e0262
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
M datagrump/sender.cc
third_party/genericCC @ b5b7c38e8391001927dc41c6cfa2627d03dde737
third_party/indigo @ b19f3730105f9aa95452552af924e3719b03cc55
third_party/indigo-cellular @ aee99e8eb842cb053f8c9a80e28cd256a930bbc2
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/indigo-no-cwnd @ 3e58442c04028a11d7b02456e137604633ba2d6c
third_party/indigo-no-delivery-rate @ 57caa40858b964906edff4876d5a7e5bfff666c5
third_party/indigo-no-queuing-delay @ 03455460fd1a8ffbdad86fabb936fdca204b80db
third_party/indigo-no-send-rate @ b39dfa6b2c5f19cb7cd89626cb4f5bb81f9fecda
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ baf443516dea3eeddeccaf9b916cc313273ca4f4
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eaeeb30b267cde681
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 London Ethernet to GCE Sydney Ethernet, 10 runs of 30s each per scheme
3 flows with 10s interval between flows (mean of all runs by scheme)



test from GCE London Ethernet to GCE Sydney 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	70.02	68.39	59.21	156.83	151.03	148.02	1.05	1.61	3.69
TCP Cubic	10	47.74	37.10	28.07	161.08	159.19	156.59	1.08	2.48	4.85
LEDBAT	10	2.43	1.51	0.80	151.76	151.64	151.51	1.72	3.08	5.73
PCC	10	287.71	146.52	89.40	259.74	235.32	244.35	3.23	3.19	5.76
QUIC Cubic	10	57.91	53.49	40.56	142.28	148.36	139.01	1.16	1.03	3.32
SCReAM	6	0.20	0.22	0.21	151.47	136.62	141.42	0.89	1.42	2.63
WebRTC media	10	2.06	1.24	0.39	142.12	144.36	151.08	0.93	1.87	5.47
Sprout	9	0.37	0.33	0.47	155.85	152.87	148.66	0.78	1.19	2.00
TaoVA-100x	8	9.64	66.07	40.13	161.26	147.50	154.50	0.72	0.98	1.05
TCP Vegas	10	16.06	17.82	26.99	154.80	155.60	154.93	1.09	1.47	2.92
Verus	8	134.41	87.63	76.84	219.46	226.31	240.59	0.90	2.25	6.24
Copa	10	34.50	38.62	22.12	151.02	148.28	148.13	0.51	2.36	5.14
Indigo	10	132.67	124.86	110.85	154.14	156.26	149.93	0.96	1.43	3.89
Indigo-calib	10	119.99	90.88	98.86	153.99	154.43	148.70	1.03	1.54	4.09

Run 1: Statistics of TCP BBR

Start at: 2017-12-01 08:57:29

End at: 2017-12-01 08:57:59

Below is generated by plot.py at 2017-12-01 13:32:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 140.22 Mbit/s

95th percentile per-packet one-way delay: 161.947 ms

Loss rate: 1.52%

-- Flow 1:

Average throughput: 73.21 Mbit/s

95th percentile per-packet one-way delay: 162.012 ms

Loss rate: 0.97%

-- Flow 2:

Average throughput: 69.70 Mbit/s

95th percentile per-packet one-way delay: 135.101 ms

Loss rate: 1.53%

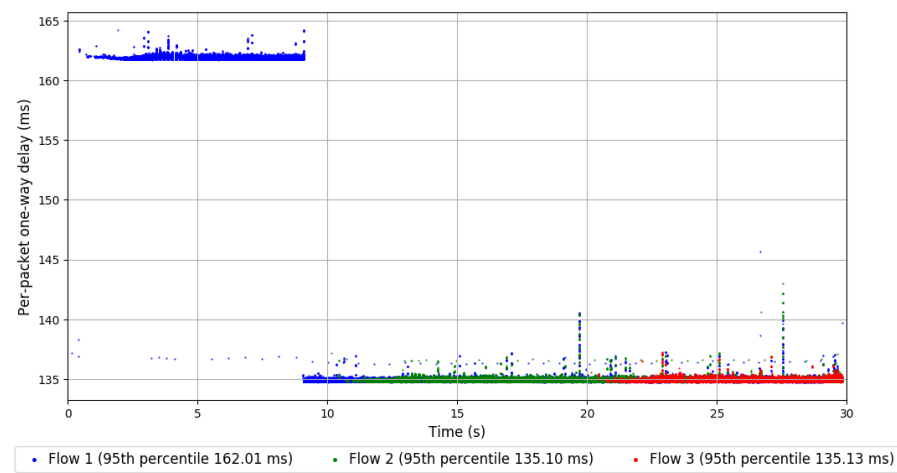
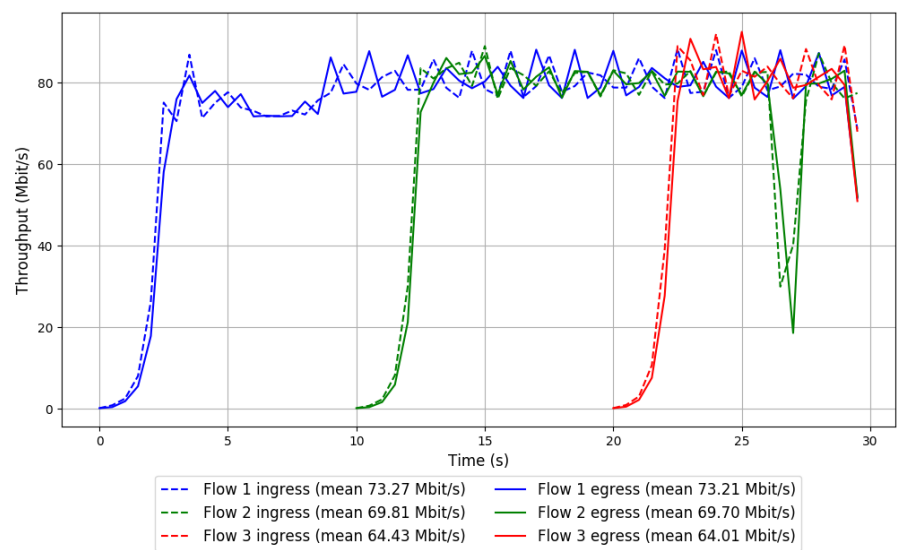
-- Flow 3:

Average throughput: 64.01 Mbit/s

95th percentile per-packet one-way delay: 135.131 ms

Loss rate: 3.36%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2017-12-01 09:11:32

End at: 2017-12-01 09:12:02

Below is generated by plot.py at 2017-12-01 13:32:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 139.77 Mbit/s

95th percentile per-packet one-way delay: 136.673 ms

Loss rate: 1.52%

-- Flow 1:

Average throughput: 73.73 Mbit/s

95th percentile per-packet one-way delay: 136.678 ms

Loss rate: 0.97%

-- Flow 2:

Average throughput: 68.98 Mbit/s

95th percentile per-packet one-way delay: 136.634 ms

Loss rate: 1.55%

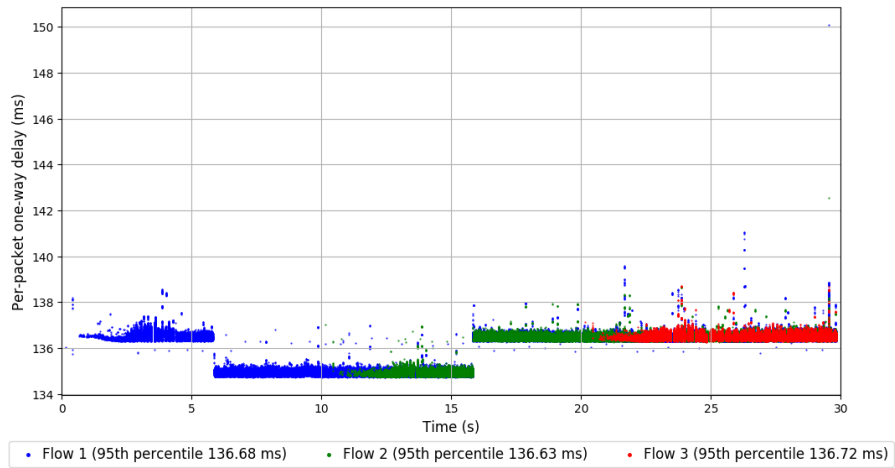
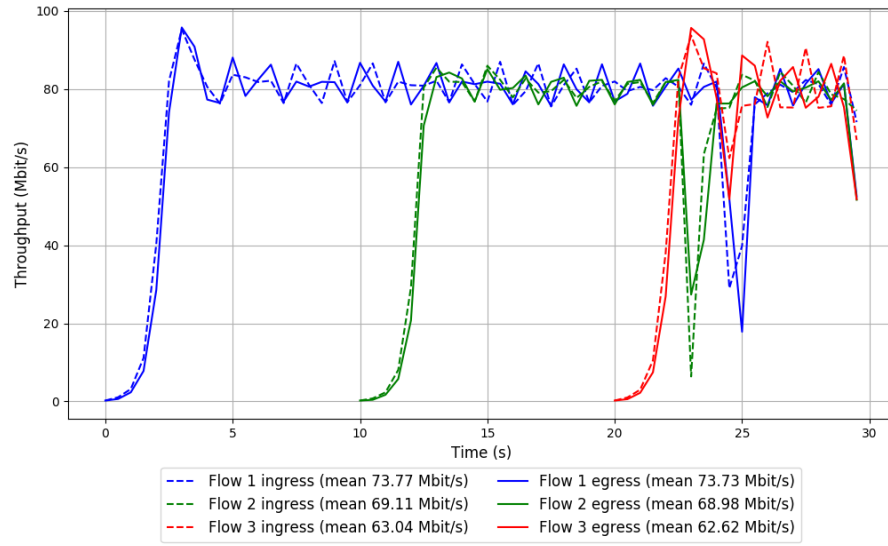
-- Flow 3:

Average throughput: 62.62 Mbit/s

95th percentile per-packet one-way delay: 136.724 ms

Loss rate: 3.42%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2017-12-01 09:25:11

End at: 2017-12-01 09:25:41

Below is generated by plot.py at 2017-12-01 13:32:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 137.94 Mbit/s

95th percentile per-packet one-way delay: 136.716 ms

Loss rate: 1.52%

-- Flow 1:

Average throughput: 73.47 Mbit/s

95th percentile per-packet one-way delay: 136.708 ms

Loss rate: 0.97%

-- Flow 2:

Average throughput: 69.92 Mbit/s

95th percentile per-packet one-way delay: 136.703 ms

Loss rate: 1.53%

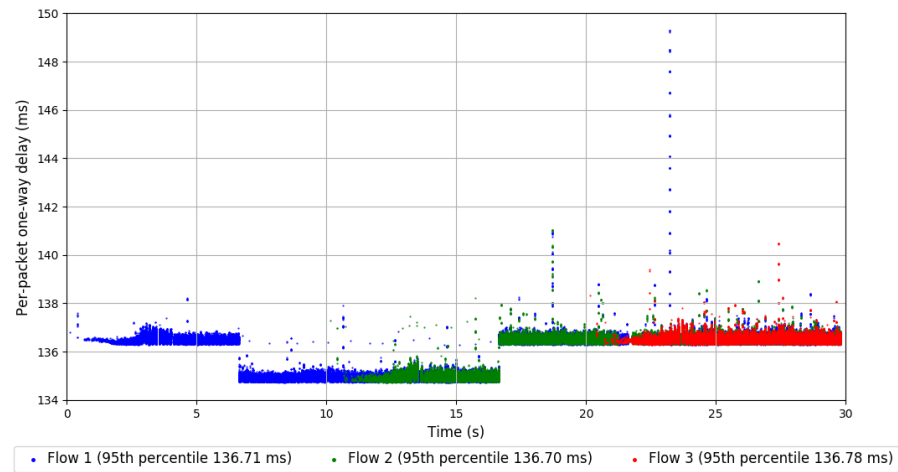
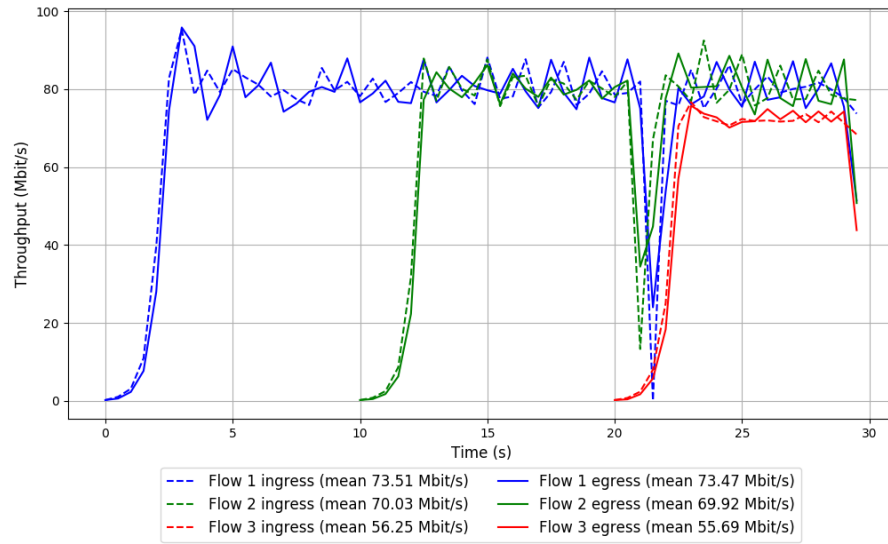
-- Flow 3:

Average throughput: 55.69 Mbit/s

95th percentile per-packet one-way delay: 136.779 ms

Loss rate: 3.70%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2017-12-01 09:39:00

End at: 2017-12-01 09:39:30

Below is generated by plot.py at 2017-12-01 13:32:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 131.02 Mbit/s

95th percentile per-packet one-way delay: 164.191 ms

Loss rate: 1.62%

-- Flow 1:

Average throughput: 69.09 Mbit/s

95th percentile per-packet one-way delay: 164.131 ms

Loss rate: 1.03%

-- Flow 2:

Average throughput: 65.68 Mbit/s

95th percentile per-packet one-way delay: 164.198 ms

Loss rate: 1.62%

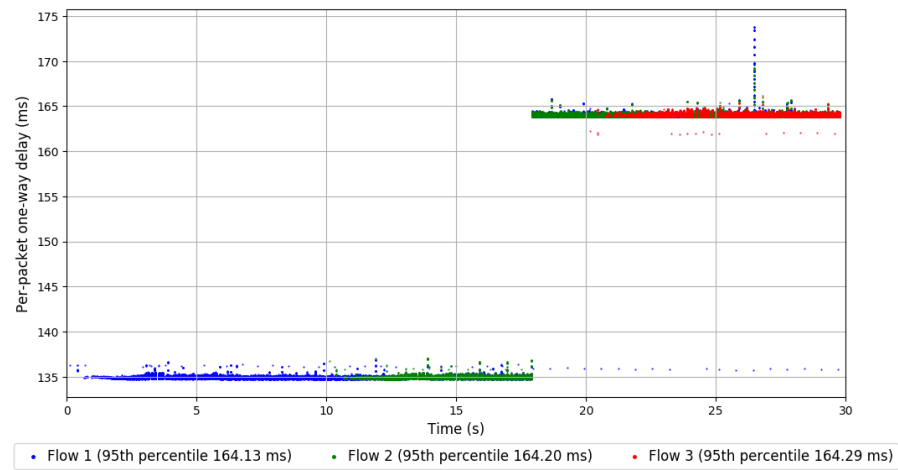
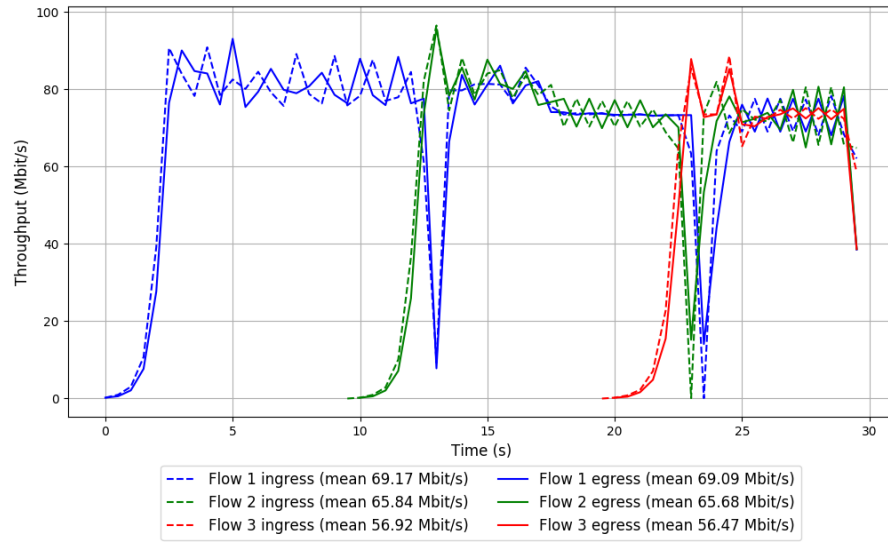
-- Flow 3:

Average throughput: 56.47 Mbit/s

95th percentile per-packet one-way delay: 164.290 ms

Loss rate: 3.77%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2017-12-01 09:52:42

End at: 2017-12-01 09:53:12

Below is generated by plot.py at 2017-12-01 13:32:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 123.92 Mbit/s

95th percentile per-packet one-way delay: 166.335 ms

Loss rate: 1.85%

-- Flow 1:

Average throughput: 64.46 Mbit/s

95th percentile per-packet one-way delay: 166.310 ms

Loss rate: 1.24%

-- Flow 2:

Average throughput: 64.32 Mbit/s

95th percentile per-packet one-way delay: 166.358 ms

Loss rate: 1.79%

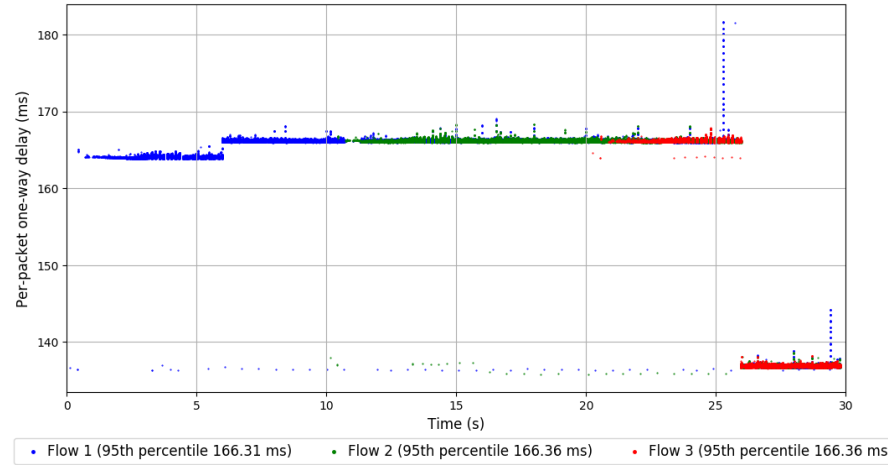
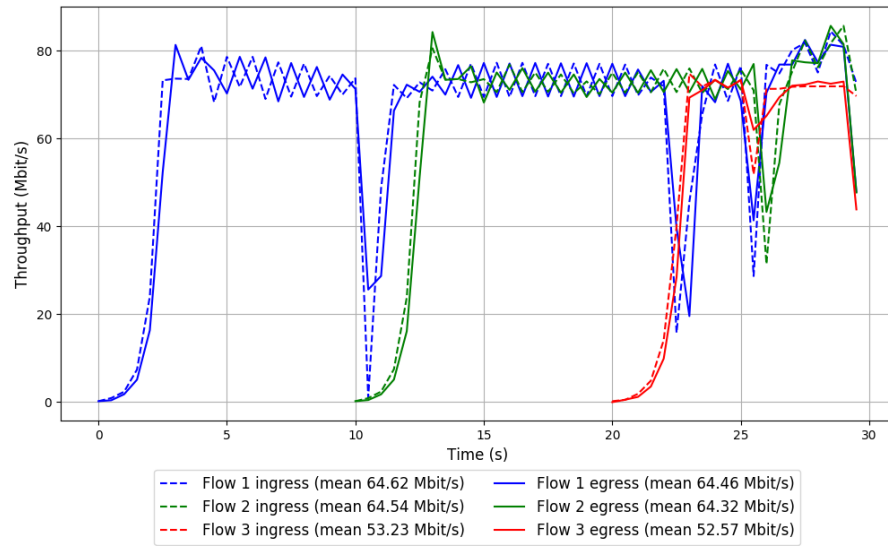
-- Flow 3:

Average throughput: 52.57 Mbit/s

95th percentile per-packet one-way delay: 166.362 ms

Loss rate: 4.26%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2017-12-01 10:05:58

End at: 2017-12-01 10:06:28

Below is generated by plot.py at 2017-12-01 13:32:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 138.55 Mbit/s

95th percentile per-packet one-way delay: 166.147 ms

Loss rate: 1.72%

-- Flow 1:

Average throughput: 70.68 Mbit/s

95th percentile per-packet one-way delay: 166.212 ms

Loss rate: 1.12%

-- Flow 2:

Average throughput: 70.71 Mbit/s

95th percentile per-packet one-way delay: 135.153 ms

Loss rate: 1.70%

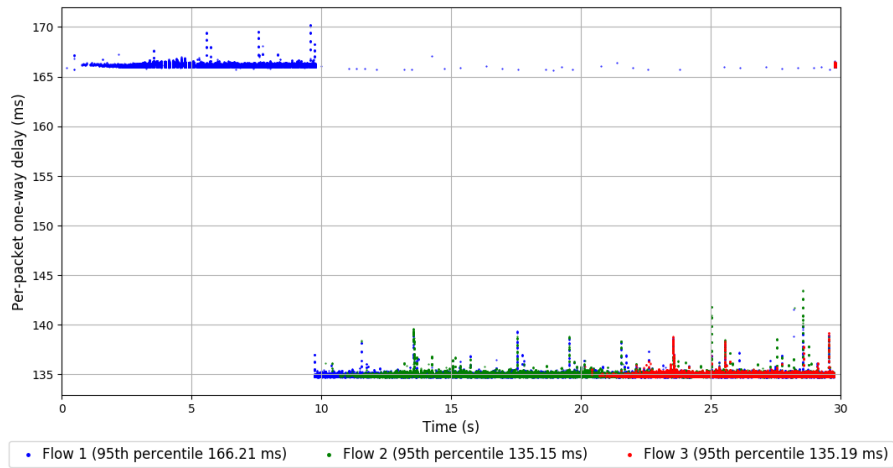
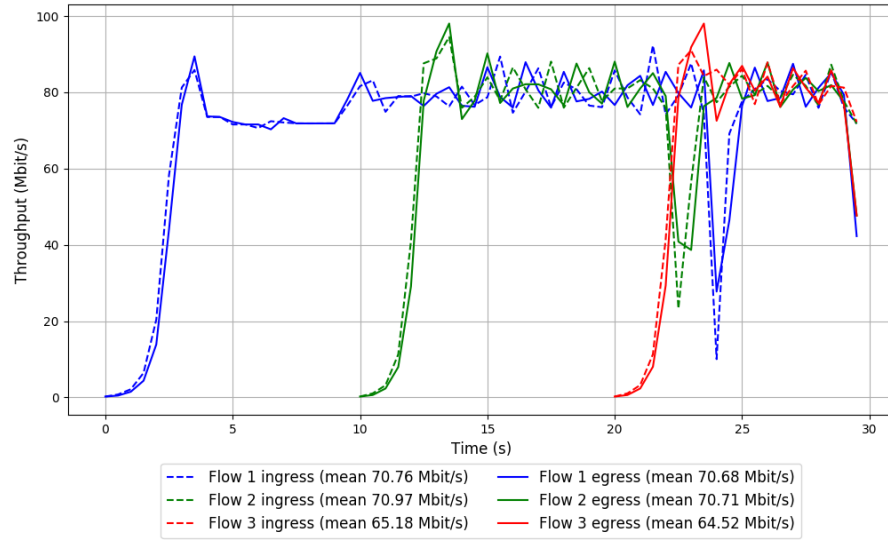
-- Flow 3:

Average throughput: 64.52 Mbit/s

95th percentile per-packet one-way delay: 135.188 ms

Loss rate: 3.73%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2017-12-01 10:19:25

End at: 2017-12-01 10:19:55

Below is generated by plot.py at 2017-12-01 13:32:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 131.68 Mbit/s

95th percentile per-packet one-way delay: 166.299 ms

Loss rate: 1.60%

-- Flow 1:

Average throughput: 67.13 Mbit/s

95th percentile per-packet one-way delay: 166.284 ms

Loss rate: 1.02%

-- Flow 2:

Average throughput: 69.26 Mbit/s

95th percentile per-packet one-way delay: 166.269 ms

Loss rate: 1.56%

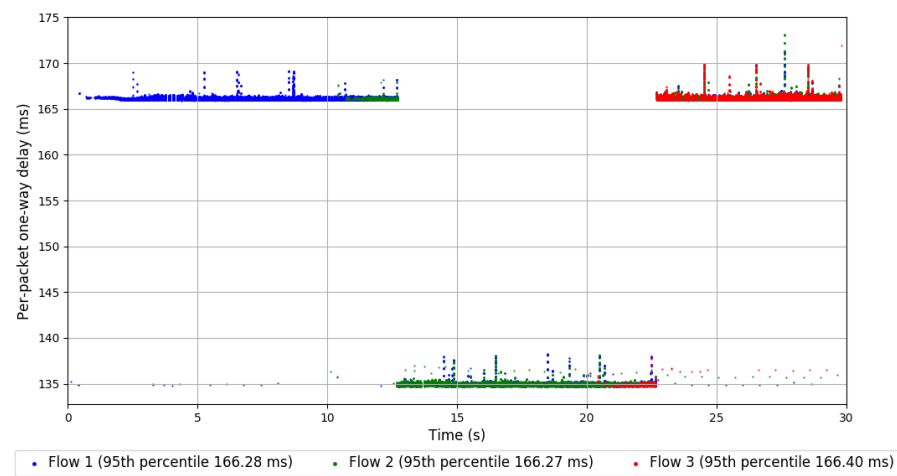
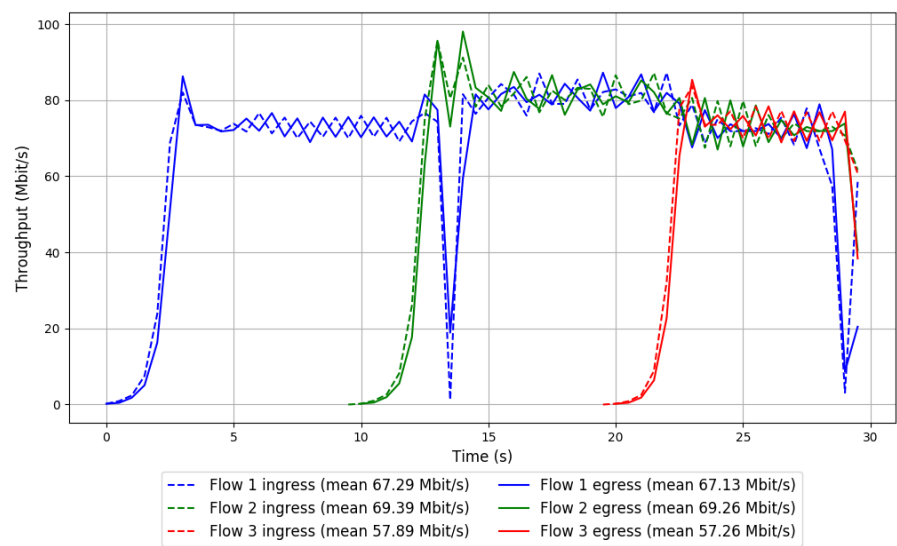
-- Flow 3:

Average throughput: 57.26 Mbit/s

95th percentile per-packet one-way delay: 166.399 ms

Loss rate: 3.74%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2017-12-01 10:32:46

End at: 2017-12-01 10:33:16

Below is generated by plot.py at 2017-12-01 13:32:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 129.71 Mbit/s

95th percentile per-packet one-way delay: 166.357 ms

Loss rate: 1.67%

-- Flow 1:

Average throughput: 67.05 Mbit/s

95th percentile per-packet one-way delay: 166.363 ms

Loss rate: 1.04%

-- Flow 2:

Average throughput: 68.75 Mbit/s

95th percentile per-packet one-way delay: 166.310 ms

Loss rate: 1.70%

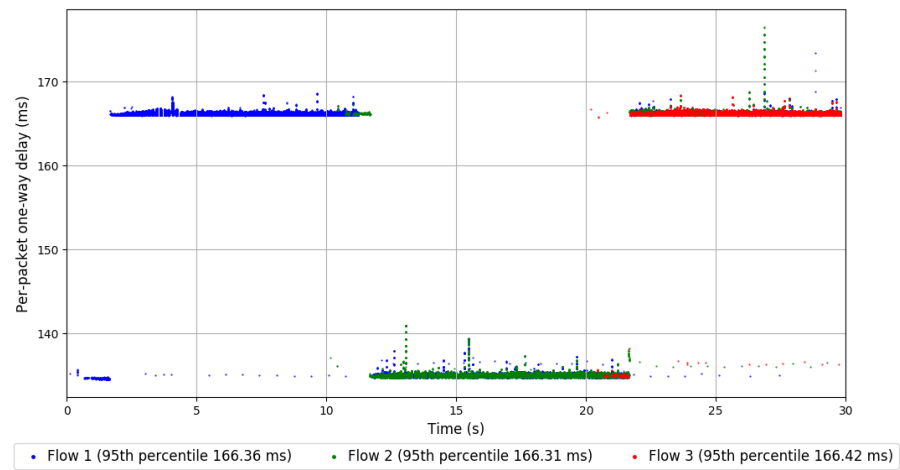
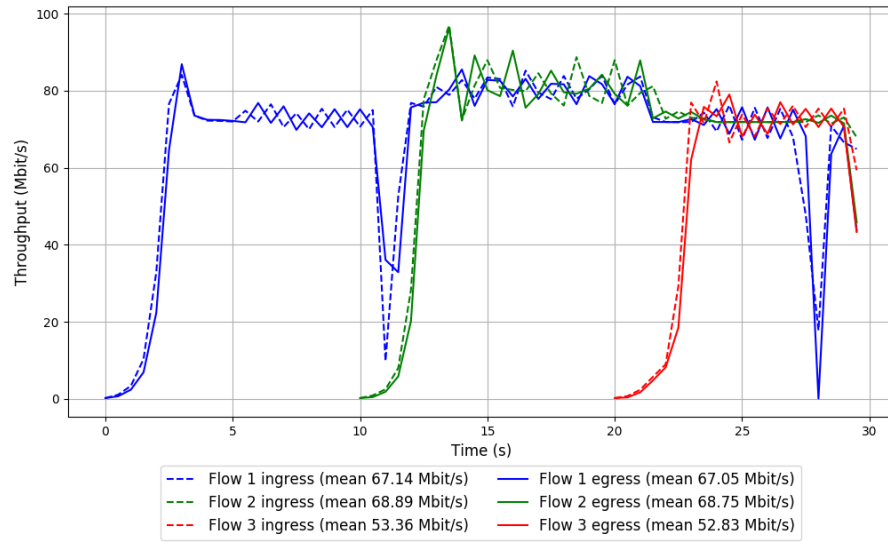
-- Flow 3:

Average throughput: 52.83 Mbit/s

95th percentile per-packet one-way delay: 166.424 ms

Loss rate: 4.02%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2017-12-01 10:45:51

End at: 2017-12-01 10:46:21

Below is generated by plot.py at 2017-12-01 13:34:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 134.24 Mbit/s

95th percentile per-packet one-way delay: 166.343 ms

Loss rate: 1.59%

-- Flow 1:

Average throughput: 69.08 Mbit/s

95th percentile per-packet one-way delay: 166.373 ms

Loss rate: 1.03%

-- Flow 2:

Average throughput: 67.54 Mbit/s

95th percentile per-packet one-way delay: 166.344 ms

Loss rate: 1.59%

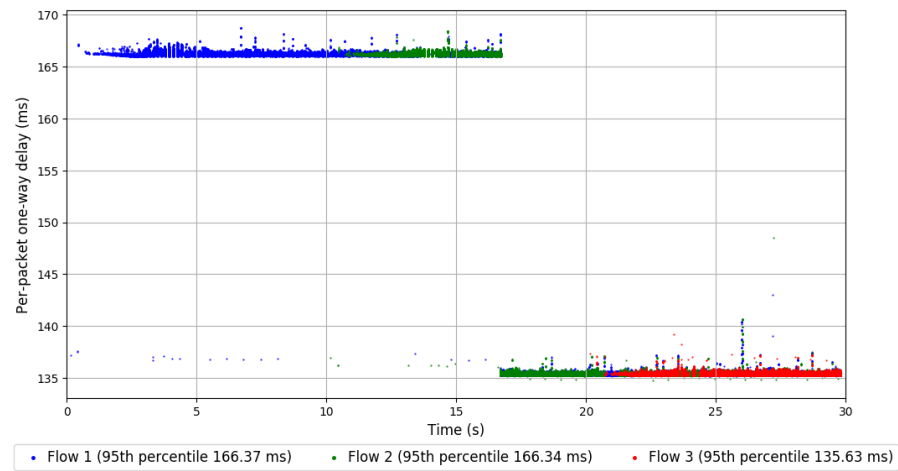
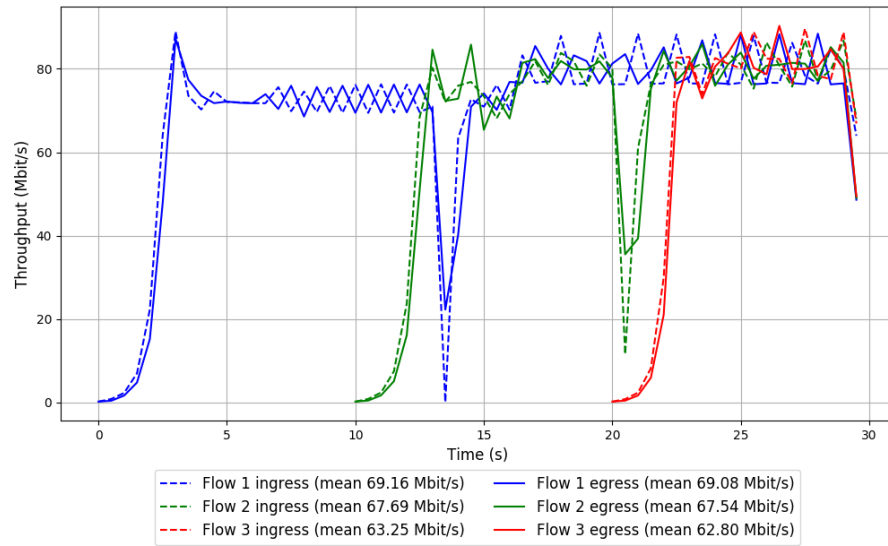
-- Flow 3:

Average throughput: 62.80 Mbit/s

95th percentile per-packet one-way delay: 135.632 ms

Loss rate: 3.45%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2017-12-01 10:59:43

End at: 2017-12-01 11:00:13

Below is generated by plot.py at 2017-12-01 13:35:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 138.57 Mbit/s

95th percentile per-packet one-way delay: 137.253 ms

Loss rate: 1.59%

-- Flow 1:

Average throughput: 72.26 Mbit/s

95th percentile per-packet one-way delay: 137.229 ms

Loss rate: 1.08%

-- Flow 2:

Average throughput: 69.06 Mbit/s

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

Loss rate: 1.54%

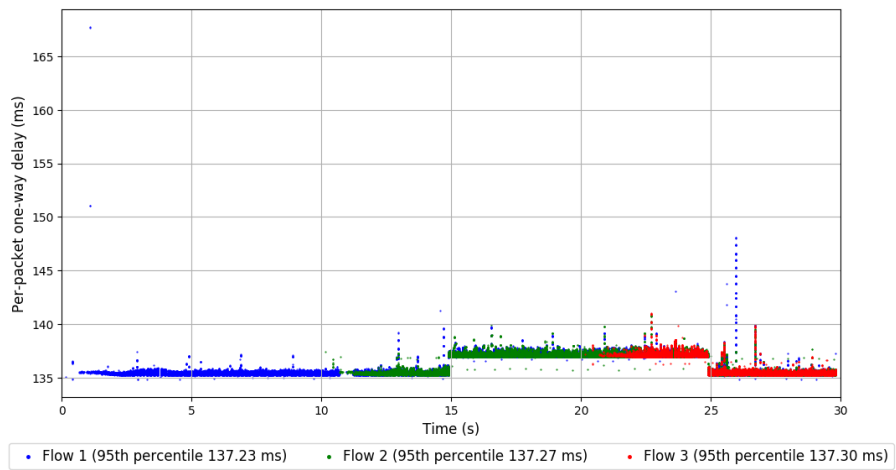
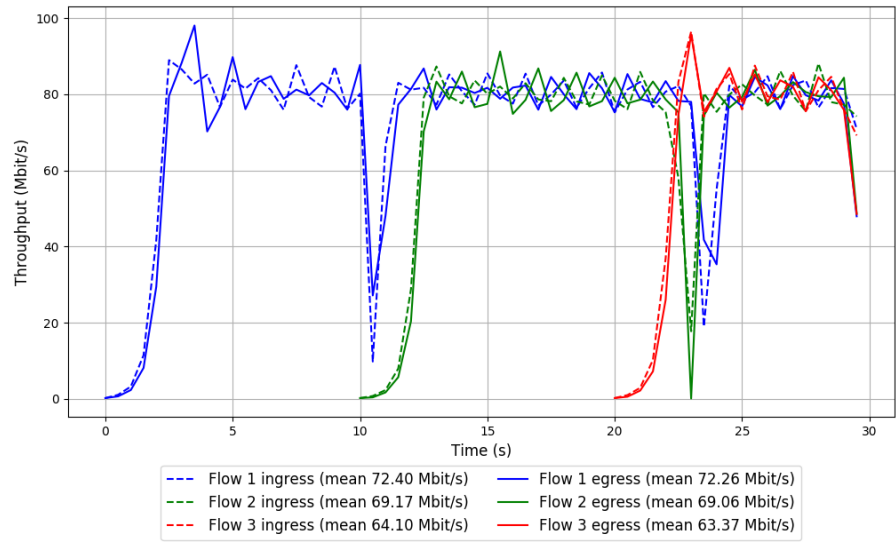
-- Flow 3:

Average throughput: 63.37 Mbit/s

95th percentile per-packet one-way delay: 137.296 ms

Loss rate: 3.45%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2017-12-01 08:53:50

End at: 2017-12-01 08:54:20

Below is generated by plot.py at 2017-12-01 13:35:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.00 Mbit/s

95th percentile per-packet one-way delay: 162.111 ms

Loss rate: 1.67%

-- Flow 1:

Average throughput: 48.52 Mbit/s

95th percentile per-packet one-way delay: 161.971 ms

Loss rate: 1.05%

-- Flow 2:

Average throughput: 51.79 Mbit/s

95th percentile per-packet one-way delay: 162.067 ms

Loss rate: 1.68%

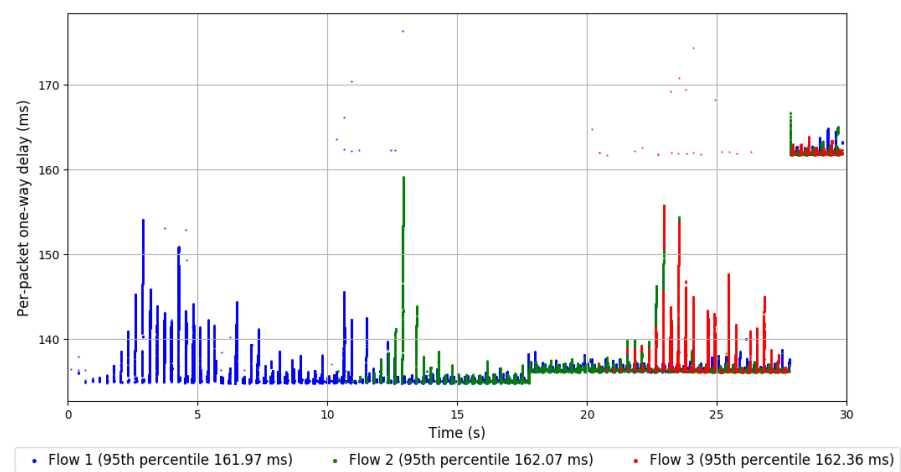
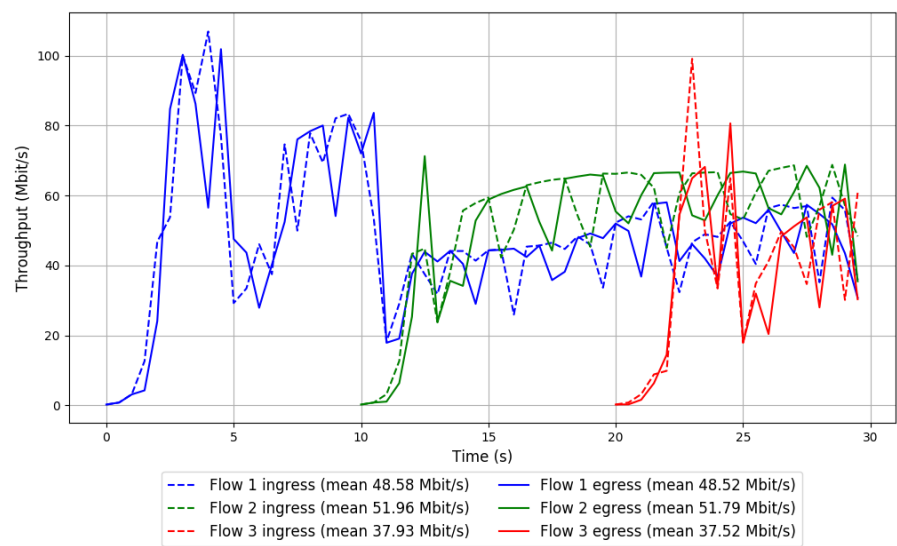
-- Flow 3:

Average throughput: 37.52 Mbit/s

95th percentile per-packet one-way delay: 162.360 ms

Loss rate: 4.06%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2017-12-01 09:07:35

End at: 2017-12-01 09:08:05

Below is generated by plot.py at 2017-12-01 13:35:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.46 Mbit/s

95th percentile per-packet one-way delay: 170.570 ms

Loss rate: 1.09%

-- Flow 1:

Average throughput: 77.01 Mbit/s

95th percentile per-packet one-way delay: 171.095 ms

Loss rate: 0.34%

-- Flow 2:

Average throughput: 11.07 Mbit/s

95th percentile per-packet one-way delay: 144.925 ms

Loss rate: 5.85%

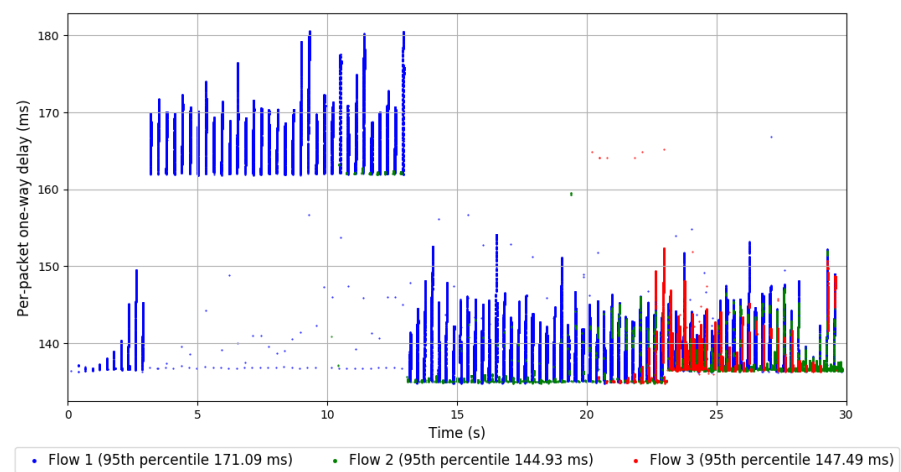
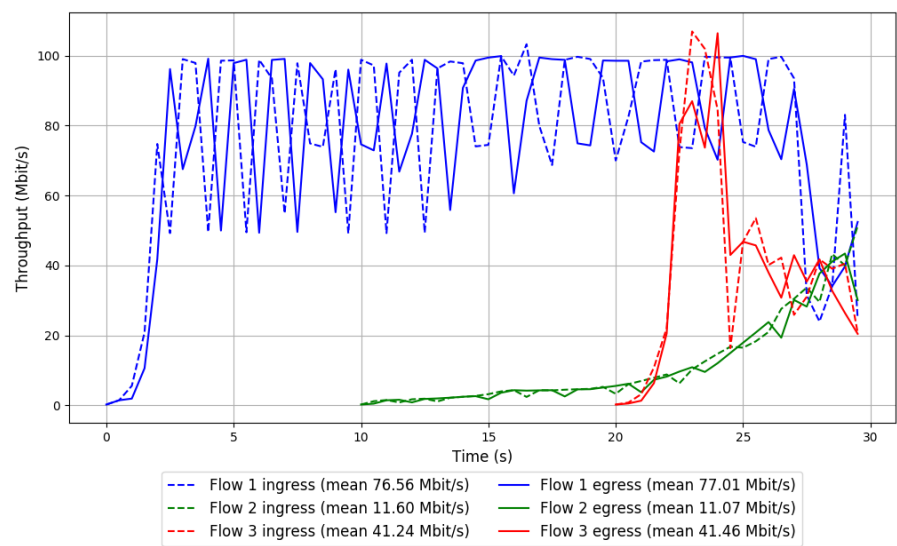
-- Flow 3:

Average throughput: 41.46 Mbit/s

95th percentile per-packet one-way delay: 147.493 ms

Loss rate: 2.59%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2017-12-01 09:21:36

End at: 2017-12-01 09:22:06

Below is generated by plot.py at 2017-12-01 13:35:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 121.51 Mbit/s

95th percentile per-packet one-way delay: 147.760 ms

Loss rate: 0.88%

-- Flow 1:

Average throughput: 77.07 Mbit/s

95th percentile per-packet one-way delay: 146.569 ms

Loss rate: 0.43%

-- Flow 2:

Average throughput: 66.57 Mbit/s

95th percentile per-packet one-way delay: 148.898 ms

Loss rate: 1.63%

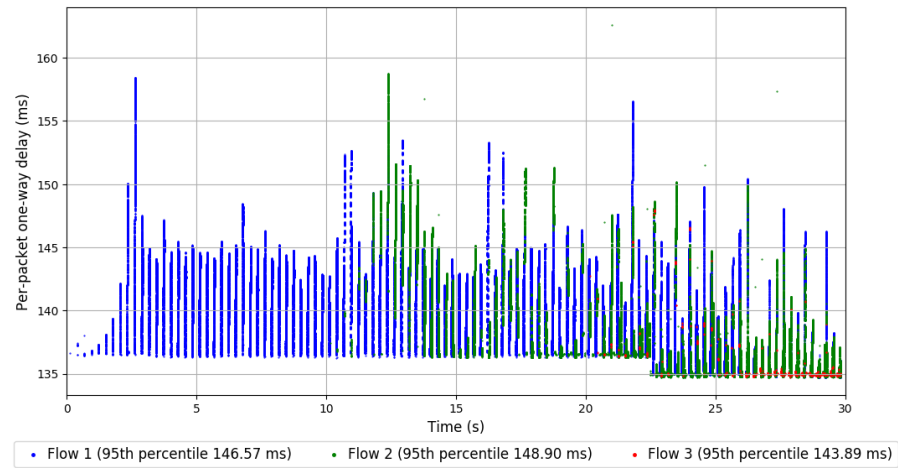
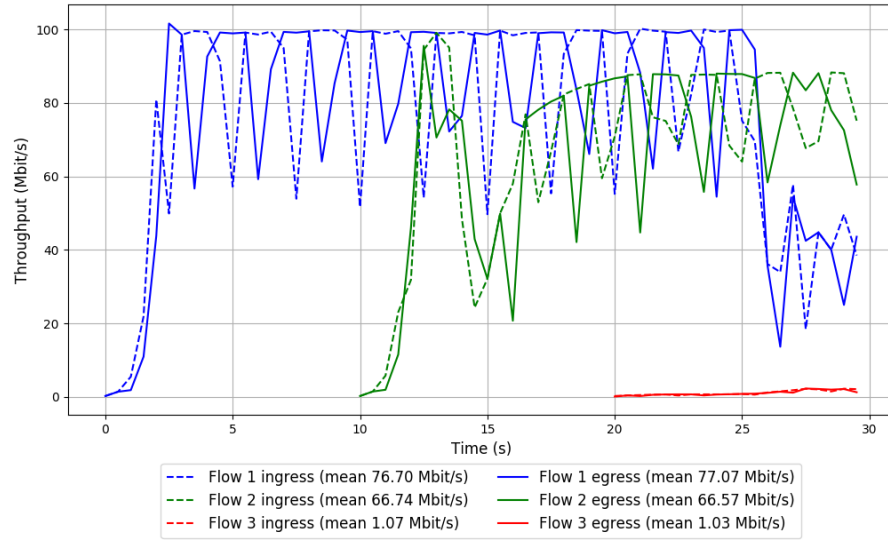
-- Flow 3:

Average throughput: 1.03 Mbit/s

95th percentile per-packet one-way delay: 143.890 ms

Loss rate: 6.11%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2017-12-01 09:35:14

End at: 2017-12-01 09:35:44

Below is generated by plot.py at 2017-12-01 13:35:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.13 Mbit/s

95th percentile per-packet one-way delay: 169.927 ms

Loss rate: 1.32%

-- Flow 1:

Average throughput: 51.73 Mbit/s

95th percentile per-packet one-way delay: 170.276 ms

Loss rate: 0.75%

-- Flow 2:

Average throughput: 41.73 Mbit/s

95th percentile per-packet one-way delay: 169.076 ms

Loss rate: 1.74%

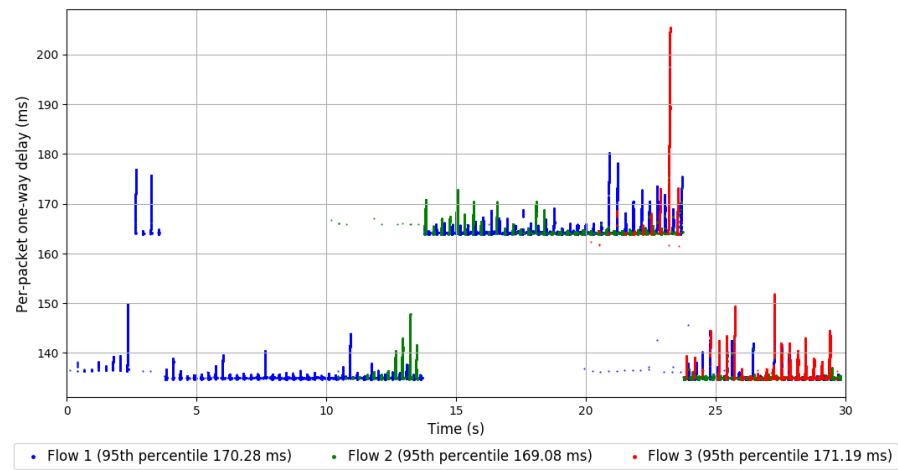
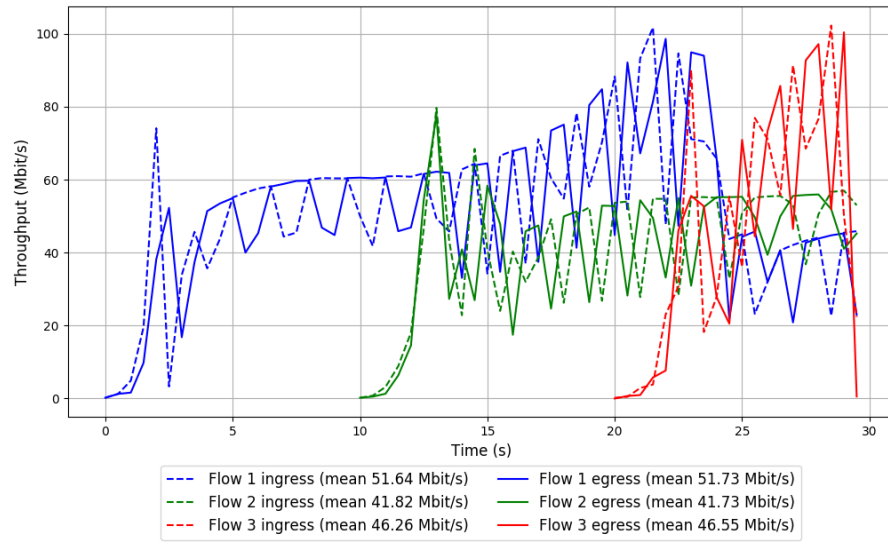
-- Flow 3:

Average throughput: 46.55 Mbit/s

95th percentile per-packet one-way delay: 171.195 ms

Loss rate: 2.47%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2017-12-01 09:49:09

End at: 2017-12-01 09:49:40

Below is generated by plot.py at 2017-12-01 13:35:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 44.74 Mbit/s

95th percentile per-packet one-way delay: 164.753 ms

Loss rate: 2.52%

-- Flow 1:

Average throughput: 21.96 Mbit/s

95th percentile per-packet one-way delay: 165.067 ms

Loss rate: 1.80%

-- Flow 2:

Average throughput: 15.01 Mbit/s

95th percentile per-packet one-way delay: 164.276 ms

Loss rate: 2.60%

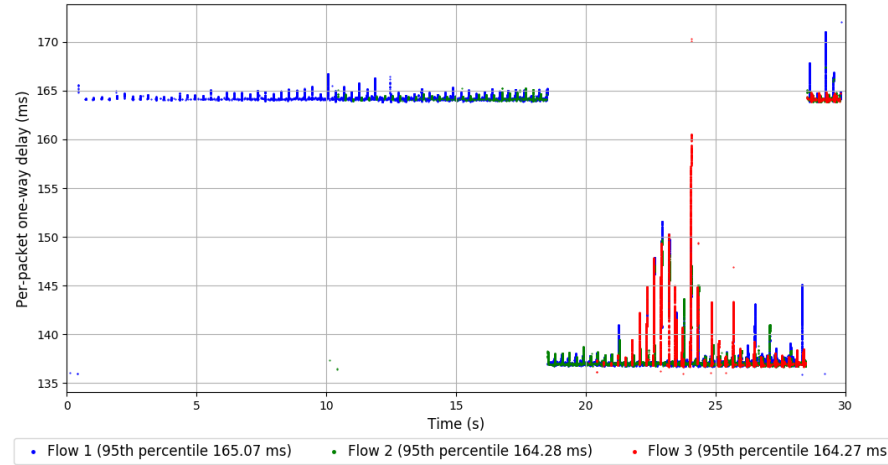
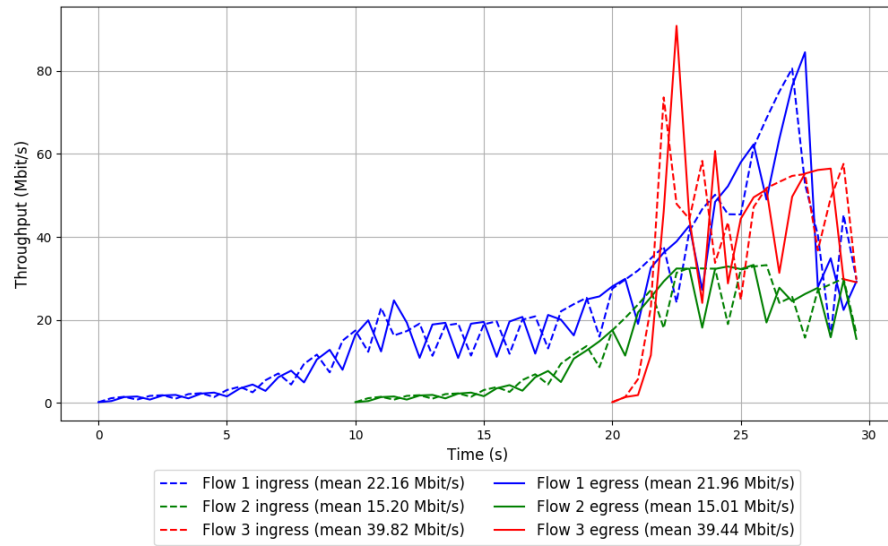
-- Flow 3:

Average throughput: 39.44 Mbit/s

95th percentile per-packet one-way delay: 164.271 ms

Loss rate: 3.68%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2017-12-01 10:02:26

End at: 2017-12-01 10:02:56

Below is generated by plot.py at 2017-12-01 13:35:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 23.44 Mbit/s

95th percentile per-packet one-way delay: 167.374 ms

Loss rate: 3.31%

-- Flow 1:

Average throughput: 11.27 Mbit/s

95th percentile per-packet one-way delay: 167.416 ms

Loss rate: 2.60%

-- Flow 2:

Average throughput: 16.60 Mbit/s

95th percentile per-packet one-way delay: 167.377 ms

Loss rate: 3.28%

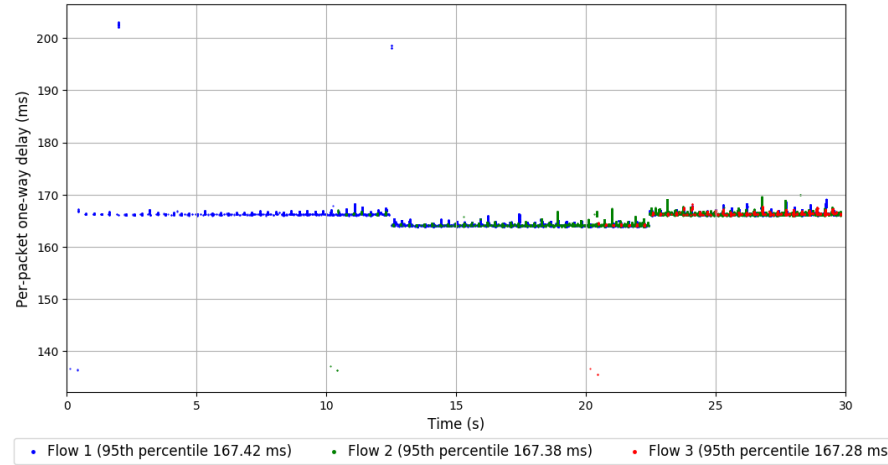
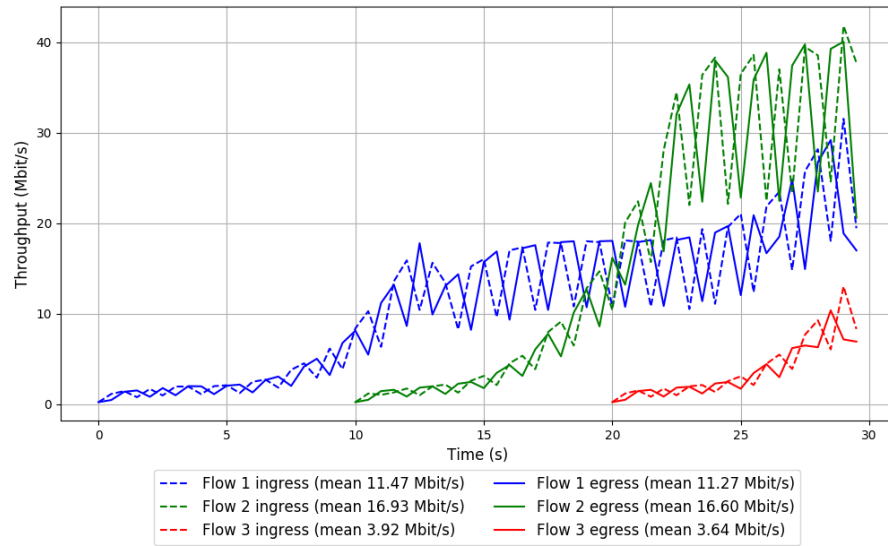
-- Flow 3:

Average throughput: 3.64 Mbit/s

95th percentile per-packet one-way delay: 167.282 ms

Loss rate: 9.76%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2017-12-01 10:15:40

End at: 2017-12-01 10:16:10

Below is generated by plot.py at 2017-12-01 13:35:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 104.64 Mbit/s

95th percentile per-packet one-way delay: 144.851 ms

Loss rate: 0.75%

-- Flow 1:

Average throughput: 52.94 Mbit/s

95th percentile per-packet one-way delay: 143.700 ms

Loss rate: 0.23%

-- Flow 2:

Average throughput: 61.32 Mbit/s

95th percentile per-packet one-way delay: 145.643 ms

Loss rate: 0.81%

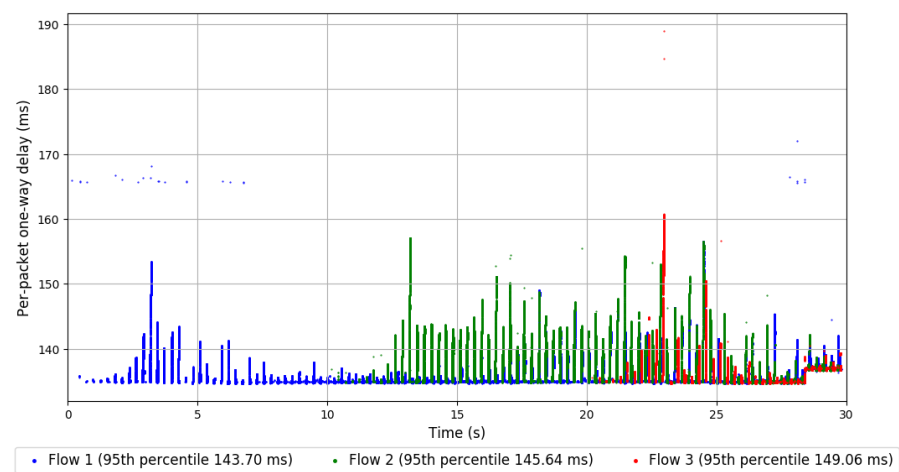
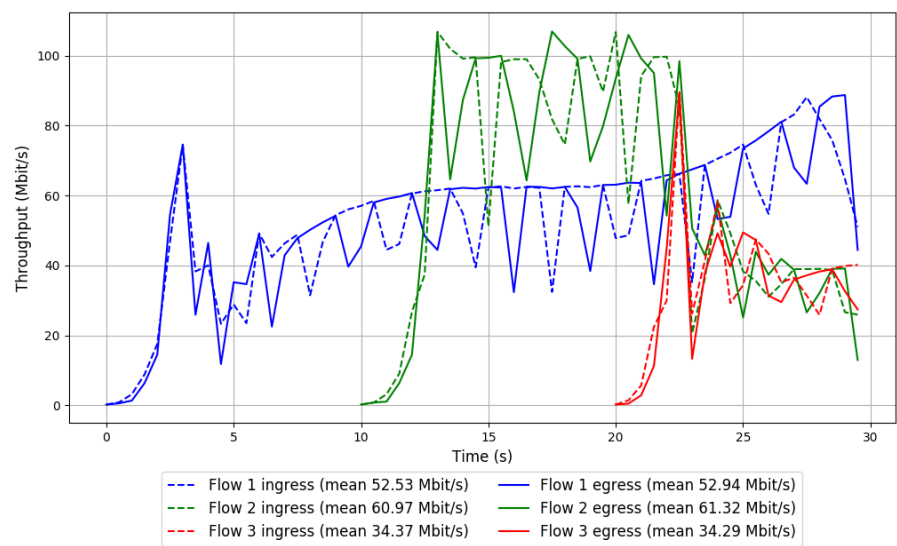
-- Flow 3:

Average throughput: 34.29 Mbit/s

95th percentile per-packet one-way delay: 149.062 ms

Loss rate: 3.00%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2017-12-01 10:29:15

End at: 2017-12-01 10:29:45

Below is generated by plot.py at 2017-12-01 13:35:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.01 Mbit/s

95th percentile per-packet one-way delay: 176.211 ms

Loss rate: 1.27%

-- Flow 1:

Average throughput: 48.28 Mbit/s

95th percentile per-packet one-way delay: 174.902 ms

Loss rate: 0.95%

-- Flow 2:

Average throughput: 56.93 Mbit/s

95th percentile per-packet one-way delay: 178.089 ms

Loss rate: 1.40%

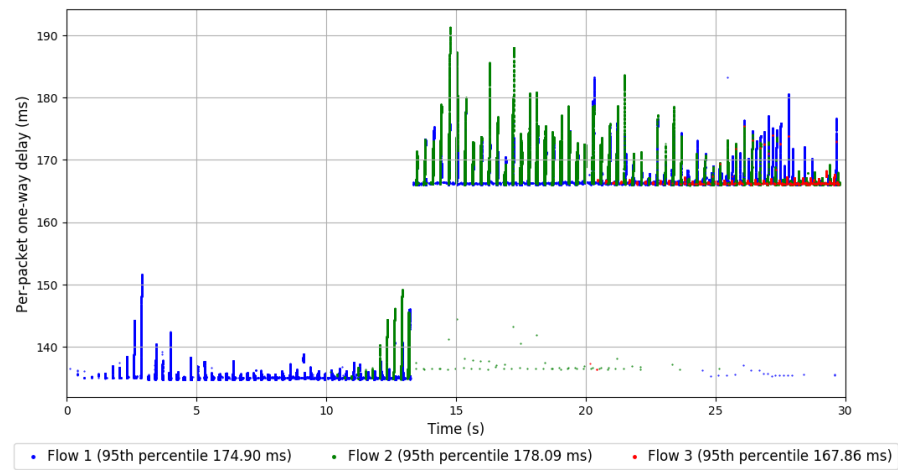
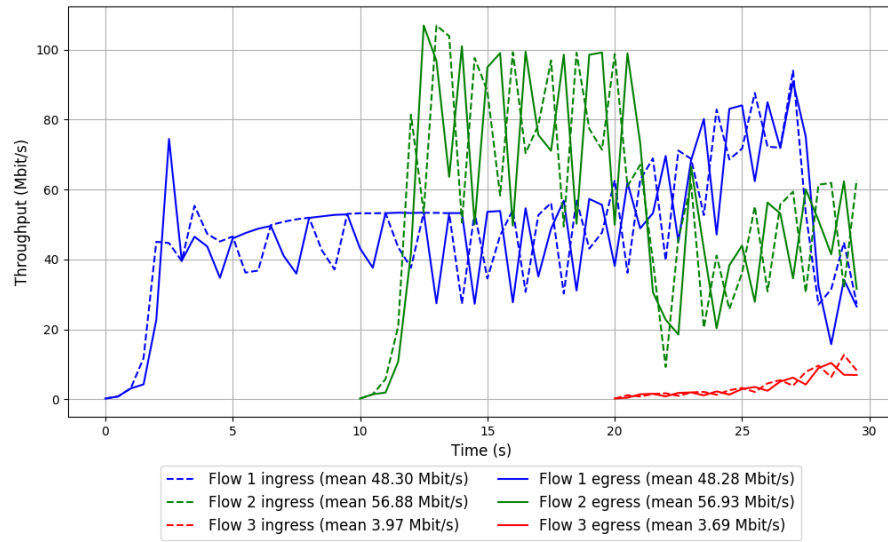
-- Flow 3:

Average throughput: 3.69 Mbit/s

95th percentile per-packet one-way delay: 167.858 ms

Loss rate: 9.72%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2017-12-01 10:42:08

End at: 2017-12-01 10:42:38

Below is generated by plot.py at 2017-12-01 13:35:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 51.95 Mbit/s

95th percentile per-packet one-way delay: 166.665 ms

Loss rate: 2.53%

-- Flow 1:

Average throughput: 33.63 Mbit/s

95th percentile per-packet one-way delay: 166.820 ms

Loss rate: 1.99%

-- Flow 2:

Average throughput: 11.56 Mbit/s

95th percentile per-packet one-way delay: 166.648 ms

Loss rate: 3.66%

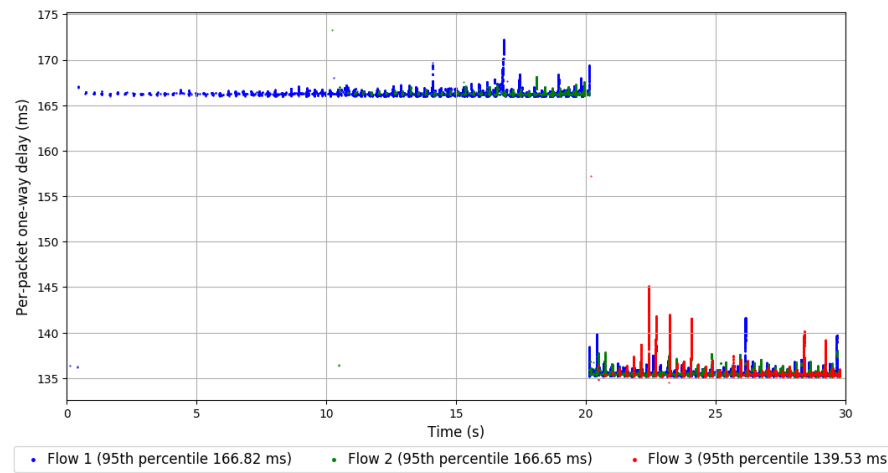
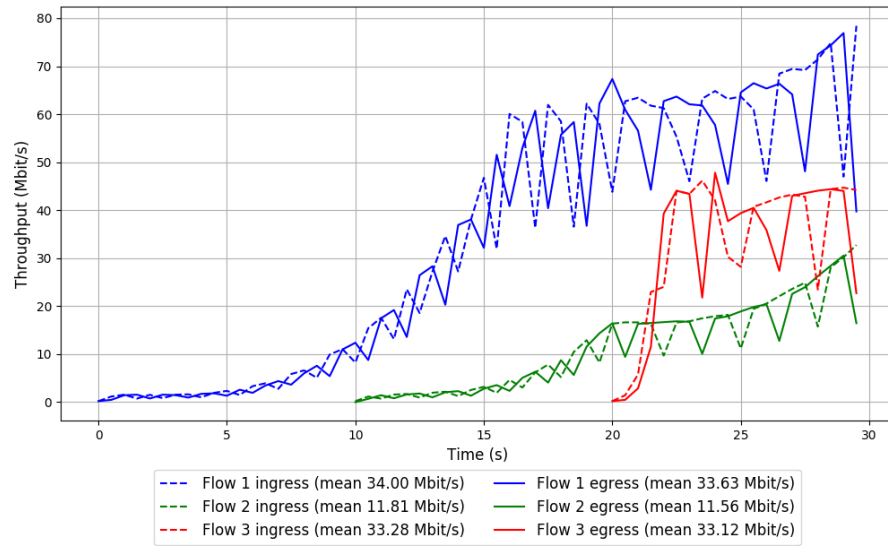
-- Flow 3:

Average throughput: 33.12 Mbit/s

95th percentile per-packet one-way delay: 139.533 ms

Loss rate: 3.42%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2017-12-01 10:56:09

End at: 2017-12-01 10:56:39

Below is generated by plot.py at 2017-12-01 13:36:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.53 Mbit/s

95th percentile per-packet one-way delay: 145.515 ms

Loss rate: 1.51%

-- Flow 1:

Average throughput: 55.02 Mbit/s

95th percentile per-packet one-way delay: 143.031 ms

Loss rate: 0.66%

-- Flow 2:

Average throughput: 38.46 Mbit/s

95th percentile per-packet one-way delay: 144.897 ms

Loss rate: 2.18%

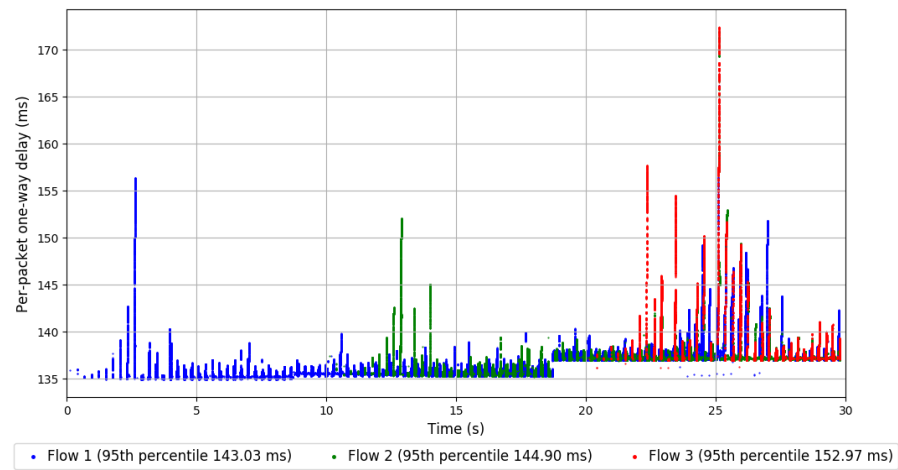
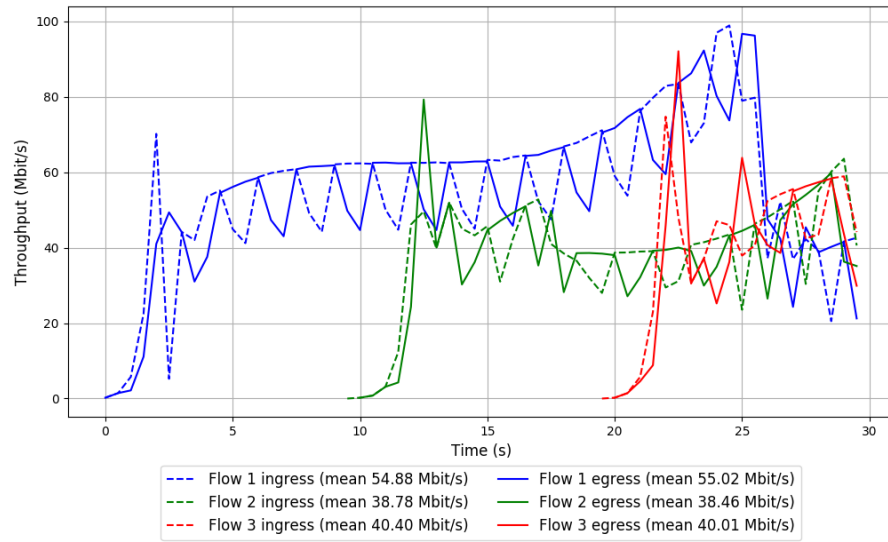
-- Flow 3:

Average throughput: 40.01 Mbit/s

95th percentile per-packet one-way delay: 152.965 ms

Loss rate: 3.72%

Run 10: Report of TCP Cubic — Data Link

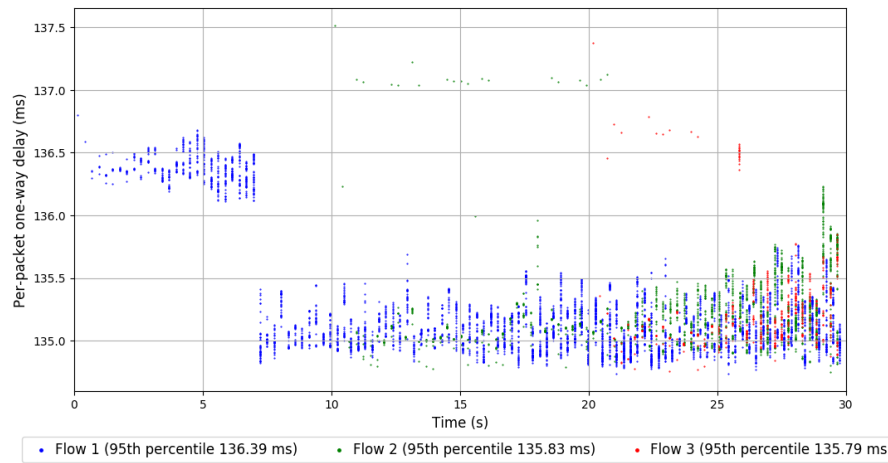
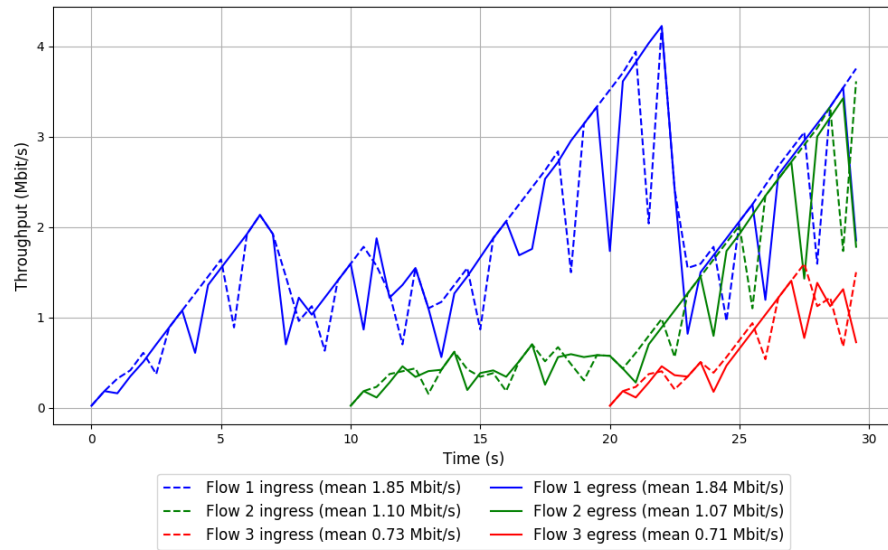


```
Run 1: Statistics of LEDBAT

Start at: 2017-12-01 08:53:01
End at: 2017-12-01 08:53:31

# Below is generated by plot.py at 2017-12-01 13:36:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 2.77 Mbit/s
95th percentile per-packet one-way delay: 136.353 ms
Loss rate: 2.69%
-- Flow 1:
Average throughput: 1.84 Mbit/s
95th percentile per-packet one-way delay: 136.386 ms
Loss rate: 1.72%
-- Flow 2:
Average throughput: 1.07 Mbit/s
95th percentile per-packet one-way delay: 135.827 ms
Loss rate: 4.20%
-- Flow 3:
Average throughput: 0.71 Mbit/s
95th percentile per-packet one-way delay: 135.788 ms
Loss rate: 5.61%
```


Run 1: Report of LEDBAT — Data Link

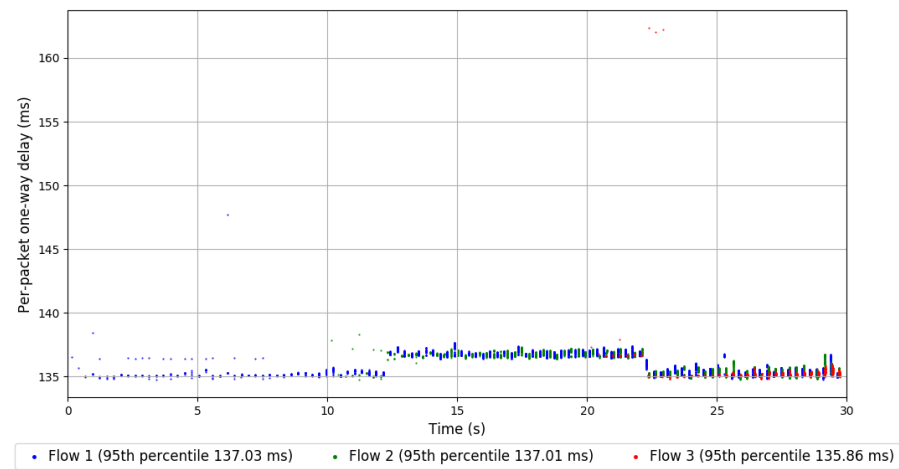
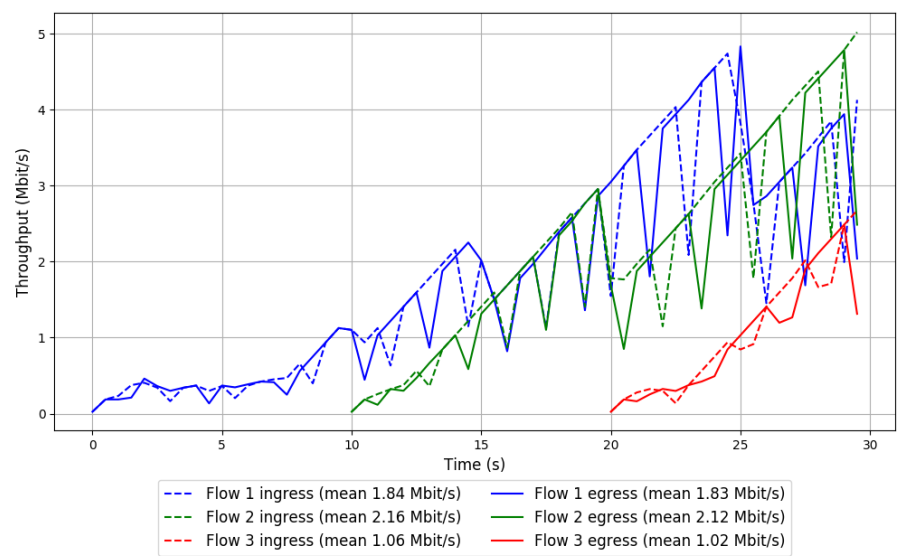


```
Run 2: Statistics of LEDBAT

Start at: 2017-12-01 09:06:46
End at: 2017-12-01 09:07:16

# Below is generated by plot.py at 2017-12-01 13:36:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.55 Mbit/s
95th percentile per-packet one-way delay: 137.006 ms
Loss rate: 2.81%
-- Flow 1:
Average throughput: 1.83 Mbit/s
95th percentile per-packet one-way delay: 137.027 ms
Loss rate: 1.90%
-- Flow 2:
Average throughput: 2.12 Mbit/s
95th percentile per-packet one-way delay: 137.008 ms
Loss rate: 3.07%
-- Flow 3:
Average throughput: 1.02 Mbit/s
95th percentile per-packet one-way delay: 135.856 ms
Loss rate: 6.49%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2017-12-01 09:20:46

End at: 2017-12-01 09:21:16

Below is generated by plot.py at 2017-12-01 13:36:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.98 Mbit/s

95th percentile per-packet one-way delay: 137.170 ms

Loss rate: 1.26%

-- Flow 1:

Average throughput: 3.66 Mbit/s

95th percentile per-packet one-way delay: 137.187 ms

Loss rate: 1.17%

-- Flow 2:

Average throughput: 0.33 Mbit/s

95th percentile per-packet one-way delay: 136.980 ms

Loss rate: 1.45%

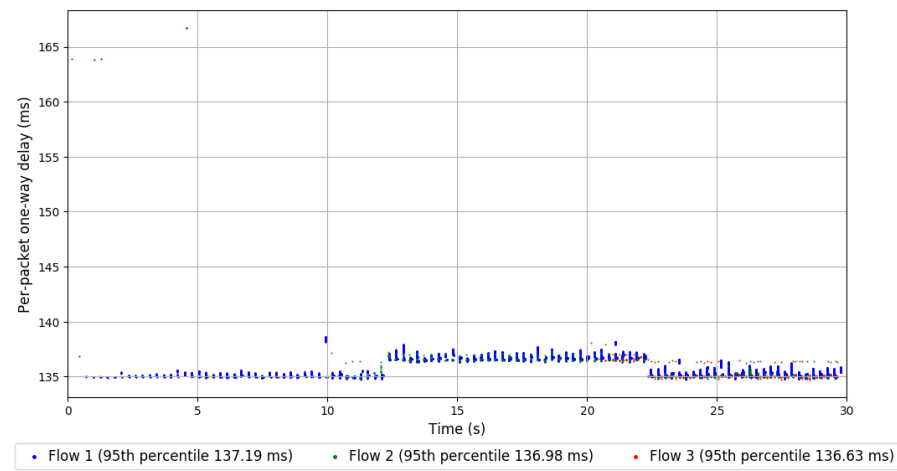
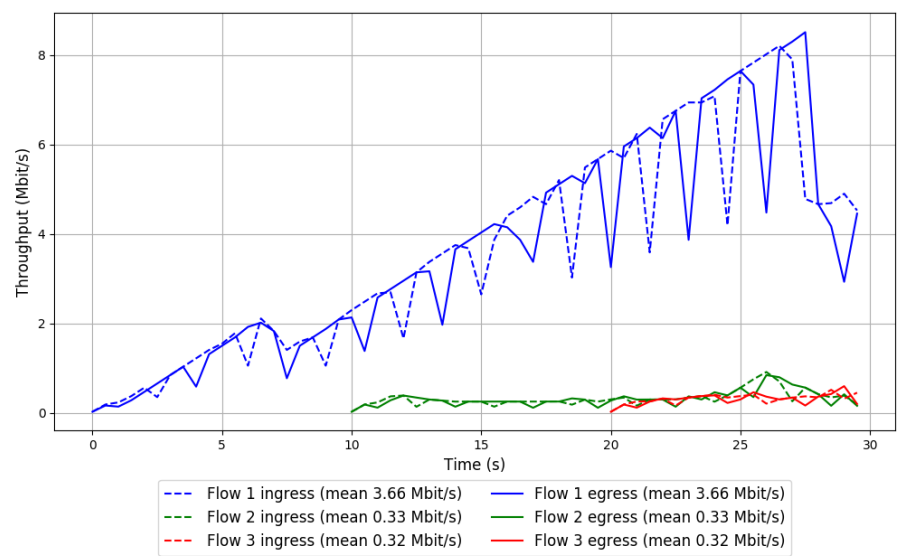
-- Flow 3:

Average throughput: 0.32 Mbit/s

95th percentile per-packet one-way delay: 136.628 ms

Loss rate: 4.01%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2017-12-01 09:34:25

End at: 2017-12-01 09:34:55

Below is generated by plot.py at 2017-12-01 13:36:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.79 Mbit/s

95th percentile per-packet one-way delay: 135.759 ms

Loss rate: 1.88%

-- Flow 1:

Average throughput: 2.34 Mbit/s

95th percentile per-packet one-way delay: 135.766 ms

Loss rate: 0.74%

-- Flow 2:

Average throughput: 1.92 Mbit/s

95th percentile per-packet one-way delay: 135.720 ms

Loss rate: 3.05%

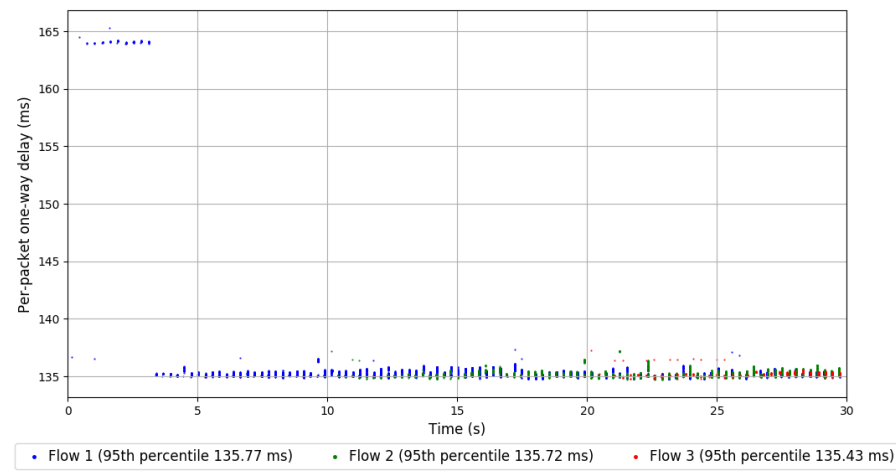
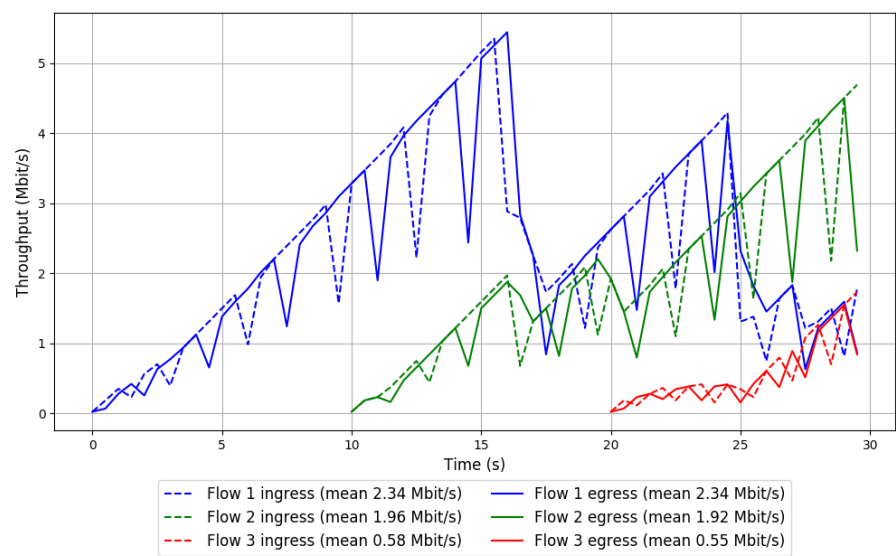
-- Flow 3:

Average throughput: 0.55 Mbit/s

95th percentile per-packet one-way delay: 135.431 ms

Loss rate: 7.87%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2017-12-01 09:48:19

End at: 2017-12-01 09:48:49

Below is generated by plot.py at 2017-12-01 13:36:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 5.25 Mbit/s

95th percentile per-packet one-way delay: 166.428 ms

Loss rate: 2.57%

-- Flow 1:

Average throughput: 3.34 Mbit/s

95th percentile per-packet one-way delay: 166.302 ms

Loss rate: 2.06%

-- Flow 2:

Average throughput: 2.41 Mbit/s

95th percentile per-packet one-way delay: 166.508 ms

Loss rate: 3.04%

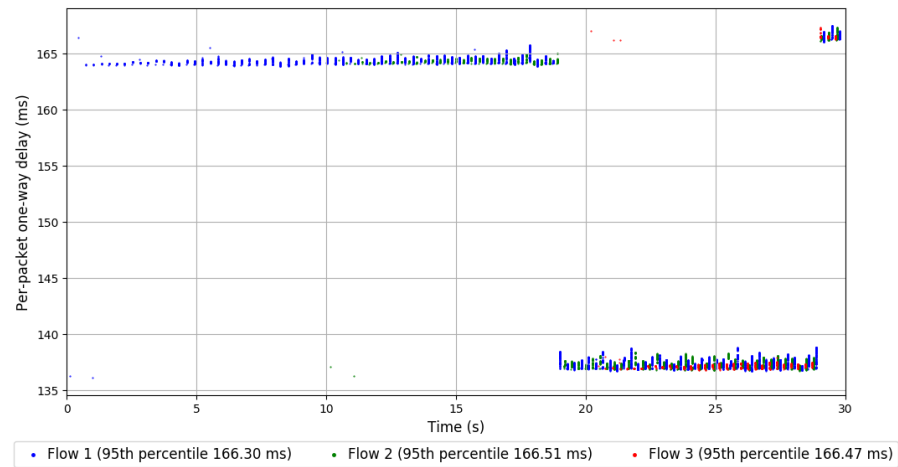
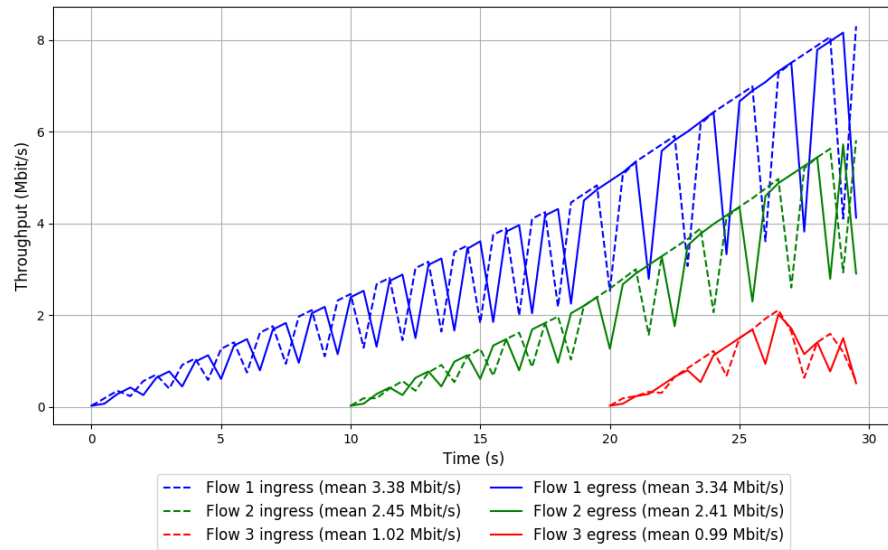
-- Flow 3:

Average throughput: 0.99 Mbit/s

95th percentile per-packet one-way delay: 166.466 ms

Loss rate: 5.34%

Run 5: Report of LEDBAT — Data Link

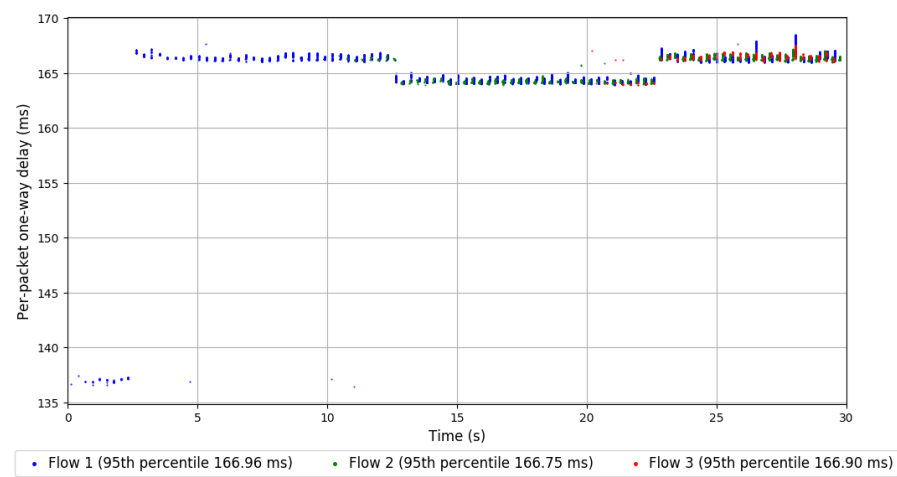
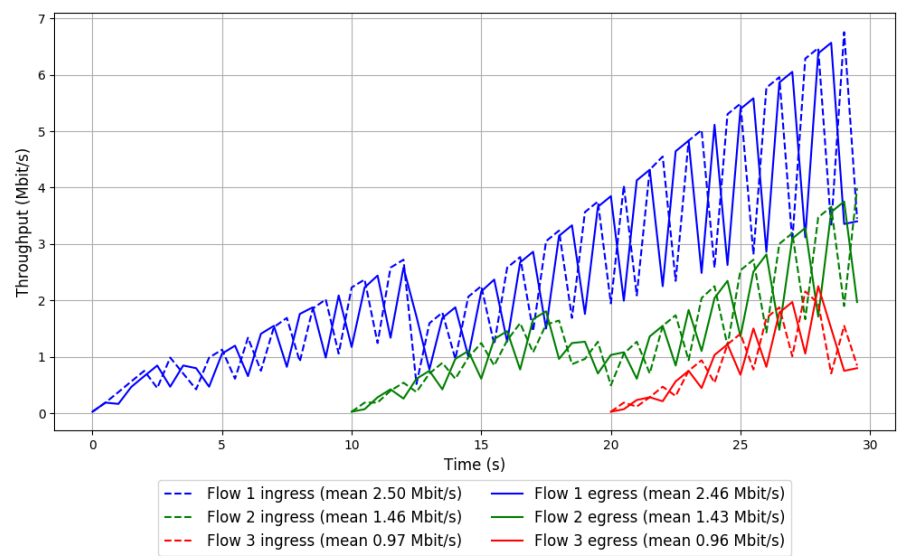


```
Run 6: Statistics of LEDBAT

Start at: 2017-12-01 10:01:35
End at: 2017-12-01 10:02:05

# Below is generated by plot.py at 2017-12-01 13:36:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.69 Mbit/s
95th percentile per-packet one-way delay: 166.904 ms
Loss rate: 2.89%
-- Flow 1:
Average throughput: 2.46 Mbit/s
95th percentile per-packet one-way delay: 166.956 ms
Loss rate: 2.45%
-- Flow 2:
Average throughput: 1.43 Mbit/s
95th percentile per-packet one-way delay: 166.748 ms
Loss rate: 3.47%
-- Flow 3:
Average throughput: 0.96 Mbit/s
95th percentile per-packet one-way delay: 166.900 ms
Loss rate: 4.49%
```

Run 6: Report of LEDBAT — Data Link

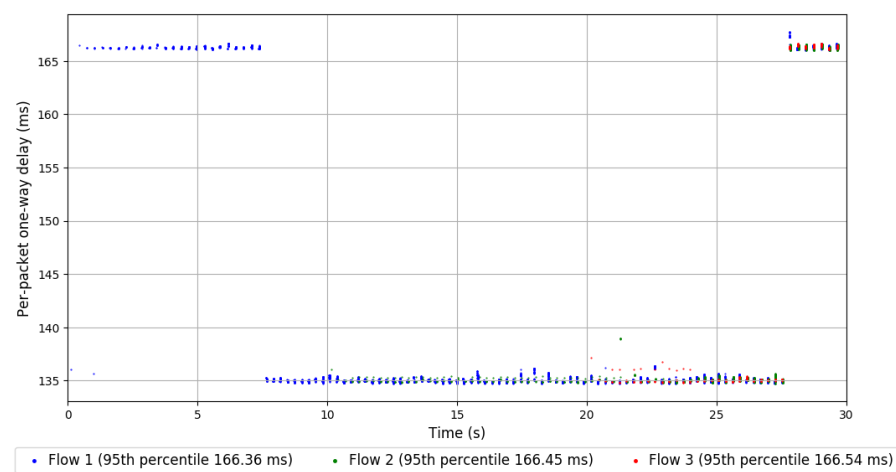
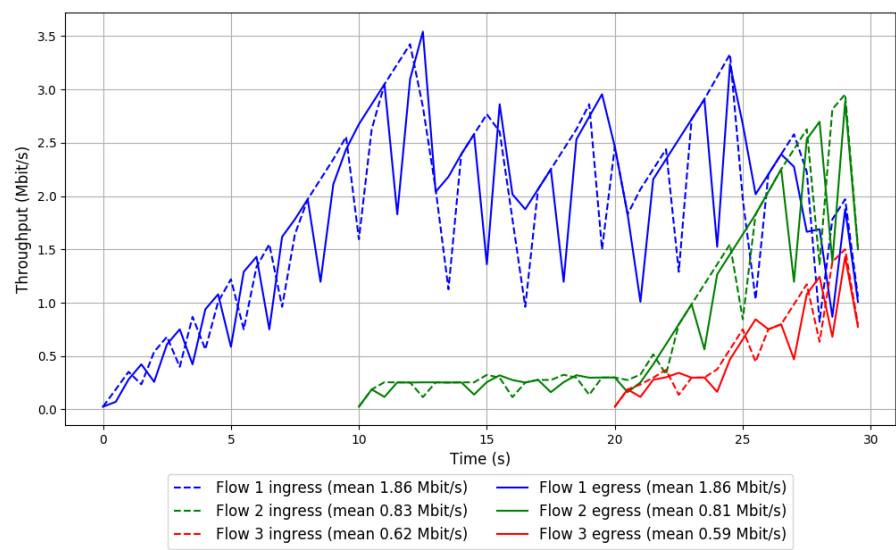


```
Run 7: Statistics of LEDBAT

Start at: 2017-12-01 10:14:50
End at: 2017-12-01 10:15:20

# Below is generated by plot.py at 2017-12-01 13:36:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 2.58 Mbit/s
95th percentile per-packet one-way delay: 166.414 ms
Loss rate: 2.17%
-- Flow 1:
Average throughput: 1.86 Mbit/s
95th percentile per-packet one-way delay: 166.357 ms
Loss rate: 0.95%
-- Flow 2:
Average throughput: 0.81 Mbit/s
95th percentile per-packet one-way delay: 166.448 ms
Loss rate: 4.62%
-- Flow 3:
Average throughput: 0.59 Mbit/s
95th percentile per-packet one-way delay: 166.545 ms
Loss rate: 6.65%
```

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2017-12-01 10:28:25

End at: 2017-12-01 10:28:55

Below is generated by plot.py at 2017-12-01 13:36:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.44 Mbit/s

95th percentile per-packet one-way delay: 166.896 ms

Loss rate: 2.09%

-- Flow 1:

Average throughput: 1.79 Mbit/s

95th percentile per-packet one-way delay: 166.897 ms

Loss rate: 2.09%

-- Flow 2:

Average throughput: 2.20 Mbit/s

95th percentile per-packet one-way delay: 166.868 ms

Loss rate: 1.40%

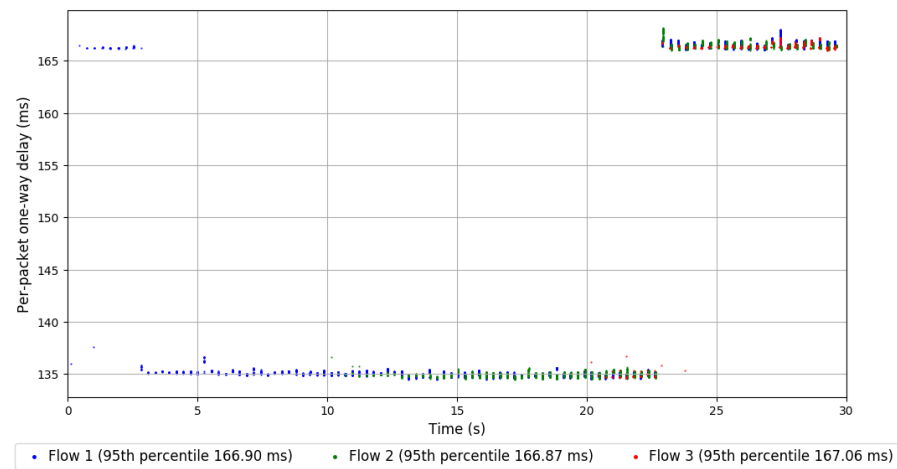
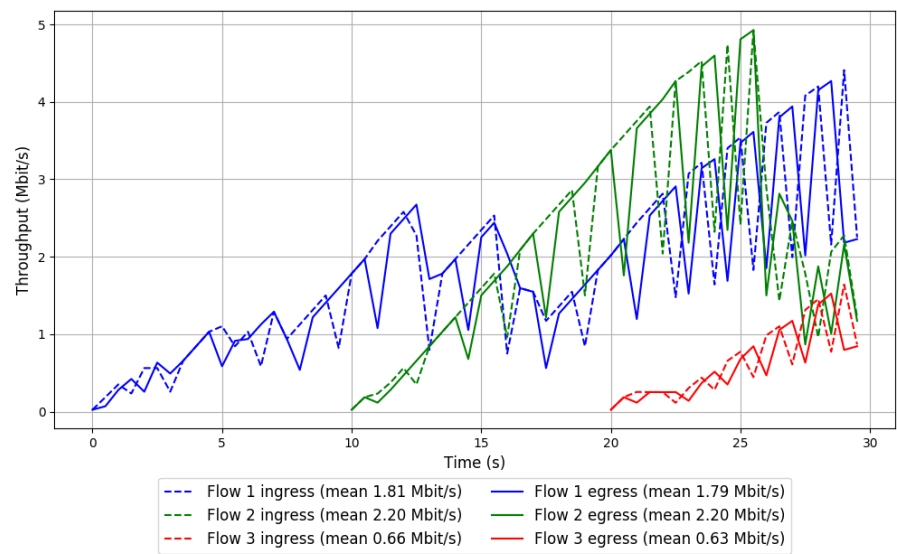
-- Flow 3:

Average throughput: 0.63 Mbit/s

95th percentile per-packet one-way delay: 167.065 ms

Loss rate: 6.81%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2017-12-01 10:41:18

End at: 2017-12-01 10:41:48

Below is generated by plot.py at 2017-12-01 13:36:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.56 Mbit/s

95th percentile per-packet one-way delay: 166.901 ms

Loss rate: 1.85%

-- Flow 1:

Average throughput: 3.78 Mbit/s

95th percentile per-packet one-way delay: 166.963 ms

Loss rate: 1.21%

-- Flow 2:

Average throughput: 0.77 Mbit/s

95th percentile per-packet one-way delay: 166.647 ms

Loss rate: 4.02%

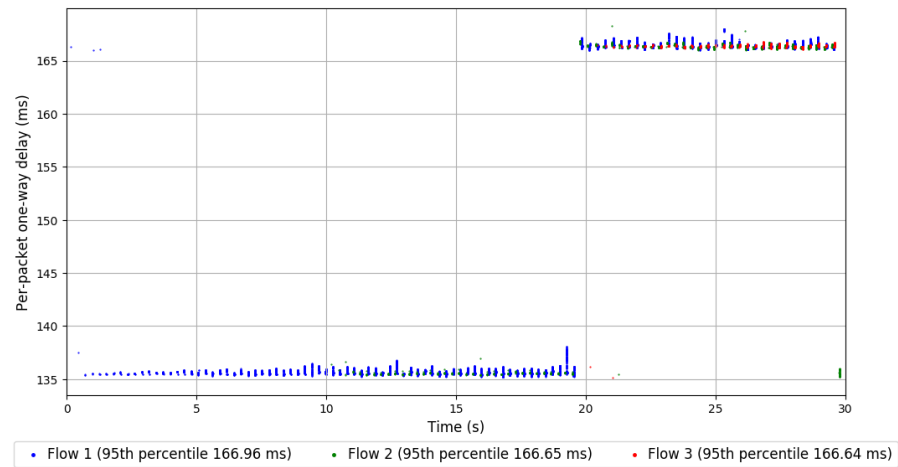
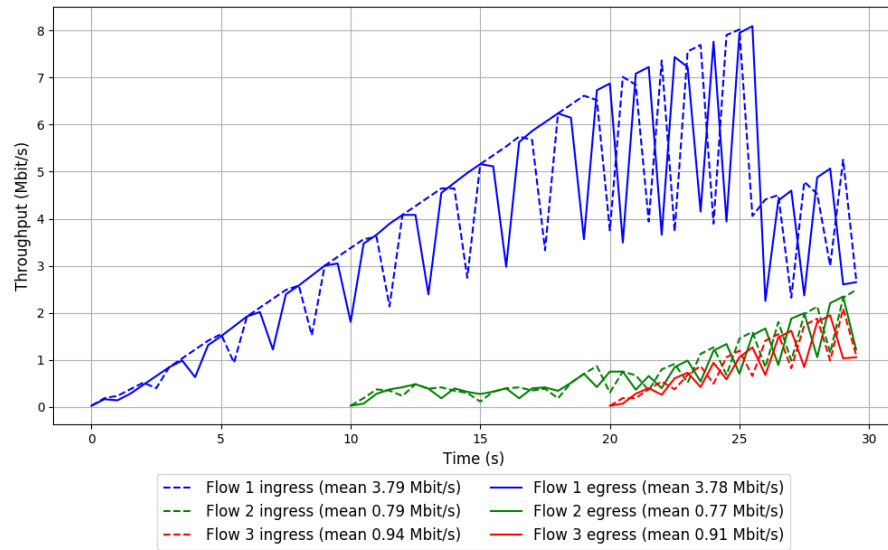
-- Flow 3:

Average throughput: 0.91 Mbit/s

95th percentile per-packet one-way delay: 166.642 ms

Loss rate: 6.06%

Run 9: Report of LEDBAT — Data Link

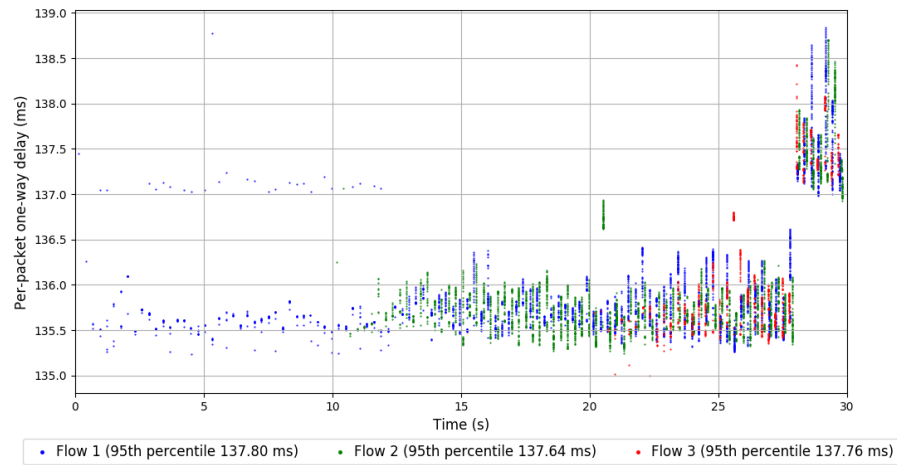
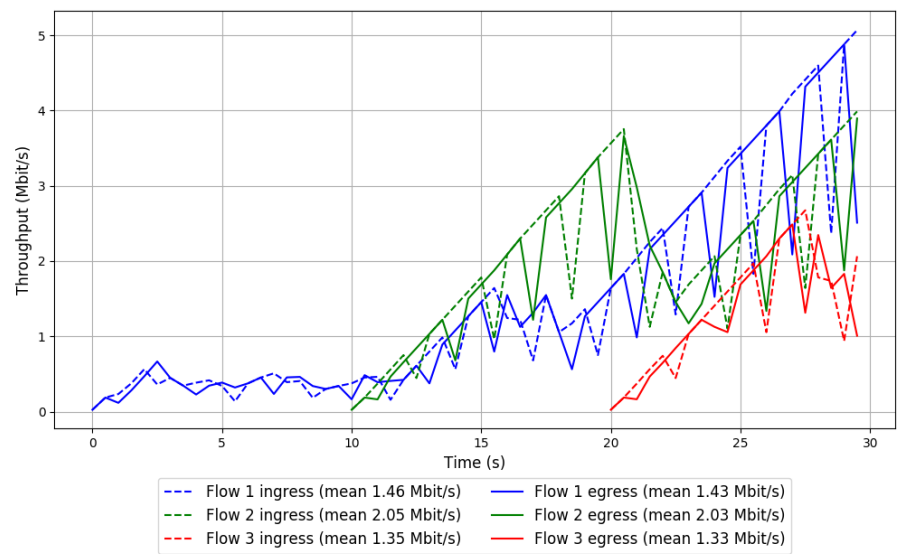


```
Run 10: Statistics of LEDBAT

Start at: 2017-12-01 10:55:20
End at: 2017-12-01 10:55:50

# Below is generated by plot.py at 2017-12-01 13:36:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.20 Mbit/s
95th percentile per-packet one-way delay: 137.731 ms
Loss rate: 2.88%
-- Flow 1:
Average throughput: 1.43 Mbit/s
95th percentile per-packet one-way delay: 137.802 ms
Loss rate: 2.93%
-- Flow 2:
Average throughput: 2.03 Mbit/s
95th percentile per-packet one-way delay: 137.643 ms
Loss rate: 2.47%
-- Flow 3:
Average throughput: 1.33 Mbit/s
95th percentile per-packet one-way delay: 137.757 ms
Loss rate: 4.00%
```

Run 10: Report of LEDBAT — Data Link

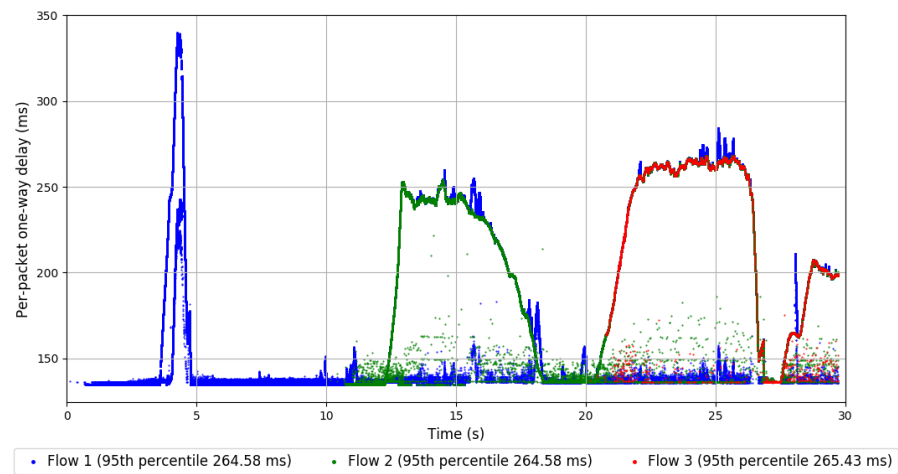
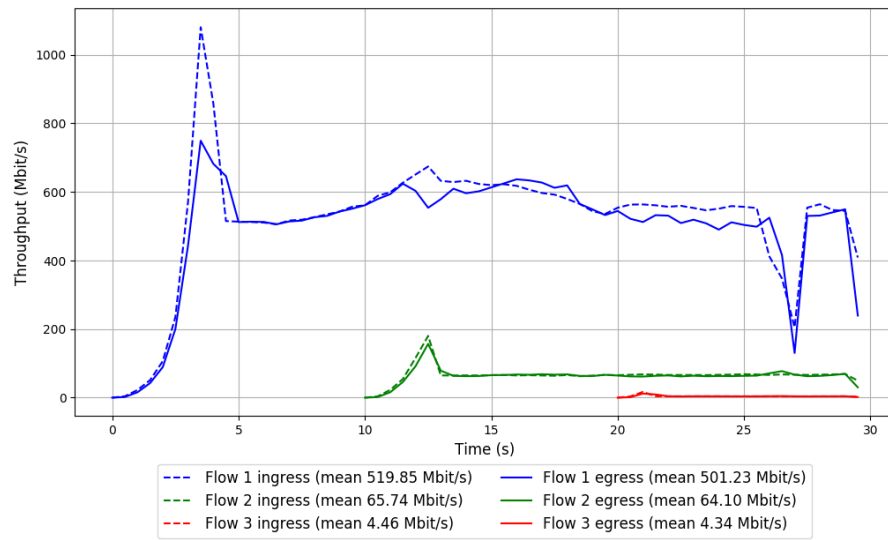


```
Run 1: Statistics of PCC

Start at: 2017-12-01 09:02:10
End at: 2017-12-01 09:02:40

# Below is generated by plot.py at 2017-12-01 13:44:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 544.99 Mbit/s
95th percentile per-packet one-way delay: 264.591 ms
Loss rate: 4.42%
-- Flow 1:
Average throughput: 501.23 Mbit/s
95th percentile per-packet one-way delay: 264.578 ms
Loss rate: 4.47%
-- Flow 2:
Average throughput: 64.10 Mbit/s
95th percentile per-packet one-way delay: 264.585 ms
Loss rate: 3.82%
-- Flow 3:
Average throughput: 4.34 Mbit/s
95th percentile per-packet one-way delay: 265.427 ms
Loss rate: 5.33%
```

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2017-12-01 09:16:29

End at: 2017-12-01 09:16:59

Below is generated by plot.py at 2017-12-01 13:45:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 573.88 Mbit/s

95th percentile per-packet one-way delay: 246.883 ms

Loss rate: 3.97%

-- Flow 1:

Average throughput: 519.52 Mbit/s

95th percentile per-packet one-way delay: 247.821 ms

Loss rate: 3.98%

-- Flow 2:

Average throughput: 66.87 Mbit/s

95th percentile per-packet one-way delay: 243.025 ms

Loss rate: 3.13%

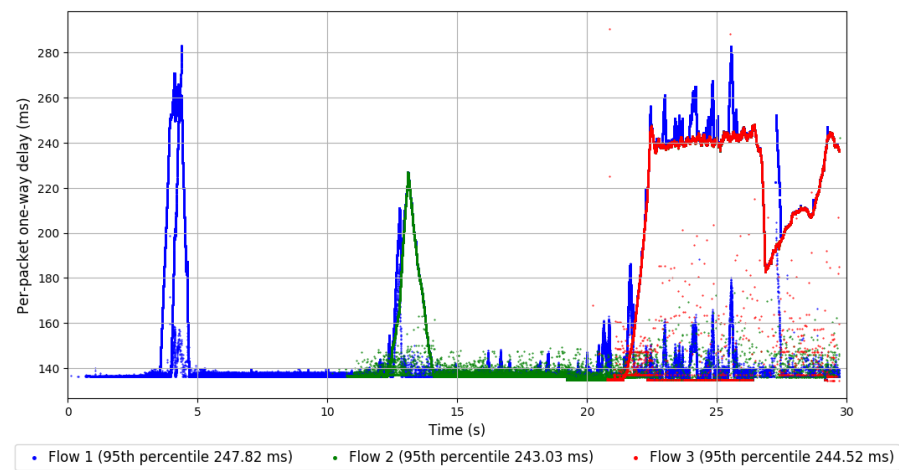
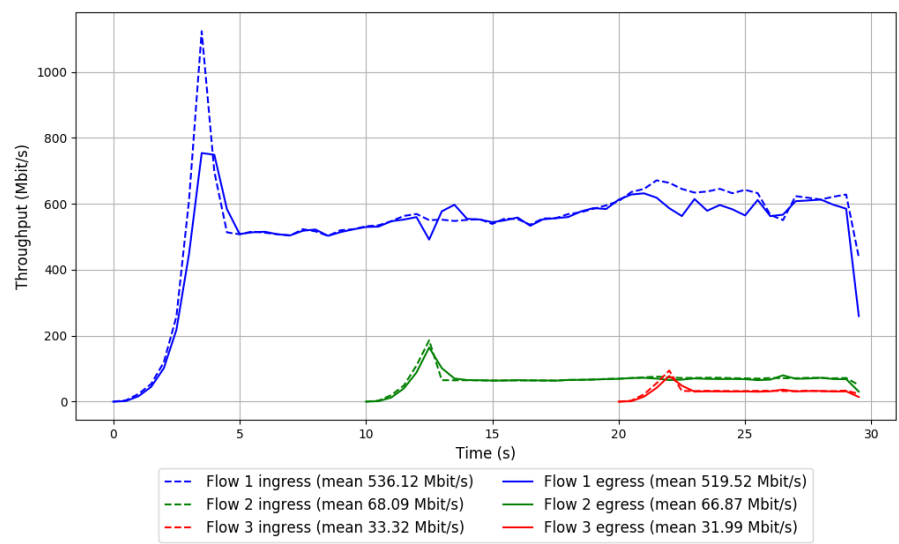
-- Flow 3:

Average throughput: 31.99 Mbit/s

95th percentile per-packet one-way delay: 244.524 ms

Loss rate: 6.97%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2017-12-01 09:29:54

End at: 2017-12-01 09:30:24

Below is generated by plot.py at 2017-12-01 13:45:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 573.33 Mbit/s

95th percentile per-packet one-way delay: 323.061 ms

Loss rate: 4.51%

-- Flow 1:

Average throughput: 483.04 Mbit/s

95th percentile per-packet one-way delay: 325.183 ms

Loss rate: 4.57%

-- Flow 2:

Average throughput: 120.66 Mbit/s

95th percentile per-packet one-way delay: 249.030 ms

Loss rate: 4.10%

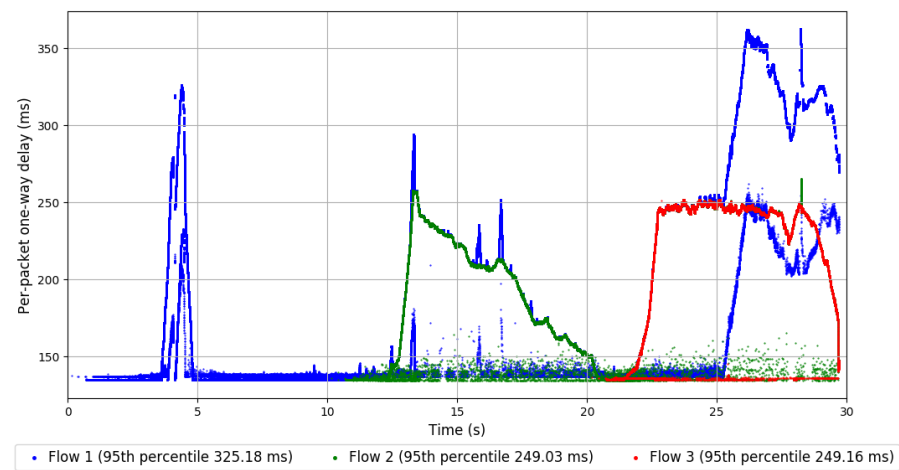
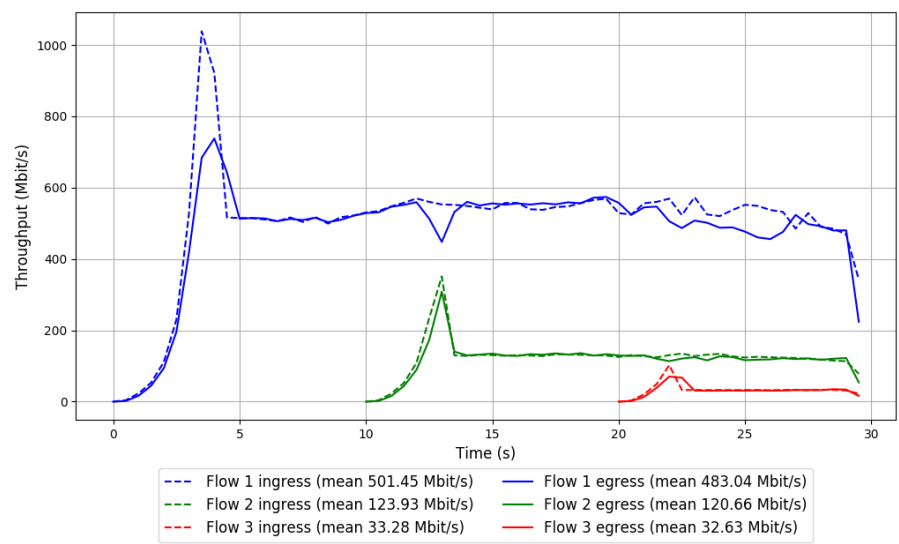
-- Flow 3:

Average throughput: 32.63 Mbit/s

95th percentile per-packet one-way delay: 249.157 ms

Loss rate: 4.71%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2017-12-01 09:43:51

End at: 2017-12-01 09:44:21

Below is generated by plot.py at 2017-12-01 13:45:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 492.61 Mbit/s

95th percentile per-packet one-way delay: 271.082 ms

Loss rate: 4.34%

-- Flow 1:

Average throughput: 453.22 Mbit/s

95th percentile per-packet one-way delay: 272.964 ms

Loss rate: 4.02%

-- Flow 2:

Average throughput: 4.39 Mbit/s

95th percentile per-packet one-way delay: 243.838 ms

Loss rate: 2.63%

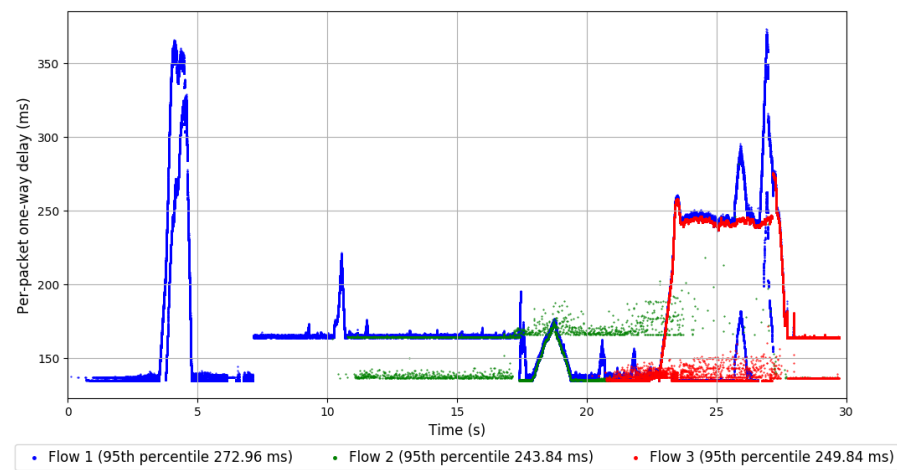
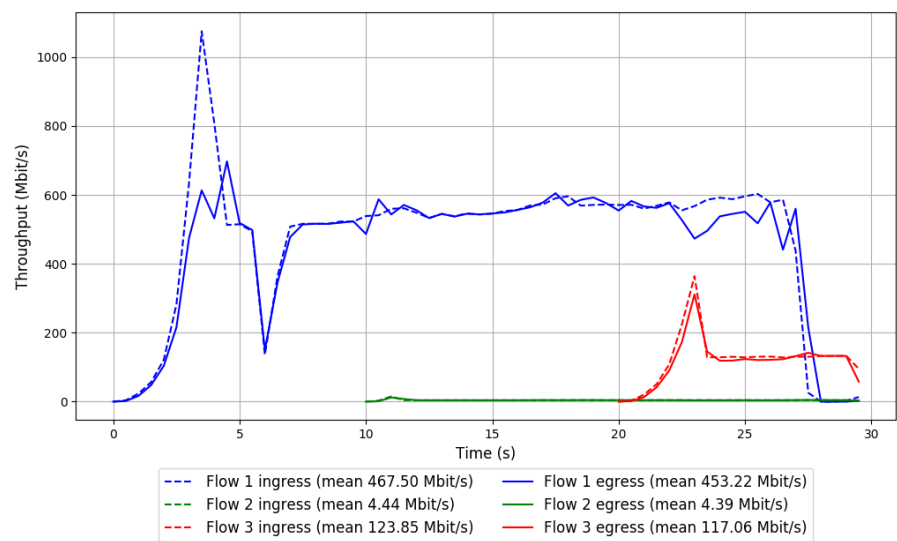
-- Flow 3:

Average throughput: 117.06 Mbit/s

95th percentile per-packet one-way delay: 249.838 ms

Loss rate: 8.11%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2017-12-01 09:57:28

End at: 2017-12-01 09:57:58

Below is generated by plot.py at 2017-12-01 13:45:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 13.03 Mbit/s

95th percentile per-packet one-way delay: 166.085 ms

Loss rate: 1.77%

-- Flow 1:

Average throughput: 7.22 Mbit/s

95th percentile per-packet one-way delay: 166.093 ms

Loss rate: 1.32%

-- Flow 2:

Average throughput: 4.59 Mbit/s

95th percentile per-packet one-way delay: 166.100 ms

Loss rate: 1.62%

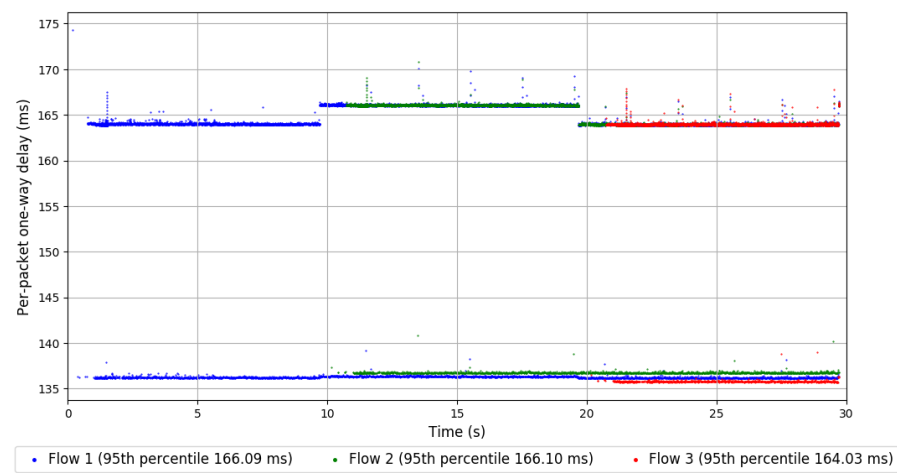
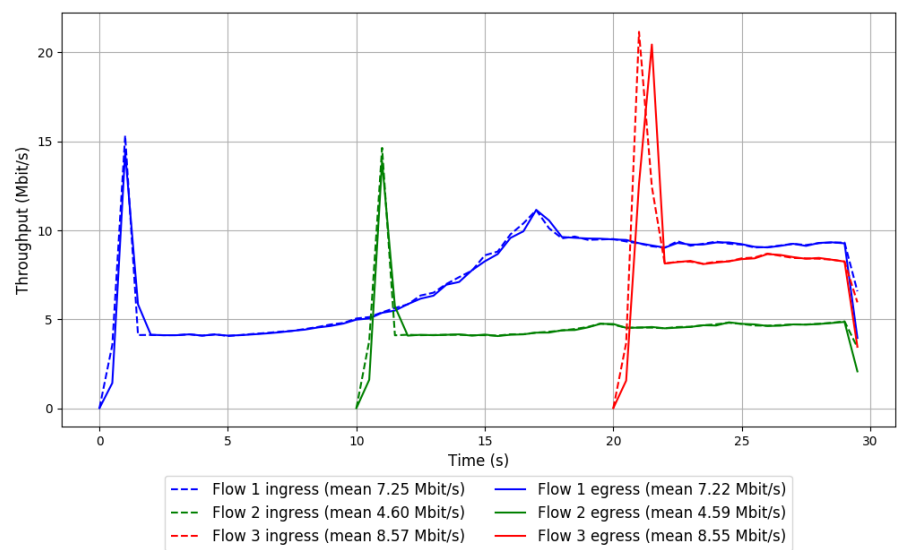
-- Flow 3:

Average throughput: 8.55 Mbit/s

95th percentile per-packet one-way delay: 164.031 ms

Loss rate: 3.09%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2017-12-01 10:10:38

End at: 2017-12-01 10:11:08

Below is generated by plot.py at 2017-12-01 13:45:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 365.57 Mbit/s

95th percentile per-packet one-way delay: 238.025 ms

Loss rate: 3.78%

-- Flow 1:

Average throughput: 6.03 Mbit/s

95th percentile per-packet one-way delay: 235.647 ms

Loss rate: 2.04%

-- Flow 2:

Average throughput: 483.77 Mbit/s

95th percentile per-packet one-way delay: 237.747 ms

Loss rate: 3.48%

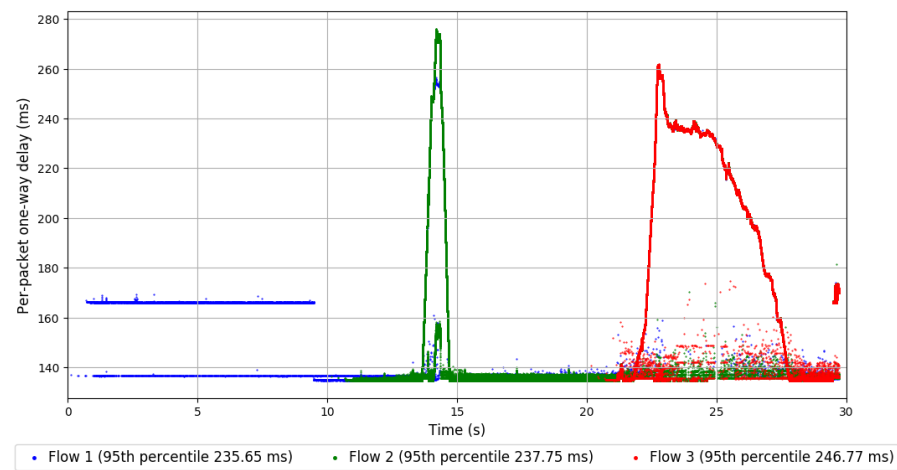
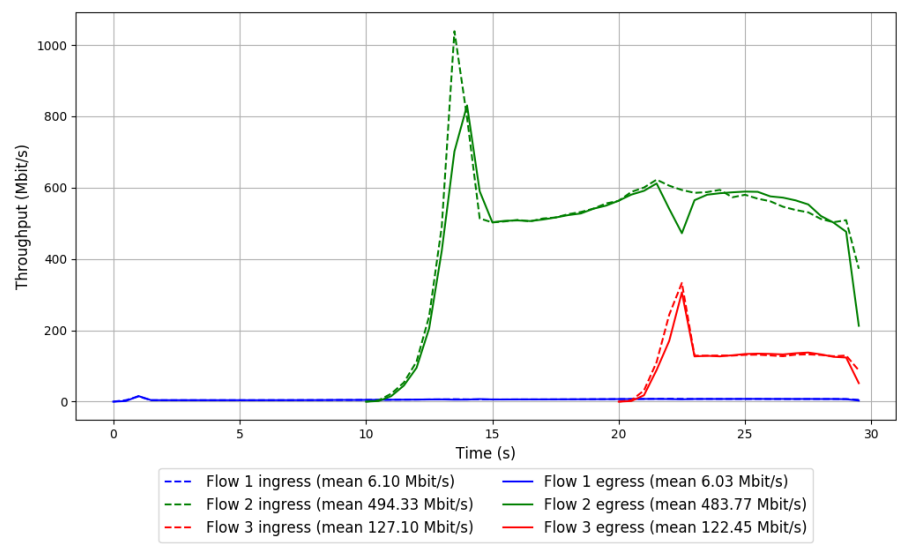
-- Flow 3:

Average throughput: 122.45 Mbit/s

95th percentile per-packet one-way delay: 246.772 ms

Loss rate: 6.37%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2017-12-01 10:24:04

End at: 2017-12-01 10:24:34

Below is generated by plot.py at 2017-12-01 13:45:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 350.09 Mbit/s

95th percentile per-packet one-way delay: 291.312 ms

Loss rate: 5.06%

-- Flow 1:

Average throughput: 6.32 Mbit/s

95th percentile per-packet one-way delay: 274.742 ms

Loss rate: 2.32%

-- Flow 2:

Average throughput: 462.97 Mbit/s

95th percentile per-packet one-way delay: 293.352 ms

Loss rate: 4.77%

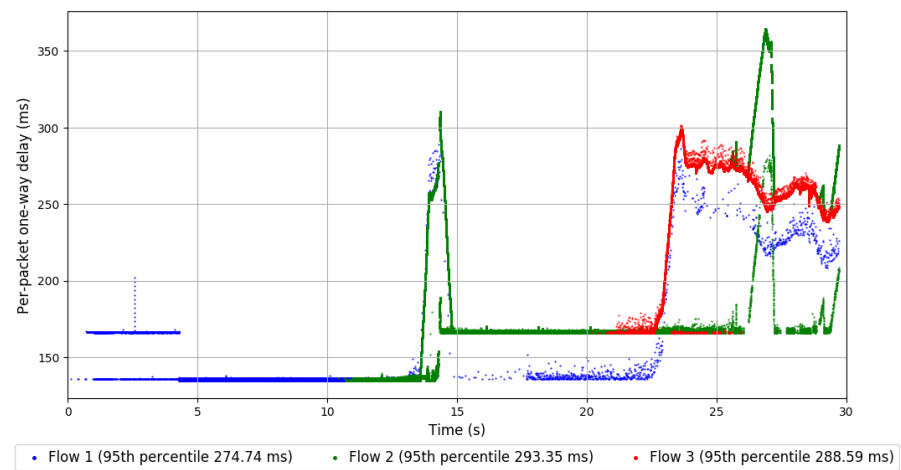
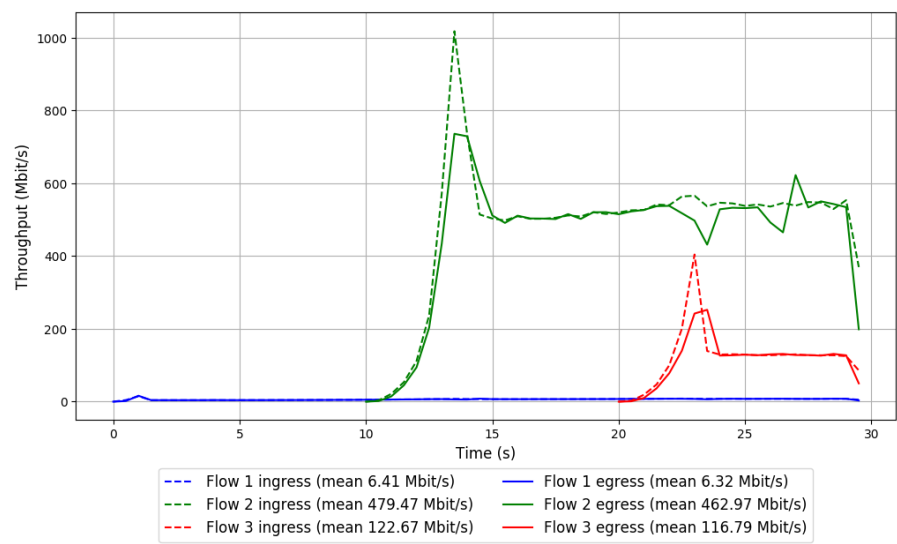
-- Flow 3:

Average throughput: 116.79 Mbit/s

95th percentile per-packet one-way delay: 288.588 ms

Loss rate: 7.72%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2017-12-01 10:37:27

End at: 2017-12-01 10:37:57

Below is generated by plot.py at 2017-12-01 13:45:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 130.92 Mbit/s

95th percentile per-packet one-way delay: 242.879 ms

Loss rate: 5.25%

-- Flow 1:

Average throughput: 10.71 Mbit/s

95th percentile per-packet one-way delay: 166.289 ms

Loss rate: 1.37%

-- Flow 2:

Average throughput: 4.58 Mbit/s

95th percentile per-packet one-way delay: 166.645 ms

Loss rate: 1.62%

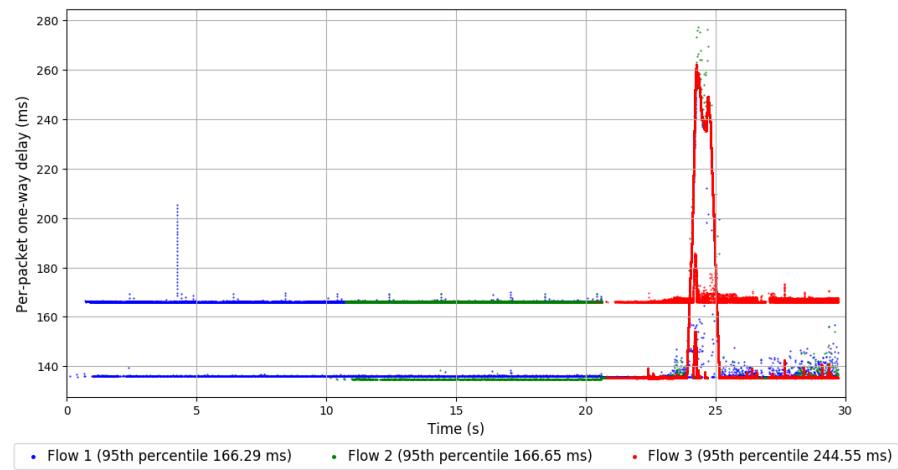
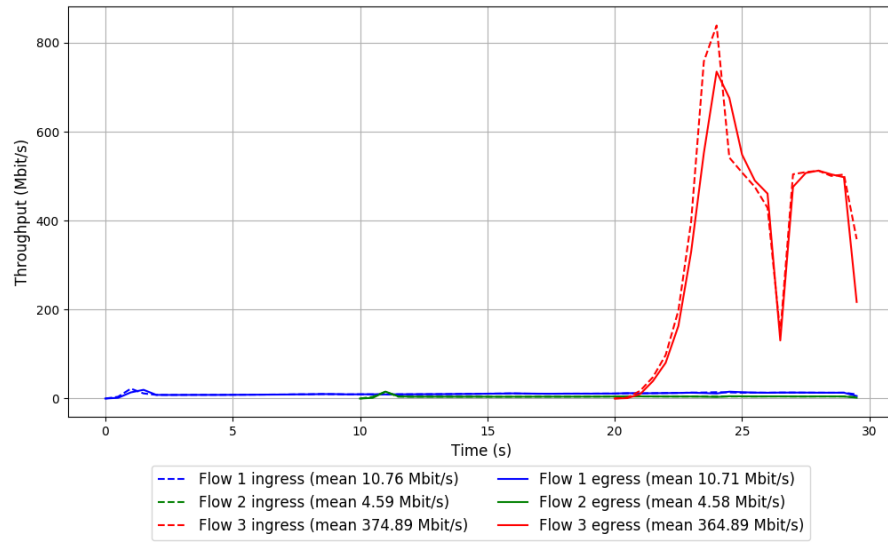
-- Flow 3:

Average throughput: 364.89 Mbit/s

95th percentile per-packet one-way delay: 244.548 ms

Loss rate: 5.68%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2017-12-01 10:50:44

End at: 2017-12-01 10:51:14

Below is generated by plot.py at 2017-12-01 13:45:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 524.01 Mbit/s

95th percentile per-packet one-way delay: 348.690 ms

Loss rate: 4.45%

-- Flow 1:

Average throughput: 430.34 Mbit/s

95th percentile per-packet one-way delay: 350.358 ms

Loss rate: 4.60%

-- Flow 2:

Average throughput: 128.33 Mbit/s

95th percentile per-packet one-way delay: 244.402 ms

Loss rate: 3.70%

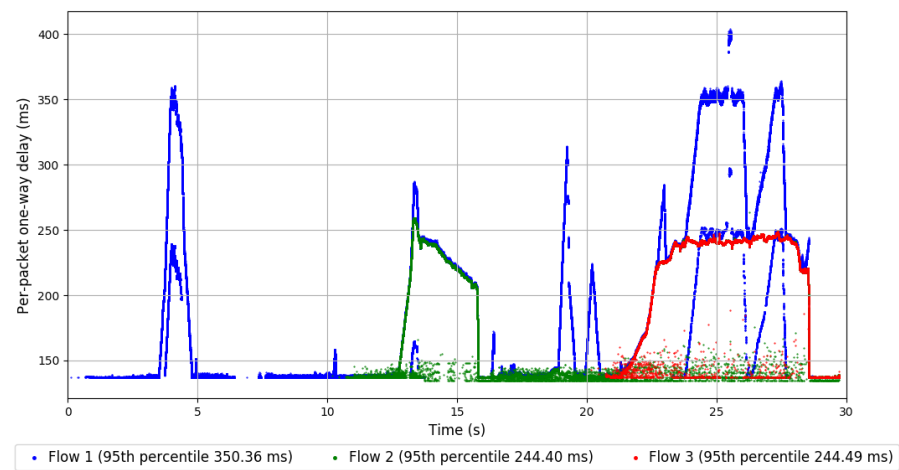
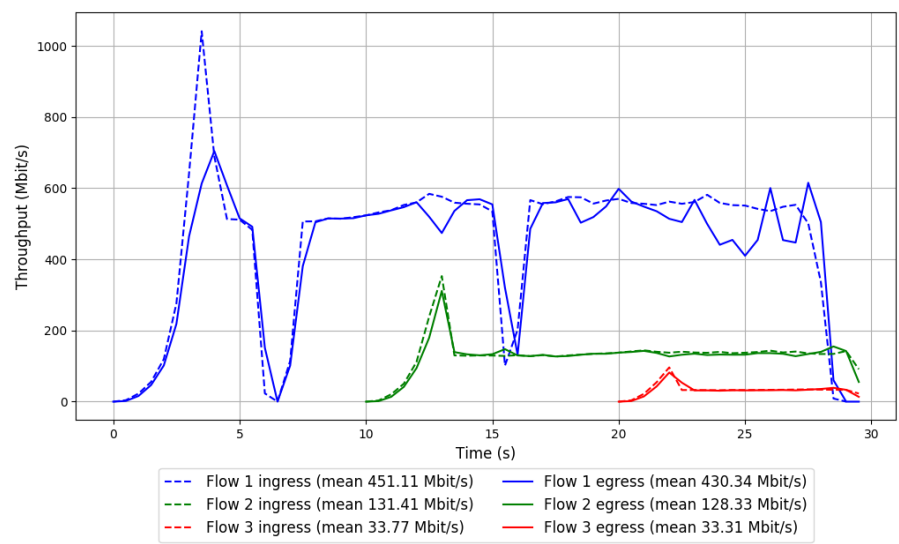
-- Flow 3:

Average throughput: 33.31 Mbit/s

95th percentile per-packet one-way delay: 244.491 ms

Loss rate: 4.14%

Run 9: Report of PCC — Data Link

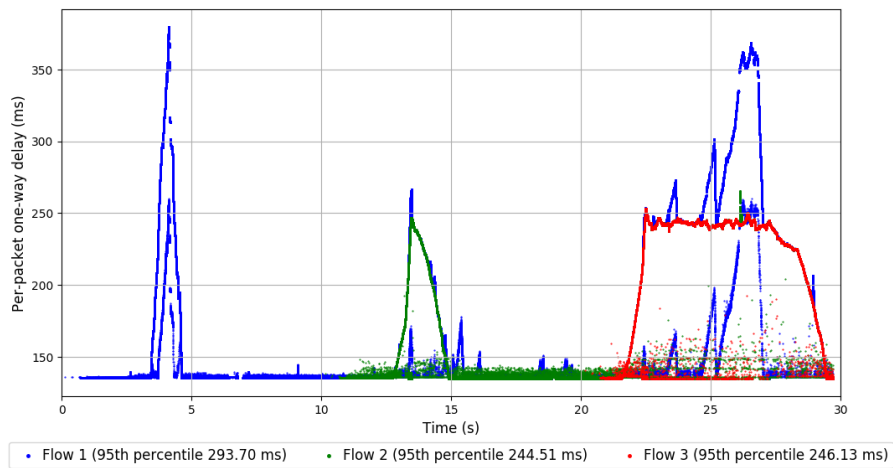
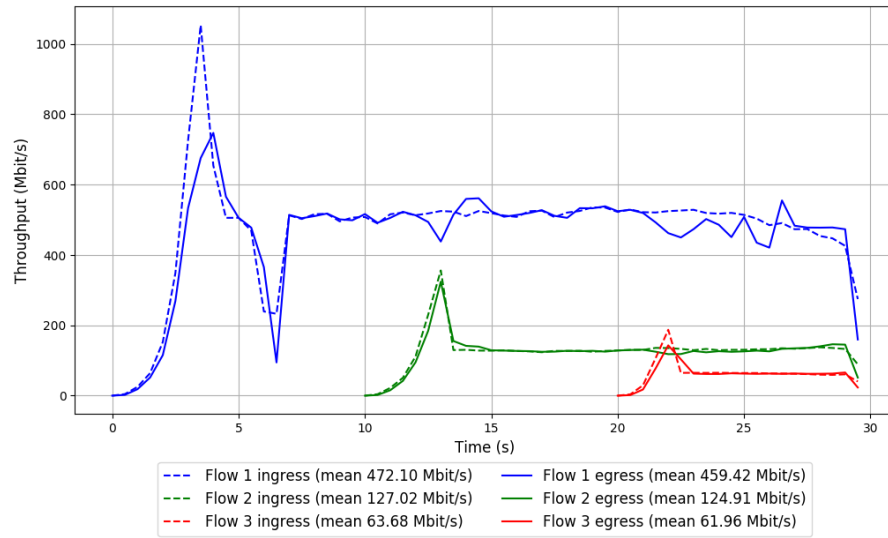


```
Run 10: Statistics of PCC

Start at: 2017-12-01 11:04:35
End at: 2017-12-01 11:05:05

# Below is generated by plot.py at 2017-12-01 13:49:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 562.02 Mbit/s
95th percentile per-packet one-way delay: 285.044 ms
Loss rate: 3.57%
-- Flow 1:
Average throughput: 459.42 Mbit/s
95th percentile per-packet one-way delay: 293.697 ms
Loss rate: 3.58%
-- Flow 2:
Average throughput: 124.91 Mbit/s
95th percentile per-packet one-way delay: 244.512 ms
Loss rate: 3.03%
-- Flow 3:
Average throughput: 61.96 Mbit/s
95th percentile per-packet one-way delay: 246.128 ms
Loss rate: 5.44%
```

Run 10: Report of PCC — Data Link

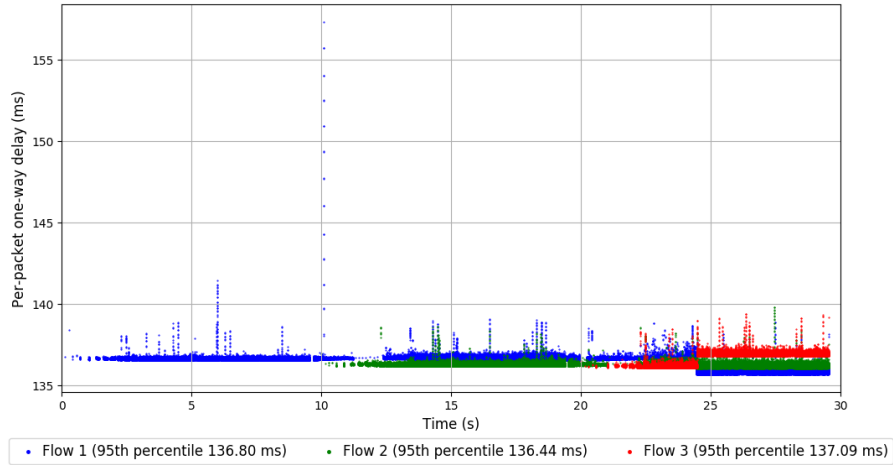
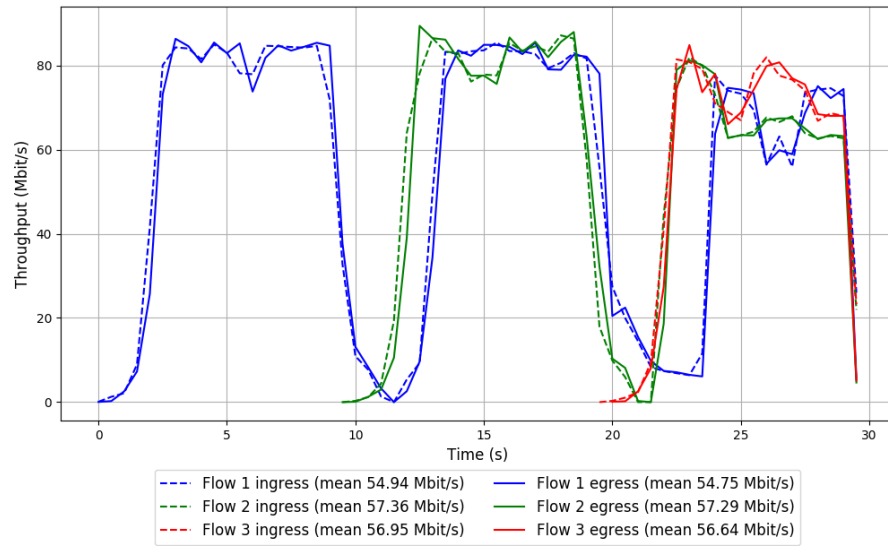


```
Run 1: Statistics of QUIC Cubic

Start at: 2017-12-01 08:55:43
End at: 2017-12-01 08:56:13

# Below is generated by plot.py at 2017-12-01 13:49:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 111.21 Mbit/s
95th percentile per-packet one-way delay: 136.940 ms
Loss rate: 1.67%
-- Flow 1:
Average throughput: 54.75 Mbit/s
95th percentile per-packet one-way delay: 136.801 ms
Loss rate: 1.25%
-- Flow 2:
Average throughput: 57.29 Mbit/s
95th percentile per-packet one-way delay: 136.438 ms
Loss rate: 1.49%
-- Flow 3:
Average throughput: 56.64 Mbit/s
95th percentile per-packet one-way delay: 137.087 ms
Loss rate: 3.28%
```


Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2017-12-01 09:09:45

End at: 2017-12-01 09:10:15

Below is generated by plot.py at 2017-12-01 13:49:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 122.21 Mbit/s

95th percentile per-packet one-way delay: 136.892 ms

Loss rate: 1.09%

-- Flow 1:

Average throughput: 62.76 Mbit/s

95th percentile per-packet one-way delay: 136.979 ms

Loss rate: 0.86%

-- Flow 2:

Average throughput: 60.67 Mbit/s

95th percentile per-packet one-way delay: 136.706 ms

Loss rate: 0.33%

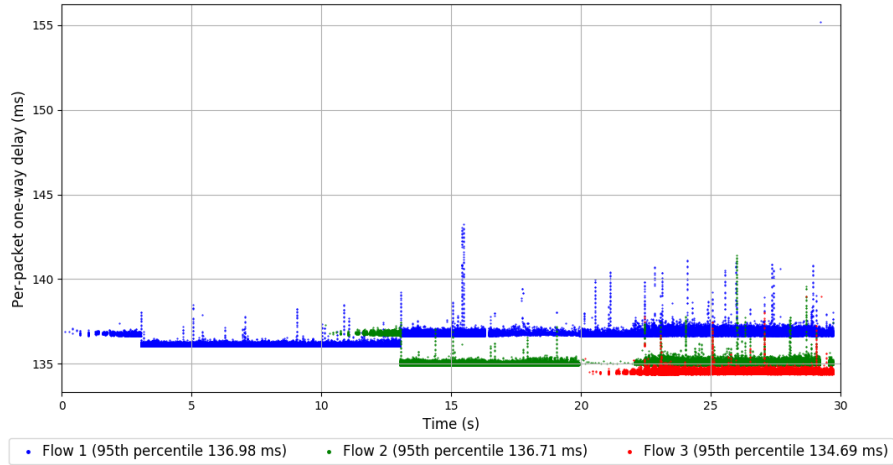
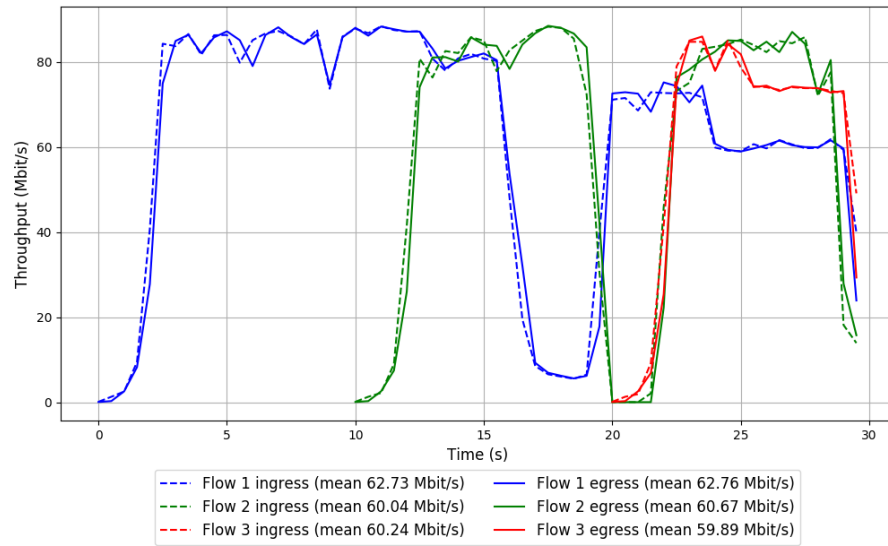
-- Flow 3:

Average throughput: 59.89 Mbit/s

95th percentile per-packet one-way delay: 134.690 ms

Loss rate: 3.34%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2017-12-01 09:23:25

End at: 2017-12-01 09:23:55

Below is generated by plot.py at 2017-12-01 13:49:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 110.42 Mbit/s

95th percentile per-packet one-way delay: 136.998 ms

Loss rate: 1.57%

-- Flow 1:

Average throughput: 58.76 Mbit/s

95th percentile per-packet one-way delay: 136.398 ms

Loss rate: 0.91%

-- Flow 2:

Average throughput: 59.47 Mbit/s

95th percentile per-packet one-way delay: 136.504 ms

Loss rate: 1.19%

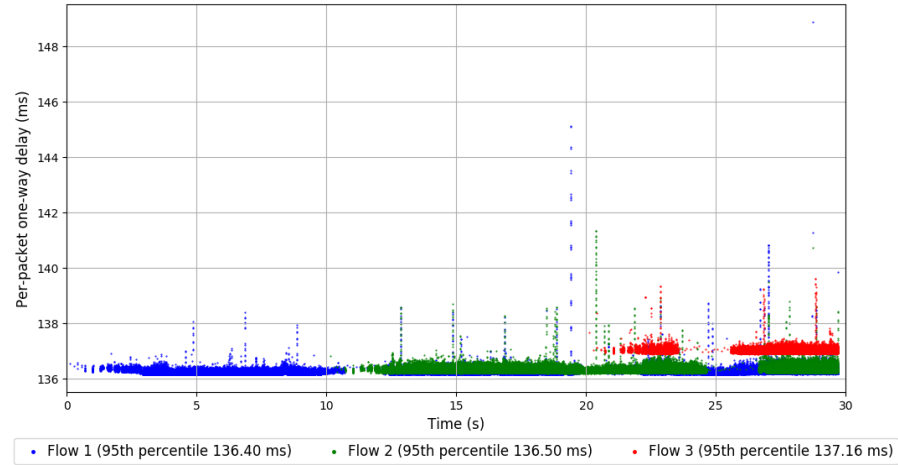
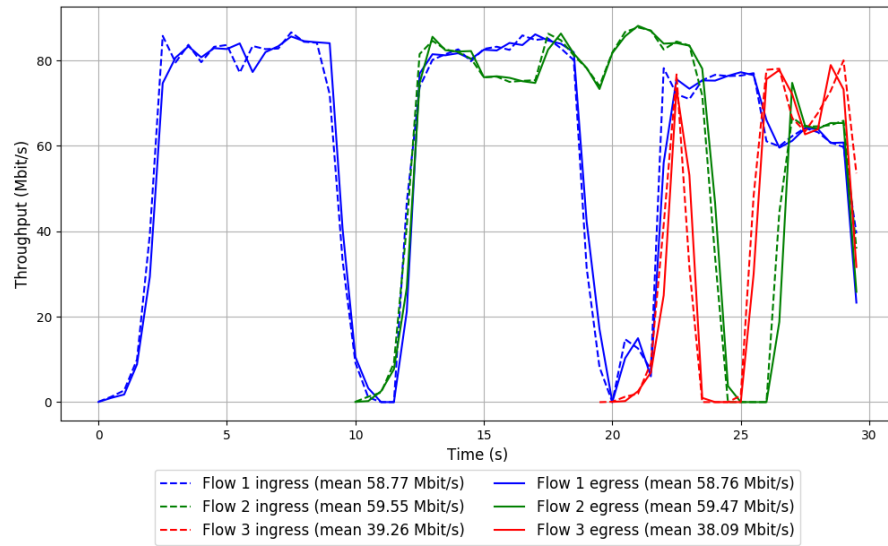
-- Flow 3:

Average throughput: 38.09 Mbit/s

95th percentile per-packet one-way delay: 137.156 ms

Loss rate: 5.68%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2017-12-01 09:37:12

End at: 2017-12-01 09:37:42

Below is generated by plot.py at 2017-12-01 13:49:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 99.12 Mbit/s

95th percentile per-packet one-way delay: 136.319 ms

Loss rate: 1.85%

-- Flow 1:

Average throughput: 50.97 Mbit/s

95th percentile per-packet one-way delay: 136.287 ms

Loss rate: 1.36%

-- Flow 2:

Average throughput: 58.97 Mbit/s

95th percentile per-packet one-way delay: 136.351 ms

Loss rate: 1.54%

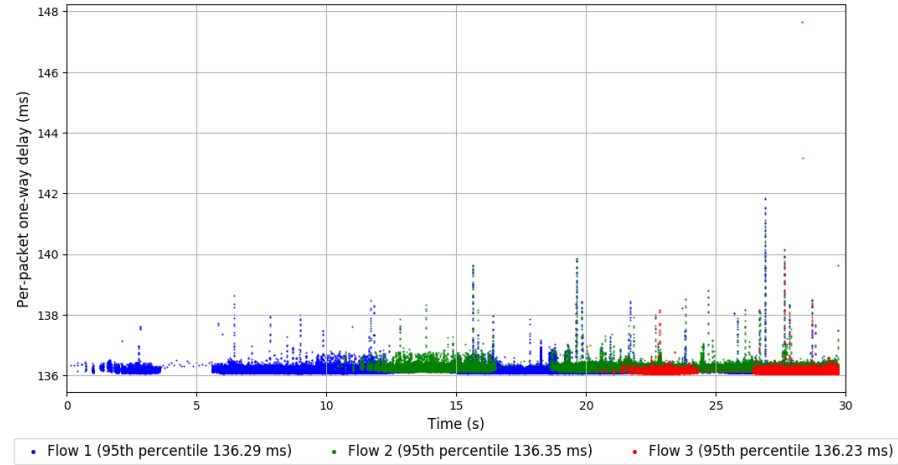
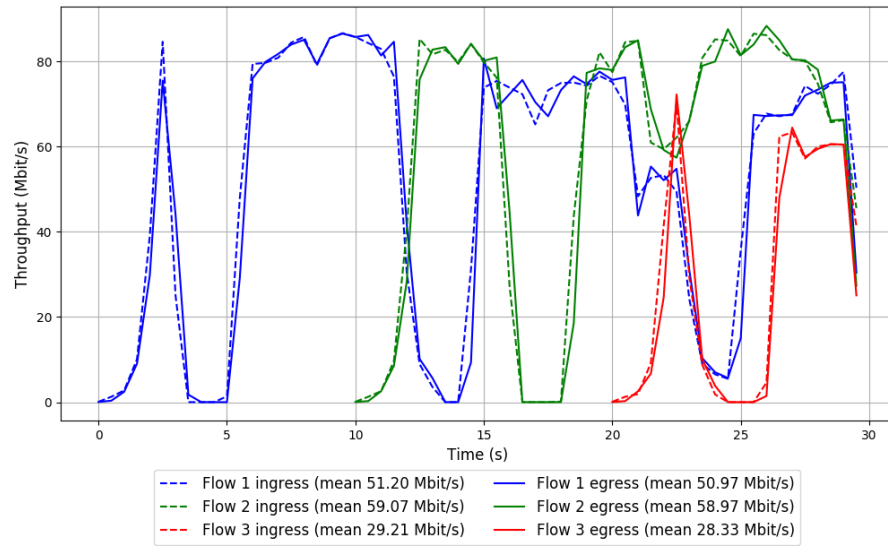
-- Flow 3:

Average throughput: 28.33 Mbit/s

95th percentile per-packet one-way delay: 136.234 ms

Loss rate: 5.71%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2017-12-01 09:50:54

End at: 2017-12-01 09:51:24

Below is generated by plot.py at 2017-12-01 13:49:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 101.50 Mbit/s

95th percentile per-packet one-way delay: 166.182 ms

Loss rate: 1.65%

-- Flow 1:

Average throughput: 51.68 Mbit/s

95th percentile per-packet one-way delay: 166.230 ms

Loss rate: 1.45%

-- Flow 2:

Average throughput: 59.10 Mbit/s

95th percentile per-packet one-way delay: 166.028 ms

Loss rate: 1.66%

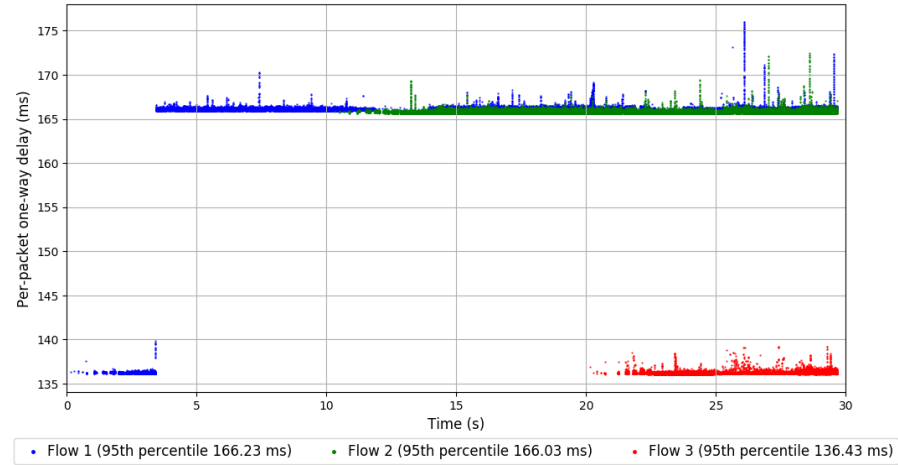
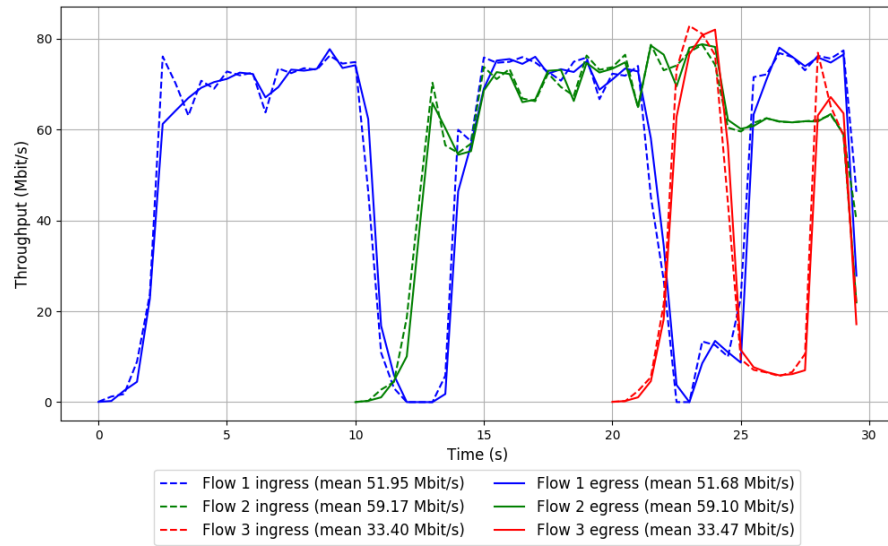
-- Flow 3:

Average throughput: 33.47 Mbit/s

95th percentile per-packet one-way delay: 136.429 ms

Loss rate: 2.54%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2017-12-01 10:04:10

End at: 2017-12-01 10:04:40

Below is generated by plot.py at 2017-12-01 13:49:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 116.06 Mbit/s

95th percentile per-packet one-way delay: 165.952 ms

Loss rate: 0.86%

-- Flow 1:

Average throughput: 64.25 Mbit/s

95th percentile per-packet one-way delay: 165.936 ms

Loss rate: 1.27%

-- Flow 2:

Average throughput: 61.07 Mbit/s

95th percentile per-packet one-way delay: 164.210 ms

Loss rate: 0.31%

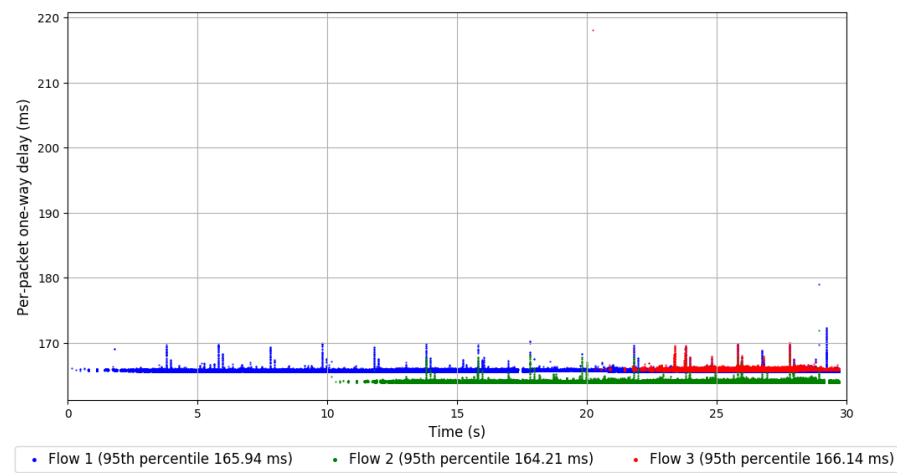
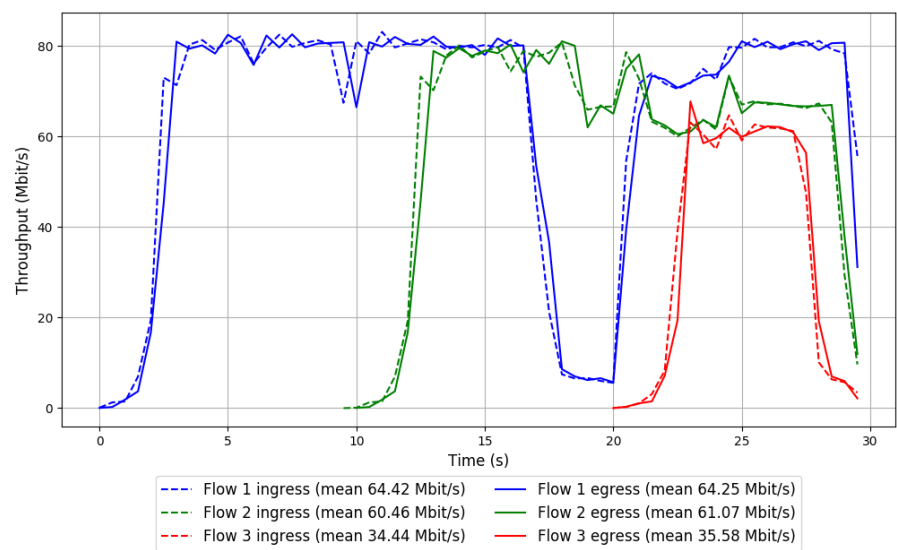
-- Flow 3:

Average throughput: 35.58 Mbit/s

95th percentile per-packet one-way delay: 166.144 ms

Loss rate: 0.45%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2017-12-01 10:17:39

End at: 2017-12-01 10:18:09

Below is generated by plot.py at 2017-12-01 13:49:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 105.55 Mbit/s

95th percentile per-packet one-way delay: 168.165 ms

Loss rate: 0.86%

-- Flow 1:

Average throughput: 50.68 Mbit/s

95th percentile per-packet one-way delay: 135.451 ms

Loss rate: 1.08%

-- Flow 2:

Average throughput: 52.03 Mbit/s

95th percentile per-packet one-way delay: 168.270 ms

Loss rate: 0.29%

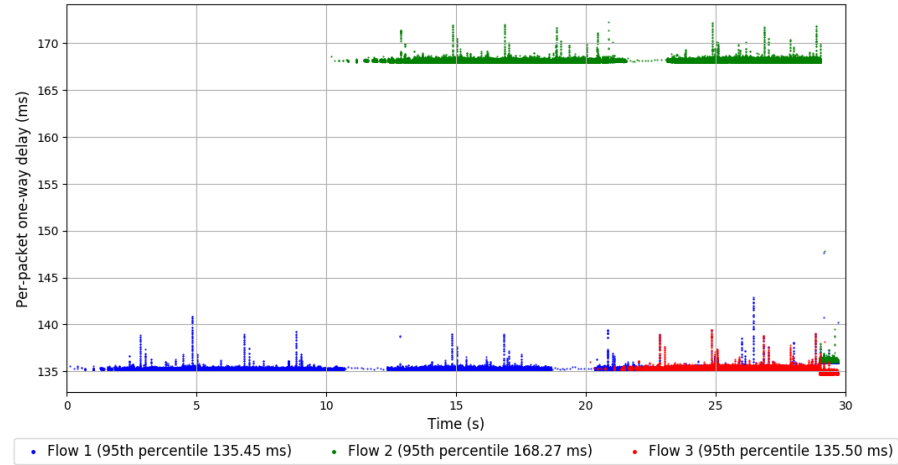
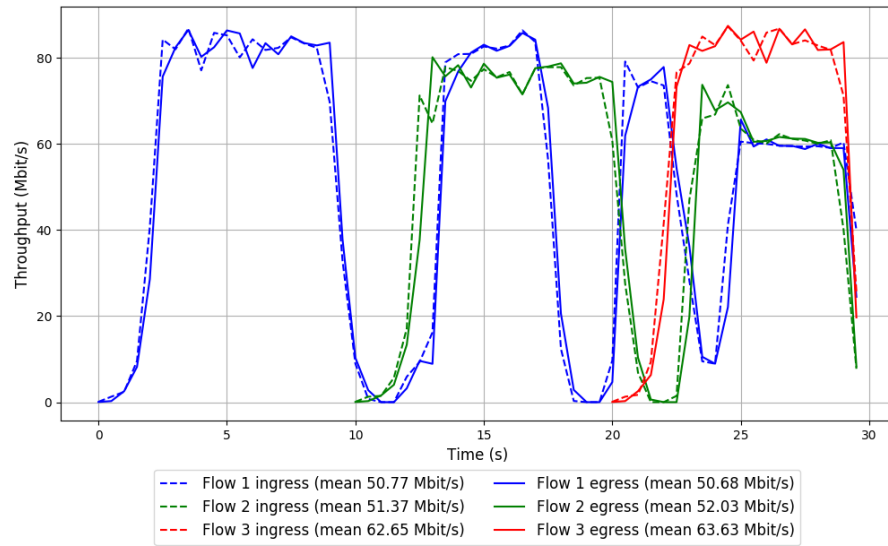
-- Flow 3:

Average throughput: 63.63 Mbit/s

95th percentile per-packet one-way delay: 135.500 ms

Loss rate: 1.26%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2017-12-01 10:31:00

End at: 2017-12-01 10:31:30

Below is generated by plot.py at 2017-12-01 13:49:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 104.64 Mbit/s

95th percentile per-packet one-way delay: 136.661 ms

Loss rate: 1.77%

-- Flow 1:

Average throughput: 58.63 Mbit/s

95th percentile per-packet one-way delay: 136.690 ms

Loss rate: 1.21%

-- Flow 2:

Average throughput: 56.66 Mbit/s

95th percentile per-packet one-way delay: 136.365 ms

Loss rate: 1.46%

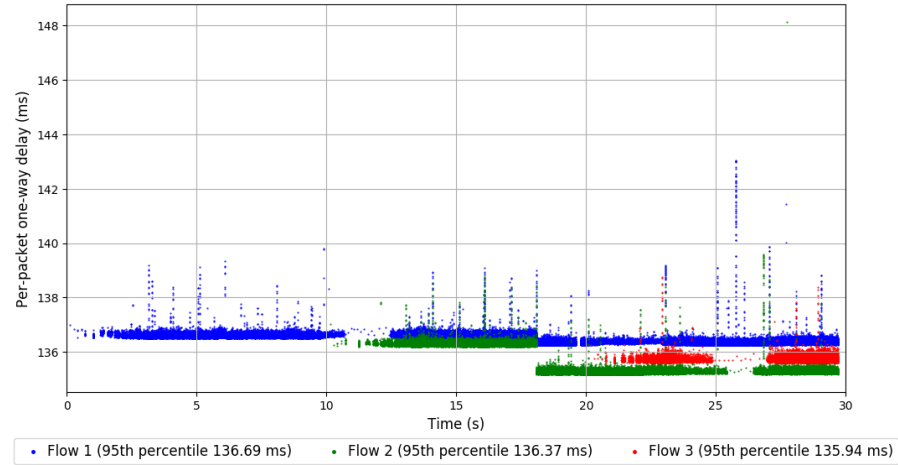
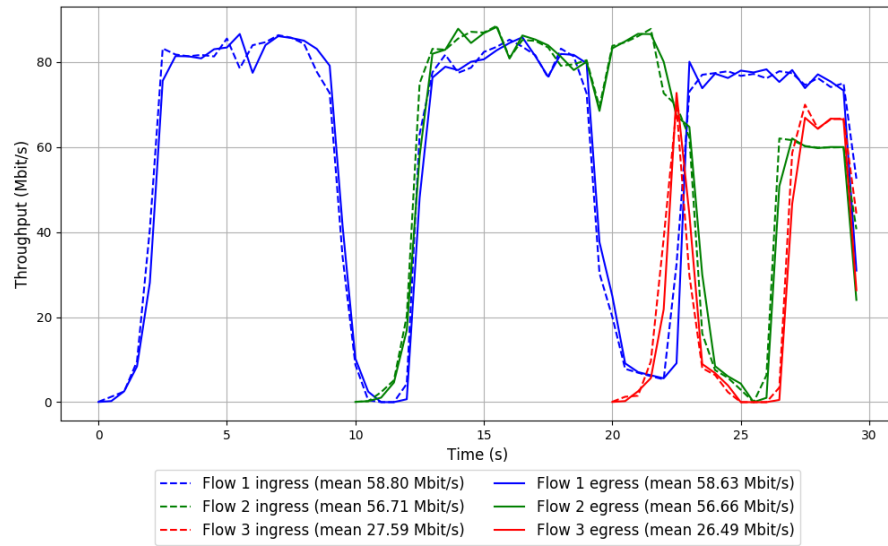
-- Flow 3:

Average throughput: 26.49 Mbit/s

95th percentile per-packet one-way delay: 135.939 ms

Loss rate: 6.67%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2017-12-01 10:44:06

End at: 2017-12-01 10:44:36

Below is generated by plot.py at 2017-12-01 13:49:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.61 Mbit/s

95th percentile per-packet one-way delay: 136.351 ms

Loss rate: 1.59%

-- Flow 1:

Average throughput: 68.56 Mbit/s

95th percentile per-packet one-way delay: 136.203 ms

Loss rate: 1.19%

-- Flow 2:

Average throughput: 8.33 Mbit/s

95th percentile per-packet one-way delay: 165.872 ms

Loss rate: 1.93%

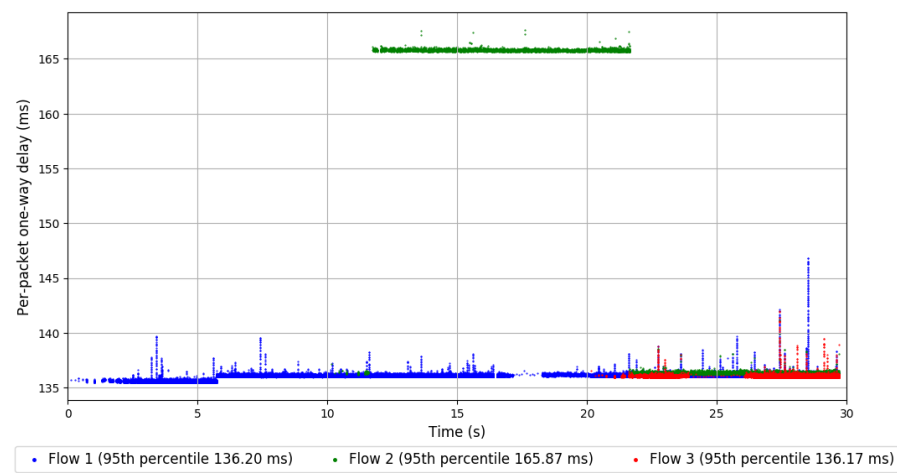
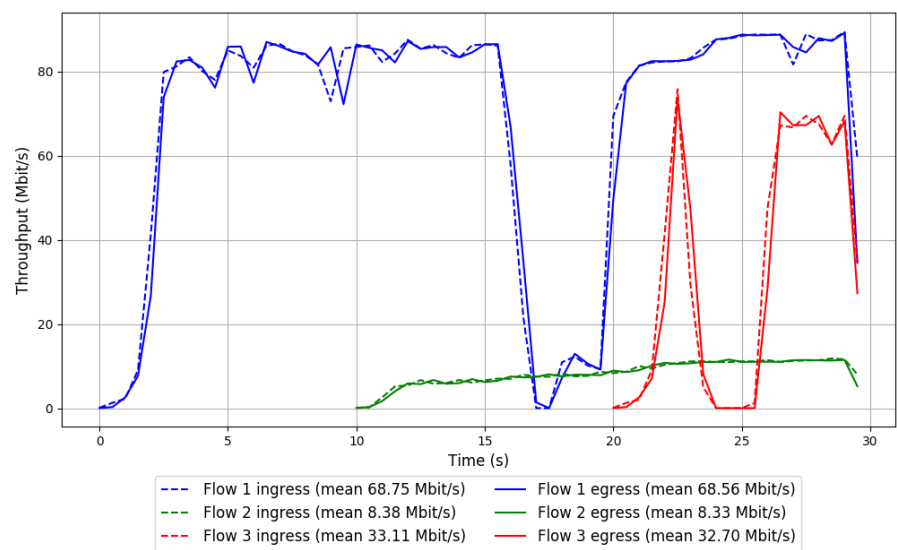
-- Flow 3:

Average throughput: 32.70 Mbit/s

95th percentile per-packet one-way delay: 136.173 ms

Loss rate: 3.96%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2017-12-01 10:57:57

End at: 2017-12-01 10:58:27

Below is generated by plot.py at 2017-12-01 13:49:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 108.51 Mbit/s

95th percentile per-packet one-way delay: 136.732 ms

Loss rate: 0.59%

-- Flow 1:

Average throughput: 58.03 Mbit/s

95th percentile per-packet one-way delay: 135.856 ms

Loss rate: 0.97%

-- Flow 2:

Average throughput: 61.27 Mbit/s

95th percentile per-packet one-way delay: 136.806 ms

Loss rate: 0.11%

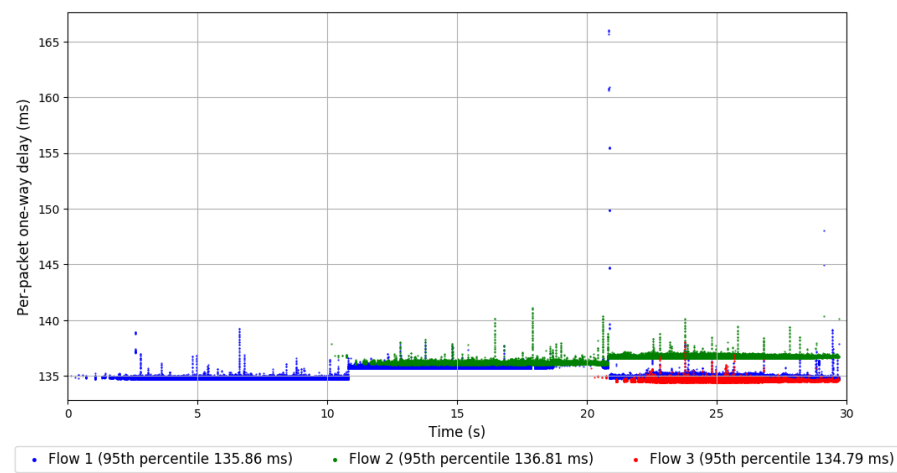
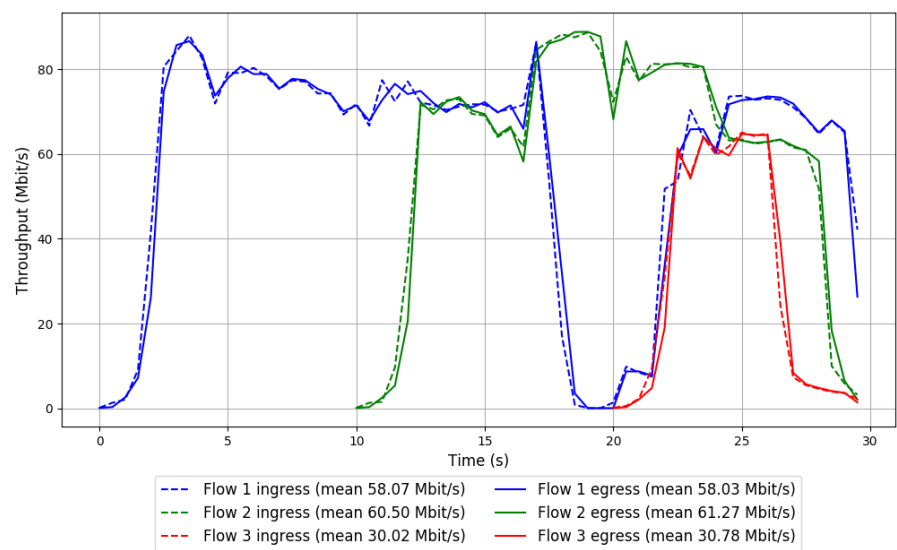
-- Flow 3:

Average throughput: 30.78 Mbit/s

95th percentile per-packet one-way delay: 134.792 ms

Loss rate: 0.31%

Run 10: Report of QUIC Cubic — Data Link

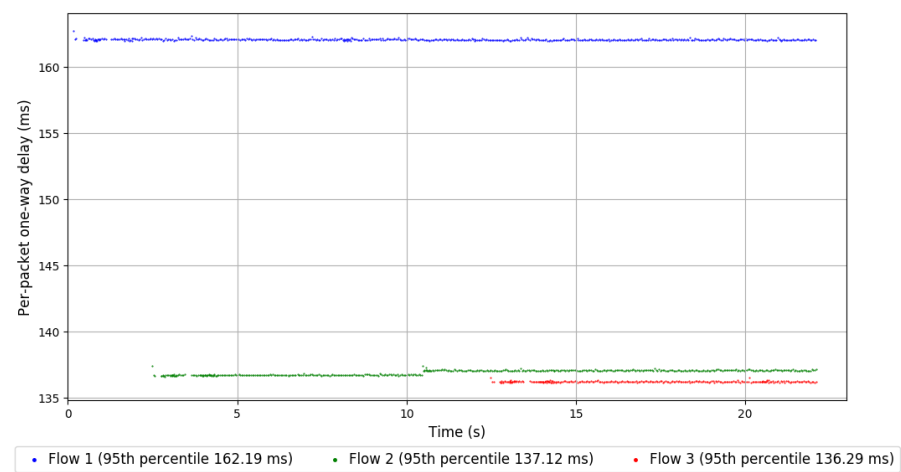
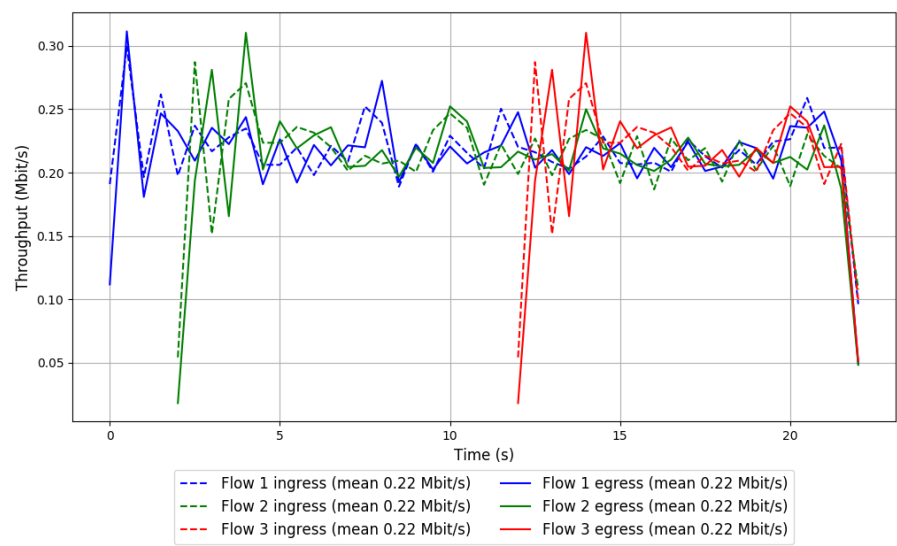


Run 1: Statistics of SReAM

Start at: 2017-12-01 08:56:40

End at: 2017-12-01 08:57:10

Run 1: Report of SReAM — Data Link

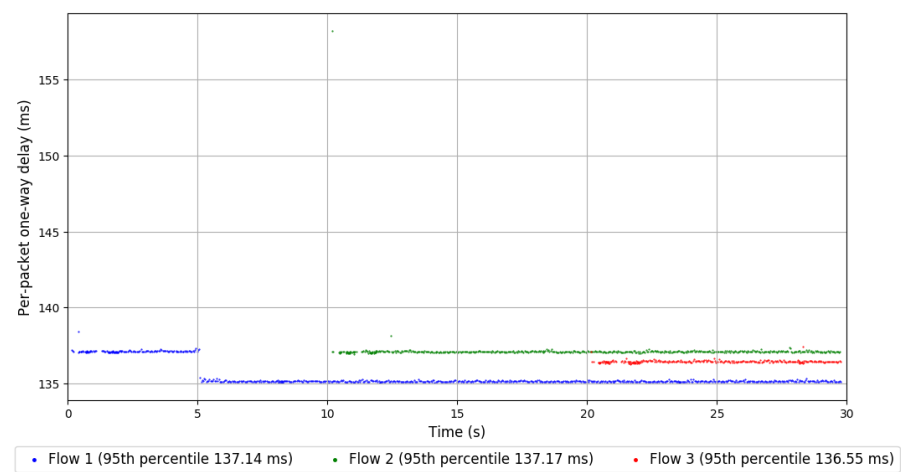
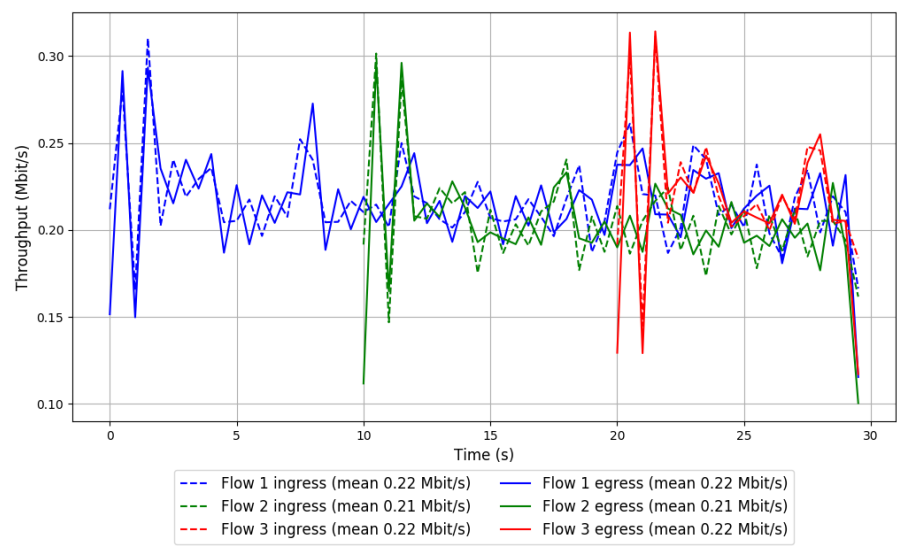


```
Run 2: Statistics of SCReAM

Start at: 2017-12-01 09:10:43
End at: 2017-12-01 09:11:13

# Below is generated by plot.py at 2017-12-01 13:49:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 137.153 ms
Loss rate: 1.30%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 137.136 ms
Loss rate: 0.77%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 137.173 ms
Loss rate: 1.42%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.549 ms
Loss rate: 2.63%
```

Run 2: Report of SReAM — Data Link

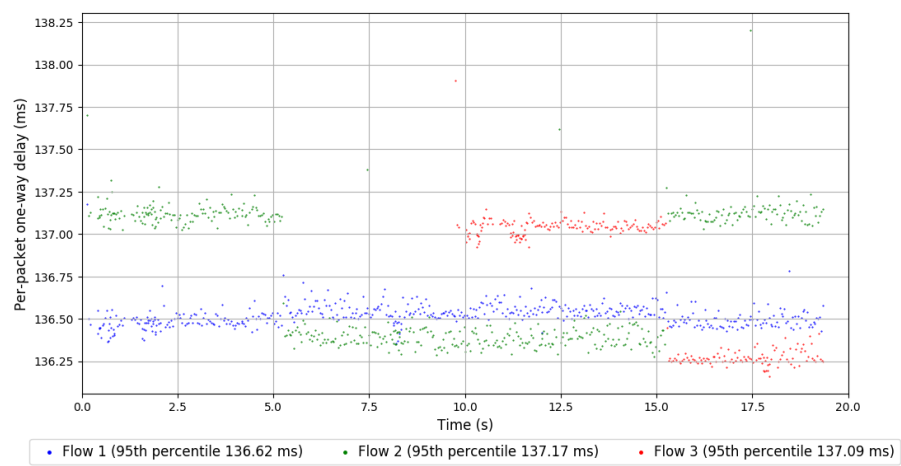
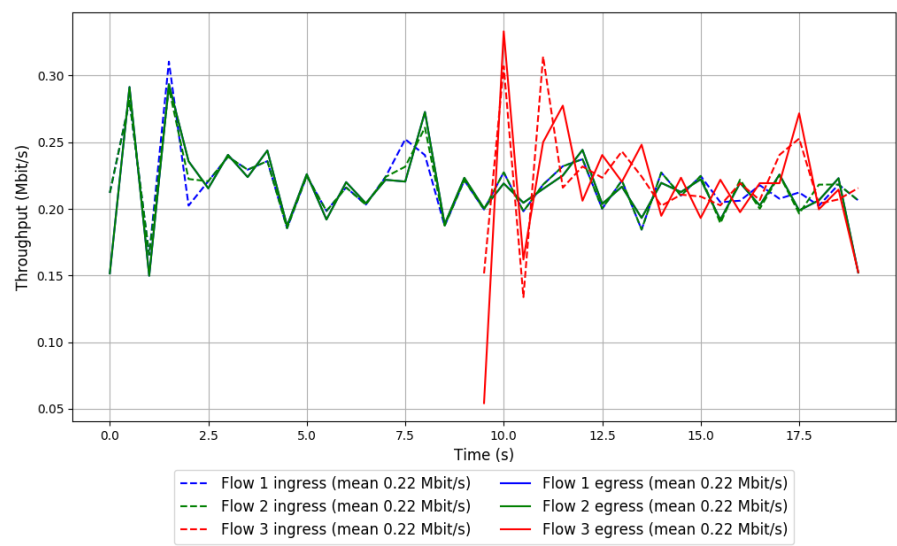


Run 3: Statistics of SReAM

Start at: 2017-12-01 09:24:22

End at: 2017-12-01 09:24:52

Run 3: Report of SReAM — Data Link

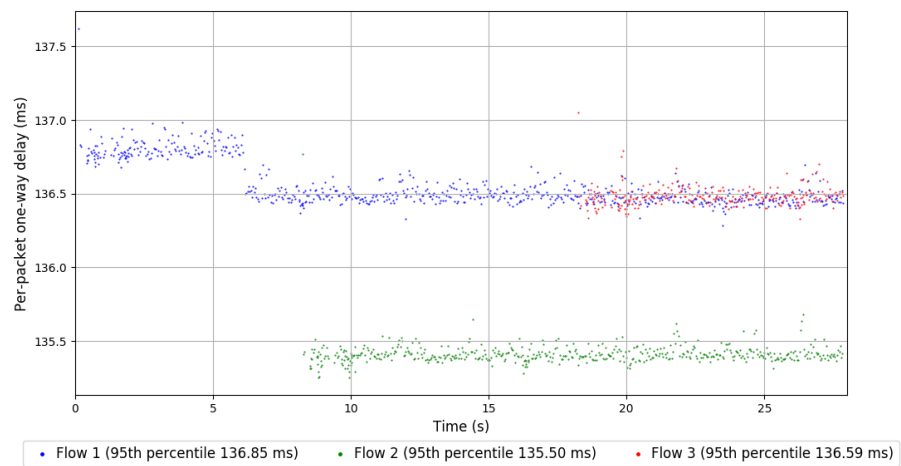
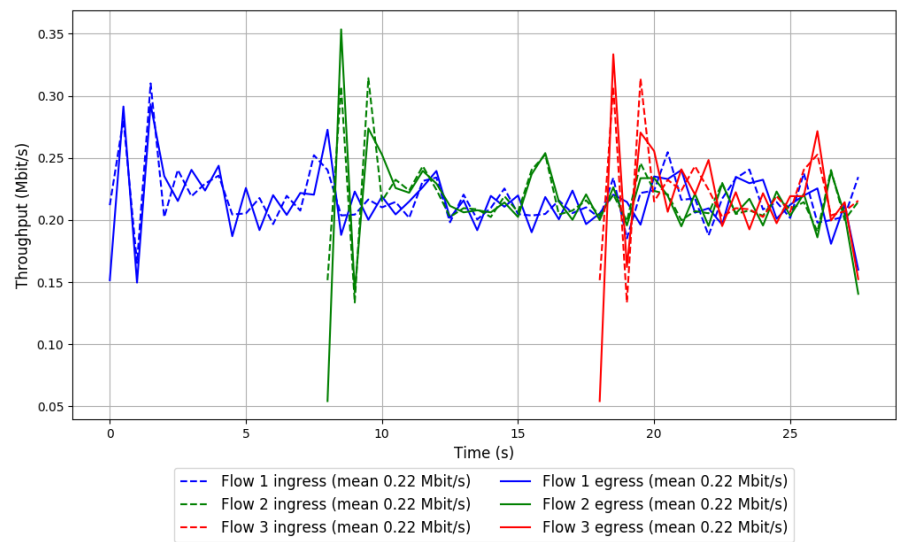


```
Run 4: Statistics of SCReAM

Start at: 2017-12-01 09:38:10
End at: 2017-12-01 09:38:40

# Below is generated by plot.py at 2017-12-01 13:49:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.45 Mbit/s
95th percentile per-packet one-way delay: 136.797 ms
Loss rate: 1.46%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.846 ms
Loss rate: 1.05%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 135.505 ms
Loss rate: 1.42%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.587 ms
Loss rate: 2.63%
```

Run 4: Report of SReAM — Data Link

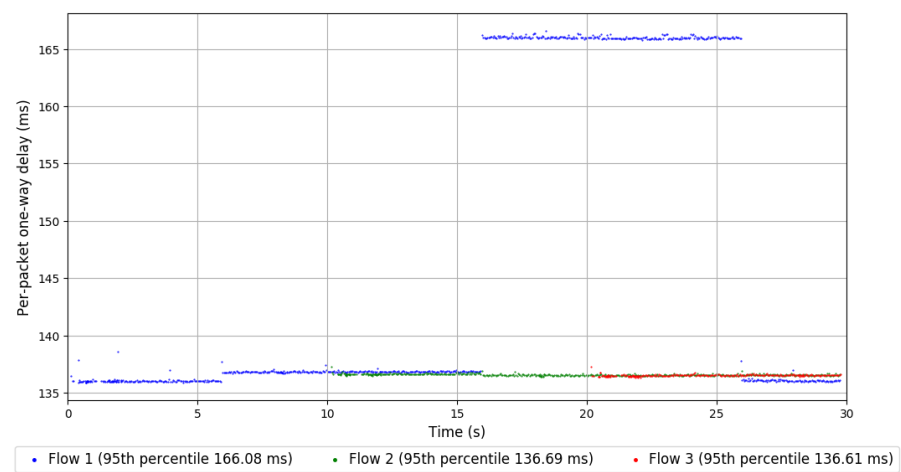
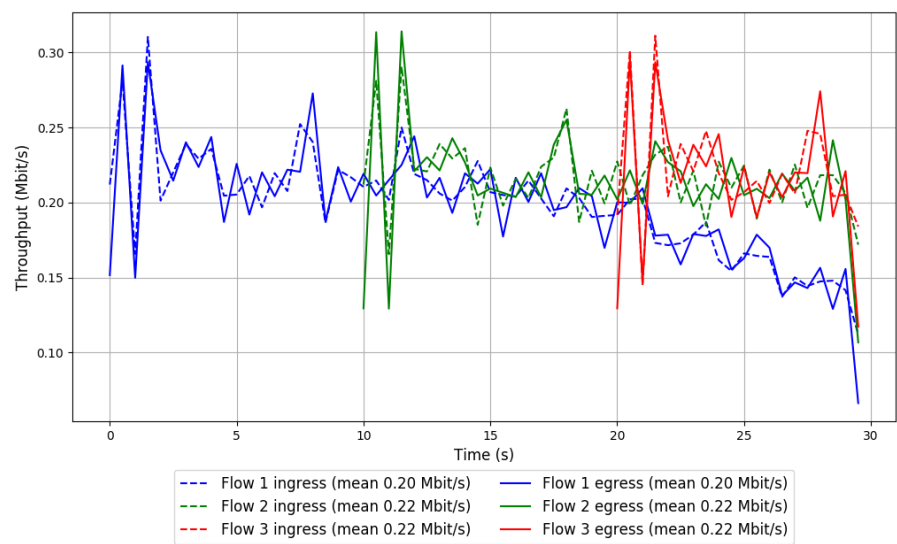


```
Run 5: Statistics of SReAM

Start at: 2017-12-01 09:51:52
End at: 2017-12-01 09:52:22

# Below is generated by plot.py at 2017-12-01 13:49:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.42 Mbit/s
95th percentile per-packet one-way delay: 166.011 ms
Loss rate: 1.28%
-- Flow 1:
Average throughput: 0.20 Mbit/s
95th percentile per-packet one-way delay: 166.082 ms
Loss rate: 0.67%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.695 ms
Loss rate: 1.42%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.606 ms
Loss rate: 2.64%
```

Run 5: Report of SCRaM — Data Link



Run 6: Statistics of SReAM

Start at: 2017-12-01 10:05:09

End at: 2017-12-01 10:05:39

Below is generated by plot.py at 2017-12-01 13:49:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 136.893 ms

Loss rate: 1.37%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.447 ms

Loss rate: 0.90%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.946 ms

Loss rate: 1.42%

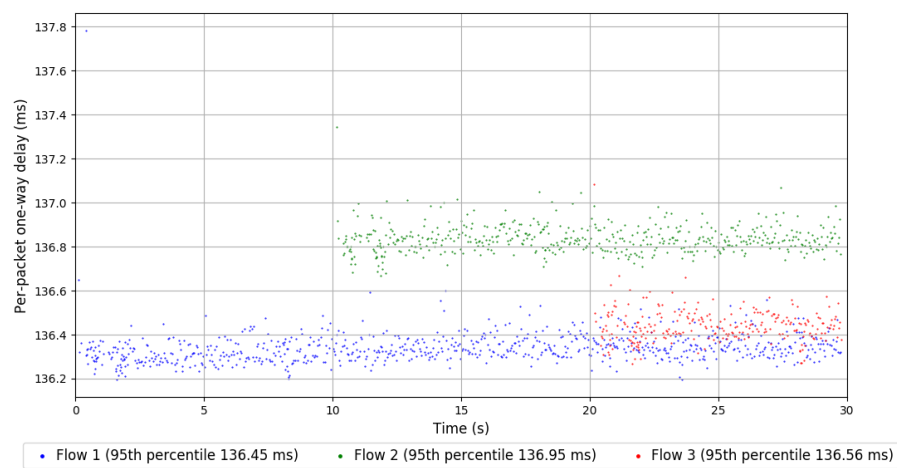
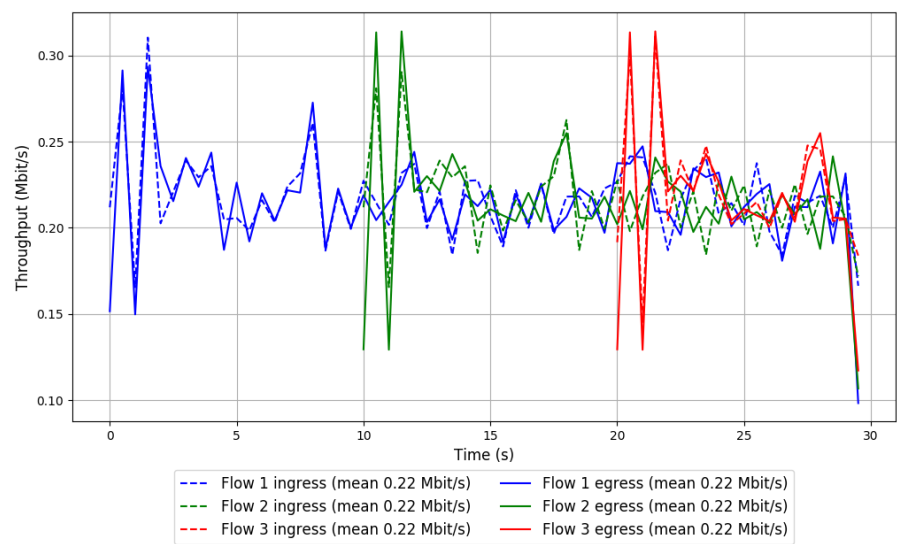
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.555 ms

Loss rate: 2.63%

Run 6: Report of SReAM — Data Link

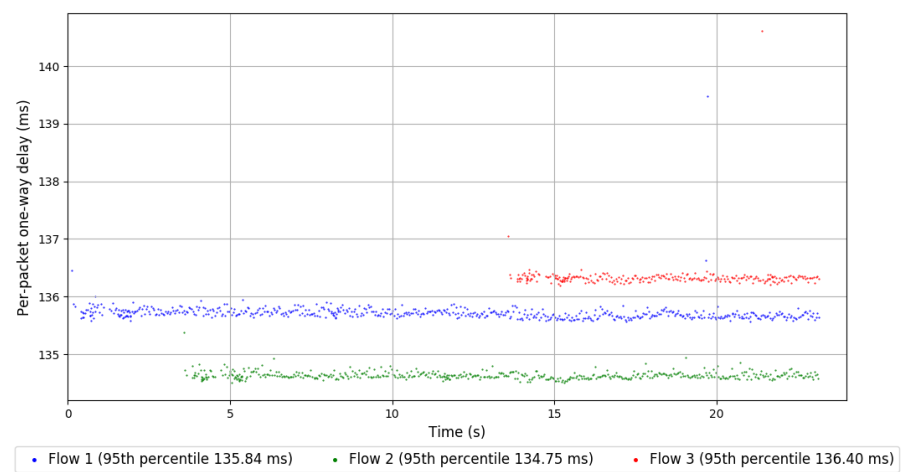
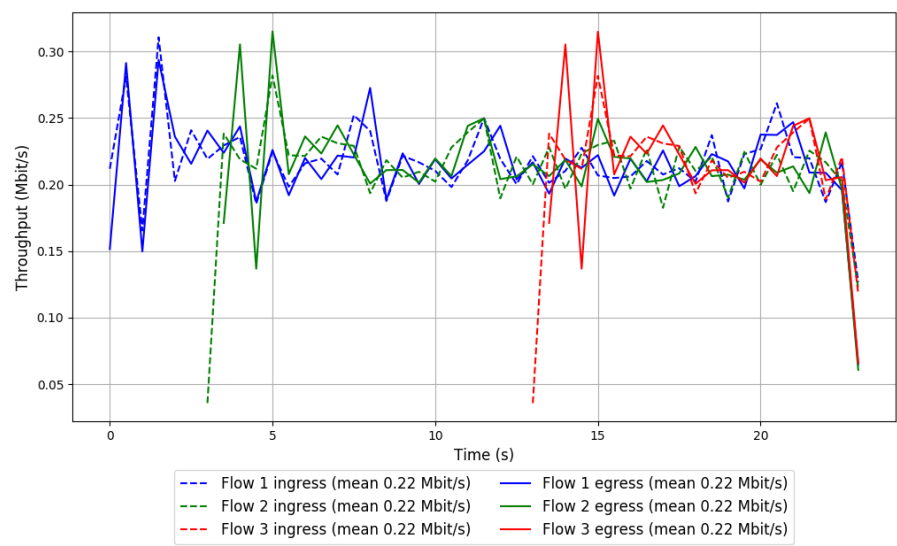


Run 7: Statistics of SReAM

Start at: 2017-12-01 10:18:36

End at: 2017-12-01 10:19:06

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2017-12-01 10:31:57

End at: 2017-12-01 10:32:27

Below is generated by plot.py at 2017-12-01 13:49:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.39 Mbit/s

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

Loss rate: 1.32%

-- Flow 1:

Average throughput: 0.17 Mbit/s

95th percentile per-packet one-way delay: 165.990 ms

Loss rate: 0.67%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.813 ms

Loss rate: 1.42%

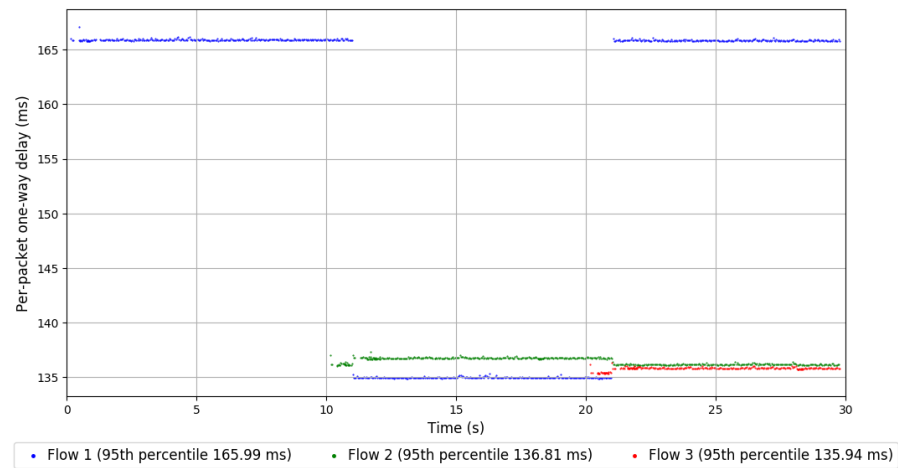
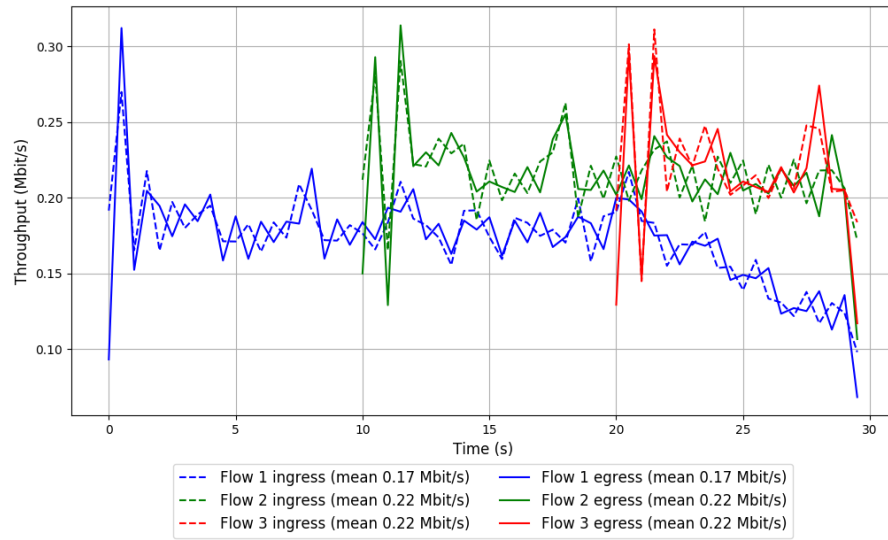
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 135.944 ms

Loss rate: 2.63%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SReAM

Start at: 2017-12-01 10:45:02

End at: 2017-12-01 10:45:32

Below is generated by plot.py at 2017-12-01 13:49:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 166.311 ms

Loss rate: 1.57%

-- Flow 1:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 166.335 ms

Loss rate: 1.28%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.581 ms

Loss rate: 1.42%

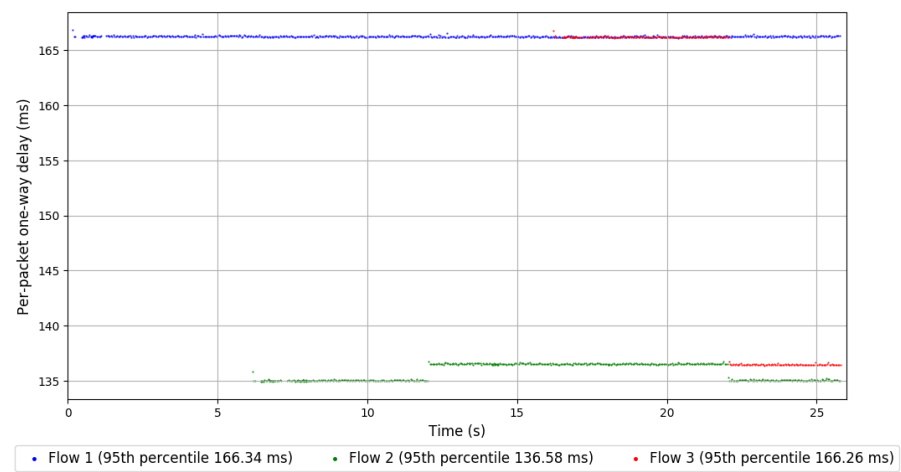
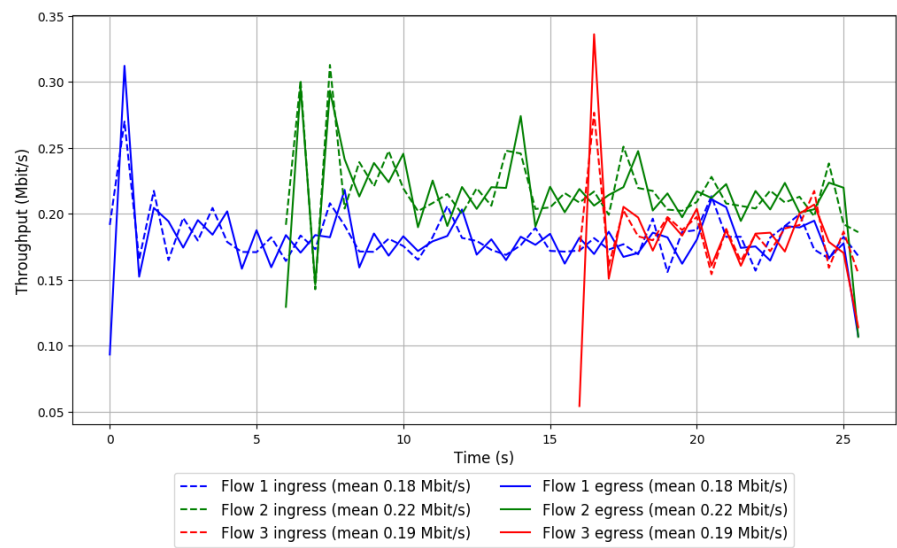
-- Flow 3:

Average throughput: 0.19 Mbit/s

95th percentile per-packet one-way delay: 166.258 ms

Loss rate: 2.63%

Run 9: Report of SReAM — Data Link

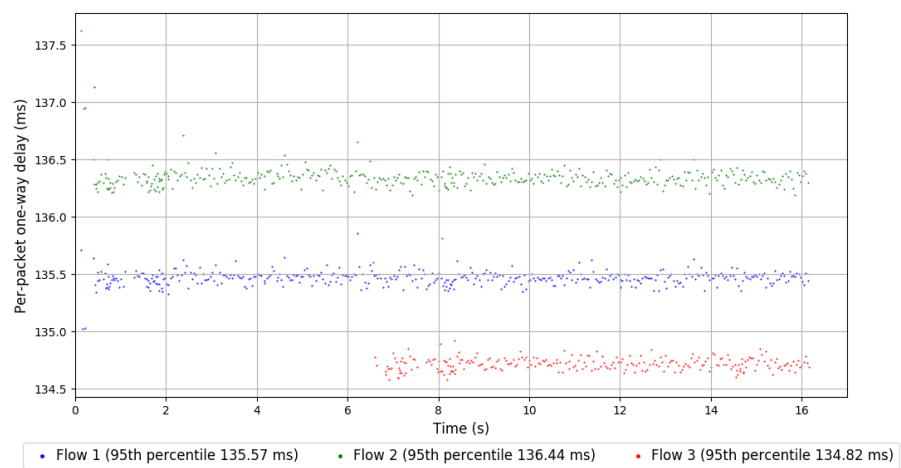
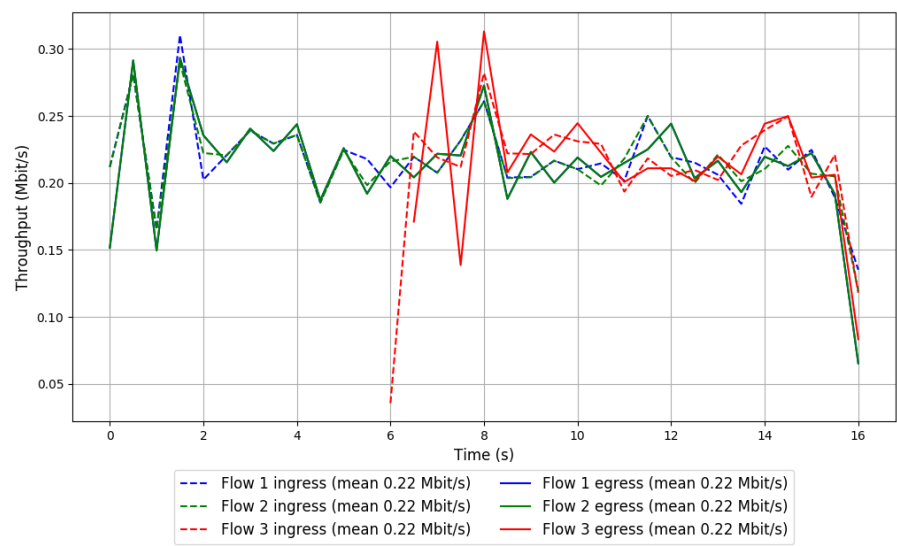


Run 10: Statistics of SCReAM

Start at: 2017-12-01 10:58:54

End at: 2017-12-01 10:59:24

Run 10: Report of SReAM — Data Link

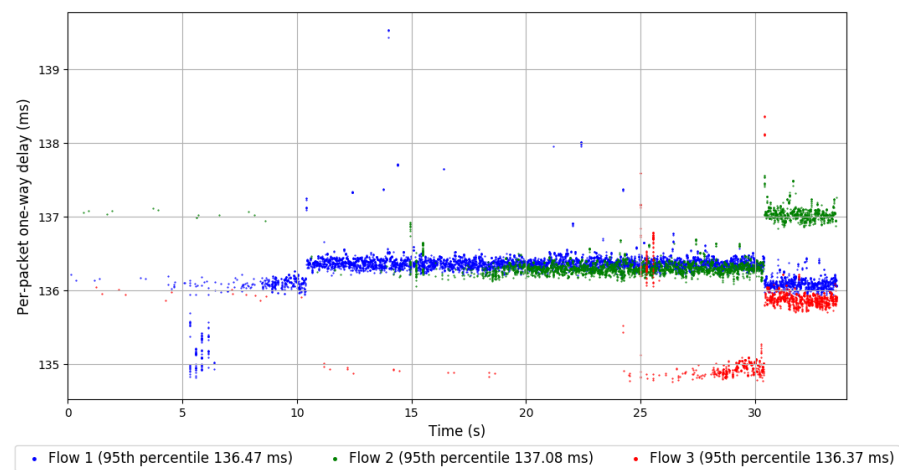
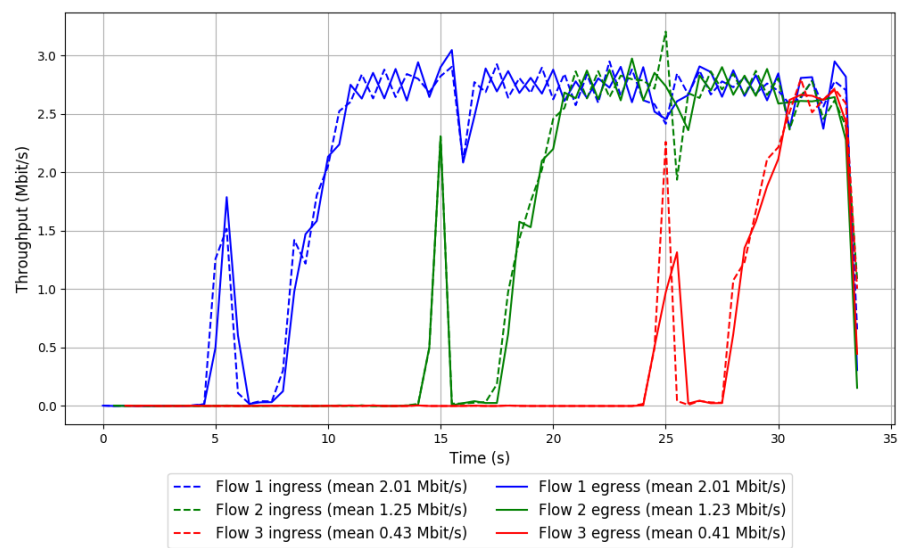


```
Run 1: Statistics of WebRTC media

Start at: 2017-12-01 08:51:01
End at: 2017-12-01 08:51:31

# Below is generated by plot.py at 2017-12-01 13:49:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.62 Mbit/s
95th percentile per-packet one-way delay: 137.002 ms
Loss rate: 1.63%
-- Flow 1:
Average throughput: 2.01 Mbit/s
95th percentile per-packet one-way delay: 136.469 ms
Loss rate: 0.67%
-- Flow 2:
Average throughput: 1.23 Mbit/s
95th percentile per-packet one-way delay: 137.076 ms
Loss rate: 2.06%
-- Flow 3:
Average throughput: 0.41 Mbit/s
95th percentile per-packet one-way delay: 136.365 ms
Loss rate: 4.95%
```


Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2017-12-01 09:04:41

End at: 2017-12-01 09:05:11

Below is generated by plot.py at 2017-12-01 13:49:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.16 Mbit/s

95th percentile per-packet one-way delay: 136.499 ms

Loss rate: 1.75%

-- Flow 1:

Average throughput: 2.22 Mbit/s

95th percentile per-packet one-way delay: 136.444 ms

Loss rate: 1.22%

-- Flow 2:

Average throughput: 1.47 Mbit/s

95th percentile per-packet one-way delay: 136.545 ms

Loss rate: 1.49%

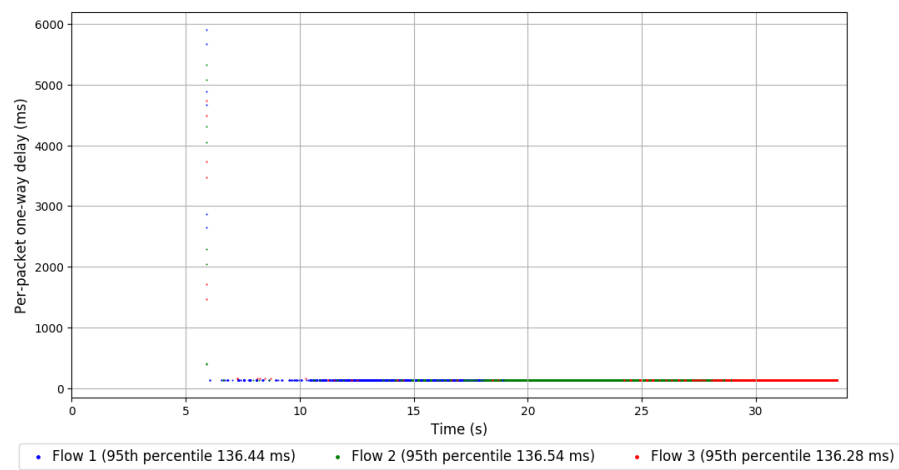
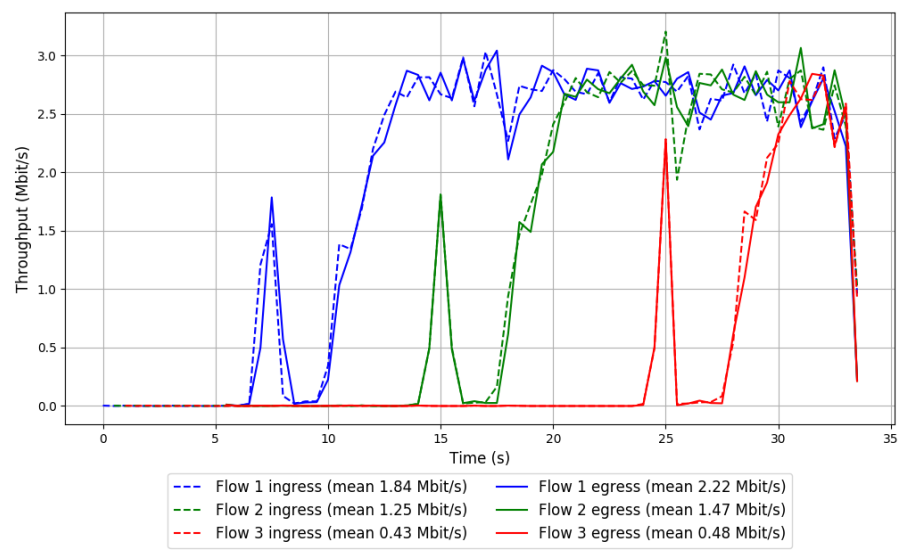
-- Flow 3:

Average throughput: 0.48 Mbit/s

95th percentile per-packet one-way delay: 136.279 ms

Loss rate: 4.90%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2017-12-01 09:18:41

End at: 2017-12-01 09:19:11

Below is generated by plot.py at 2017-12-01 13:49:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.55 Mbit/s

95th percentile per-packet one-way delay: 163.899 ms

Loss rate: 1.65%

-- Flow 1:

Average throughput: 1.98 Mbit/s

95th percentile per-packet one-way delay: 163.946 ms

Loss rate: 0.91%

-- Flow 2:

Average throughput: 1.21 Mbit/s

95th percentile per-packet one-way delay: 161.687 ms

Loss rate: 1.80%

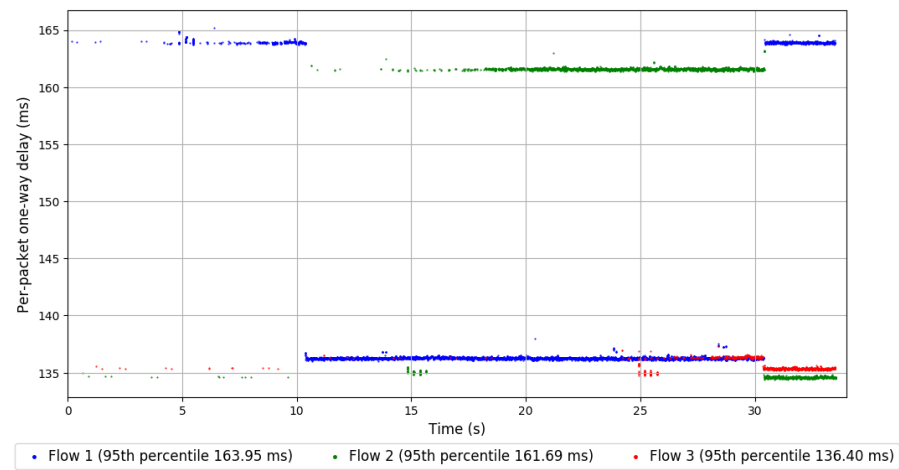
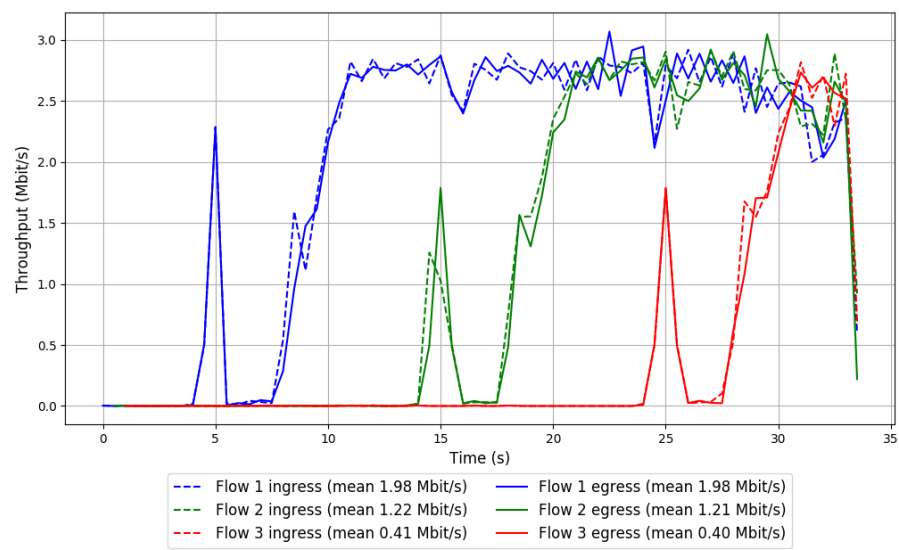
-- Flow 3:

Average throughput: 0.40 Mbit/s

95th percentile per-packet one-way delay: 136.403 ms

Loss rate: 4.85%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2017-12-01 09:32:22

End at: 2017-12-01 09:32:52

Below is generated by plot.py at 2017-12-01 13:49:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.94 Mbit/s

95th percentile per-packet one-way delay: 136.537 ms

Loss rate: 1.70%

-- Flow 1:

Average throughput: 2.21 Mbit/s

95th percentile per-packet one-way delay: 136.539 ms

Loss rate: 0.98%

-- Flow 2:

Average throughput: 1.31 Mbit/s

95th percentile per-packet one-way delay: 136.571 ms

Loss rate: 1.62%

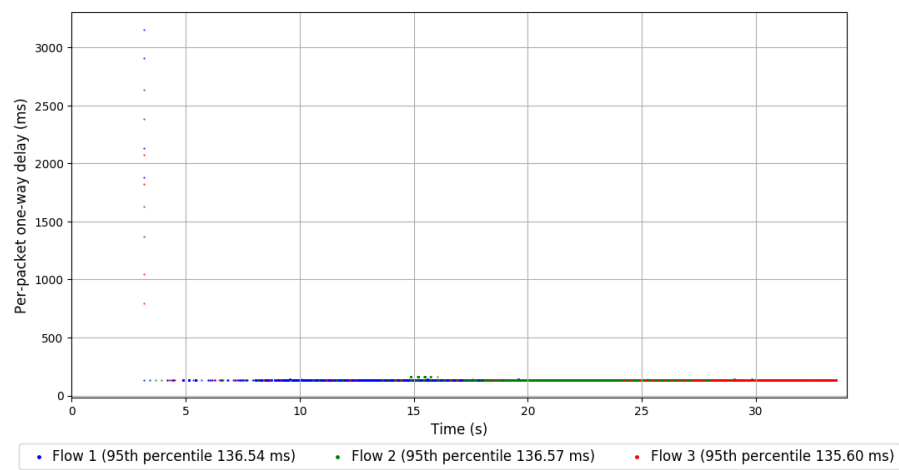
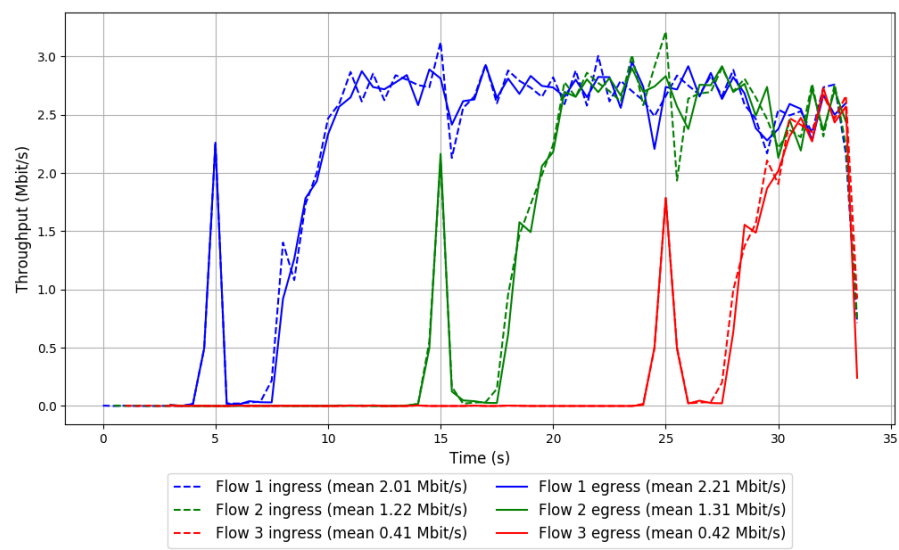
-- Flow 3:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 135.599 ms

Loss rate: 5.51%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2017-12-01 09:46:14

End at: 2017-12-01 09:46:44

Below is generated by plot.py at 2017-12-01 13:49:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.84 Mbit/s

95th percentile per-packet one-way delay: 166.087 ms

Loss rate: 1.89%

-- Flow 1:

Average throughput: 2.21 Mbit/s

95th percentile per-packet one-way delay: 166.109 ms

Loss rate: 0.89%

-- Flow 2:

Average throughput: 1.23 Mbit/s

95th percentile per-packet one-way delay: 162.175 ms

Loss rate: 1.90%

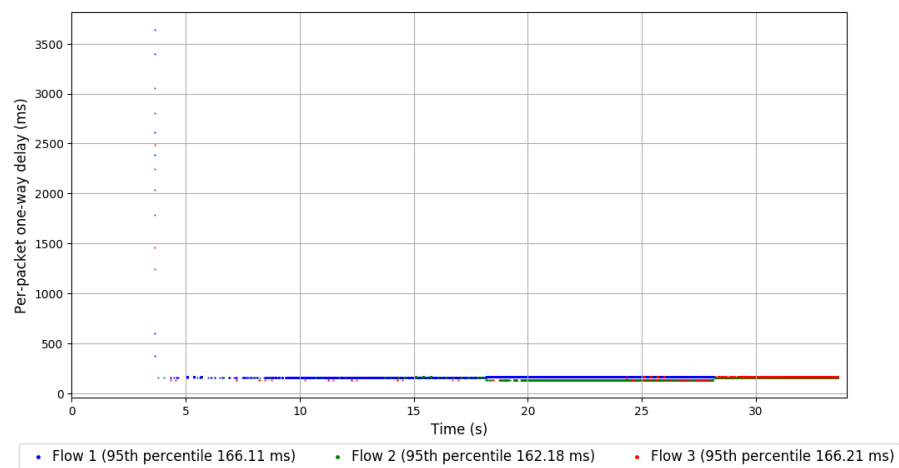
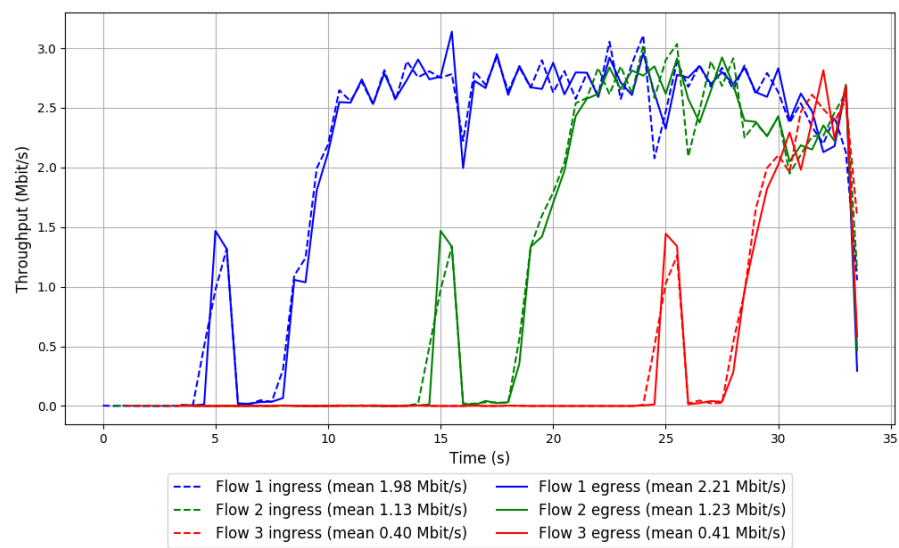
-- Flow 3:

Average throughput: 0.41 Mbit/s

95th percentile per-packet one-way delay: 166.213 ms

Loss rate: 6.92%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2017-12-01 09:59:31

End at: 2017-12-01 10:00:01

Below is generated by plot.py at 2017-12-01 13:49:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.46 Mbit/s

95th percentile per-packet one-way delay: 166.000 ms

Loss rate: 1.79%

-- Flow 1:

Average throughput: 1.98 Mbit/s

95th percentile per-packet one-way delay: 136.564 ms

Loss rate: 1.01%

-- Flow 2:

Average throughput: 1.17 Mbit/s

95th percentile per-packet one-way delay: 166.076 ms

Loss rate: 1.86%

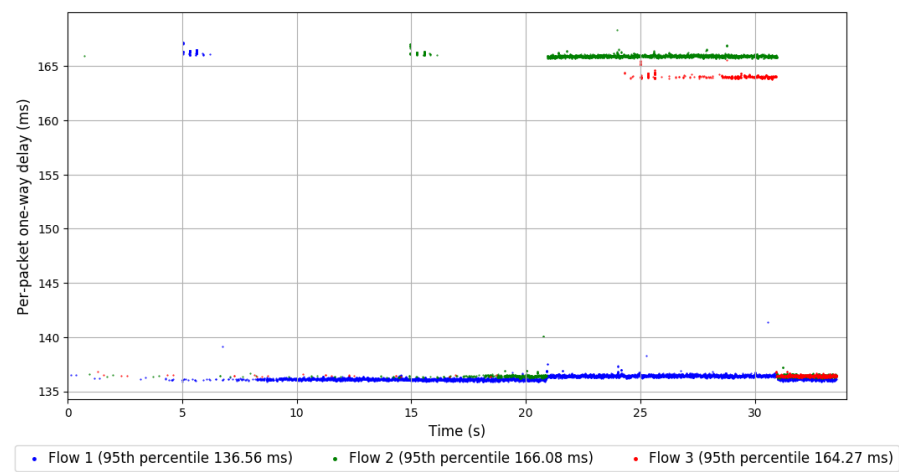
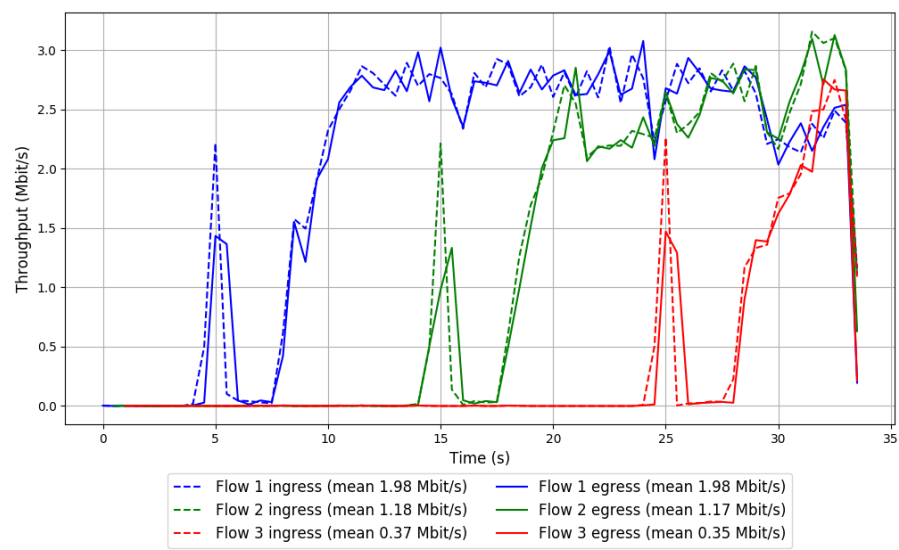
-- Flow 3:

Average throughput: 0.35 Mbit/s

95th percentile per-packet one-way delay: 164.270 ms

Loss rate: 5.98%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2017-12-01 10:12:49

End at: 2017-12-01 10:13:19

Below is generated by plot.py at 2017-12-01 13:49:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.54 Mbit/s

95th percentile per-packet one-way delay: 136.472 ms

Loss rate: 1.79%

-- Flow 1:

Average throughput: 2.01 Mbit/s

95th percentile per-packet one-way delay: 136.116 ms

Loss rate: 1.03%

-- Flow 2:

Average throughput: 1.19 Mbit/s

95th percentile per-packet one-way delay: 136.575 ms

Loss rate: 1.84%

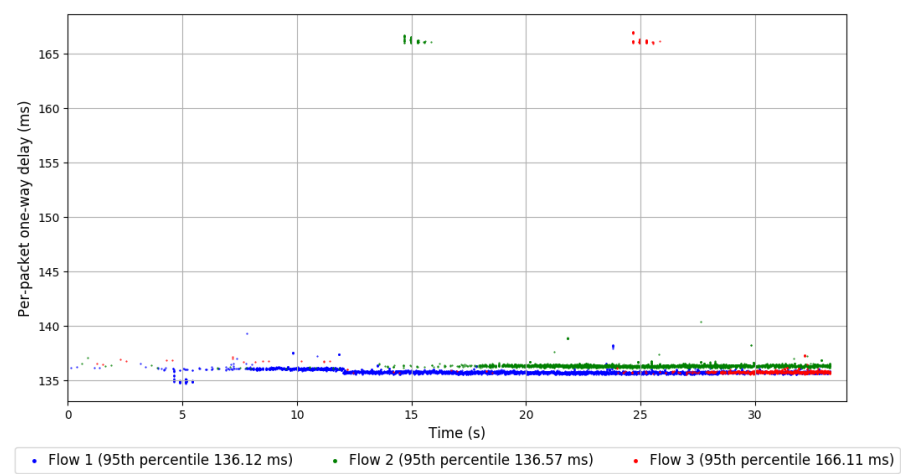
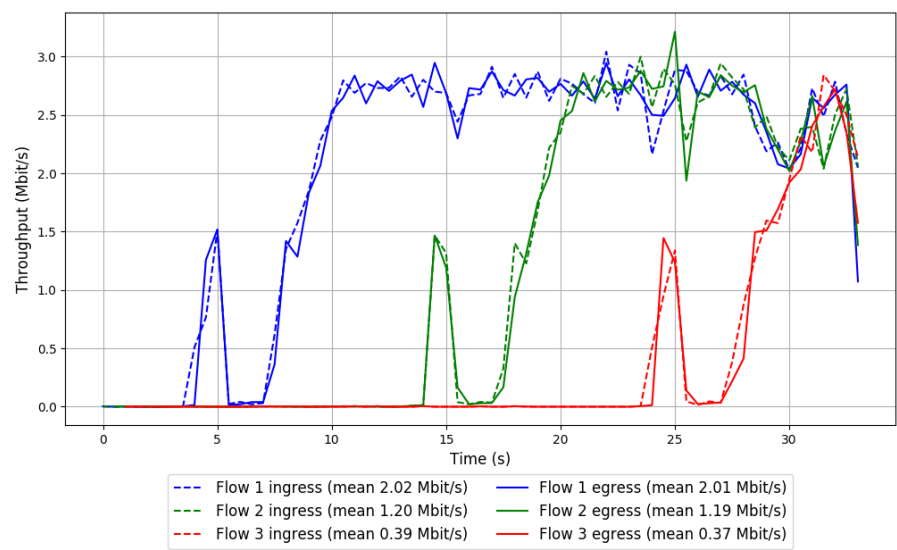
-- Flow 3:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 166.111 ms

Loss rate: 5.65%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2017-12-01 10:26:20

End at: 2017-12-01 10:26:50

Below is generated by plot.py at 2017-12-01 13:49:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.57 Mbit/s

95th percentile per-packet one-way delay: 136.556 ms

Loss rate: 1.86%

-- Flow 1:

Average throughput: 1.99 Mbit/s

95th percentile per-packet one-way delay: 135.503 ms

Loss rate: 0.98%

-- Flow 2:

Average throughput: 1.22 Mbit/s

95th percentile per-packet one-way delay: 136.578 ms

Loss rate: 2.02%

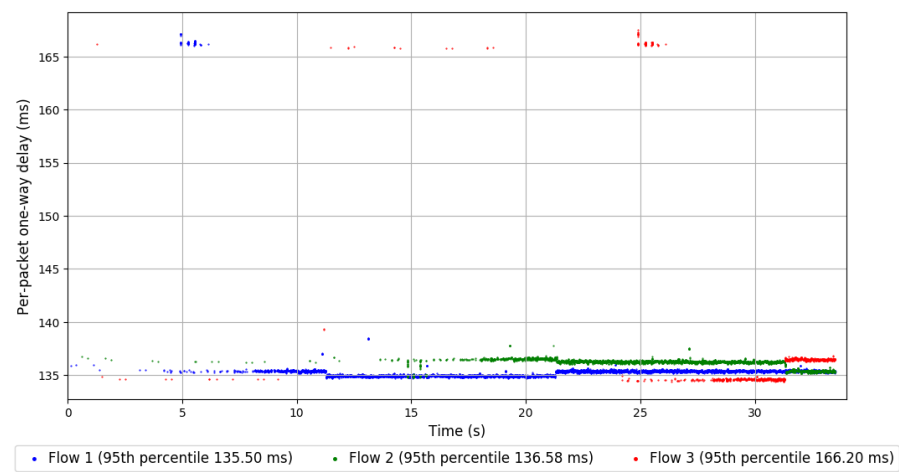
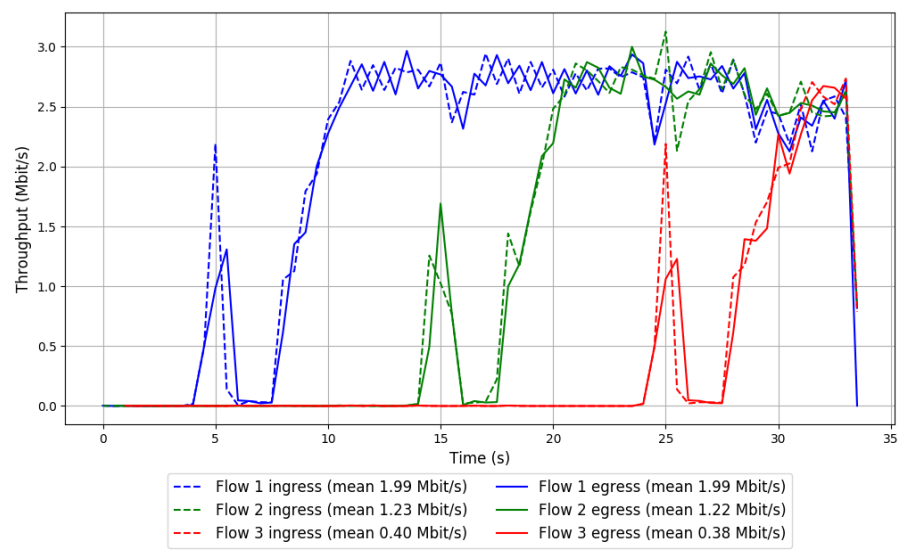
-- Flow 3:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 166.203 ms

Loss rate: 5.82%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2017-12-01 10:39:26

End at: 2017-12-01 10:39:56

Below is generated by plot.py at 2017-12-01 13:49:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.53 Mbit/s

95th percentile per-packet one-way delay: 136.847 ms

Loss rate: 1.62%

-- Flow 1:

Average throughput: 2.00 Mbit/s

95th percentile per-packet one-way delay: 136.854 ms

Loss rate: 0.84%

-- Flow 2:

Average throughput: 1.20 Mbit/s

95th percentile per-packet one-way delay: 134.792 ms

Loss rate: 1.86%

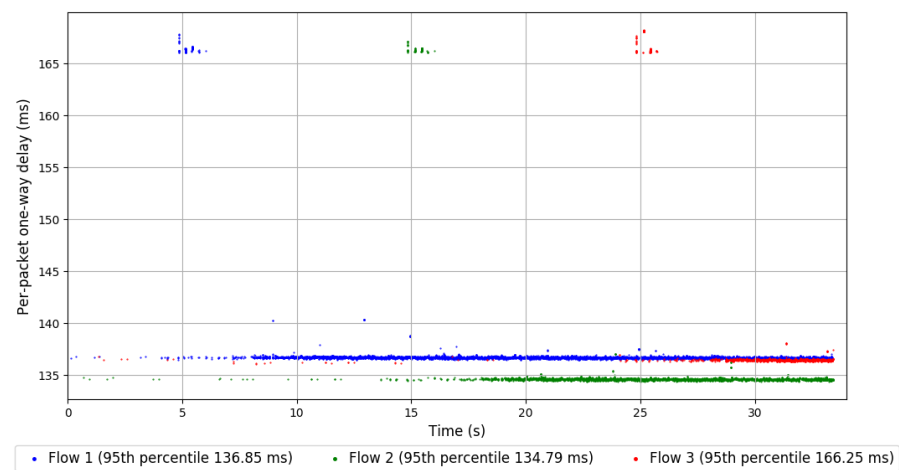
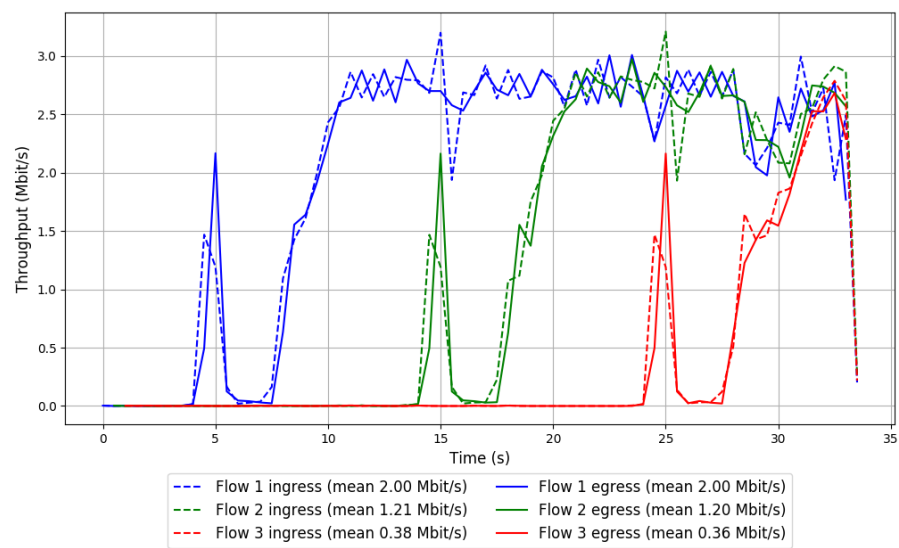
-- Flow 3:

Average throughput: 0.36 Mbit/s

95th percentile per-packet one-way delay: 166.252 ms

Loss rate: 5.09%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2017-12-01 10:53:17

End at: 2017-12-01 10:53:47

Below is generated by plot.py at 2017-12-01 13:49:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.50 Mbit/s

95th percentile per-packet one-way delay: 136.661 ms

Loss rate: 1.72%

-- Flow 1:

Average throughput: 1.98 Mbit/s

95th percentile per-packet one-way delay: 136.671 ms

Loss rate: 0.80%

-- Flow 2:

Average throughput: 1.19 Mbit/s

95th percentile per-packet one-way delay: 135.556 ms

Loss rate: 2.25%

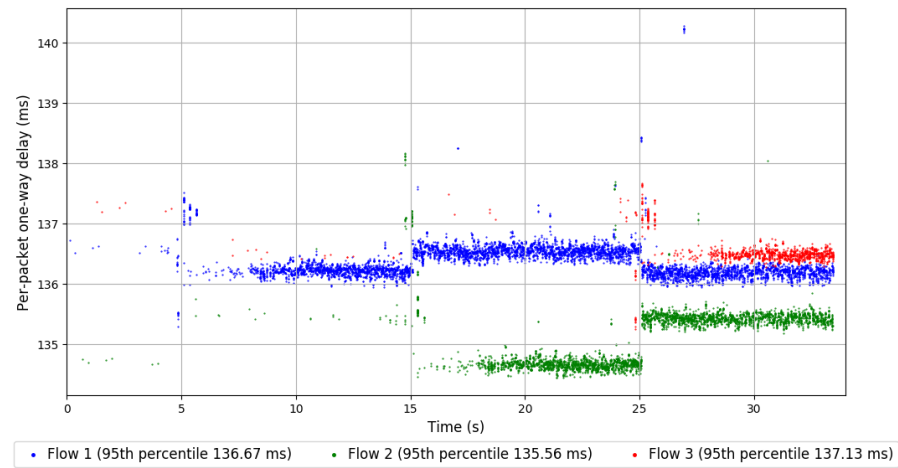
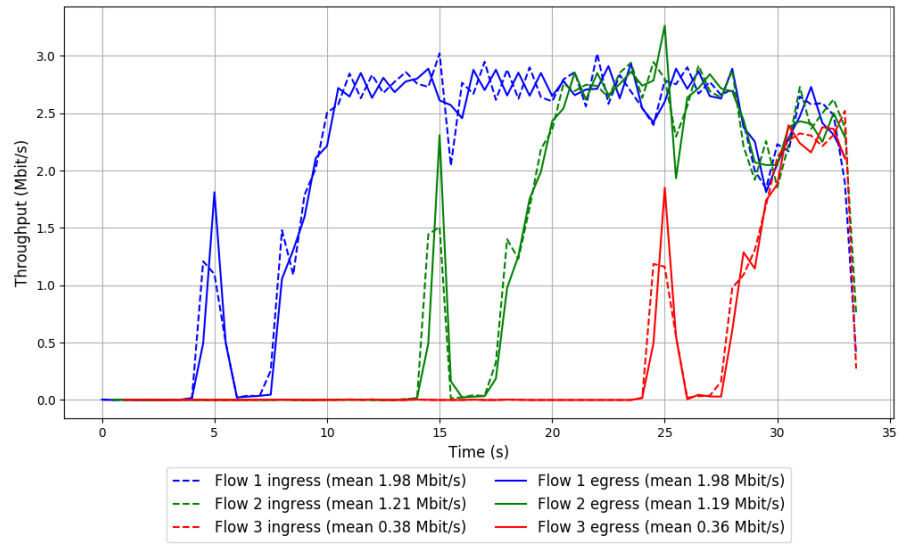
-- Flow 3:

Average throughput: 0.36 Mbit/s

95th percentile per-packet one-way delay: 137.134 ms

Loss rate: 5.01%

Run 10: Report of WebRTC media — Data Link

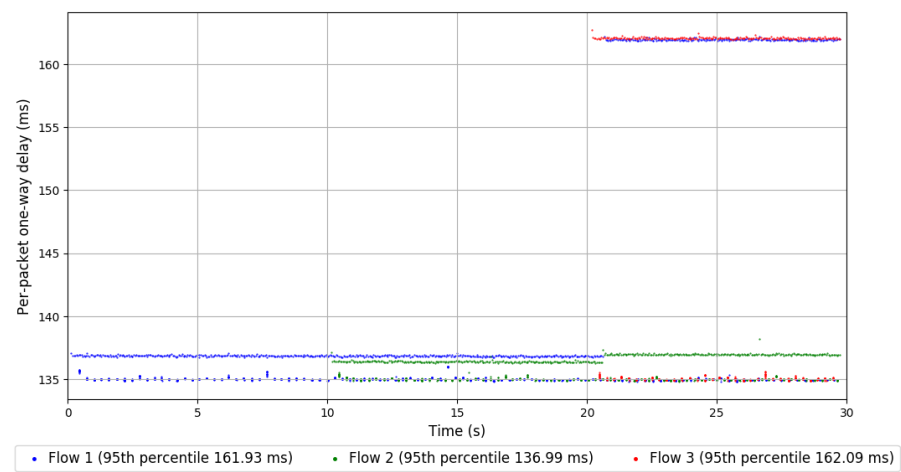
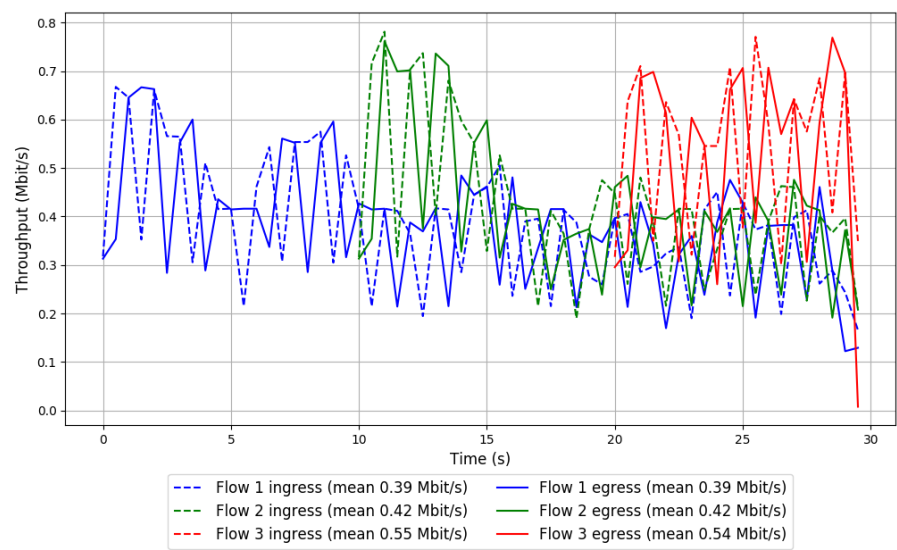


```
Run 1: Statistics of Sprout

Start at: 2017-12-01 09:00:17
End at: 2017-12-01 09:00:47

# Below is generated by plot.py at 2017-12-01 13:49:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.84 Mbit/s
95th percentile per-packet one-way delay: 162.010 ms
Loss rate: 1.42%
-- Flow 1:
Average throughput: 0.39 Mbit/s
95th percentile per-packet one-way delay: 161.928 ms
Loss rate: 0.70%
-- Flow 2:
Average throughput: 0.42 Mbit/s
95th percentile per-packet one-way delay: 136.991 ms
Loss rate: 1.25%
-- Flow 3:
Average throughput: 0.54 Mbit/s
95th percentile per-packet one-way delay: 162.092 ms
Loss rate: 3.23%
```

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2017-12-01 09:14:29

End at: 2017-12-01 09:14:59

Below is generated by plot.py at 2017-12-01 13:49:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.81 Mbit/s

95th percentile per-packet one-way delay: 137.119 ms

Loss rate: 1.37%

-- Flow 1:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 137.121 ms

Loss rate: 1.12%

-- Flow 2:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 137.103 ms

Loss rate: 1.22%

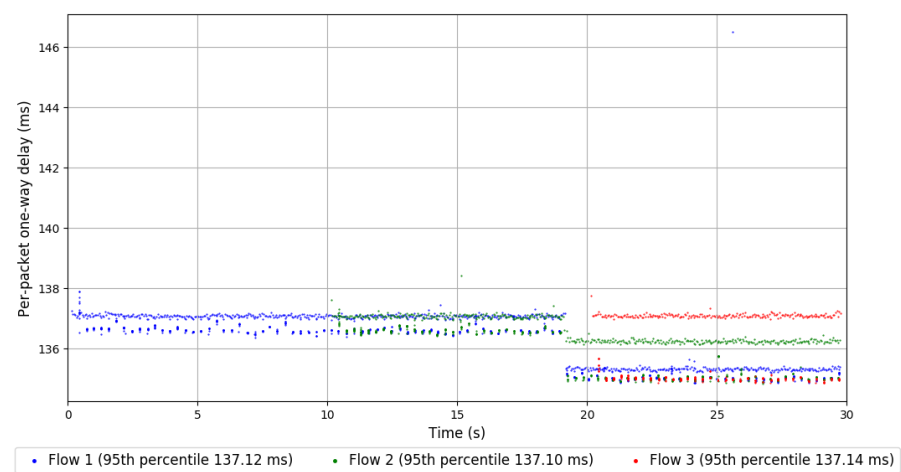
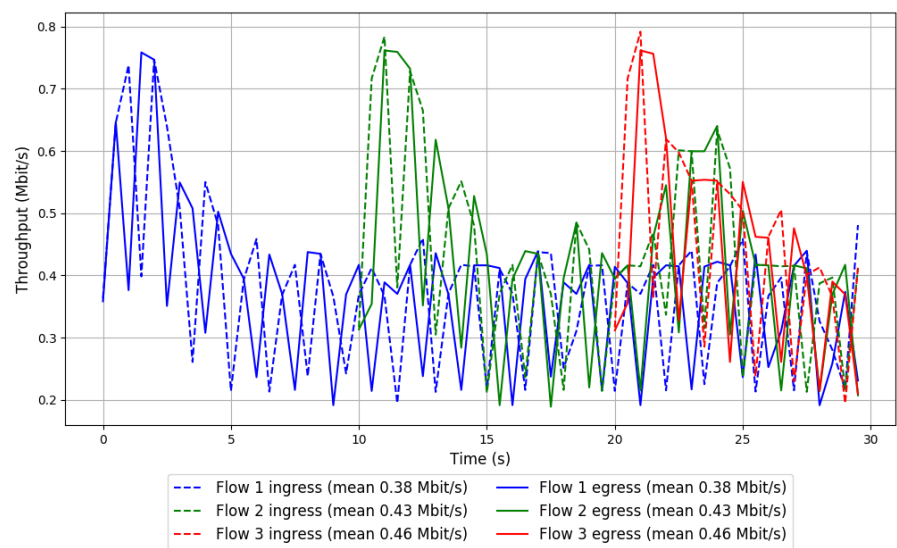
-- Flow 3:

Average throughput: 0.46 Mbit/s

95th percentile per-packet one-way delay: 137.137 ms

Loss rate: 2.29%

Run 2: Report of Sprout — Data Link

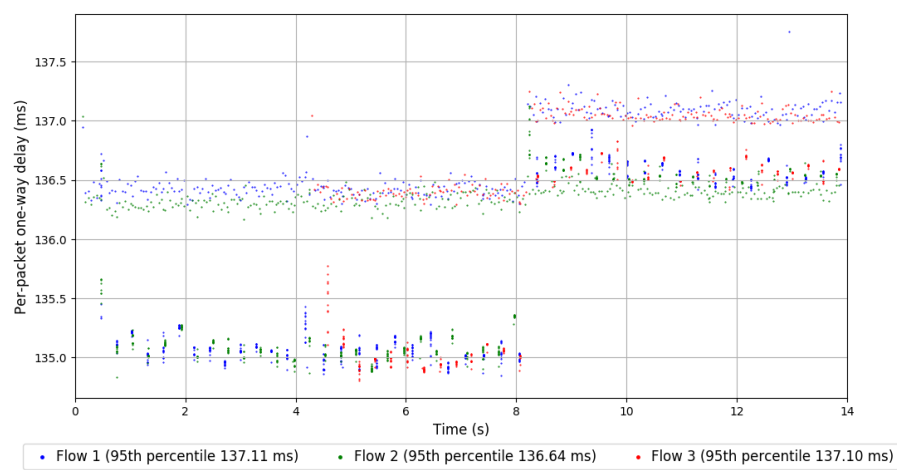
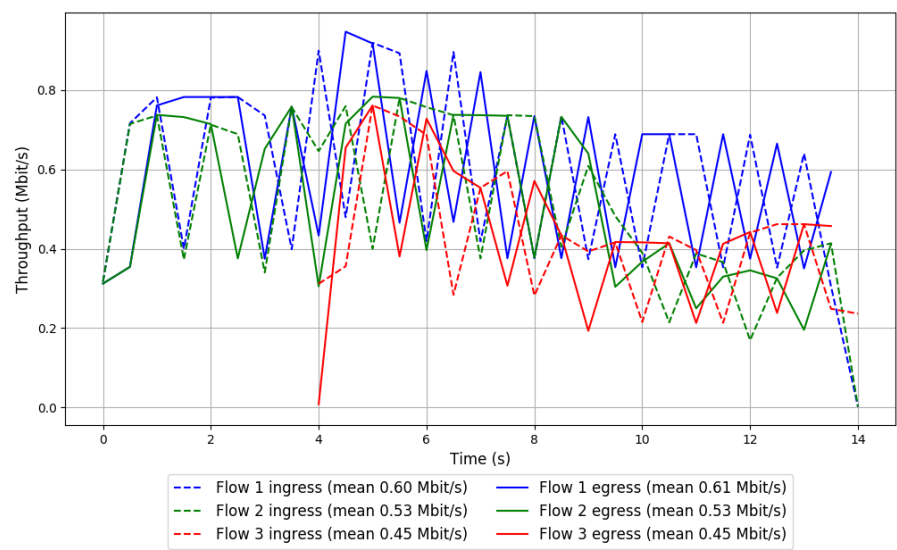


Run 3: Statistics of Sprout

Start at: 2017-12-01 09:27:54

End at: 2017-12-01 09:28:24

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2017-12-01 09:41:54

End at: 2017-12-01 09:42:24

Below is generated by plot.py at 2017-12-01 13:49:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.49 Mbit/s

95th percentile per-packet one-way delay: 164.213 ms

Loss rate: 0.44%

-- Flow 1:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 164.296 ms

Loss rate: 0.33%

-- Flow 2:

Average throughput: 0.11 Mbit/s

95th percentile per-packet one-way delay: 164.171 ms

Loss rate: 1.09%

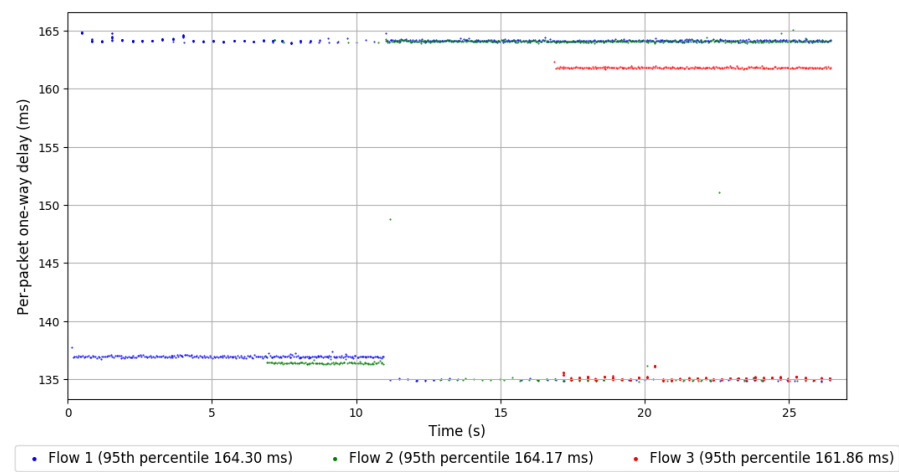
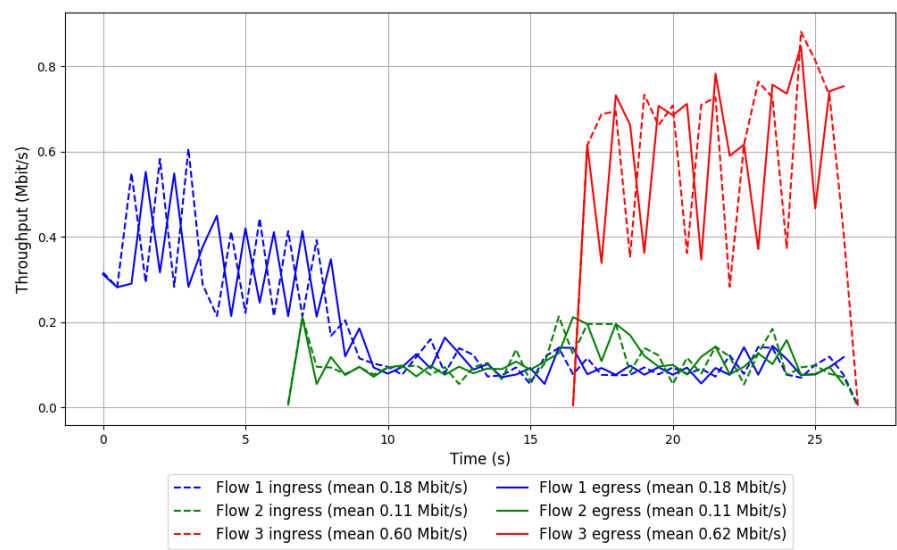
-- Flow 3:

Average throughput: 0.62 Mbit/s

95th percentile per-packet one-way delay: 161.861 ms

Loss rate: 0.28%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2017-12-01 09:55:29

End at: 2017-12-01 09:55:59

Below is generated by plot.py at 2017-12-01 13:49:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.59 Mbit/s

95th percentile per-packet one-way delay: 165.911 ms

Loss rate: 1.31%

-- Flow 1:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 165.936 ms

Loss rate: 1.11%

-- Flow 2:

Average throughput: 0.15 Mbit/s

95th percentile per-packet one-way delay: 164.196 ms

Loss rate: 1.17%

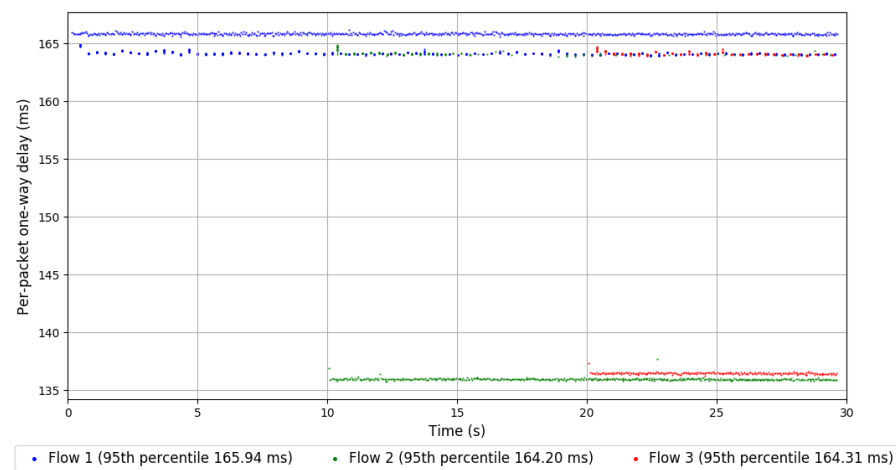
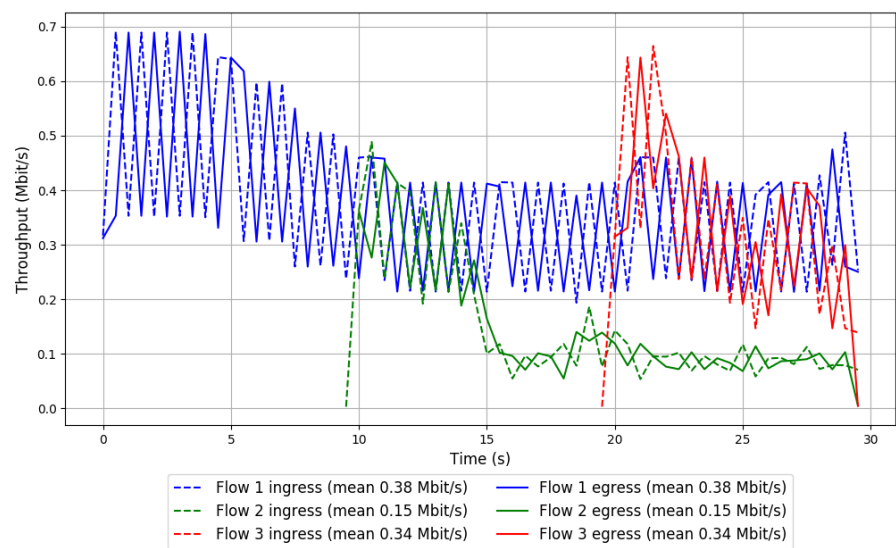
-- Flow 3:

Average throughput: 0.34 Mbit/s

95th percentile per-packet one-way delay: 164.306 ms

Loss rate: 2.09%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2017-12-01 10:08:41

End at: 2017-12-01 10:09:11

Below is generated by plot.py at 2017-12-01 13:49:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.87 Mbit/s

95th percentile per-packet one-way delay: 166.301 ms

Loss rate: 0.50%

-- Flow 1:

Average throughput: 0.45 Mbit/s

95th percentile per-packet one-way delay: 166.343 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 0.36 Mbit/s

95th percentile per-packet one-way delay: 166.290 ms

Loss rate: 1.45%

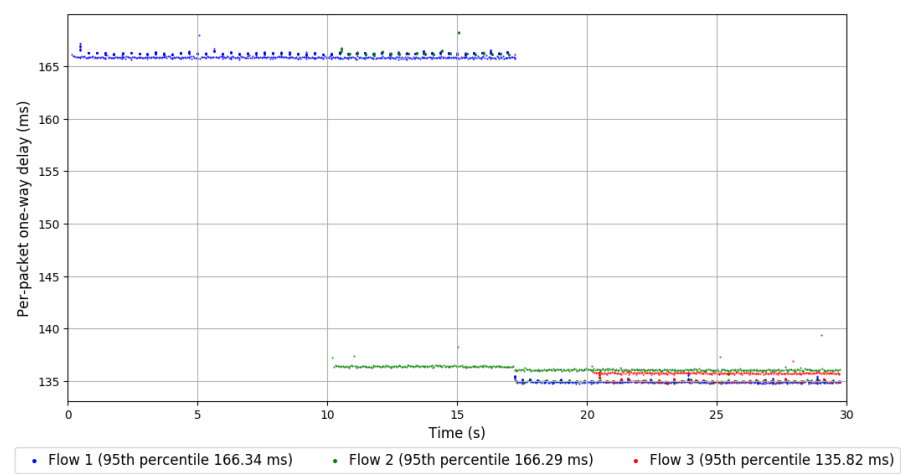
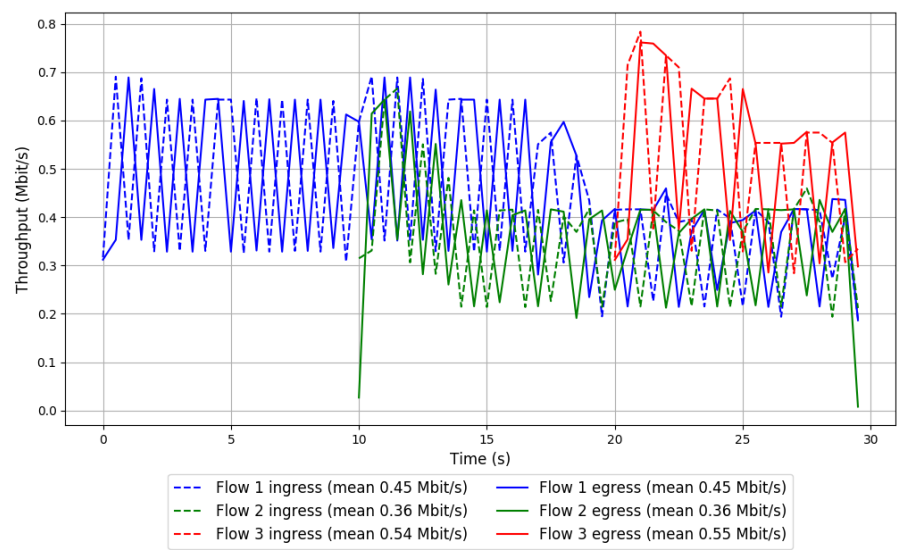
-- Flow 3:

Average throughput: 0.55 Mbit/s

95th percentile per-packet one-way delay: 135.819 ms

Loss rate: 0.39%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2017-12-01 10:22:07

End at: 2017-12-01 10:22:37

Below is generated by plot.py at 2017-12-01 13:49:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.74 Mbit/s

95th percentile per-packet one-way delay: 166.310 ms

Loss rate: 0.92%

-- Flow 1:

Average throughput: 0.35 Mbit/s

95th percentile per-packet one-way delay: 166.275 ms

Loss rate: 0.78%

-- Flow 2:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 166.331 ms

Loss rate: 0.06%

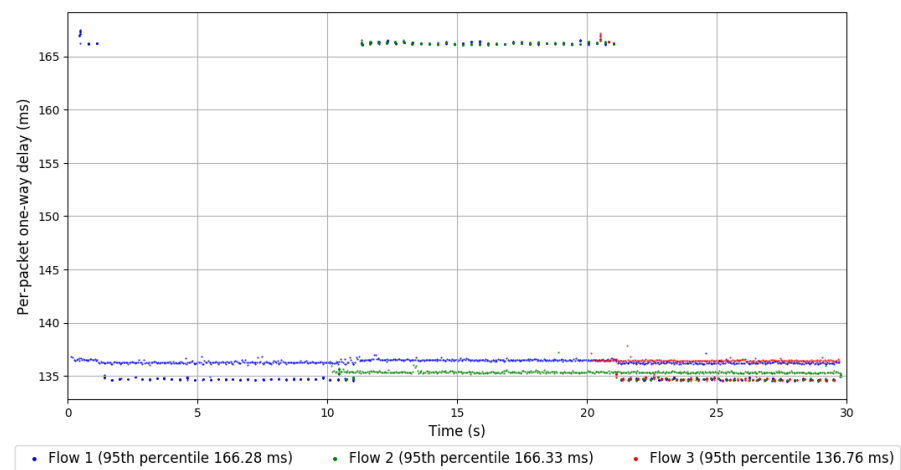
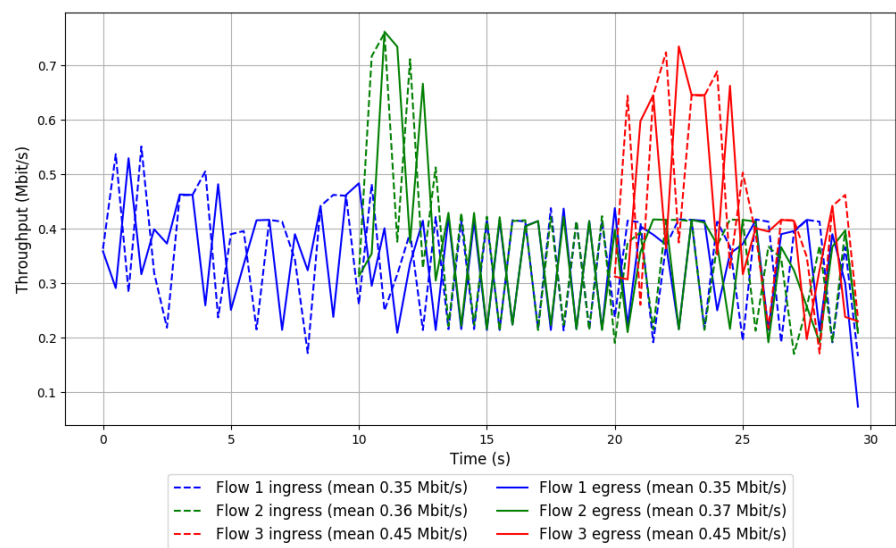
-- Flow 3:

Average throughput: 0.45 Mbit/s

95th percentile per-packet one-way delay: 136.765 ms

Loss rate: 2.61%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2017-12-01 10:35:30

End at: 2017-12-01 10:36:00

Below is generated by plot.py at 2017-12-01 13:49:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.69 Mbit/s

95th percentile per-packet one-way delay: 166.349 ms

Loss rate: 1.36%

-- Flow 1:

Average throughput: 0.34 Mbit/s

95th percentile per-packet one-way delay: 166.327 ms

Loss rate: 0.80%

-- Flow 2:

Average throughput: 0.33 Mbit/s

95th percentile per-packet one-way delay: 166.345 ms

Loss rate: 1.41%

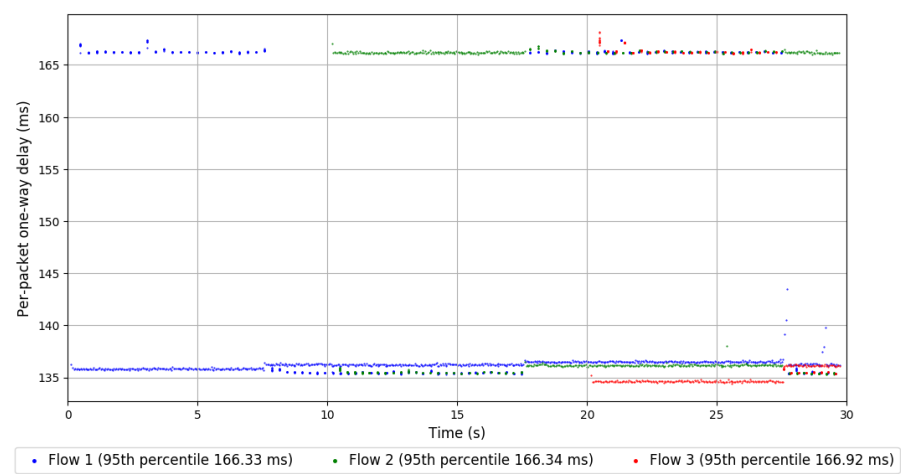
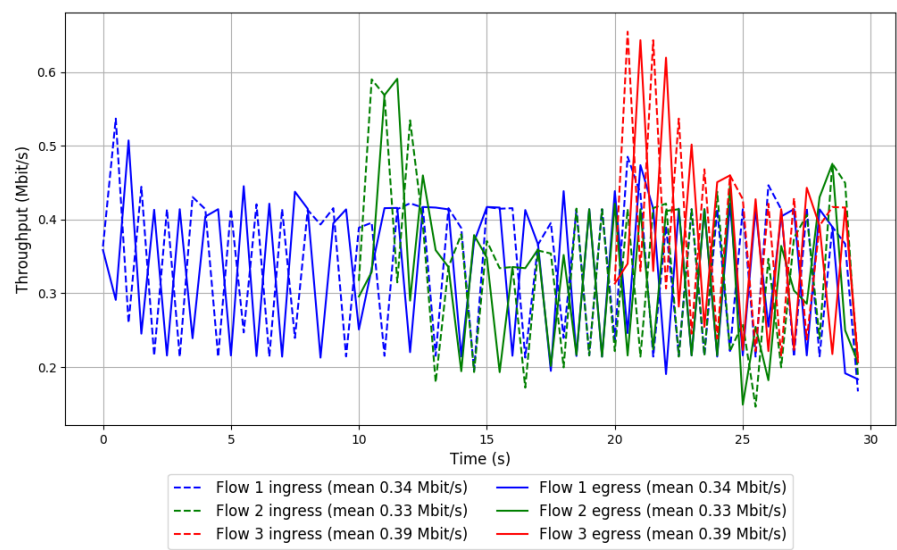
-- Flow 3:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 166.921 ms

Loss rate: 2.75%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2017-12-01 10:48:44

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

Below is generated by plot.py at 2017-12-01 13:49:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.83 Mbit/s

95th percentile per-packet one-way delay: 137.231 ms

Loss rate: 1.53%

-- Flow 1:

Average throughput: 0.45 Mbit/s

95th percentile per-packet one-way delay: 137.263 ms

Loss rate: 1.21%

-- Flow 2:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 137.245 ms

Loss rate: 1.67%

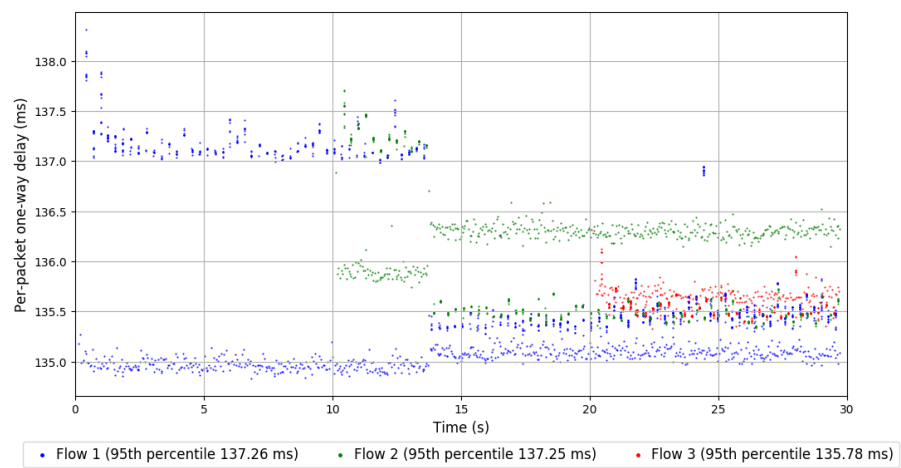
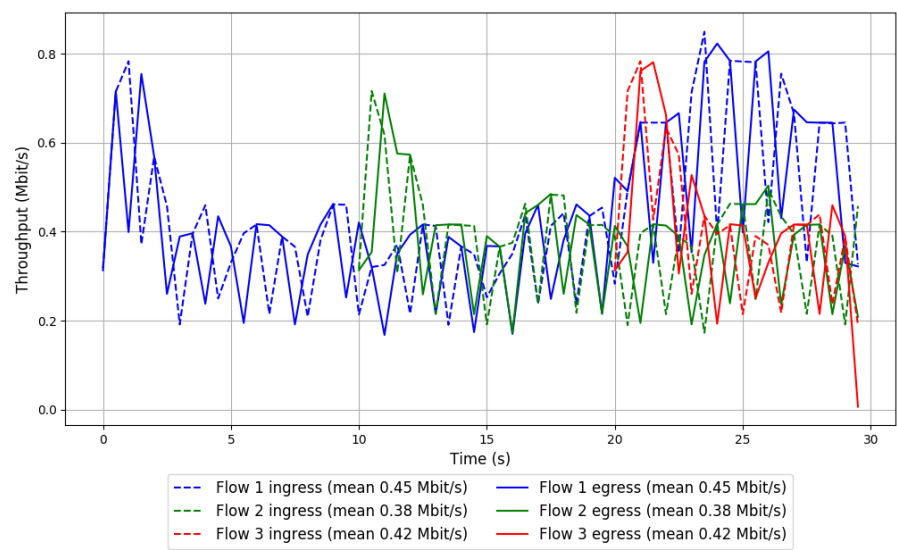
-- Flow 3:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 135.777 ms

Loss rate: 2.28%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2017-12-01 11:02:35

End at: 2017-12-01 11:03:05

Below is generated by plot.py at 2017-12-01 13:49:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.77 Mbit/s

95th percentile per-packet one-way delay: 137.195 ms

Loss rate: 1.29%

-- Flow 1:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 137.168 ms

Loss rate: 0.93%

-- Flow 2:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 137.199 ms

Loss rate: 1.37%

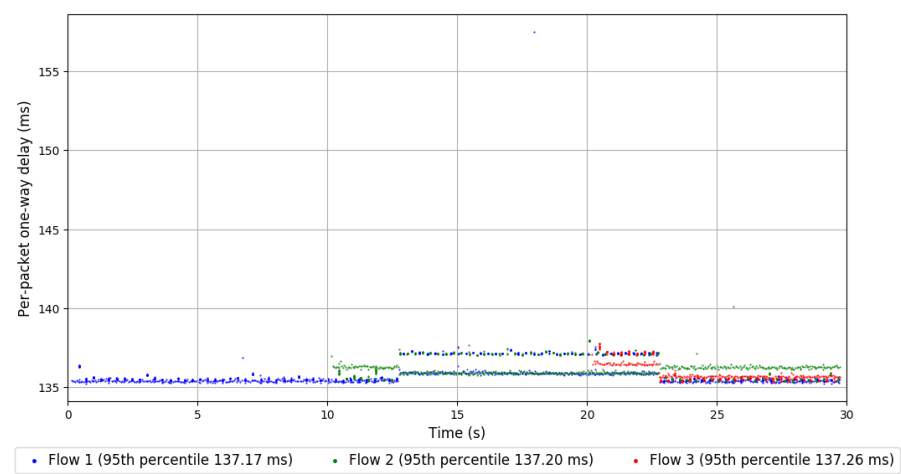
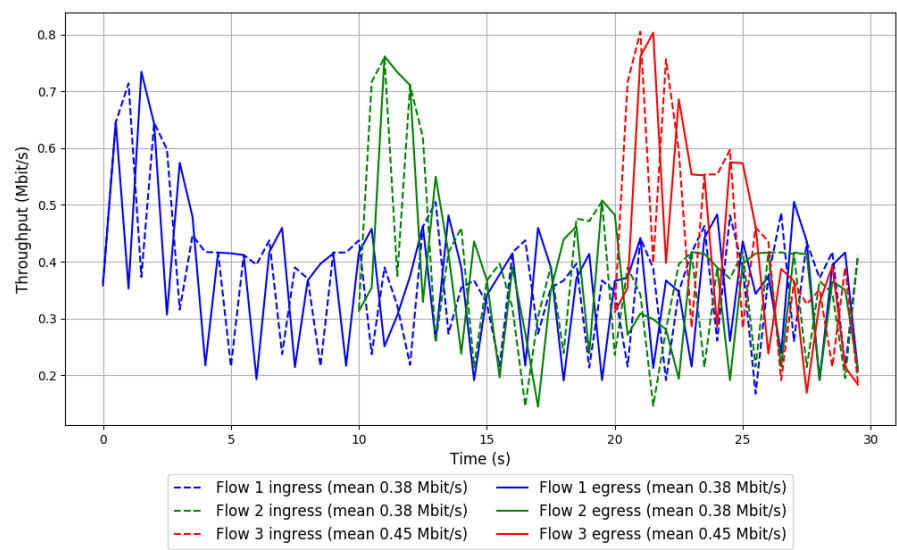
-- Flow 3:

Average throughput: 0.45 Mbit/s

95th percentile per-packet one-way delay: 137.261 ms

Loss rate: 2.09%

Run 10: Report of Sprout — Data Link

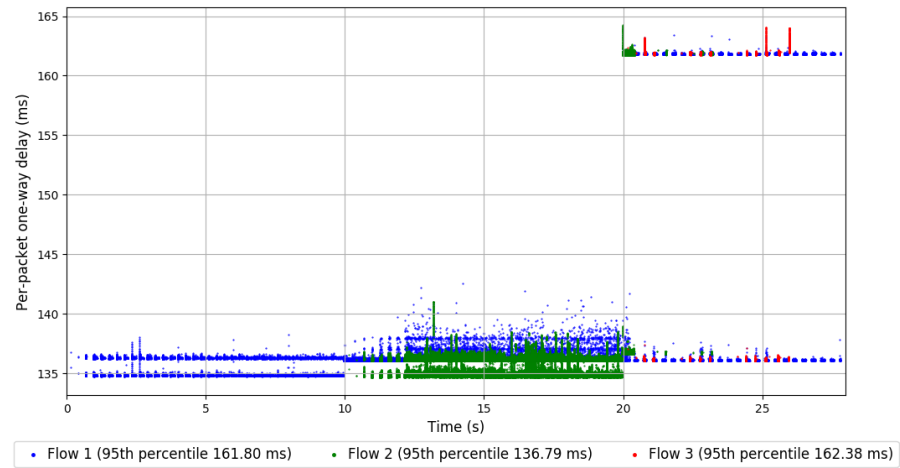
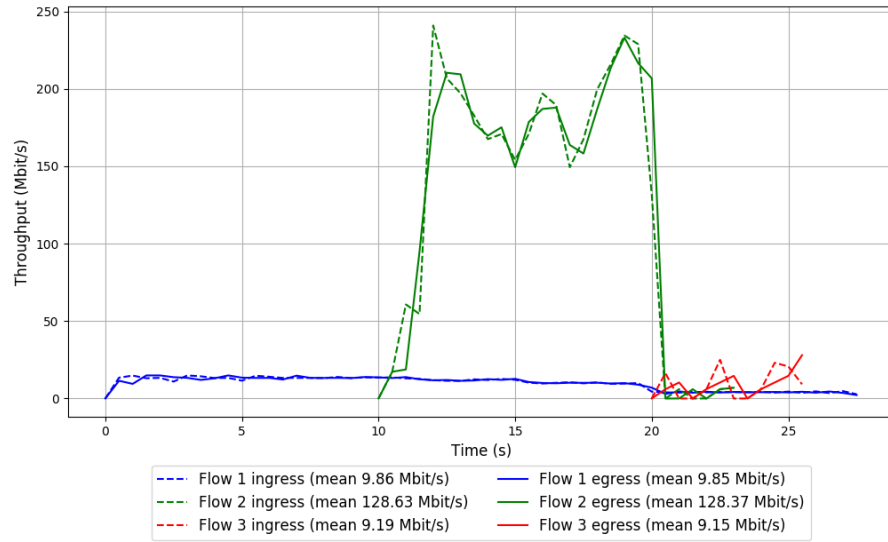


```
Run 1: Statistics of TaoVA-100x

Start at: 2017-12-01 08:54:46
End at: 2017-12-01 08:55:16

# Below is generated by plot.py at 2017-12-01 13:49:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 72.41 Mbit/s
95th percentile per-packet one-way delay: 161.764 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 9.85 Mbit/s
95th percentile per-packet one-way delay: 161.800 ms
Loss rate: 0.45%
-- Flow 2:
Average throughput: 128.37 Mbit/s
95th percentile per-packet one-way delay: 136.790 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 9.15 Mbit/s
95th percentile per-packet one-way delay: 162.383 ms
Loss rate: 0.00%
```


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

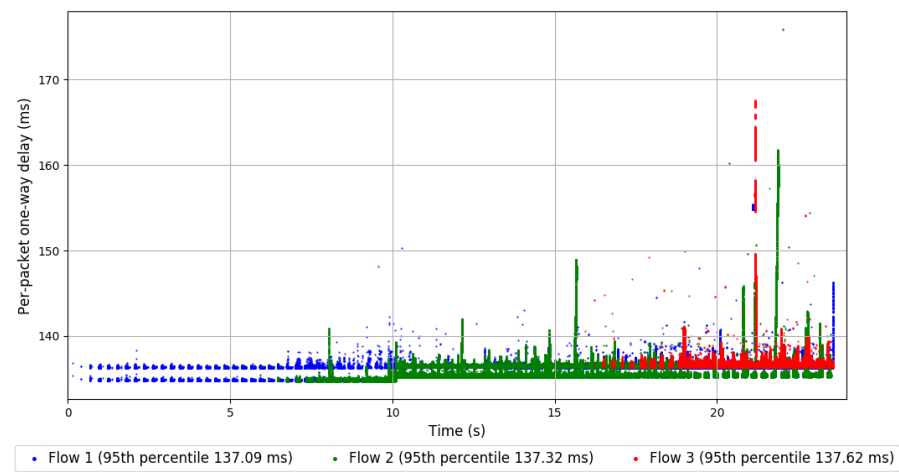
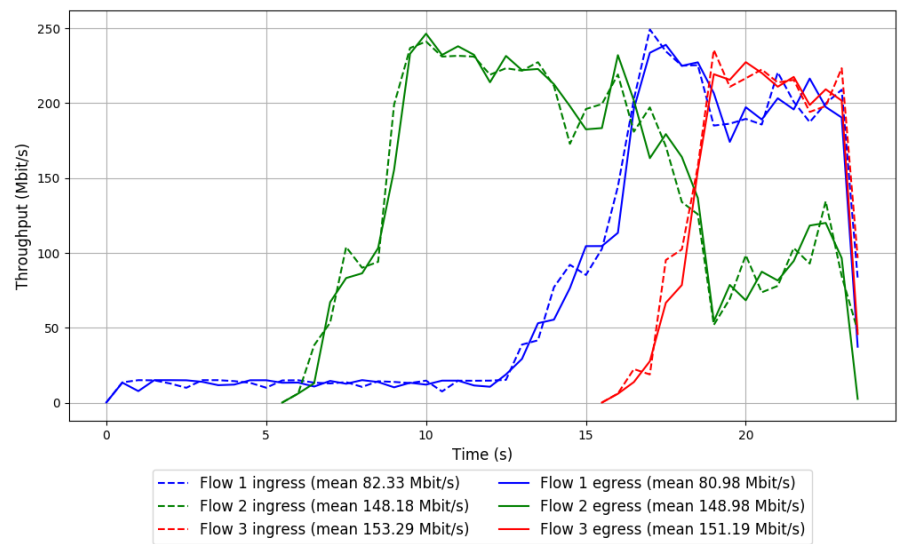


Run 2: Statistics of TaoVA-100x

Start at: 2017-12-01 09:08:32

End at: 2017-12-01 09:09:02

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

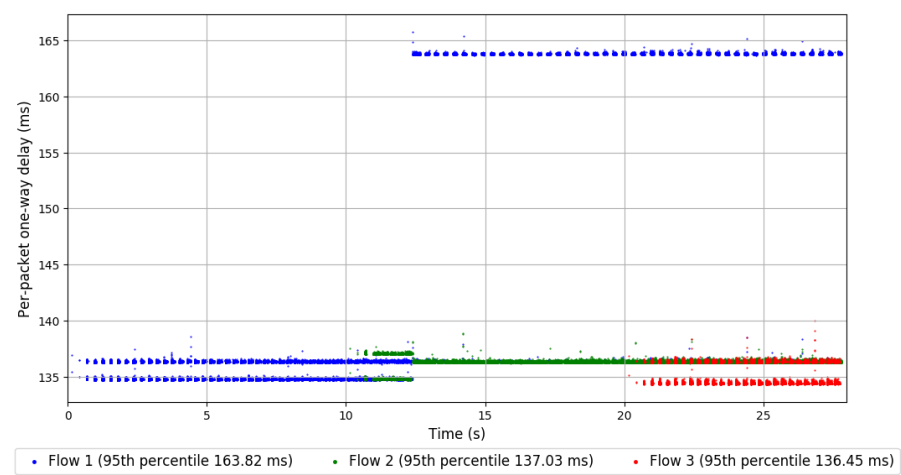
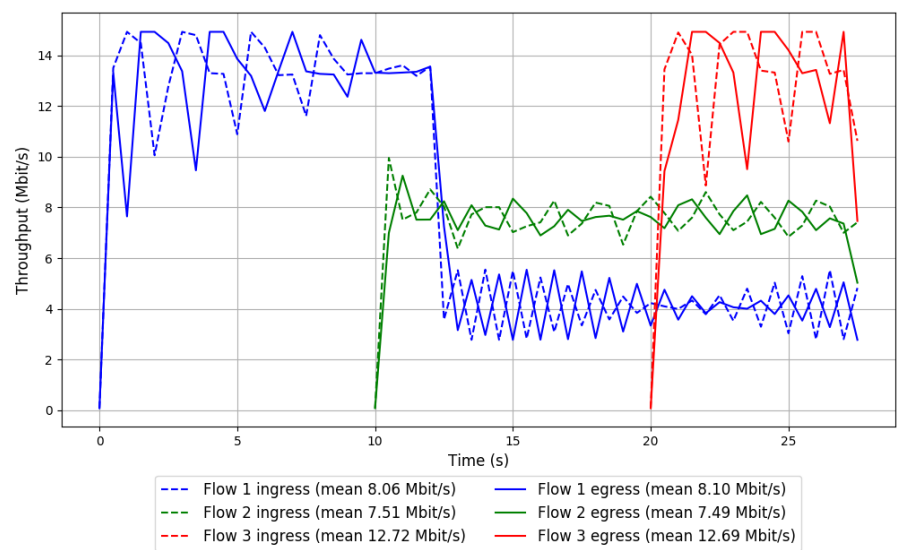


```
Run 3: Statistics of TaoVA-100x

Start at: 2017-12-01 09:22:34
End at: 2017-12-01 09:23:04

# Below is generated by plot.py at 2017-12-01 13:53:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 16.36 Mbit/s
95th percentile per-packet one-way delay: 163.771 ms
Loss rate: 1.54%
-- Flow 1:
Average throughput: 8.10 Mbit/s
95th percentile per-packet one-way delay: 163.818 ms
Loss rate: 0.46%
-- Flow 2:
Average throughput: 7.49 Mbit/s
95th percentile per-packet one-way delay: 137.032 ms
Loss rate: 1.71%
-- Flow 3:
Average throughput: 12.69 Mbit/s
95th percentile per-packet one-way delay: 136.454 ms
Loss rate: 3.73%
```

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



Run 4: Statistics of TaoVA-100x

Start at: 2017-12-01 09:36:14

End at: 2017-12-01 09:36:44

Below is generated by plot.py at 2017-12-01 13:53:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 58.33 Mbit/s

95th percentile per-packet one-way delay: 136.378 ms

Loss rate: 3.93%

-- Flow 1:

Average throughput: 5.68 Mbit/s

95th percentile per-packet one-way delay: 163.921 ms

Loss rate: 1.41%

-- Flow 2:

Average throughput: 11.52 Mbit/s

95th percentile per-packet one-way delay: 136.491 ms

Loss rate: 1.77%

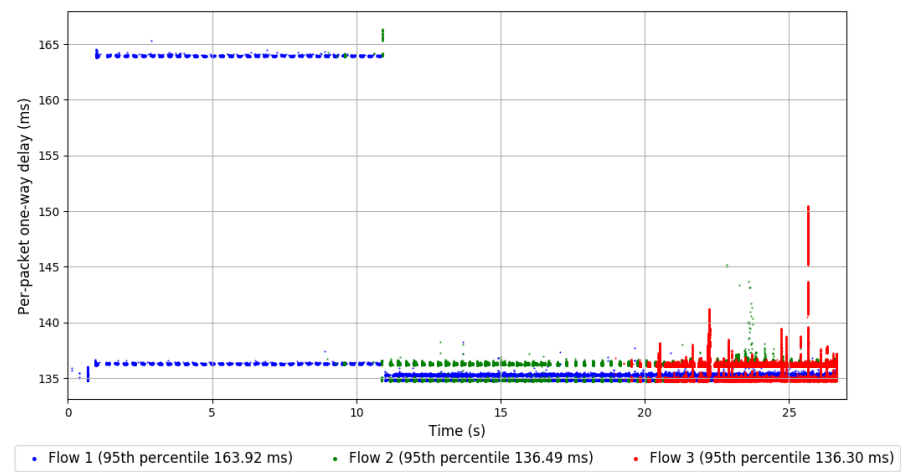
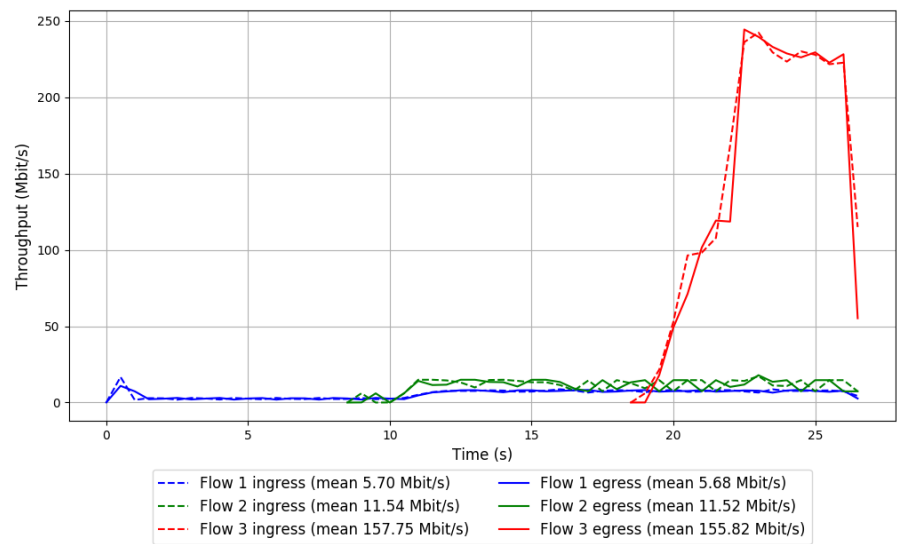
-- Flow 3:

Average throughput: 155.82 Mbit/s

95th percentile per-packet one-way delay: 136.297 ms

Loss rate: 4.60%

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



Run 5: Statistics of TaoVA-100x

Start at: 2017-12-01 09:50:03

End at: 2017-12-01 09:50:33

Below is generated by plot.py at 2017-12-01 13:53:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 18.53 Mbit/s

95th percentile per-packet one-way delay: 166.080 ms

Loss rate: 0.72%

-- Flow 1:

Average throughput: 11.88 Mbit/s

95th percentile per-packet one-way delay: 166.116 ms

Loss rate: 1.11%

-- Flow 2:

Average throughput: 5.91 Mbit/s

95th percentile per-packet one-way delay: 164.104 ms

Loss rate: 0.00%

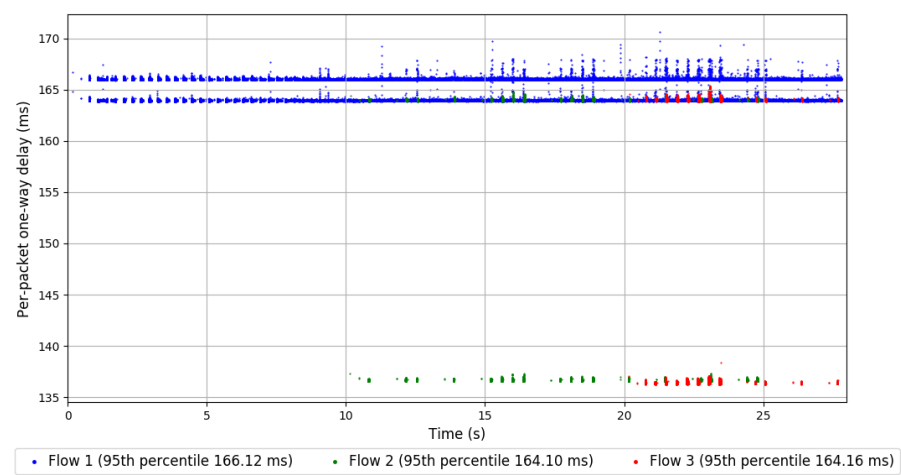
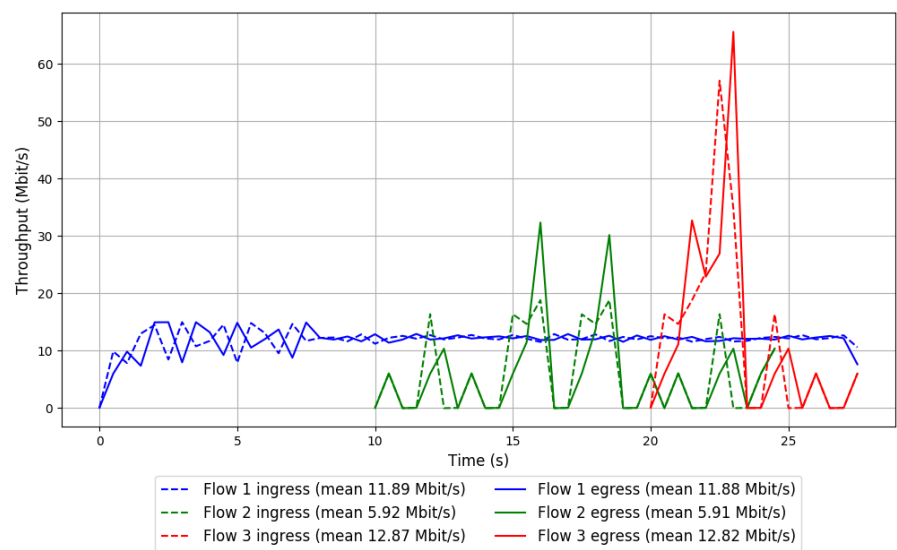
-- Flow 3:

Average throughput: 12.82 Mbit/s

95th percentile per-packet one-way delay: 164.159 ms

Loss rate: 0.00%

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



Run 6: Statistics of TaoVA-100x

Start at: 2017-12-01 10:03:18

End at: 2017-12-01 10:03:48

Below is generated by plot.py at 2017-12-01 13:53:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 16.53 Mbit/s

95th percentile per-packet one-way delay: 166.142 ms

Loss rate: 0.78%

-- Flow 1:

Average throughput: 11.98 Mbit/s

95th percentile per-packet one-way delay: 166.119 ms

Loss rate: 1.07%

-- Flow 2:

Average throughput: 6.96 Mbit/s

95th percentile per-packet one-way delay: 166.181 ms

Loss rate: 0.00%

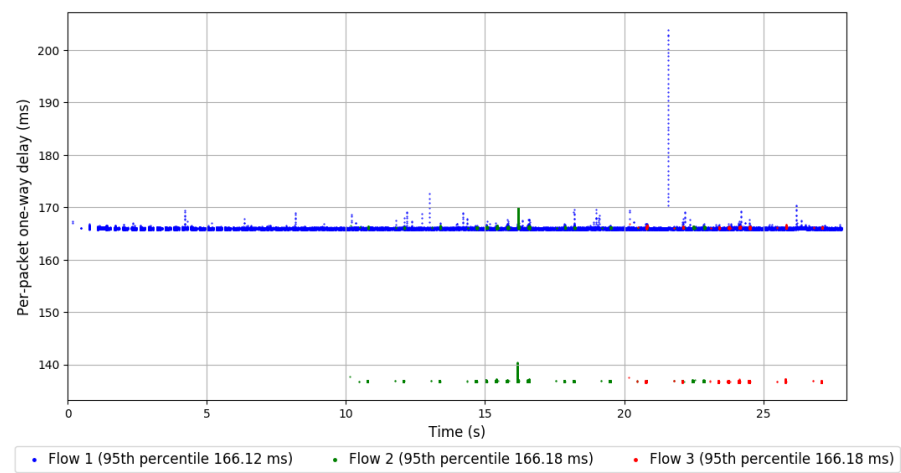
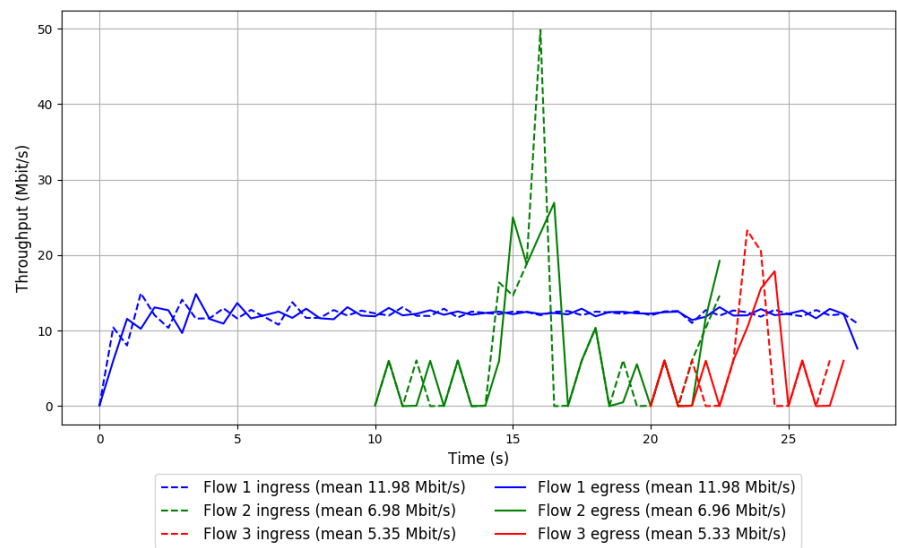
-- Flow 3:

Average throughput: 5.33 Mbit/s

95th percentile per-packet one-way delay: 166.179 ms

Loss rate: 0.00%

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

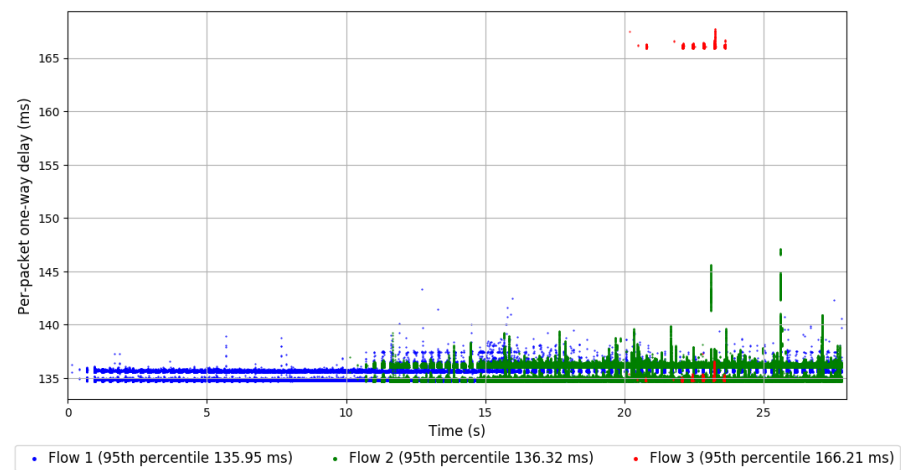
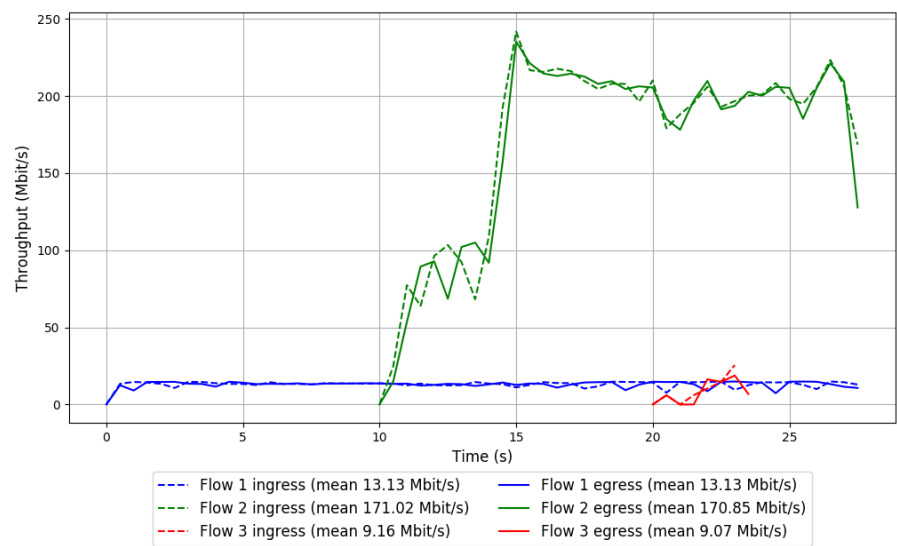


```
Run 7: Statistics of TaoVA-100x

Start at: 2017-12-01 10:16:36
End at: 2017-12-01 10:17:06

# Below is generated by plot.py at 2017-12-01 13:53:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 123.33 Mbit/s
95th percentile per-packet one-way delay: 136.325 ms
Loss rate: 1.53%
-- Flow 1:
Average throughput: 13.13 Mbit/s
95th percentile per-packet one-way delay: 135.951 ms
Loss rate: 0.94%
-- Flow 2:
Average throughput: 170.85 Mbit/s
95th percentile per-packet one-way delay: 136.320 ms
Loss rate: 1.62%
-- Flow 3:
Average throughput: 9.07 Mbit/s
95th percentile per-packet one-way delay: 166.209 ms
Loss rate: 0.00%
```

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



Run 8: Statistics of TaoVA-100x

Start at: 2017-12-01 10:30:10

End at: 2017-12-01 10:30:40

Below is generated by plot.py at 2017-12-01 13:53:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.46 Mbit/s

95th percentile per-packet one-way delay: 166.277 ms

Loss rate: 1.10%

-- Flow 1:

Average throughput: 6.75 Mbit/s

95th percentile per-packet one-way delay: 166.292 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 6.25 Mbit/s

95th percentile per-packet one-way delay: 166.242 ms

Loss rate: 2.73%

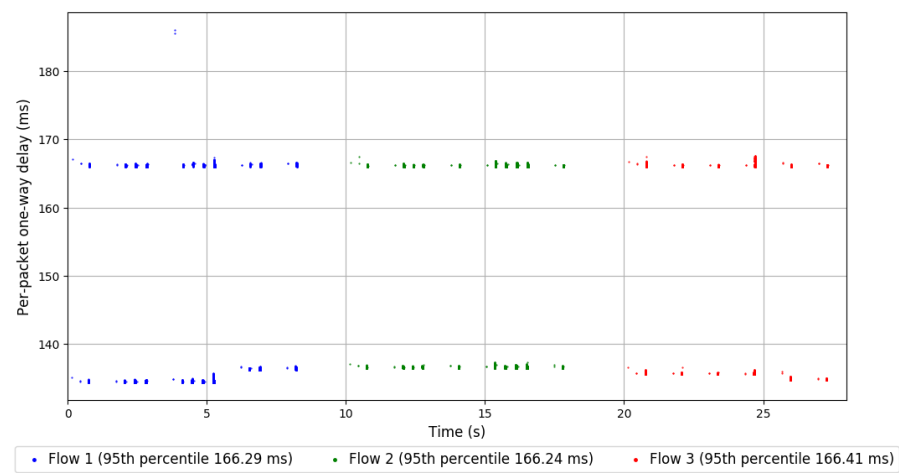
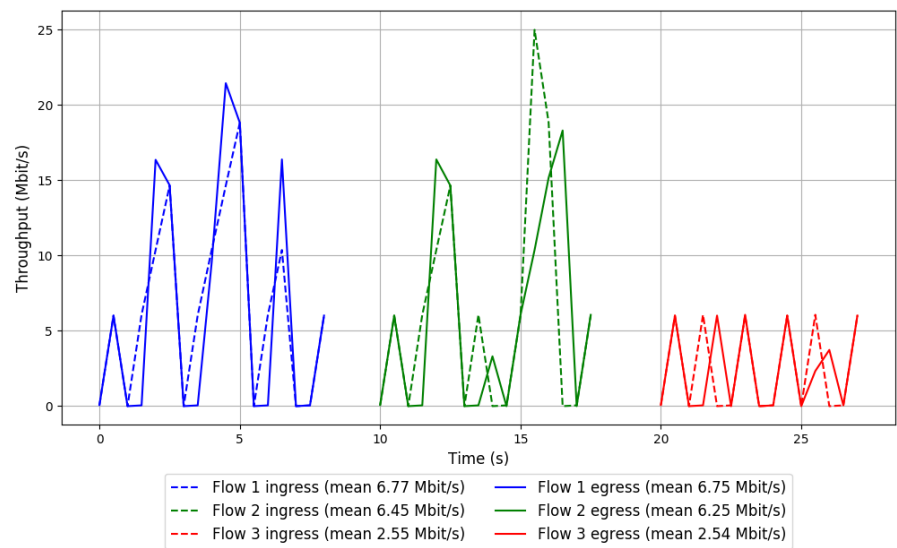
-- Flow 3:

Average throughput: 2.54 Mbit/s

95th percentile per-packet one-way delay: 166.414 ms

Loss rate: 0.00%

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

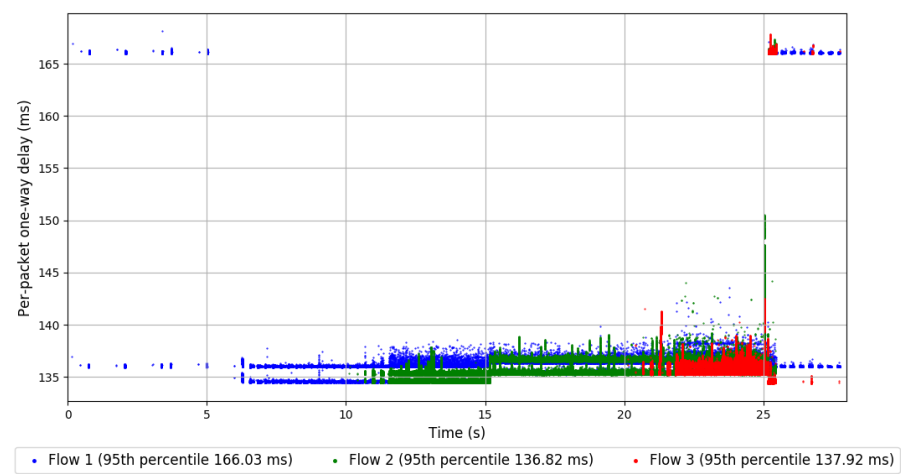
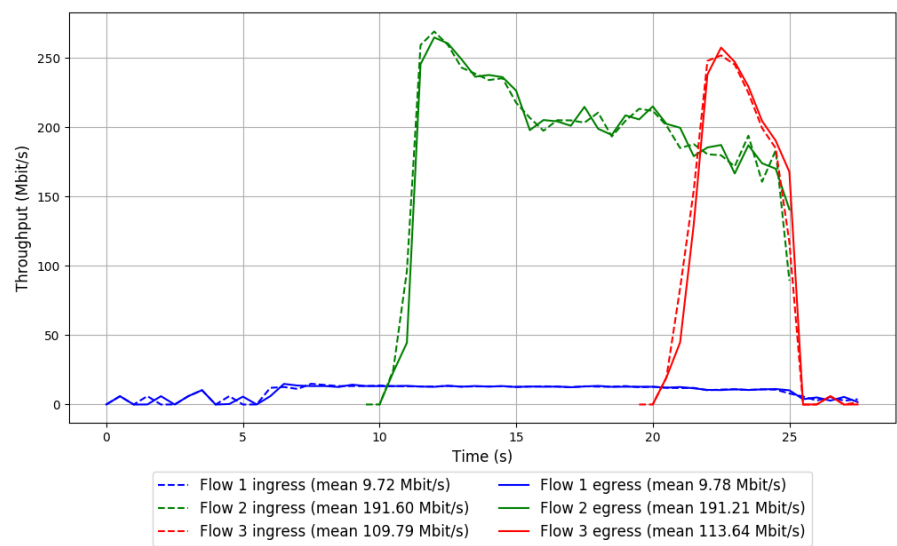


```
Run 9: Statistics of TaoVA-100x

Start at: 2017-12-01 10:43:01
End at: 2017-12-01 10:43:31

# Below is generated by plot.py at 2017-12-01 13:53:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 147.32 Mbit/s
95th percentile per-packet one-way delay: 136.902 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 9.78 Mbit/s
95th percentile per-packet one-way delay: 166.026 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 191.21 Mbit/s
95th percentile per-packet one-way delay: 136.823 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 113.64 Mbit/s
95th percentile per-packet one-way delay: 137.924 ms
Loss rate: 0.09%
```


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

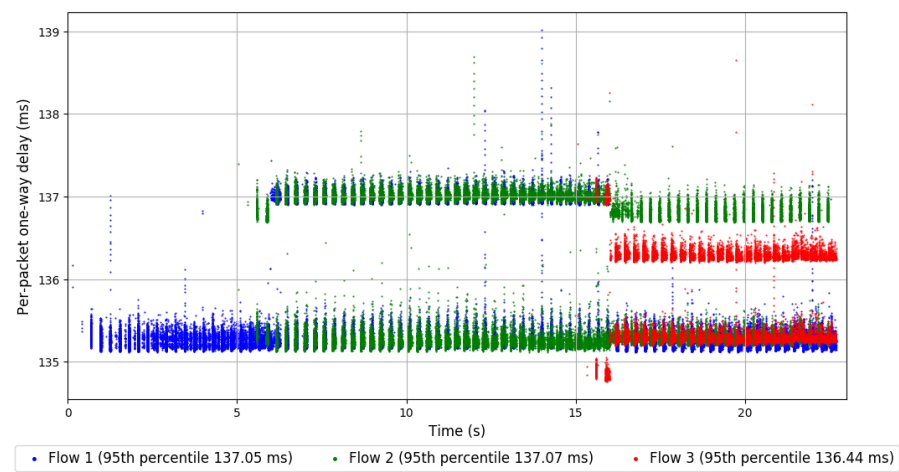
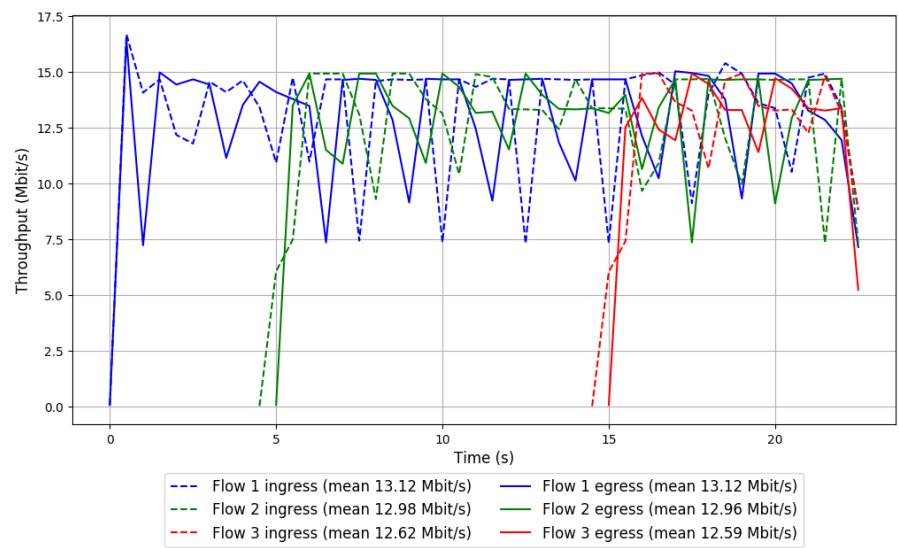


Run 10: Statistics of TaoVA-100x

Start at: 2017-12-01 10:57:05

End at: 2017-12-01 10:57:35

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



Run 1: Statistics of TCP Vegas

Start at: 2017-12-01 08:58:27

End at: 2017-12-01 08:58:57

Below is generated by plot.py at 2017-12-01 13:53:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 58.33 Mbit/s

95th percentile per-packet one-way delay: 139.131 ms

Loss rate: 0.98%

-- Flow 1:

Average throughput: 15.44 Mbit/s

95th percentile per-packet one-way delay: 137.360 ms

Loss rate: 0.69%

-- Flow 2:

Average throughput: 49.60 Mbit/s

95th percentile per-packet one-way delay: 137.262 ms

Loss rate: 0.82%

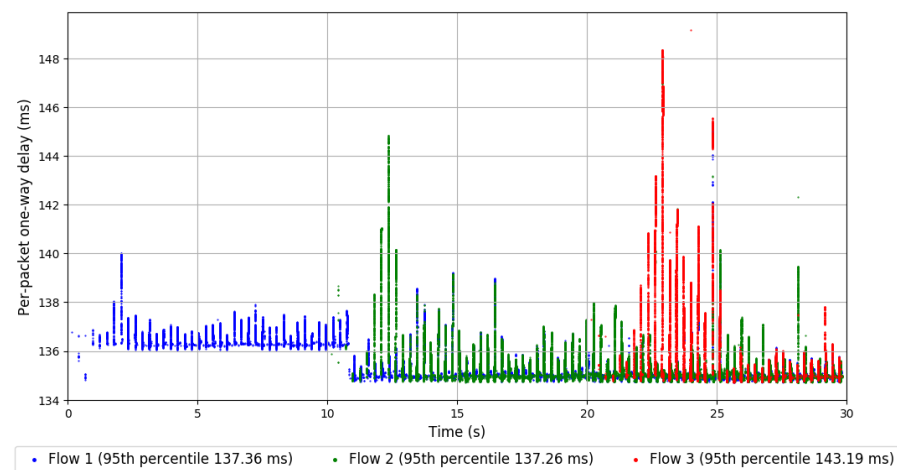
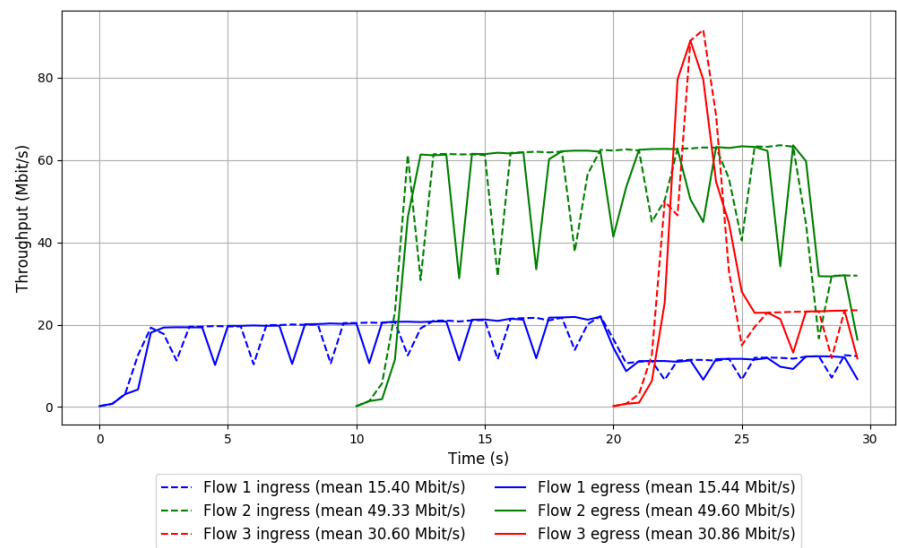
-- Flow 3:

Average throughput: 30.86 Mbit/s

95th percentile per-packet one-way delay: 143.195 ms

Loss rate: 1.95%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2017-12-01 09:12:31

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

Below is generated by plot.py at 2017-12-01 13:53:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 65.51 Mbit/s

95th percentile per-packet one-way delay: 142.703 ms

Loss rate: 1.14%

-- Flow 1:

Average throughput: 21.70 Mbit/s

95th percentile per-packet one-way delay: 138.139 ms

Loss rate: 0.99%

-- Flow 2:

Average throughput: 47.13 Mbit/s

95th percentile per-packet one-way delay: 141.333 ms

Loss rate: 0.82%

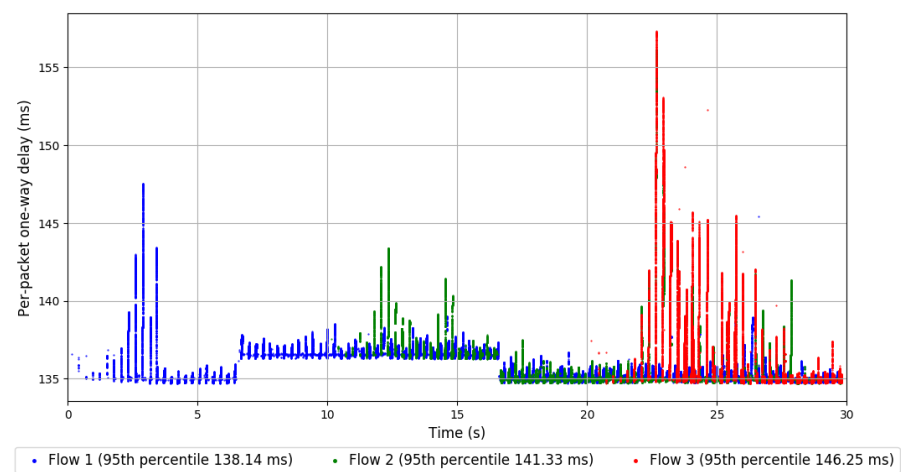
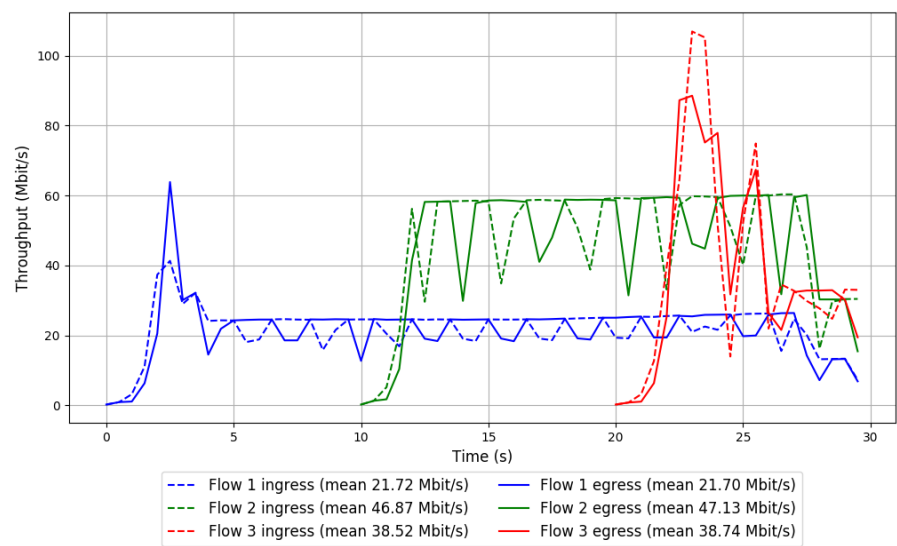
-- Flow 3:

Average throughput: 38.74 Mbit/s

95th percentile per-packet one-way delay: 146.251 ms

Loss rate: 2.17%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2017-12-01 09:26:10

End at: 2017-12-01 09:26:40

Below is generated by plot.py at 2017-12-01 13:53:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 17.83 Mbit/s

95th percentile per-packet one-way delay: 164.153 ms

Loss rate: 1.21%

-- Flow 1:

Average throughput: 1.55 Mbit/s

95th percentile per-packet one-way delay: 164.135 ms

Loss rate: 1.24%

-- Flow 2:

Average throughput: 24.17 Mbit/s

95th percentile per-packet one-way delay: 164.153 ms

Loss rate: 1.16%

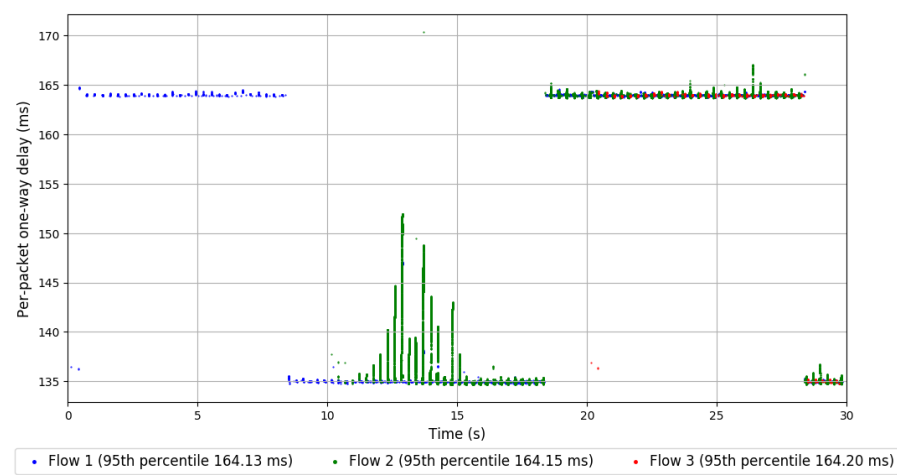
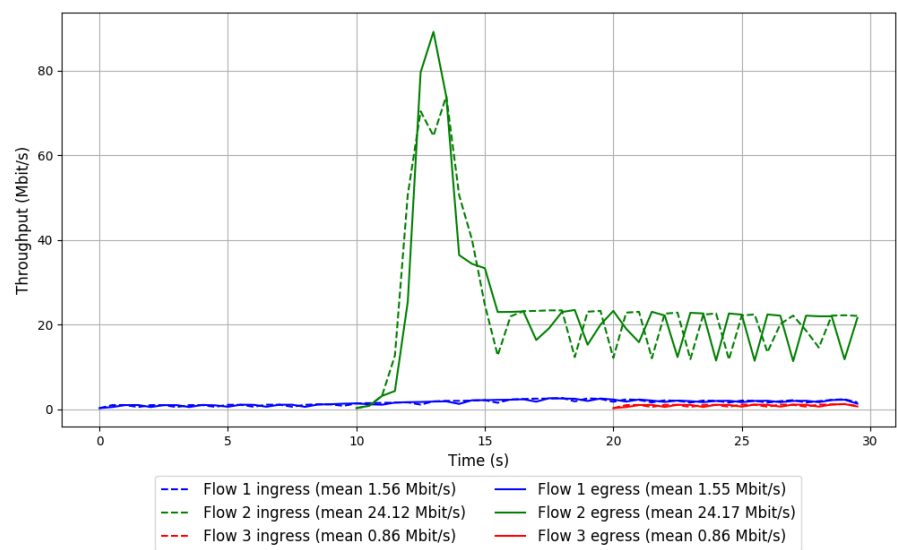
-- Flow 3:

Average throughput: 0.86 Mbit/s

95th percentile per-packet one-way delay: 164.201 ms

Loss rate: 3.81%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2017-12-01 09:40:00

End at: 2017-12-01 09:40:30

Below is generated by plot.py at 2017-12-01 13:53:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 43.73 Mbit/s

95th percentile per-packet one-way delay: 171.223 ms

Loss rate: 2.57%

-- Flow 1:

Average throughput: 2.19 Mbit/s

95th percentile per-packet one-way delay: 164.290 ms

Loss rate: 1.63%

-- Flow 2:

Average throughput: 30.05 Mbit/s

95th percentile per-packet one-way delay: 170.355 ms

Loss rate: 1.54%

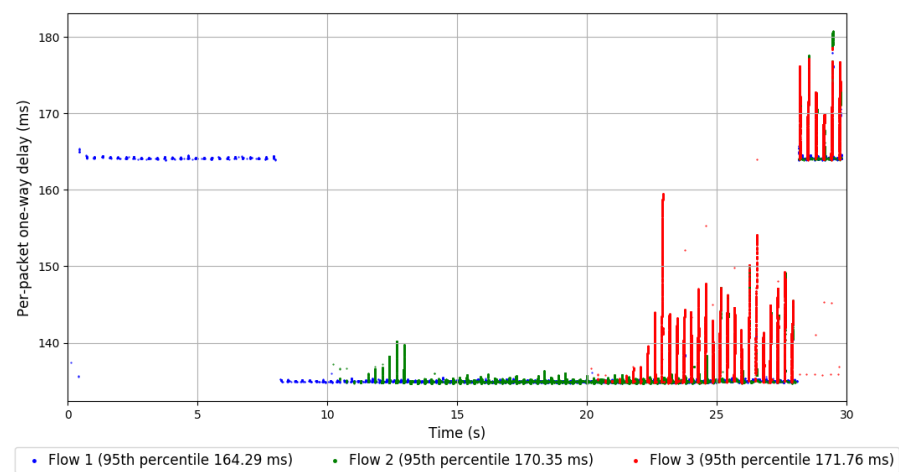
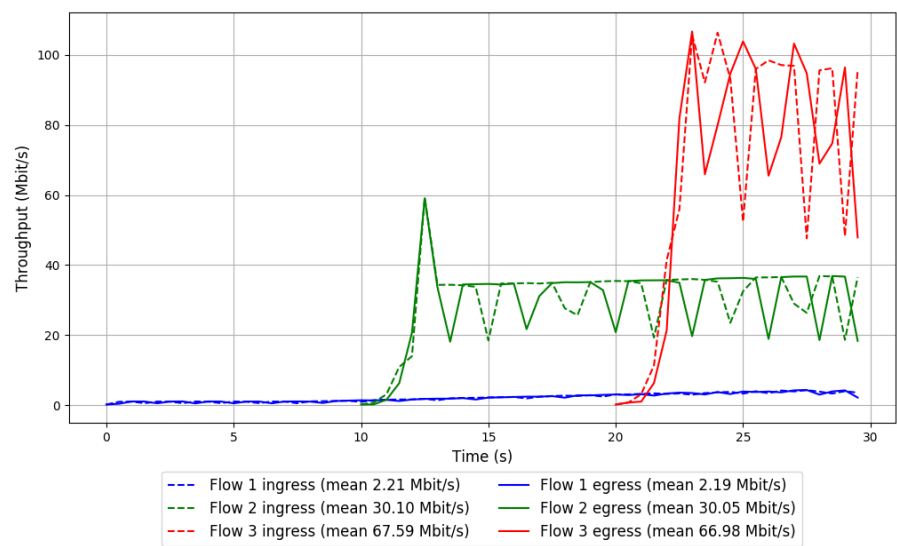
-- Flow 3:

Average throughput: 66.98 Mbit/s

95th percentile per-packet one-way delay: 171.756 ms

Loss rate: 3.59%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2017-12-01 09:53:42

End at: 2017-12-01 09:54:12

Below is generated by plot.py at 2017-12-01 13:53:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 20.97 Mbit/s

95th percentile per-packet one-way delay: 167.735 ms

Loss rate: 1.99%

-- Flow 1:

Average throughput: 13.20 Mbit/s

95th percentile per-packet one-way delay: 167.213 ms

Loss rate: 1.13%

-- Flow 2:

Average throughput: 0.74 Mbit/s

95th percentile per-packet one-way delay: 166.477 ms

Loss rate: 1.56%

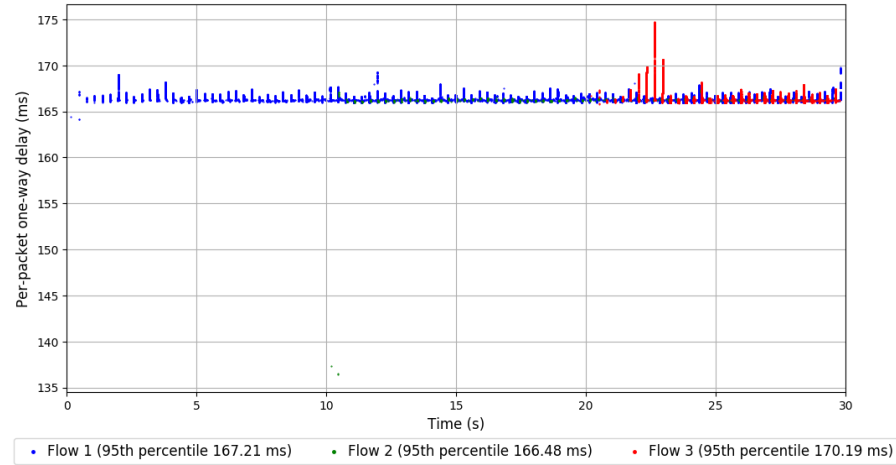
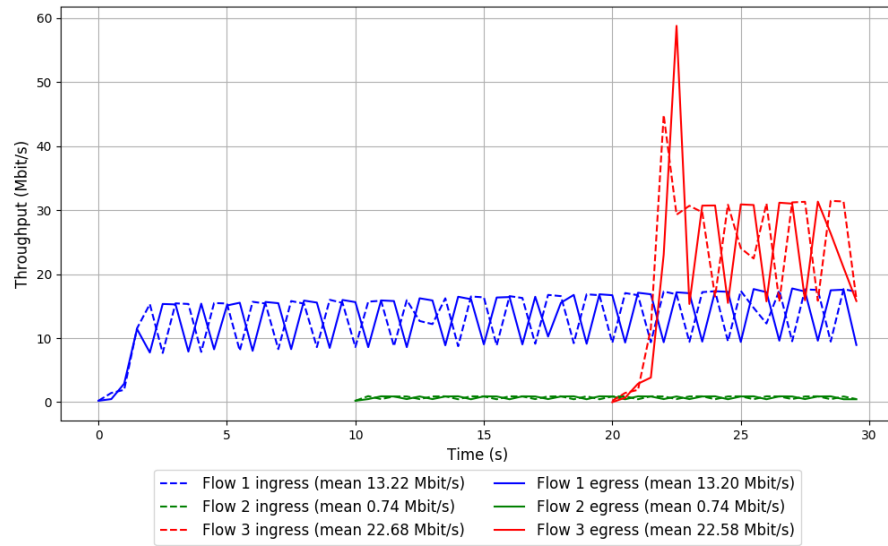
-- Flow 3:

Average throughput: 22.58 Mbit/s

95th percentile per-packet one-way delay: 170.191 ms

Loss rate: 3.54%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2017-12-01 10:06:57

End at: 2017-12-01 10:07:27

Below is generated by plot.py at 2017-12-01 13:53:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 54.14 Mbit/s

95th percentile per-packet one-way delay: 166.815 ms

Loss rate: 1.62%

-- Flow 1:

Average throughput: 39.62 Mbit/s

95th percentile per-packet one-way delay: 166.969 ms

Loss rate: 0.96%

-- Flow 2:

Average throughput: 1.59 Mbit/s

95th percentile per-packet one-way delay: 166.530 ms

Loss rate: 2.44%

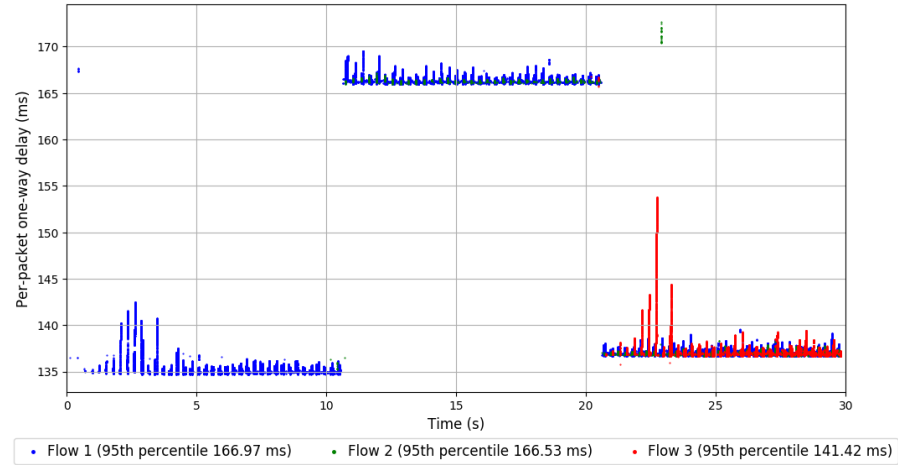
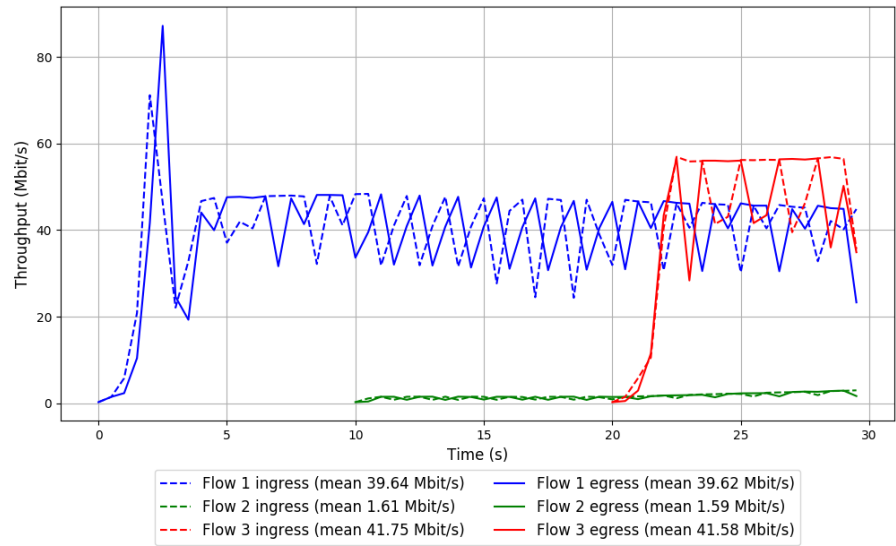
-- Flow 3:

Average throughput: 41.58 Mbit/s

95th percentile per-packet one-way delay: 141.423 ms

Loss rate: 3.44%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2017-12-01 10:20:23

End at: 2017-12-01 10:20:53

Below is generated by plot.py at 2017-12-01 13:53:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 1.49 Mbit/s

95th percentile per-packet one-way delay: 166.431 ms

Loss rate: 1.55%

-- Flow 1:

Average throughput: 0.80 Mbit/s

95th percentile per-packet one-way delay: 166.415 ms

Loss rate: 1.10%

-- Flow 2:

Average throughput: 0.71 Mbit/s

95th percentile per-packet one-way delay: 166.362 ms

Loss rate: 1.52%

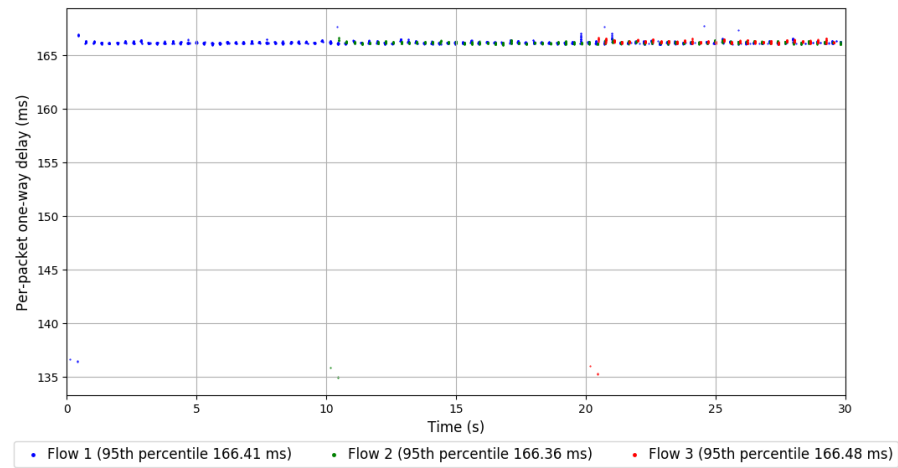
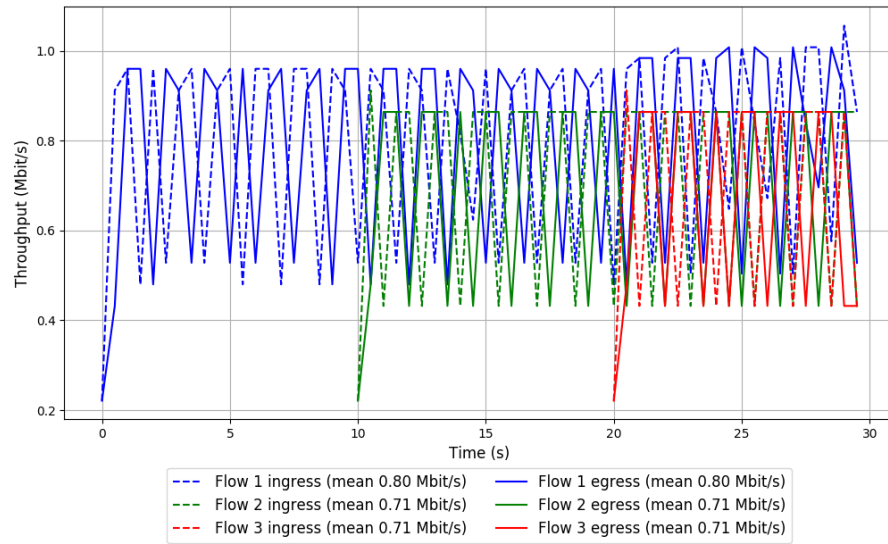
-- Flow 3:

Average throughput: 0.71 Mbit/s

95th percentile per-packet one-way delay: 166.482 ms

Loss rate: 3.16%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2017-12-01 10:33:44

End at: 2017-12-01 10:34:14

Below is generated by plot.py at 2017-12-01 13:53:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 10.72 Mbit/s

95th percentile per-packet one-way delay: 167.003 ms

Loss rate: 2.88%

-- Flow 1:

Average throughput: 1.51 Mbit/s

95th percentile per-packet one-way delay: 166.564 ms

Loss rate: 1.17%

-- Flow 2:

Average throughput: 1.50 Mbit/s

95th percentile per-packet one-way delay: 166.414 ms

Loss rate: 1.68%

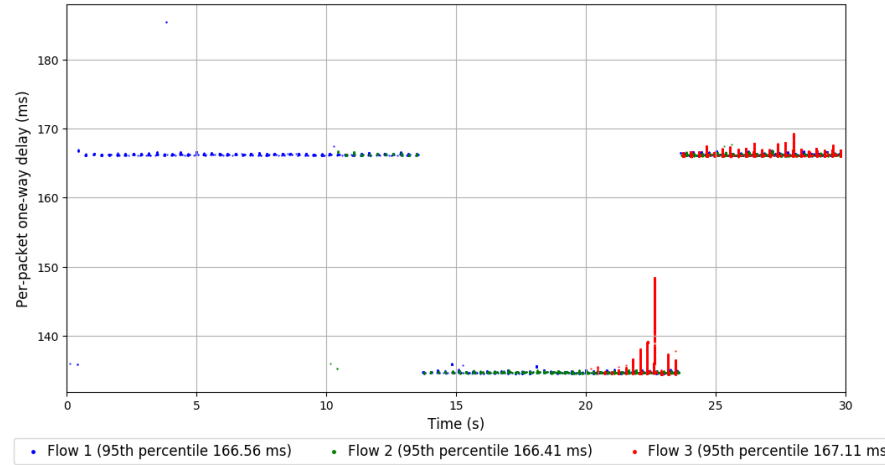
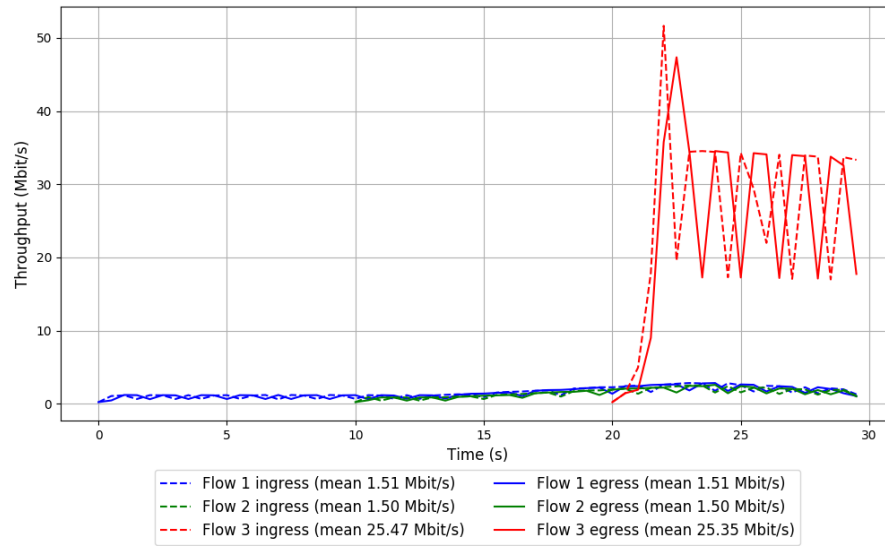
-- Flow 3:

Average throughput: 25.35 Mbit/s

95th percentile per-packet one-way delay: 167.108 ms

Loss rate: 3.32%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2017-12-01 10:46:50

End at: 2017-12-01 10:47:20

Below is generated by plot.py at 2017-12-01 13:53:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 47.35 Mbit/s

95th percentile per-packet one-way delay: 138.929 ms

Loss rate: 1.48%

-- Flow 1:

Average throughput: 29.66 Mbit/s

95th percentile per-packet one-way delay: 138.646 ms

Loss rate: 1.00%

-- Flow 2:

Average throughput: 14.09 Mbit/s

95th percentile per-packet one-way delay: 139.148 ms

Loss rate: 1.50%

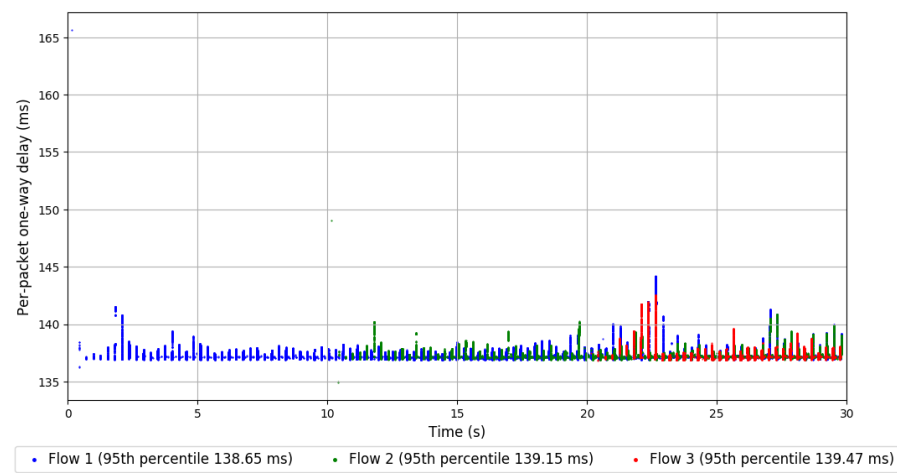
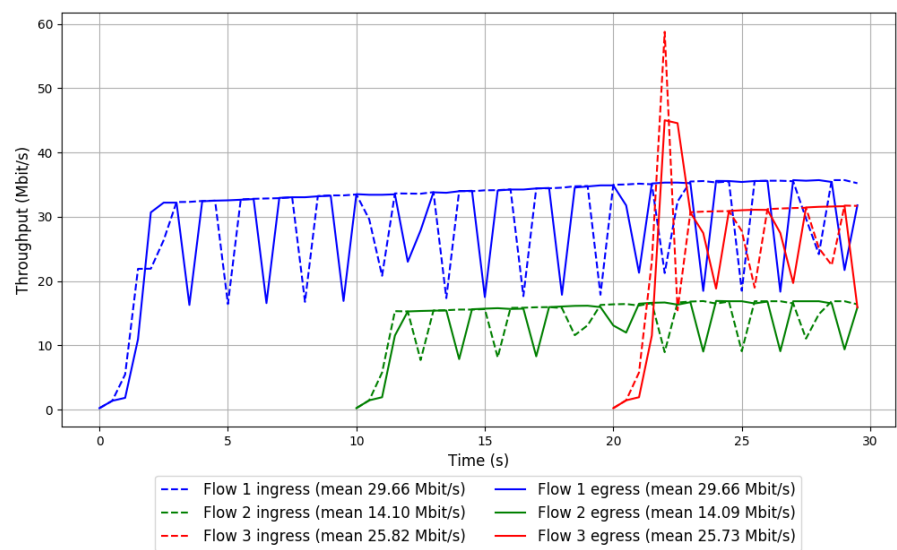
-- Flow 3:

Average throughput: 25.73 Mbit/s

95th percentile per-packet one-way delay: 139.474 ms

Loss rate: 3.12%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2017-12-01 11:00:42

End at: 2017-12-01 11:01:12

Below is generated by plot.py at 2017-12-01 13:53:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 46.01 Mbit/s

95th percentile per-packet one-way delay: 138.277 ms

Loss rate: 1.11%

-- Flow 1:

Average throughput: 34.98 Mbit/s

95th percentile per-packet one-way delay: 138.232 ms

Loss rate: 1.02%

-- Flow 2:

Average throughput: 8.59 Mbit/s

95th percentile per-packet one-way delay: 137.999 ms

Loss rate: 1.67%

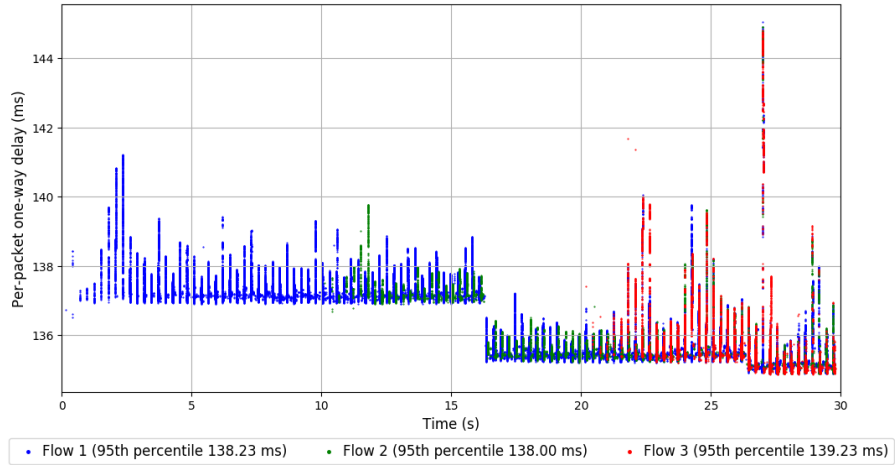
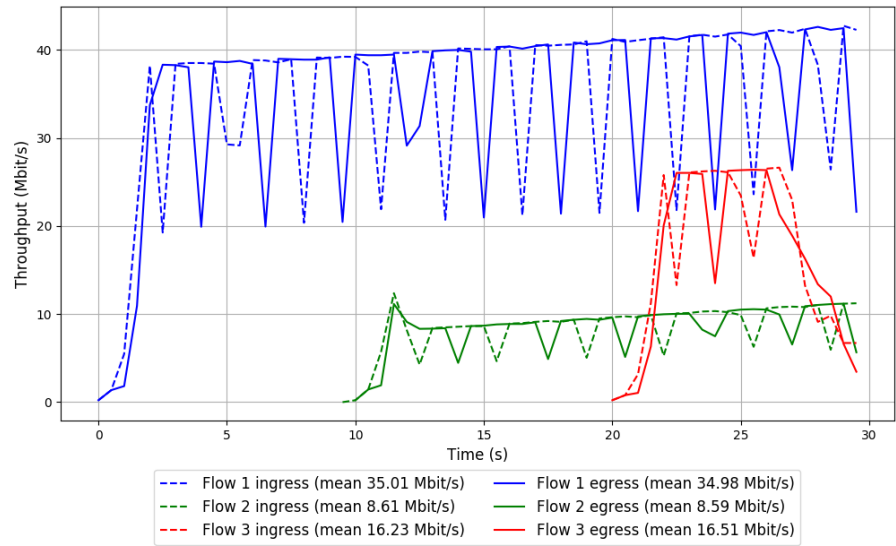
-- Flow 3:

Average throughput: 16.51 Mbit/s

95th percentile per-packet one-way delay: 139.228 ms

Loss rate: 1.08%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2017-12-01 09:03:26

End at: 2017-12-01 09:03:56

Below is generated by plot.py at 2017-12-01 13:55:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 294.64 Mbit/s

95th percentile per-packet one-way delay: 184.348 ms

Loss rate: 0.97%

-- Flow 1:

Average throughput: 239.65 Mbit/s

95th percentile per-packet one-way delay: 186.947 ms

Loss rate: 0.31%

-- Flow 2:

Average throughput: 46.34 Mbit/s

95th percentile per-packet one-way delay: 152.157 ms

Loss rate: 0.04%

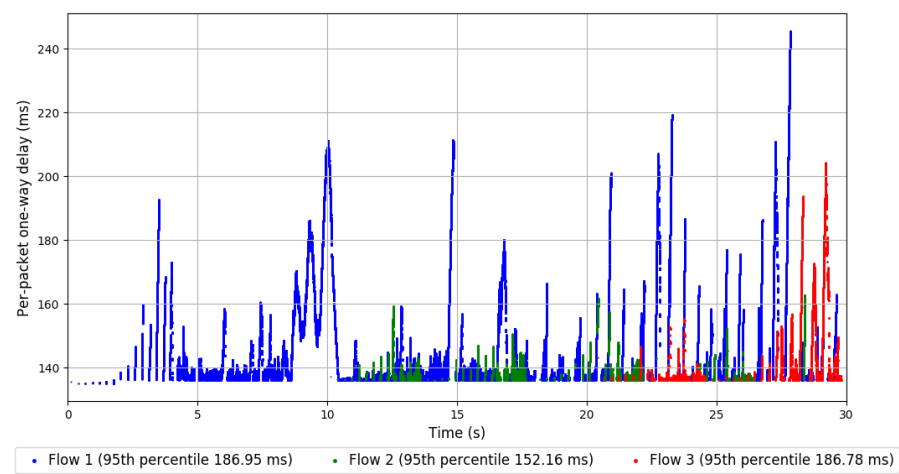
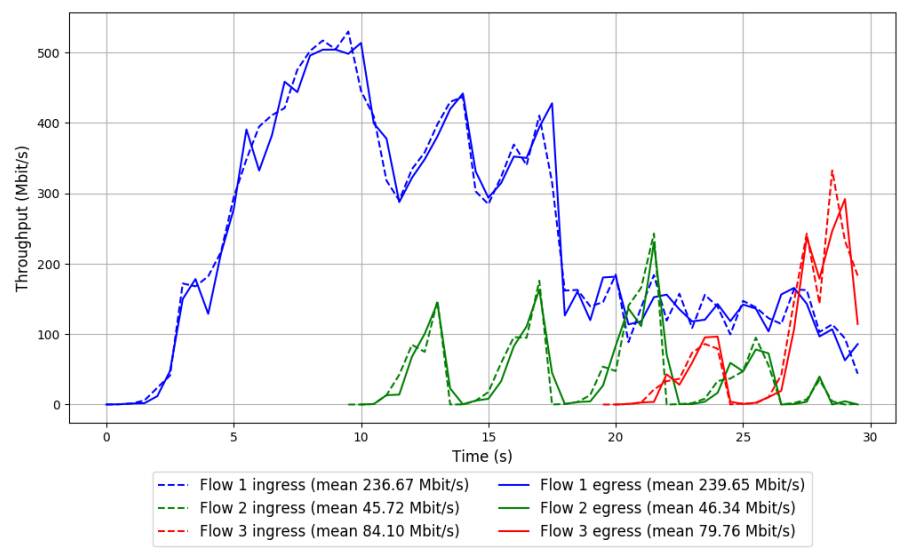
-- Flow 3:

Average throughput: 79.76 Mbit/s

95th percentile per-packet one-way delay: 186.778 ms

Loss rate: 7.61%

Run 1: Report of Verus — Data Link

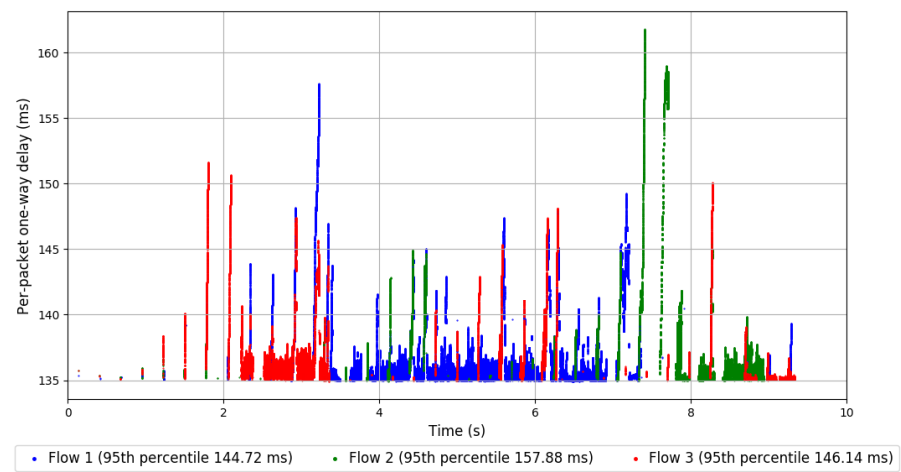
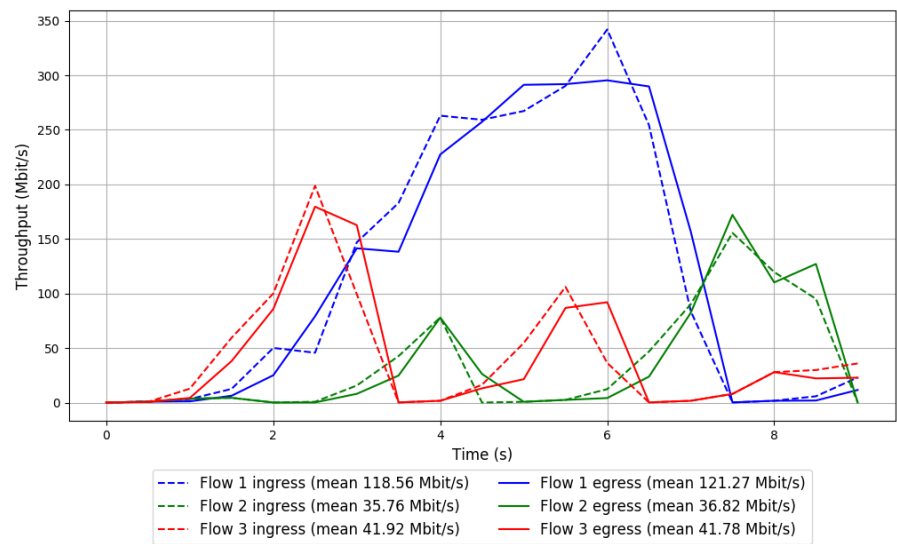


Run 2: Statistics of Verus

Start at: 2017-12-01 09:17:46

End at: 2017-12-01 09:18:16

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2017-12-01 09:31:11

End at: 2017-12-01 09:31:41

Below is generated by plot.py at 2017-12-01 13:55:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 234.12 Mbit/s

95th percentile per-packet one-way delay: 233.413 ms

Loss rate: 2.59%

-- Flow 1:

Average throughput: 164.48 Mbit/s

95th percentile per-packet one-way delay: 264.867 ms

Loss rate: 2.75%

-- Flow 2:

Average throughput: 52.97 Mbit/s

95th percentile per-packet one-way delay: 203.410 ms

Loss rate: 1.23%

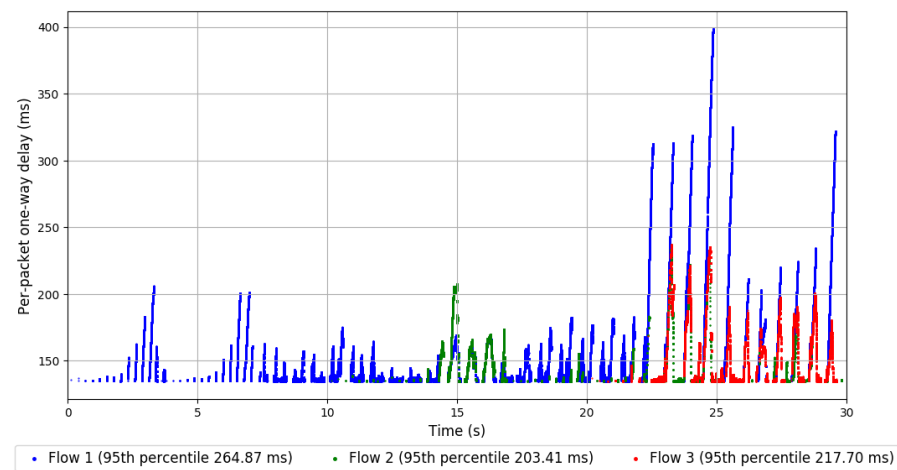
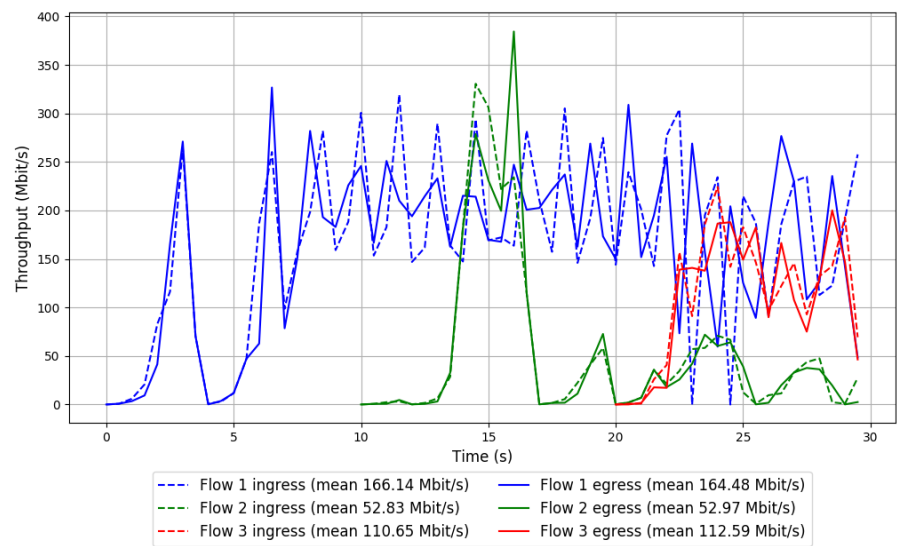
-- Flow 3:

Average throughput: 112.59 Mbit/s

95th percentile per-packet one-way delay: 217.698 ms

Loss rate: 3.16%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2017-12-01 09:45:05

End at: 2017-12-01 09:45:35

Below is generated by plot.py at 2017-12-01 13:55:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 176.95 Mbit/s

95th percentile per-packet one-way delay: 214.625 ms

Loss rate: 4.01%

-- Flow 1:

Average throughput: 78.58 Mbit/s

95th percentile per-packet one-way delay: 206.605 ms

Loss rate: 0.25%

-- Flow 2:

Average throughput: 111.35 Mbit/s

95th percentile per-packet one-way delay: 251.900 ms

Loss rate: 3.97%

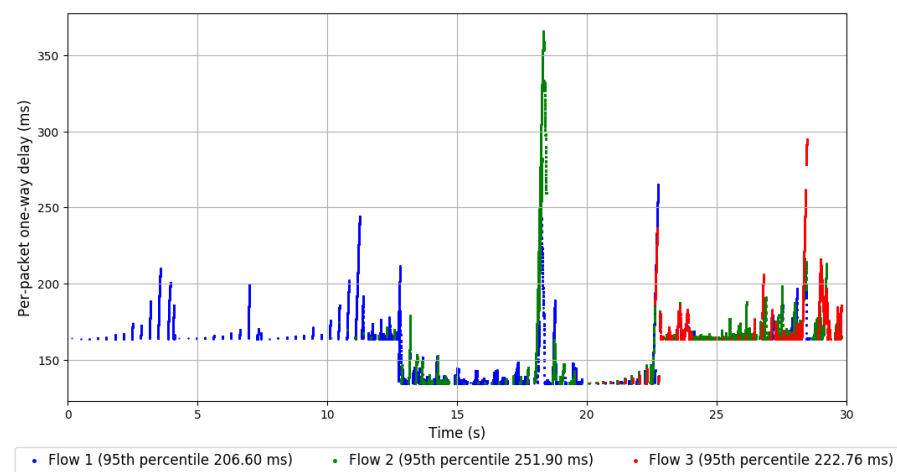
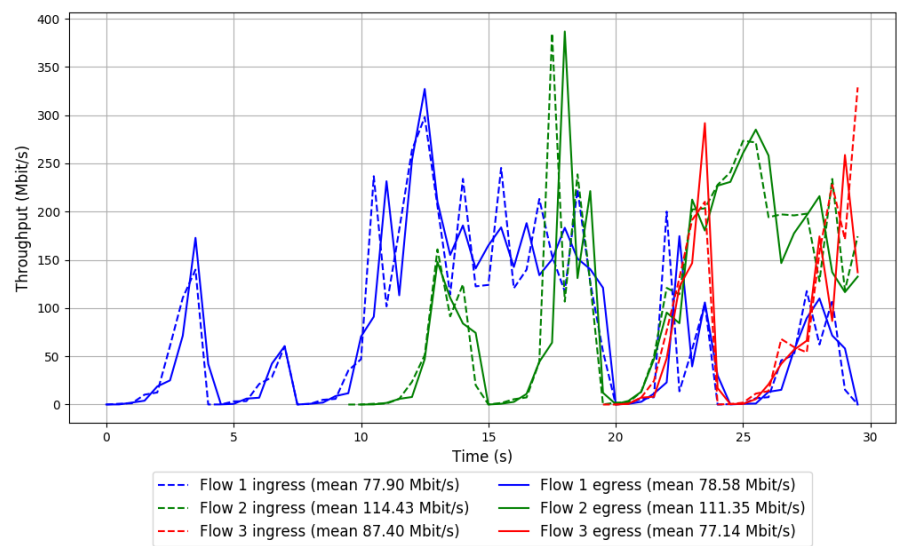
-- Flow 3:

Average throughput: 77.14 Mbit/s

95th percentile per-packet one-way delay: 222.758 ms

Loss rate: 14.14%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2017-12-01 09:58:20

End at: 2017-12-01 09:58:50

Below is generated by plot.py at 2017-12-01 13:55:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 226.08 Mbit/s

95th percentile per-packet one-way delay: 206.546 ms

Loss rate: 1.40%

-- Flow 1:

Average throughput: 150.37 Mbit/s

95th percentile per-packet one-way delay: 199.289 ms

Loss rate: 1.31%

-- Flow 2:

Average throughput: 92.11 Mbit/s

95th percentile per-packet one-way delay: 192.373 ms

Loss rate: 1.00%

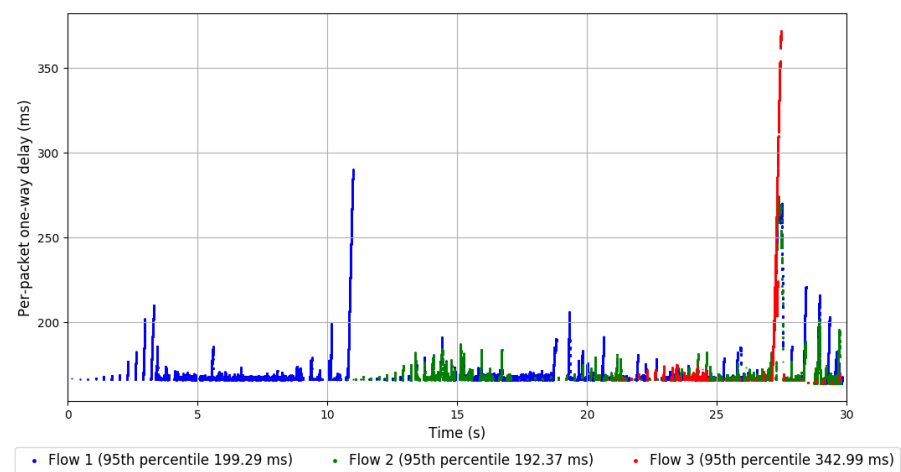
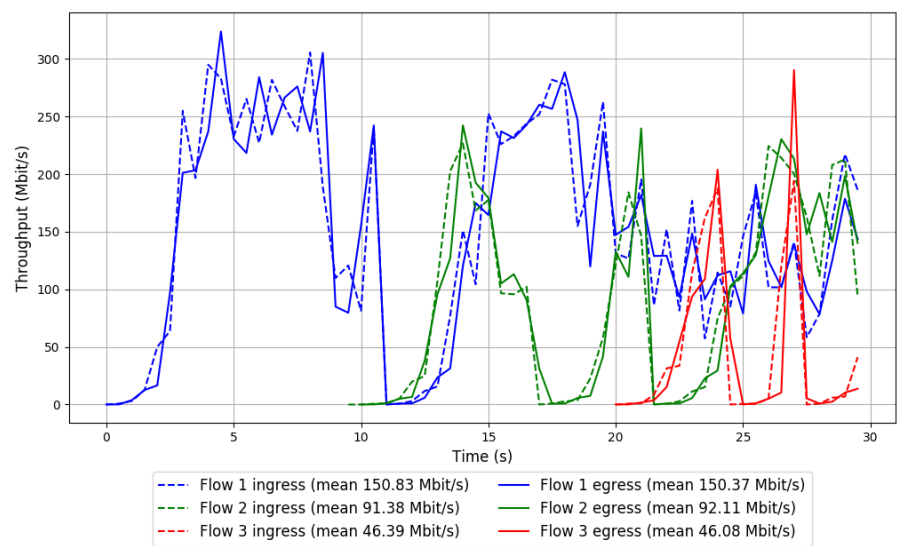
-- Flow 3:

Average throughput: 46.08 Mbit/s

95th percentile per-packet one-way delay: 342.989 ms

Loss rate: 3.88%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2017-12-01 10:11:46

End at: 2017-12-01 10:12:16

Below is generated by plot.py at 2017-12-01 13:55:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 155.20 Mbit/s

95th percentile per-packet one-way delay: 249.339 ms

Loss rate: 1.18%

-- Flow 1:

Average throughput: 86.26 Mbit/s

95th percentile per-packet one-way delay: 284.453 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 53.53 Mbit/s

95th percentile per-packet one-way delay: 169.399 ms

Loss rate: 0.00%

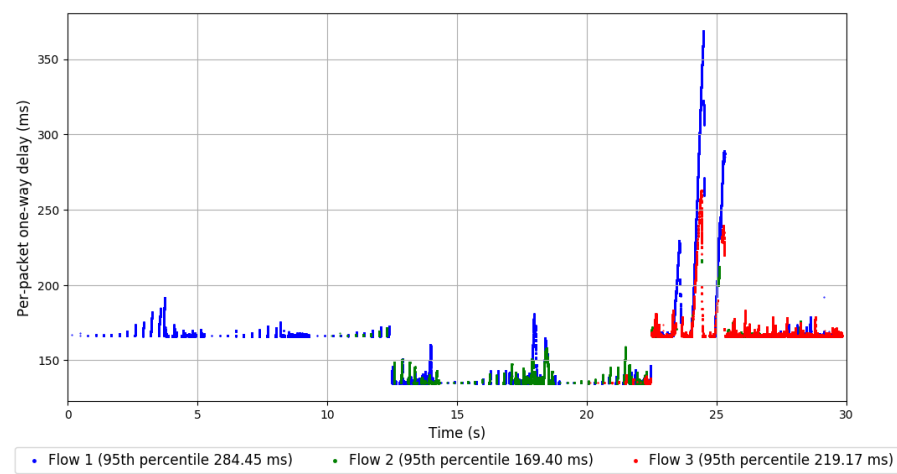
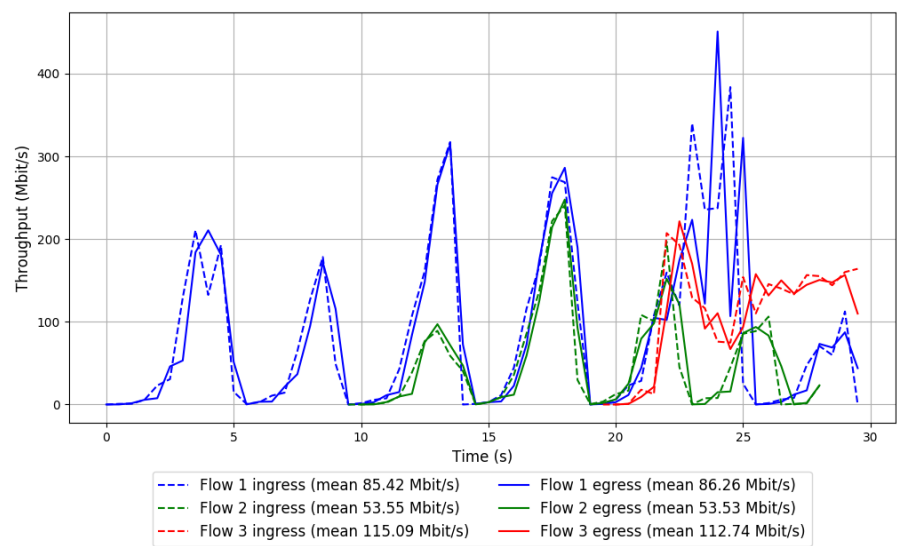
-- Flow 3:

Average throughput: 112.74 Mbit/s

95th percentile per-packet one-way delay: 219.169 ms

Loss rate: 4.70%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2017-12-01 10:25:11

End at: 2017-12-01 10:25:41

Below is generated by plot.py at 2017-12-01 13:55:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 204.84 Mbit/s

95th percentile per-packet one-way delay: 238.761 ms

Loss rate: 3.38%

-- Flow 1:

Average throughput: 147.94 Mbit/s

95th percentile per-packet one-way delay: 214.549 ms

Loss rate: 0.67%

-- Flow 2:

Average throughput: 47.96 Mbit/s

95th percentile per-packet one-way delay: 372.728 ms

Loss rate: 6.71%

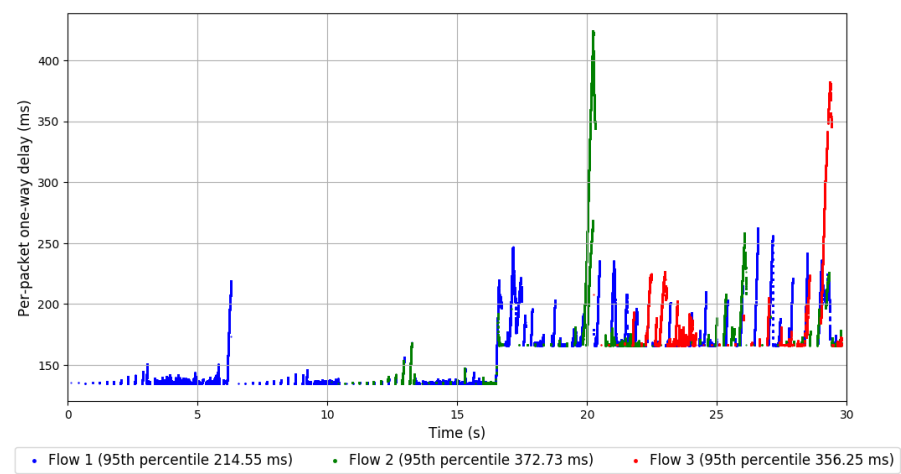
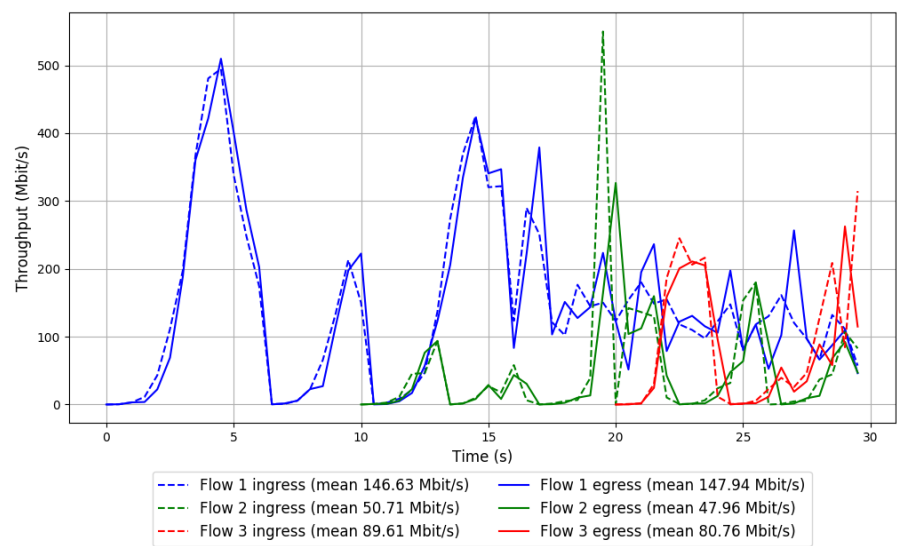
-- Flow 3:

Average throughput: 80.76 Mbit/s

95th percentile per-packet one-way delay: 356.248 ms

Loss rate: 12.97%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2017-12-01 10:38:23

End at: 2017-12-01 10:38:53

Below is generated by plot.py at 2017-12-01 13:55:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 142.13 Mbit/s

95th percentile per-packet one-way delay: 187.104 ms

Loss rate: 2.11%

-- Flow 1:

Average throughput: 66.23 Mbit/s

95th percentile per-packet one-way delay: 188.687 ms

Loss rate: 0.92%

-- Flow 2:

Average throughput: 94.52 Mbit/s

95th percentile per-packet one-way delay: 189.048 ms

Loss rate: 3.23%

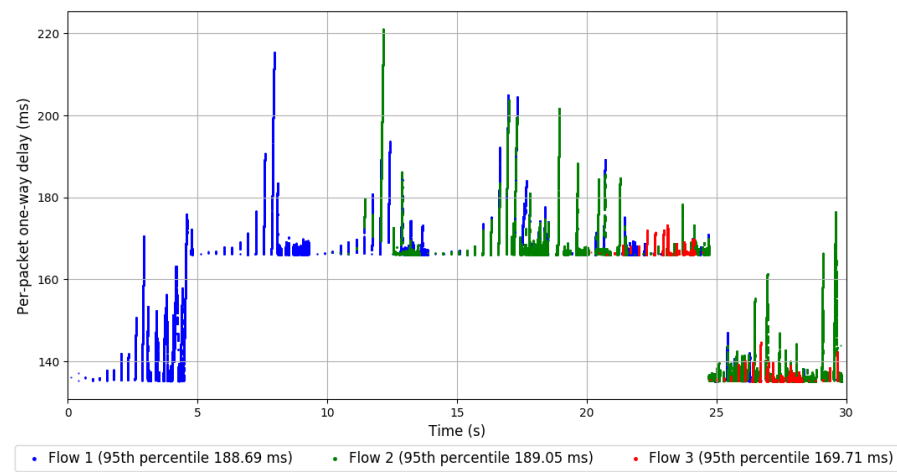
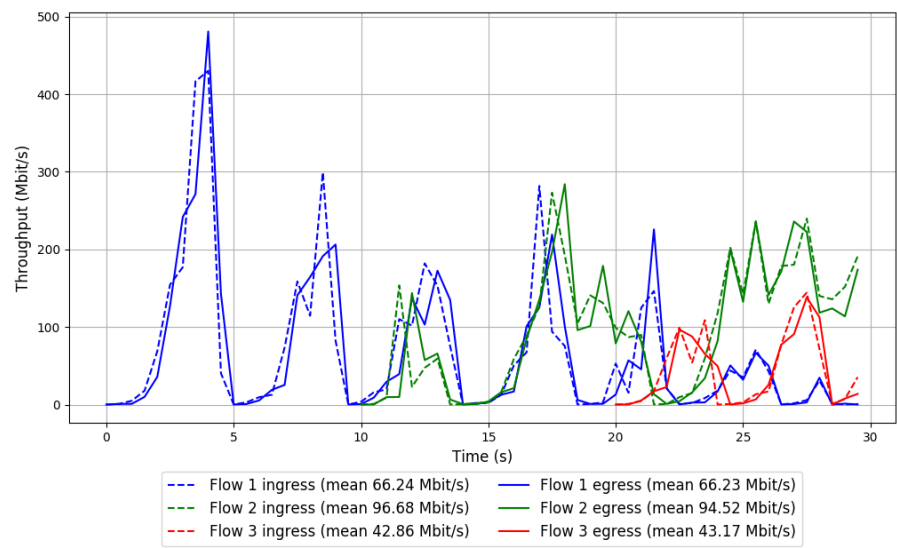
-- Flow 3:

Average throughput: 43.17 Mbit/s

95th percentile per-packet one-way delay: 169.706 ms

Loss rate: 2.59%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2017-12-01 10:51:59

End at: 2017-12-01 10:52:29

Below is generated by plot.py at 2017-12-01 13:58:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 295.50 Mbit/s

95th percentile per-packet one-way delay: 233.983 ms

Loss rate: 1.34%

-- Flow 1:

Average throughput: 141.79 Mbit/s

95th percentile per-packet one-way delay: 210.315 ms

Loss rate: 0.92%

-- Flow 2:

Average throughput: 202.24 Mbit/s

95th percentile per-packet one-way delay: 279.431 ms

Loss rate: 1.85%

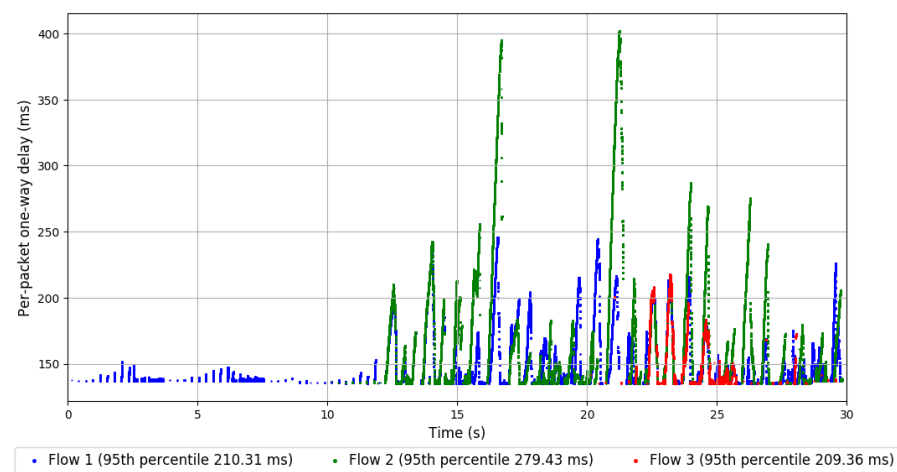
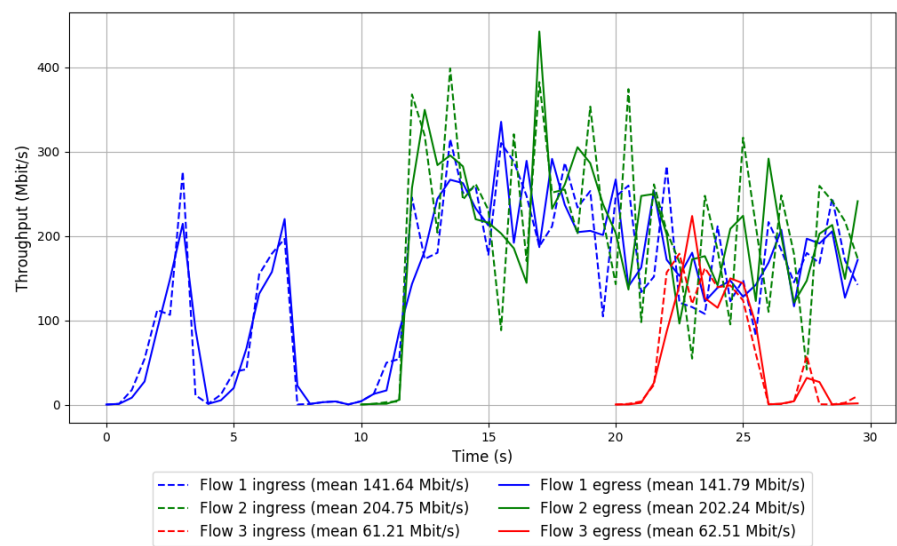
-- Flow 3:

Average throughput: 62.51 Mbit/s

95th percentile per-packet one-way delay: 209.360 ms

Loss rate: 0.86%

Run 9: Report of Verus — Data Link

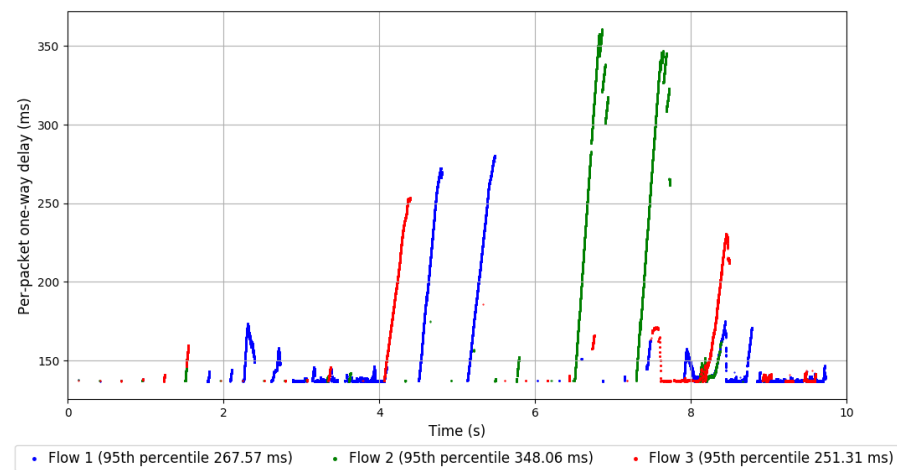
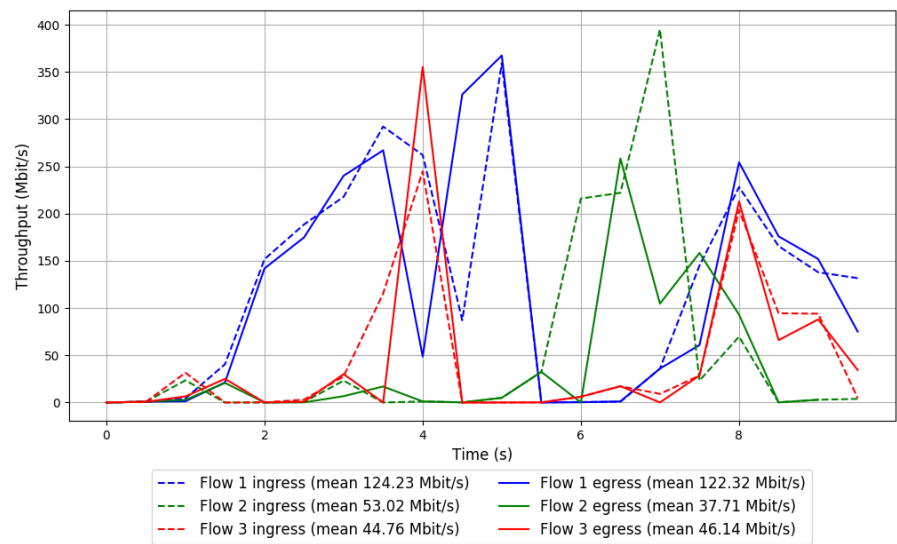


Run 10: Statistics of Verus

Start at: 2017-12-01 11:05:52

End at: 2017-12-01 11:06:22

Run 10: Report of Verus — Data Link

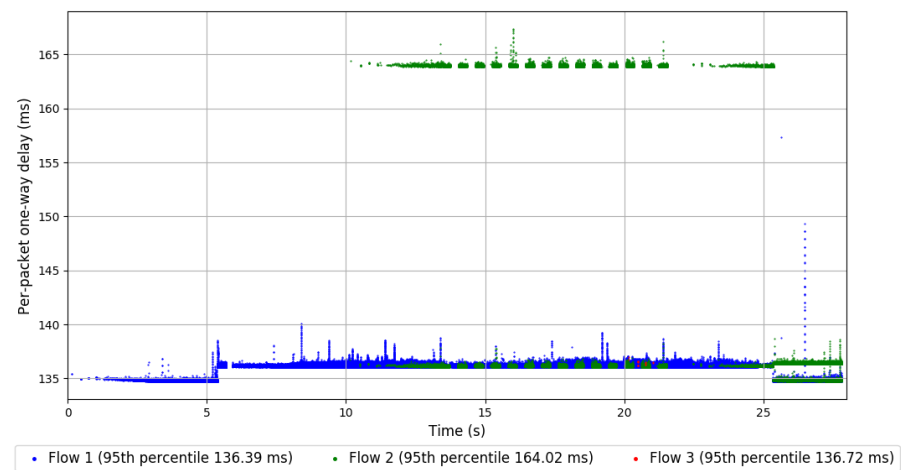
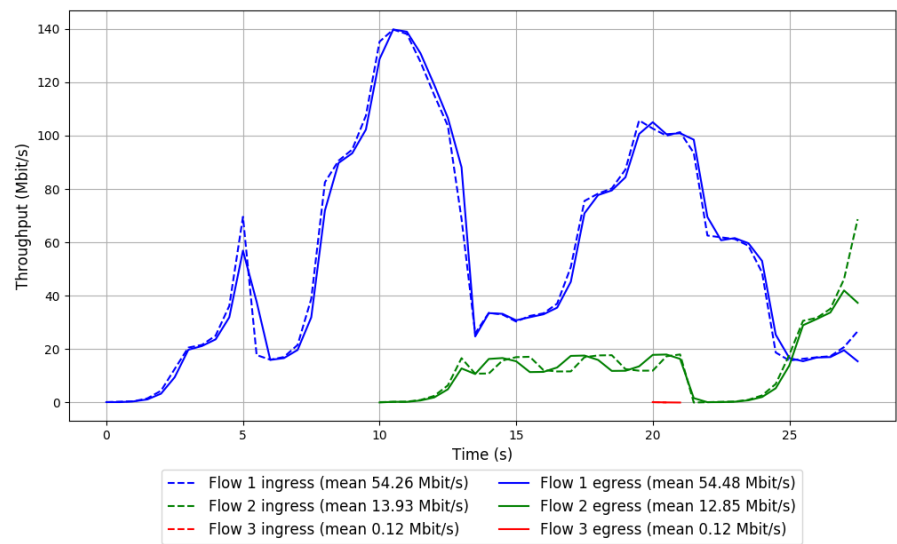


```
Run 1: Statistics of Copa

Start at: 2017-12-01 08:59:21
End at: 2017-12-01 08:59:51

# Below is generated by plot.py at 2017-12-01 13:58:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 62.69 Mbit/s
95th percentile per-packet one-way delay: 136.552 ms
Loss rate: 1.78%
-- Flow 1:
Average throughput: 54.48 Mbit/s
95th percentile per-packet one-way delay: 136.390 ms
Loss rate: 0.57%
-- Flow 2:
Average throughput: 12.85 Mbit/s
95th percentile per-packet one-way delay: 164.019 ms
Loss rate: 9.13%
-- Flow 3:
Average throughput: 0.12 Mbit/s
95th percentile per-packet one-way delay: 136.724 ms
Loss rate: 0.00%
```

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2017-12-01 09:13:25

End at: 2017-12-01 09:13:55

Below is generated by plot.py at 2017-12-01 13:58:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 123.32 Mbit/s

95th percentile per-packet one-way delay: 137.057 ms

Loss rate: 1.61%

-- Flow 1:

Average throughput: 68.68 Mbit/s

95th percentile per-packet one-way delay: 137.113 ms

Loss rate: 0.55%

-- Flow 2:

Average throughput: 59.01 Mbit/s

95th percentile per-packet one-way delay: 136.554 ms

Loss rate: 1.90%

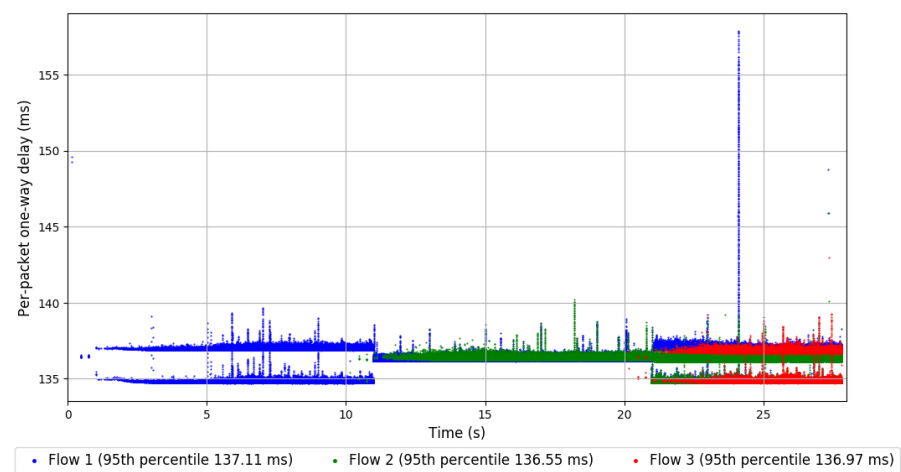
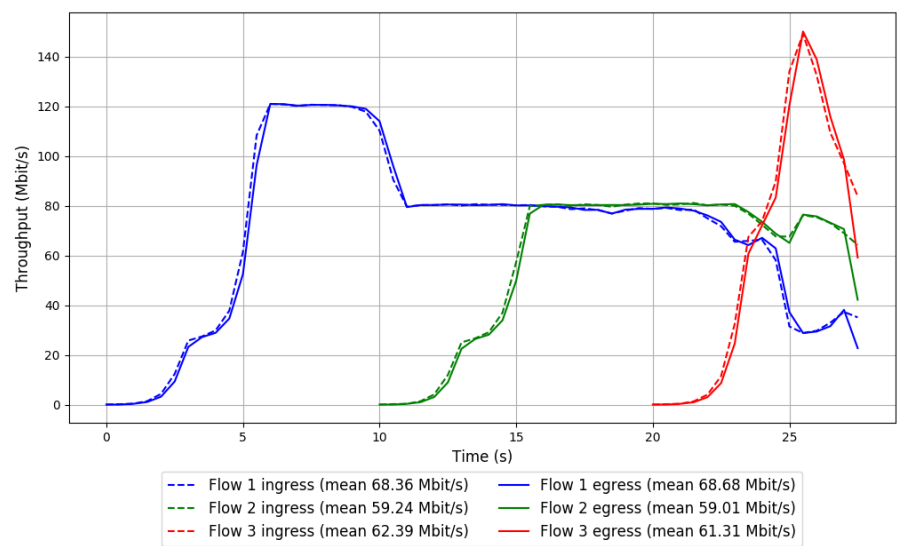
-- Flow 3:

Average throughput: 61.31 Mbit/s

95th percentile per-packet one-way delay: 136.967 ms

Loss rate: 5.08%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2017-12-01 09:27:00

End at: 2017-12-01 09:27:30

Below is generated by plot.py at 2017-12-01 13:58:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 37.91 Mbit/s

95th percentile per-packet one-way delay: 163.730 ms

Loss rate: 0.52%

-- Flow 1:

Average throughput: 31.93 Mbit/s

95th percentile per-packet one-way delay: 163.764 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 43.41 Mbit/s

95th percentile per-packet one-way delay: 136.506 ms

Loss rate: 0.18%

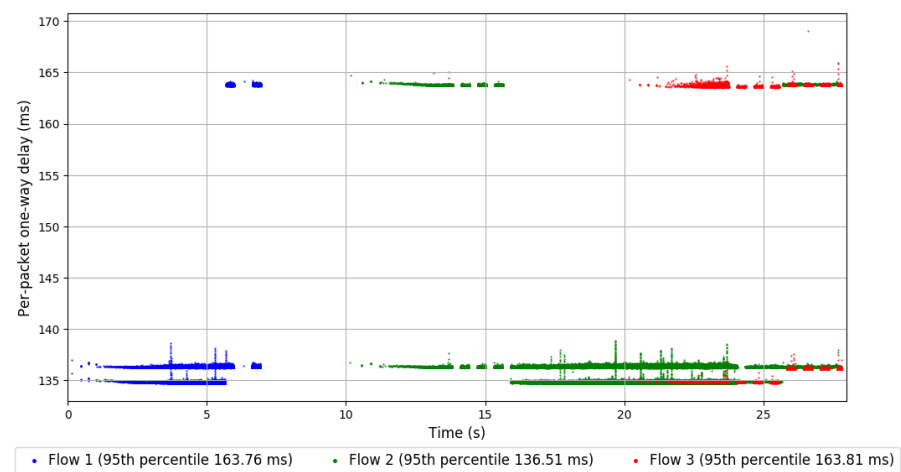
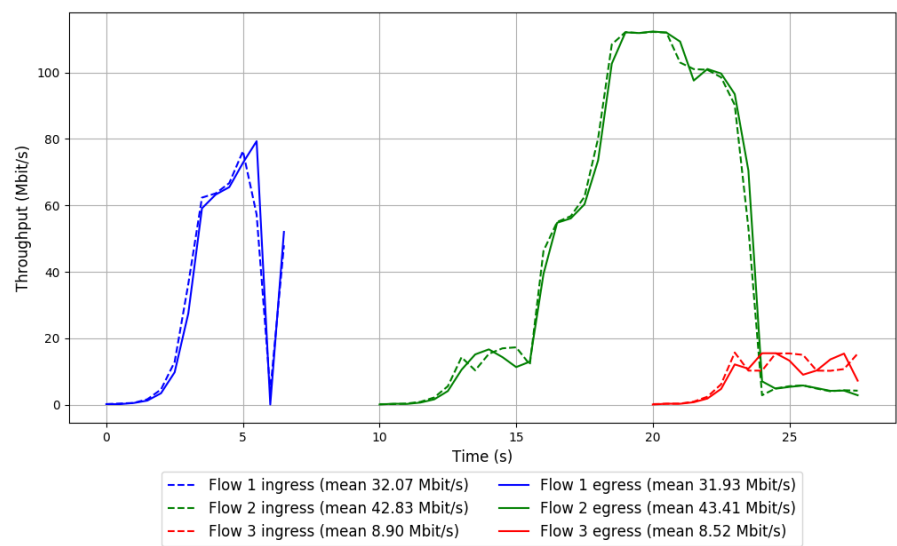
-- Flow 3:

Average throughput: 8.52 Mbit/s

95th percentile per-packet one-way delay: 163.811 ms

Loss rate: 5.89%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2017-12-01 09:40:53

End at: 2017-12-01 09:41:23

Below is generated by plot.py at 2017-12-01 13:58:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 80.08 Mbit/s

95th percentile per-packet one-way delay: 137.007 ms

Loss rate: 2.75%

-- Flow 1:

Average throughput: 23.37 Mbit/s

95th percentile per-packet one-way delay: 136.385 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 63.04 Mbit/s

95th percentile per-packet one-way delay: 137.052 ms

Loss rate: 1.60%

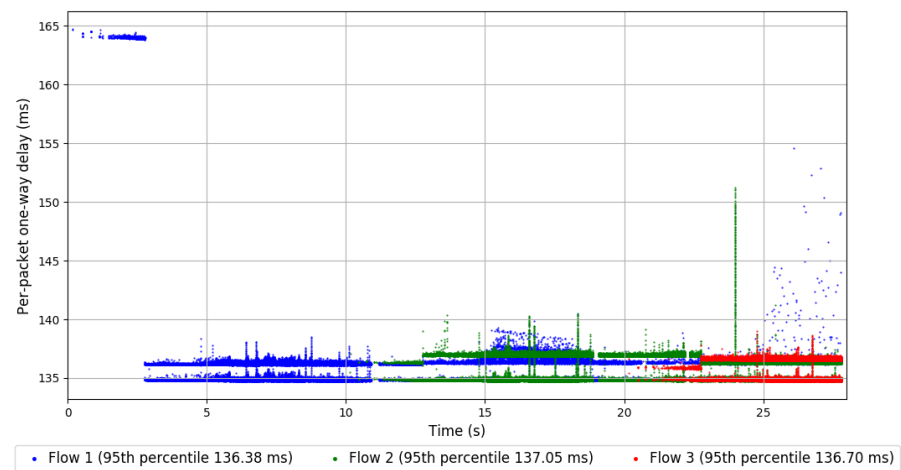
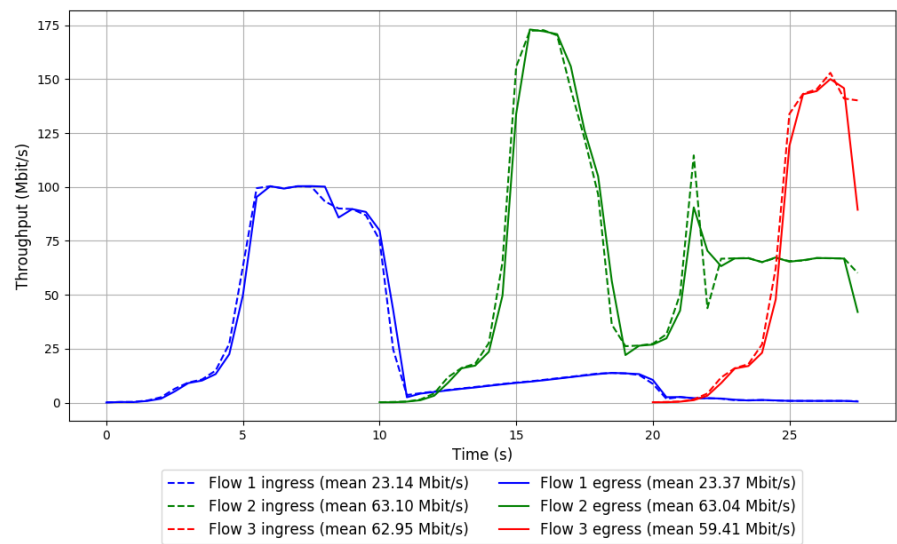
-- Flow 3:

Average throughput: 59.41 Mbit/s

95th percentile per-packet one-way delay: 136.702 ms

Loss rate: 8.86%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2017-12-01 09:54:34

End at: 2017-12-01 09:55:04

Below is generated by plot.py at 2017-12-01 13:58:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 40.30 Mbit/s

95th percentile per-packet one-way delay: 165.181 ms

Loss rate: 0.57%

-- Flow 1:

Average throughput: 34.59 Mbit/s

95th percentile per-packet one-way delay: 163.893 ms

Loss rate: 0.27%

-- Flow 2:

Average throughput: 6.02 Mbit/s

95th percentile per-packet one-way delay: 166.054 ms

Loss rate: 1.15%

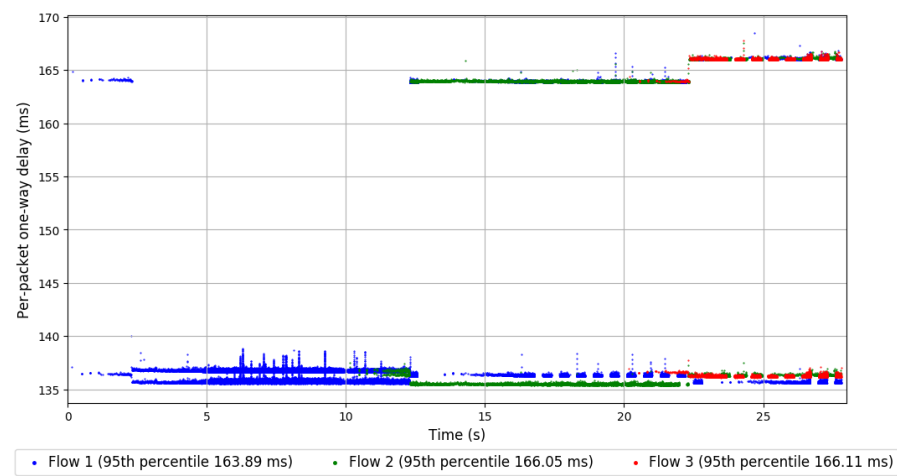
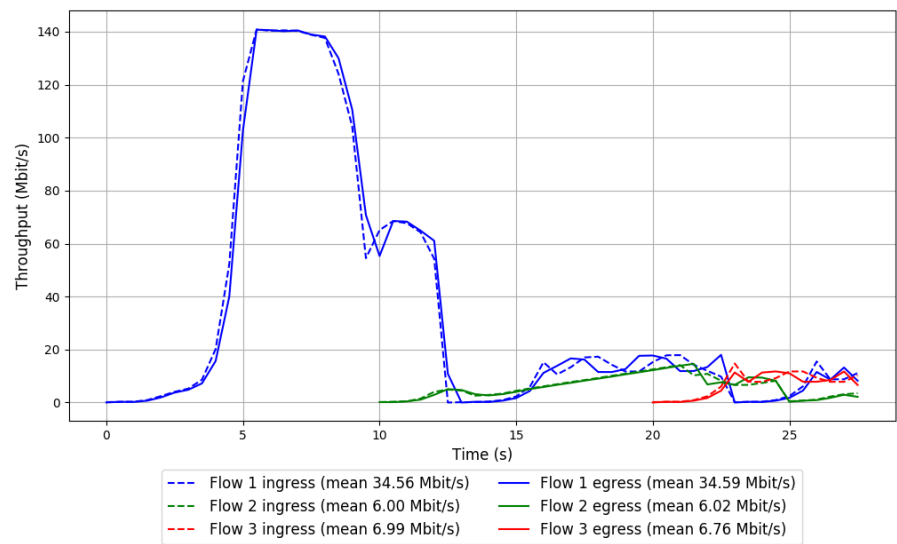
-- Flow 3:

Average throughput: 6.76 Mbit/s

95th percentile per-packet one-way delay: 166.114 ms

Loss rate: 4.73%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2017-12-01 10:07:50

End at: 2017-12-01 10:08:20

Below is generated by plot.py at 2017-12-01 13:58:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 8.39 Mbit/s

95th percentile per-packet one-way delay: 166.135 ms

Loss rate: 3.01%

-- Flow 1:

Average throughput: 0.12 Mbit/s

95th percentile per-packet one-way delay: 166.289 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 9.33 Mbit/s

95th percentile per-packet one-way delay: 166.133 ms

Loss rate: 2.01%

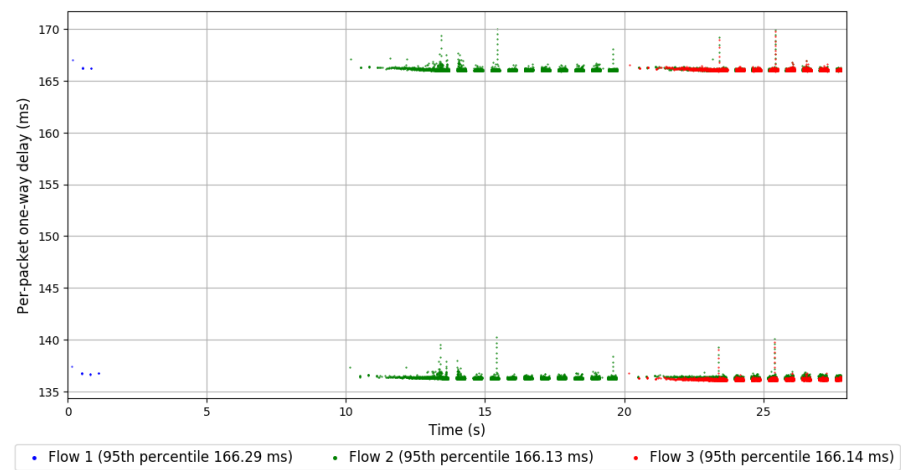
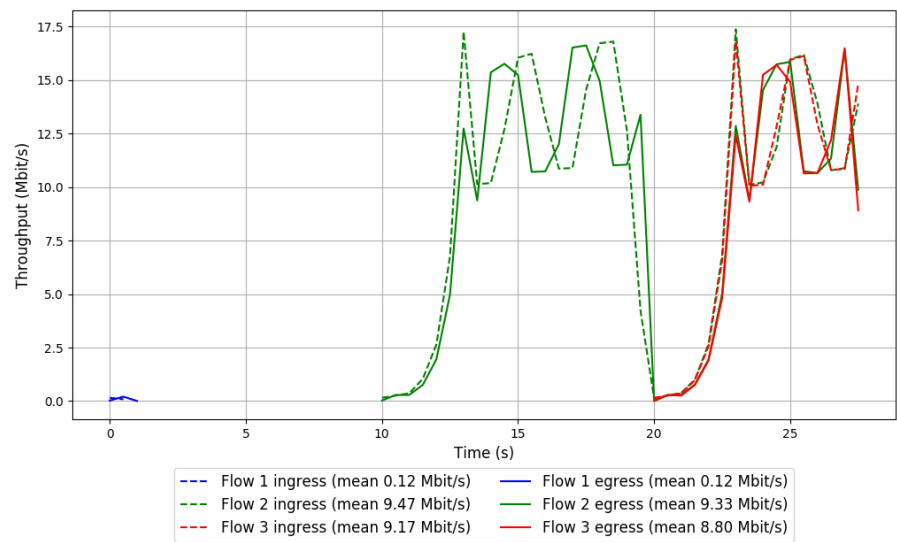
-- Flow 3:

Average throughput: 8.80 Mbit/s

95th percentile per-packet one-way delay: 166.140 ms

Loss rate: 5.40%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2017-12-01 10:21:13

End at: 2017-12-01 10:21:43

Below is generated by plot.py at 2017-12-01 13:58:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 16.37 Mbit/s

95th percentile per-packet one-way delay: 166.149 ms

Loss rate: 2.64%

-- Flow 1:

Average throughput: 8.63 Mbit/s

95th percentile per-packet one-way delay: 166.149 ms

Loss rate: 1.44%

-- Flow 2:

Average throughput: 8.60 Mbit/s

95th percentile per-packet one-way delay: 166.142 ms

Loss rate: 2.76%

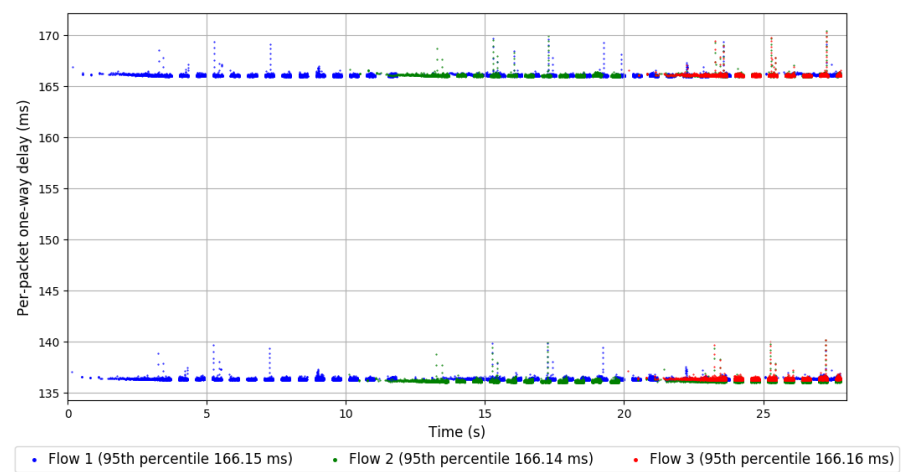
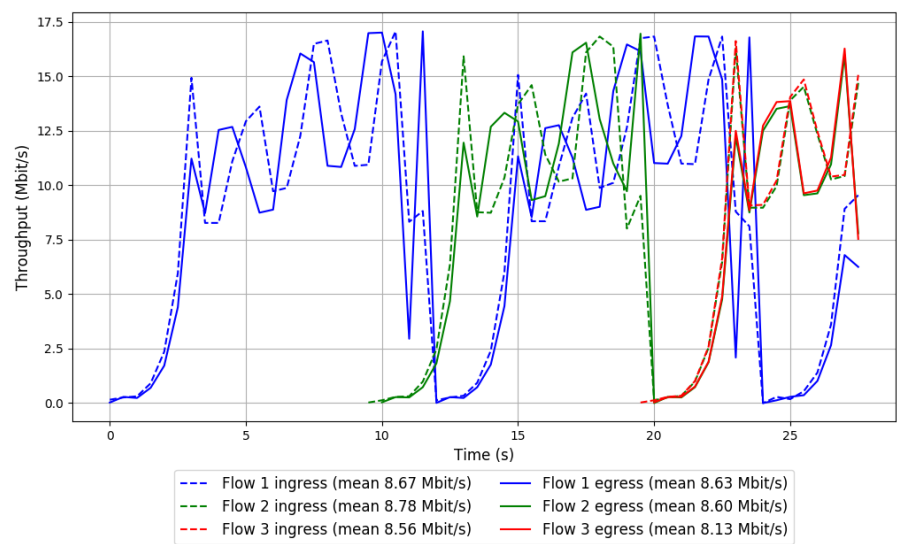
-- Flow 3:

Average throughput: 8.13 Mbit/s

95th percentile per-packet one-way delay: 166.162 ms

Loss rate: 6.73%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2017-12-01 10:34:34

End at: 2017-12-01 10:35:04

Below is generated by plot.py at 2017-12-01 13:58:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 57.85 Mbit/s

95th percentile per-packet one-way delay: 136.527 ms

Loss rate: 2.09%

-- Flow 1:

Average throughput: 10.24 Mbit/s

95th percentile per-packet one-way delay: 166.116 ms

Loss rate: 0.78%

-- Flow 2:

Average throughput: 65.34 Mbit/s

95th percentile per-packet one-way delay: 136.174 ms

Loss rate: 0.28%

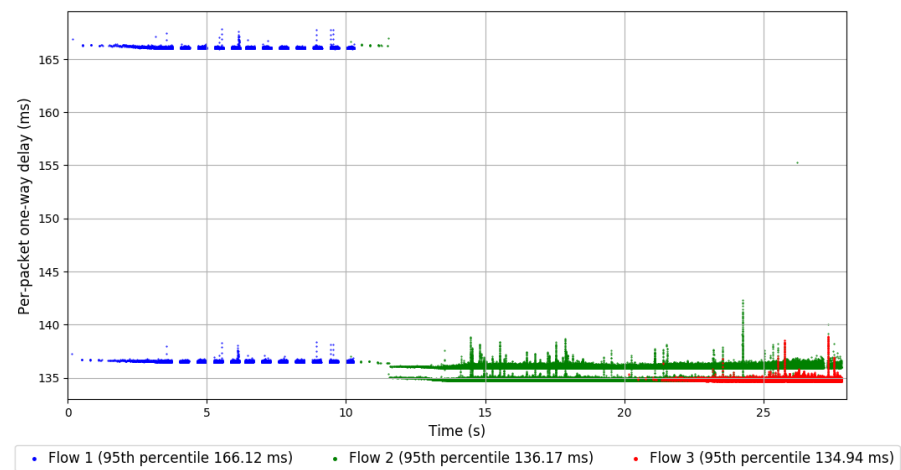
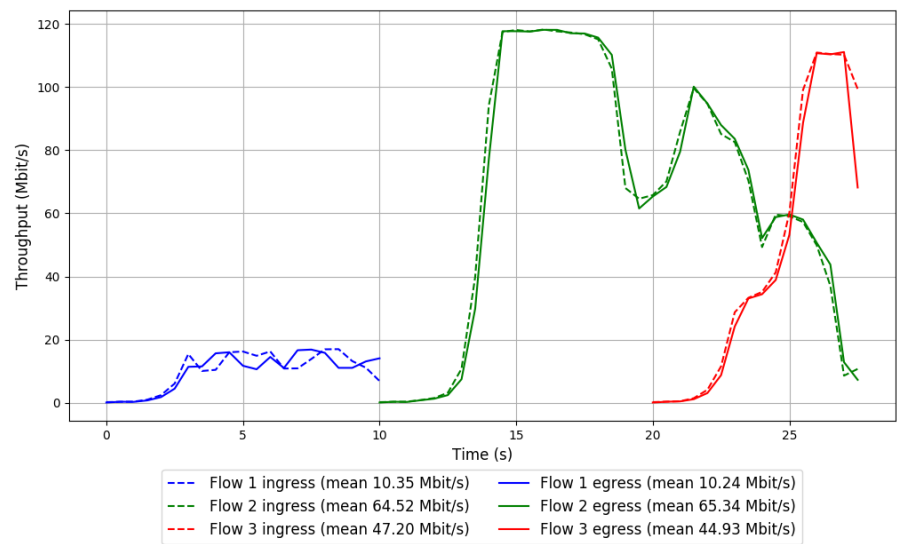
-- Flow 3:

Average throughput: 44.93 Mbit/s

95th percentile per-packet one-way delay: 134.944 ms

Loss rate: 8.08%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2017-12-01 10:47:43

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

Below is generated by plot.py at 2017-12-01 13:58:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.92 Mbit/s

95th percentile per-packet one-way delay: 137.074 ms

Loss rate: 1.71%

-- Flow 1:

Average throughput: 46.19 Mbit/s

95th percentile per-packet one-way delay: 137.081 ms

Loss rate: 0.99%

-- Flow 2:

Average throughput: 71.04 Mbit/s

95th percentile per-packet one-way delay: 137.074 ms

Loss rate: 1.71%

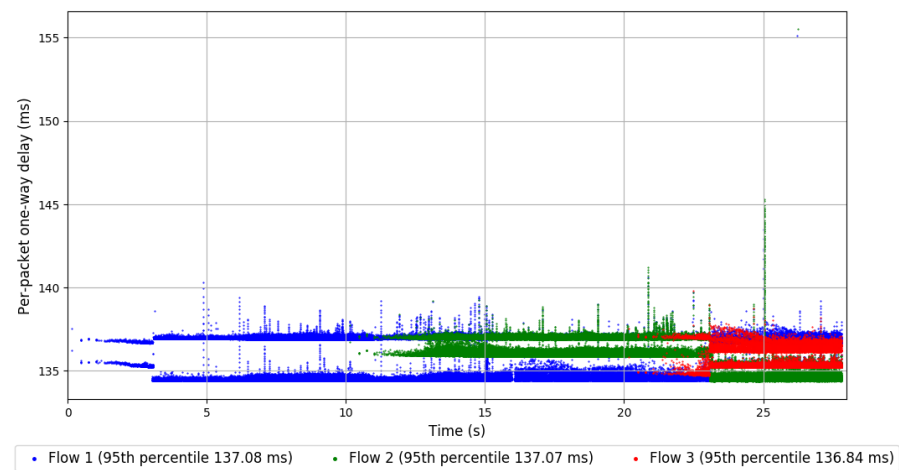
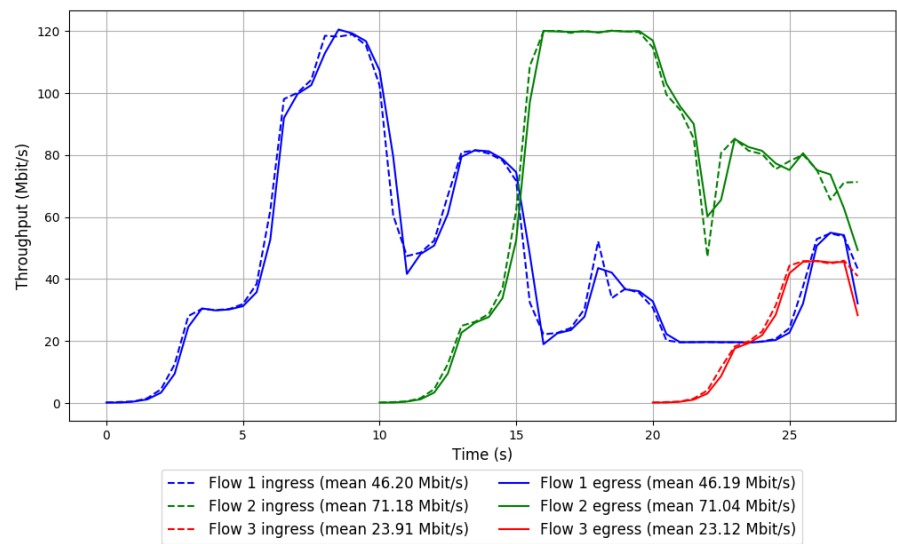
-- Flow 3:

Average throughput: 23.12 Mbit/s

95th percentile per-packet one-way delay: 136.839 ms

Loss rate: 6.62%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2017-12-01 11:01:34

End at: 2017-12-01 11:02:04

Below is generated by plot.py at 2017-12-01 13:58:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.10 Mbit/s

95th percentile per-packet one-way delay: 137.051 ms

Loss rate: 1.28%

-- Flow 1:

Average throughput: 66.82 Mbit/s

95th percentile per-packet one-way delay: 136.992 ms

Loss rate: 0.51%

-- Flow 2:

Average throughput: 47.55 Mbit/s

95th percentile per-packet one-way delay: 137.106 ms

Loss rate: 2.92%

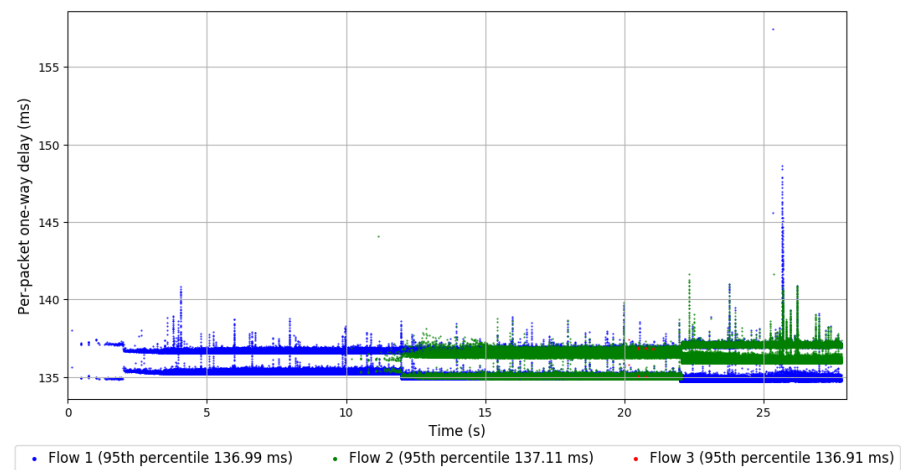
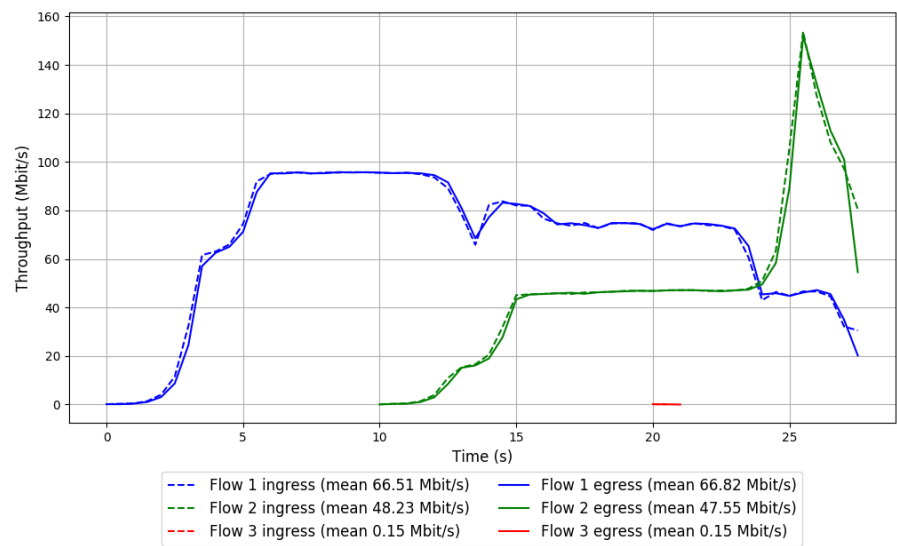
-- Flow 3:

Average throughput: 0.15 Mbit/s

95th percentile per-packet one-way delay: 136.907 ms

Loss rate: 0.00%

Run 10: Report of Copa — Data Link

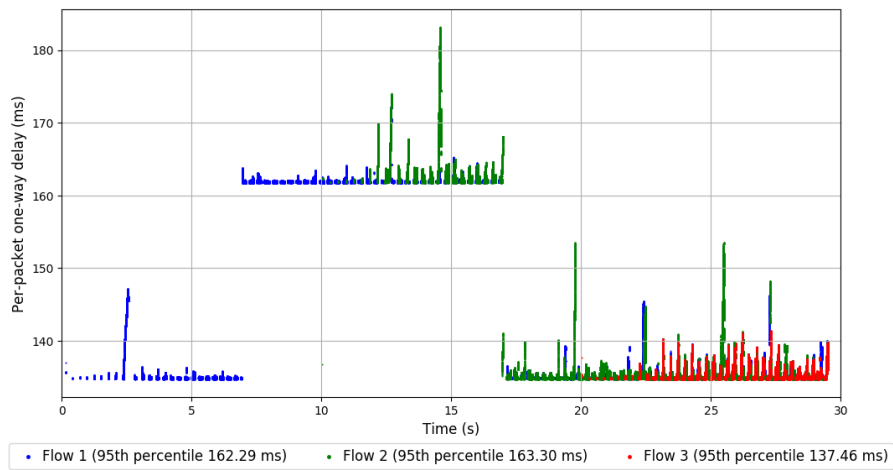
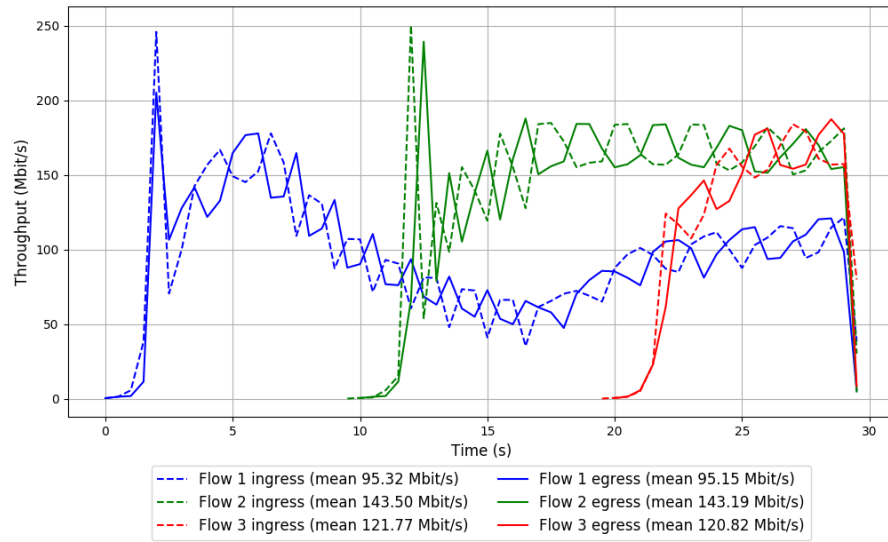


```
Run 1: Statistics of Indigo

Start at: 2017-12-01 08:51:51
End at: 2017-12-01 08:52:21

# Below is generated by plot.py at 2017-12-01 13:59:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 229.16 Mbit/s
95th percentile per-packet one-way delay: 162.551 ms
Loss rate: 1.73%
-- Flow 1:
Average throughput: 95.15 Mbit/s
95th percentile per-packet one-way delay: 162.291 ms
Loss rate: 1.11%
-- Flow 2:
Average throughput: 143.19 Mbit/s
95th percentile per-packet one-way delay: 163.298 ms
Loss rate: 1.60%
-- Flow 3:
Average throughput: 120.82 Mbit/s
95th percentile per-packet one-way delay: 137.462 ms
Loss rate: 3.51%
```


Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2017-12-01 09:05:31

End at: 2017-12-01 09:06:01

Below is generated by plot.py at 2017-12-01 14:01:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 279.92 Mbit/s

95th percentile per-packet one-way delay: 162.073 ms

Loss rate: 1.01%

-- Flow 1:

Average throughput: 150.86 Mbit/s

95th percentile per-packet one-way delay: 161.876 ms

Loss rate: 0.61%

-- Flow 2:

Average throughput: 143.99 Mbit/s

95th percentile per-packet one-way delay: 162.170 ms

Loss rate: 1.02%

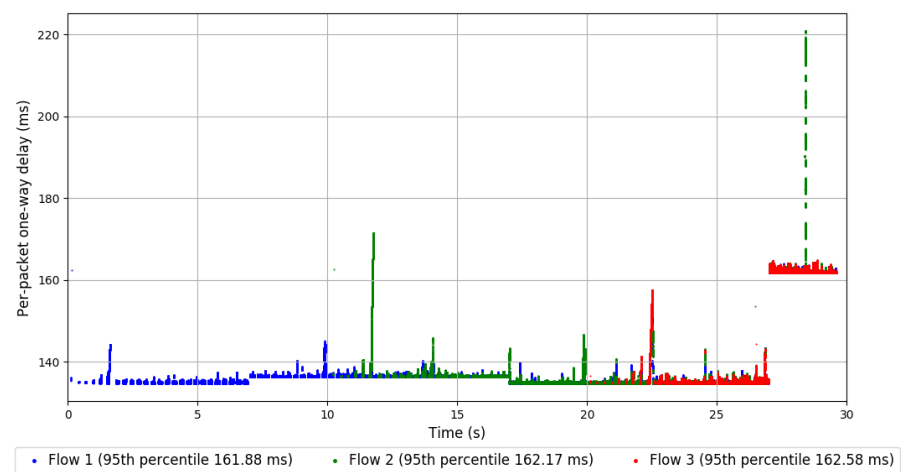
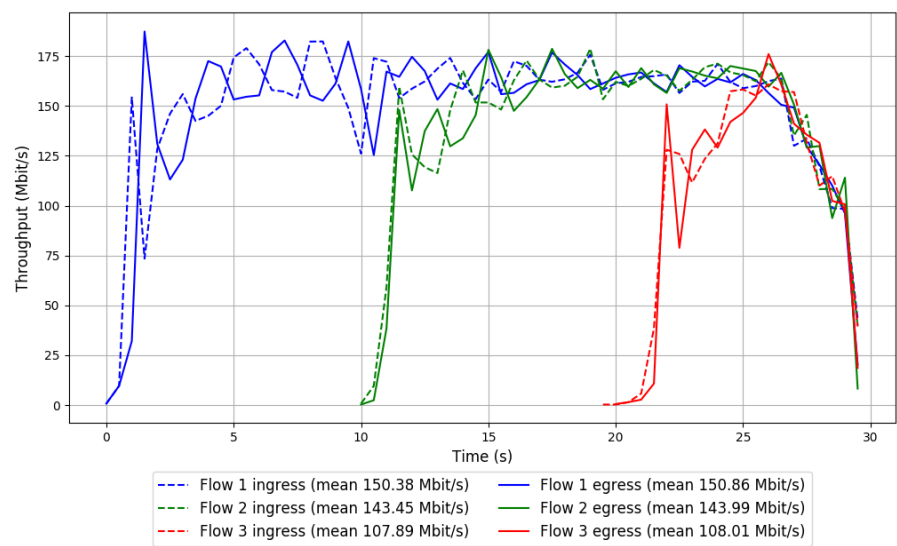
-- Flow 3:

Average throughput: 108.01 Mbit/s

95th percentile per-packet one-way delay: 162.582 ms

Loss rate: 2.64%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2017-12-01 09:19:31

End at: 2017-12-01 09:20:01

Below is generated by plot.py at 2017-12-01 14:02:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 281.34 Mbit/s

95th percentile per-packet one-way delay: 137.063 ms

Loss rate: 1.81%

-- Flow 1:

Average throughput: 150.30 Mbit/s

95th percentile per-packet one-way delay: 136.686 ms

Loss rate: 1.33%

-- Flow 2:

Average throughput: 142.94 Mbit/s

95th percentile per-packet one-way delay: 137.242 ms

Loss rate: 1.71%

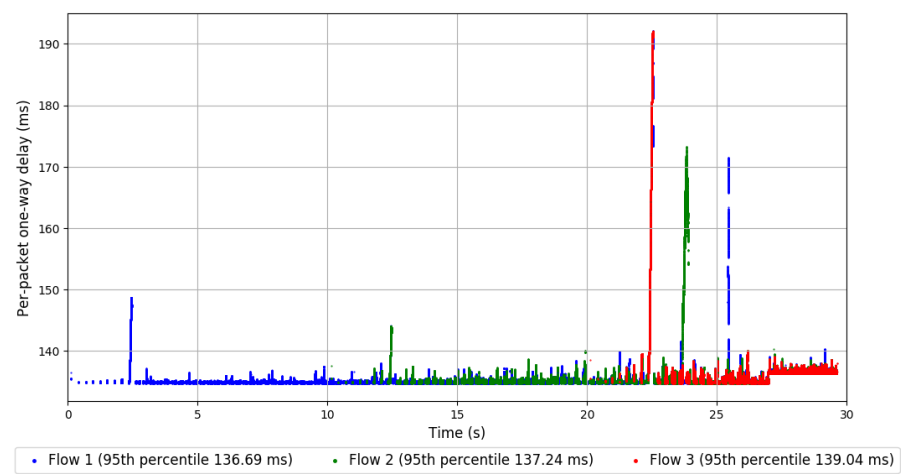
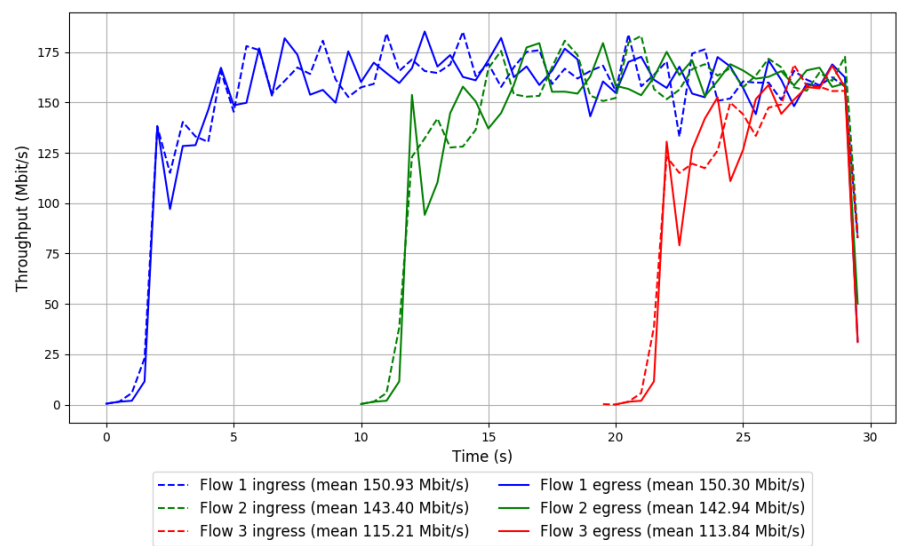
-- Flow 3:

Average throughput: 113.84 Mbit/s

95th percentile per-packet one-way delay: 139.042 ms

Loss rate: 3.95%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2017-12-01 09:33:12

End at: 2017-12-01 09:33:42

Below is generated by plot.py at 2017-12-01 14:02:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 265.75 Mbit/s

95th percentile per-packet one-way delay: 138.508 ms

Loss rate: 1.62%

-- Flow 1:

Average throughput: 147.66 Mbit/s

95th percentile per-packet one-way delay: 137.625 ms

Loss rate: 1.00%

-- Flow 2:

Average throughput: 127.96 Mbit/s

95th percentile per-packet one-way delay: 139.899 ms

Loss rate: 1.55%

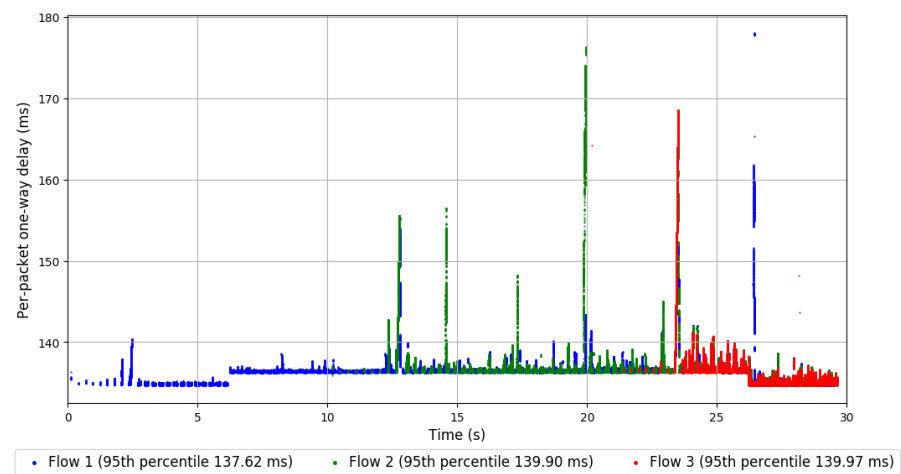
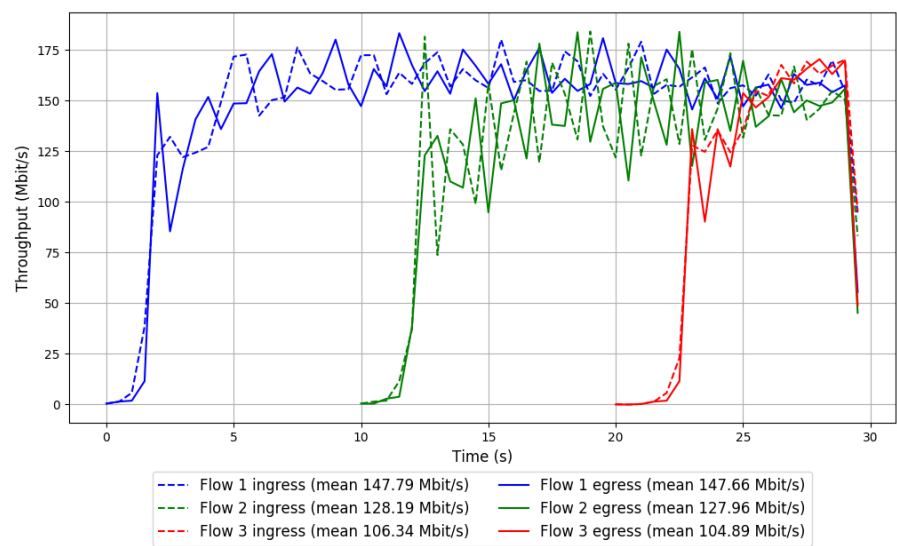
-- Flow 3:

Average throughput: 104.89 Mbit/s

95th percentile per-packet one-way delay: 139.973 ms

Loss rate: 4.39%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2017-12-01 09:47:04

End at: 2017-12-01 09:47:34

Below is generated by plot.py at 2017-12-01 14:02:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 258.80 Mbit/s

95th percentile per-packet one-way delay: 170.067 ms

Loss rate: 1.66%

-- Flow 1:

Average throughput: 139.88 Mbit/s

95th percentile per-packet one-way delay: 169.578 ms

Loss rate: 1.09%

-- Flow 2:

Average throughput: 130.19 Mbit/s

95th percentile per-packet one-way delay: 169.262 ms

Loss rate: 1.44%

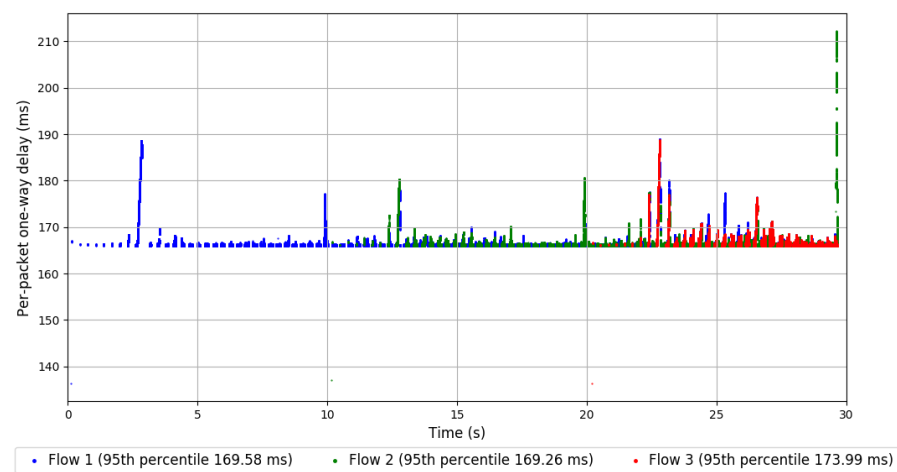
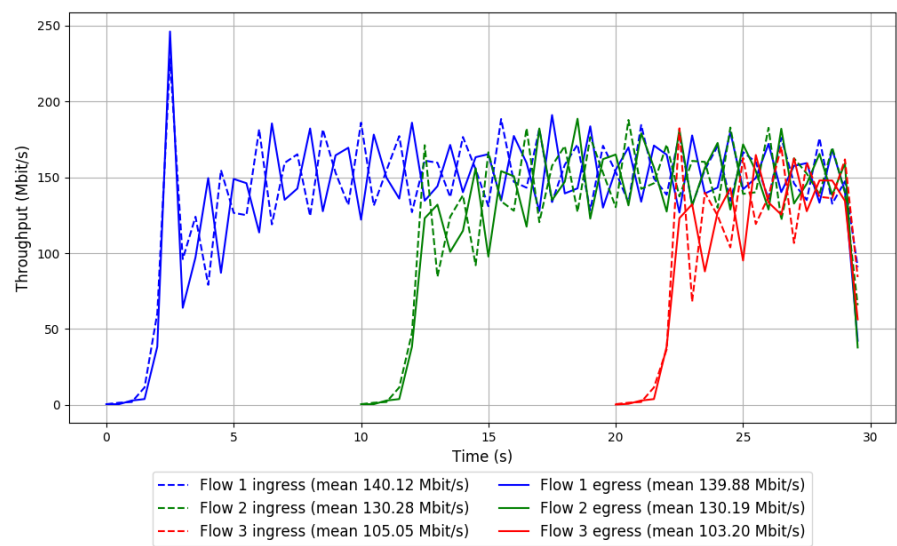
-- Flow 3:

Average throughput: 103.20 Mbit/s

95th percentile per-packet one-way delay: 173.989 ms

Loss rate: 4.49%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2017-12-01 10:00:22

End at: 2017-12-01 10:00:52

Below is generated by plot.py at 2017-12-01 14:03:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 245.98 Mbit/s

95th percentile per-packet one-way delay: 166.708 ms

Loss rate: 1.80%

-- Flow 1:

Average throughput: 128.20 Mbit/s

95th percentile per-packet one-way delay: 166.539 ms

Loss rate: 1.14%

-- Flow 2:

Average throughput: 125.43 Mbit/s

95th percentile per-packet one-way delay: 166.794 ms

Loss rate: 1.76%

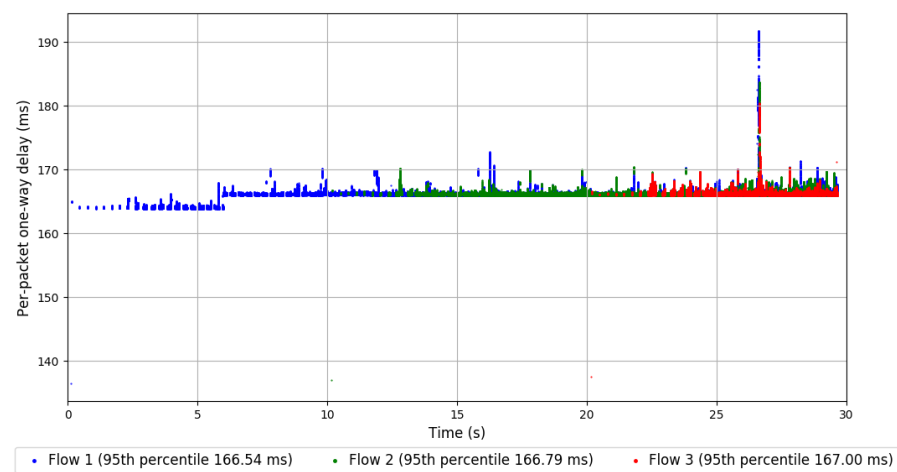
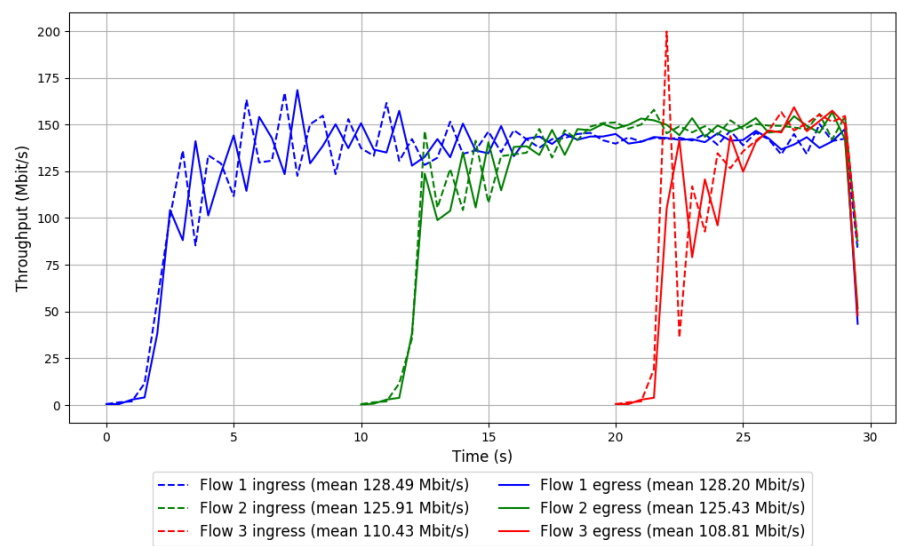
-- Flow 3:

Average throughput: 108.81 Mbit/s

95th percentile per-packet one-way delay: 167.001 ms

Loss rate: 4.23%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2017-12-01 10:13:39

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

Below is generated by plot.py at 2017-12-01 14:03:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 251.65 Mbit/s

95th percentile per-packet one-way delay: 166.218 ms

Loss rate: 1.52%

-- Flow 1:

Average throughput: 133.03 Mbit/s

95th percentile per-packet one-way delay: 166.237 ms

Loss rate: 0.95%

-- Flow 2:

Average throughput: 125.86 Mbit/s

95th percentile per-packet one-way delay: 166.255 ms

Loss rate: 1.50%

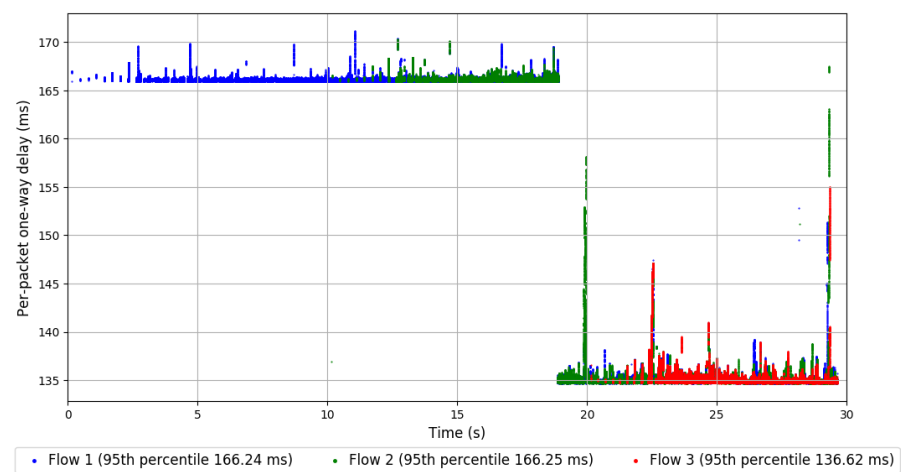
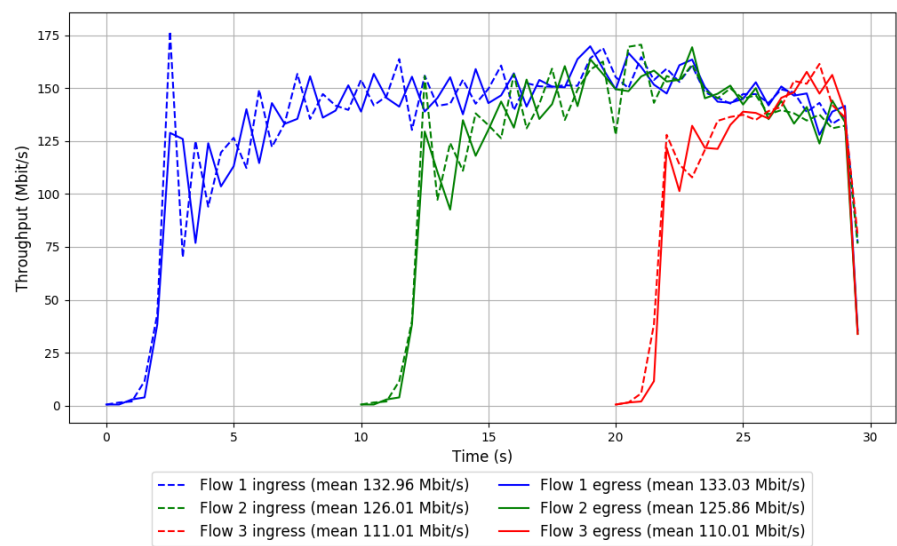
-- Flow 3:

Average throughput: 110.01 Mbit/s

95th percentile per-packet one-way delay: 136.624 ms

Loss rate: 3.65%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2017-12-01 10:27:10

End at: 2017-12-01 10:27:40

Below is generated by plot.py at 2017-12-01 14:04:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 283.98 Mbit/s

95th percentile per-packet one-way delay: 137.575 ms

Loss rate: 1.55%

-- Flow 1:

Average throughput: 150.77 Mbit/s

95th percentile per-packet one-way delay: 137.067 ms

Loss rate: 0.95%

-- Flow 2:

Average throughput: 141.24 Mbit/s

95th percentile per-packet one-way delay: 137.497 ms

Loss rate: 1.59%

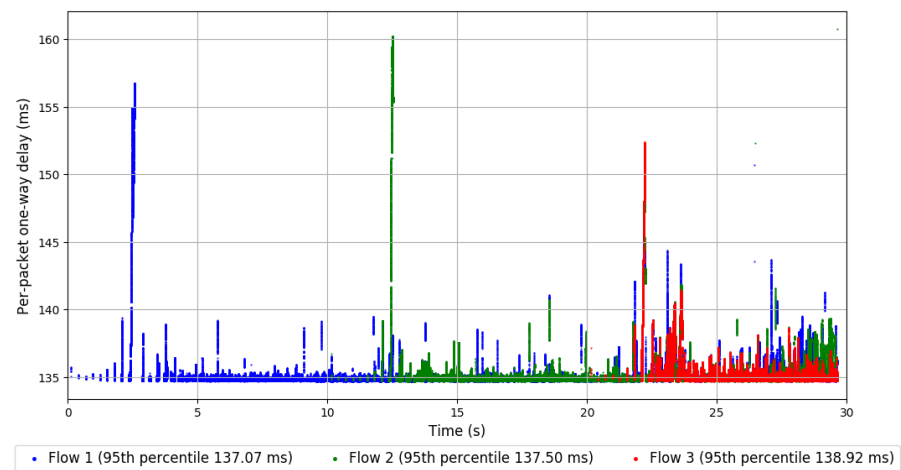
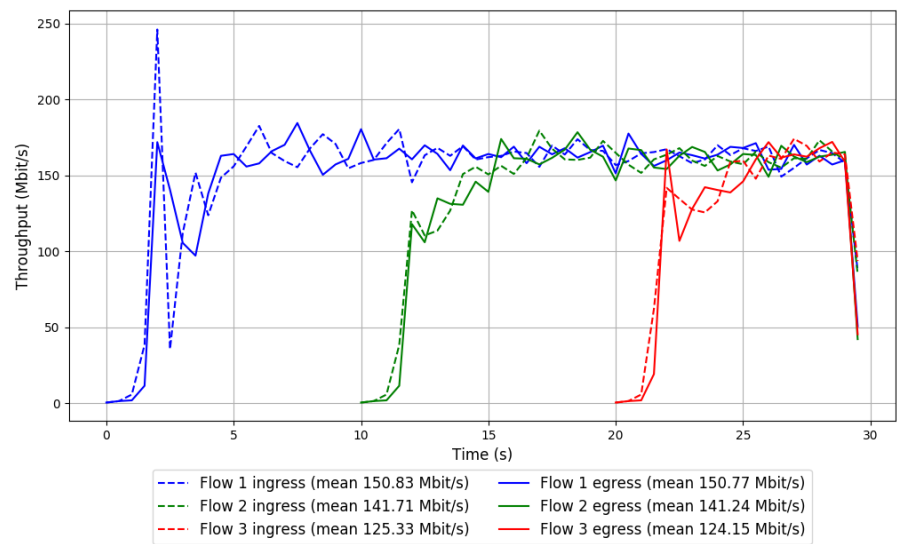
-- Flow 3:

Average throughput: 124.15 Mbit/s

95th percentile per-packet one-way delay: 138.921 ms

Loss rate: 3.71%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2017-12-01 10:40:16

End at: 2017-12-01 10:40:46

Below is generated by plot.py at 2017-12-01 14:04:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 140.53 Mbit/s

95th percentile per-packet one-way delay: 166.461 ms

Loss rate: 1.38%

-- Flow 1:

Average throughput: 87.72 Mbit/s

95th percentile per-packet one-way delay: 166.246 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 33.02 Mbit/s

95th percentile per-packet one-way delay: 182.264 ms

Loss rate: 0.68%

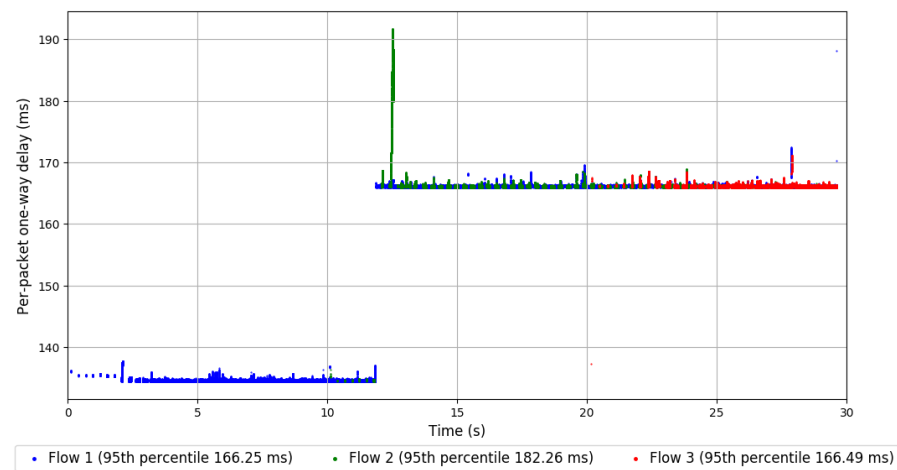
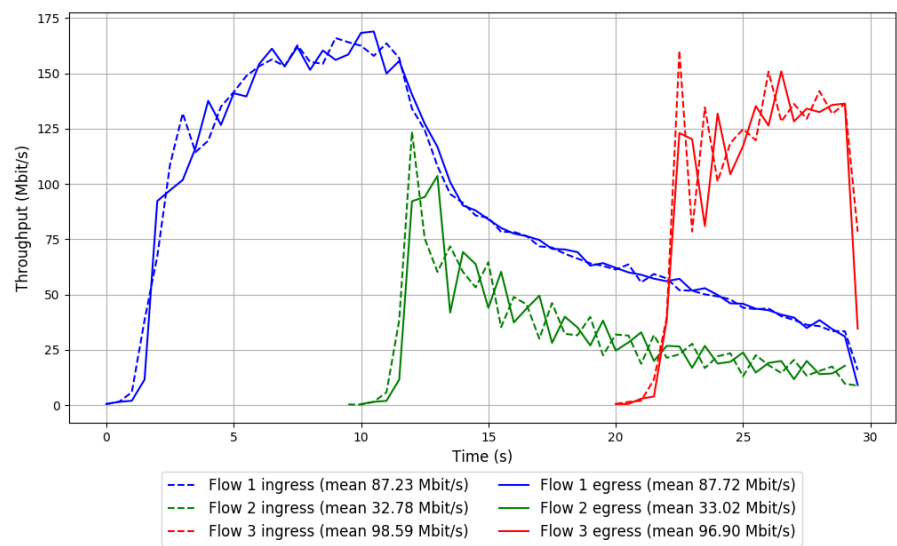
-- Flow 3:

Average throughput: 96.90 Mbit/s

95th percentile per-packet one-way delay: 166.485 ms

Loss rate: 4.55%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2017-12-01 10:54:06

End at: 2017-12-01 10:54:36

Below is generated by plot.py at 2017-12-01 14:06:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 270.06 Mbit/s

95th percentile per-packet one-way delay: 137.371 ms

Loss rate: 1.54%

-- Flow 1:

Average throughput: 143.10 Mbit/s

95th percentile per-packet one-way delay: 137.221 ms

Loss rate: 1.02%

-- Flow 2:

Average throughput: 134.79 Mbit/s

95th percentile per-packet one-way delay: 137.888 ms

Loss rate: 1.41%

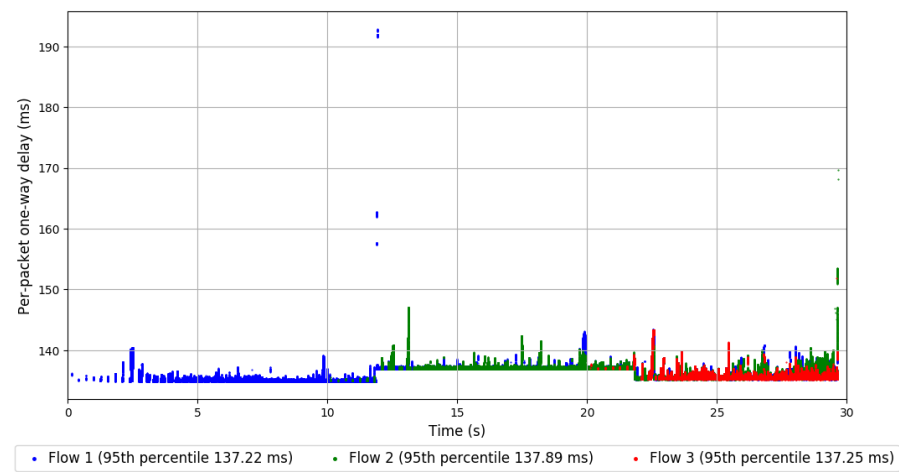
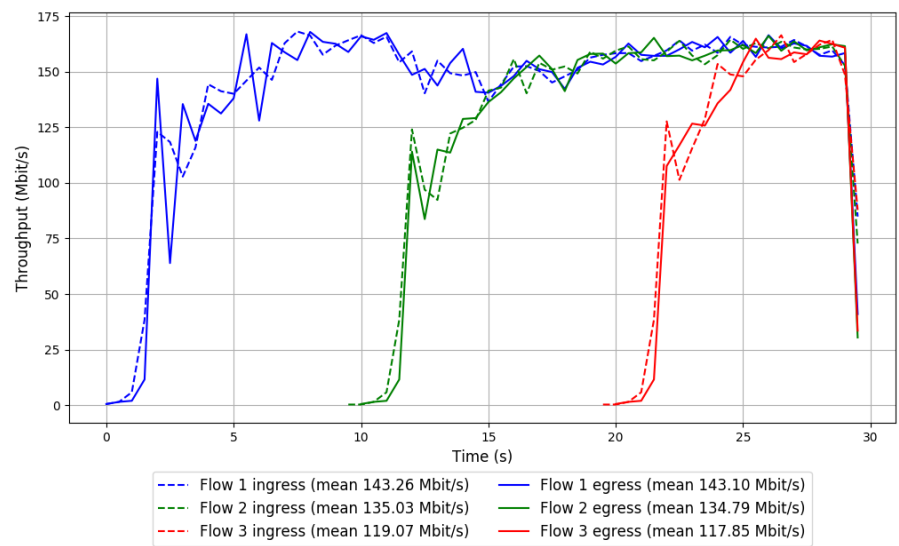
-- Flow 3:

Average throughput: 117.85 Mbit/s

95th percentile per-packet one-way delay: 137.254 ms

Loss rate: 3.78%

Run 10: Report of Indigo — Data Link

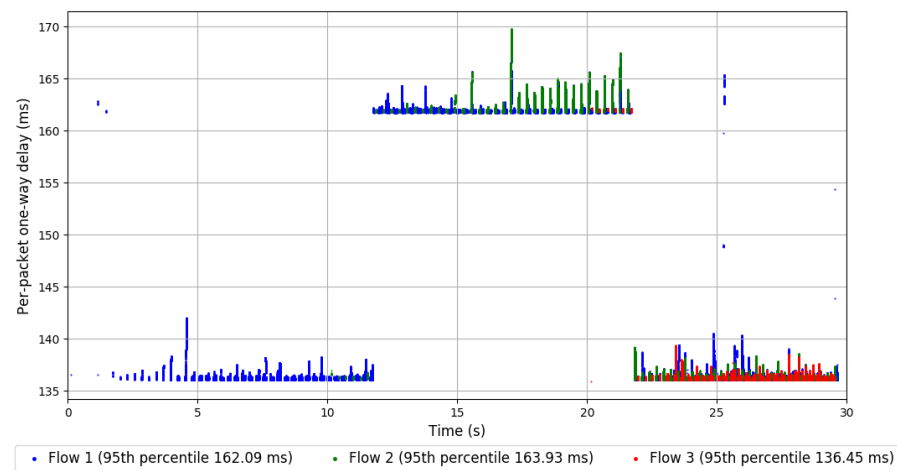
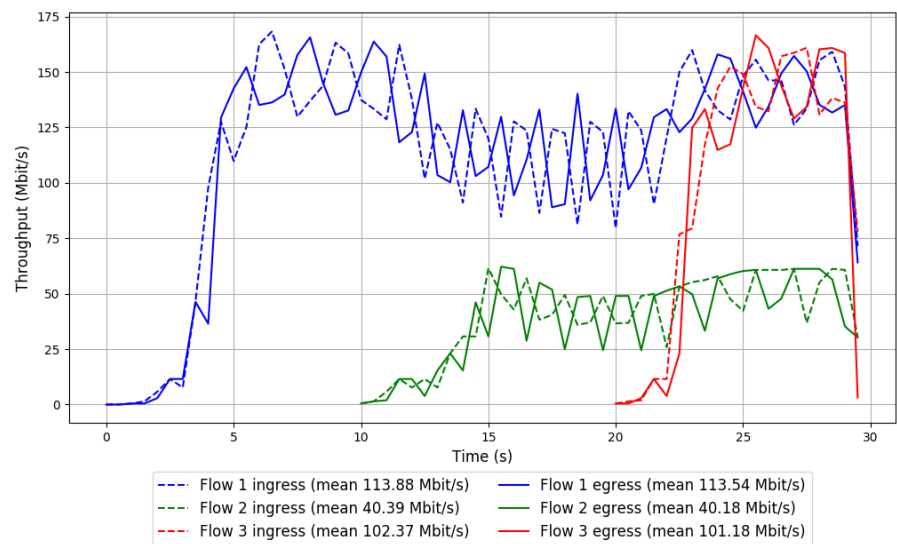


```
Run 1: Statistics of Indigo-calib

Start at: 2017-12-01 09:01:06
End at: 2017-12-01 09:01:36

# Below is generated by plot.py at 2017-12-01 14:06:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 172.05 Mbit/s
95th percentile per-packet one-way delay: 162.374 ms
Loss rate: 1.84%
-- Flow 1:
Average throughput: 113.54 Mbit/s
95th percentile per-packet one-way delay: 162.095 ms
Loss rate: 1.21%
-- Flow 2:
Average throughput: 40.18 Mbit/s
95th percentile per-packet one-way delay: 163.934 ms
Loss rate: 1.92%
-- Flow 3:
Average throughput: 101.18 Mbit/s
95th percentile per-packet one-way delay: 136.453 ms
Loss rate: 3.96%
```

Run 1: Report of Indigo-calib — Data Link

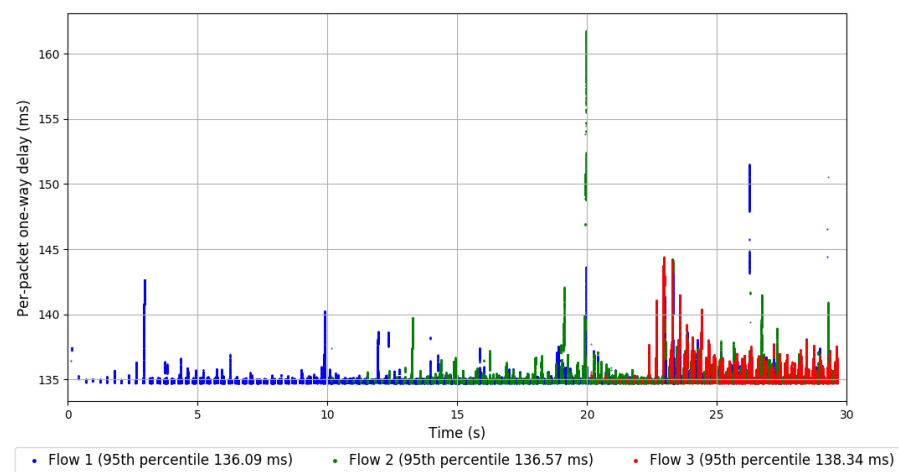
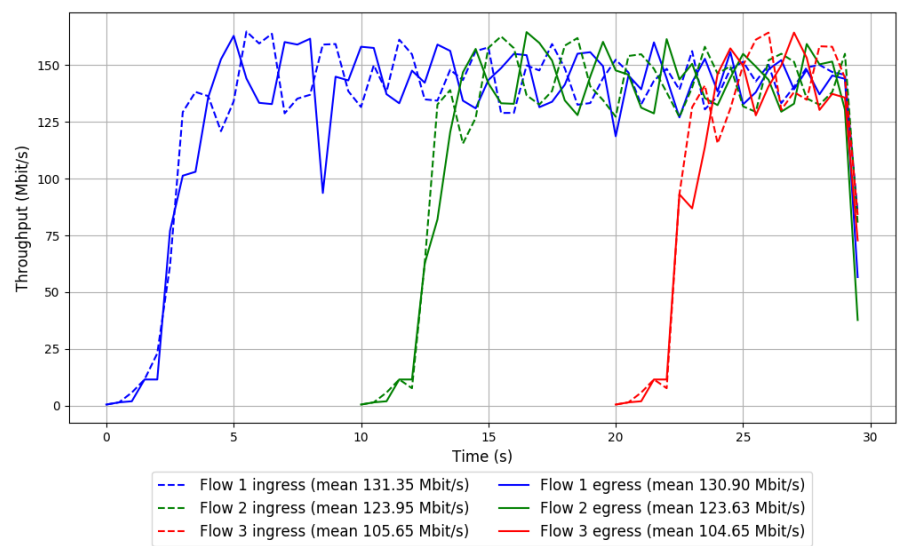


```
Run 2: Statistics of Indigo-calib

Start at: 2017-12-01 09:15:18
End at: 2017-12-01 09:15:48

# Below is generated by plot.py at 2017-12-01 14:06:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 246.08 Mbit/s
95th percentile per-packet one-way delay: 136.579 ms
Loss rate: 1.72%
-- Flow 1:
Average throughput: 130.90 Mbit/s
95th percentile per-packet one-way delay: 136.094 ms
Loss rate: 1.25%
-- Flow 2:
Average throughput: 123.63 Mbit/s
95th percentile per-packet one-way delay: 136.570 ms
Loss rate: 1.64%
-- Flow 3:
Average throughput: 104.65 Mbit/s
95th percentile per-packet one-way delay: 138.345 ms
Loss rate: 3.71%
```

Run 2: Report of Indigo-calib — Data Link

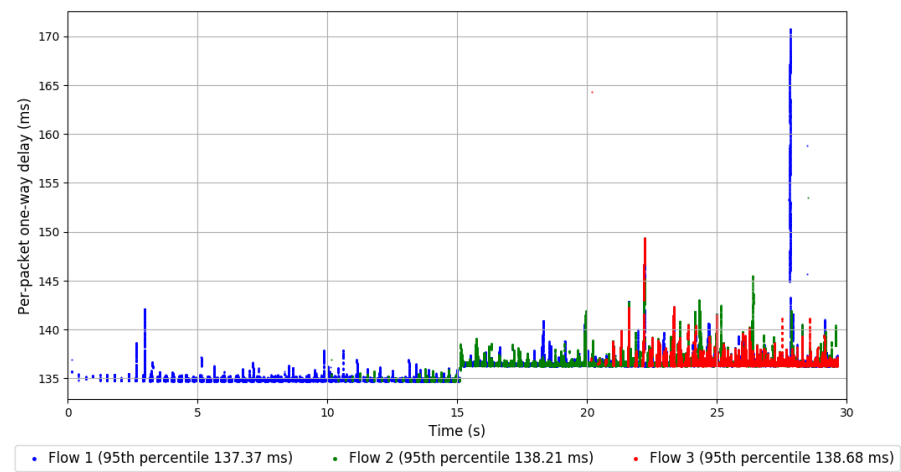
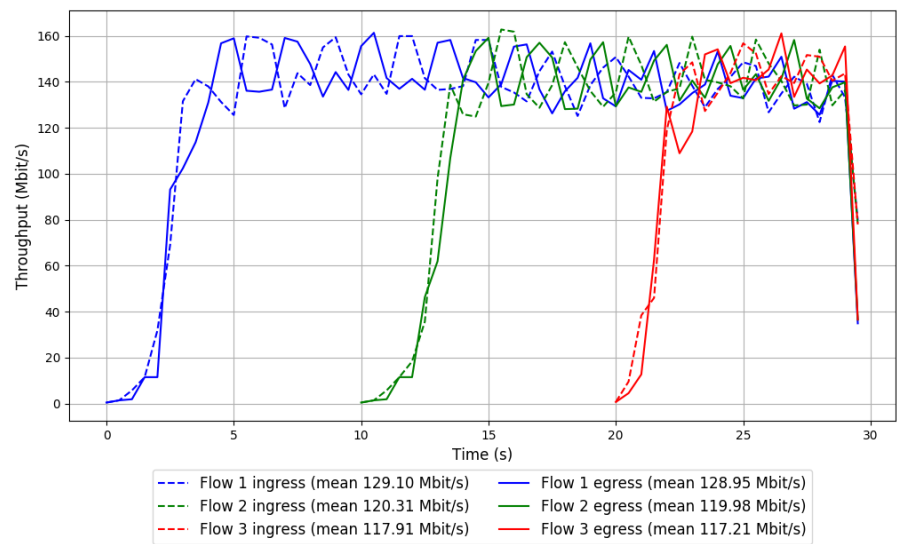


```
Run 3: Statistics of Indigo-calib

Start at: 2017-12-01 09:28:43
End at: 2017-12-01 09:29:13

# Below is generated by plot.py at 2017-12-01 14:06:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 245.92 Mbit/s
95th percentile per-packet one-way delay: 137.897 ms
Loss rate: 1.60%
-- Flow 1:
Average throughput: 128.95 Mbit/s
95th percentile per-packet one-way delay: 137.374 ms
Loss rate: 1.04%
-- Flow 2:
Average throughput: 119.98 Mbit/s
95th percentile per-packet one-way delay: 138.214 ms
Loss rate: 1.64%
-- Flow 3:
Average throughput: 117.21 Mbit/s
95th percentile per-packet one-way delay: 138.680 ms
Loss rate: 3.38%
```


Run 3: Report of Indigo-calib — Data Link

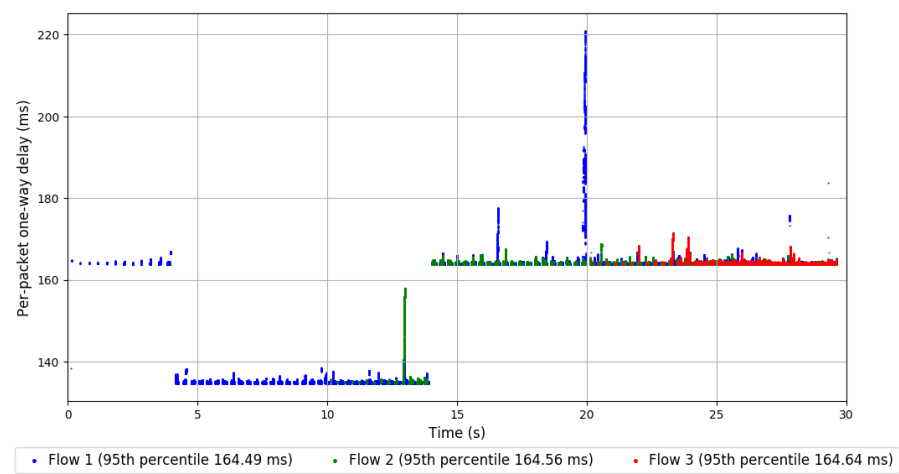
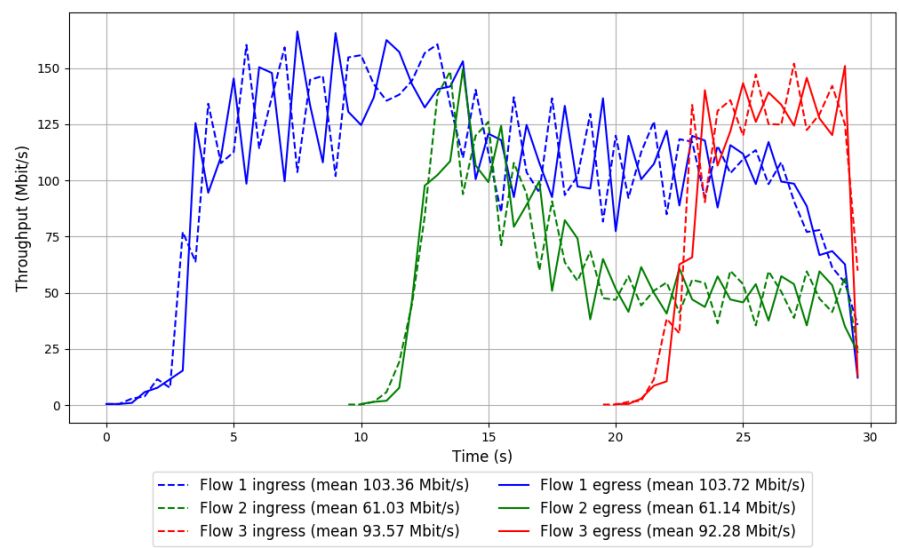


```
Run 4: Statistics of Indigo-calib

Start at: 2017-12-01 09:42:44
End at: 2017-12-01 09:43:14

# Below is generated by plot.py at 2017-12-01 14:06:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 173.67 Mbit/s
95th percentile per-packet one-way delay: 164.535 ms
Loss rate: 1.41%
-- Flow 1:
Average throughput: 103.72 Mbit/s
95th percentile per-packet one-way delay: 164.489 ms
Loss rate: 0.59%
-- Flow 2:
Average throughput: 61.14 Mbit/s
95th percentile per-packet one-way delay: 164.562 ms
Loss rate: 1.22%
-- Flow 3:
Average throughput: 92.28 Mbit/s
95th percentile per-packet one-way delay: 164.636 ms
Loss rate: 4.39%
```

Run 4: Report of Indigo-calib — Data Link



Run 5: Statistics of Indigo-calib

Start at: 2017-12-01 09:56:18

End at: 2017-12-01 09:56:48

Below is generated by plot.py at 2017-12-01 14:06:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 215.79 Mbit/s

95th percentile per-packet one-way delay: 166.183 ms

Loss rate: 1.84%

-- Flow 1:

Average throughput: 115.96 Mbit/s

95th percentile per-packet one-way delay: 166.190 ms

Loss rate: 1.12%

-- Flow 2:

Average throughput: 106.35 Mbit/s

95th percentile per-packet one-way delay: 166.221 ms

Loss rate: 1.85%

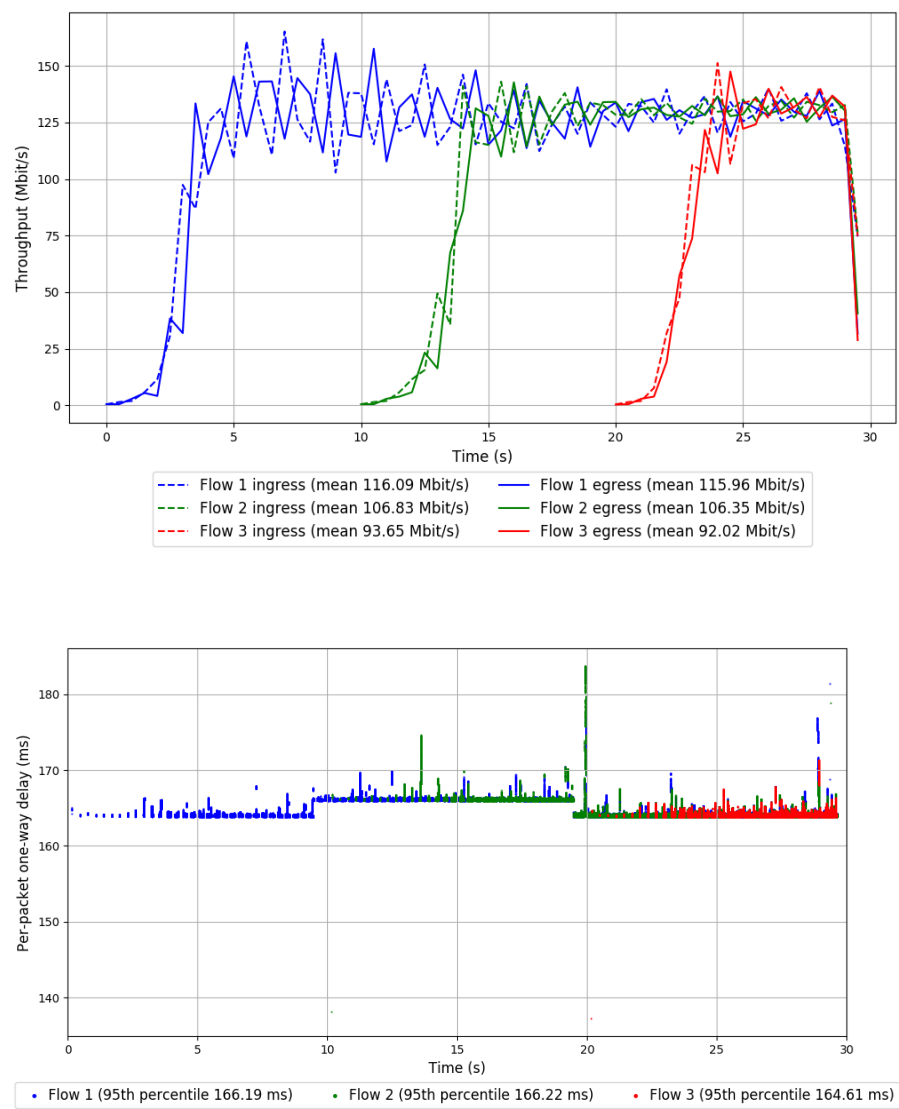
-- Flow 3:

Average throughput: 92.02 Mbit/s

95th percentile per-packet one-way delay: 164.608 ms

Loss rate: 4.54%

Run 5: Report of Indigo-calib — Data Link

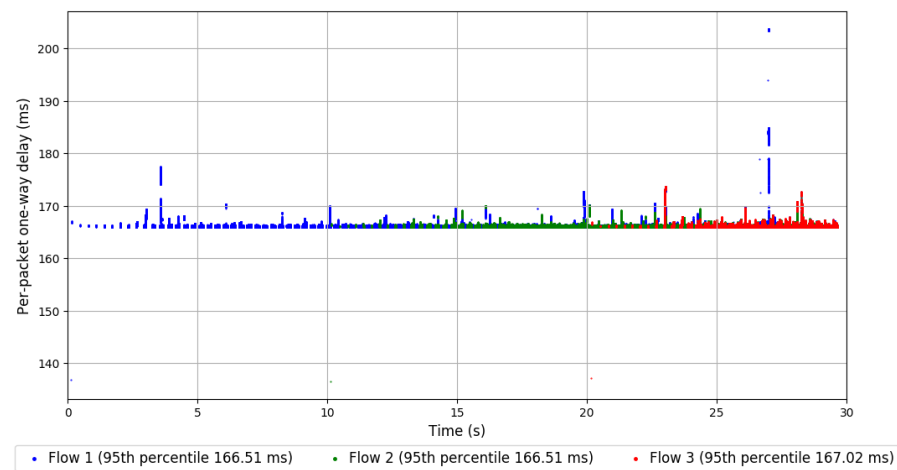
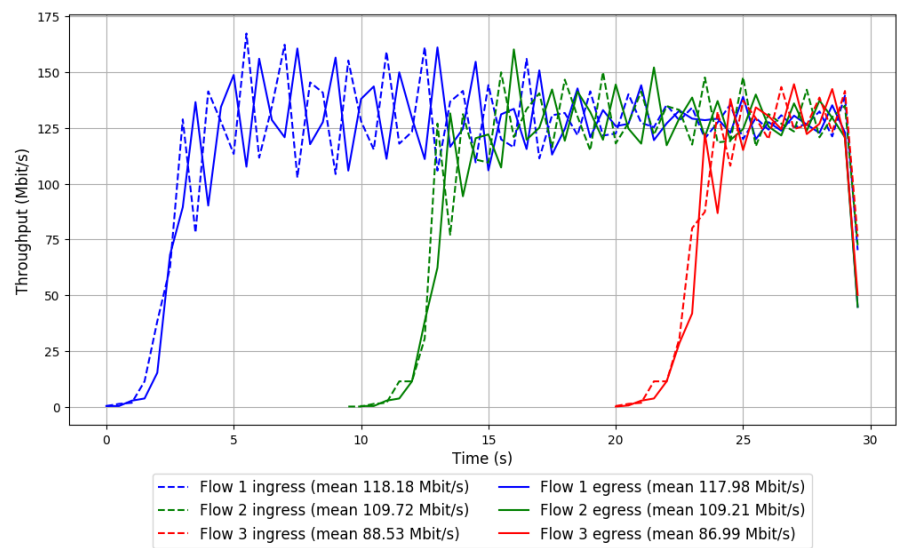


```
Run 6: Statistics of Indigo-calib

Start at: 2017-12-01 10:09:30
End at: 2017-12-01 10:10:00

# Below is generated by plot.py at 2017-12-01 14:06:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 218.10 Mbit/s
95th percentile per-packet one-way delay: 166.587 ms
Loss rate: 1.80%
-- Flow 1:
Average throughput: 117.98 Mbit/s
95th percentile per-packet one-way delay: 166.509 ms
Loss rate: 1.10%
-- Flow 2:
Average throughput: 109.21 Mbit/s
95th percentile per-packet one-way delay: 166.506 ms
Loss rate: 1.85%
-- Flow 3:
Average throughput: 86.99 Mbit/s
95th percentile per-packet one-way delay: 167.022 ms
Loss rate: 4.53%
```

Run 6: Report of Indigo-calib — Data Link



Run 7: Statistics of Indigo-calib

Start at: 2017-12-01 10:22:56

End at: 2017-12-01 10:23:26

Below is generated by plot.py at 2017-12-01 14:06:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 158.31 Mbit/s

95th percentile per-packet one-way delay: 166.200 ms

Loss rate: 1.68%

-- Flow 1:

Average throughput: 117.41 Mbit/s

95th percentile per-packet one-way delay: 166.194 ms

Loss rate: 1.06%

-- Flow 2:

Average throughput: 13.05 Mbit/s

95th percentile per-packet one-way delay: 166.995 ms

Loss rate: 1.29%

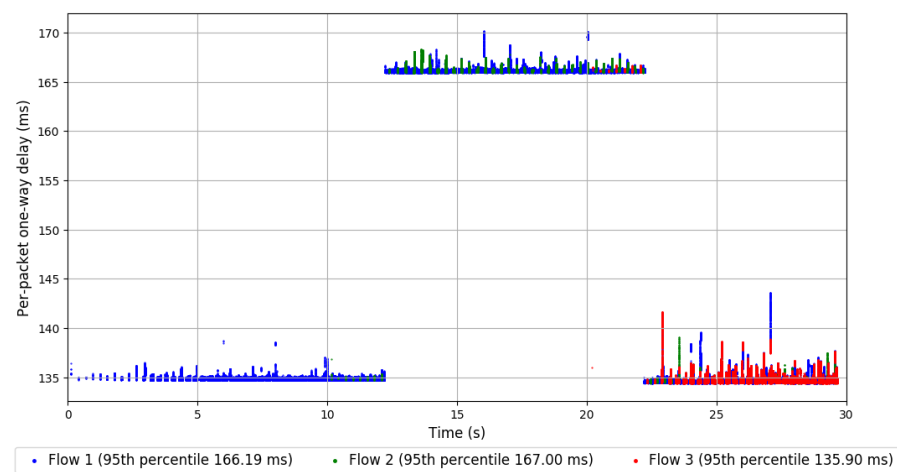
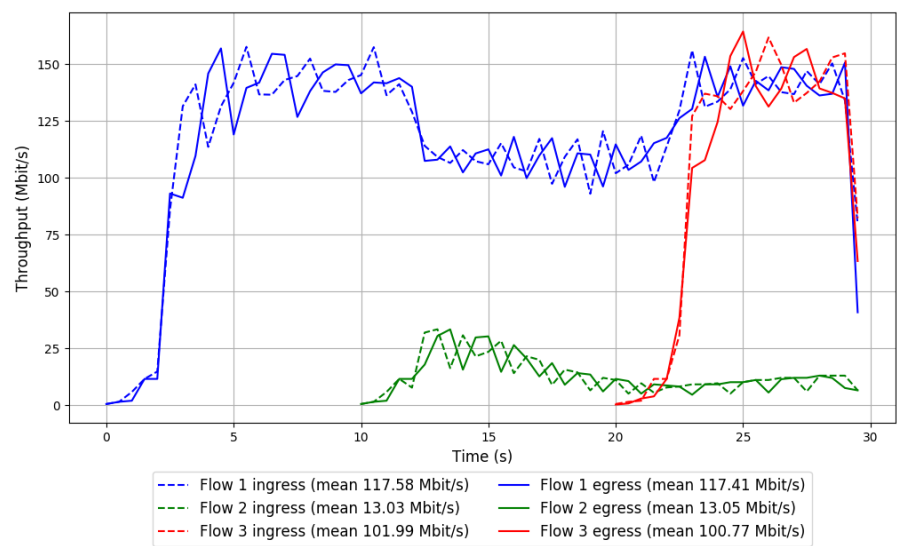
-- Flow 3:

Average throughput: 100.77 Mbit/s

95th percentile per-packet one-way delay: 135.897 ms

Loss rate: 3.98%

Run 7: Report of Indigo-calib — Data Link



Run 8: Statistics of Indigo-calib

Start at: 2017-12-01 10:36:19

End at: 2017-12-01 10:36:49

Below is generated by plot.py at 2017-12-01 14:07:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 207.44 Mbit/s

95th percentile per-packet one-way delay: 166.361 ms

Loss rate: 1.42%

-- Flow 1:

Average throughput: 115.95 Mbit/s

95th percentile per-packet one-way delay: 166.290 ms

Loss rate: 0.95%

-- Flow 2:

Average throughput: 94.59 Mbit/s

95th percentile per-packet one-way delay: 166.390 ms

Loss rate: 0.86%

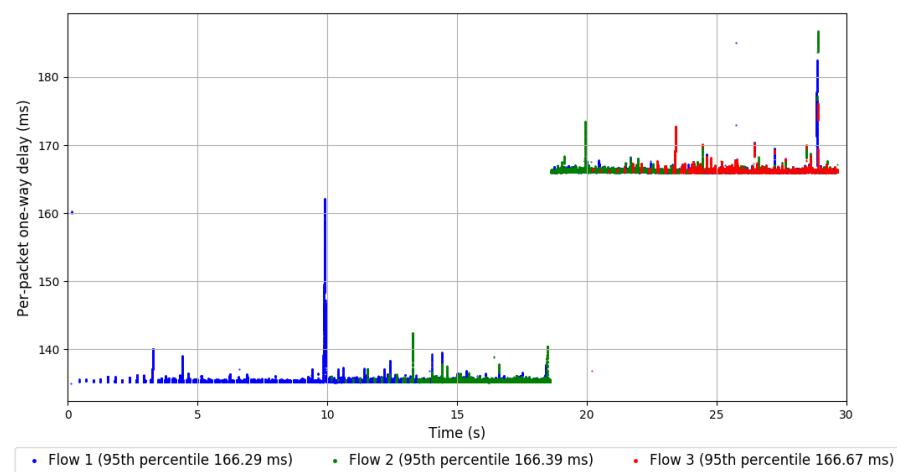
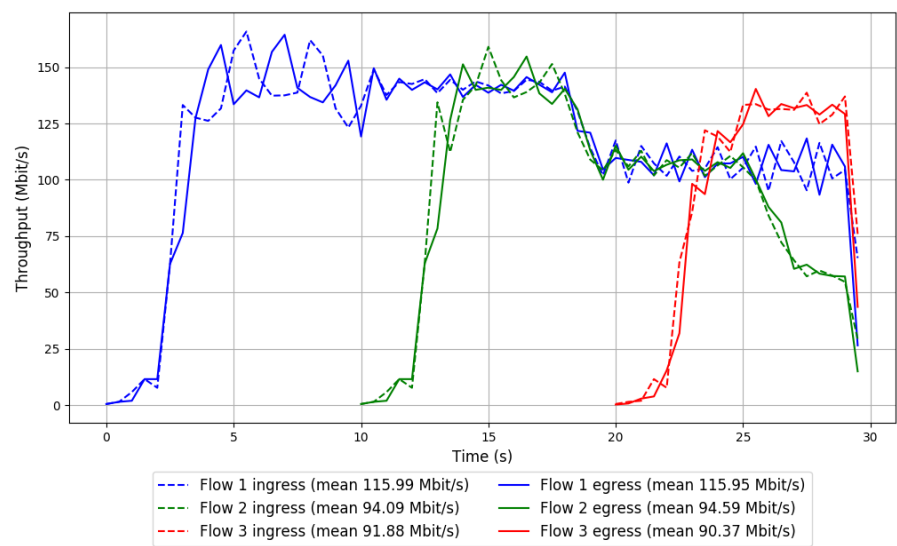
-- Flow 3:

Average throughput: 90.37 Mbit/s

95th percentile per-packet one-way delay: 166.667 ms

Loss rate: 4.42%

Run 8: Report of Indigo-calib — Data Link

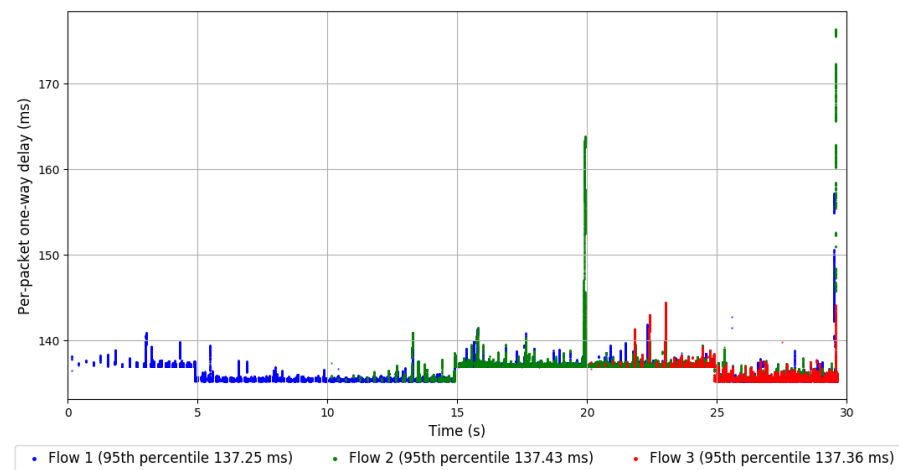
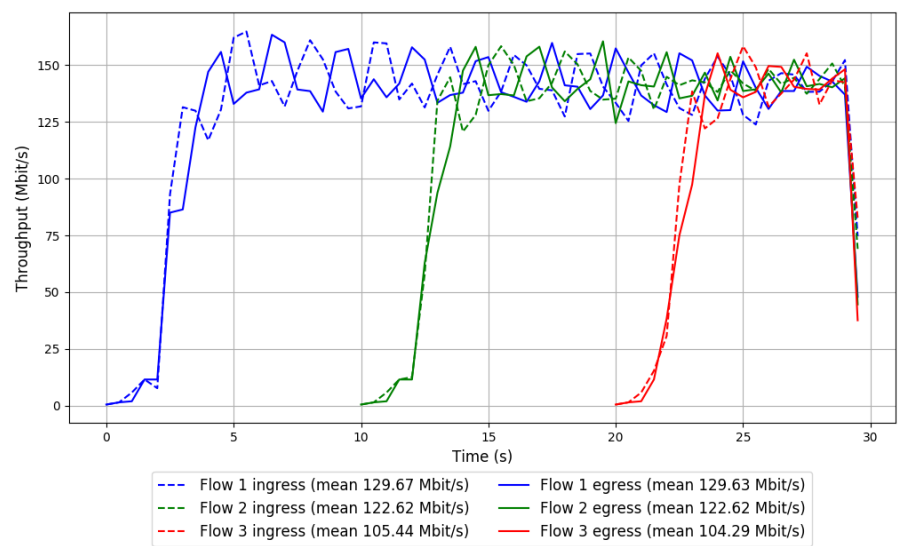


```
Run 9: Statistics of Indigo-calib

Start at: 2017-12-01 10:49:33
End at: 2017-12-01 10:50:03

# Below is generated by plot.py at 2017-12-01 14:07:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 244.23 Mbit/s
95th percentile per-packet one-way delay: 137.315 ms
Loss rate: 1.51%
-- Flow 1:
Average throughput: 129.63 Mbit/s
95th percentile per-packet one-way delay: 137.255 ms
Loss rate: 0.96%
-- Flow 2:
Average throughput: 122.62 Mbit/s
95th percentile per-packet one-way delay: 137.427 ms
Loss rate: 1.38%
-- Flow 3:
Average throughput: 104.29 Mbit/s
95th percentile per-packet one-way delay: 137.360 ms
Loss rate: 3.86%
```

Run 9: Report of Indigo-calib — Data Link



Run 10: Statistics of Indigo-calib

Start at: 2017-12-01 11:03:24

End at: 2017-12-01 11:03:54

Below is generated by plot.py at 2017-12-01 14:07:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 235.34 Mbit/s

95th percentile per-packet one-way delay: 137.407 ms

Loss rate: 1.65%

-- Flow 1:

Average throughput: 125.82 Mbit/s

95th percentile per-packet one-way delay: 137.391 ms

Loss rate: 0.97%

-- Flow 2:

Average throughput: 118.03 Mbit/s

95th percentile per-packet one-way delay: 137.468 ms

Loss rate: 1.71%

-- Flow 3:

Average throughput: 98.89 Mbit/s

95th percentile per-packet one-way delay: 137.326 ms

Loss rate: 4.12%

Run 10: Report of Indigo-calib — Data Link

