

Pantheon Report

Generated at 2017-12-01 14:51:03 (UTC).

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

Repeated the test of 14 congestion control schemes 10 times.

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

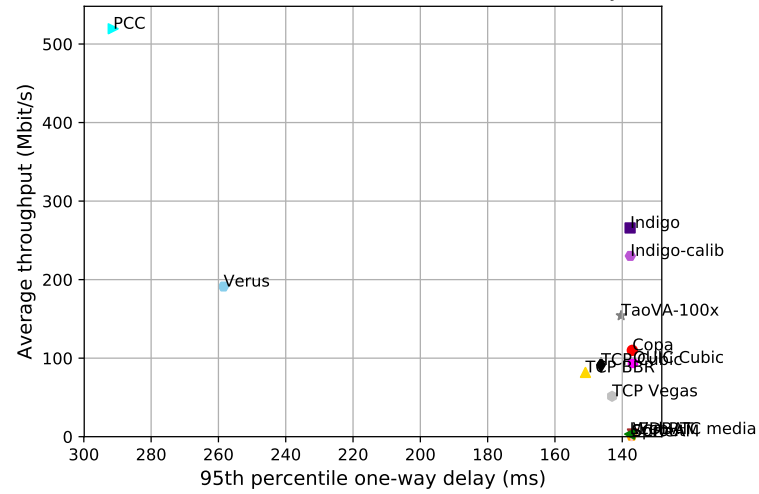
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

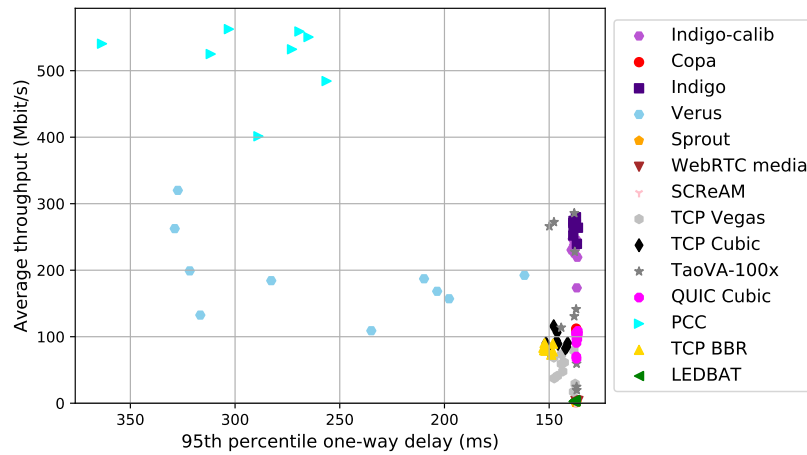
Git summary:

```
branch: indigos @ e3a57ad5ac5cfcaca0e3f983c8dd4cc3509e0262
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
M datagrump/sender.cc
third_party/genericCC @ b5b7c38e8391001927dc41c6cfa2627d03dde737
third_party/indigo @ b19f3730105f9aa95452552af924e3719b03cc55
third_party/indigo-cellular @ aee99e8eb842cb053f8c9a80e28cd256a930bbc2
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/indigo-no-cwnd @ 3e58442c04028a11d7b02456e137604633ba2d6c
third_party/indigo-no-delivery-rate @ 57caa40858b964906edff4876d5a7e5bfff666c5
third_party/indigo-no-queuing-delay @ 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-quick @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eaeab30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/webRTC @ a488197ddd041ace68a42849b2540ad834825f42
```

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



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



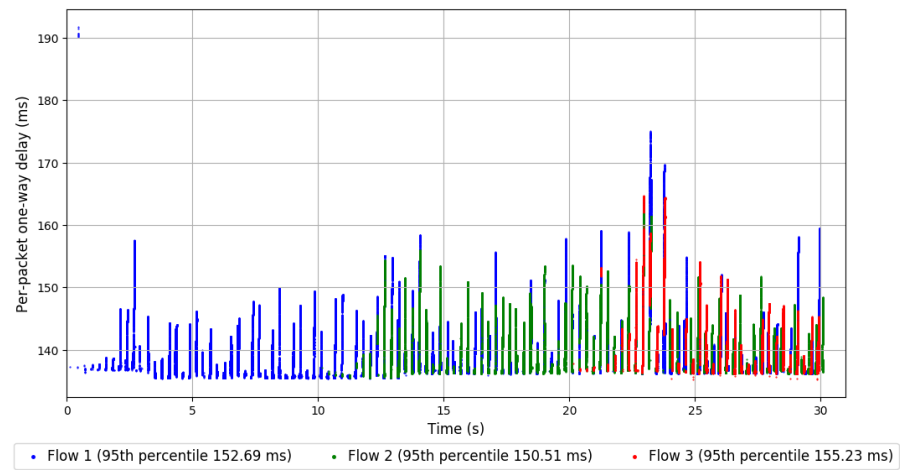
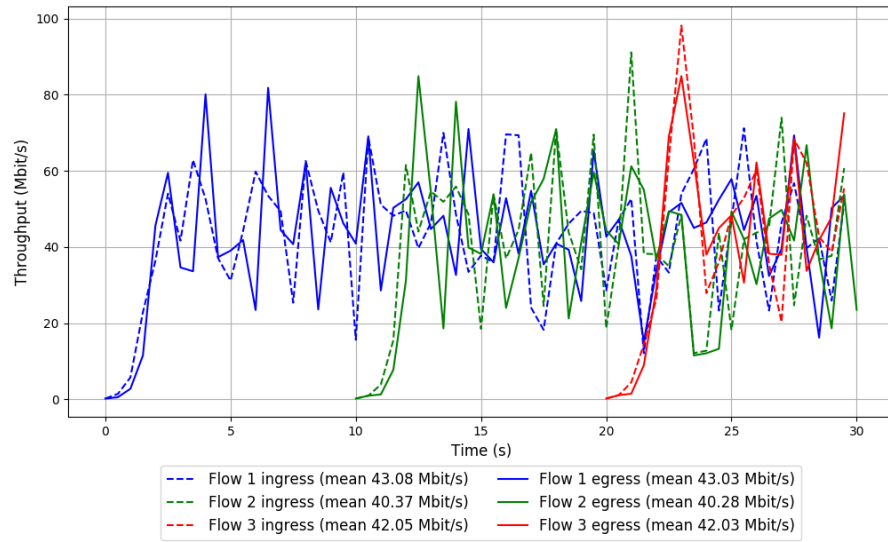
scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	10	39.55	43.57	40.93	151.26	150.78	150.50	0.29	0.42	0.02
TCP Cubic	10	40.10	55.63	43.22	142.82	146.18	147.98	0.23	0.13	0.46
LEDBAT	10	2.07	1.52	0.78	137.93	137.64	137.45	0.91	0.47	0.32
PCC	8	368.33	190.77	53.80	292.18	248.38	243.72	5.03	2.37	2.91
QUIC Cubic	9	51.67	43.35	42.60	136.50	136.43	136.25	0.00	0.00	0.00
SCReAM	9	0.22	0.21	0.21	136.64	136.83	136.50	0.00	0.00	0.00
WebRTC media	10	1.94	1.16	0.32	136.74	136.90	136.88	0.00	0.00	0.00
Sprout	10	0.39	0.42	0.47	137.18	137.20	137.04	0.00	0.00	0.00
TaoVA-100x	10	73.54	94.24	72.13	138.70	139.80	145.77	0.12	0.00	0.04
TCP Vegas	10	21.06	31.88	27.76	141.33	141.58	143.90	0.43	0.45	0.05
Verus	10	119.69	72.05	77.82	260.17	196.96	230.89	4.24	0.41	2.23
Copa	2	58.78	55.22	44.92	136.94	136.99	136.76	0.00	0.00	0.00
Indigo	10	145.01	131.26	107.50	137.27	138.13	139.34	0.05	0.03	0.01
Indigo-calib	10	118.36	120.77	101.75	137.41	137.81	137.61	0.07	0.03	0.09

```
Run 1: Statistics of TCP BBR

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

# Below is generated by plot.py at 2017-12-01 14:09:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 83.41 Mbit/s
95th percentile per-packet one-way delay: 152.739 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 43.03 Mbit/s
95th percentile per-packet one-way delay: 152.695 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 40.28 Mbit/s
95th percentile per-packet one-way delay: 150.507 ms
Loss rate: 0.21%
-- Flow 3:
Average throughput: 42.03 Mbit/s
95th percentile per-packet one-way delay: 155.227 ms
Loss rate: 0.08%
```


Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2017-12-01 11:25:56

End at: 2017-12-01 11:26:26

Below is generated by plot.py at 2017-12-01 14:09:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 80.98 Mbit/s

95th percentile per-packet one-way delay: 151.511 ms

Loss rate: 1.35%

-- Flow 1:

Average throughput: 39.58 Mbit/s

95th percentile per-packet one-way delay: 153.614 ms

Loss rate: 0.89%

-- Flow 2:

Average throughput: 43.67 Mbit/s

95th percentile per-packet one-way delay: 150.364 ms

Loss rate: 2.56%

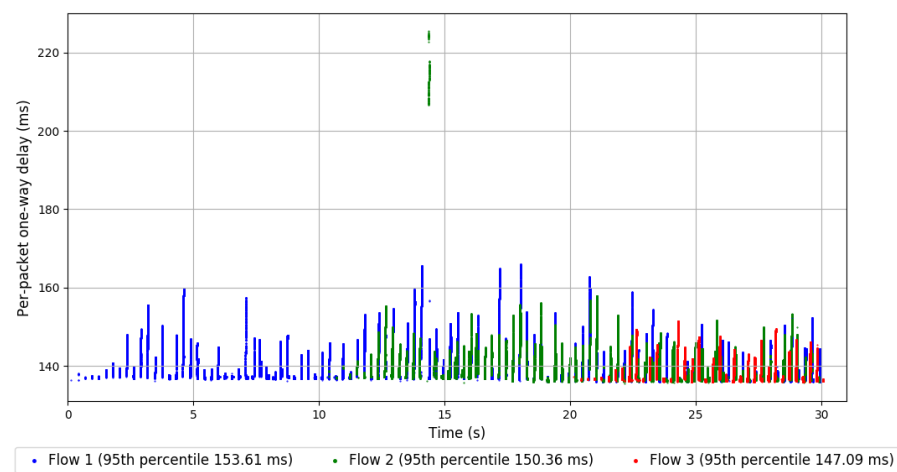
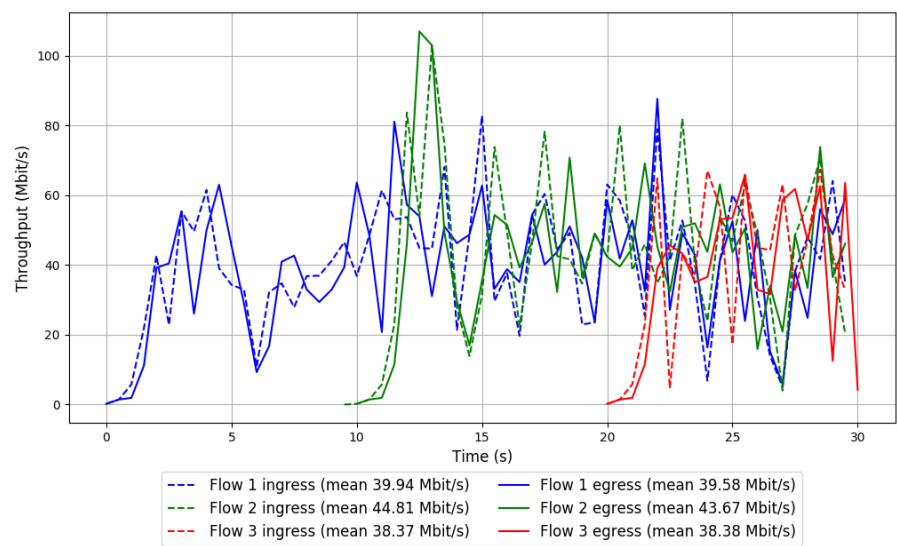
-- Flow 3:

Average throughput: 38.38 Mbit/s

95th percentile per-packet one-way delay: 147.087 ms

Loss rate: 0.00%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2017-12-01 11:39:23

End at: 2017-12-01 11:39:53

Below is generated by plot.py at 2017-12-01 14:09:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 73.04 Mbit/s

95th percentile per-packet one-way delay: 148.982 ms

Loss rate: 0.14%

-- Flow 1:

Average throughput: 32.53 Mbit/s

95th percentile per-packet one-way delay: 150.248 ms

Loss rate: 0.28%

-- Flow 2:

Average throughput: 41.07 Mbit/s

95th percentile per-packet one-way delay: 149.056 ms

Loss rate: 0.04%

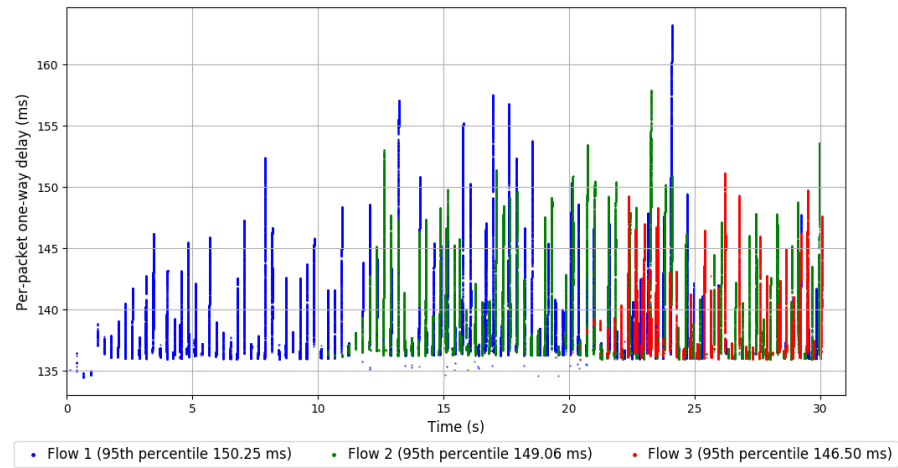
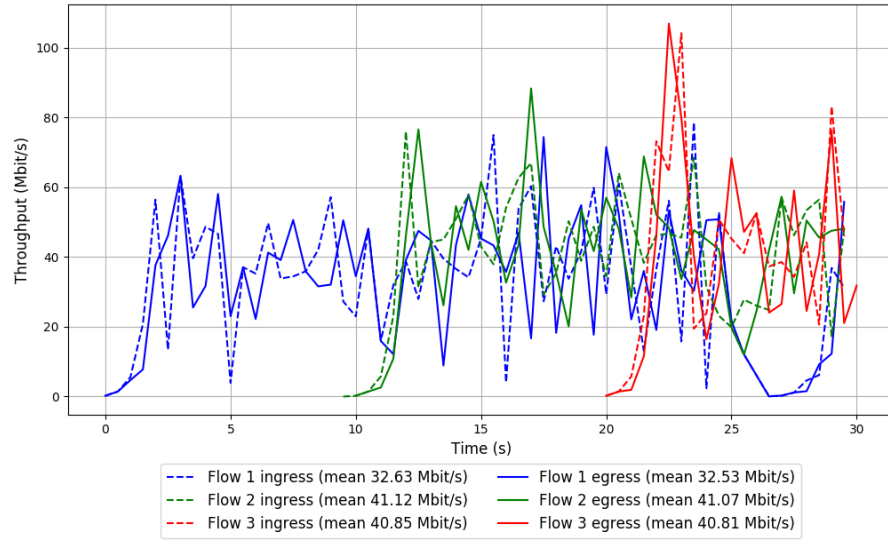
-- Flow 3:

Average throughput: 40.81 Mbit/s

95th percentile per-packet one-way delay: 146.496 ms

Loss rate: 0.01%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2017-12-01 11:53:34

End at: 2017-12-01 11:54:04

Below is generated by plot.py at 2017-12-01 14:10:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.53 Mbit/s

95th percentile per-packet one-way delay: 148.219 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 39.83 Mbit/s

95th percentile per-packet one-way delay: 148.188 ms

Loss rate: 0.14%

-- Flow 2:

Average throughput: 51.39 Mbit/s

95th percentile per-packet one-way delay: 148.462 ms

Loss rate: 0.02%

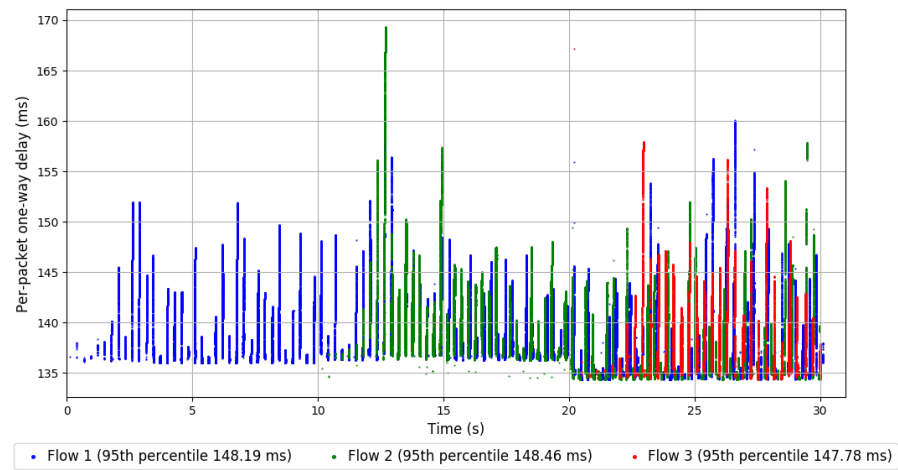
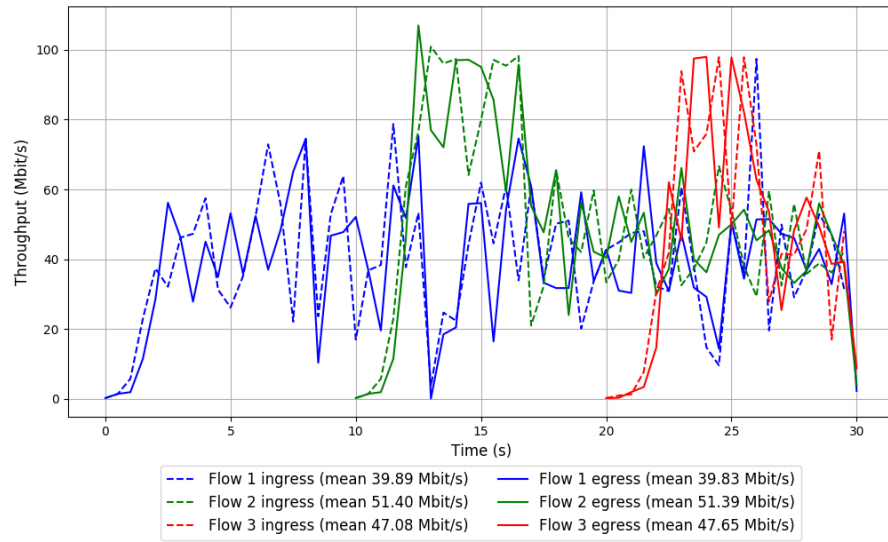
-- Flow 3:

Average throughput: 47.65 Mbit/s

95th percentile per-packet one-way delay: 147.780 ms

Loss rate: 0.00%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2017-12-01 12:07:38

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

Below is generated by plot.py at 2017-12-01 14:10:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 79.32 Mbit/s

95th percentile per-packet one-way delay: 151.606 ms

Loss rate: 0.44%

-- Flow 1:

Average throughput: 40.69 Mbit/s

95th percentile per-packet one-way delay: 151.755 ms

Loss rate: 0.81%

-- Flow 2:

Average throughput: 38.84 Mbit/s

95th percentile per-packet one-way delay: 151.762 ms

Loss rate: 0.02%

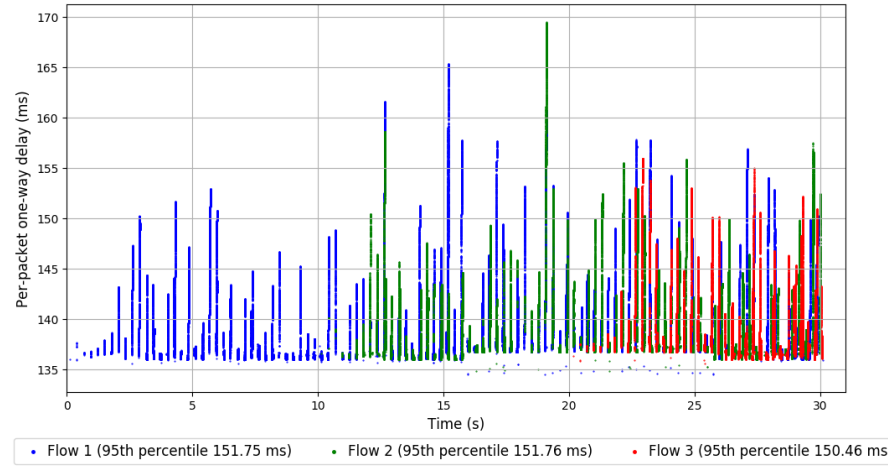
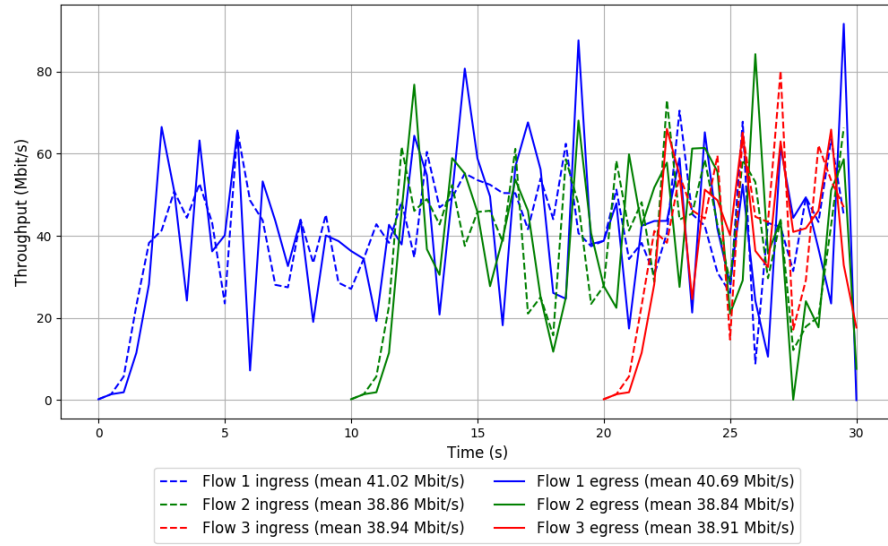
-- Flow 3:

Average throughput: 38.91 Mbit/s

95th percentile per-packet one-way delay: 150.460 ms

Loss rate: 0.07%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2017-12-01 12:21:35

End at: 2017-12-01 12:22:05

Below is generated by plot.py at 2017-12-01 14:10:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 77.92 Mbit/s

95th percentile per-packet one-way delay: 148.243 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 38.97 Mbit/s

95th percentile per-packet one-way delay: 148.440 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 38.64 Mbit/s

95th percentile per-packet one-way delay: 149.038 ms

Loss rate: 0.05%

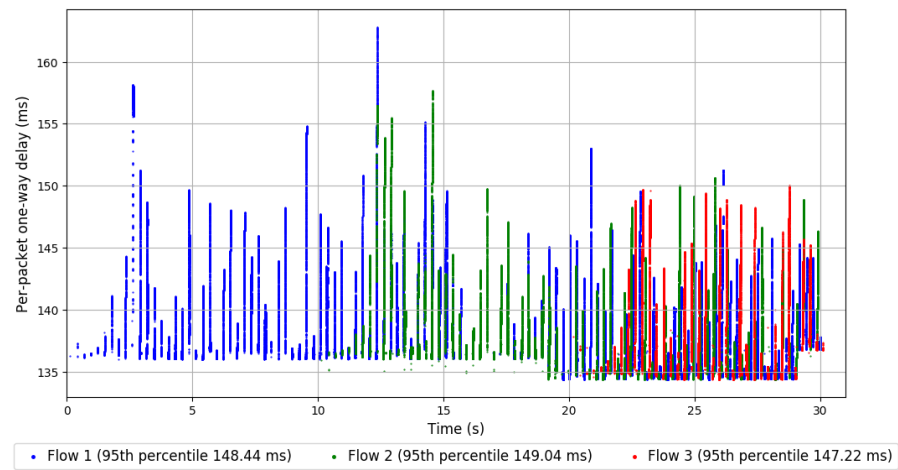
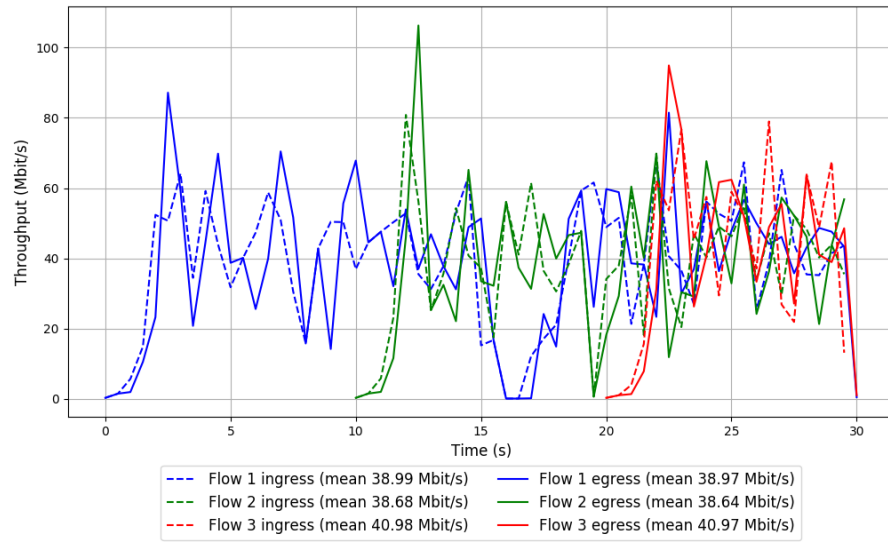
-- Flow 3:

Average throughput: 40.97 Mbit/s

95th percentile per-packet one-way delay: 147.222 ms

Loss rate: 0.03%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2017-12-01 12:35:05

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

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 90.46 Mbit/s

95th percentile per-packet one-way delay: 152.190 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 39.06 Mbit/s

95th percentile per-packet one-way delay: 152.205 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 58.21 Mbit/s

95th percentile per-packet one-way delay: 150.693 ms

Loss rate: 0.02%

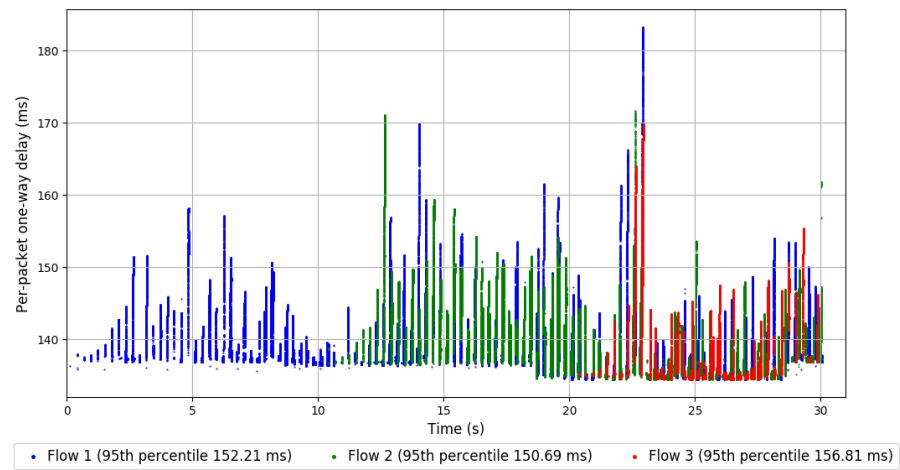
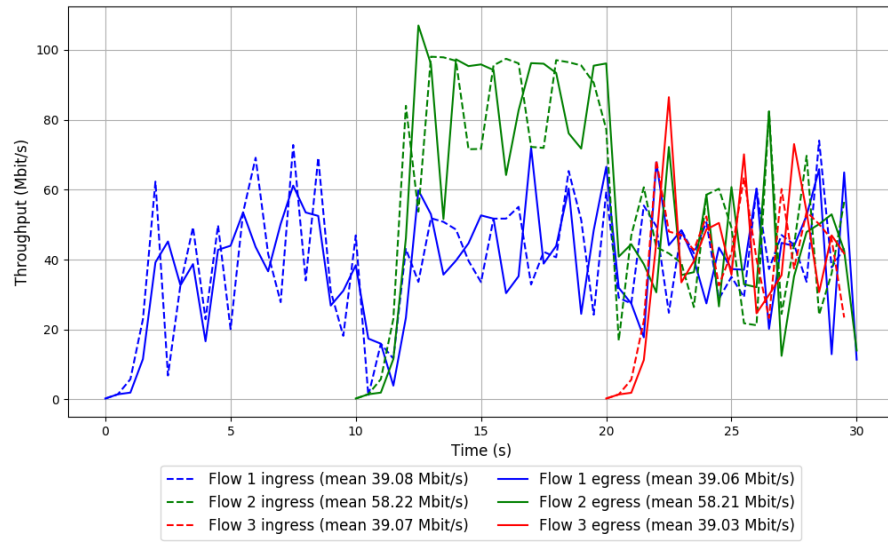
-- Flow 3:

Average throughput: 39.03 Mbit/s

95th percentile per-packet one-way delay: 156.812 ms

Loss rate: 0.00%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2017-12-01 12:48:57

End at: 2017-12-01 12:49:27

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.67 Mbit/s

95th percentile per-packet one-way delay: 151.656 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 45.31 Mbit/s

95th percentile per-packet one-way delay: 151.239 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 43.84 Mbit/s

95th percentile per-packet one-way delay: 152.415 ms

Loss rate: 0.32%

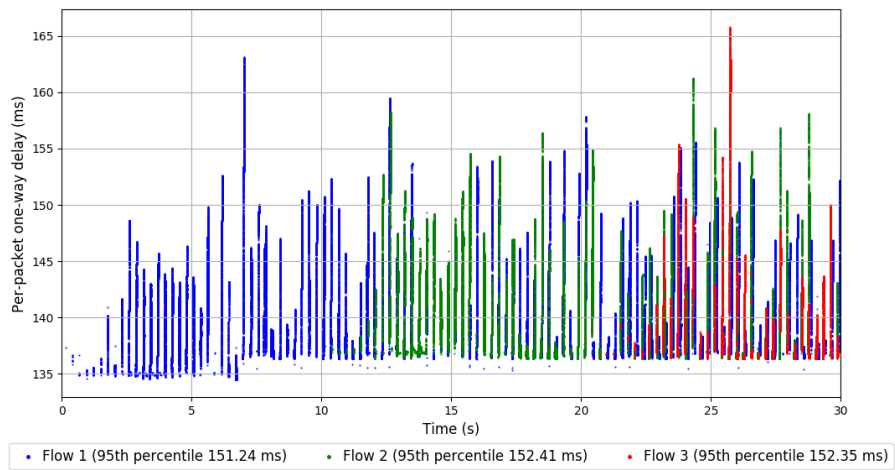
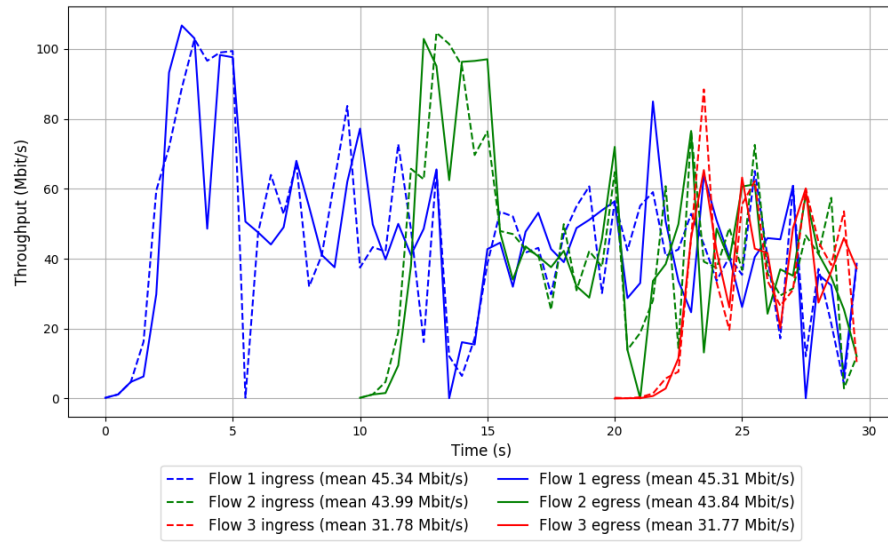
-- Flow 3:

Average throughput: 31.77 Mbit/s

95th percentile per-packet one-way delay: 152.354 ms

Loss rate: 0.03%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2017-12-01 13:03:22

End at: 2017-12-01 13:03:52

Below is generated by plot.py at 2017-12-01 14:11:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 79.82 Mbit/s

95th percentile per-packet one-way delay: 152.402 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 39.67 Mbit/s

95th percentile per-packet one-way delay: 151.906 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 43.58 Mbit/s

95th percentile per-packet one-way delay: 152.887 ms

Loss rate: 0.02%

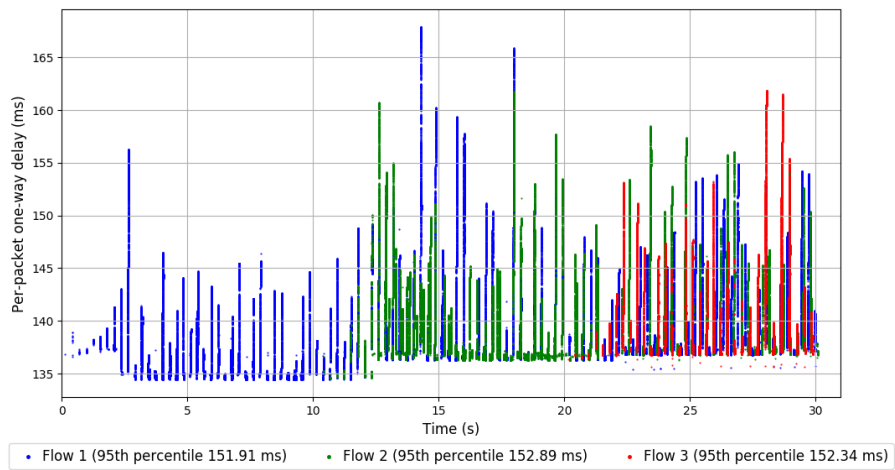
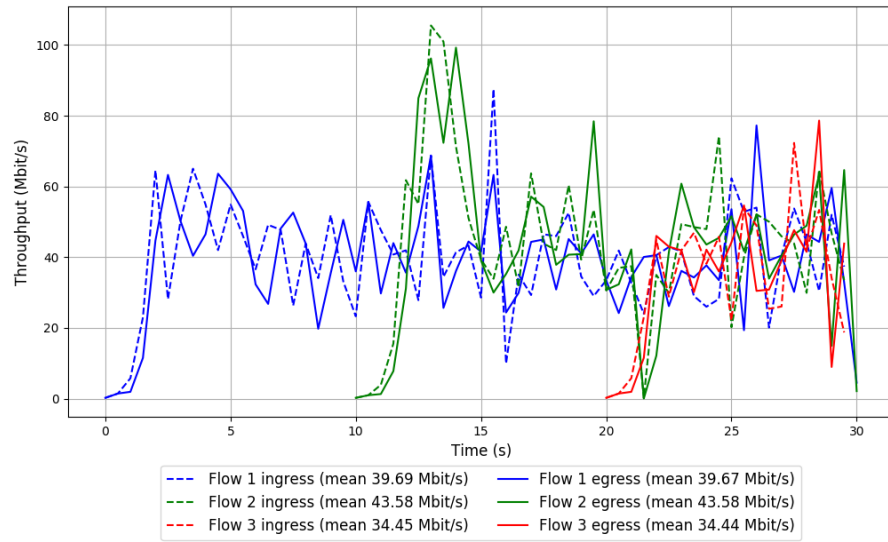
-- Flow 3:

Average throughput: 34.44 Mbit/s

95th percentile per-packet one-way delay: 152.335 ms

Loss rate: 0.01%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2017-12-01 13:16:57

End at: 2017-12-01 13:17:27

Below is generated by plot.py at 2017-12-01 14:11:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 79.22 Mbit/s

95th percentile per-packet one-way delay: 151.827 ms

Loss rate: 0.55%

-- Flow 1:

Average throughput: 36.85 Mbit/s

95th percentile per-packet one-way delay: 152.338 ms

Loss rate: 0.59%

-- Flow 2:

Average throughput: 36.15 Mbit/s

95th percentile per-packet one-way delay: 152.623 ms

Loss rate: 0.90%

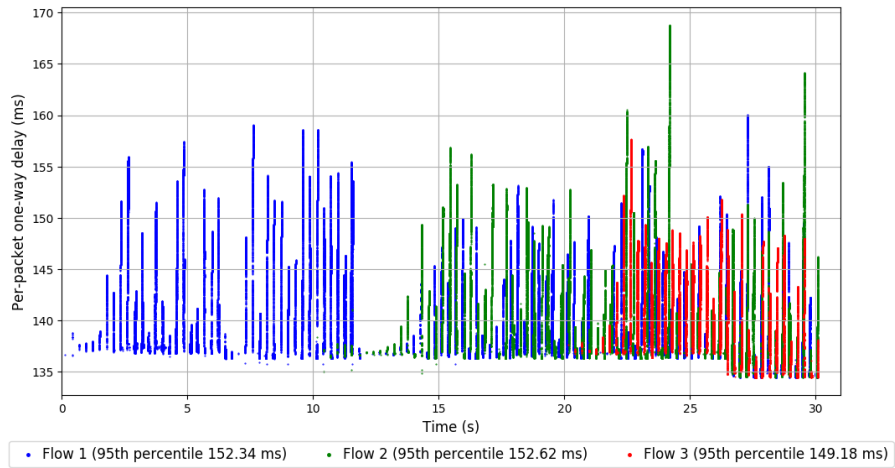
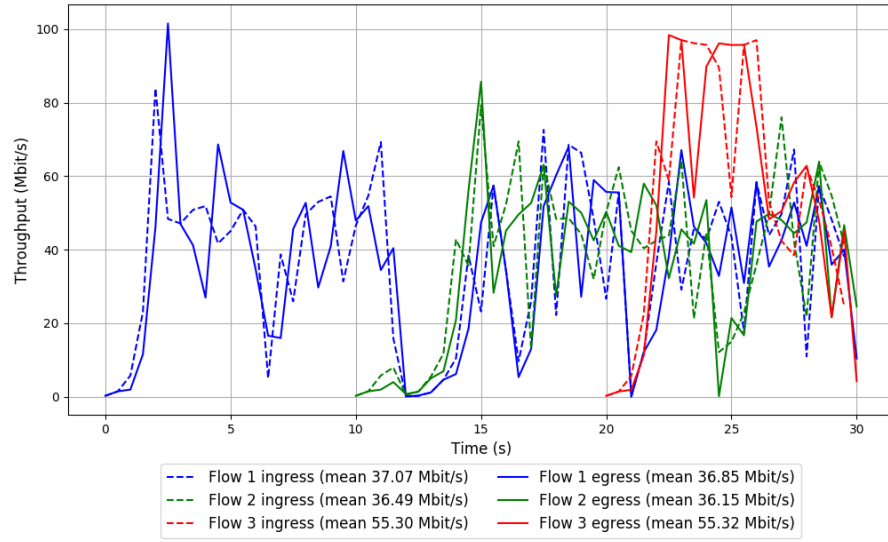
-- Flow 3:

Average throughput: 55.32 Mbit/s

95th percentile per-packet one-way delay: 149.181 ms

Loss rate: 0.00%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2017-12-01 11:15:22

End at: 2017-12-01 11:15:52

Below is generated by plot.py at 2017-12-01 14:11:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 90.47 Mbit/s

95th percentile per-packet one-way delay: 141.161 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 48.28 Mbit/s

95th percentile per-packet one-way delay: 139.945 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 44.60 Mbit/s

95th percentile per-packet one-way delay: 141.374 ms

Loss rate: 0.00%

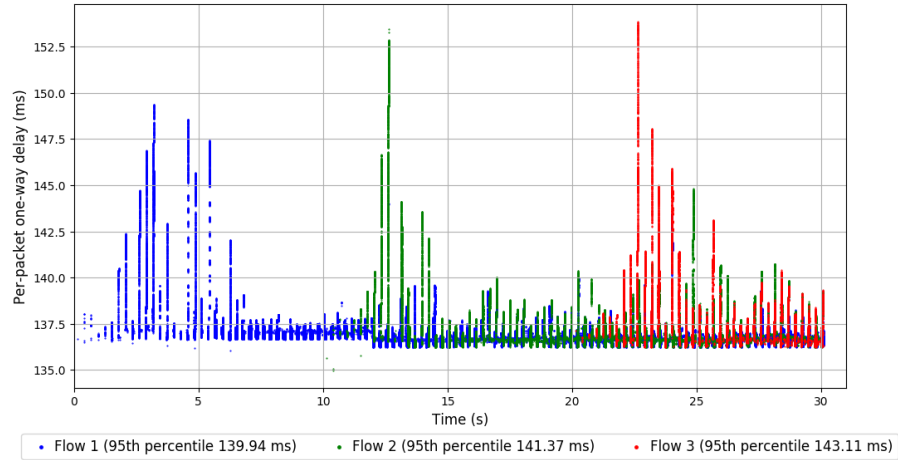
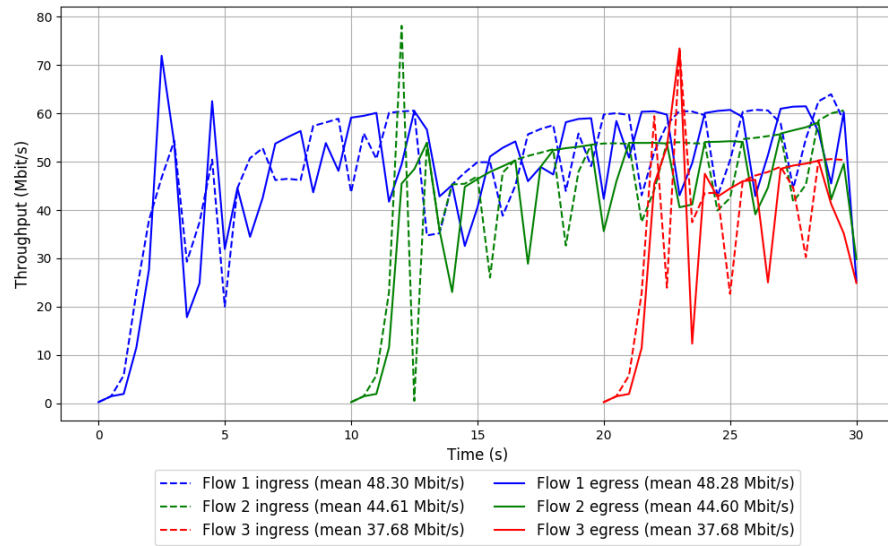
-- Flow 3:

Average throughput: 37.68 Mbit/s

95th percentile per-packet one-way delay: 143.112 ms

Loss rate: 0.00%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2017-12-01 11:29:17

End at: 2017-12-01 11:29:47

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 115.80 Mbit/s

95th percentile per-packet one-way delay: 147.826 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 49.00 Mbit/s

95th percentile per-packet one-way delay: 144.390 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 77.95 Mbit/s

95th percentile per-packet one-way delay: 150.404 ms

Loss rate: 0.01%

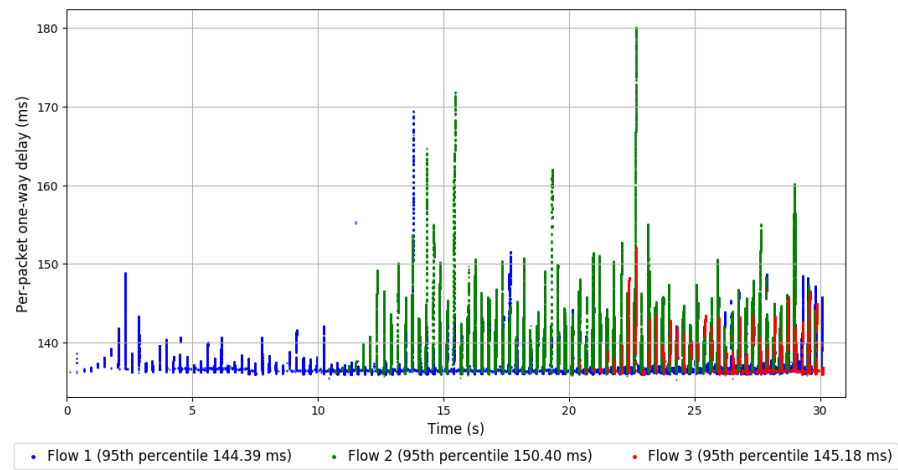
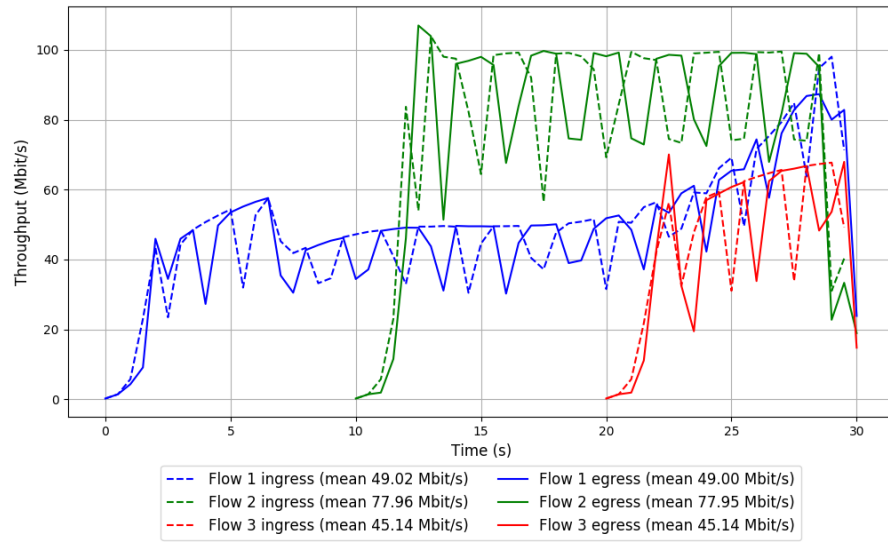
-- Flow 3:

Average throughput: 45.14 Mbit/s

95th percentile per-packet one-way delay: 145.176 ms

Loss rate: 0.00%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2017-12-01 11:42:48

End at: 2017-12-01 11:43:18

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 81.89 Mbit/s

95th percentile per-packet one-way delay: 150.280 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 45.29 Mbit/s

95th percentile per-packet one-way delay: 144.689 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 25.53 Mbit/s

95th percentile per-packet one-way delay: 144.635 ms

Loss rate: 0.00%

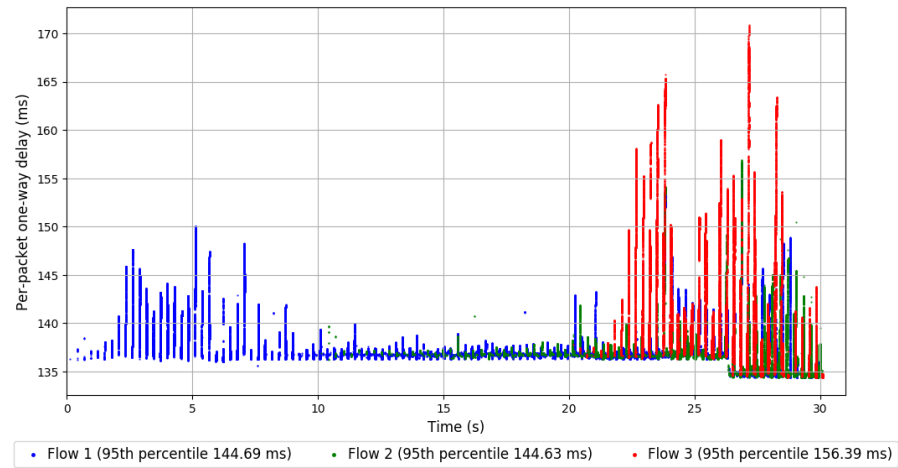
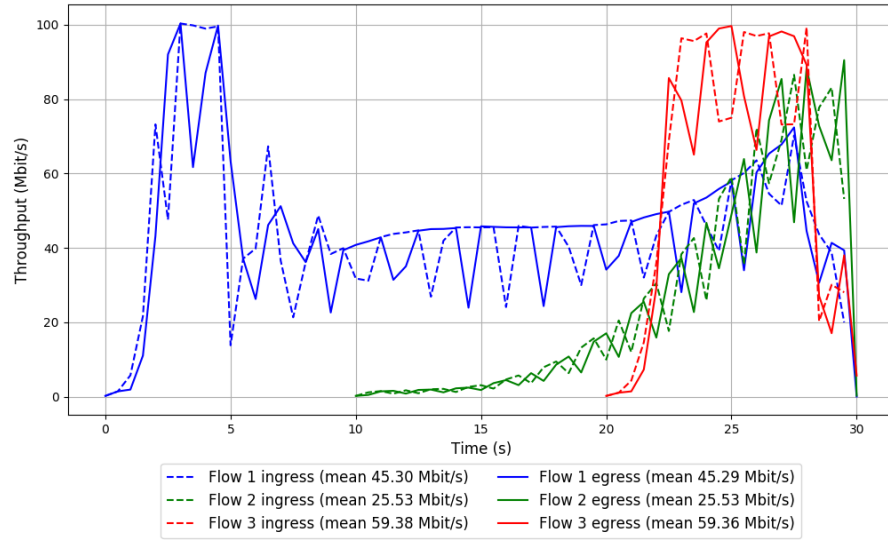
-- Flow 3:

Average throughput: 59.36 Mbit/s

95th percentile per-packet one-way delay: 156.387 ms

Loss rate: 0.06%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2017-12-01 11:56:49

End at: 2017-12-01 11:57:19

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 82.67 Mbit/s

95th percentile per-packet one-way delay: 142.210 ms

Loss rate: 0.44%

-- Flow 1:

Average throughput: 47.56 Mbit/s

95th percentile per-packet one-way delay: 139.635 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 52.11 Mbit/s

95th percentile per-packet one-way delay: 144.260 ms

Loss rate: 0.98%

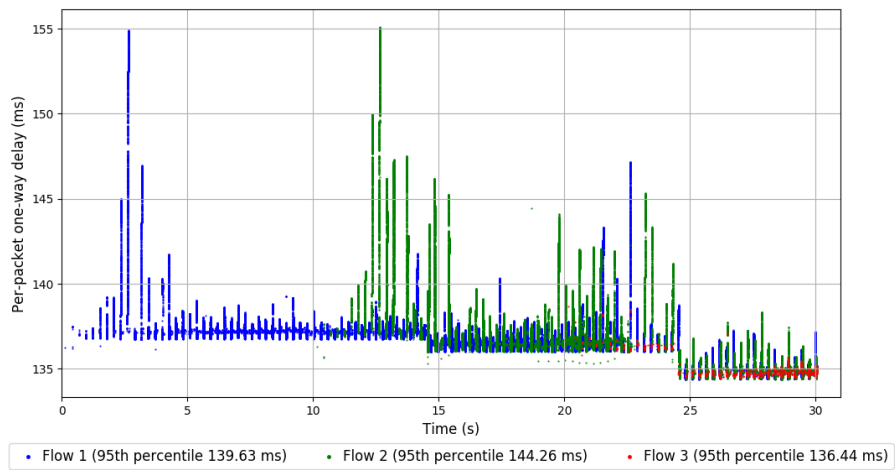
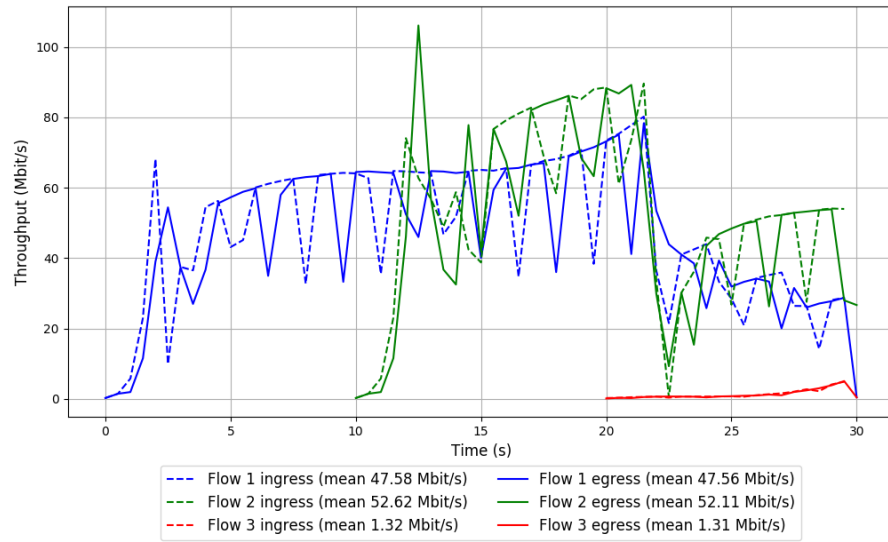
-- Flow 3:

Average throughput: 1.31 Mbit/s

95th percentile per-packet one-way delay: 136.436 ms

Loss rate: 0.55%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

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

End at: 2017-12-01 12:11:28

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 90.42 Mbit/s

95th percentile per-packet one-way delay: 151.527 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 38.66 Mbit/s

95th percentile per-packet one-way delay: 144.598 ms

Loss rate: 0.09%

-- Flow 2:

Average throughput: 58.12 Mbit/s

95th percentile per-packet one-way delay: 153.250 ms

Loss rate: 0.00%

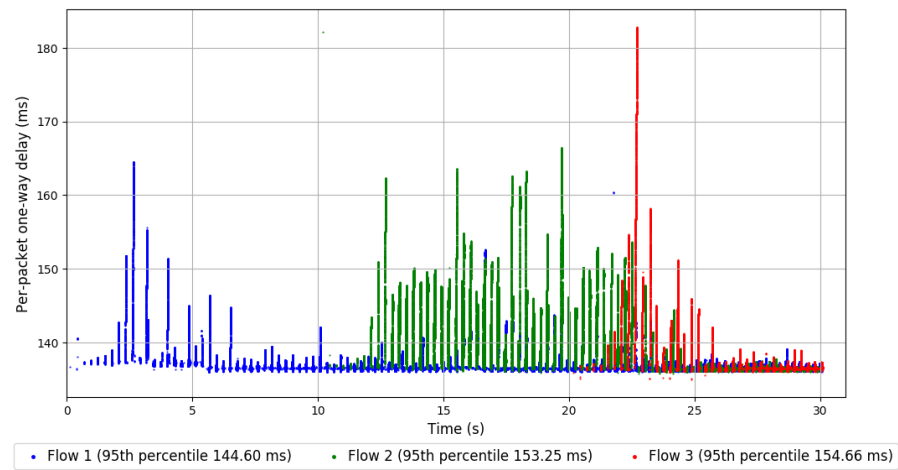
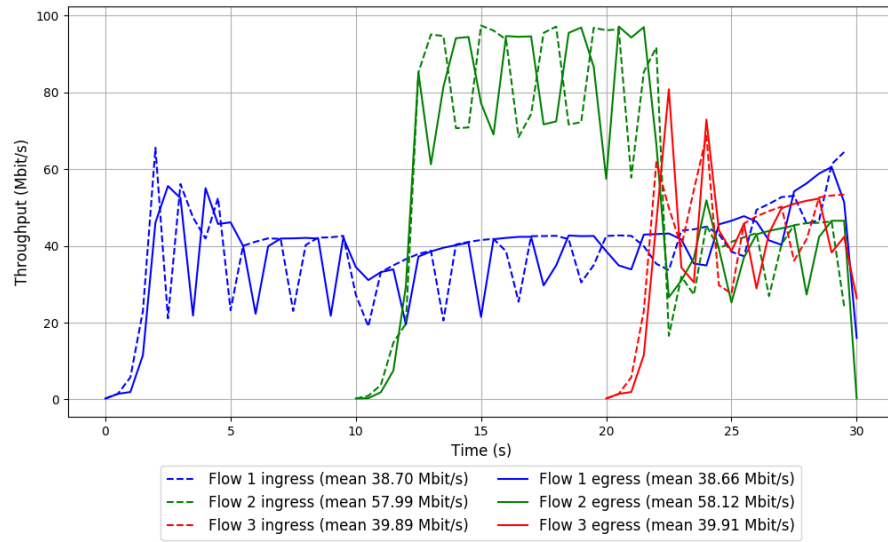
-- Flow 3:

Average throughput: 39.91 Mbit/s

95th percentile per-packet one-way delay: 154.664 ms

Loss rate: 0.03%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2017-12-01 12:24:57

End at: 2017-12-01 12:25:27

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.19 Mbit/s

95th percentile per-packet one-way delay: 145.766 ms

Loss rate: 0.60%

-- Flow 1:

Average throughput: 38.12 Mbit/s

95th percentile per-packet one-way delay: 146.341 ms

Loss rate: 0.51%

-- Flow 2:

Average throughput: 62.05 Mbit/s

95th percentile per-packet one-way delay: 144.916 ms

Loss rate: 0.01%

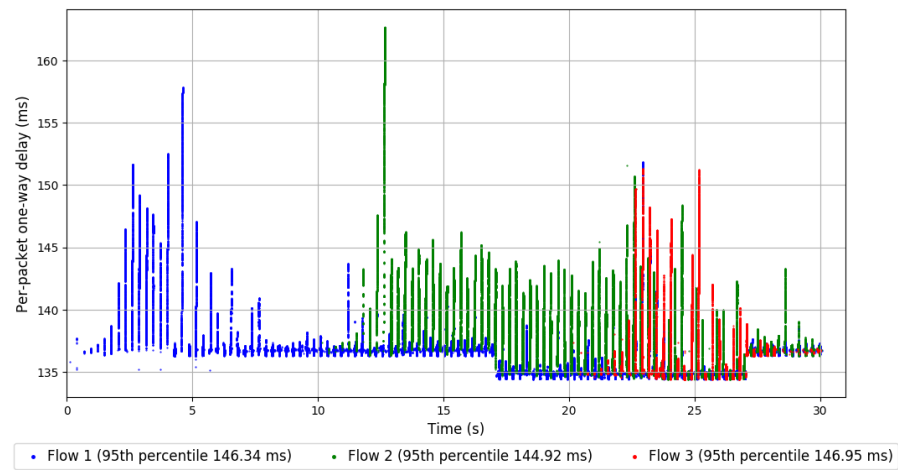
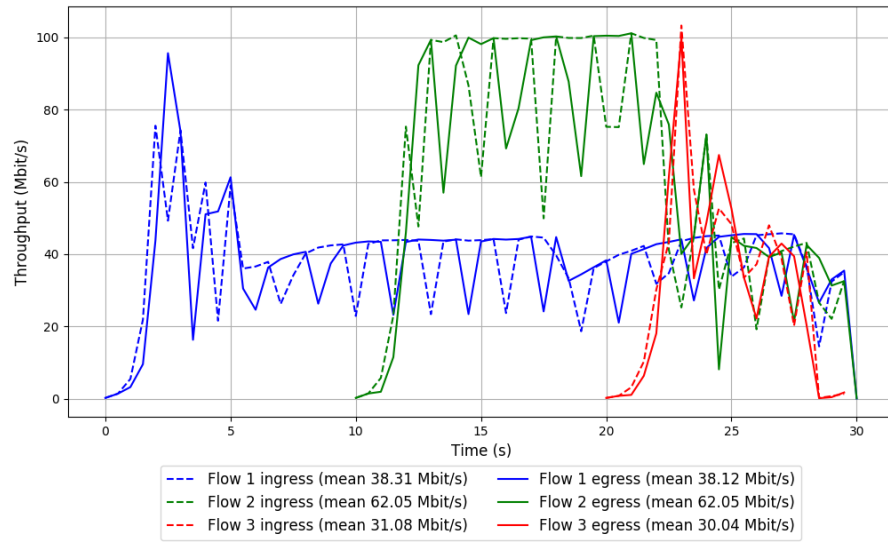
-- Flow 3:

Average throughput: 30.04 Mbit/s

95th percentile per-packet one-way delay: 146.951 ms

Loss rate: 3.36%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2017-12-01 12:38:28

End at: 2017-12-01 12:38:58

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 78.40 Mbit/s

95th percentile per-packet one-way delay: 150.135 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 14.66 Mbit/s

95th percentile per-packet one-way delay: 142.854 ms

Loss rate: 0.44%

-- Flow 2:

Average throughput: 76.05 Mbit/s

95th percentile per-packet one-way delay: 150.519 ms

Loss rate: 0.00%

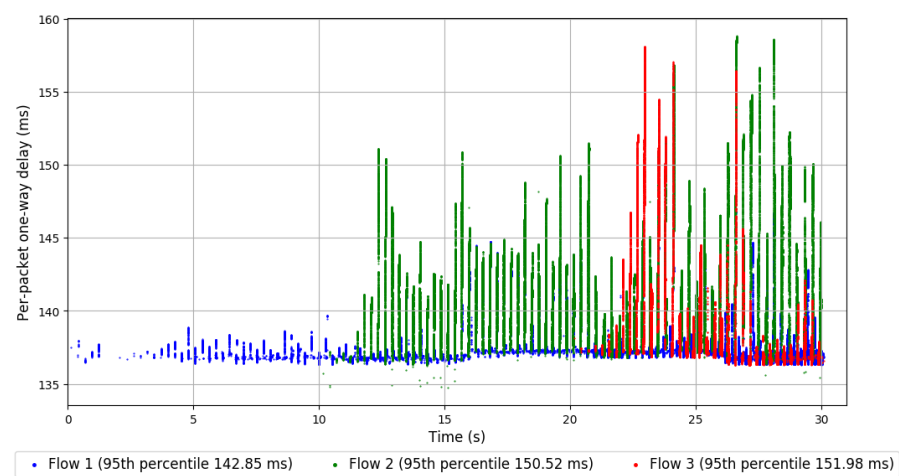
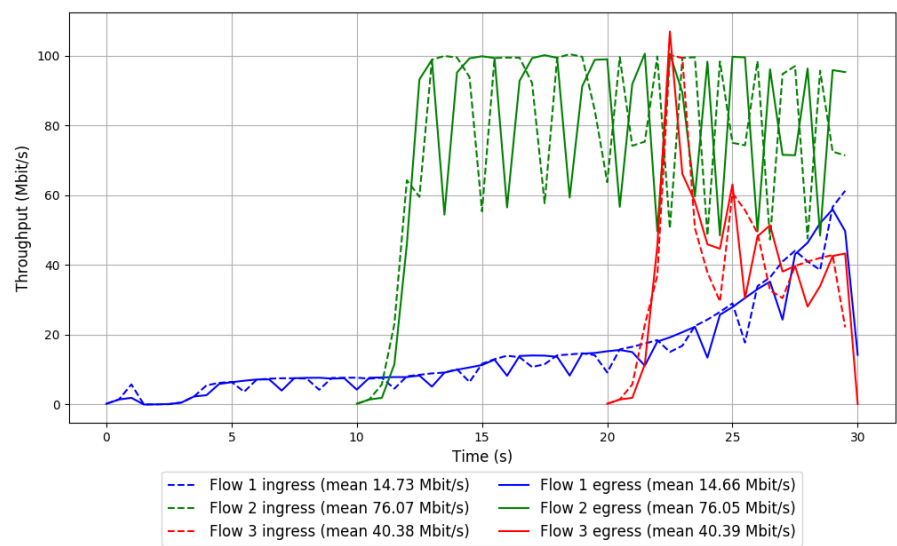
-- Flow 3:

Average throughput: 40.39 Mbit/s

95th percentile per-packet one-way delay: 151.981 ms

Loss rate: 0.00%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2017-12-01 12:52:20

End at: 2017-12-01 12:52:50

Below is generated by plot.py at 2017-12-01 14:12:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.80 Mbit/s

95th percentile per-packet one-way delay: 146.408 ms

Loss rate: 0.42%

-- Flow 1:

Average throughput: 32.22 Mbit/s

95th percentile per-packet one-way delay: 142.881 ms

Loss rate: 1.04%

-- Flow 2:

Average throughput: 57.03 Mbit/s

95th percentile per-packet one-way delay: 146.815 ms

Loss rate: 0.14%

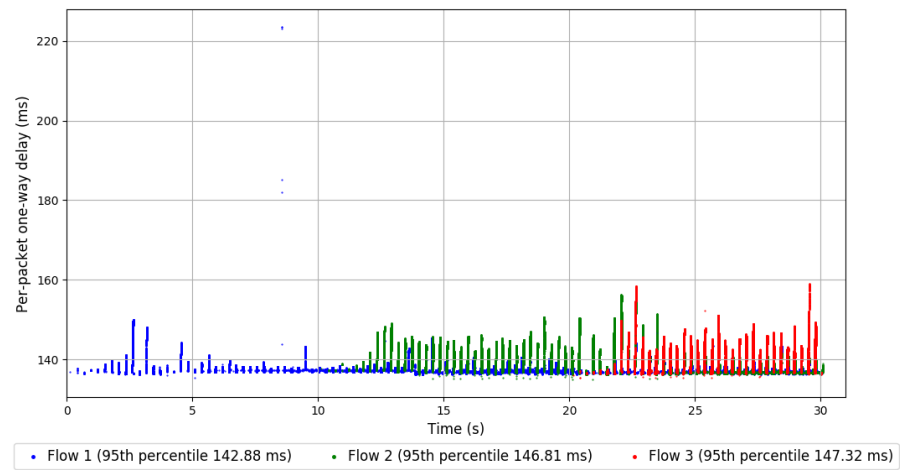
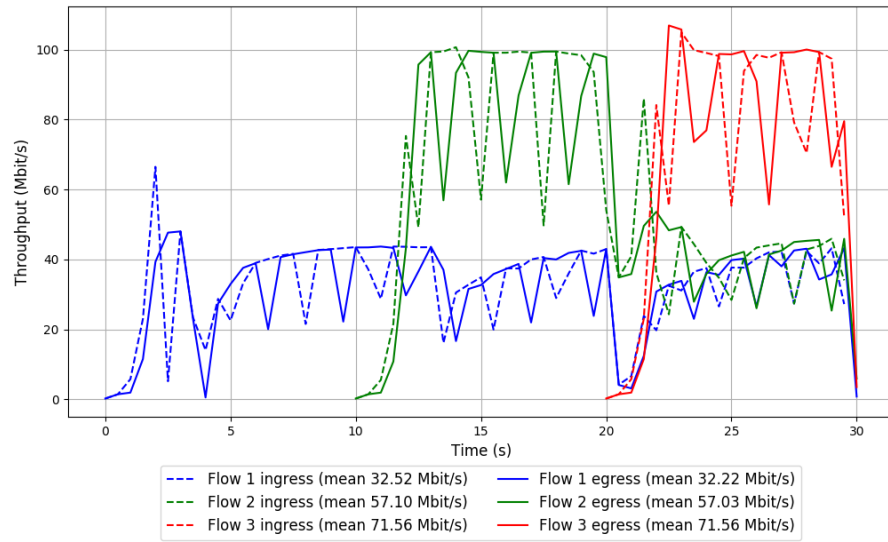
-- Flow 3:

Average throughput: 71.56 Mbit/s

95th percentile per-packet one-way delay: 147.318 ms

Loss rate: 0.00%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2017-12-01 13:06:44

End at: 2017-12-01 13:07:14

Below is generated by plot.py at 2017-12-01 14:13:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 106.27 Mbit/s

95th percentile per-packet one-way delay: 146.189 ms

Loss rate: 0.14%

-- Flow 1:

Average throughput: 45.56 Mbit/s

95th percentile per-packet one-way delay: 142.680 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 56.42 Mbit/s

95th percentile per-packet one-way delay: 144.097 ms

Loss rate: 0.05%

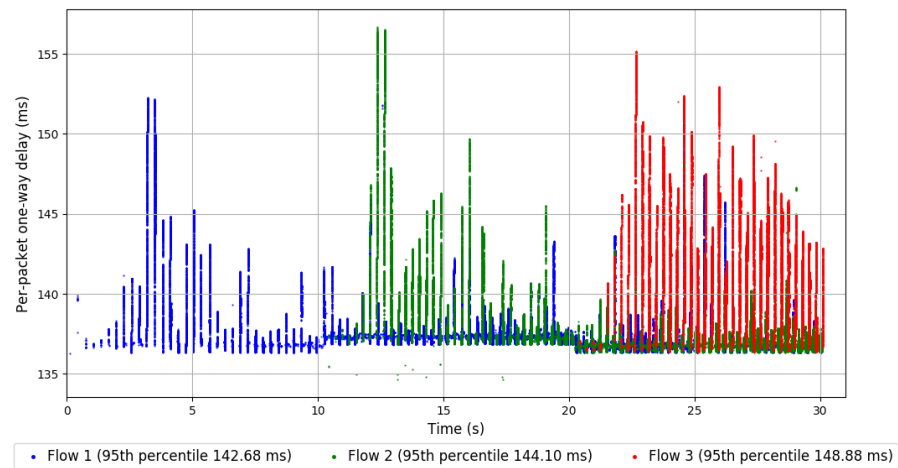
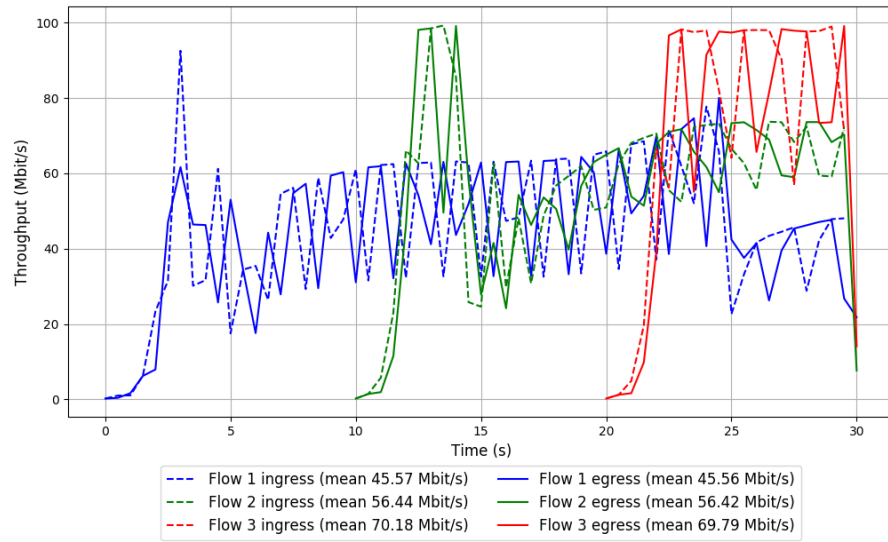
-- Flow 3:

Average throughput: 69.79 Mbit/s

95th percentile per-packet one-way delay: 148.878 ms

Loss rate: 0.56%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2017-12-01 13:20:20

End at: 2017-12-01 13:20:50

Below is generated by plot.py at 2017-12-01 14:13:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.81 Mbit/s

95th percentile per-packet one-way delay: 141.577 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 41.68 Mbit/s

95th percentile per-packet one-way delay: 140.229 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 46.41 Mbit/s

95th percentile per-packet one-way delay: 141.540 ms

Loss rate: 0.11%

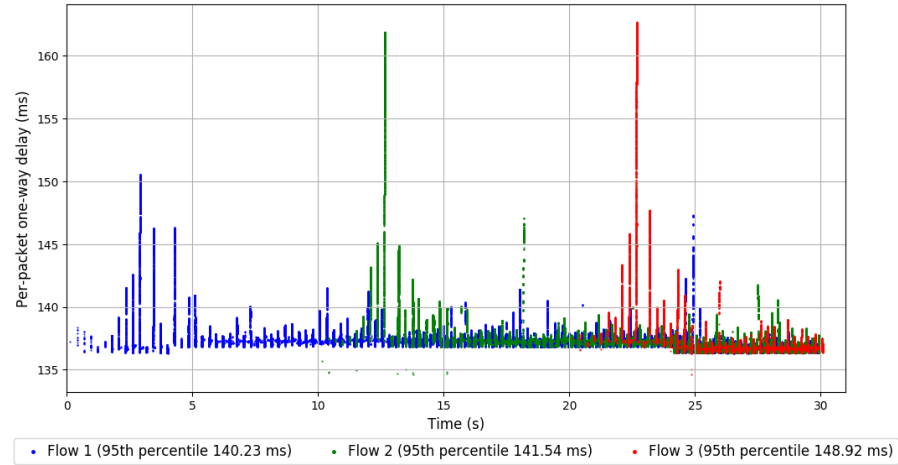
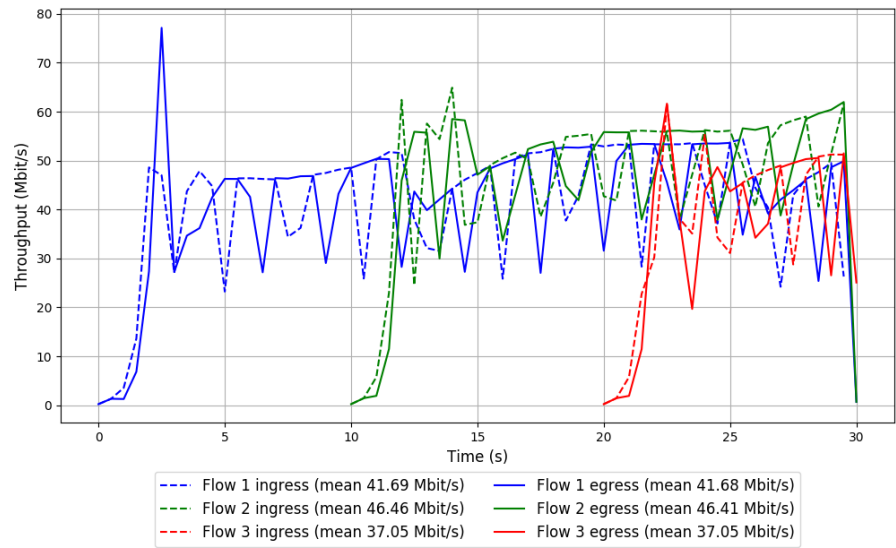
-- Flow 3:

Average throughput: 37.05 Mbit/s

95th percentile per-packet one-way delay: 148.918 ms

Loss rate: 0.00%

Run 10: Report of TCP Cubic — Data Link

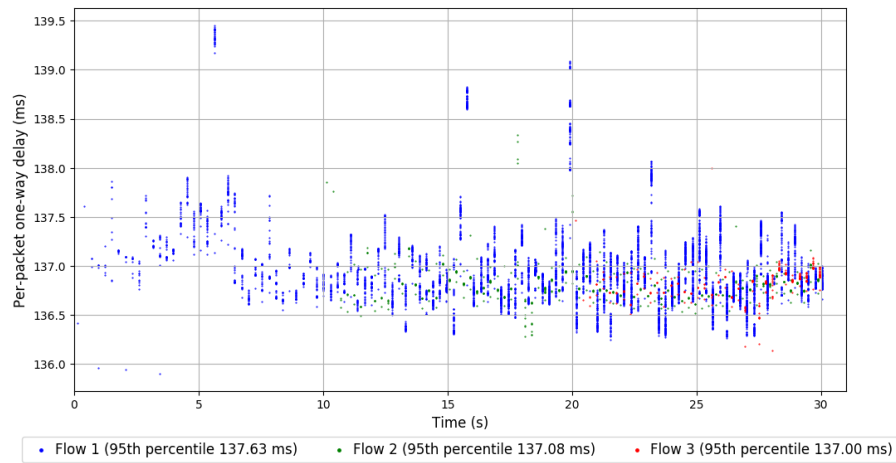
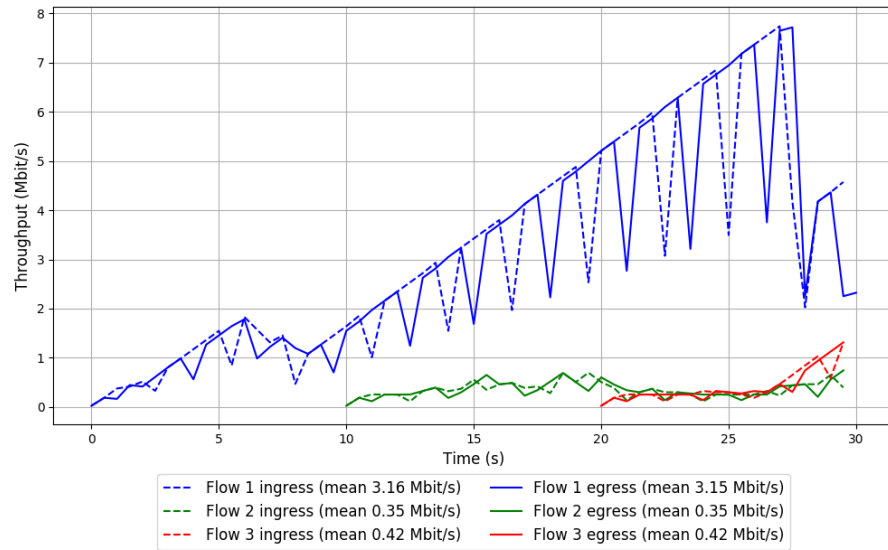


```
Run 1: Statistics of LEDBAT

Start at: 2017-12-01 11:16:17
End at: 2017-12-01 11:16:47

# Below is generated by plot.py at 2017-12-01 14:13:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.52 Mbit/s
95th percentile per-packet one-way delay: 137.578 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 3.15 Mbit/s
95th percentile per-packet one-way delay: 137.630 ms
Loss rate: 0.09%
-- Flow 2:
Average throughput: 0.35 Mbit/s
95th percentile per-packet one-way delay: 137.079 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.42 Mbit/s
95th percentile per-packet one-way delay: 136.998 ms
Loss rate: 0.00%
```


Run 1: Report of LEDBAT — Data Link

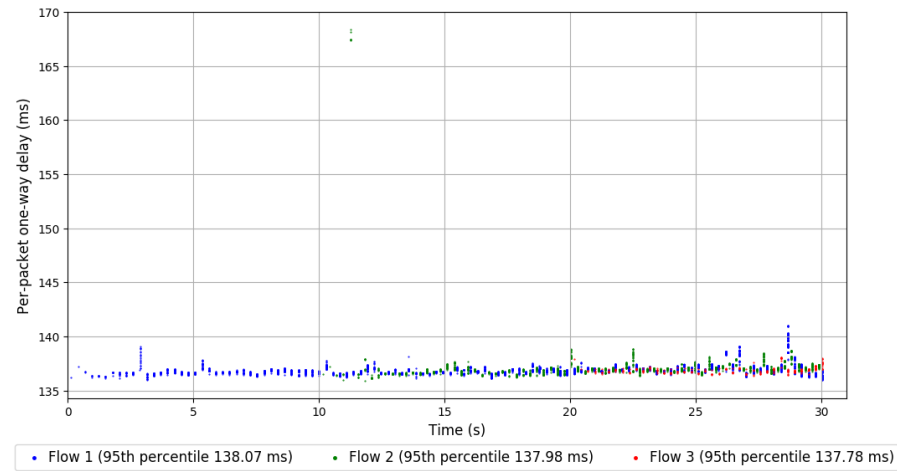
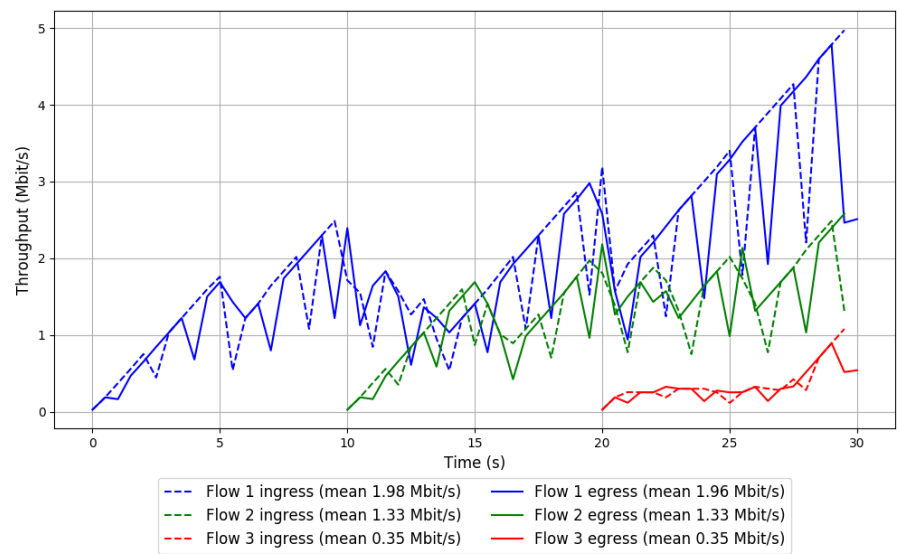


```
Run 2: Statistics of LEDBAT

Start at: 2017-12-01 11:30:14
End at: 2017-12-01 11:30:44

# Below is generated by plot.py at 2017-12-01 14:13:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 2.96 Mbit/s
95th percentile per-packet one-way delay: 138.014 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 1.96 Mbit/s
95th percentile per-packet one-way delay: 138.066 ms
Loss rate: 0.75%
-- Flow 2:
Average throughput: 1.33 Mbit/s
95th percentile per-packet one-way delay: 137.978 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 0.35 Mbit/s
95th percentile per-packet one-way delay: 137.783 ms
Loss rate: 0.34%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2017-12-01 11:43:45

End at: 2017-12-01 11:44:15

Below is generated by plot.py at 2017-12-01 14:13:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.76 Mbit/s

95th percentile per-packet one-way delay: 137.629 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 3.56 Mbit/s

95th percentile per-packet one-way delay: 137.725 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.21 Mbit/s

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

Loss rate: 0.00%

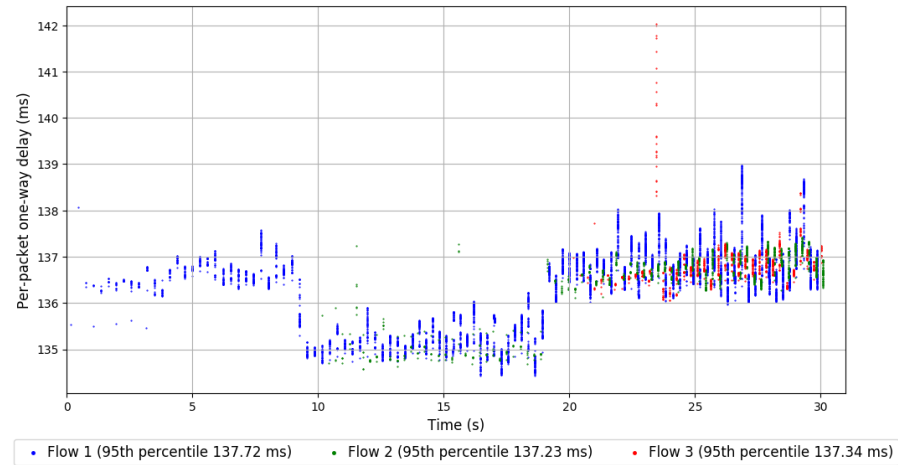
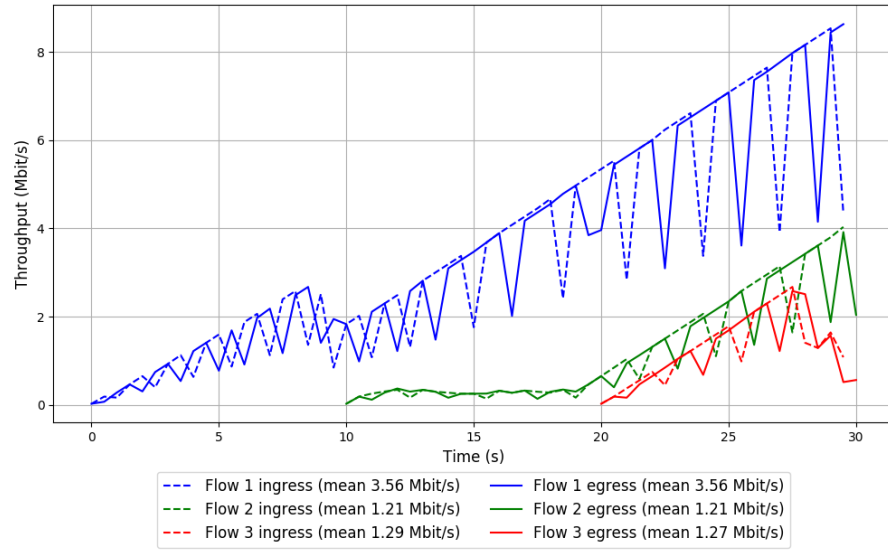
-- Flow 3:

Average throughput: 1.27 Mbit/s

95th percentile per-packet one-way delay: 137.343 ms

Loss rate: 1.30%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2017-12-01 11:57:45

End at: 2017-12-01 11:58:15

Below is generated by plot.py at 2017-12-01 14:13:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 2.66 Mbit/s

95th percentile per-packet one-way delay: 137.503 ms

Loss rate: 0.61%

-- Flow 1:

Average throughput: 1.62 Mbit/s

95th percentile per-packet one-way delay: 137.496 ms

Loss rate: 1.01%

-- Flow 2:

Average throughput: 1.31 Mbit/s

95th percentile per-packet one-way delay: 137.687 ms

Loss rate: 0.00%

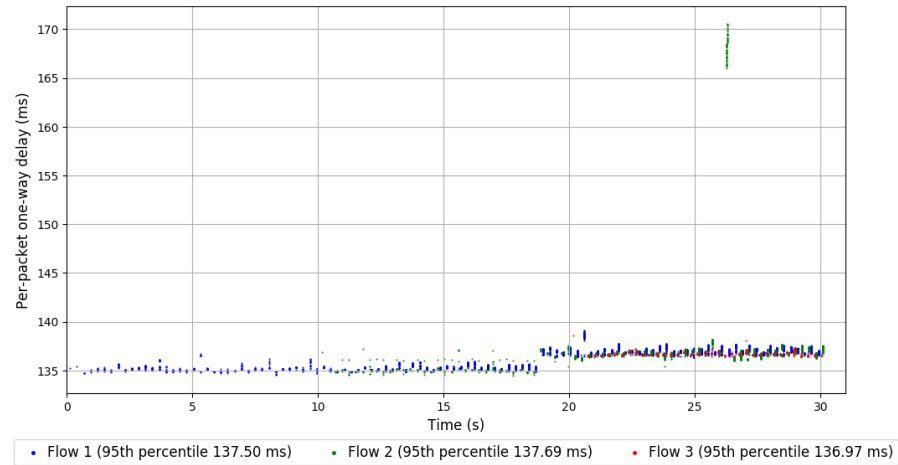
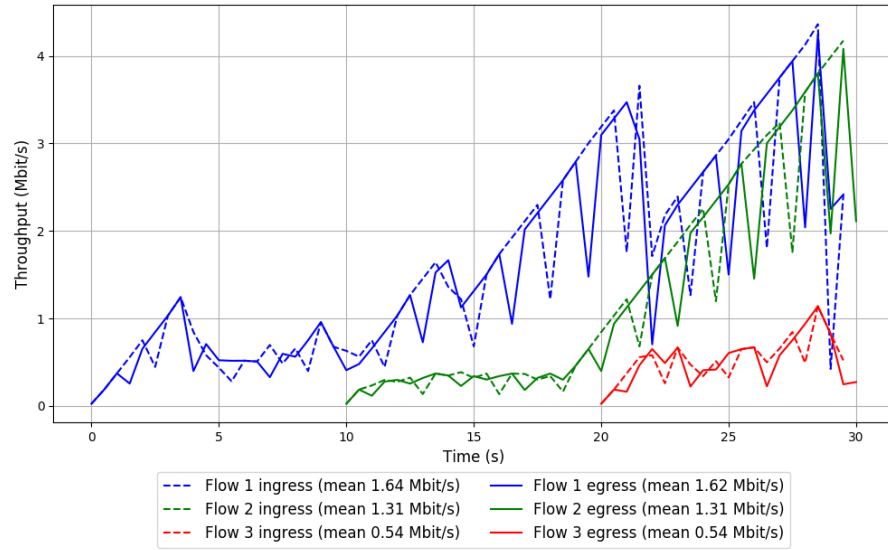
-- Flow 3:

Average throughput: 0.54 Mbit/s

95th percentile per-packet one-way delay: 136.970 ms

Loss rate: 0.00%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2017-12-01 12:11:54

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

Below is generated by plot.py at 2017-12-01 14:13:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.20 Mbit/s

95th percentile per-packet one-way delay: 137.823 ms

Loss rate: 0.60%

-- Flow 1:

Average throughput: 1.66 Mbit/s

95th percentile per-packet one-way delay: 138.235 ms

Loss rate: 1.32%

-- Flow 2:

Average throughput: 1.99 Mbit/s

95th percentile per-packet one-way delay: 137.473 ms

Loss rate: 0.00%

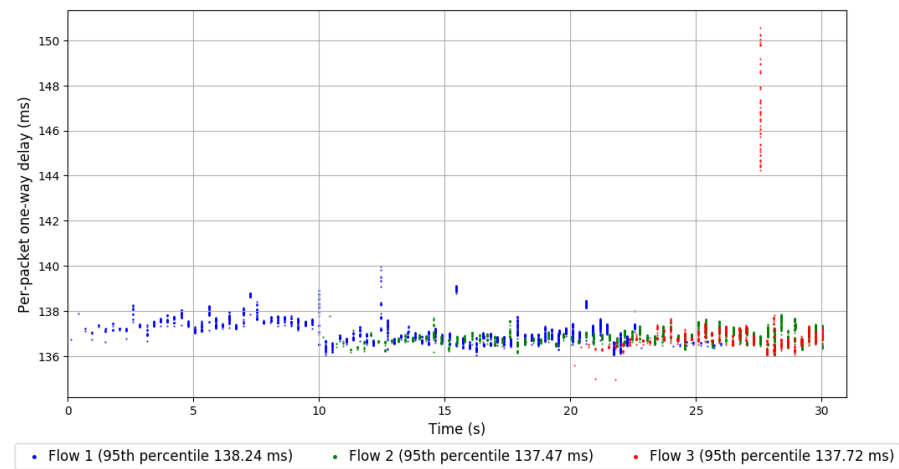
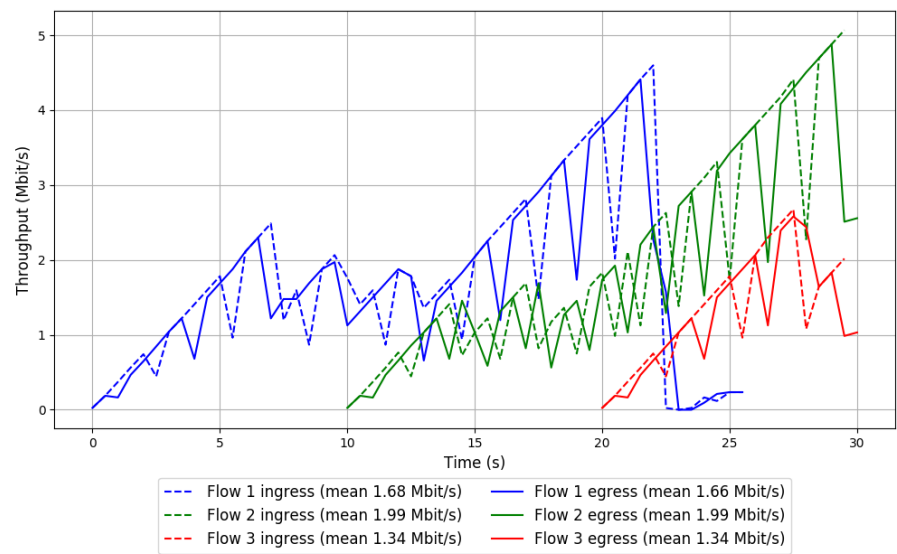
-- Flow 3:

Average throughput: 1.34 Mbit/s

95th percentile per-packet one-way delay: 137.718 ms

Loss rate: 0.00%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2017-12-01 12:25:53

End at: 2017-12-01 12:26:23

Below is generated by plot.py at 2017-12-01 14:13:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.36 Mbit/s

95th percentile per-packet one-way delay: 137.900 ms

Loss rate: 0.80%

-- Flow 1:

Average throughput: 1.16 Mbit/s

95th percentile per-packet one-way delay: 138.274 ms

Loss rate: 1.70%

-- Flow 2:

Average throughput: 2.57 Mbit/s

95th percentile per-packet one-way delay: 137.853 ms

Loss rate: 0.41%

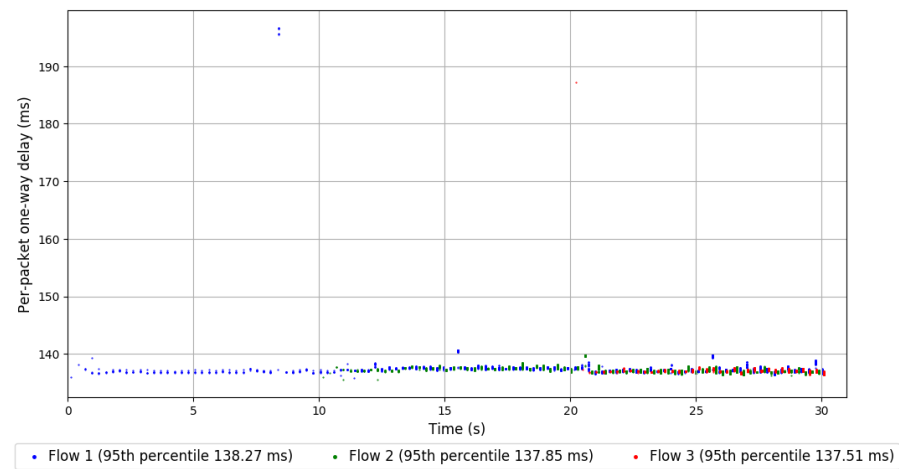
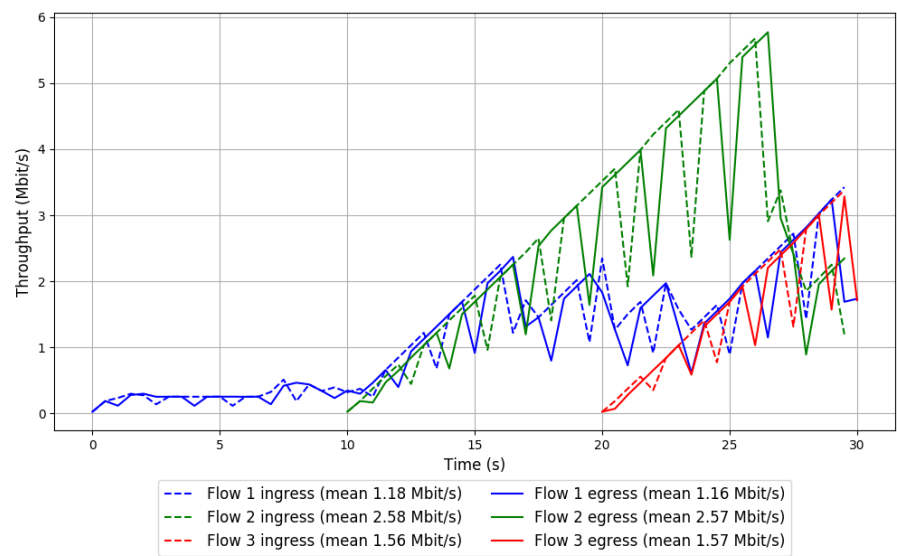
-- Flow 3:

Average throughput: 1.57 Mbit/s

95th percentile per-packet one-way delay: 137.508 ms

Loss rate: 0.00%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2017-12-01 12:39:23

End at: 2017-12-01 12:39:53

Below is generated by plot.py at 2017-12-01 14:13:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 2.35 Mbit/s

95th percentile per-packet one-way delay: 138.390 ms

Loss rate: 0.70%

-- Flow 1:

Average throughput: 1.27 Mbit/s

95th percentile per-packet one-way delay: 138.335 ms

Loss rate: 0.77%

-- Flow 2:

Average throughput: 1.48 Mbit/s

95th percentile per-packet one-way delay: 138.536 ms

Loss rate: 0.68%

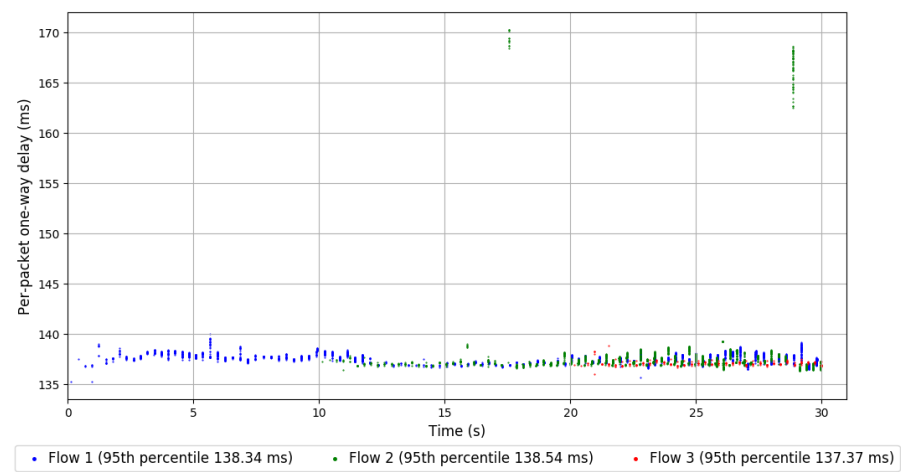
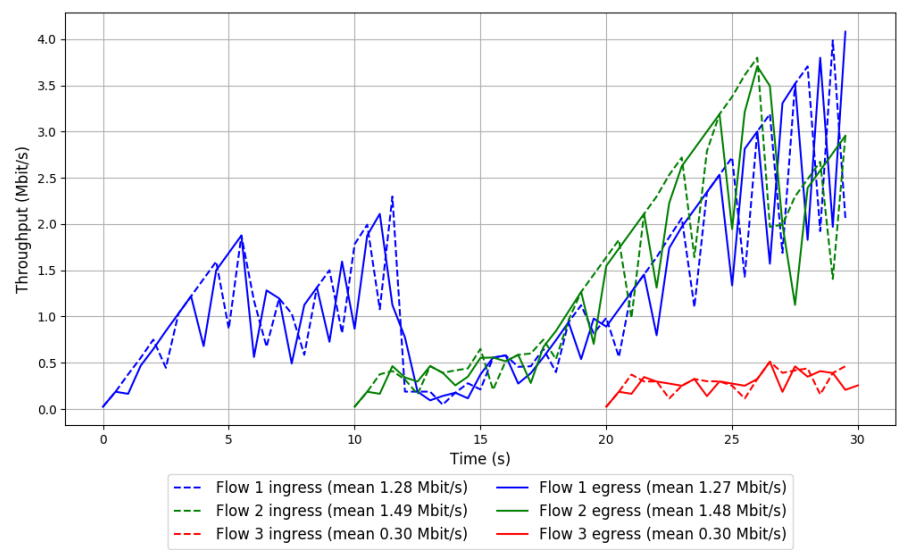
-- Flow 3:

Average throughput: 0.30 Mbit/s

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

Loss rate: 0.00%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

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

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

Below is generated by plot.py at 2017-12-01 14:13:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.25 Mbit/s

95th percentile per-packet one-way delay: 137.515 ms

Loss rate: 2.22%

-- Flow 1:

Average throughput: 2.51 Mbit/s

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

Loss rate: 2.38%

-- Flow 2:

Average throughput: 0.89 Mbit/s

95th percentile per-packet one-way delay: 137.205 ms

Loss rate: 2.08%

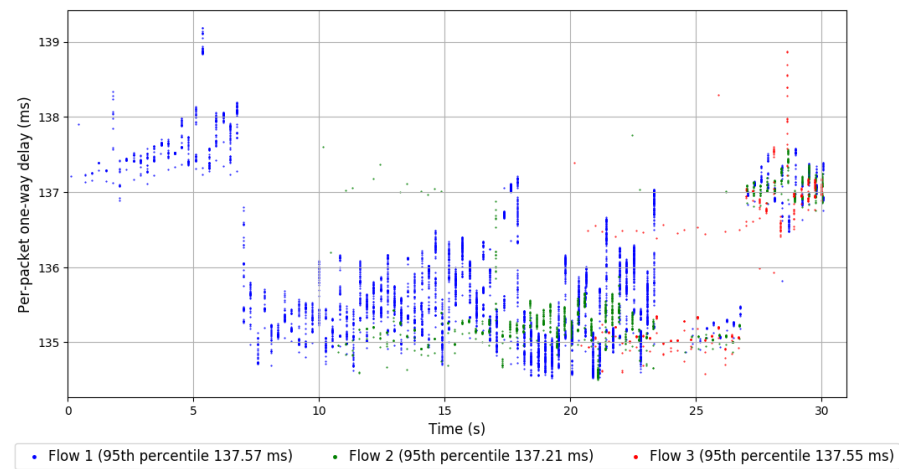
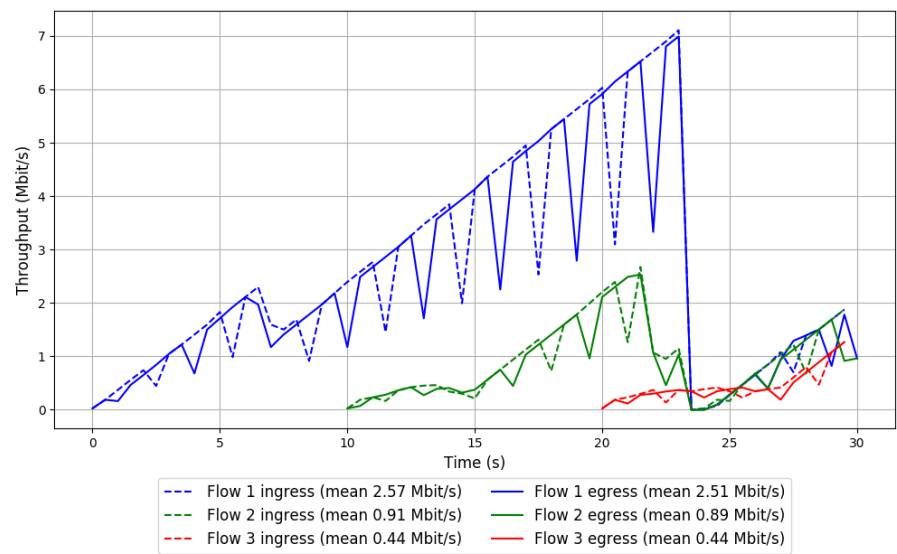
-- Flow 3:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 137.554 ms

Loss rate: 0.00%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2017-12-01 13:07:40

End at: 2017-12-01 13:08:10

Below is generated by plot.py at 2017-12-01 14:13:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.55 Mbit/s

95th percentile per-packet one-way delay: 137.585 ms

Loss rate: 0.41%

-- Flow 1:

Average throughput: 1.97 Mbit/s

95th percentile per-packet one-way delay: 137.720 ms

Loss rate: 0.36%

-- Flow 2:

Average throughput: 2.19 Mbit/s

95th percentile per-packet one-way delay: 137.410 ms

Loss rate: 0.51%

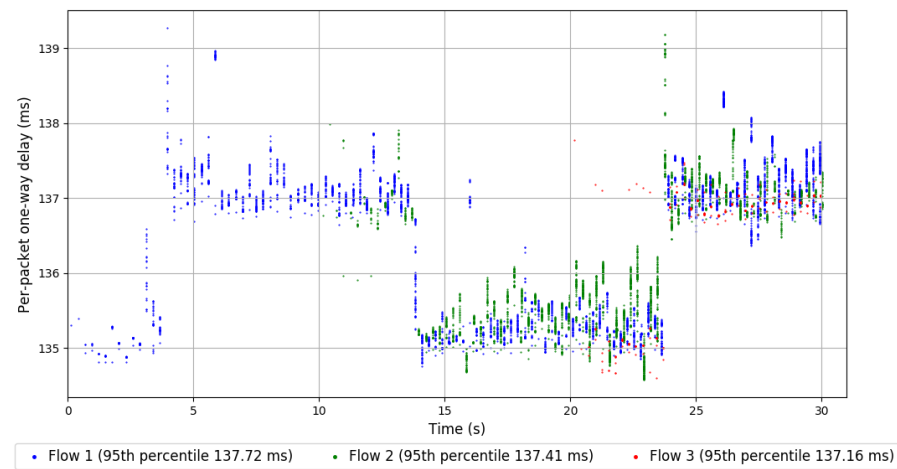
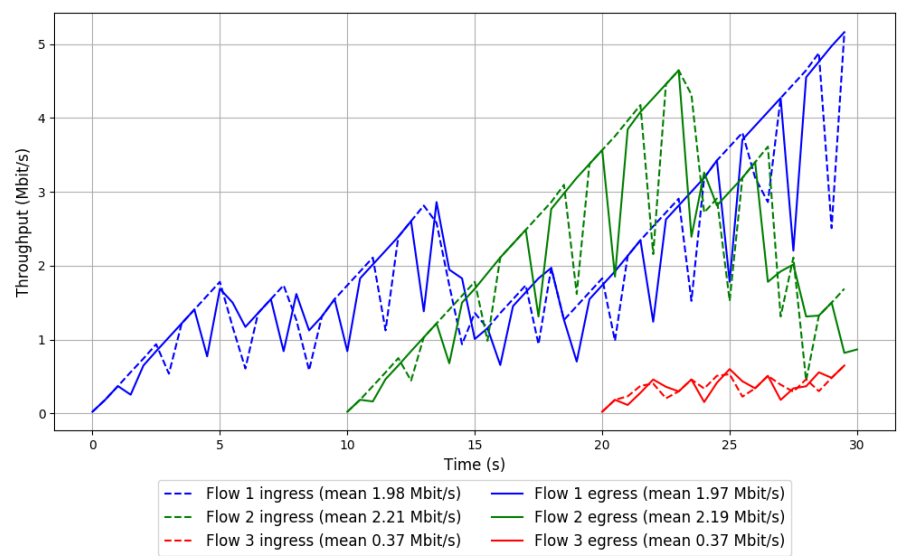
-- Flow 3:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 137.162 ms

Loss rate: 0.00%

Run 9: Report of LEDBAT — Data Link

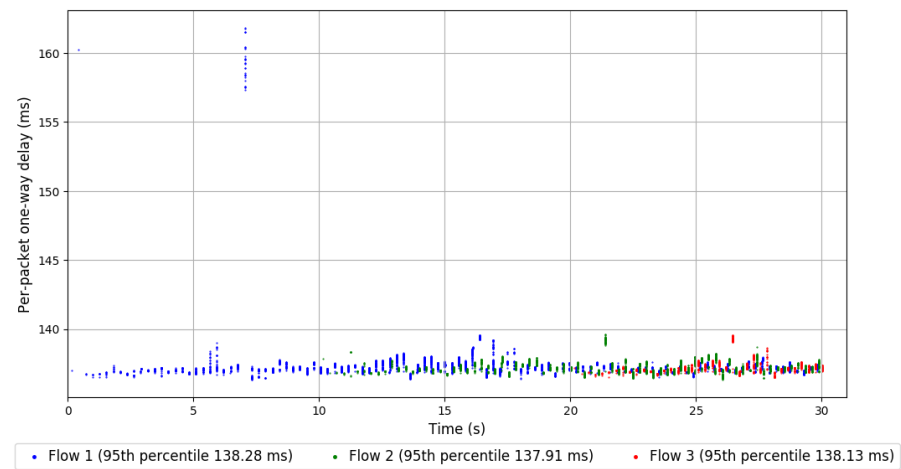
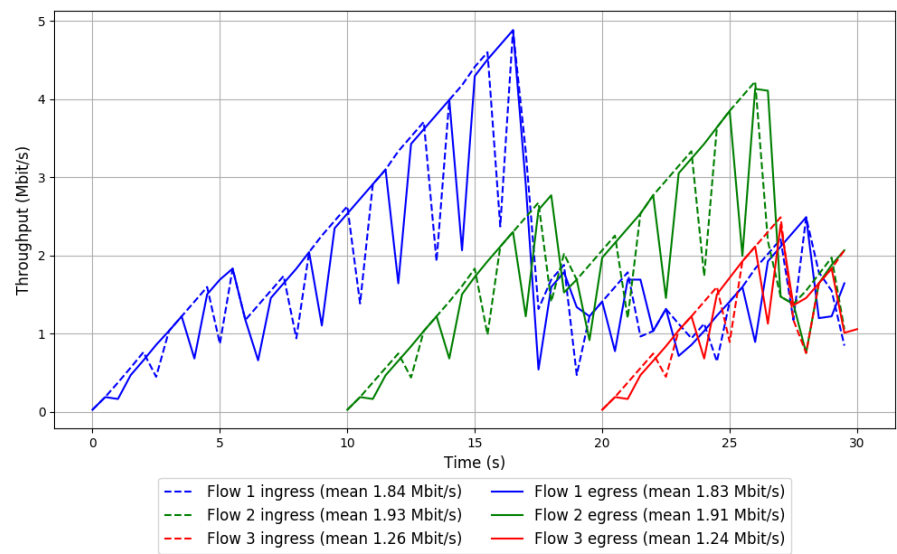


```
Run 10: Statistics of LEDBAT

Start at: 2017-12-01 13:21:15
End at: 2017-12-01 13:21:45

# Below is generated by plot.py at 2017-12-01 14:13:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.49 Mbit/s
95th percentile per-packet one-way delay: 138.070 ms
Loss rate: 0.90%
-- Flow 1:
Average throughput: 1.83 Mbit/s
95th percentile per-packet one-way delay: 138.280 ms
Loss rate: 0.75%
-- Flow 2:
Average throughput: 1.91 Mbit/s
95th percentile per-packet one-way delay: 137.914 ms
Loss rate: 0.93%
-- Flow 3:
Average throughput: 1.24 Mbit/s
95th percentile per-packet one-way delay: 138.131 ms
Loss rate: 1.52%
```

Run 10: Report of LEDBAT — Data Link

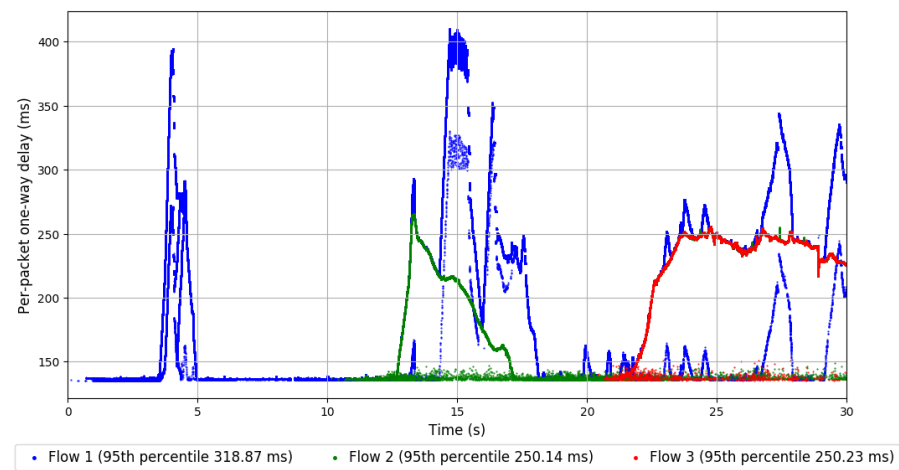
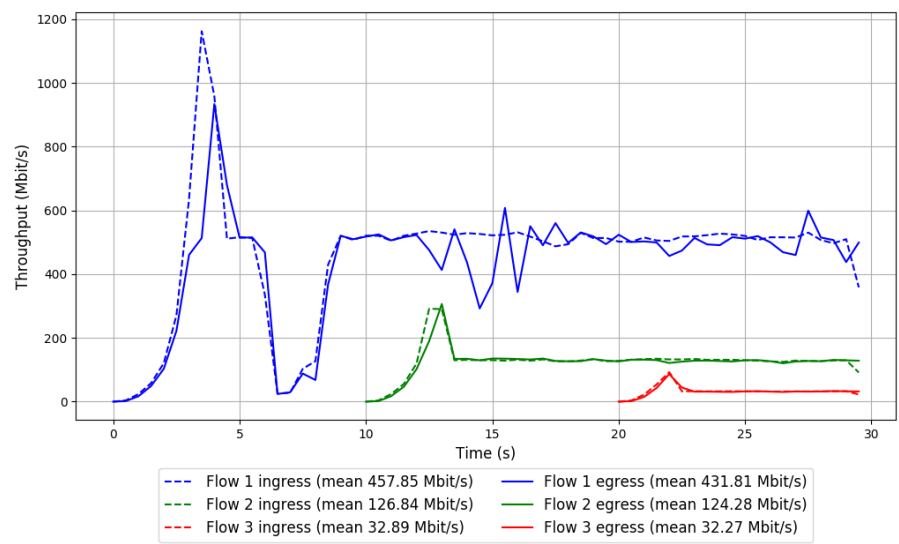


```
Run 1: Statistics of PCC

Start at: 2017-12-01 11:09:00
End at: 2017-12-01 11:09:30

# Below is generated by plot.py at 2017-12-01 14:21:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 525.05 Mbit/s
95th percentile per-packet one-way delay: 311.616 ms
Loss rate: 5.05%
-- Flow 1:
Average throughput: 431.81 Mbit/s
95th percentile per-packet one-way delay: 318.868 ms
Loss rate: 5.68%
-- Flow 2:
Average throughput: 124.28 Mbit/s
95th percentile per-packet one-way delay: 250.142 ms
Loss rate: 2.02%
-- Flow 3:
Average throughput: 32.27 Mbit/s
95th percentile per-packet one-way delay: 250.229 ms
Loss rate: 1.92%
```

Run 1: Report of PCC — Data Link

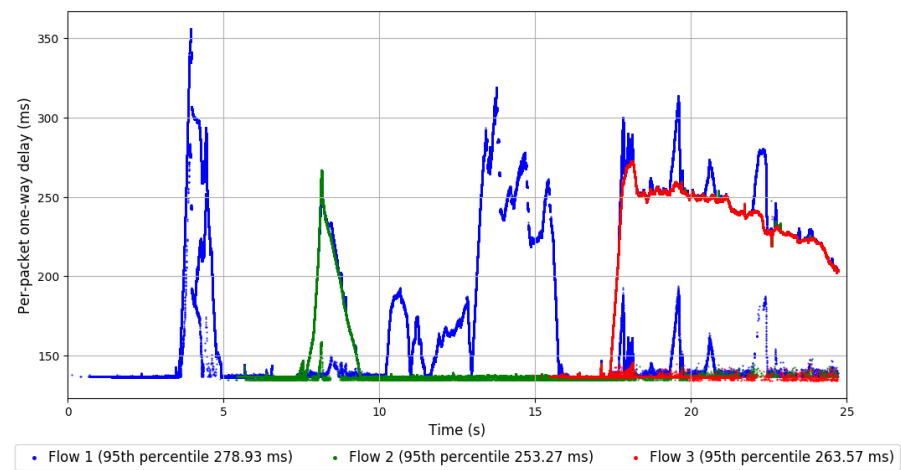
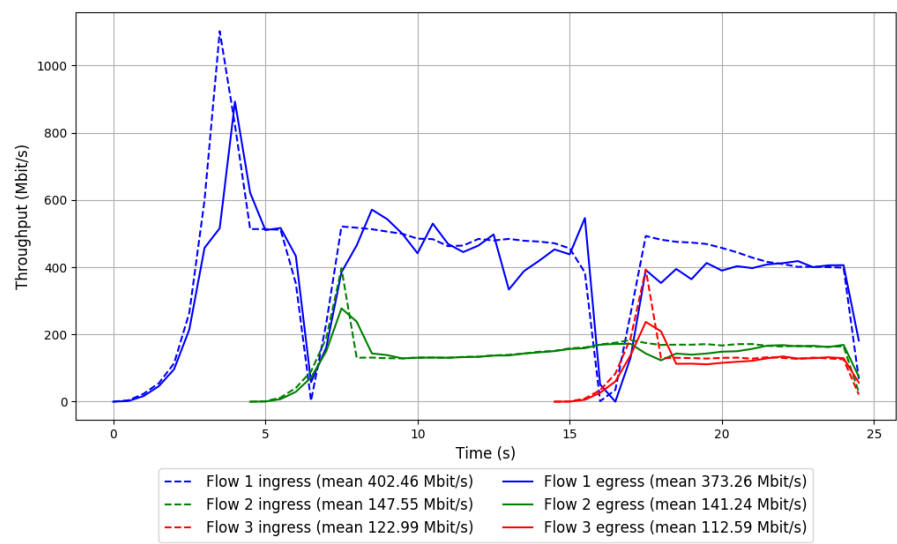


```
Run 2: Statistics of PCC

Start at: 2017-12-01 11:22:59
End at: 2017-12-01 11:23:29

# Below is generated by plot.py at 2017-12-01 14:21:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 532.16 Mbit/s
95th percentile per-packet one-way delay: 272.797 ms
Loss rate: 6.74%
-- Flow 1:
Average throughput: 373.26 Mbit/s
95th percentile per-packet one-way delay: 278.929 ms
Loss rate: 7.26%
-- Flow 2:
Average throughput: 141.24 Mbit/s
95th percentile per-packet one-way delay: 253.269 ms
Loss rate: 4.27%
-- Flow 3:
Average throughput: 112.59 Mbit/s
95th percentile per-packet one-way delay: 263.571 ms
Loss rate: 8.48%
```

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2017-12-01 11:36:25

End at: 2017-12-01 11:36:55

Below is generated by plot.py at 2017-12-01 14:21:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 401.36 Mbit/s

95th percentile per-packet one-way delay: 288.825 ms

Loss rate: 3.04%

-- Flow 1:

Average throughput: 40.29 Mbit/s

95th percentile per-packet one-way delay: 243.128 ms

Loss rate: 1.02%

-- Flow 2:

Average throughput: 493.35 Mbit/s

95th percentile per-packet one-way delay: 296.587 ms

Loss rate: 3.33%

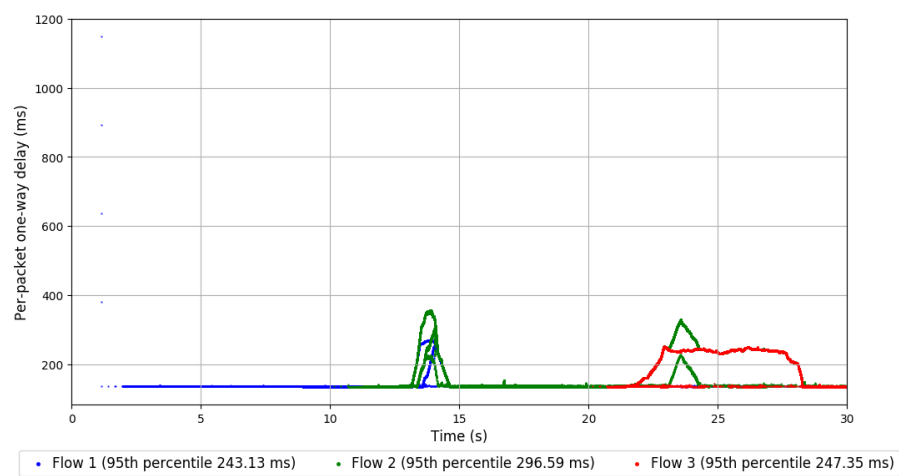
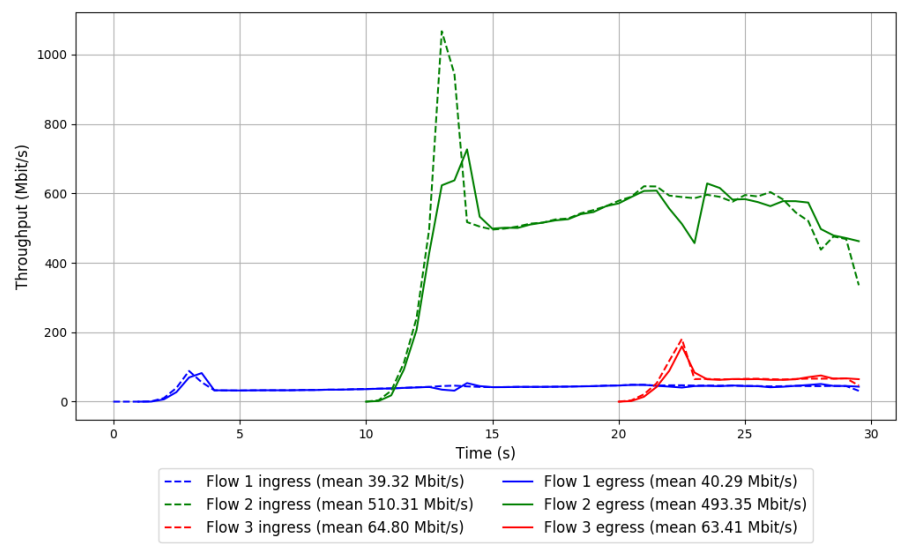
-- Flow 3:

Average throughput: 63.41 Mbit/s

95th percentile per-packet one-way delay: 247.350 ms

Loss rate: 2.16%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2017-12-01 11:50:32

End at: 2017-12-01 11:51:02

Below is generated by plot.py at 2017-12-01 14:21:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 562.49 Mbit/s

95th percentile per-packet one-way delay: 302.940 ms

Loss rate: 4.06%

-- Flow 1:

Average throughput: 470.97 Mbit/s

95th percentile per-packet one-way delay: 308.743 ms

Loss rate: 4.52%

-- Flow 2:

Average throughput: 121.77 Mbit/s

95th percentile per-packet one-way delay: 239.352 ms

Loss rate: 1.72%

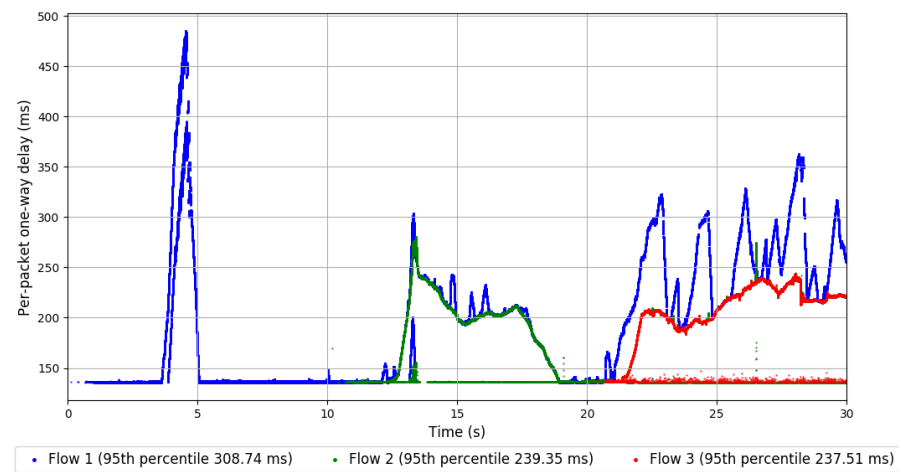
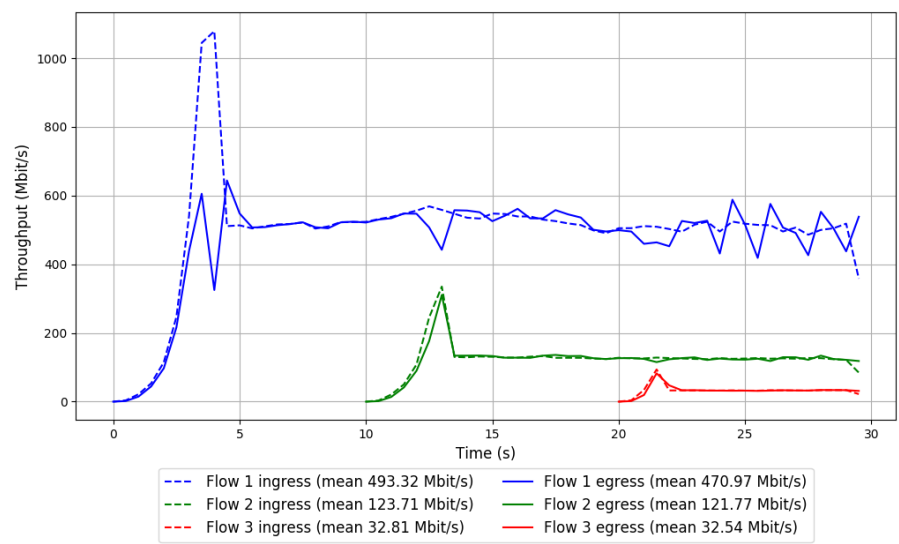
-- Flow 3:

Average throughput: 32.54 Mbit/s

95th percentile per-packet one-way delay: 237.507 ms

Loss rate: 0.83%

Run 4: Report of PCC — Data Link

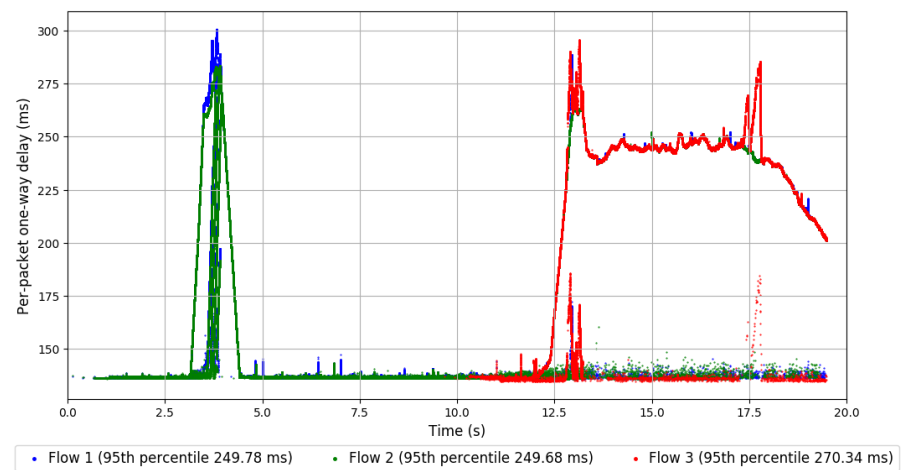
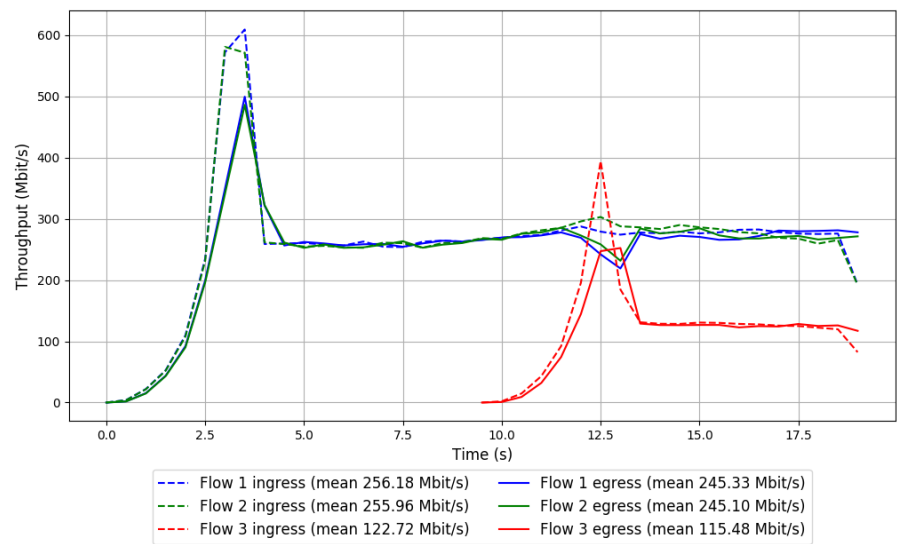


Run 5: Statistics of PCC

Start at: 2017-12-01 12:04:42

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

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2017-12-01 12:18:31

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

Below is generated by plot.py at 2017-12-01 14:22:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 550.57 Mbit/s

95th percentile per-packet one-way delay: 264.907 ms

Loss rate: 3.59%

-- Flow 1:

Average throughput: 450.39 Mbit/s

95th percentile per-packet one-way delay: 275.945 ms

Loss rate: 3.86%

-- Flow 2:

Average throughput: 134.56 Mbit/s

95th percentile per-packet one-way delay: 246.161 ms

Loss rate: 2.29%

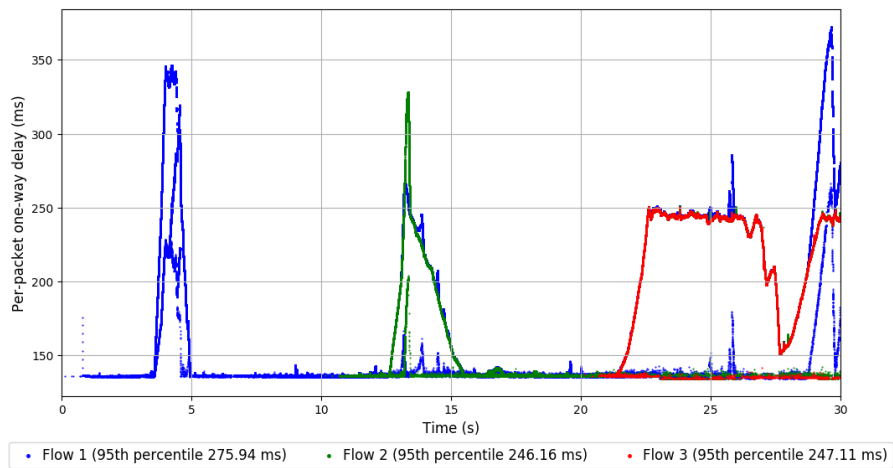
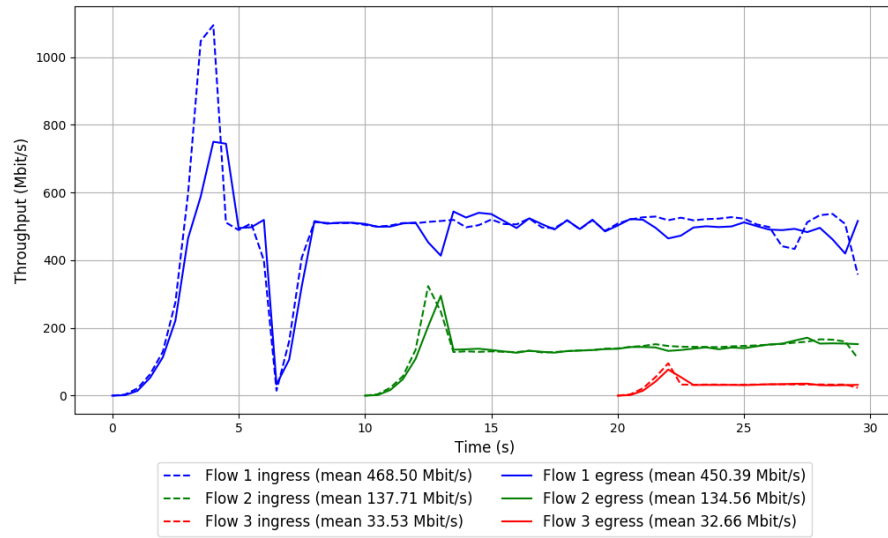
-- Flow 3:

Average throughput: 32.66 Mbit/s

95th percentile per-packet one-way delay: 247.113 ms

Loss rate: 2.59%

Run 6: Report of PCC — Data Link

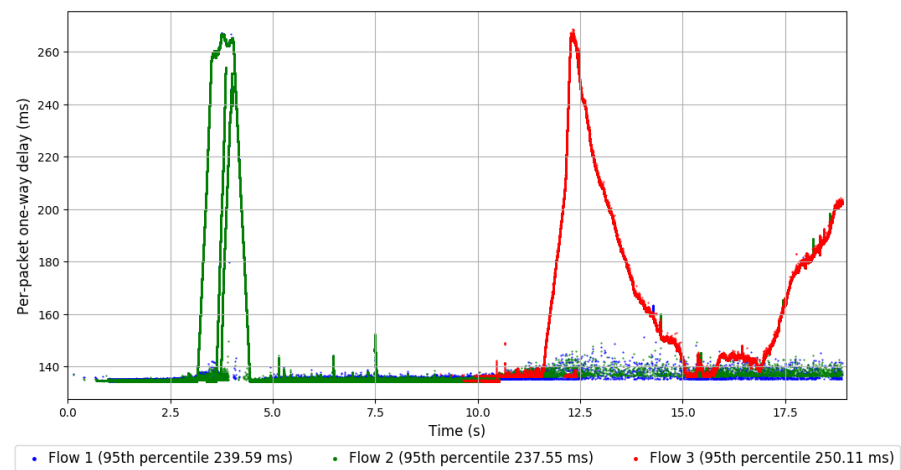
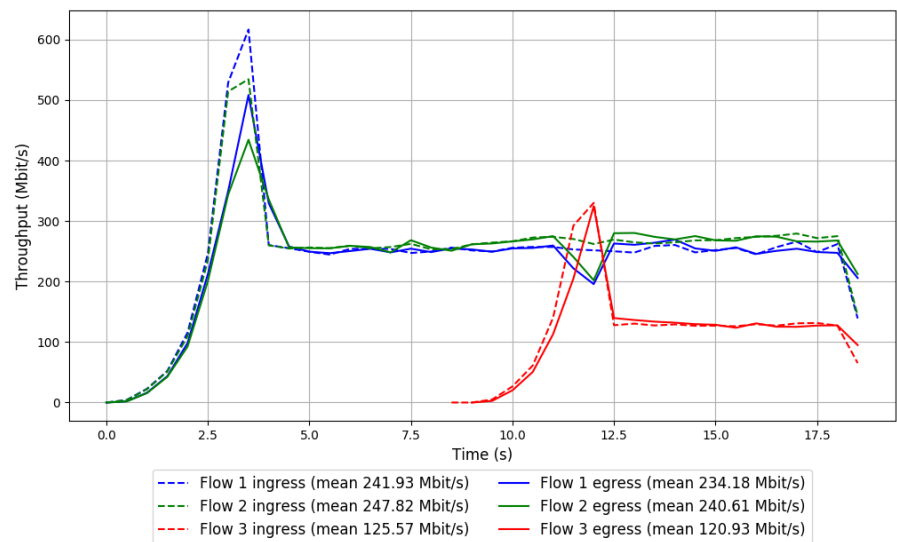


Run 7: Statistics of PCC

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

End at: 2017-12-01 12:32:42

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2017-12-01 12:45:55

End at: 2017-12-01 12:46:25

Below is generated by plot.py at 2017-12-01 14:22:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 558.95 Mbit/s

95th percentile per-packet one-way delay: 269.252 ms

Loss rate: 5.42%

-- Flow 1:

Average throughput: 450.17 Mbit/s

95th percentile per-packet one-way delay: 272.430 ms

Loss rate: 6.52%

-- Flow 2:

Average throughput: 127.75 Mbit/s

95th percentile per-packet one-way delay: 208.335 ms

Loss rate: 0.62%

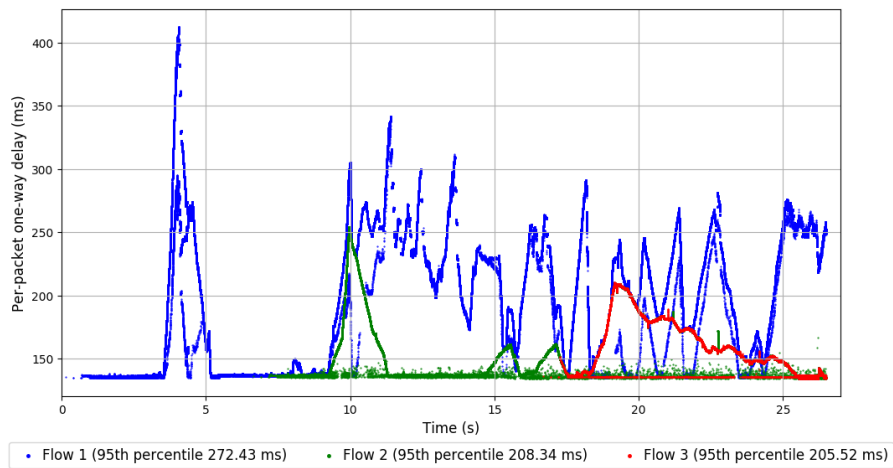
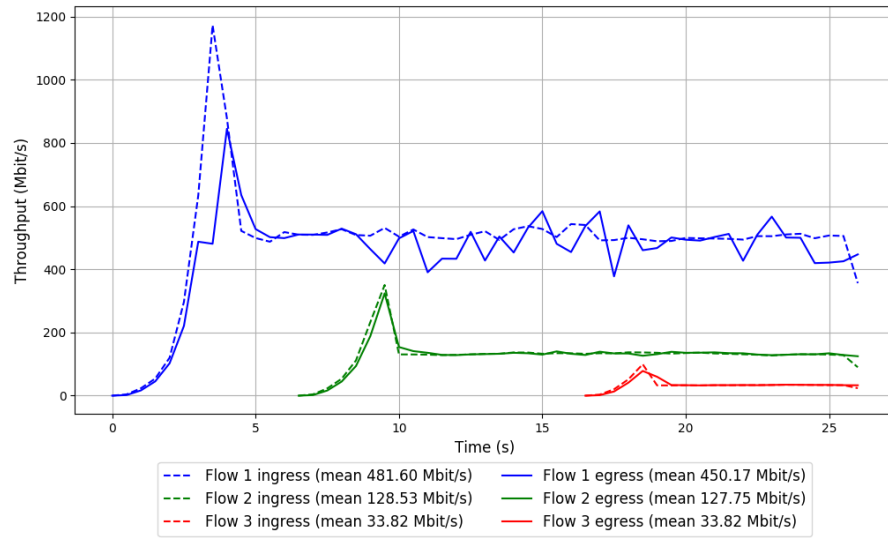
-- Flow 3:

Average throughput: 33.82 Mbit/s

95th percentile per-packet one-way delay: 205.517 ms

Loss rate: 0.01%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2017-12-01 13:00:20

End at: 2017-12-01 13:00:50

Below is generated by plot.py at 2017-12-01 14:28:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 484.38 Mbit/s

95th percentile per-packet one-way delay: 256.283 ms

Loss rate: 2.64%

-- Flow 1:

Average throughput: 296.93 Mbit/s

95th percentile per-packet one-way delay: 271.144 ms

Loss rate: 2.54%

-- Flow 2:

Average throughput: 251.78 Mbit/s

95th percentile per-packet one-way delay: 249.522 ms

Loss rate: 2.78%

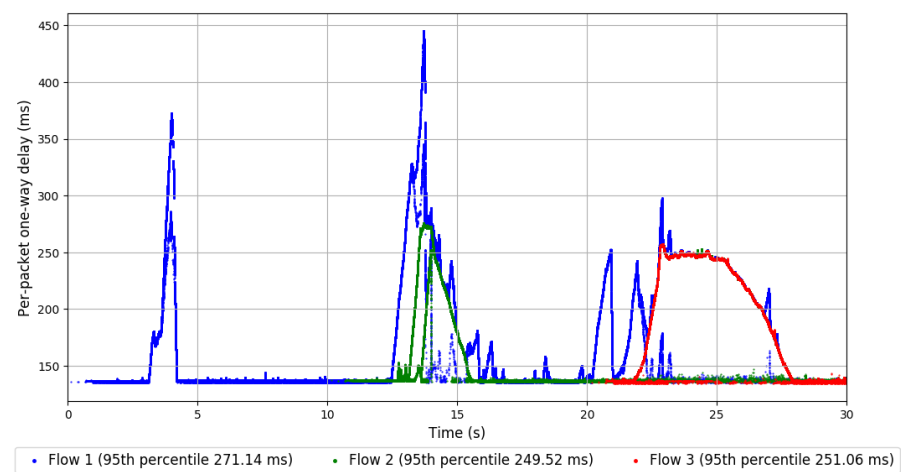
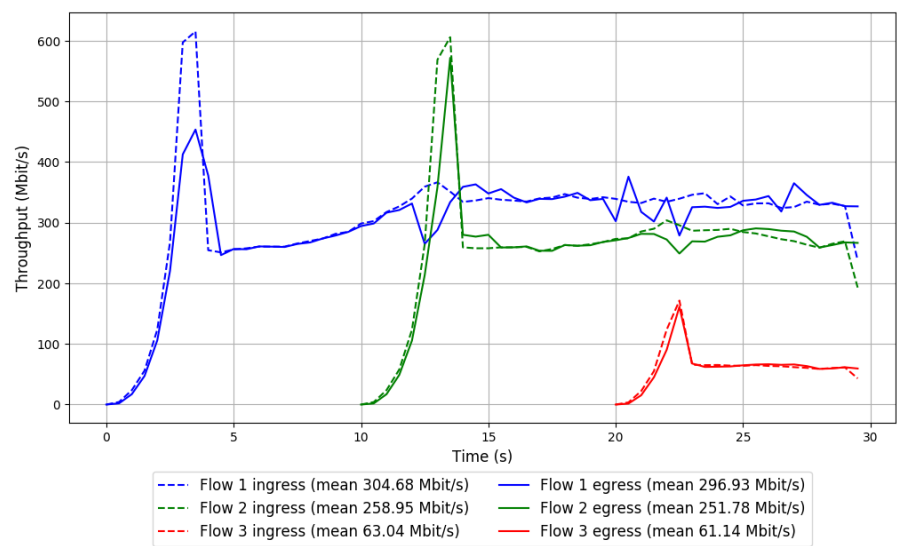
-- Flow 3:

Average throughput: 61.14 Mbit/s

95th percentile per-packet one-way delay: 251.060 ms

Loss rate: 2.99%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2017-12-01 13:13:57

End at: 2017-12-01 13:14:27

Below is generated by plot.py at 2017-12-01 14:29:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 540.54 Mbit/s

95th percentile per-packet one-way delay: 363.534 ms

Loss rate: 7.59%

-- Flow 1:

Average throughput: 432.81 Mbit/s

95th percentile per-packet one-way delay: 368.254 ms

Loss rate: 8.81%

-- Flow 2:

Average throughput: 131.40 Mbit/s

95th percentile per-packet one-way delay: 243.710 ms

Loss rate: 1.90%

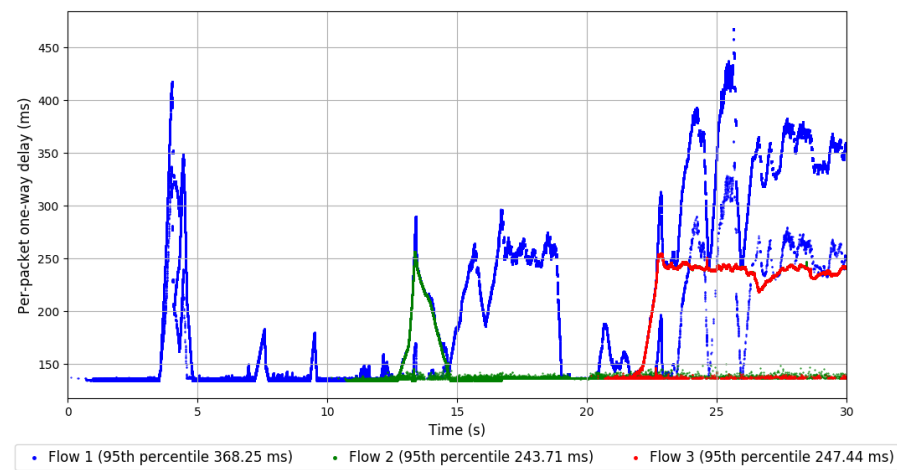
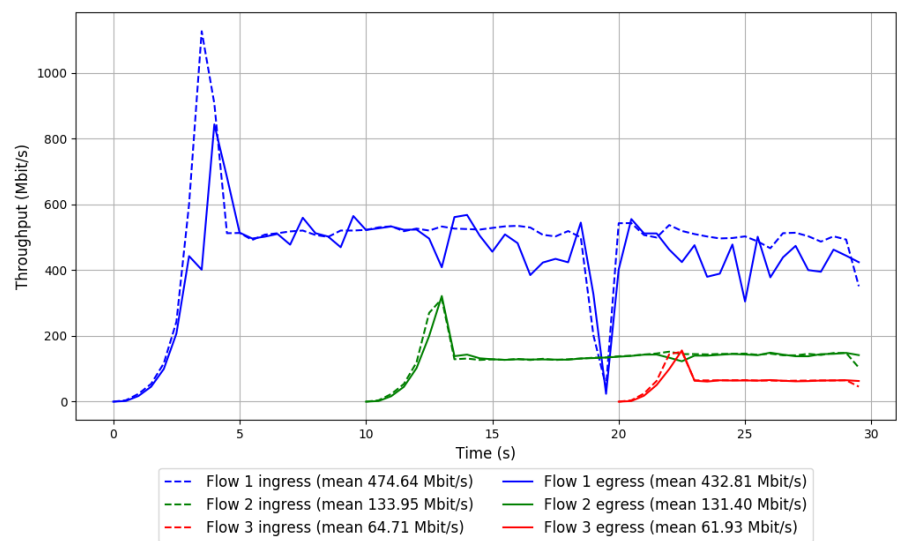
-- Flow 3:

Average throughput: 61.93 Mbit/s

95th percentile per-packet one-way delay: 247.435 ms

Loss rate: 4.29%

Run 10: Report of PCC — Data Link

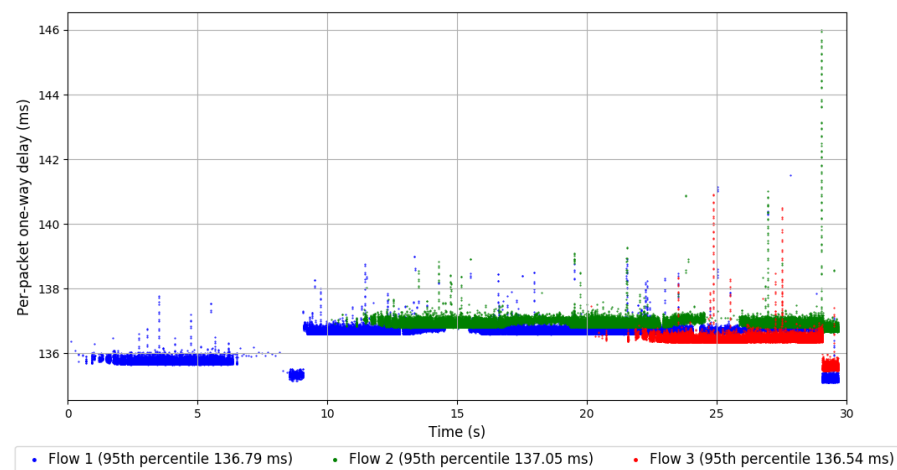
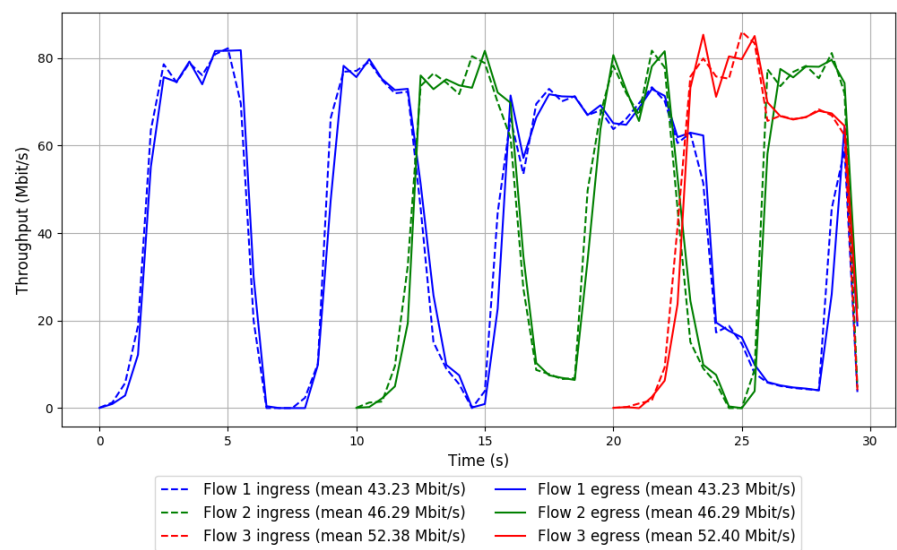


```
Run 1: Statistics of QUIC Cubic

Start at: 2017-12-01 11:11:04
End at: 2017-12-01 11:11:34

# Below is generated by plot.py at 2017-12-01 14:29:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.71 Mbit/s
95th percentile per-packet one-way delay: 136.972 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 43.23 Mbit/s
95th percentile per-packet one-way delay: 136.786 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 46.29 Mbit/s
95th percentile per-packet one-way delay: 137.046 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 52.40 Mbit/s
95th percentile per-packet one-way delay: 136.545 ms
Loss rate: 0.00%
```


Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2017-12-01 11:24:59

End at: 2017-12-01 11:25:29

Below is generated by plot.py at 2017-12-01 14:29:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 104.21 Mbit/s

95th percentile per-packet one-way delay: 137.032 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 56.70 Mbit/s

95th percentile per-packet one-way delay: 136.986 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 45.41 Mbit/s

95th percentile per-packet one-way delay: 137.048 ms

Loss rate: 0.00%

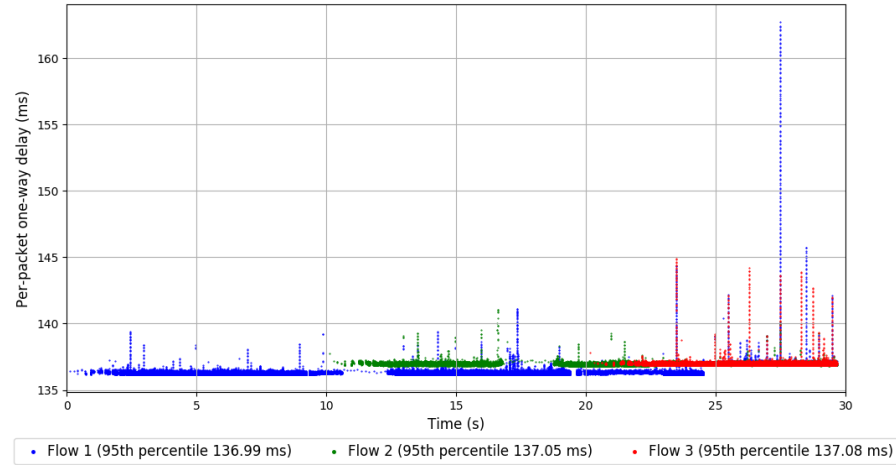
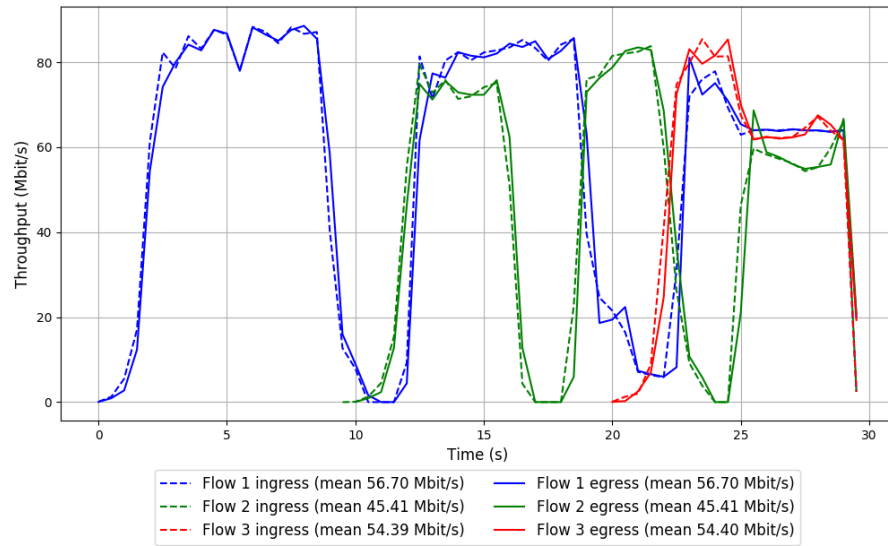
-- Flow 3:

Average throughput: 54.40 Mbit/s

95th percentile per-packet one-way delay: 137.076 ms

Loss rate: 0.00%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2017-12-01 11:38:24

End at: 2017-12-01 11:38:54

Below is generated by plot.py at 2017-12-01 14:29:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 104.69 Mbit/s

95th percentile per-packet one-way delay: 136.262 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 57.90 Mbit/s

95th percentile per-packet one-way delay: 134.579 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 44.69 Mbit/s

95th percentile per-packet one-way delay: 135.861 ms

Loss rate: 0.00%

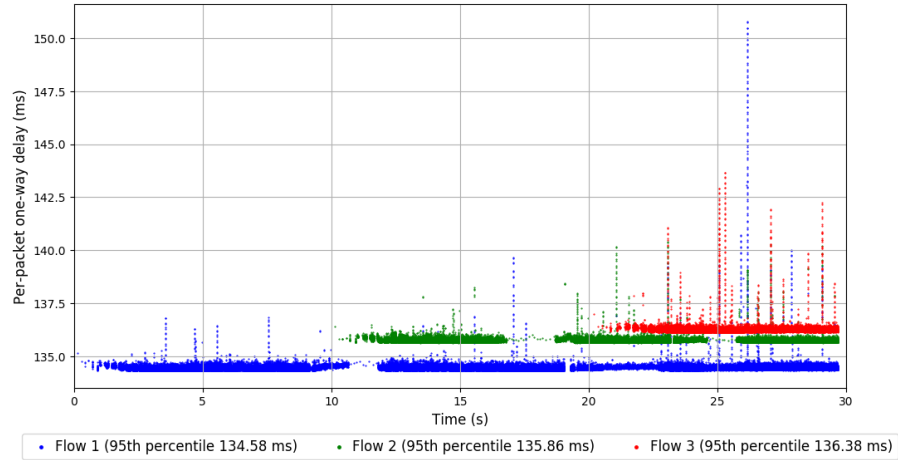
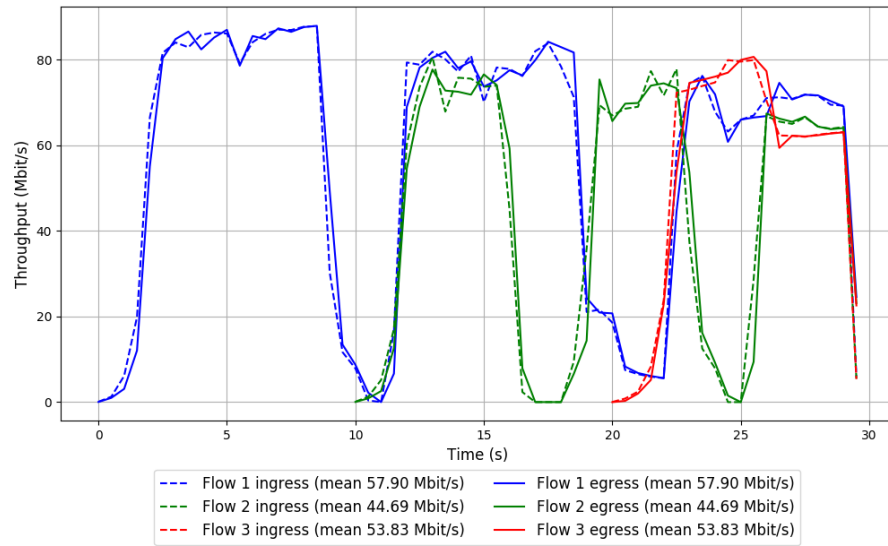
-- Flow 3:

Average throughput: 53.83 Mbit/s

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

Loss rate: 0.00%

Run 3: Report of QUIC Cubic — Data Link

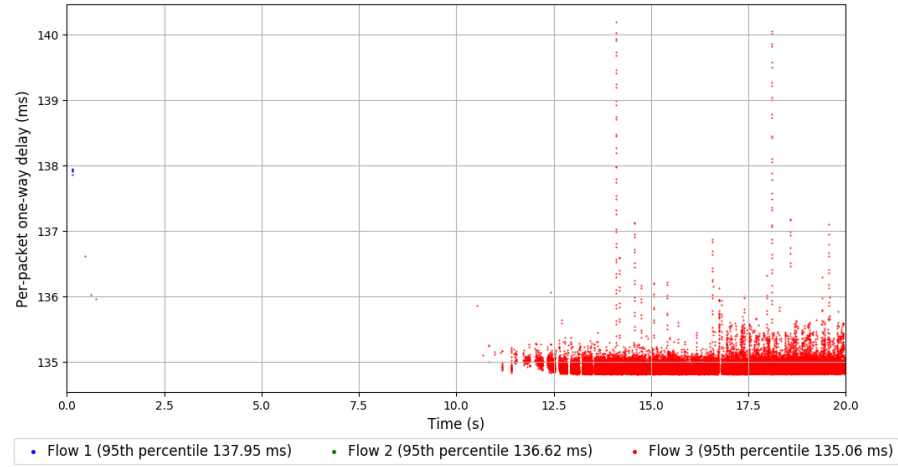
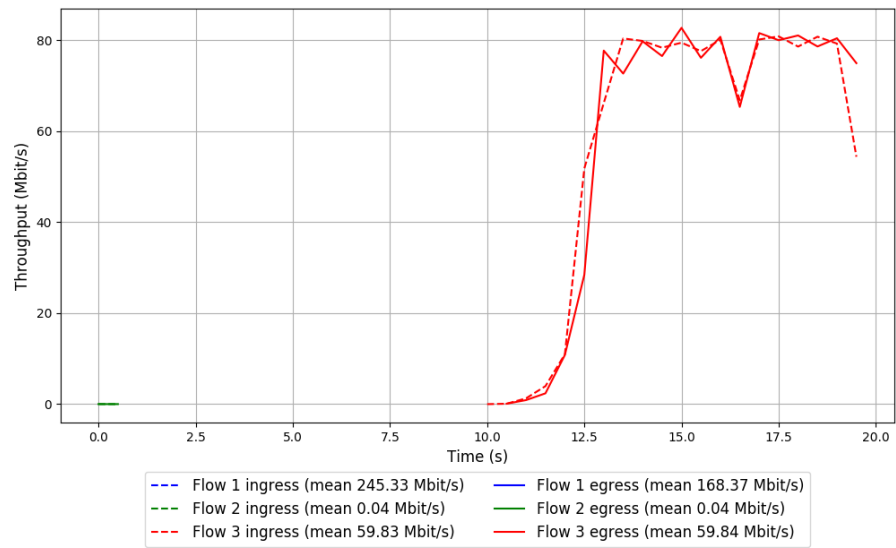


Run 4: Statistics of QUIC Cubic

Start at: 2017-12-01 11:52:42

End at: 2017-12-01 11:53:12

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2017-12-01 12:06:40

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

Below is generated by plot.py at 2017-12-01 14:29:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 108.72 Mbit/s

95th percentile per-packet one-way delay: 136.322 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 55.70 Mbit/s

95th percentile per-packet one-way delay: 136.240 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 56.76 Mbit/s

95th percentile per-packet one-way delay: 136.387 ms

Loss rate: 0.00%

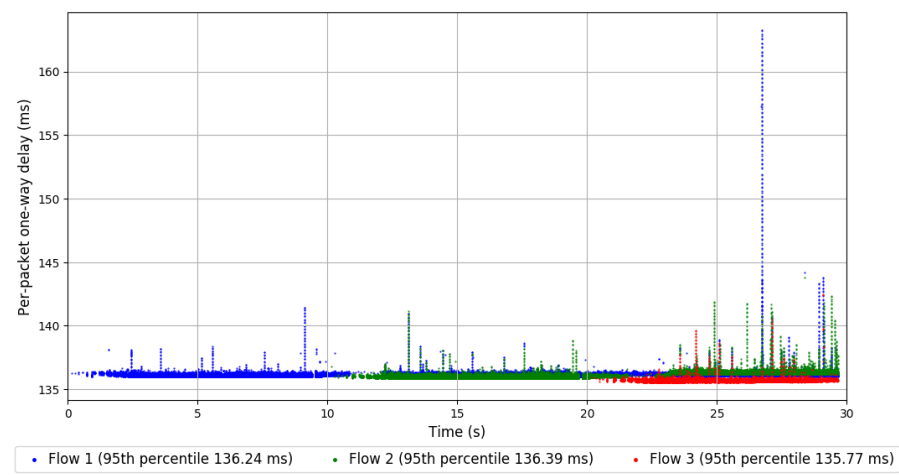
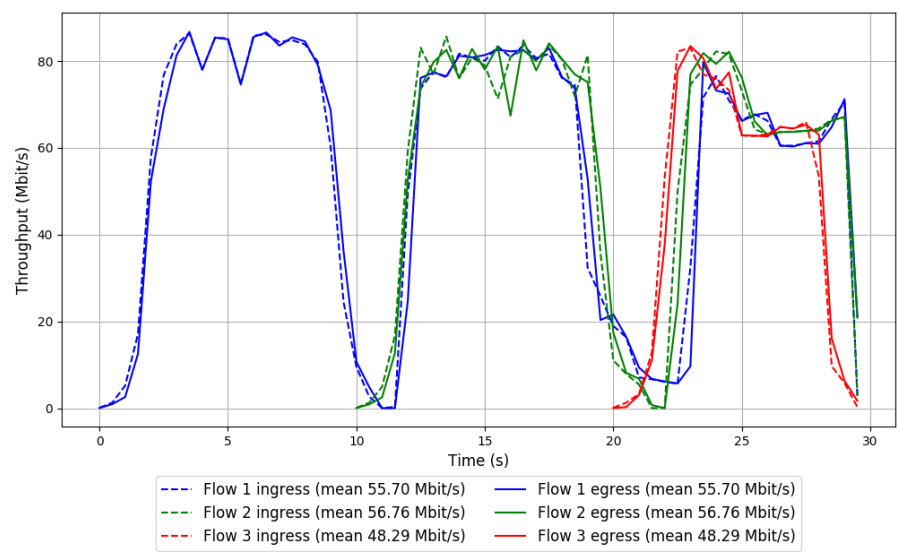
-- Flow 3:

Average throughput: 48.29 Mbit/s

95th percentile per-packet one-way delay: 135.774 ms

Loss rate: 0.00%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2017-12-01 12:20:37

End at: 2017-12-01 12:21:07

Below is generated by plot.py at 2017-12-01 14:29:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.73 Mbit/s

95th percentile per-packet one-way delay: 136.551 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 55.68 Mbit/s

95th percentile per-packet one-way delay: 136.443 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 45.02 Mbit/s

95th percentile per-packet one-way delay: 136.619 ms

Loss rate: 0.00%

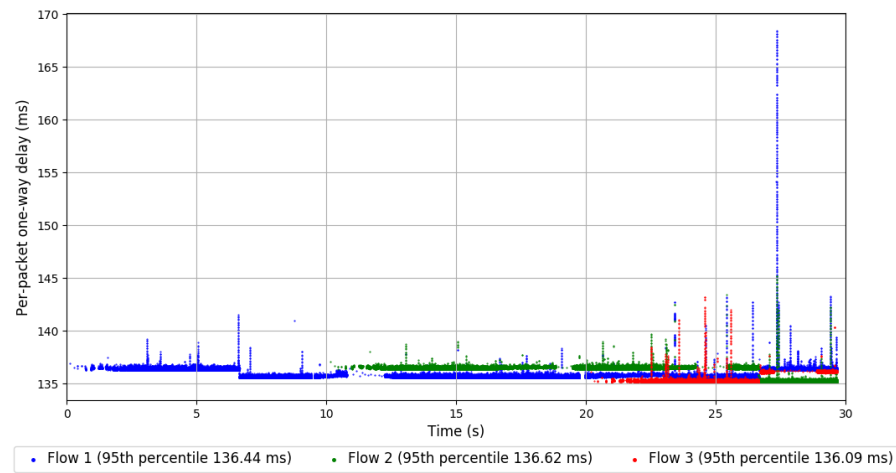
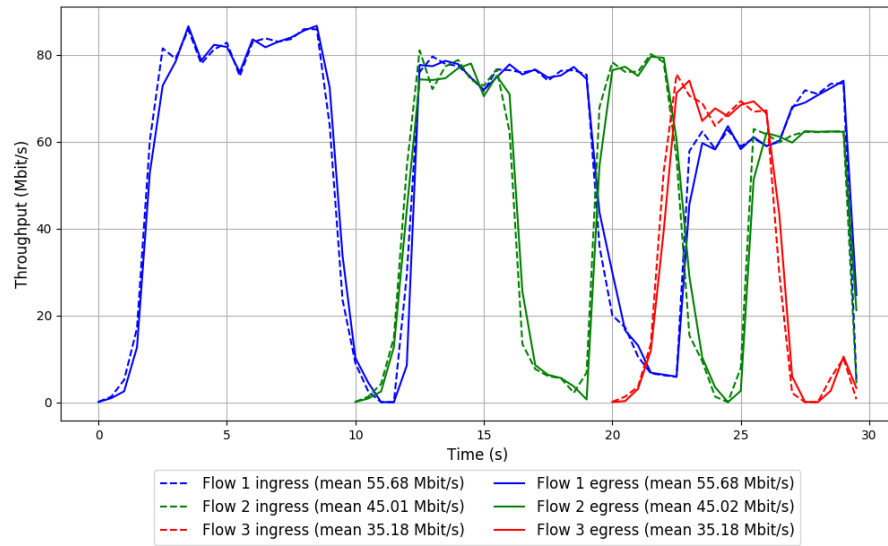
-- Flow 3:

Average throughput: 35.18 Mbit/s

95th percentile per-packet one-way delay: 136.088 ms

Loss rate: 0.00%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

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

End at: 2017-12-01 12:34:39

Below is generated by plot.py at 2017-12-01 14:29:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 67.08 Mbit/s

95th percentile per-packet one-way delay: 136.937 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 39.07 Mbit/s

95th percentile per-packet one-way delay: 136.975 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 28.23 Mbit/s

95th percentile per-packet one-way delay: 136.548 ms

Loss rate: 0.00%

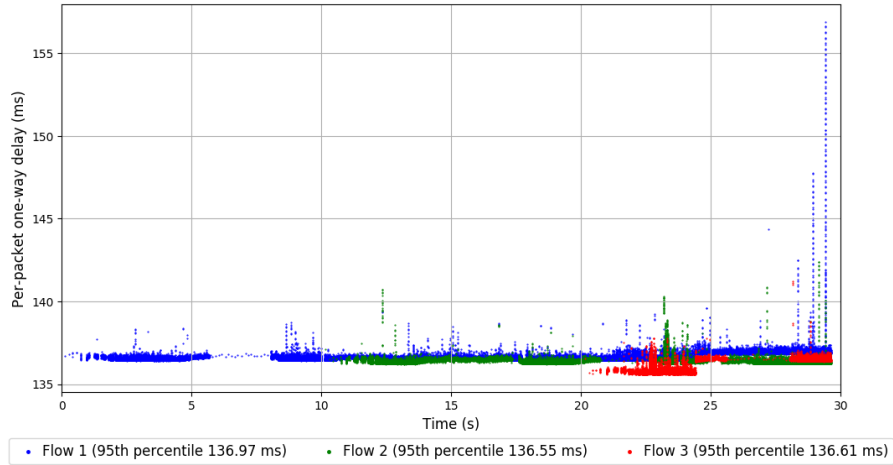
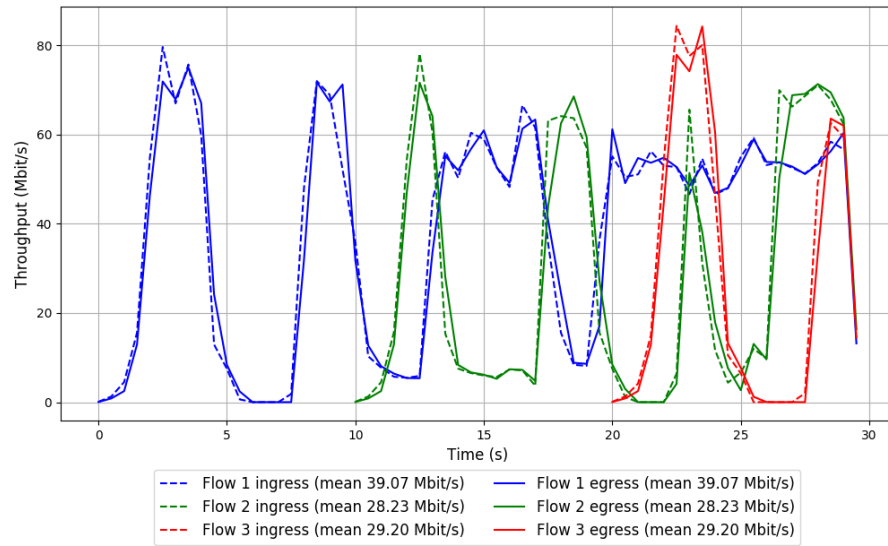
-- Flow 3:

Average throughput: 29.20 Mbit/s

95th percentile per-packet one-way delay: 136.613 ms

Loss rate: 0.00%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2017-12-01 12:48:00

End at: 2017-12-01 12:48:30

Below is generated by plot.py at 2017-12-01 14:29:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 98.20 Mbit/s

95th percentile per-packet one-way delay: 136.986 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 56.72 Mbit/s

95th percentile per-packet one-way delay: 137.027 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 45.40 Mbit/s

95th percentile per-packet one-way delay: 135.754 ms

Loss rate: 0.00%

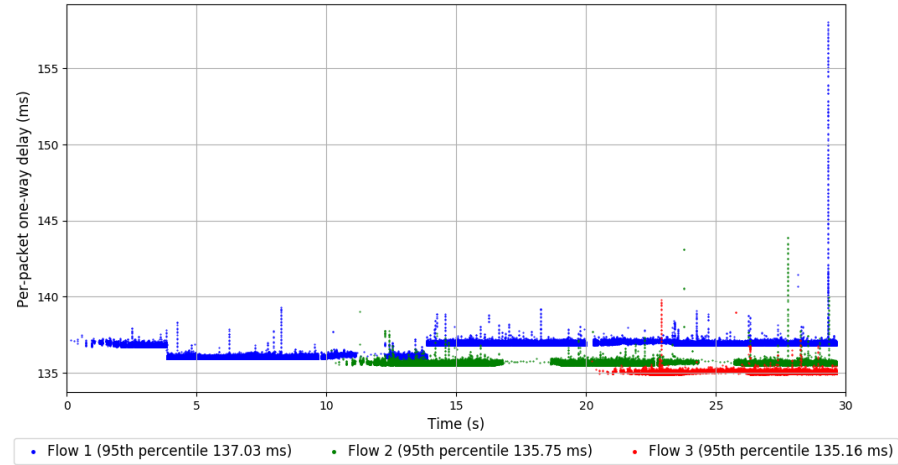
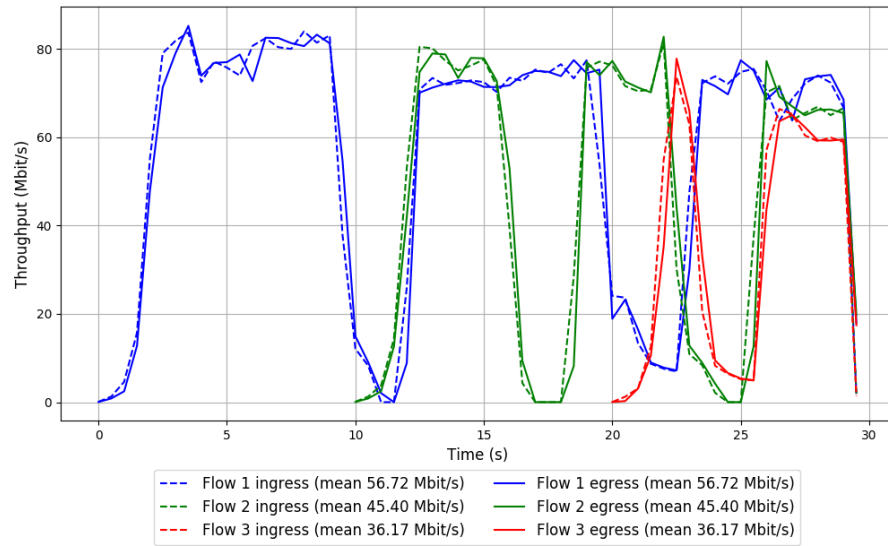
-- Flow 3:

Average throughput: 36.17 Mbit/s

95th percentile per-packet one-way delay: 135.163 ms

Loss rate: 0.00%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2017-12-01 13:02:24

End at: 2017-12-01 13:02:54

Below is generated by plot.py at 2017-12-01 14:29:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 105.41 Mbit/s

95th percentile per-packet one-way delay: 137.147 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 58.59 Mbit/s

95th percentile per-packet one-way delay: 136.397 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 44.49 Mbit/s

95th percentile per-packet one-way delay: 137.244 ms

Loss rate: 0.00%

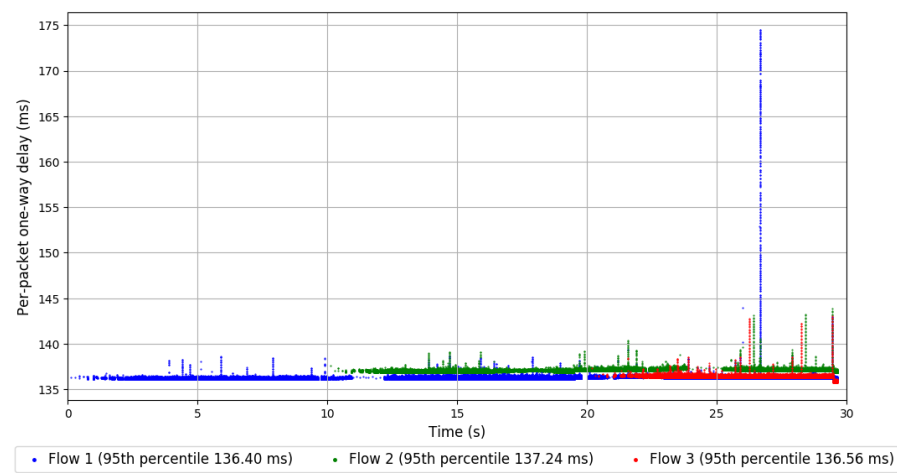
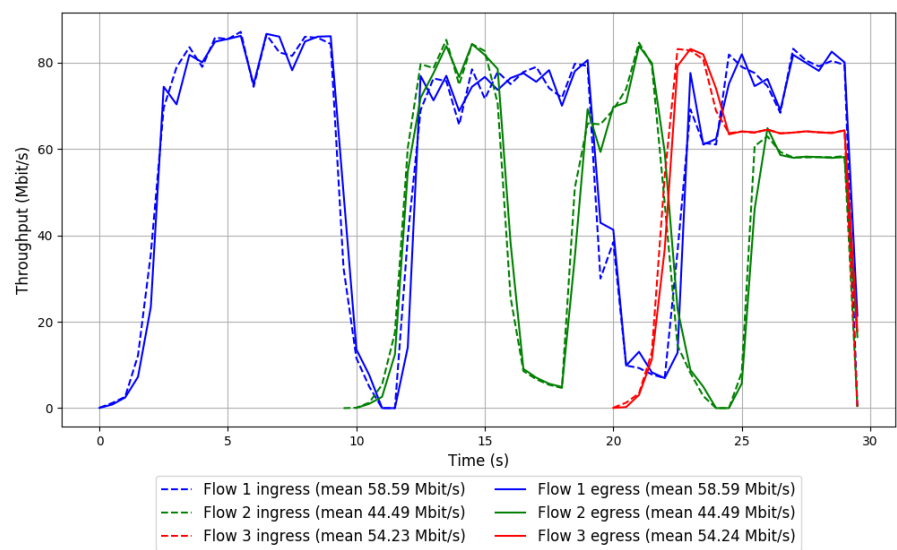
-- Flow 3:

Average throughput: 54.24 Mbit/s

95th percentile per-packet one-way delay: 136.561 ms

Loss rate: 0.00%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2017-12-01 13:16:02

End at: 2017-12-01 13:16:32

Below is generated by plot.py at 2017-12-01 14:29:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 70.11 Mbit/s

95th percentile per-packet one-way delay: 137.064 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 41.46 Mbit/s

95th percentile per-packet one-way delay: 137.110 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 33.89 Mbit/s

95th percentile per-packet one-way delay: 135.388 ms

Loss rate: 0.00%

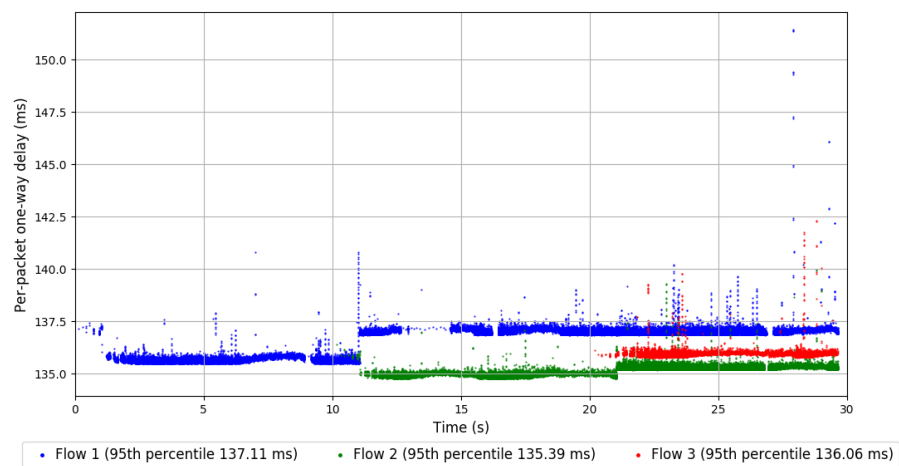
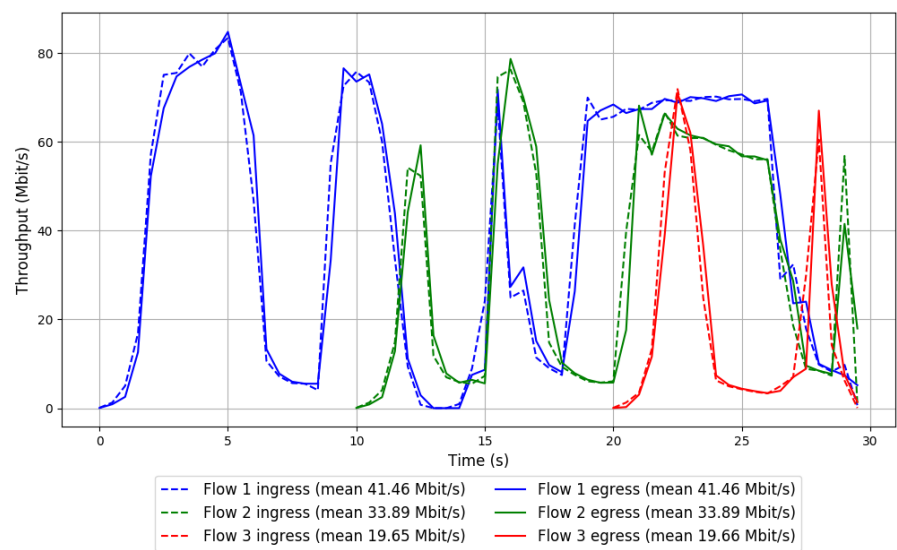
-- Flow 3:

Average throughput: 19.66 Mbit/s

95th percentile per-packet one-way delay: 136.061 ms

Loss rate: 0.01%

Run 10: Report of QUIC Cubic — Data Link

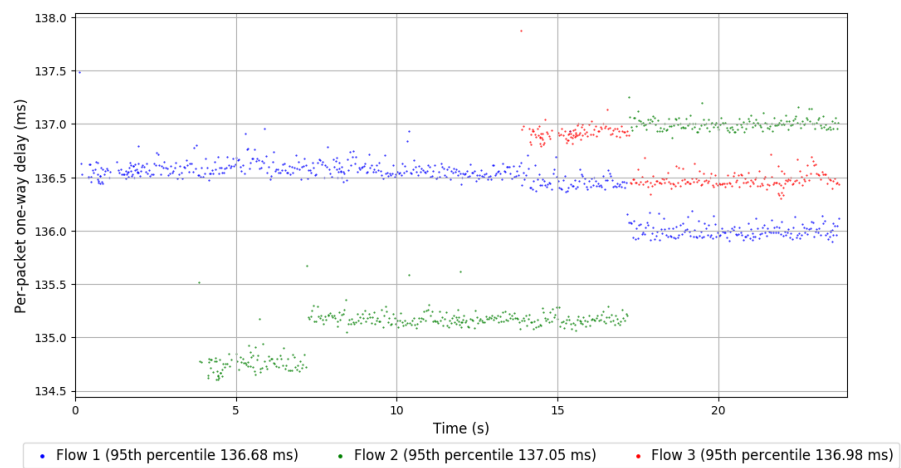
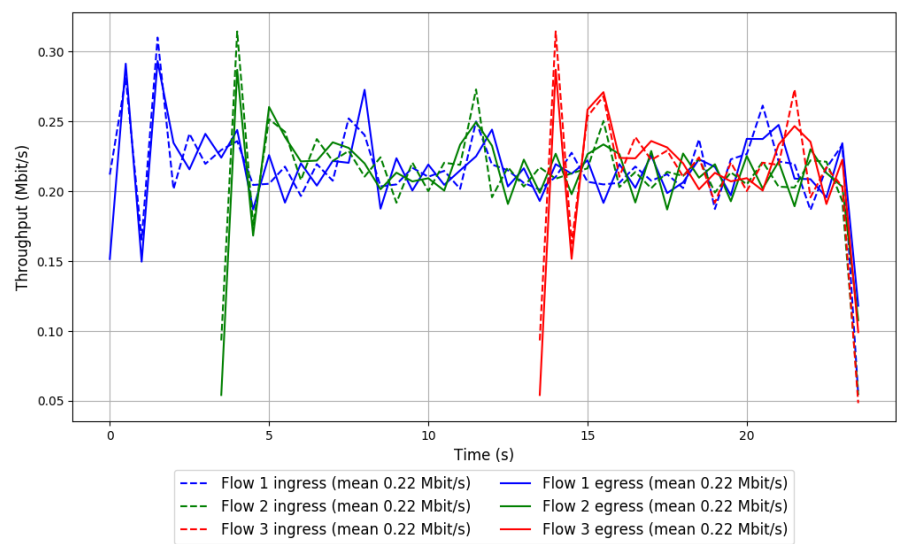


Run 1: Statistics of SReAM

Start at: 2017-12-01 11:06:50

End at: 2017-12-01 11:07:20

Run 1: Report of SReAM — Data Link

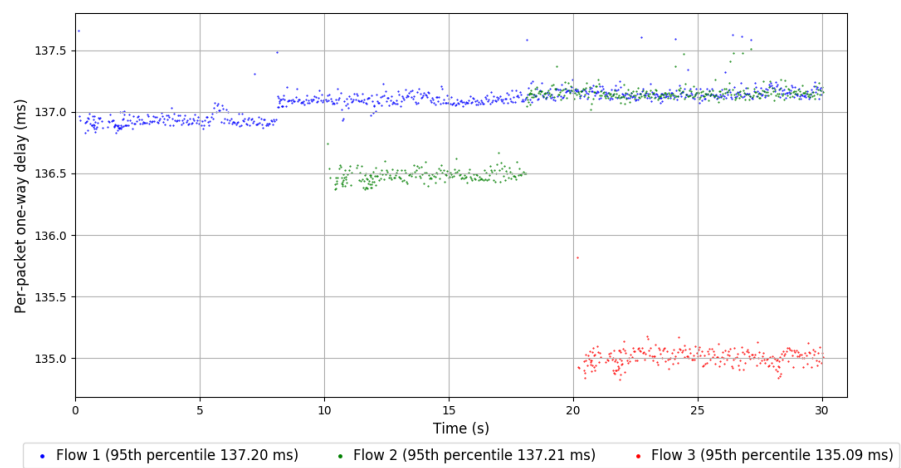
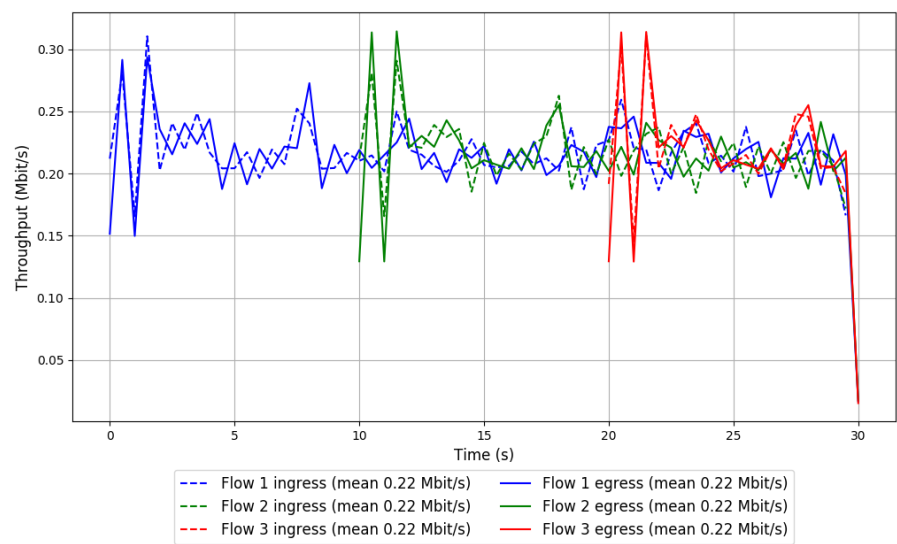


```
Run 2: Statistics of SReAM

Start at: 2017-12-01 11:20:56
End at: 2017-12-01 11:21:26

# Below is generated by plot.py at 2017-12-01 14:29:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 137.197 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 137.201 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 137.207 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 135.085 ms
Loss rate: 0.00%
```

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SReAM

Start at: 2017-12-01 11:34:41

End at: 2017-12-01 11:35:11

Below is generated by plot.py at 2017-12-01 14:29:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 137.122 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 137.139 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.592 ms

Loss rate: 0.00%

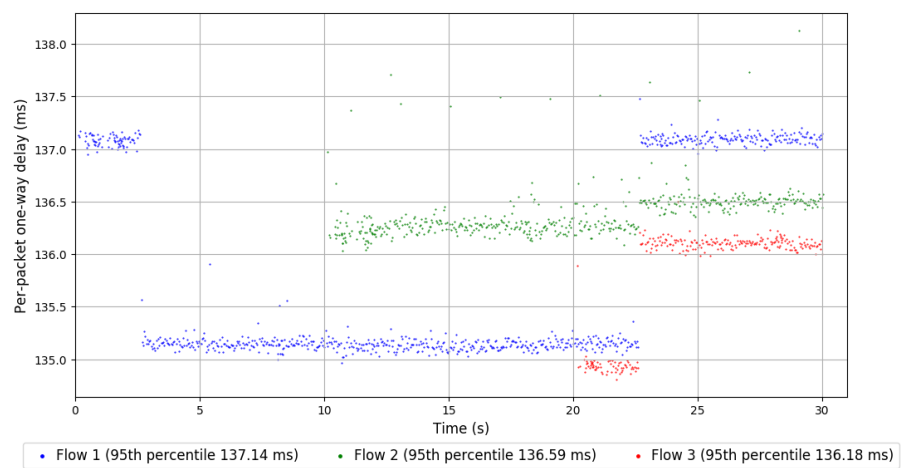
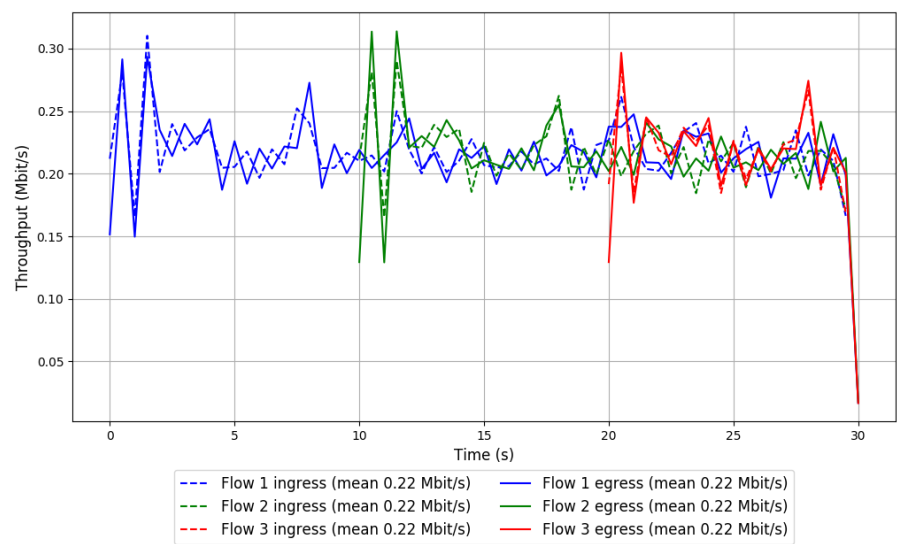
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.183 ms

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link

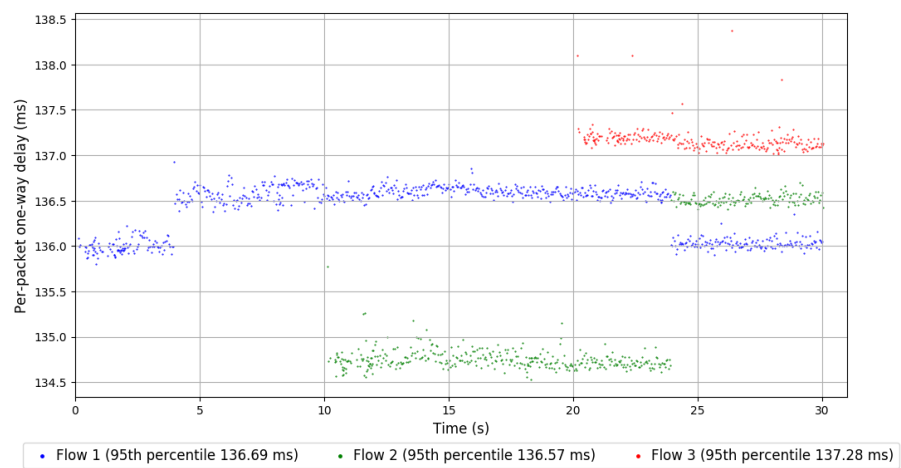
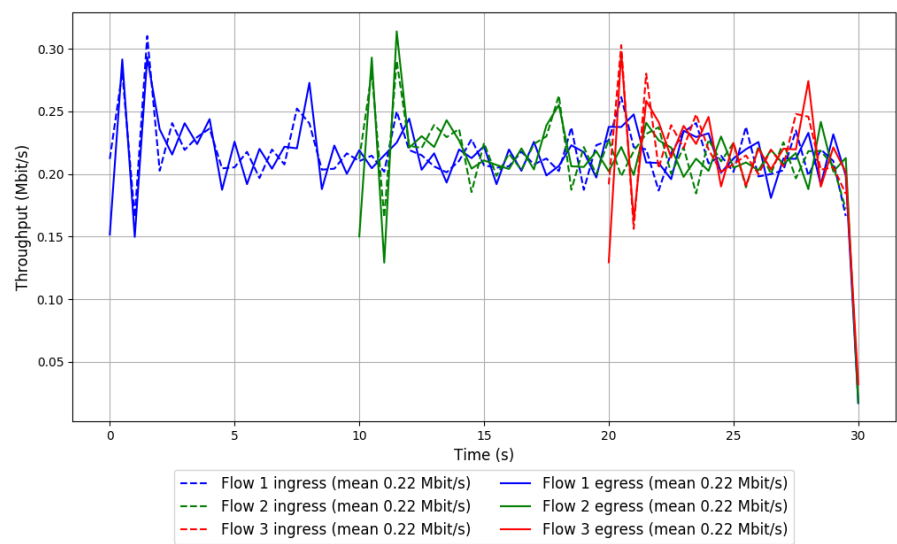


```
Run 4: Statistics of SCReAM

Start at: 2017-12-01 11:48:20
End at: 2017-12-01 11:48:50

# Below is generated by plot.py at 2017-12-01 14:29:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 137.192 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.687 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.570 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 137.282 ms
Loss rate: 0.00%
```

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2017-12-01 12:02:46

End at: 2017-12-01 12:03:16

Below is generated by plot.py at 2017-12-01 14:29:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 137.169 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 135.592 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 137.267 ms

Loss rate: 0.00%

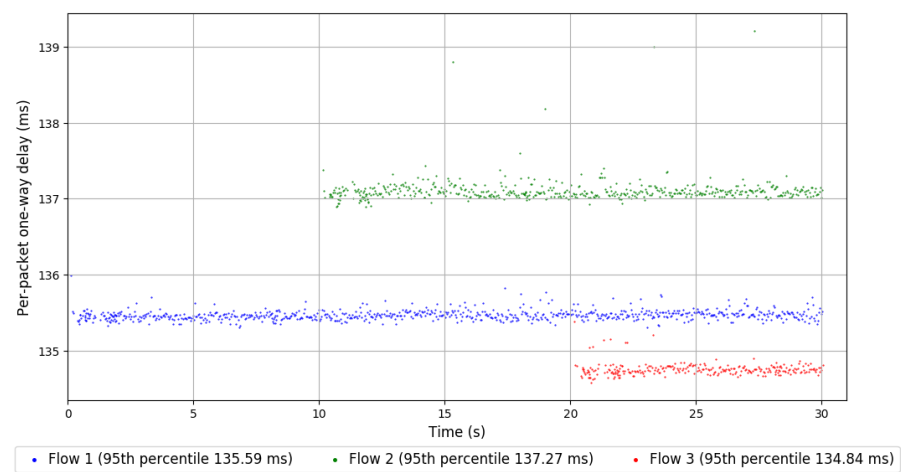
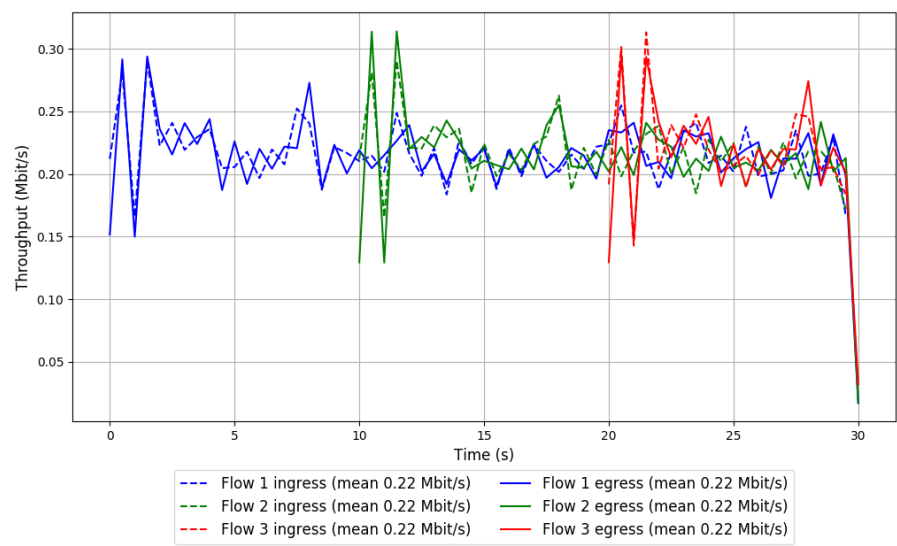
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 134.844 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2017-12-01 12:16:32

End at: 2017-12-01 12:17:03

Below is generated by plot.py at 2017-12-01 14:29:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.41 Mbit/s

95th percentile per-packet one-way delay: 137.184 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 135.268 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 137.663 ms

Loss rate: 0.00%

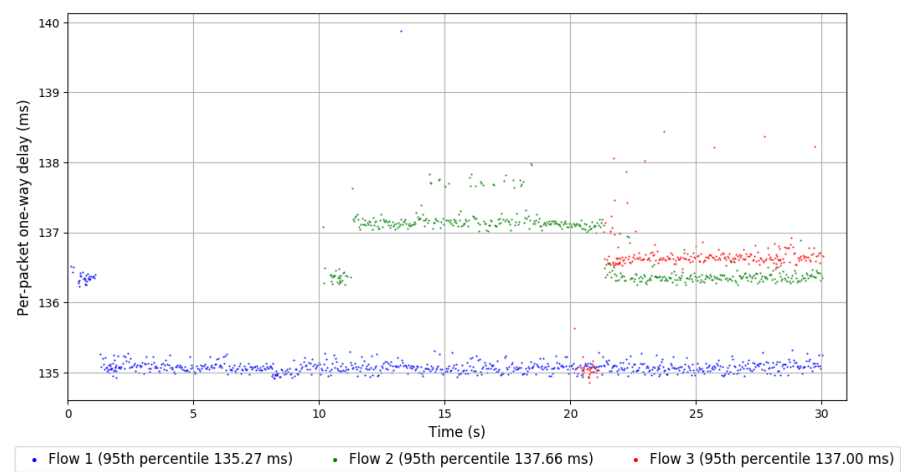
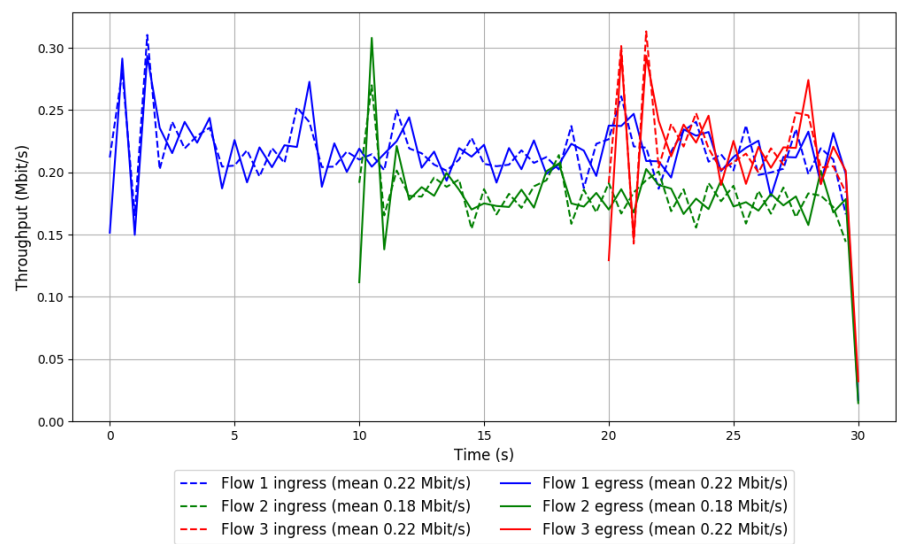
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 137.003 ms

Loss rate: 0.00%

Run 6: Report of SReAM — Data Link

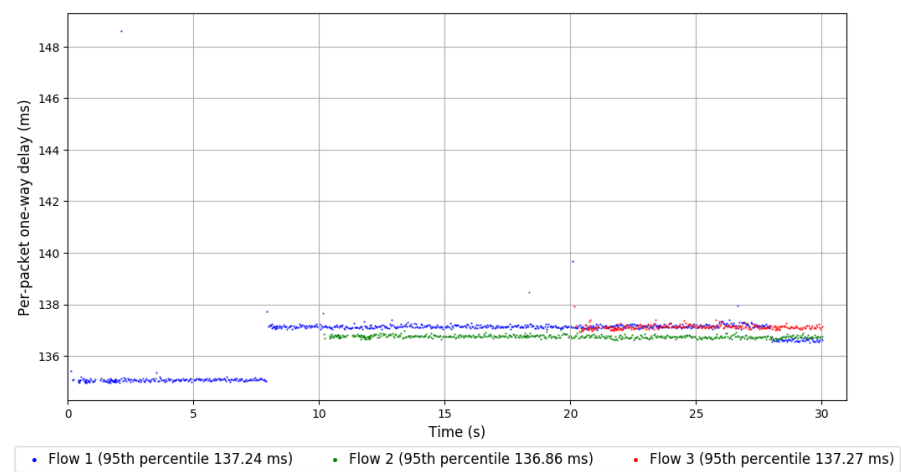
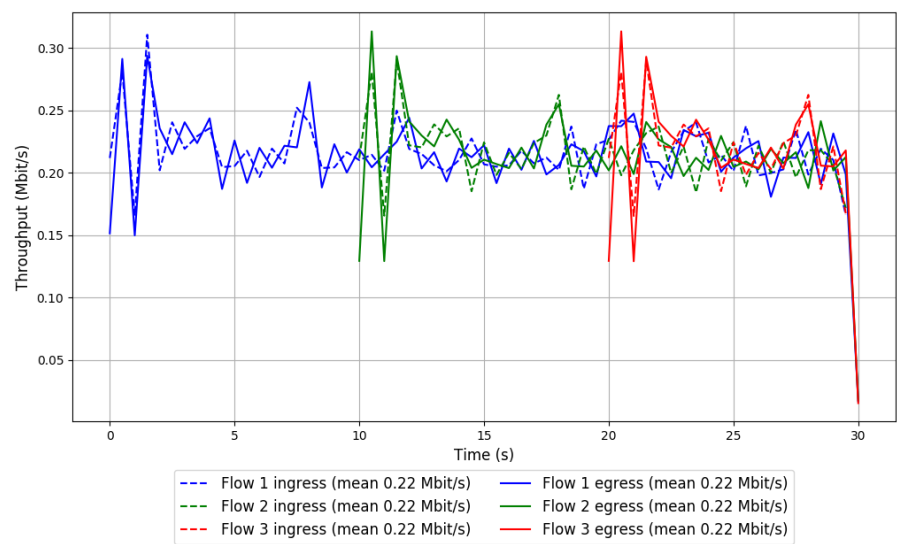


```
Run 7: Statistics of SReAM

Start at: 2017-12-01 12:30:26
End at: 2017-12-01 12:30:56

# Below is generated by plot.py at 2017-12-01 14:29:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 137.229 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 137.238 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.856 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 137.266 ms
Loss rate: 0.00%
```


Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

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

End at: 2017-12-01 12:44:31

Below is generated by plot.py at 2017-12-01 14:29:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.41 Mbit/s

95th percentile per-packet one-way delay: 137.182 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.058 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 135.727 ms

Loss rate: 0.00%

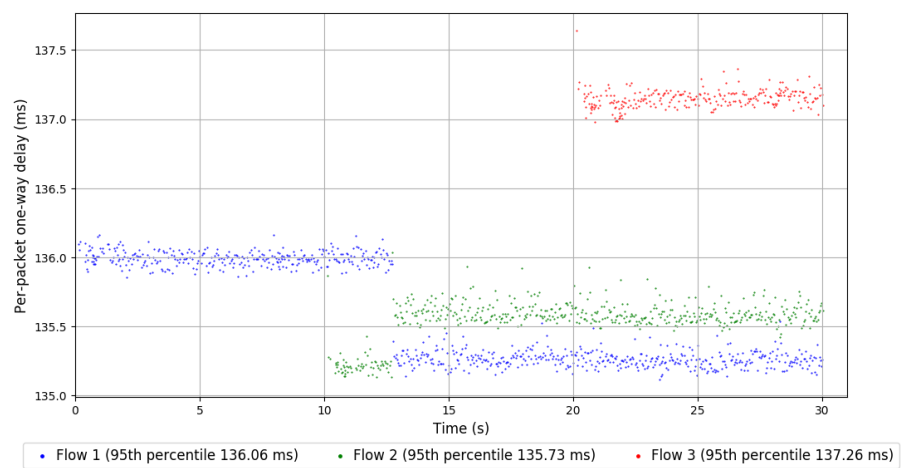
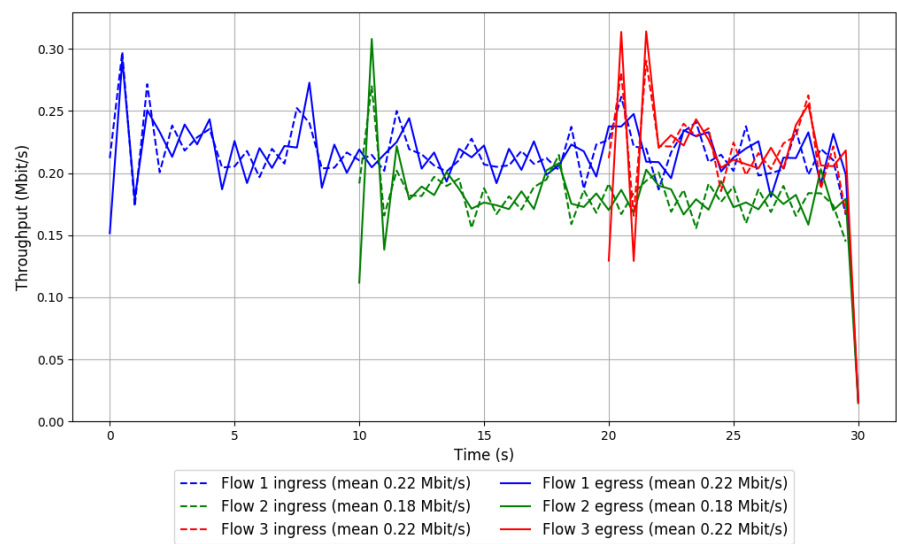
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 137.256 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

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

End at: 2017-12-01 12:58:38

Below is generated by plot.py at 2017-12-01 14:29:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.35 Mbit/s

95th percentile per-packet one-way delay: 137.426 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 137.442 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 136.176 ms

Loss rate: 0.00%

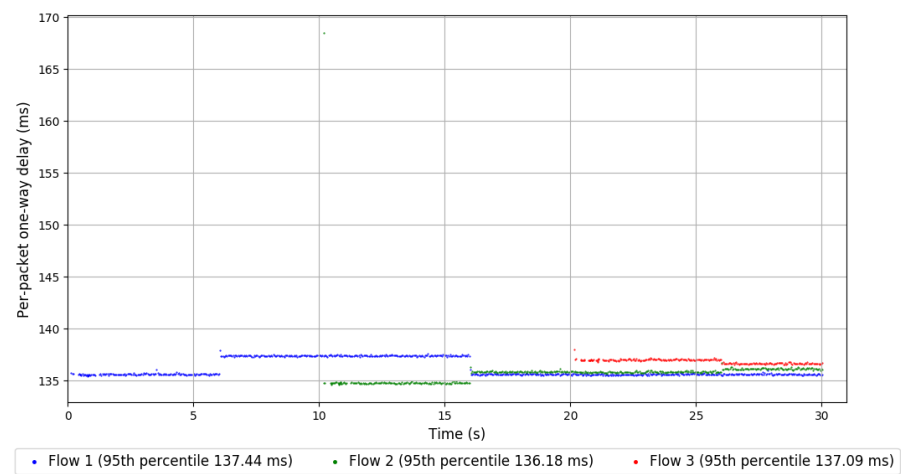
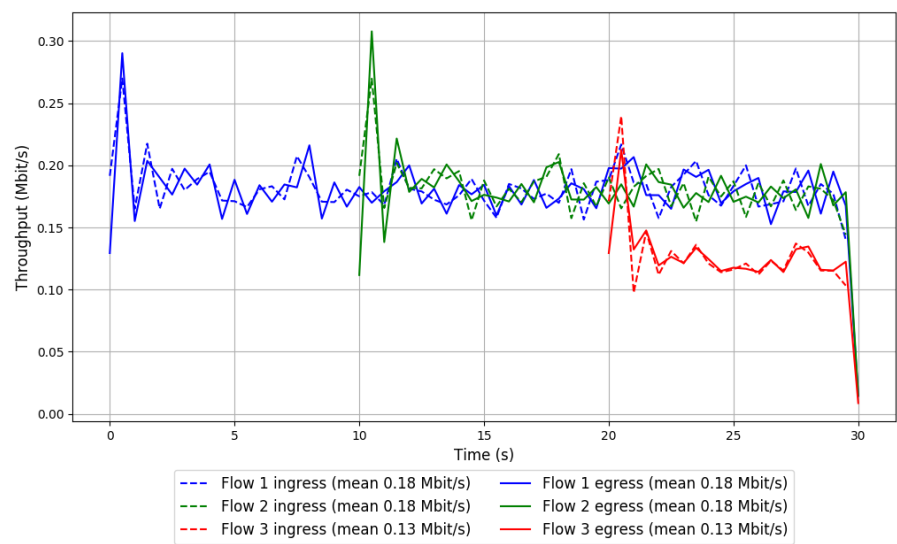
-- Flow 3:

Average throughput: 0.13 Mbit/s

95th percentile per-packet one-way delay: 137.088 ms

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link

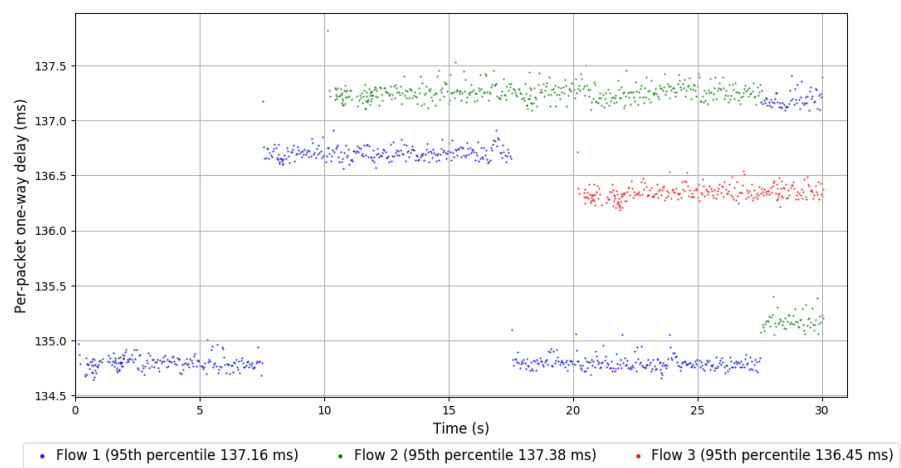
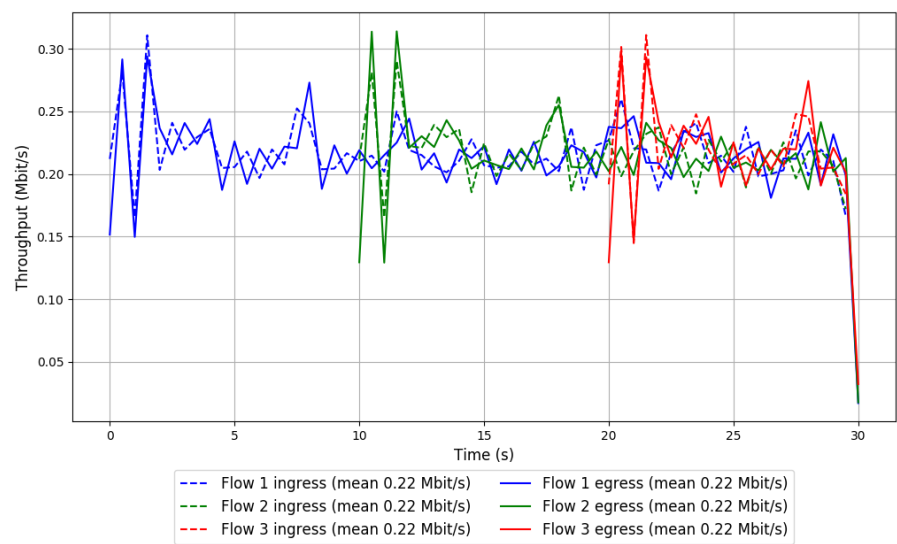


```
Run 10: Statistics of SReAM

Start at: 2017-12-01 13:12:16
End at: 2017-12-01 13:12:46

# Below is generated by plot.py at 2017-12-01 14:29:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 137.317 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 137.159 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 137.380 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.448 ms
Loss rate: 0.00%
```

Run 10: Report of SReAM — Data Link

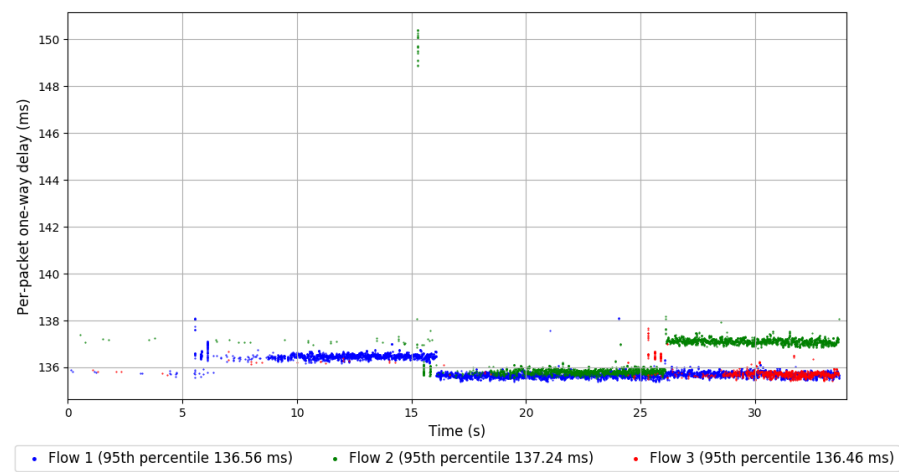
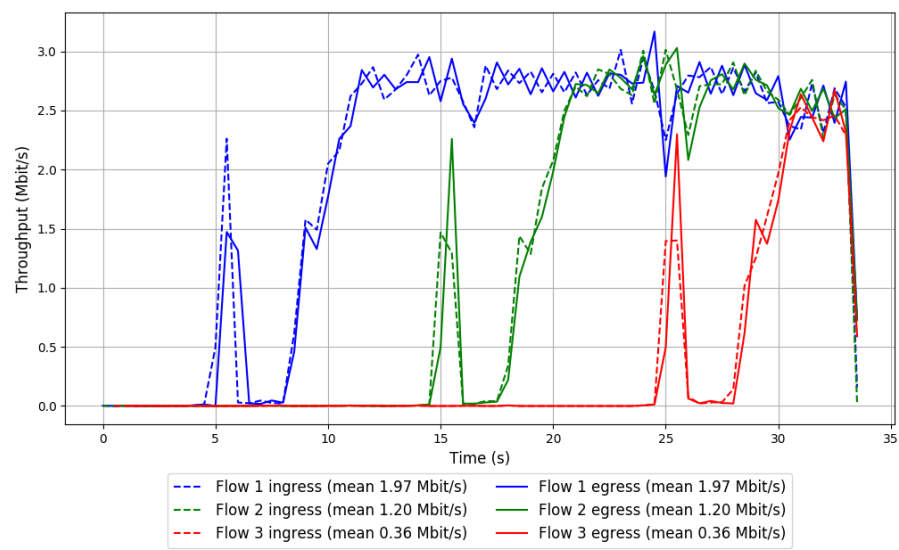


```
Run 1: Statistics of WebRTC media

Start at: 2017-12-01 11:19:11
End at: 2017-12-01 11:19:41

# Below is generated by plot.py at 2017-12-01 14:29:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.50 Mbit/s
95th percentile per-packet one-way delay: 137.171 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.97 Mbit/s
95th percentile per-packet one-way delay: 136.560 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.20 Mbit/s
95th percentile per-packet one-way delay: 137.244 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.36 Mbit/s
95th percentile per-packet one-way delay: 136.460 ms
Loss rate: 0.00%
```


Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2017-12-01 11:33:01

End at: 2017-12-01 11:33:31

Below is generated by plot.py at 2017-12-01 14:29:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.46 Mbit/s

95th percentile per-packet one-way delay: 137.129 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.96 Mbit/s

95th percentile per-packet one-way delay: 136.486 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.18 Mbit/s

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

Loss rate: 0.00%

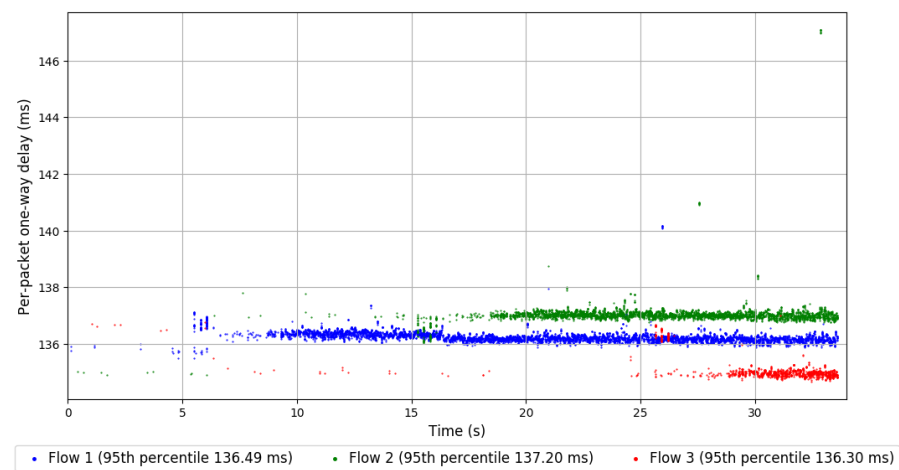
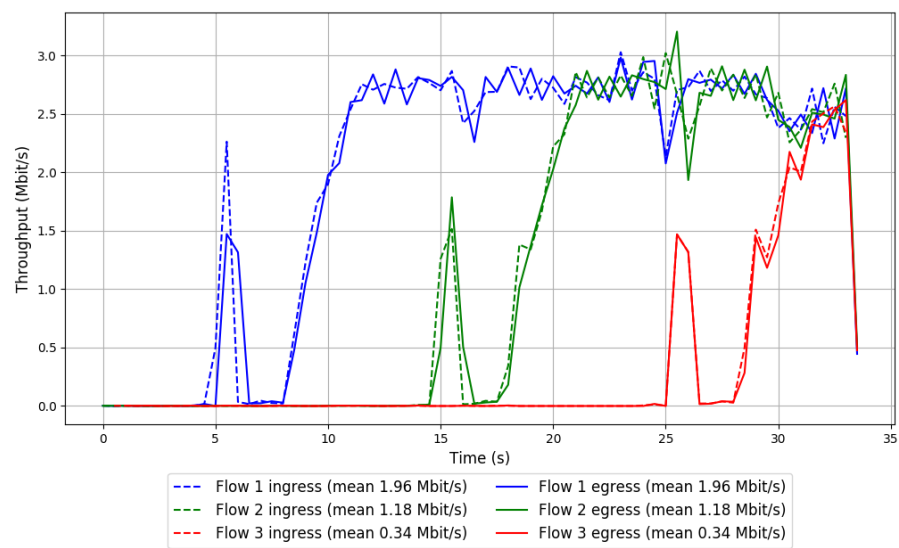
-- Flow 3:

Average throughput: 0.34 Mbit/s

95th percentile per-packet one-way delay: 136.296 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2017-12-01 11:46:33

End at: 2017-12-01 11:47:03

Below is generated by plot.py at 2017-12-01 14:29:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.31 Mbit/s

95th percentile per-packet one-way delay: 136.026 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.90 Mbit/s

95th percentile per-packet one-way delay: 136.018 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.13 Mbit/s

95th percentile per-packet one-way delay: 135.809 ms

Loss rate: 0.00%

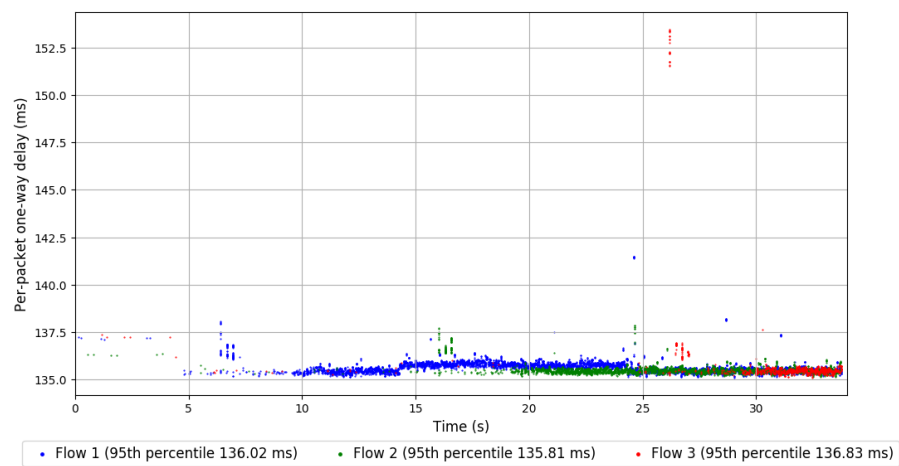
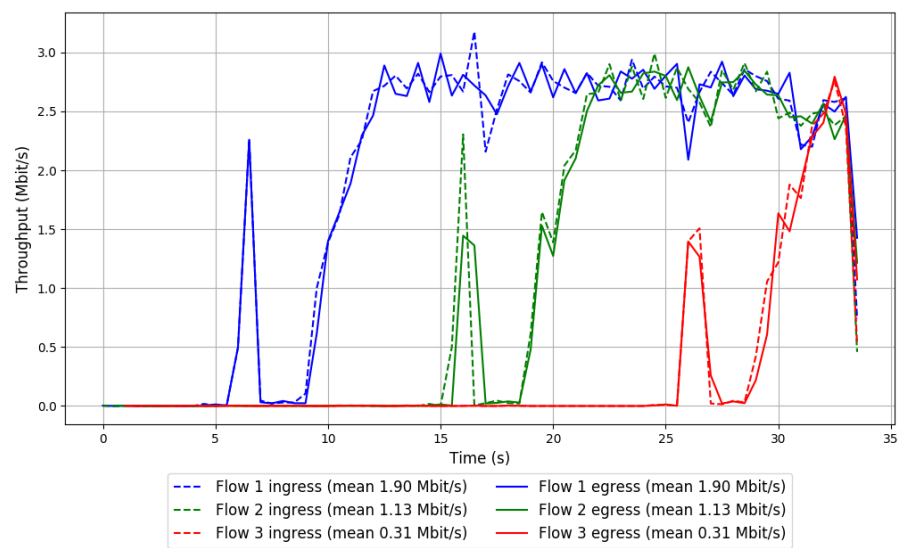
-- Flow 3:

Average throughput: 0.31 Mbit/s

95th percentile per-packet one-way delay: 136.828 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2017-12-01 12:00:59

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

Below is generated by plot.py at 2017-12-01 14:29:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.40 Mbit/s

95th percentile per-packet one-way delay: 137.167 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.92 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.17 Mbit/s

95th percentile per-packet one-way delay: 137.247 ms

Loss rate: 0.00%

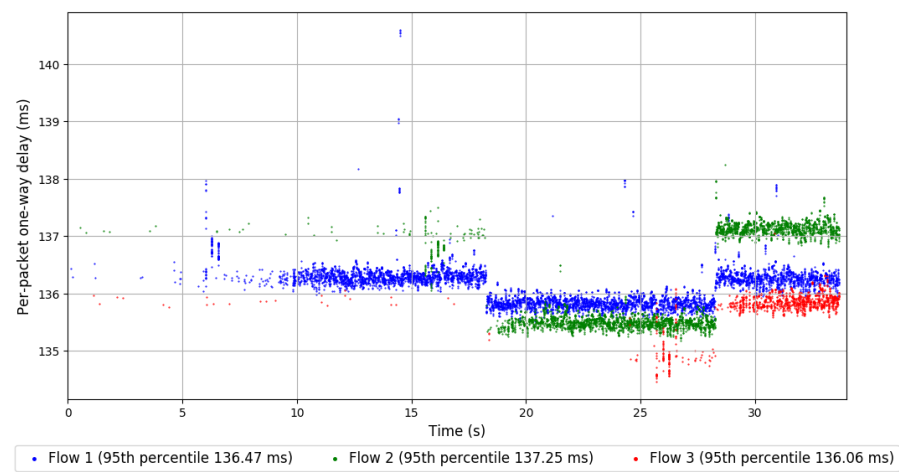
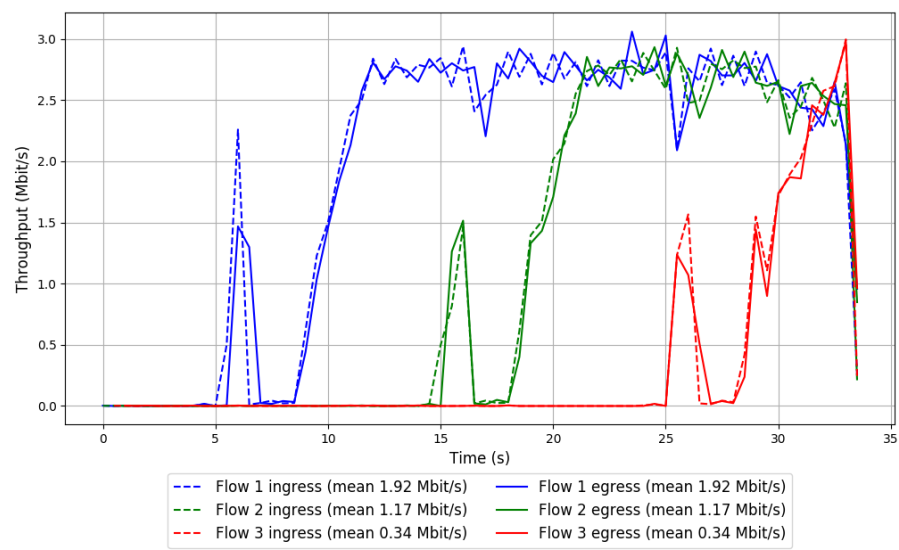
-- Flow 3:

Average throughput: 0.34 Mbit/s

95th percentile per-packet one-way delay: 136.059 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

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

End at: 2017-12-01 12:15:18

Below is generated by plot.py at 2017-12-01 14:29:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.39 Mbit/s

95th percentile per-packet one-way delay: 136.611 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.96 Mbit/s

95th percentile per-packet one-way delay: 136.599 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.15 Mbit/s

95th percentile per-packet one-way delay: 136.559 ms

Loss rate: 0.00%

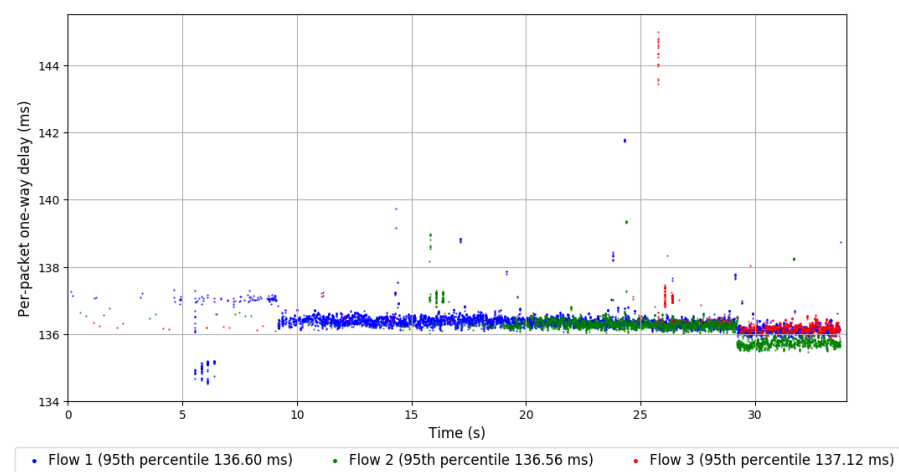
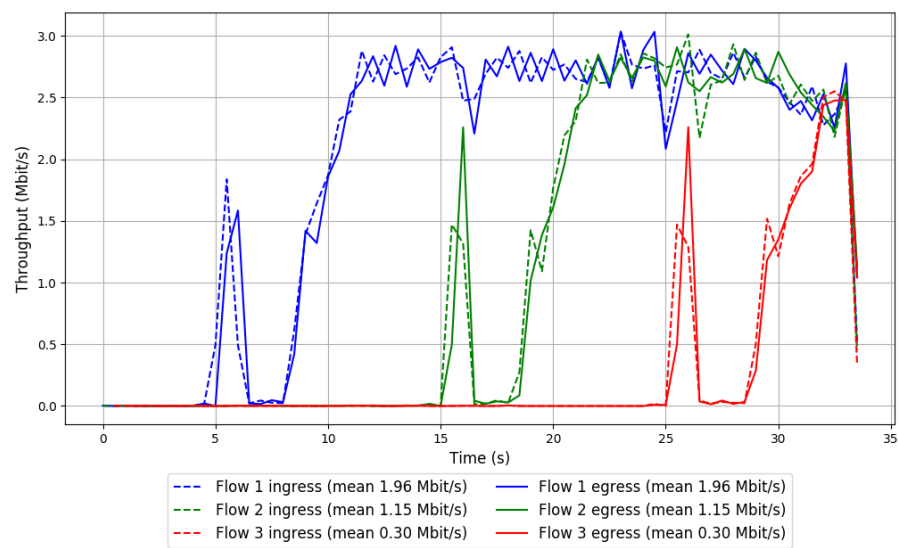
-- Flow 3:

Average throughput: 0.30 Mbit/s

95th percentile per-packet one-way delay: 137.125 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2017-12-01 12:28:42

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

Below is generated by plot.py at 2017-12-01 14:29:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.39 Mbit/s

95th percentile per-packet one-way delay: 137.216 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.95 Mbit/s

95th percentile per-packet one-way delay: 137.172 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.14 Mbit/s

95th percentile per-packet one-way delay: 137.281 ms

Loss rate: 0.00%

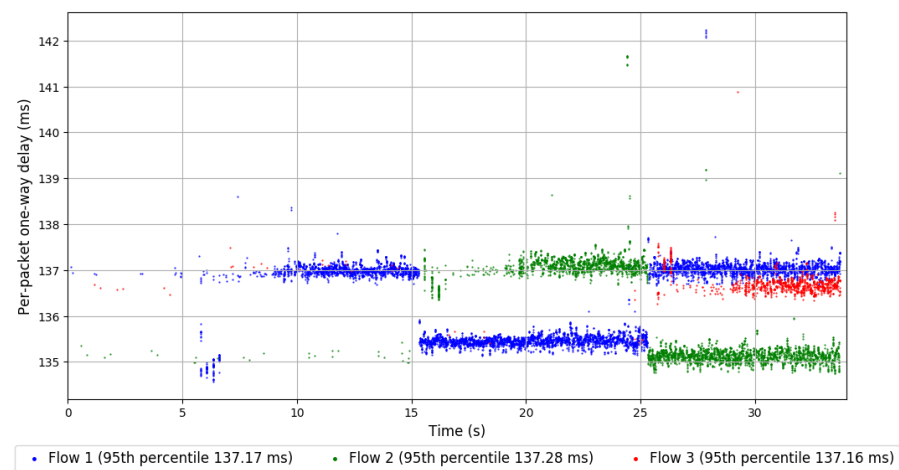
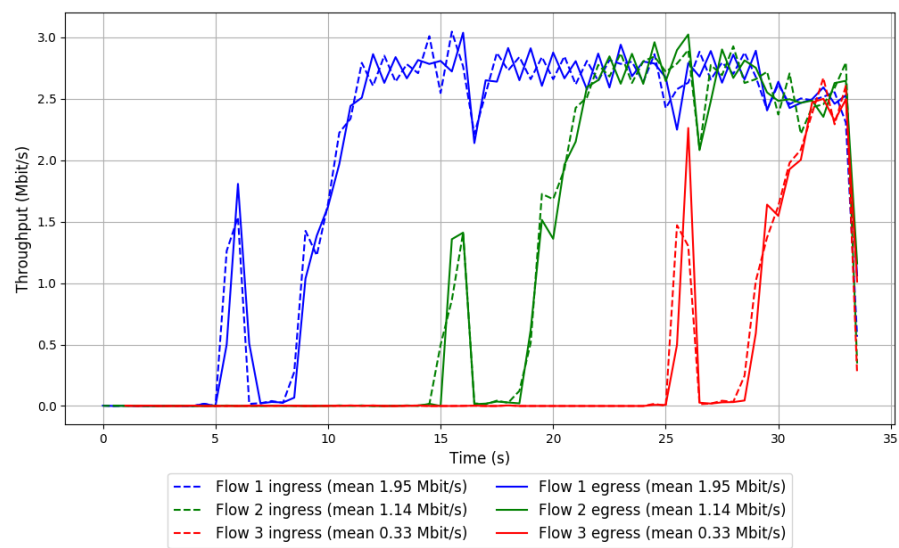
-- Flow 3:

Average throughput: 0.33 Mbit/s

95th percentile per-packet one-way delay: 137.158 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2017-12-01 12:42:17

End at: 2017-12-01 12:42:47

Below is generated by plot.py at 2017-12-01 14:29:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.39 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.96 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.16 Mbit/s

95th percentile per-packet one-way delay: 137.160 ms

Loss rate: 0.00%

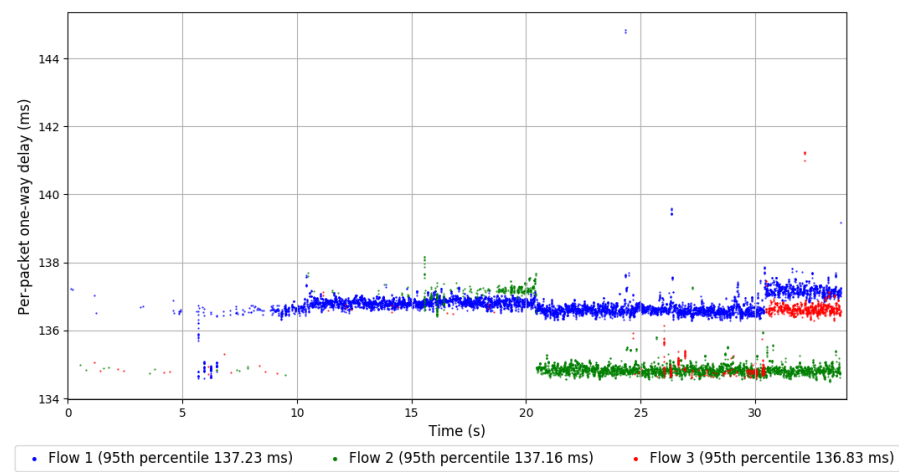
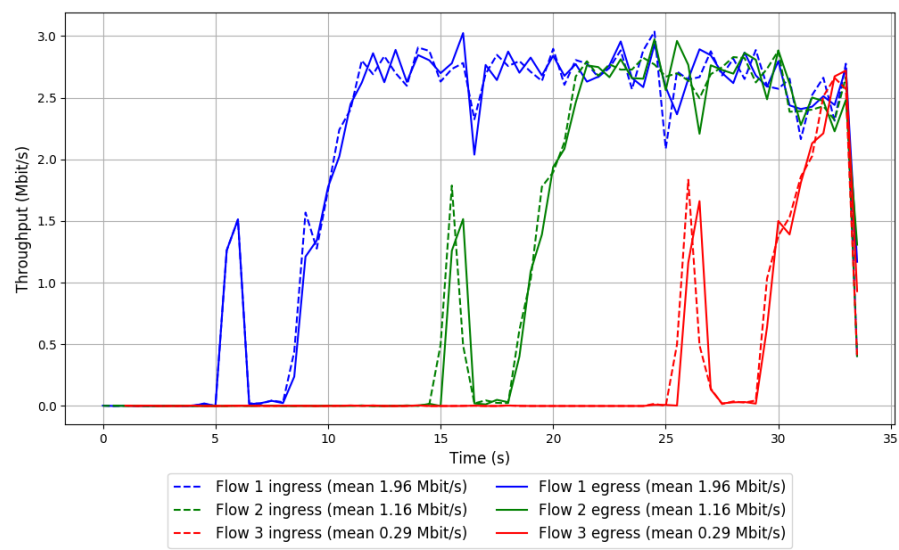
-- Flow 3:

Average throughput: 0.29 Mbit/s

95th percentile per-packet one-way delay: 136.834 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2017-12-01 12:56:23

End at: 2017-12-01 12:56:53

Below is generated by plot.py at 2017-12-01 14:29:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.36 Mbit/s

95th percentile per-packet one-way delay: 137.163 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.92 Mbit/s

95th percentile per-packet one-way delay: 137.189 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.14 Mbit/s

95th percentile per-packet one-way delay: 136.566 ms

Loss rate: 0.00%

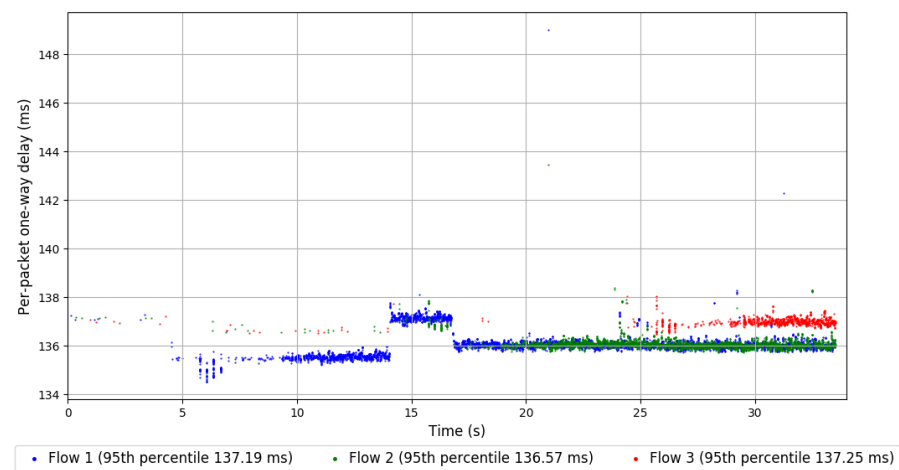
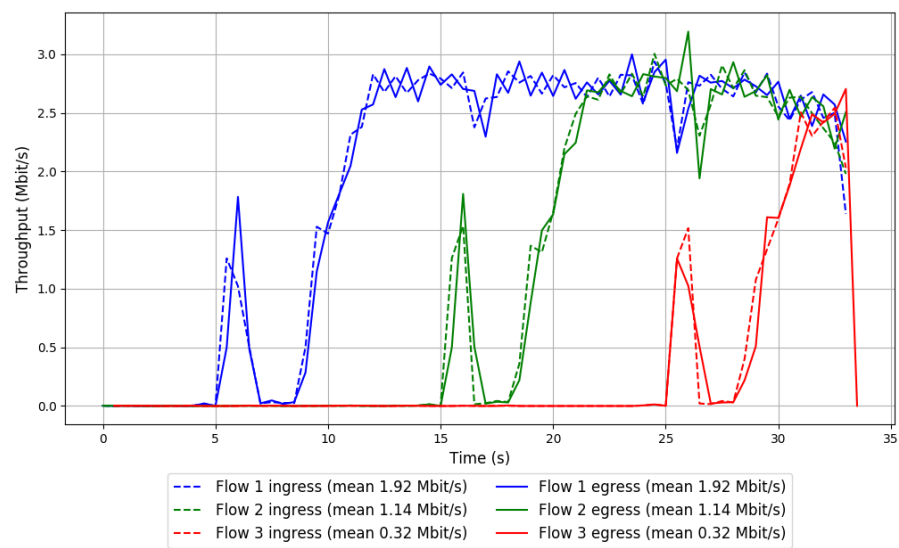
-- Flow 3:

Average throughput: 0.32 Mbit/s

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

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2017-12-01 13:10:34

End at: 2017-12-01 13:11:04

Below is generated by plot.py at 2017-12-01 14:29:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.35 Mbit/s

95th percentile per-packet one-way delay: 137.313 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.95 Mbit/s

95th percentile per-packet one-way delay: 136.963 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.15 Mbit/s

95th percentile per-packet one-way delay: 137.396 ms

Loss rate: 0.00%

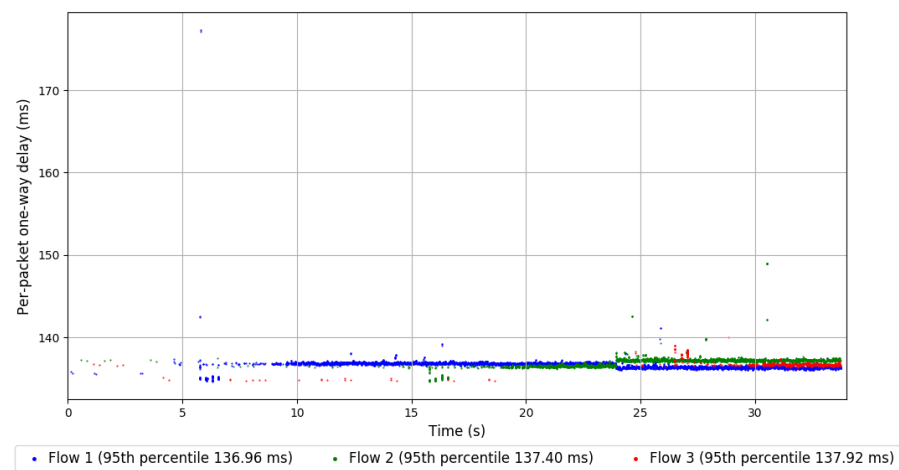
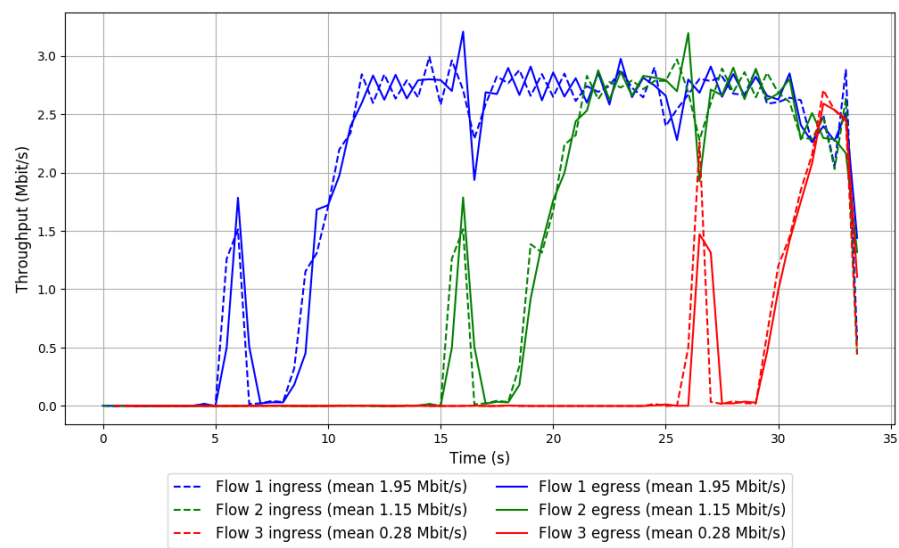
-- Flow 3:

Average throughput: 0.28 Mbit/s

95th percentile per-packet one-way delay: 137.918 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2017-12-01 13:24:03

End at: 2017-12-01 13:24:33

Below is generated by plot.py at 2017-12-01 14:29:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.36 Mbit/s

95th percentile per-packet one-way delay: 136.728 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.95 Mbit/s

95th percentile per-packet one-way delay: 136.710 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.13 Mbit/s

95th percentile per-packet one-way delay: 136.508 ms

Loss rate: 0.00%

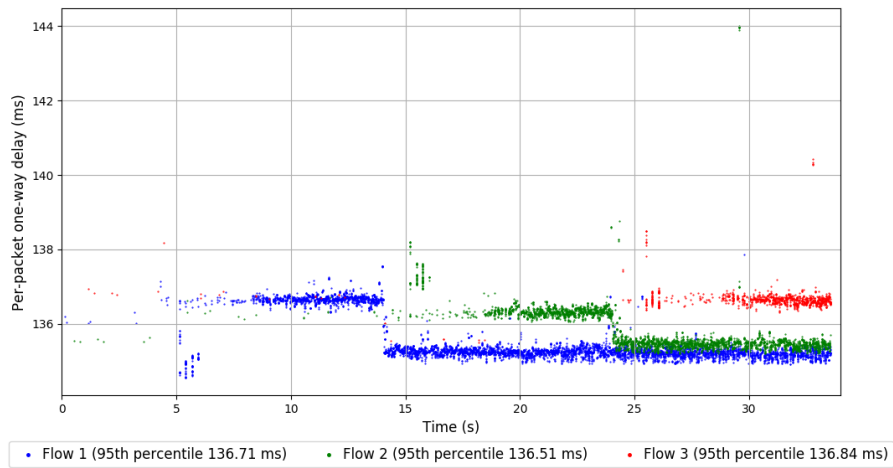
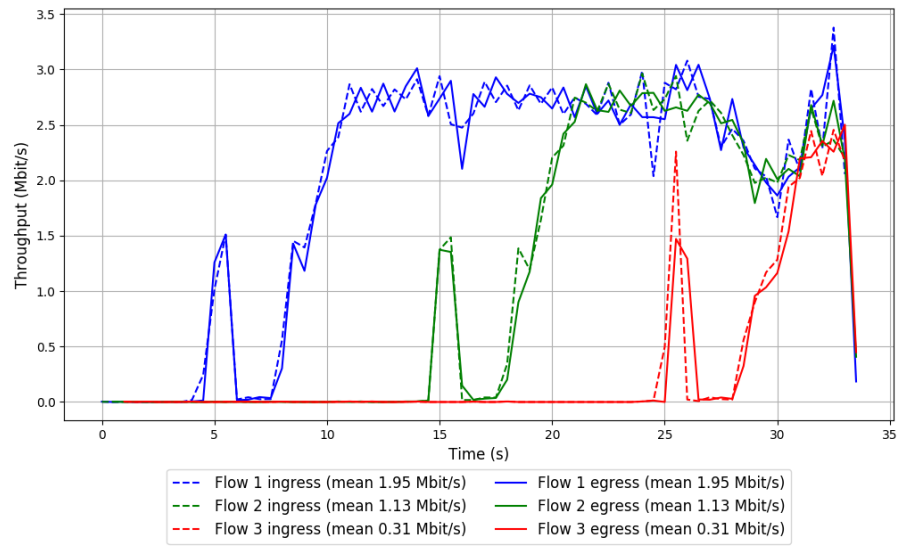
-- Flow 3:

Average throughput: 0.31 Mbit/s

95th percentile per-packet one-way delay: 136.841 ms

Loss rate: 0.01%

Run 10: Report of WebRTC media — Data Link

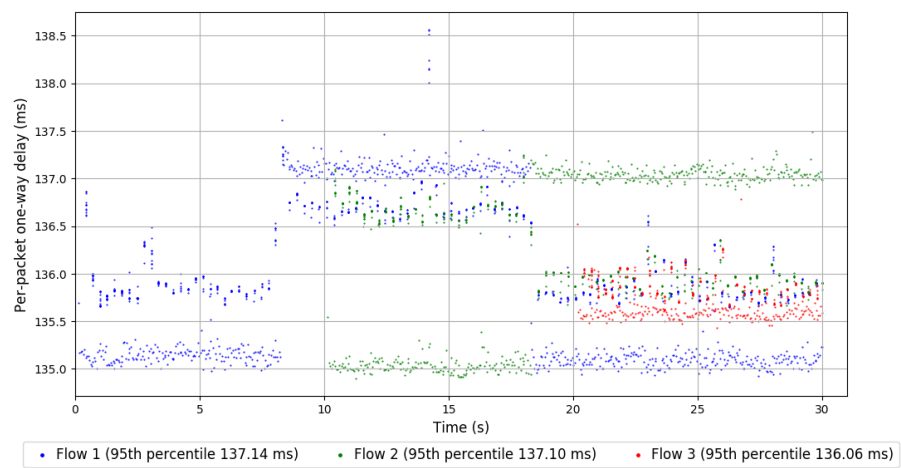
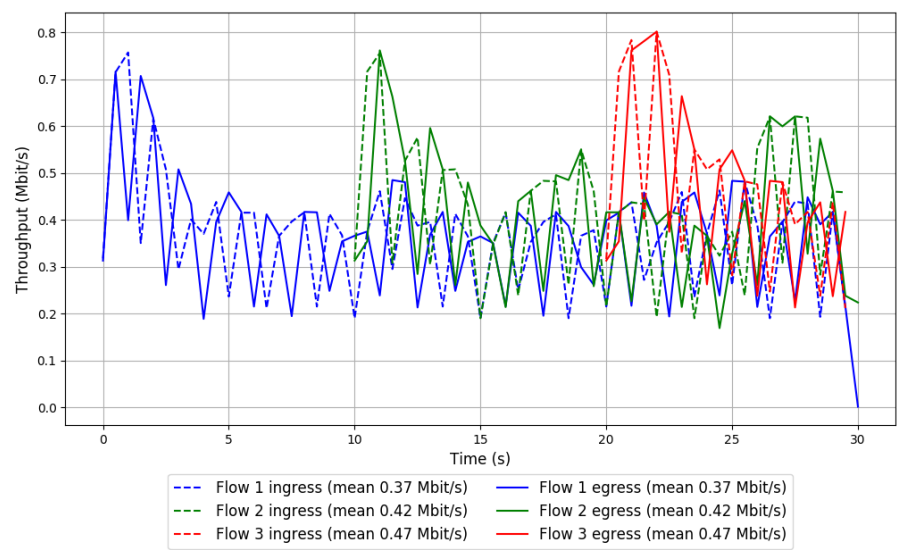


```
Run 1: Statistics of Sprout

Start at: 2017-12-01 11:10:15
End at: 2017-12-01 11:10:45

# Below is generated by plot.py at 2017-12-01 14:29:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.81 Mbit/s
95th percentile per-packet one-way delay: 137.111 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.37 Mbit/s
95th percentile per-packet one-way delay: 137.143 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.42 Mbit/s
95th percentile per-packet one-way delay: 137.097 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.47 Mbit/s
95th percentile per-packet one-way delay: 136.062 ms
Loss rate: 0.00%
```

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2017-12-01 11:24:10

End at: 2017-12-01 11:24:40

Below is generated by plot.py at 2017-12-01 14:29:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.82 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.40 Mbit/s

95th percentile per-packet one-way delay: 137.264 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 137.107 ms

Loss rate: 0.00%

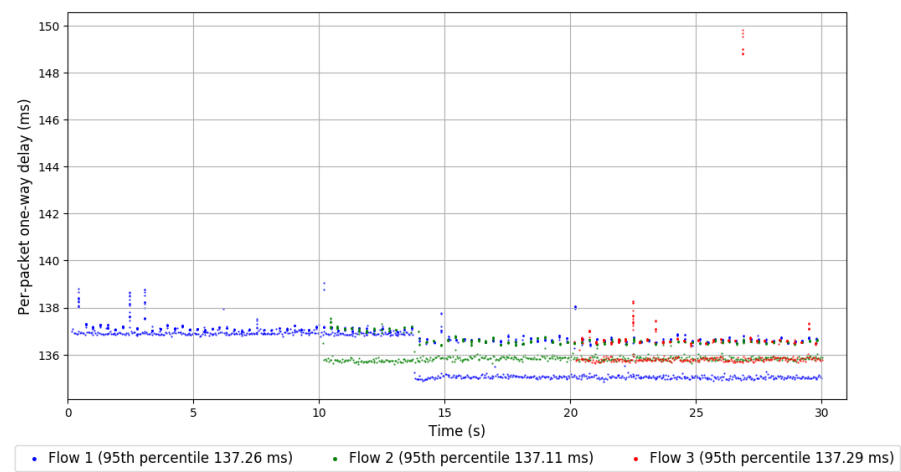
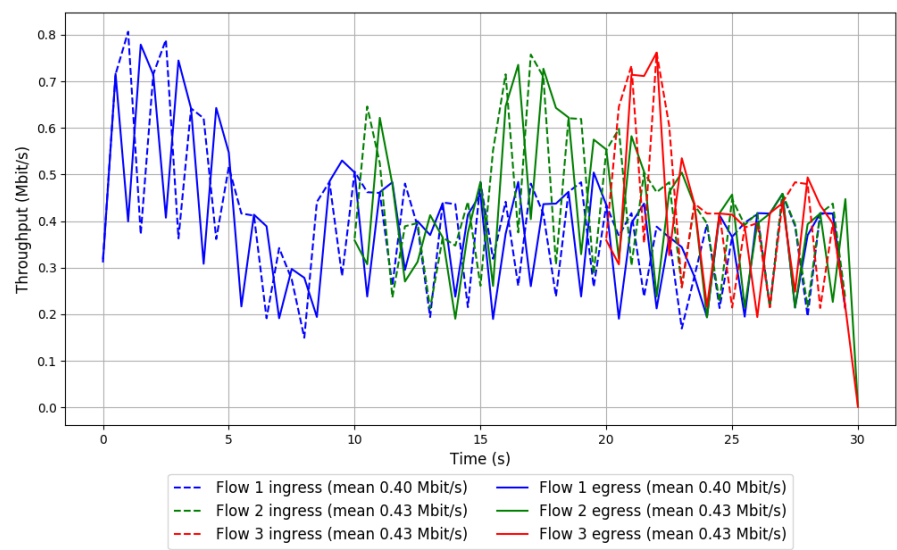
-- Flow 3:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 137.293 ms

Loss rate: 0.00%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2017-12-01 11:37:35

End at: 2017-12-01 11:38:05

Below is generated by plot.py at 2017-12-01 14:29:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.82 Mbit/s

95th percentile per-packet one-way delay: 136.792 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.35 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 136.833 ms

Loss rate: 0.00%

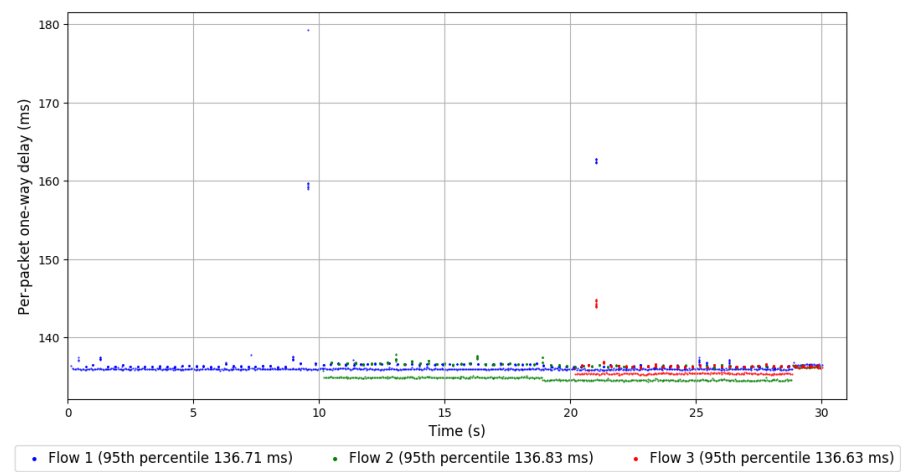
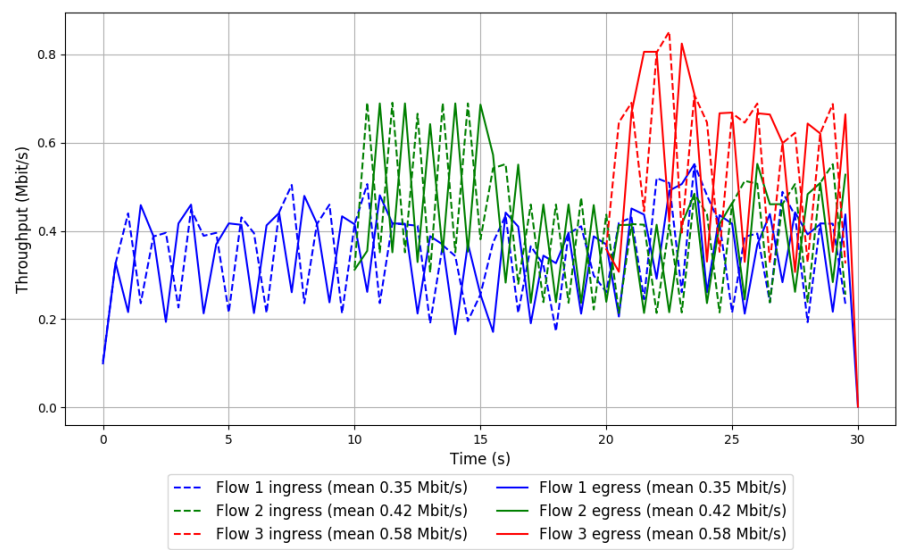
-- Flow 3:

Average throughput: 0.58 Mbit/s

95th percentile per-packet one-way delay: 136.629 ms

Loss rate: 0.00%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2017-12-01 11:51:51

End at: 2017-12-01 11:52:21

Below is generated by plot.py at 2017-12-01 14:29:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.96 Mbit/s

95th percentile per-packet one-way delay: 137.198 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.52 Mbit/s

95th percentile per-packet one-way delay: 136.743 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 137.272 ms

Loss rate: 0.00%

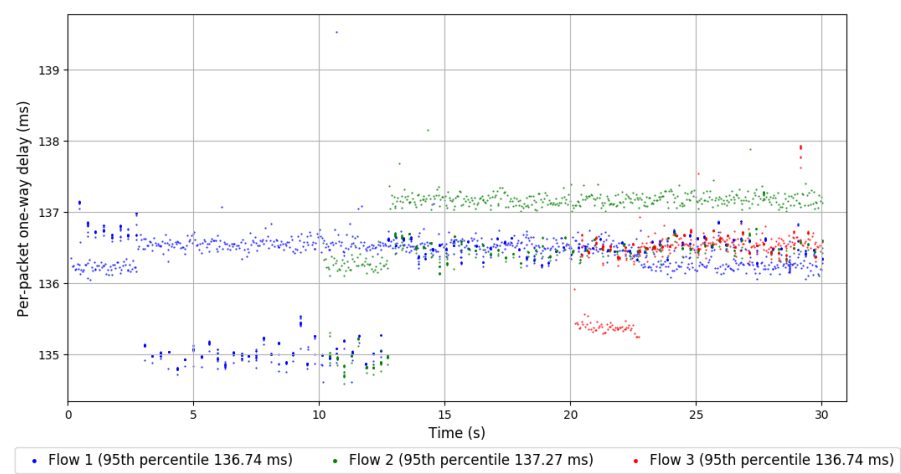
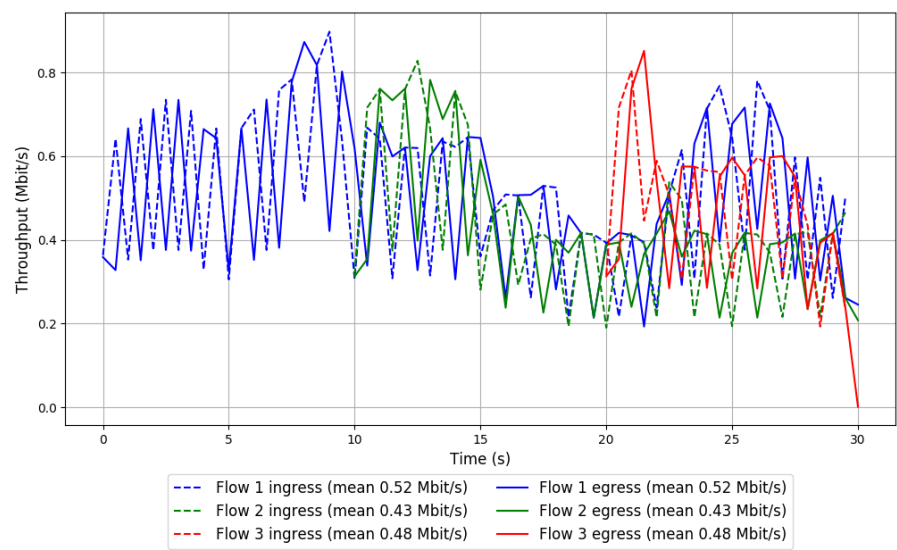
-- Flow 3:

Average throughput: 0.48 Mbit/s

95th percentile per-packet one-way delay: 136.738 ms

Loss rate: 0.00%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2017-12-01 12:05:51

End at: 2017-12-01 12:06:21

Below is generated by plot.py at 2017-12-01 14:29:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.75 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 137.335 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.41 Mbit/s

95th percentile per-packet one-way delay: 137.395 ms

Loss rate: 0.00%

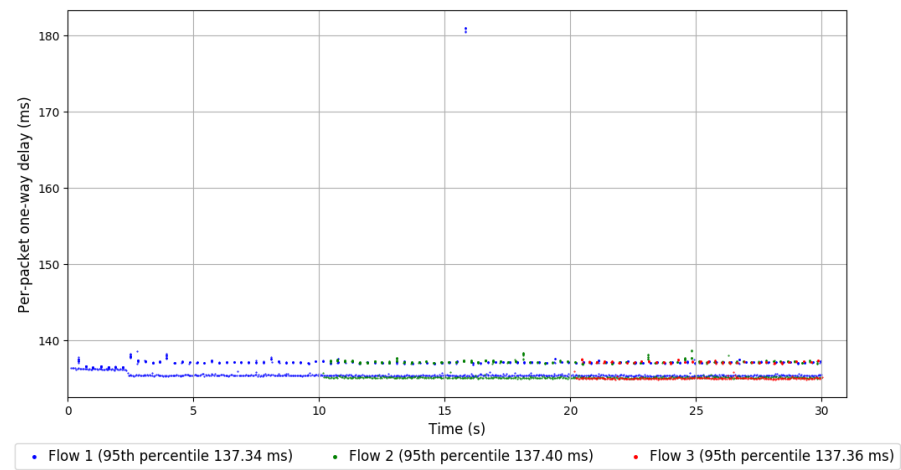
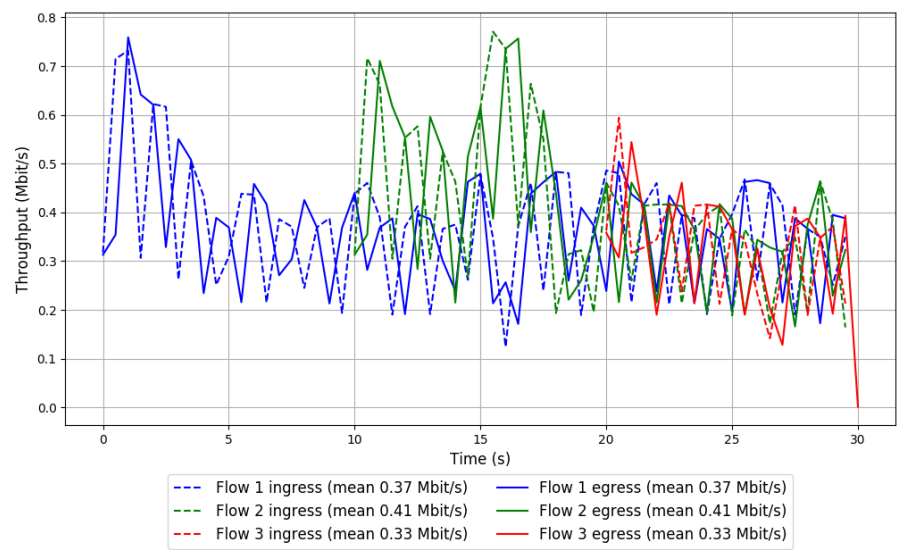
-- Flow 3:

Average throughput: 0.33 Mbit/s

95th percentile per-packet one-way delay: 137.357 ms

Loss rate: 0.00%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

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

End at: 2017-12-01 12:20:18

Below is generated by plot.py at 2017-12-01 14:29:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.83 Mbit/s

95th percentile per-packet one-way delay: 137.204 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.40 Mbit/s

95th percentile per-packet one-way delay: 137.183 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.41 Mbit/s

95th percentile per-packet one-way delay: 137.244 ms

Loss rate: 0.00%

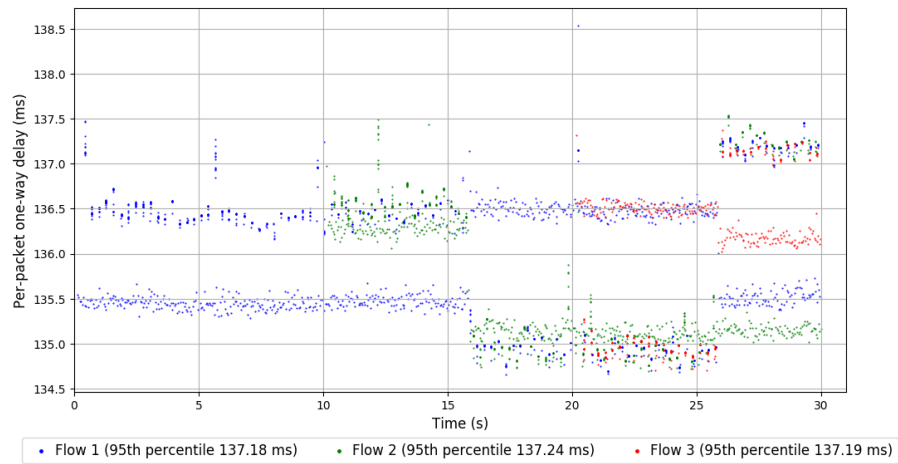
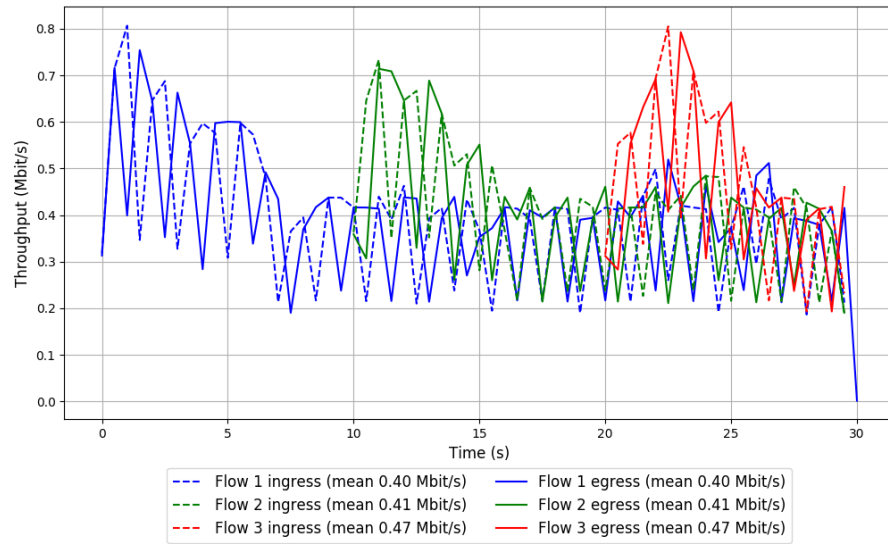
-- Flow 3:

Average throughput: 0.47 Mbit/s

95th percentile per-packet one-way delay: 137.189 ms

Loss rate: 0.00%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2017-12-01 12:33:20

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

Below is generated by plot.py at 2017-12-01 14:29:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.84 Mbit/s

95th percentile per-packet one-way delay: 137.343 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 137.400 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 137.276 ms

Loss rate: 0.00%

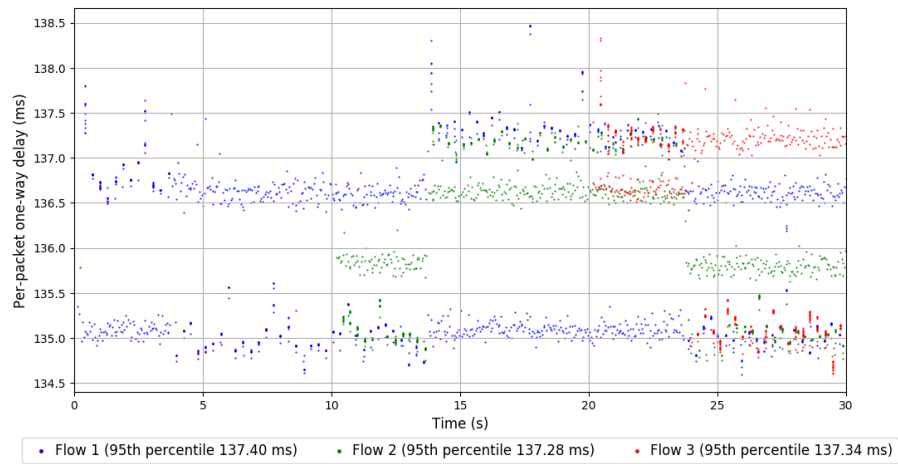
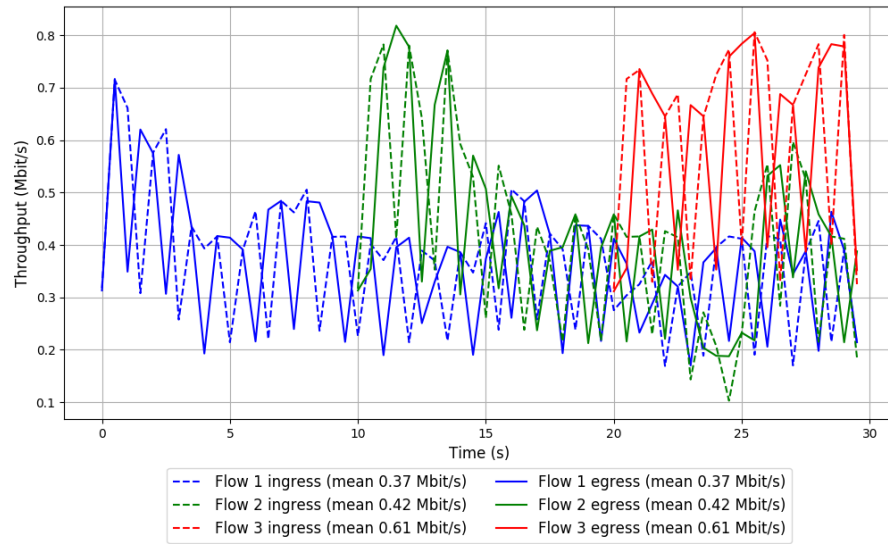
-- Flow 3:

Average throughput: 0.61 Mbit/s

95th percentile per-packet one-way delay: 137.343 ms

Loss rate: 0.00%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

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

End at: 2017-12-01 12:47:39

Below is generated by plot.py at 2017-12-01 14:29:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.80 Mbit/s

95th percentile per-packet one-way delay: 137.405 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.41 Mbit/s

95th percentile per-packet one-way delay: 137.347 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.41 Mbit/s

95th percentile per-packet one-way delay: 137.424 ms

Loss rate: 0.00%

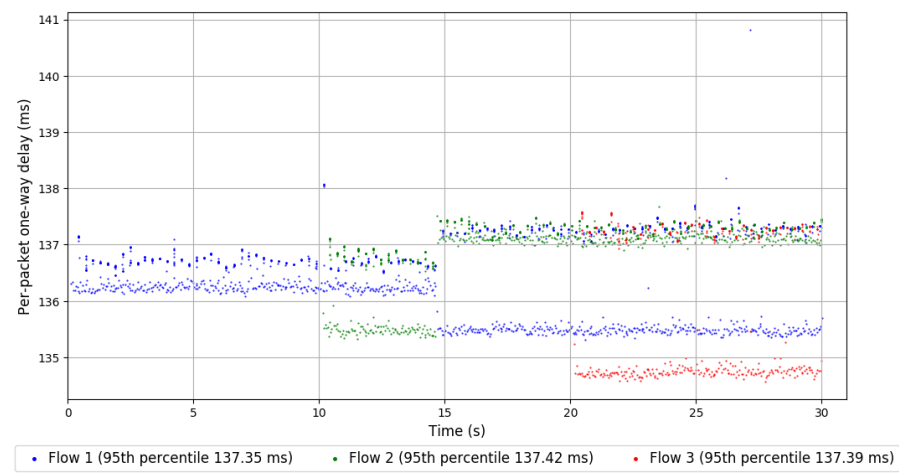
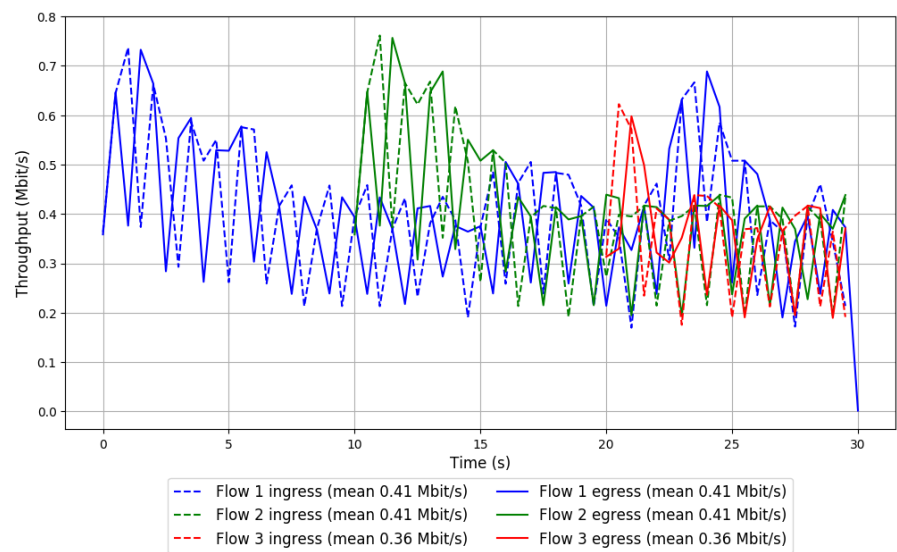
-- Flow 3:

Average throughput: 0.36 Mbit/s

95th percentile per-packet one-way delay: 137.390 ms

Loss rate: 0.00%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2017-12-01 13:01:35

End at: 2017-12-01 13:02:05

Below is generated by plot.py at 2017-12-01 14:29:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.81 Mbit/s

95th percentile per-packet one-way delay: 137.238 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.36 Mbit/s

95th percentile per-packet one-way delay: 137.382 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.40 Mbit/s

95th percentile per-packet one-way delay: 136.944 ms

Loss rate: 0.00%

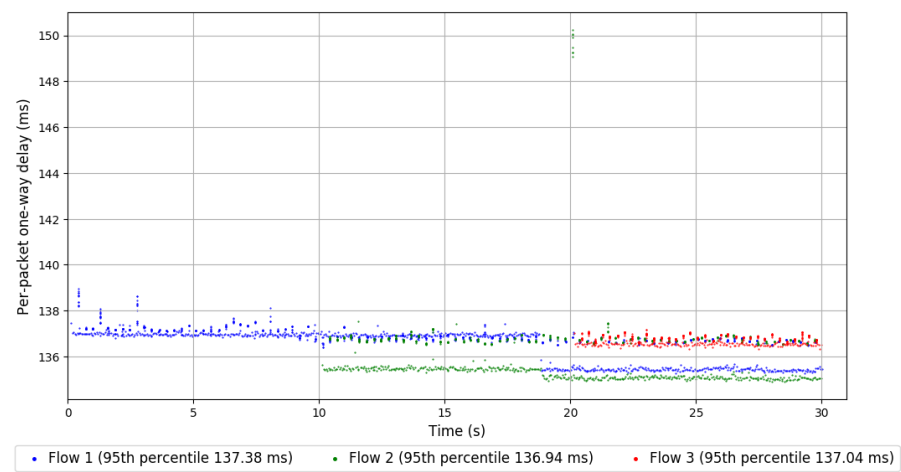
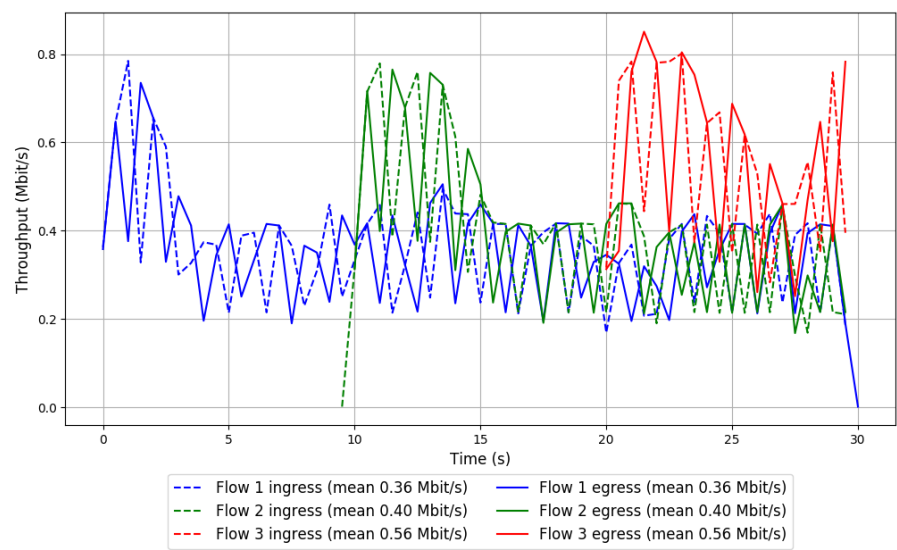
-- Flow 3:

Average throughput: 0.56 Mbit/s

95th percentile per-packet one-way delay: 137.038 ms

Loss rate: 0.00%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2017-12-01 13:15:13

End at: 2017-12-01 13:15:43

Below is generated by plot.py at 2017-12-01 14:29:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.81 Mbit/s

95th percentile per-packet one-way delay: 137.324 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 137.258 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.41 Mbit/s

95th percentile per-packet one-way delay: 137.376 ms

Loss rate: 0.00%

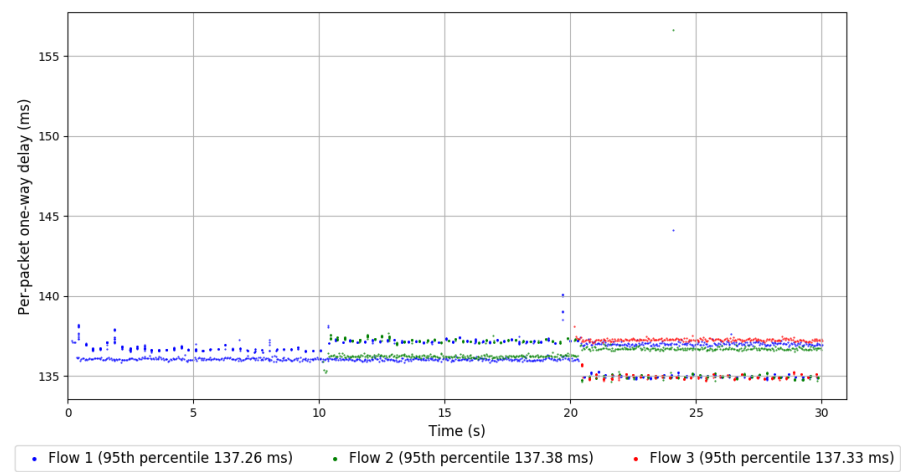
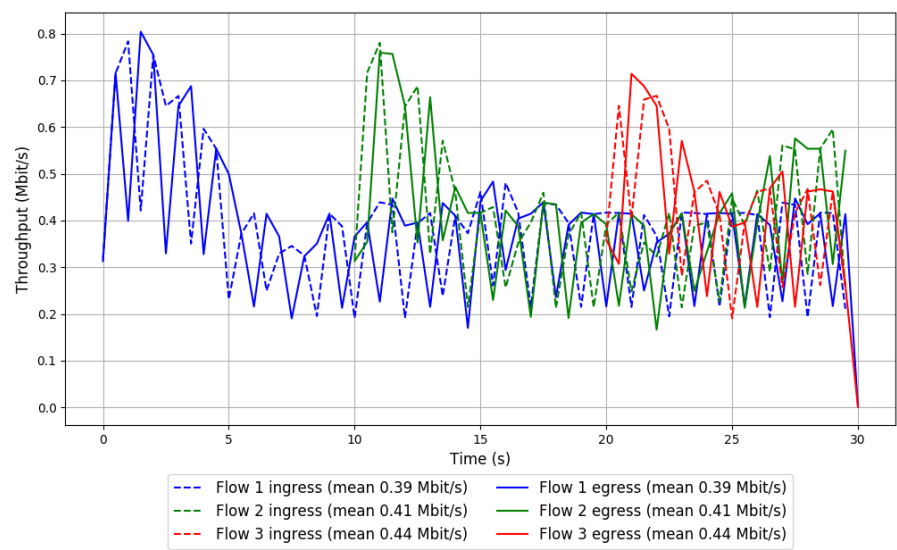
-- Flow 3:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 137.332 ms

Loss rate: 0.00%

Run 10: Report of Sprout — Data Link

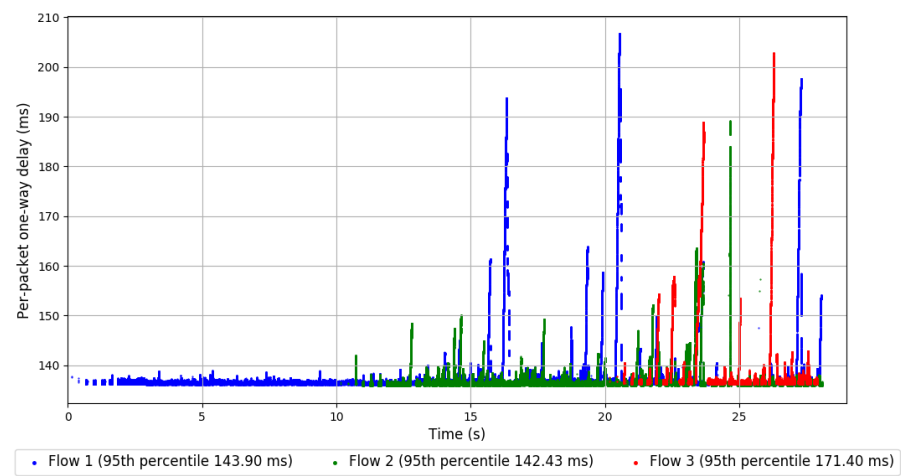
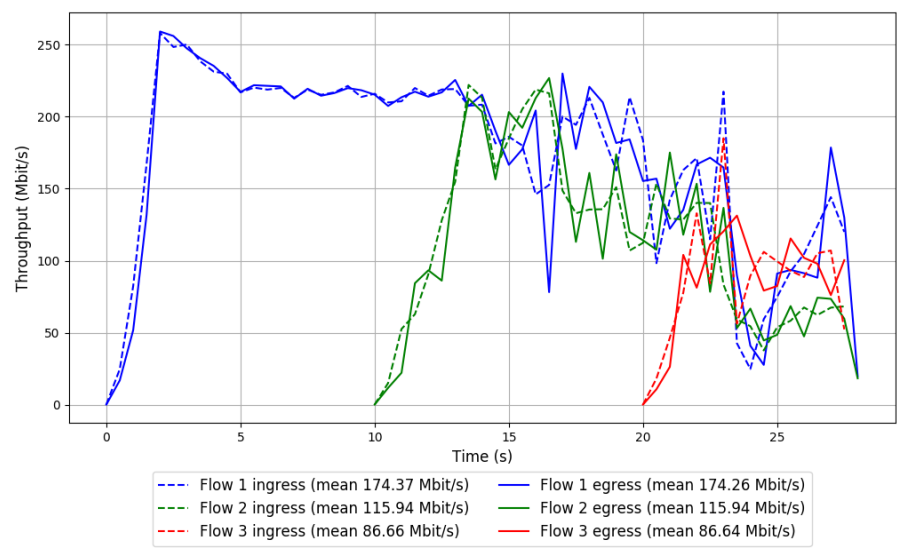


```
Run 1: Statistics of TaoVA-100x

Start at: 2017-12-01 11:07:39
End at: 2017-12-01 11:08:09

# Below is generated by plot.py at 2017-12-01 14:32:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 272.43 Mbit/s
95th percentile per-packet one-way delay: 147.703 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 174.26 Mbit/s
95th percentile per-packet one-way delay: 143.902 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 115.94 Mbit/s
95th percentile per-packet one-way delay: 142.428 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 86.64 Mbit/s
95th percentile per-packet one-way delay: 171.404 ms
Loss rate: 0.02%
```


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

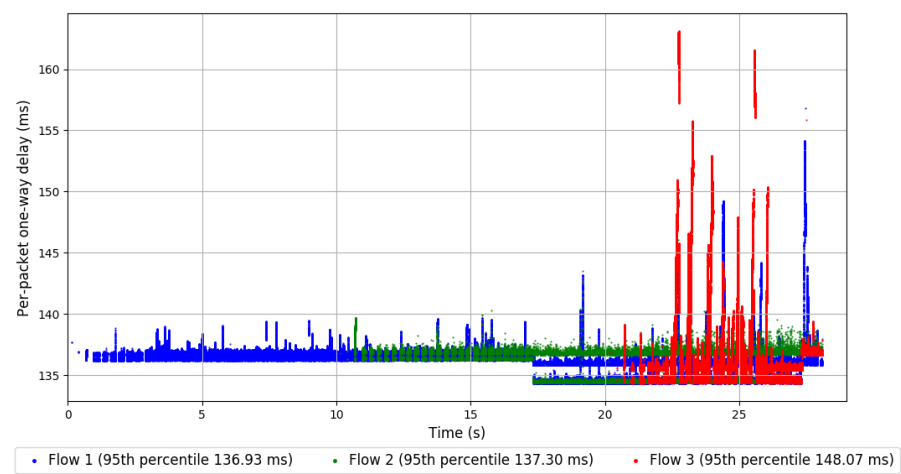
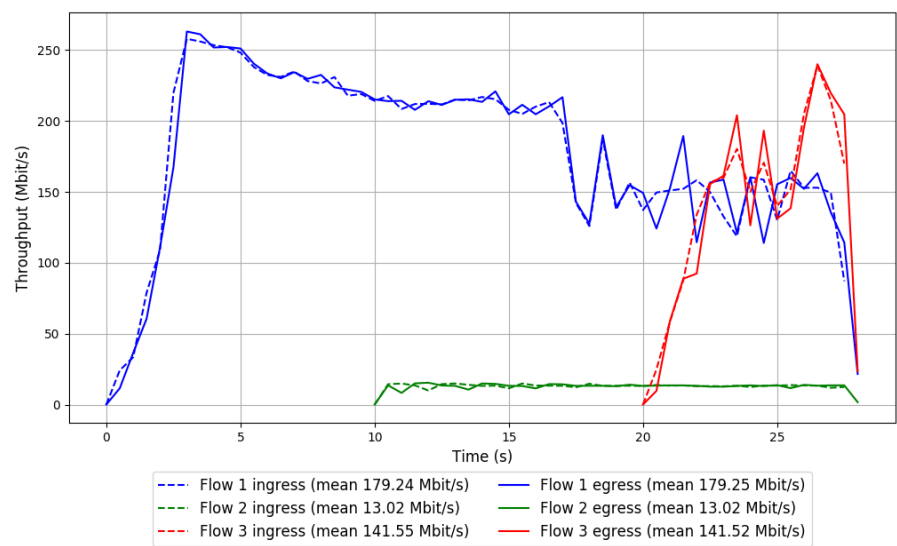


```
Run 2: Statistics of TaoVA-100x

Start at: 2017-12-01 11:21:44
End at: 2017-12-01 11:22:15

# Below is generated by plot.py at 2017-12-01 14:32:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 227.74 Mbit/s
95th percentile per-packet one-way delay: 137.754 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 179.25 Mbit/s
95th percentile per-packet one-way delay: 136.928 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 13.02 Mbit/s
95th percentile per-packet one-way delay: 137.297 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 141.52 Mbit/s
95th percentile per-packet one-way delay: 148.066 ms
Loss rate: 0.00%
```

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

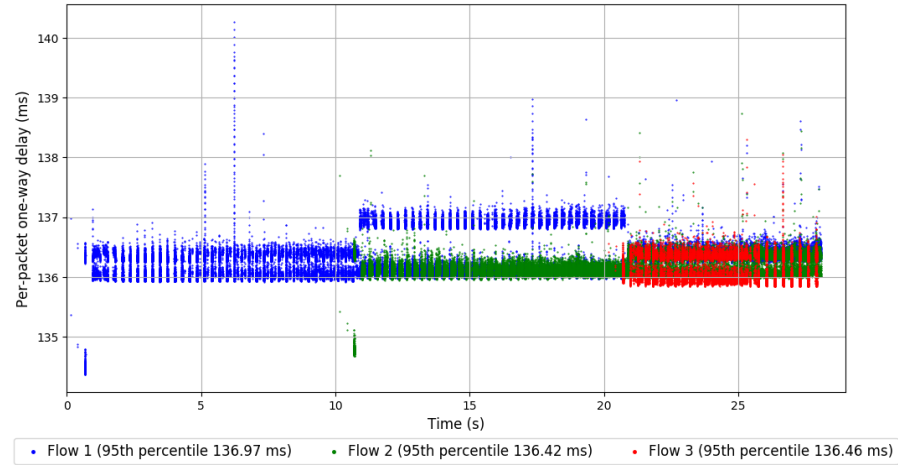
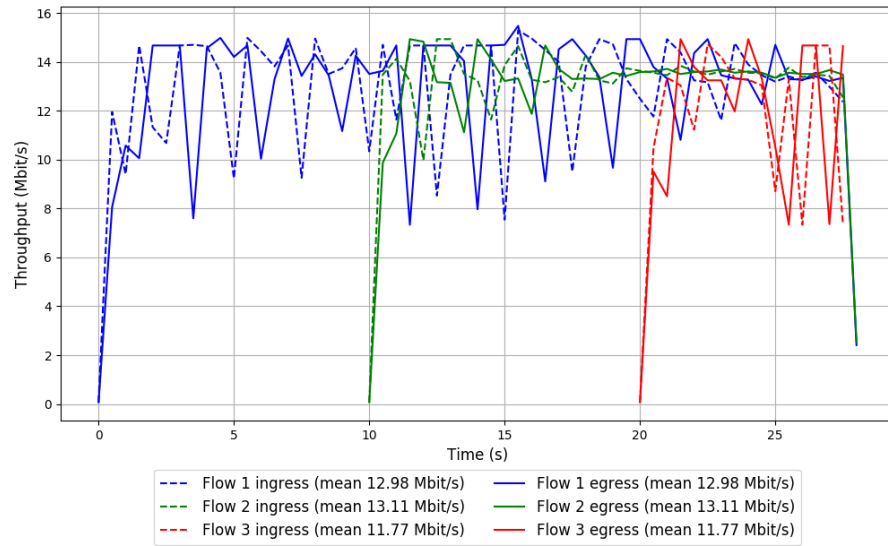


```
Run 3: Statistics of TaoVA-100x

Start at: 2017-12-01 11:35:31
End at: 2017-12-01 11:36:01

# Below is generated by plot.py at 2017-12-01 14:32:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 24.67 Mbit/s
95th percentile per-packet one-way delay: 136.912 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 12.98 Mbit/s
95th percentile per-packet one-way delay: 136.972 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 13.11 Mbit/s
95th percentile per-packet one-way delay: 136.417 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 11.77 Mbit/s
95th percentile per-packet one-way delay: 136.464 ms
Loss rate: 0.00%
```

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



Run 4: Statistics of TaoVA-100x

Start at: 2017-12-01 11:49:10

End at: 2017-12-01 11:49:40

Below is generated by plot.py at 2017-12-01 14:32:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 266.01 Mbit/s

95th percentile per-packet one-way delay: 149.884 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 156.75 Mbit/s

95th percentile per-packet one-way delay: 147.503 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 129.43 Mbit/s

95th percentile per-packet one-way delay: 151.366 ms

Loss rate: 0.01%

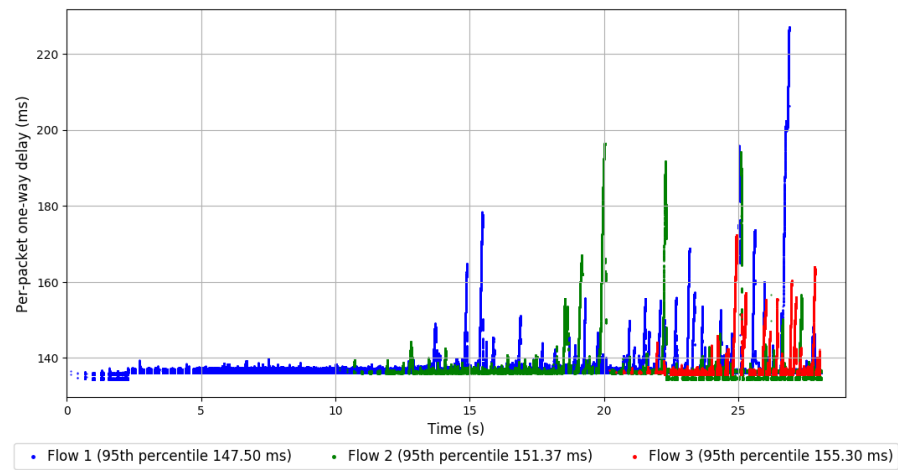
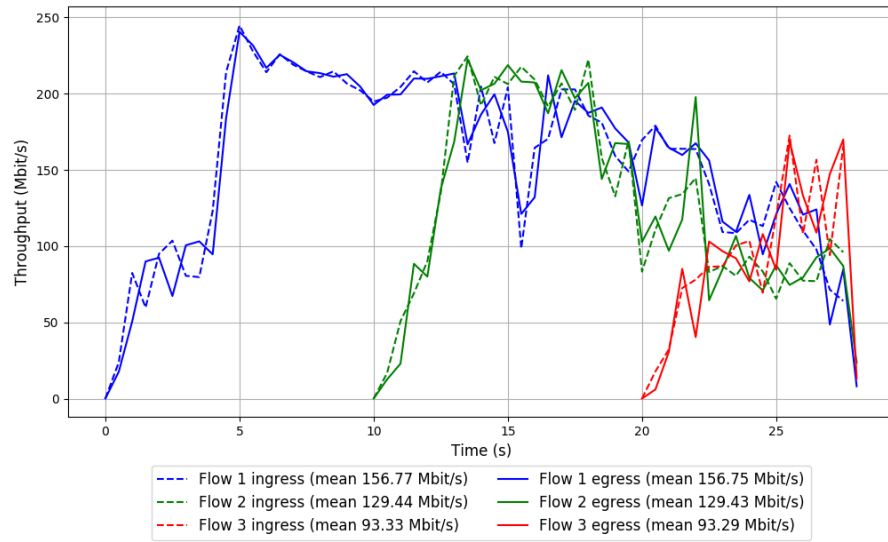
-- Flow 3:

Average throughput: 93.29 Mbit/s

95th percentile per-packet one-way delay: 155.300 ms

Loss rate: 0.00%

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



Run 5: Statistics of TaoVA-100x

Start at: 2017-12-01 12:03:36

End at: 2017-12-01 12:04:06

Below is generated by plot.py at 2017-12-01 14:32:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 130.71 Mbit/s

95th percentile per-packet one-way delay: 138.024 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 7.50 Mbit/s

95th percentile per-packet one-way delay: 137.020 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 186.89 Mbit/s

95th percentile per-packet one-way delay: 138.285 ms

Loss rate: 0.00%

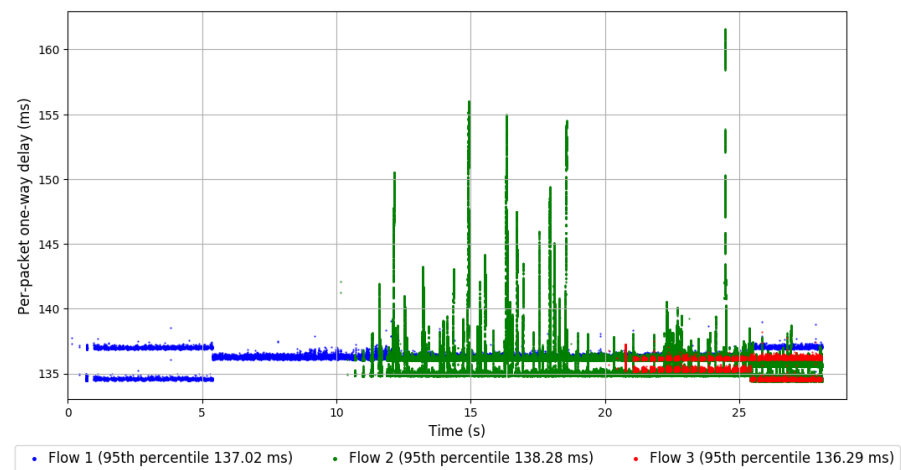
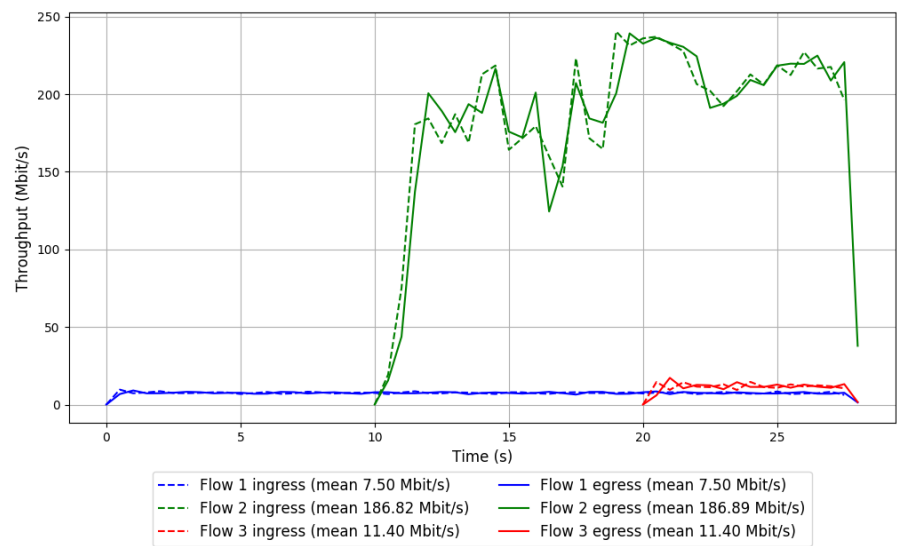
-- Flow 3:

Average throughput: 11.40 Mbit/s

95th percentile per-packet one-way delay: 136.291 ms

Loss rate: 0.00%

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



Run 6: Statistics of TaoVA-100x

Start at: 2017-12-01 12:17:22

End at: 2017-12-01 12:17:52

Below is generated by plot.py at 2017-12-01 14:32:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 141.47 Mbit/s

95th percentile per-packet one-way delay: 137.132 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 13.23 Mbit/s

95th percentile per-packet one-way delay: 136.242 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 194.28 Mbit/s

95th percentile per-packet one-way delay: 137.297 ms

Loss rate: 0.03%

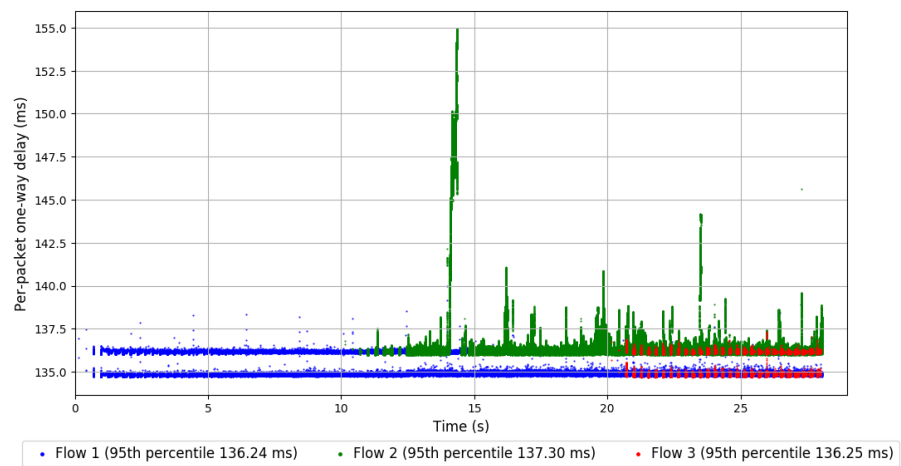
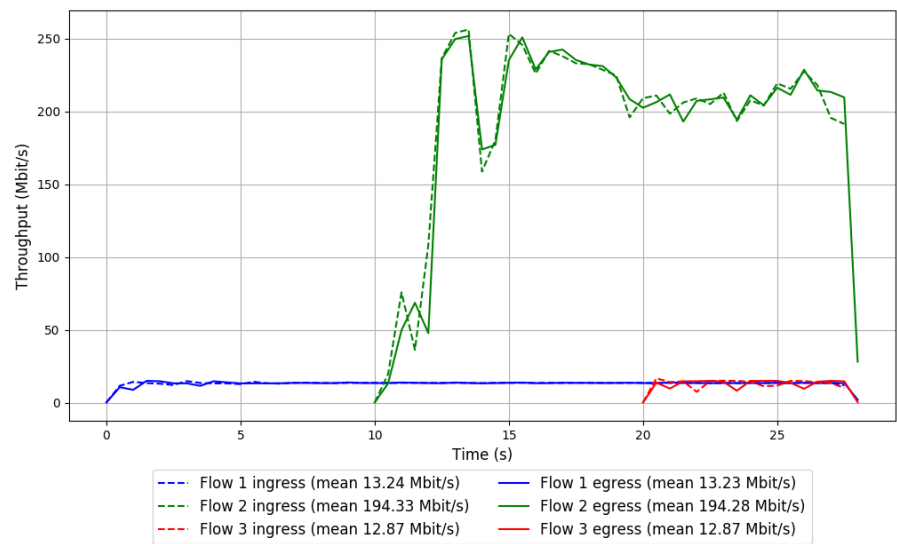
-- Flow 3:

Average throughput: 12.87 Mbit/s

95th percentile per-packet one-way delay: 136.255 ms

Loss rate: 0.00%

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



Run 7: Statistics of TaoVA-100x

Start at: 2017-12-01 12:31:16

End at: 2017-12-01 12:31:46

Below is generated by plot.py at 2017-12-01 14:32:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 59.49 Mbit/s

95th percentile per-packet one-way delay: 136.914 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 13.30 Mbit/s

95th percentile per-packet one-way delay: 136.900 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 13.00 Mbit/s

95th percentile per-packet one-way delay: 136.646 ms

Loss rate: 0.00%

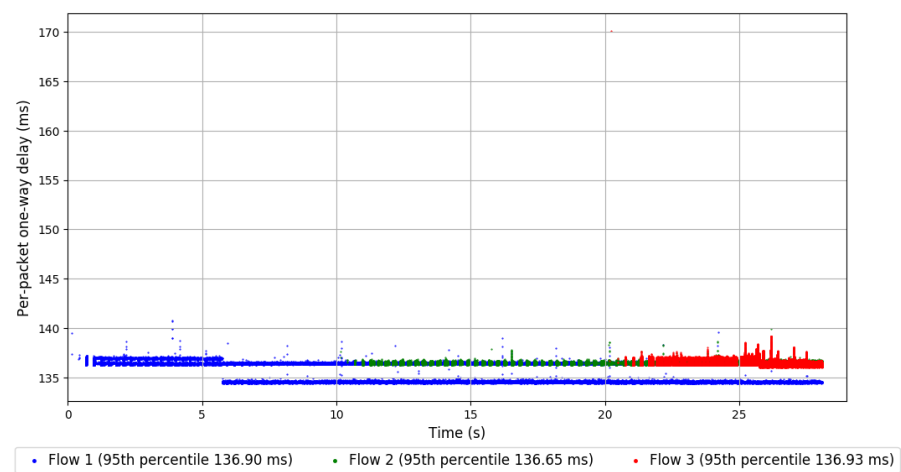
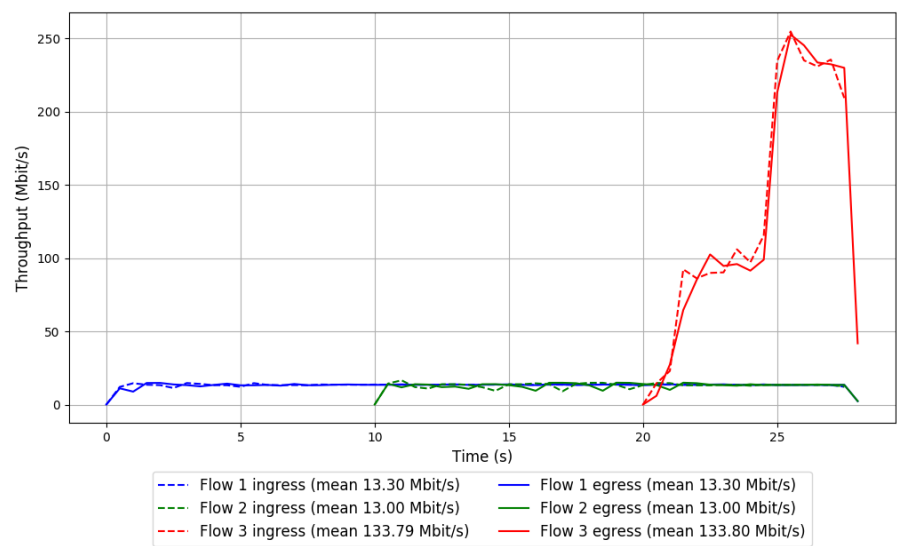
-- Flow 3:

Average throughput: 133.80 Mbit/s

95th percentile per-packet one-way delay: 136.931 ms

Loss rate: 0.00%

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



Run 8: Statistics of TaoVA-100x

Start at: 2017-12-01 12:44:51

End at: 2017-12-01 12:45:21

Below is generated by plot.py at 2017-12-01 14:32:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 113.69 Mbit/s

95th percentile per-packet one-way delay: 144.242 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 12.63 Mbit/s

95th percentile per-packet one-way delay: 137.017 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 97.95 Mbit/s

95th percentile per-packet one-way delay: 144.130 ms

Loss rate: 0.00%

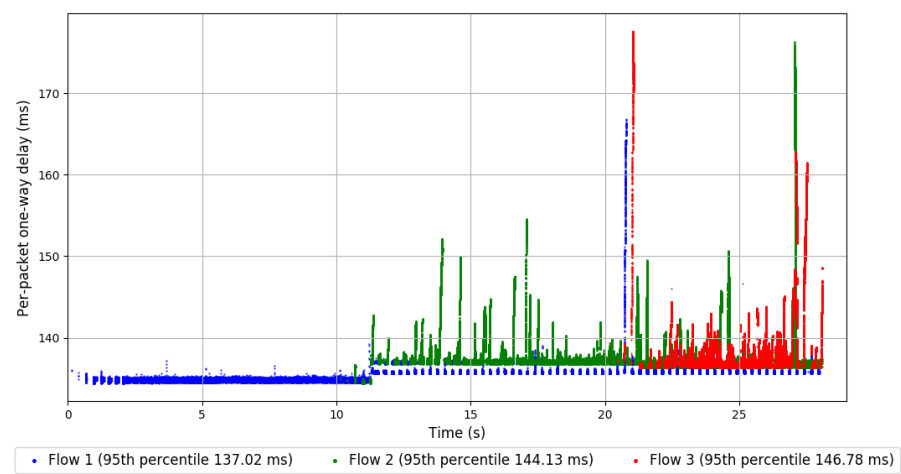
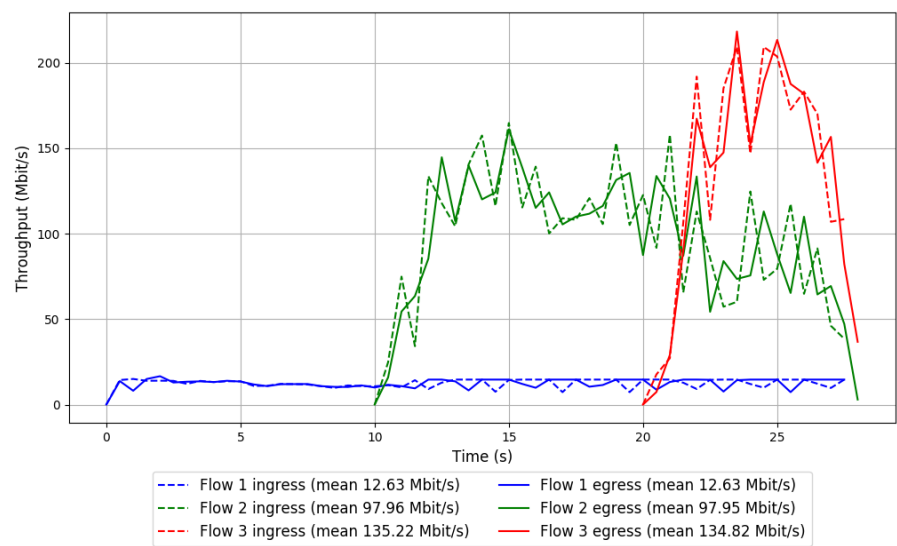
-- Flow 3:

Average throughput: 134.82 Mbit/s

95th percentile per-packet one-way delay: 146.781 ms

Loss rate: 0.35%

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



Run 9: Statistics of TaoVA-100x

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

End at: 2017-12-01 12:59:28

Below is generated by plot.py at 2017-12-01 14:38:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 285.87 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 157.93 Mbit/s

95th percentile per-packet one-way delay: 137.783 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 165.48 Mbit/s

95th percentile per-packet one-way delay: 137.391 ms

Loss rate: 0.00%

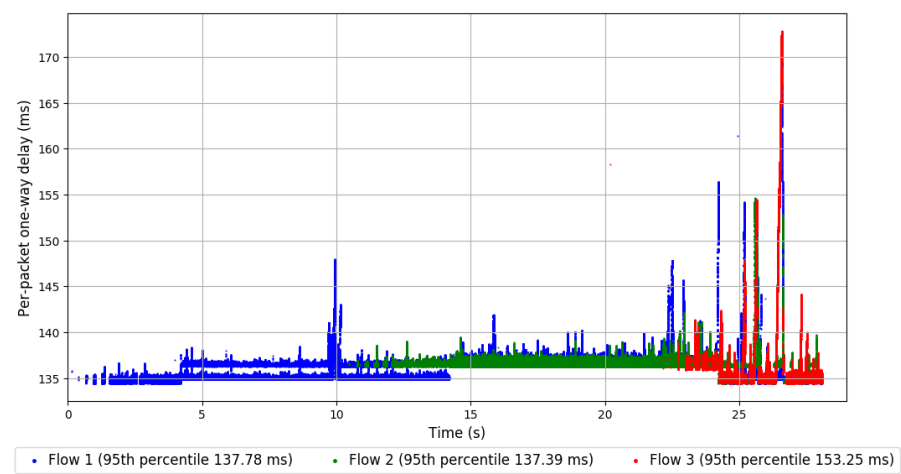
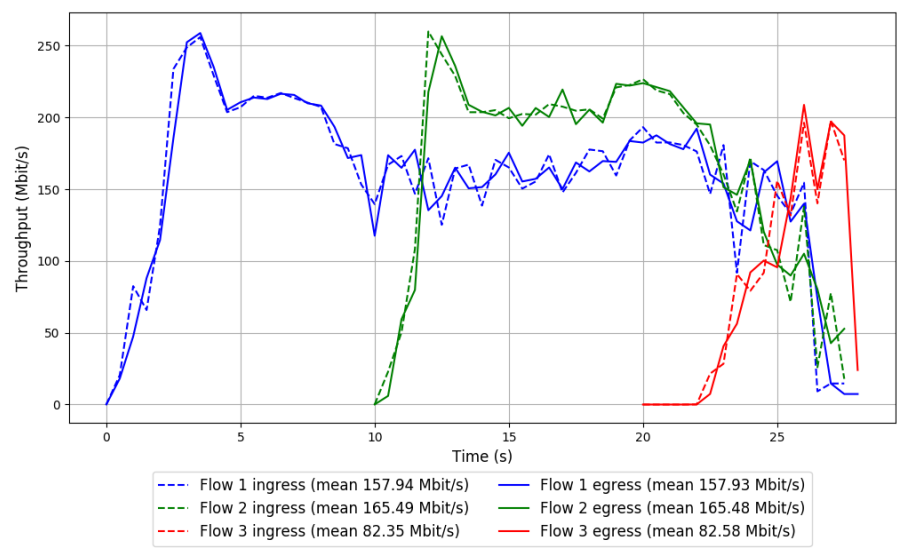
-- Flow 3:

Average throughput: 82.58 Mbit/s

95th percentile per-packet one-way delay: 153.254 ms

Loss rate: 0.02%

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

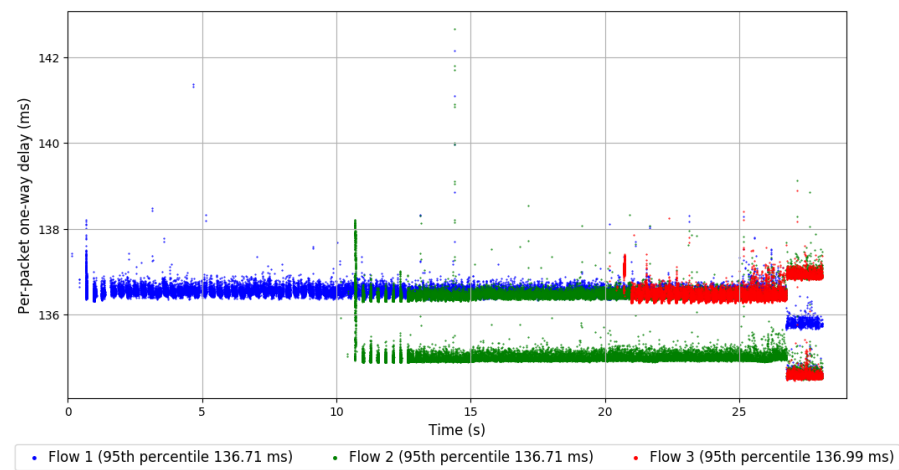
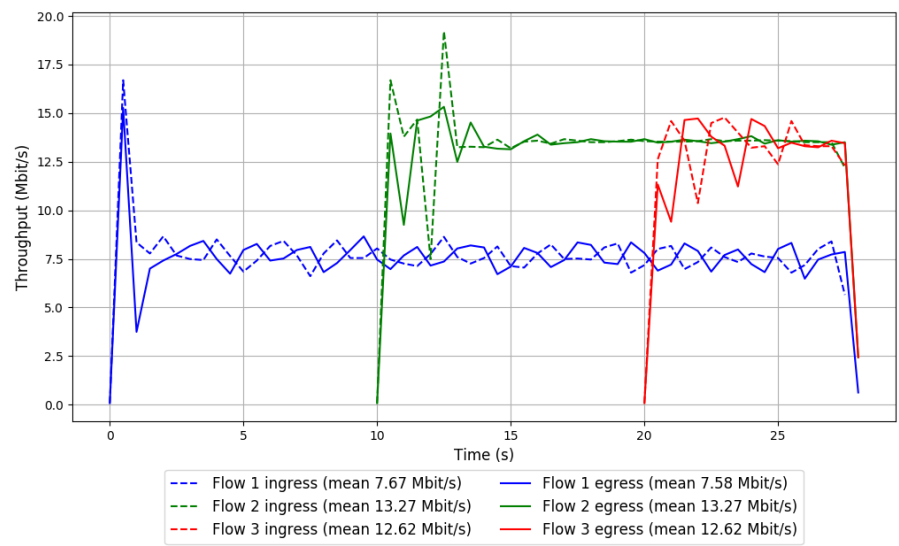


```
Run 10: Statistics of TaoVA-100x

Start at: 2017-12-01 13:13:05
End at: 2017-12-01 13:13:35

# Below is generated by plot.py at 2017-12-01 14:38:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 19.68 Mbit/s
95th percentile per-packet one-way delay: 136.817 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 7.58 Mbit/s
95th percentile per-packet one-way delay: 136.710 ms
Loss rate: 1.21%
-- Flow 2:
Average throughput: 13.27 Mbit/s
95th percentile per-packet one-way delay: 136.709 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 12.62 Mbit/s
95th percentile per-packet one-way delay: 136.991 ms
Loss rate: 0.00%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2017-12-01 11:20:00

End at: 2017-12-01 11:20:31

Below is generated by plot.py at 2017-12-01 14:38:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 79.20 Mbit/s

95th percentile per-packet one-way delay: 138.191 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 40.00 Mbit/s

95th percentile per-packet one-way delay: 137.765 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 38.19 Mbit/s

95th percentile per-packet one-way delay: 138.596 ms

Loss rate: 0.03%

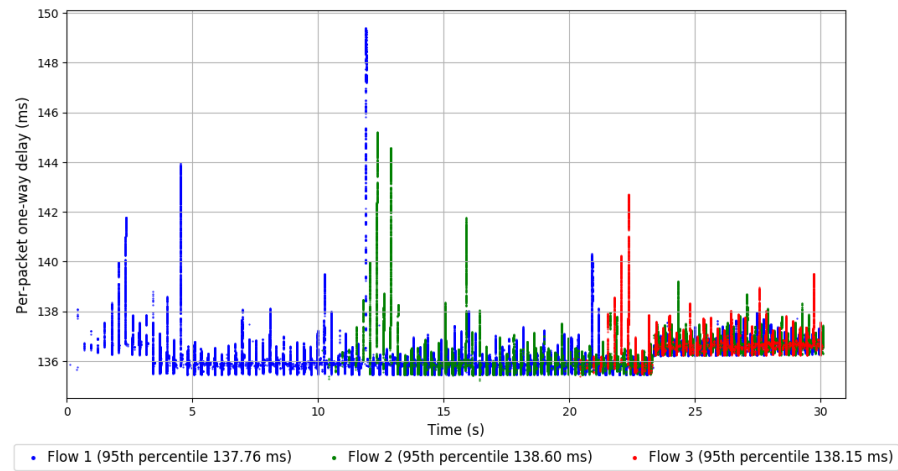
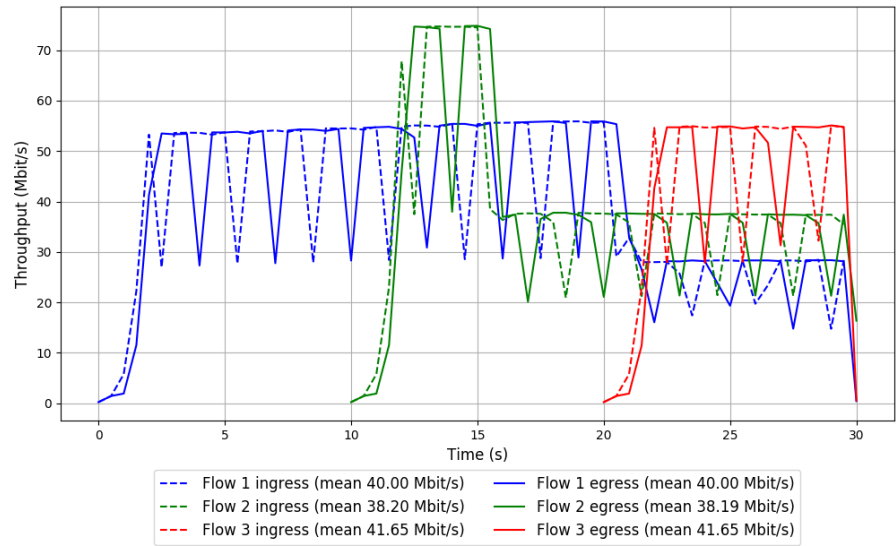
-- Flow 3:

Average throughput: 41.65 Mbit/s

95th percentile per-packet one-way delay: 138.151 ms

Loss rate: 0.00%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2017-12-01 11:33:50

End at: 2017-12-01 11:34:20

Below is generated by plot.py at 2017-12-01 14:38:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 17.20 Mbit/s

95th percentile per-packet one-way delay: 138.414 ms

Loss rate: 1.36%

-- Flow 1:

Average throughput: 2.85 Mbit/s

95th percentile per-packet one-way delay: 137.192 ms

Loss rate: 0.14%

-- Flow 2:

Average throughput: 13.77 Mbit/s

95th percentile per-packet one-way delay: 138.318 ms

Loss rate: 2.45%

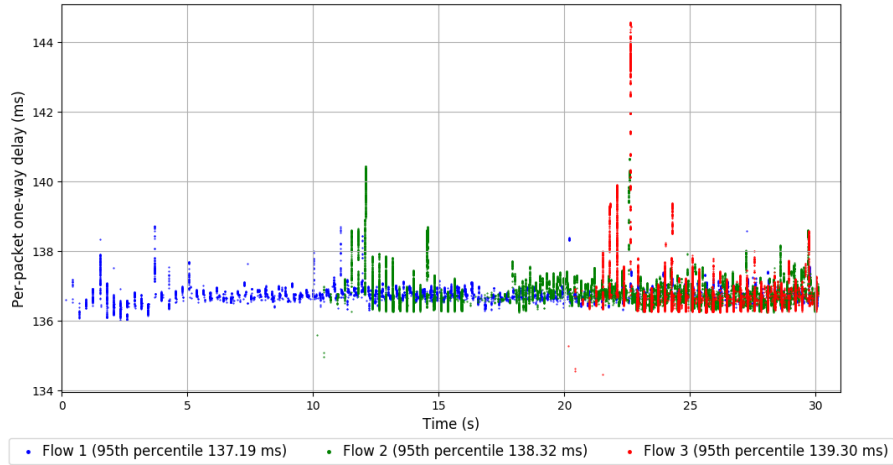
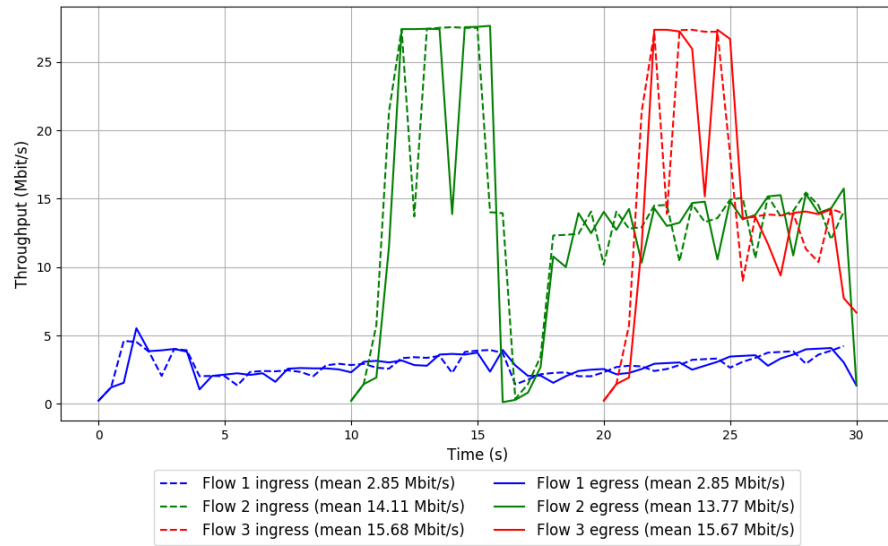
-- Flow 3:

Average throughput: 15.67 Mbit/s

95th percentile per-packet one-way delay: 139.299 ms

Loss rate: 0.06%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2017-12-01 11:47:23

End at: 2017-12-01 11:47:53

Below is generated by plot.py at 2017-12-01 14:38:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 73.44 Mbit/s

95th percentile per-packet one-way delay: 144.090 ms

Loss rate: 0.36%

-- Flow 1:

Average throughput: 12.25 Mbit/s

95th percentile per-packet one-way delay: 138.319 ms

Loss rate: 2.10%

-- Flow 2:

Average throughput: 74.81 Mbit/s

95th percentile per-packet one-way delay: 145.113 ms

Loss rate: 0.00%

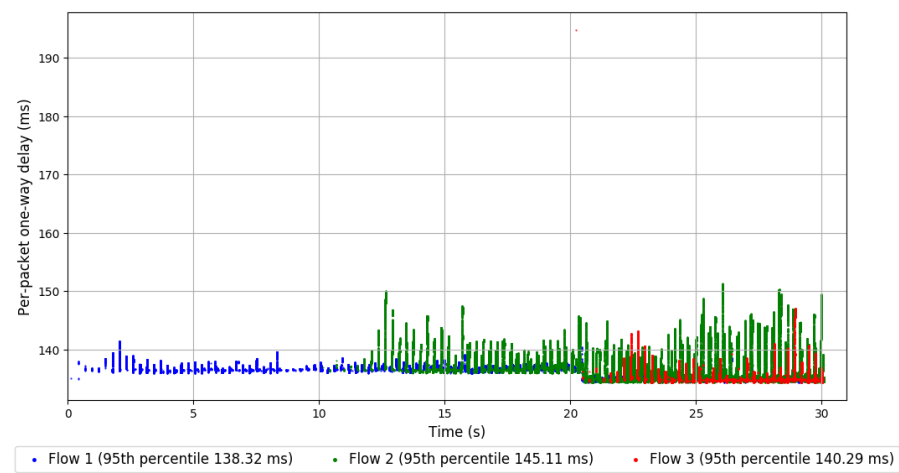
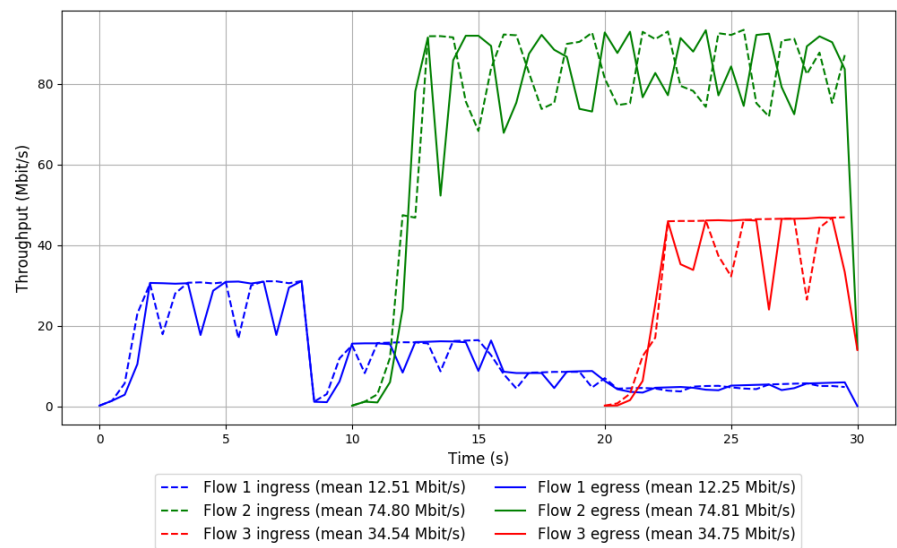
-- Flow 3:

Average throughput: 34.75 Mbit/s

95th percentile per-packet one-way delay: 140.286 ms

Loss rate: 0.00%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

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

End at: 2017-12-01 12:02:20

Below is generated by plot.py at 2017-12-01 14:38:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 68.67 Mbit/s

95th percentile per-packet one-way delay: 147.770 ms

Loss rate: 0.23%

-- Flow 1:

Average throughput: 44.64 Mbit/s

95th percentile per-packet one-way delay: 148.523 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 23.41 Mbit/s

95th percentile per-packet one-way delay: 139.438 ms

Loss rate: 0.93%

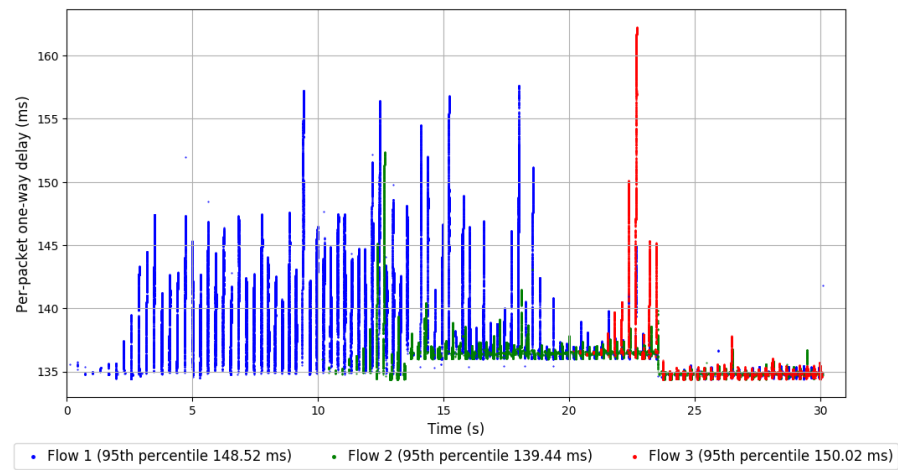
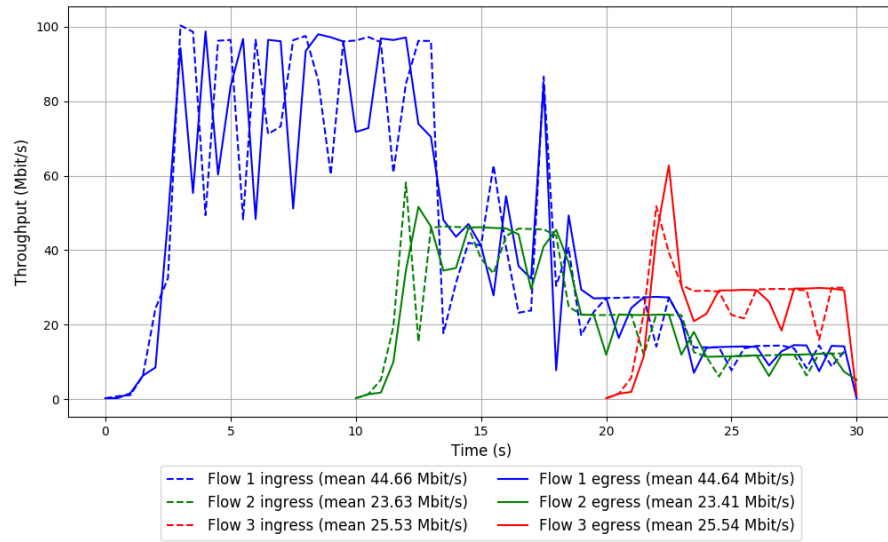
-- Flow 3:

Average throughput: 25.54 Mbit/s

95th percentile per-packet one-way delay: 150.023 ms

Loss rate: 0.00%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2017-12-01 12:15:38

End at: 2017-12-01 12:16:08

Below is generated by plot.py at 2017-12-01 14:38:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 41.05 Mbit/s

95th percentile per-packet one-way delay: 146.107 ms

Loss rate: 1.08%

-- Flow 1:

Average throughput: 18.85 Mbit/s

95th percentile per-packet one-way delay: 148.965 ms

Loss rate: 1.56%

-- Flow 2:

Average throughput: 21.42 Mbit/s

95th percentile per-packet one-way delay: 139.718 ms

Loss rate: 0.96%

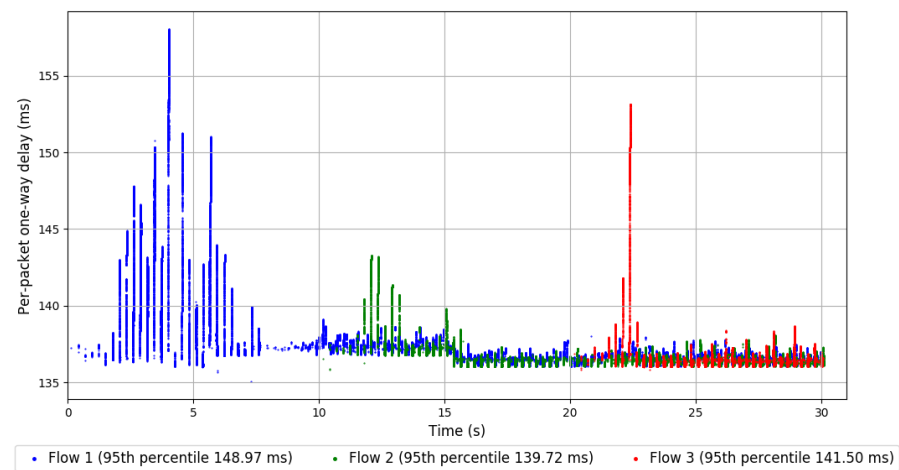
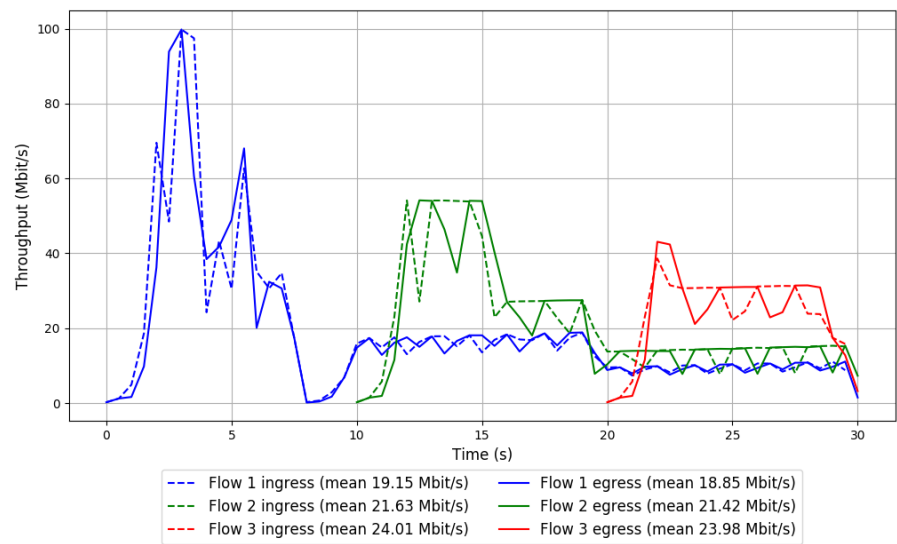
-- Flow 3:

Average throughput: 23.98 Mbit/s

95th percentile per-packet one-way delay: 141.500 ms

Loss rate: 0.12%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2017-12-01 12:29:31

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

Below is generated by plot.py at 2017-12-01 14:38:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 59.13 Mbit/s

95th percentile per-packet one-way delay: 144.190 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 28.81 Mbit/s

95th percentile per-packet one-way delay: 141.757 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 33.16 Mbit/s

95th percentile per-packet one-way delay: 144.370 ms

Loss rate: 0.03%

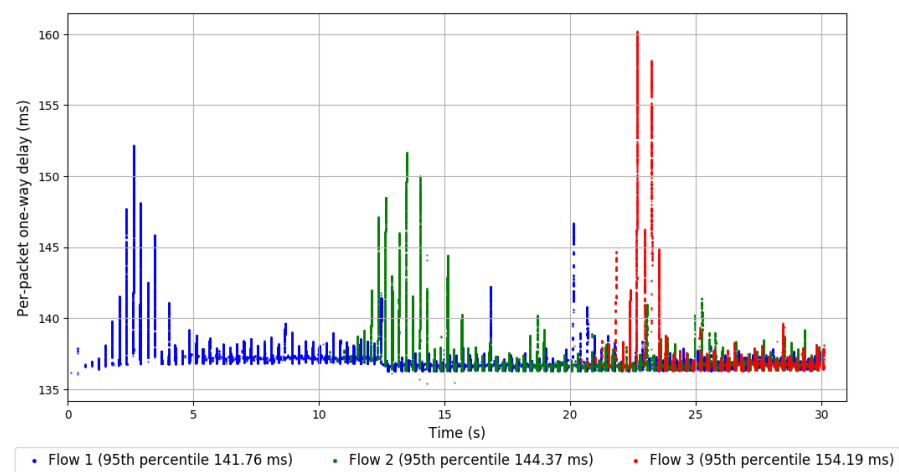
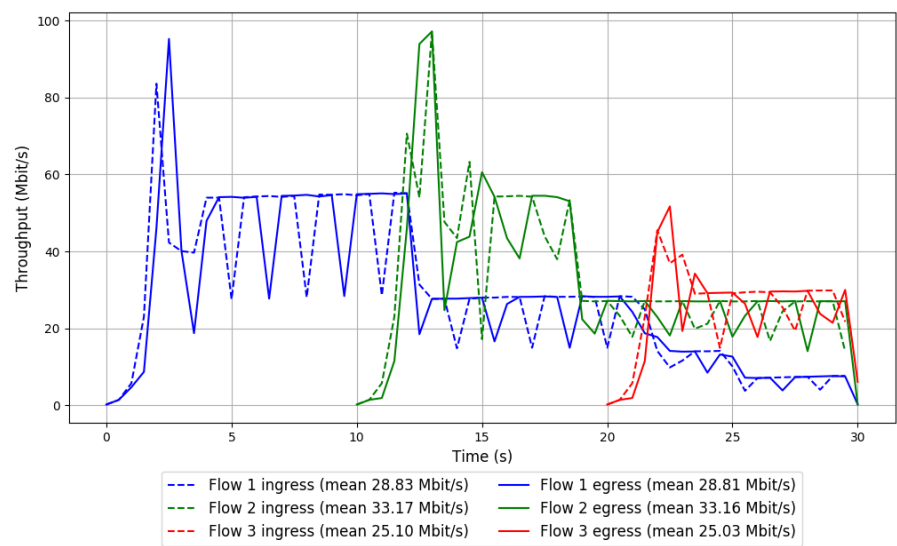
-- Flow 3:

Average throughput: 25.03 Mbit/s

95th percentile per-packet one-way delay: 154.193 ms

Loss rate: 0.29%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2017-12-01 12:43:07

End at: 2017-12-01 12:43:37

Below is generated by plot.py at 2017-12-01 14:38:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 47.76 Mbit/s

95th percentile per-packet one-way delay: 143.504 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 9.35 Mbit/s

95th percentile per-packet one-way delay: 143.262 ms

Loss rate: 0.21%

-- Flow 2:

Average throughput: 37.36 Mbit/s

95th percentile per-packet one-way delay: 144.042 ms

Loss rate: 0.00%

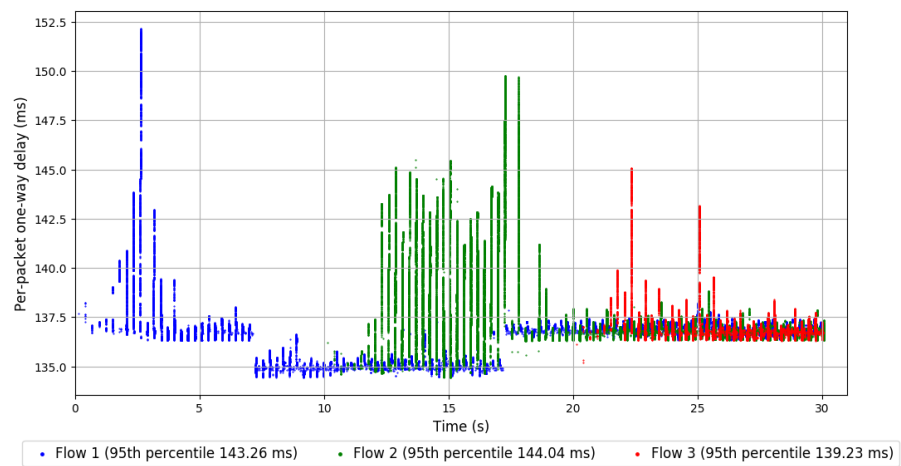
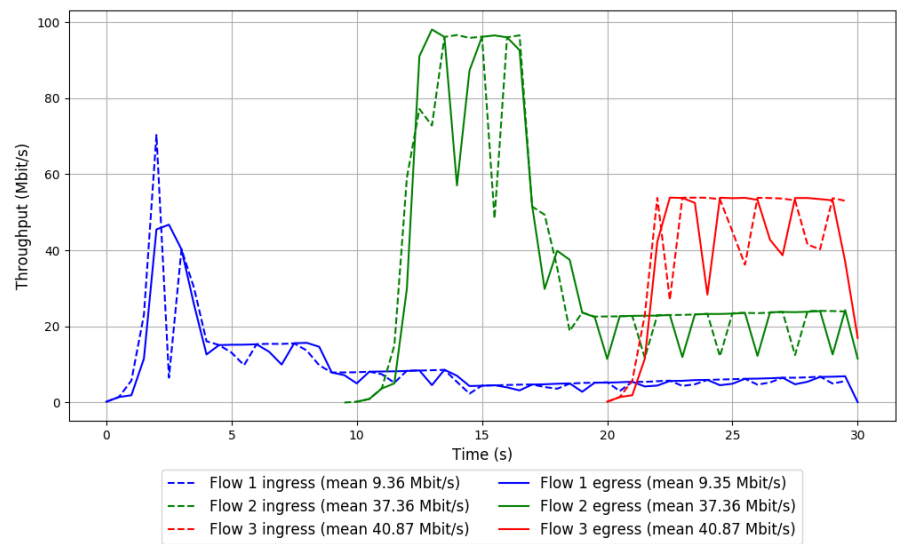
-- Flow 3:

Average throughput: 40.87 Mbit/s

95th percentile per-packet one-way delay: 139.232 ms

Loss rate: 0.00%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2017-12-01 12:57:13

End at: 2017-12-01 12:57:43

Below is generated by plot.py at 2017-12-01 14:38:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 61.28 Mbit/s

95th percentile per-packet one-way delay: 142.767 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 36.04 Mbit/s

95th percentile per-packet one-way delay: 142.049 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 23.64 Mbit/s

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

Loss rate: 0.05%

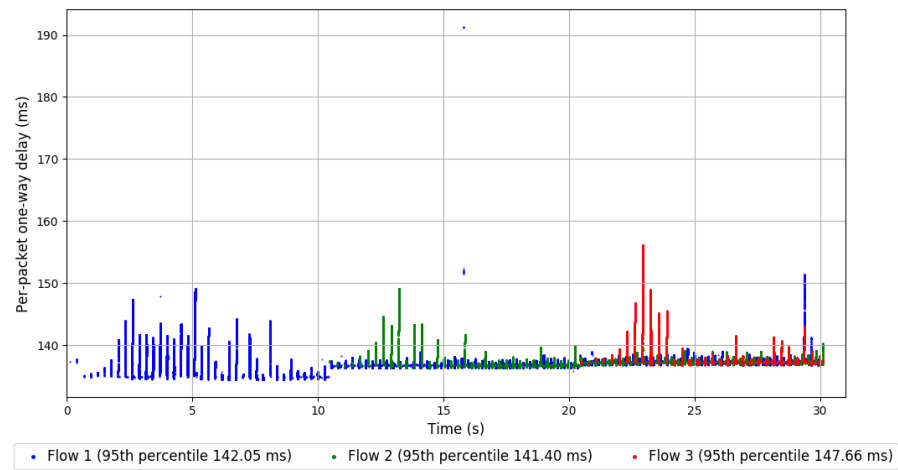
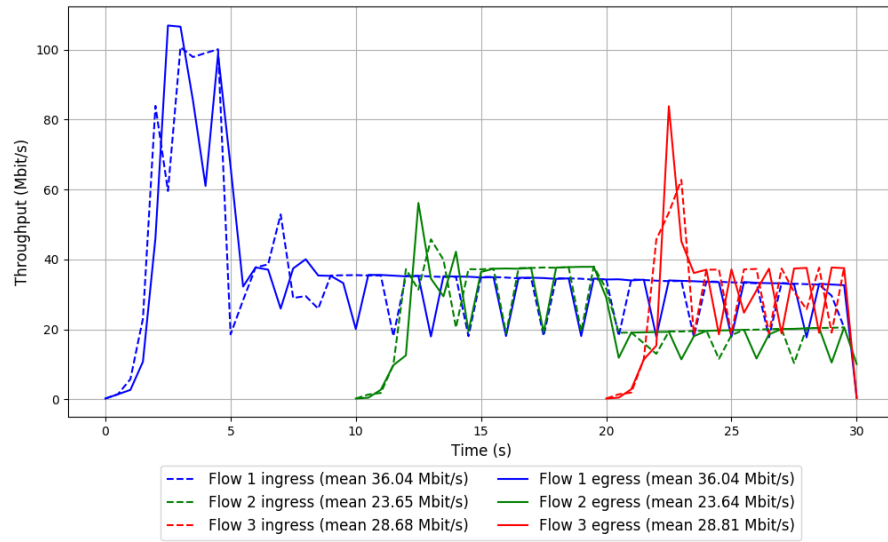
-- Flow 3:

Average throughput: 28.81 Mbit/s

95th percentile per-packet one-way delay: 147.664 ms

Loss rate: 0.00%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2017-12-01 13:11:23

End at: 2017-12-01 13:11:53

Below is generated by plot.py at 2017-12-01 14:38:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 37.44 Mbit/s

95th percentile per-packet one-way delay: 147.594 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 3.25 Mbit/s

95th percentile per-packet one-way delay: 137.971 ms

Loss rate: 0.20%

-- Flow 2:

Average throughput: 37.25 Mbit/s

95th percentile per-packet one-way delay: 147.139 ms

Loss rate: 0.03%

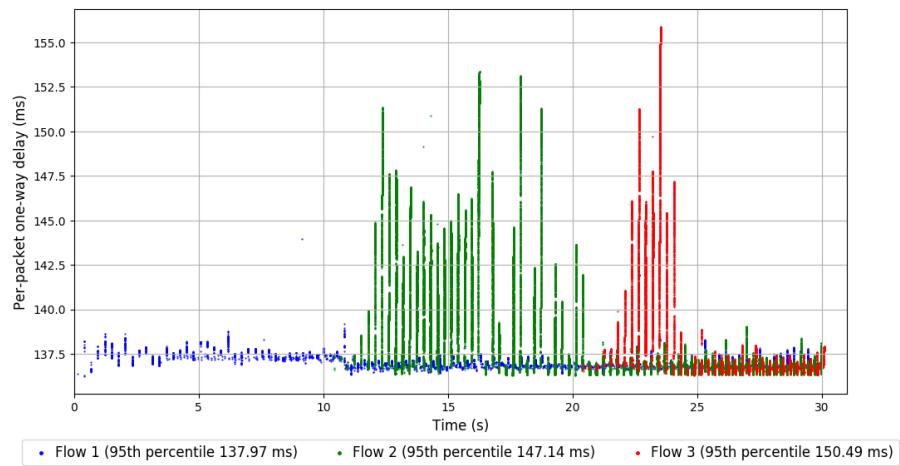
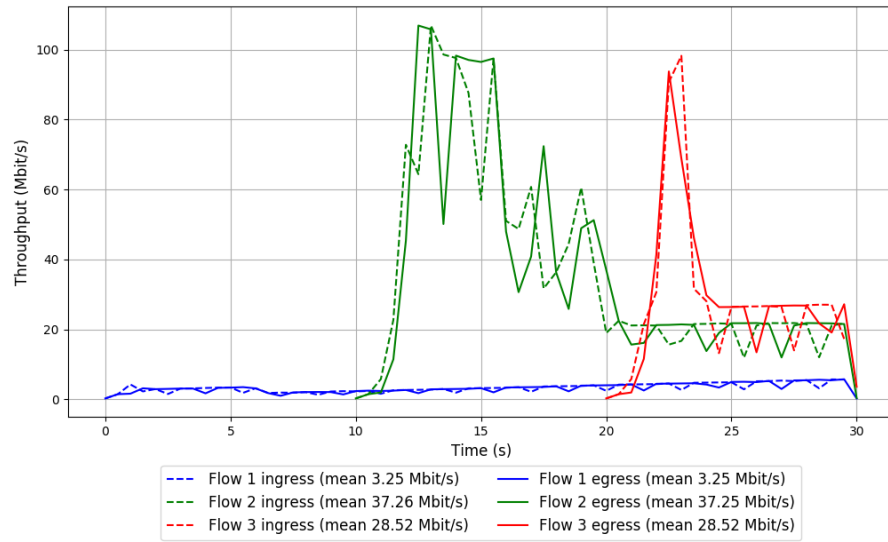
-- Flow 3:

Average throughput: 28.52 Mbit/s

95th percentile per-packet one-way delay: 150.486 ms

Loss rate: 0.00%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2017-12-01 13:24:53

End at: 2017-12-01 13:25:23

Below is generated by plot.py at 2017-12-01 14:38:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 29.24 Mbit/s

95th percentile per-packet one-way delay: 137.595 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 14.52 Mbit/s

95th percentile per-packet one-way delay: 137.461 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 15.83 Mbit/s

95th percentile per-packet one-way delay: 137.632 ms

Loss rate: 0.00%

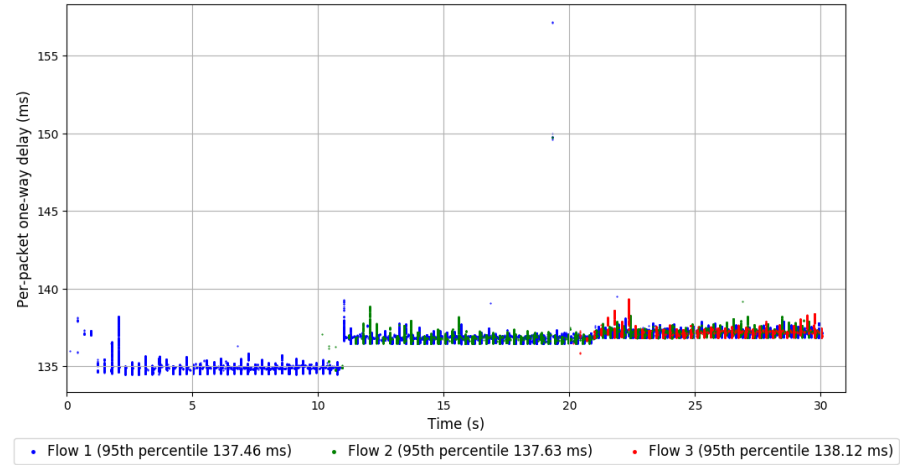
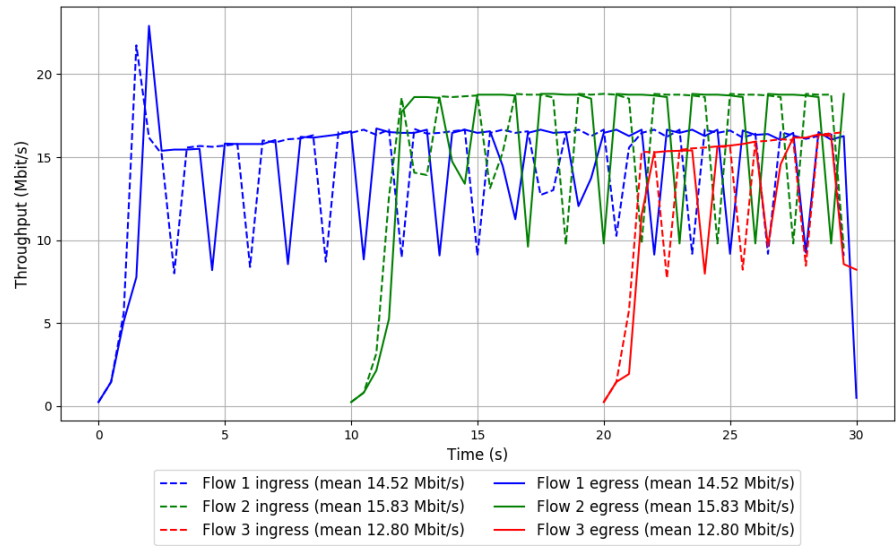
-- Flow 3:

Average throughput: 12.80 Mbit/s

95th percentile per-packet one-way delay: 138.124 ms

Loss rate: 0.00%

Run 10: Report of TCP Vegas — Data Link

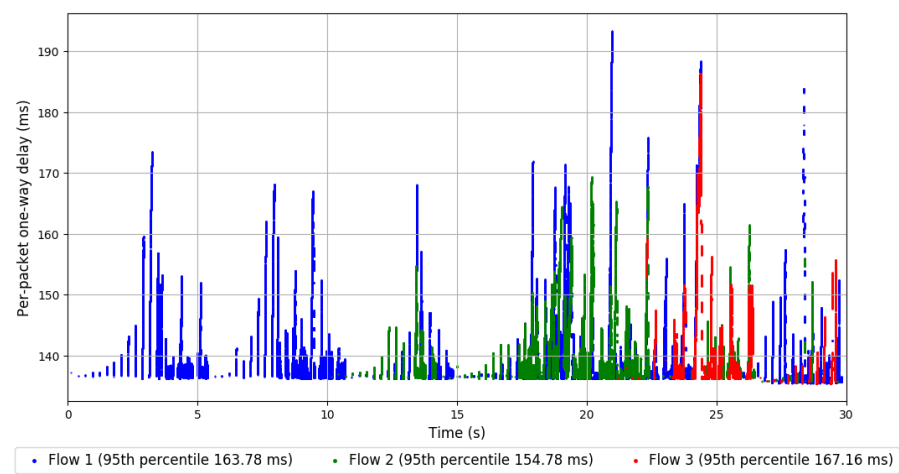
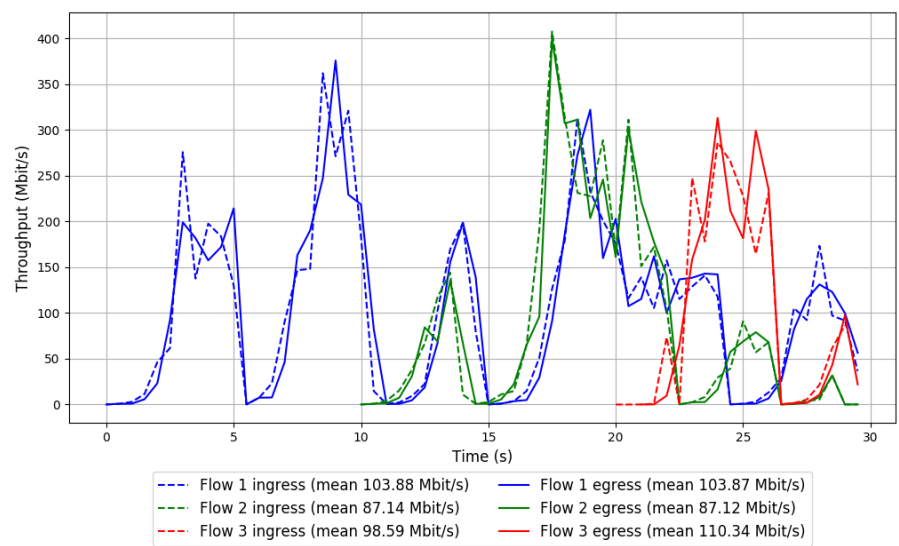


```
Run 1: Statistics of Verus

Start at: 2017-12-01 11:17:07
End at: 2017-12-01 11:17:37

# Below is generated by plot.py at 2017-12-01 14:38:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 192.31 Mbit/s
95th percentile per-packet one-way delay: 161.792 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 103.87 Mbit/s
95th percentile per-packet one-way delay: 163.784 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 87.12 Mbit/s
95th percentile per-packet one-way delay: 154.785 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 110.34 Mbit/s
95th percentile per-packet one-way delay: 167.162 ms
Loss rate: 0.00%
```


Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2017-12-01 11:31:03

End at: 2017-12-01 11:31:33

Below is generated by plot.py at 2017-12-01 14:38:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 157.08 Mbit/s

95th percentile per-packet one-way delay: 197.786 ms

Loss rate: 0.89%

-- Flow 1:

Average throughput: 80.86 Mbit/s

95th percentile per-packet one-way delay: 183.540 ms

Loss rate: 1.70%

-- Flow 2:

Average throughput: 44.79 Mbit/s

95th percentile per-packet one-way delay: 199.865 ms

Loss rate: 0.04%

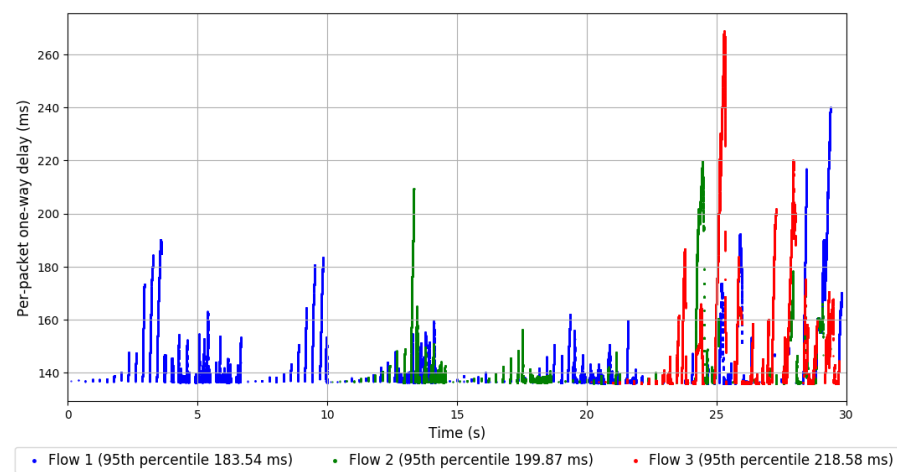
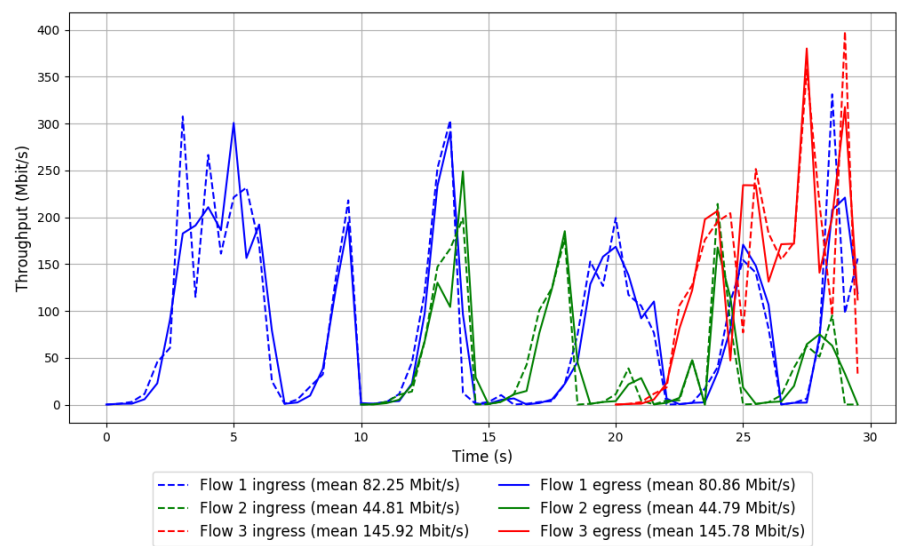
-- Flow 3:

Average throughput: 145.78 Mbit/s

95th percentile per-packet one-way delay: 218.579 ms

Loss rate: 0.01%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2017-12-01 11:44:36

End at: 2017-12-01 11:45:06

Below is generated by plot.py at 2017-12-01 14:38:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 108.99 Mbit/s

95th percentile per-packet one-way delay: 234.938 ms

Loss rate: 1.16%

-- Flow 1:

Average throughput: 39.27 Mbit/s

95th percentile per-packet one-way delay: 294.844 ms

Loss rate: 3.13%

-- Flow 2:

Average throughput: 85.82 Mbit/s

95th percentile per-packet one-way delay: 154.486 ms

Loss rate: 0.02%

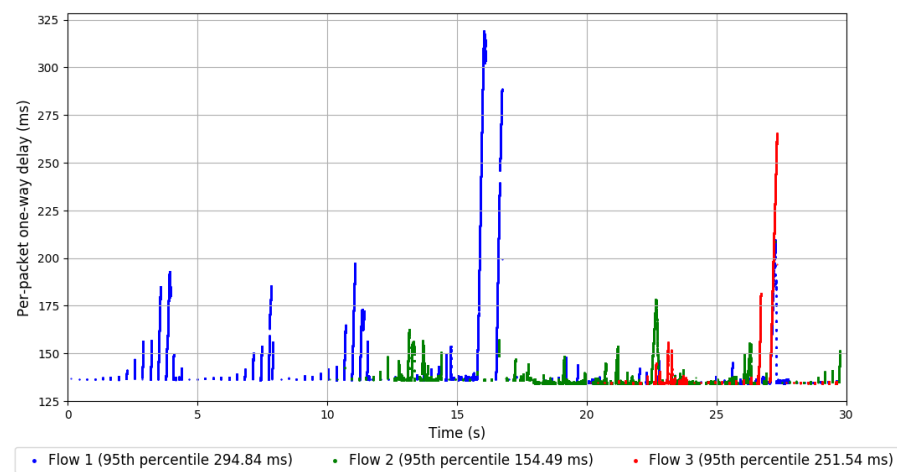
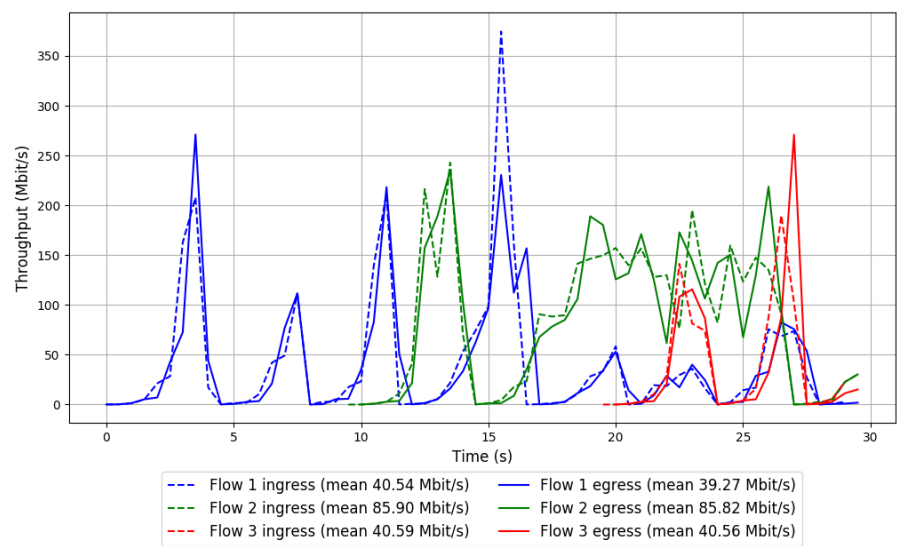
-- Flow 3:

Average throughput: 40.56 Mbit/s

95th percentile per-packet one-way delay: 251.545 ms

Loss rate: 0.07%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2017-12-01 11:58:35

End at: 2017-12-01 11:59:05

Below is generated by plot.py at 2017-12-01 14:38:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 320.05 Mbit/s

95th percentile per-packet one-way delay: 327.336 ms

Loss rate: 7.40%

-- Flow 1:

Average throughput: 249.01 Mbit/s

95th percentile per-packet one-way delay: 329.981 ms

Loss rate: 9.28%

-- Flow 2:

Average throughput: 34.78 Mbit/s

95th percentile per-packet one-way delay: 207.481 ms

Loss rate: 0.37%

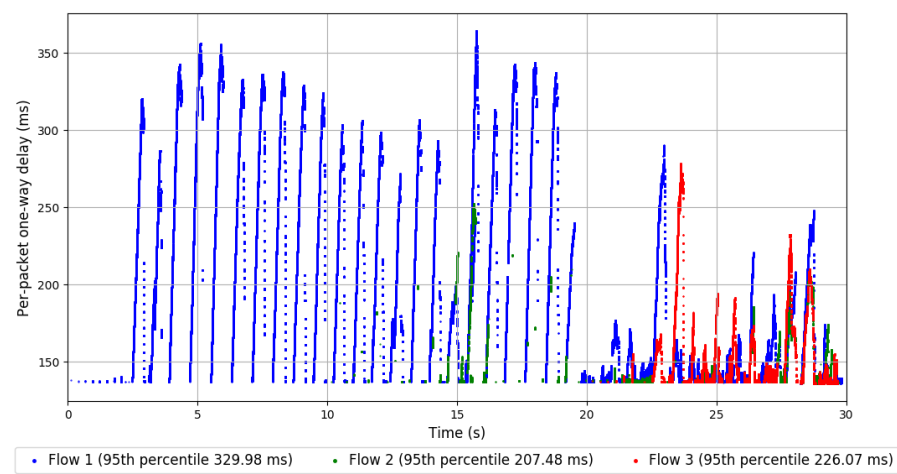
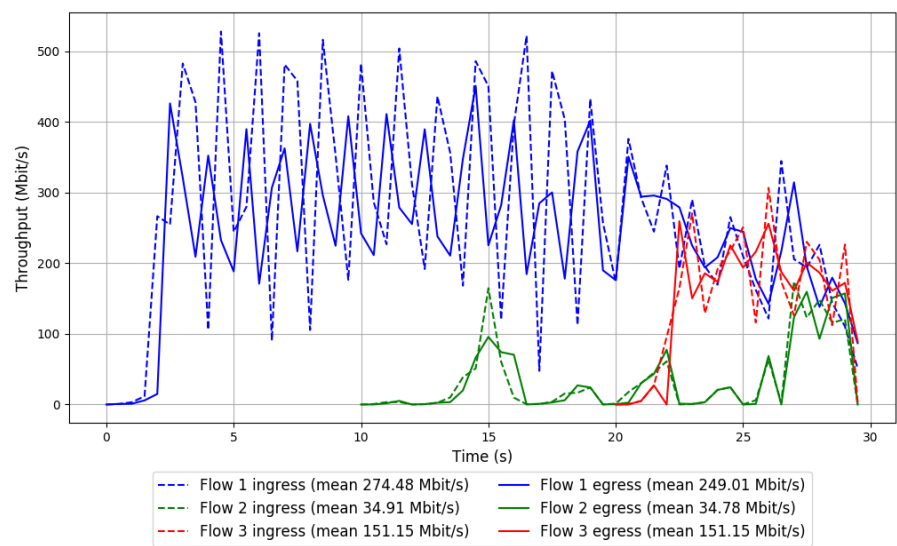
-- Flow 3:

Average throughput: 151.15 Mbit/s

95th percentile per-packet one-way delay: 226.069 ms

Loss rate: 0.01%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

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

End at: 2017-12-01 12:13:14

Below is generated by plot.py at 2017-12-01 14:38:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 184.28 Mbit/s

95th percentile per-packet one-way delay: 282.725 ms

Loss rate: 2.75%

-- Flow 1:

Average throughput: 126.84 Mbit/s

95th percentile per-packet one-way delay: 296.882 ms

Loss rate: 3.89%

-- Flow 2:

Average throughput: 73.37 Mbit/s

95th percentile per-packet one-way delay: 186.625 ms

Loss rate: 0.10%

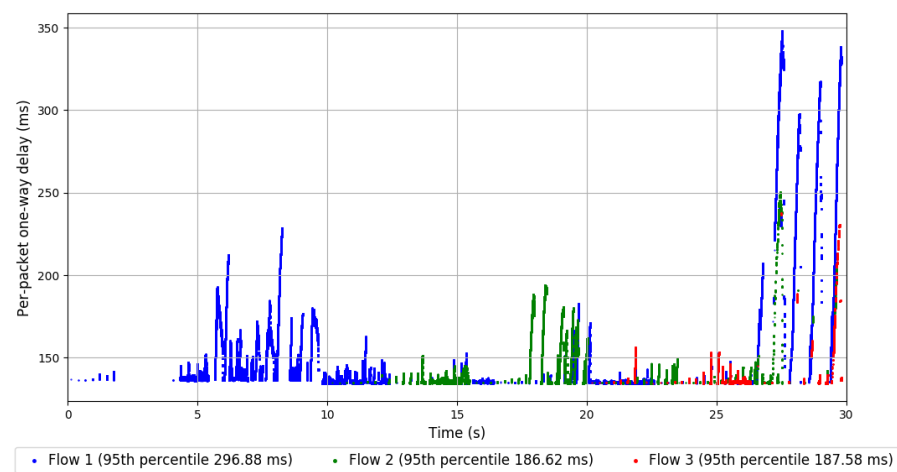
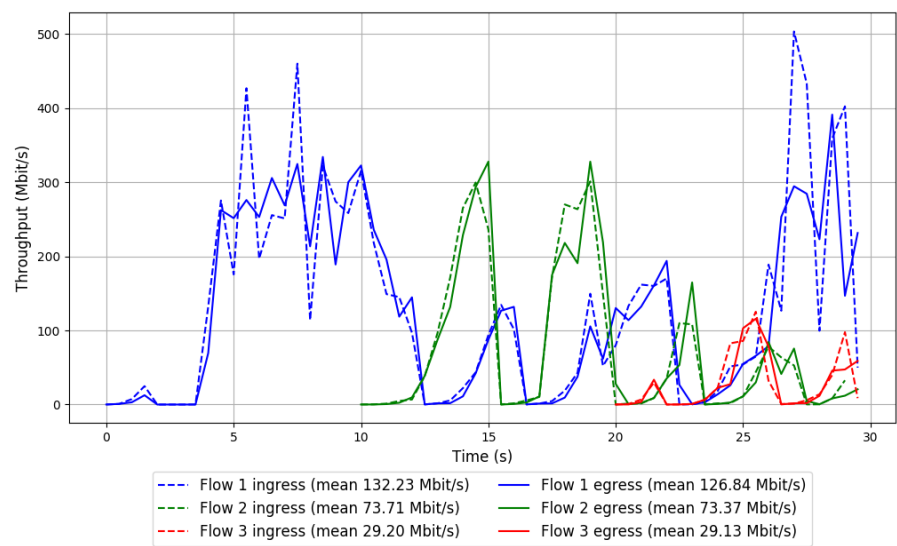
-- Flow 3:

Average throughput: 29.13 Mbit/s

95th percentile per-packet one-way delay: 187.576 ms

Loss rate: 0.21%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2017-12-01 12:26:43

End at: 2017-12-01 12:27:13

Below is generated by plot.py at 2017-12-01 14:38:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 132.50 Mbit/s

95th percentile per-packet one-way delay: 316.599 ms

Loss rate: 7.85%

-- Flow 1:

Average throughput: 72.13 Mbit/s

95th percentile per-packet one-way delay: 354.175 ms

Loss rate: 13.08%

-- Flow 2:

Average throughput: 58.72 Mbit/s

95th percentile per-packet one-way delay: 210.337 ms

Loss rate: 1.09%

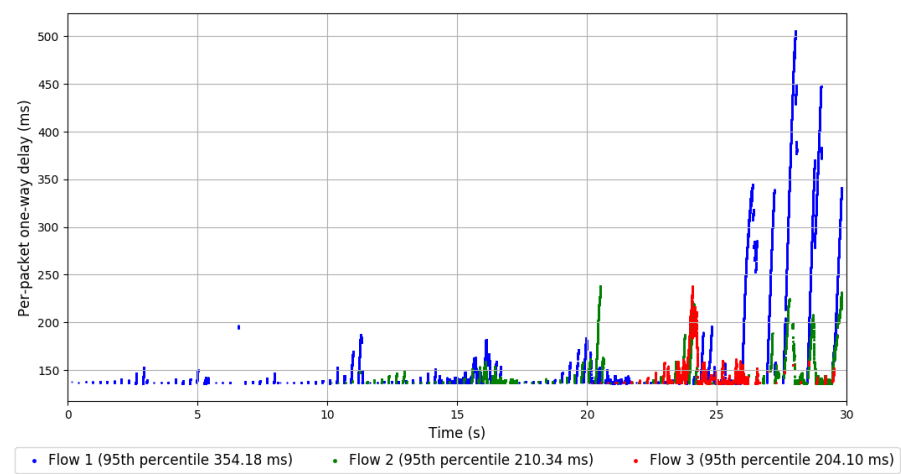
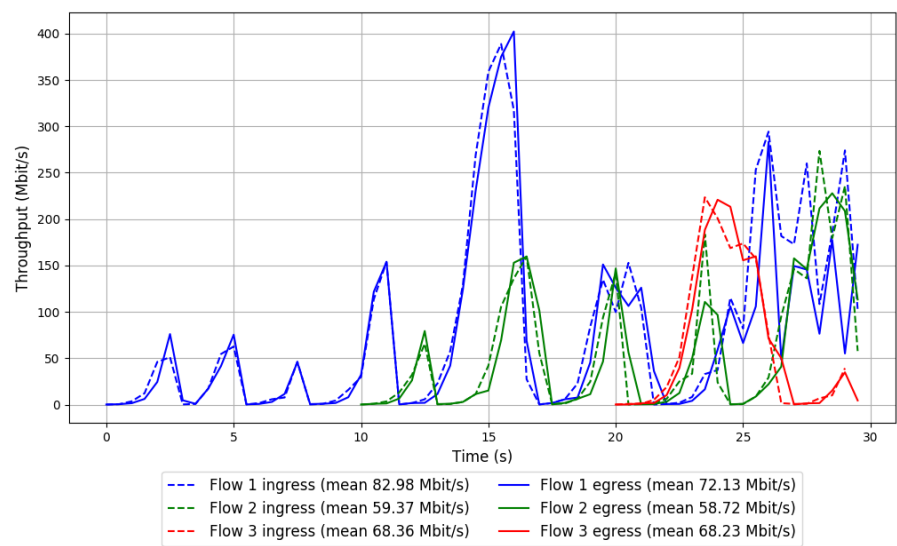
-- Flow 3:

Average throughput: 68.23 Mbit/s

95th percentile per-packet one-way delay: 204.104 ms

Loss rate: 0.04%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

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

End at: 2017-12-01 12:40:42

Below is generated by plot.py at 2017-12-01 14:38:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 168.29 Mbit/s

95th percentile per-packet one-way delay: 203.482 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 66.25 Mbit/s

95th percentile per-packet one-way delay: 208.596 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 139.35 Mbit/s

95th percentile per-packet one-way delay: 201.710 ms

Loss rate: 0.02%

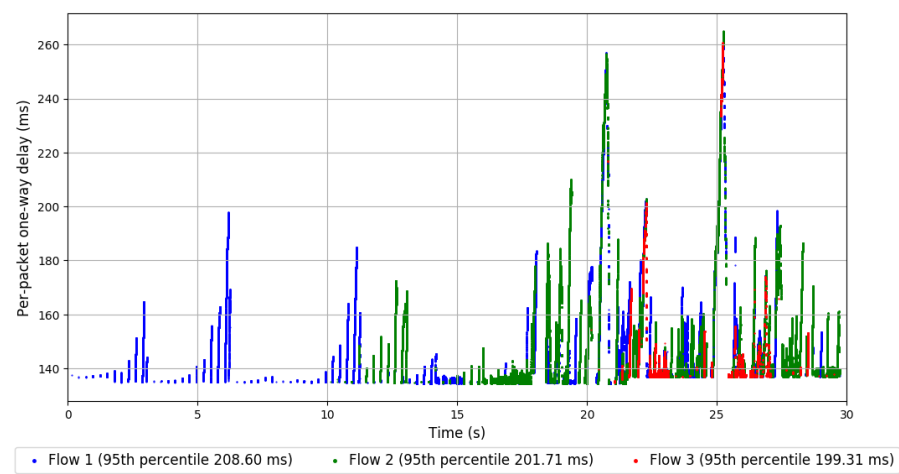
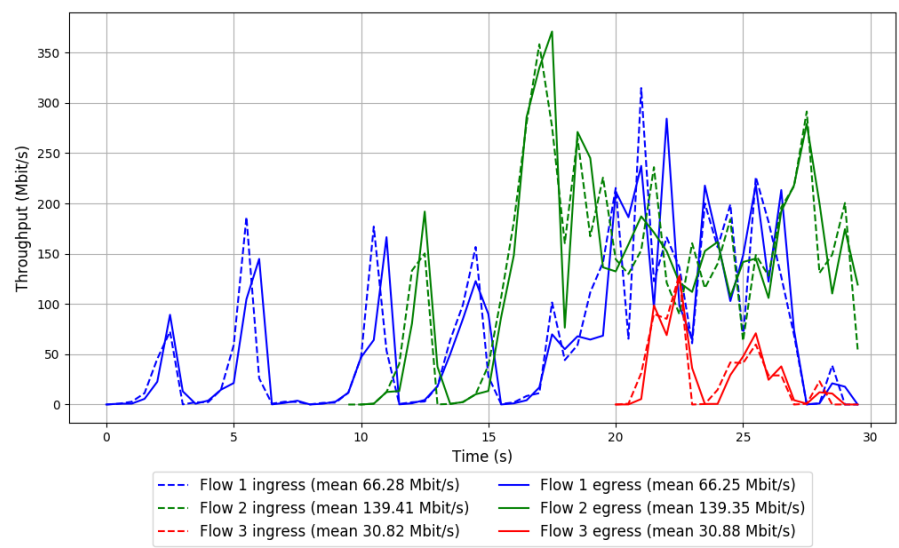
-- Flow 3:

Average throughput: 30.88 Mbit/s

95th percentile per-packet one-way delay: 199.310 ms

Loss rate: 0.00%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2017-12-01 12:54:07

End at: 2017-12-01 12:54:37

Below is generated by plot.py at 2017-12-01 14:39:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 262.52 Mbit/s

95th percentile per-packet one-way delay: 328.811 ms

Loss rate: 8.32%

-- Flow 1:

Average throughput: 182.58 Mbit/s

95th percentile per-packet one-way delay: 343.779 ms

Loss rate: 11.01%

-- Flow 2:

Average throughput: 102.54 Mbit/s

95th percentile per-packet one-way delay: 243.282 ms

Loss rate: 1.66%

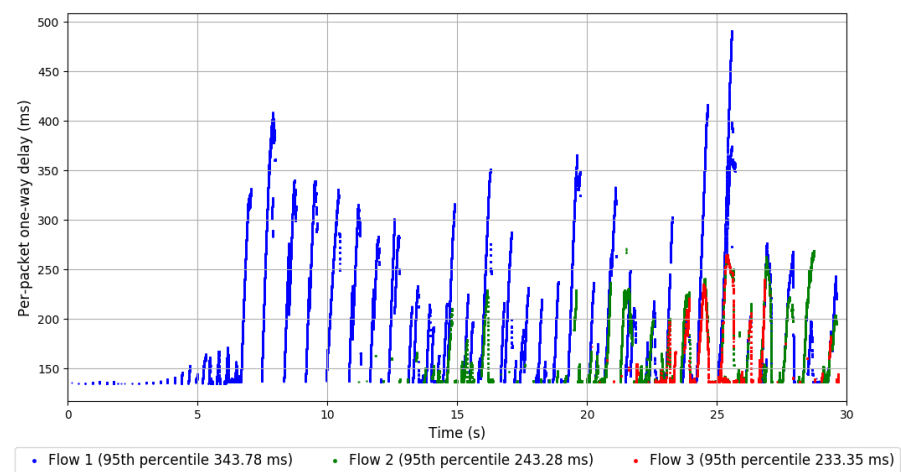
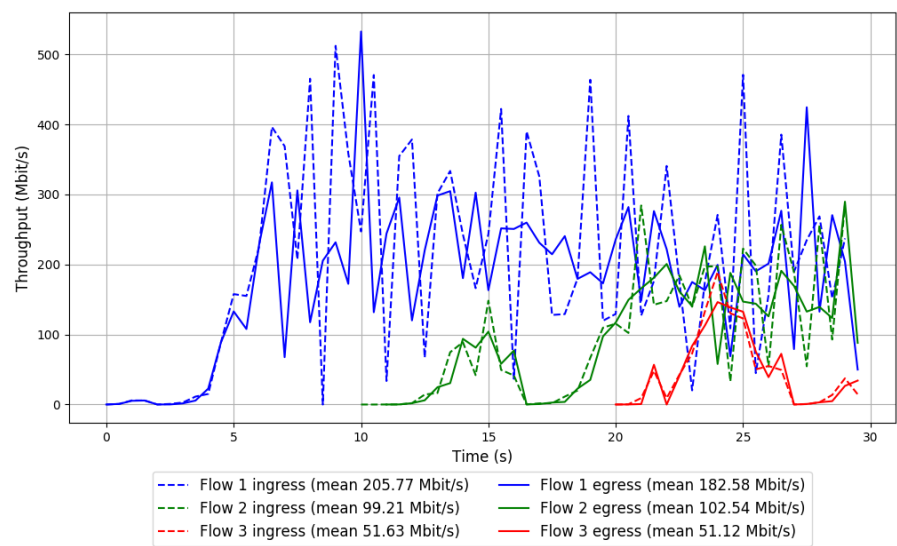
-- Flow 3:

Average throughput: 51.12 Mbit/s

95th percentile per-packet one-way delay: 233.355 ms

Loss rate: 1.29%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2017-12-01 13:08:30

End at: 2017-12-01 13:09:00

Below is generated by plot.py at 2017-12-01 14:39:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 198.99 Mbit/s

95th percentile per-packet one-way delay: 321.648 ms

Loss rate: 5.43%

-- Flow 1:

Average throughput: 127.62 Mbit/s

95th percentile per-packet one-way delay: 219.240 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 43.02 Mbit/s

95th percentile per-packet one-way delay: 174.375 ms

Loss rate: 0.04%

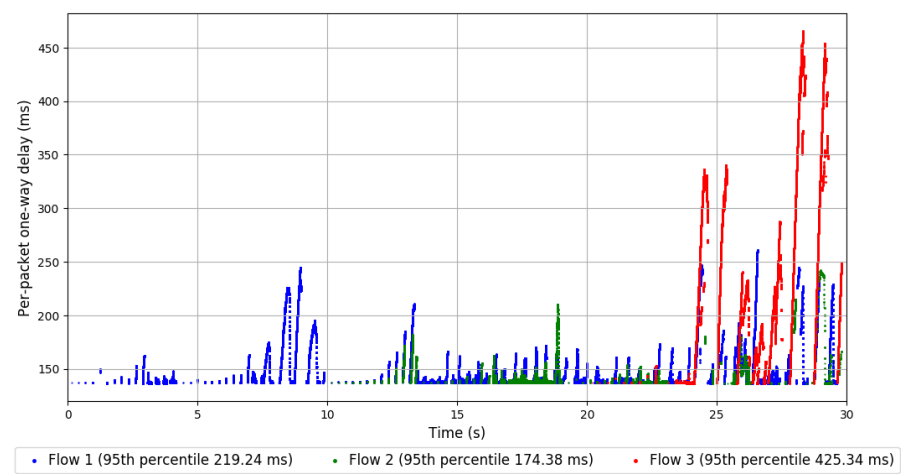
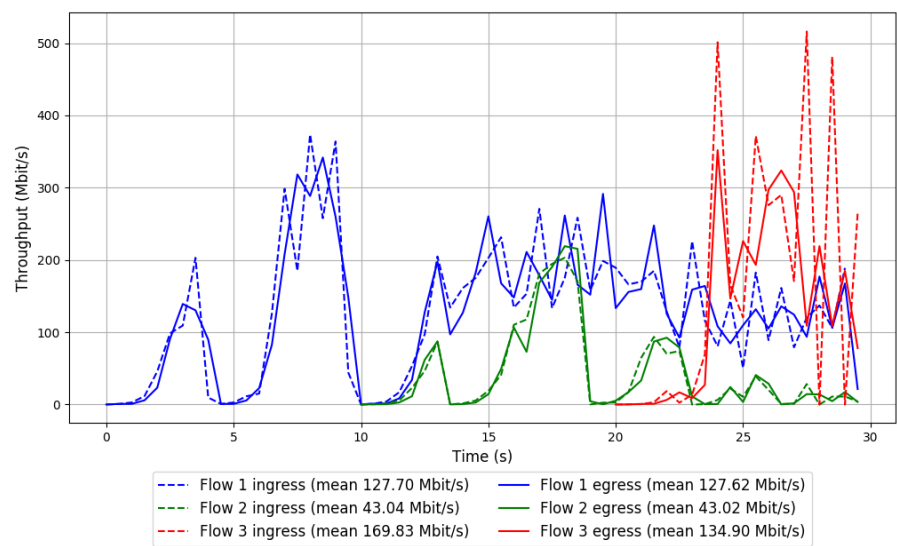
-- Flow 3:

Average throughput: 134.90 Mbit/s

95th percentile per-packet one-way delay: 425.342 ms

Loss rate: 20.57%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2017-12-01 13:22:05

End at: 2017-12-01 13:22:35

Below is generated by plot.py at 2017-12-01 14:39:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 187.13 Mbit/s

95th percentile per-packet one-way delay: 209.745 ms

Loss rate: 0.29%

-- Flow 1:

Average throughput: 148.46 Mbit/s

95th percentile per-packet one-way delay: 206.928 ms

Loss rate: 0.21%

-- Flow 2:

Average throughput: 50.96 Mbit/s

95th percentile per-packet one-way delay: 236.634 ms

Loss rate: 0.70%

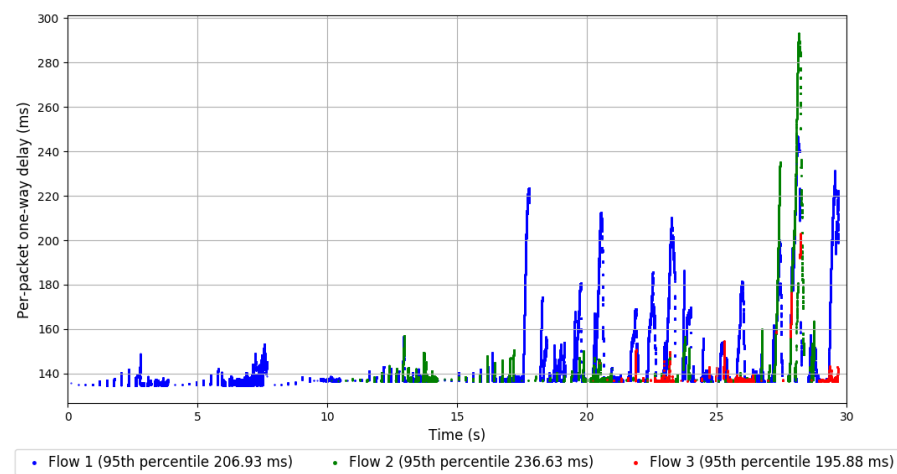
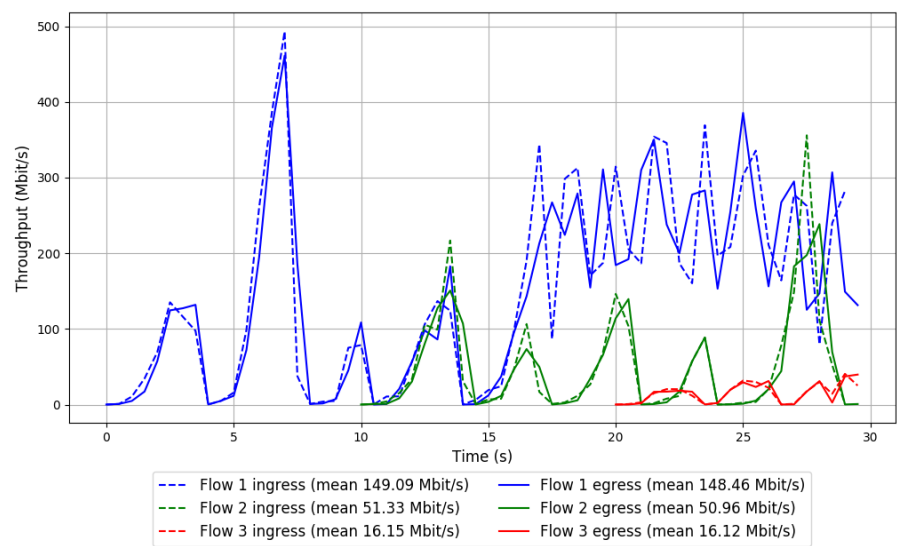
-- Flow 3:

Average throughput: 16.12 Mbit/s

95th percentile per-packet one-way delay: 195.883 ms

Loss rate: 0.14%

Run 10: Report of Verus — Data Link

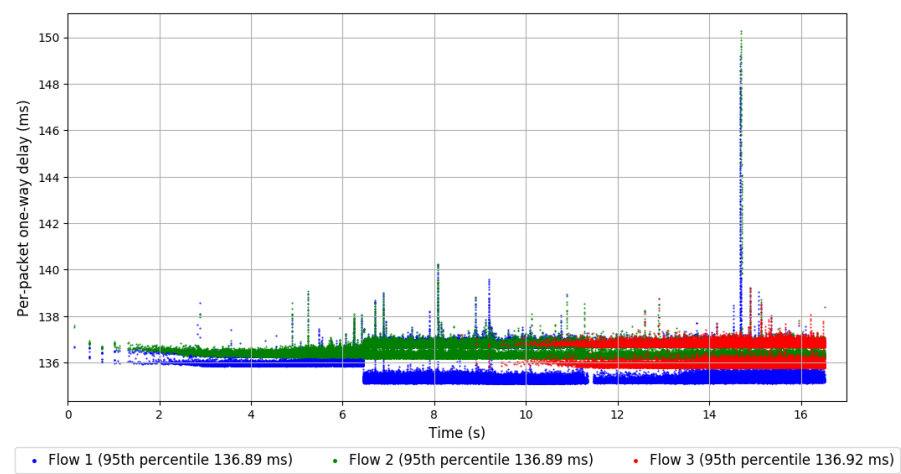
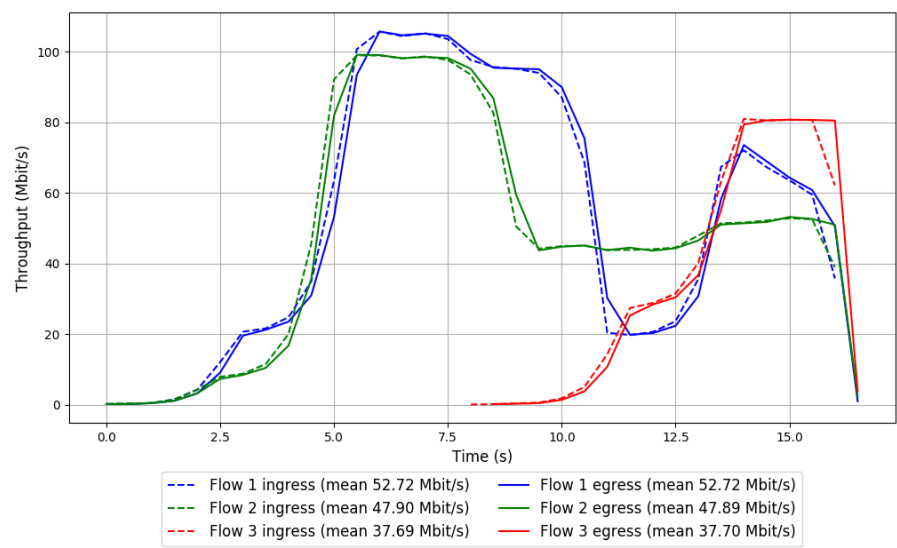


Run 1: Statistics of Copa

Start at: 2017-12-01 11:18:14

End at: 2017-12-01 11:18:44

Run 1: Report of Copa — Data Link

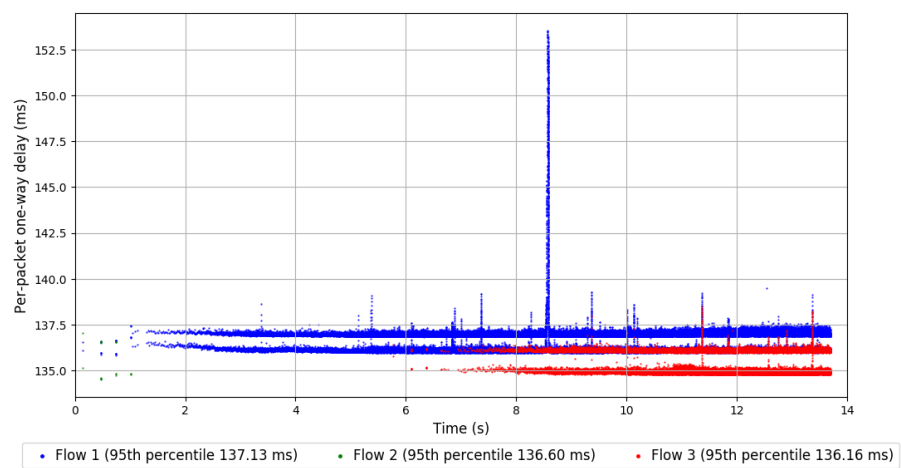
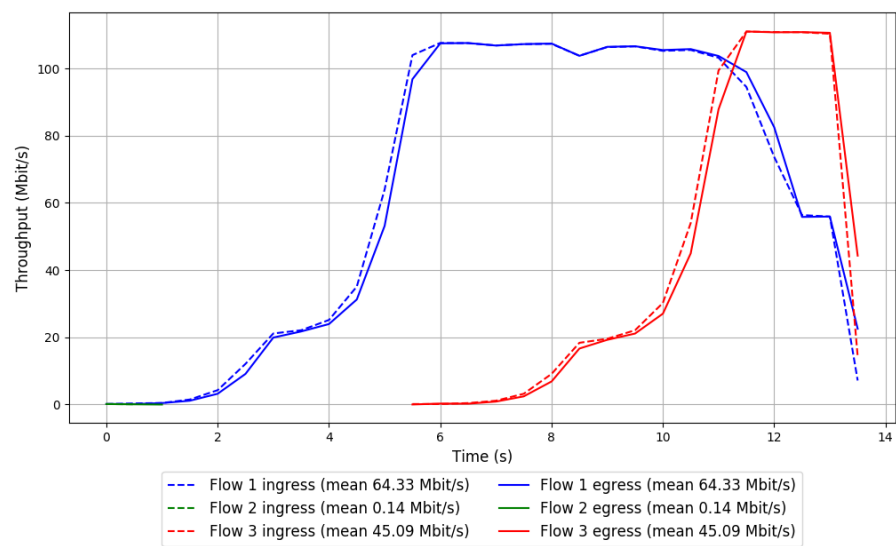


Run 2: Statistics of Copa

Start at: 2017-12-01 11:32:07

End at: 2017-12-01 11:32:37

Run 2: Report of Copa — Data Link

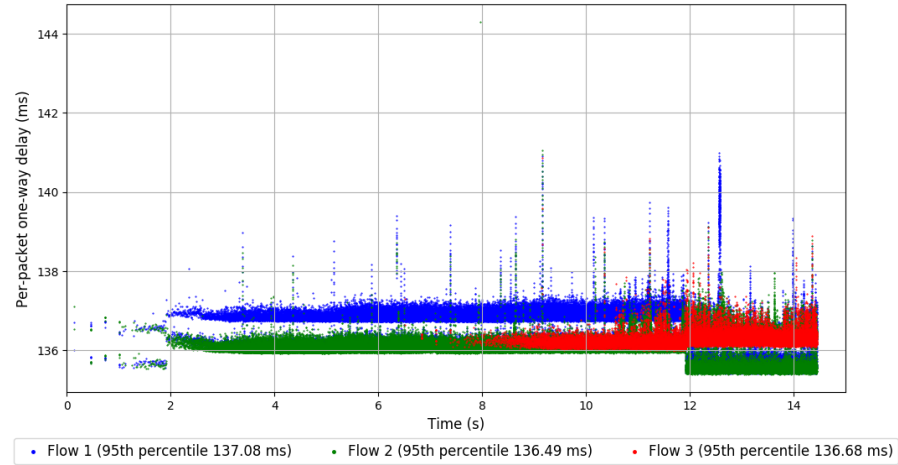
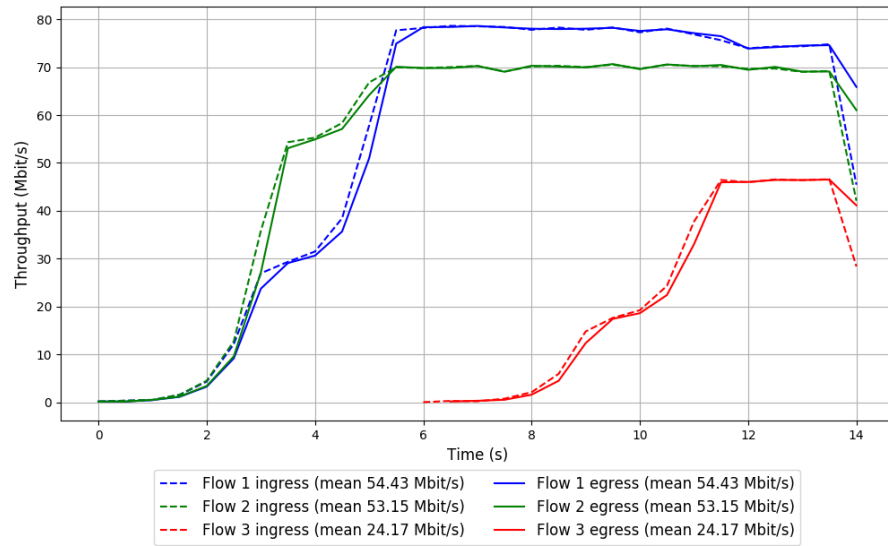


Run 3: Statistics of Copa

Start at: 2017-12-01 11:45:36

End at: 2017-12-01 11:46:06

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2017-12-01 11:59:55

End at: 2017-12-01 12:00:25

Below is generated by plot.py at 2017-12-01 14:41:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 107.79 Mbit/s

95th percentile per-packet one-way delay: 136.949 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 60.83 Mbit/s

95th percentile per-packet one-way delay: 136.905 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 49.51 Mbit/s

95th percentile per-packet one-way delay: 136.859 ms

Loss rate: 0.00%

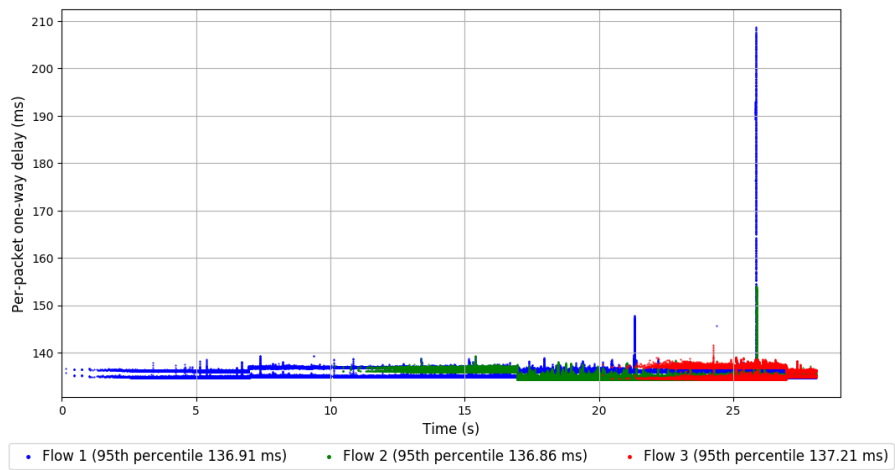
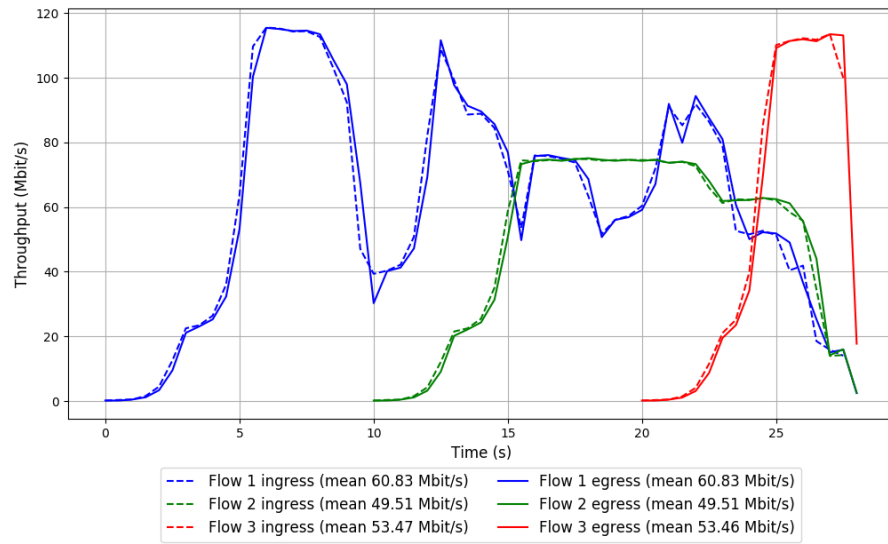
-- Flow 3:

Average throughput: 53.46 Mbit/s

95th percentile per-packet one-way delay: 137.207 ms

Loss rate: 0.00%

Run 4: Report of Copa — Data Link

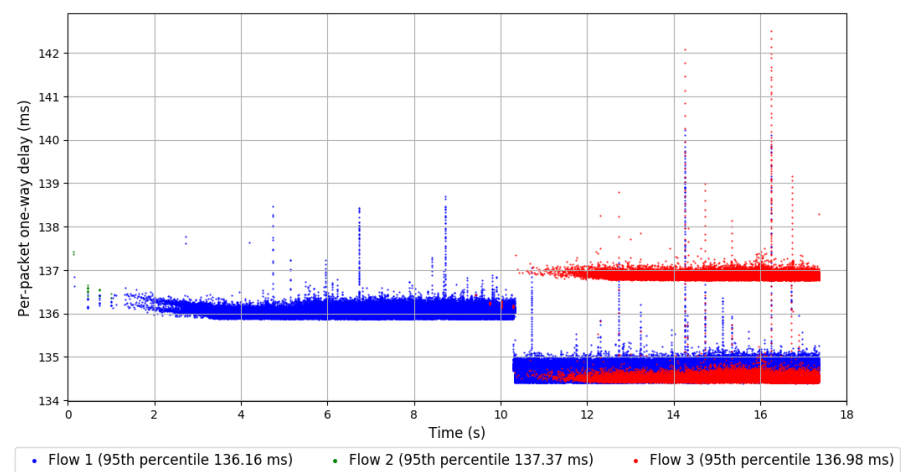
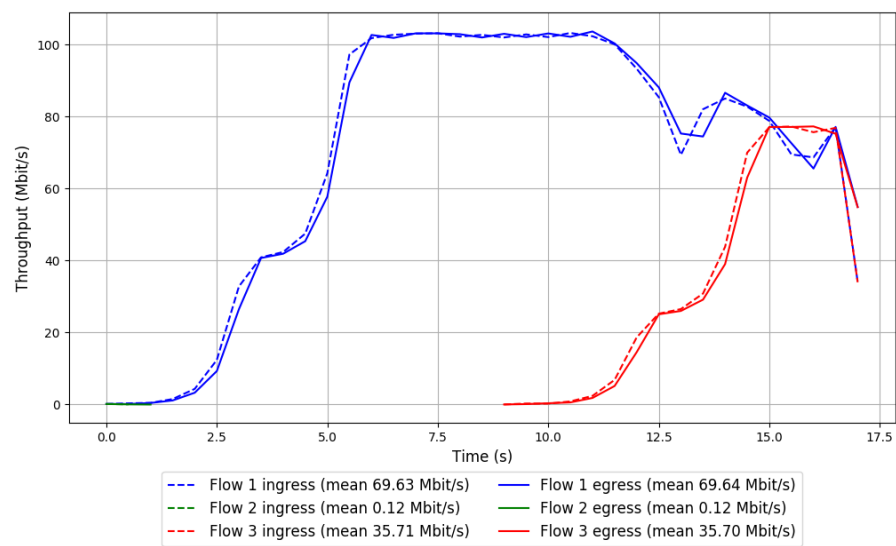


Run 5: Statistics of Copa

Start at: 2017-12-01 12:13:51

End at: 2017-12-01 12:14:21

Run 5: Report of Copa — Data Link

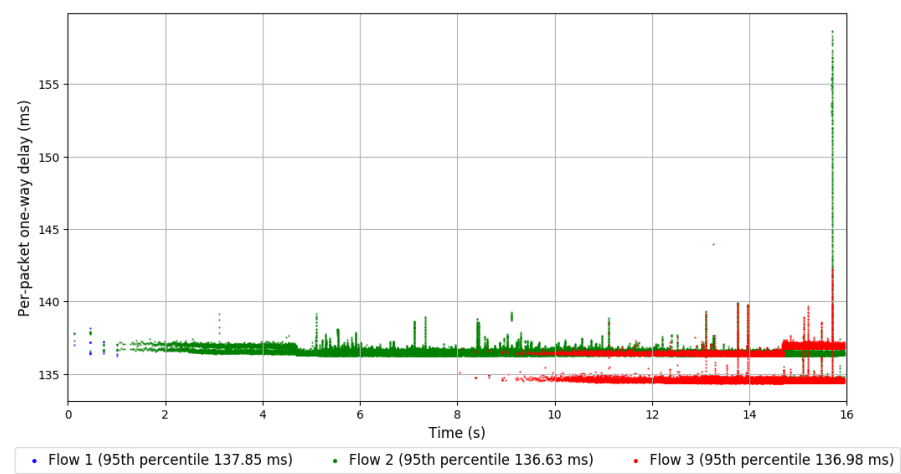
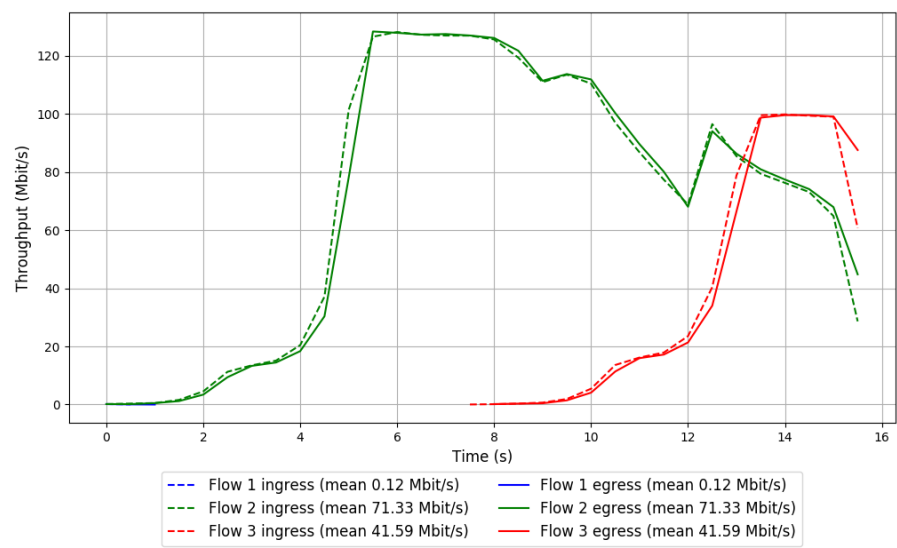


Run 6: Statistics of Copa

Start at: 2017-12-01 12:27:45

End at: 2017-12-01 12:28:15

Run 6: Report of Copa — Data Link

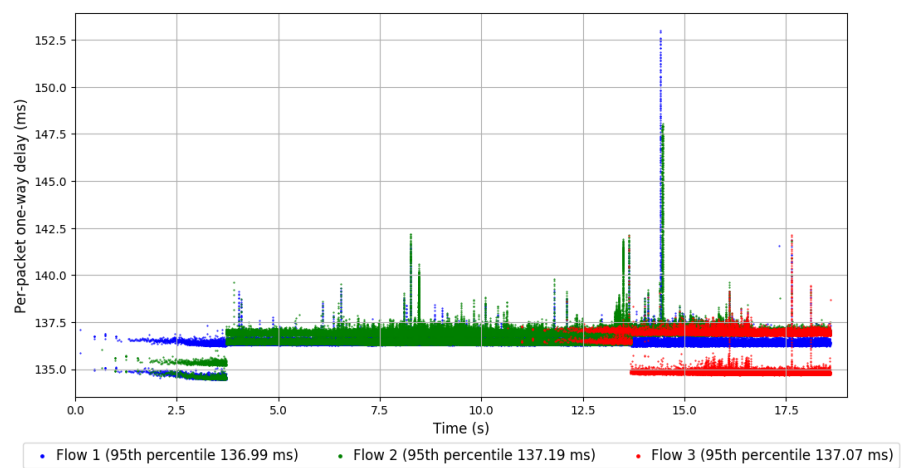
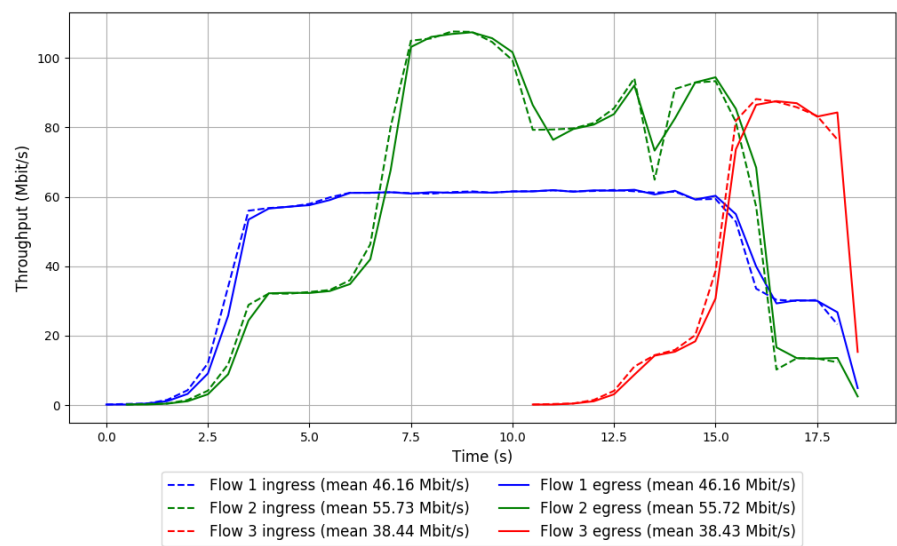


Run 7: Statistics of Copa

Start at: 2017-12-01 12:41:19

End at: 2017-12-01 12:41:49

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2017-12-01 12:55:21

End at: 2017-12-01 12:55:51

Below is generated by plot.py at 2017-12-01 14:41:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 112.16 Mbit/s

95th percentile per-packet one-way delay: 137.079 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 56.73 Mbit/s

95th percentile per-packet one-way delay: 136.984 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 60.93 Mbit/s

95th percentile per-packet one-way delay: 137.123 ms

Loss rate: 0.00%

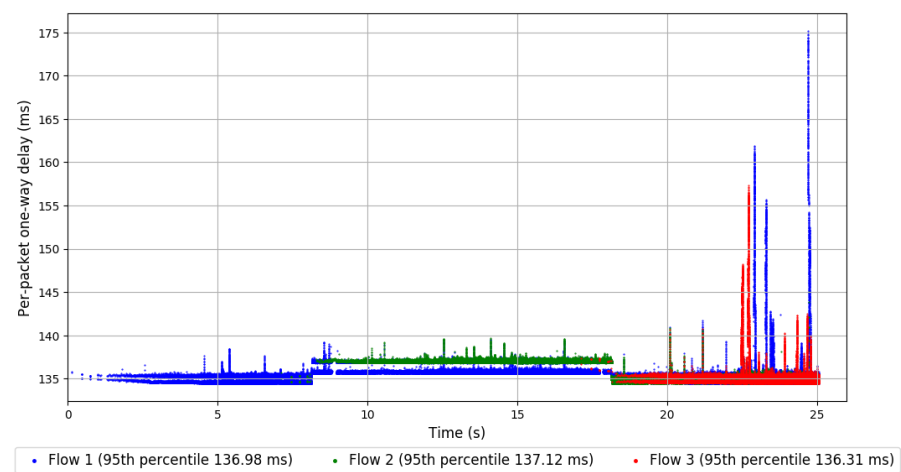
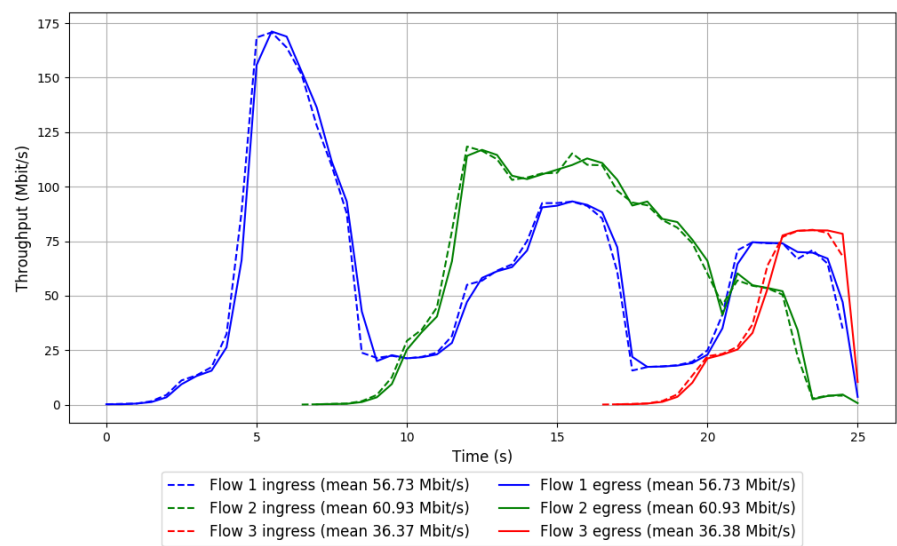
-- Flow 3:

Average throughput: 36.38 Mbit/s

95th percentile per-packet one-way delay: 136.312 ms

Loss rate: 0.00%

Run 8: Report of Copa — Data Link

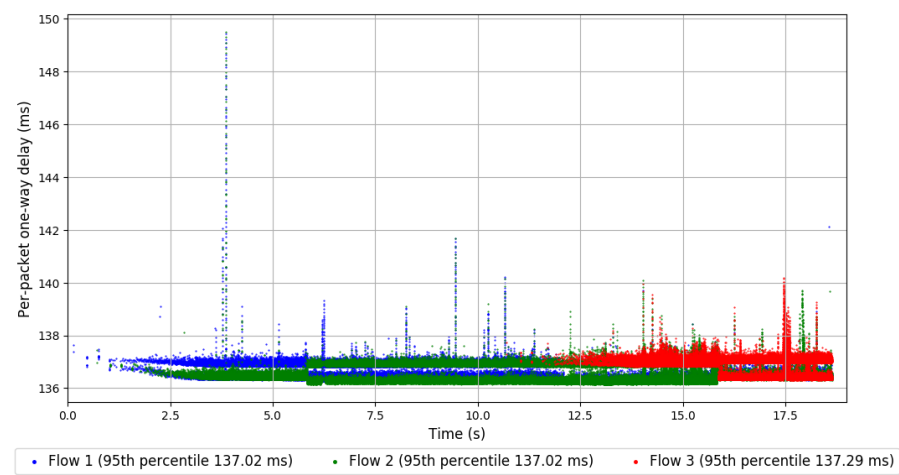
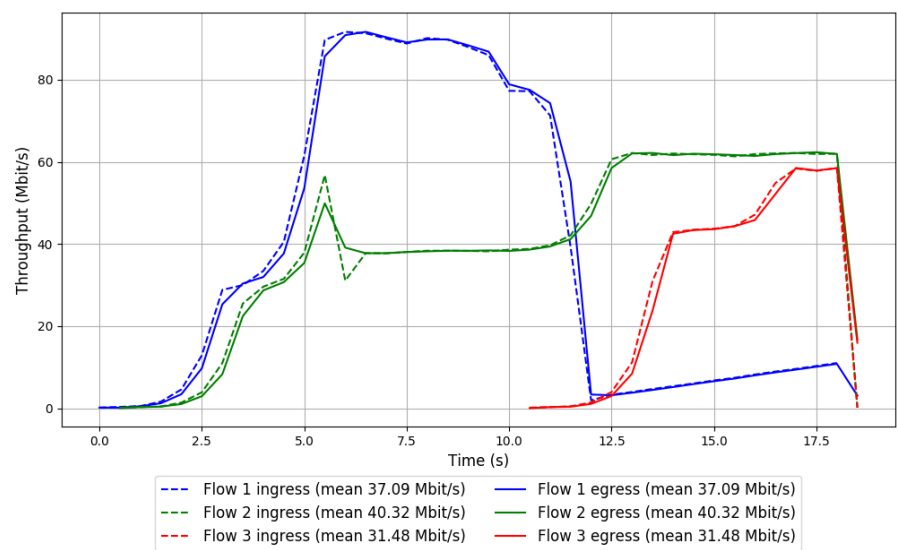


Run 9: Statistics of Copa

Start at: 2017-12-01 13:09:37

End at: 2017-12-01 13:10:07

Run 9: Report of Copa — Data Link

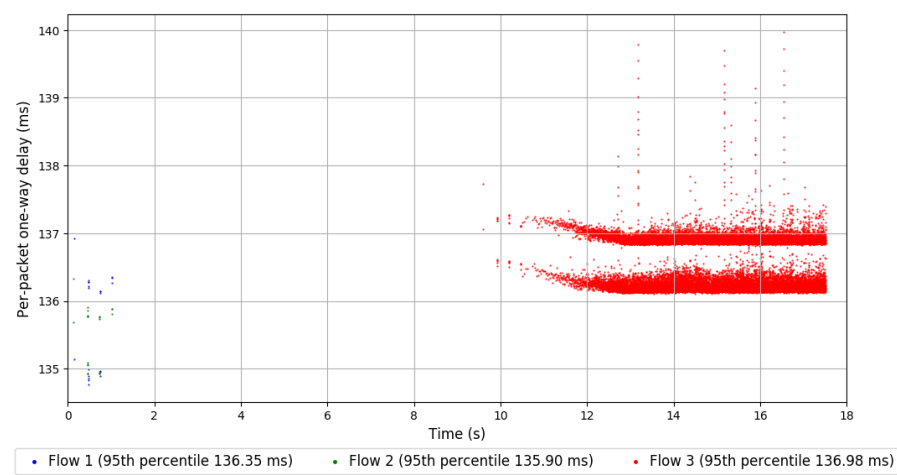
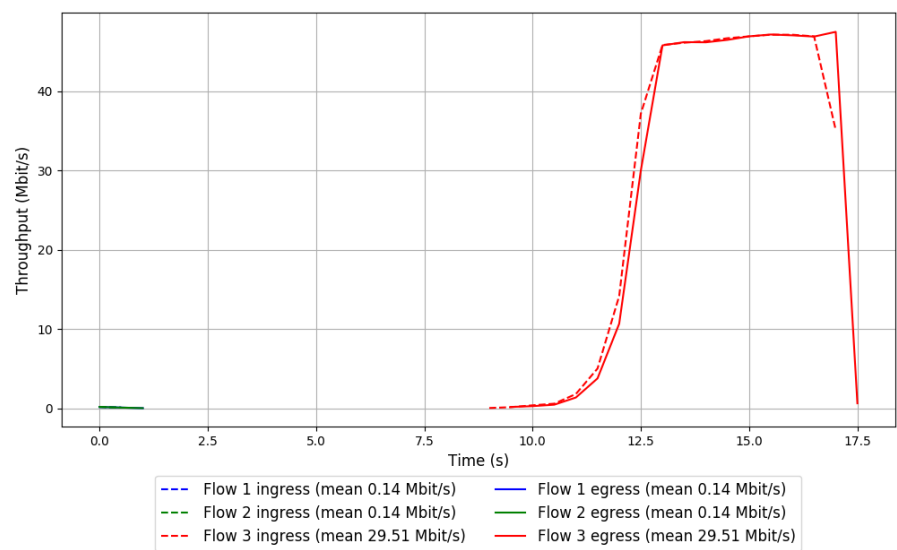


Run 10: Statistics of Copa

Start at: 2017-12-01 13:23:13

End at: 2017-12-01 13:23:43

Run 10: Report of Copa — Data Link

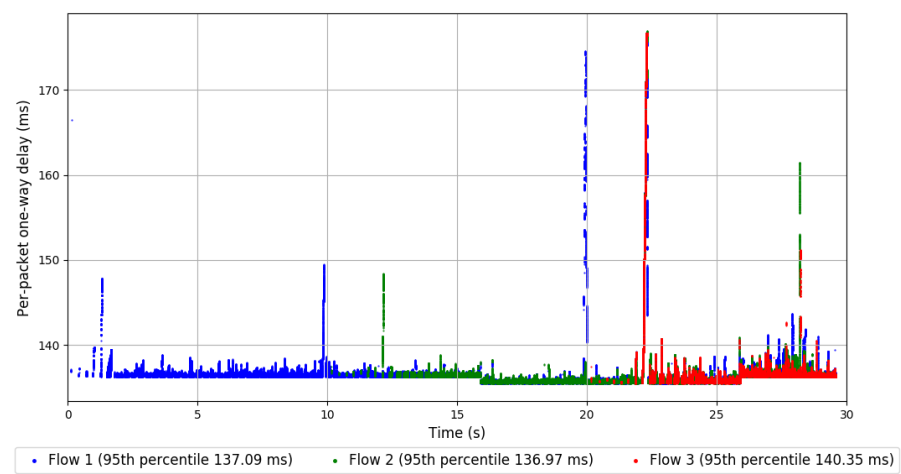
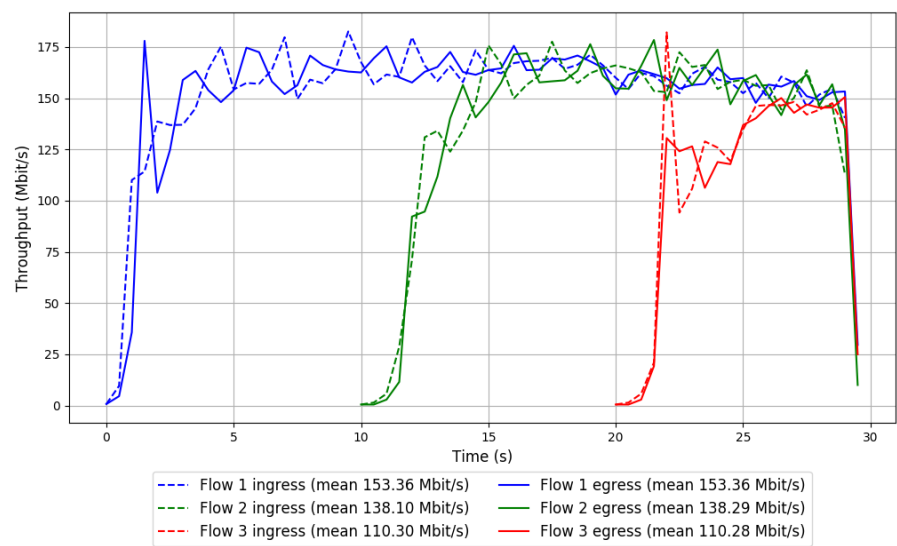


```
Run 1: Statistics of Indigo

Start at: 2017-12-01 11:14:07
End at: 2017-12-01 11:14:37

# Below is generated by plot.py at 2017-12-01 14:44:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 279.71 Mbit/s
95th percentile per-packet one-way delay: 137.208 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 153.36 Mbit/s
95th percentile per-packet one-way delay: 137.093 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 138.29 Mbit/s
95th percentile per-packet one-way delay: 136.971 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 110.28 Mbit/s
95th percentile per-packet one-way delay: 140.354 ms
Loss rate: 0.01%
```


Run 1: Report of Indigo — Data Link

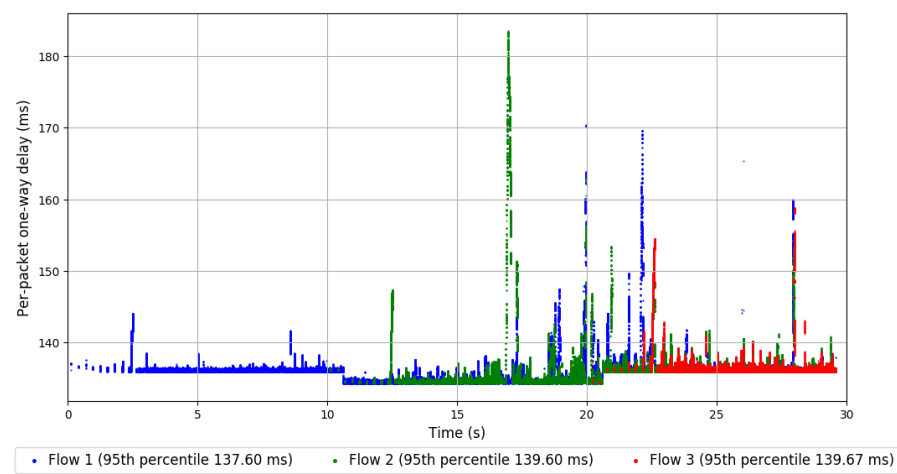
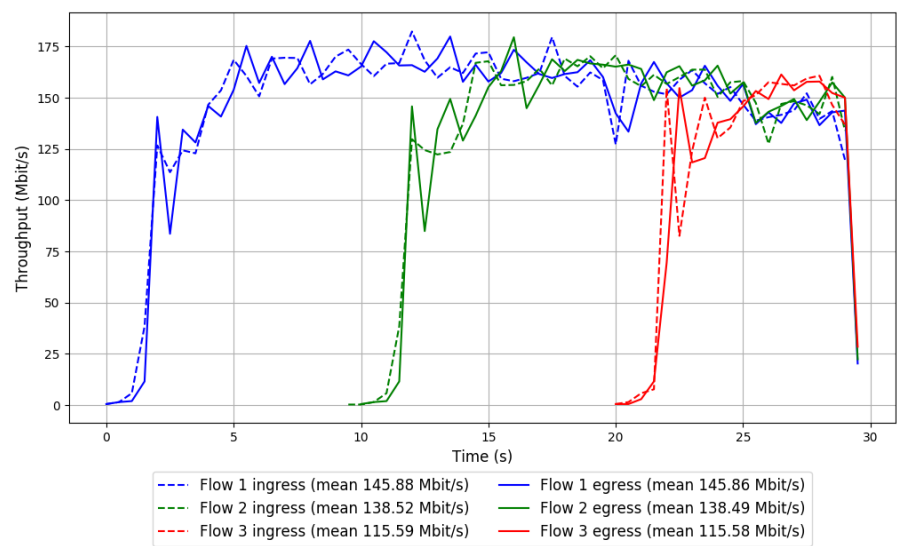


```
Run 2: Statistics of Indigo

Start at: 2017-12-01 11:28:03
End at: 2017-12-01 11:28:33

# Below is generated by plot.py at 2017-12-01 14:44:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 274.13 Mbit/s
95th percentile per-packet one-way delay: 138.377 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 145.86 Mbit/s
95th percentile per-packet one-way delay: 137.605 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 138.49 Mbit/s
95th percentile per-packet one-way delay: 139.598 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 115.58 Mbit/s
95th percentile per-packet one-way delay: 139.674 ms
Loss rate: 0.00%
```

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2017-12-01 11:41:32

End at: 2017-12-01 11:42:02

Below is generated by plot.py at 2017-12-01 14:44:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 269.41 Mbit/s

95th percentile per-packet one-way delay: 137.249 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 147.14 Mbit/s

95th percentile per-packet one-way delay: 136.789 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 141.02 Mbit/s

95th percentile per-packet one-way delay: 137.400 ms

Loss rate: 0.00%

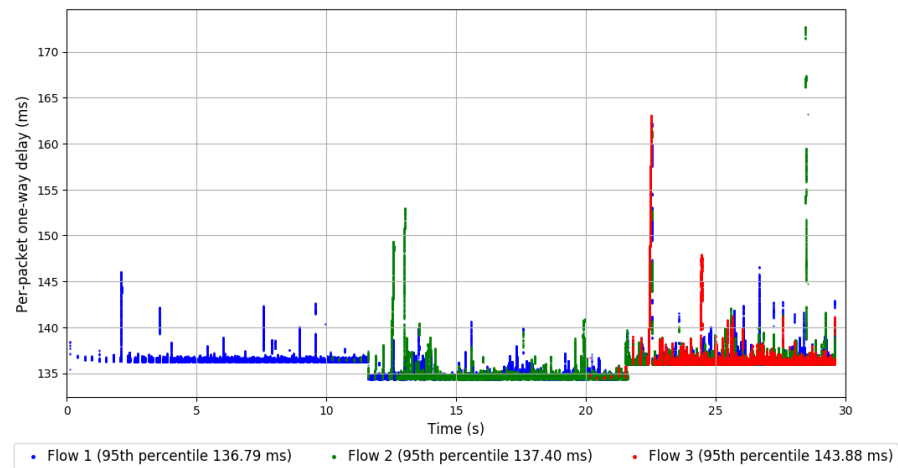
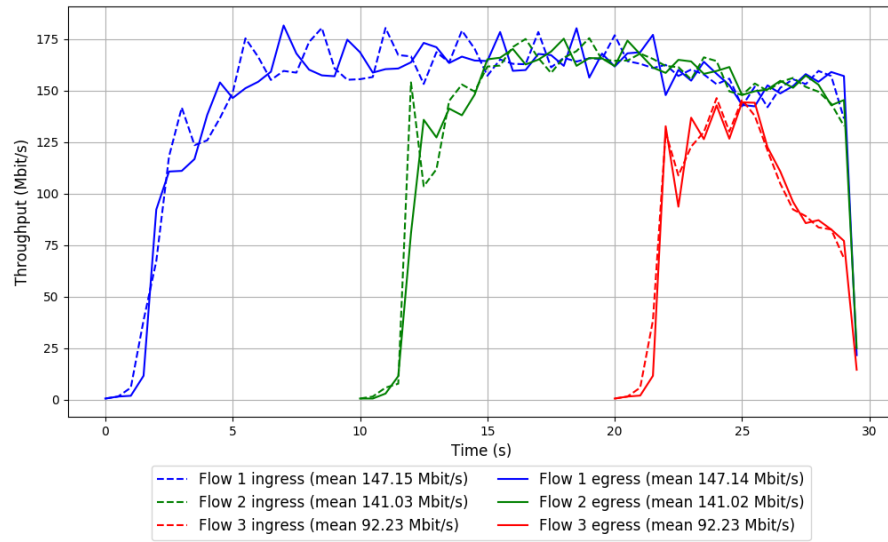
-- Flow 3:

Average throughput: 92.23 Mbit/s

95th percentile per-packet one-way delay: 143.879 ms

Loss rate: 0.00%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2017-12-01 11:55:38

End at: 2017-12-01 11:56:08

Below is generated by plot.py at 2017-12-01 14:44:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 239.63 Mbit/s

95th percentile per-packet one-way delay: 136.752 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 142.69 Mbit/s

95th percentile per-packet one-way delay: 136.710 ms

Loss rate: 0.11%

-- Flow 2:

Average throughput: 94.15 Mbit/s

95th percentile per-packet one-way delay: 136.831 ms

Loss rate: 0.00%

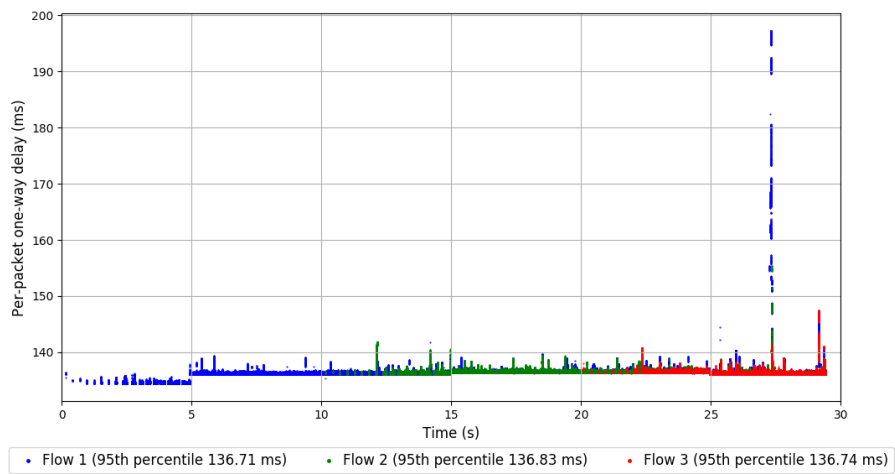
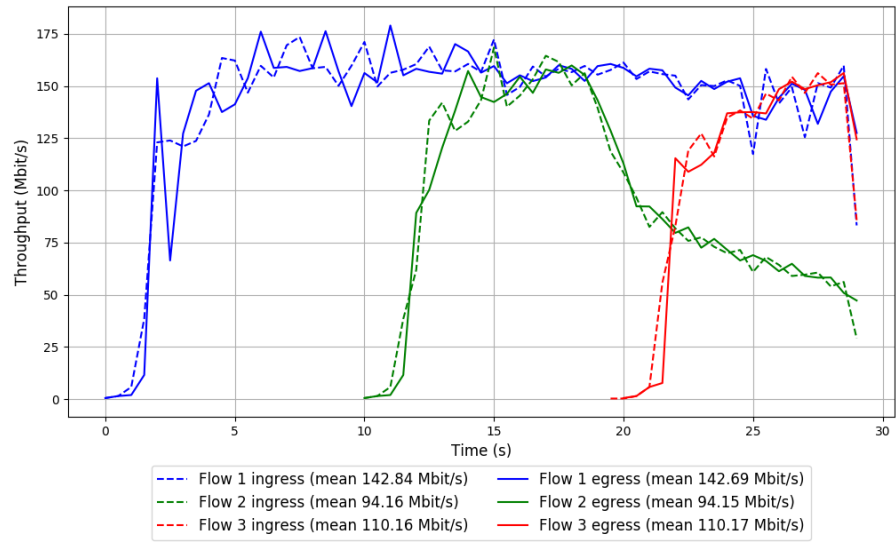
-- Flow 3:

Average throughput: 110.17 Mbit/s

95th percentile per-packet one-way delay: 136.740 ms

Loss rate: 0.01%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

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

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

Below is generated by plot.py at 2017-12-01 14:45:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 264.36 Mbit/s

95th percentile per-packet one-way delay: 138.334 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 145.72 Mbit/s

95th percentile per-packet one-way delay: 137.521 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 127.51 Mbit/s

95th percentile per-packet one-way delay: 140.419 ms

Loss rate: 0.01%

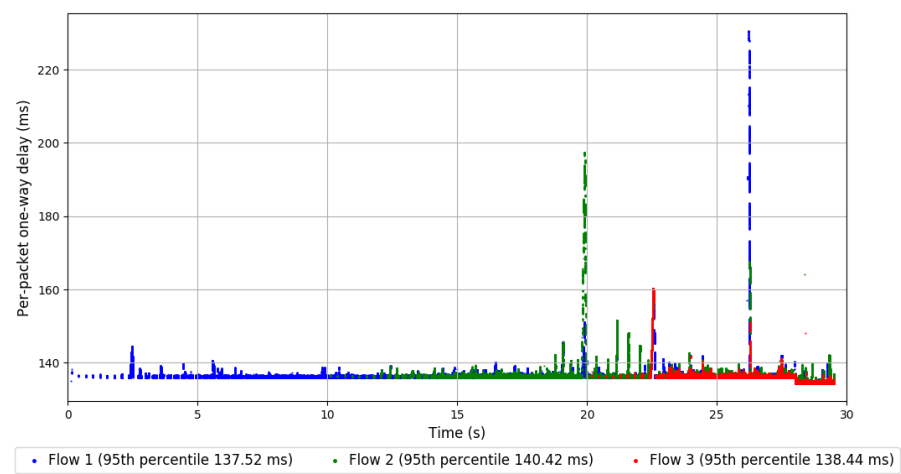
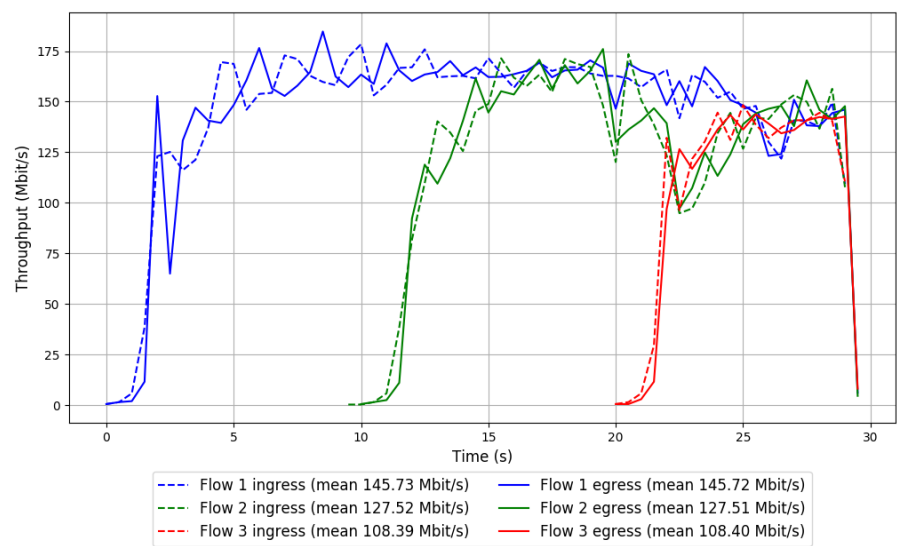
-- Flow 3:

Average throughput: 108.40 Mbit/s

95th percentile per-packet one-way delay: 138.443 ms

Loss rate: 0.01%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2017-12-01 12:23:42

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

Below is generated by plot.py at 2017-12-01 14:45:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 271.14 Mbit/s

95th percentile per-packet one-way delay: 138.452 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 146.58 Mbit/s

95th percentile per-packet one-way delay: 138.145 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 135.47 Mbit/s

95th percentile per-packet one-way delay: 139.243 ms

Loss rate: 0.00%

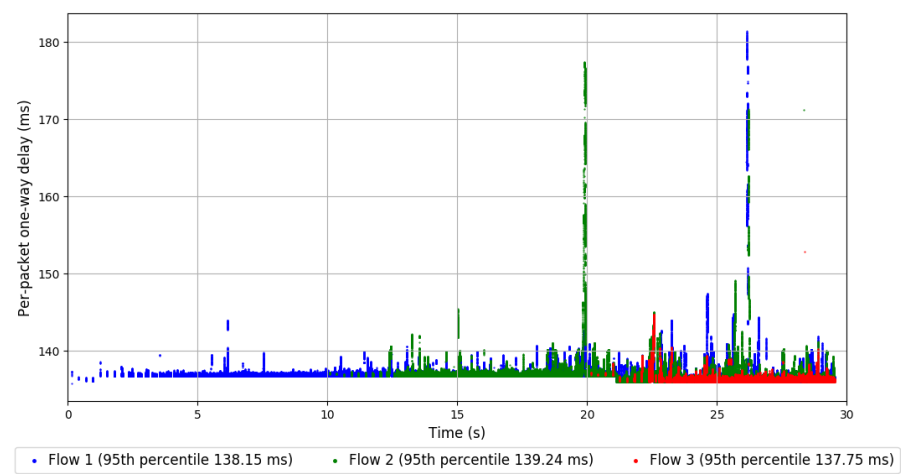
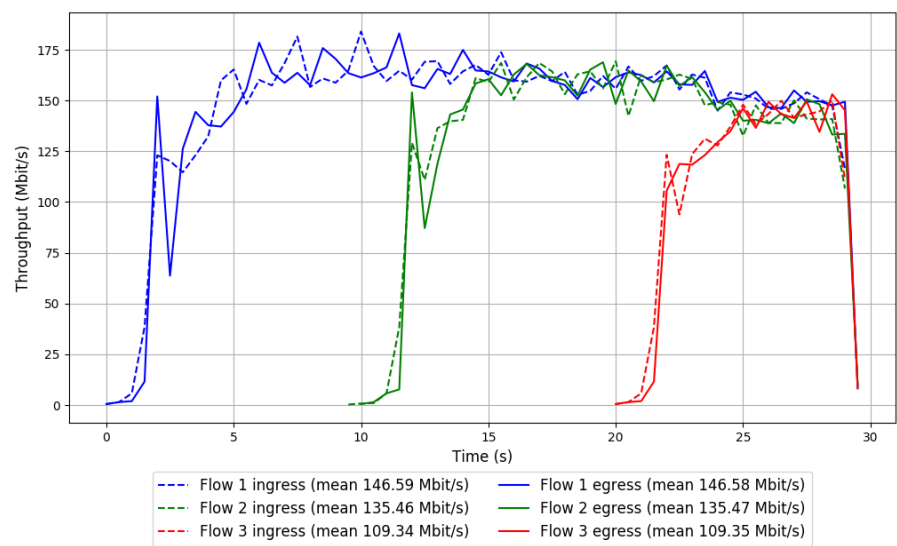
-- Flow 3:

Average throughput: 109.35 Mbit/s

95th percentile per-packet one-way delay: 137.748 ms

Loss rate: 0.00%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2017-12-01 12:37:14

End at: 2017-12-01 12:37:44

Below is generated by plot.py at 2017-12-01 14:45:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 263.88 Mbit/s

95th percentile per-packet one-way delay: 136.254 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 144.61 Mbit/s

95th percentile per-packet one-way delay: 135.799 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 130.34 Mbit/s

95th percentile per-packet one-way delay: 136.649 ms

Loss rate: 0.01%

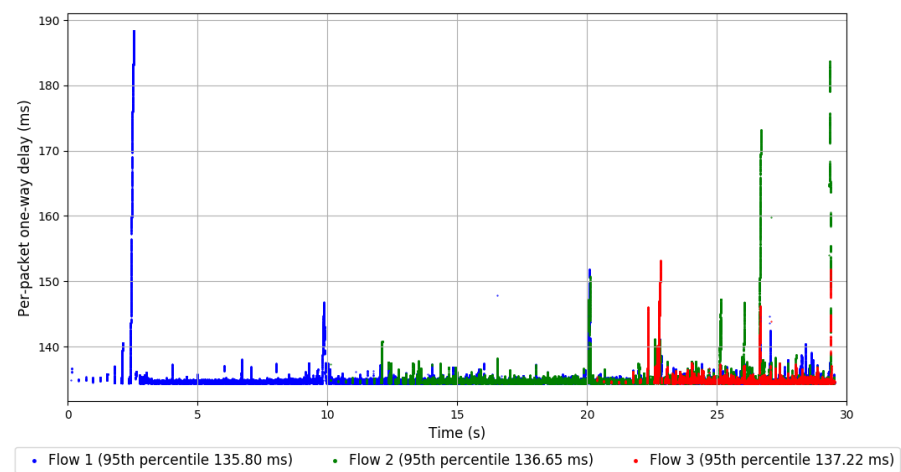
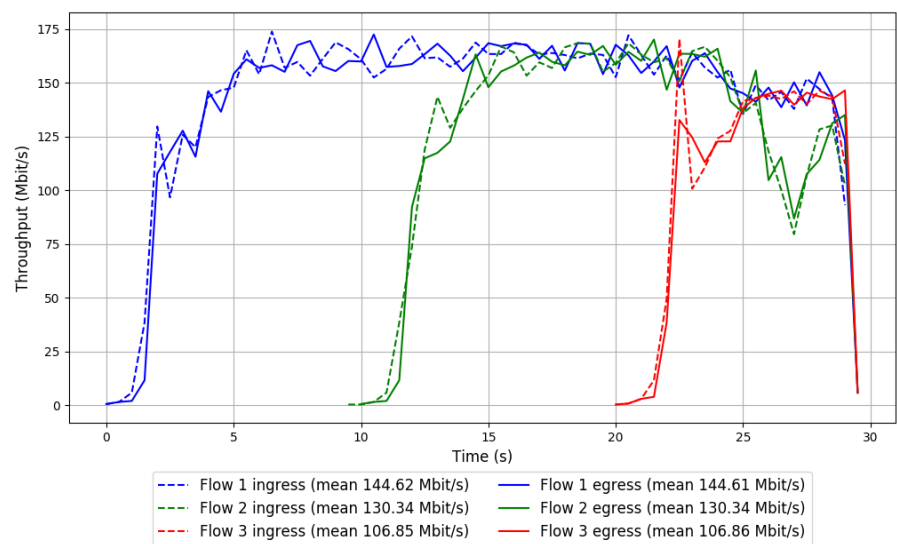
-- Flow 3:

Average throughput: 106.86 Mbit/s

95th percentile per-packet one-way delay: 137.218 ms

Loss rate: 0.00%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2017-12-01 12:51:05

End at: 2017-12-01 12:51:35

Below is generated by plot.py at 2017-12-01 14:46:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 274.02 Mbit/s

95th percentile per-packet one-way delay: 137.480 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 147.32 Mbit/s

95th percentile per-packet one-way delay: 137.125 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 138.71 Mbit/s

95th percentile per-packet one-way delay: 137.743 ms

Loss rate: 0.02%

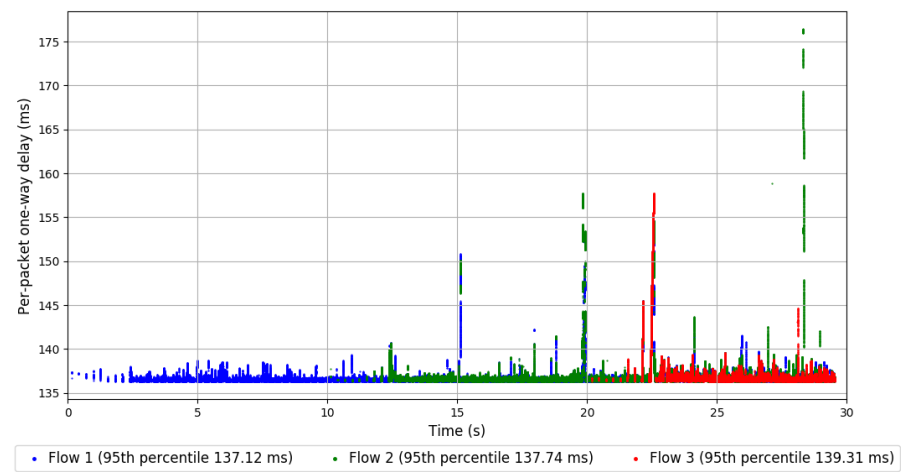
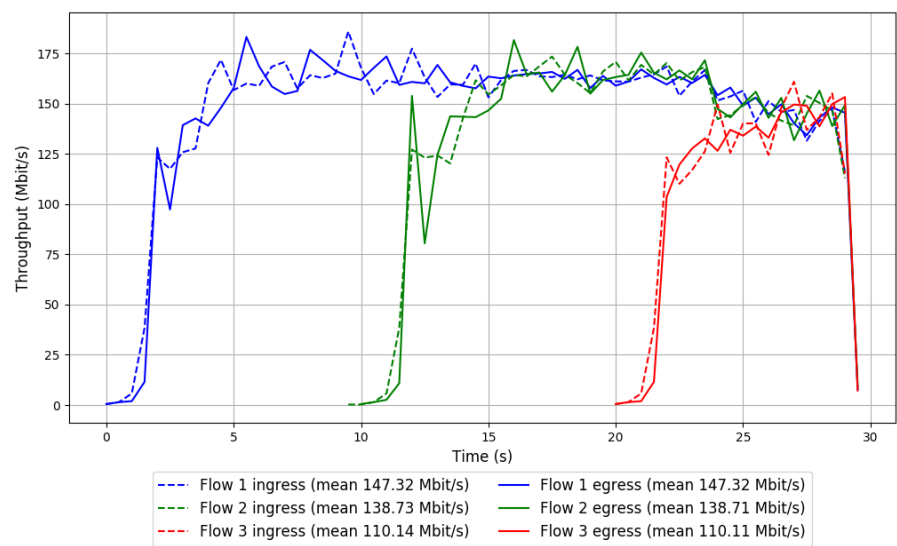
-- Flow 3:

Average throughput: 110.11 Mbit/s

95th percentile per-packet one-way delay: 139.309 ms

Loss rate: 0.03%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2017-12-01 13:05:29

End at: 2017-12-01 13:05:59

Below is generated by plot.py at 2017-12-01 14:48:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 269.75 Mbit/s

95th percentile per-packet one-way delay: 138.080 ms

Loss rate: 0.18%

-- Flow 1:

Average throughput: 143.74 Mbit/s

95th percentile per-packet one-way delay: 137.546 ms

Loss rate: 0.18%

-- Flow 2:

Average throughput: 137.08 Mbit/s

95th percentile per-packet one-way delay: 137.966 ms

Loss rate: 0.23%

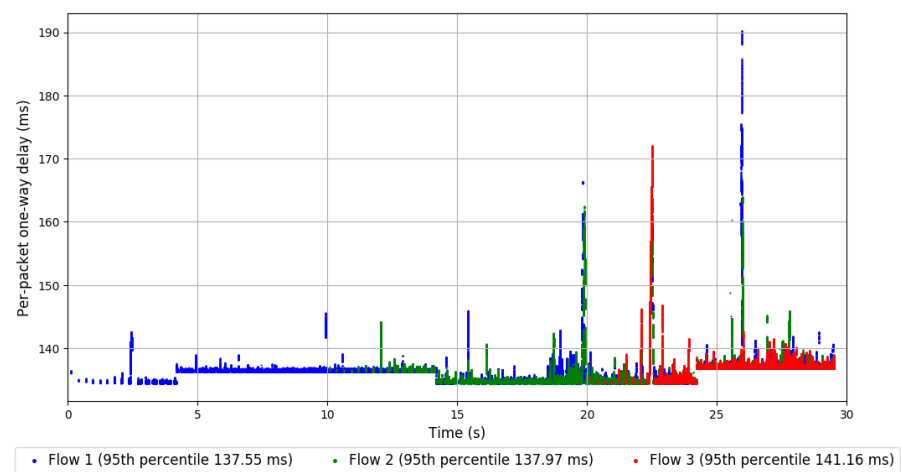
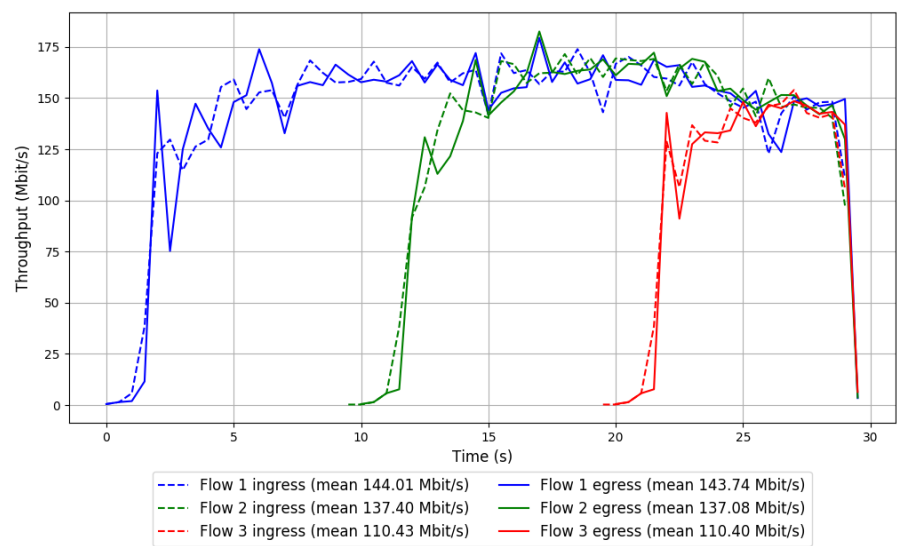
-- Flow 3:

Average throughput: 110.40 Mbit/s

95th percentile per-packet one-way delay: 141.157 ms

Loss rate: 0.01%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2017-12-01 13:19:06

End at: 2017-12-01 13:19:36

Below is generated by plot.py at 2017-12-01 14:48:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 252.12 Mbit/s

95th percentile per-packet one-way delay: 138.473 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 133.10 Mbit/s

95th percentile per-packet one-way delay: 138.349 ms

Loss rate: 0.16%

-- Flow 2:

Average throughput: 131.53 Mbit/s

95th percentile per-packet one-way delay: 138.432 ms

Loss rate: 0.02%

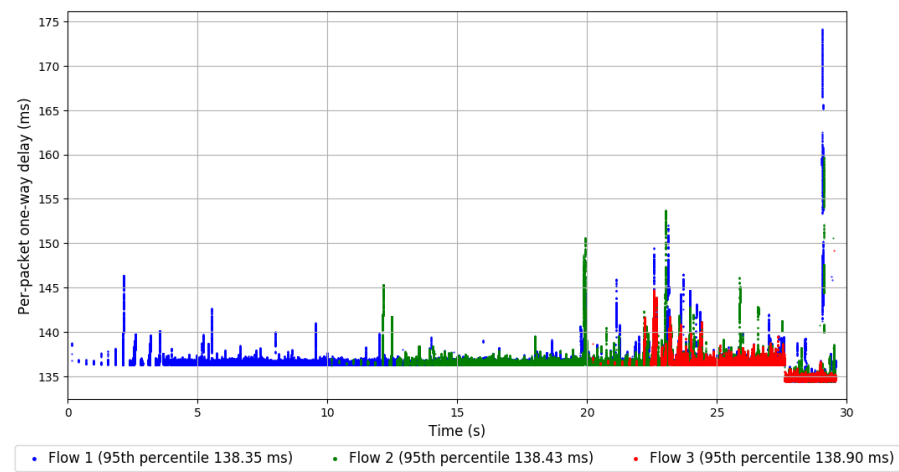
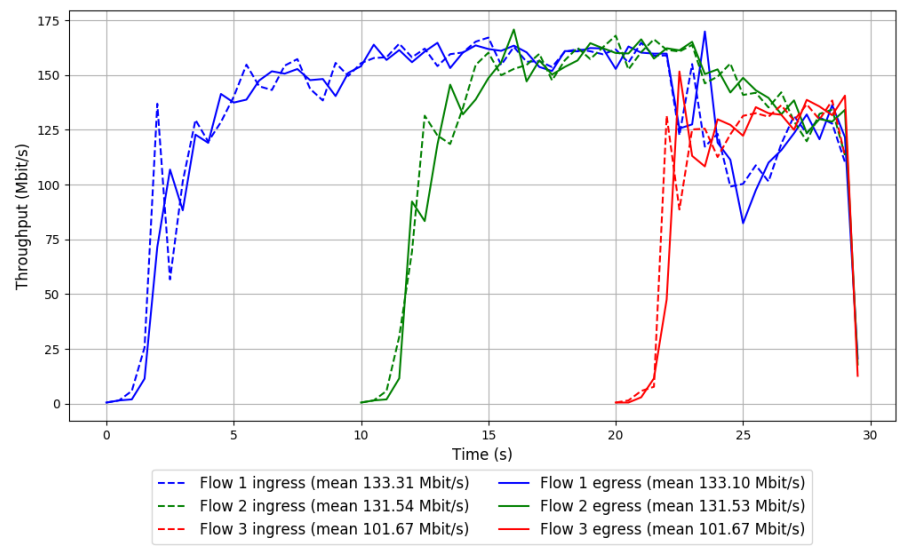
-- Flow 3:

Average throughput: 101.67 Mbit/s

95th percentile per-packet one-way delay: 138.902 ms

Loss rate: 0.03%

Run 10: Report of Indigo — Data Link

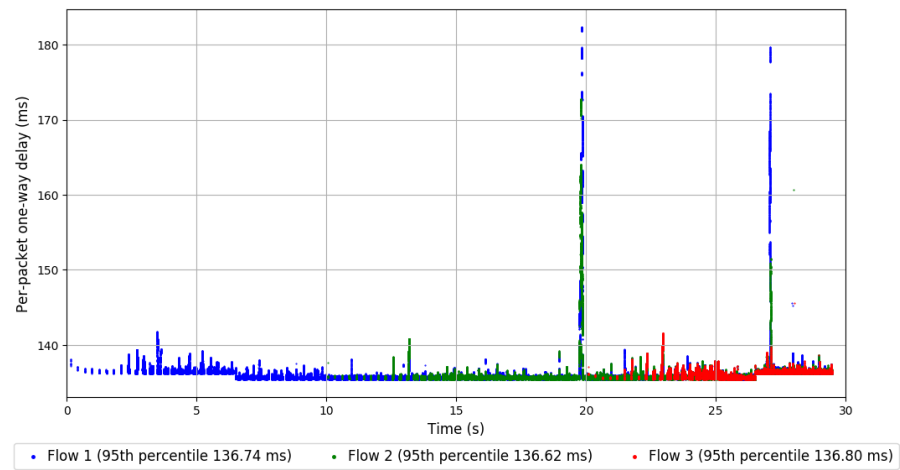
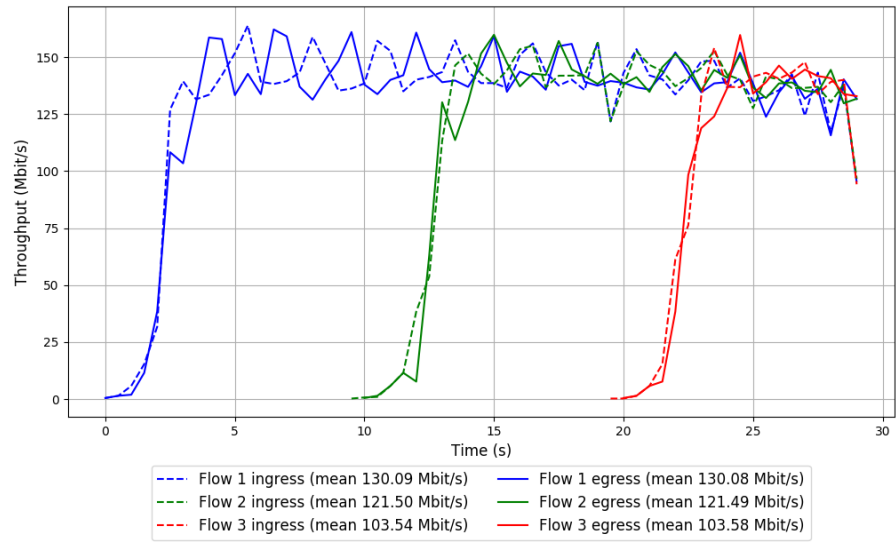


```
Run 1: Statistics of Indigo-calib

Start at: 2017-12-01 11:12:57
End at: 2017-12-01 11:13:27

# Below is generated by plot.py at 2017-12-01 14:48:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 243.68 Mbit/s
95th percentile per-packet one-way delay: 136.717 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 130.08 Mbit/s
95th percentile per-packet one-way delay: 136.743 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 121.49 Mbit/s
95th percentile per-packet one-way delay: 136.625 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 103.58 Mbit/s
95th percentile per-packet one-way delay: 136.798 ms
Loss rate: 0.01%
```

Run 1: Report of Indigo-calib — Data Link

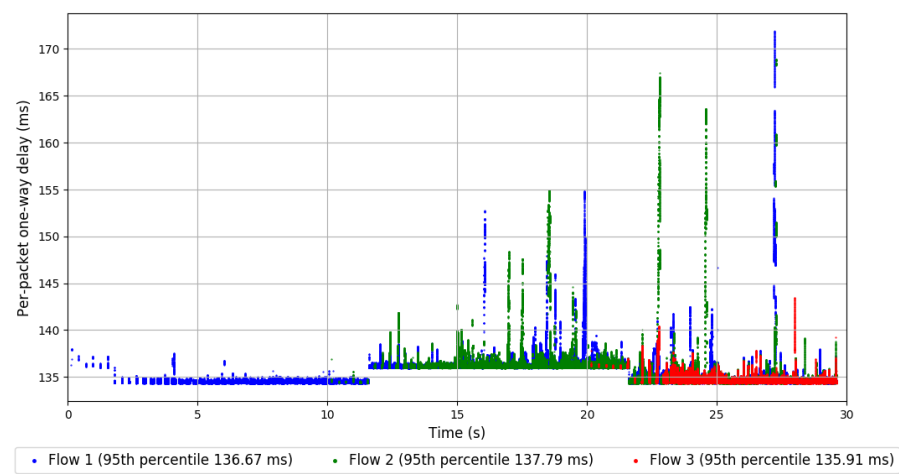
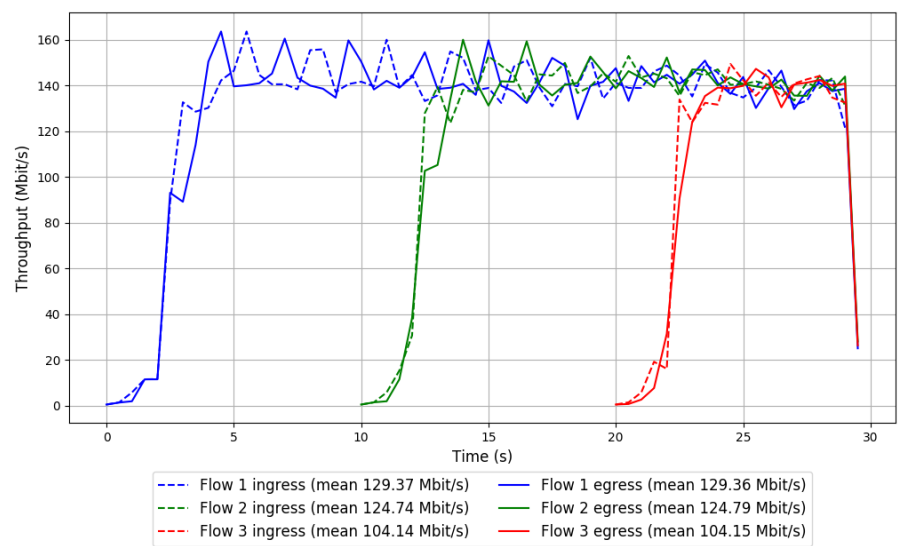


```
Run 2: Statistics of Indigo-calib

Start at: 2017-12-01 11:26:52
End at: 2017-12-01 11:27:22

# Below is generated by plot.py at 2017-12-01 14:48:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 245.00 Mbit/s
95th percentile per-packet one-way delay: 136.905 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 129.36 Mbit/s
95th percentile per-packet one-way delay: 136.673 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 124.79 Mbit/s
95th percentile per-packet one-way delay: 137.790 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 104.15 Mbit/s
95th percentile per-packet one-way delay: 135.913 ms
Loss rate: 0.00%
```

Run 2: Report of Indigo-calib — Data Link

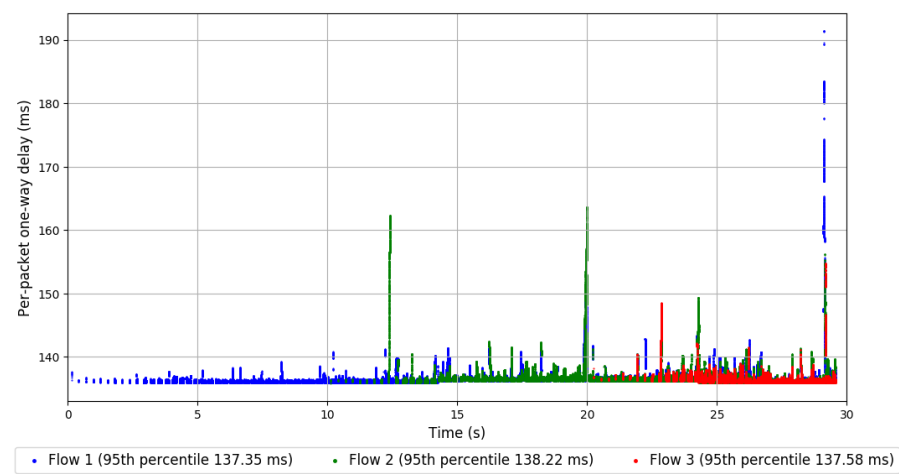
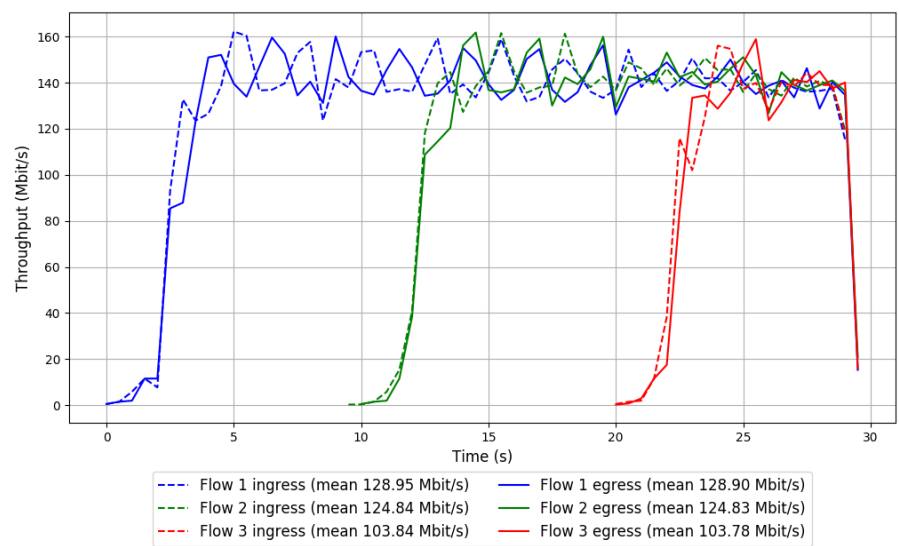


```
Run 3: Statistics of Indigo-calib

Start at: 2017-12-01 11:40:19
End at: 2017-12-01 11:40:49

# Below is generated by plot.py at 2017-12-01 14:49:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 244.16 Mbit/s
95th percentile per-packet one-way delay: 137.678 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 128.90 Mbit/s
95th percentile per-packet one-way delay: 137.350 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 124.83 Mbit/s
95th percentile per-packet one-way delay: 138.223 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 103.78 Mbit/s
95th percentile per-packet one-way delay: 137.584 ms
Loss rate: 0.06%
```


Run 3: Report of Indigo-calib — Data Link

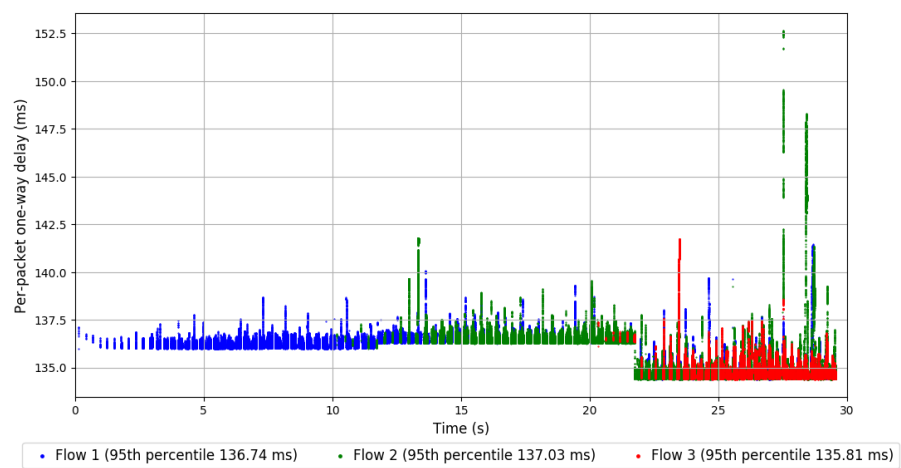
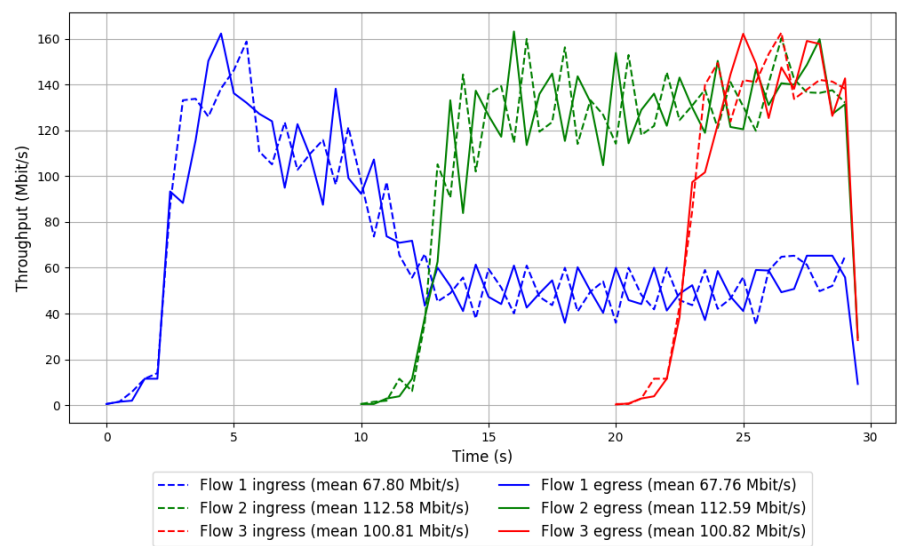


```
Run 4: Statistics of Indigo-calib

Start at: 2017-12-01 11:54:32
End at: 2017-12-01 11:55:02

# Below is generated by plot.py at 2017-12-01 14:49:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 173.46 Mbit/s
95th percentile per-packet one-way delay: 136.798 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 67.76 Mbit/s
95th percentile per-packet one-way delay: 136.741 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 112.59 Mbit/s
95th percentile per-packet one-way delay: 137.030 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 100.82 Mbit/s
95th percentile per-packet one-way delay: 135.805 ms
Loss rate: 0.01%
```

Run 4: Report of Indigo-calib — Data Link

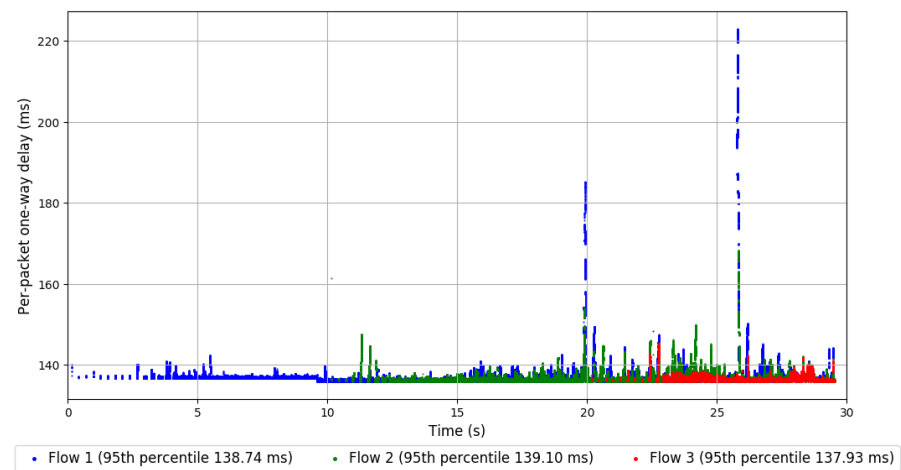
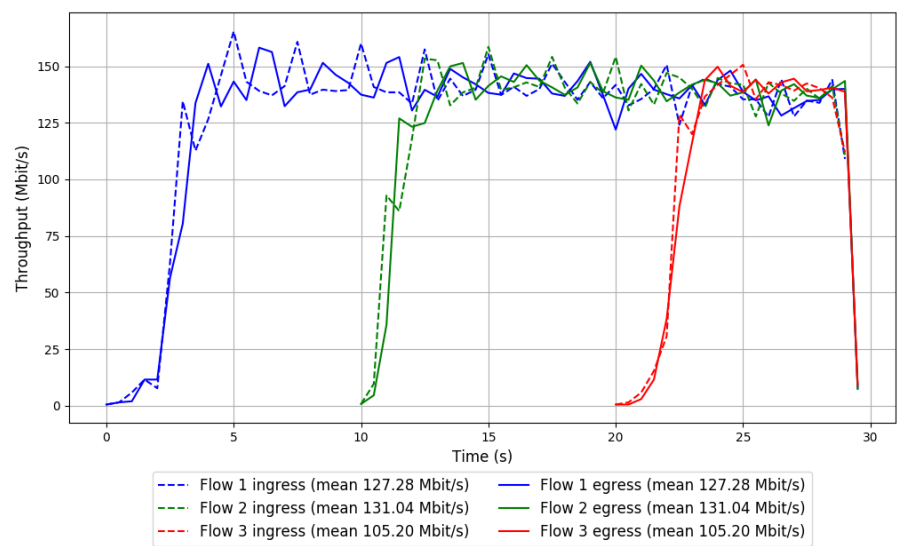


```
Run 5: Statistics of Indigo-calib

Start at: 2017-12-01 12:08:34
End at: 2017-12-01 12:09:04

# Below is generated by plot.py at 2017-12-01 14:49:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 247.19 Mbit/s
95th percentile per-packet one-way delay: 138.757 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 127.28 Mbit/s
95th percentile per-packet one-way delay: 138.744 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 131.04 Mbit/s
95th percentile per-packet one-way delay: 139.103 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 105.20 Mbit/s
95th percentile per-packet one-way delay: 137.926 ms
Loss rate: 0.00%
```

Run 5: Report of Indigo-calib — Data Link



Run 6: Statistics of Indigo-calib

Start at: 2017-12-01 12:22:31

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

Below is generated by plot.py at 2017-12-01 14:50:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 219.47 Mbit/s

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

Loss rate: 0.05%

-- Flow 1:

Average throughput: 110.74 Mbit/s

95th percentile per-packet one-way delay: 136.513 ms

Loss rate: 0.09%

-- Flow 2:

Average throughput: 118.40 Mbit/s

95th percentile per-packet one-way delay: 136.670 ms

Loss rate: 0.02%

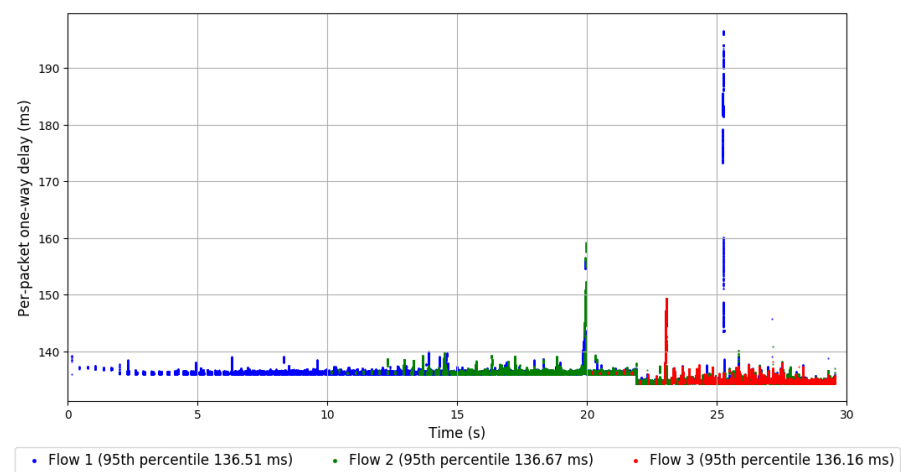
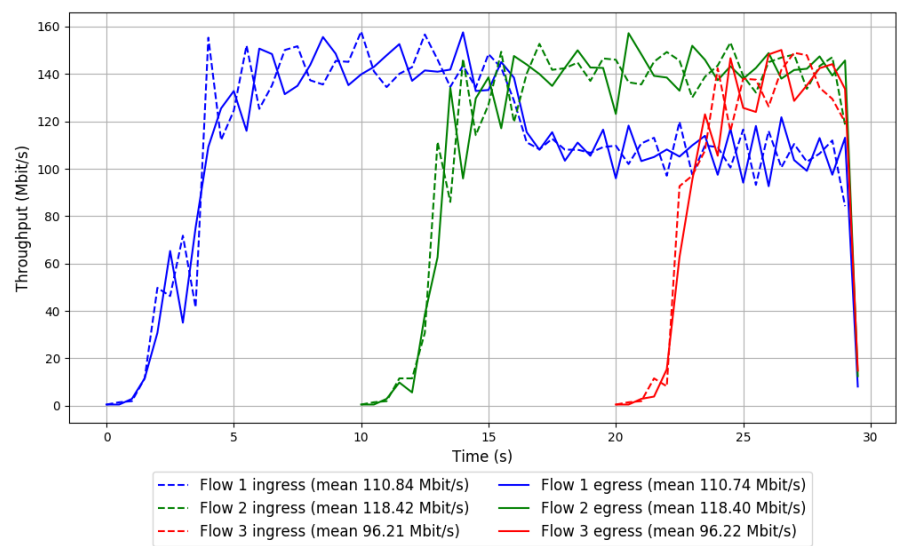
-- Flow 3:

Average throughput: 96.22 Mbit/s

95th percentile per-packet one-way delay: 136.164 ms

Loss rate: 0.00%

Run 6: Report of Indigo-calib — Data Link



Run 7: Statistics of Indigo-calib

Start at: 2017-12-01 12:36:03

End at: 2017-12-01 12:36:33

Below is generated by plot.py at 2017-12-01 14:50:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 230.45 Mbit/s

95th percentile per-packet one-way delay: 139.315 ms

Loss rate: 0.30%

-- Flow 1:

Average throughput: 117.80 Mbit/s

95th percentile per-packet one-way delay: 138.189 ms

Loss rate: 0.18%

-- Flow 2:

Average throughput: 122.68 Mbit/s

95th percentile per-packet one-way delay: 138.619 ms

Loss rate: 0.28%

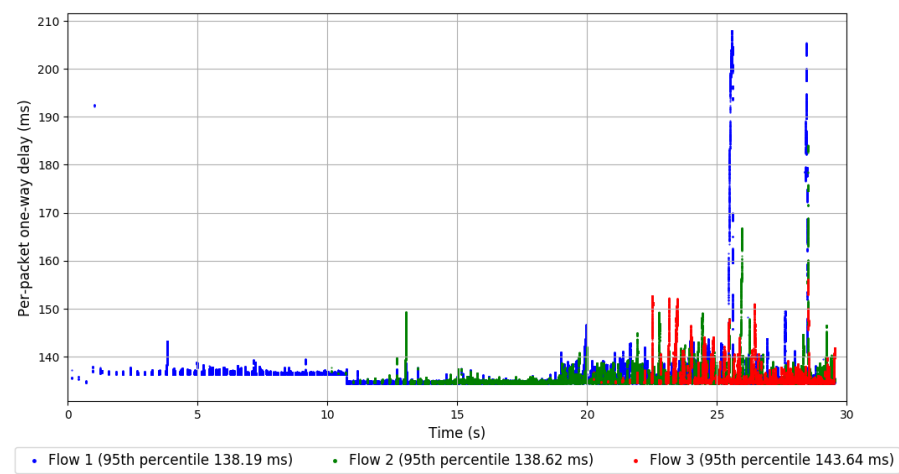
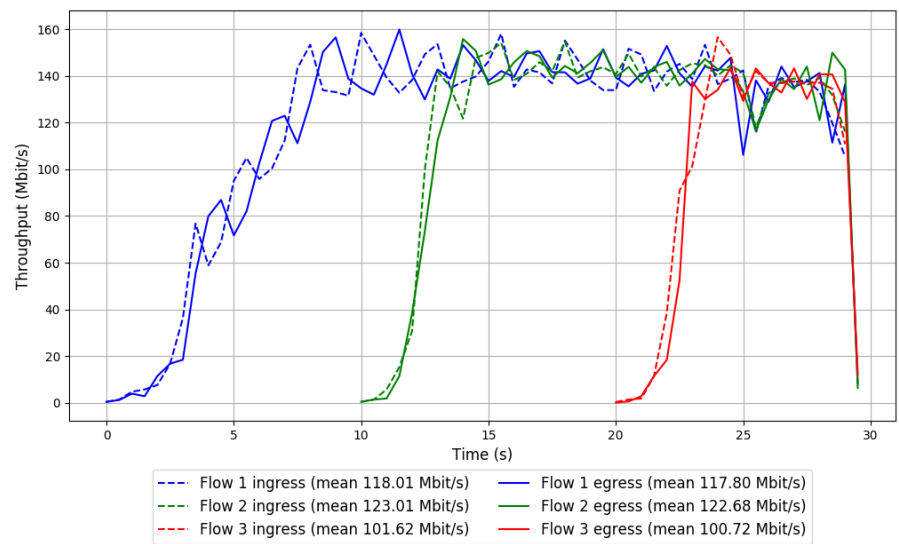
-- Flow 3:

Average throughput: 100.72 Mbit/s

95th percentile per-packet one-way delay: 143.636 ms

Loss rate: 0.84%

Run 7: Report of Indigo-calib — Data Link



Run 8: Statistics of Indigo-calib

Start at: 2017-12-01 12:49:53

End at: 2017-12-01 12:50:23

Below is generated by plot.py at 2017-12-01 14:50:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 225.78 Mbit/s

95th percentile per-packet one-way delay: 138.067 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 111.80 Mbit/s

95th percentile per-packet one-way delay: 138.108 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 124.60 Mbit/s

95th percentile per-packet one-way delay: 138.325 ms

Loss rate: 0.01%

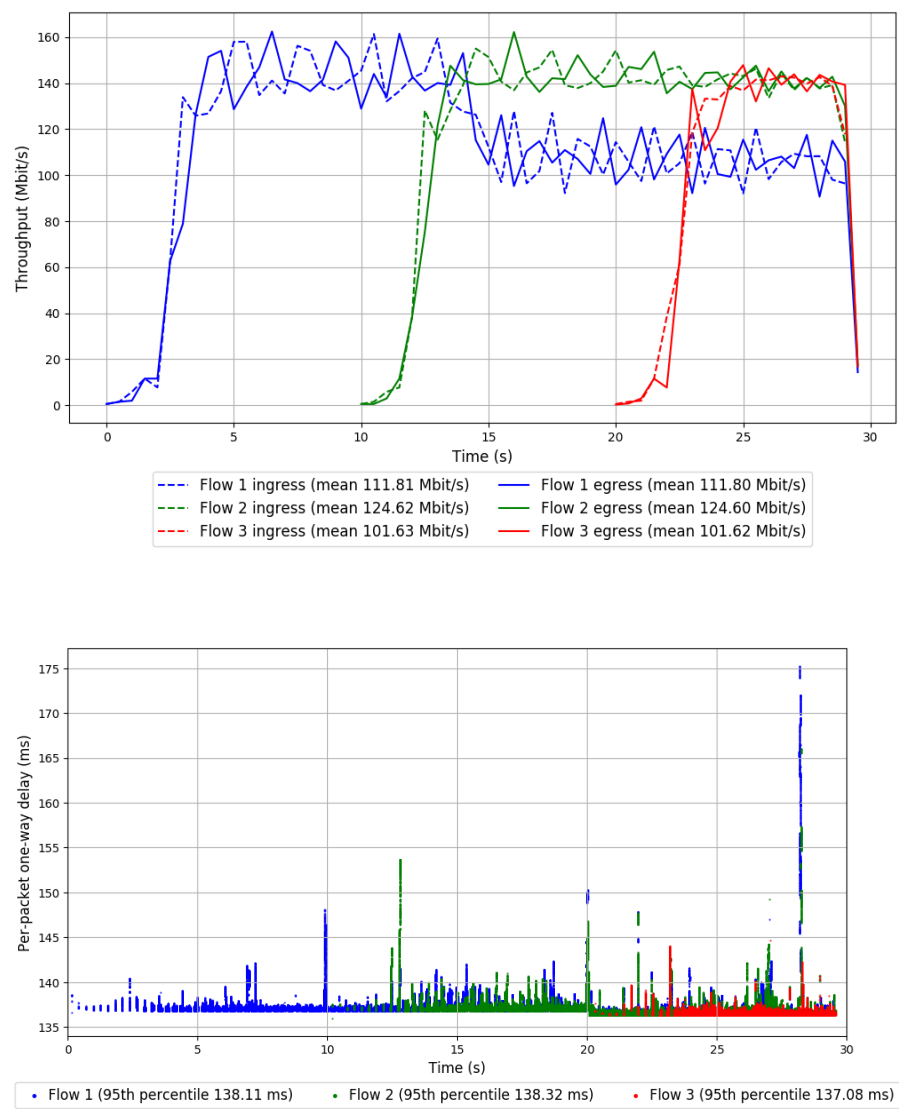
-- Flow 3:

Average throughput: 101.62 Mbit/s

95th percentile per-packet one-way delay: 137.082 ms

Loss rate: 0.01%

Run 8: Report of Indigo-calib — Data Link



Run 9: Statistics of Indigo-calib

Start at: 2017-12-01 13:04:19

End at: 2017-12-01 13:04:49

Below is generated by plot.py at 2017-12-01 14:50:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 234.84 Mbit/s

95th percentile per-packet one-way delay: 137.142 ms

Loss rate: 0.11%

-- Flow 1:

Average throughput: 131.18 Mbit/s

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

Loss rate: 0.20%

-- Flow 2:

Average throughput: 108.84 Mbit/s

95th percentile per-packet one-way delay: 137.286 ms

Loss rate: 0.00%

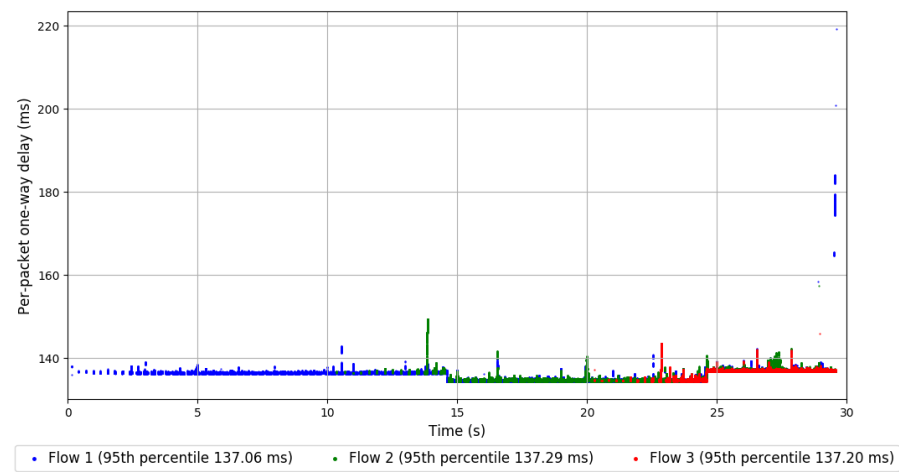
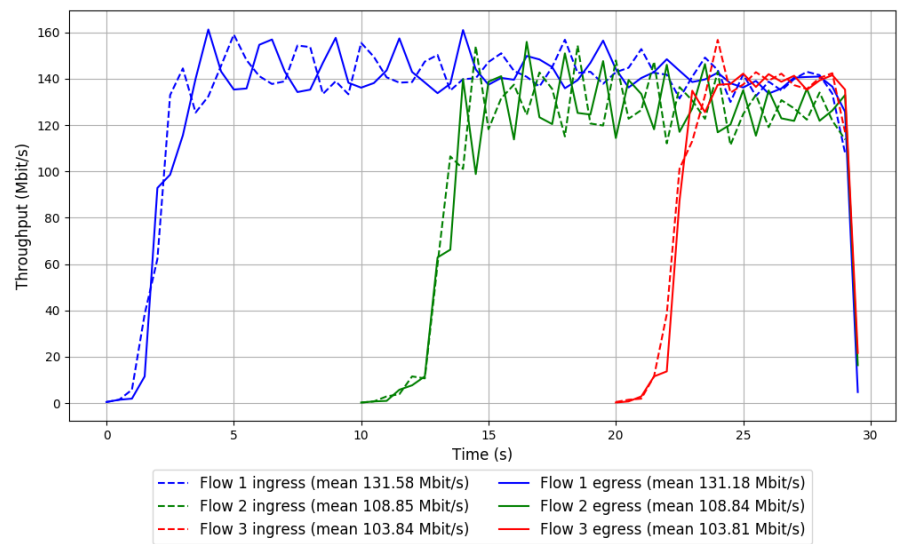
-- Flow 3:

Average throughput: 103.81 Mbit/s

95th percentile per-packet one-way delay: 137.198 ms

Loss rate: 0.00%

Run 9: Report of Indigo-calib — Data Link



Run 10: Statistics of Indigo-calib

Start at: 2017-12-01 13:17:53

End at: 2017-12-01 13:18:23

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 238.01 Mbit/s

95th percentile per-packet one-way delay: 138.125 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 128.72 Mbit/s

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

Loss rate: 0.10%

-- Flow 2:

Average throughput: 118.48 Mbit/s

95th percentile per-packet one-way delay: 138.402 ms

Loss rate: 0.00%

-- Flow 3:

Average throughput: 97.63 Mbit/s

95th percentile per-packet one-way delay: 137.964 ms

Loss rate: 0.00%

Run 10: Report of Indigo-calib — Data Link

