

Pantheon Report

Generated at 2017-12-05 21:08:42 (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 1 flow.

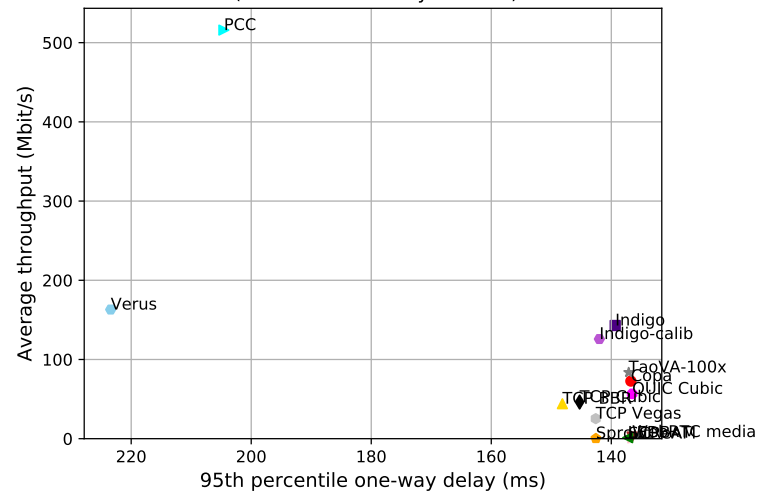
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

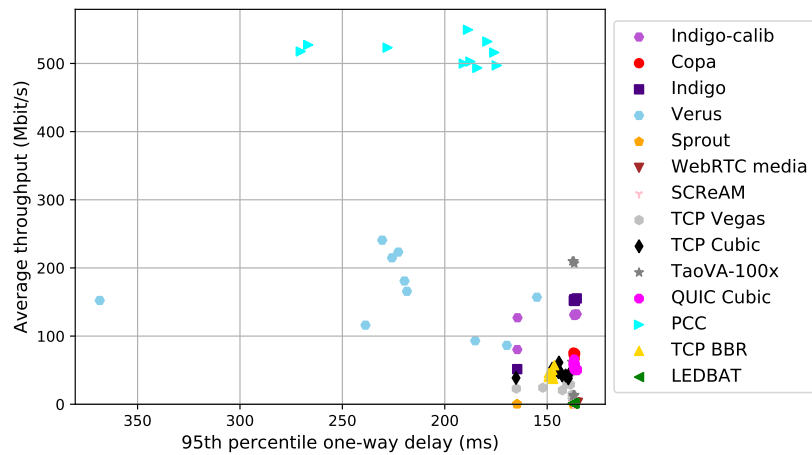
Git summary:

```
branch: indigos @ e3a57ad5ac5cfcaca0e3f983c8dd4cc3509e0262
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/genericCC @ b5b7c38e8391001927dc41c6cfa2627d03dde737
third_party/indigo @ b19f3730105f9aa95452552af924e3719b03cc55
third_party/indigo-cellular @ aee99e8eb842cb053f8c9a80e28cd256a930bbc2
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/indigo-no-cwnd @ 3e58442c04028a11d7b02456e137604633ba2d6c
third_party/indigo-no-delivery-rate @ 57caa40858b964906edff4876d5a7e5bfff666c5
third_party/indigo-no-queuing-delay @ 03455460fd1a8ffbdad86fab936fdca204b80db
third_party/indigo-no-send-rate @ b39dfa6b2c5f19cb7cd89626cb4f5bb81f9fecda
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
  M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ baf443516dea3eeddeccaf9b916cc313273ca4f4
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
  M receiver/src/buffer.h
  M receiver/src/core.cpp
  M sender/src/buffer.h
  M sender/src/core.cpp
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eaaeb30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
  M src/examples/cellsim.cc
  M src/examples/sproutbt2.cc
  M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/webrtc @ a488197ddd041ace68a42849b2540ad834825f42
```

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



test from GCE Sydney Ethernet to GCE London Ethernet, 10 runs of 30s each per scheme



scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	10	44.15	148.15	0.03
TCP Cubic	10	46.26	145.28	0.01
LEDBAT	10	1.21	137.27	0.18
PCC	10	515.87	204.55	1.80
QUIC Cubic	10	56.62	136.53	0.00
SCReAM	10	0.22	137.15	0.00
WebRTC media	10	2.10	136.54	0.00
Sprout	10	0.39	142.57	0.00
TaoVA-100x	9	83.70	137.11	0.43
TCP Vegas	10	25.30	142.59	0.03
Verus	10	163.05	223.42	1.52
Copa	6	72.73	136.74	0.00
Indigo	10	142.91	139.35	0.00
Indigo-calib	10	125.83	141.99	0.06

Run 1: Statistics of TCP BBR

Start at: 2017-12-05 18:19:37

End at: 2017-12-05 18:20:07

Below is generated by plot.py at 2017-12-05 20:39:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 40.07 Mbit/s

95th percentile per-packet one-way delay: 149.298 ms

Loss rate: 0.05%

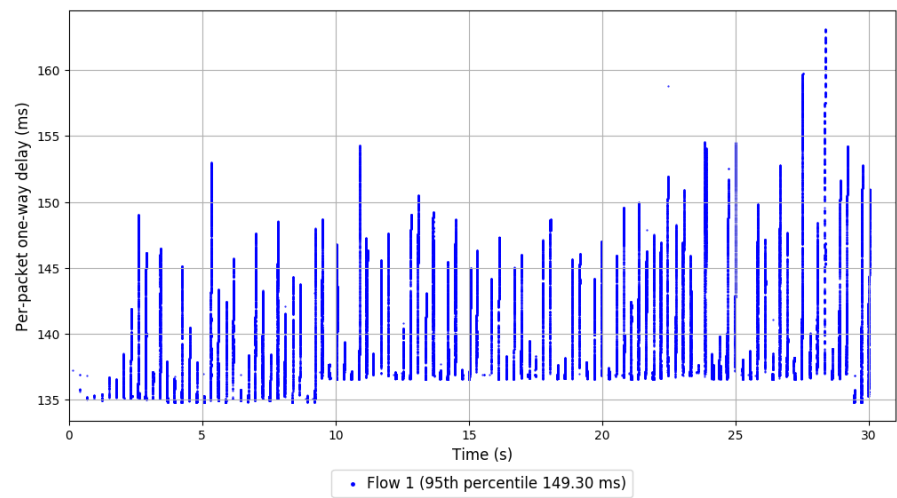
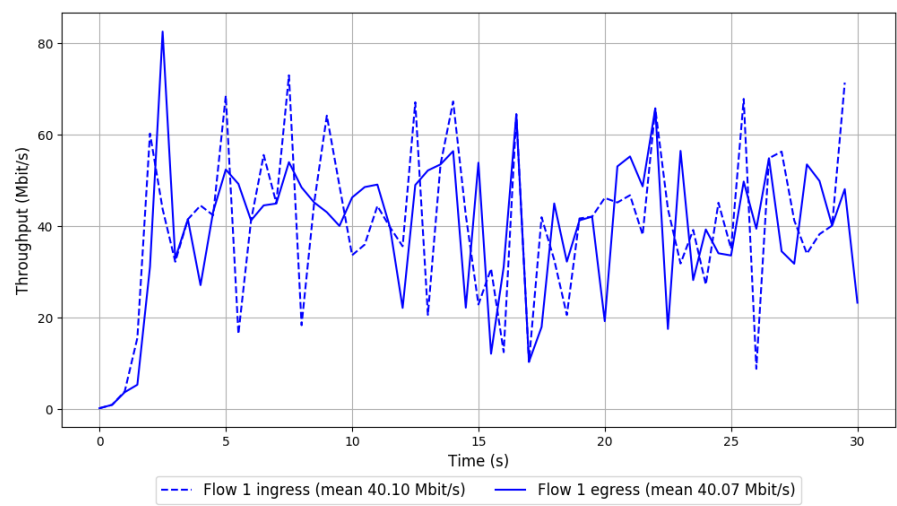
-- Flow 1:

Average throughput: 40.07 Mbit/s

95th percentile per-packet one-way delay: 149.298 ms

Loss rate: 0.05%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2017-12-05 18:30:42

End at: 2017-12-05 18:31:12

Below is generated by plot.py at 2017-12-05 20:39:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 57.22 Mbit/s

95th percentile per-packet one-way delay: 146.556 ms

Loss rate: 0.00%

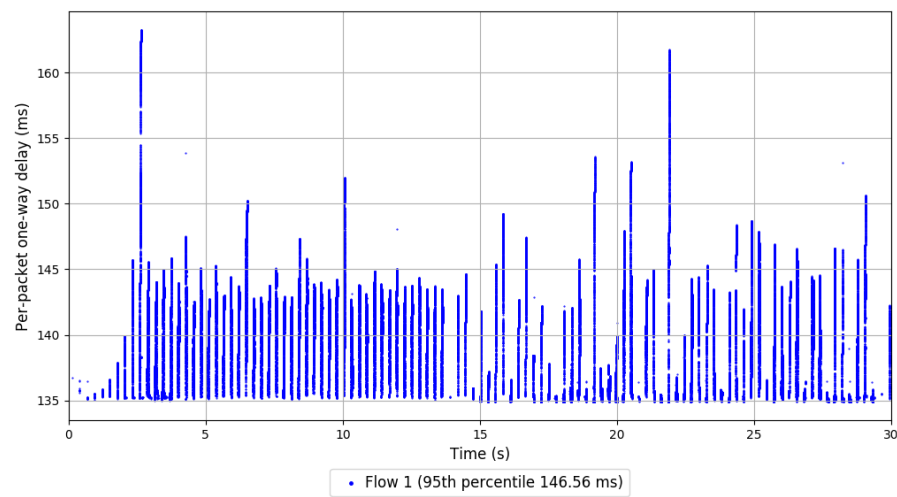
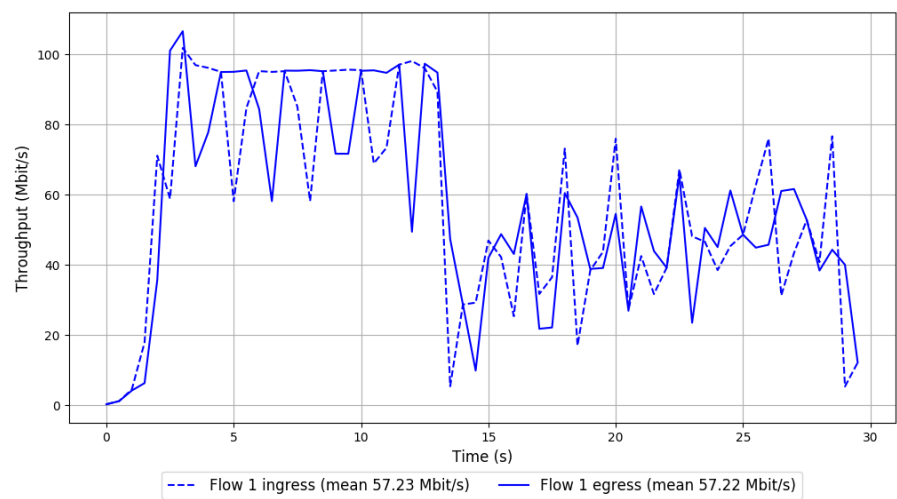
-- Flow 1:

Average throughput: 57.22 Mbit/s

95th percentile per-packet one-way delay: 146.556 ms

Loss rate: 0.00%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2017-12-05 18:41:56

End at: 2017-12-05 18:42:26

Below is generated by plot.py at 2017-12-05 20:39:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.35 Mbit/s

95th percentile per-packet one-way delay: 147.468 ms

Loss rate: 0.01%

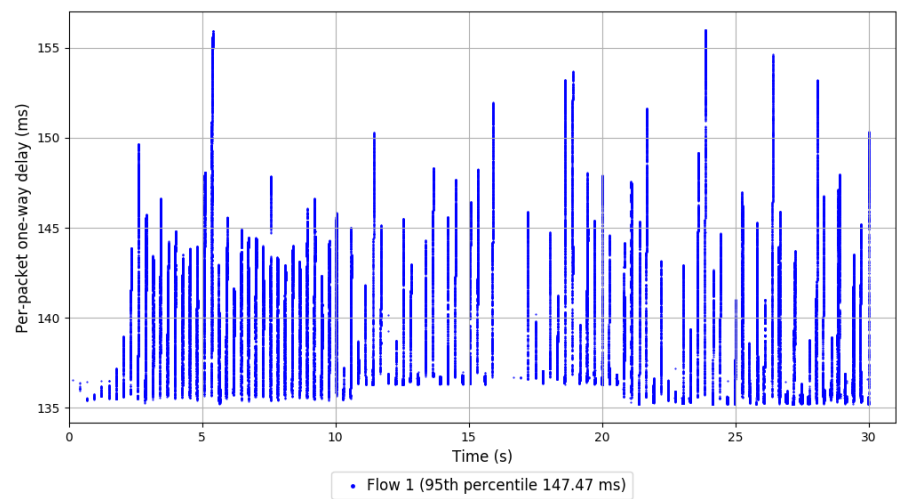
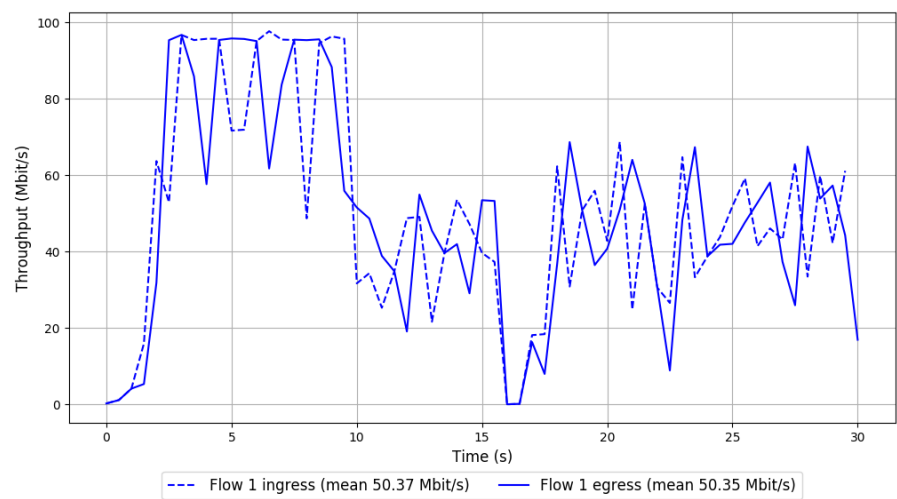
-- Flow 1:

Average throughput: 50.35 Mbit/s

95th percentile per-packet one-way delay: 147.468 ms

Loss rate: 0.01%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2017-12-05 18:53:21

End at: 2017-12-05 18:53:51

Below is generated by plot.py at 2017-12-05 20:39:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 40.35 Mbit/s

95th percentile per-packet one-way delay: 148.856 ms

Loss rate: 0.06%

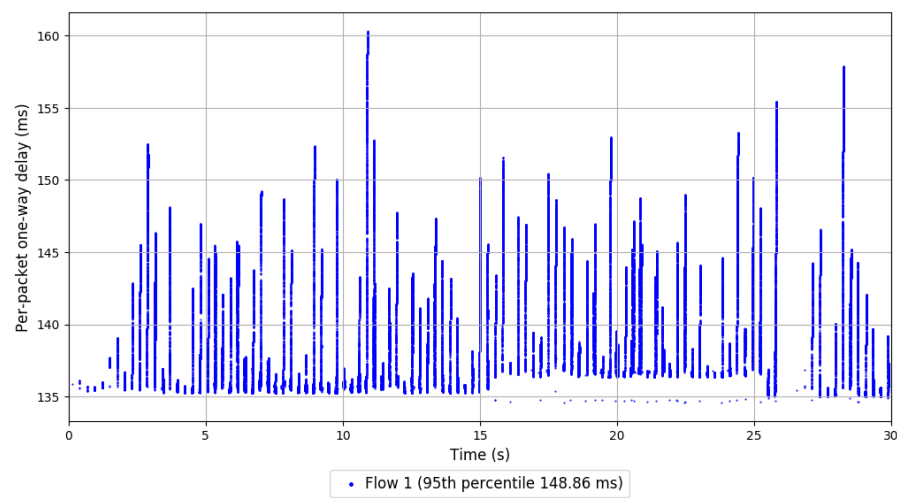
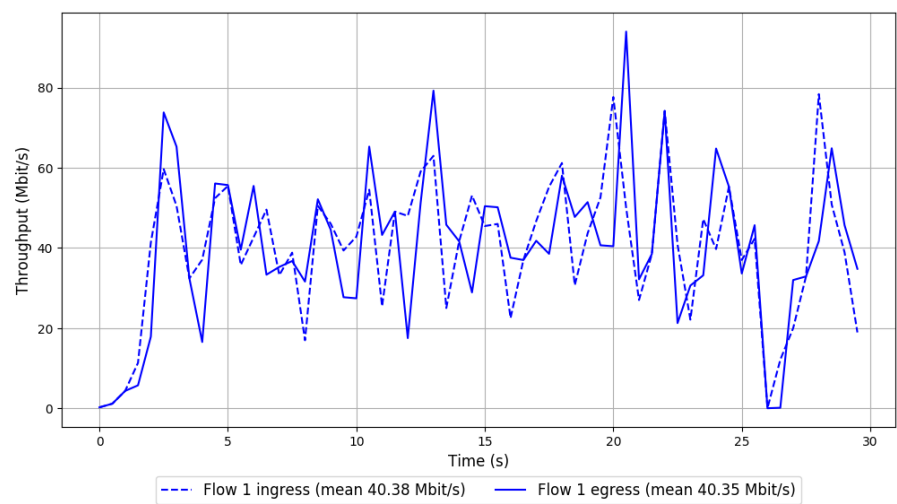
-- Flow 1:

Average throughput: 40.35 Mbit/s

95th percentile per-packet one-way delay: 148.856 ms

Loss rate: 0.06%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2017-12-05 19:04:28

End at: 2017-12-05 19:04:58

Below is generated by plot.py at 2017-12-05 20:39:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 41.79 Mbit/s

95th percentile per-packet one-way delay: 147.433 ms

Loss rate: 0.01%

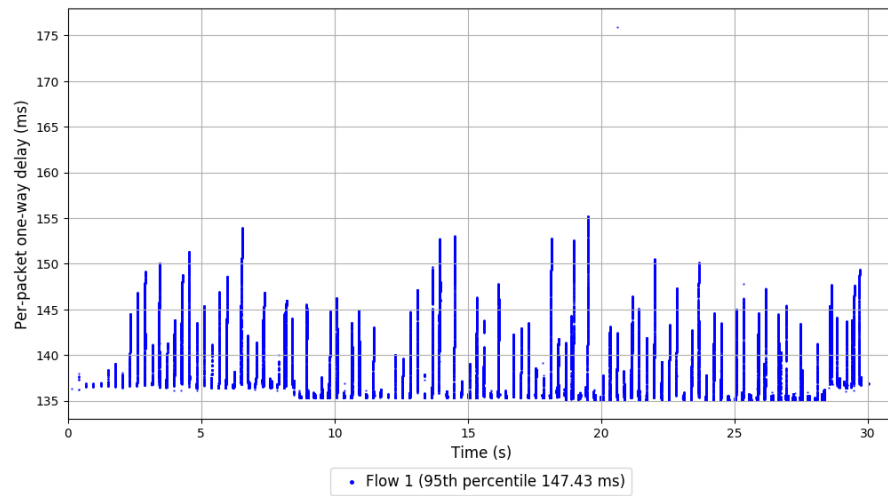
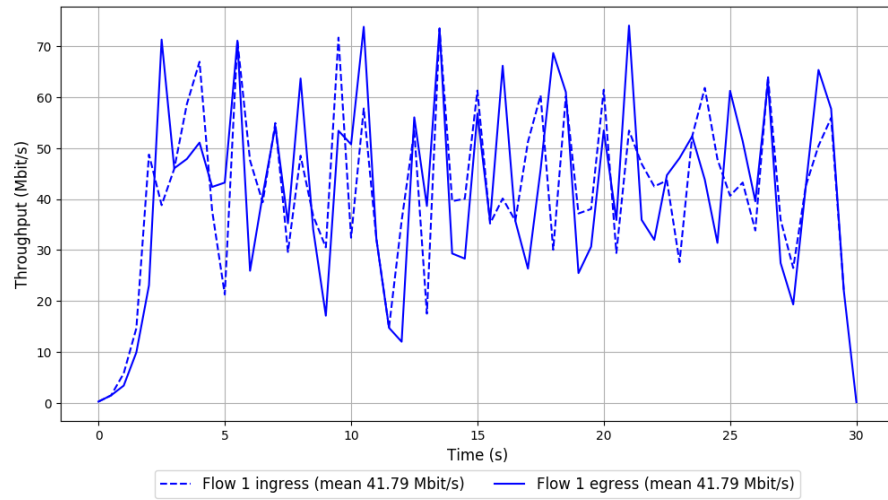
-- Flow 1:

Average throughput: 41.79 Mbit/s

95th percentile per-packet one-way delay: 147.433 ms

Loss rate: 0.01%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2017-12-05 19:15:42

End at: 2017-12-05 19:16:12

Below is generated by plot.py at 2017-12-05 20:39:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 37.20 Mbit/s

95th percentile per-packet one-way delay: 147.092 ms

Loss rate: 0.04%

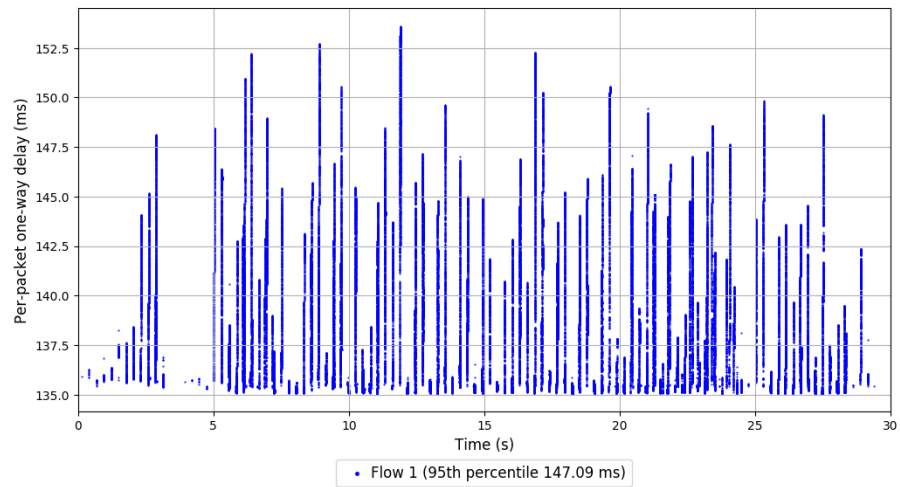
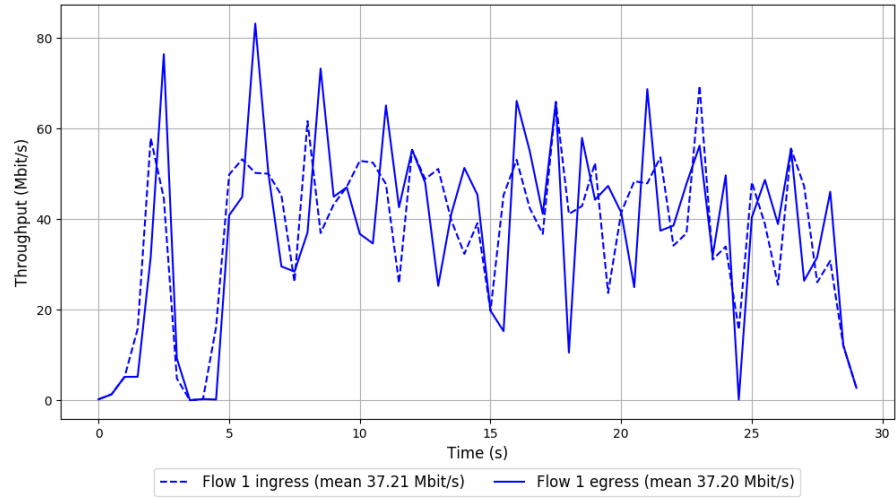
-- Flow 1:

Average throughput: 37.20 Mbit/s

95th percentile per-packet one-way delay: 147.092 ms

Loss rate: 0.04%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2017-12-05 19:27:18

End at: 2017-12-05 19:27:48

Below is generated by plot.py at 2017-12-05 20:39:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 45.78 Mbit/s

95th percentile per-packet one-way delay: 149.171 ms

Loss rate: 0.02%

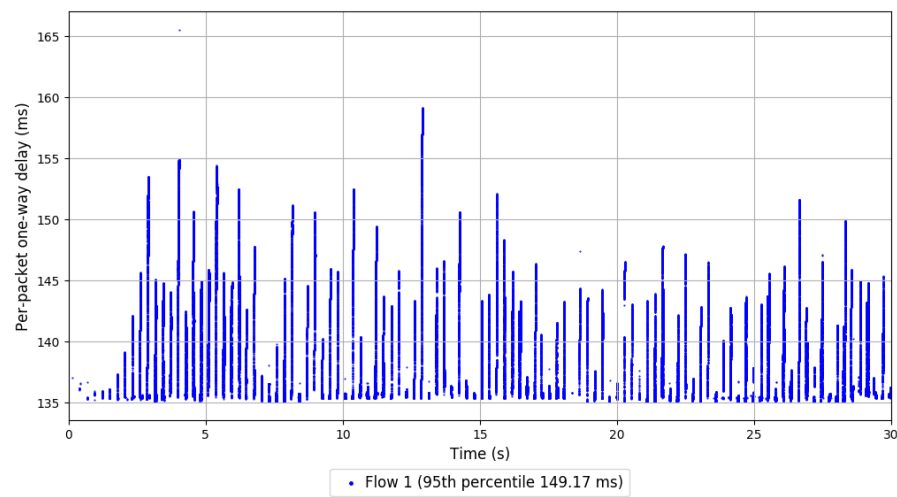
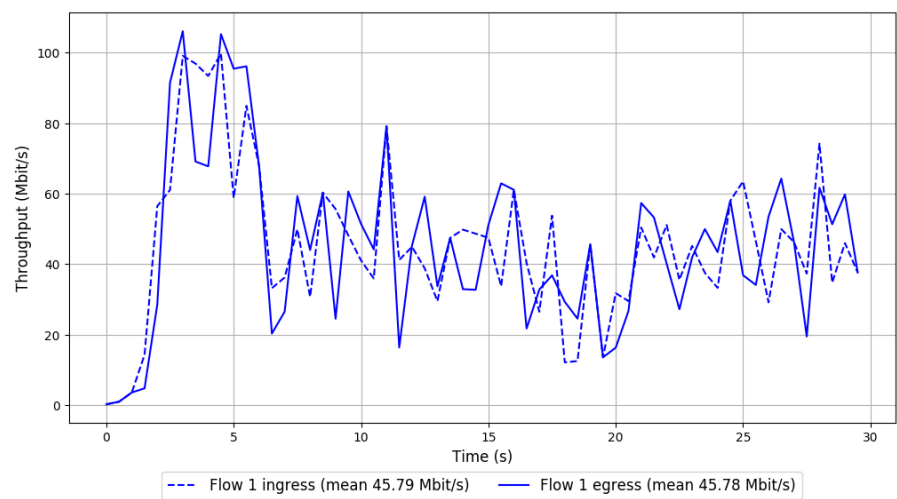
-- Flow 1:

Average throughput: 45.78 Mbit/s

95th percentile per-packet one-way delay: 149.171 ms

Loss rate: 0.02%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2017-12-05 19:38:21

End at: 2017-12-05 19:38:51

Below is generated by plot.py at 2017-12-05 20:39:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 47.08 Mbit/s

95th percentile per-packet one-way delay: 148.187 ms

Loss rate: 0.02%

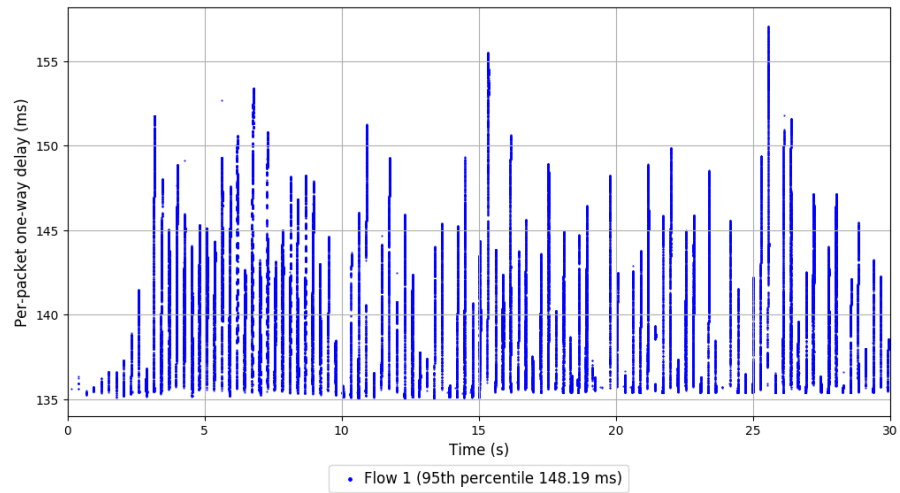
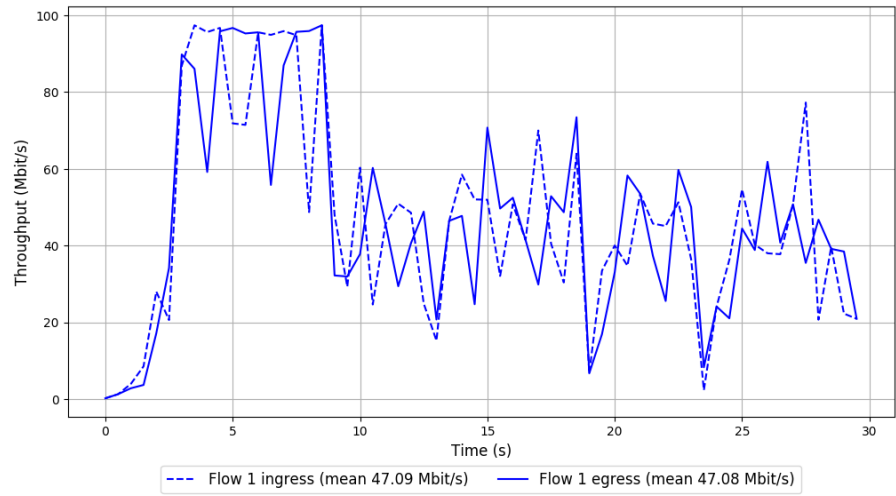
-- Flow 1:

Average throughput: 47.08 Mbit/s

95th percentile per-packet one-way delay: 148.187 ms

Loss rate: 0.02%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2017-12-05 19:50:01

End at: 2017-12-05 19:50:31

Below is generated by plot.py at 2017-12-05 20:40:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 40.46 Mbit/s

95th percentile per-packet one-way delay: 148.792 ms

Loss rate: 0.04%

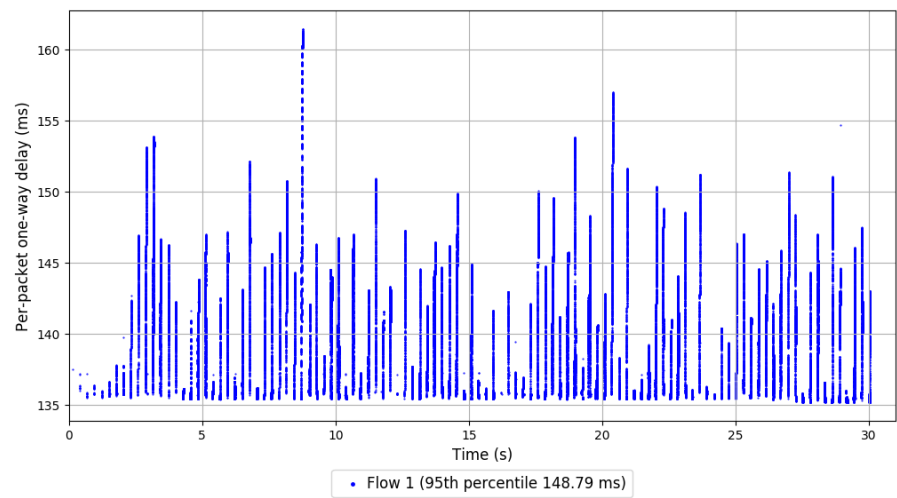
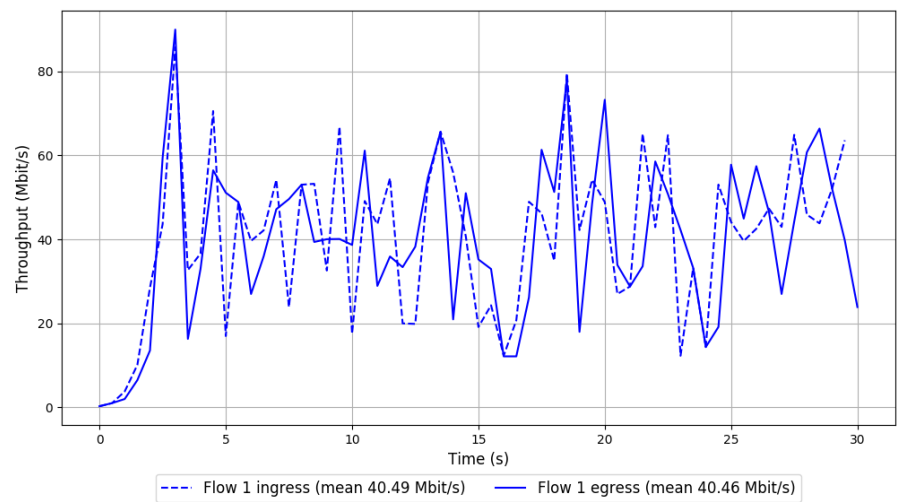
-- Flow 1:

Average throughput: 40.46 Mbit/s

95th percentile per-packet one-way delay: 148.792 ms

Loss rate: 0.04%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2017-12-05 20:01:45

End at: 2017-12-05 20:02:15

Below is generated by plot.py at 2017-12-05 20:40:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 41.24 Mbit/s

95th percentile per-packet one-way delay: 148.611 ms

Loss rate: 0.00%

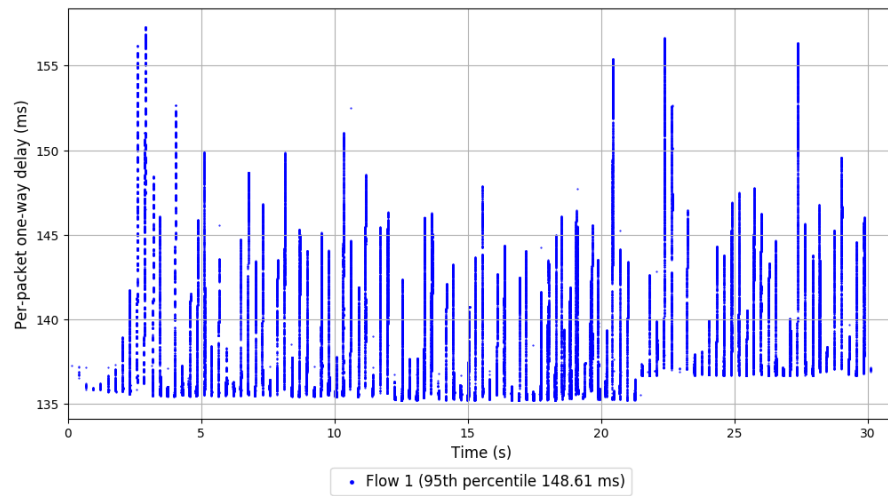
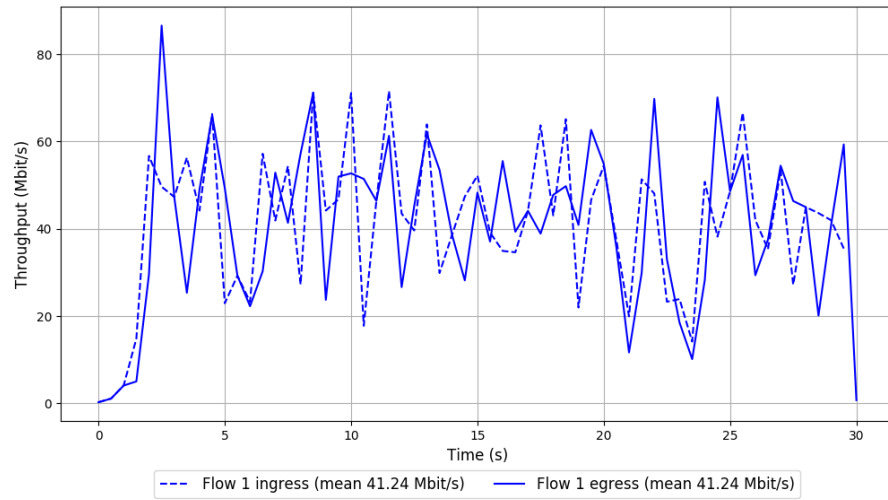
-- Flow 1:

Average throughput: 41.24 Mbit/s

95th percentile per-packet one-way delay: 148.611 ms

Loss rate: 0.00%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2017-12-05 18:15:24

End at: 2017-12-05 18:15:54

Below is generated by plot.py at 2017-12-05 20:40:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 38.65 Mbit/s

95th percentile per-packet one-way delay: 165.194 ms

Loss rate: 0.00%

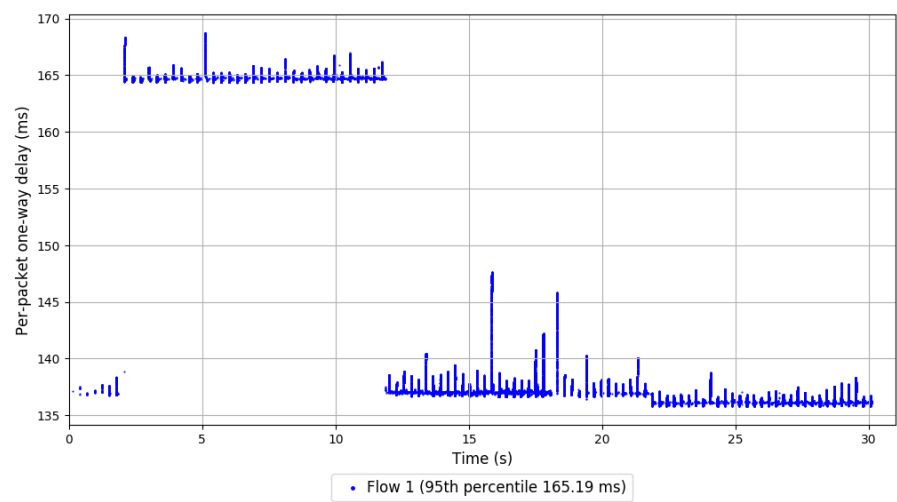
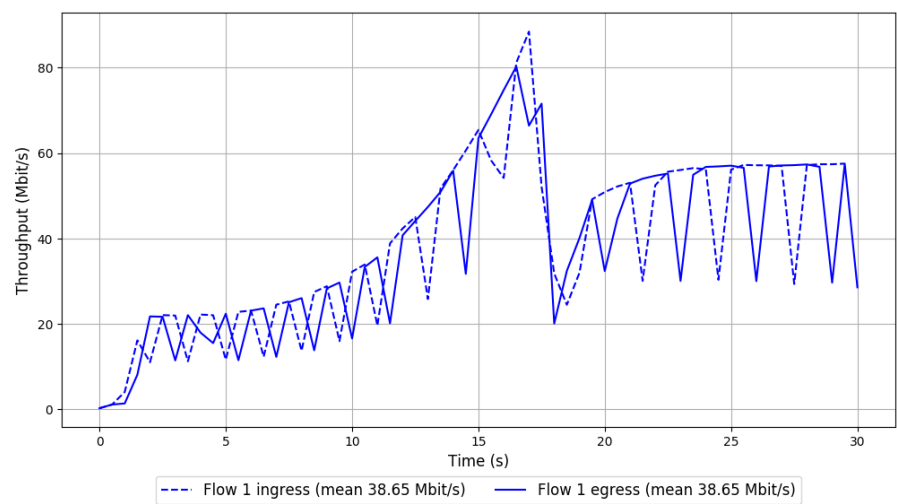
-- Flow 1:

Average throughput: 38.65 Mbit/s

95th percentile per-packet one-way delay: 165.194 ms

Loss rate: 0.00%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2017-12-05 18:26:20

End at: 2017-12-05 18:26:50

Below is generated by plot.py at 2017-12-05 20:40:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 42.41 Mbit/s

95th percentile per-packet one-way delay: 142.678 ms

Loss rate: 0.02%

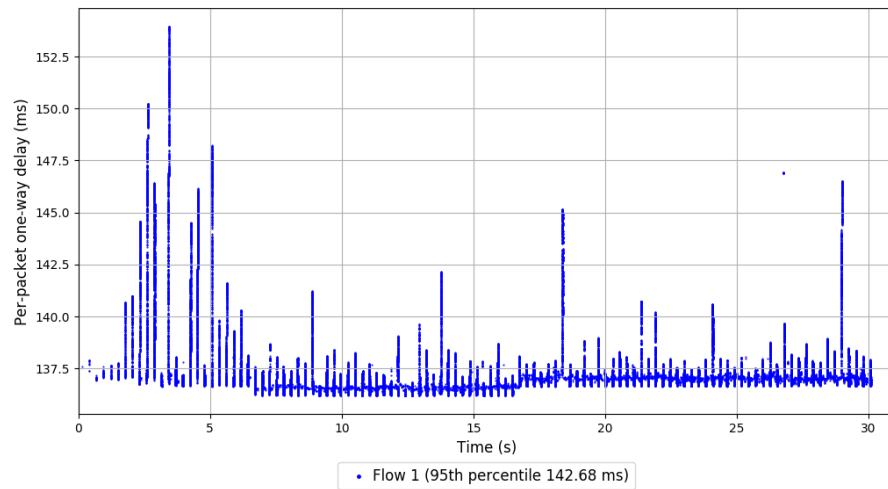
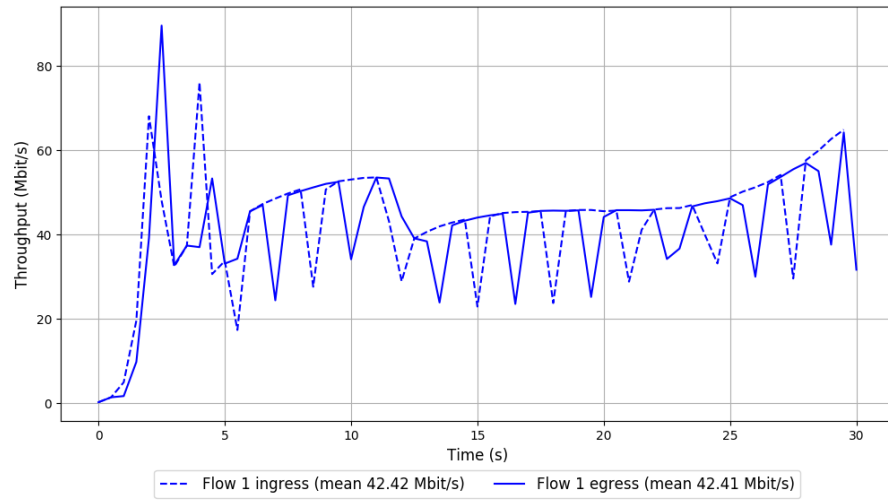
-- Flow 1:

Average throughput: 42.41 Mbit/s

95th percentile per-packet one-way delay: 142.678 ms

Loss rate: 0.02%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2017-12-05 18:37:46

End at: 2017-12-05 18:38:17

Below is generated by plot.py at 2017-12-05 20:40:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 61.21 Mbit/s

95th percentile per-packet one-way delay: 144.236 ms

Loss rate: 0.00%

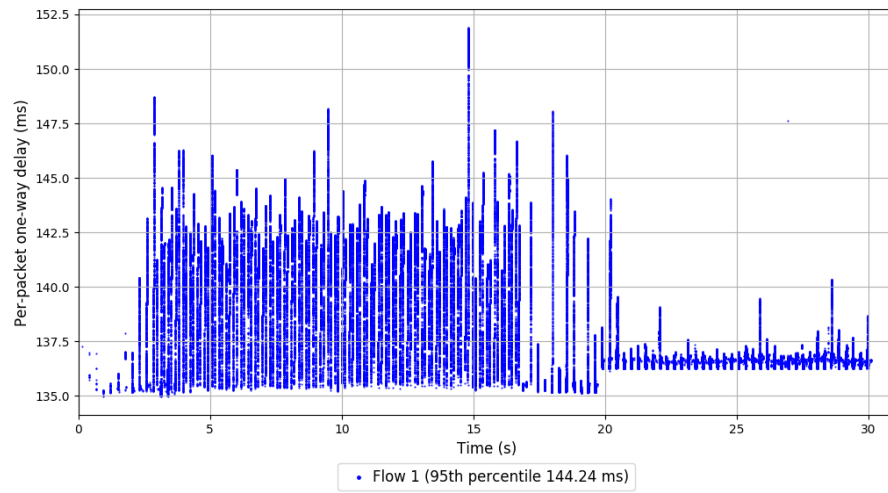
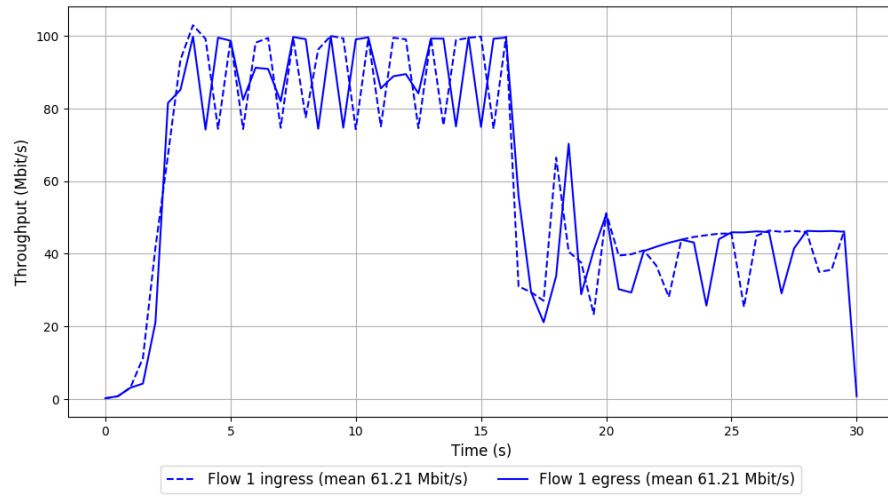
-- Flow 1:

Average throughput: 61.21 Mbit/s

95th percentile per-packet one-way delay: 144.236 ms

Loss rate: 0.00%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2017-12-05 18:48:58

End at: 2017-12-05 18:49:28

Below is generated by plot.py at 2017-12-05 20:40:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 42.18 Mbit/s

95th percentile per-packet one-way delay: 140.985 ms

Loss rate: 0.00%

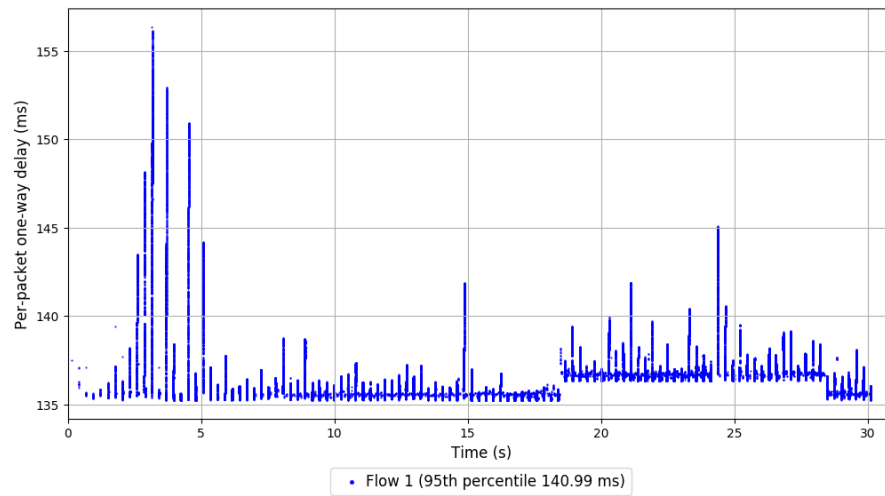
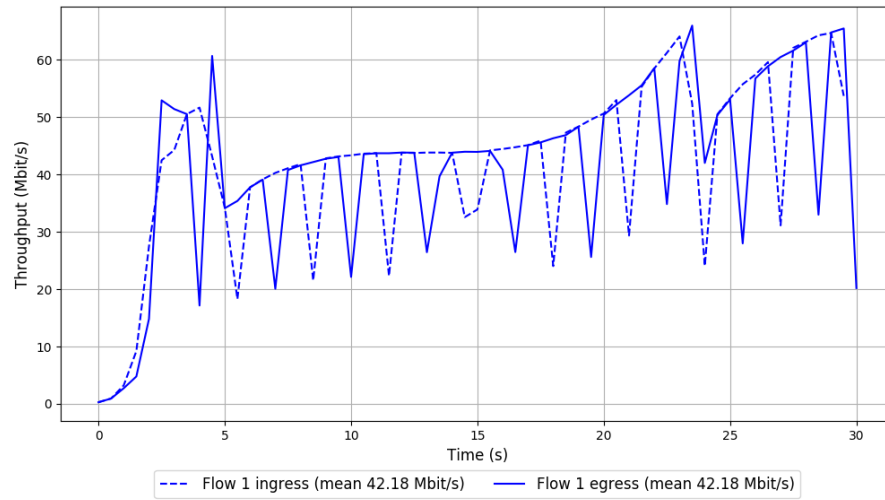
-- Flow 1:

Average throughput: 42.18 Mbit/s

95th percentile per-packet one-way delay: 140.985 ms

Loss rate: 0.00%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2017-12-05 19:00:14

End at: 2017-12-05 19:00:44

Below is generated by plot.py at 2017-12-05 20:40:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 47.02 Mbit/s

95th percentile per-packet one-way delay: 144.459 ms

Loss rate: 0.02%

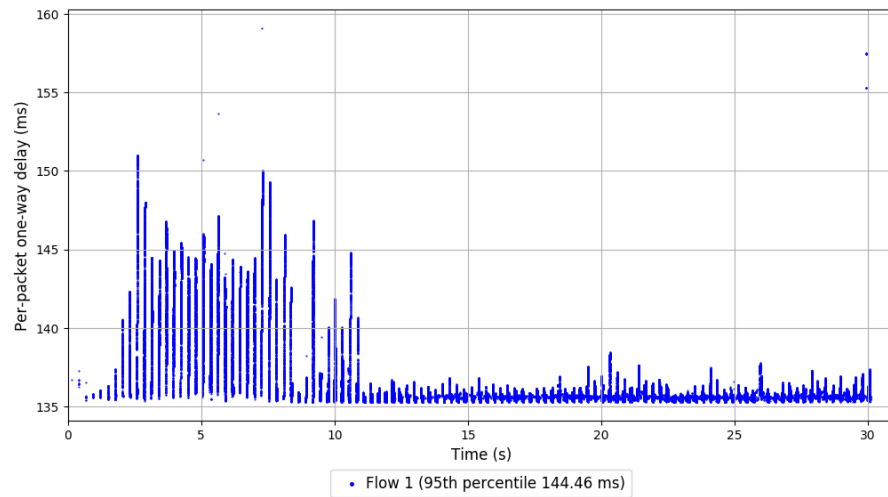
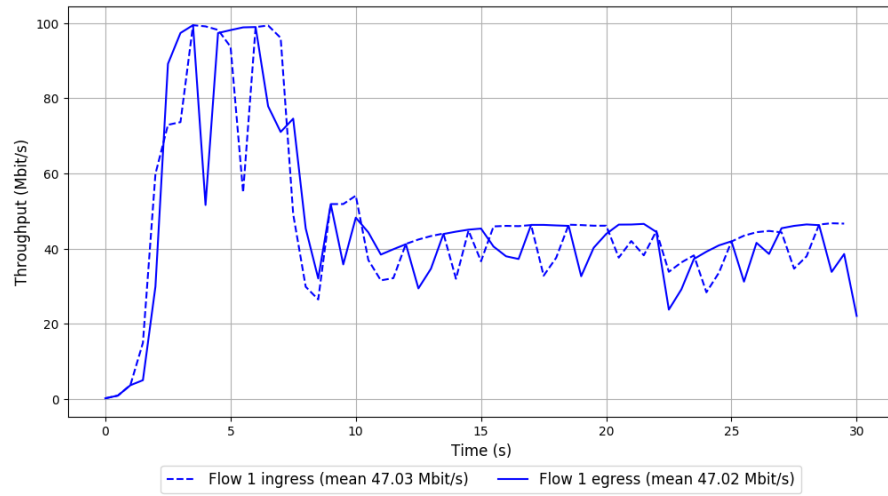
-- Flow 1:

Average throughput: 47.02 Mbit/s

95th percentile per-packet one-way delay: 144.459 ms

Loss rate: 0.02%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2017-12-05 19:11:29

End at: 2017-12-05 19:11:59

Below is generated by plot.py at 2017-12-05 20:40:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 38.01 Mbit/s

95th percentile per-packet one-way delay: 139.658 ms

Loss rate: 0.00%

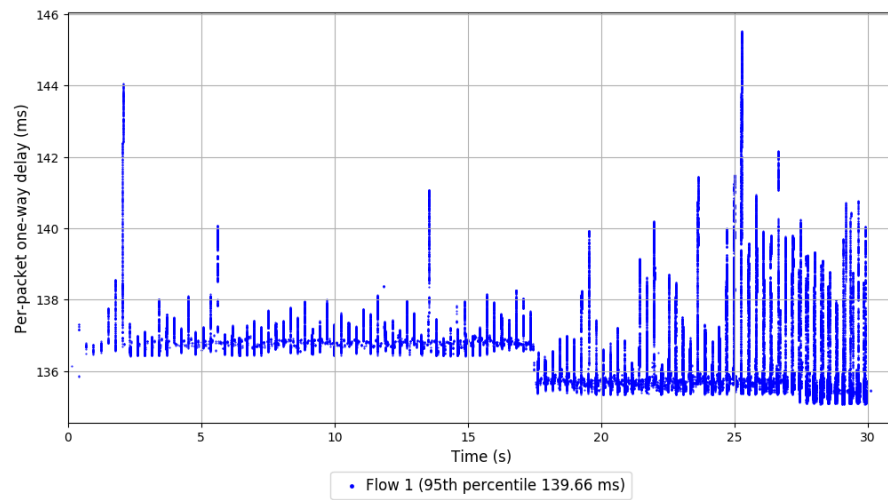
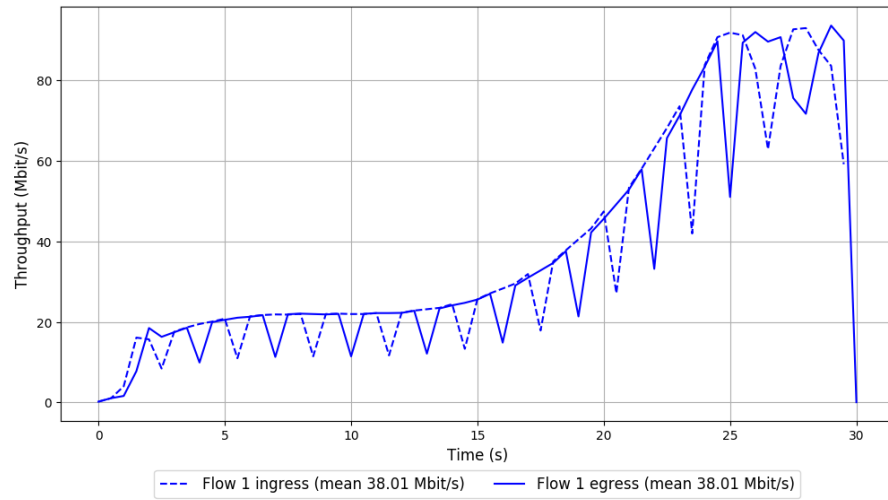
-- Flow 1:

Average throughput: 38.01 Mbit/s

95th percentile per-packet one-way delay: 139.658 ms

Loss rate: 0.00%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2017-12-05 19:22:44

End at: 2017-12-05 19:23:14

Below is generated by plot.py at 2017-12-05 20:41:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 52.15 Mbit/s

95th percentile per-packet one-way delay: 147.517 ms

Loss rate: 0.00%

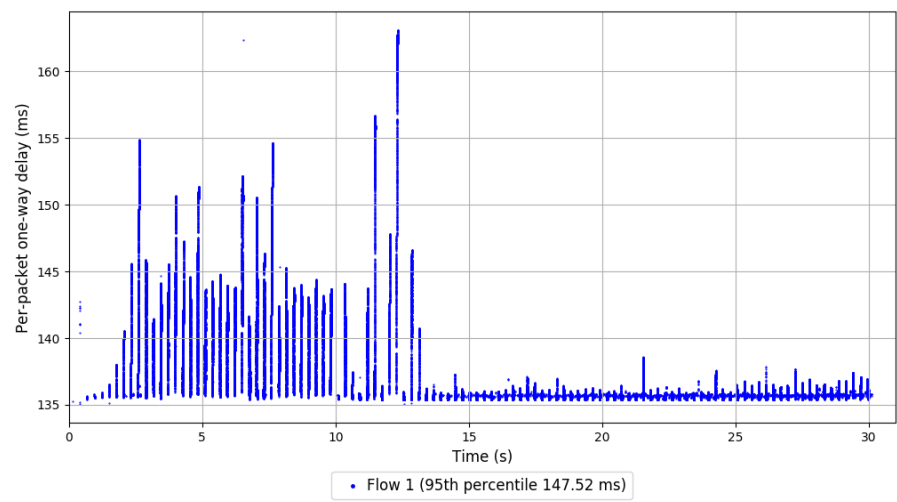
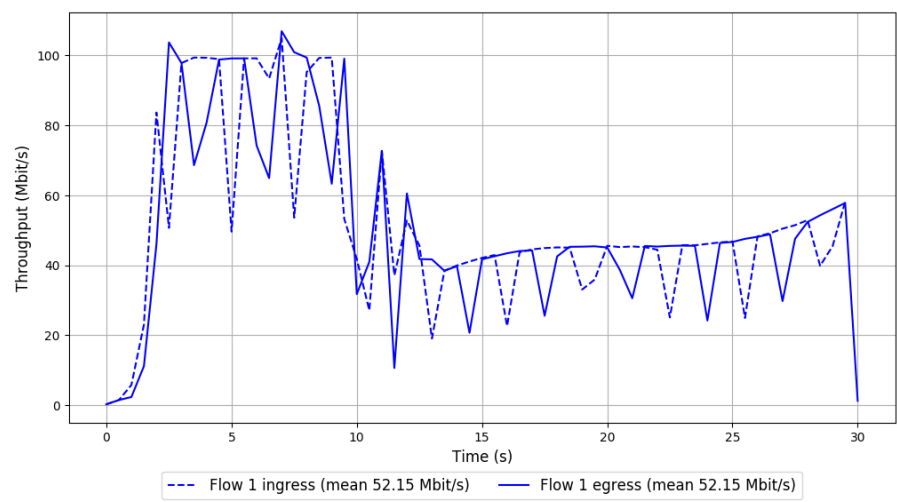
-- Flow 1:

Average throughput: 52.15 Mbit/s

95th percentile per-packet one-way delay: 147.517 ms

Loss rate: 0.00%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2017-12-05 19:34:11

End at: 2017-12-05 19:34:41

Below is generated by plot.py at 2017-12-05 20:41:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 43.93 Mbit/s

95th percentile per-packet one-way delay: 139.311 ms

Loss rate: 0.03%

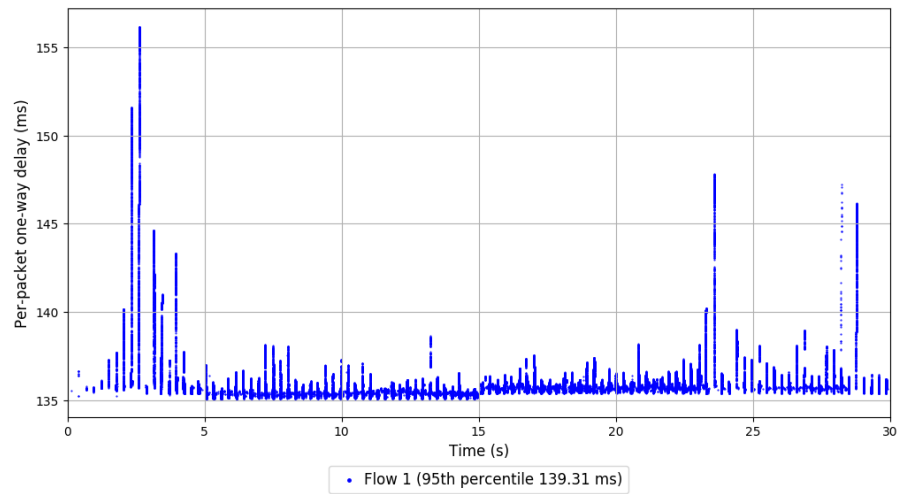
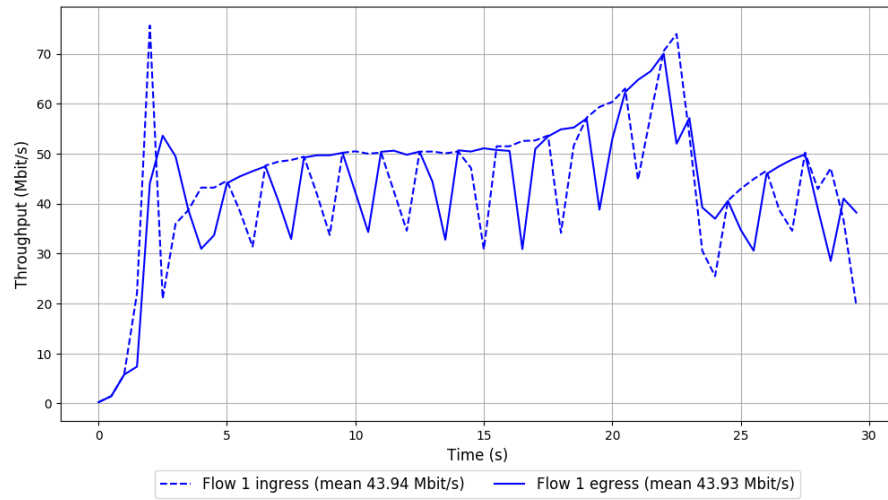
-- Flow 1:

Average throughput: 43.93 Mbit/s

95th percentile per-packet one-way delay: 139.311 ms

Loss rate: 0.03%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2017-12-05 19:45:23

End at: 2017-12-05 19:45:53

Below is generated by plot.py at 2017-12-05 20:41:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 49.84 Mbit/s

95th percentile per-packet one-way delay: 145.190 ms

Loss rate: 0.01%

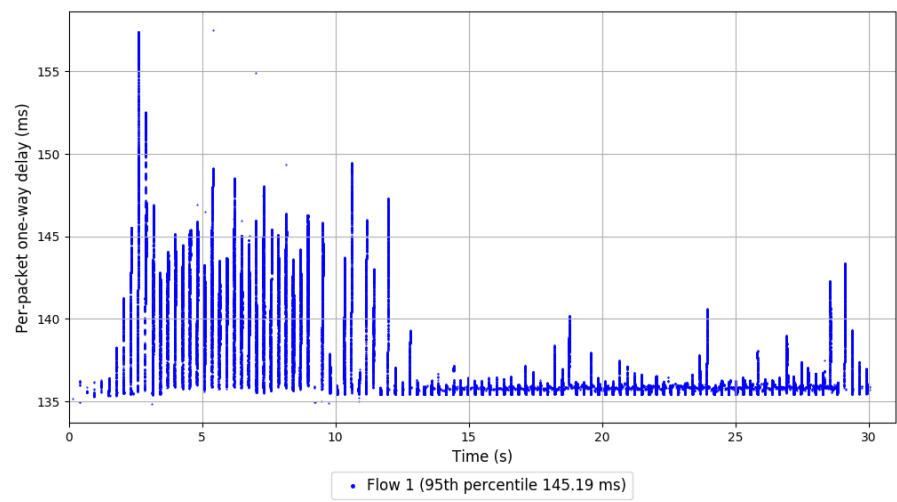
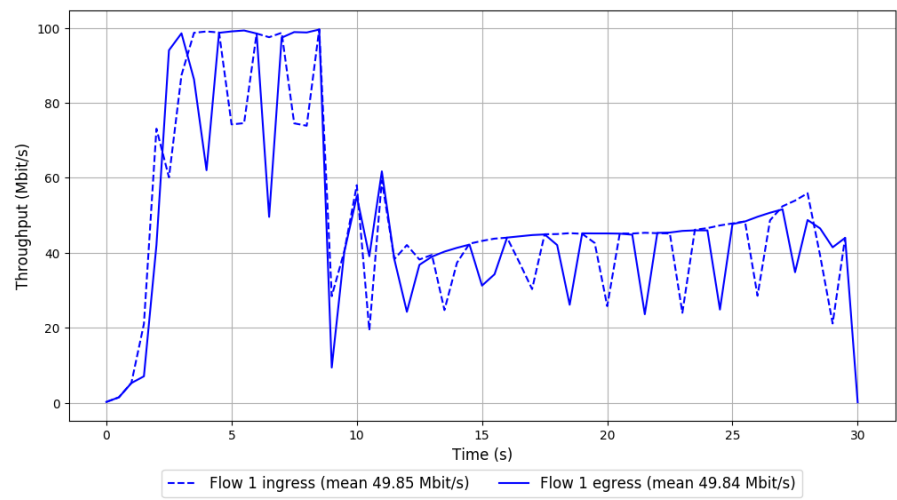
-- Flow 1:

Average throughput: 49.84 Mbit/s

95th percentile per-packet one-way delay: 145.190 ms

Loss rate: 0.01%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2017-12-05 19:57:04

End at: 2017-12-05 19:57:35

Below is generated by plot.py at 2017-12-05 20:41:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 47.17 Mbit/s

95th percentile per-packet one-way delay: 143.594 ms

Loss rate: 0.01%

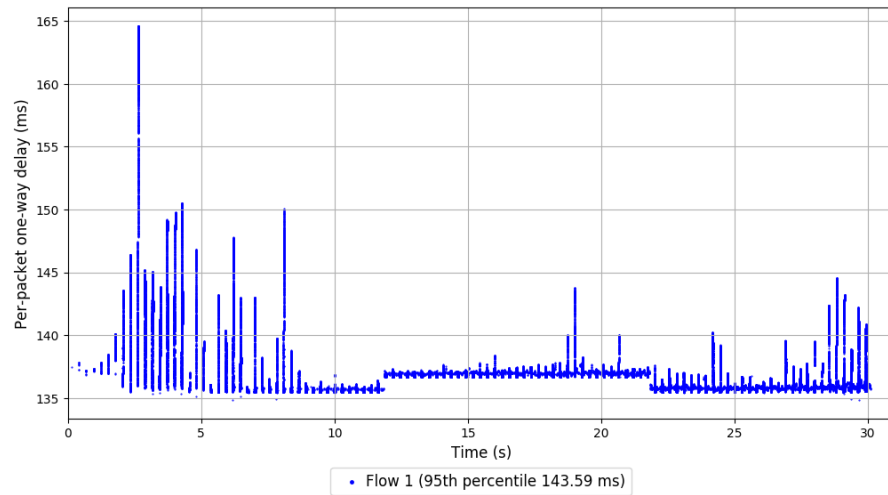
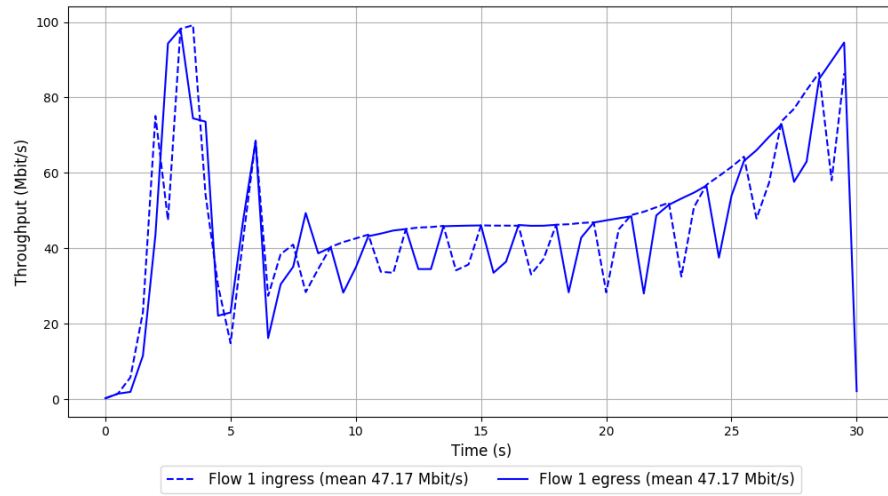
-- Flow 1:

Average throughput: 47.17 Mbit/s

95th percentile per-packet one-way delay: 143.594 ms

Loss rate: 0.01%

Run 10: Report of TCP Cubic — Data Link

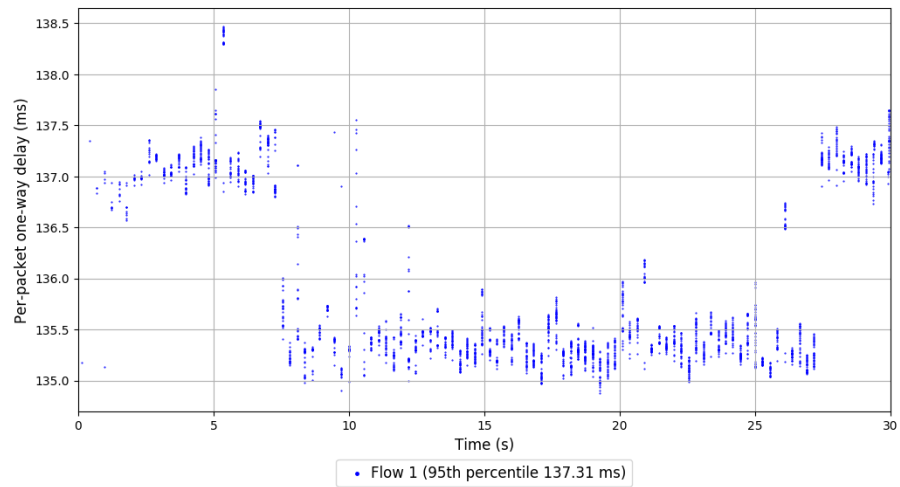
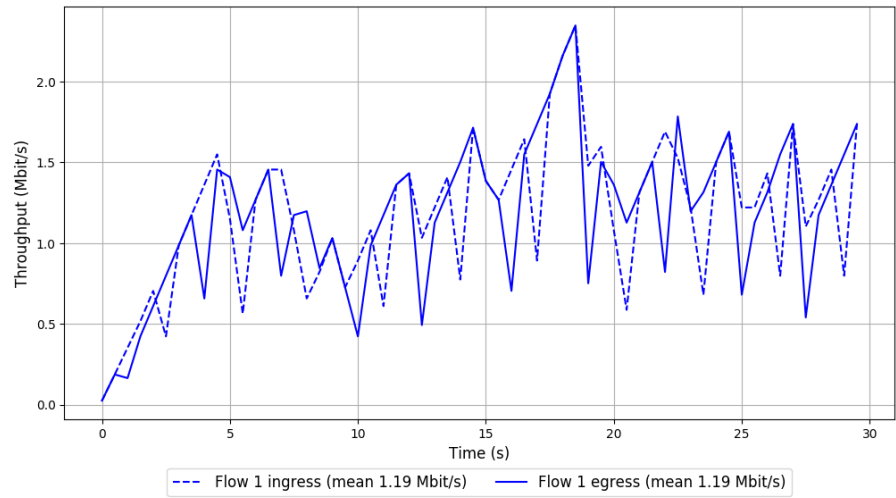


```
Run 1: Statistics of LEDBAT

Start at: 2017-12-05 18:17:59
End at: 2017-12-05 18:18:29

# Below is generated by plot.py at 2017-12-05 20:41:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.19 Mbit/s
95th percentile per-packet one-way delay: 137.311 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 1.19 Mbit/s
95th percentile per-packet one-way delay: 137.311 ms
Loss rate: 0.03%
```

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2017-12-05 18:29:10

End at: 2017-12-05 18:29:40

Below is generated by plot.py at 2017-12-05 20:41:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.16 Mbit/s

95th percentile per-packet one-way delay: 137.298 ms

Loss rate: 0.03%

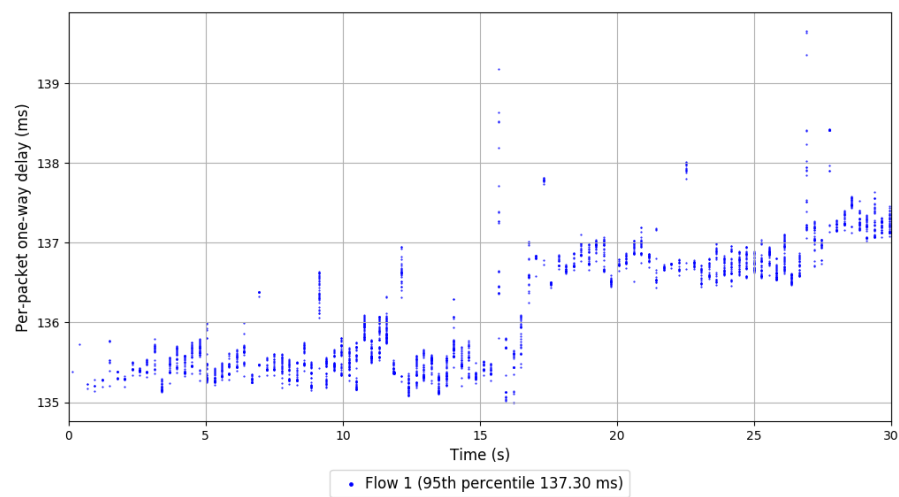
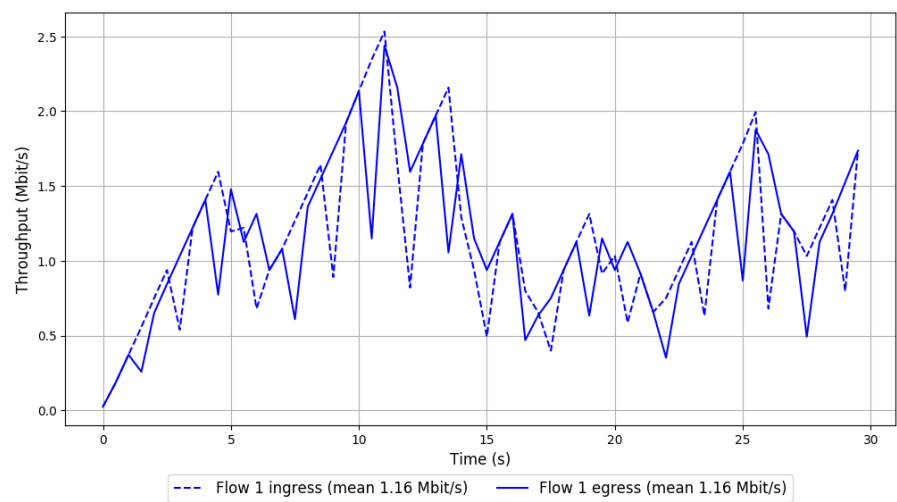
-- Flow 1:

Average throughput: 1.16 Mbit/s

95th percentile per-packet one-way delay: 137.298 ms

Loss rate: 0.03%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2017-12-05 18:40:22

End at: 2017-12-05 18:40:52

Below is generated by plot.py at 2017-12-05 20:41:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.39 Mbit/s

95th percentile per-packet one-way delay: 137.215 ms

Loss rate: 0.37%

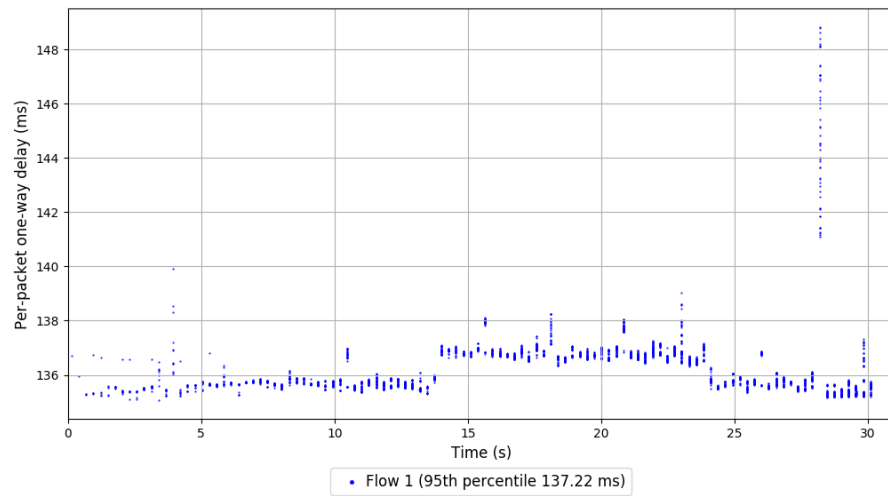
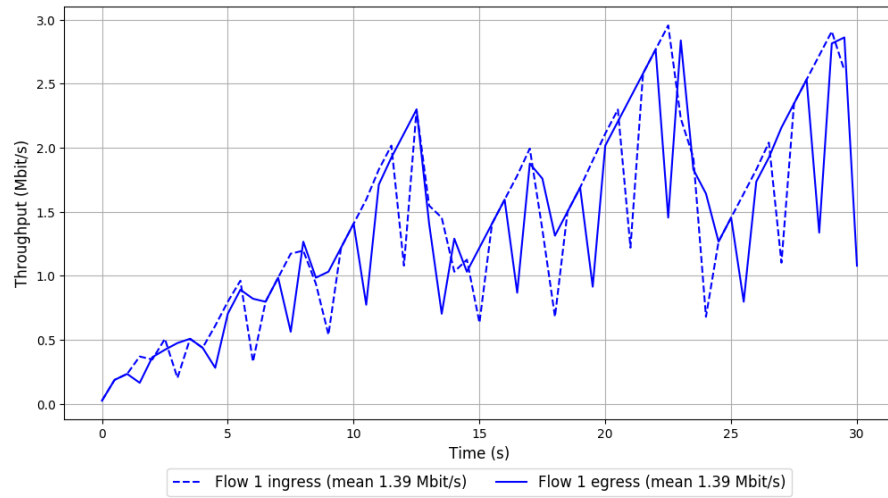
-- Flow 1:

Average throughput: 1.39 Mbit/s

95th percentile per-packet one-way delay: 137.215 ms

Loss rate: 0.37%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2017-12-05 18:51:39

End at: 2017-12-05 18:52:09

Below is generated by plot.py at 2017-12-05 20:41:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.11 Mbit/s

95th percentile per-packet one-way delay: 137.381 ms

Loss rate: 0.56%

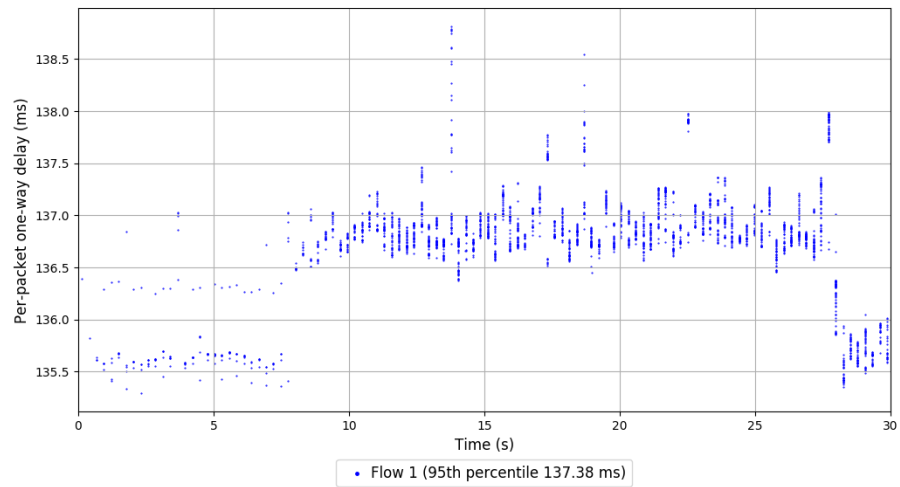
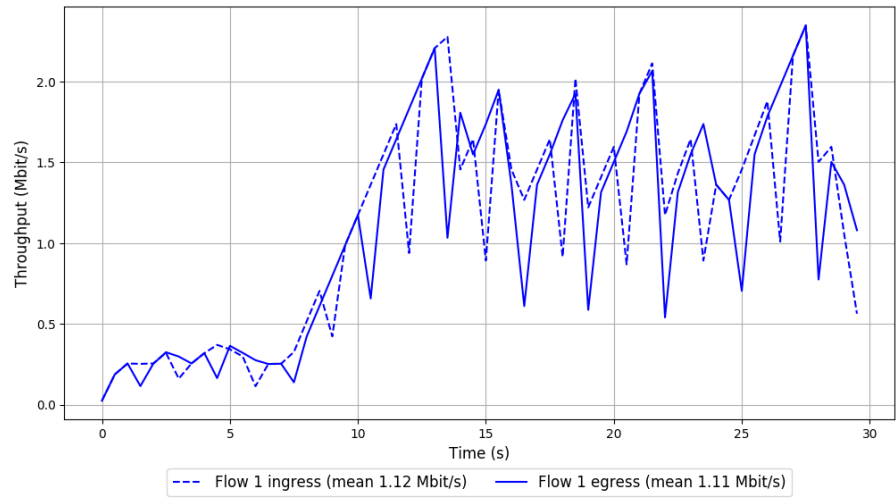
-- Flow 1:

Average throughput: 1.11 Mbit/s

95th percentile per-packet one-way delay: 137.381 ms

Loss rate: 0.56%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2017-12-05 19:02:48

End at: 2017-12-05 19:03:18

Below is generated by plot.py at 2017-12-05 20:41:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.27 Mbit/s

95th percentile per-packet one-way delay: 137.550 ms

Loss rate: 0.40%

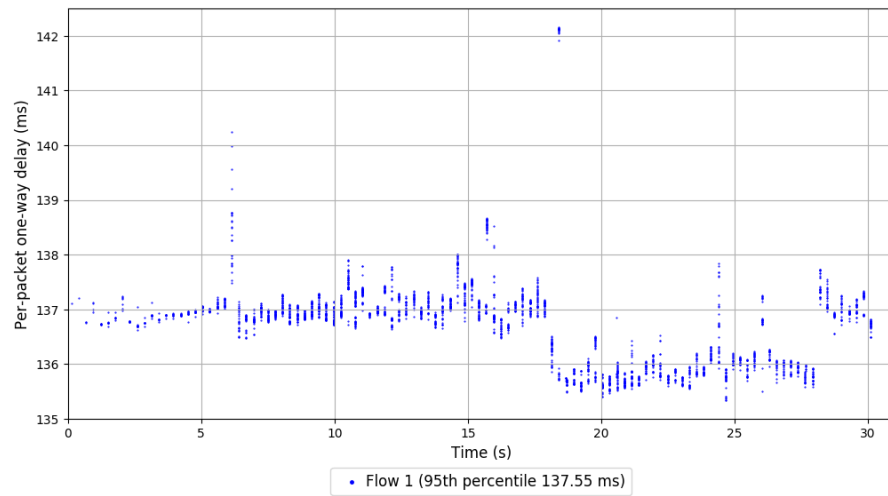
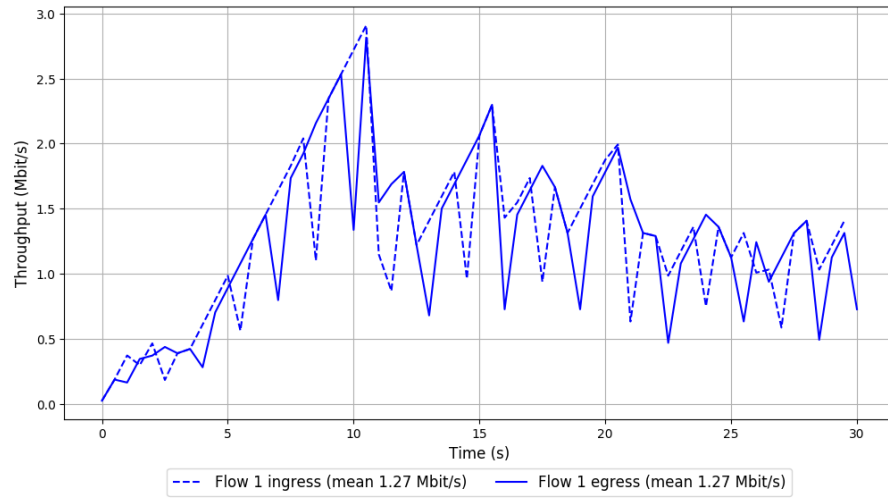
-- Flow 1:

Average throughput: 1.27 Mbit/s

95th percentile per-packet one-way delay: 137.550 ms

Loss rate: 0.40%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2017-12-05 19:14:03

End at: 2017-12-05 19:14:34

Below is generated by plot.py at 2017-12-05 20:41:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.40 Mbit/s

95th percentile per-packet one-way delay: 136.586 ms

Loss rate: 0.20%

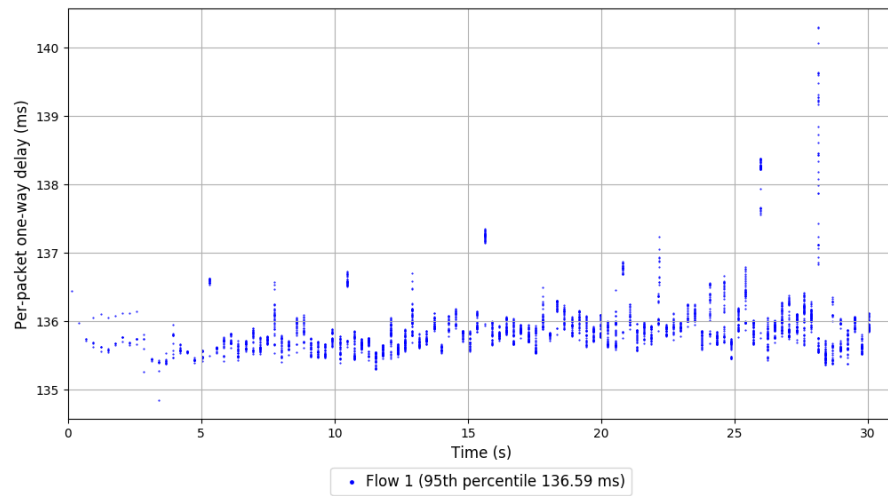
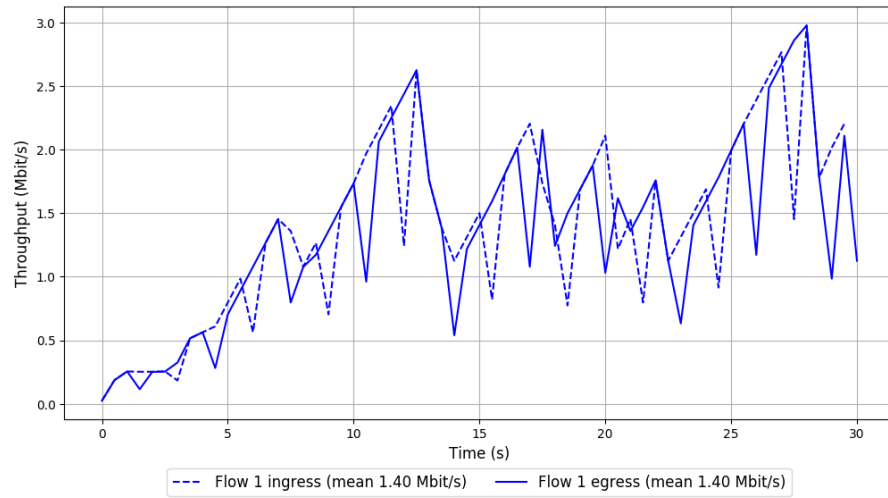
-- Flow 1:

Average throughput: 1.40 Mbit/s

95th percentile per-packet one-way delay: 136.586 ms

Loss rate: 0.20%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2017-12-05 19:25:39

End at: 2017-12-05 19:26:09

Below is generated by plot.py at 2017-12-05 20:41:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.00 Mbit/s

95th percentile per-packet one-way delay: 137.085 ms

Loss rate: 0.04%

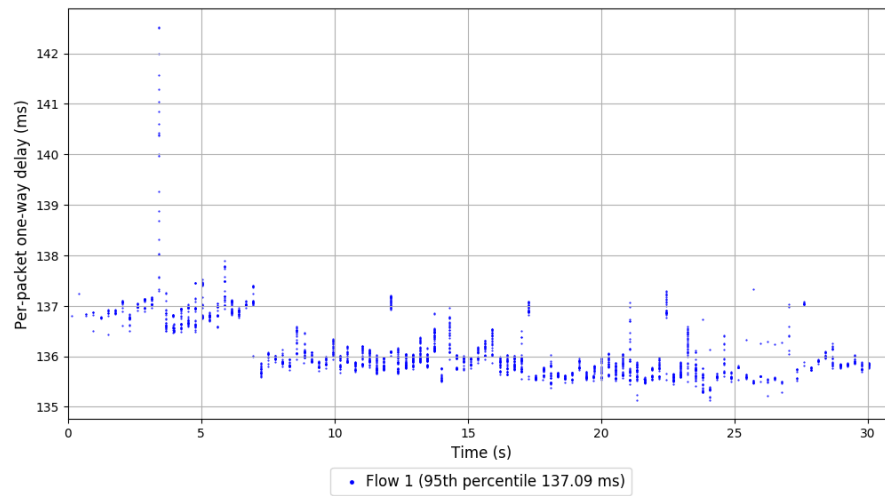
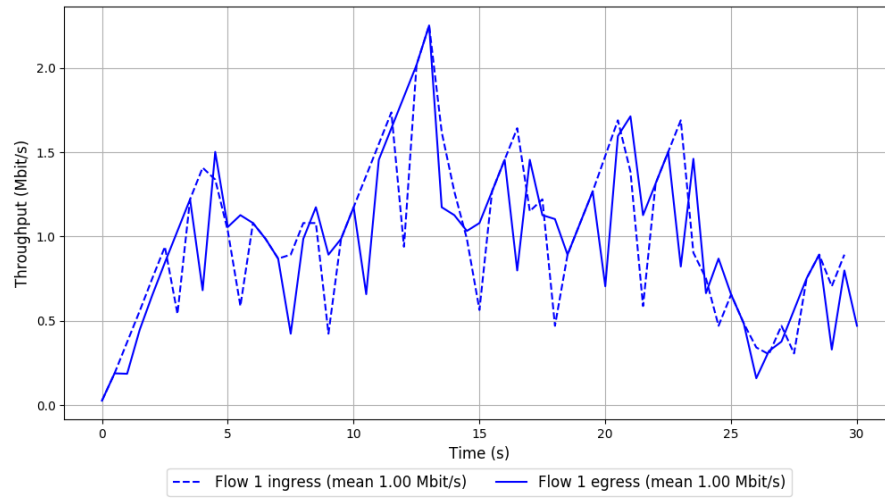
-- Flow 1:

Average throughput: 1.00 Mbit/s

95th percentile per-packet one-way delay: 137.085 ms

Loss rate: 0.04%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2017-12-05 19:36:46

End at: 2017-12-05 19:37:16

Below is generated by plot.py at 2017-12-05 20:41:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.07 Mbit/s

95th percentile per-packet one-way delay: 137.369 ms

Loss rate: 0.00%

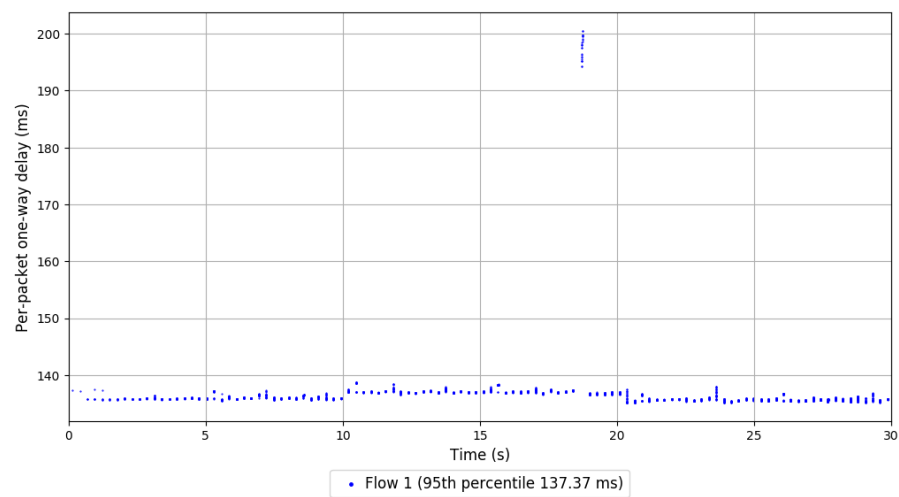
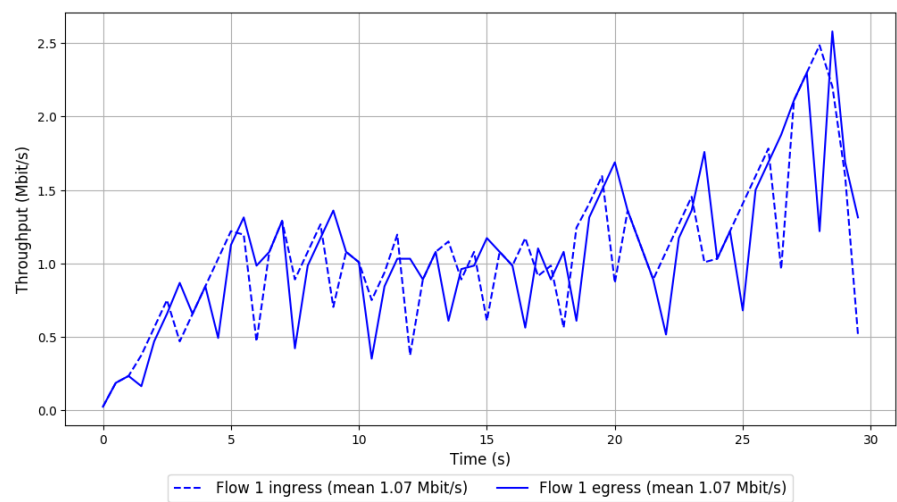
-- Flow 1:

Average throughput: 1.07 Mbit/s

95th percentile per-packet one-way delay: 137.369 ms

Loss rate: 0.00%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2017-12-05 19:48:17

End at: 2017-12-05 19:48:47

Below is generated by plot.py at 2017-12-05 20:41:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.16 Mbit/s

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

Loss rate: 0.20%

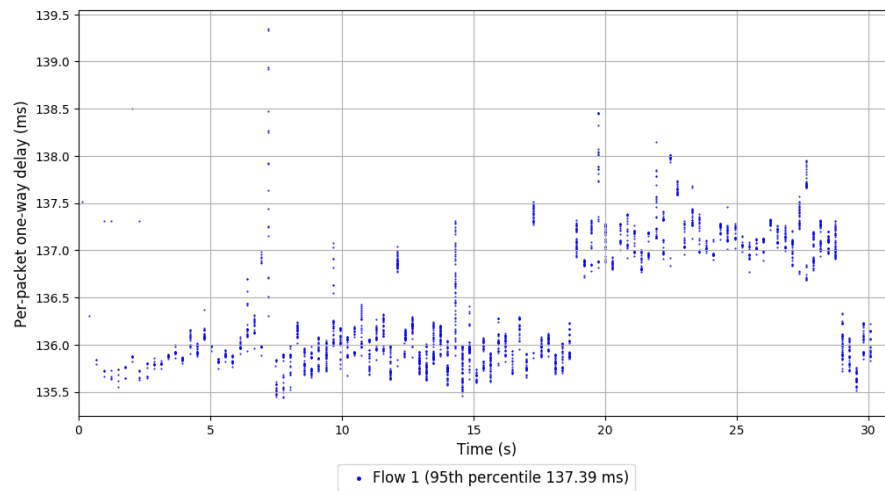
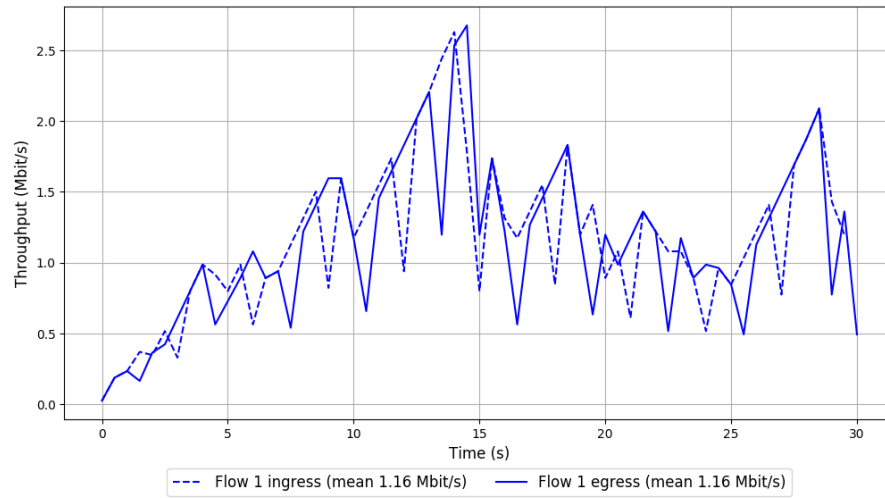
-- Flow 1:

Average throughput: 1.16 Mbit/s

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

Loss rate: 0.20%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2017-12-05 20:00:00

End at: 2017-12-05 20:00:30

Below is generated by plot.py at 2017-12-05 20:41:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.31 Mbit/s

95th percentile per-packet one-way delay: 137.530 ms

Loss rate: 0.00%

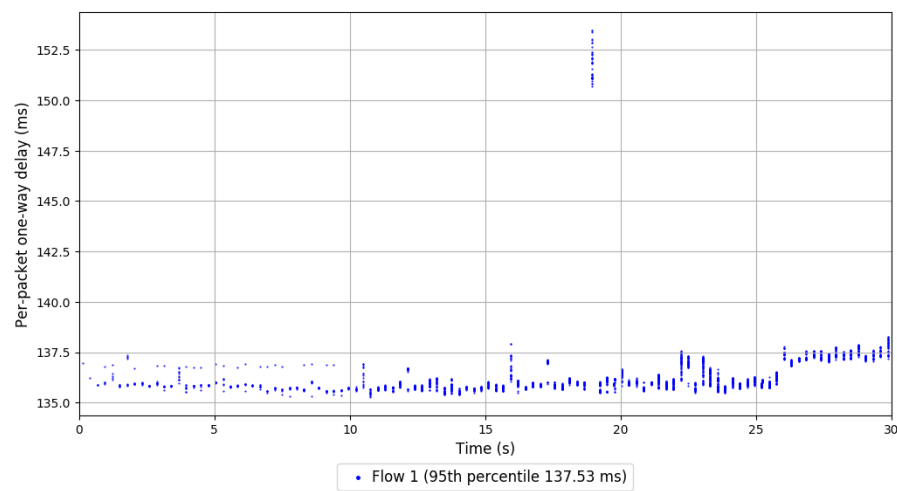
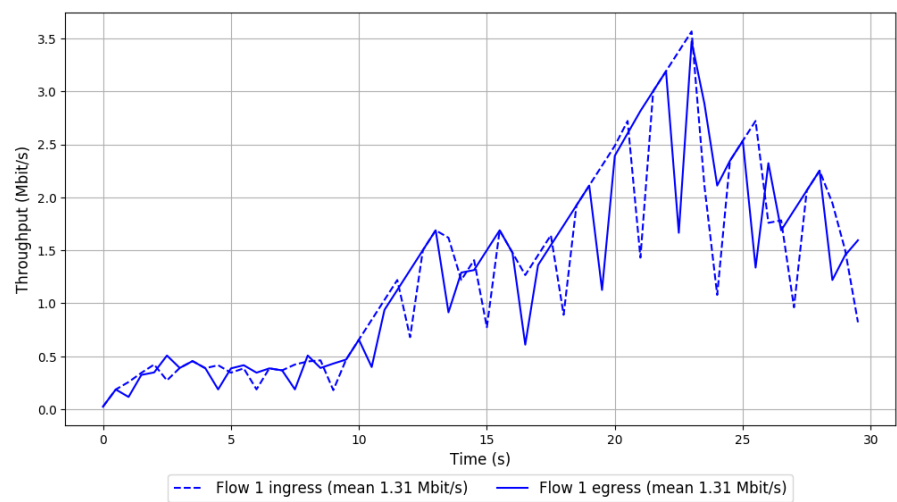
-- Flow 1:

Average throughput: 1.31 Mbit/s

95th percentile per-packet one-way delay: 137.530 ms

Loss rate: 0.00%

Run 10: Report of LEDBAT — Data Link

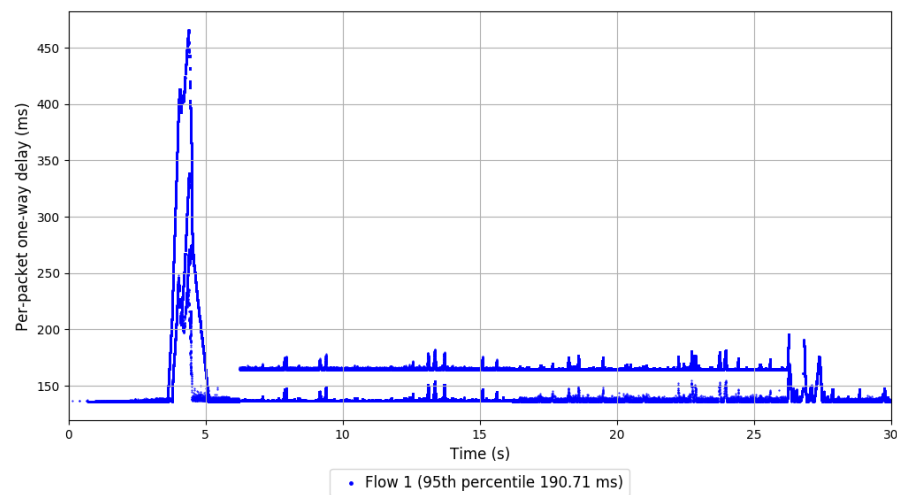
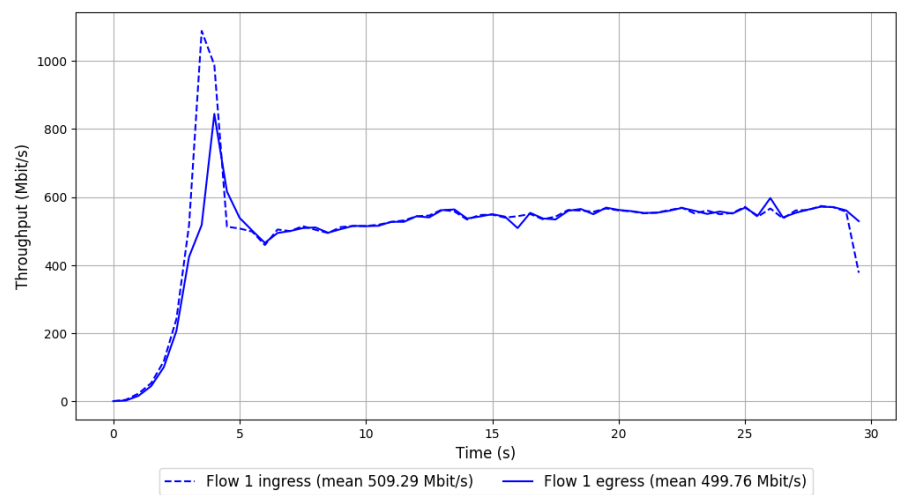


```
Run 1: Statistics of PCC

Start at: 2017-12-05 18:16:10
End at: 2017-12-05 18:16:40

# Below is generated by plot.py at 2017-12-05 20:49:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 499.76 Mbit/s
95th percentile per-packet one-way delay: 190.707 ms
Loss rate: 1.99%
-- Flow 1:
Average throughput: 499.76 Mbit/s
95th percentile per-packet one-way delay: 190.707 ms
Loss rate: 1.99%
```

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2017-12-05 18:27:05

End at: 2017-12-05 18:27:35

Below is generated by plot.py at 2017-12-05 20:49:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 527.24 Mbit/s

95th percentile per-packet one-way delay: 266.678 ms

Loss rate: 3.36%

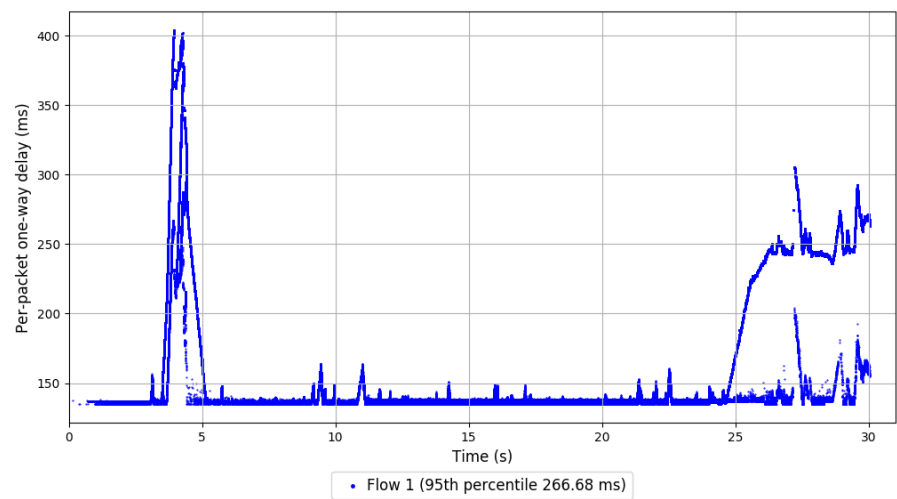
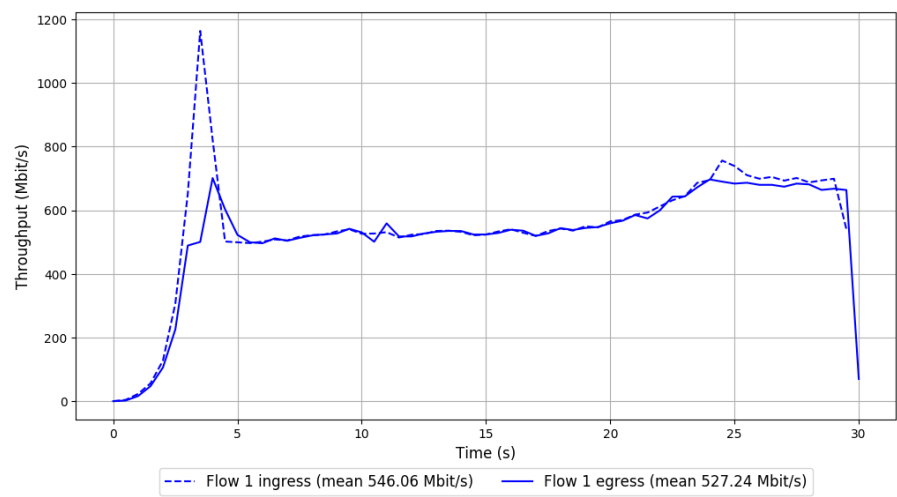
-- Flow 1:

Average throughput: 527.24 Mbit/s

95th percentile per-packet one-way delay: 266.678 ms

Loss rate: 3.36%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2017-12-05 18:38:33

End at: 2017-12-05 18:39:03

Below is generated by plot.py at 2017-12-05 20:49:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 516.05 Mbit/s

95th percentile per-packet one-way delay: 175.830 ms

Loss rate: 2.16%

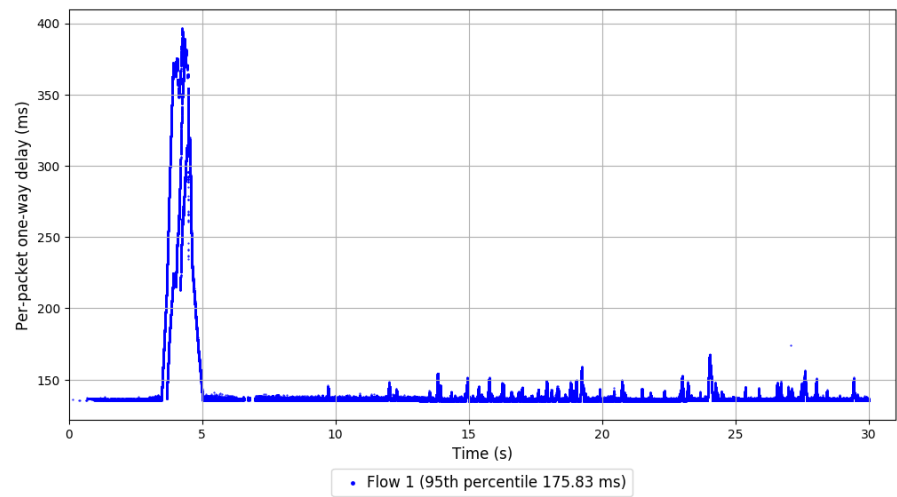
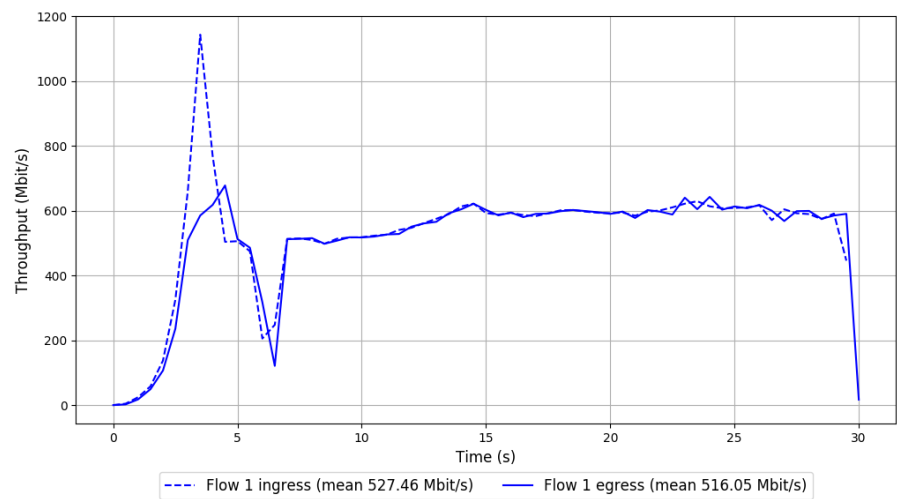
-- Flow 1:

Average throughput: 516.05 Mbit/s

95th percentile per-packet one-way delay: 175.830 ms

Loss rate: 2.16%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2017-12-05 18:49:43

End at: 2017-12-05 18:50:13

Below is generated by plot.py at 2017-12-05 20:49:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 532.12 Mbit/s

95th percentile per-packet one-way delay: 179.202 ms

Loss rate: 1.08%

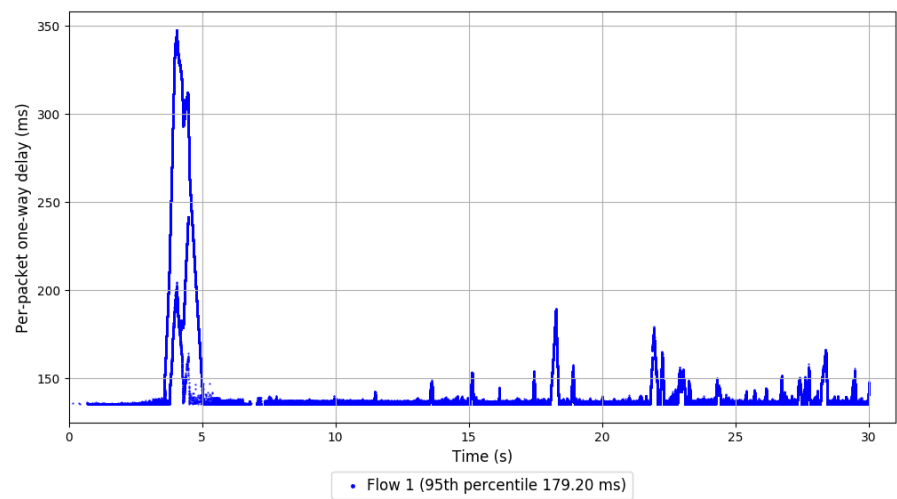
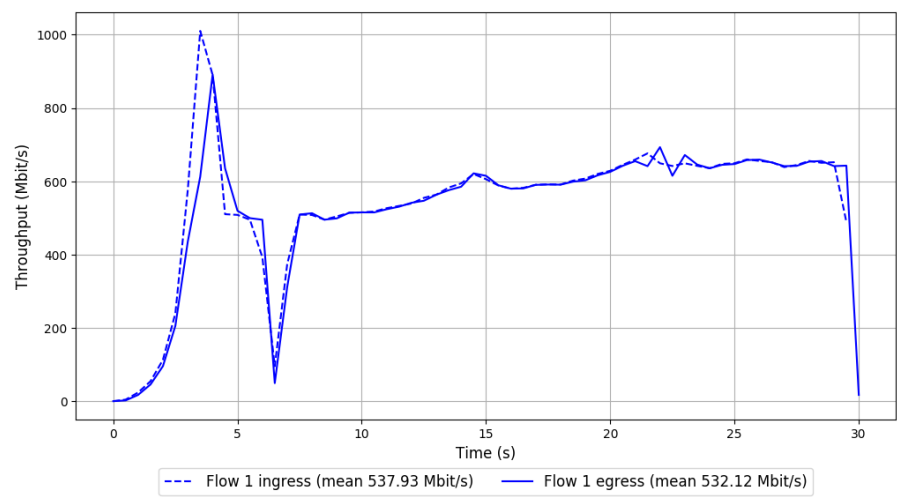
-- Flow 1:

Average throughput: 532.12 Mbit/s

95th percentile per-packet one-way delay: 179.202 ms

Loss rate: 1.08%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2017-12-05 19:01:00

End at: 2017-12-05 19:01:30

Below is generated by plot.py at 2017-12-05 20:49:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 493.51 Mbit/s

95th percentile per-packet one-way delay: 184.095 ms

Loss rate: 1.22%

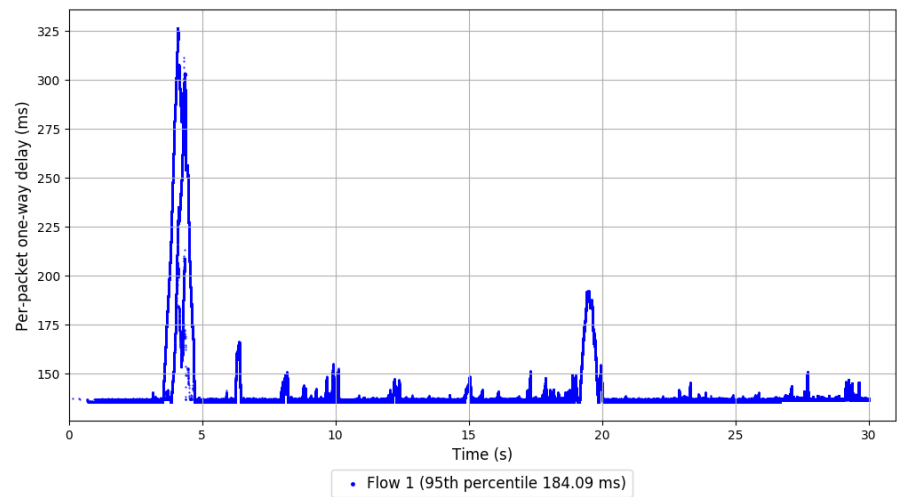
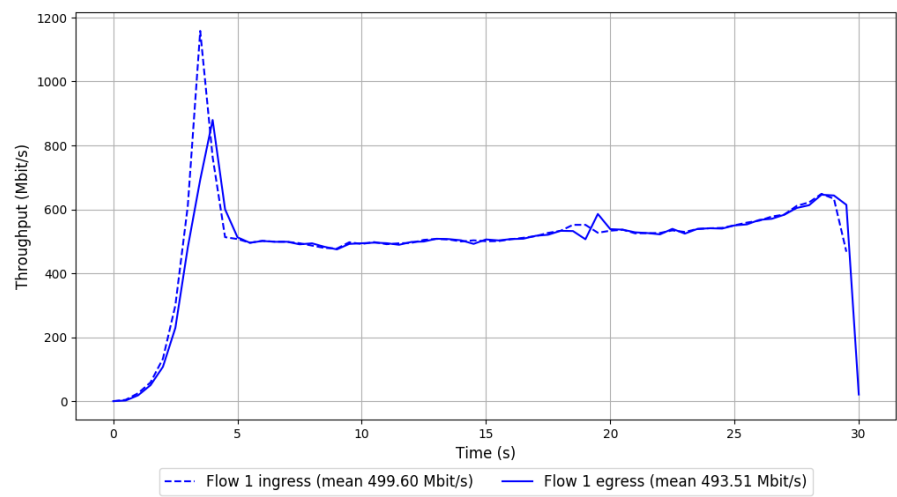
-- Flow 1:

Average throughput: 493.51 Mbit/s

95th percentile per-packet one-way delay: 184.095 ms

Loss rate: 1.22%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2017-12-05 19:12:14

End at: 2017-12-05 19:12:44

Below is generated by plot.py at 2017-12-05 20:50:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 523.15 Mbit/s

95th percentile per-packet one-way delay: 227.920 ms

Loss rate: 0.75%

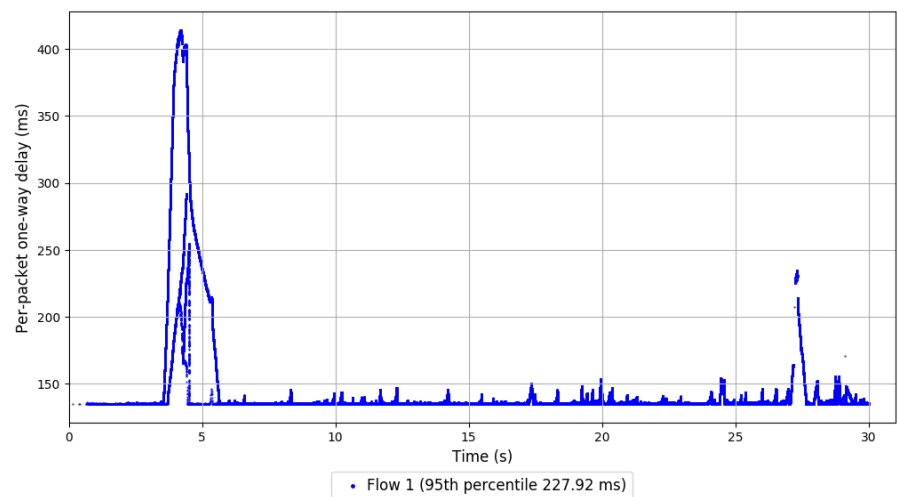
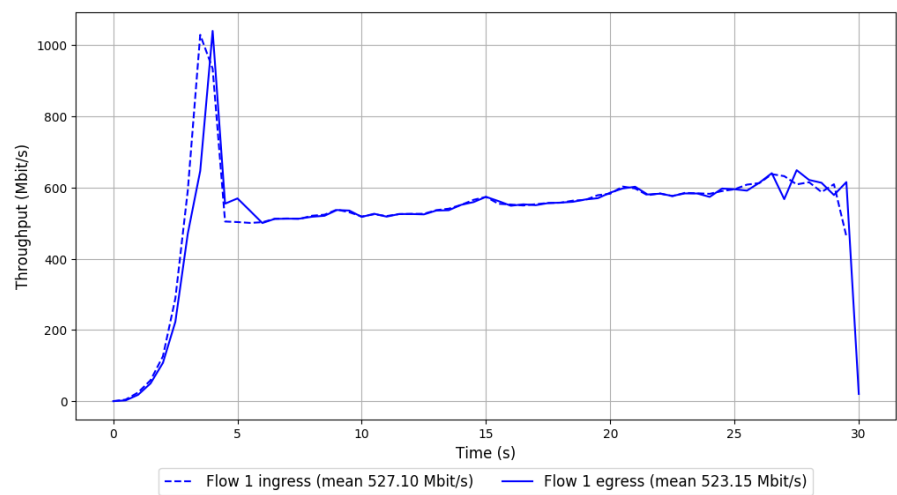
-- Flow 1:

Average throughput: 523.15 Mbit/s

95th percentile per-packet one-way delay: 227.920 ms

Loss rate: 0.75%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2017-12-05 19:23:30

End at: 2017-12-05 19:24:00

Below is generated by plot.py at 2017-12-05 20:50:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 517.55 Mbit/s

95th percentile per-packet one-way delay: 270.309 ms

Loss rate: 3.34%

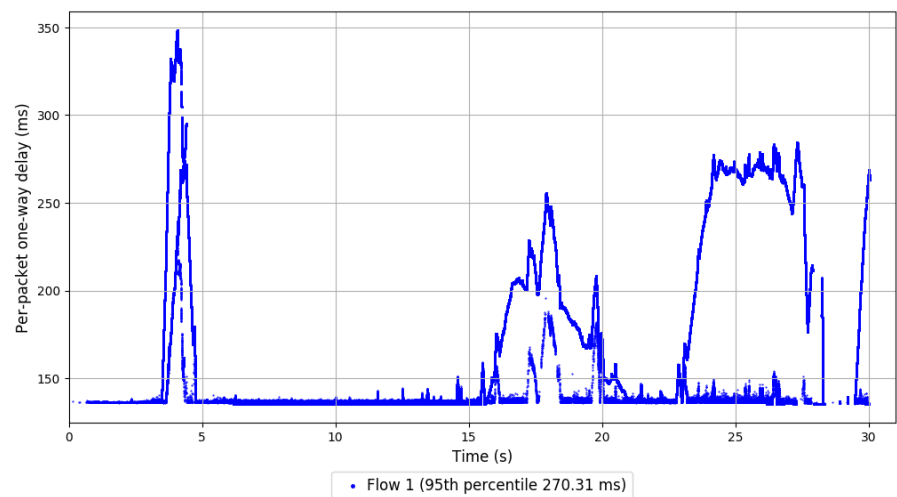
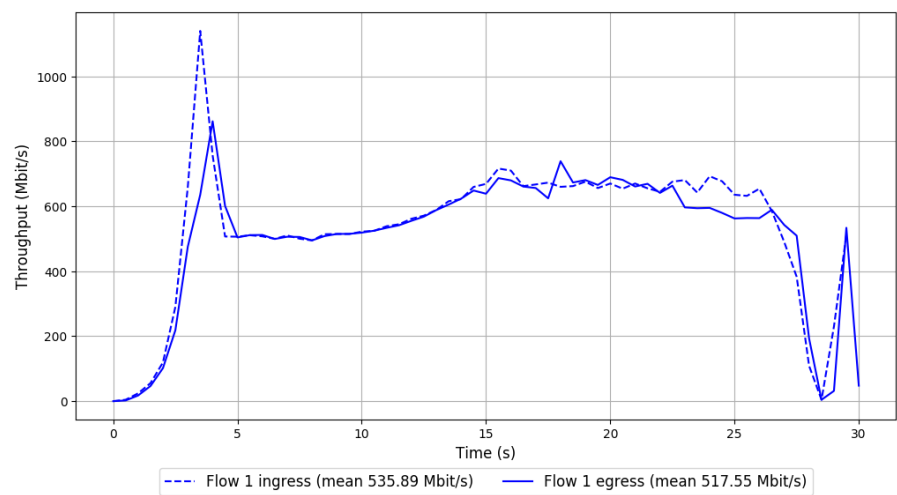
-- Flow 1:

Average throughput: 517.55 Mbit/s

95th percentile per-packet one-way delay: 270.309 ms

Loss rate: 3.34%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2017-12-05 19:34:57

End at: 2017-12-05 19:35:27

Below is generated by plot.py at 2017-12-05 20:50:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 502.74 Mbit/s

95th percentile per-packet one-way delay: 187.490 ms

Loss rate: 1.30%

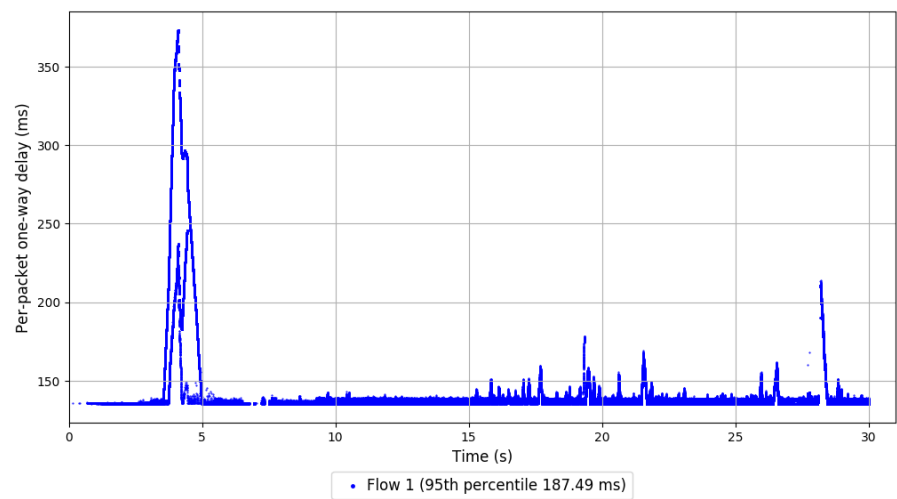
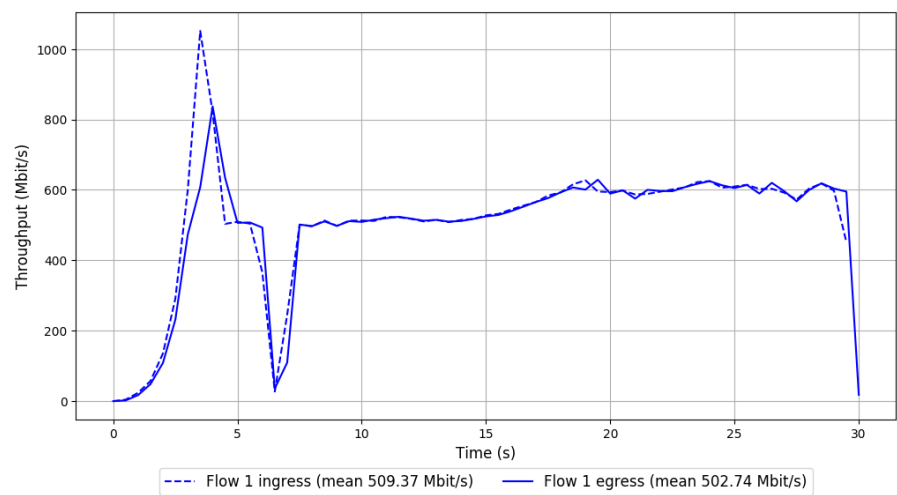
-- Flow 1:

Average throughput: 502.74 Mbit/s

95th percentile per-packet one-way delay: 187.490 ms

Loss rate: 1.30%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2017-12-05 19:46:09

End at: 2017-12-05 19:46:39

Below is generated by plot.py at 2017-12-05 20:58:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 497.15 Mbit/s

95th percentile per-packet one-way delay: 174.613 ms

Loss rate: 1.66%

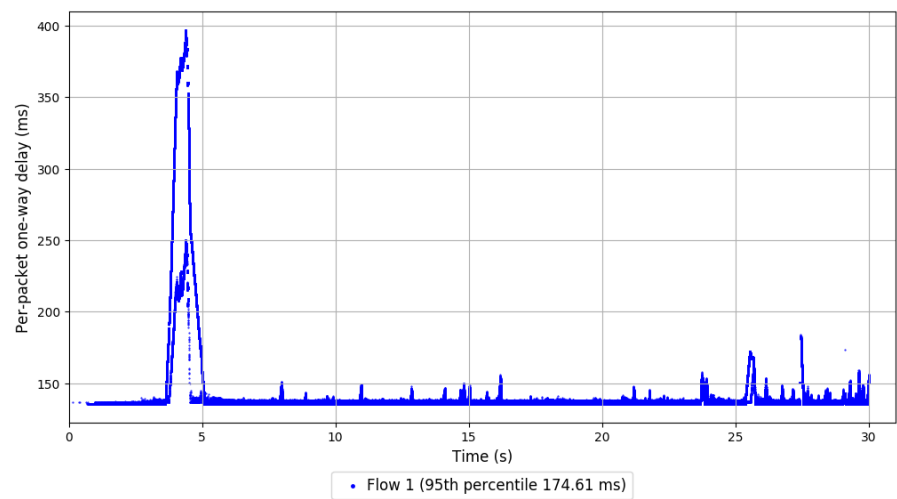
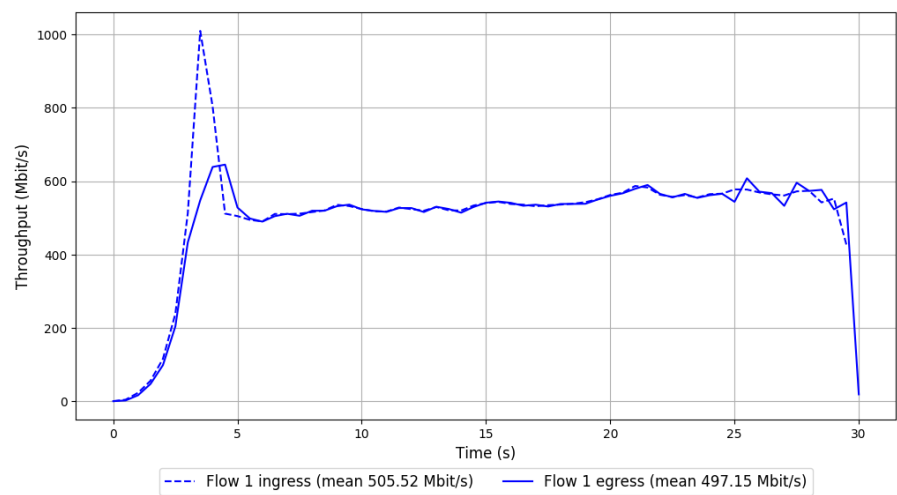
-- Flow 1:

Average throughput: 497.15 Mbit/s

95th percentile per-packet one-way delay: 174.613 ms

Loss rate: 1.66%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2017-12-05 19:57:50

End at: 2017-12-05 19:58:20

Below is generated by plot.py at 2017-12-05 20:59:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 549.44 Mbit/s

95th percentile per-packet one-way delay: 188.677 ms

Loss rate: 1.16%

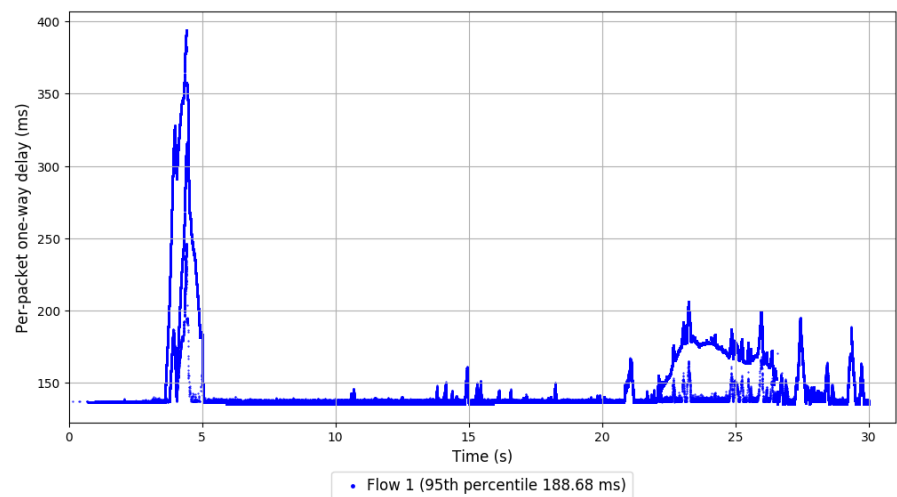
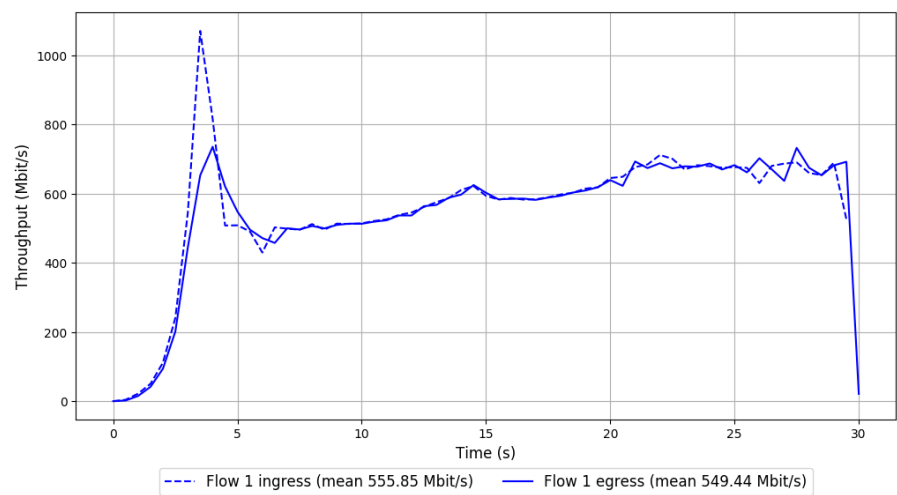
-- Flow 1:

Average throughput: 549.44 Mbit/s

95th percentile per-packet one-way delay: 188.677 ms

Loss rate: 1.16%

Run 10: Report of PCC — Data Link

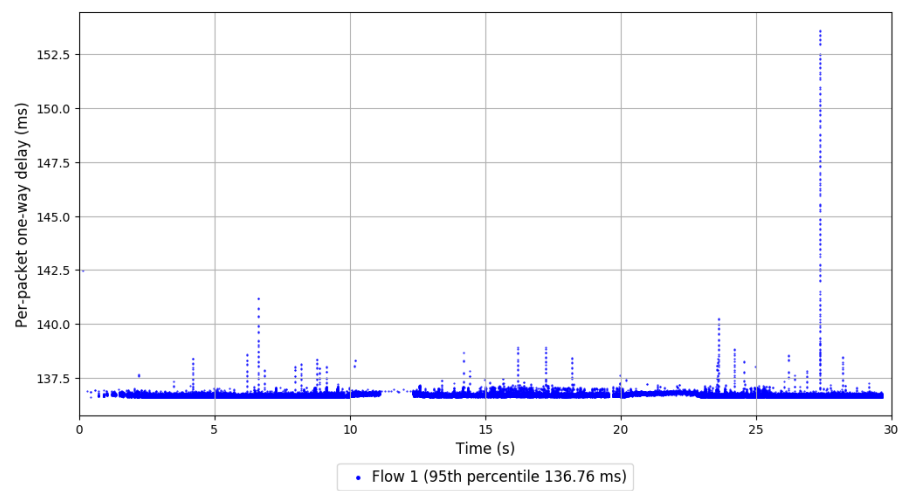
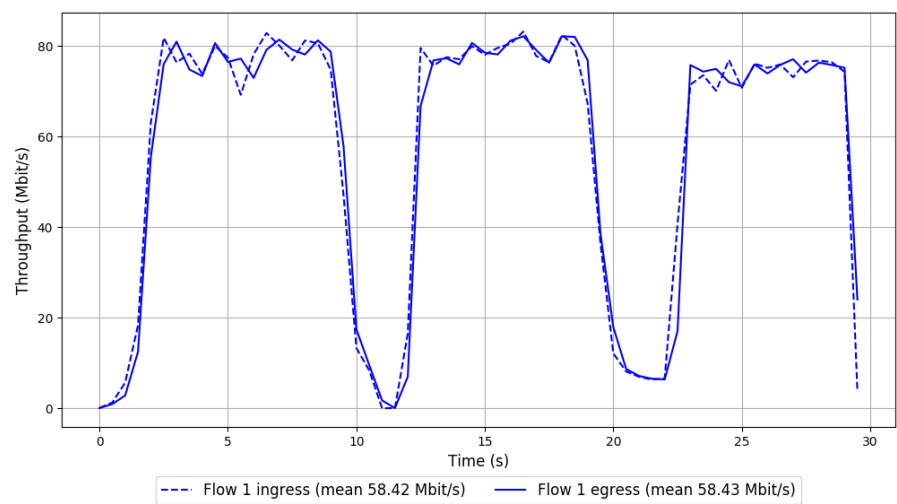


```
Run 1: Statistics of QUIC Cubic

Start at: 2017-12-05 18:13:56
End at: 2017-12-05 18:14:26

# Below is generated by plot.py at 2017-12-05 20:59:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 58.43 Mbit/s
95th percentile per-packet one-way delay: 136.758 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 58.43 Mbit/s
95th percentile per-packet one-way delay: 136.758 ms
Loss rate: 0.00%
```

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2017-12-05 18:24:52

End at: 2017-12-05 18:25:22

Below is generated by plot.py at 2017-12-05 20:59:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 49.67 Mbit/s

95th percentile per-packet one-way delay: 135.344 ms

Loss rate: 0.00%

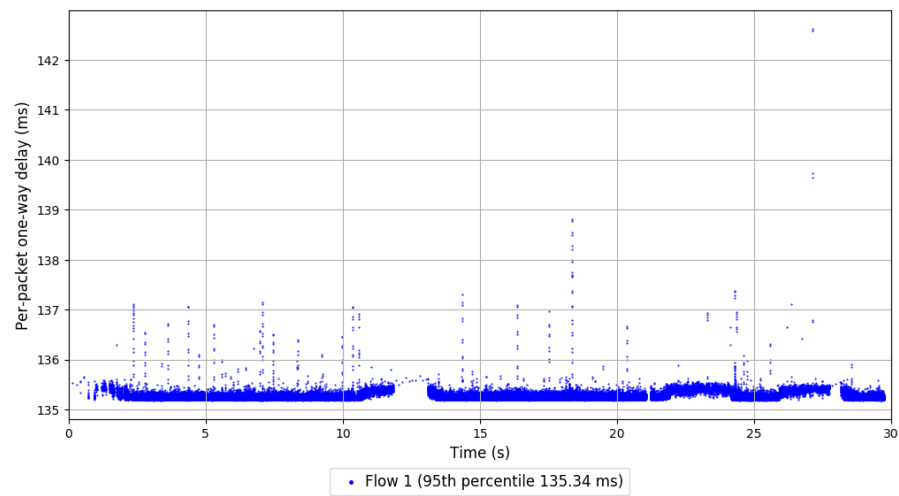
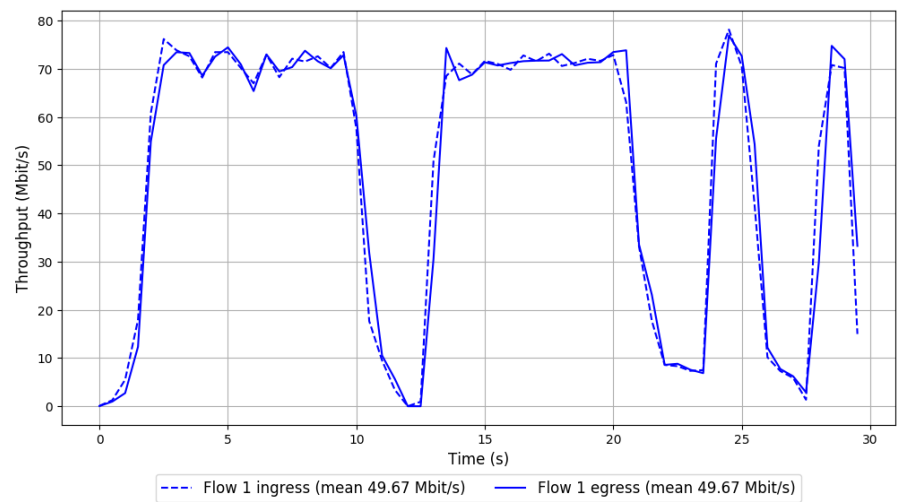
-- Flow 1:

Average throughput: 49.67 Mbit/s

95th percentile per-packet one-way delay: 135.344 ms

Loss rate: 0.00%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2017-12-05 18:36:09

End at: 2017-12-05 18:36:39

Below is generated by plot.py at 2017-12-05 20:59:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 66.03 Mbit/s

95th percentile per-packet one-way delay: 136.788 ms

Loss rate: 0.00%

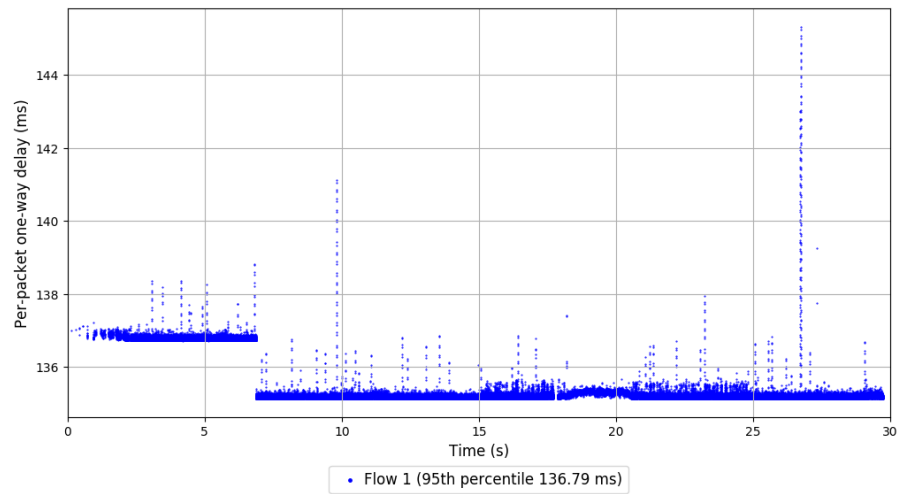
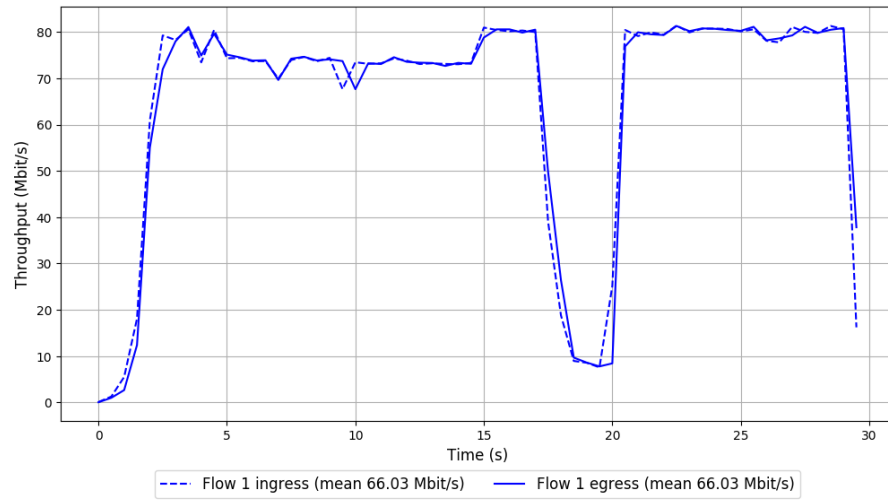
-- Flow 1:

Average throughput: 66.03 Mbit/s

95th percentile per-packet one-way delay: 136.788 ms

Loss rate: 0.00%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2017-12-05 18:47:22

End at: 2017-12-05 18:47:52

Below is generated by plot.py at 2017-12-05 20:59:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 51.42 Mbit/s

95th percentile per-packet one-way delay: 135.386 ms

Loss rate: 0.00%

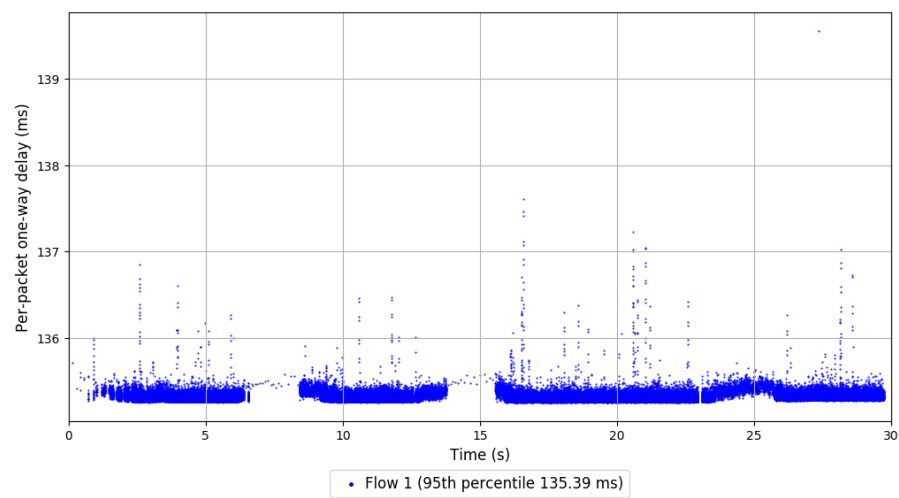
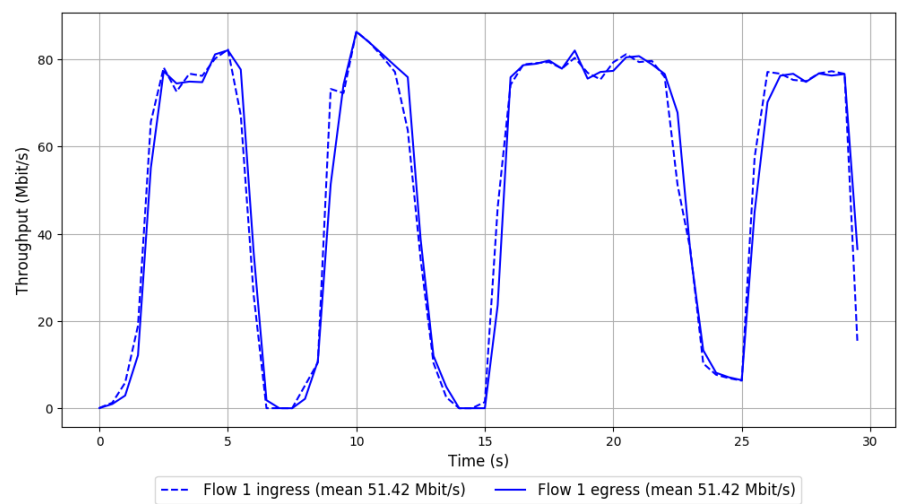
-- Flow 1:

Average throughput: 51.42 Mbit/s

95th percentile per-packet one-way delay: 135.386 ms

Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2017-12-05 18:58:45

End at: 2017-12-05 18:59:15

Below is generated by plot.py at 2017-12-05 20:59:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 58.52 Mbit/s

95th percentile per-packet one-way delay: 136.485 ms

Loss rate: 0.00%

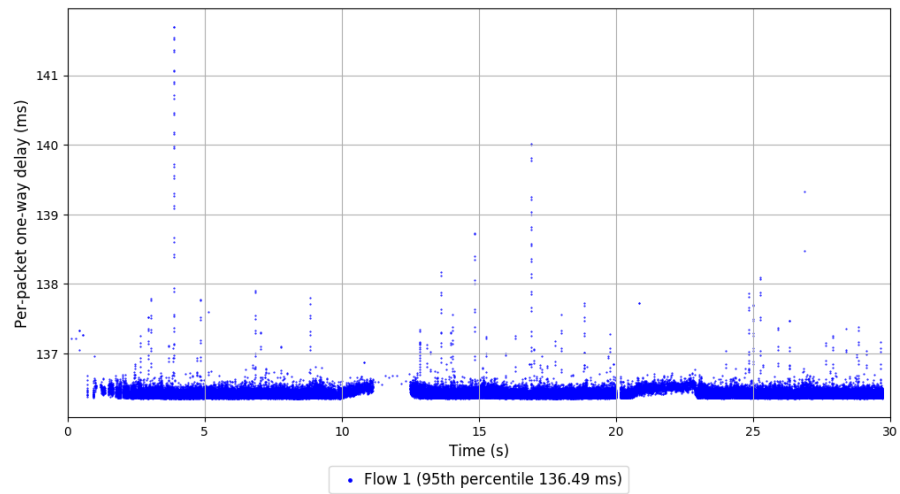
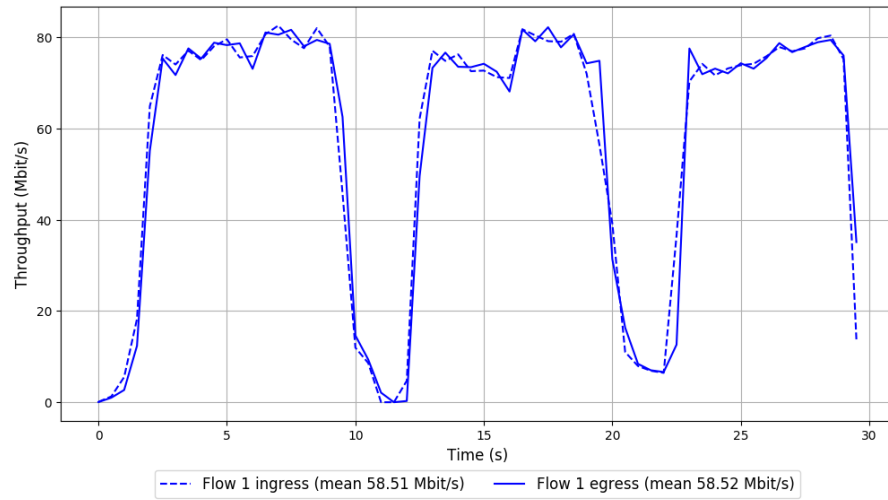
-- Flow 1:

Average throughput: 58.52 Mbit/s

95th percentile per-packet one-way delay: 136.485 ms

Loss rate: 0.00%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2017-12-05 19:09:52

End at: 2017-12-05 19:10:22

Below is generated by plot.py at 2017-12-05 20:59:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.39 Mbit/s

95th percentile per-packet one-way delay: 136.642 ms

Loss rate: 0.00%

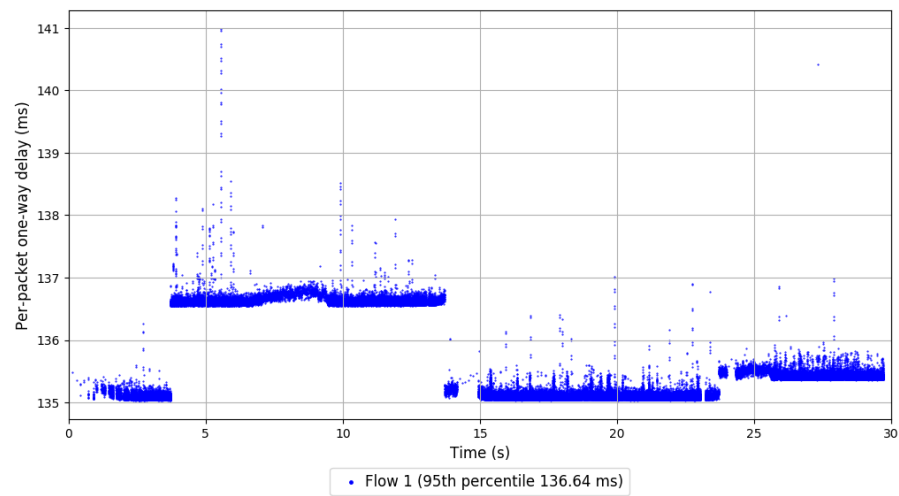
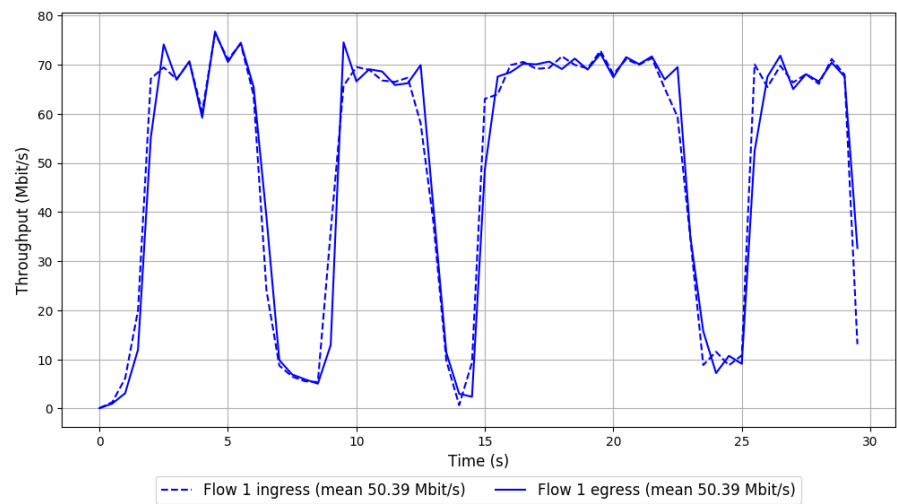
-- Flow 1:

Average throughput: 50.39 Mbit/s

95th percentile per-packet one-way delay: 136.642 ms

Loss rate: 0.00%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2017-12-05 19:21:07

End at: 2017-12-05 19:21:37

Below is generated by plot.py at 2017-12-05 20:59:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 58.72 Mbit/s

95th percentile per-packet one-way delay: 136.490 ms

Loss rate: 0.00%

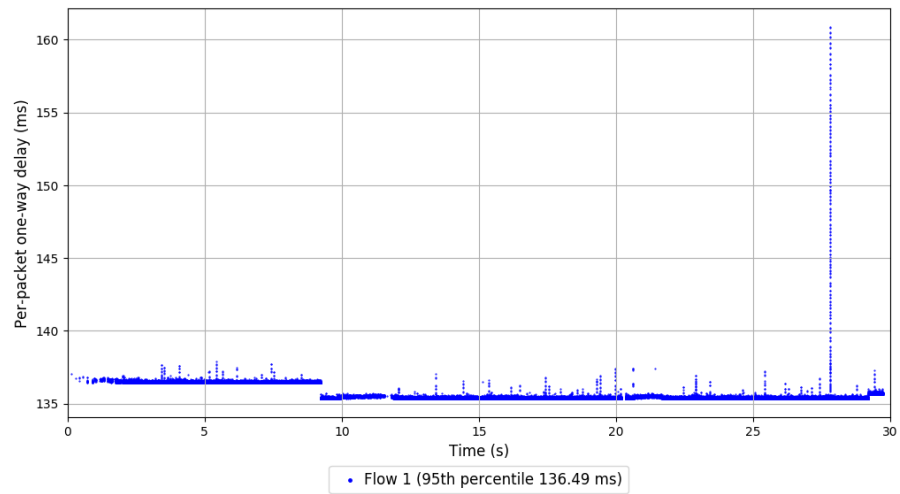
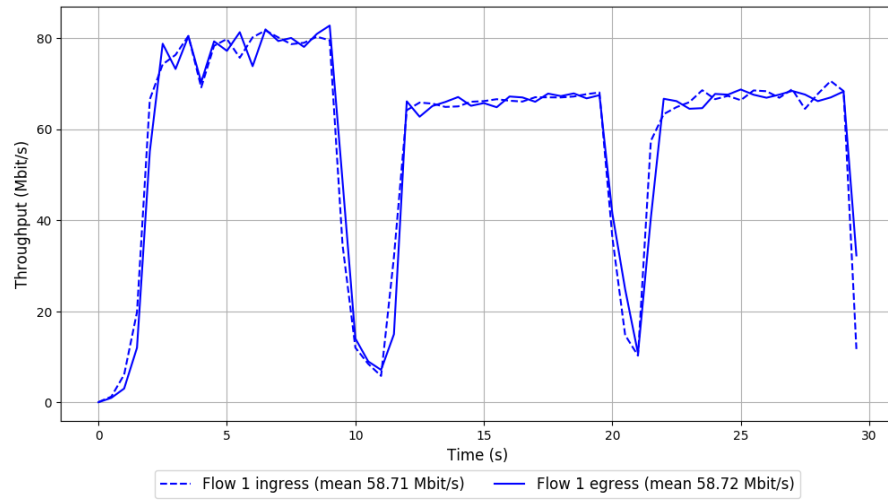
-- Flow 1:

Average throughput: 58.72 Mbit/s

95th percentile per-packet one-way delay: 136.490 ms

Loss rate: 0.00%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2017-12-05 19:32:43

End at: 2017-12-05 19:33:13

Below is generated by plot.py at 2017-12-05 20:59:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 53.60 Mbit/s

95th percentile per-packet one-way delay: 137.015 ms

Loss rate: 0.00%

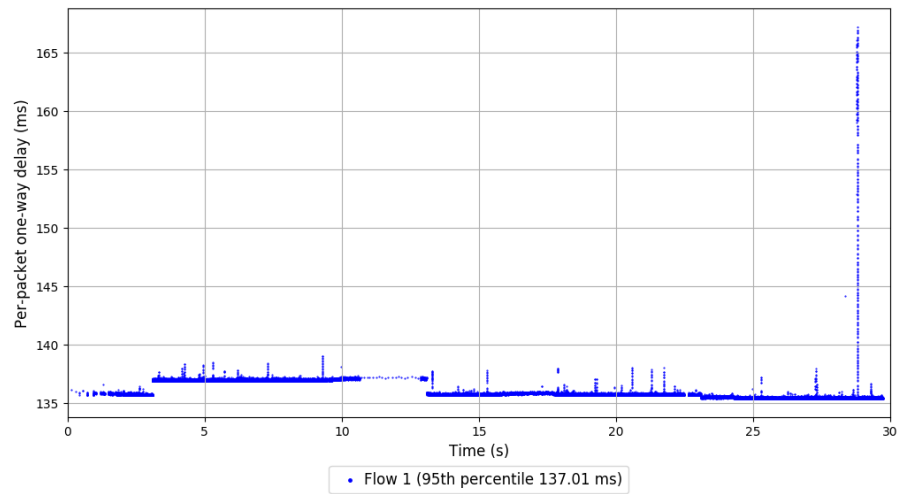
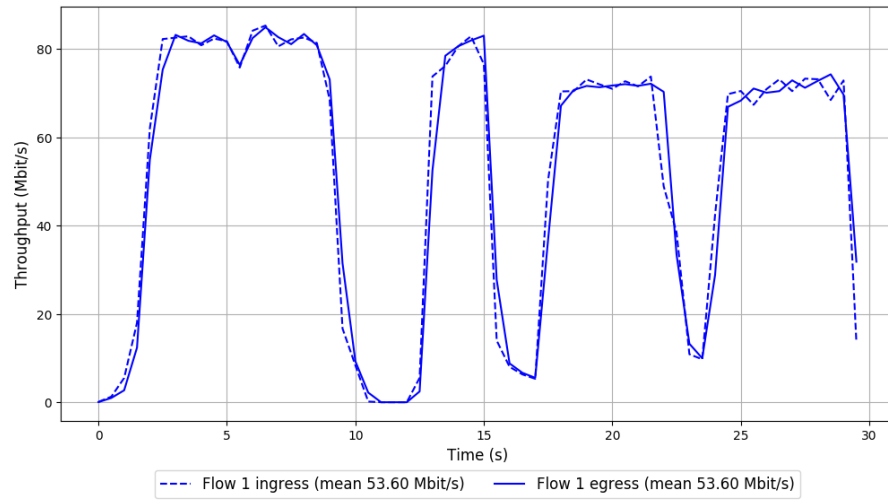
-- Flow 1:

Average throughput: 53.60 Mbit/s

95th percentile per-packet one-way delay: 137.015 ms

Loss rate: 0.00%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2017-12-05 19:43:46

End at: 2017-12-05 19:44:16

Below is generated by plot.py at 2017-12-05 20:59:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 58.46 Mbit/s

95th percentile per-packet one-way delay: 137.200 ms

Loss rate: 0.00%

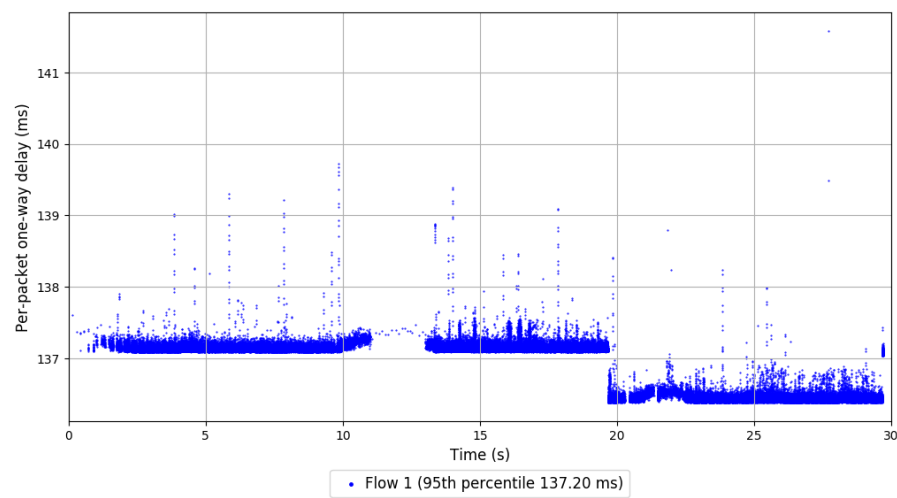
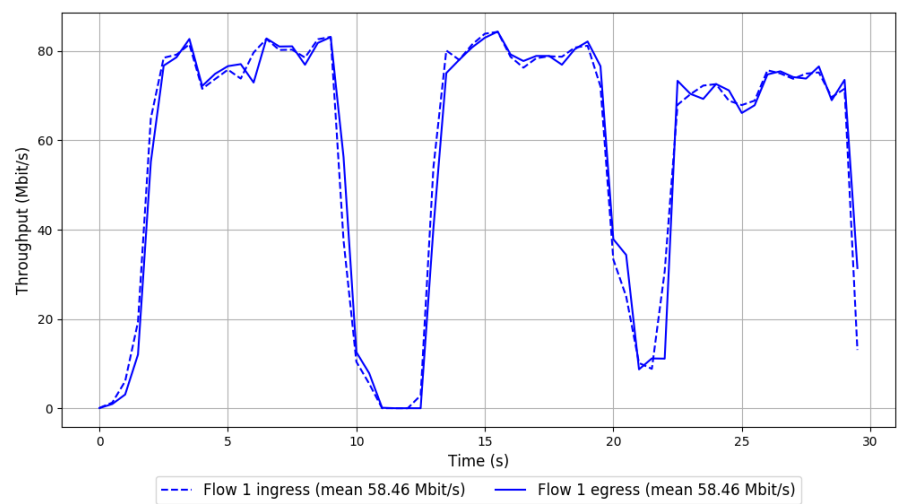
-- Flow 1:

Average throughput: 58.46 Mbit/s

95th percentile per-packet one-way delay: 137.200 ms

Loss rate: 0.00%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2017-12-05 19:55:27

End at: 2017-12-05 19:55:57

Below is generated by plot.py at 2017-12-05 20:59:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 60.96 Mbit/s

95th percentile per-packet one-way delay: 137.150 ms

Loss rate: 0.00%

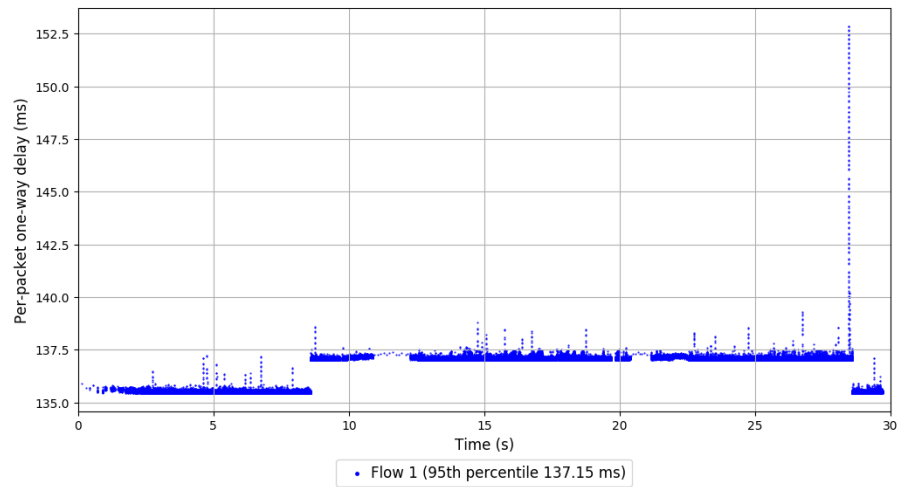
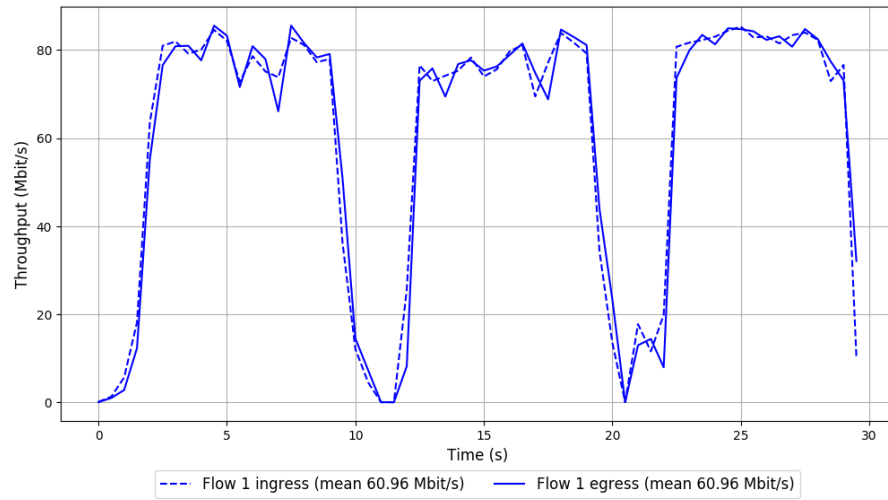
-- Flow 1:

Average throughput: 60.96 Mbit/s

95th percentile per-packet one-way delay: 137.150 ms

Loss rate: 0.00%

Run 10: Report of QUIC Cubic — Data Link

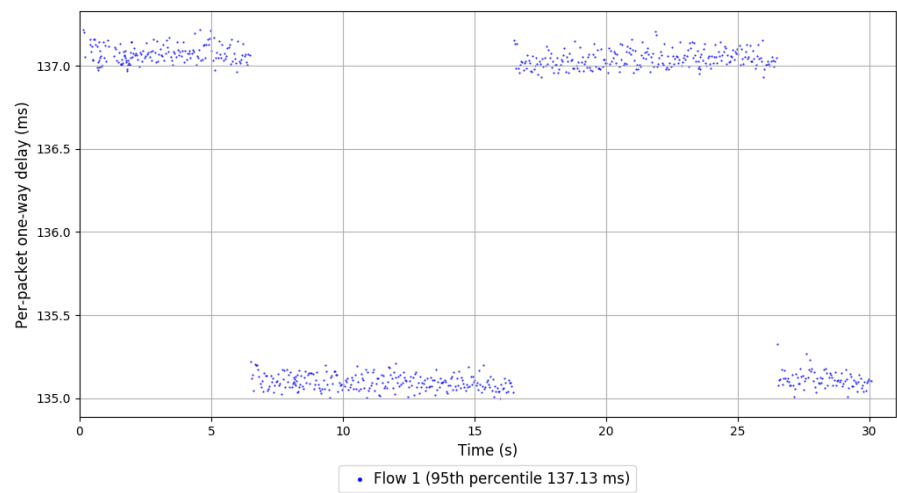
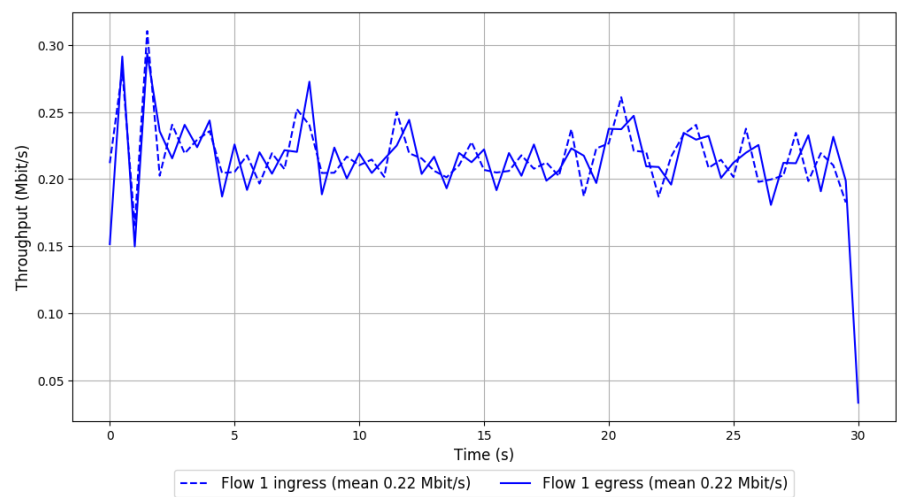


```
Run 1: Statistics of SCReAM

Start at: 2017-12-05 18:21:10
End at: 2017-12-05 18:21:40

# Below is generated by plot.py at 2017-12-05 20:59:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 137.133 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 137.133 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

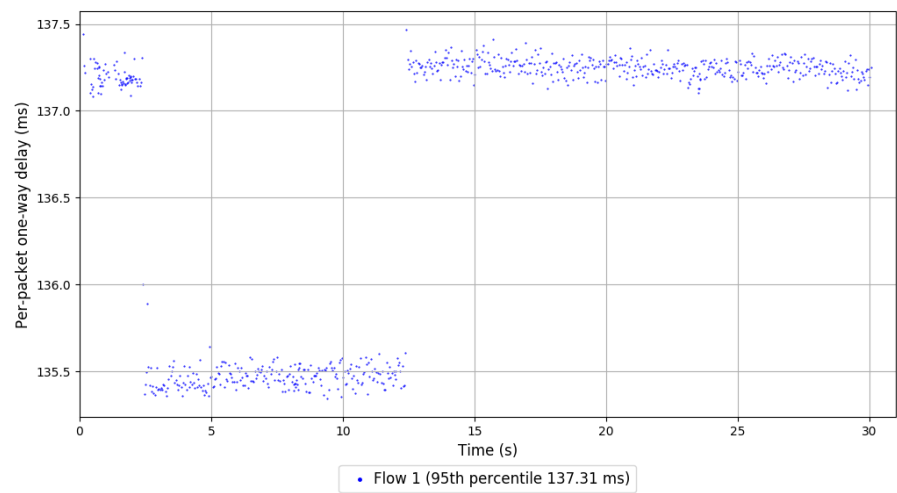
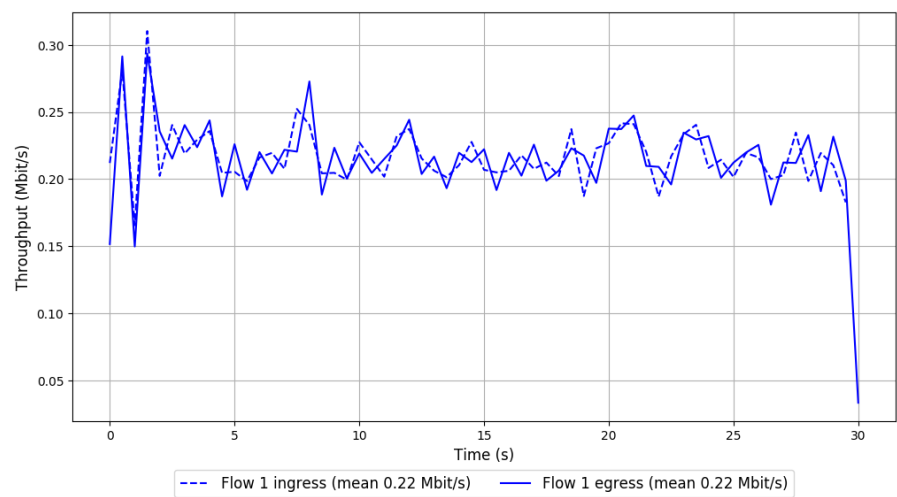


```
Run 2: Statistics of SCReAM

Start at: 2017-12-05 18:32:24
End at: 2017-12-05 18:32:54

# Below is generated by plot.py at 2017-12-05 20:59:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 137.313 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 137.313 ms
Loss rate: 0.00%
```

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2017-12-05 18:43:37

End at: 2017-12-05 18:44:07

Below is generated by plot.py at 2017-12-05 20:59:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 137.164 ms

Loss rate: 0.00%

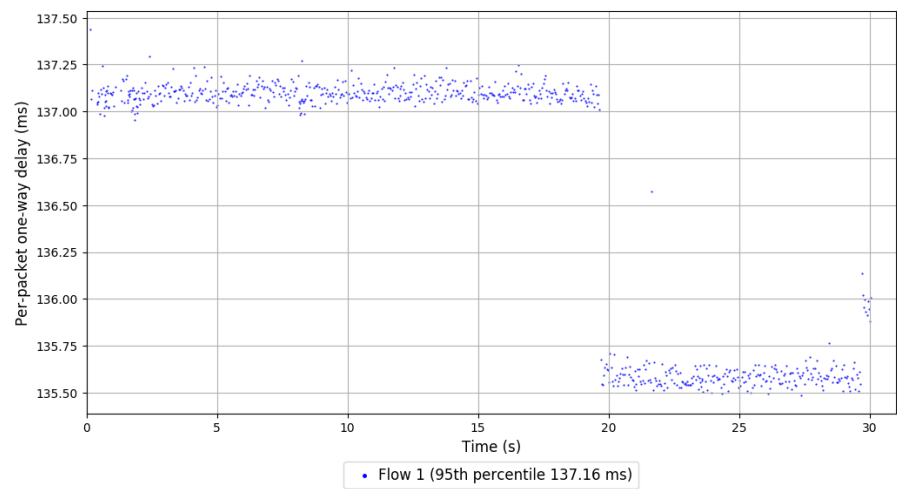
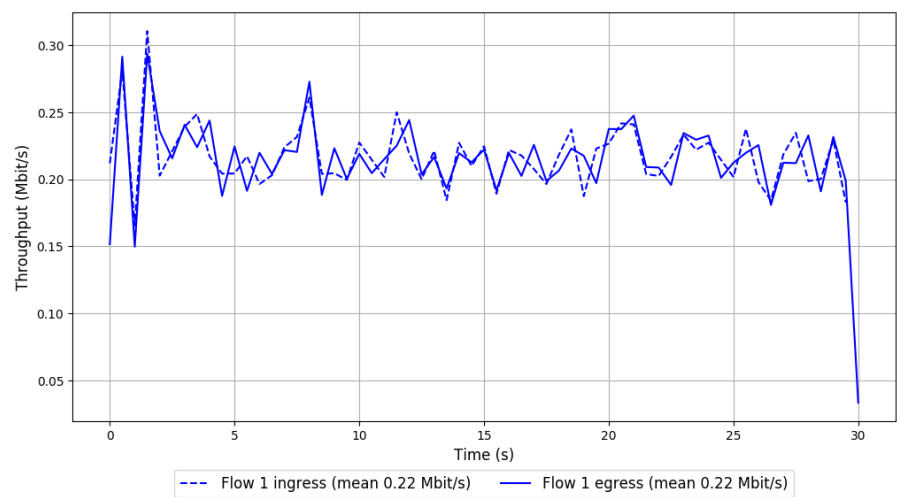
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 137.164 ms

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2017-12-05 18:55:01

End at: 2017-12-05 18:55:31

Below is generated by plot.py at 2017-12-05 20:59:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.371 ms

Loss rate: 0.00%

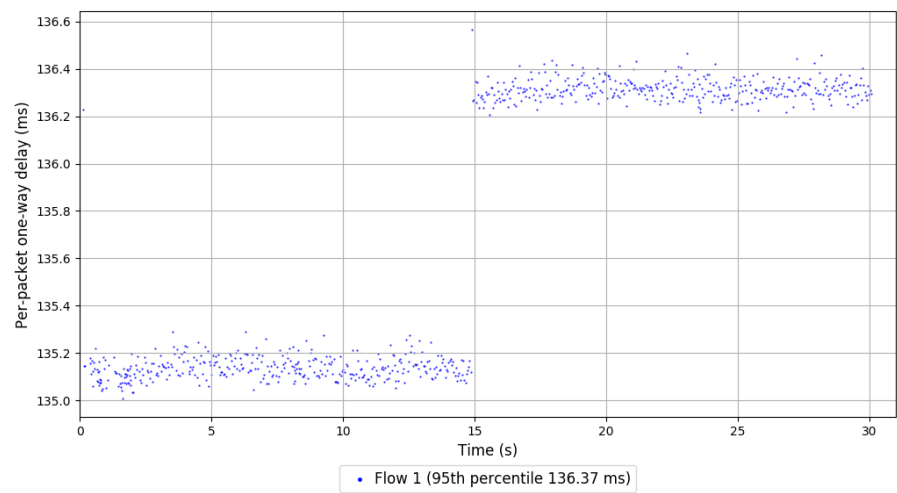
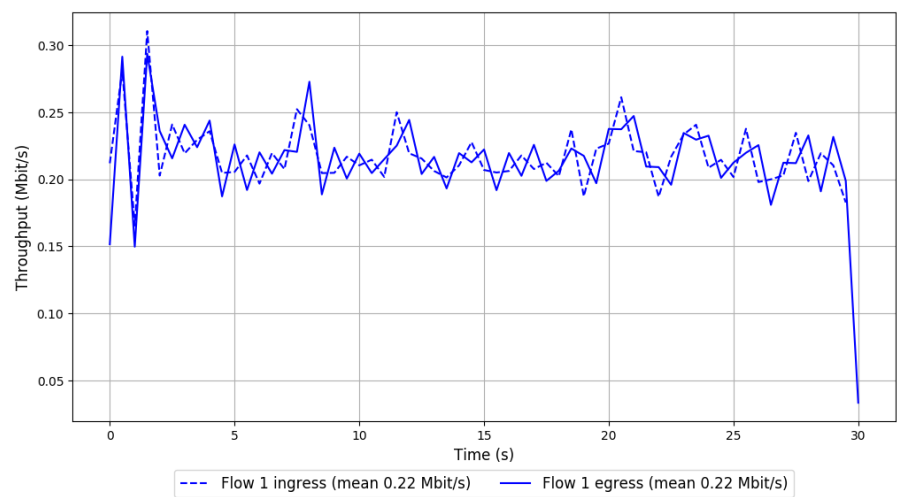
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.371 ms

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2017-12-05 19:06:08

End at: 2017-12-05 19:06:38

Below is generated by plot.py at 2017-12-05 20:59:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.00%

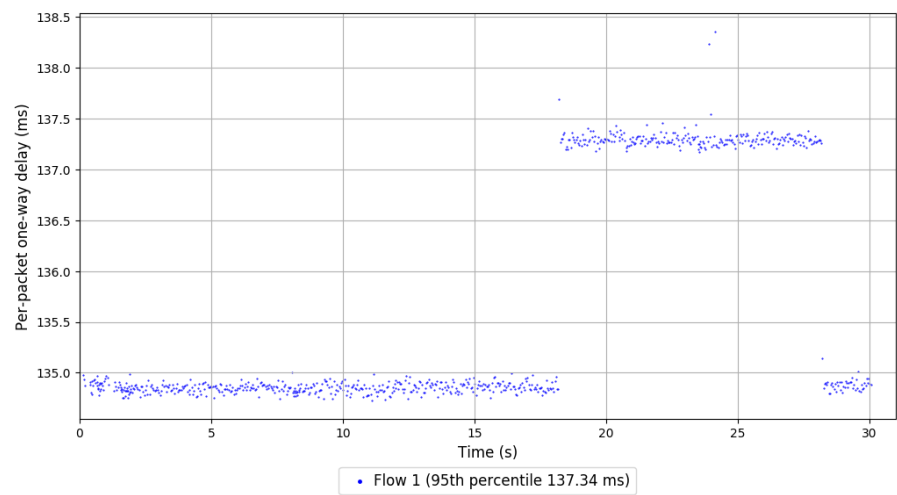
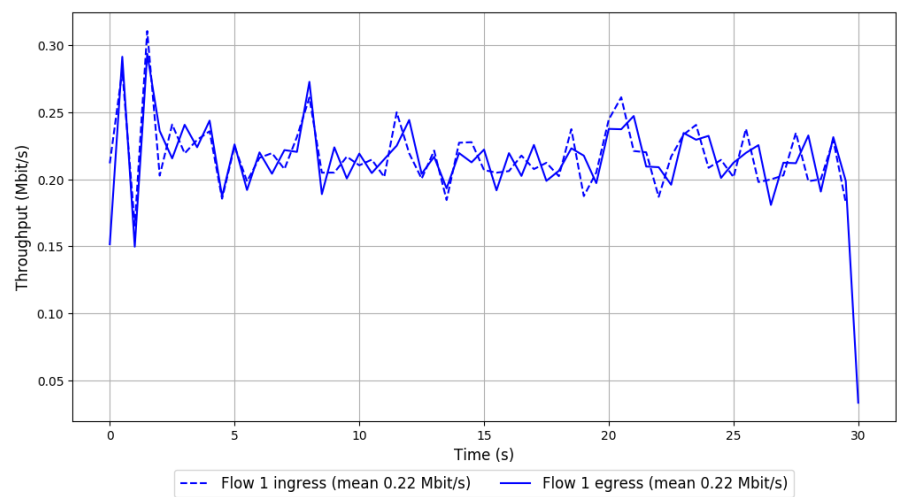
-- Flow 1:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2017-12-05 19:17:22

End at: 2017-12-05 19:17:52

Below is generated by plot.py at 2017-12-05 20:59:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.753 ms

Loss rate: 0.00%

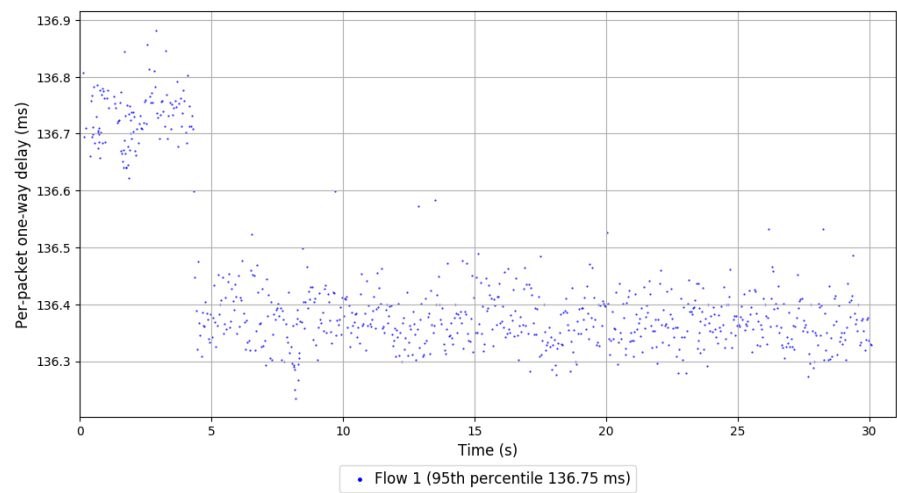
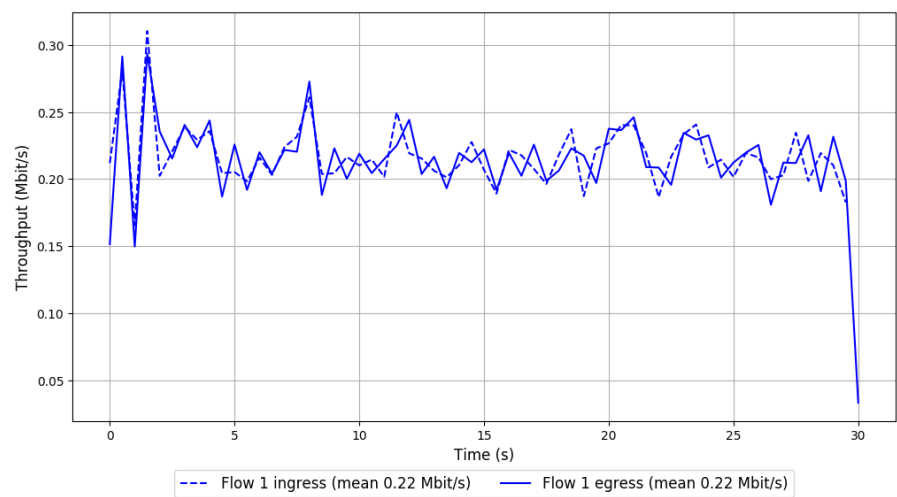
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.753 ms

Loss rate: 0.00%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2017-12-05 19:29:00

End at: 2017-12-05 19:29:30

Below is generated by plot.py at 2017-12-05 20:59:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 137.326 ms

Loss rate: 0.00%

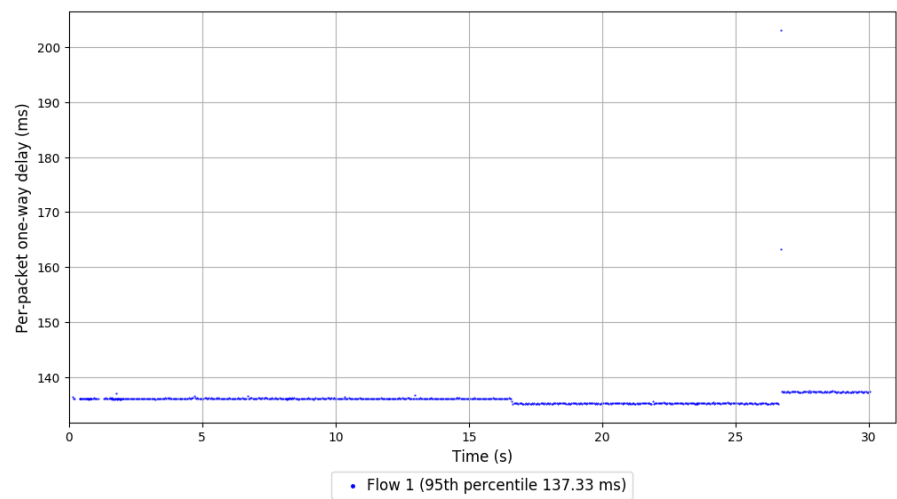
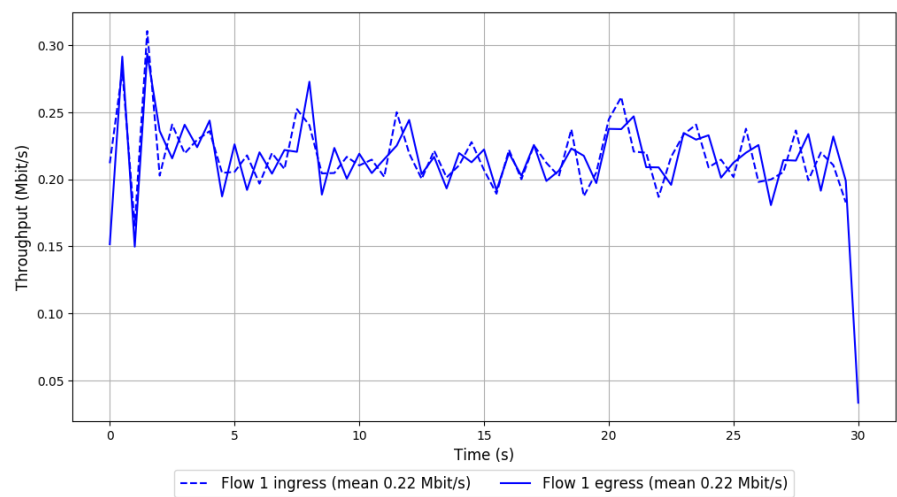
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 137.326 ms

Loss rate: 0.00%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2017-12-05 19:40:02

End at: 2017-12-05 19:40:32

Below is generated by plot.py at 2017-12-05 20:59:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 137.316 ms

Loss rate: 0.00%

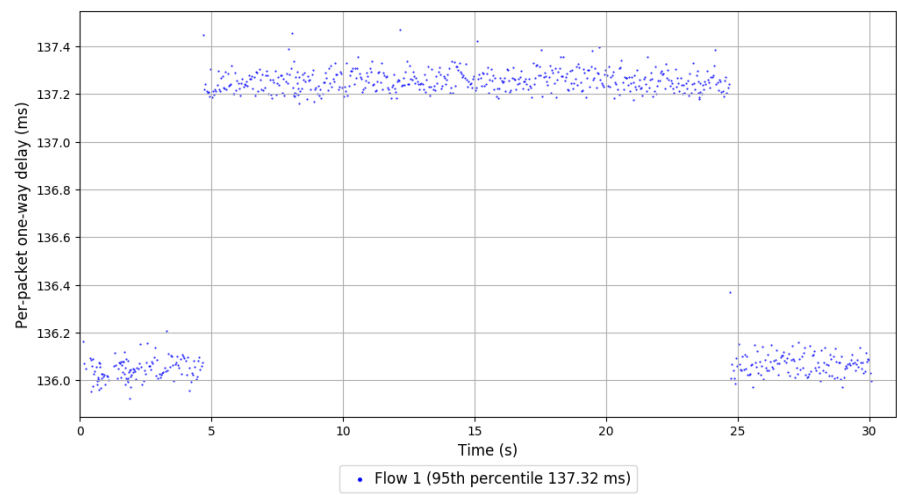
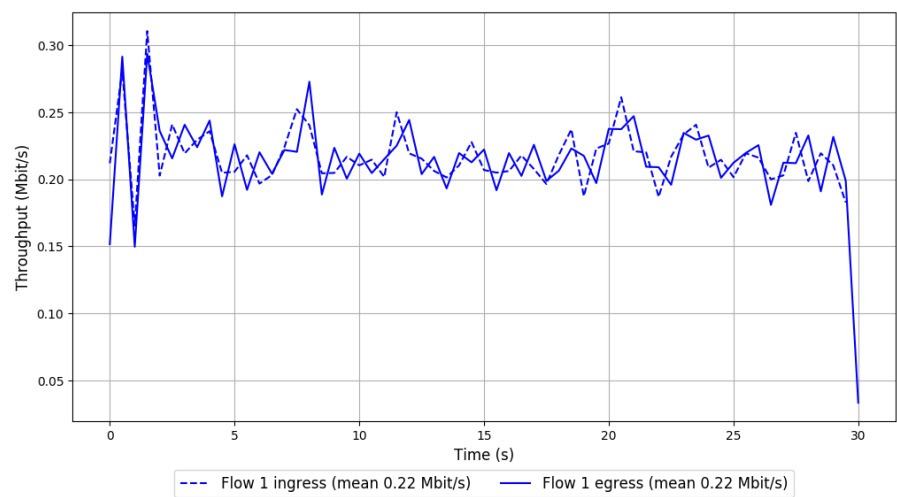
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 137.316 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2017-12-05 19:51:41

End at: 2017-12-05 19:52:11

Below is generated by plot.py at 2017-12-05 20:59:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 137.445 ms

Loss rate: 0.00%

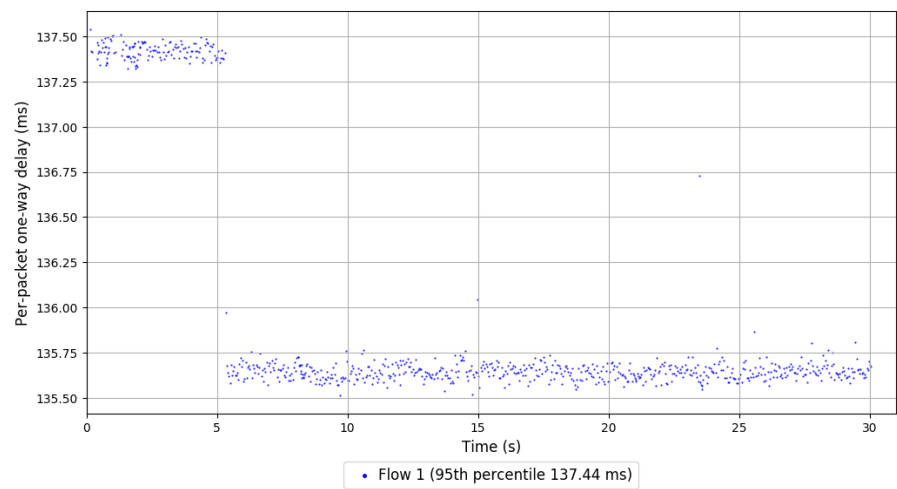
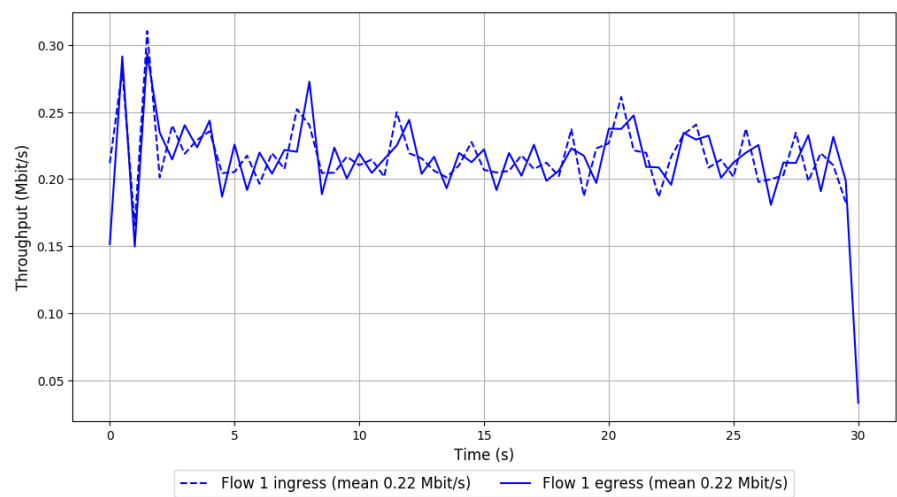
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 137.445 ms

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2017-12-05 20:03:25

End at: 2017-12-05 20:03:55

Below is generated by plot.py at 2017-12-05 20:59:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 137.320 ms

Loss rate: 0.00%

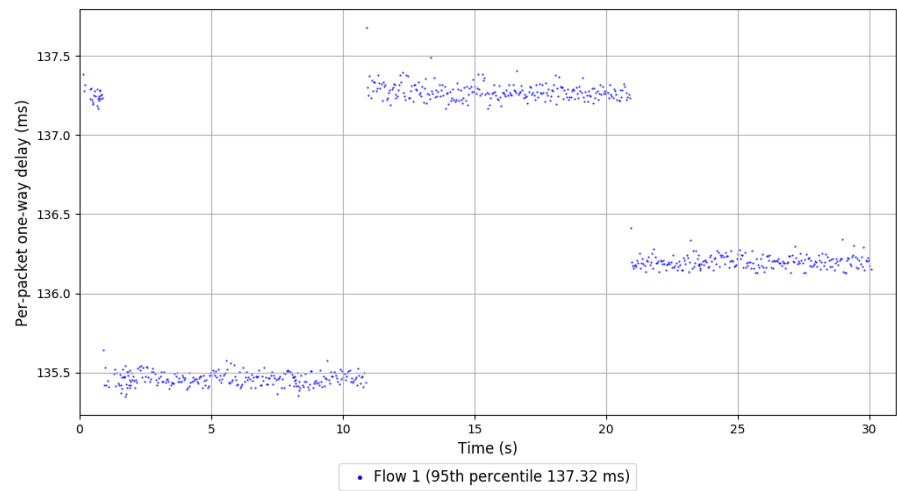
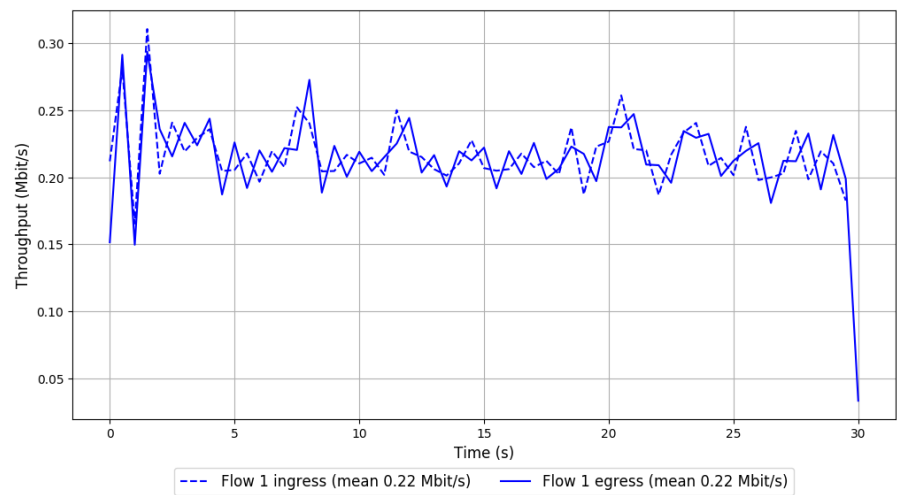
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 137.320 ms

Loss rate: 0.00%

Run 10: Report of SCRaM — Data Link

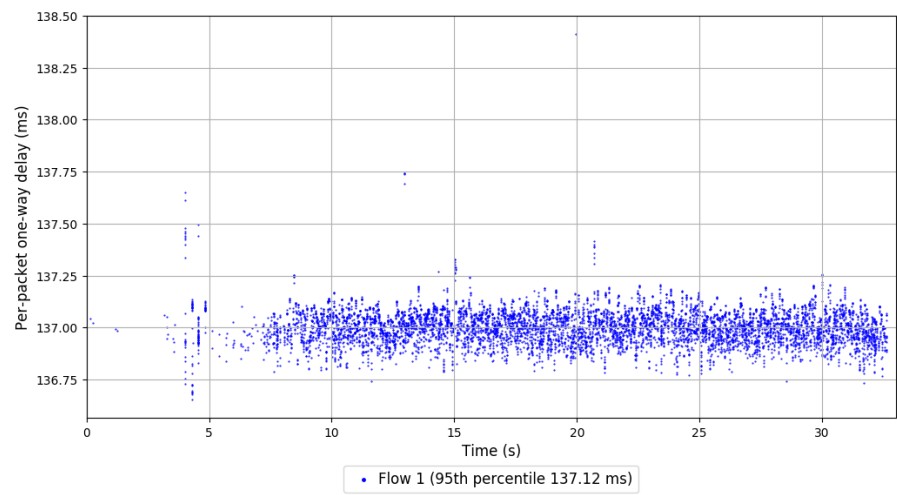
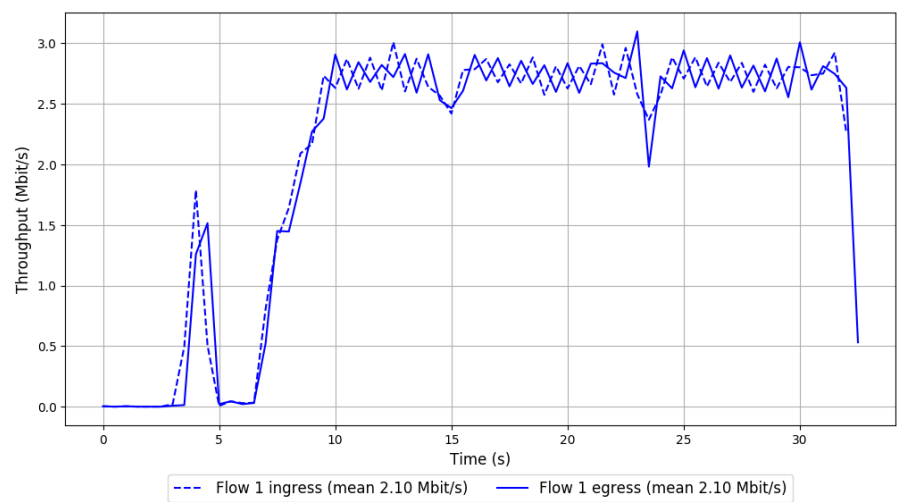


```
Run 1: Statistics of WebRTC media

Start at: 2017-12-05 18:22:36
End at: 2017-12-05 18:23:06

# Below is generated by plot.py at 2017-12-05 20:59:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.10 Mbit/s
95th percentile per-packet one-way delay: 137.120 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.10 Mbit/s
95th percentile per-packet one-way delay: 137.120 ms
Loss rate: 0.00%
```

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2017-12-05 18:33:51

End at: 2017-12-05 18:34:21

Below is generated by plot.py at 2017-12-05 20:59:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.11 Mbit/s

95th percentile per-packet one-way delay: 134.981 ms

Loss rate: 0.00%

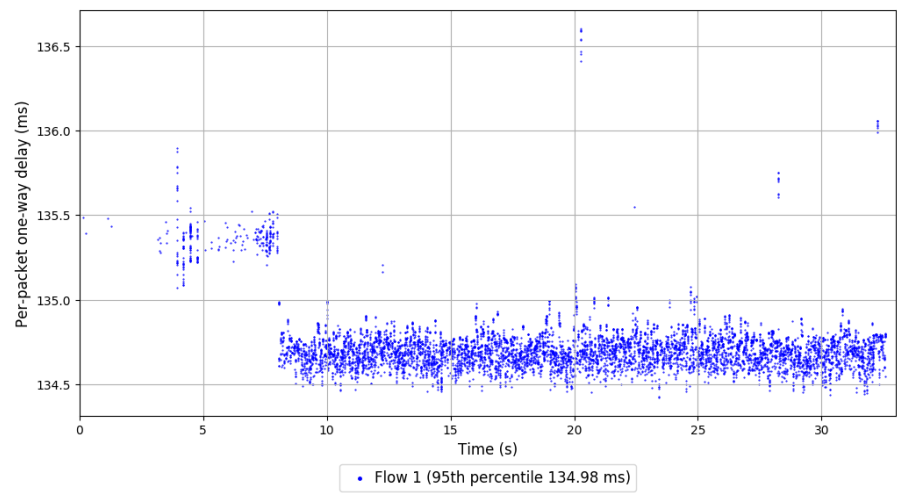
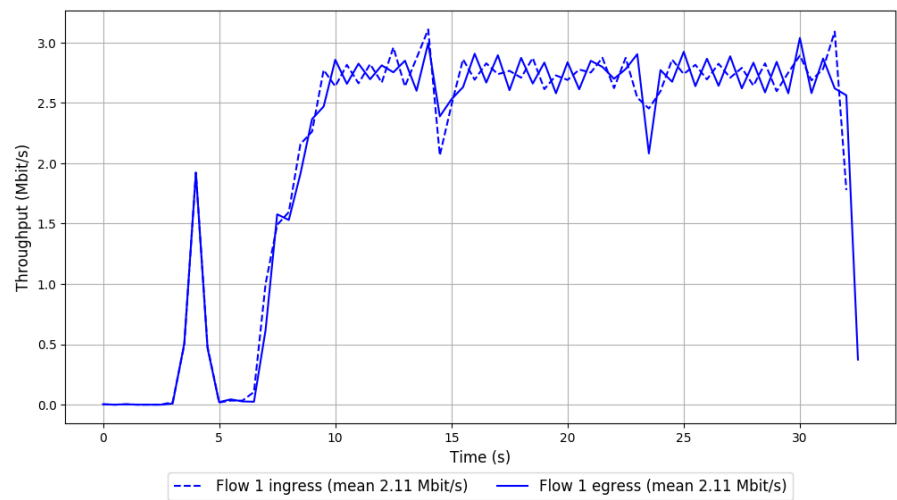
-- Flow 1:

Average throughput: 2.11 Mbit/s

95th percentile per-packet one-way delay: 134.981 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2017-12-05 18:45:03

End at: 2017-12-05 18:45:33

Below is generated by plot.py at 2017-12-05 20:59:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.10 Mbit/s

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

Loss rate: 0.00%

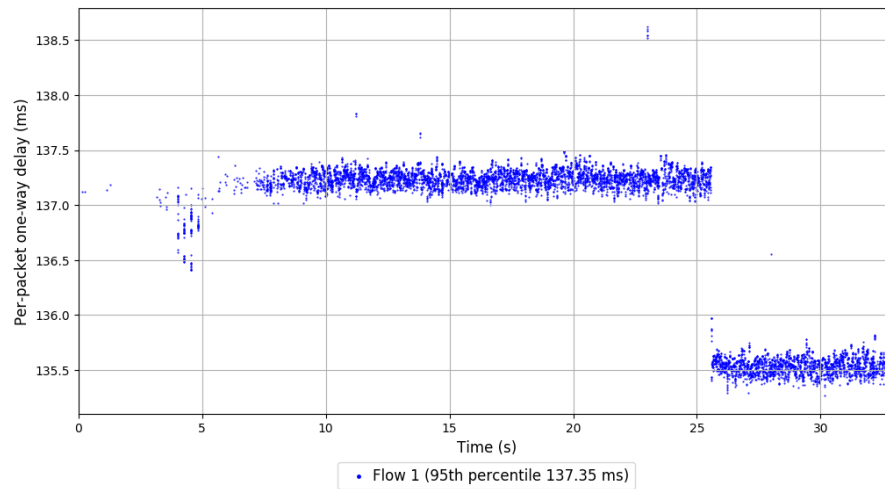
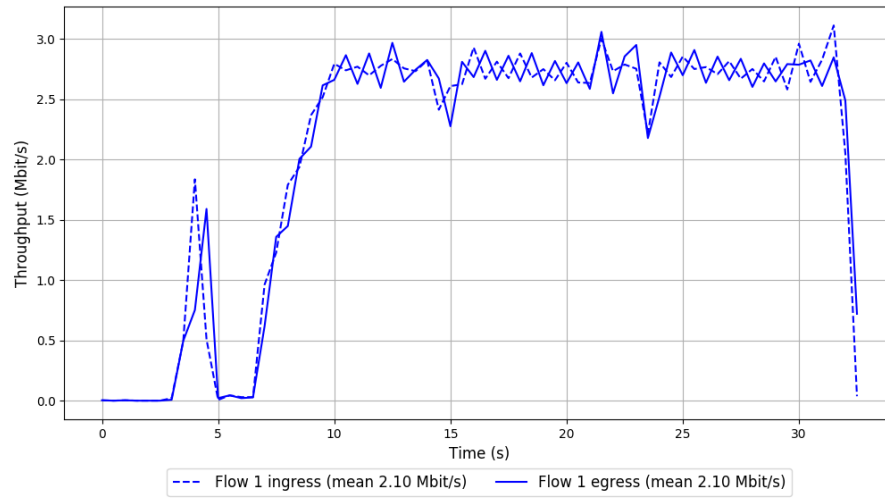
-- Flow 1:

Average throughput: 2.10 Mbit/s

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

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2017-12-05 18:56:27

End at: 2017-12-05 18:56:57

Below is generated by plot.py at 2017-12-05 20:59:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.09 Mbit/s

95th percentile per-packet one-way delay: 136.390 ms

Loss rate: 0.00%

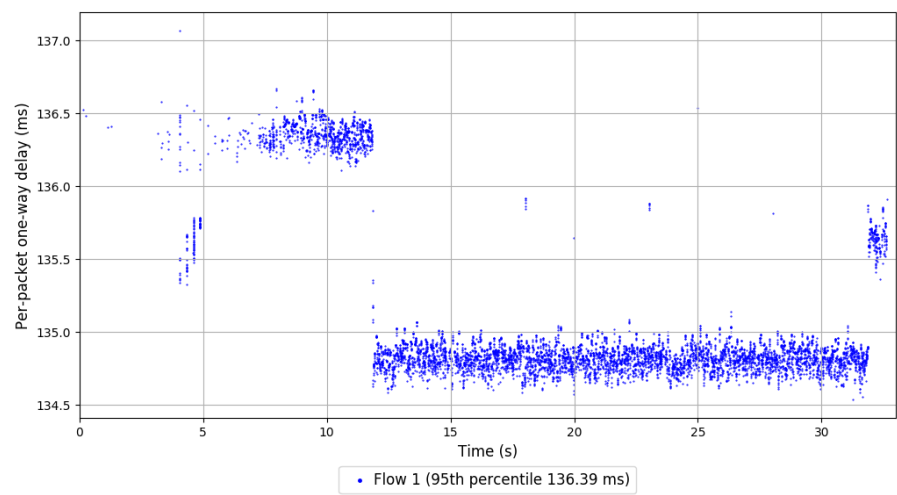
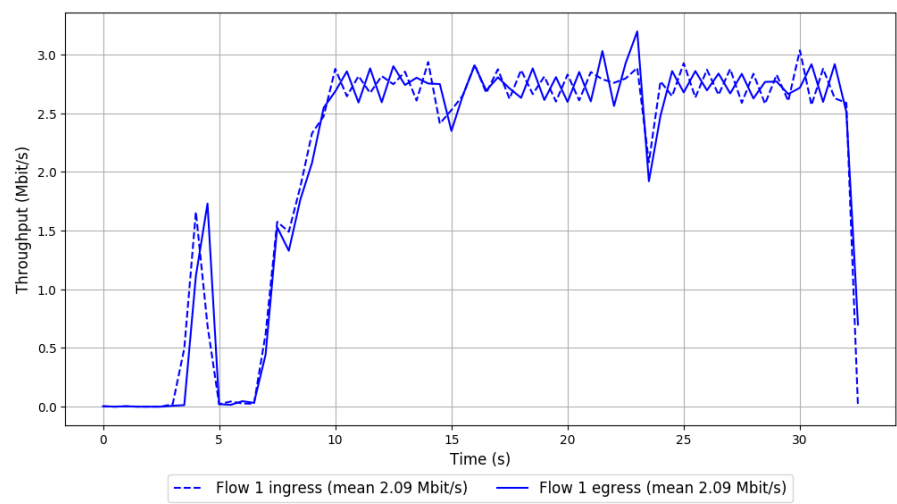
-- Flow 1:

Average throughput: 2.09 Mbit/s

95th percentile per-packet one-way delay: 136.390 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2017-12-05 19:07:34

End at: 2017-12-05 19:08:04

Below is generated by plot.py at 2017-12-05 20:59:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.09 Mbit/s

95th percentile per-packet one-way delay: 136.858 ms

Loss rate: 0.00%

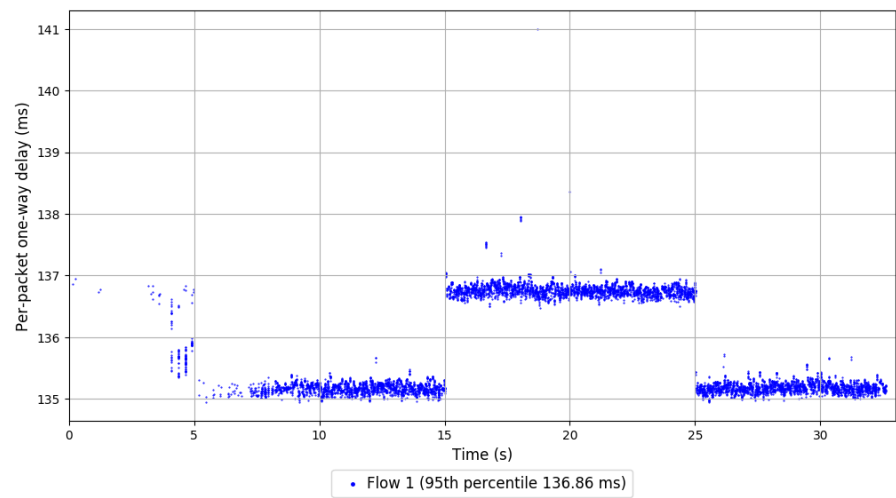
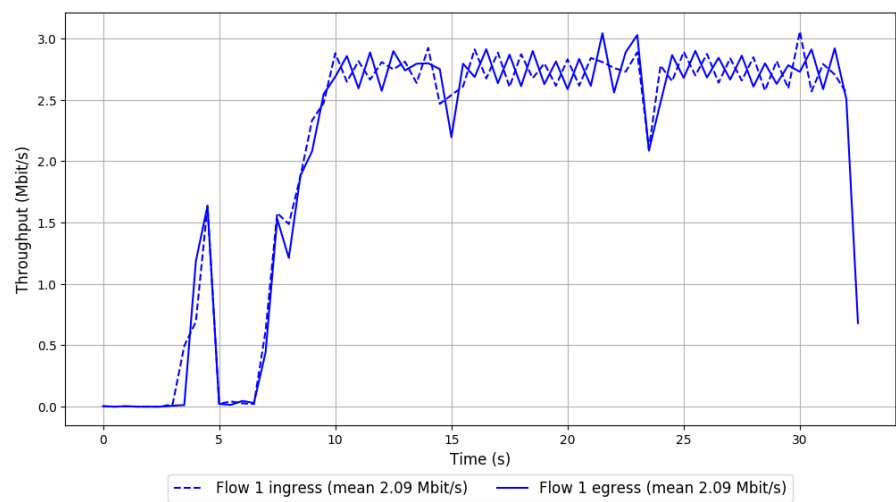
-- Flow 1:

Average throughput: 2.09 Mbit/s

95th percentile per-packet one-way delay: 136.858 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2017-12-05 19:18:48

End at: 2017-12-05 19:19:18

Below is generated by plot.py at 2017-12-05 20:59:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.10 Mbit/s

95th percentile per-packet one-way delay: 136.915 ms

Loss rate: 0.00%

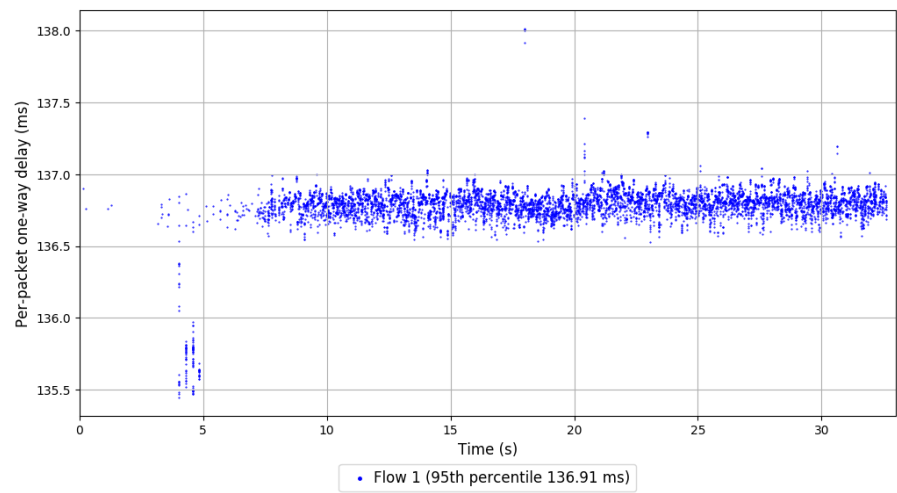
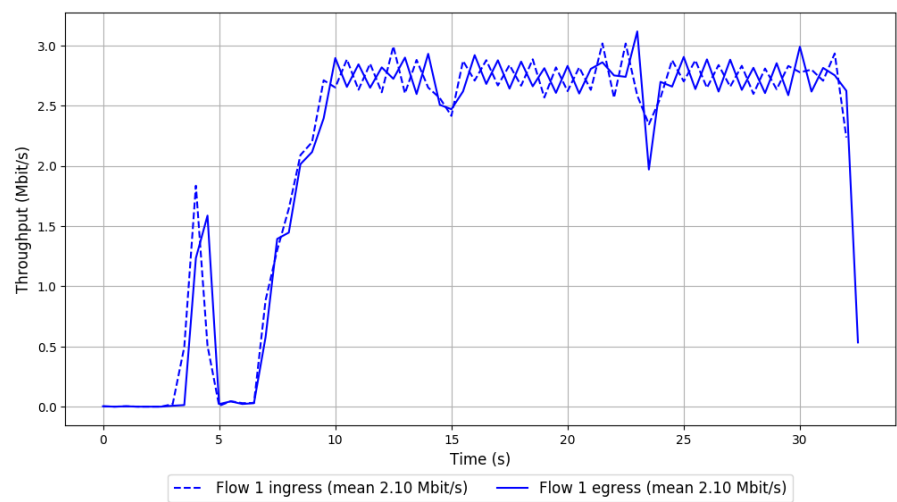
-- Flow 1:

Average throughput: 2.10 Mbit/s

95th percentile per-packet one-way delay: 136.915 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2017-12-05 19:30:25

End at: 2017-12-05 19:30:55

Below is generated by plot.py at 2017-12-05 20:59:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.09 Mbit/s

95th percentile per-packet one-way delay: 136.286 ms

Loss rate: 0.00%

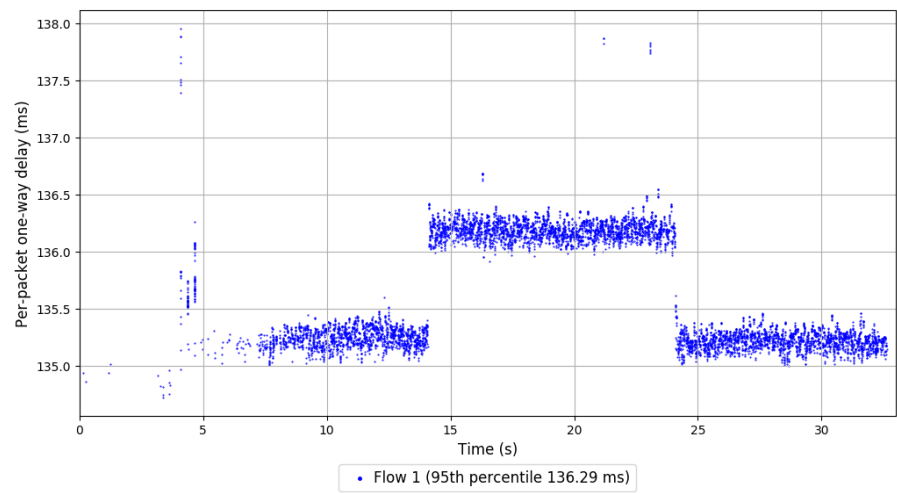
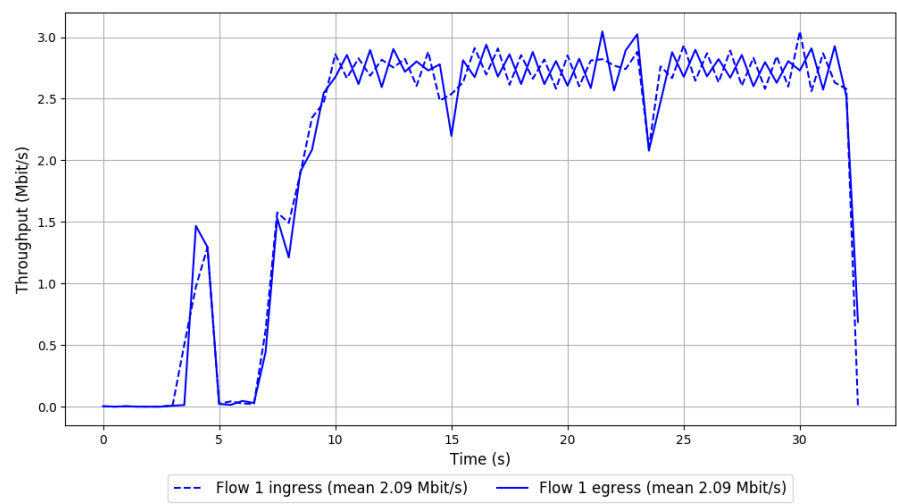
-- Flow 1:

Average throughput: 2.09 Mbit/s

95th percentile per-packet one-way delay: 136.286 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2017-12-05 19:41:28

End at: 2017-12-05 19:41:58

Below is generated by plot.py at 2017-12-05 20:59:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.09 Mbit/s

95th percentile per-packet one-way delay: 137.444 ms

Loss rate: 0.00%

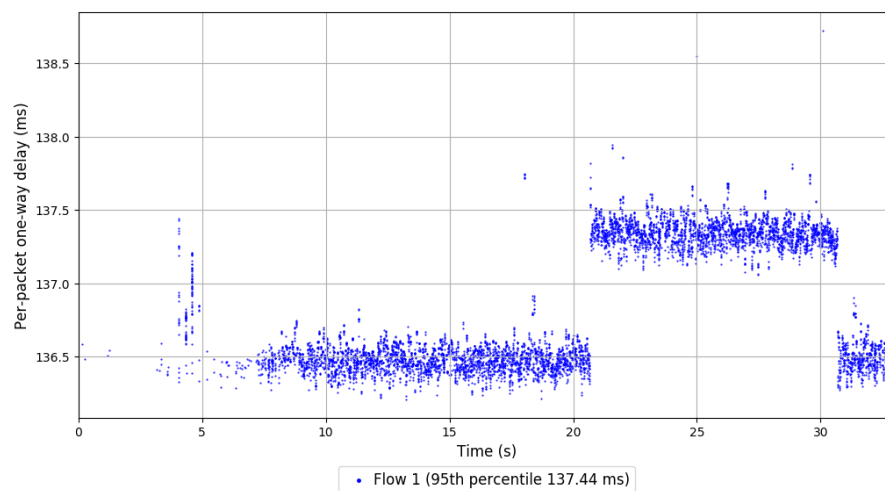
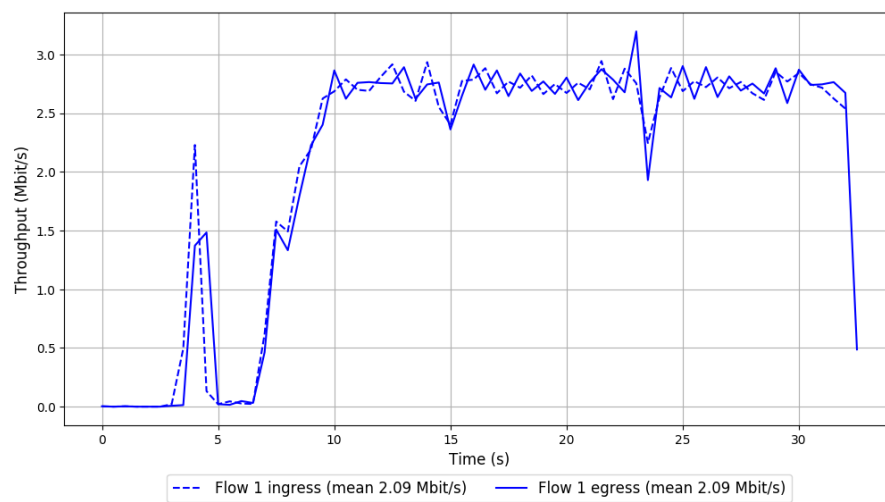
-- Flow 1:

Average throughput: 2.09 Mbit/s

95th percentile per-packet one-way delay: 137.444 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2017-12-05 19:53:09

End at: 2017-12-05 19:53:39

Below is generated by plot.py at 2017-12-05 20:59:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.10 Mbit/s

95th percentile per-packet one-way delay: 136.432 ms

Loss rate: 0.00%

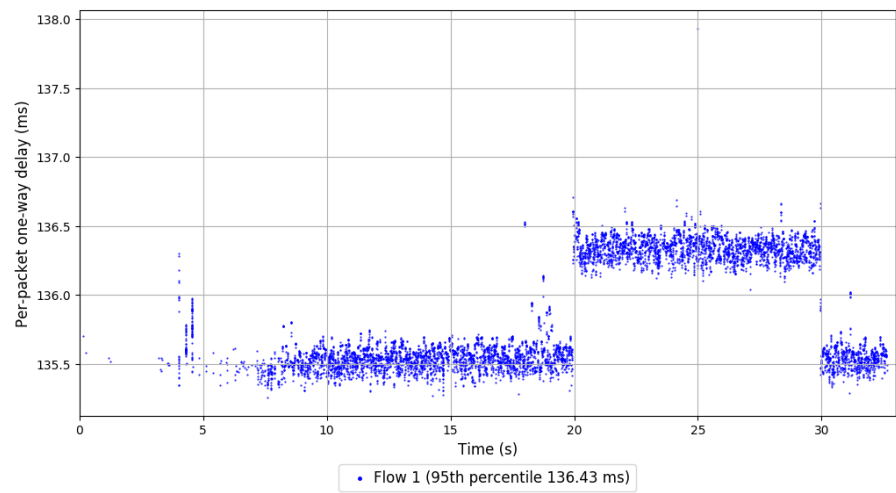
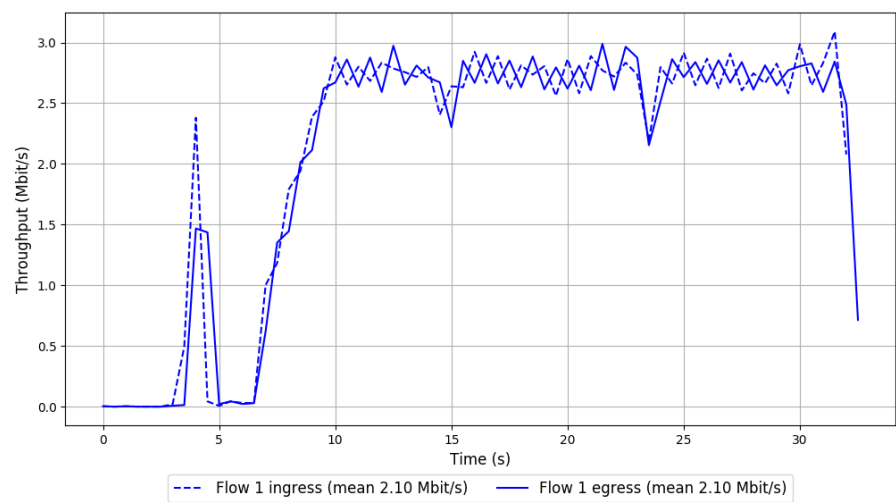
-- Flow 1:

Average throughput: 2.10 Mbit/s

95th percentile per-packet one-way delay: 136.432 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2017-12-05 20:04:53

End at: 2017-12-05 20:05:23

Below is generated by plot.py at 2017-12-05 20:59:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.10 Mbit/s

95th percentile per-packet one-way delay: 135.616 ms

Loss rate: 0.00%

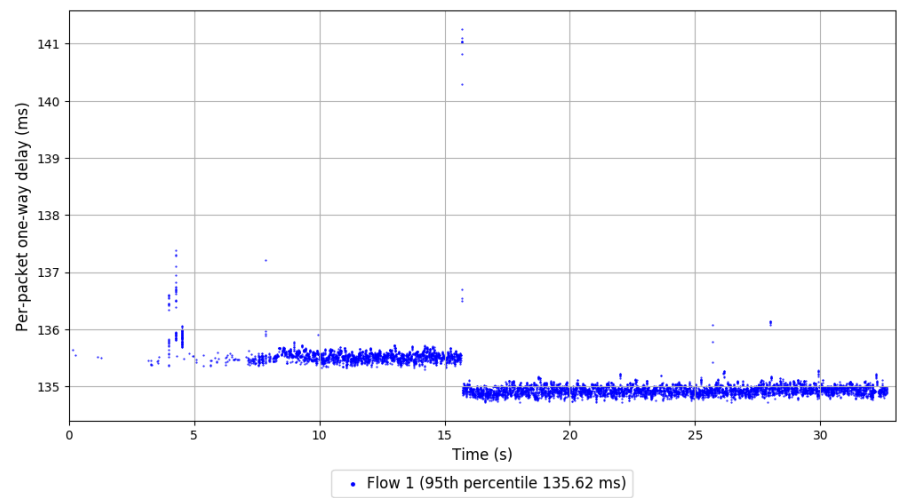
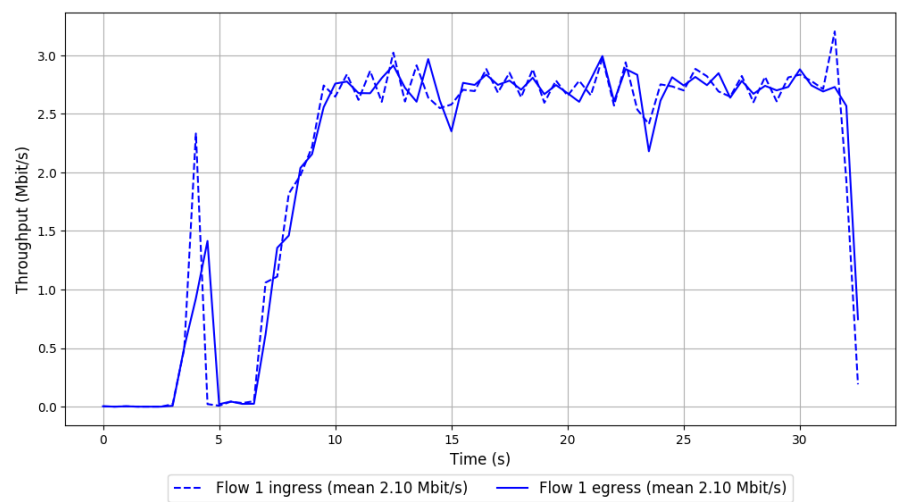
-- Flow 1:

Average throughput: 2.10 Mbit/s

95th percentile per-packet one-way delay: 135.616 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

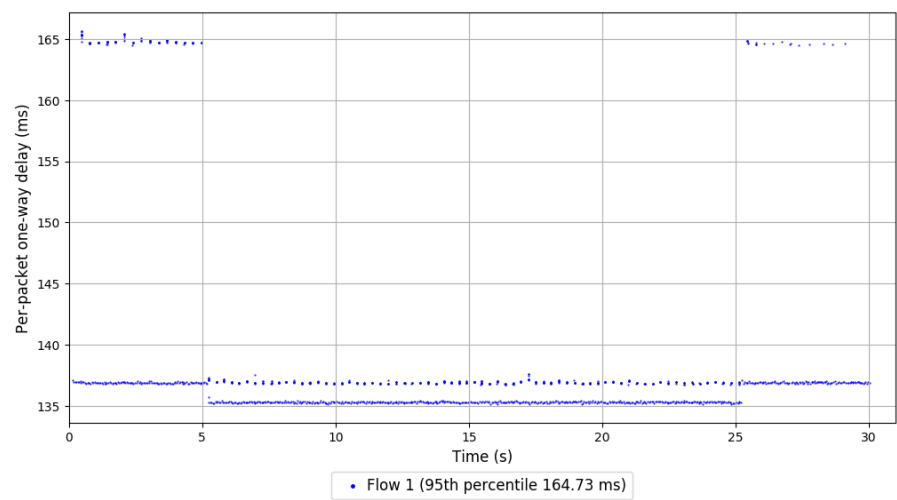
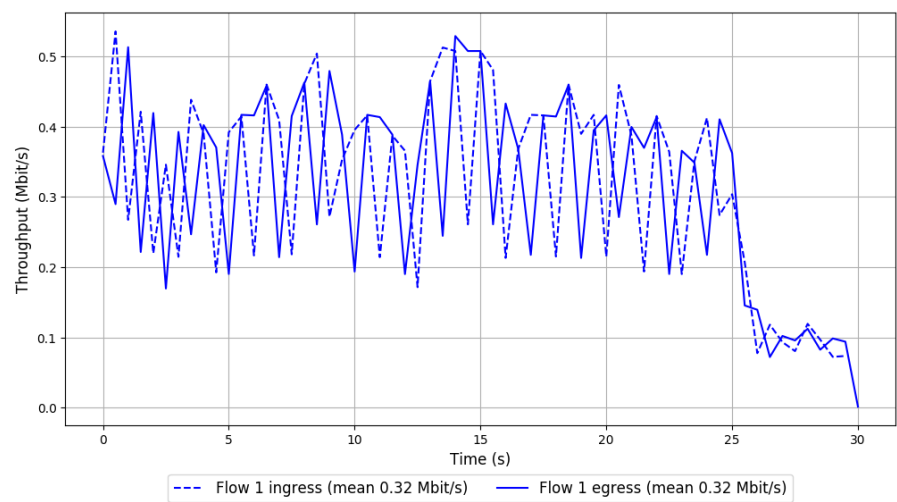


```
Run 1: Statistics of Sprout

Start at: 2017-12-05 18:12:21
End at: 2017-12-05 18:12:51

# Below is generated by plot.py at 2017-12-05 20:59:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.32 Mbit/s
95th percentile per-packet one-way delay: 164.726 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.32 Mbit/s
95th percentile per-packet one-way delay: 164.726 ms
Loss rate: 0.00%
```

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2017-12-05 18:23:20

End at: 2017-12-05 18:23:50

Below is generated by plot.py at 2017-12-05 20:59:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.40 Mbit/s

95th percentile per-packet one-way delay: 164.705 ms

Loss rate: 0.00%

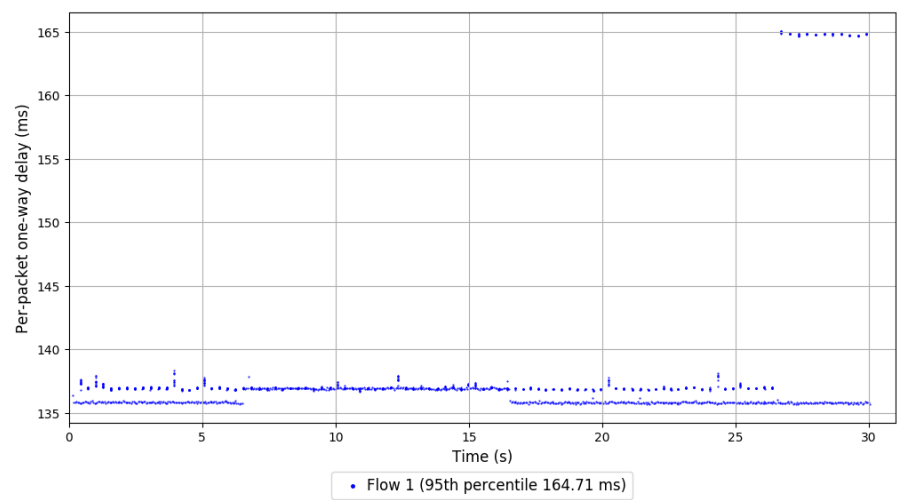
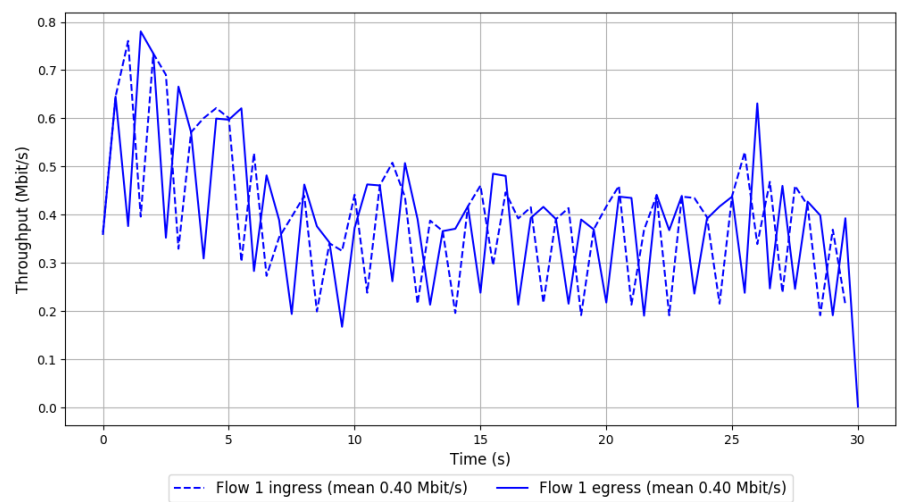
-- Flow 1:

Average throughput: 0.40 Mbit/s

95th percentile per-packet one-way delay: 164.705 ms

Loss rate: 0.00%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2017-12-05 18:34:34

End at: 2017-12-05 18:35:04

Below is generated by plot.py at 2017-12-05 20:59:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.36 Mbit/s

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

Loss rate: 0.00%

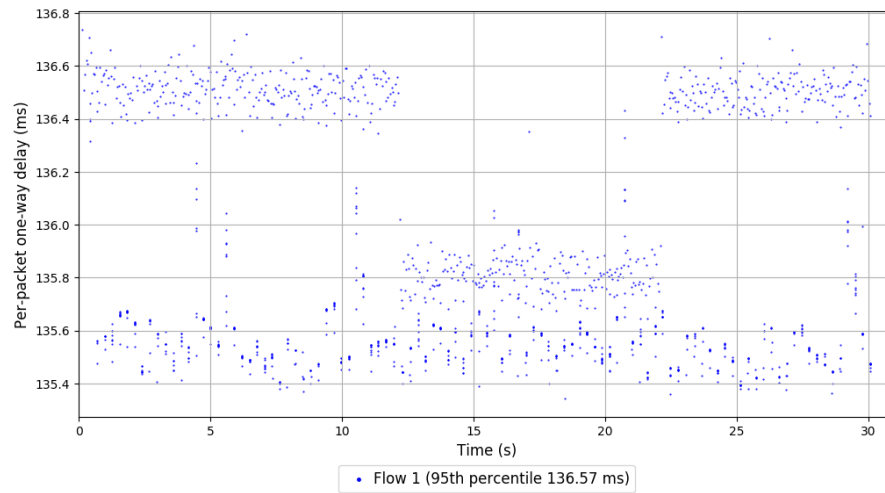
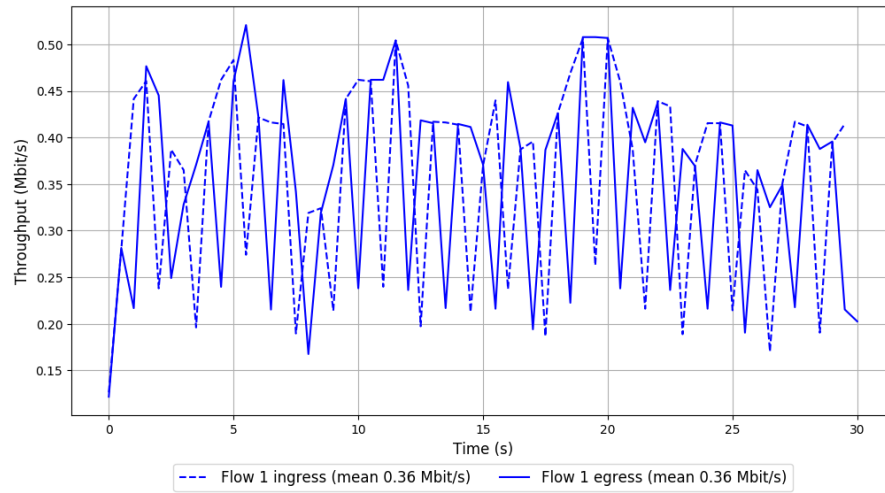
-- Flow 1:

Average throughput: 0.36 Mbit/s

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

Loss rate: 0.00%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2017-12-05 18:45:47

End at: 2017-12-05 18:46:17

Below is generated by plot.py at 2017-12-05 20:59:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.40 Mbit/s

95th percentile per-packet one-way delay: 137.248 ms

Loss rate: 0.00%

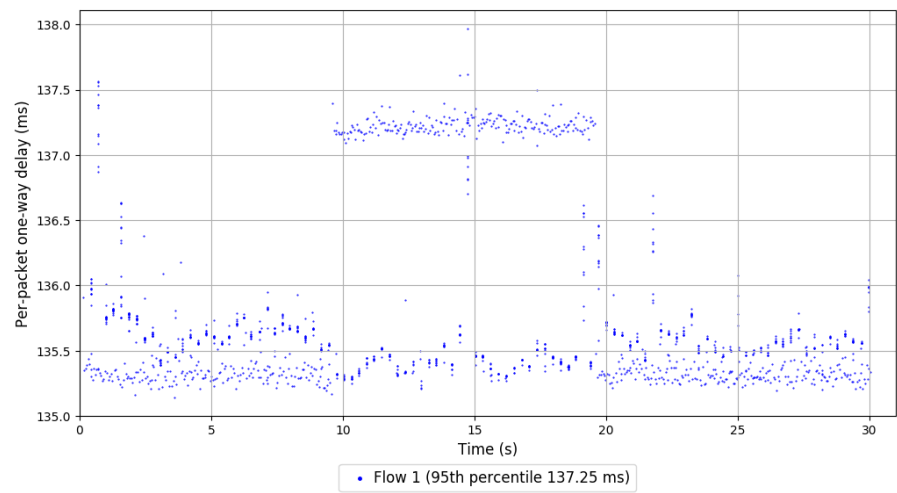
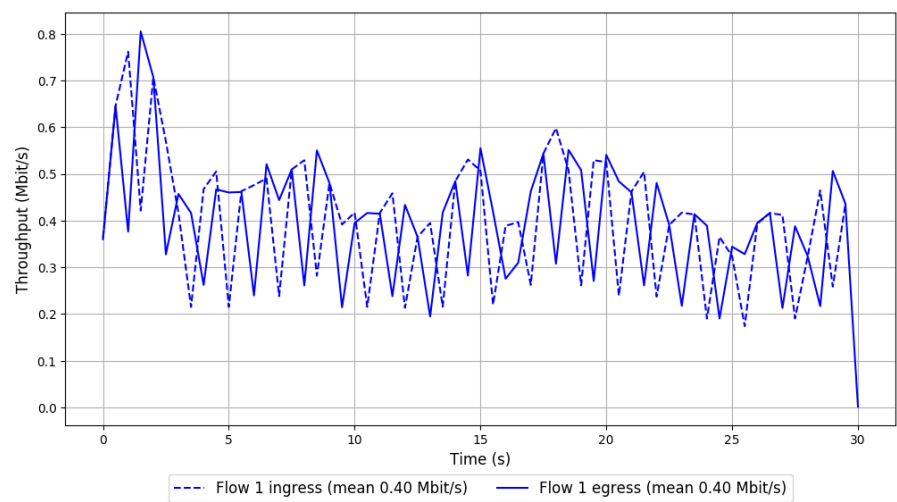
-- Flow 1:

Average throughput: 0.40 Mbit/s

95th percentile per-packet one-way delay: 137.248 ms

Loss rate: 0.00%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2017-12-05 18:57:10

End at: 2017-12-05 18:57:40

Below is generated by plot.py at 2017-12-05 20:59:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.40 Mbit/s

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

Loss rate: 0.00%

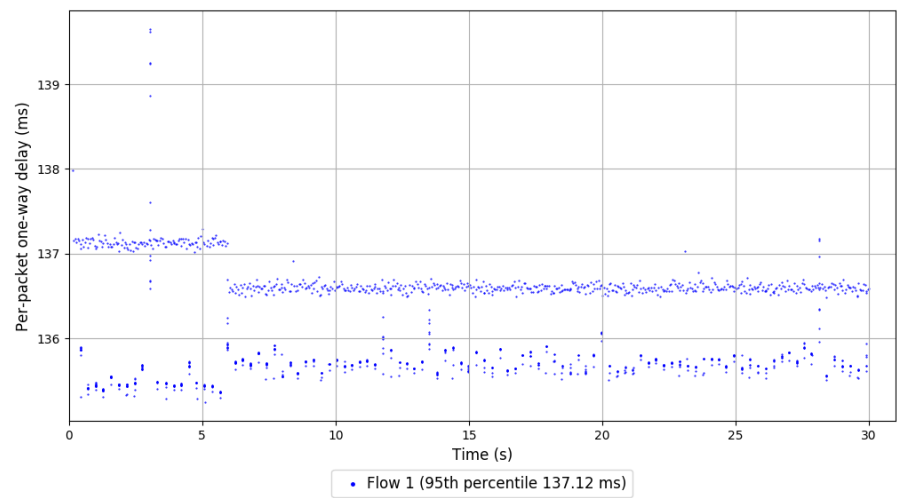
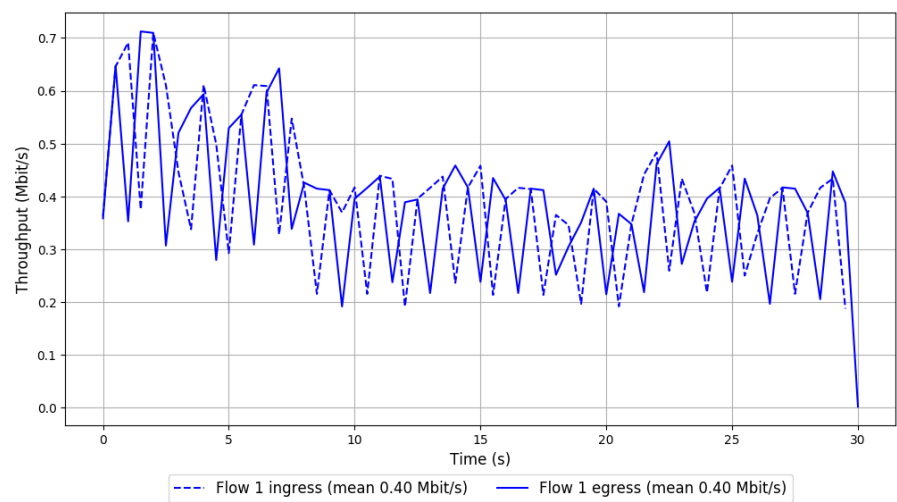
-- Flow 1:

Average throughput: 0.40 Mbit/s

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

Loss rate: 0.00%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2017-12-05 19:08:17

End at: 2017-12-05 19:08:47

Below is generated by plot.py at 2017-12-05 20:59:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.40 Mbit/s

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

Loss rate: 0.00%

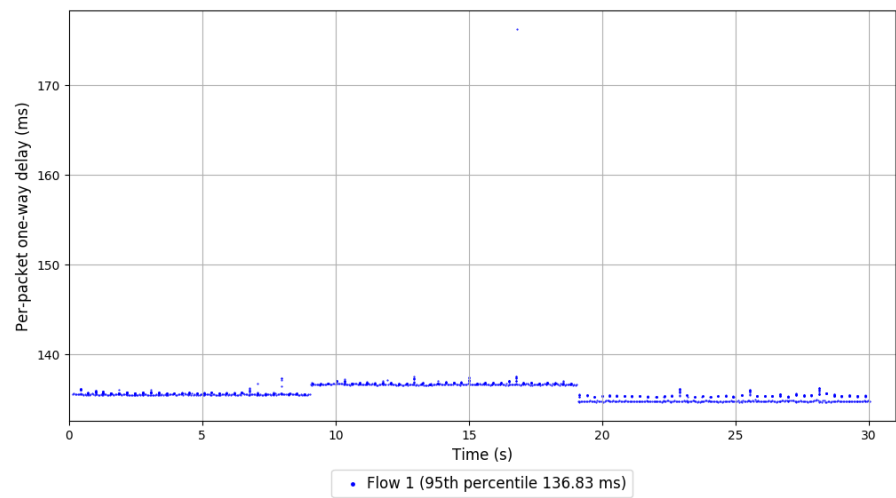
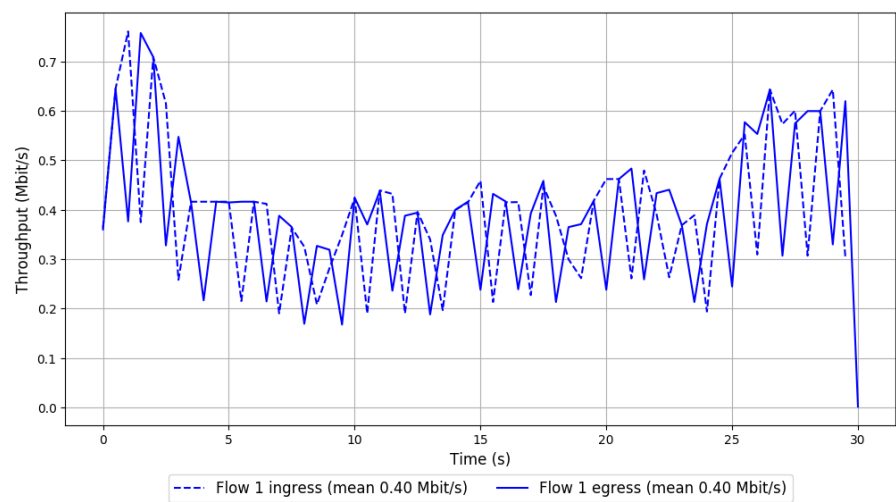
-- Flow 1:

Average throughput: 0.40 Mbit/s

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

Loss rate: 0.00%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2017-12-05 19:19:32

End at: 2017-12-05 19:20:02

Below is generated by plot.py at 2017-12-05 20:59:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.46 Mbit/s

95th percentile per-packet one-way delay: 137.208 ms

Loss rate: 0.00%

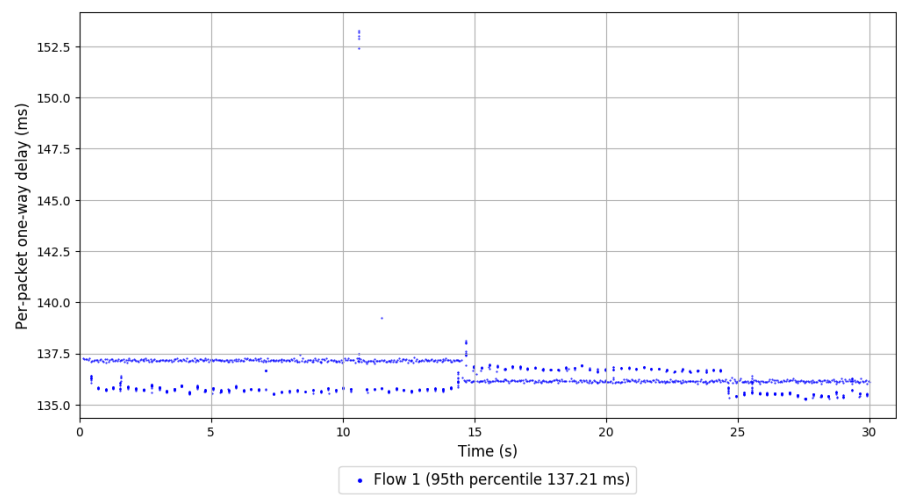
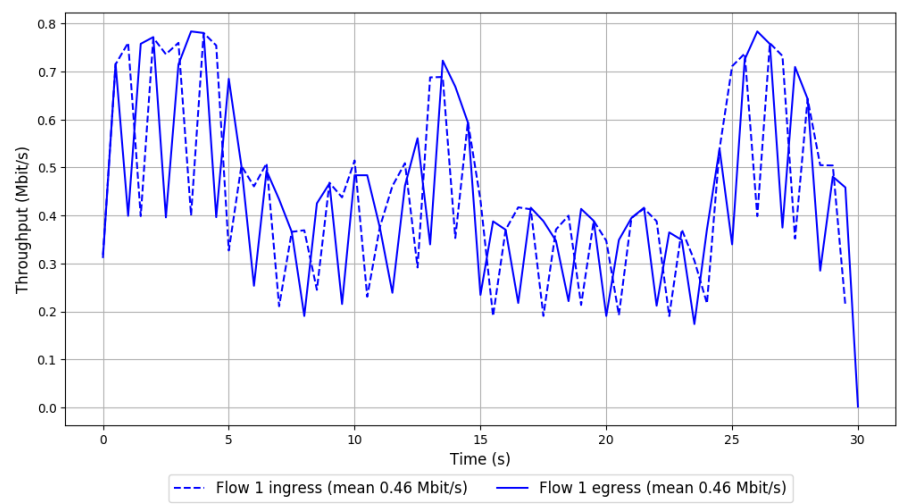
-- Flow 1:

Average throughput: 0.46 Mbit/s

95th percentile per-packet one-way delay: 137.208 ms

Loss rate: 0.00%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2017-12-05 19:31:08

End at: 2017-12-05 19:31:38

Below is generated by plot.py at 2017-12-05 20:59:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 136.927 ms

Loss rate: 0.00%

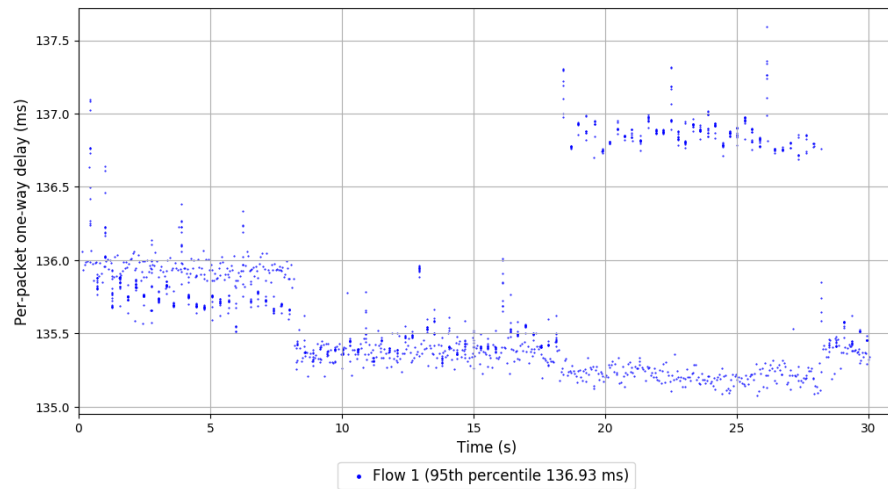
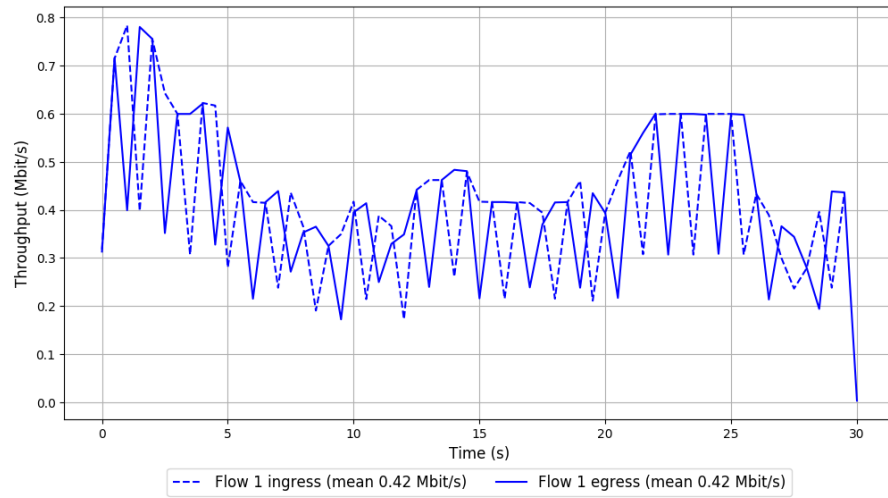
-- Flow 1:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 136.927 ms

Loss rate: 0.00%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2017-12-05 19:42:11

End at: 2017-12-05 19:42:41

Below is generated by plot.py at 2017-12-05 20:59:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 137.323 ms

Loss rate: 0.00%

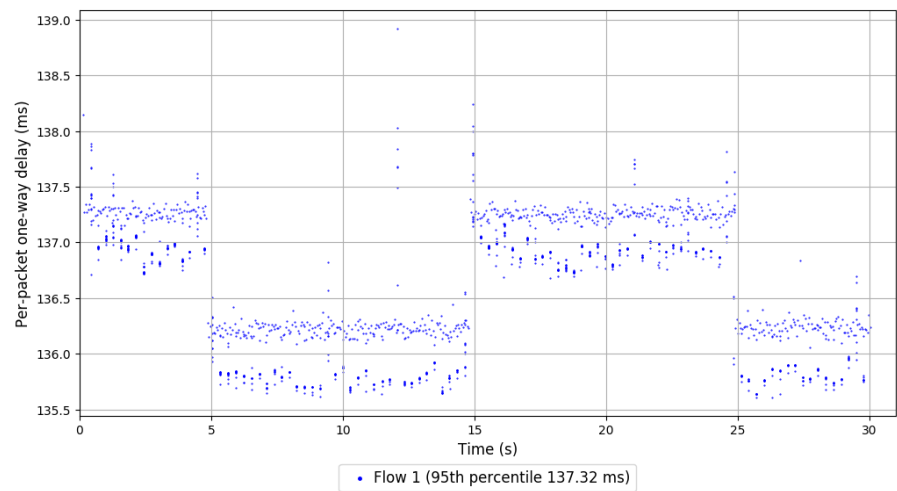
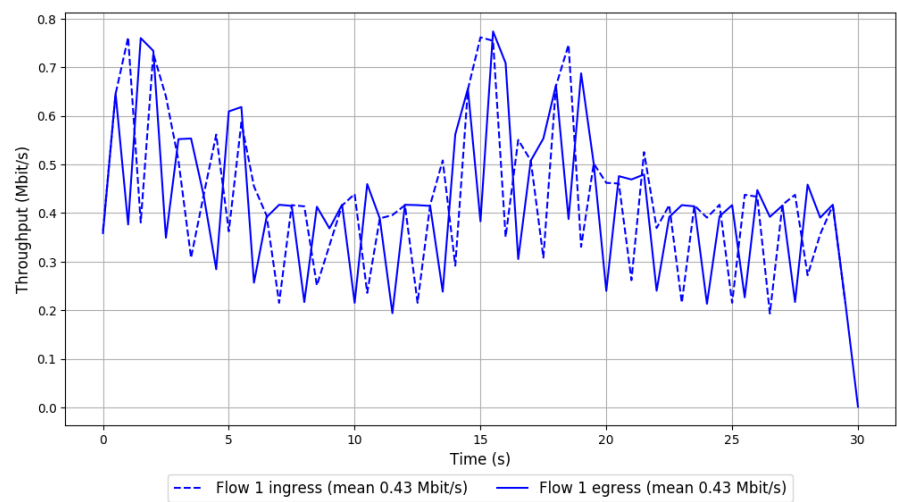
-- Flow 1:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 137.323 ms

Loss rate: 0.00%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2017-12-05 19:53:52

End at: 2017-12-05 19:54:22

Below is generated by plot.py at 2017-12-05 20:59:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.34 Mbit/s

95th percentile per-packet one-way delay: 137.028 ms

Loss rate: 0.00%

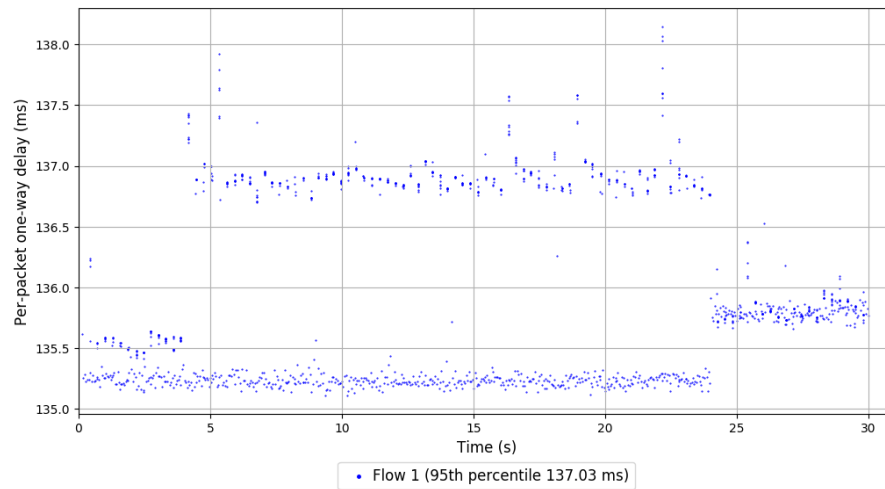
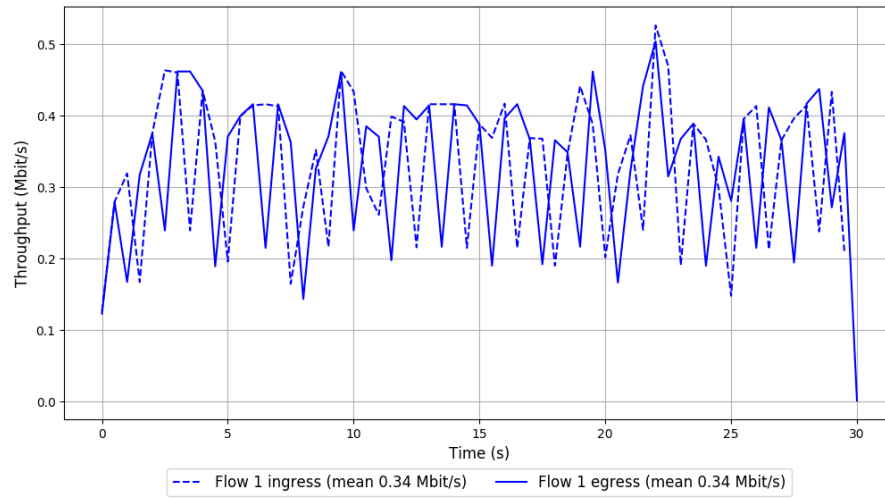
-- Flow 1:

Average throughput: 0.34 Mbit/s

95th percentile per-packet one-way delay: 137.028 ms

Loss rate: 0.00%

Run 10: Report of Sprout — Data Link

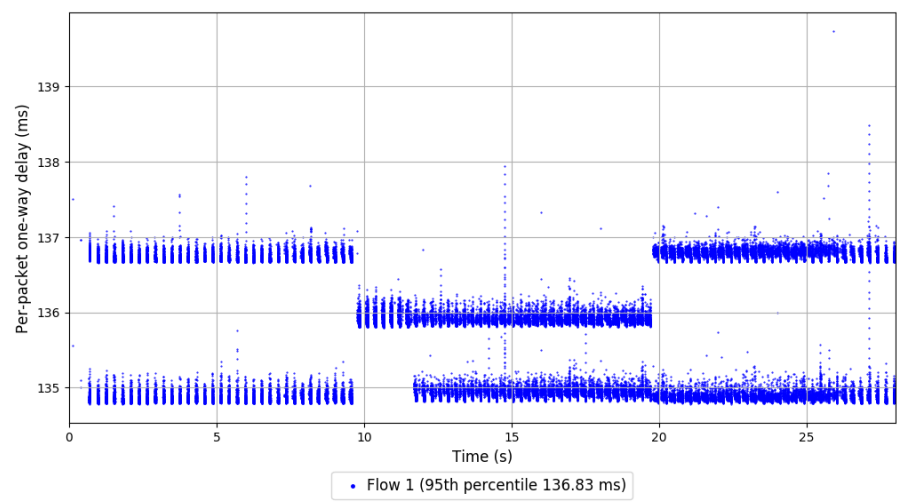
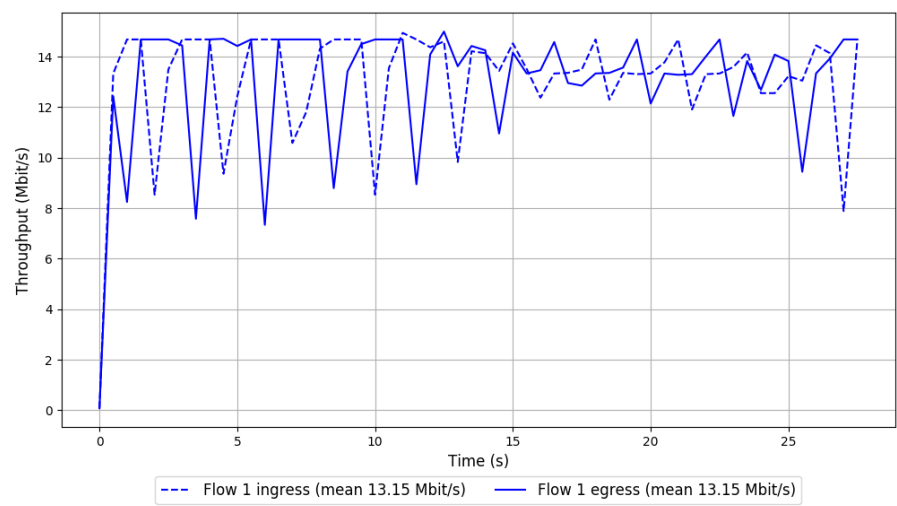


```
Run 1: Statistics of TaoVA-100x

Start at: 2017-12-05 18:17:14
End at: 2017-12-05 18:17:45

# Below is generated by plot.py at 2017-12-05 20:59:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 13.15 Mbit/s
95th percentile per-packet one-way delay: 136.830 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 13.15 Mbit/s
95th percentile per-packet one-way delay: 136.830 ms
Loss rate: 0.00%
```

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

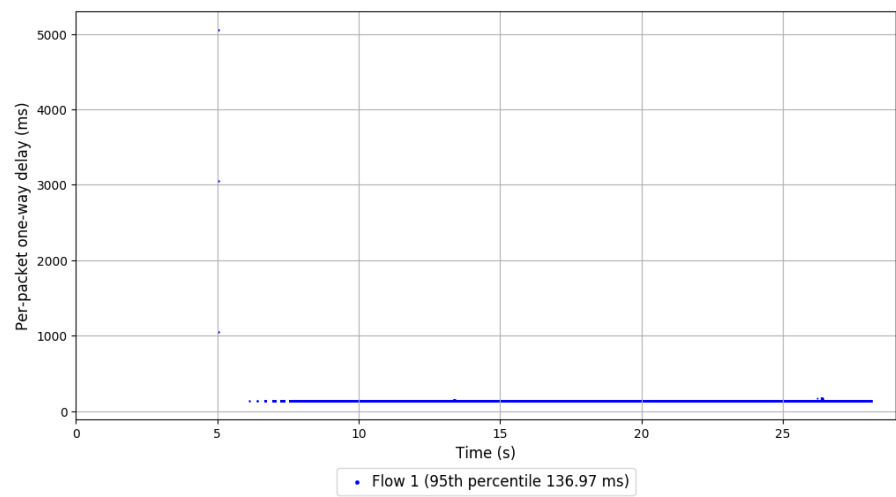
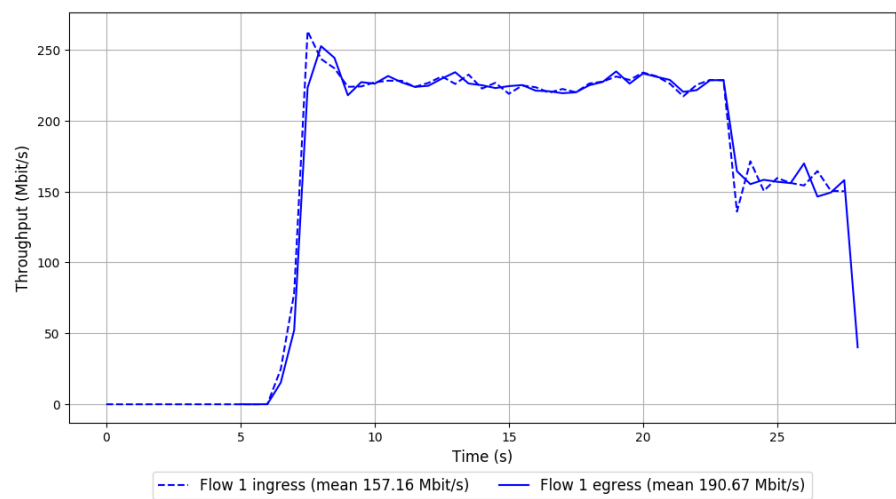


Run 2: Statistics of TaoVA-100x

Start at: 2017-12-05 18:28:11

End at: 2017-12-05 18:28:41

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



Run 3: Statistics of TaoVA-100x

Start at: 2017-12-05 18:39:38

End at: 2017-12-05 18:40:08

Below is generated by plot.py at 2017-12-05 20:59:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.23 Mbit/s

95th percentile per-packet one-way delay: 136.918 ms

Loss rate: 0.00%

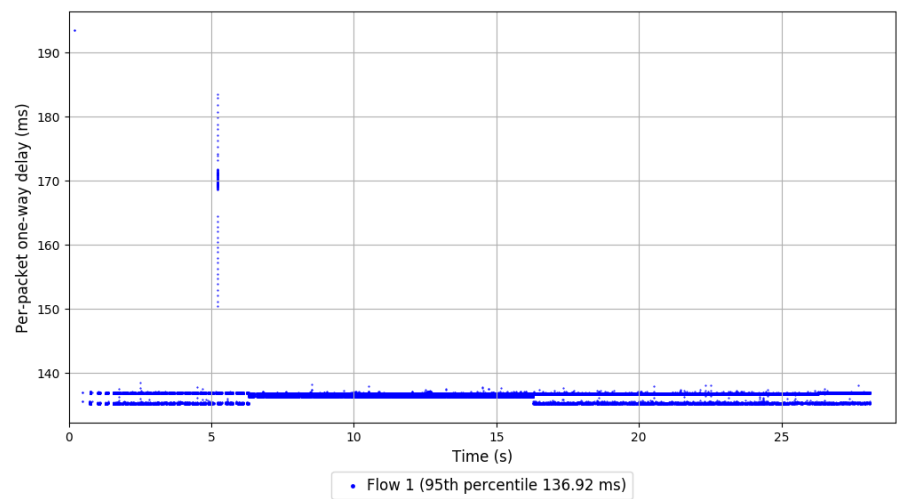
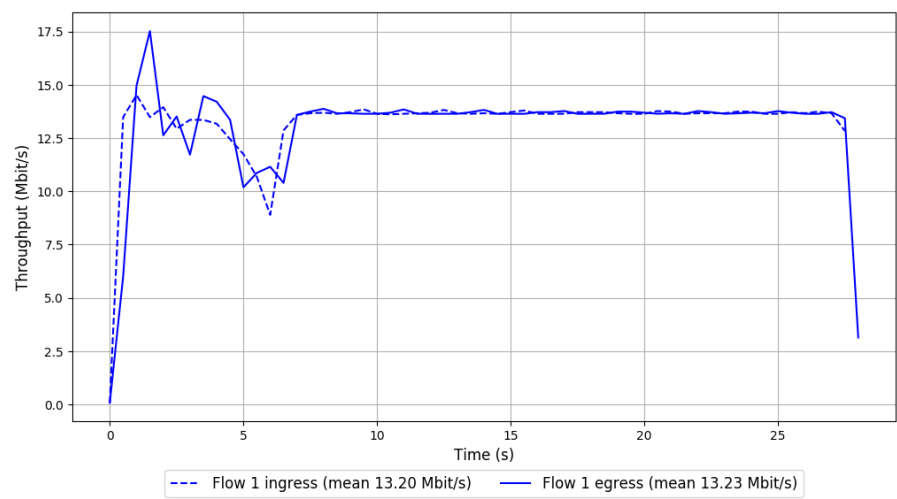
-- Flow 1:

Average throughput: 13.23 Mbit/s

95th percentile per-packet one-way delay: 136.918 ms

Loss rate: 0.00%

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



Run 4: Statistics of TaoVA-100x

Start at: 2017-12-05 18:50:49

End at: 2017-12-05 18:51:19

Below is generated by plot.py at 2017-12-05 20:59:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 62.27 Mbit/s

95th percentile per-packet one-way delay: 137.940 ms

Loss rate: 0.00%

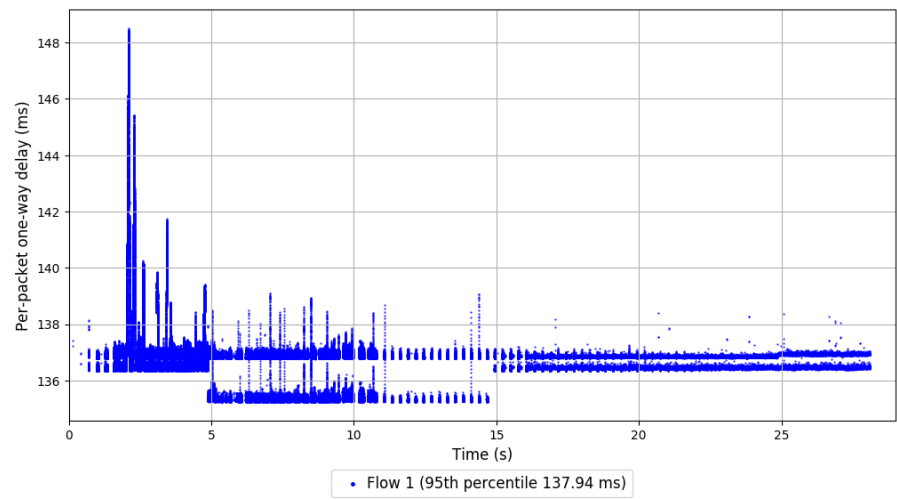
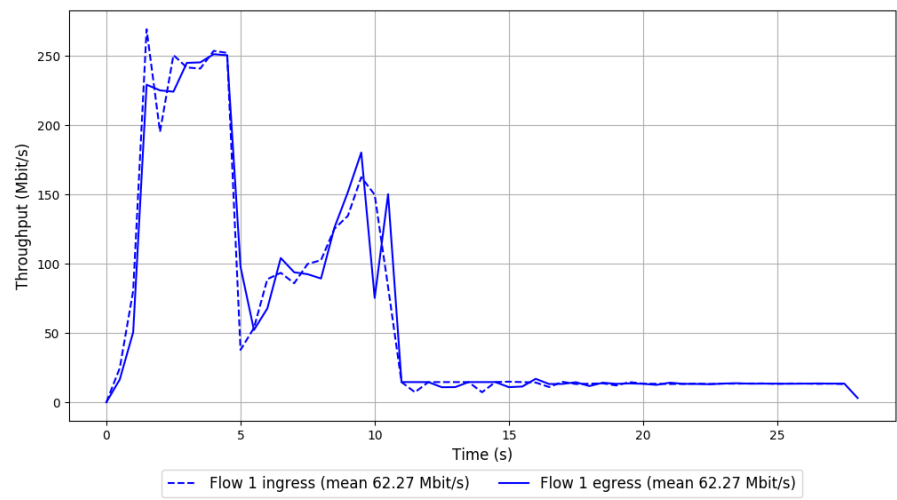
-- Flow 1:

Average throughput: 62.27 Mbit/s

95th percentile per-packet one-way delay: 137.940 ms

Loss rate: 0.00%

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



Run 5: Statistics of TaoVA-100x

Start at: 2017-12-05 19:02:04

End at: 2017-12-05 19:02:34

Below is generated by plot.py at 2017-12-05 20:59:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.27 Mbit/s

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

Loss rate: 0.00%

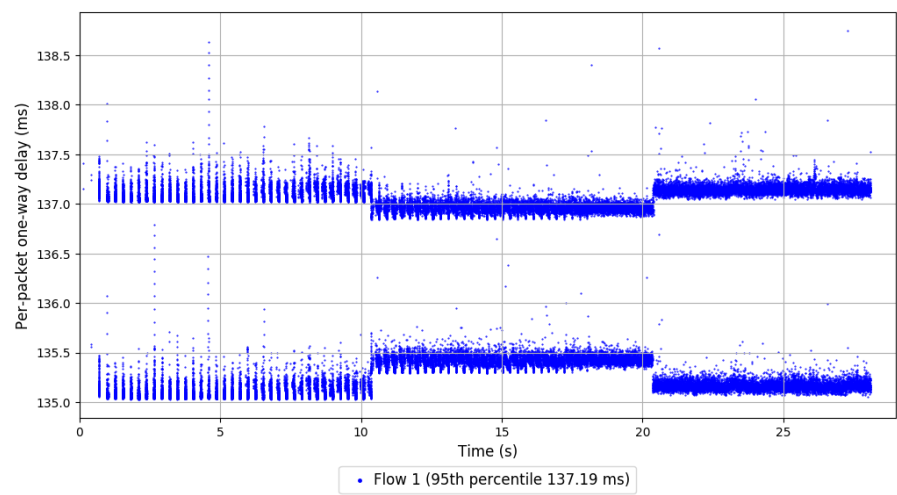
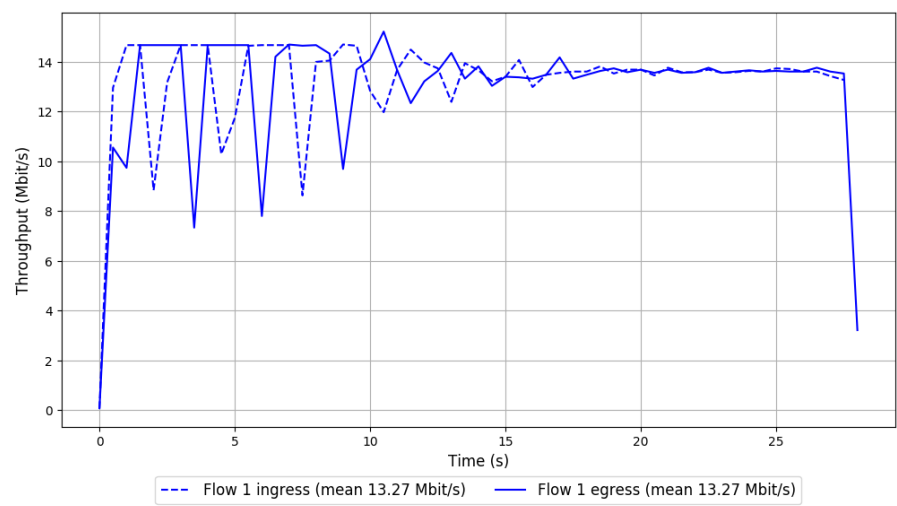
-- Flow 1:

Average throughput: 13.27 Mbit/s

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

Loss rate: 0.00%

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



Run 6: Statistics of TaoVA-100x

Start at: 2017-12-05 19:13:19

End at: 2017-12-05 19:13:49

Below is generated by plot.py at 2017-12-05 20:59:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.62 Mbit/s

95th percentile per-packet one-way delay: 136.626 ms

Loss rate: 3.83%

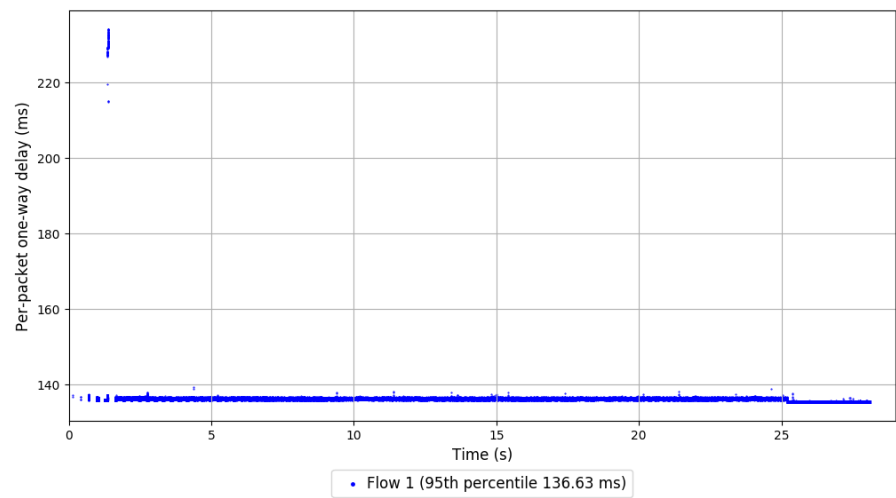
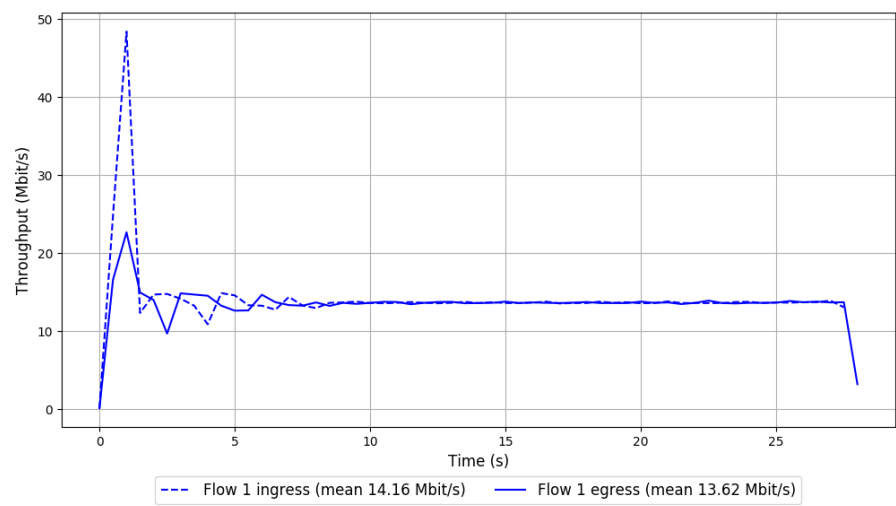
-- Flow 1:

Average throughput: 13.62 Mbit/s

95th percentile per-packet one-way delay: 136.626 ms

Loss rate: 3.83%

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



Run 7: Statistics of TaoVA-100x

Start at: 2017-12-05 19:24:36

End at: 2017-12-05 19:25:06

Below is generated by plot.py at 2017-12-05 20:59:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 206.51 Mbit/s

95th percentile per-packet one-way delay: 136.754 ms

Loss rate: 0.00%

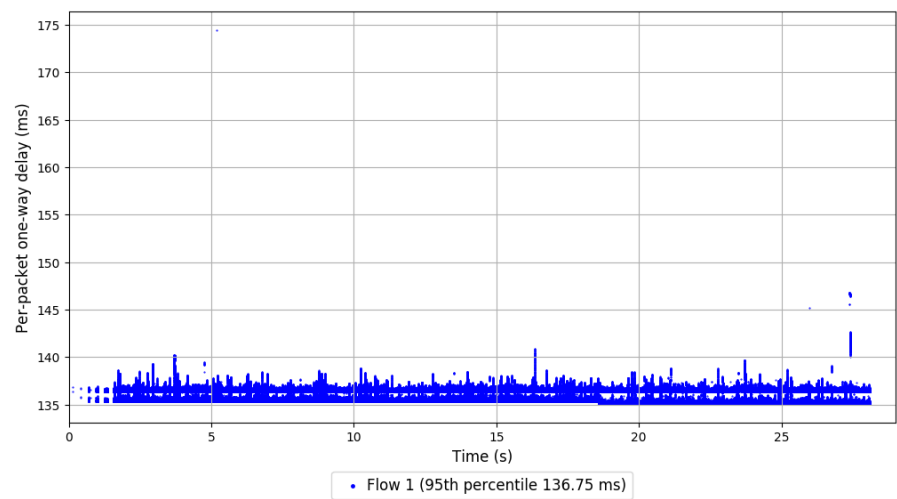
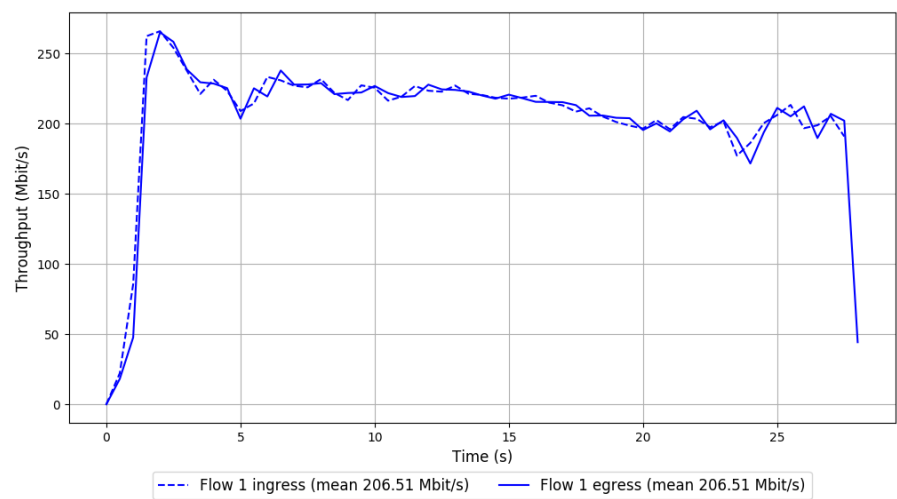
-- Flow 1:

Average throughput: 206.51 Mbit/s

95th percentile per-packet one-way delay: 136.754 ms

Loss rate: 0.00%

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



Run 8: Statistics of TaoVA-100x

Start at: 2017-12-05 19:36:02

End at: 2017-12-05 19:36:32

Below is generated by plot.py at 2017-12-05 20:59:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.60 Mbit/s

95th percentile per-packet one-way delay: 137.090 ms

Loss rate: 0.00%

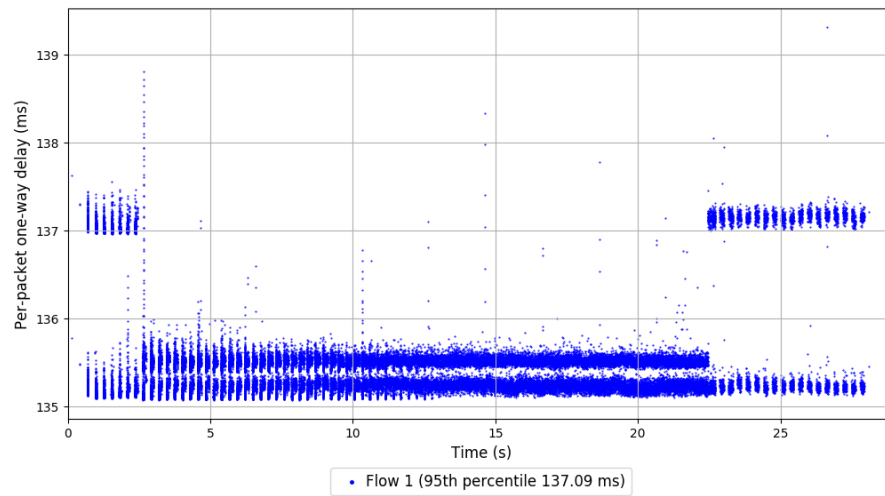
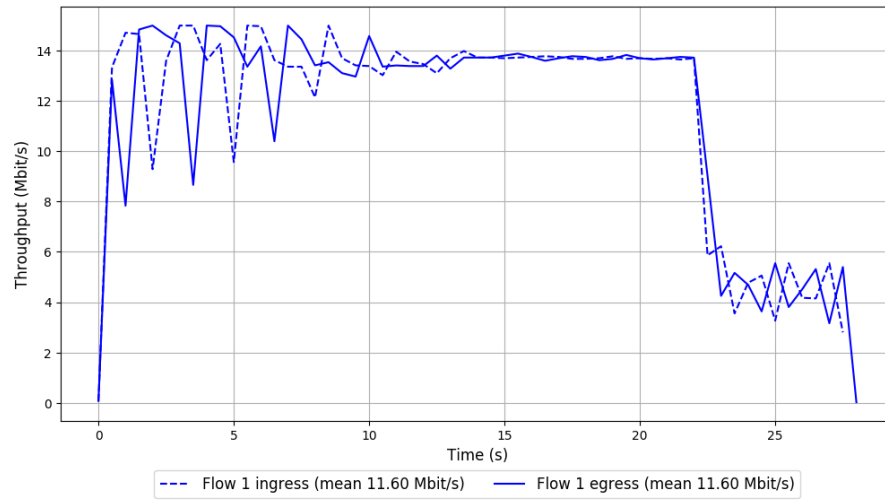
-- Flow 1:

Average throughput: 11.60 Mbit/s

95th percentile per-packet one-way delay: 137.090 ms

Loss rate: 0.00%

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



Run 9: Statistics of TaoVA-100x

Start at: 2017-12-05 19:47:13

End at: 2017-12-05 19:47:43

Below is generated by plot.py at 2017-12-05 20:59:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 209.80 Mbit/s

95th percentile per-packet one-way delay: 137.644 ms

Loss rate: 0.00%

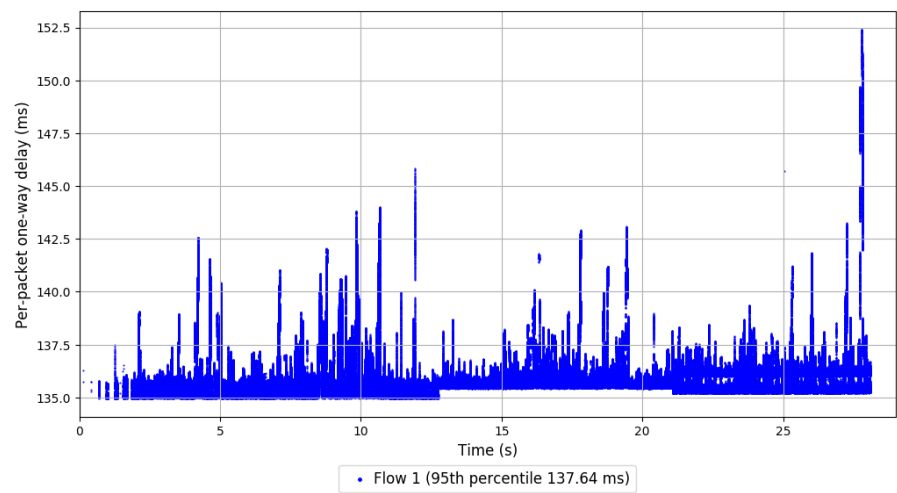
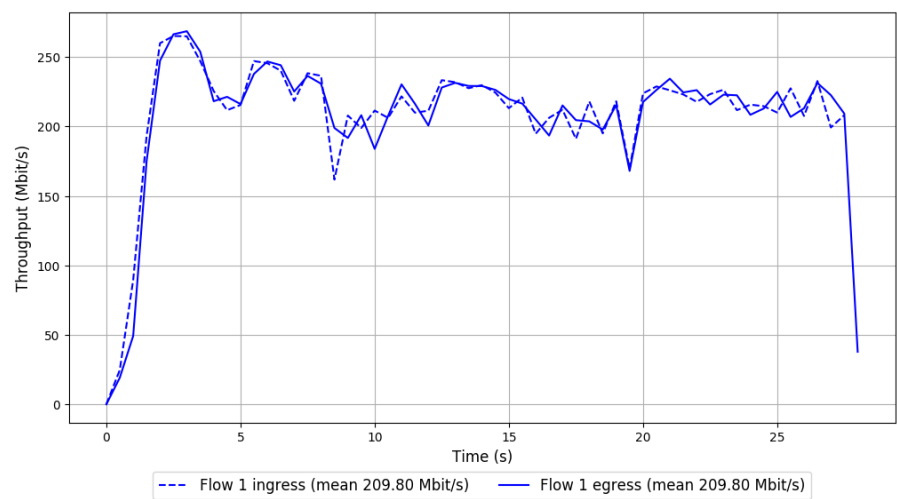
-- Flow 1:

Average throughput: 209.80 Mbit/s

95th percentile per-packet one-way delay: 137.644 ms

Loss rate: 0.00%

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

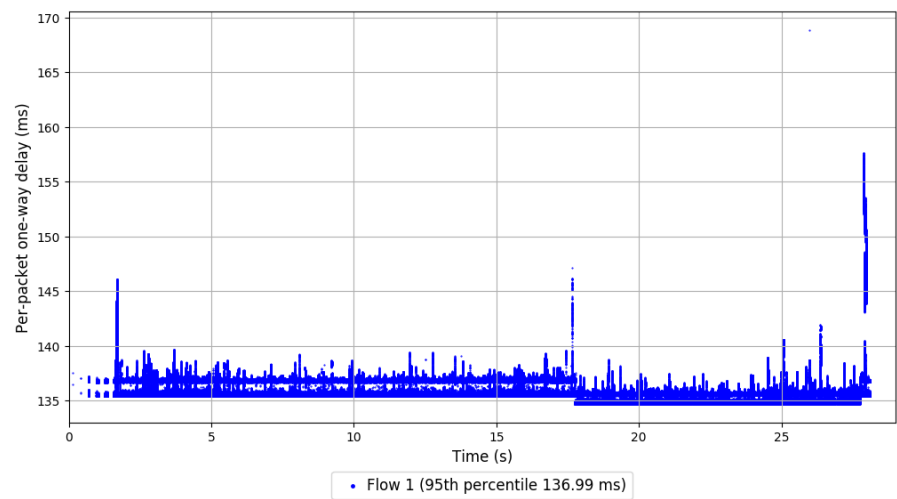
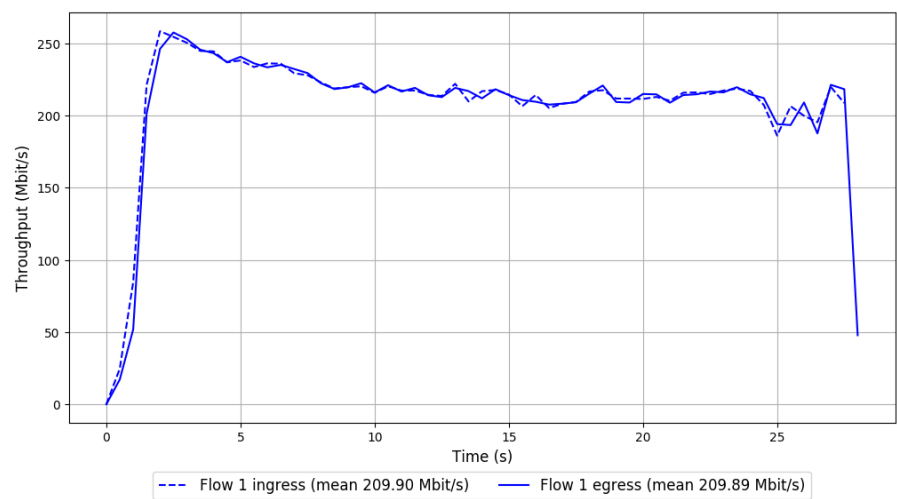


```
Run 10: Statistics of TaoVA-100x

Start at: 2017-12-05 19:58:57
End at: 2017-12-05 19:59:27

# Below is generated by plot.py at 2017-12-05 20:59:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 209.89 Mbit/s
95th percentile per-packet one-way delay: 136.985 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 209.89 Mbit/s
95th percentile per-packet one-way delay: 136.985 ms
Loss rate: 0.01%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2017-12-05 18:21:52

End at: 2017-12-05 18:22:22

Below is generated by plot.py at 2017-12-05 20:59:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 22.97 Mbit/s

95th percentile per-packet one-way delay: 165.056 ms

Loss rate: 0.02%

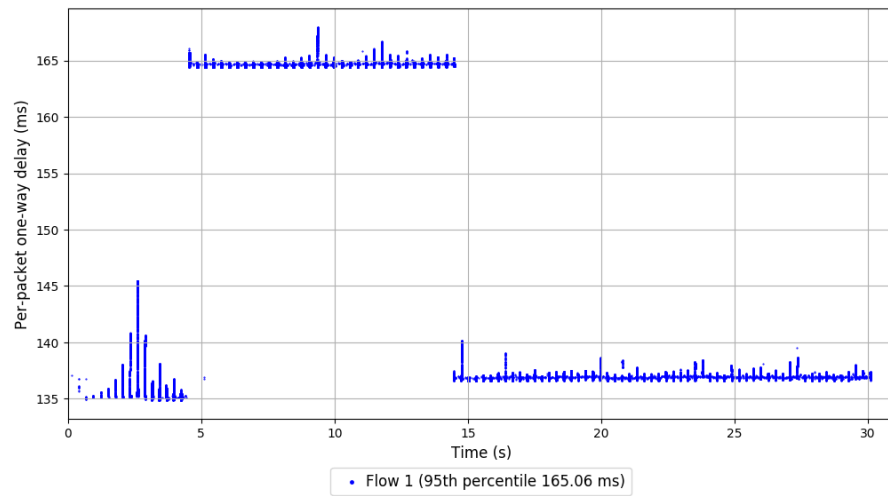
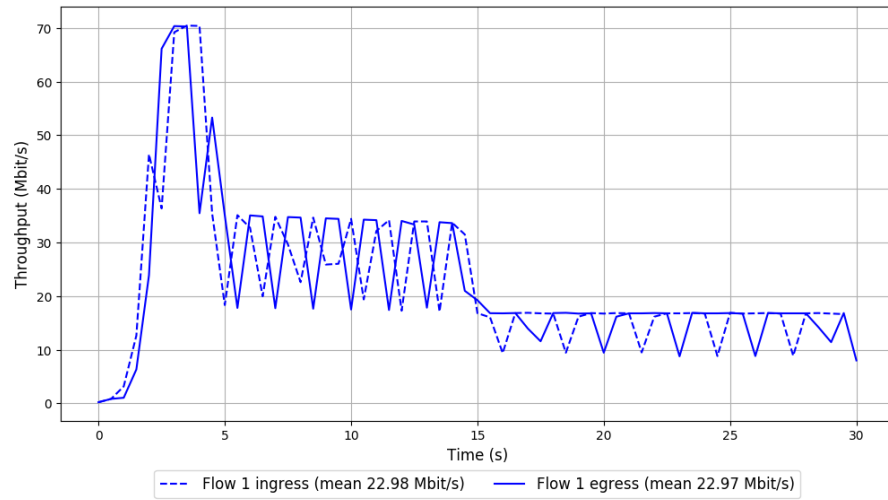
-- Flow 1:

Average throughput: 22.97 Mbit/s

95th percentile per-packet one-way delay: 165.056 ms

Loss rate: 0.02%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2017-12-05 18:33:06

End at: 2017-12-05 18:33:36

Below is generated by plot.py at 2017-12-05 20:59:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 30.31 Mbit/s

95th percentile per-packet one-way delay: 140.434 ms

Loss rate: 0.03%

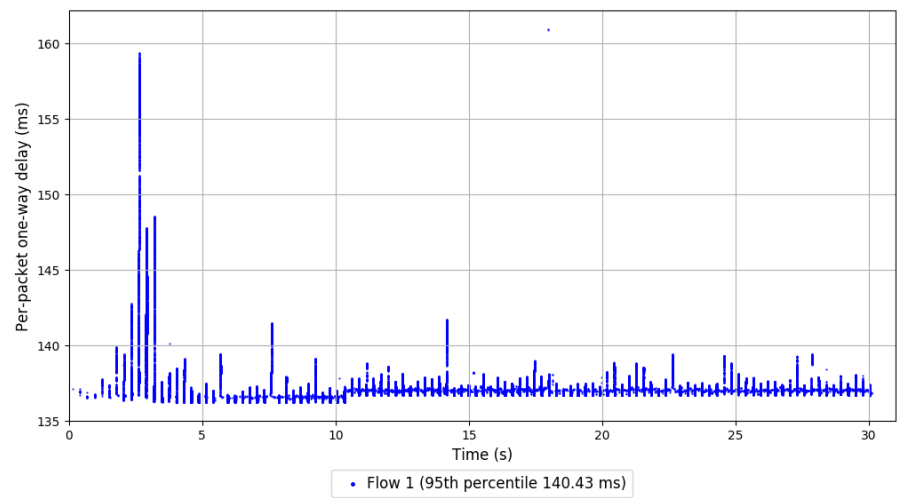
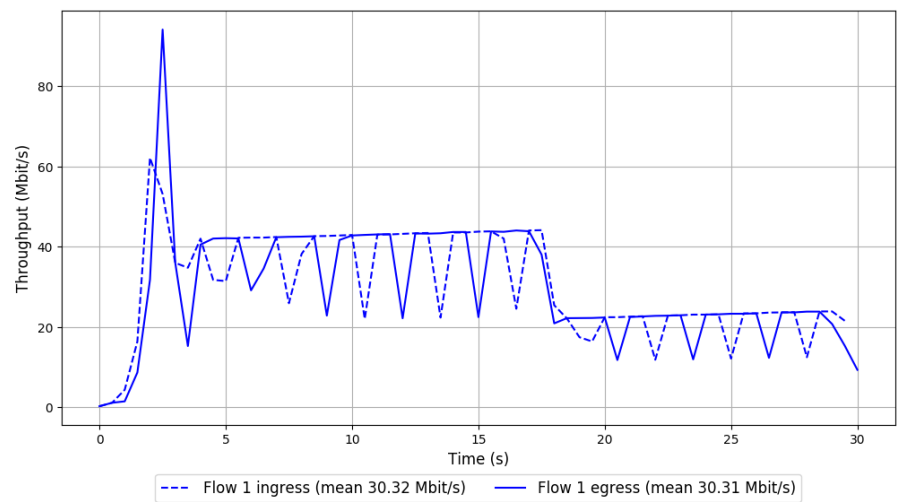
-- Flow 1:

Average throughput: 30.31 Mbit/s

95th percentile per-packet one-way delay: 140.434 ms

Loss rate: 0.03%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2017-12-05 18:44:19

End at: 2017-12-05 18:44:49

Below is generated by plot.py at 2017-12-05 20:59:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 28.92 Mbit/s

95th percentile per-packet one-way delay: 138.717 ms

Loss rate: 0.02%

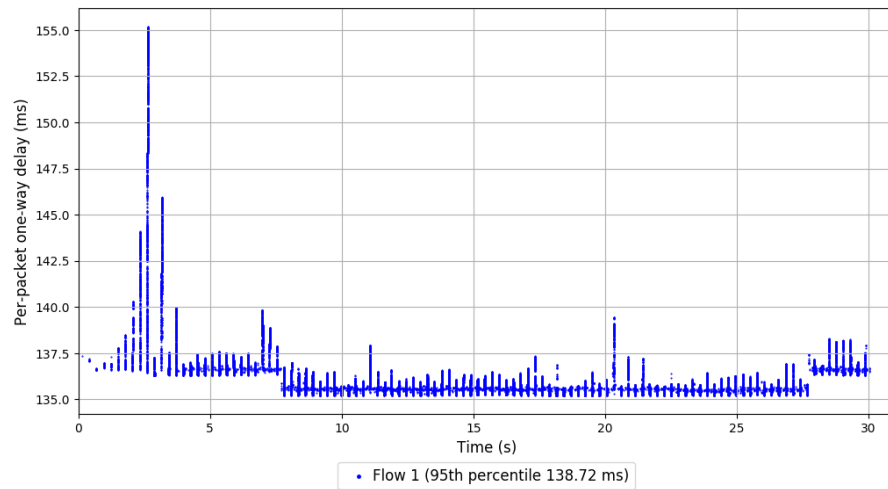
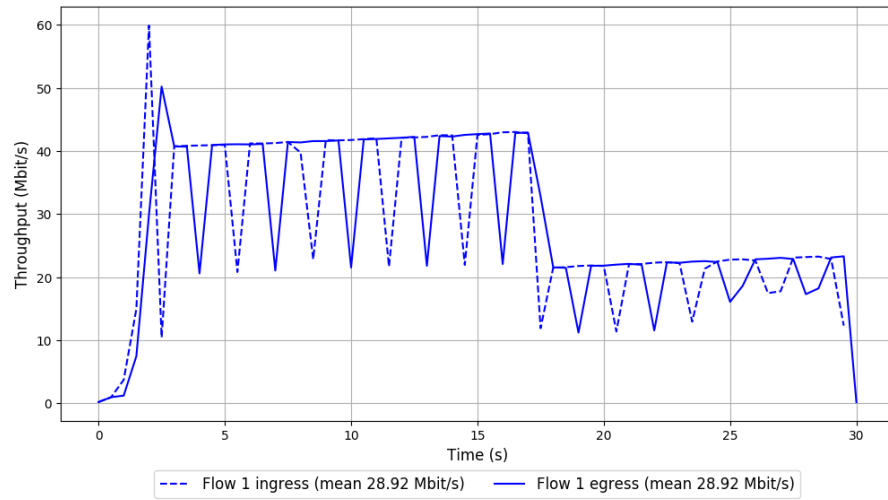
-- Flow 1:

Average throughput: 28.92 Mbit/s

95th percentile per-packet one-way delay: 138.717 ms

Loss rate: 0.02%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2017-12-05 18:55:43

End at: 2017-12-05 18:56:13

Below is generated by plot.py at 2017-12-05 20:59:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 10.33 Mbit/s

95th percentile per-packet one-way delay: 137.627 ms

Loss rate: 0.06%

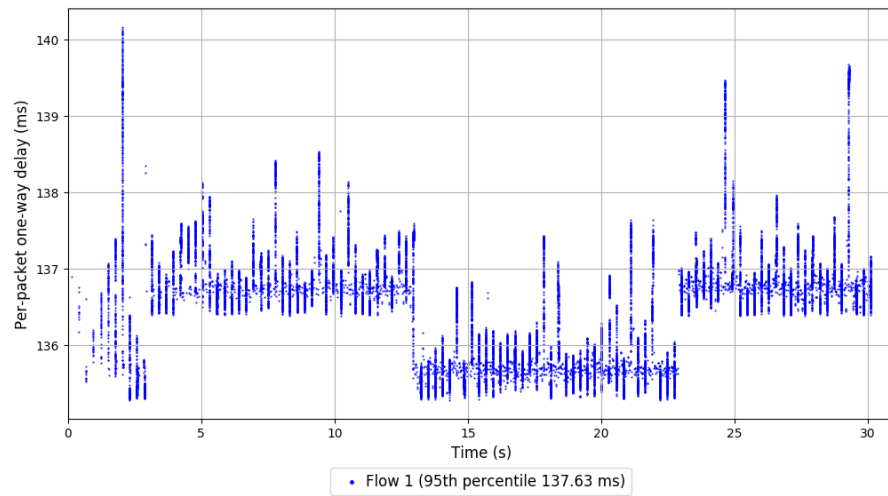
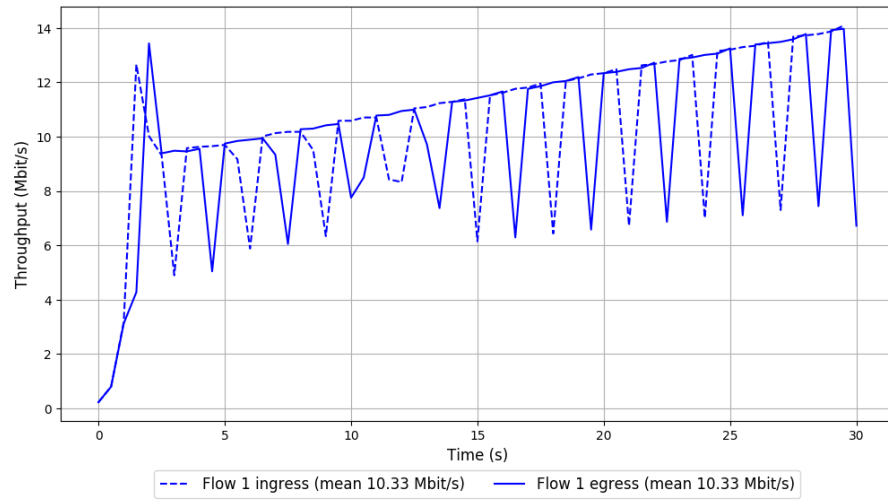
-- Flow 1:

Average throughput: 10.33 Mbit/s

95th percentile per-packet one-way delay: 137.627 ms

Loss rate: 0.06%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2017-12-05 19:06:50

End at: 2017-12-05 19:07:20

Below is generated by plot.py at 2017-12-05 20:59:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 14.36 Mbit/s

95th percentile per-packet one-way delay: 137.751 ms

Loss rate: 0.04%

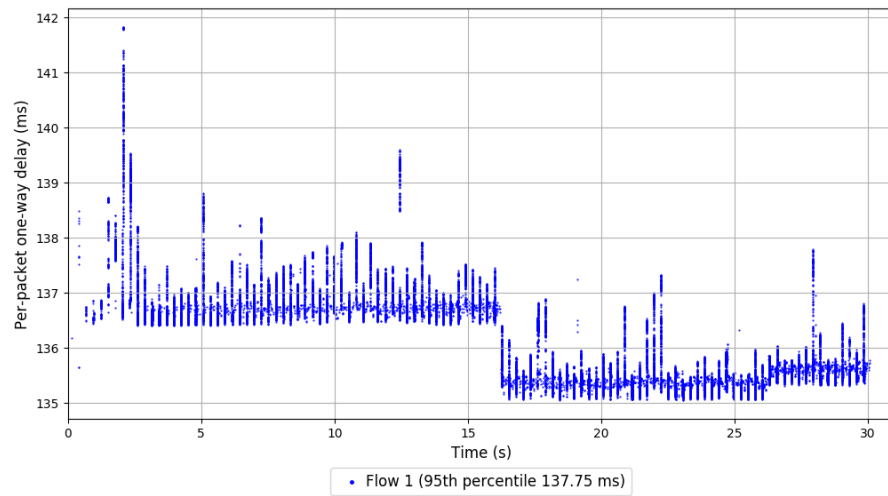
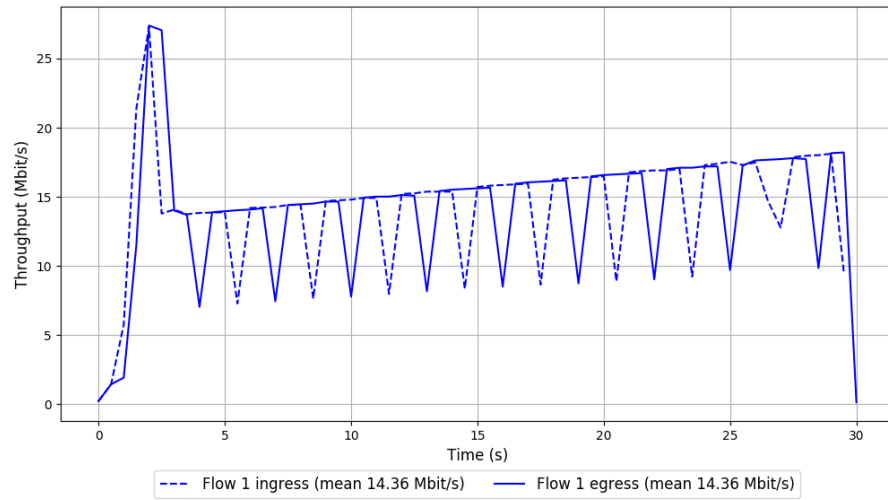
-- Flow 1:

Average throughput: 14.36 Mbit/s

95th percentile per-packet one-way delay: 137.751 ms

Loss rate: 0.04%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2017-12-05 19:18:04

End at: 2017-12-05 19:18:34

Below is generated by plot.py at 2017-12-05 20:59:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 20.53 Mbit/s

95th percentile per-packet one-way delay: 142.551 ms

Loss rate: 0.02%

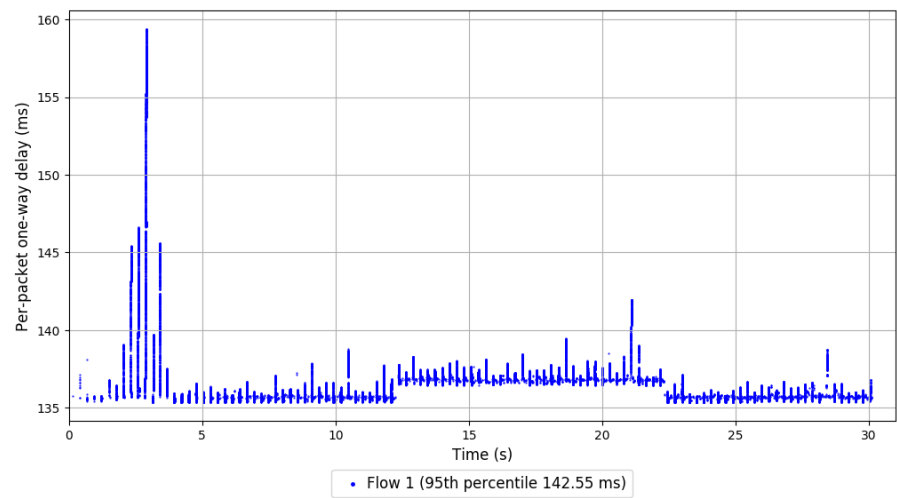
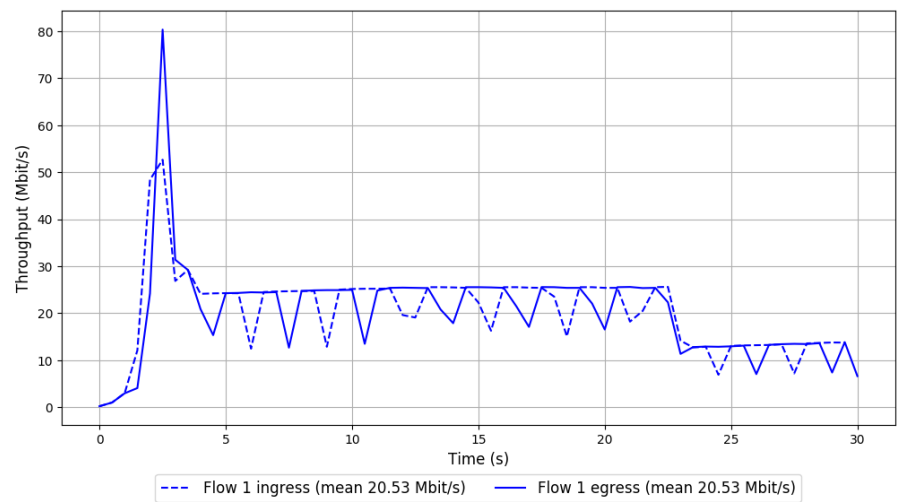
-- Flow 1:

Average throughput: 20.53 Mbit/s

95th percentile per-packet one-way delay: 142.551 ms

Loss rate: 0.02%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2017-12-05 19:29:42

End at: 2017-12-05 19:30:12

Below is generated by plot.py at 2017-12-05 20:59:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.75 Mbit/s

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

Loss rate: 0.05%

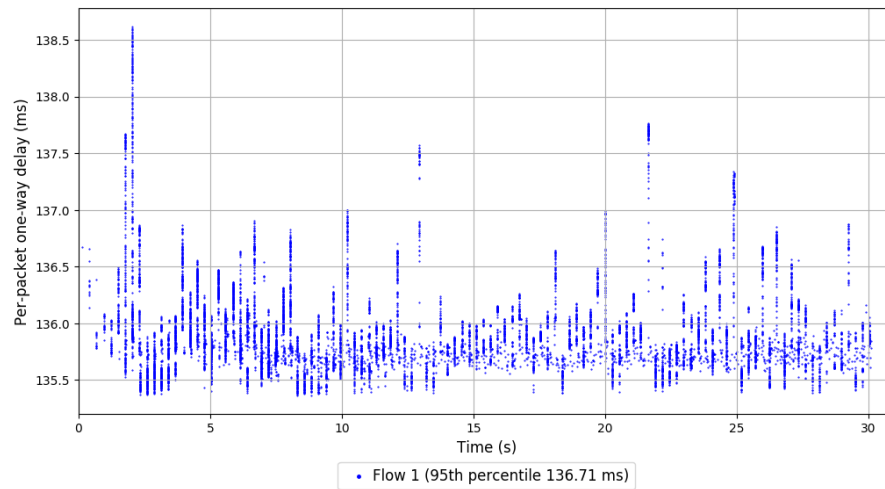
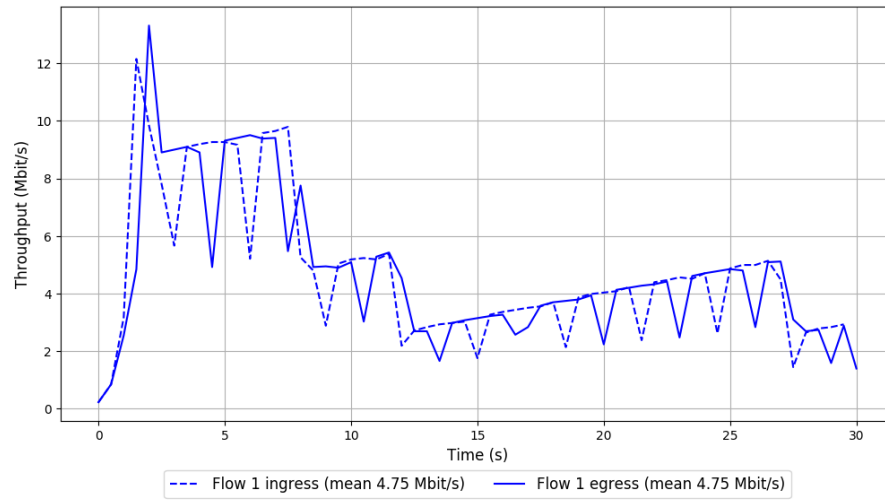
-- Flow 1:

Average throughput: 4.75 Mbit/s

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

Loss rate: 0.05%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2017-12-05 19:40:44

End at: 2017-12-05 19:41:14

Below is generated by plot.py at 2017-12-05 20:59:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 24.30 Mbit/s

95th percentile per-packet one-way delay: 152.128 ms

Loss rate: 0.03%

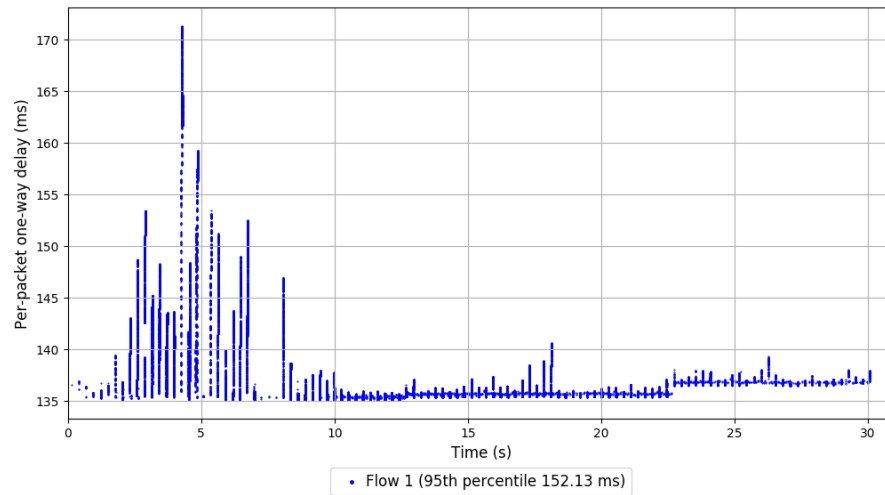
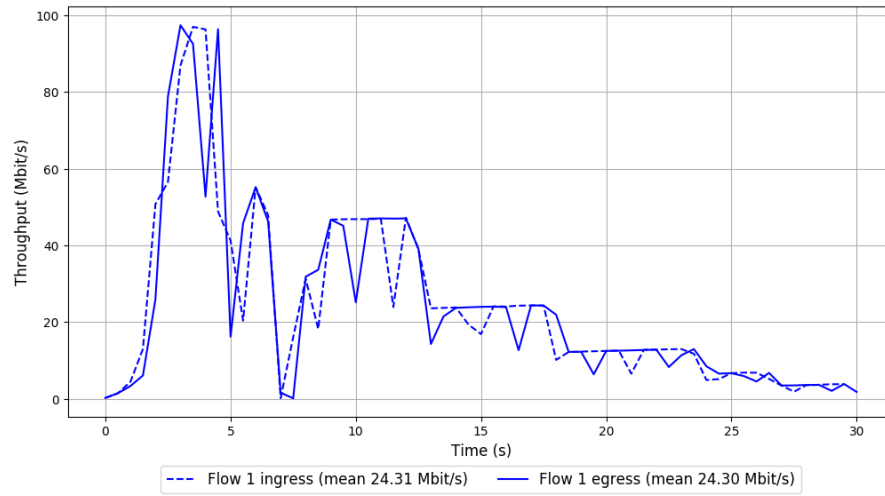
-- Flow 1:

Average throughput: 24.30 Mbit/s

95th percentile per-packet one-way delay: 152.128 ms

Loss rate: 0.03%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2017-12-05 19:52:23

End at: 2017-12-05 19:52:53

Below is generated by plot.py at 2017-12-05 20:59:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 49.18 Mbit/s

95th percentile per-packet one-way delay: 137.224 ms

Loss rate: 0.00%

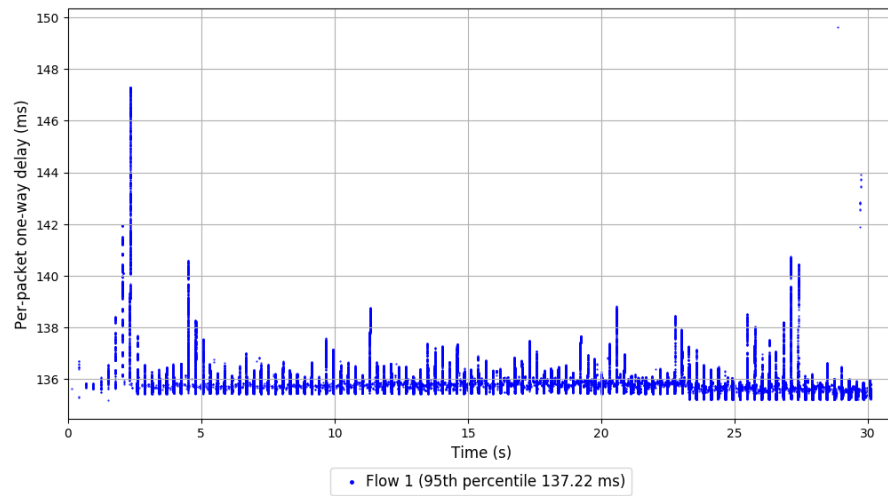
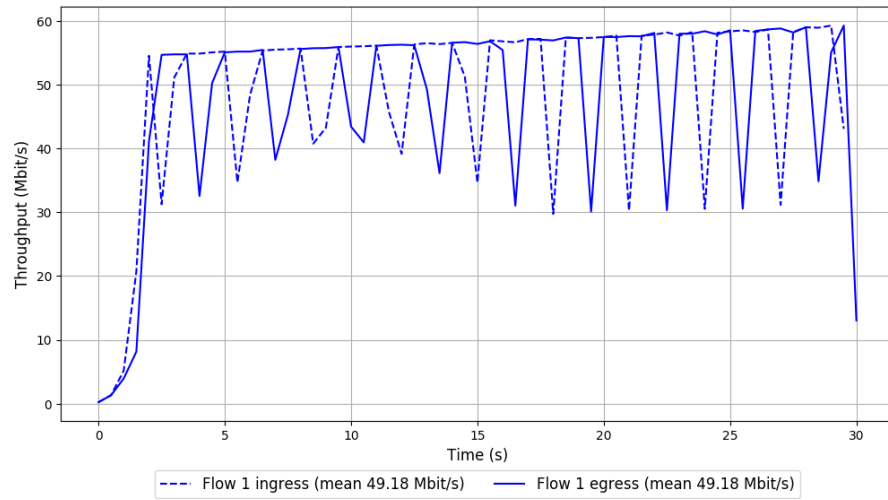
-- Flow 1:

Average throughput: 49.18 Mbit/s

95th percentile per-packet one-way delay: 137.224 ms

Loss rate: 0.00%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2017-12-05 20:04:07

End at: 2017-12-05 20:04:37

Below is generated by plot.py at 2017-12-05 20:59:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 47.38 Mbit/s

95th percentile per-packet one-way delay: 137.724 ms

Loss rate: 0.00%

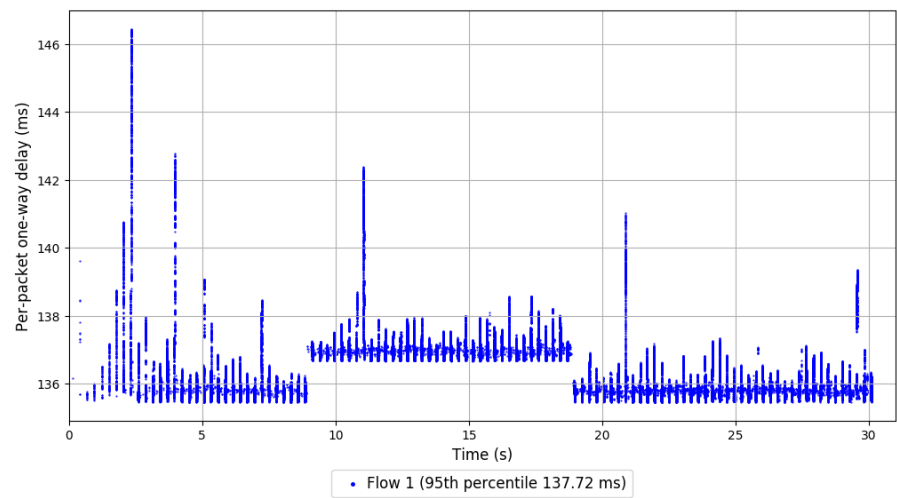
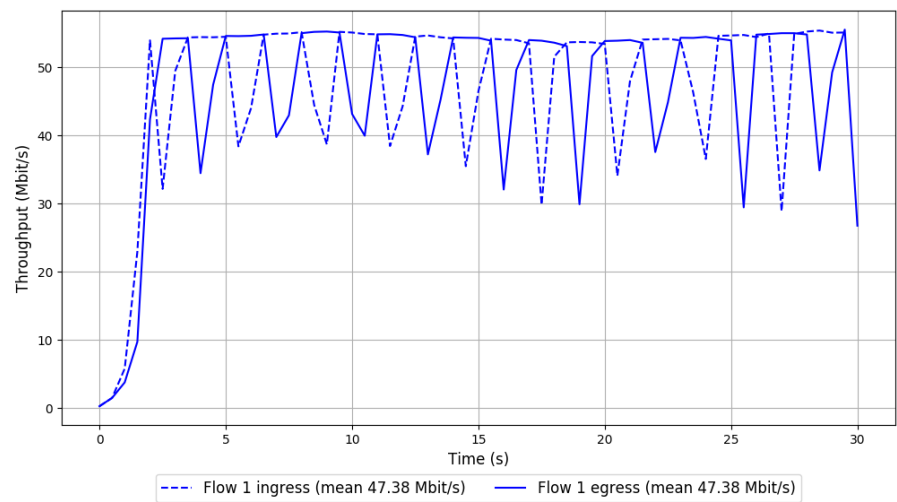
-- Flow 1:

Average throughput: 47.38 Mbit/s

95th percentile per-packet one-way delay: 137.724 ms

Loss rate: 0.00%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2017-12-05 18:18:41

End at: 2017-12-05 18:19:11

Below is generated by plot.py at 2017-12-05 20:59:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 152.26 Mbit/s

95th percentile per-packet one-way delay: 368.484 ms

Loss rate: 13.62%

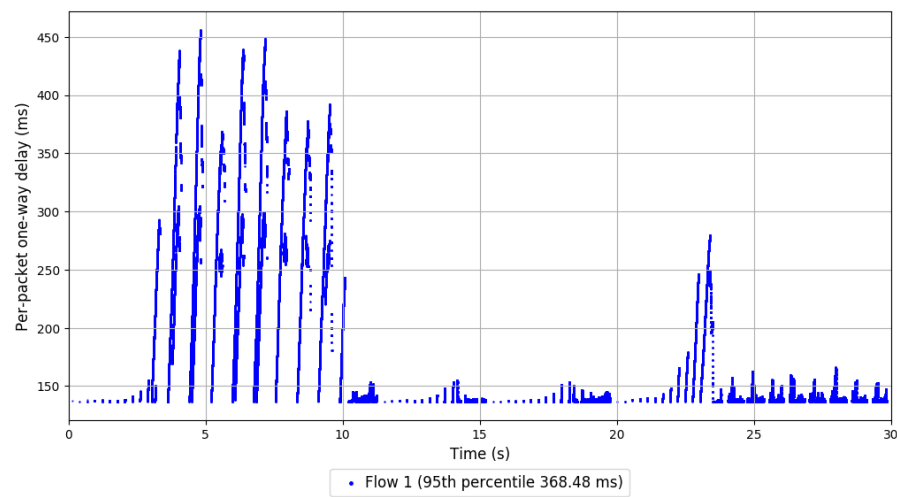
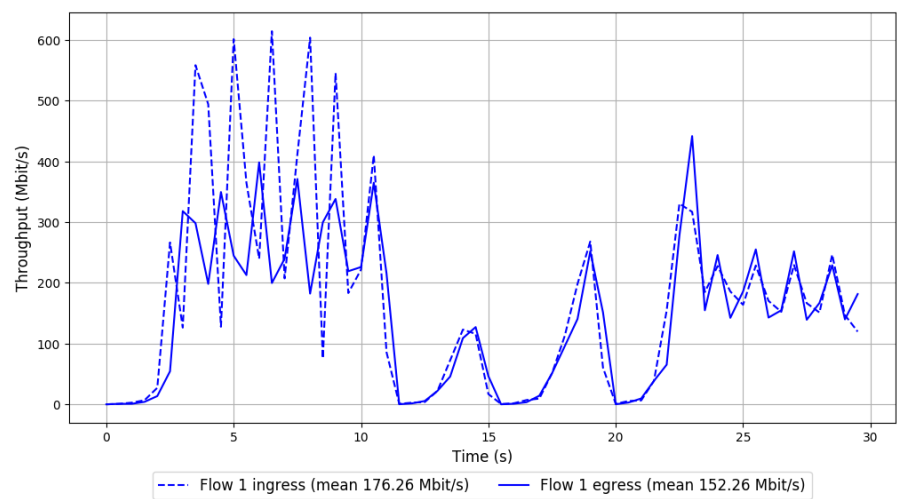
-- Flow 1:

Average throughput: 152.26 Mbit/s

95th percentile per-packet one-way delay: 368.484 ms

Loss rate: 13.62%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2017-12-05 18:29:52

End at: 2017-12-05 18:30:22

Below is generated by plot.py at 2017-12-05 20:59:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.46 Mbit/s

95th percentile per-packet one-way delay: 169.681 ms

Loss rate: 0.00%

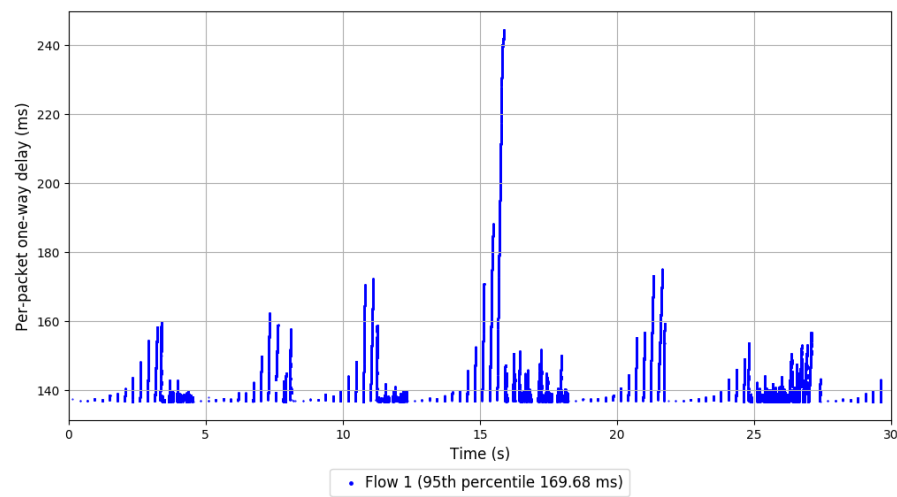
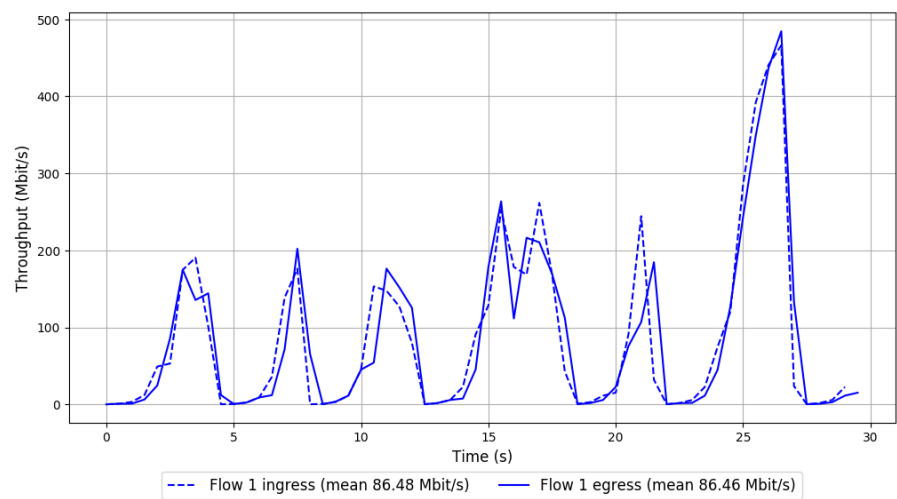
-- Flow 1:

Average throughput: 86.46 Mbit/s

95th percentile per-packet one-way delay: 169.681 ms

Loss rate: 0.00%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2017-12-05 18:41:05

End at: 2017-12-05 18:41:35

Below is generated by plot.py at 2017-12-05 20:59:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.22 Mbit/s

95th percentile per-packet one-way delay: 185.139 ms

Loss rate: 0.00%

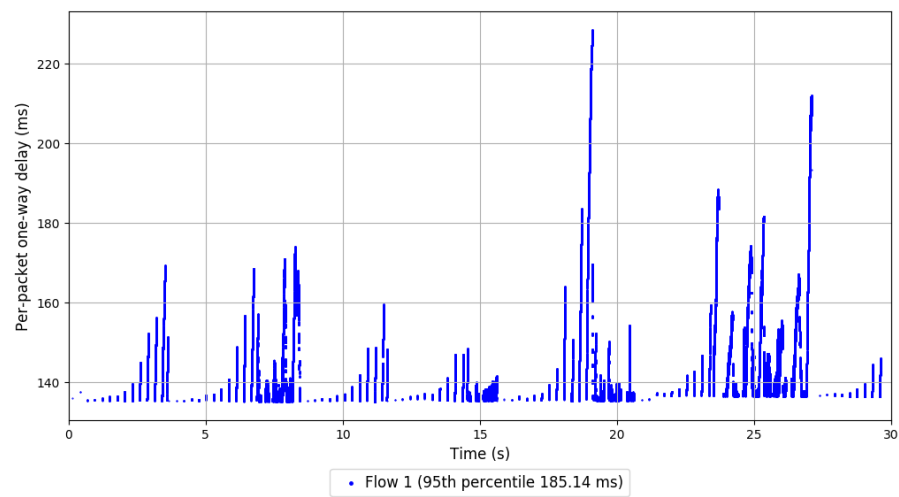
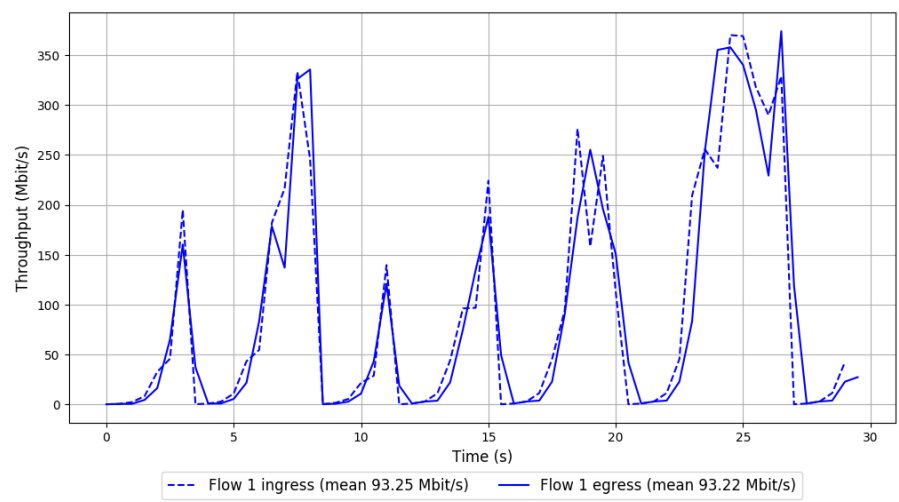
-- Flow 1:

Average throughput: 93.22 Mbit/s

95th percentile per-packet one-way delay: 185.139 ms

Loss rate: 0.00%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2017-12-05 18:52:21

End at: 2017-12-05 18:52:51

Below is generated by plot.py at 2017-12-05 21:01:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 214.90 Mbit/s

95th percentile per-packet one-way delay: 225.759 ms

Loss rate: 0.15%

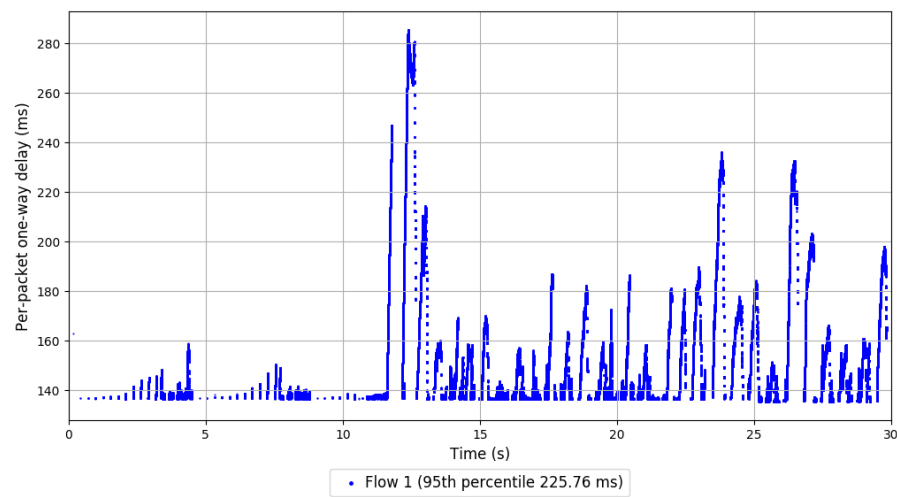
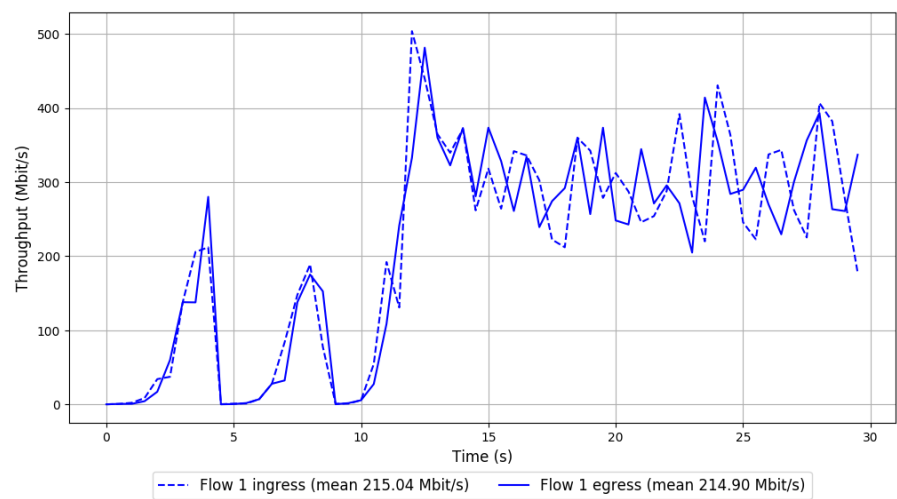
-- Flow 1:

Average throughput: 214.90 Mbit/s

95th percentile per-packet one-way delay: 225.759 ms

Loss rate: 0.15%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2017-12-05 19:03:31

End at: 2017-12-05 19:04:01

Below is generated by plot.py at 2017-12-05 21:01:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 180.86 Mbit/s

95th percentile per-packet one-way delay: 219.666 ms

Loss rate: 0.29%

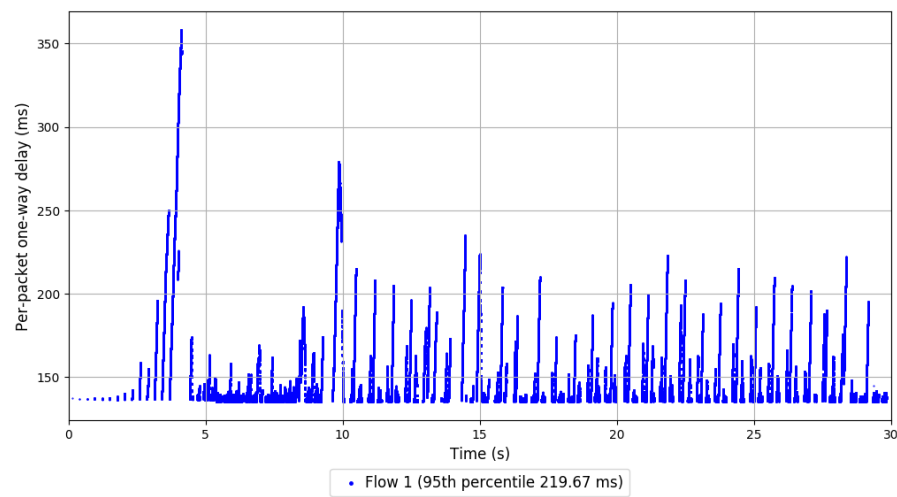
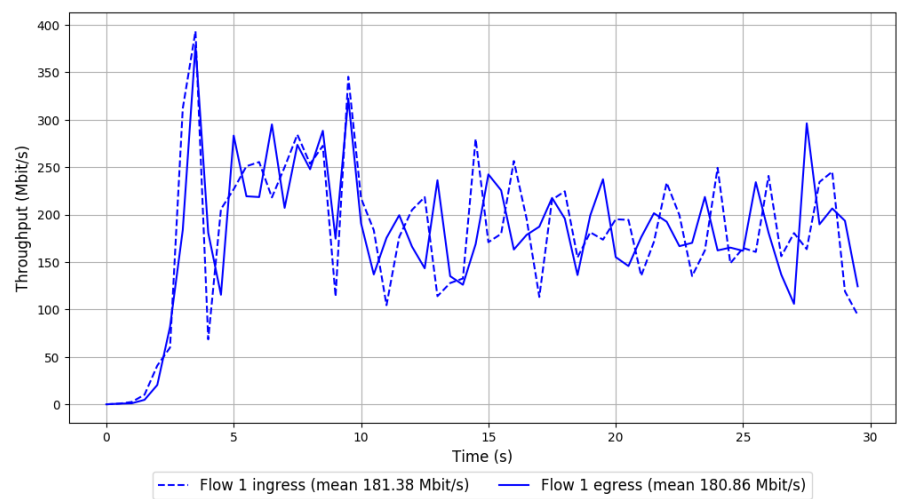
-- Flow 1:

Average throughput: 180.86 Mbit/s

95th percentile per-packet one-way delay: 219.666 ms

Loss rate: 0.29%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2017-12-05 19:14:46

End at: 2017-12-05 19:15:16

Below is generated by plot.py at 2017-12-05 21:01:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 165.71 Mbit/s

95th percentile per-packet one-way delay: 218.466 ms

Loss rate: 0.42%

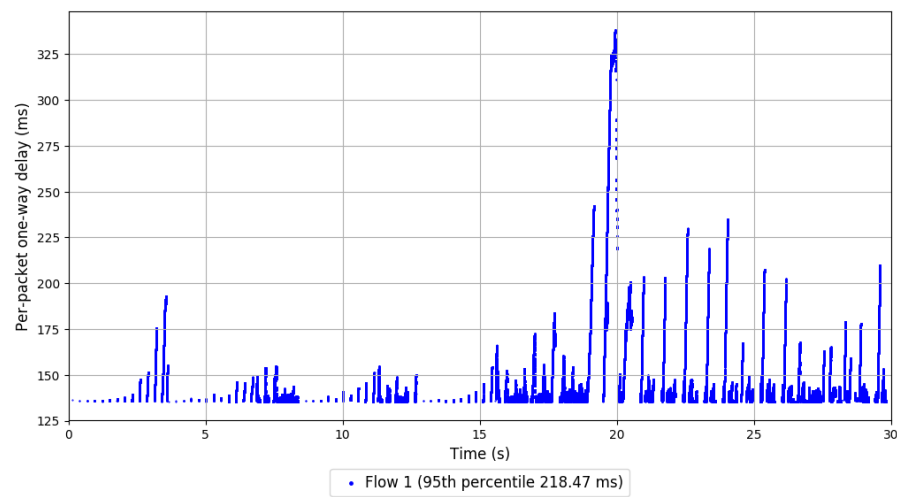
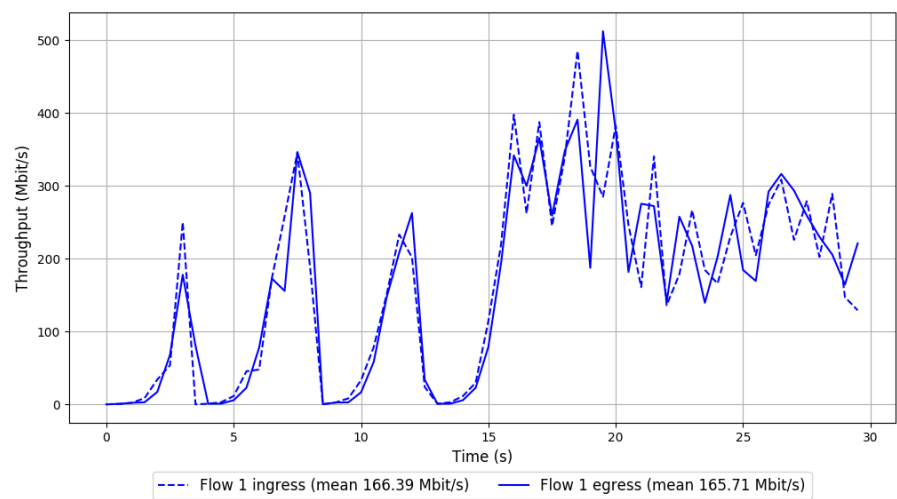
-- Flow 1:

Average throughput: 165.71 Mbit/s

95th percentile per-packet one-way delay: 218.466 ms

Loss rate: 0.42%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2017-12-05 19:26:22

End at: 2017-12-05 19:26:52

Below is generated by plot.py at 2017-12-05 21:01:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 157.07 Mbit/s

95th percentile per-packet one-way delay: 155.023 ms

Loss rate: 0.01%

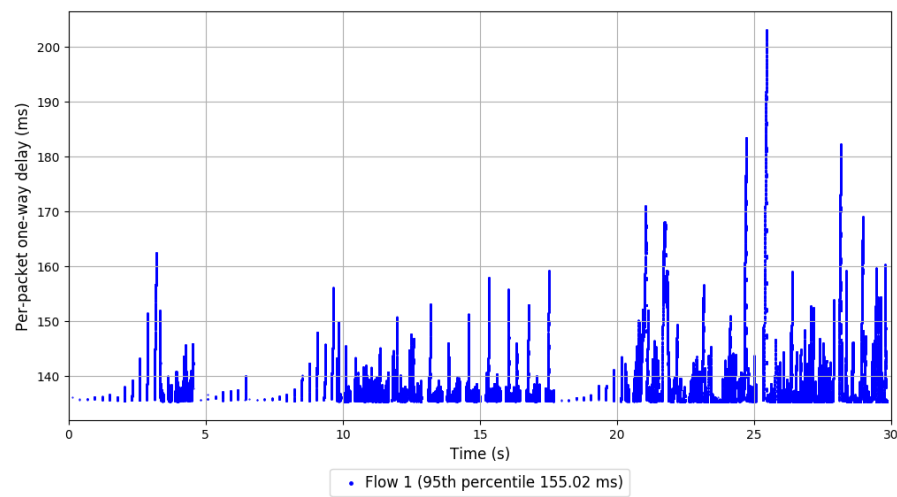
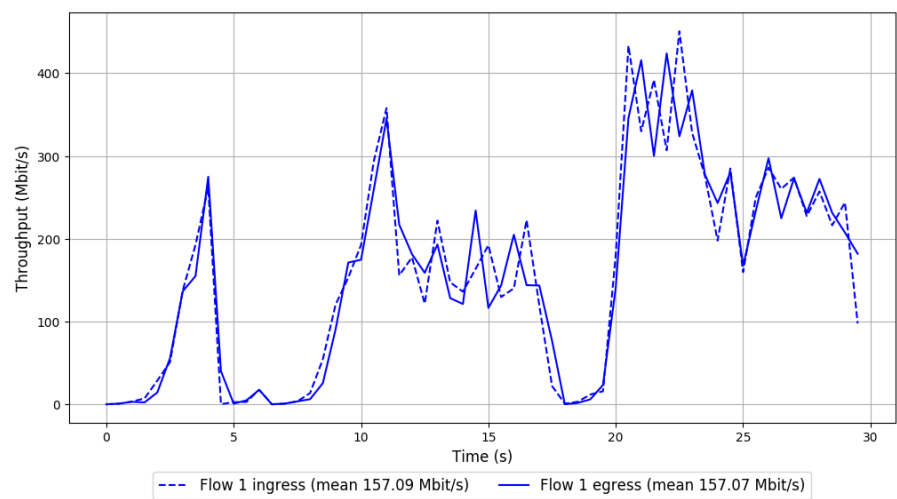
-- Flow 1:

Average throughput: 157.07 Mbit/s

95th percentile per-packet one-way delay: 155.023 ms

Loss rate: 0.01%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2017-12-05 19:37:28

End at: 2017-12-05 19:37:58

Below is generated by plot.py at 2017-12-05 21:01:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 116.04 Mbit/s

95th percentile per-packet one-way delay: 238.716 ms

Loss rate: 0.26%

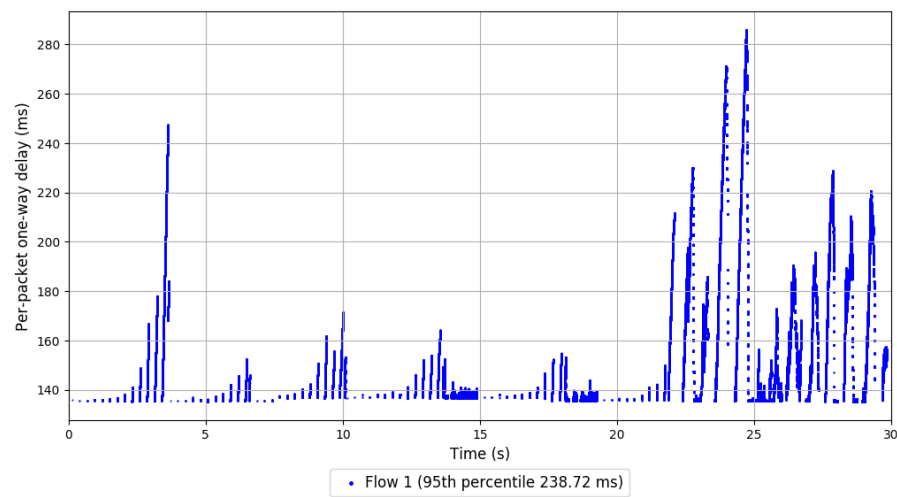
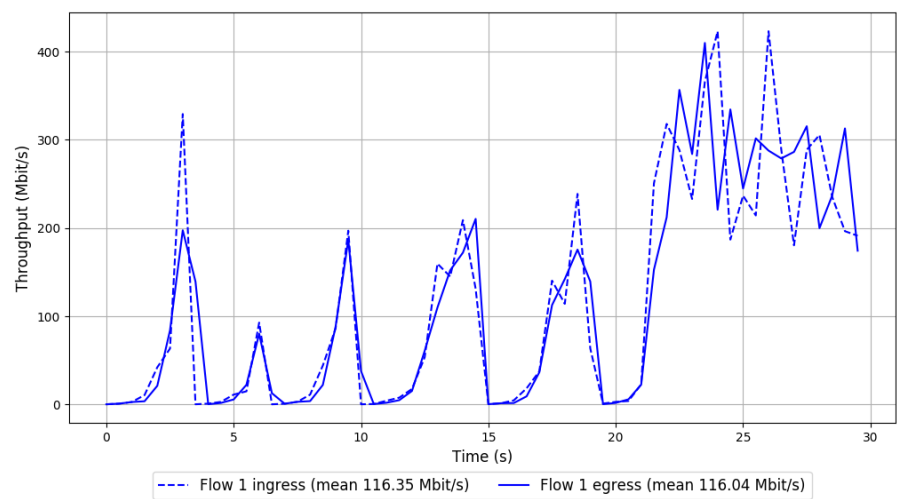
-- Flow 1:

Average throughput: 116.04 Mbit/s

95th percentile per-packet one-way delay: 238.716 ms

Loss rate: 0.26%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2017-12-05 19:49:00

End at: 2017-12-05 19:49:30

Below is generated by plot.py at 2017-12-05 21:03:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 223.26 Mbit/s

95th percentile per-packet one-way delay: 222.699 ms

Loss rate: 0.43%

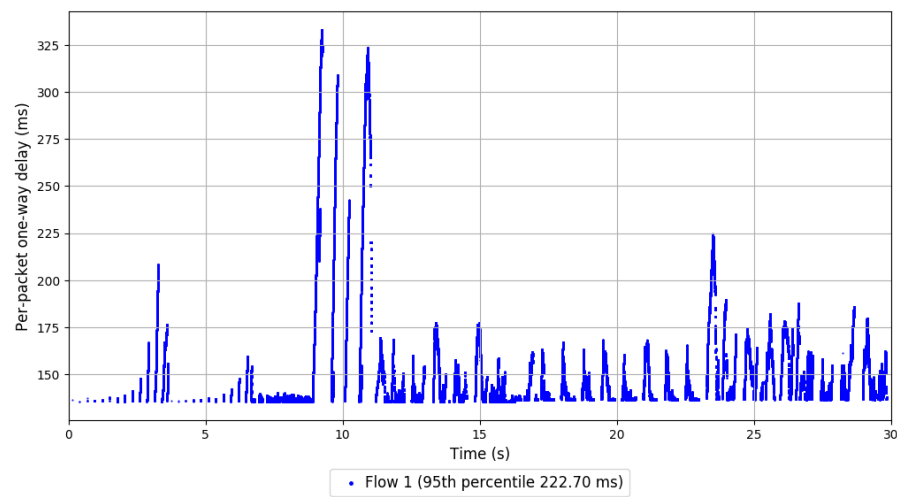
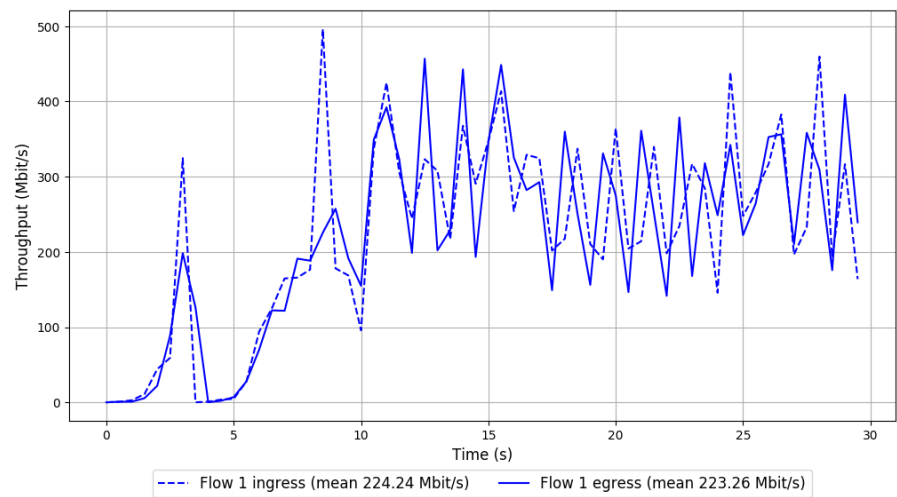
-- Flow 1:

Average throughput: 223.26 Mbit/s

95th percentile per-packet one-way delay: 222.699 ms

Loss rate: 0.43%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2017-12-05 20:00:43

End at: 2017-12-05 20:01:13

Below is generated by plot.py at 2017-12-05 21:03:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 240.69 Mbit/s

95th percentile per-packet one-way delay: 230.553 ms

Loss rate: 0.03%

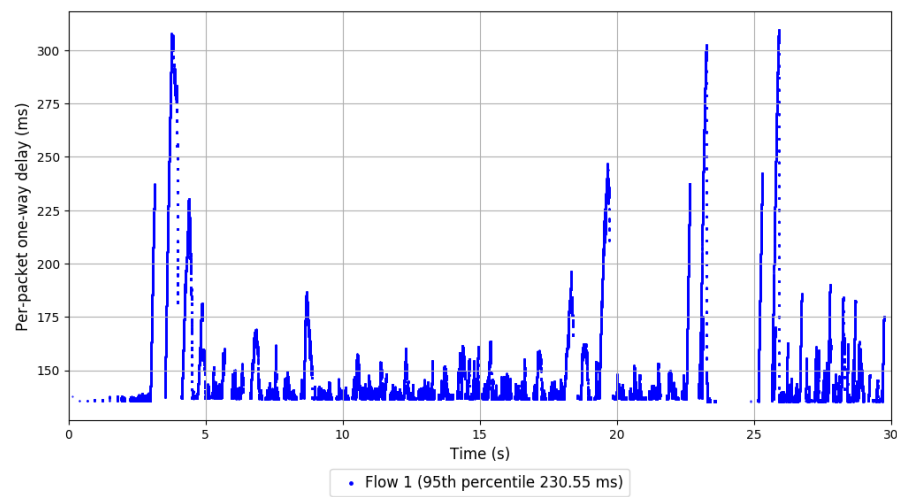
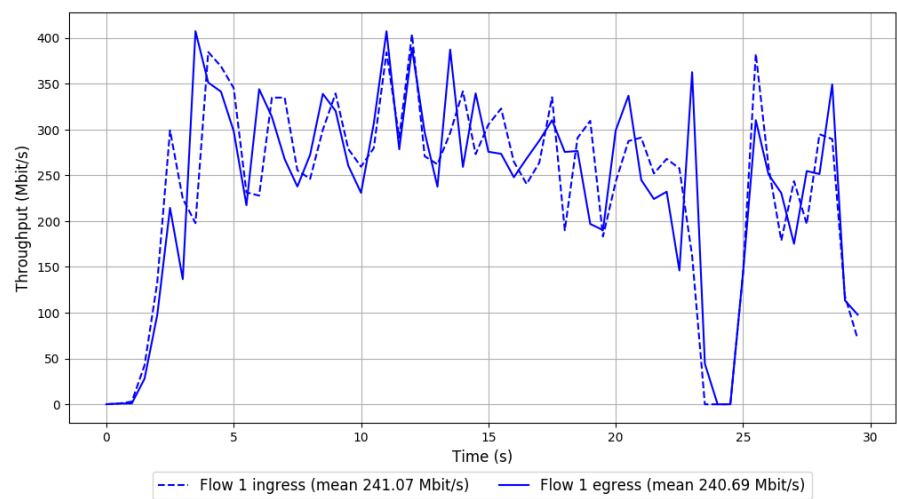
-- Flow 1:

Average throughput: 240.69 Mbit/s

95th percentile per-packet one-way delay: 230.553 ms

Loss rate: 0.03%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2017-12-05 18:14:43

End at: 2017-12-05 18:15:13

Run 1: Report of Copa — Data Link

Figure is missing

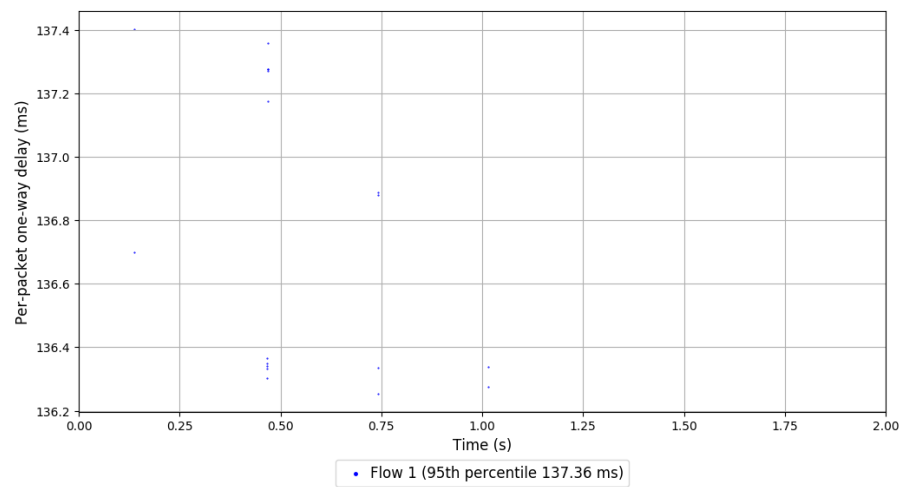
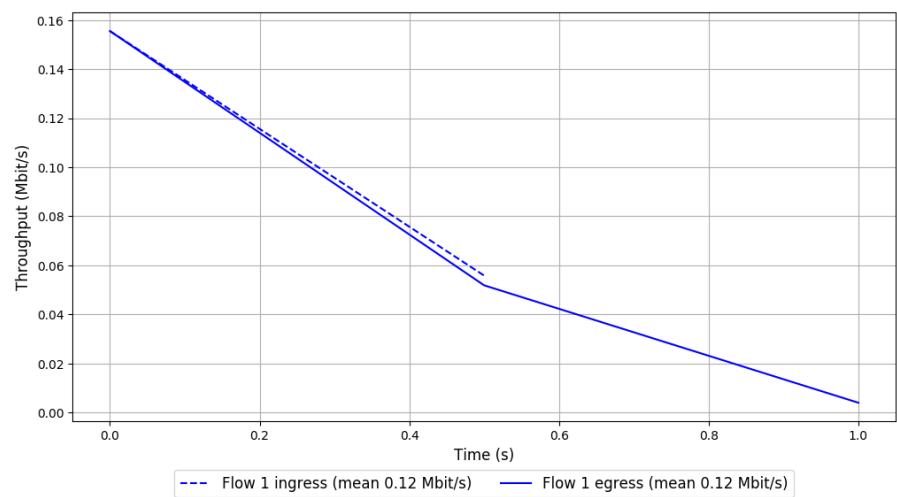
Figure is missing

Run 2: Statistics of Copa

Start at: 2017-12-05 18:25:38

End at: 2017-12-05 18:26:08

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2017-12-05 18:36:56

End at: 2017-12-05 18:37:26

Below is generated by plot.py at 2017-12-05 21:03:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.19 Mbit/s

95th percentile per-packet one-way delay: 136.333 ms

Loss rate: 0.00%

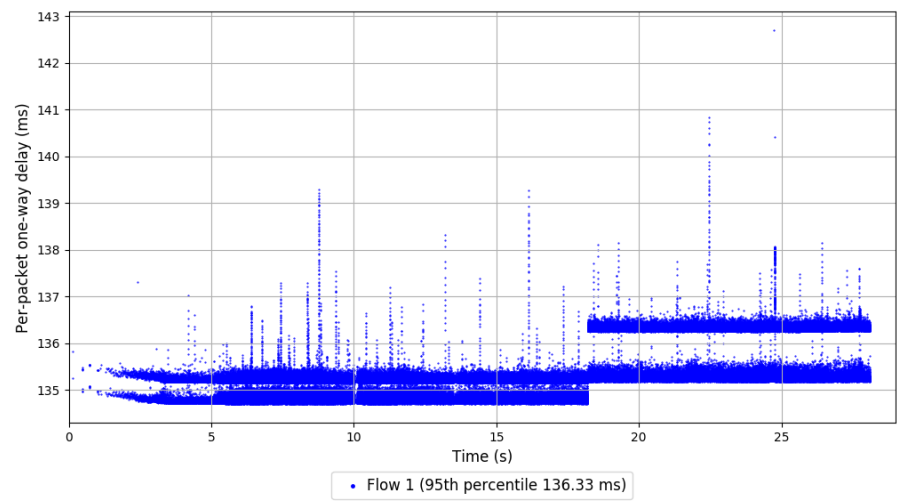
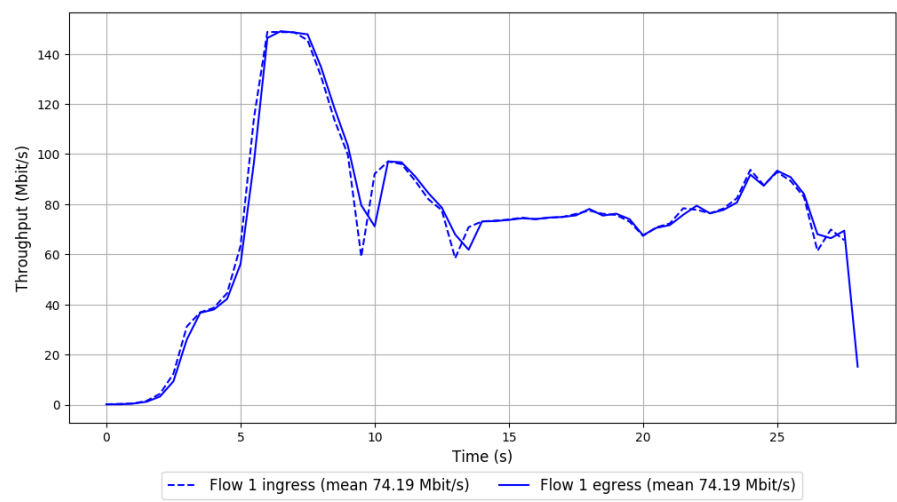
-- Flow 1:

Average throughput: 74.19 Mbit/s

95th percentile per-packet one-way delay: 136.333 ms

Loss rate: 0.00%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2017-12-05 18:48:08

End at: 2017-12-05 18:48:38

Below is generated by plot.py at 2017-12-05 21:03:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.27 Mbit/s

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

Loss rate: 0.00%

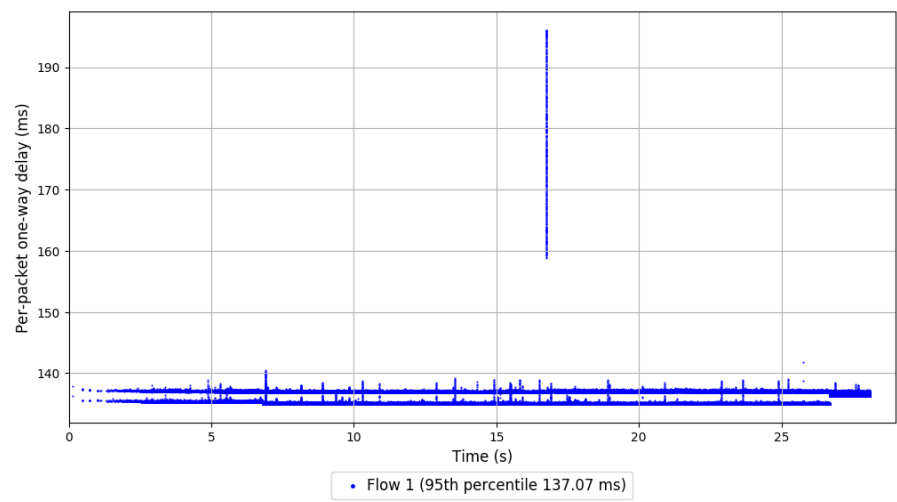
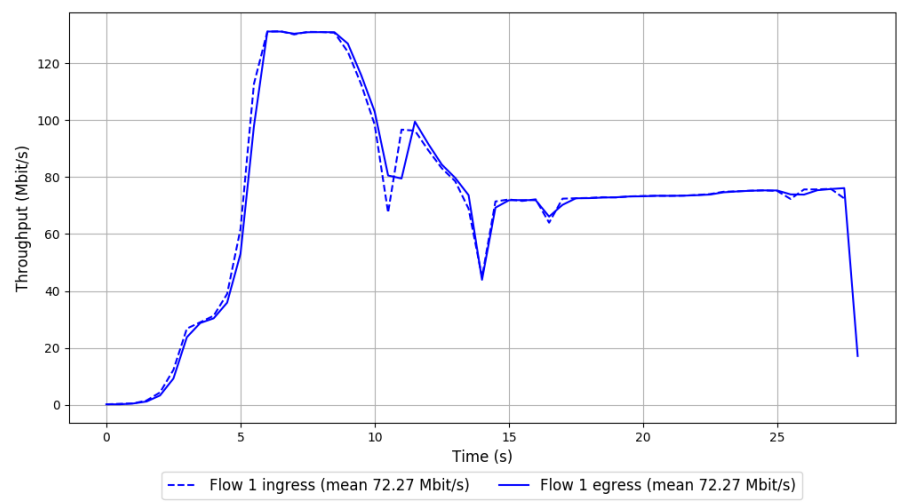
-- Flow 1:

Average throughput: 72.27 Mbit/s

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

Loss rate: 0.00%

Run 4: Report of Copa — Data Link

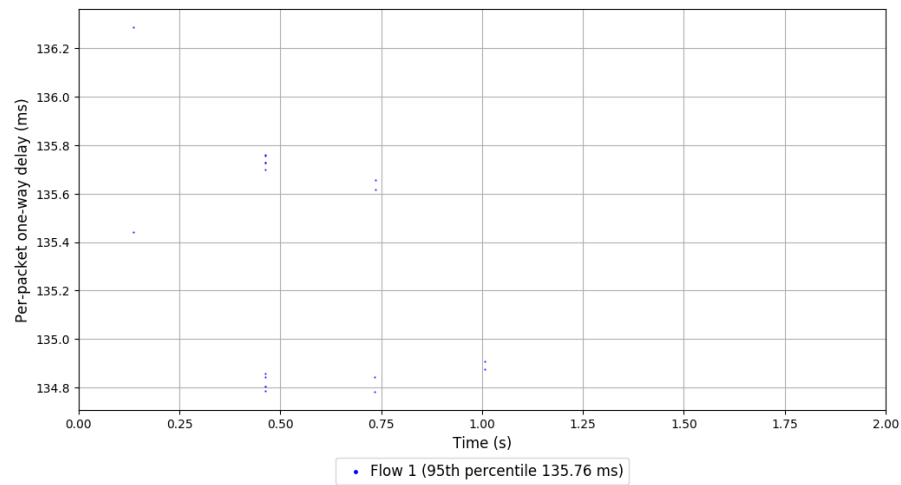
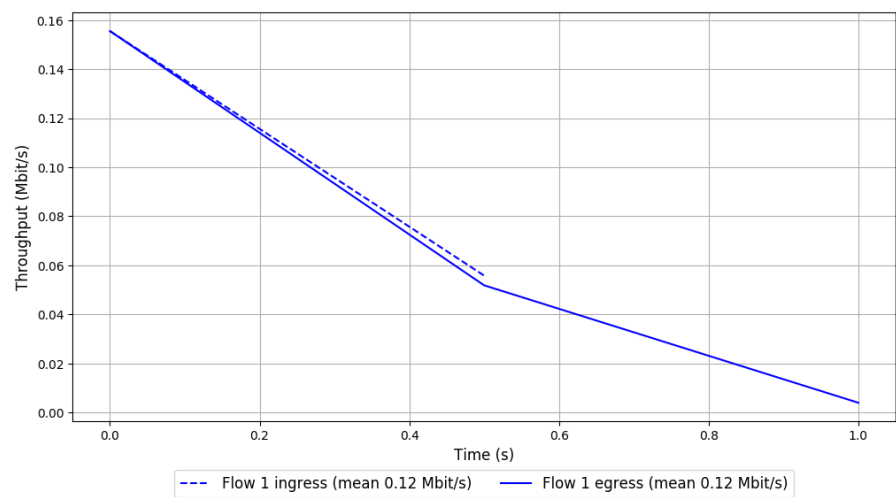


Run 5: Statistics of Copa

Start at: 2017-12-05 18:59:32

End at: 2017-12-05 19:00:02

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2017-12-05 19:10:38

End at: 2017-12-05 19:11:08

Below is generated by plot.py at 2017-12-05 21:03:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.02 Mbit/s

95th percentile per-packet one-way delay: 136.533 ms

Loss rate: 0.00%

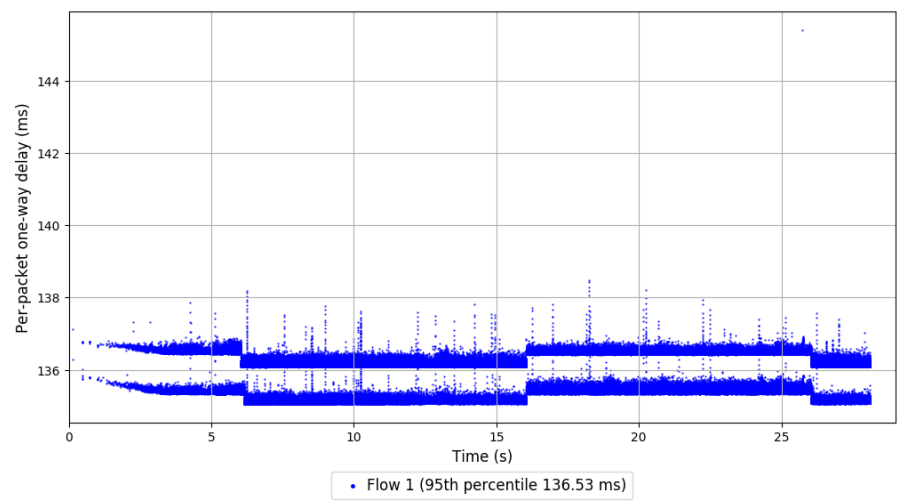
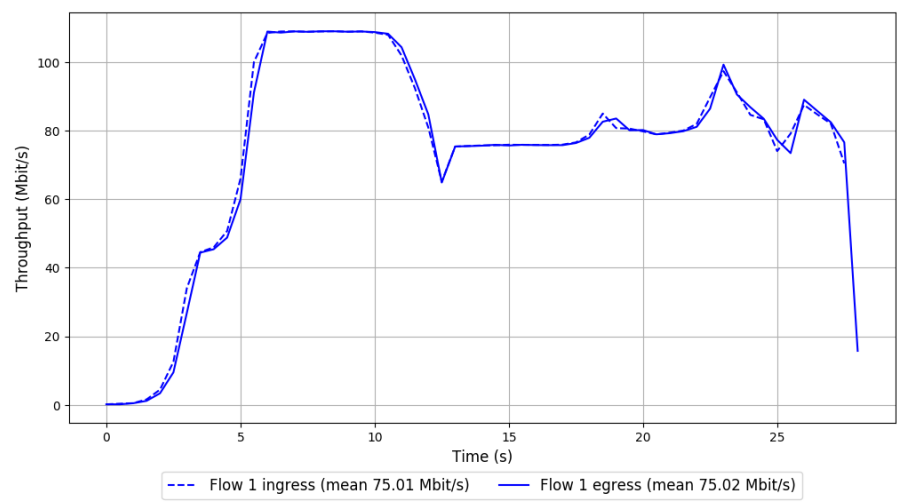
-- Flow 1:

Average throughput: 75.02 Mbit/s

95th percentile per-packet one-way delay: 136.533 ms

Loss rate: 0.00%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2017-12-05 19:21:53

End at: 2017-12-05 19:22:23

Below is generated by plot.py at 2017-12-05 21:03:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.81 Mbit/s

95th percentile per-packet one-way delay: 137.154 ms

Loss rate: 0.00%

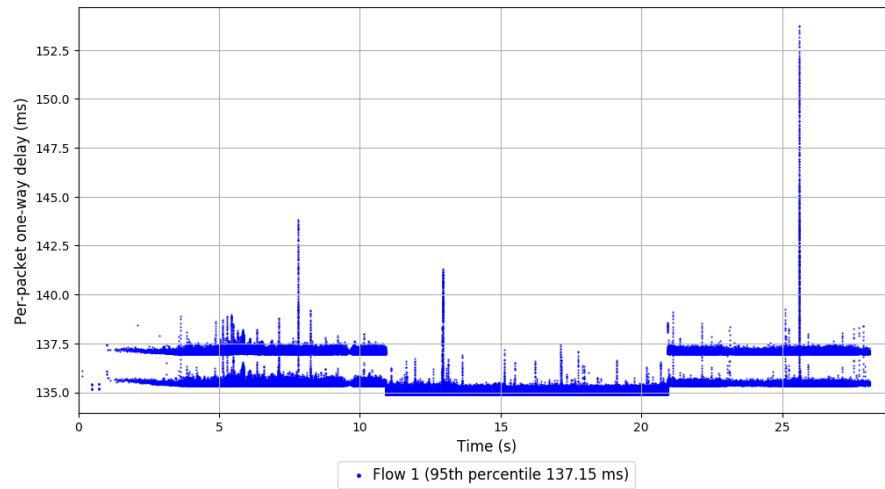
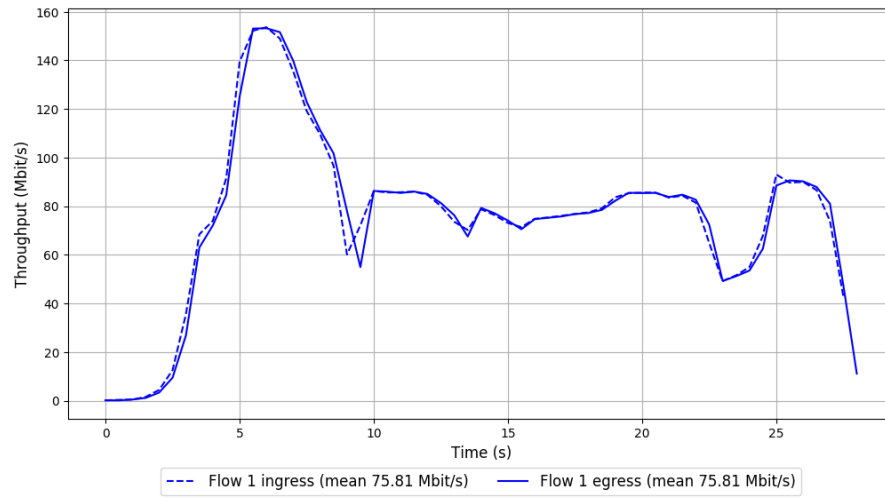
-- Flow 1:

Average throughput: 75.81 Mbit/s

95th percentile per-packet one-way delay: 137.154 ms

Loss rate: 0.00%

Run 7: Report of Copa — Data Link

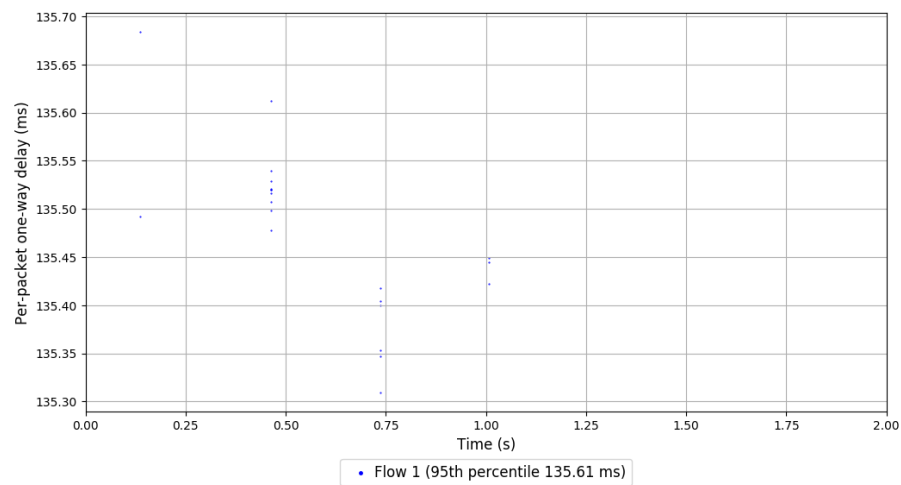
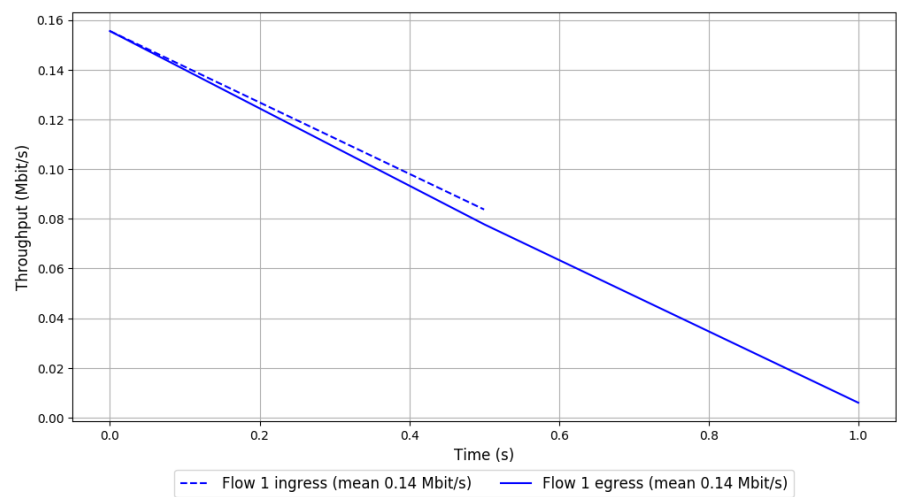


Run 8: Statistics of Copa

Start at: 2017-12-05 19:33:30

End at: 2017-12-05 19:34:00

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2017-12-05 19:44:33

End at: 2017-12-05 19:45:03

Below is generated by plot.py at 2017-12-05 21:03:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 66.99 Mbit/s

95th percentile per-packet one-way delay: 136.584 ms

Loss rate: 0.00%

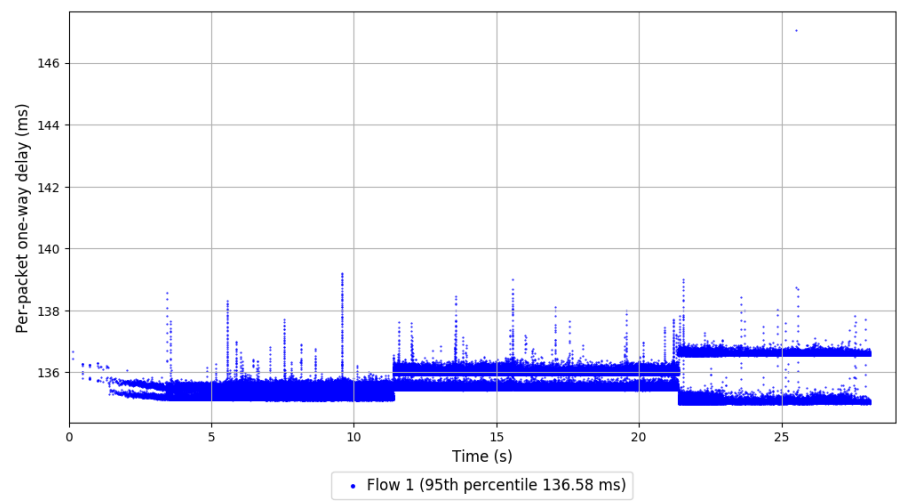
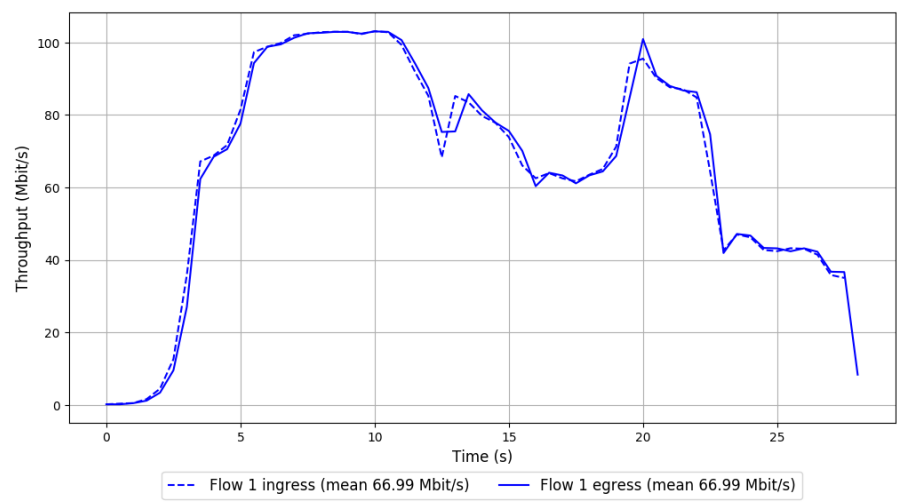
-- Flow 1:

Average throughput: 66.99 Mbit/s

95th percentile per-packet one-way delay: 136.584 ms

Loss rate: 0.00%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2017-12-05 19:56:14

End at: 2017-12-05 19:56:44

Below is generated by plot.py at 2017-12-05 21:03:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.10 Mbit/s

95th percentile per-packet one-way delay: 136.757 ms

Loss rate: 0.00%

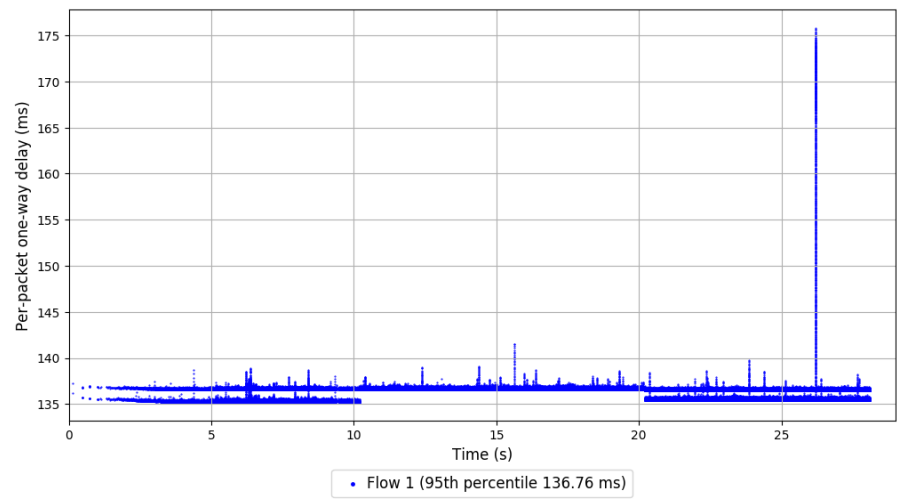
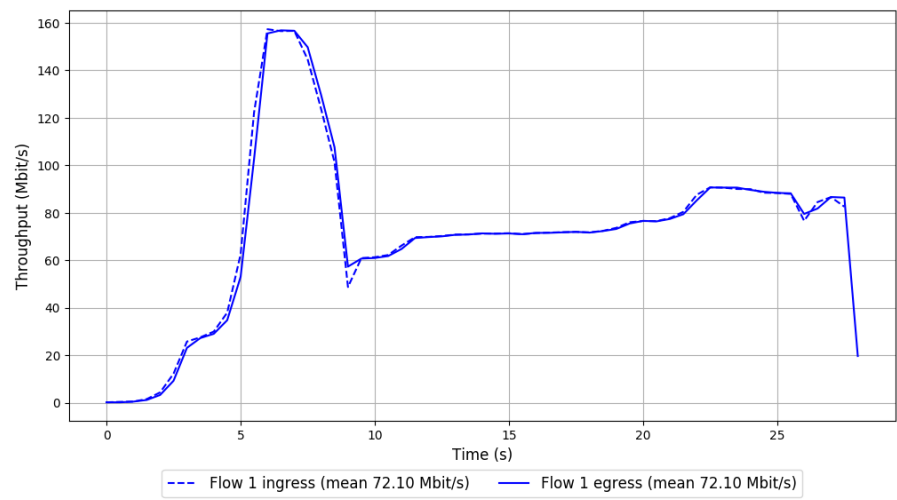
-- Flow 1:

Average throughput: 72.10 Mbit/s

95th percentile per-packet one-way delay: 136.757 ms

Loss rate: 0.00%

Run 10: Report of Copa — Data Link

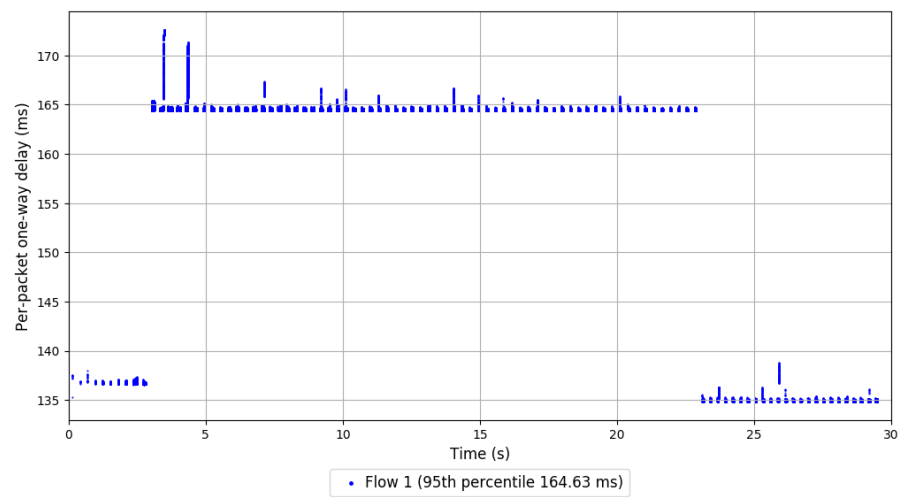
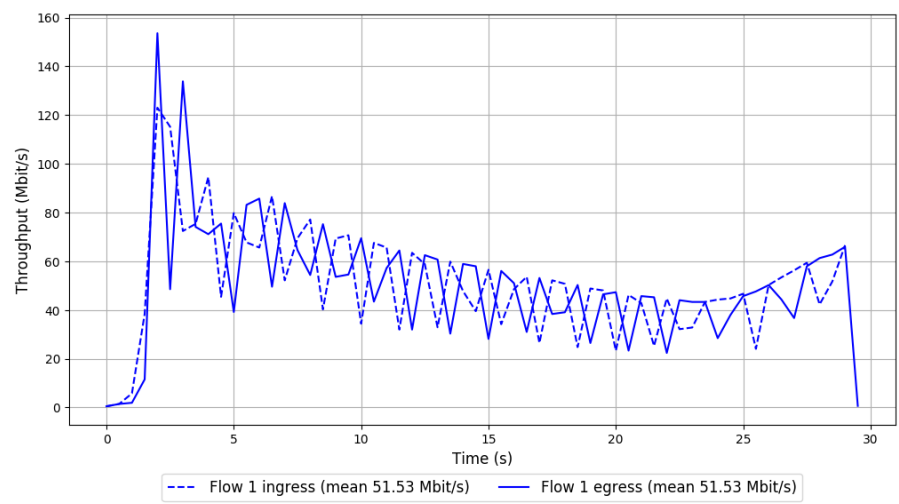


```
Run 1: Statistics of Indigo

Start at: 2017-12-05 18:20:23
End at: 2017-12-05 18:20:53

# Below is generated by plot.py at 2017-12-05 21:03:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 51.53 Mbit/s
95th percentile per-packet one-way delay: 164.630 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 51.53 Mbit/s
95th percentile per-packet one-way delay: 164.630 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2017-12-05 18:31:29

End at: 2017-12-05 18:31:59

Below is generated by plot.py at 2017-12-05 21:05:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 152.57 Mbit/s

95th percentile per-packet one-way delay: 136.844 ms

Loss rate: 0.00%

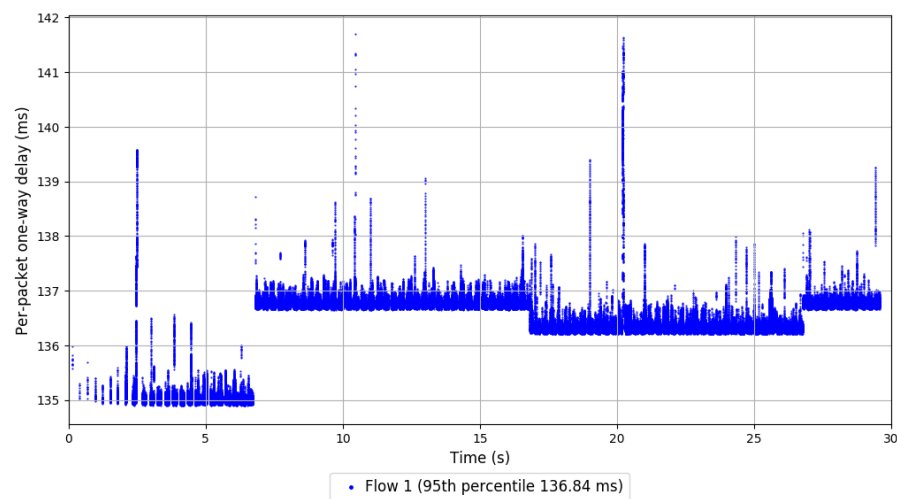
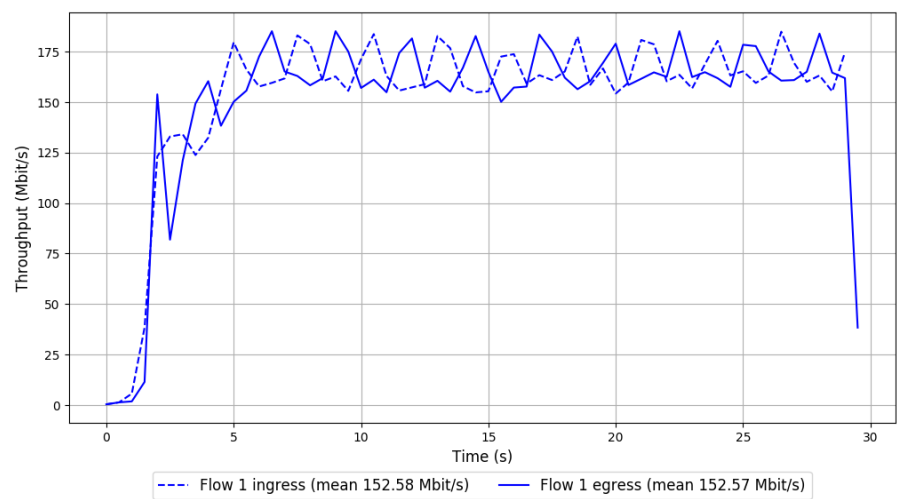
-- Flow 1:

Average throughput: 152.57 Mbit/s

95th percentile per-packet one-way delay: 136.844 ms

Loss rate: 0.00%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2017-12-05 18:42:42

End at: 2017-12-05 18:43:12

Below is generated by plot.py at 2017-12-05 21:05:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 153.59 Mbit/s

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

Loss rate: 0.00%

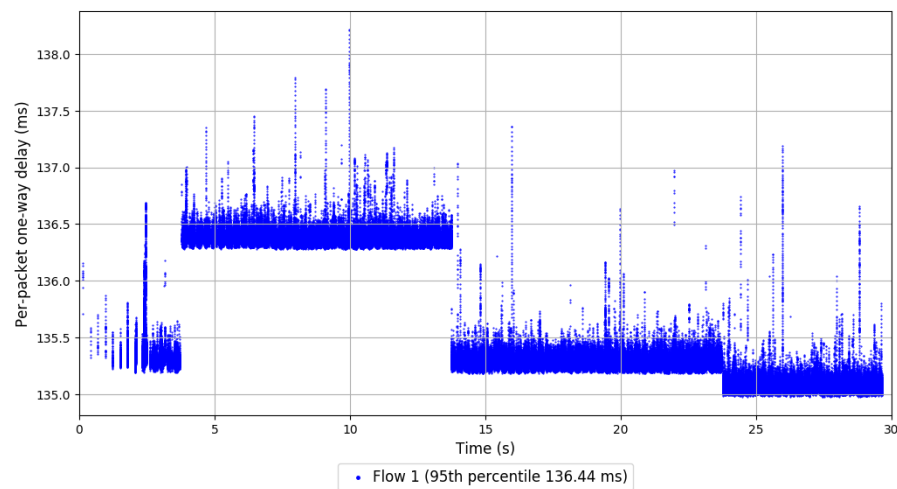
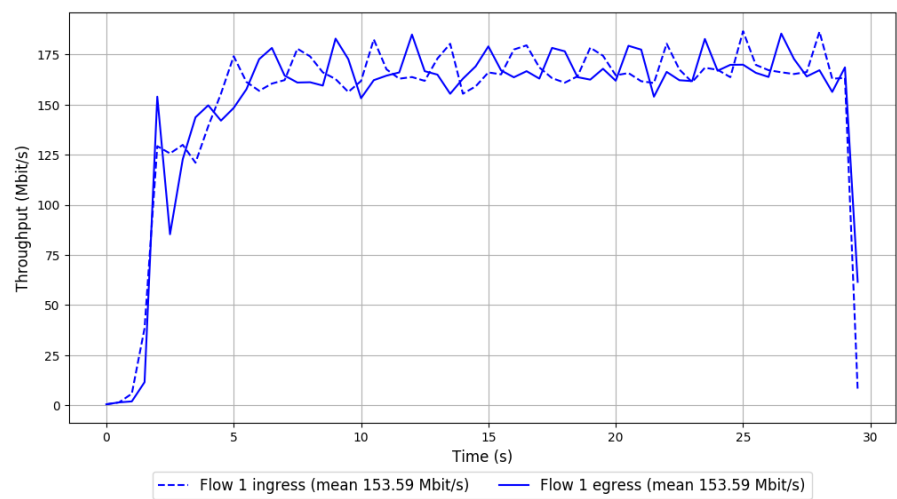
-- Flow 1:

Average throughput: 153.59 Mbit/s

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

Loss rate: 0.00%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2017-12-05 18:54:07

End at: 2017-12-05 18:54:37

Below is generated by plot.py at 2017-12-05 21:05:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 153.00 Mbit/s

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

Loss rate: 0.00%

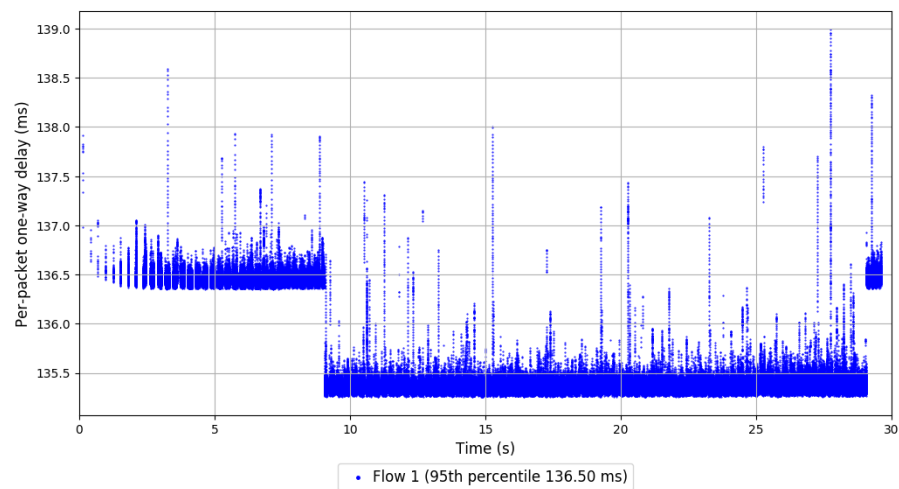
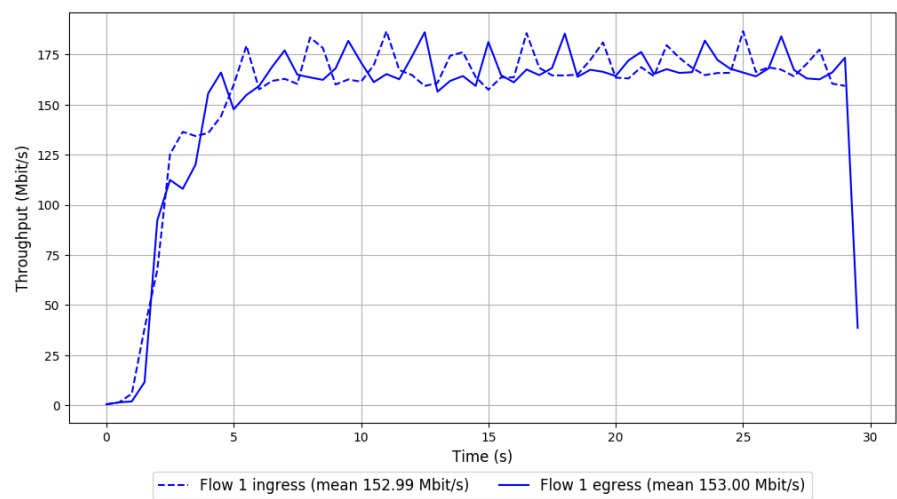
-- Flow 1:

Average throughput: 153.00 Mbit/s

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

Loss rate: 0.00%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2017-12-05 19:05:14

End at: 2017-12-05 19:05:44

Below is generated by plot.py at 2017-12-05 21:05:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 151.96 Mbit/s

95th percentile per-packet one-way delay: 136.598 ms

Loss rate: 0.01%

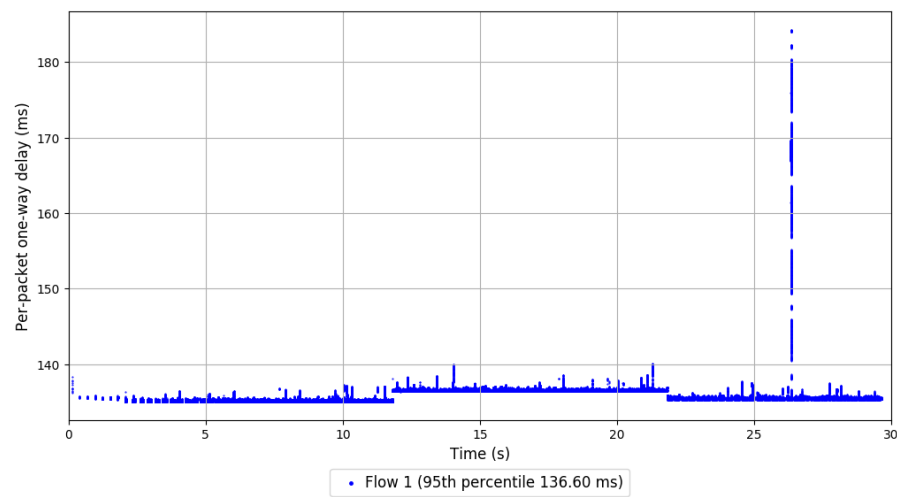
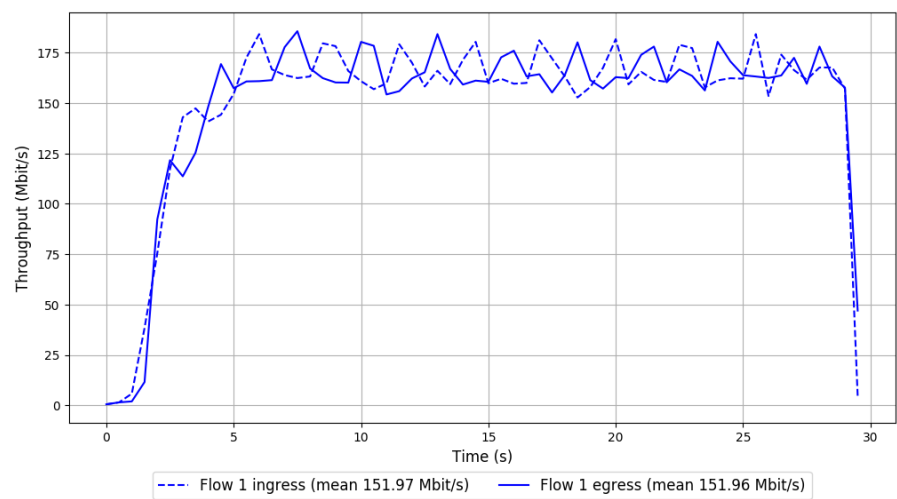
-- Flow 1:

Average throughput: 151.96 Mbit/s

95th percentile per-packet one-way delay: 136.598 ms

Loss rate: 0.01%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2017-12-05 19:16:28

End at: 2017-12-05 19:16:58

Below is generated by plot.py at 2017-12-05 21:05:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 151.60 Mbit/s

95th percentile per-packet one-way delay: 136.594 ms

Loss rate: 0.00%

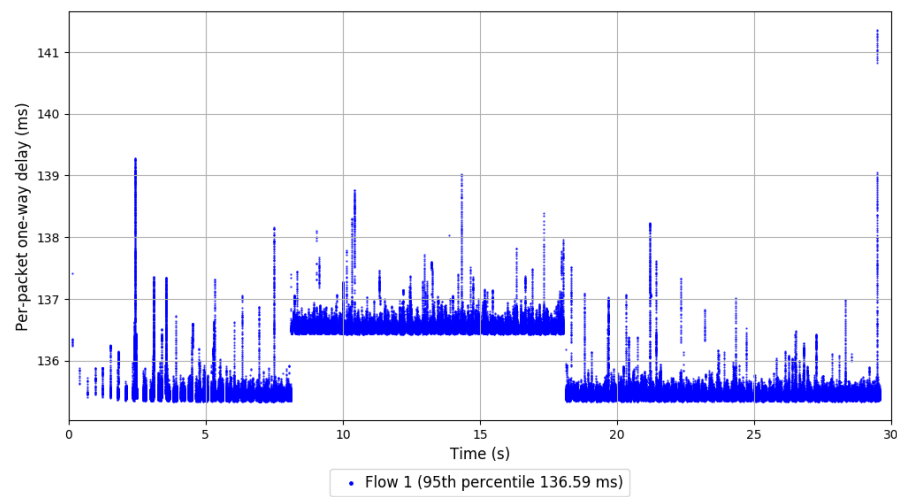
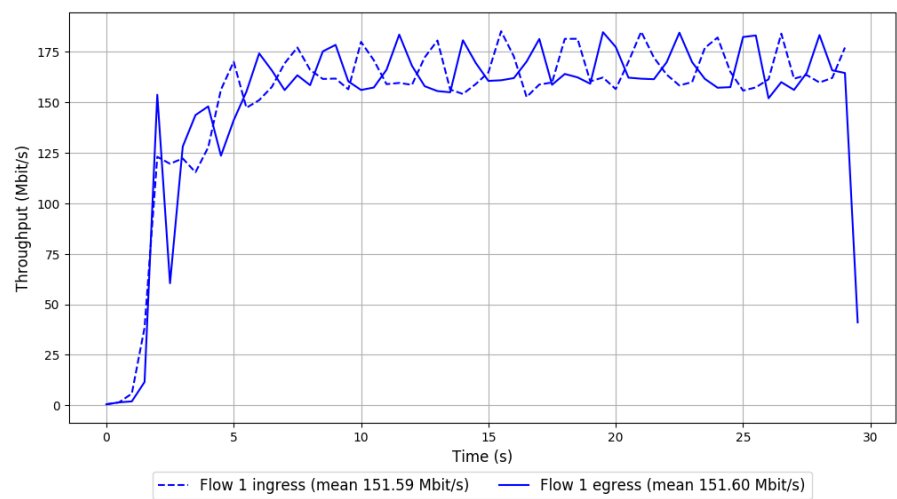
-- Flow 1:

Average throughput: 151.60 Mbit/s

95th percentile per-packet one-way delay: 136.594 ms

Loss rate: 0.00%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2017-12-05 19:28:05

End at: 2017-12-05 19:28:35

Below is generated by plot.py at 2017-12-05 21:06:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 155.31 Mbit/s

95th percentile per-packet one-way delay: 135.559 ms

Loss rate: 0.00%

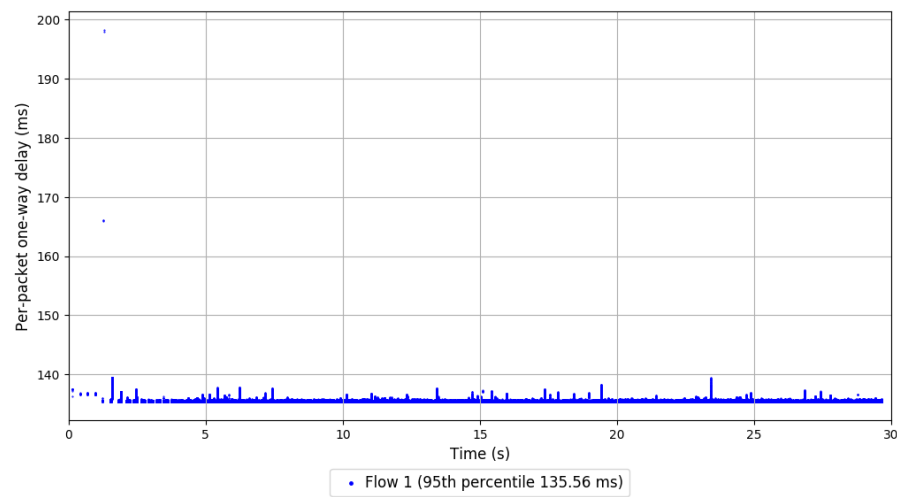
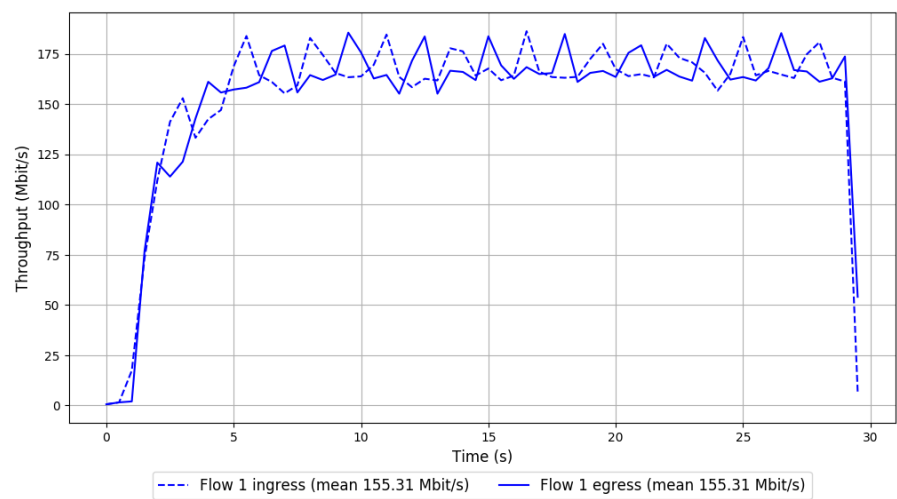
-- Flow 1:

Average throughput: 155.31 Mbit/s

95th percentile per-packet one-way delay: 135.559 ms

Loss rate: 0.00%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2017-12-05 19:39:07

End at: 2017-12-05 19:39:37

Below is generated by plot.py at 2017-12-05 21:06:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 154.08 Mbit/s

95th percentile per-packet one-way delay: 136.645 ms

Loss rate: 0.00%

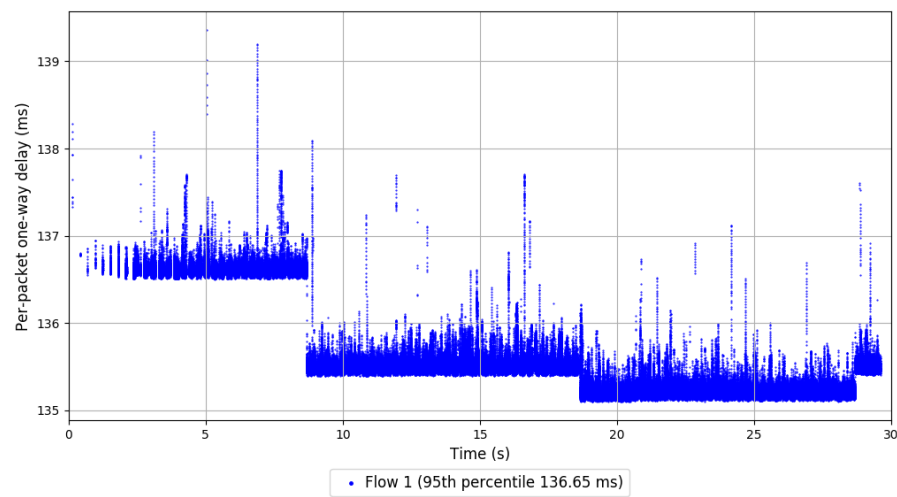
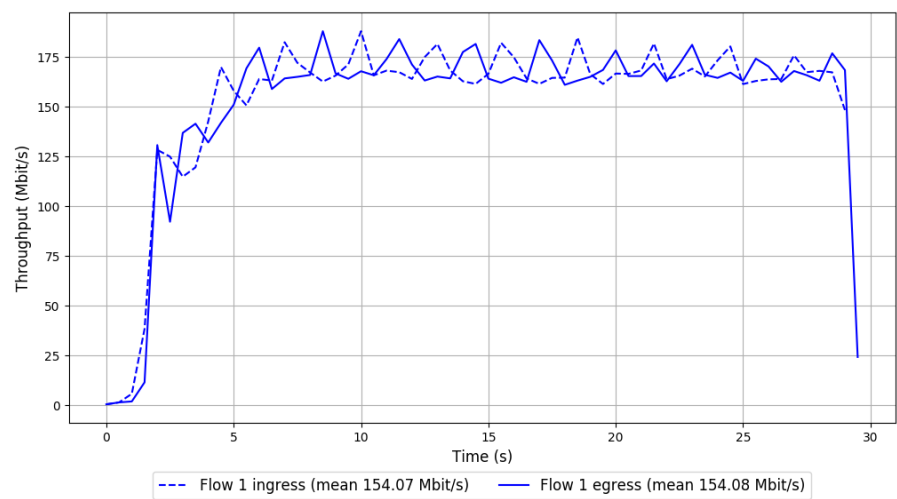
-- Flow 1:

Average throughput: 154.08 Mbit/s

95th percentile per-packet one-way delay: 136.645 ms

Loss rate: 0.00%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2017-12-05 19:50:46

End at: 2017-12-05 19:51:17

Below is generated by plot.py at 2017-12-05 21:06:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 153.57 Mbit/s

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

Loss rate: 0.00%

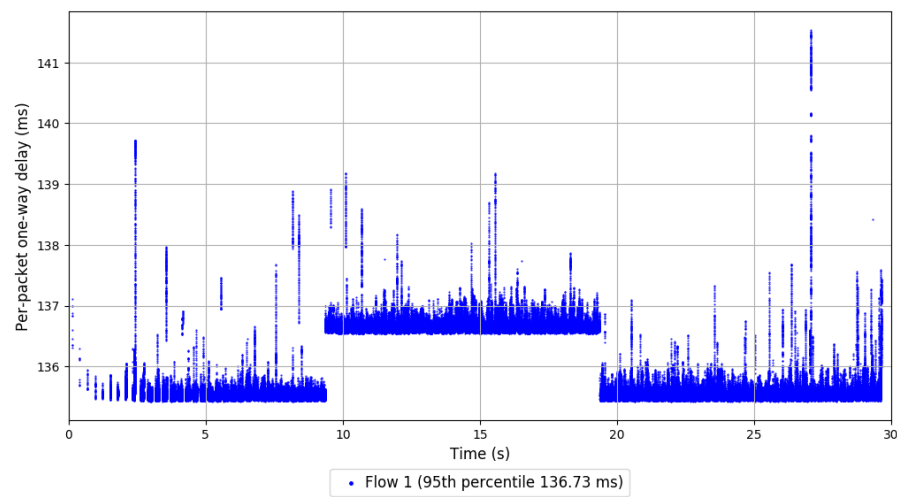
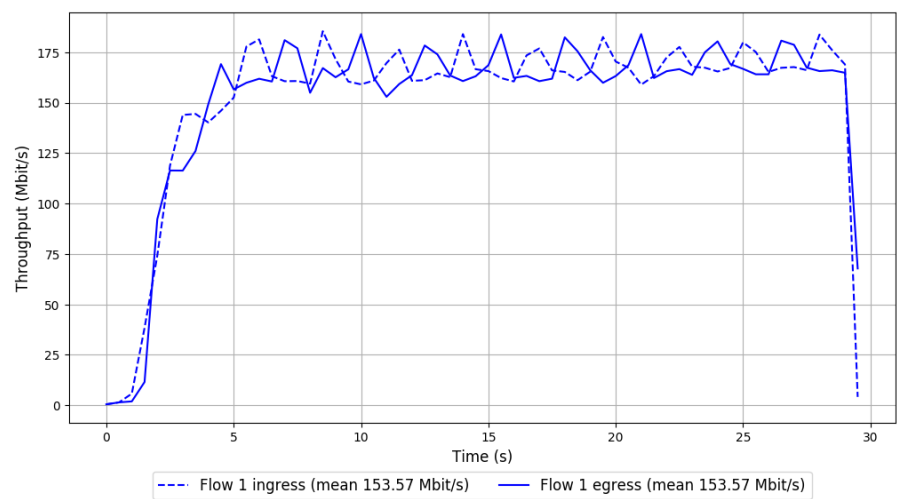
-- Flow 1:

Average throughput: 153.57 Mbit/s

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

Loss rate: 0.00%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2017-12-05 20:02:31

End at: 2017-12-05 20:03:01

Below is generated by plot.py at 2017-12-05 21:08:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 151.92 Mbit/s

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

Loss rate: 0.00%

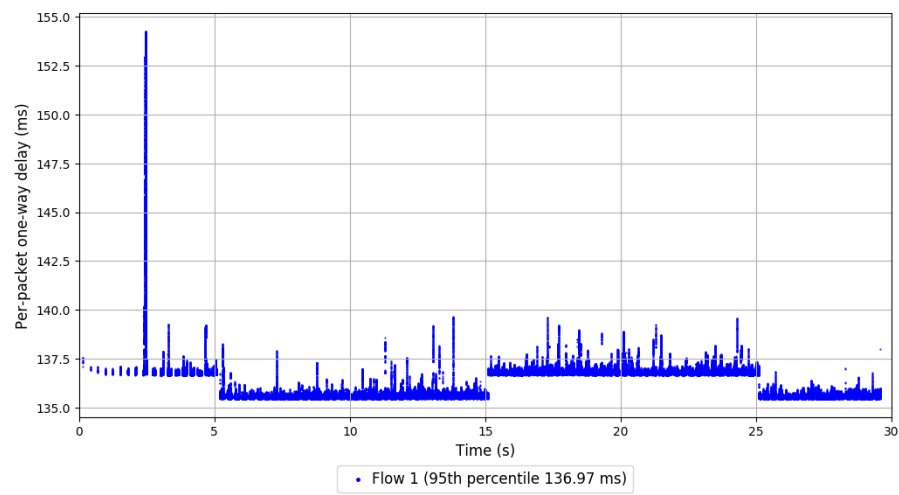
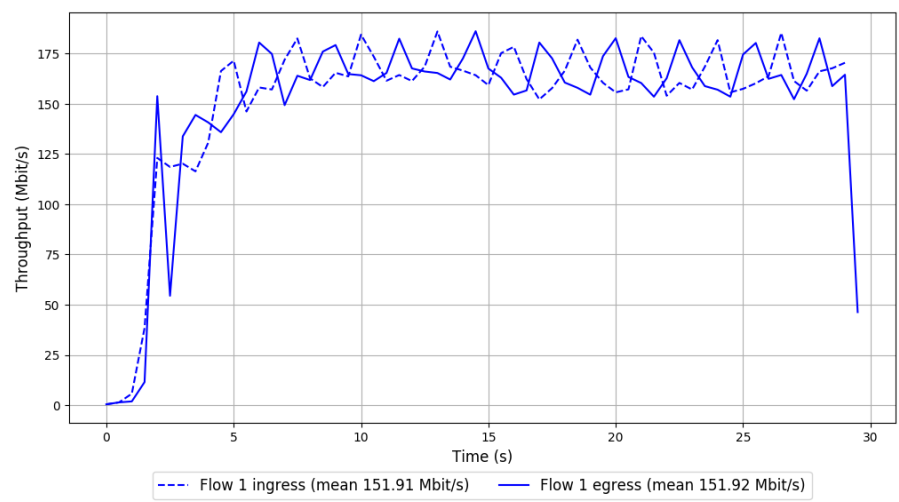
-- Flow 1:

Average throughput: 151.92 Mbit/s

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

Loss rate: 0.00%

Run 10: Report of Indigo — Data Link

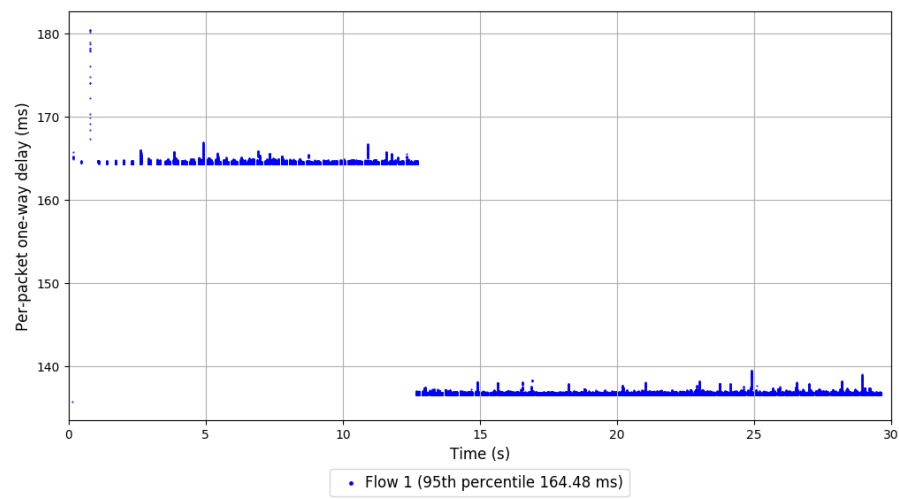
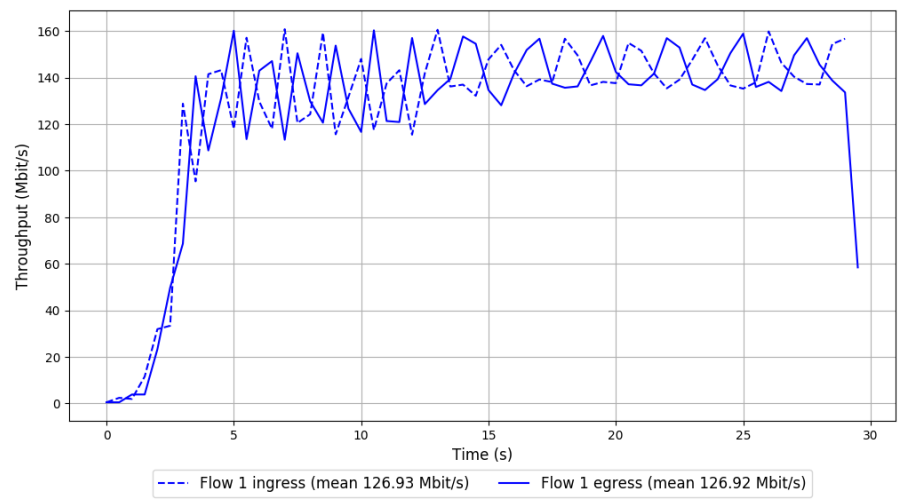


```
Run 1: Statistics of Indigo-calib

Start at: 2017-12-05 18:13:03
End at: 2017-12-05 18:13:33

# Below is generated by plot.py at 2017-12-05 21:08:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 126.92 Mbit/s
95th percentile per-packet one-way delay: 164.484 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 126.92 Mbit/s
95th percentile per-packet one-way delay: 164.484 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo-calib — Data Link

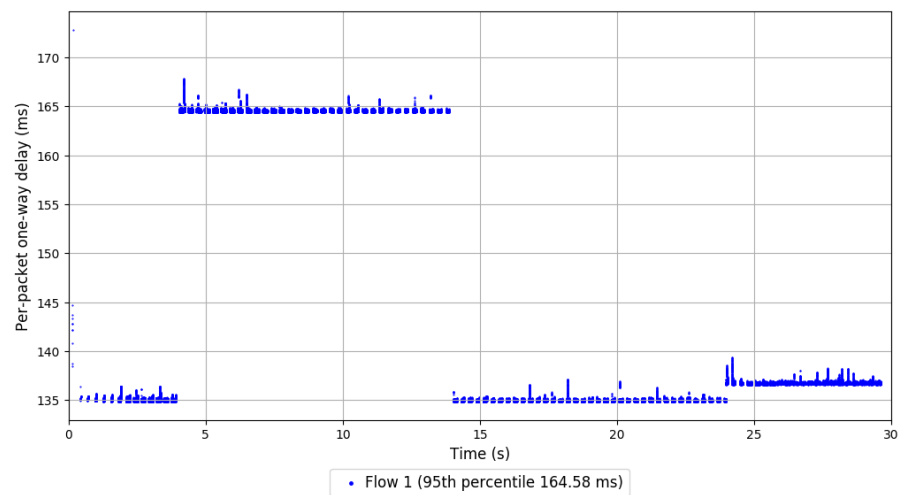
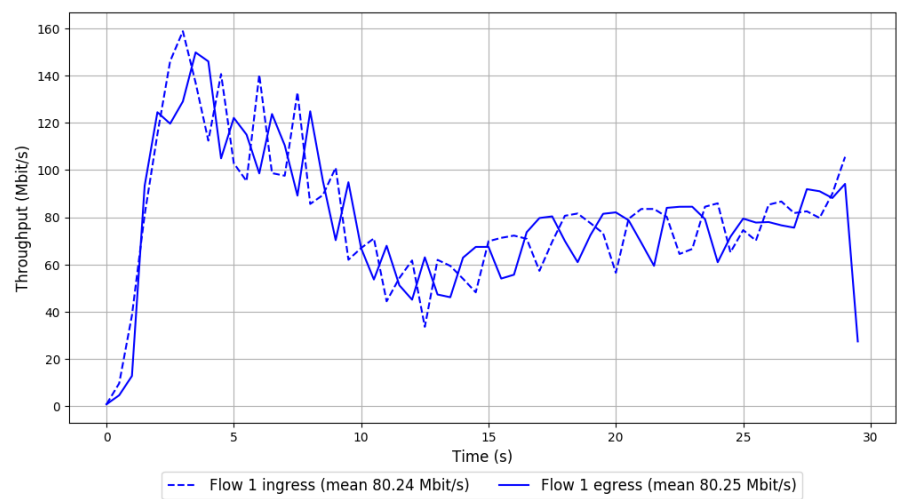


```
Run 2: Statistics of Indigo-calib

Start at: 2017-12-05 18:24:02
End at: 2017-12-05 18:24:32

# Below is generated by plot.py at 2017-12-05 21:08:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 80.25 Mbit/s
95th percentile per-packet one-way delay: 164.581 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 80.25 Mbit/s
95th percentile per-packet one-way delay: 164.581 ms
Loss rate: 0.01%
```

Run 2: Report of Indigo-calib — Data Link



Run 3: Statistics of Indigo-calib

Start at: 2017-12-05 18:35:16

End at: 2017-12-05 18:35:46

Below is generated by plot.py at 2017-12-05 21:08:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 131.22 Mbit/s

95th percentile per-packet one-way delay: 136.427 ms

Loss rate: 0.30%

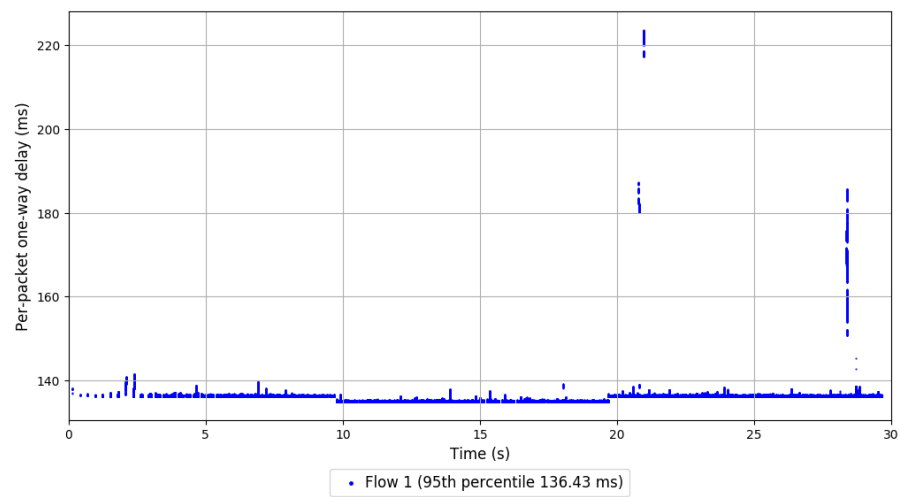
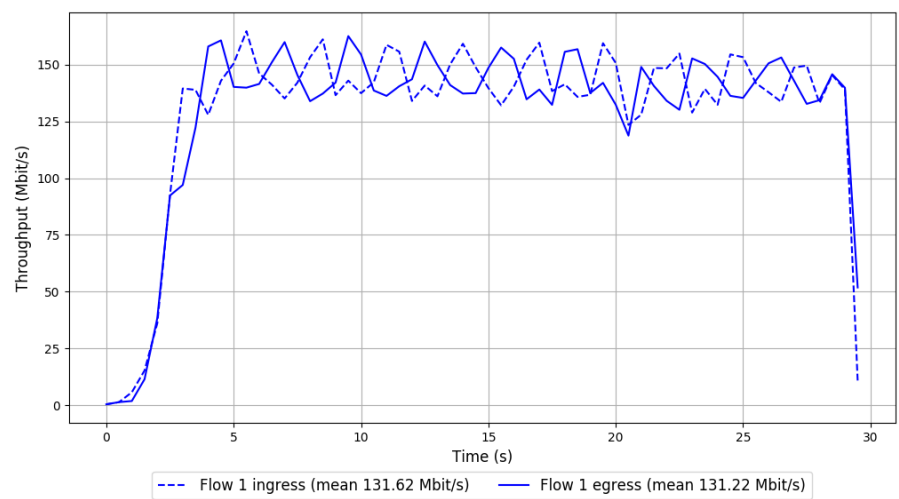
-- Flow 1:

Average throughput: 131.22 Mbit/s

95th percentile per-packet one-way delay: 136.427 ms

Loss rate: 0.30%

Run 3: Report of Indigo-calib — Data Link



Run 4: Statistics of Indigo-calib

Start at: 2017-12-05 18:46:29

End at: 2017-12-05 18:46:59

Below is generated by plot.py at 2017-12-05 21:08:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 130.75 Mbit/s

95th percentile per-packet one-way delay: 136.541 ms

Loss rate: 0.00%

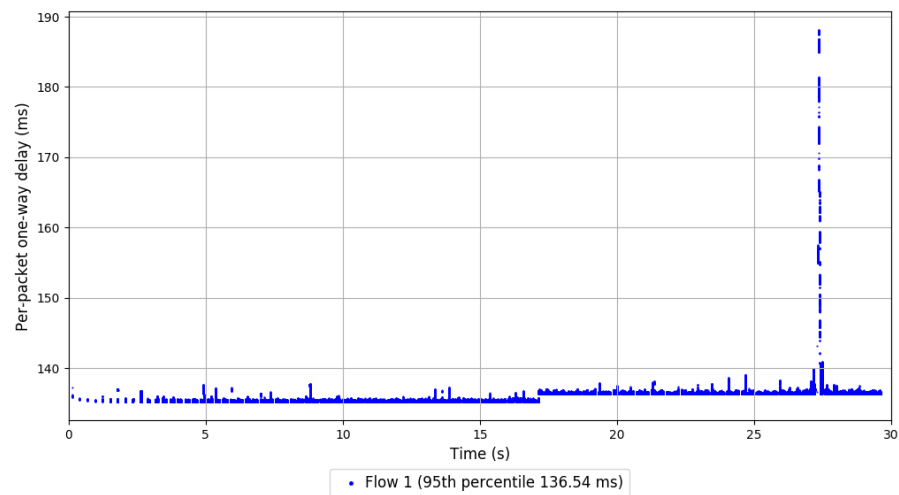
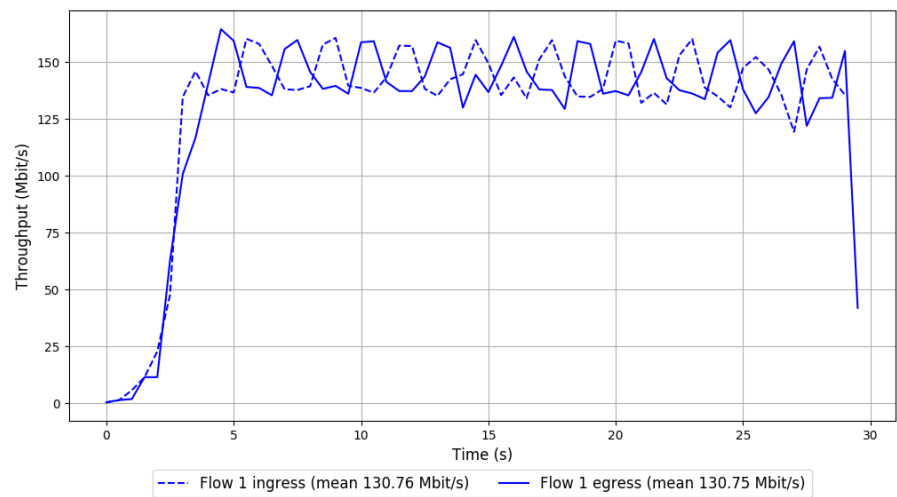
-- Flow 1:

Average throughput: 130.75 Mbit/s

95th percentile per-packet one-way delay: 136.541 ms

Loss rate: 0.00%

Run 4: Report of Indigo-calib — Data Link



Run 5: Statistics of Indigo-calib

Start at: 2017-12-05 18:57:52

End at: 2017-12-05 18:58:22

Below is generated by plot.py at 2017-12-05 21:08:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 130.19 Mbit/s

95th percentile per-packet one-way delay: 136.639 ms

Loss rate: 0.00%

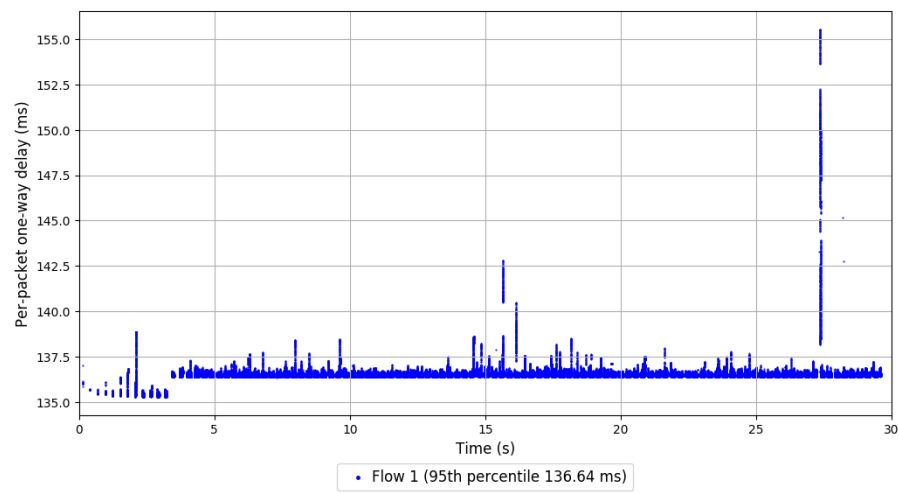
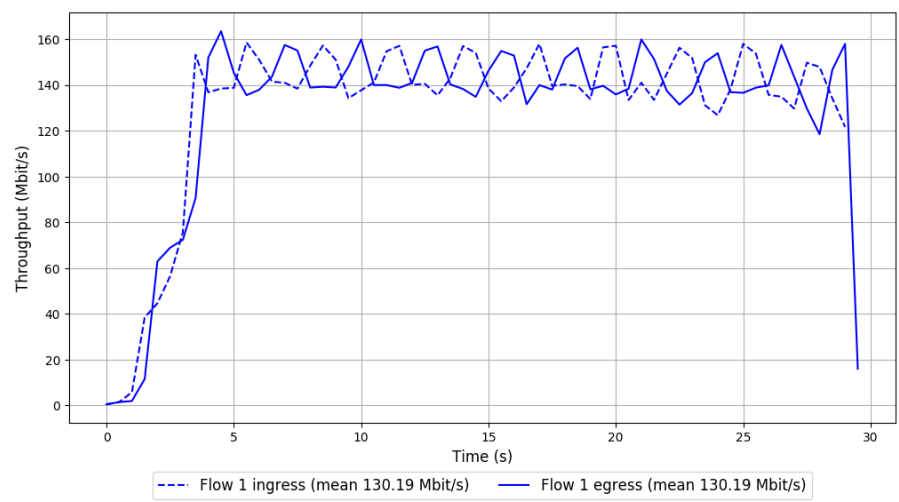
-- Flow 1:

Average throughput: 130.19 Mbit/s

95th percentile per-packet one-way delay: 136.639 ms

Loss rate: 0.00%

Run 5: Report of Indigo-calib — Data Link



Run 6: Statistics of Indigo-calib

Start at: 2017-12-05 19:08:59

End at: 2017-12-05 19:09:29

Below is generated by plot.py at 2017-12-05 21:08:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 131.91 Mbit/s

95th percentile per-packet one-way delay: 136.579 ms

Loss rate: 0.20%

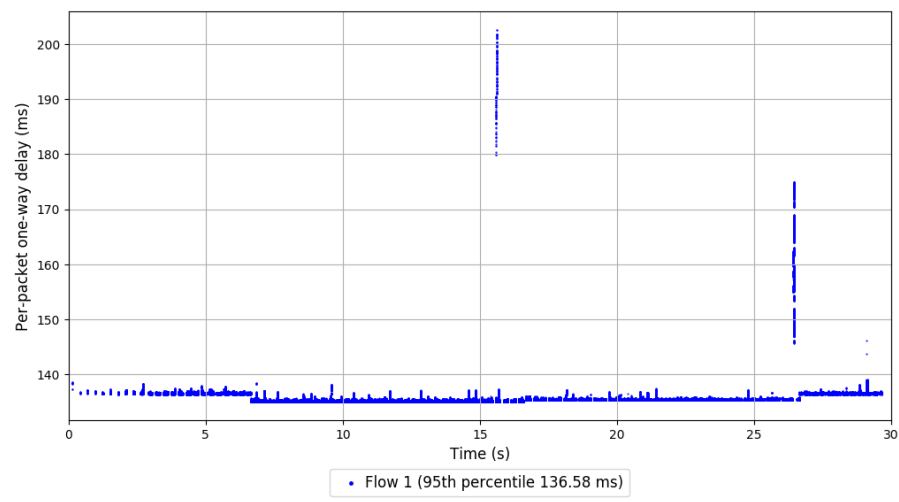
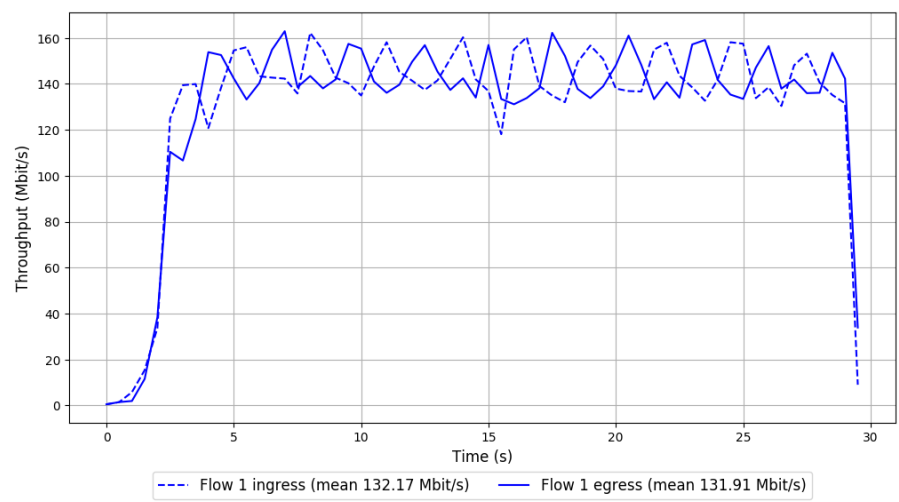
-- Flow 1:

Average throughput: 131.91 Mbit/s

95th percentile per-packet one-way delay: 136.579 ms

Loss rate: 0.20%

Run 6: Report of Indigo-calib — Data Link



Run 7: Statistics of Indigo-calib

Start at: 2017-12-05 19:20:14

End at: 2017-12-05 19:20:44

Below is generated by plot.py at 2017-12-05 21:08:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 132.51 Mbit/s

95th percentile per-packet one-way delay: 135.640 ms

Loss rate: 0.01%

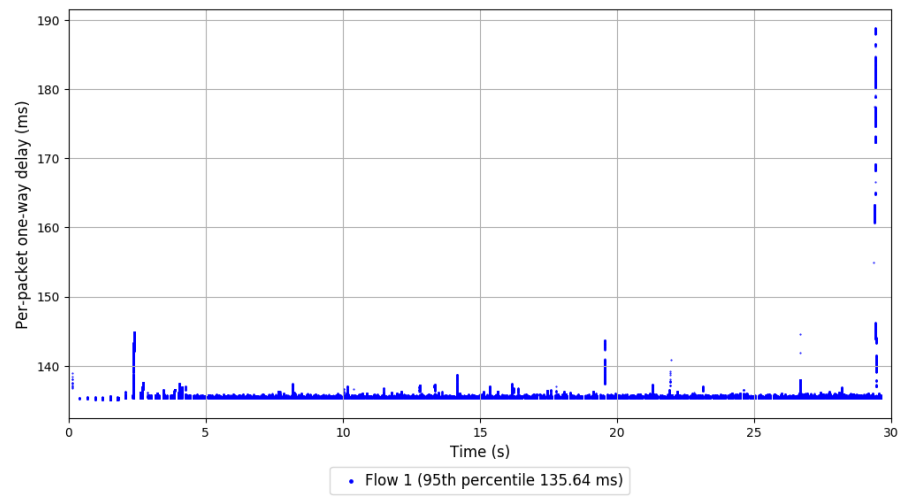
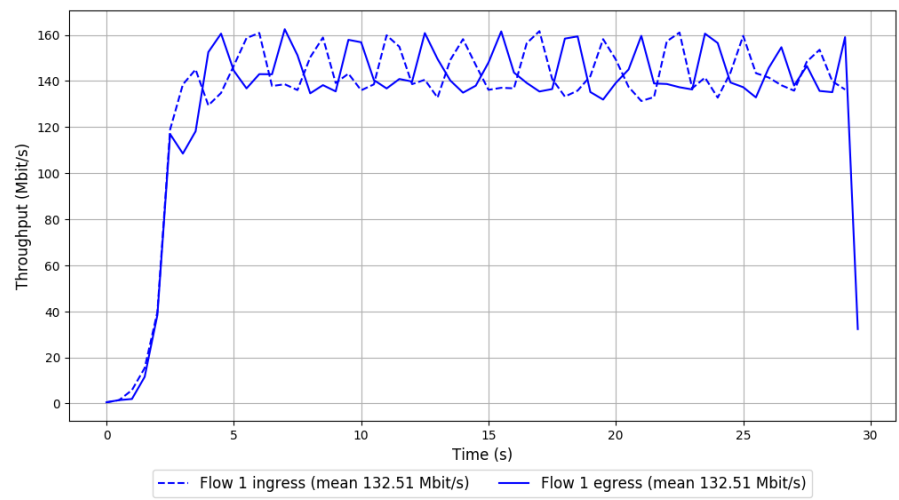
-- Flow 1:

Average throughput: 132.51 Mbit/s

95th percentile per-packet one-way delay: 135.640 ms

Loss rate: 0.01%

Run 7: Report of Indigo-calib — Data Link



Run 8: Statistics of Indigo-calib

Start at: 2017-12-05 19:31:50

End at: 2017-12-05 19:32:20

Below is generated by plot.py at 2017-12-05 21:08:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 130.79 Mbit/s

95th percentile per-packet one-way delay: 136.598 ms

Loss rate: 0.00%

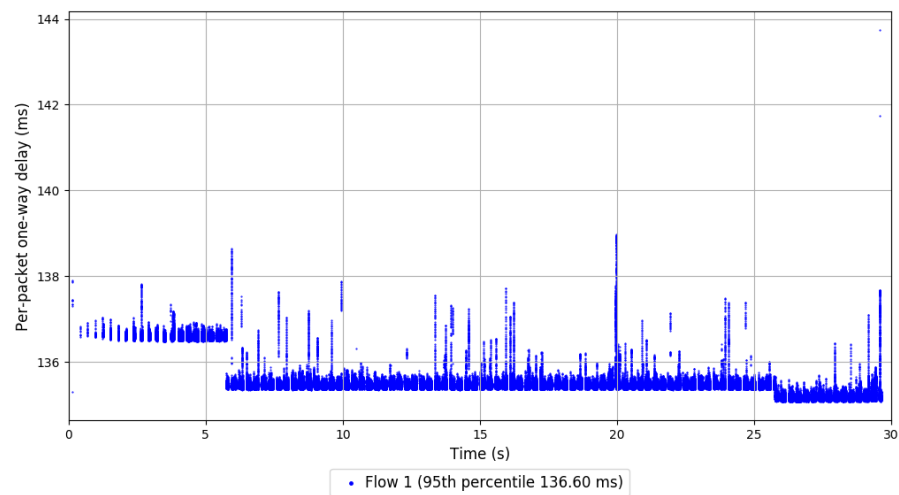
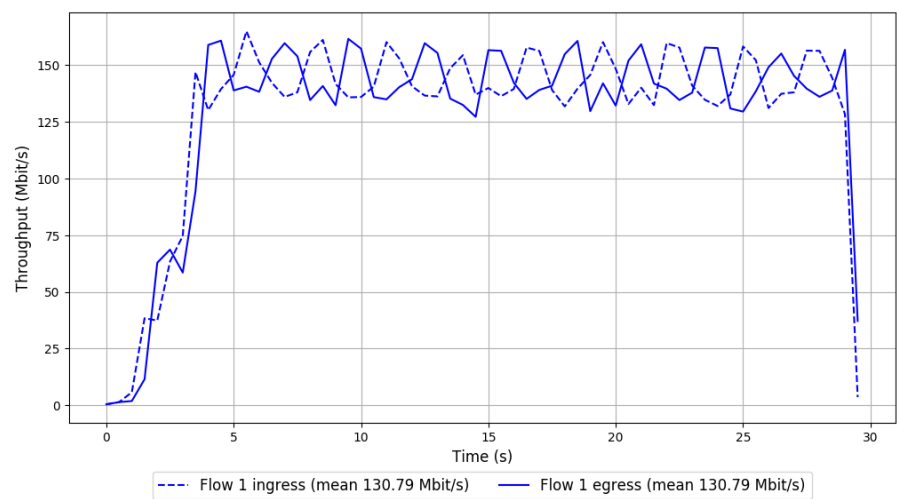
-- Flow 1:

Average throughput: 130.79 Mbit/s

95th percentile per-packet one-way delay: 136.598 ms

Loss rate: 0.00%

Run 8: Report of Indigo-calib — Data Link



Run 9: Statistics of Indigo-calib

Start at: 2017-12-05 19:42:53

End at: 2017-12-05 19:43:24

Below is generated by plot.py at 2017-12-05 21:08:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 131.88 Mbit/s

95th percentile per-packet one-way delay: 135.657 ms

Loss rate: 0.00%

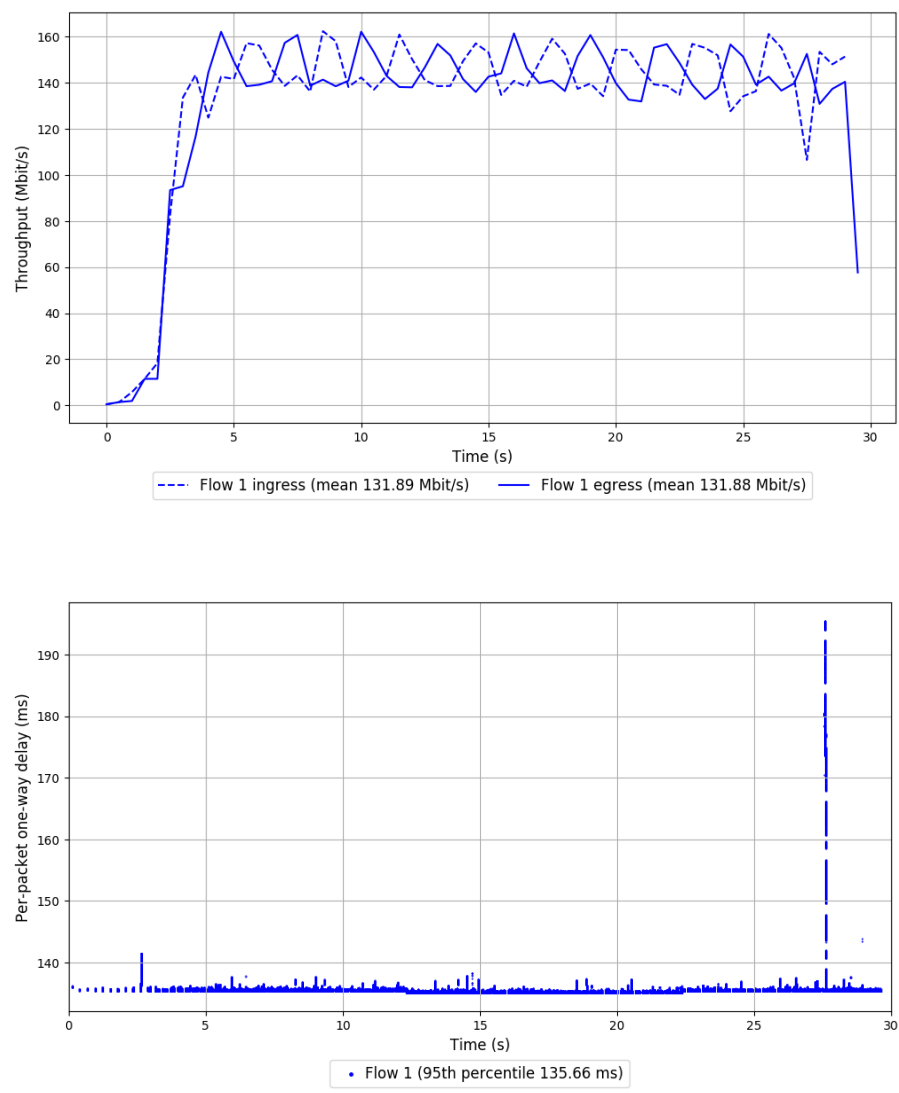
-- Flow 1:

Average throughput: 131.88 Mbit/s

95th percentile per-packet one-way delay: 135.657 ms

Loss rate: 0.00%

Run 9: Report of Indigo-calib — Data Link



Run 10: Statistics of Indigo-calib

Start at: 2017-12-05 19:54:34

End at: 2017-12-05 19:55:04

Below is generated by plot.py at 2017-12-05 21:08:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 131.85 Mbit/s

95th percentile per-packet one-way delay: 136.717 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 131.85 Mbit/s

95th percentile per-packet one-way delay: 136.717 ms

Loss rate: 0.04%

Run 10: Report of Indigo-calib — Data Link

