

Pantheon Report

Generated at 2017-12-11 21:46:34 (UTC).

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

Repeated the test of 14 congestion control schemes 10 times.

Each test lasted for 30 seconds running 1 flow.

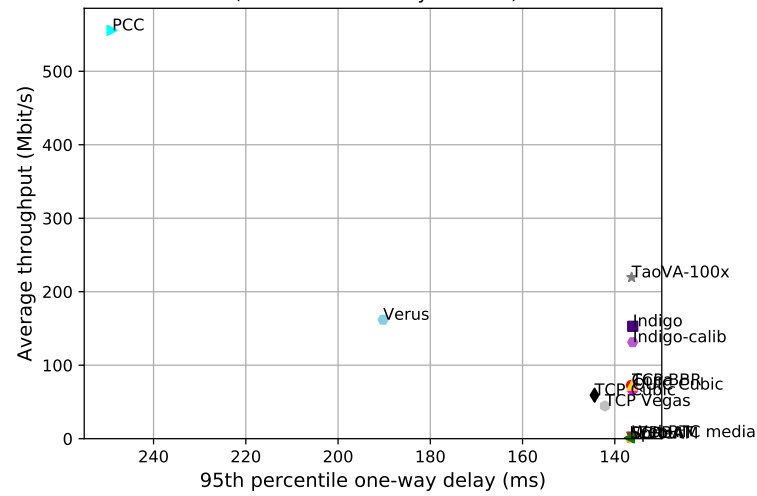
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

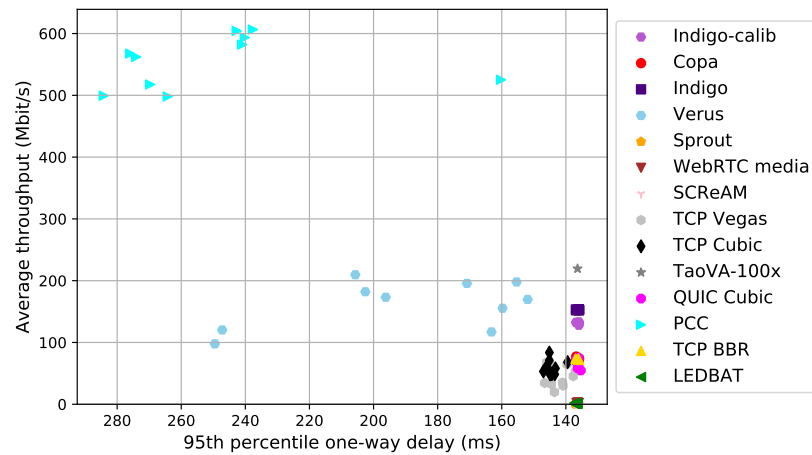
Git summary:

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



test from GCE London Ethernet to GCE Sydney 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	72.70	136.26	1.00
TCP Cubic	10	59.16	144.39	1.04
LEDBAT	10	1.02	136.85	1.21
PCC	10	555.62	248.98	3.82
QUIC Cubic	10	66.81	136.16	1.17
SCReAM	10	0.22	136.55	0.89
WebRTC media	10	2.12	136.31	1.02
Sprout	10	0.40	136.59	0.77
TaoVA-100x	1	219.50	136.35	1.01
TCP Vegas	10	44.53	142.14	0.81
Verus	10	161.85	190.23	2.02
Copa	7	72.52	136.37	1.06
Indigo	10	152.93	136.11	0.99
Indigo-calib	10	131.31	136.11	1.01

Run 1: Statistics of TCP BBR

Start at: 2017-12-11 17:26:09

End at: 2017-12-11 17:26:39

Below is generated by plot.py at 2017-12-11 21:13:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.88 Mbit/s

95th percentile per-packet one-way delay: 136.045 ms

Loss rate: 1.00%

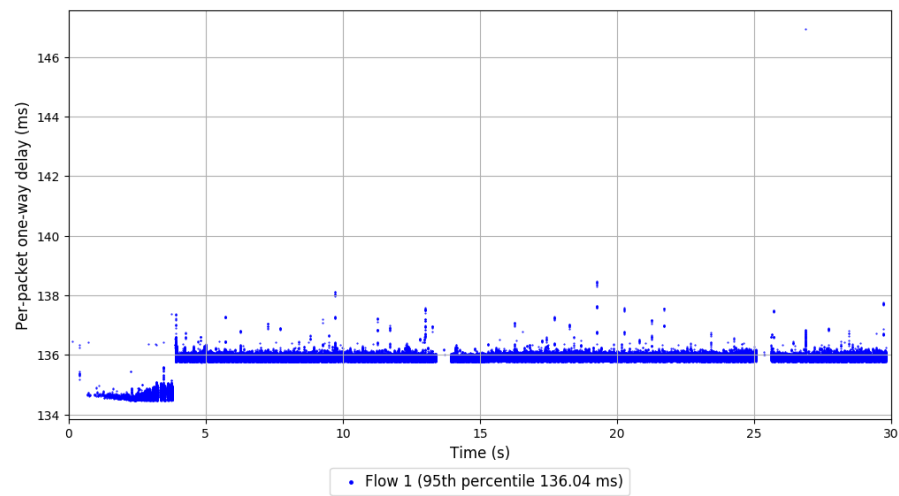
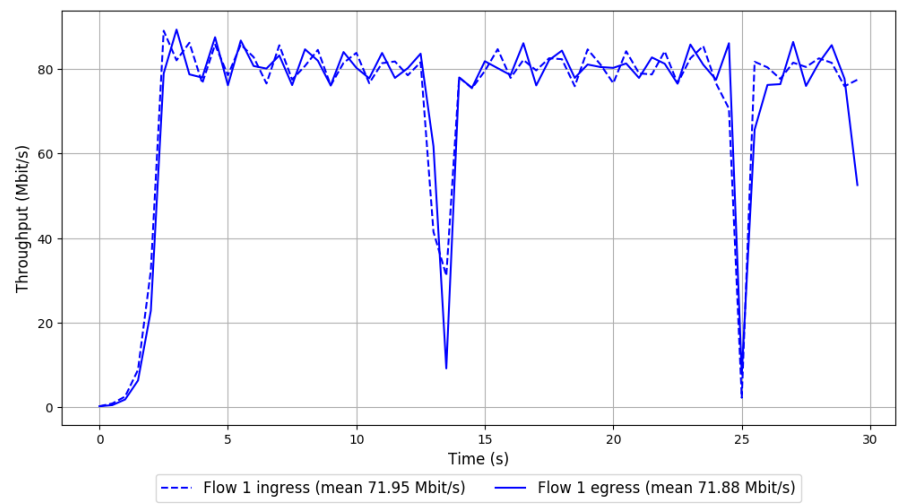
-- Flow 1:

Average throughput: 71.88 Mbit/s

95th percentile per-packet one-way delay: 136.045 ms

Loss rate: 1.00%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2017-12-11 17:37:43

End at: 2017-12-11 17:38:13

Below is generated by plot.py at 2017-12-11 21:13:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.94 Mbit/s

95th percentile per-packet one-way delay: 136.083 ms

Loss rate: 0.96%

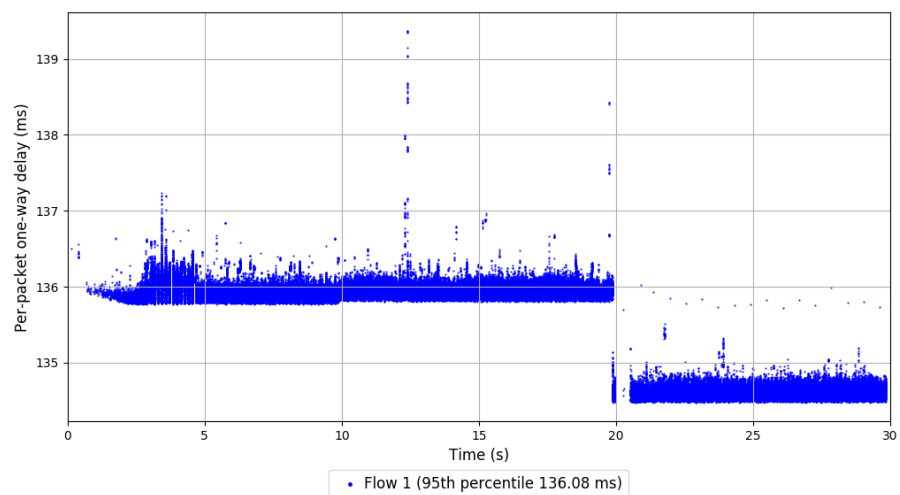
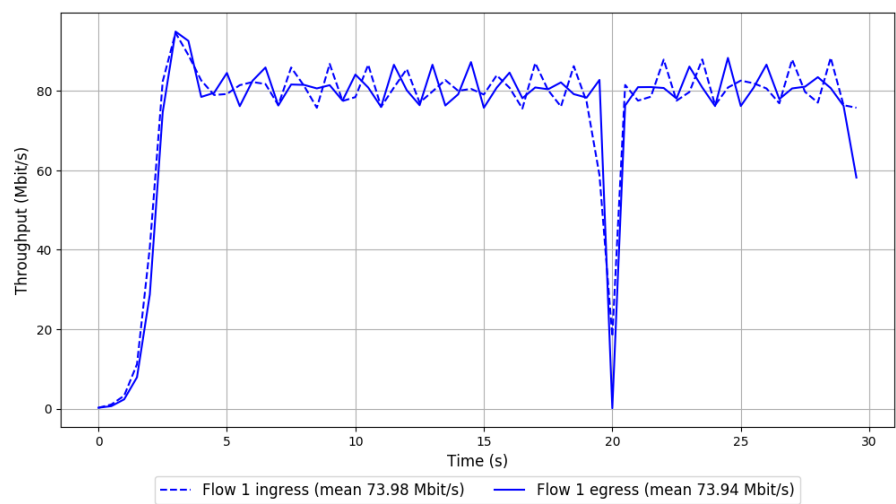
-- Flow 1:

Average throughput: 73.94 Mbit/s

95th percentile per-packet one-way delay: 136.083 ms

Loss rate: 0.96%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2017-12-11 17:49:16

End at: 2017-12-11 17:49:46

Below is generated by plot.py at 2017-12-11 21:13:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.52 Mbit/s

95th percentile per-packet one-way delay: 136.950 ms

Loss rate: 0.98%

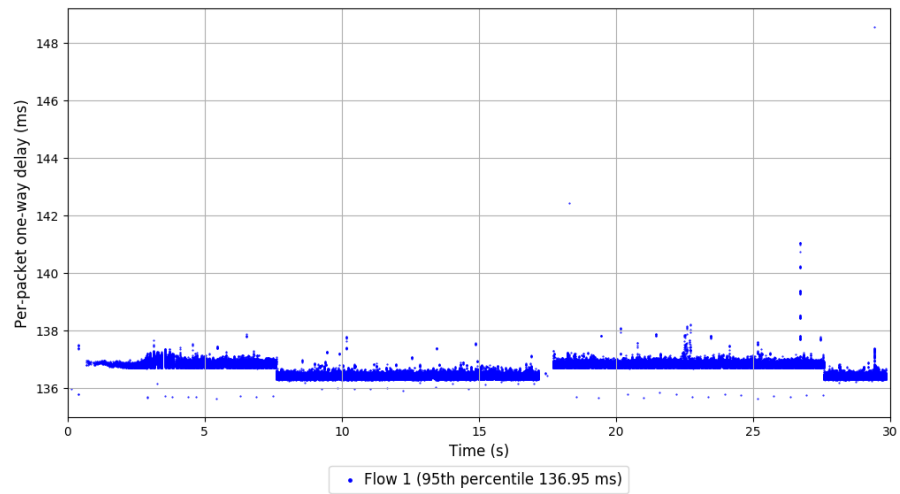
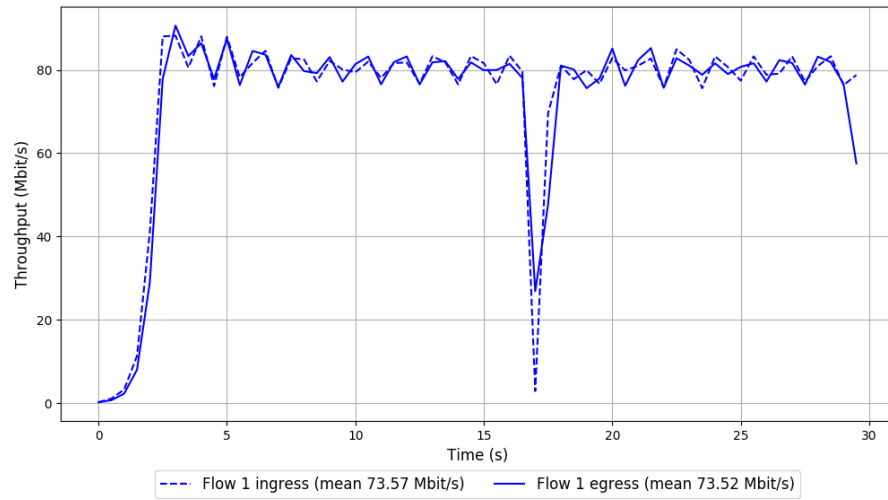
-- Flow 1:

Average throughput: 73.52 Mbit/s

95th percentile per-packet one-way delay: 136.950 ms

Loss rate: 0.98%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2017-12-11 18:00:38

End at: 2017-12-11 18:01:08

Below is generated by plot.py at 2017-12-11 21:13:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.65 Mbit/s

95th percentile per-packet one-way delay: 136.961 ms

Loss rate: 0.99%

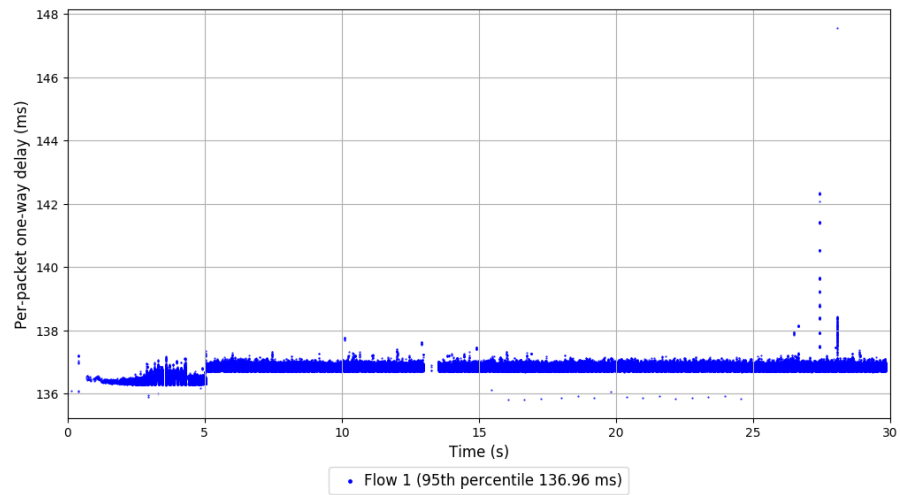
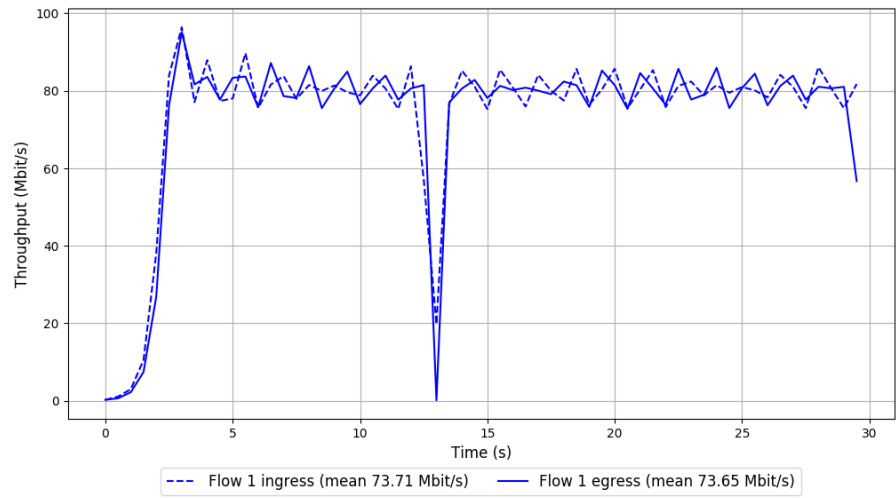
-- Flow 1:

Average throughput: 73.65 Mbit/s

95th percentile per-packet one-way delay: 136.961 ms

Loss rate: 0.99%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2017-12-11 18:12:03

End at: 2017-12-11 18:12:33

Below is generated by plot.py at 2017-12-11 21:13:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.03 Mbit/s

95th percentile per-packet one-way delay: 136.051 ms

Loss rate: 1.00%

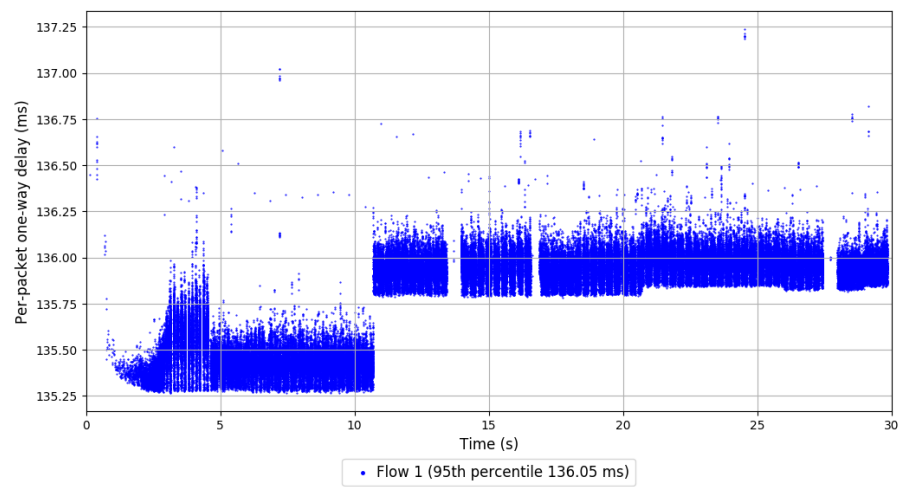
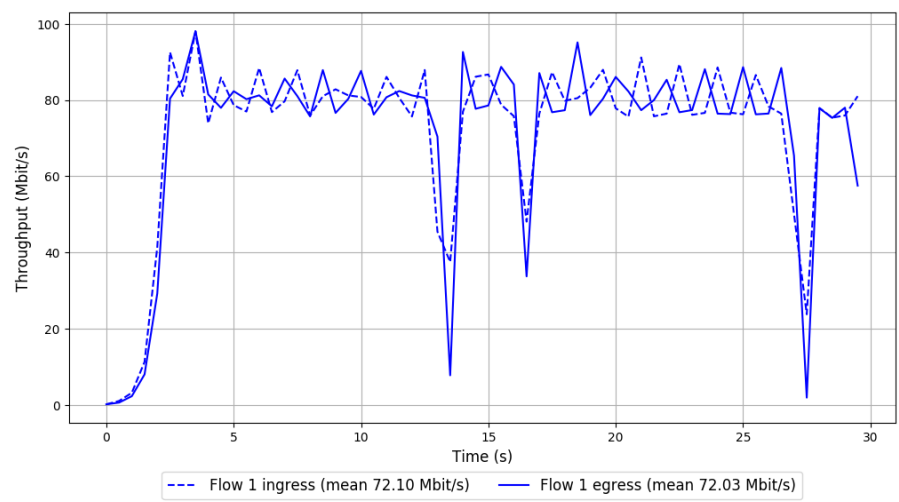
-- Flow 1:

Average throughput: 72.03 Mbit/s

95th percentile per-packet one-way delay: 136.051 ms

Loss rate: 1.00%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2017-12-11 18:23:44

End at: 2017-12-11 18:24:14

Below is generated by plot.py at 2017-12-11 21:13:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.18 Mbit/s

95th percentile per-packet one-way delay: 136.119 ms

Loss rate: 1.11%

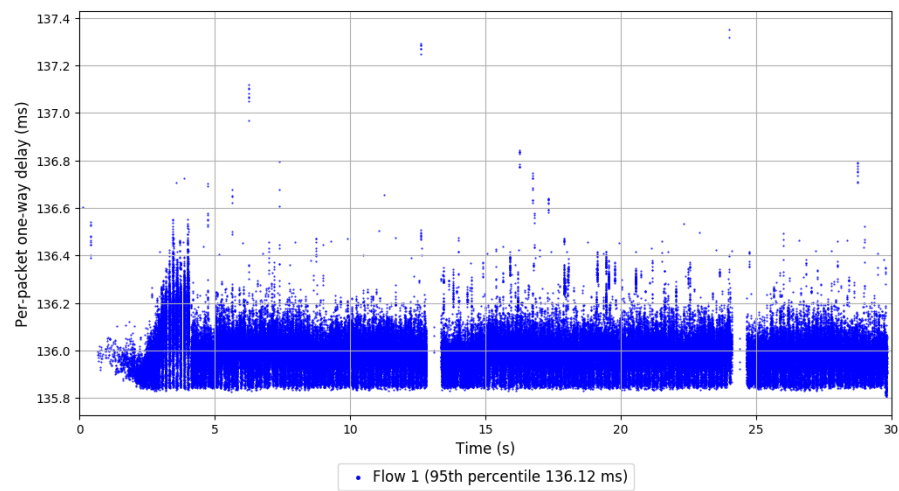
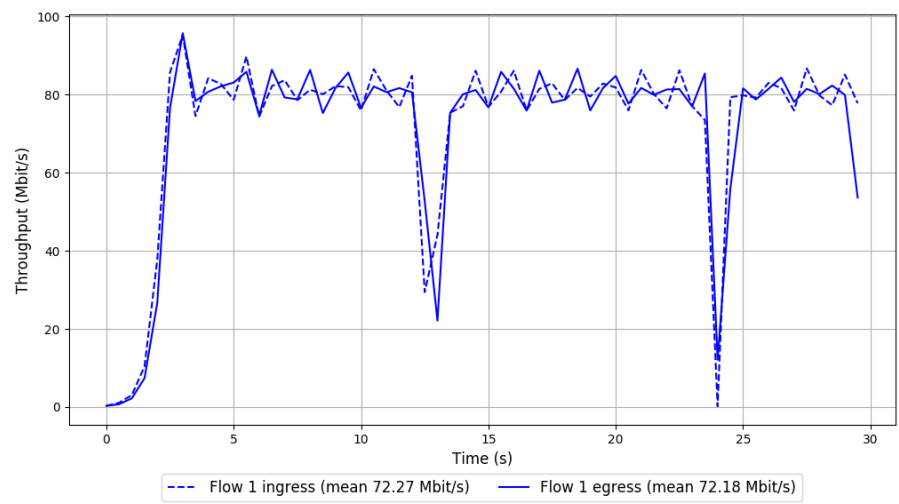
-- Flow 1:

Average throughput: 72.18 Mbit/s

95th percentile per-packet one-way delay: 136.119 ms

Loss rate: 1.11%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2017-12-11 18:35:17

End at: 2017-12-11 18:35:47

Below is generated by plot.py at 2017-12-11 21:13:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.10 Mbit/s

95th percentile per-packet one-way delay: 136.107 ms

Loss rate: 1.10%

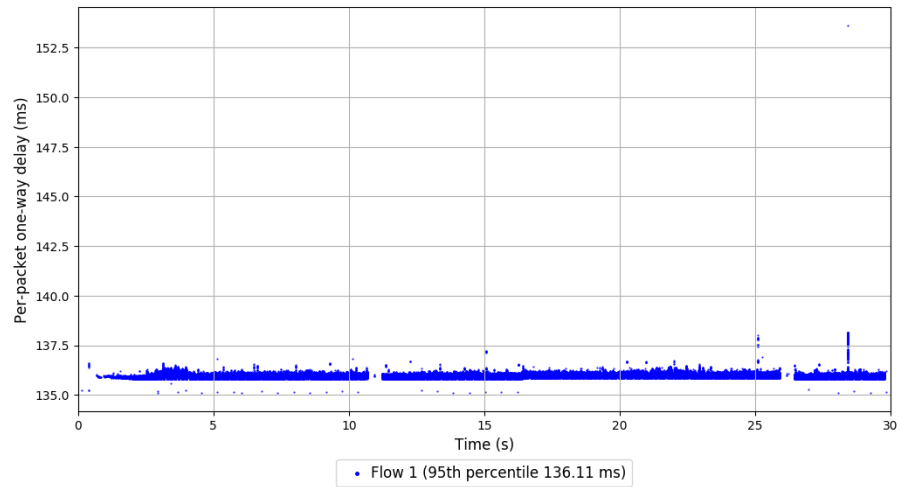
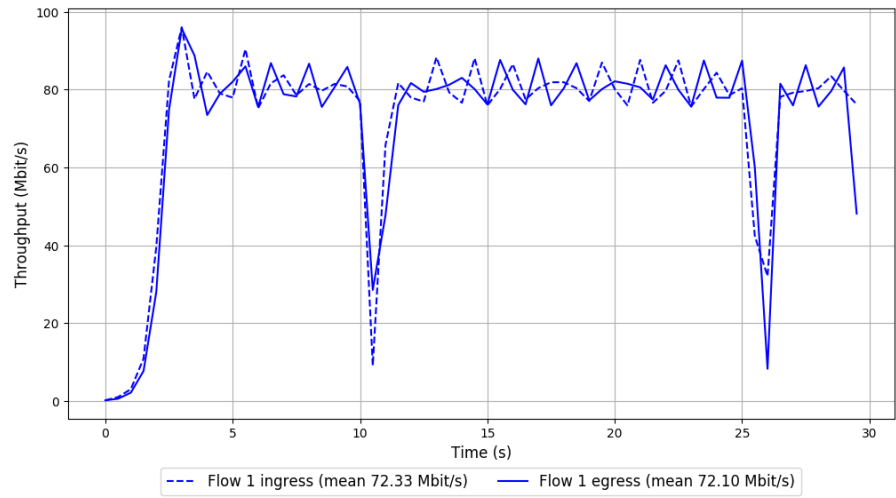
-- Flow 1:

Average throughput: 72.10 Mbit/s

95th percentile per-packet one-way delay: 136.107 ms

Loss rate: 1.10%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2017-12-11 18:46:45

End at: 2017-12-11 18:47:15

Below is generated by plot.py at 2017-12-11 21:13:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.72 Mbit/s

95th percentile per-packet one-way delay: 136.096 ms

Loss rate: 0.97%

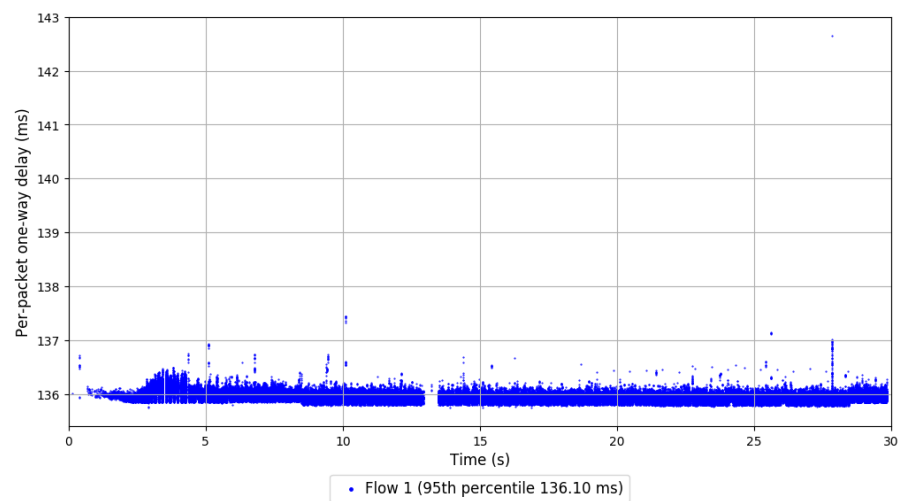
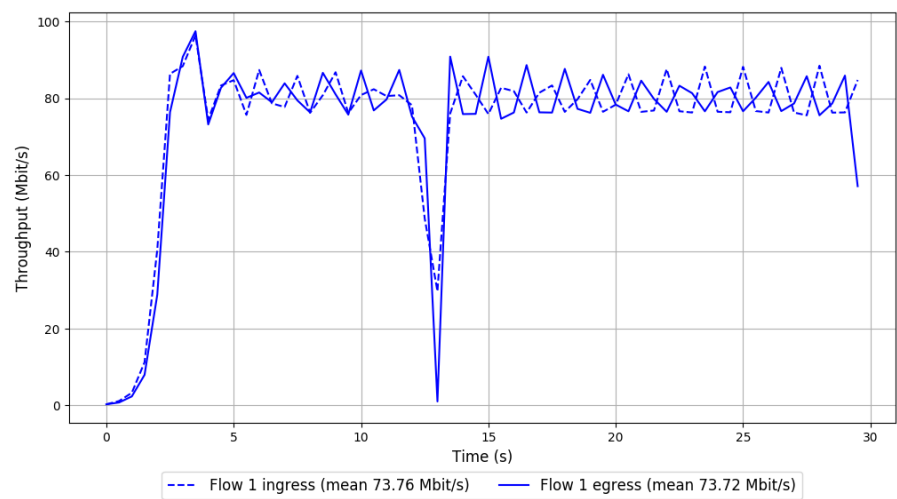
-- Flow 1:

Average throughput: 73.72 Mbit/s

95th percentile per-packet one-way delay: 136.096 ms

Loss rate: 0.97%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2017-12-11 18:58:15

End at: 2017-12-11 18:58:45

Below is generated by plot.py at 2017-12-11 21:14:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.18 Mbit/s

95th percentile per-packet one-way delay: 136.117 ms

Loss rate: 0.90%

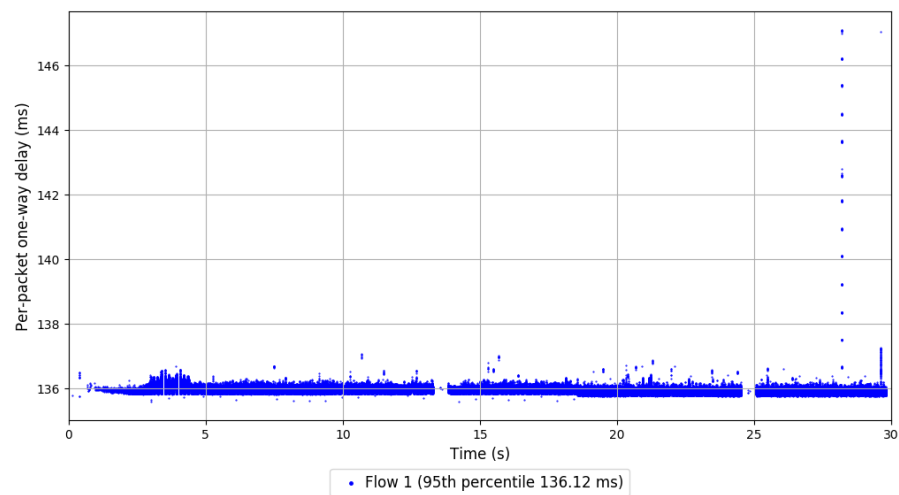
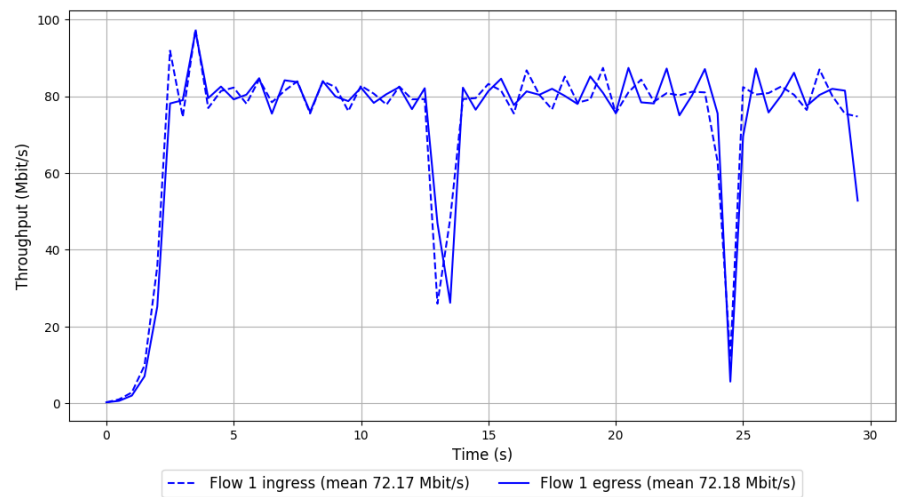
-- Flow 1:

Average throughput: 72.18 Mbit/s

95th percentile per-packet one-way delay: 136.117 ms

Loss rate: 0.90%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2017-12-11 19:09:37

End at: 2017-12-11 19:10:07

Below is generated by plot.py at 2017-12-11 21:14:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.84 Mbit/s

95th percentile per-packet one-way delay: 136.086 ms

Loss rate: 0.99%

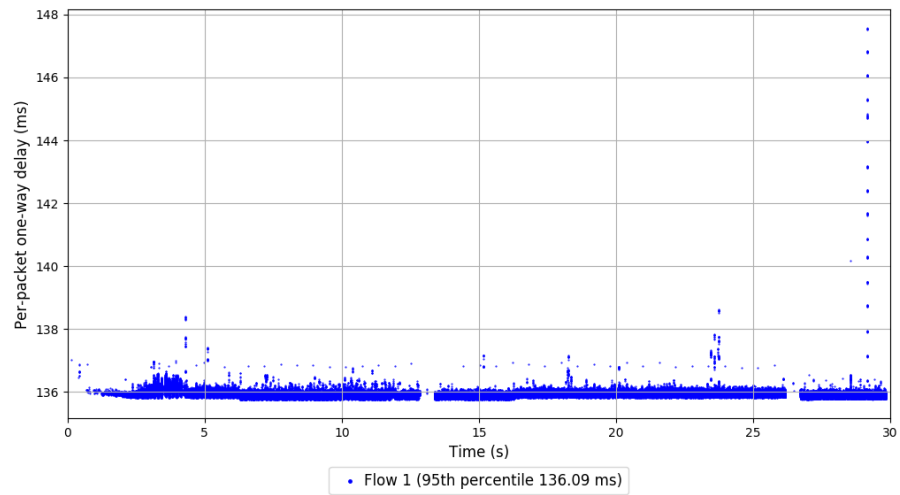
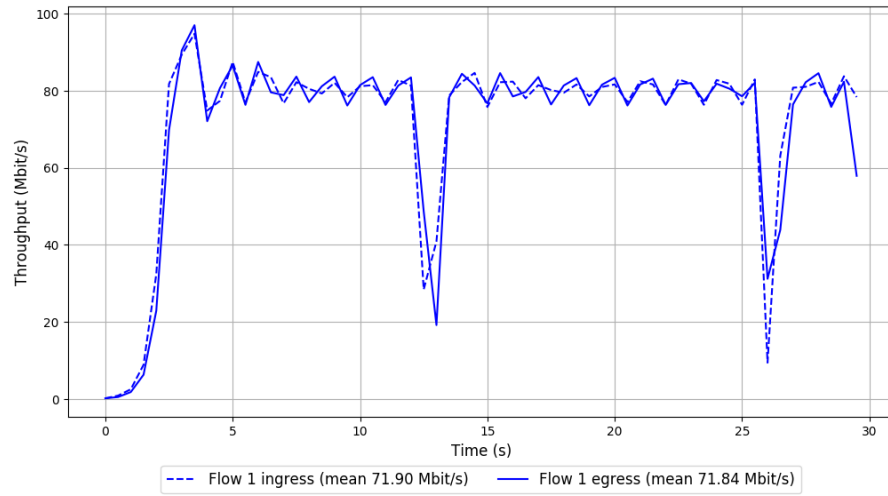
-- Flow 1:

Average throughput: 71.84 Mbit/s

95th percentile per-packet one-way delay: 136.086 ms

Loss rate: 0.99%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2017-12-11 17:30:03

End at: 2017-12-11 17:30:33

Below is generated by plot.py at 2017-12-11 21:14:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 52.71 Mbit/s

95th percentile per-packet one-way delay: 144.949 ms

Loss rate: 0.86%

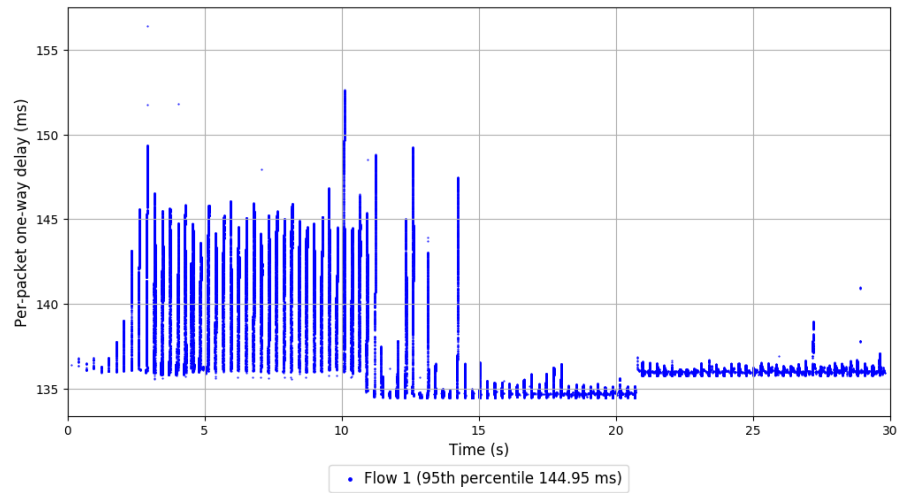
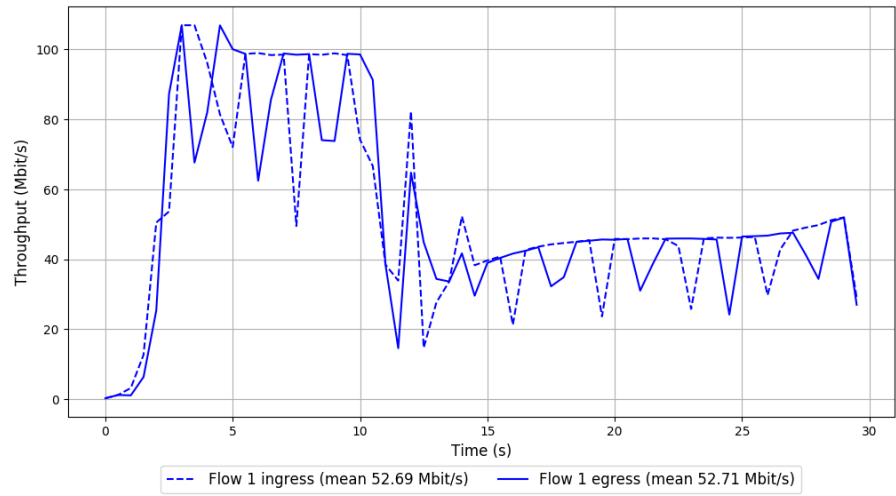
-- Flow 1:

Average throughput: 52.71 Mbit/s

95th percentile per-packet one-way delay: 144.949 ms

Loss rate: 0.86%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2017-12-11 17:41:34

End at: 2017-12-11 17:42:04

Below is generated by plot.py at 2017-12-11 21:14:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 48.72 Mbit/s

95th percentile per-packet one-way delay: 144.361 ms

Loss rate: 1.49%

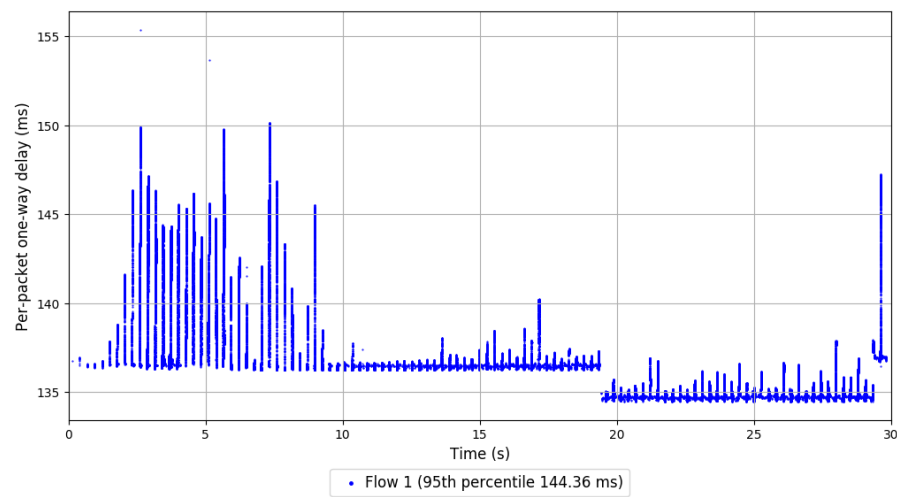
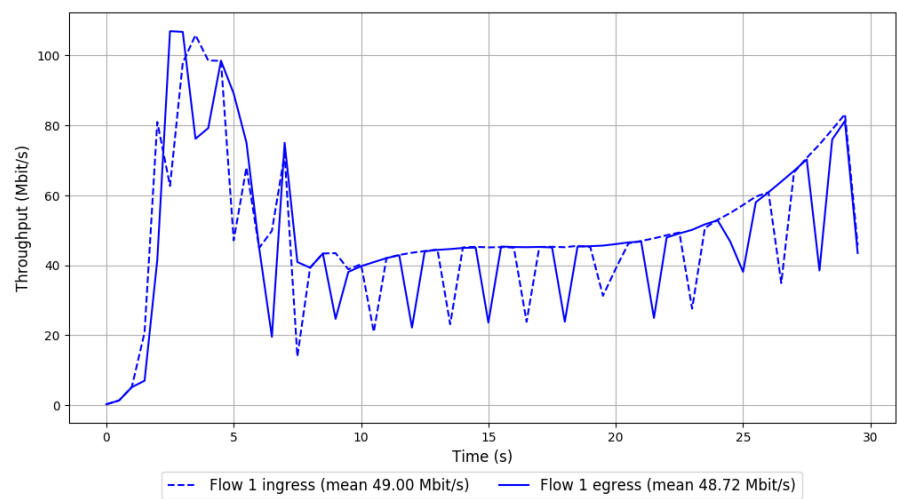
-- Flow 1:

Average throughput: 48.72 Mbit/s

95th percentile per-packet one-way delay: 144.361 ms

Loss rate: 1.49%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2017-12-11 17:53:07

End at: 2017-12-11 17:53:37

Below is generated by plot.py at 2017-12-11 21:14:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 53.13 Mbit/s

95th percentile per-packet one-way delay: 146.999 ms

Loss rate: 0.91%

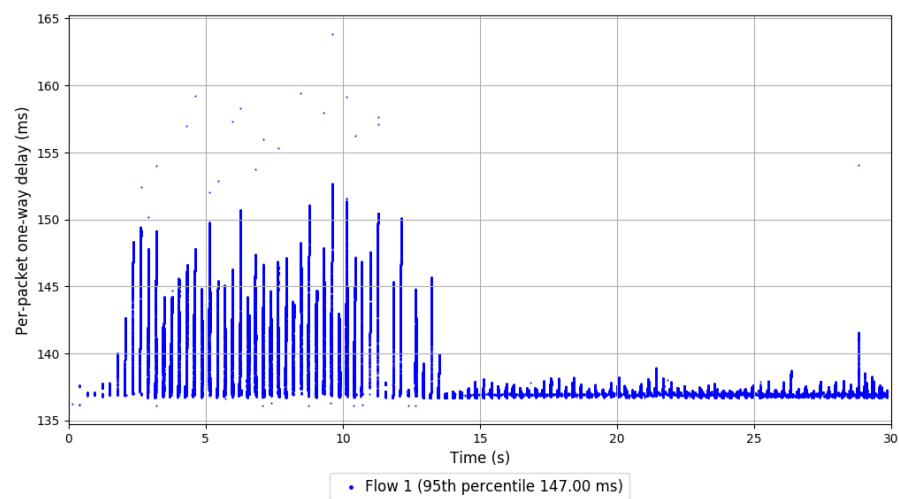
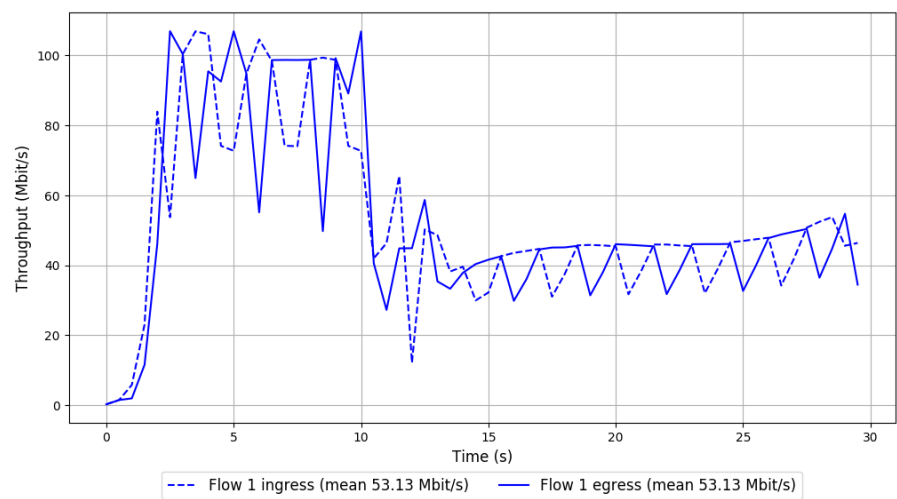
-- Flow 1:

Average throughput: 53.13 Mbit/s

95th percentile per-packet one-way delay: 146.999 ms

Loss rate: 0.91%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2017-12-11 18:04:30

End at: 2017-12-11 18:05:00

Below is generated by plot.py at 2017-12-11 21:14:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 59.31 Mbit/s

95th percentile per-packet one-way delay: 146.202 ms

Loss rate: 0.59%

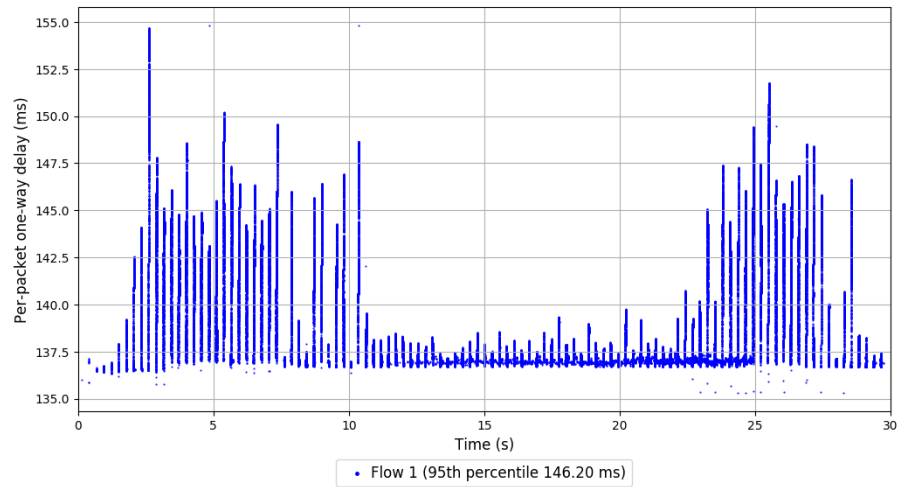
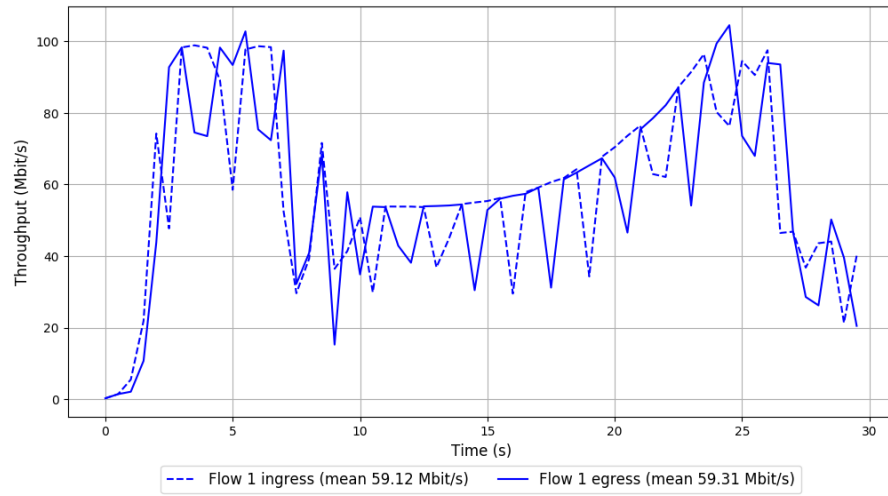
-- Flow 1:

Average throughput: 59.31 Mbit/s

95th percentile per-packet one-way delay: 146.202 ms

Loss rate: 0.59%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2017-12-11 18:15:54

End at: 2017-12-11 18:16:24

Below is generated by plot.py at 2017-12-11 21:14:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.63 Mbit/s

95th percentile per-packet one-way delay: 145.140 ms

Loss rate: 1.00%

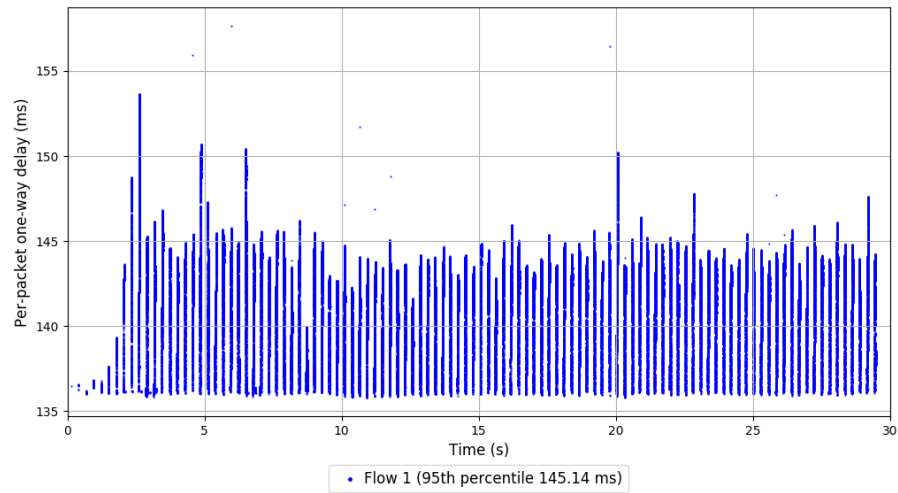
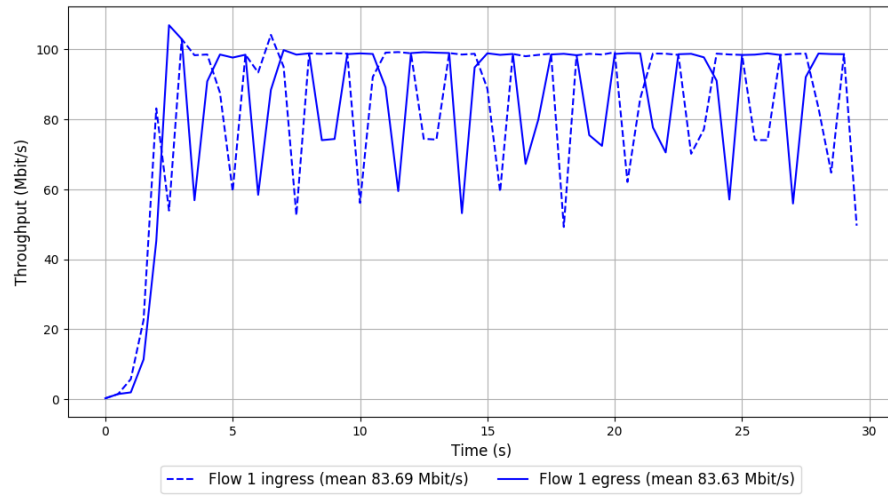
-- Flow 1:

Average throughput: 83.63 Mbit/s

95th percentile per-packet one-way delay: 145.140 ms

Loss rate: 1.00%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2017-12-11 18:27:36

End at: 2017-12-11 18:28:06

Below is generated by plot.py at 2017-12-11 21:14:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 70.93 Mbit/s

95th percentile per-packet one-way delay: 145.152 ms

Loss rate: 0.53%

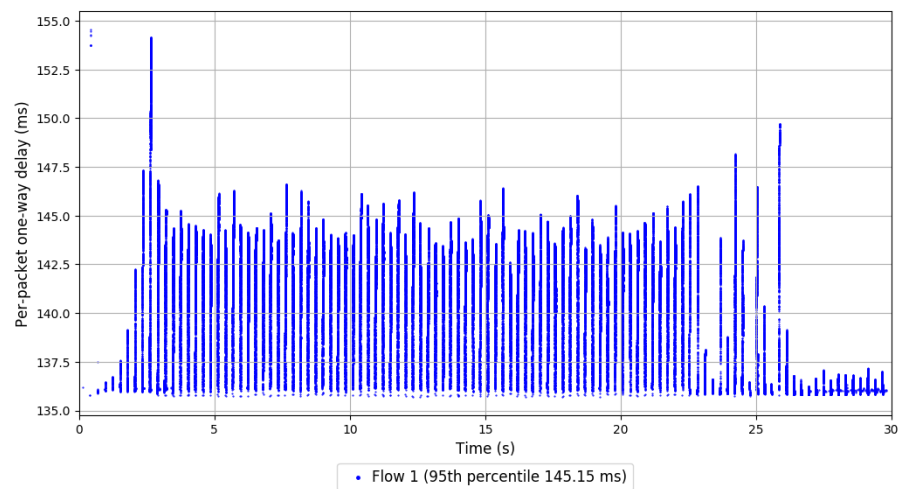
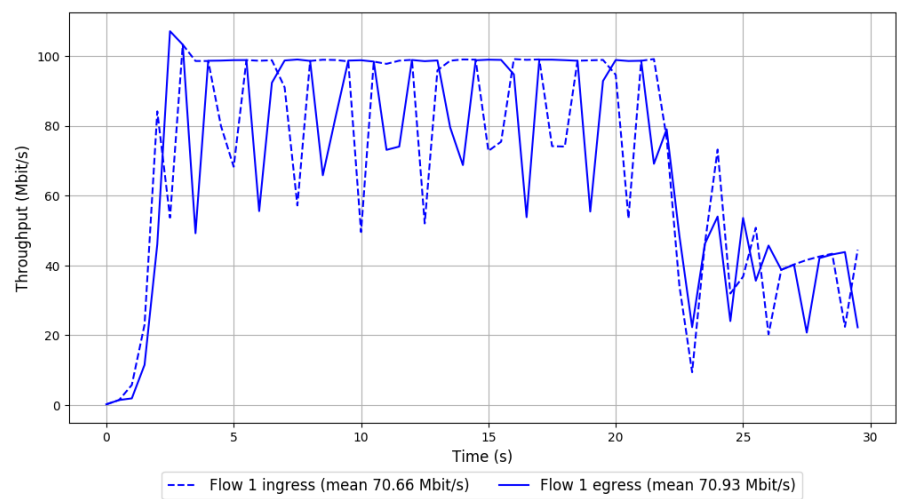
-- Flow 1:

Average throughput: 70.93 Mbit/s

95th percentile per-packet one-way delay: 145.152 ms

Loss rate: 0.53%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2017-12-11 18:39:08

End at: 2017-12-11 18:39:38

Below is generated by plot.py at 2017-12-11 21:15:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 68.26 Mbit/s

95th percentile per-packet one-way delay: 139.470 ms

Loss rate: 1.17%

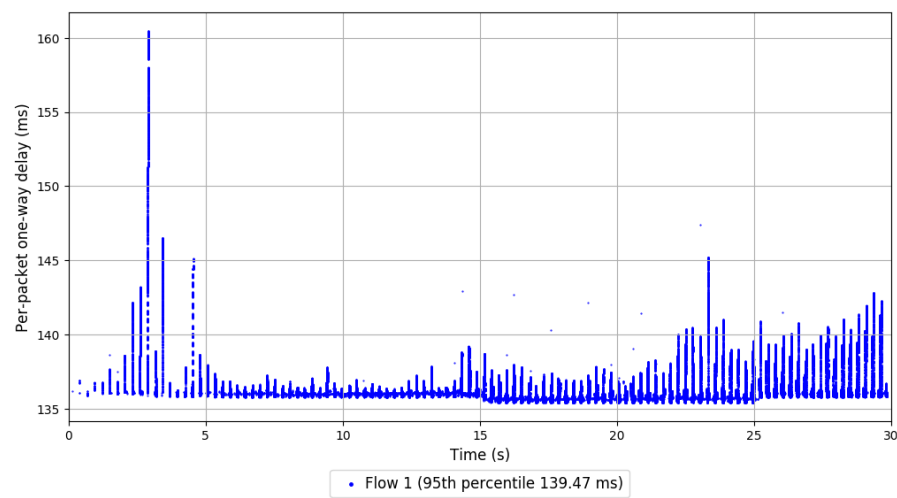
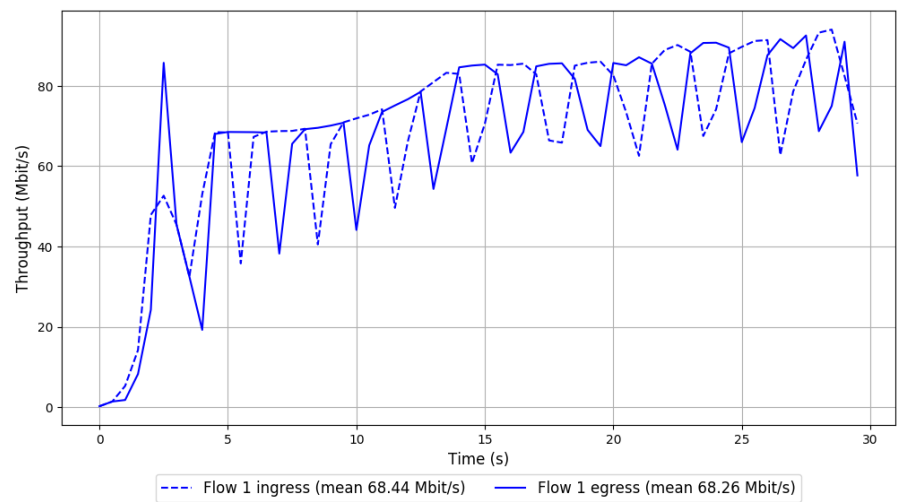
-- Flow 1:

Average throughput: 68.26 Mbit/s

95th percentile per-packet one-way delay: 139.470 ms

Loss rate: 1.17%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2017-12-11 18:50:39

End at: 2017-12-11 18:51:09

Below is generated by plot.py at 2017-12-11 21:15:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 58.02 Mbit/s

95th percentile per-packet one-way delay: 143.256 ms

Loss rate: 0.90%

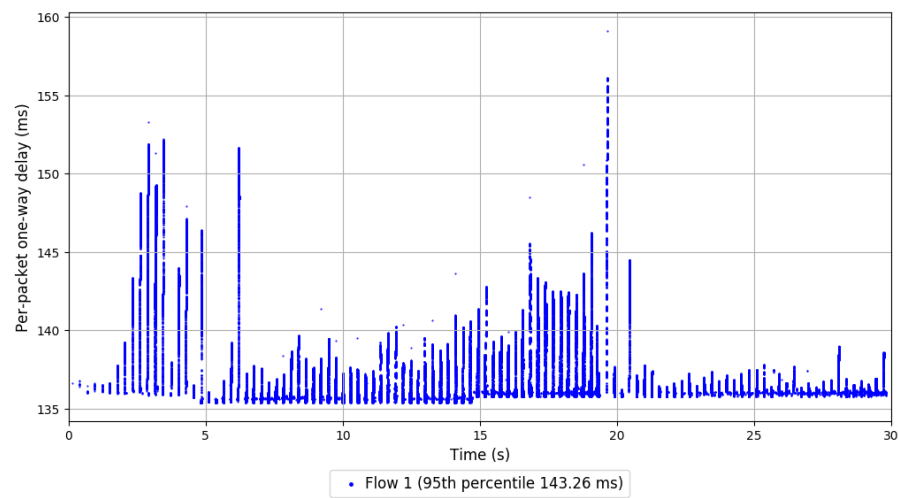
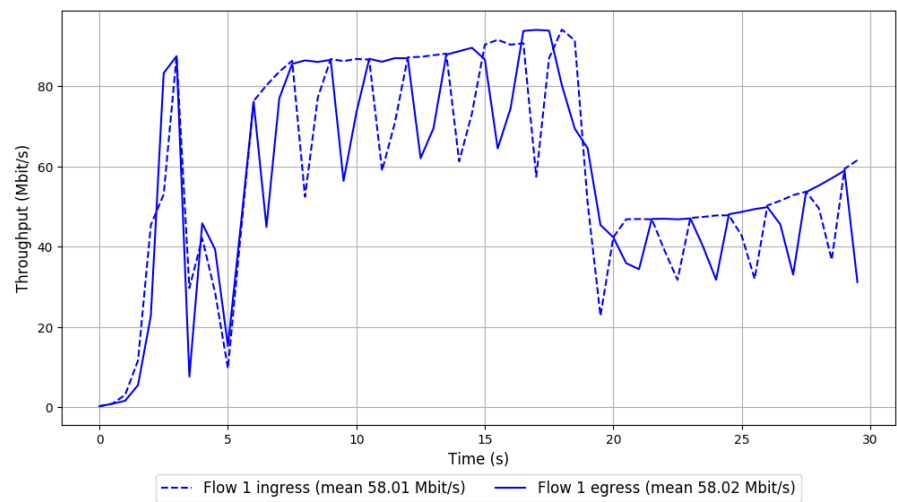
-- Flow 1:

Average throughput: 58.02 Mbit/s

95th percentile per-packet one-way delay: 143.256 ms

Loss rate: 0.90%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2017-12-11 19:02:07

End at: 2017-12-11 19:02:37

Below is generated by plot.py at 2017-12-11 21:15:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 48.47 Mbit/s

95th percentile per-packet one-way delay: 143.473 ms

Loss rate: 1.62%

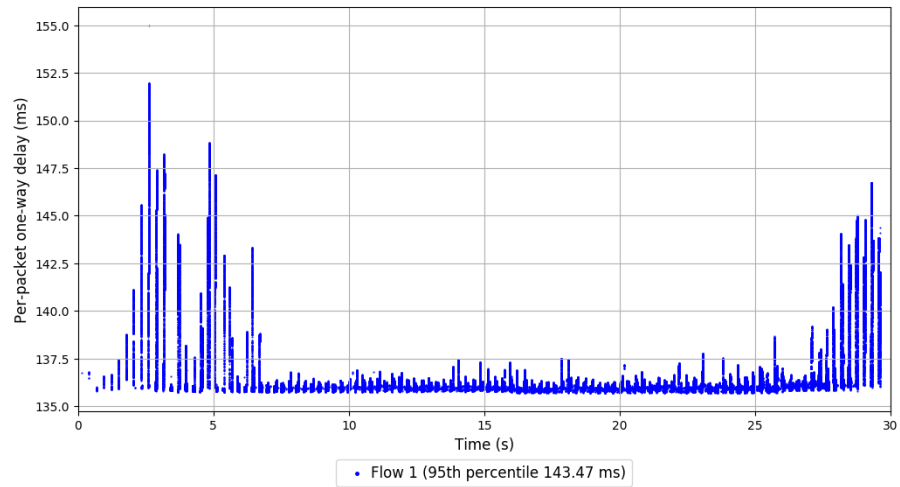
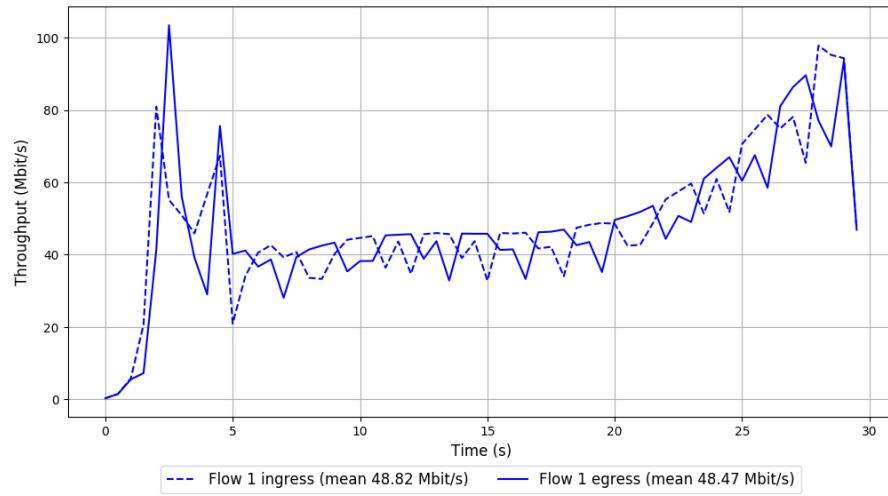
-- Flow 1:

Average throughput: 48.47 Mbit/s

95th percentile per-packet one-way delay: 143.473 ms

Loss rate: 1.62%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2017-12-11 19:13:28

End at: 2017-12-11 19:13:58

Below is generated by plot.py at 2017-12-11 21:15:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 48.46 Mbit/s

95th percentile per-packet one-way delay: 144.939 ms

Loss rate: 1.35%

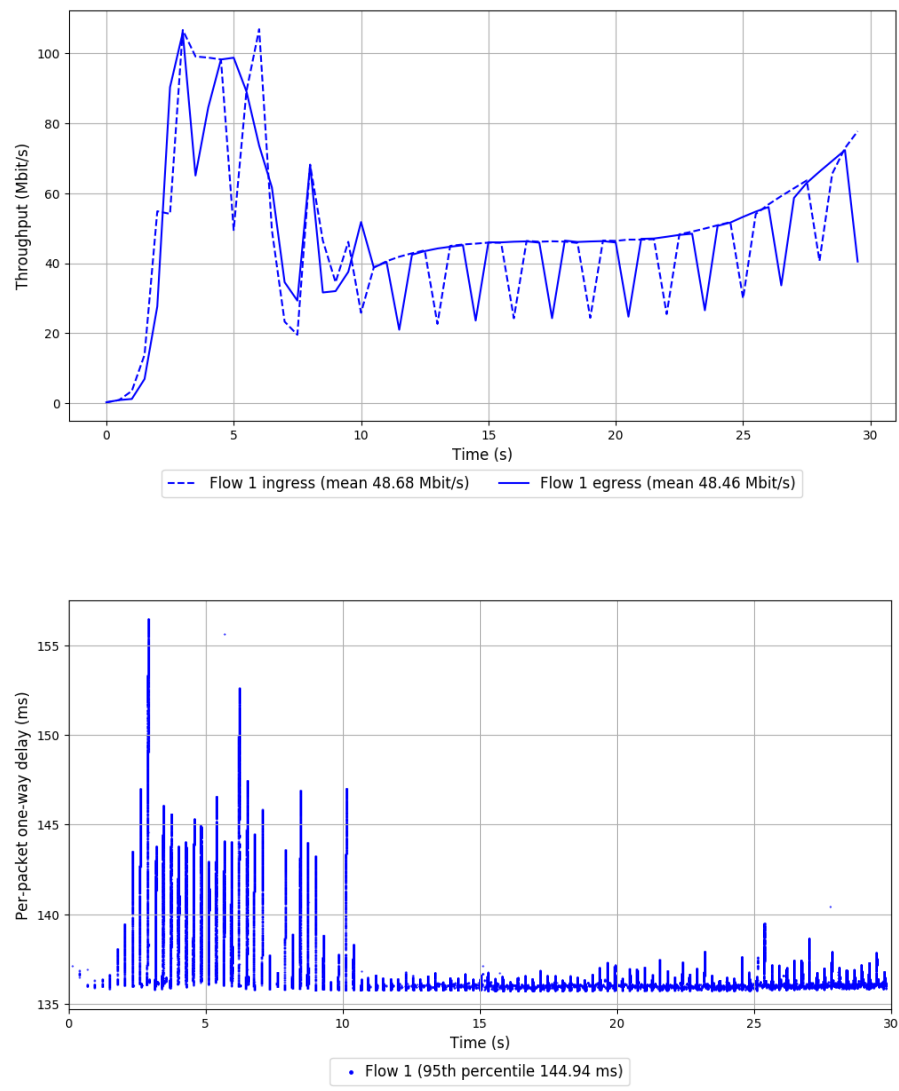
-- Flow 1:

Average throughput: 48.46 Mbit/s

95th percentile per-packet one-way delay: 144.939 ms

Loss rate: 1.35%

Run 10: Report of TCP Cubic — Data Link

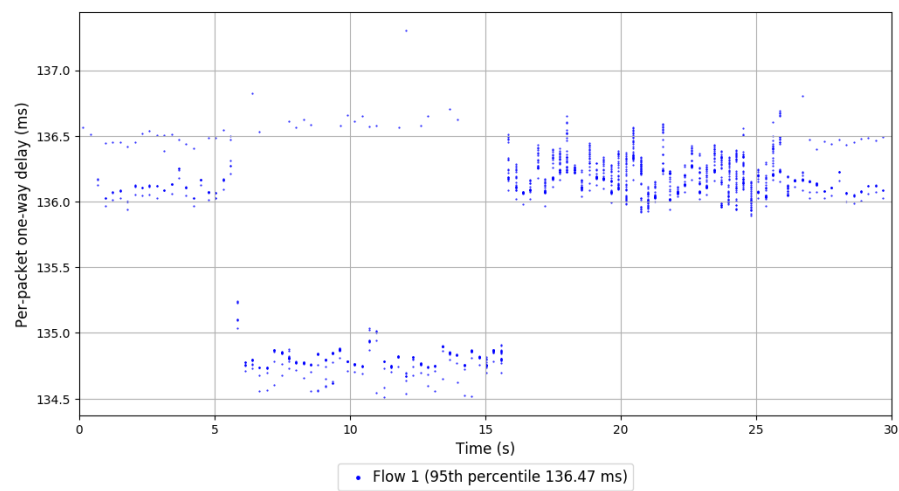
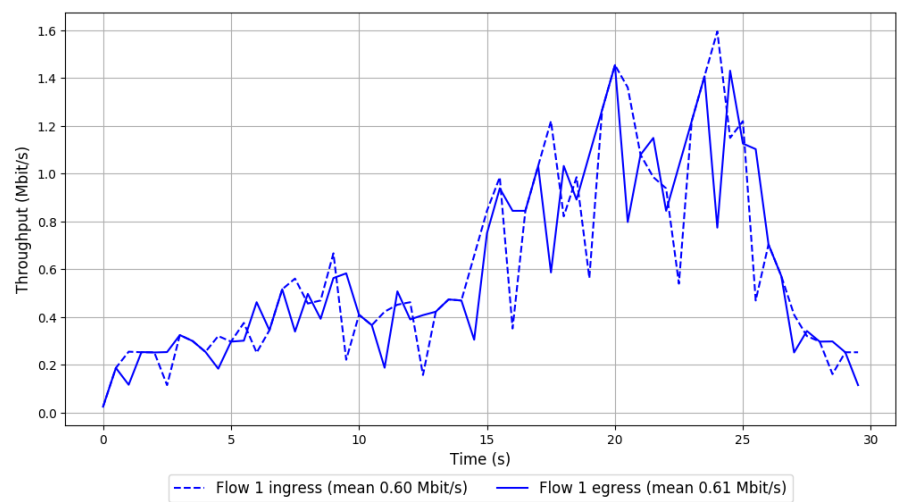


```
Run 1: Statistics of LEDBAT

Start at: 2017-12-11 17:28:38
End at: 2017-12-11 17:29:08

# Below is generated by plot.py at 2017-12-11 21:15:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.61 Mbit/s
95th percentile per-packet one-way delay: 136.473 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.61 Mbit/s
95th percentile per-packet one-way delay: 136.473 ms
Loss rate: 0.38%
```


Run 1: Report of LEDBAT — Data Link

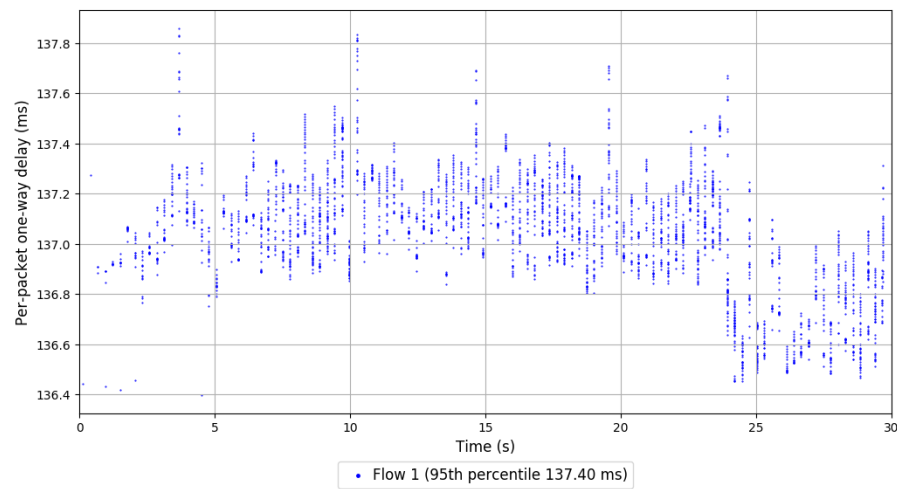
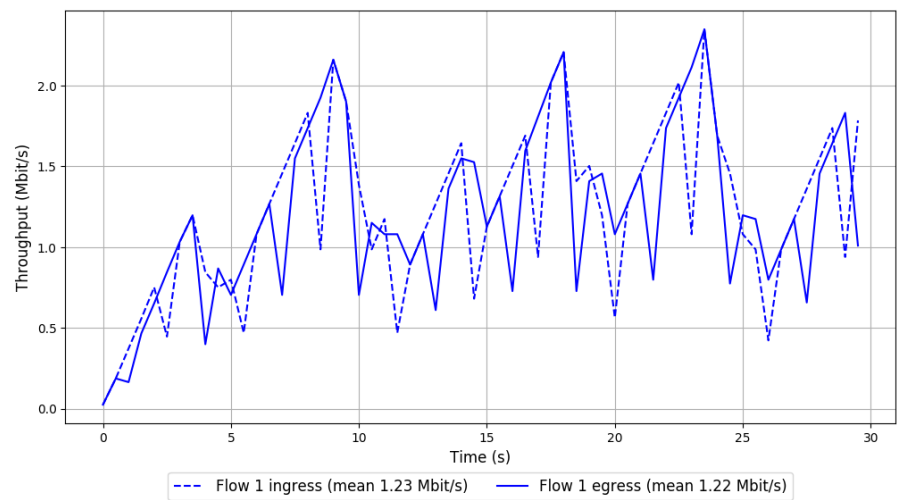


```
Run 2: Statistics of LEDBAT

Start at: 2017-12-11 17:40:10
End at: 2017-12-11 17:40:40

# Below is generated by plot.py at 2017-12-11 21:15:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.22 Mbit/s
95th percentile per-packet one-way delay: 137.397 ms
Loss rate: 1.06%
-- Flow 1:
Average throughput: 1.22 Mbit/s
95th percentile per-packet one-way delay: 137.397 ms
Loss rate: 1.06%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2017-12-11 17:51:42

End at: 2017-12-11 17:52:12

Below is generated by plot.py at 2017-12-11 21:15:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.02 Mbit/s

95th percentile per-packet one-way delay: 137.361 ms

Loss rate: 1.23%

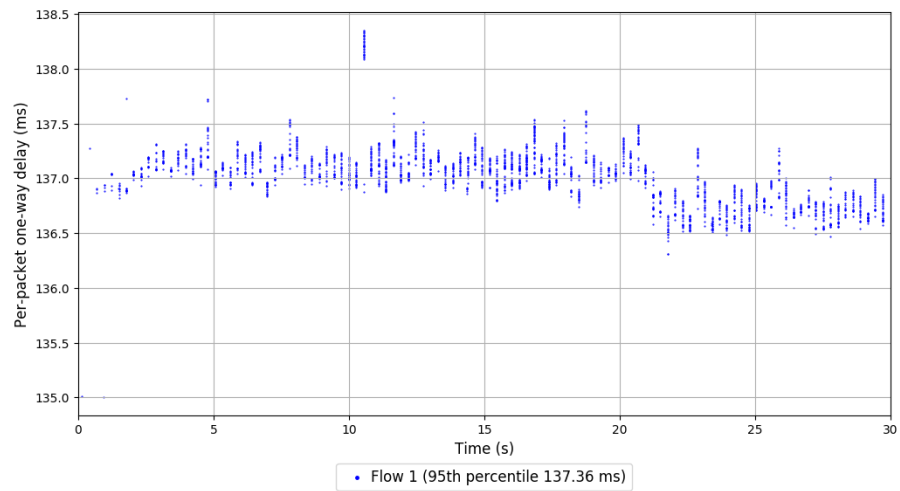
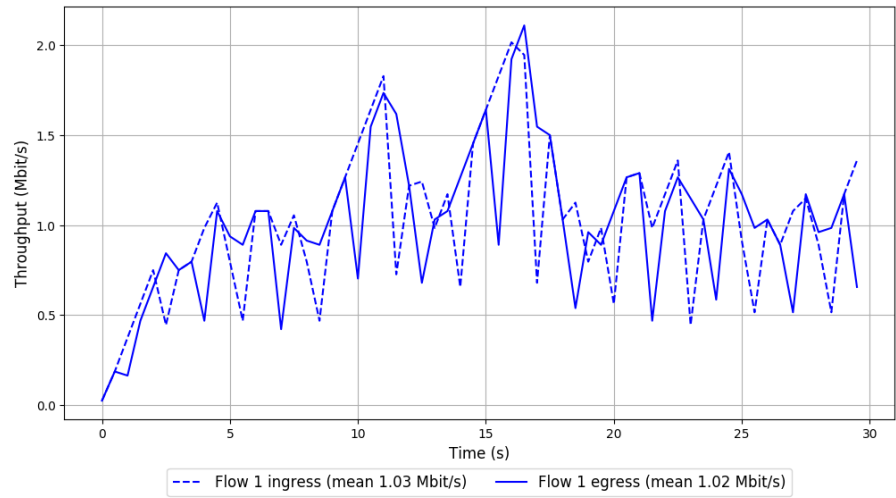
-- Flow 1:

Average throughput: 1.02 Mbit/s

95th percentile per-packet one-way delay: 137.361 ms

Loss rate: 1.23%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2017-12-11 18:03:06

End at: 2017-12-11 18:03:36

Below is generated by plot.py at 2017-12-11 21:15:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.38 Mbit/s

95th percentile per-packet one-way delay: 137.453 ms

Loss rate: 1.39%

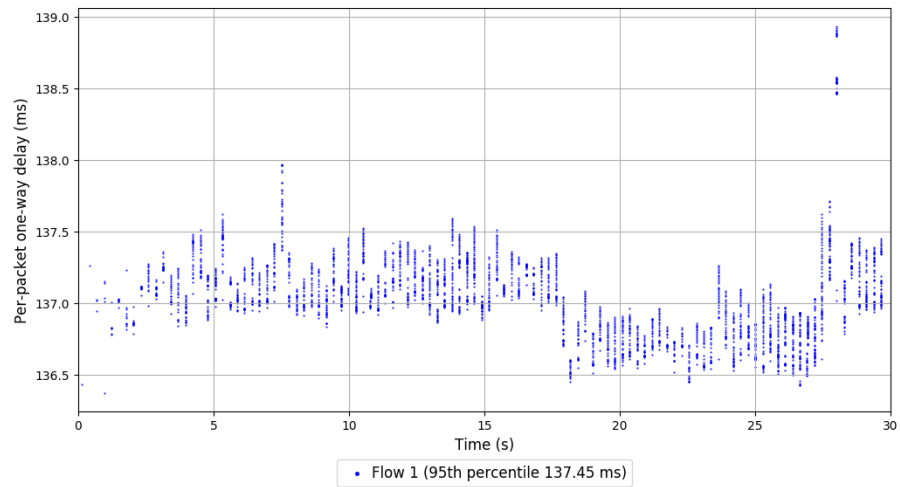
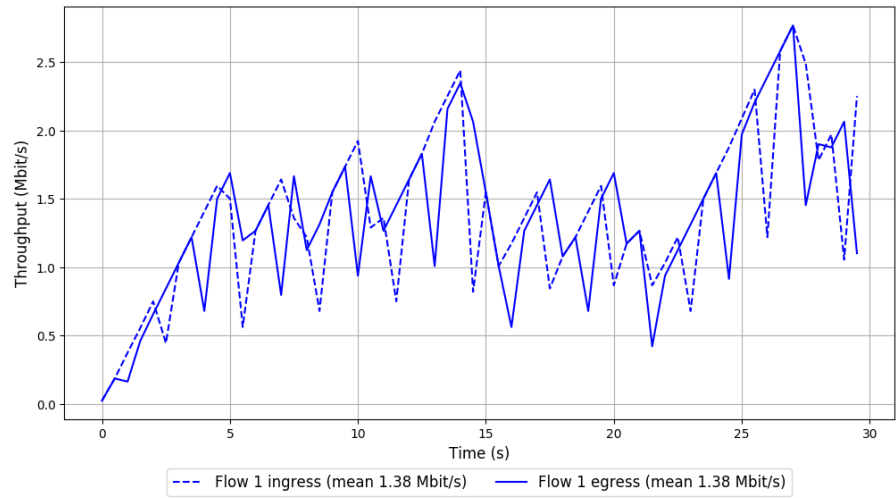
-- Flow 1:

Average throughput: 1.38 Mbit/s

95th percentile per-packet one-way delay: 137.453 ms

Loss rate: 1.39%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2017-12-11 18:14:29

End at: 2017-12-11 18:14:59

Below is generated by plot.py at 2017-12-11 21:15:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.03 Mbit/s

95th percentile per-packet one-way delay: 136.418 ms

Loss rate: 0.80%

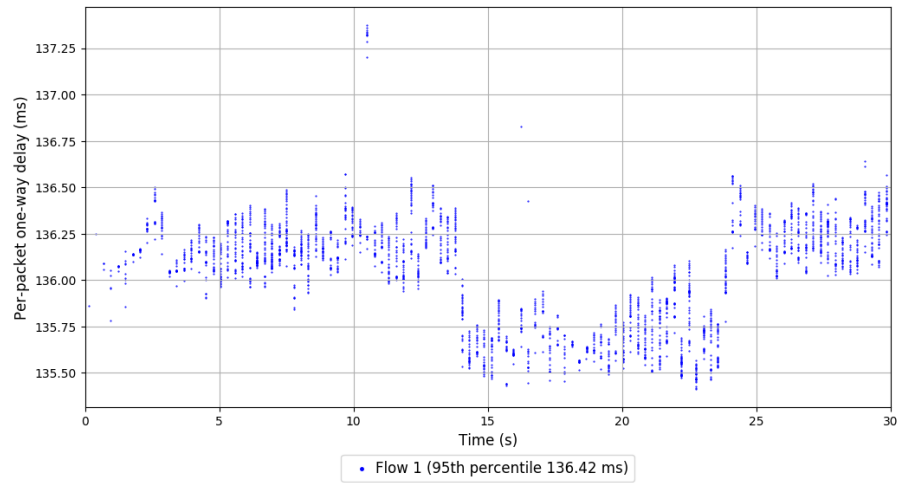
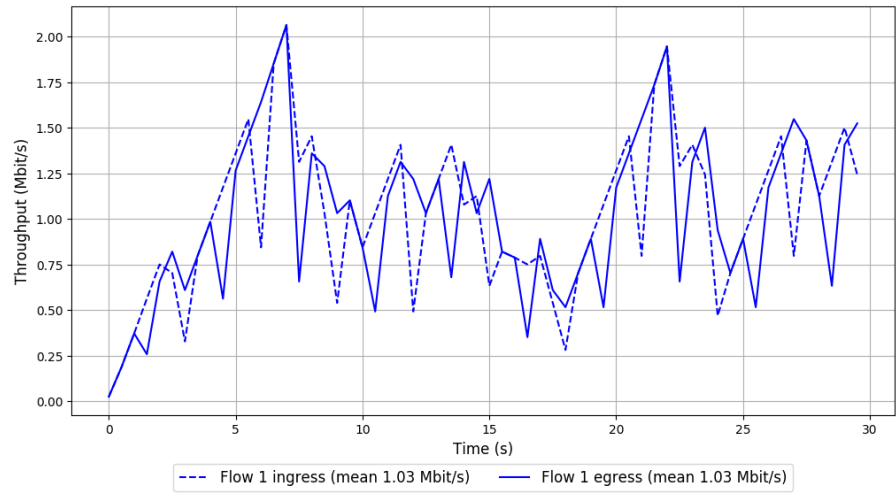
-- Flow 1:

Average throughput: 1.03 Mbit/s

95th percentile per-packet one-way delay: 136.418 ms

Loss rate: 0.80%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2017-12-11 18:26:11

End at: 2017-12-11 18:26:41

Below is generated by plot.py at 2017-12-11 21:15:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.77 Mbit/s

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

Loss rate: 1.13%

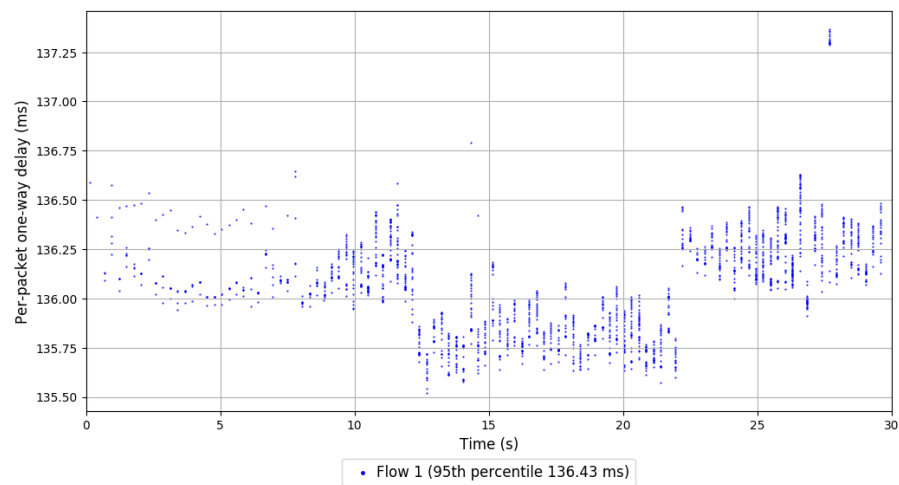
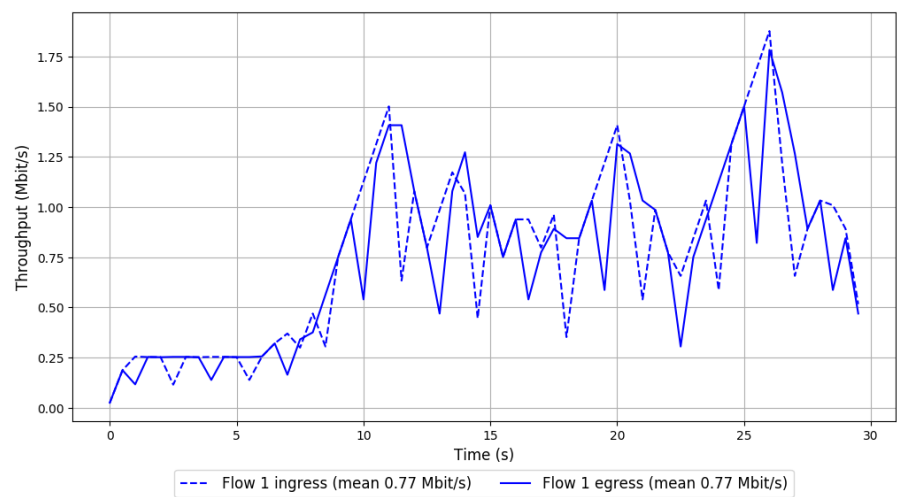
-- Flow 1:

Average throughput: 0.77 Mbit/s

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

Loss rate: 1.13%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2017-12-11 18:37:44

End at: 2017-12-11 18:38:14

Below is generated by plot.py at 2017-12-11 21:15:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.65 Mbit/s

95th percentile per-packet one-way delay: 136.696 ms

Loss rate: 1.12%

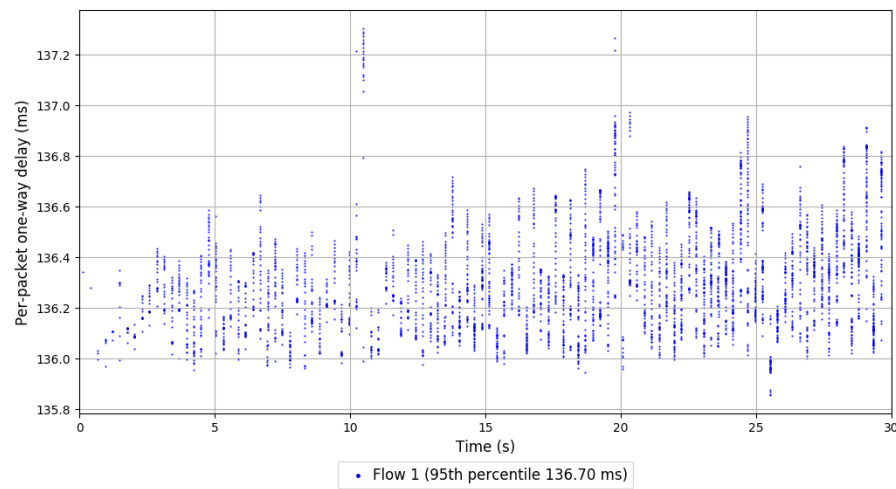
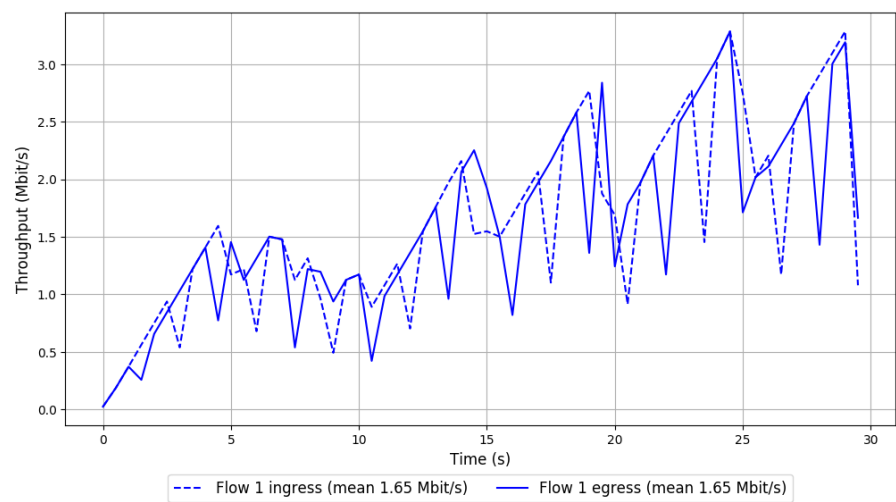
-- Flow 1:

Average throughput: 1.65 Mbit/s

95th percentile per-packet one-way delay: 136.696 ms

Loss rate: 1.12%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2017-12-11 18:49:14

End at: 2017-12-11 18:49:44

Below is generated by plot.py at 2017-12-11 21:15:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.94 Mbit/s

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

Loss rate: 2.08%

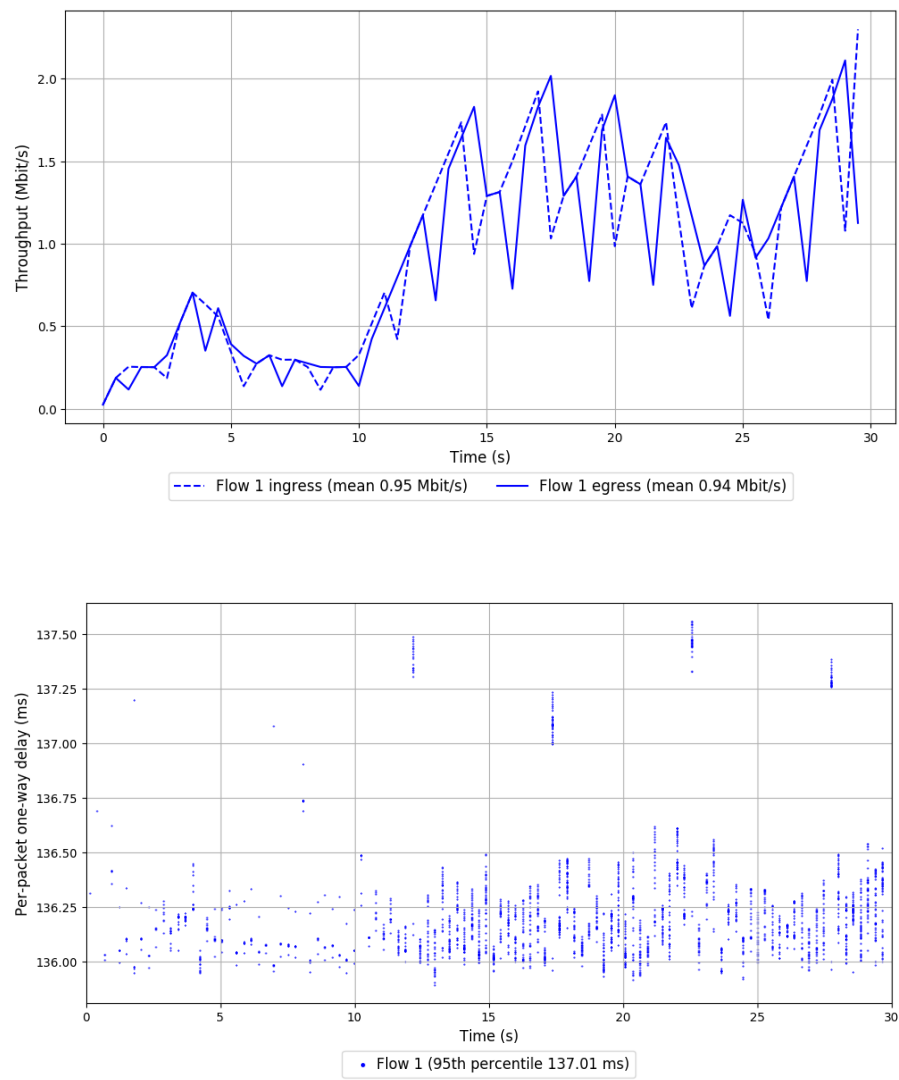
-- Flow 1:

Average throughput: 0.94 Mbit/s

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

Loss rate: 2.08%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2017-12-11 19:00:43

End at: 2017-12-11 19:01:13

Below is generated by plot.py at 2017-12-11 21:15:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.87 Mbit/s

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

Loss rate: 1.31%

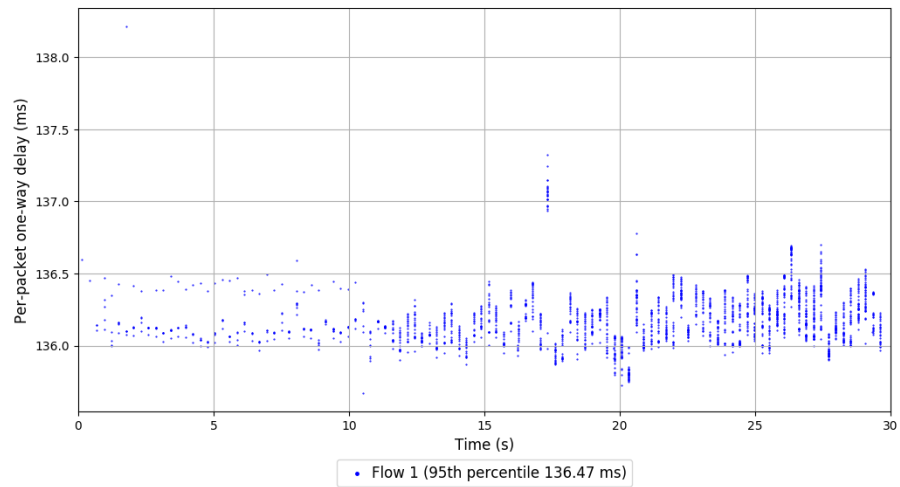
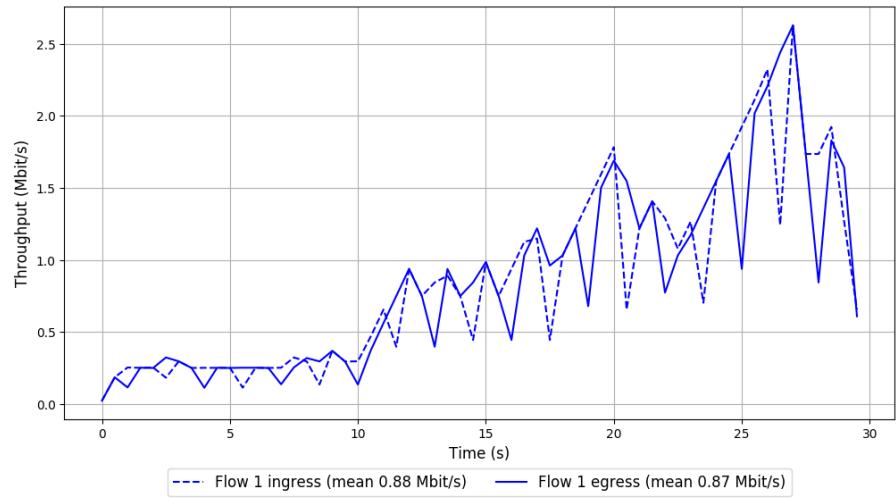
-- Flow 1:

Average throughput: 0.87 Mbit/s

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

Loss rate: 1.31%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2017-12-11 19:12:04

End at: 2017-12-11 19:12:34

Below is generated by plot.py at 2017-12-11 21:15:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.66 Mbit/s

95th percentile per-packet one-way delay: 136.742 ms

Loss rate: 1.60%

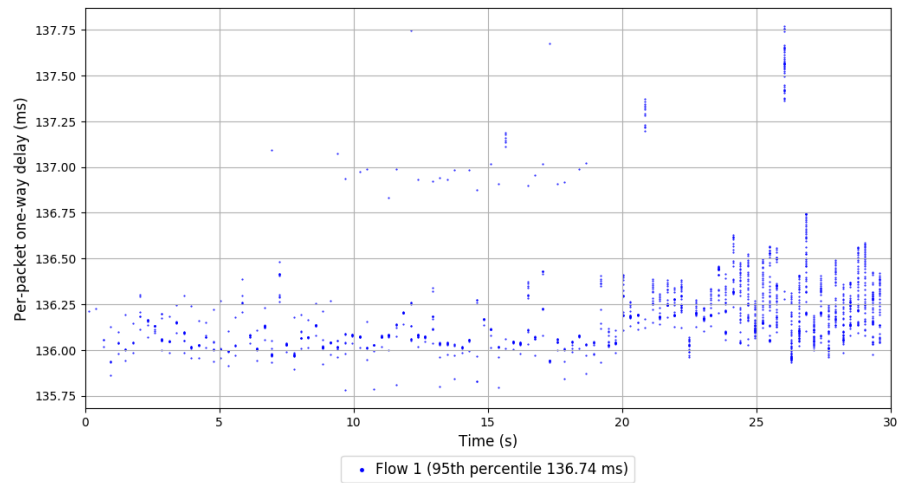
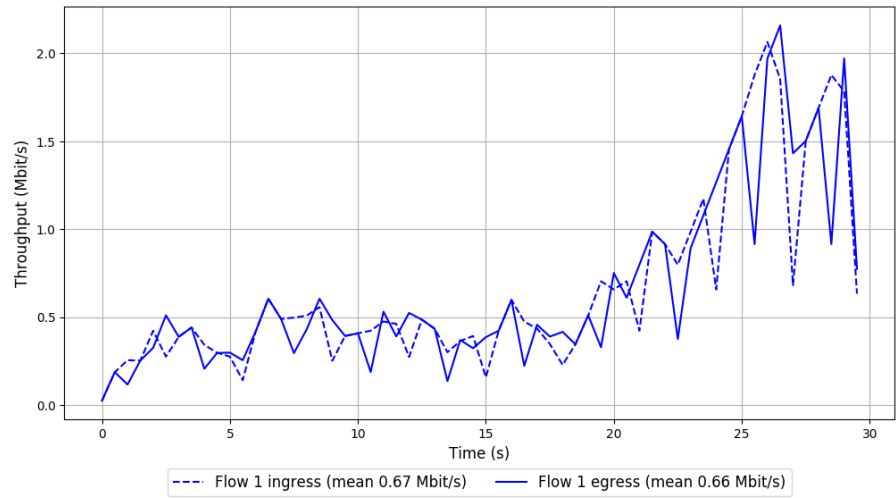
-- Flow 1:

Average throughput: 0.66 Mbit/s

95th percentile per-packet one-way delay: 136.742 ms

Loss rate: 1.60%

Run 10: Report of LEDBAT — Data Link

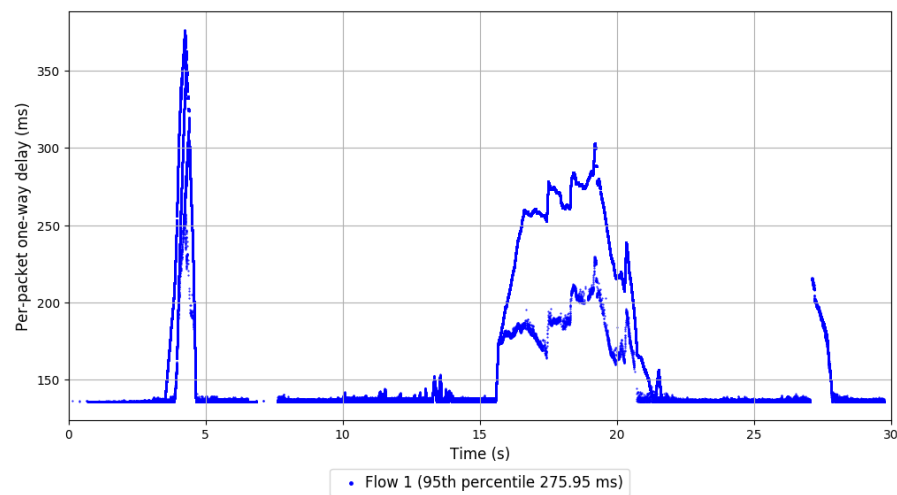
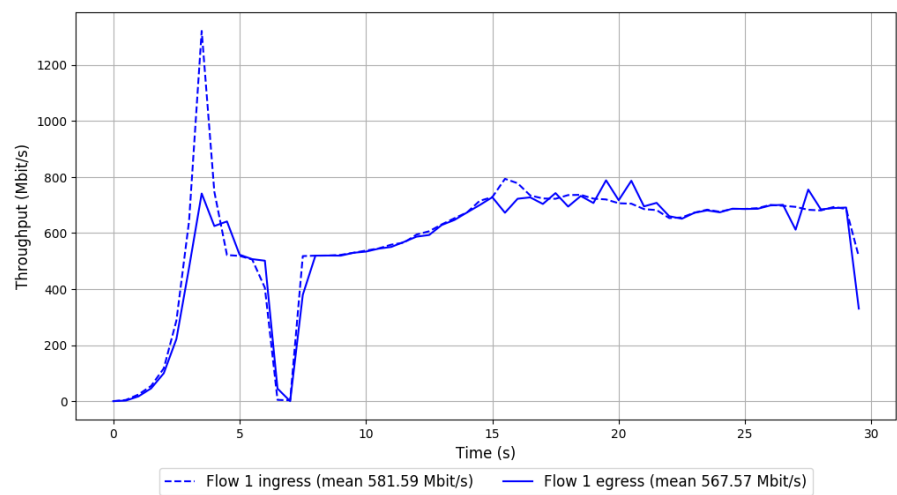


```
Run 1: Statistics of PCC

Start at: 2017-12-11 17:20:03
End at: 2017-12-11 17:20:33

# Below is generated by plot.py at 2017-12-11 21:24:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 567.57 Mbit/s
95th percentile per-packet one-way delay: 275.950 ms
Loss rate: 3.30%
-- Flow 1:
Average throughput: 567.57 Mbit/s
95th percentile per-packet one-way delay: 275.950 ms
Loss rate: 3.30%
```

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2017-12-11 17:31:47

End at: 2017-12-11 17:32:17

Below is generated by plot.py at 2017-12-11 21:24:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 525.15 Mbit/s

95th percentile per-packet one-way delay: 160.181 ms

Loss rate: 2.71%

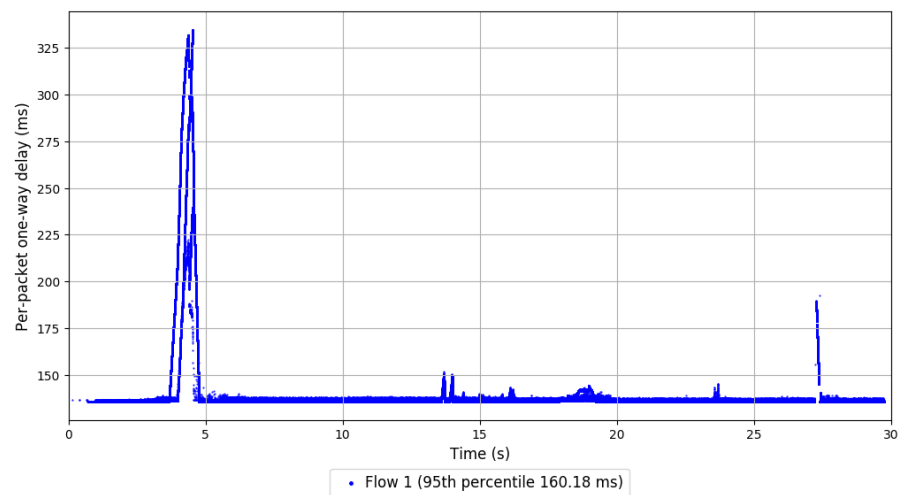
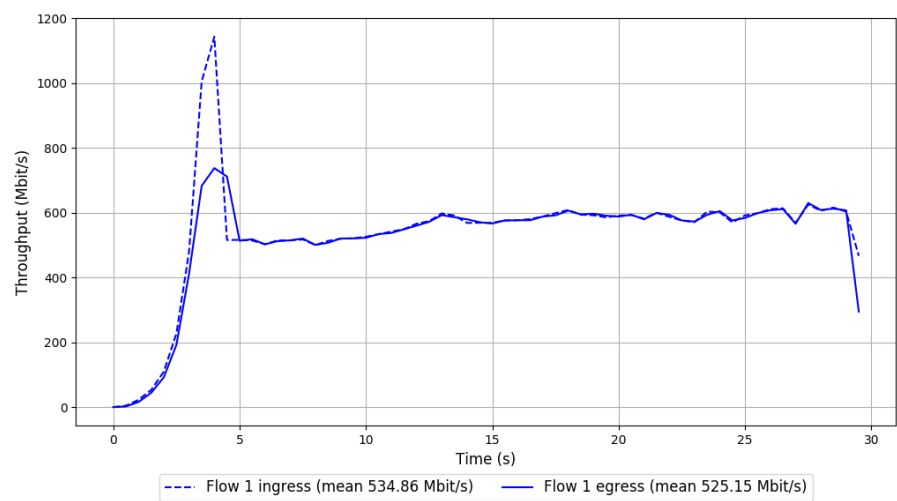
-- Flow 1:

Average throughput: 525.15 Mbit/s

95th percentile per-packet one-way delay: 160.181 ms

Loss rate: 2.71%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2017-12-11 17:43:16

End at: 2017-12-11 17:43:46

Below is generated by plot.py at 2017-12-11 21:24:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 562.16 Mbit/s

95th percentile per-packet one-way delay: 274.087 ms

Loss rate: 5.96%

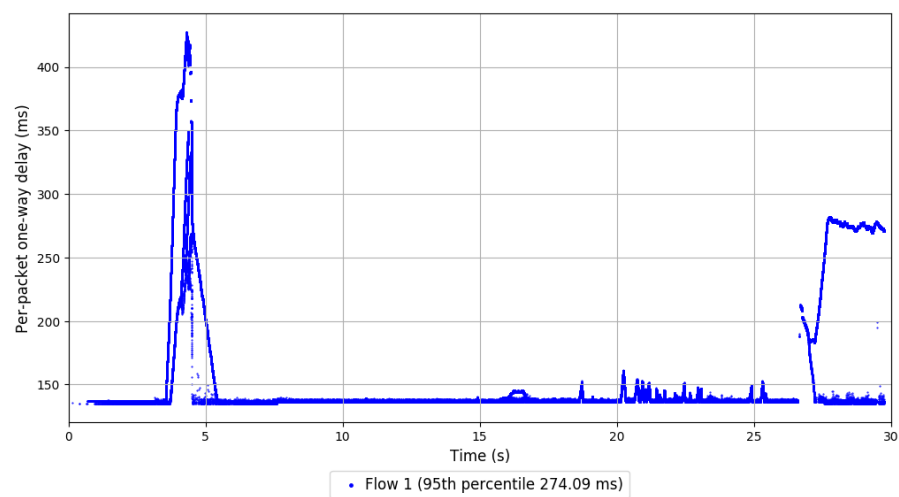
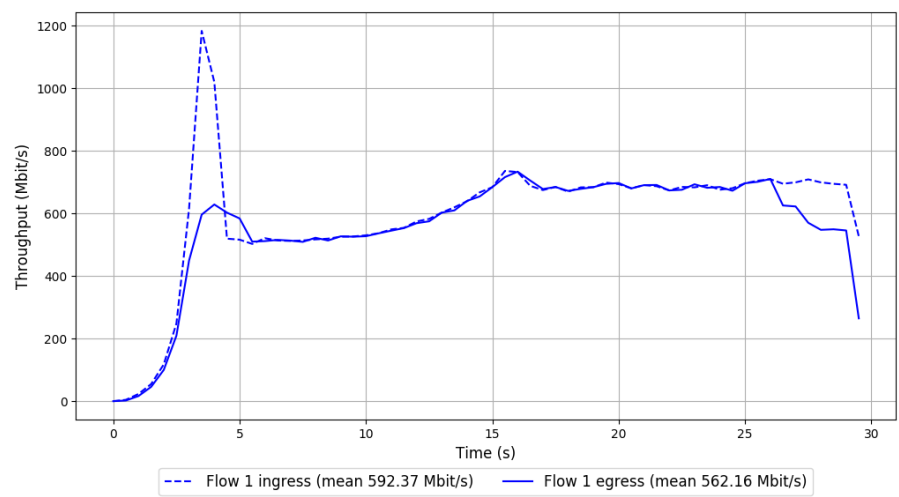
-- Flow 1:

Average throughput: 562.16 Mbit/s

95th percentile per-packet one-way delay: 274.087 ms

Loss rate: 5.96%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2017-12-11 17:54:51

End at: 2017-12-11 17:55:21

Below is generated by plot.py at 2017-12-11 21:24:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 499.36 Mbit/s

95th percentile per-packet one-way delay: 284.169 ms

Loss rate: 4.57%

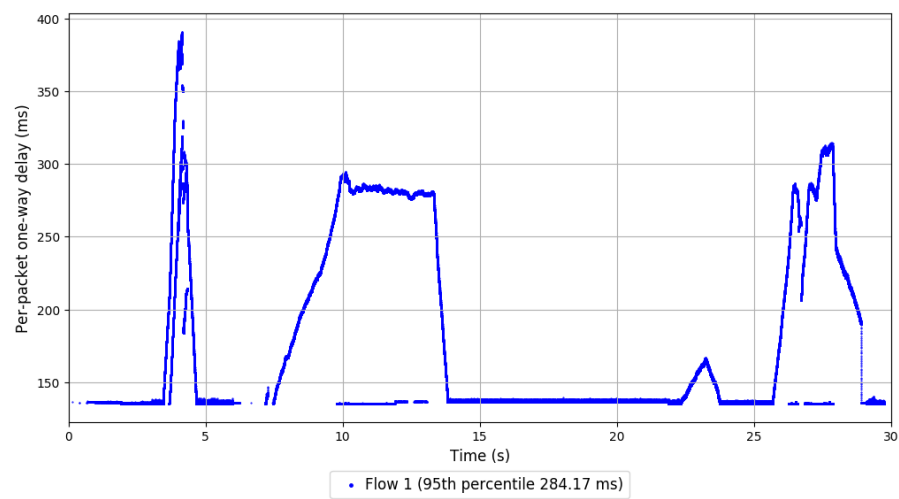
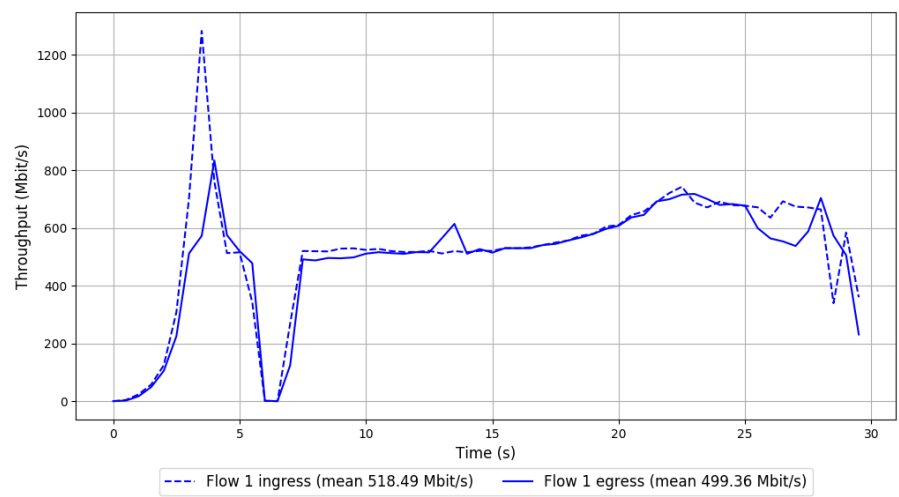
-- Flow 1:

Average throughput: 499.36 Mbit/s

95th percentile per-packet one-way delay: 284.169 ms

Loss rate: 4.57%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2017-12-11 18:06:14

End at: 2017-12-11 18:06:44

Below is generated by plot.py at 2017-12-11 21:24:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 517.55 Mbit/s

95th percentile per-packet one-way delay: 269.704 ms

Loss rate: 5.89%

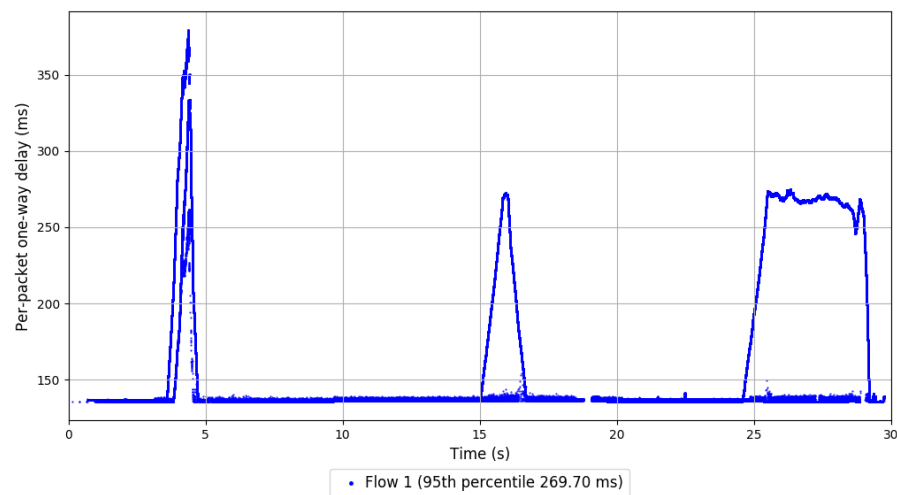
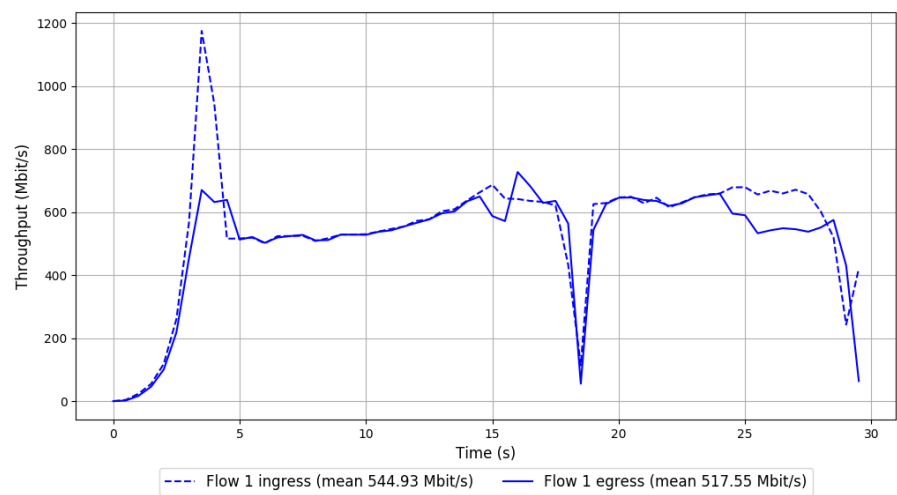
-- Flow 1:

Average throughput: 517.55 Mbit/s

95th percentile per-packet one-way delay: 269.704 ms

Loss rate: 5.89%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2017-12-11 18:17:40

End at: 2017-12-11 18:18:10

Below is generated by plot.py at 2017-12-11 21:25:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 582.07 Mbit/s

95th percentile per-packet one-way delay: 240.989 ms

Loss rate: 3.02%

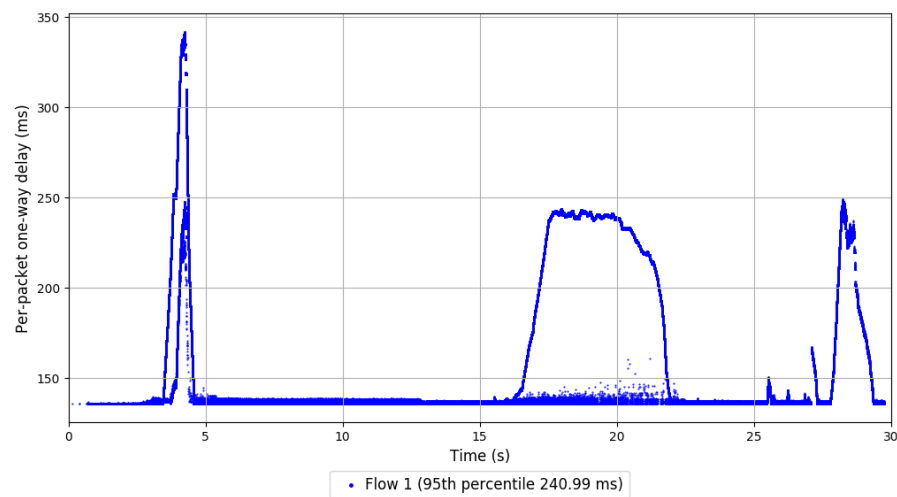
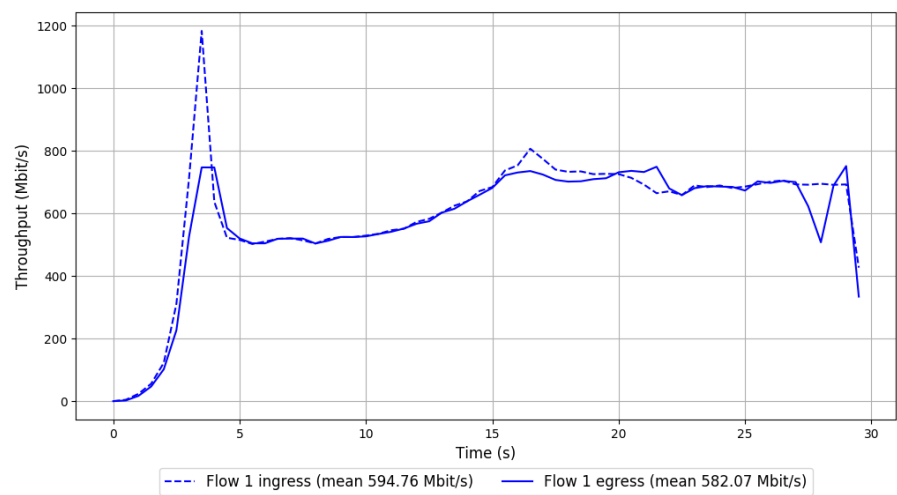
-- Flow 1:

Average throughput: 582.07 Mbit/s

95th percentile per-packet one-way delay: 240.989 ms

Loss rate: 3.02%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2017-12-11 18:29:23

End at: 2017-12-11 18:29:53

Below is generated by plot.py at 2017-12-11 21:25:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 593.49 Mbit/s

95th percentile per-packet one-way delay: 240.157 ms

Loss rate: 2.94%

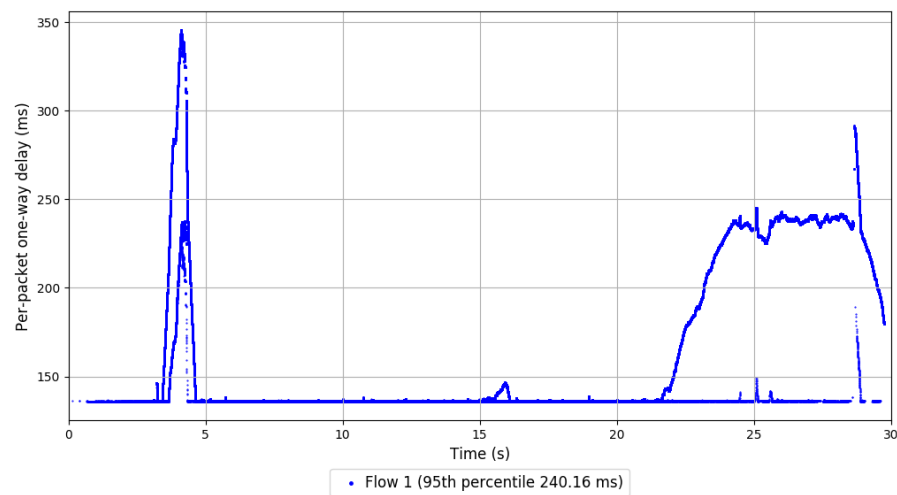
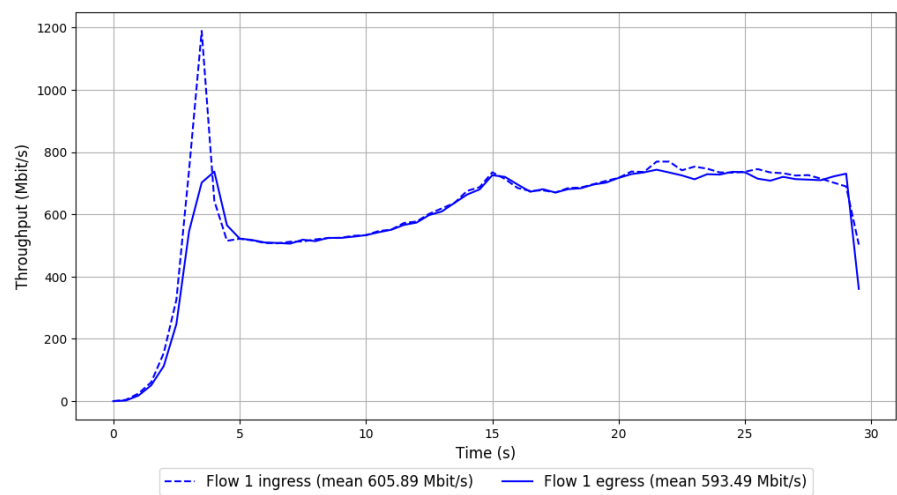
-- Flow 1:

Average throughput: 593.49 Mbit/s

95th percentile per-packet one-way delay: 240.157 ms

Loss rate: 2.94%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2017-12-11 18:40:47

End at: 2017-12-11 18:41:17

Below is generated by plot.py at 2017-12-11 21:25:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 606.49 Mbit/s

95th percentile per-packet one-way delay: 237.642 ms

Loss rate: 2.86%

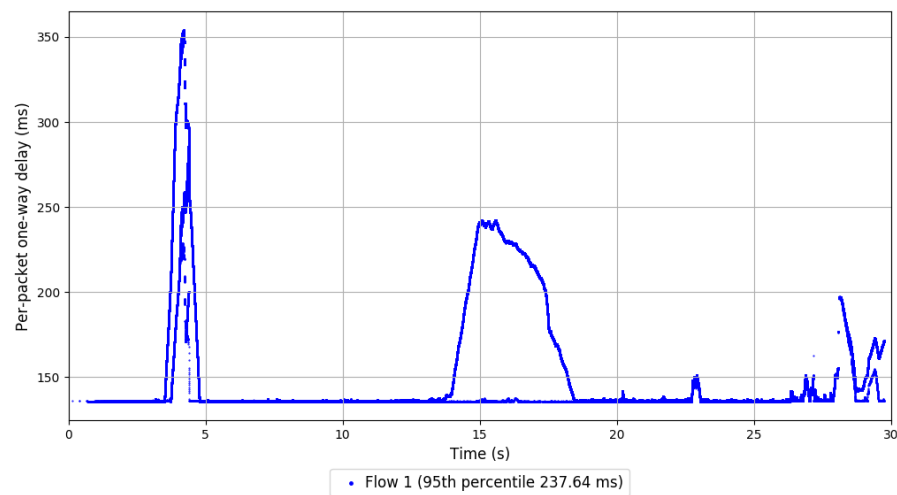
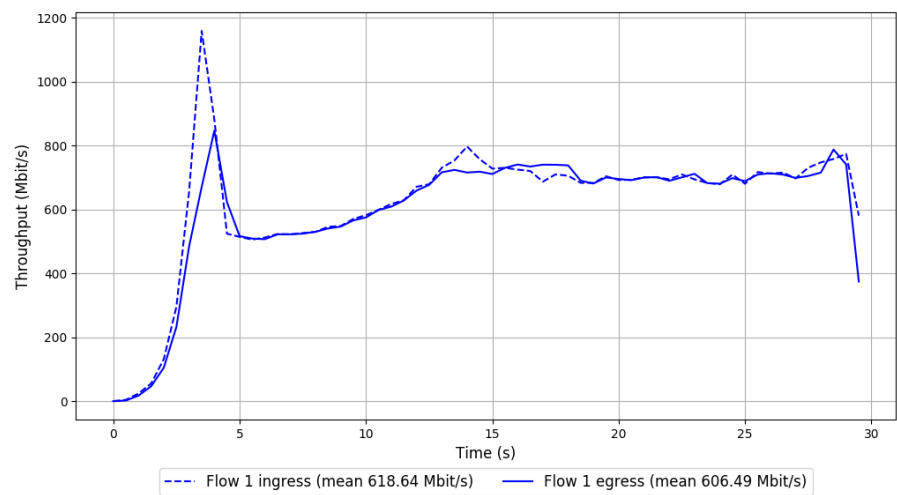
-- Flow 1:

Average throughput: 606.49 Mbit/s

95th percentile per-packet one-way delay: 237.642 ms

Loss rate: 2.86%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2017-12-11 18:52:22

End at: 2017-12-11 18:52:52

Below is generated by plot.py at 2017-12-11 21:32:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 498.09 Mbit/s

95th percentile per-packet one-way delay: 264.218 ms

Loss rate: 3.07%

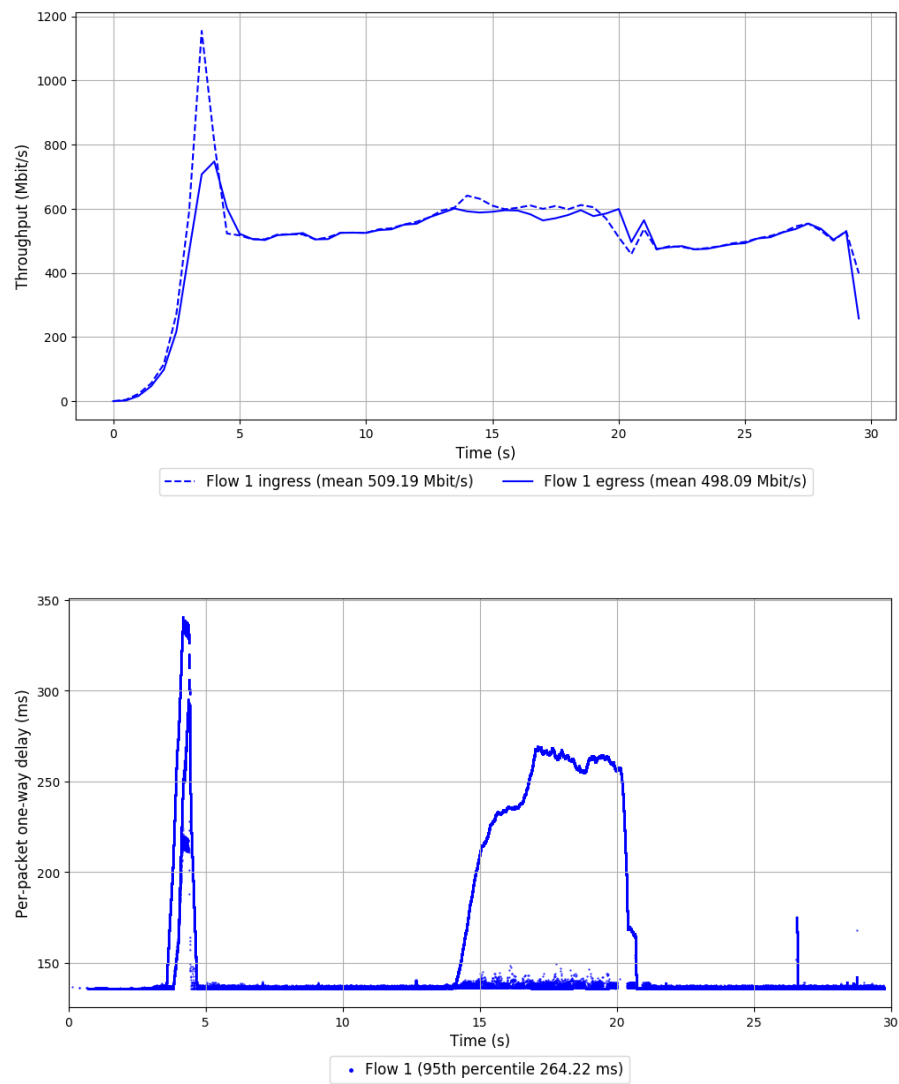
-- Flow 1:

Average throughput: 498.09 Mbit/s

95th percentile per-packet one-way delay: 264.218 ms

Loss rate: 3.07%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2017-12-11 19:03:46

End at: 2017-12-11 19:04:16

Below is generated by plot.py at 2017-12-11 21:34:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 604.27 Mbit/s

95th percentile per-packet one-way delay: 242.697 ms

Loss rate: 3.85%

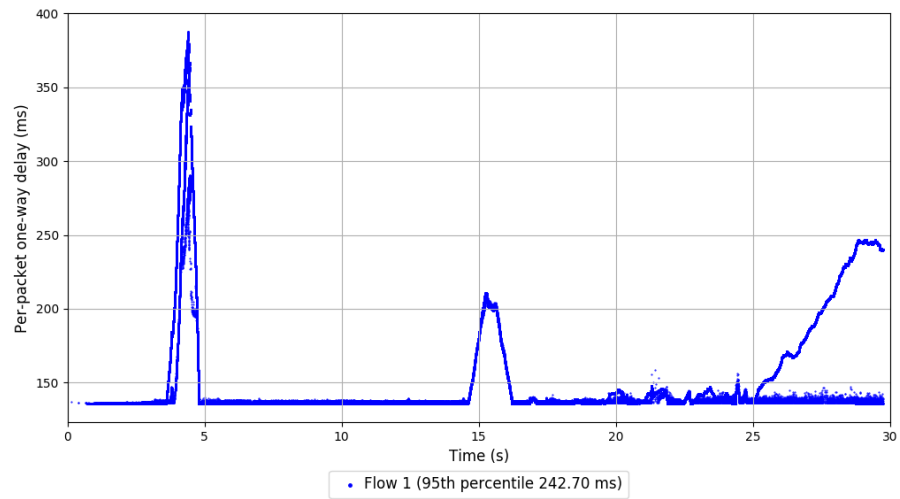
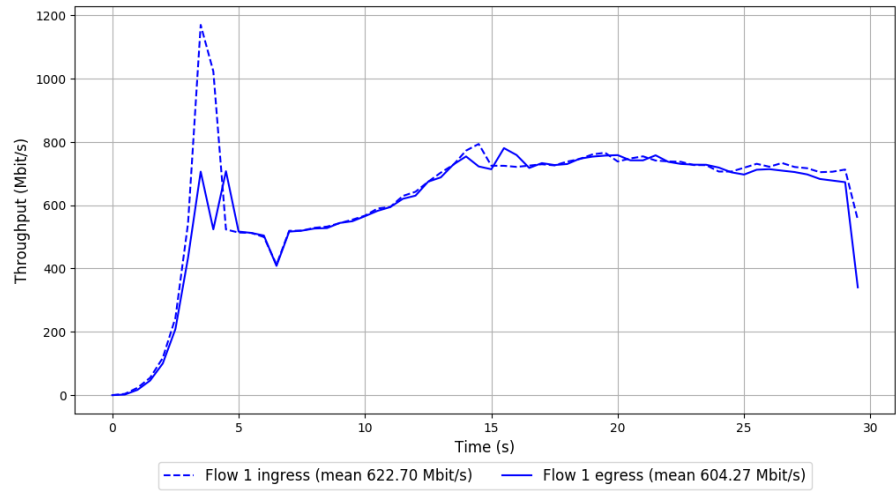
-- Flow 1:

Average throughput: 604.27 Mbit/s

95th percentile per-packet one-way delay: 242.697 ms

Loss rate: 3.85%

Run 10: Report of PCC — Data Link

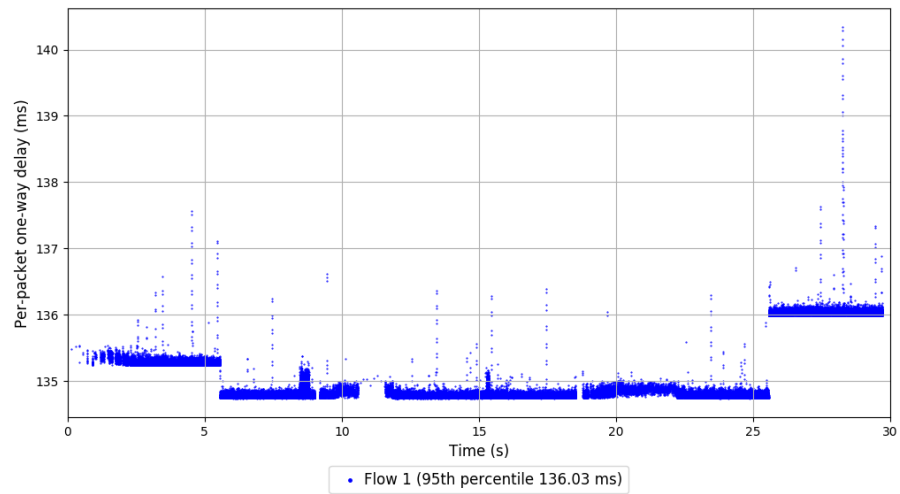
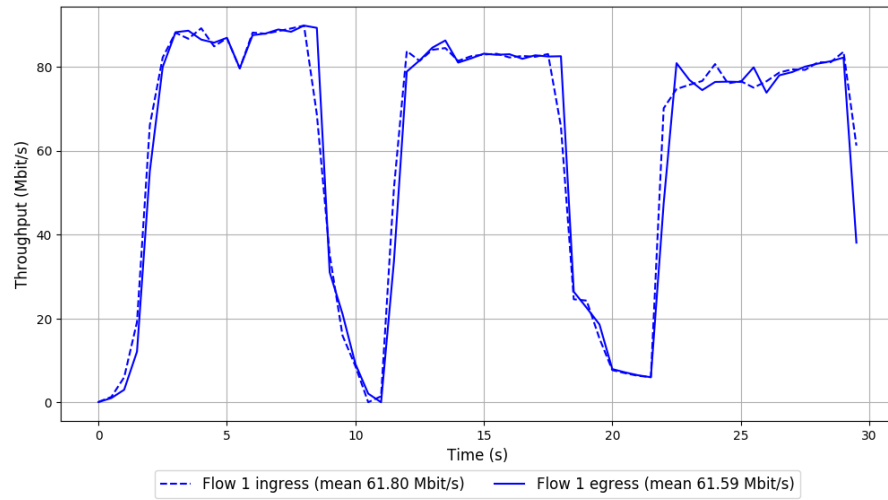


```
Run 1: Statistics of QUIC Cubic

Start at: 2017-12-11 17:22:58
End at: 2017-12-11 17:23:28

# Below is generated by plot.py at 2017-12-11 21:34:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 61.59 Mbit/s
95th percentile per-packet one-way delay: 136.030 ms
Loss rate: 1.25%
-- Flow 1:
Average throughput: 61.59 Mbit/s
95th percentile per-packet one-way delay: 136.030 ms
Loss rate: 1.25%
```


Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2017-12-11 17:34:30

End at: 2017-12-11 17:35:00

Below is generated by plot.py at 2017-12-11 21:34:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 70.85 Mbit/s

95th percentile per-packet one-way delay: 136.143 ms

Loss rate: 1.09%

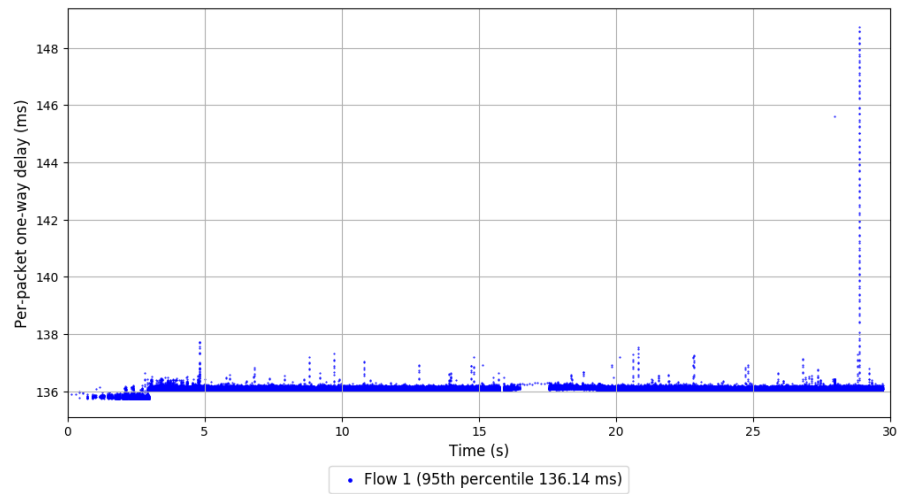
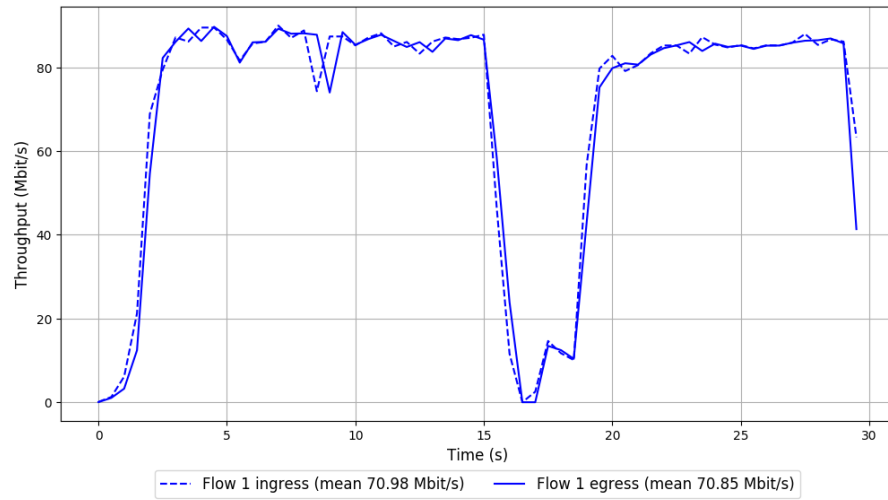
-- Flow 1:

Average throughput: 70.85 Mbit/s

95th percentile per-packet one-way delay: 136.143 ms

Loss rate: 1.09%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2017-12-11 17:46:02

End at: 2017-12-11 17:46:32

Below is generated by plot.py at 2017-12-11 21:34:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.61 Mbit/s

95th percentile per-packet one-way delay: 136.742 ms

Loss rate: 1.12%

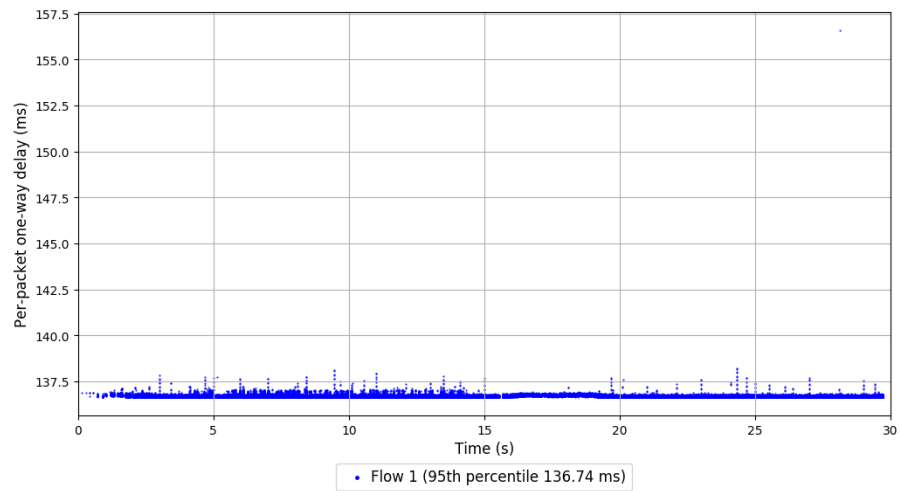
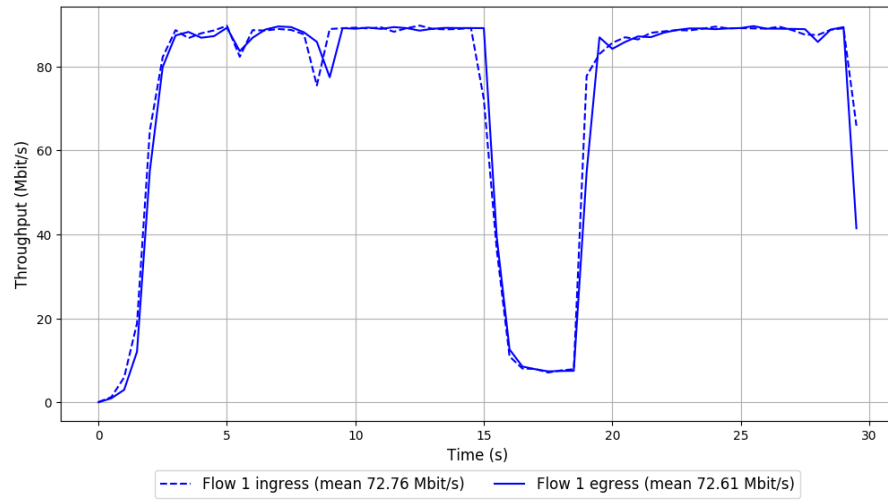
-- Flow 1:

Average throughput: 72.61 Mbit/s

95th percentile per-packet one-way delay: 136.742 ms

Loss rate: 1.12%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2017-12-11 17:57:33

End at: 2017-12-11 17:58:03

Below is generated by plot.py at 2017-12-11 21:34:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.33 Mbit/s

95th percentile per-packet one-way delay: 136.144 ms

Loss rate: 1.08%

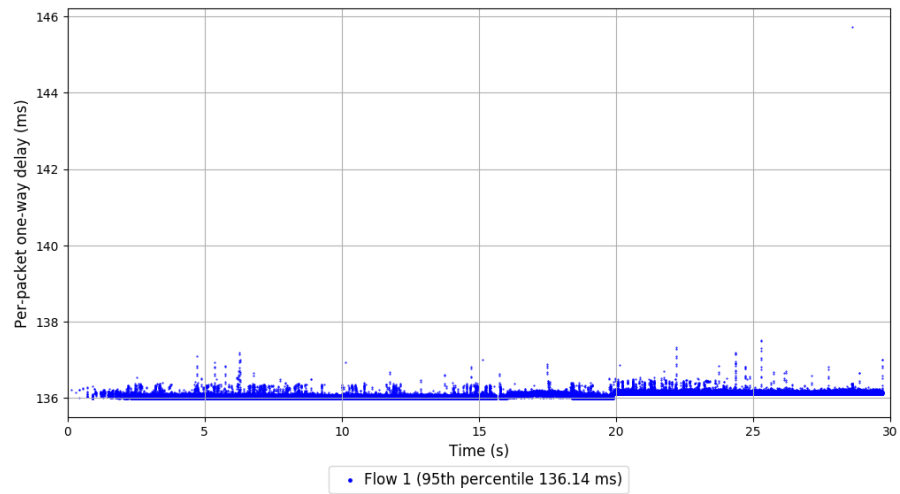
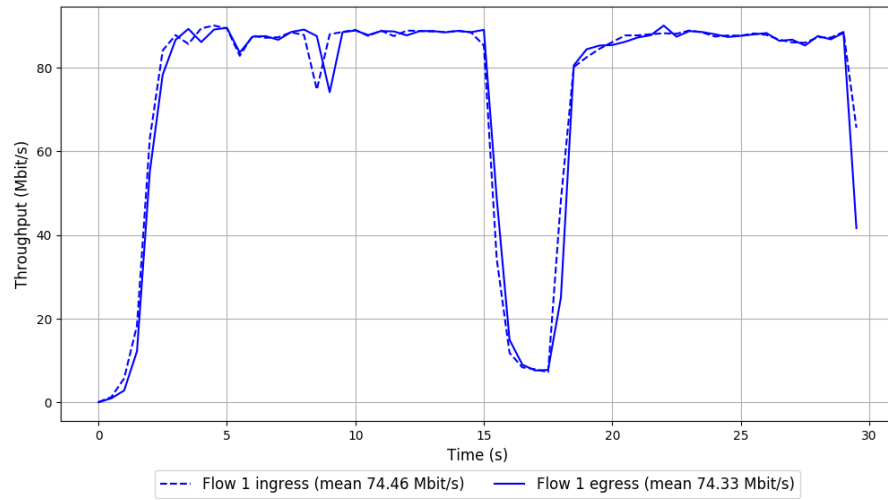
-- Flow 1:

Average throughput: 74.33 Mbit/s

95th percentile per-packet one-way delay: 136.144 ms

Loss rate: 1.08%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2017-12-11 18:08:50

End at: 2017-12-11 18:09:20

Below is generated by plot.py at 2017-12-11 21:34:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.88 Mbit/s

95th percentile per-packet one-way delay: 136.337 ms

Loss rate: 1.09%

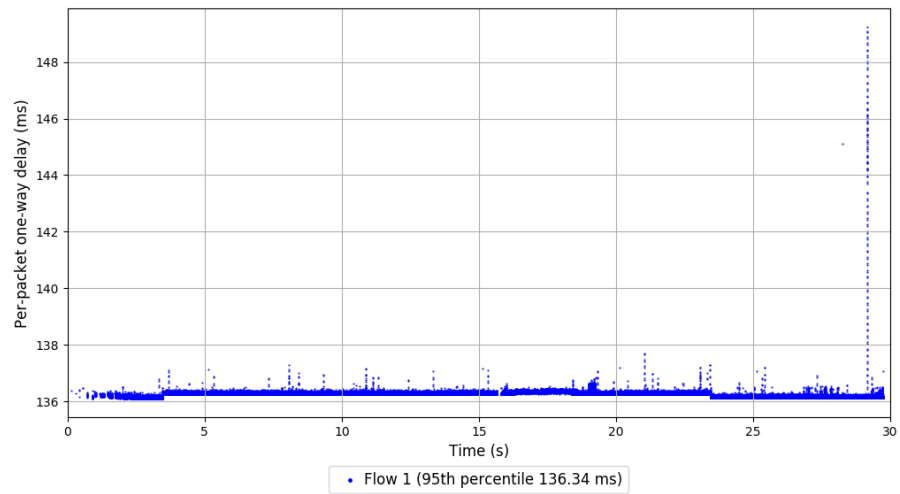
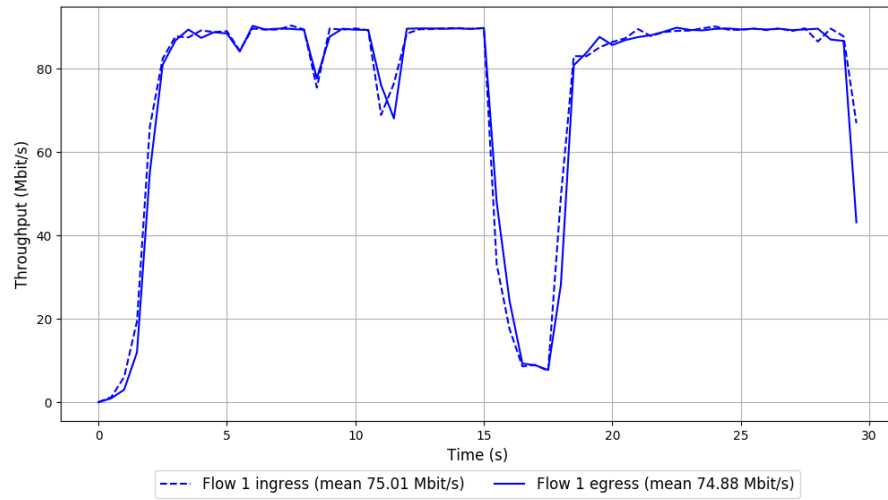
-- Flow 1:

Average throughput: 74.88 Mbit/s

95th percentile per-packet one-way delay: 136.337 ms

Loss rate: 1.09%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2017-12-11 18:20:32

End at: 2017-12-11 18:21:02

Below is generated by plot.py at 2017-12-11 21:34:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 54.70 Mbit/s

95th percentile per-packet one-way delay: 135.323 ms

Loss rate: 1.36%

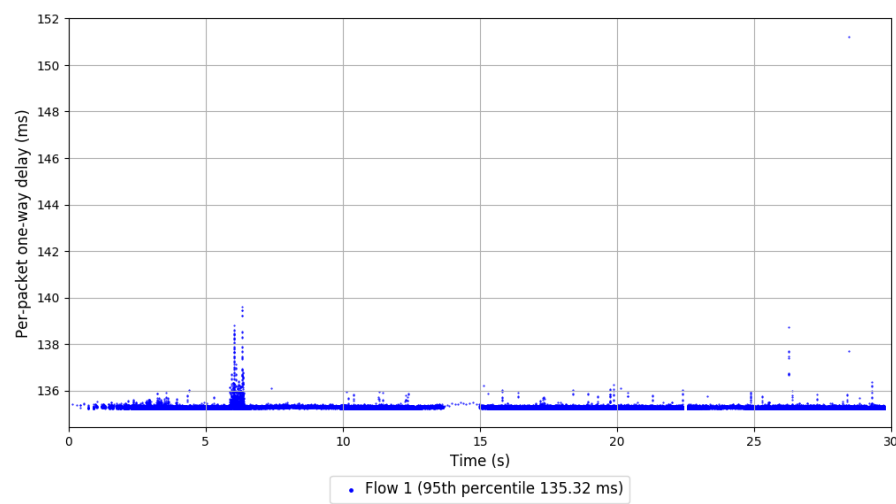
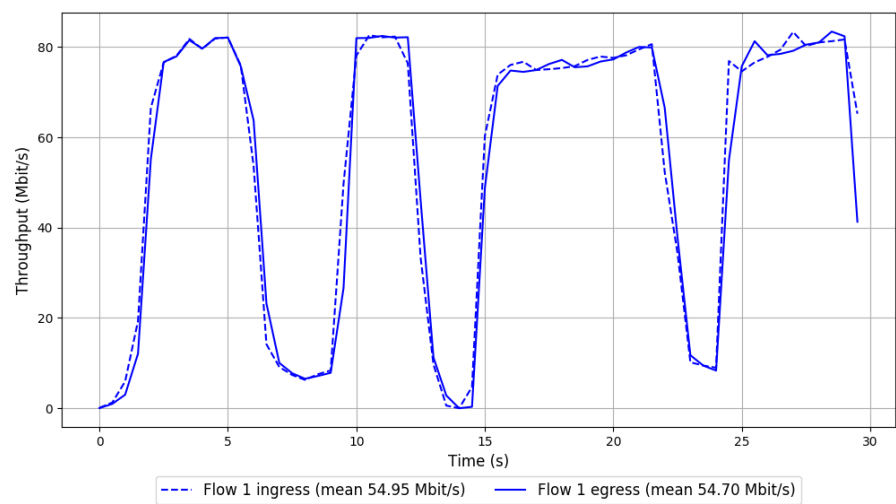
-- Flow 1:

Average throughput: 54.70 Mbit/s

95th percentile per-packet one-way delay: 135.323 ms

Loss rate: 1.36%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2017-12-11 18:32:14

End at: 2017-12-11 18:32:44

Below is generated by plot.py at 2017-12-11 21:34:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 65.32 Mbit/s

95th percentile per-packet one-way delay: 136.266 ms

Loss rate: 1.24%

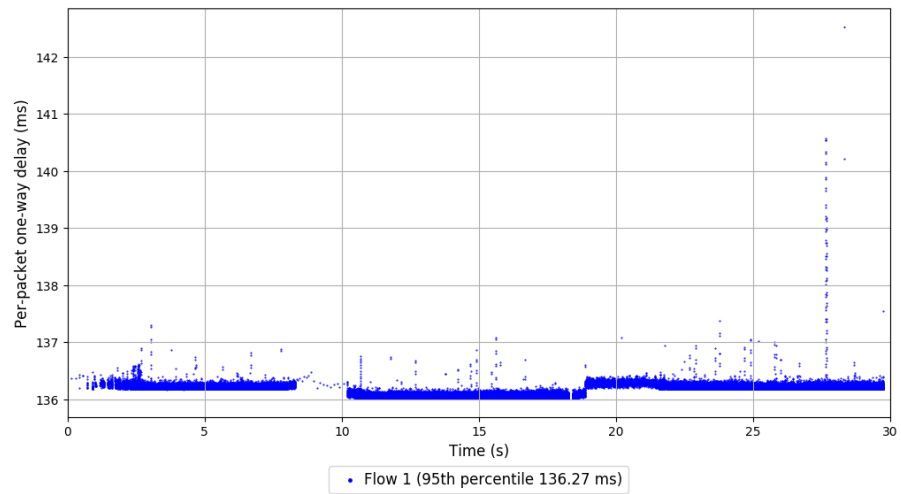
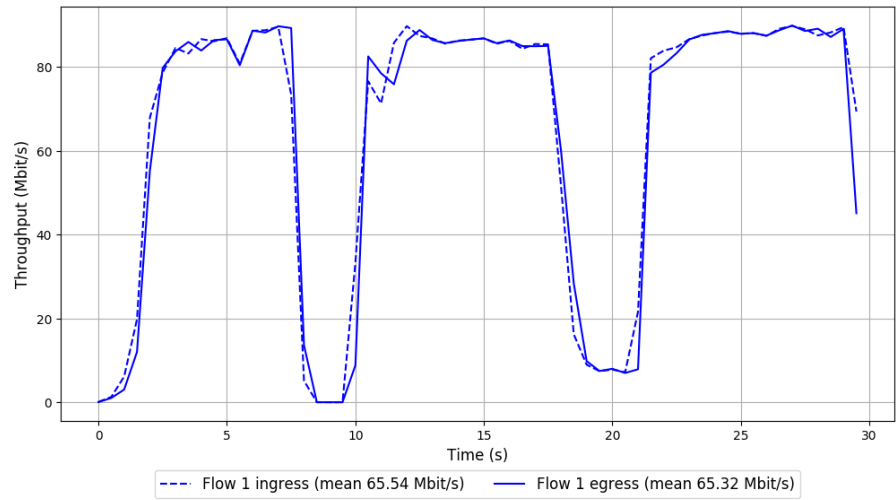
-- Flow 1:

Average throughput: 65.32 Mbit/s

95th percentile per-packet one-way delay: 136.266 ms

Loss rate: 1.24%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2017-12-11 18:43:32

End at: 2017-12-11 18:44:02

Below is generated by plot.py at 2017-12-11 21:34:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 58.24 Mbit/s

95th percentile per-packet one-way delay: 136.326 ms

Loss rate: 1.19%

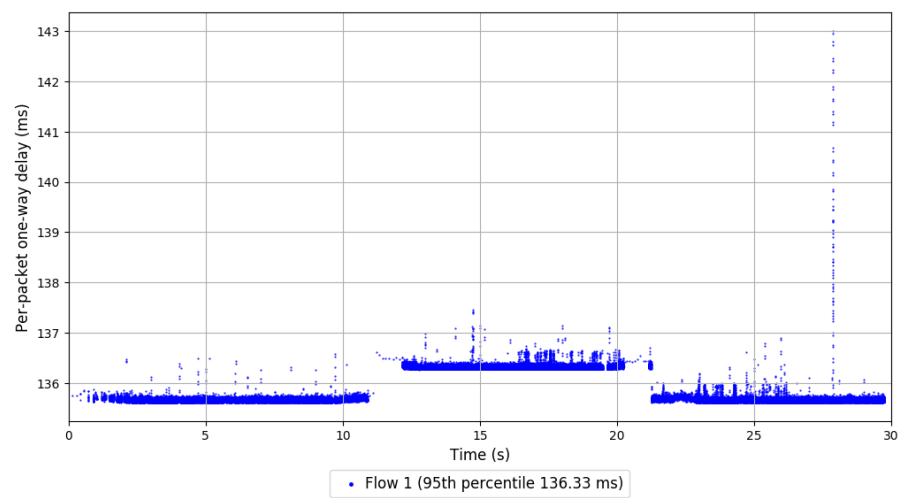
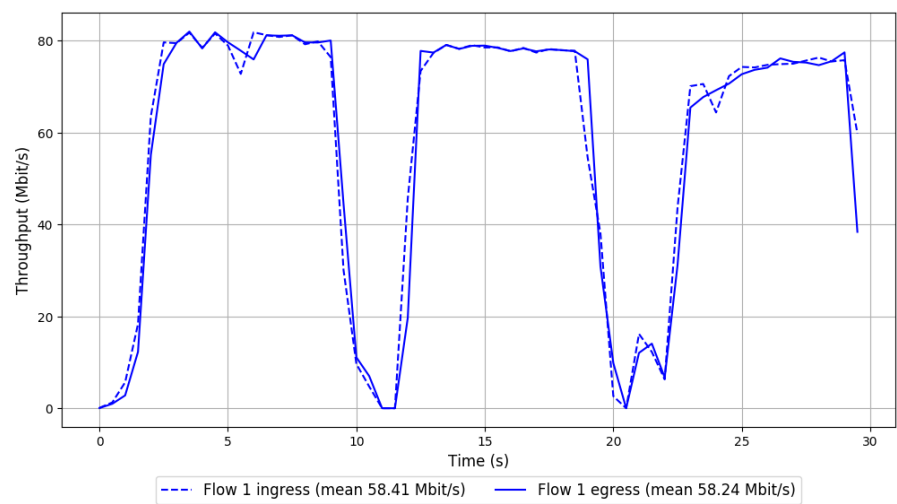
-- Flow 1:

Average throughput: 58.24 Mbit/s

95th percentile per-packet one-way delay: 136.326 ms

Loss rate: 1.19%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2017-12-11 18:55:01

End at: 2017-12-11 18:55:32

Below is generated by plot.py at 2017-12-11 21:34:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.05 Mbit/s

95th percentile per-packet one-way delay: 136.007 ms

Loss rate: 1.09%

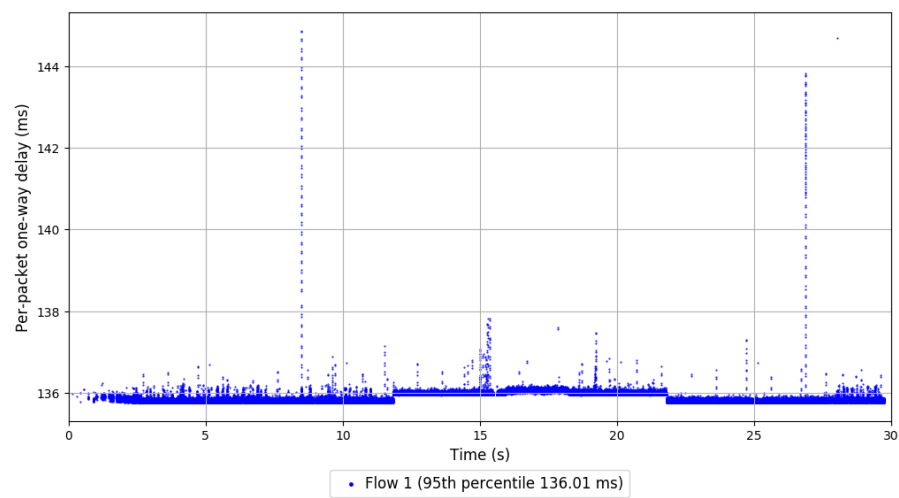
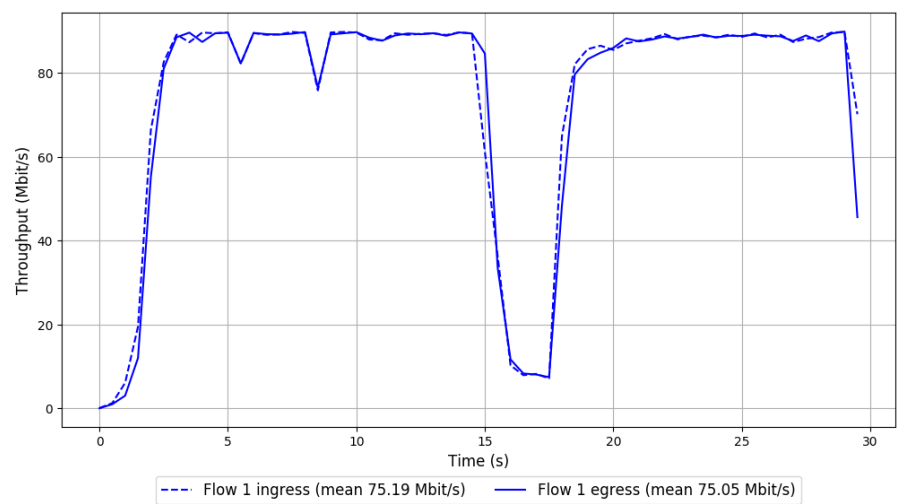
-- Flow 1:

Average throughput: 75.05 Mbit/s

95th percentile per-packet one-way delay: 136.007 ms

Loss rate: 1.09%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2017-12-11 19:06:33

End at: 2017-12-11 19:07:03

Below is generated by plot.py at 2017-12-11 21:34:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 60.54 Mbit/s

95th percentile per-packet one-way delay: 136.305 ms

Loss rate: 1.19%

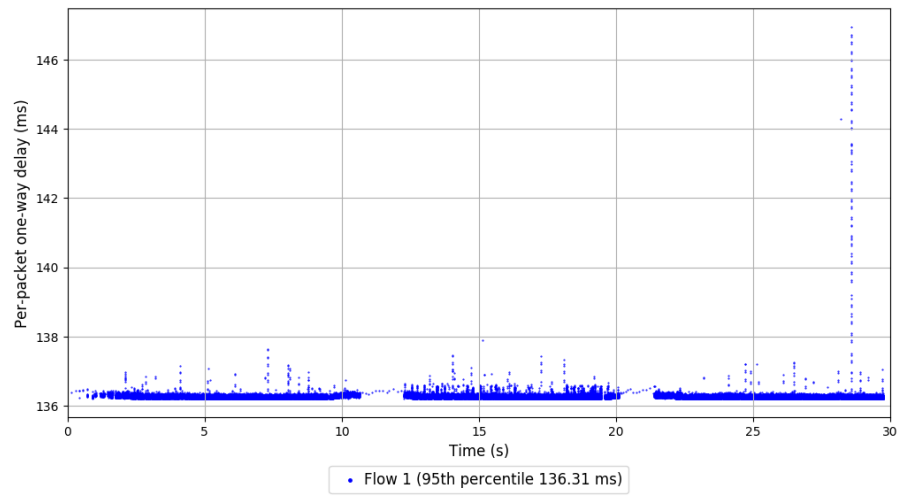
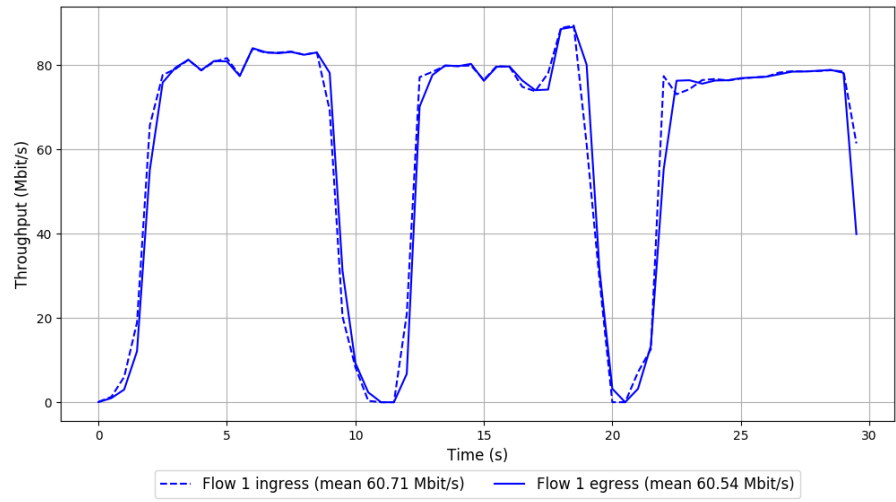
-- Flow 1:

Average throughput: 60.54 Mbit/s

95th percentile per-packet one-way delay: 136.305 ms

Loss rate: 1.19%

Run 10: Report of QUIC Cubic — Data Link

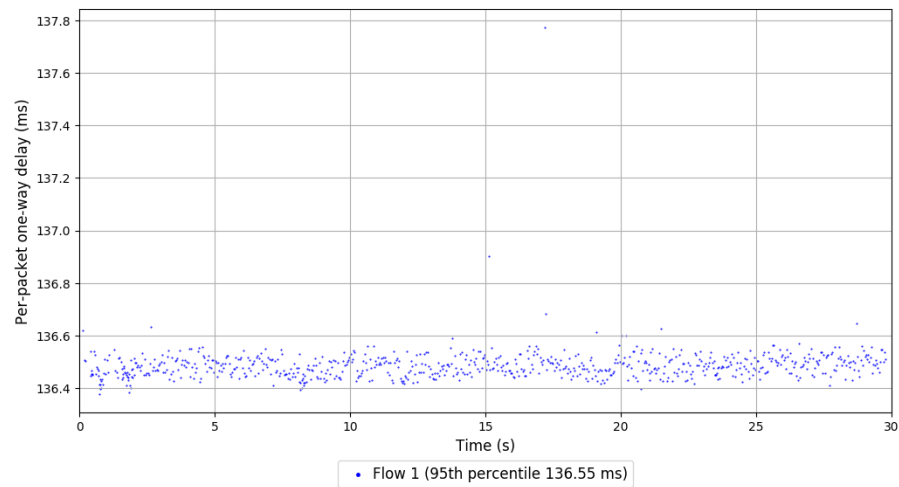
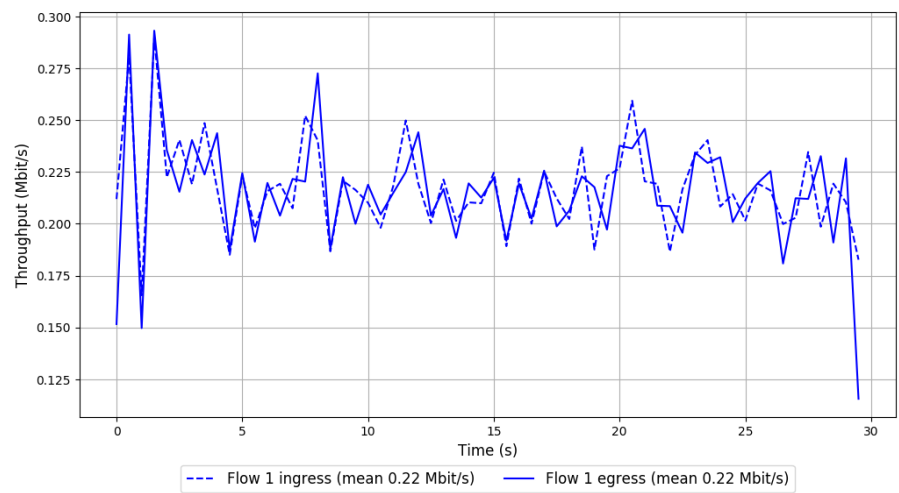


```
Run 1: Statistics of SCReAM

Start at: 2017-12-11 17:29:21
End at: 2017-12-11 17:29:51

# Below is generated by plot.py at 2017-12-11 21:34:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.546 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.546 ms
Loss rate: 0.89%
```

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SCReAM

Start at: 2017-12-11 17:40:52

End at: 2017-12-11 17:41:22

Below is generated by plot.py at 2017-12-11 21:34:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.511 ms

Loss rate: 0.89%

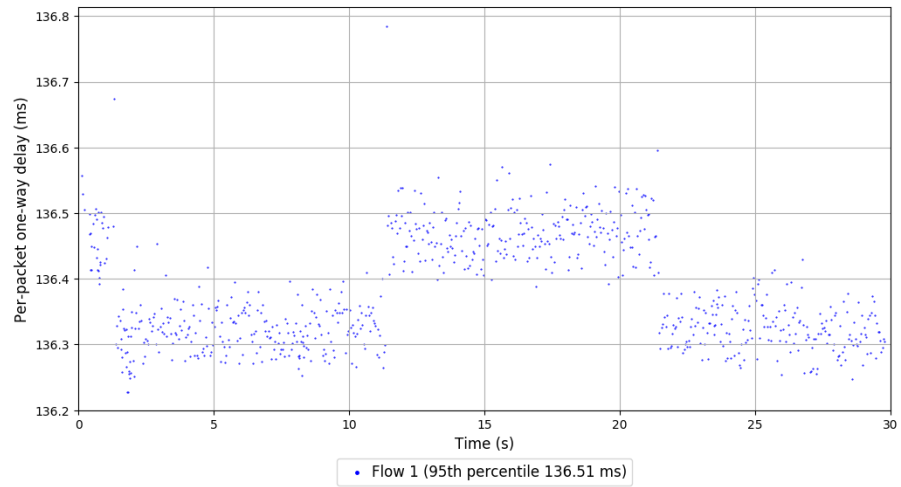
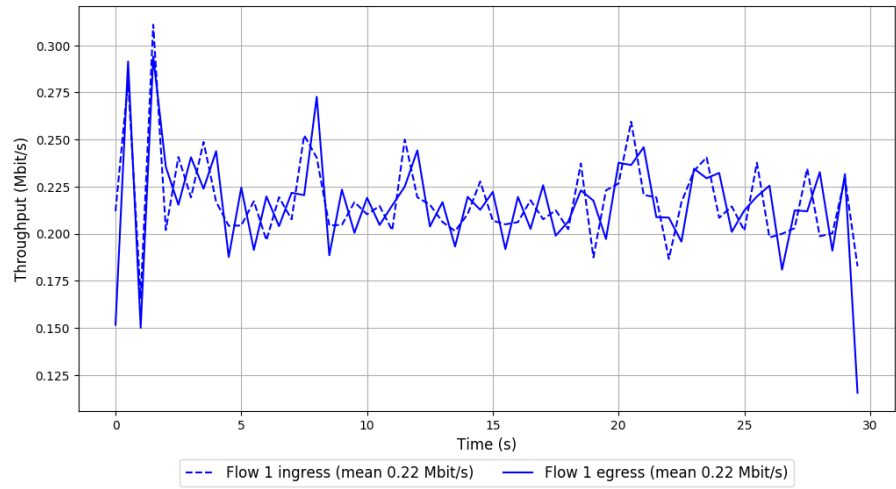
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.511 ms

Loss rate: 0.89%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2017-12-11 17:52:25

End at: 2017-12-11 17:52:55

Below is generated by plot.py at 2017-12-11 21:34:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.933 ms

Loss rate: 0.89%

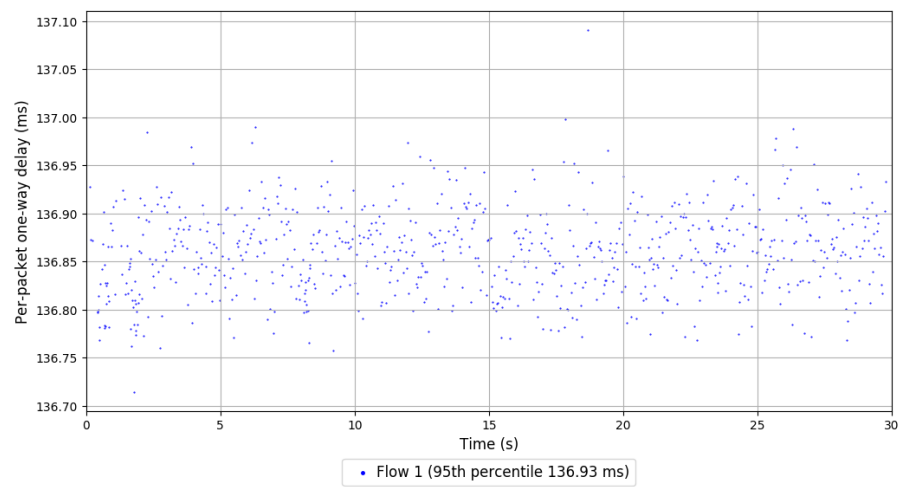
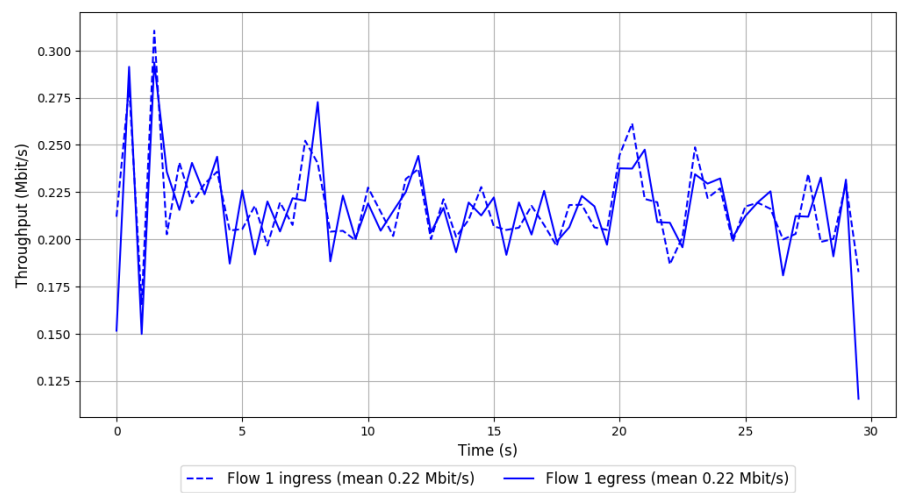
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.933 ms

Loss rate: 0.89%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2017-12-11 18:03:48

End at: 2017-12-11 18:04:18

Below is generated by plot.py at 2017-12-11 21:34:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.826 ms

Loss rate: 0.89%

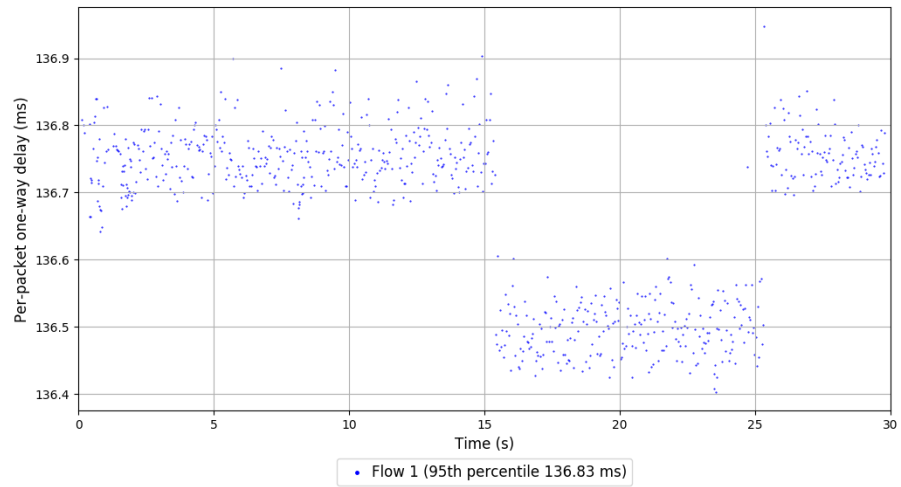
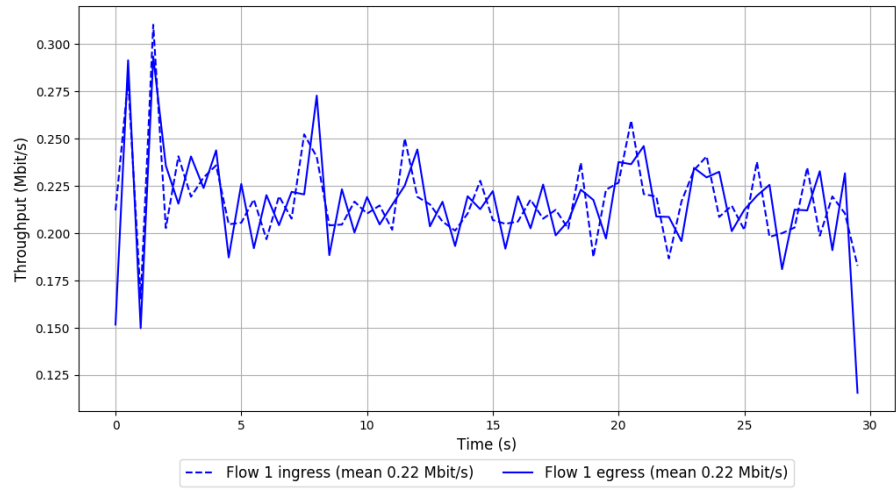
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.826 ms

Loss rate: 0.89%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2017-12-11 18:15:12

End at: 2017-12-11 18:15:42

Below is generated by plot.py at 2017-12-11 21:34:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 137.072 ms

Loss rate: 0.89%

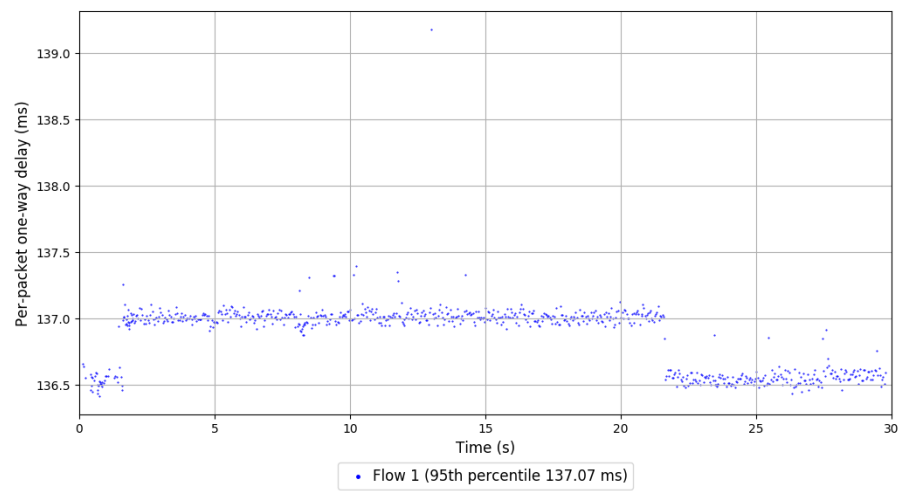
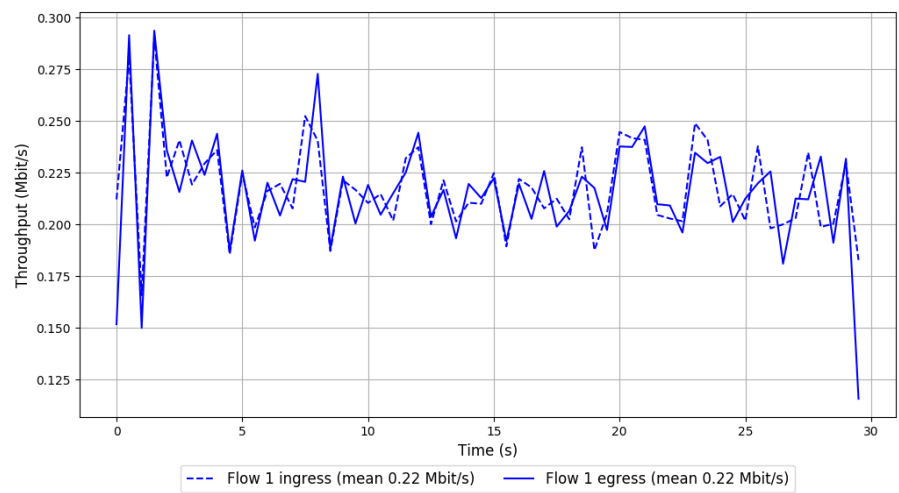
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 137.072 ms

Loss rate: 0.89%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2017-12-11 18:26:54

End at: 2017-12-11 18:27:24

Below is generated by plot.py at 2017-12-11 21:34:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.050 ms

Loss rate: 0.89%

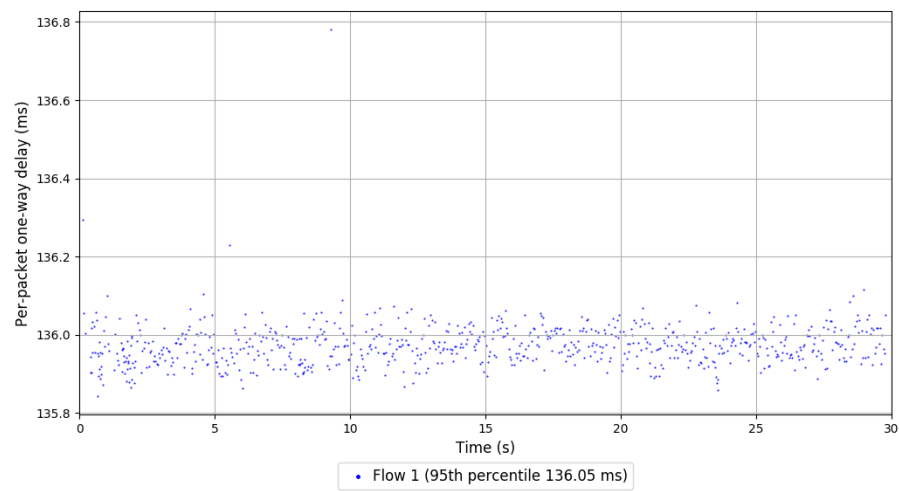
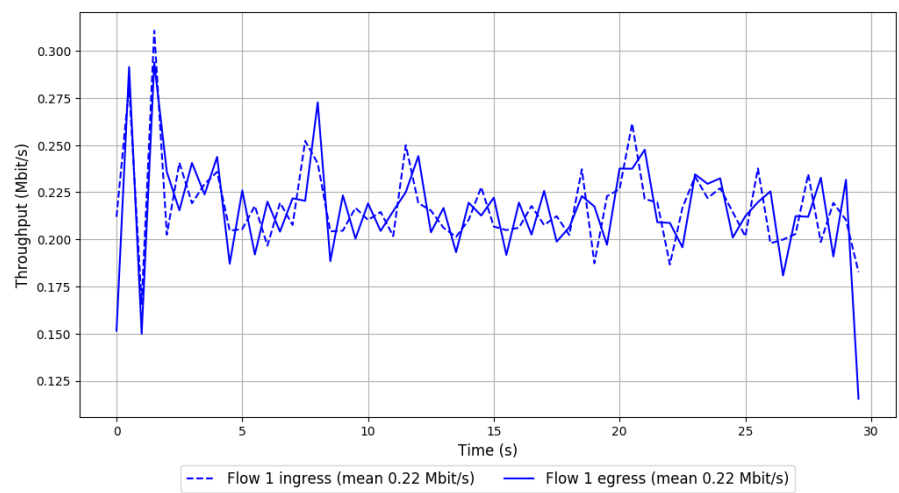
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.050 ms

Loss rate: 0.89%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2017-12-11 18:38:26

End at: 2017-12-11 18:38:56

Below is generated by plot.py at 2017-12-11 21:34:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 135.501 ms

Loss rate: 0.89%

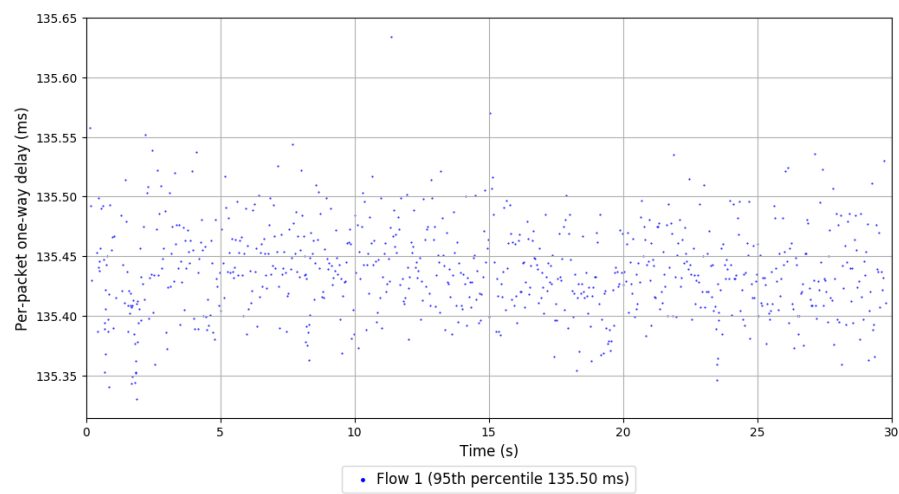
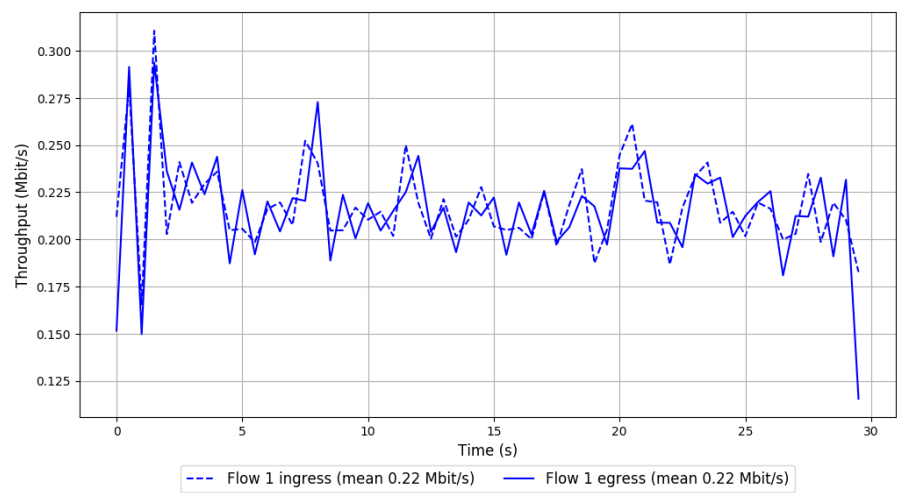
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 135.501 ms

Loss rate: 0.89%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2017-12-11 18:49:57

End at: 2017-12-11 18:50:27

Below is generated by plot.py at 2017-12-11 21:34:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.352 ms

Loss rate: 0.89%

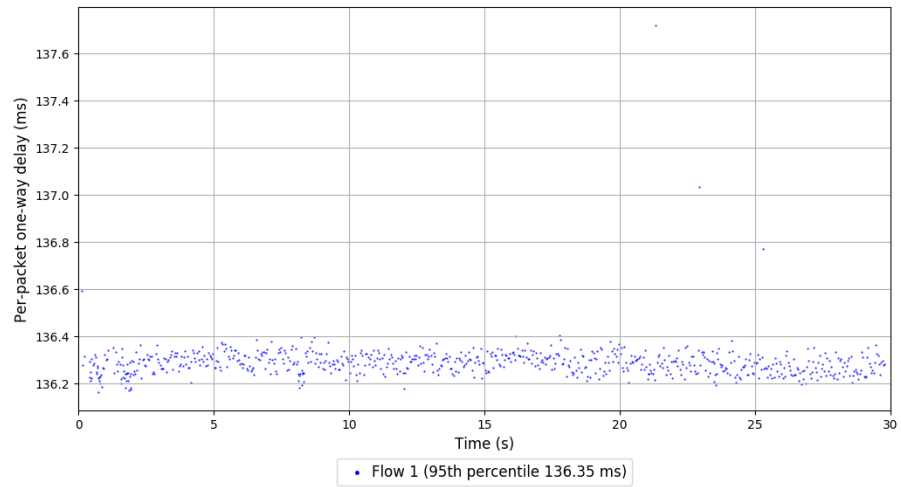
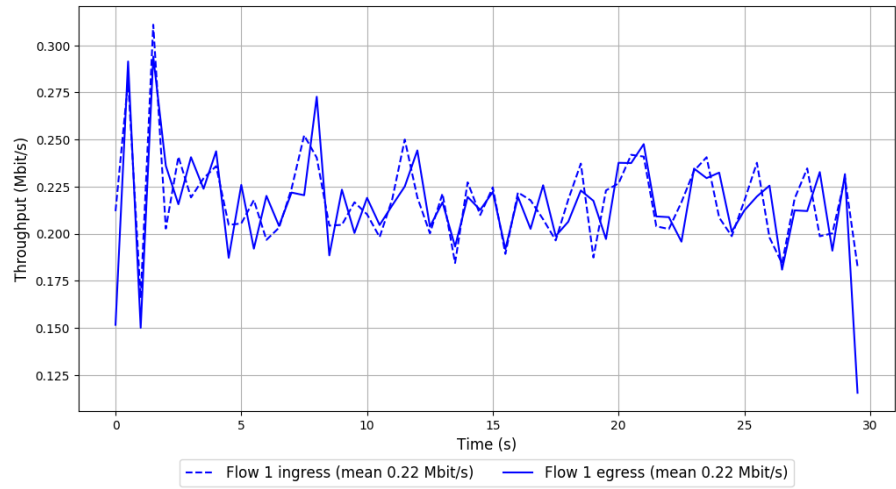
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.352 ms

Loss rate: 0.89%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2017-12-11 19:01:25

End at: 2017-12-11 19:01:55

Below is generated by plot.py at 2017-12-11 21:34:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.693 ms

Loss rate: 0.89%

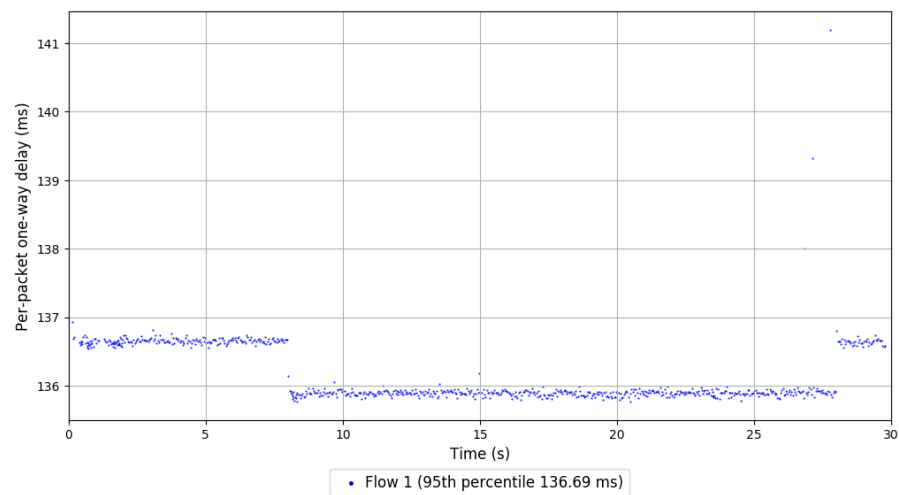
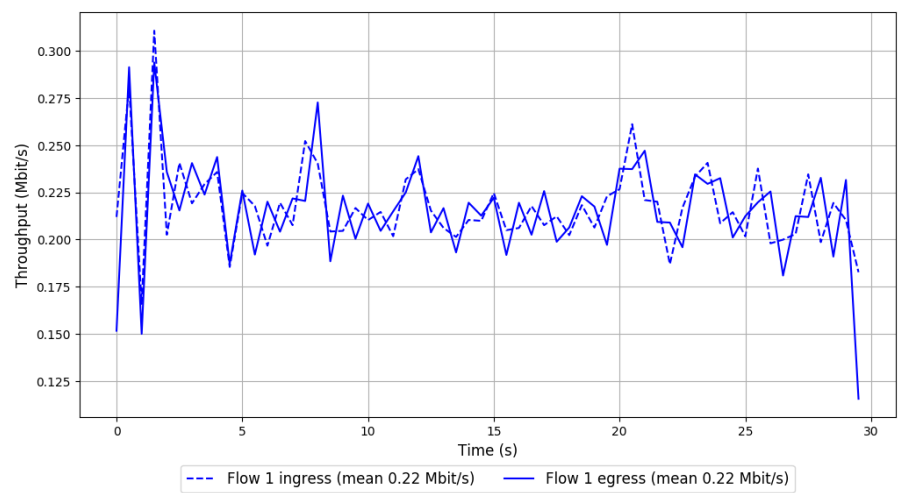
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.693 ms

Loss rate: 0.89%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2017-12-11 19:12:46

End at: 2017-12-11 19:13:16

Below is generated by plot.py at 2017-12-11 21:34:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 137.024 ms

Loss rate: 0.89%

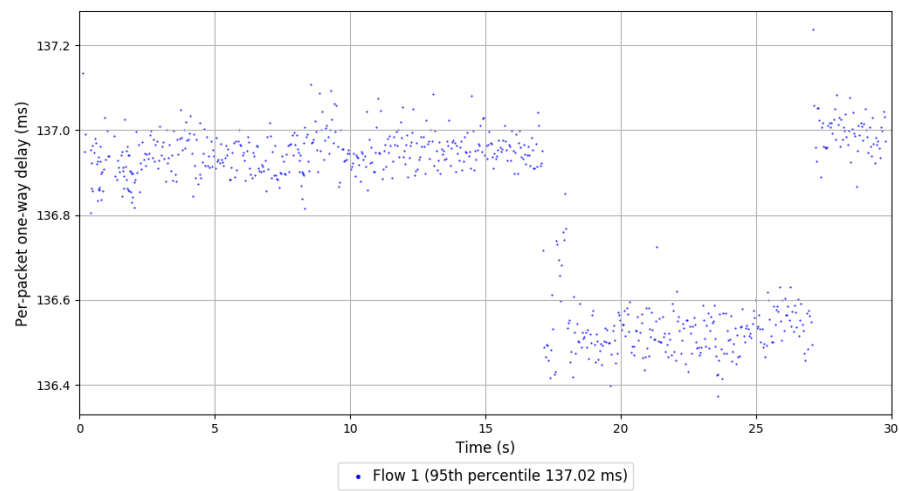
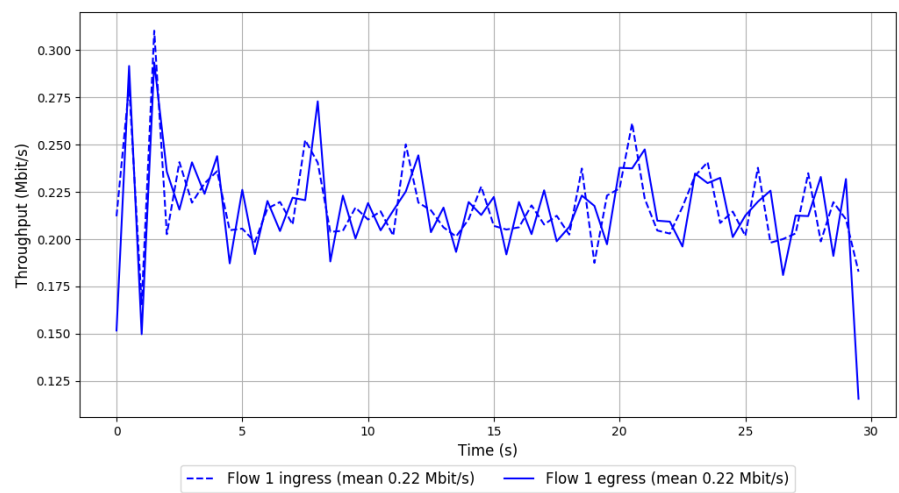
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 137.024 ms

Loss rate: 0.89%

Run 10: Report of SReAM — Data Link

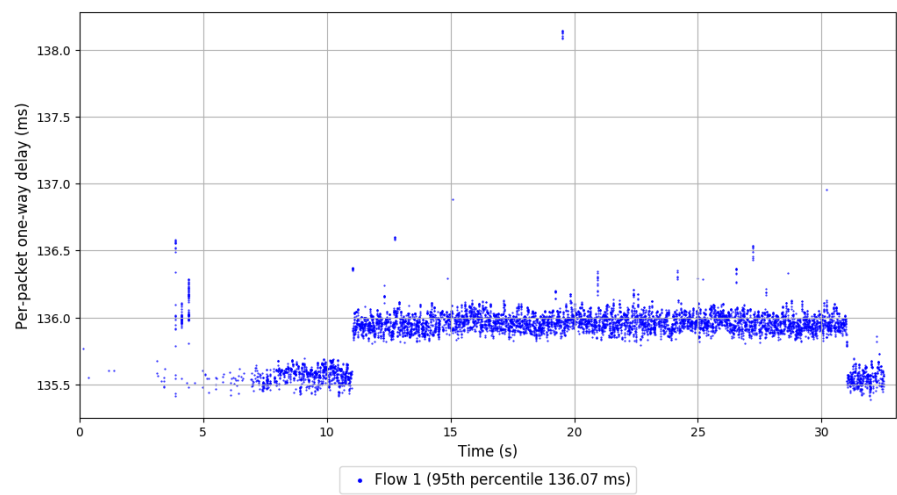
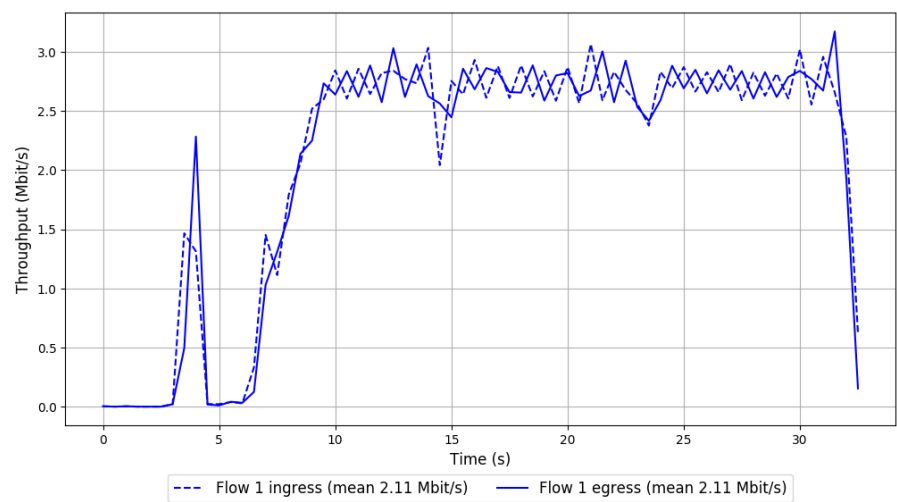


```
Run 1: Statistics of WebRTC media

Start at: 2017-12-11 17:22:15
End at: 2017-12-11 17:22:45

# Below is generated by plot.py at 2017-12-11 21:34:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.11 Mbit/s
95th percentile per-packet one-way delay: 136.075 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 2.11 Mbit/s
95th percentile per-packet one-way delay: 136.075 ms
Loss rate: 0.89%
```


Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2017-12-11 17:33:48

End at: 2017-12-11 17:34:18

Below is generated by plot.py at 2017-12-11 21:34:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 136.328 ms

Loss rate: 1.04%

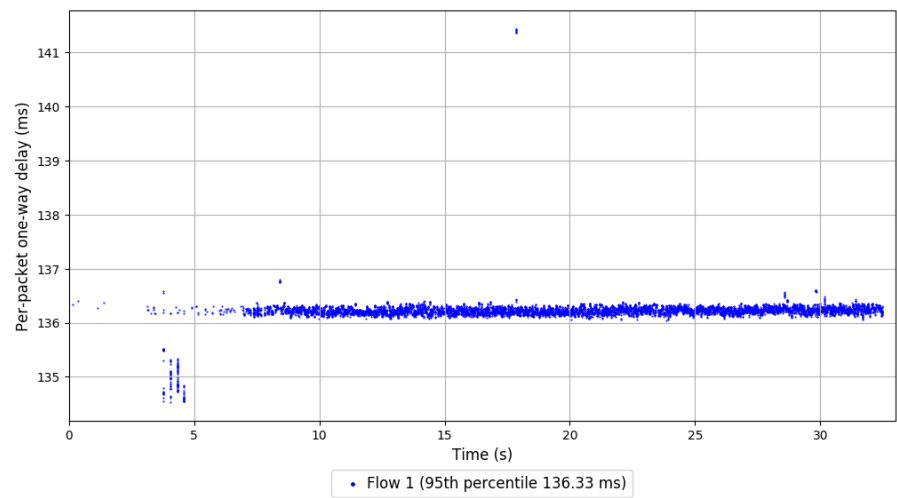
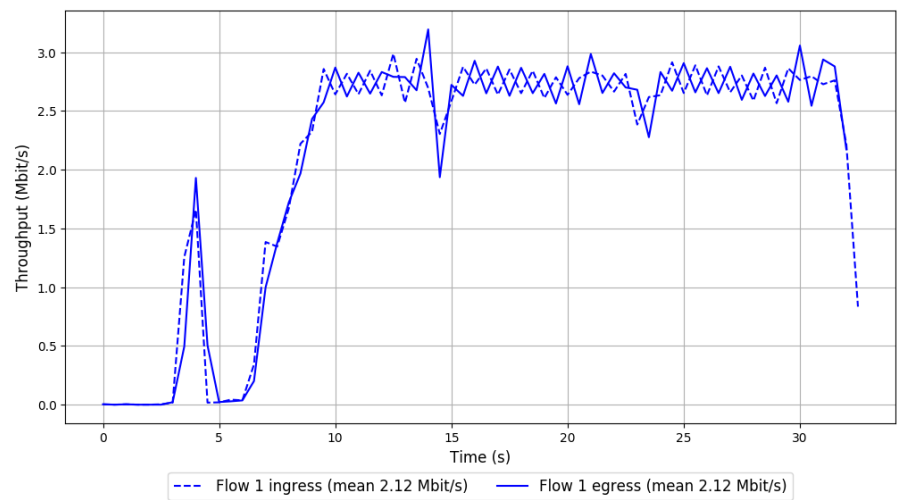
-- Flow 1:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 136.328 ms

Loss rate: 1.04%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2017-12-11 17:45:19

End at: 2017-12-11 17:45:49

Below is generated by plot.py at 2017-12-11 21:34:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.11 Mbit/s

95th percentile per-packet one-way delay: 136.189 ms

Loss rate: 1.02%

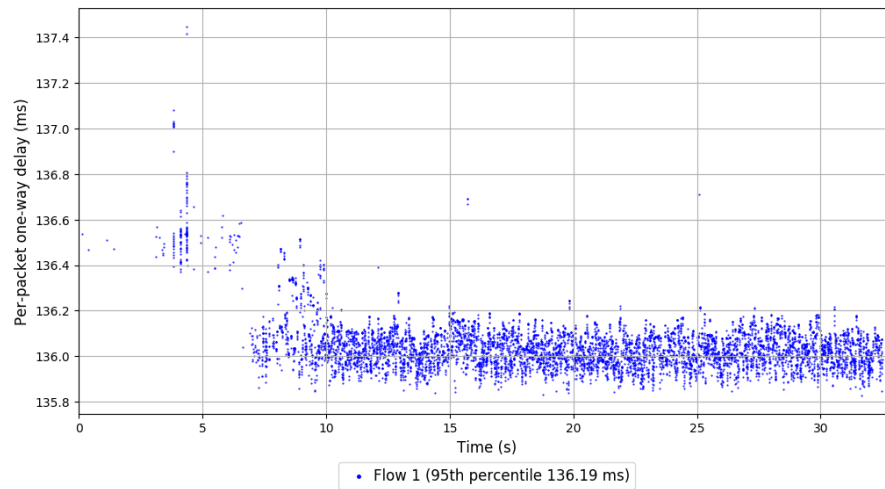
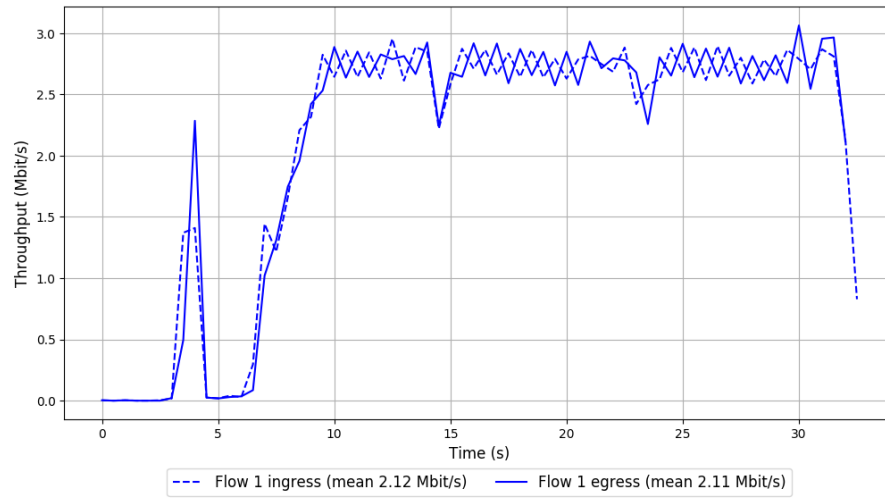
-- Flow 1:

Average throughput: 2.11 Mbit/s

95th percentile per-packet one-way delay: 136.189 ms

Loss rate: 1.02%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2017-12-11 17:56:51

End at: 2017-12-11 17:57:21

Below is generated by plot.py at 2017-12-11 21:34:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 136.074 ms

Loss rate: 1.03%

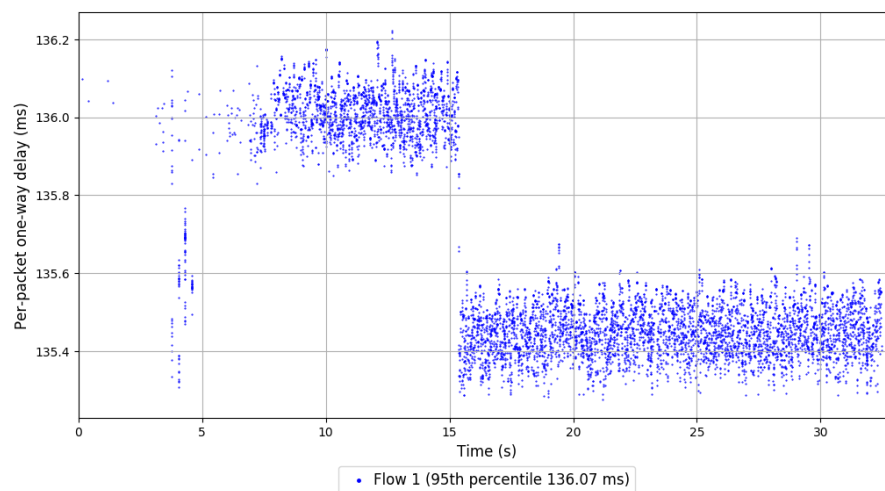
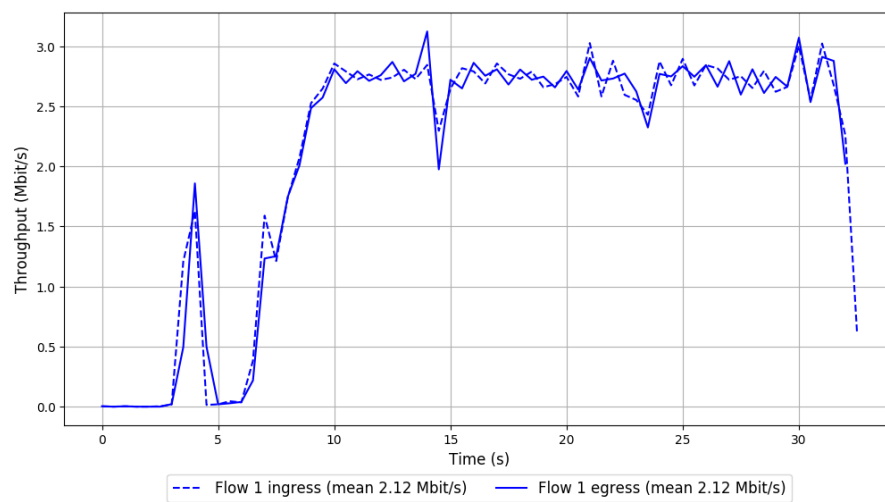
-- Flow 1:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 136.074 ms

Loss rate: 1.03%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2017-12-11 18:08:07

End at: 2017-12-11 18:08:37

Below is generated by plot.py at 2017-12-11 21:34:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.11 Mbit/s

95th percentile per-packet one-way delay: 136.550 ms

Loss rate: 1.04%

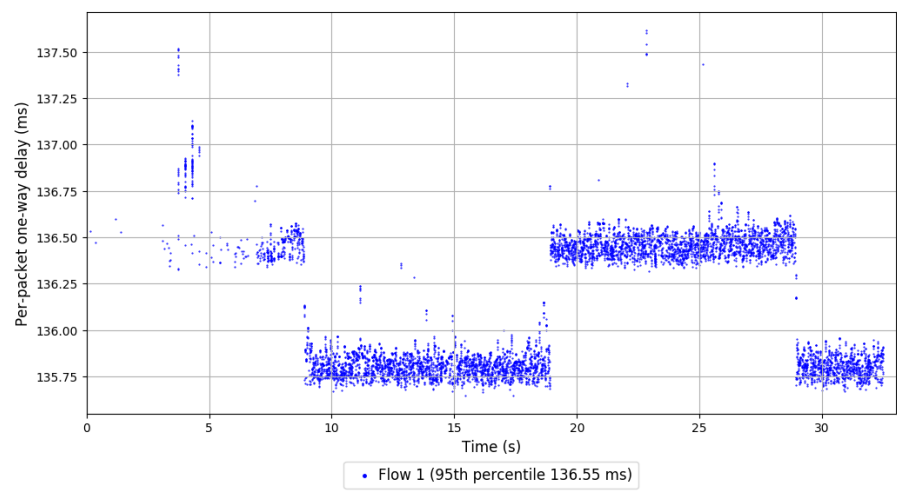
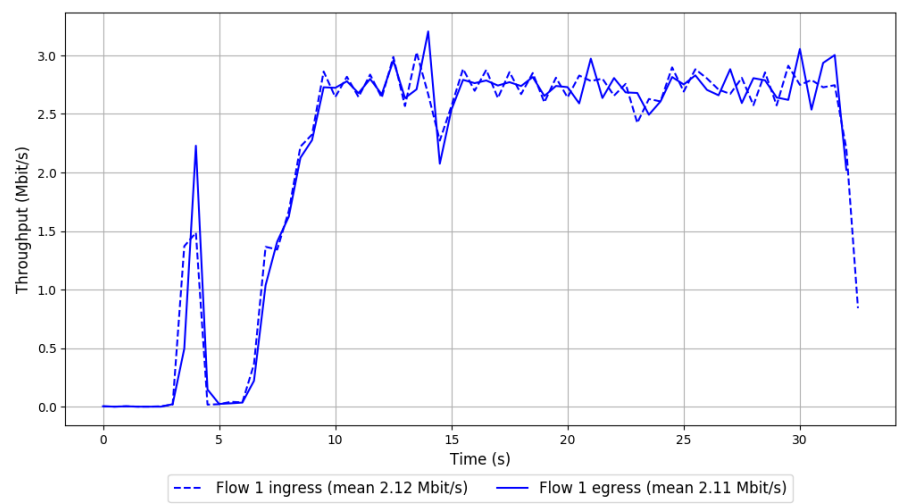
-- Flow 1:

Average throughput: 2.11 Mbit/s

95th percentile per-packet one-way delay: 136.550 ms

Loss rate: 1.04%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2017-12-11 18:19:49

End at: 2017-12-11 18:20:19

Below is generated by plot.py at 2017-12-11 21:34:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 136.103 ms

Loss rate: 0.95%

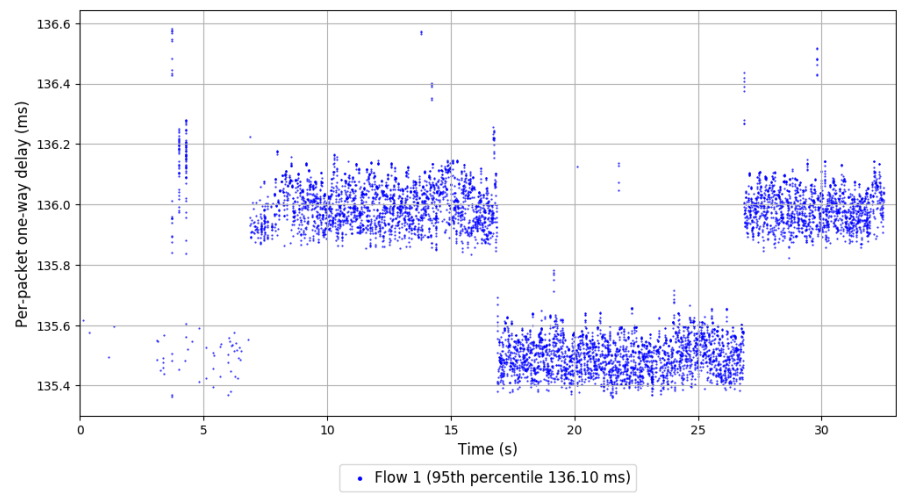
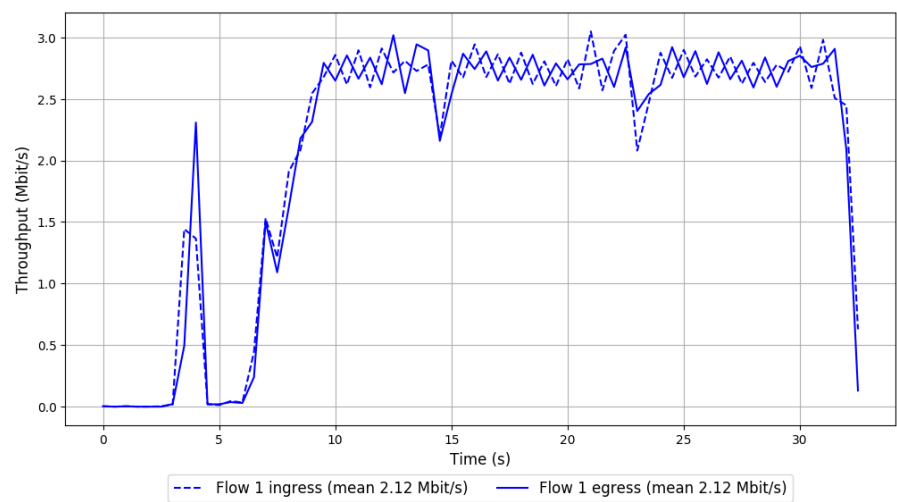
-- Flow 1:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 136.103 ms

Loss rate: 0.95%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2017-12-11 18:31:32

End at: 2017-12-11 18:32:02

Below is generated by plot.py at 2017-12-11 21:34:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 136.267 ms

Loss rate: 1.05%

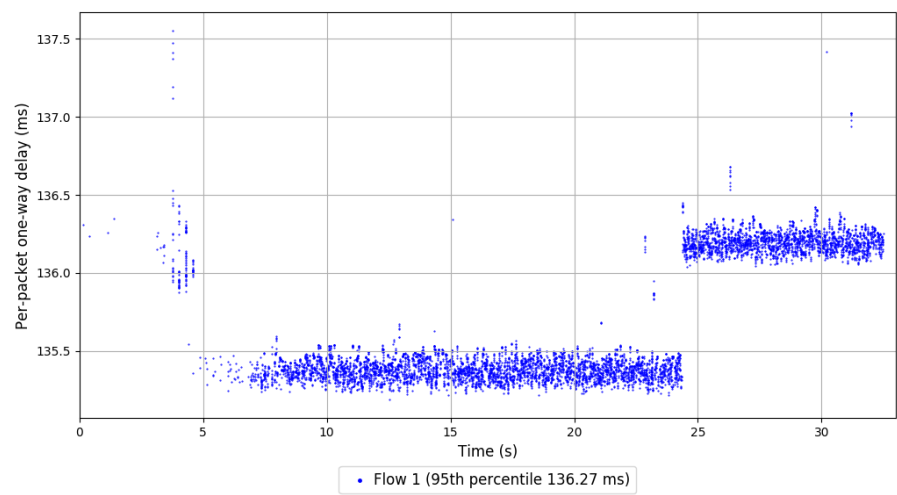
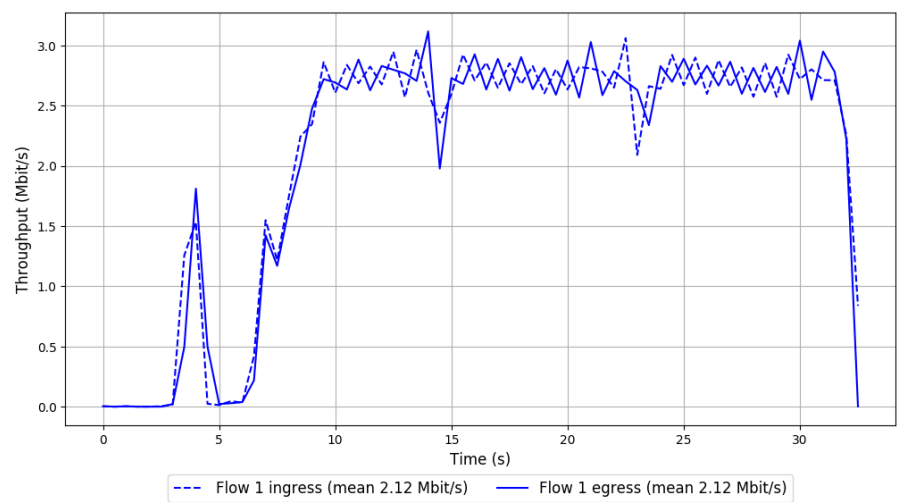
-- Flow 1:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 136.267 ms

Loss rate: 1.05%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2017-12-11 18:42:49

End at: 2017-12-11 18:43:19

Below is generated by plot.py at 2017-12-11 21:34:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 136.301 ms

Loss rate: 1.07%

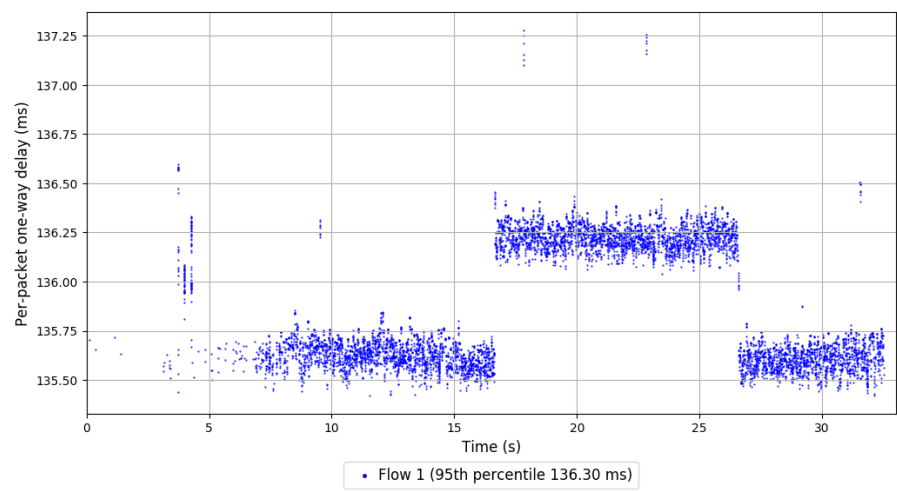
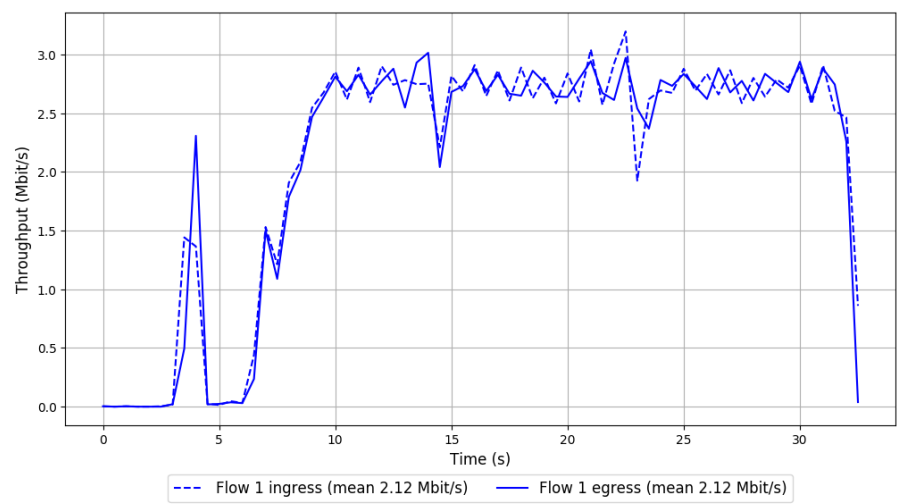
-- Flow 1:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 136.301 ms

Loss rate: 1.07%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2017-12-11 18:54:19

End at: 2017-12-11 18:54:49

Below is generated by plot.py at 2017-12-11 21:34:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.12 Mbit/s

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

Loss rate: 1.05%

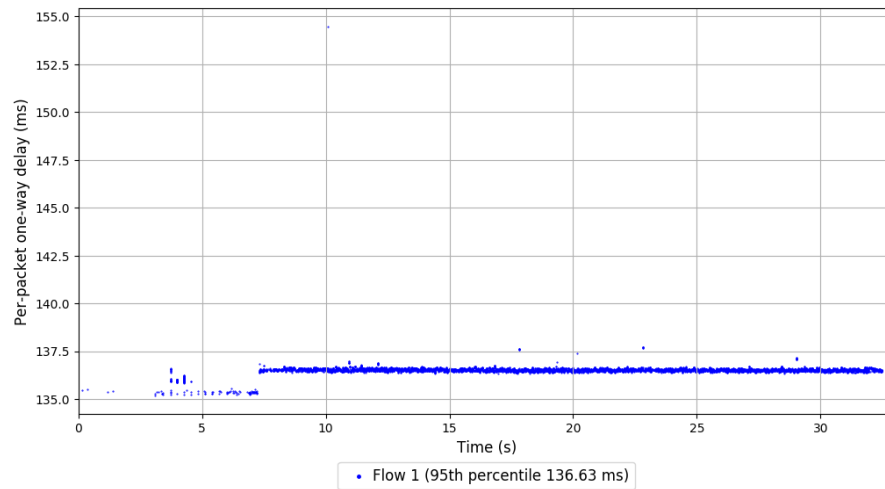
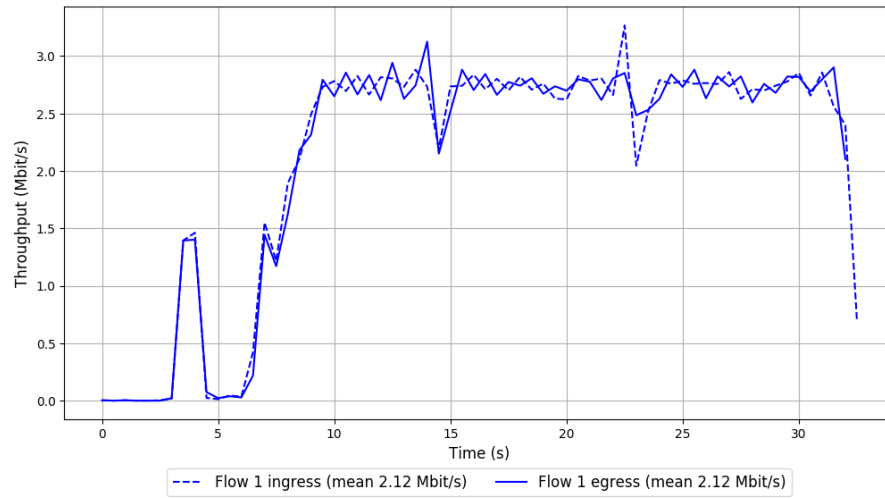
-- Flow 1:

Average throughput: 2.12 Mbit/s

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

Loss rate: 1.05%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2017-12-11 19:05:50

End at: 2017-12-11 19:06:20

Below is generated by plot.py at 2017-12-11 21:34:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 136.577 ms

Loss rate: 1.06%

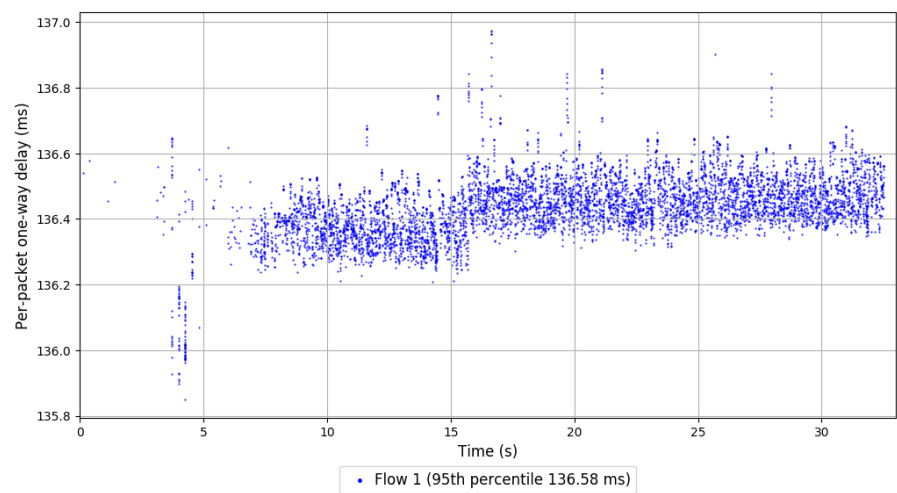
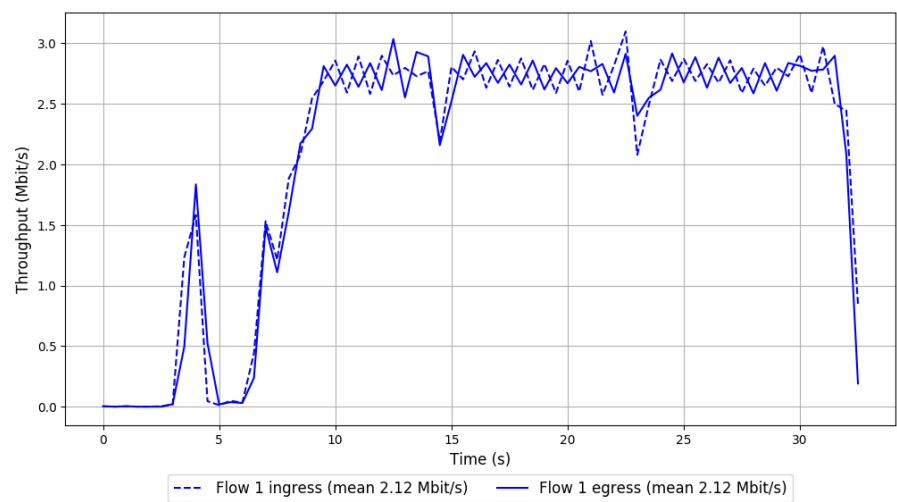
-- Flow 1:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 136.577 ms

Loss rate: 1.06%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2017-12-11 17:23:44

End at: 2017-12-11 17:24:14

Below is generated by plot.py at 2017-12-11 21:34:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.47 Mbit/s

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

Loss rate: 0.91%

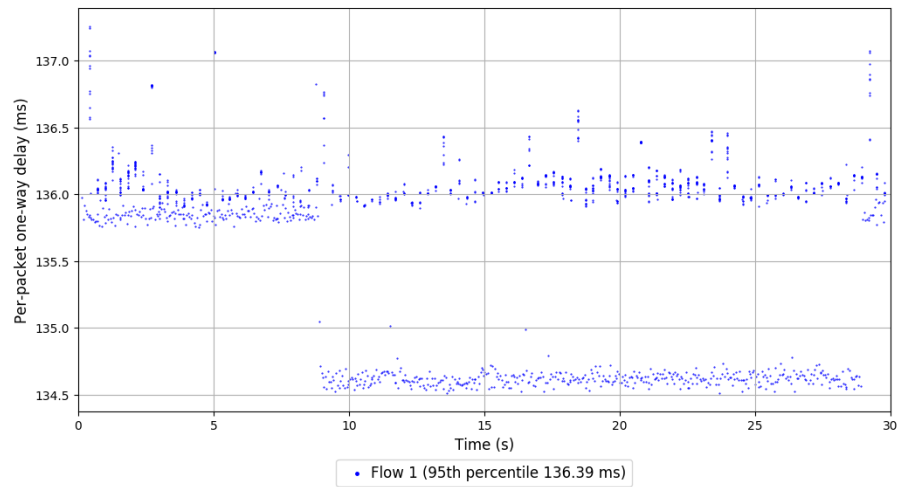
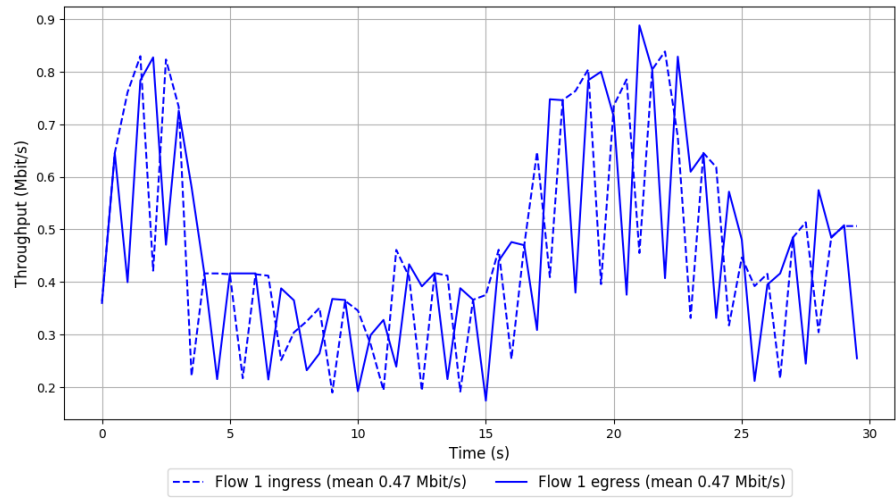
-- Flow 1:

Average throughput: 0.47 Mbit/s

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

Loss rate: 0.91%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2017-12-11 17:35:18

End at: 2017-12-11 17:35:48

Below is generated by plot.py at 2017-12-11 21:34:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 136.263 ms

Loss rate: 1.08%

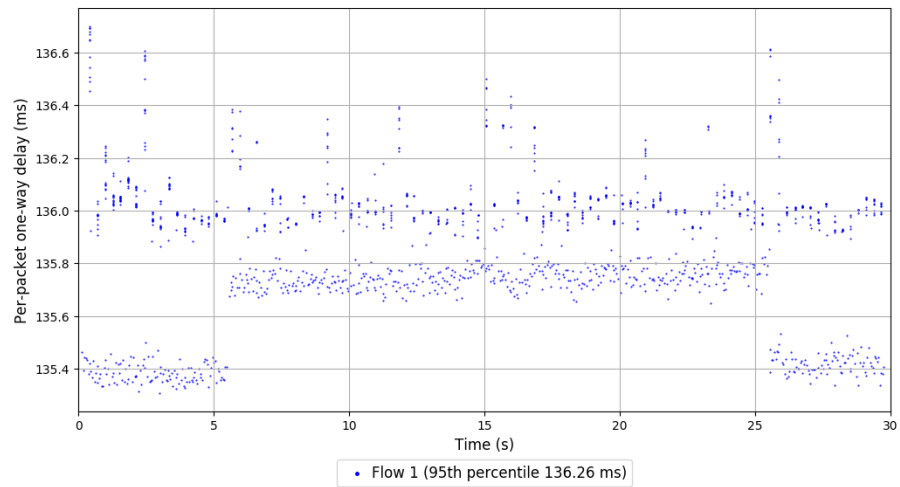
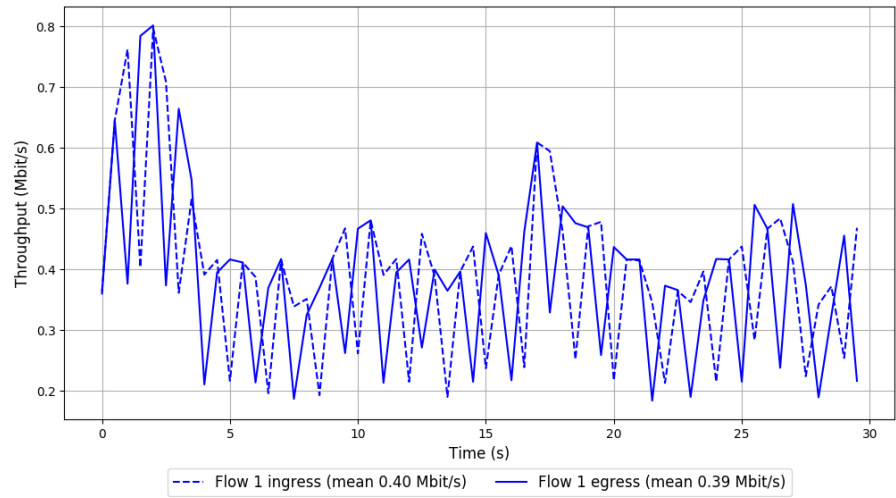
-- Flow 1:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 136.263 ms

Loss rate: 1.08%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2017-12-11 17:46:50

End at: 2017-12-11 17:47:20

Below is generated by plot.py at 2017-12-11 21:34:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.41 Mbit/s

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

Loss rate: 1.02%

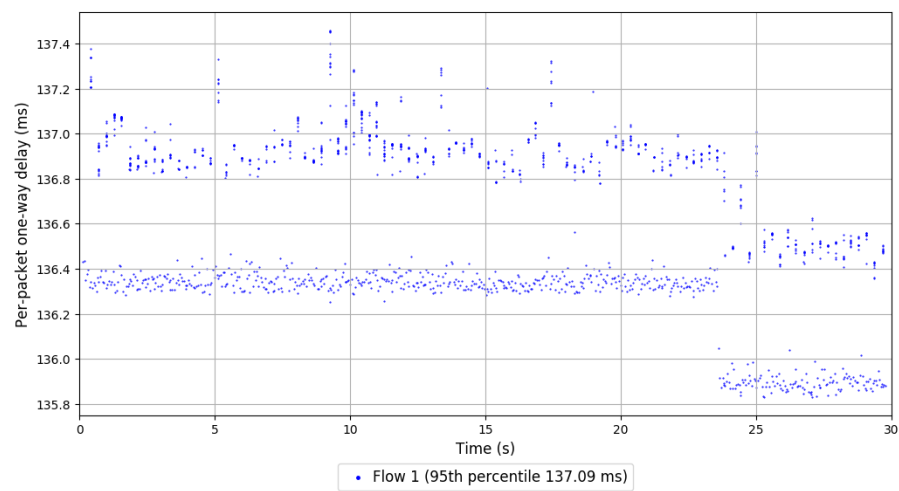
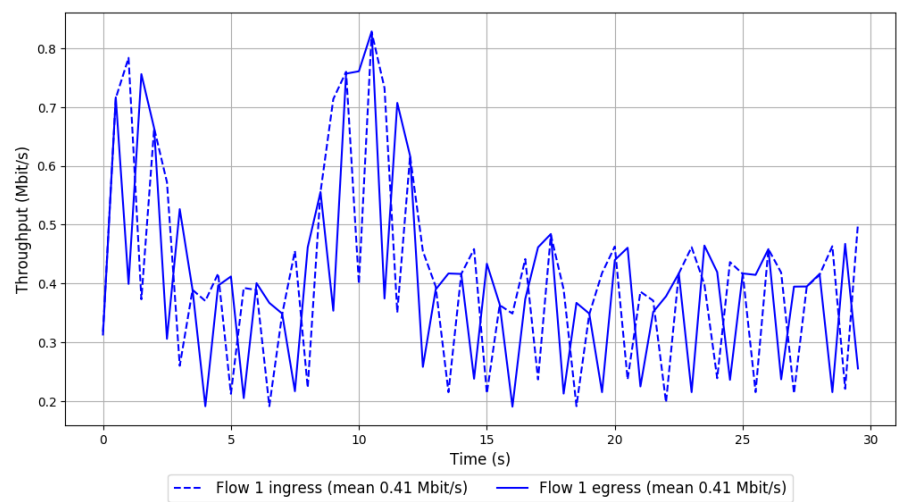
-- Flow 1:

Average throughput: 0.41 Mbit/s

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

Loss rate: 1.02%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2017-12-11 17:58:21

End at: 2017-12-11 17:58:51

Below is generated by plot.py at 2017-12-11 21:34:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 136.969 ms

Loss rate: 0.82%

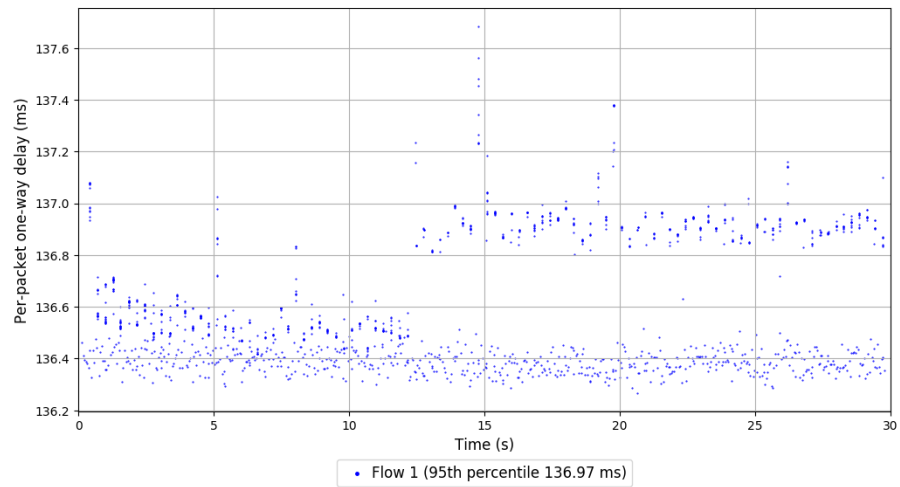
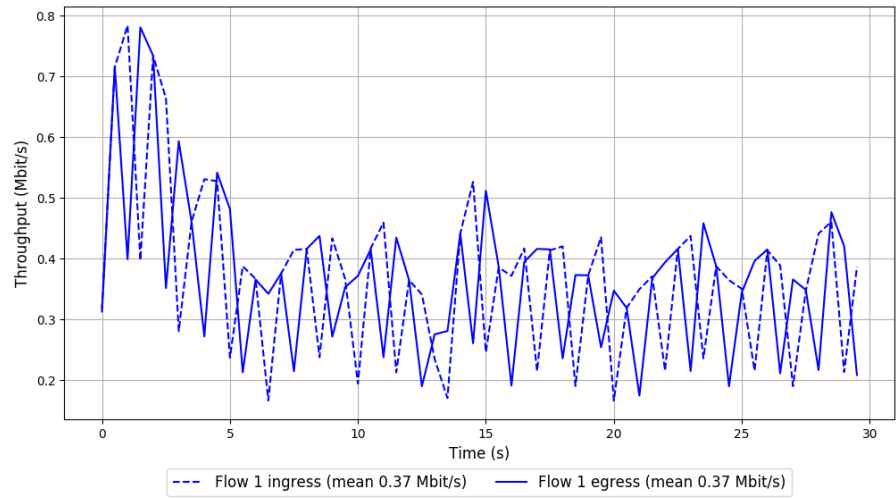
-- Flow 1:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 136.969 ms

Loss rate: 0.82%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2017-12-11 18:09:37

End at: 2017-12-11 18:10:07

Below is generated by plot.py at 2017-12-11 21:34:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.40 Mbit/s

95th percentile per-packet one-way delay: 136.965 ms

Loss rate: 0.97%

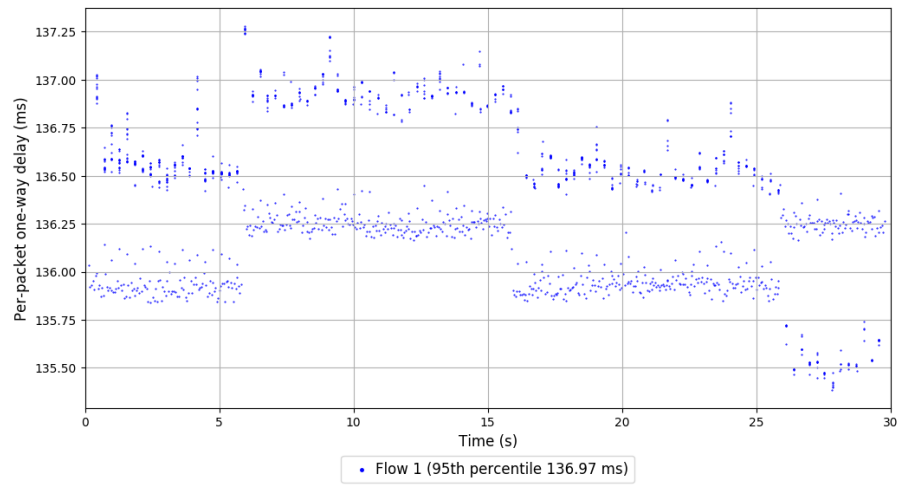
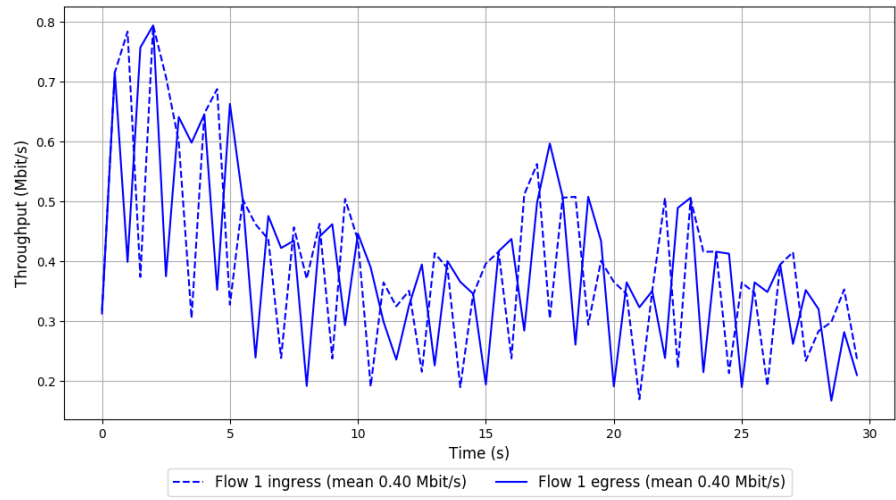
-- Flow 1:

Average throughput: 0.40 Mbit/s

95th percentile per-packet one-way delay: 136.965 ms

Loss rate: 0.97%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2017-12-11 18:21:18

End at: 2017-12-11 18:21:48

Below is generated by plot.py at 2017-12-11 21:34:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.41 Mbit/s

95th percentile per-packet one-way delay: 136.805 ms

Loss rate: 0.68%

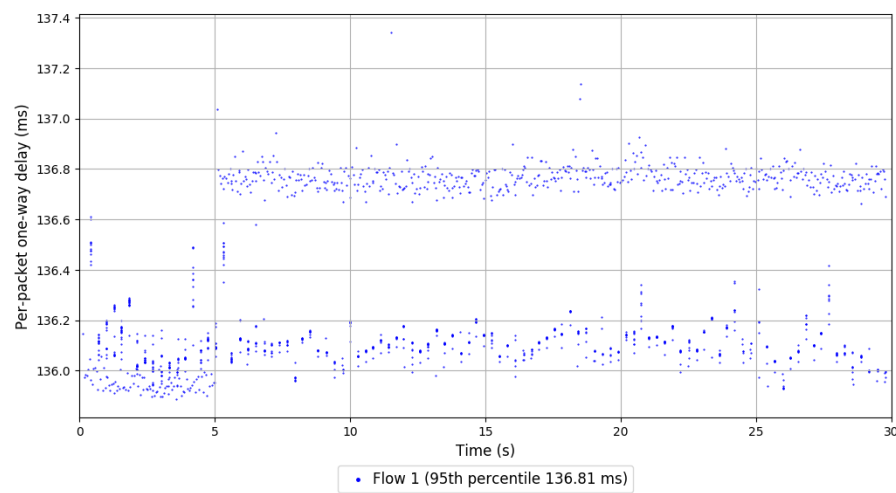
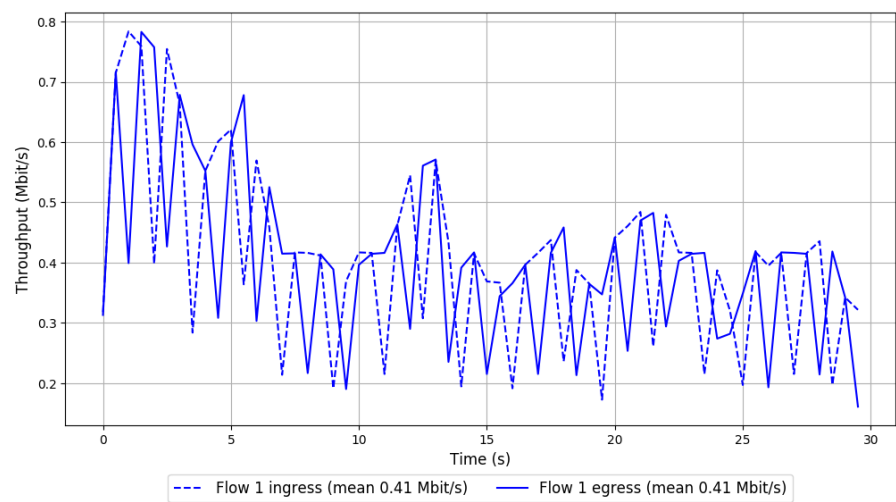
-- Flow 1:

Average throughput: 0.41 Mbit/s

95th percentile per-packet one-way delay: 136.805 ms

Loss rate: 0.68%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2017-12-11 18:33:01

End at: 2017-12-11 18:33:31

Below is generated by plot.py at 2017-12-11 21:34:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 136.496 ms

Loss rate: 0.63%

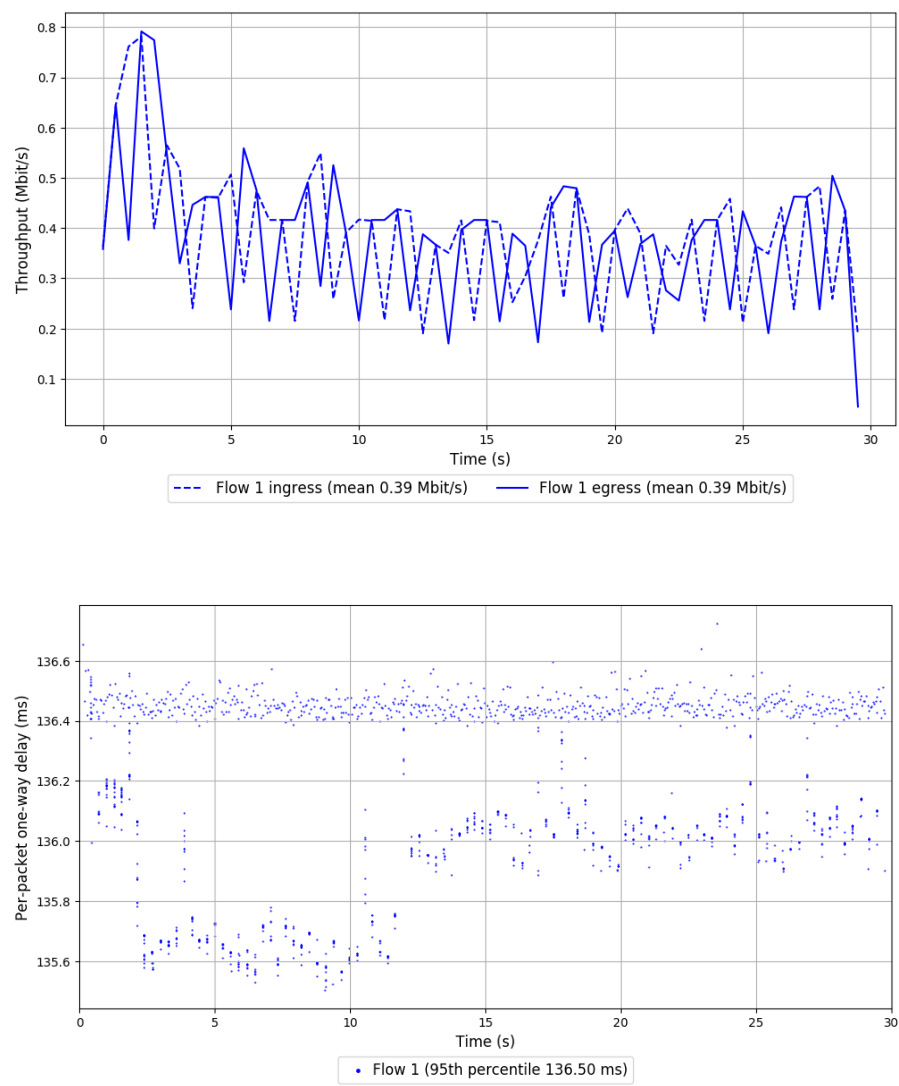
-- Flow 1:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 136.496 ms

Loss rate: 0.63%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2017-12-11 18:44:19

End at: 2017-12-11 18:44:49

Below is generated by plot.py at 2017-12-11 21:34:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 136.225 ms

Loss rate: 0.70%

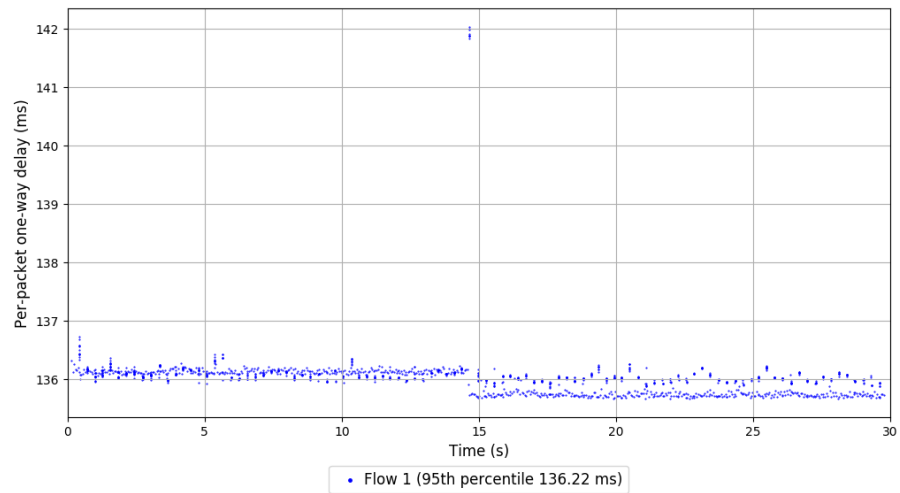
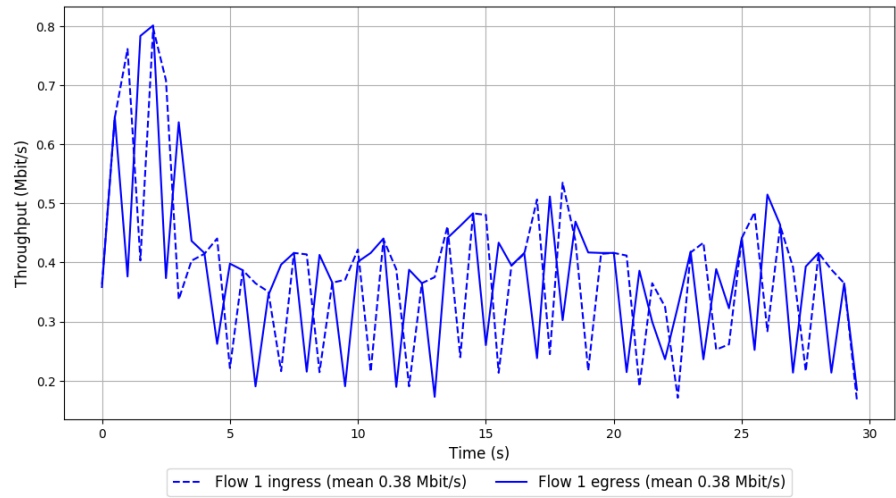
-- Flow 1:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 136.225 ms

Loss rate: 0.70%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2017-12-11 18:55:49

End at: 2017-12-11 18:56:19

Below is generated by plot.py at 2017-12-11 21:34:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.36 Mbit/s

95th percentile per-packet one-way delay: 136.461 ms

Loss rate: 0.20%

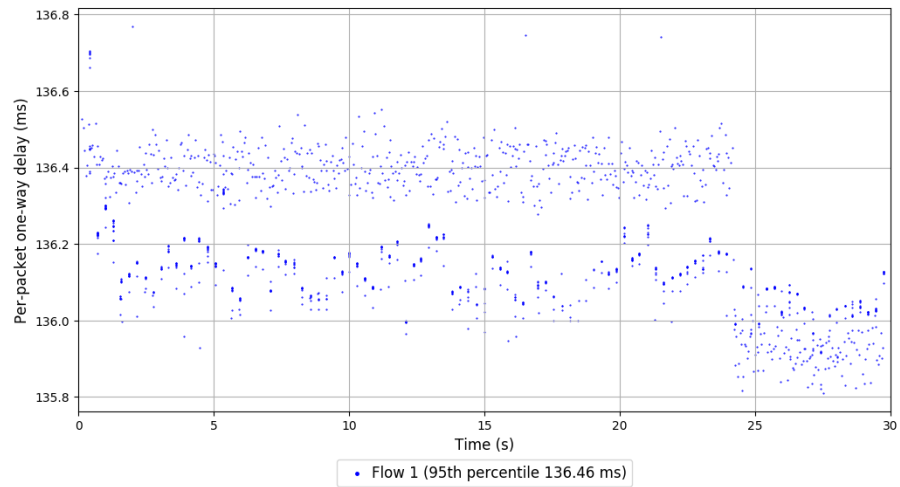
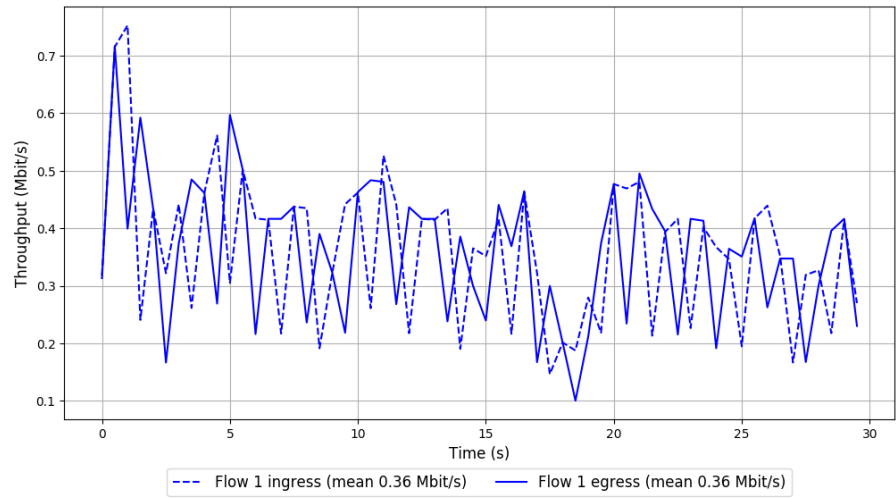
-- Flow 1:

Average throughput: 0.36 Mbit/s

95th percentile per-packet one-way delay: 136.461 ms

Loss rate: 0.20%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2017-12-11 19:07:20

End at: 2017-12-11 19:07:50

Below is generated by plot.py at 2017-12-11 21:34:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 136.192 ms

Loss rate: 0.65%

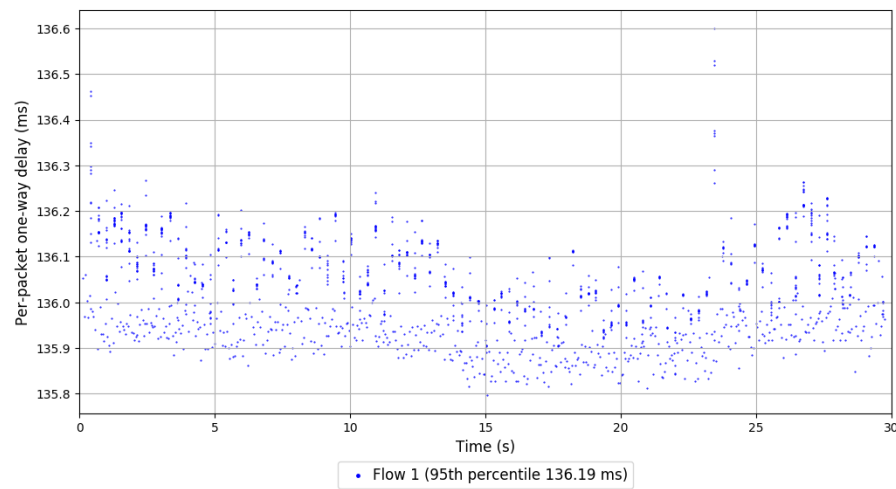
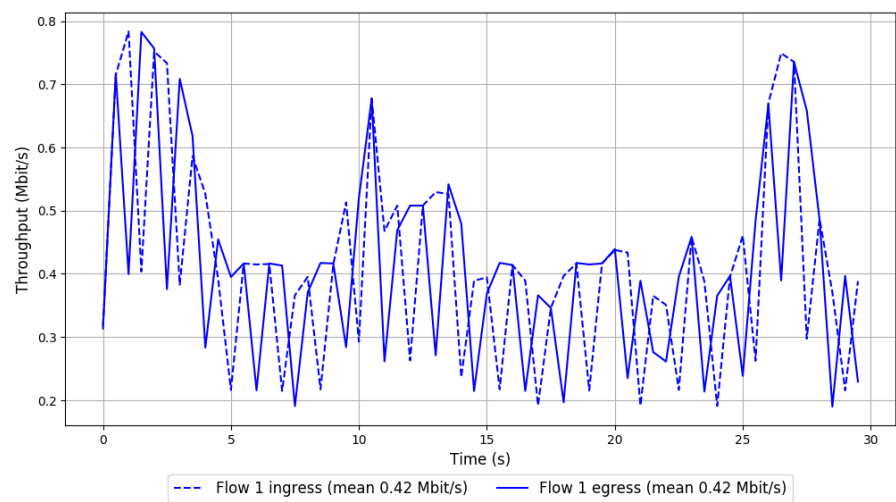
-- Flow 1:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 136.192 ms

Loss rate: 0.65%

Run 10: Report of Sprout — Data Link

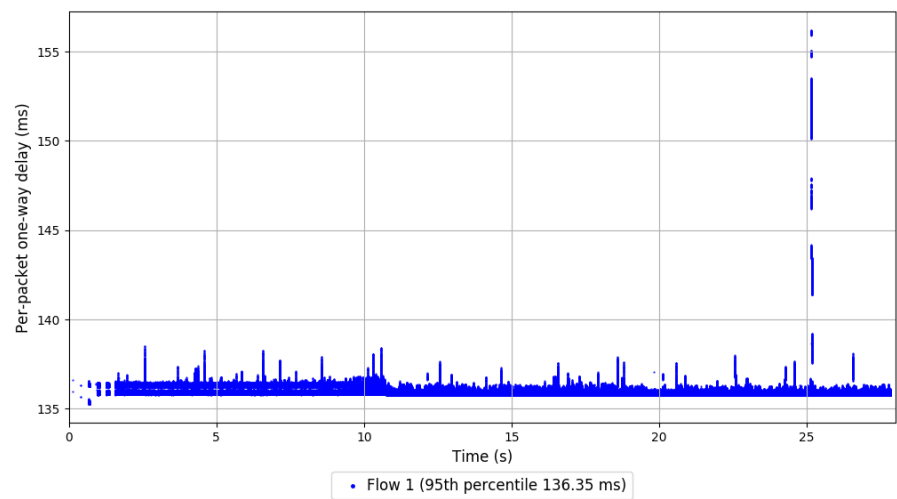
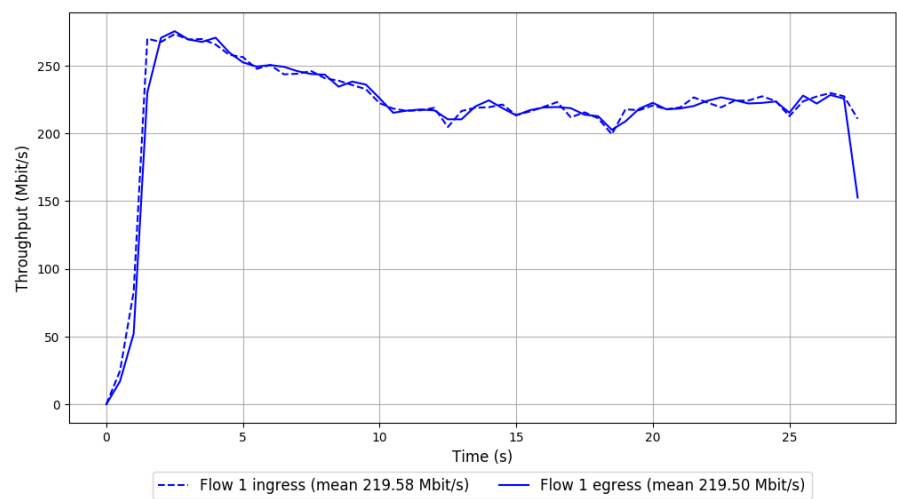


```
Run 1: Statistics of TaoVA-100x

Start at: 2017-12-11 17:21:11
End at: 2017-12-11 17:21:41

# Below is generated by plot.py at 2017-12-11 21:34:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 219.50 Mbit/s
95th percentile per-packet one-way delay: 136.355 ms
Loss rate: 1.01%
-- Flow 1:
Average throughput: 219.50 Mbit/s
95th percentile per-packet one-way delay: 136.355 ms
Loss rate: 1.01%
```


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

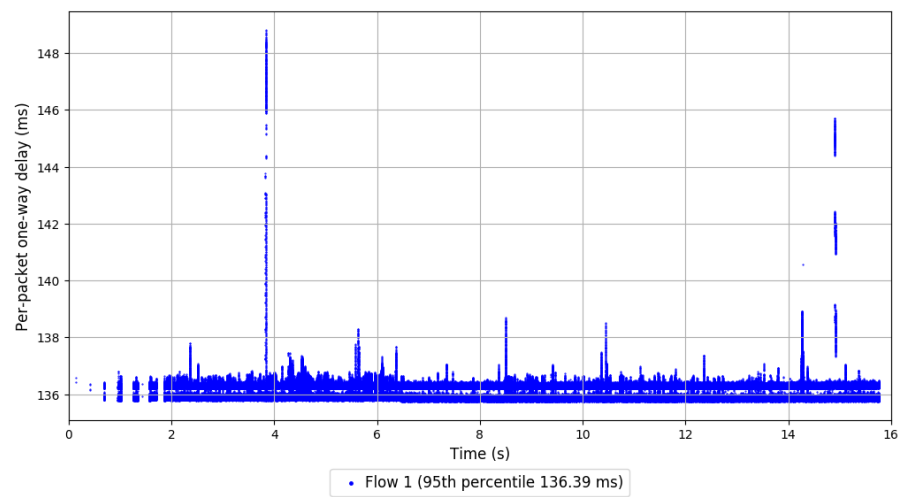
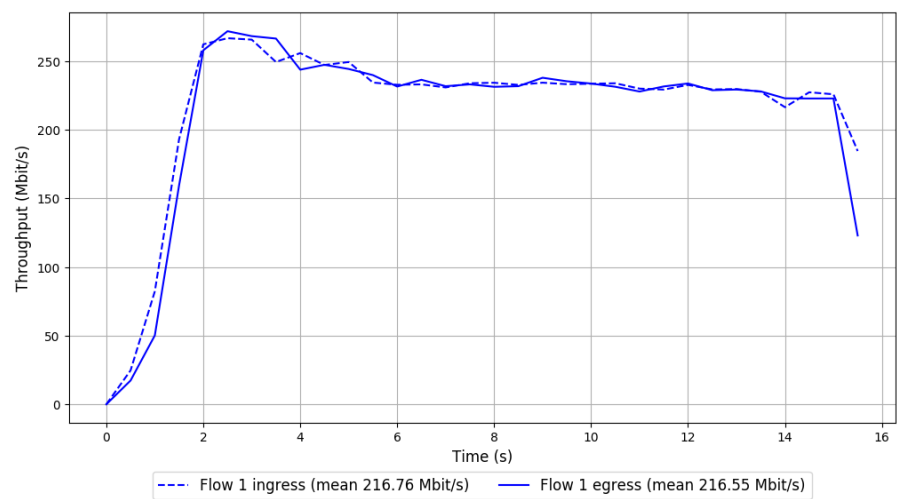


Run 2: Statistics of TaoVA-100x

Start at: 2017-12-11 17:32:53

End at: 2017-12-11 17:33:23

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

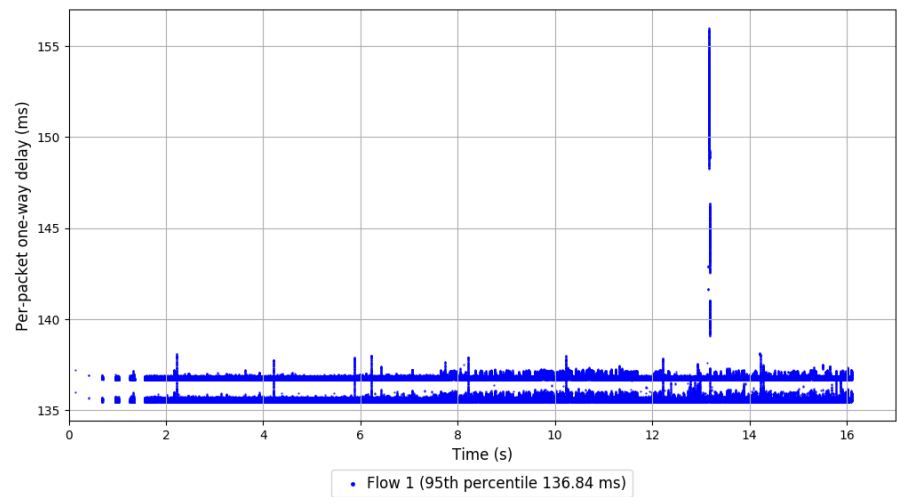
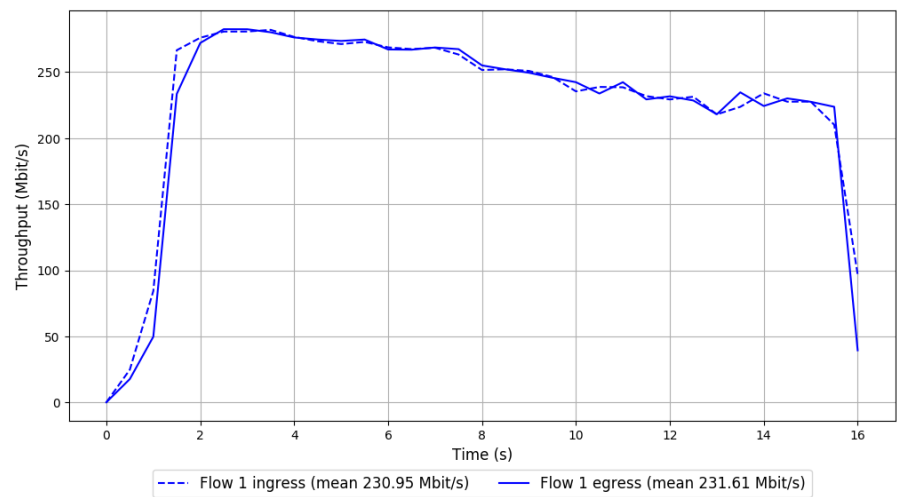


Run 3: Statistics of TaoVA-100x

Start at: 2017-12-11 17:44:23

End at: 2017-12-11 17:44:53

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

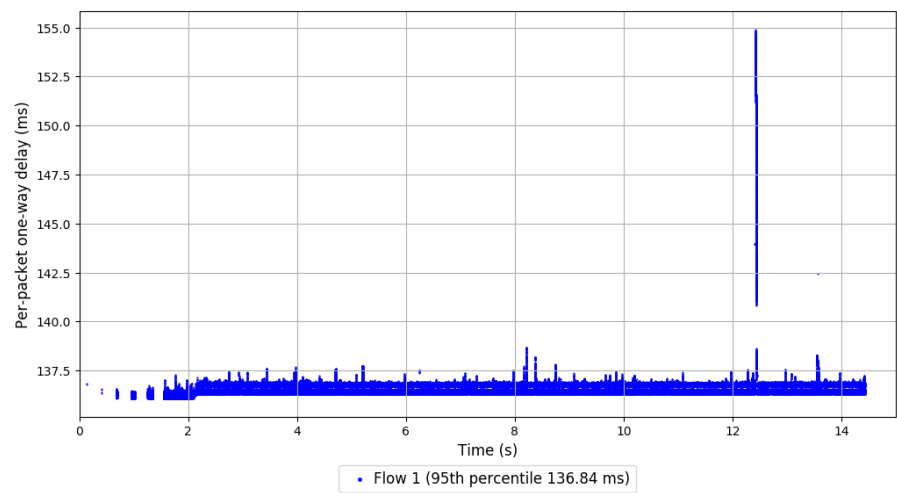
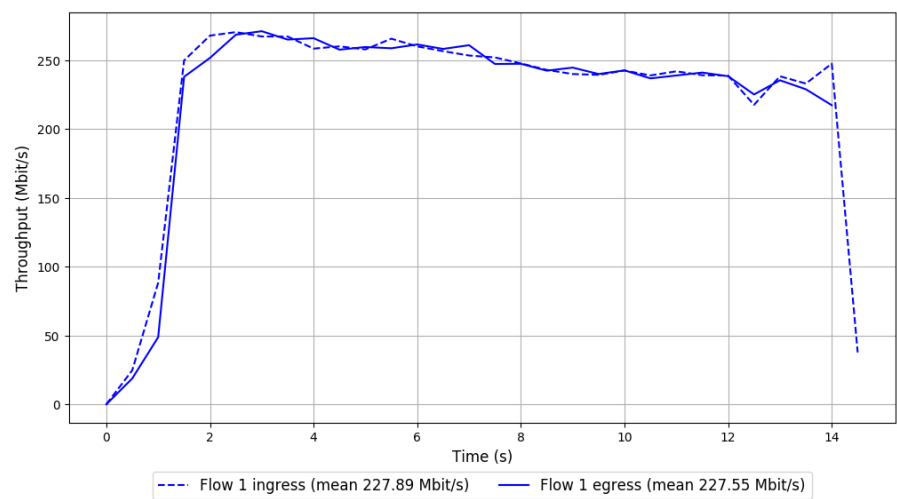


Run 4: Statistics of TaoVA-100x

Start at: 2017-12-11 17:55:56

End at: 2017-12-11 17:56:26

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

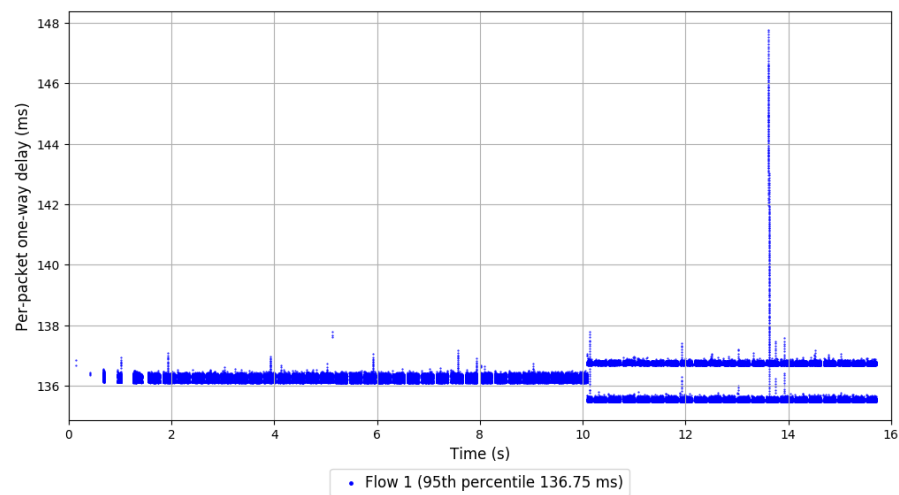
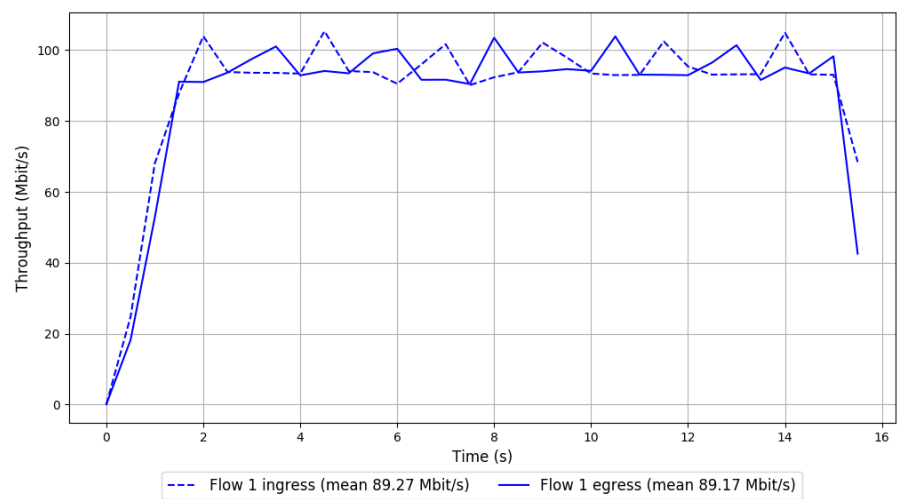


Run 5: Statistics of TaoVA-100x

Start at: 2017-12-11 18:07:19

End at: 2017-12-11 18:07:49

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

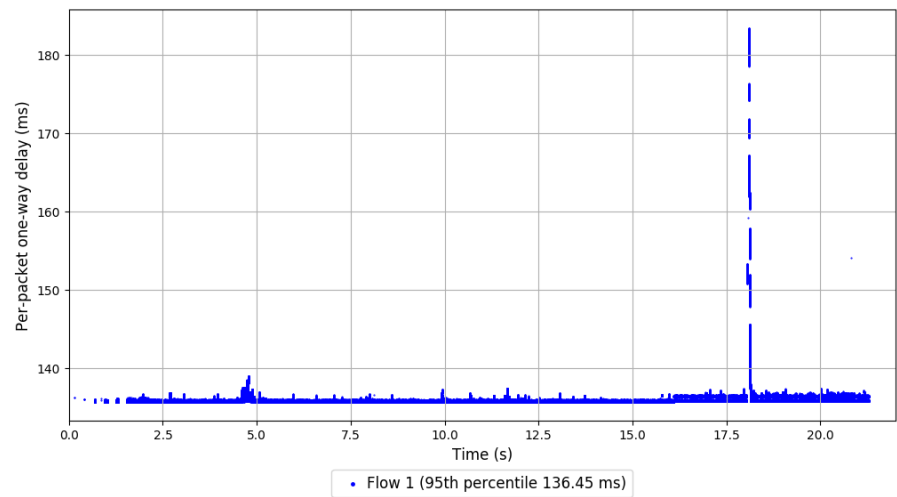
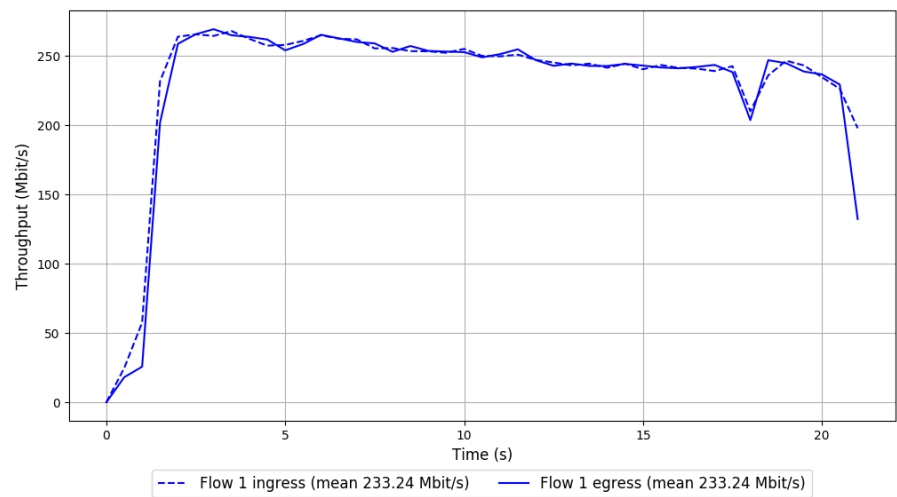


Run 6: Statistics of TaoVA-100x

Start at: 2017-12-11 18:18:49

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

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

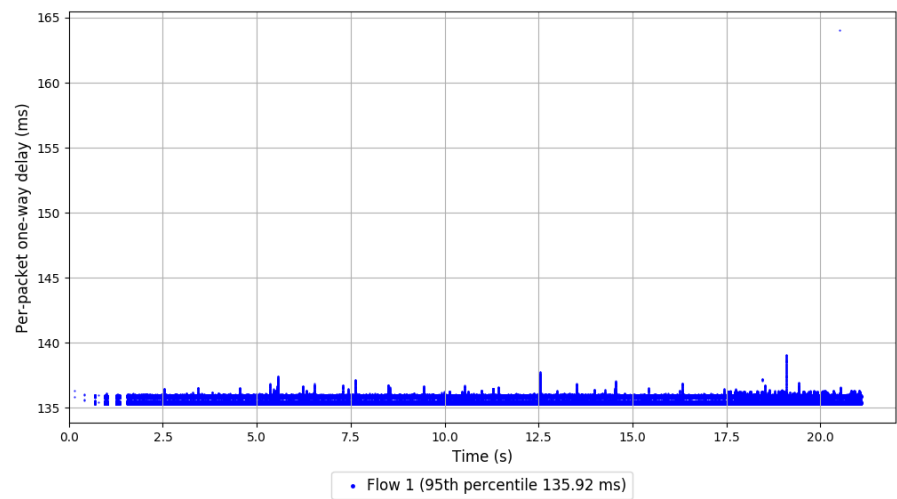
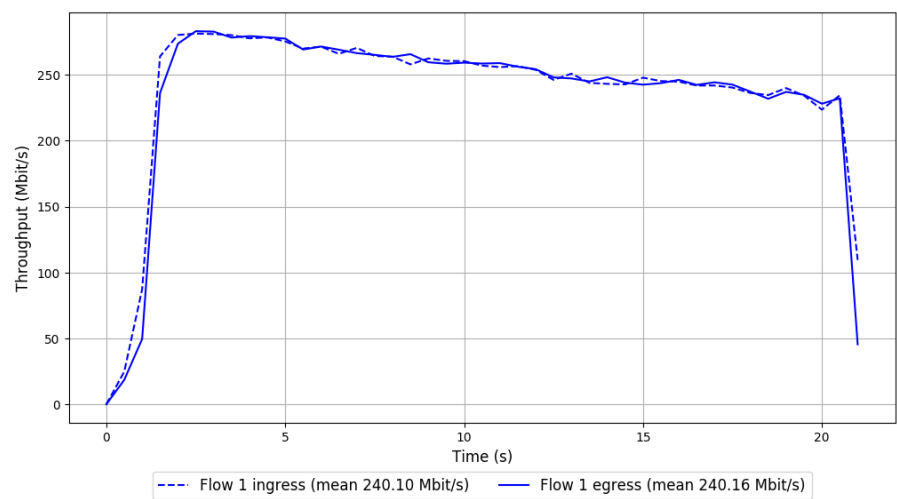


Run 7: Statistics of TaoVA-100x

Start at: 2017-12-11 18:30:31

End at: 2017-12-11 18:31:01

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

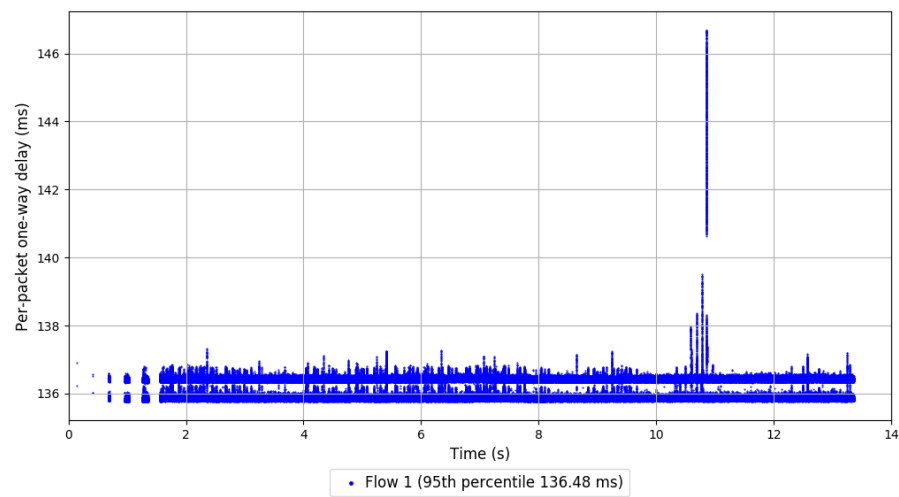
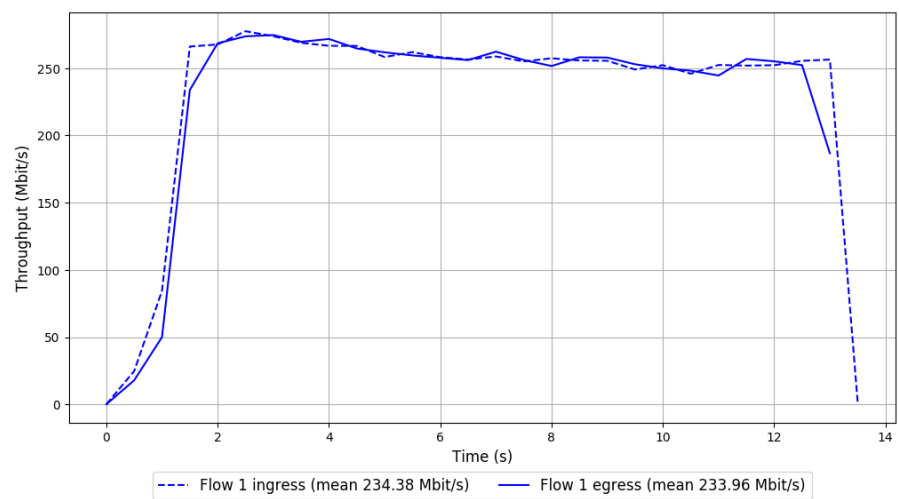


Run 8: Statistics of TaoVA-100x

Start at: 2017-12-11 18:41:55

End at: 2017-12-11 18:42:26

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

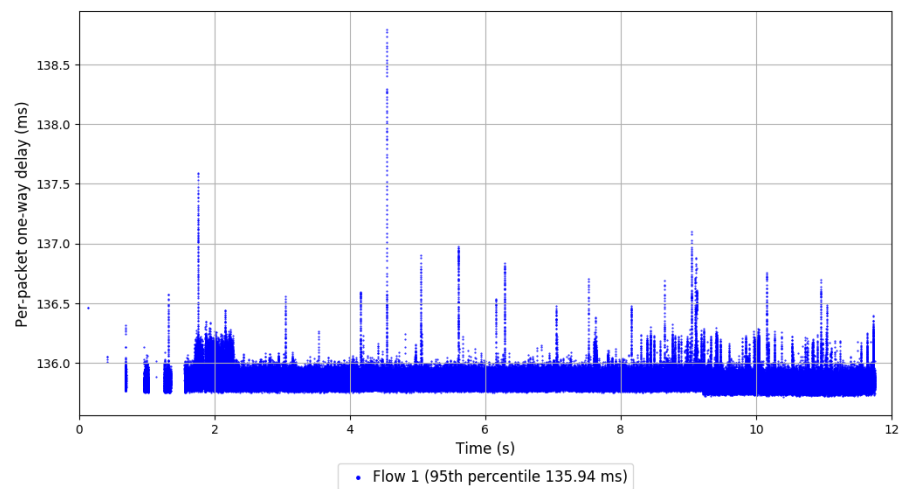
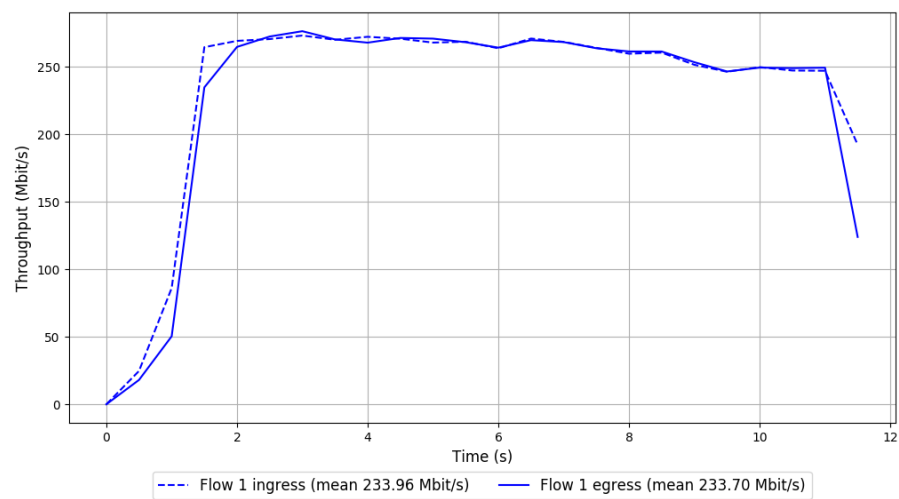


Run 9: Statistics of TaoVA-100x

Start at: 2017-12-11 18:53:26

End at: 2017-12-11 18:53:56

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

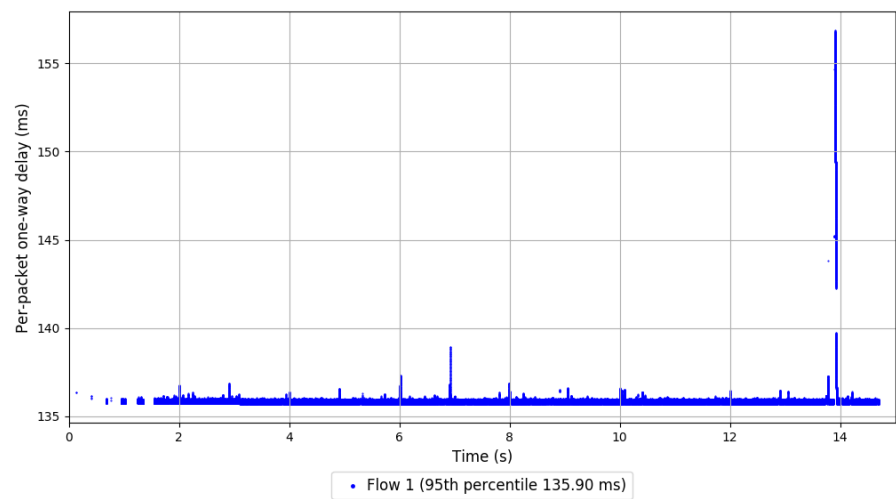
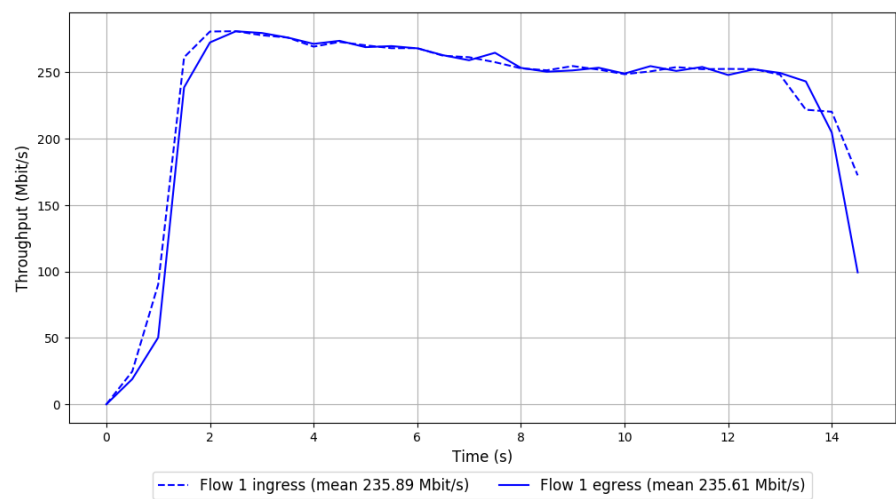


Run 10: Statistics of TaoVA-100x

Start at: 2017-12-11 19:04:55

End at: 2017-12-11 19:05:25

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



Run 1: Statistics of TCP Vegas

Start at: 2017-12-11 17:26:56

End at: 2017-12-11 17:27:27

Below is generated by plot.py at 2017-12-11 21:35:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 62.82 Mbit/s

95th percentile per-packet one-way delay: 144.296 ms

Loss rate: 0.92%

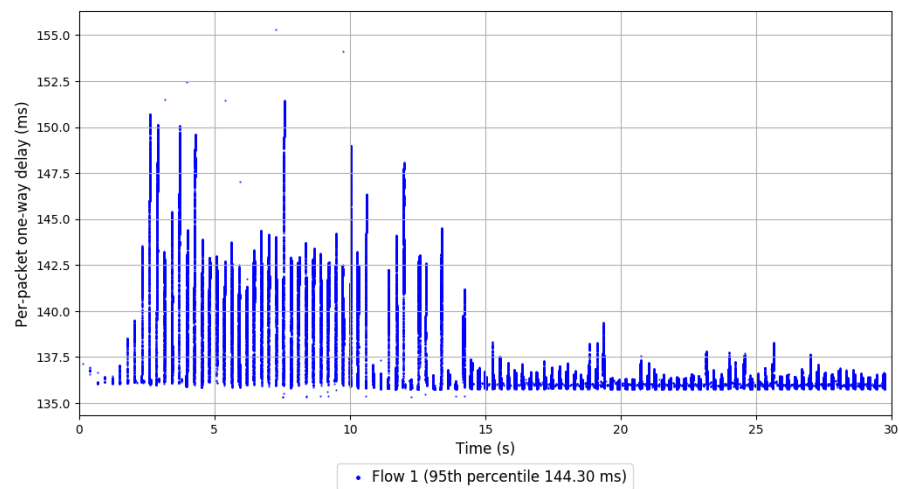
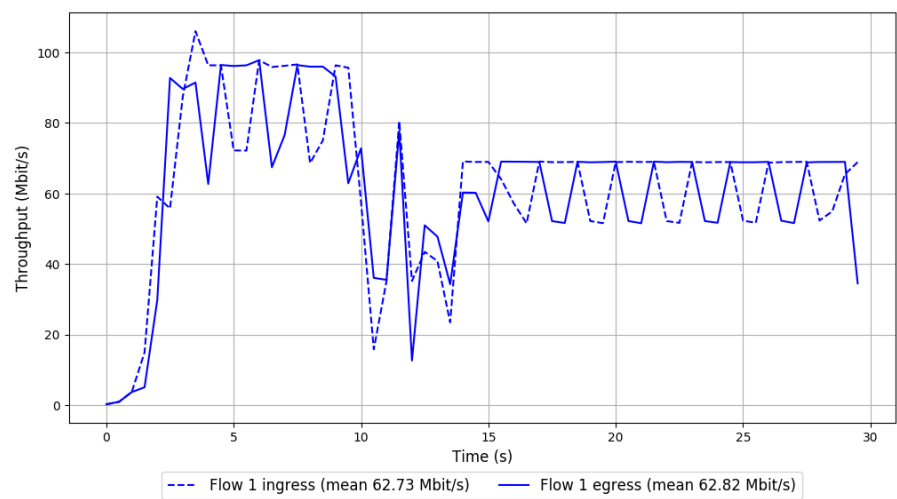
-- Flow 1:

Average throughput: 62.82 Mbit/s

95th percentile per-packet one-way delay: 144.296 ms

Loss rate: 0.92%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2017-12-11 17:38:31

End at: 2017-12-11 17:39:01

Below is generated by plot.py at 2017-12-11 21:35:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 19.65 Mbit/s

95th percentile per-packet one-way delay: 143.571 ms

Loss rate: 0.79%

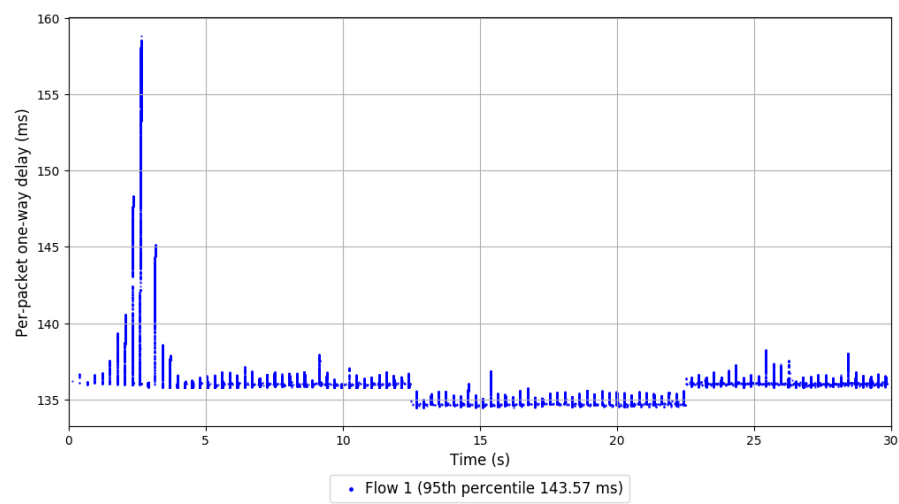
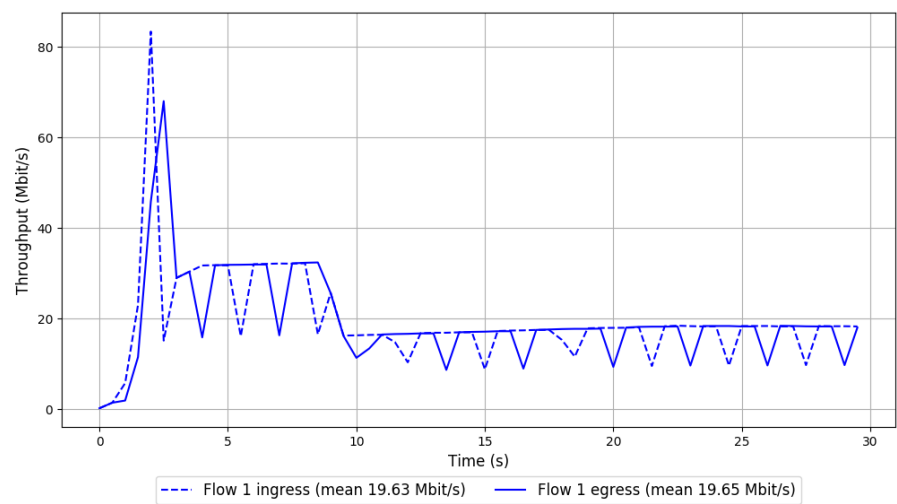
-- Flow 1:

Average throughput: 19.65 Mbit/s

95th percentile per-packet one-way delay: 143.571 ms

Loss rate: 0.79%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2017-12-11 17:50:03

End at: 2017-12-11 17:50:33

Below is generated by plot.py at 2017-12-11 21:35:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 29.94 Mbit/s

95th percentile per-packet one-way delay: 140.878 ms

Loss rate: 0.95%

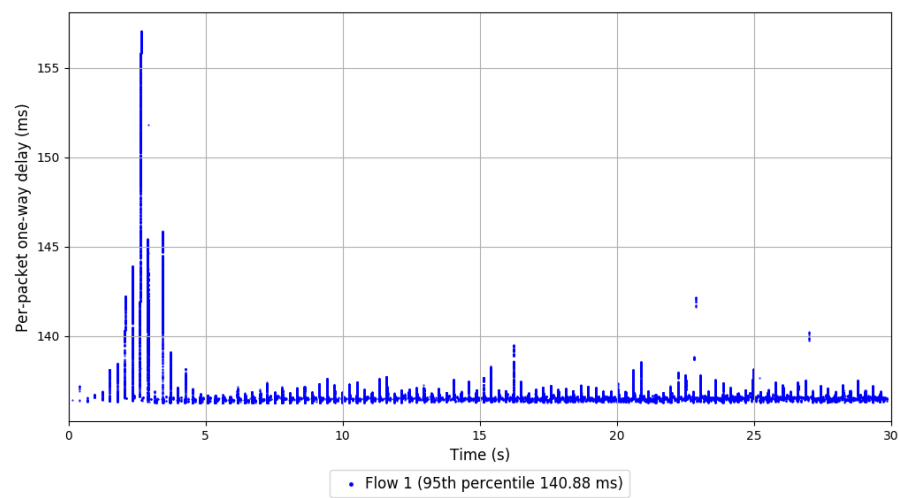
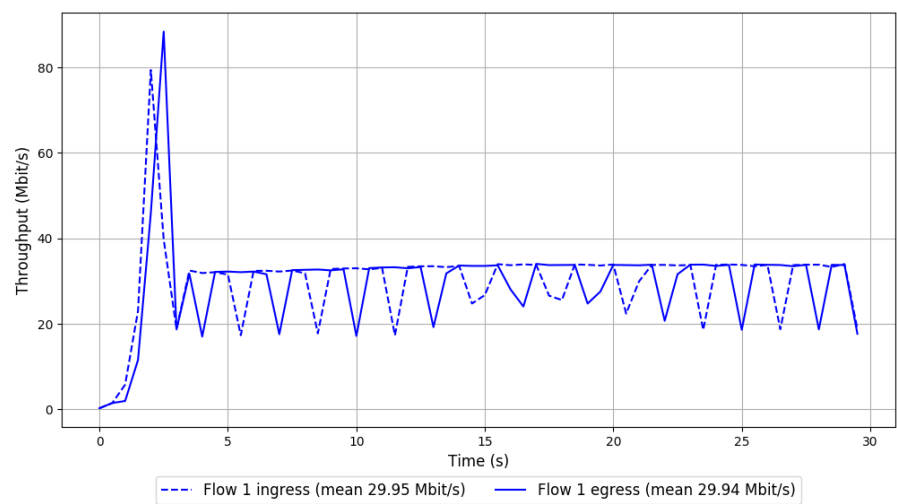
-- Flow 1:

Average throughput: 29.94 Mbit/s

95th percentile per-packet one-way delay: 140.878 ms

Loss rate: 0.95%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2017-12-11 18:01:26

End at: 2017-12-11 18:01:56

Below is generated by plot.py at 2017-12-11 21:35:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 45.33 Mbit/s

95th percentile per-packet one-way delay: 137.698 ms

Loss rate: 0.98%

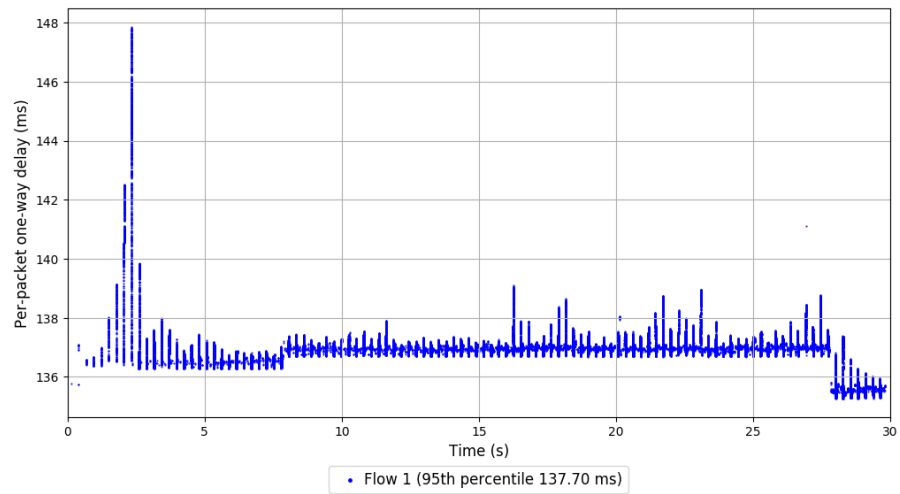
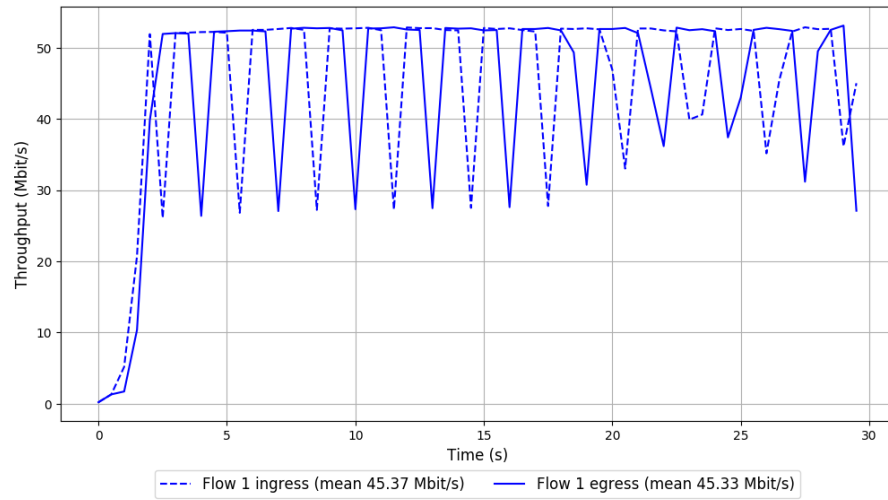
-- Flow 1:

Average throughput: 45.33 Mbit/s

95th percentile per-packet one-way delay: 137.698 ms

Loss rate: 0.98%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2017-12-11 18:12:50

End at: 2017-12-11 18:13:20

Below is generated by plot.py at 2017-12-11 21:35:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 32.46 Mbit/s

95th percentile per-packet one-way delay: 144.540 ms

Loss rate: 0.95%

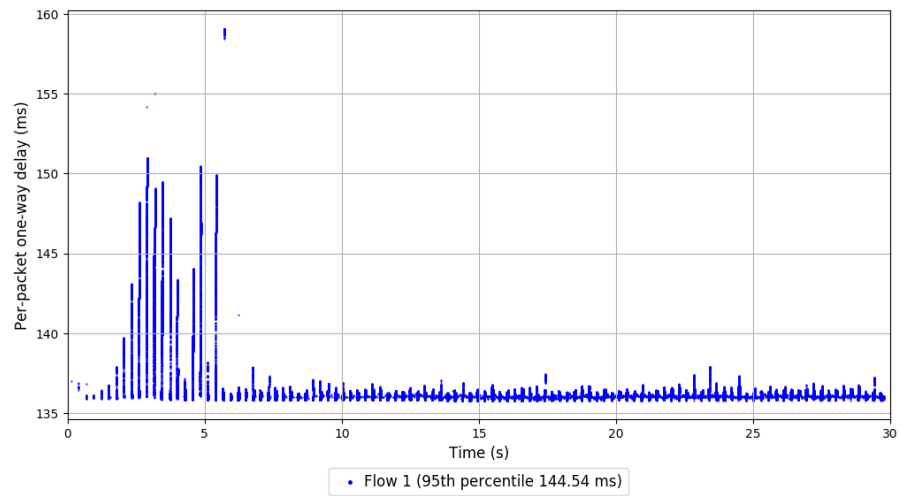
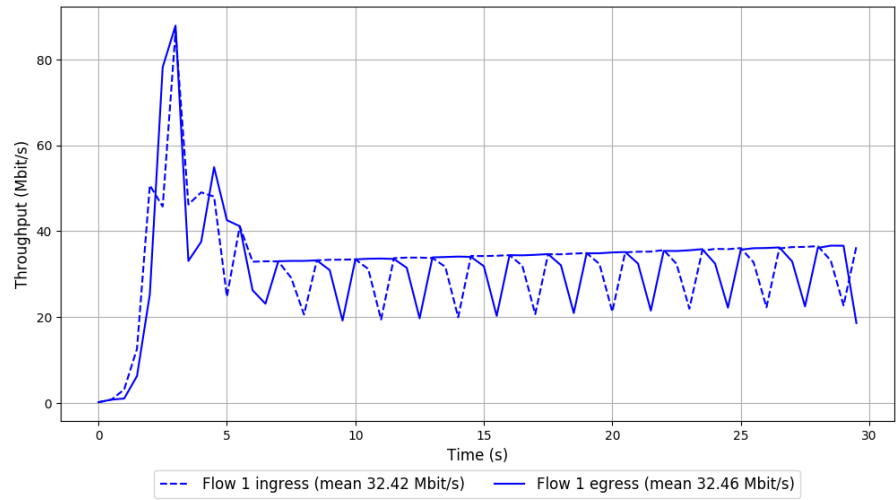
-- Flow 1:

Average throughput: 32.46 Mbit/s

95th percentile per-packet one-way delay: 144.540 ms

Loss rate: 0.95%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2017-12-11 18:24:31

End at: 2017-12-11 18:25:01

Below is generated by plot.py at 2017-12-11 21:35:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 53.06 Mbit/s

95th percentile per-packet one-way delay: 137.070 ms

Loss rate: 0.99%

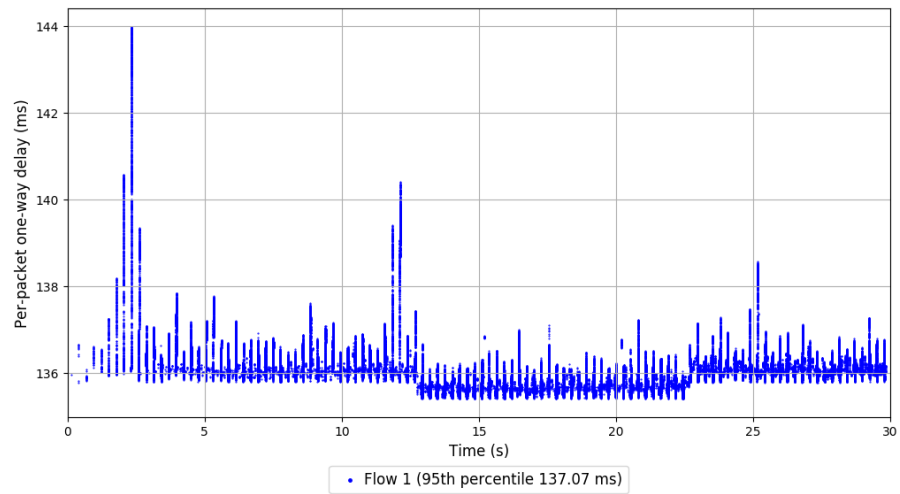
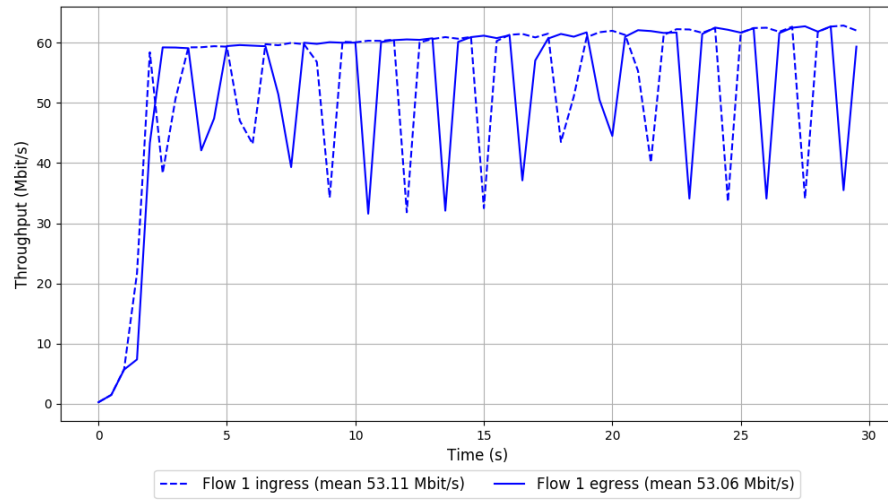
-- Flow 1:

Average throughput: 53.06 Mbit/s

95th percentile per-packet one-way delay: 137.070 ms

Loss rate: 0.99%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2017-12-11 18:36:04

End at: 2017-12-11 18:36:34

Below is generated by plot.py at 2017-12-11 21:35:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 35.26 Mbit/s

95th percentile per-packet one-way delay: 141.062 ms

Loss rate: 0.98%

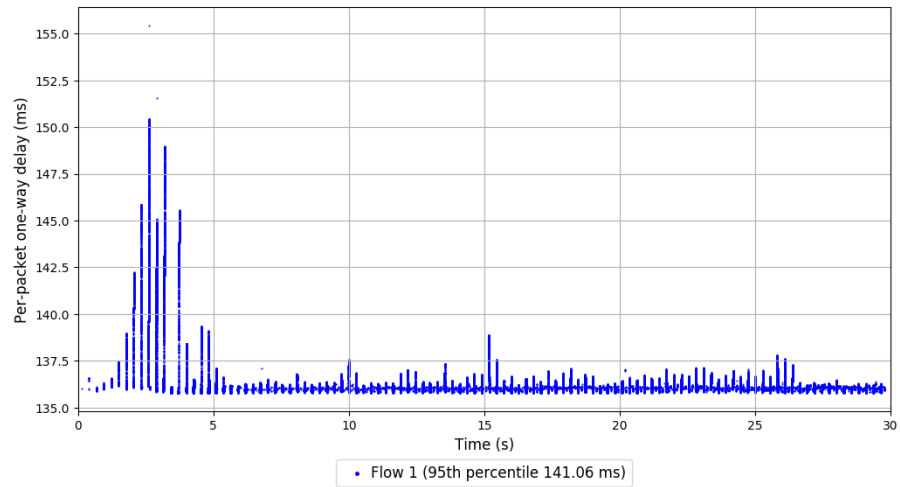
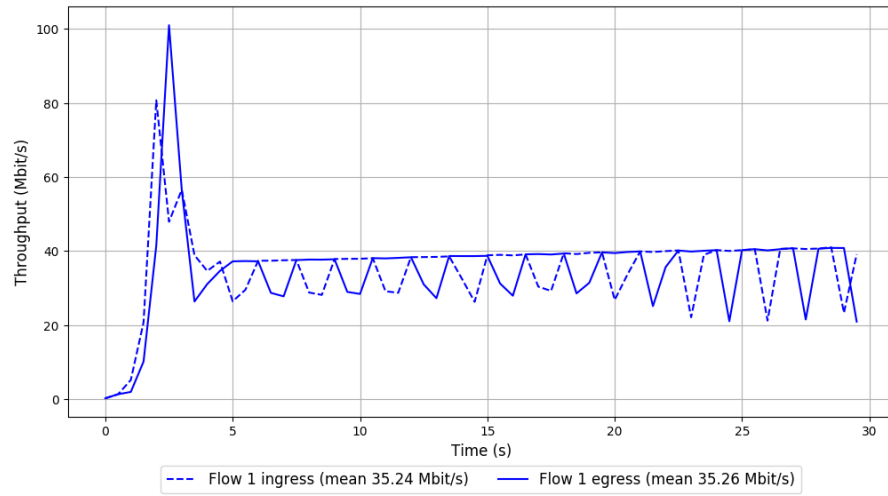
-- Flow 1:

Average throughput: 35.26 Mbit/s

95th percentile per-packet one-way delay: 141.062 ms

Loss rate: 0.98%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2017-12-11 18:47:32

End at: 2017-12-11 18:48:02

Below is generated by plot.py at 2017-12-11 21:35:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 67.81 Mbit/s

95th percentile per-packet one-way delay: 146.009 ms

Loss rate: 0.65%

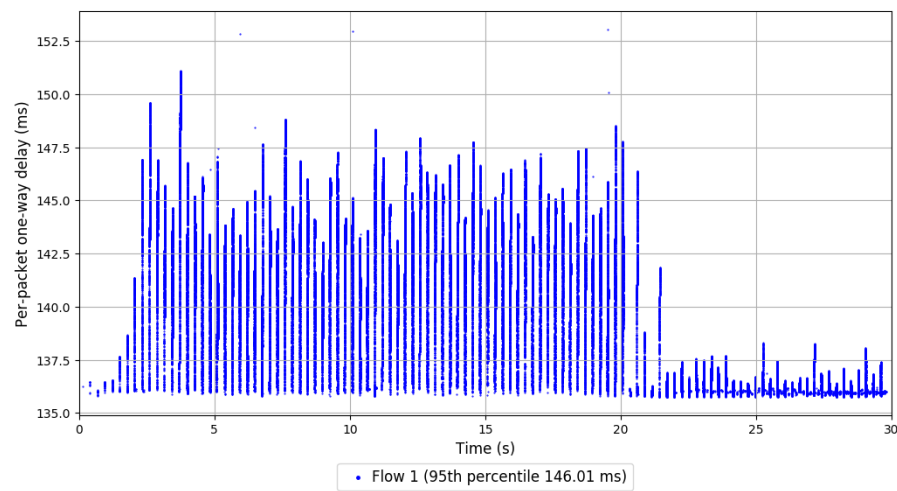
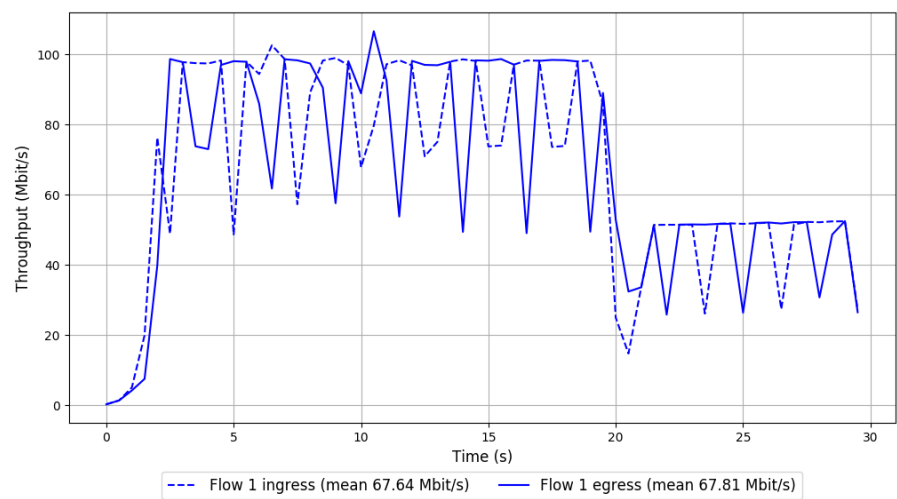
-- Flow 1:

Average throughput: 67.81 Mbit/s

95th percentile per-packet one-way delay: 146.009 ms

Loss rate: 0.65%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2017-12-11 18:59:02

End at: 2017-12-11 18:59:32

Below is generated by plot.py at 2017-12-11 21:35:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 64.48 Mbit/s

95th percentile per-packet one-way delay: 139.640 ms

Loss rate: 0.31%

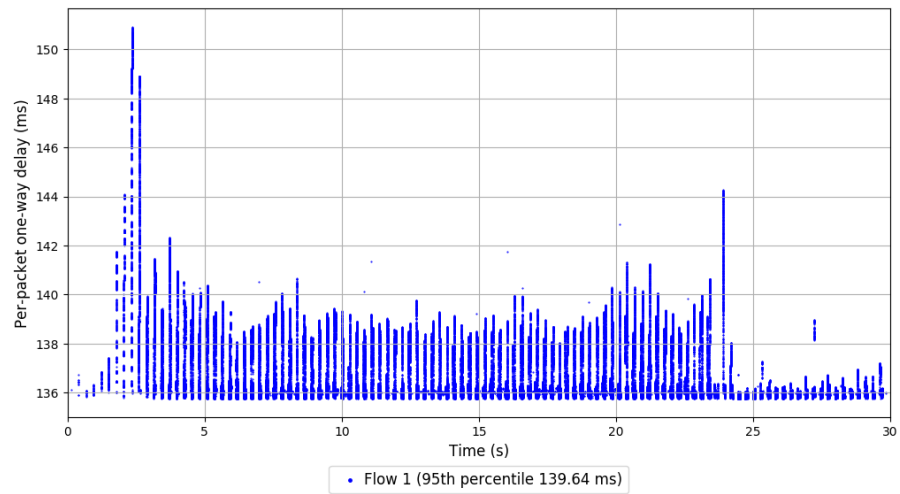
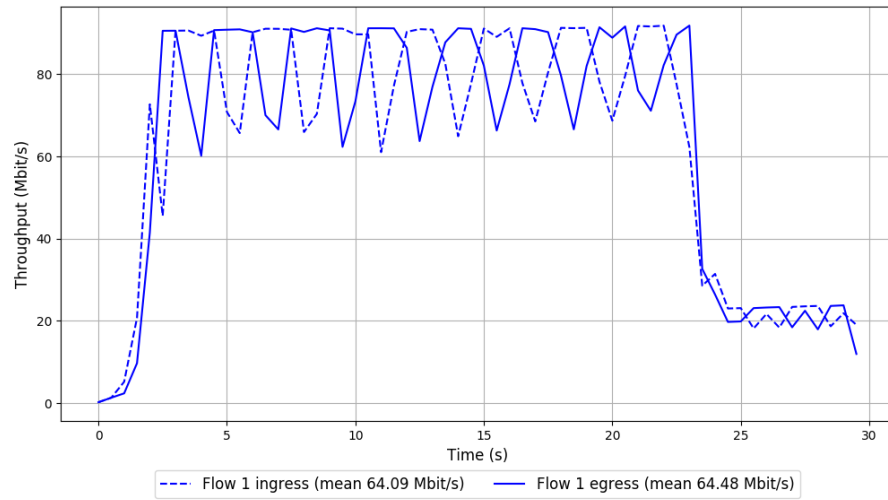
-- Flow 1:

Average throughput: 64.48 Mbit/s

95th percentile per-packet one-way delay: 139.640 ms

Loss rate: 0.31%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2017-12-11 19:10:24

End at: 2017-12-11 19:10:54

Below is generated by plot.py at 2017-12-11 21:35:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 34.44 Mbit/s

95th percentile per-packet one-way delay: 146.604 ms

Loss rate: 0.62%

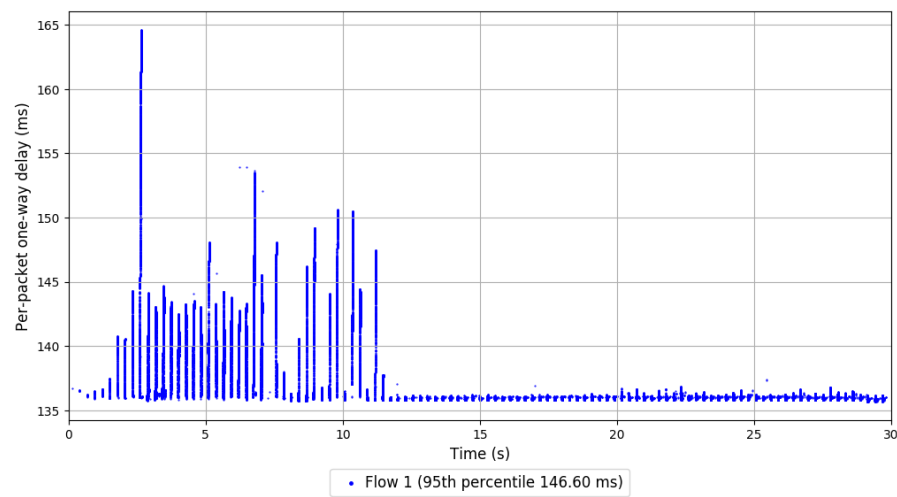
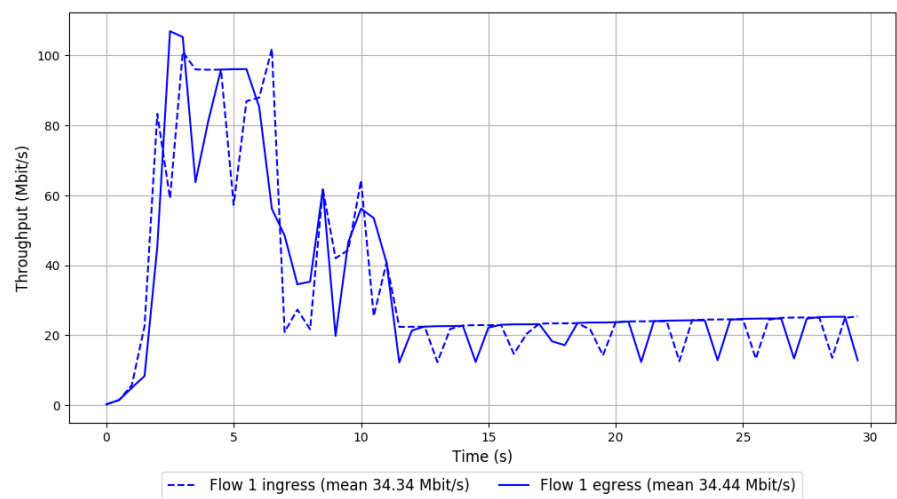
-- Flow 1:

Average throughput: 34.44 Mbit/s

95th percentile per-packet one-way delay: 146.604 ms

Loss rate: 0.62%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2017-12-11 17:19:11

End at: 2017-12-11 17:19:41

Below is generated by plot.py at 2017-12-11 21:36:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 120.24 Mbit/s

95th percentile per-packet one-way delay: 247.223 ms

Loss rate: 3.82%

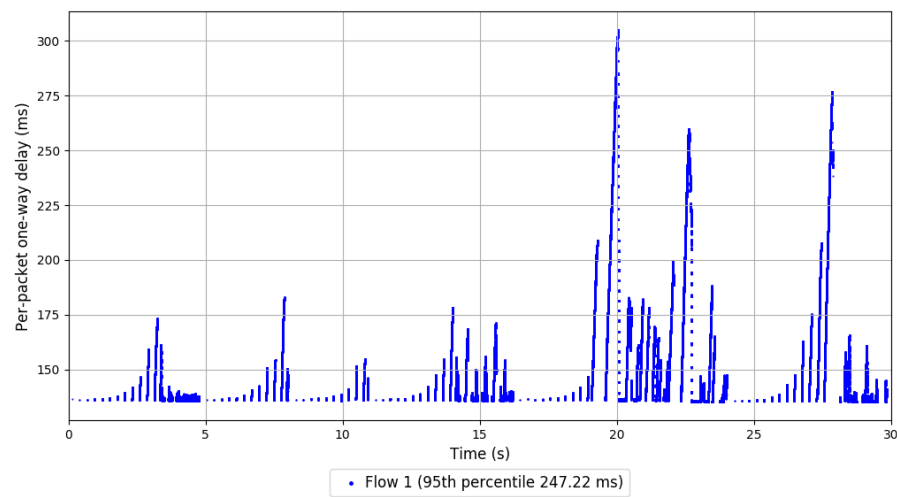
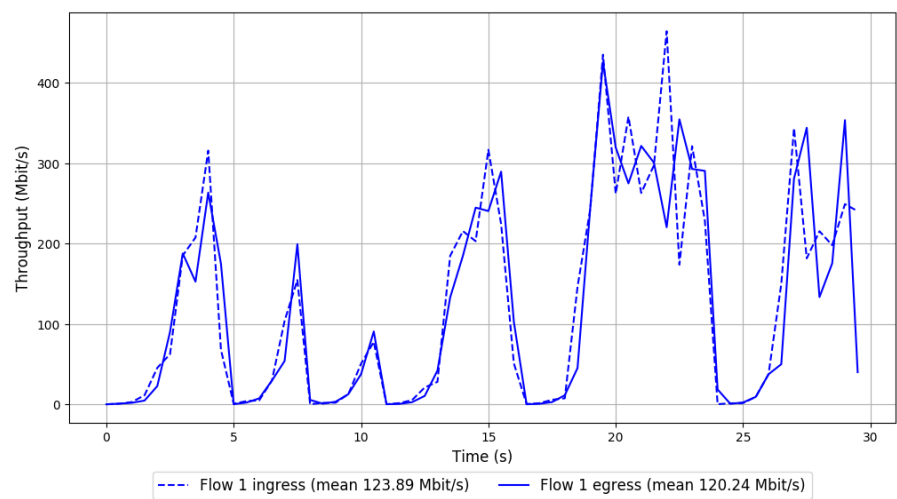
-- Flow 1:

Average throughput: 120.24 Mbit/s

95th percentile per-packet one-way delay: 247.223 ms

Loss rate: 3.82%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2017-12-11 17:30:50

End at: 2017-12-11 17:31:20

Below is generated by plot.py at 2017-12-11 21:37:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 182.09 Mbit/s

95th percentile per-packet one-way delay: 202.559 ms

Loss rate: 1.15%

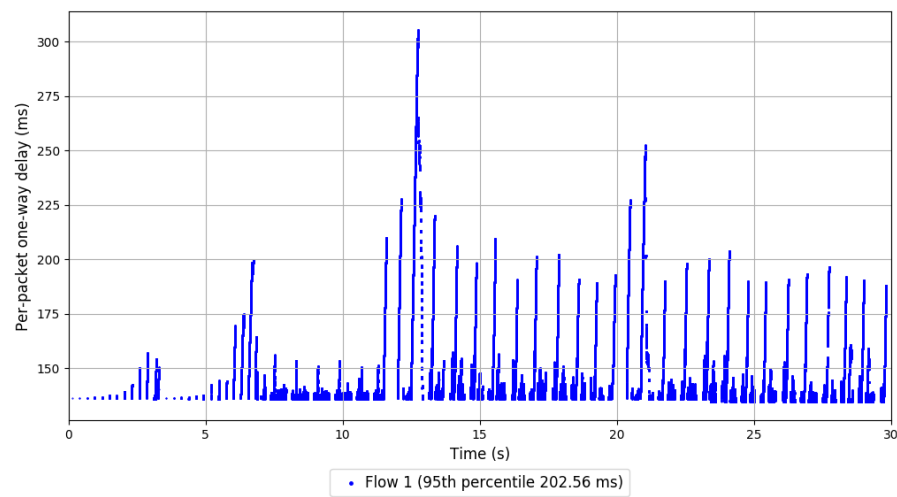
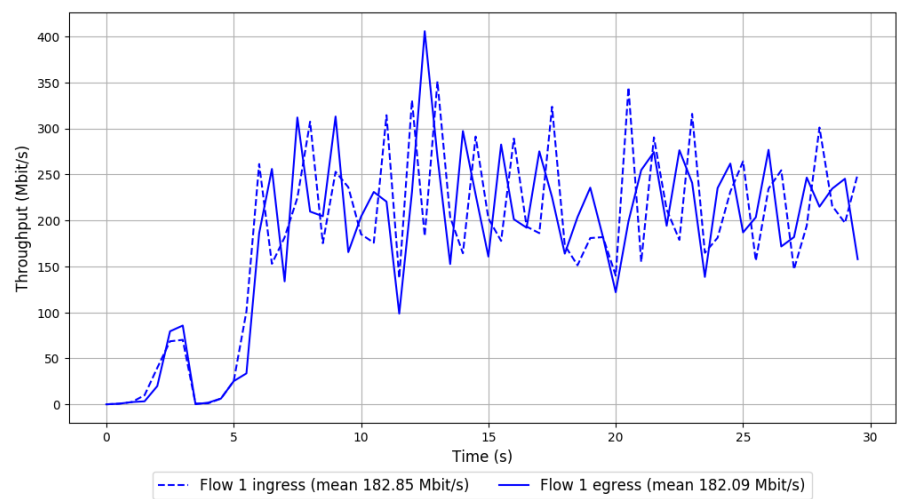
-- Flow 1:

Average throughput: 182.09 Mbit/s

95th percentile per-packet one-way delay: 202.559 ms

Loss rate: 1.15%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2017-12-11 17:42:21

End at: 2017-12-11 17:42:51

Below is generated by plot.py at 2017-12-11 21:37:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 155.39 Mbit/s

95th percentile per-packet one-way delay: 159.748 ms

Loss rate: 1.09%

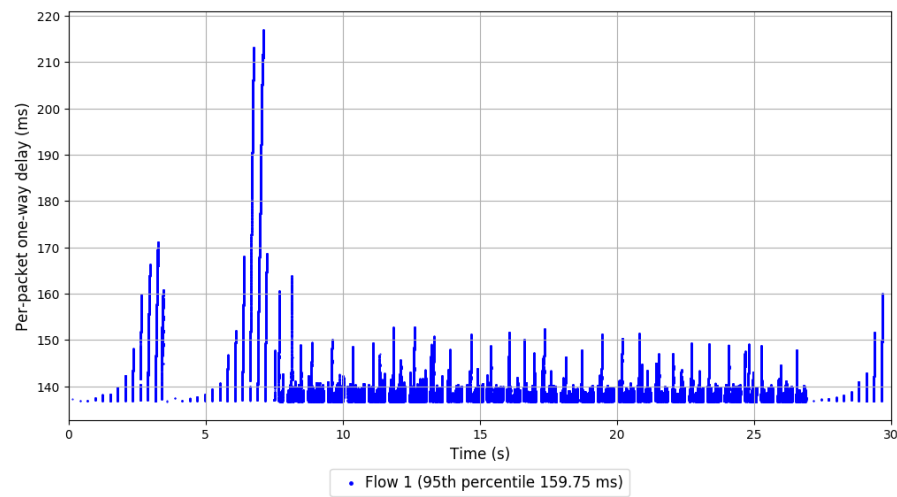
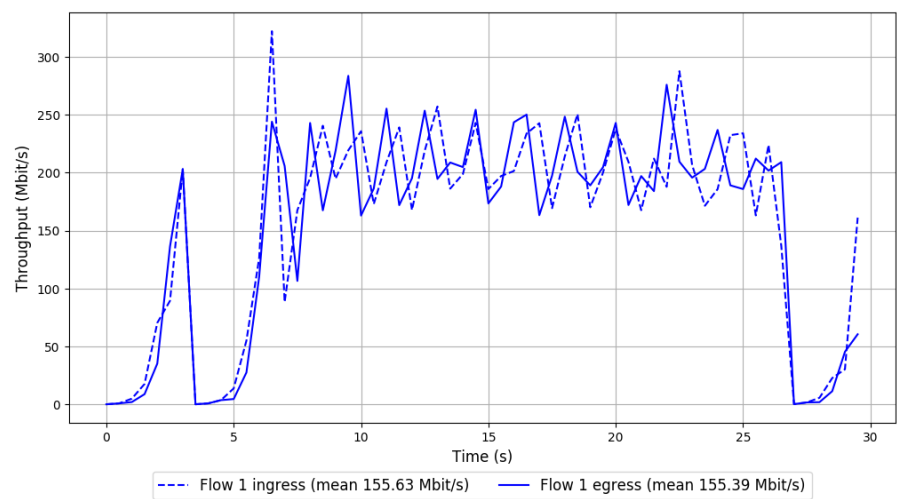
-- Flow 1:

Average throughput: 155.39 Mbit/s

95th percentile per-packet one-way delay: 159.748 ms

Loss rate: 1.09%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2017-12-11 17:53:54

End at: 2017-12-11 17:54:24

Below is generated by plot.py at 2017-12-11 21:38:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 197.92 Mbit/s

95th percentile per-packet one-way delay: 155.389 ms

Loss rate: 0.01%

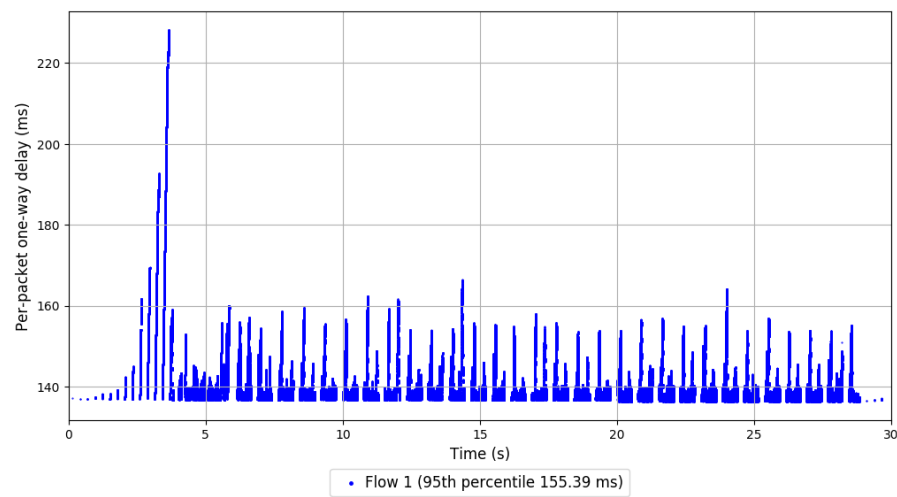
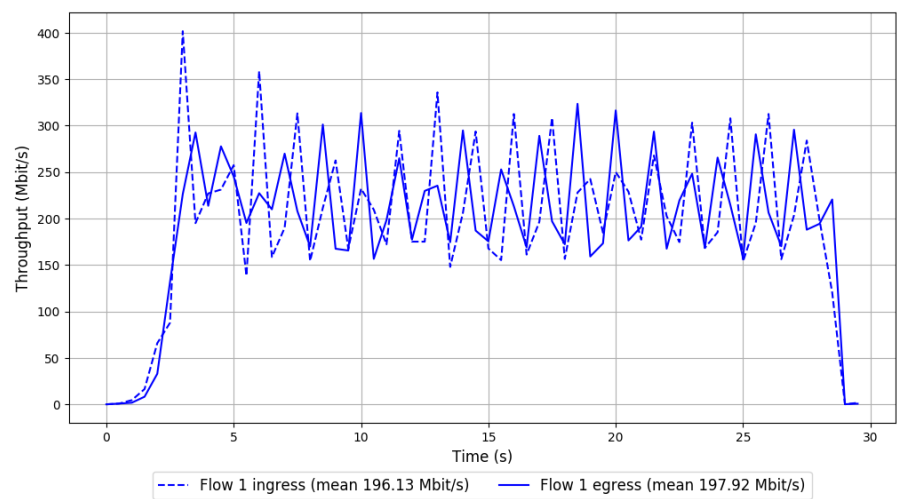
-- Flow 1:

Average throughput: 197.92 Mbit/s

95th percentile per-packet one-way delay: 155.389 ms

Loss rate: 0.01%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2017-12-11 18:05:17

End at: 2017-12-11 18:05:47

Below is generated by plot.py at 2017-12-11 21:38:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 173.18 Mbit/s

95th percentile per-packet one-way delay: 196.199 ms

Loss rate: 0.71%

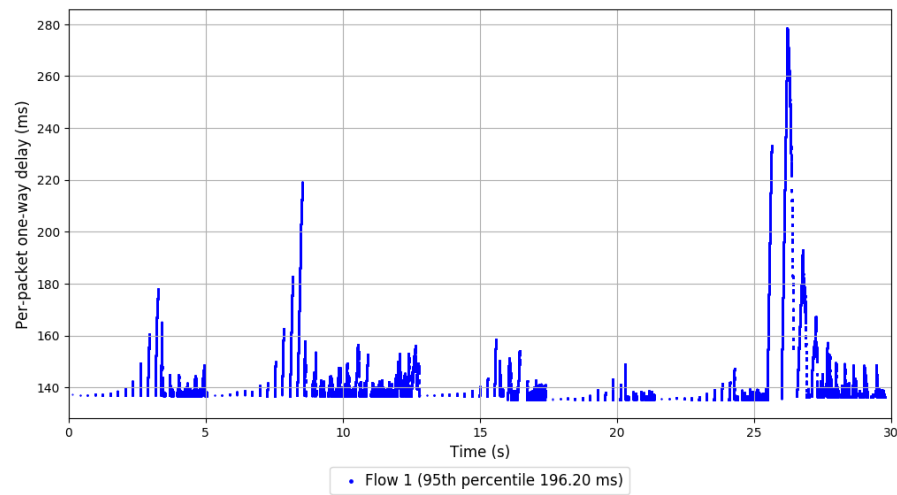
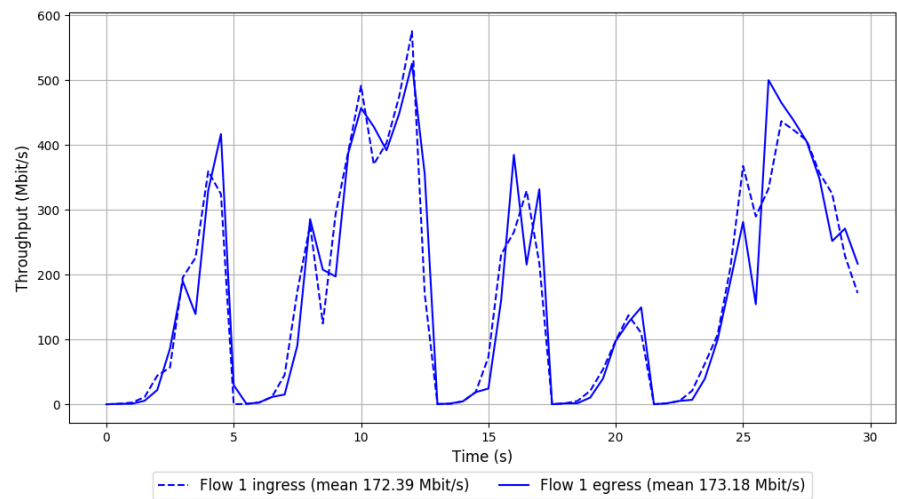
-- Flow 1:

Average throughput: 173.18 Mbit/s

95th percentile per-packet one-way delay: 196.199 ms

Loss rate: 0.71%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2017-12-11 18:16:43

End at: 2017-12-11 18:17:13

Below is generated by plot.py at 2017-12-11 21:38:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 195.66 Mbit/s

95th percentile per-packet one-way delay: 170.873 ms

Loss rate: 0.80%

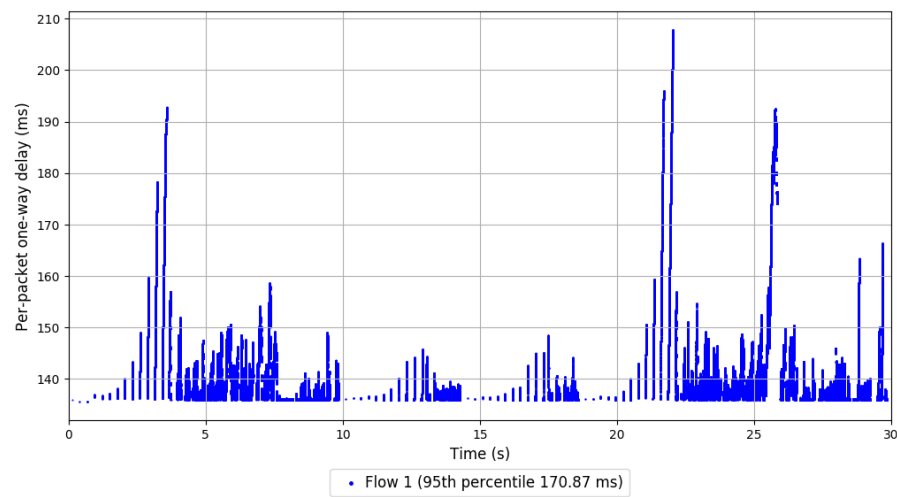
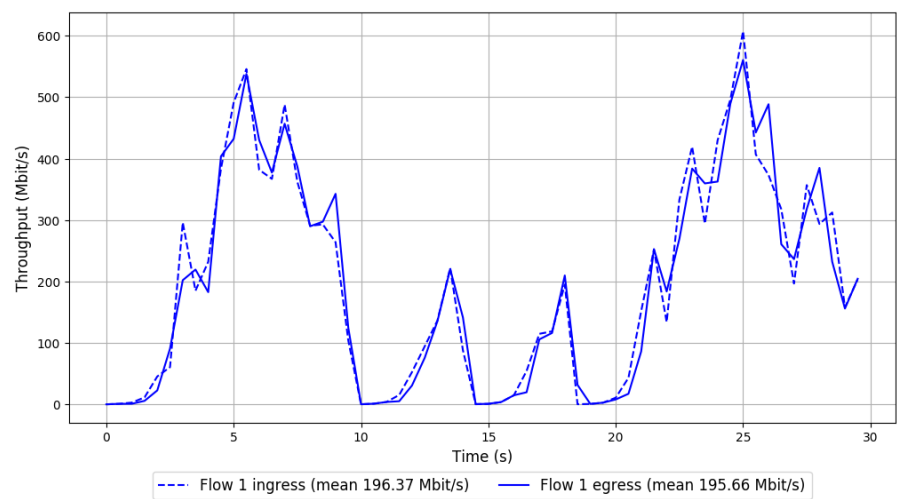
-- Flow 1:

Average throughput: 195.66 Mbit/s

95th percentile per-packet one-way delay: 170.873 ms

Loss rate: 0.80%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2017-12-11 18:28:24

End at: 2017-12-11 18:28:54

Below is generated by plot.py at 2017-12-11 21:39:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 209.57 Mbit/s

95th percentile per-packet one-way delay: 205.692 ms

Loss rate: 1.01%

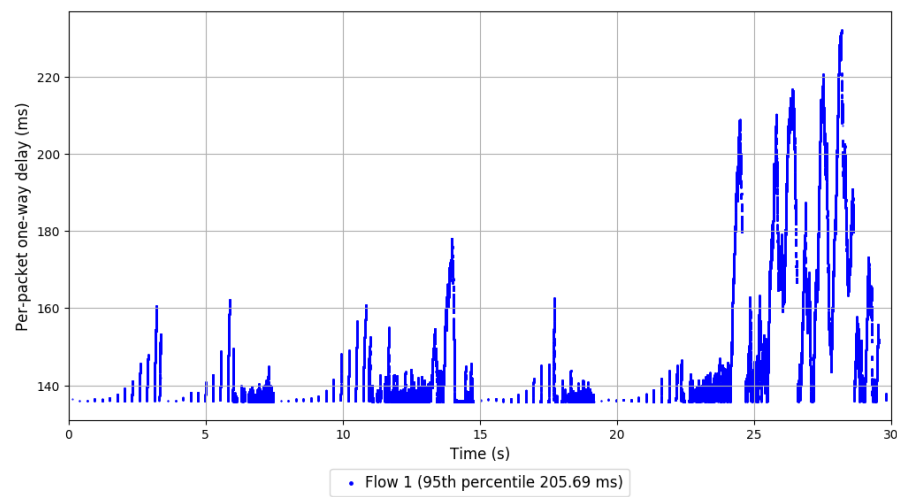
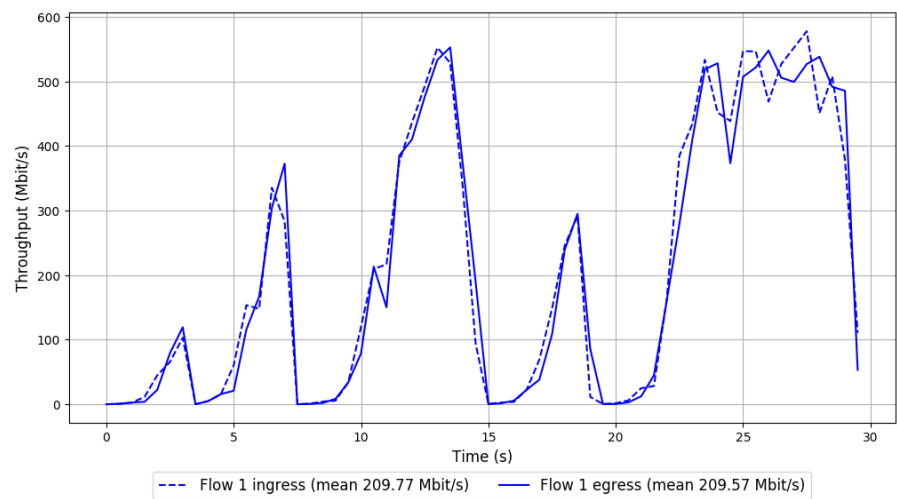
-- Flow 1:

Average throughput: 209.57 Mbit/s

95th percentile per-packet one-way delay: 205.692 ms

Loss rate: 1.01%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2017-12-11 18:39:56

End at: 2017-12-11 18:40:26

Below is generated by plot.py at 2017-12-11 21:39:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 97.77 Mbit/s

95th percentile per-packet one-way delay: 249.521 ms

Loss rate: 6.15%

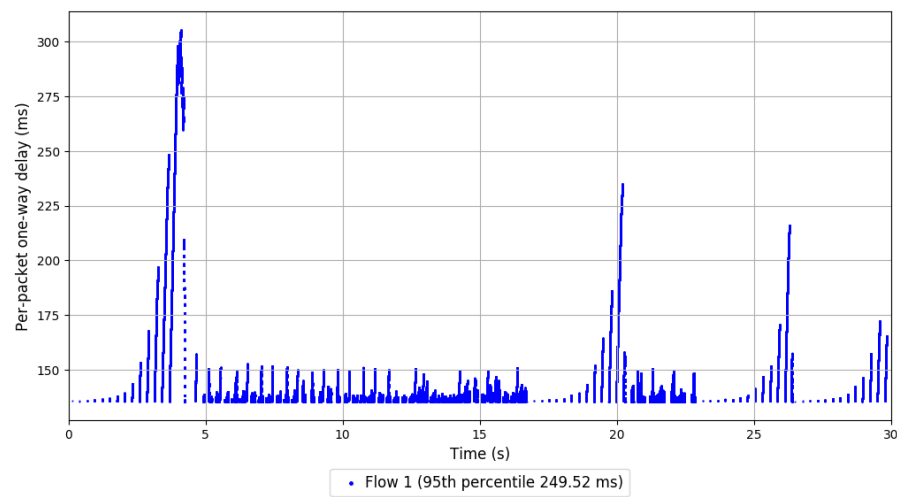
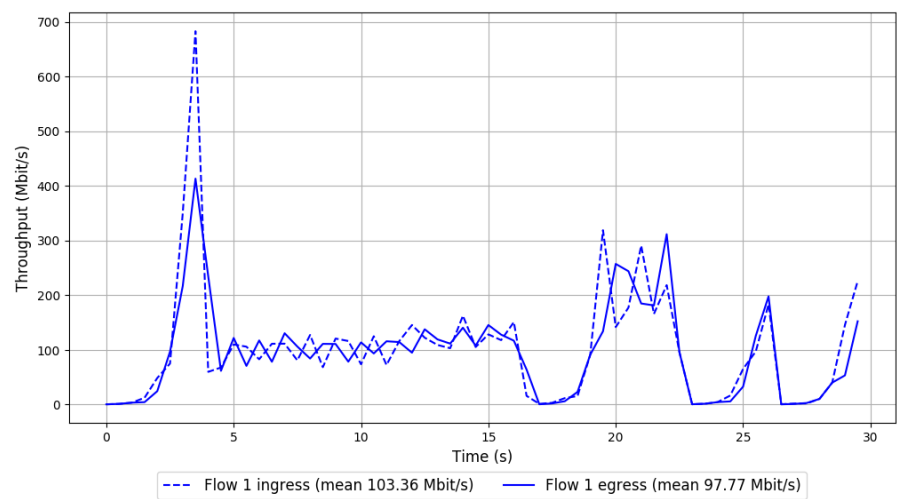
-- Flow 1:

Average throughput: 97.77 Mbit/s

95th percentile per-packet one-way delay: 249.521 ms

Loss rate: 6.15%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2017-12-11 18:51:26

End at: 2017-12-11 18:51:56

Below is generated by plot.py at 2017-12-11 21:39:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 169.63 Mbit/s

95th percentile per-packet one-way delay: 151.913 ms

Loss rate: 2.26%

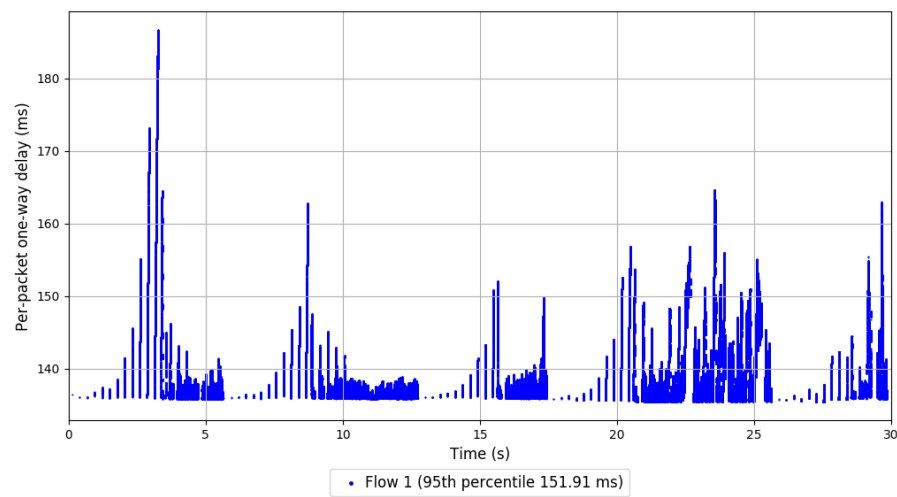
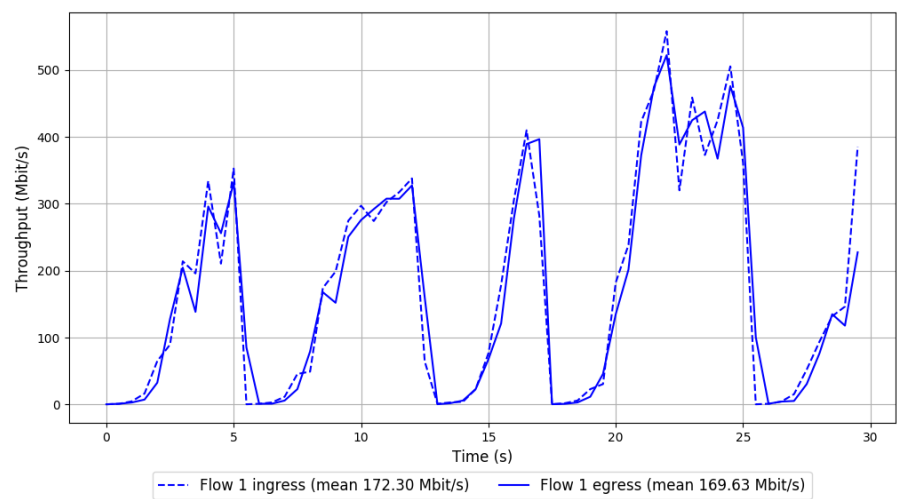
-- Flow 1:

Average throughput: 169.63 Mbit/s

95th percentile per-packet one-way delay: 151.913 ms

Loss rate: 2.26%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2017-12-11 19:02:54

End at: 2017-12-11 19:03:24

Below is generated by plot.py at 2017-12-11 21:39:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 117.05 Mbit/s

95th percentile per-packet one-way delay: 163.197 ms

Loss rate: 3.20%

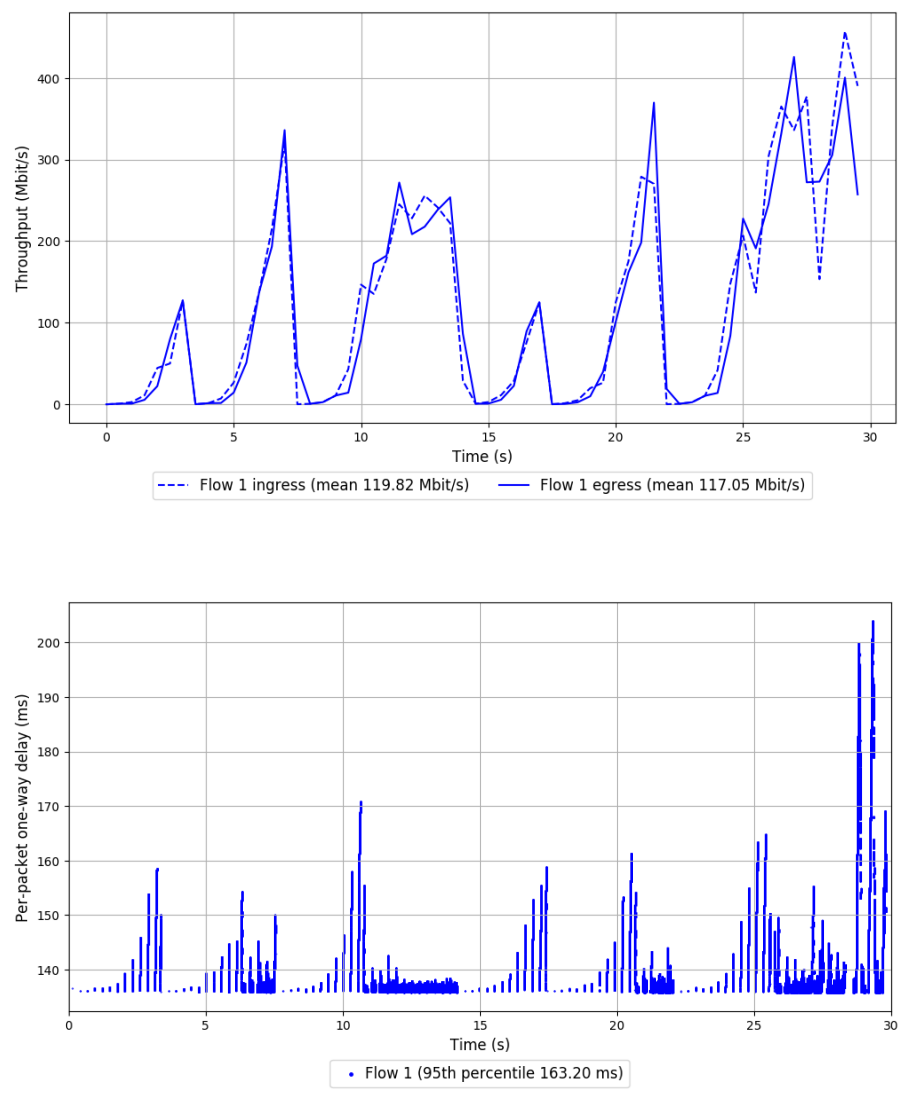
-- Flow 1:

Average throughput: 117.05 Mbit/s

95th percentile per-packet one-way delay: 163.197 ms

Loss rate: 3.20%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2017-12-11 17:25:19

End at: 2017-12-11 17:25:49

Below is generated by plot.py at 2017-12-11 21:39:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 69.79 Mbit/s

95th percentile per-packet one-way delay: 136.073 ms

Loss rate: 1.26%

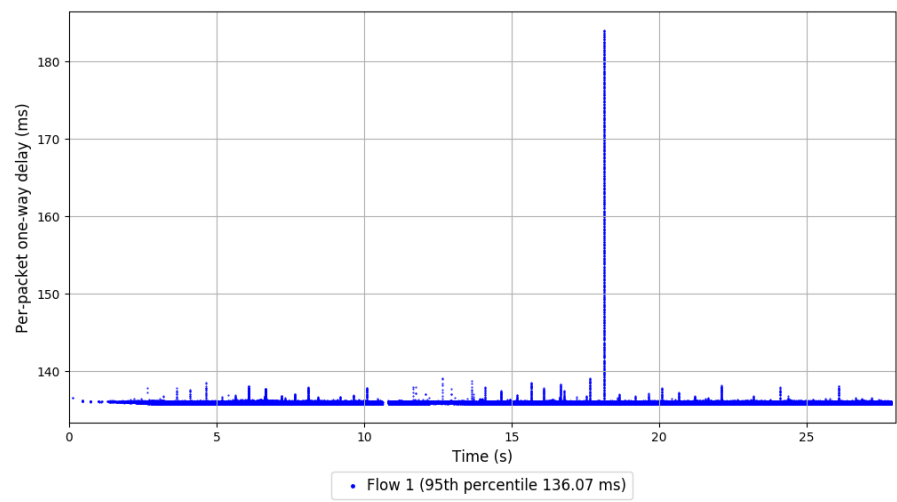
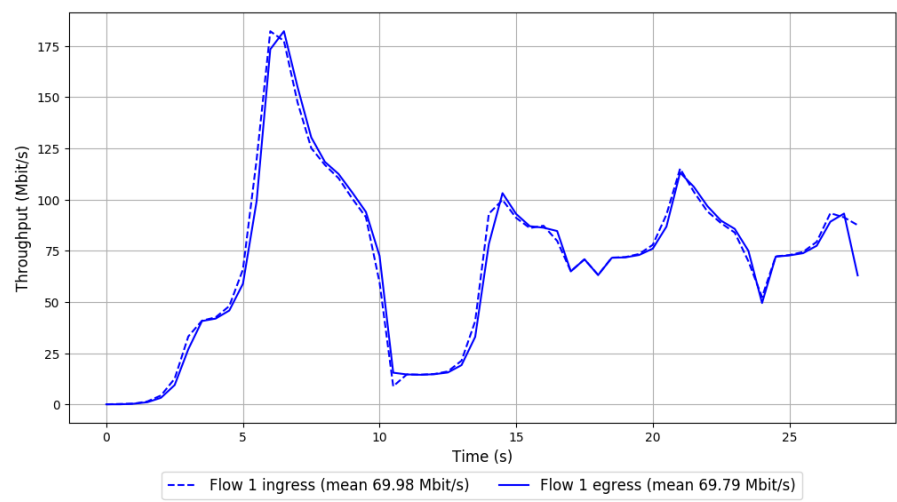
-- Flow 1:

Average throughput: 69.79 Mbit/s

95th percentile per-packet one-way delay: 136.073 ms

Loss rate: 1.26%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2017-12-11 17:36:53

End at: 2017-12-11 17:37:23

Below is generated by plot.py at 2017-12-11 21:40:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.51 Mbit/s

95th percentile per-packet one-way delay: 136.609 ms

Loss rate: 0.68%

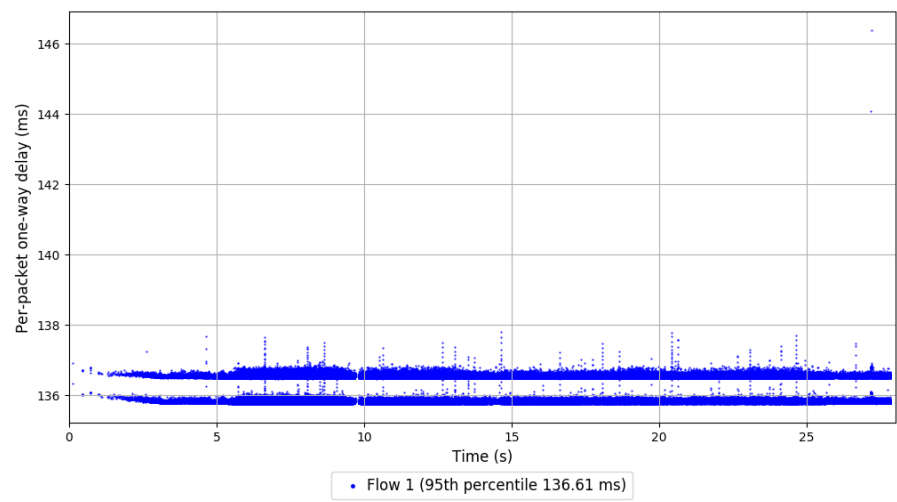
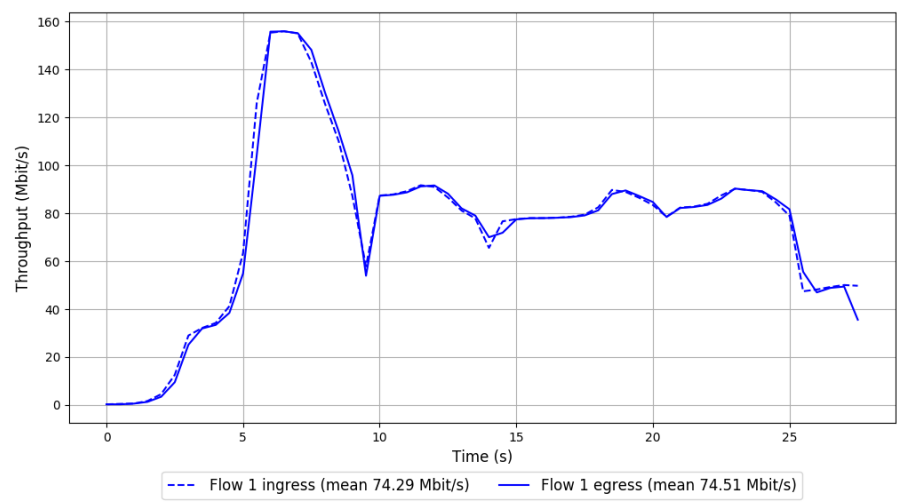
-- Flow 1:

Average throughput: 74.51 Mbit/s

95th percentile per-packet one-way delay: 136.609 ms

Loss rate: 0.68%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2017-12-11 17:48:25

End at: 2017-12-11 17:48:55

Below is generated by plot.py at 2017-12-11 21:40:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.25 Mbit/s

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

Loss rate: 1.11%

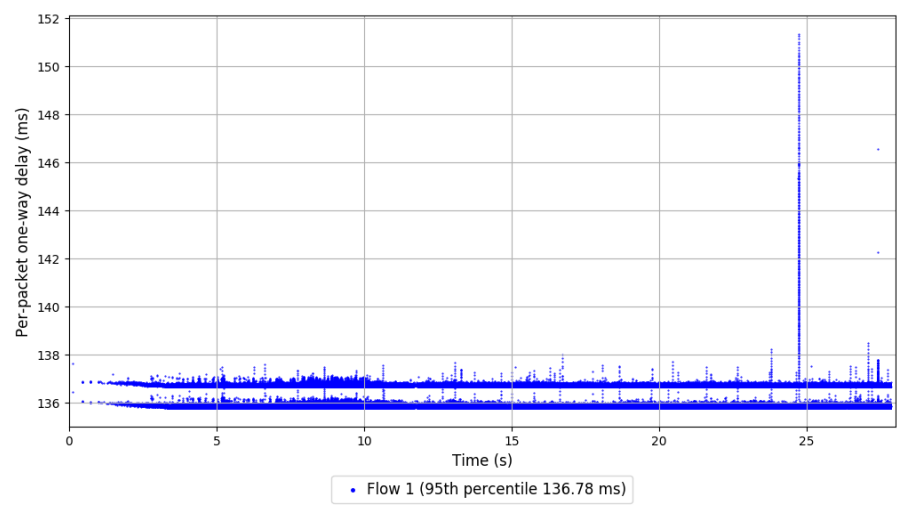
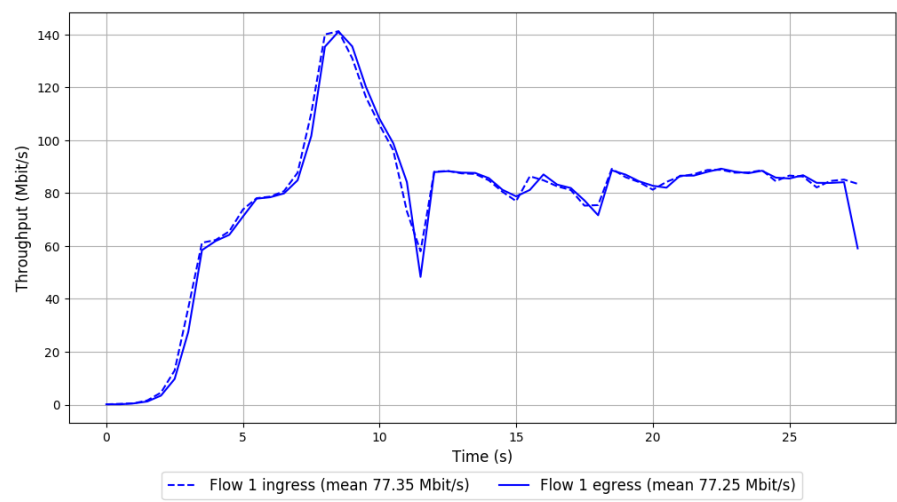
-- Flow 1:

Average throughput: 77.25 Mbit/s

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

Loss rate: 1.11%

Run 3: Report of Copa — Data Link

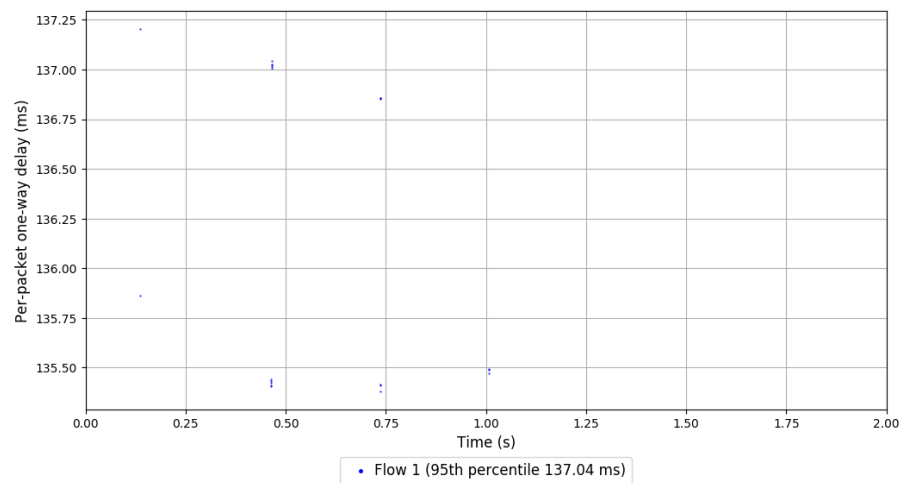
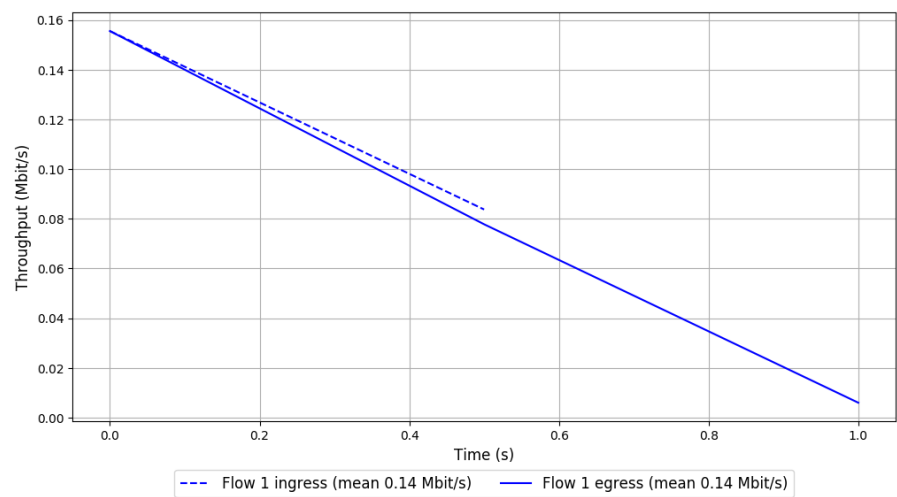


Run 4: Statistics of Copa

Start at: 2017-12-11 17:59:56

End at: 2017-12-11 18:00:26

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

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

End at: 2017-12-11 18:11:42

Below is generated by plot.py at 2017-12-11 21:40:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 67.06 Mbit/s

95th percentile per-packet one-way delay: 136.426 ms

Loss rate: 1.39%

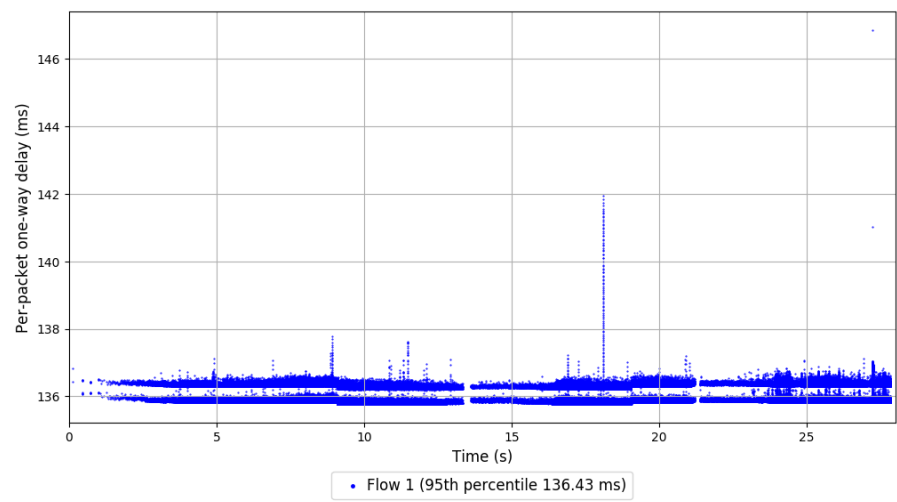
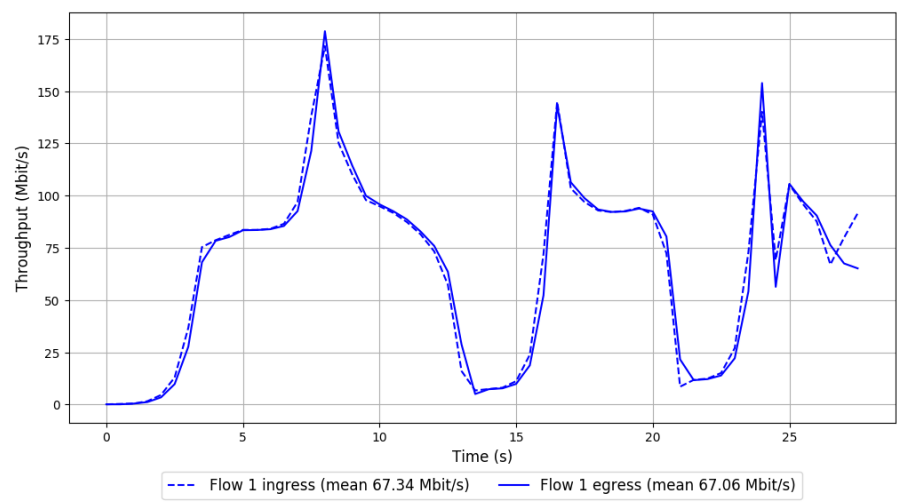
-- Flow 1:

Average throughput: 67.06 Mbit/s

95th percentile per-packet one-way delay: 136.426 ms

Loss rate: 1.39%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2017-12-11 18:22:53

End at: 2017-12-11 18:23:23

Below is generated by plot.py at 2017-12-11 21:40:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 70.90 Mbit/s

95th percentile per-packet one-way delay: 136.865 ms

Loss rate: 0.97%

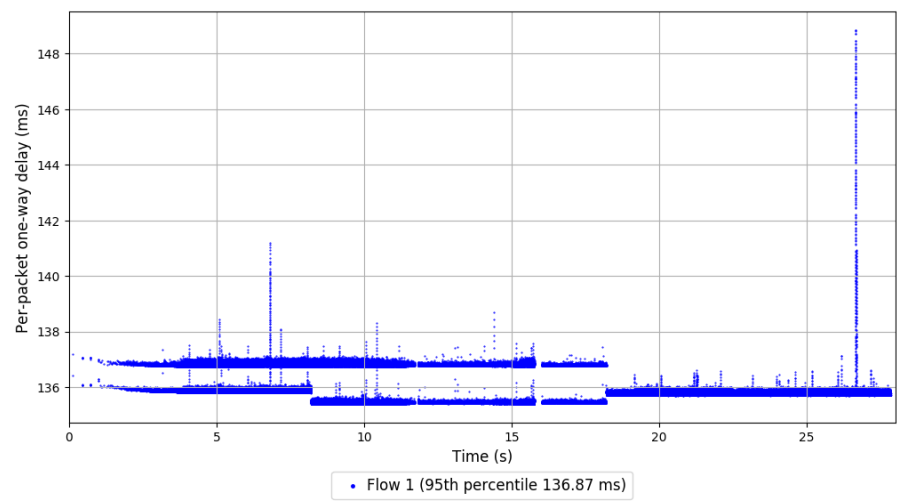
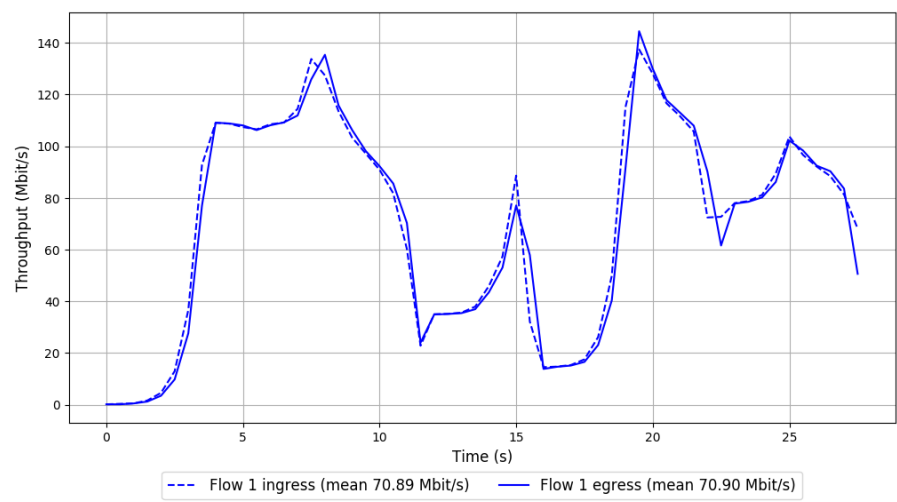
-- Flow 1:

Average throughput: 70.90 Mbit/s

95th percentile per-packet one-way delay: 136.865 ms

Loss rate: 0.97%

Run 6: Report of Copa — Data Link

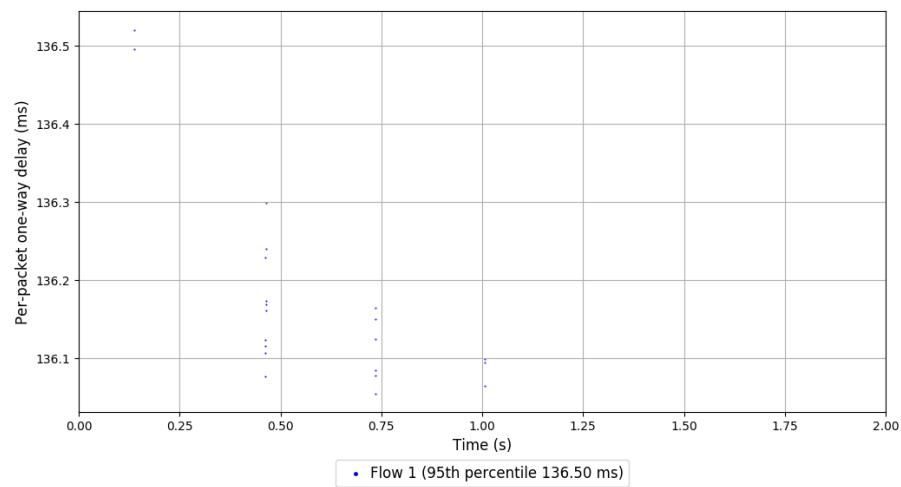
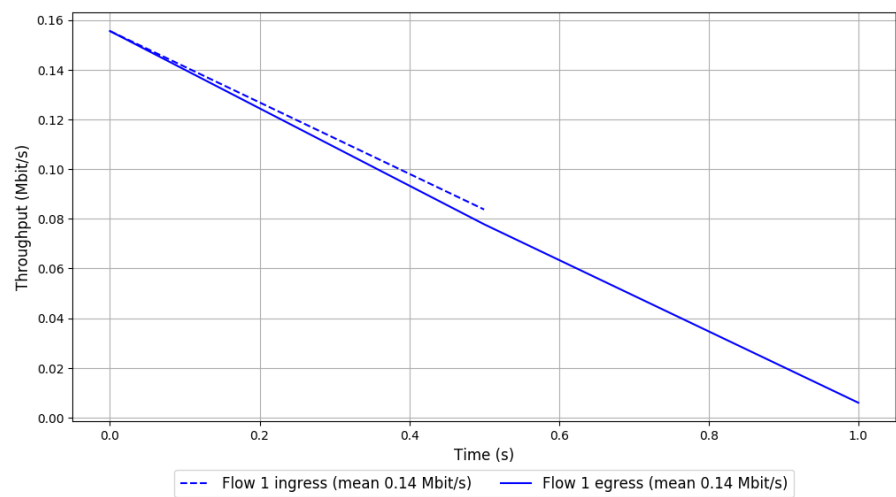


Run 7: Statistics of Copa

Start at: 2017-12-11 18:34:35

End at: 2017-12-11 18:35:05

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2017-12-11 18:45:54

End at: 2017-12-11 18:46:24

Below is generated by plot.py at 2017-12-11 21:41:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.10 Mbit/s

95th percentile per-packet one-way delay: 135.927 ms

Loss rate: 0.90%

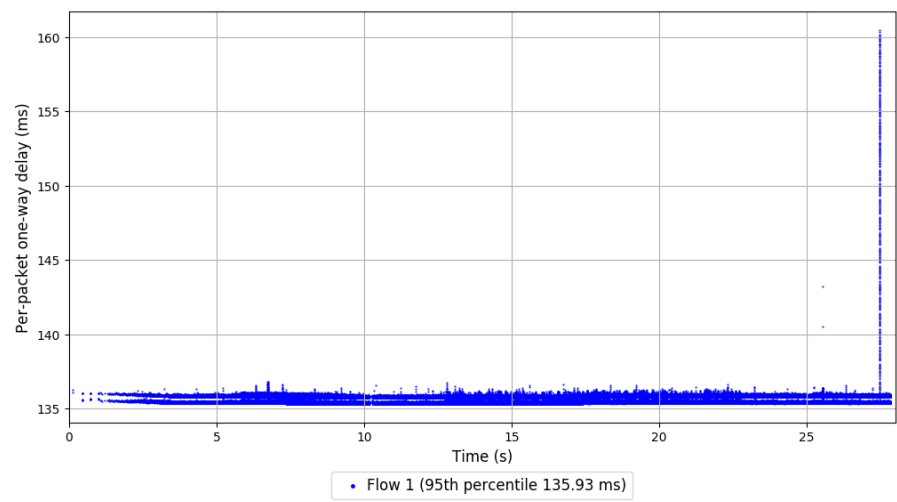
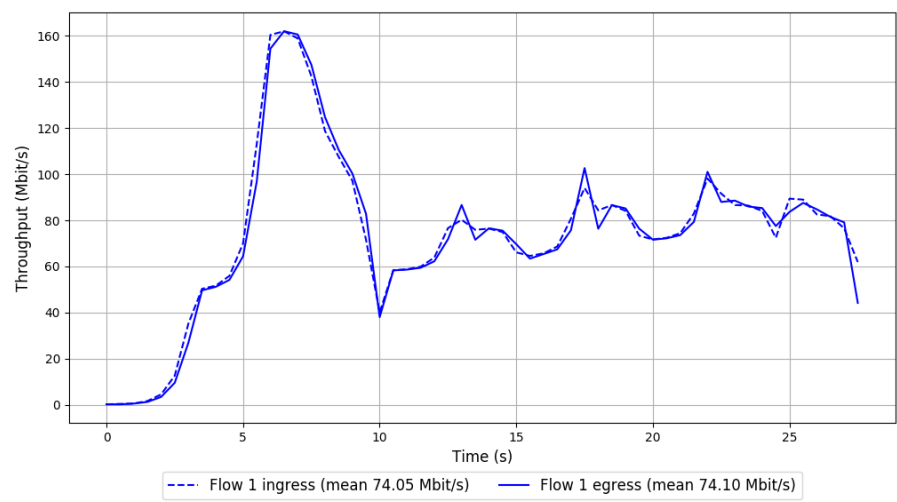
-- Flow 1:

Average throughput: 74.10 Mbit/s

95th percentile per-packet one-way delay: 135.927 ms

Loss rate: 0.90%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2017-12-11 18:57:24

End at: 2017-12-11 18:57:54

Below is generated by plot.py at 2017-12-11 21:41:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.06 Mbit/s

95th percentile per-packet one-way delay: 135.878 ms

Loss rate: 1.13%

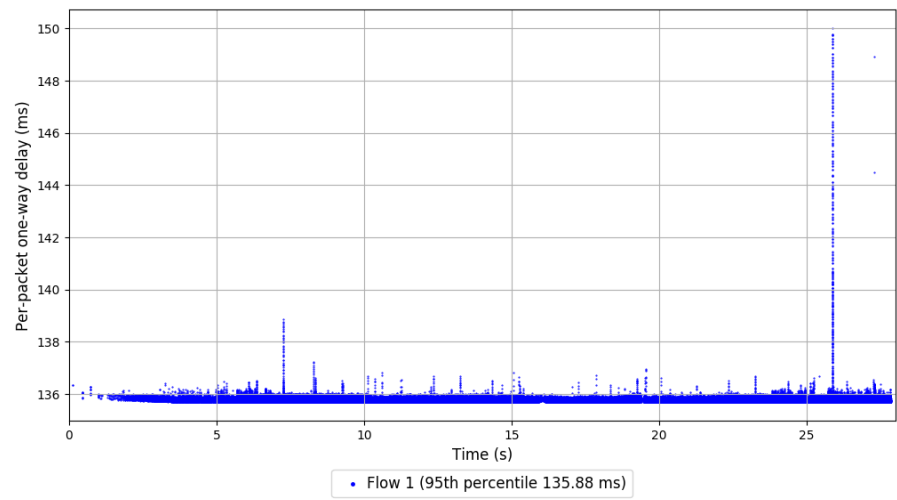
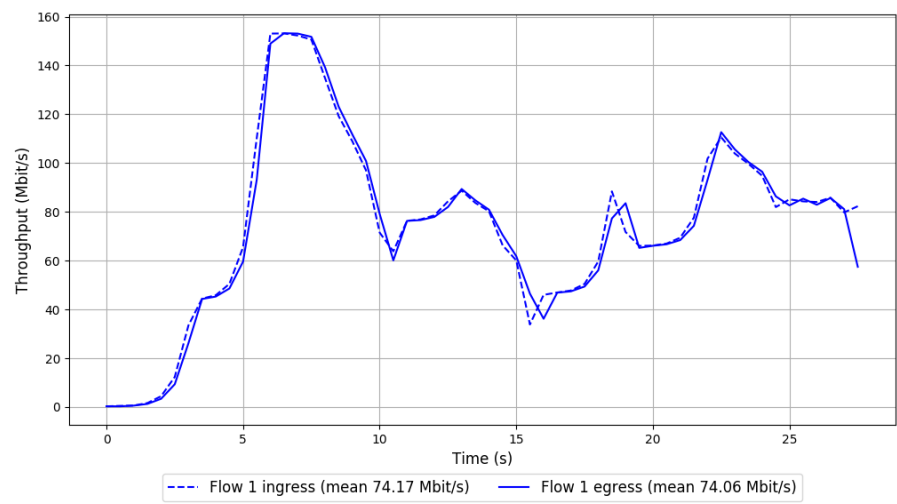
-- Flow 1:

Average throughput: 74.06 Mbit/s

95th percentile per-packet one-way delay: 135.878 ms

Loss rate: 1.13%

Run 9: Report of Copa — Data Link

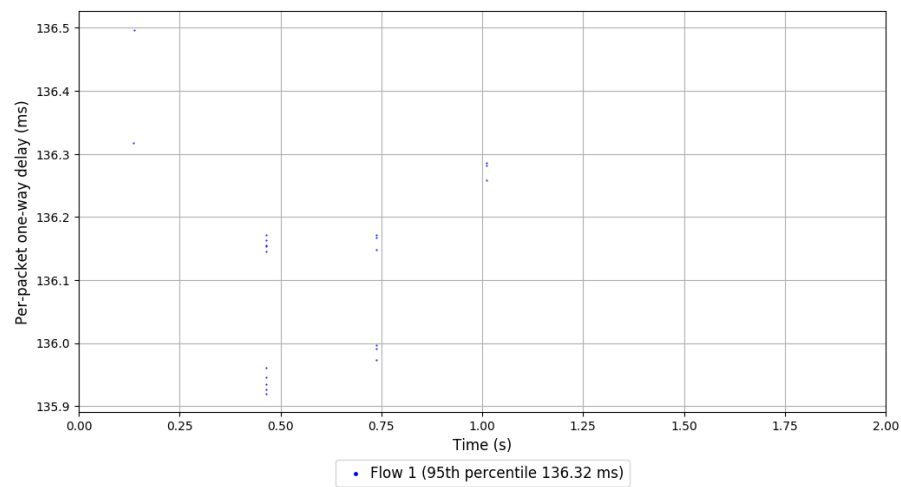
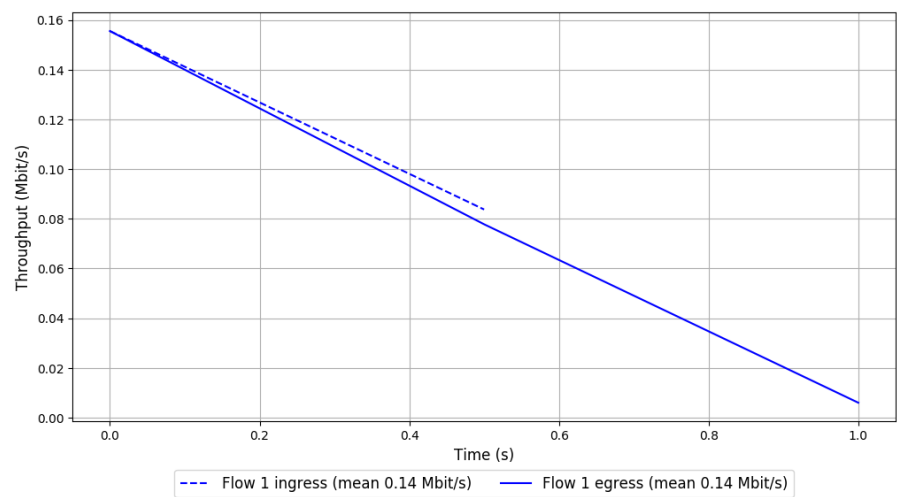


Run 10: Statistics of Copa

Start at: 2017-12-11 19:08:55

End at: 2017-12-11 19:09:25

Run 10: Report of Copa — Data Link

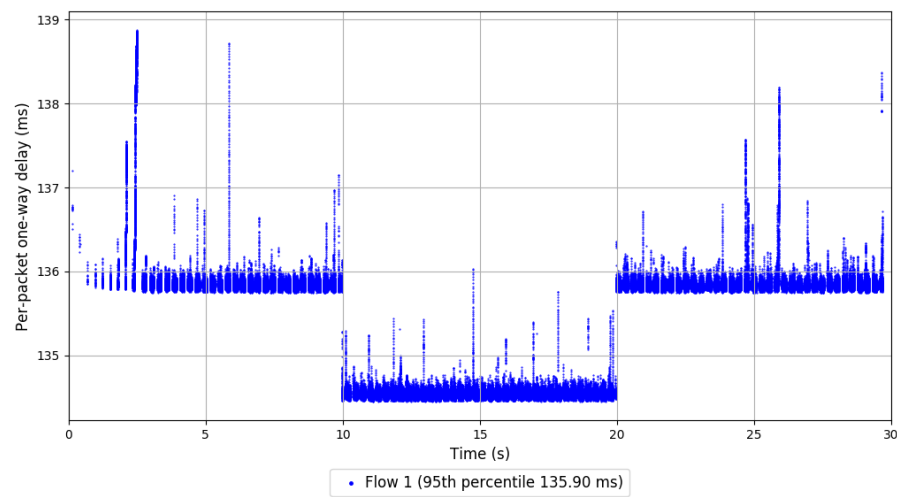
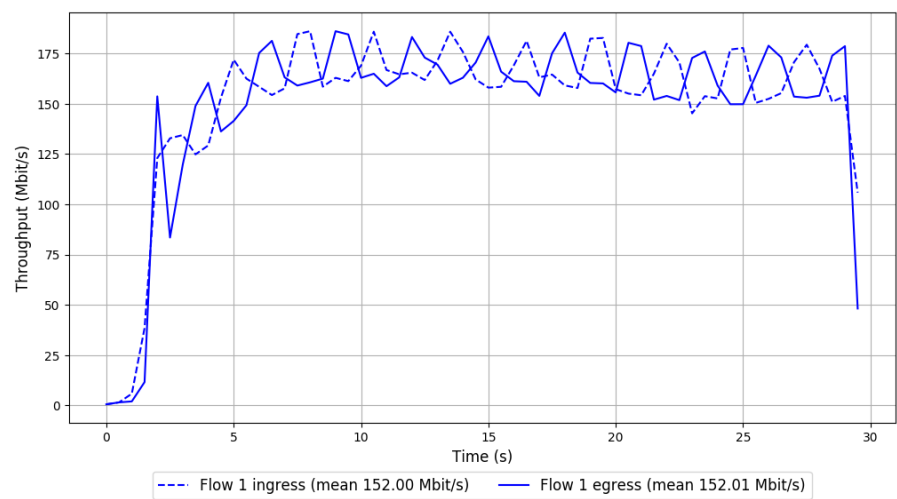


```
Run 1: Statistics of Indigo

Start at: 2017-12-11 17:27:43
End at: 2017-12-11 17:28:13

# Below is generated by plot.py at 2017-12-11 21:42:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 152.01 Mbit/s
95th percentile per-packet one-way delay: 135.895 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 152.01 Mbit/s
95th percentile per-packet one-way delay: 135.895 ms
Loss rate: 0.91%
```


Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2017-12-11 17:39:15

End at: 2017-12-11 17:39:45

Below is generated by plot.py at 2017-12-11 21:42:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 152.75 Mbit/s

95th percentile per-packet one-way delay: 135.897 ms

Loss rate: 0.97%

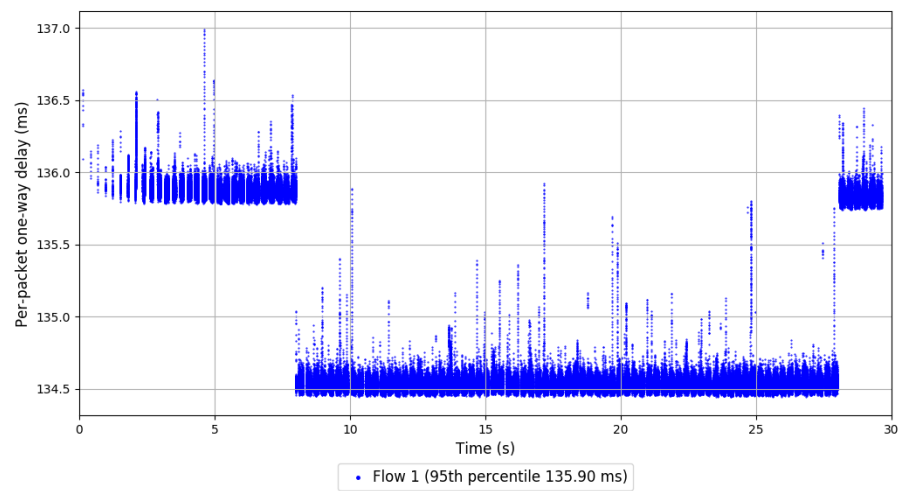
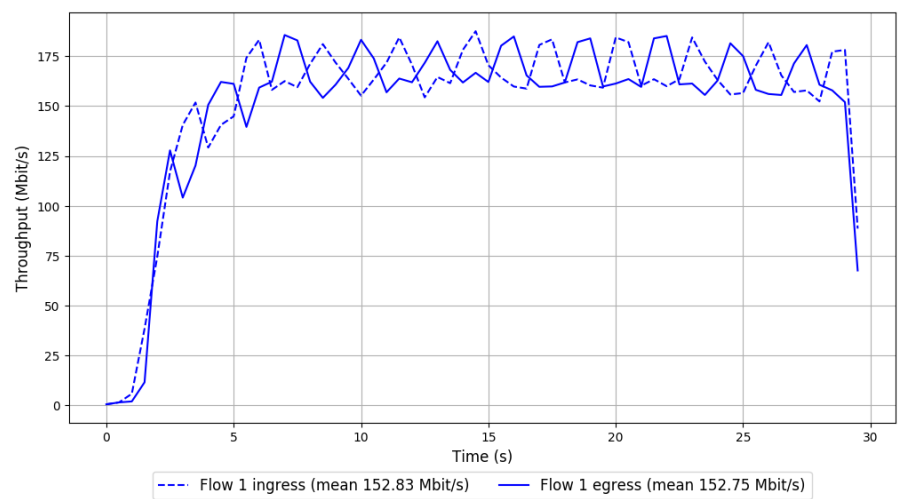
-- Flow 1:

Average throughput: 152.75 Mbit/s

95th percentile per-packet one-way delay: 135.897 ms

Loss rate: 0.97%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2017-12-11 17:50:48

End at: 2017-12-11 17:51:18

Below is generated by plot.py at 2017-12-11 21:42:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 152.06 Mbit/s

95th percentile per-packet one-way delay: 136.825 ms

Loss rate: 1.02%

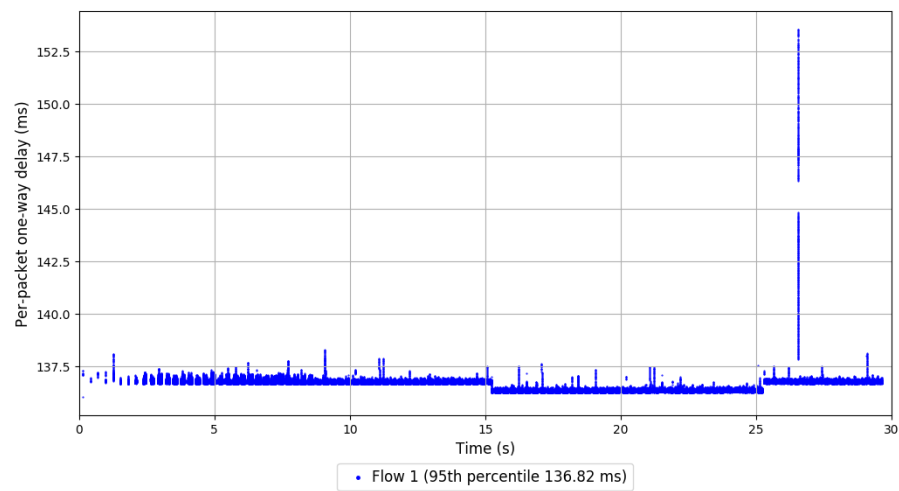
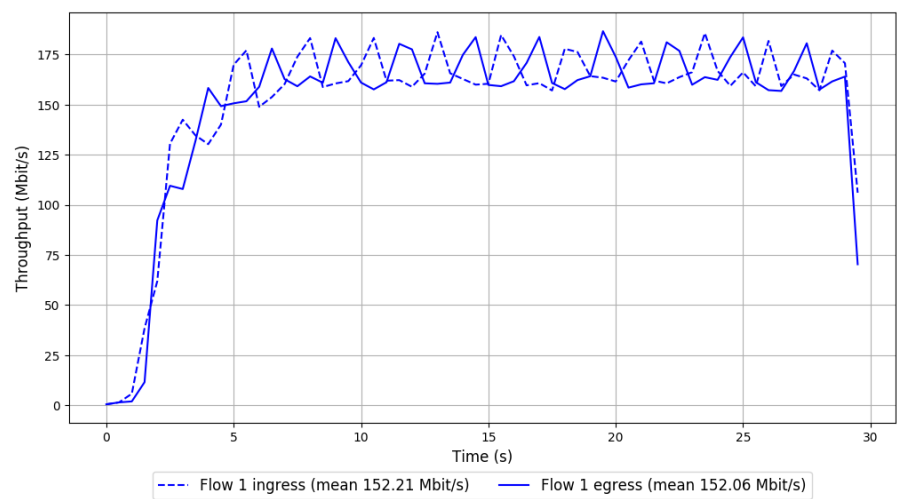
-- Flow 1:

Average throughput: 152.06 Mbit/s

95th percentile per-packet one-way delay: 136.825 ms

Loss rate: 1.02%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2017-12-11 18:02:11

End at: 2017-12-11 18:02:41

Below is generated by plot.py at 2017-12-11 21:42:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 153.50 Mbit/s

95th percentile per-packet one-way delay: 136.852 ms

Loss rate: 1.02%

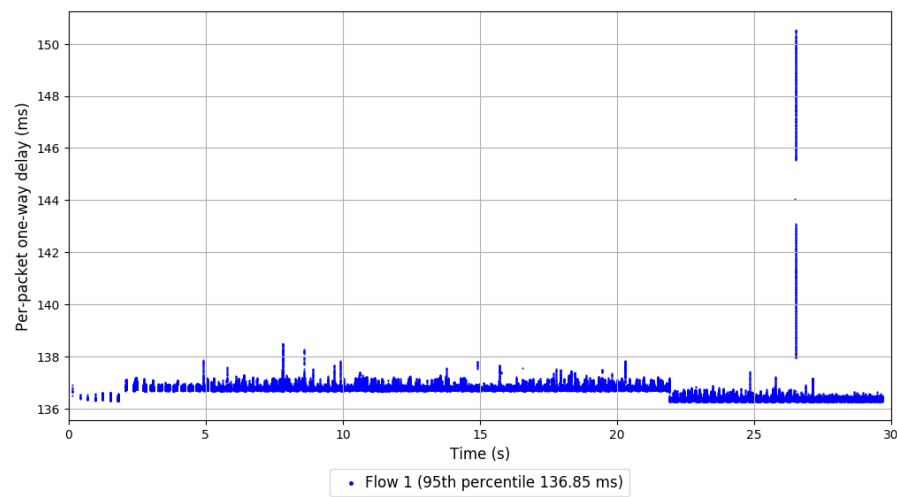
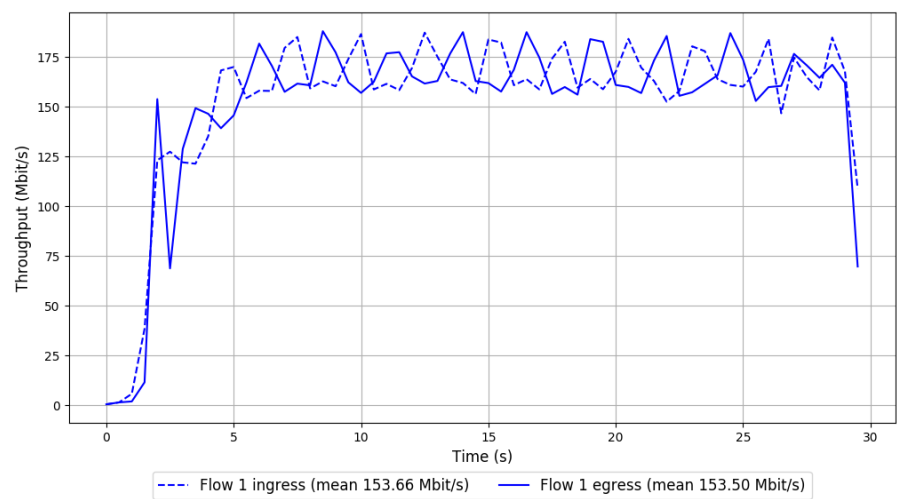
-- Flow 1:

Average throughput: 153.50 Mbit/s

95th percentile per-packet one-way delay: 136.852 ms

Loss rate: 1.02%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2017-12-11 18:13:35

End at: 2017-12-11 18:14:05

Below is generated by plot.py at 2017-12-11 21:43:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 152.83 Mbit/s

95th percentile per-packet one-way delay: 135.949 ms

Loss rate: 1.01%

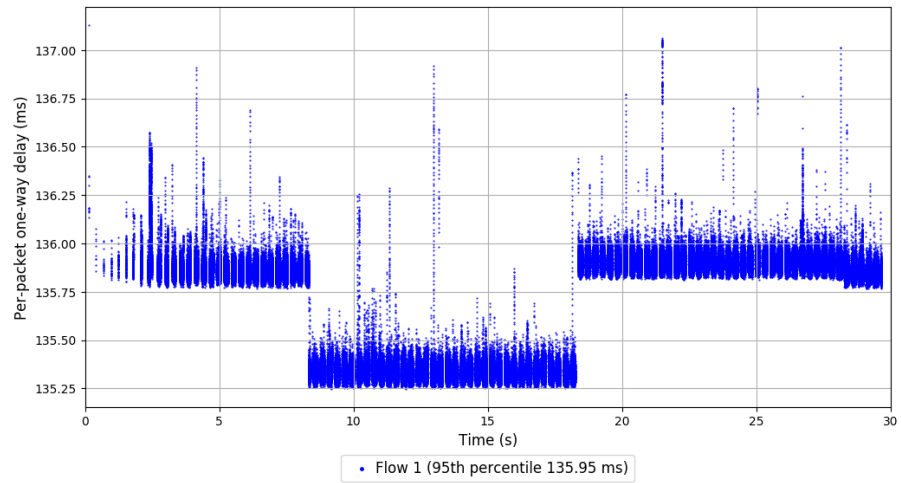
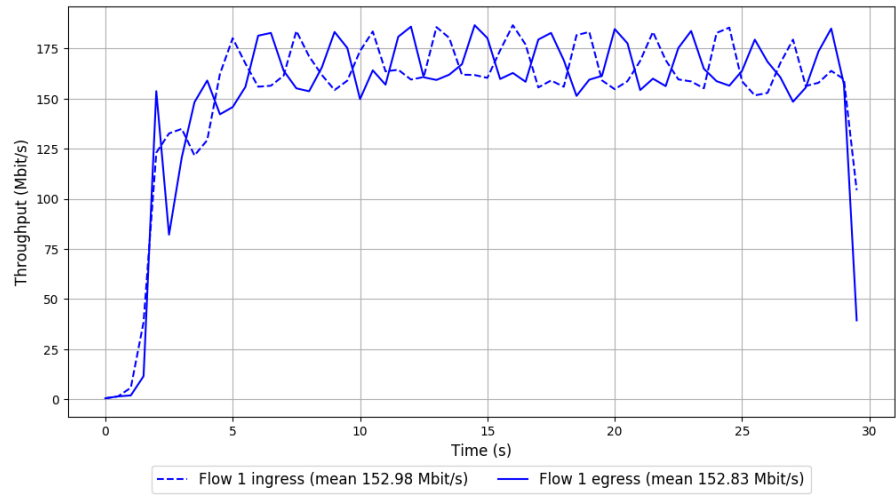
-- Flow 1:

Average throughput: 152.83 Mbit/s

95th percentile per-packet one-way delay: 135.949 ms

Loss rate: 1.01%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2017-12-11 18:25:17

End at: 2017-12-11 18:25:47

Below is generated by plot.py at 2017-12-11 21:43:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 152.42 Mbit/s

95th percentile per-packet one-way delay: 135.934 ms

Loss rate: 1.01%

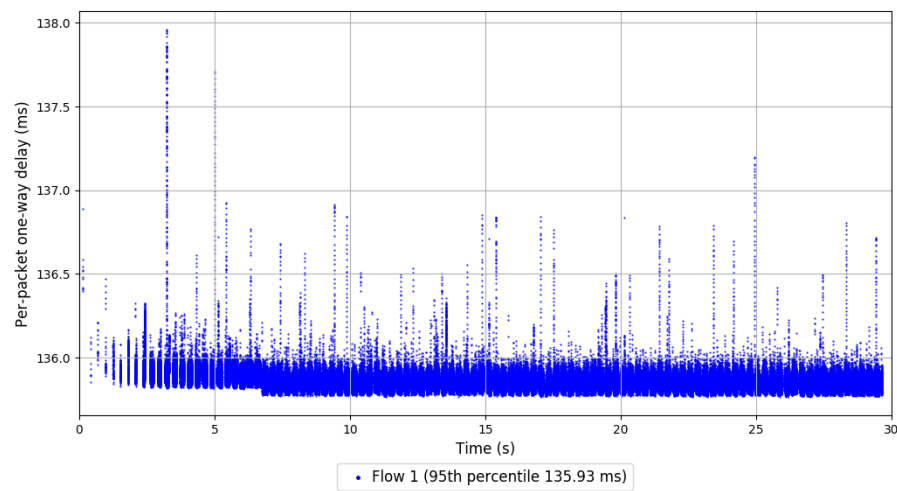
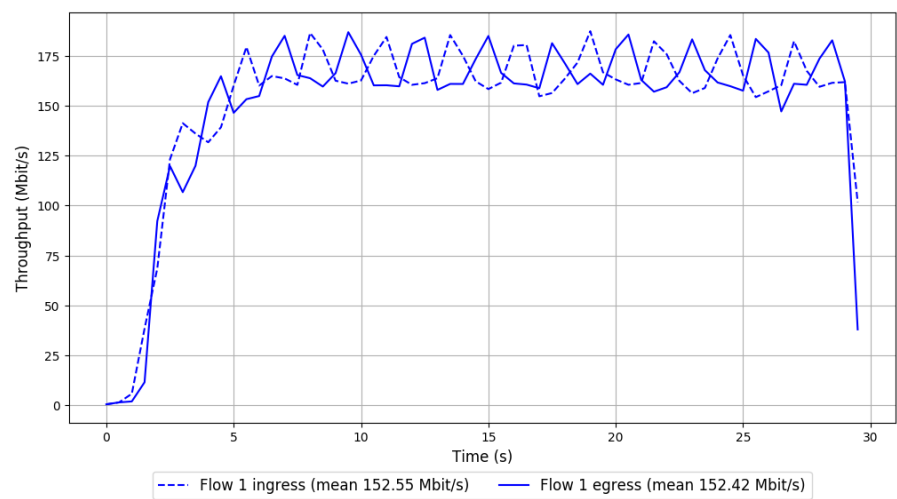
-- Flow 1:

Average throughput: 152.42 Mbit/s

95th percentile per-packet one-way delay: 135.934 ms

Loss rate: 1.01%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2017-12-11 18:36:49

End at: 2017-12-11 18:37:19

Below is generated by plot.py at 2017-12-11 21:44:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 153.31 Mbit/s

95th percentile per-packet one-way delay: 135.946 ms

Loss rate: 1.01%

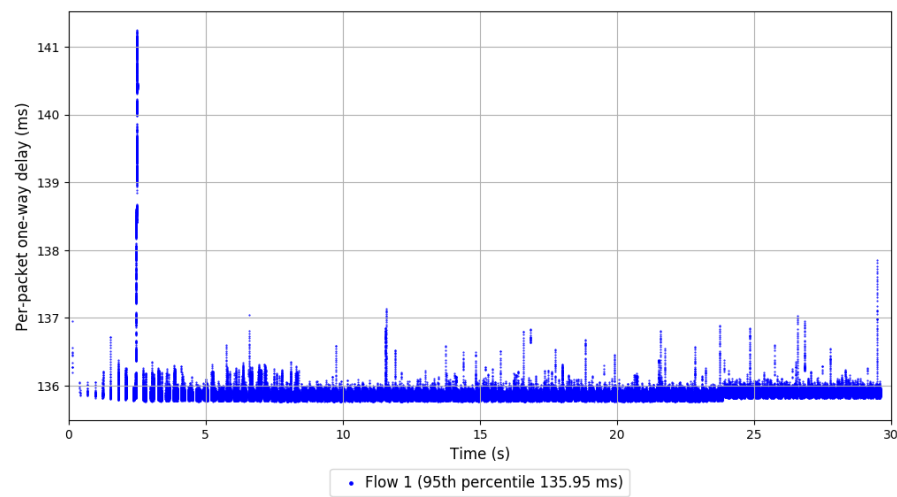
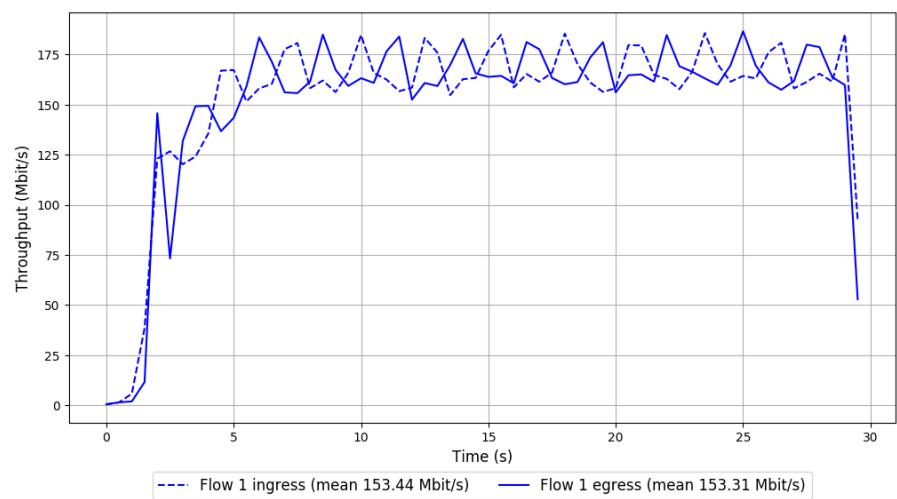
-- Flow 1:

Average throughput: 153.31 Mbit/s

95th percentile per-packet one-way delay: 135.946 ms

Loss rate: 1.01%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2017-12-11 18:48:19

End at: 2017-12-11 18:48:49

Below is generated by plot.py at 2017-12-11 21:44:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 153.12 Mbit/s

95th percentile per-packet one-way delay: 135.916 ms

Loss rate: 0.98%

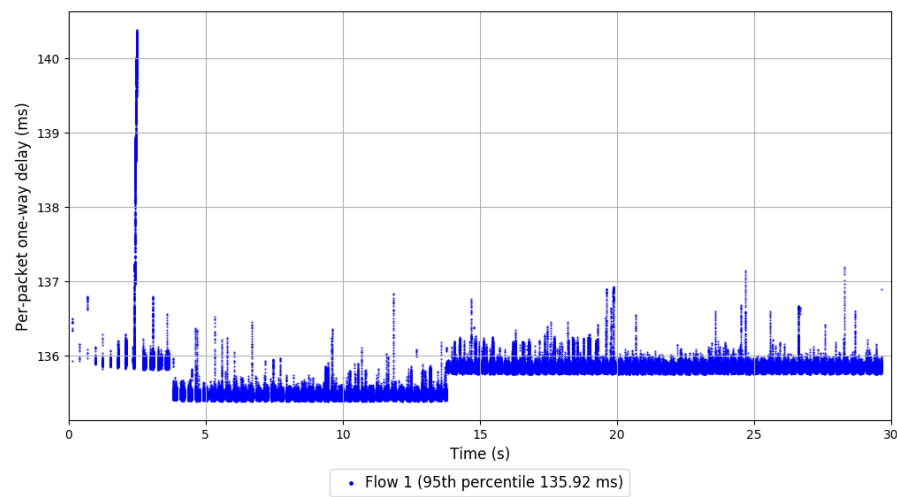
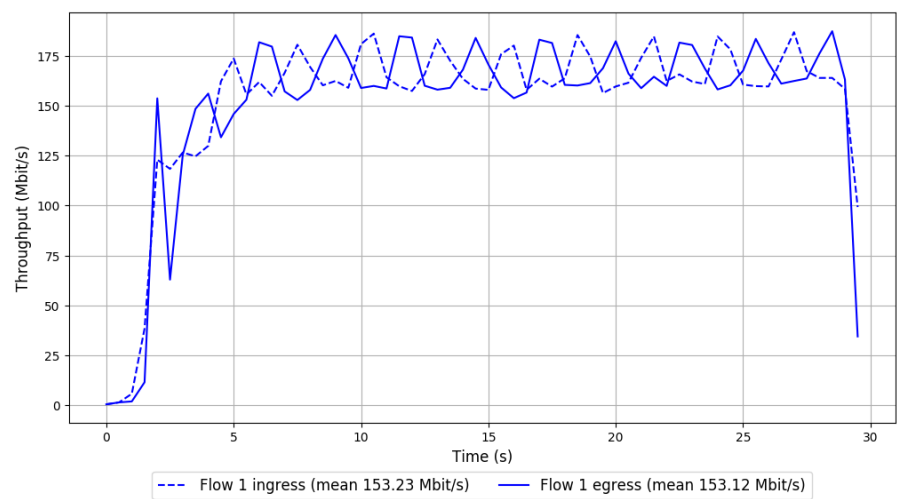
-- Flow 1:

Average throughput: 153.12 Mbit/s

95th percentile per-packet one-way delay: 135.916 ms

Loss rate: 0.98%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2017-12-11 18:59:49

End at: 2017-12-11 19:00:19

Below is generated by plot.py at 2017-12-11 21:44:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 153.43 Mbit/s

95th percentile per-packet one-way delay: 135.938 ms

Loss rate: 1.01%

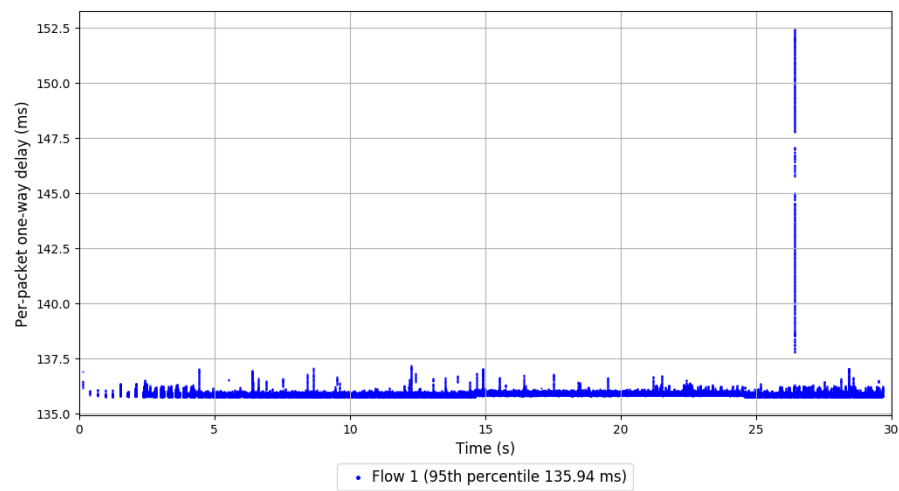
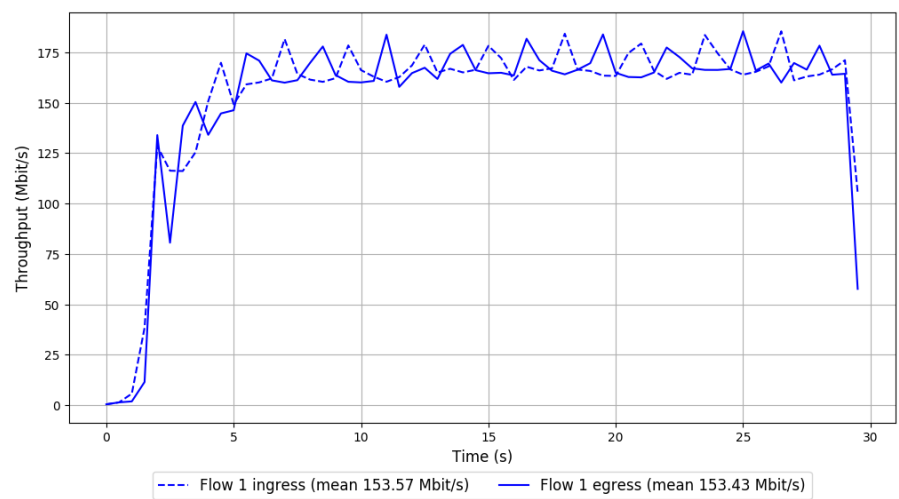
-- Flow 1:

Average throughput: 153.43 Mbit/s

95th percentile per-packet one-way delay: 135.938 ms

Loss rate: 1.01%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2017-12-11 19:11:10

End at: 2017-12-11 19:11:40

Below is generated by plot.py at 2017-12-11 21:45:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 153.86 Mbit/s

95th percentile per-packet one-way delay: 135.984 ms

Loss rate: 0.99%

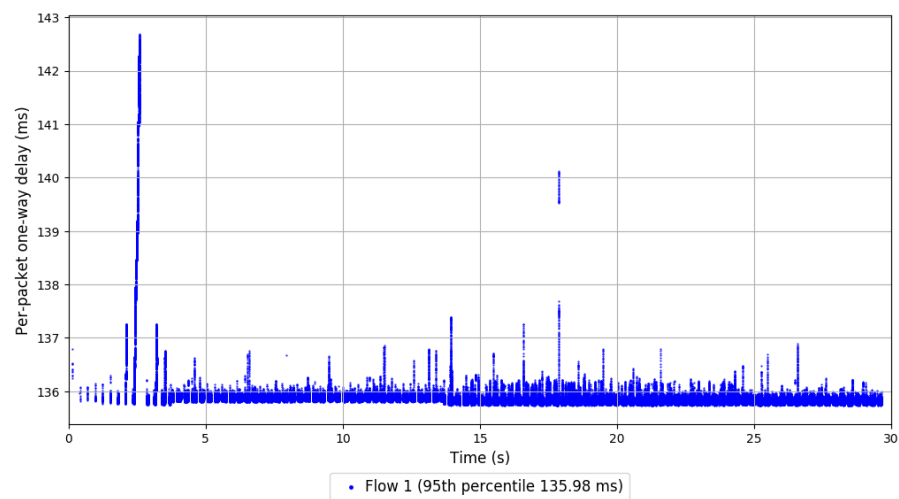
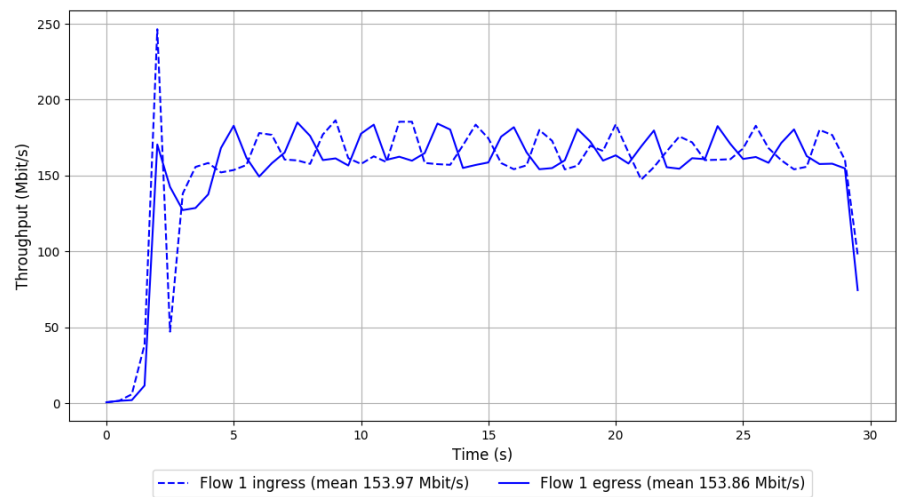
-- Flow 1:

Average throughput: 153.86 Mbit/s

95th percentile per-packet one-way delay: 135.984 ms

Loss rate: 0.99%

Run 10: Report of Indigo — Data Link

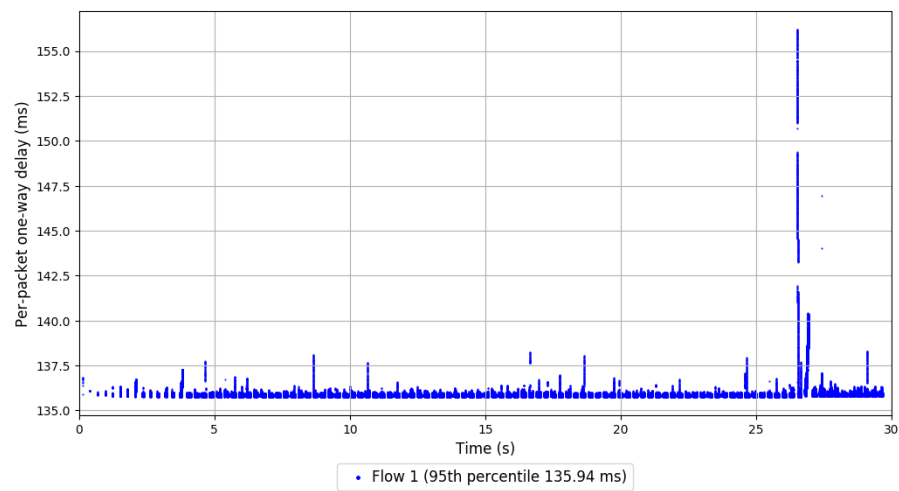
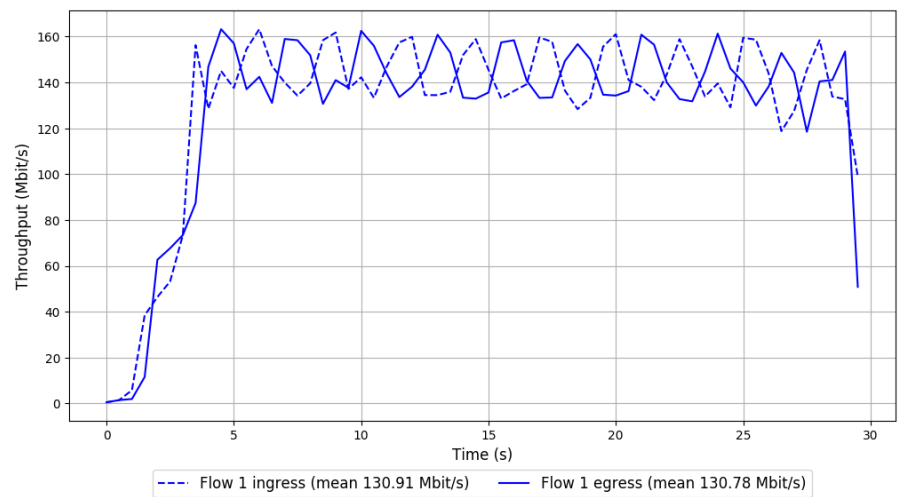


```
Run 1: Statistics of Indigo-calib

Start at: 2017-12-11 17:24:26
End at: 2017-12-11 17:24:56

# Below is generated by plot.py at 2017-12-11 21:45:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 130.78 Mbit/s
95th percentile per-packet one-way delay: 135.945 ms
Loss rate: 1.01%
-- Flow 1:
Average throughput: 130.78 Mbit/s
95th percentile per-packet one-way delay: 135.945 ms
Loss rate: 1.01%
```

Run 1: Report of Indigo-calib — Data Link

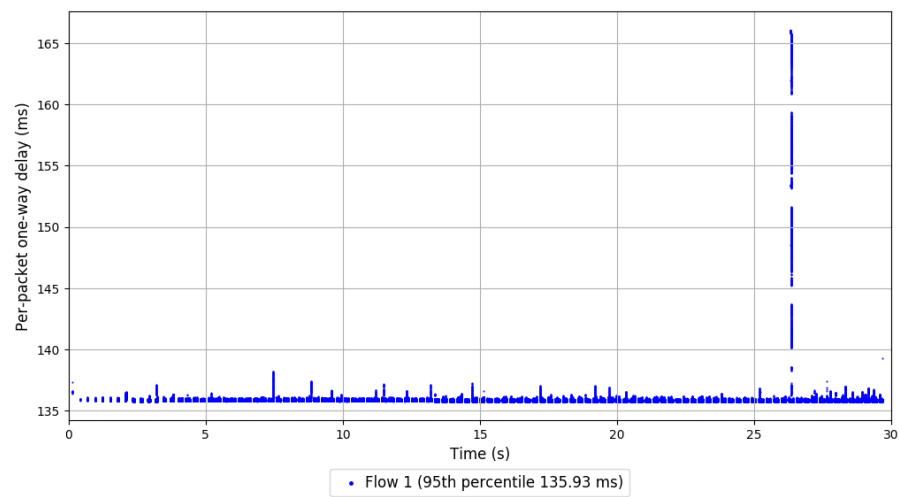
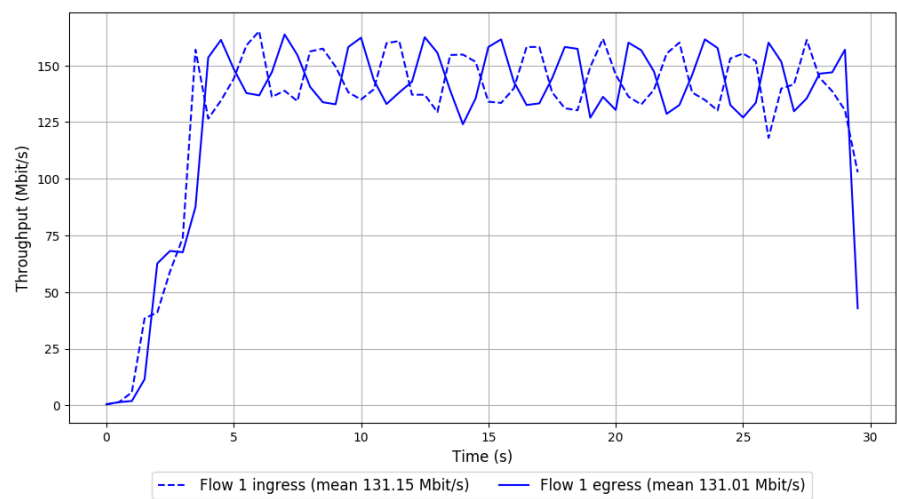


```
Run 2: Statistics of Indigo-calib

Start at: 2017-12-11 17:36:00
End at: 2017-12-11 17:36:30

# Below is generated by plot.py at 2017-12-11 21:45:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 131.01 Mbit/s
95th percentile per-packet one-way delay: 135.932 ms
Loss rate: 1.01%
-- Flow 1:
Average throughput: 131.01 Mbit/s
95th percentile per-packet one-way delay: 135.932 ms
Loss rate: 1.01%
```

Run 2: Report of Indigo-calib — Data Link



Run 3: Statistics of Indigo-calib

Start at: 2017-12-11 17:47:32

End at: 2017-12-11 17:48:02

Below is generated by plot.py at 2017-12-11 21:45:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 132.44 Mbit/s

95th percentile per-packet one-way delay: 136.794 ms

Loss rate: 1.01%

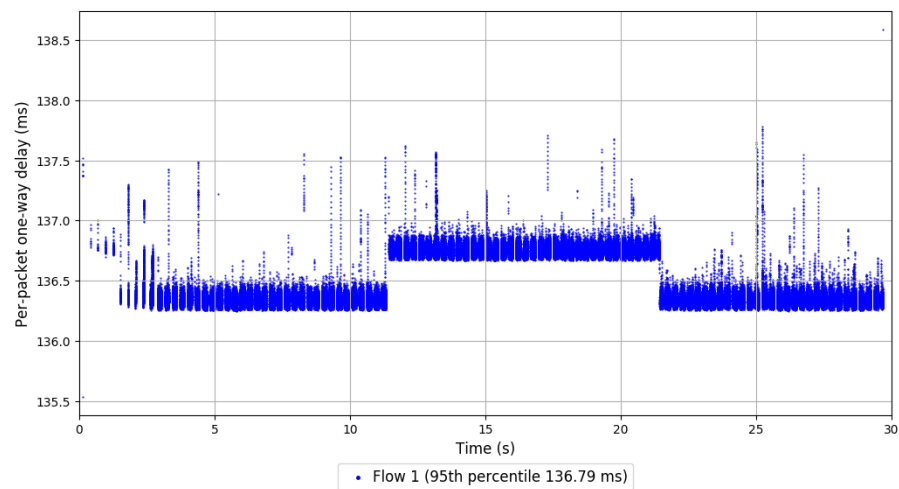
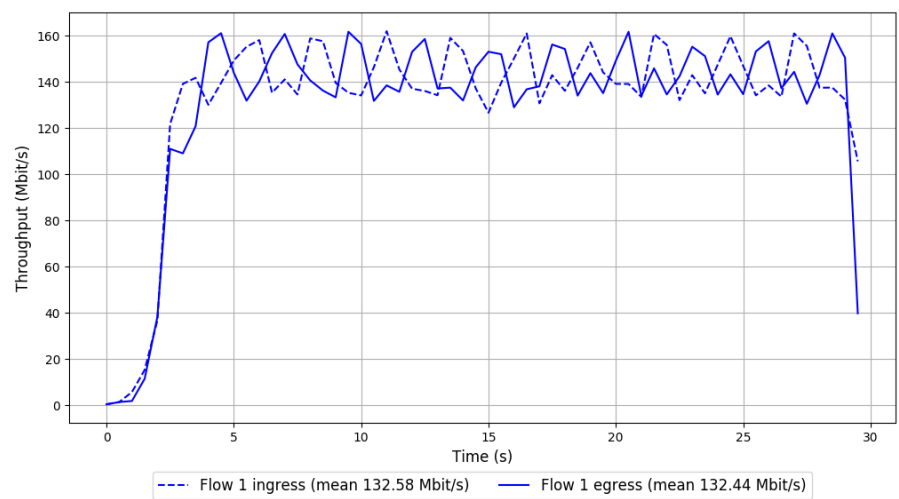
-- Flow 1:

Average throughput: 132.44 Mbit/s

95th percentile per-packet one-way delay: 136.794 ms

Loss rate: 1.01%

Run 3: Report of Indigo-calib — Data Link



Run 4: Statistics of Indigo-calib

Start at: 2017-12-11 17:59:03

End at: 2017-12-11 17:59:33

Below is generated by plot.py at 2017-12-11 21:45:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 132.47 Mbit/s

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

Loss rate: 1.00%

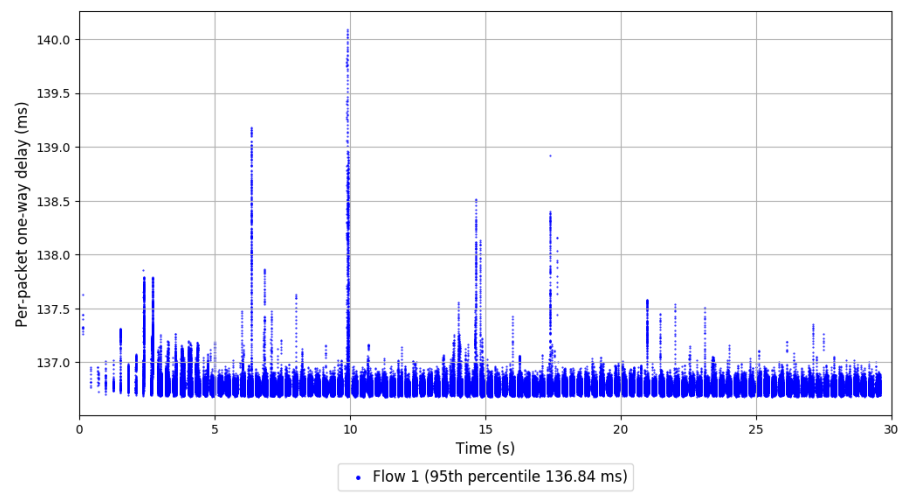
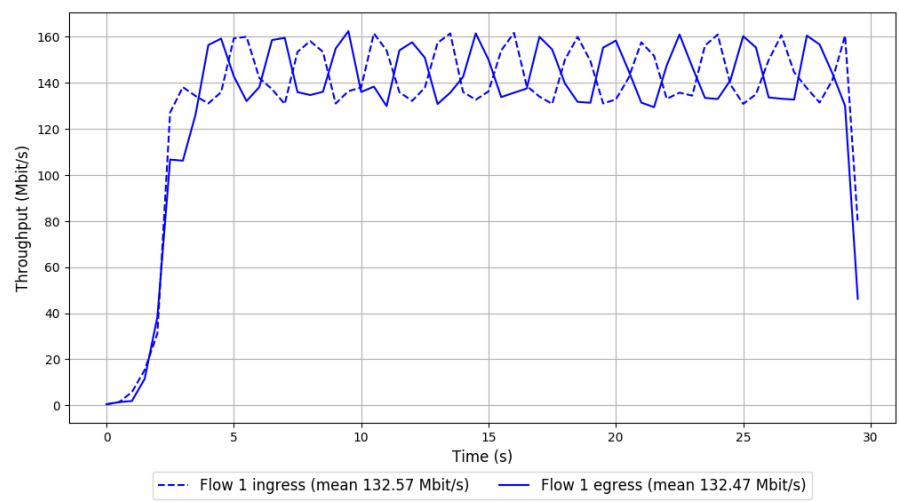
-- Flow 1:

Average throughput: 132.47 Mbit/s

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

Loss rate: 1.00%

Run 4: Report of Indigo-calib — Data Link



Run 5: Statistics of Indigo-calib

Start at: 2017-12-11 18:10:19

End at: 2017-12-11 18:10:50

Below is generated by plot.py at 2017-12-11 21:46:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 130.80 Mbit/s

95th percentile per-packet one-way delay: 135.947 ms

Loss rate: 0.99%

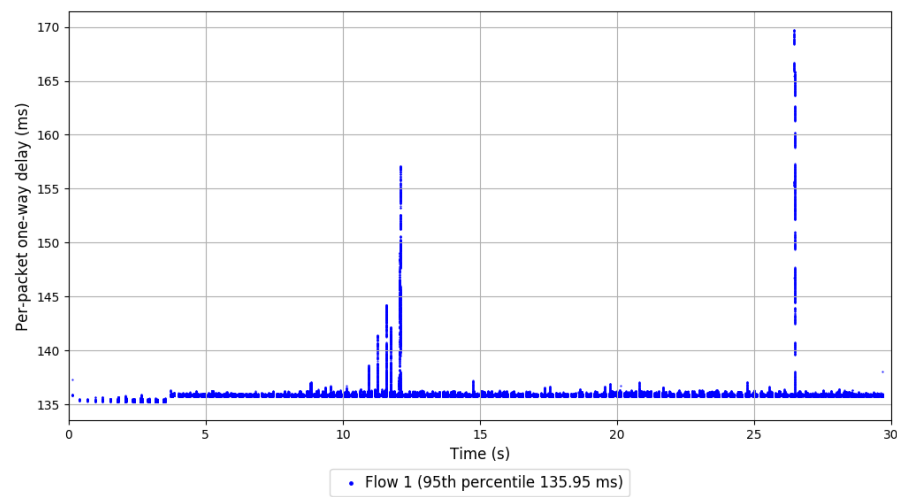
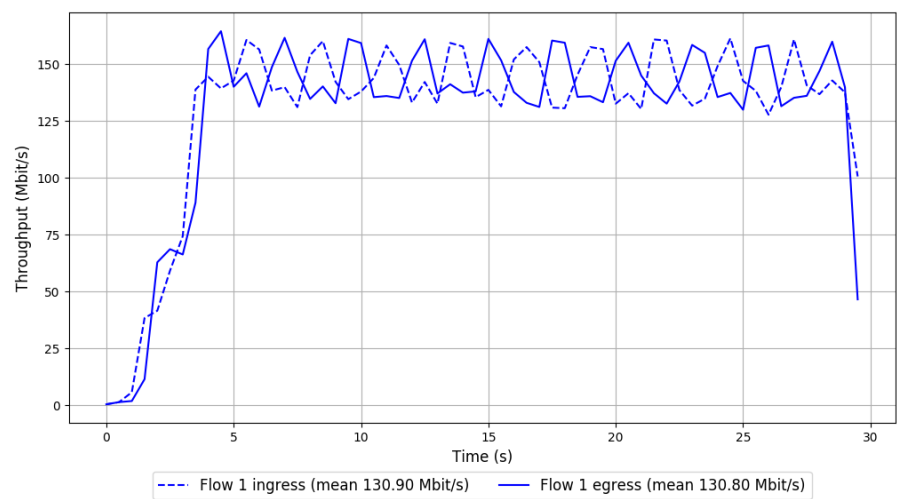
-- Flow 1:

Average throughput: 130.80 Mbit/s

95th percentile per-packet one-way delay: 135.947 ms

Loss rate: 0.99%

Run 5: Report of Indigo-calib — Data Link



Run 6: Statistics of Indigo-calib

Start at: 2017-12-11 18:22:00

End at: 2017-12-11 18:22:30

Below is generated by plot.py at 2017-12-11 21:46:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 133.05 Mbit/s

95th percentile per-packet one-way delay: 135.935 ms

Loss rate: 1.01%

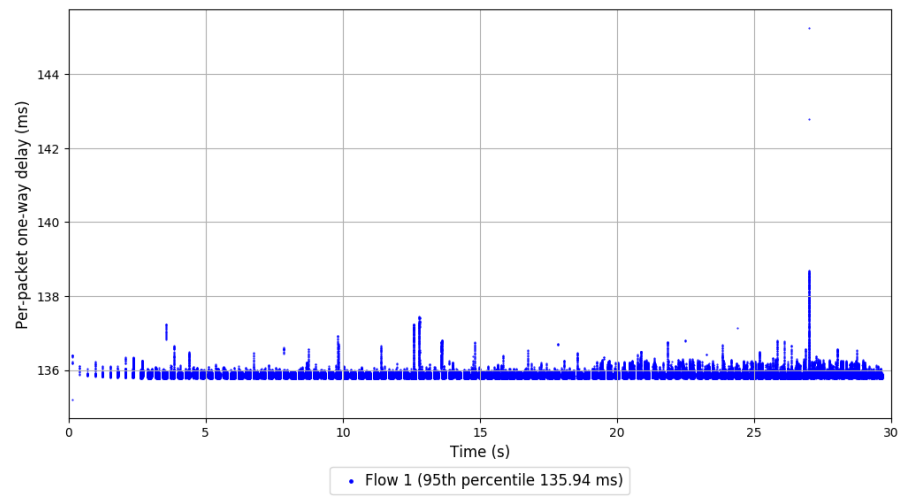
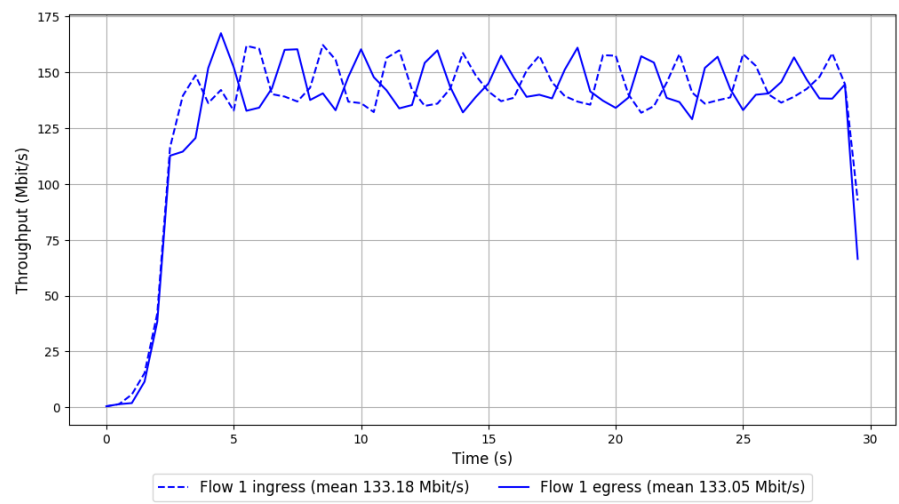
-- Flow 1:

Average throughput: 133.05 Mbit/s

95th percentile per-packet one-way delay: 135.935 ms

Loss rate: 1.01%

Run 6: Report of Indigo-calib — Data Link



Run 7: Statistics of Indigo-calib

Start at: 2017-12-11 18:33:43

End at: 2017-12-11 18:34:13

Below is generated by plot.py at 2017-12-11 21:46:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 127.83 Mbit/s

95th percentile per-packet one-way delay: 135.968 ms

Loss rate: 1.18%

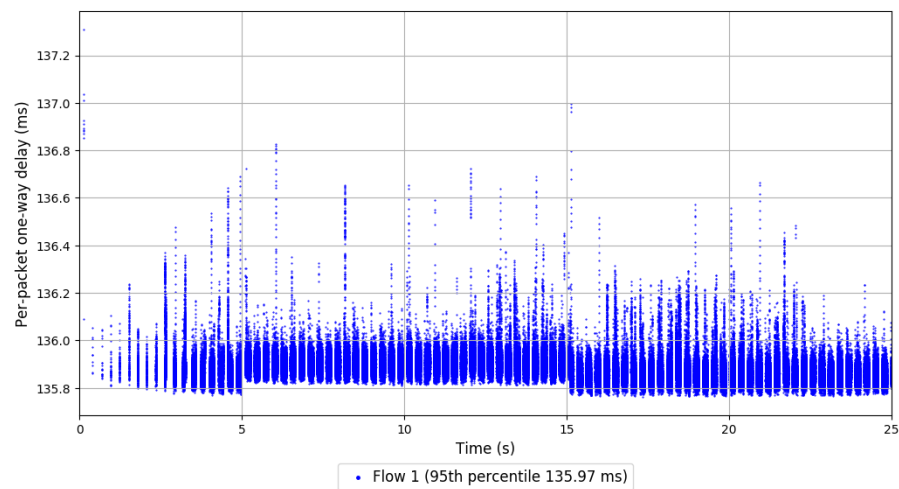
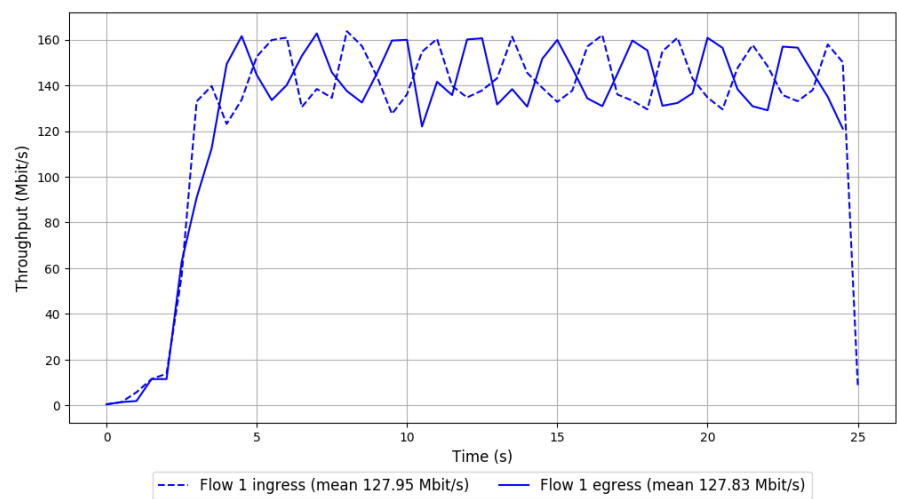
-- Flow 1:

Average throughput: 127.83 Mbit/s

95th percentile per-packet one-way delay: 135.968 ms

Loss rate: 1.18%

Run 7: Report of Indigo-calib — Data Link



Run 8: Statistics of Indigo-calib

Start at: 2017-12-11 18:45:01

End at: 2017-12-11 18:45:31

Below is generated by plot.py at 2017-12-11 21:46:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 130.61 Mbit/s

95th percentile per-packet one-way delay: 135.914 ms

Loss rate: 0.95%

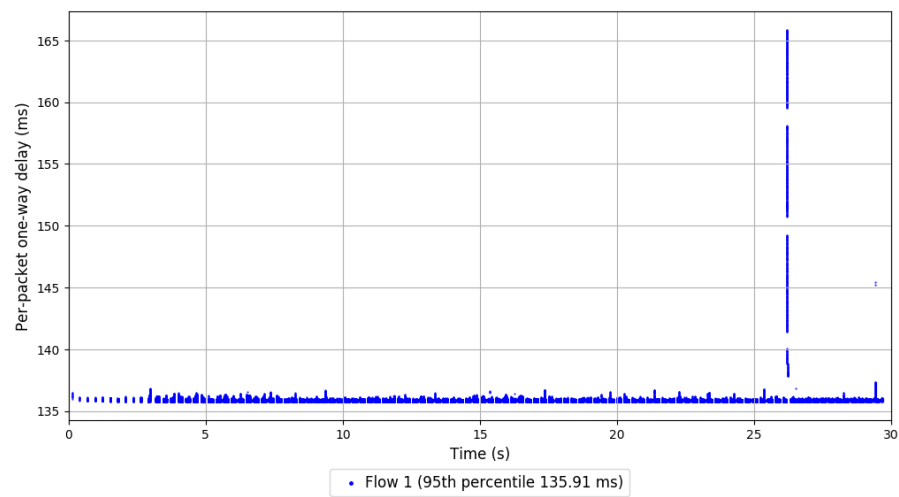
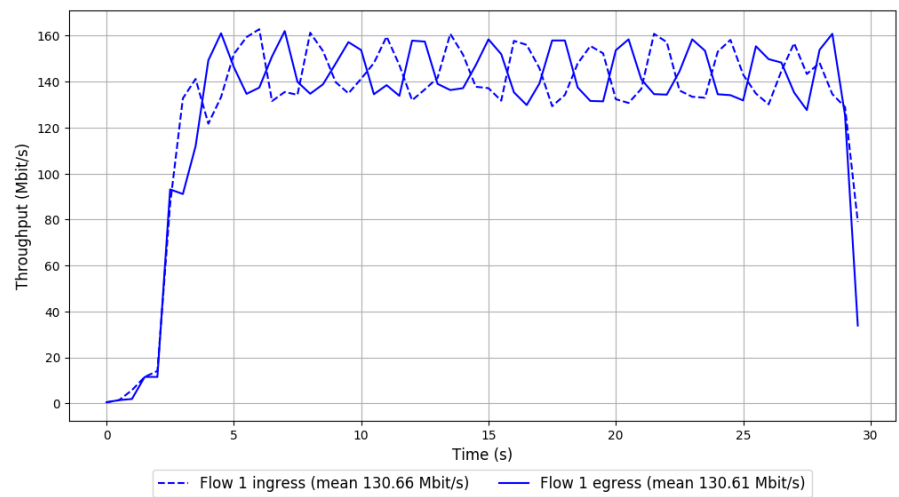
-- Flow 1:

Average throughput: 130.61 Mbit/s

95th percentile per-packet one-way delay: 135.914 ms

Loss rate: 0.95%

Run 8: Report of Indigo-calib — Data Link



Run 9: Statistics of Indigo-calib

Start at: 2017-12-11 18:56:31

End at: 2017-12-11 18:57:01

Below is generated by plot.py at 2017-12-11 21:46:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 131.21 Mbit/s

95th percentile per-packet one-way delay: 135.946 ms

Loss rate: 0.99%

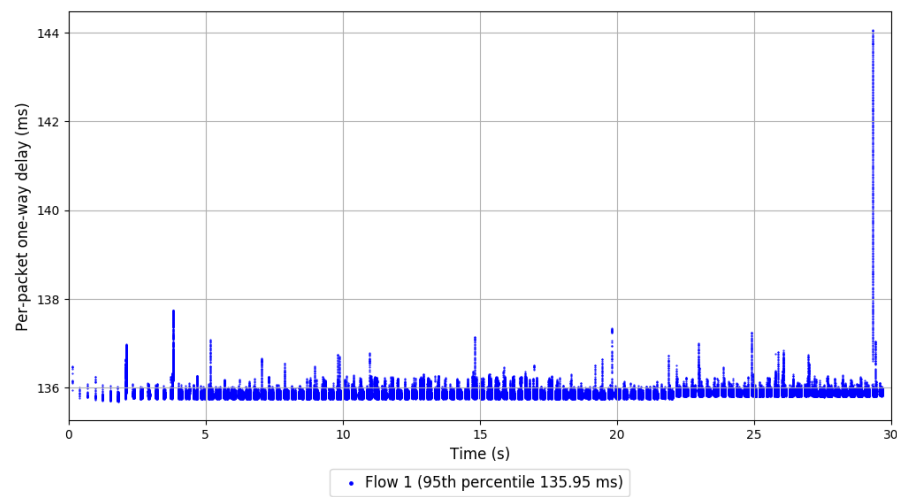
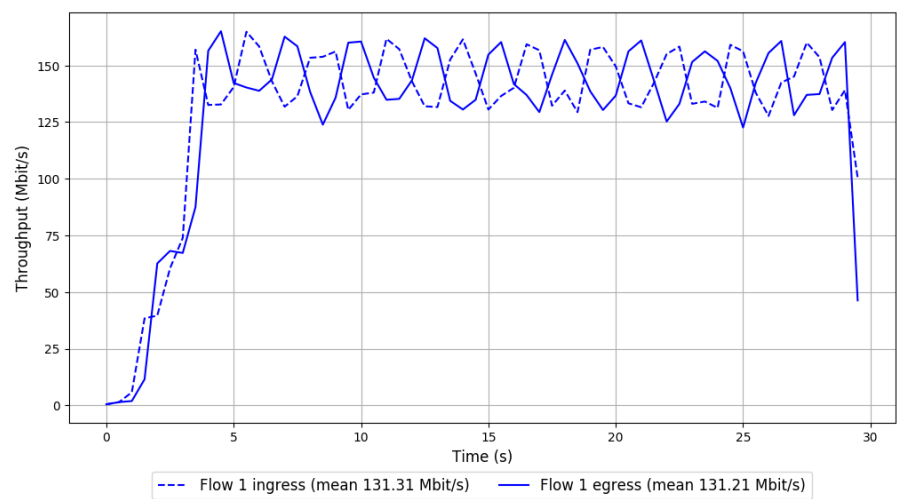
-- Flow 1:

Average throughput: 131.21 Mbit/s

95th percentile per-packet one-way delay: 135.946 ms

Loss rate: 0.99%

Run 9: Report of Indigo-calib — Data Link



Run 10: Statistics of Indigo-calib

Start at: 2017-12-11 19:08:02

End at: 2017-12-11 19:08:32

Below is generated by plot.py at 2017-12-11 21:46:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 132.91 Mbit/s

95th percentile per-packet one-way delay: 135.904 ms

Loss rate: 0.99%

-- Flow 1:

Average throughput: 132.91 Mbit/s

95th percentile per-packet one-way delay: 135.904 ms

Loss rate: 0.99%

Run 10: Report of Indigo-calib — Data Link

