

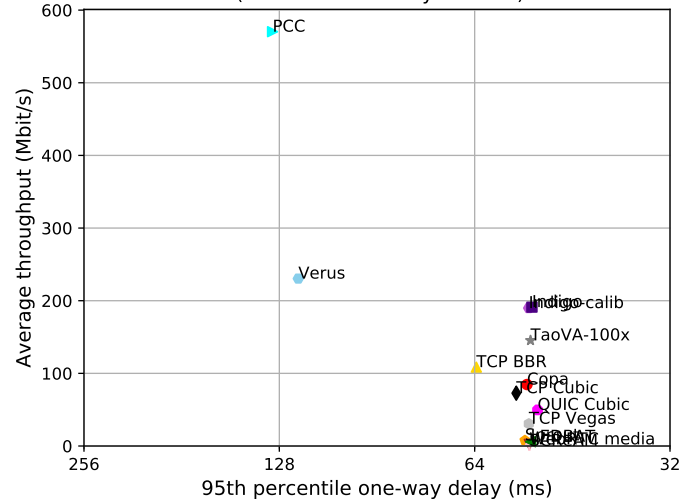
Pantheon Report

Generated at 2017-12-11 16:59:29 (UTC).
Data path: GCE Sydney Ethernet (*local*) → GCE Tokyo Ethernet (*remote*).
Repeated the test of 14 congestion control schemes 10 times.
Each test lasted for 30 seconds running 1 flow.
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).
Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo_fast**).

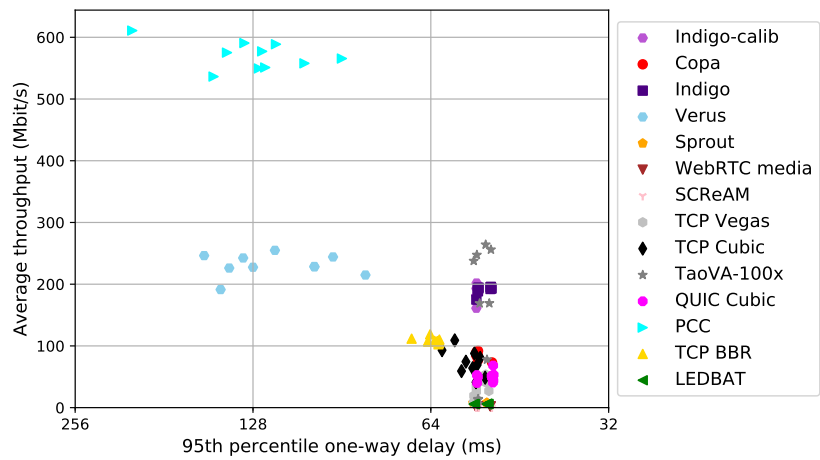
Git summary:

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

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



test from GCE Sydney Ethernet to GCE Tokyo 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	108.54	63.62	0.02
TCP Cubic	10	72.72	55.22	0.03
LEDBAT	7	5.88	52.49	0.47
PCC	10	570.29	131.11	1.03
QUIC Cubic	10	49.69	51.20	0.00
SCReAM	4	0.21	52.72	0.03
WebRTC media	10	2.27	52.72	0.00
Sprout	10	7.76	53.55	0.18
TaoVA-100x	10	145.39	52.50	0.00
TCP Vegas	10	30.62	52.81	0.04
Verus	10	230.44	119.68	1.16
Copa	10	84.61	53.16	0.00
Indigo	10	191.27	52.23	0.02
Indigo-calib	10	189.86	52.84	0.00

Run 1: Statistics of TCP BBR

Start at: 2017-12-11 13:56:41

End at: 2017-12-11 13:57:11

Below is generated by plot.py at 2017-12-11 16:22:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 111.76 Mbit/s

95th percentile per-packet one-way delay: 68.978 ms

Loss rate: 0.03%

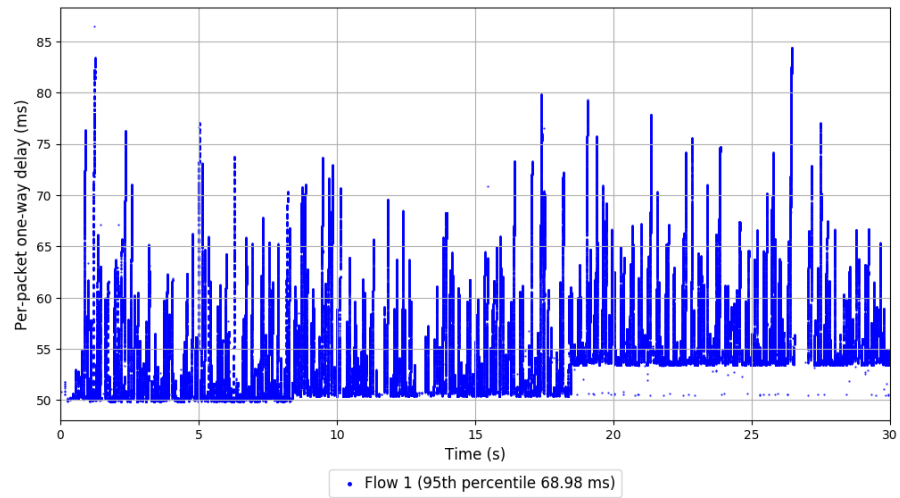
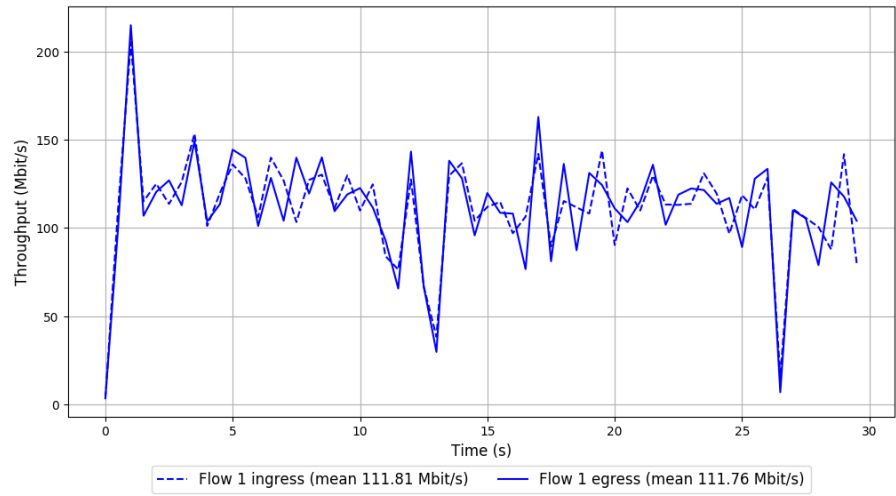
-- Flow 1:

Average throughput: 111.76 Mbit/s

95th percentile per-packet one-way delay: 68.978 ms

Loss rate: 0.03%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2017-12-11 14:07:07

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

Below is generated by plot.py at 2017-12-11 16:22:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 110.31 Mbit/s

95th percentile per-packet one-way delay: 61.901 ms

Loss rate: 0.01%

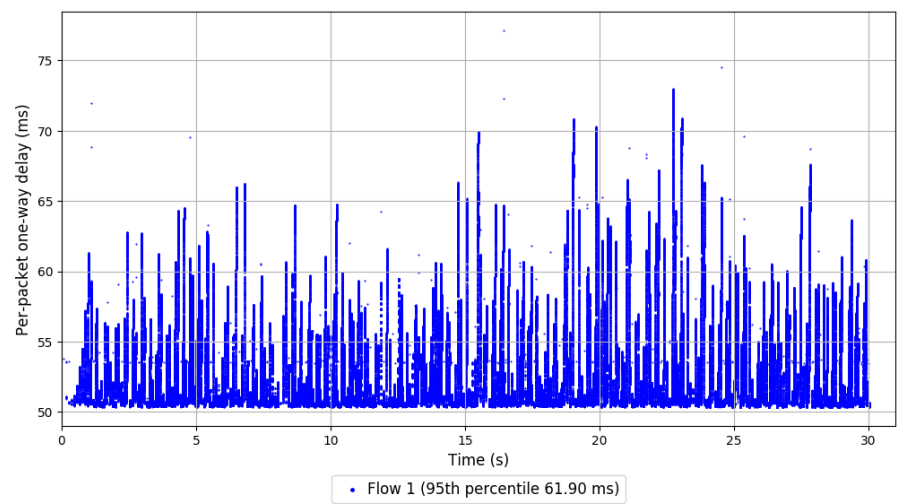
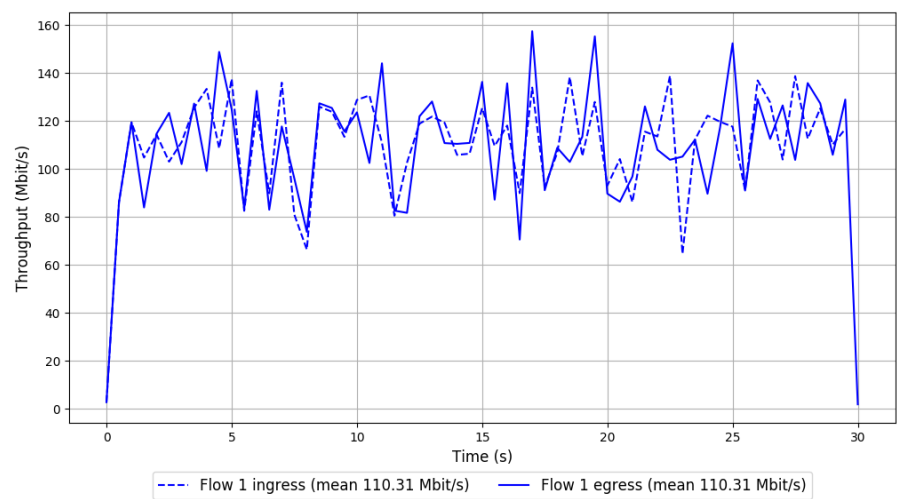
-- Flow 1:

Average throughput: 110.31 Mbit/s

95th percentile per-packet one-way delay: 61.901 ms

Loss rate: 0.01%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2017-12-11 14:17:25

End at: 2017-12-11 14:17:55

Below is generated by plot.py at 2017-12-11 16:22:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 105.94 Mbit/s

95th percentile per-packet one-way delay: 62.284 ms

Loss rate: 0.01%

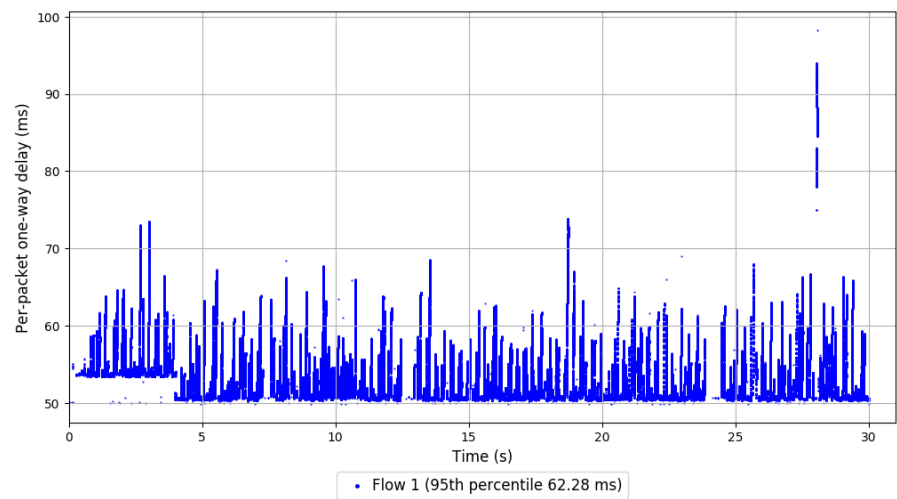
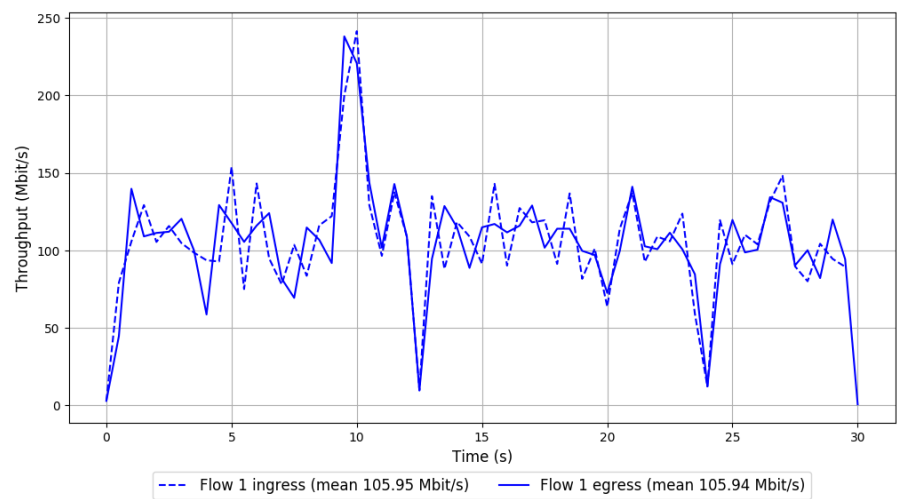
-- Flow 1:

Average throughput: 105.94 Mbit/s

95th percentile per-packet one-way delay: 62.284 ms

Loss rate: 0.01%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2017-12-11 14:27:34

End at: 2017-12-11 14:28:04

Below is generated by plot.py at 2017-12-11 16:22:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 105.16 Mbit/s

95th percentile per-packet one-way delay: 61.964 ms

Loss rate: 0.02%

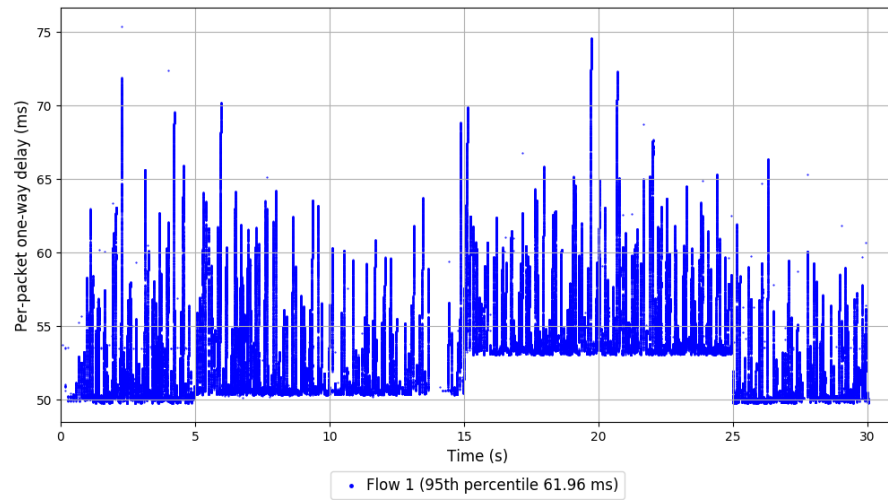
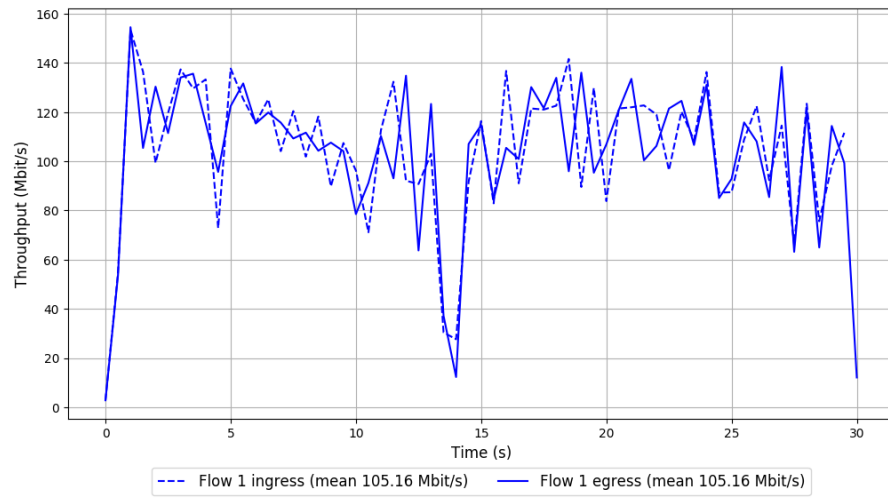
-- Flow 1:

Average throughput: 105.16 Mbit/s

95th percentile per-packet one-way delay: 61.964 ms

Loss rate: 0.02%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2017-12-11 14:37:41

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

Below is generated by plot.py at 2017-12-11 16:22:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 106.89 Mbit/s

95th percentile per-packet one-way delay: 64.649 ms

Loss rate: 0.02%

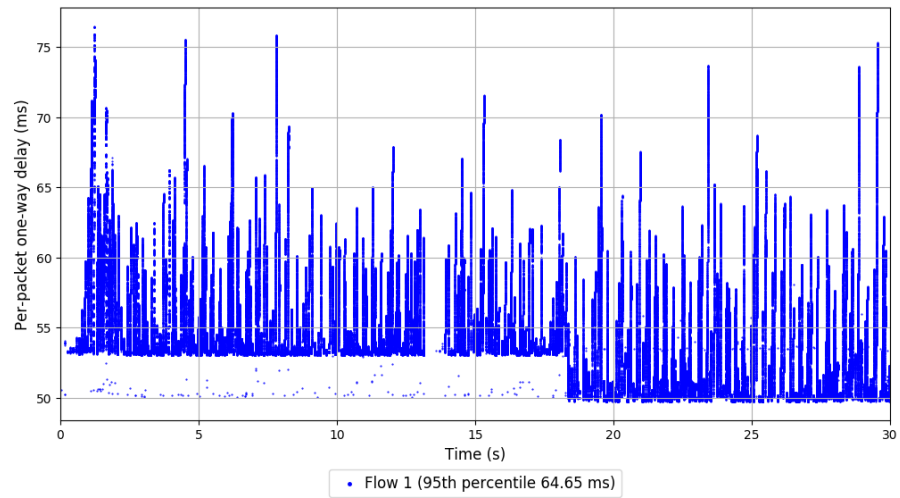
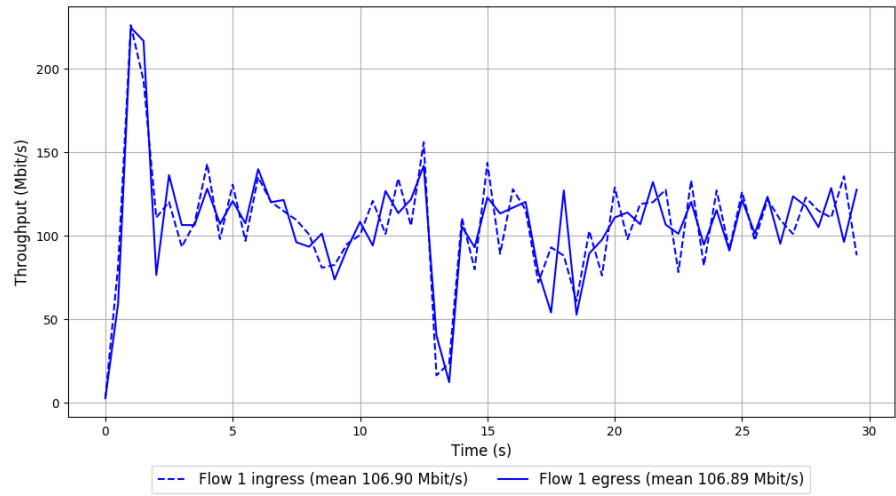
-- Flow 1:

Average throughput: 106.89 Mbit/s

95th percentile per-packet one-way delay: 64.649 ms

Loss rate: 0.02%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2017-12-11 14:47:56

End at: 2017-12-11 14:48:26

Below is generated by plot.py at 2017-12-11 16:22:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 118.89 Mbit/s

95th percentile per-packet one-way delay: 64.170 ms

Loss rate: 0.03%

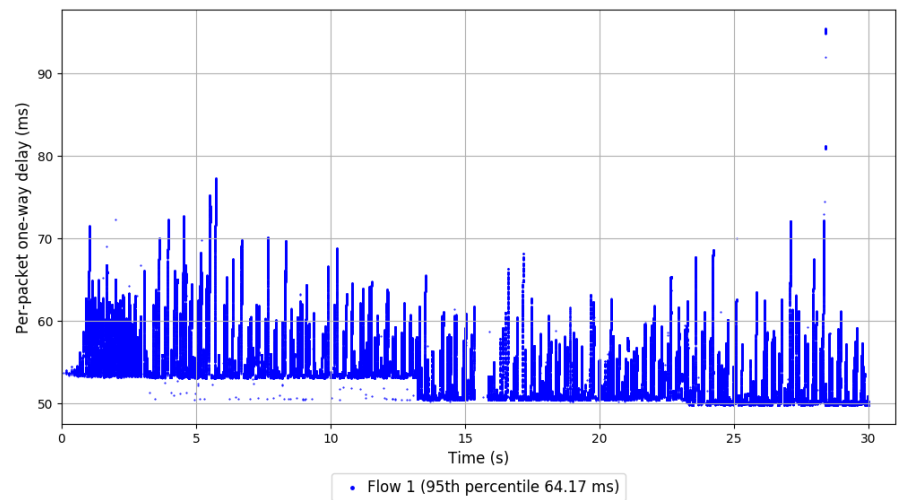
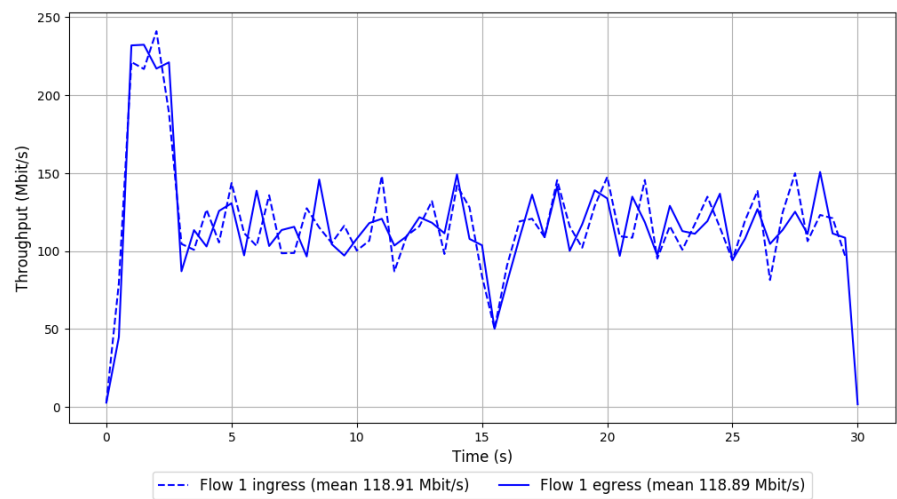
-- Flow 1:

Average throughput: 118.89 Mbit/s

95th percentile per-packet one-way delay: 64.170 ms

Loss rate: 0.03%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2017-12-11 14:58:14

End at: 2017-12-11 14:58:44

Below is generated by plot.py at 2017-12-11 16:22:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 107.75 Mbit/s

95th percentile per-packet one-way delay: 64.701 ms

Loss rate: 0.05%

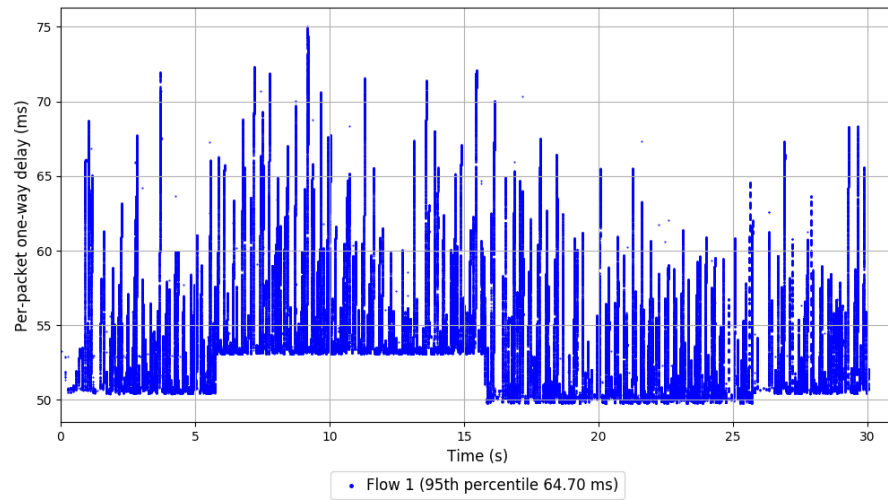
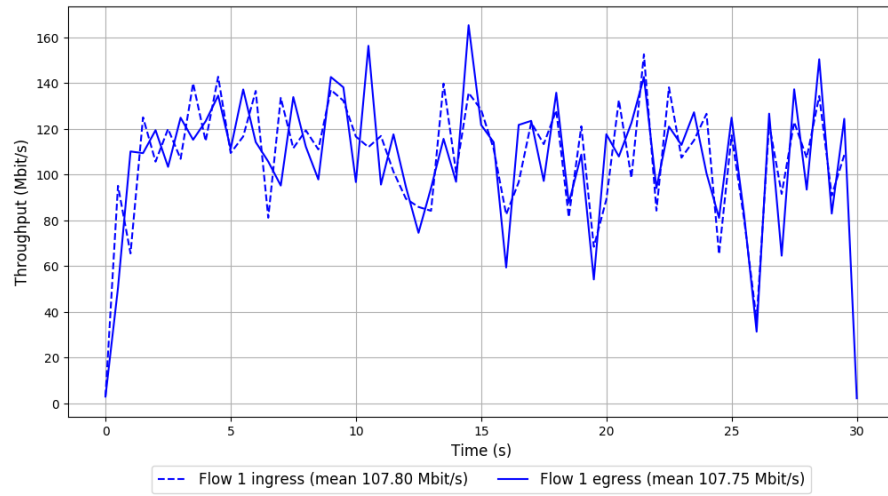
-- Flow 1:

Average throughput: 107.75 Mbit/s

95th percentile per-packet one-way delay: 64.701 ms

Loss rate: 0.05%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2017-12-11 15:08:18

End at: 2017-12-11 15:08:48

Below is generated by plot.py at 2017-12-11 16:22:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 102.67 Mbit/s

95th percentile per-packet one-way delay: 62.123 ms

Loss rate: 0.01%

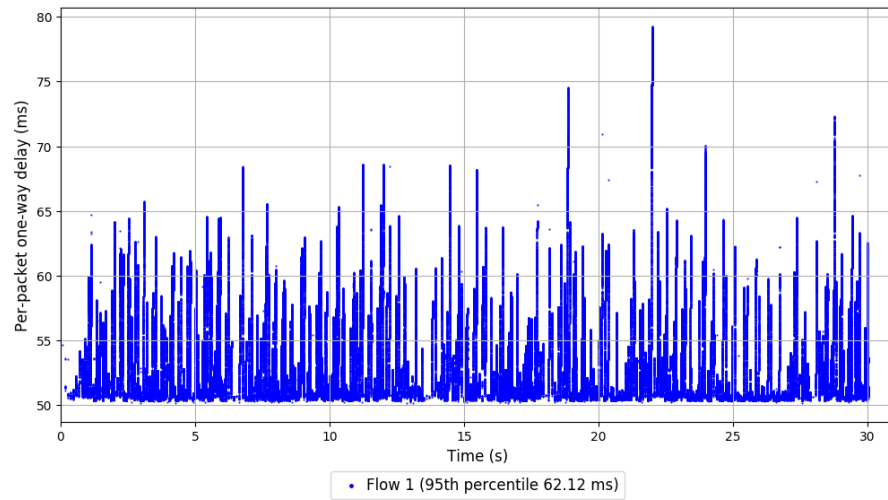
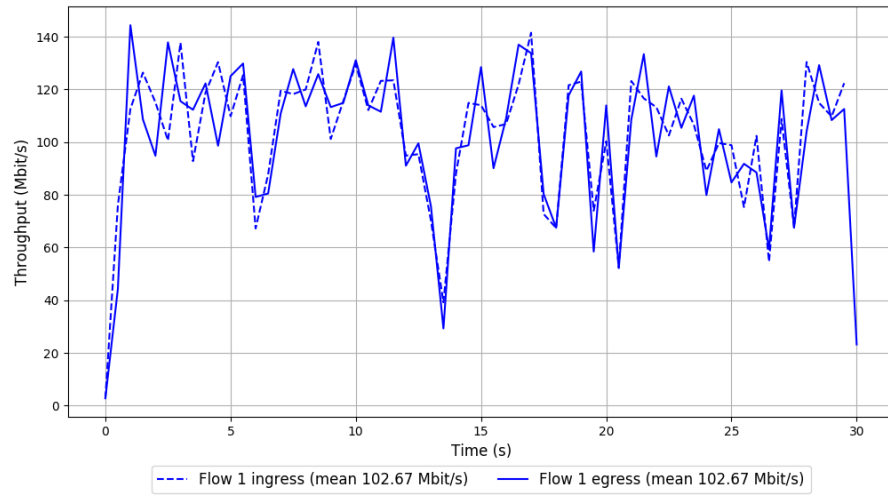
-- Flow 1:

Average throughput: 102.67 Mbit/s

95th percentile per-packet one-way delay: 62.123 ms

Loss rate: 0.01%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2017-12-11 15:18:43

End at: 2017-12-11 15:19:13

Below is generated by plot.py at 2017-12-11 16:23:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 108.17 Mbit/s

95th percentile per-packet one-way delay: 63.052 ms

Loss rate: 0.01%

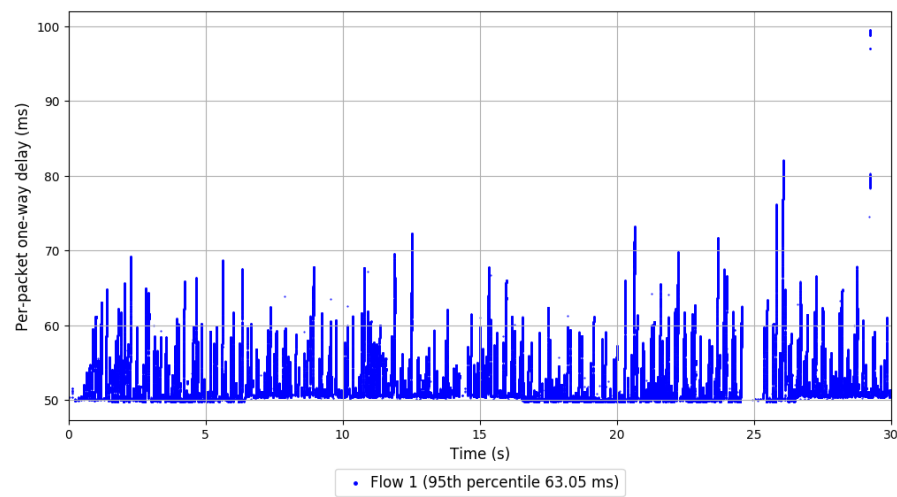
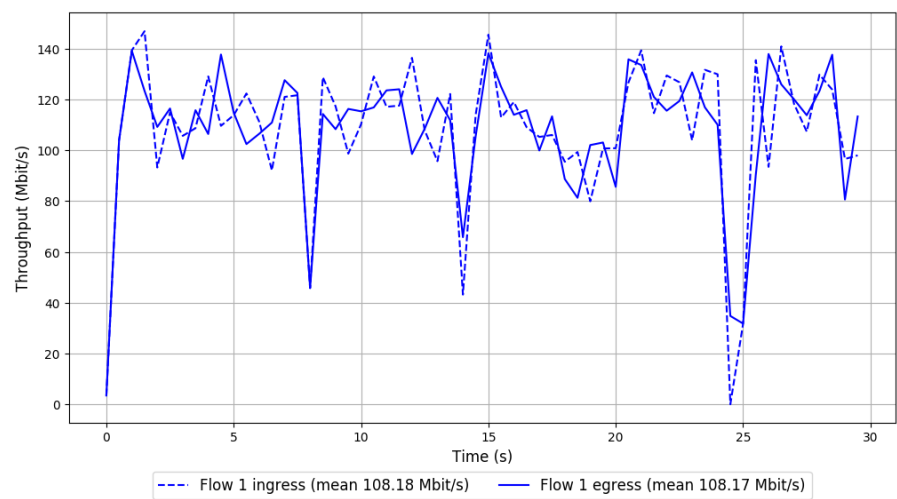
-- Flow 1:

Average throughput: 108.17 Mbit/s

95th percentile per-packet one-way delay: 63.052 ms

Loss rate: 0.01%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2017-12-11 15:29:08

End at: 2017-12-11 15:29:38

Below is generated by plot.py at 2017-12-11 16:23:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 107.90 Mbit/s

95th percentile per-packet one-way delay: 62.414 ms

Loss rate: 0.01%

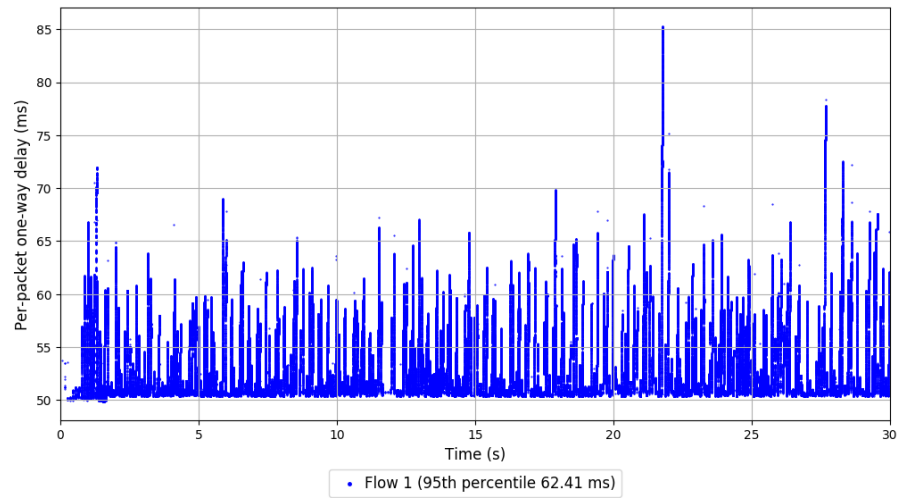
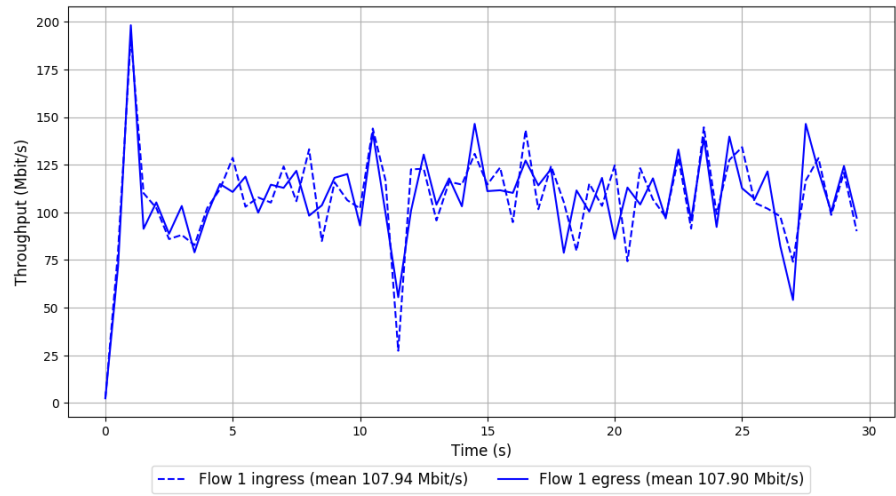
-- Flow 1:

Average throughput: 107.90 Mbit/s

95th percentile per-packet one-way delay: 62.414 ms

Loss rate: 0.01%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2017-12-11 14:01:16

End at: 2017-12-11 14:01:46

Below is generated by plot.py at 2017-12-11 16:23:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.07 Mbit/s

95th percentile per-packet one-way delay: 61.260 ms

Loss rate: 0.03%

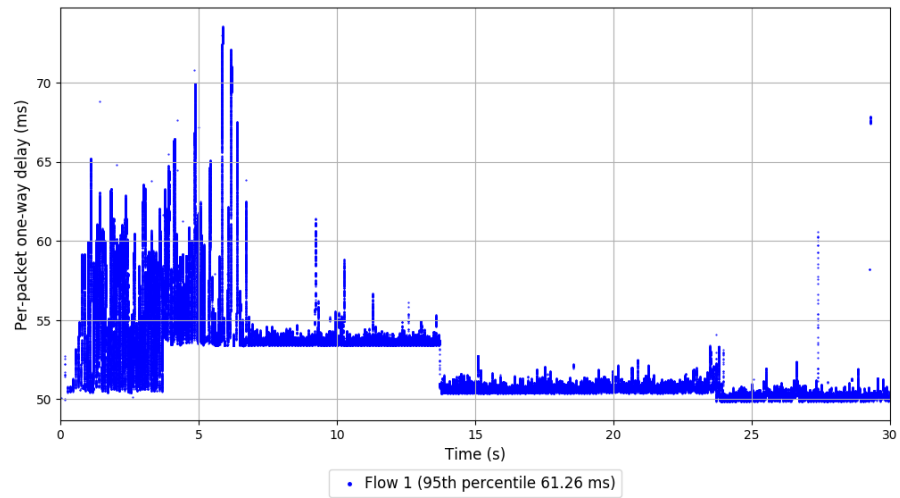
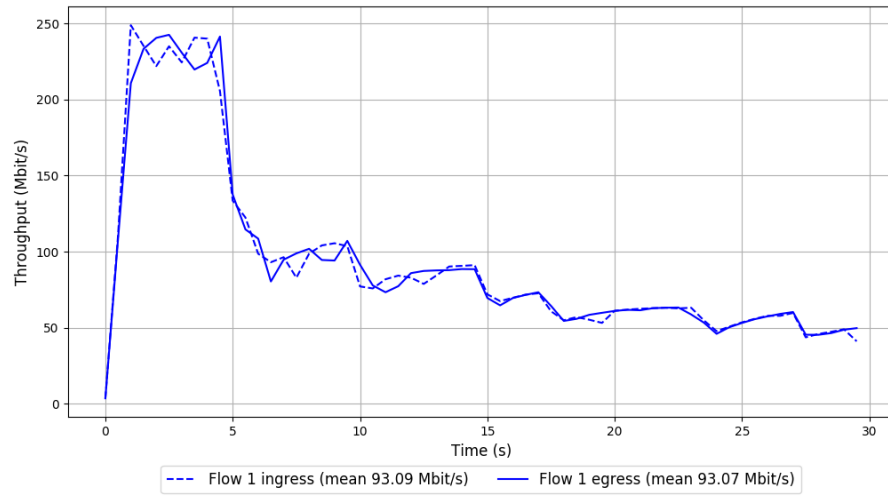
-- Flow 1:

Average throughput: 93.07 Mbit/s

95th percentile per-packet one-way delay: 61.260 ms

Loss rate: 0.03%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2017-12-11 14:11:39

End at: 2017-12-11 14:12:09

Below is generated by plot.py at 2017-12-11 16:23:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 64.01 Mbit/s

95th percentile per-packet one-way delay: 54.373 ms

Loss rate: 0.05%

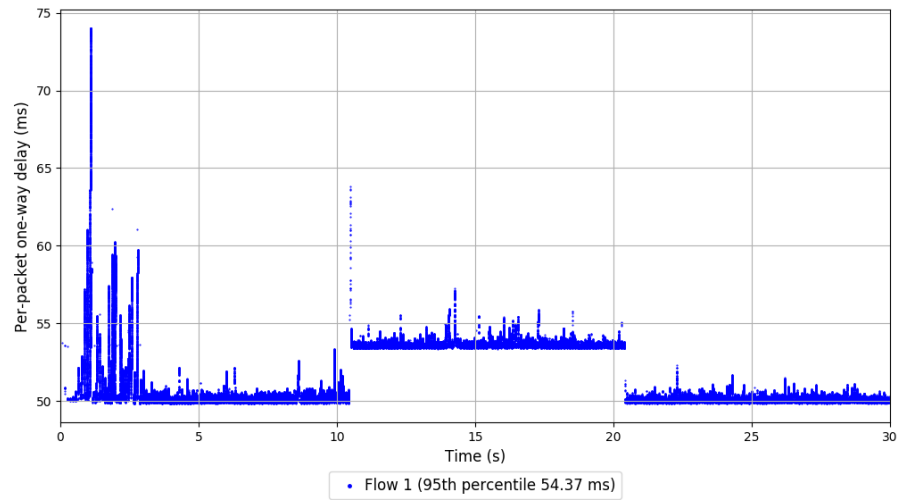
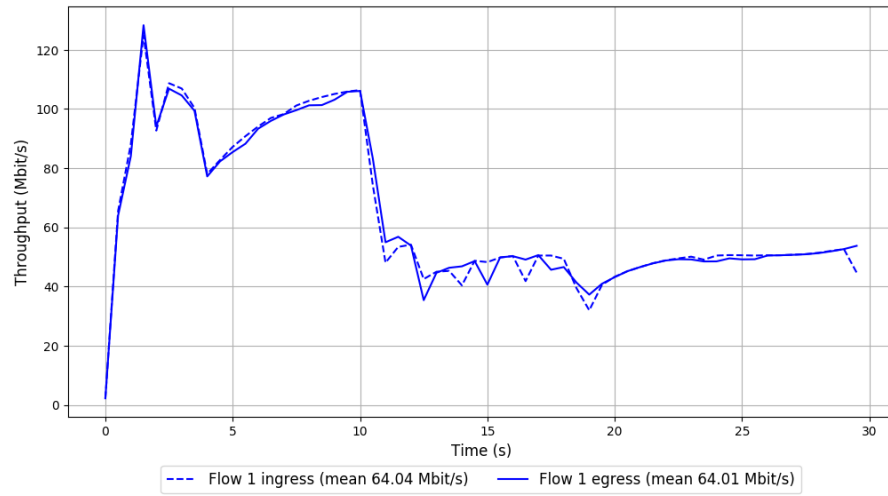
-- Flow 1:

Average throughput: 64.01 Mbit/s

95th percentile per-packet one-way delay: 54.373 ms

Loss rate: 0.05%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2017-12-11 14:21:44

End at: 2017-12-11 14:22:14

Below is generated by plot.py at 2017-12-11 16:23:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 69.27 Mbit/s

95th percentile per-packet one-way delay: 53.417 ms

Loss rate: 0.02%

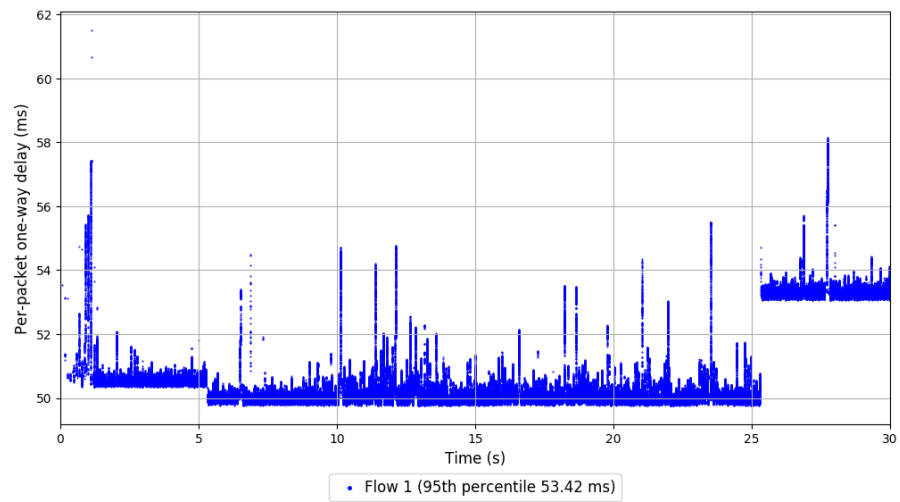
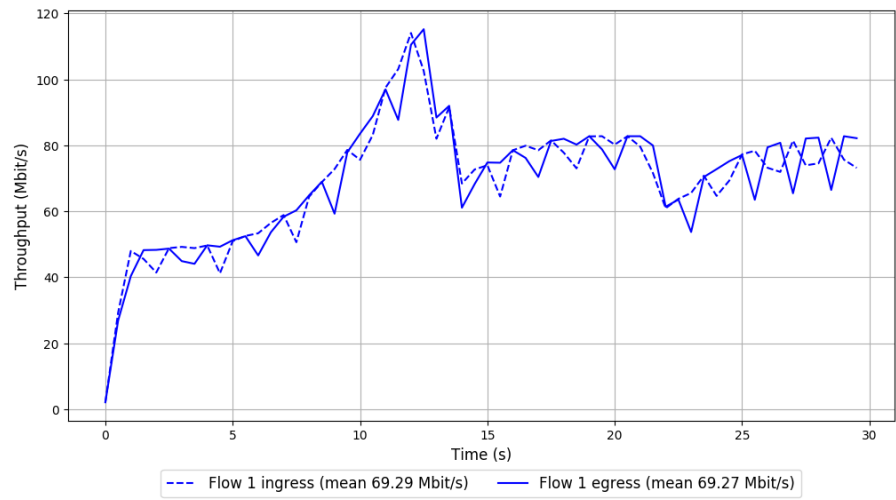
-- Flow 1:

Average throughput: 69.27 Mbit/s

95th percentile per-packet one-way delay: 53.417 ms

Loss rate: 0.02%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2017-12-11 14:31:49

End at: 2017-12-11 14:32:19

Below is generated by plot.py at 2017-12-11 16:23:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 80.63 Mbit/s

95th percentile per-packet one-way delay: 52.799 ms

Loss rate: 0.01%

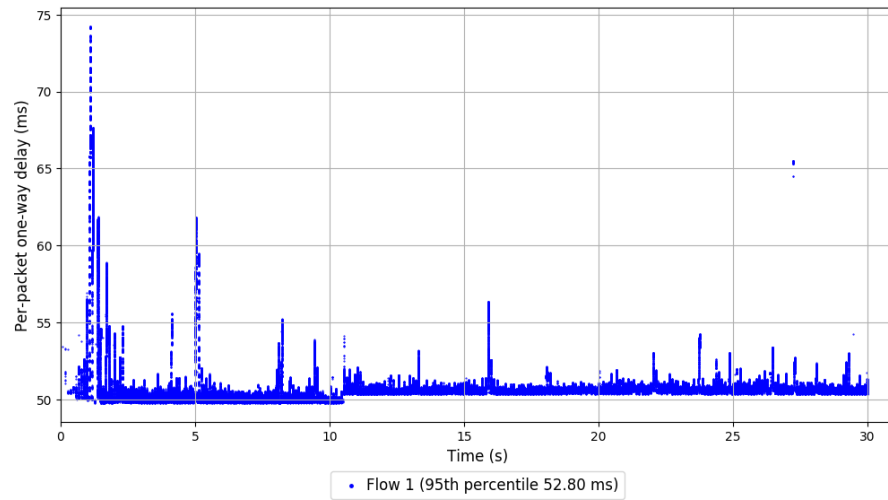
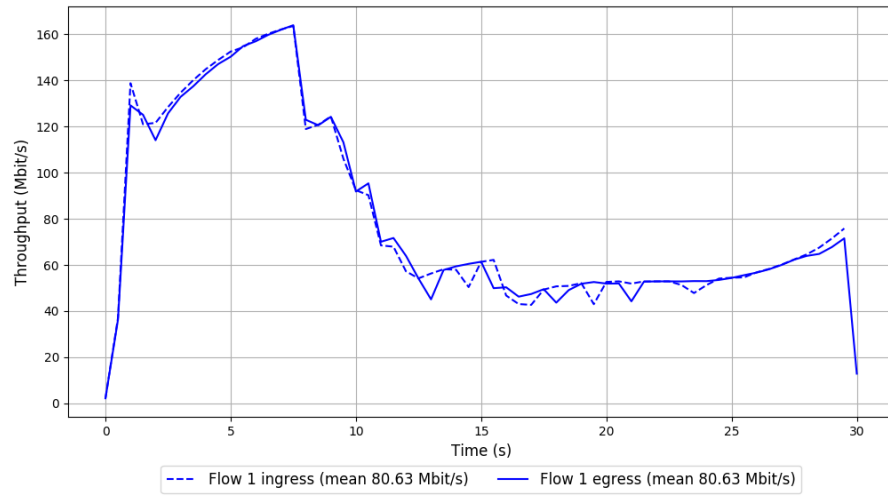
-- Flow 1:

Average throughput: 80.63 Mbit/s

95th percentile per-packet one-way delay: 52.799 ms

Loss rate: 0.01%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2017-12-11 14:42:09

End at: 2017-12-11 14:42:39

Below is generated by plot.py at 2017-12-11 16:23:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.44 Mbit/s

95th percentile per-packet one-way delay: 55.821 ms

Loss rate: 0.07%

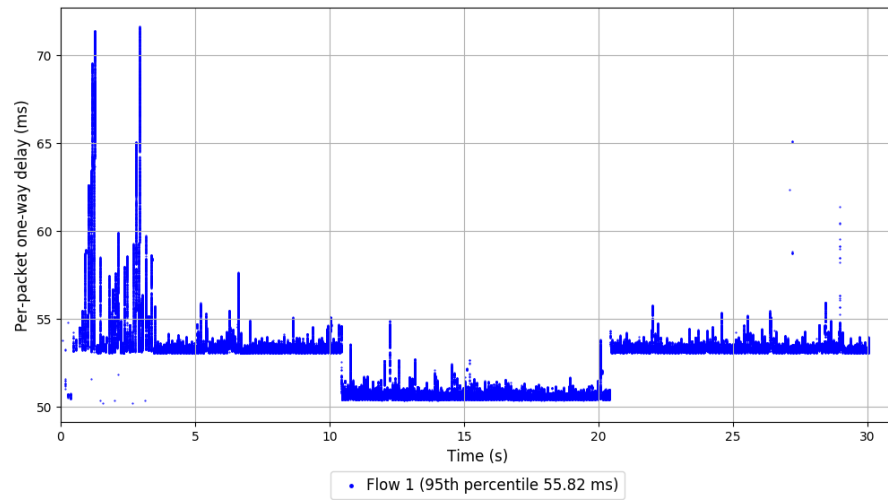
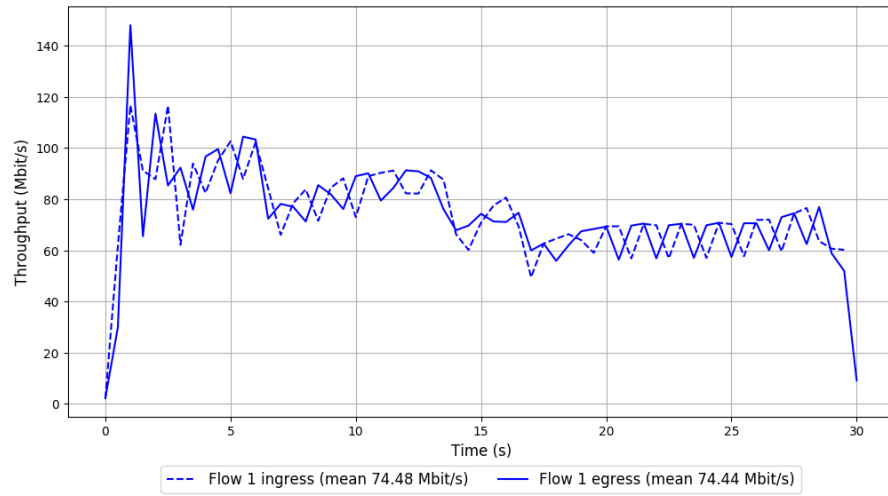
-- Flow 1:

Average throughput: 74.44 Mbit/s

95th percentile per-packet one-way delay: 55.821 ms

Loss rate: 0.07%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2017-12-11 14:52:25

End at: 2017-12-11 14:52:55

Below is generated by plot.py at 2017-12-11 16:24:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 109.05 Mbit/s

95th percentile per-packet one-way delay: 58.306 ms

Loss rate: 0.01%

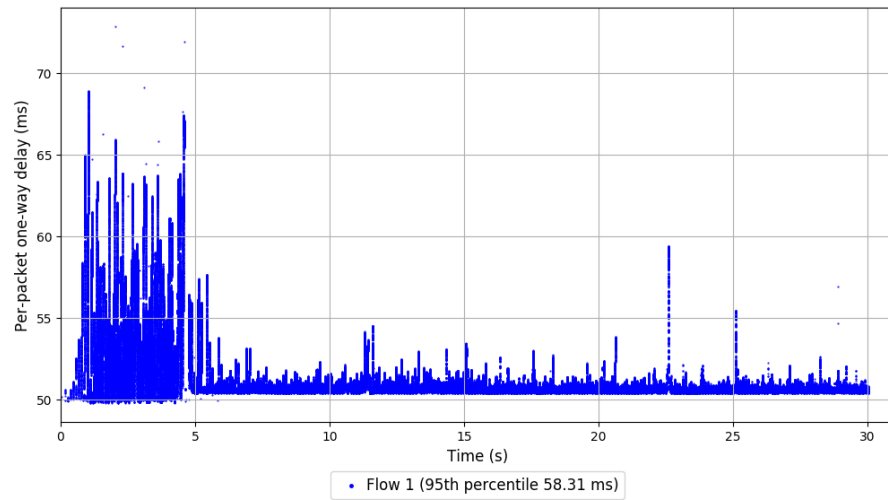
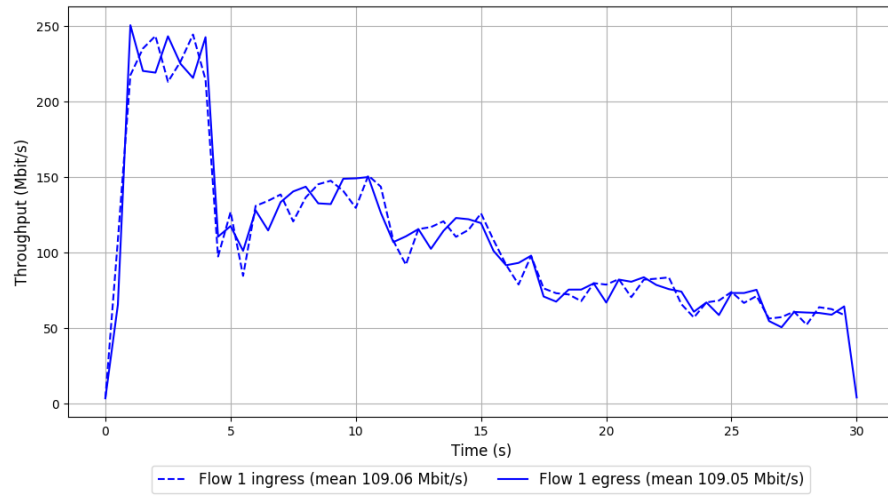
-- Flow 1:

Average throughput: 109.05 Mbit/s

95th percentile per-packet one-way delay: 58.306 ms

Loss rate: 0.01%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2017-12-11 15:02:29

End at: 2017-12-11 15:02:59

Below is generated by plot.py at 2017-12-11 16:24:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 48.49 Mbit/s

95th percentile per-packet one-way delay: 51.781 ms

Loss rate: 0.02%

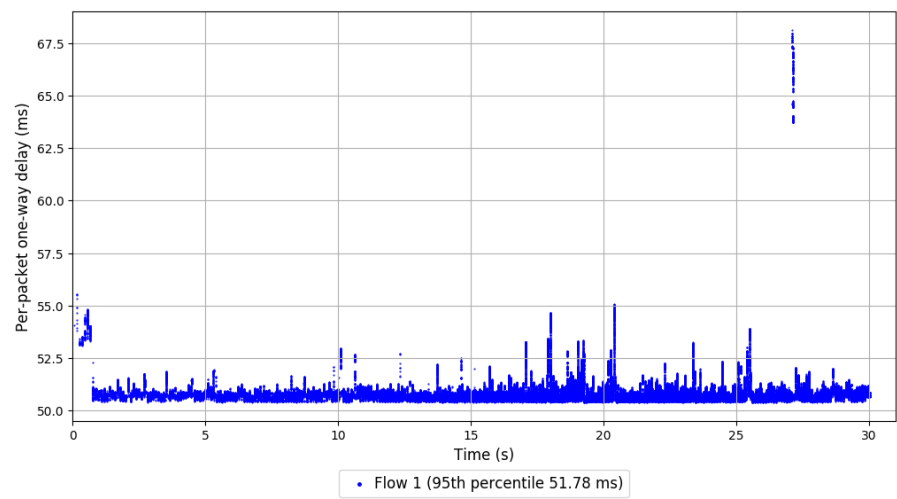
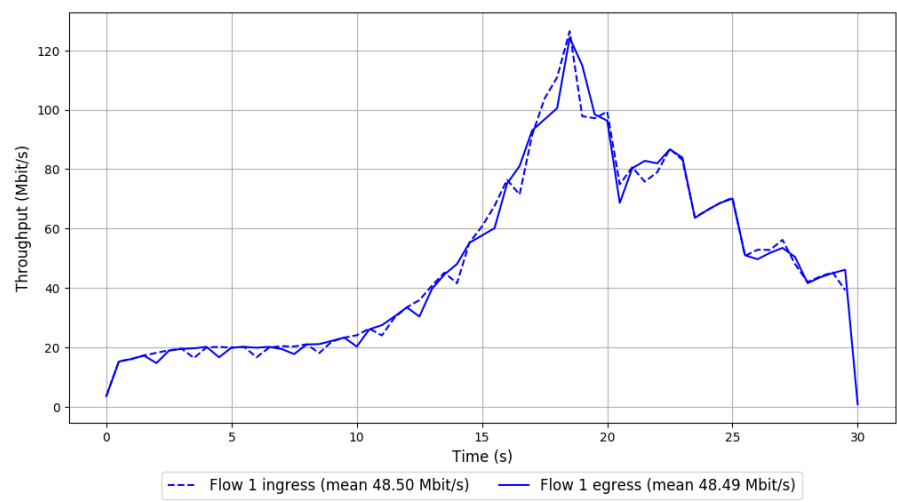
-- Flow 1:

Average throughput: 48.49 Mbit/s

95th percentile per-packet one-way delay: 51.781 ms

Loss rate: 0.02%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2017-12-11 15:12:55

End at: 2017-12-11 15:13:25

Below is generated by plot.py at 2017-12-11 16:24:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.82 Mbit/s

95th percentile per-packet one-way delay: 53.986 ms

Loss rate: 0.02%

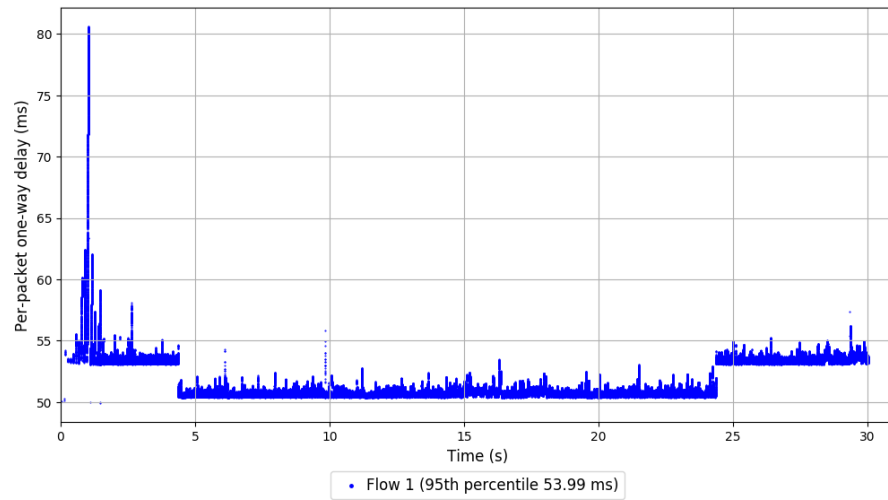
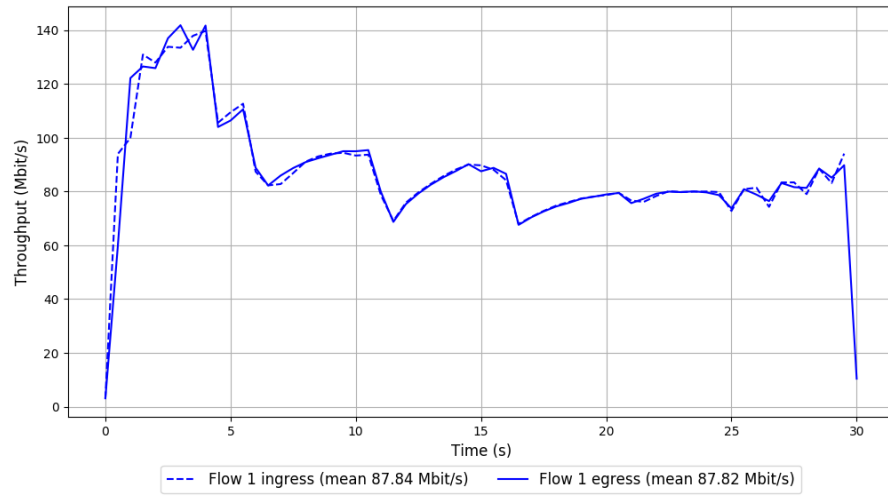
-- Flow 1:

Average throughput: 87.82 Mbit/s

95th percentile per-packet one-way delay: 53.986 ms

Loss rate: 0.02%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2017-12-11 15:23:19

End at: 2017-12-11 15:23:49

Below is generated by plot.py at 2017-12-11 16:24:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 59.21 Mbit/s

95th percentile per-packet one-way delay: 56.784 ms

Loss rate: 0.07%

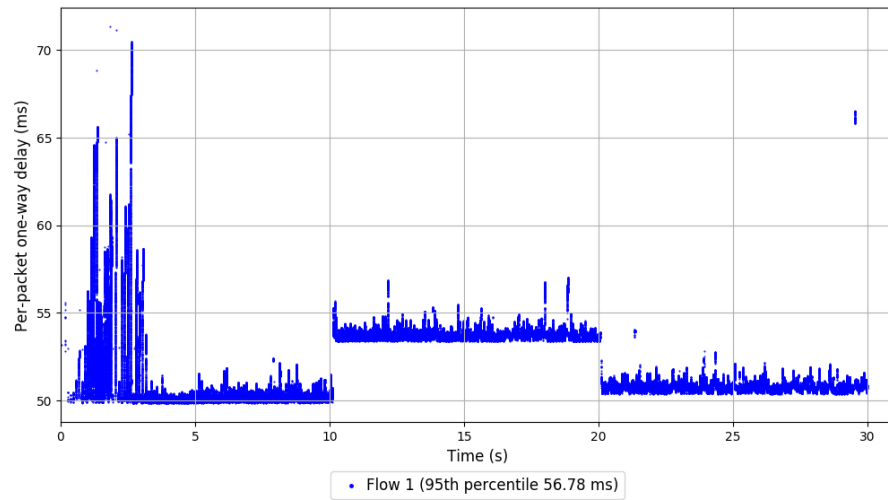
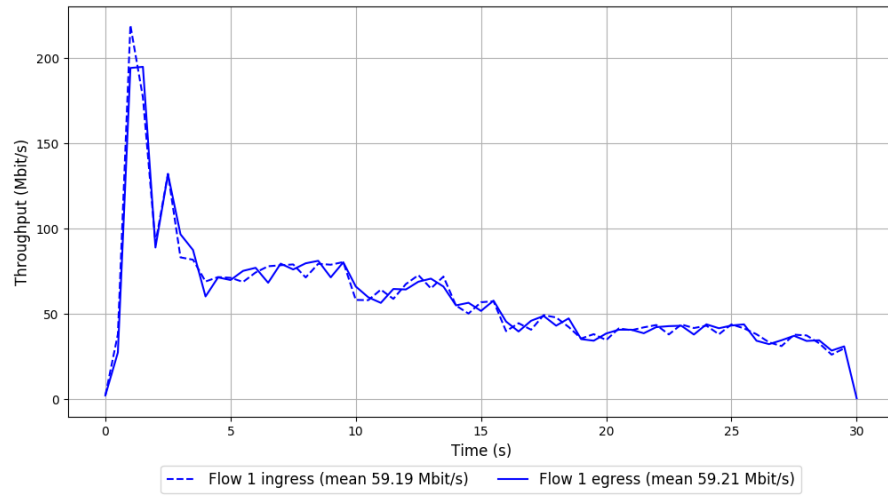
-- Flow 1:

Average throughput: 59.21 Mbit/s

95th percentile per-packet one-way delay: 56.784 ms

Loss rate: 0.07%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2017-12-11 15:33:44

End at: 2017-12-11 15:34:14

Below is generated by plot.py at 2017-12-11 16:24:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 41.16 Mbit/s

95th percentile per-packet one-way delay: 53.676 ms

Loss rate: 0.02%

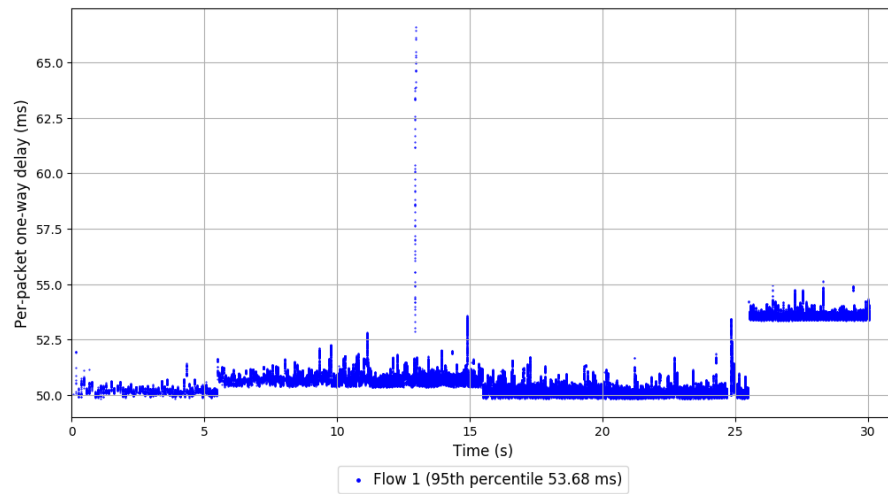
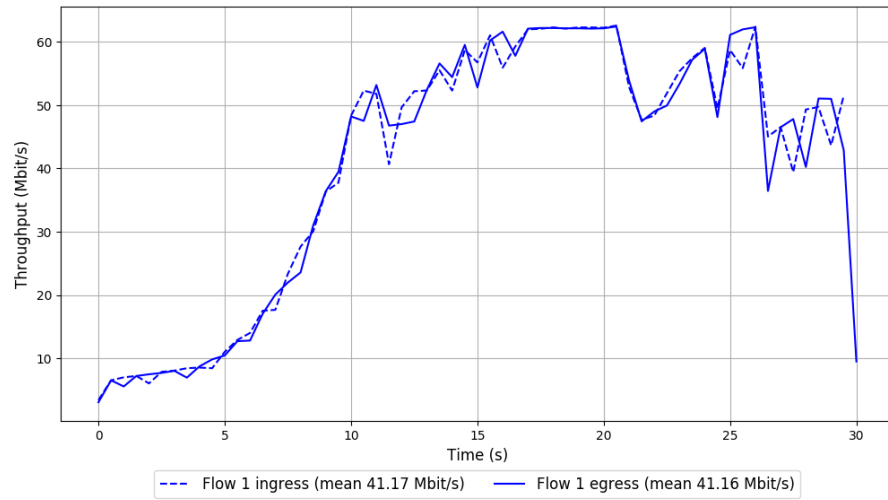
-- Flow 1:

Average throughput: 41.16 Mbit/s

95th percentile per-packet one-way delay: 53.676 ms

Loss rate: 0.02%

Run 10: Report of TCP Cubic — Data Link

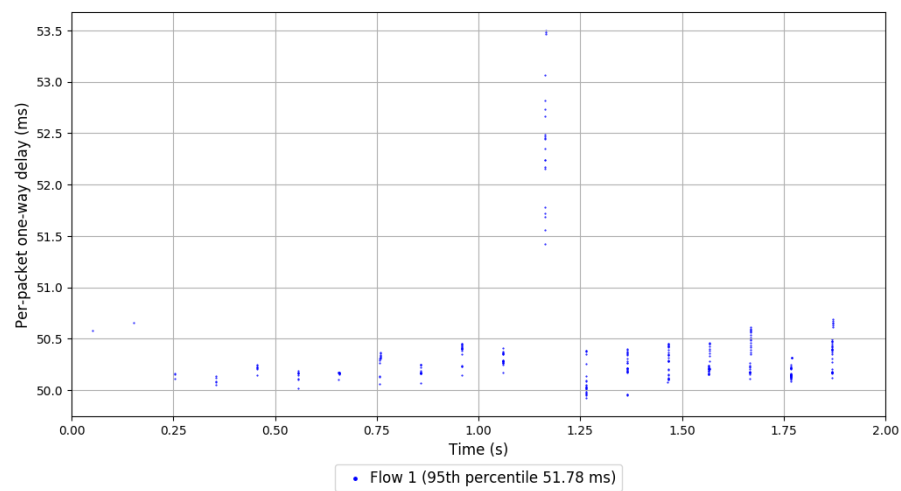
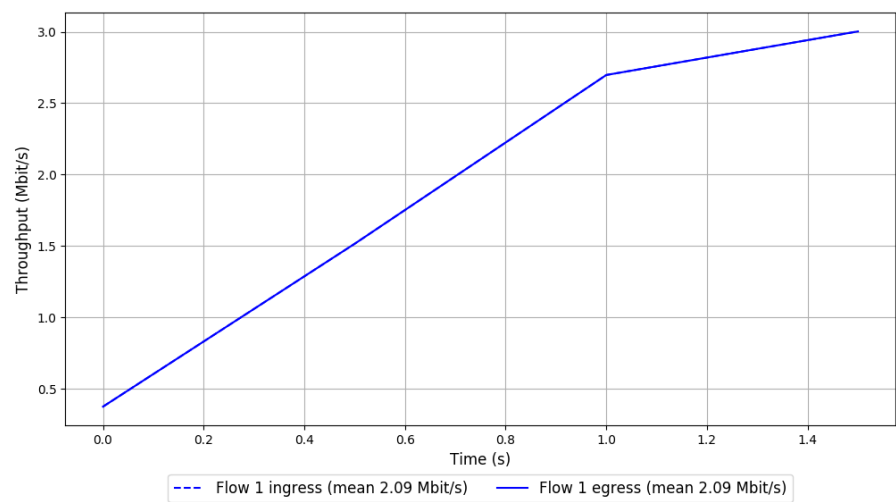


Run 1: Statistics of LEDBAT

Start at: 2017-12-11 13:56:04

End at: 2017-12-11 13:56:34

Run 1: Report of LEDBAT — Data Link

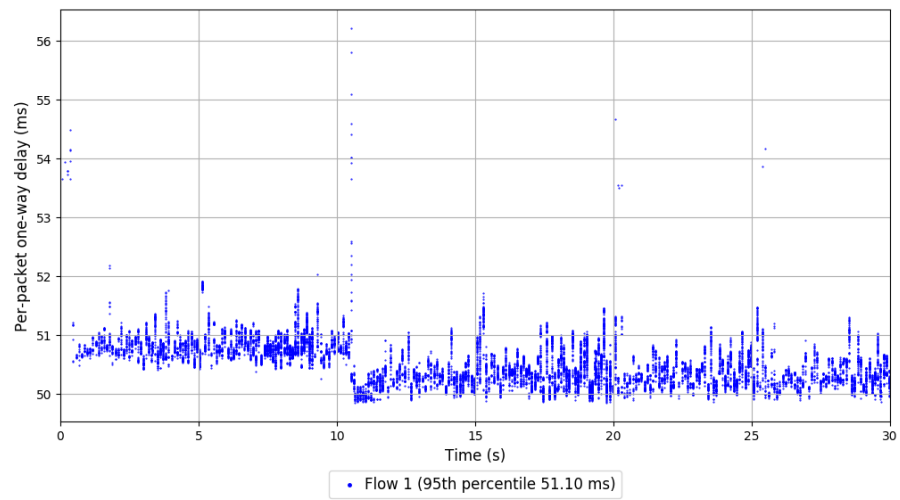
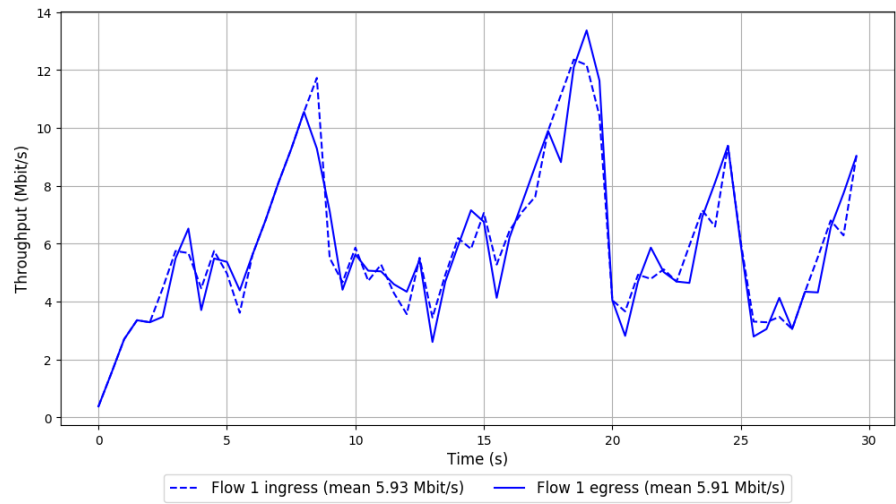


```
Run 2: Statistics of LEDBAT

Start at: 2017-12-11 14:06:29
End at: 2017-12-11 14:06:59

# Below is generated by plot.py at 2017-12-11 16:24:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 5.91 Mbit/s
95th percentile per-packet one-way delay: 51.098 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 5.91 Mbit/s
95th percentile per-packet one-way delay: 51.098 ms
Loss rate: 0.33%
```

Run 2: Report of LEDBAT — Data Link

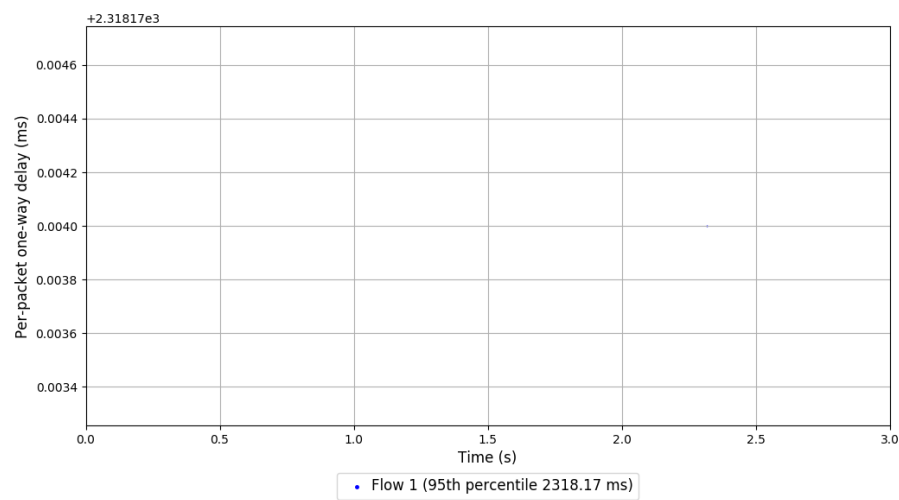
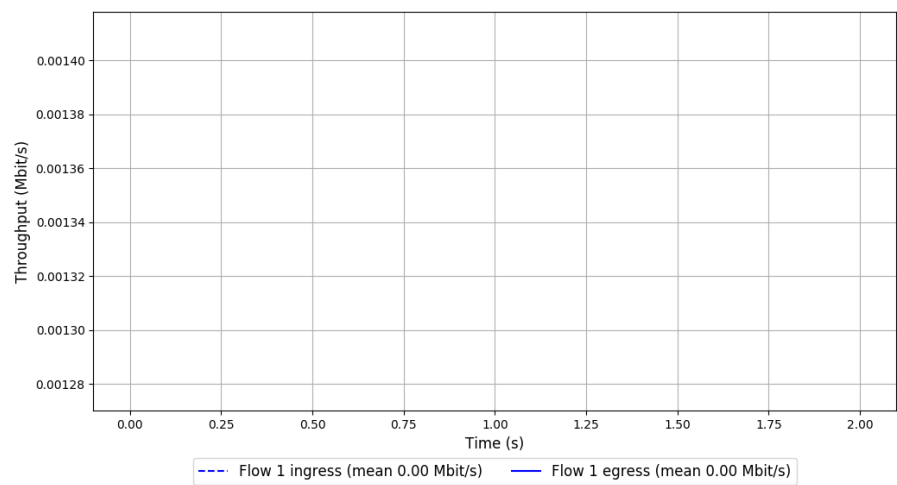


Run 3: Statistics of LEDBAT

Start at: 2017-12-11 14:16:48

End at: 2017-12-11 14:17:18

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2017-12-11 14:26:57

End at: 2017-12-11 14:27:27

Below is generated by plot.py at 2017-12-11 16:24:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.89 Mbit/s

95th percentile per-packet one-way delay: 54.026 ms

Loss rate: 0.57%

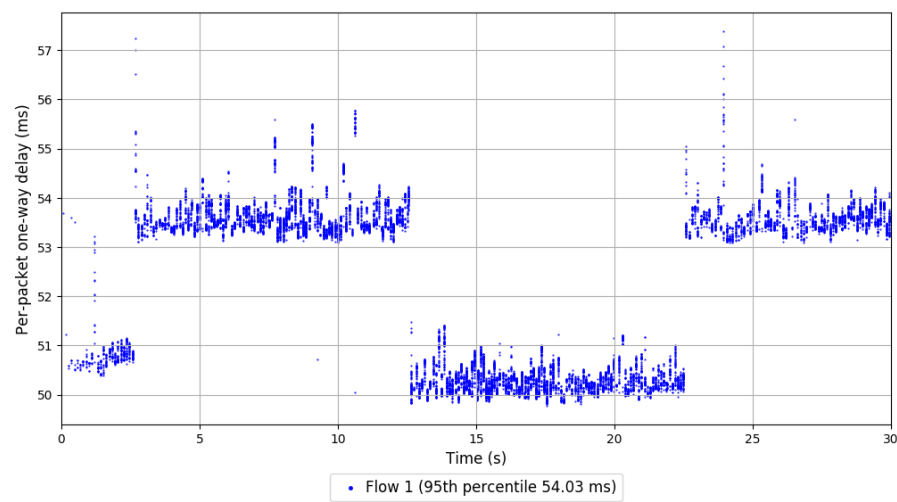
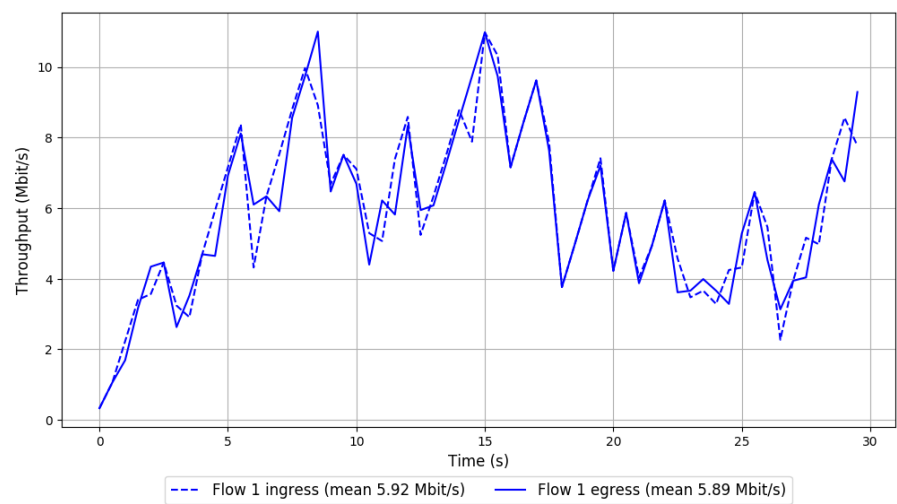
-- Flow 1:

Average throughput: 5.89 Mbit/s

95th percentile per-packet one-way delay: 54.026 ms

Loss rate: 0.57%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2017-12-11 14:37:03

End at: 2017-12-11 14:37:33

Below is generated by plot.py at 2017-12-11 16:24:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.80 Mbit/s

95th percentile per-packet one-way delay: 53.925 ms

Loss rate: 0.16%

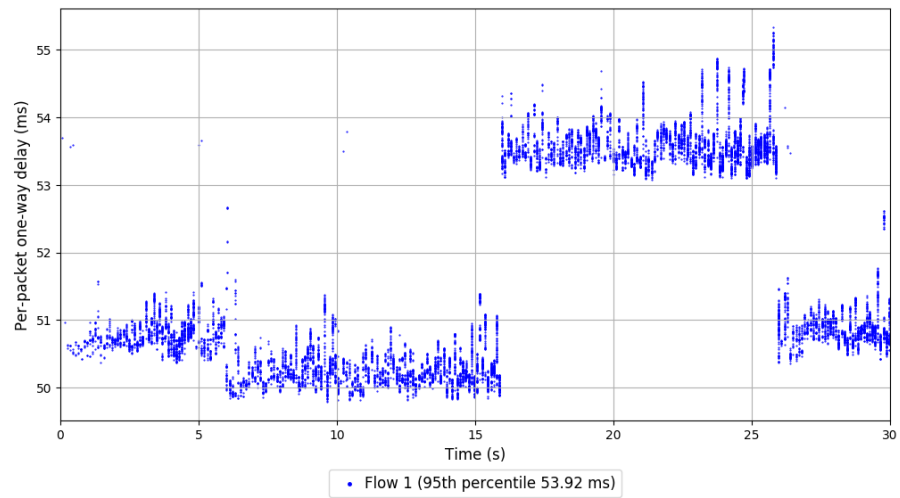
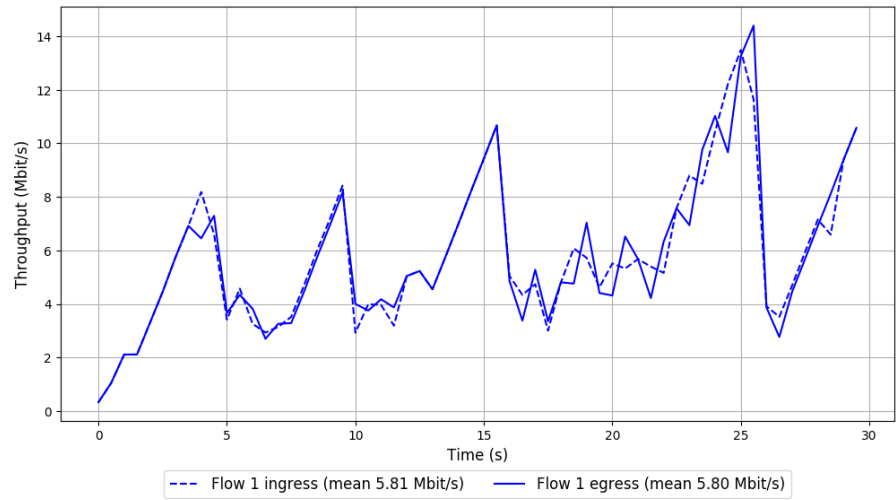
-- Flow 1:

Average throughput: 5.80 Mbit/s

95th percentile per-packet one-way delay: 53.925 ms

Loss rate: 0.16%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2017-12-11 14:47:18

End at: 2017-12-11 14:47:48

Below is generated by plot.py at 2017-12-11 16:24:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.08 Mbit/s

95th percentile per-packet one-way delay: 51.441 ms

Loss rate: 0.44%

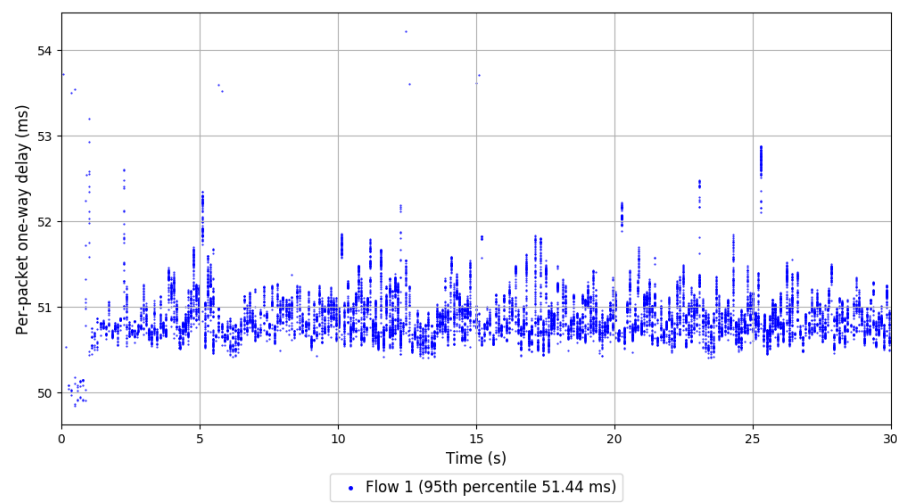
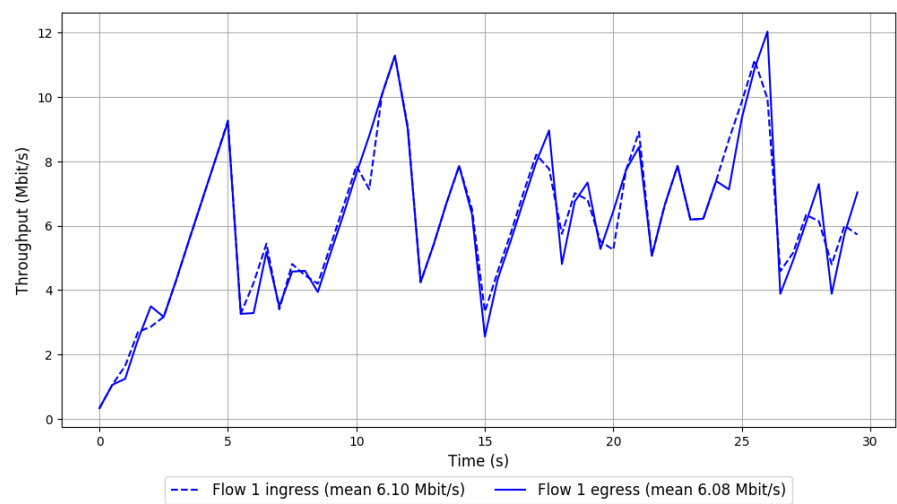
-- Flow 1:

Average throughput: 6.08 Mbit/s

95th percentile per-packet one-way delay: 51.441 ms

Loss rate: 0.44%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2017-12-11 14:57:36

End at: 2017-12-11 14:58:06

Below is generated by plot.py at 2017-12-11 16:24:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.56 Mbit/s

95th percentile per-packet one-way delay: 51.336 ms

Loss rate: 0.57%

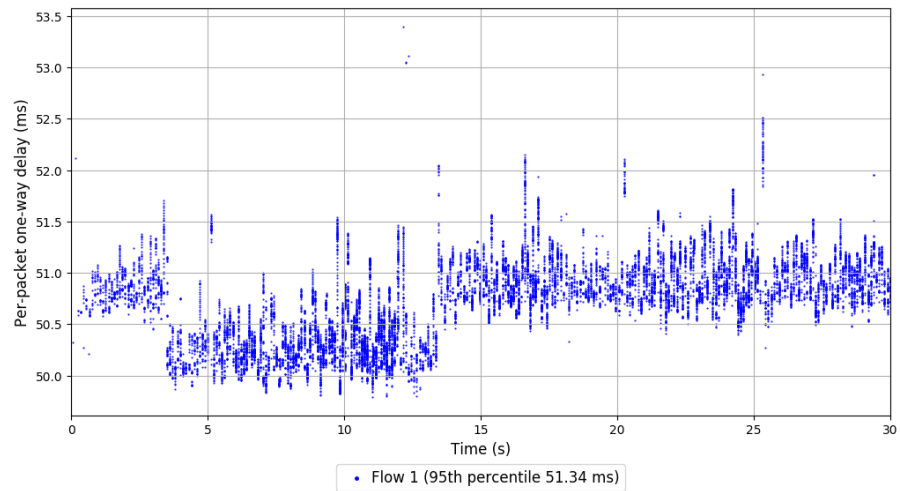
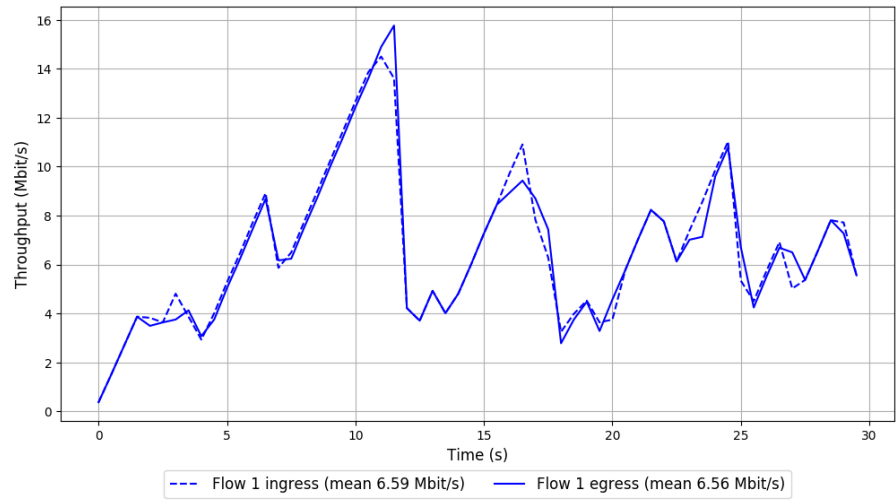
-- Flow 1:

Average throughput: 6.56 Mbit/s

95th percentile per-packet one-way delay: 51.336 ms

Loss rate: 0.57%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2017-12-11 15:07:40

End at: 2017-12-11 15:08:10

Below is generated by plot.py at 2017-12-11 16:24:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.15 Mbit/s

95th percentile per-packet one-way delay: 51.411 ms

Loss rate: 0.69%

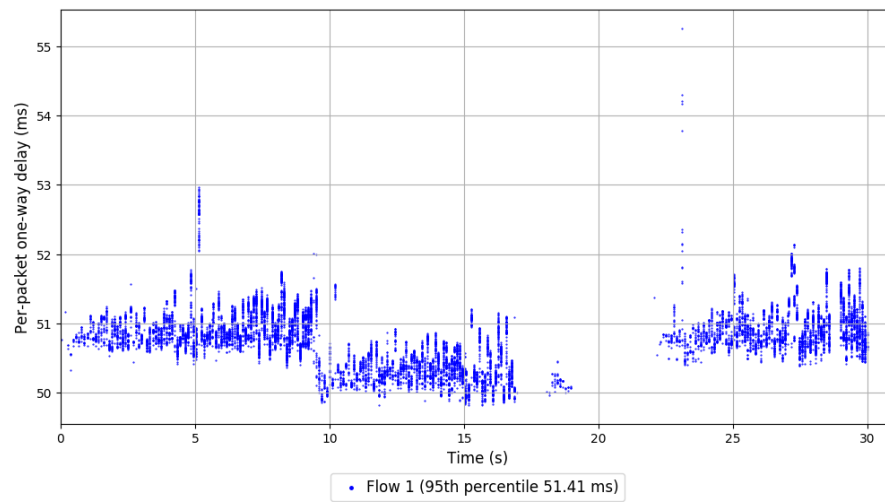
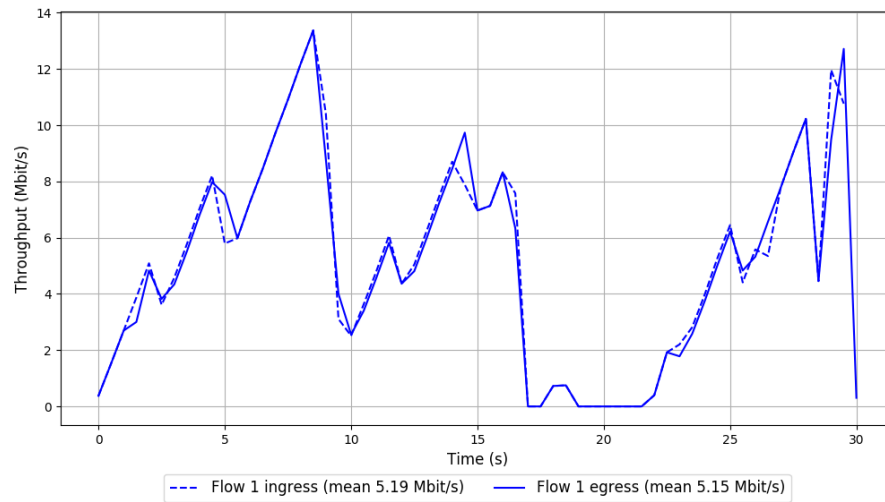
-- Flow 1:

Average throughput: 5.15 Mbit/s

95th percentile per-packet one-way delay: 51.411 ms

Loss rate: 0.69%

Run 8: Report of LEDBAT — Data Link

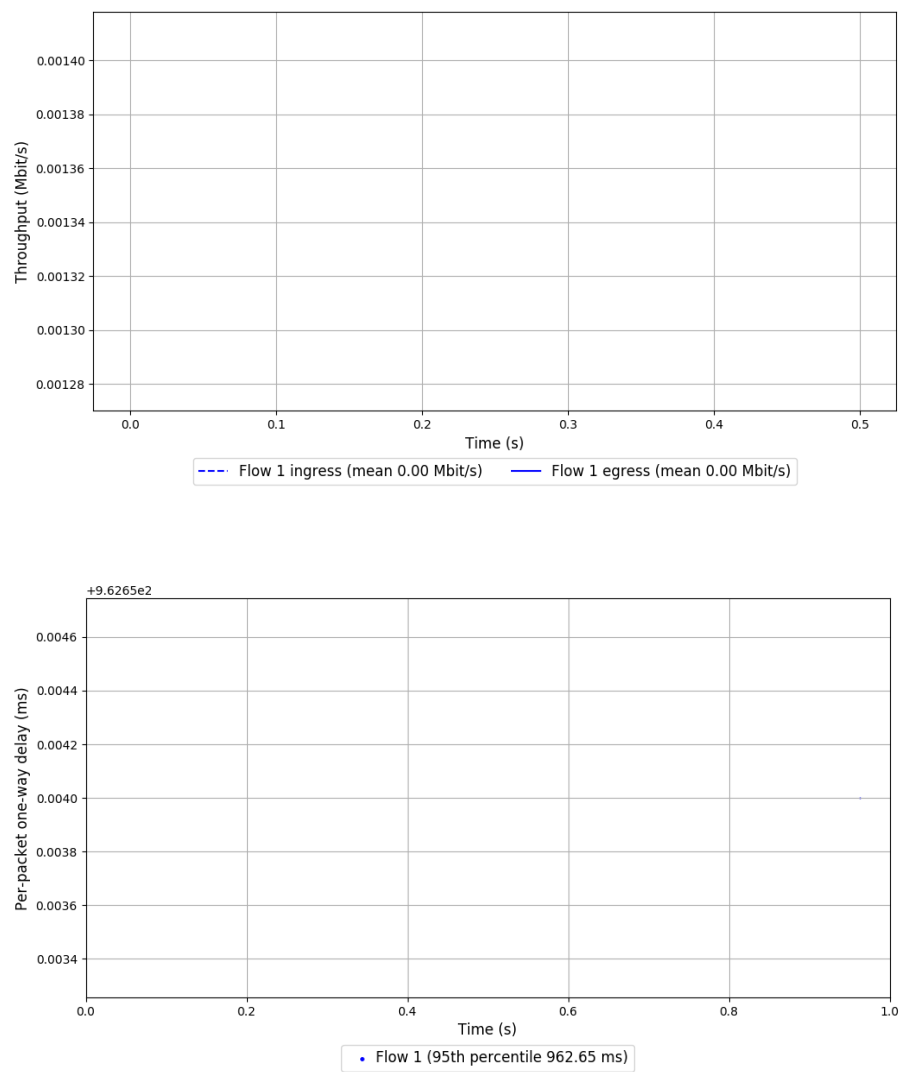


Run 9: Statistics of LEDBAT

Start at: 2017-12-11 15:18:06

End at: 2017-12-11 15:18:36

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2017-12-11 15:28:30

End at: 2017-12-11 15:29:00

Below is generated by plot.py at 2017-12-11 16:24:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.79 Mbit/s

95th percentile per-packet one-way delay: 54.172 ms

Loss rate: 0.51%

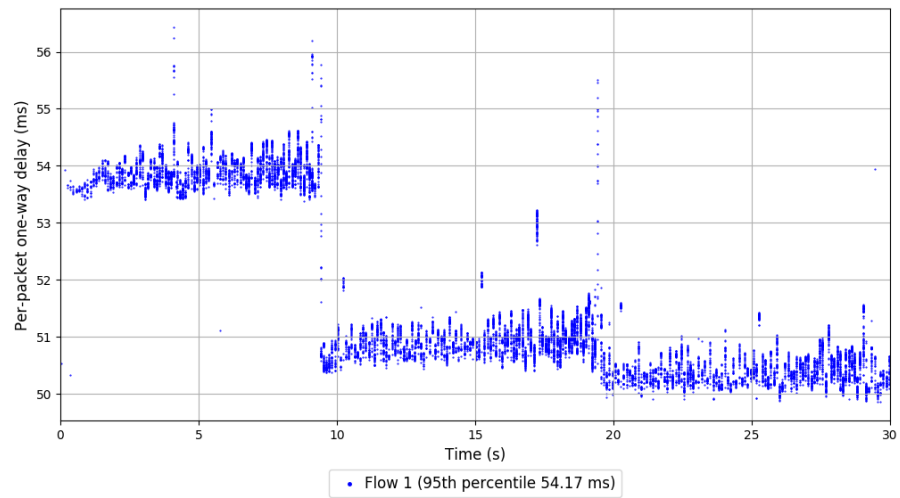
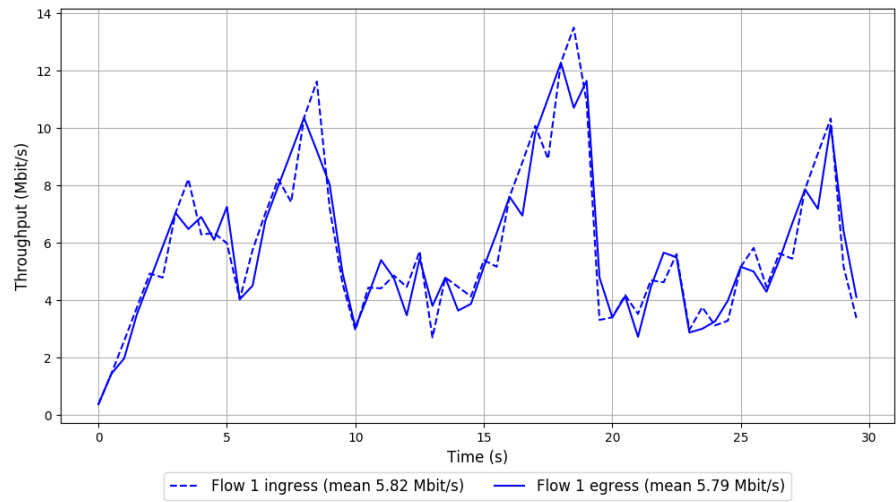
-- Flow 1:

Average throughput: 5.79 Mbit/s

95th percentile per-packet one-way delay: 54.172 ms

Loss rate: 0.51%

Run 10: Report of LEDBAT — Data Link

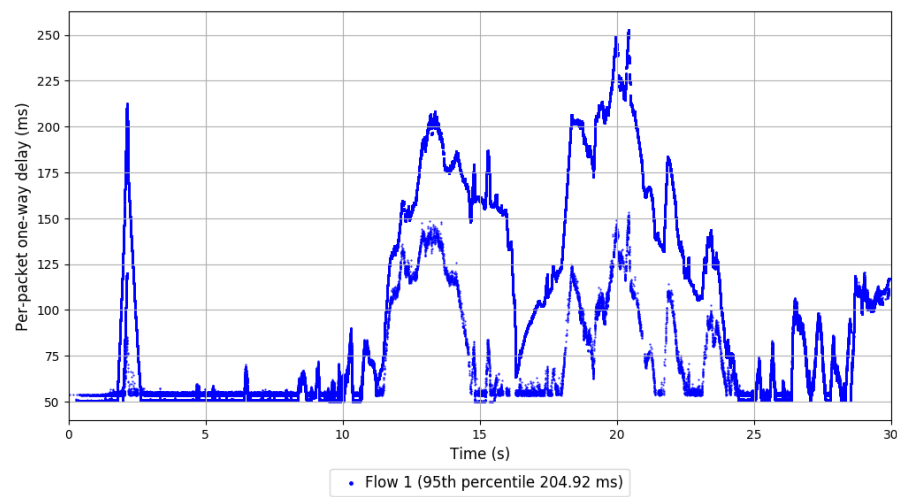
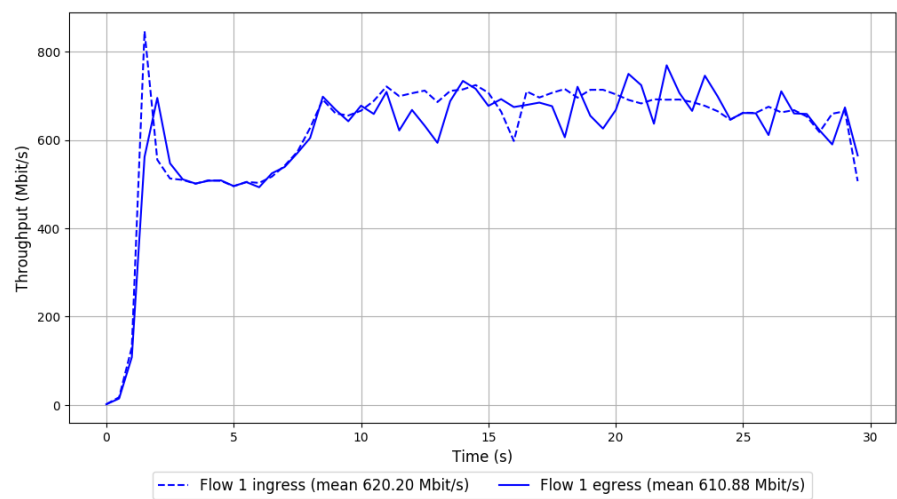


```
Run 1: Statistics of PCC

Start at: 2017-12-11 13:52:50
End at: 2017-12-11 13:53:20

# Below is generated by plot.py at 2017-12-11 16:34:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 610.88 Mbit/s
95th percentile per-packet one-way delay: 204.922 ms
Loss rate: 1.50%
-- Flow 1:
Average throughput: 610.88 Mbit/s
95th percentile per-packet one-way delay: 204.922 ms
Loss rate: 1.50%
```

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2017-12-11 14:03:16

End at: 2017-12-11 14:03:46

Below is generated by plot.py at 2017-12-11 16:34:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 590.64 Mbit/s

95th percentile per-packet one-way delay: 132.340 ms

Loss rate: 1.03%

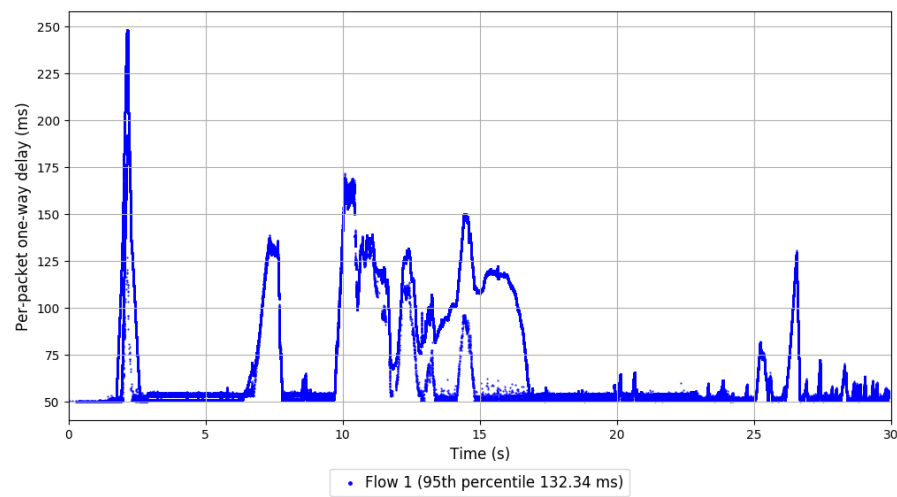
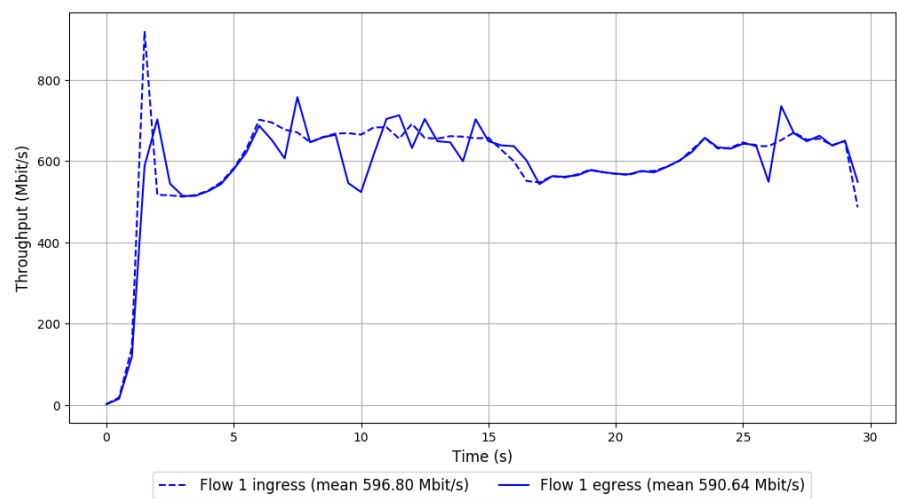
-- Flow 1:

Average throughput: 590.64 Mbit/s

95th percentile per-packet one-way delay: 132.340 ms

Loss rate: 1.03%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2017-12-11 14:13:38

End at: 2017-12-11 14:14:08

Below is generated by plot.py at 2017-12-11 16:34:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 536.36 Mbit/s

95th percentile per-packet one-way delay: 149.252 ms

Loss rate: 1.45%

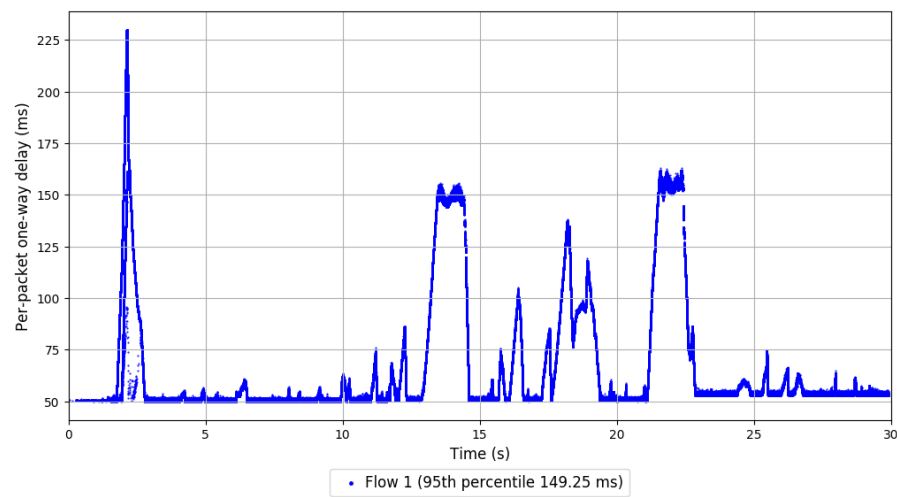
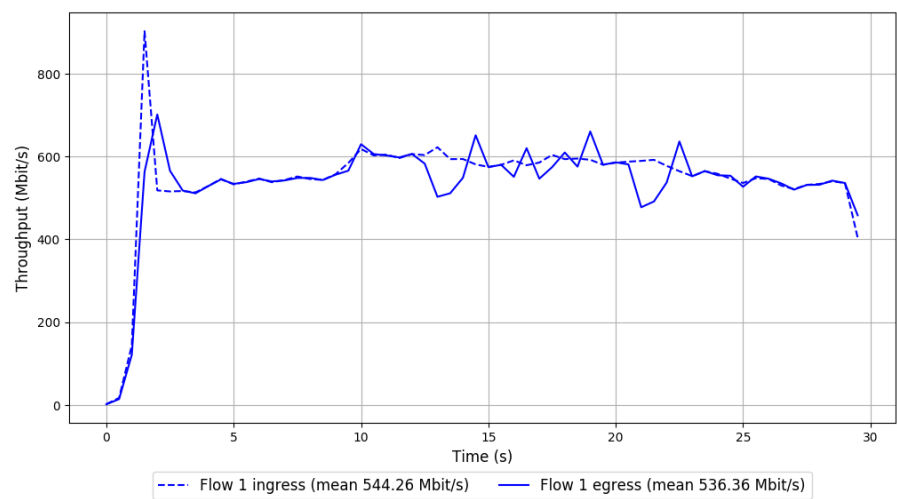
-- Flow 1:

Average throughput: 536.36 Mbit/s

95th percentile per-packet one-way delay: 149.252 ms

Loss rate: 1.45%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2017-12-11 14:23:45

End at: 2017-12-11 14:24:15

Below is generated by plot.py at 2017-12-11 16:34:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 551.06 Mbit/s

95th percentile per-packet one-way delay: 122.033 ms

Loss rate: 0.45%

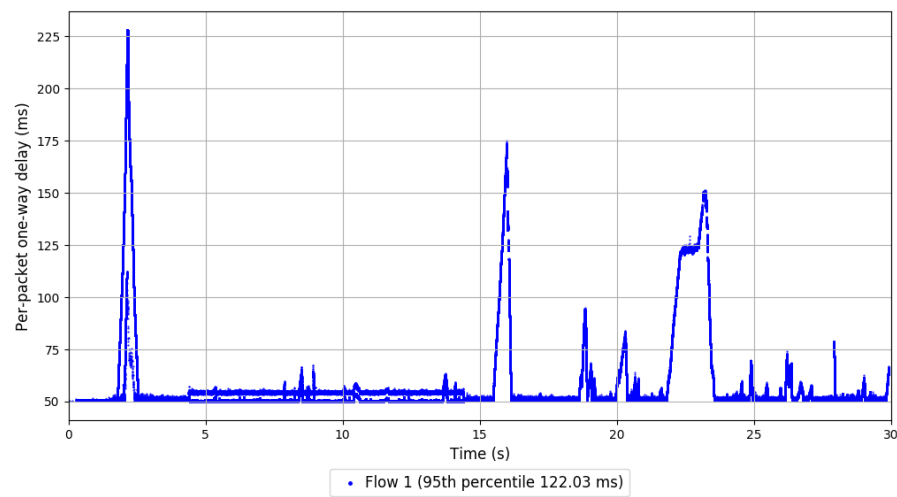
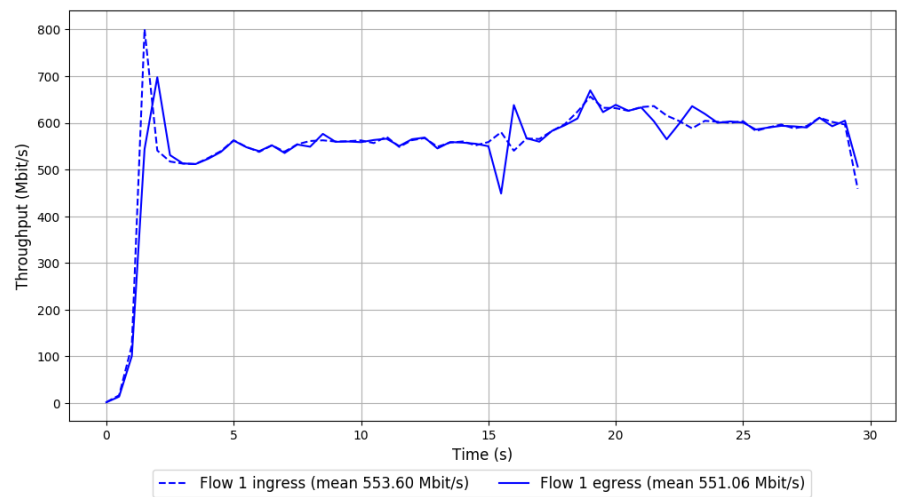
-- Flow 1:

Average throughput: 551.06 Mbit/s

95th percentile per-packet one-way delay: 122.033 ms

Loss rate: 0.45%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2017-12-11 14:33:49

End at: 2017-12-11 14:34:19

Below is generated by plot.py at 2017-12-11 16:34:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 588.75 Mbit/s

95th percentile per-packet one-way delay: 117.032 ms

Loss rate: 0.48%

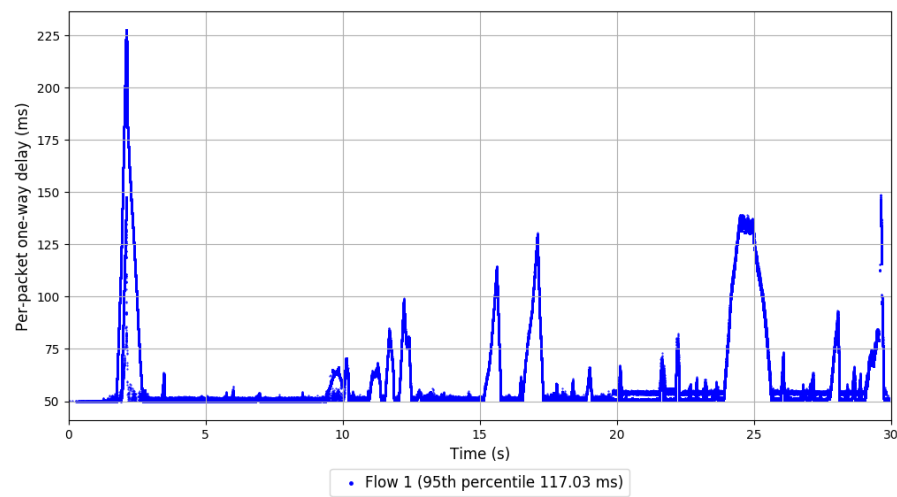
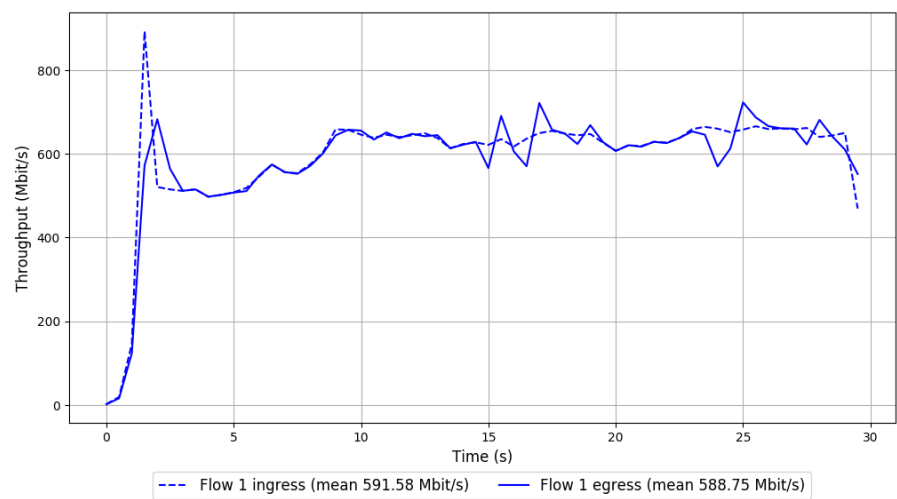
-- Flow 1:

Average throughput: 588.75 Mbit/s

95th percentile per-packet one-way delay: 117.032 ms

Loss rate: 0.48%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2017-12-11 14:44:07

End at: 2017-12-11 14:44:37

Below is generated by plot.py at 2017-12-11 16:34:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 565.57 Mbit/s

95th percentile per-packet one-way delay: 90.510 ms

Loss rate: 1.30%

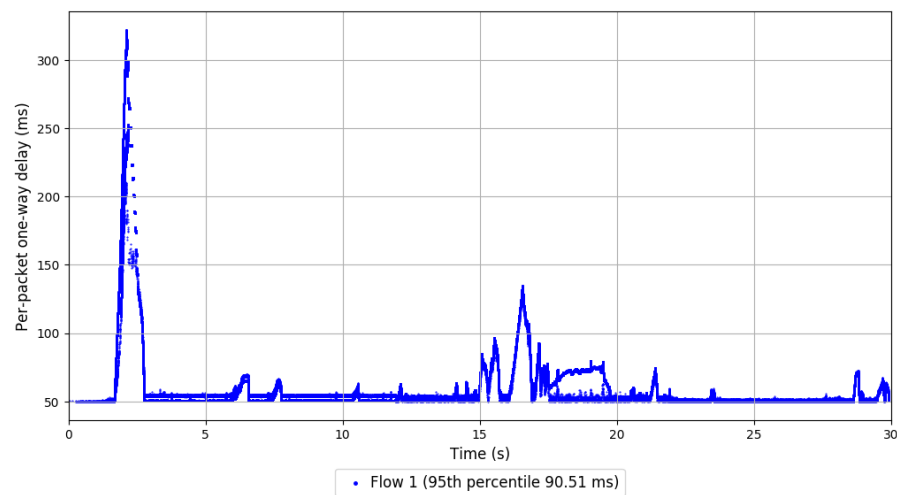
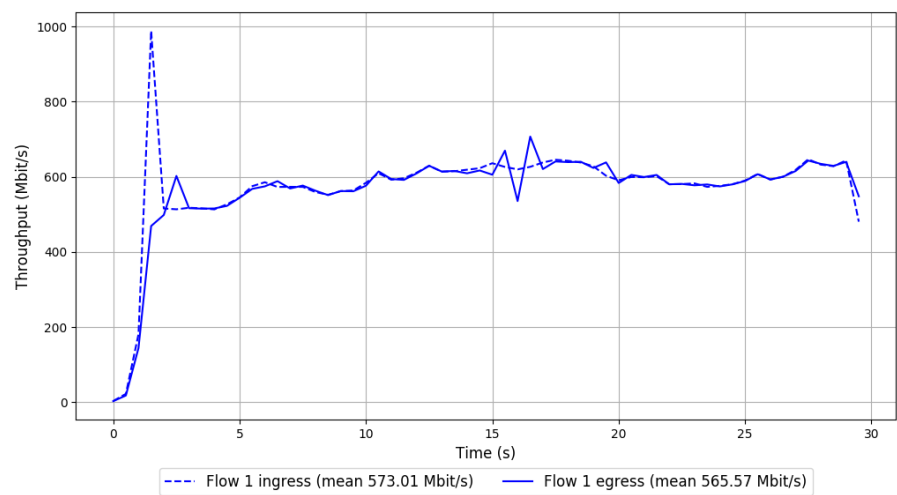
-- Flow 1:

Average throughput: 565.57 Mbit/s

95th percentile per-packet one-way delay: 90.510 ms

Loss rate: 1.30%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2017-12-11 14:54:26

End at: 2017-12-11 14:54:56

Below is generated by plot.py at 2017-12-11 16:34:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 577.20 Mbit/s

95th percentile per-packet one-way delay: 123.494 ms

Loss rate: 1.03%

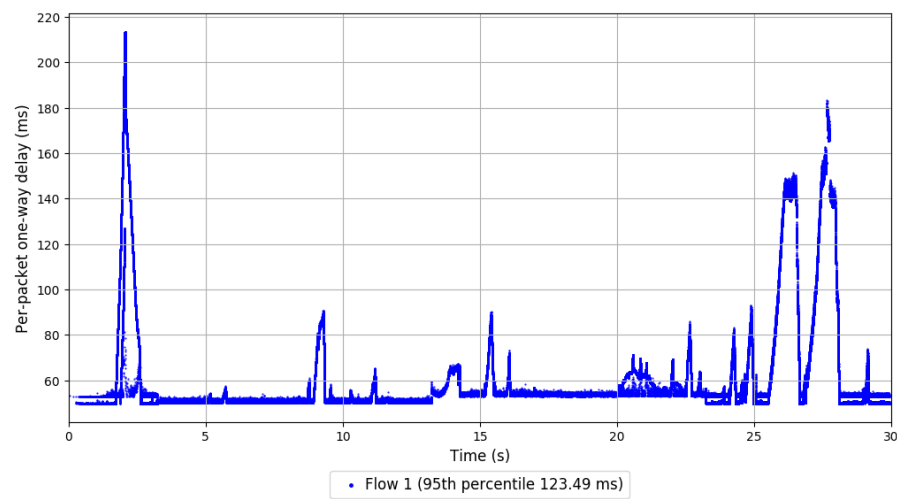
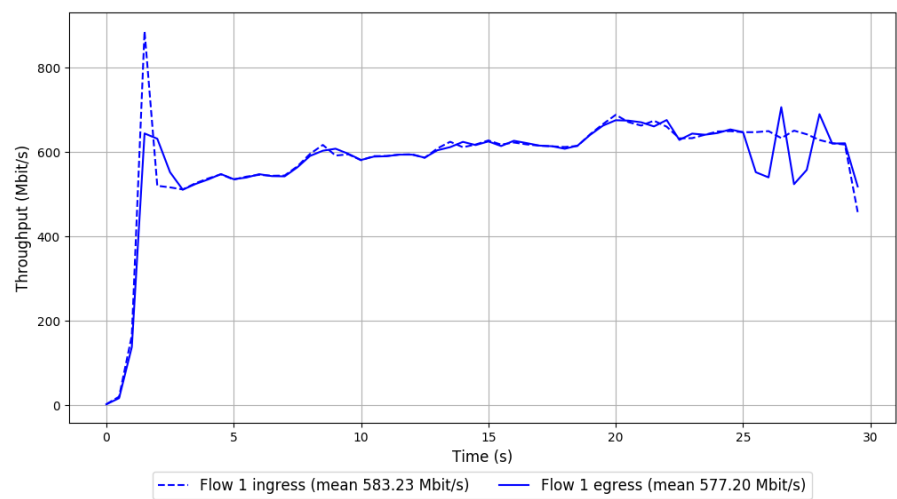
-- Flow 1:

Average throughput: 577.20 Mbit/s

95th percentile per-packet one-way delay: 123.494 ms

Loss rate: 1.03%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2017-12-11 15:04:28

End at: 2017-12-11 15:04:58

Below is generated by plot.py at 2017-12-11 16:34:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 557.78 Mbit/s

95th percentile per-packet one-way delay: 104.725 ms

Loss rate: 0.70%

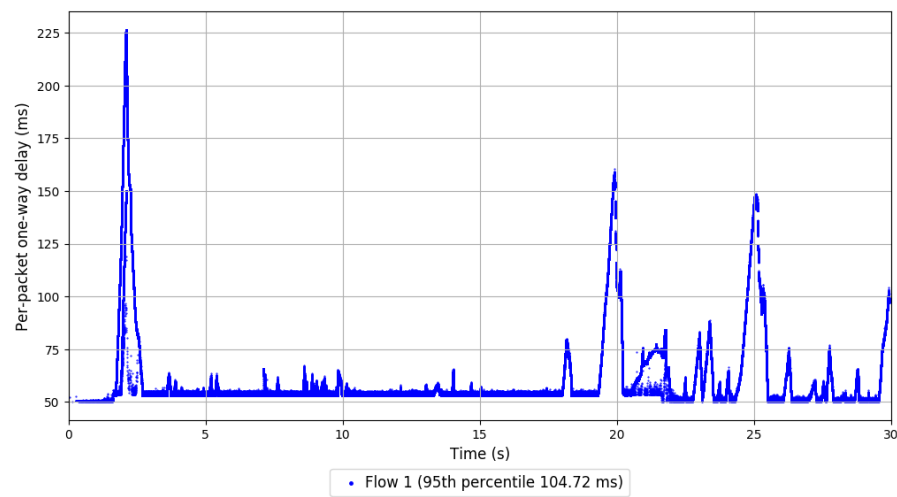
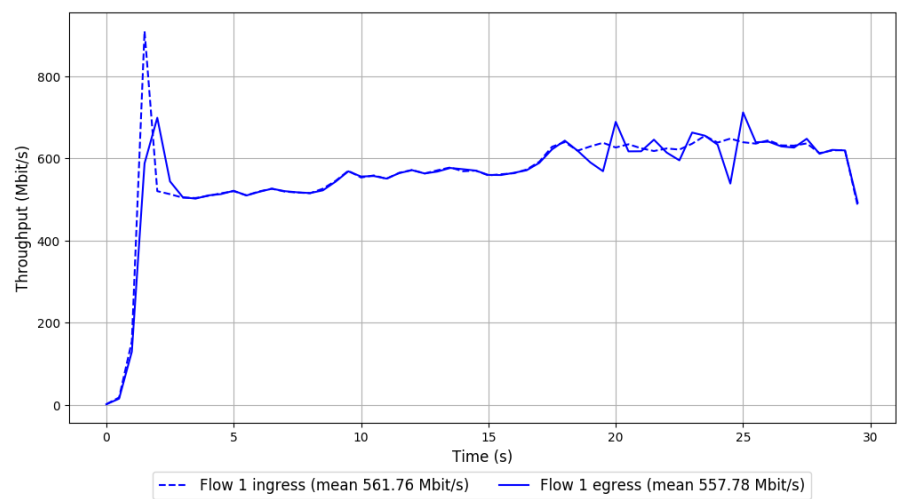
-- Flow 1:

Average throughput: 557.78 Mbit/s

95th percentile per-packet one-way delay: 104.725 ms

Loss rate: 0.70%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2017-12-11 15:14:56

End at: 2017-12-11 15:15:26

Below is generated by plot.py at 2017-12-11 16:42:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 549.52 Mbit/s

95th percentile per-packet one-way delay: 125.133 ms

Loss rate: 0.91%

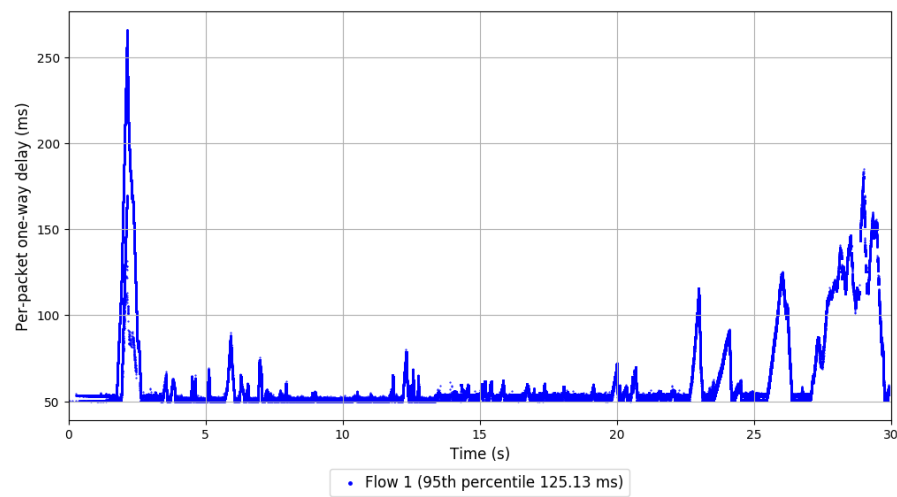
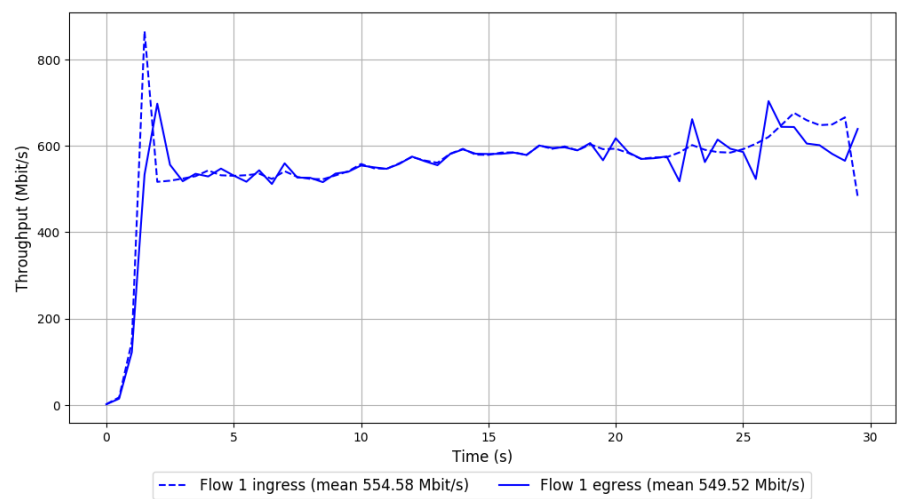
-- Flow 1:

Average throughput: 549.52 Mbit/s

95th percentile per-packet one-way delay: 125.133 ms

Loss rate: 0.91%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2017-12-11 15:25:17

End at: 2017-12-11 15:25:47

Below is generated by plot.py at 2017-12-11 16:43:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 575.17 Mbit/s

95th percentile per-packet one-way delay: 141.641 ms

Loss rate: 1.47%

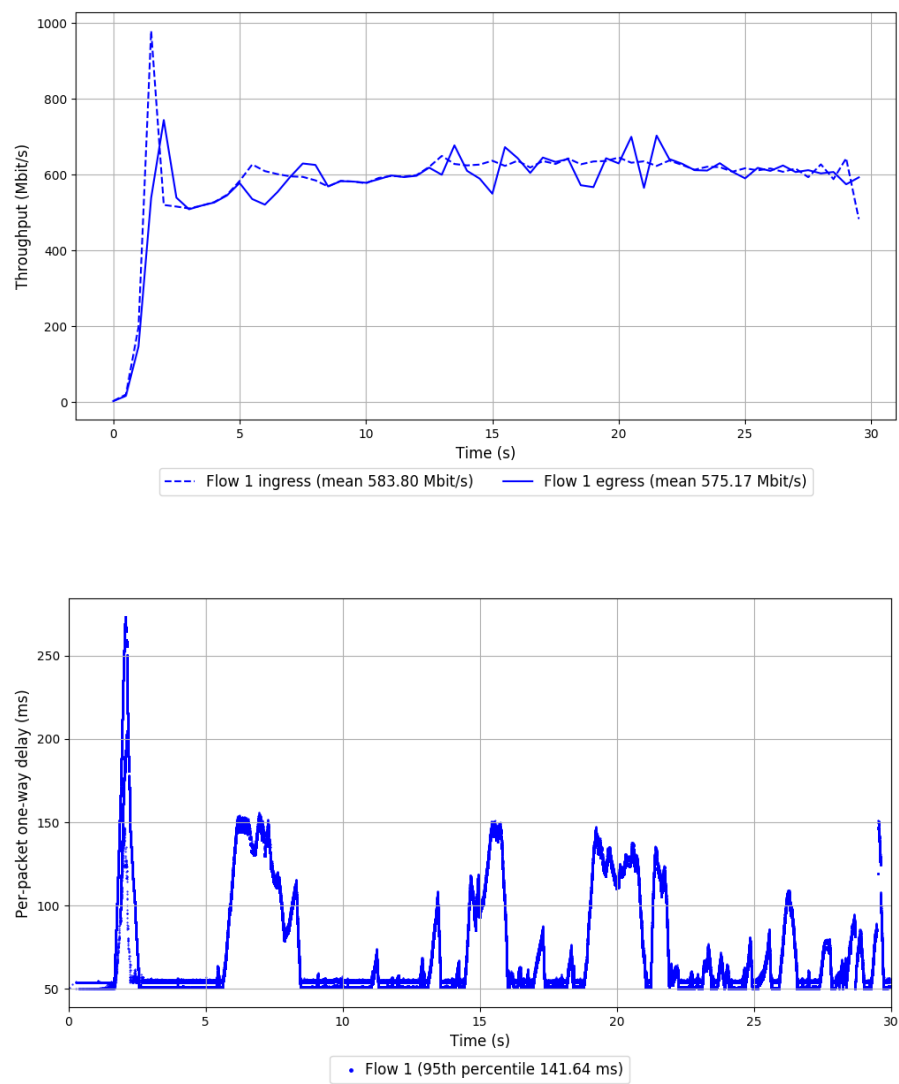
-- Flow 1:

Average throughput: 575.17 Mbit/s

95th percentile per-packet one-way delay: 141.641 ms

Loss rate: 1.47%

Run 10: Report of PCC — Data Link

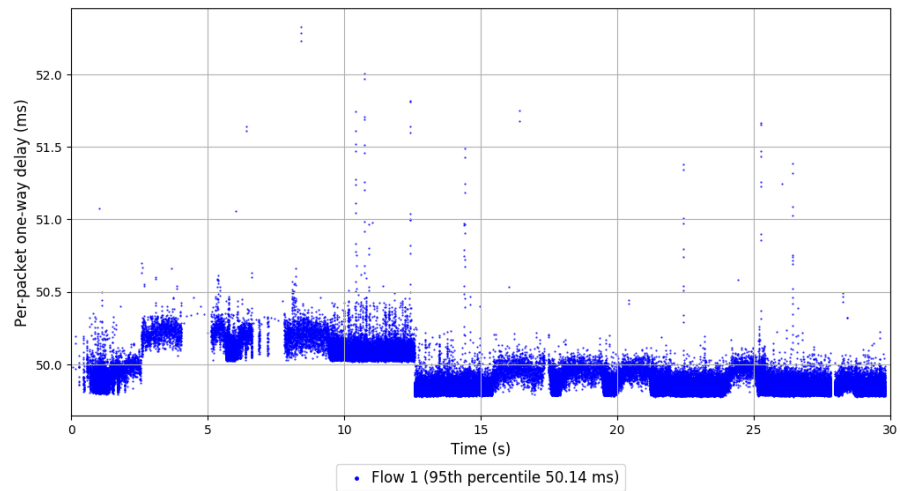
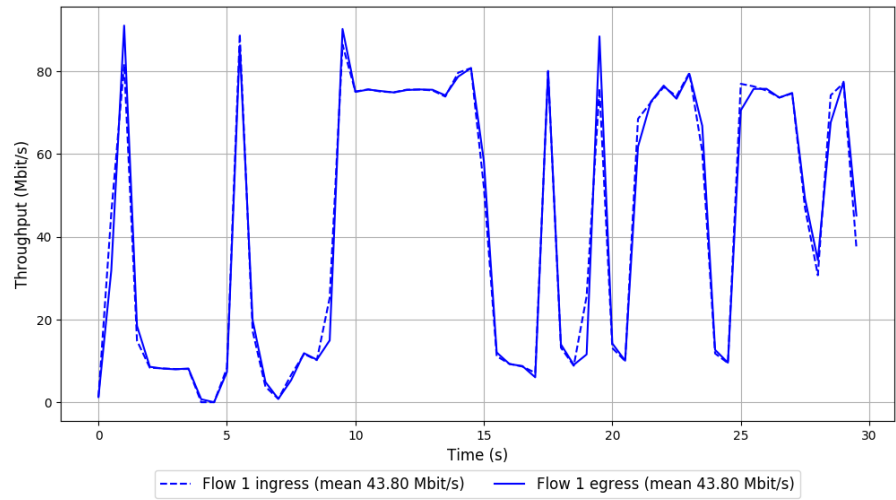


```
Run 1: Statistics of QUIC Cubic

Start at: 2017-12-11 14:02:37
End at: 2017-12-11 14:03:07

# Below is generated by plot.py at 2017-12-11 16:43:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 43.80 Mbit/s
95th percentile per-packet one-way delay: 50.143 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 43.80 Mbit/s
95th percentile per-packet one-way delay: 50.143 ms
Loss rate: 0.00%
```


Run 1: Report of QUIC Cubic — Data Link

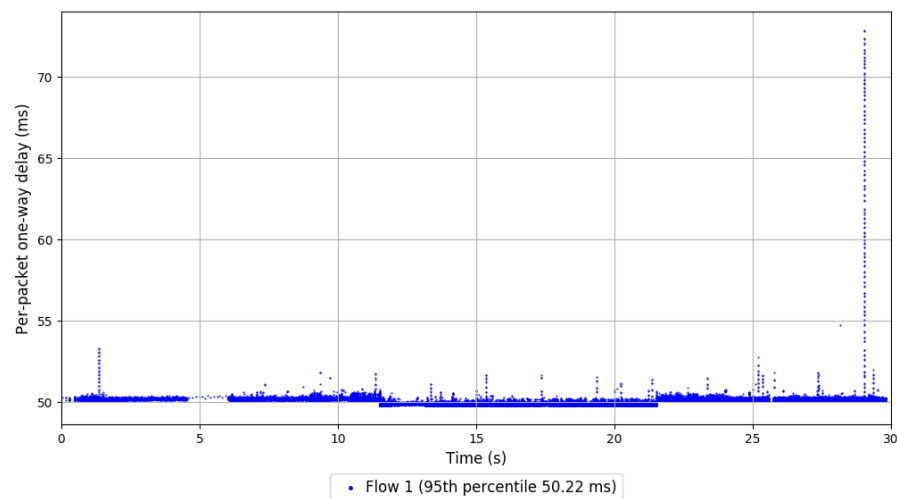
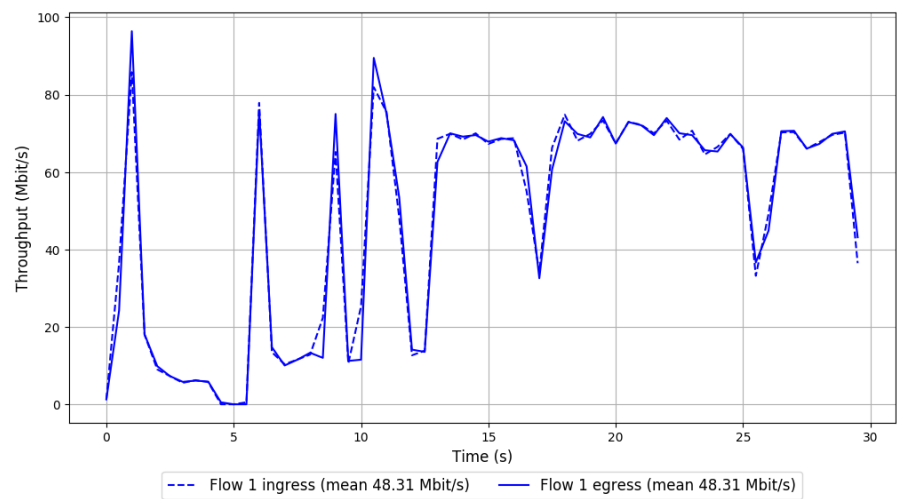


```
Run 2: Statistics of QUIC Cubic

Start at: 2017-12-11 14:12:58
End at: 2017-12-11 14:13:28

# Below is generated by plot.py at 2017-12-11 16:43:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 48.31 Mbit/s
95th percentile per-packet one-way delay: 50.215 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 48.31 Mbit/s
95th percentile per-packet one-way delay: 50.215 ms
Loss rate: 0.00%
```

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2017-12-11 14:23:04

End at: 2017-12-11 14:23:34

Below is generated by plot.py at 2017-12-11 16:43:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 68.19 Mbit/s

95th percentile per-packet one-way delay: 50.194 ms

Loss rate: 0.00%

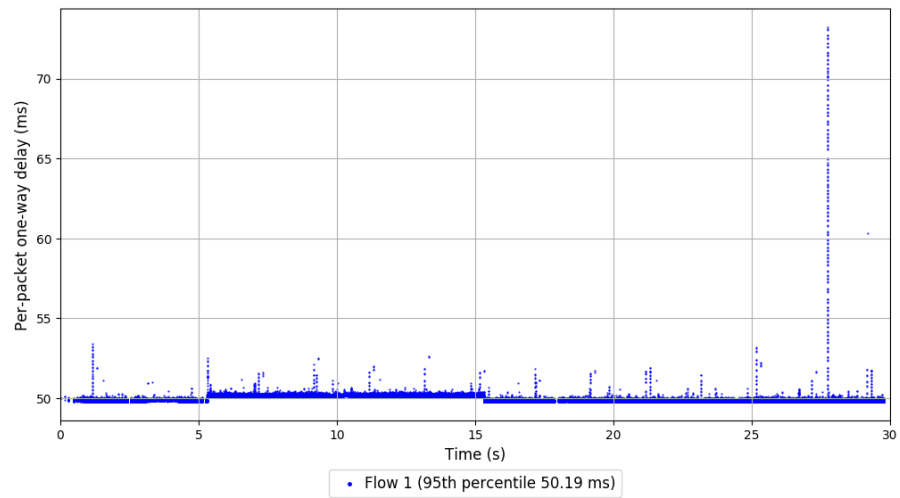
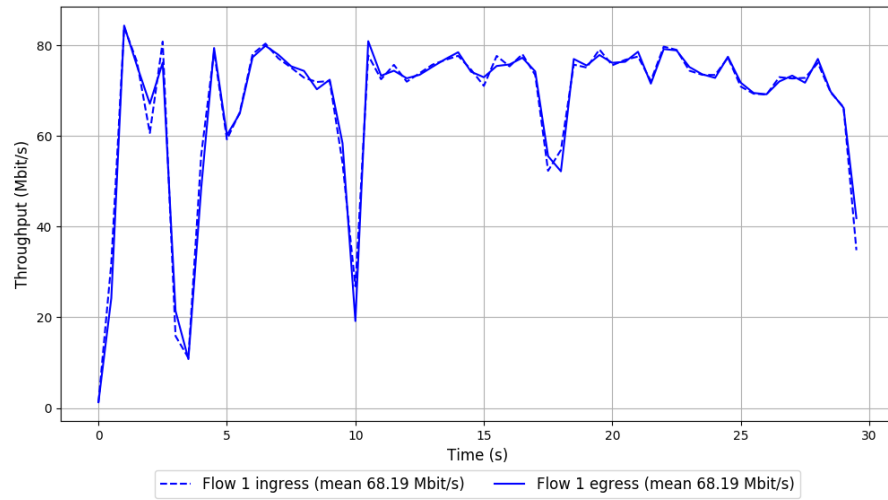
-- Flow 1:

Average throughput: 68.19 Mbit/s

95th percentile per-packet one-way delay: 50.194 ms

Loss rate: 0.00%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2017-12-11 14:33:09

End at: 2017-12-11 14:33:39

Below is generated by plot.py at 2017-12-11 16:43:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 48.61 Mbit/s

95th percentile per-packet one-way delay: 50.445 ms

Loss rate: 0.00%

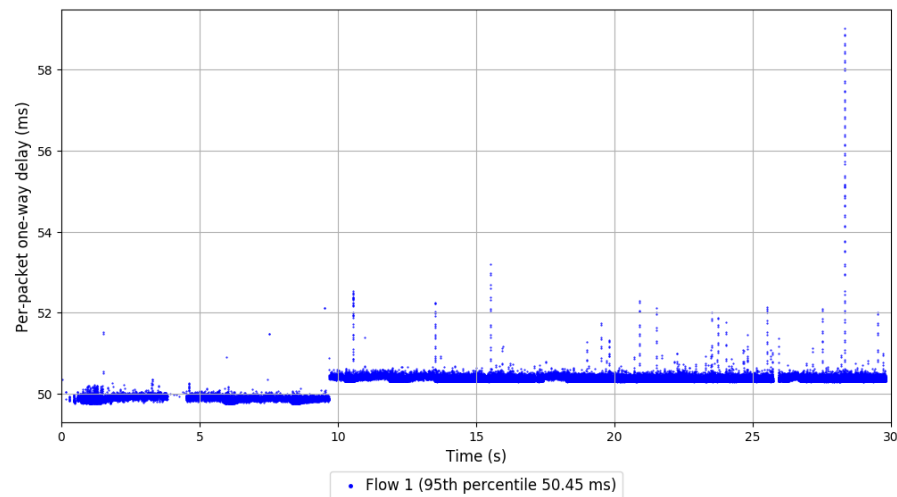
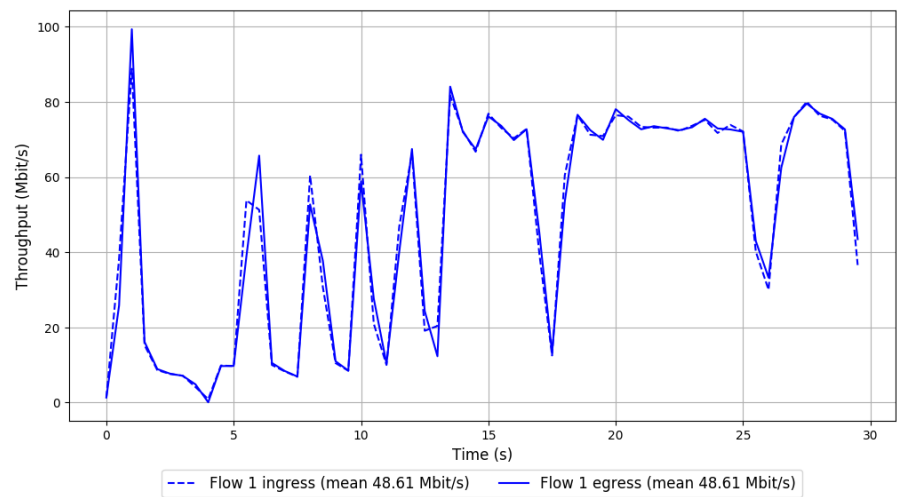
-- Flow 1:

Average throughput: 48.61 Mbit/s

95th percentile per-packet one-way delay: 50.445 ms

Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2017-12-11 14:43:28

End at: 2017-12-11 14:43:58

Below is generated by plot.py at 2017-12-11 16:43:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 39.95 Mbit/s

95th percentile per-packet one-way delay: 53.433 ms

Loss rate: 0.00%

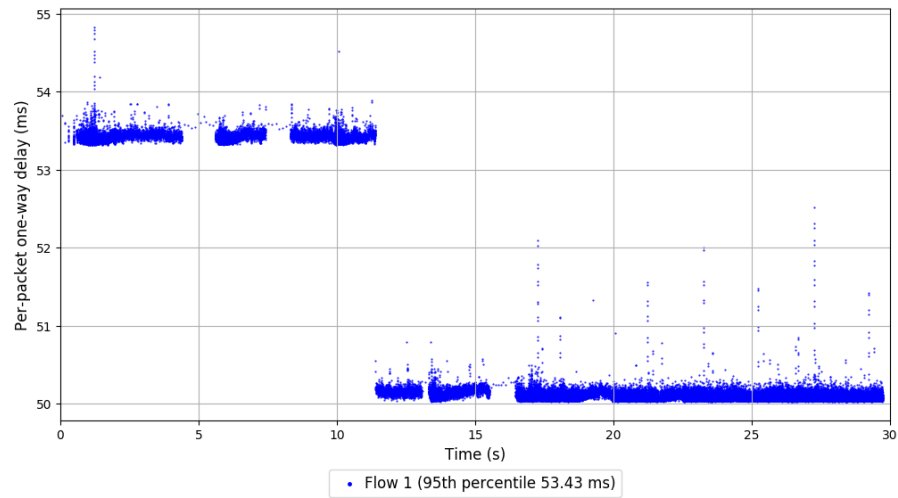
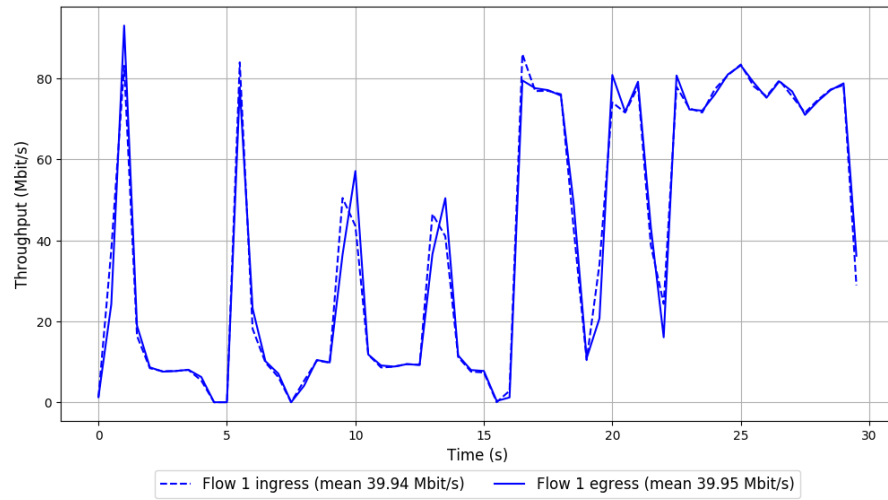
-- Flow 1:

Average throughput: 39.95 Mbit/s

95th percentile per-packet one-way delay: 53.433 ms

Loss rate: 0.00%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2017-12-11 14:53:46

End at: 2017-12-11 14:54:16

Below is generated by plot.py at 2017-12-11 16:43:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 49.80 Mbit/s

95th percentile per-packet one-way delay: 53.260 ms

Loss rate: 0.01%

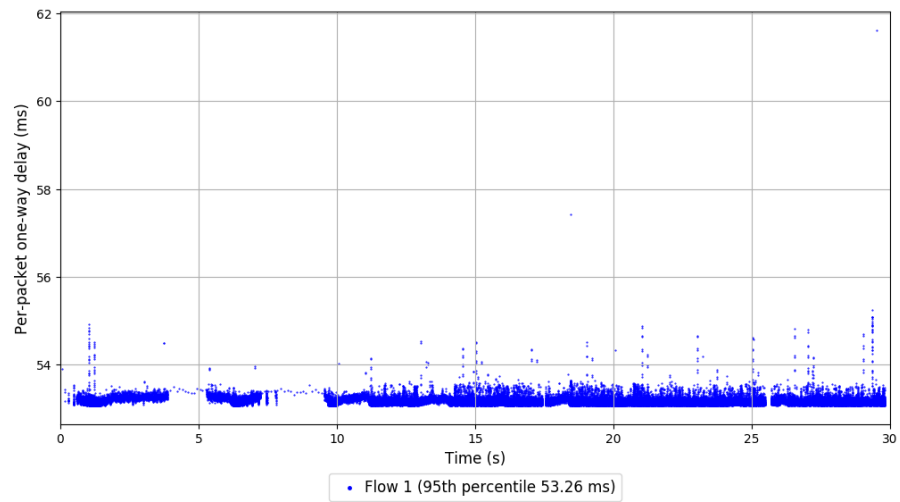
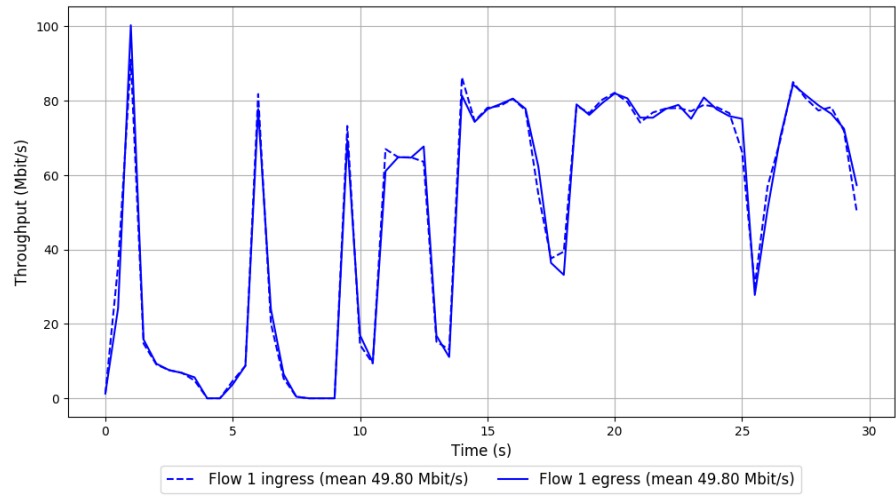
-- Flow 1:

Average throughput: 49.80 Mbit/s

95th percentile per-packet one-way delay: 53.260 ms

Loss rate: 0.01%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2017-12-11 15:03:48

End at: 2017-12-11 15:04:18

Below is generated by plot.py at 2017-12-11 16:43:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 53.19 Mbit/s

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

Loss rate: 0.00%

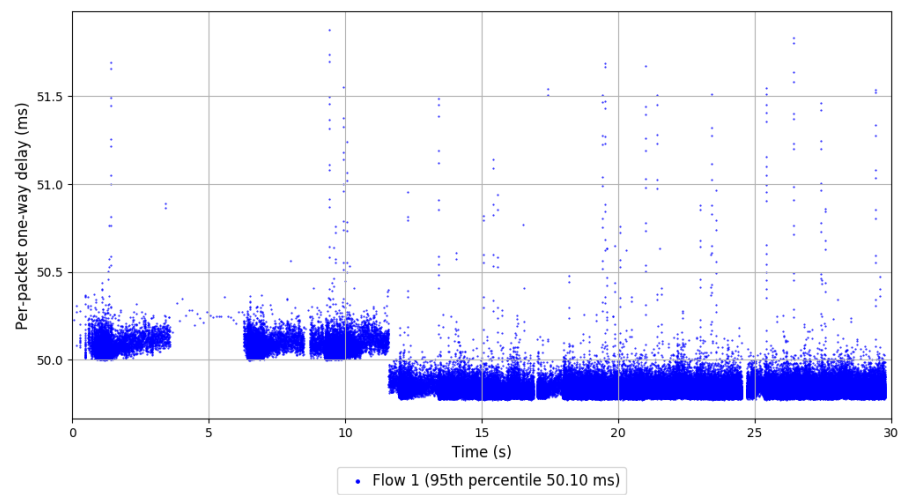
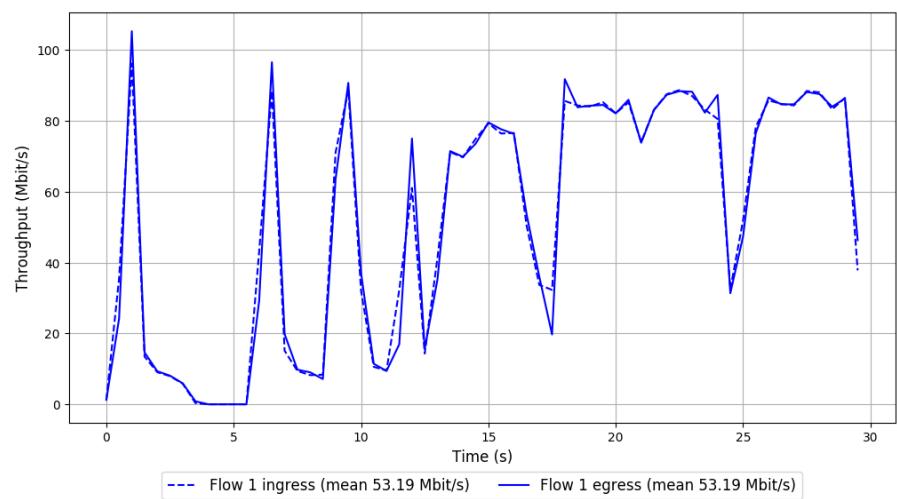
-- Flow 1:

Average throughput: 53.19 Mbit/s

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

Loss rate: 0.00%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2017-12-11 15:14:16

End at: 2017-12-11 15:14:46

Below is generated by plot.py at 2017-12-11 16:43:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 40.65 Mbit/s

95th percentile per-packet one-way delay: 50.241 ms

Loss rate: 0.00%

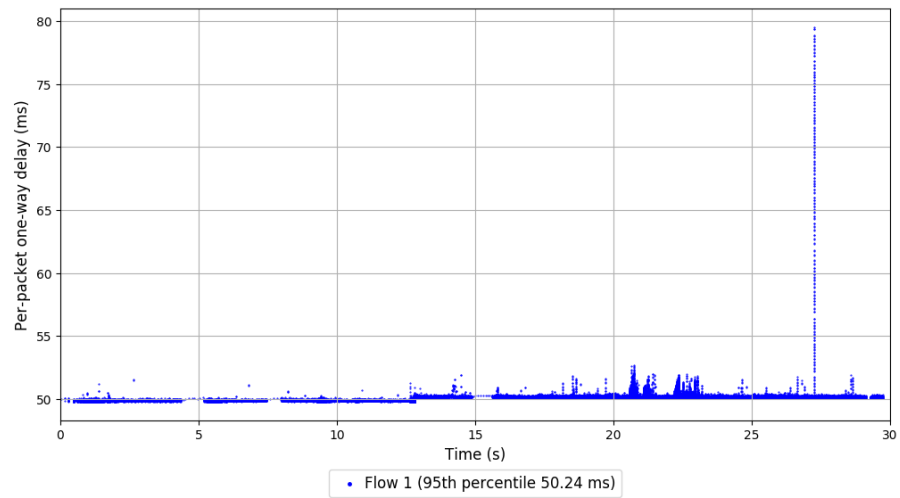
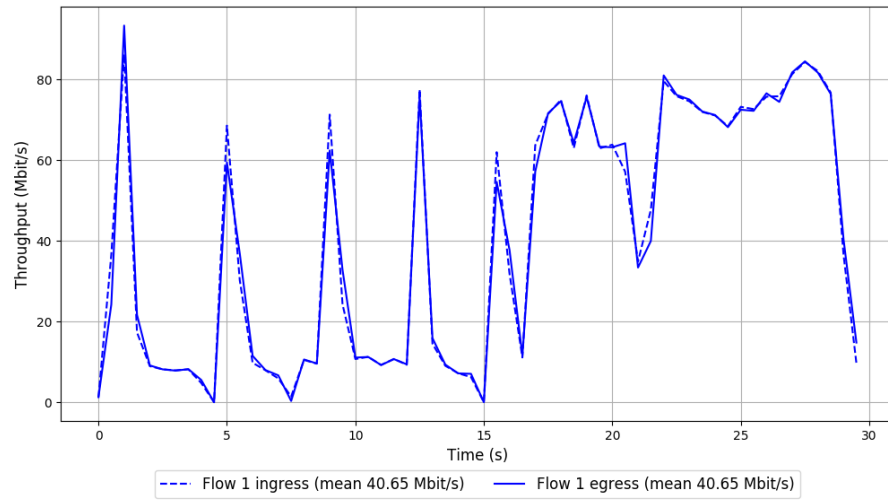
-- Flow 1:

Average throughput: 40.65 Mbit/s

95th percentile per-packet one-way delay: 50.241 ms

Loss rate: 0.00%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2017-12-11 15:24:37

End at: 2017-12-11 15:25:07

Below is generated by plot.py at 2017-12-11 16:43:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 51.57 Mbit/s

95th percentile per-packet one-way delay: 50.512 ms

Loss rate: 0.00%

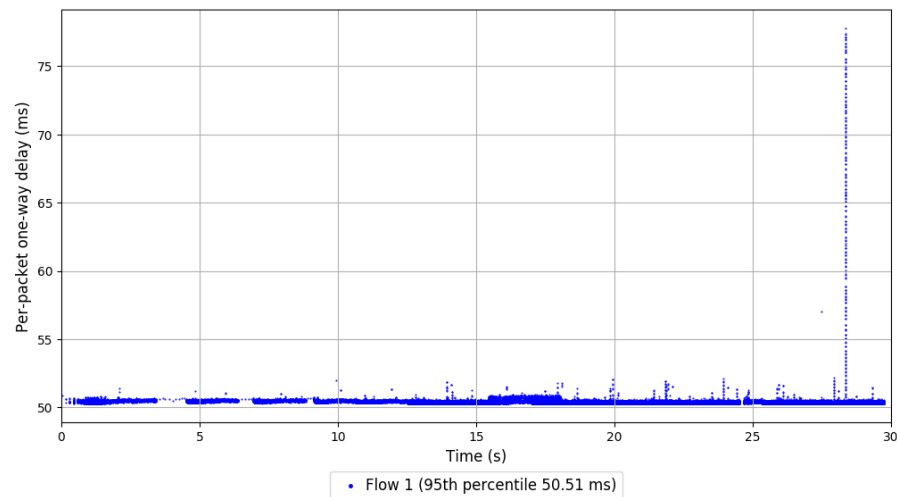
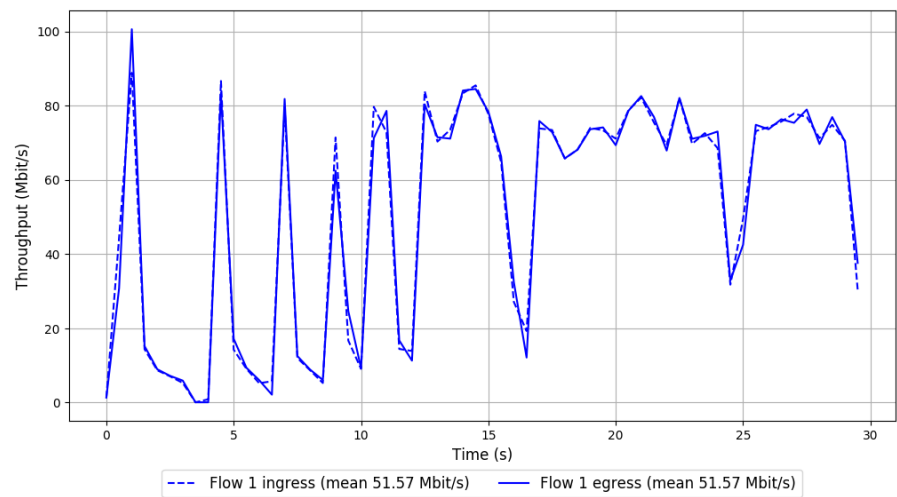
-- Flow 1:

Average throughput: 51.57 Mbit/s

95th percentile per-packet one-way delay: 50.512 ms

Loss rate: 0.00%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2017-12-11 15:35:03

End at: 2017-12-11 15:35:33

Below is generated by plot.py at 2017-12-11 16:43:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 52.83 Mbit/s

95th percentile per-packet one-way delay: 53.487 ms

Loss rate: 0.00%

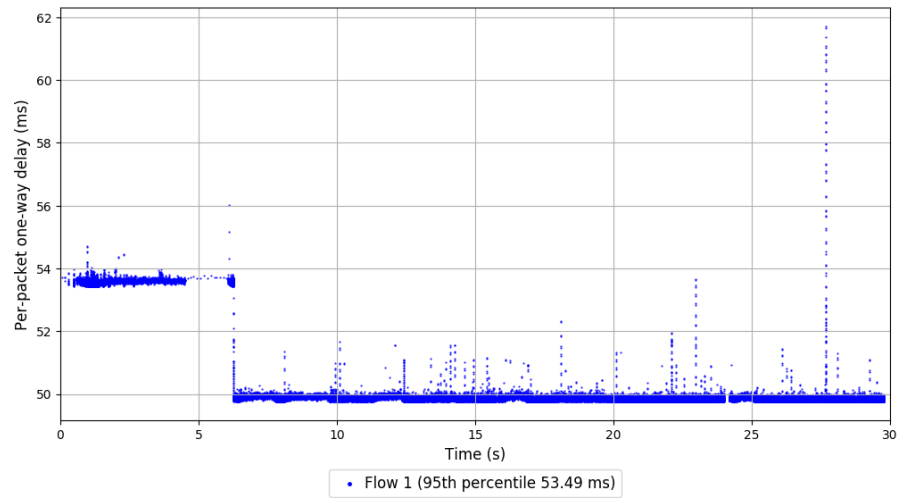
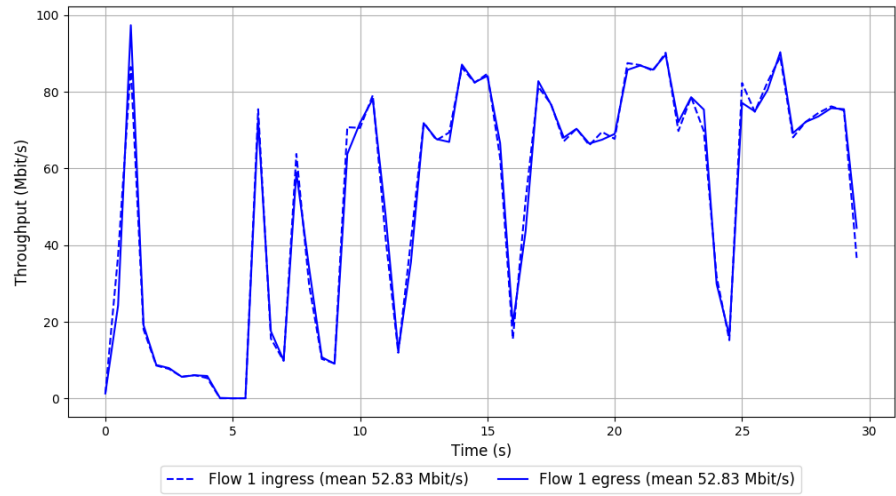
-- Flow 1:

Average throughput: 52.83 Mbit/s

95th percentile per-packet one-way delay: 53.487 ms

Loss rate: 0.00%

Run 10: Report of QUIC Cubic — Data Link

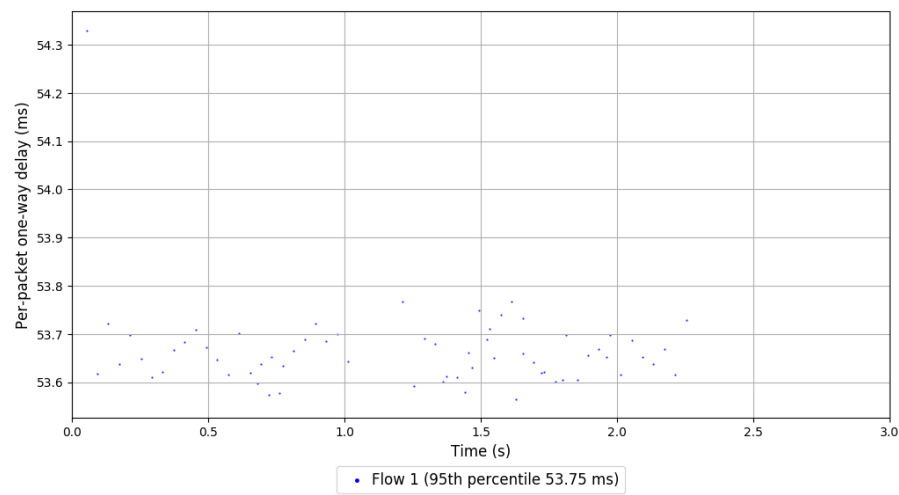
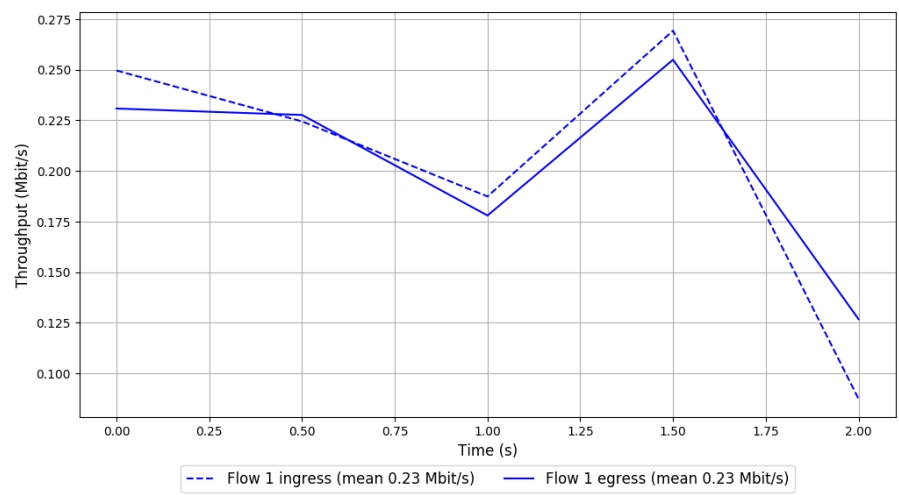


Run 1: Statistics of SReAM

Start at: 2017-12-11 14:00:02

End at: 2017-12-11 14:00:32

Run 1: Report of SReAM — Data Link

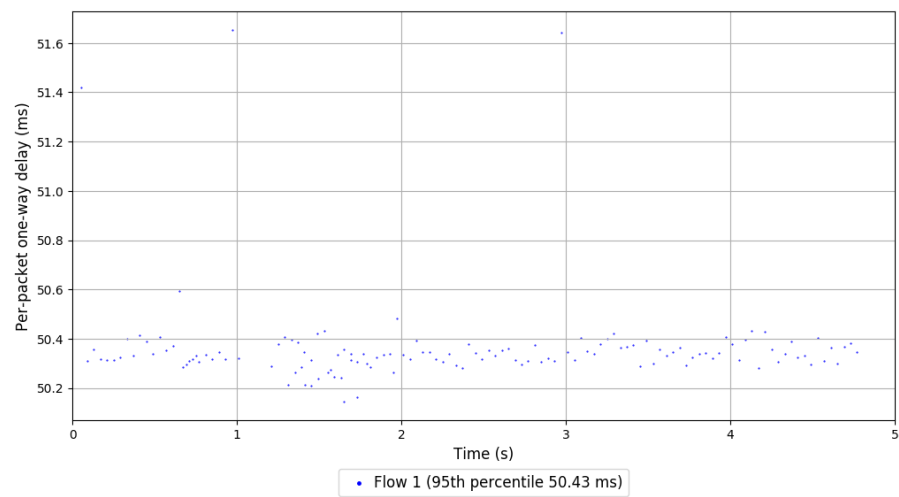
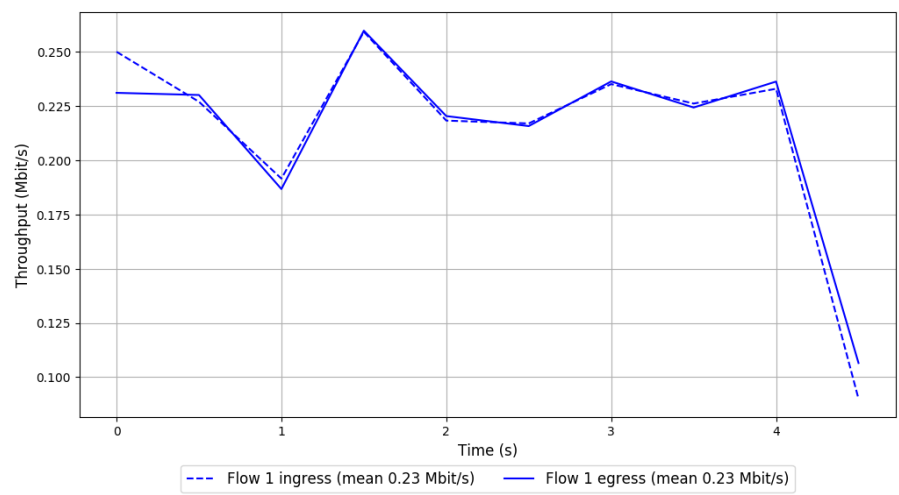


Run 2: Statistics of SReAM

Start at: 2017-12-11 14:10:25

End at: 2017-12-11 14:10:55

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2017-12-11 14:20:30

End at: 2017-12-11 14:21:00

Below is generated by plot.py at 2017-12-11 16:43:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.431 ms

Loss rate: 0.00%

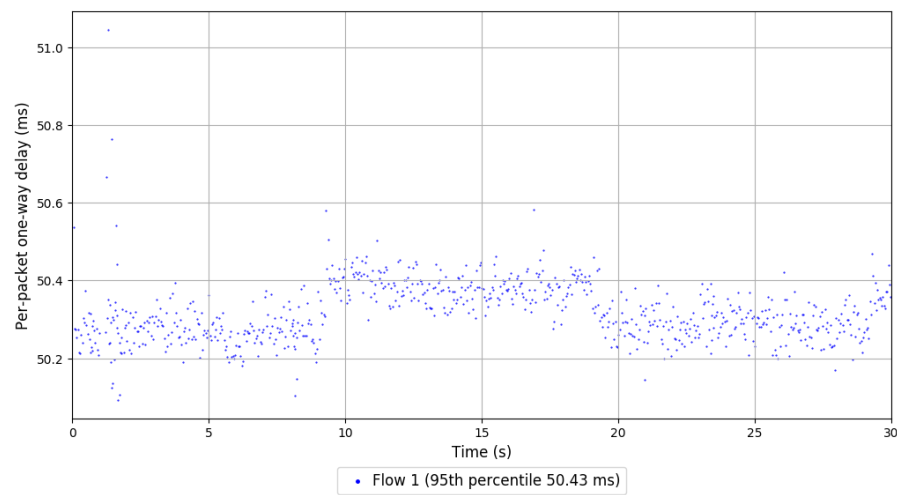
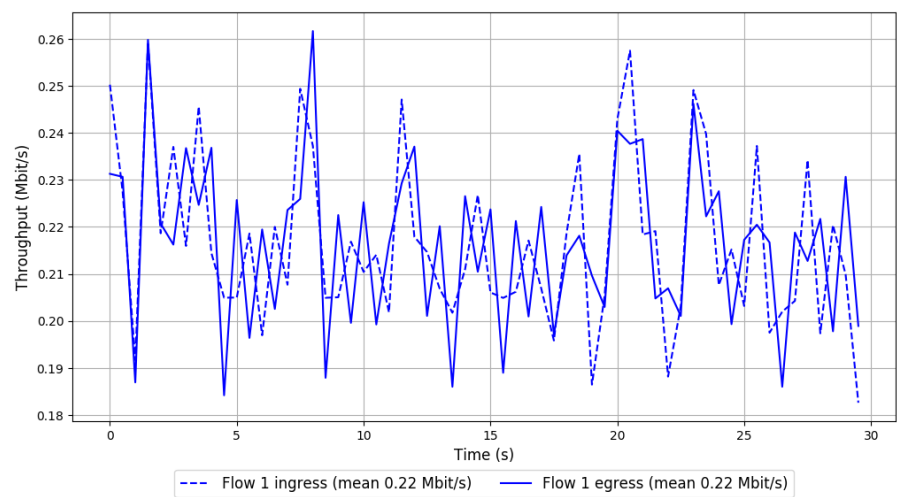
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.431 ms

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2017-12-11 14:30:35

End at: 2017-12-11 14:31:05

Below is generated by plot.py at 2017-12-11 16:43:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.641 ms

Loss rate: 0.00%

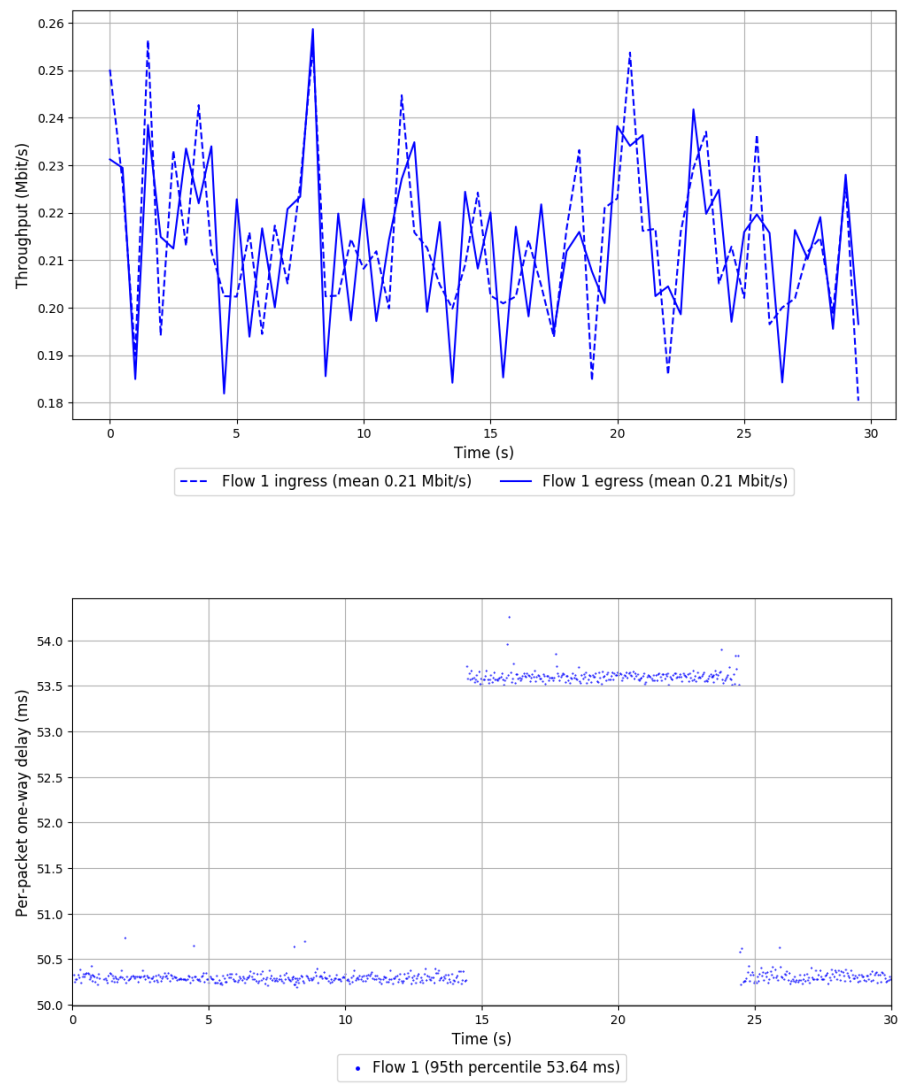
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.641 ms

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2017-12-11 14:40:55

End at: 2017-12-11 14:41:25

Below is generated by plot.py at 2017-12-11 16:43:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.668 ms

Loss rate: 0.12%

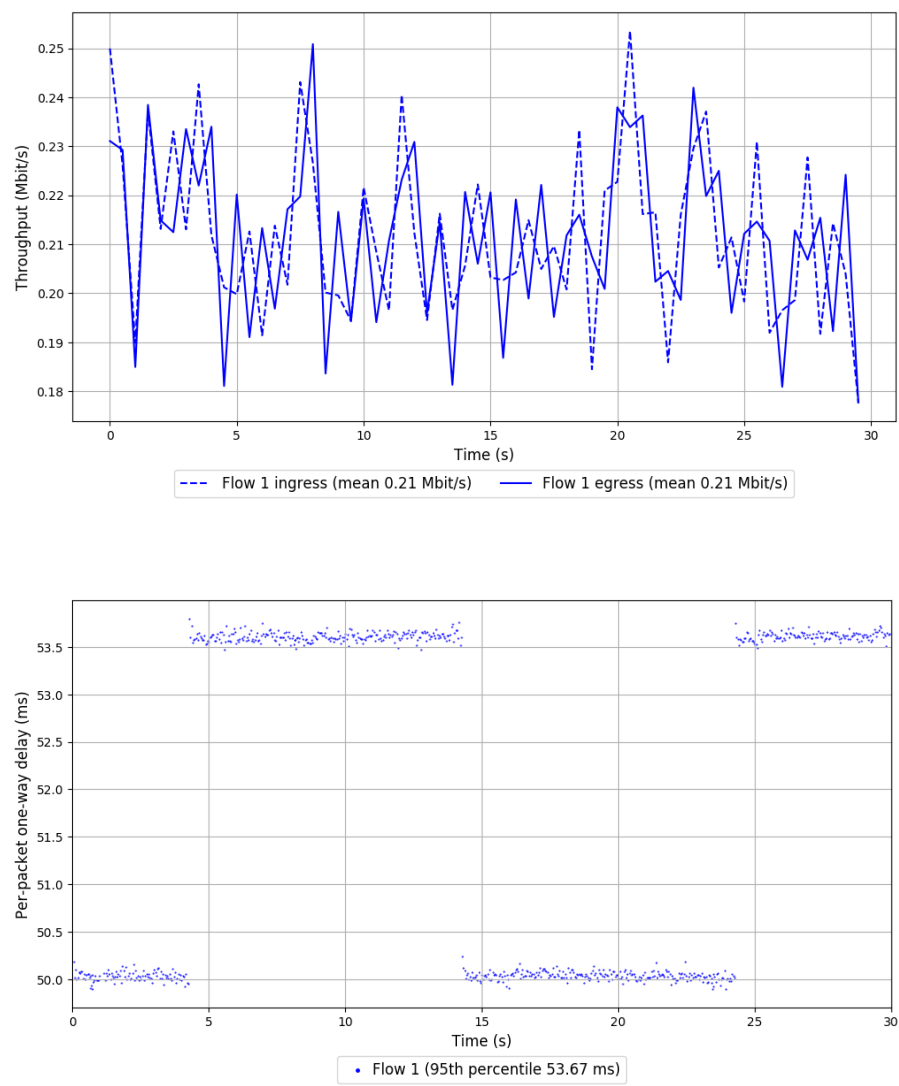
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.668 ms

Loss rate: 0.12%

Run 5: Report of SReAM — Data Link

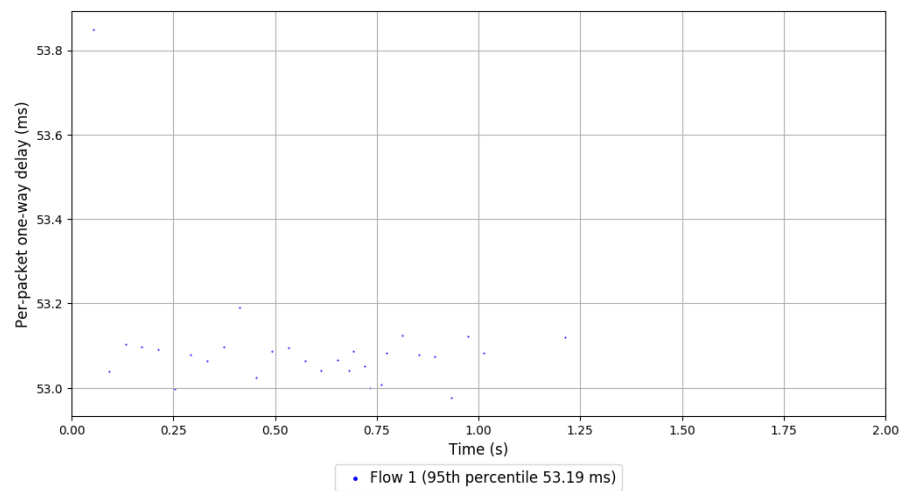
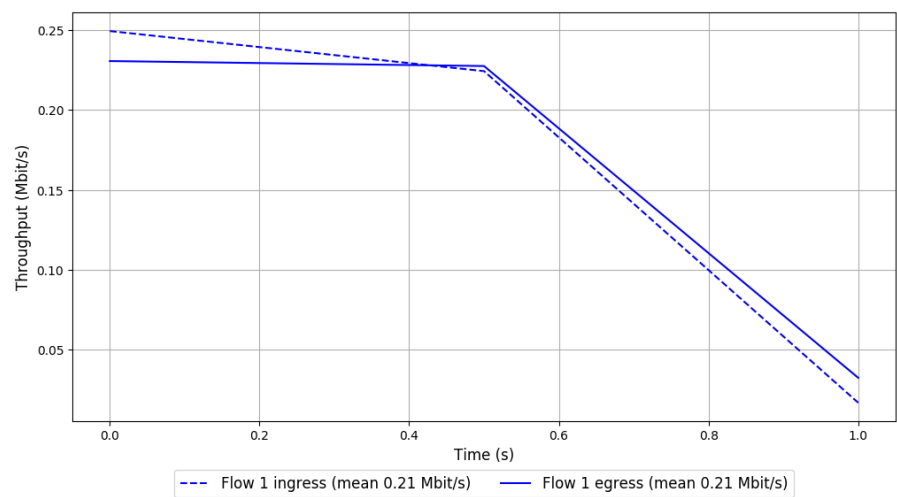


Run 6: Statistics of SReAM

Start at: 2017-12-11 14:51:11

End at: 2017-12-11 14:51:41

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

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

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

Below is generated by plot.py at 2017-12-11 16:43:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.131 ms

Loss rate: 0.00%

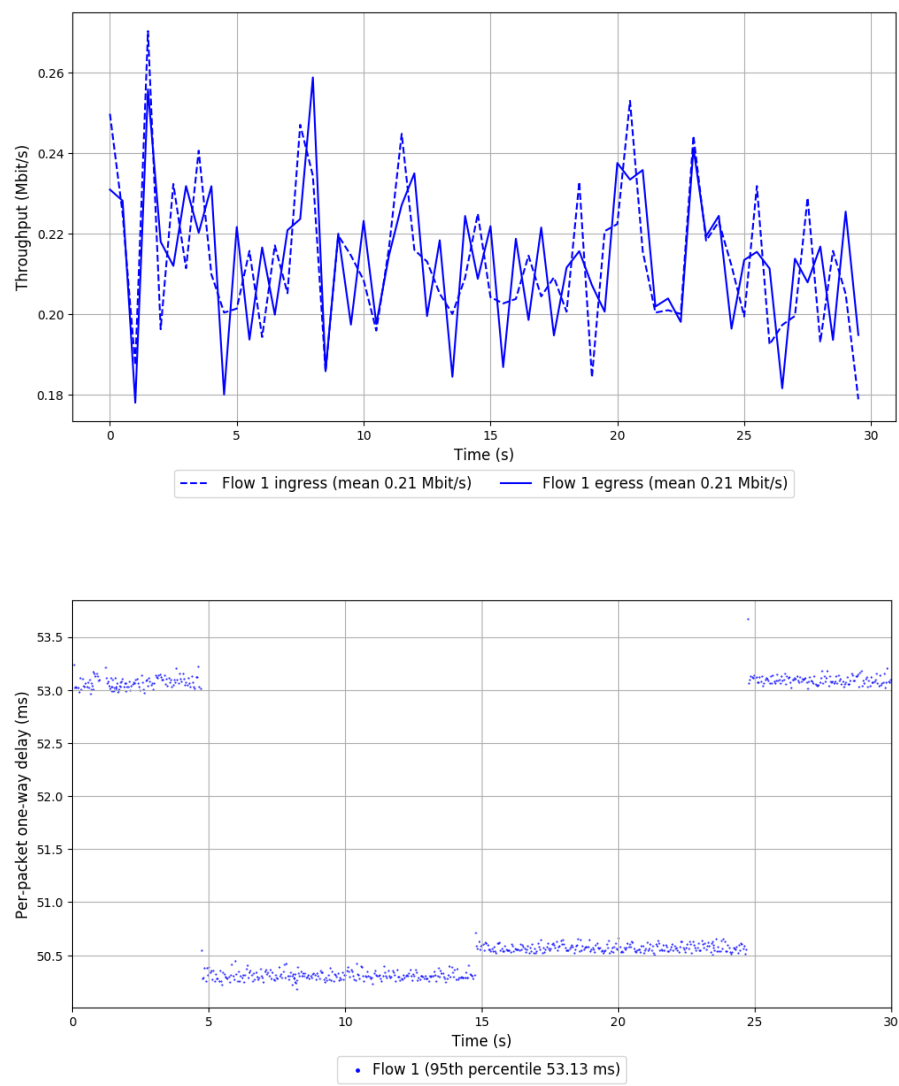
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.131 ms

Loss rate: 0.00%

Run 7: Report of SReAM — Data Link

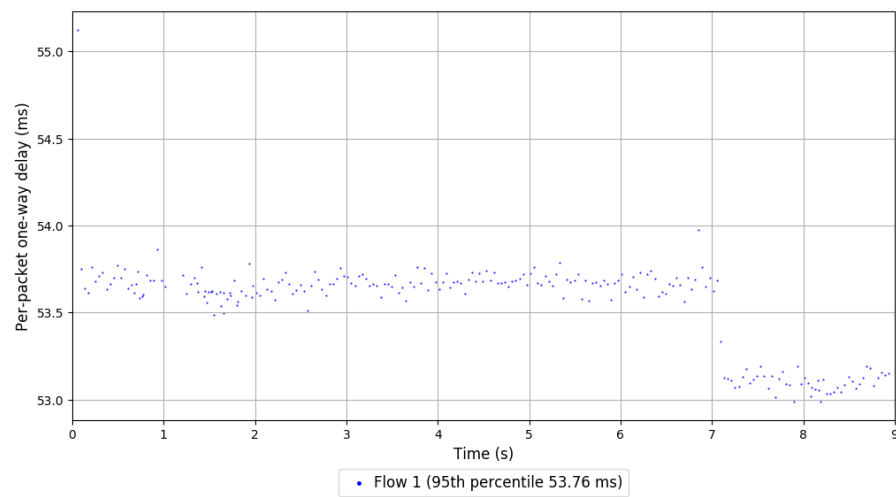
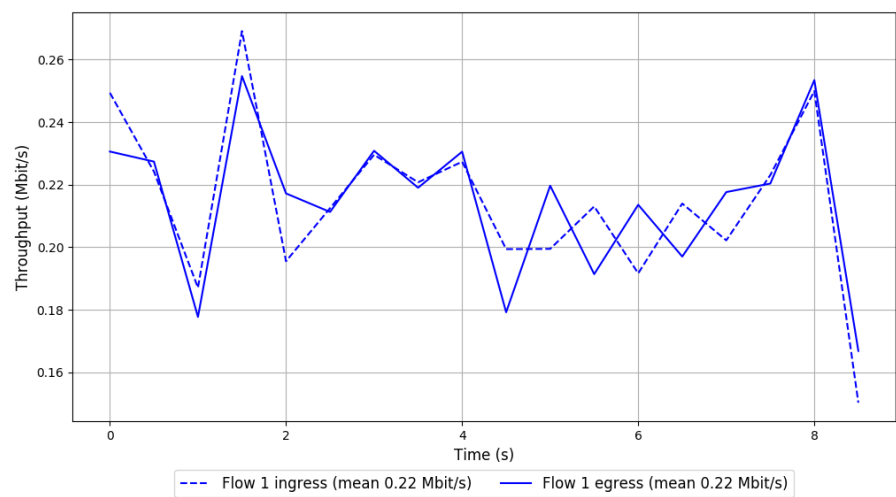


Run 8: Statistics of SReAM

Start at: 2017-12-11 15:11:41

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

Run 8: Report of SReAM — Data Link

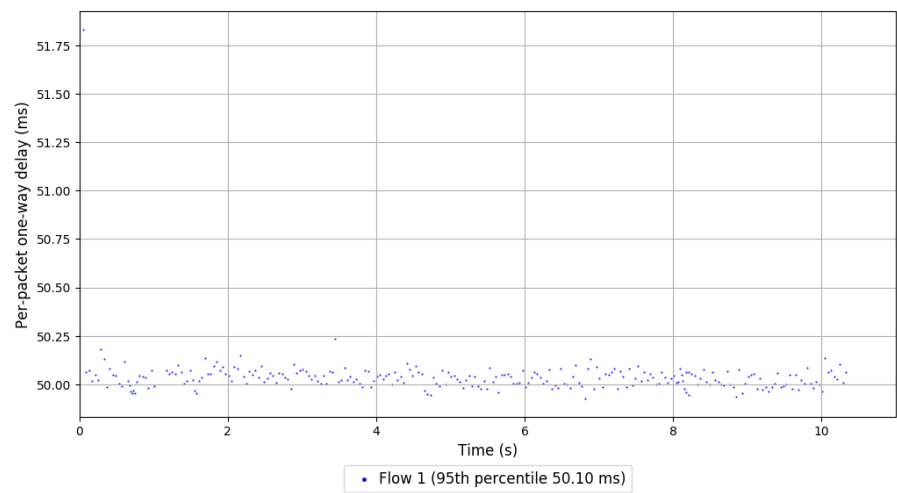
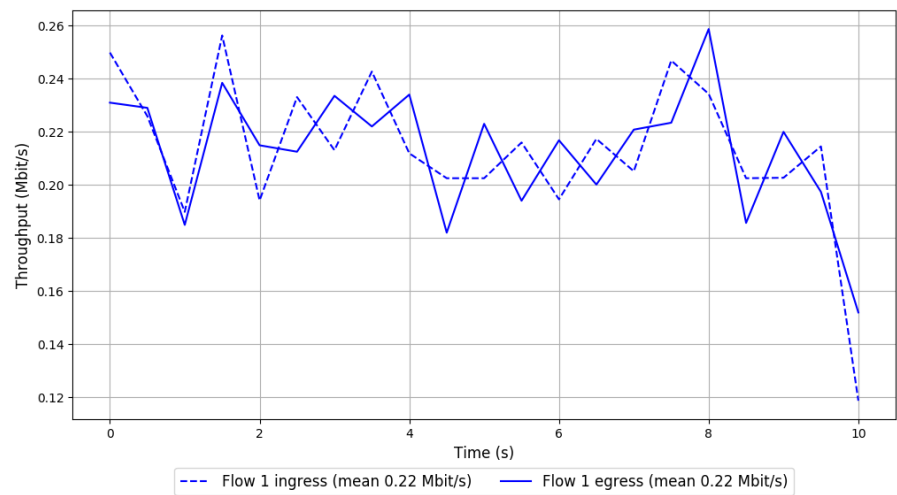


Run 9: Statistics of SReAM

Start at: 2017-12-11 15:22:05

End at: 2017-12-11 15:22:35

Run 9: Report of SReAM — Data Link

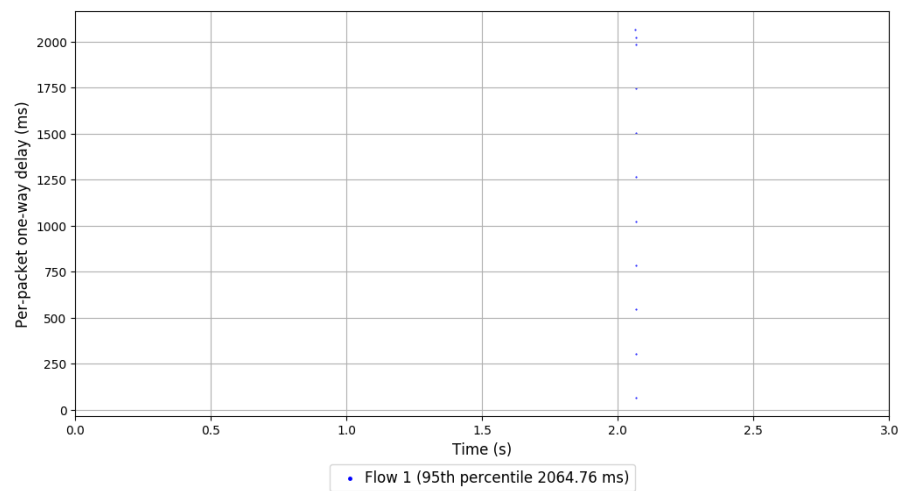
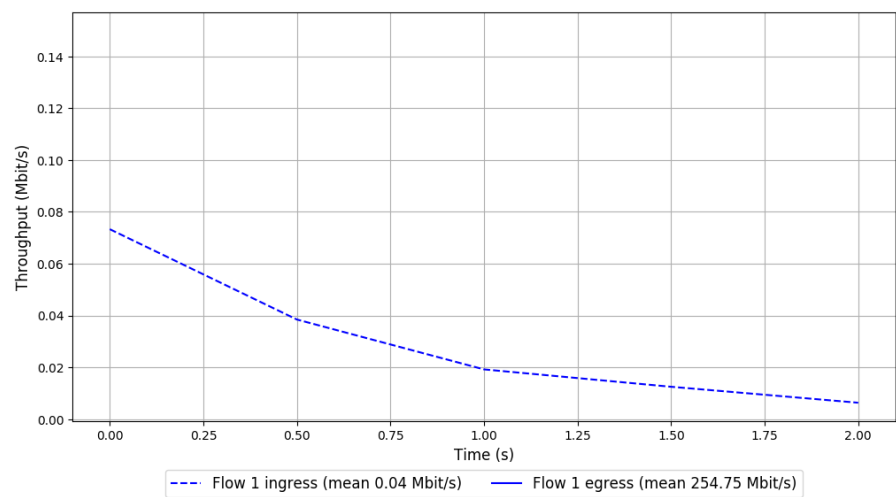


Run 10: Statistics of SCReAM

Start at: 2017-12-11 15:32:30

End at: 2017-12-11 15:33:00

Run 10: Report of SCReAM — Data Link

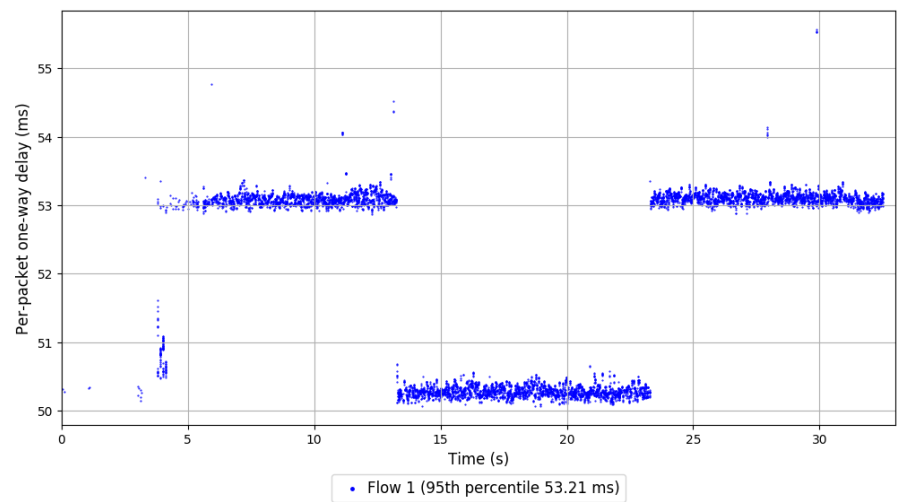
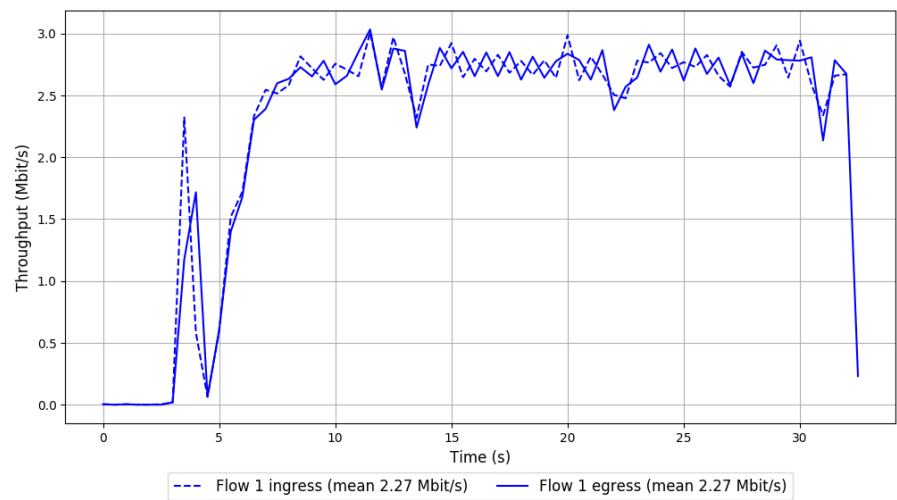


```
Run 1: Statistics of WebRTC media

Start at: 2017-12-11 14:00:39
End at: 2017-12-11 14:01:09

# Below is generated by plot.py at 2017-12-11 16:43:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.27 Mbit/s
95th percentile per-packet one-way delay: 53.208 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.27 Mbit/s
95th percentile per-packet one-way delay: 53.208 ms
Loss rate: 0.00%
```


Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2017-12-11 14:11:02

End at: 2017-12-11 14:11:32

Below is generated by plot.py at 2017-12-11 16:43:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 50.796 ms

Loss rate: 0.00%

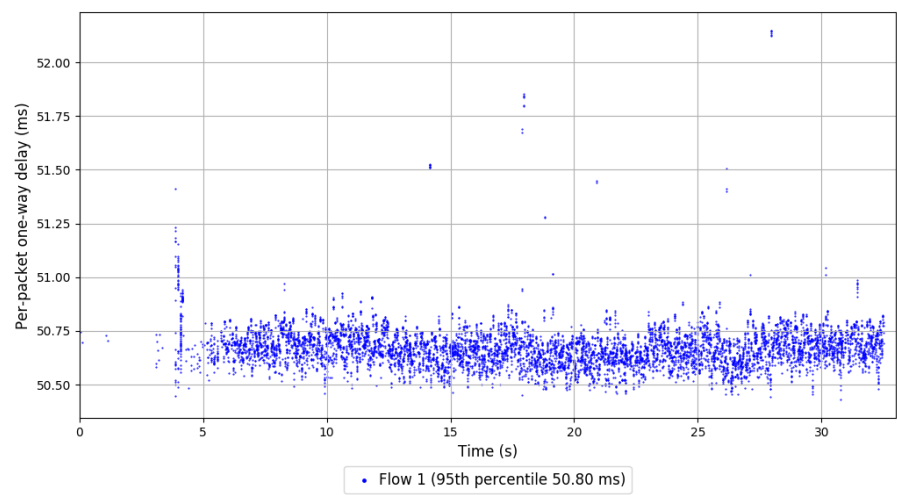
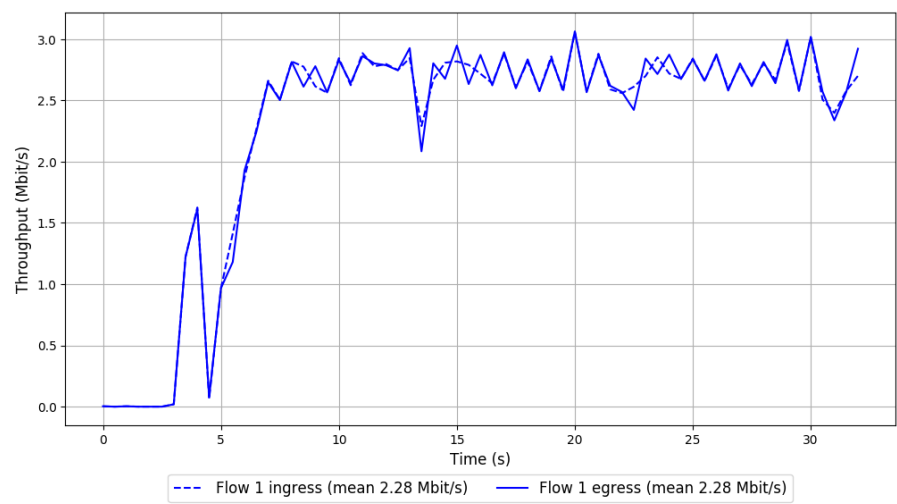
-- Flow 1:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 50.796 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2017-12-11 14:21:07

End at: 2017-12-11 14:21:37

Below is generated by plot.py at 2017-12-11 16:43:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 50.713 ms

Loss rate: 0.00%

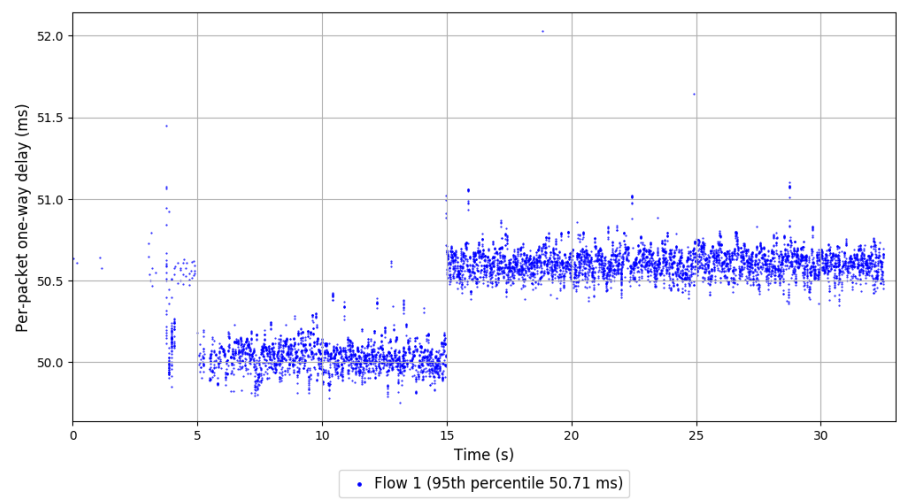
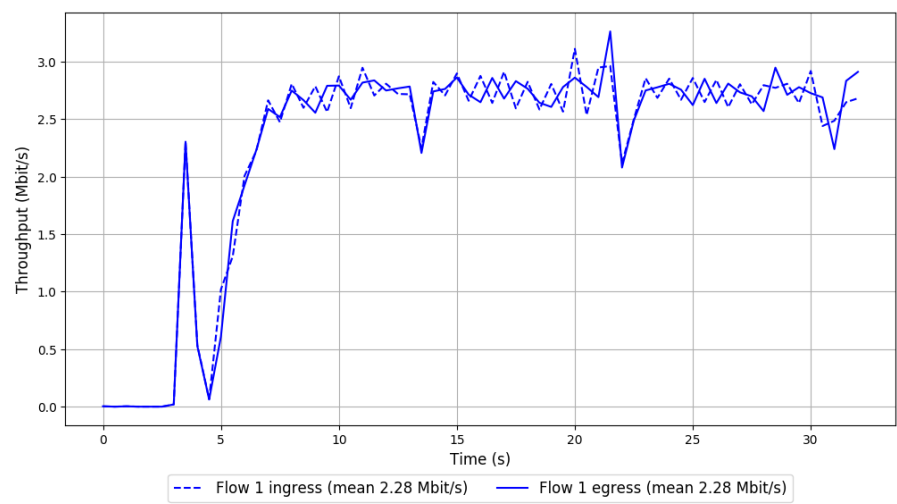
-- Flow 1:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 50.713 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2017-12-11 14:31:12

End at: 2017-12-11 14:31:42

Below is generated by plot.py at 2017-12-11 16:43:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.27 Mbit/s

95th percentile per-packet one-way delay: 53.747 ms

Loss rate: 0.00%

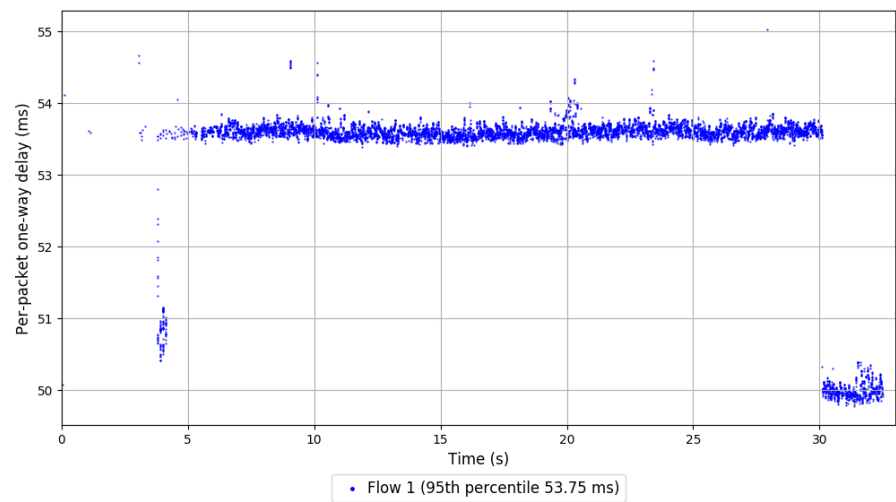
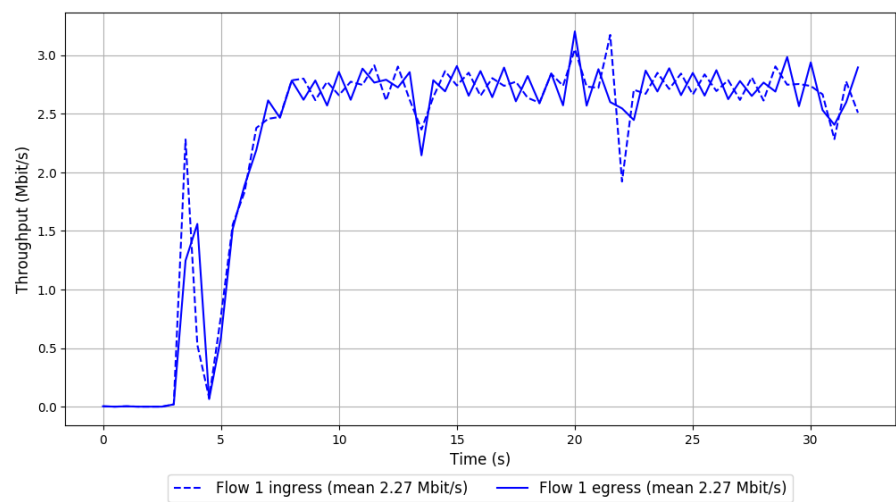
-- Flow 1:

Average throughput: 2.27 Mbit/s

95th percentile per-packet one-way delay: 53.747 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2017-12-11 14:41:32

End at: 2017-12-11 14:42:02

Below is generated by plot.py at 2017-12-11 16:43:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.27 Mbit/s

95th percentile per-packet one-way delay: 53.672 ms

Loss rate: 0.00%

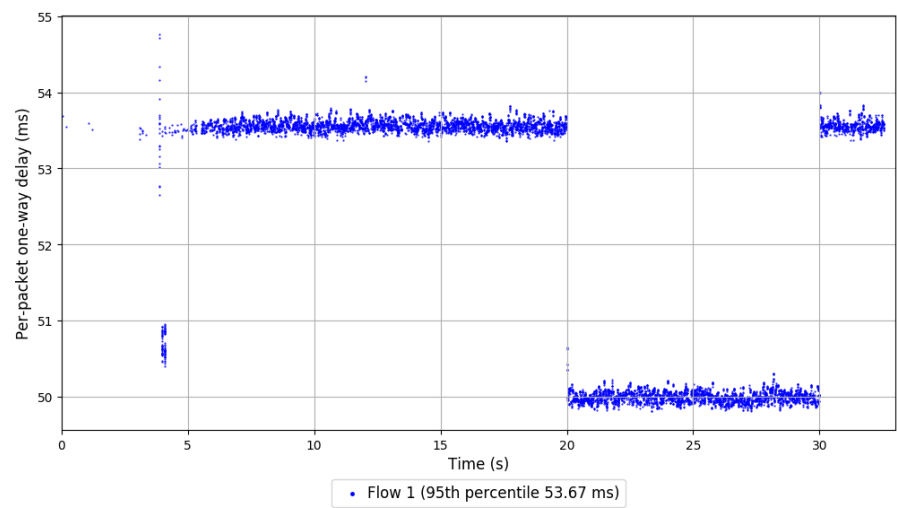
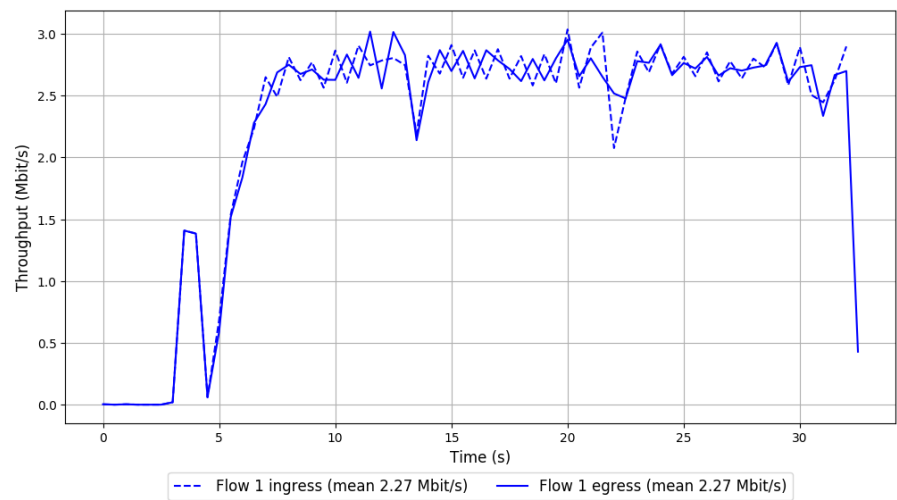
-- Flow 1:

Average throughput: 2.27 Mbit/s

95th percentile per-packet one-way delay: 53.672 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2017-12-11 14:51:48

End at: 2017-12-11 14:52:18

Below is generated by plot.py at 2017-12-11 16:43:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 53.280 ms

Loss rate: 0.00%

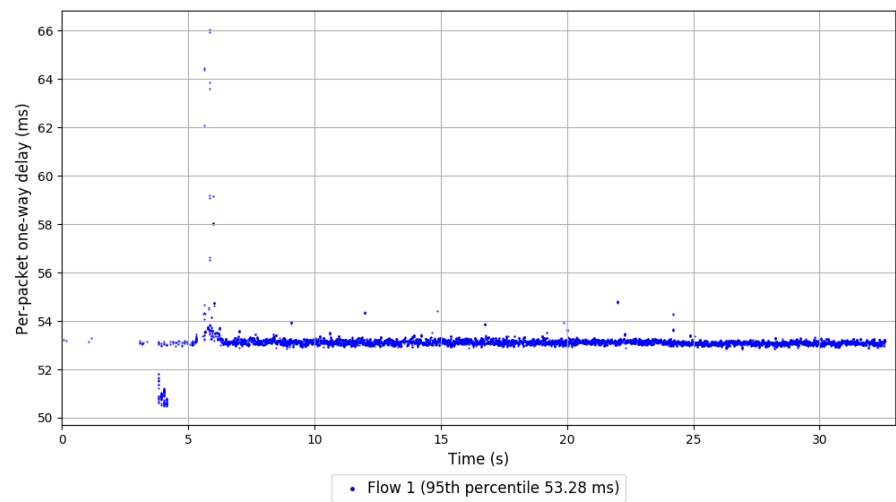
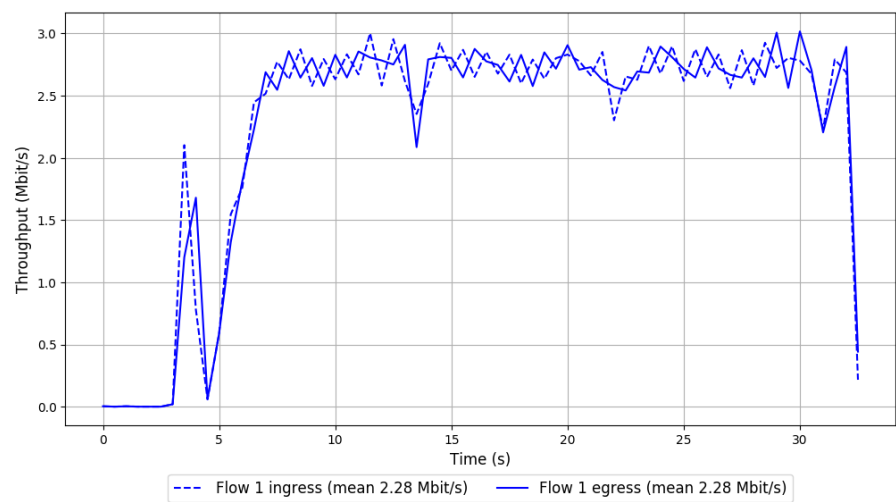
-- Flow 1:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 53.280 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

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

End at: 2017-12-11 15:02:22

Below is generated by plot.py at 2017-12-11 16:43:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.26 Mbit/s

95th percentile per-packet one-way delay: 53.744 ms

Loss rate: 0.00%

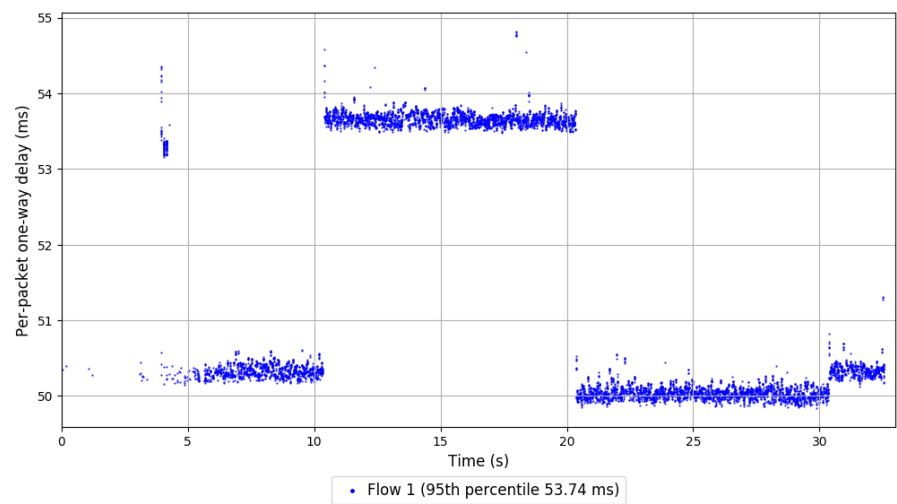
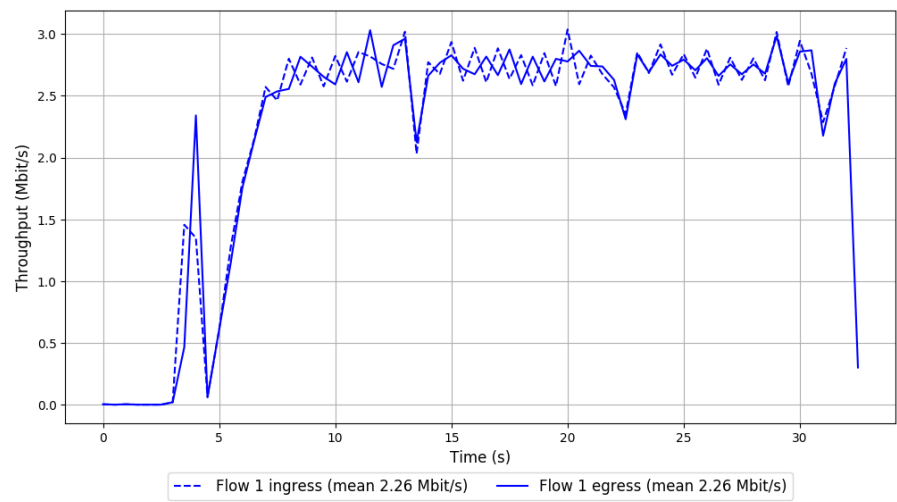
-- Flow 1:

Average throughput: 2.26 Mbit/s

95th percentile per-packet one-way delay: 53.744 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

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

End at: 2017-12-11 15:12:48

Below is generated by plot.py at 2017-12-11 16:43:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.27 Mbit/s

95th percentile per-packet one-way delay: 50.674 ms

Loss rate: 0.00%

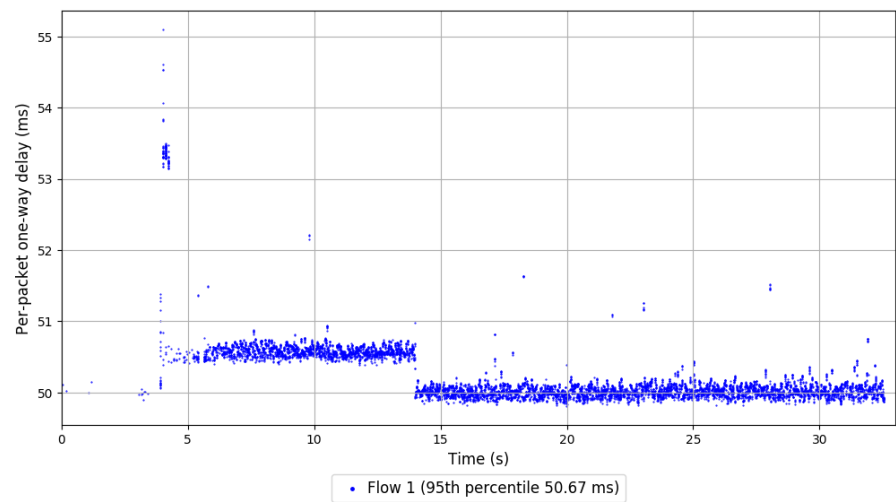
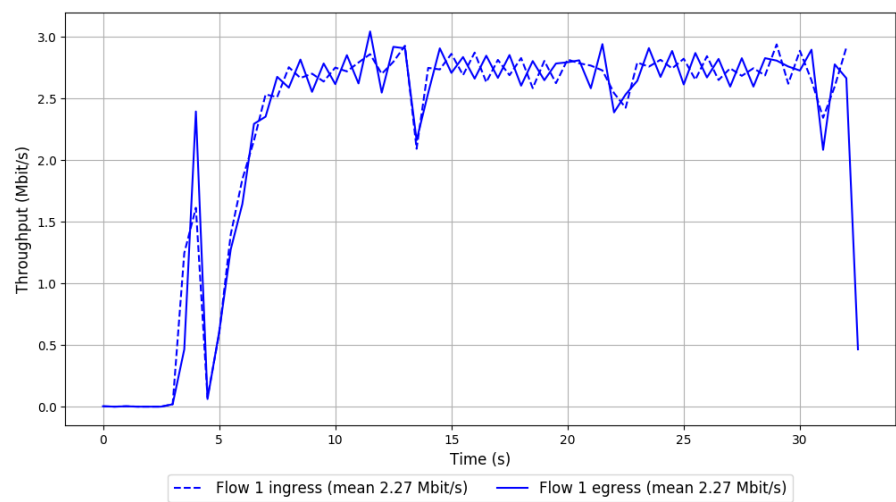
-- Flow 1:

Average throughput: 2.27 Mbit/s

95th percentile per-packet one-way delay: 50.674 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2017-12-11 15:22:42

End at: 2017-12-11 15:23:12

Below is generated by plot.py at 2017-12-11 16:43:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.26 Mbit/s

95th percentile per-packet one-way delay: 53.745 ms

Loss rate: 0.00%

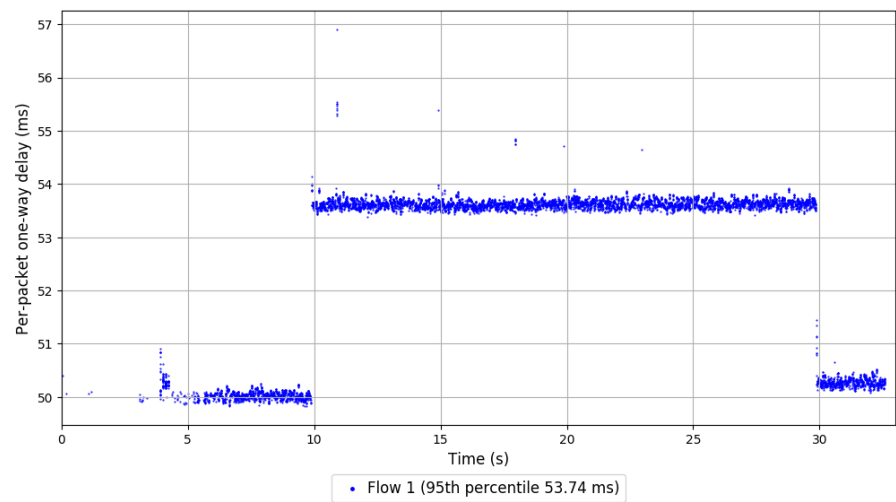
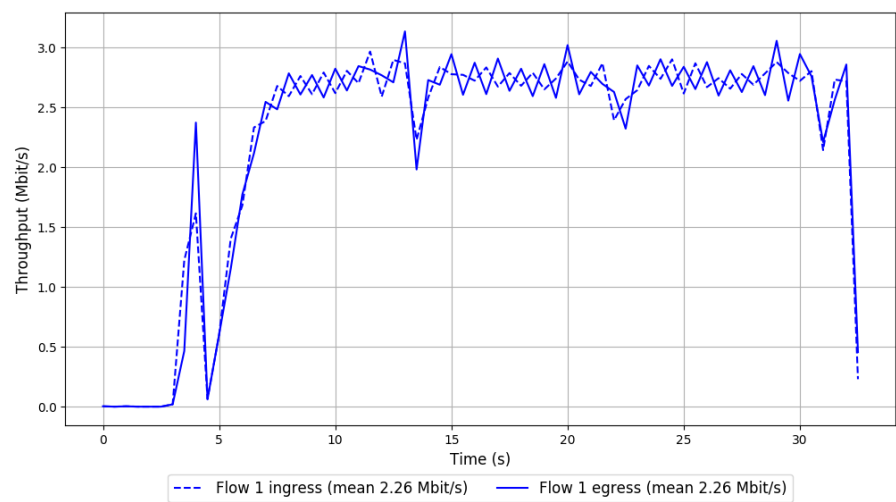
-- Flow 1:

Average throughput: 2.26 Mbit/s

95th percentile per-packet one-way delay: 53.745 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2017-12-11 15:33:07

End at: 2017-12-11 15:33:37

Below is generated by plot.py at 2017-12-11 16:43:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.26 Mbit/s

95th percentile per-packet one-way delay: 53.618 ms

Loss rate: 0.00%

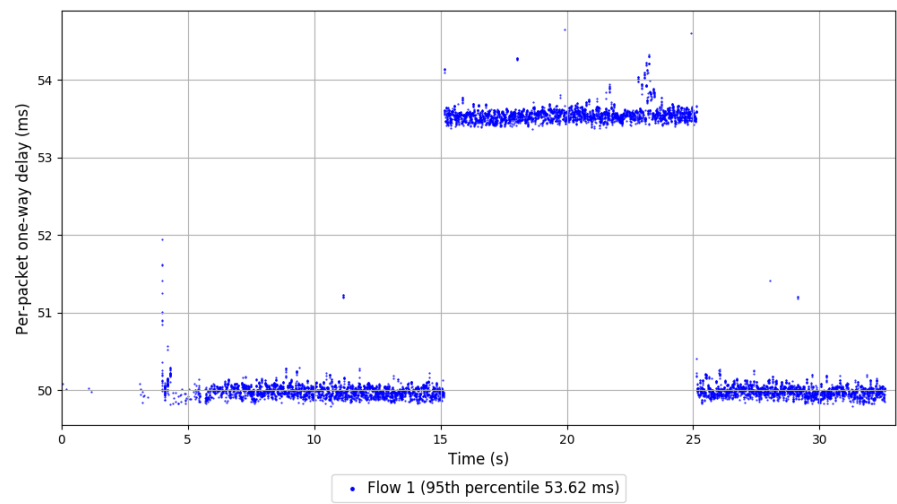
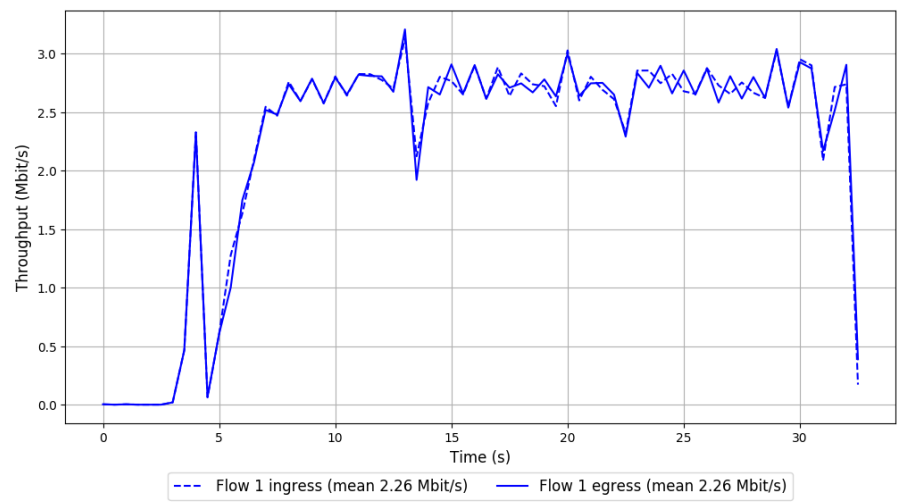
-- Flow 1:

Average throughput: 2.26 Mbit/s

95th percentile per-packet one-way delay: 53.618 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2017-12-11 13:55:26

End at: 2017-12-11 13:55:57

Below is generated by plot.py at 2017-12-11 16:43:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.81 Mbit/s

95th percentile per-packet one-way delay: 54.192 ms

Loss rate: 0.15%

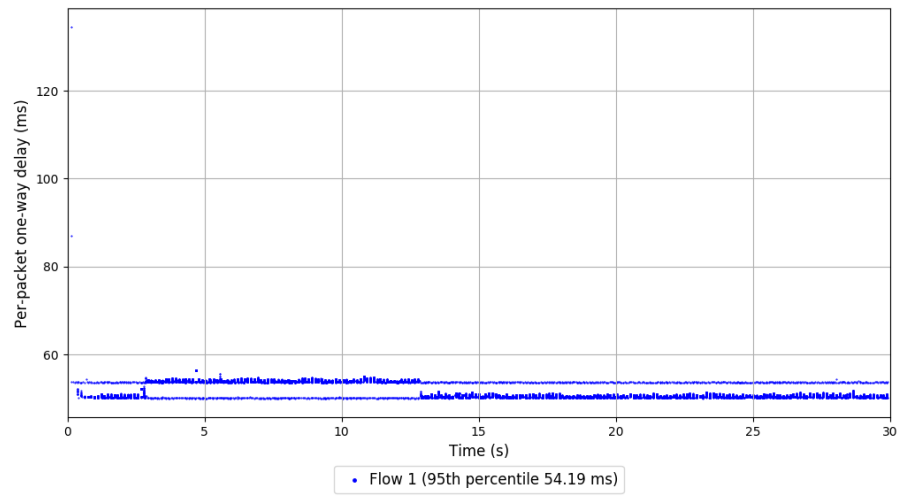
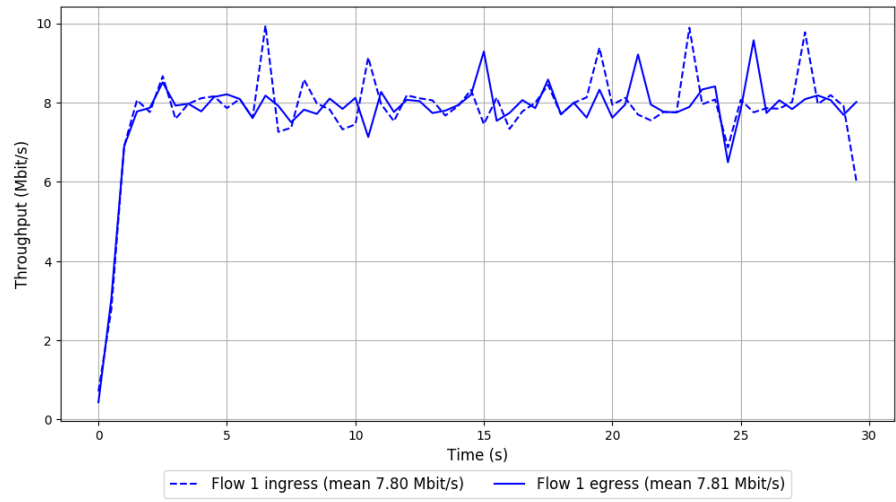
-- Flow 1:

Average throughput: 7.81 Mbit/s

95th percentile per-packet one-way delay: 54.192 ms

Loss rate: 0.15%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2017-12-11 14:05:51

End at: 2017-12-11 14:06:21

Below is generated by plot.py at 2017-12-11 16:43:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.66 Mbit/s

95th percentile per-packet one-way delay: 54.253 ms

Loss rate: 0.24%

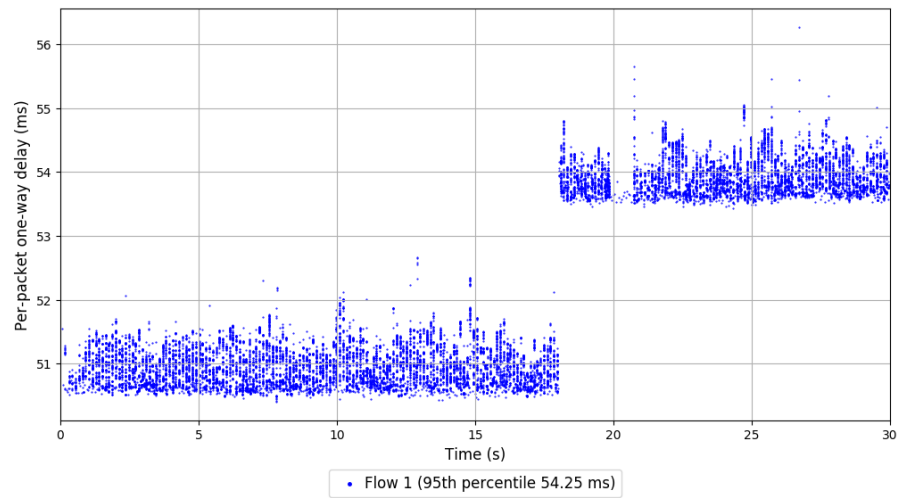
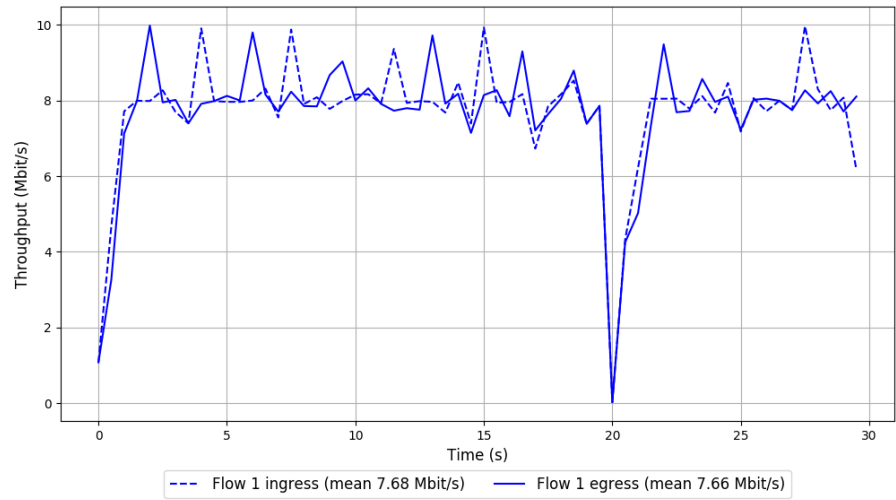
-- Flow 1:

Average throughput: 7.66 Mbit/s

95th percentile per-packet one-way delay: 54.253 ms

Loss rate: 0.24%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2017-12-11 14:16:11

End at: 2017-12-11 14:16:41

Below is generated by plot.py at 2017-12-11 16:43:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.63 Mbit/s

95th percentile per-packet one-way delay: 54.115 ms

Loss rate: 0.04%

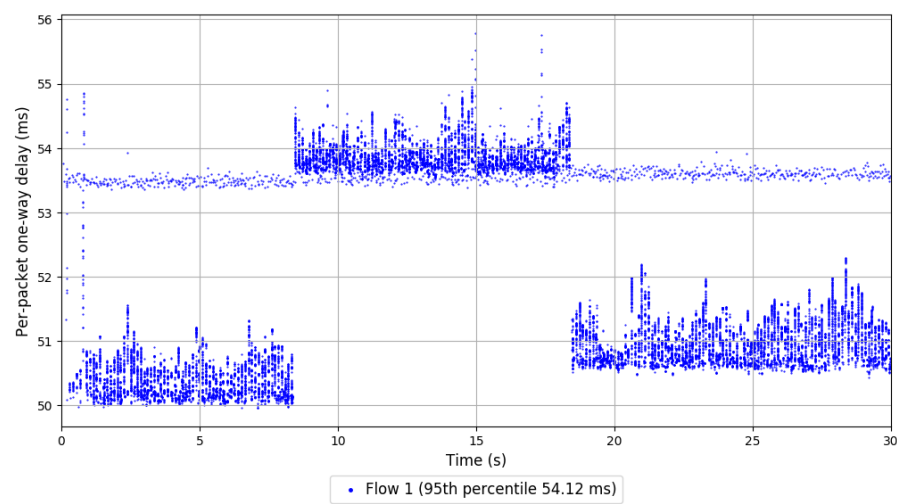
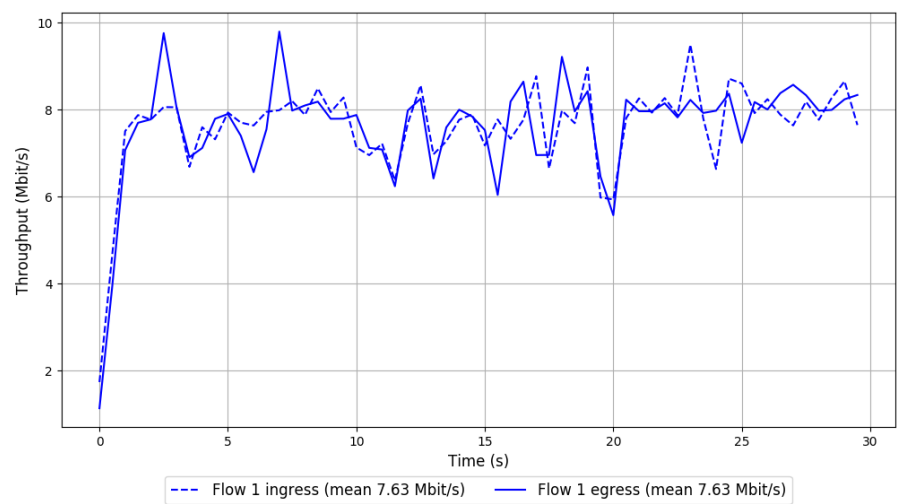
-- Flow 1:

Average throughput: 7.63 Mbit/s

95th percentile per-packet one-way delay: 54.115 ms

Loss rate: 0.04%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2017-12-11 14:26:19

End at: 2017-12-11 14:26:49

Below is generated by plot.py at 2017-12-11 16:43:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.94 Mbit/s

95th percentile per-packet one-way delay: 51.445 ms

Loss rate: 0.00%

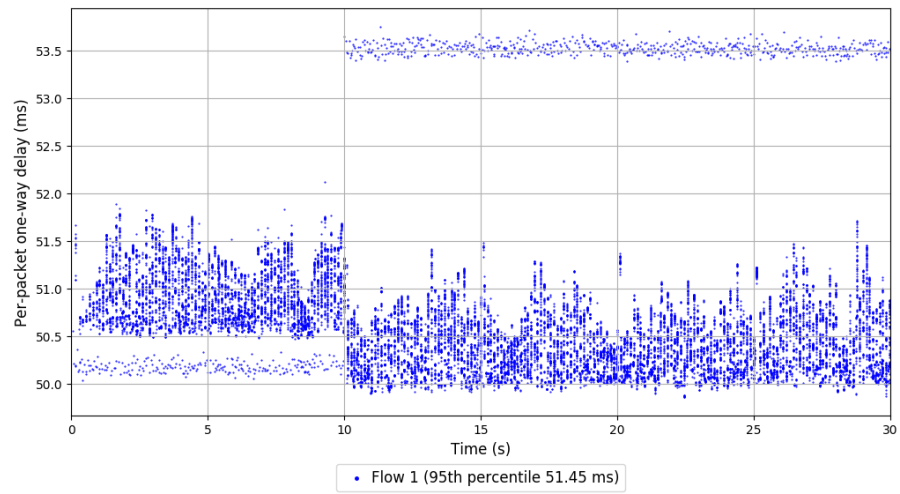
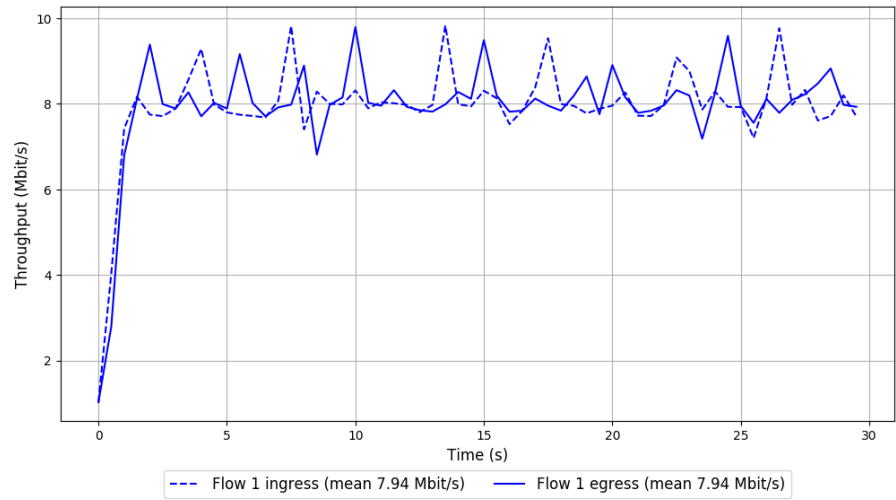
-- Flow 1:

Average throughput: 7.94 Mbit/s

95th percentile per-packet one-way delay: 51.445 ms

Loss rate: 0.00%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2017-12-11 14:36:26

End at: 2017-12-11 14:36:56

Below is generated by plot.py at 2017-12-11 16:43:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.69 Mbit/s

95th percentile per-packet one-way delay: 54.075 ms

Loss rate: 0.24%

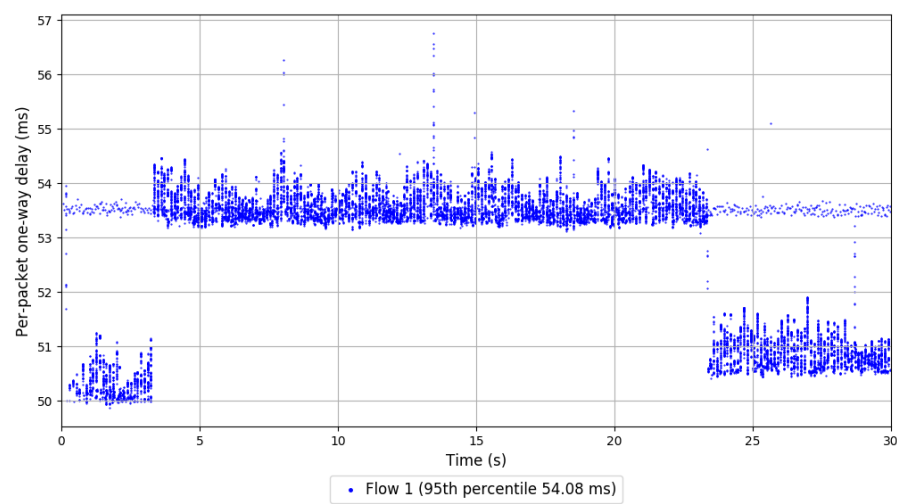
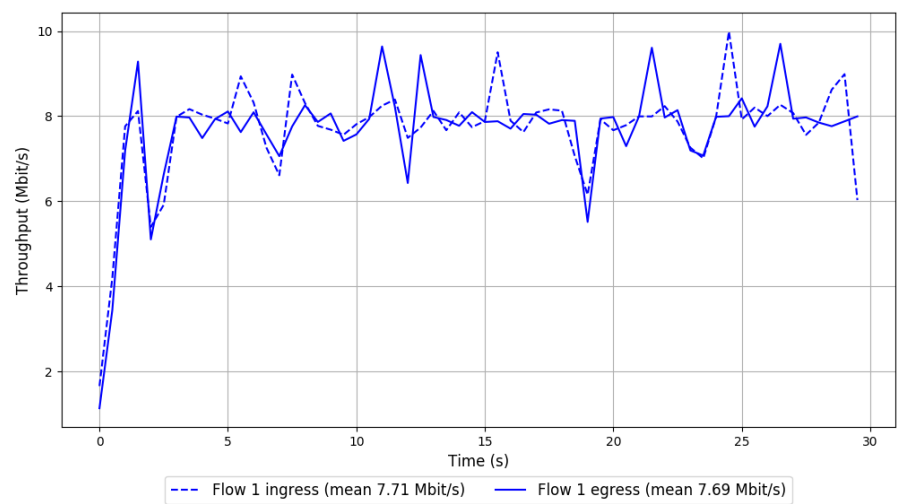
-- Flow 1:

Average throughput: 7.69 Mbit/s

95th percentile per-packet one-way delay: 54.075 ms

Loss rate: 0.24%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2017-12-11 14:46:41

End at: 2017-12-11 14:47:11

Below is generated by plot.py at 2017-12-11 16:43:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.71 Mbit/s

95th percentile per-packet one-way delay: 53.867 ms

Loss rate: 0.36%

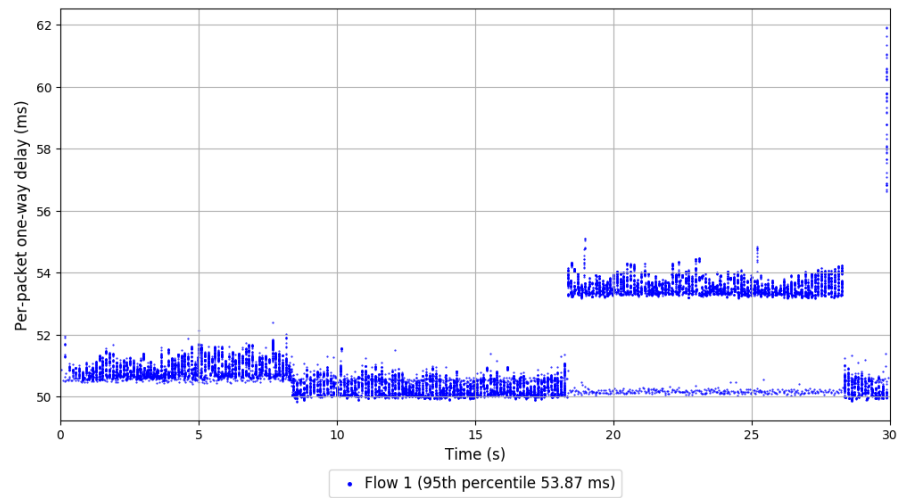
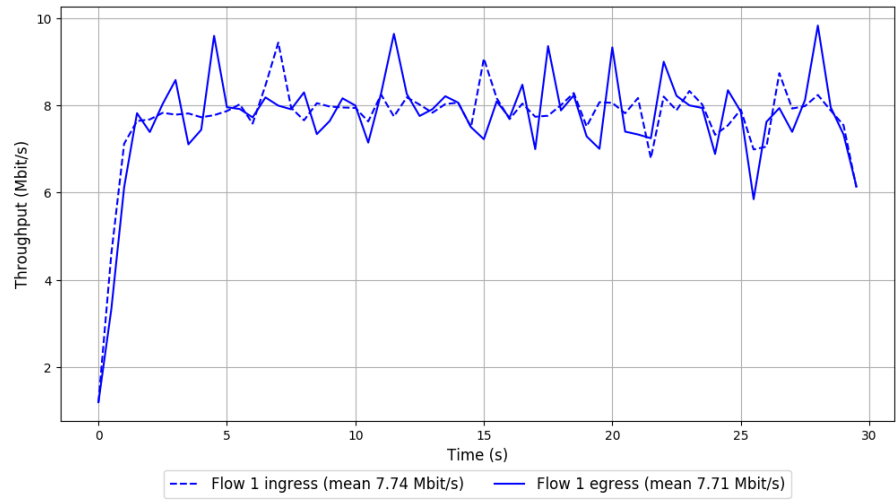
-- Flow 1:

Average throughput: 7.71 Mbit/s

95th percentile per-packet one-way delay: 53.867 ms

Loss rate: 0.36%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2017-12-11 14:56:58

End at: 2017-12-11 14:57:29

Below is generated by plot.py at 2017-12-11 16:43:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.81 Mbit/s

95th percentile per-packet one-way delay: 53.927 ms

Loss rate: 0.37%

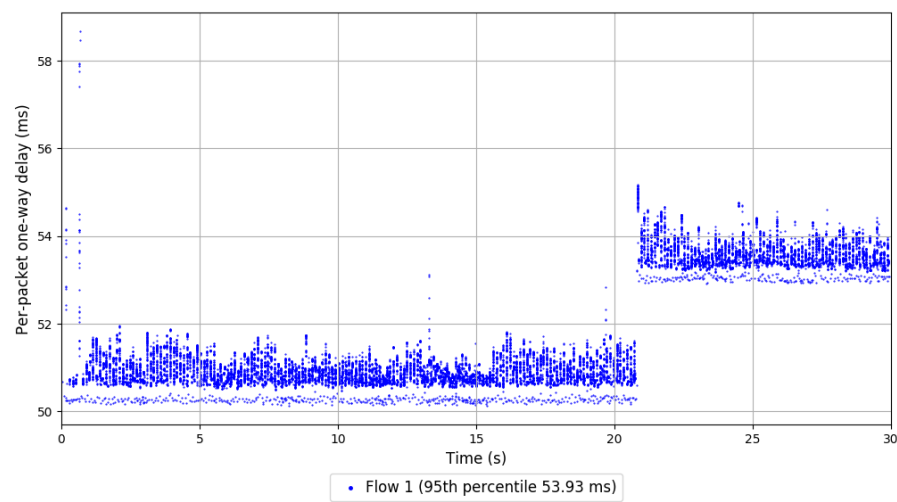
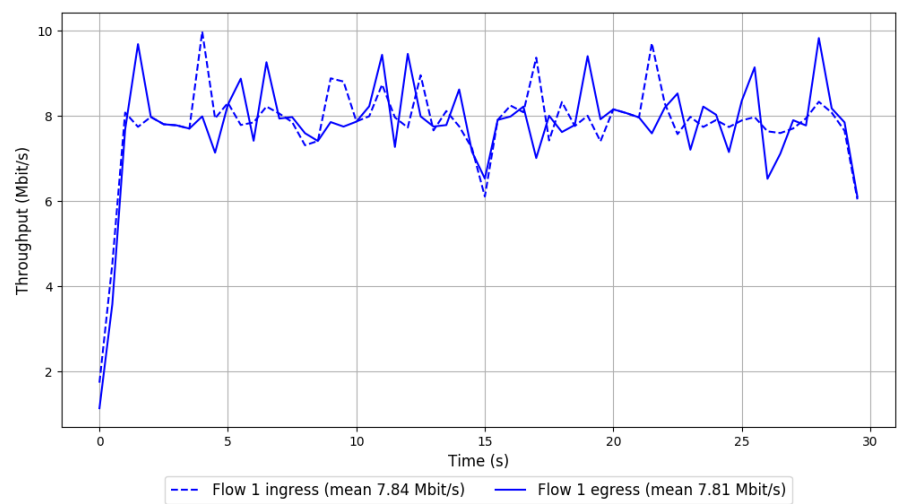
-- Flow 1:

Average throughput: 7.81 Mbit/s

95th percentile per-packet one-way delay: 53.927 ms

Loss rate: 0.37%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2017-12-11 15:07:02

End at: 2017-12-11 15:07:33

Below is generated by plot.py at 2017-12-11 16:43:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.71 Mbit/s

95th percentile per-packet one-way delay: 54.034 ms

Loss rate: 0.07%

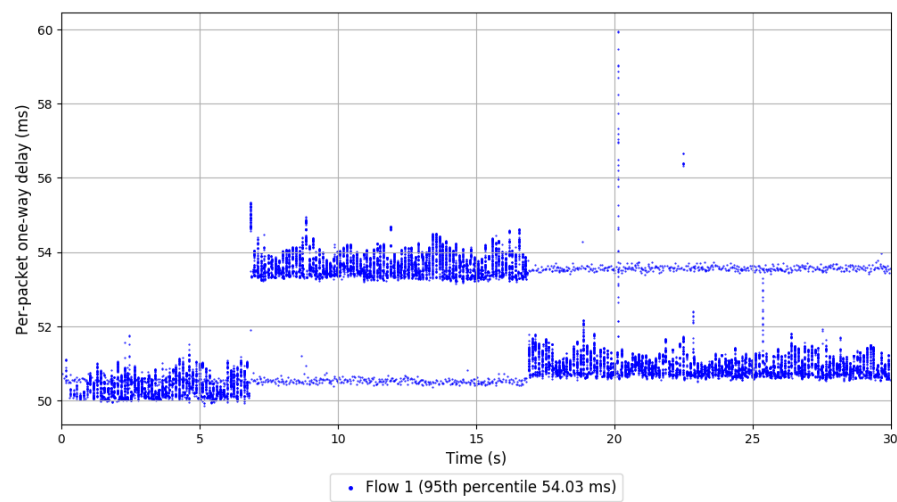
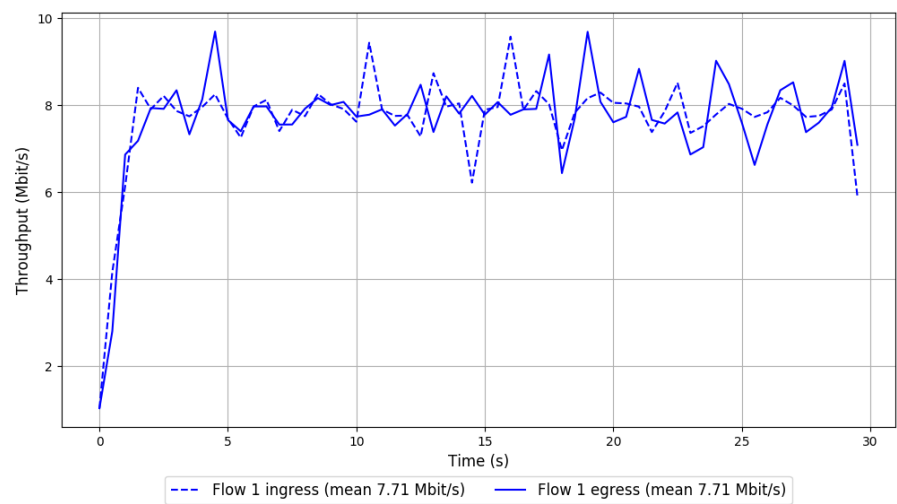
-- Flow 1:

Average throughput: 7.71 Mbit/s

95th percentile per-packet one-way delay: 54.034 ms

Loss rate: 0.07%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2017-12-11 15:17:28

End at: 2017-12-11 15:17:59

Below is generated by plot.py at 2017-12-11 16:43:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.72 Mbit/s

95th percentile per-packet one-way delay: 54.119 ms

Loss rate: 0.03%

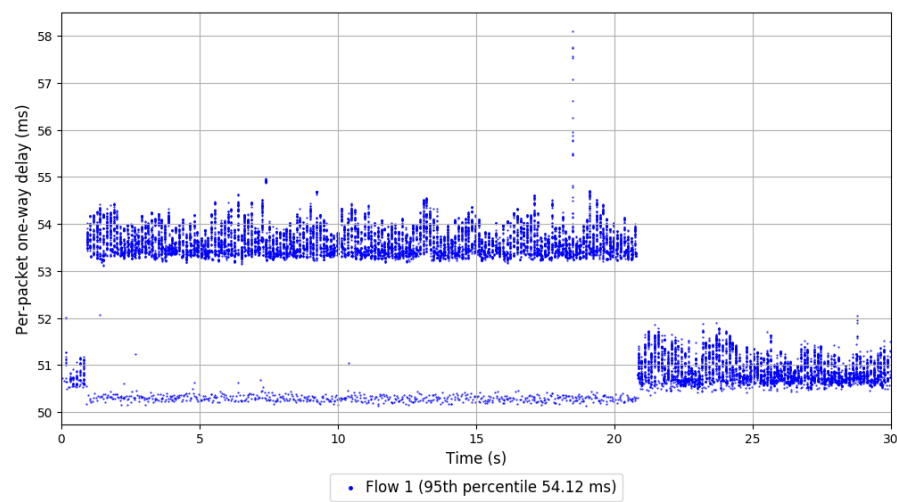
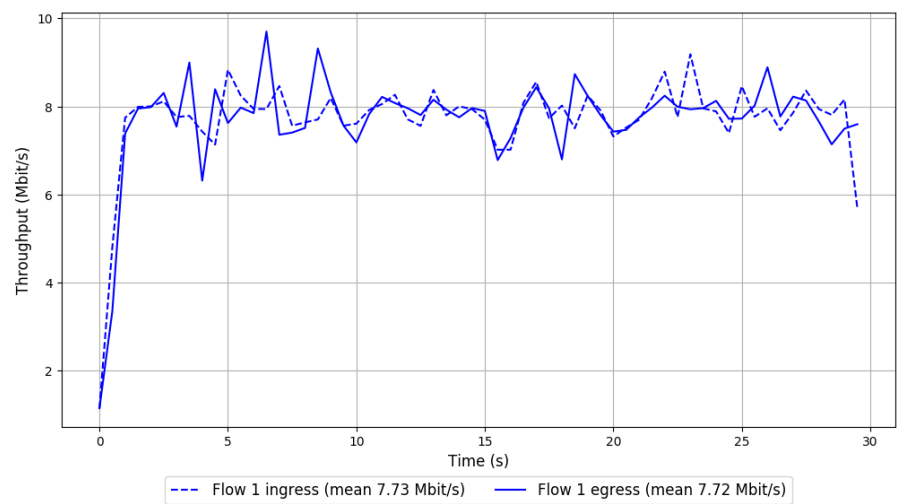
-- Flow 1:

Average throughput: 7.72 Mbit/s

95th percentile per-packet one-way delay: 54.119 ms

Loss rate: 0.03%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2017-12-11 15:27:52

End at: 2017-12-11 15:28:22

Below is generated by plot.py at 2017-12-11 16:43:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.87 Mbit/s

95th percentile per-packet one-way delay: 51.448 ms

Loss rate: 0.26%

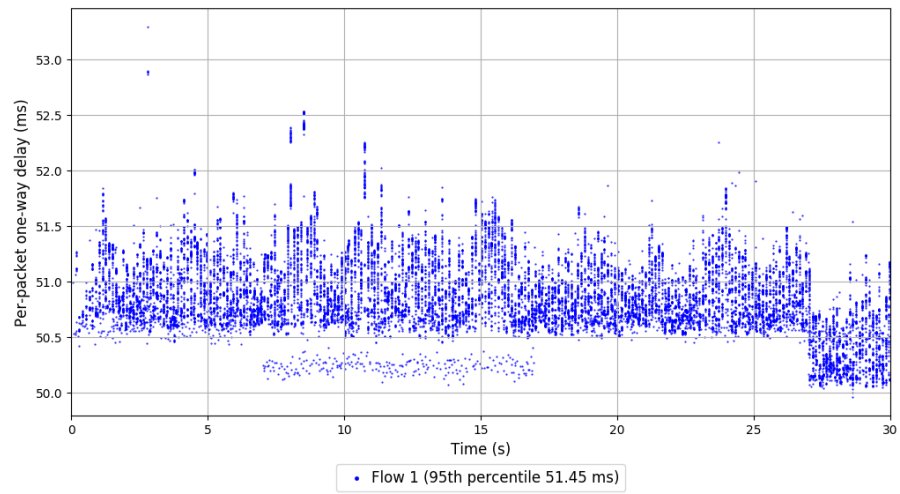
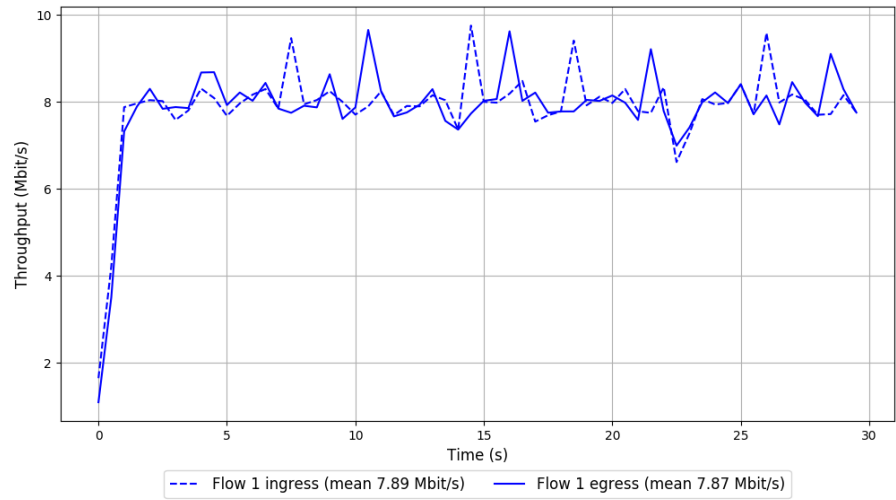
-- Flow 1:

Average throughput: 7.87 Mbit/s

95th percentile per-packet one-way delay: 51.448 ms

Loss rate: 0.26%

Run 10: Report of Sprout — Data Link

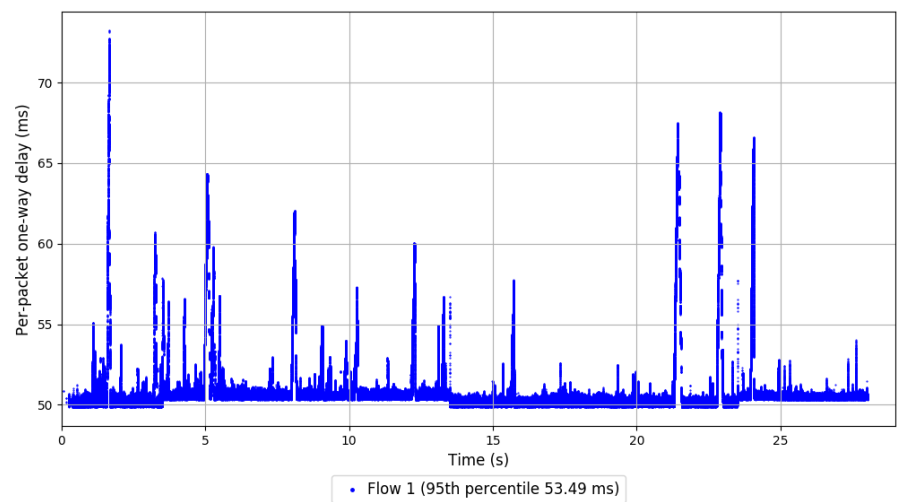
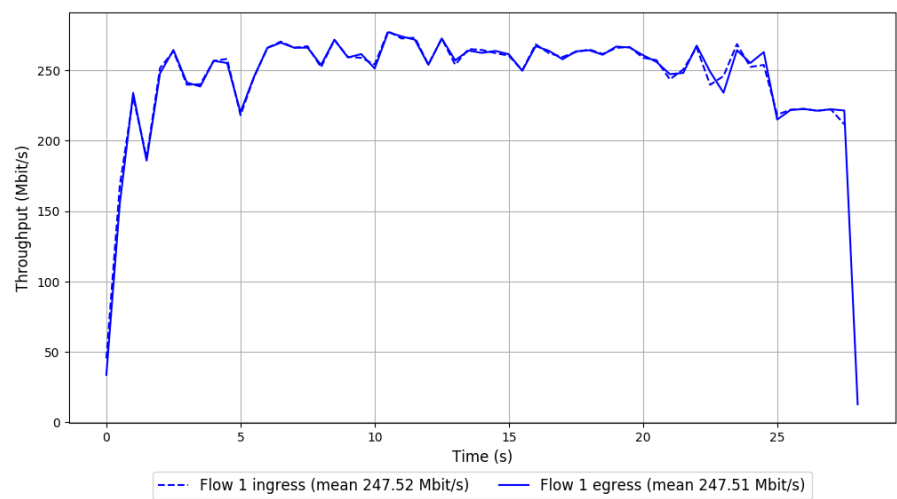


```
Run 1: Statistics of TaoVA-100x

Start at: 2017-12-11 13:59:04
End at: 2017-12-11 13:59:34

# Below is generated by plot.py at 2017-12-11 16:43:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 247.51 Mbit/s
95th percentile per-packet one-way delay: 53.488 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 247.51 Mbit/s
95th percentile per-packet one-way delay: 53.488 ms
Loss rate: 0.00%
```


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

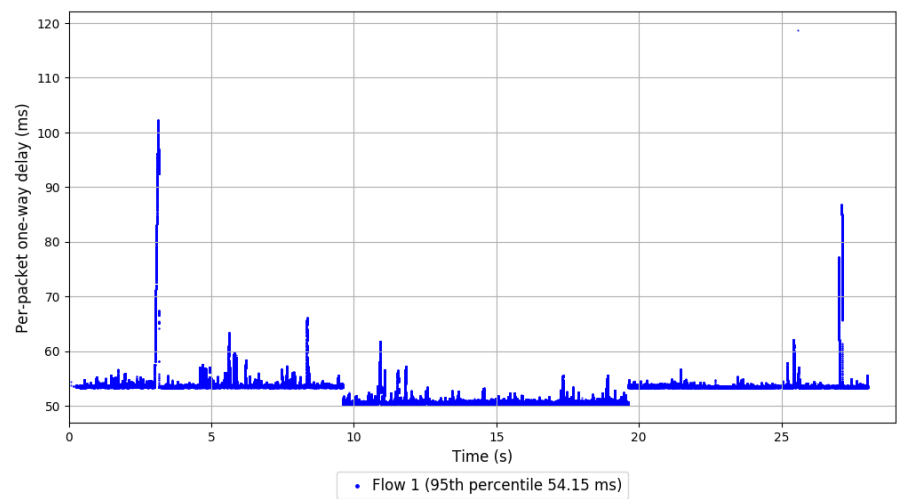
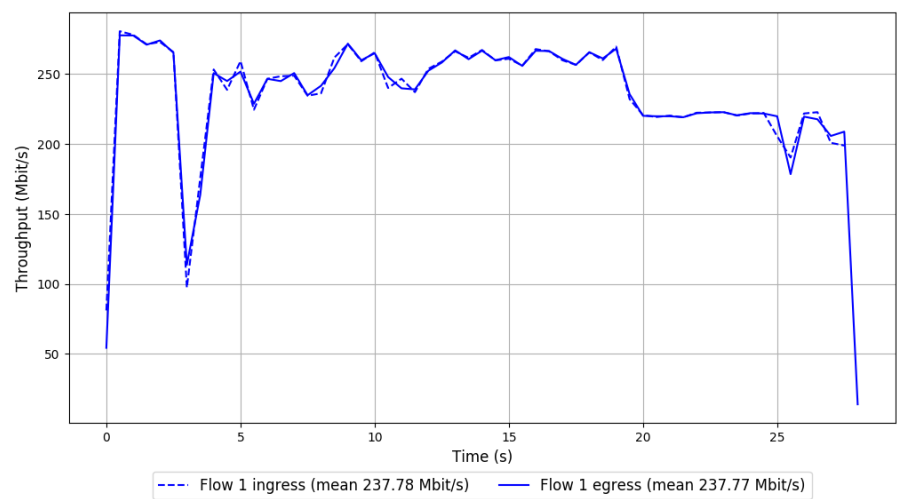


```
Run 2: Statistics of TaoVA-100x

Start at: 2017-12-11 14:09:28
End at: 2017-12-11 14:09:58

# Below is generated by plot.py at 2017-12-11 16:43:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 237.77 Mbit/s
95th percentile per-packet one-way delay: 54.147 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 237.77 Mbit/s
95th percentile per-packet one-way delay: 54.147 ms
Loss rate: 0.00%
```

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



Run 3: Statistics of TaoVA-100x

Start at: 2017-12-11 14:19:46

End at: 2017-12-11 14:20:16

Below is generated by plot.py at 2017-12-11 16:43:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.81 Mbit/s

95th percentile per-packet one-way delay: 51.417 ms

Loss rate: 0.01%

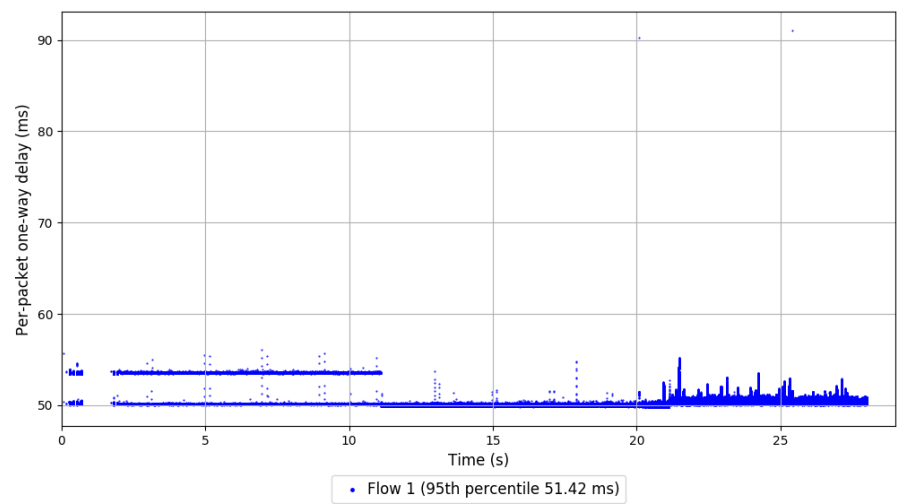
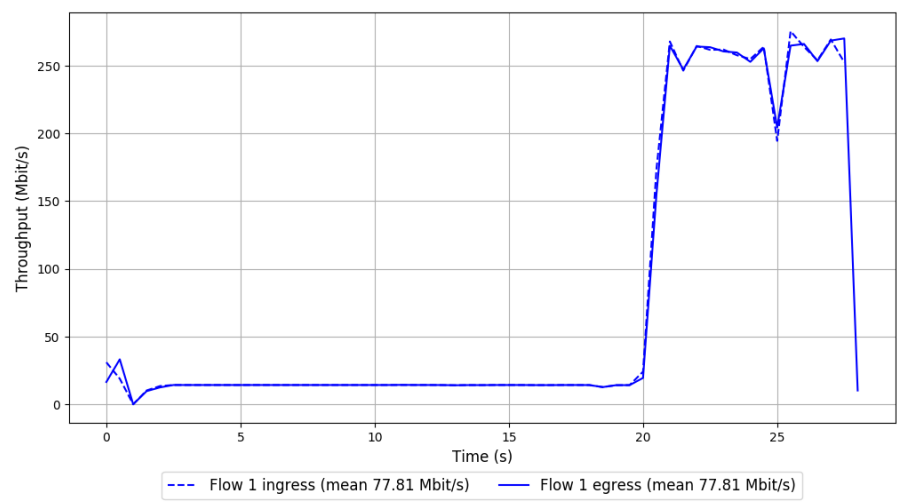
-- Flow 1:

Average throughput: 77.81 Mbit/s

95th percentile per-packet one-way delay: 51.417 ms

Loss rate: 0.01%

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



Run 4: Statistics of TaoVA-100x

Start at: 2017-12-11 14:29:57

End at: 2017-12-11 14:30:27

Below is generated by plot.py at 2017-12-11 16:43:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.66 Mbit/s

95th percentile per-packet one-way delay: 53.262 ms

Loss rate: 0.00%

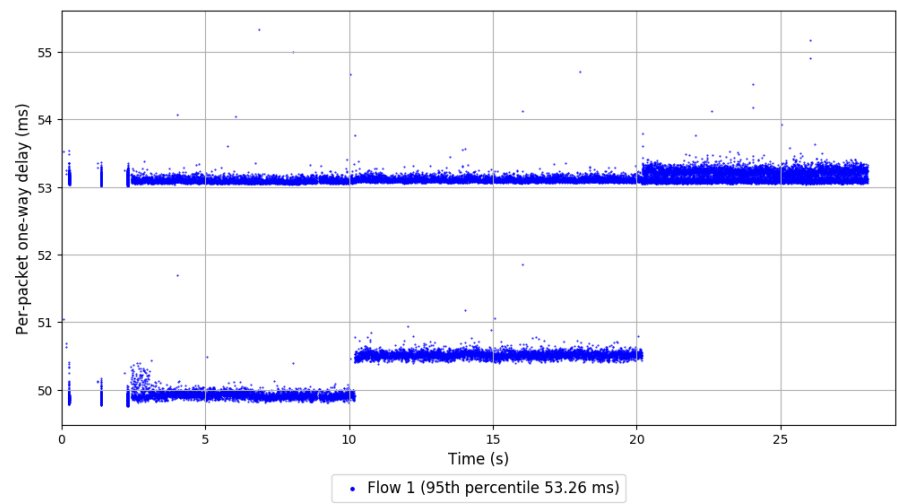
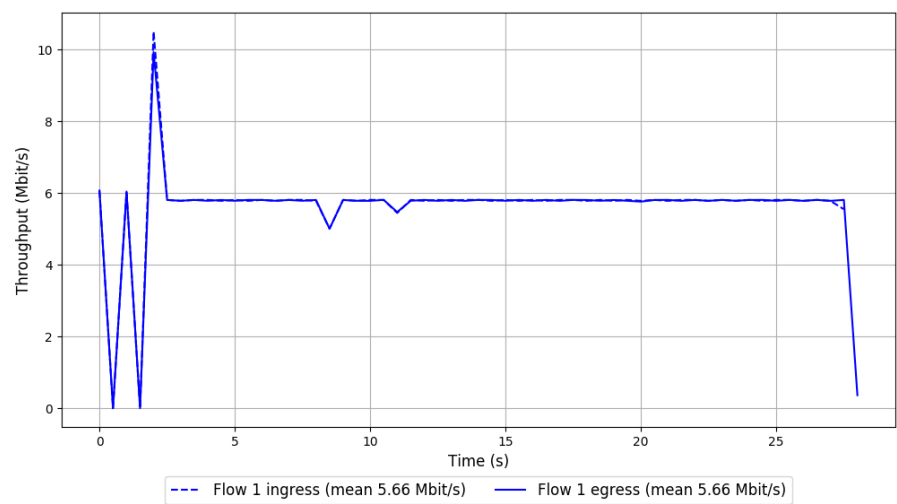
-- Flow 1:

Average throughput: 5.66 Mbit/s

95th percentile per-packet one-way delay: 53.262 ms

Loss rate: 0.00%

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



Run 5: Statistics of TaoVA-100x

Start at: 2017-12-11 14:40:17

End at: 2017-12-11 14:40:47

Below is generated by plot.py at 2017-12-11 16:43:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.99 Mbit/s

95th percentile per-packet one-way delay: 53.215 ms

Loss rate: 0.00%

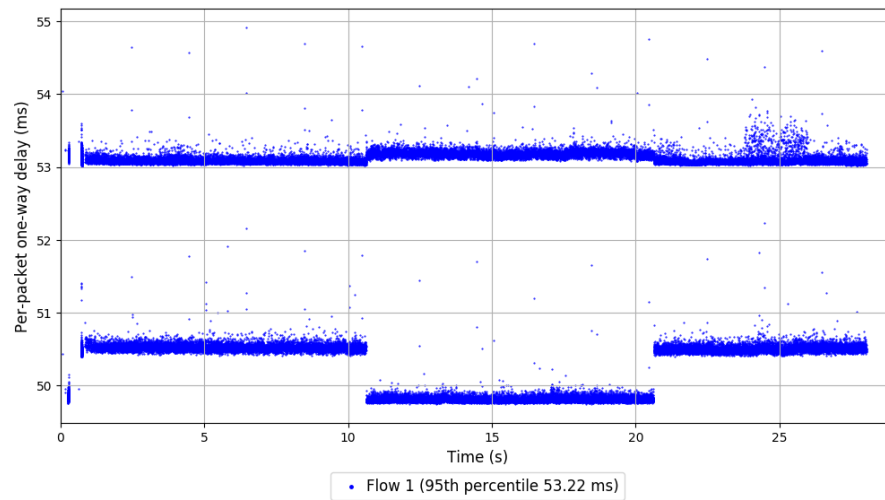
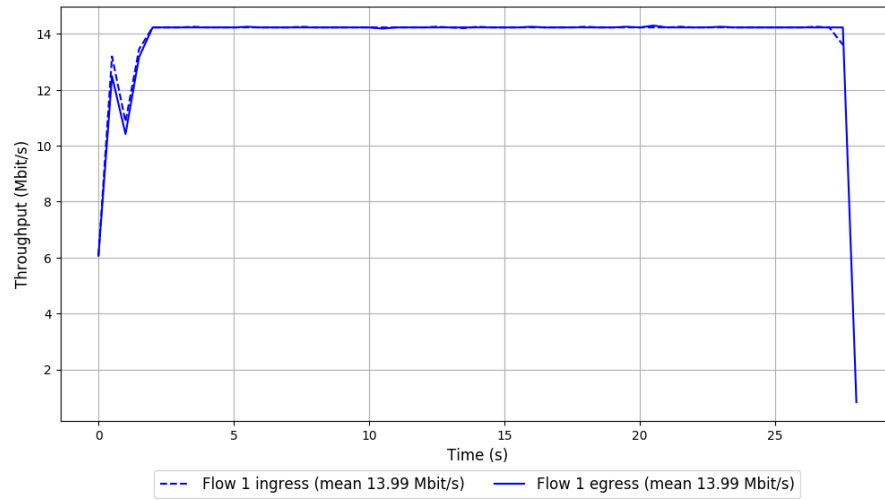
-- Flow 1:

Average throughput: 13.99 Mbit/s

95th percentile per-packet one-way delay: 53.215 ms

Loss rate: 0.00%

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



Run 6: Statistics of TaoVA-100x

Start at: 2017-12-11 14:50:19

End at: 2017-12-11 14:50:49

Below is generated by plot.py at 2017-12-11 16:43:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 169.13 Mbit/s

95th percentile per-packet one-way delay: 50.957 ms

Loss rate: 0.00%

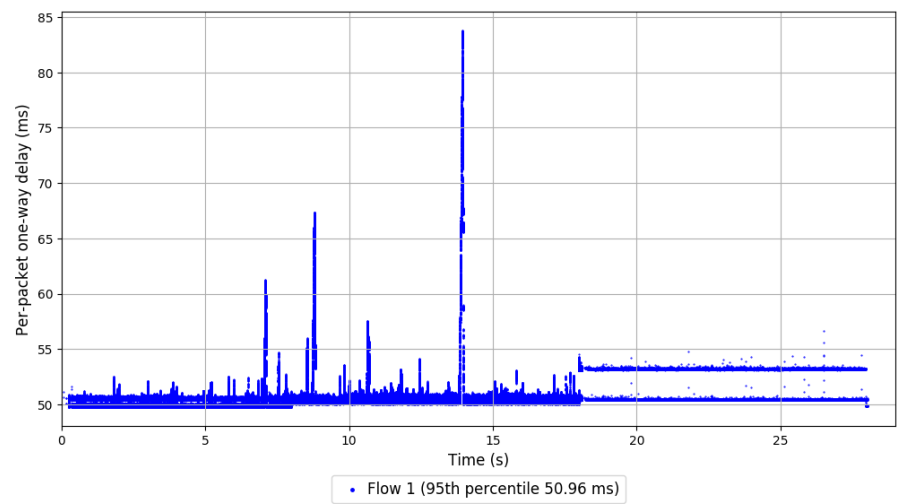
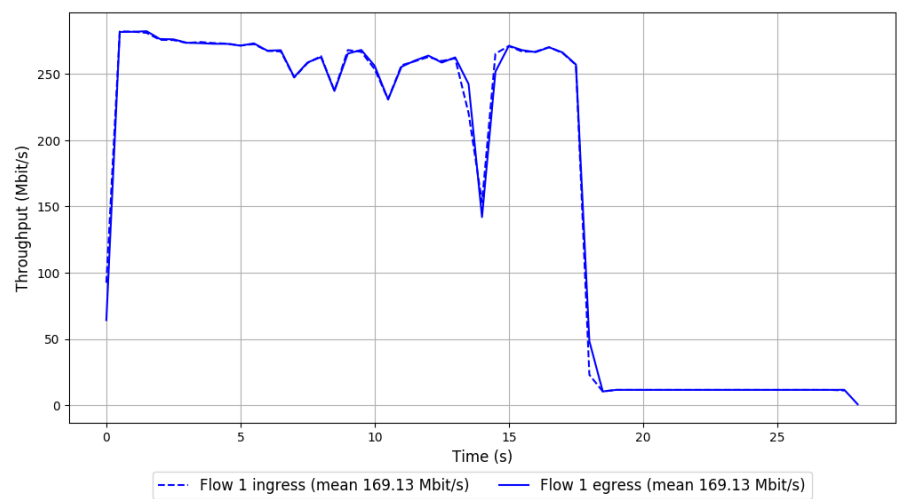
-- Flow 1:

Average throughput: 169.13 Mbit/s

95th percentile per-packet one-way delay: 50.957 ms

Loss rate: 0.00%

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



Run 7: Statistics of TaoVA-100x

Start at: 2017-12-11 15:00:36

End at: 2017-12-11 15:01:06

Below is generated by plot.py at 2017-12-11 16:43:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.02 Mbit/s

95th percentile per-packet one-way delay: 53.242 ms

Loss rate: 0.00%

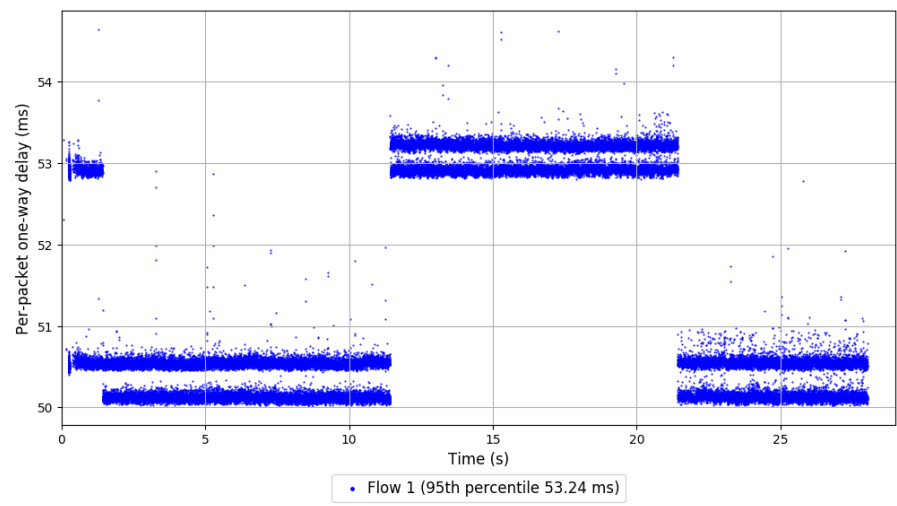
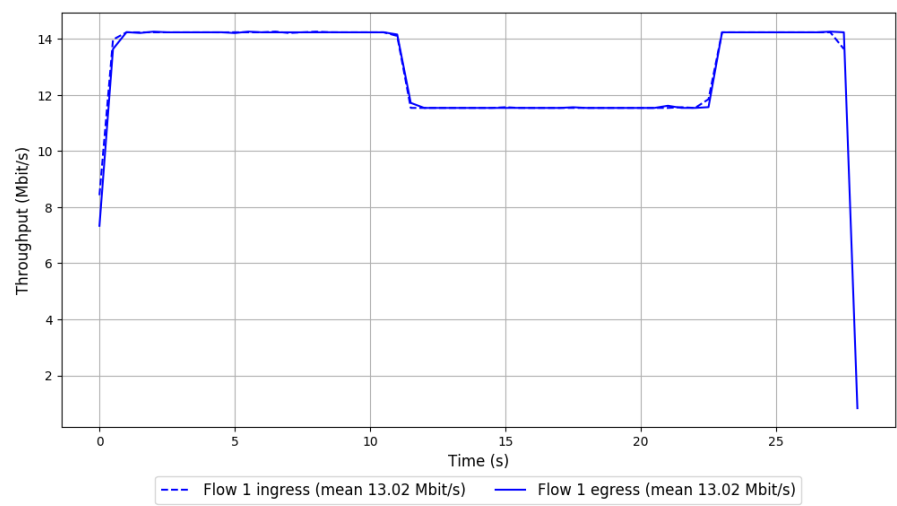
-- Flow 1:

Average throughput: 13.02 Mbit/s

95th percentile per-packet one-way delay: 53.242 ms

Loss rate: 0.00%

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



Run 8: Statistics of TaoVA-100x

Start at: 2017-12-11 15:10:41

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

Below is generated by plot.py at 2017-12-11 16:43:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 168.93 Mbit/s

95th percentile per-packet one-way delay: 52.916 ms

Loss rate: 0.01%

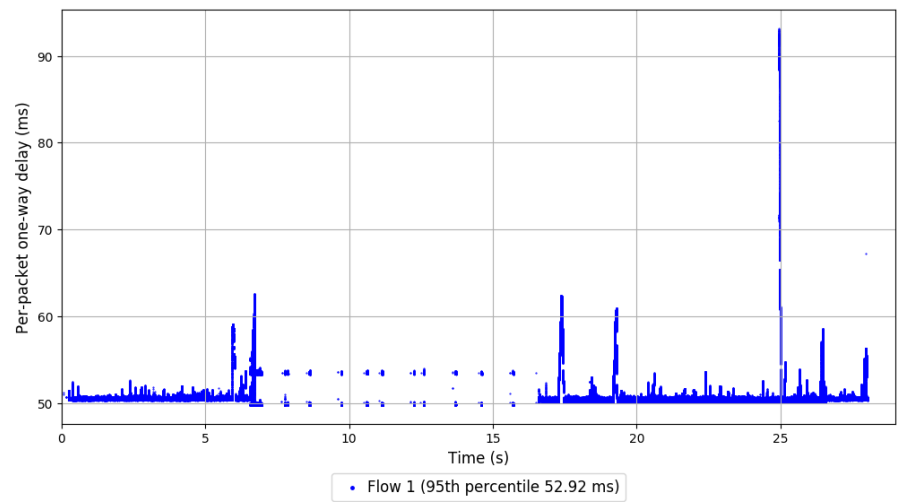
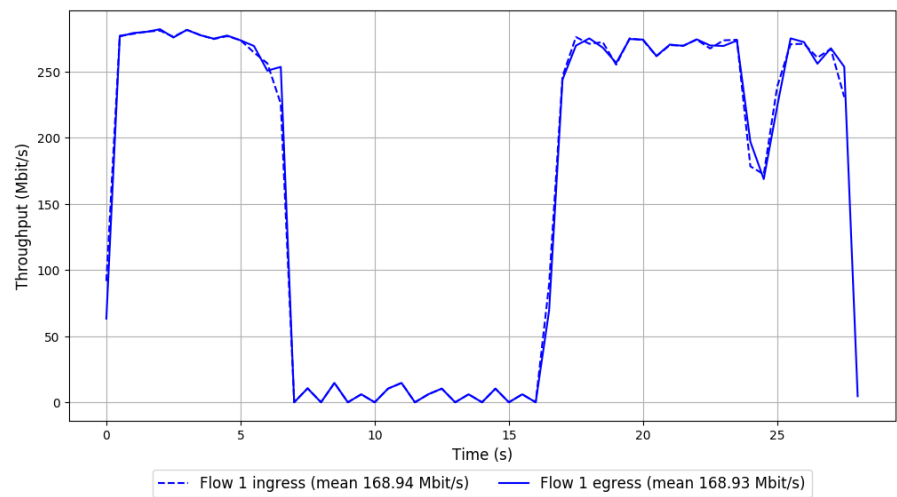
-- Flow 1:

Average throughput: 168.93 Mbit/s

95th percentile per-packet one-way delay: 52.916 ms

Loss rate: 0.01%

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



Run 9: Statistics of TaoVA-100x

Start at: 2017-12-11 15:21:06

End at: 2017-12-11 15:21:36

Below is generated by plot.py at 2017-12-11 16:44:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 264.09 Mbit/s

95th percentile per-packet one-way delay: 51.685 ms

Loss rate: 0.00%

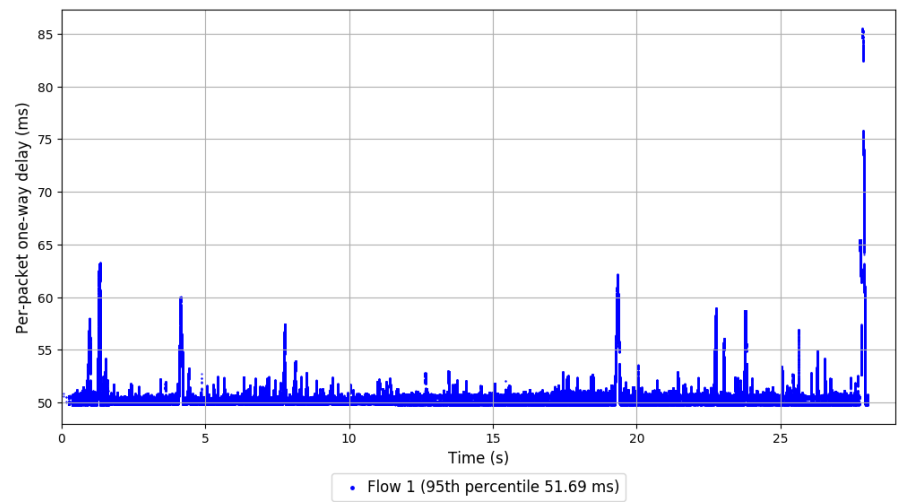
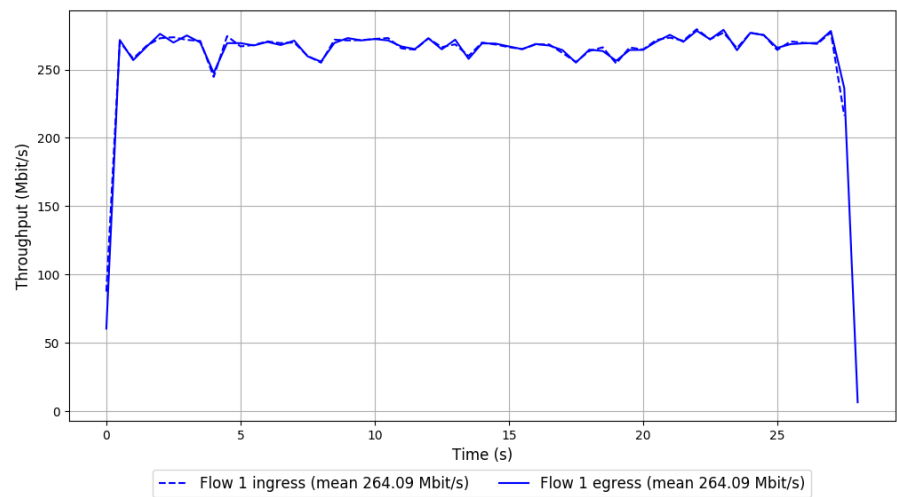
-- Flow 1:

Average throughput: 264.09 Mbit/s

95th percentile per-packet one-way delay: 51.685 ms

Loss rate: 0.00%

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

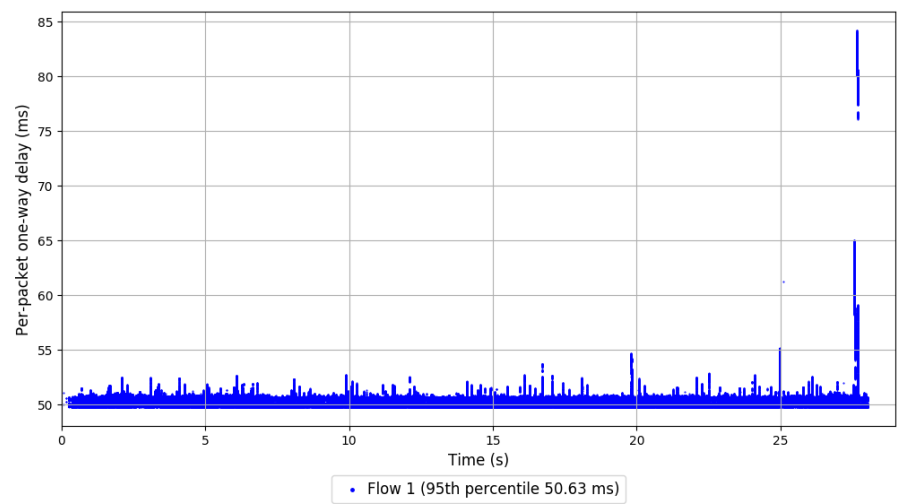
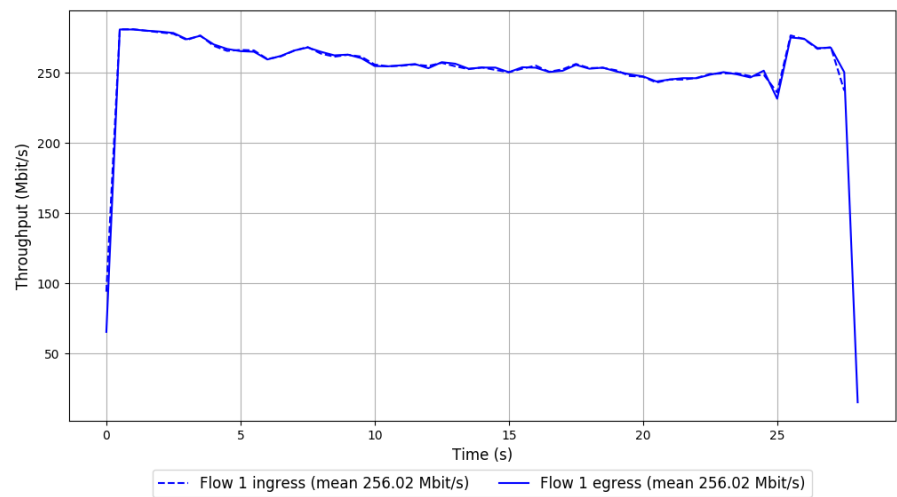


```
Run 10: Statistics of TaoVA-100x

Start at: 2017-12-11 15:31:31
End at: 2017-12-11 15:32:01

# Below is generated by plot.py at 2017-12-11 16:46:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 256.02 Mbit/s
95th percentile per-packet one-way delay: 50.633 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 256.02 Mbit/s
95th percentile per-packet one-way delay: 50.633 ms
Loss rate: 0.00%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2017-12-11 14:01:57

End at: 2017-12-11 14:02:27

Below is generated by plot.py at 2017-12-11 16:46:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 40.58 Mbit/s

95th percentile per-packet one-way delay: 51.598 ms

Loss rate: 0.00%

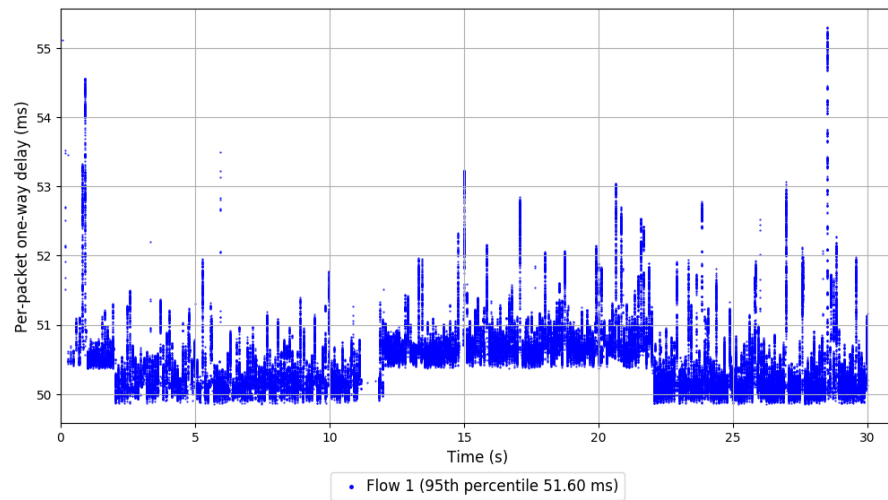
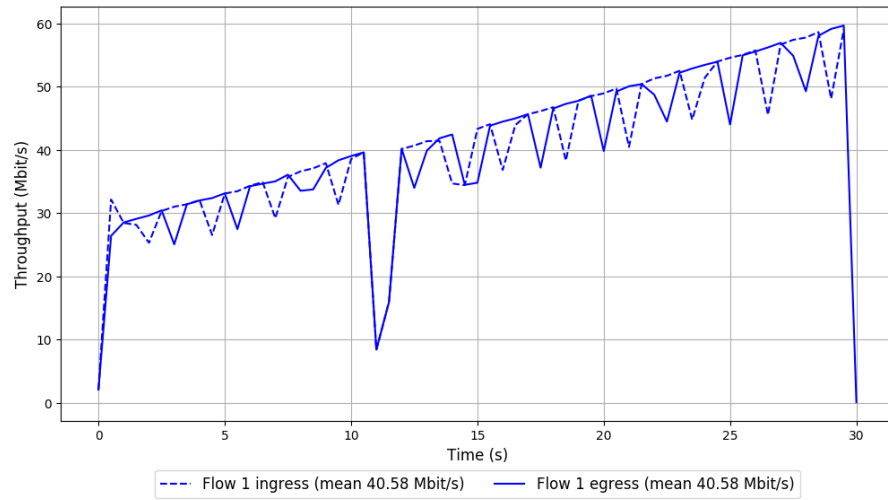
-- Flow 1:

Average throughput: 40.58 Mbit/s

95th percentile per-packet one-way delay: 51.598 ms

Loss rate: 0.00%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2017-12-11 14:12:19

End at: 2017-12-11 14:12:49

Below is generated by plot.py at 2017-12-11 16:46:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 19.32 Mbit/s

95th percentile per-packet one-way delay: 54.117 ms

Loss rate: 0.06%

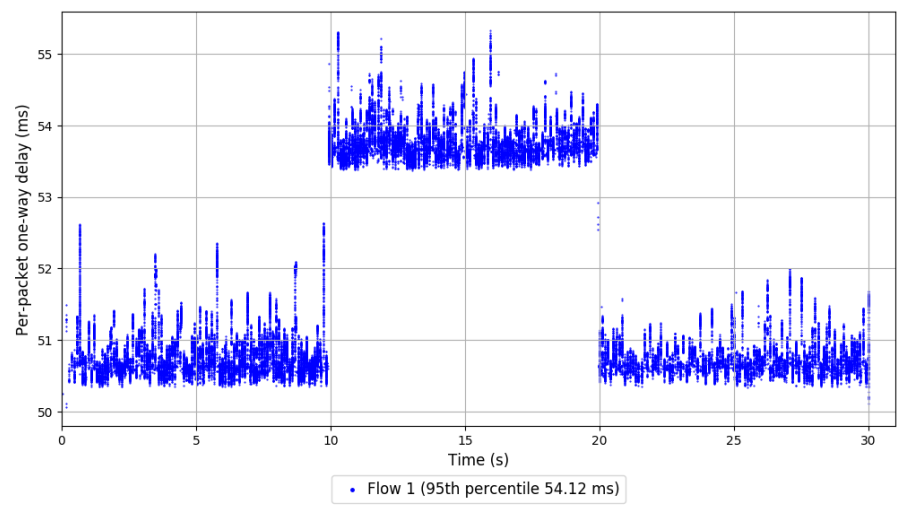
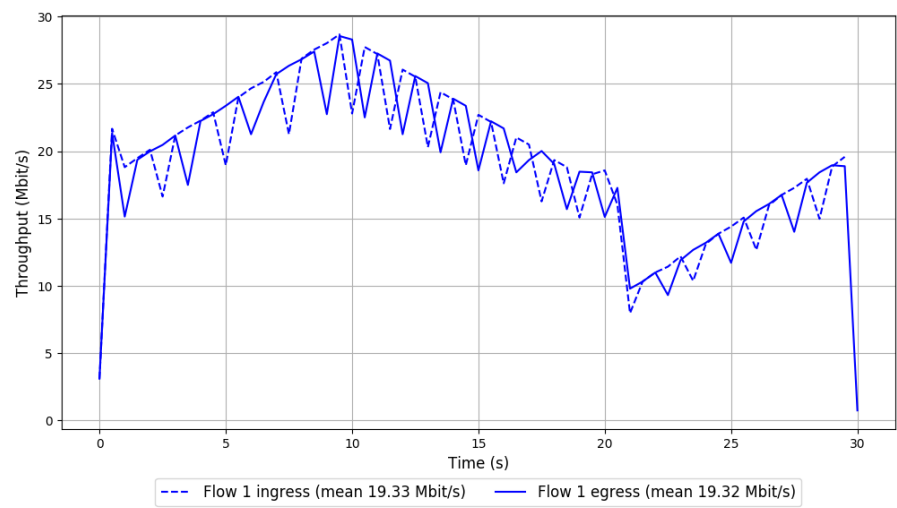
-- Flow 1:

Average throughput: 19.32 Mbit/s

95th percentile per-packet one-way delay: 54.117 ms

Loss rate: 0.06%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2017-12-11 14:22:25

End at: 2017-12-11 14:22:55

Below is generated by plot.py at 2017-12-11 16:46:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 34.22 Mbit/s

95th percentile per-packet one-way delay: 53.610 ms

Loss rate: 0.00%

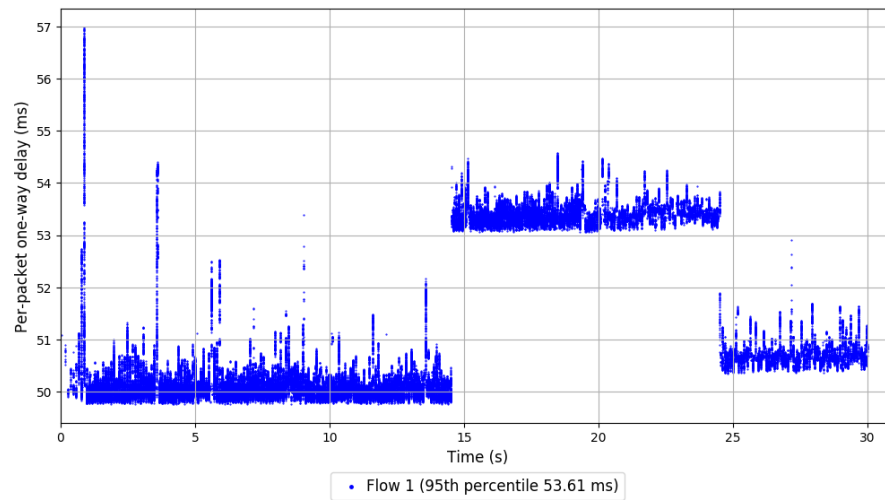
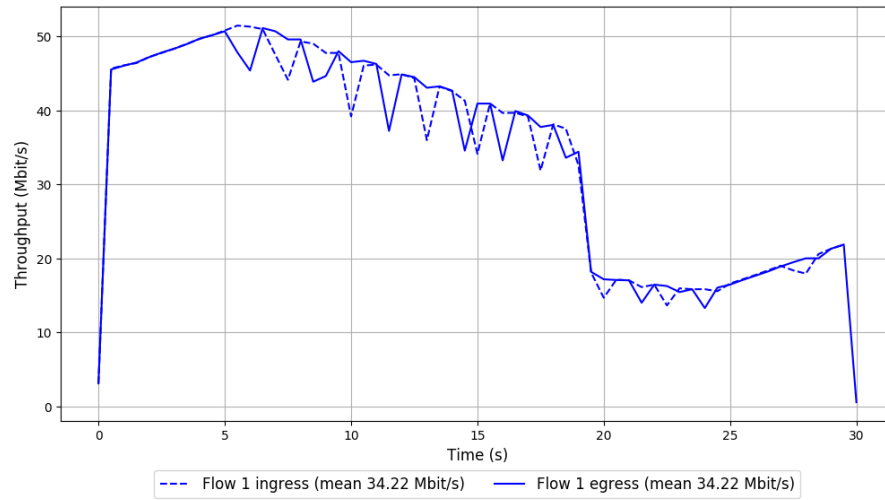
-- Flow 1:

Average throughput: 34.22 Mbit/s

95th percentile per-packet one-way delay: 53.610 ms

Loss rate: 0.00%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2017-12-11 14:32:30

End at: 2017-12-11 14:33:00

Below is generated by plot.py at 2017-12-11 16:46:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 40.62 Mbit/s

95th percentile per-packet one-way delay: 53.496 ms

Loss rate: 0.01%

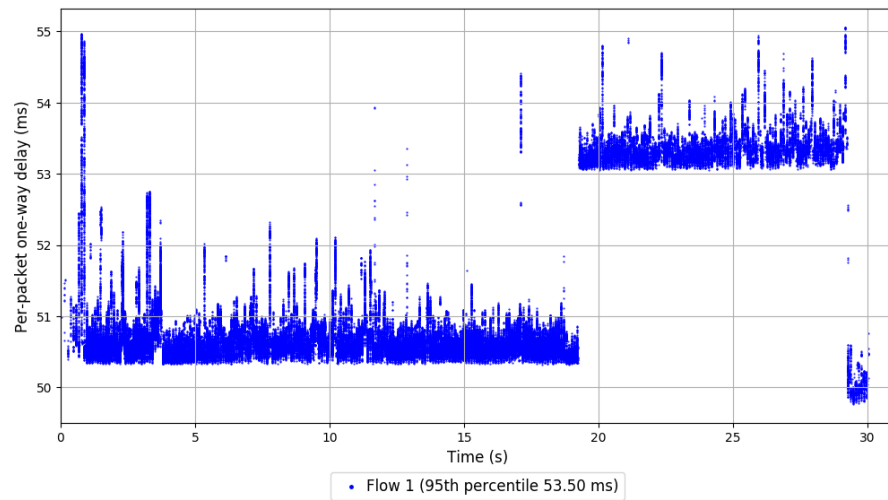
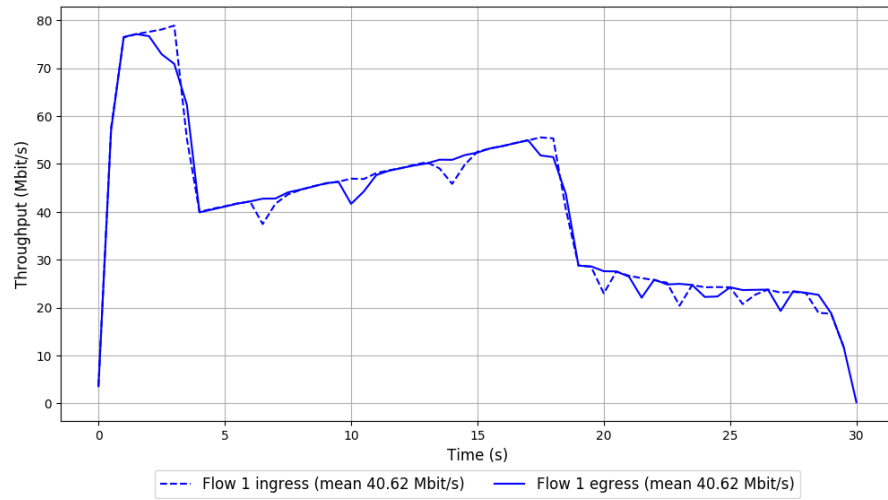
-- Flow 1:

Average throughput: 40.62 Mbit/s

95th percentile per-packet one-way delay: 53.496 ms

Loss rate: 0.01%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2017-12-11 14:42:50

End at: 2017-12-11 14:43:20

Below is generated by plot.py at 2017-12-11 16:46:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.43 Mbit/s

95th percentile per-packet one-way delay: 53.526 ms

Loss rate: 0.12%

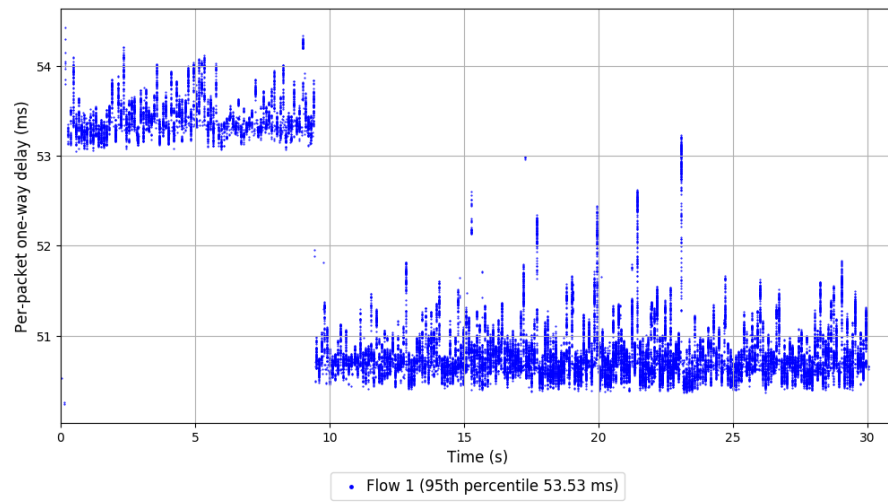
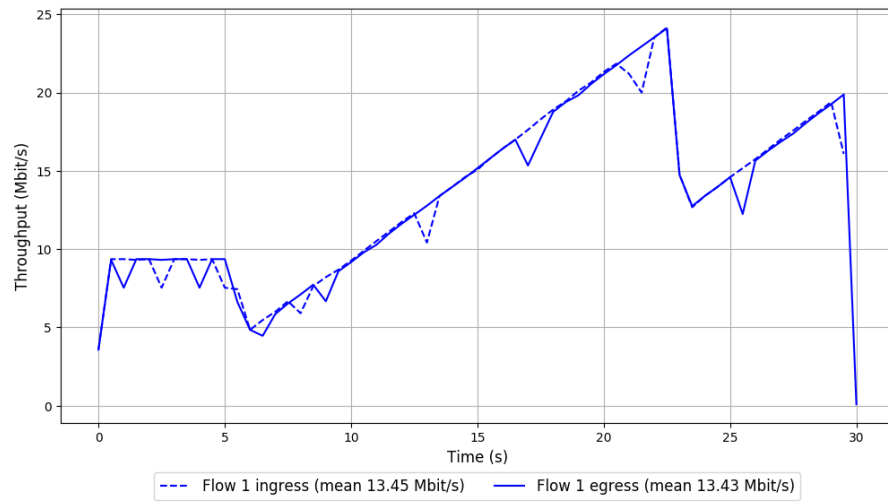
-- Flow 1:

Average throughput: 13.43 Mbit/s

95th percentile per-packet one-way delay: 53.526 ms

Loss rate: 0.12%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2017-12-11 14:53:07

End at: 2017-12-11 14:53:37

Below is generated by plot.py at 2017-12-11 16:46:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 26.98 Mbit/s

95th percentile per-packet one-way delay: 51.044 ms

Loss rate: 0.03%

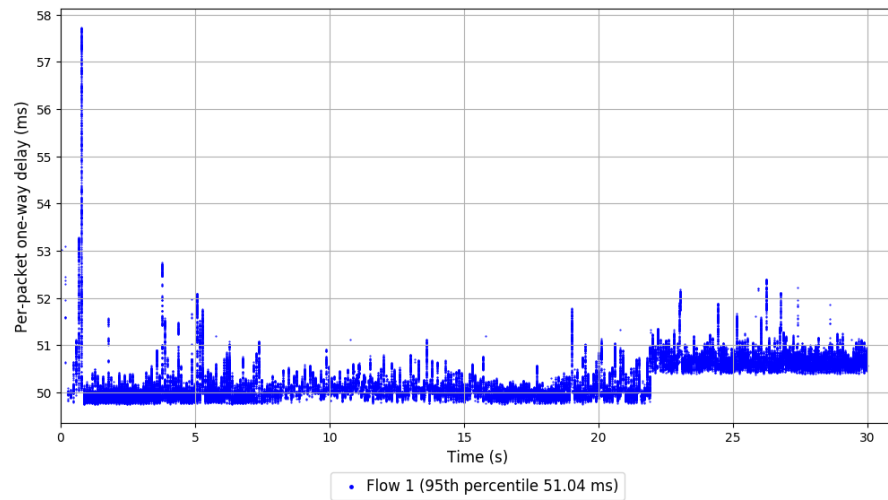
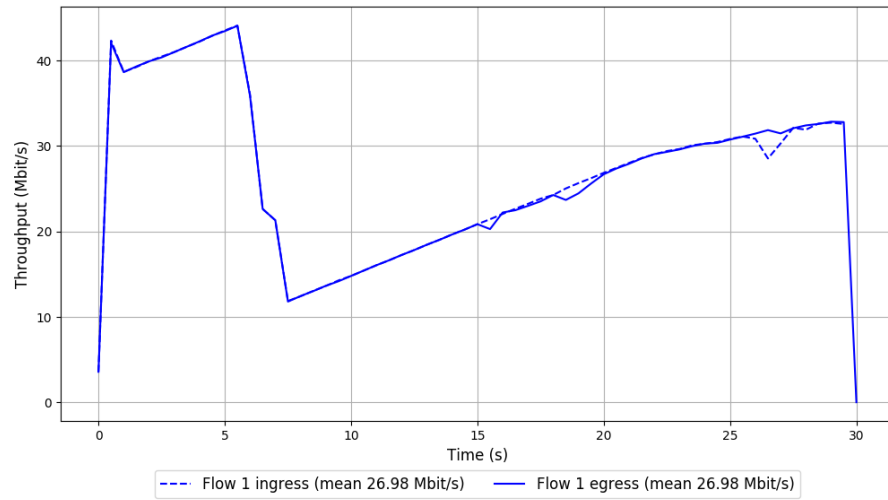
-- Flow 1:

Average throughput: 26.98 Mbit/s

95th percentile per-packet one-way delay: 51.044 ms

Loss rate: 0.03%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2017-12-11 15:03:08

End at: 2017-12-11 15:03:38

Below is generated by plot.py at 2017-12-11 16:46:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 42.91 Mbit/s

95th percentile per-packet one-way delay: 51.241 ms

Loss rate: 0.02%

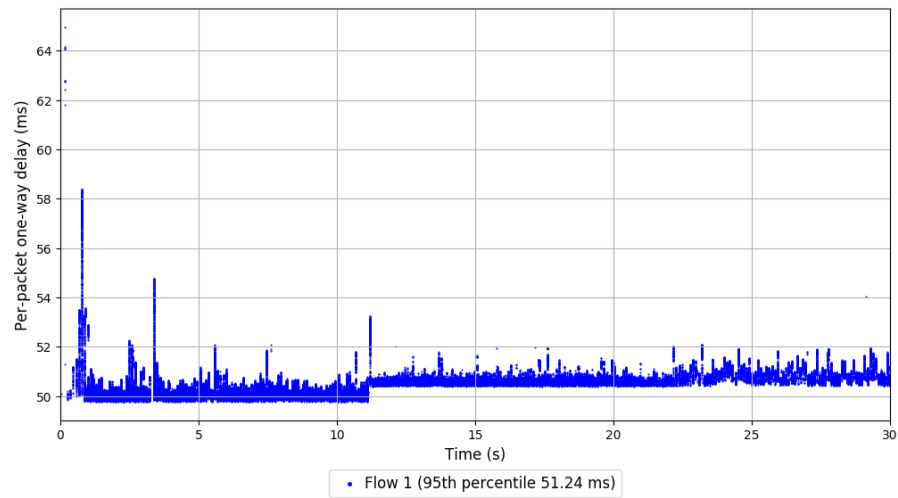
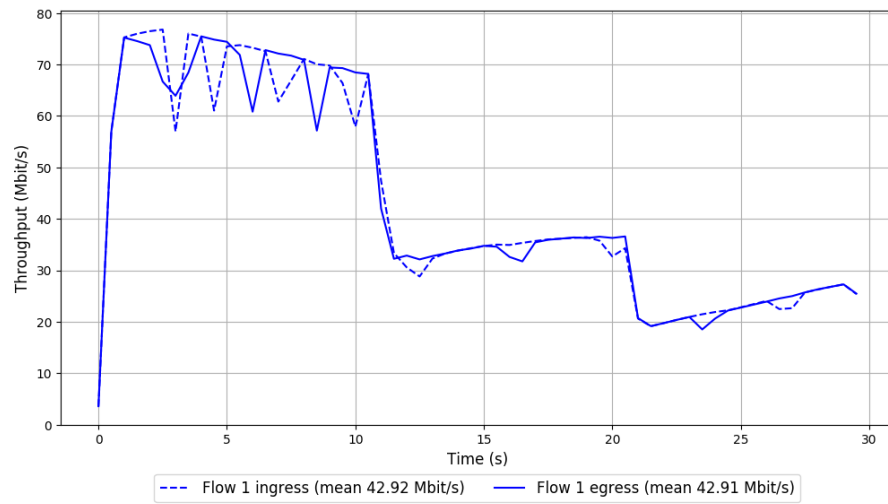
-- Flow 1:

Average throughput: 42.91 Mbit/s

95th percentile per-packet one-way delay: 51.241 ms

Loss rate: 0.02%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2017-12-11 15:13:37

End at: 2017-12-11 15:14:07

Below is generated by plot.py at 2017-12-11 16:46:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 26.21 Mbit/s

95th percentile per-packet one-way delay: 53.592 ms

Loss rate: 0.05%

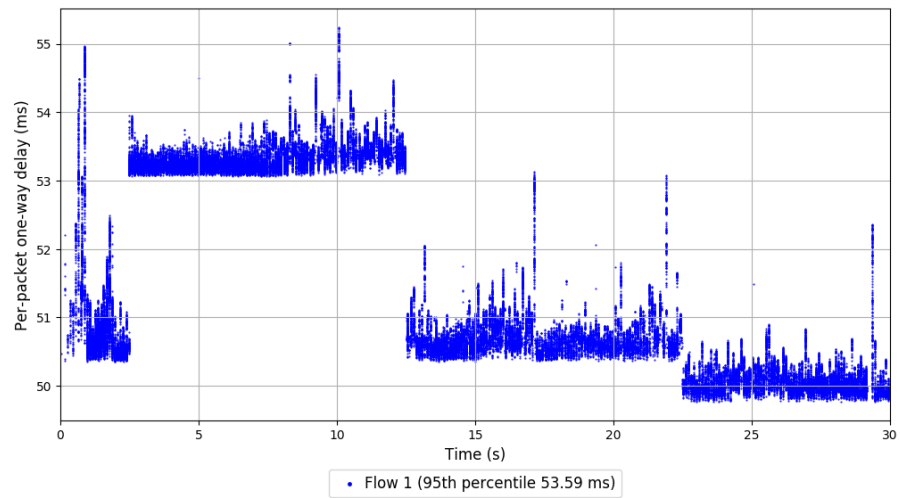
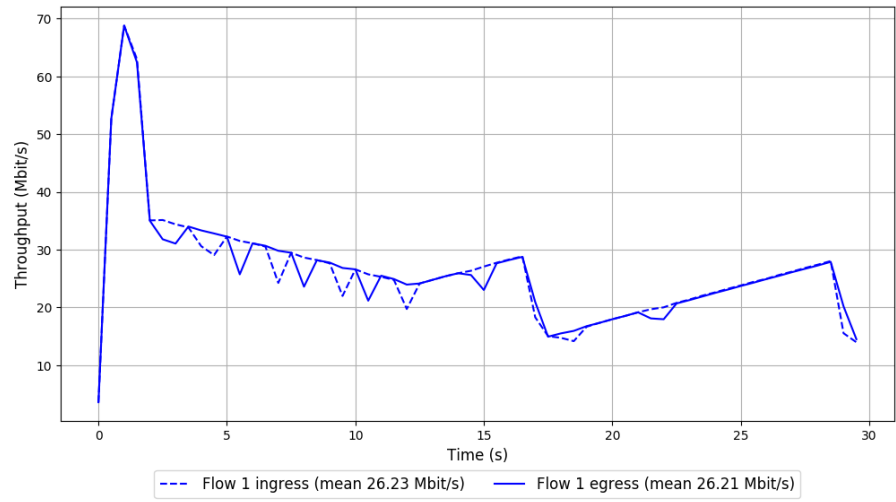
-- Flow 1:

Average throughput: 26.21 Mbit/s

95th percentile per-packet one-way delay: 53.592 ms

Loss rate: 0.05%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2017-12-11 15:23:59

End at: 2017-12-11 15:24:29

Below is generated by plot.py at 2017-12-11 16:46:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 8.29 Mbit/s

95th percentile per-packet one-way delay: 54.183 ms

Loss rate: 0.07%

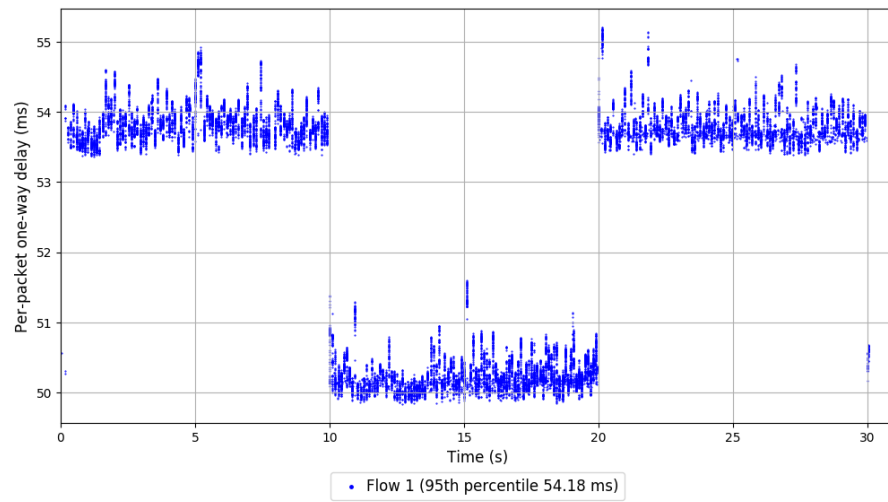
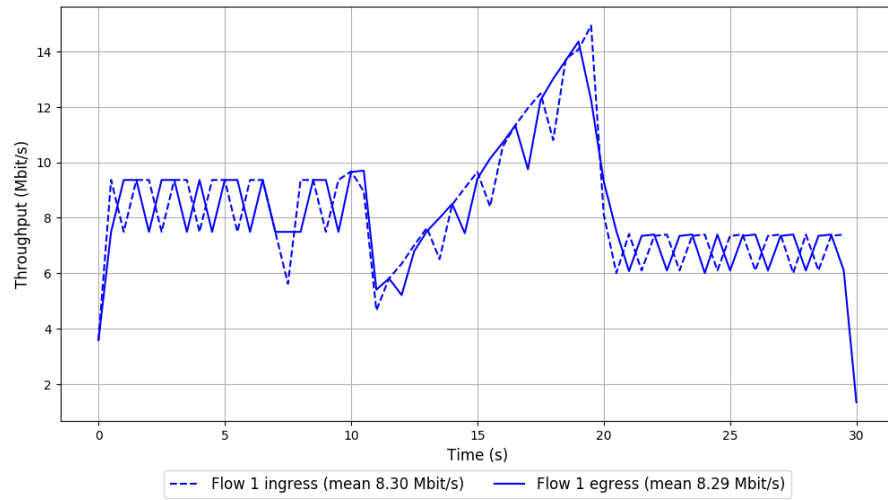
-- Flow 1:

Average throughput: 8.29 Mbit/s

95th percentile per-packet one-way delay: 54.183 ms

Loss rate: 0.07%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2017-12-11 15:34:23

End at: 2017-12-11 15:34:53

Below is generated by plot.py at 2017-12-11 16:46:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 53.60 Mbit/s

95th percentile per-packet one-way delay: 51.678 ms

Loss rate: 0.02%

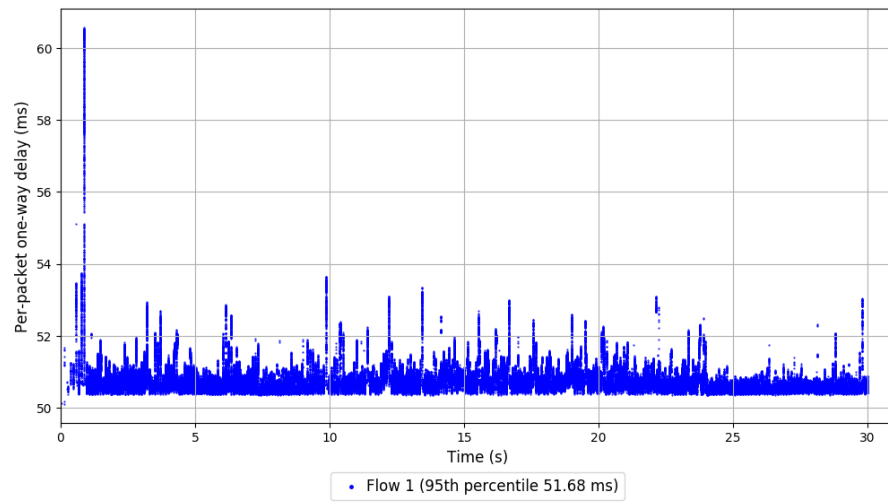
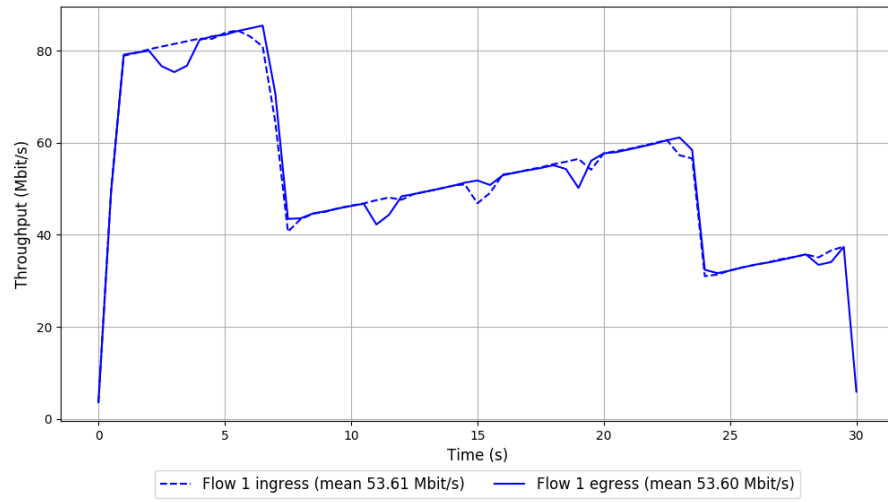
-- Flow 1:

Average throughput: 53.60 Mbit/s

95th percentile per-packet one-way delay: 51.678 ms

Loss rate: 0.02%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2017-12-11 13:53:49

End at: 2017-12-11 13:54:19

Below is generated by plot.py at 2017-12-11 16:47:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 244.15 Mbit/s

95th percentile per-packet one-way delay: 93.696 ms

Loss rate: 1.19%

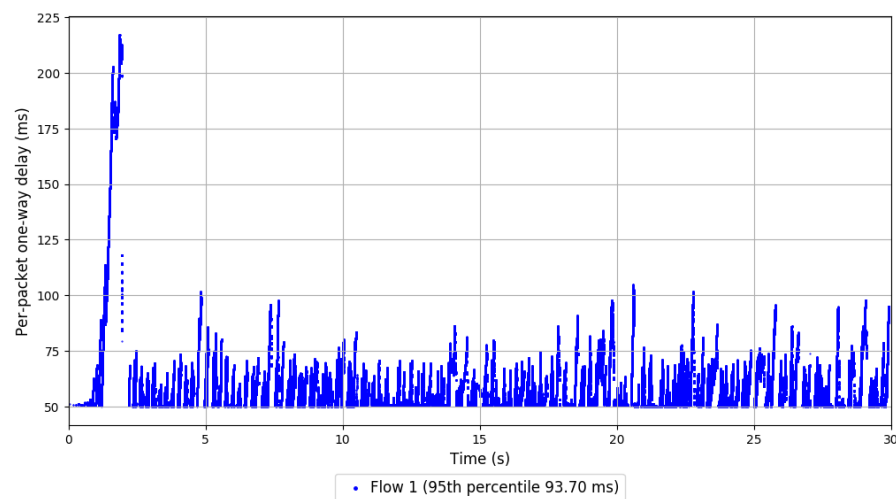
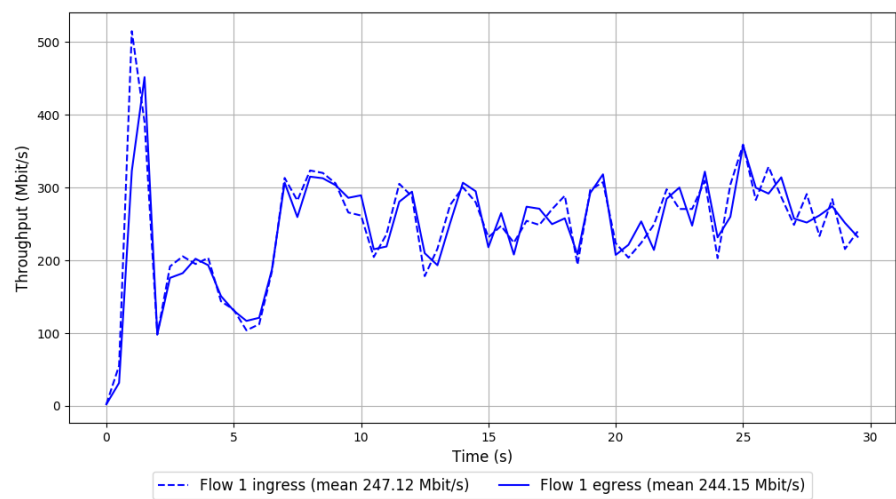
-- Flow 1:

Average throughput: 244.15 Mbit/s

95th percentile per-packet one-way delay: 93.696 ms

Loss rate: 1.19%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2017-12-11 14:04:15

End at: 2017-12-11 14:04:45

Below is generated by plot.py at 2017-12-11 16:47:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 226.15 Mbit/s

95th percentile per-packet one-way delay: 140.416 ms

Loss rate: 0.90%

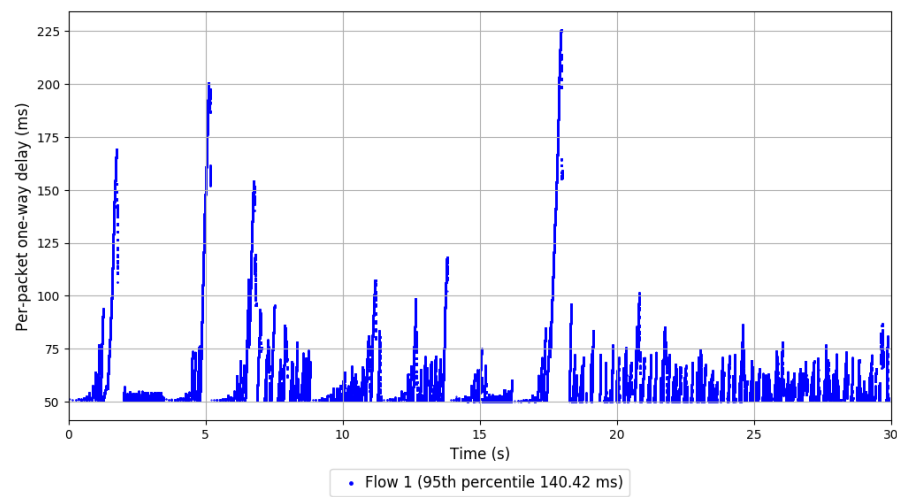
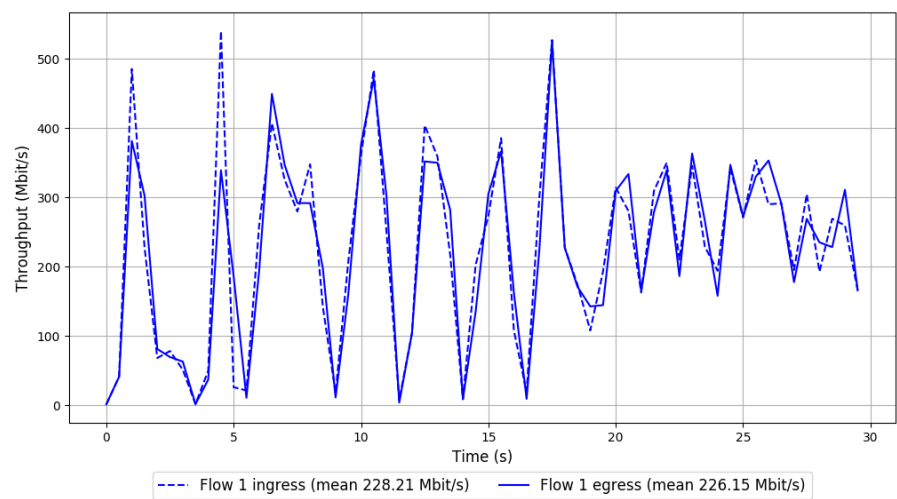
-- Flow 1:

Average throughput: 226.15 Mbit/s

95th percentile per-packet one-way delay: 140.416 ms

Loss rate: 0.90%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2017-12-11 14:14:35

End at: 2017-12-11 14:15:05

Below is generated by plot.py at 2017-12-11 16:47:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 227.46 Mbit/s

95th percentile per-packet one-way delay: 127.983 ms

Loss rate: 0.77%

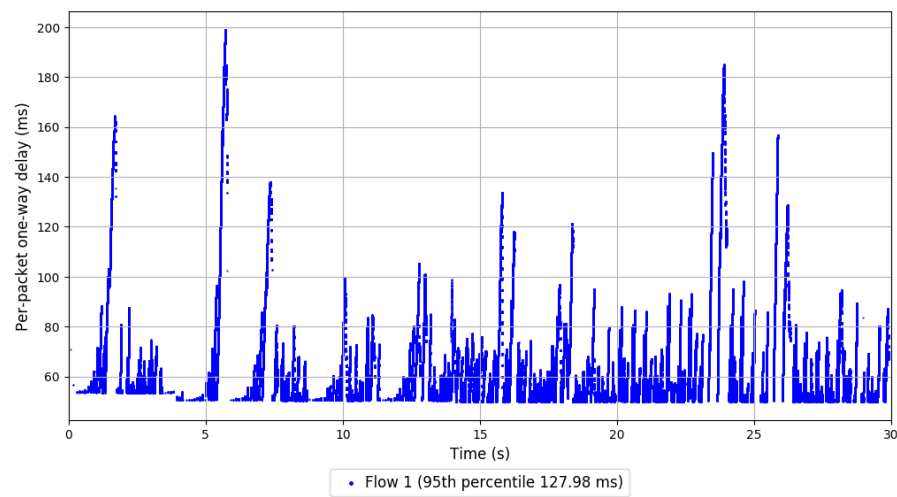
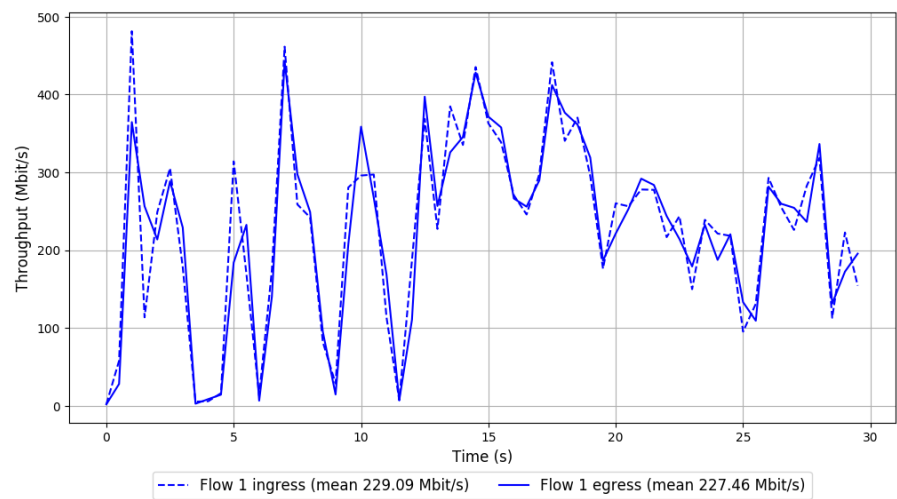
-- Flow 1:

Average throughput: 227.46 Mbit/s

95th percentile per-packet one-way delay: 127.983 ms

Loss rate: 0.77%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2017-12-11 14:24:42

End at: 2017-12-11 14:25:12

Below is generated by plot.py at 2017-12-11 16:47:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 246.31 Mbit/s

95th percentile per-packet one-way delay: 154.849 ms

Loss rate: 0.52%

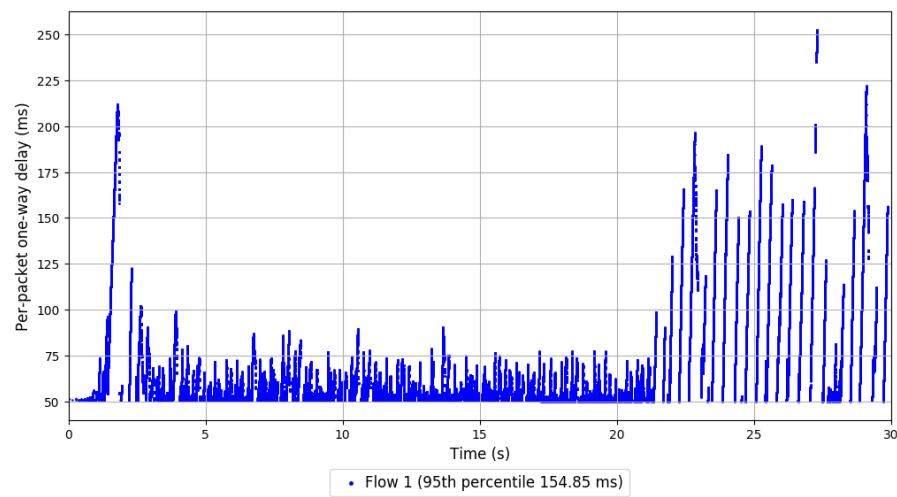
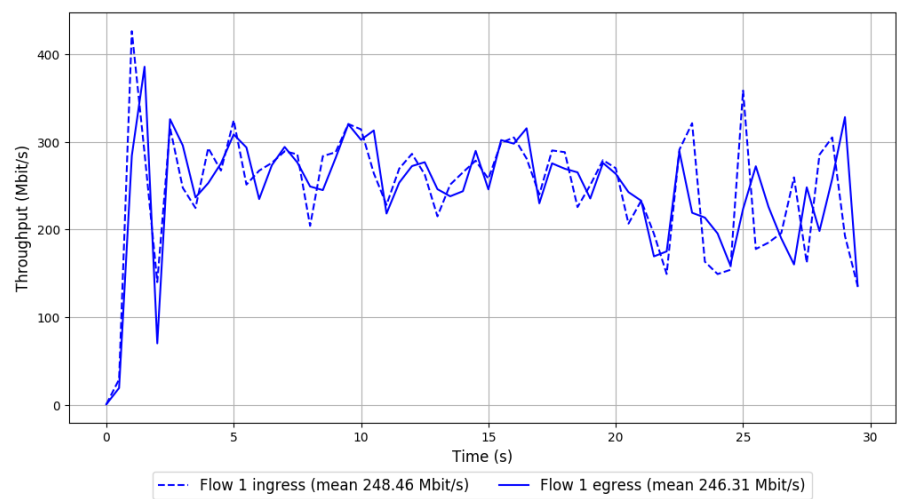
-- Flow 1:

Average throughput: 246.31 Mbit/s

95th percentile per-packet one-way delay: 154.849 ms

Loss rate: 0.52%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2017-12-11 14:34:48

End at: 2017-12-11 14:35:18

Below is generated by plot.py at 2017-12-11 16:47:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 254.88 Mbit/s

95th percentile per-packet one-way delay: 117.517 ms

Loss rate: 1.44%

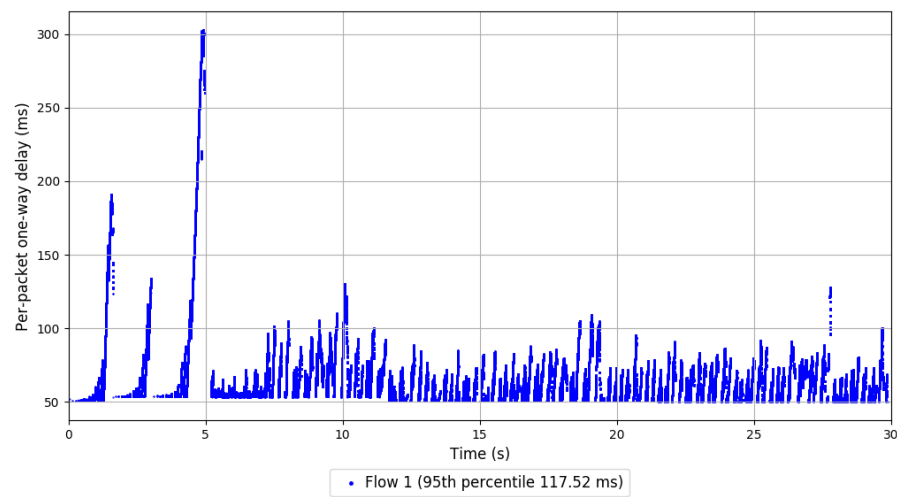
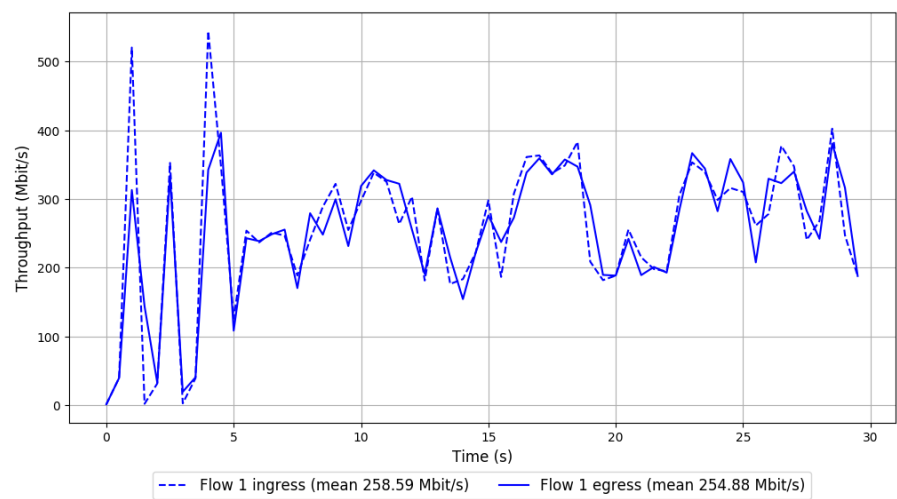
-- Flow 1:

Average throughput: 254.88 Mbit/s

95th percentile per-packet one-way delay: 117.517 ms

Loss rate: 1.44%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2017-12-11 14:45:05

End at: 2017-12-11 14:45:35

Below is generated by plot.py at 2017-12-11 16:47:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 214.87 Mbit/s

95th percentile per-packet one-way delay: 82.570 ms

Loss rate: 1.07%

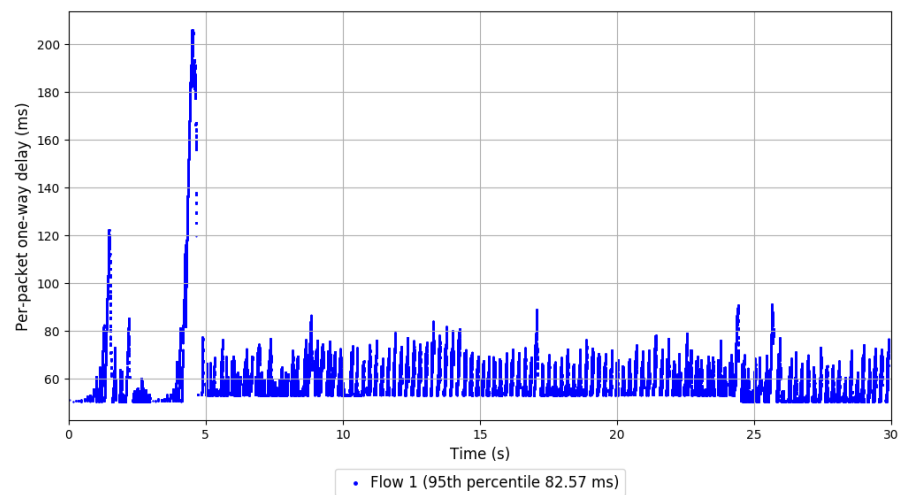
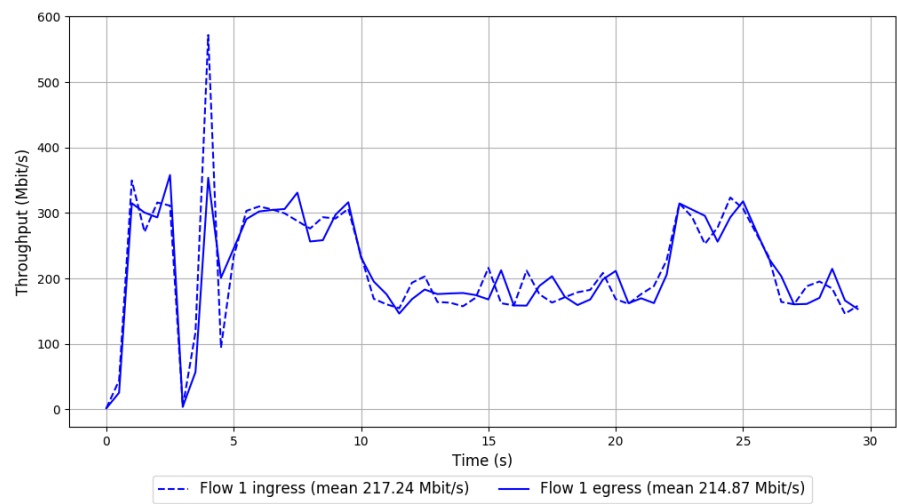
-- Flow 1:

Average throughput: 214.87 Mbit/s

95th percentile per-packet one-way delay: 82.570 ms

Loss rate: 1.07%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2017-12-11 14:55:24

End at: 2017-12-11 14:55:54

Below is generated by plot.py at 2017-12-11 16:47:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 191.28 Mbit/s

95th percentile per-packet one-way delay: 145.214 ms

Loss rate: 1.71%

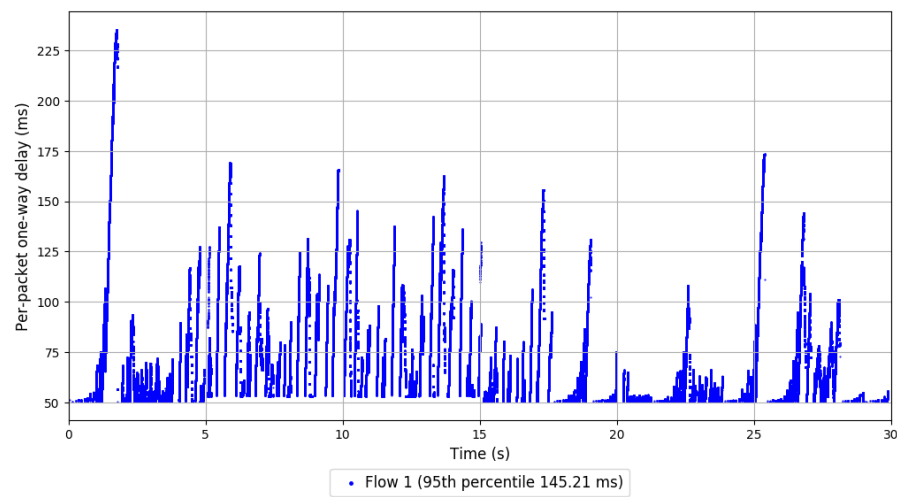
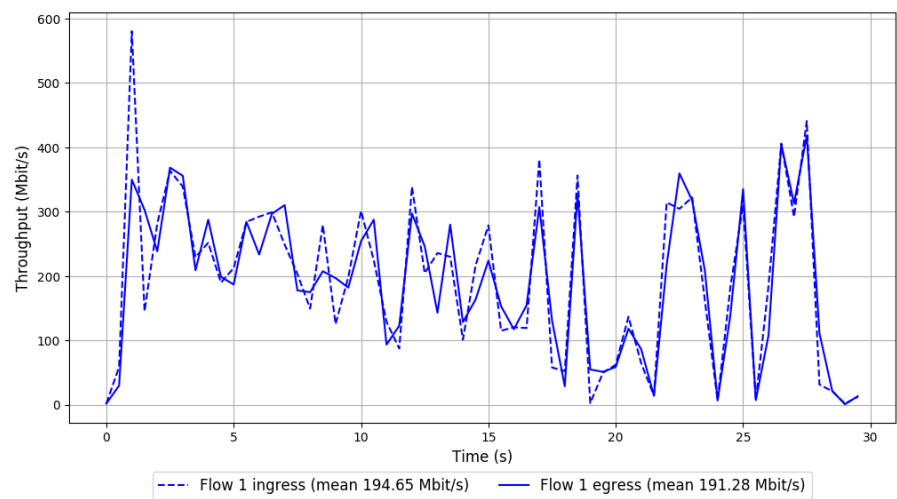
-- Flow 1:

Average throughput: 191.28 Mbit/s

95th percentile per-packet one-way delay: 145.214 ms

Loss rate: 1.71%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2017-12-11 15:05:25

End at: 2017-12-11 15:05:55

Below is generated by plot.py at 2017-12-11 16:50:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 242.49 Mbit/s

95th percentile per-packet one-way delay: 132.994 ms

Loss rate: 0.94%

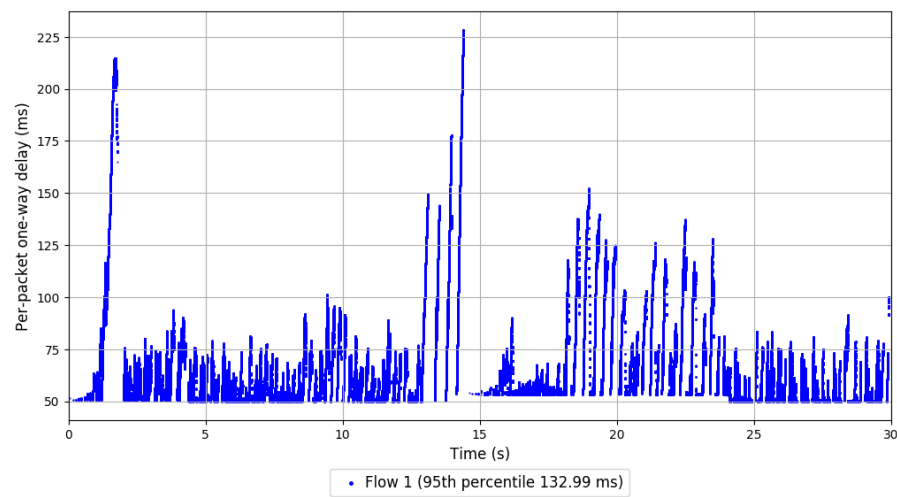
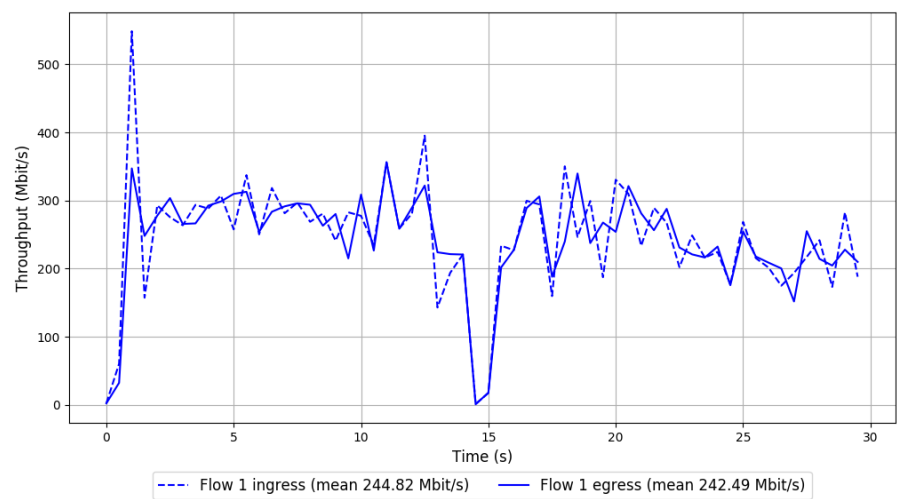
-- Flow 1:

Average throughput: 242.49 Mbit/s

95th percentile per-packet one-way delay: 132.994 ms

Loss rate: 0.94%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2017-12-11 15:15:53

End at: 2017-12-11 15:16:23

Below is generated by plot.py at 2017-12-11 16:50:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 228.08 Mbit/s

95th percentile per-packet one-way delay: 100.724 ms

Loss rate: 2.13%

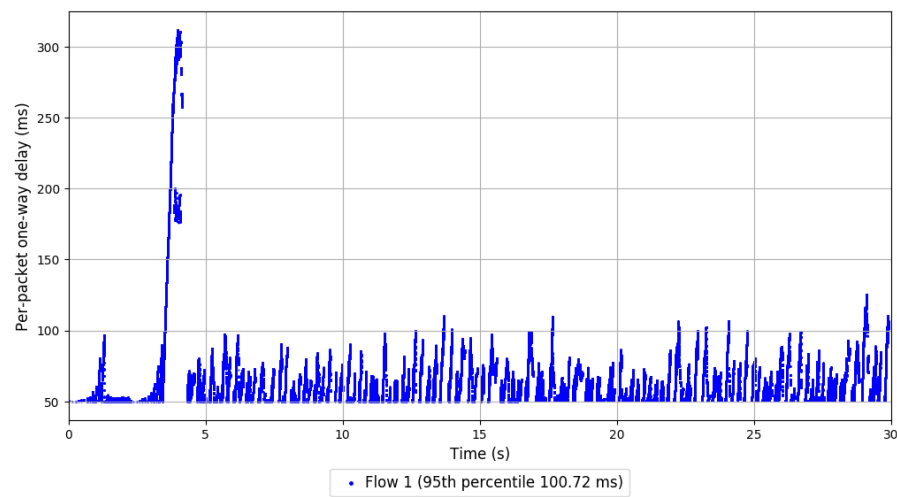
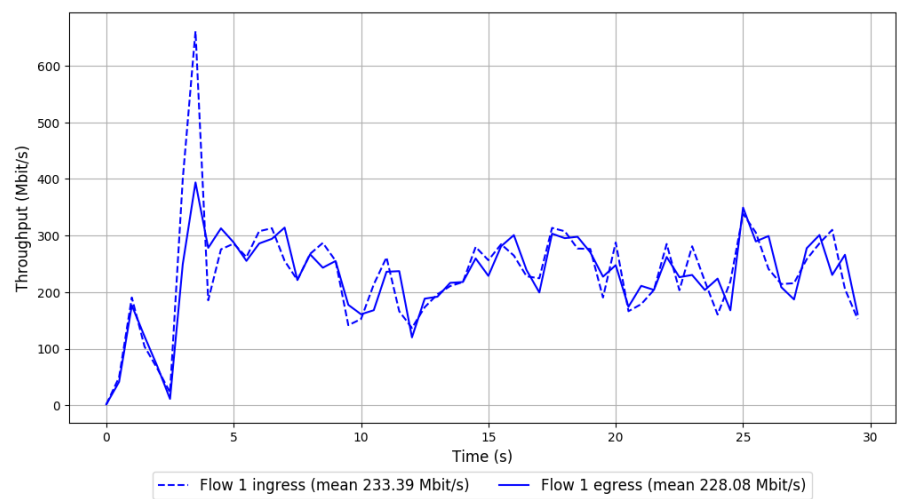
-- Flow 1:

Average throughput: 228.08 Mbit/s

95th percentile per-packet one-way delay: 100.724 ms

Loss rate: 2.13%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2017-12-11 15:26:16

End at: 2017-12-11 15:26:46

Below is generated by plot.py at 2017-12-11 16:50:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 228.70 Mbit/s

95th percentile per-packet one-way delay: 100.796 ms

Loss rate: 0.90%

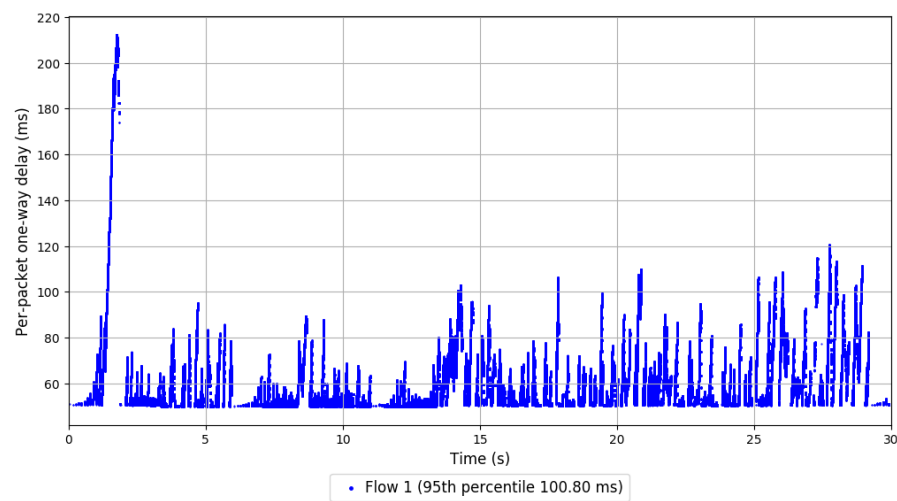
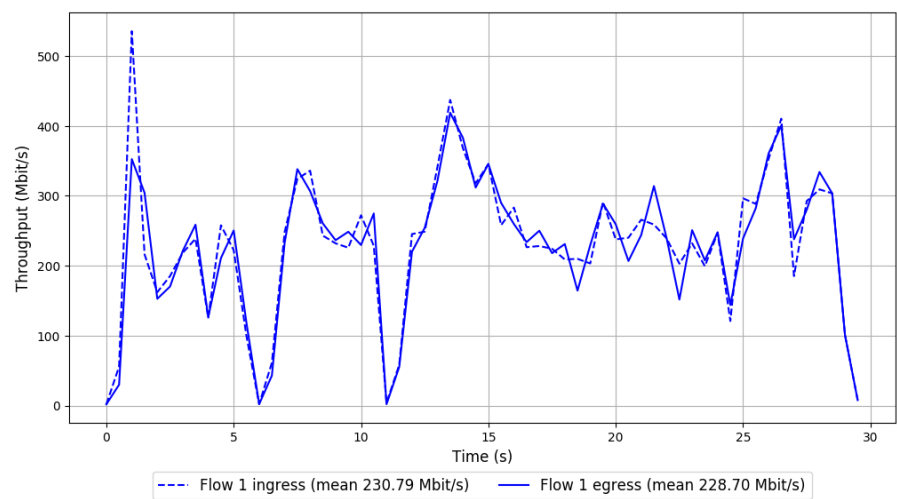
-- Flow 1:

Average throughput: 228.70 Mbit/s

95th percentile per-packet one-way delay: 100.796 ms

Loss rate: 0.90%

Run 10: Report of Verus — Data Link

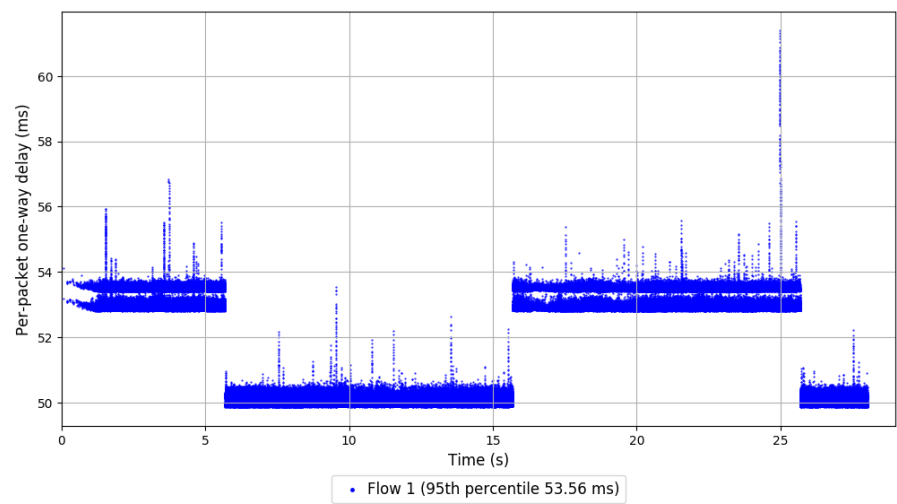
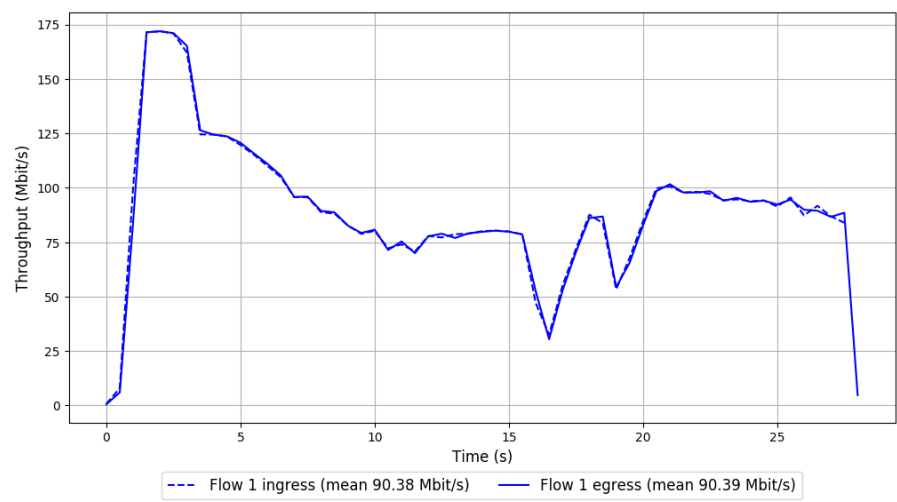


```
Run 1: Statistics of Copa

Start at: 2017-12-11 13:54:42
End at: 2017-12-11 13:55:12

# Below is generated by plot.py at 2017-12-11 16:50:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.39 Mbit/s
95th percentile per-packet one-way delay: 53.564 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 90.39 Mbit/s
95th percentile per-packet one-way delay: 53.564 ms
Loss rate: 0.00%
```

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2017-12-11 14:05:07

End at: 2017-12-11 14:05:37

Below is generated by plot.py at 2017-12-11 16:50:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.58 Mbit/s

95th percentile per-packet one-way delay: 53.594 ms

Loss rate: 0.00%

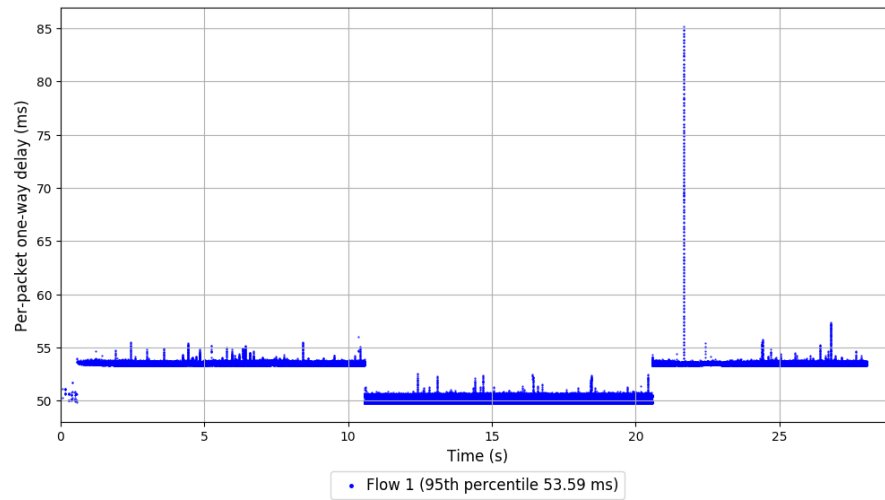
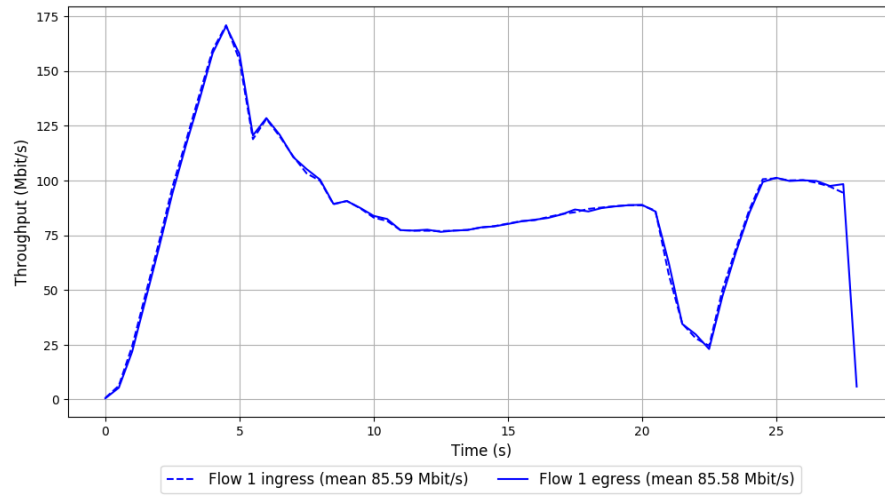
-- Flow 1:

Average throughput: 85.58 Mbit/s

95th percentile per-packet one-way delay: 53.594 ms

Loss rate: 0.00%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2017-12-11 14:15:28

End at: 2017-12-11 14:15:58

Below is generated by plot.py at 2017-12-11 16:50:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.18 Mbit/s

95th percentile per-packet one-way delay: 50.414 ms

Loss rate: 0.00%

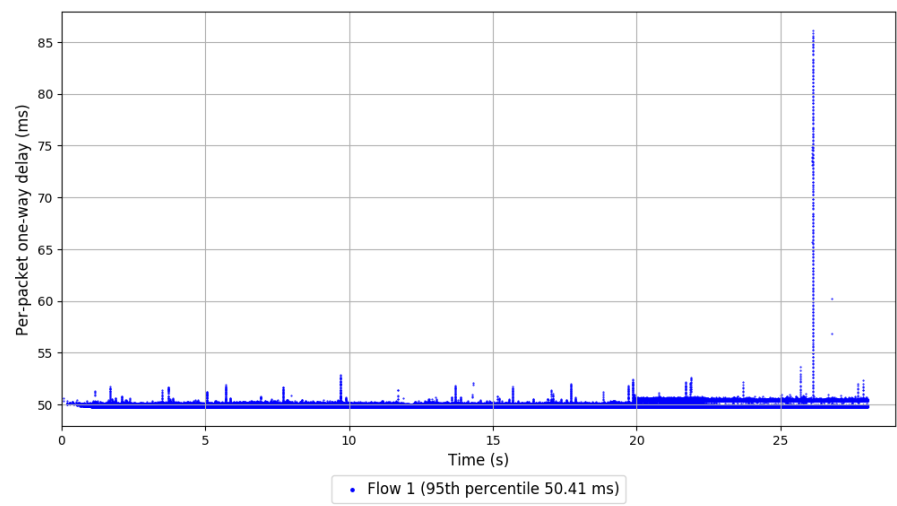
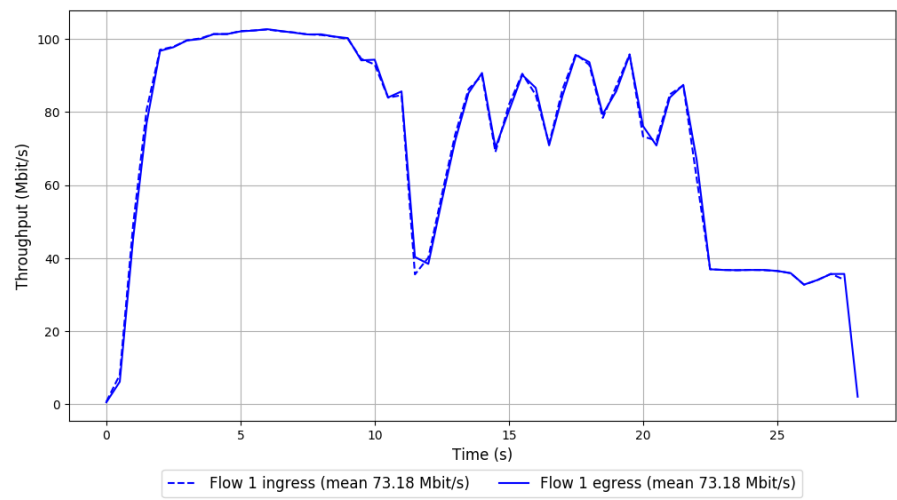
-- Flow 1:

Average throughput: 73.18 Mbit/s

95th percentile per-packet one-way delay: 50.414 ms

Loss rate: 0.00%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2017-12-11 14:25:35

End at: 2017-12-11 14:26:05

Below is generated by plot.py at 2017-12-11 16:50:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.95 Mbit/s

95th percentile per-packet one-way delay: 53.247 ms

Loss rate: 0.00%

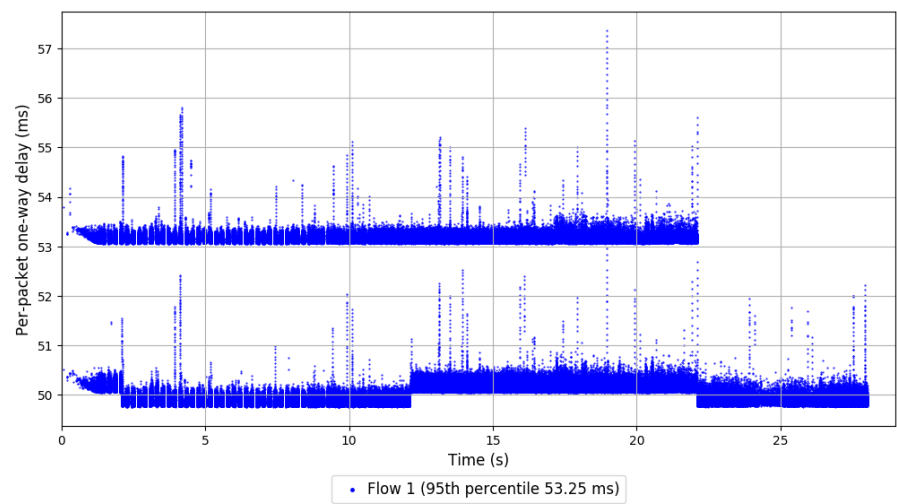
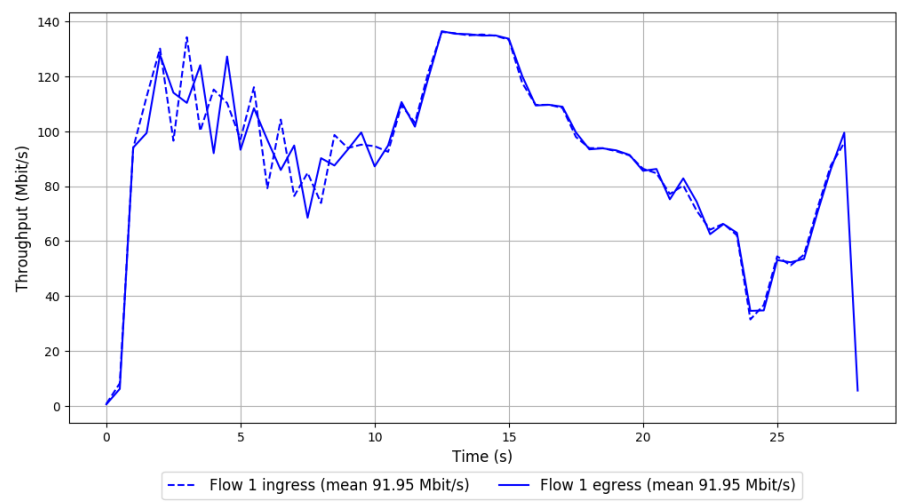
-- Flow 1:

Average throughput: 91.95 Mbit/s

95th percentile per-packet one-way delay: 53.247 ms

Loss rate: 0.00%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2017-12-11 14:35:42

End at: 2017-12-11 14:36:12

Below is generated by plot.py at 2017-12-11 16:50:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.74 Mbit/s

95th percentile per-packet one-way delay: 53.279 ms

Loss rate: 0.00%

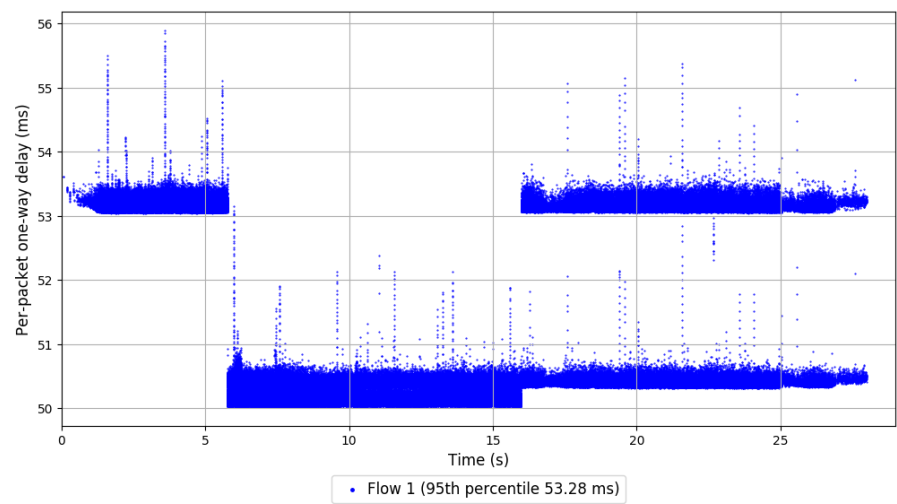
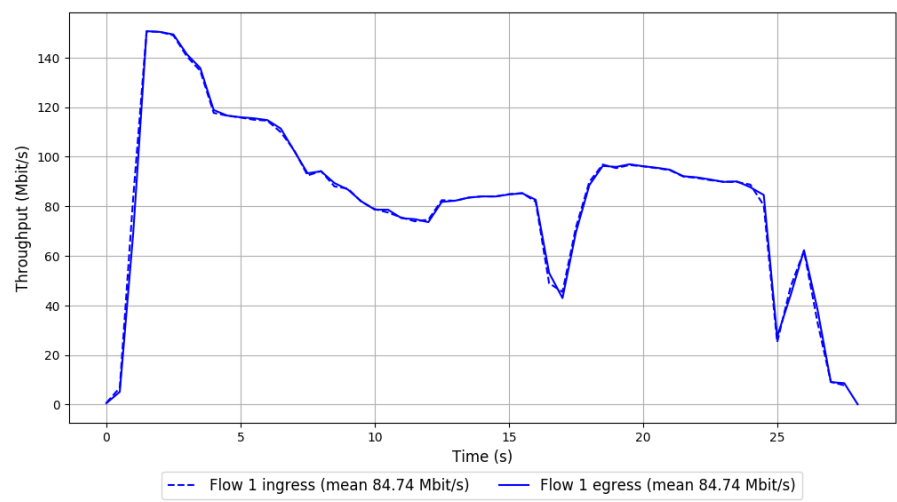
-- Flow 1:

Average throughput: 84.74 Mbit/s

95th percentile per-packet one-way delay: 53.279 ms

Loss rate: 0.00%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2017-12-11 14:45:56

End at: 2017-12-11 14:46:26

Below is generated by plot.py at 2017-12-11 16:52:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.21 Mbit/s

95th percentile per-packet one-way delay: 53.578 ms

Loss rate: 0.00%

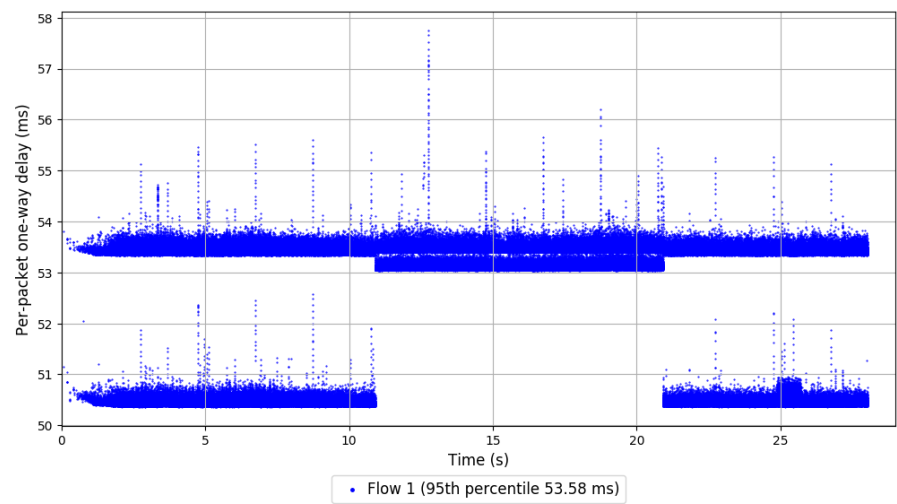
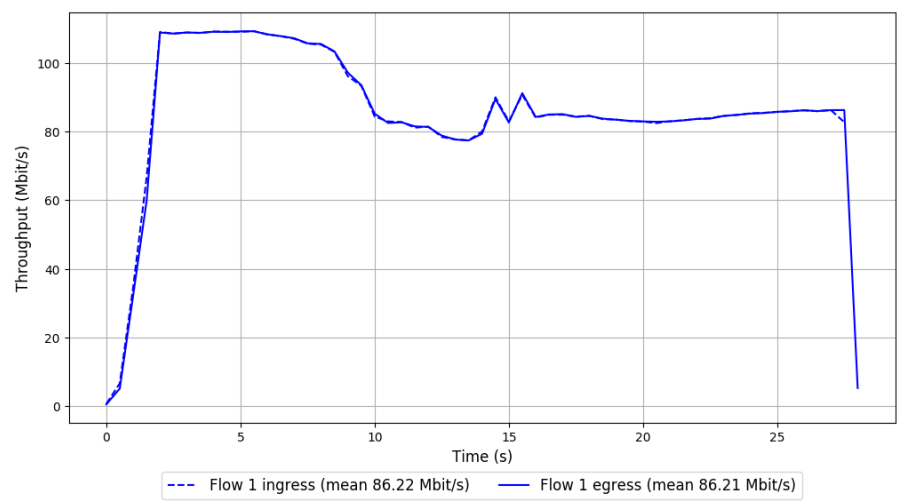
-- Flow 1:

Average throughput: 86.21 Mbit/s

95th percentile per-packet one-way delay: 53.578 ms

Loss rate: 0.00%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2017-12-11 14:56:14

End at: 2017-12-11 14:56:44

Below is generated by plot.py at 2017-12-11 16:52:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.91 Mbit/s

95th percentile per-packet one-way delay: 53.620 ms

Loss rate: 0.00%

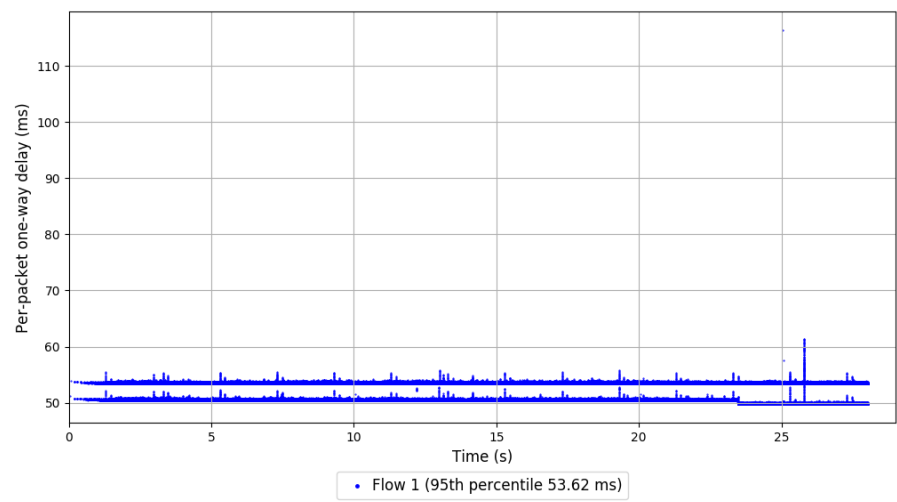
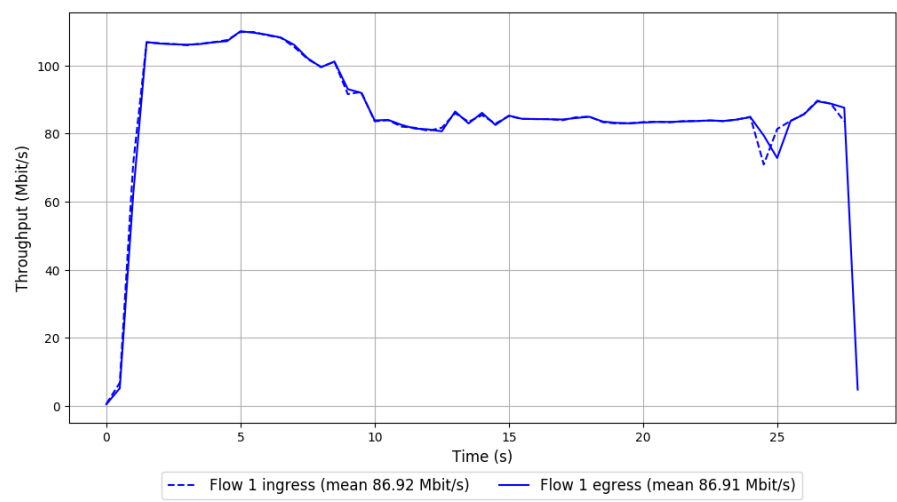
-- Flow 1:

Average throughput: 86.91 Mbit/s

95th percentile per-packet one-way delay: 53.620 ms

Loss rate: 0.00%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2017-12-11 15:06:18

End at: 2017-12-11 15:06:48

Below is generated by plot.py at 2017-12-11 16:52:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.27 Mbit/s

95th percentile per-packet one-way delay: 53.500 ms

Loss rate: 0.00%

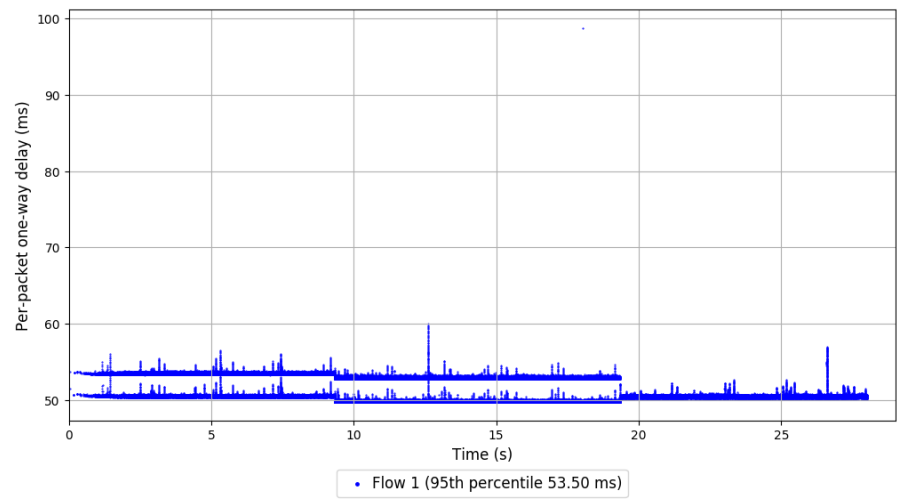
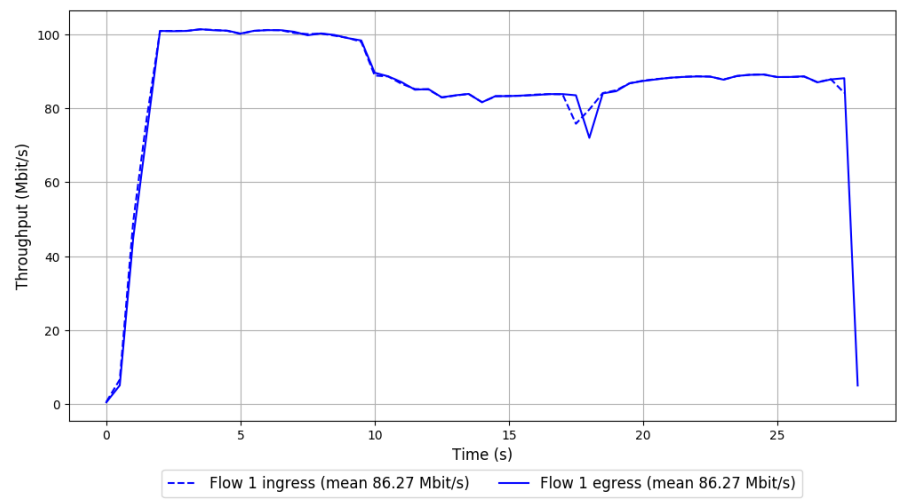
-- Flow 1:

Average throughput: 86.27 Mbit/s

95th percentile per-packet one-way delay: 53.500 ms

Loss rate: 0.00%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2017-12-11 15:16:45

End at: 2017-12-11 15:17:15

Below is generated by plot.py at 2017-12-11 16:52:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.16 Mbit/s

95th percentile per-packet one-way delay: 53.247 ms

Loss rate: 0.01%

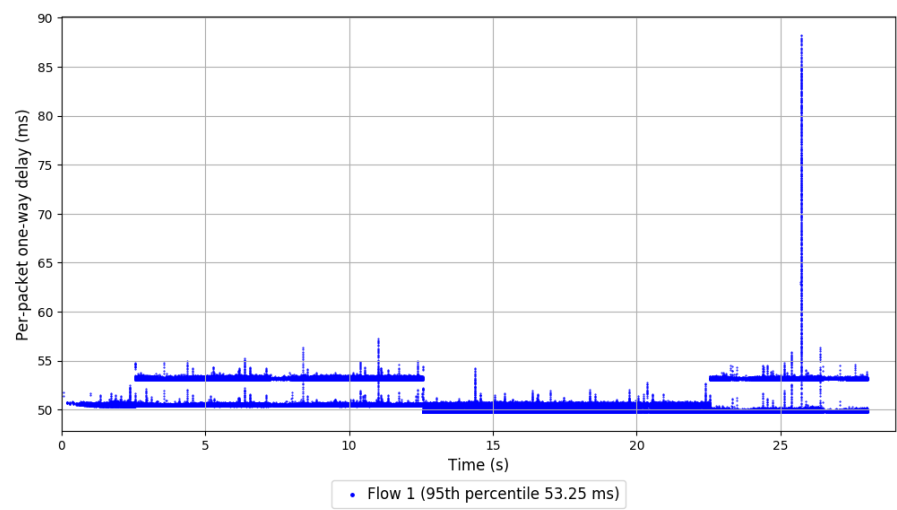
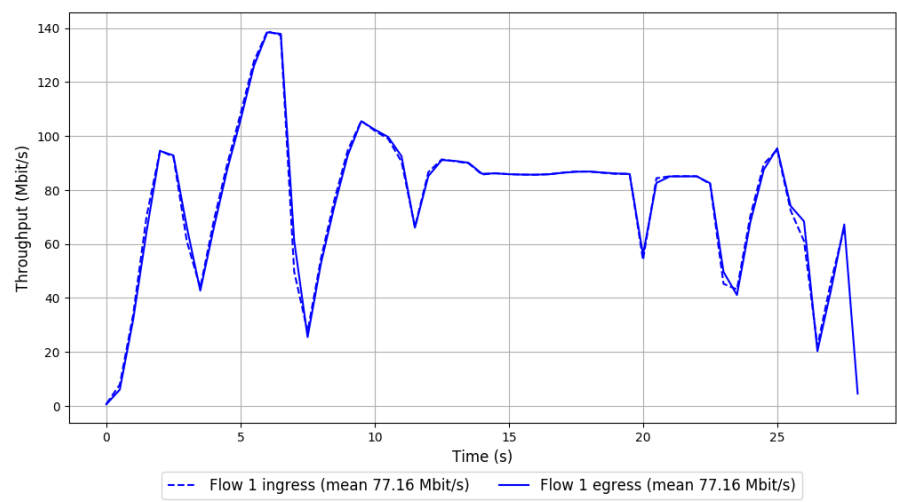
-- Flow 1:

Average throughput: 77.16 Mbit/s

95th percentile per-packet one-way delay: 53.247 ms

Loss rate: 0.01%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2017-12-11 15:27:08

End at: 2017-12-11 15:27:38

Below is generated by plot.py at 2017-12-11 16:53:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.69 Mbit/s

95th percentile per-packet one-way delay: 53.541 ms

Loss rate: 0.00%

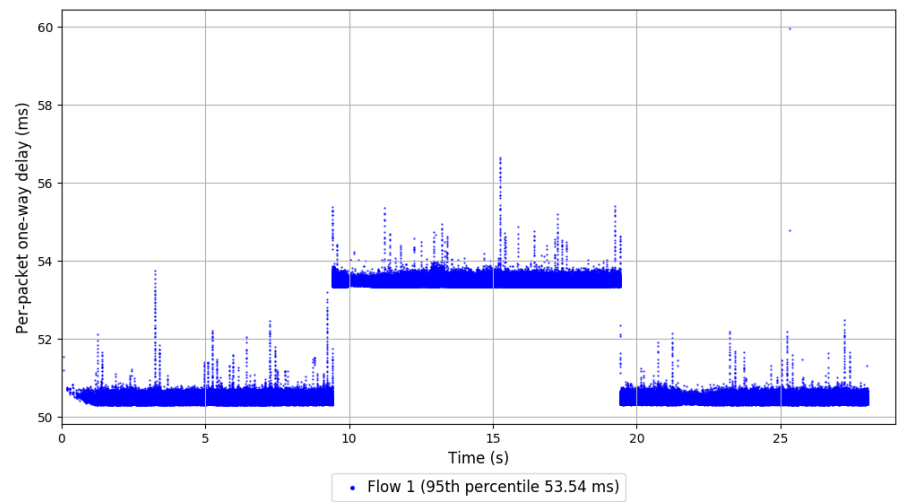
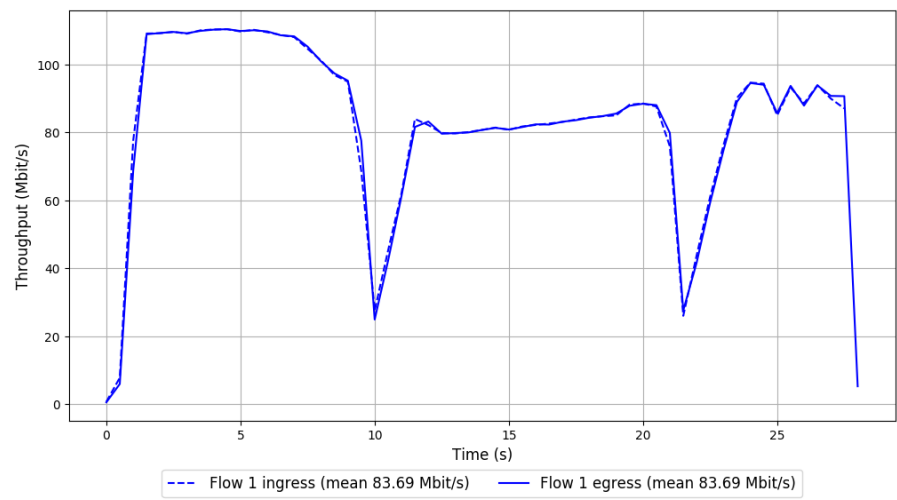
-- Flow 1:

Average throughput: 83.69 Mbit/s

95th percentile per-packet one-way delay: 53.541 ms

Loss rate: 0.00%

Run 10: Report of Copa — Data Link

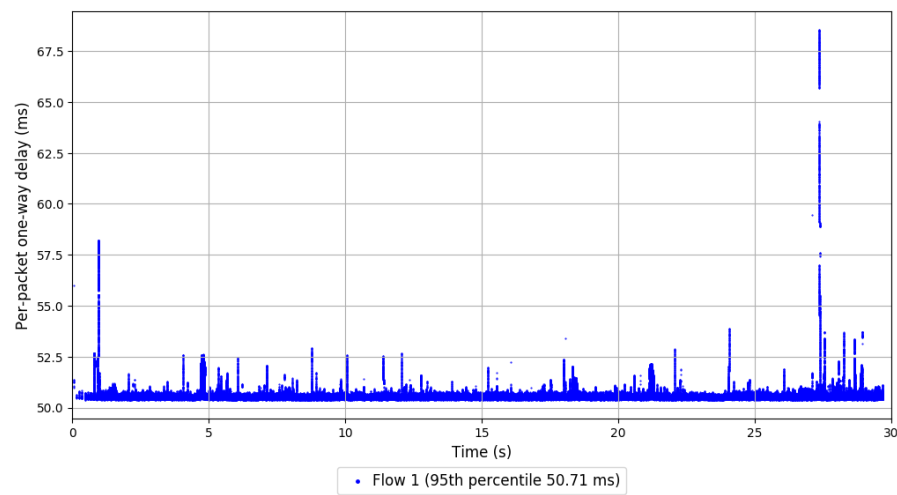
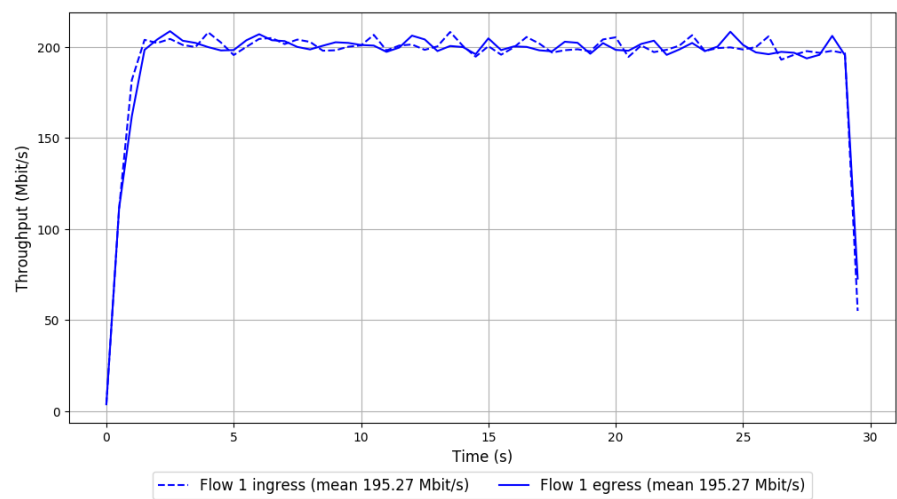


```
Run 1: Statistics of Indigo

Start at: 2017-12-11 13:57:25
End at: 2017-12-11 13:57:55

# Below is generated by plot.py at 2017-12-11 16:53:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 195.27 Mbit/s
95th percentile per-packet one-way delay: 50.706 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 195.27 Mbit/s
95th percentile per-packet one-way delay: 50.706 ms
Loss rate: 0.00%
```


Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2017-12-11 14:07:51

End at: 2017-12-11 14:08:21

Below is generated by plot.py at 2017-12-11 16:53:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 193.14 Mbit/s

95th percentile per-packet one-way delay: 50.507 ms

Loss rate: 0.10%

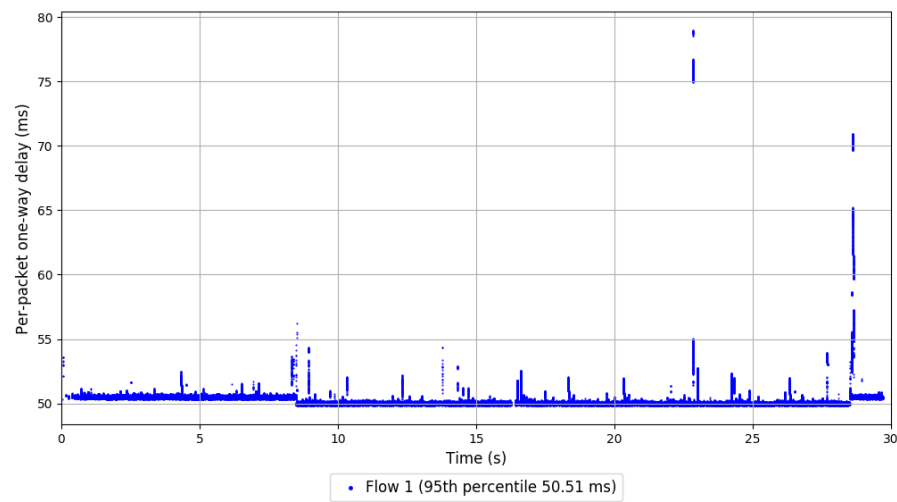
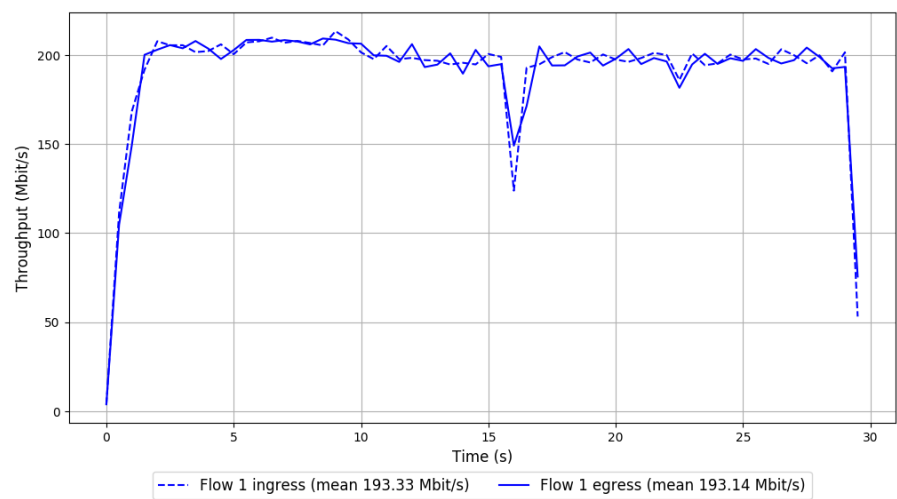
-- Flow 1:

Average throughput: 193.14 Mbit/s

95th percentile per-packet one-way delay: 50.507 ms

Loss rate: 0.10%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2017-12-11 14:18:09

End at: 2017-12-11 14:18:39

Below is generated by plot.py at 2017-12-11 16:53:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 175.02 Mbit/s

95th percentile per-packet one-way delay: 53.587 ms

Loss rate: 0.02%

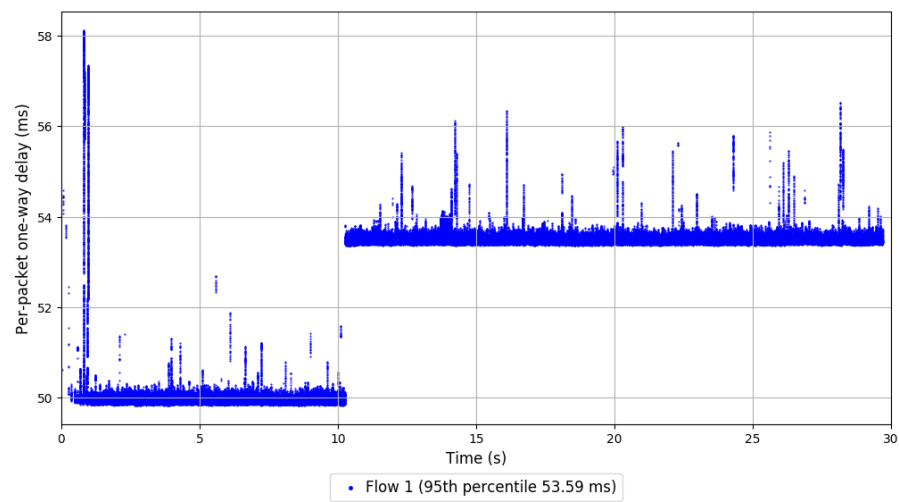
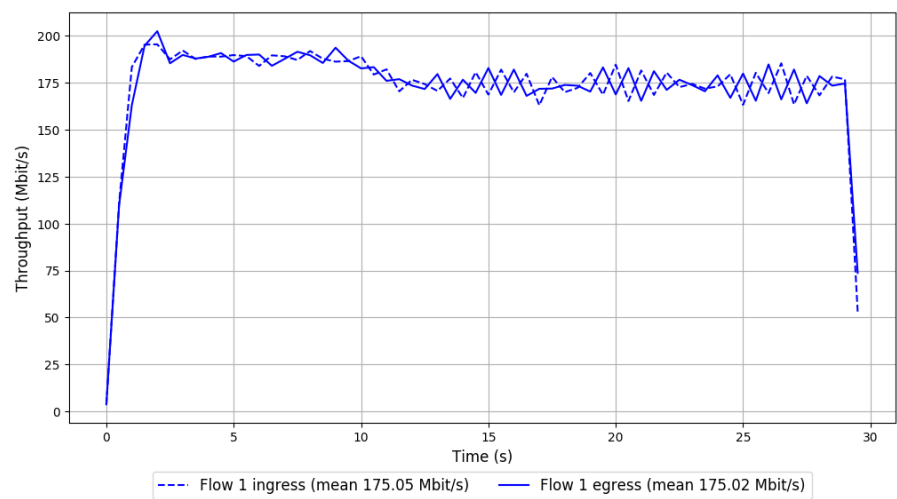
-- Flow 1:

Average throughput: 175.02 Mbit/s

95th percentile per-packet one-way delay: 53.587 ms

Loss rate: 0.02%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2017-12-11 14:28:18

End at: 2017-12-11 14:28:48

Below is generated by plot.py at 2017-12-11 16:55:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 188.49 Mbit/s

95th percentile per-packet one-way delay: 53.271 ms

Loss rate: 0.01%

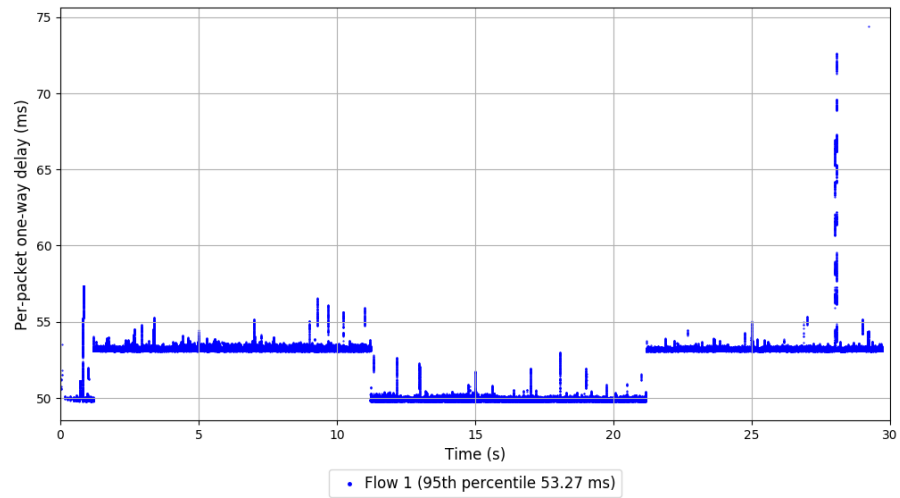
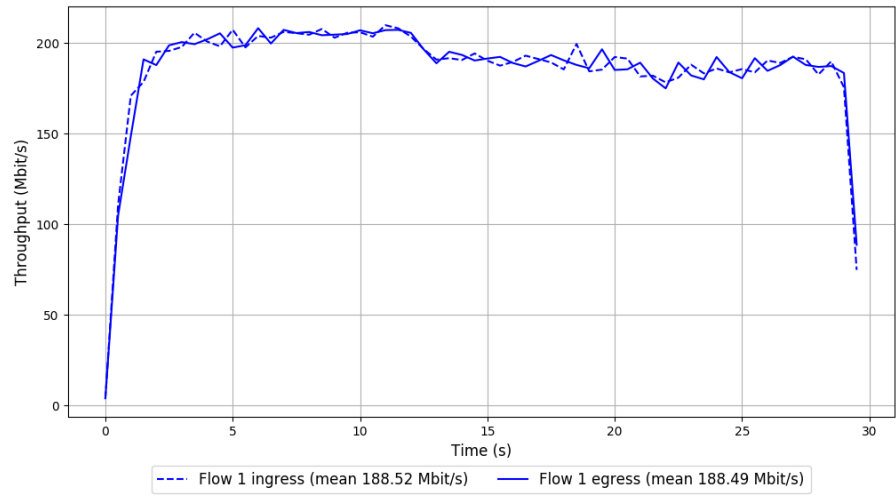
-- Flow 1:

Average throughput: 188.49 Mbit/s

95th percentile per-packet one-way delay: 53.271 ms

Loss rate: 0.01%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2017-12-11 14:38:36

End at: 2017-12-11 14:39:06

Below is generated by plot.py at 2017-12-11 16:55:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 193.06 Mbit/s

95th percentile per-packet one-way delay: 53.250 ms

Loss rate: 0.00%

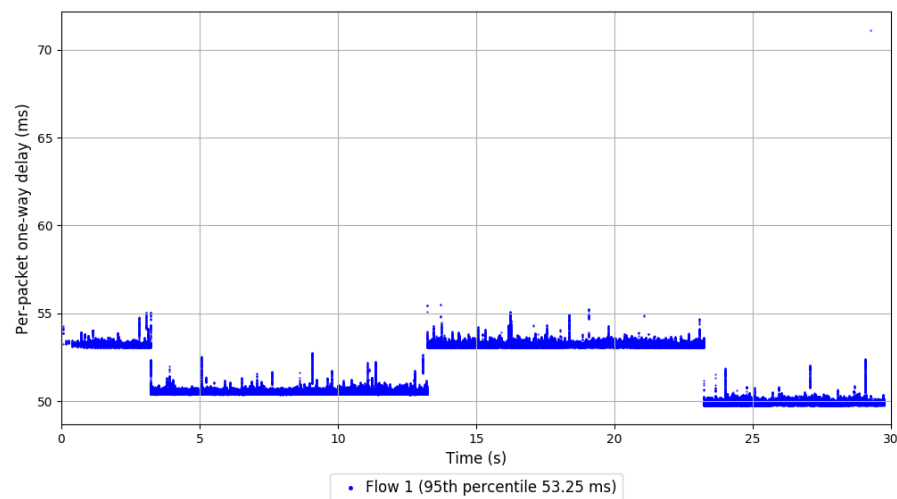
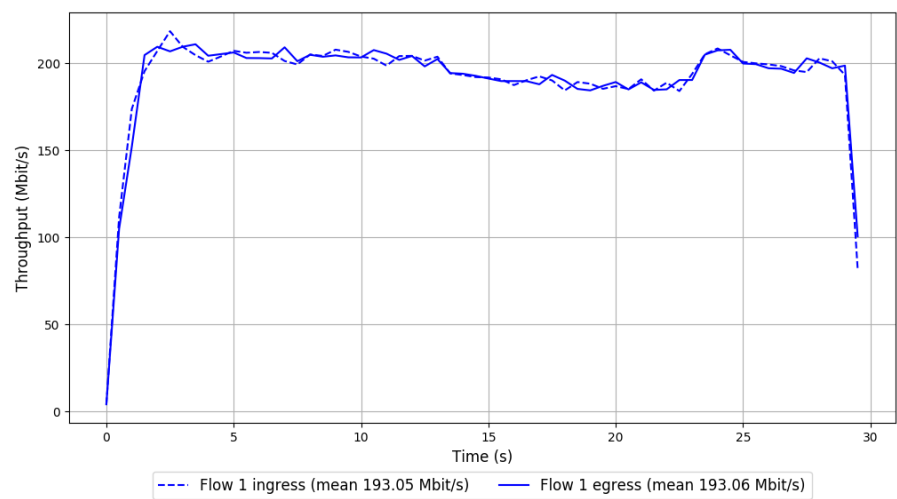
-- Flow 1:

Average throughput: 193.06 Mbit/s

95th percentile per-packet one-way delay: 53.250 ms

Loss rate: 0.00%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2017-12-11 14:48:40

End at: 2017-12-11 14:49:10

Below is generated by plot.py at 2017-12-11 16:55:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 192.29 Mbit/s

95th percentile per-packet one-way delay: 50.711 ms

Loss rate: 0.01%

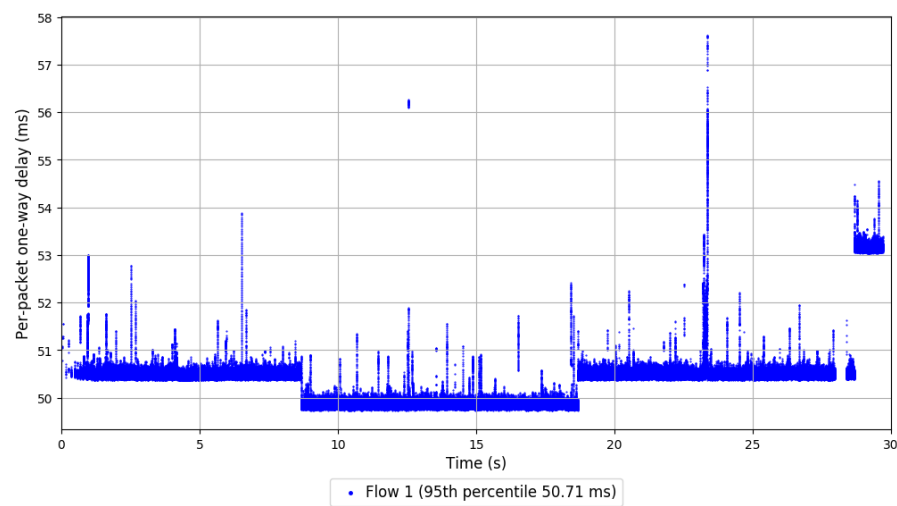
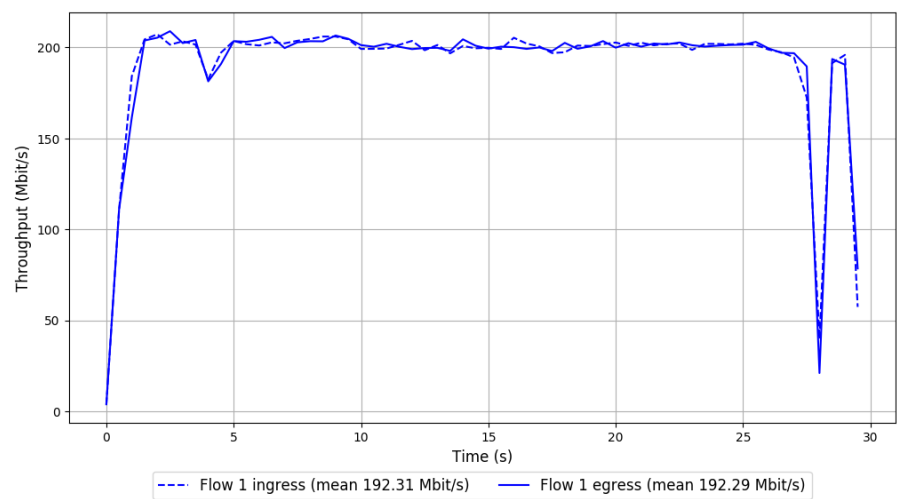
-- Flow 1:

Average throughput: 192.29 Mbit/s

95th percentile per-packet one-way delay: 50.711 ms

Loss rate: 0.01%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2017-12-11 14:58:57

End at: 2017-12-11 14:59:27

Below is generated by plot.py at 2017-12-11 16:55:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 191.70 Mbit/s

95th percentile per-packet one-way delay: 53.249 ms

Loss rate: 0.00%

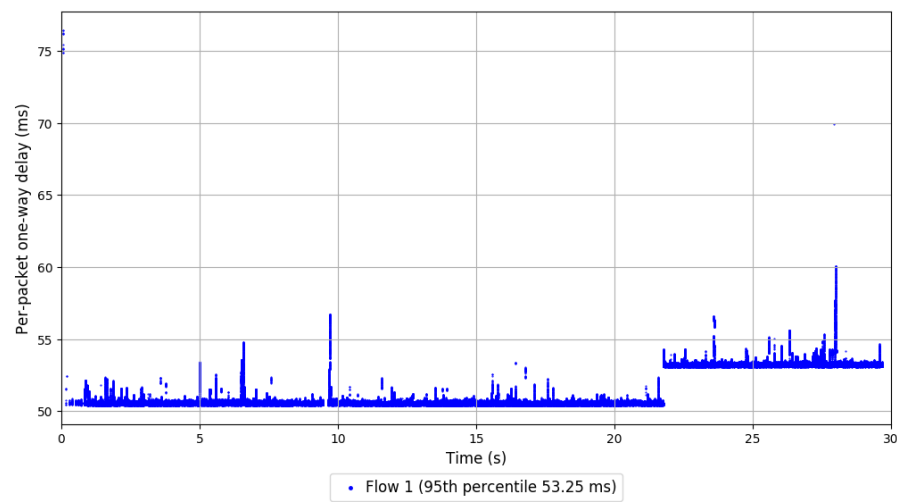
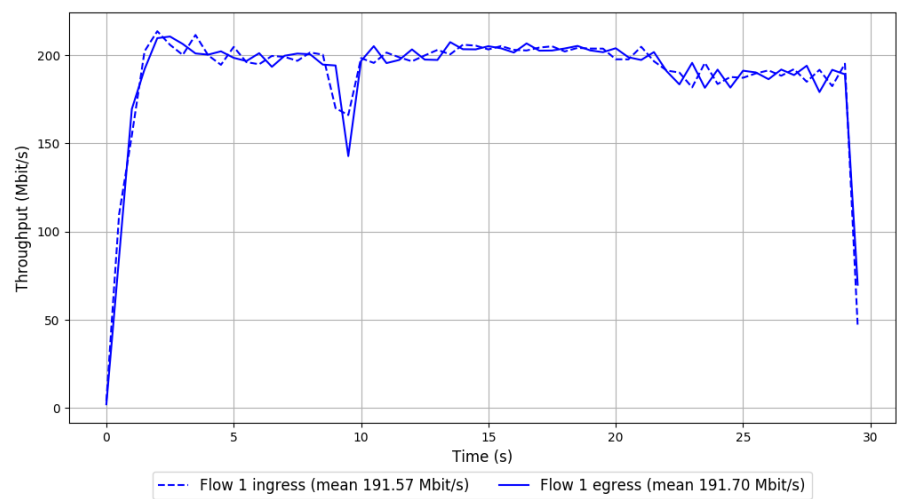
-- Flow 1:

Average throughput: 191.70 Mbit/s

95th percentile per-packet one-way delay: 53.249 ms

Loss rate: 0.00%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2017-12-11 15:09:01

End at: 2017-12-11 15:09:31

Below is generated by plot.py at 2017-12-11 16:56:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 194.38 Mbit/s

95th percentile per-packet one-way delay: 53.136 ms

Loss rate: 0.01%

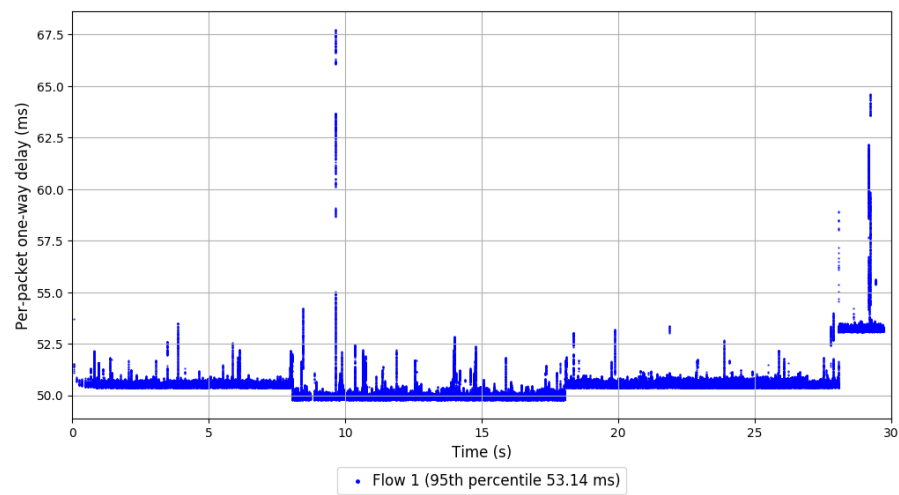
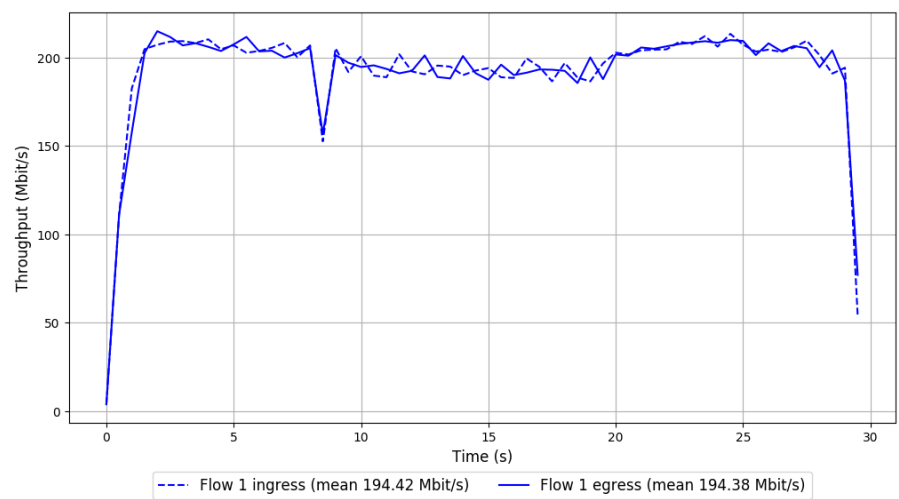
-- Flow 1:

Average throughput: 194.38 Mbit/s

95th percentile per-packet one-way delay: 53.136 ms

Loss rate: 0.01%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2017-12-11 15:19:27

End at: 2017-12-11 15:19:57

Below is generated by plot.py at 2017-12-11 16:56:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 193.79 Mbit/s

95th percentile per-packet one-way delay: 53.250 ms

Loss rate: 0.00%

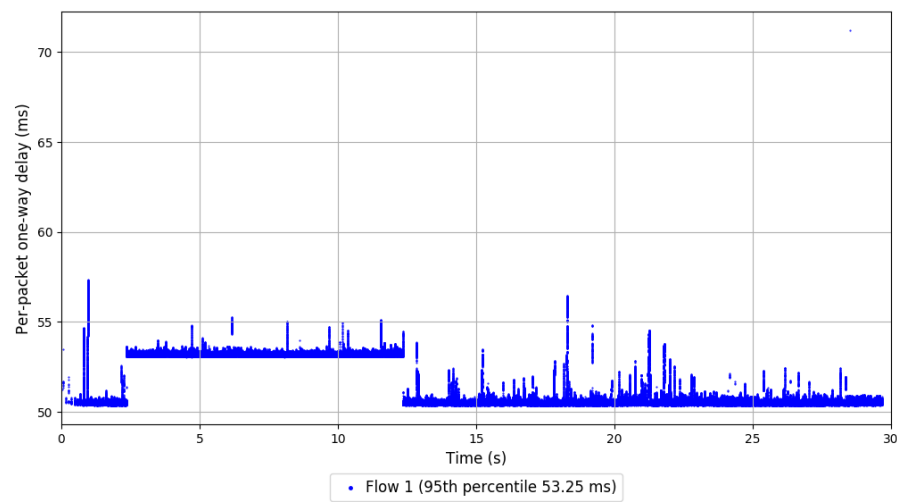
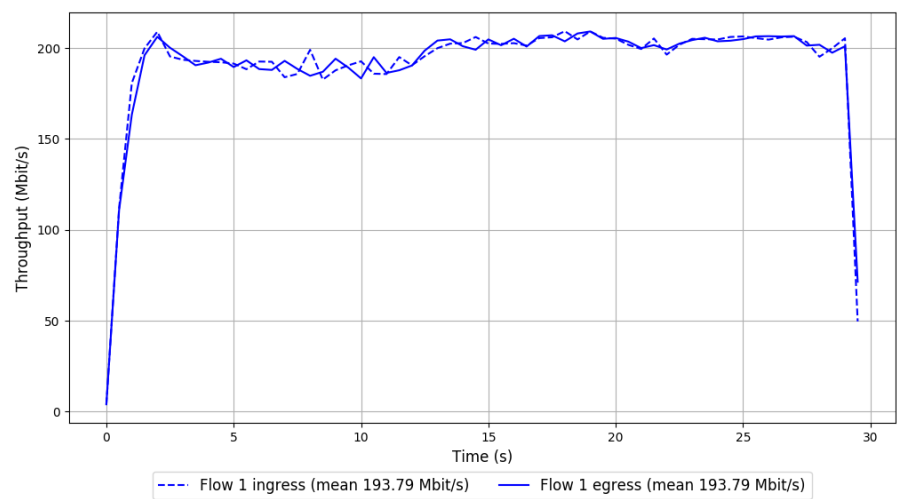
-- Flow 1:

Average throughput: 193.79 Mbit/s

95th percentile per-packet one-way delay: 53.250 ms

Loss rate: 0.00%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2017-12-11 15:29:51

End at: 2017-12-11 15:30:21

Below is generated by plot.py at 2017-12-11 16:57:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 195.55 Mbit/s

95th percentile per-packet one-way delay: 50.643 ms

Loss rate: 0.01%

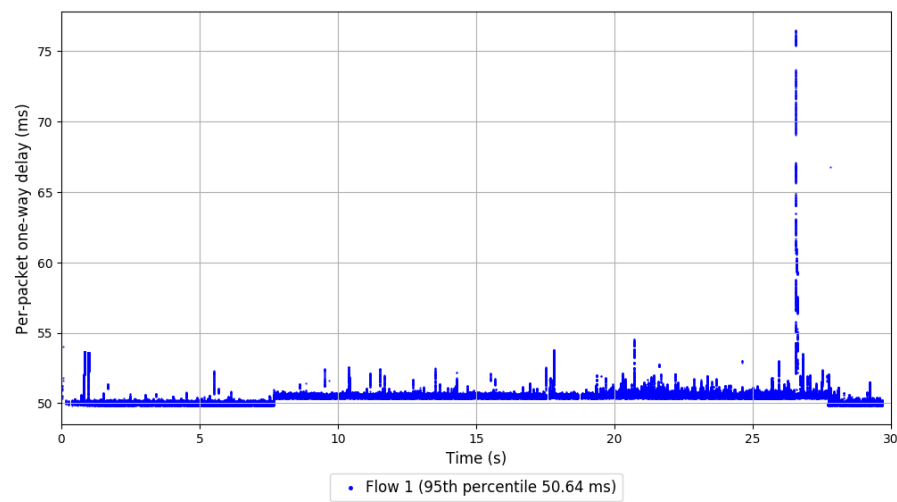
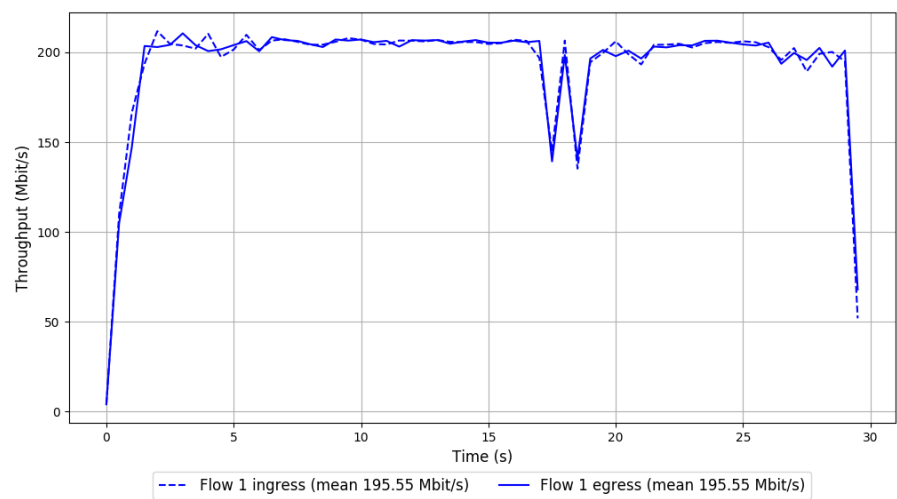
-- Flow 1:

Average throughput: 195.55 Mbit/s

95th percentile per-packet one-way delay: 50.643 ms

Loss rate: 0.01%

Run 10: Report of Indigo — Data Link

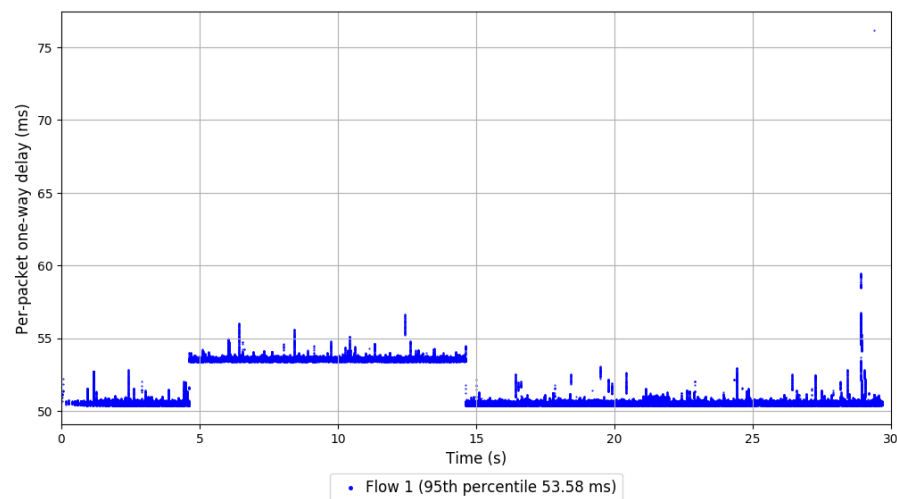
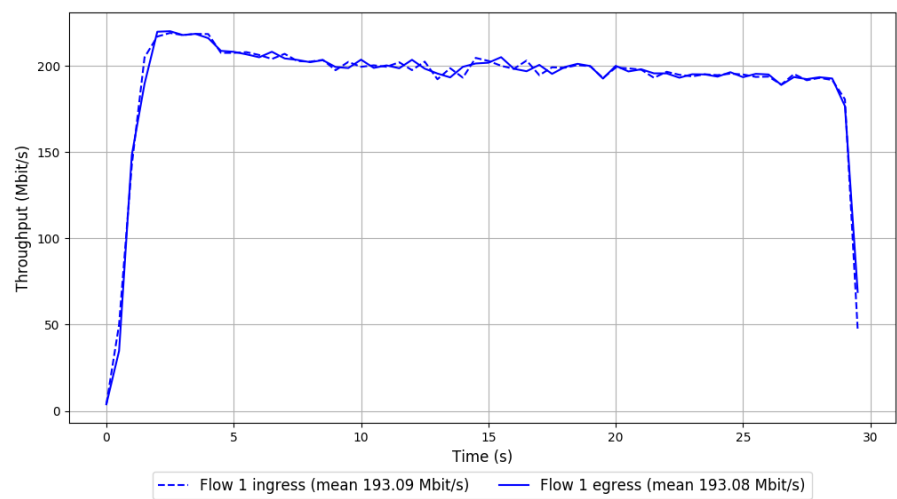


```
Run 1: Statistics of Indigo-calib

Start at: 2017-12-11 13:58:14
End at: 2017-12-11 13:58:44

# Below is generated by plot.py at 2017-12-11 16:57:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 193.08 Mbit/s
95th percentile per-packet one-way delay: 53.576 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 193.08 Mbit/s
95th percentile per-packet one-way delay: 53.576 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo-calib — Data Link

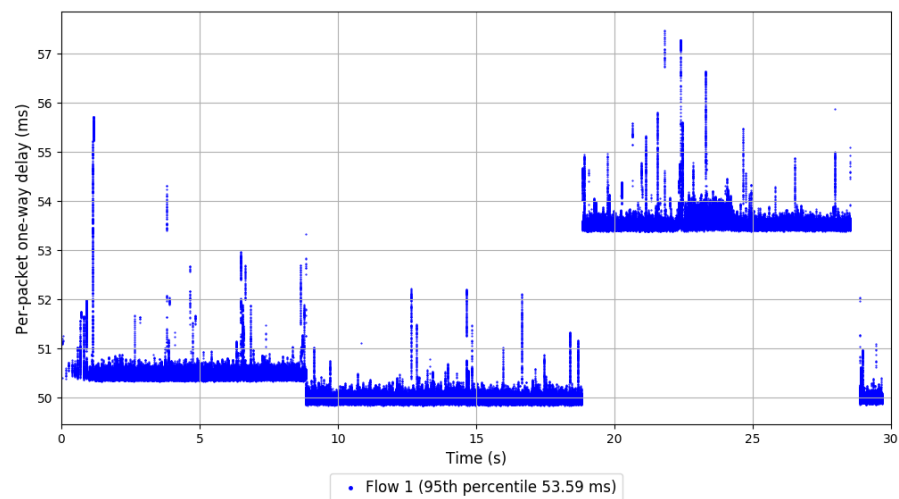
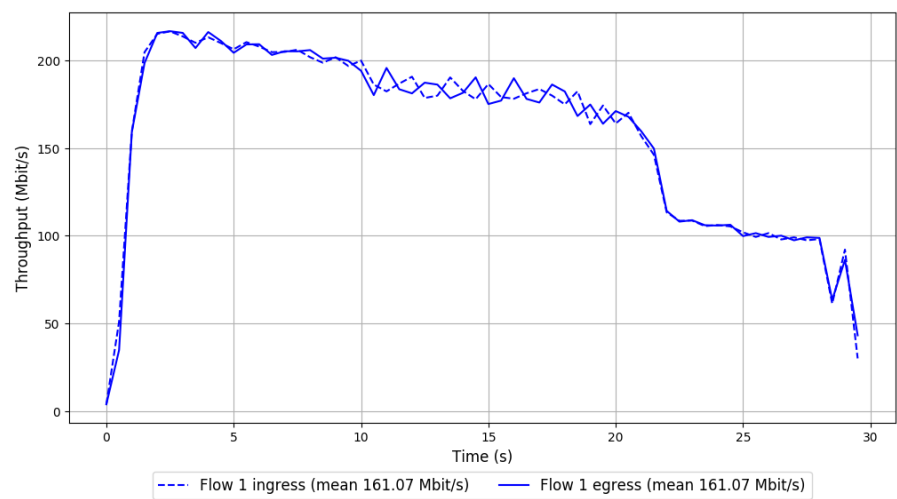


```
Run 2: Statistics of Indigo-calib

Start at: 2017-12-11 14:08:40
End at: 2017-12-11 14:09:10

# Below is generated by plot.py at 2017-12-11 16:58:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 161.07 Mbit/s
95th percentile per-packet one-way delay: 53.595 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 161.07 Mbit/s
95th percentile per-packet one-way delay: 53.595 ms
Loss rate: 0.00%
```

Run 2: Report of Indigo-calib — Data Link



Run 3: Statistics of Indigo-calib

Start at: 2017-12-11 14:18:57

End at: 2017-12-11 14:19:27

Below is generated by plot.py at 2017-12-11 16:58:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 181.90 Mbit/s

95th percentile per-packet one-way delay: 53.610 ms

Loss rate: 0.00%

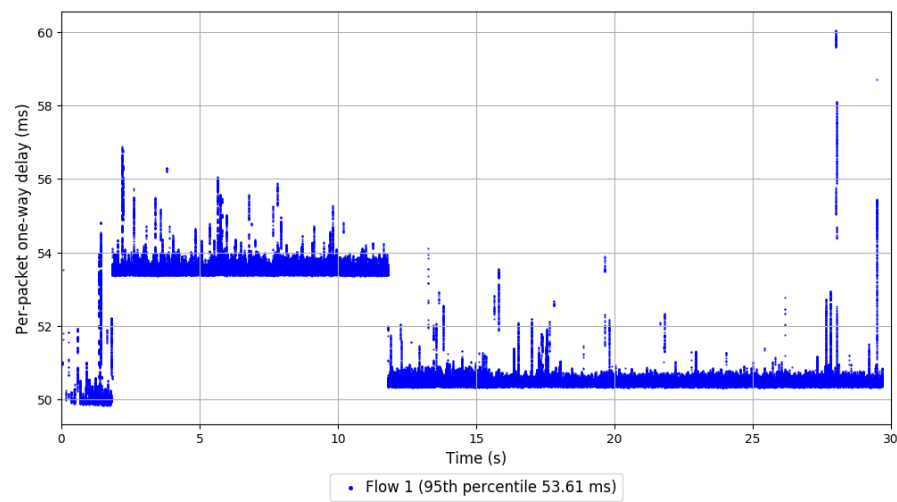
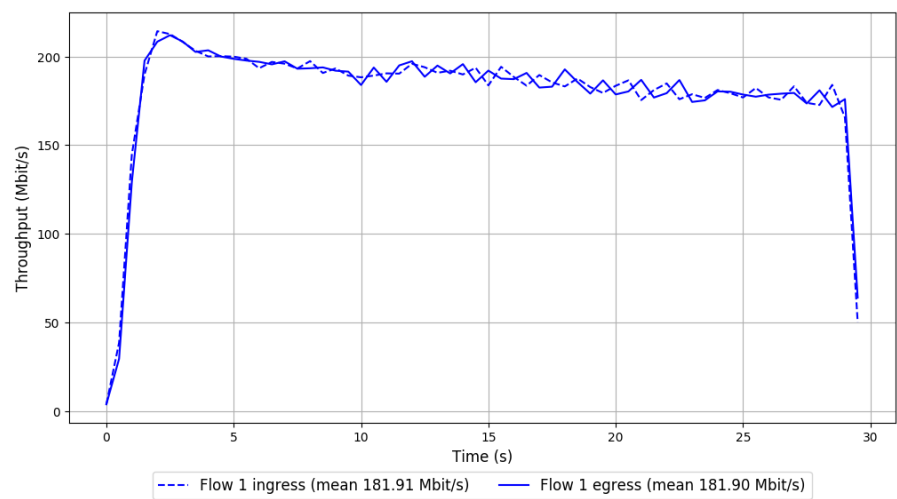
-- Flow 1:

Average throughput: 181.90 Mbit/s

95th percentile per-packet one-way delay: 53.610 ms

Loss rate: 0.00%

Run 3: Report of Indigo-calib — Data Link



Run 4: Statistics of Indigo-calib

Start at: 2017-12-11 14:29:07

End at: 2017-12-11 14:29:37

Below is generated by plot.py at 2017-12-11 16:58:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 196.08 Mbit/s

95th percentile per-packet one-way delay: 53.230 ms

Loss rate: 0.00%

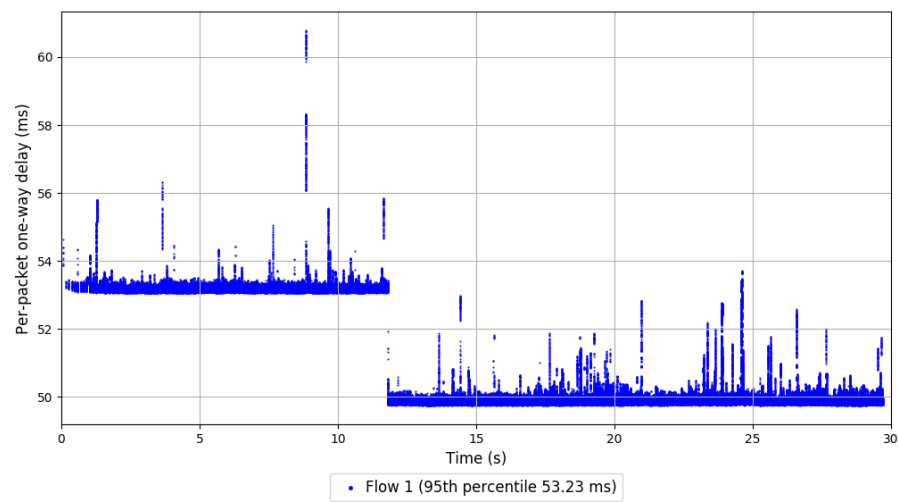
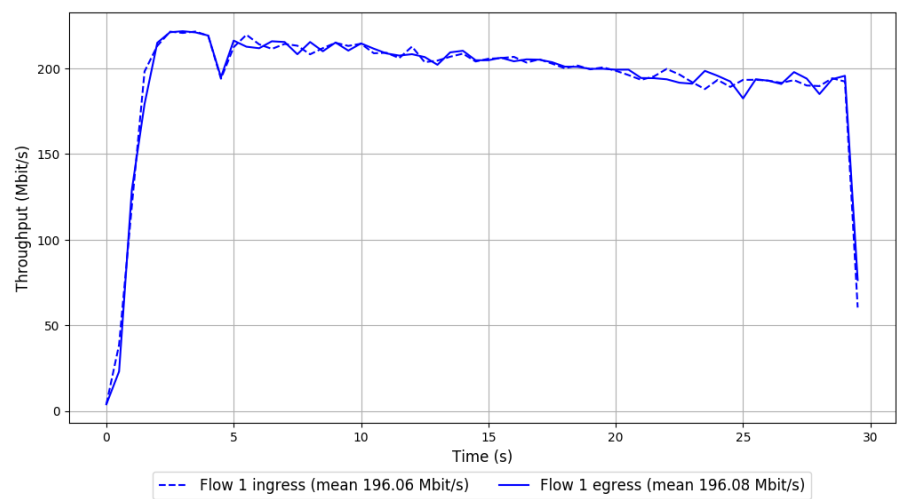
-- Flow 1:

Average throughput: 196.08 Mbit/s

95th percentile per-packet one-way delay: 53.230 ms

Loss rate: 0.00%

Run 4: Report of Indigo-calib — Data Link



Run 5: Statistics of Indigo-calib

Start at: 2017-12-11 14:39:27

End at: 2017-12-11 14:39:57

Below is generated by plot.py at 2017-12-11 16:58:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 191.47 Mbit/s

95th percentile per-packet one-way delay: 50.560 ms

Loss rate: 0.01%

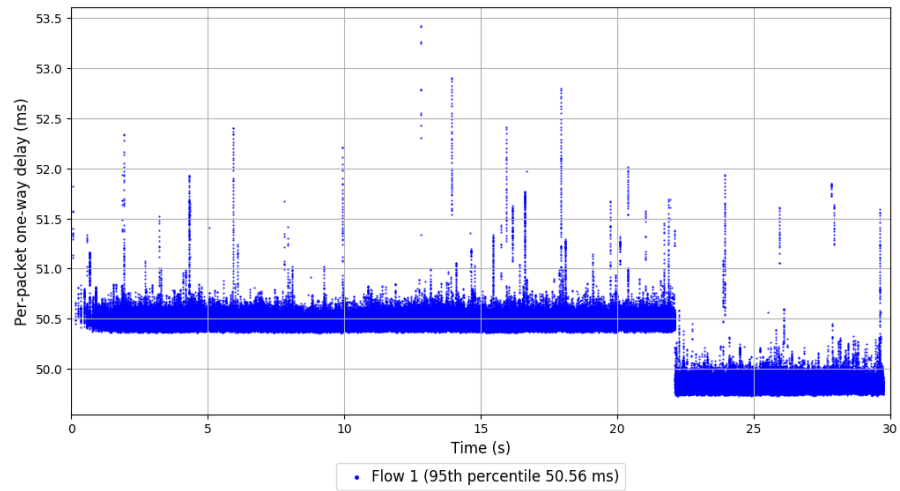
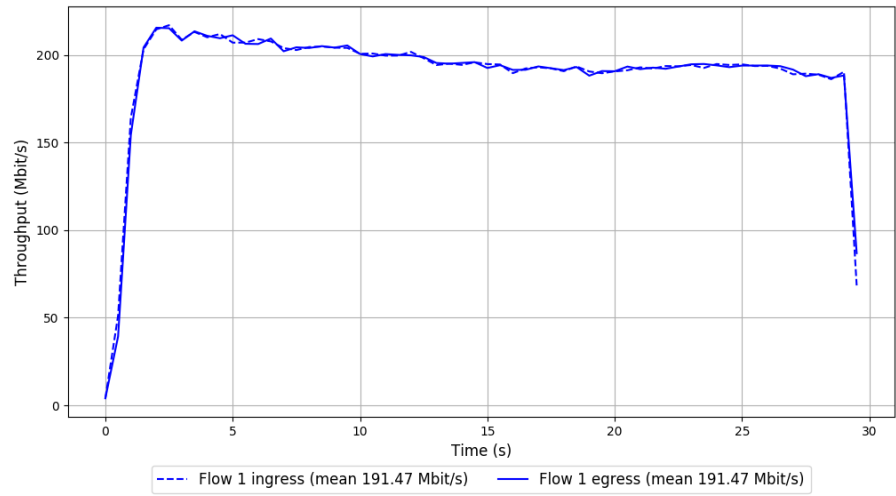
-- Flow 1:

Average throughput: 191.47 Mbit/s

95th percentile per-packet one-way delay: 50.560 ms

Loss rate: 0.01%

Run 5: Report of Indigo-calib — Data Link



Run 6: Statistics of Indigo-calib

Start at: 2017-12-11 14:49:30

End at: 2017-12-11 14:50:00

Below is generated by plot.py at 2017-12-11 16:59:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 193.51 Mbit/s

95th percentile per-packet one-way delay: 53.219 ms

Loss rate: 0.00%

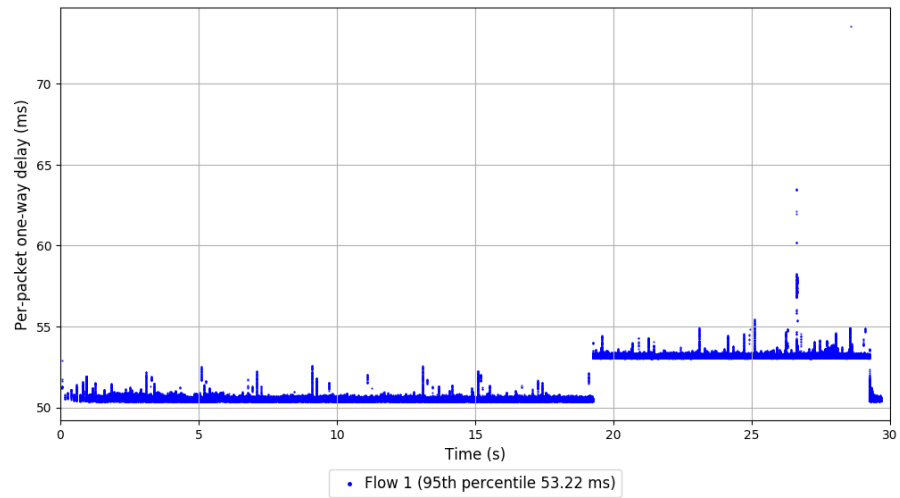
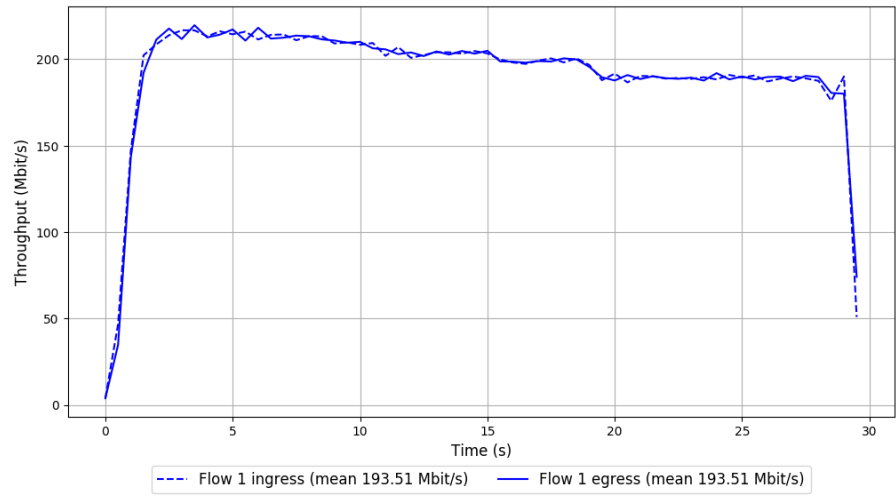
-- Flow 1:

Average throughput: 193.51 Mbit/s

95th percentile per-packet one-way delay: 53.219 ms

Loss rate: 0.00%

Run 6: Report of Indigo-calib — Data Link



Run 7: Statistics of Indigo-calib

Start at: 2017-12-11 14:59:47

End at: 2017-12-11 15:00:17

Below is generated by plot.py at 2017-12-11 16:59:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 187.26 Mbit/s

95th percentile per-packet one-way delay: 53.241 ms

Loss rate: 0.01%

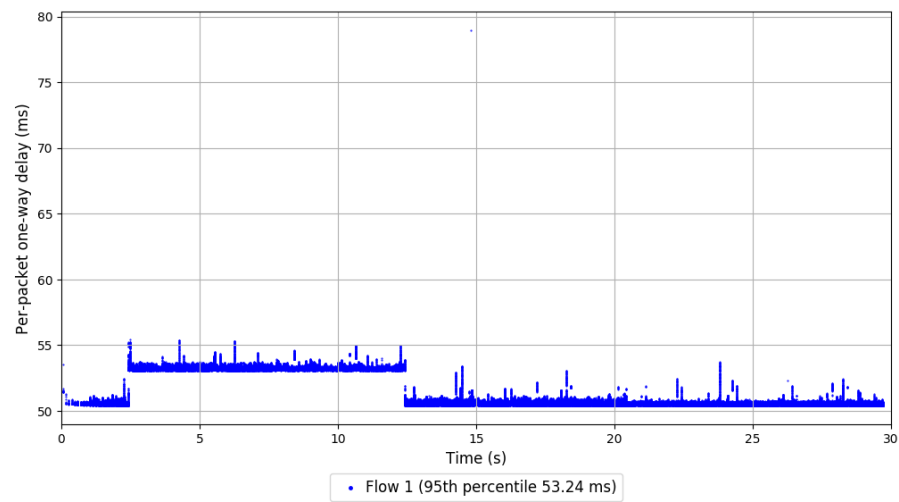
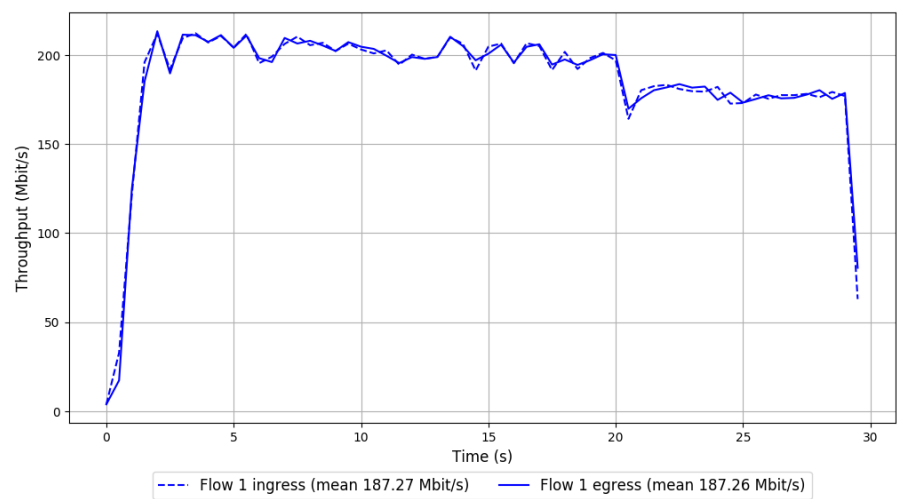
-- Flow 1:

Average throughput: 187.26 Mbit/s

95th percentile per-packet one-way delay: 53.241 ms

Loss rate: 0.01%

Run 7: Report of Indigo-calib — Data Link



Run 8: Statistics of Indigo-calib

Start at: 2017-12-11 15:09:51

End at: 2017-12-11 15:10:21

Below is generated by plot.py at 2017-12-11 16:59:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 198.26 Mbit/s

95th percentile per-packet one-way delay: 53.236 ms

Loss rate: 0.01%

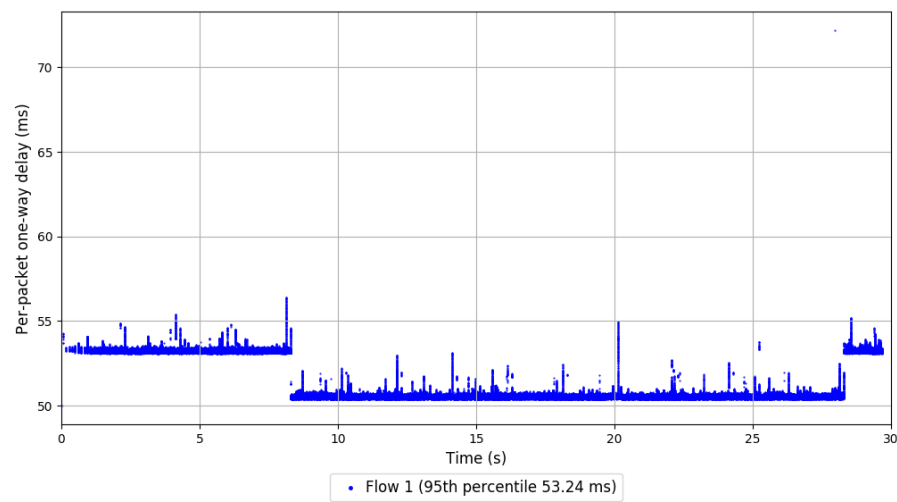
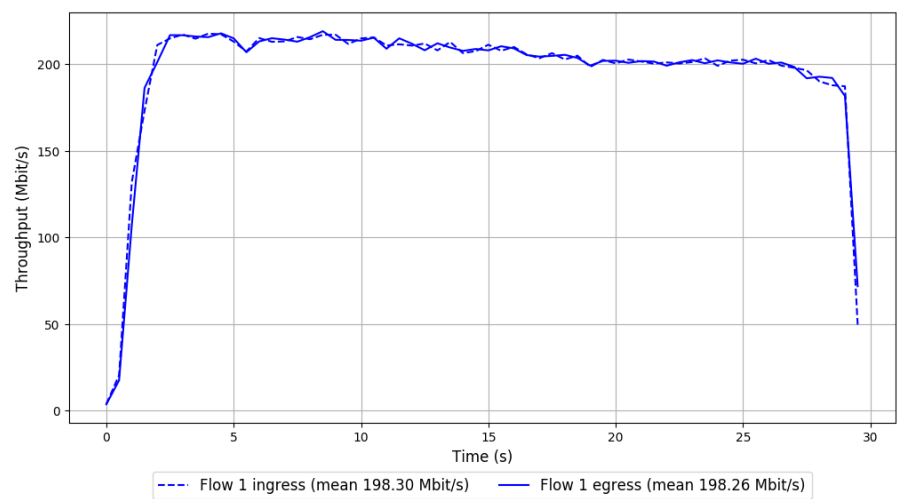
-- Flow 1:

Average throughput: 198.26 Mbit/s

95th percentile per-packet one-way delay: 53.236 ms

Loss rate: 0.01%

Run 8: Report of Indigo-calib — Data Link



Run 9: Statistics of Indigo-calib

Start at: 2017-12-11 15:20:16

End at: 2017-12-11 15:20:46

Below is generated by plot.py at 2017-12-11 16:59:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 194.09 Mbit/s

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

Loss rate: 0.00%

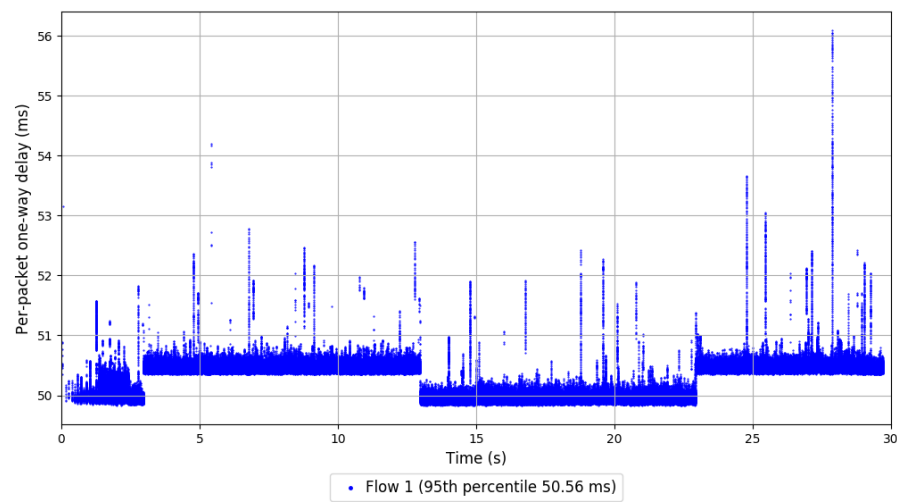
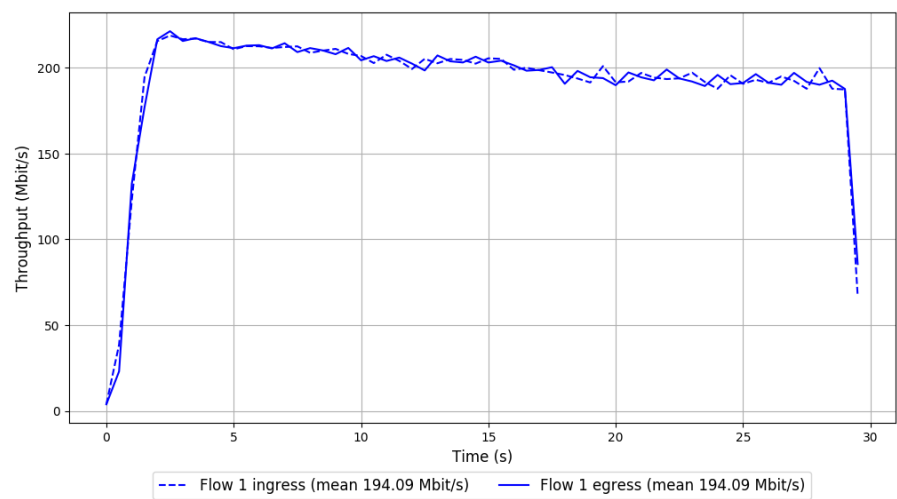
-- Flow 1:

Average throughput: 194.09 Mbit/s

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

Loss rate: 0.00%

Run 9: Report of Indigo-calib — Data Link



Run 10: Statistics of Indigo-calib

Start at: 2017-12-11 15:30:41

End at: 2017-12-11 15:31:11

Below is generated by plot.py at 2017-12-11 16:59:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 201.85 Mbit/s

95th percentile per-packet one-way delay: 53.546 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 201.85 Mbit/s

95th percentile per-packet one-way delay: 53.546 ms

Loss rate: 0.01%

Run 10: Report of Indigo-calib — Data Link

