

Pantheon Report

Generated at 2017-11-30 14:29:43 (UTC).

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

Repeated the test of 14 congestion control schemes 10 times.

Each test lasted for 30 seconds running 1 flow.

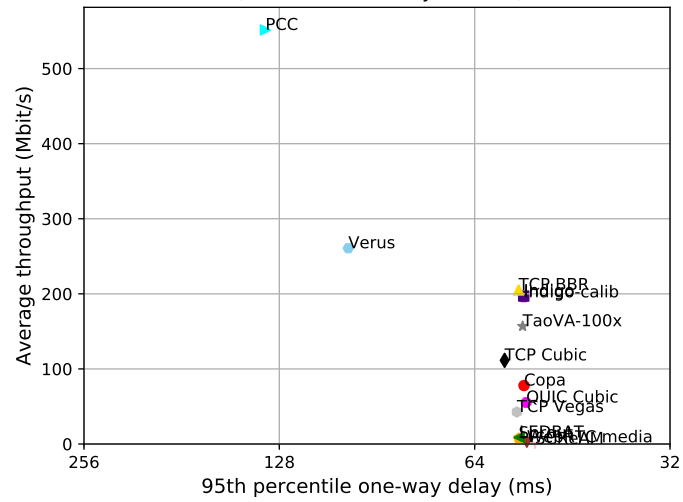
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

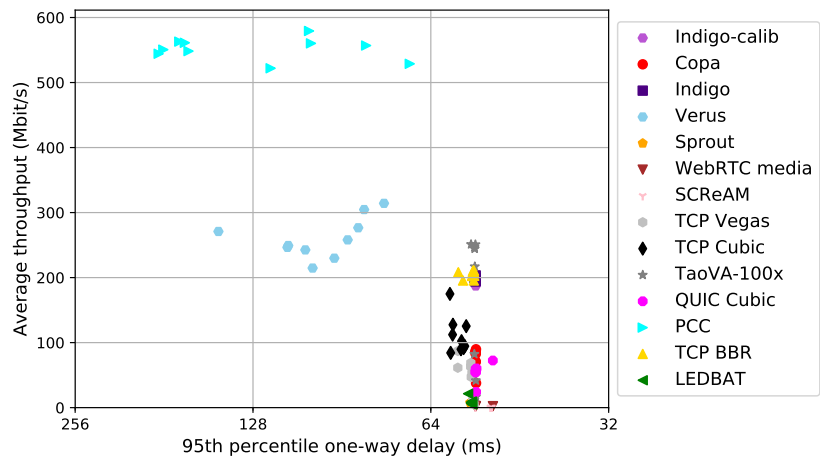
Git summary:

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

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



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



scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	10	205.18	54.76	0.41
TCP Cubic	9	111.40	57.55	0.57
LEDBAT	10	8.75	54.66	0.71
PCC	10	551.44	134.48	1.45
QUIC Cubic	9	55.29	53.31	0.53
SCReAM	3	0.21	51.66	0.38
WebRTC media	6	2.30	53.18	0.42
Sprout	7	7.69	54.77	0.65
TaoVA-100x	10	156.85	53.99	0.36
TCP Vegas	10	42.65	55.10	0.47
Verus	10	260.75	100.23	1.01
Copa	10	77.88	53.72	0.34
Indigo	10	197.05	53.78	0.37
Indigo-calib	10	195.35	53.77	0.36

Run 1: Statistics of TCP BBR

Start at: 2017-11-30 10:14:04

End at: 2017-11-30 10:14:34

Below is generated by plot.py at 2017-11-30 13:49:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 208.27 Mbit/s

95th percentile per-packet one-way delay: 57.494 ms

Loss rate: 0.58%

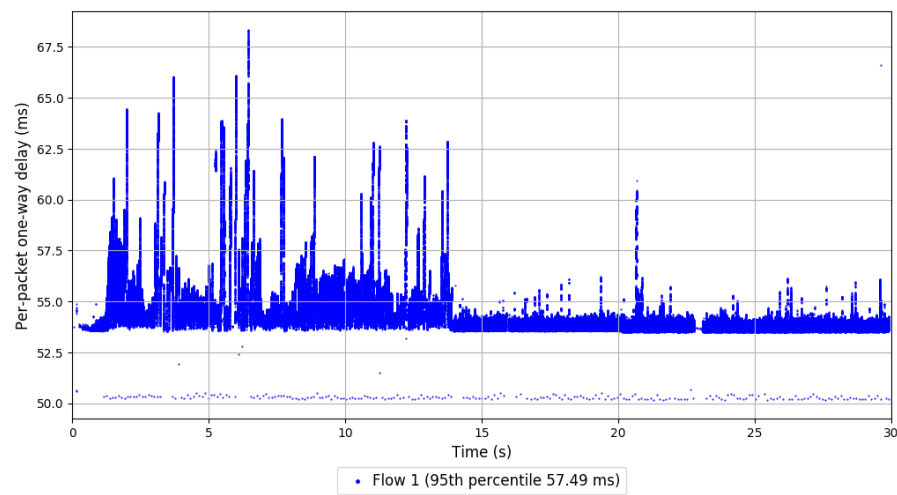
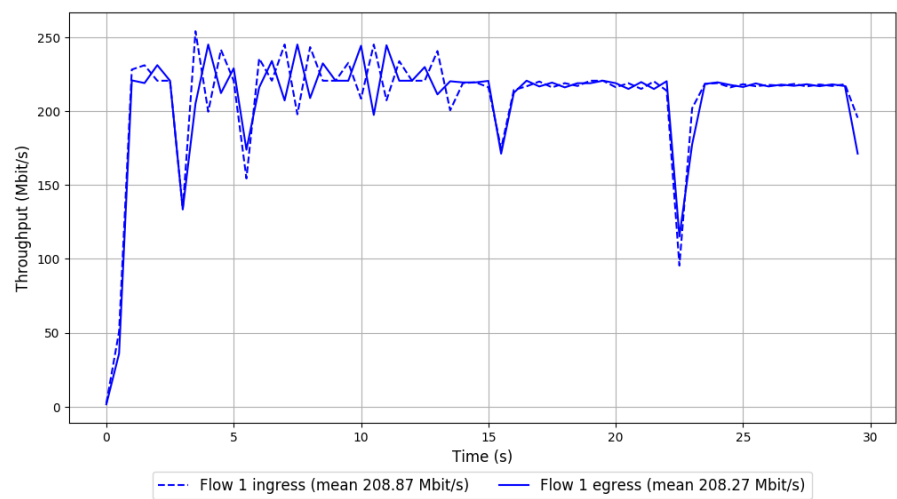
-- Flow 1:

Average throughput: 208.27 Mbit/s

95th percentile per-packet one-way delay: 57.494 ms

Loss rate: 0.58%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2017-11-30 10:24:19

End at: 2017-11-30 10:24:49

Below is generated by plot.py at 2017-11-30 13:49:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 195.57 Mbit/s

95th percentile per-packet one-way delay: 54.132 ms

Loss rate: 0.48%

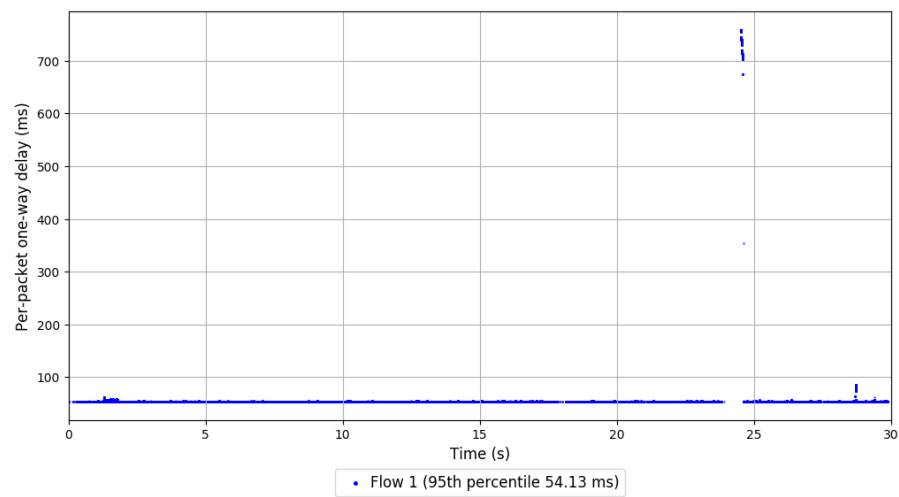
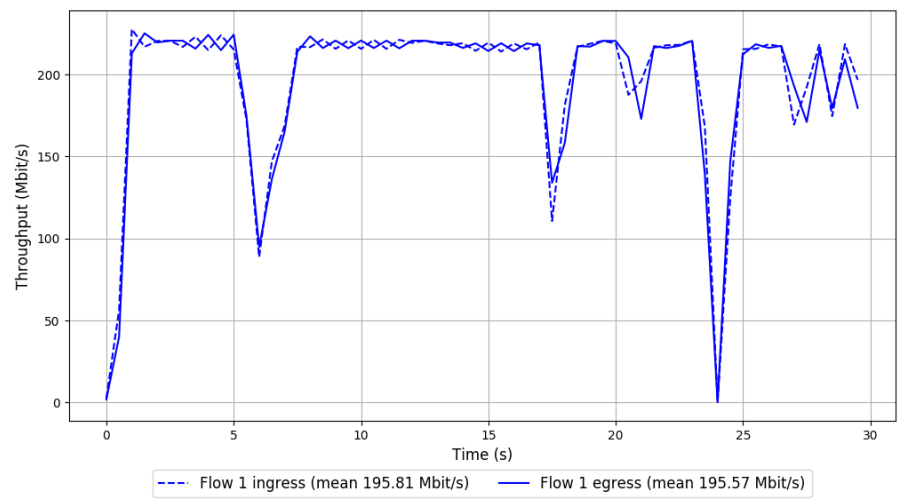
-- Flow 1:

Average throughput: 195.57 Mbit/s

95th percentile per-packet one-way delay: 54.132 ms

Loss rate: 0.48%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2017-11-30 10:34:56

End at: 2017-11-30 10:35:26

Below is generated by plot.py at 2017-11-30 13:49:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 202.49 Mbit/s

95th percentile per-packet one-way delay: 54.512 ms

Loss rate: 0.38%

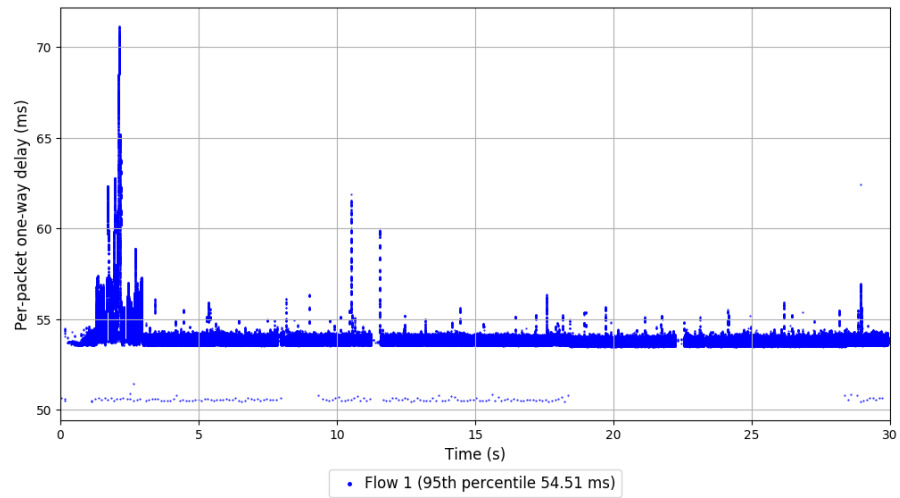
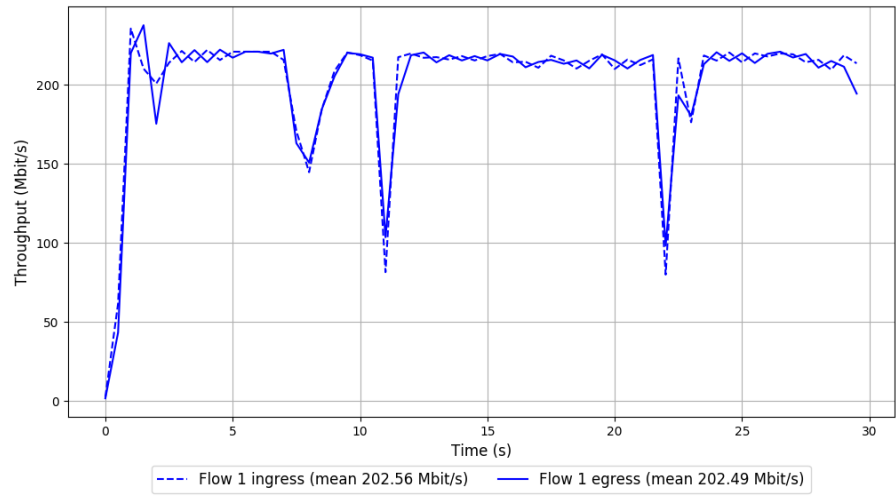
-- Flow 1:

Average throughput: 202.49 Mbit/s

95th percentile per-packet one-way delay: 54.512 ms

Loss rate: 0.38%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2017-11-30 10:45:25

End at: 2017-11-30 10:45:55

Below is generated by plot.py at 2017-11-30 13:49:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 210.82 Mbit/s

95th percentile per-packet one-way delay: 54.093 ms

Loss rate: 0.37%

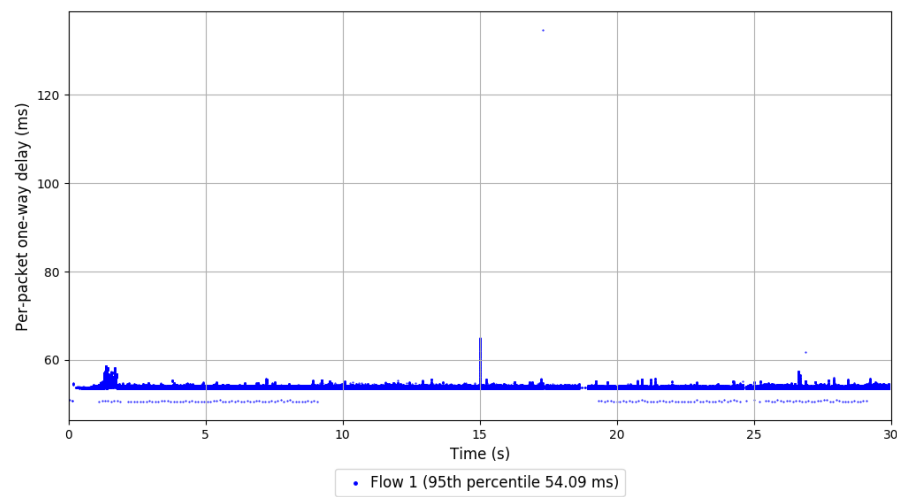
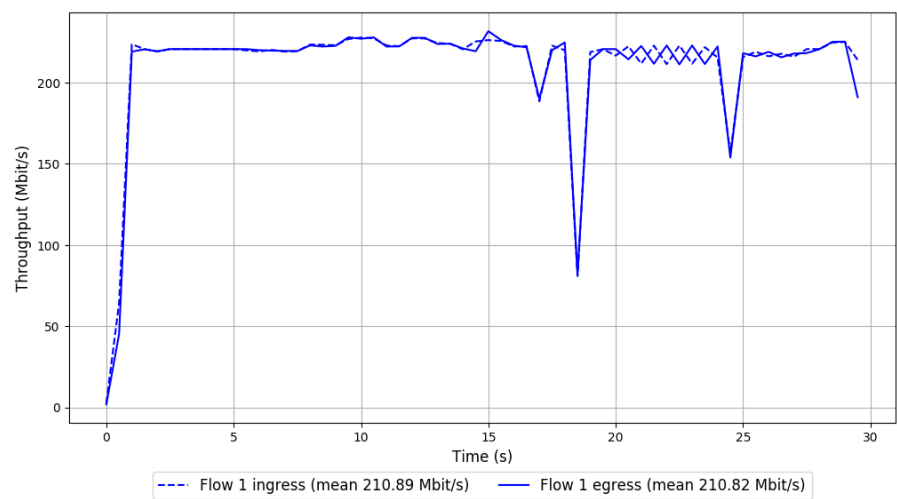
-- Flow 1:

Average throughput: 210.82 Mbit/s

95th percentile per-packet one-way delay: 54.093 ms

Loss rate: 0.37%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2017-11-30 10:55:41

End at: 2017-11-30 10:56:11

Below is generated by plot.py at 2017-11-30 13:49:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 208.92 Mbit/s

95th percentile per-packet one-way delay: 54.341 ms

Loss rate: 0.43%

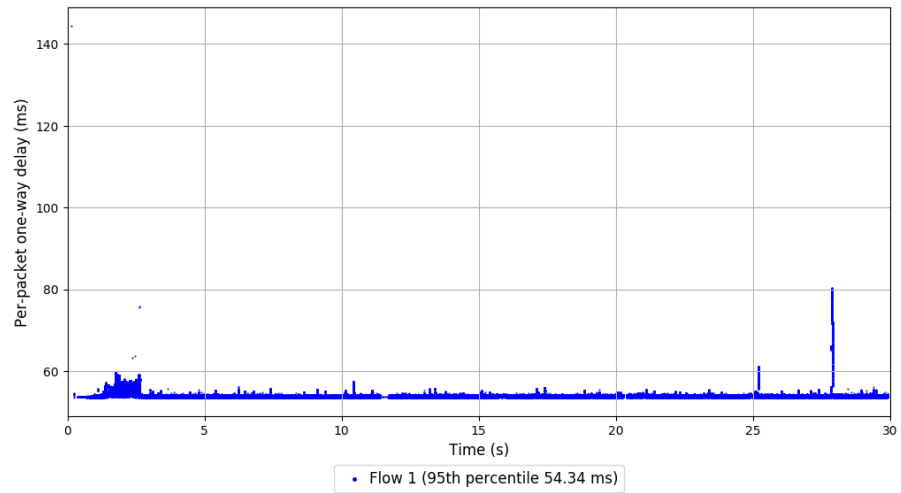
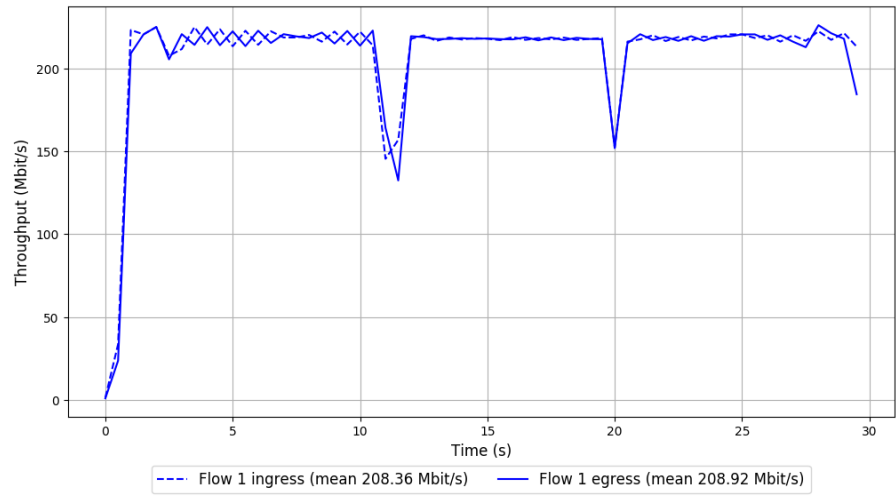
-- Flow 1:

Average throughput: 208.92 Mbit/s

95th percentile per-packet one-way delay: 54.341 ms

Loss rate: 0.43%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2017-11-30 11:06:08

End at: 2017-11-30 11:06:38

Below is generated by plot.py at 2017-11-30 13:49:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 207.70 Mbit/s

95th percentile per-packet one-way delay: 54.098 ms

Loss rate: 0.36%

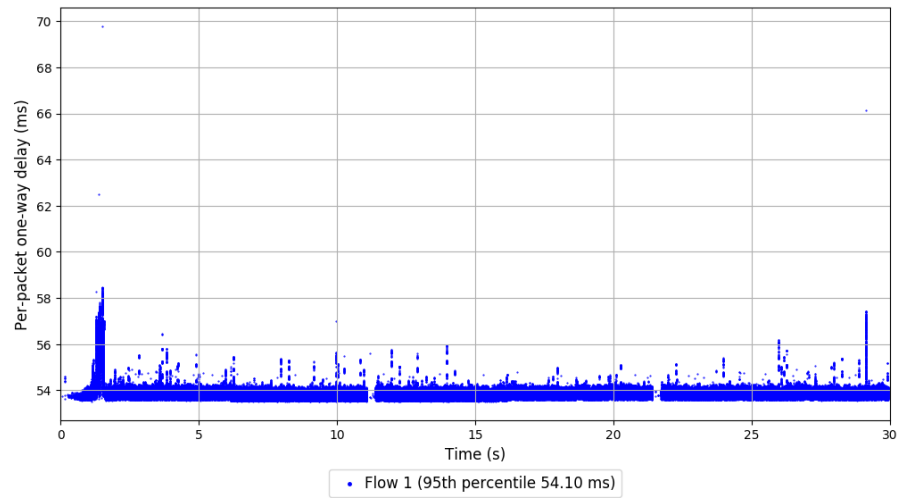
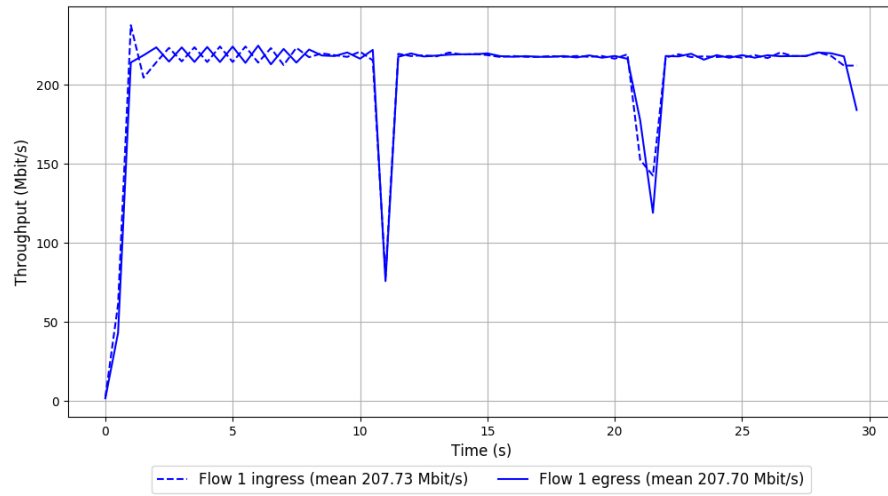
-- Flow 1:

Average throughput: 207.70 Mbit/s

95th percentile per-packet one-way delay: 54.098 ms

Loss rate: 0.36%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2017-11-30 11:16:44

End at: 2017-11-30 11:17:14

Below is generated by plot.py at 2017-11-30 13:49:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 208.55 Mbit/s

95th percentile per-packet one-way delay: 54.188 ms

Loss rate: 0.35%

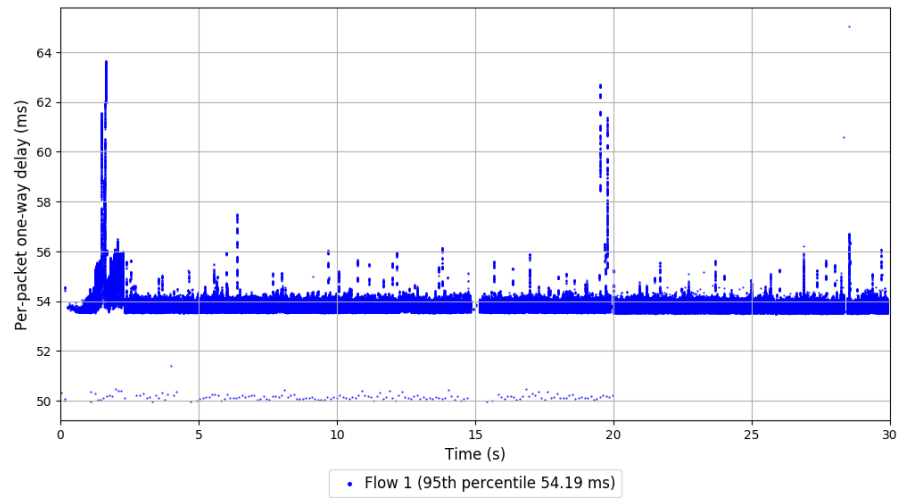
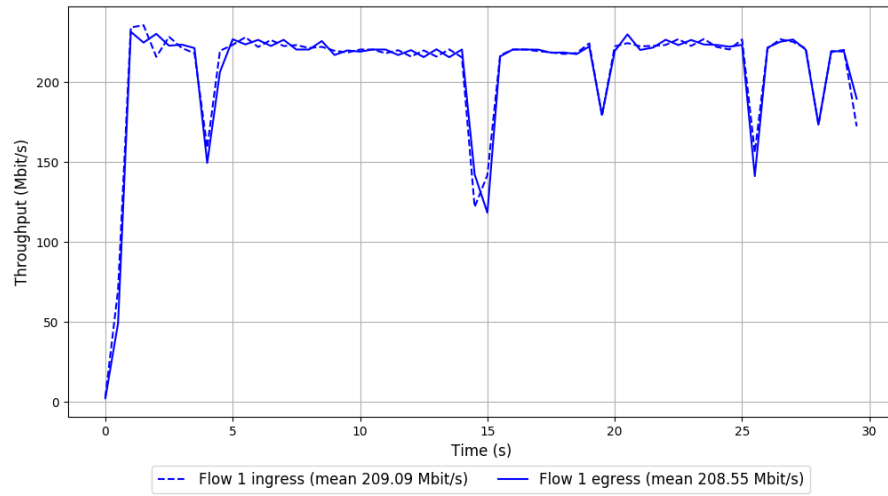
-- Flow 1:

Average throughput: 208.55 Mbit/s

95th percentile per-packet one-way delay: 54.188 ms

Loss rate: 0.35%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2017-11-30 11:27:19

End at: 2017-11-30 11:27:49

Below is generated by plot.py at 2017-11-30 13:49:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 211.10 Mbit/s

95th percentile per-packet one-way delay: 54.232 ms

Loss rate: 0.36%

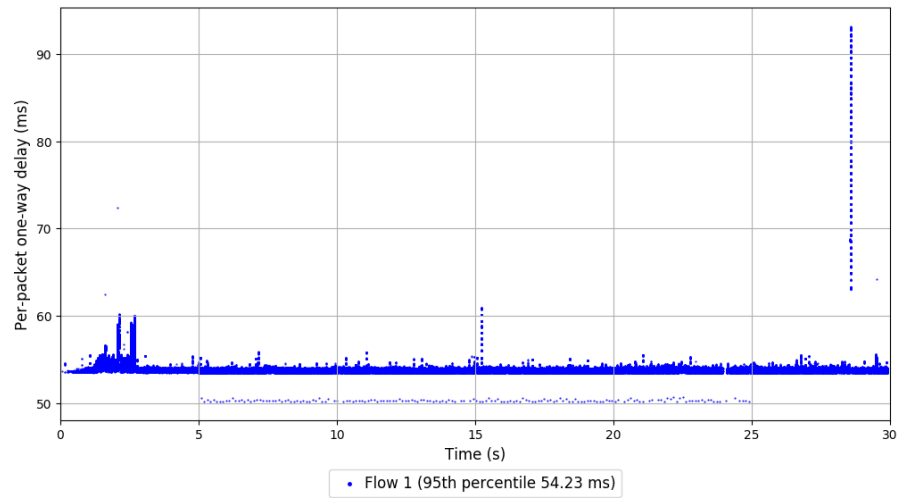
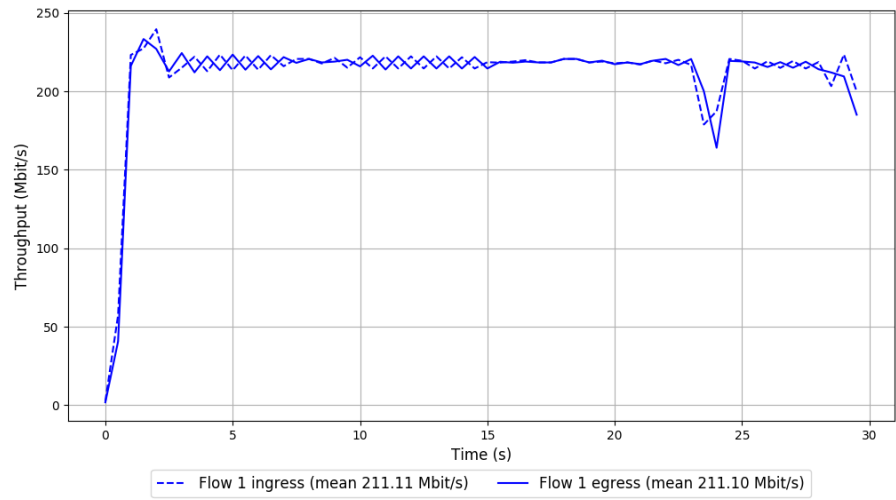
-- Flow 1:

Average throughput: 211.10 Mbit/s

95th percentile per-packet one-way delay: 54.232 ms

Loss rate: 0.36%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2017-11-30 11:37:56

End at: 2017-11-30 11:38:26

Below is generated by plot.py at 2017-11-30 13:52:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 202.90 Mbit/s

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

Loss rate: 0.40%

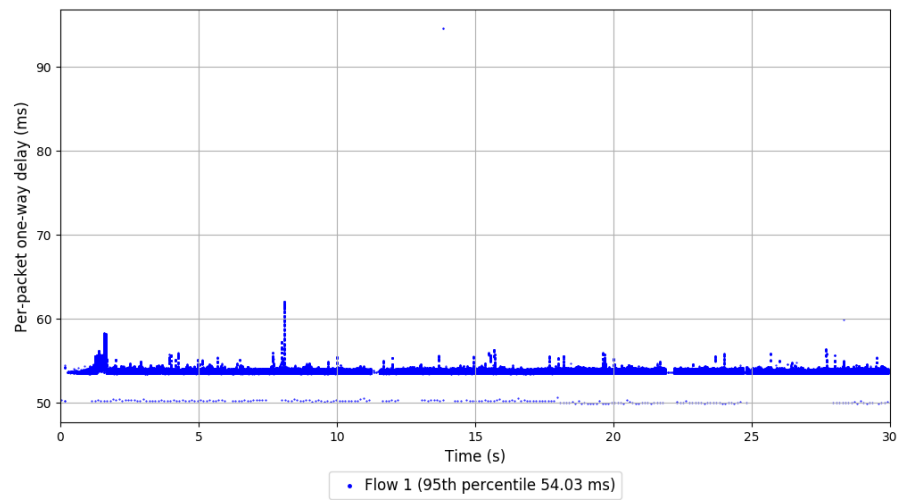
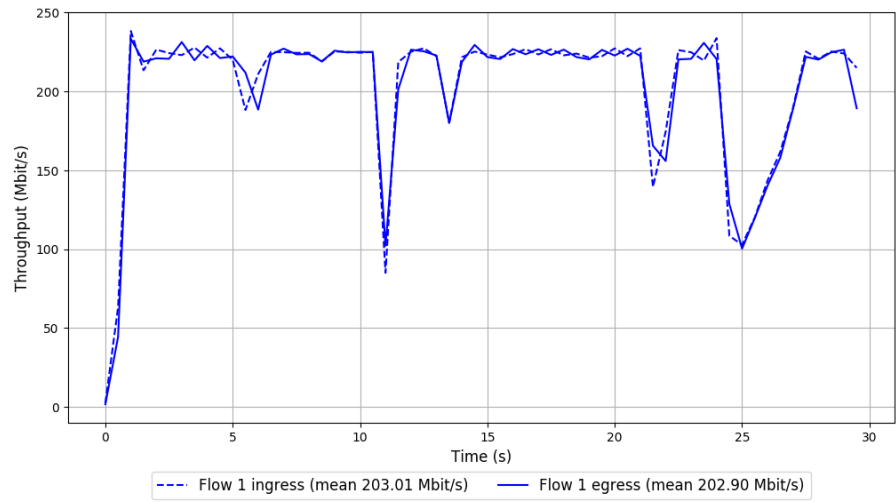
-- Flow 1:

Average throughput: 202.90 Mbit/s

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

Loss rate: 0.40%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2017-11-30 11:48:14

End at: 2017-11-30 11:48:44

Below is generated by plot.py at 2017-11-30 13:52:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 195.49 Mbit/s

95th percentile per-packet one-way delay: 56.450 ms

Loss rate: 0.43%

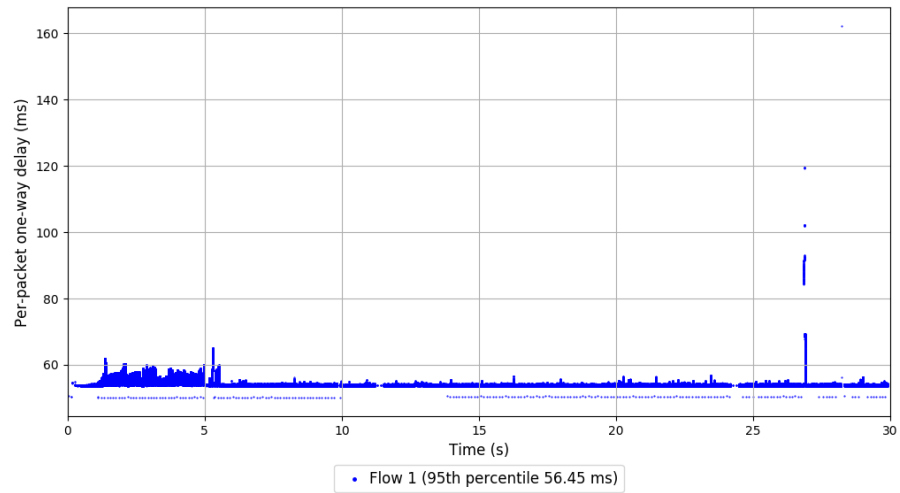
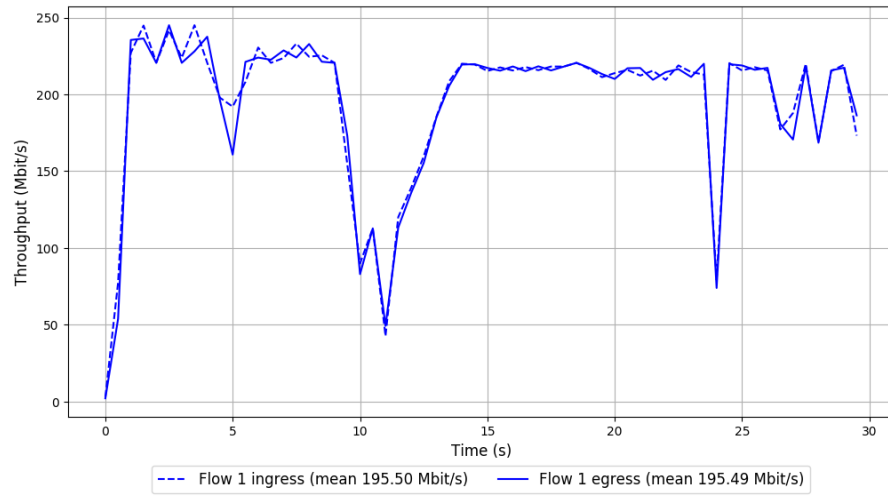
-- Flow 1:

Average throughput: 195.49 Mbit/s

95th percentile per-packet one-way delay: 56.450 ms

Loss rate: 0.43%

Run 10: Report of TCP BBR — Data Link

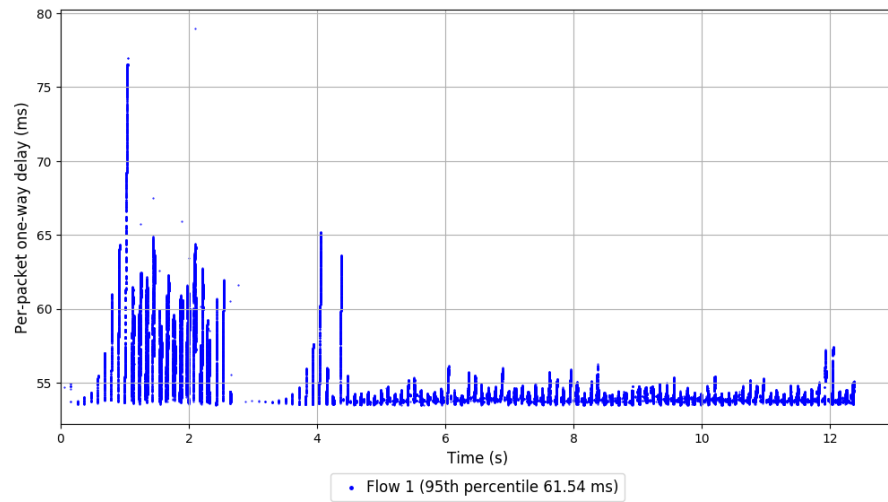
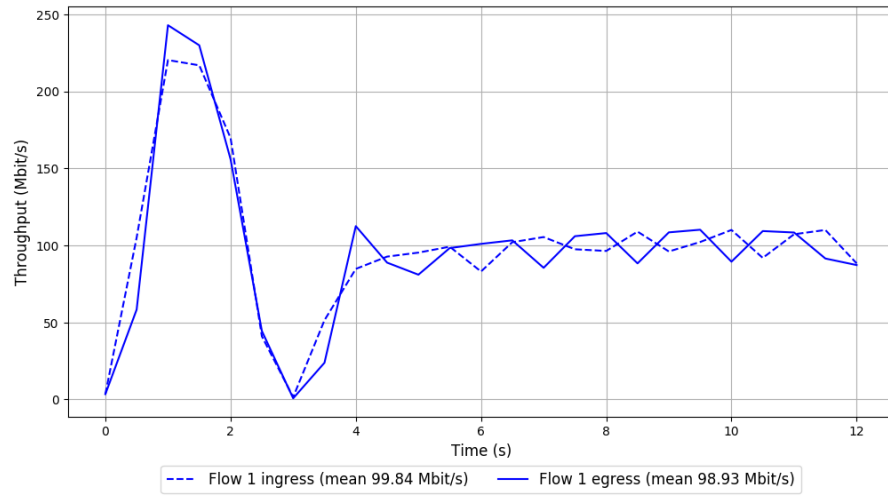


Run 1: Statistics of TCP Cubic

Start at: 2017-11-30 10:17:28

End at: 2017-11-30 10:17:58

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2017-11-30 10:28:00

End at: 2017-11-30 10:28:30

Below is generated by plot.py at 2017-11-30 13:52:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.23 Mbit/s

95th percentile per-packet one-way delay: 59.235 ms

Loss rate: 0.76%

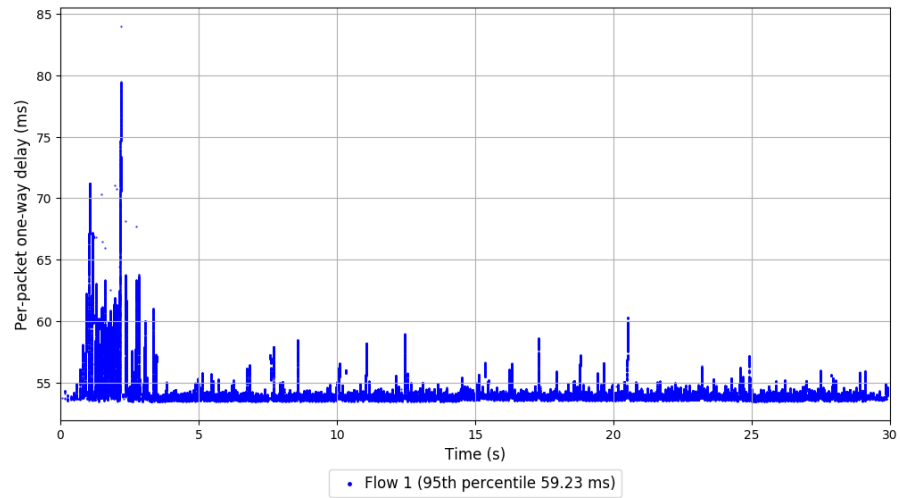
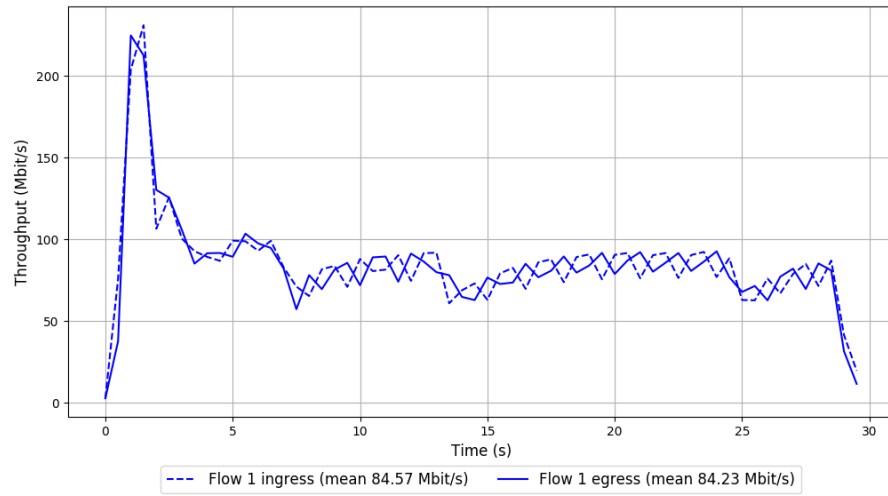
-- Flow 1:

Average throughput: 84.23 Mbit/s

95th percentile per-packet one-way delay: 59.235 ms

Loss rate: 0.76%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2017-11-30 10:38:37

End at: 2017-11-30 10:39:07

Below is generated by plot.py at 2017-11-30 13:52:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 102.30 Mbit/s

95th percentile per-packet one-way delay: 56.782 ms

Loss rate: 0.36%

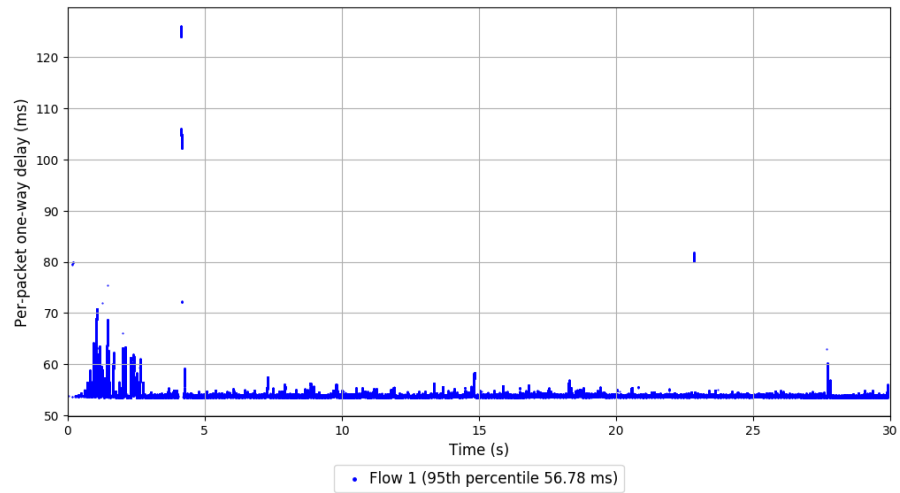
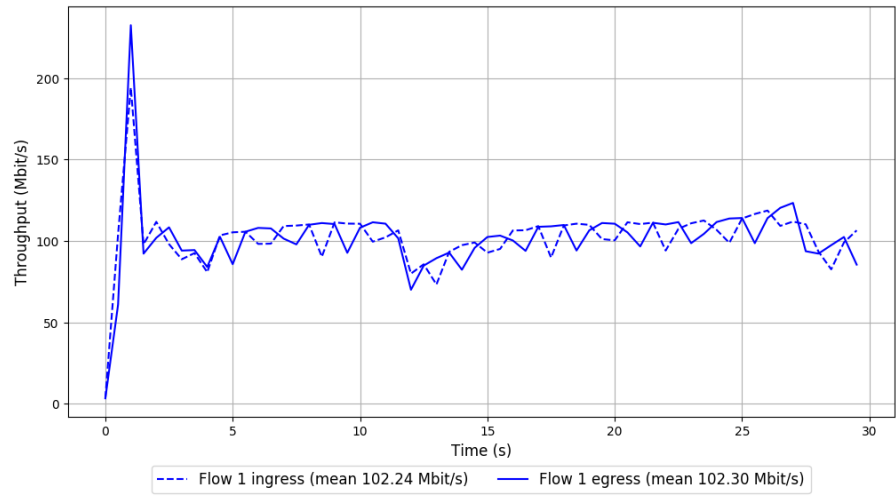
-- Flow 1:

Average throughput: 102.30 Mbit/s

95th percentile per-packet one-way delay: 56.782 ms

Loss rate: 0.36%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2017-11-30 10:48:49

End at: 2017-11-30 10:49:19

Below is generated by plot.py at 2017-11-30 13:52:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 127.53 Mbit/s

95th percentile per-packet one-way delay: 58.715 ms

Loss rate: 0.79%

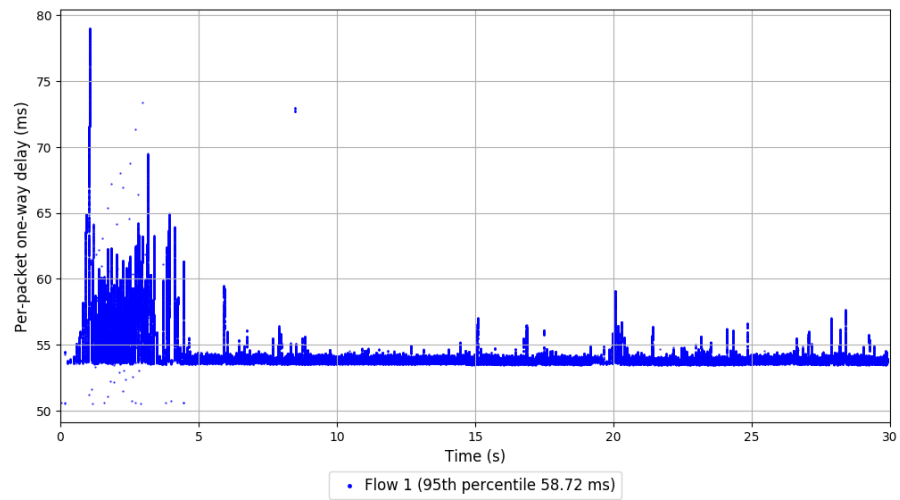
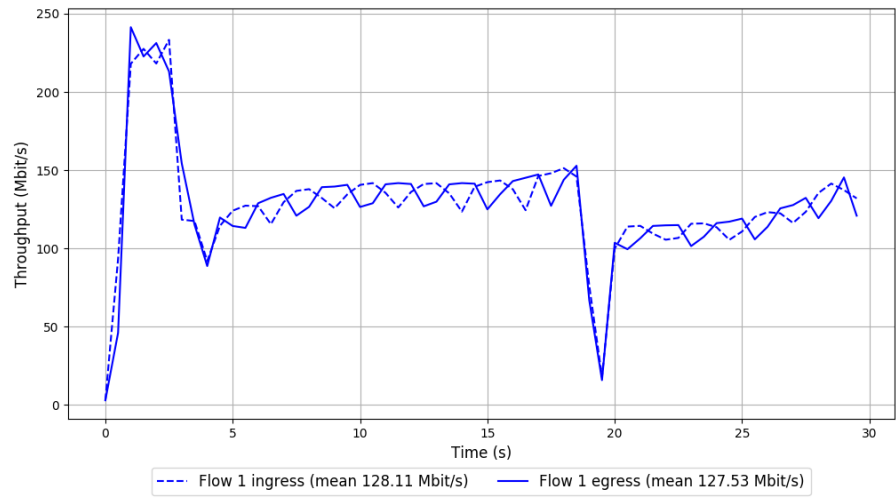
-- Flow 1:

Average throughput: 127.53 Mbit/s

95th percentile per-packet one-way delay: 58.715 ms

Loss rate: 0.79%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2017-11-30 10:59:17

End at: 2017-11-30 10:59:47

Below is generated by plot.py at 2017-11-30 13:52:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.60 Mbit/s

95th percentile per-packet one-way delay: 56.321 ms

Loss rate: 0.65%

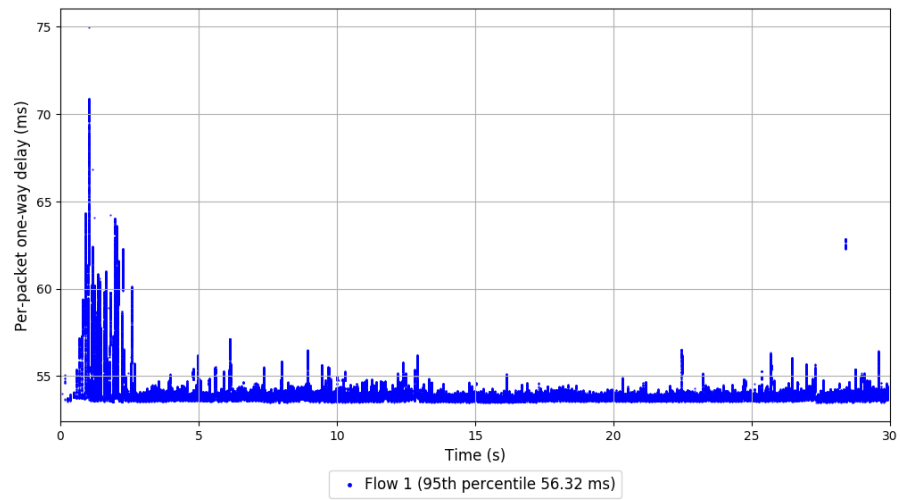
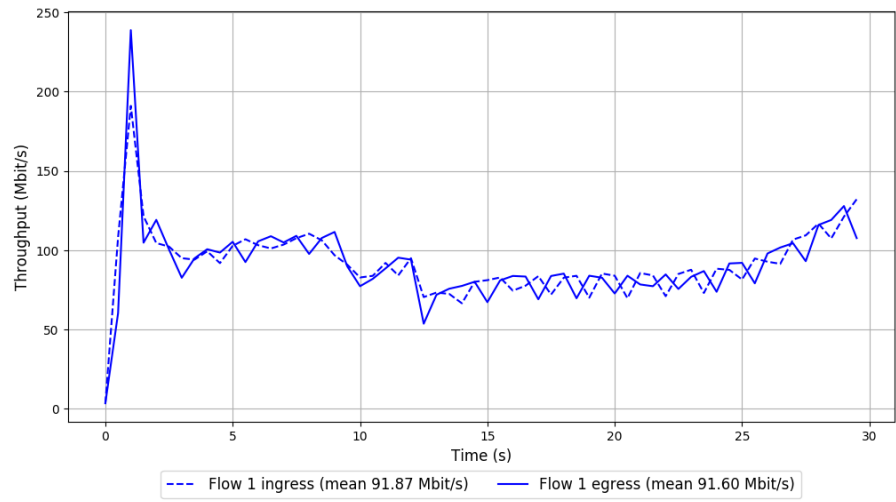
-- Flow 1:

Average throughput: 91.60 Mbit/s

95th percentile per-packet one-way delay: 56.321 ms

Loss rate: 0.65%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2017-11-30 11:09:49

End at: 2017-11-30 11:10:19

Below is generated by plot.py at 2017-11-30 13:52:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.57 Mbit/s

95th percentile per-packet one-way delay: 56.058 ms

Loss rate: 0.50%

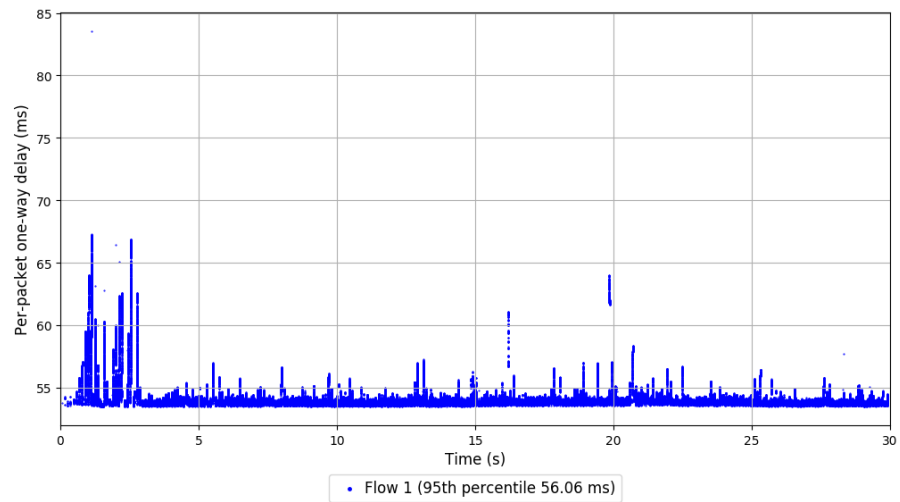
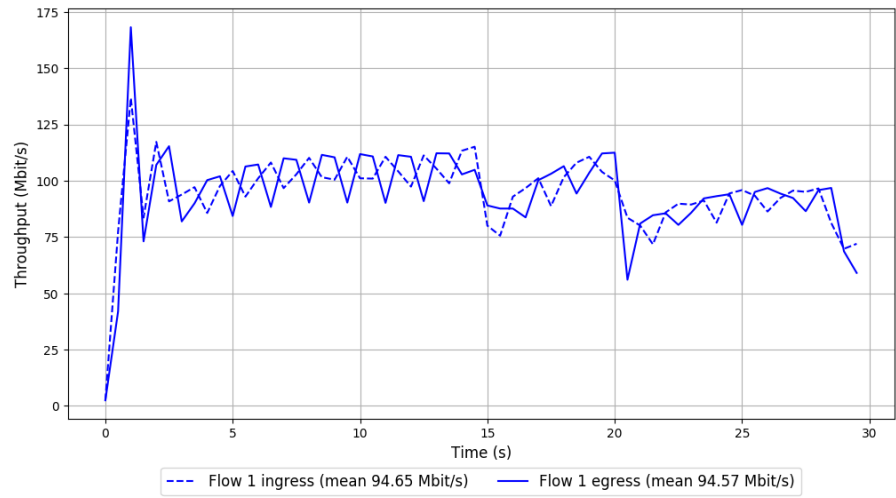
-- Flow 1:

Average throughput: 94.57 Mbit/s

95th percentile per-packet one-way delay: 56.058 ms

Loss rate: 0.50%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2017-11-30 11:20:22

End at: 2017-11-30 11:20:52

Below is generated by plot.py at 2017-11-30 13:52:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 112.29 Mbit/s

95th percentile per-packet one-way delay: 58.791 ms

Loss rate: 0.84%

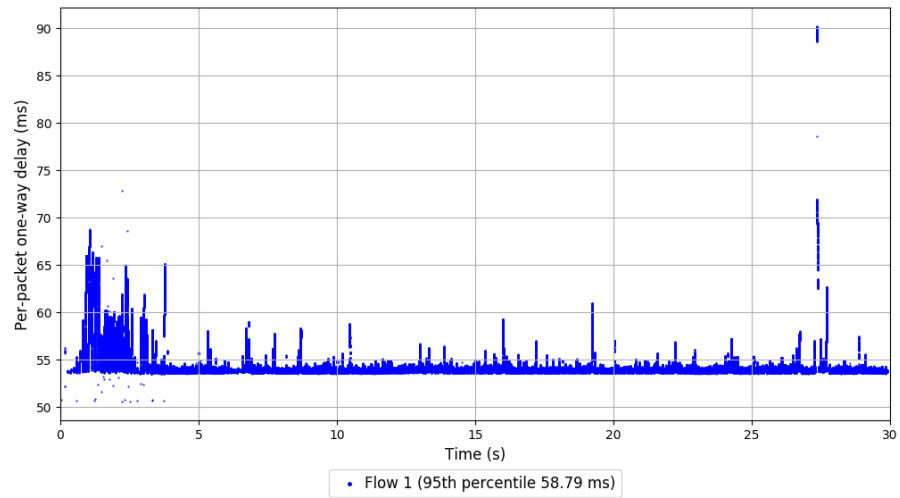
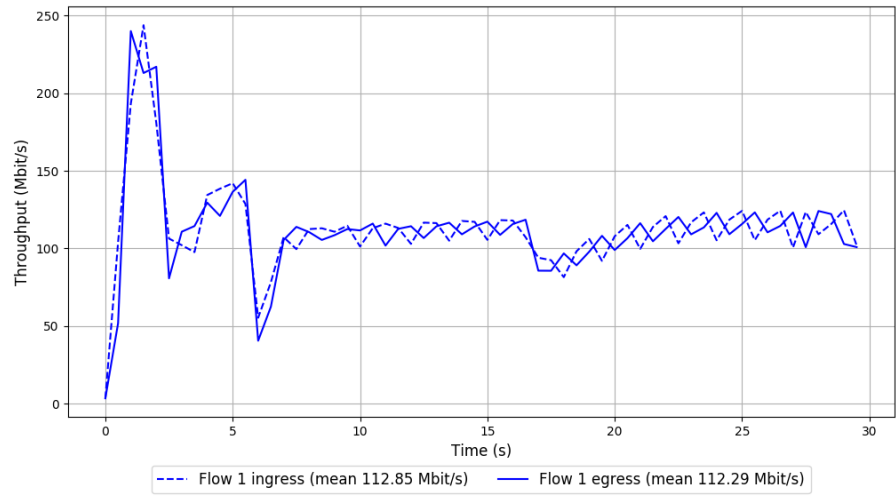
-- Flow 1:

Average throughput: 112.29 Mbit/s

95th percentile per-packet one-way delay: 58.791 ms

Loss rate: 0.84%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2017-11-30 11:31:01

End at: 2017-11-30 11:31:31

Below is generated by plot.py at 2017-11-30 13:52:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 89.82 Mbit/s

95th percentile per-packet one-way delay: 56.907 ms

Loss rate: 0.54%

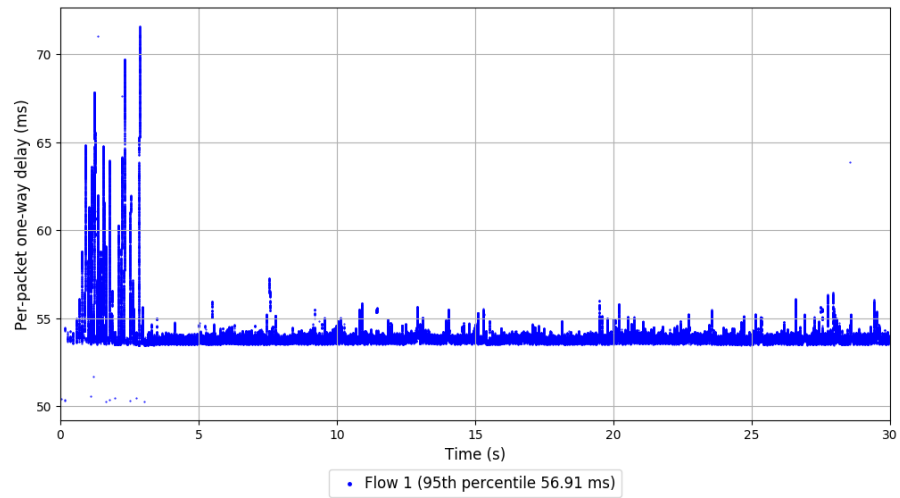
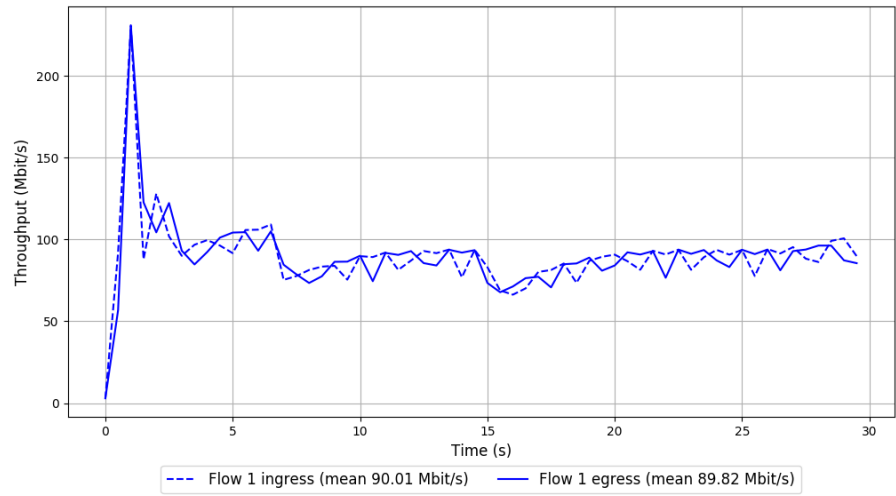
-- Flow 1:

Average throughput: 89.82 Mbit/s

95th percentile per-packet one-way delay: 56.907 ms

Loss rate: 0.54%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2017-11-30 11:41:23

End at: 2017-11-30 11:41:53

Below is generated by plot.py at 2017-11-30 13:52:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 125.34 Mbit/s

95th percentile per-packet one-way delay: 55.752 ms

Loss rate: 0.38%

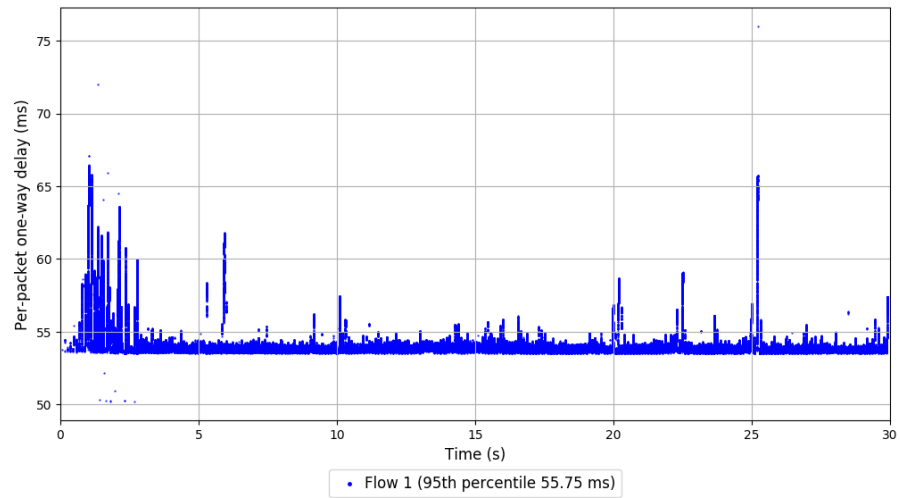
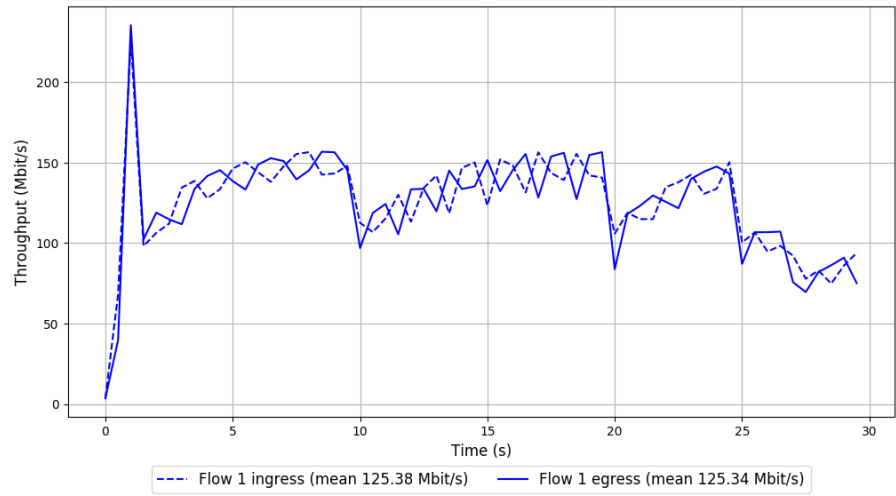
-- Flow 1:

Average throughput: 125.34 Mbit/s

95th percentile per-packet one-way delay: 55.752 ms

Loss rate: 0.38%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2017-11-30 11:51:34

End at: 2017-11-30 11:52:04

Below is generated by plot.py at 2017-11-30 13:53:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 174.90 Mbit/s

95th percentile per-packet one-way delay: 59.405 ms

Loss rate: 0.30%

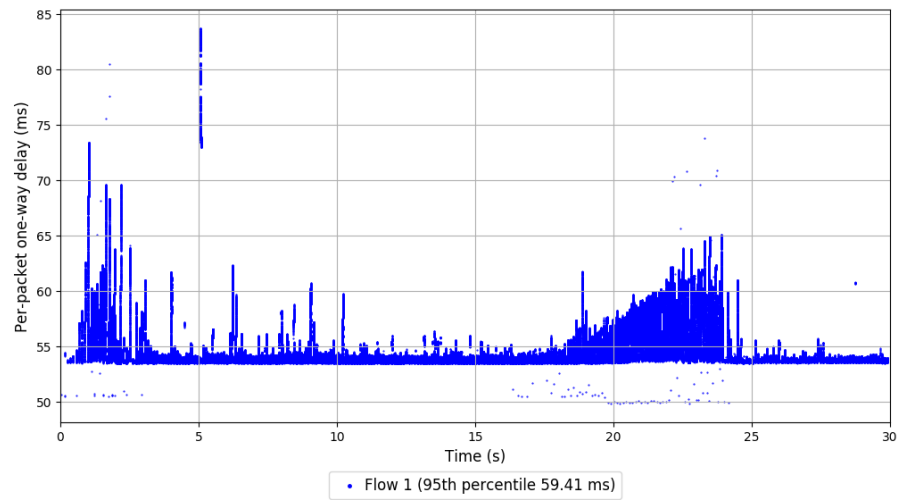
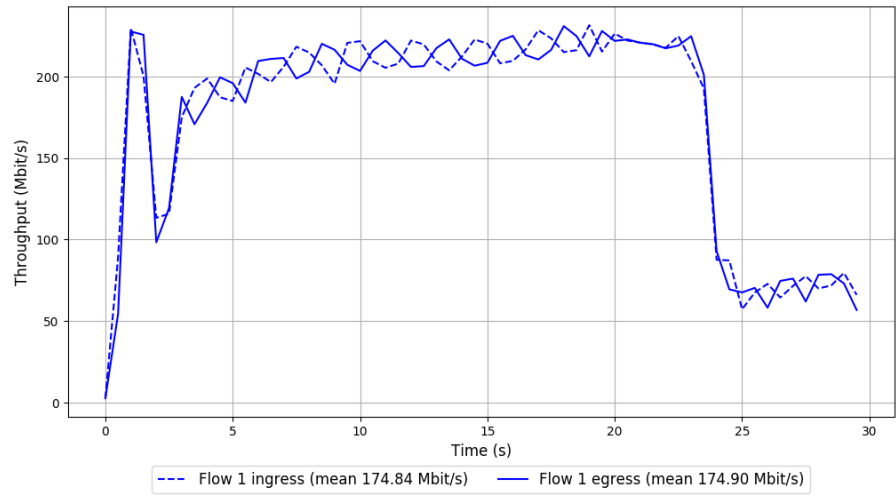
-- Flow 1:

Average throughput: 174.90 Mbit/s

95th percentile per-packet one-way delay: 59.405 ms

Loss rate: 0.30%

Run 10: Report of TCP Cubic — Data Link

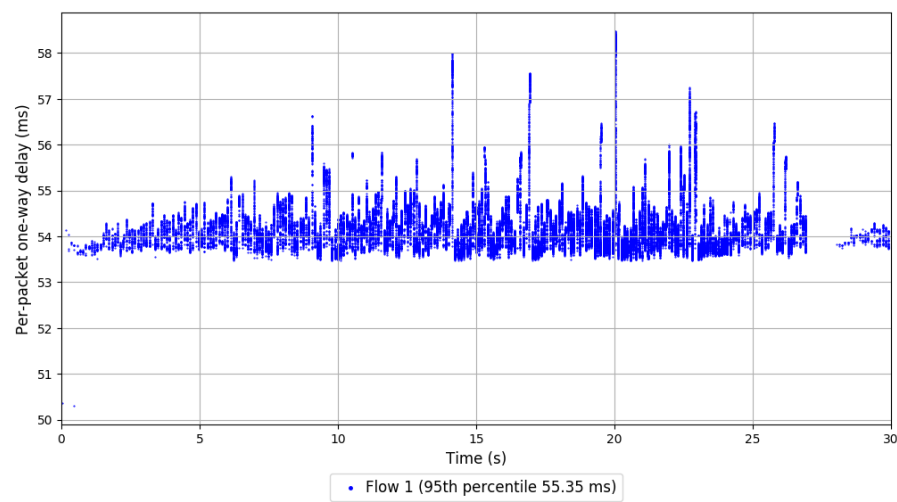
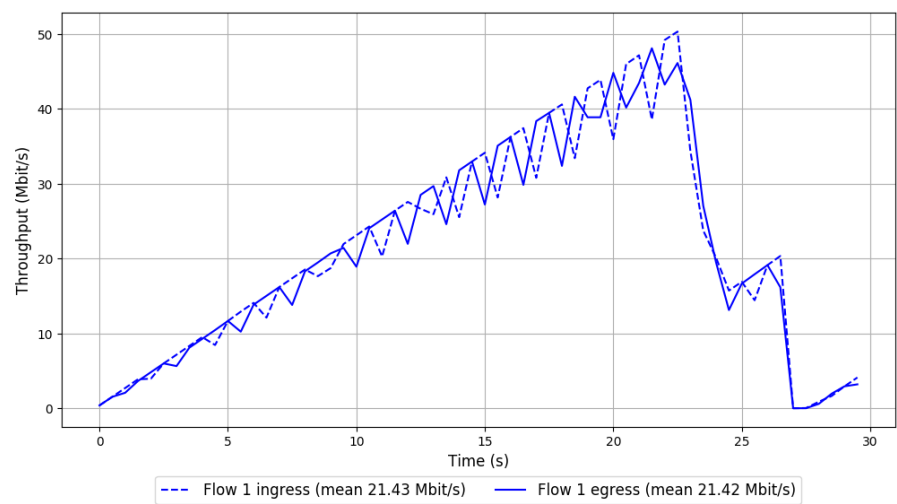


```
Run 1: Statistics of LEDBAT

Start at: 2017-11-30 10:15:31
End at: 2017-11-30 10:16:01

# Below is generated by plot.py at 2017-11-30 13:53:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 21.42 Mbit/s
95th percentile per-packet one-way delay: 55.346 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 21.42 Mbit/s
95th percentile per-packet one-way delay: 55.346 ms
Loss rate: 0.40%
```

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2017-11-30 10:26:06

End at: 2017-11-30 10:26:36

Below is generated by plot.py at 2017-11-30 13:53:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.24 Mbit/s

95th percentile per-packet one-way delay: 54.774 ms

Loss rate: 1.26%

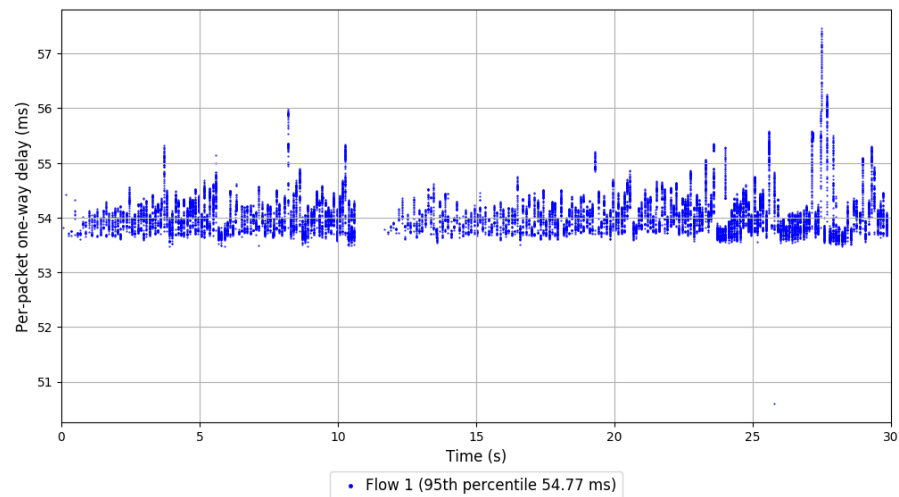
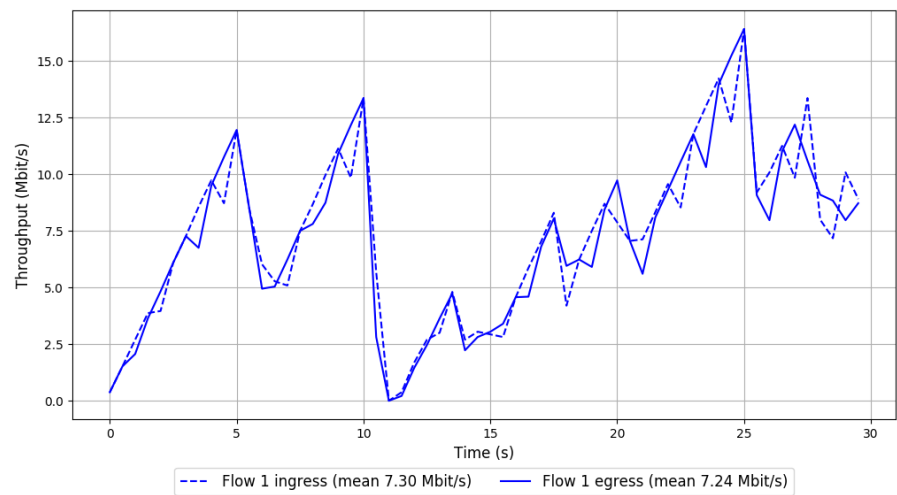
-- Flow 1:

Average throughput: 7.24 Mbit/s

95th percentile per-packet one-way delay: 54.774 ms

Loss rate: 1.26%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2017-11-30 10:36:42

End at: 2017-11-30 10:37:12

Below is generated by plot.py at 2017-11-30 13:53:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.22 Mbit/s

95th percentile per-packet one-way delay: 54.456 ms

Loss rate: 0.03%

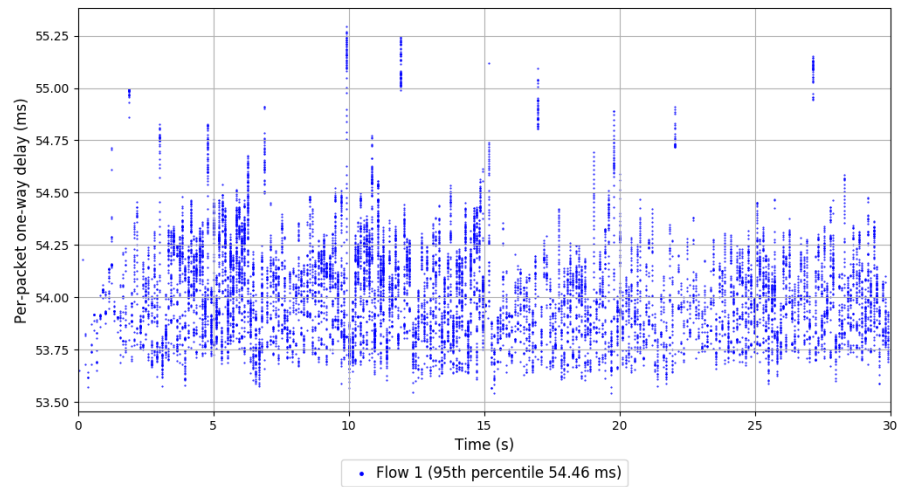
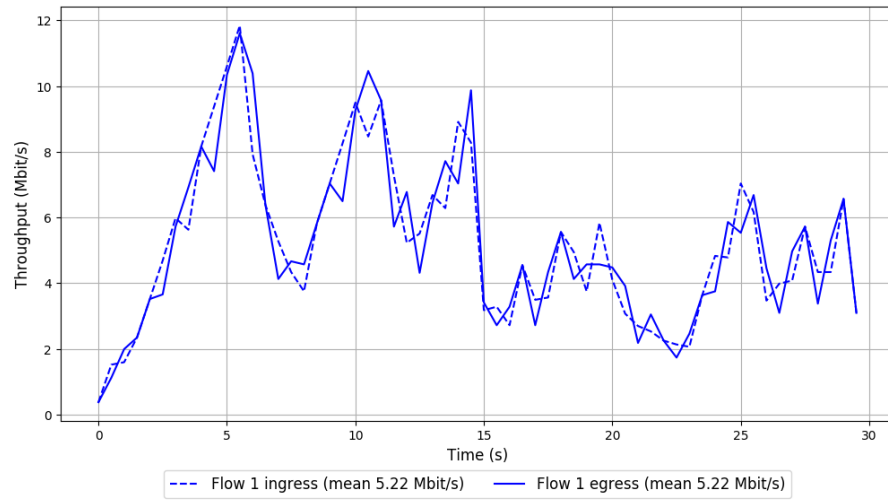
-- Flow 1:

Average throughput: 5.22 Mbit/s

95th percentile per-packet one-way delay: 54.456 ms

Loss rate: 0.03%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2017-11-30 10:46:54

End at: 2017-11-30 10:47:24

Below is generated by plot.py at 2017-11-30 13:53:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 9.28 Mbit/s

95th percentile per-packet one-way delay: 54.597 ms

Loss rate: 0.47%

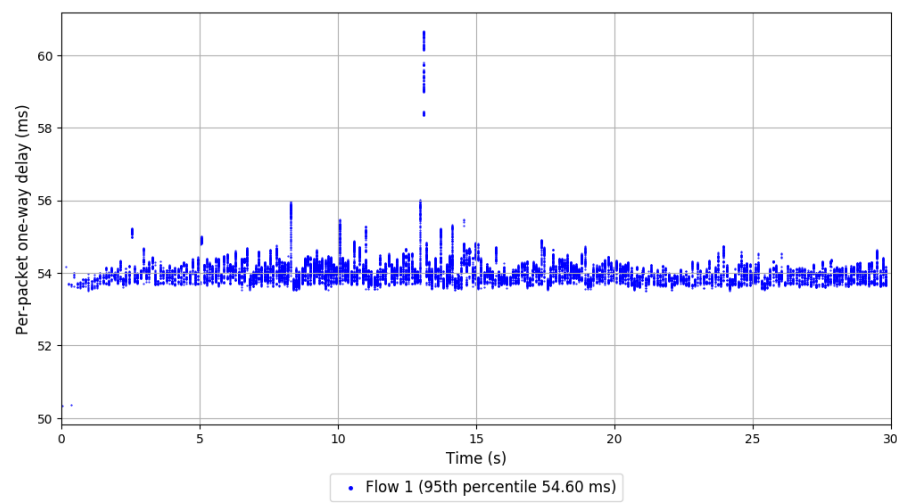
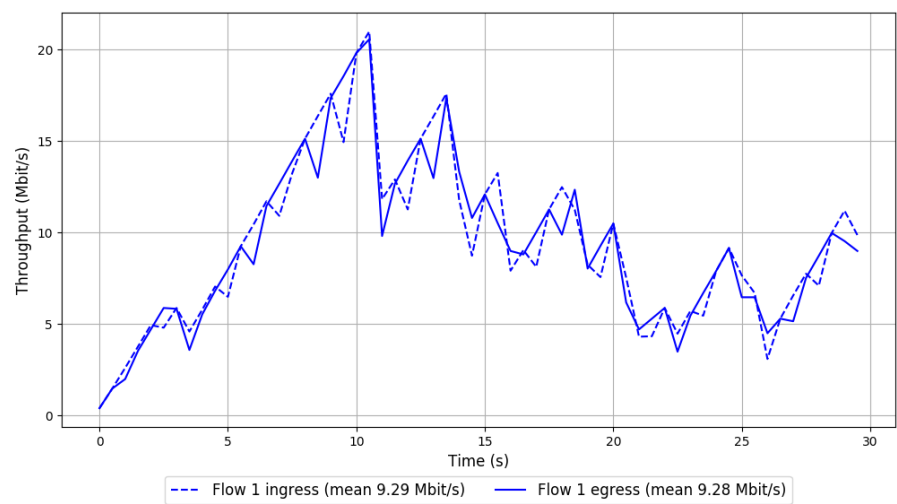
-- Flow 1:

Average throughput: 9.28 Mbit/s

95th percentile per-packet one-way delay: 54.597 ms

Loss rate: 0.47%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2017-11-30 10:57:24

End at: 2017-11-30 10:57:54

Below is generated by plot.py at 2017-11-30 13:53:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.21 Mbit/s

95th percentile per-packet one-way delay: 54.546 ms

Loss rate: 0.91%

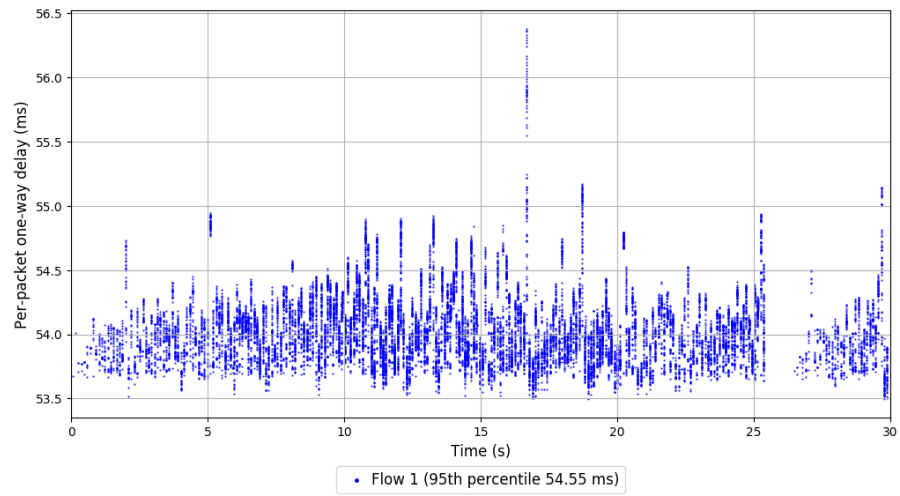
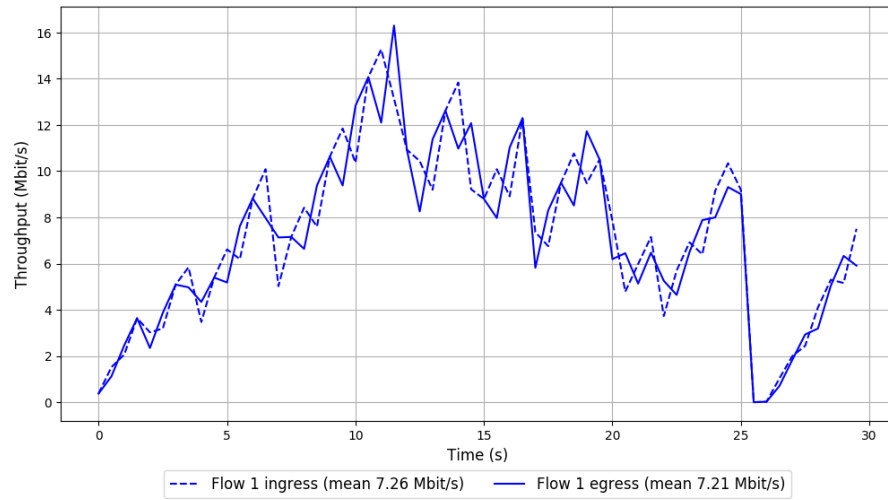
-- Flow 1:

Average throughput: 7.21 Mbit/s

95th percentile per-packet one-way delay: 54.546 ms

Loss rate: 0.91%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2017-11-30 11:07:54

End at: 2017-11-30 11:08:24

Below is generated by plot.py at 2017-11-30 13:53:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.94 Mbit/s

95th percentile per-packet one-way delay: 54.575 ms

Loss rate: 1.34%

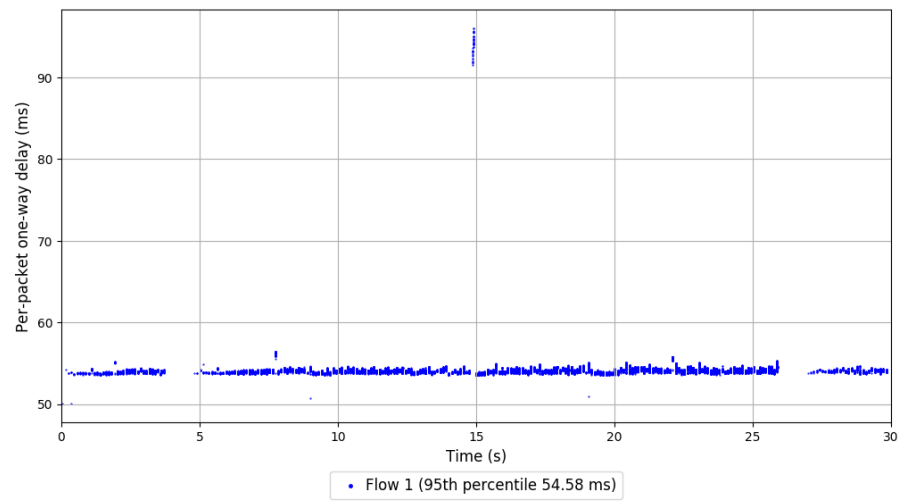
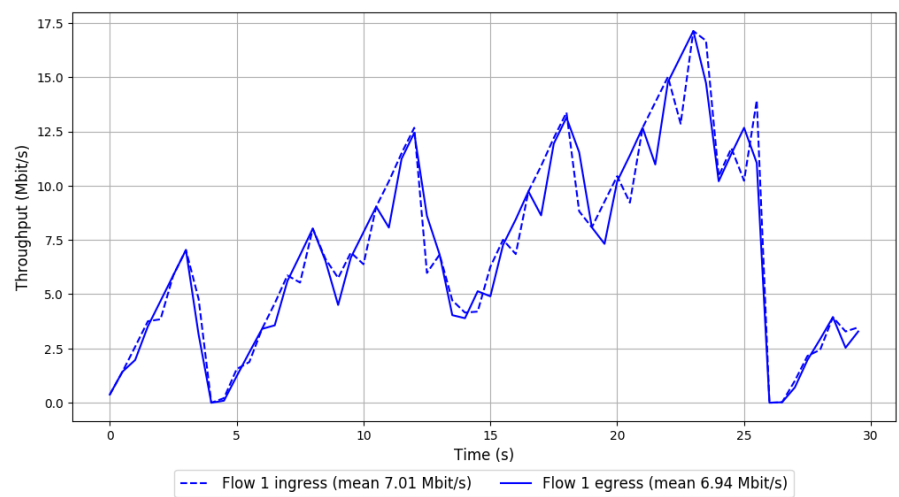
-- Flow 1:

Average throughput: 6.94 Mbit/s

95th percentile per-packet one-way delay: 54.575 ms

Loss rate: 1.34%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2017-11-30 11:18:26

End at: 2017-11-30 11:18:56

Below is generated by plot.py at 2017-11-30 13:53:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 9.03 Mbit/s

95th percentile per-packet one-way delay: 54.510 ms

Loss rate: 0.46%

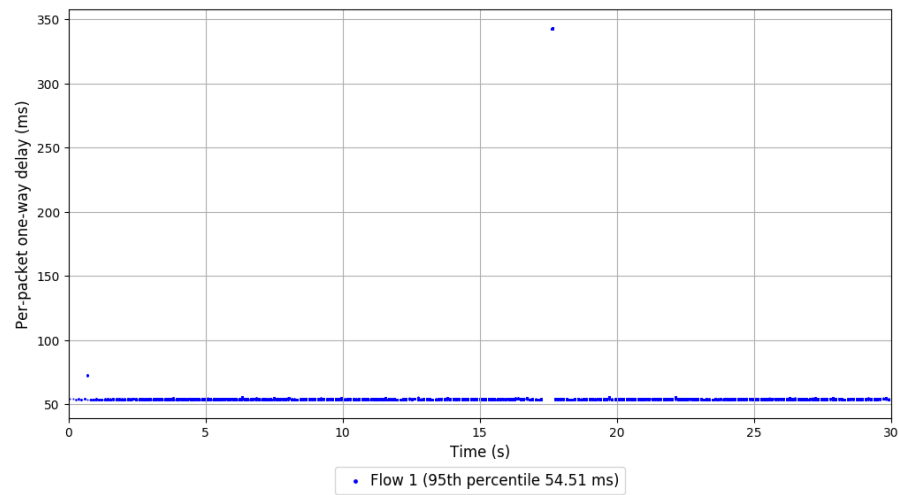
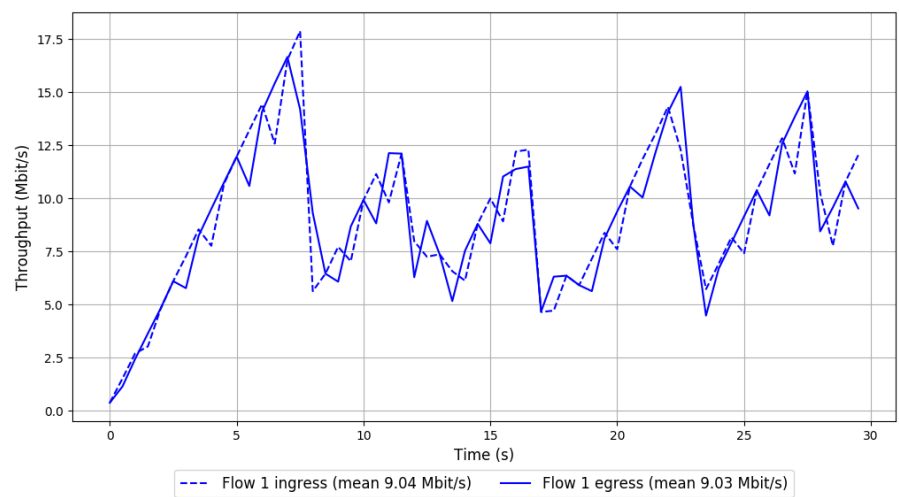
-- Flow 1:

Average throughput: 9.03 Mbit/s

95th percentile per-packet one-way delay: 54.510 ms

Loss rate: 0.46%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2017-11-30 11:29:05

End at: 2017-11-30 11:29:35

Below is generated by plot.py at 2017-11-30 13:53:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 8.39 Mbit/s

95th percentile per-packet one-way delay: 54.596 ms

Loss rate: 0.40%

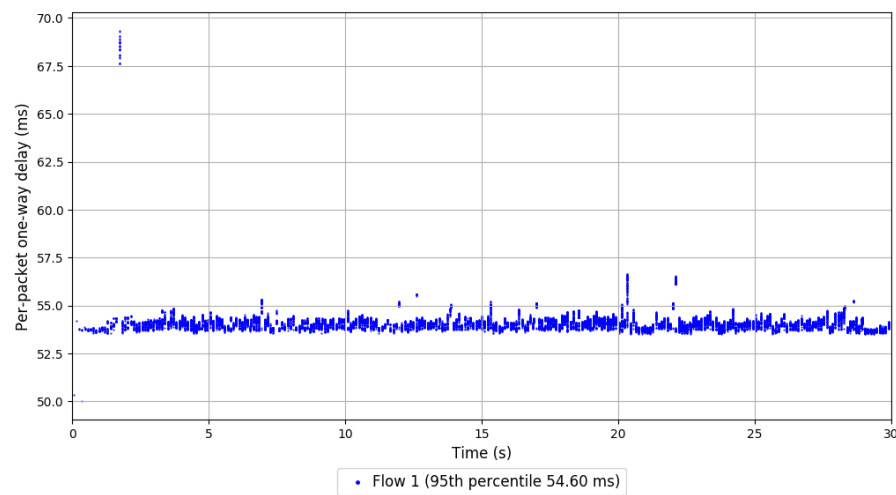
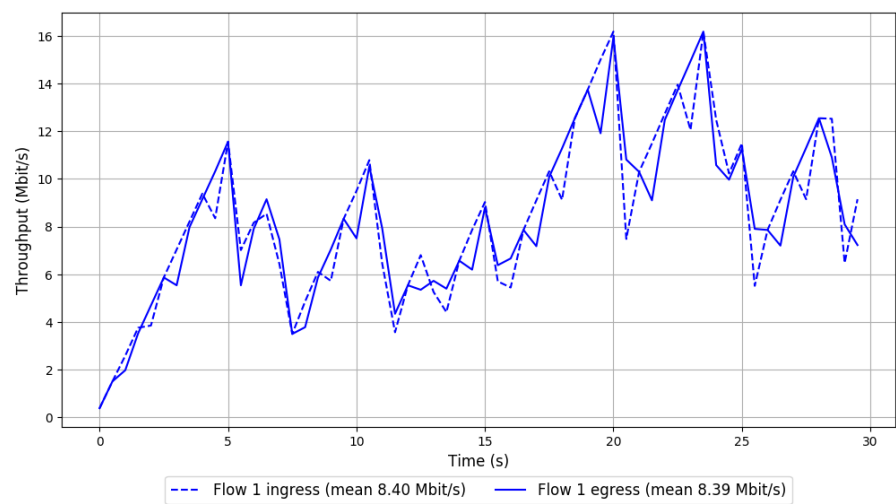
-- Flow 1:

Average throughput: 8.39 Mbit/s

95th percentile per-packet one-way delay: 54.596 ms

Loss rate: 0.40%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2017-11-30 11:39:28

End at: 2017-11-30 11:39:58

Below is generated by plot.py at 2017-11-30 13:53:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.12 Mbit/s

95th percentile per-packet one-way delay: 54.544 ms

Loss rate: 0.32%

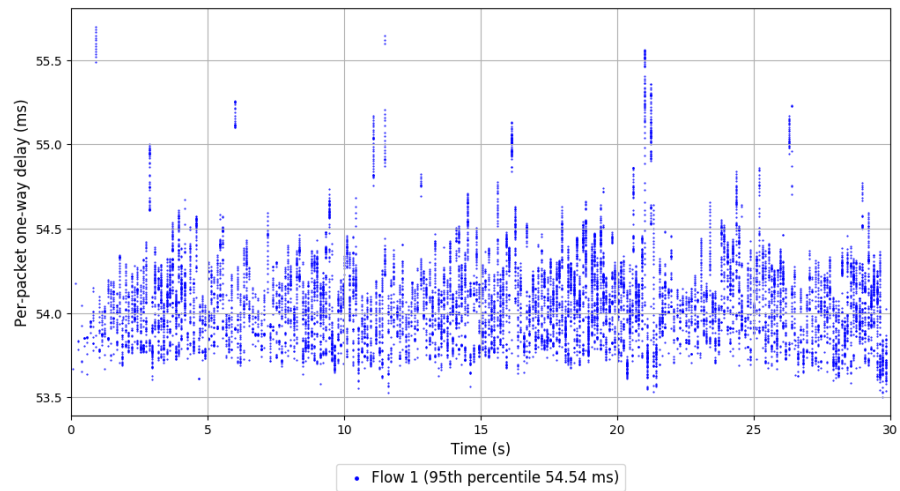
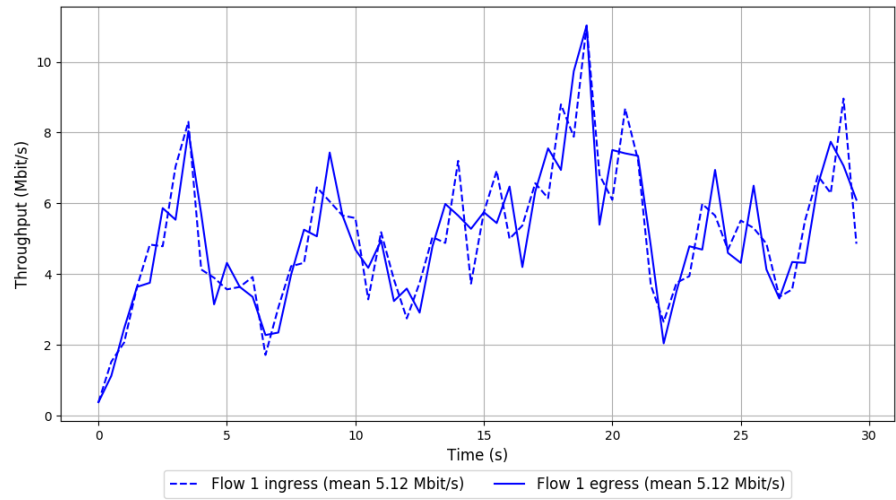
-- Flow 1:

Average throughput: 5.12 Mbit/s

95th percentile per-packet one-way delay: 54.544 ms

Loss rate: 0.32%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2017-11-30 11:49:39

End at: 2017-11-30 11:50:09

Below is generated by plot.py at 2017-11-30 13:53:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.68 Mbit/s

95th percentile per-packet one-way delay: 54.684 ms

Loss rate: 1.50%

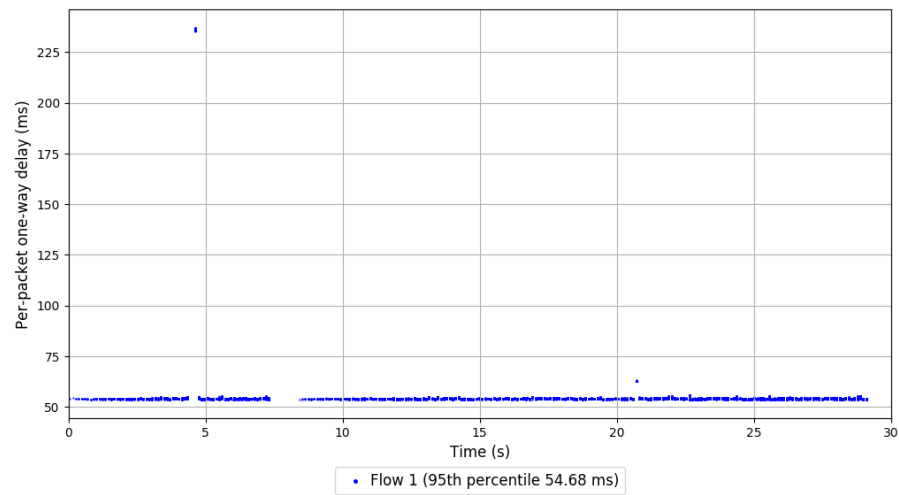
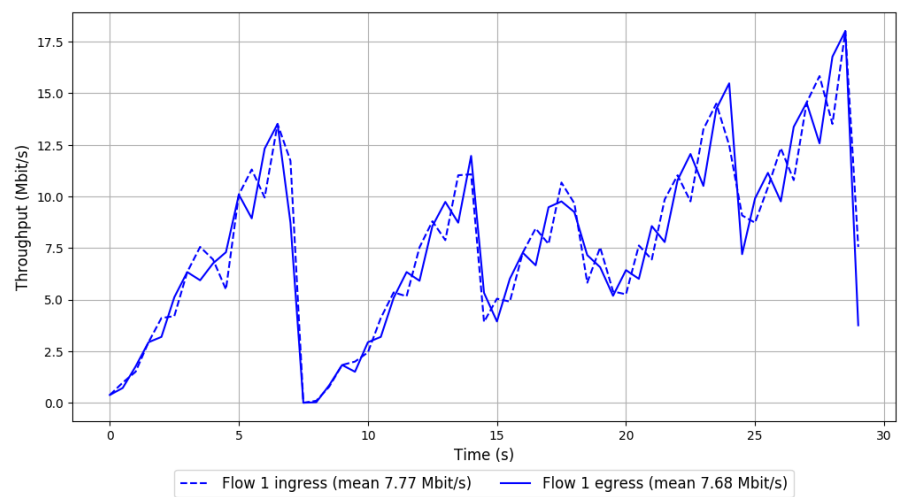
-- Flow 1:

Average throughput: 7.68 Mbit/s

95th percentile per-packet one-way delay: 54.684 ms

Loss rate: 1.50%

Run 10: Report of LEDBAT — Data Link

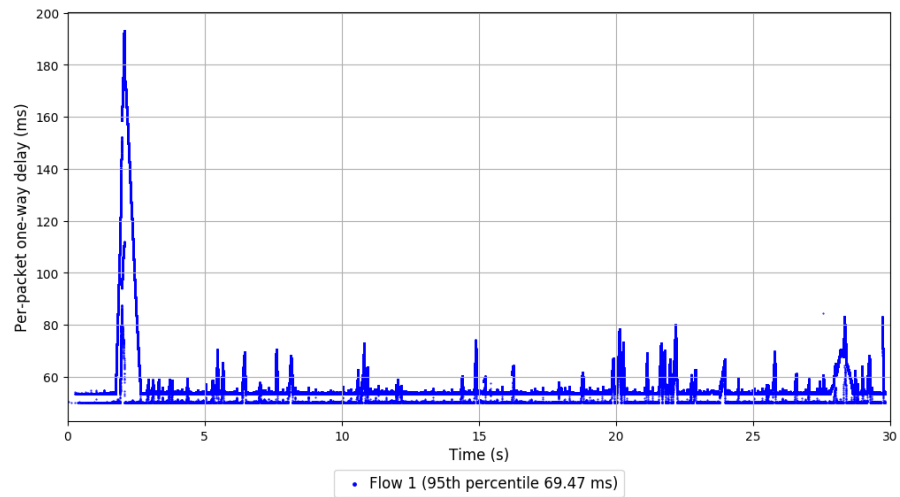
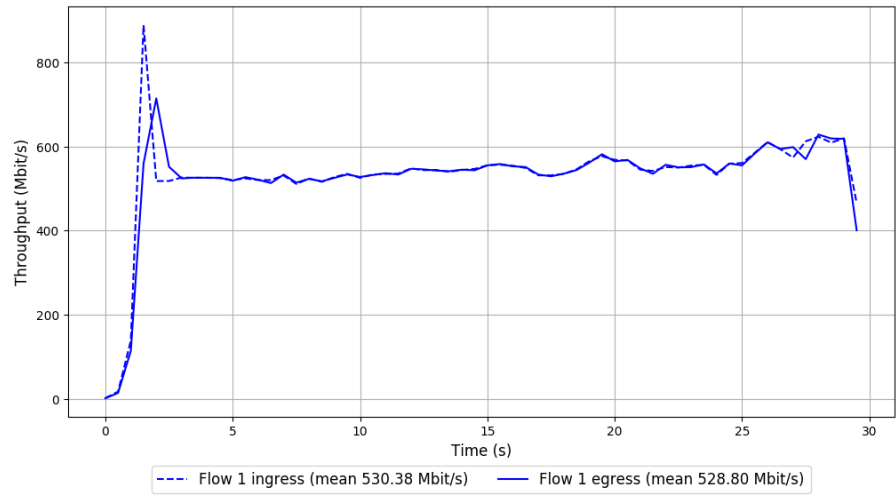


```
Run 1: Statistics of PCC

Start at: 2017-11-30 10:18:53
End at: 2017-11-30 10:19:23

# Below is generated by plot.py at 2017-11-30 14:01:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 528.80 Mbit/s
95th percentile per-packet one-way delay: 69.472 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 528.80 Mbit/s
95th percentile per-packet one-way delay: 69.472 ms
Loss rate: 0.65%
```

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2017-11-30 10:29:25

End at: 2017-11-30 10:29:55

Below is generated by plot.py at 2017-11-30 14:01:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 548.33 Mbit/s

95th percentile per-packet one-way delay: 164.555 ms

Loss rate: 2.19%

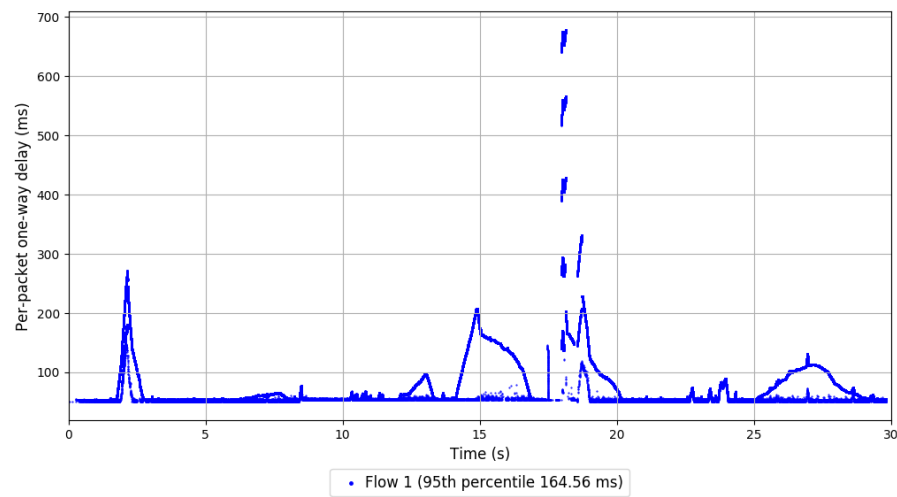
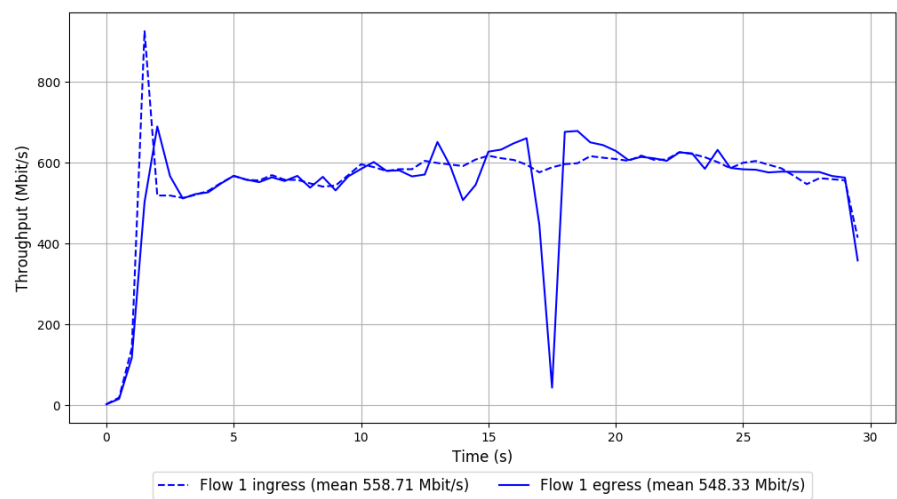
-- Flow 1:

Average throughput: 548.33 Mbit/s

95th percentile per-packet one-way delay: 164.555 ms

Loss rate: 2.19%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2017-11-30 10:40:00

End at: 2017-11-30 10:40:30

Below is generated by plot.py at 2017-11-30 14:01:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 521.93 Mbit/s

95th percentile per-packet one-way delay: 119.487 ms

Loss rate: 0.86%

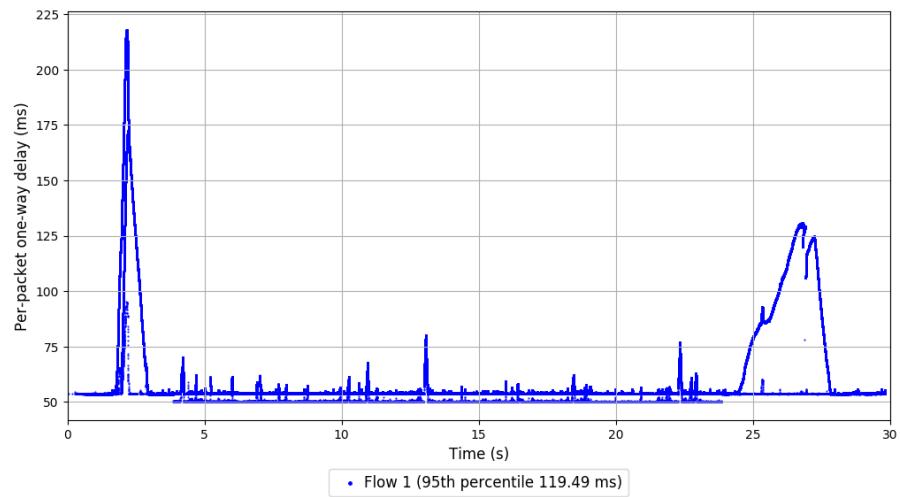
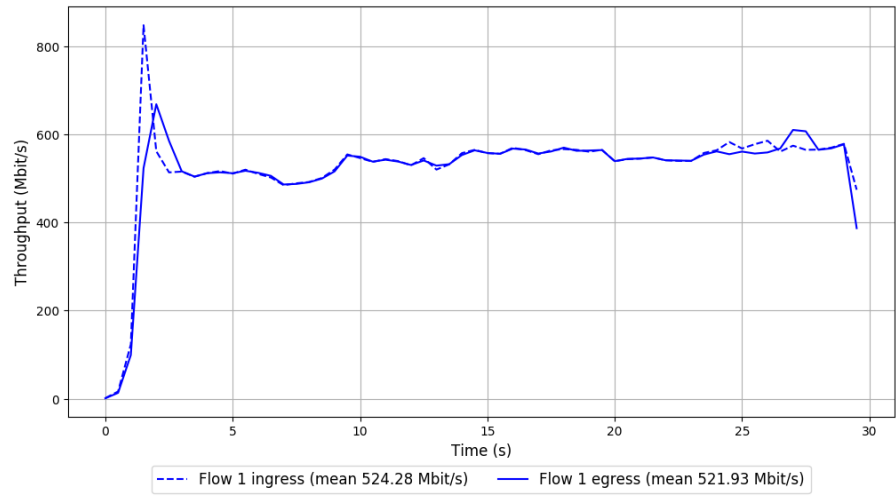
-- Flow 1:

Average throughput: 521.93 Mbit/s

95th percentile per-packet one-way delay: 119.487 ms

Loss rate: 0.86%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2017-11-30 10:50:18

End at: 2017-11-30 10:50:48

Below is generated by plot.py at 2017-11-30 14:01:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 560.23 Mbit/s

95th percentile per-packet one-way delay: 102.104 ms

Loss rate: 0.79%

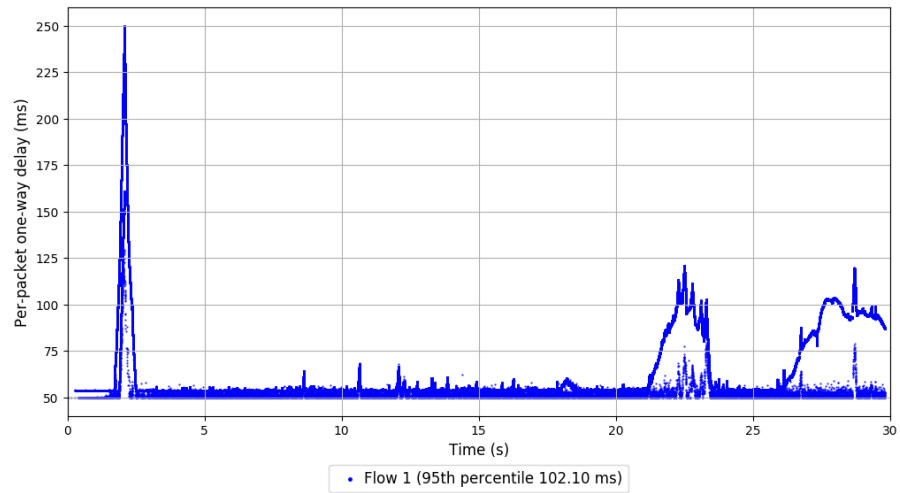
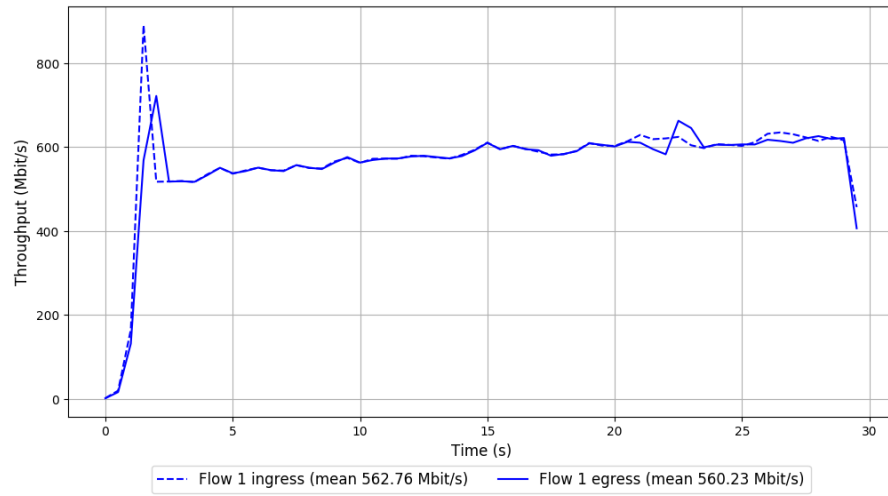
-- Flow 1:

Average throughput: 560.23 Mbit/s

95th percentile per-packet one-way delay: 102.104 ms

Loss rate: 0.79%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2017-11-30 11:00:43

End at: 2017-11-30 11:01:13

Below is generated by plot.py at 2017-11-30 14:02:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 579.31 Mbit/s

95th percentile per-packet one-way delay: 102.885 ms

Loss rate: 0.66%

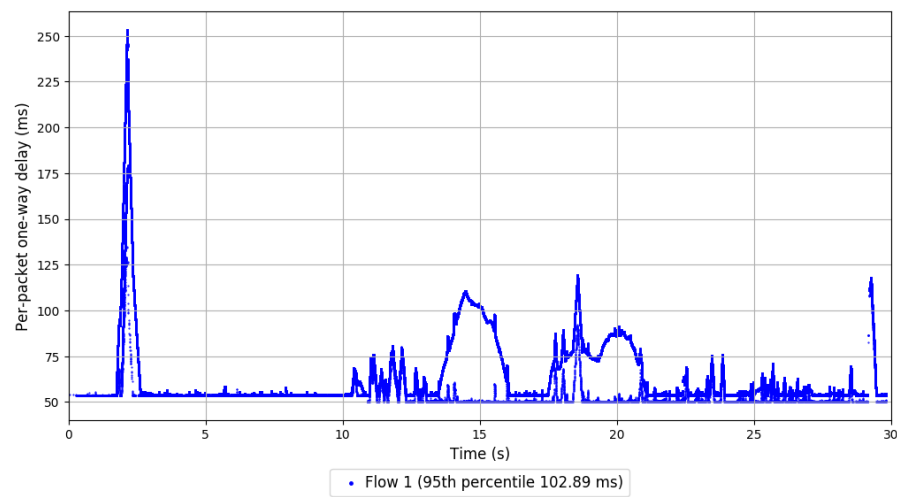
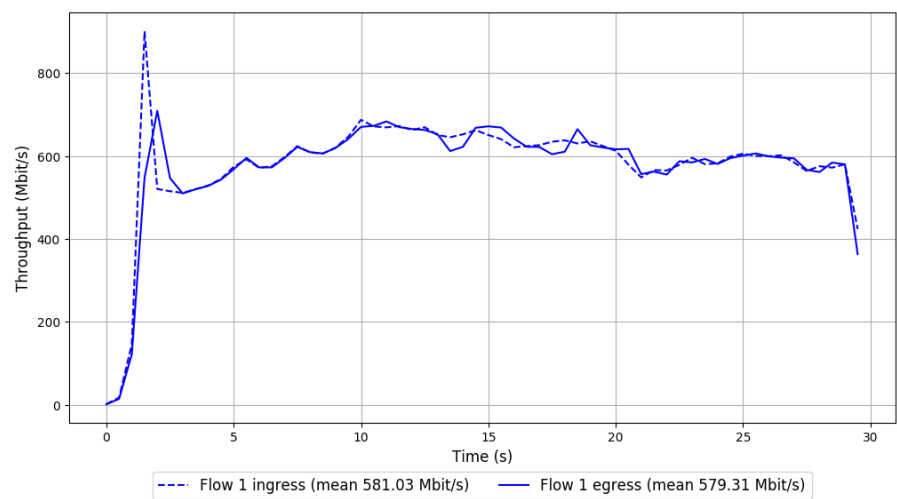
-- Flow 1:

Average throughput: 579.31 Mbit/s

95th percentile per-packet one-way delay: 102.885 ms

Loss rate: 0.66%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2017-11-30 11:11:16

End at: 2017-11-30 11:11:46

Below is generated by plot.py at 2017-11-30 14:02:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 556.91 Mbit/s

95th percentile per-packet one-way delay: 82.352 ms

Loss rate: 0.68%

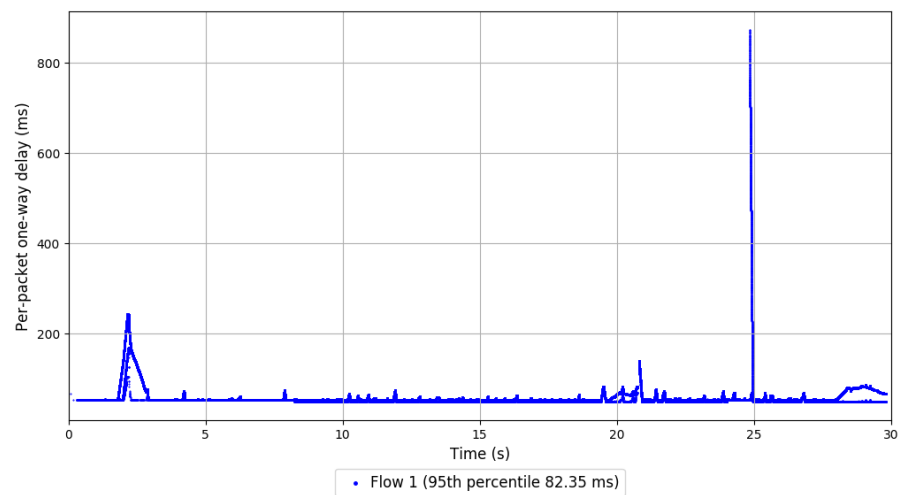
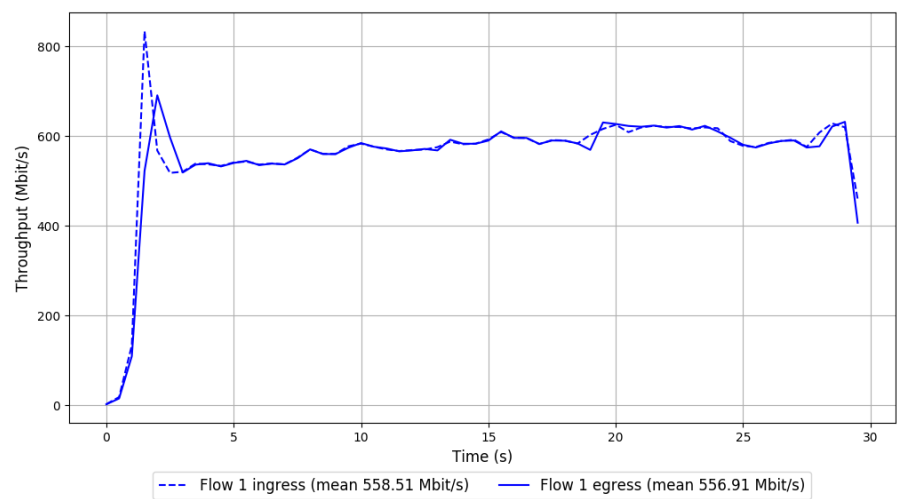
-- Flow 1:

Average throughput: 556.91 Mbit/s

95th percentile per-packet one-way delay: 82.352 ms

Loss rate: 0.68%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2017-11-30 11:21:48

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

Below is generated by plot.py at 2017-11-30 14:02:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 562.91 Mbit/s

95th percentile per-packet one-way delay: 170.592 ms

Loss rate: 3.02%

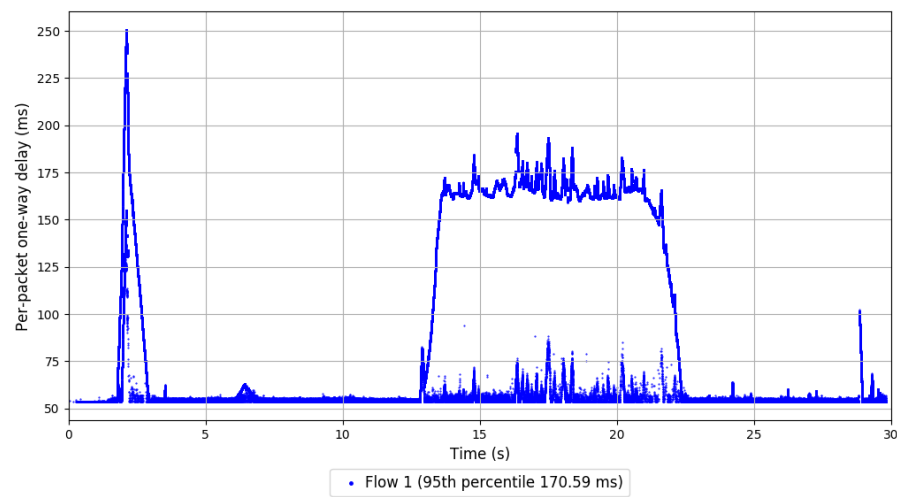
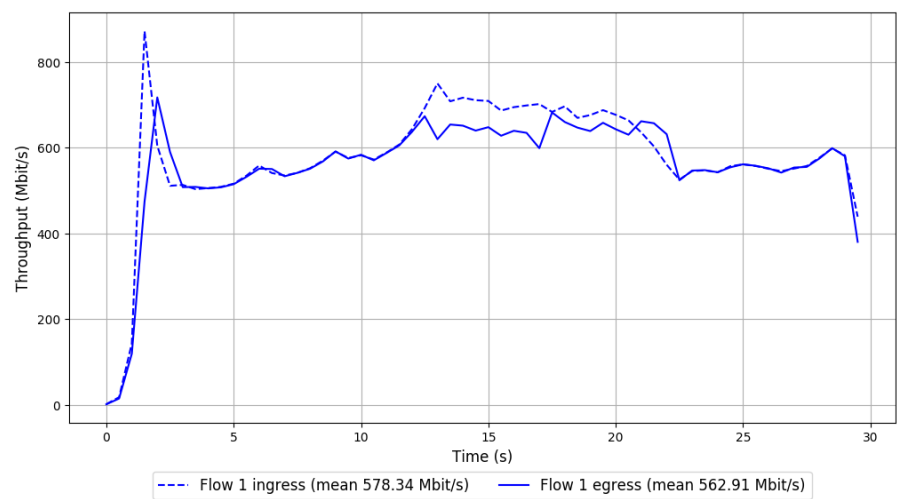
-- Flow 1:

Average throughput: 562.91 Mbit/s

95th percentile per-packet one-way delay: 170.592 ms

Loss rate: 3.02%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2017-11-30 11:32:27

End at: 2017-11-30 11:32:57

Below is generated by plot.py at 2017-11-30 14:04:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 561.13 Mbit/s

95th percentile per-packet one-way delay: 166.934 ms

Loss rate: 1.20%

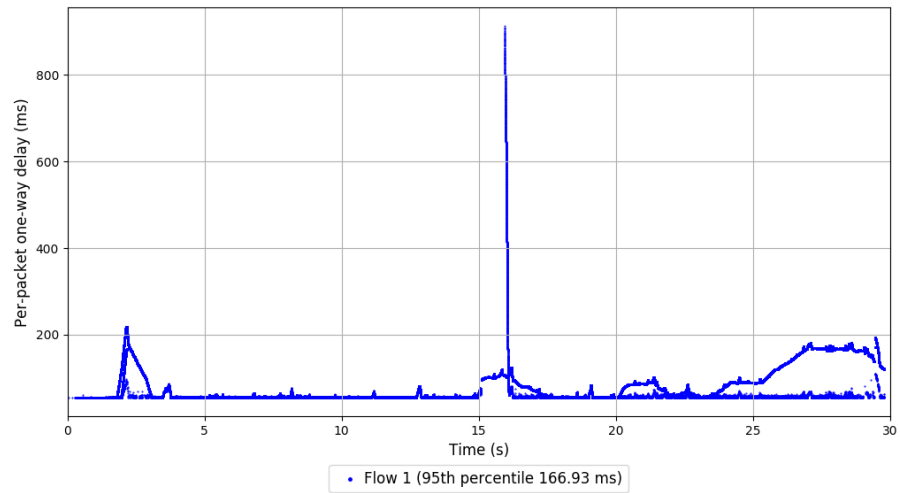
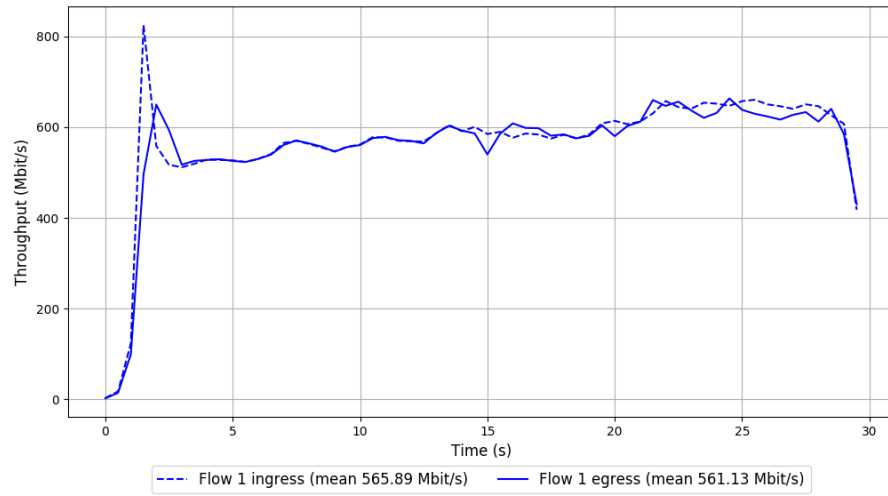
-- Flow 1:

Average throughput: 561.13 Mbit/s

95th percentile per-packet one-way delay: 166.934 ms

Loss rate: 1.20%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2017-11-30 11:42:50

End at: 2017-11-30 11:43:20

Below is generated by plot.py at 2017-11-30 14:10:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 550.62 Mbit/s

95th percentile per-packet one-way delay: 181.535 ms

Loss rate: 1.68%

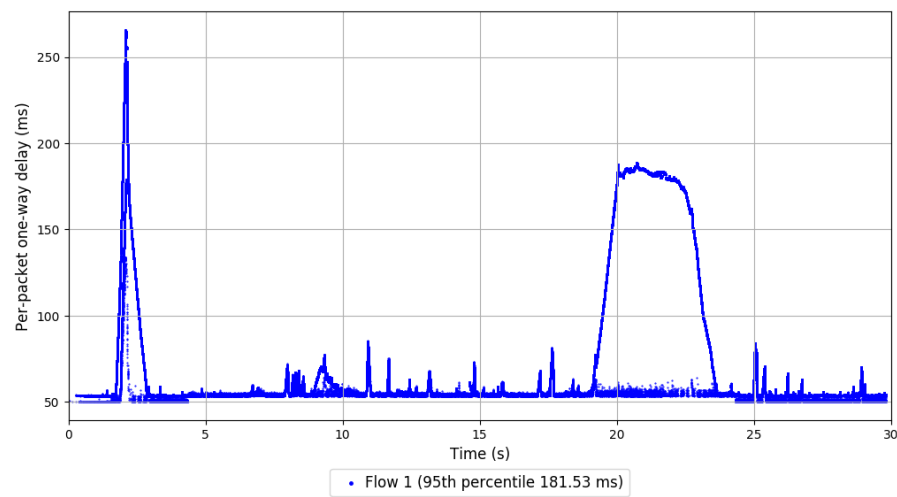
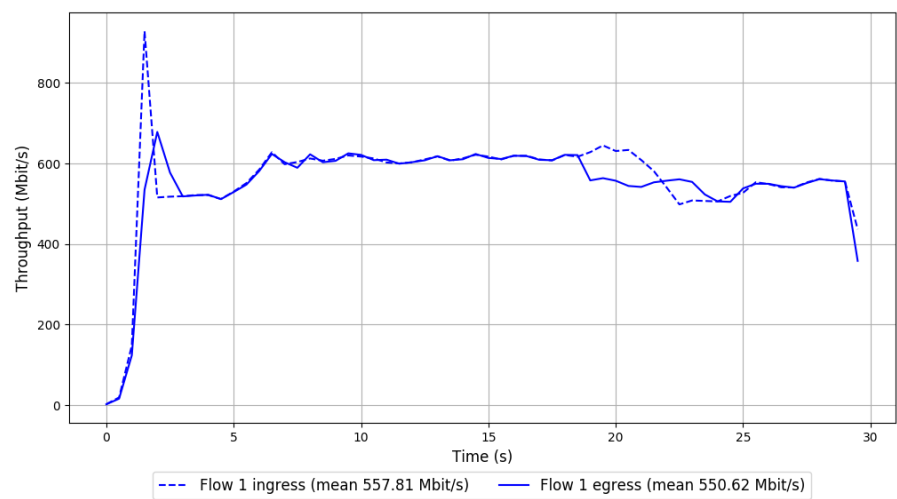
-- Flow 1:

Average throughput: 550.62 Mbit/s

95th percentile per-packet one-way delay: 181.535 ms

Loss rate: 1.68%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2017-11-30 11:53:05

End at: 2017-11-30 11:53:35

Below is generated by plot.py at 2017-11-30 14:10:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 544.28 Mbit/s

95th percentile per-packet one-way delay: 184.878 ms

Loss rate: 2.74%

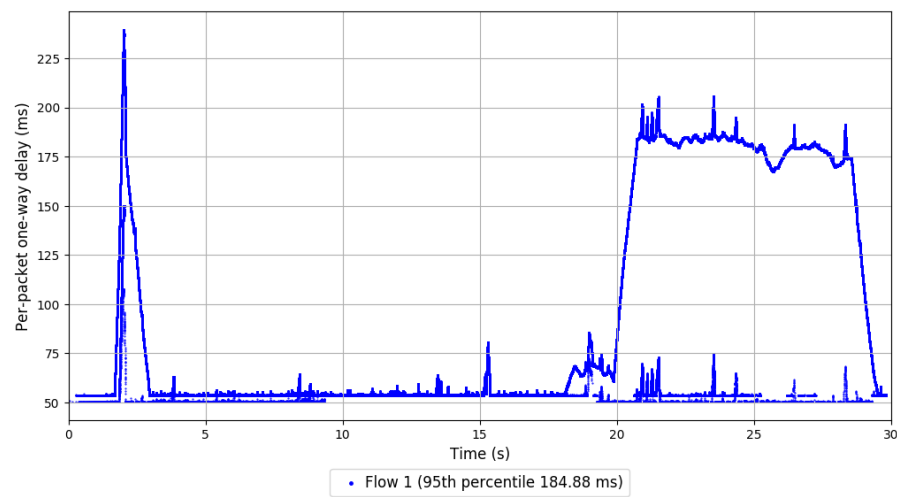
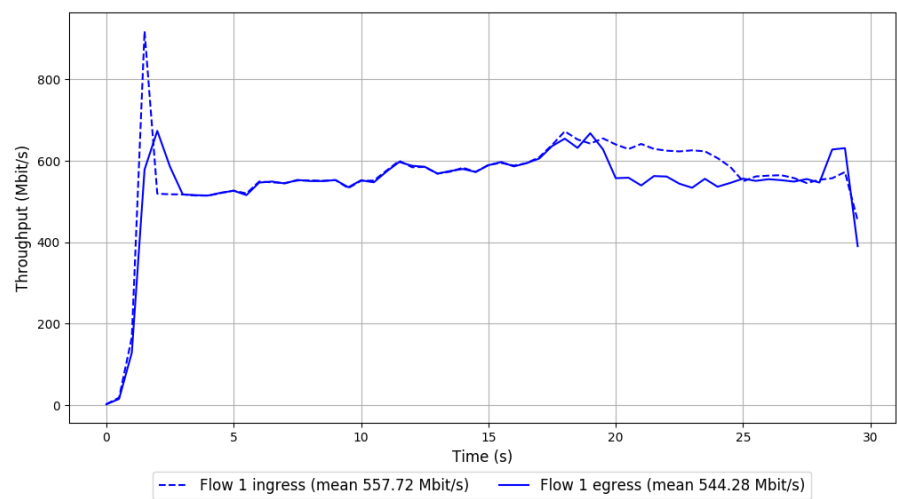
-- Flow 1:

Average throughput: 544.28 Mbit/s

95th percentile per-packet one-way delay: 184.878 ms

Loss rate: 2.74%

Run 10: Report of PCC — Data Link

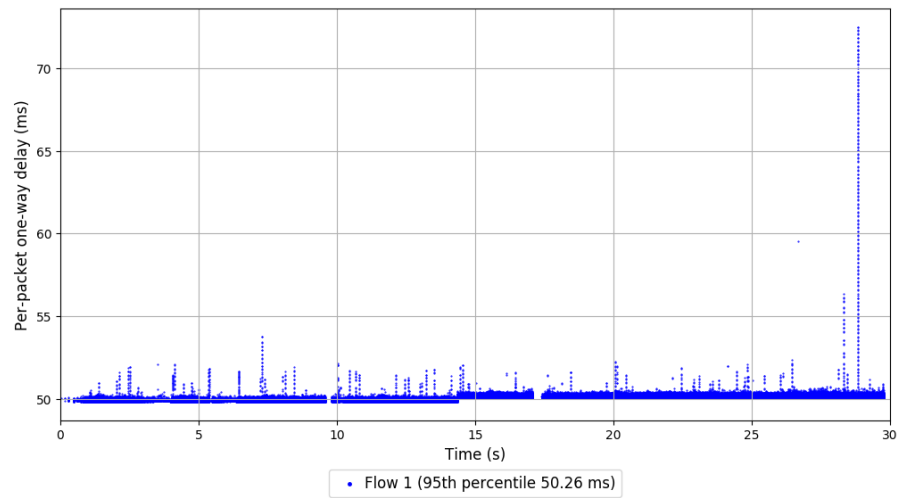
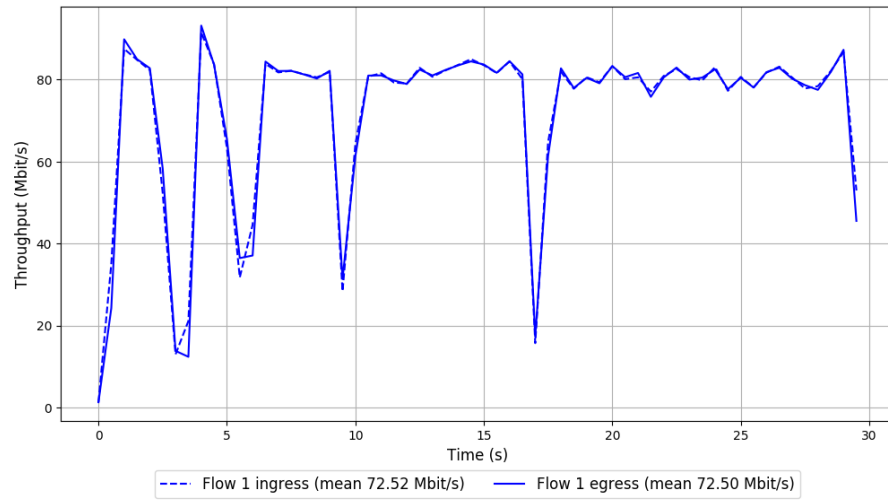


```
Run 1: Statistics of QUIC Cubic

Start at: 2017-11-30 10:16:09
End at: 2017-11-30 10:16:40

# Below is generated by plot.py at 2017-11-30 14:10:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 72.50 Mbit/s
95th percentile per-packet one-way delay: 50.257 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 72.50 Mbit/s
95th percentile per-packet one-way delay: 50.257 ms
Loss rate: 0.37%
```

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2017-11-30 10:26:44

End at: 2017-11-30 10:27:14

Below is generated by plot.py at 2017-11-30 14:10:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 24.14 Mbit/s

95th percentile per-packet one-way delay: 53.640 ms

Loss rate: 0.79%

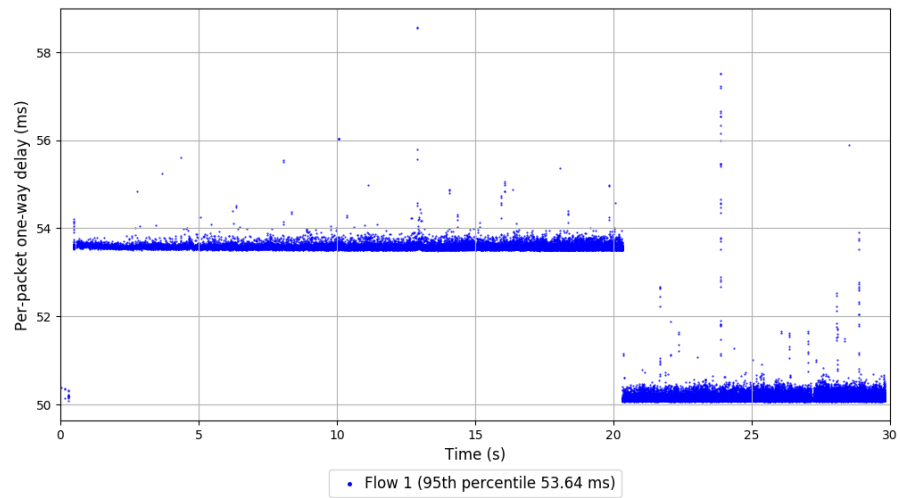
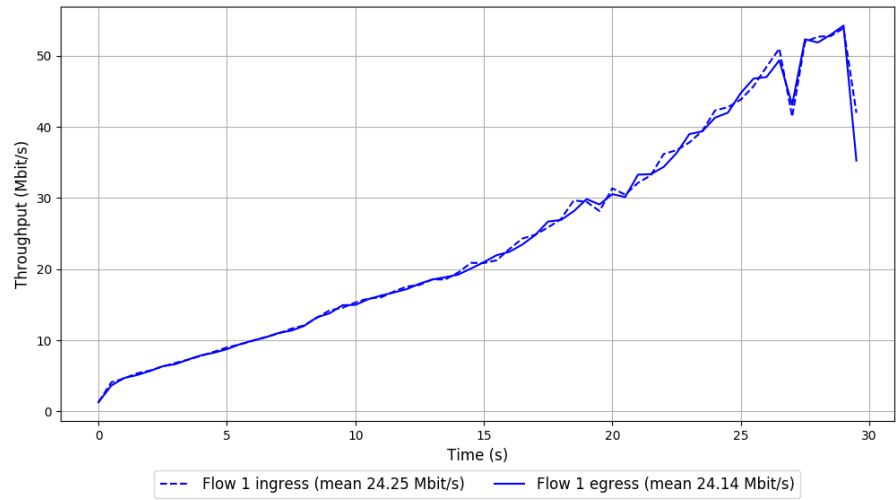
-- Flow 1:

Average throughput: 24.14 Mbit/s

95th percentile per-packet one-way delay: 53.640 ms

Loss rate: 0.79%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2017-11-30 10:37:19

End at: 2017-11-30 10:37:49

Below is generated by plot.py at 2017-11-30 14:10:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 60.31 Mbit/s

95th percentile per-packet one-way delay: 53.559 ms

Loss rate: 0.41%

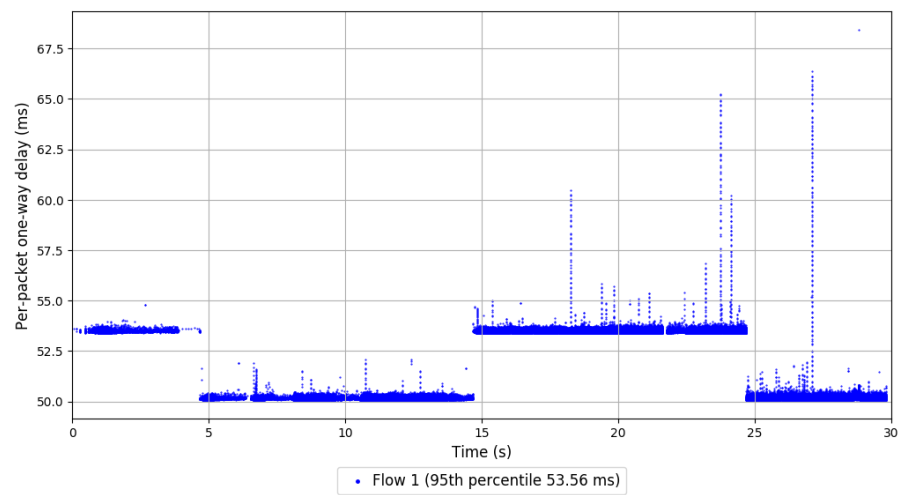
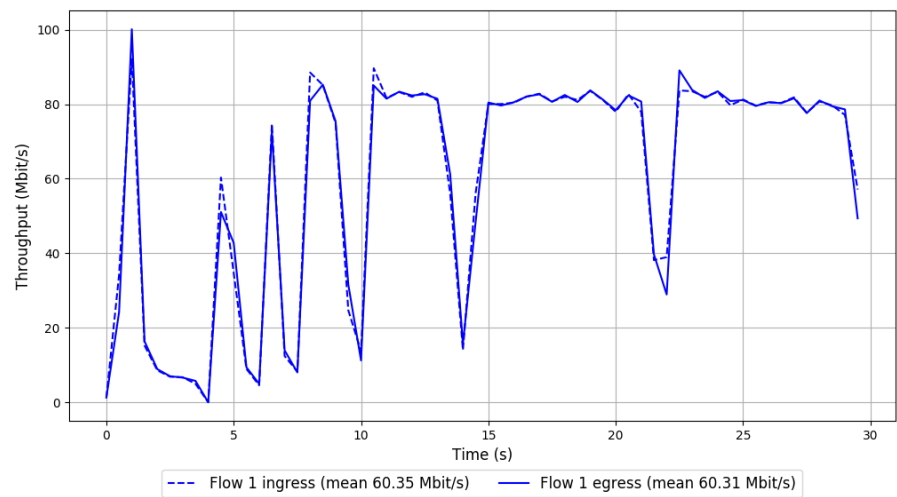
-- Flow 1:

Average throughput: 60.31 Mbit/s

95th percentile per-packet one-way delay: 53.559 ms

Loss rate: 0.41%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2017-11-30 10:47:31

End at: 2017-11-30 10:48:01

Below is generated by plot.py at 2017-11-30 14:10:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 58.25 Mbit/s

95th percentile per-packet one-way delay: 53.632 ms

Loss rate: 0.52%

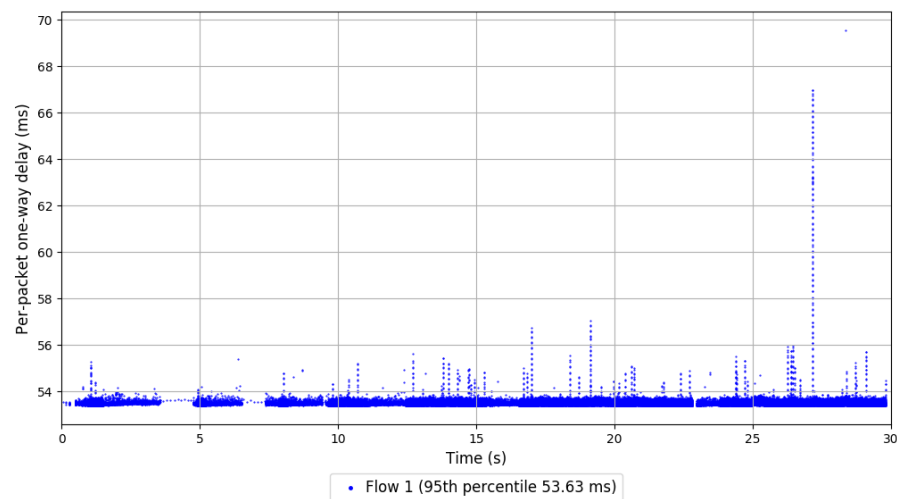
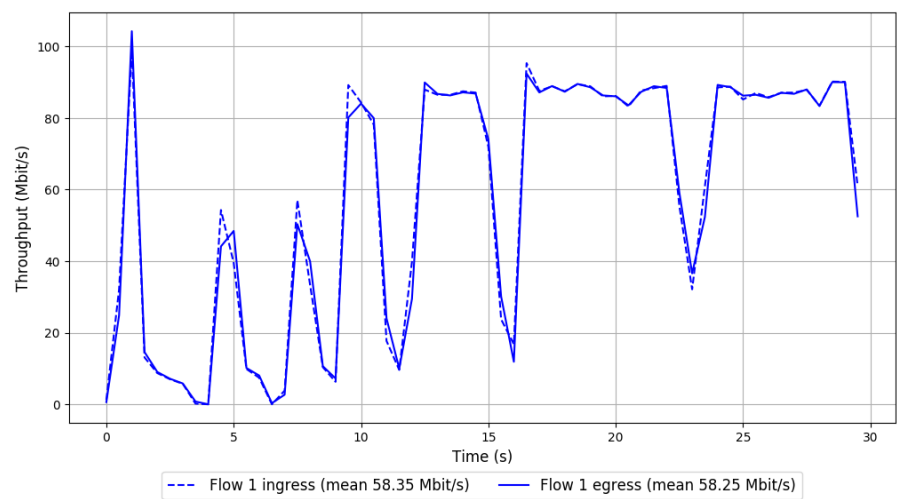
-- Flow 1:

Average throughput: 58.25 Mbit/s

95th percentile per-packet one-way delay: 53.632 ms

Loss rate: 0.52%

Run 4: Report of QUIC Cubic — Data Link

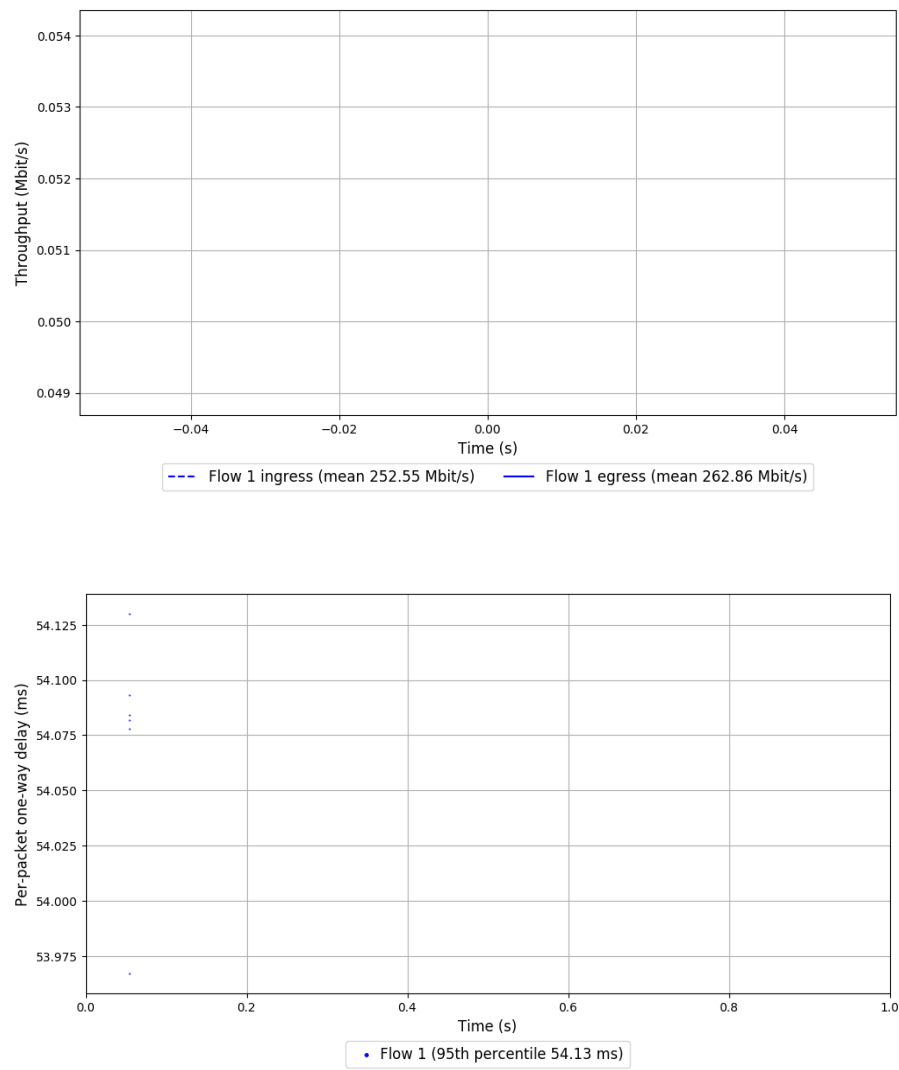


Run 5: Statistics of QUIC Cubic

Start at: 2017-11-30 10:58:02

End at: 2017-11-30 10:58:32

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2017-11-30 11:08:31

End at: 2017-11-30 11:09:01

Below is generated by plot.py at 2017-11-30 14:10:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 54.05 Mbit/s

95th percentile per-packet one-way delay: 53.761 ms

Loss rate: 0.55%

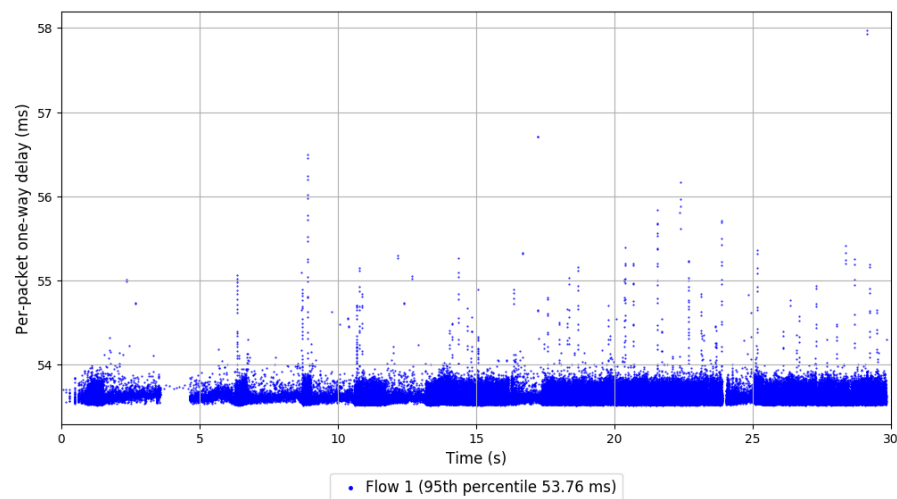
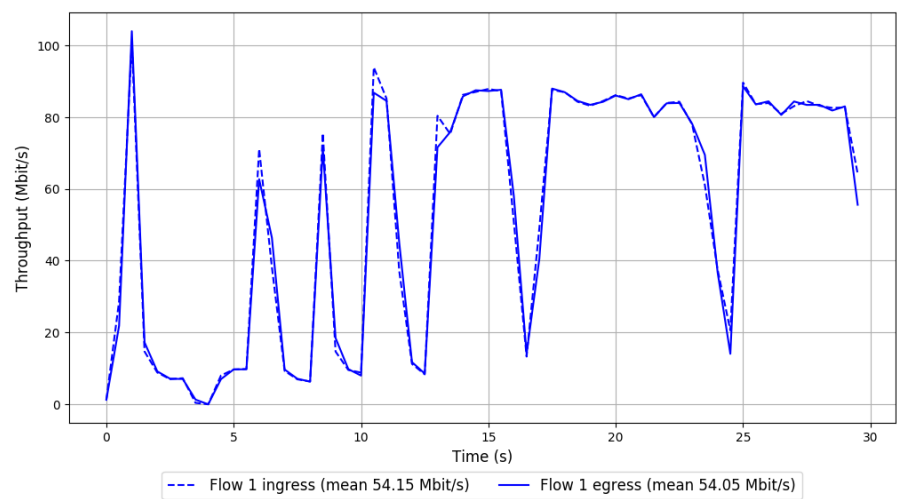
-- Flow 1:

Average throughput: 54.05 Mbit/s

95th percentile per-packet one-way delay: 53.761 ms

Loss rate: 0.55%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2017-11-30 11:19:04

End at: 2017-11-30 11:19:34

Below is generated by plot.py at 2017-11-30 14:10:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 58.82 Mbit/s

95th percentile per-packet one-way delay: 53.708 ms

Loss rate: 0.48%

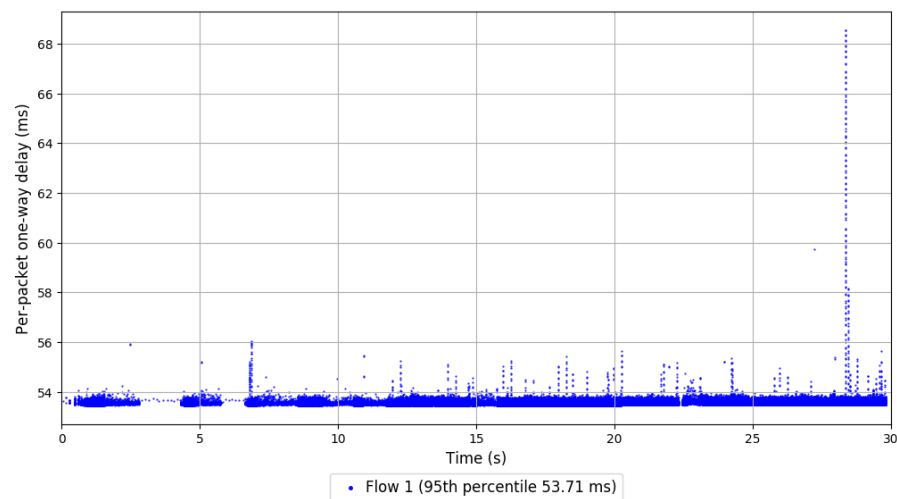
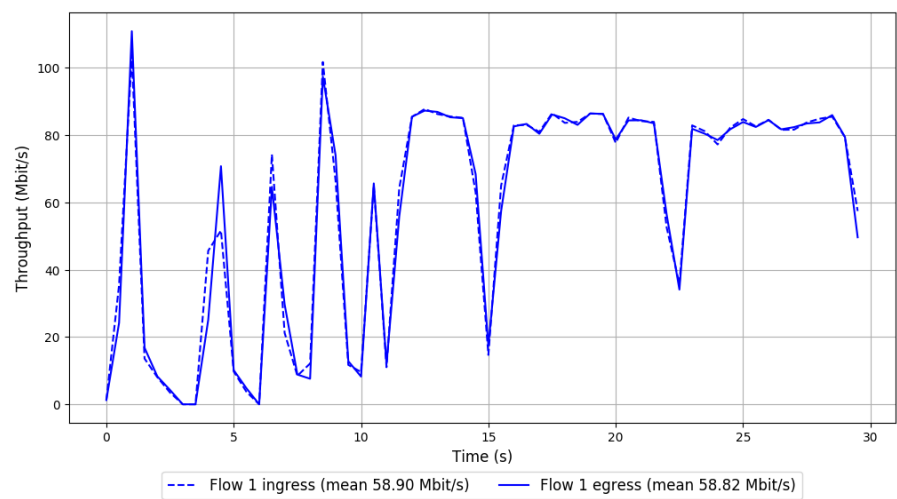
-- Flow 1:

Average throughput: 58.82 Mbit/s

95th percentile per-packet one-way delay: 53.708 ms

Loss rate: 0.48%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2017-11-30 11:29:43

End at: 2017-11-30 11:30:13

Below is generated by plot.py at 2017-11-30 14:10:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 59.52 Mbit/s

95th percentile per-packet one-way delay: 53.729 ms

Loss rate: 0.59%

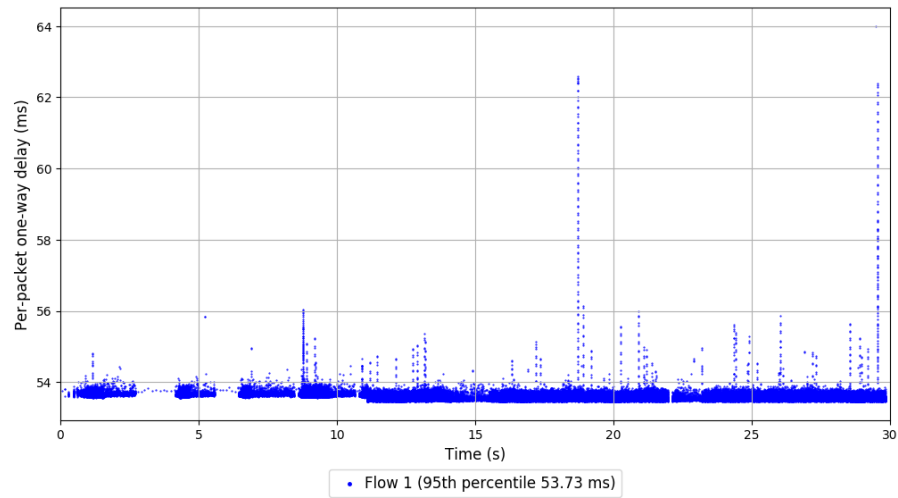
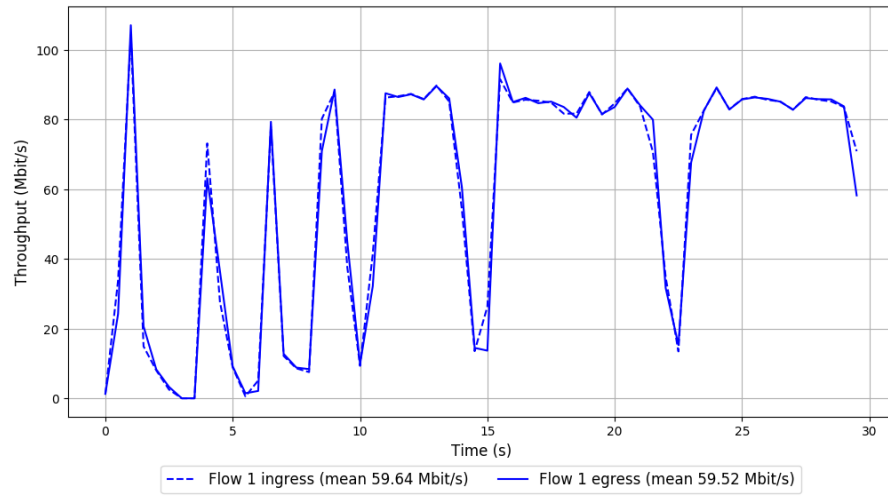
-- Flow 1:

Average throughput: 59.52 Mbit/s

95th percentile per-packet one-way delay: 53.729 ms

Loss rate: 0.59%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2017-11-30 11:40:05

End at: 2017-11-30 11:40:35

Below is generated by plot.py at 2017-11-30 14:10:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 54.86 Mbit/s

95th percentile per-packet one-way delay: 53.670 ms

Loss rate: 0.54%

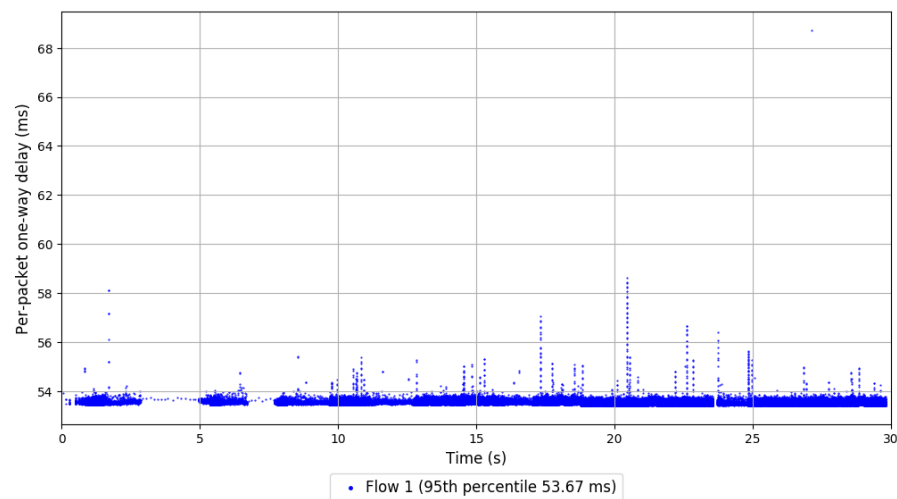
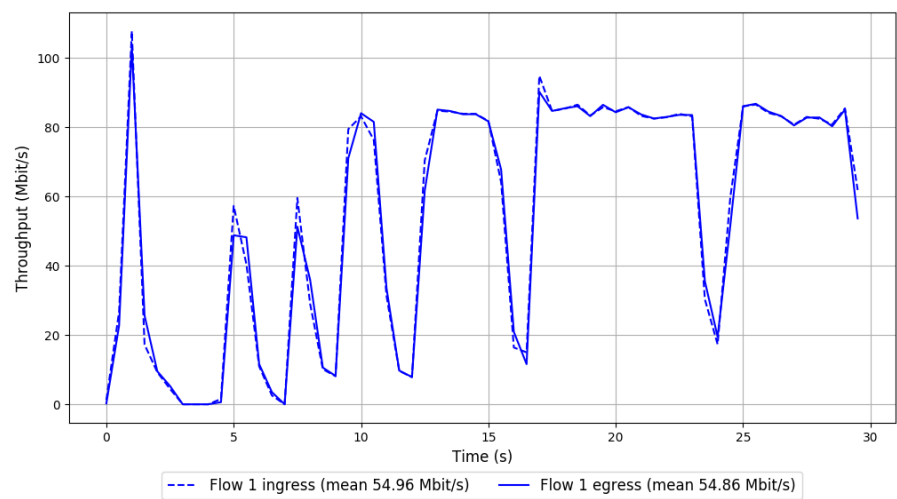
-- Flow 1:

Average throughput: 54.86 Mbit/s

95th percentile per-packet one-way delay: 53.670 ms

Loss rate: 0.54%

Run 9: Report of QUIC Cubic — Data Link

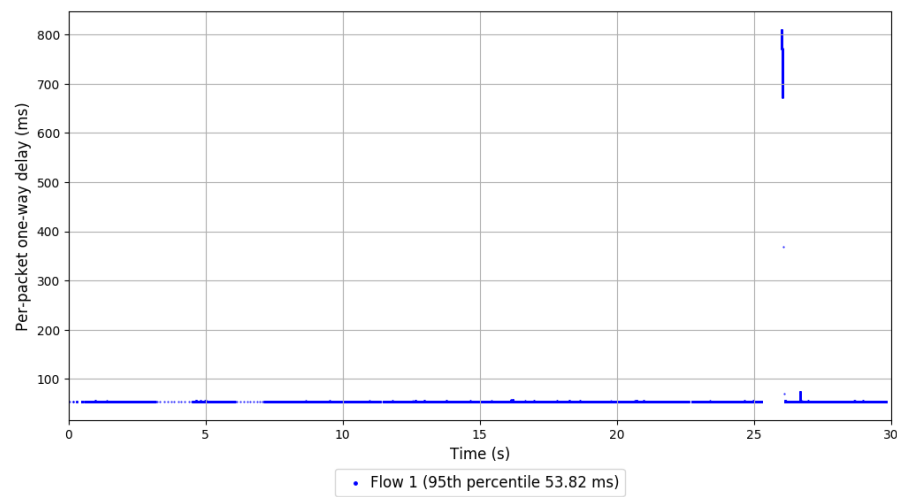
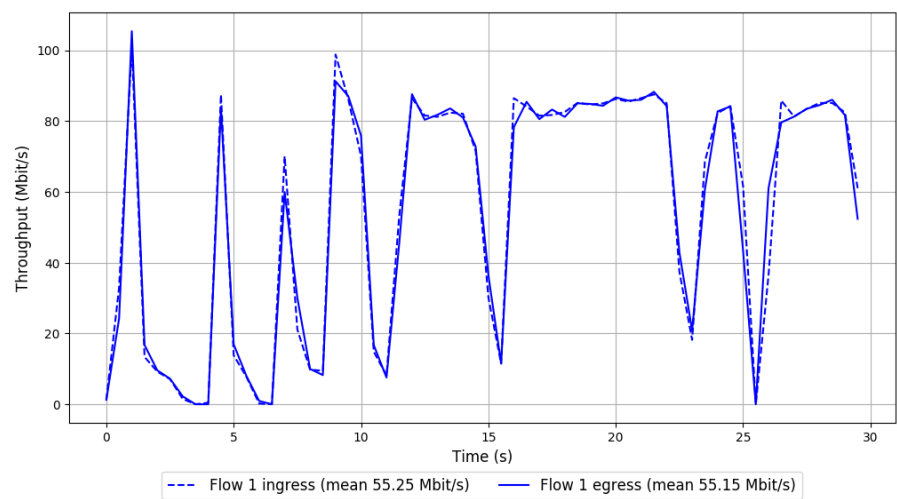


```
Run 10: Statistics of QUIC Cubic

Start at: 2017-11-30 11:50:17
End at: 2017-11-30 11:50:47

# Below is generated by plot.py at 2017-11-30 14:10:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 55.15 Mbit/s
95th percentile per-packet one-way delay: 53.816 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 55.15 Mbit/s
95th percentile per-packet one-way delay: 53.816 ms
Loss rate: 0.54%
```

Run 10: Report of QUIC Cubic — Data Link

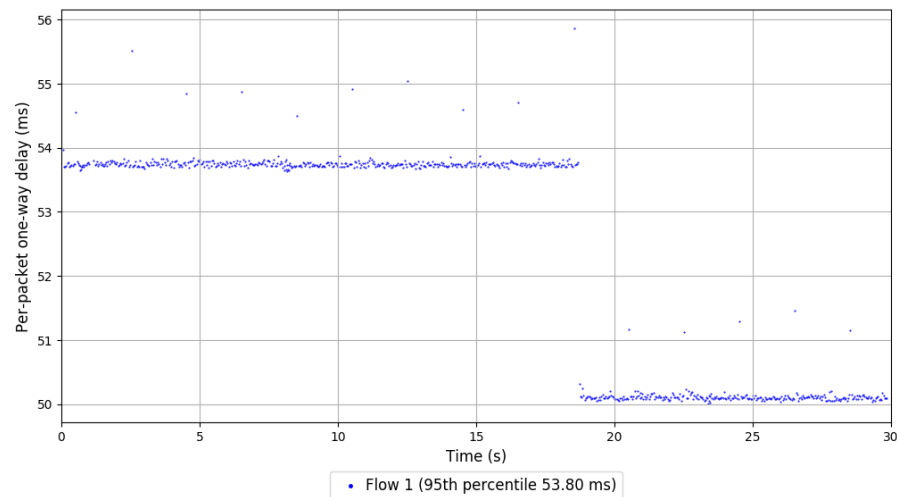
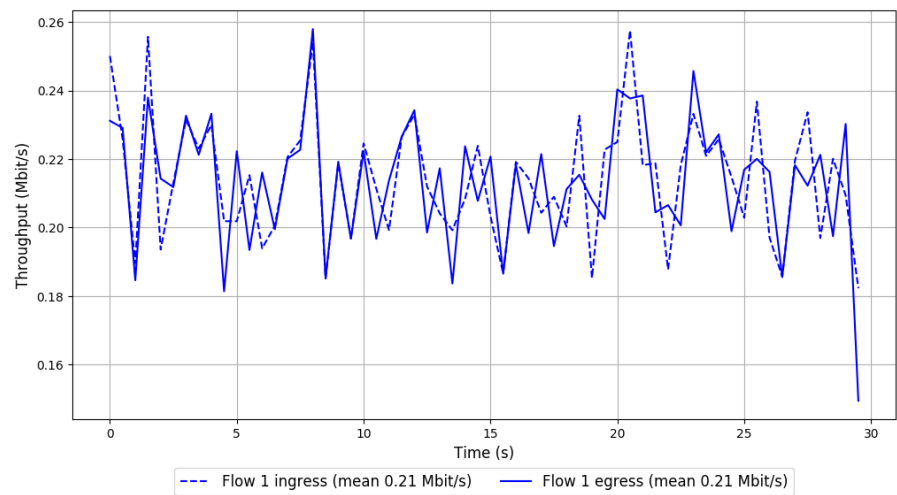


```
Run 1: Statistics of SCReAM

Start at: 2017-11-30 10:20:45
End at: 2017-11-30 10:21:15

# Below is generated by plot.py at 2017-11-30 14:10:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.801 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.801 ms
Loss rate: 0.38%
```

Run 1: Report of SReAM — Data Link

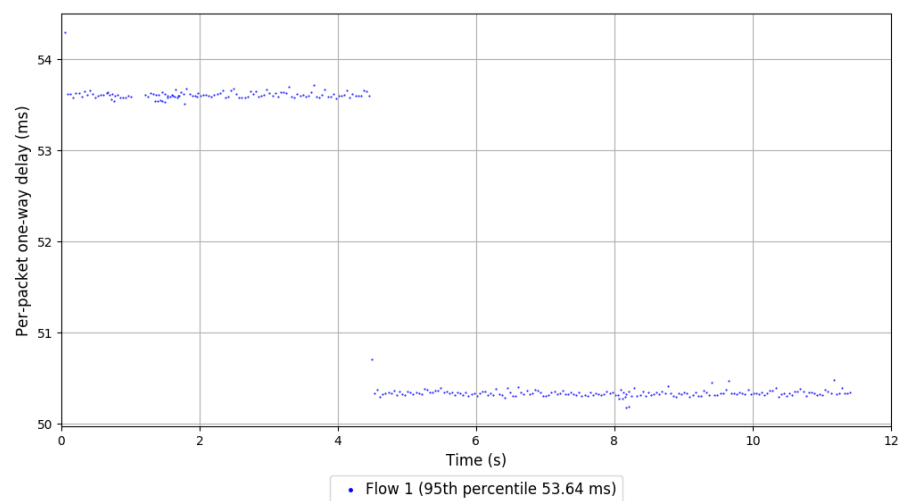
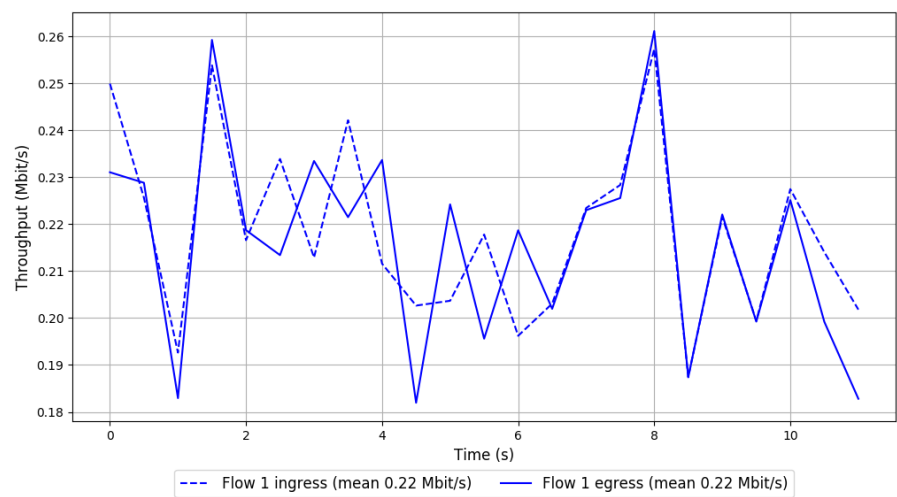


Run 2: Statistics of SReAM

Start at: 2017-11-30 10:31:21

End at: 2017-11-30 10:31:51

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2017-11-30 10:41:48

End at: 2017-11-30 10:42:18

Below is generated by plot.py at 2017-11-30 14:10:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.748 ms

Loss rate: 0.38%

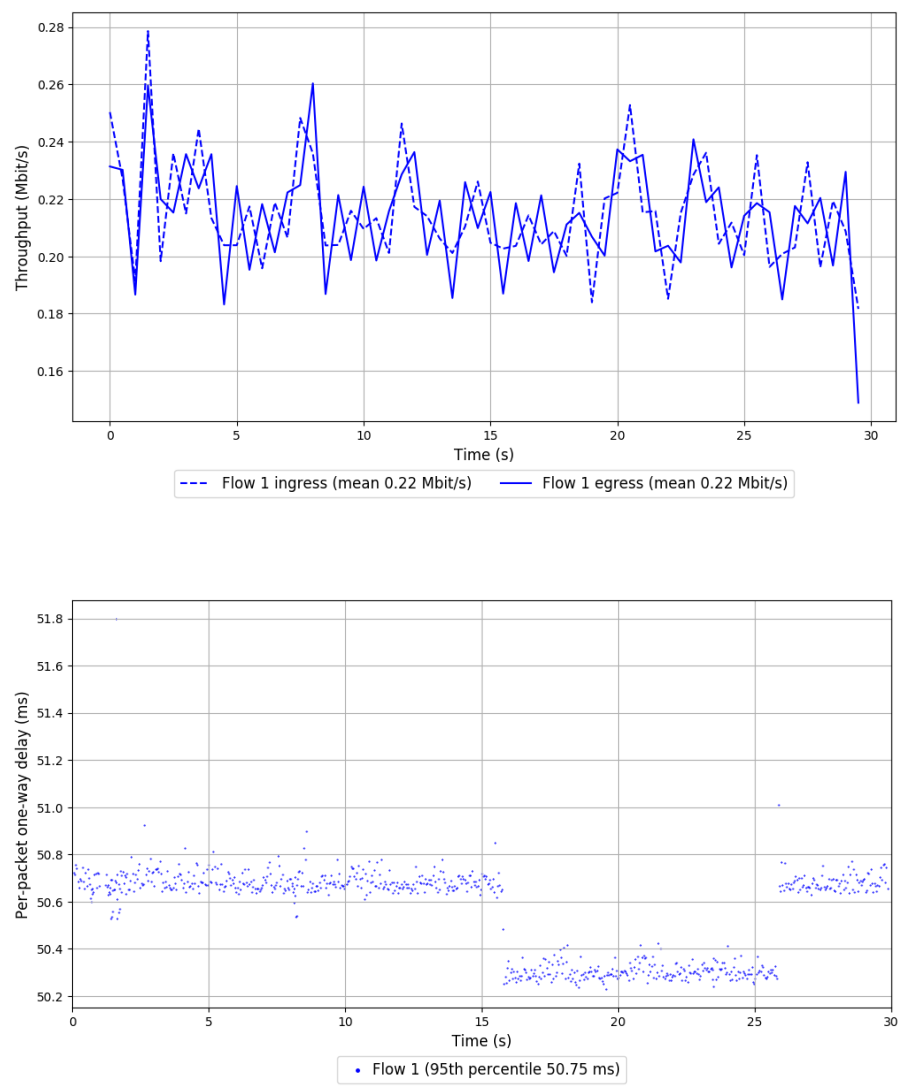
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.748 ms

Loss rate: 0.38%

Run 3: Report of SReAM — Data Link

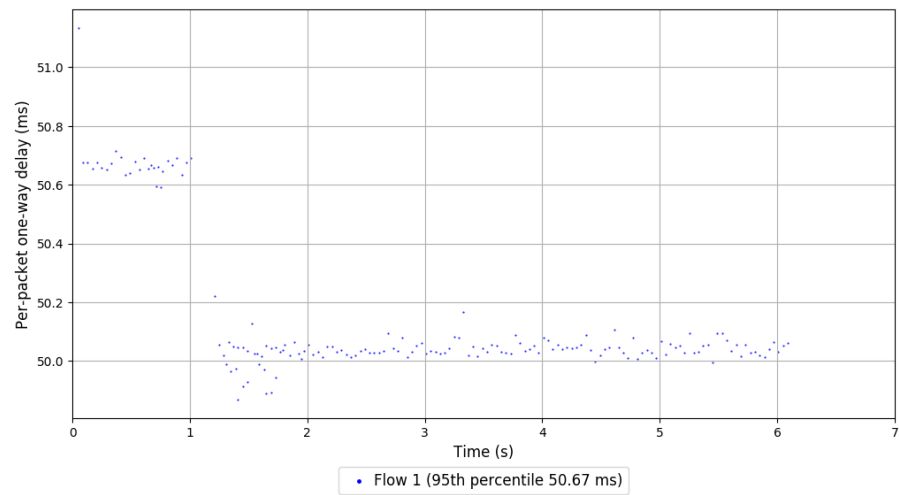
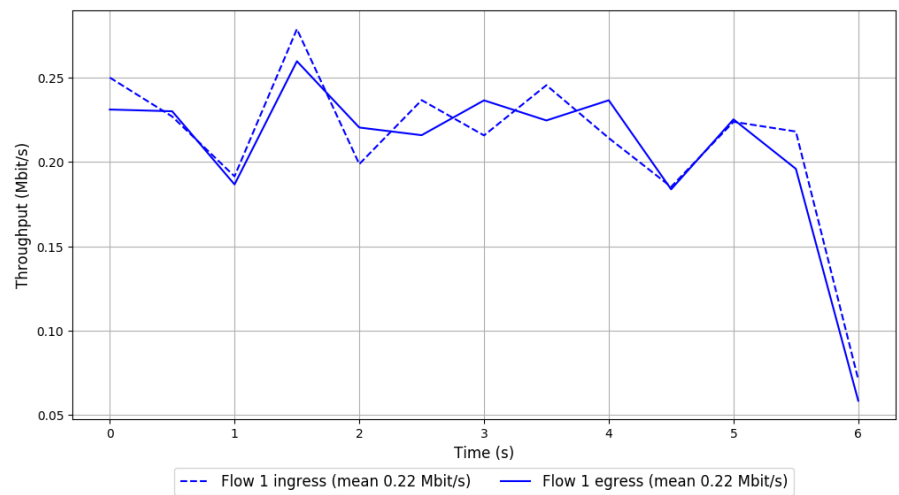


Run 4: Statistics of SReAM

Start at: 2017-11-30 10:52:09

End at: 2017-11-30 10:52:39

Run 4: Report of SReAM — Data Link

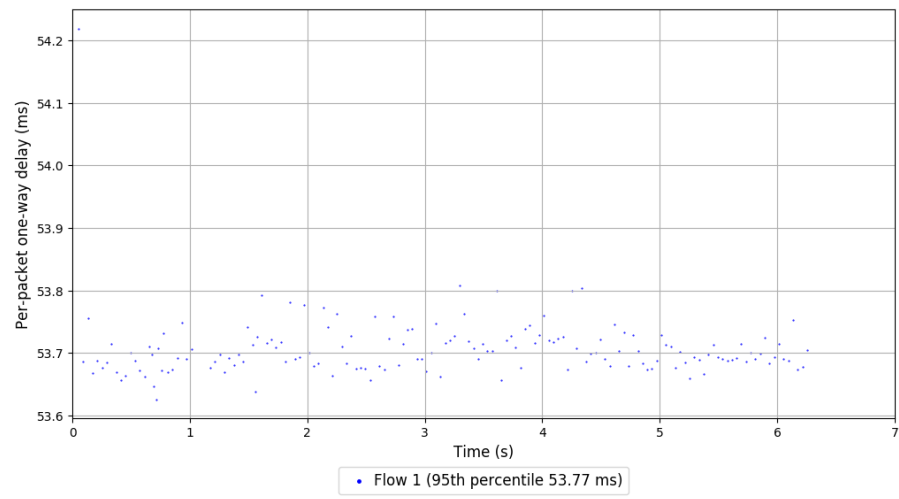
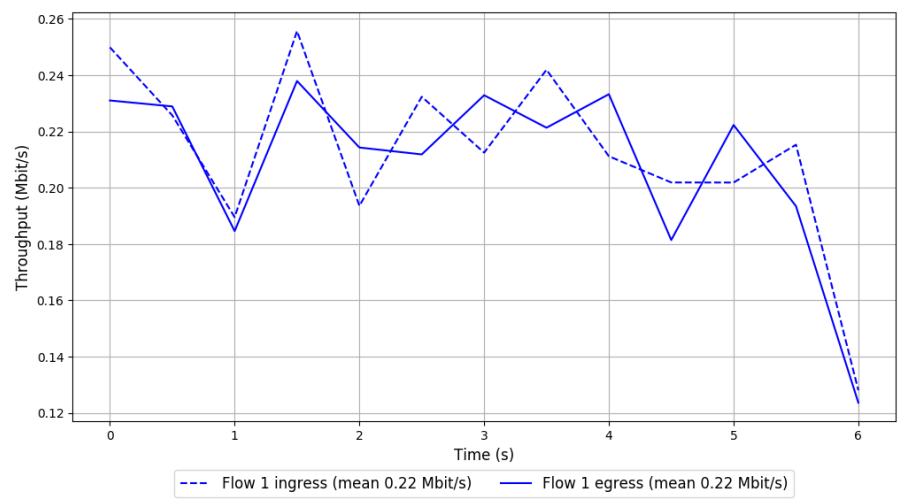


Run 5: Statistics of SCReAM

Start at: 2017-11-30 11:02:34

End at: 2017-11-30 11:03:04

Run 5: Report of SReAM — Data Link

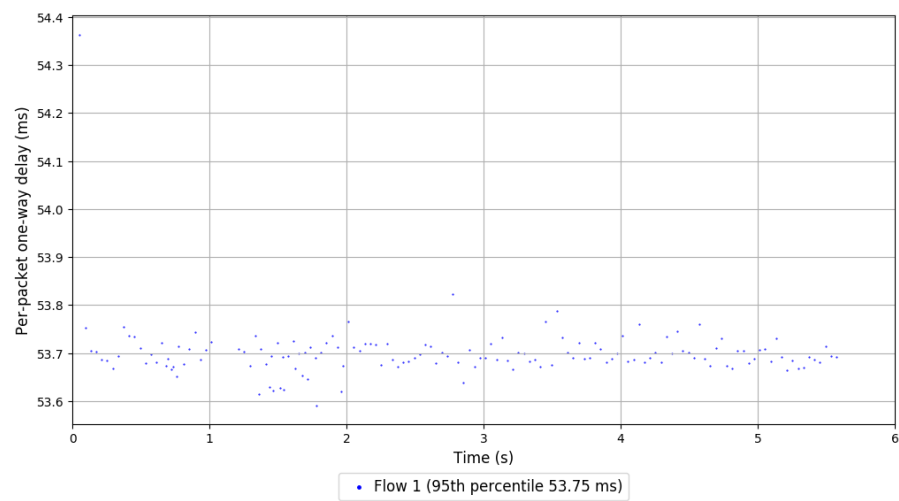
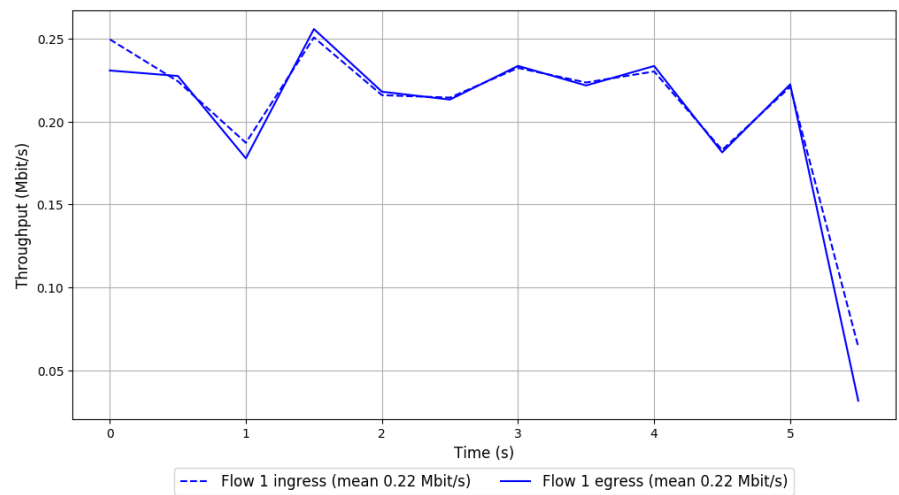


Run 6: Statistics of SReAM

Start at: 2017-11-30 11:13:08

End at: 2017-11-30 11:13:38

Run 6: Report of SReAM — Data Link

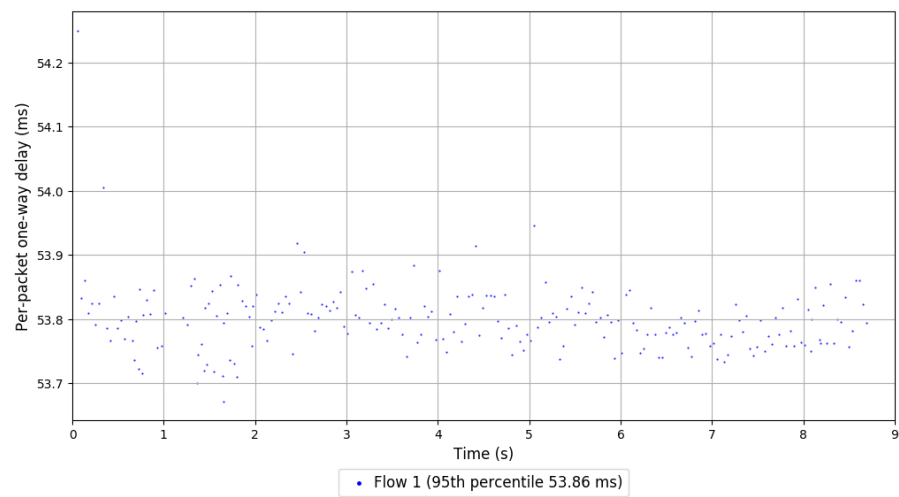
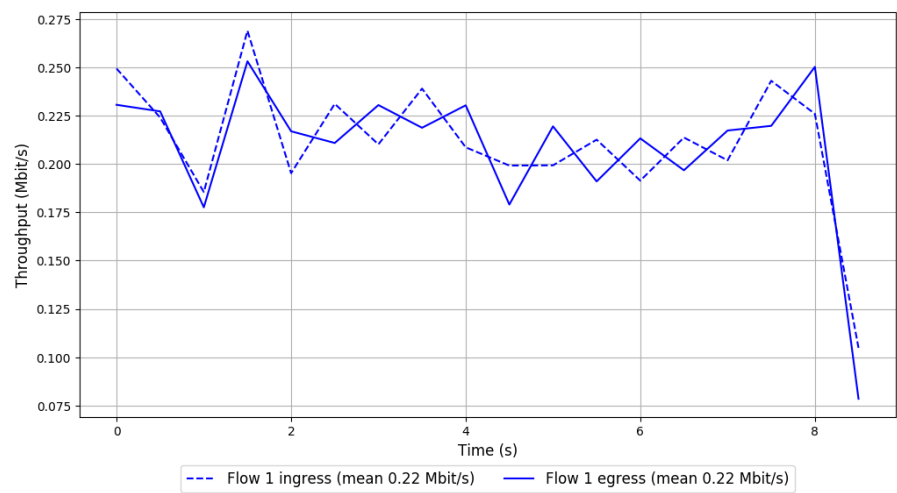


Run 7: Statistics of SReAM

Start at: 2017-11-30 11:23:44

End at: 2017-11-30 11:24:14

Run 7: Report of SReAM — Data Link

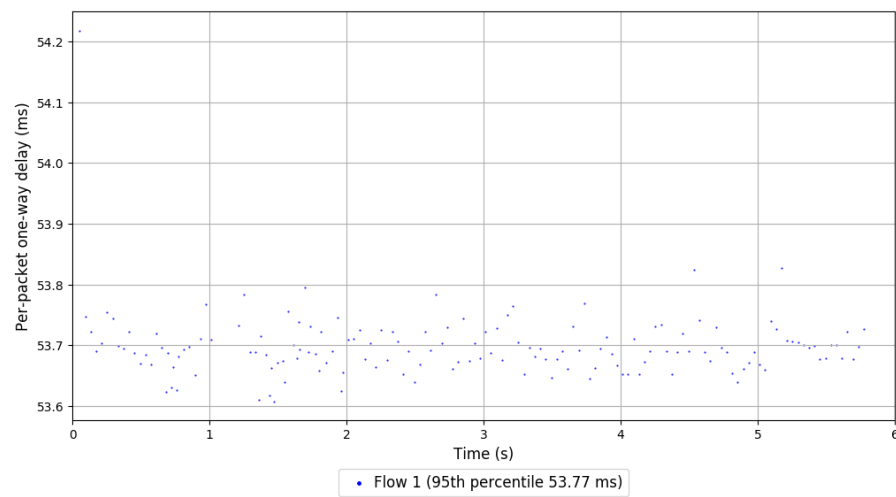
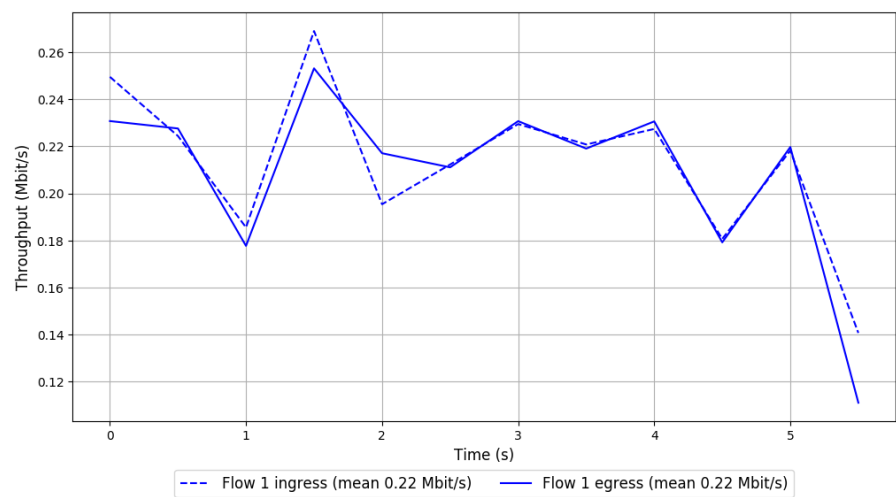


Run 8: Statistics of SReAM

Start at: 2017-11-30 11:34:20

End at: 2017-11-30 11:34:50

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SReAM

Start at: 2017-11-30 11:44:42

End at: 2017-11-30 11:45:12

Run 9: Report of SReAM — Data Link

Figure is missing

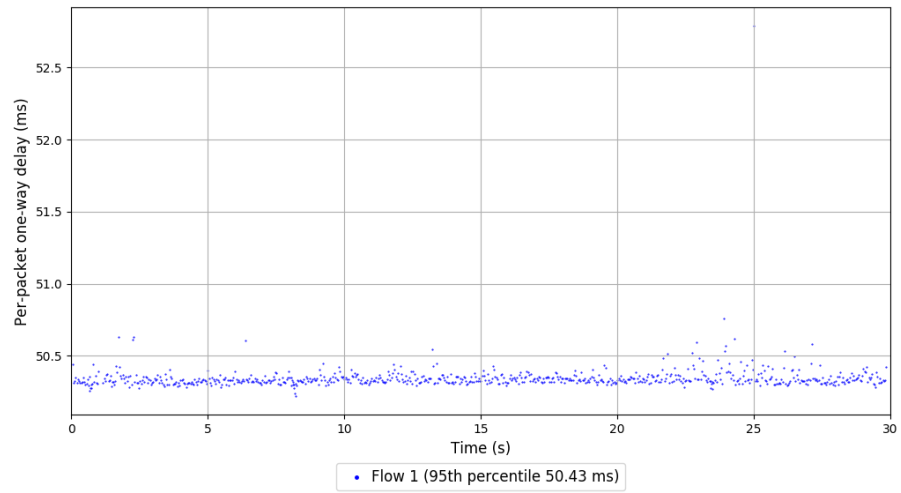
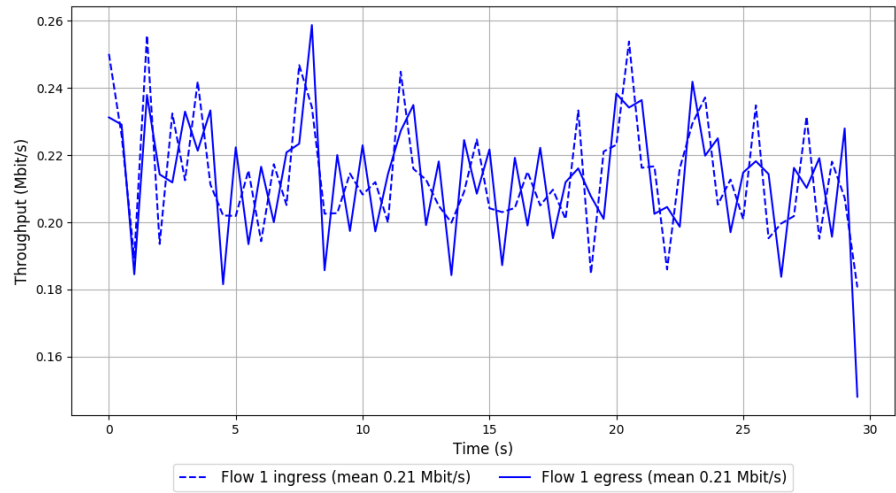
Figure is missing

```
Run 10: Statistics of SReAM

Start at: 2017-11-30 11:54:58
End at: 2017-11-30 11:55:28

# Below is generated by plot.py at 2017-11-30 14:10:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 50.431 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 50.431 ms
Loss rate: 0.38%
```

Run 10: Report of SReAM — Data Link

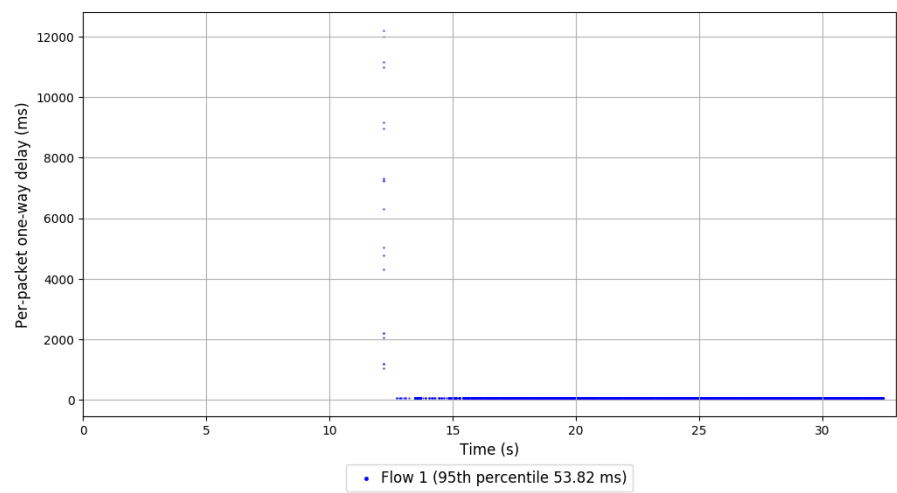
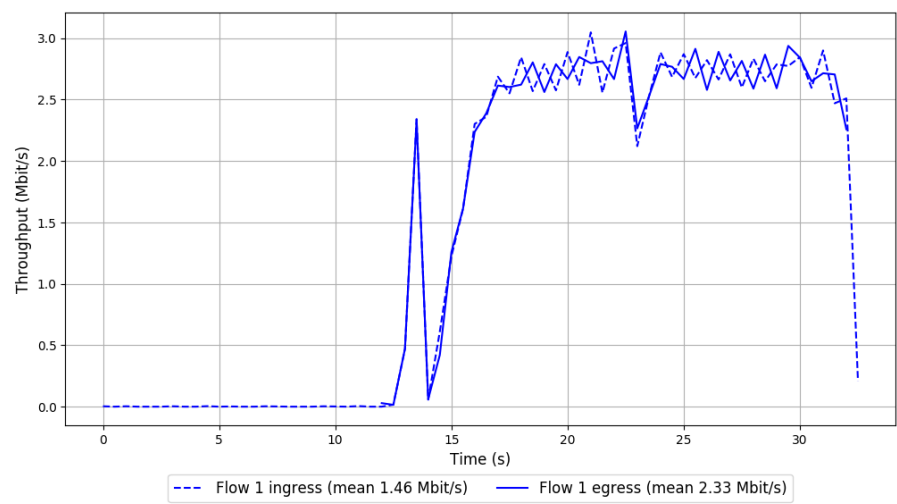


Run 1: Statistics of WebRTC media

Start at: 2017-11-30 10:23:03

End at: 2017-11-30 10:23:33

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2017-11-30 10:33:40

End at: 2017-11-30 10:34:10

Below is generated by plot.py at 2017-11-30 14:10:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 53.807 ms

Loss rate: 0.30%

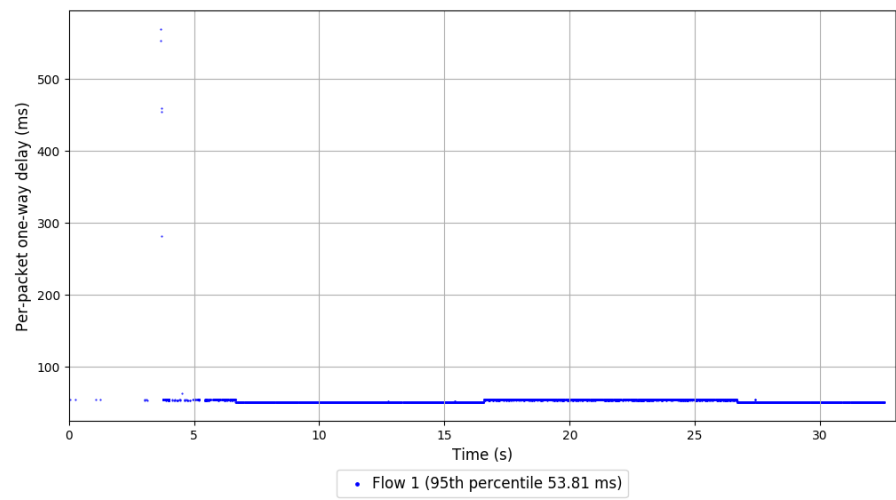
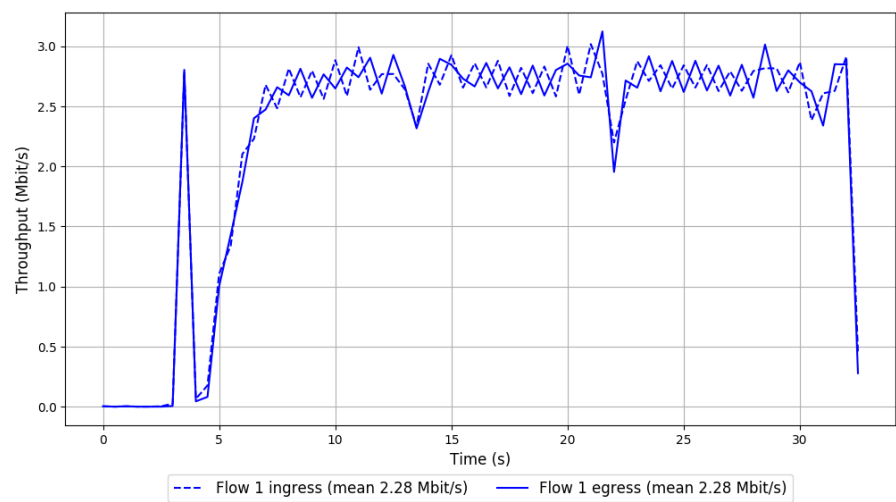
-- Flow 1:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 53.807 ms

Loss rate: 0.30%

Run 2: Report of WebRTC media — Data Link

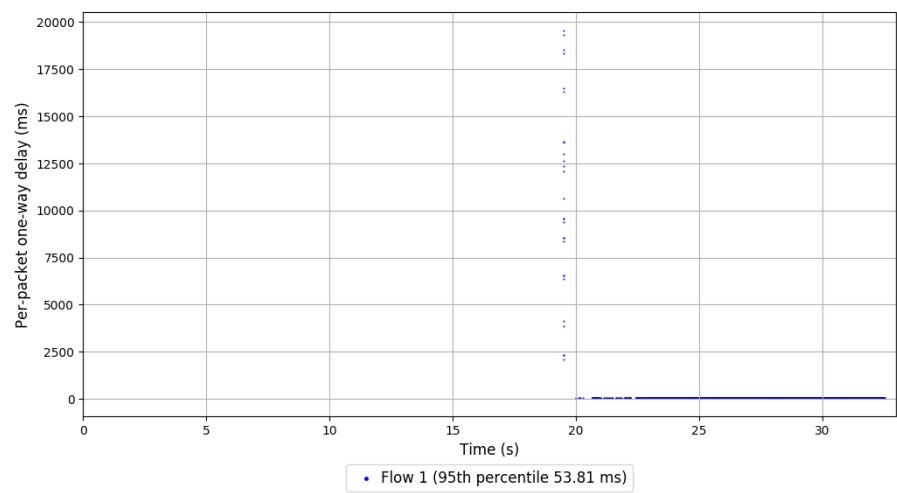
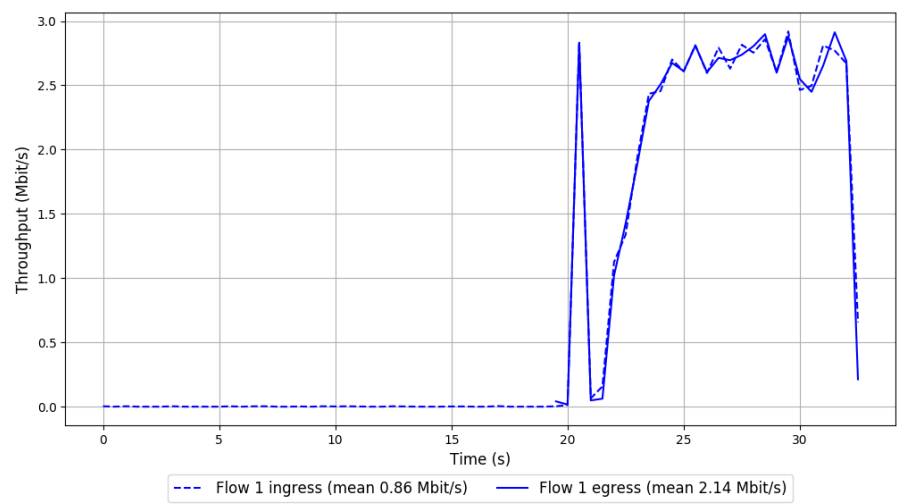


Run 3: Statistics of WebRTC media

Start at: 2017-11-30 10:44:05

End at: 2017-11-30 10:44:35

Run 3: Report of WebRTC media — Data Link

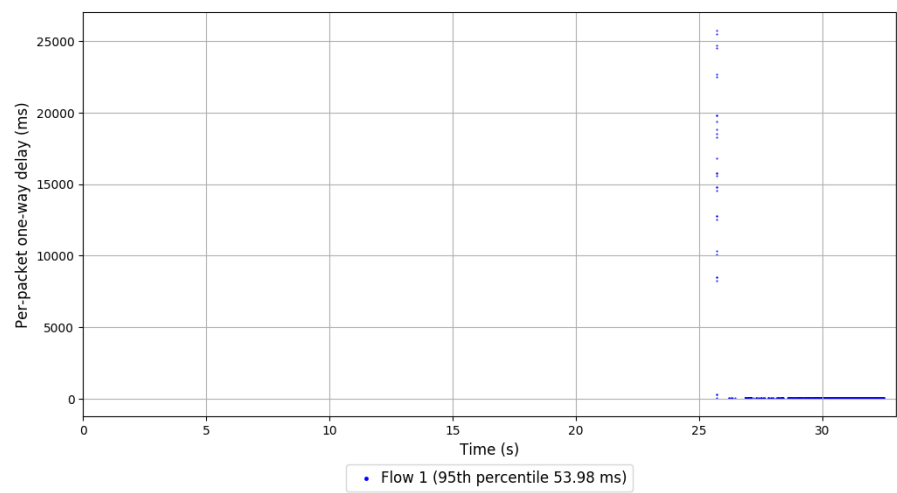
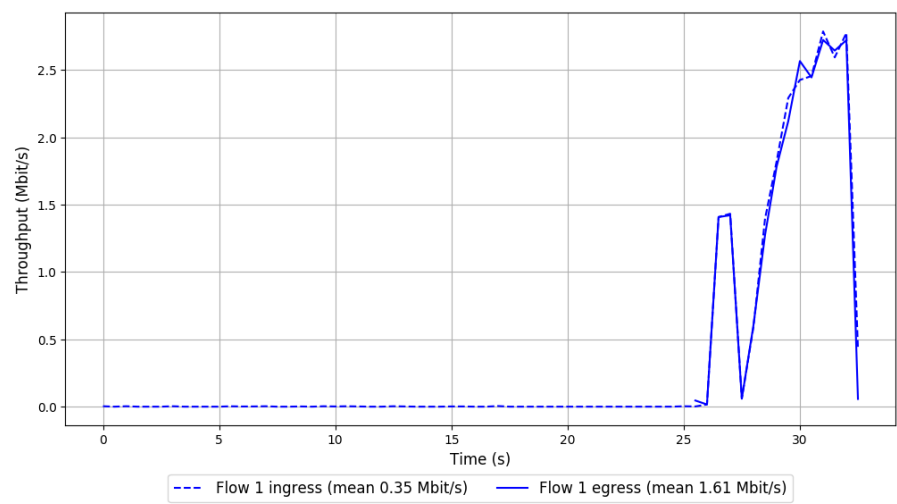


Run 4: Statistics of WebRTC media

Start at: 2017-11-30 10:54:26

End at: 2017-11-30 10:54:56

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2017-11-30 11:04:51

End at: 2017-11-30 11:05:21

Below is generated by plot.py at 2017-11-30 14:10:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 53.731 ms

Loss rate: 0.34%

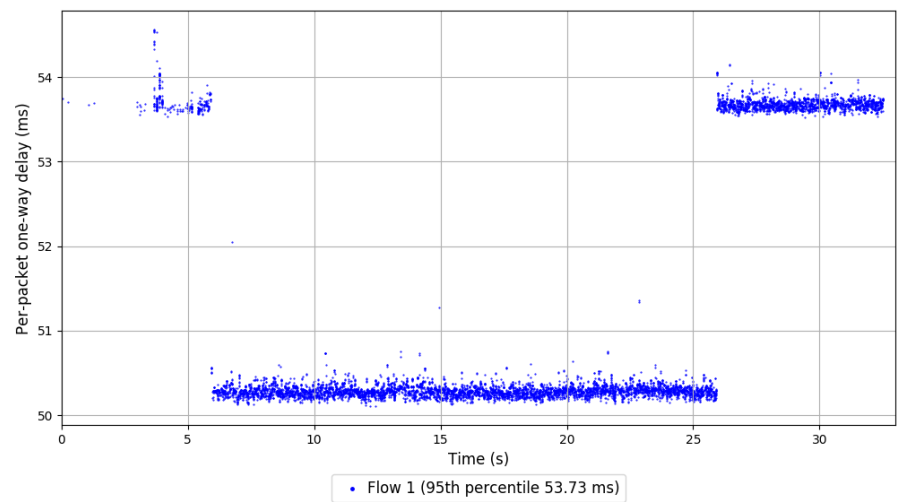
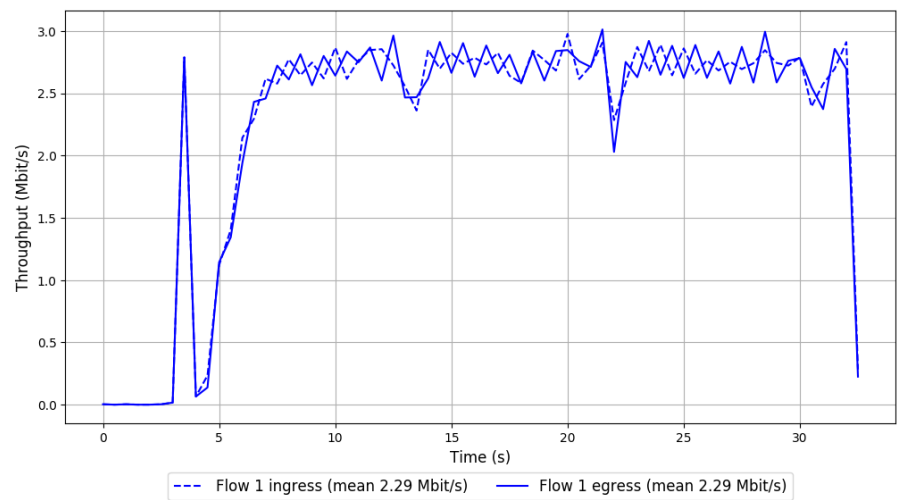
-- Flow 1:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 53.731 ms

Loss rate: 0.34%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2017-11-30 11:15:26

End at: 2017-11-30 11:15:56

Below is generated by plot.py at 2017-11-30 14:10:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 53.790 ms

Loss rate: 0.45%

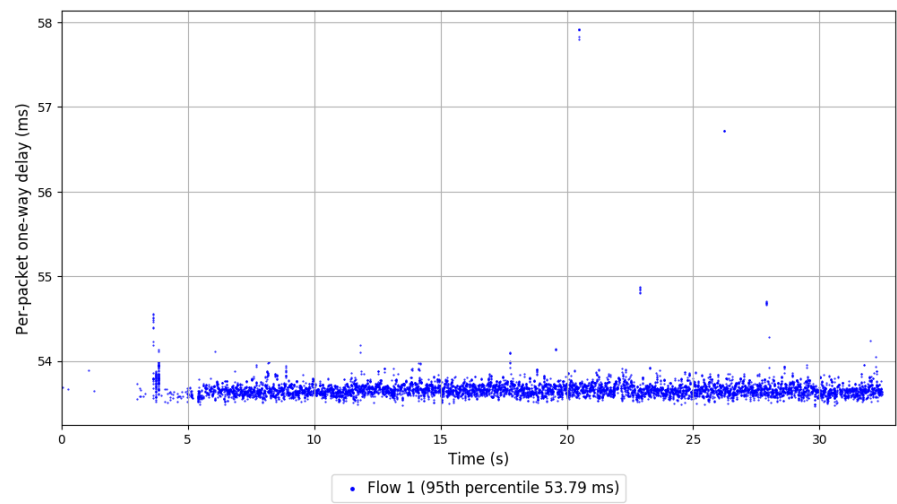
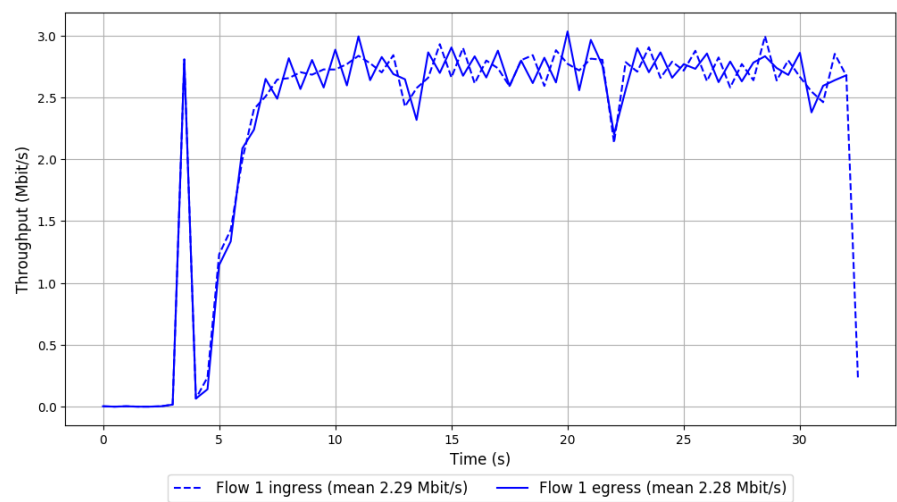
-- Flow 1:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 53.790 ms

Loss rate: 0.45%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2017-11-30 11:26:01

End at: 2017-11-30 11:26:31

Below is generated by plot.py at 2017-11-30 14:10:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.43 Mbit/s

95th percentile per-packet one-way delay: 53.685 ms

Loss rate: 0.53%

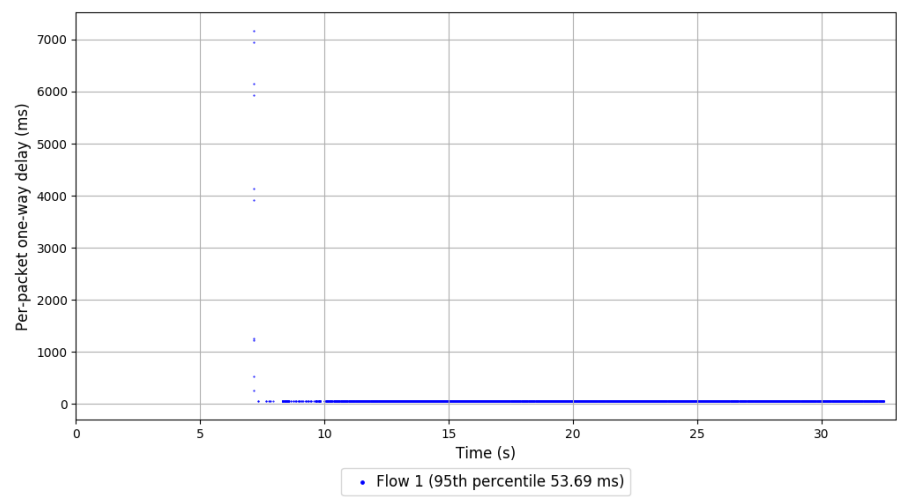
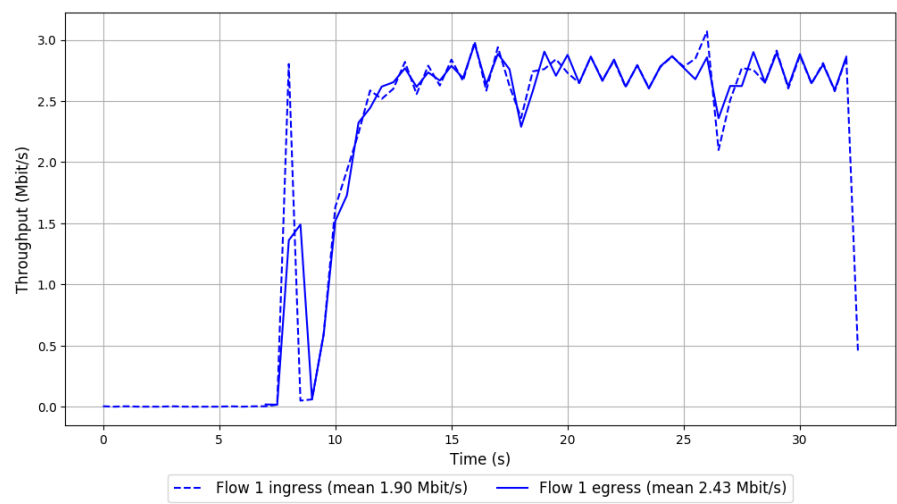
-- Flow 1:

Average throughput: 2.43 Mbit/s

95th percentile per-packet one-way delay: 53.685 ms

Loss rate: 0.53%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2017-11-30 11:36:38

End at: 2017-11-30 11:37:08

Below is generated by plot.py at 2017-11-30 14:10:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.27 Mbit/s

95th percentile per-packet one-way delay: 53.836 ms

Loss rate: 0.43%

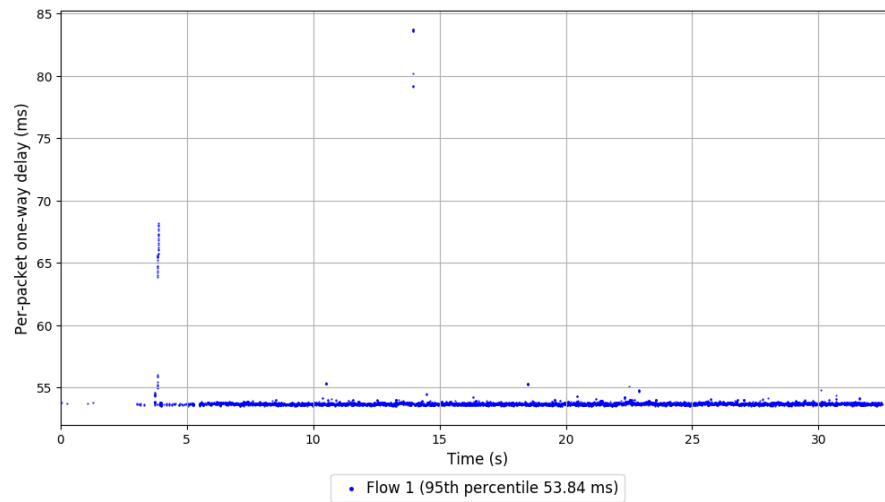
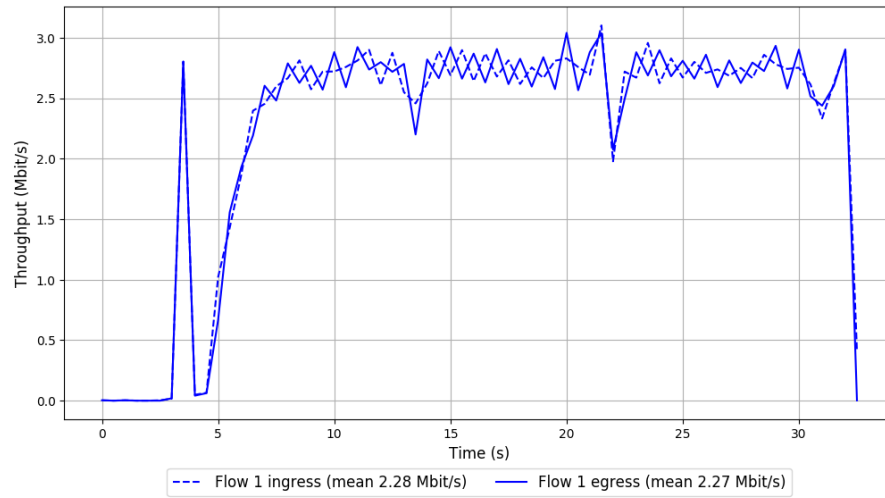
-- Flow 1:

Average throughput: 2.27 Mbit/s

95th percentile per-packet one-way delay: 53.836 ms

Loss rate: 0.43%

Run 8: Report of WebRTC media — Data Link

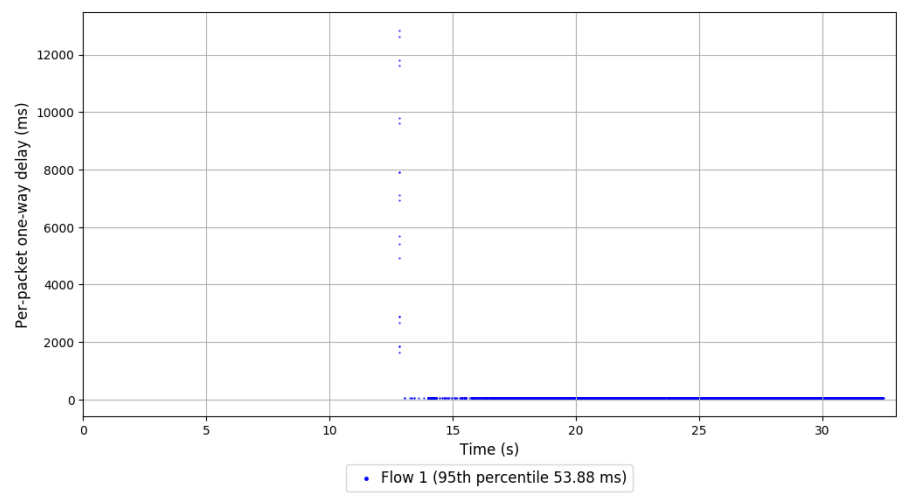
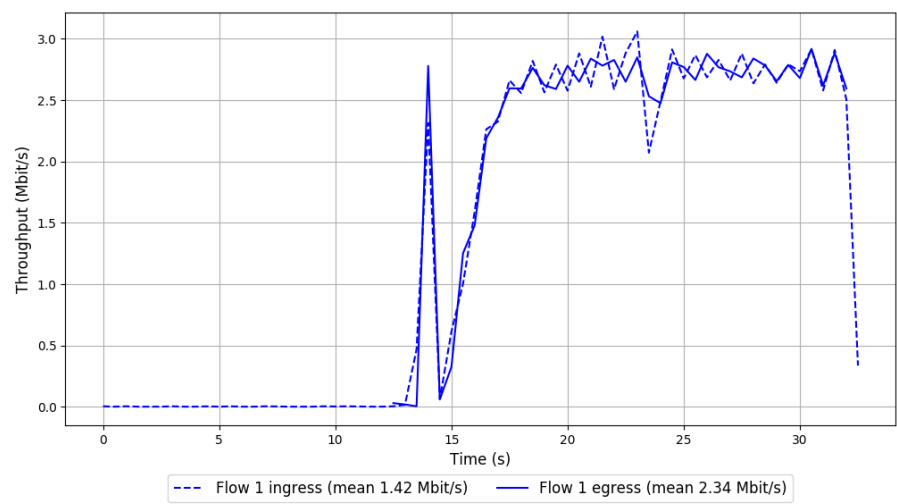


Run 9: Statistics of WebRTC media

Start at: 2017-11-30 11:46:58

End at: 2017-11-30 11:47:28

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2017-11-30 11:57:15

End at: 2017-11-30 11:57:45

Below is generated by plot.py at 2017-11-30 14:10:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 50.239 ms

Loss rate: 0.45%

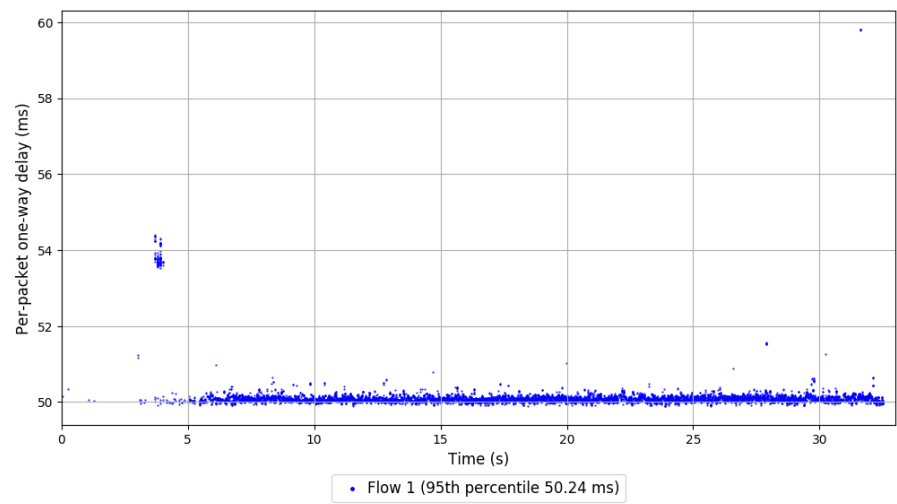
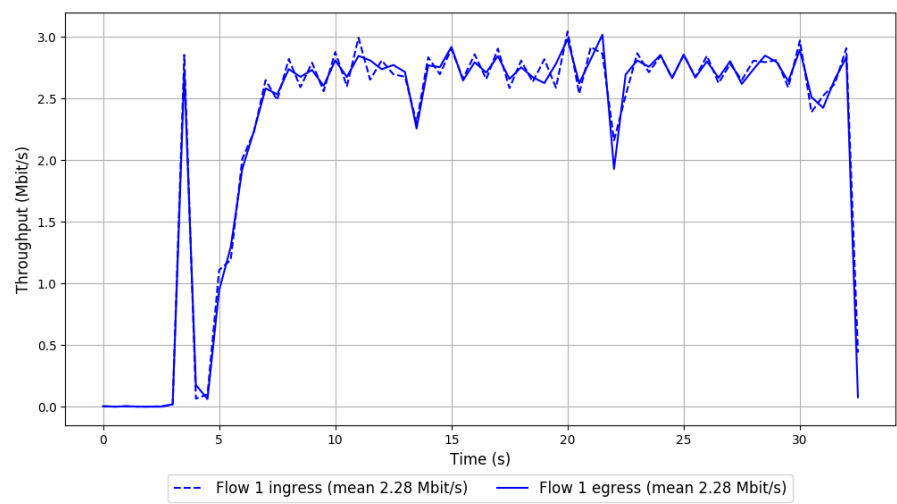
-- Flow 1:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 50.239 ms

Loss rate: 0.45%

Run 10: Report of WebRTC media — Data Link

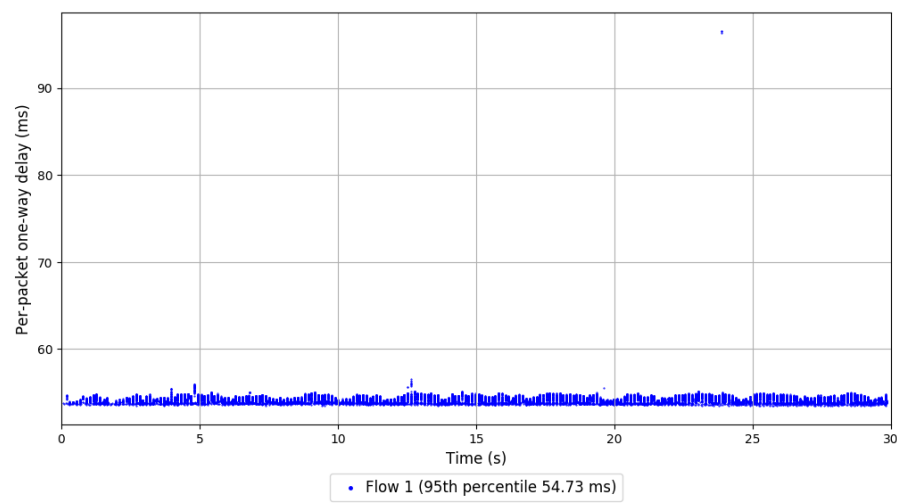
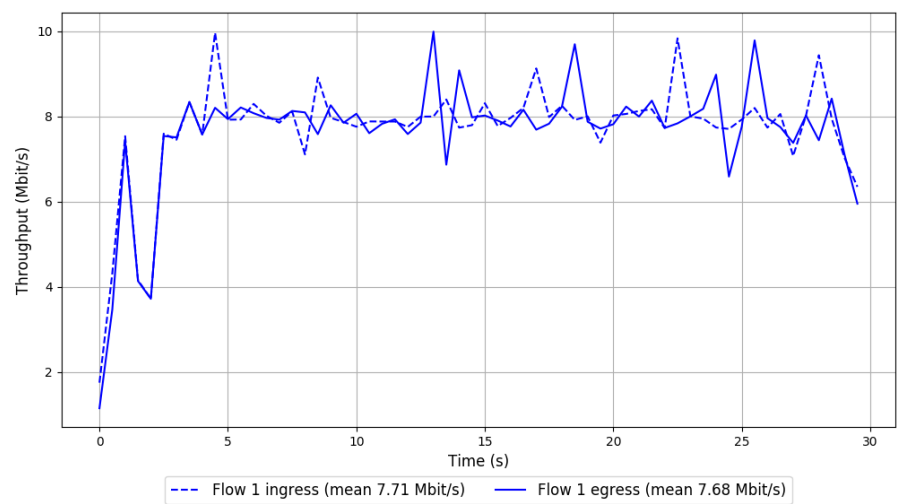


```
Run 1: Statistics of Sprout

Start at: 2017-11-30 10:16:51
End at: 2017-11-30 10:17:21

# Below is generated by plot.py at 2017-11-30 14:10:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.68 Mbit/s
95th percentile per-packet one-way delay: 54.731 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 7.68 Mbit/s
95th percentile per-packet one-way delay: 54.731 ms
Loss rate: 0.75%
```

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2017-11-30 10:27:22

End at: 2017-11-30 10:27:52

Below is generated by plot.py at 2017-11-30 14:10:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.75 Mbit/s

95th percentile per-packet one-way delay: 54.647 ms

Loss rate: 0.39%

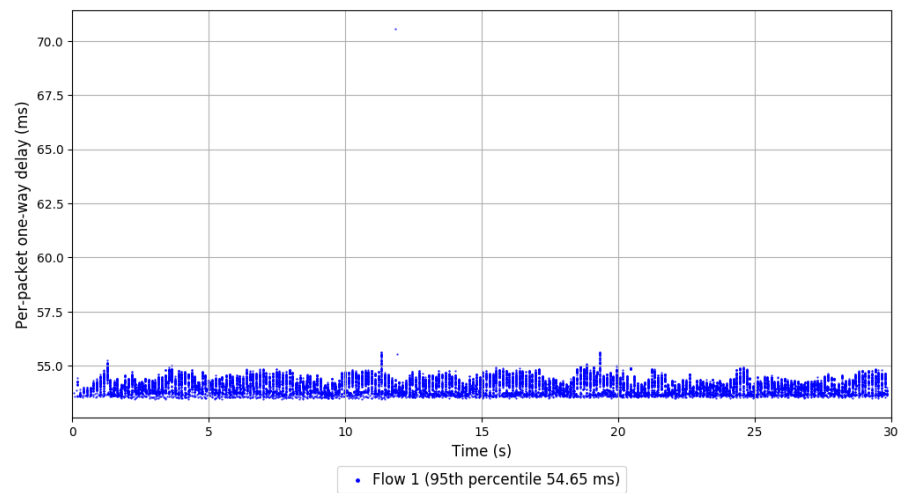
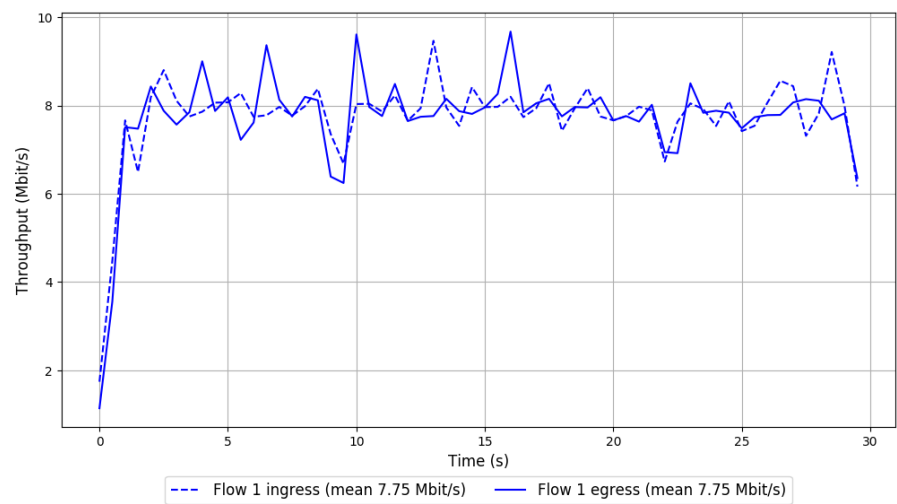
-- Flow 1:

Average throughput: 7.75 Mbit/s

95th percentile per-packet one-way delay: 54.647 ms

Loss rate: 0.39%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2017-11-30 10:38:00

End at: 2017-11-30 10:38:30

Below is generated by plot.py at 2017-11-30 14:10:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.64 Mbit/s

95th percentile per-packet one-way delay: 54.760 ms

Loss rate: 1.13%

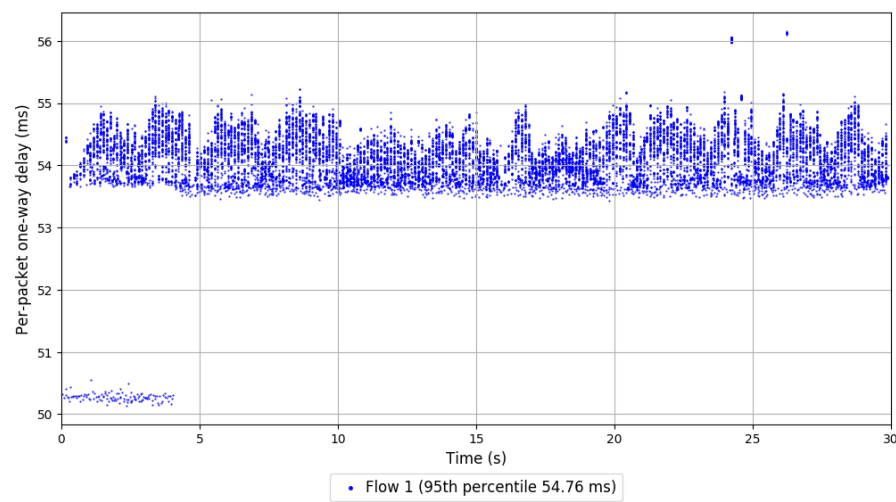
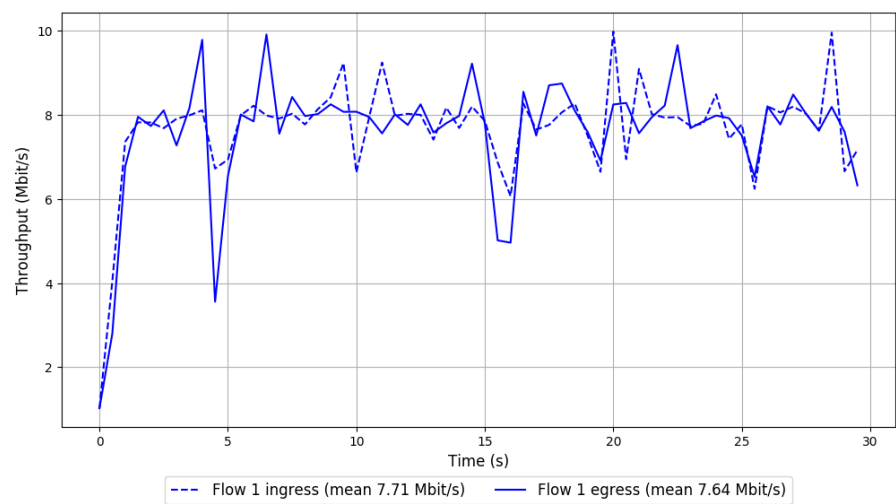
-- Flow 1:

Average throughput: 7.64 Mbit/s

95th percentile per-packet one-way delay: 54.760 ms

Loss rate: 1.13%

Run 3: Report of Sprout — Data Link

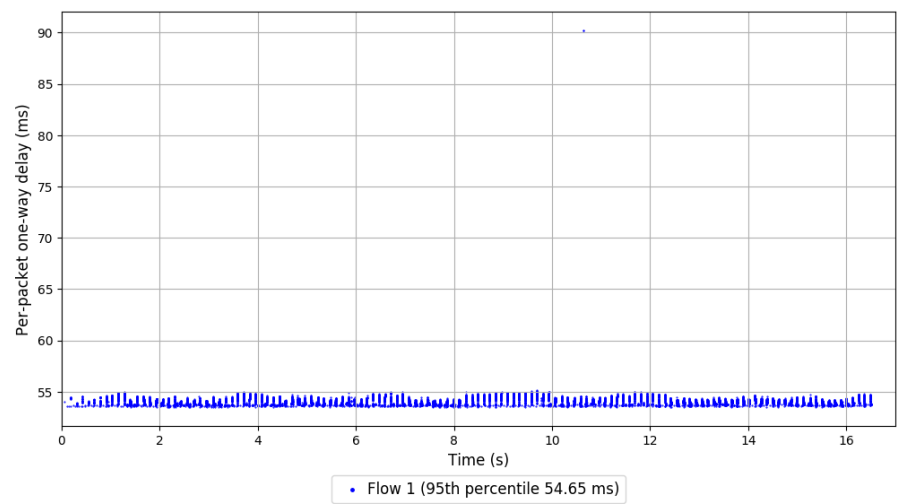
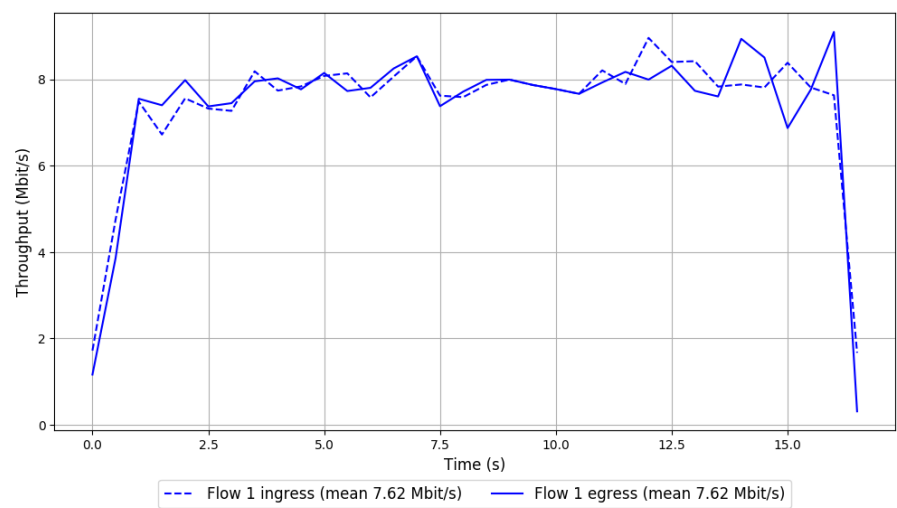


Run 4: Statistics of Sprout

Start at: 2017-11-30 10:48:12

End at: 2017-11-30 10:48:42

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2017-11-30 10:58:38

End at: 2017-11-30 10:59:09

Below is generated by plot.py at 2017-11-30 14:10:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.54 Mbit/s

95th percentile per-packet one-way delay: 54.773 ms

Loss rate: 1.32%

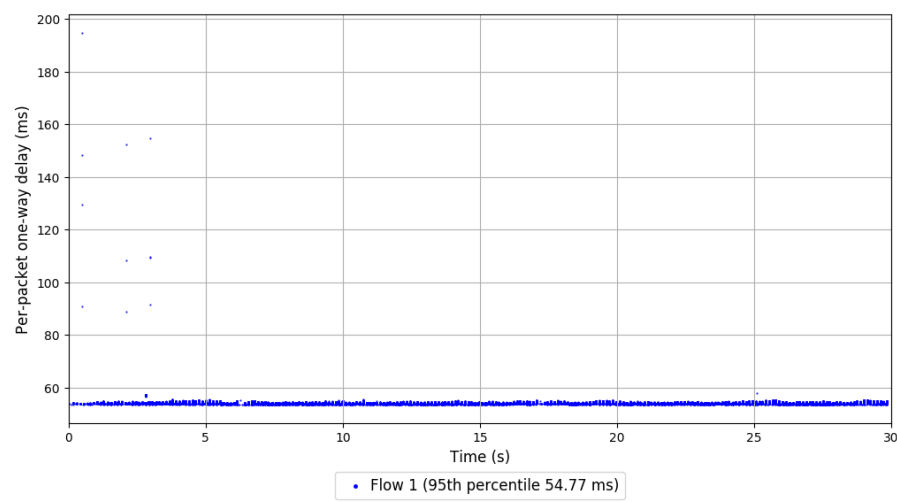
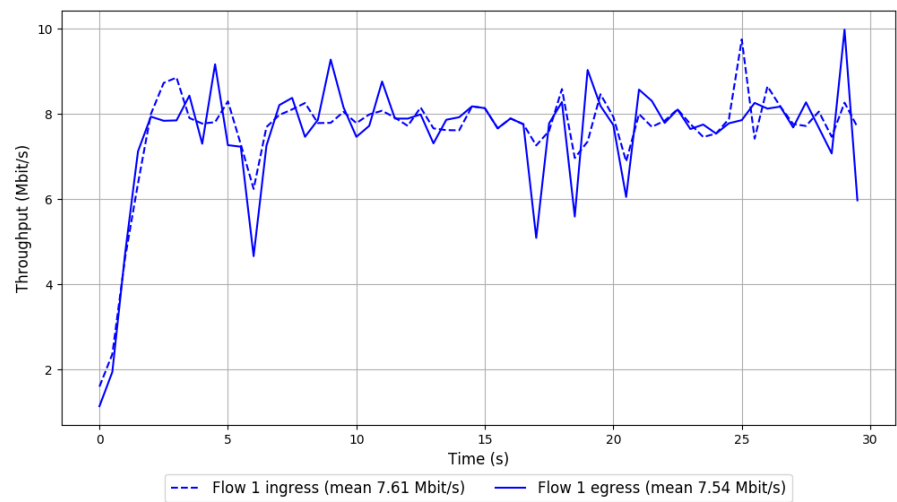
-- Flow 1:

Average throughput: 7.54 Mbit/s

95th percentile per-packet one-way delay: 54.773 ms

Loss rate: 1.32%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2017-11-30 11:09:12

End at: 2017-11-30 11:09:42

Below is generated by plot.py at 2017-11-30 14:10:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.73 Mbit/s

95th percentile per-packet one-way delay: 54.898 ms

Loss rate: 0.43%

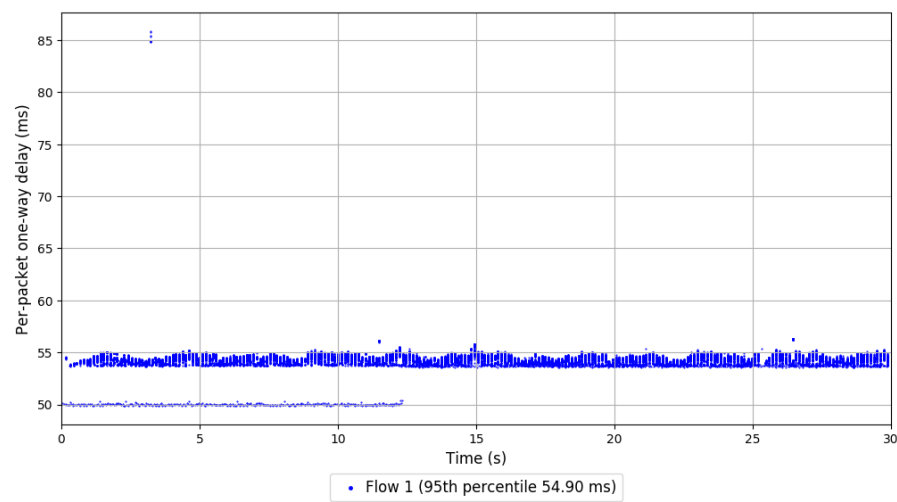
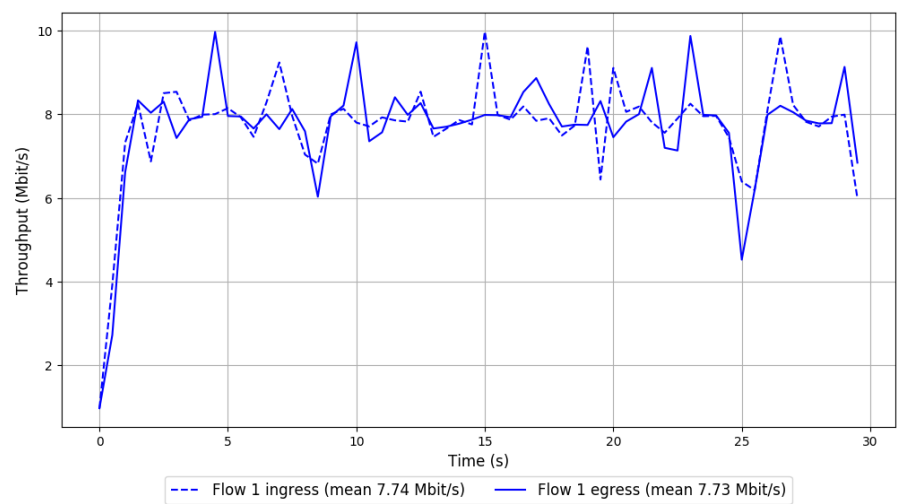
-- Flow 1:

Average throughput: 7.73 Mbit/s

95th percentile per-packet one-way delay: 54.898 ms

Loss rate: 0.43%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2017-11-30 11:19:44

End at: 2017-11-30 11:20:14

Below is generated by plot.py at 2017-11-30 14:10:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.64 Mbit/s

95th percentile per-packet one-way delay: 54.784 ms

Loss rate: 0.39%

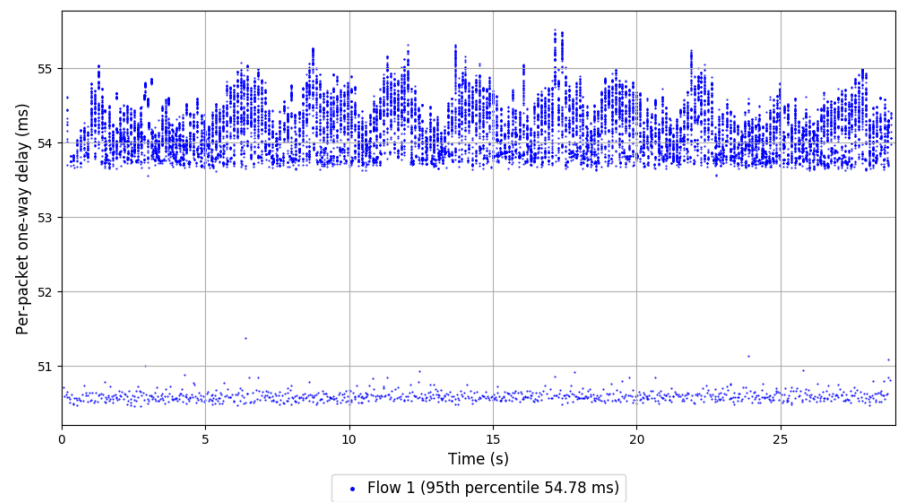
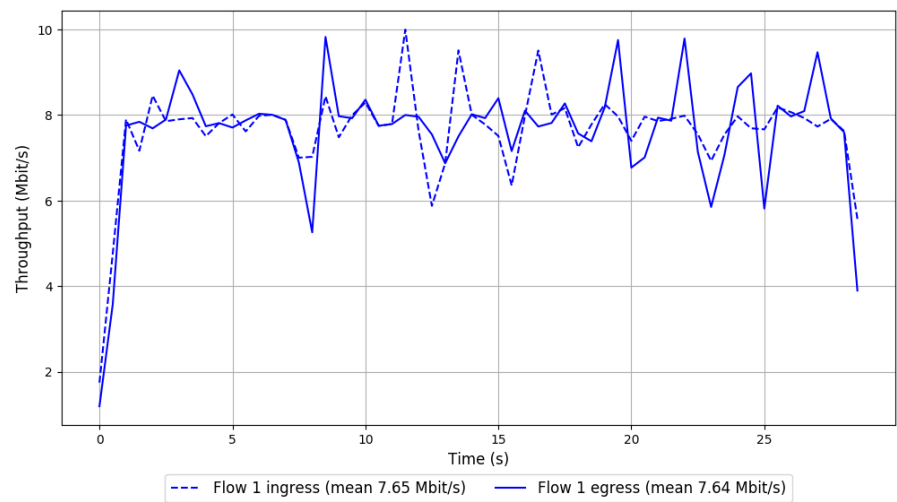
-- Flow 1:

Average throughput: 7.64 Mbit/s

95th percentile per-packet one-way delay: 54.784 ms

Loss rate: 0.39%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2017-11-30 11:30:23

End at: 2017-11-30 11:30:53

Below is generated by plot.py at 2017-11-30 14:10:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.82 Mbit/s

95th percentile per-packet one-way delay: 54.778 ms

Loss rate: 0.12%

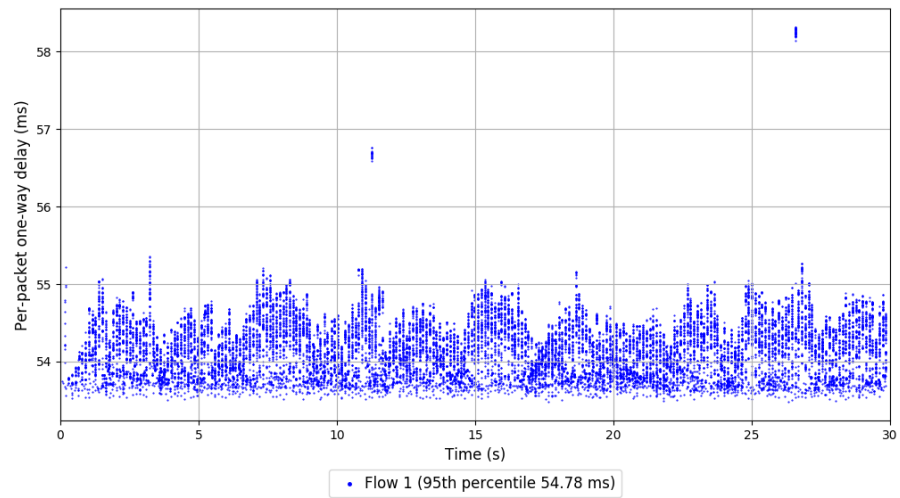
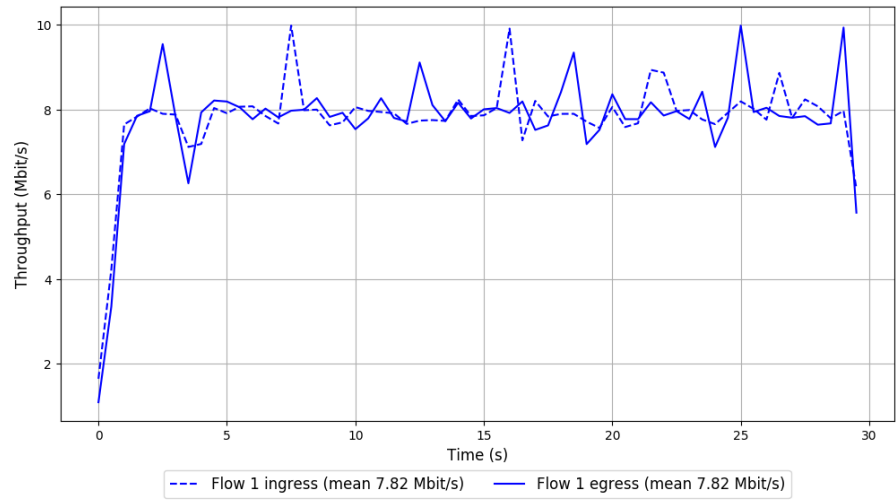
-- Flow 1:

Average throughput: 7.82 Mbit/s

95th percentile per-packet one-way delay: 54.778 ms

Loss rate: 0.12%

Run 8: Report of Sprout — Data Link

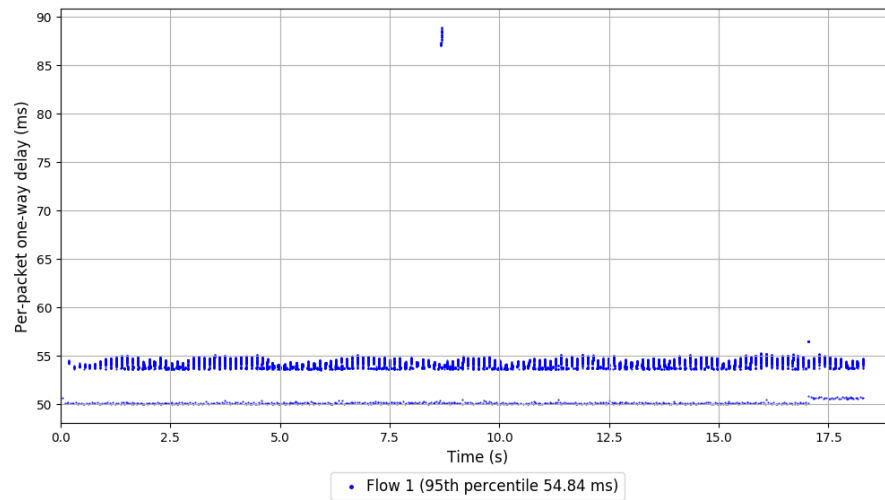
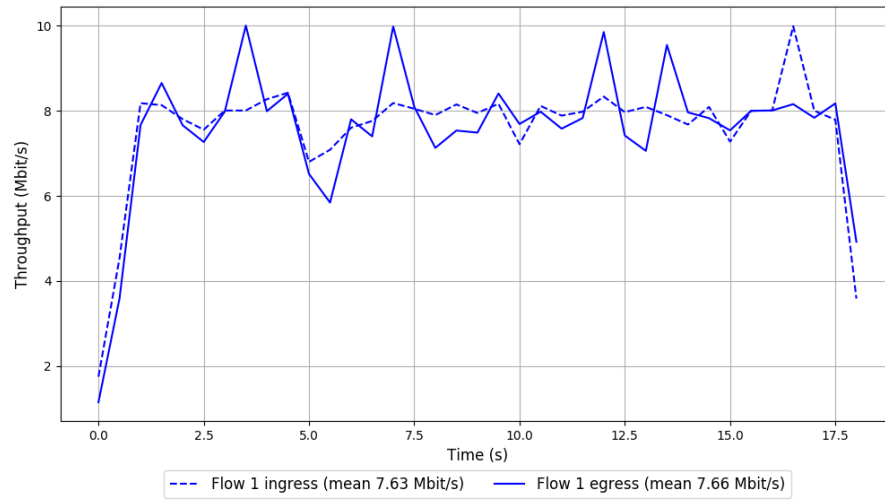


Run 9: Statistics of Sprout

Start at: 2017-11-30 11:40:45

End at: 2017-11-30 11:41:15

Run 9: Report of Sprout — Data Link

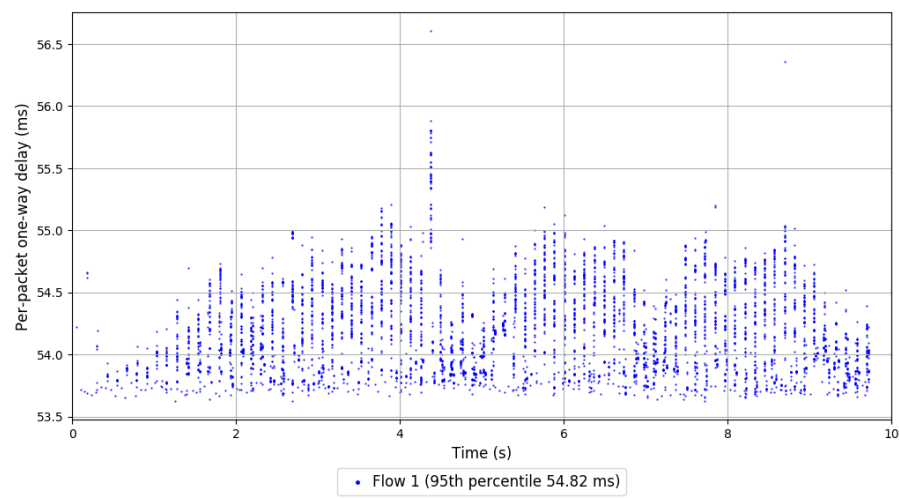
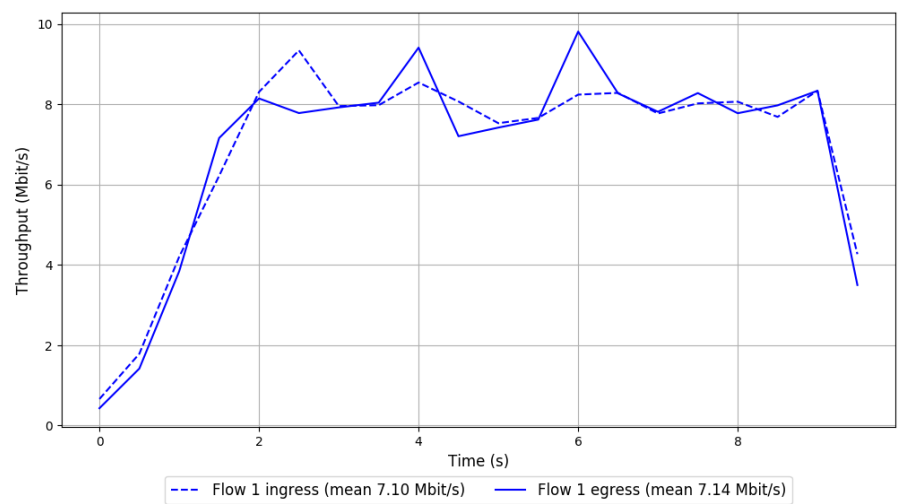


Run 10: Statistics of Sprout

Start at: 2017-11-30 11:50:57

End at: 2017-11-30 11:51:27

Run 10: Report of Sprout — Data Link

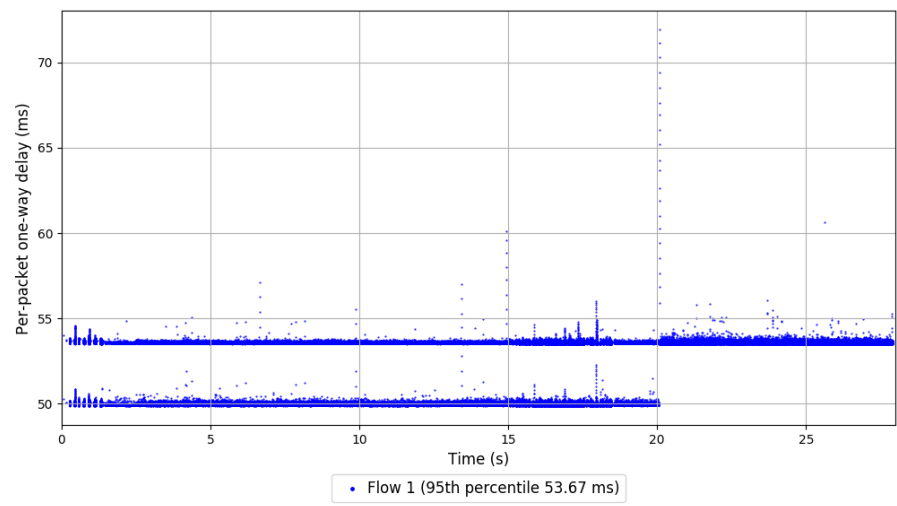
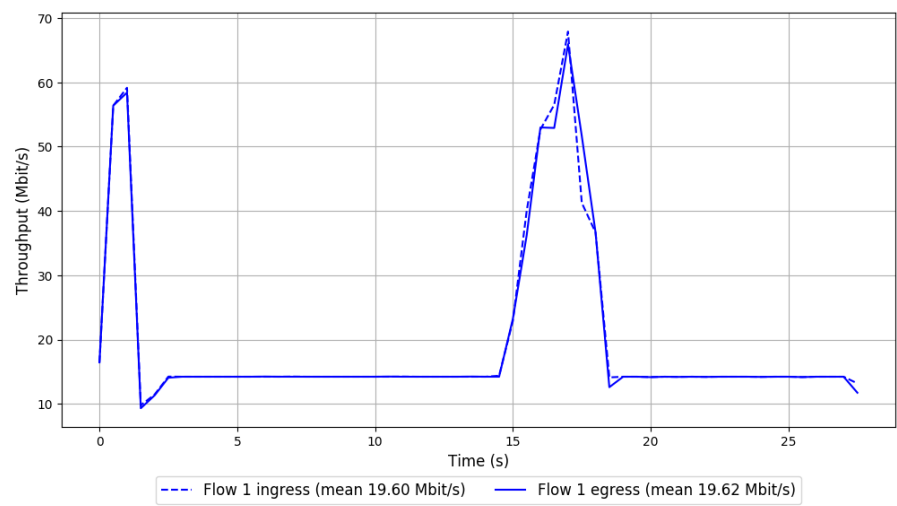


```
Run 1: Statistics of TaoVA-100x

Start at: 2017-11-30 10:14:52
End at: 2017-11-30 10:15:22

# Below is generated by plot.py at 2017-11-30 14:10:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 19.62 Mbit/s
95th percentile per-packet one-way delay: 53.673 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 19.62 Mbit/s
95th percentile per-packet one-way delay: 53.673 ms
Loss rate: 0.27%
```

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

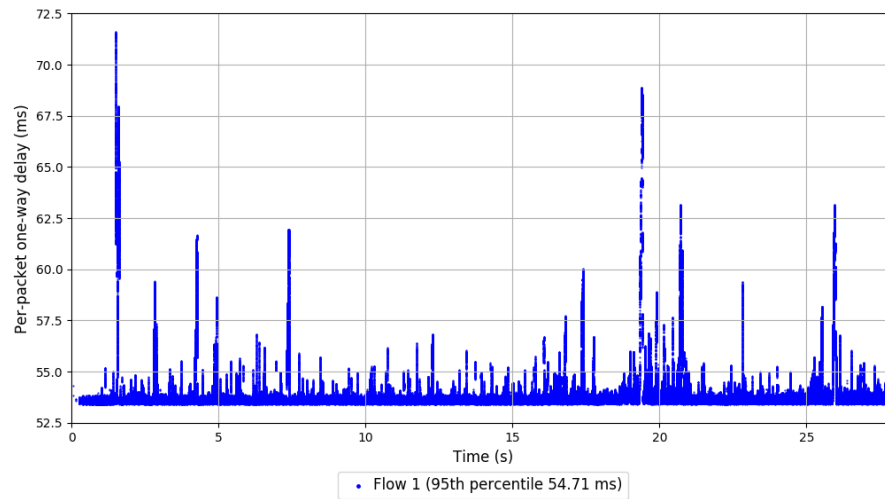
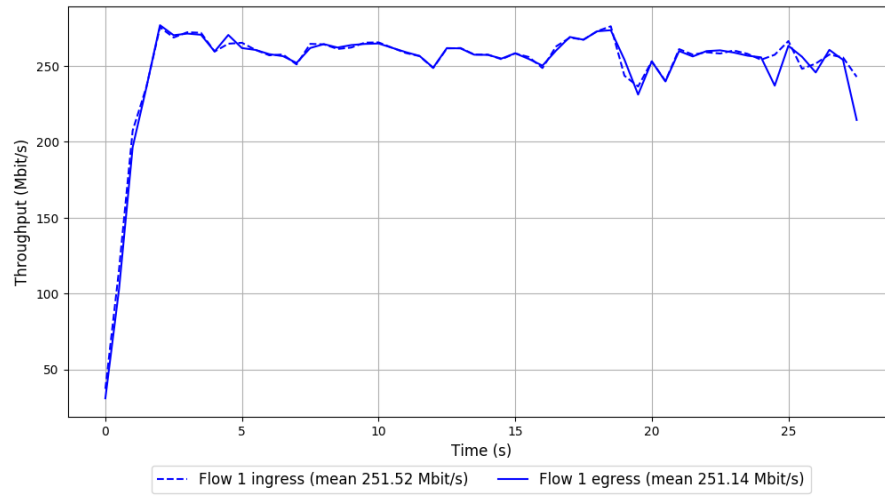


```
Run 2: Statistics of TaoVA-100x

Start at: 2017-11-30 10:25:06
End at: 2017-11-30 10:25:36

# Below is generated by plot.py at 2017-11-30 14:11:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 251.14 Mbit/s
95th percentile per-packet one-way delay: 54.710 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 251.14 Mbit/s
95th percentile per-packet one-way delay: 54.710 ms
Loss rate: 0.54%
```

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



Run 3: Statistics of TaoVA-100x

Start at: 2017-11-30 10:35:43

End at: 2017-11-30 10:36:13

Below is generated by plot.py at 2017-11-30 14:11:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 250.84 Mbit/s

95th percentile per-packet one-way delay: 53.788 ms

Loss rate: 0.35%

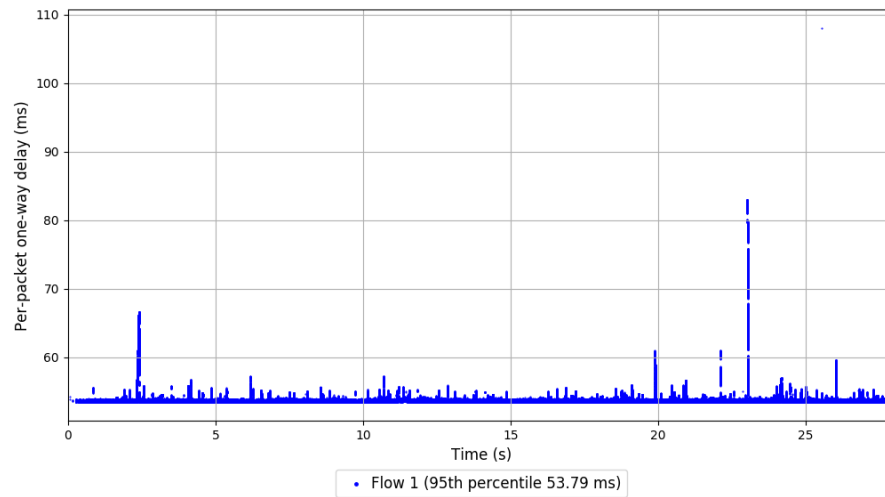
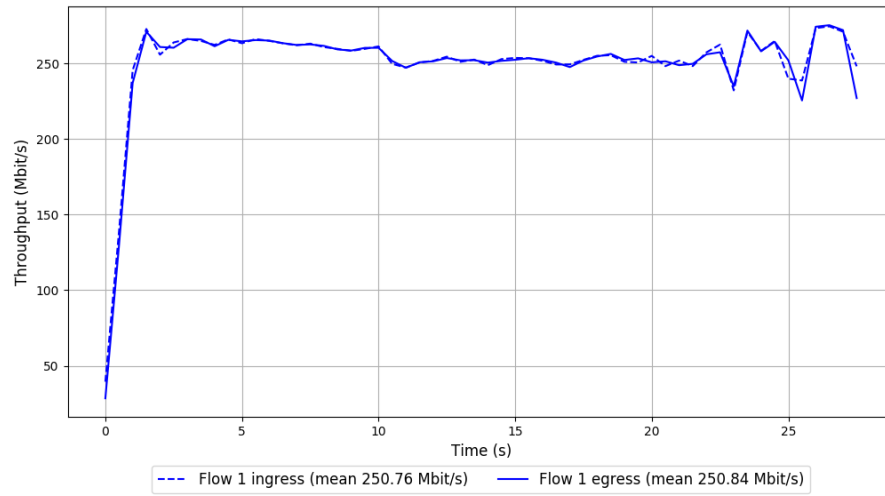
-- Flow 1:

Average throughput: 250.84 Mbit/s

95th percentile per-packet one-way delay: 53.788 ms

Loss rate: 0.35%

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

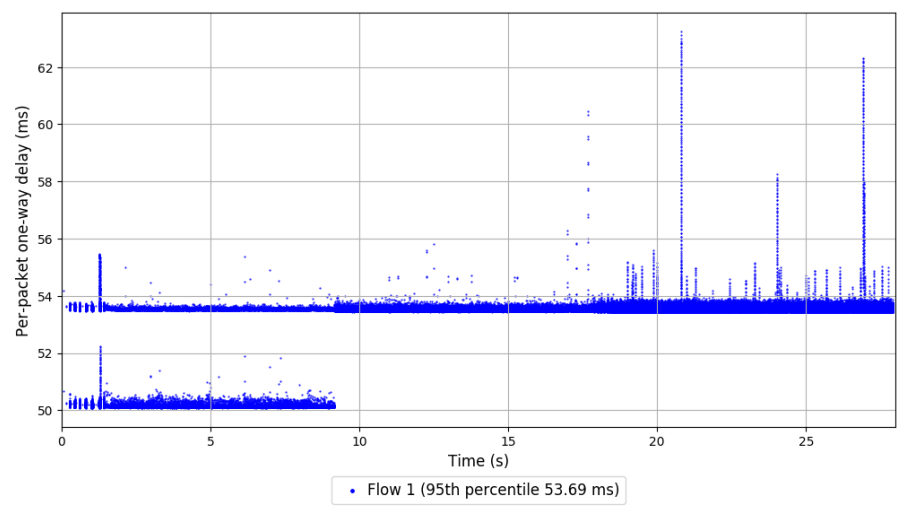
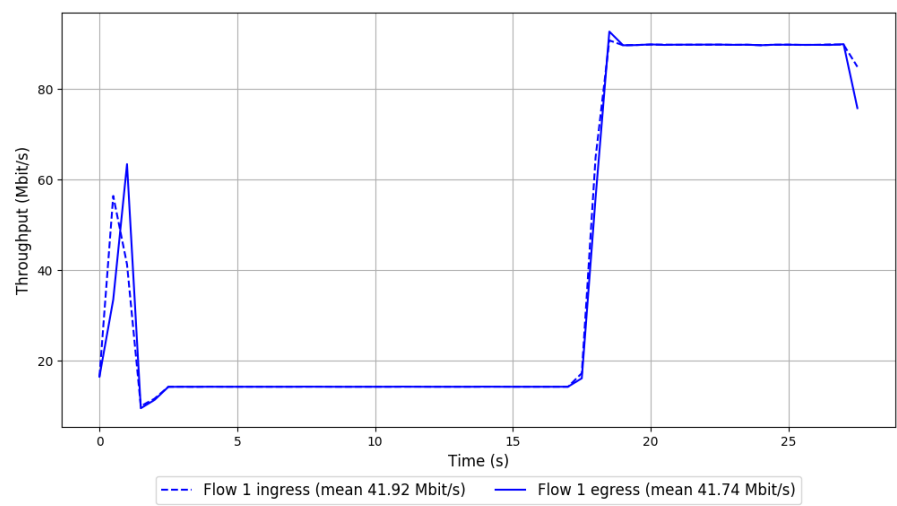


```
Run 4: Statistics of TaoVA-100x

Start at: 2017-11-30 10:46:13
End at: 2017-11-30 10:46:43

# Below is generated by plot.py at 2017-11-30 14:11:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 41.74 Mbit/s
95th percentile per-packet one-way delay: 53.691 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 41.74 Mbit/s
95th percentile per-packet one-way delay: 53.691 ms
Loss rate: 0.80%
```

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



Run 5: Statistics of TaoVA-100x

Start at: 2017-11-30 10:56:28

End at: 2017-11-30 10:56:58

Below is generated by plot.py at 2017-11-30 14:11:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 216.96 Mbit/s

95th percentile per-packet one-way delay: 53.920 ms

Loss rate: 0.04%

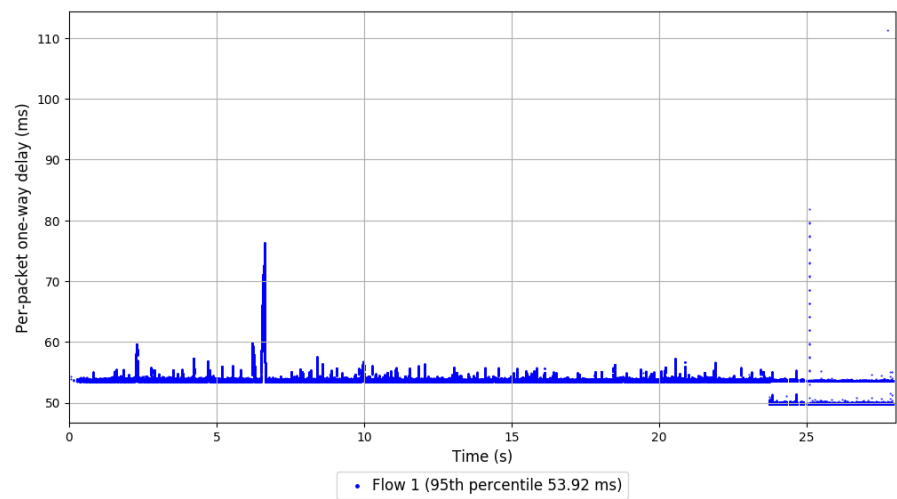
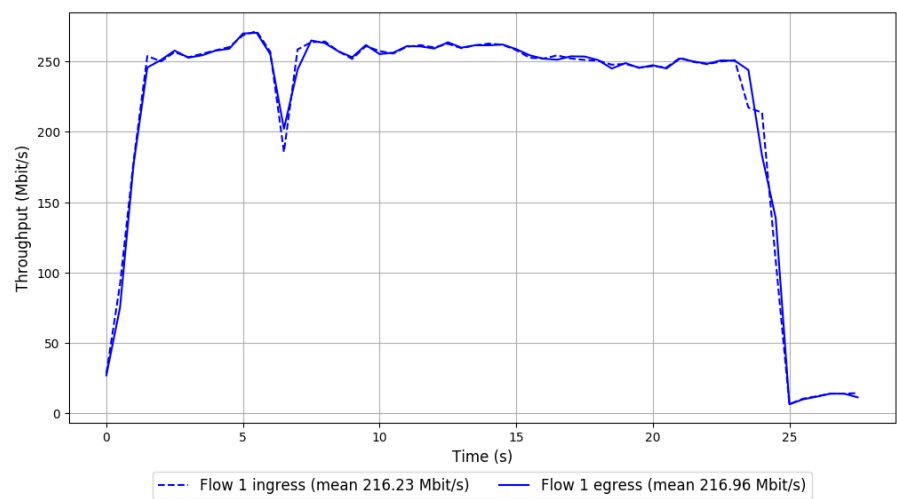
-- Flow 1:

Average throughput: 216.96 Mbit/s

95th percentile per-packet one-way delay: 53.920 ms

Loss rate: 0.04%

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



Run 6: Statistics of TaoVA-100x

Start at: 2017-11-30 11:06:55

End at: 2017-11-30 11:07:25

Below is generated by plot.py at 2017-11-30 14:11:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 246.83 Mbit/s

95th percentile per-packet one-way delay: 53.993 ms

Loss rate: 0.39%

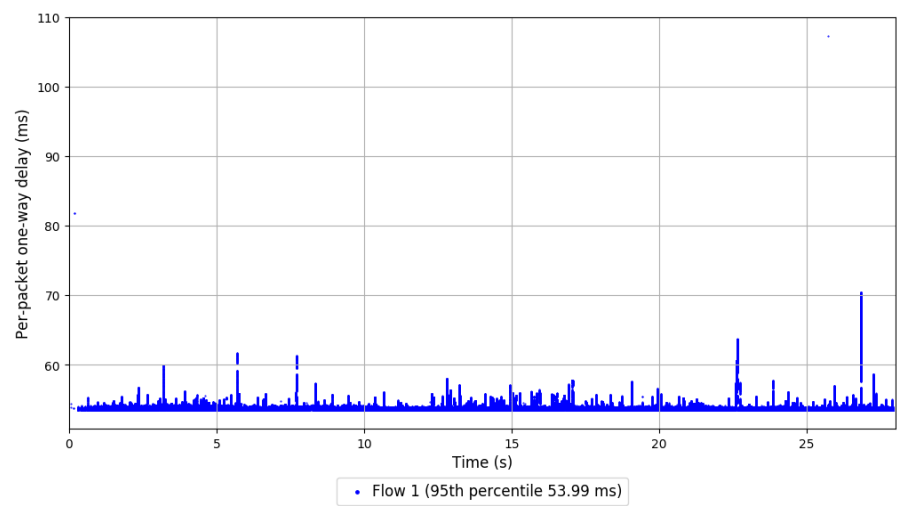
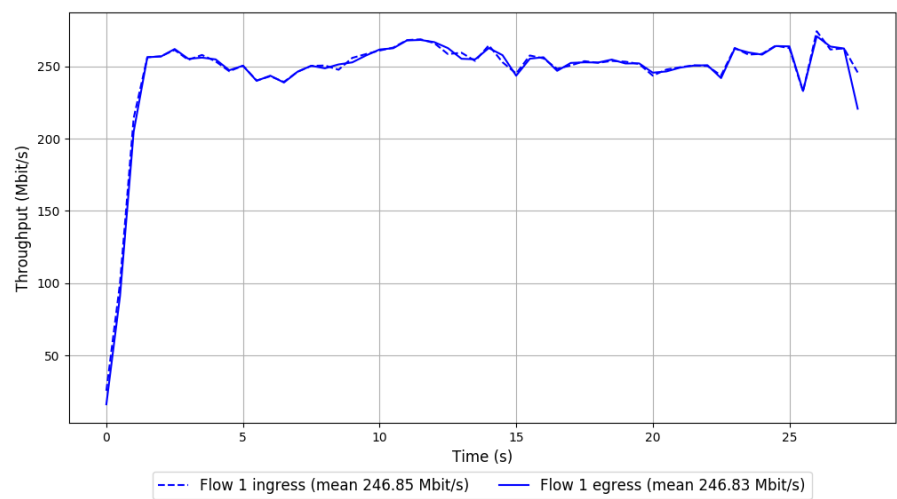
-- Flow 1:

Average throughput: 246.83 Mbit/s

95th percentile per-packet one-way delay: 53.993 ms

Loss rate: 0.39%

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

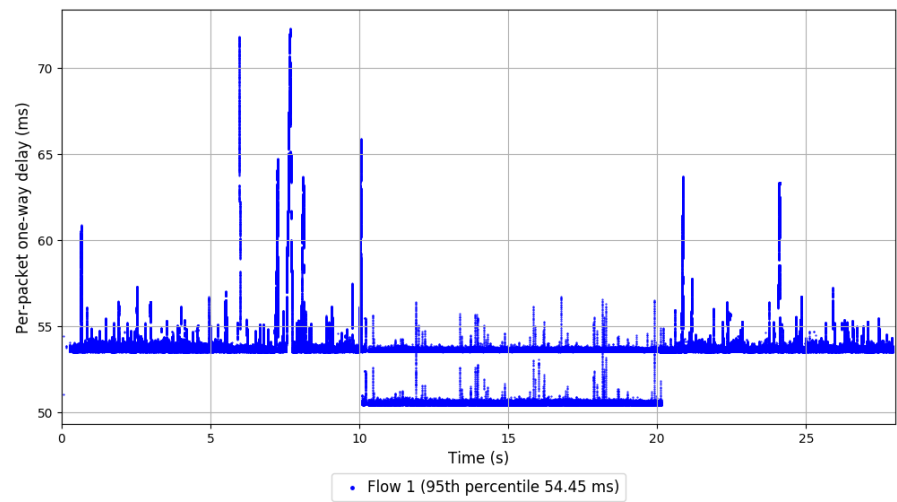
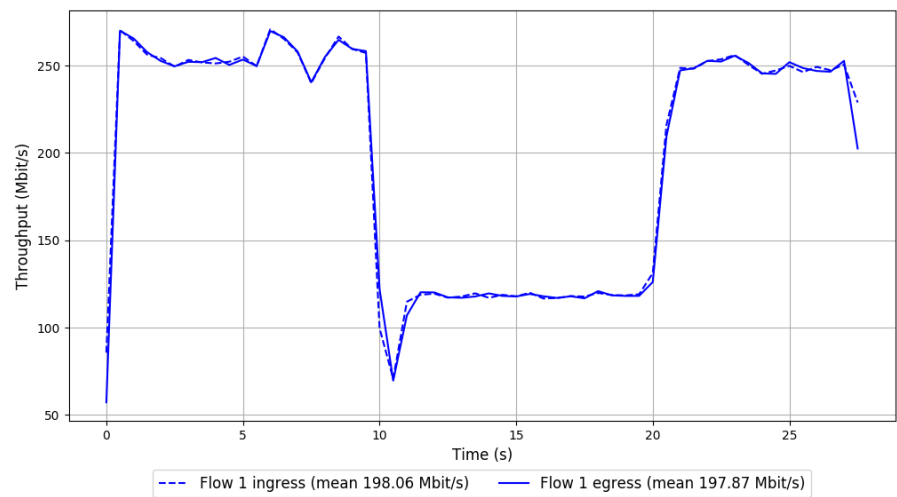


```
Run 7: Statistics of TaoVA-100x

Start at: 2017-11-30 11:17:32
End at: 2017-11-30 11:18:02

# Below is generated by plot.py at 2017-11-30 14:11:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 197.87 Mbit/s
95th percentile per-packet one-way delay: 54.446 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 197.87 Mbit/s
95th percentile per-packet one-way delay: 54.446 ms
Loss rate: 0.47%
```

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



Run 8: Statistics of TaoVA-100x

Start at: 2017-11-30 11:28:07

End at: 2017-11-30 11:28:37

Below is generated by plot.py at 2017-11-30 14:13:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 244.37 Mbit/s

95th percentile per-packet one-way delay: 53.950 ms

Loss rate: 0.39%

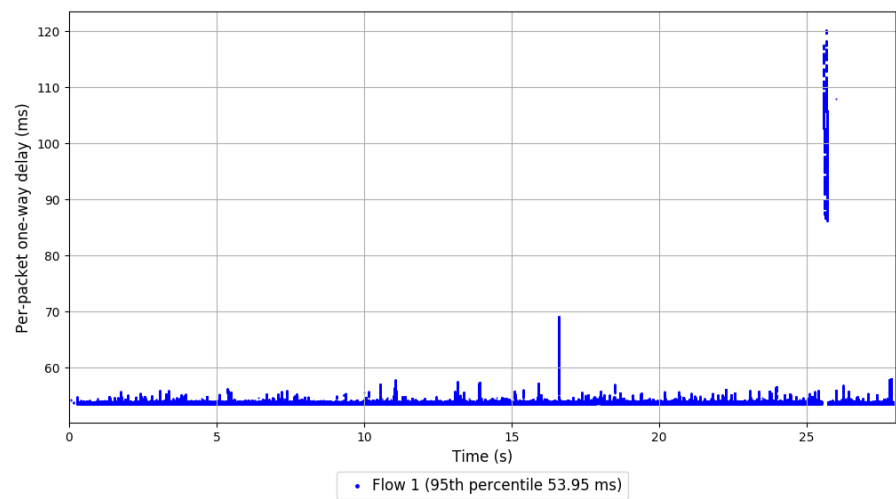
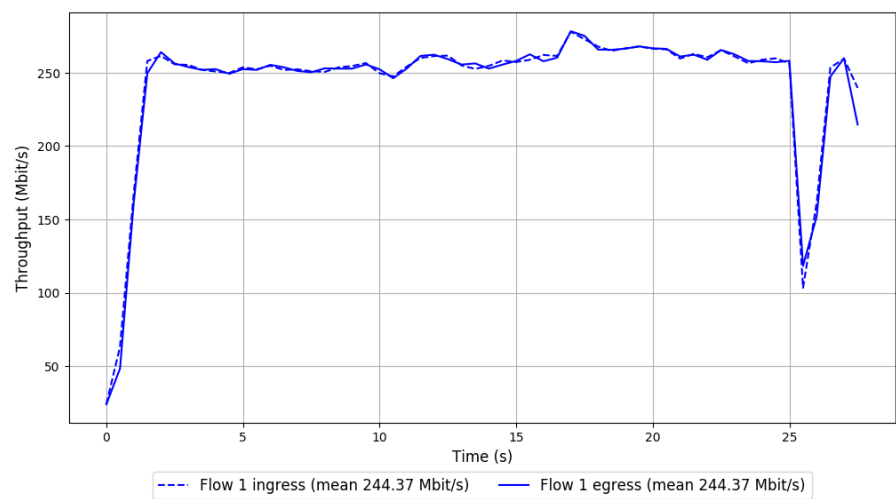
-- Flow 1:

Average throughput: 244.37 Mbit/s

95th percentile per-packet one-way delay: 53.950 ms

Loss rate: 0.39%

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



Run 9: Statistics of TaoVA-100x

Start at: 2017-11-30 11:38:43

End at: 2017-11-30 11:39:13

Below is generated by plot.py at 2017-11-30 14:13:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.44 Mbit/s

95th percentile per-packet one-way delay: 54.018 ms

Loss rate: 0.07%

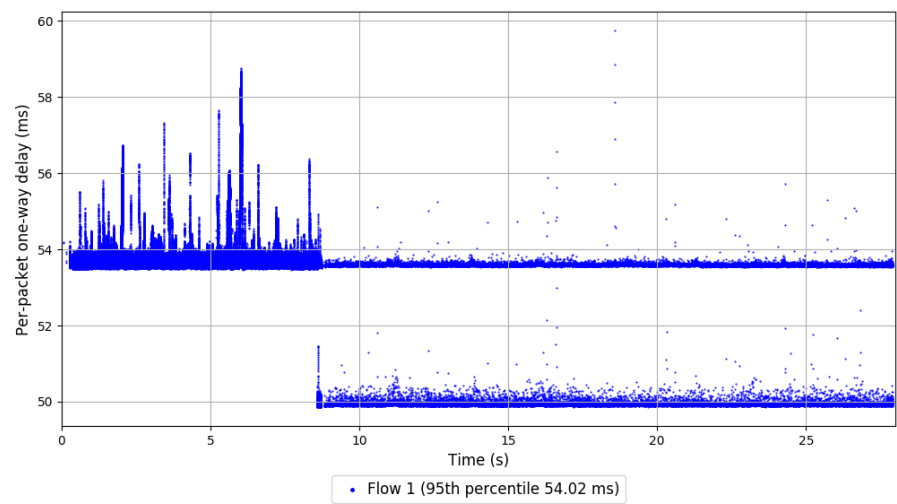
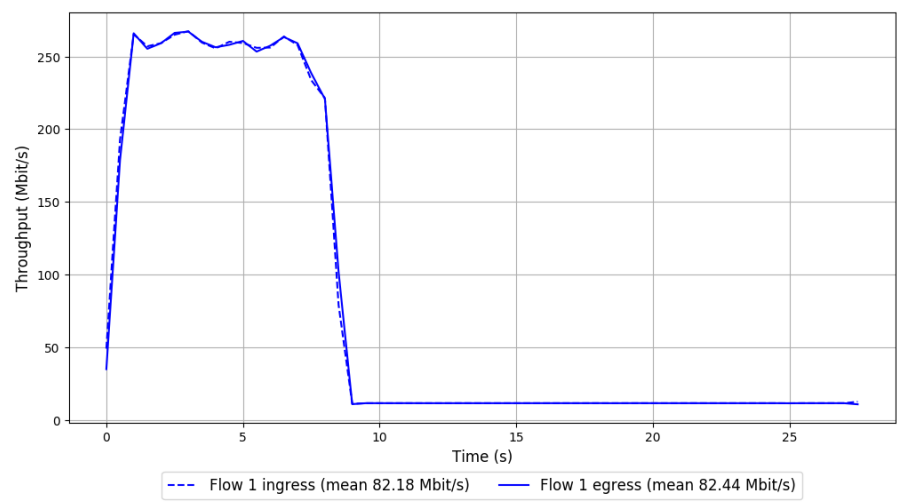
-- Flow 1:

Average throughput: 82.44 Mbit/s

95th percentile per-packet one-way delay: 54.018 ms

Loss rate: 0.07%

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

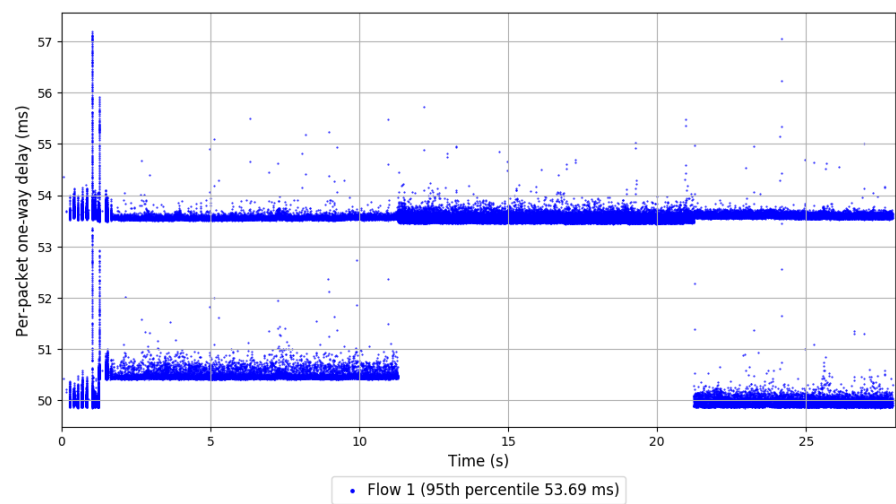
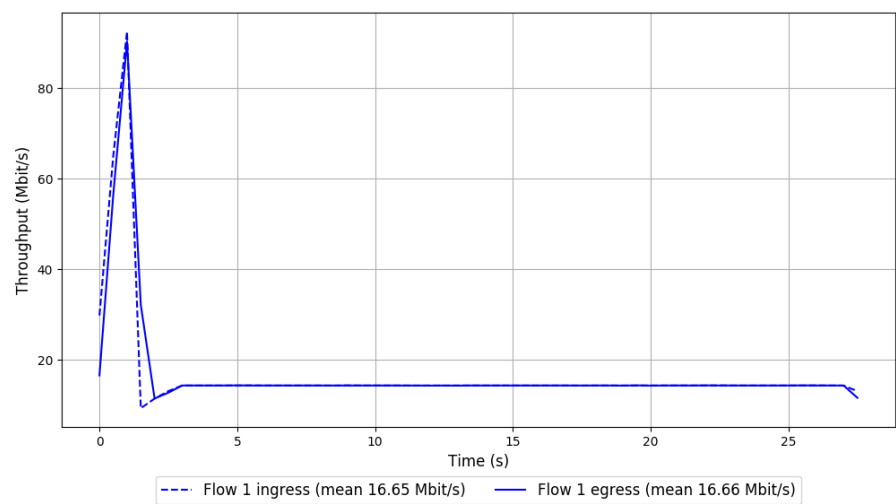


```
Run 10: Statistics of TaoVA-100x

Start at: 2017-11-30 11:49:01
End at: 2017-11-30 11:49:31

# Below is generated by plot.py at 2017-11-30 14:13:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 16.66 Mbit/s
95th percentile per-packet one-way delay: 53.689 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 16.66 Mbit/s
95th percentile per-packet one-way delay: 53.689 ms
Loss rate: 0.32%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2017-11-30 10:23:40

End at: 2017-11-30 10:24:10

Below is generated by plot.py at 2017-11-30 14:13:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 19.21 Mbit/s

95th percentile per-packet one-way delay: 54.321 ms

Loss rate: 0.81%

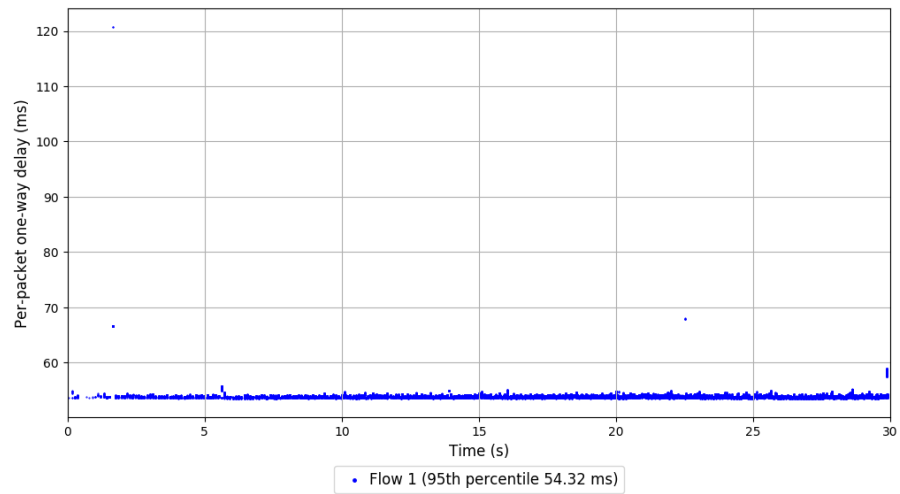
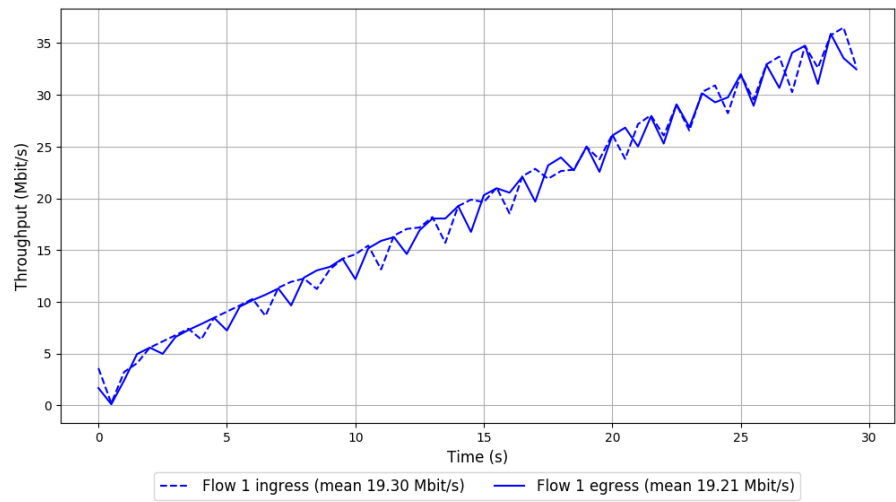
-- Flow 1:

Average throughput: 19.21 Mbit/s

95th percentile per-packet one-way delay: 54.321 ms

Loss rate: 0.81%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2017-11-30 10:34:17

End at: 2017-11-30 10:34:47

Below is generated by plot.py at 2017-11-30 14:13:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.13 Mbit/s

95th percentile per-packet one-way delay: 54.323 ms

Loss rate: 0.61%

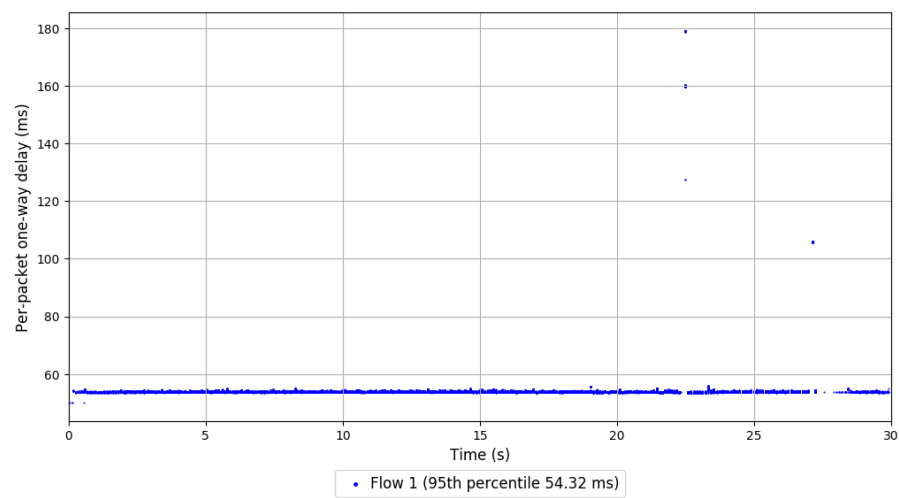
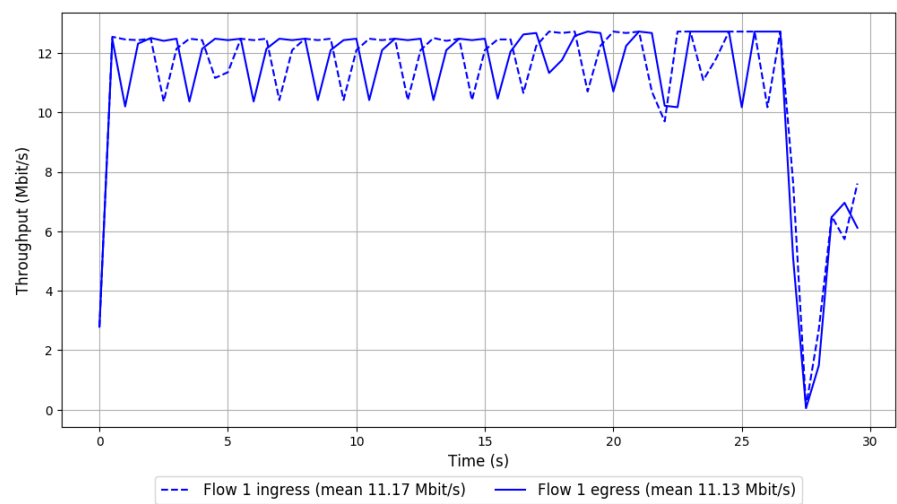
-- Flow 1:

Average throughput: 11.13 Mbit/s

95th percentile per-packet one-way delay: 54.323 ms

Loss rate: 0.61%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2017-11-30 10:44:42

End at: 2017-11-30 10:45:12

Below is generated by plot.py at 2017-11-30 14:13:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.16 Mbit/s

95th percentile per-packet one-way delay: 57.597 ms

Loss rate: 0.25%

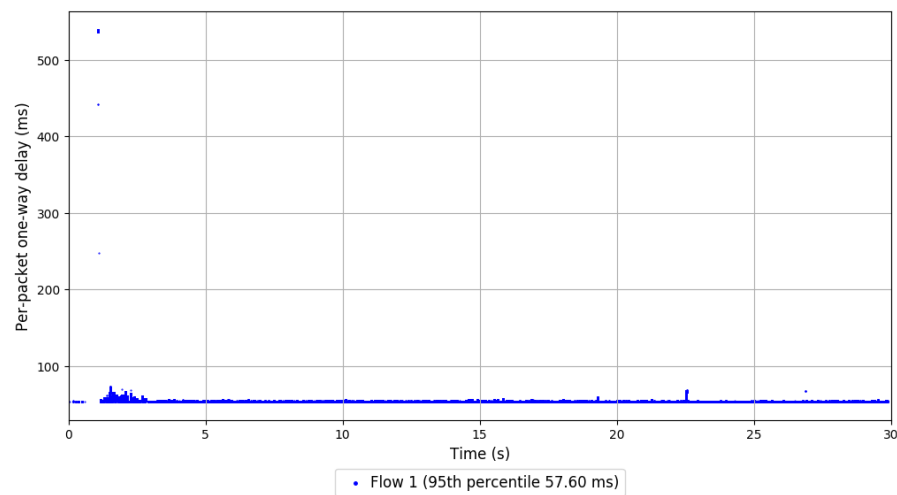
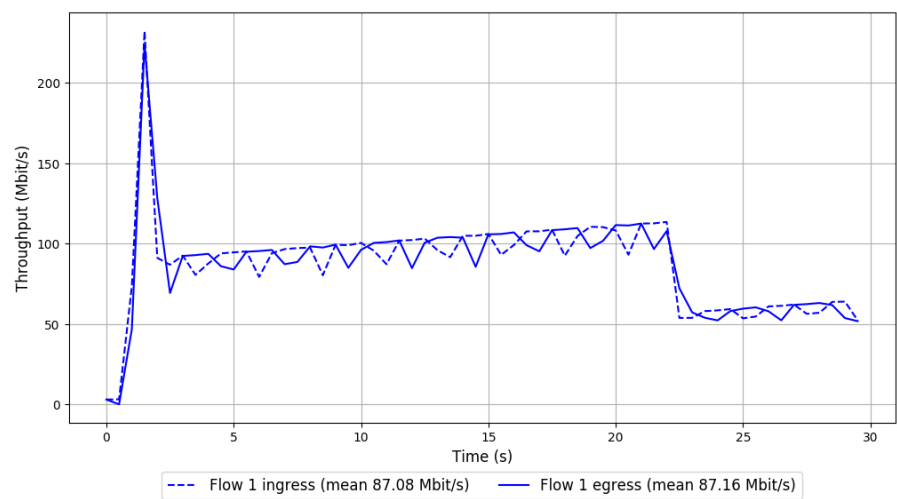
-- Flow 1:

Average throughput: 87.16 Mbit/s

95th percentile per-packet one-way delay: 57.597 ms

Loss rate: 0.25%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2017-11-30 10:55:03

End at: 2017-11-30 10:55:33

Below is generated by plot.py at 2017-11-30 14:13:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.25 Mbit/s

95th percentile per-packet one-way delay: 54.073 ms

Loss rate: 0.29%

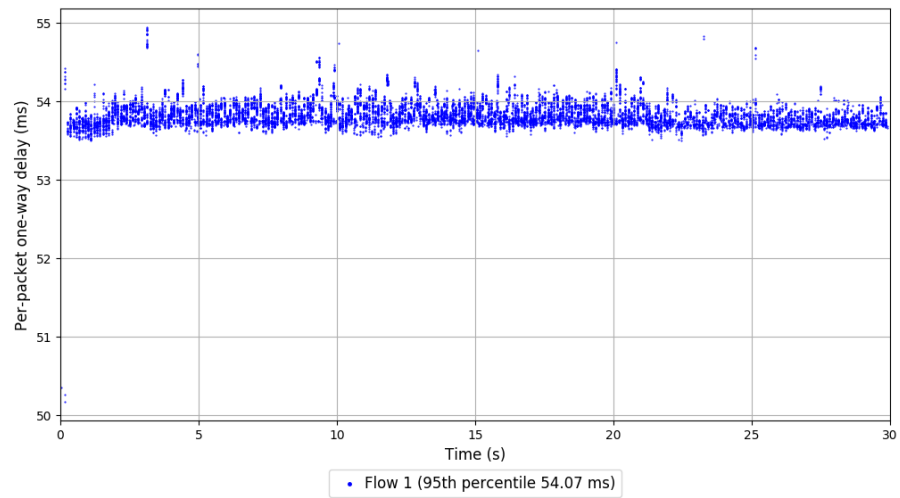
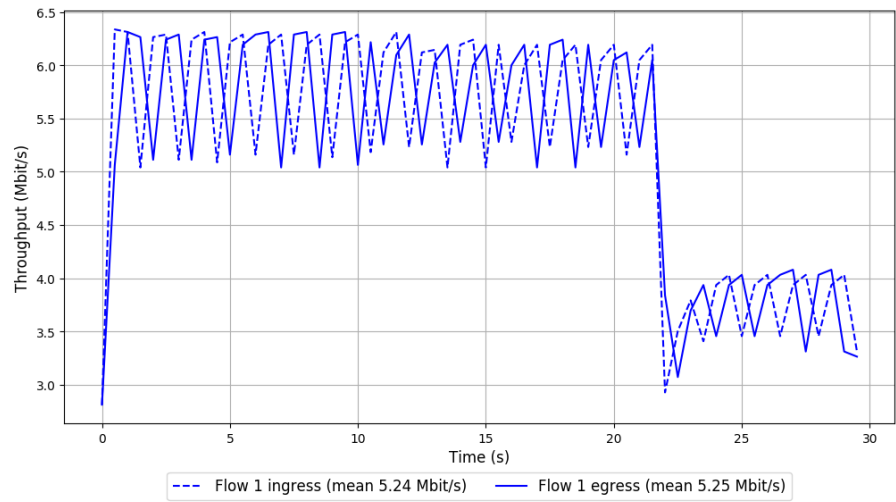
-- Flow 1:

Average throughput: 5.25 Mbit/s

95th percentile per-packet one-way delay: 54.073 ms

Loss rate: 0.29%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2017-11-30 11:05:28

End at: 2017-11-30 11:05:58

Below is generated by plot.py at 2017-11-30 14:13:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 47.12 Mbit/s

95th percentile per-packet one-way delay: 54.665 ms

Loss rate: 0.22%

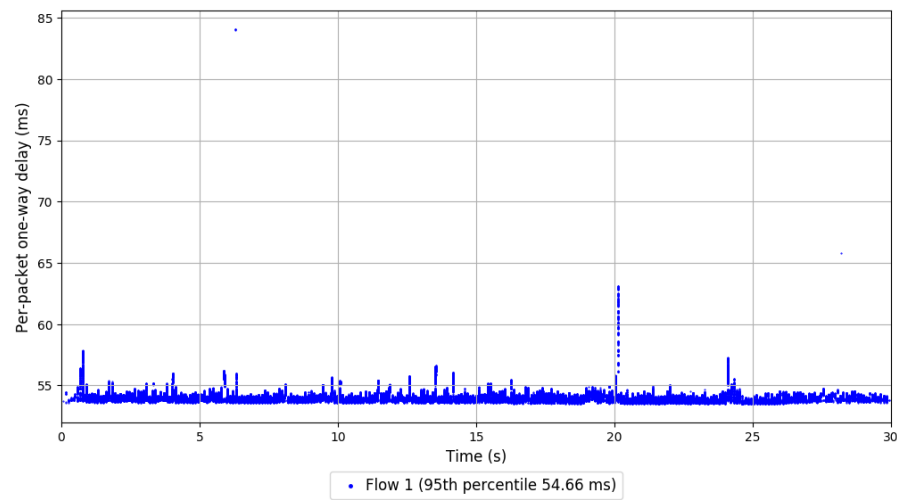
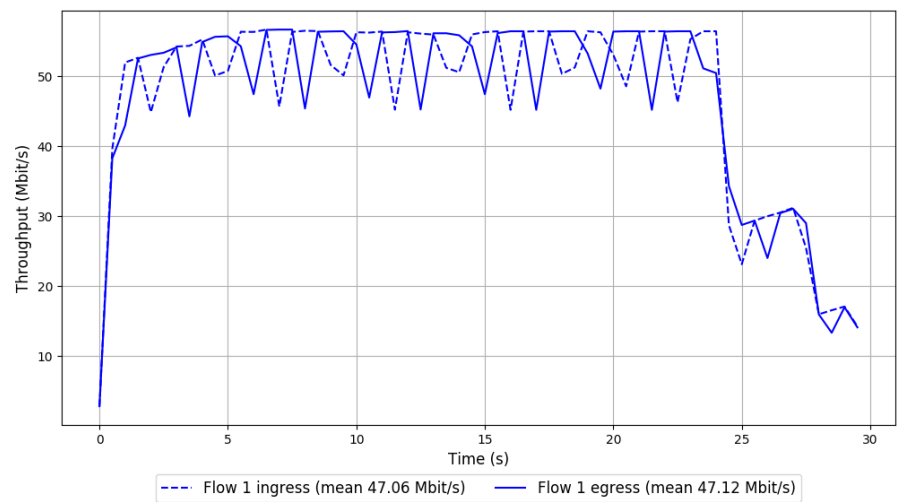
-- Flow 1:

Average throughput: 47.12 Mbit/s

95th percentile per-packet one-way delay: 54.665 ms

Loss rate: 0.22%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2017-11-30 11:16:03

End at: 2017-11-30 11:16:33

Below is generated by plot.py at 2017-11-30 14:13:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 61.35 Mbit/s

95th percentile per-packet one-way delay: 57.611 ms

Loss rate: 0.30%

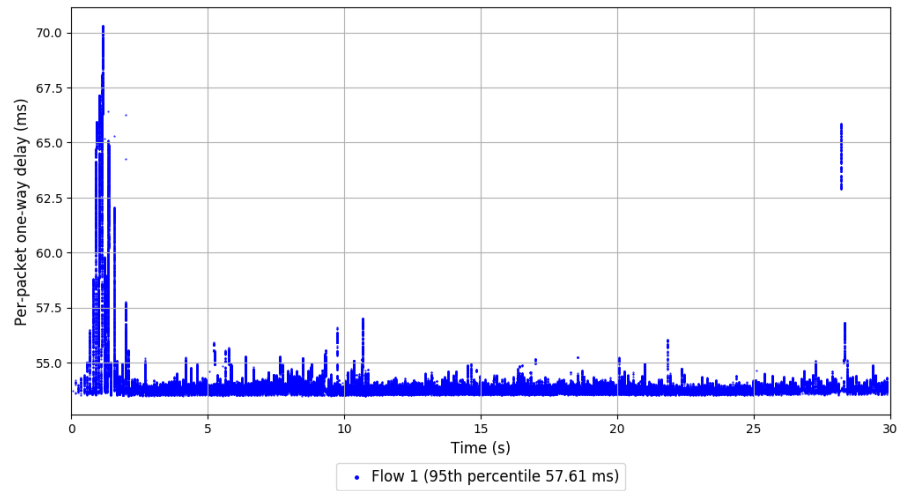
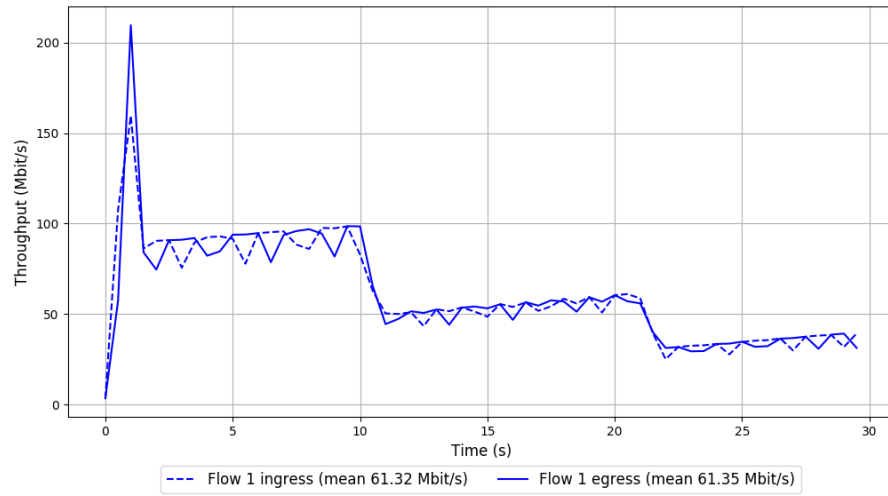
-- Flow 1:

Average throughput: 61.35 Mbit/s

95th percentile per-packet one-way delay: 57.611 ms

Loss rate: 0.30%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2017-11-30 11:26:38

End at: 2017-11-30 11:27:08

Below is generated by plot.py at 2017-11-30 14:13:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 68.68 Mbit/s

95th percentile per-packet one-way delay: 54.758 ms

Loss rate: 0.33%

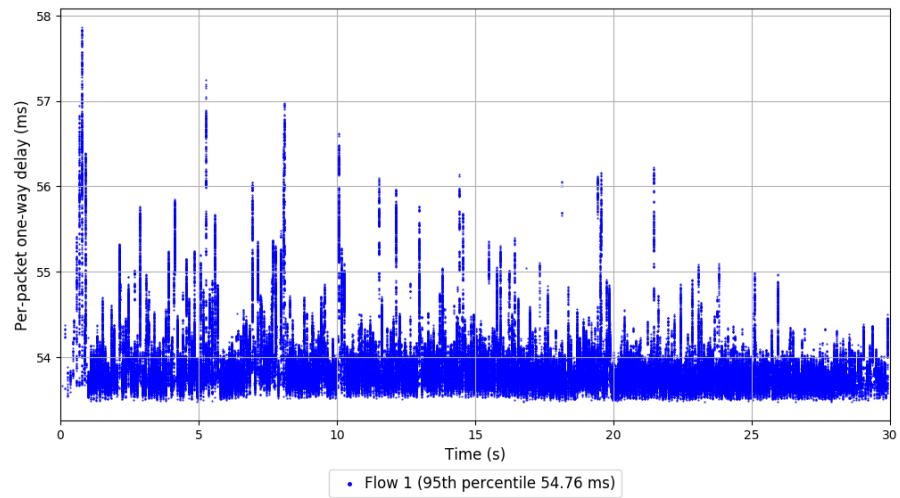
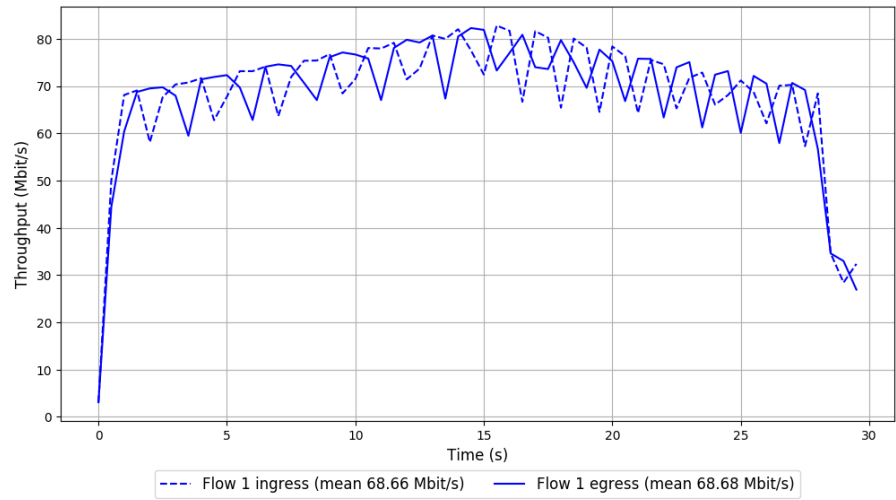
-- Flow 1:

Average throughput: 68.68 Mbit/s

95th percentile per-packet one-way delay: 54.758 ms

Loss rate: 0.33%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2017-11-30 11:37:15

End at: 2017-11-30 11:37:45

Below is generated by plot.py at 2017-11-30 14:13:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 63.17 Mbit/s

95th percentile per-packet one-way delay: 54.790 ms

Loss rate: 0.73%

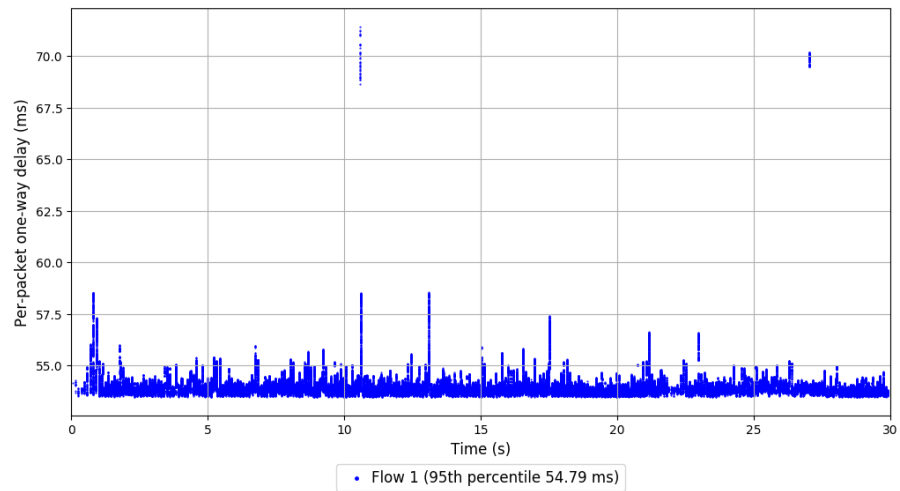
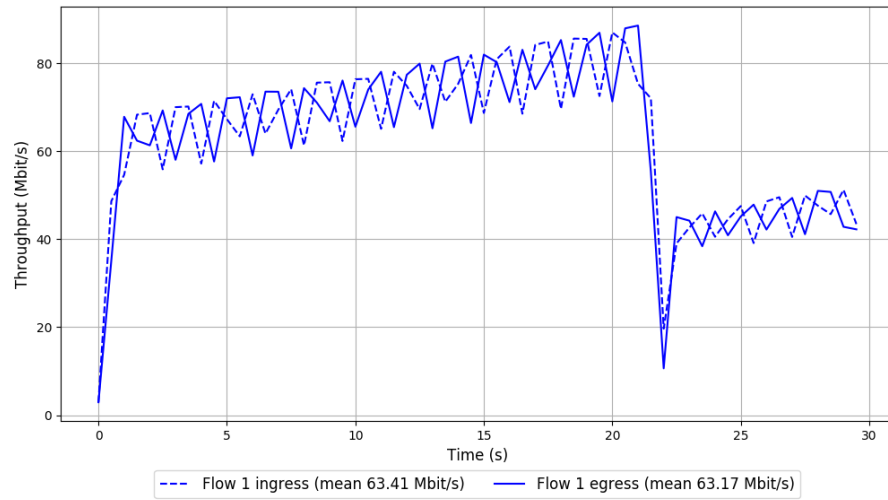
-- Flow 1:

Average throughput: 63.17 Mbit/s

95th percentile per-packet one-way delay: 54.790 ms

Loss rate: 0.73%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2017-11-30 11:47:35

End at: 2017-11-30 11:48:05

Below is generated by plot.py at 2017-11-30 14:13:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 10.11 Mbit/s

95th percentile per-packet one-way delay: 54.319 ms

Loss rate: 0.85%

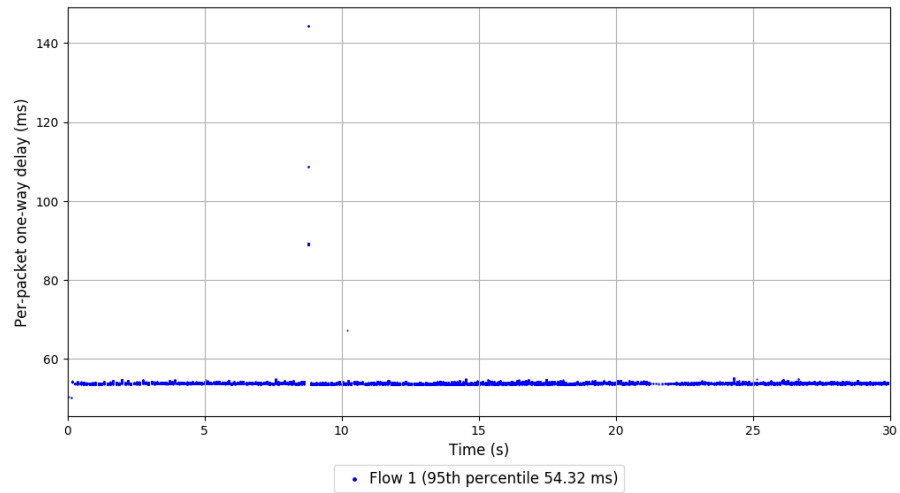
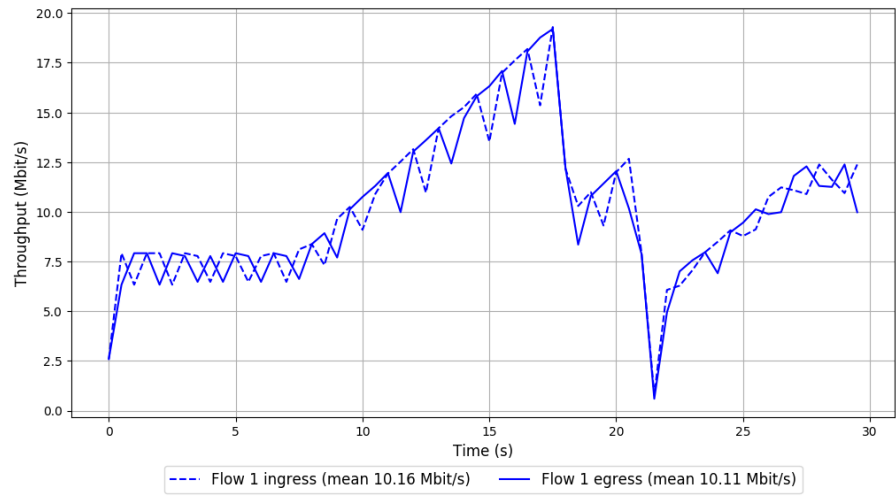
-- Flow 1:

Average throughput: 10.11 Mbit/s

95th percentile per-packet one-way delay: 54.319 ms

Loss rate: 0.85%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2017-11-30 11:57:52

End at: 2017-11-30 11:58:22

Below is generated by plot.py at 2017-11-30 14:13:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 53.30 Mbit/s

95th percentile per-packet one-way delay: 54.519 ms

Loss rate: 0.32%

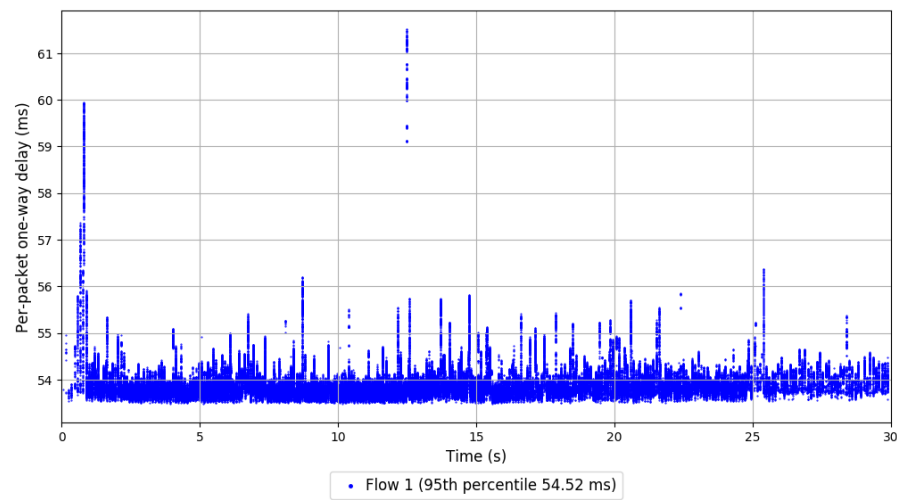
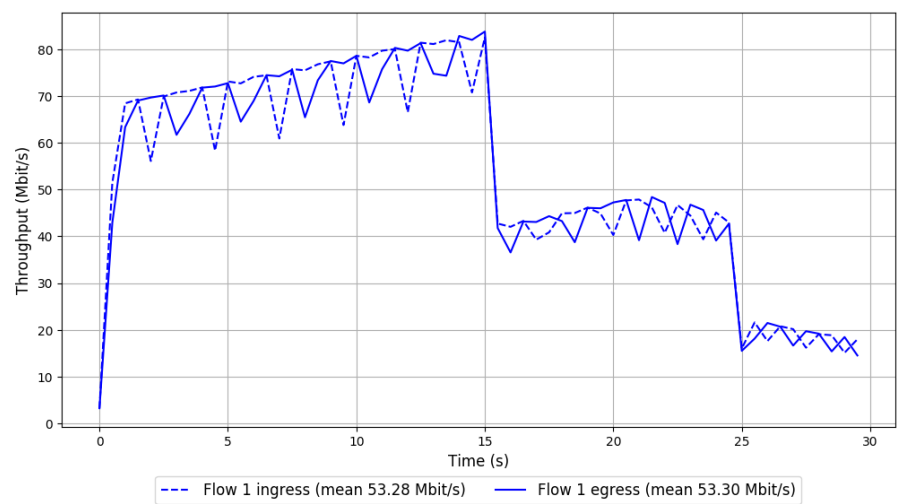
-- Flow 1:

Average throughput: 53.30 Mbit/s

95th percentile per-packet one-way delay: 54.519 ms

Loss rate: 0.32%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2017-11-30 10:19:50

End at: 2017-11-30 10:20:20

Below is generated by plot.py at 2017-11-30 14:16:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 270.95 Mbit/s

95th percentile per-packet one-way delay: 146.463 ms

Loss rate: 0.17%

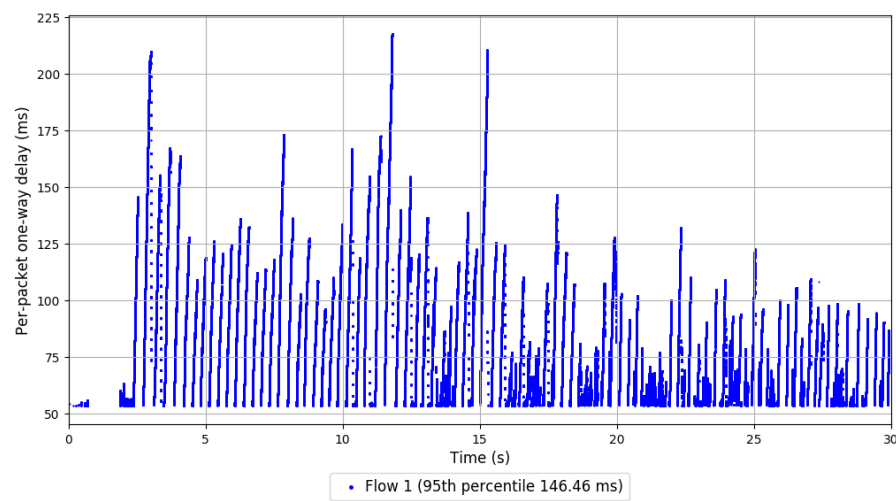
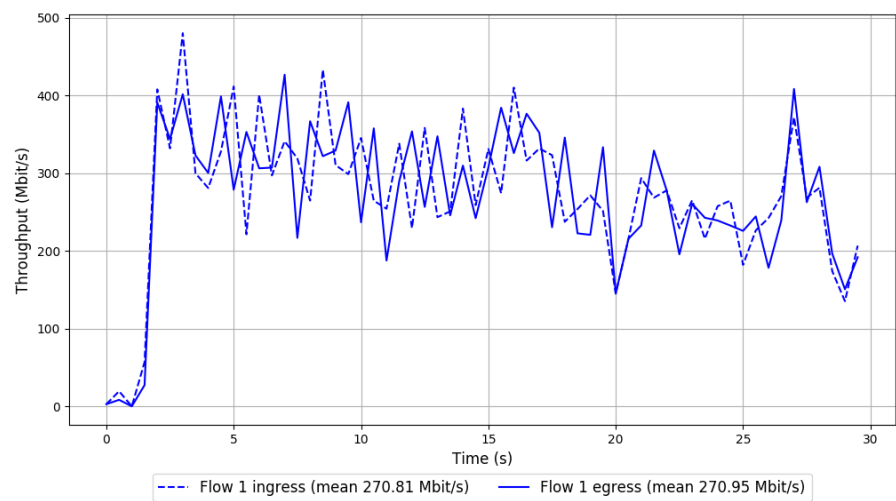
-- Flow 1:

Average throughput: 270.95 Mbit/s

95th percentile per-packet one-way delay: 146.463 ms

Loss rate: 0.17%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2017-11-30 10:30:23

End at: 2017-11-30 10:30:53

Below is generated by plot.py at 2017-11-30 14:17:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 304.62 Mbit/s

95th percentile per-packet one-way delay: 82.999 ms

Loss rate: 0.16%

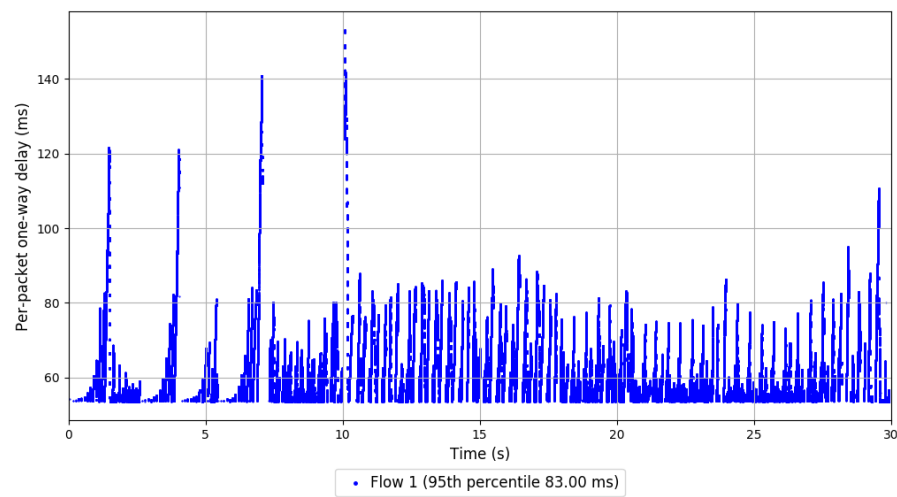
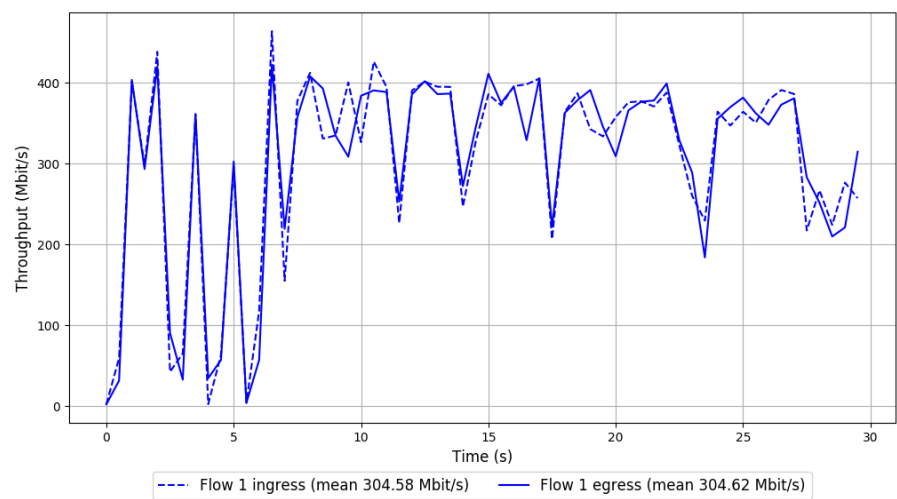
-- Flow 1:

Average throughput: 304.62 Mbit/s

95th percentile per-packet one-way delay: 82.999 ms

Loss rate: 0.16%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2017-11-30 10:40:57

End at: 2017-11-30 10:41:27

Below is generated by plot.py at 2017-11-30 14:17:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 214.66 Mbit/s

95th percentile per-packet one-way delay: 101.453 ms

Loss rate: 0.67%

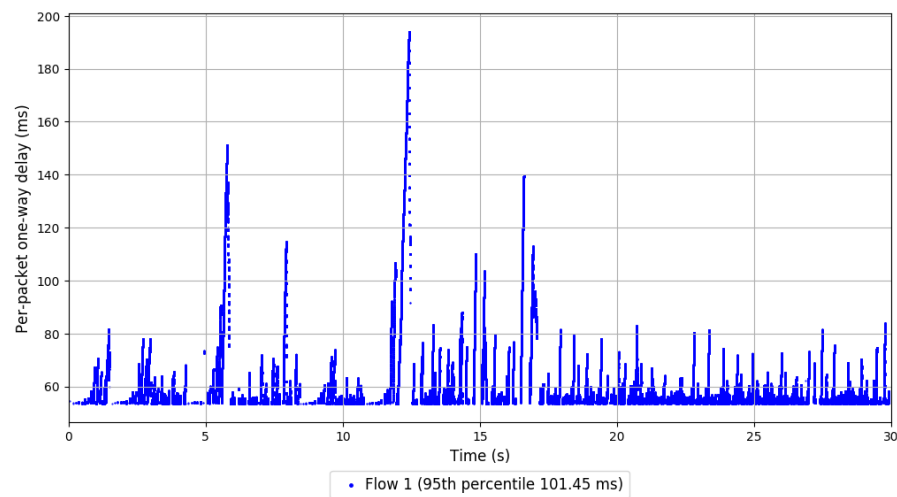
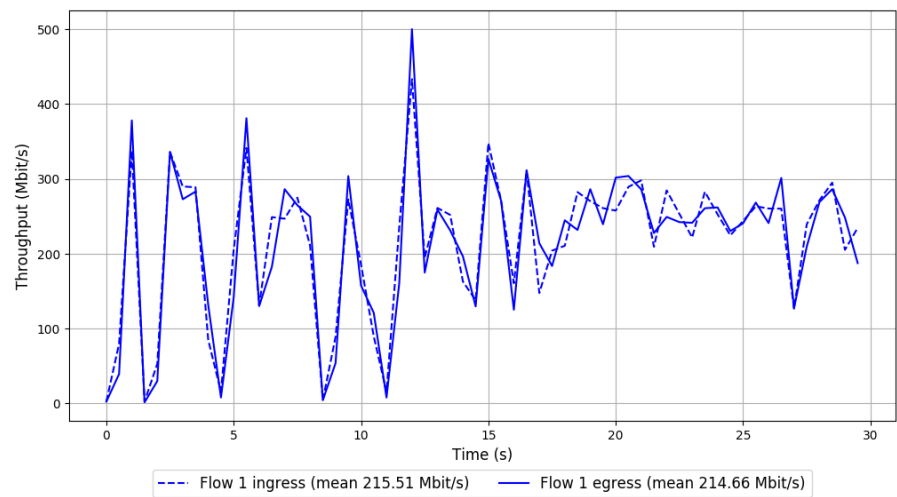
-- Flow 1:

Average throughput: 214.66 Mbit/s

95th percentile per-packet one-way delay: 101.453 ms

Loss rate: 0.67%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2017-11-30 10:51:15

End at: 2017-11-30 10:51:45

Below is generated by plot.py at 2017-11-30 14:17:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 249.34 Mbit/s

95th percentile per-packet one-way delay: 111.568 ms

Loss rate: 0.00%

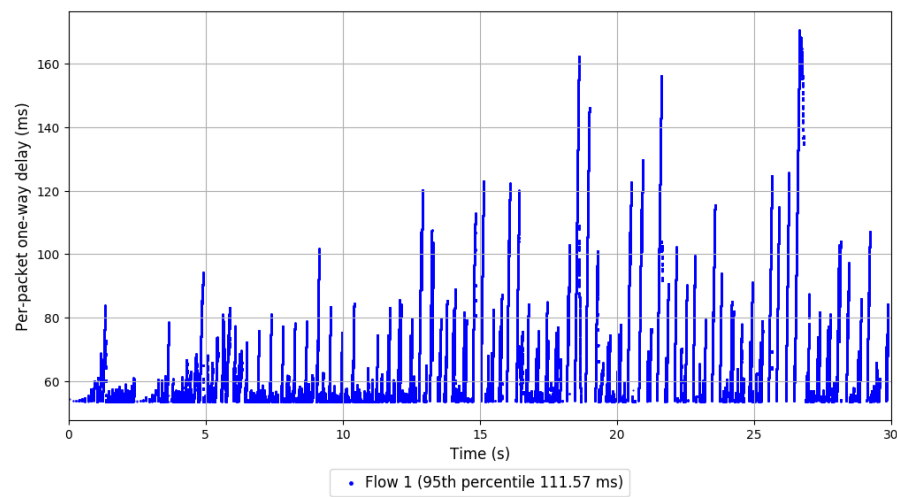
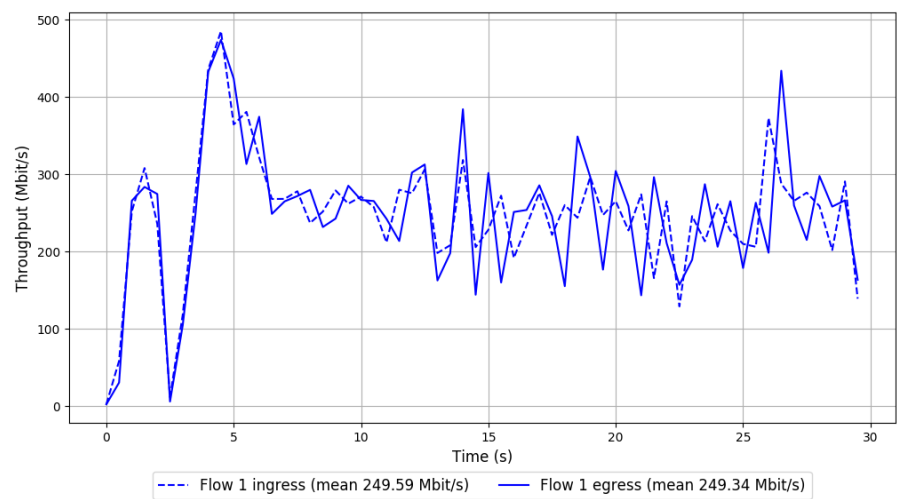
-- Flow 1:

Average throughput: 249.34 Mbit/s

95th percentile per-packet one-way delay: 111.568 ms

Loss rate: 0.00%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2017-11-30 11:01:41

End at: 2017-11-30 11:02:11

Below is generated by plot.py at 2017-11-30 14:17:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 229.86 Mbit/s

95th percentile per-packet one-way delay: 93.224 ms

Loss rate: 1.97%

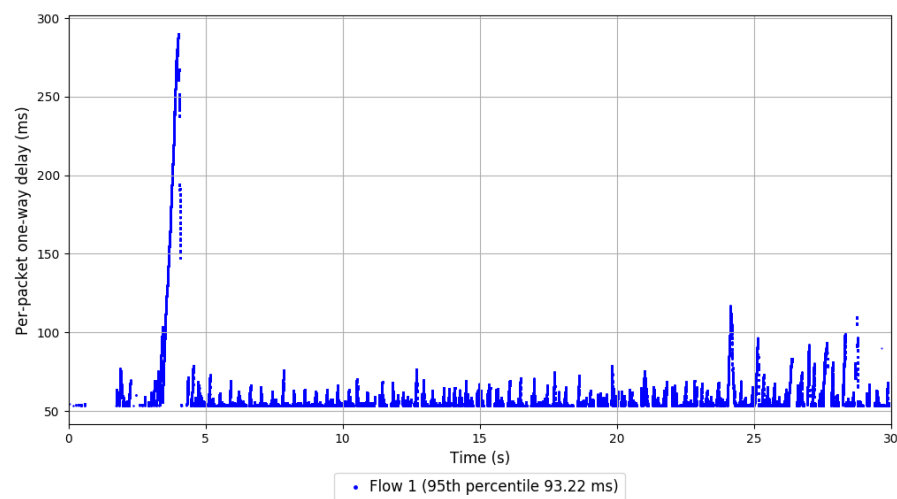
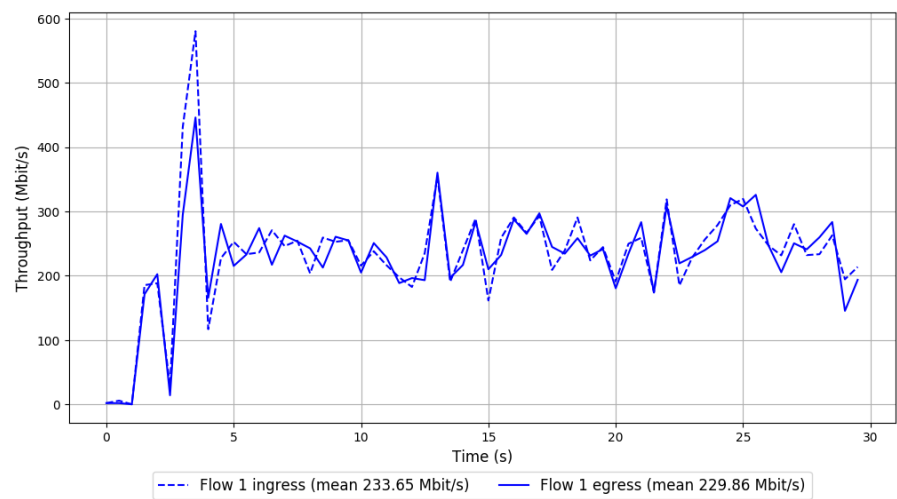
-- Flow 1:

Average throughput: 229.86 Mbit/s

95th percentile per-packet one-way delay: 93.224 ms

Loss rate: 1.97%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

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

End at: 2017-11-30 11:12:45

Below is generated by plot.py at 2017-11-30 14:17:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 242.61 Mbit/s

95th percentile per-packet one-way delay: 104.382 ms

Loss rate: 1.14%

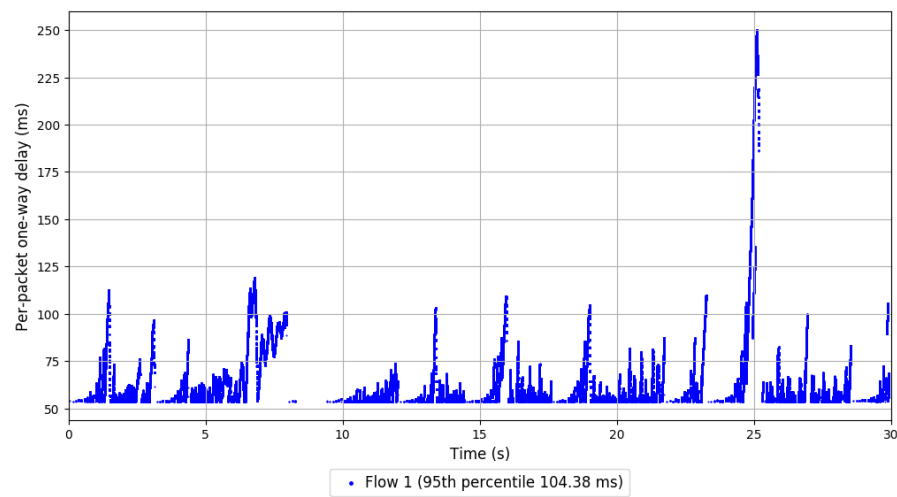
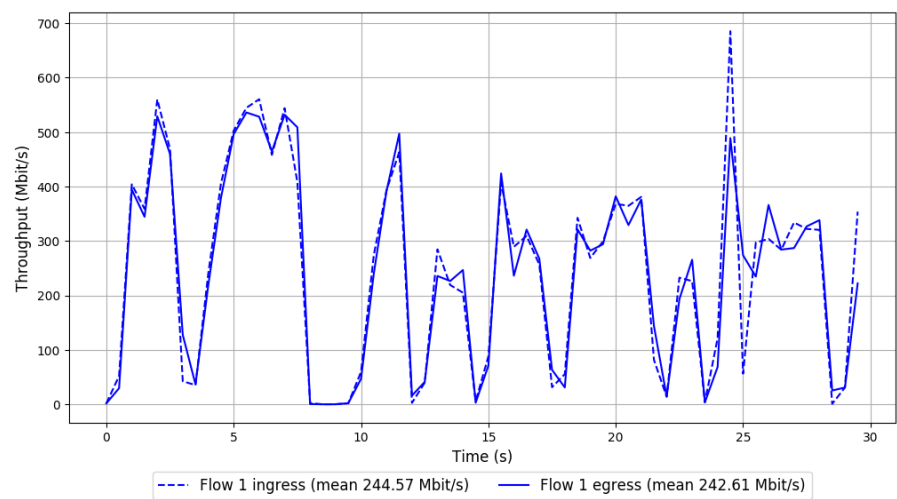
-- Flow 1:

Average throughput: 242.61 Mbit/s

95th percentile per-packet one-way delay: 104.382 ms

Loss rate: 1.14%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2017-11-30 11:22:46

End at: 2017-11-30 11:23:16

Below is generated by plot.py at 2017-11-30 14:18:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 314.22 Mbit/s

95th percentile per-packet one-way delay: 76.812 ms

Loss rate: 0.95%

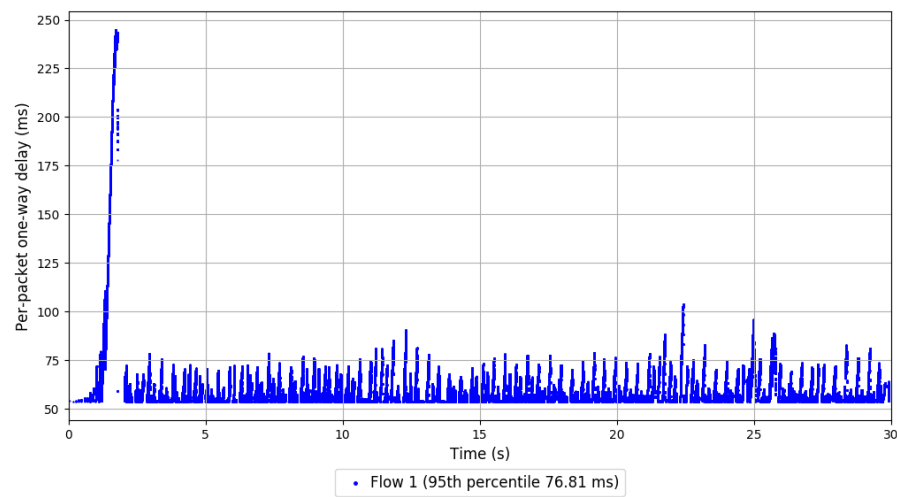
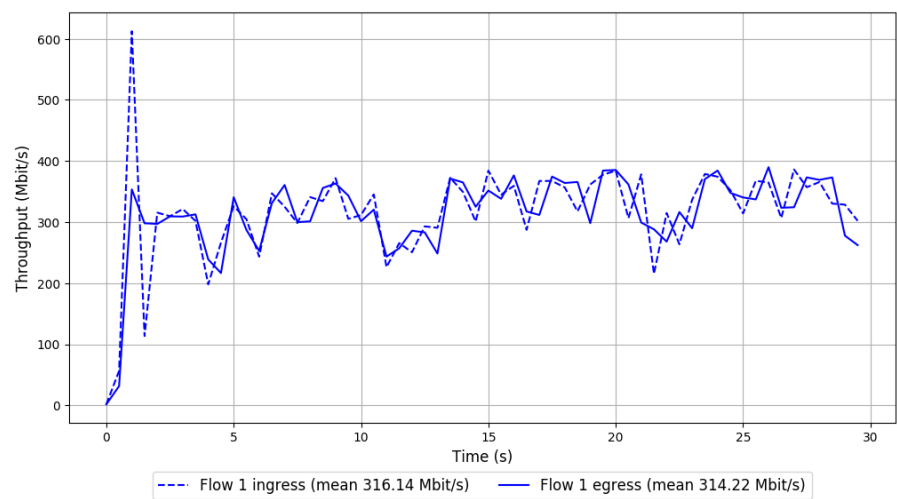
-- Flow 1:

Average throughput: 314.22 Mbit/s

95th percentile per-packet one-way delay: 76.812 ms

Loss rate: 0.95%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2017-11-30 11:33:25

End at: 2017-11-30 11:33:55

Below is generated by plot.py at 2017-11-30 14:18:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 258.03 Mbit/s

95th percentile per-packet one-way delay: 88.495 ms

Loss rate: 0.11%

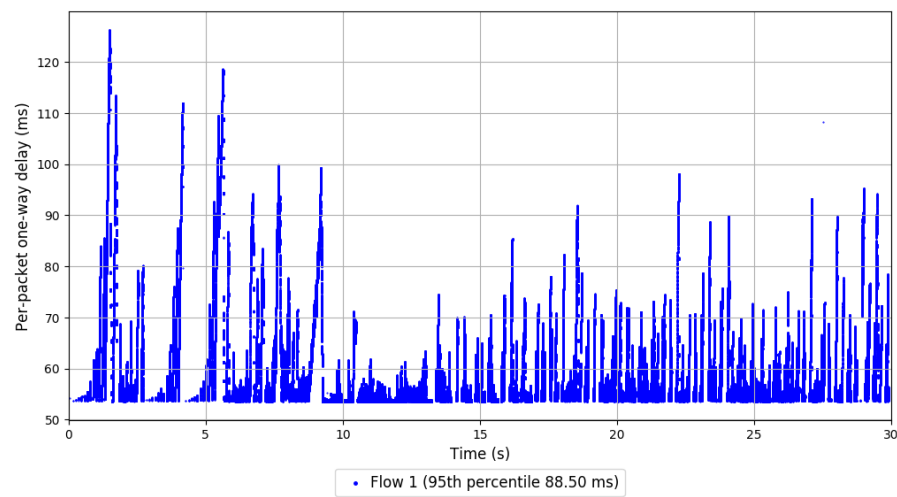
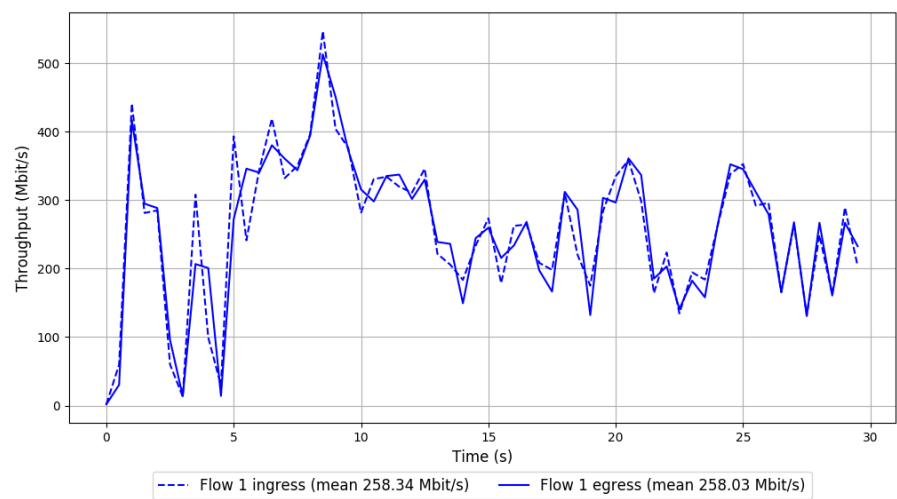
-- Flow 1:

Average throughput: 258.03 Mbit/s

95th percentile per-packet one-way delay: 88.495 ms

Loss rate: 0.11%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2017-11-30 11:43:48

End at: 2017-11-30 11:44:18

Below is generated by plot.py at 2017-11-30 14:20:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 246.51 Mbit/s

95th percentile per-packet one-way delay: 111.924 ms

Loss rate: 3.91%

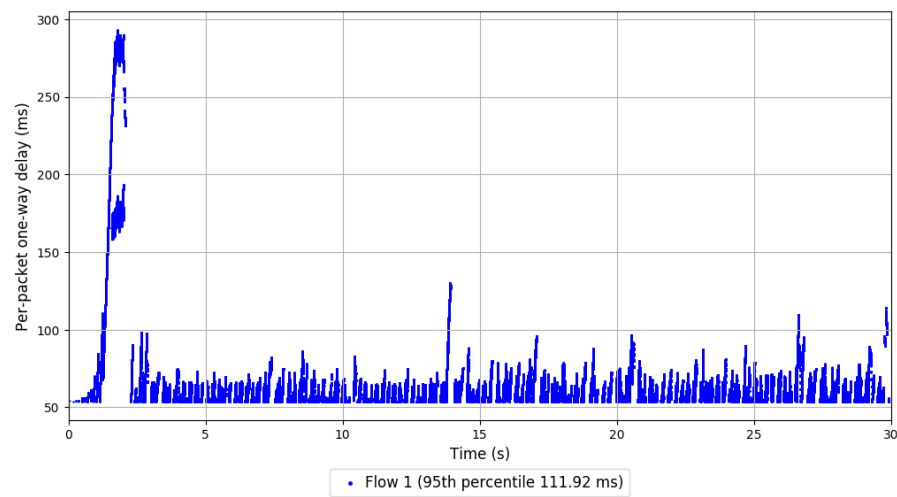
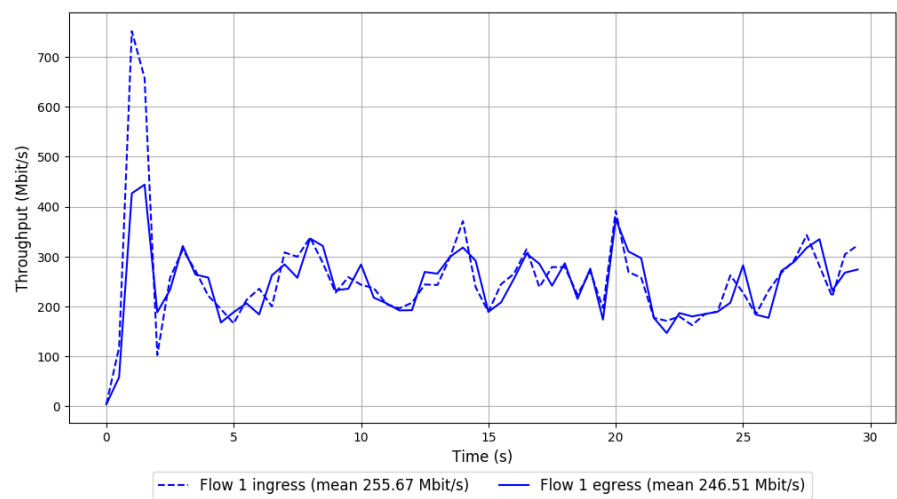
-- Flow 1:

Average throughput: 246.51 Mbit/s

95th percentile per-packet one-way delay: 111.924 ms

Loss rate: 3.91%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2017-11-30 11:54:02

End at: 2017-11-30 11:54:32

Below is generated by plot.py at 2017-11-30 14:21:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 276.65 Mbit/s

95th percentile per-packet one-way delay: 84.931 ms

Loss rate: 1.04%

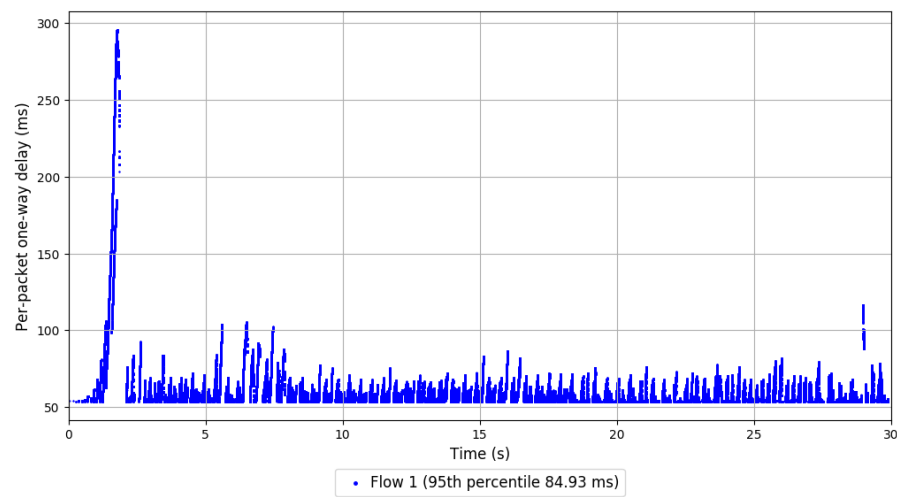
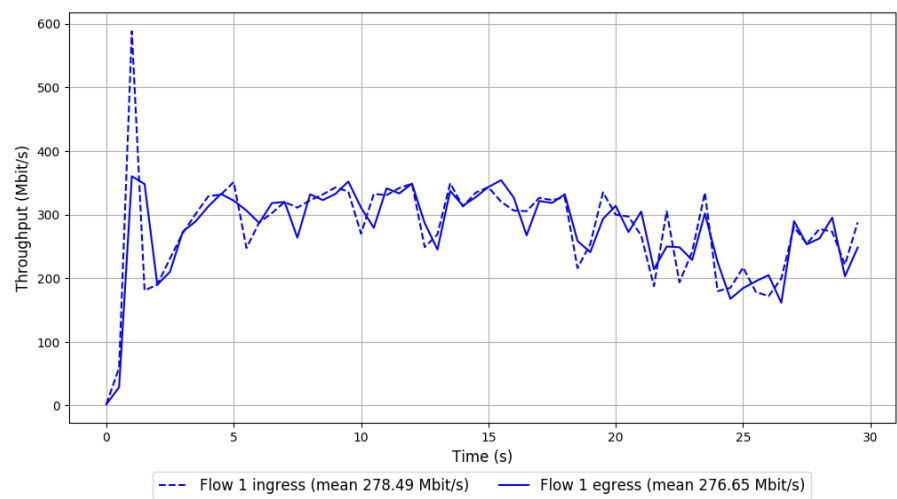
-- Flow 1:

Average throughput: 276.65 Mbit/s

95th percentile per-packet one-way delay: 84.931 ms

Loss rate: 1.04%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2017-11-30 10:18:08

End at: 2017-11-30 10:18:38

Below is generated by plot.py at 2017-11-30 14:21:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.43 Mbit/s

95th percentile per-packet one-way delay: 53.730 ms

Loss rate: 0.35%

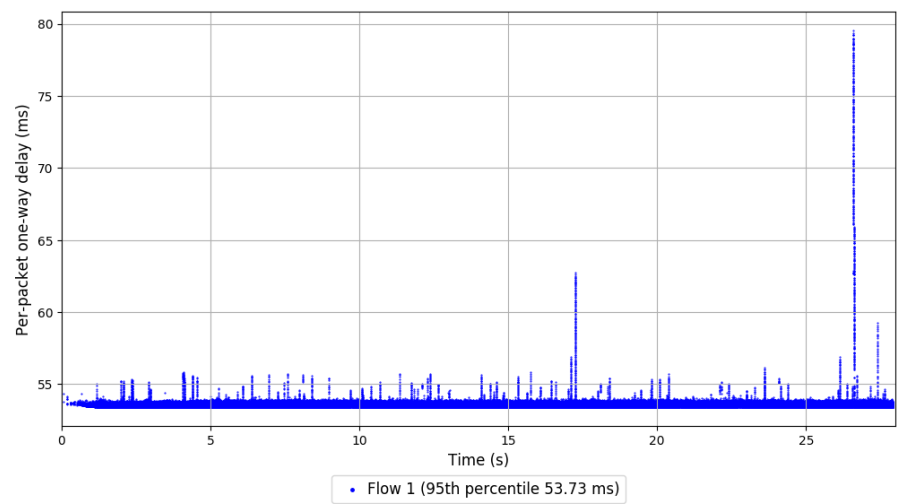
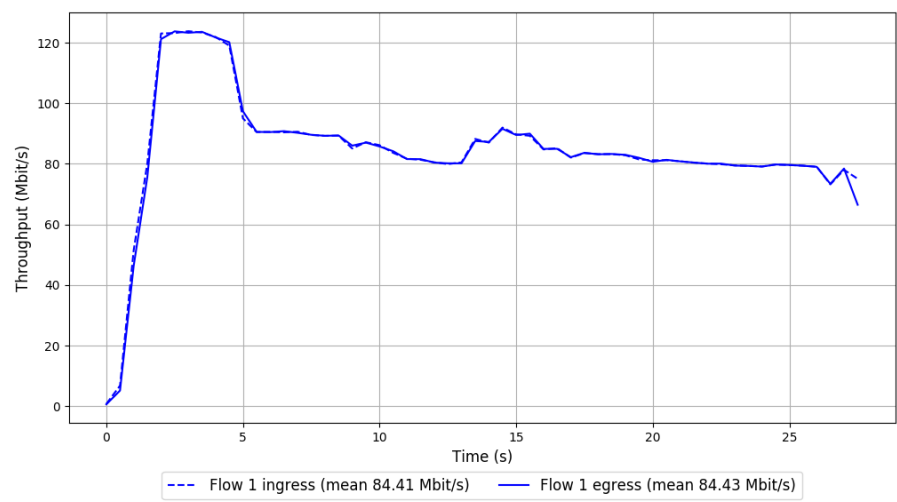
-- Flow 1:

Average throughput: 84.43 Mbit/s

95th percentile per-packet one-way delay: 53.730 ms

Loss rate: 0.35%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2017-11-30 10:28:41

End at: 2017-11-30 10:29:11

Below is generated by plot.py at 2017-11-30 14:21:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.02 Mbit/s

95th percentile per-packet one-way delay: 53.735 ms

Loss rate: 0.50%

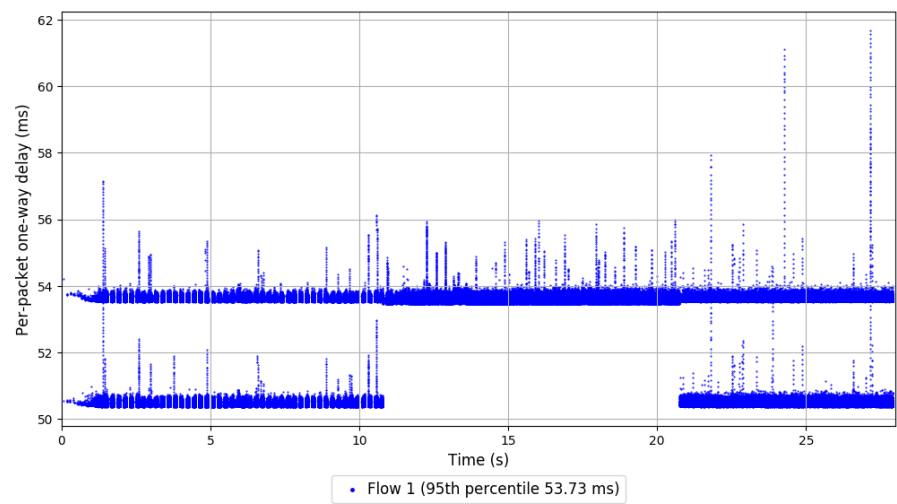
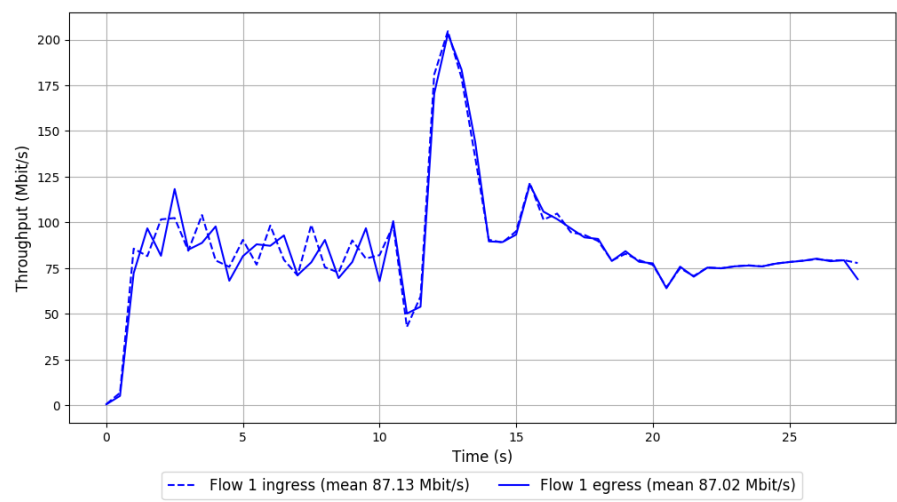
-- Flow 1:

Average throughput: 87.02 Mbit/s

95th percentile per-packet one-way delay: 53.735 ms

Loss rate: 0.50%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2017-11-30 10:39:20

End at: 2017-11-30 10:39:50

Below is generated by plot.py at 2017-11-30 14:21:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 37.73 Mbit/s

95th percentile per-packet one-way delay: 53.658 ms

Loss rate: 0.09%

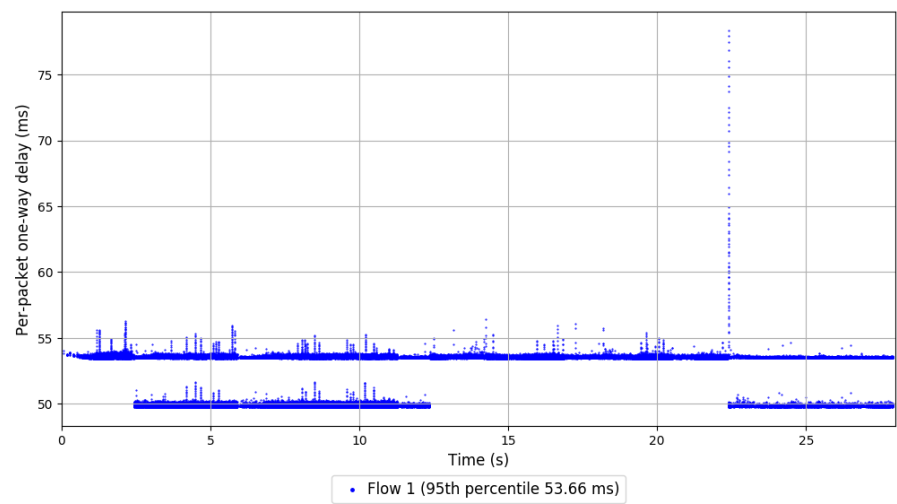
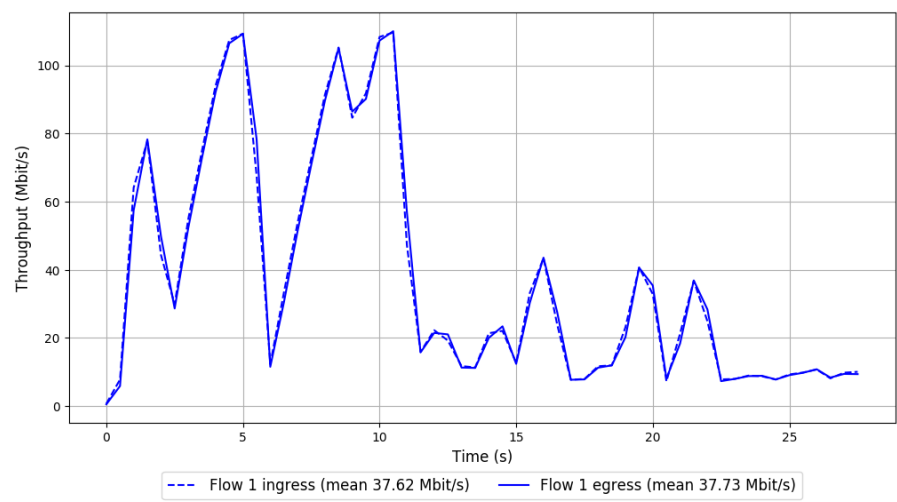
-- Flow 1:

Average throughput: 37.73 Mbit/s

95th percentile per-packet one-way delay: 53.658 ms

Loss rate: 0.09%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2017-11-30 10:49:33

End at: 2017-11-30 10:50:03

Below is generated by plot.py at 2017-11-30 14:21:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 89.76 Mbit/s

95th percentile per-packet one-way delay: 53.669 ms

Loss rate: 0.34%

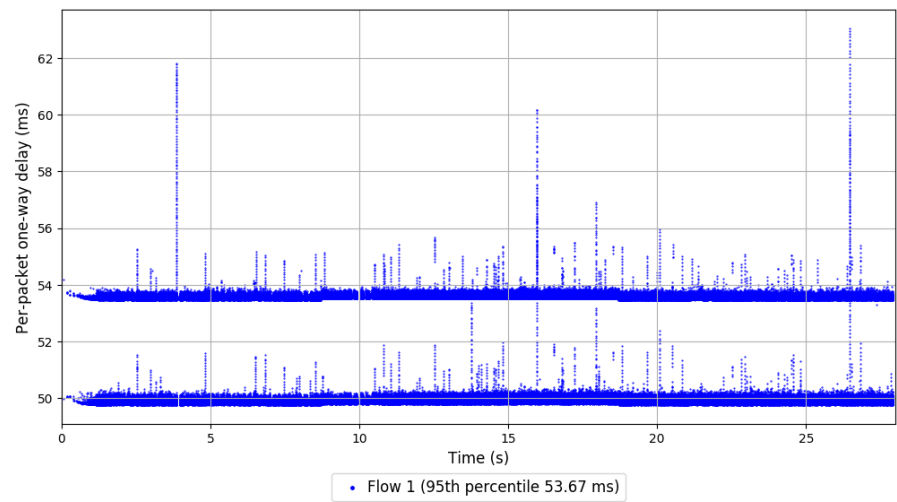
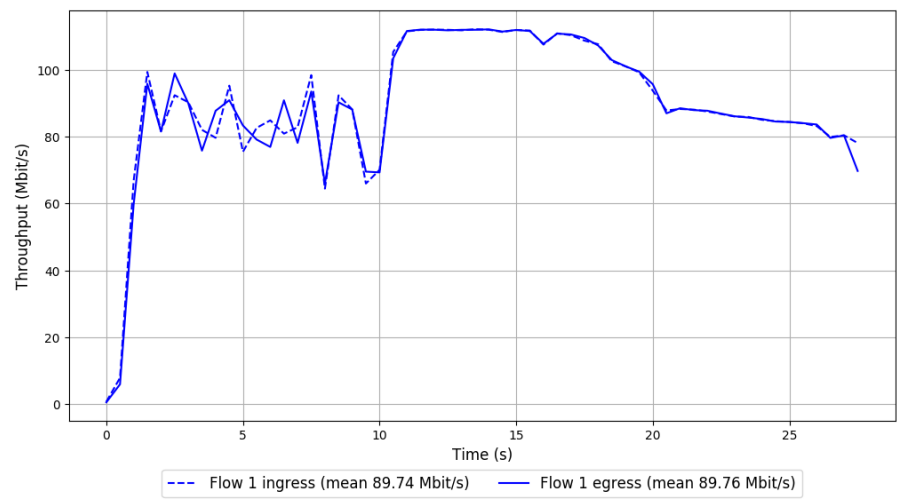
-- Flow 1:

Average throughput: 89.76 Mbit/s

95th percentile per-packet one-way delay: 53.669 ms

Loss rate: 0.34%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2017-11-30 10:59:59

End at: 2017-11-30 11:00:29

Below is generated by plot.py at 2017-11-30 14:21:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.70 Mbit/s

95th percentile per-packet one-way delay: 53.726 ms

Loss rate: 0.38%

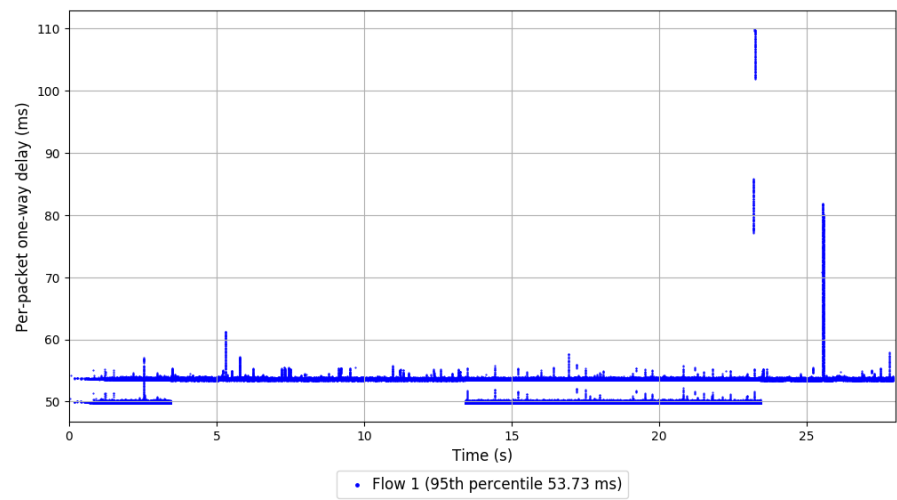
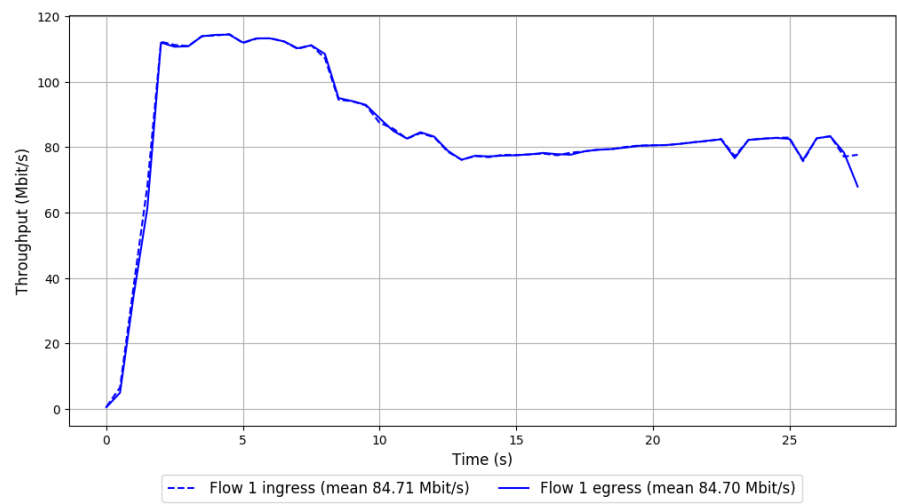
-- Flow 1:

Average throughput: 84.70 Mbit/s

95th percentile per-packet one-way delay: 53.726 ms

Loss rate: 0.38%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2017-11-30 11:10:31

End at: 2017-11-30 11:11:01

Below is generated by plot.py at 2017-11-30 14:21:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.19 Mbit/s

95th percentile per-packet one-way delay: 53.783 ms

Loss rate: 0.38%

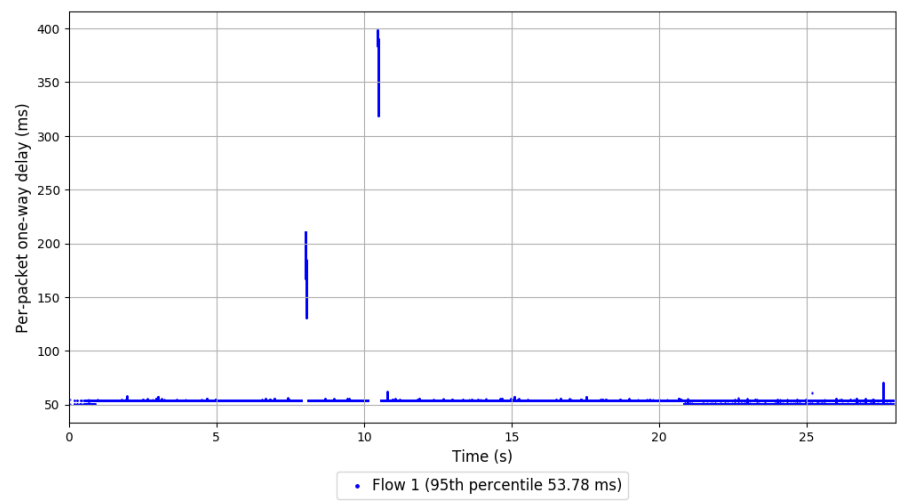
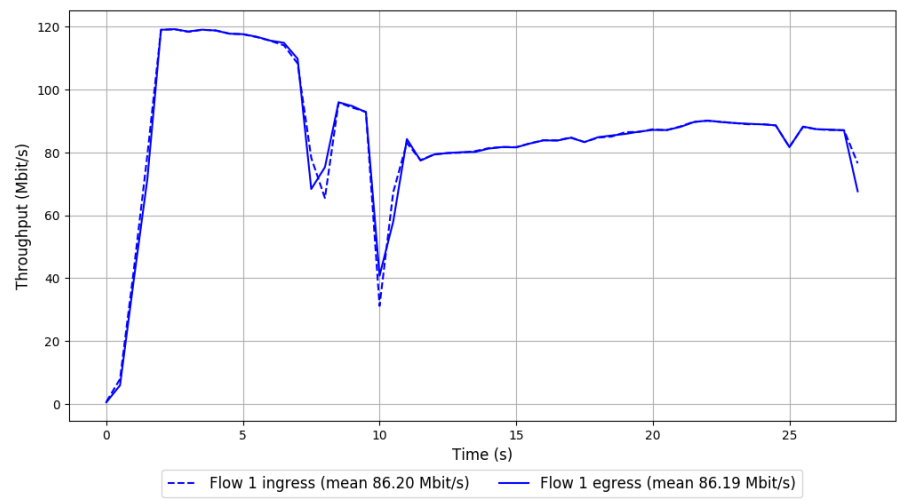
-- Flow 1:

Average throughput: 86.19 Mbit/s

95th percentile per-packet one-way delay: 53.783 ms

Loss rate: 0.38%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2017-11-30 11:21:05

End at: 2017-11-30 11:21:35

Below is generated by plot.py at 2017-11-30 14:21:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 70.95 Mbit/s

95th percentile per-packet one-way delay: 53.722 ms

Loss rate: 0.30%

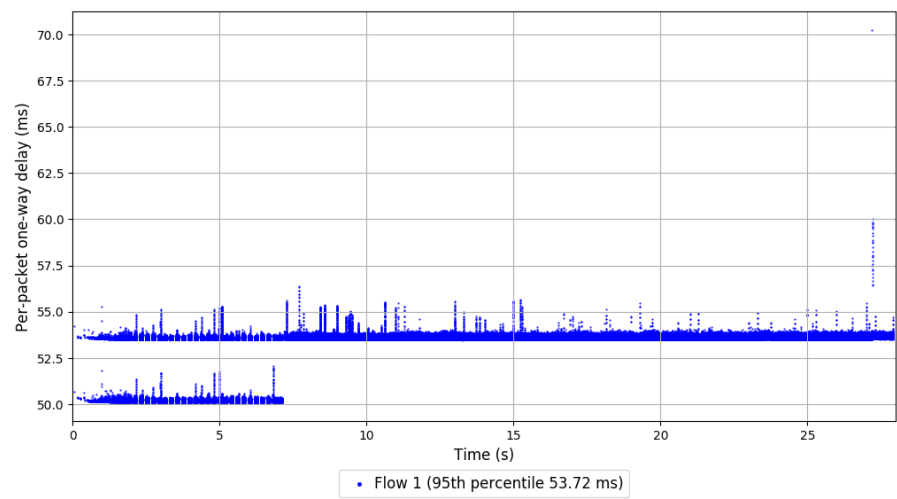
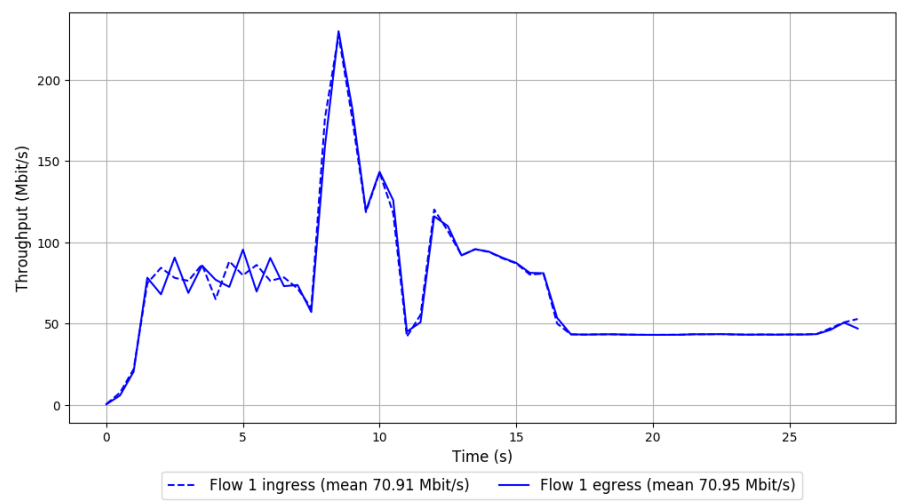
-- Flow 1:

Average throughput: 70.95 Mbit/s

95th percentile per-packet one-way delay: 53.722 ms

Loss rate: 0.30%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2017-11-30 11:31:42

End at: 2017-11-30 11:32:12

Below is generated by plot.py at 2017-11-30 14:21:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.43 Mbit/s

95th percentile per-packet one-way delay: 53.735 ms

Loss rate: 0.36%

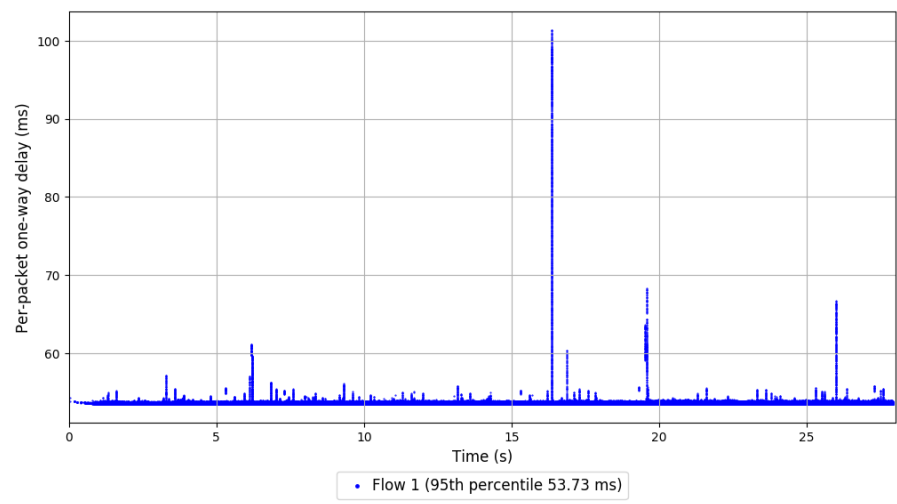
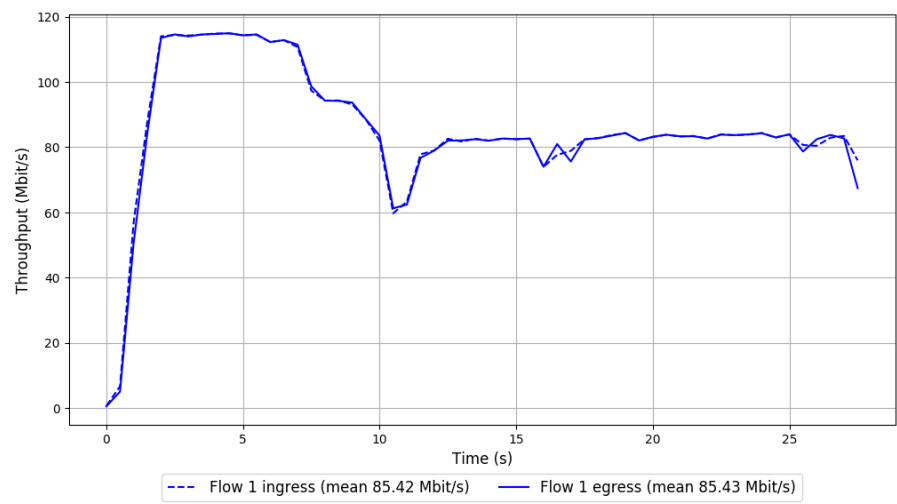
-- Flow 1:

Average throughput: 85.43 Mbit/s

95th percentile per-packet one-way delay: 53.735 ms

Loss rate: 0.36%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2017-11-30 11:42:06

End at: 2017-11-30 11:42:36

Below is generated by plot.py at 2017-11-30 14:21:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 70.17 Mbit/s

95th percentile per-packet one-way delay: 53.750 ms

Loss rate: 0.31%

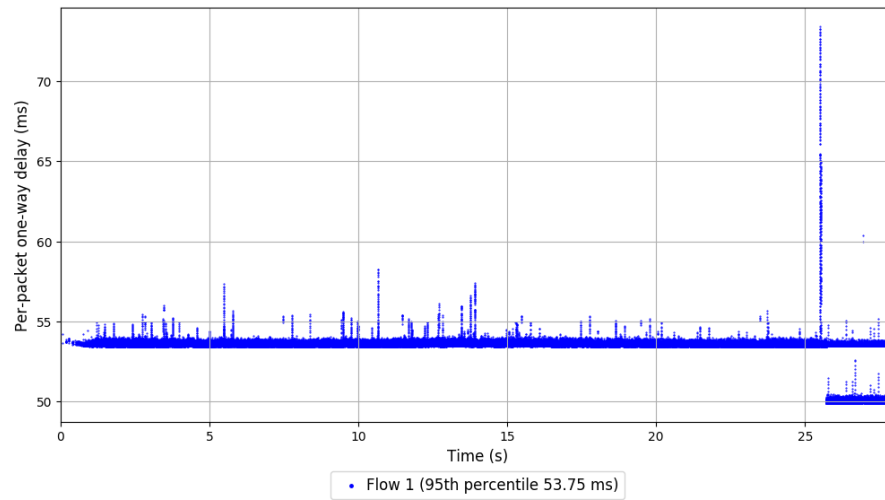
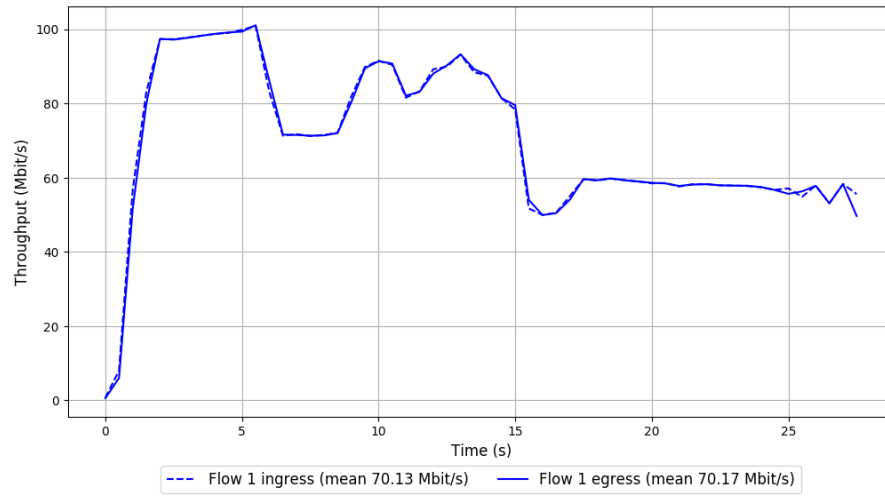
-- Flow 1:

Average throughput: 70.17 Mbit/s

95th percentile per-packet one-way delay: 53.750 ms

Loss rate: 0.31%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2017-11-30 11:52:20

End at: 2017-11-30 11:52:50

Below is generated by plot.py at 2017-11-30 14:22:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.38 Mbit/s

95th percentile per-packet one-way delay: 53.730 ms

Loss rate: 0.41%

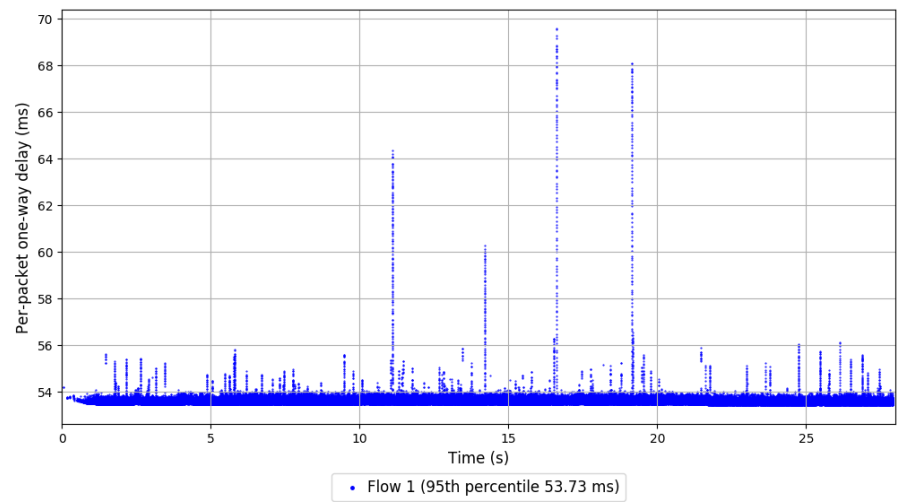
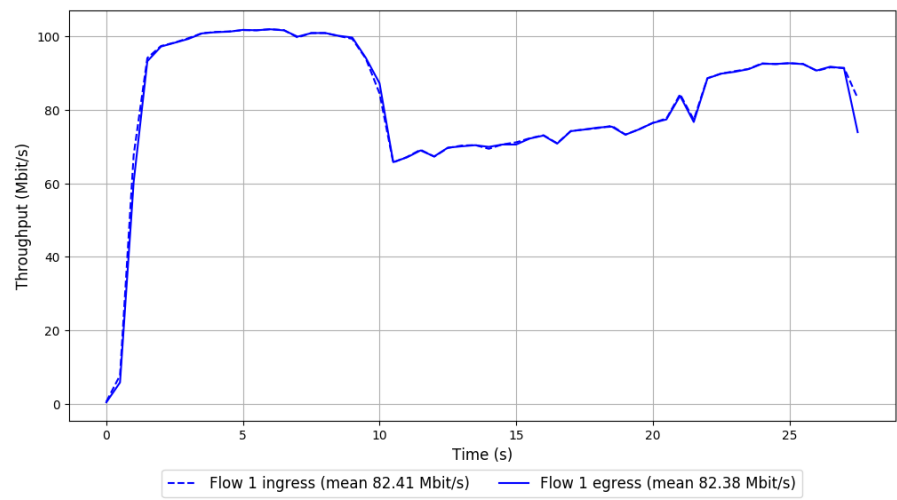
-- Flow 1:

Average throughput: 82.38 Mbit/s

95th percentile per-packet one-way delay: 53.730 ms

Loss rate: 0.41%

Run 10: Report of Copa — Data Link

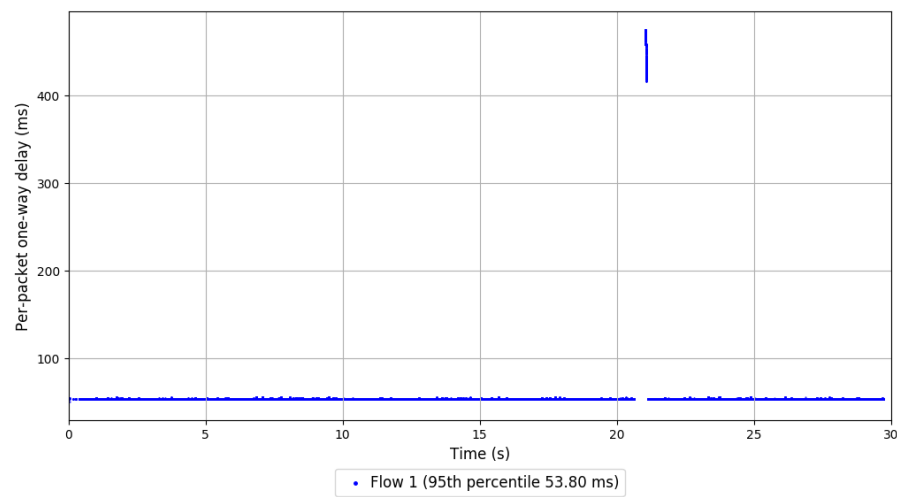
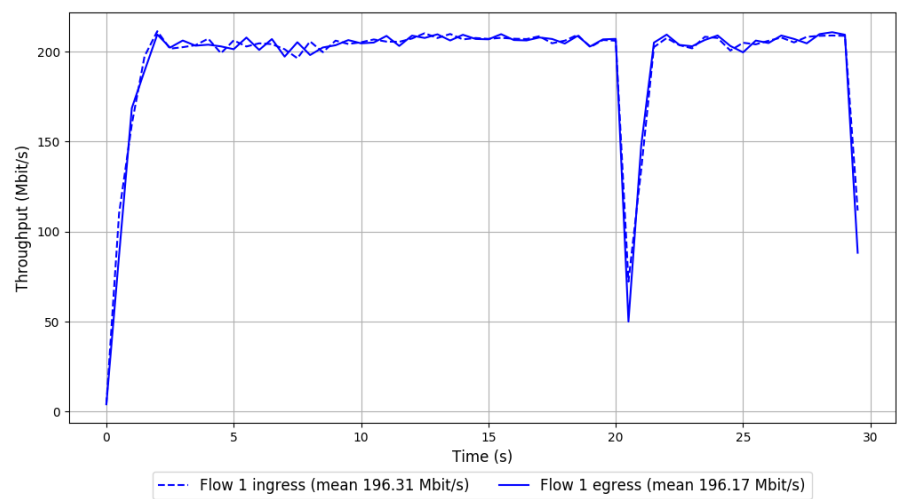


```
Run 1: Statistics of Indigo

Start at: 2017-11-30 10:21:22
End at: 2017-11-30 10:21:52

# Below is generated by plot.py at 2017-11-30 14:23:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 196.17 Mbit/s
95th percentile per-packet one-way delay: 53.795 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 196.17 Mbit/s
95th percentile per-packet one-way delay: 53.795 ms
Loss rate: 0.41%
```

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2017-11-30 10:31:58

End at: 2017-11-30 10:32:28

Below is generated by plot.py at 2017-11-30 14:24:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 203.36 Mbit/s

95th percentile per-packet one-way delay: 53.733 ms

Loss rate: 0.36%

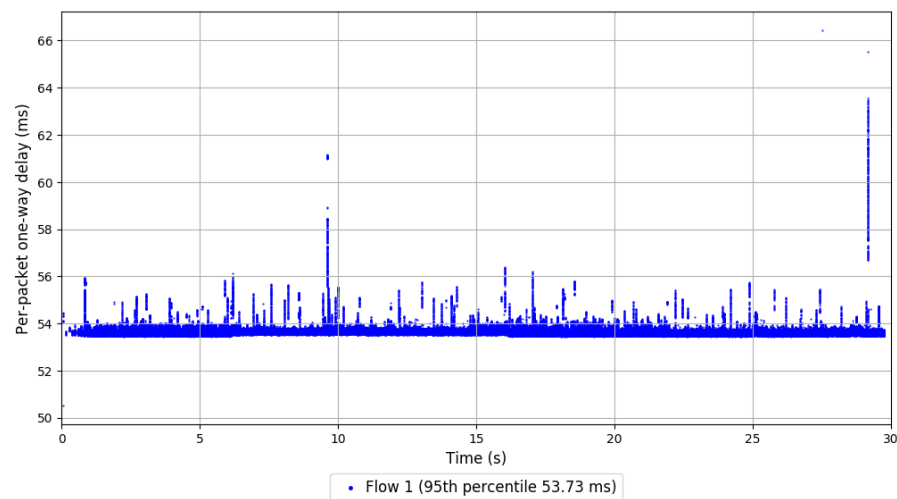
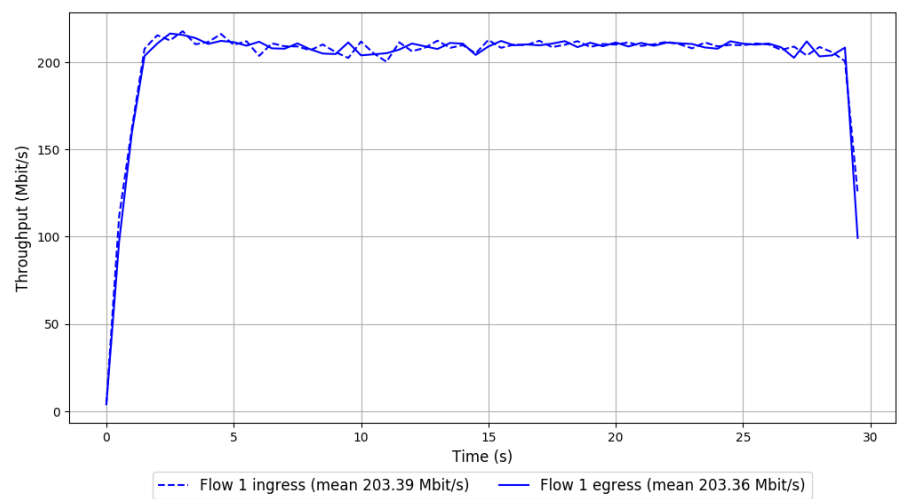
-- Flow 1:

Average throughput: 203.36 Mbit/s

95th percentile per-packet one-way delay: 53.733 ms

Loss rate: 0.36%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2017-11-30 10:42:25

End at: 2017-11-30 10:42:55

Below is generated by plot.py at 2017-11-30 14:24:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 199.78 Mbit/s

95th percentile per-packet one-way delay: 53.750 ms

Loss rate: 0.35%

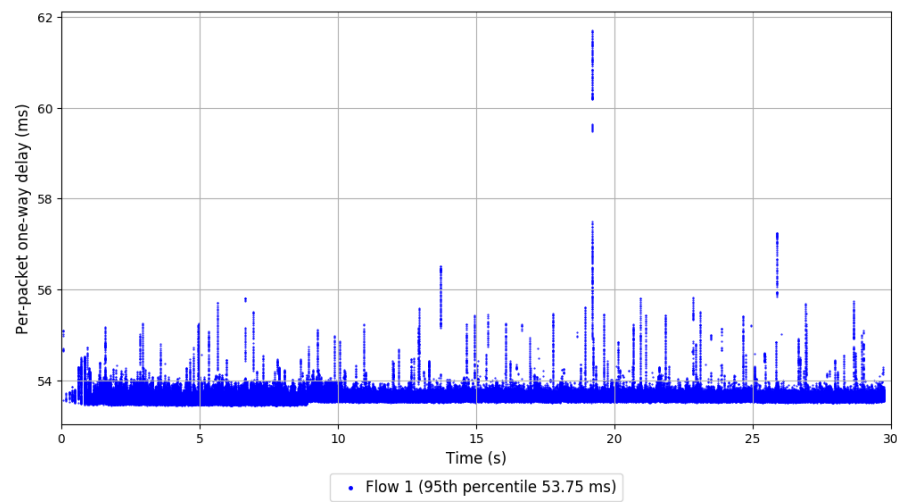
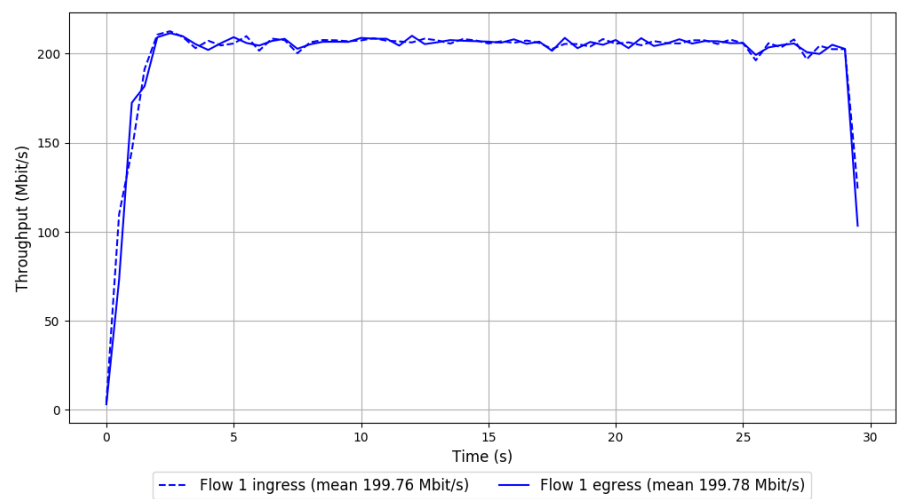
-- Flow 1:

Average throughput: 199.78 Mbit/s

95th percentile per-packet one-way delay: 53.750 ms

Loss rate: 0.35%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2017-11-30 10:52:46

End at: 2017-11-30 10:53:16

Below is generated by plot.py at 2017-11-30 14:24:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 196.89 Mbit/s

95th percentile per-packet one-way delay: 53.774 ms

Loss rate: 0.37%

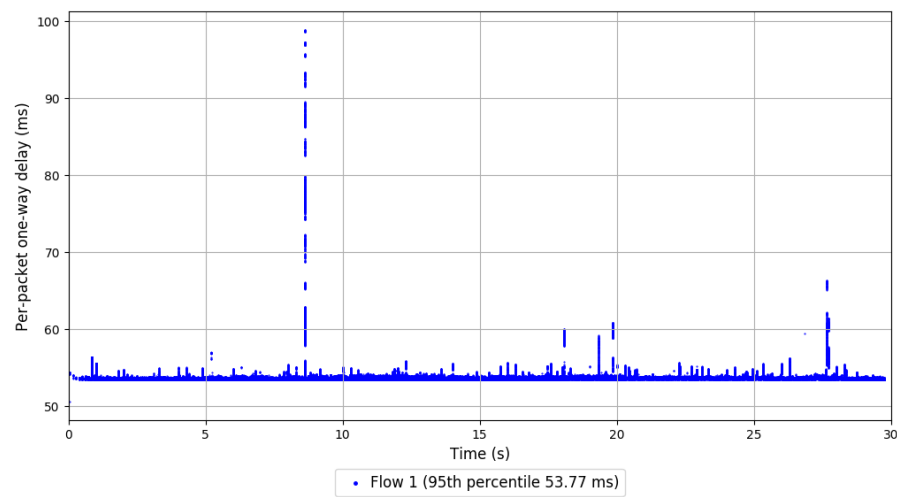
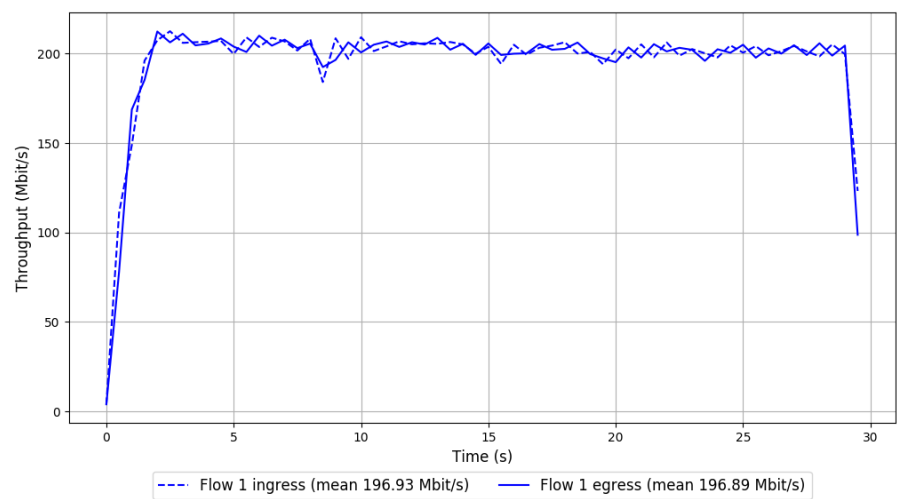
-- Flow 1:

Average throughput: 196.89 Mbit/s

95th percentile per-packet one-way delay: 53.774 ms

Loss rate: 0.37%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

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

End at: 2017-11-30 11:03:41

Below is generated by plot.py at 2017-11-30 14:24:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 196.03 Mbit/s

95th percentile per-packet one-way delay: 53.823 ms

Loss rate: 0.36%

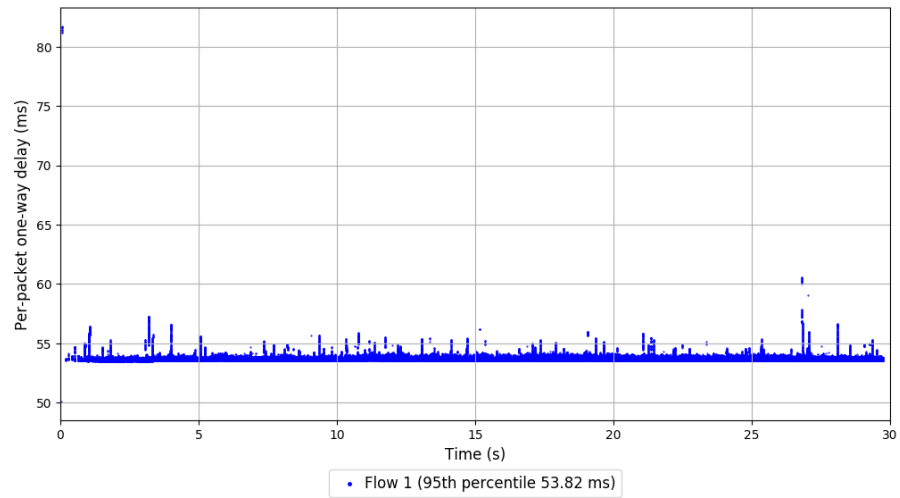
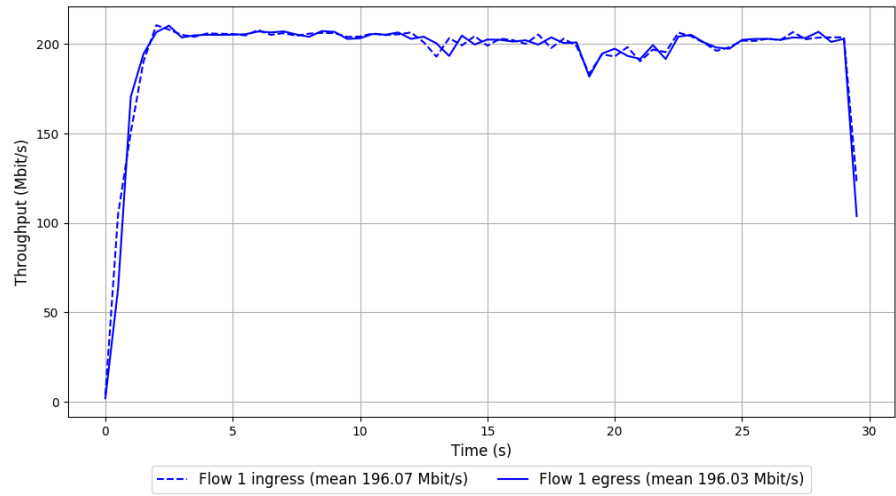
-- Flow 1:

Average throughput: 196.03 Mbit/s

95th percentile per-packet one-way delay: 53.823 ms

Loss rate: 0.36%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2017-11-30 11:13:45

End at: 2017-11-30 11:14:15

Below is generated by plot.py at 2017-11-30 14:25:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 195.12 Mbit/s

95th percentile per-packet one-way delay: 53.758 ms

Loss rate: 0.38%

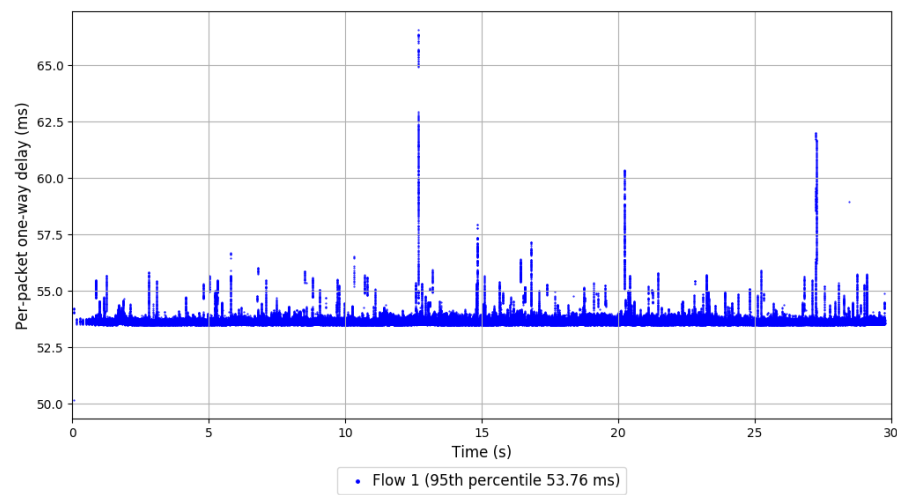
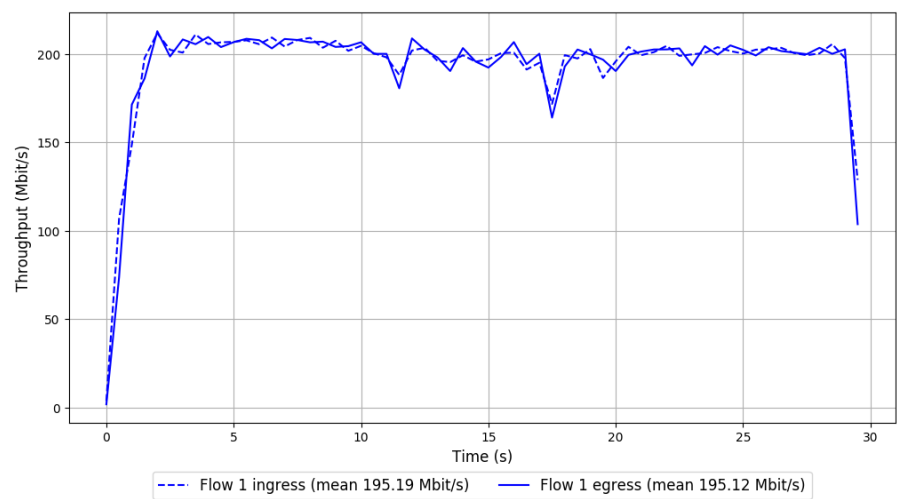
-- Flow 1:

Average throughput: 195.12 Mbit/s

95th percentile per-packet one-way delay: 53.758 ms

Loss rate: 0.38%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2017-11-30 11:24:21

End at: 2017-11-30 11:24:51

Below is generated by plot.py at 2017-11-30 14:25:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 195.20 Mbit/s

95th percentile per-packet one-way delay: 53.777 ms

Loss rate: 0.35%

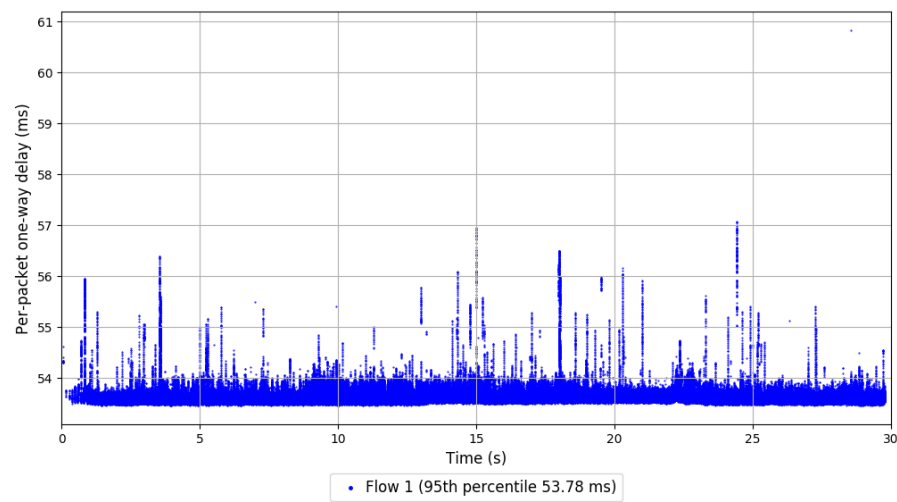
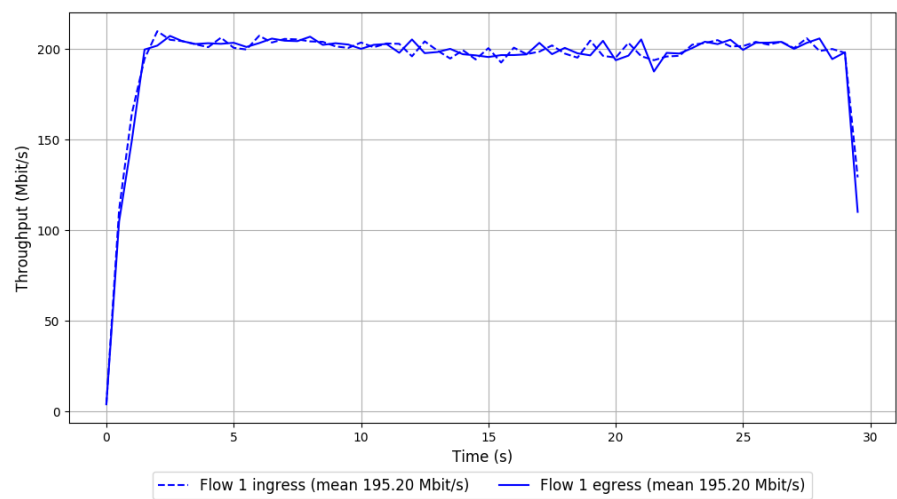
-- Flow 1:

Average throughput: 195.20 Mbit/s

95th percentile per-packet one-way delay: 53.777 ms

Loss rate: 0.35%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2017-11-30 11:34:57

End at: 2017-11-30 11:35:27

Below is generated by plot.py at 2017-11-30 14:26:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 197.78 Mbit/s

95th percentile per-packet one-way delay: 53.797 ms

Loss rate: 0.37%

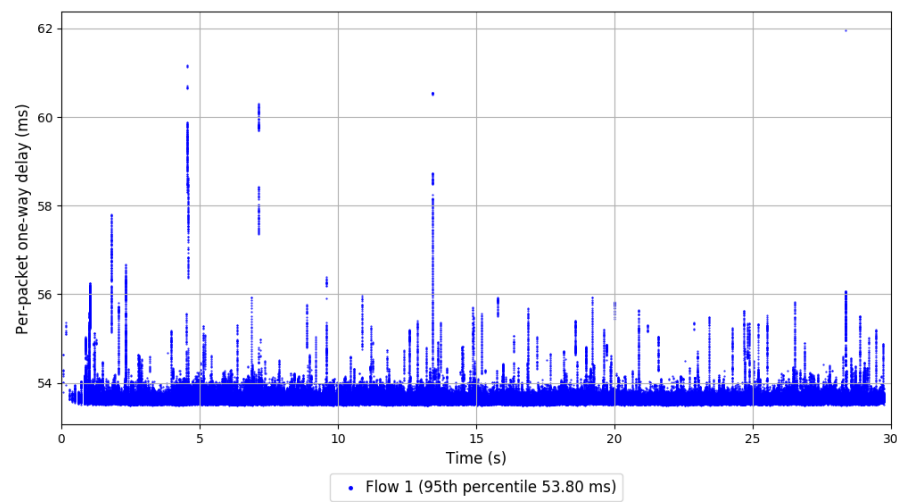
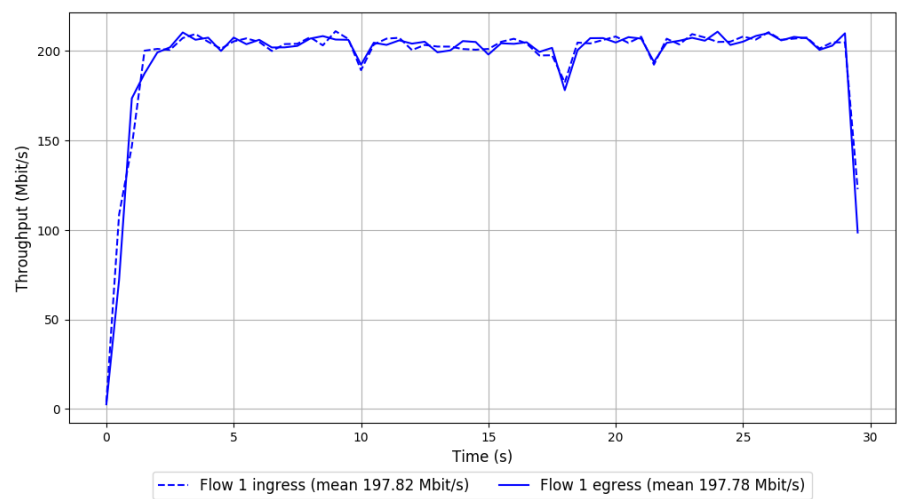
-- Flow 1:

Average throughput: 197.78 Mbit/s

95th percentile per-packet one-way delay: 53.797 ms

Loss rate: 0.37%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2017-11-30 11:45:18

End at: 2017-11-30 11:45:48

Below is generated by plot.py at 2017-11-30 14:27:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 196.17 Mbit/s

95th percentile per-packet one-way delay: 53.783 ms

Loss rate: 0.36%

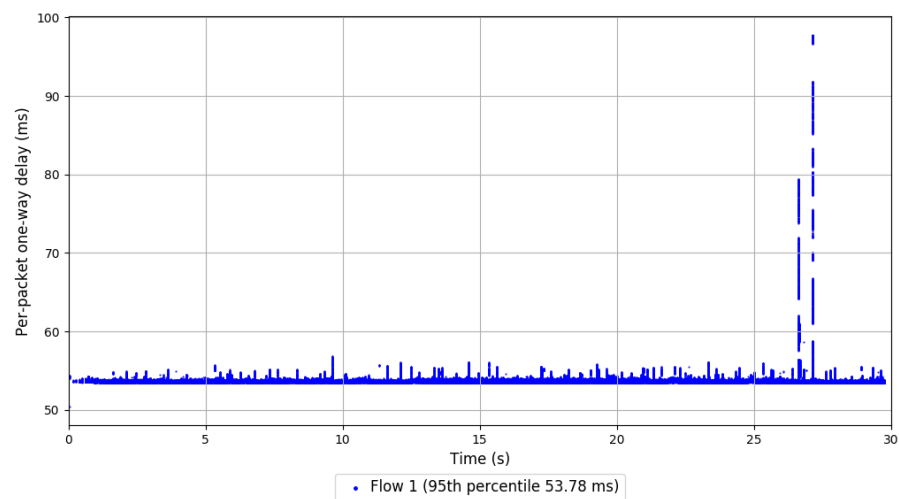
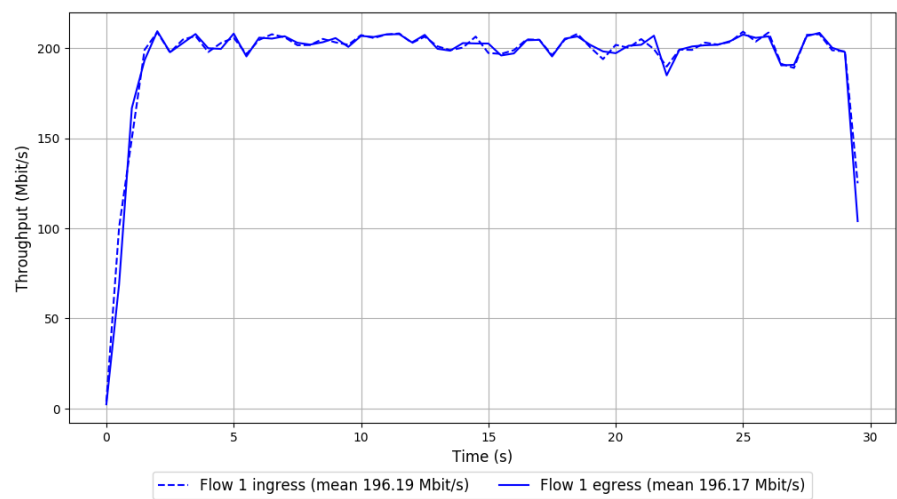
-- Flow 1:

Average throughput: 196.17 Mbit/s

95th percentile per-packet one-way delay: 53.783 ms

Loss rate: 0.36%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2017-11-30 11:55:34

End at: 2017-11-30 11:56:04

Below is generated by plot.py at 2017-11-30 14:27:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 194.00 Mbit/s

95th percentile per-packet one-way delay: 53.771 ms

Loss rate: 0.38%

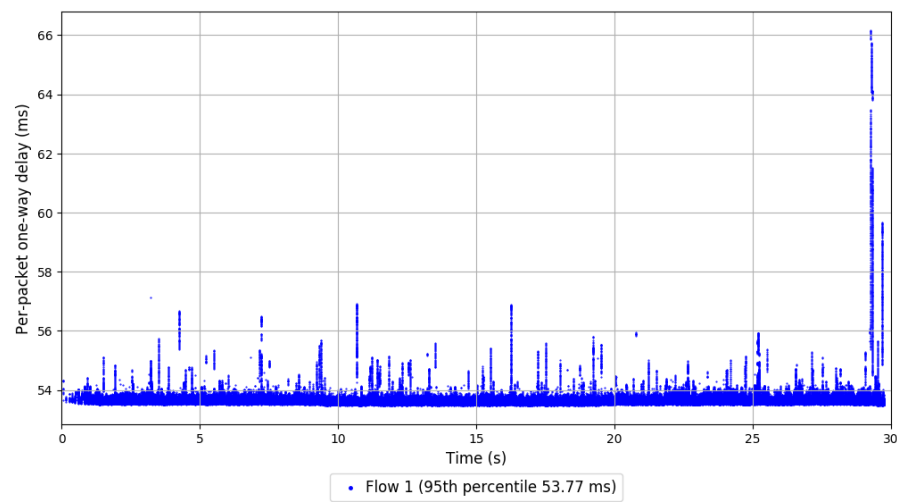
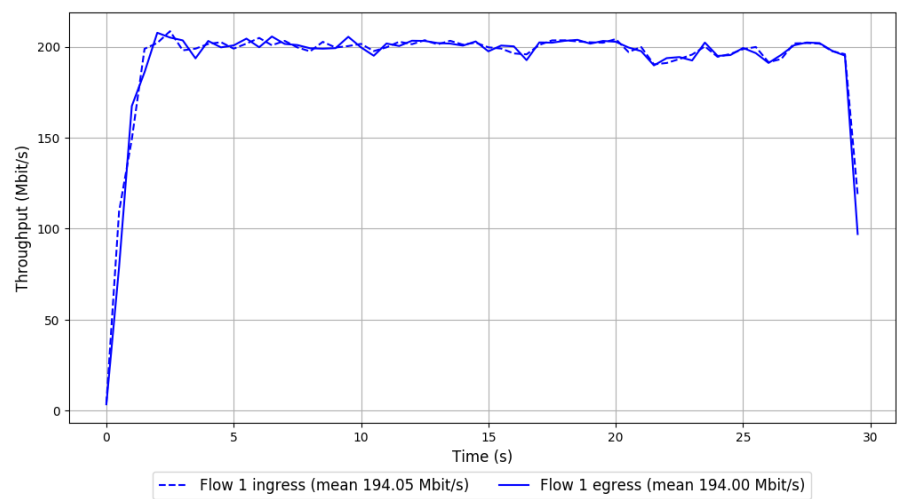
-- Flow 1:

Average throughput: 194.00 Mbit/s

95th percentile per-packet one-way delay: 53.771 ms

Loss rate: 0.38%

Run 10: Report of Indigo — Data Link

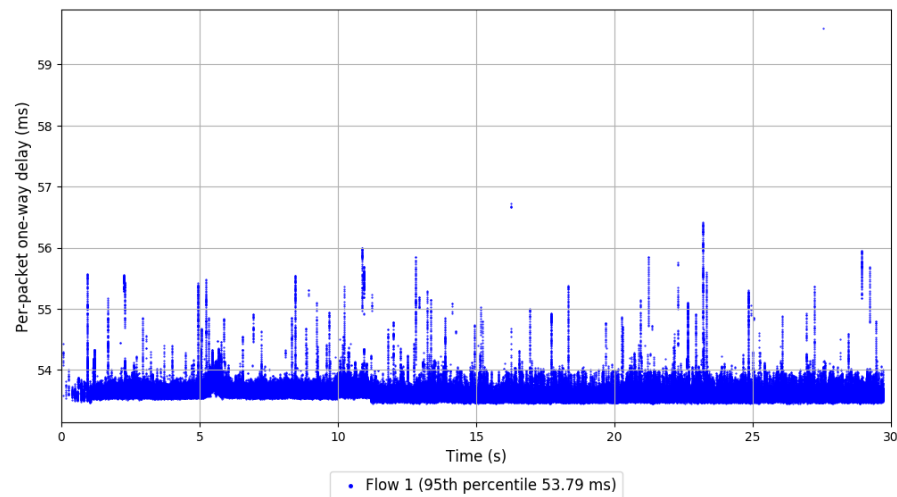
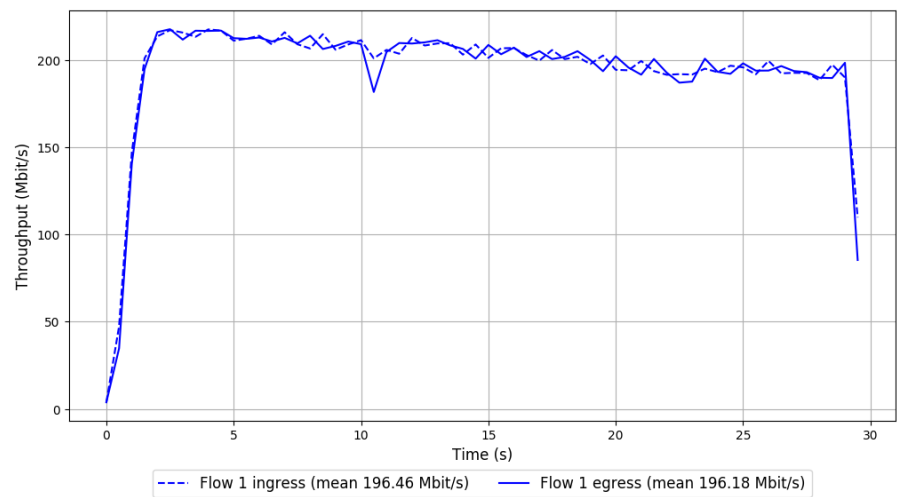


```
Run 1: Statistics of Indigo-calib

Start at: 2017-11-30 10:22:13
End at: 2017-11-30 10:22:43

# Below is generated by plot.py at 2017-11-30 14:27:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 196.18 Mbit/s
95th percentile per-packet one-way delay: 53.788 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 196.18 Mbit/s
95th percentile per-packet one-way delay: 53.788 ms
Loss rate: 0.50%
```

Run 1: Report of Indigo-calib — Data Link

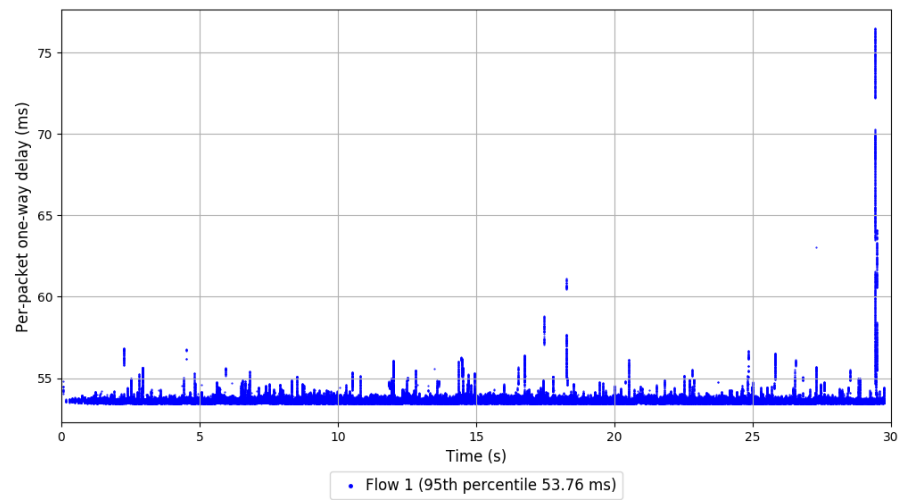
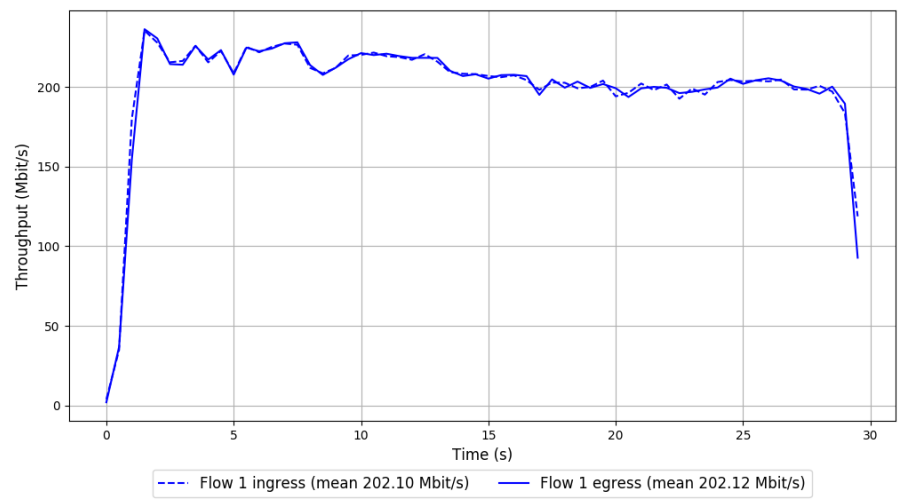


```
Run 2: Statistics of Indigo-calib

Start at: 2017-11-30 10:32:49
End at: 2017-11-30 10:33:19

# Below is generated by plot.py at 2017-11-30 14:27:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 202.12 Mbit/s
95th percentile per-packet one-way delay: 53.758 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 202.12 Mbit/s
95th percentile per-packet one-way delay: 53.758 ms
Loss rate: 0.34%
```

Run 2: Report of Indigo-calib — Data Link

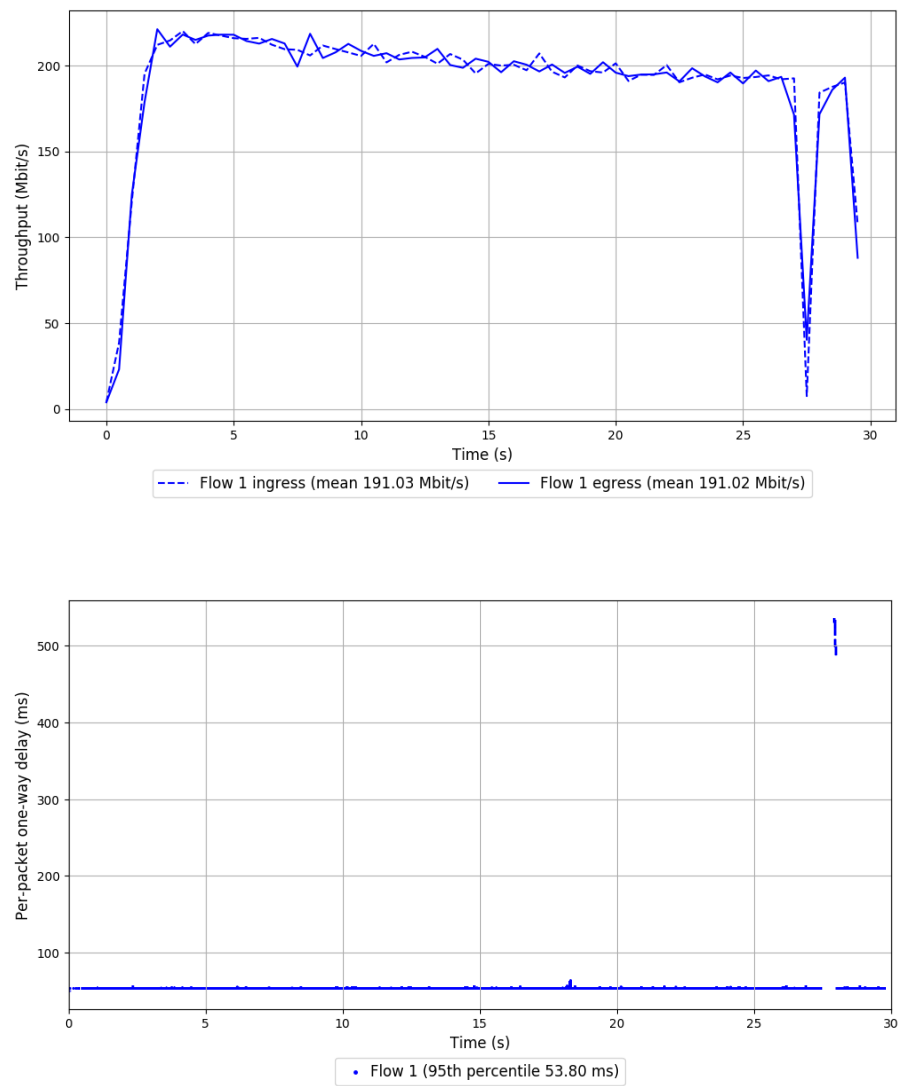


```
Run 3: Statistics of Indigo-calib

Start at: 2017-11-30 10:43:15
End at: 2017-11-30 10:43:45

# Below is generated by plot.py at 2017-11-30 14:28:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 191.02 Mbit/s
95th percentile per-packet one-way delay: 53.802 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 191.02 Mbit/s
95th percentile per-packet one-way delay: 53.802 ms
Loss rate: 0.34%
```

Run 3: Report of Indigo-calib — Data Link



Run 4: Statistics of Indigo-calib

Start at: 2017-11-30 10:53:36

End at: 2017-11-30 10:54:06

Below is generated by plot.py at 2017-11-30 14:28:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 200.08 Mbit/s

95th percentile per-packet one-way delay: 53.757 ms

Loss rate: 0.34%

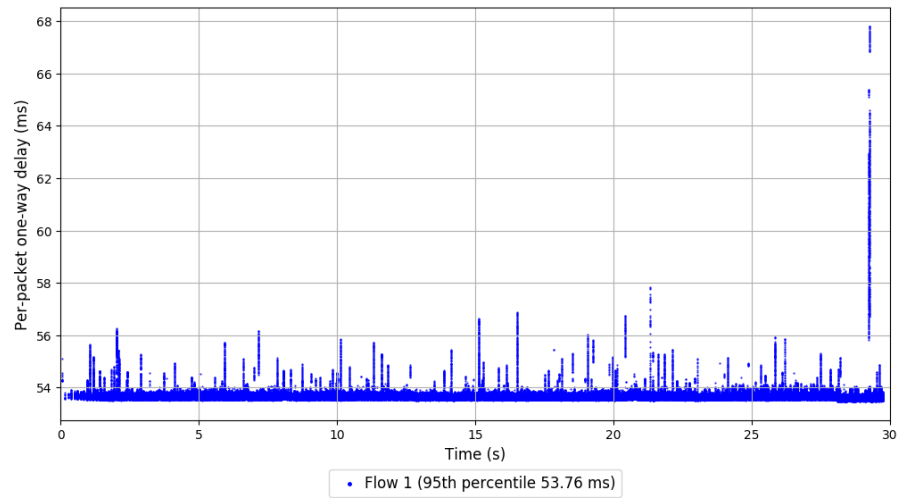
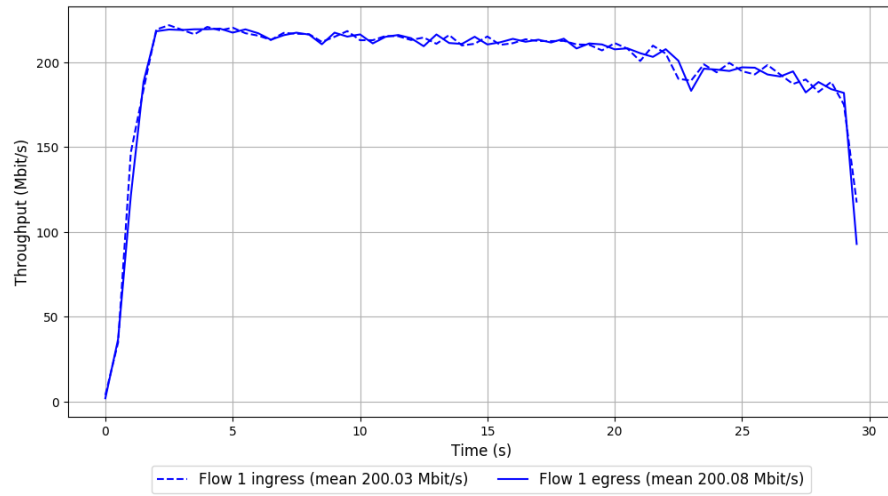
-- Flow 1:

Average throughput: 200.08 Mbit/s

95th percentile per-packet one-way delay: 53.757 ms

Loss rate: 0.34%

Run 4: Report of Indigo-calib — Data Link



Run 5: Statistics of Indigo-calib

Start at: 2017-11-30 11:04:01

End at: 2017-11-30 11:04:31

Below is generated by plot.py at 2017-11-30 14:28:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 192.66 Mbit/s

95th percentile per-packet one-way delay: 53.785 ms

Loss rate: 0.35%

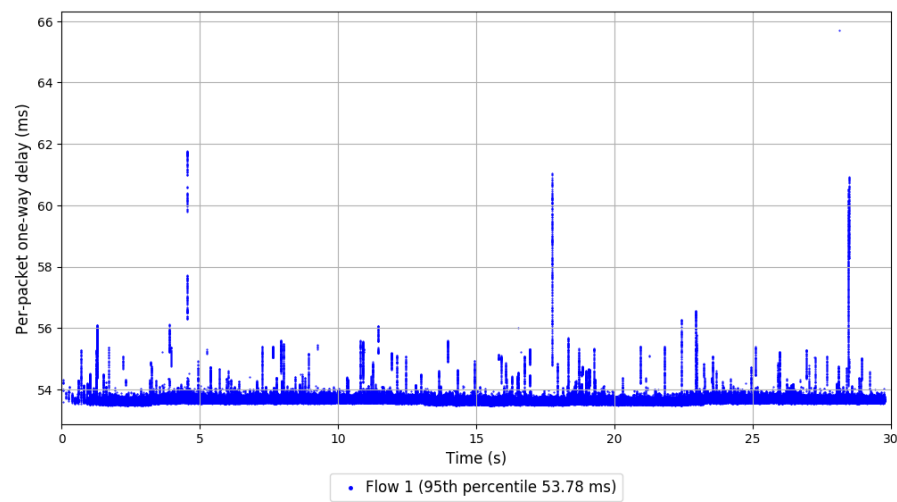
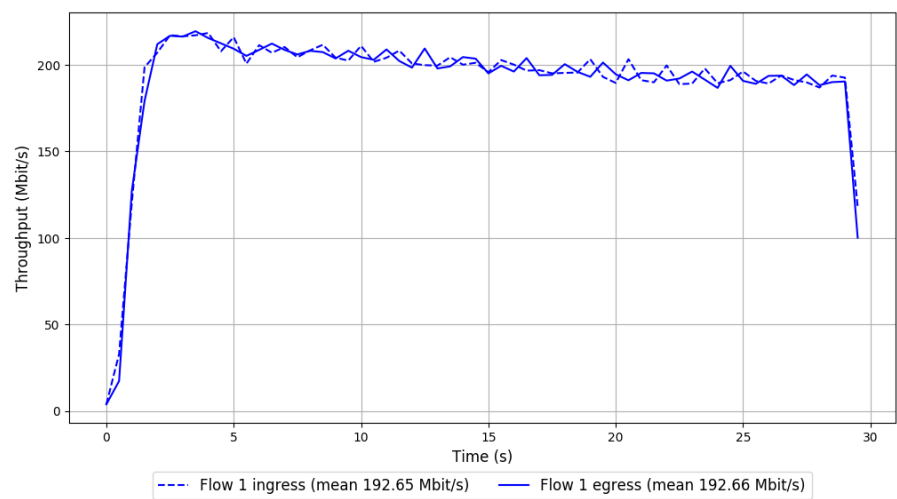
-- Flow 1:

Average throughput: 192.66 Mbit/s

95th percentile per-packet one-way delay: 53.785 ms

Loss rate: 0.35%

Run 5: Report of Indigo-calib — Data Link



Run 6: Statistics of Indigo-calib

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

End at: 2017-11-30 11:15:05

Below is generated by plot.py at 2017-11-30 14:29:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 200.77 Mbit/s

95th percentile per-packet one-way delay: 53.761 ms

Loss rate: 0.36%

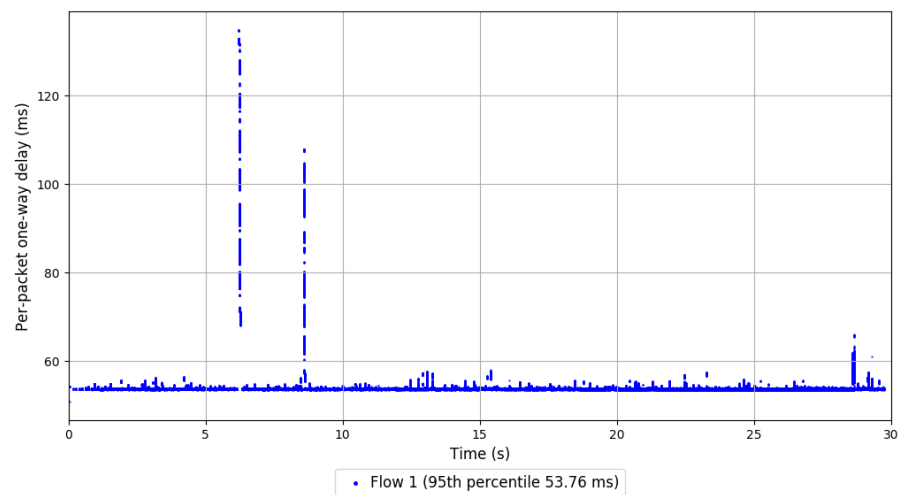
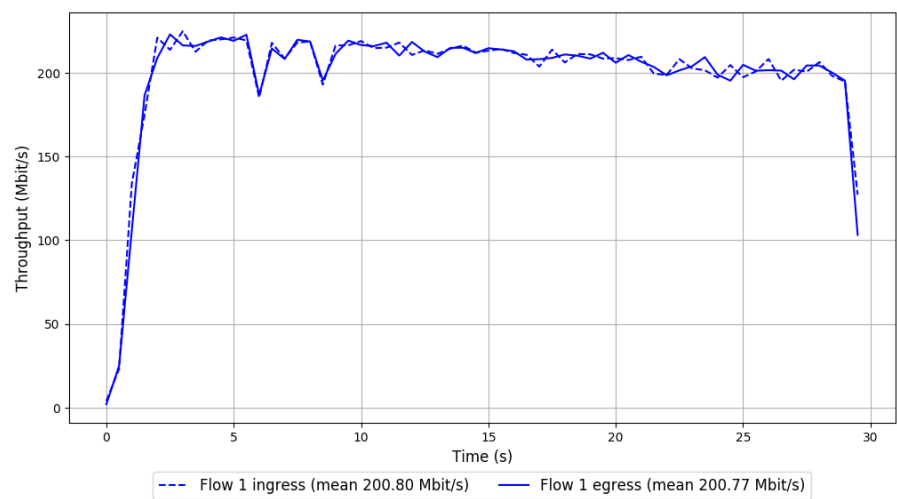
-- Flow 1:

Average throughput: 200.77 Mbit/s

95th percentile per-packet one-way delay: 53.761 ms

Loss rate: 0.36%

Run 6: Report of Indigo-calib — Data Link



Run 7: Statistics of Indigo-calib

Start at: 2017-11-30 11:25:11

End at: 2017-11-30 11:25:41

Below is generated by plot.py at 2017-11-30 14:29:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 187.15 Mbit/s

95th percentile per-packet one-way delay: 53.726 ms

Loss rate: 0.36%

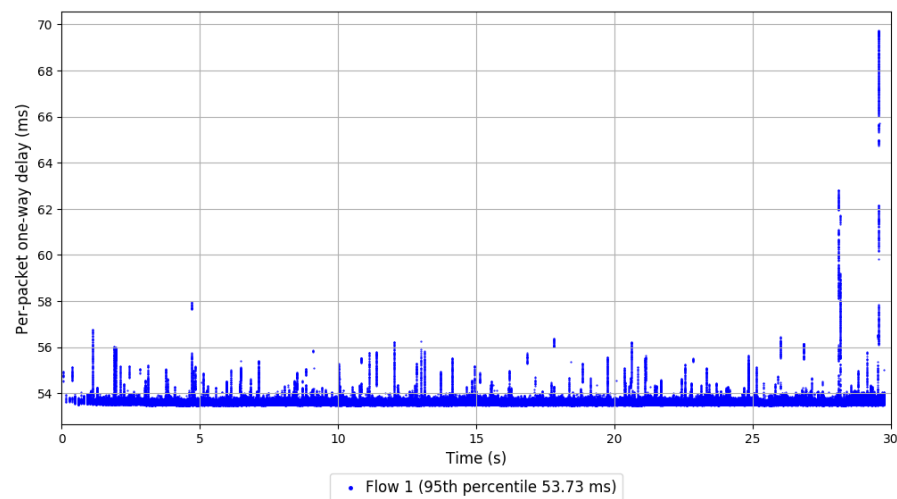
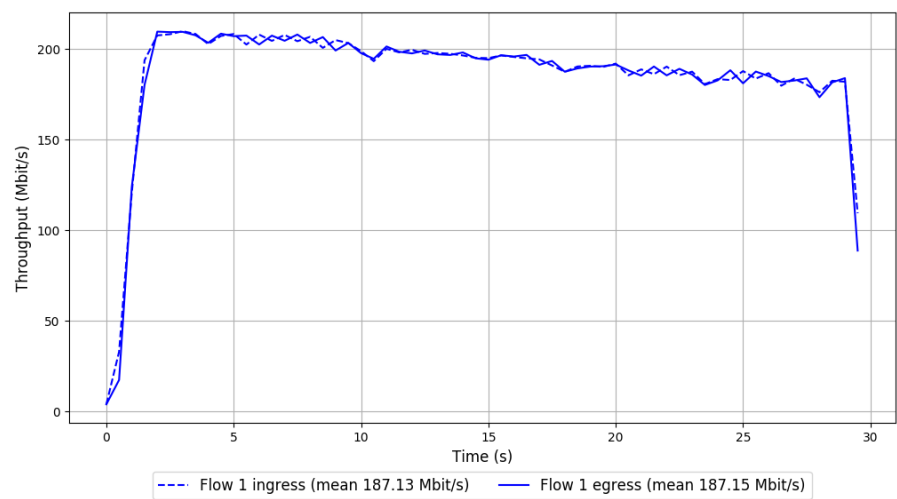
-- Flow 1:

Average throughput: 187.15 Mbit/s

95th percentile per-packet one-way delay: 53.726 ms

Loss rate: 0.36%

Run 7: Report of Indigo-calib — Data Link



Run 8: Statistics of Indigo-calib

Start at: 2017-11-30 11:35:47

End at: 2017-11-30 11:36:17

Below is generated by plot.py at 2017-11-30 14:29:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 200.89 Mbit/s

95th percentile per-packet one-way delay: 53.764 ms

Loss rate: 0.34%

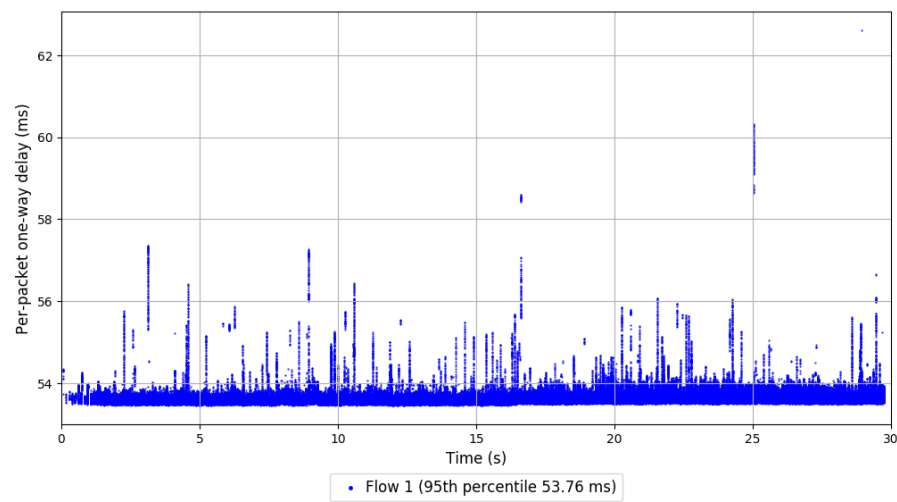
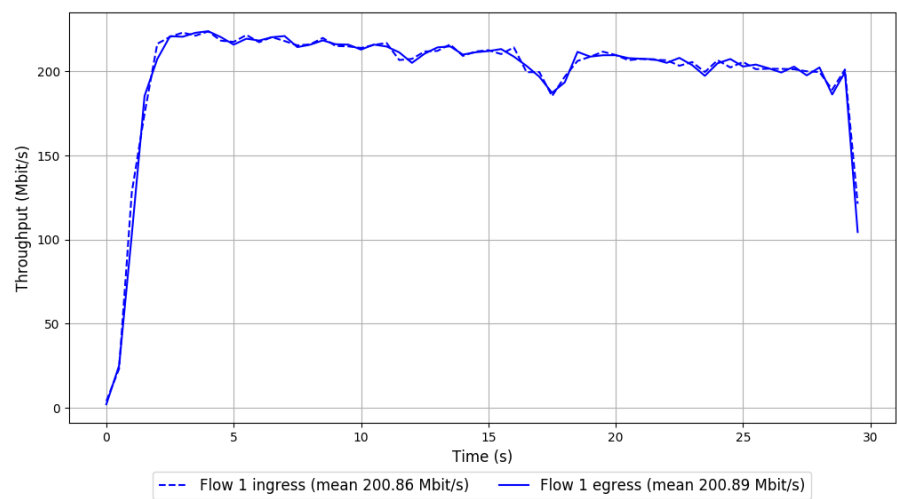
-- Flow 1:

Average throughput: 200.89 Mbit/s

95th percentile per-packet one-way delay: 53.764 ms

Loss rate: 0.34%

Run 8: Report of Indigo-calib — Data Link



Run 9: Statistics of Indigo-calib

Start at: 2017-11-30 11:46:08

End at: 2017-11-30 11:46:38

Below is generated by plot.py at 2017-11-30 14:29:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 191.38 Mbit/s

95th percentile per-packet one-way delay: 53.752 ms

Loss rate: 0.34%

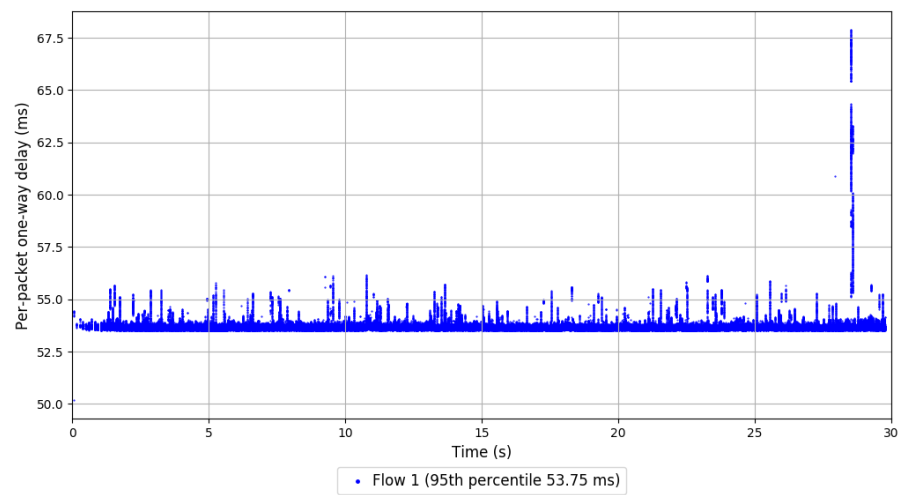
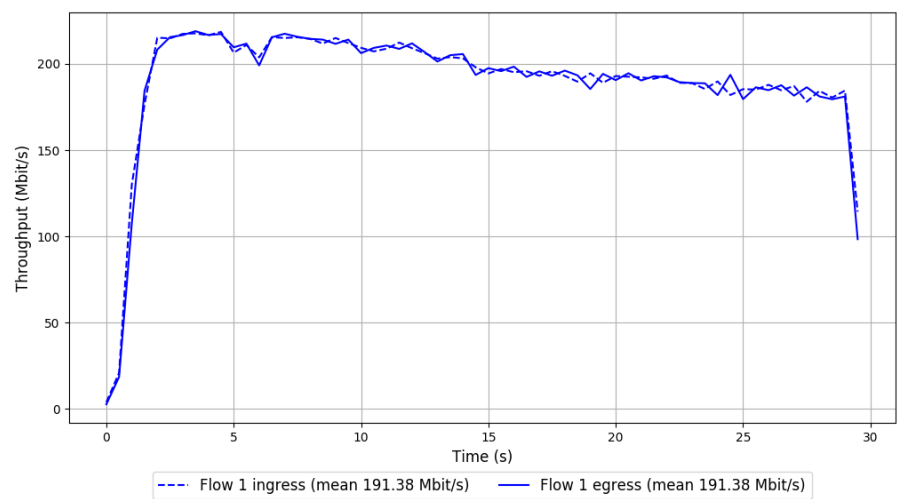
-- Flow 1:

Average throughput: 191.38 Mbit/s

95th percentile per-packet one-way delay: 53.752 ms

Loss rate: 0.34%

Run 9: Report of Indigo-calib — Data Link



Run 10: Statistics of Indigo-calib

Start at: 2017-11-30 11:56:24

End at: 2017-11-30 11:56:54

Below is generated by plot.py at 2017-11-30 14:29:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 191.21 Mbit/s

95th percentile per-packet one-way delay: 53.765 ms

Loss rate: 0.35%

-- Flow 1:

Average throughput: 191.21 Mbit/s

95th percentile per-packet one-way delay: 53.765 ms

Loss rate: 0.35%

Run 10: Report of Indigo-calib — Data Link

