

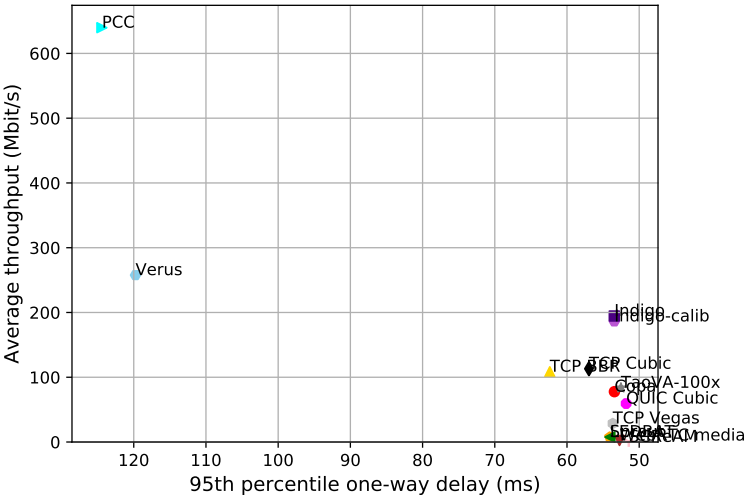
Pantheon Report

Generated at 2017-11-21 07:30:51 (UTC).
Data path: GCE Sydney Ethernet (*local*) → GCE Tokyo Ethernet (*remote*).
Repeated the test of 14 congestion control schemes 10 times.
Each test lasted for 30 seconds running 1 flow.
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).
Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo_fast**).

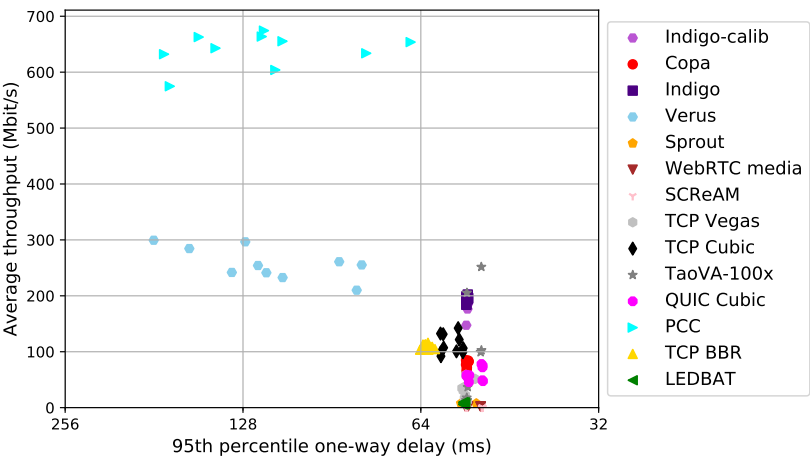
Git summary:

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

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



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



scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	10	108.54	62.38	0.02
TCP Cubic	10	113.15	56.96	0.01
LEDBAT	8	7.64	54.06	0.12
PCC	10	639.72	124.41	1.02
QUIC Cubic	10	59.37	51.81	0.00
SCReAM	9	0.21	51.44	0.00
WebRTC media	10	2.29	52.73	0.00
Sprout	10	7.78	54.10	0.03
TaoVA-100x	9	83.67	52.53	0.00
TCP Vegas	10	28.67	53.67	0.03
Verus	10	257.67	119.76	0.17
Copa	10	77.73	53.43	0.00
Indigo	10	194.56	53.45	0.00
Indigo-calib	10	186.22	53.45	0.01

Run 1: Statistics of TCP BBR

Start at: 2017-11-21 04:31:00

End at: 2017-11-21 04:31:30

Below is generated by plot.py at 2017-11-21 06:52:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 104.60 Mbit/s

95th percentile per-packet one-way delay: 62.552 ms

Loss rate: 0.00%

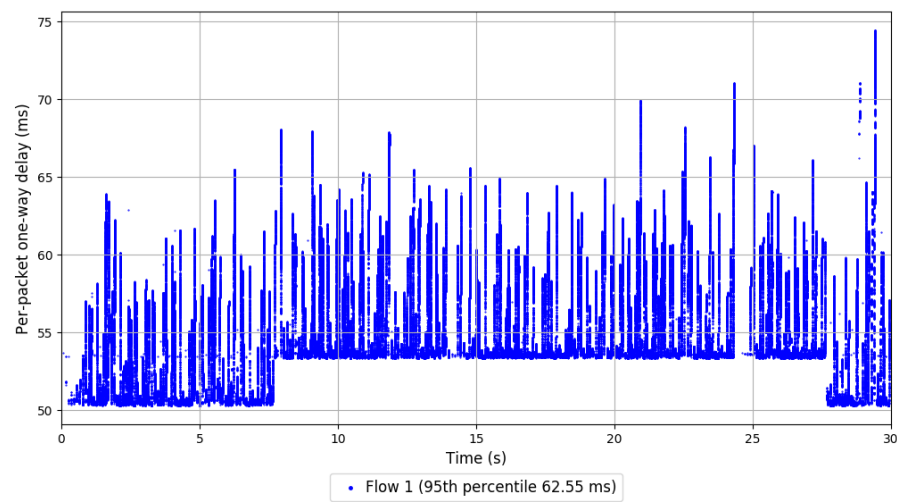
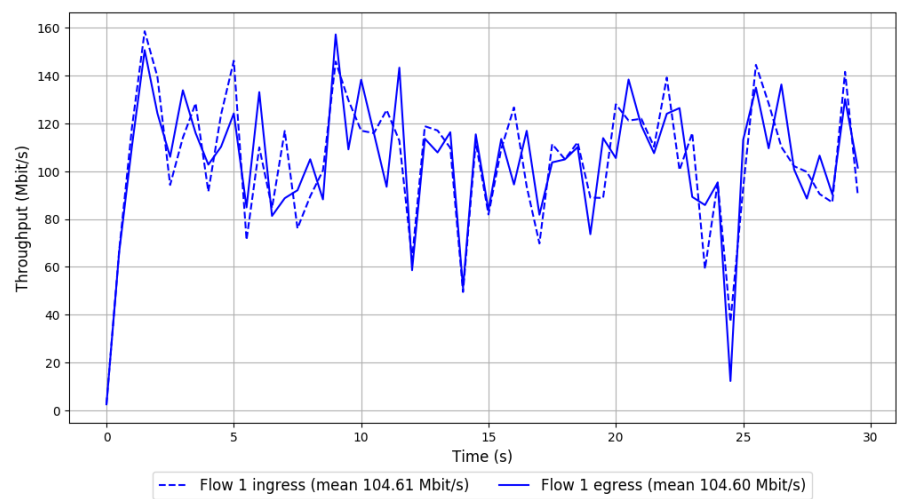
-- Flow 1:

Average throughput: 104.60 Mbit/s

95th percentile per-packet one-way delay: 62.552 ms

Loss rate: 0.00%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2017-11-21 04:41:35

End at: 2017-11-21 04:42:05

Below is generated by plot.py at 2017-11-21 06:52:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 113.44 Mbit/s

95th percentile per-packet one-way delay: 62.906 ms

Loss rate: 0.00%

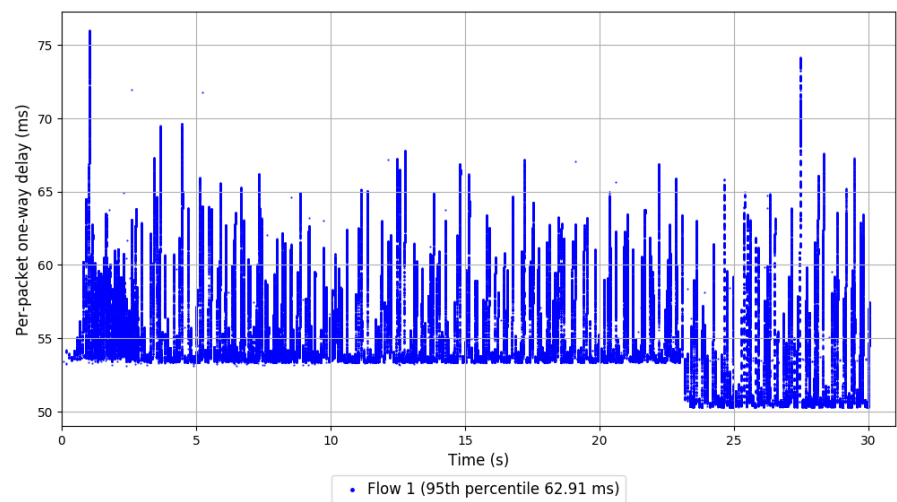
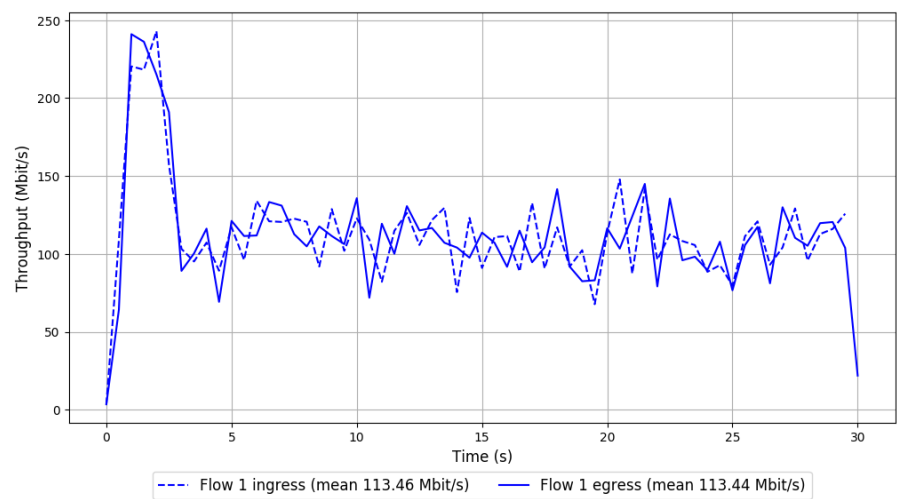
-- Flow 1:

Average throughput: 113.44 Mbit/s

95th percentile per-packet one-way delay: 62.906 ms

Loss rate: 0.00%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2017-11-21 04:52:01

End at: 2017-11-21 04:52:31

Below is generated by plot.py at 2017-11-21 06:52:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 108.21 Mbit/s

95th percentile per-packet one-way delay: 62.694 ms

Loss rate: 0.01%

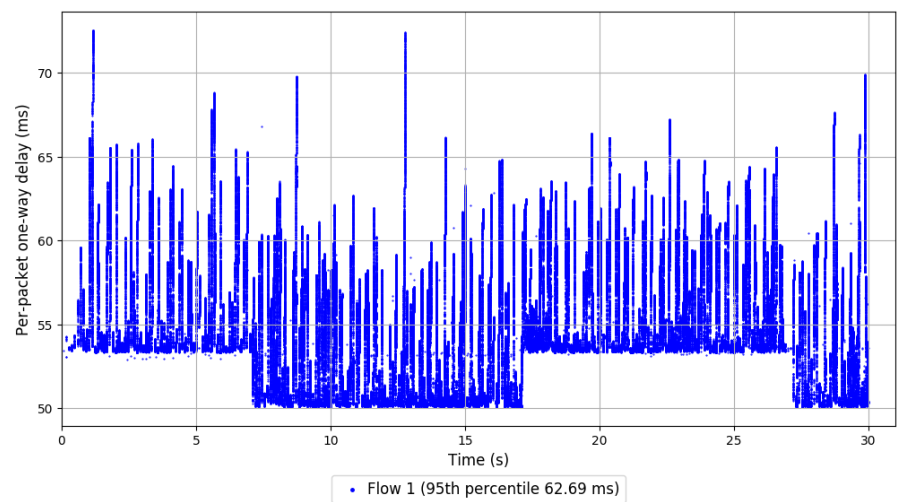
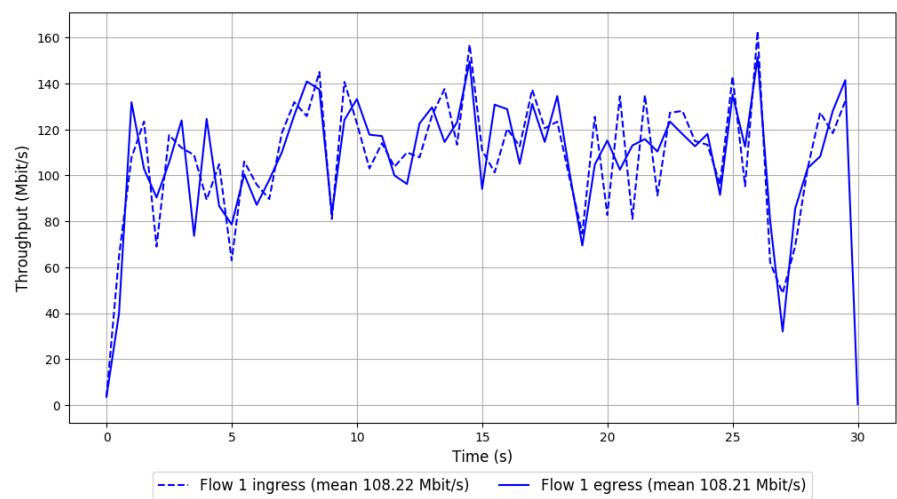
-- Flow 1:

Average throughput: 108.21 Mbit/s

95th percentile per-packet one-way delay: 62.694 ms

Loss rate: 0.01%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2017-11-21 05:02:24

End at: 2017-11-21 05:02:54

Below is generated by plot.py at 2017-11-21 06:52:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 116.10 Mbit/s

95th percentile per-packet one-way delay: 62.251 ms

Loss rate: 0.01%

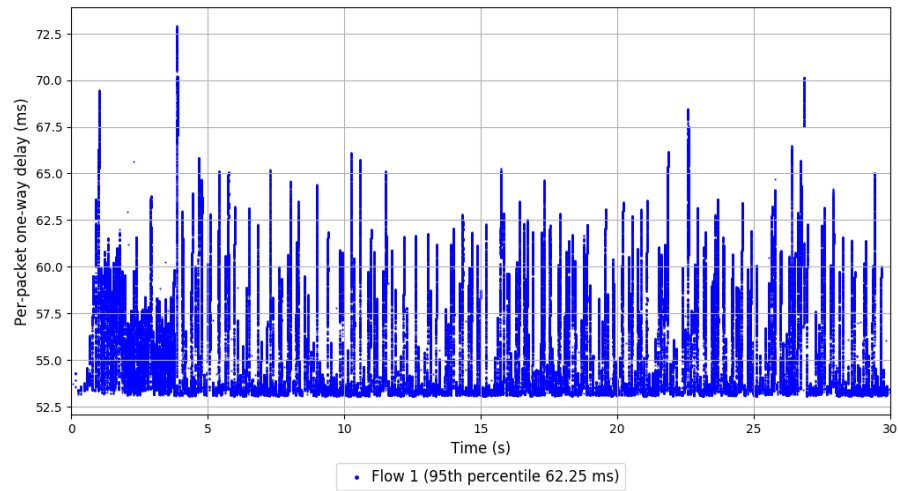
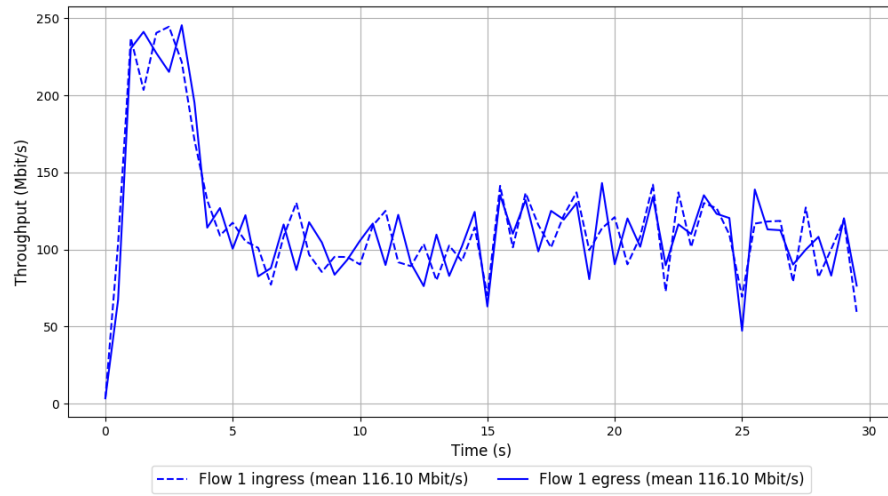
-- Flow 1:

Average throughput: 116.10 Mbit/s

95th percentile per-packet one-way delay: 62.251 ms

Loss rate: 0.01%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2017-11-21 05:12:37

End at: 2017-11-21 05:13:07

Below is generated by plot.py at 2017-11-21 06:52:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 108.84 Mbit/s

95th percentile per-packet one-way delay: 61.237 ms

Loss rate: 0.01%

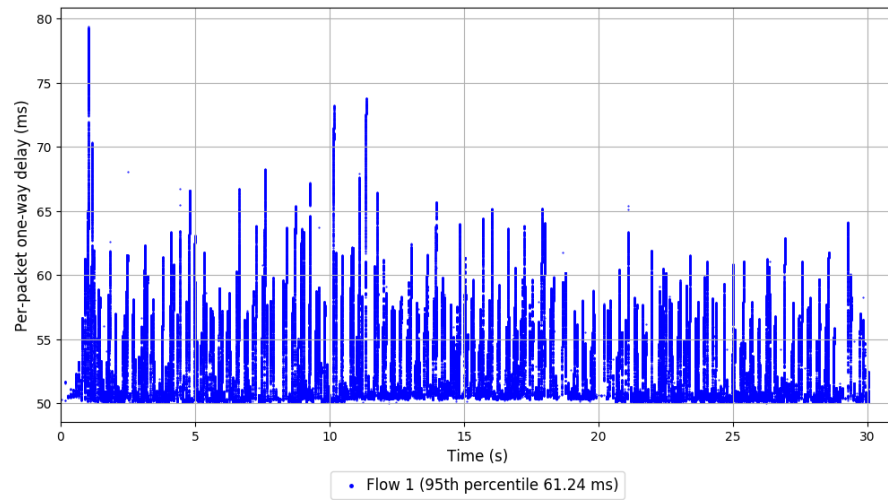
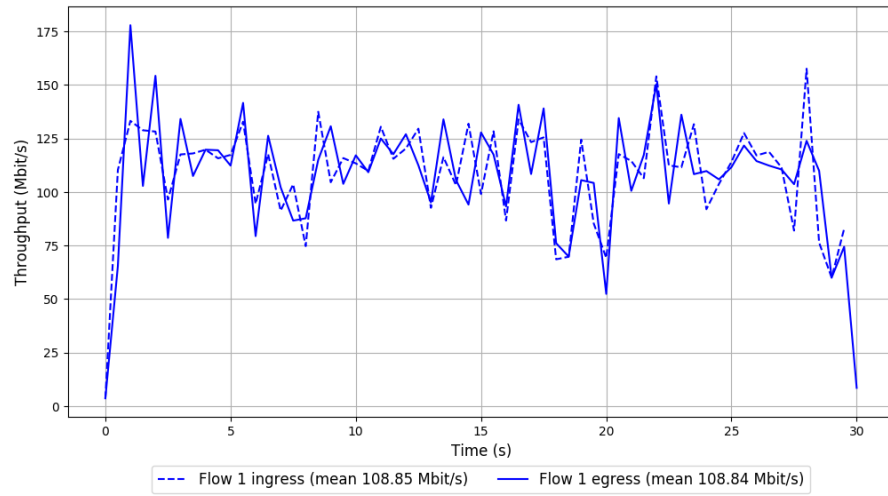
-- Flow 1:

Average throughput: 108.84 Mbit/s

95th percentile per-packet one-way delay: 61.237 ms

Loss rate: 0.01%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2017-11-21 05:22:52

End at: 2017-11-21 05:23:22

Below is generated by plot.py at 2017-11-21 06:52:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 103.58 Mbit/s

95th percentile per-packet one-way delay: 64.184 ms

Loss rate: 0.01%

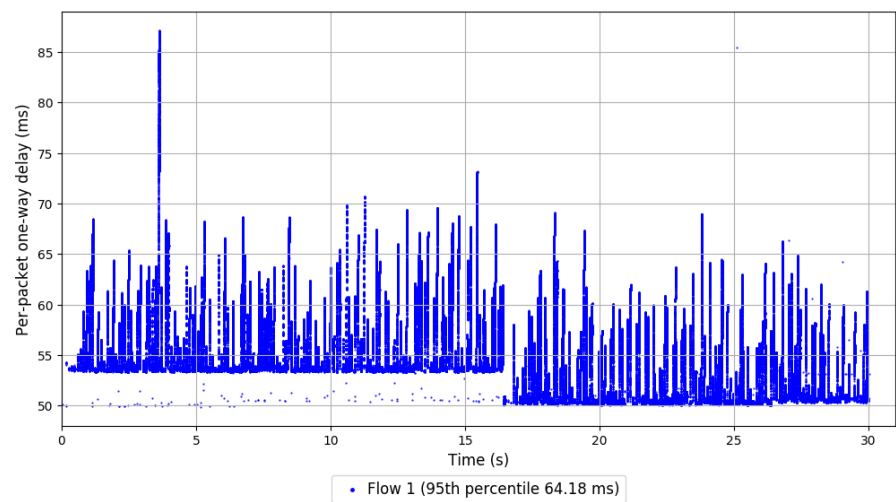
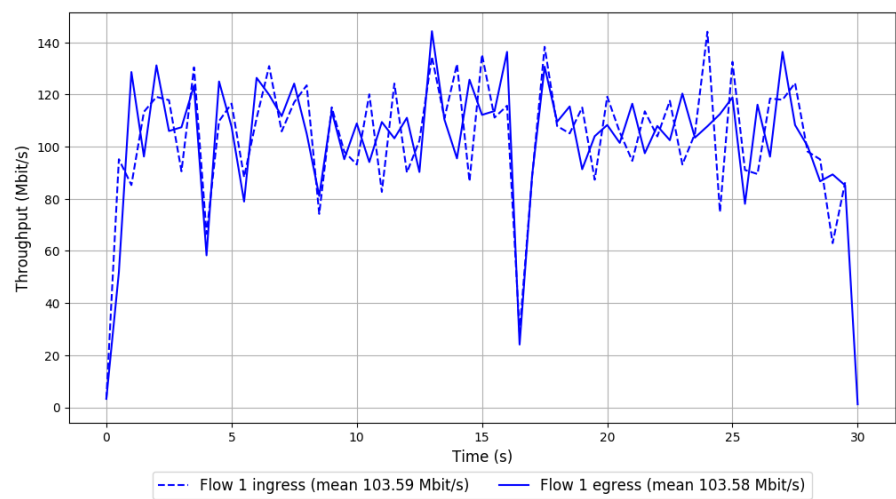
-- Flow 1:

Average throughput: 103.58 Mbit/s

95th percentile per-packet one-way delay: 64.184 ms

Loss rate: 0.01%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2017-11-21 05:33:08

End at: 2017-11-21 05:33:38

Below is generated by plot.py at 2017-11-21 06:52:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 104.70 Mbit/s

95th percentile per-packet one-way delay: 60.567 ms

Loss rate: 0.01%

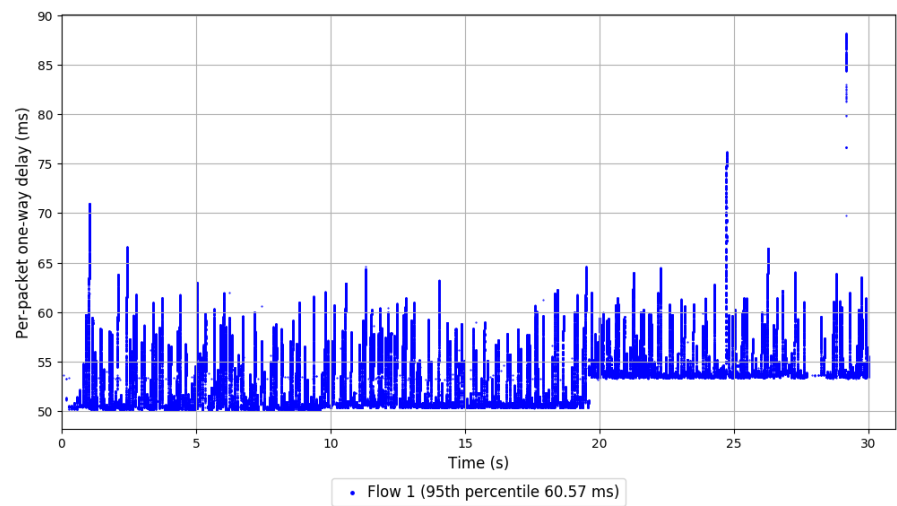
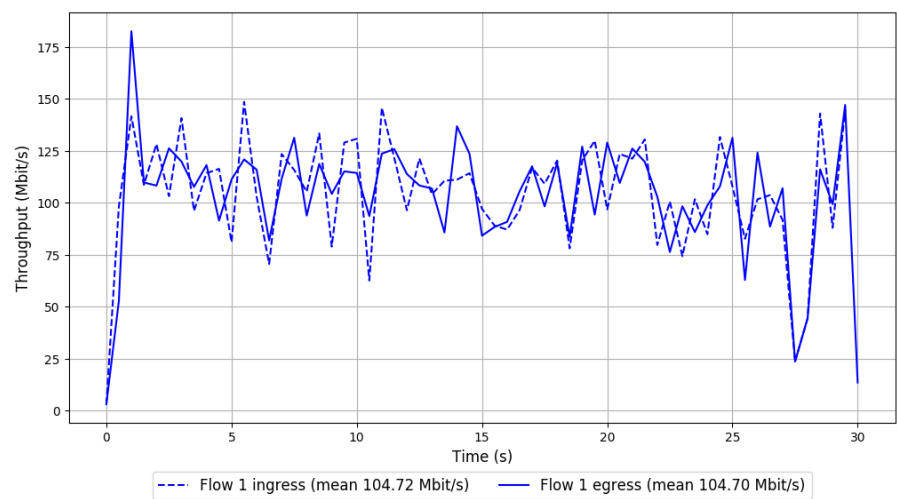
-- Flow 1:

Average throughput: 104.70 Mbit/s

95th percentile per-packet one-way delay: 60.567 ms

Loss rate: 0.01%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2017-11-21 05:43:45

End at: 2017-11-21 05:44:15

Below is generated by plot.py at 2017-11-21 06:52:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 112.95 Mbit/s

95th percentile per-packet one-way delay: 63.466 ms

Loss rate: 0.01%

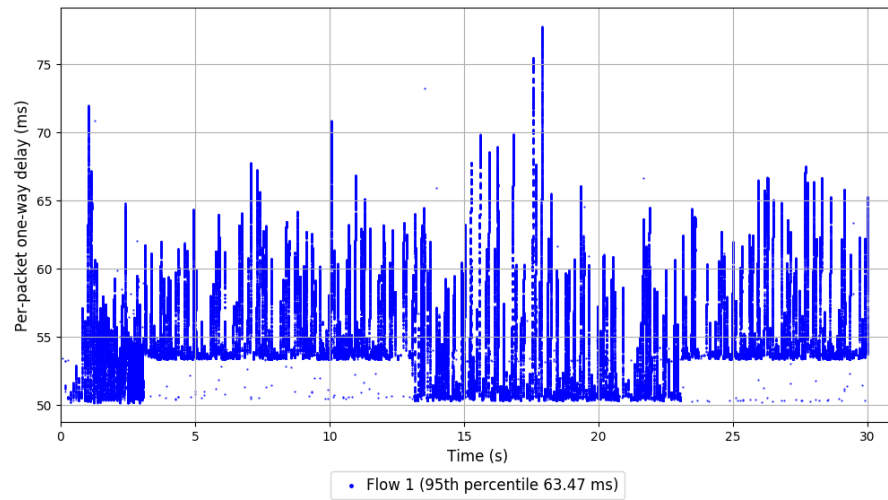
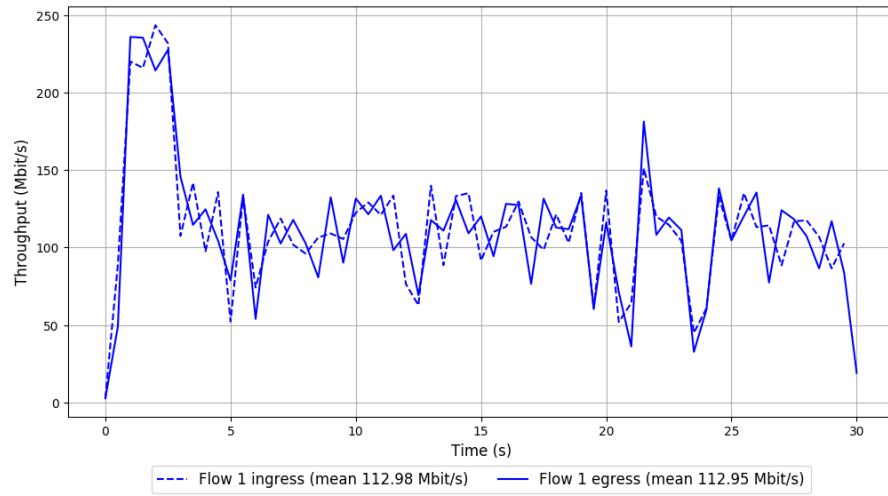
-- Flow 1:

Average throughput: 112.95 Mbit/s

95th percentile per-packet one-way delay: 63.466 ms

Loss rate: 0.01%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2017-11-21 05:54:14

End at: 2017-11-21 05:54:44

Below is generated by plot.py at 2017-11-21 06:54:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 109.31 Mbit/s

95th percentile per-packet one-way delay: 61.835 ms

Loss rate: 0.00%

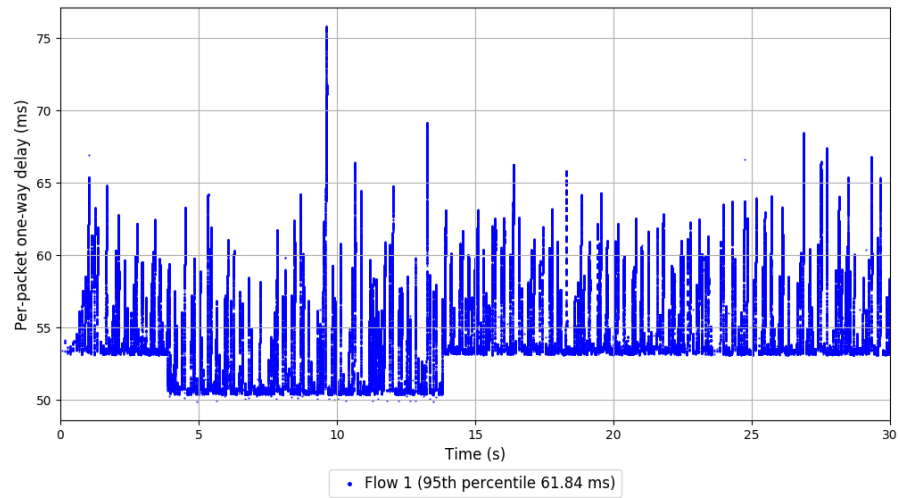
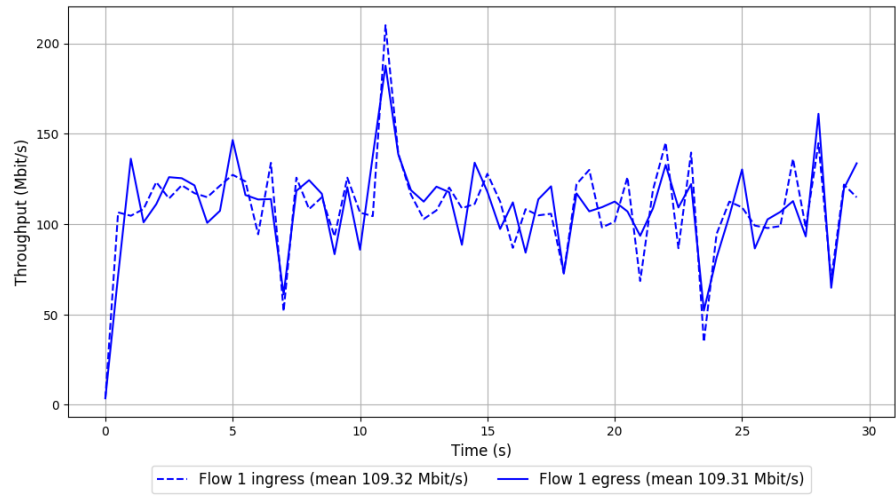
-- Flow 1:

Average throughput: 109.31 Mbit/s

95th percentile per-packet one-way delay: 61.835 ms

Loss rate: 0.00%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2017-11-21 06:04:28

End at: 2017-11-21 06:04:58

Below is generated by plot.py at 2017-11-21 06:54:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 103.66 Mbit/s

95th percentile per-packet one-way delay: 62.129 ms

Loss rate: 0.14%

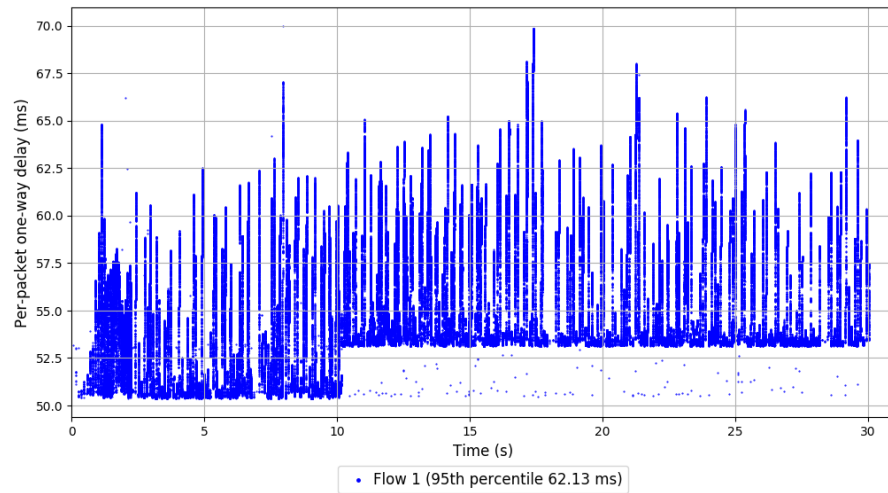
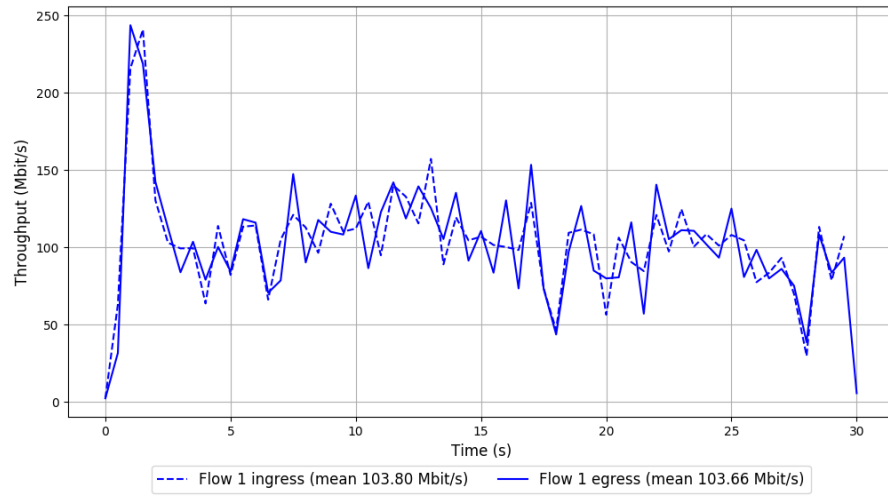
-- Flow 1:

Average throughput: 103.66 Mbit/s

95th percentile per-packet one-way delay: 62.129 ms

Loss rate: 0.14%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2017-11-21 04:31:44

End at: 2017-11-21 04:32:14

Below is generated by plot.py at 2017-11-21 06:54:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 142.16 Mbit/s

95th percentile per-packet one-way delay: 55.330 ms

Loss rate: 0.01%

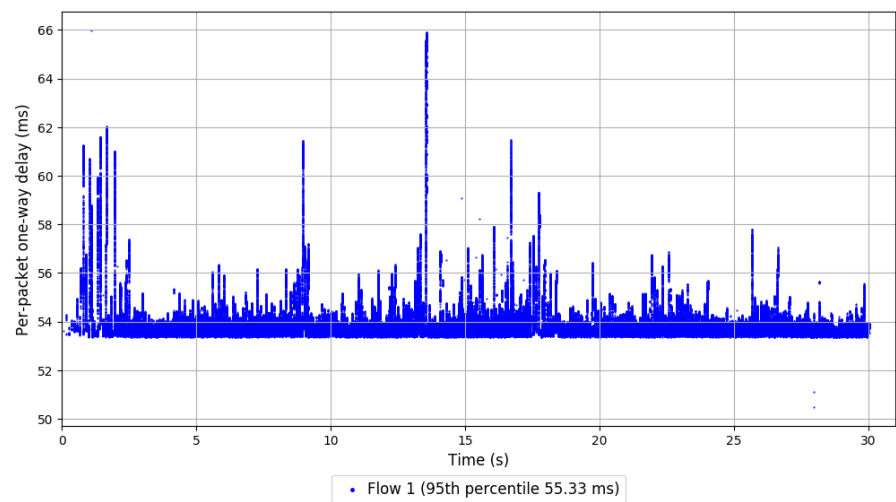
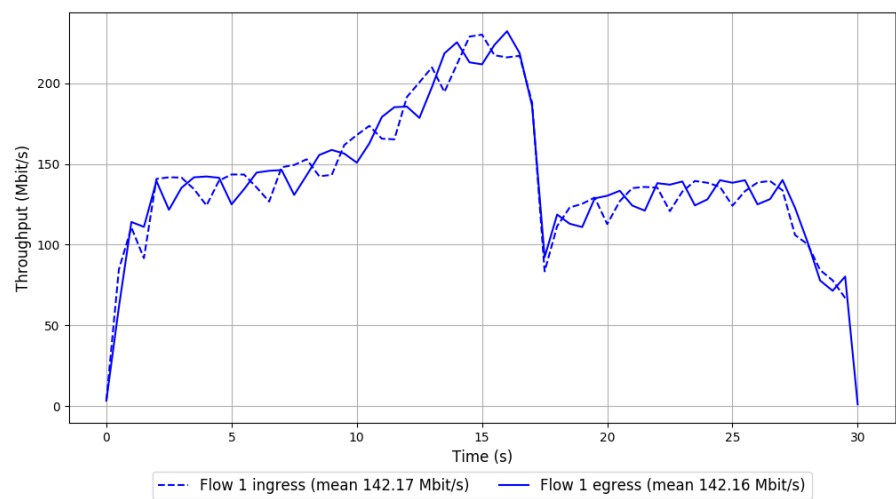
-- Flow 1:

Average throughput: 142.16 Mbit/s

95th percentile per-packet one-way delay: 55.330 ms

Loss rate: 0.01%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2017-11-21 04:42:19

End at: 2017-11-21 04:42:49

Below is generated by plot.py at 2017-11-21 06:54:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 121.68 Mbit/s

95th percentile per-packet one-way delay: 55.099 ms

Loss rate: 0.00%

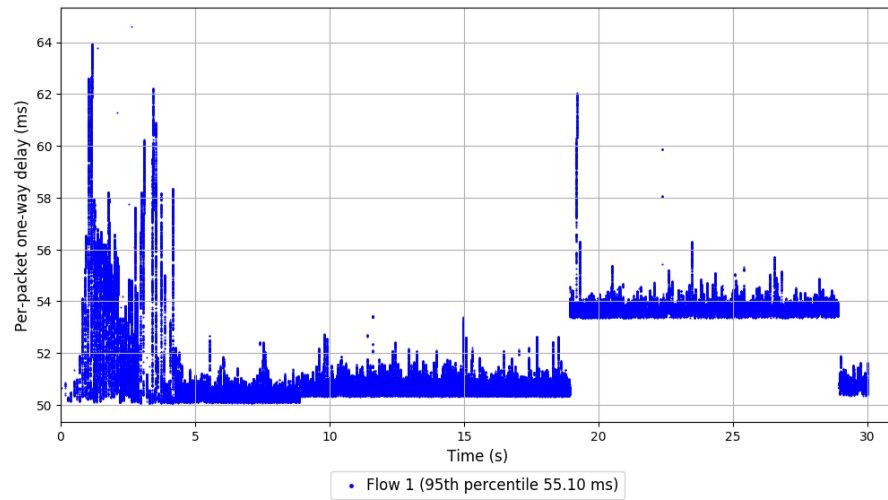
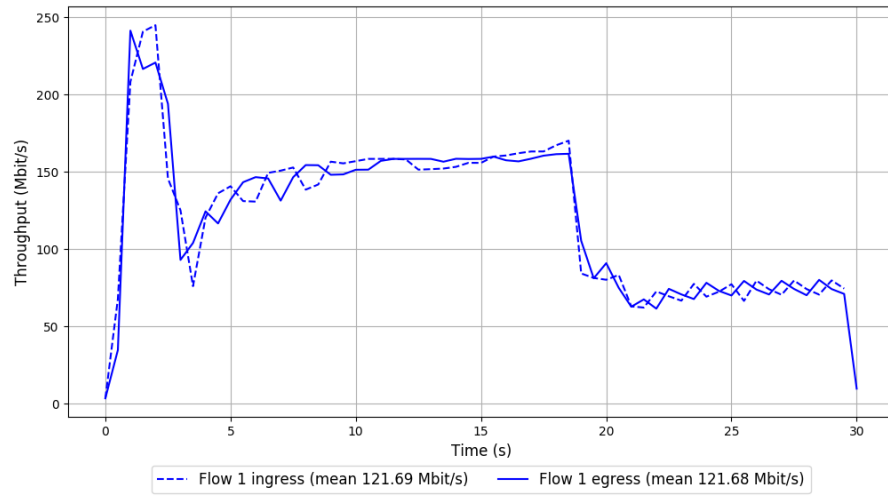
-- Flow 1:

Average throughput: 121.68 Mbit/s

95th percentile per-packet one-way delay: 55.099 ms

Loss rate: 0.00%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2017-11-21 04:52:46

End at: 2017-11-21 04:53:16

Below is generated by plot.py at 2017-11-21 06:54:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 131.35 Mbit/s

95th percentile per-packet one-way delay: 58.655 ms

Loss rate: 0.00%

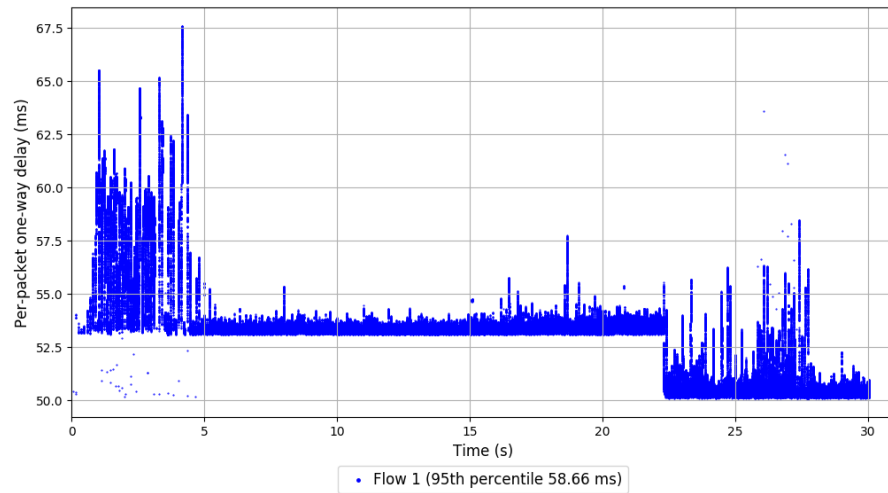
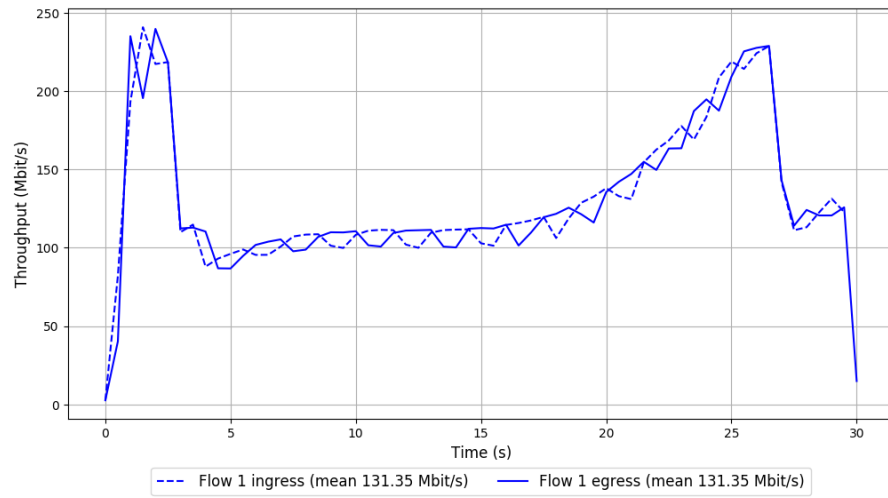
-- Flow 1:

Average throughput: 131.35 Mbit/s

95th percentile per-packet one-way delay: 58.655 ms

Loss rate: 0.00%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2017-11-21 05:03:08

End at: 2017-11-21 05:03:38

Below is generated by plot.py at 2017-11-21 06:54:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.02 Mbit/s

95th percentile per-packet one-way delay: 59.175 ms

Loss rate: 0.01%

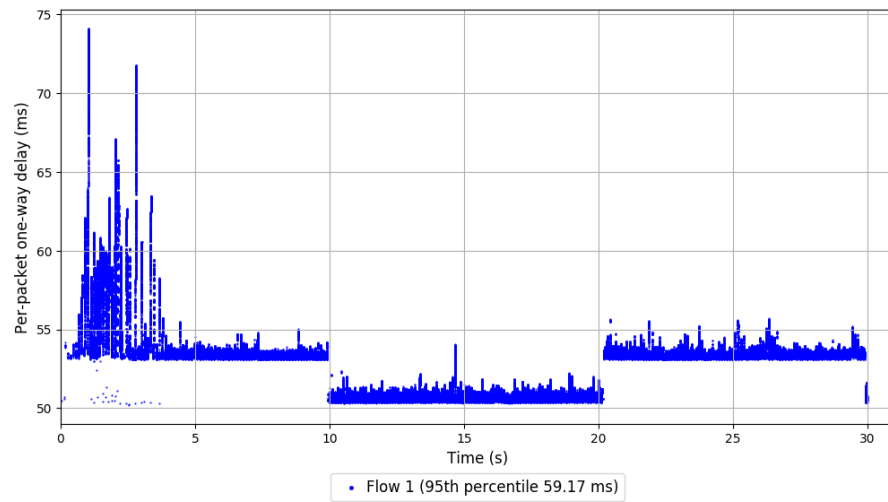
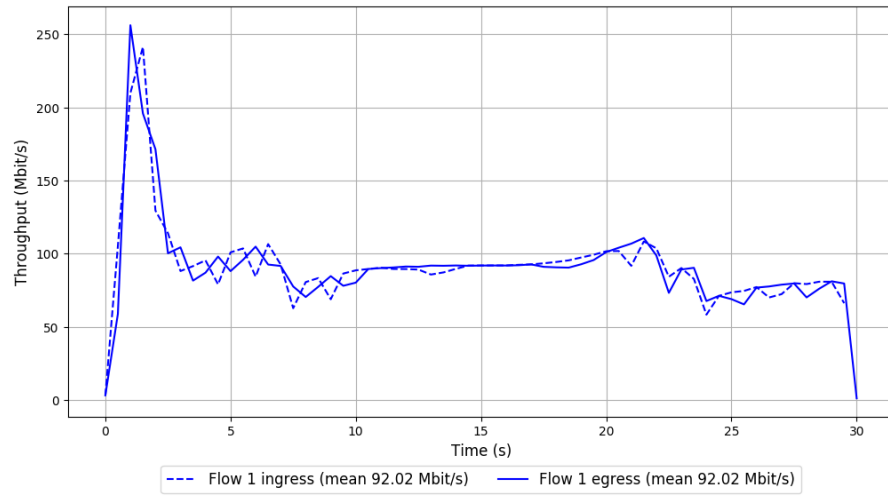
-- Flow 1:

Average throughput: 92.02 Mbit/s

95th percentile per-packet one-way delay: 59.175 ms

Loss rate: 0.01%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2017-11-21 05:13:22

End at: 2017-11-21 05:13:52

Below is generated by plot.py at 2017-11-21 06:54:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 106.25 Mbit/s

95th percentile per-packet one-way delay: 54.256 ms

Loss rate: 0.01%

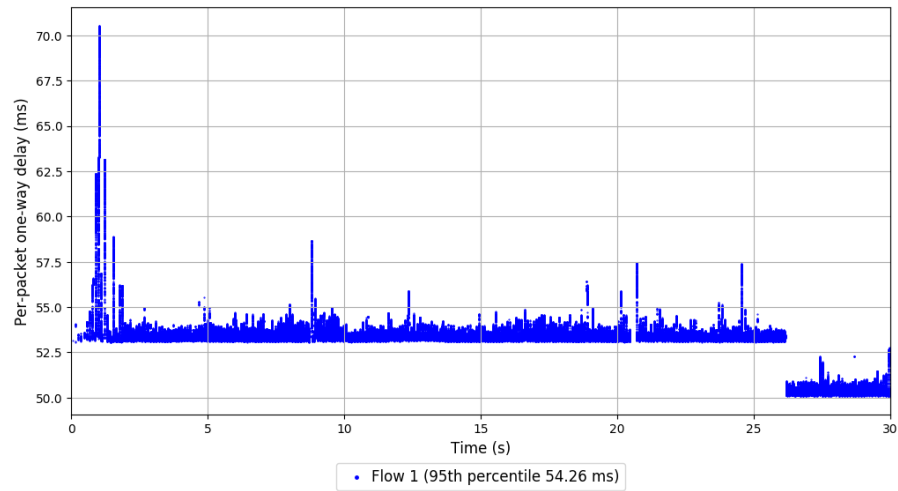
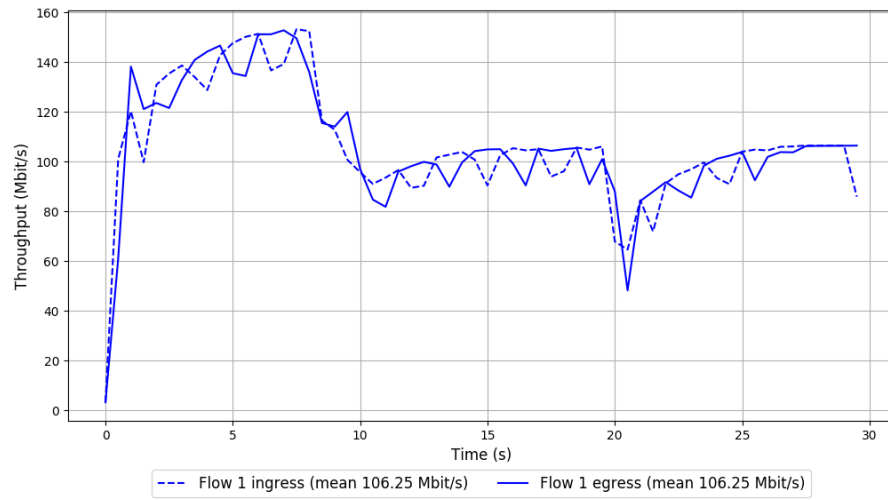
-- Flow 1:

Average throughput: 106.25 Mbit/s

95th percentile per-packet one-way delay: 54.256 ms

Loss rate: 0.01%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2017-11-21 05:23:35

End at: 2017-11-21 05:24:05

Below is generated by plot.py at 2017-11-21 06:54:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 99.12 Mbit/s

95th percentile per-packet one-way delay: 54.329 ms

Loss rate: 0.01%

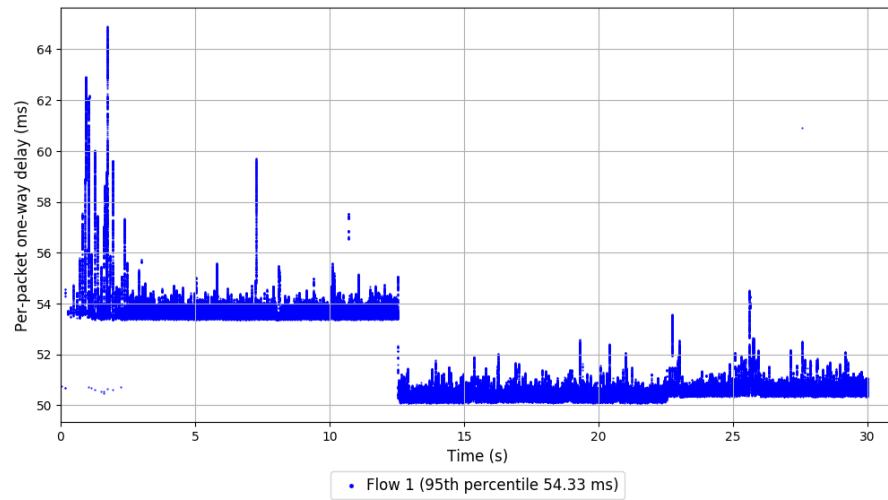
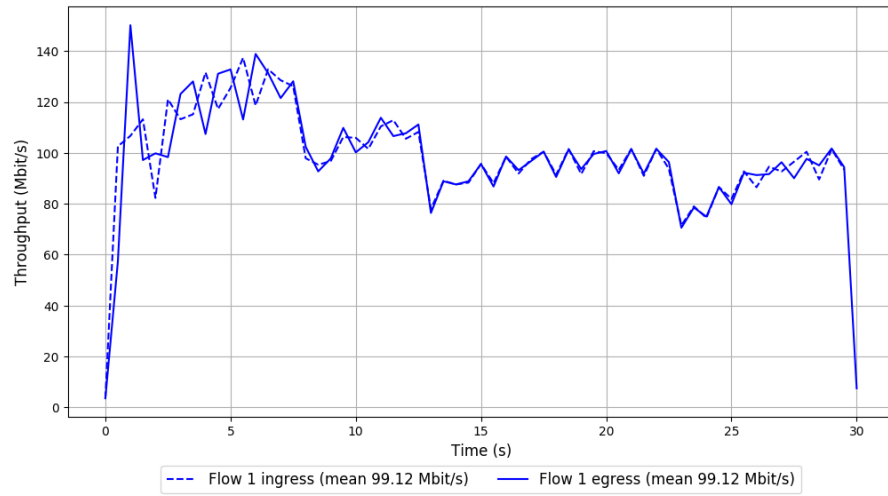
-- Flow 1:

Average throughput: 99.12 Mbit/s

95th percentile per-packet one-way delay: 54.329 ms

Loss rate: 0.01%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2017-11-21 05:33:52

End at: 2017-11-21 05:34:22

Below is generated by plot.py at 2017-11-21 06:55:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 107.21 Mbit/s

95th percentile per-packet one-way delay: 58.552 ms

Loss rate: 0.00%

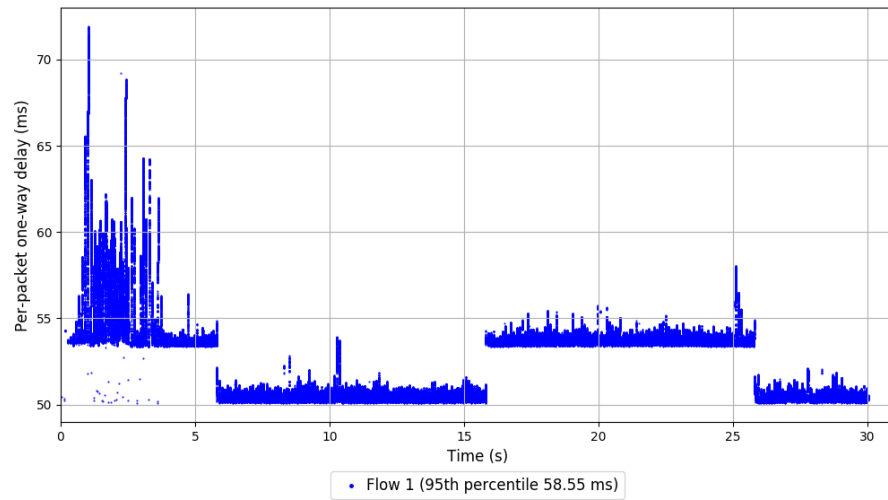
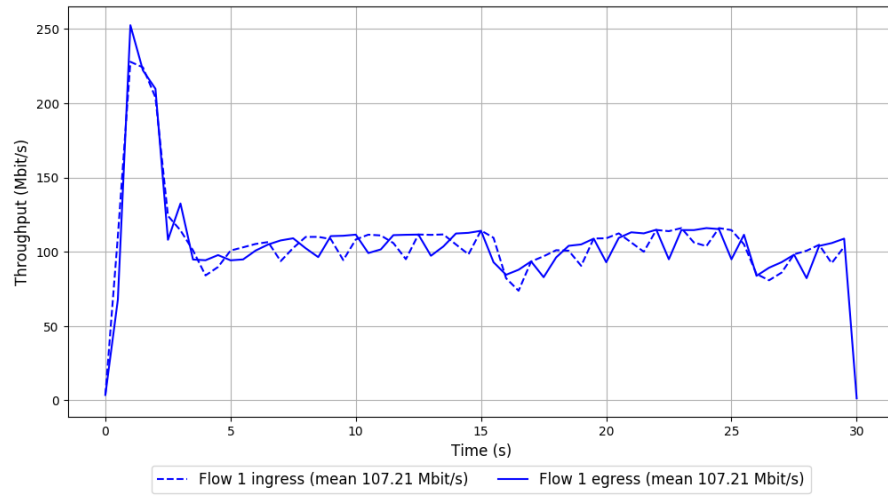
-- Flow 1:

Average throughput: 107.21 Mbit/s

95th percentile per-packet one-way delay: 58.552 ms

Loss rate: 0.00%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2017-11-21 05:44:29

End at: 2017-11-21 05:44:59

Below is generated by plot.py at 2017-11-21 06:55:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 98.57 Mbit/s

95th percentile per-packet one-way delay: 59.234 ms

Loss rate: 0.02%

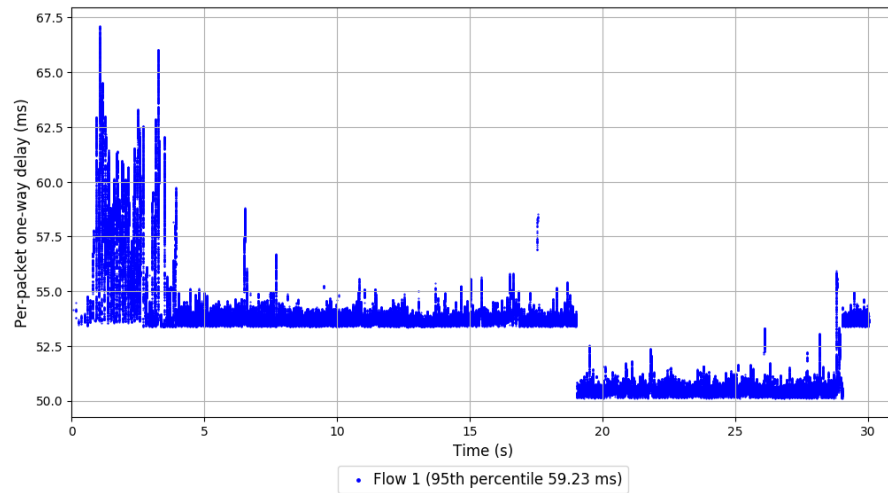
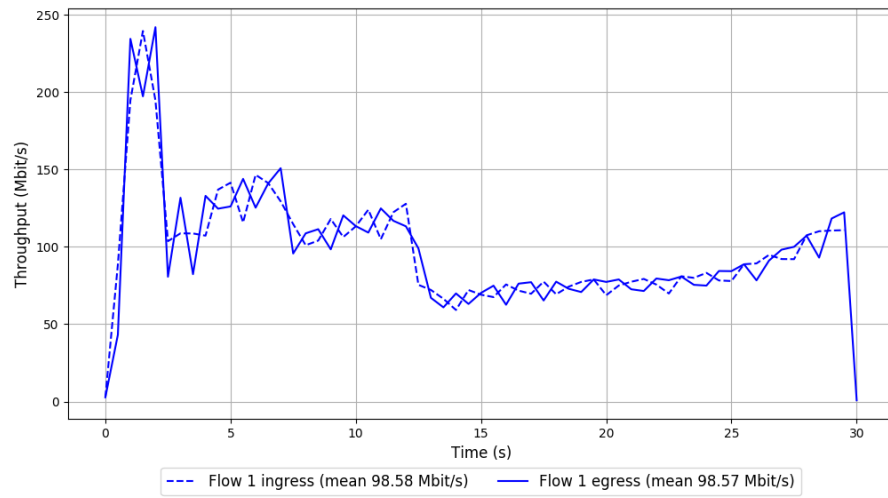
-- Flow 1:

Average throughput: 98.57 Mbit/s

95th percentile per-packet one-way delay: 59.234 ms

Loss rate: 0.02%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2017-11-21 05:54:58

End at: 2017-11-21 05:55:28

Below is generated by plot.py at 2017-11-21 06:56:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 132.48 Mbit/s

95th percentile per-packet one-way delay: 59.277 ms

Loss rate: 0.00%

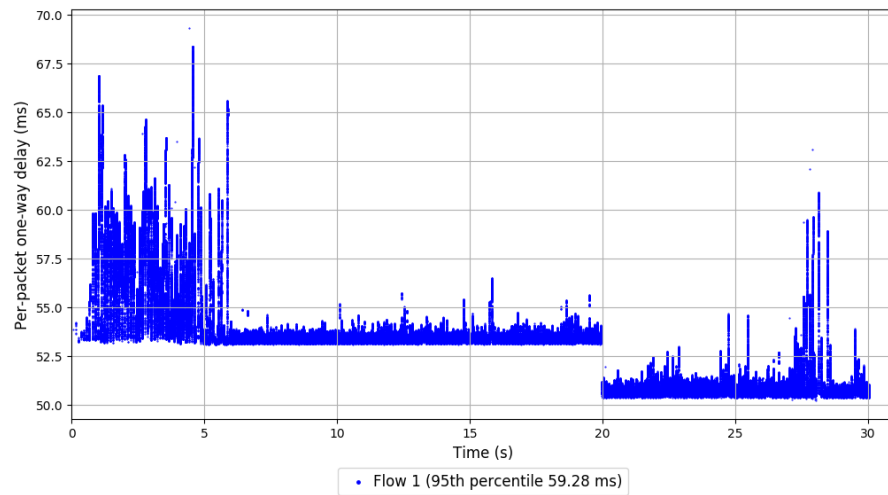
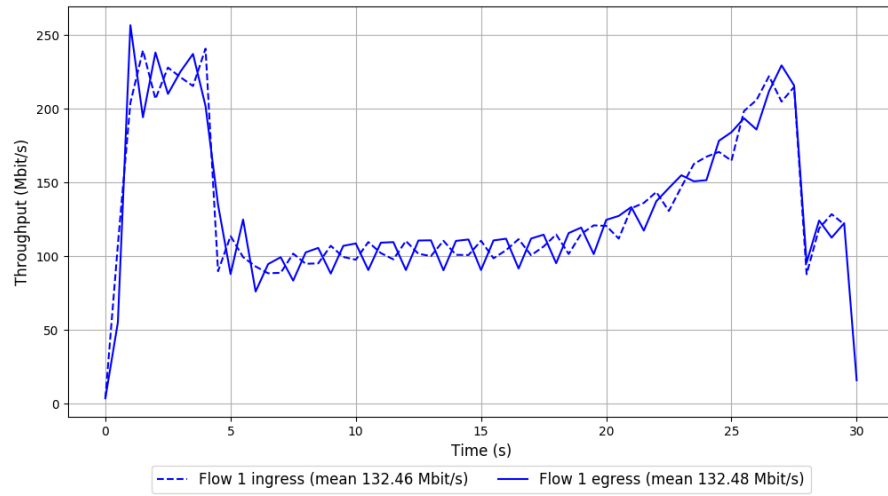
-- Flow 1:

Average throughput: 132.48 Mbit/s

95th percentile per-packet one-way delay: 59.277 ms

Loss rate: 0.00%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2017-11-21 06:05:12

End at: 2017-11-21 06:05:42

Below is generated by plot.py at 2017-11-21 06:56:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 100.67 Mbit/s

95th percentile per-packet one-way delay: 55.700 ms

Loss rate: 0.01%

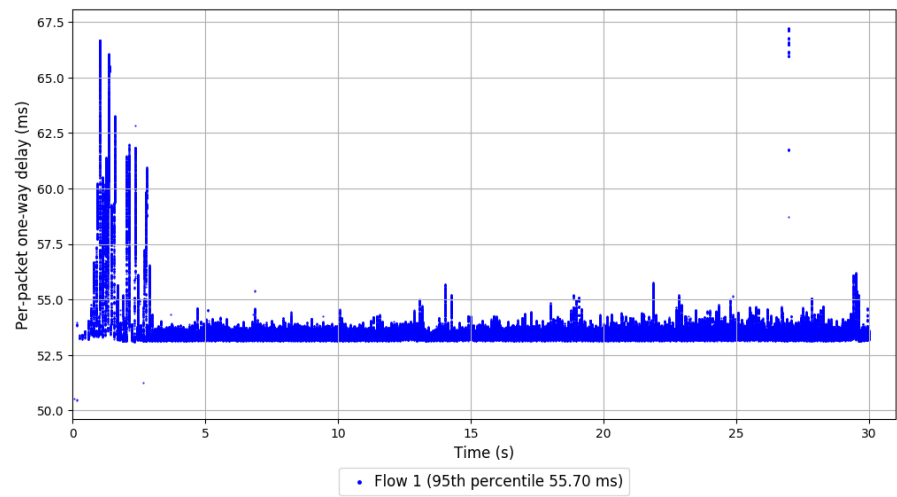
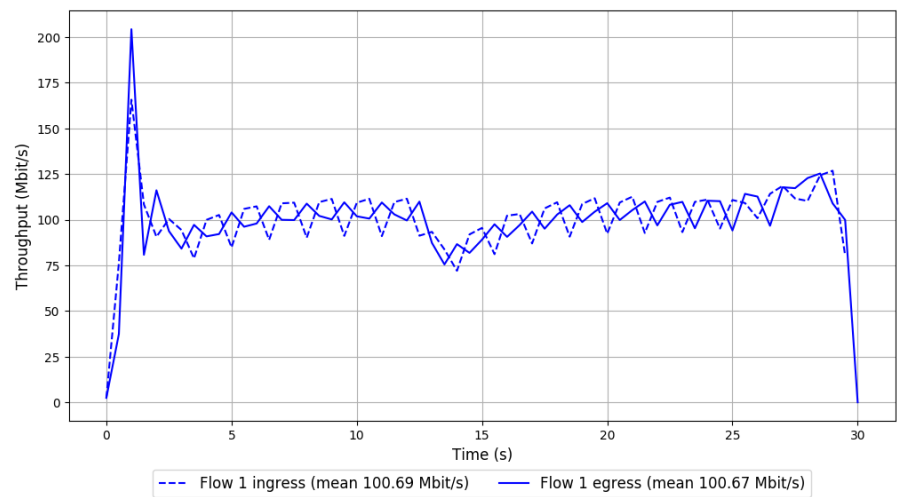
-- Flow 1:

Average throughput: 100.67 Mbit/s

95th percentile per-packet one-way delay: 55.700 ms

Loss rate: 0.01%

Run 10: Report of TCP Cubic — Data Link

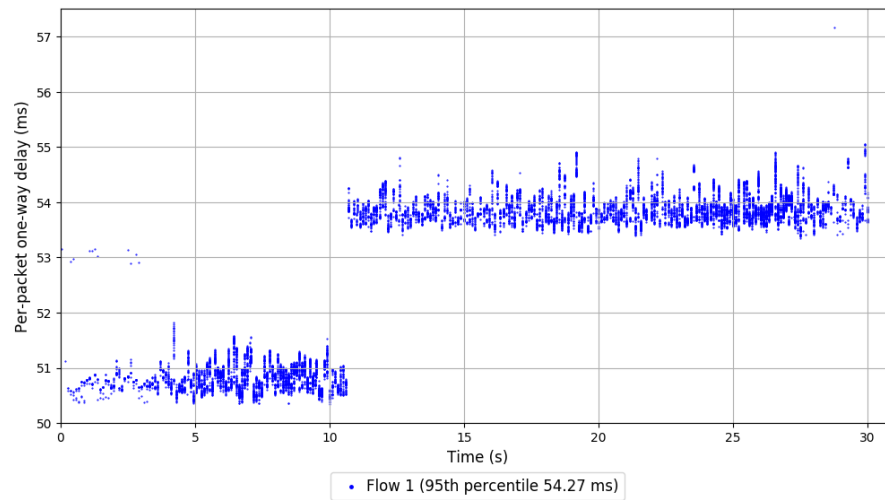
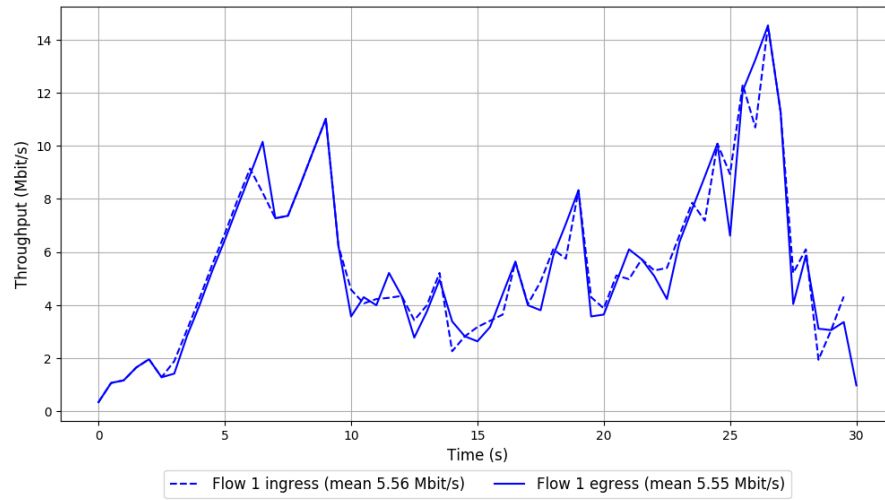


```
Run 1: Statistics of LEDBAT

Start at: 2017-11-21 04:25:17
End at: 2017-11-21 04:25:47

# Below is generated by plot.py at 2017-11-21 06:56:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 5.55 Mbit/s
95th percentile per-packet one-way delay: 54.273 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 5.55 Mbit/s
95th percentile per-packet one-way delay: 54.273 ms
Loss rate: 0.20%
```


Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2017-11-21 04:35:28

End at: 2017-11-21 04:35:58

Below is generated by plot.py at 2017-11-21 06:56:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.69 Mbit/s

95th percentile per-packet one-way delay: 54.049 ms

Loss rate: 0.23%

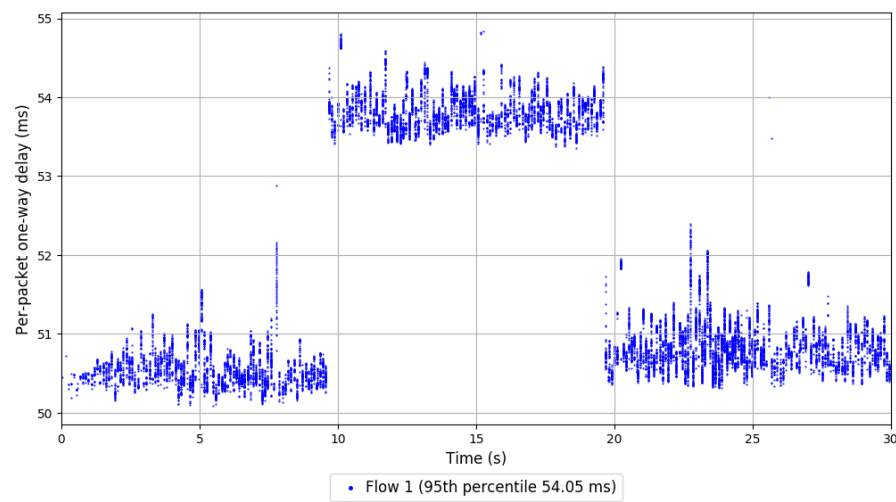
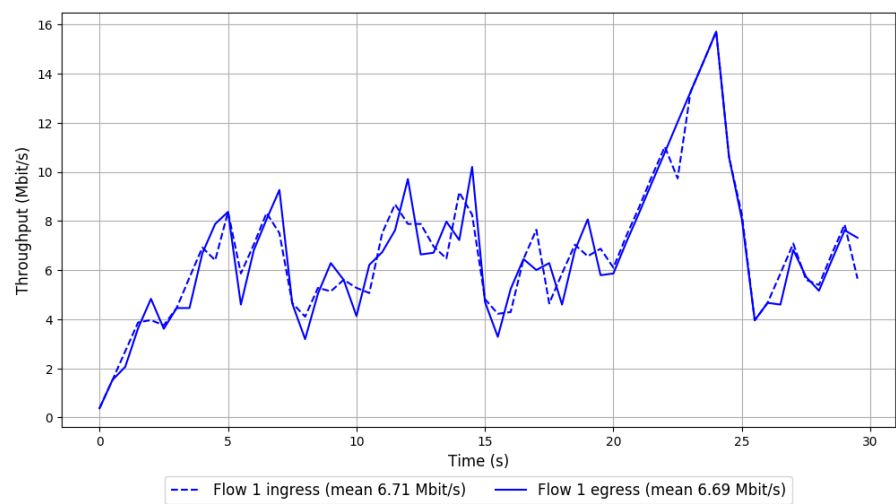
-- Flow 1:

Average throughput: 6.69 Mbit/s

95th percentile per-packet one-way delay: 54.049 ms

Loss rate: 0.23%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2017-11-21 04:46:03

End at: 2017-11-21 04:46:33

Below is generated by plot.py at 2017-11-21 06:56:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 8.04 Mbit/s

95th percentile per-packet one-way delay: 54.049 ms

Loss rate: 0.00%

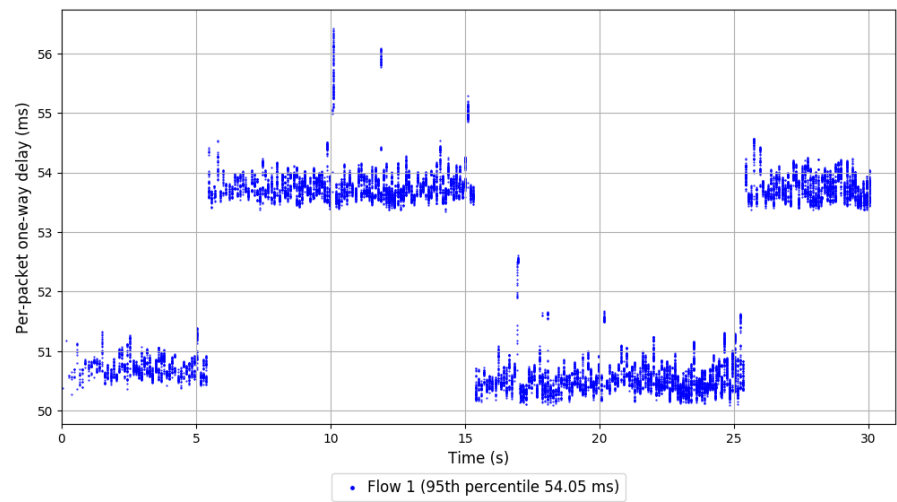
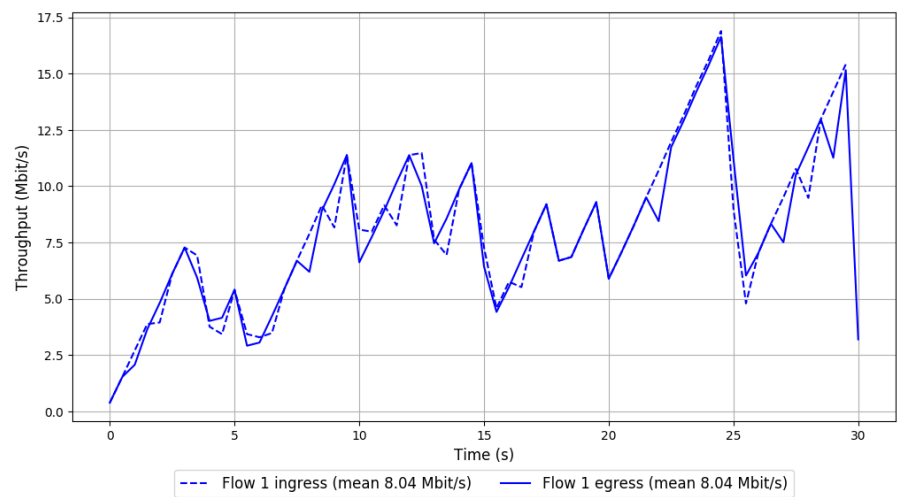
-- Flow 1:

Average throughput: 8.04 Mbit/s

95th percentile per-packet one-way delay: 54.049 ms

Loss rate: 0.00%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2017-11-21 04:56:30

End at: 2017-11-21 04:57:00

Below is generated by plot.py at 2017-11-21 06:56:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.86 Mbit/s

95th percentile per-packet one-way delay: 53.851 ms

Loss rate: 0.04%

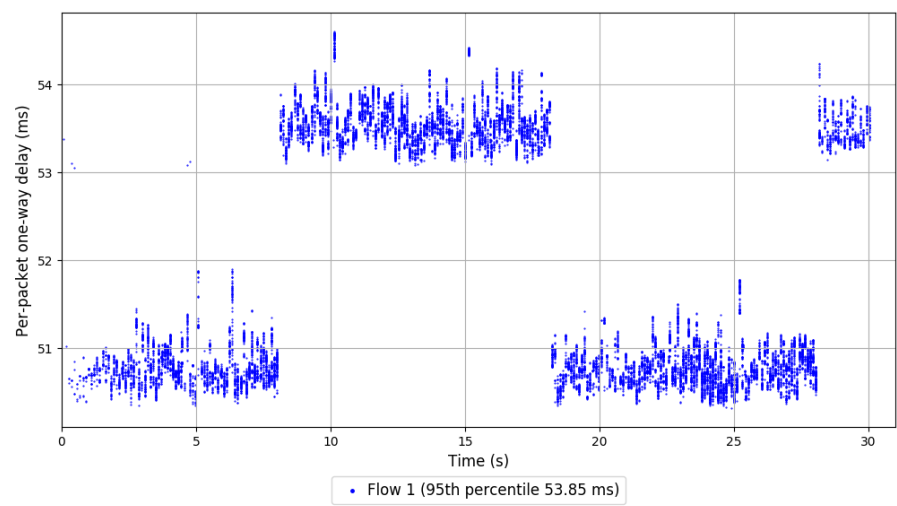
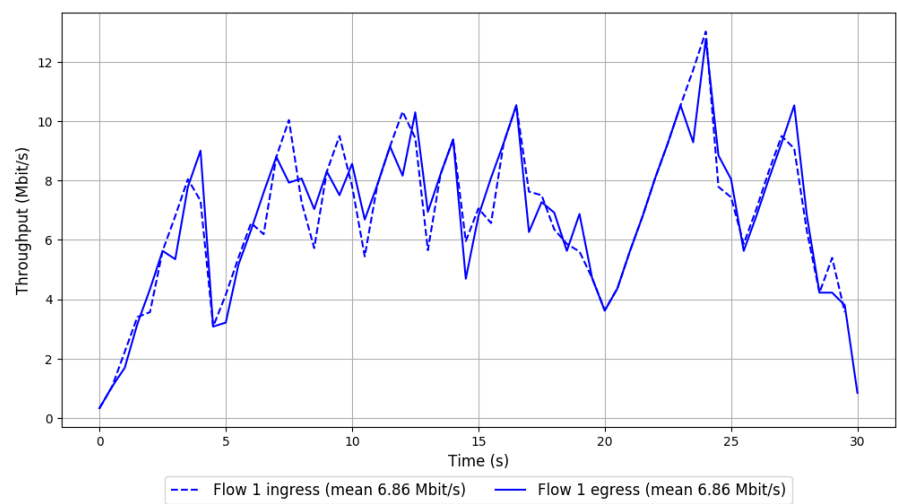
-- Flow 1:

Average throughput: 6.86 Mbit/s

95th percentile per-packet one-way delay: 53.851 ms

Loss rate: 0.04%

Run 4: Report of LEDBAT — Data Link

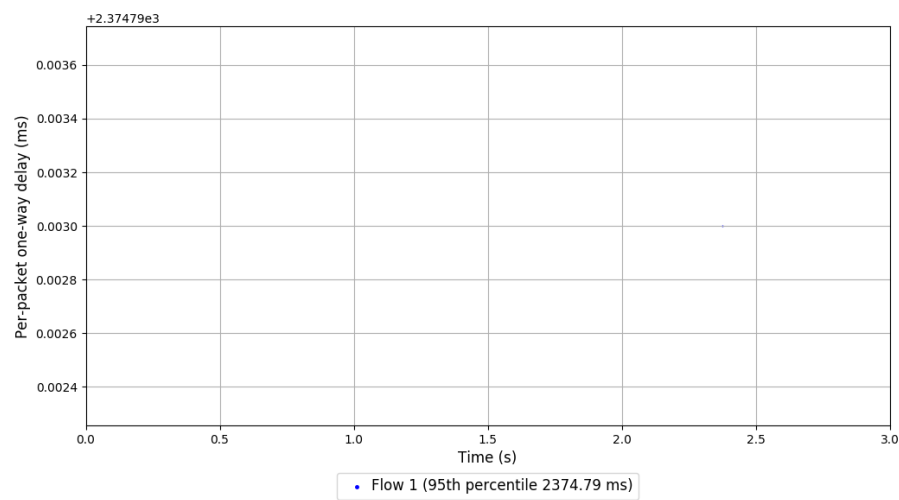
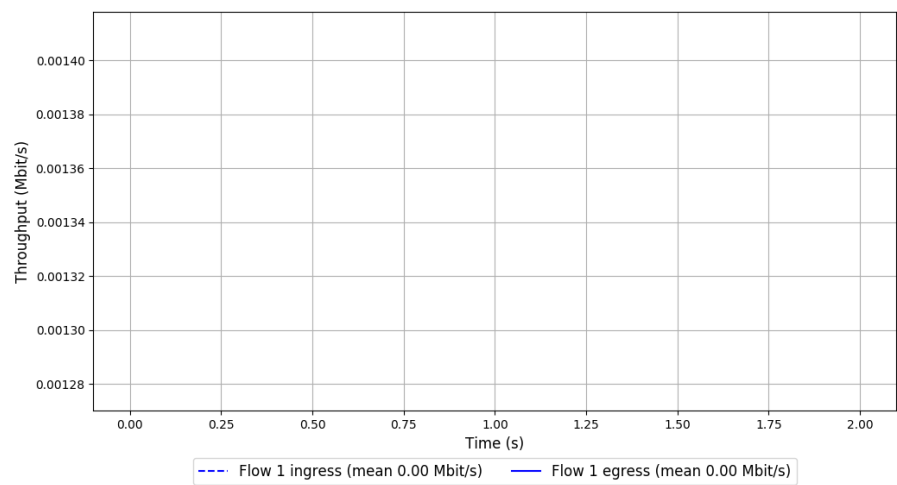


Run 5: Statistics of LEDBAT

Start at: 2017-11-21 05:06:48

End at: 2017-11-21 05:07:18

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2017-11-21 05:17:04

End at: 2017-11-21 05:17:34

Below is generated by plot.py at 2017-11-21 06:56:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 8.02 Mbit/s

95th percentile per-packet one-way delay: 53.862 ms

Loss rate: 0.15%

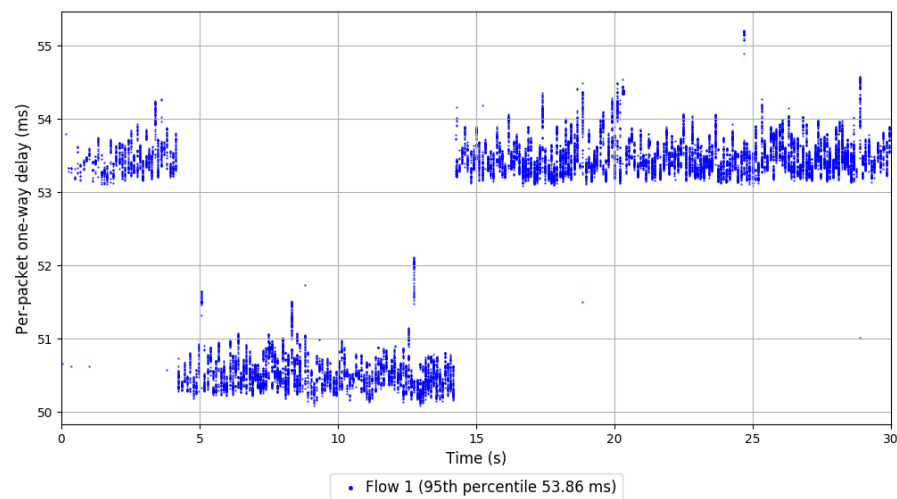
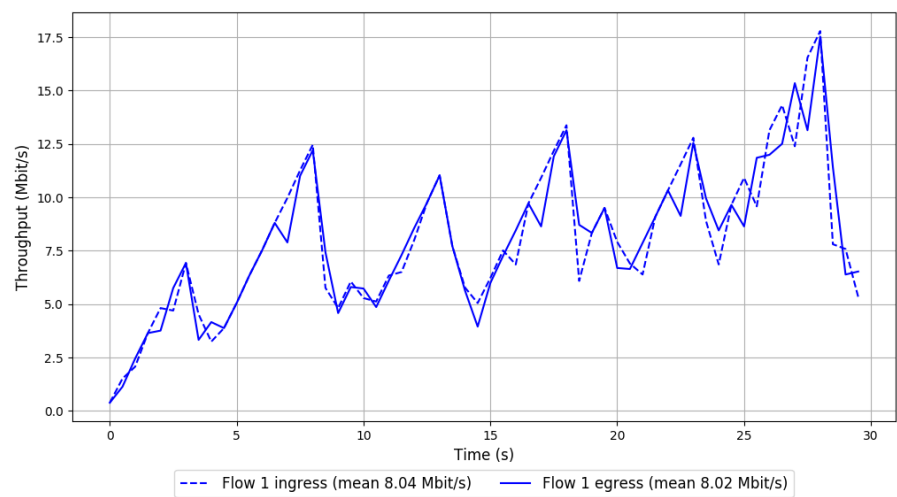
-- Flow 1:

Average throughput: 8.02 Mbit/s

95th percentile per-packet one-way delay: 53.862 ms

Loss rate: 0.15%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2017-11-21 05:27:20

End at: 2017-11-21 05:27:50

Below is generated by plot.py at 2017-11-21 06:56:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.73 Mbit/s

95th percentile per-packet one-way delay: 54.221 ms

Loss rate: 0.24%

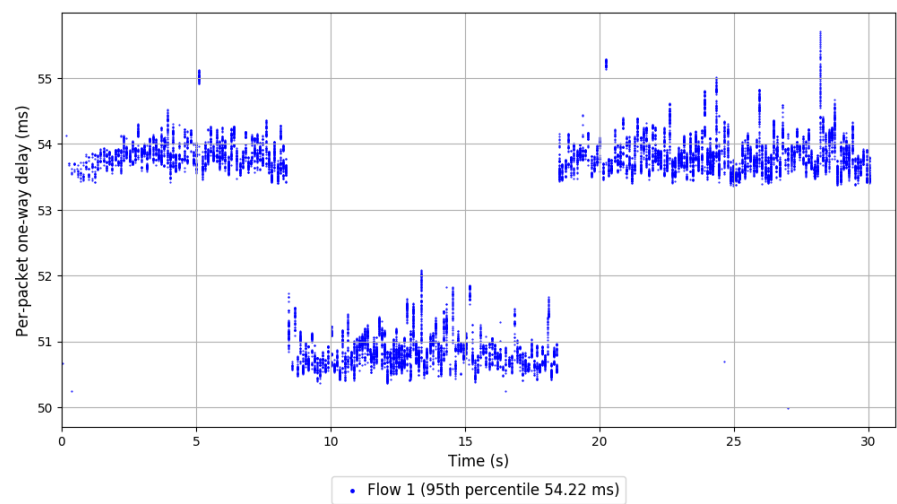
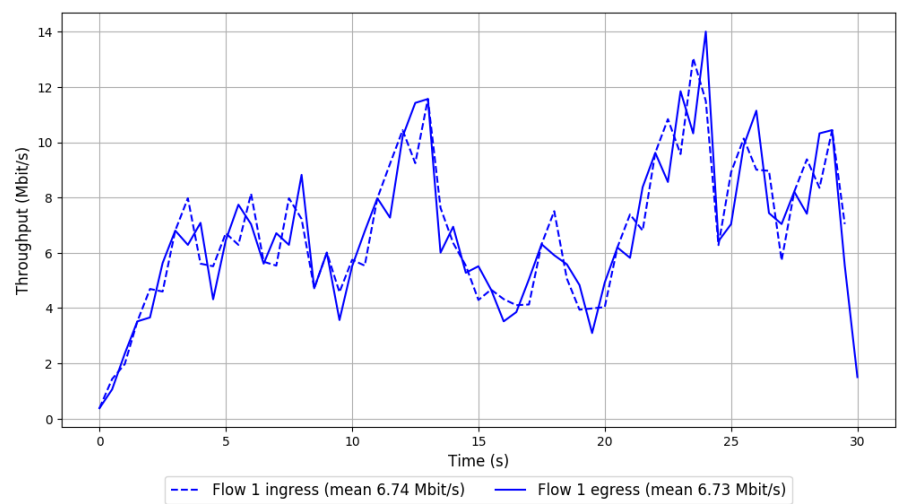
-- Flow 1:

Average throughput: 6.73 Mbit/s

95th percentile per-packet one-way delay: 54.221 ms

Loss rate: 0.24%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2017-11-21 05:37:35

End at: 2017-11-21 05:38:05

Below is generated by plot.py at 2017-11-21 06:56:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 9.68 Mbit/s

95th percentile per-packet one-way delay: 54.261 ms

Loss rate: 0.00%

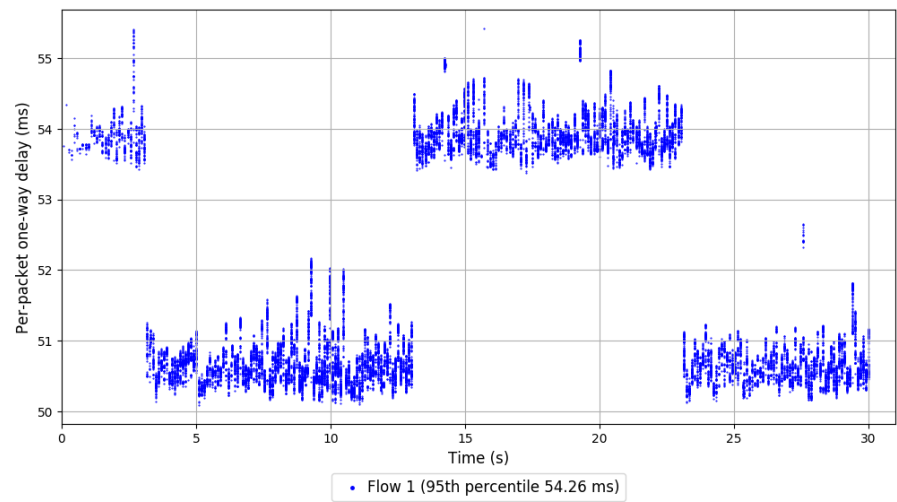
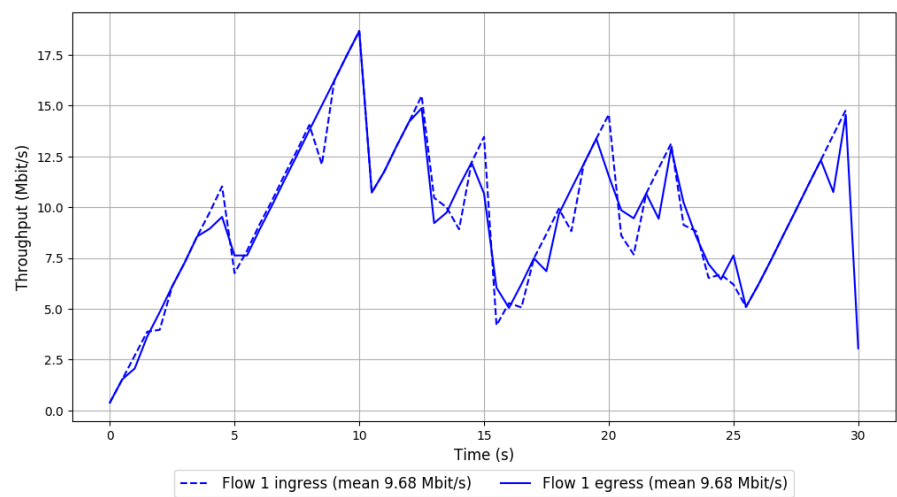
-- Flow 1:

Average throughput: 9.68 Mbit/s

95th percentile per-packet one-way delay: 54.261 ms

Loss rate: 0.00%

Run 8: Report of LEDBAT — Data Link

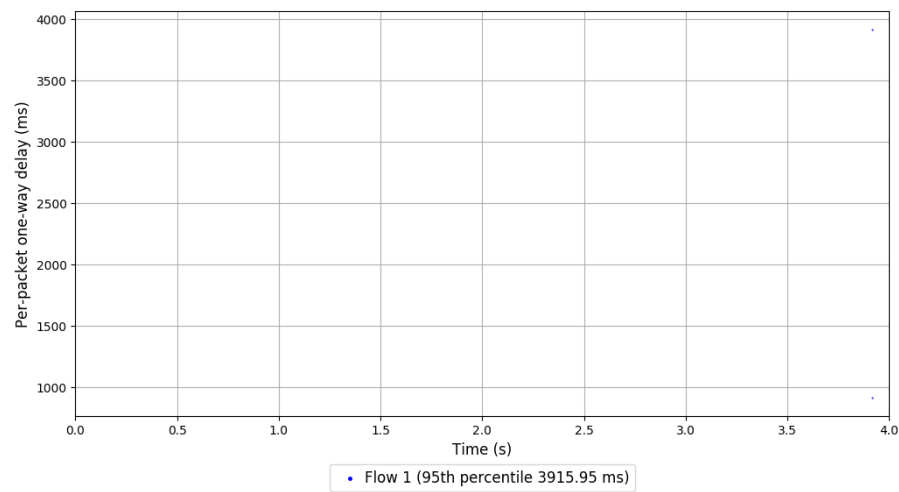
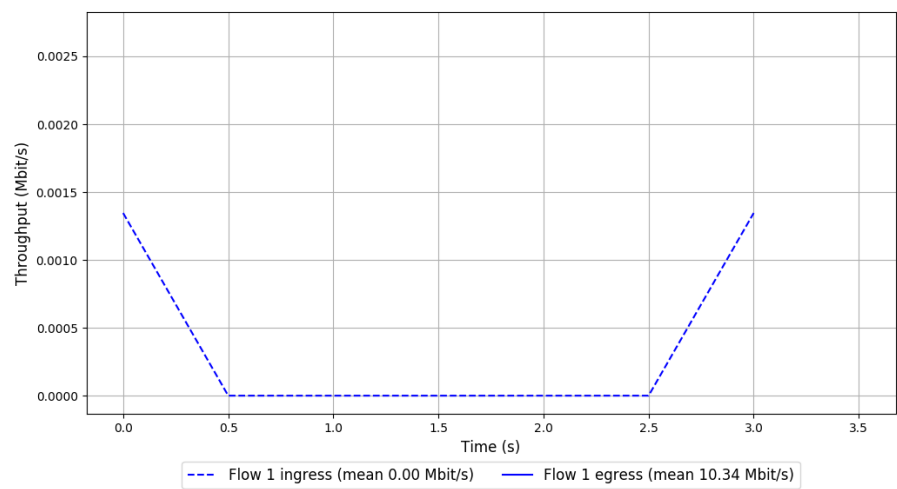


Run 9: Statistics of LEDBAT

Start at: 2017-11-21 05:48:09

End at: 2017-11-21 05:48:39

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2017-11-21 05:58:43

End at: 2017-11-21 05:59:13

Below is generated by plot.py at 2017-11-21 06:56:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 9.58 Mbit/s

95th percentile per-packet one-way delay: 53.946 ms

Loss rate: 0.11%

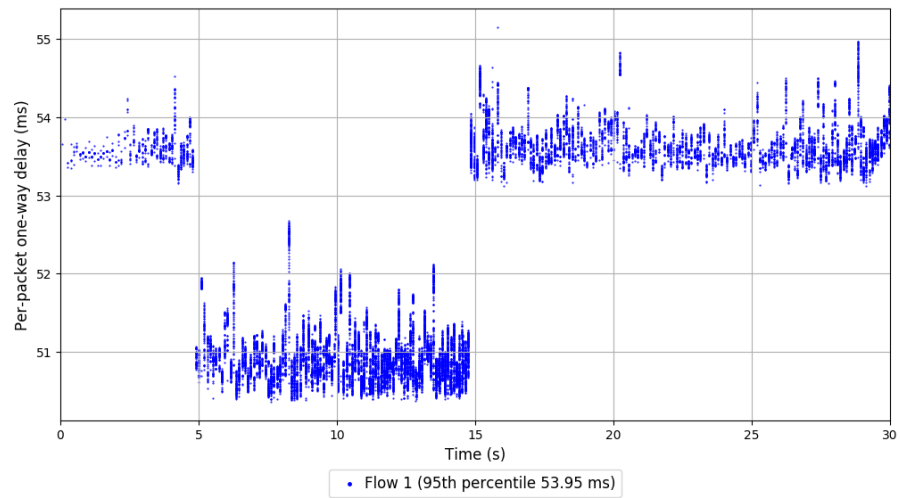
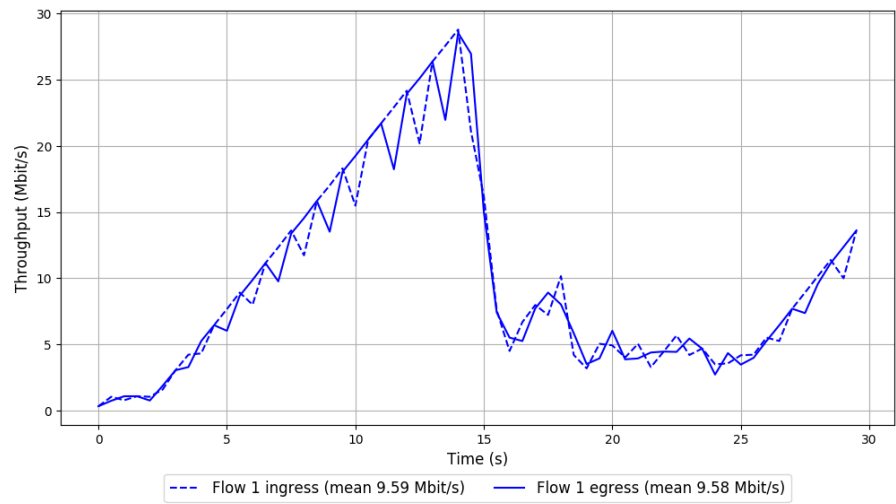
-- Flow 1:

Average throughput: 9.58 Mbit/s

95th percentile per-packet one-way delay: 53.946 ms

Loss rate: 0.11%

Run 10: Report of LEDBAT — Data Link



Run 1: Statistics of PCC

Start at: 2017-11-21 04:23:02

End at: 2017-11-21 04:23:32

Below is generated by plot.py at 2017-11-21 07:05:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 642.83 Mbit/s

95th percentile per-packet one-way delay: 142.457 ms

Loss rate: 1.03%

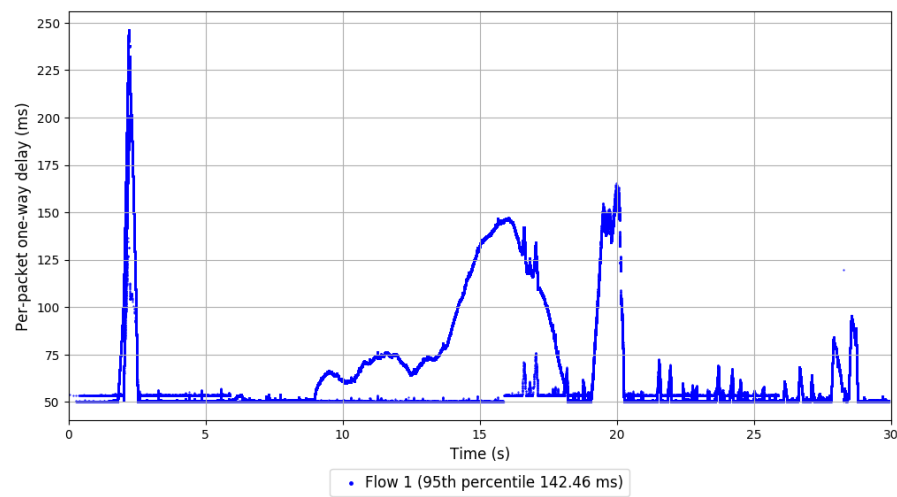
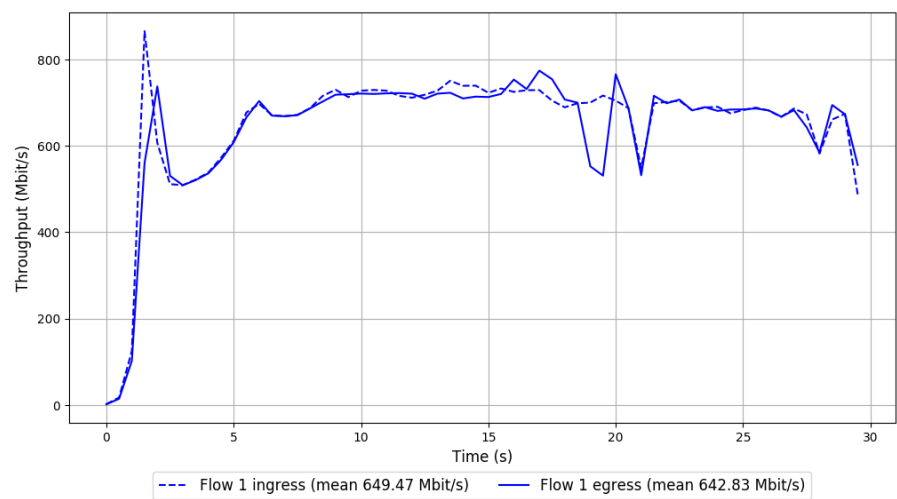
-- Flow 1:

Average throughput: 642.83 Mbit/s

95th percentile per-packet one-way delay: 142.457 ms

Loss rate: 1.03%

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2017-11-21 04:33:13

End at: 2017-11-21 04:33:43

Below is generated by plot.py at 2017-11-21 07:05:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 633.74 Mbit/s

95th percentile per-packet one-way delay: 79.162 ms

Loss rate: 0.20%

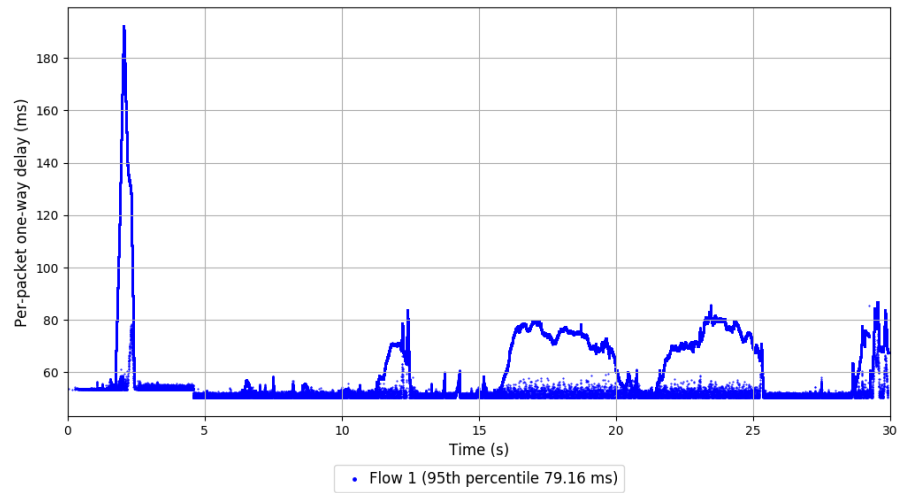
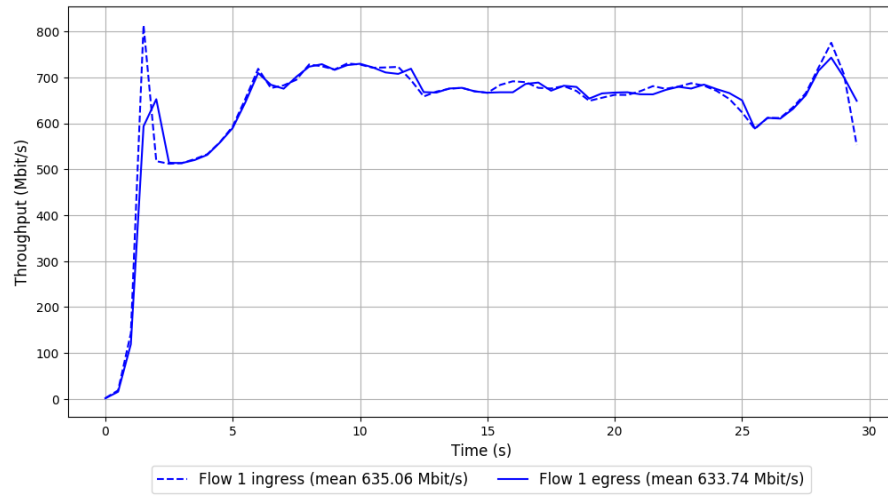
-- Flow 1:

Average throughput: 633.74 Mbit/s

95th percentile per-packet one-way delay: 79.162 ms

Loss rate: 0.20%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2017-11-21 04:43:46

End at: 2017-11-21 04:44:16

Below is generated by plot.py at 2017-11-21 07:06:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 663.67 Mbit/s

95th percentile per-packet one-way delay: 118.960 ms

Loss rate: 0.30%

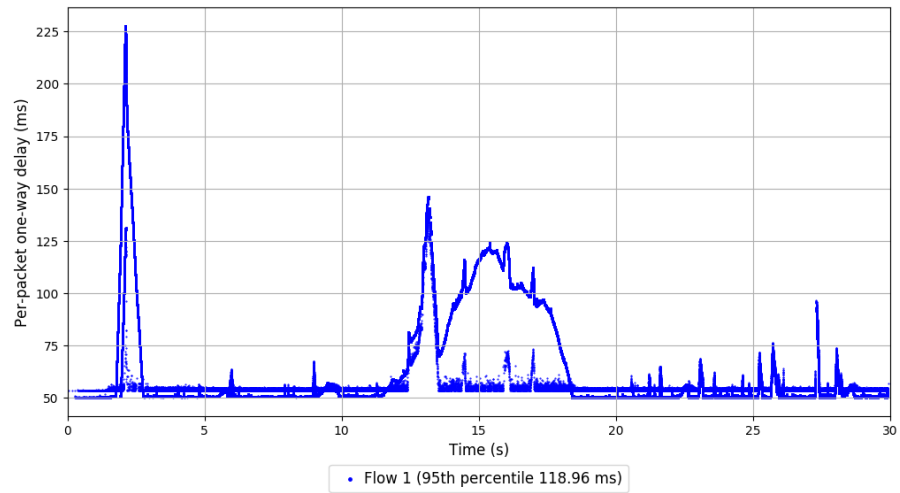
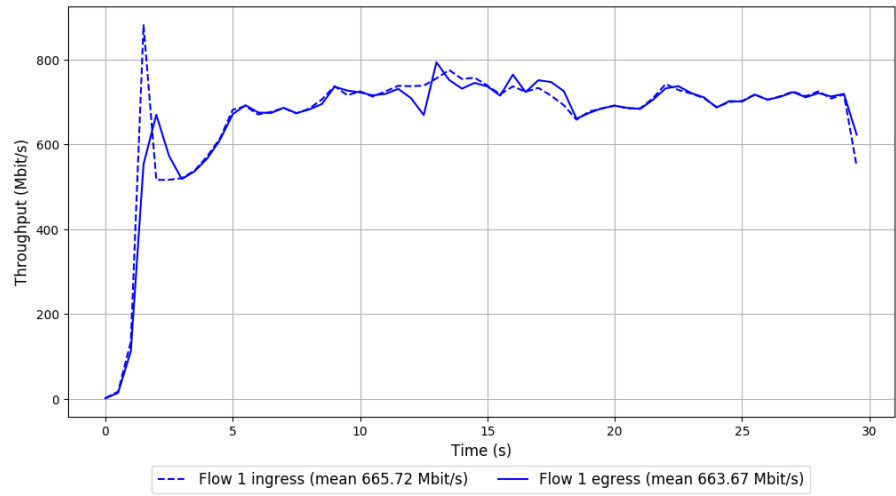
-- Flow 1:

Average throughput: 663.67 Mbit/s

95th percentile per-packet one-way delay: 118.960 ms

Loss rate: 0.30%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2017-11-21 04:54:15

End at: 2017-11-21 04:54:45

Below is generated by plot.py at 2017-11-21 07:06:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 653.77 Mbit/s

95th percentile per-packet one-way delay: 66.582 ms

Loss rate: 0.25%

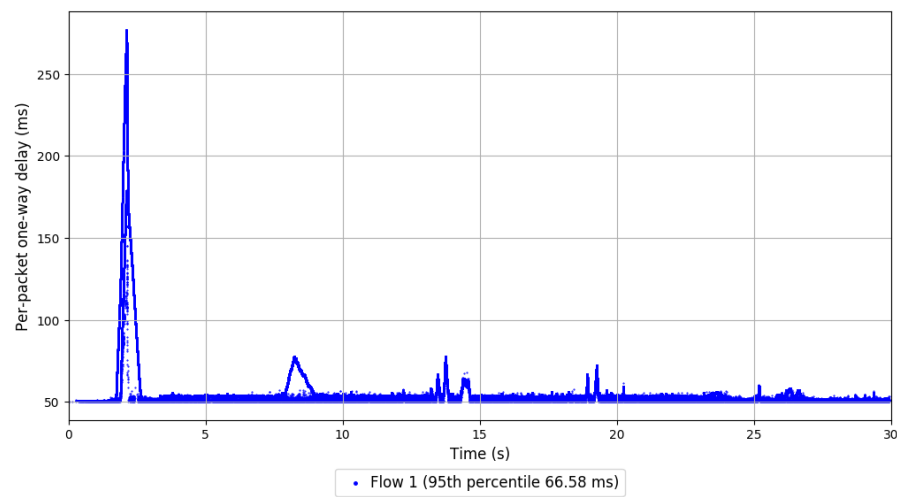
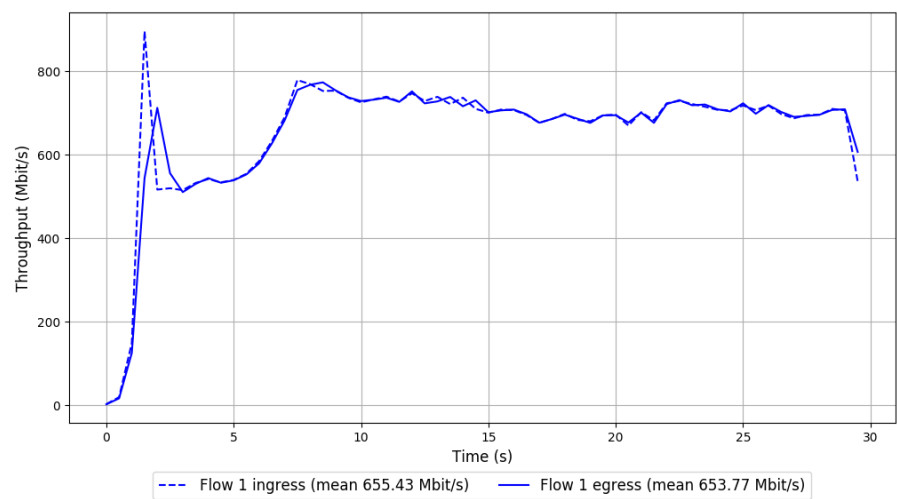
-- Flow 1:

Average throughput: 653.77 Mbit/s

95th percentile per-packet one-way delay: 66.582 ms

Loss rate: 0.25%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2017-11-21 05:04:35

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

Below is generated by plot.py at 2017-11-21 07:06:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 574.77 Mbit/s

95th percentile per-packet one-way delay: 170.233 ms

Loss rate: 1.36%

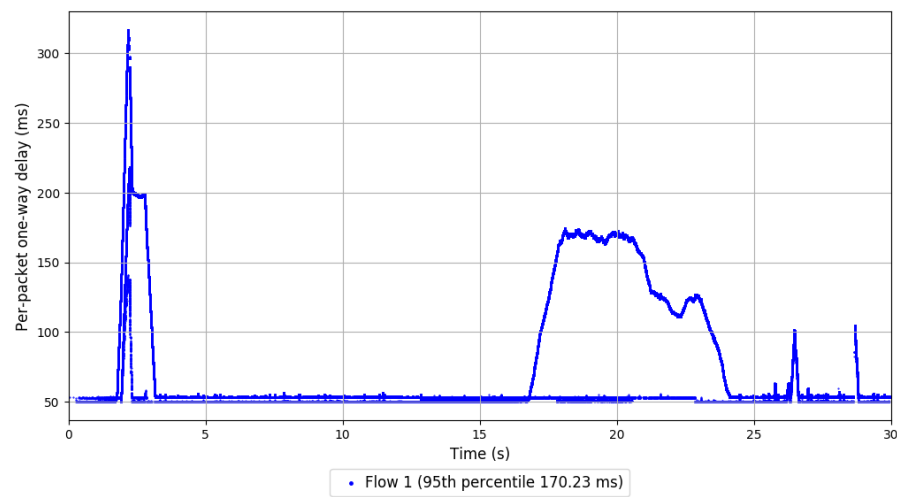
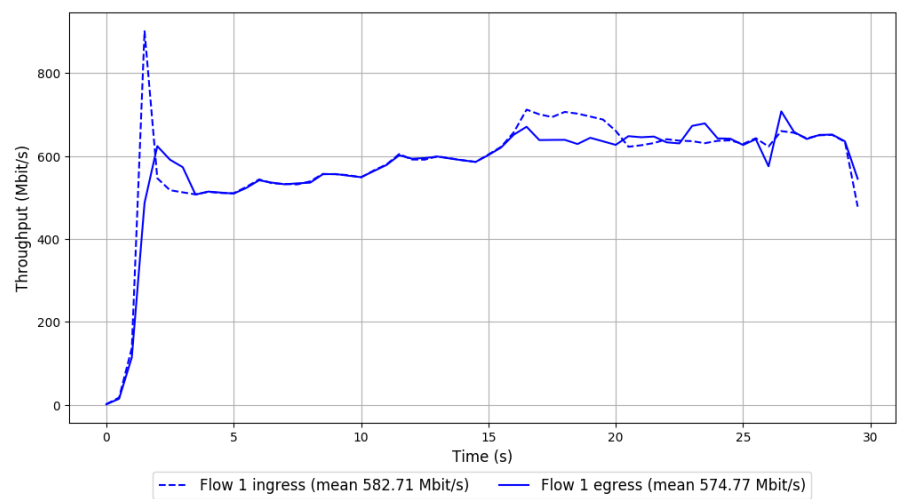
-- Flow 1:

Average throughput: 574.77 Mbit/s

95th percentile per-packet one-way delay: 170.233 ms

Loss rate: 1.36%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2017-11-21 05:14:48

End at: 2017-11-21 05:15:18

Below is generated by plot.py at 2017-11-21 07:06:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 655.28 Mbit/s

95th percentile per-packet one-way delay: 109.718 ms

Loss rate: 0.70%

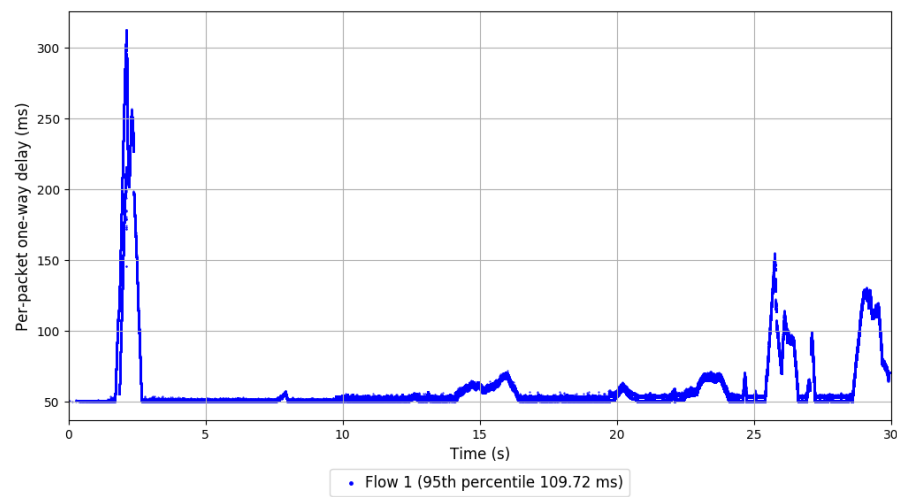
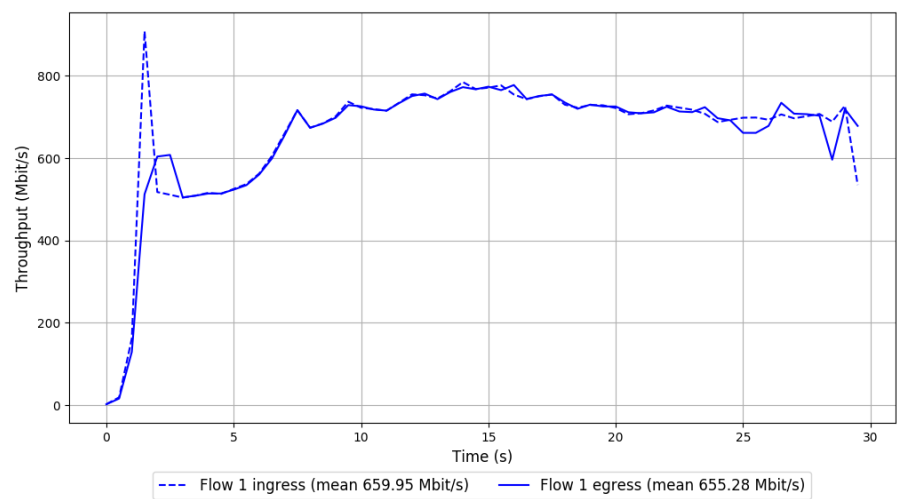
-- Flow 1:

Average throughput: 655.28 Mbit/s

95th percentile per-packet one-way delay: 109.718 ms

Loss rate: 0.70%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2017-11-21 05:25:04

End at: 2017-11-21 05:25:34

Below is generated by plot.py at 2017-11-21 07:06:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 632.09 Mbit/s

95th percentile per-packet one-way delay: 174.102 ms

Loss rate: 2.50%

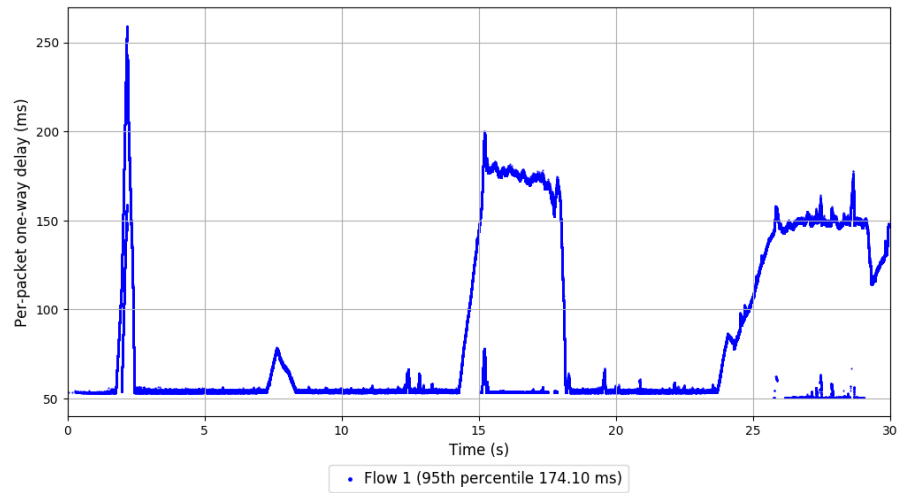
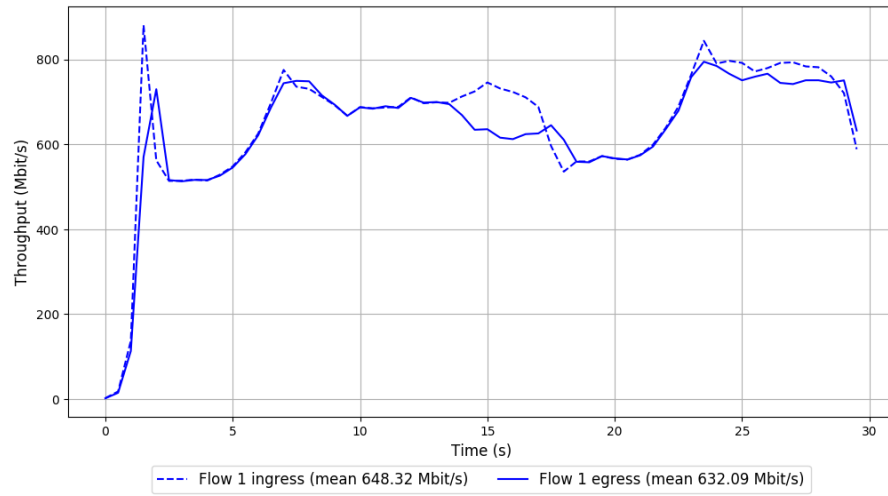
-- Flow 1:

Average throughput: 632.09 Mbit/s

95th percentile per-packet one-way delay: 174.102 ms

Loss rate: 2.50%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2017-11-21 05:35:19

End at: 2017-11-21 05:35:49

Below is generated by plot.py at 2017-11-21 07:08:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 674.30 Mbit/s

95th percentile per-packet one-way delay: 117.955 ms

Loss rate: 0.61%

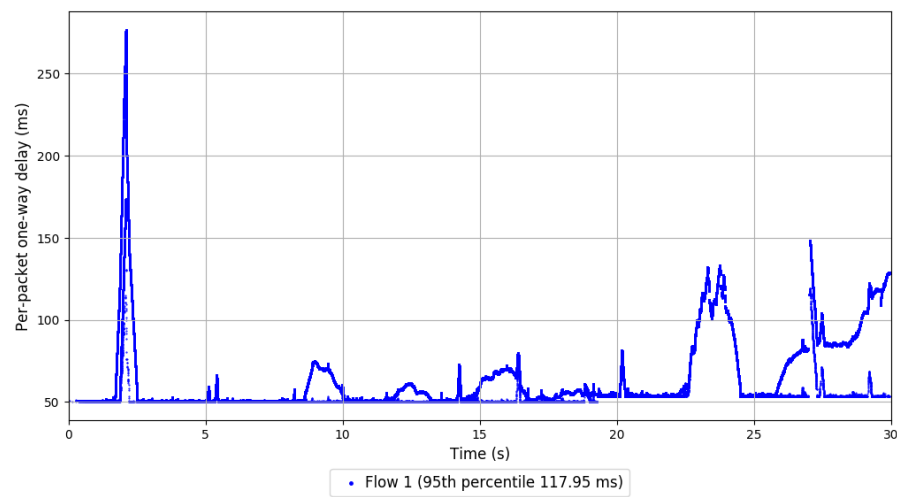
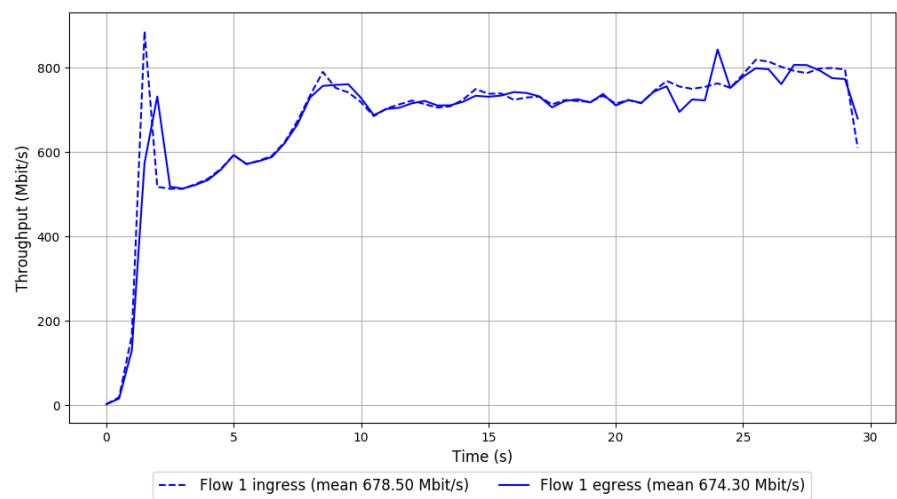
-- Flow 1:

Average throughput: 674.30 Mbit/s

95th percentile per-packet one-way delay: 117.955 ms

Loss rate: 0.61%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2017-11-21 05:45:56

End at: 2017-11-21 05:46:26

Below is generated by plot.py at 2017-11-21 07:16:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 603.93 Mbit/s

95th percentile per-packet one-way delay: 112.830 ms

Loss rate: 0.87%

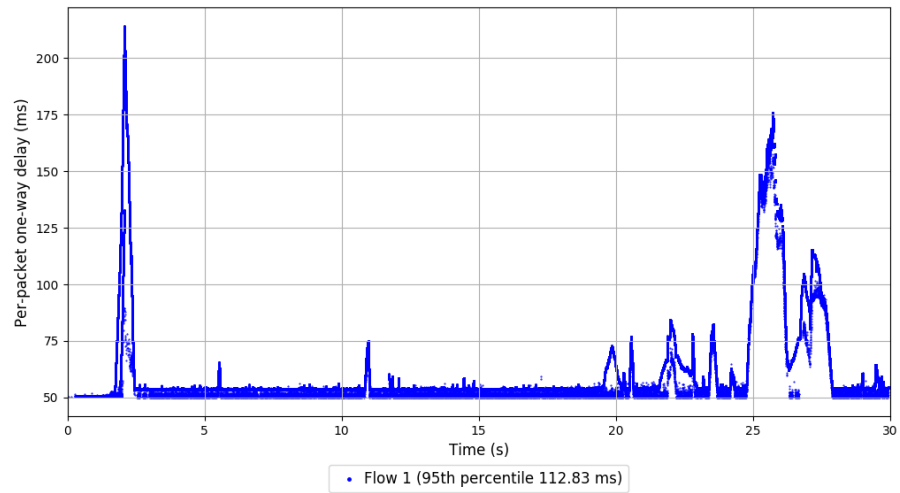
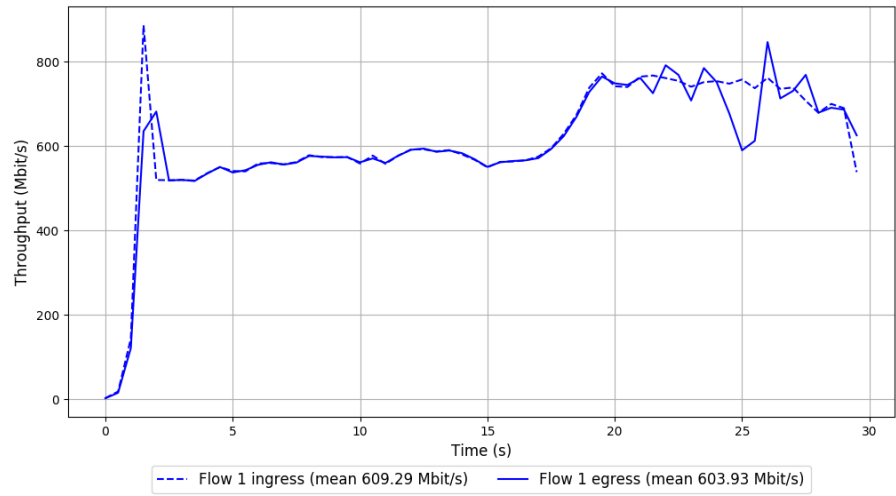
-- Flow 1:

Average throughput: 603.93 Mbit/s

95th percentile per-packet one-way delay: 112.830 ms

Loss rate: 0.87%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2017-11-21 05:56:27

End at: 2017-11-21 05:56:57

Below is generated by plot.py at 2017-11-21 07:17:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 662.79 Mbit/s

95th percentile per-packet one-way delay: 152.084 ms

Loss rate: 2.39%

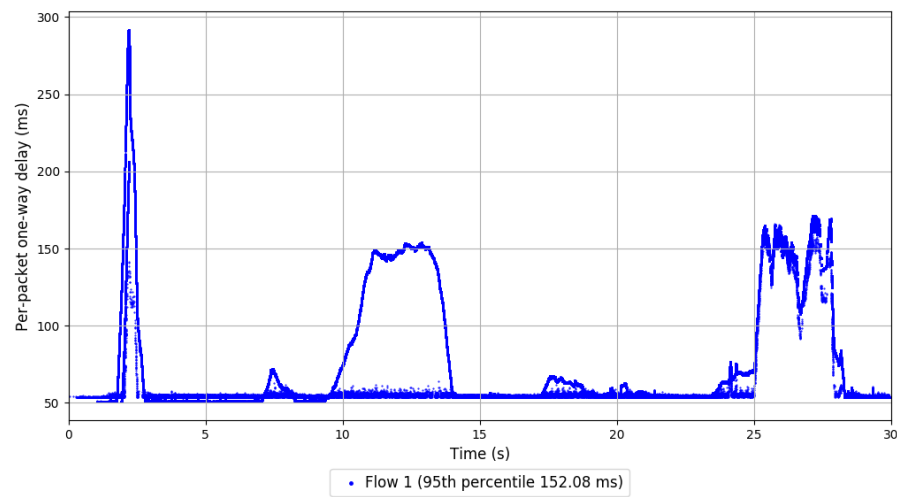
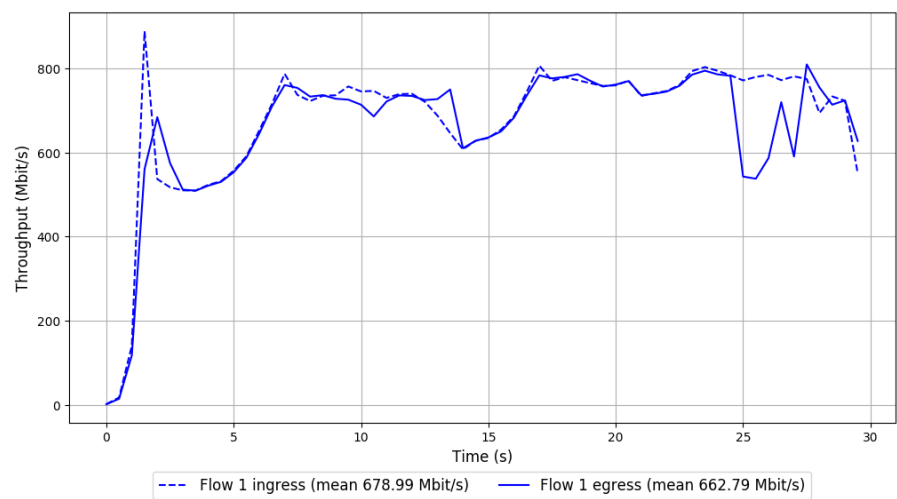
-- Flow 1:

Average throughput: 662.79 Mbit/s

95th percentile per-packet one-way delay: 152.084 ms

Loss rate: 2.39%

Run 10: Report of PCC — Data Link

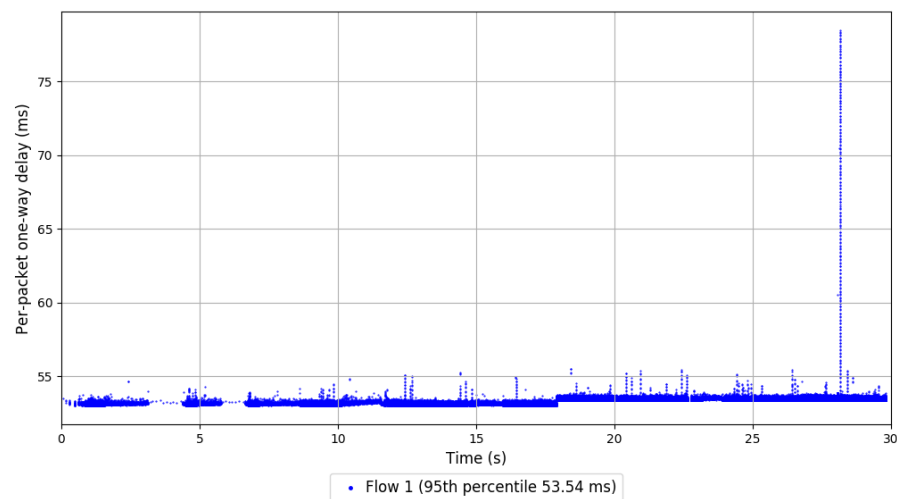
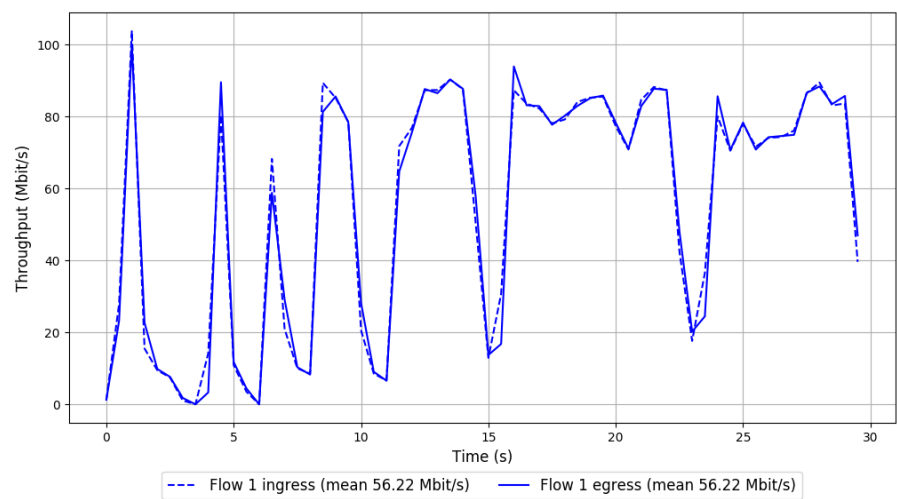


```
Run 1: Statistics of QUIC Cubic

Start at: 2017-11-21 04:30:20
End at: 2017-11-21 04:30:50

# Below is generated by plot.py at 2017-11-21 07:17:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 56.22 Mbit/s
95th percentile per-packet one-way delay: 53.543 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 56.22 Mbit/s
95th percentile per-packet one-way delay: 53.543 ms
Loss rate: 0.00%
```


Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2017-11-21 04:40:53

End at: 2017-11-21 04:41:23

Below is generated by plot.py at 2017-11-21 07:17:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.07 Mbit/s

95th percentile per-packet one-way delay: 50.522 ms

Loss rate: 0.00%

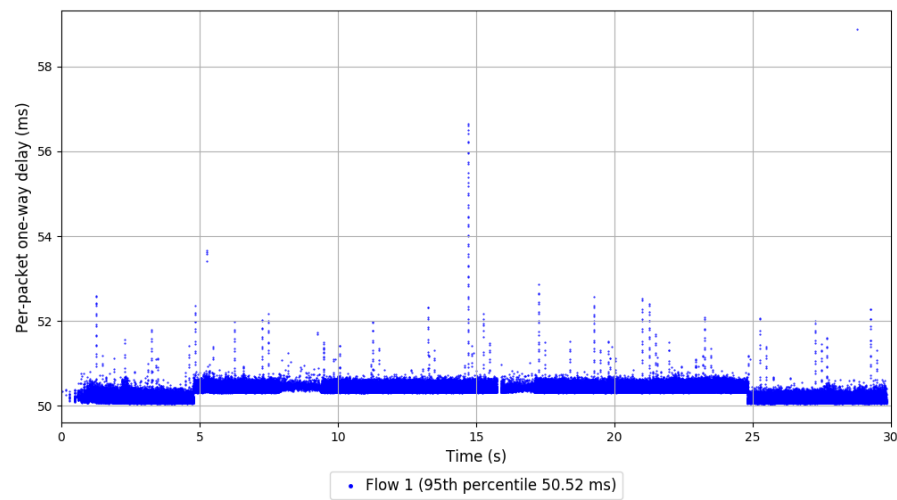
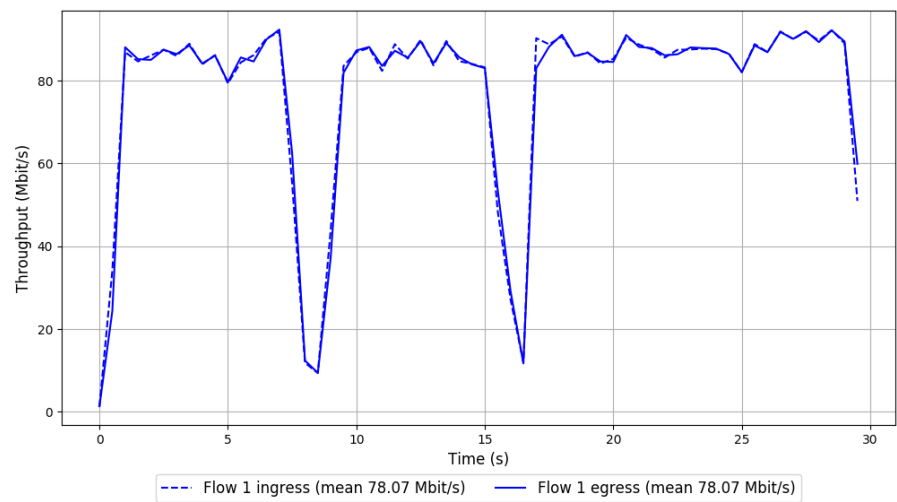
-- Flow 1:

Average throughput: 78.07 Mbit/s

95th percentile per-packet one-way delay: 50.522 ms

Loss rate: 0.00%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2017-11-21 04:51:20

End at: 2017-11-21 04:51:50

Below is generated by plot.py at 2017-11-21 07:17:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 47.35 Mbit/s

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

Loss rate: 0.00%

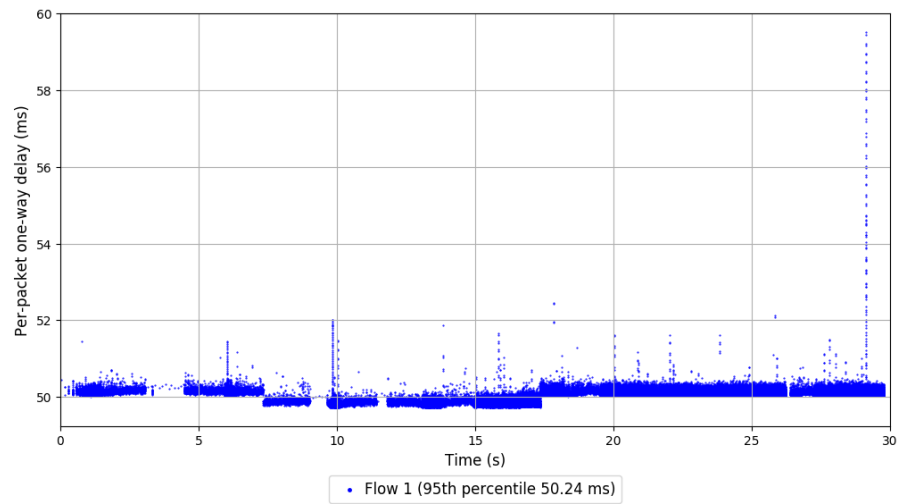
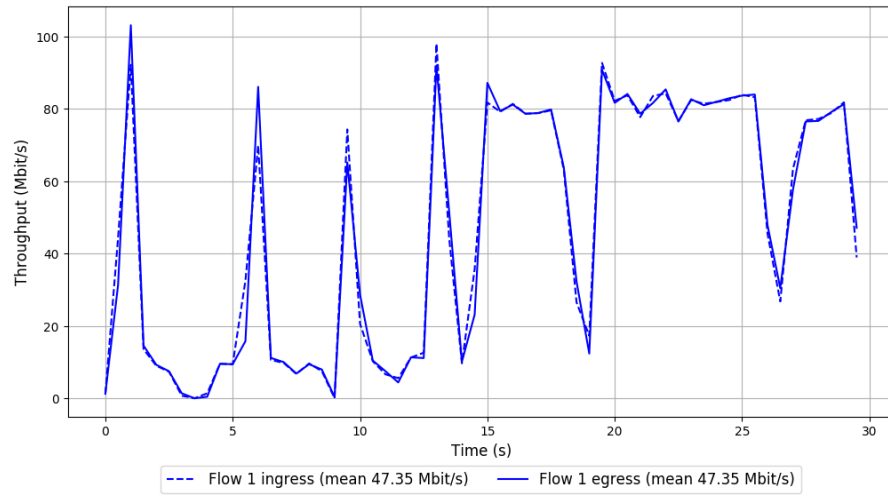
-- Flow 1:

Average throughput: 47.35 Mbit/s

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

Loss rate: 0.00%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2017-11-21 05:01:40

End at: 2017-11-21 05:02:10

Below is generated by plot.py at 2017-11-21 07:17:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 58.68 Mbit/s

95th percentile per-packet one-way delay: 53.536 ms

Loss rate: 0.00%

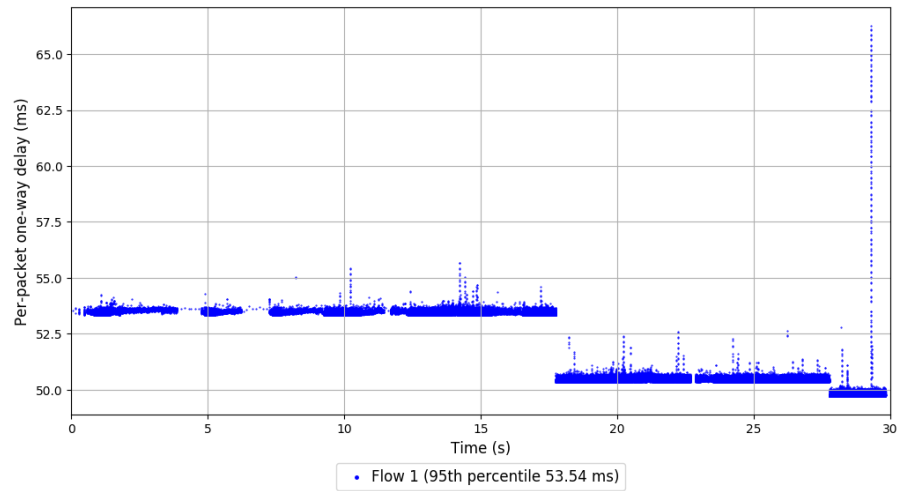
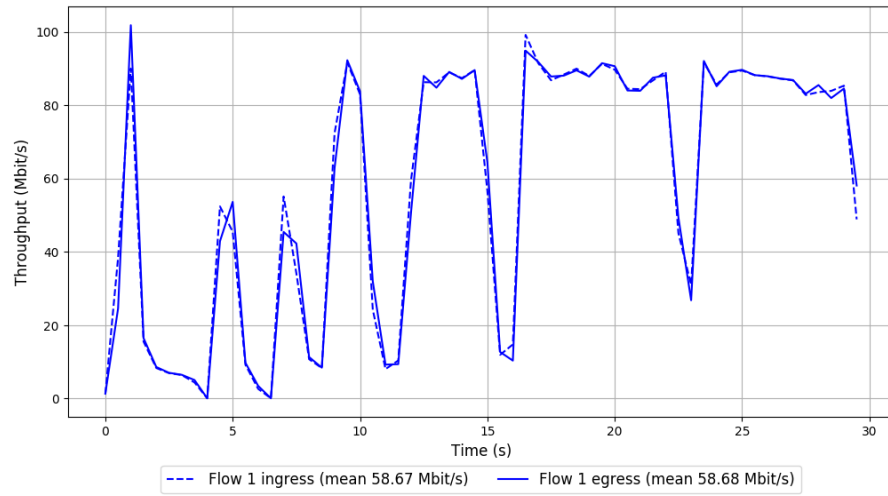
-- Flow 1:

Average throughput: 58.68 Mbit/s

95th percentile per-packet one-way delay: 53.536 ms

Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2017-11-21 05:11:56

End at: 2017-11-21 05:12:26

Below is generated by plot.py at 2017-11-21 07:17:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.12 Mbit/s

95th percentile per-packet one-way delay: 50.332 ms

Loss rate: 0.00%

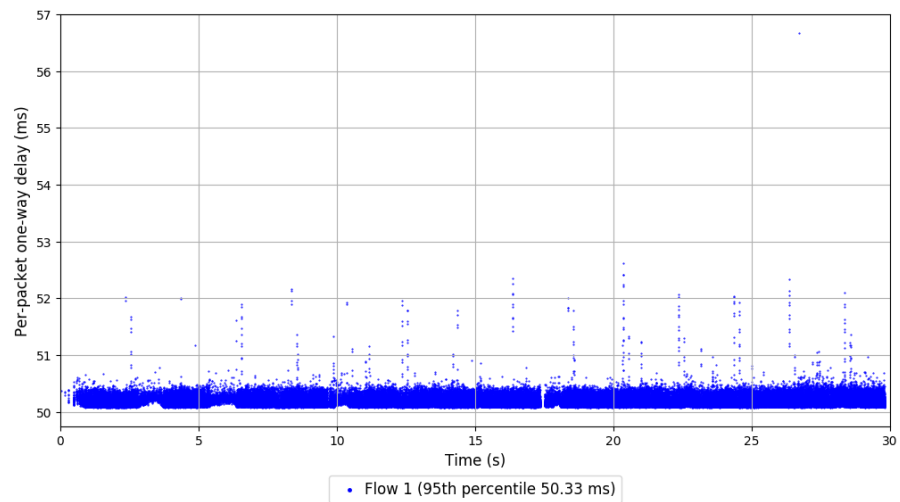
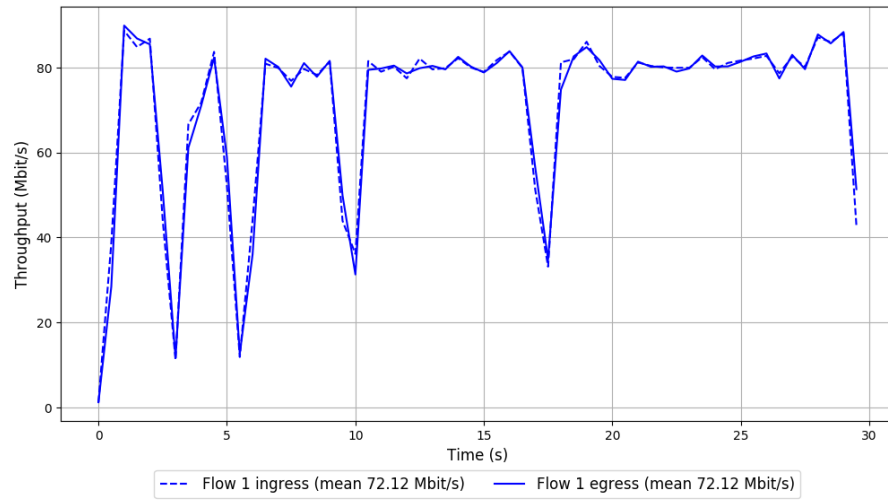
-- Flow 1:

Average throughput: 72.12 Mbit/s

95th percentile per-packet one-way delay: 50.332 ms

Loss rate: 0.00%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2017-11-21 05:22:11

End at: 2017-11-21 05:22:41

Below is generated by plot.py at 2017-11-21 07:17:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 53.48 Mbit/s

95th percentile per-packet one-way delay: 53.253 ms

Loss rate: 0.01%

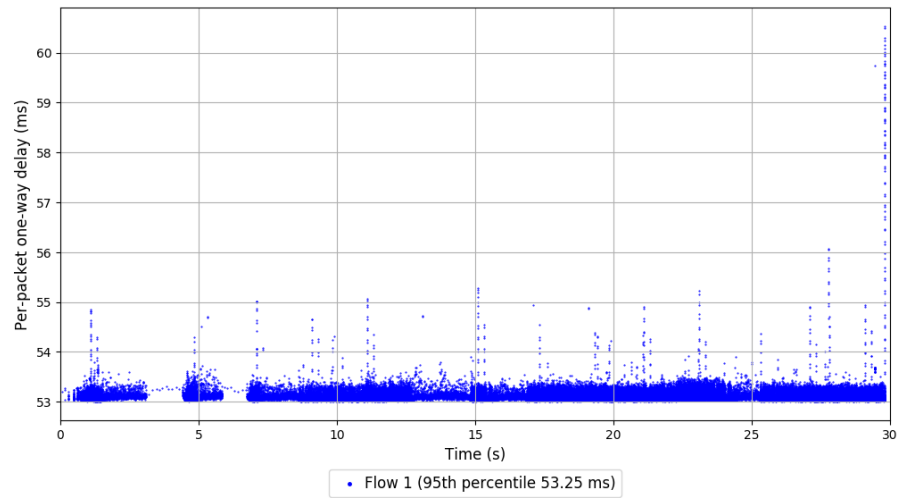
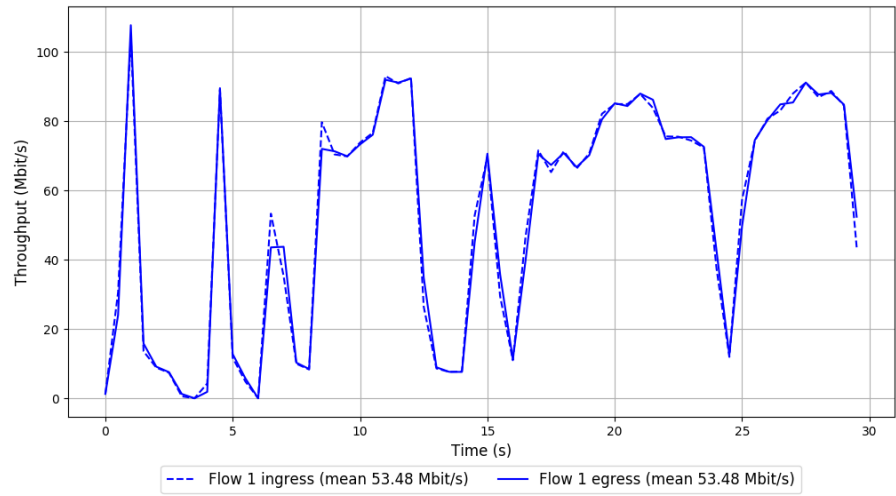
-- Flow 1:

Average throughput: 53.48 Mbit/s

95th percentile per-packet one-way delay: 53.253 ms

Loss rate: 0.01%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2017-11-21 05:32:27

End at: 2017-11-21 05:32:57

Below is generated by plot.py at 2017-11-21 07:17:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.13 Mbit/s

95th percentile per-packet one-way delay: 50.293 ms

Loss rate: 0.00%

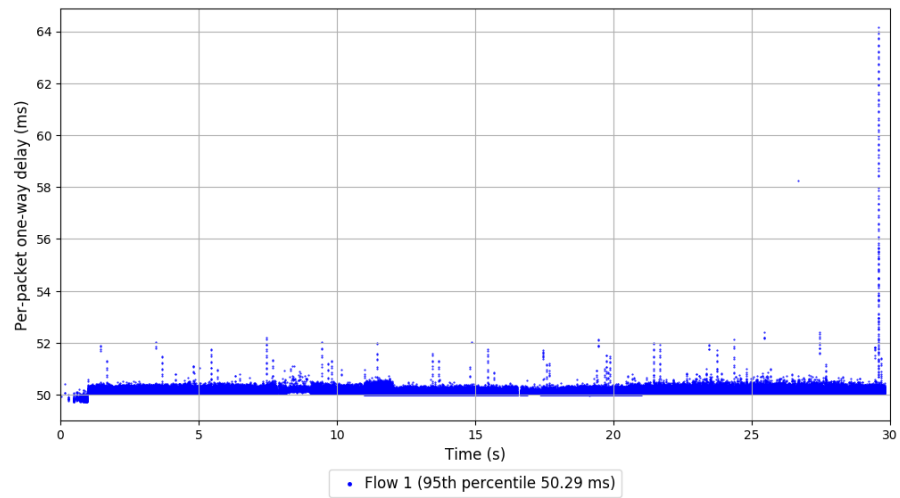
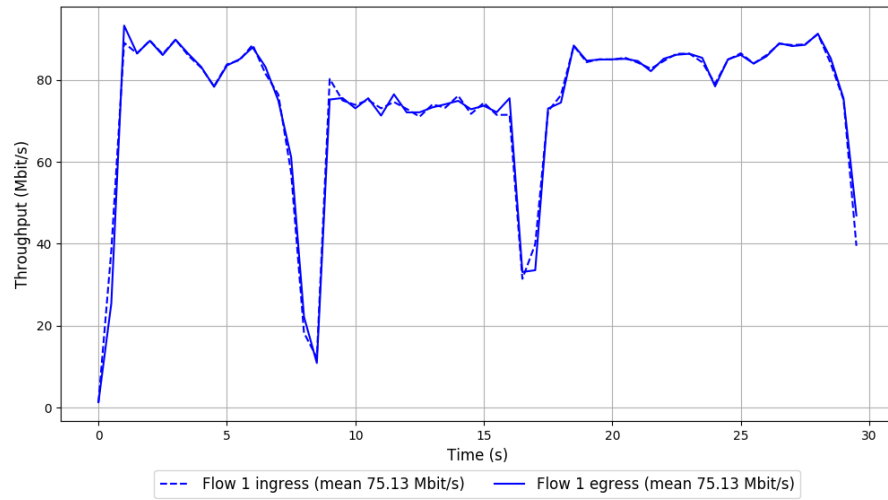
-- Flow 1:

Average throughput: 75.13 Mbit/s

95th percentile per-packet one-way delay: 50.293 ms

Loss rate: 0.00%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2017-11-21 05:43:05

End at: 2017-11-21 05:43:35

Below is generated by plot.py at 2017-11-21 07:17:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 48.99 Mbit/s

95th percentile per-packet one-way delay: 50.340 ms

Loss rate: 0.00%

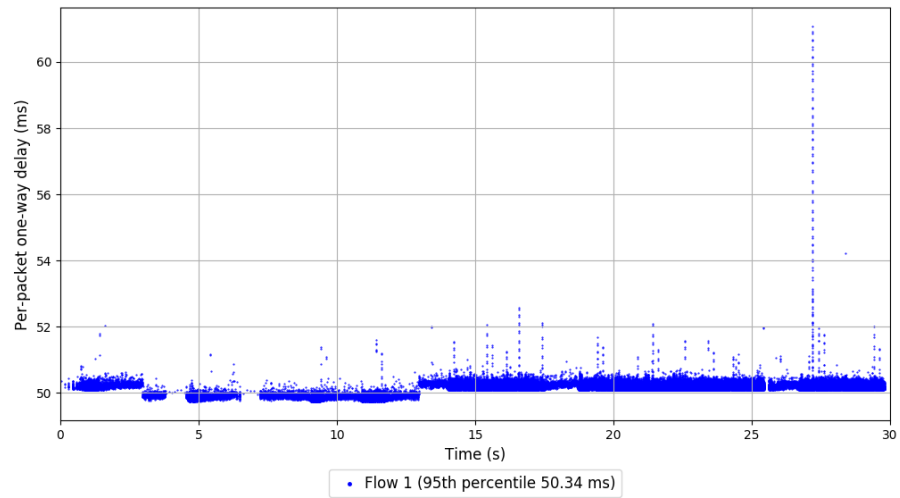
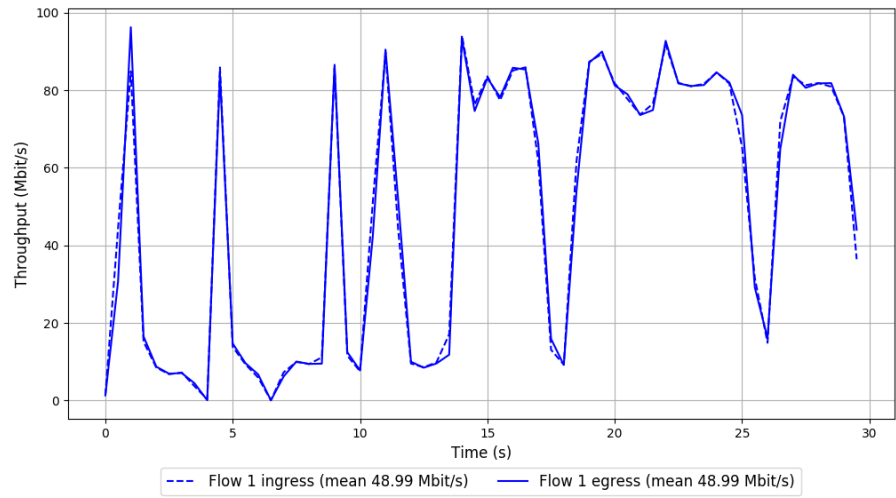
-- Flow 1:

Average throughput: 48.99 Mbit/s

95th percentile per-packet one-way delay: 50.340 ms

Loss rate: 0.00%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2017-11-21 05:53:34

End at: 2017-11-21 05:54:04

Below is generated by plot.py at 2017-11-21 07:17:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 45.64 Mbit/s

95th percentile per-packet one-way delay: 53.070 ms

Loss rate: 0.00%

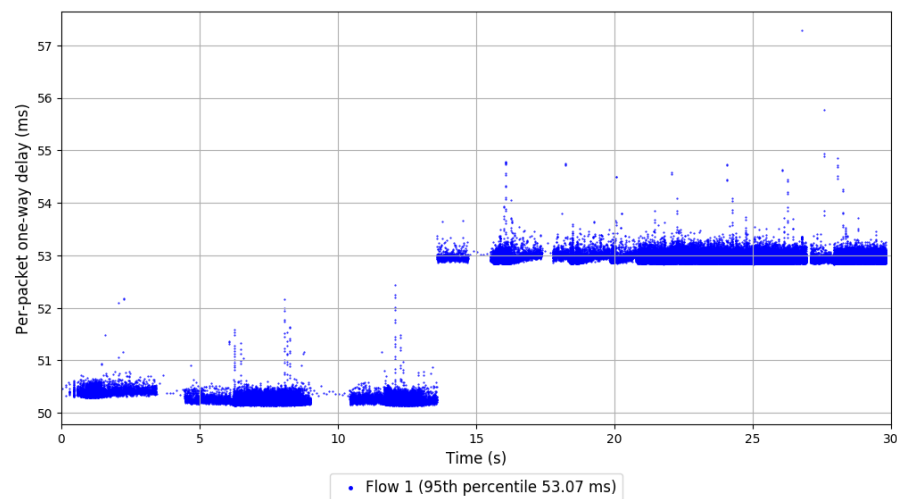
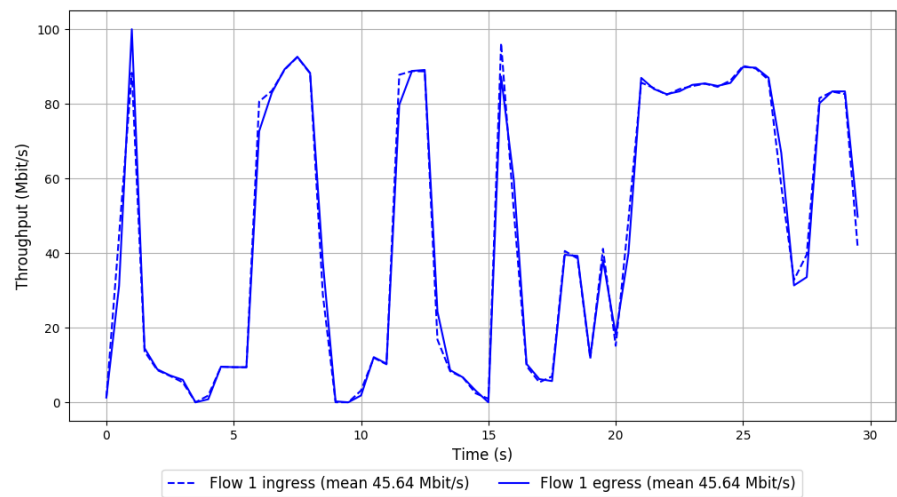
-- Flow 1:

Average throughput: 45.64 Mbit/s

95th percentile per-packet one-way delay: 53.070 ms

Loss rate: 0.00%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2017-11-21 06:03:47

End at: 2017-11-21 06:04:17

Below is generated by plot.py at 2017-11-21 07:17:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 58.01 Mbit/s

95th percentile per-packet one-way delay: 52.973 ms

Loss rate: 0.00%

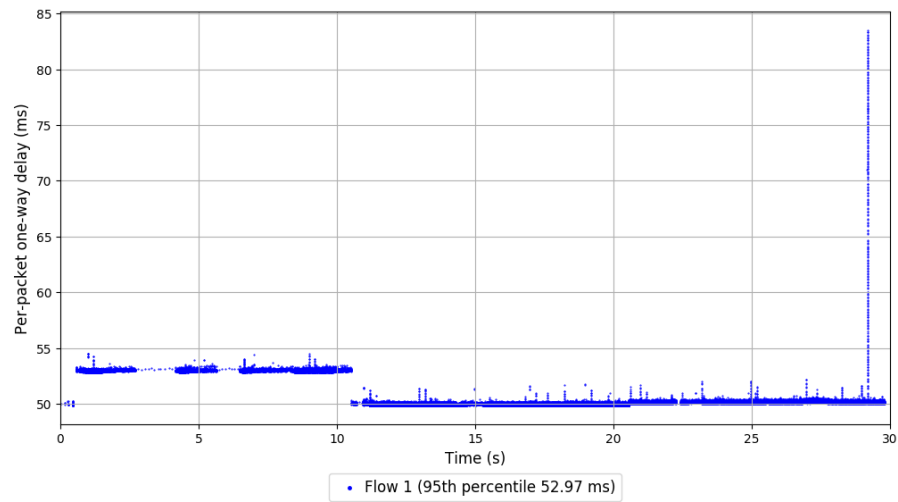
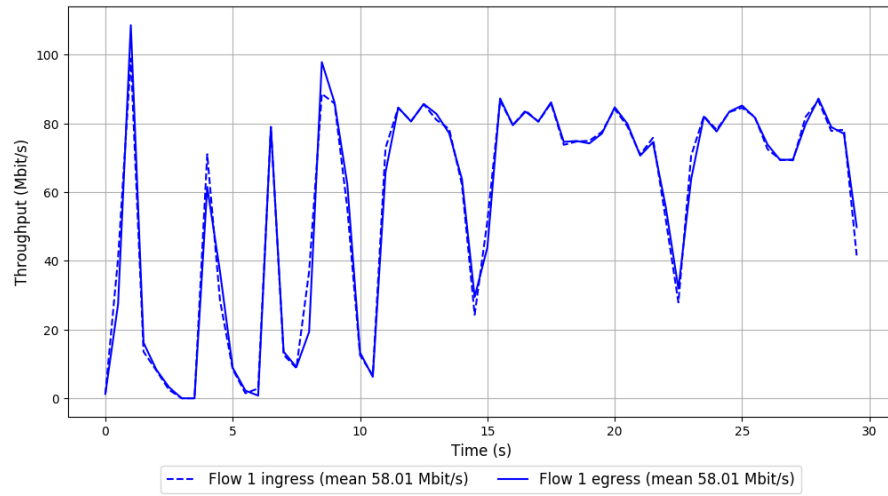
-- Flow 1:

Average throughput: 58.01 Mbit/s

95th percentile per-packet one-way delay: 52.973 ms

Loss rate: 0.00%

Run 10: Report of QUIC Cubic — Data Link

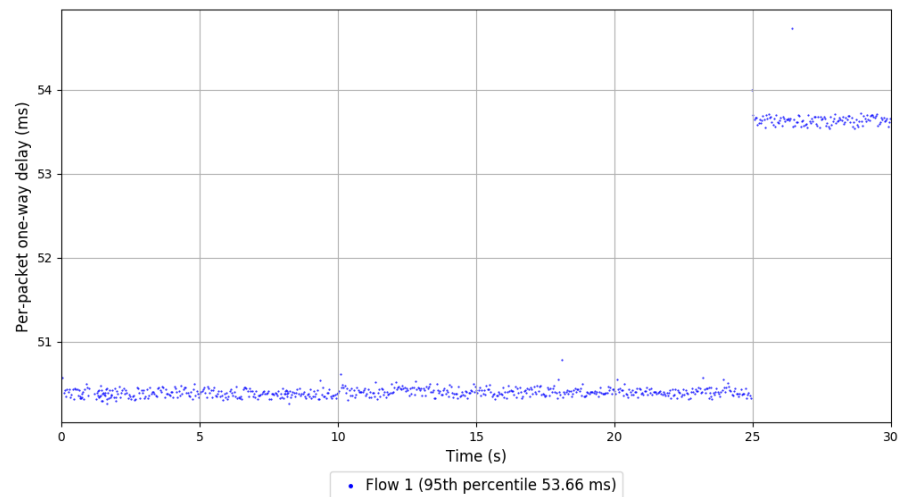
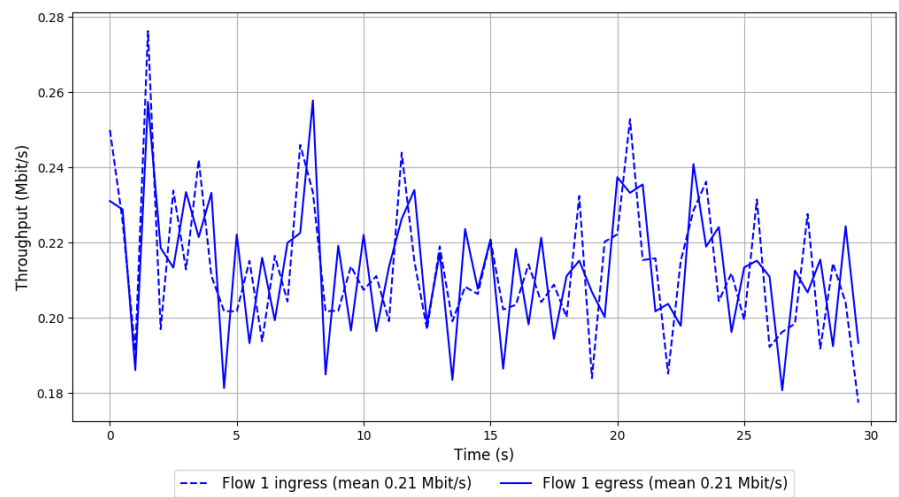


```
Run 1: Statistics of SCReAM

Start at: 2017-11-21 04:24:03
End at: 2017-11-21 04:24:33

# Below is generated by plot.py at 2017-11-21 07:17:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.663 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.663 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

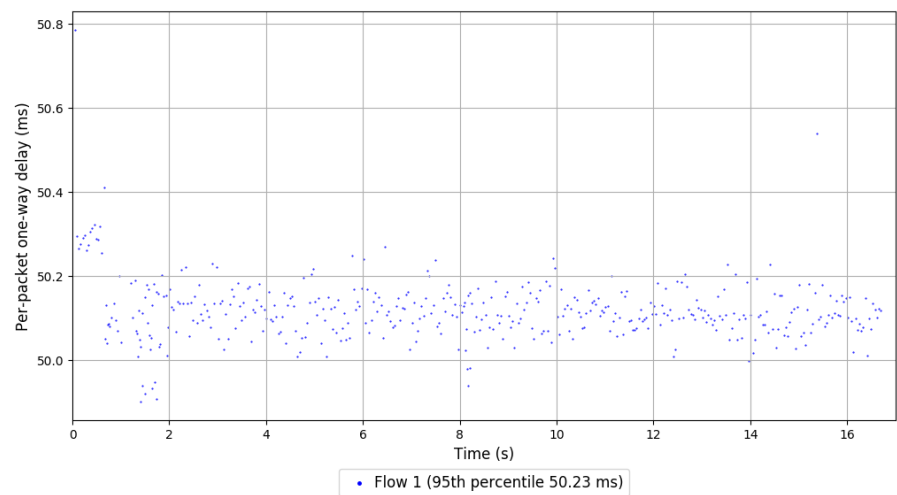
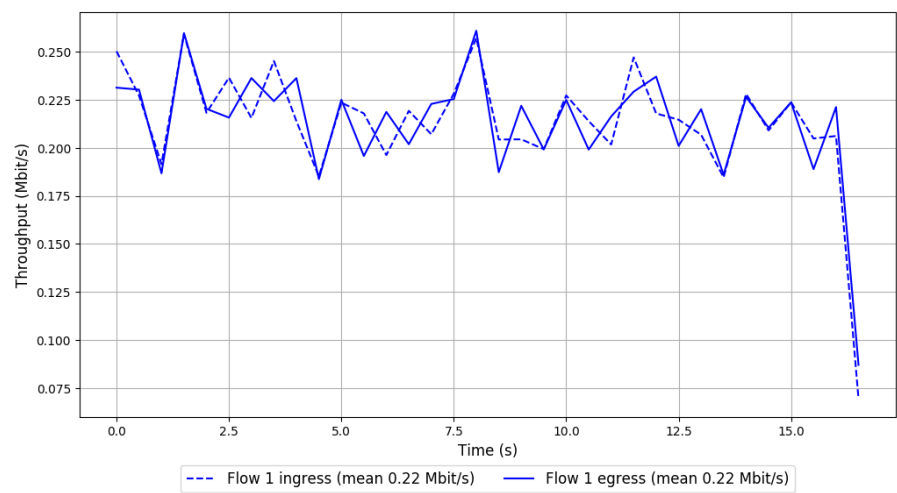


Run 2: Statistics of SReAM

Start at: 2017-11-21 04:34:14

End at: 2017-11-21 04:34:44

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2017-11-21 04:44:48

End at: 2017-11-21 04:45:18

Below is generated by plot.py at 2017-11-21 07:17:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.289 ms

Loss rate: 0.00%

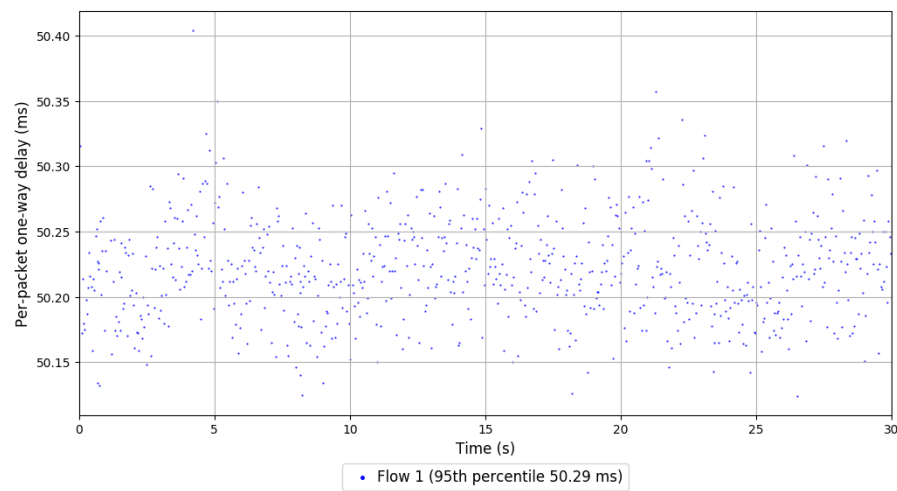
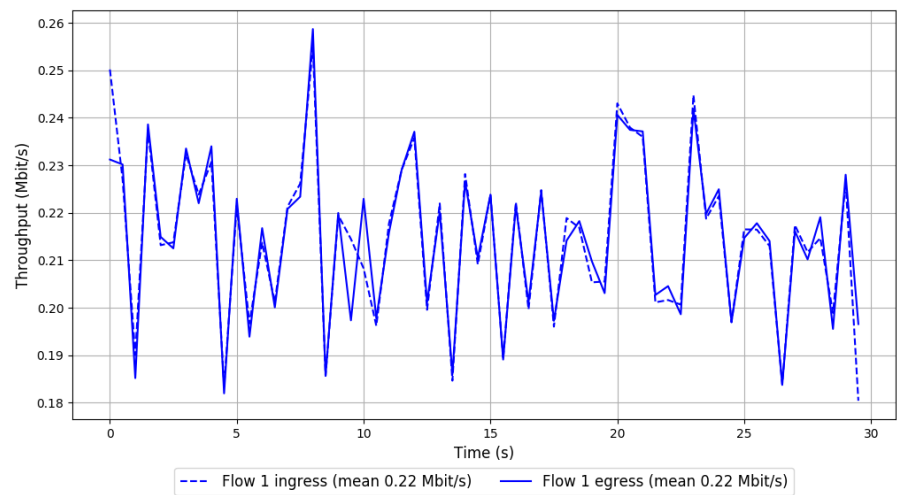
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.289 ms

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2017-11-21 04:55:15

End at: 2017-11-21 04:55:46

Below is generated by plot.py at 2017-11-21 07:17:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 53.709 ms

Loss rate: 0.00%

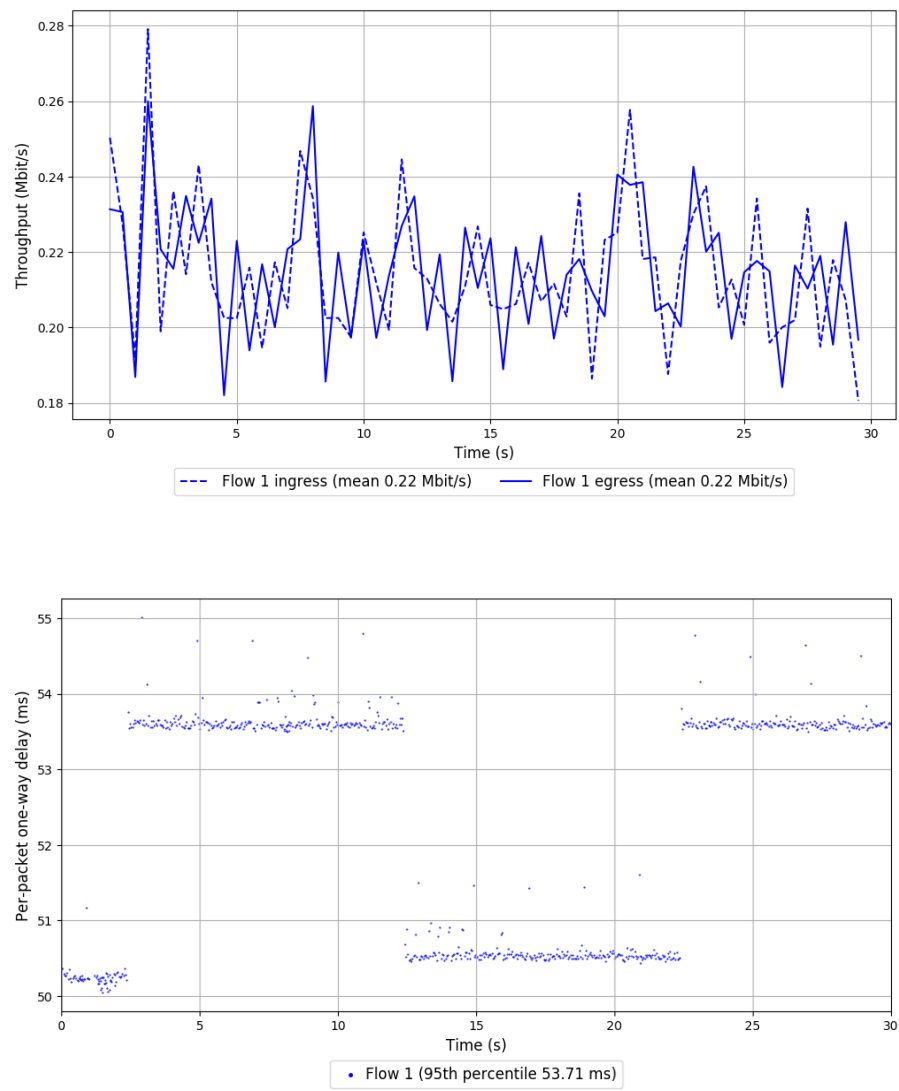
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 53.709 ms

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2017-11-21 05:05:34

End at: 2017-11-21 05:06:04

Below is generated by plot.py at 2017-11-21 07:17:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.364 ms

Loss rate: 0.00%

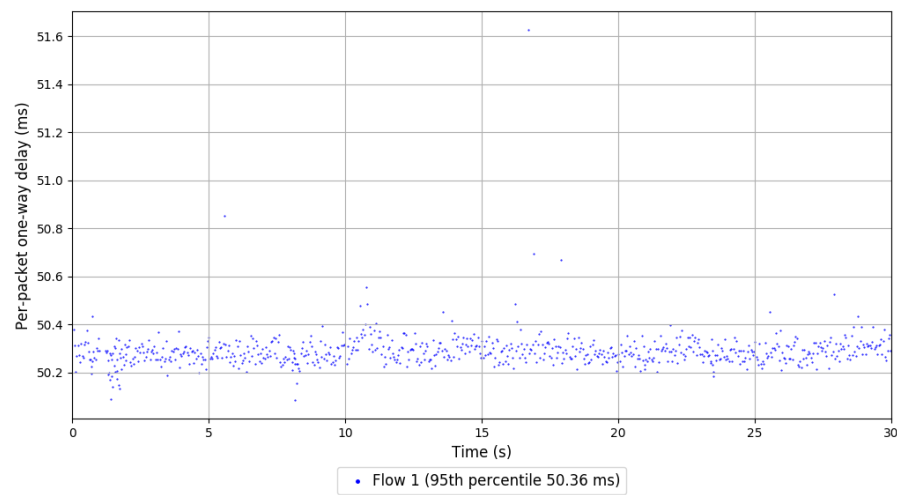
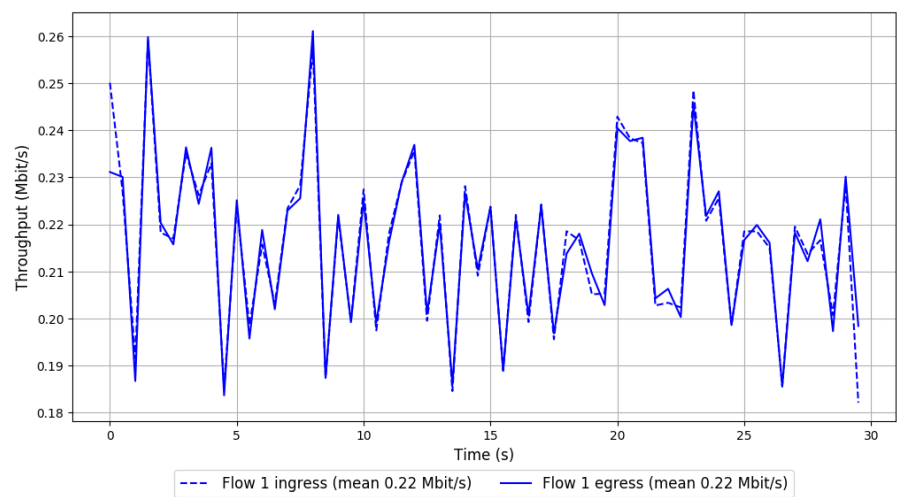
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.364 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2017-11-21 05:15:49

End at: 2017-11-21 05:16:19

Below is generated by plot.py at 2017-11-21 07:17:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.279 ms

Loss rate: 0.00%

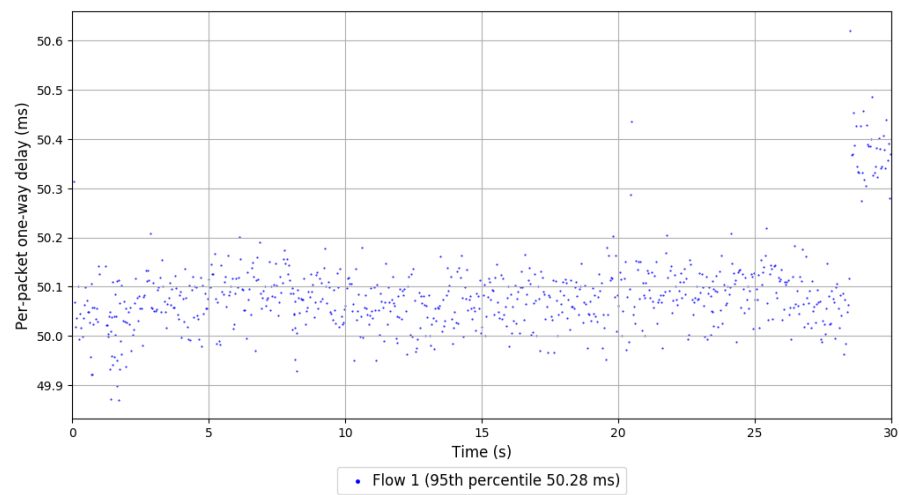
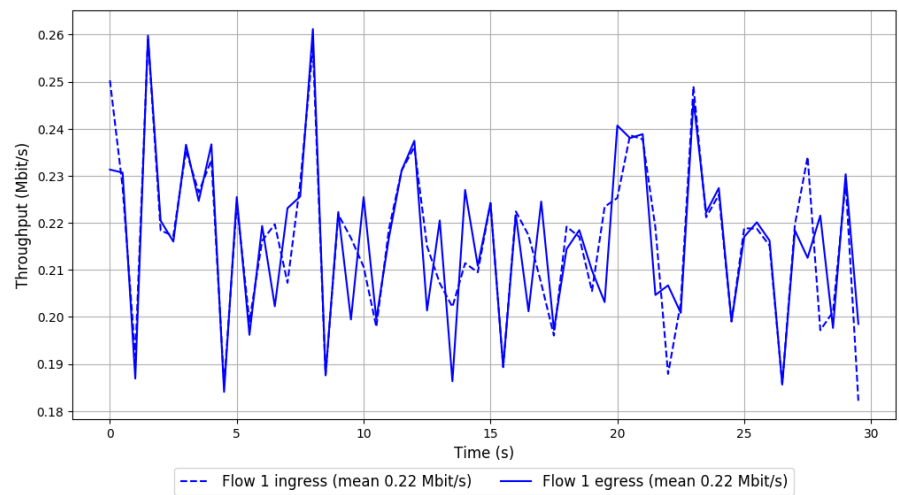
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.279 ms

Loss rate: 0.00%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2017-11-21 05:26:05

End at: 2017-11-21 05:26:35

Below is generated by plot.py at 2017-11-21 07:17:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.356 ms

Loss rate: 0.00%

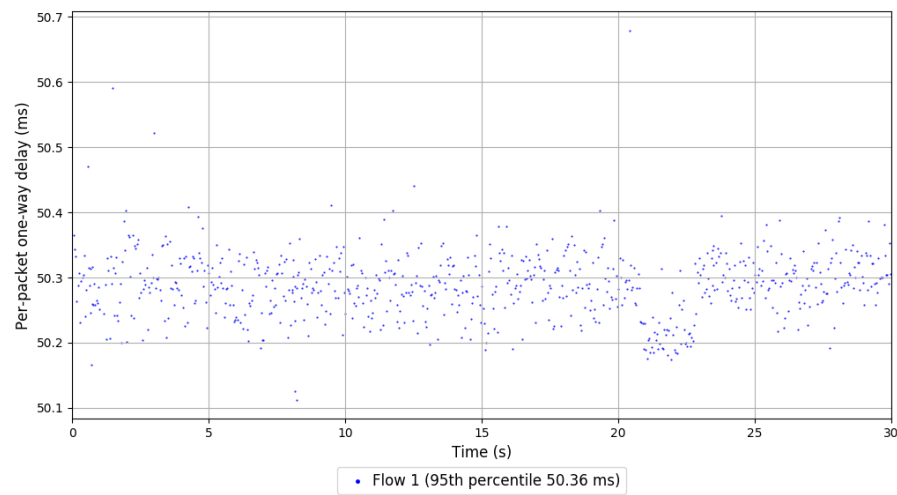
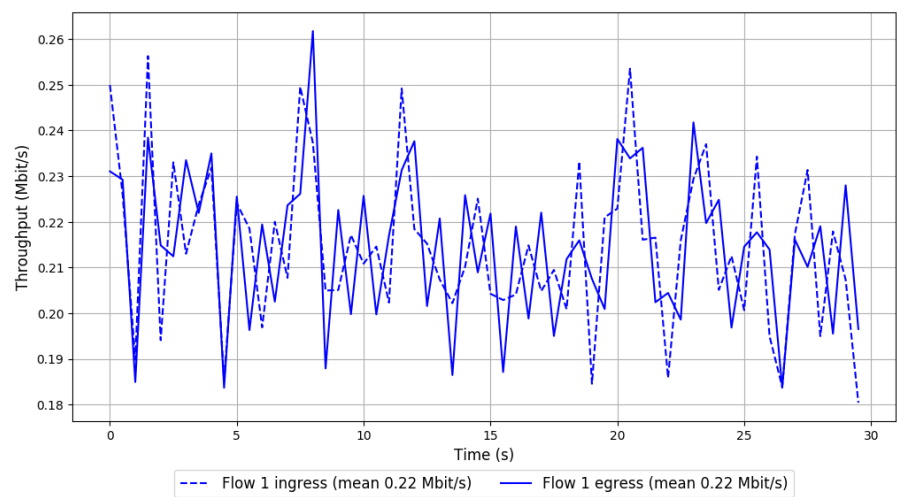
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.356 ms

Loss rate: 0.00%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2017-11-21 05:36:20

End at: 2017-11-21 05:36:50

Below is generated by plot.py at 2017-11-21 07:17:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.416 ms

Loss rate: 0.00%

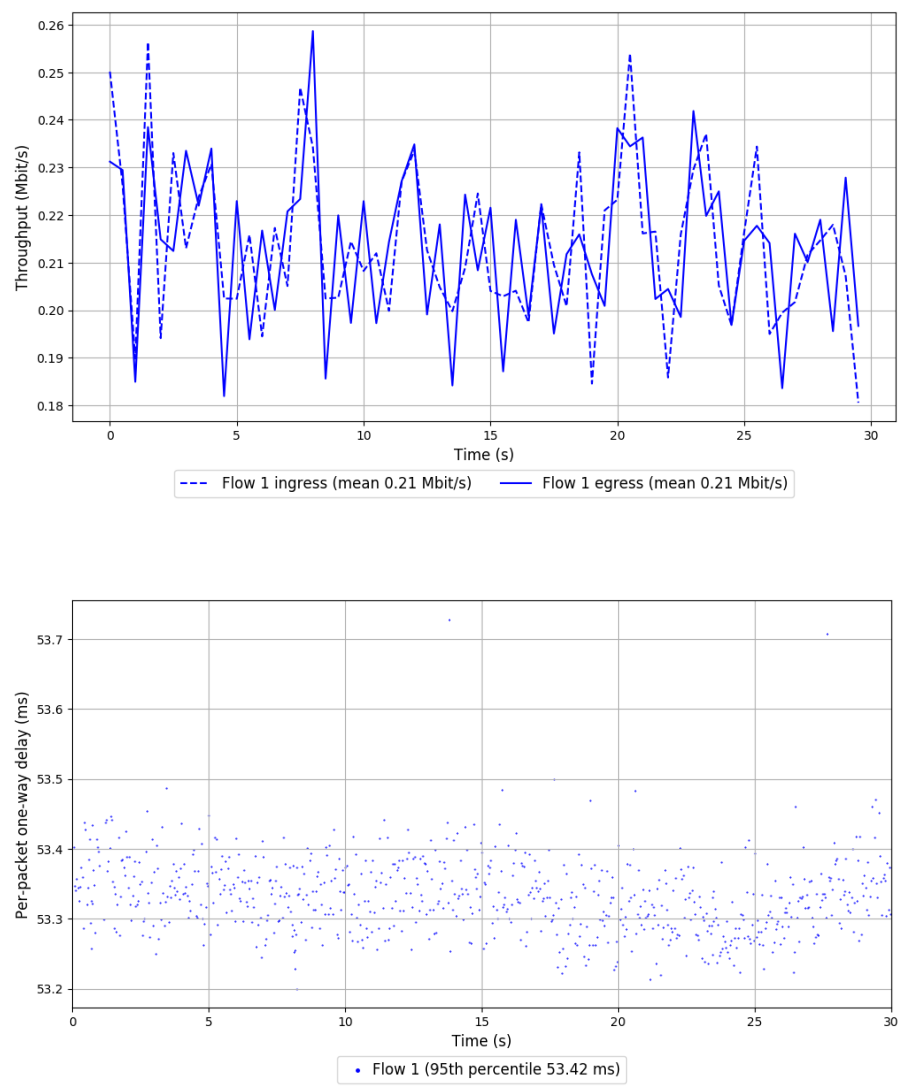
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.416 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2017-11-21 05:46:55

End at: 2017-11-21 05:47:25

Below is generated by plot.py at 2017-11-21 07:17:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 50.430 ms

Loss rate: 0.00%

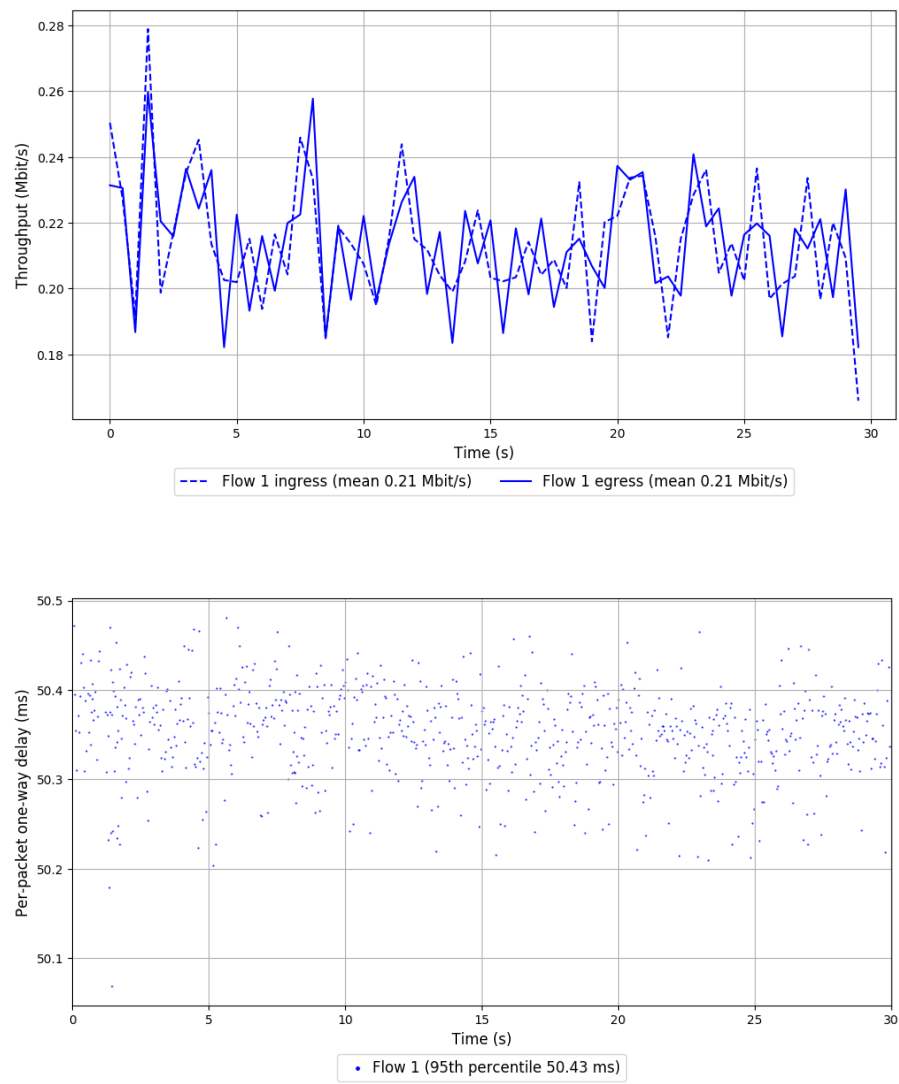
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 50.430 ms

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2017-11-21 05:57:29

End at: 2017-11-21 05:57:59

Below is generated by plot.py at 2017-11-21 07:17:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.16 Mbit/s

95th percentile per-packet one-way delay: 50.479 ms

Loss rate: 0.00%

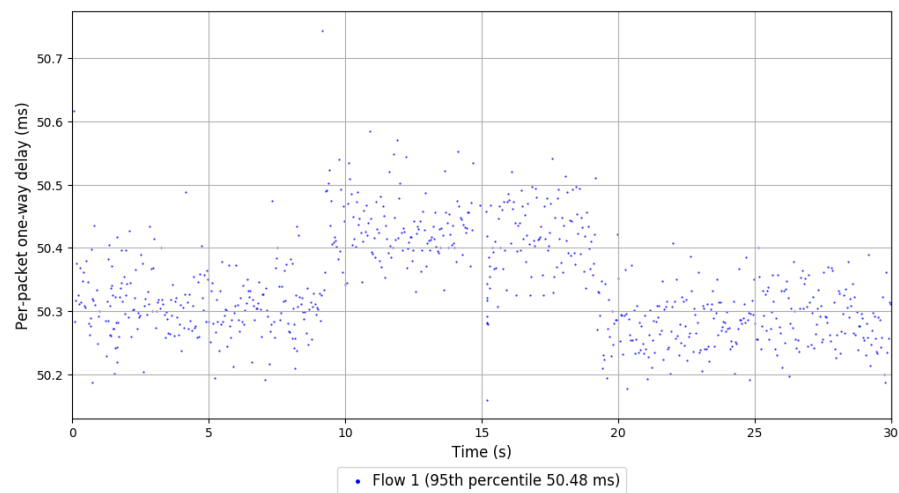
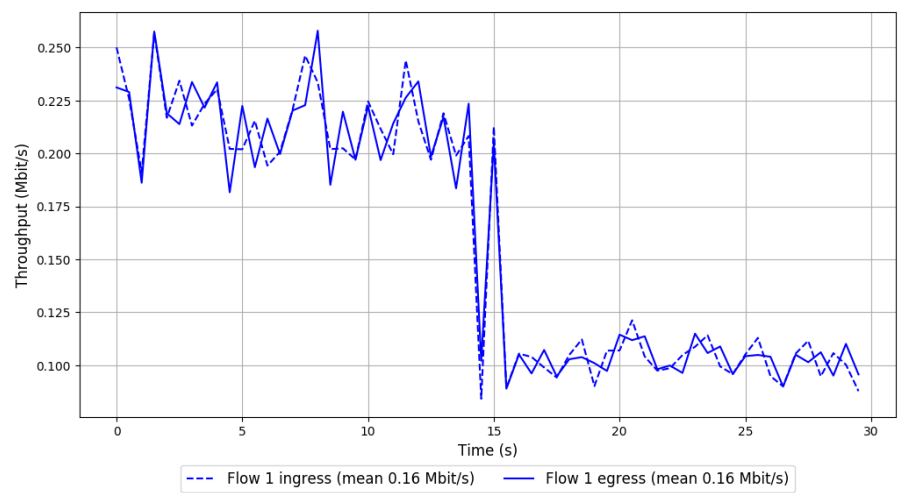
-- Flow 1:

Average throughput: 0.16 Mbit/s

95th percentile per-packet one-way delay: 50.479 ms

Loss rate: 0.00%

Run 10: Report of SCReAM — Data Link

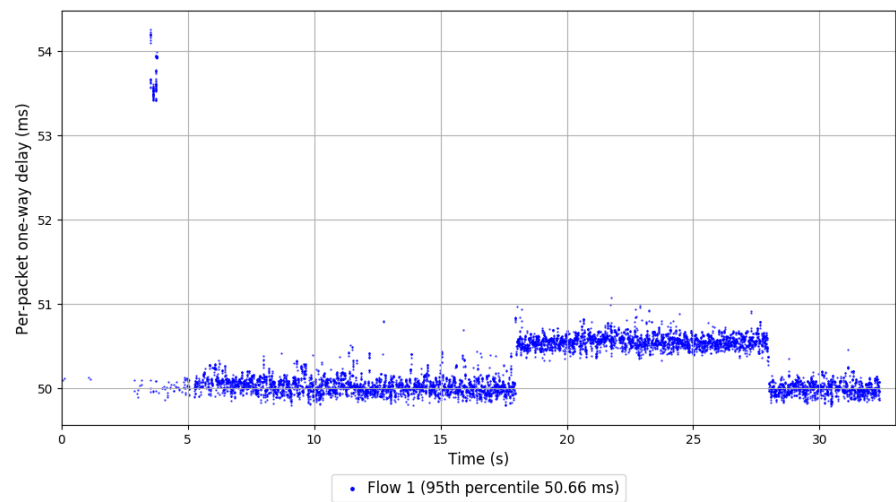
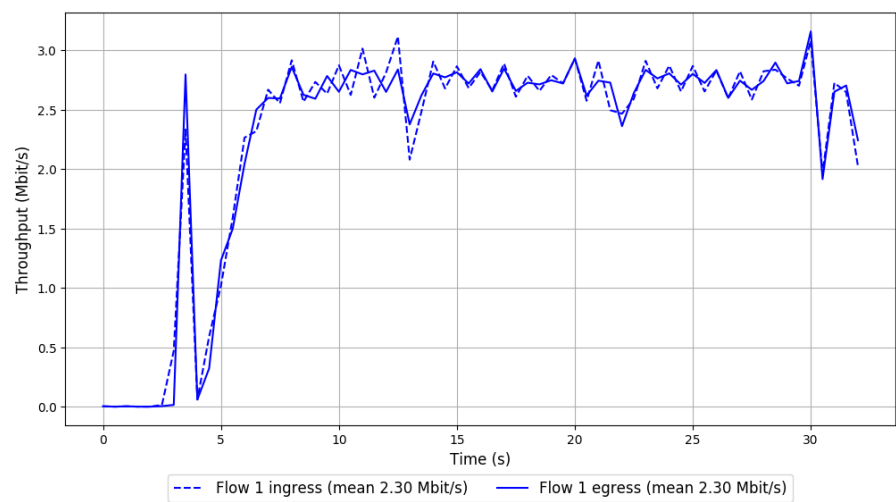


```
Run 1: Statistics of WebRTC media

Start at: 2017-11-21 04:26:42
End at: 2017-11-21 04:27:12

# Below is generated by plot.py at 2017-11-21 07:17:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.30 Mbit/s
95th percentile per-packet one-way delay: 50.658 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.30 Mbit/s
95th percentile per-packet one-way delay: 50.658 ms
Loss rate: 0.00%
```


Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2017-11-21 04:36:56

End at: 2017-11-21 04:37:26

Below is generated by plot.py at 2017-11-21 07:17:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 53.420 ms

Loss rate: 0.00%

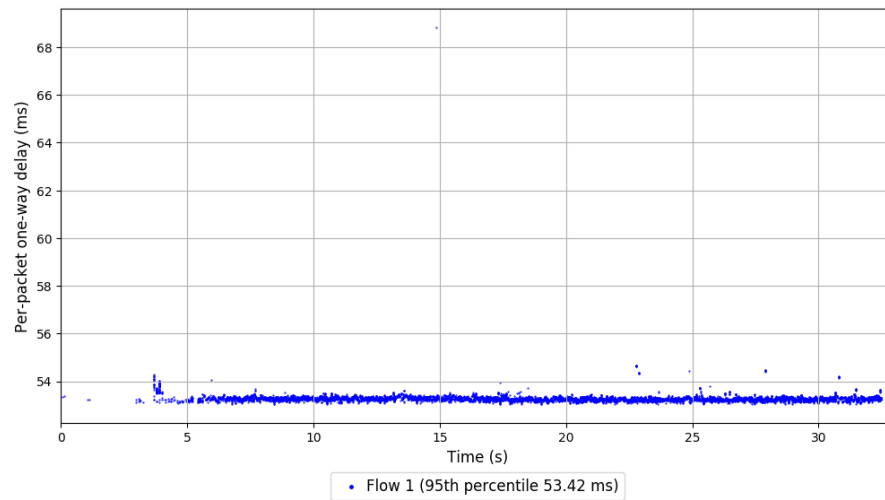
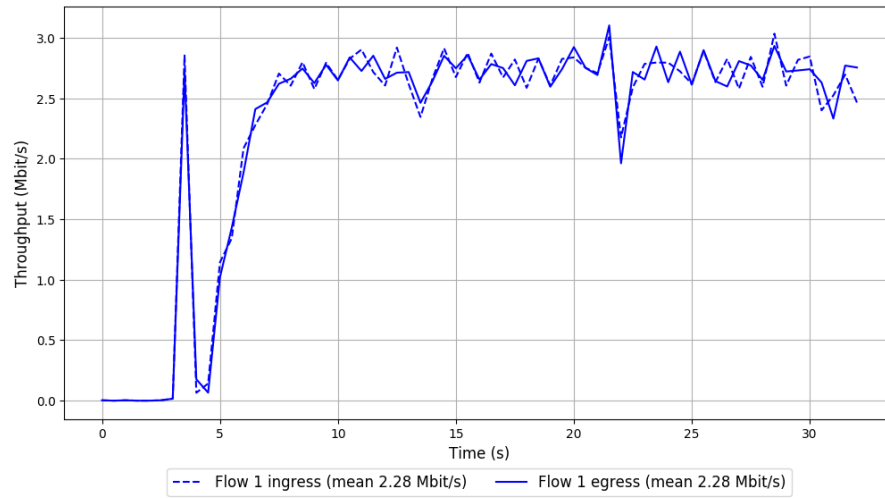
-- Flow 1:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 53.420 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2017-11-21 04:47:31

End at: 2017-11-21 04:48:01

Below is generated by plot.py at 2017-11-21 07:17:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 53.743 ms

Loss rate: 0.00%

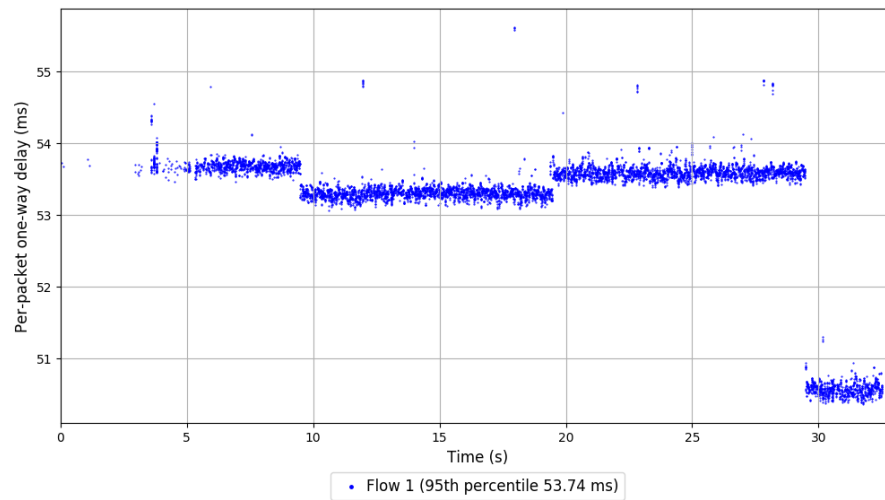
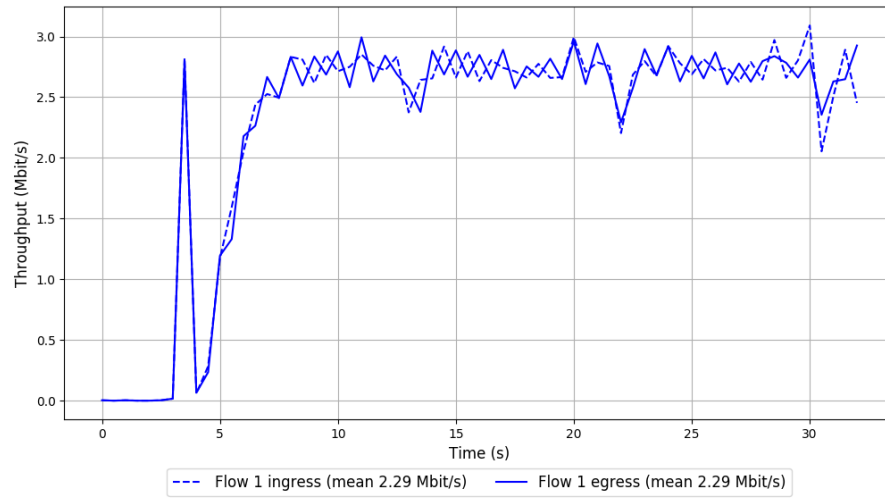
-- Flow 1:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 53.743 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2017-11-21 04:57:57

End at: 2017-11-21 04:58:27

Below is generated by plot.py at 2017-11-21 07:17:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 53.195 ms

Loss rate: 0.00%

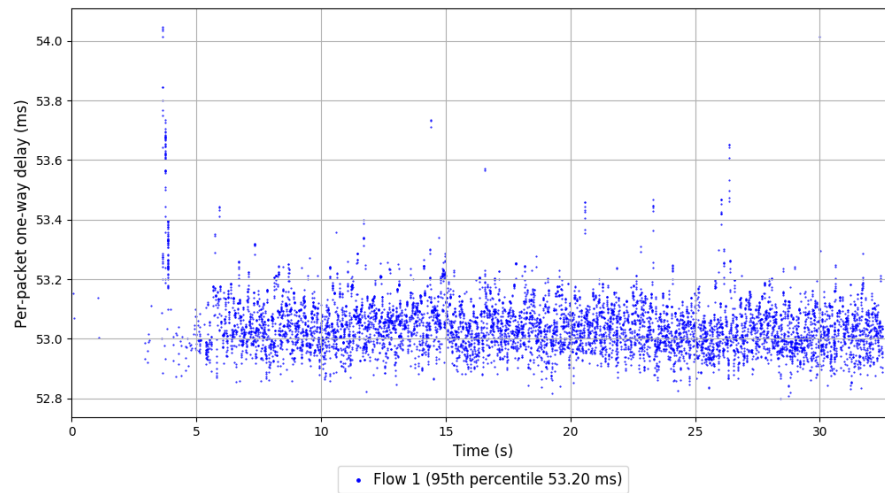
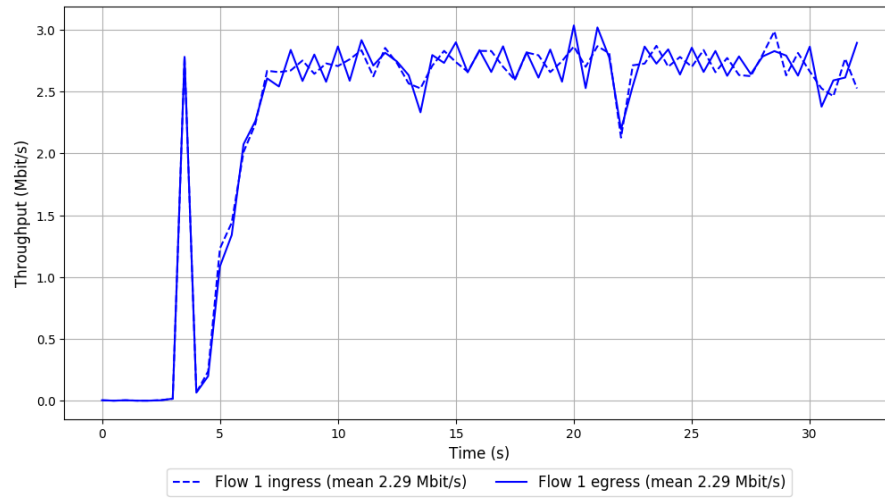
-- Flow 1:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 53.195 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2017-11-21 05:08:15

End at: 2017-11-21 05:08:45

Below is generated by plot.py at 2017-11-21 07:17:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.28 Mbit/s

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

Loss rate: 0.00%

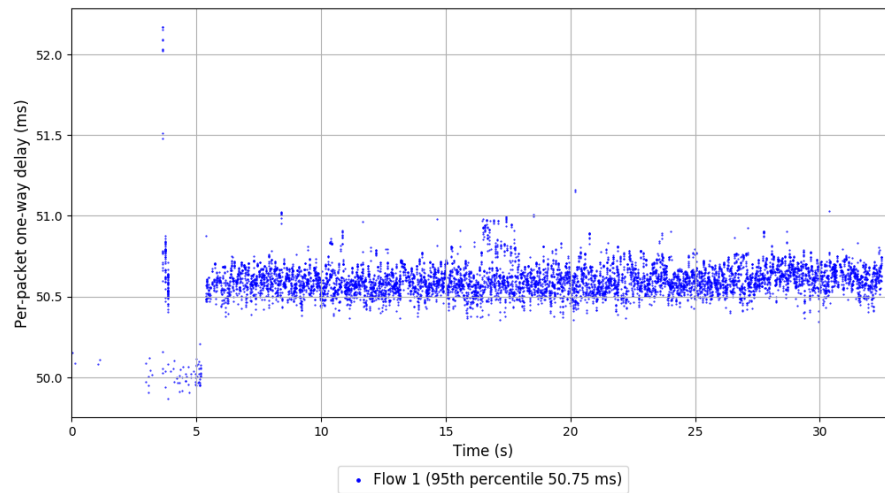
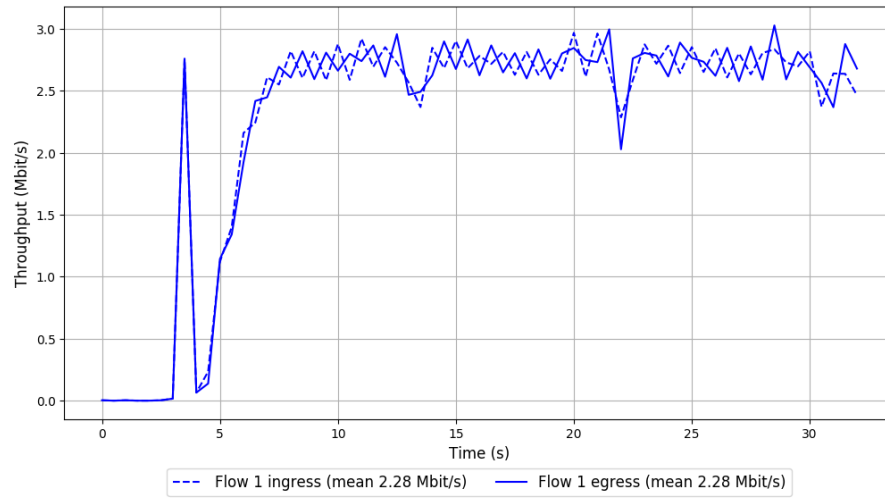
-- Flow 1:

Average throughput: 2.28 Mbit/s

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

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2017-11-21 05:18:31

End at: 2017-11-21 05:19:01

Below is generated by plot.py at 2017-11-21 07:17:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.29 Mbit/s

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

Loss rate: 0.00%

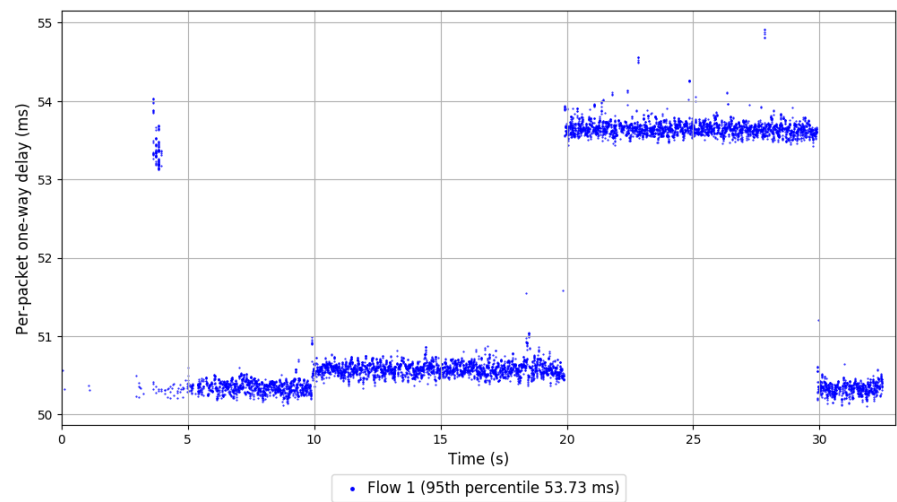
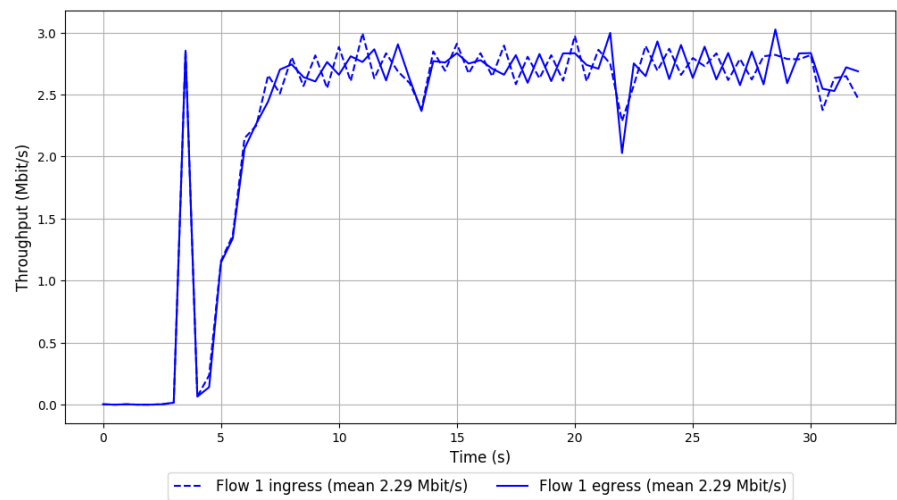
-- Flow 1:

Average throughput: 2.29 Mbit/s

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

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2017-11-21 05:28:47

End at: 2017-11-21 05:29:17

Below is generated by plot.py at 2017-11-21 07:17:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 50.666 ms

Loss rate: 0.00%

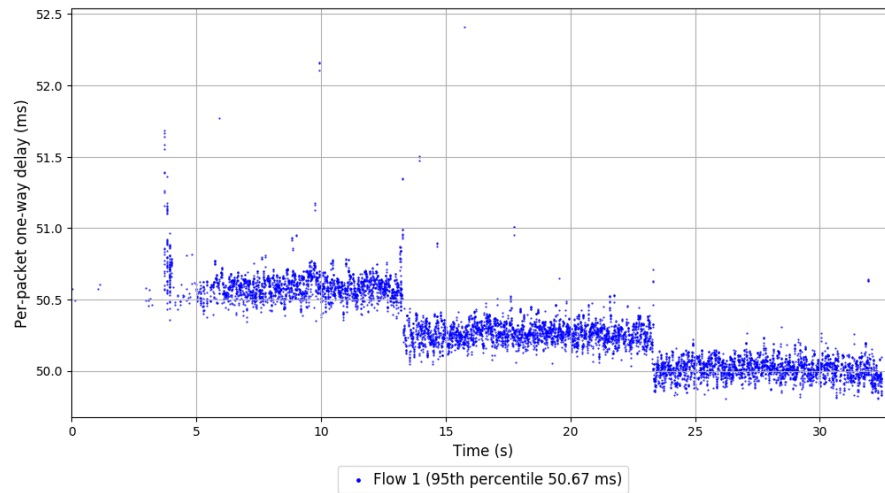
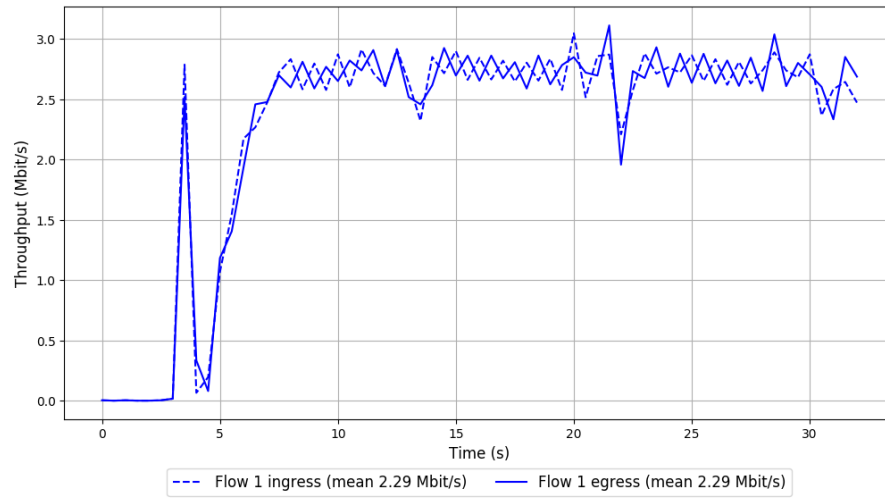
-- Flow 1:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 50.666 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2017-11-21 05:39:04

End at: 2017-11-21 05:39:34

Below is generated by plot.py at 2017-11-21 07:17:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.28 Mbit/s

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

Loss rate: 0.00%

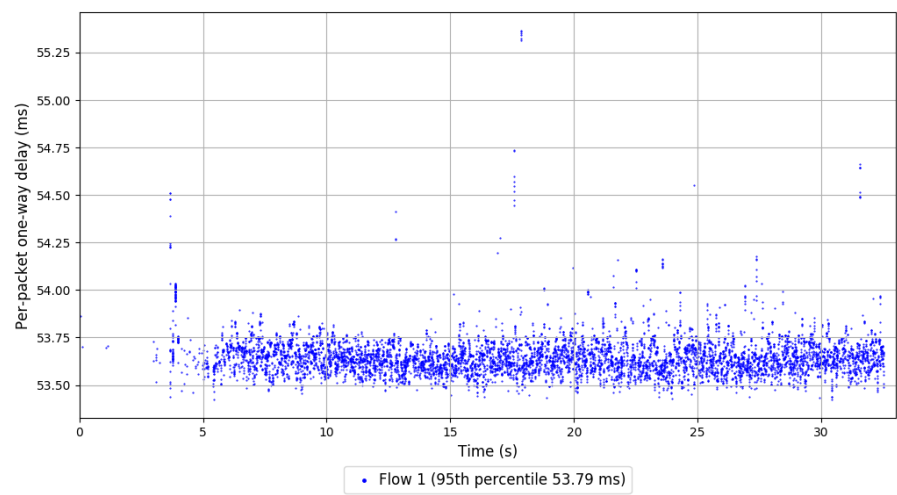
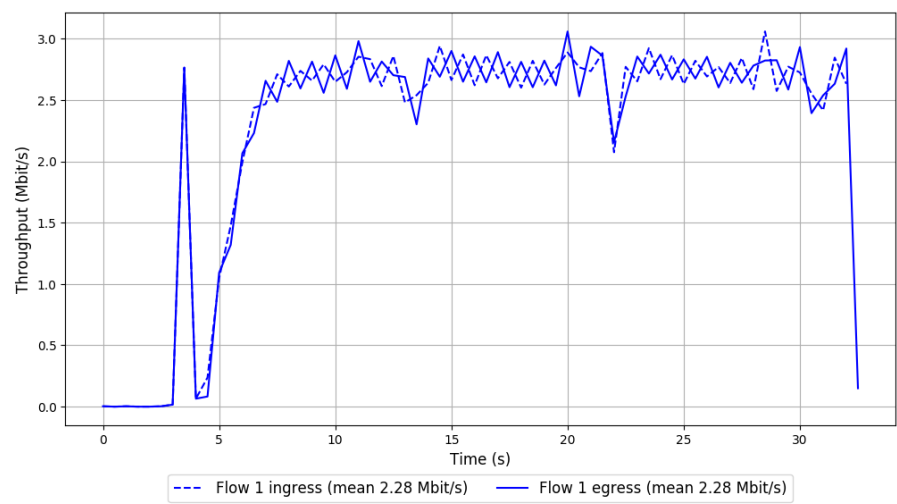
-- Flow 1:

Average throughput: 2.28 Mbit/s

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

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2017-11-21 05:49:36

End at: 2017-11-21 05:50:06

Below is generated by plot.py at 2017-11-21 07:17:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 53.517 ms

Loss rate: 0.00%

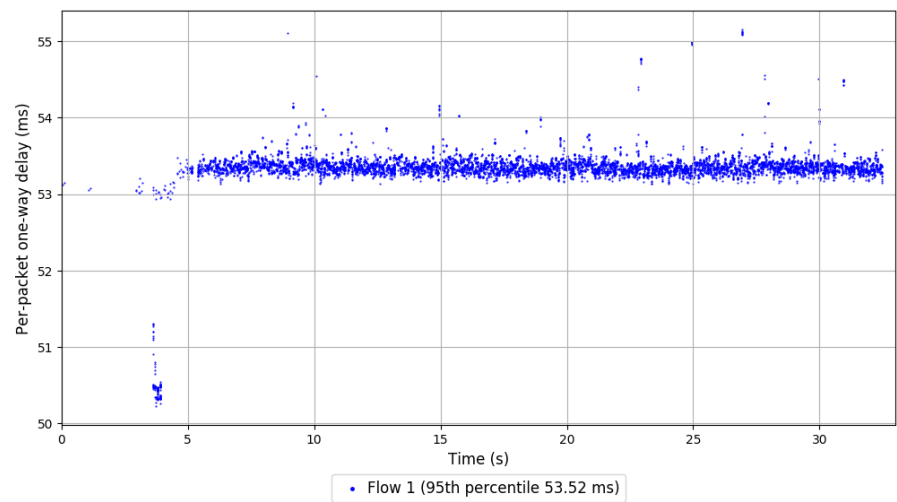
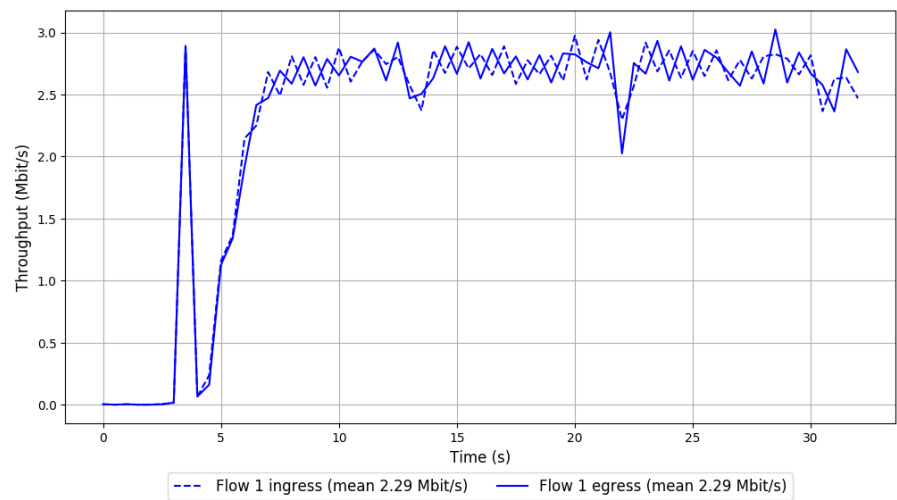
-- Flow 1:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 53.517 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2017-11-21 06:00:10

End at: 2017-11-21 06:00:40

Below is generated by plot.py at 2017-11-21 07:17:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 53.794 ms

Loss rate: 0.00%

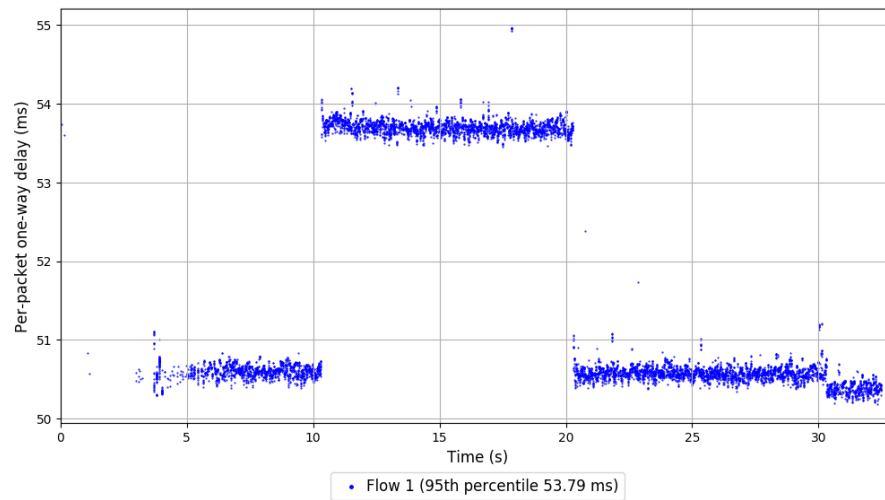
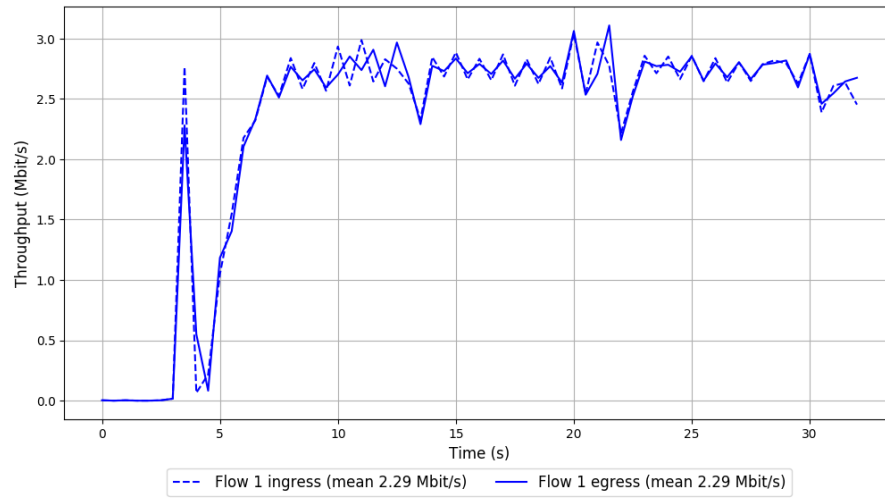
-- Flow 1:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 53.794 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2017-11-21 04:24:40

End at: 2017-11-21 04:25:10

Below is generated by plot.py at 2017-11-21 07:17:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.78 Mbit/s

95th percentile per-packet one-way delay: 51.552 ms

Loss rate: 0.00%

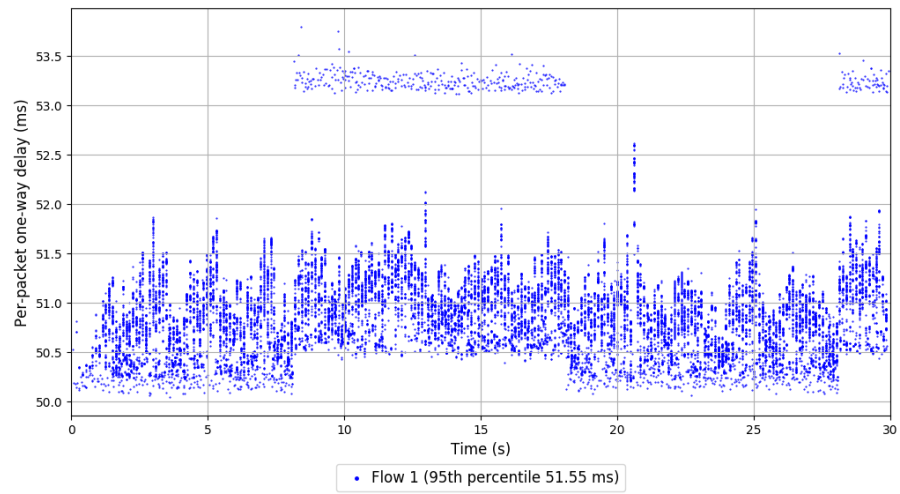
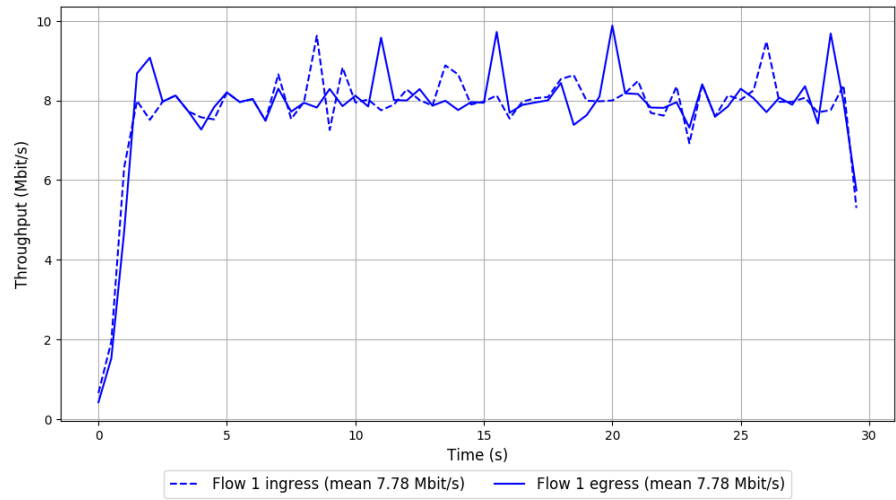
-- Flow 1:

Average throughput: 7.78 Mbit/s

95th percentile per-packet one-way delay: 51.552 ms

Loss rate: 0.00%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2017-11-21 04:34:51

End at: 2017-11-21 04:35:21

Below is generated by plot.py at 2017-11-21 07:17:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.88 Mbit/s

95th percentile per-packet one-way delay: 54.374 ms

Loss rate: 0.01%

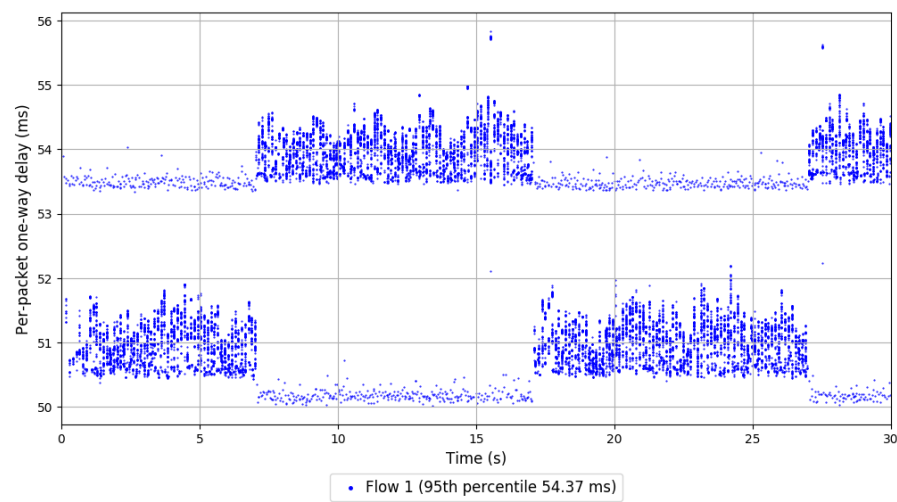
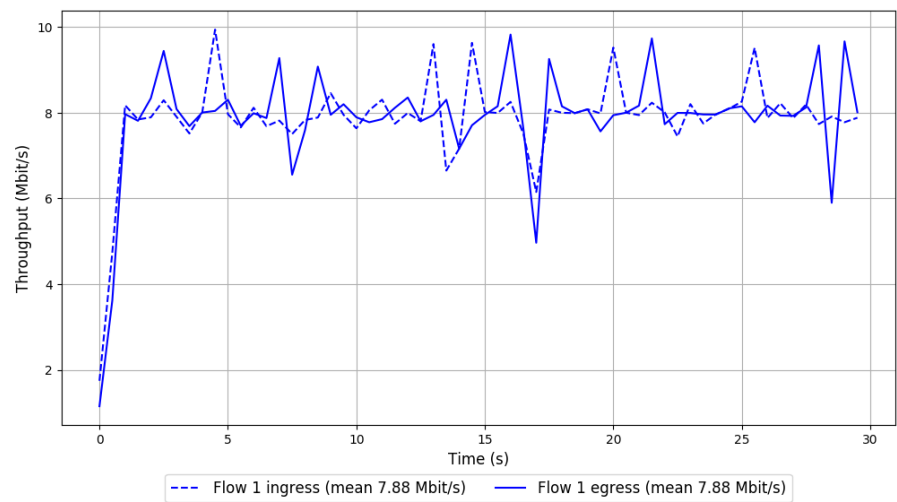
-- Flow 1:

Average throughput: 7.88 Mbit/s

95th percentile per-packet one-way delay: 54.374 ms

Loss rate: 0.01%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2017-11-21 04:45:25

End at: 2017-11-21 04:45:55

Below is generated by plot.py at 2017-11-21 07:17:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.70 Mbit/s

95th percentile per-packet one-way delay: 54.369 ms

Loss rate: 0.02%

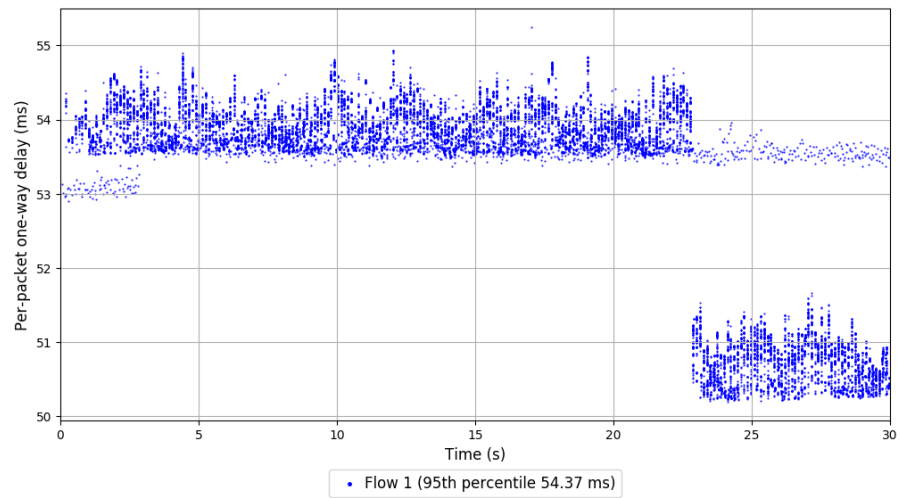
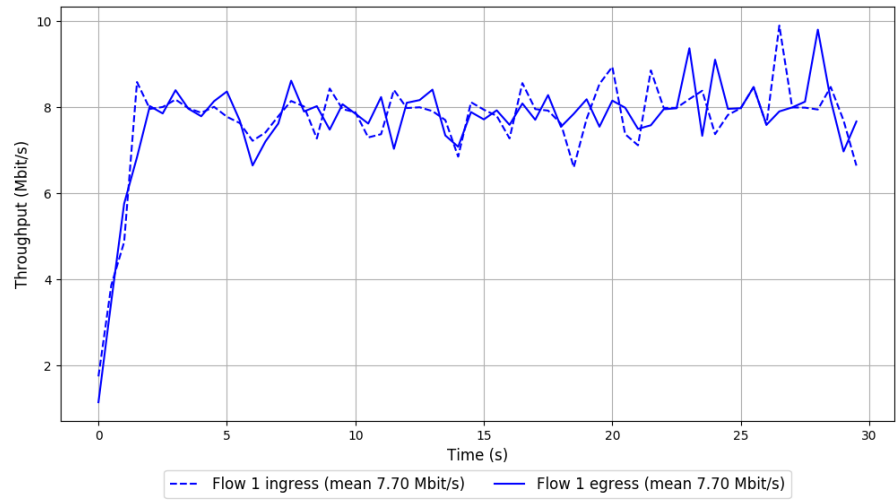
-- Flow 1:

Average throughput: 7.70 Mbit/s

95th percentile per-packet one-way delay: 54.369 ms

Loss rate: 0.02%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2017-11-21 04:55:52

End at: 2017-11-21 04:56:22

Below is generated by plot.py at 2017-11-21 07:17:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.75 Mbit/s

95th percentile per-packet one-way delay: 54.142 ms

Loss rate: 0.08%

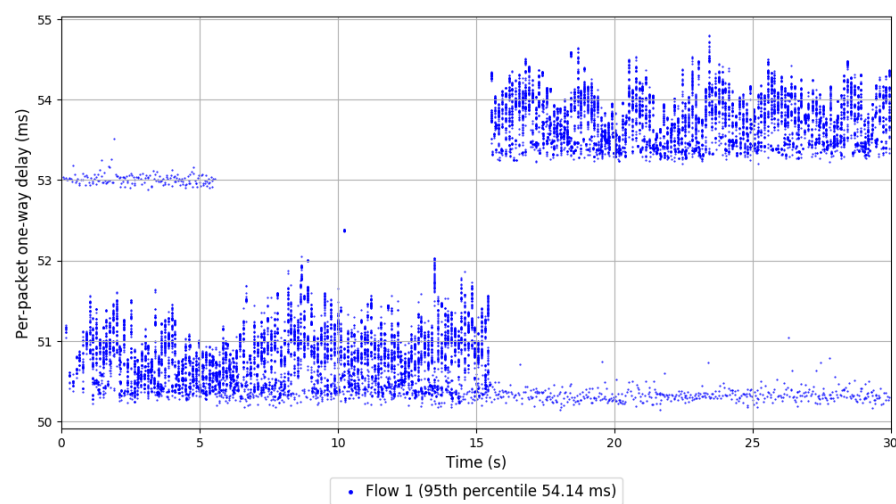
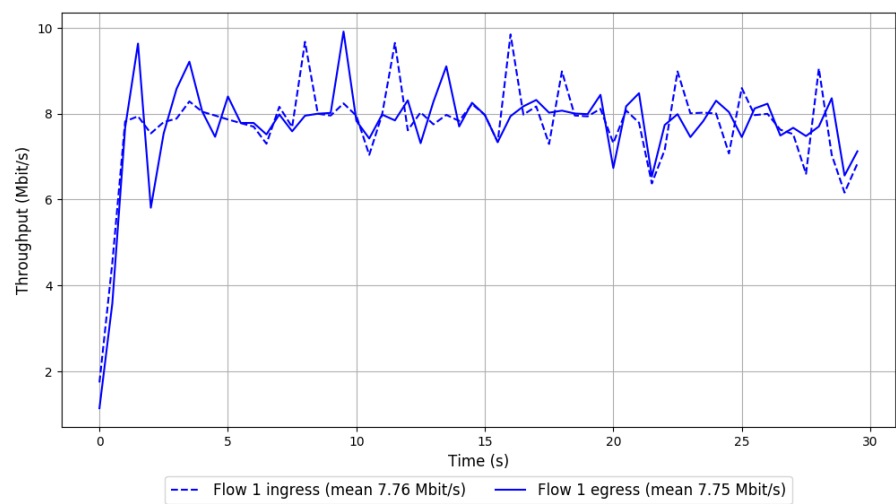
-- Flow 1:

Average throughput: 7.75 Mbit/s

95th percentile per-packet one-way delay: 54.142 ms

Loss rate: 0.08%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2017-11-21 05:06:11

End at: 2017-11-21 05:06:41

Below is generated by plot.py at 2017-11-21 07:17:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.64 Mbit/s

95th percentile per-packet one-way delay: 54.245 ms

Loss rate: 0.00%

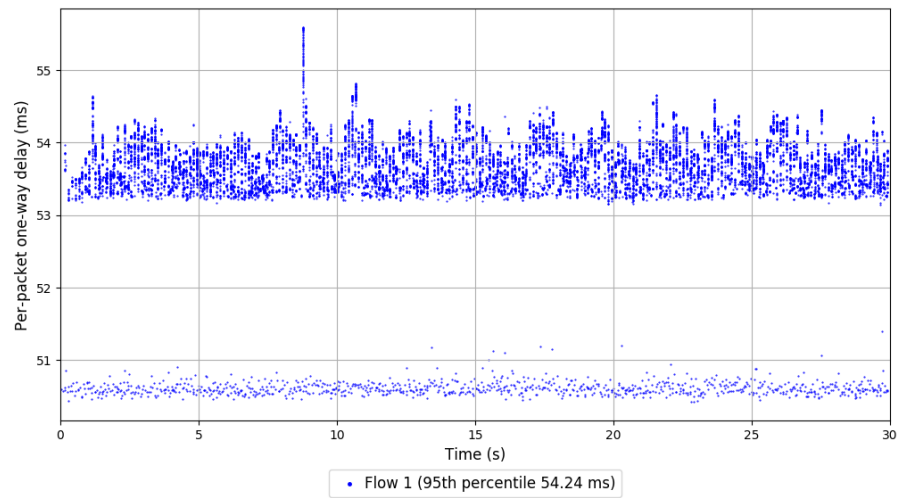
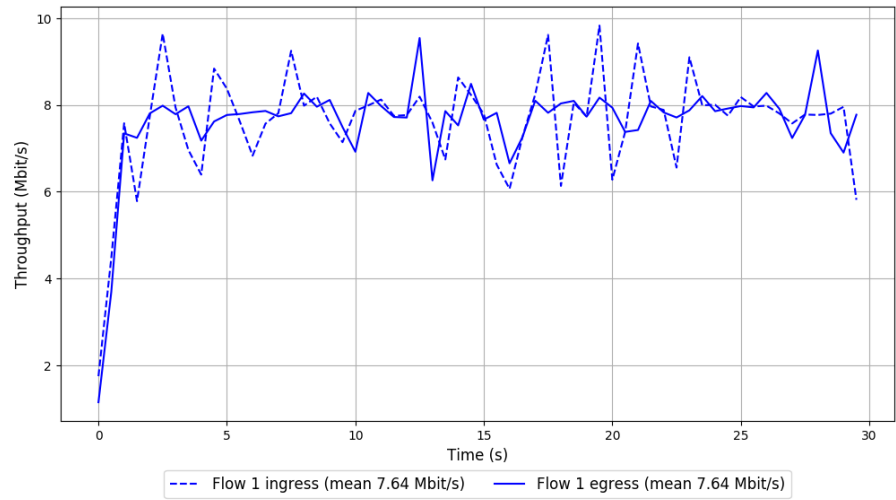
-- Flow 1:

Average throughput: 7.64 Mbit/s

95th percentile per-packet one-way delay: 54.245 ms

Loss rate: 0.00%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2017-11-21 05:16:26

End at: 2017-11-21 05:16:56

Below is generated by plot.py at 2017-11-21 07:17:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.83 Mbit/s

95th percentile per-packet one-way delay: 54.248 ms

Loss rate: 0.03%

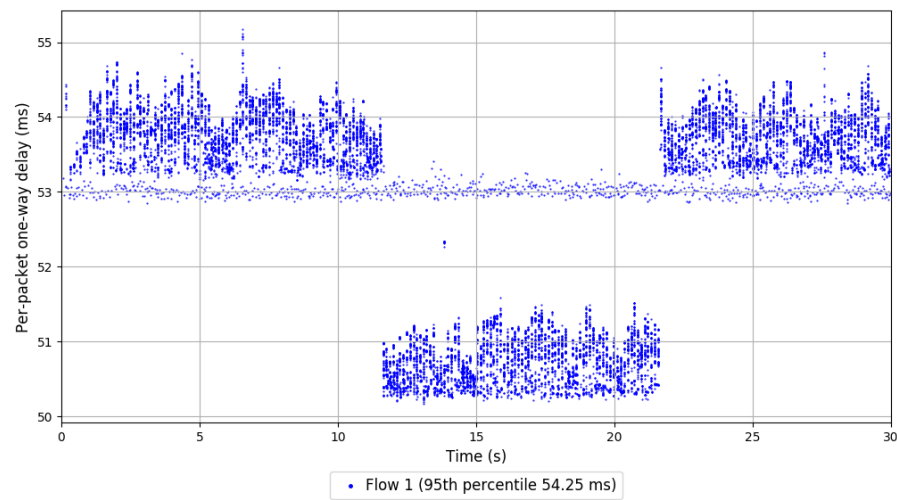
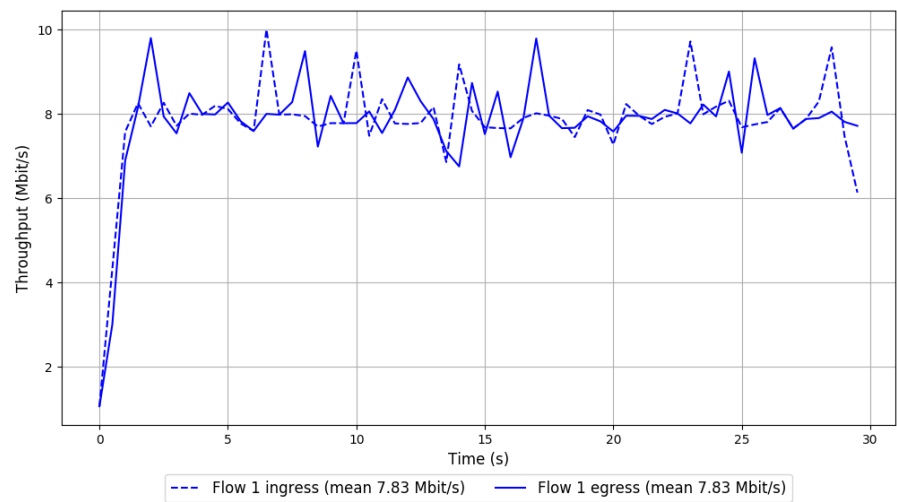
-- Flow 1:

Average throughput: 7.83 Mbit/s

95th percentile per-packet one-way delay: 54.248 ms

Loss rate: 0.03%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2017-11-21 05:26:42

End at: 2017-11-21 05:27:12

Below is generated by plot.py at 2017-11-21 07:17:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.87 Mbit/s

95th percentile per-packet one-way delay: 54.419 ms

Loss rate: 0.04%

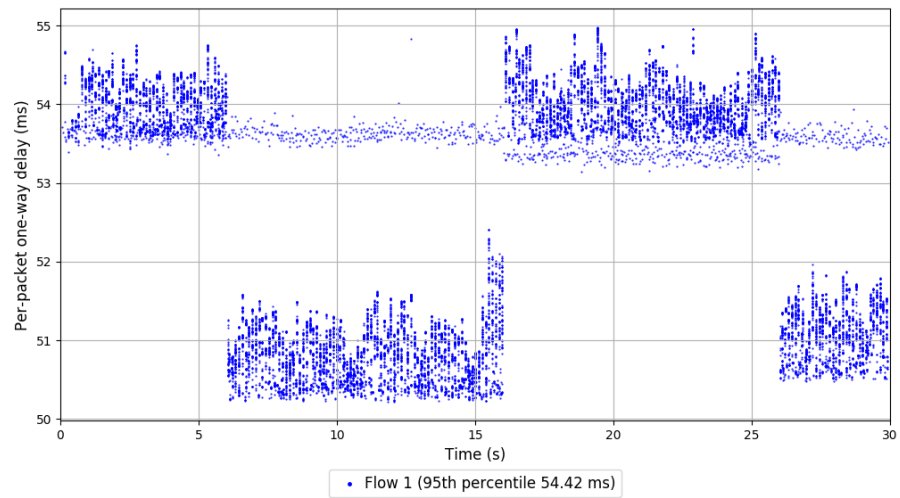
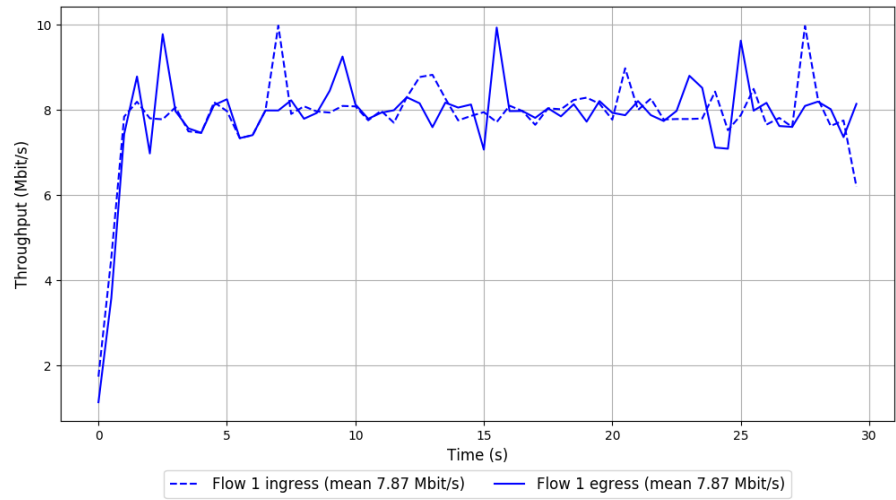
-- Flow 1:

Average throughput: 7.87 Mbit/s

95th percentile per-packet one-way delay: 54.419 ms

Loss rate: 0.04%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2017-11-21 05:36:57

End at: 2017-11-21 05:37:27

Below is generated by plot.py at 2017-11-21 07:17:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.91 Mbit/s

95th percentile per-packet one-way delay: 54.495 ms

Loss rate: 0.11%

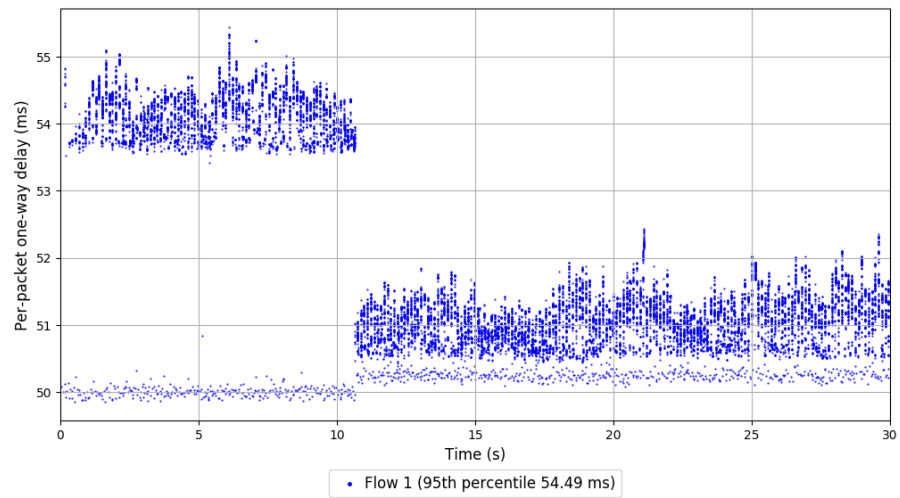
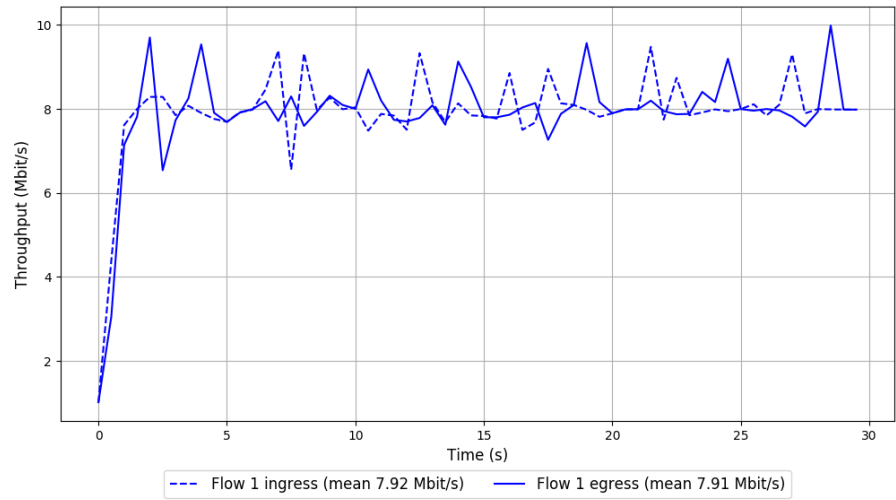
-- Flow 1:

Average throughput: 7.91 Mbit/s

95th percentile per-packet one-way delay: 54.495 ms

Loss rate: 0.11%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2017-11-21 05:47:32

End at: 2017-11-21 05:48:02

Below is generated by plot.py at 2017-11-21 07:17:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.67 Mbit/s

95th percentile per-packet one-way delay: 54.738 ms

Loss rate: 0.00%

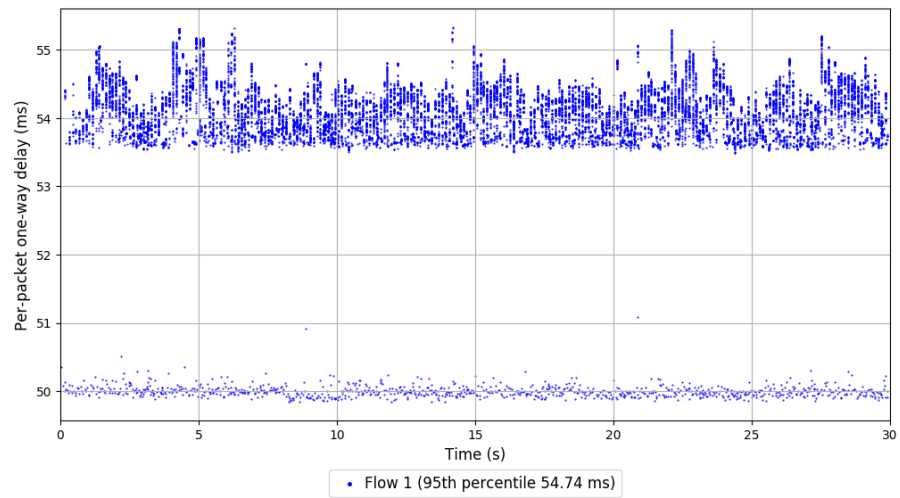
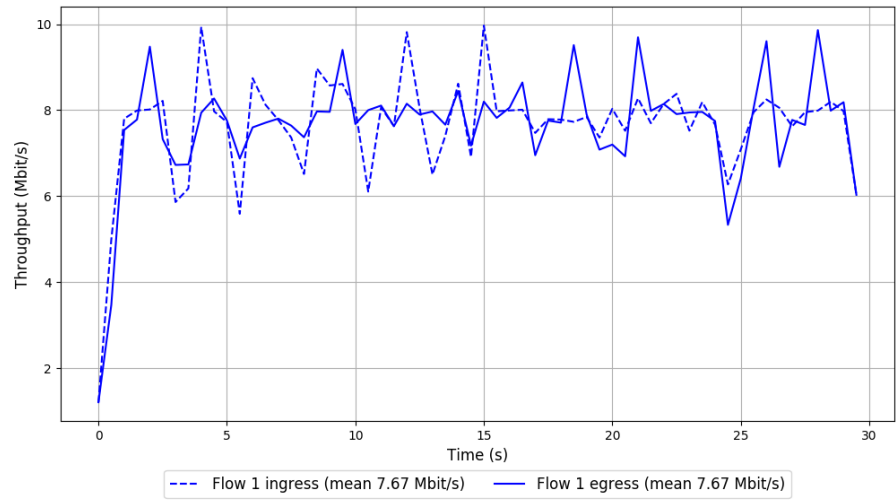
-- Flow 1:

Average throughput: 7.67 Mbit/s

95th percentile per-packet one-way delay: 54.738 ms

Loss rate: 0.00%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2017-11-21 05:58:06

End at: 2017-11-21 05:58:36

Below is generated by plot.py at 2017-11-21 07:17:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.80 Mbit/s

95th percentile per-packet one-way delay: 54.391 ms

Loss rate: 0.04%

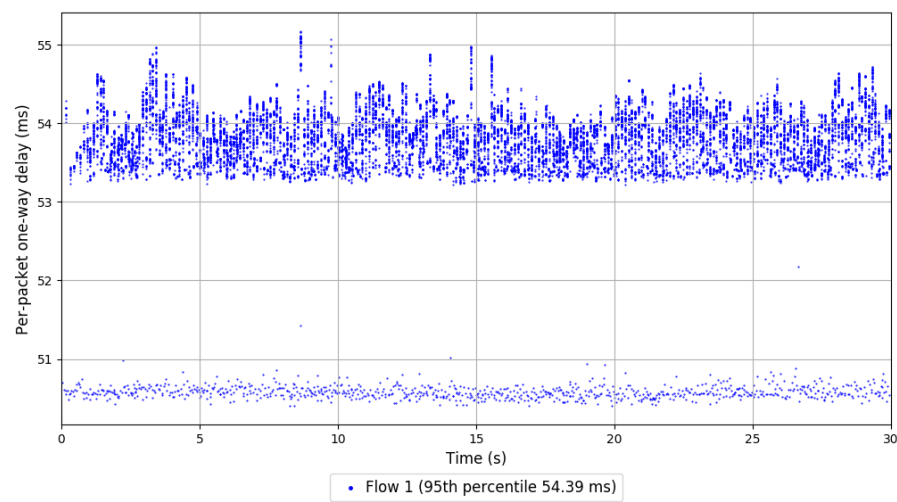
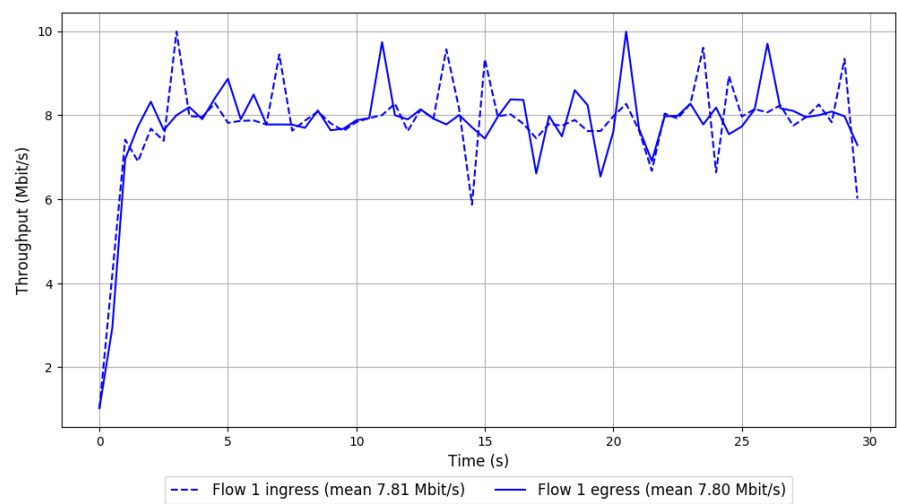
-- Flow 1:

Average throughput: 7.80 Mbit/s

95th percentile per-packet one-way delay: 54.391 ms

Loss rate: 0.04%

Run 10: Report of Sprout — Data Link

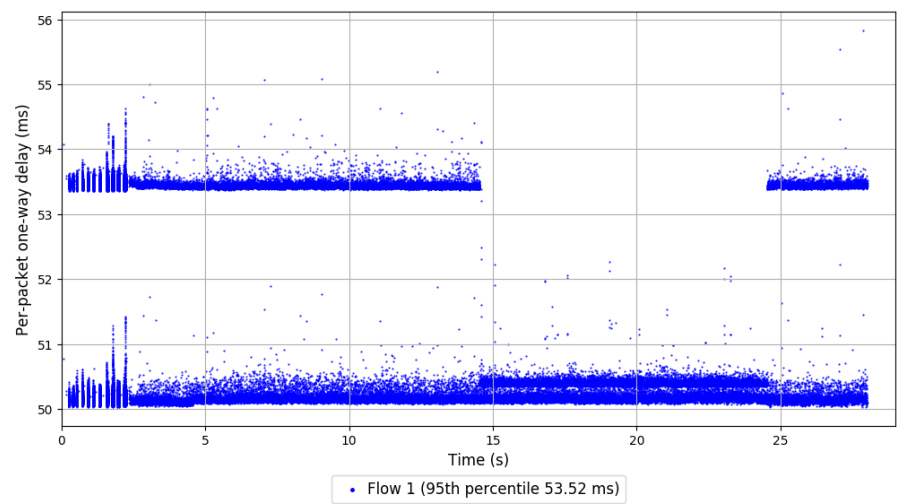
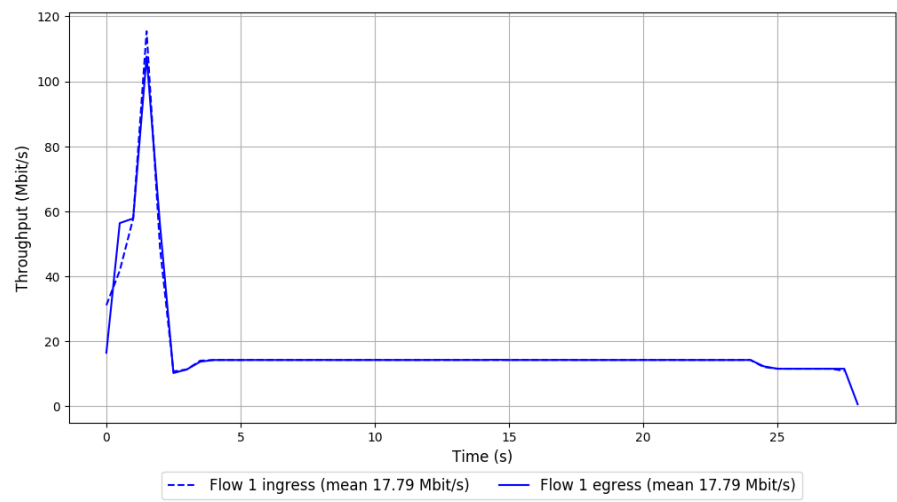


```
Run 1: Statistics of TaoVA-100x

Start at: 2017-11-21 04:29:01
End at: 2017-11-21 04:29:31

# Below is generated by plot.py at 2017-11-21 07:17:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 17.79 Mbit/s
95th percentile per-packet one-way delay: 53.518 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 17.79 Mbit/s
95th percentile per-packet one-way delay: 53.518 ms
Loss rate: 0.00%
```


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

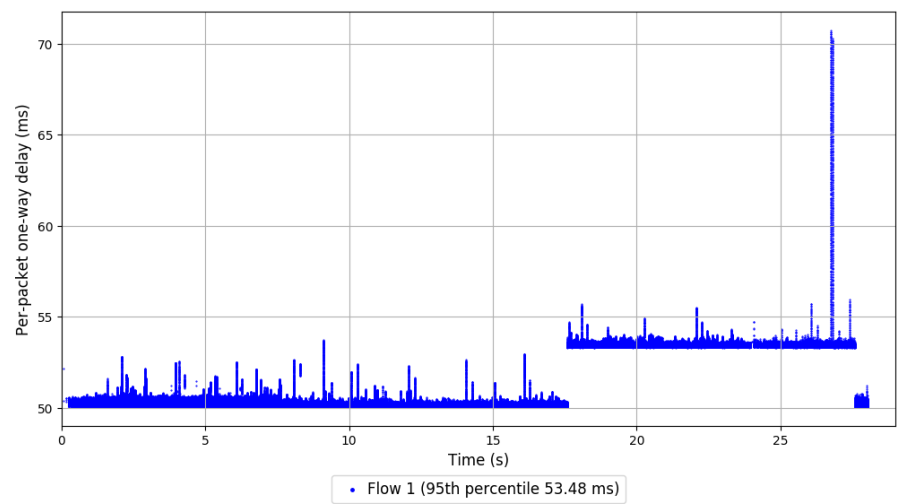
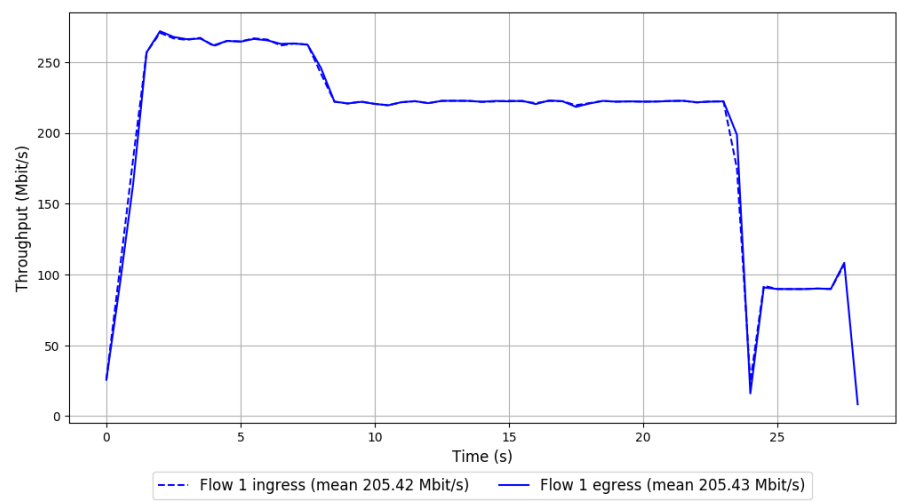


```
Run 2: Statistics of TaoVA-100x

Start at: 2017-11-21 04:39:18
End at: 2017-11-21 04:39:48

# Below is generated by plot.py at 2017-11-21 07:17:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 205.43 Mbit/s
95th percentile per-packet one-way delay: 53.482 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 205.43 Mbit/s
95th percentile per-packet one-way delay: 53.482 ms
Loss rate: 0.00%
```

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



Run 3: Statistics of TaoVA-100x

Start at: 2017-11-21 04:49:55

End at: 2017-11-21 04:50:25

Below is generated by plot.py at 2017-11-21 07:17:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 102.67 Mbit/s

95th percentile per-packet one-way delay: 50.537 ms

Loss rate: 0.00%

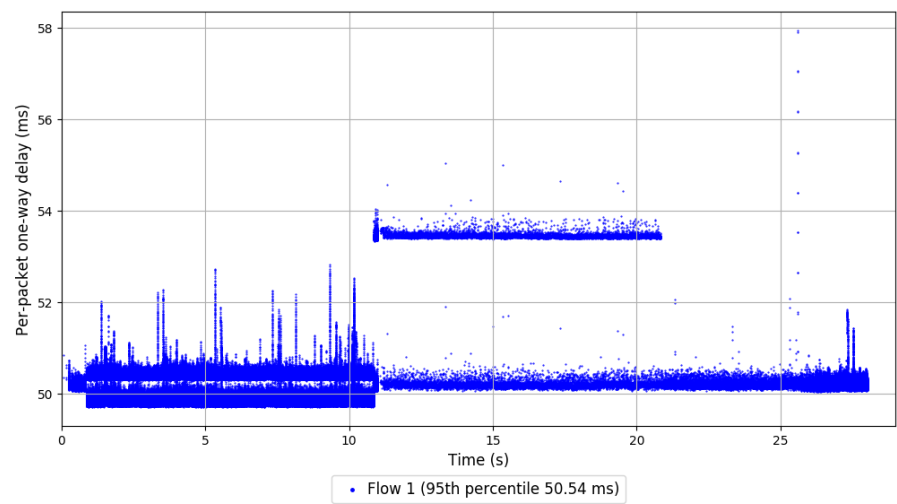
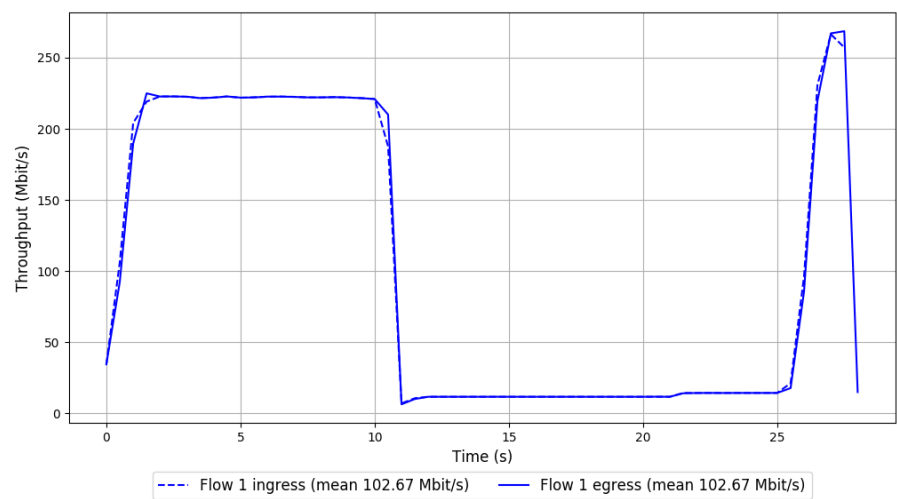
-- Flow 1:

Average throughput: 102.67 Mbit/s

95th percentile per-packet one-way delay: 50.537 ms

Loss rate: 0.00%

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

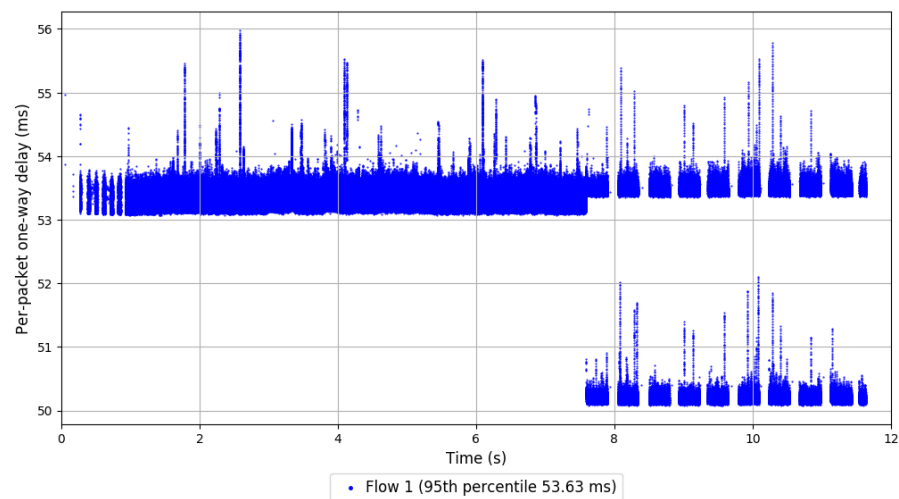
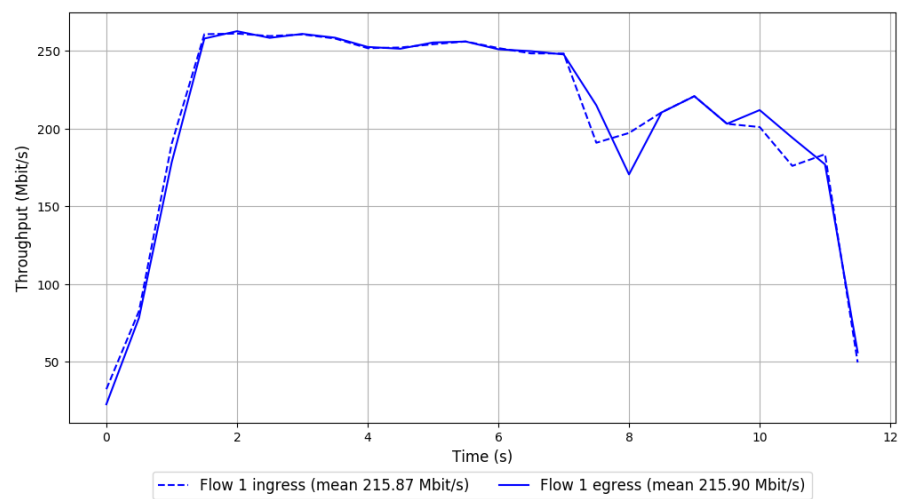


Run 4: Statistics of TaoVA-100x

Start at: 2017-11-21 05:00:18

End at: 2017-11-21 05:00:48

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



Run 5: Statistics of TaoVA-100x

Start at: 2017-11-21 05:10:39

End at: 2017-11-21 05:11:09

Below is generated by plot.py at 2017-11-21 07:17:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.93 Mbit/s

95th percentile per-packet one-way delay: 53.561 ms

Loss rate: 0.00%

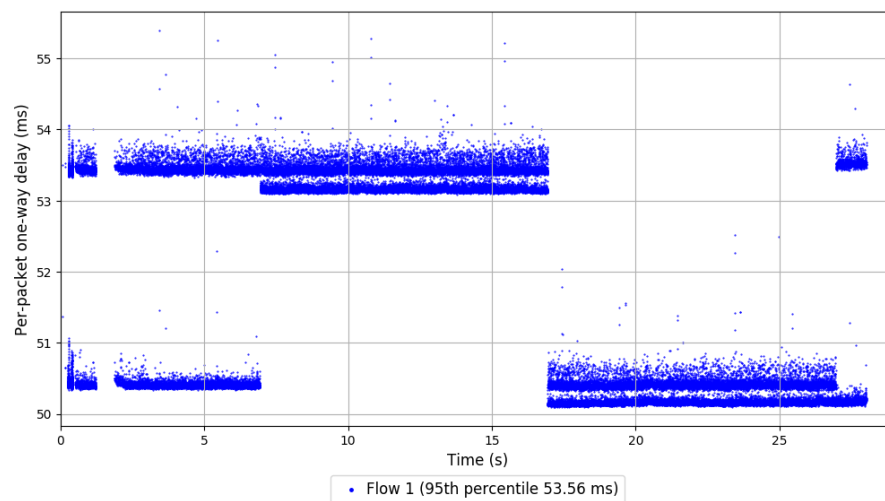
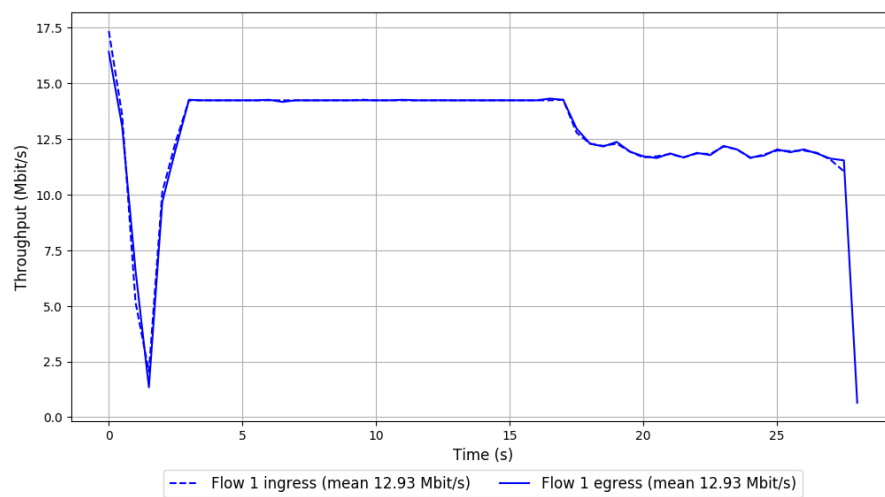
-- Flow 1:

Average throughput: 12.93 Mbit/s

95th percentile per-packet one-way delay: 53.561 ms

Loss rate: 0.00%

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



Run 6: Statistics of TaoVA-100x

Start at: 2017-11-21 05:20:53

End at: 2017-11-21 05:21:23

Below is generated by plot.py at 2017-11-21 07:17:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 36.75 Mbit/s

95th percentile per-packet one-way delay: 53.313 ms

Loss rate: 0.00%

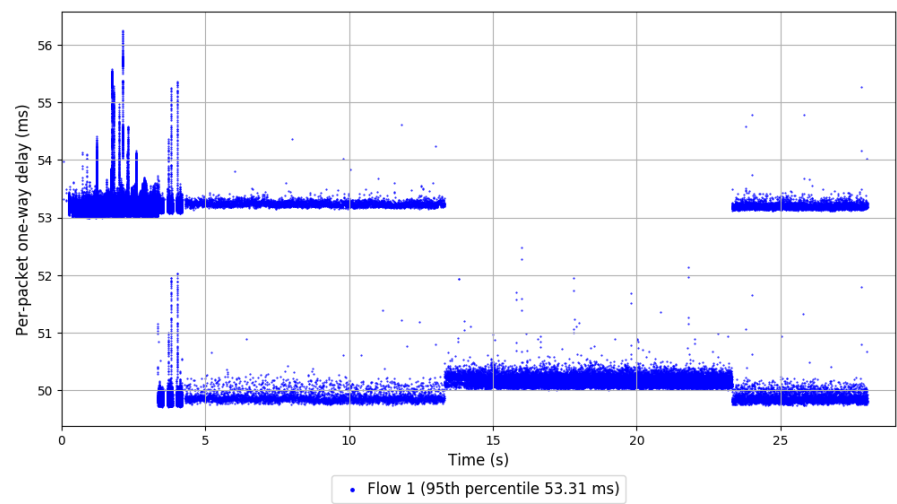
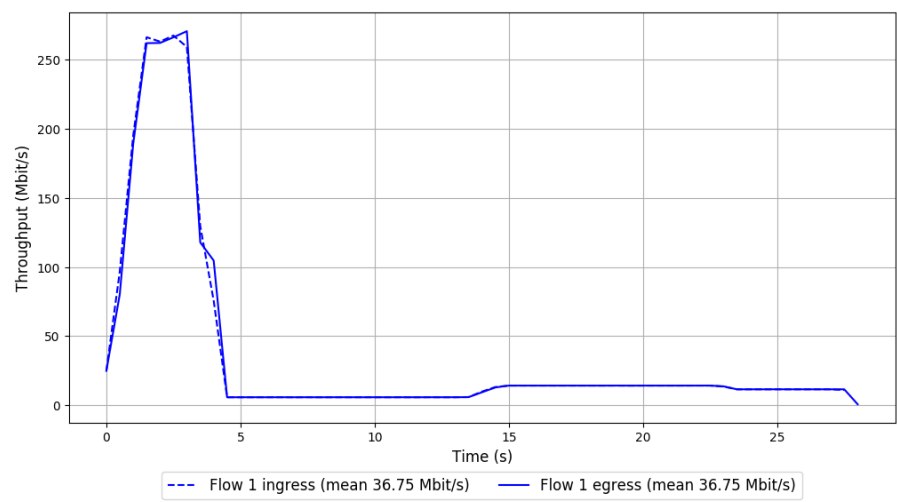
-- Flow 1:

Average throughput: 36.75 Mbit/s

95th percentile per-packet one-way delay: 53.313 ms

Loss rate: 0.00%

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



Run 7: Statistics of TaoVA-100x

Start at: 2017-11-21 05:31:10

End at: 2017-11-21 05:31:40

Below is generated by plot.py at 2017-11-21 07:17:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.18 Mbit/s

95th percentile per-packet one-way delay: 53.448 ms

Loss rate: 0.00%

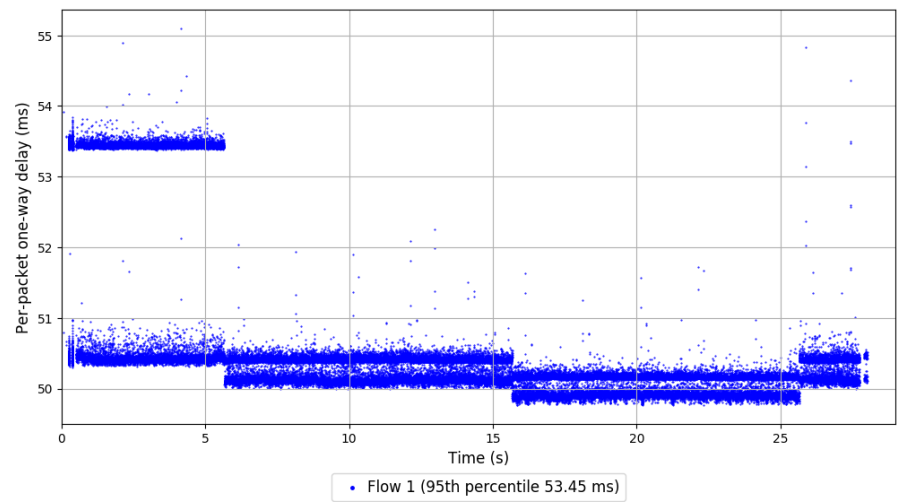
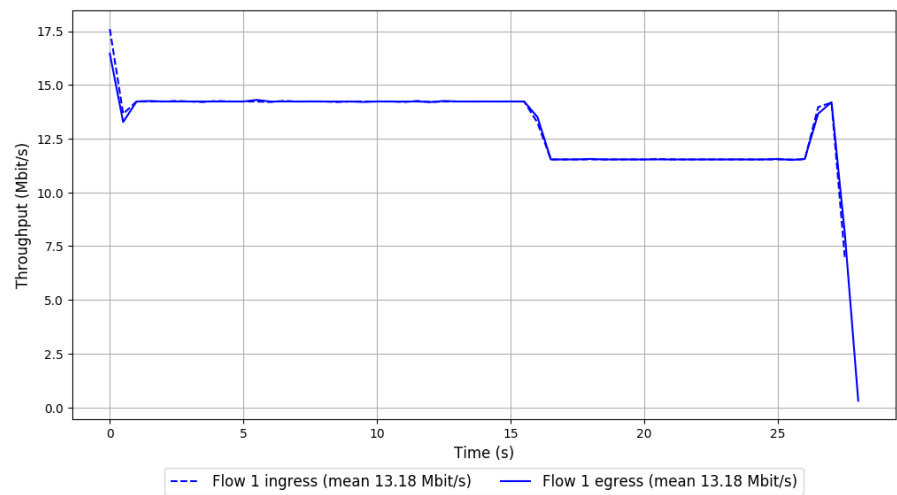
-- Flow 1:

Average throughput: 13.18 Mbit/s

95th percentile per-packet one-way delay: 53.448 ms

Loss rate: 0.00%

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



Run 8: Statistics of TaoVA-100x

Start at: 2017-11-21 05:41:26

End at: 2017-11-21 05:41:56

Below is generated by plot.py at 2017-11-21 07:17:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 251.76 Mbit/s

95th percentile per-packet one-way delay: 50.556 ms

Loss rate: 0.00%

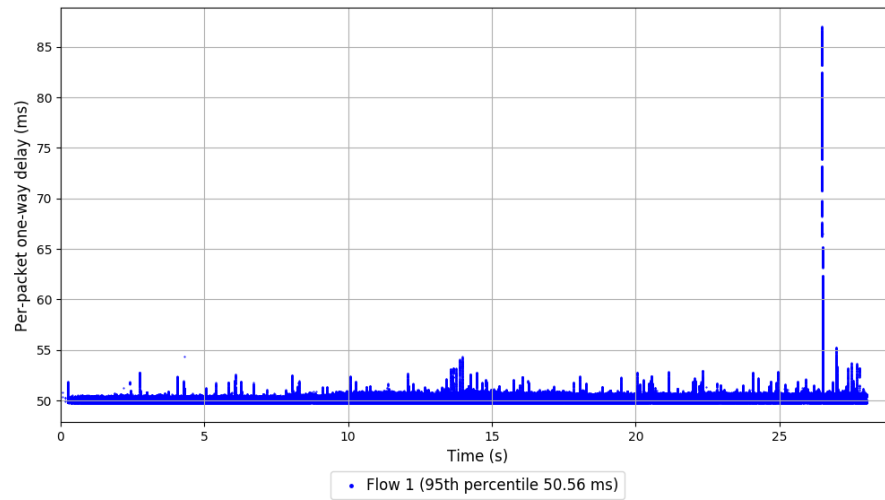
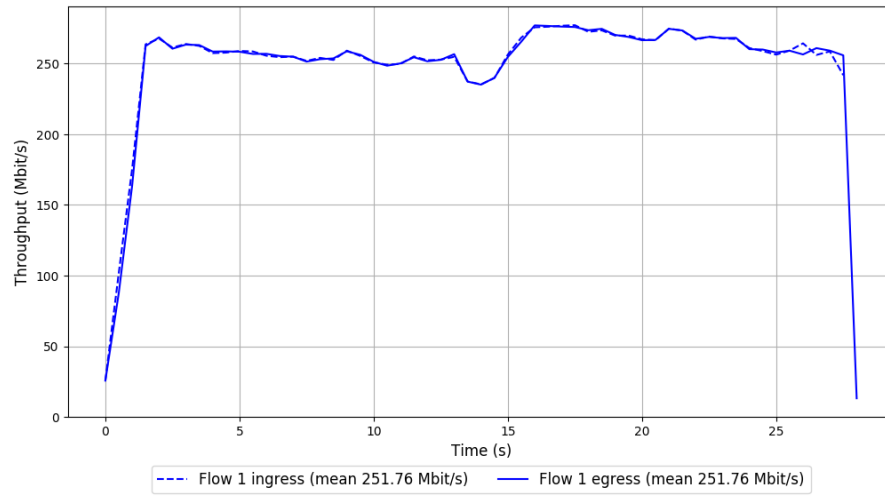
-- Flow 1:

Average throughput: 251.76 Mbit/s

95th percentile per-packet one-way delay: 50.556 ms

Loss rate: 0.00%

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



Run 9: Statistics of TaoVA-100x

Start at: 2017-11-21 05:52:08

End at: 2017-11-21 05:52:38

Below is generated by plot.py at 2017-11-21 07:17:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 99.14 Mbit/s

95th percentile per-packet one-way delay: 50.689 ms

Loss rate: 0.00%

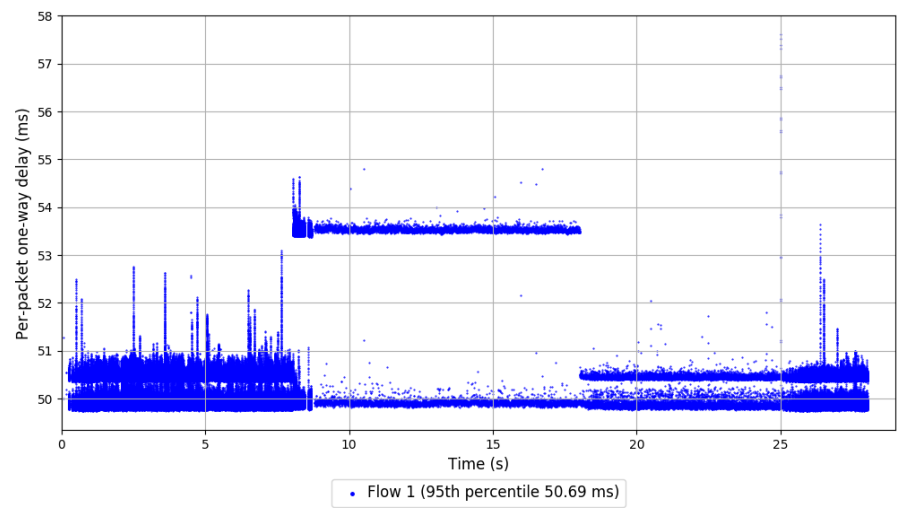
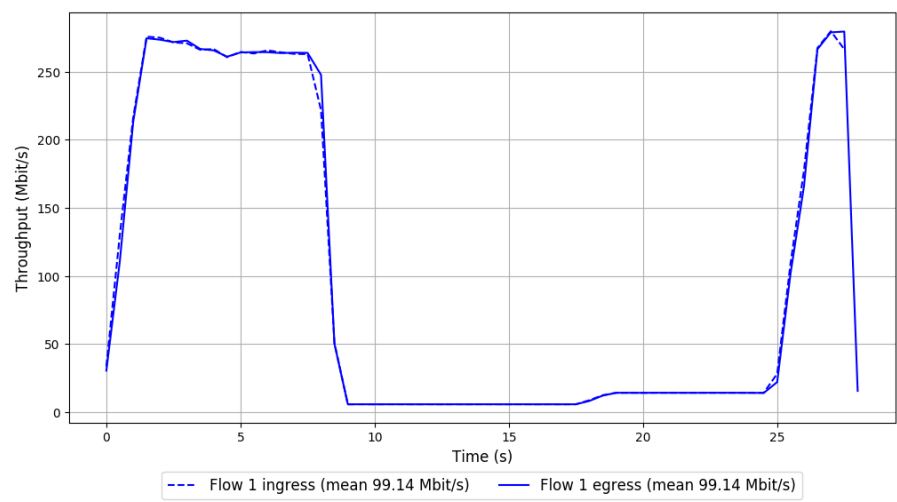
-- Flow 1:

Average throughput: 99.14 Mbit/s

95th percentile per-packet one-way delay: 50.689 ms

Loss rate: 0.00%

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

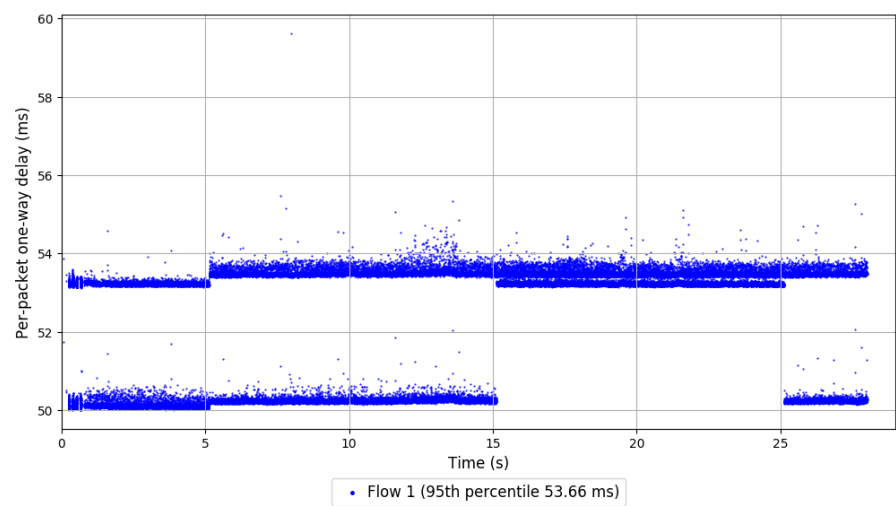
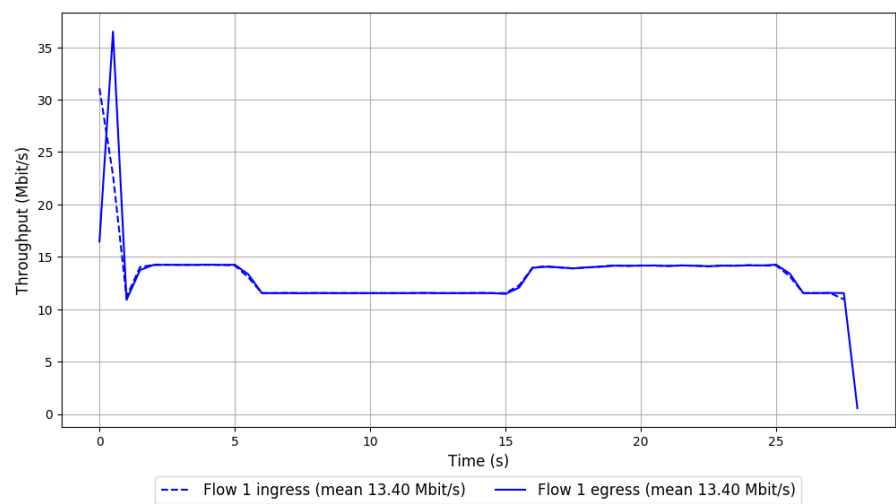


```
Run 10: Statistics of TaoVA-100x

Start at: 2017-11-21 06:02:31
End at: 2017-11-21 06:03:01

# Below is generated by plot.py at 2017-11-21 07:17:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 13.40 Mbit/s
95th percentile per-packet one-way delay: 53.657 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 13.40 Mbit/s
95th percentile per-packet one-way delay: 53.657 ms
Loss rate: 0.00%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2017-11-21 04:29:40

End at: 2017-11-21 04:30:10

Below is generated by plot.py at 2017-11-21 07:17:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 51.37 Mbit/s

95th percentile per-packet one-way delay: 51.765 ms

Loss rate: 0.02%

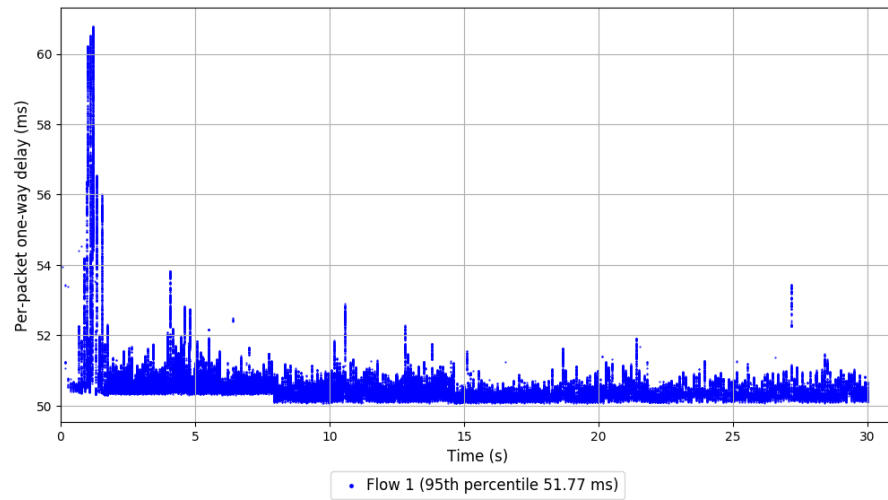
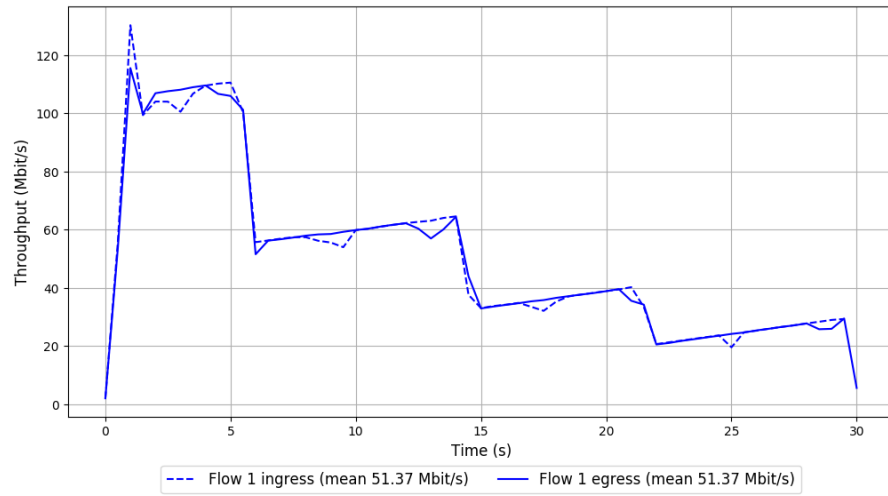
-- Flow 1:

Average throughput: 51.37 Mbit/s

95th percentile per-packet one-way delay: 51.765 ms

Loss rate: 0.02%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2017-11-21 04:40:14

End at: 2017-11-21 04:40:44

Below is generated by plot.py at 2017-11-21 07:17:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 30.24 Mbit/s

95th percentile per-packet one-way delay: 54.246 ms

Loss rate: 0.01%

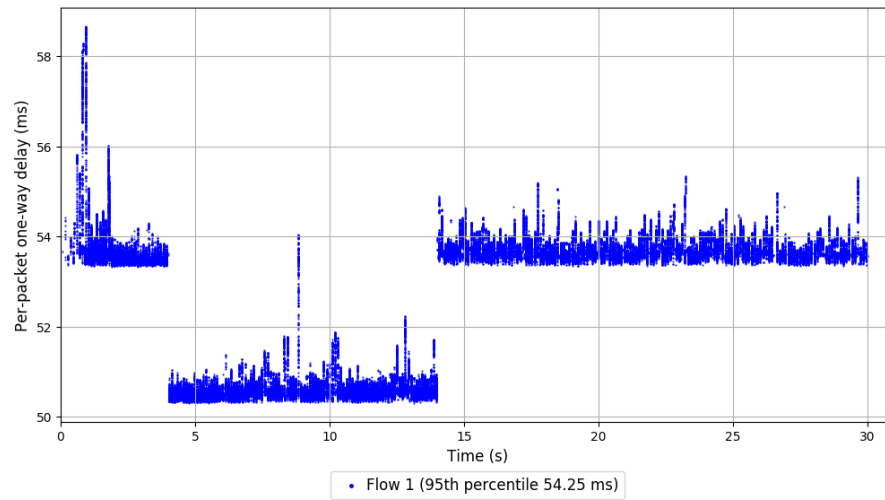
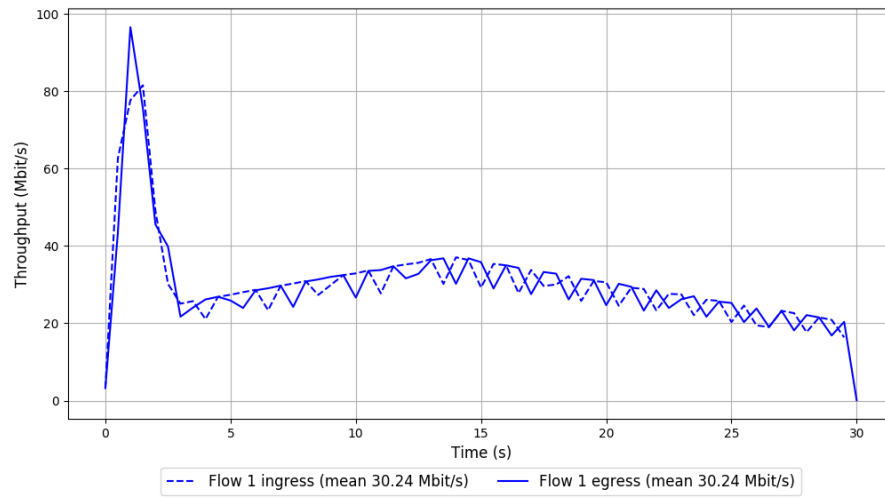
-- Flow 1:

Average throughput: 30.24 Mbit/s

95th percentile per-packet one-way delay: 54.246 ms

Loss rate: 0.01%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2017-11-21 04:50:41

End at: 2017-11-21 04:51:11

Below is generated by plot.py at 2017-11-21 07:17:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 39.09 Mbit/s

95th percentile per-packet one-way delay: 53.624 ms

Loss rate: 0.00%

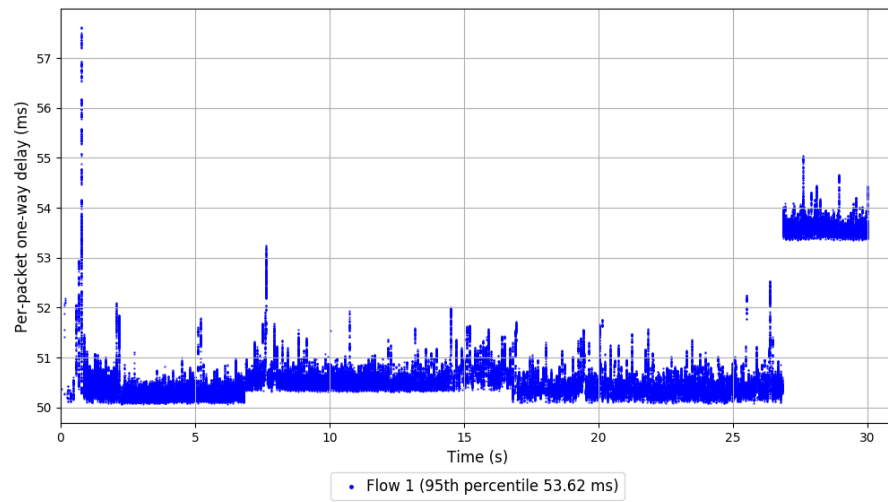
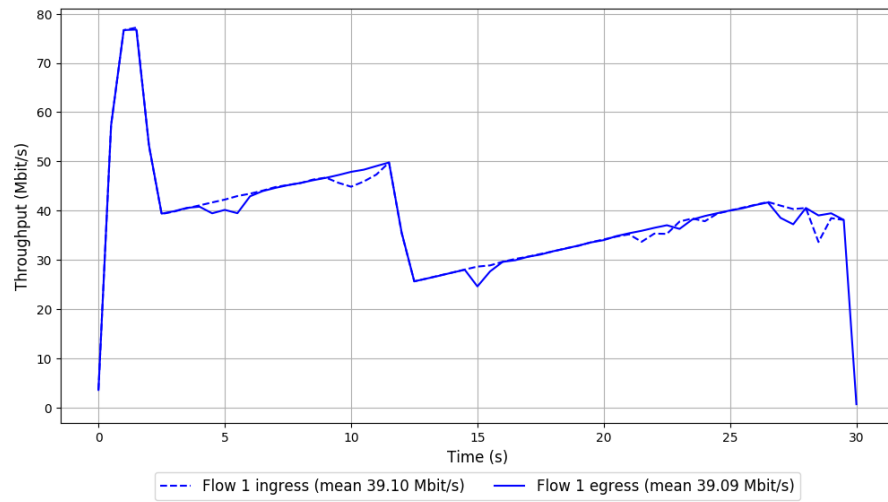
-- Flow 1:

Average throughput: 39.09 Mbit/s

95th percentile per-packet one-way delay: 53.624 ms

Loss rate: 0.00%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2017-11-21 05:01:03

End at: 2017-11-21 05:01:33

Below is generated by plot.py at 2017-11-21 07:17:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.19 Mbit/s

95th percentile per-packet one-way delay: 53.794 ms

Loss rate: 0.06%

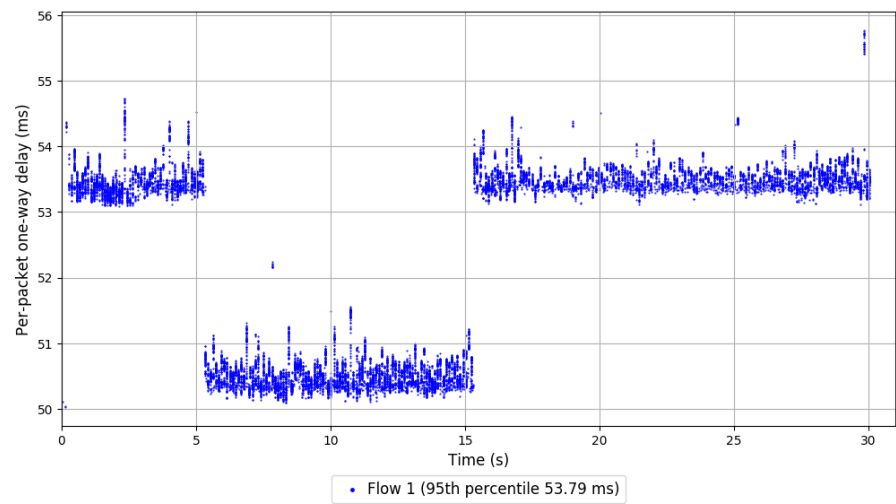
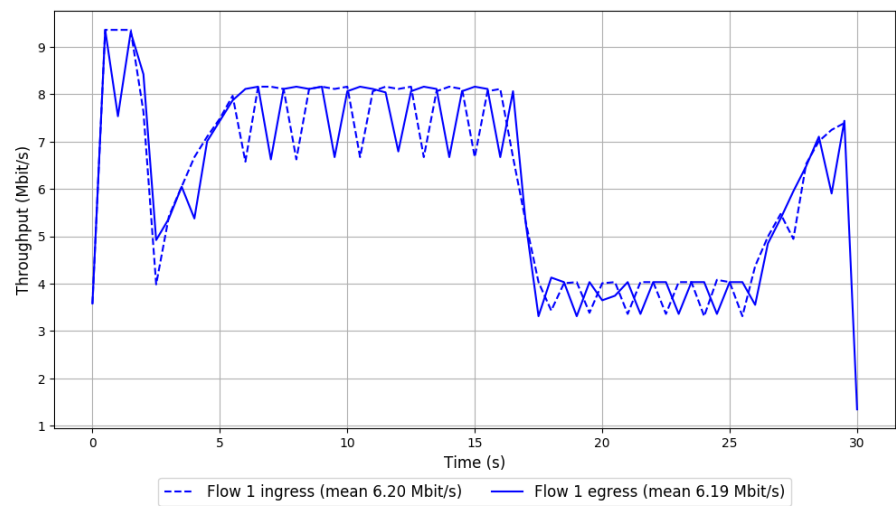
-- Flow 1:

Average throughput: 6.19 Mbit/s

95th percentile per-packet one-way delay: 53.794 ms

Loss rate: 0.06%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2017-11-21 05:11:17

End at: 2017-11-21 05:11:47

Below is generated by plot.py at 2017-11-21 07:17:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 22.47 Mbit/s

95th percentile per-packet one-way delay: 53.813 ms

Loss rate: 0.01%

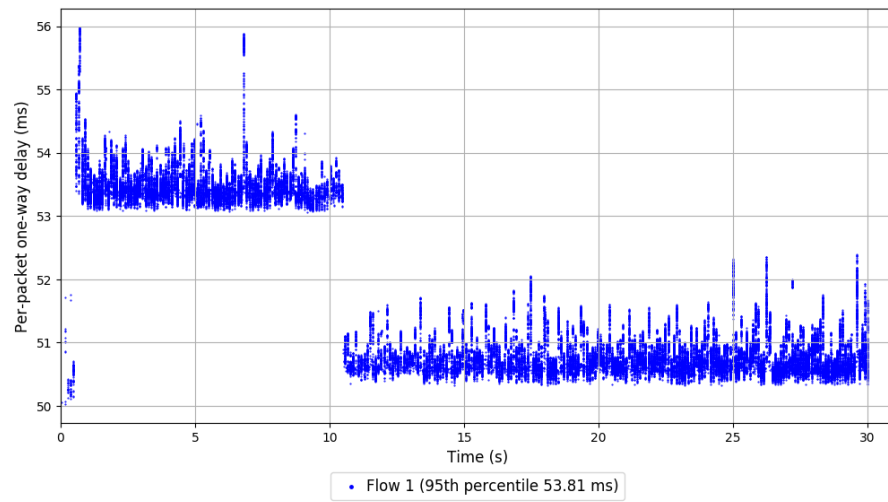
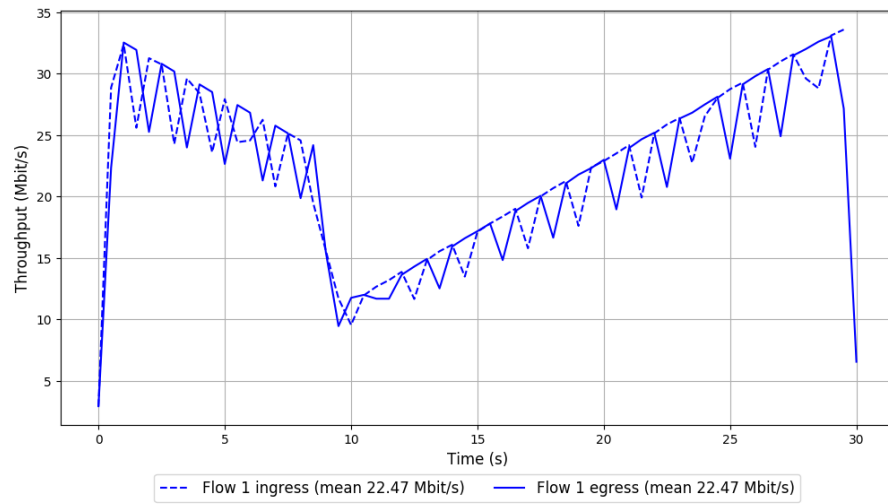
-- Flow 1:

Average throughput: 22.47 Mbit/s

95th percentile per-packet one-way delay: 53.813 ms

Loss rate: 0.01%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2017-11-21 05:21:33

End at: 2017-11-21 05:22:03

Below is generated by plot.py at 2017-11-21 07:17:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.14 Mbit/s

95th percentile per-packet one-way delay: 53.380 ms

Loss rate: 0.12%

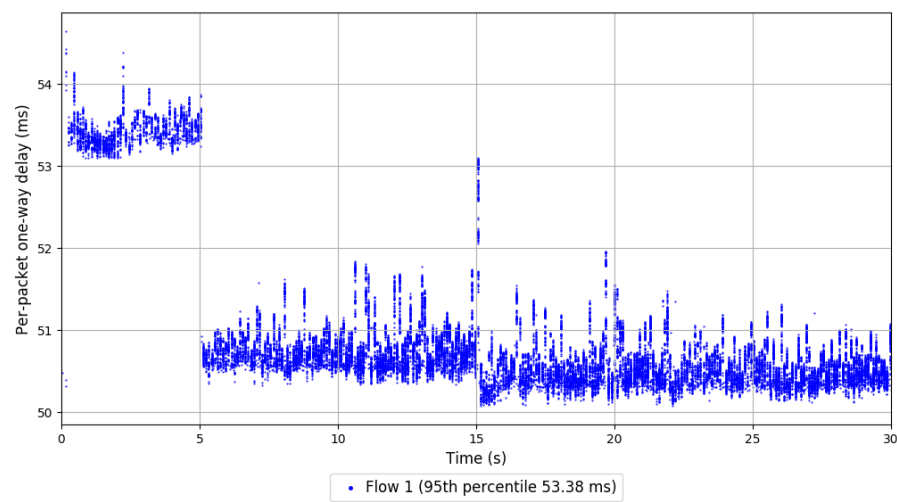
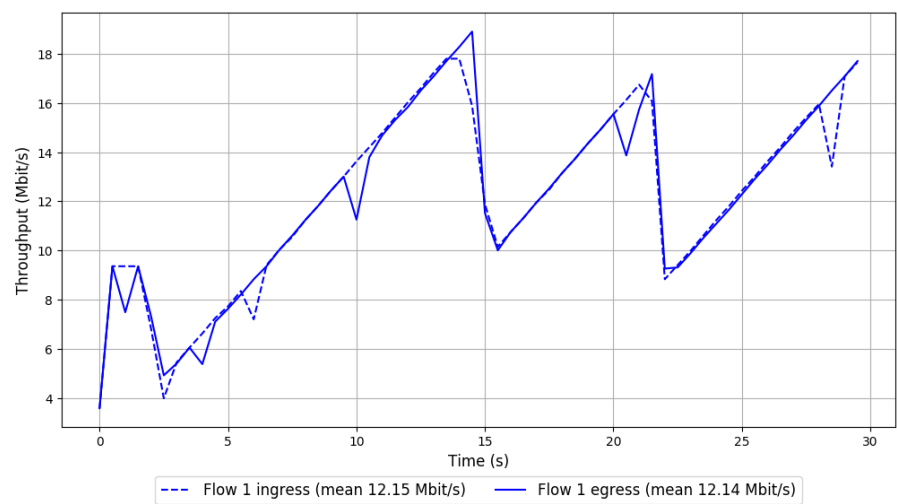
-- Flow 1:

Average throughput: 12.14 Mbit/s

95th percentile per-packet one-way delay: 53.380 ms

Loss rate: 0.12%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2017-11-21 05:31:49

End at: 2017-11-21 05:32:19

Below is generated by plot.py at 2017-11-21 07:17:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 16.55 Mbit/s

95th percentile per-packet one-way delay: 54.002 ms

Loss rate: 0.01%

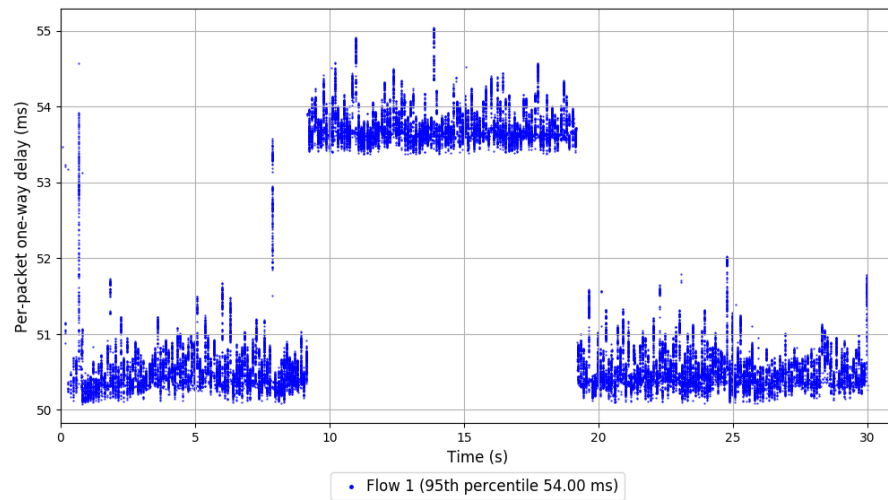
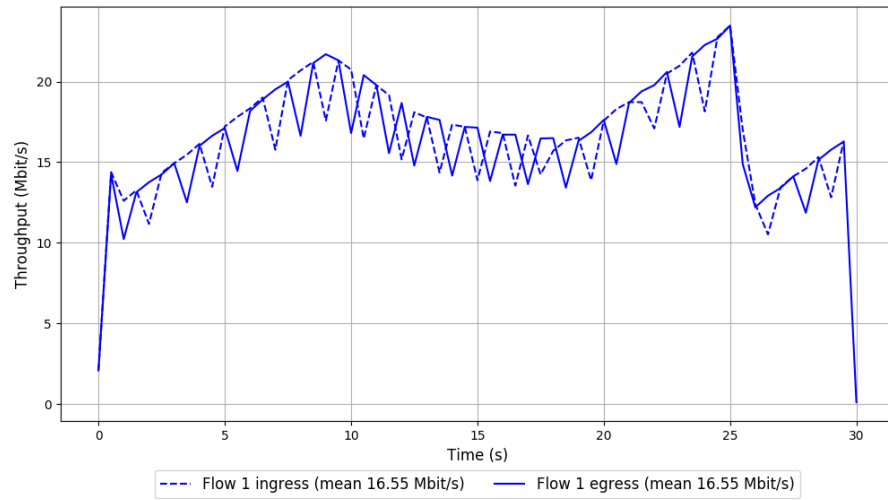
-- Flow 1:

Average throughput: 16.55 Mbit/s

95th percentile per-packet one-way delay: 54.002 ms

Loss rate: 0.01%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2017-11-21 05:42:26

End at: 2017-11-21 05:42:56

Below is generated by plot.py at 2017-11-21 07:17:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 34.79 Mbit/s

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

Loss rate: 0.01%

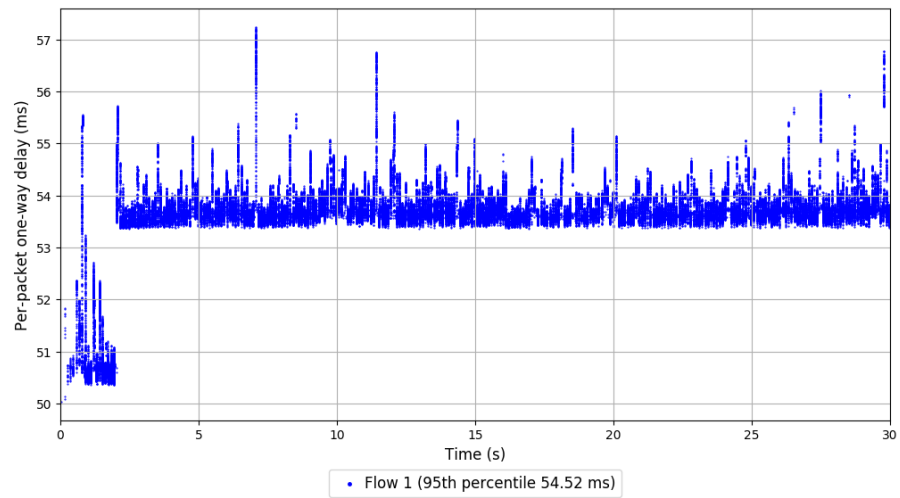
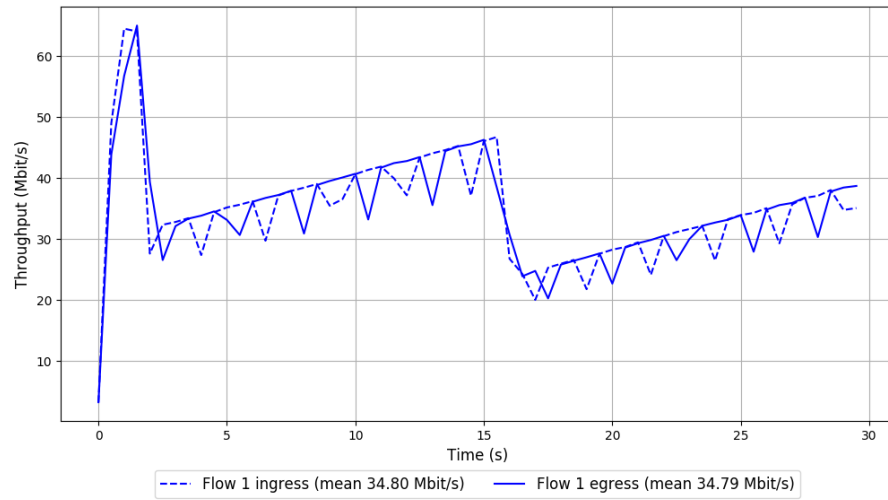
-- Flow 1:

Average throughput: 34.79 Mbit/s

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

Loss rate: 0.01%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2017-11-21 05:52:54

End at: 2017-11-21 05:53:24

Below is generated by plot.py at 2017-11-21 07:17:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 58.90 Mbit/s

95th percentile per-packet one-way delay: 53.687 ms

Loss rate: 0.01%

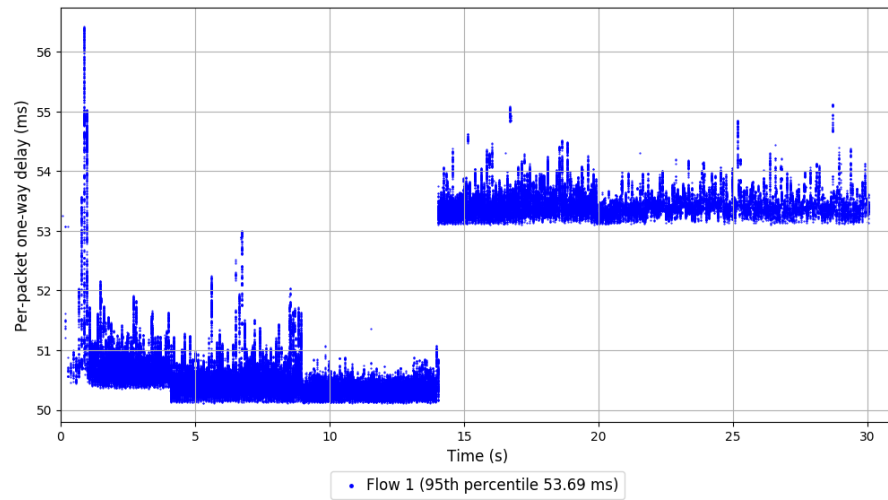
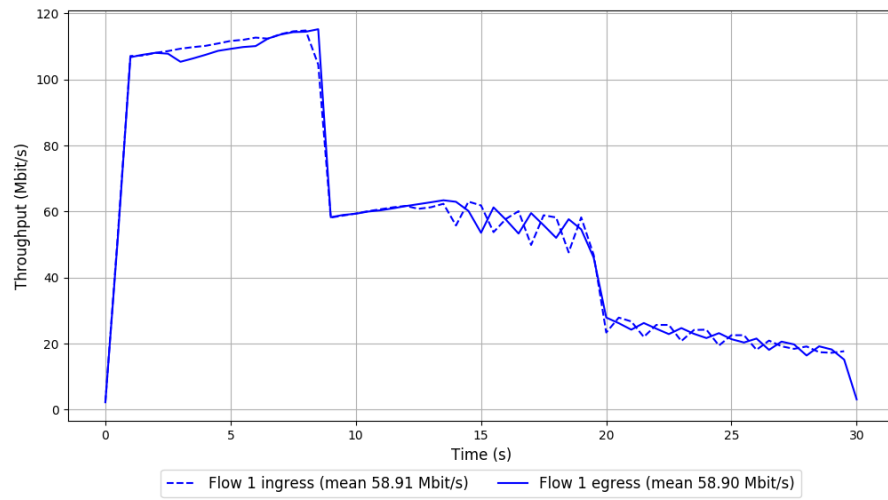
-- Flow 1:

Average throughput: 58.90 Mbit/s

95th percentile per-packet one-way delay: 53.687 ms

Loss rate: 0.01%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2017-11-21 06:03:09

End at: 2017-11-21 06:03:39

Below is generated by plot.py at 2017-11-21 07:17:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 14.93 Mbit/s

95th percentile per-packet one-way delay: 53.827 ms

Loss rate: 0.00%

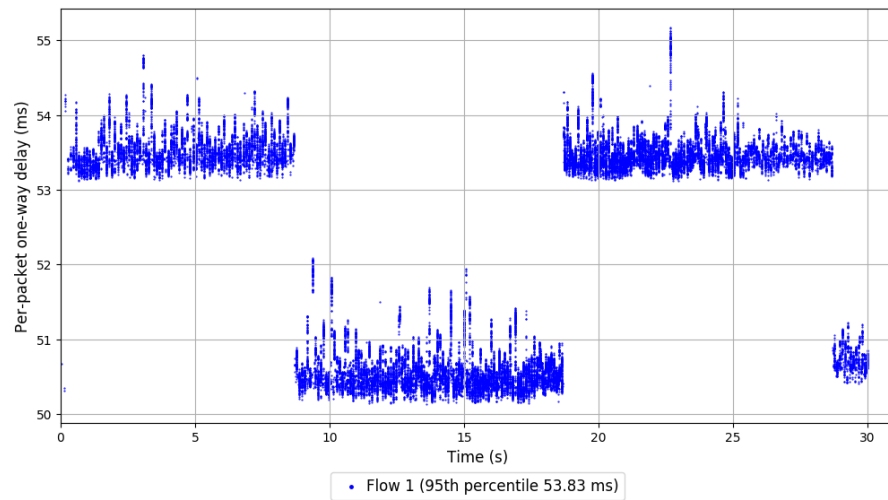
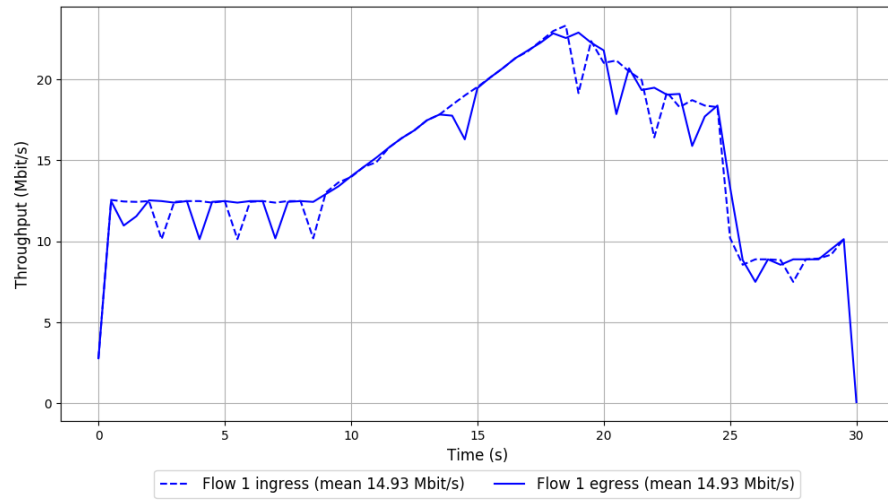
-- Flow 1:

Average throughput: 14.93 Mbit/s

95th percentile per-packet one-way delay: 53.827 ms

Loss rate: 0.00%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2017-11-21 04:28:10

End at: 2017-11-21 04:28:40

Below is generated by plot.py at 2017-11-21 07:17:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 210.04 Mbit/s

95th percentile per-packet one-way delay: 82.172 ms

Loss rate: 0.26%

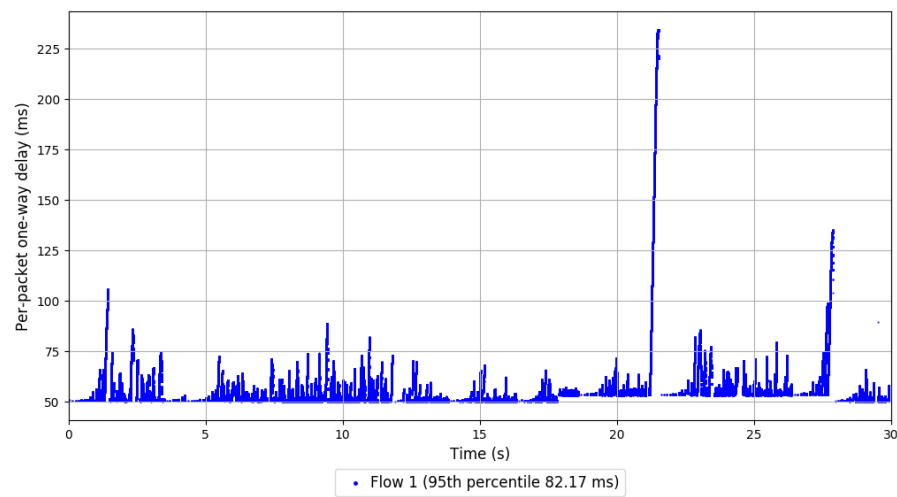
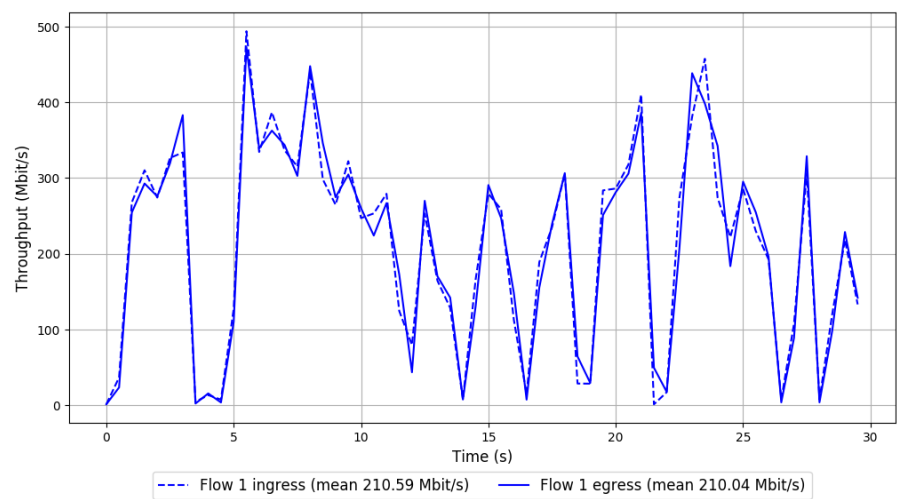
-- Flow 1:

Average throughput: 210.04 Mbit/s

95th percentile per-packet one-way delay: 82.172 ms

Loss rate: 0.26%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2017-11-21 04:38:24

End at: 2017-11-21 04:38:54

Below is generated by plot.py at 2017-11-21 07:17:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 260.94 Mbit/s

95th percentile per-packet one-way delay: 87.972 ms

Loss rate: 0.34%

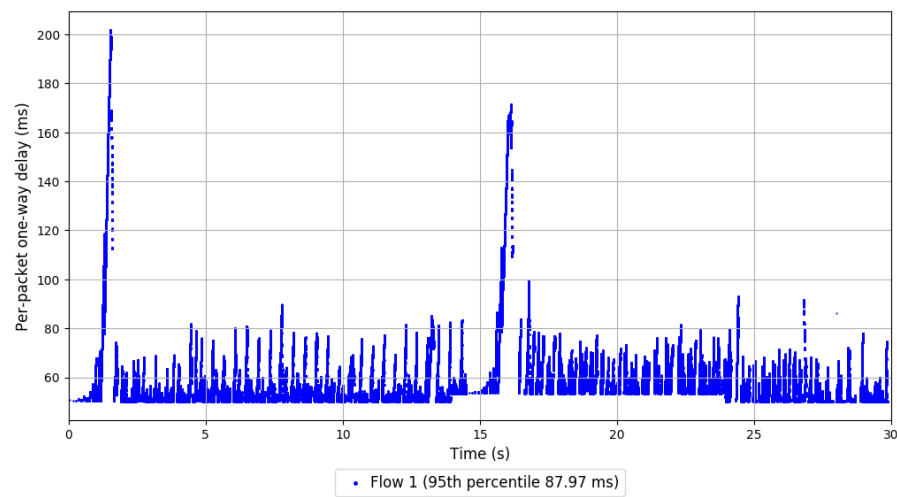
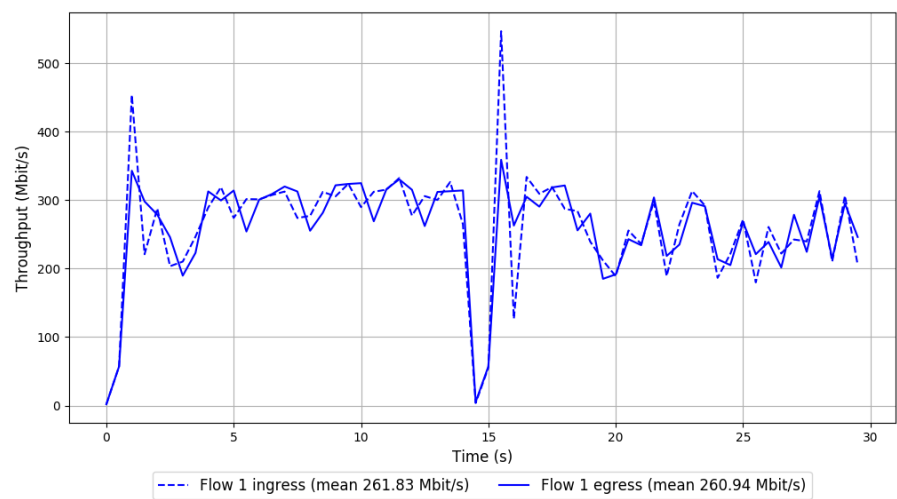
-- Flow 1:

Average throughput: 260.94 Mbit/s

95th percentile per-packet one-way delay: 87.972 ms

Loss rate: 0.34%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2017-11-21 04:48:58

End at: 2017-11-21 04:49:28

Below is generated by plot.py at 2017-11-21 07:17:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 284.52 Mbit/s

95th percentile per-packet one-way delay: 157.786 ms

Loss rate: 0.45%

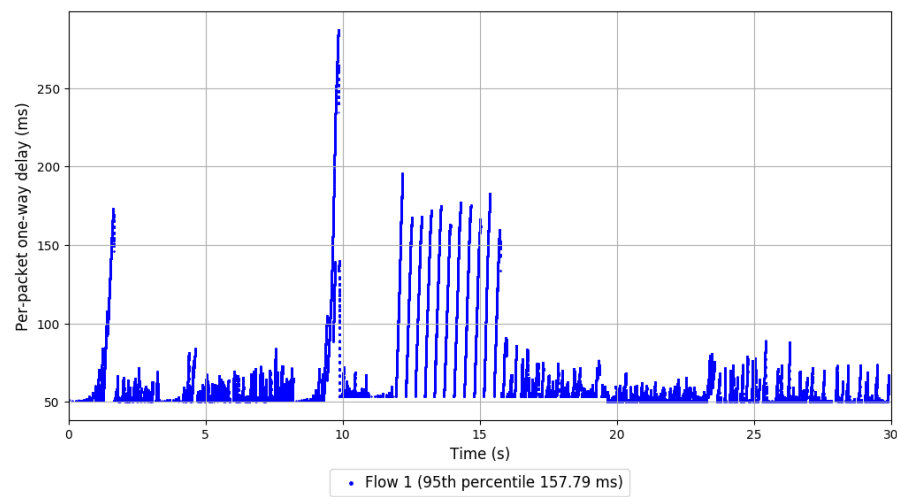
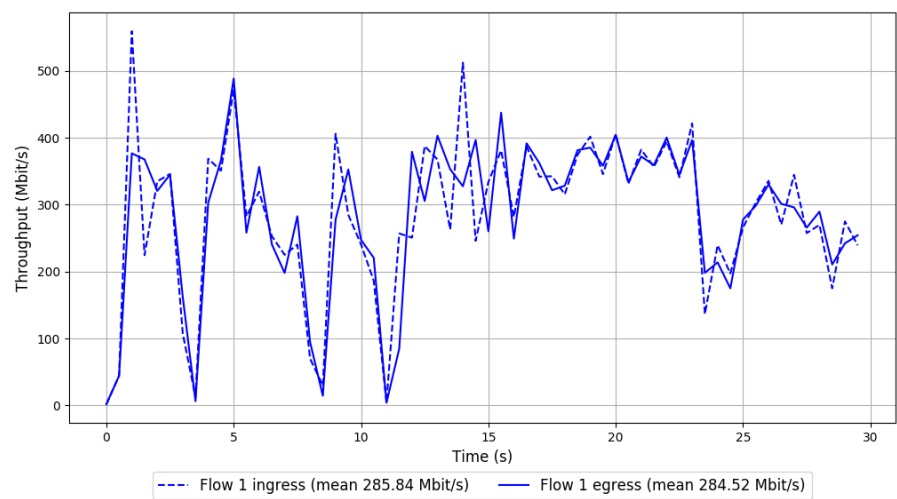
-- Flow 1:

Average throughput: 284.52 Mbit/s

95th percentile per-packet one-way delay: 157.786 ms

Loss rate: 0.45%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2017-11-21 04:59:24

End at: 2017-11-21 04:59:54

Below is generated by plot.py at 2017-11-21 07:17:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 241.82 Mbit/s

95th percentile per-packet one-way delay: 133.686 ms

Loss rate: 0.06%

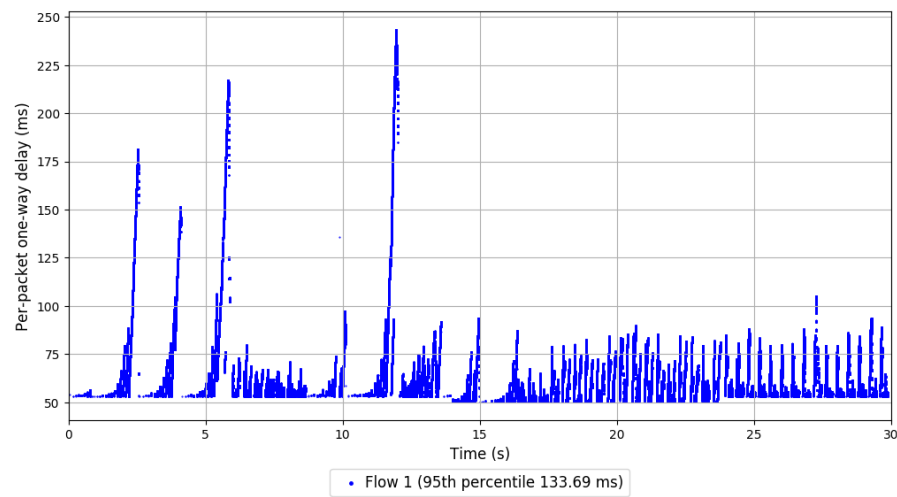
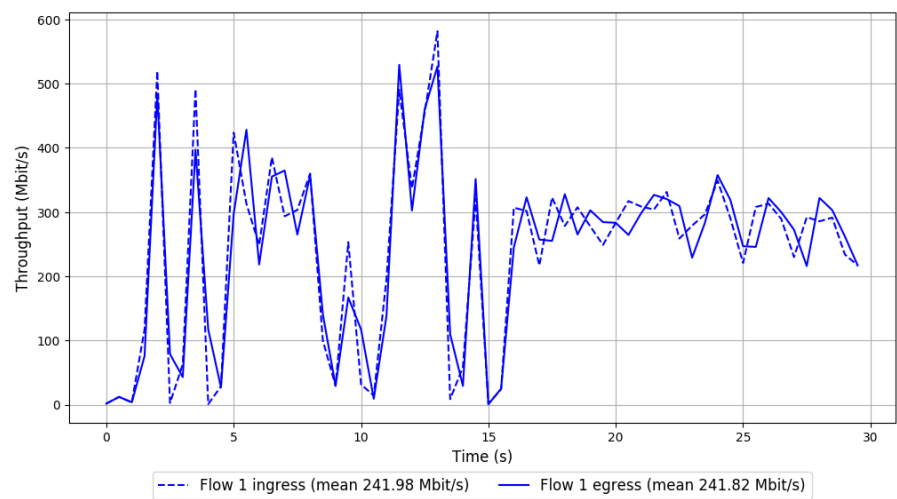
-- Flow 1:

Average throughput: 241.82 Mbit/s

95th percentile per-packet one-way delay: 133.686 ms

Loss rate: 0.06%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2017-11-21 05:09:42

End at: 2017-11-21 05:10:12

Below is generated by plot.py at 2017-11-21 07:20:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 299.41 Mbit/s

95th percentile per-packet one-way delay: 181.285 ms

Loss rate: 0.14%

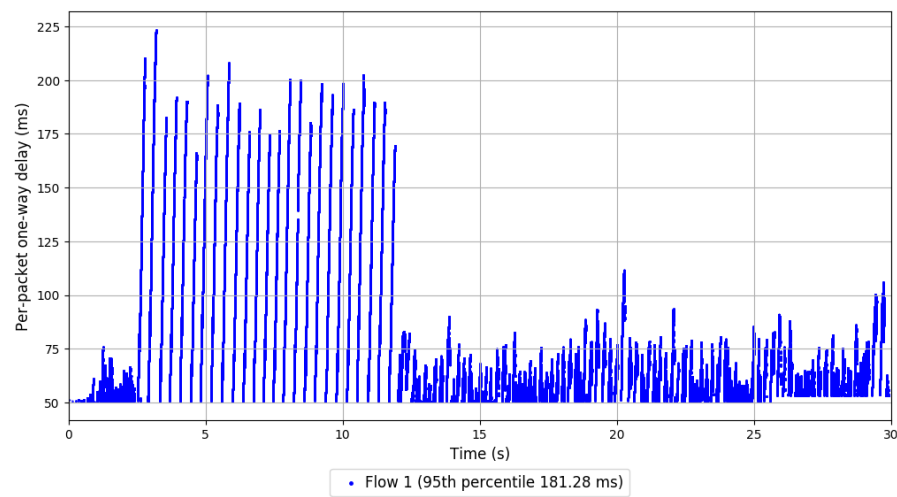
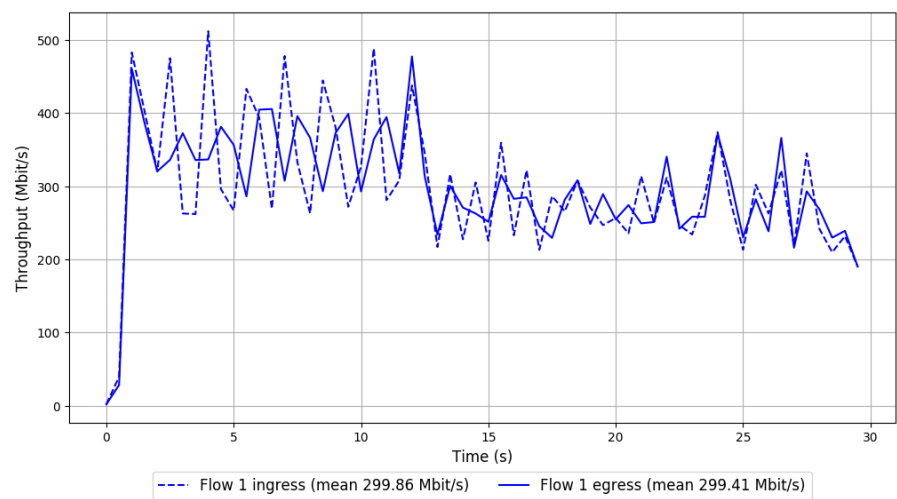
-- Flow 1:

Average throughput: 299.41 Mbit/s

95th percentile per-packet one-way delay: 181.285 ms

Loss rate: 0.14%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2017-11-21 05:19:58

End at: 2017-11-21 05:20:28

Below is generated by plot.py at 2017-11-21 07:20:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 254.19 Mbit/s

95th percentile per-packet one-way delay: 120.737 ms

Loss rate: 0.38%

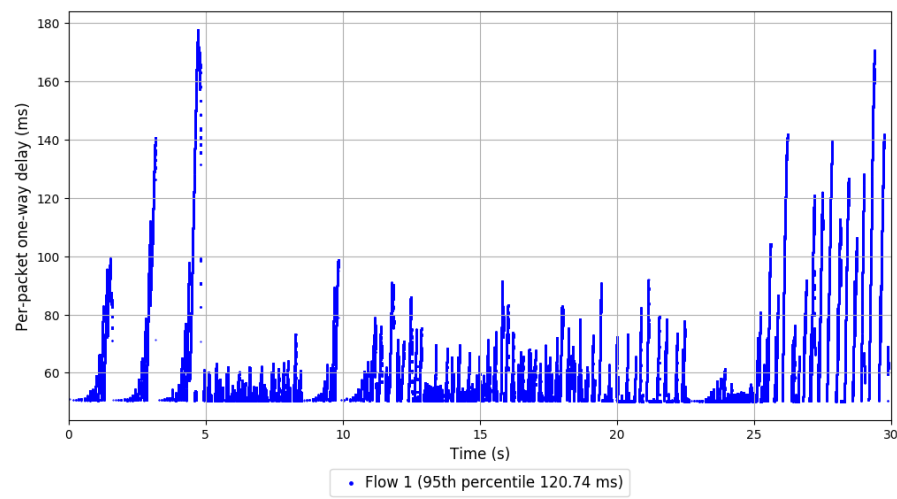
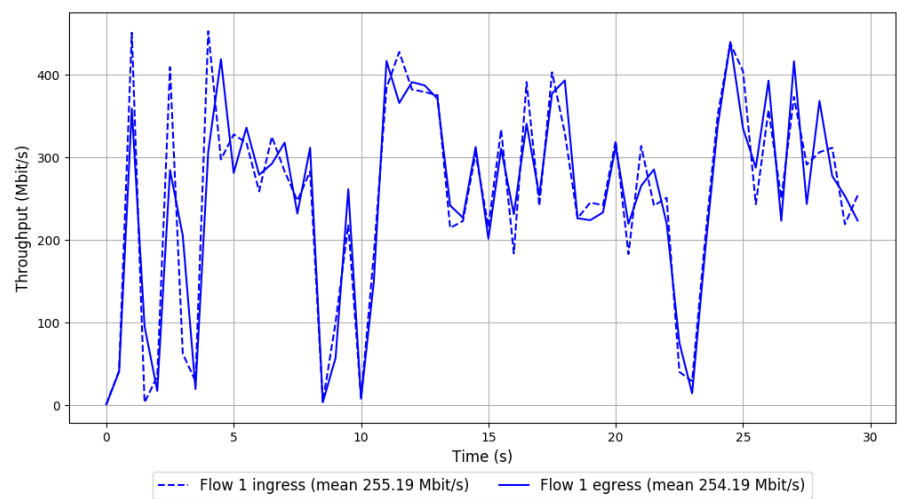
-- Flow 1:

Average throughput: 254.19 Mbit/s

95th percentile per-packet one-way delay: 120.737 ms

Loss rate: 0.38%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2017-11-21 05:30:14

End at: 2017-11-21 05:30:44

Below is generated by plot.py at 2017-11-21 07:21:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 296.58 Mbit/s

95th percentile per-packet one-way delay: 126.874 ms

Loss rate: 0.00%

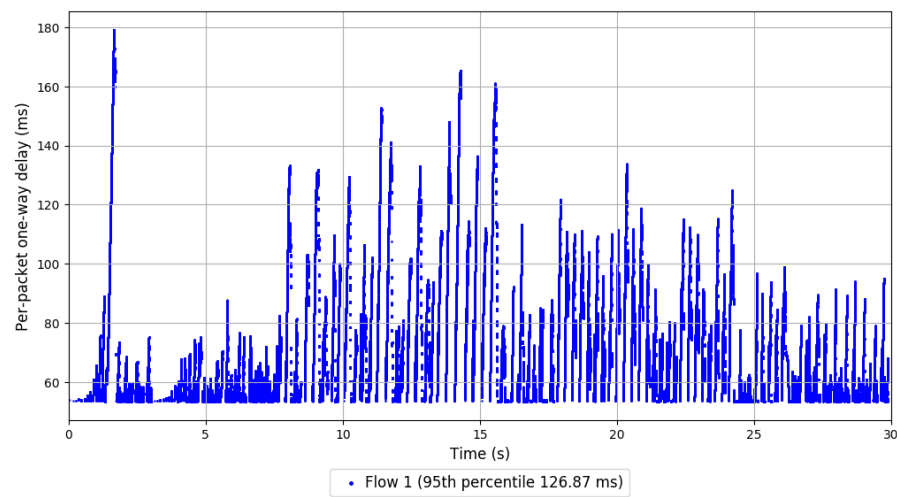
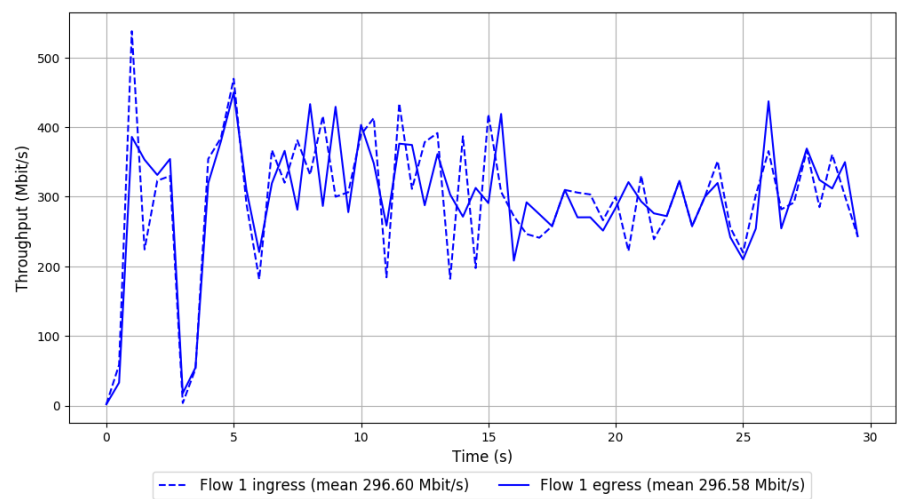
-- Flow 1:

Average throughput: 296.58 Mbit/s

95th percentile per-packet one-way delay: 126.874 ms

Loss rate: 0.00%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2017-11-21 05:40:31

End at: 2017-11-21 05:41:01

Below is generated by plot.py at 2017-11-21 07:21:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 255.25 Mbit/s

95th percentile per-packet one-way delay: 80.581 ms

Loss rate: 0.08%

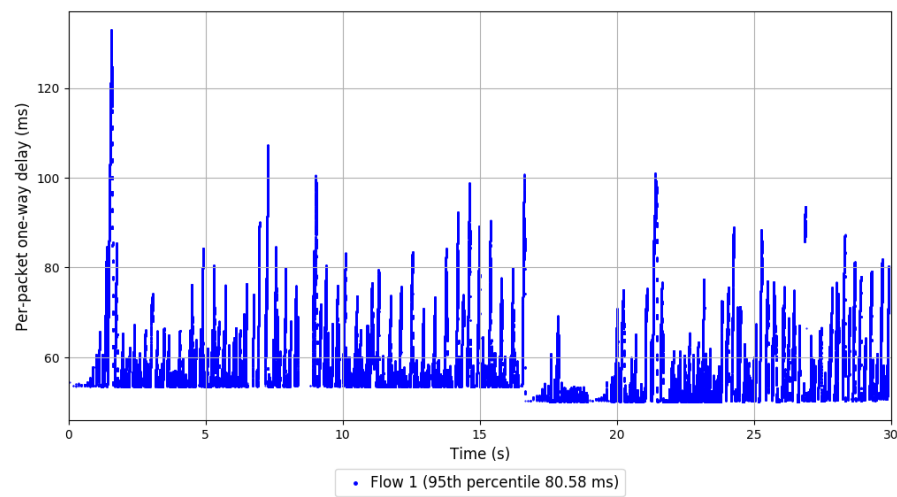
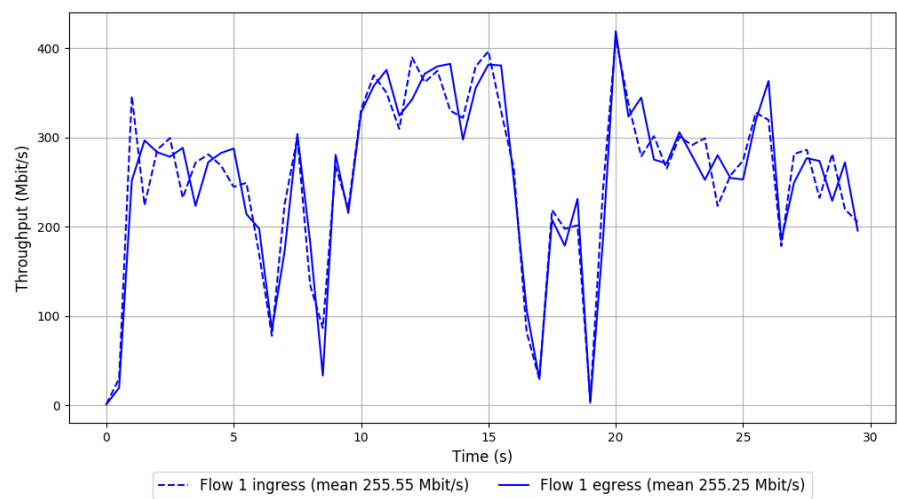
-- Flow 1:

Average throughput: 255.25 Mbit/s

95th percentile per-packet one-way delay: 80.581 ms

Loss rate: 0.08%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2017-11-21 05:51:02

End at: 2017-11-21 05:51:32

Below is generated by plot.py at 2017-11-21 07:21:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 232.65 Mbit/s

95th percentile per-packet one-way delay: 109.680 ms

Loss rate: 0.00%

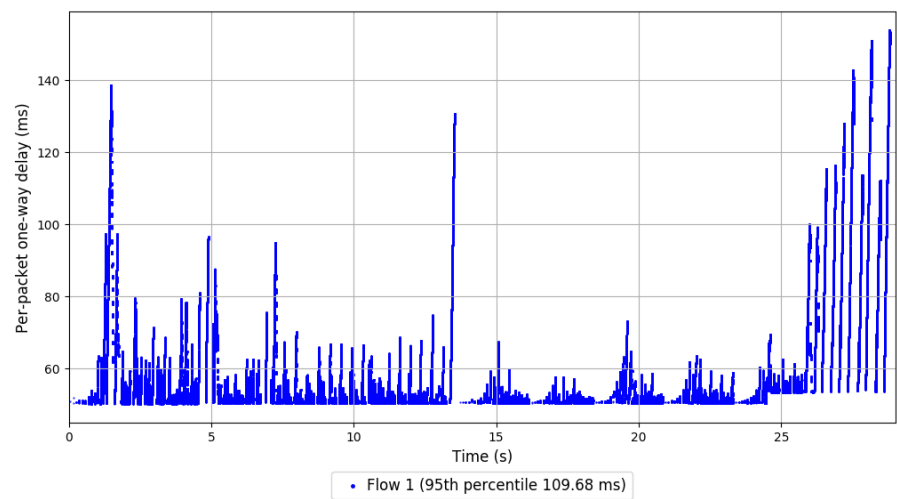
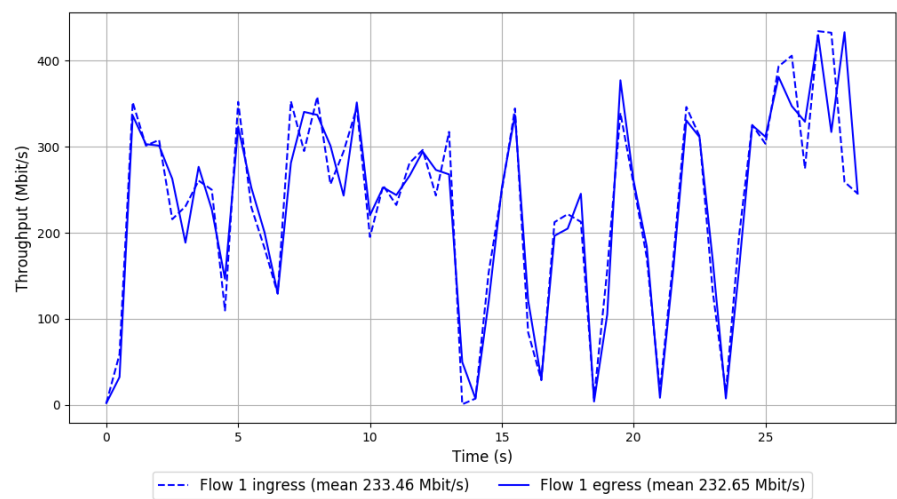
-- Flow 1:

Average throughput: 232.65 Mbit/s

95th percentile per-packet one-way delay: 109.680 ms

Loss rate: 0.00%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2017-11-21 06:01:38

End at: 2017-11-21 06:02:08

Below is generated by plot.py at 2017-11-21 07:21:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 241.25 Mbit/s

95th percentile per-packet one-way delay: 116.857 ms

Loss rate: 0.01%

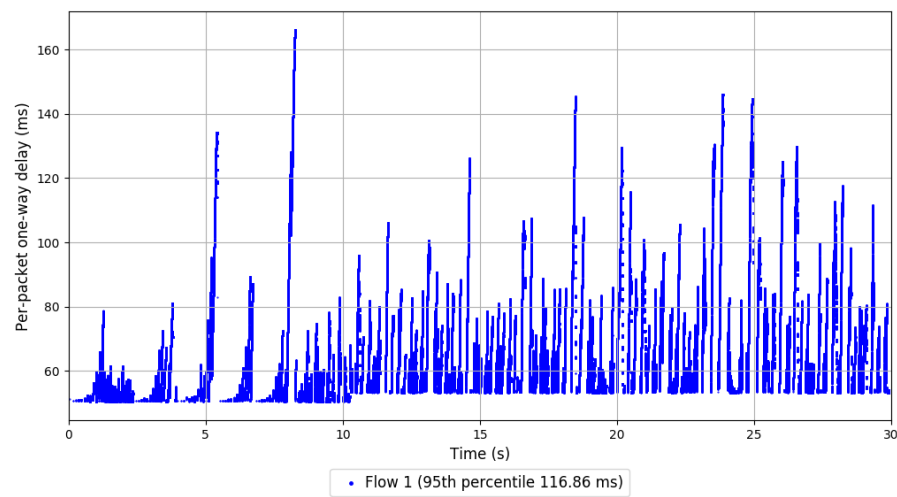
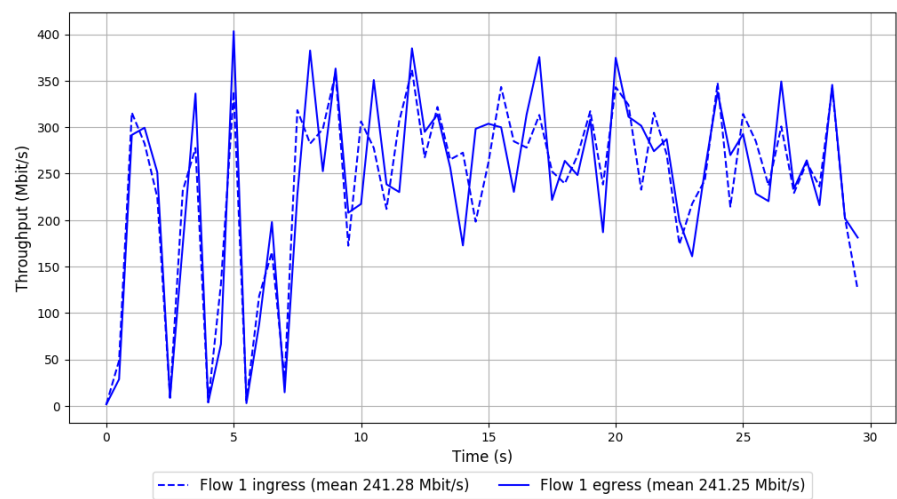
-- Flow 1:

Average throughput: 241.25 Mbit/s

95th percentile per-packet one-way delay: 116.857 ms

Loss rate: 0.01%

Run 10: Report of Verus — Data Link

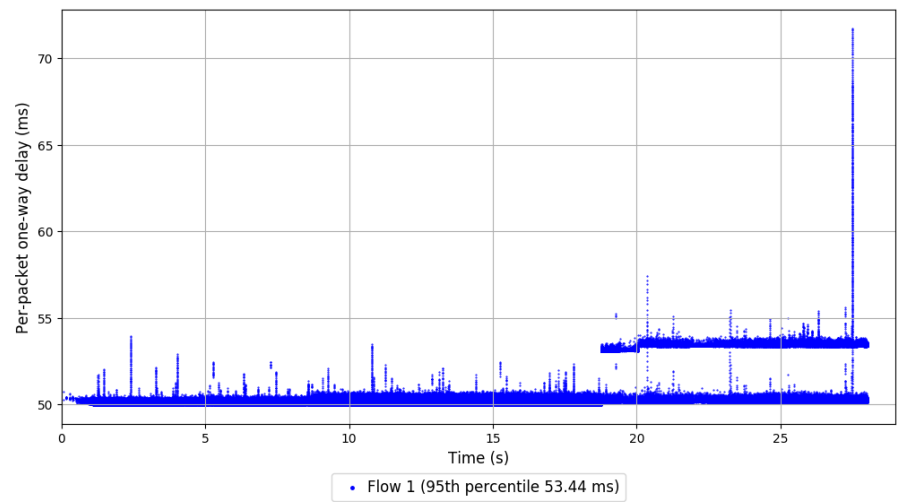
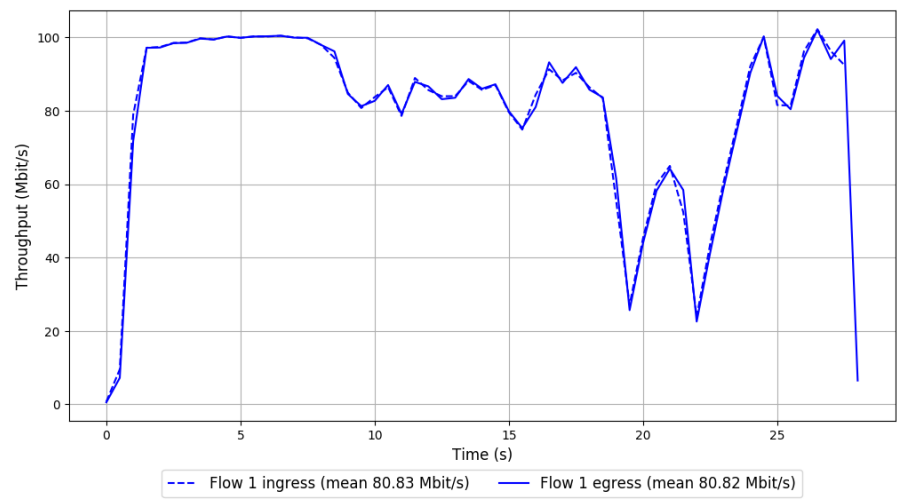


```
Run 1: Statistics of Copa

Start at: 2017-11-21 04:22:17
End at: 2017-11-21 04:22:47

# Below is generated by plot.py at 2017-11-21 07:21:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 80.82 Mbit/s
95th percentile per-packet one-way delay: 53.442 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 80.82 Mbit/s
95th percentile per-packet one-way delay: 53.442 ms
Loss rate: 0.00%
```

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2017-11-21 04:32:29

End at: 2017-11-21 04:32:59

Below is generated by plot.py at 2017-11-21 07:21:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 76.92 Mbit/s

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

Loss rate: 0.00%

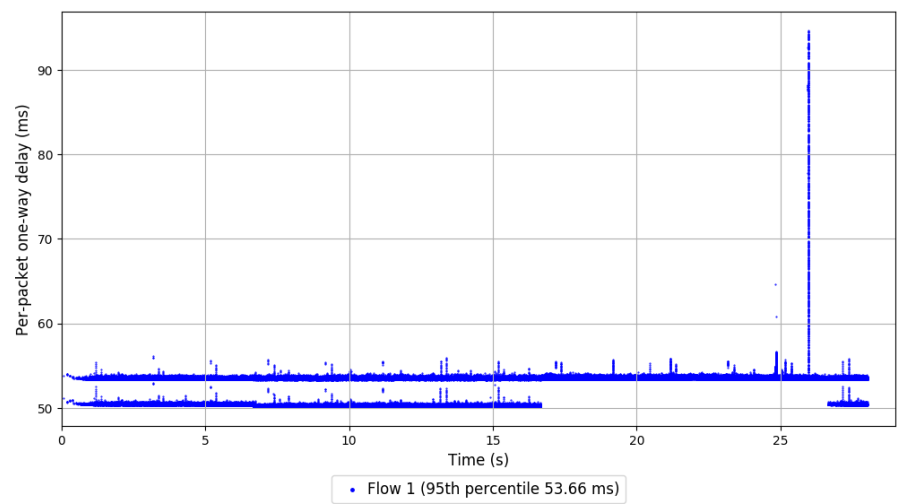
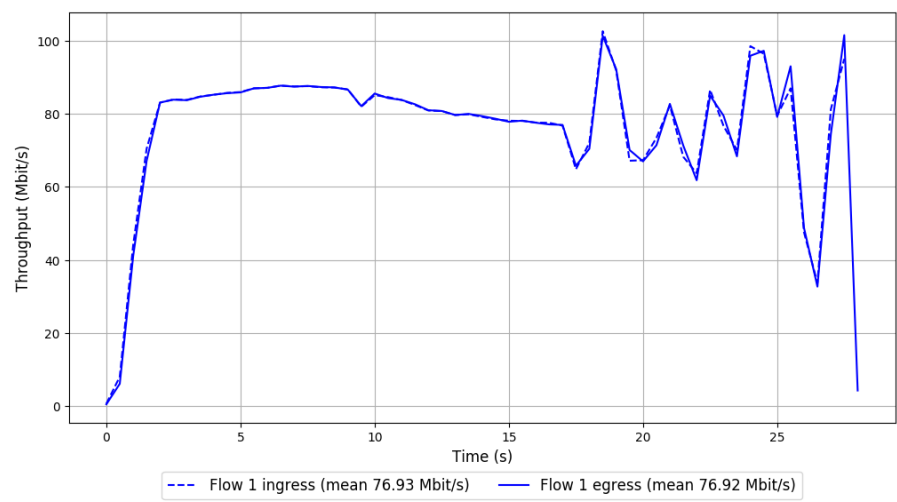
-- Flow 1:

Average throughput: 76.92 Mbit/s

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

Loss rate: 0.00%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2017-11-21 04:43:03

End at: 2017-11-21 04:43:33

Below is generated by plot.py at 2017-11-21 07:22:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.74 Mbit/s

95th percentile per-packet one-way delay: 53.482 ms

Loss rate: 0.00%

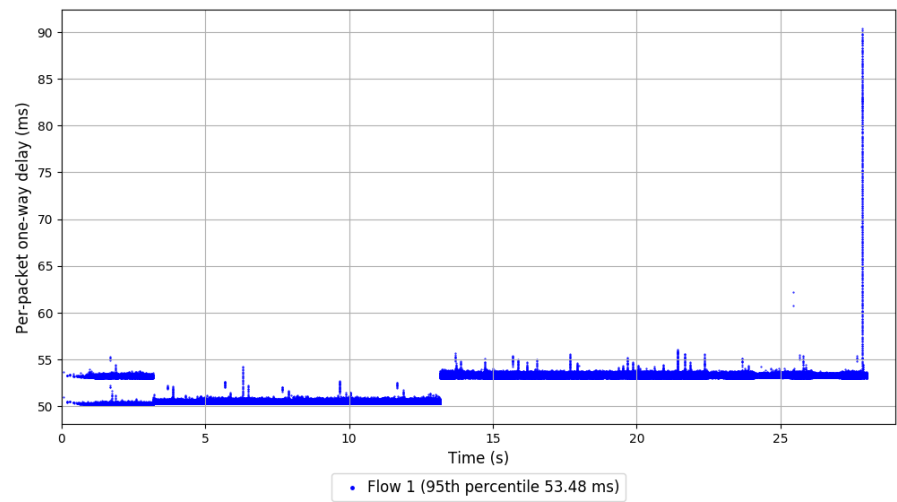
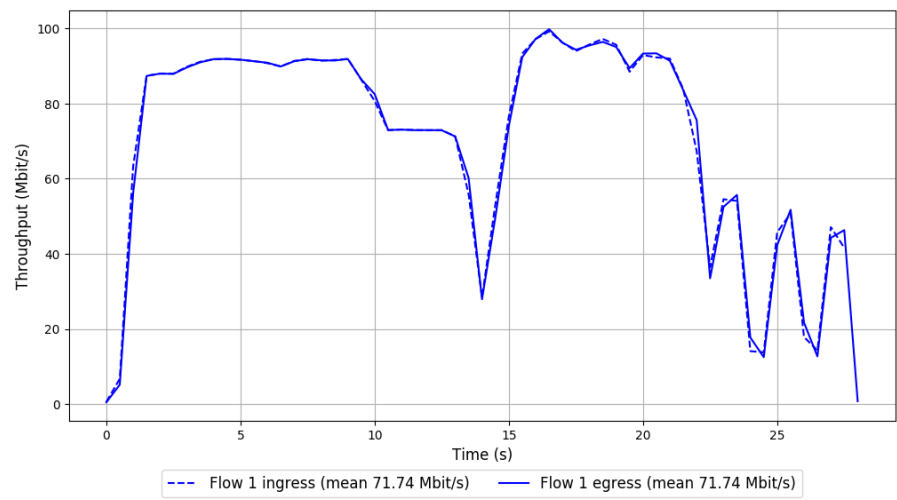
-- Flow 1:

Average throughput: 71.74 Mbit/s

95th percentile per-packet one-way delay: 53.482 ms

Loss rate: 0.00%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2017-11-21 04:53:30

End at: 2017-11-21 04:54:00

Below is generated by plot.py at 2017-11-21 07:22:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.05 Mbit/s

95th percentile per-packet one-way delay: 53.178 ms

Loss rate: 0.00%

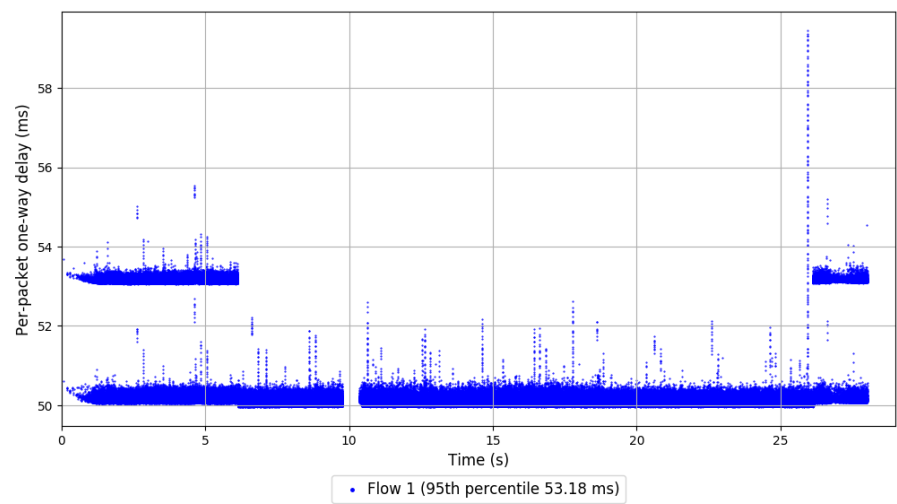
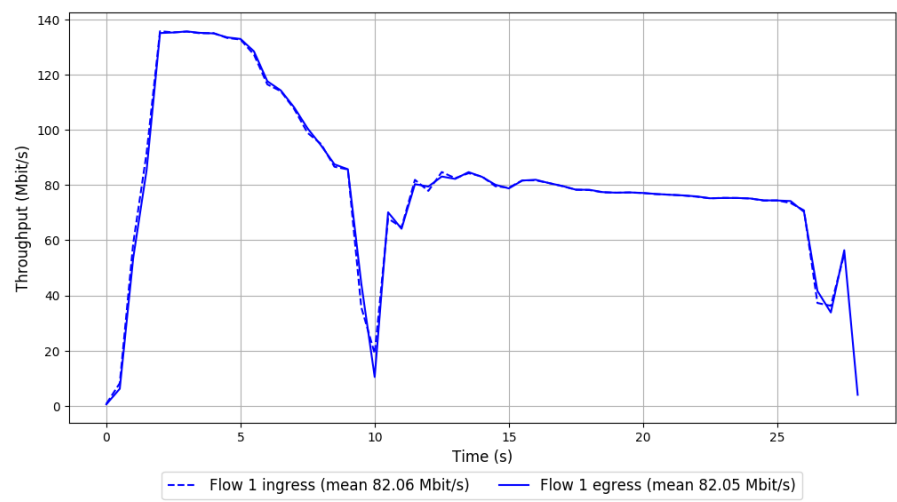
-- Flow 1:

Average throughput: 82.05 Mbit/s

95th percentile per-packet one-way delay: 53.178 ms

Loss rate: 0.00%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2017-11-21 05:03:51

End at: 2017-11-21 05:04:21

Below is generated by plot.py at 2017-11-21 07:22:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 80.45 Mbit/s

95th percentile per-packet one-way delay: 53.529 ms

Loss rate: 0.00%

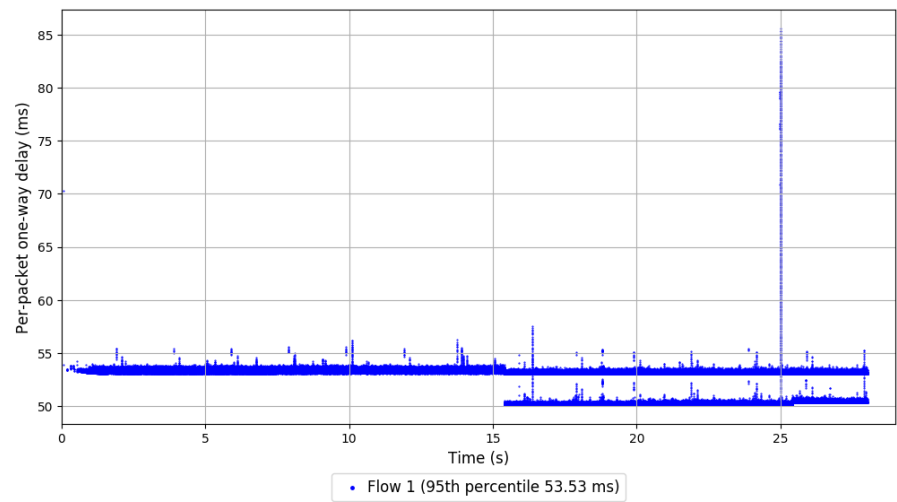
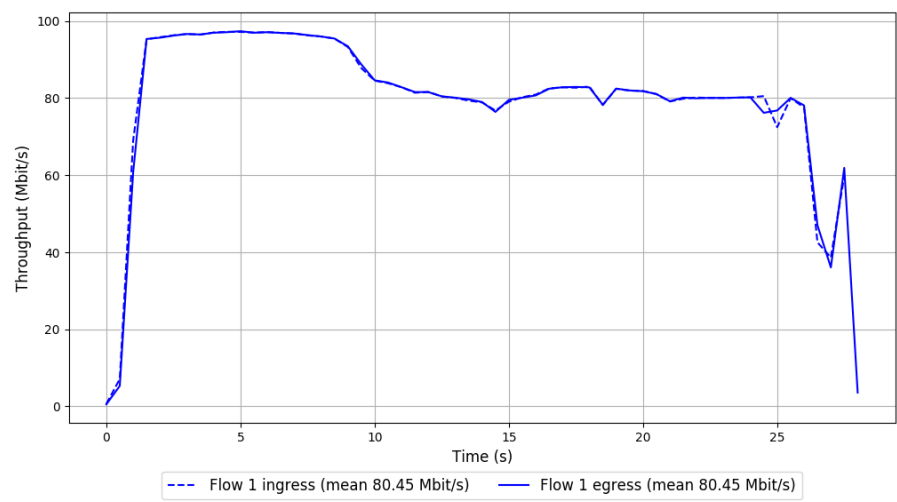
-- Flow 1:

Average throughput: 80.45 Mbit/s

95th percentile per-packet one-way delay: 53.529 ms

Loss rate: 0.00%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2017-11-21 05:14:05

End at: 2017-11-21 05:14:35

Below is generated by plot.py at 2017-11-21 07:22:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 65.10 Mbit/s

95th percentile per-packet one-way delay: 53.553 ms

Loss rate: 0.00%

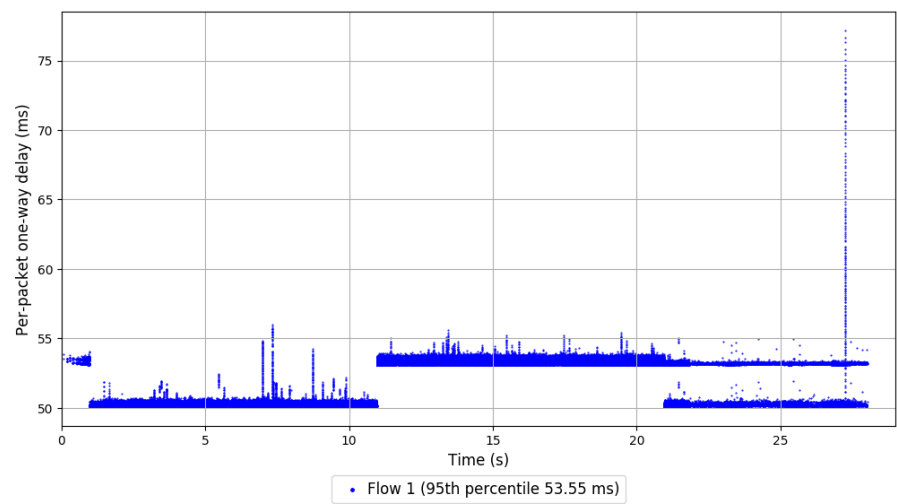
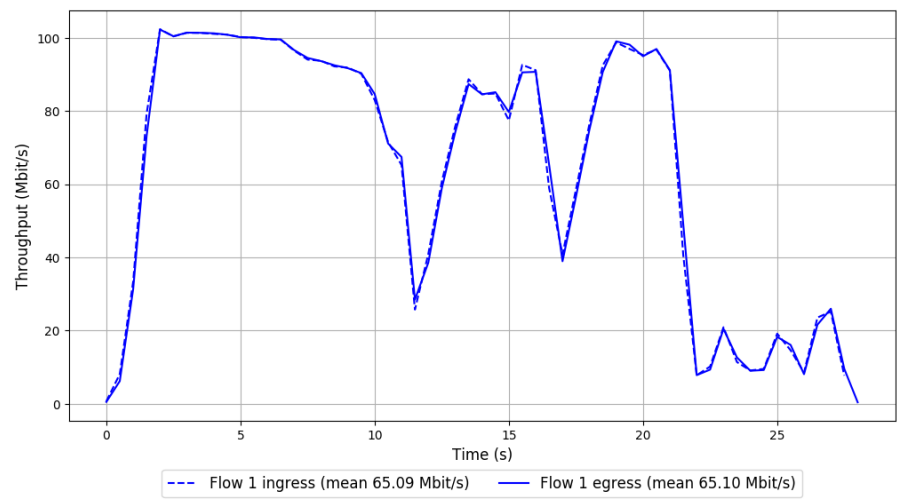
-- Flow 1:

Average throughput: 65.10 Mbit/s

95th percentile per-packet one-way delay: 53.553 ms

Loss rate: 0.00%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2017-11-21 05:24:19

End at: 2017-11-21 05:24:49

Below is generated by plot.py at 2017-11-21 07:23:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.77 Mbit/s

95th percentile per-packet one-way delay: 53.652 ms

Loss rate: 0.00%

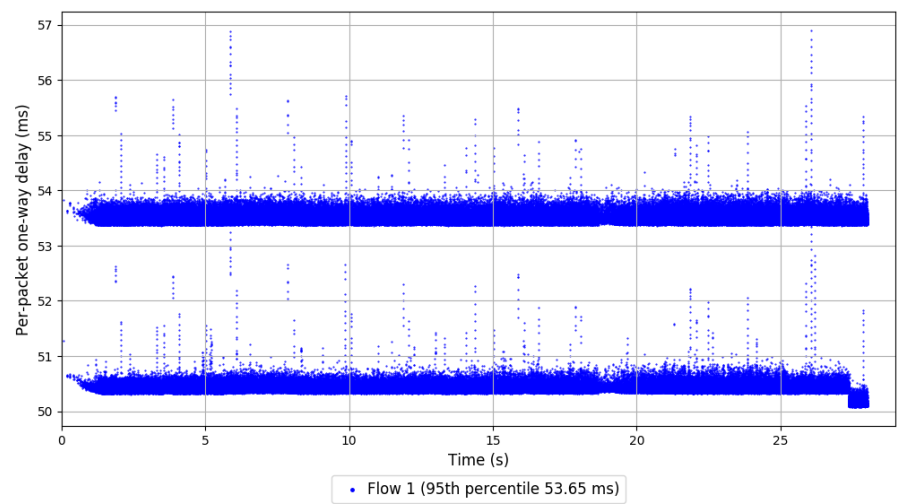
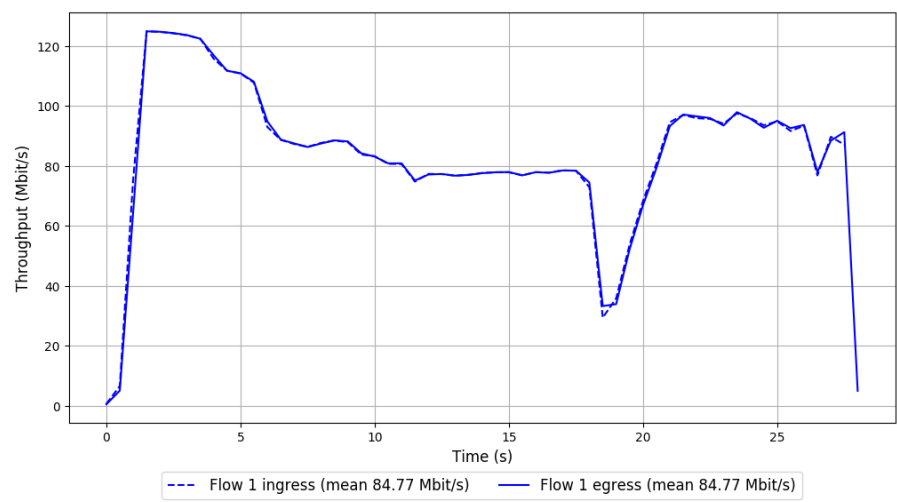
-- Flow 1:

Average throughput: 84.77 Mbit/s

95th percentile per-packet one-way delay: 53.652 ms

Loss rate: 0.00%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2017-11-21 05:34:35

End at: 2017-11-21 05:35:05

Below is generated by plot.py at 2017-11-21 07:23:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 68.77 Mbit/s

95th percentile per-packet one-way delay: 53.501 ms

Loss rate: 0.00%

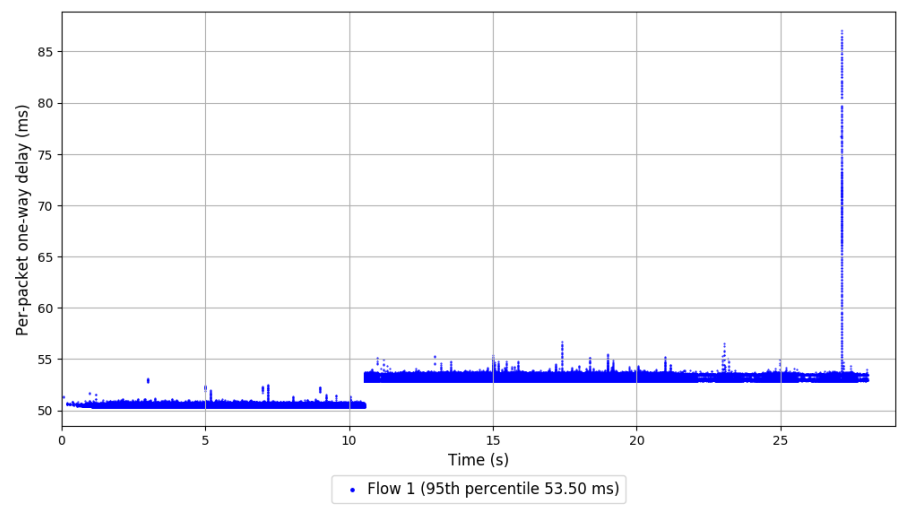
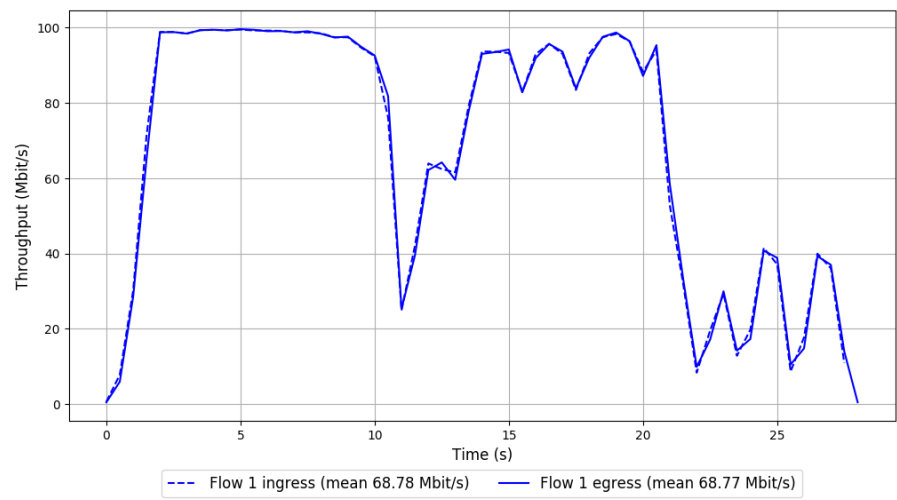
-- Flow 1:

Average throughput: 68.77 Mbit/s

95th percentile per-packet one-way delay: 53.501 ms

Loss rate: 0.00%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2017-11-21 05:45:12

End at: 2017-11-21 05:45:42

Below is generated by plot.py at 2017-11-21 07:23:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.48 Mbit/s

95th percentile per-packet one-way delay: 53.116 ms

Loss rate: 0.00%

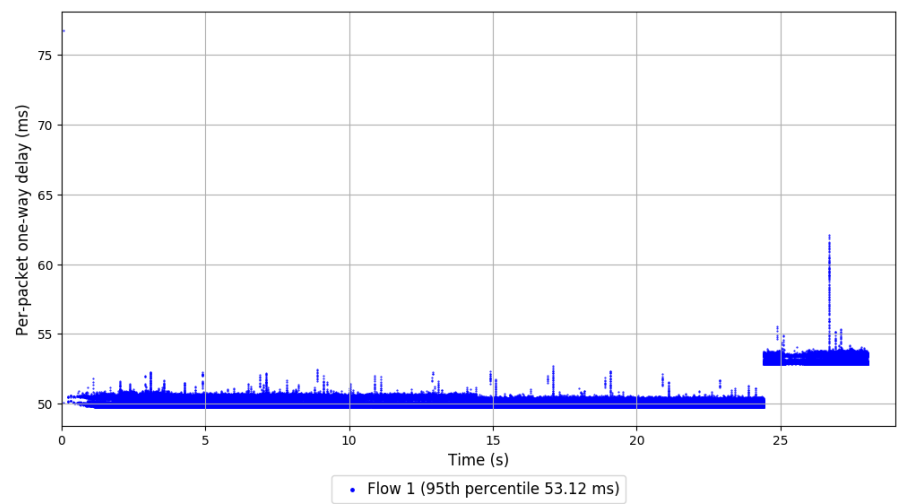
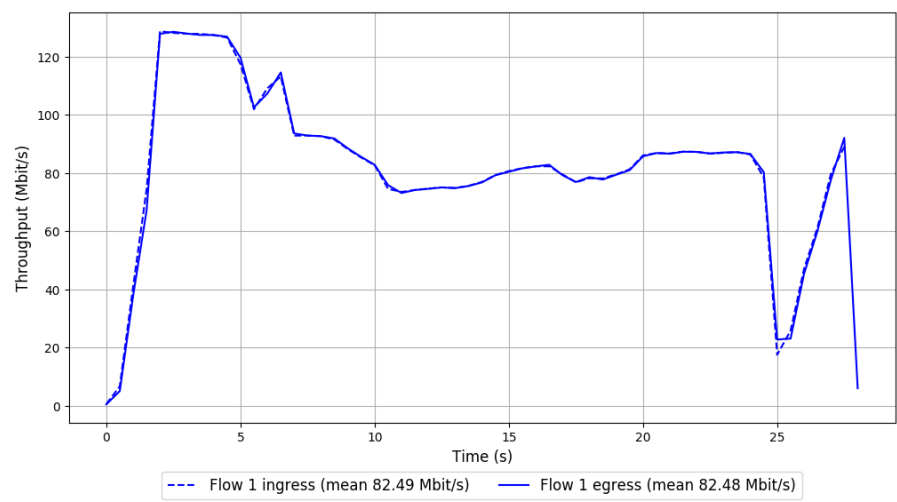
-- Flow 1:

Average throughput: 82.48 Mbit/s

95th percentile per-packet one-way delay: 53.116 ms

Loss rate: 0.00%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2017-11-21 05:55:42

End at: 2017-11-21 05:56:12

Below is generated by plot.py at 2017-11-21 07:23:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.18 Mbit/s

95th percentile per-packet one-way delay: 53.203 ms

Loss rate: 0.00%

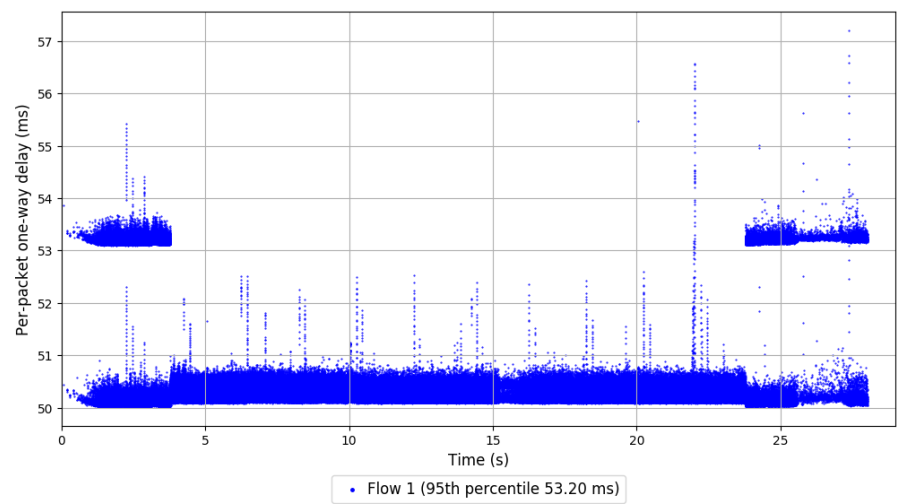
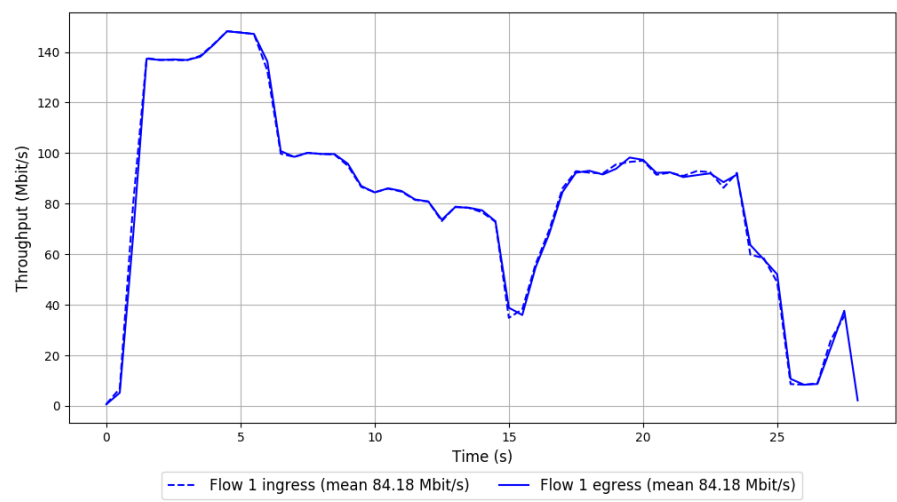
-- Flow 1:

Average throughput: 84.18 Mbit/s

95th percentile per-packet one-way delay: 53.203 ms

Loss rate: 0.00%

Run 10: Report of Copa — Data Link

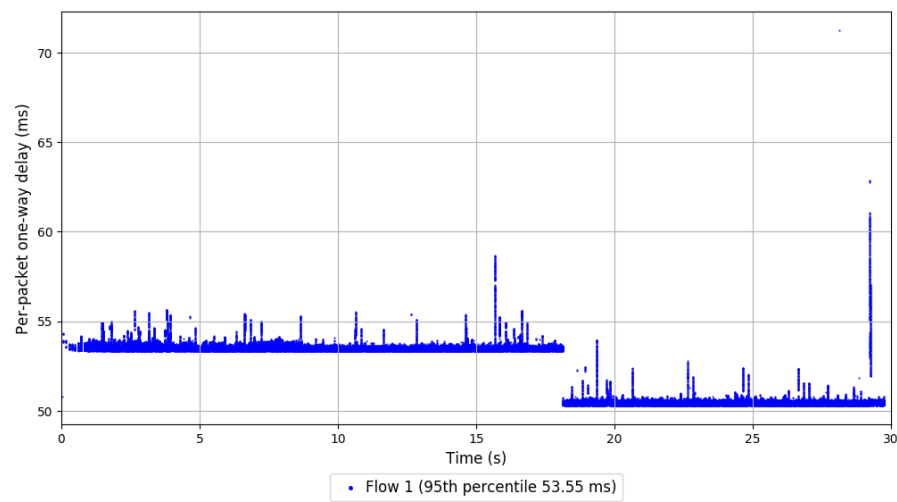
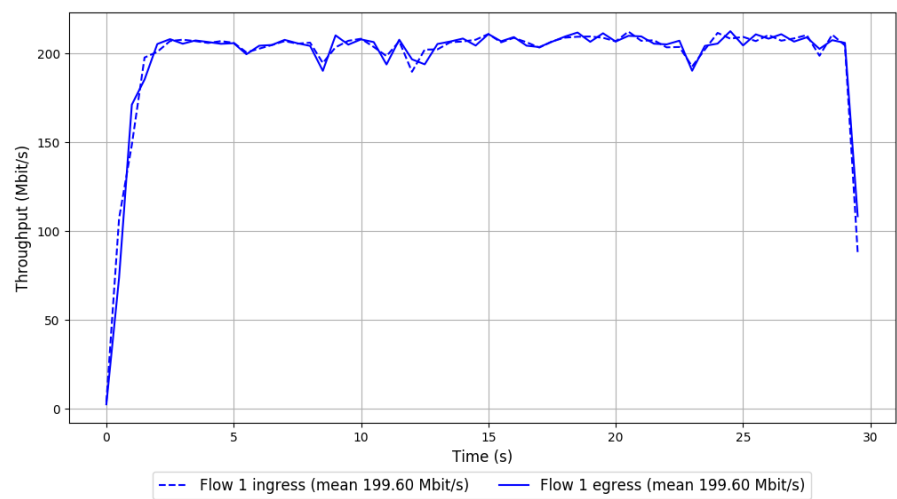


```
Run 1: Statistics of Indigo

Start at: 2017-11-21 04:27:20
End at: 2017-11-21 04:27:50

# Below is generated by plot.py at 2017-11-21 07:25:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 199.60 Mbit/s
95th percentile per-packet one-way delay: 53.545 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 199.60 Mbit/s
95th percentile per-packet one-way delay: 53.545 ms
Loss rate: 0.00%
```


Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2017-11-21 04:37:33

End at: 2017-11-21 04:38:03

Below is generated by plot.py at 2017-11-21 07:25:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 198.26 Mbit/s

95th percentile per-packet one-way delay: 53.572 ms

Loss rate: 0.00%

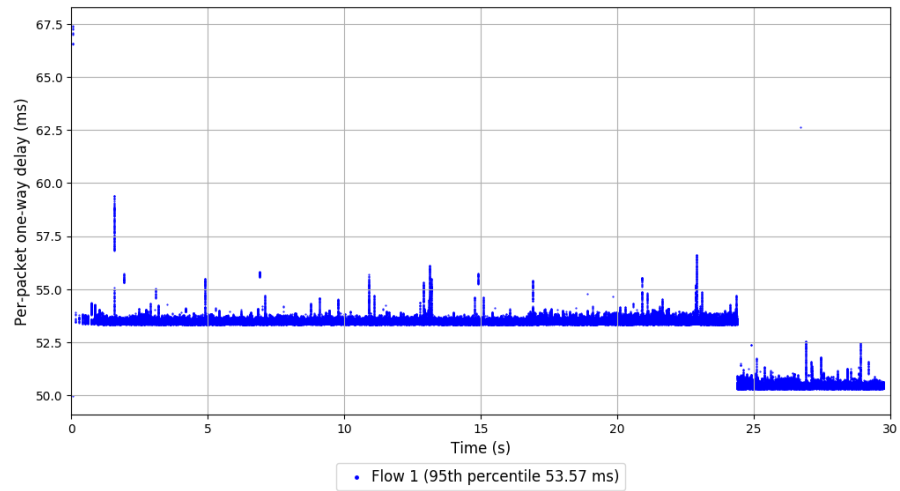
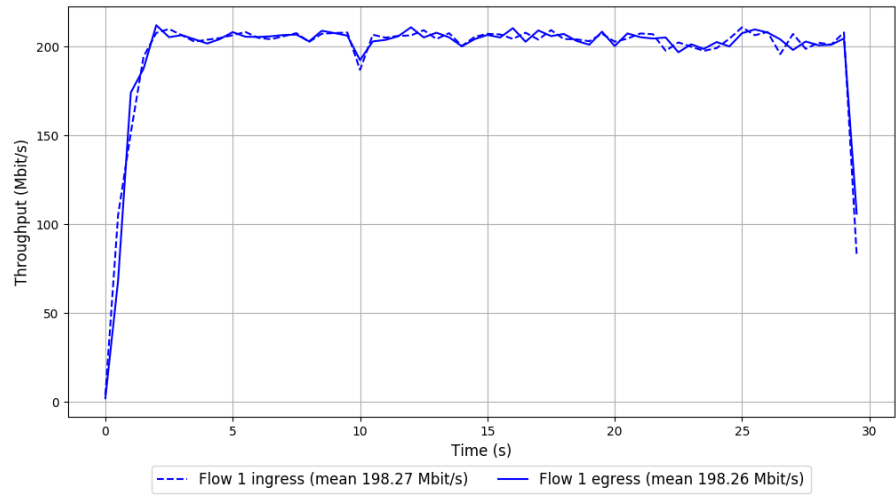
-- Flow 1:

Average throughput: 198.26 Mbit/s

95th percentile per-packet one-way delay: 53.572 ms

Loss rate: 0.00%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2017-11-21 04:48:08

End at: 2017-11-21 04:48:38

Below is generated by plot.py at 2017-11-21 07:25:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 195.00 Mbit/s

95th percentile per-packet one-way delay: 53.551 ms

Loss rate: 0.00%

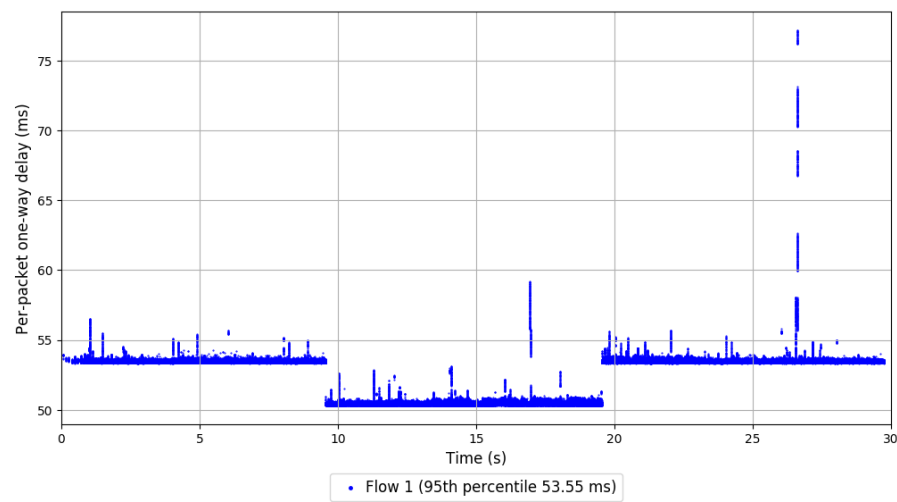
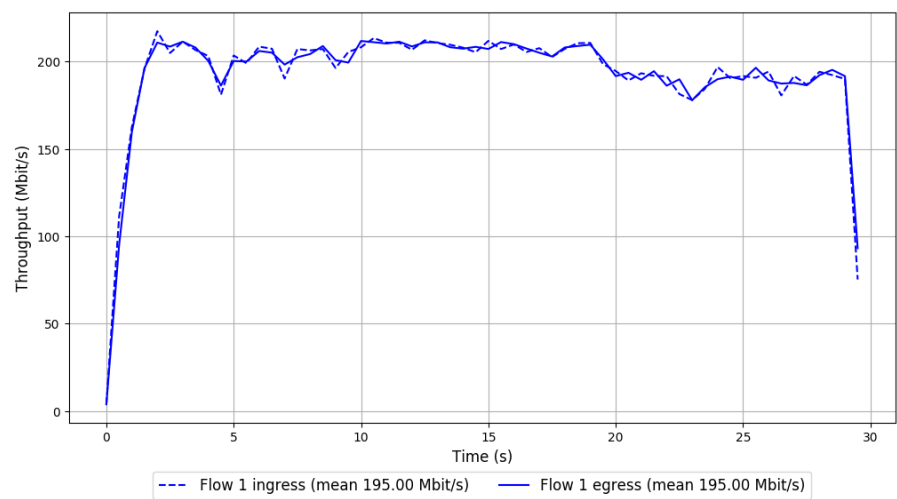
-- Flow 1:

Average throughput: 195.00 Mbit/s

95th percentile per-packet one-way delay: 53.551 ms

Loss rate: 0.00%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2017-11-21 04:58:34

End at: 2017-11-21 04:59:04

Below is generated by plot.py at 2017-11-21 07:25:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 193.91 Mbit/s

95th percentile per-packet one-way delay: 53.266 ms

Loss rate: 0.00%

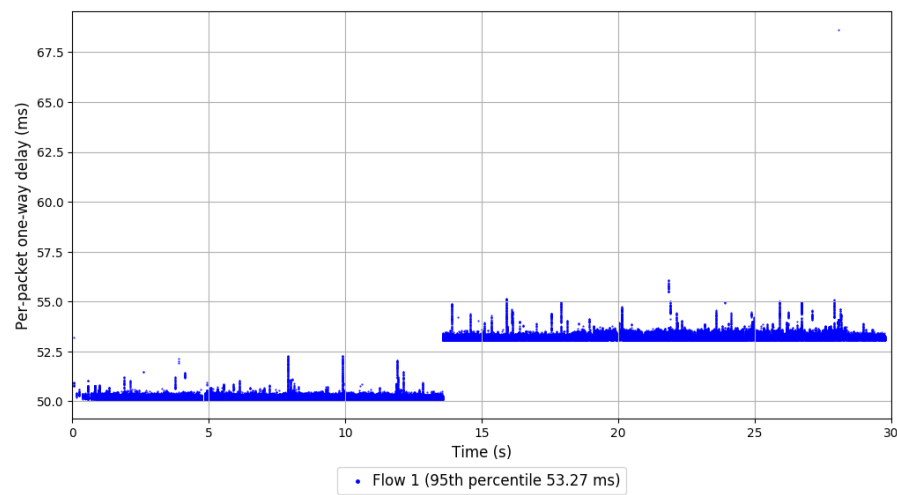
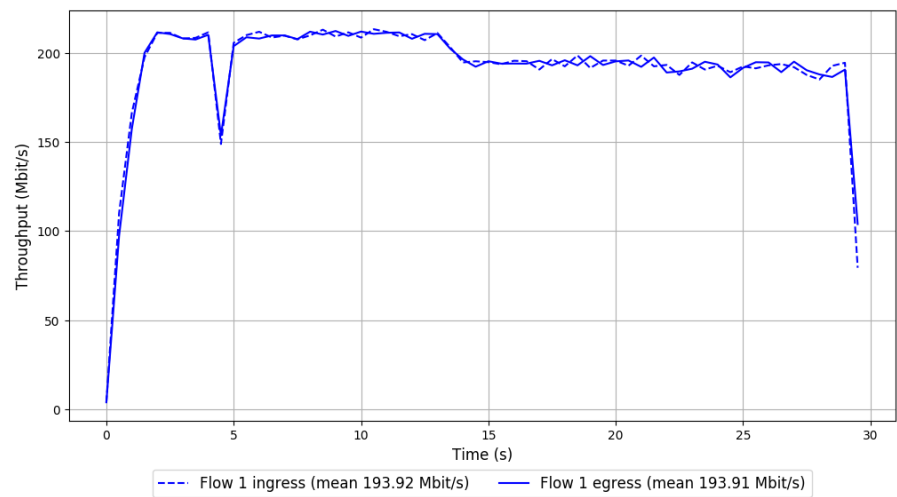
-- Flow 1:

Average throughput: 193.91 Mbit/s

95th percentile per-packet one-way delay: 53.266 ms

Loss rate: 0.00%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2017-11-21 05:08:52

End at: 2017-11-21 05:09:22

Below is generated by plot.py at 2017-11-21 07:26:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 196.10 Mbit/s

95th percentile per-packet one-way delay: 53.199 ms

Loss rate: 0.00%

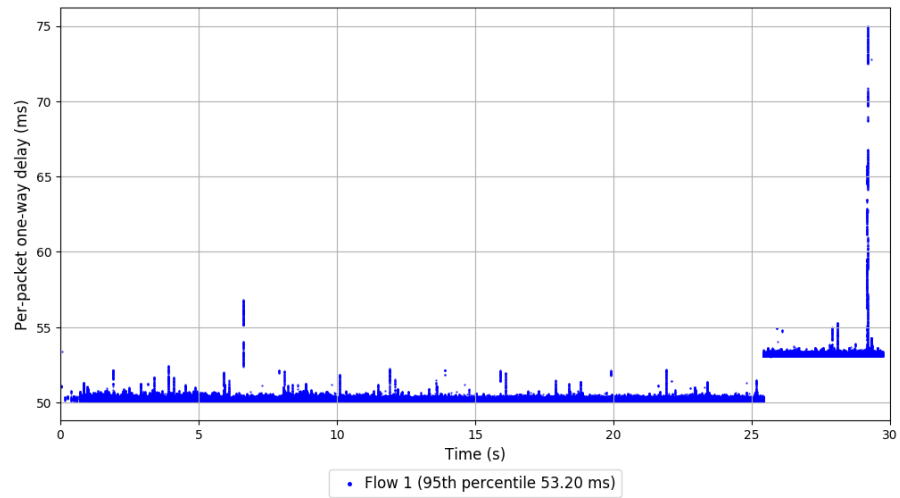
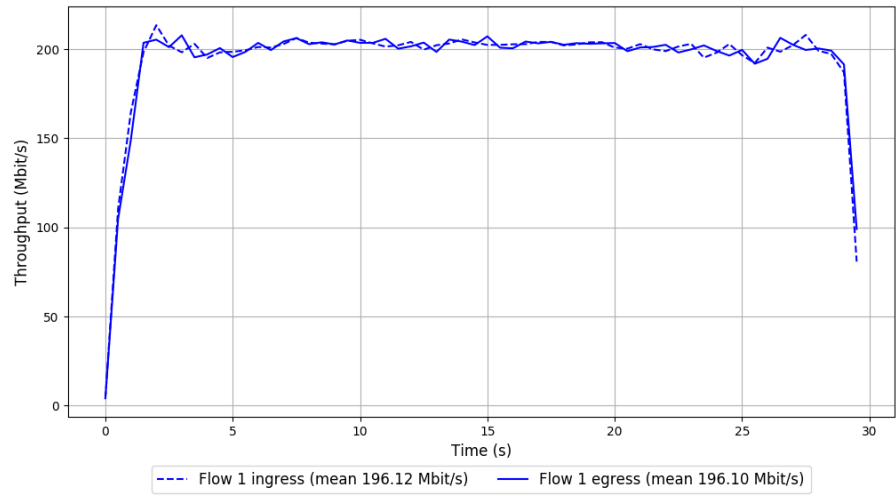
-- Flow 1:

Average throughput: 196.10 Mbit/s

95th percentile per-packet one-way delay: 53.199 ms

Loss rate: 0.00%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2017-11-21 05:19:08

End at: 2017-11-21 05:19:38

Below is generated by plot.py at 2017-11-21 07:26:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 195.25 Mbit/s

95th percentile per-packet one-way delay: 53.315 ms

Loss rate: 0.00%

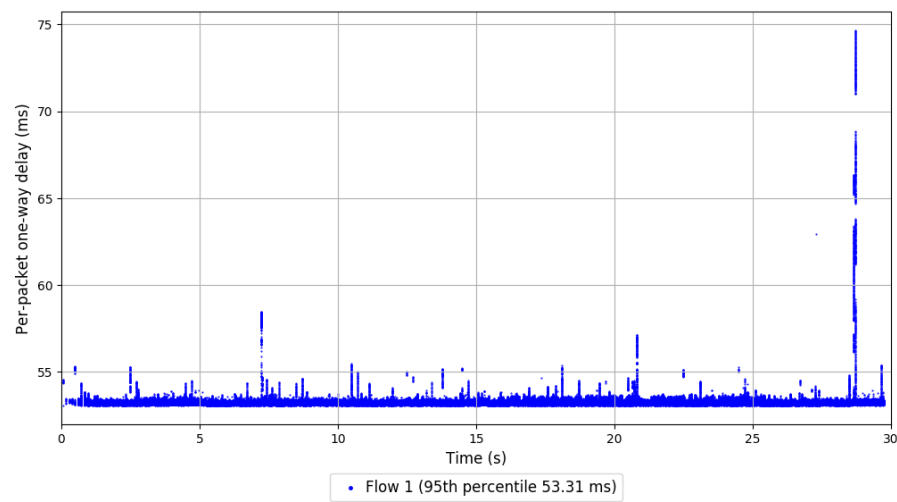
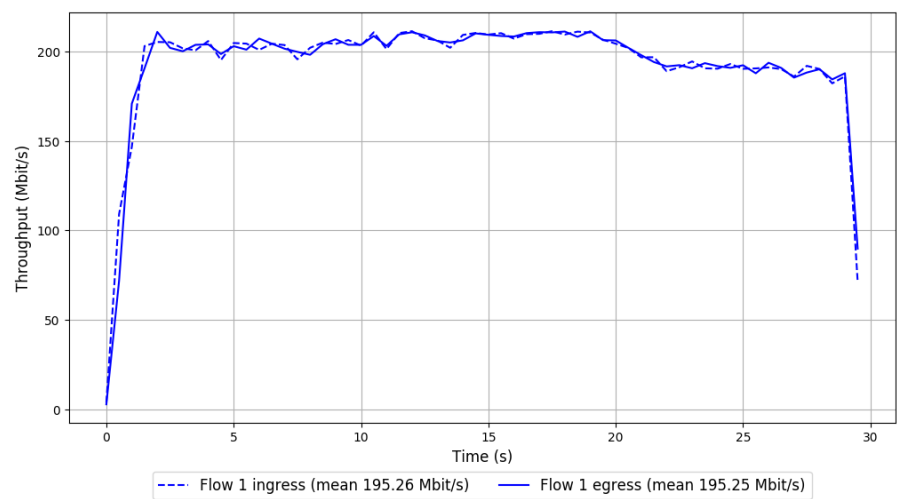
-- Flow 1:

Average throughput: 195.25 Mbit/s

95th percentile per-packet one-way delay: 53.315 ms

Loss rate: 0.00%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2017-11-21 05:29:24

End at: 2017-11-21 05:29:54

Below is generated by plot.py at 2017-11-21 07:26:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 184.75 Mbit/s

95th percentile per-packet one-way delay: 53.585 ms

Loss rate: 0.00%

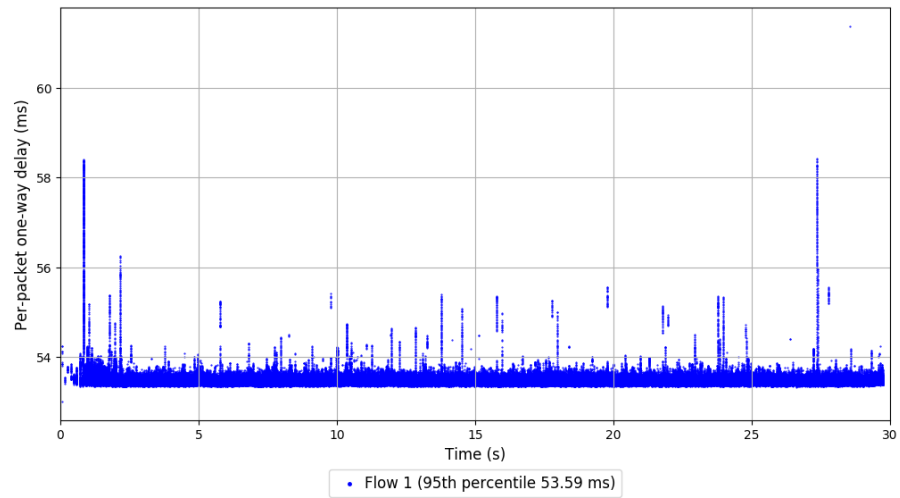
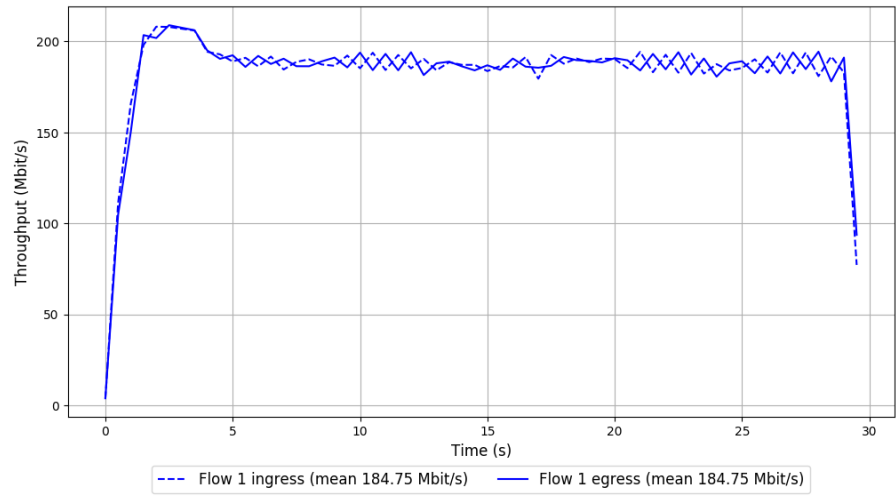
-- Flow 1:

Average throughput: 184.75 Mbit/s

95th percentile per-packet one-way delay: 53.585 ms

Loss rate: 0.00%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2017-11-21 05:39:41

End at: 2017-11-21 05:40:11

Below is generated by plot.py at 2017-11-21 07:27:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 196.45 Mbit/s

95th percentile per-packet one-way delay: 53.588 ms

Loss rate: 0.00%

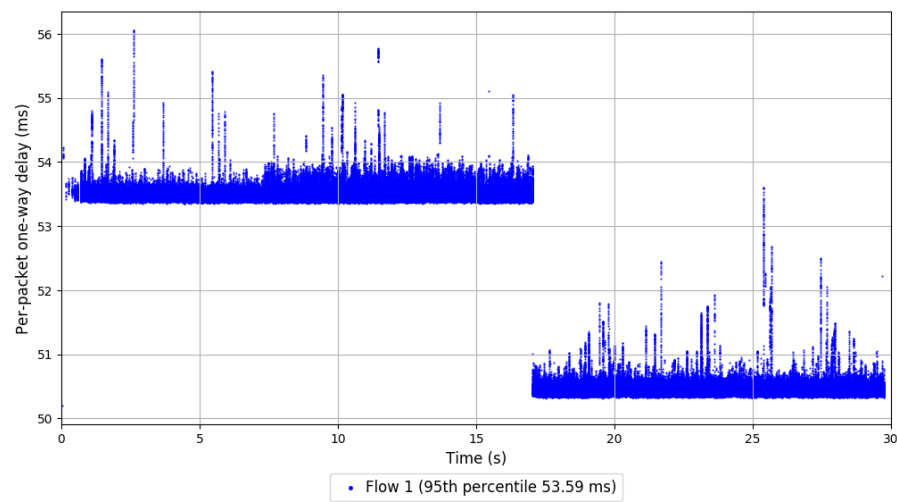
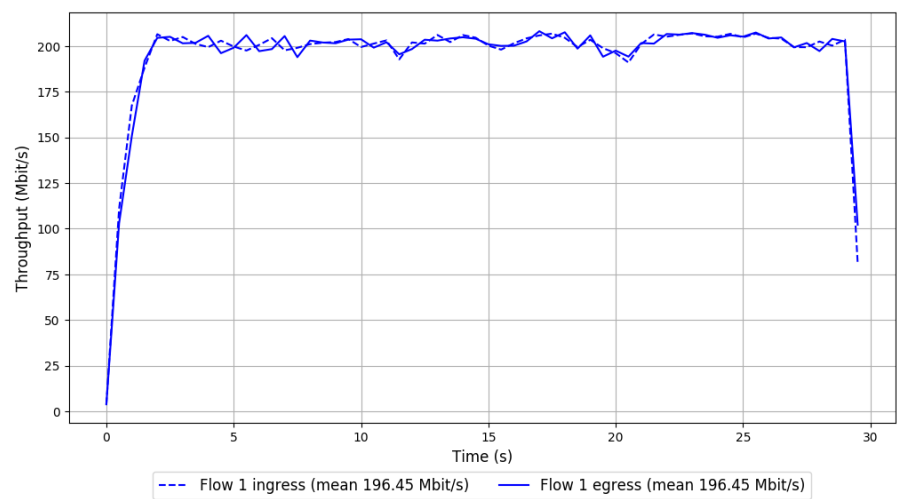
-- Flow 1:

Average throughput: 196.45 Mbit/s

95th percentile per-packet one-way delay: 53.588 ms

Loss rate: 0.00%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2017-11-21 05:50:13

End at: 2017-11-21 05:50:43

Below is generated by plot.py at 2017-11-21 07:28:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 183.96 Mbit/s

95th percentile per-packet one-way delay: 53.603 ms

Loss rate: 0.00%

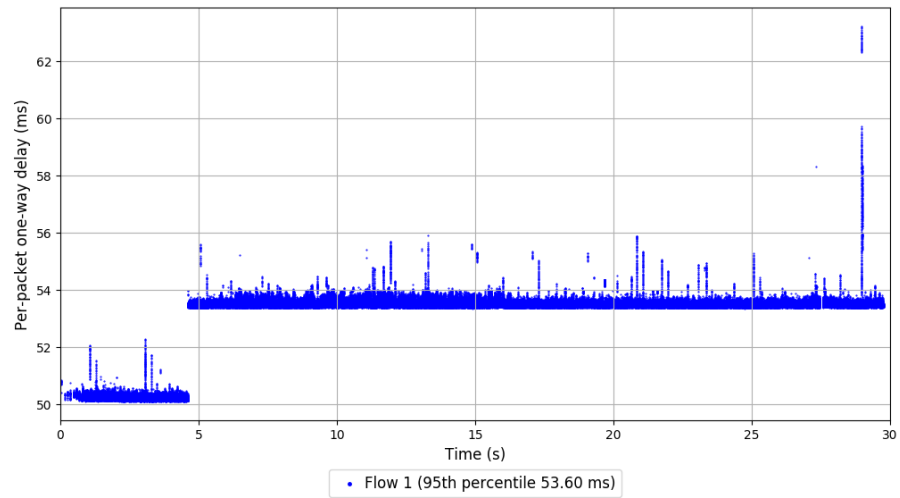
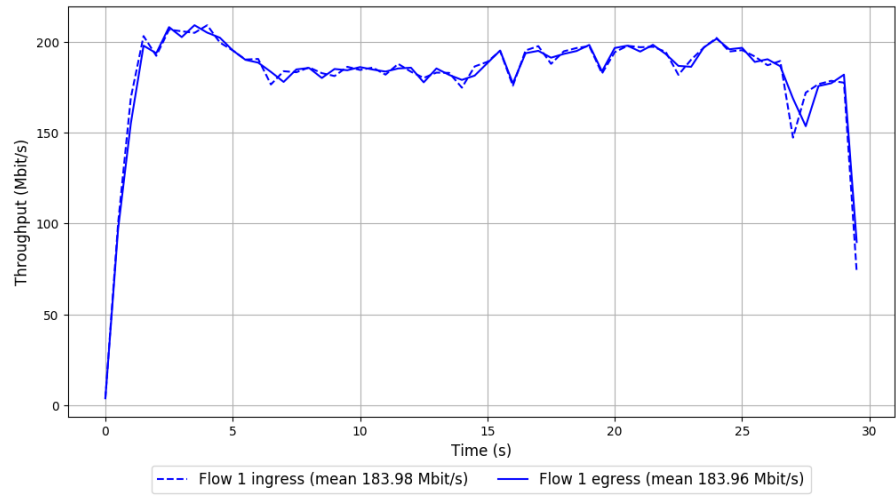
-- Flow 1:

Average throughput: 183.96 Mbit/s

95th percentile per-packet one-way delay: 53.603 ms

Loss rate: 0.00%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2017-11-21 06:00:47

End at: 2017-11-21 06:01:17

Below is generated by plot.py at 2017-11-21 07:29:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 202.35 Mbit/s

95th percentile per-packet one-way delay: 53.297 ms

Loss rate: 0.00%

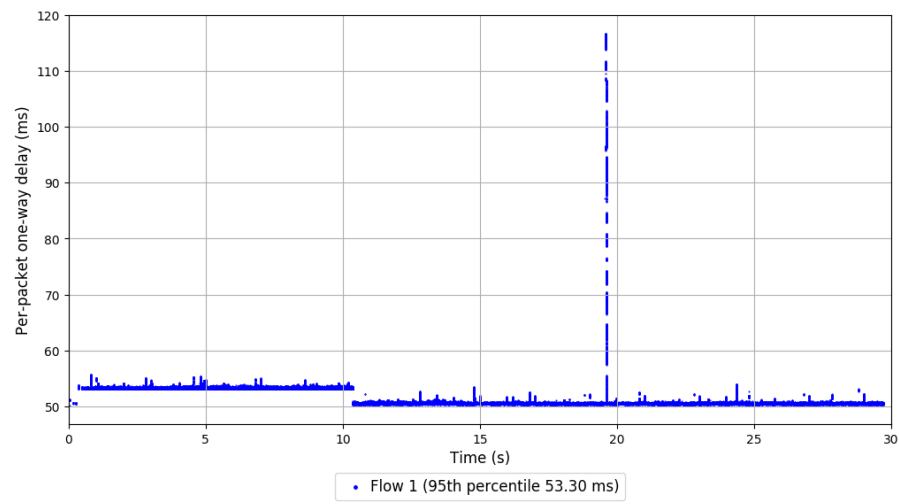
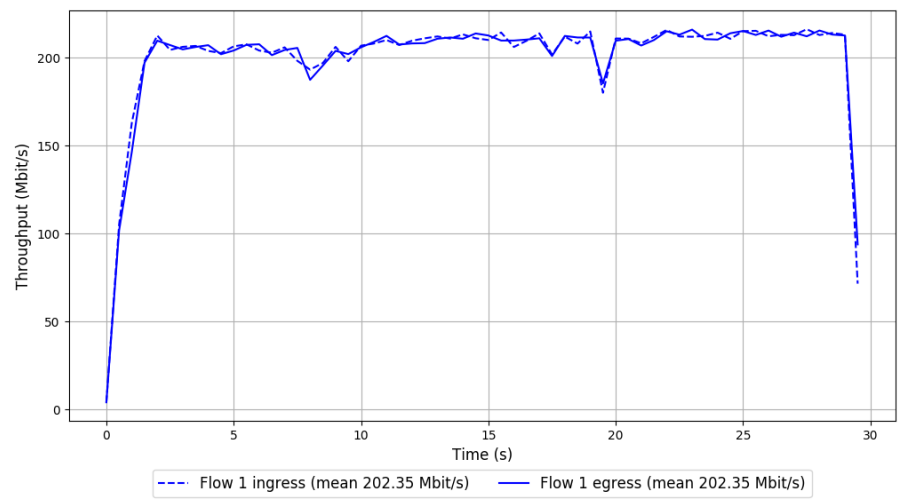
-- Flow 1:

Average throughput: 202.35 Mbit/s

95th percentile per-packet one-way delay: 53.297 ms

Loss rate: 0.00%

Run 10: Report of Indigo — Data Link

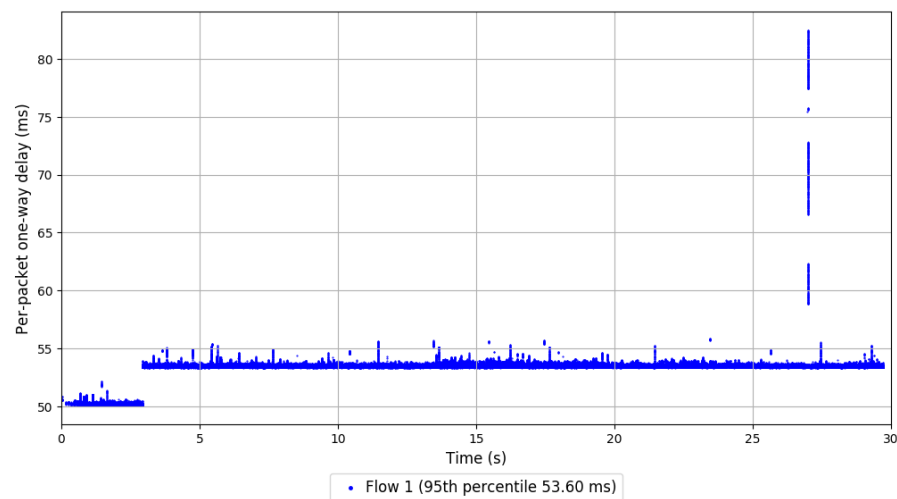
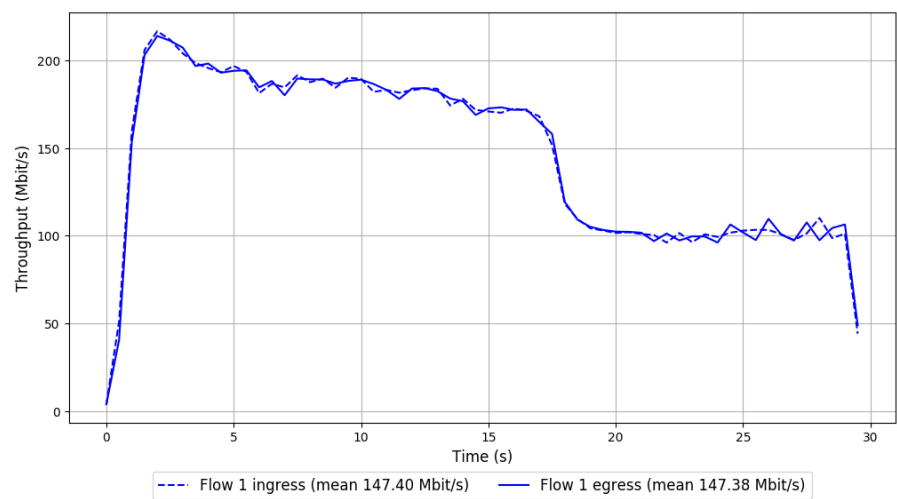


```
Run 1: Statistics of Indigo-calib

Start at: 2017-11-21 04:25:55
End at: 2017-11-21 04:26:25

# Below is generated by plot.py at 2017-11-21 07:29:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 147.38 Mbit/s
95th percentile per-packet one-way delay: 53.600 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 147.38 Mbit/s
95th percentile per-packet one-way delay: 53.600 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo-calib — Data Link

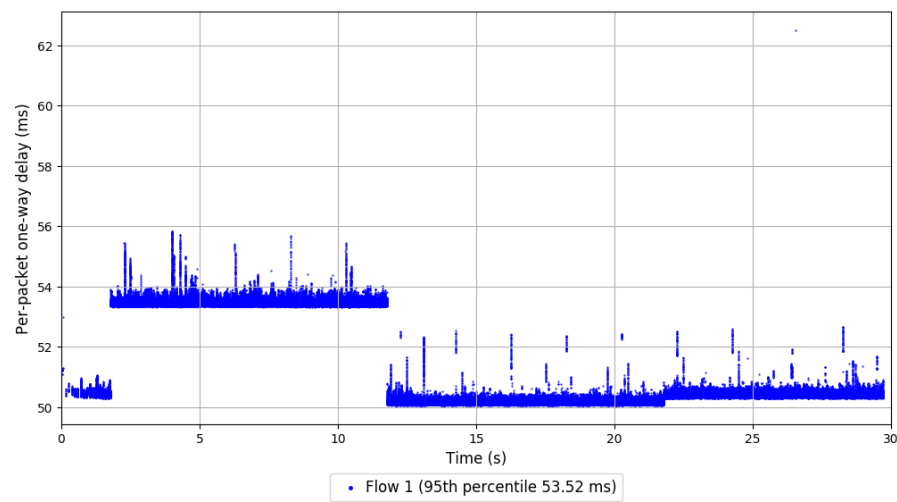
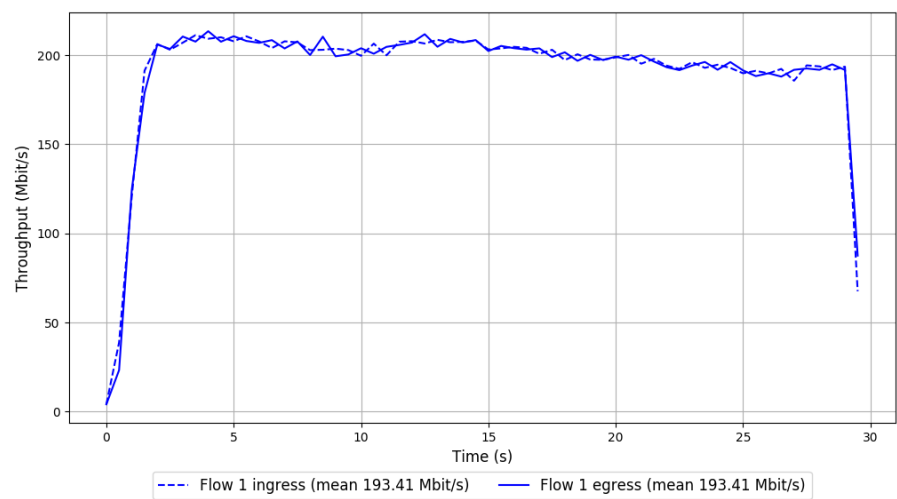


```
Run 2: Statistics of Indigo-calib

Start at: 2017-11-21 04:36:06
End at: 2017-11-21 04:36:36

# Below is generated by plot.py at 2017-11-21 07:29:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 193.41 Mbit/s
95th percentile per-packet one-way delay: 53.518 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 193.41 Mbit/s
95th percentile per-packet one-way delay: 53.518 ms
Loss rate: 0.00%
```

Run 2: Report of Indigo-calib — Data Link



Run 3: Statistics of Indigo-calib

Start at: 2017-11-21 04:46:40

End at: 2017-11-21 04:47:10

Below is generated by plot.py at 2017-11-21 07:29:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 198.51 Mbit/s

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

Loss rate: 0.00%

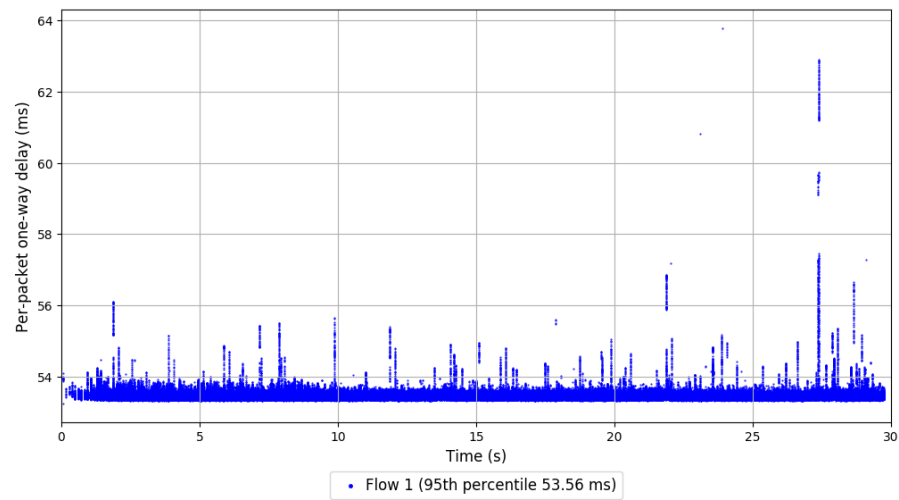
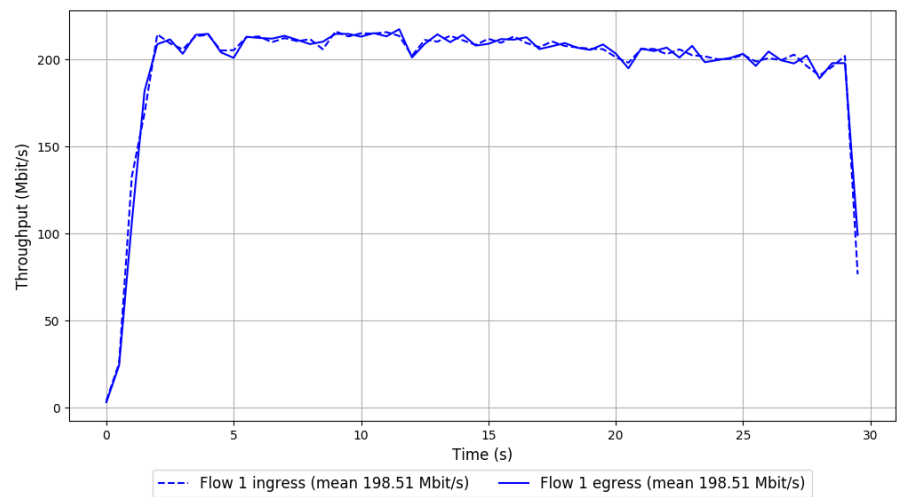
-- Flow 1:

Average throughput: 198.51 Mbit/s

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

Loss rate: 0.00%

Run 3: Report of Indigo-calib — Data Link



Run 4: Statistics of Indigo-calib

Start at: 2017-11-21 04:57:07

End at: 2017-11-21 04:57:37

Below is generated by plot.py at 2017-11-21 07:29:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 187.28 Mbit/s

95th percentile per-packet one-way delay: 53.224 ms

Loss rate: 0.00%

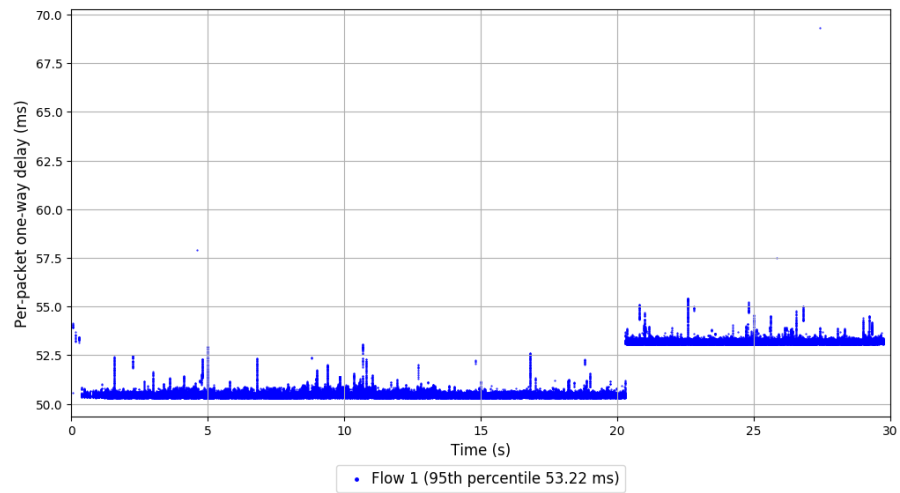
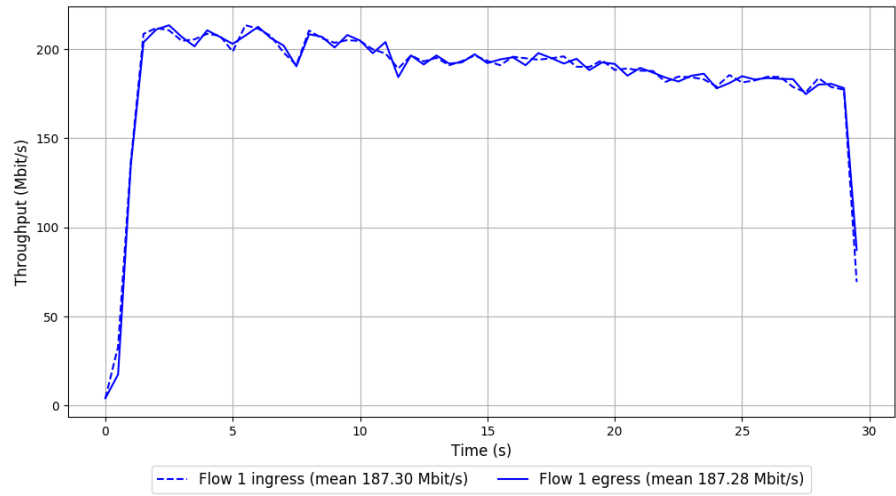
-- Flow 1:

Average throughput: 187.28 Mbit/s

95th percentile per-packet one-way delay: 53.224 ms

Loss rate: 0.00%

Run 4: Report of Indigo-calib — Data Link



Run 5: Statistics of Indigo-calib

Start at: 2017-11-21 05:07:25

End at: 2017-11-21 05:07:55

Below is generated by plot.py at 2017-11-21 07:29:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 191.21 Mbit/s

95th percentile per-packet one-way delay: 53.290 ms

Loss rate: 0.00%

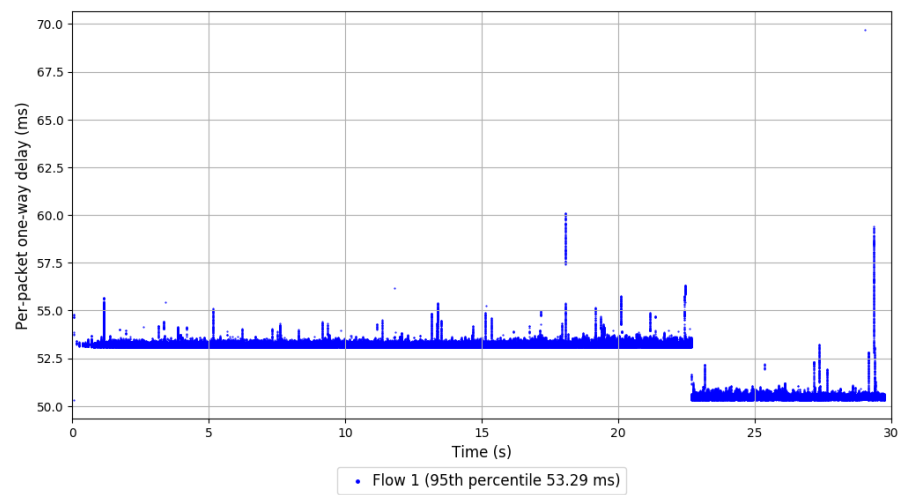
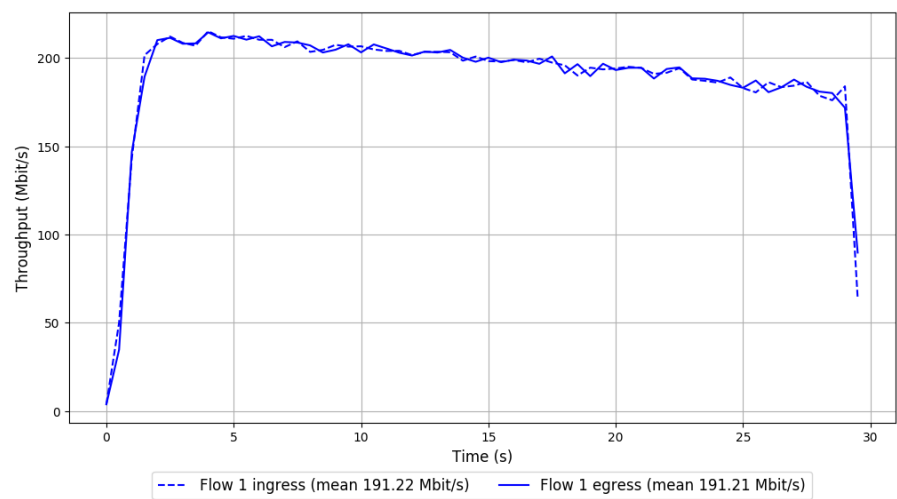
-- Flow 1:

Average throughput: 191.21 Mbit/s

95th percentile per-packet one-way delay: 53.290 ms

Loss rate: 0.00%

Run 5: Report of Indigo-calib — Data Link



Run 6: Statistics of Indigo-calib

Start at: 2017-11-21 05:17:41

End at: 2017-11-21 05:18:11

Below is generated by plot.py at 2017-11-21 07:29:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 185.21 Mbit/s

95th percentile per-packet one-way delay: 53.270 ms

Loss rate: 0.00%

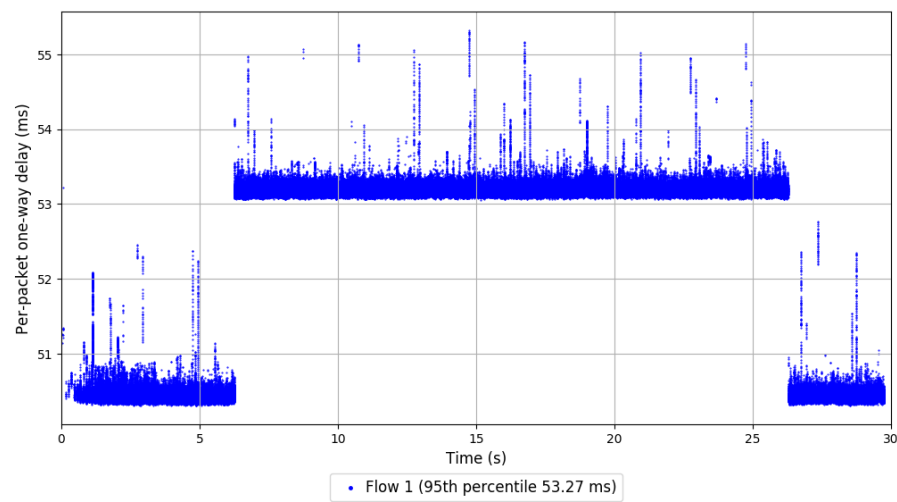
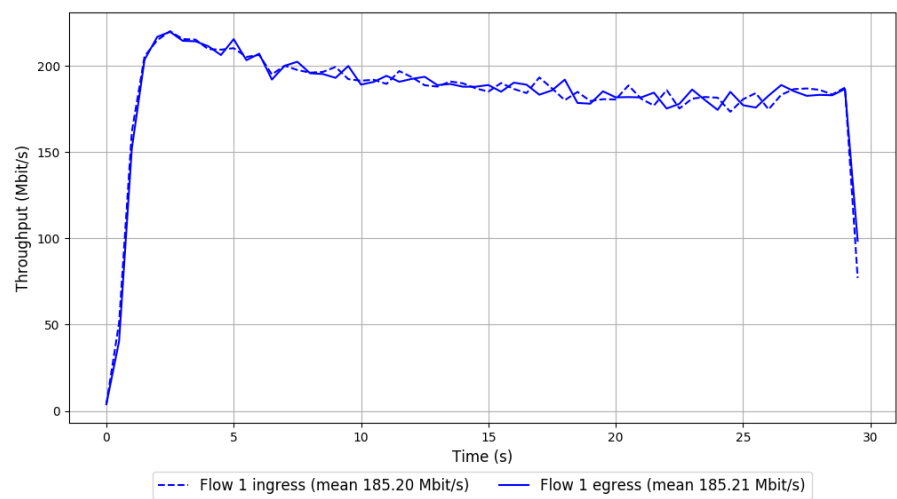
-- Flow 1:

Average throughput: 185.21 Mbit/s

95th percentile per-packet one-way delay: 53.270 ms

Loss rate: 0.00%

Run 6: Report of Indigo-calib — Data Link



Run 7: Statistics of Indigo-calib

Start at: 2017-11-21 05:27:57

End at: 2017-11-21 05:28:27

Below is generated by plot.py at 2017-11-21 07:30:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 195.28 Mbit/s

95th percentile per-packet one-way delay: 53.534 ms

Loss rate: 0.00%

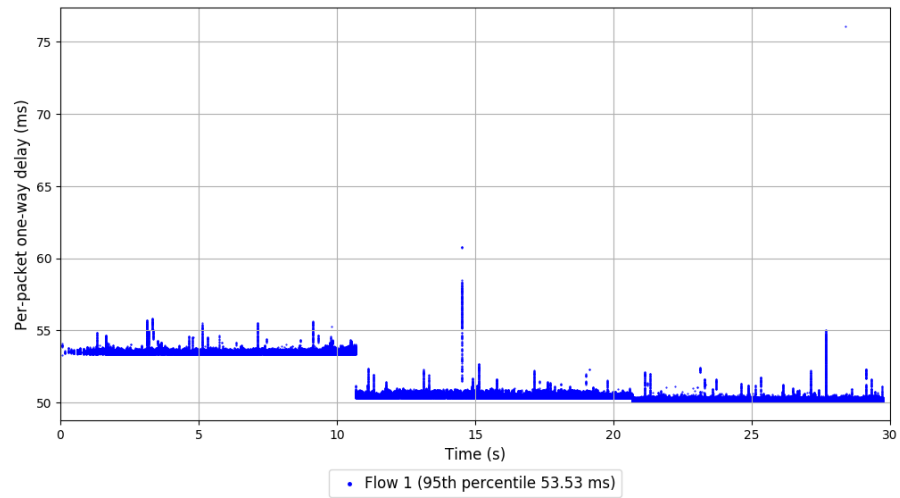
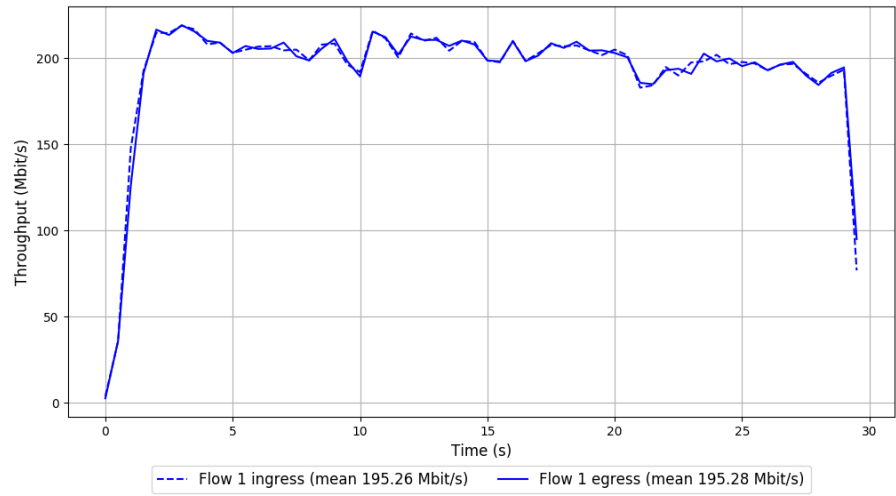
-- Flow 1:

Average throughput: 195.28 Mbit/s

95th percentile per-packet one-way delay: 53.534 ms

Loss rate: 0.00%

Run 7: Report of Indigo-calib — Data Link



Run 8: Statistics of Indigo-calib

Start at: 2017-11-21 05:38:13

End at: 2017-11-21 05:38:43

Below is generated by plot.py at 2017-11-21 07:30:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 199.42 Mbit/s

95th percentile per-packet one-way delay: 53.590 ms

Loss rate: 0.00%

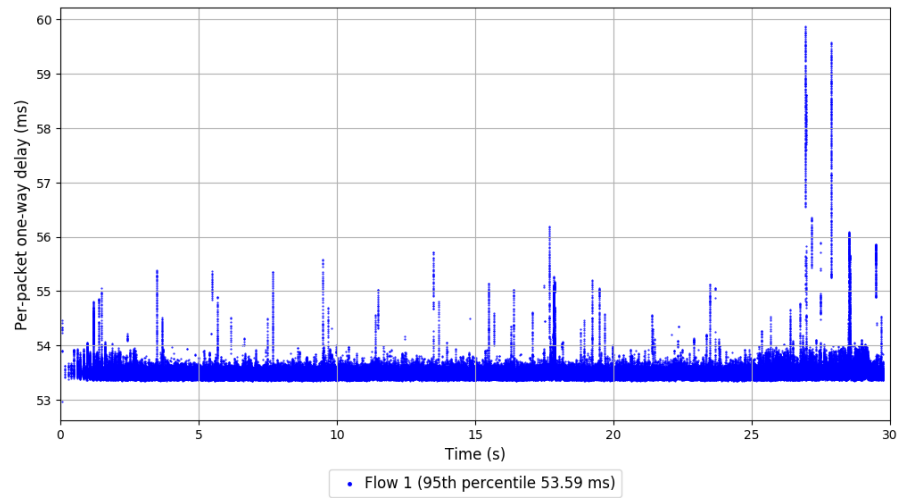
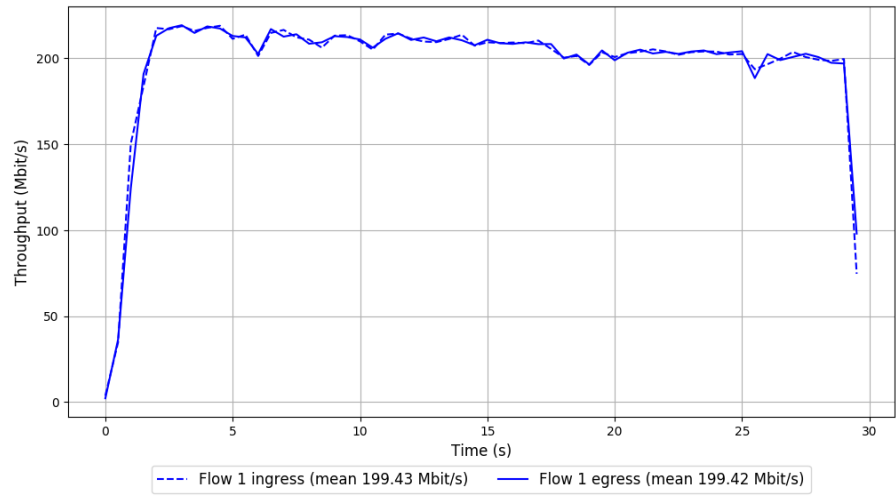
-- Flow 1:

Average throughput: 199.42 Mbit/s

95th percentile per-packet one-way delay: 53.590 ms

Loss rate: 0.00%

Run 8: Report of Indigo-calib — Data Link



Run 9: Statistics of Indigo-calib

Start at: 2017-11-21 05:48:46

End at: 2017-11-21 05:49:16

Below is generated by plot.py at 2017-11-21 07:30:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 188.09 Mbit/s

95th percentile per-packet one-way delay: 53.543 ms

Loss rate: 0.15%

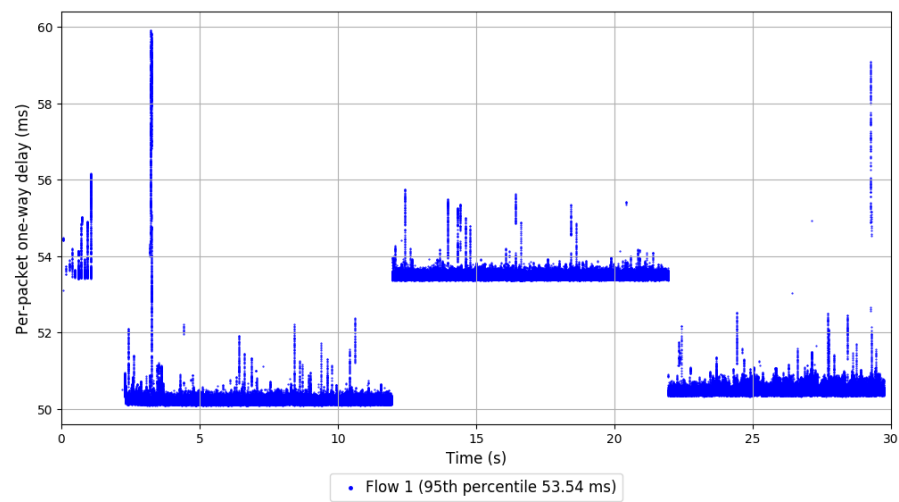
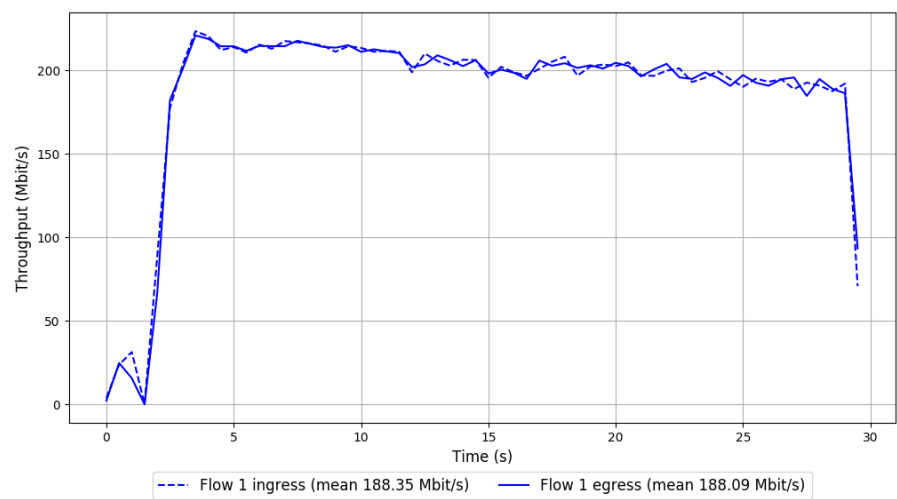
-- Flow 1:

Average throughput: 188.09 Mbit/s

95th percentile per-packet one-way delay: 53.543 ms

Loss rate: 0.15%

Run 9: Report of Indigo-calib — Data Link



Run 10: Statistics of Indigo-calib

Start at: 2017-11-21 05:59:21

End at: 2017-11-21 05:59:51

Below is generated by plot.py at 2017-11-21 07:30:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 176.42 Mbit/s

95th percentile per-packet one-way delay: 53.354 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 176.42 Mbit/s

95th percentile per-packet one-way delay: 53.354 ms

Loss rate: 0.00%

Run 10: Report of Indigo-calib — Data Link

