

Pantheon Report

Generated at 2017-11-30 09:33:58 (UTC).

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

Repeated the test of 14 congestion control schemes 10 times.

Each test lasted for 30 seconds running 1 flow.

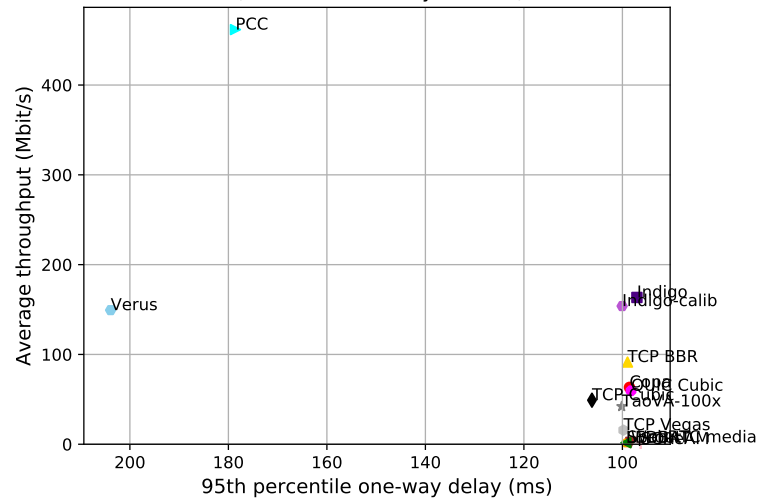
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

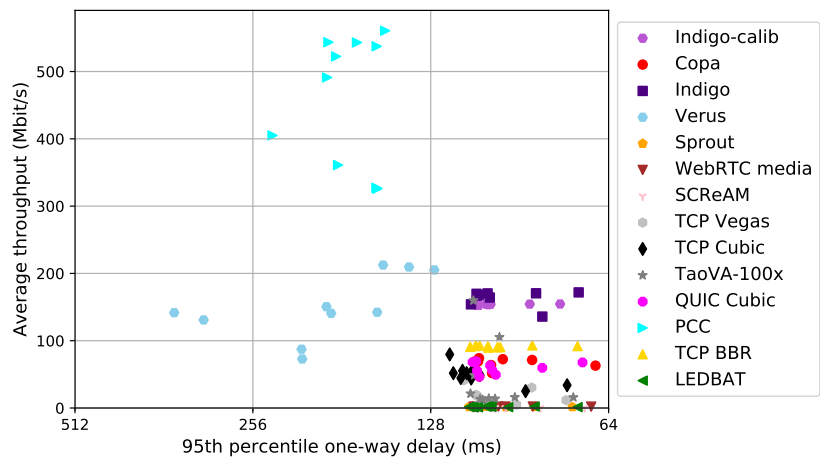
Git summary:

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

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



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



scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	10	91.55	98.96	0.85
TCP Cubic	10	49.03	106.18	0.68
LEDBAT	10	1.61	99.30	1.95
PCC	10	461.75	178.56	3.09
QUIC Cubic	9	59.57	98.25	1.01
SCReAM	8	0.19	96.29	0.76
WebRTC media	10	2.09	98.29	0.80
Sprout	10	1.85	99.08	1.81
TaoVA-100x	10	42.06	100.15	1.16
TCP Vegas	10	15.69	99.79	0.82
Verus	10	149.33	203.92	5.74
Copa	10	63.31	98.57	0.88
Indigo	9	163.47	97.06	0.86
Indigo-calib	9	153.85	100.06	0.83

Run 1: Statistics of TCP BBR

Start at: 2017-11-30 05:16:18

End at: 2017-11-30 05:16:48

Below is generated by plot.py at 2017-11-30 09:01:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 90.34 Mbit/s

95th percentile per-packet one-way delay: 97.649 ms

Loss rate: 0.81%

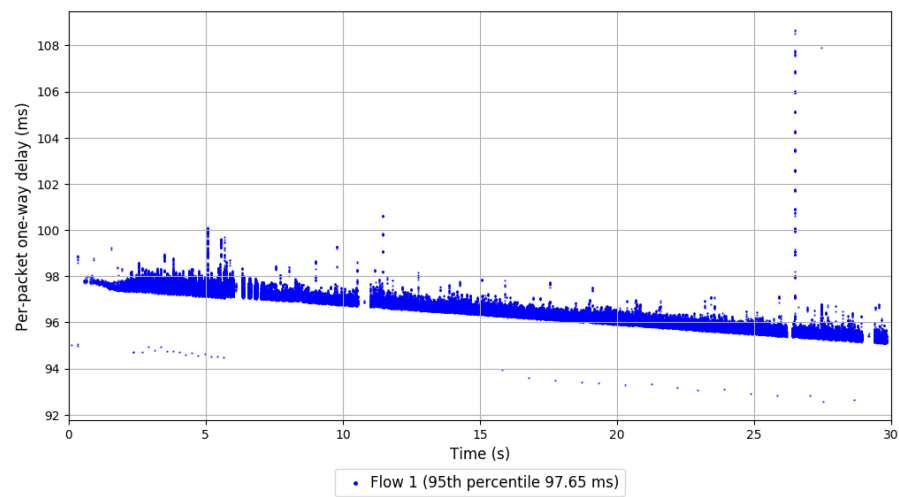
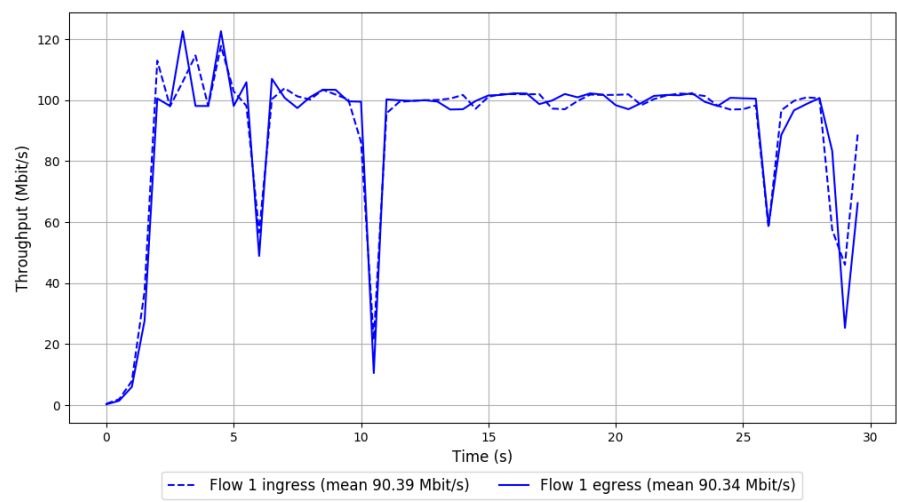
-- Flow 1:

Average throughput: 90.34 Mbit/s

95th percentile per-packet one-way delay: 97.649 ms

Loss rate: 0.81%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2017-11-30 05:27:07

End at: 2017-11-30 05:27:37

Below is generated by plot.py at 2017-11-30 09:01:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.05 Mbit/s

95th percentile per-packet one-way delay: 72.236 ms

Loss rate: 0.80%

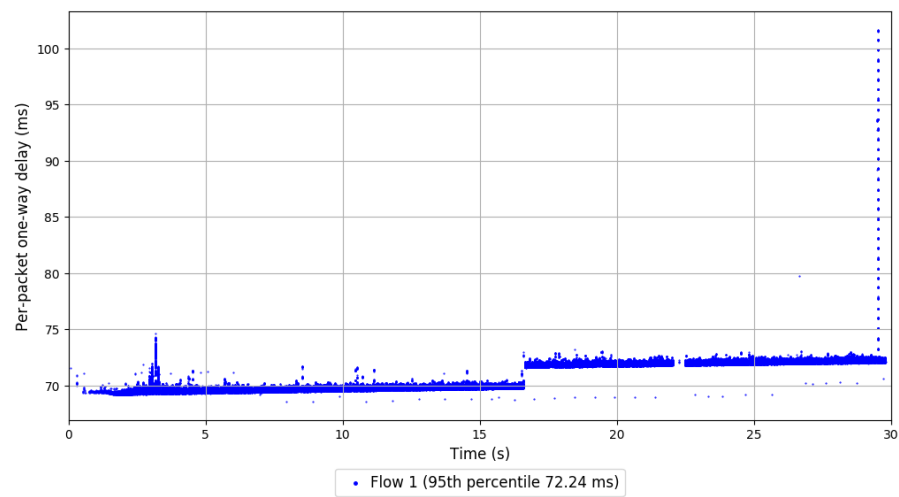
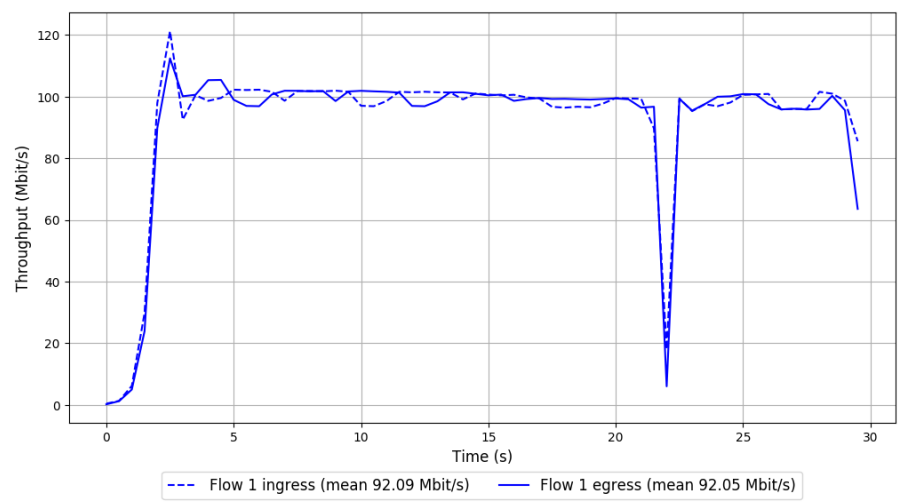
-- Flow 1:

Average throughput: 92.05 Mbit/s

95th percentile per-packet one-way delay: 72.236 ms

Loss rate: 0.80%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2017-11-30 05:37:58

End at: 2017-11-30 05:38:28

Below is generated by plot.py at 2017-11-30 09:01:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.01 Mbit/s

95th percentile per-packet one-way delay: 86.159 ms

Loss rate: 0.80%

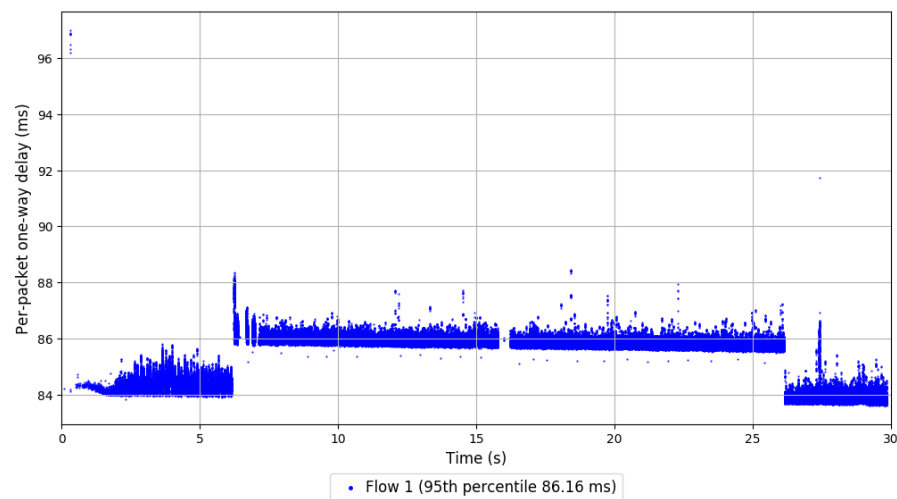
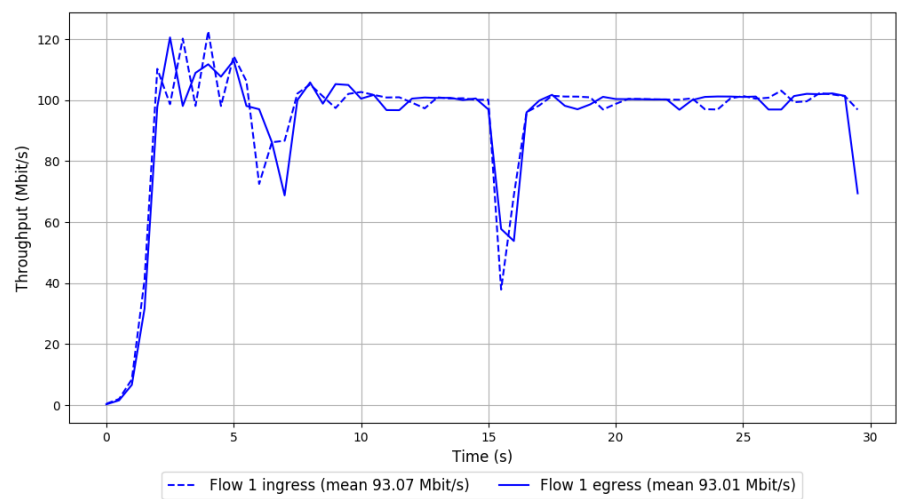
-- Flow 1:

Average throughput: 93.01 Mbit/s

95th percentile per-packet one-way delay: 86.159 ms

Loss rate: 0.80%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2017-11-30 05:49:12

End at: 2017-11-30 05:49:42

Below is generated by plot.py at 2017-11-30 09:01:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 90.46 Mbit/s

95th percentile per-packet one-way delay: 98.680 ms

Loss rate: 1.05%

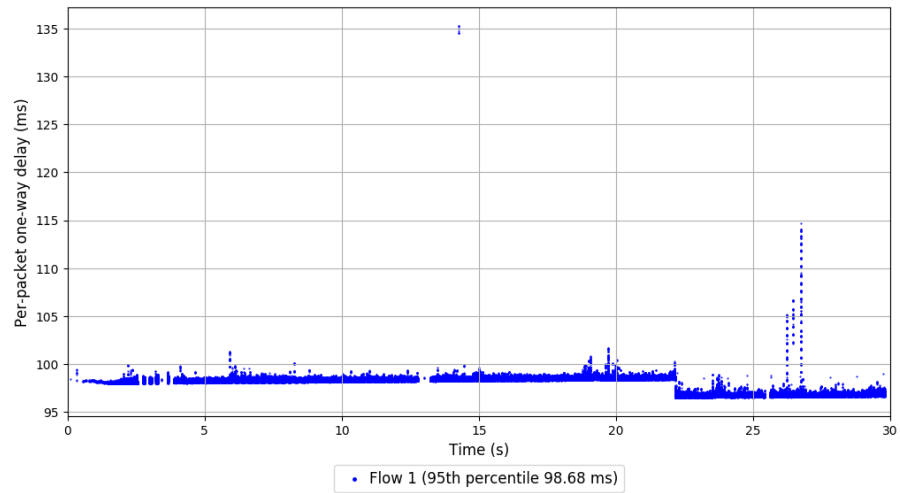
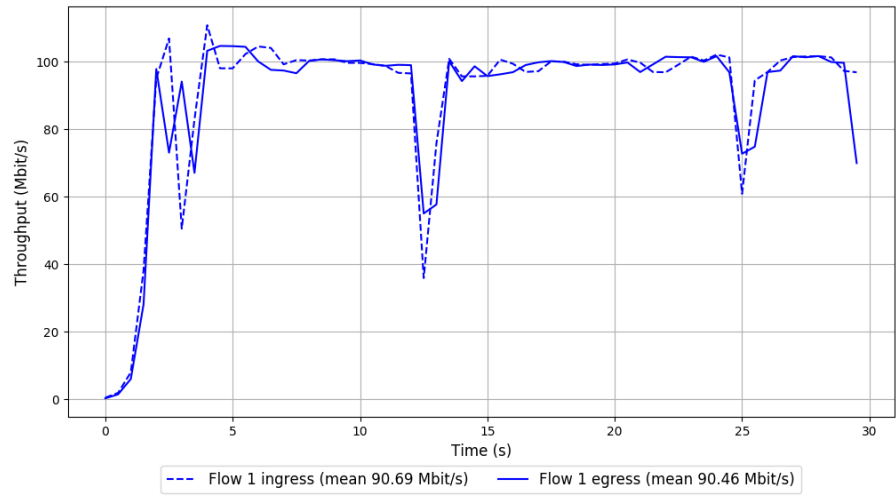
-- Flow 1:

Average throughput: 90.46 Mbit/s

95th percentile per-packet one-way delay: 98.680 ms

Loss rate: 1.05%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2017-11-30 05:59:56

End at: 2017-11-30 06:00:26

Below is generated by plot.py at 2017-11-30 09:01:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.66 Mbit/s

95th percentile per-packet one-way delay: 102.470 ms

Loss rate: 0.80%

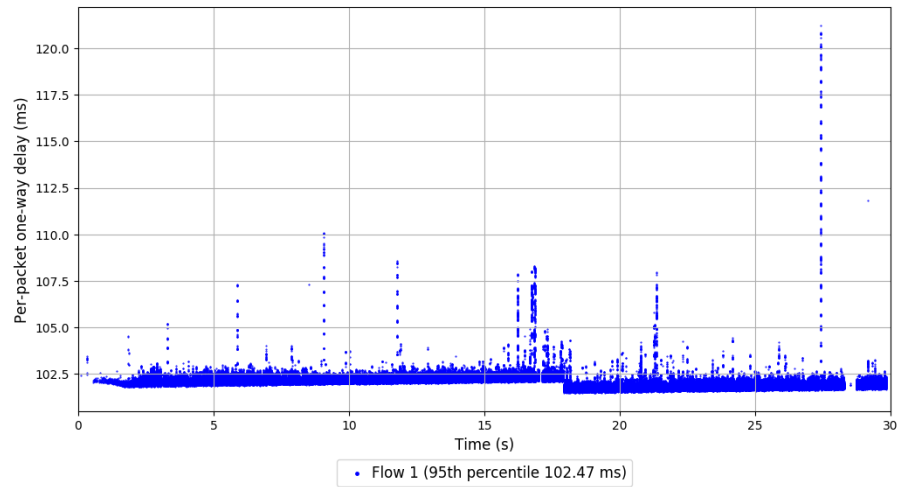
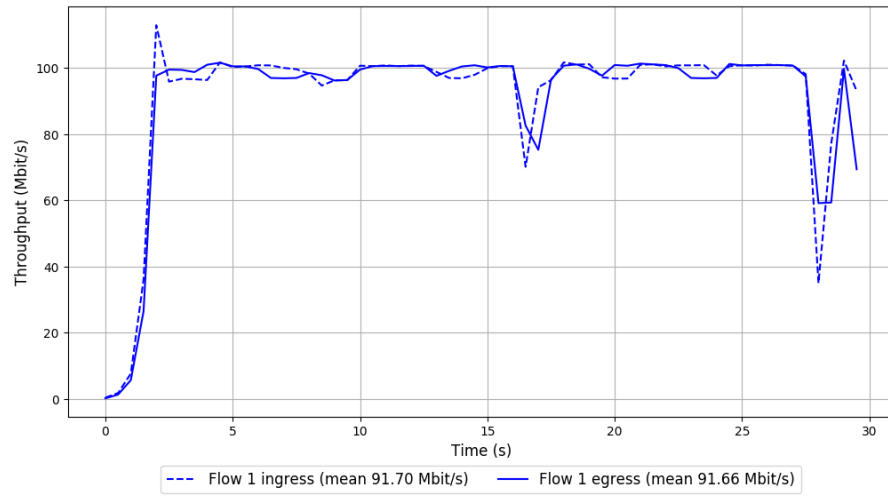
-- Flow 1:

Average throughput: 91.66 Mbit/s

95th percentile per-packet one-way delay: 102.470 ms

Loss rate: 0.80%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2017-11-30 06:11:03

End at: 2017-11-30 06:11:33

Below is generated by plot.py at 2017-11-30 09:01:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 89.64 Mbit/s

95th percentile per-packet one-way delay: 102.120 ms

Loss rate: 0.80%

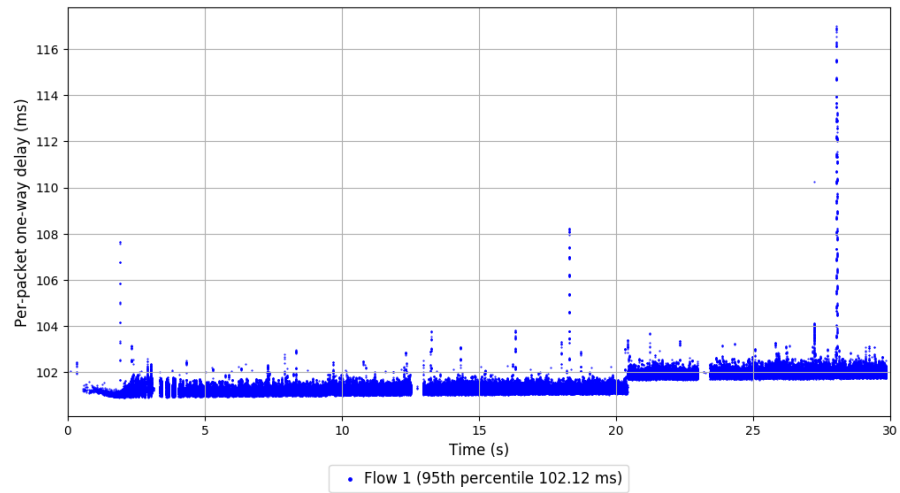
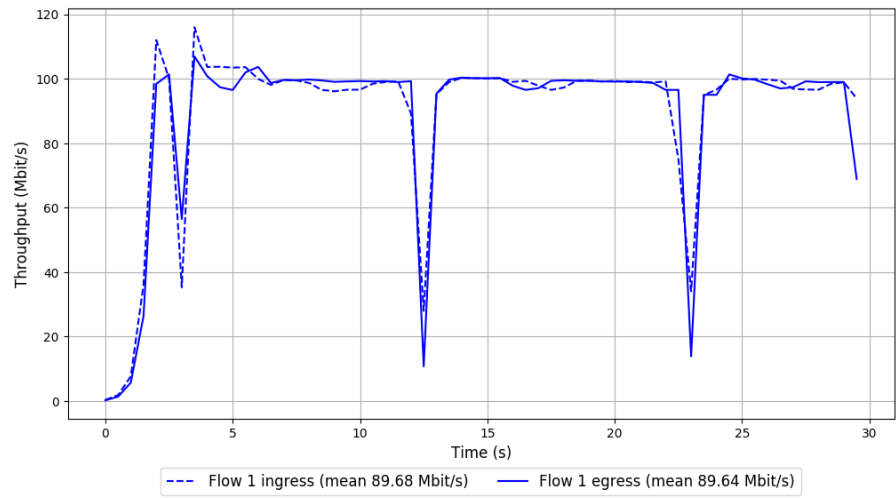
-- Flow 1:

Average throughput: 89.64 Mbit/s

95th percentile per-packet one-way delay: 102.120 ms

Loss rate: 0.80%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2017-11-30 06:21:50

End at: 2017-11-30 06:22:20

Below is generated by plot.py at 2017-11-30 09:01:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.43 Mbit/s

95th percentile per-packet one-way delay: 107.306 ms

Loss rate: 0.84%

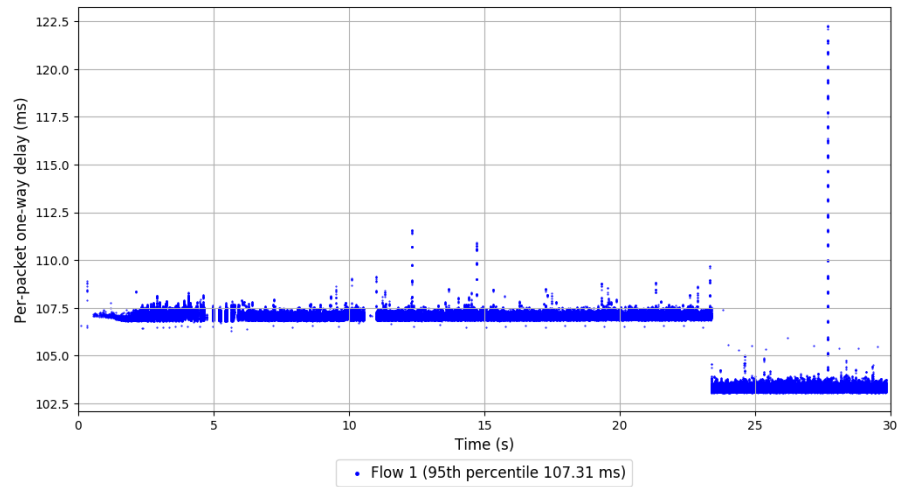
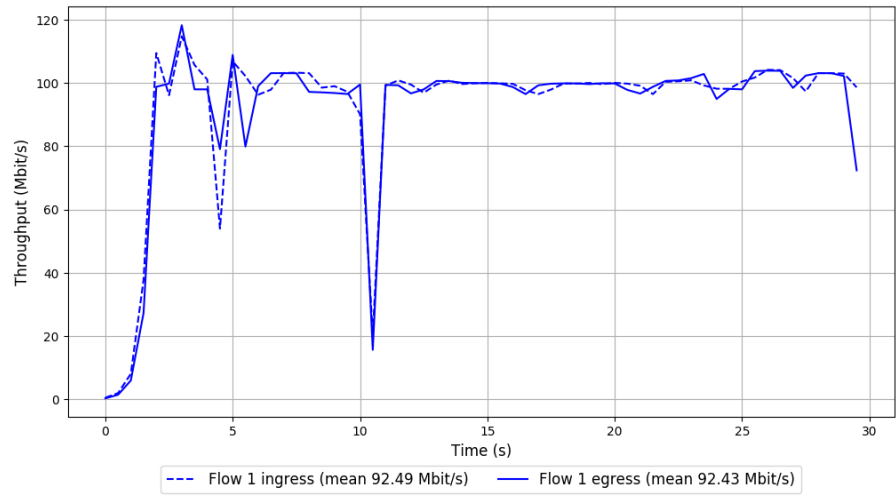
-- Flow 1:

Average throughput: 92.43 Mbit/s

95th percentile per-packet one-way delay: 107.306 ms

Loss rate: 0.84%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2017-11-30 06:32:52

End at: 2017-11-30 06:33:22

Below is generated by plot.py at 2017-11-30 09:01:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 90.94 Mbit/s

95th percentile per-packet one-way delay: 109.752 ms

Loss rate: 1.02%

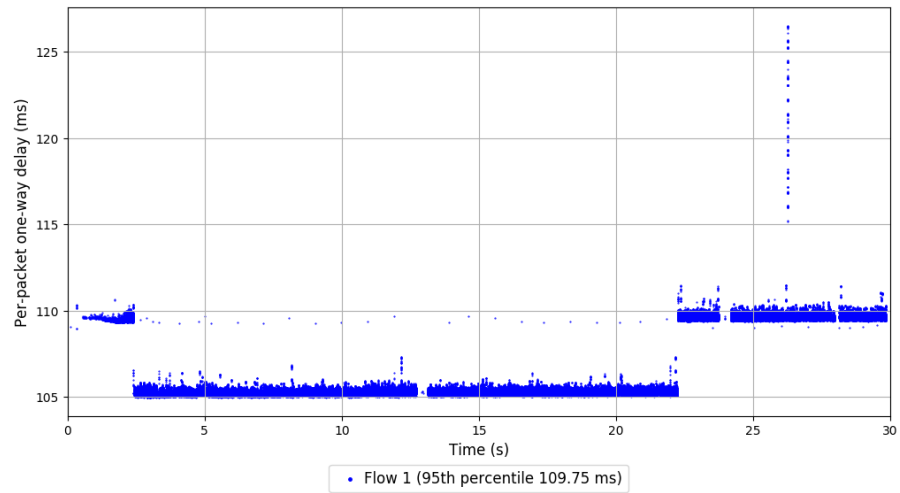
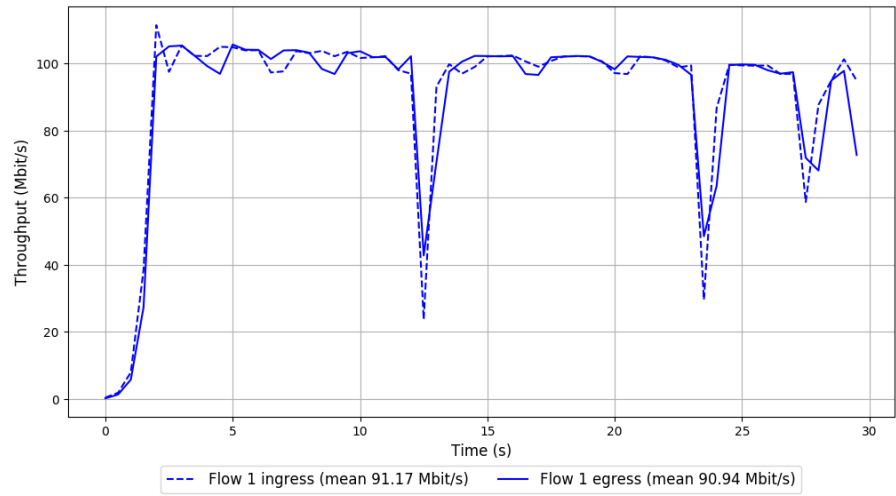
-- Flow 1:

Average throughput: 90.94 Mbit/s

95th percentile per-packet one-way delay: 109.752 ms

Loss rate: 1.02%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2017-11-30 06:43:50

End at: 2017-11-30 06:44:20

Below is generated by plot.py at 2017-11-30 09:02:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.13 Mbit/s

95th percentile per-packet one-way delay: 107.499 ms

Loss rate: 0.80%

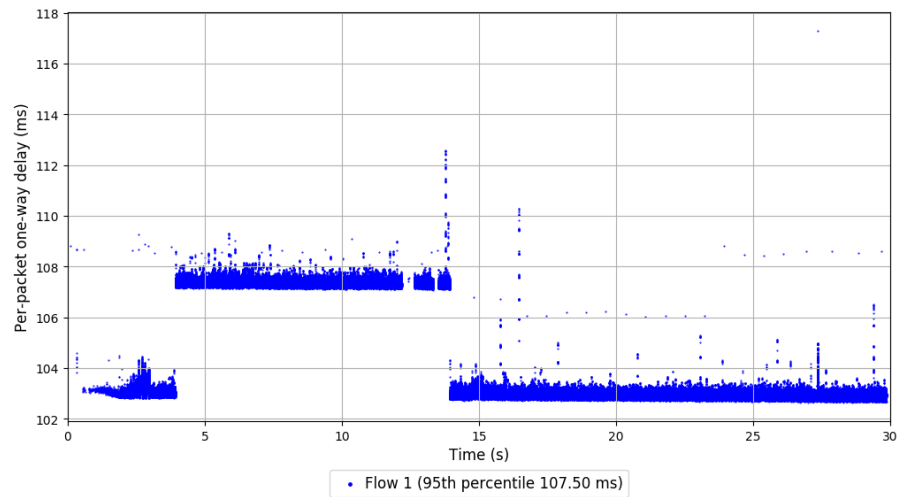
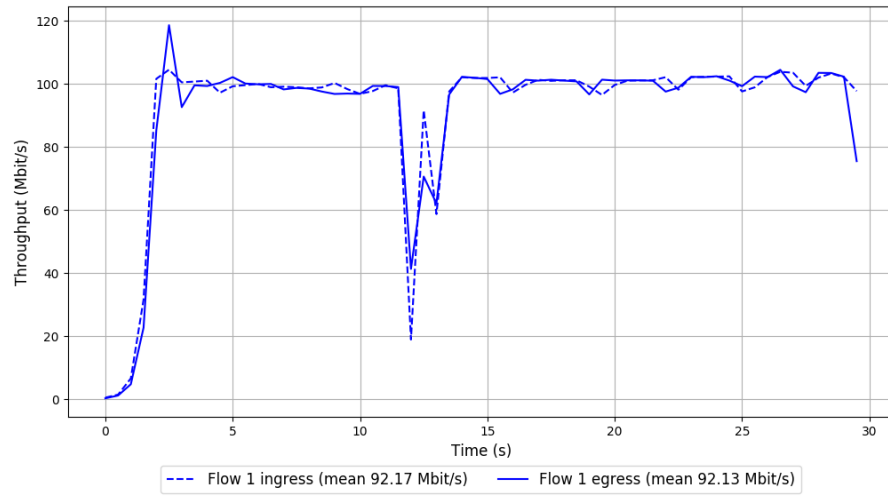
-- Flow 1:

Average throughput: 92.13 Mbit/s

95th percentile per-packet one-way delay: 107.499 ms

Loss rate: 0.80%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2017-11-30 06:54:48

End at: 2017-11-30 06:55:18

Below is generated by plot.py at 2017-11-30 09:03:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.84 Mbit/s

95th percentile per-packet one-way delay: 105.770 ms

Loss rate: 0.78%

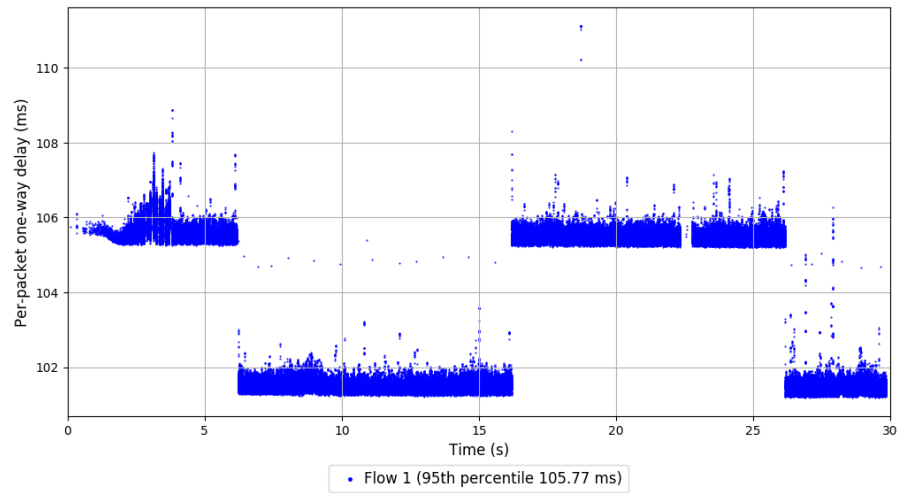
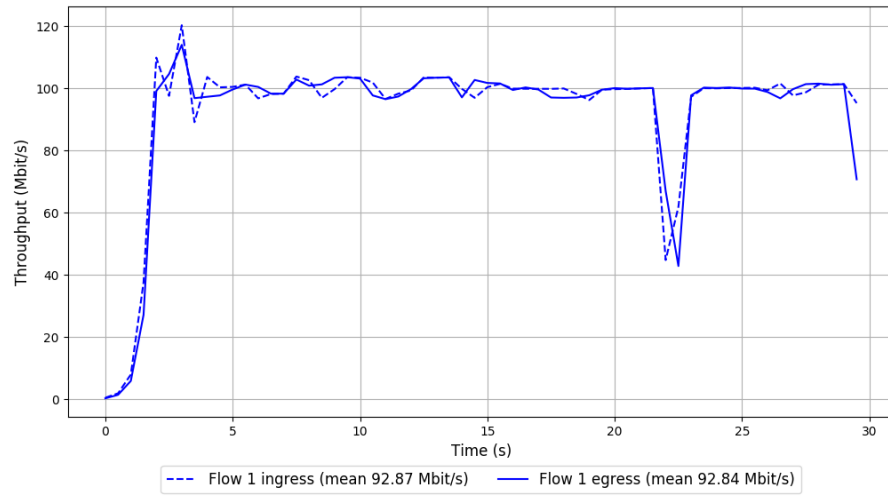
-- Flow 1:

Average throughput: 92.84 Mbit/s

95th percentile per-packet one-way delay: 105.770 ms

Loss rate: 0.78%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2017-11-30 05:26:23

End at: 2017-11-30 05:26:53

Below is generated by plot.py at 2017-11-30 09:03:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 33.88 Mbit/s

95th percentile per-packet one-way delay: 75.231 ms

Loss rate: 0.54%

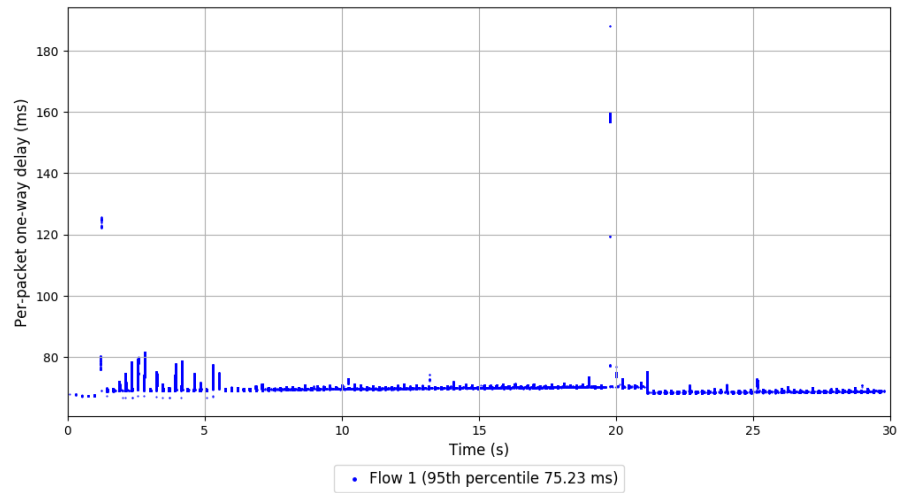
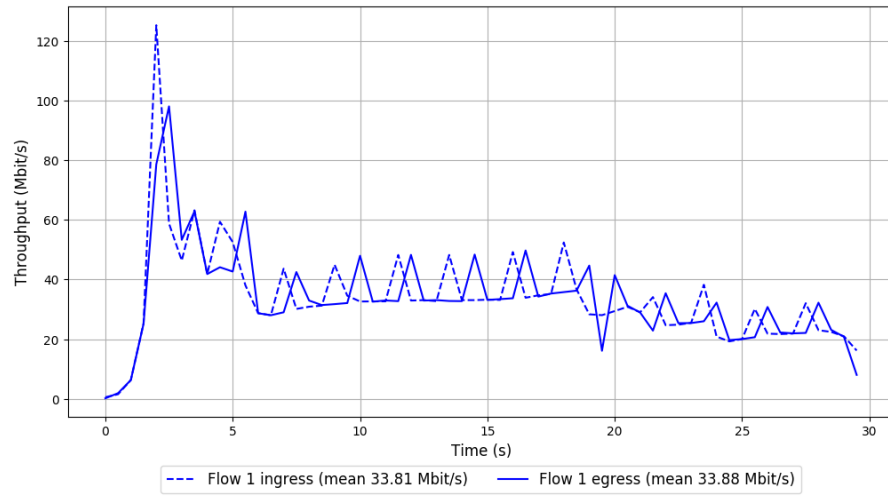
-- Flow 1:

Average throughput: 33.88 Mbit/s

95th percentile per-packet one-way delay: 75.231 ms

Loss rate: 0.54%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2017-11-30 05:37:14

End at: 2017-11-30 05:37:44

Below is generated by plot.py at 2017-11-30 09:03:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 25.07 Mbit/s

95th percentile per-packet one-way delay: 88.451 ms

Loss rate: 1.43%

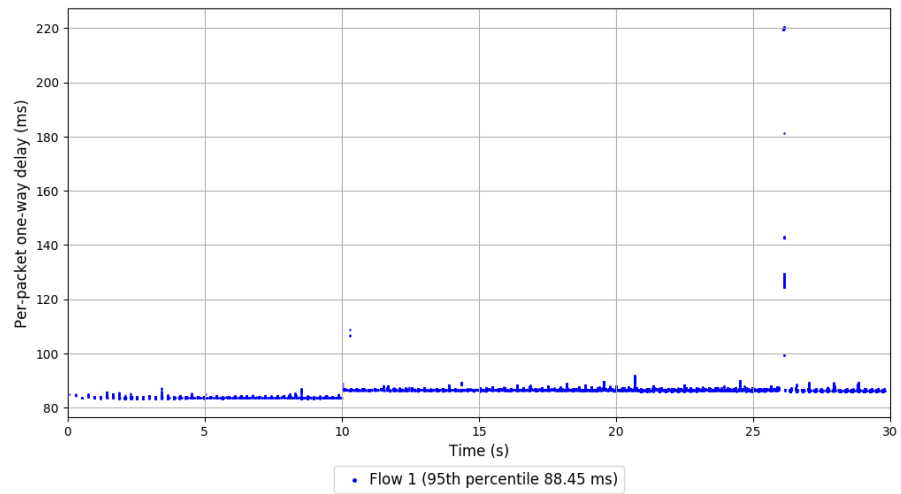
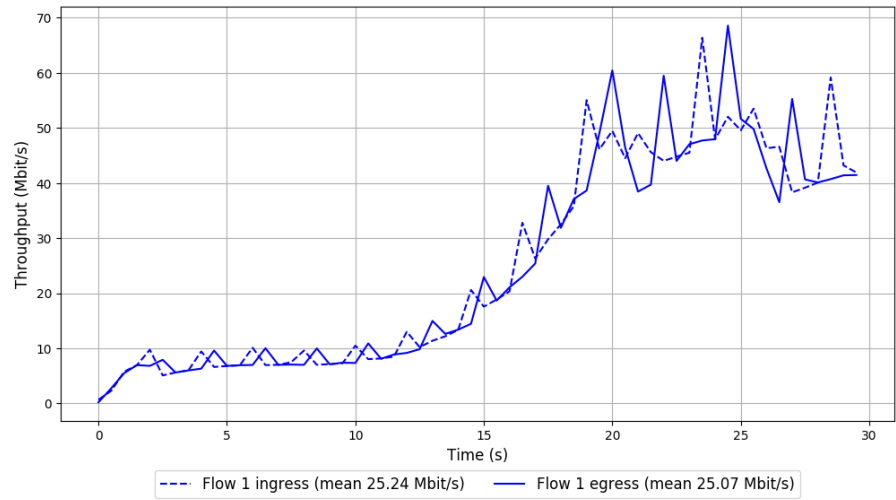
-- Flow 1:

Average throughput: 25.07 Mbit/s

95th percentile per-packet one-way delay: 88.451 ms

Loss rate: 1.43%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2017-11-30 05:48:26

End at: 2017-11-30 05:48:56

Below is generated by plot.py at 2017-11-30 09:03:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 49.04 Mbit/s

95th percentile per-packet one-way delay: 105.653 ms

Loss rate: 0.43%

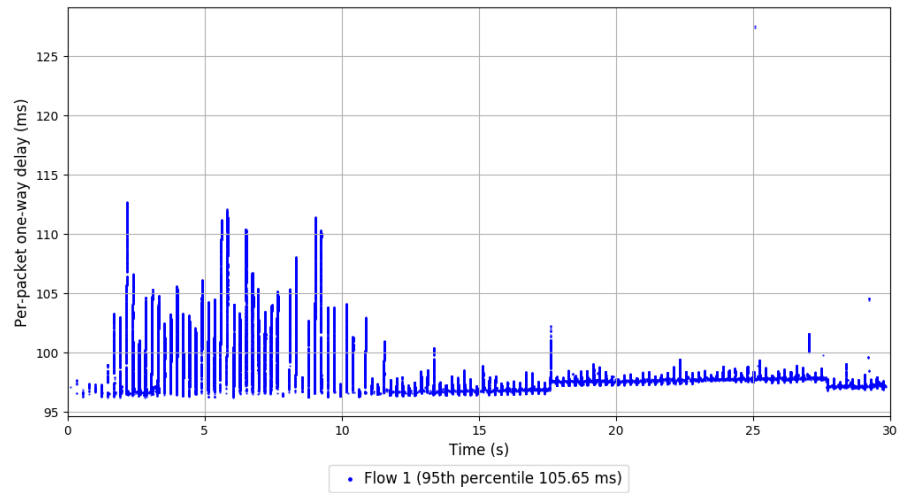
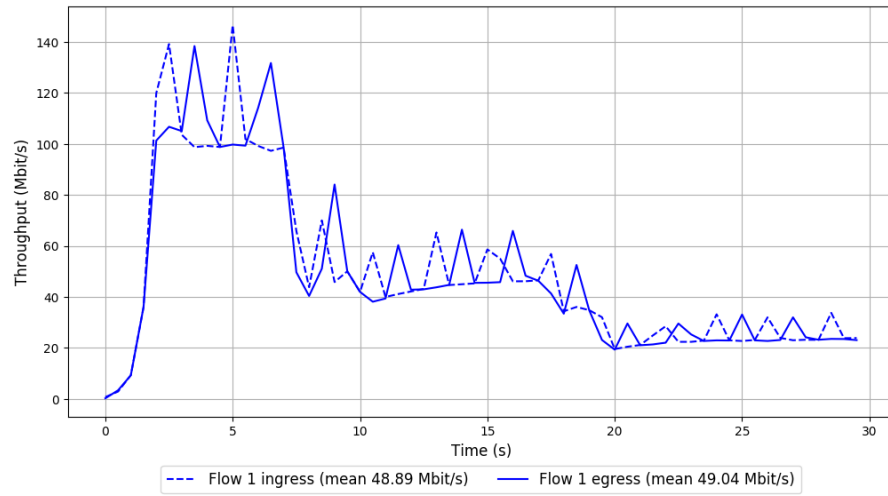
-- Flow 1:

Average throughput: 49.04 Mbit/s

95th percentile per-packet one-way delay: 105.653 ms

Loss rate: 0.43%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2017-11-30 05:59:11

End at: 2017-11-30 05:59:41

Below is generated by plot.py at 2017-11-30 09:03:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 43.89 Mbit/s

95th percentile per-packet one-way delay: 109.307 ms

Loss rate: 0.50%

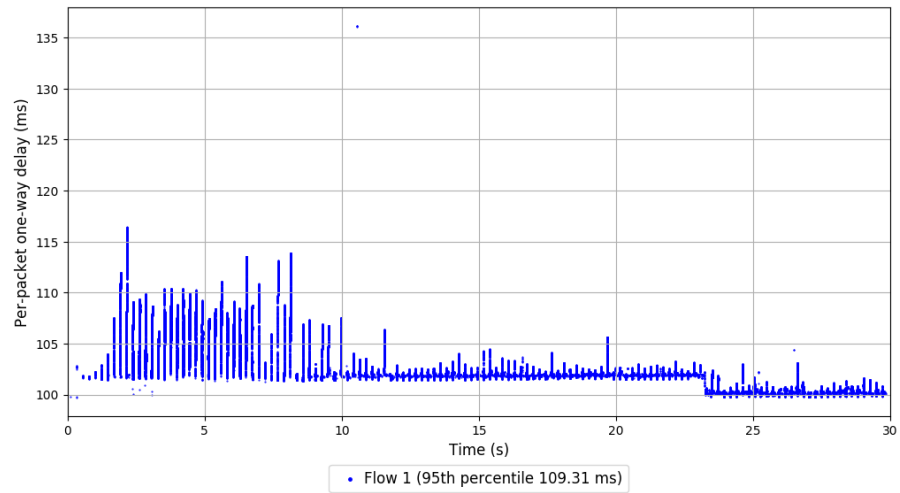
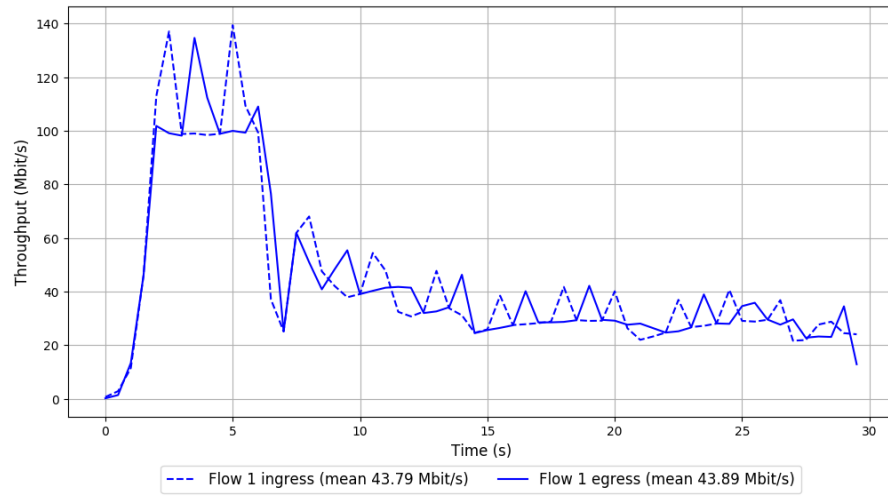
-- Flow 1:

Average throughput: 43.89 Mbit/s

95th percentile per-packet one-way delay: 109.307 ms

Loss rate: 0.50%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2017-11-30 06:10:18

End at: 2017-11-30 06:10:48

Below is generated by plot.py at 2017-11-30 09:03:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 55.47 Mbit/s

95th percentile per-packet one-way delay: 108.878 ms

Loss rate: 0.57%

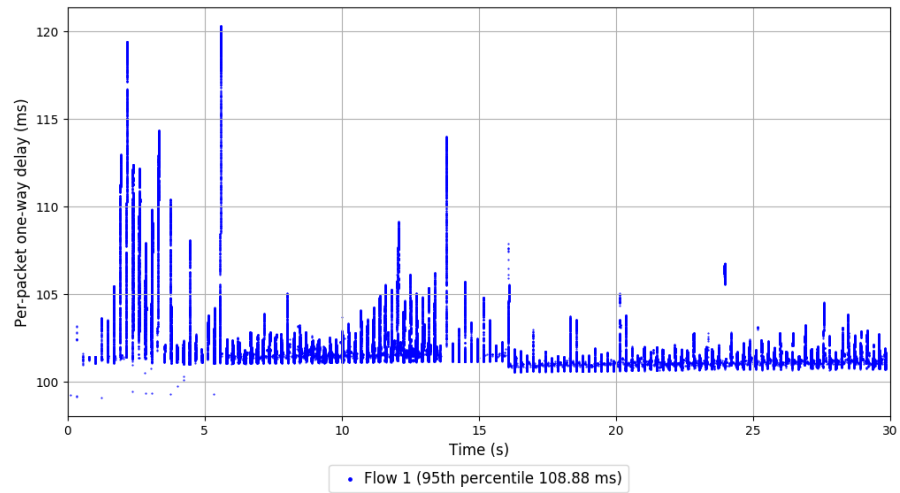
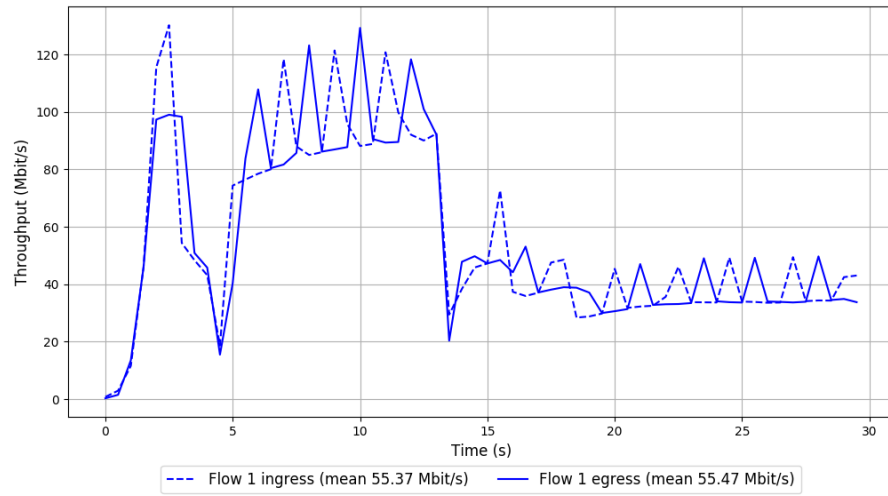
-- Flow 1:

Average throughput: 55.47 Mbit/s

95th percentile per-packet one-way delay: 108.878 ms

Loss rate: 0.57%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2017-11-30 06:21:05

End at: 2017-11-30 06:21:35

Below is generated by plot.py at 2017-11-30 09:03:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 51.82 Mbit/s

95th percentile per-packet one-way delay: 111.275 ms

Loss rate: 0.68%

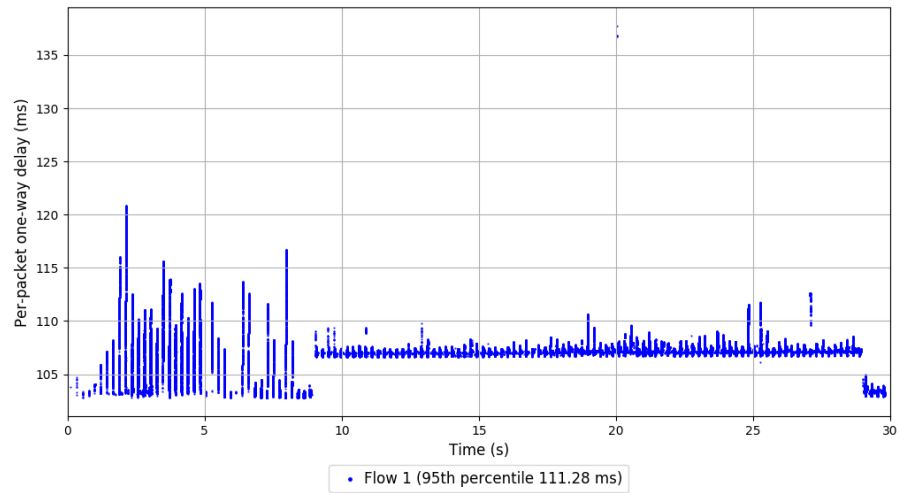
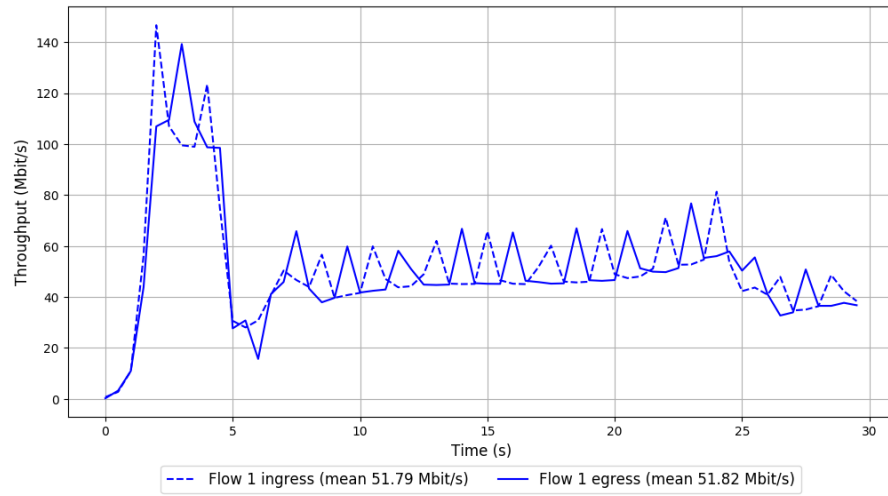
-- Flow 1:

Average throughput: 51.82 Mbit/s

95th percentile per-packet one-way delay: 111.275 ms

Loss rate: 0.68%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2017-11-30 06:32:06

End at: 2017-11-30 06:32:36

Below is generated by plot.py at 2017-11-30 09:03:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 51.74 Mbit/s

95th percentile per-packet one-way delay: 117.208 ms

Loss rate: 0.47%

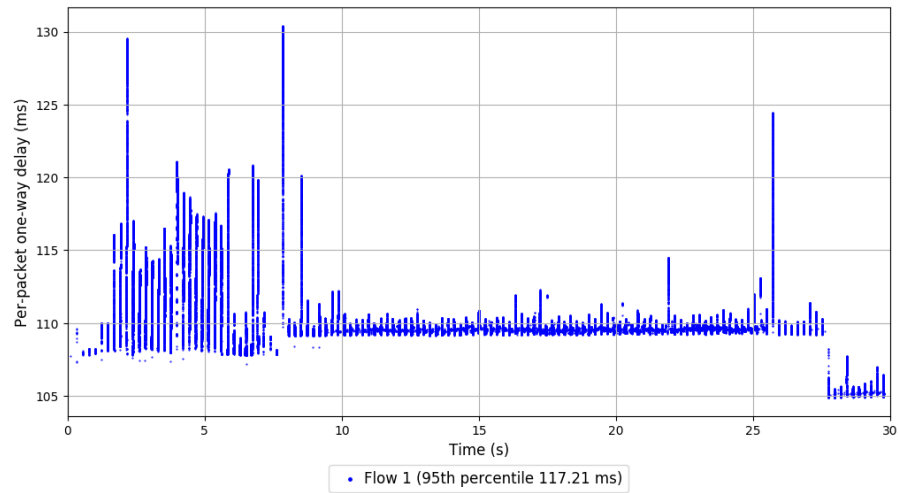
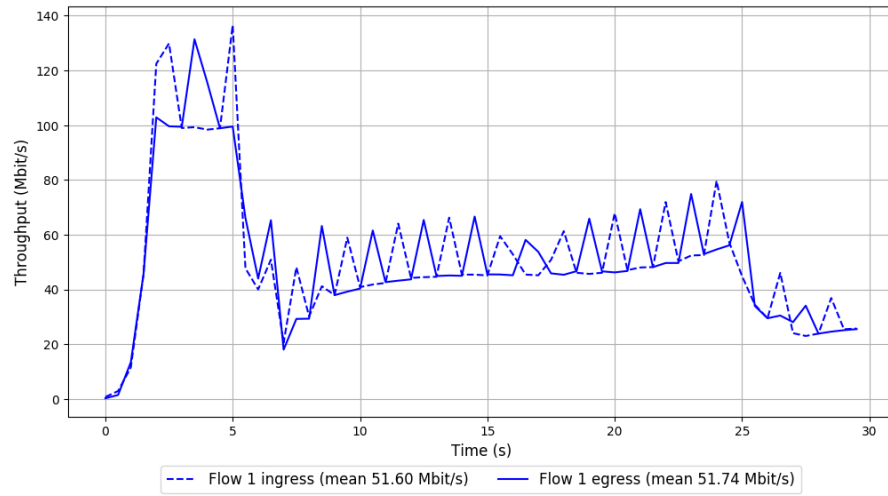
-- Flow 1:

Average throughput: 51.74 Mbit/s

95th percentile per-packet one-way delay: 117.208 ms

Loss rate: 0.47%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2017-11-30 06:43:04

End at: 2017-11-30 06:43:34

Below is generated by plot.py at 2017-11-30 09:03:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 55.29 Mbit/s

95th percentile per-packet one-way delay: 113.094 ms

Loss rate: 0.81%

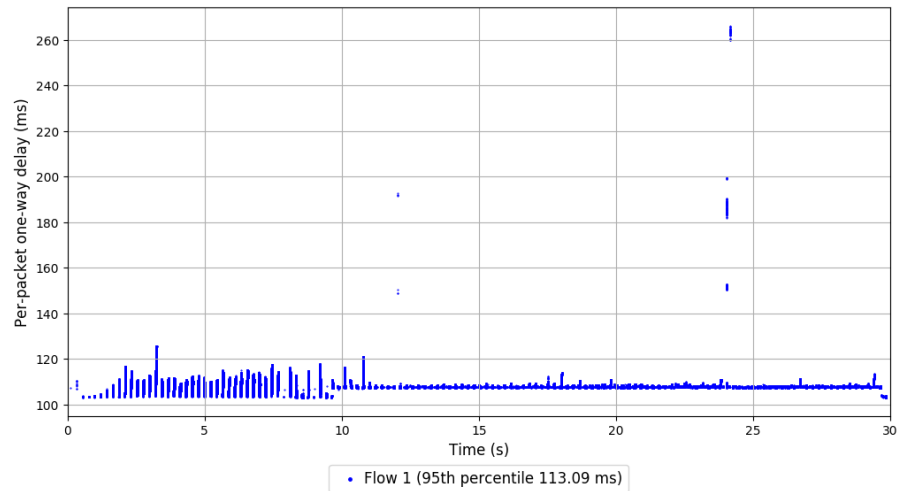
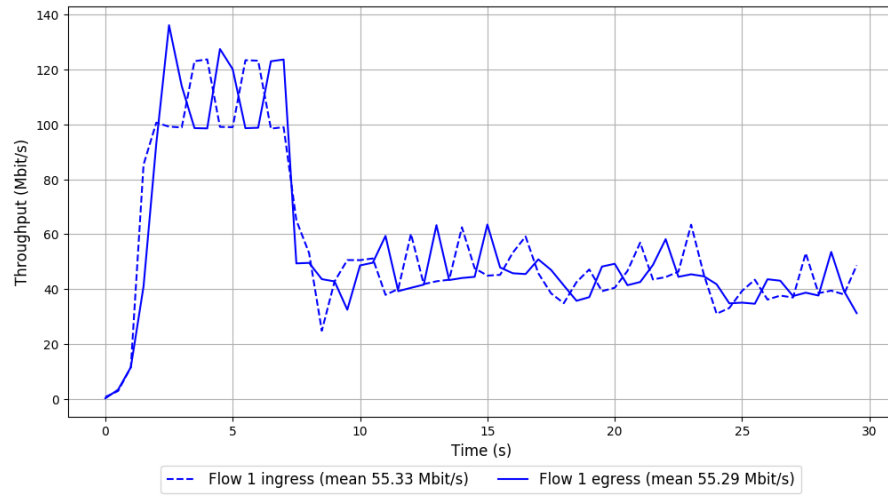
-- Flow 1:

Average throughput: 55.29 Mbit/s

95th percentile per-packet one-way delay: 113.094 ms

Loss rate: 0.81%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2017-11-30 06:54:02

End at: 2017-11-30 06:54:32

Below is generated by plot.py at 2017-11-30 09:03:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 44.50 Mbit/s

95th percentile per-packet one-way delay: 113.846 ms

Loss rate: 0.90%

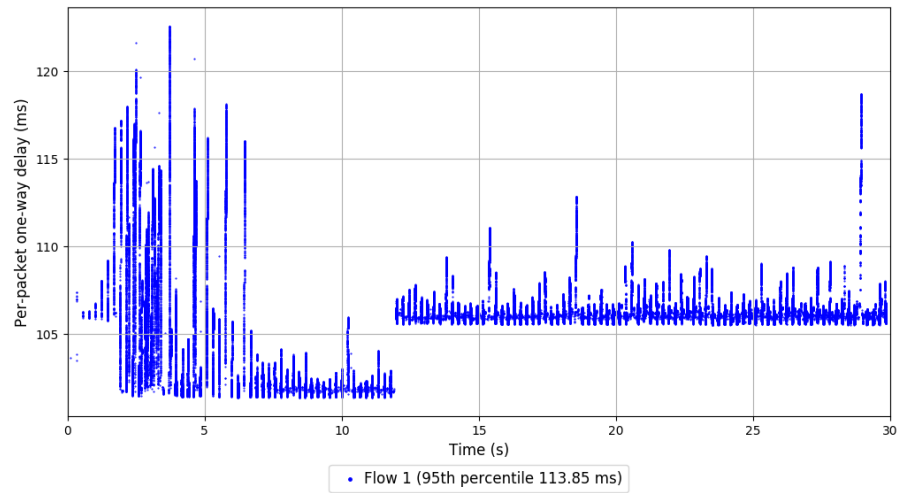
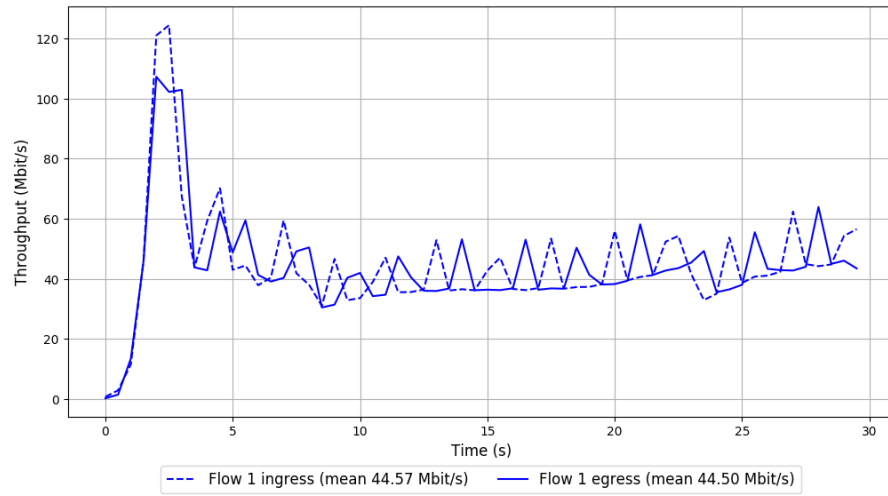
-- Flow 1:

Average throughput: 44.50 Mbit/s

95th percentile per-packet one-way delay: 113.846 ms

Loss rate: 0.90%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2017-11-30 07:04:53

End at: 2017-11-30 07:05:23

Below is generated by plot.py at 2017-11-30 09:03:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 79.62 Mbit/s

95th percentile per-packet one-way delay: 118.886 ms

Loss rate: 0.48%

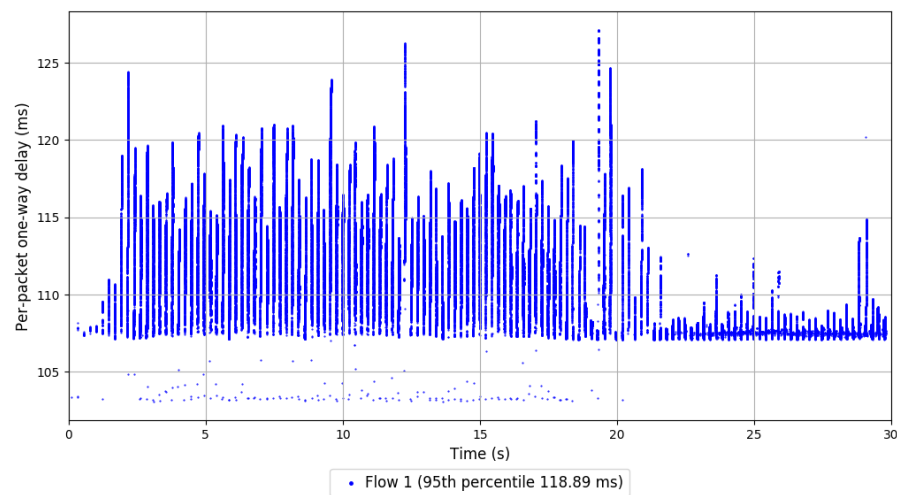
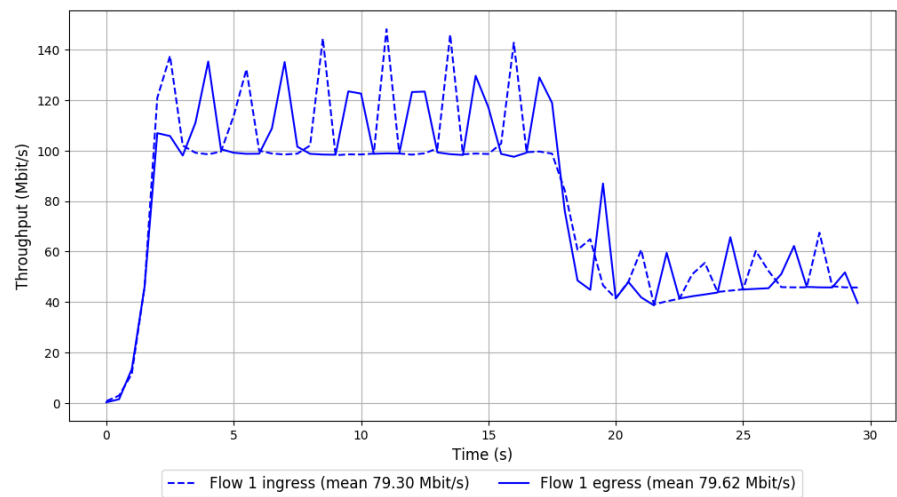
-- Flow 1:

Average throughput: 79.62 Mbit/s

95th percentile per-packet one-way delay: 118.886 ms

Loss rate: 0.48%

Run 10: Report of TCP Cubic — Data Link

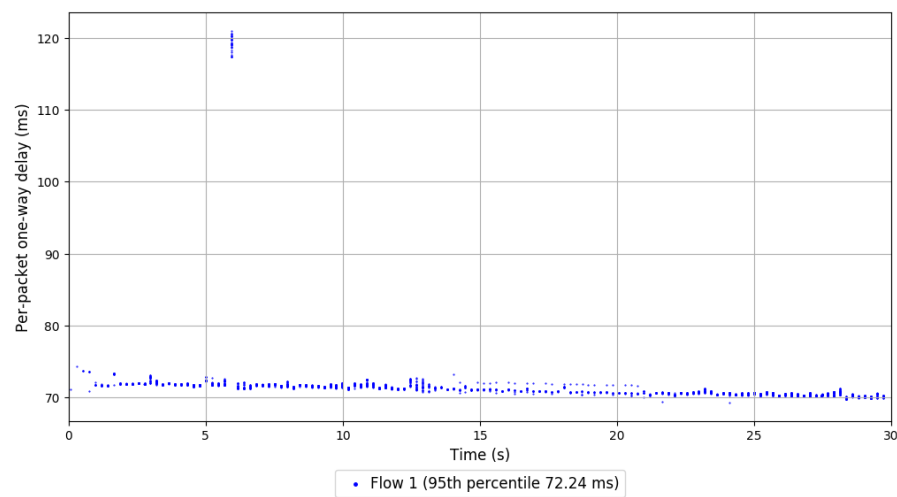
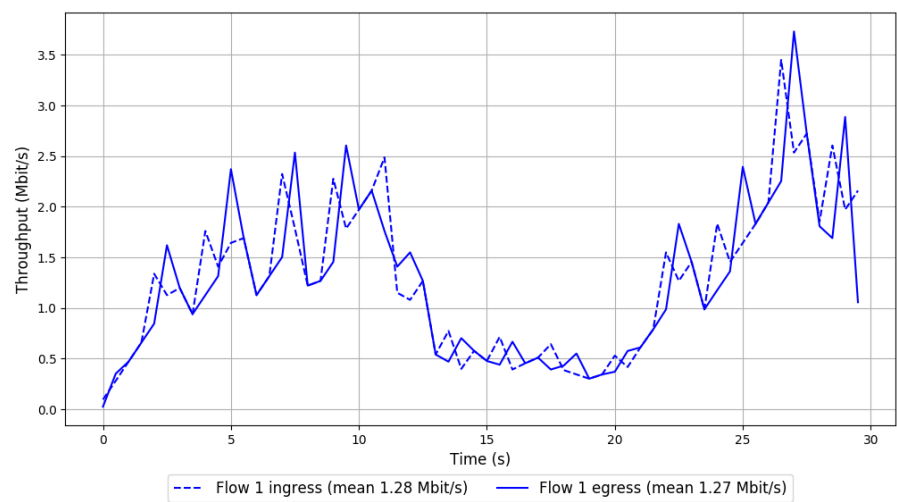


```
Run 1: Statistics of LEDBAT

Start at: 2017-11-30 05:23:33
End at: 2017-11-30 05:24:03

# Below is generated by plot.py at 2017-11-30 09:03:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.27 Mbit/s
95th percentile per-packet one-way delay: 72.237 ms
Loss rate: 1.60%
-- Flow 1:
Average throughput: 1.27 Mbit/s
95th percentile per-packet one-way delay: 72.237 ms
Loss rate: 1.60%
```

Run 1: Report of LEDBAT — Data Link

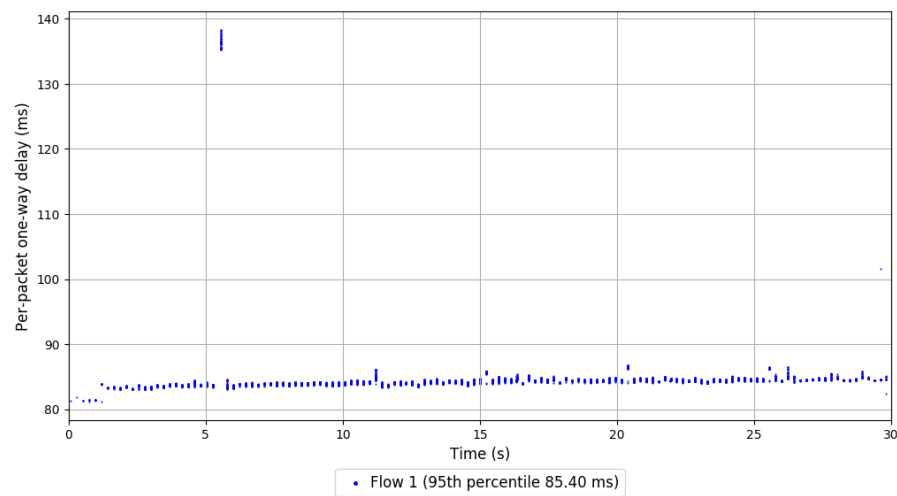
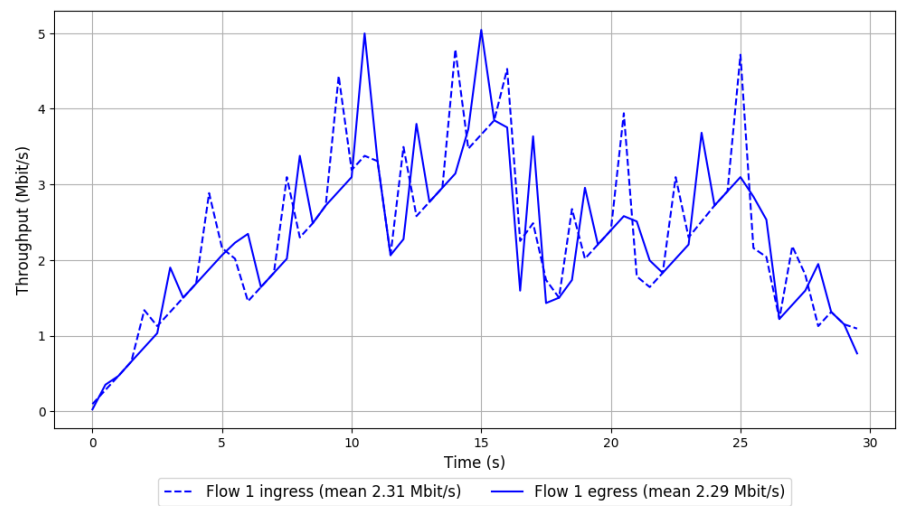


```
Run 2: Statistics of LEDBAT

Start at: 2017-11-30 05:34:23
End at: 2017-11-30 05:34:53

# Below is generated by plot.py at 2017-11-30 09:03:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.29 Mbit/s
95th percentile per-packet one-way delay: 85.401 ms
Loss rate: 1.31%
-- Flow 1:
Average throughput: 2.29 Mbit/s
95th percentile per-packet one-way delay: 85.401 ms
Loss rate: 1.31%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2017-11-30 05:45:35

End at: 2017-11-30 05:46:05

Below is generated by plot.py at 2017-11-30 09:03:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.25 Mbit/s

95th percentile per-packet one-way delay: 94.665 ms

Loss rate: 2.96%

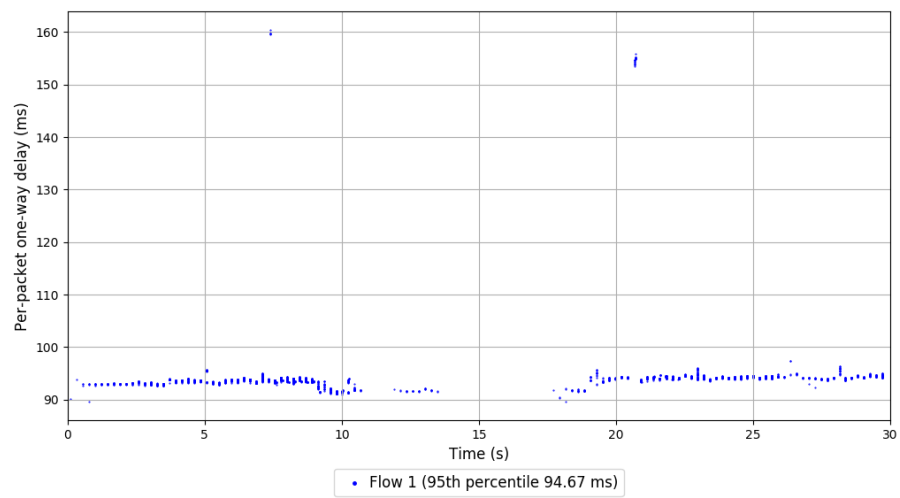
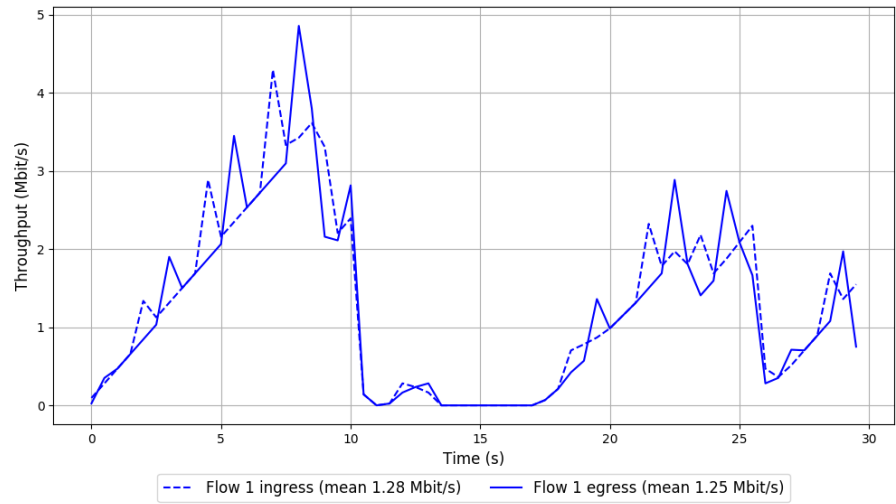
-- Flow 1:

Average throughput: 1.25 Mbit/s

95th percentile per-packet one-way delay: 94.665 ms

Loss rate: 2.96%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2017-11-30 05:56:19

End at: 2017-11-30 05:56:49

Below is generated by plot.py at 2017-11-30 09:03:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.76 Mbit/s

95th percentile per-packet one-way delay: 101.034 ms

Loss rate: 2.25%

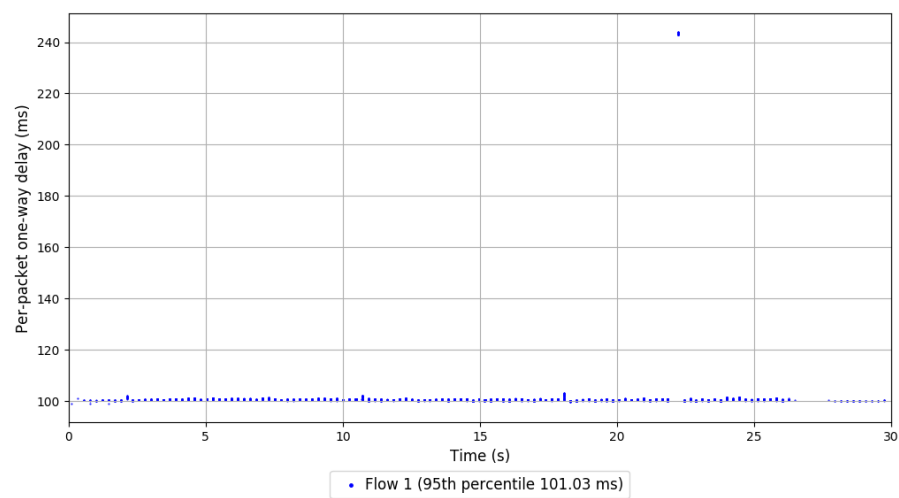
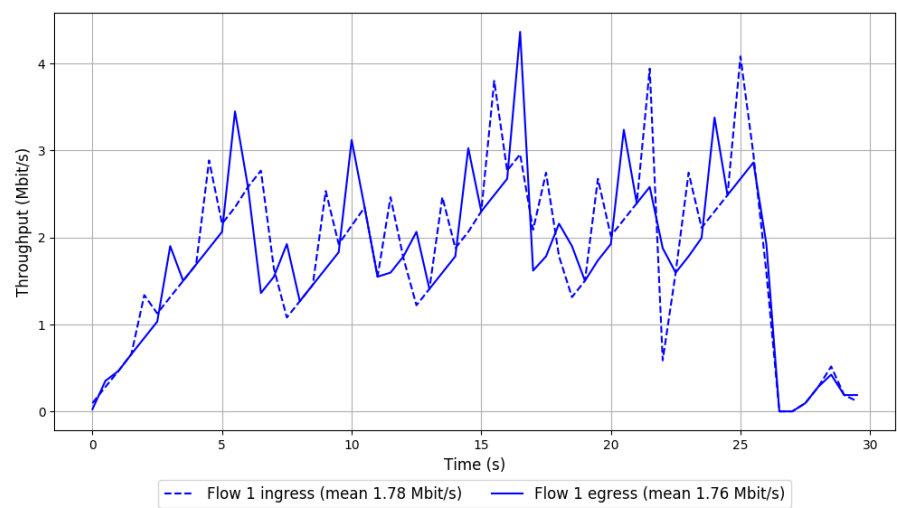
-- Flow 1:

Average throughput: 1.76 Mbit/s

95th percentile per-packet one-way delay: 101.034 ms

Loss rate: 2.25%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2017-11-30 06:07:28

End at: 2017-11-30 06:07:58

Below is generated by plot.py at 2017-11-30 09:03:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.36 Mbit/s

95th percentile per-packet one-way delay: 102.139 ms

Loss rate: 1.62%

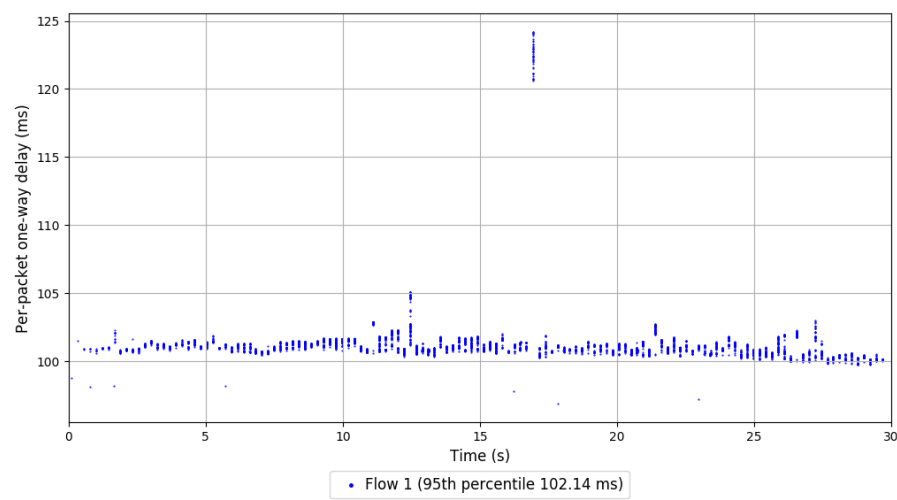
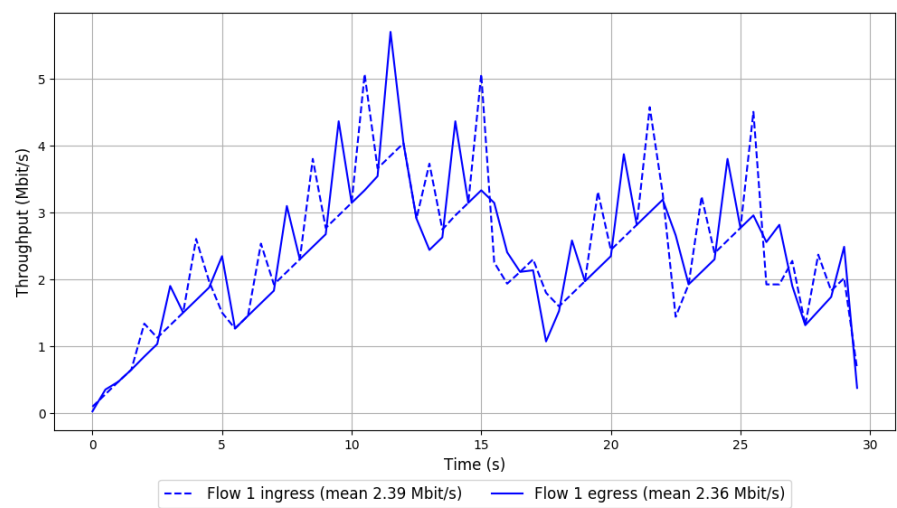
-- Flow 1:

Average throughput: 2.36 Mbit/s

95th percentile per-packet one-way delay: 102.139 ms

Loss rate: 1.62%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2017-11-30 06:18:15

End at: 2017-11-30 06:18:45

Below is generated by plot.py at 2017-11-30 09:03:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.05 Mbit/s

95th percentile per-packet one-way delay: 106.494 ms

Loss rate: 1.52%

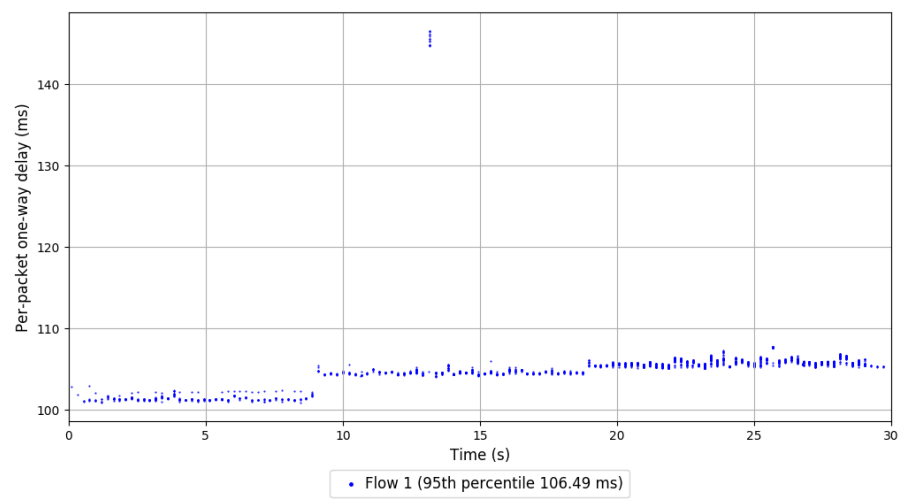
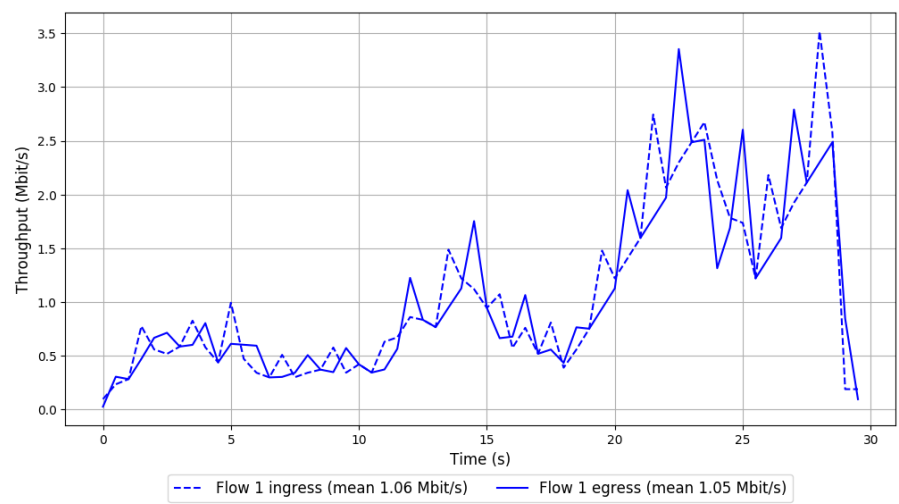
-- Flow 1:

Average throughput: 1.05 Mbit/s

95th percentile per-packet one-way delay: 106.494 ms

Loss rate: 1.52%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2017-11-30 06:29:15

End at: 2017-11-30 06:29:45

Below is generated by plot.py at 2017-11-30 09:03:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.52 Mbit/s

95th percentile per-packet one-way delay: 110.238 ms

Loss rate: 1.76%

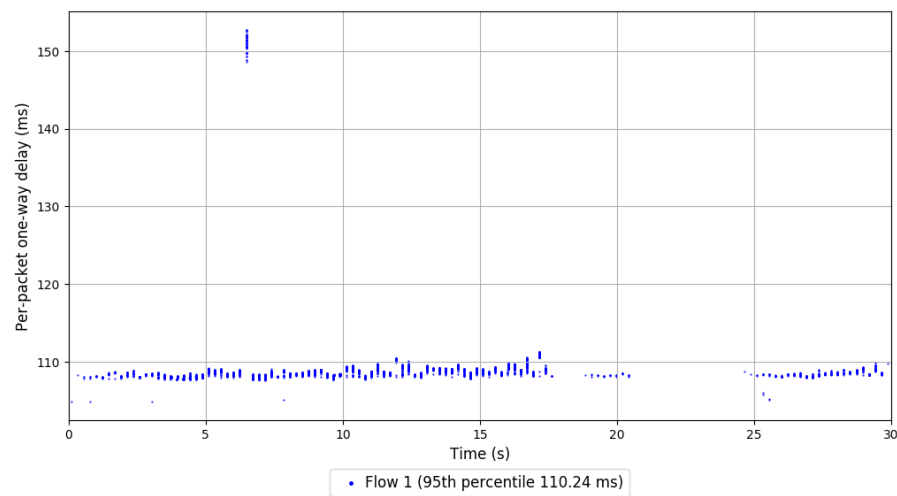
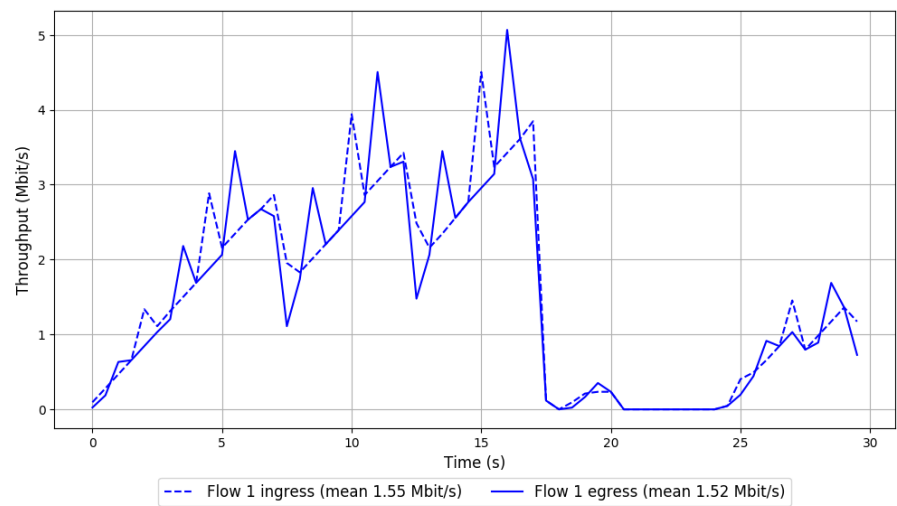
-- Flow 1:

Average throughput: 1.52 Mbit/s

95th percentile per-packet one-way delay: 110.238 ms

Loss rate: 1.76%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2017-11-30 06:40:13

End at: 2017-11-30 06:40:43

Below is generated by plot.py at 2017-11-30 09:03:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.64 Mbit/s

95th percentile per-packet one-way delay: 109.211 ms

Loss rate: 2.81%

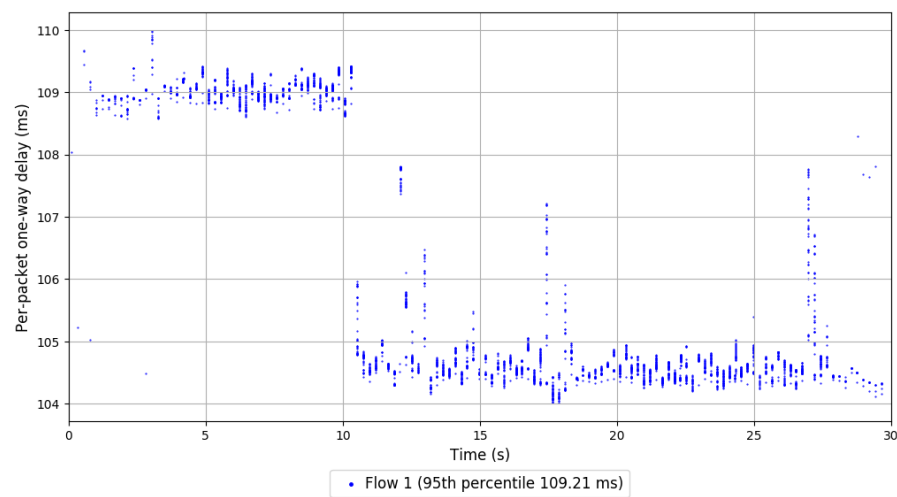
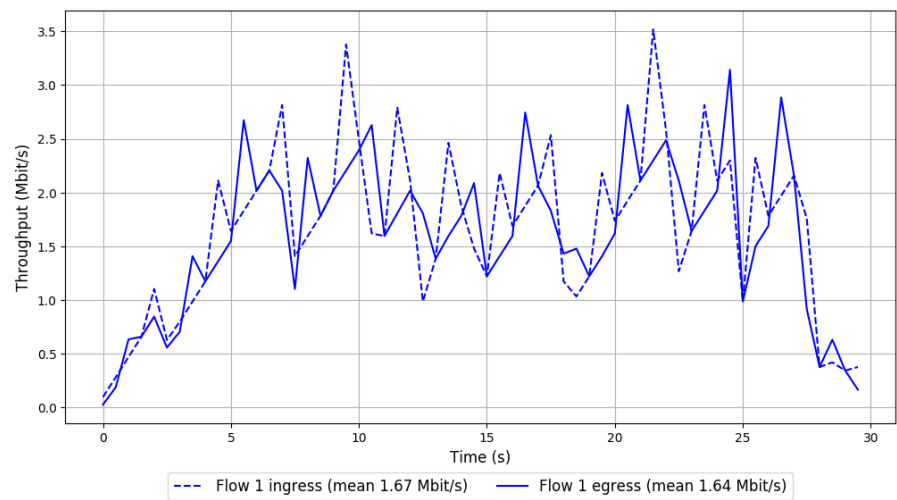
-- Flow 1:

Average throughput: 1.64 Mbit/s

95th percentile per-packet one-way delay: 109.211 ms

Loss rate: 2.81%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2017-11-30 06:51:13

End at: 2017-11-30 06:51:43

Below is generated by plot.py at 2017-11-30 09:03:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.10 Mbit/s

95th percentile per-packet one-way delay: 103.277 ms

Loss rate: 2.58%

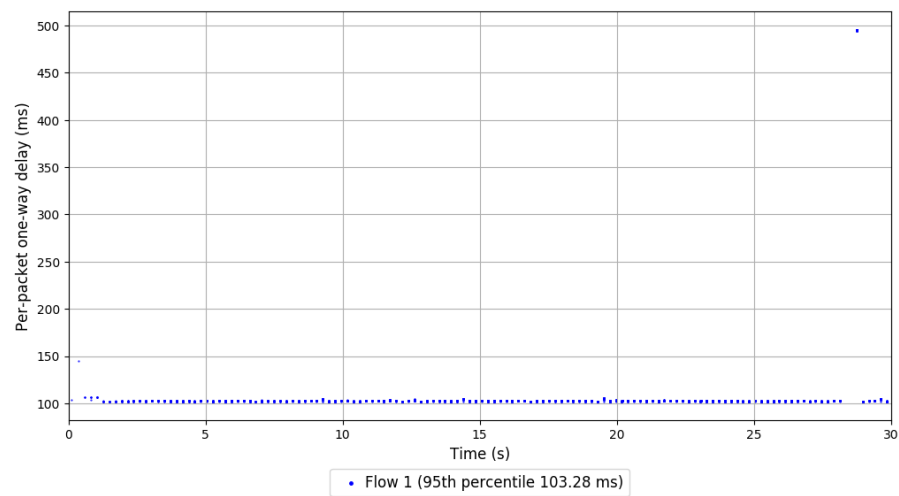
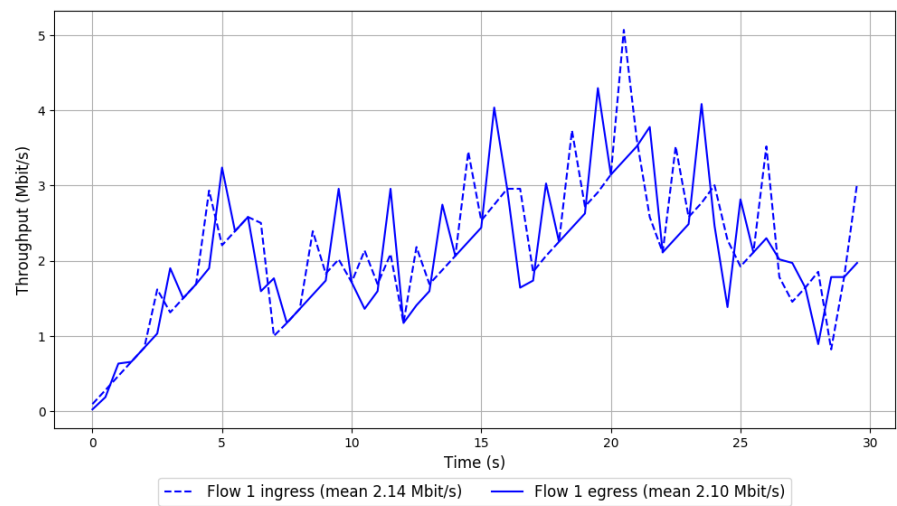
-- Flow 1:

Average throughput: 2.10 Mbit/s

95th percentile per-packet one-way delay: 103.277 ms

Loss rate: 2.58%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2017-11-30 07:02:04

End at: 2017-11-30 07:02:34

Below is generated by plot.py at 2017-11-30 09:03:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.83 Mbit/s

95th percentile per-packet one-way delay: 108.288 ms

Loss rate: 1.09%

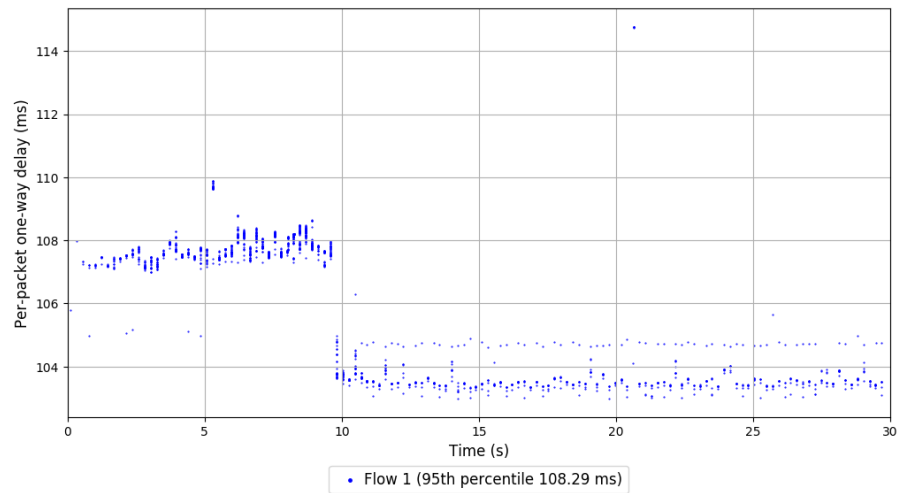
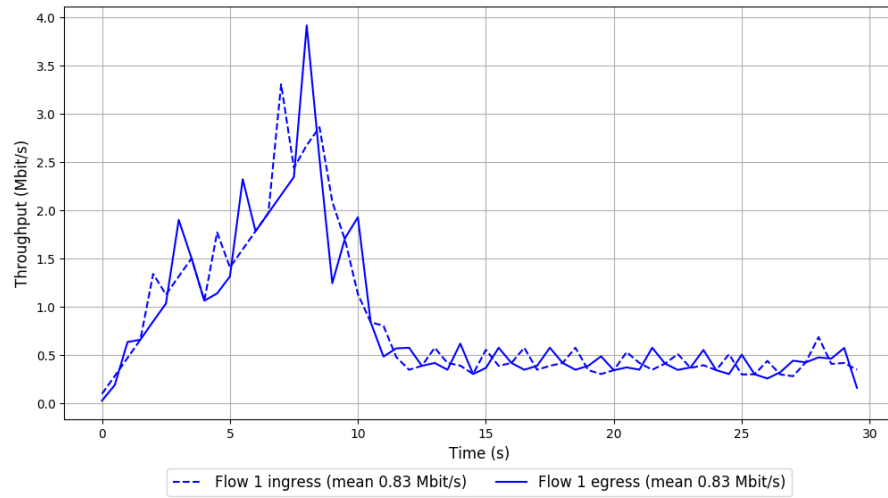
-- Flow 1:

Average throughput: 0.83 Mbit/s

95th percentile per-packet one-way delay: 108.288 ms

Loss rate: 1.09%

Run 10: Report of LEDBAT — Data Link

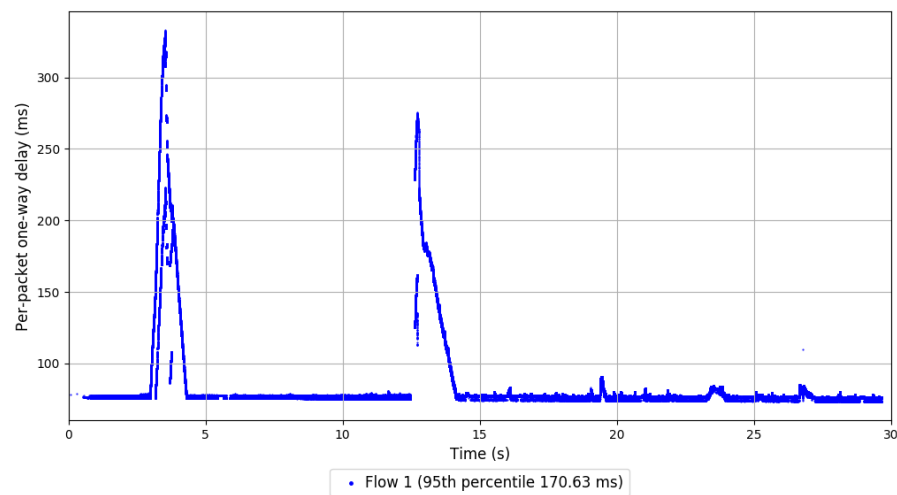
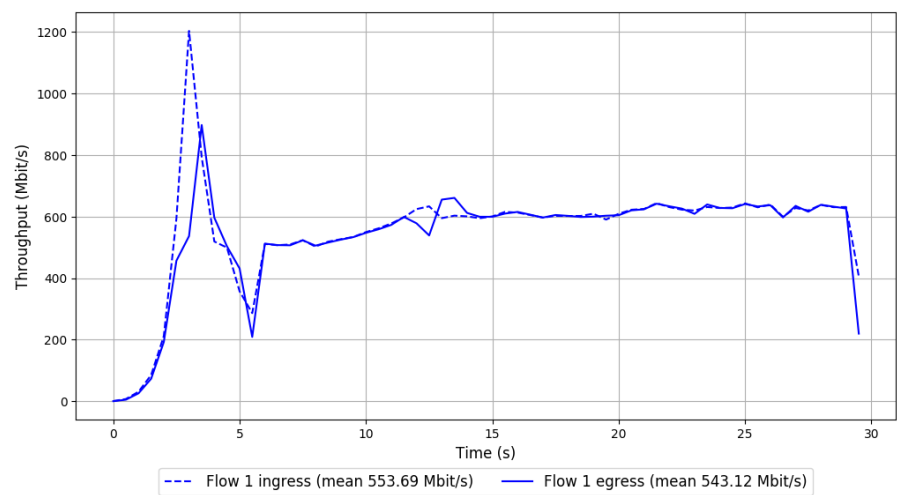


```
Run 1: Statistics of PCC

Start at: 2017-11-30 05:22:29
End at: 2017-11-30 05:22:59

# Below is generated by plot.py at 2017-11-30 09:13:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 543.12 Mbit/s
95th percentile per-packet one-way delay: 170.626 ms
Loss rate: 2.66%
-- Flow 1:
Average throughput: 543.12 Mbit/s
95th percentile per-packet one-way delay: 170.626 ms
Loss rate: 2.66%
```

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2017-11-30 05:33:19

End at: 2017-11-30 05:33:49

Below is generated by plot.py at 2017-11-30 09:14:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 560.60 Mbit/s

95th percentile per-packet one-way delay: 152.914 ms

Loss rate: 1.74%

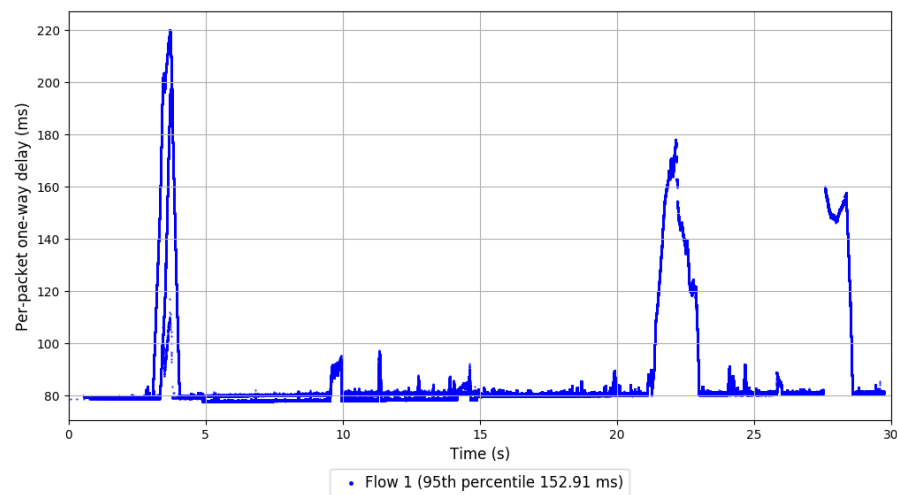
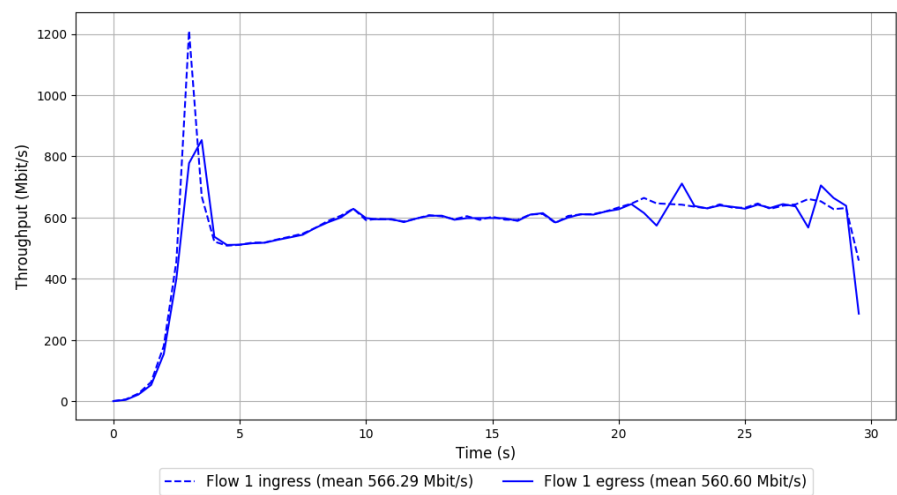
-- Flow 1:

Average throughput: 560.60 Mbit/s

95th percentile per-packet one-way delay: 152.914 ms

Loss rate: 1.74%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2017-11-30 05:44:32

End at: 2017-11-30 05:45:02

Below is generated by plot.py at 2017-11-30 09:14:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 491.23 Mbit/s

95th percentile per-packet one-way delay: 191.693 ms

Loss rate: 4.15%

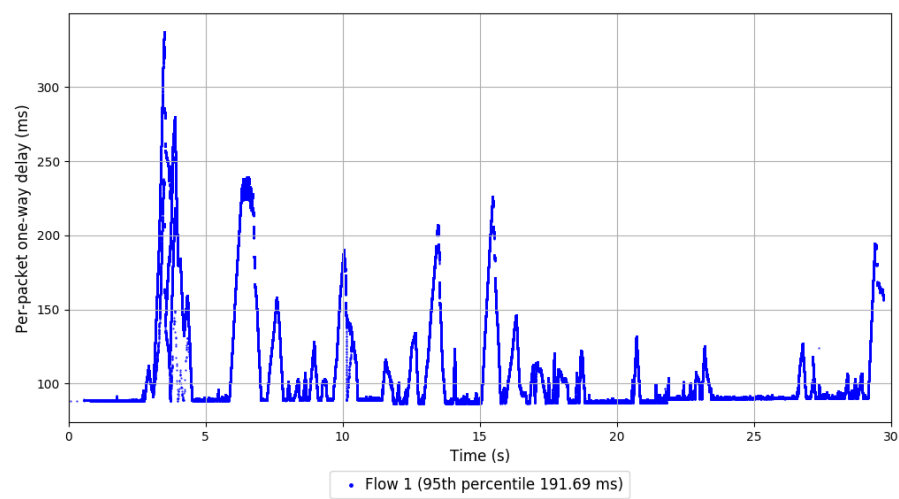
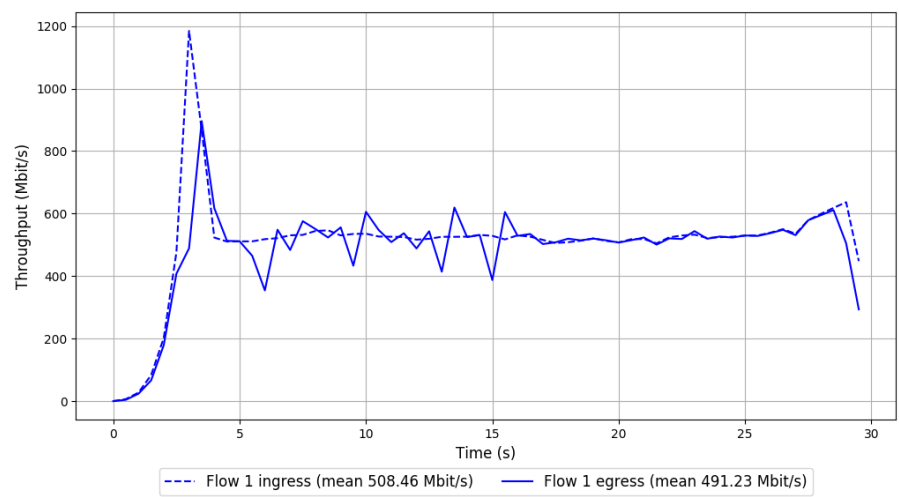
-- Flow 1:

Average throughput: 491.23 Mbit/s

95th percentile per-packet one-way delay: 191.693 ms

Loss rate: 4.15%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2017-11-30 05:55:24

End at: 2017-11-30 05:55:54

Below is generated by plot.py at 2017-11-30 09:14:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 325.85 Mbit/s

95th percentile per-packet one-way delay: 157.600 ms

Loss rate: 1.68%

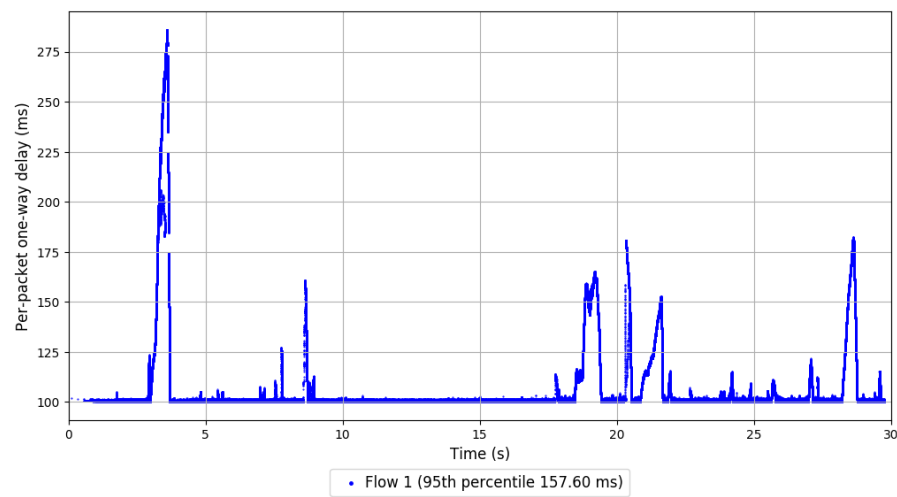
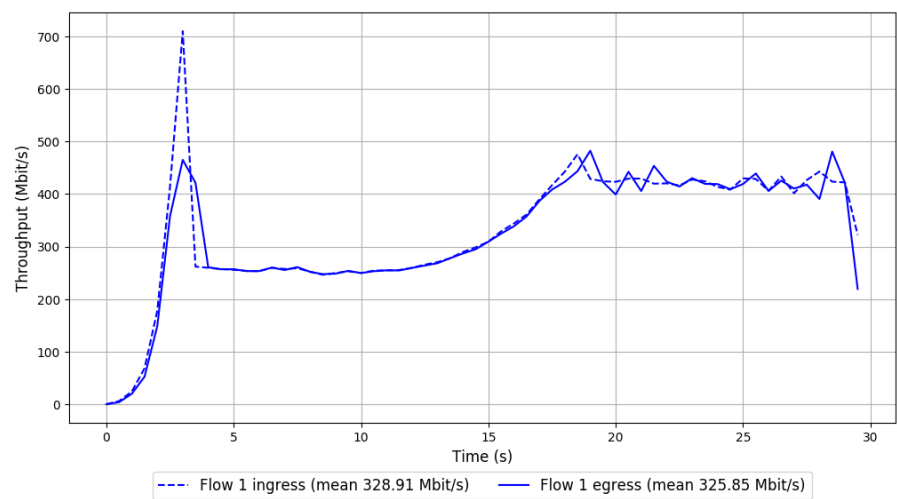
-- Flow 1:

Average throughput: 325.85 Mbit/s

95th percentile per-packet one-way delay: 157.600 ms

Loss rate: 1.68%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2017-11-30 06:06:33

End at: 2017-11-30 06:07:03

Below is generated by plot.py at 2017-11-30 09:14:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 327.26 Mbit/s

95th percentile per-packet one-way delay: 158.160 ms

Loss rate: 3.18%

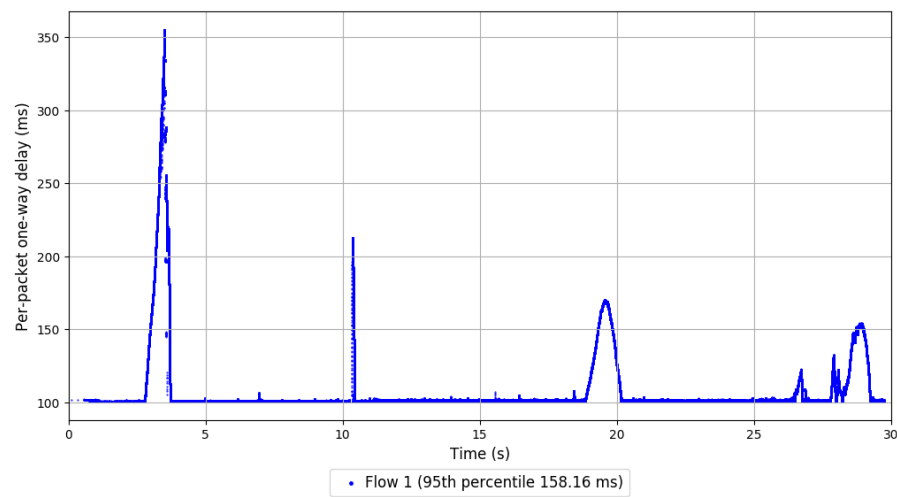
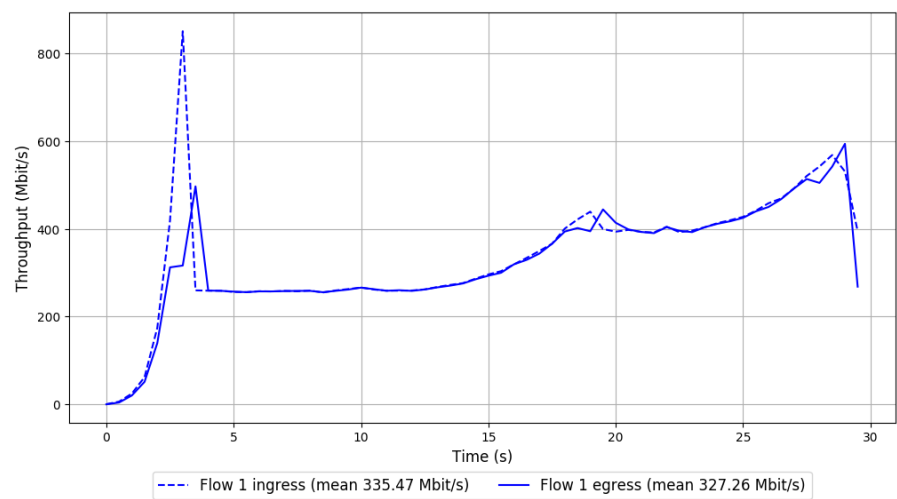
-- Flow 1:

Average throughput: 327.26 Mbit/s

95th percentile per-packet one-way delay: 158.160 ms

Loss rate: 3.18%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2017-11-30 06:17:15

End at: 2017-11-30 06:17:45

Below is generated by plot.py at 2017-11-30 09:14:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 404.97 Mbit/s

95th percentile per-packet one-way delay: 237.129 ms

Loss rate: 6.52%

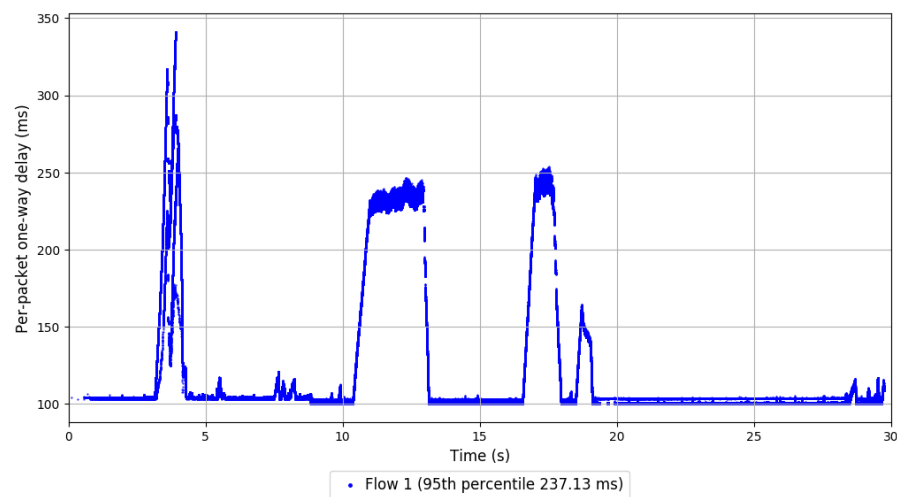
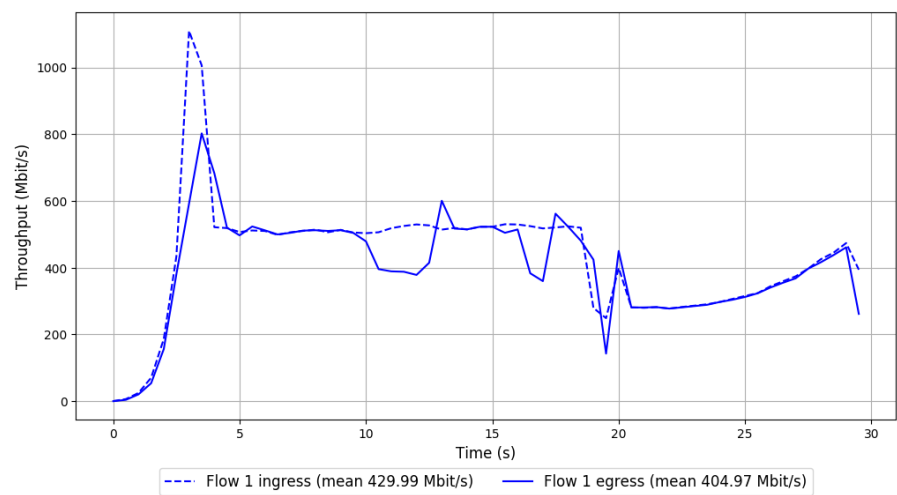
-- Flow 1:

Average throughput: 404.97 Mbit/s

95th percentile per-packet one-way delay: 237.129 ms

Loss rate: 6.52%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2017-11-30 06:28:11

End at: 2017-11-30 06:28:41

Below is generated by plot.py at 2017-11-30 09:14:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 537.47 Mbit/s

95th percentile per-packet one-way delay: 158.026 ms

Loss rate: 2.73%

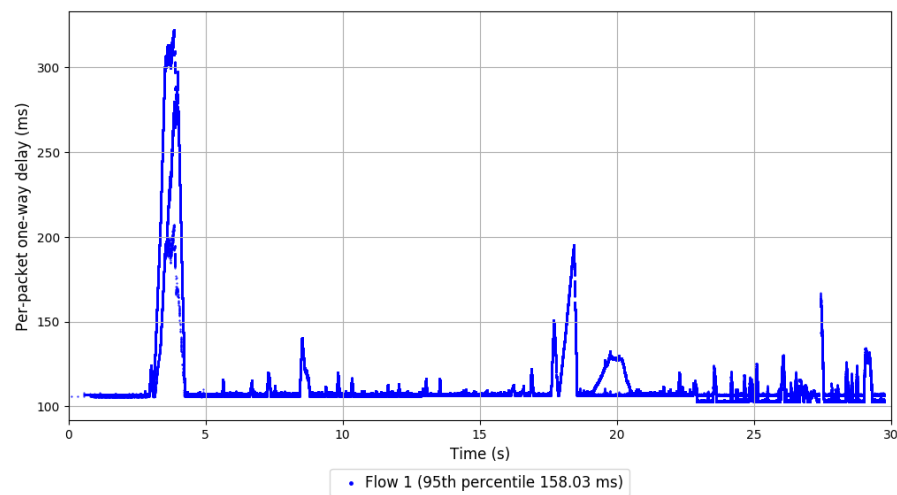
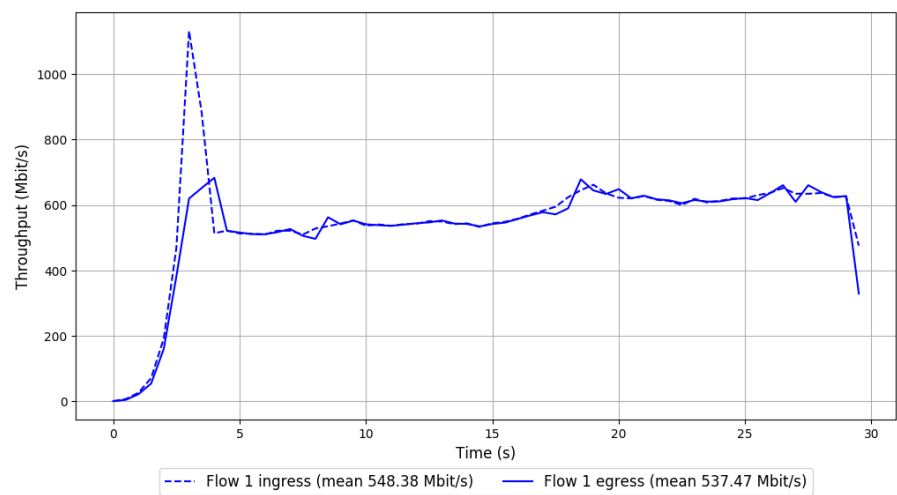
-- Flow 1:

Average throughput: 537.47 Mbit/s

95th percentile per-packet one-way delay: 158.026 ms

Loss rate: 2.73%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2017-11-30 06:39:09

End at: 2017-11-30 06:39:39

Below is generated by plot.py at 2017-11-30 09:15:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 543.52 Mbit/s

95th percentile per-packet one-way delay: 190.703 ms

Loss rate: 2.49%

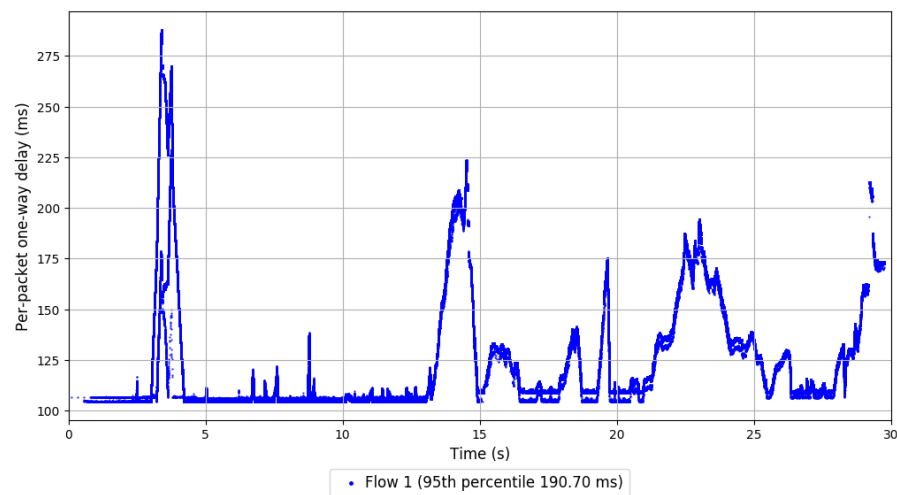
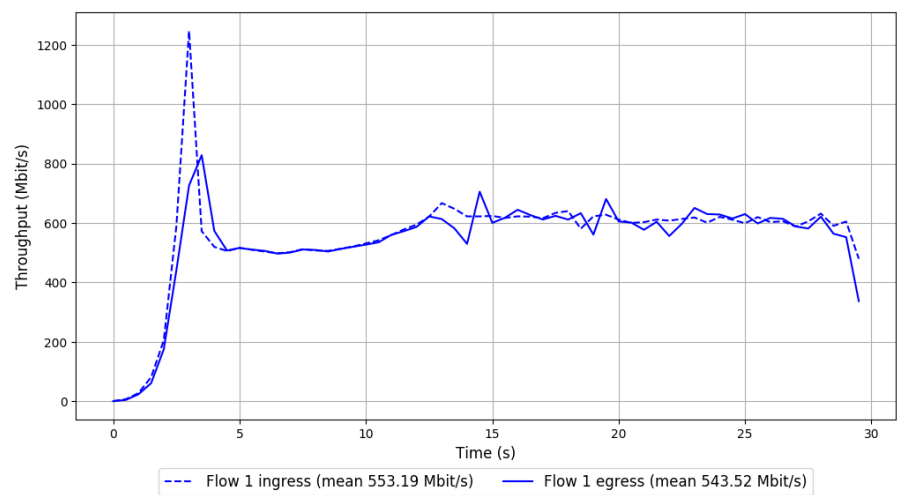
-- Flow 1:

Average throughput: 543.52 Mbit/s

95th percentile per-packet one-way delay: 190.703 ms

Loss rate: 2.49%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2017-11-30 06:50:10

End at: 2017-11-30 06:50:40

Below is generated by plot.py at 2017-11-30 09:21:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 522.42 Mbit/s

95th percentile per-packet one-way delay: 185.088 ms

Loss rate: 2.33%

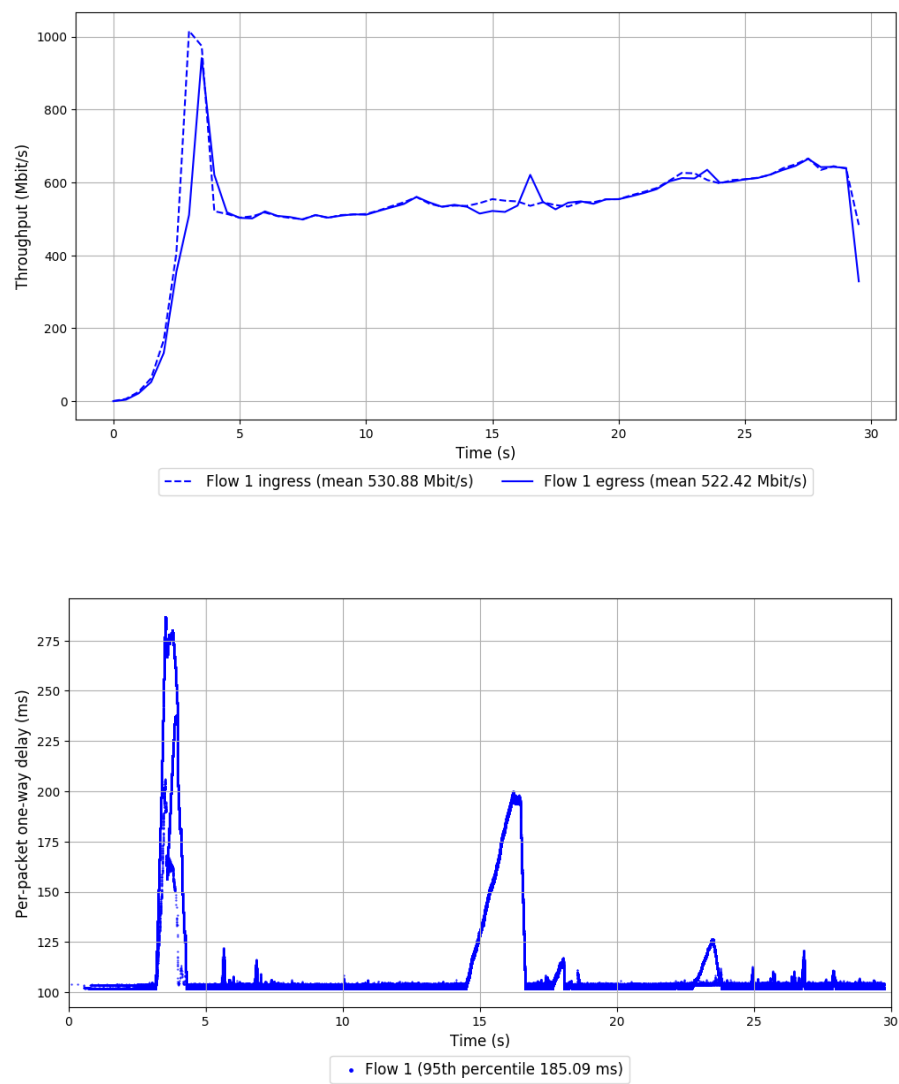
-- Flow 1:

Average throughput: 522.42 Mbit/s

95th percentile per-packet one-way delay: 185.088 ms

Loss rate: 2.33%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2017-11-30 07:01:07

End at: 2017-11-30 07:01:37

Below is generated by plot.py at 2017-11-30 09:21:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 361.02 Mbit/s

95th percentile per-packet one-way delay: 183.665 ms

Loss rate: 3.41%

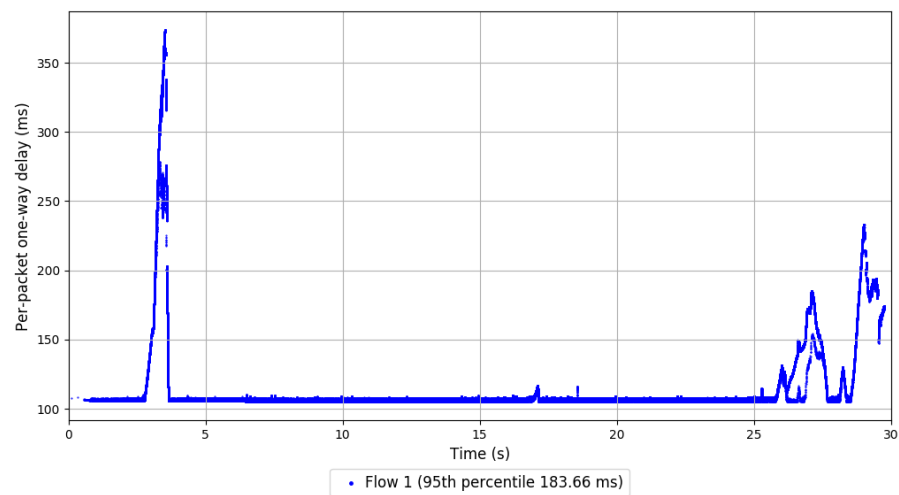
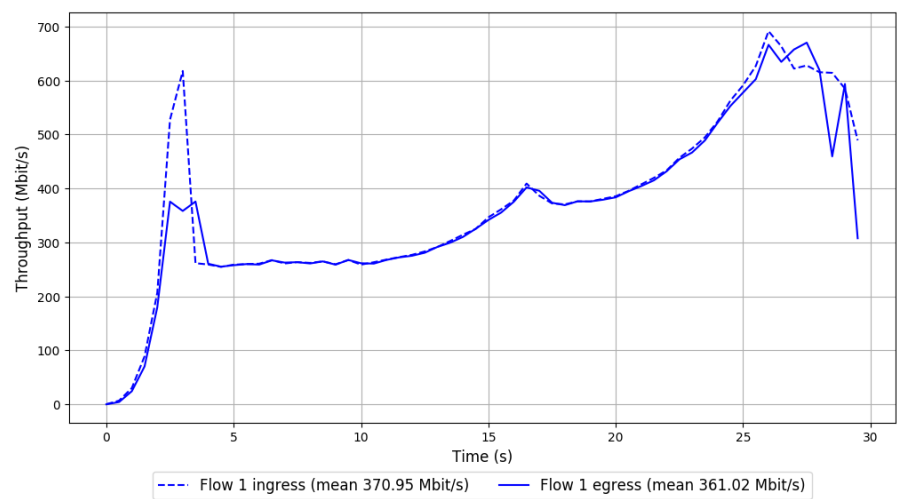
-- Flow 1:

Average throughput: 361.02 Mbit/s

95th percentile per-packet one-way delay: 183.665 ms

Loss rate: 3.41%

Run 10: Report of PCC — Data Link

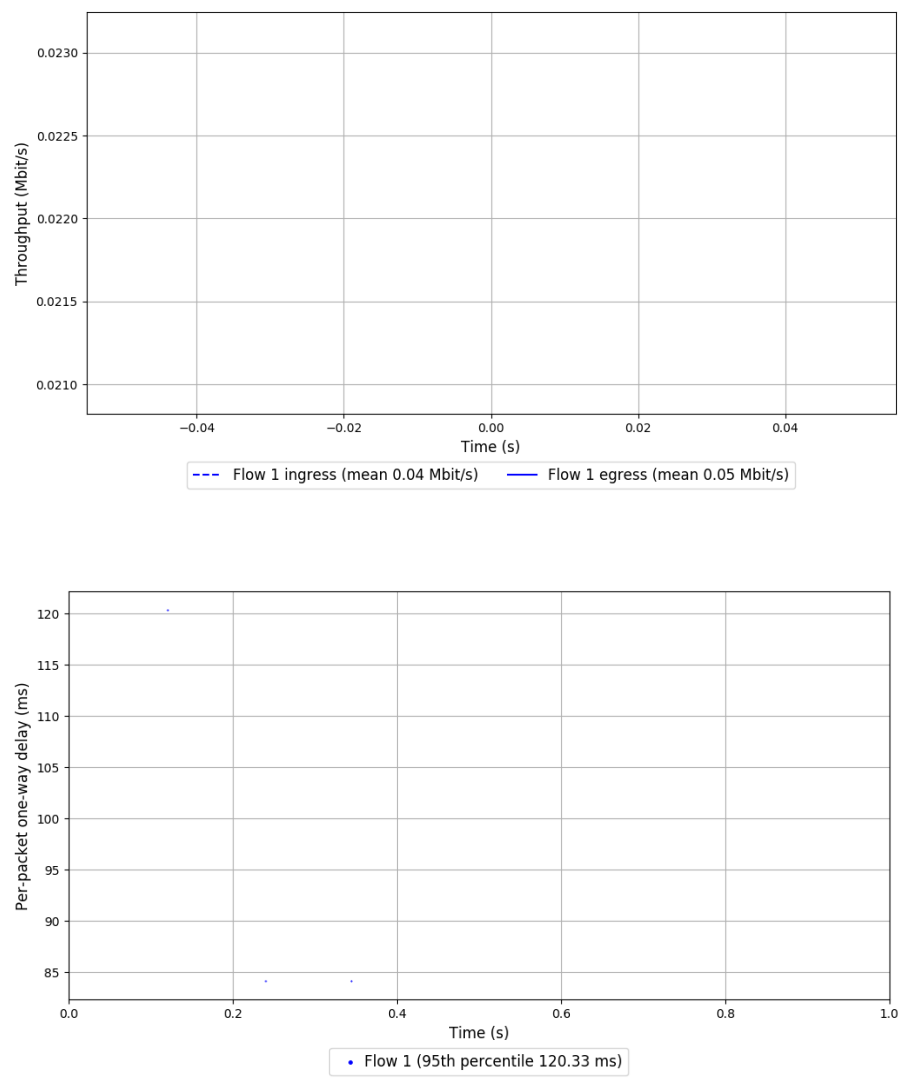


Run 1: Statistics of QUIC Cubic

Start at: 2017-11-30 05:20:16

End at: 2017-11-30 05:20:46

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

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

End at: 2017-11-30 05:31:18

Below is generated by plot.py at 2017-11-30 09:21:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 67.74 Mbit/s

95th percentile per-packet one-way delay: 70.844 ms

Loss rate: 0.97%

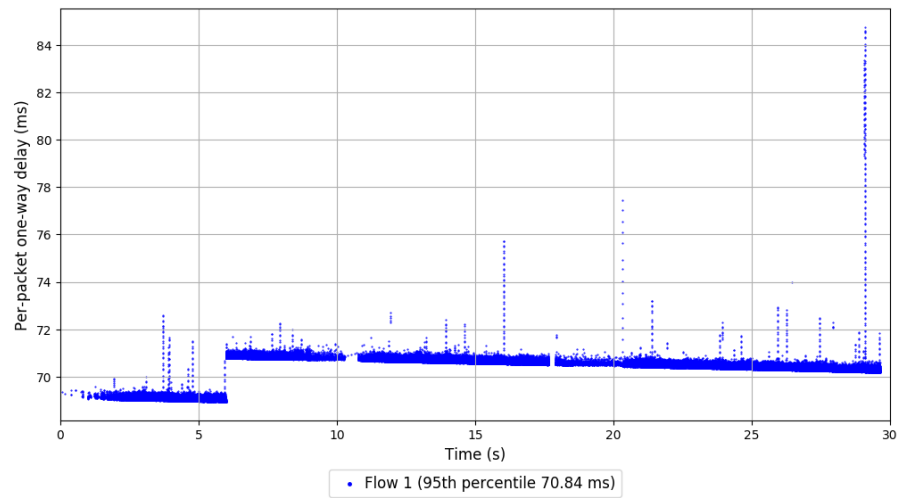
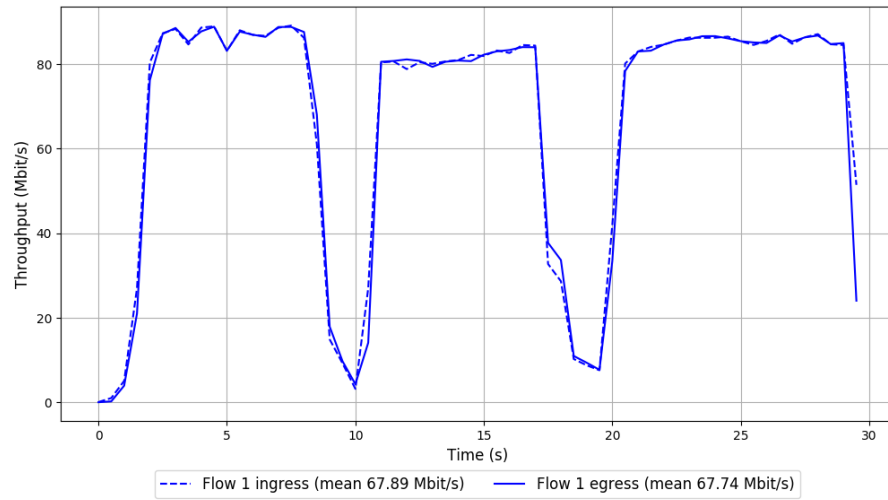
-- Flow 1:

Average throughput: 67.74 Mbit/s

95th percentile per-packet one-way delay: 70.844 ms

Loss rate: 0.97%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2017-11-30 05:41:59

End at: 2017-11-30 05:42:29

Below is generated by plot.py at 2017-11-30 09:21:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 59.70 Mbit/s

95th percentile per-packet one-way delay: 82.877 ms

Loss rate: 1.07%

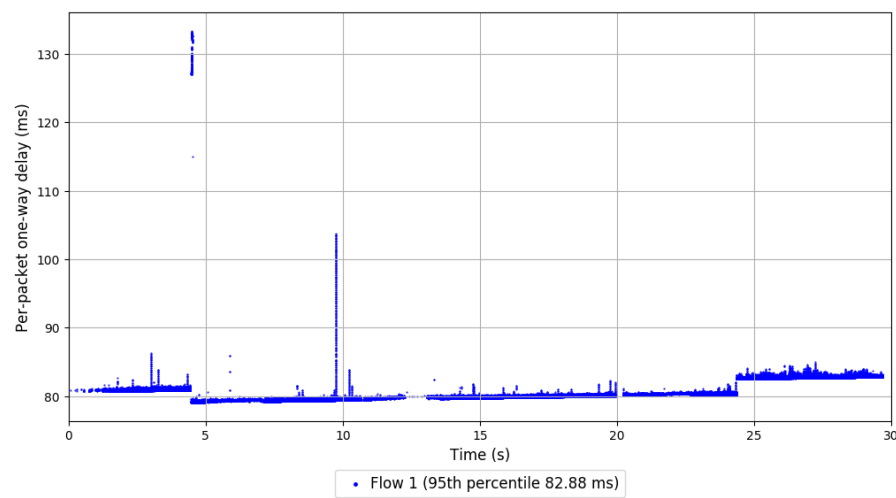
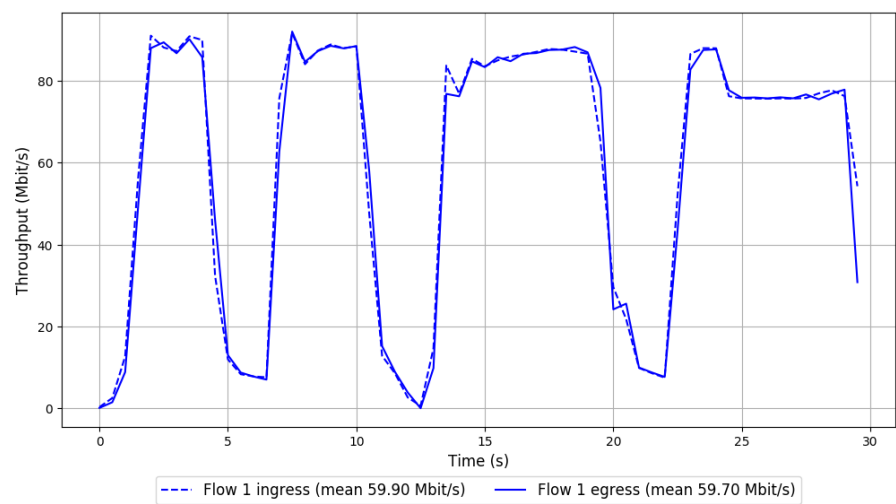
-- Flow 1:

Average throughput: 59.70 Mbit/s

95th percentile per-packet one-way delay: 82.877 ms

Loss rate: 1.07%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2017-11-30 05:52:56

End at: 2017-11-30 05:53:26

Below is generated by plot.py at 2017-11-30 09:21:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 56.14 Mbit/s

95th percentile per-packet one-way delay: 100.759 ms

Loss rate: 1.09%

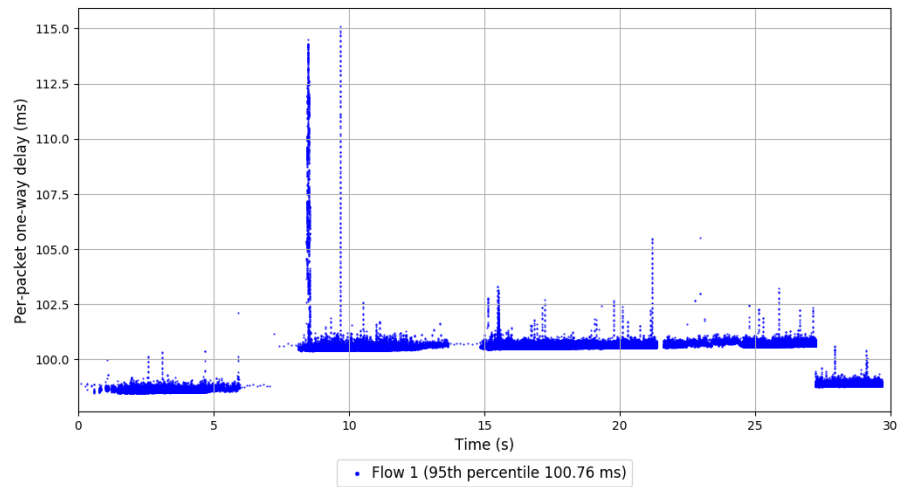
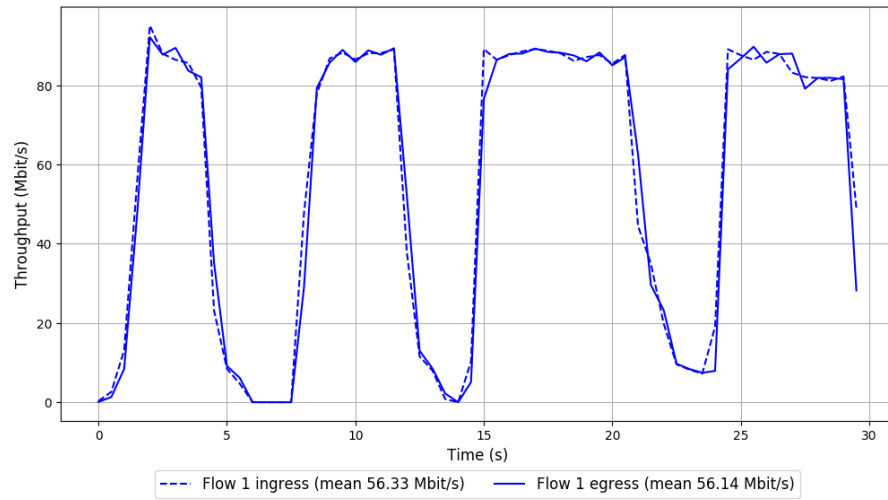
-- Flow 1:

Average throughput: 56.14 Mbit/s

95th percentile per-packet one-way delay: 100.759 ms

Loss rate: 1.09%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2017-11-30 06:04:01

End at: 2017-11-30 06:04:31

Below is generated by plot.py at 2017-11-30 09:21:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 49.44 Mbit/s

95th percentile per-packet one-way delay: 99.336 ms

Loss rate: 1.16%

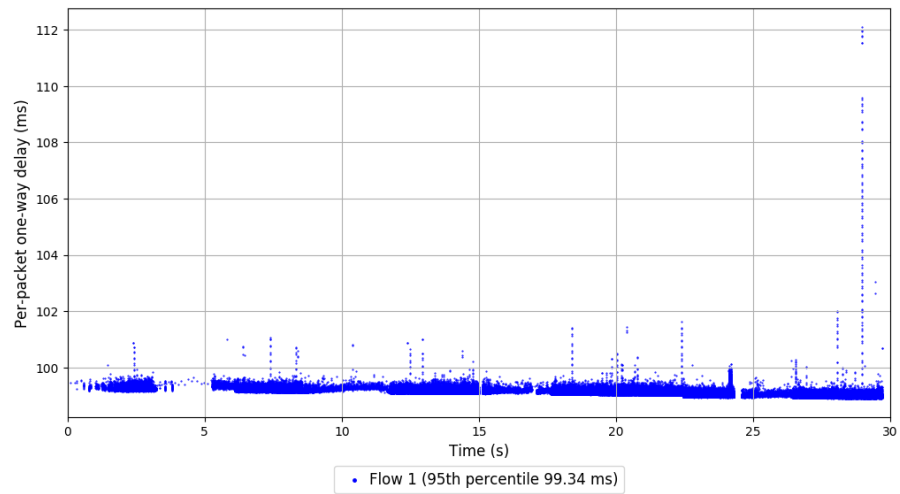
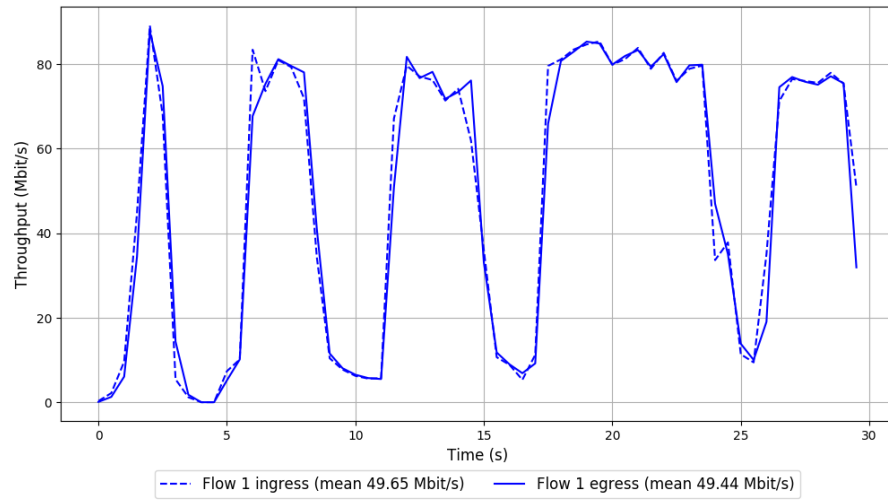
-- Flow 1:

Average throughput: 49.44 Mbit/s

95th percentile per-packet one-way delay: 99.336 ms

Loss rate: 1.16%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2017-11-30 06:14:44

End at: 2017-11-30 06:15:14

Below is generated by plot.py at 2017-11-30 09:21:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 63.25 Mbit/s

95th percentile per-packet one-way delay: 101.545 ms

Loss rate: 0.85%

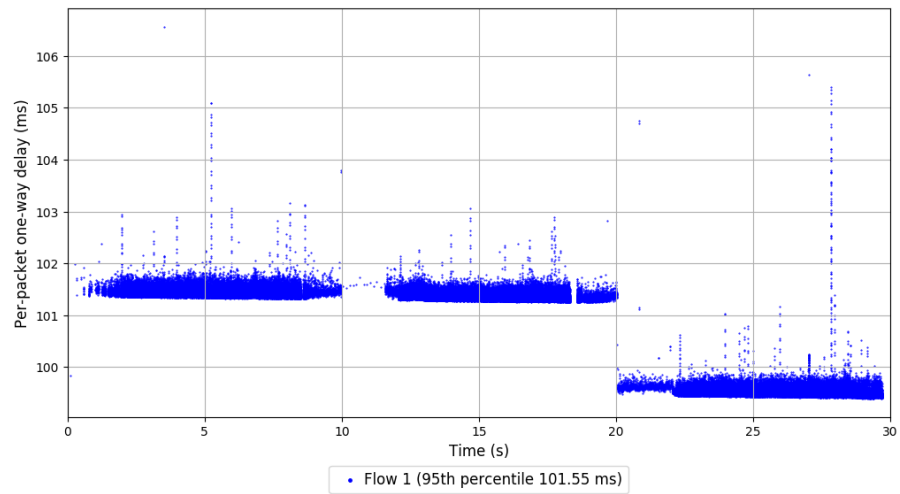
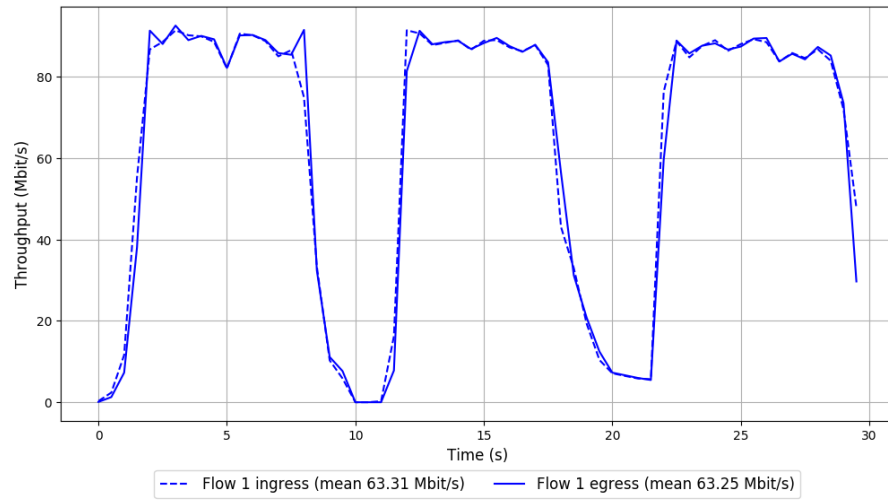
-- Flow 1:

Average throughput: 63.25 Mbit/s

95th percentile per-packet one-way delay: 101.545 ms

Loss rate: 0.85%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2017-11-30 06:25:39

End at: 2017-11-30 06:26:09

Below is generated by plot.py at 2017-11-30 09:21:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 55.58 Mbit/s

95th percentile per-packet one-way delay: 106.887 ms

Loss rate: 0.97%

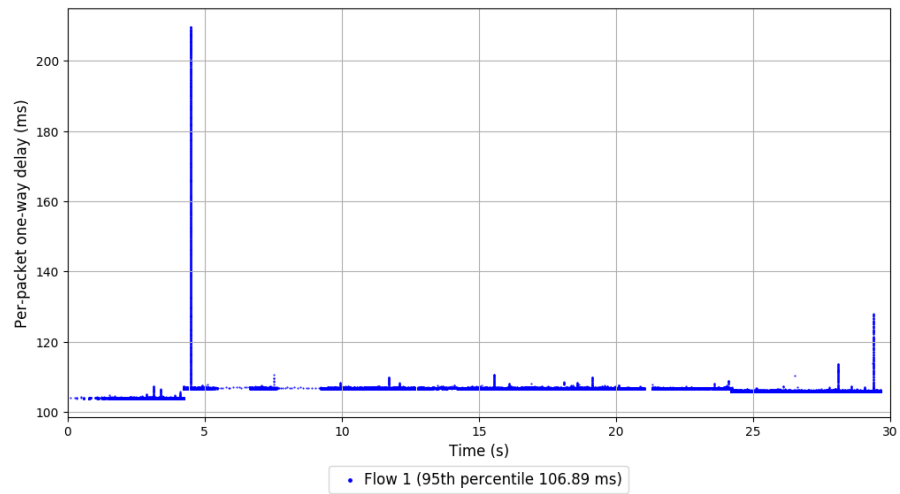
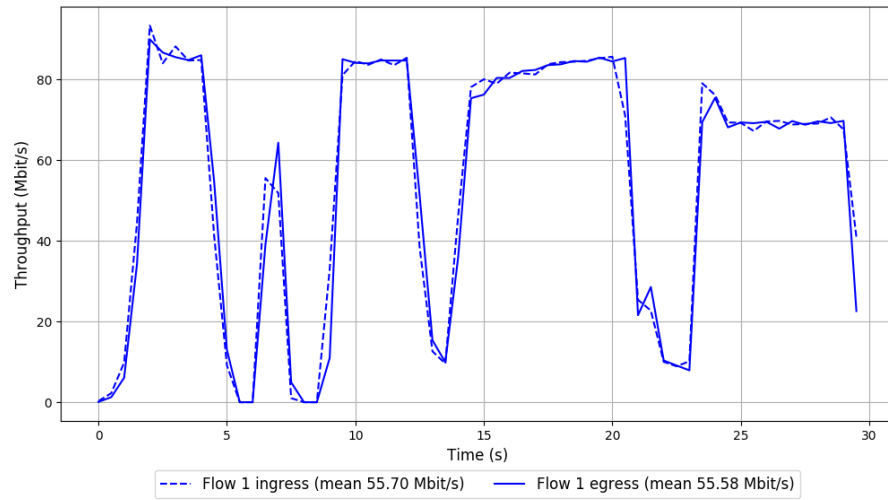
-- Flow 1:

Average throughput: 55.58 Mbit/s

95th percentile per-packet one-way delay: 106.887 ms

Loss rate: 0.97%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2017-11-30 06:36:39

End at: 2017-11-30 06:37:09

Below is generated by plot.py at 2017-11-30 09:21:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 68.20 Mbit/s

95th percentile per-packet one-way delay: 108.745 ms

Loss rate: 0.93%

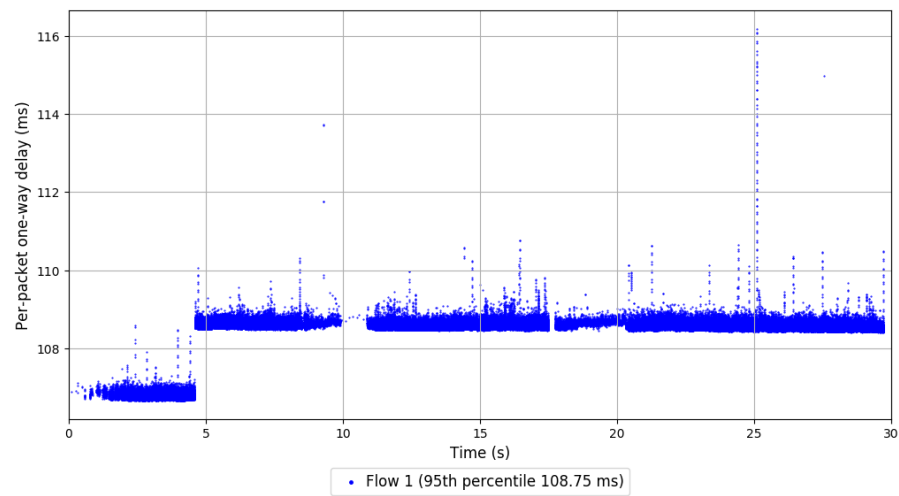
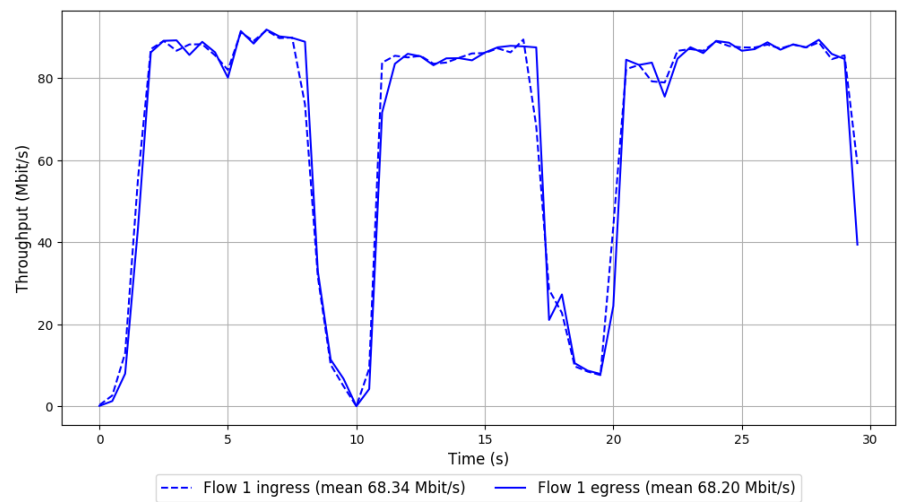
-- Flow 1:

Average throughput: 68.20 Mbit/s

95th percentile per-packet one-way delay: 108.745 ms

Loss rate: 0.93%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2017-11-30 06:47:36

End at: 2017-11-30 06:48:06

Below is generated by plot.py at 2017-11-30 09:21:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 69.48 Mbit/s

95th percentile per-packet one-way delay: 107.269 ms

Loss rate: 0.91%

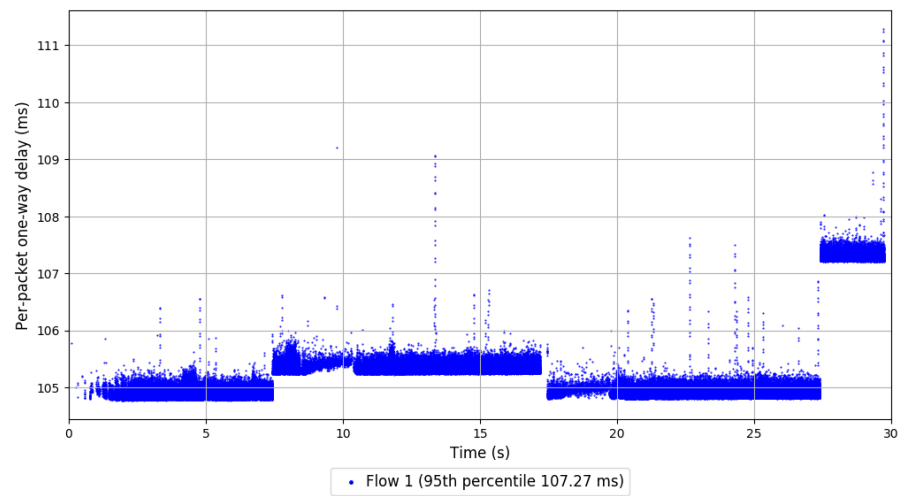
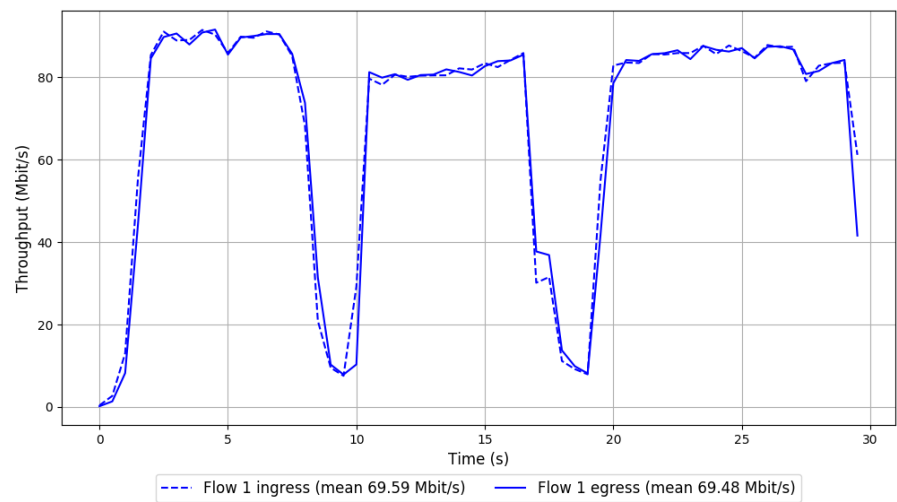
-- Flow 1:

Average throughput: 69.48 Mbit/s

95th percentile per-packet one-way delay: 107.269 ms

Loss rate: 0.91%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2017-11-30 06:58:34

End at: 2017-11-30 06:59:04

Below is generated by plot.py at 2017-11-30 09:21:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 46.59 Mbit/s

95th percentile per-packet one-way delay: 105.953 ms

Loss rate: 1.12%

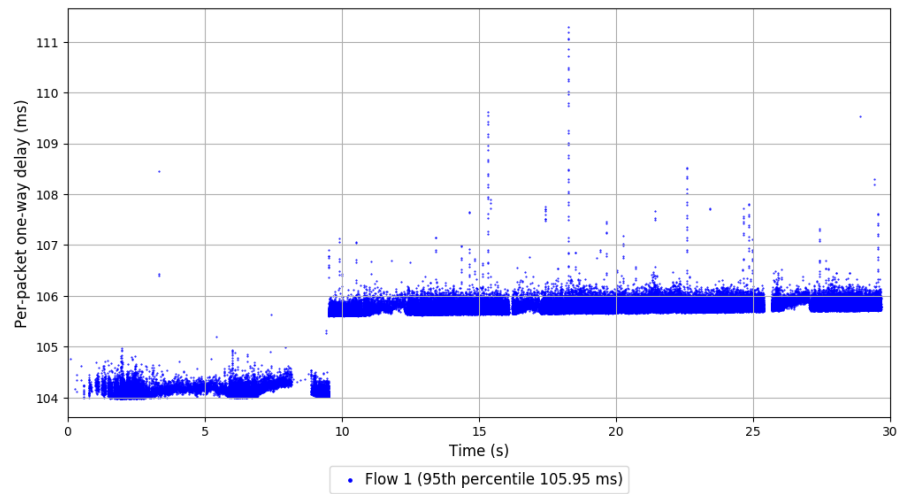
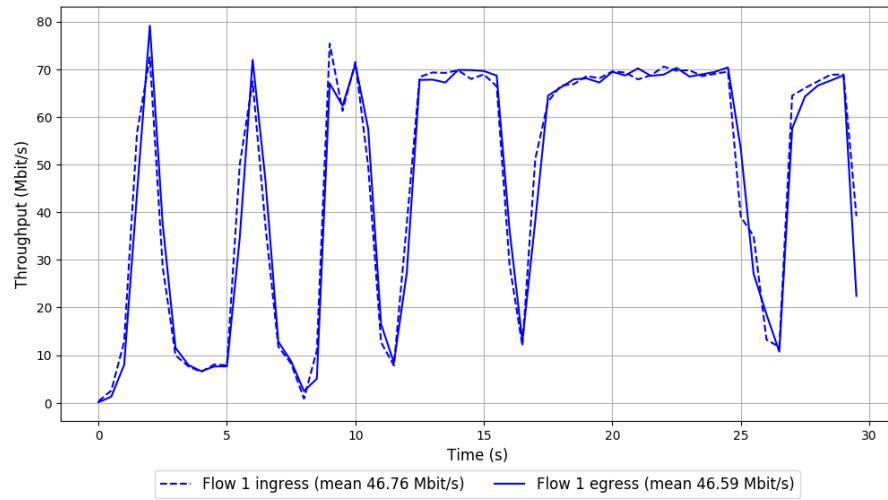
-- Flow 1:

Average throughput: 46.59 Mbit/s

95th percentile per-packet one-way delay: 105.953 ms

Loss rate: 1.12%

Run 10: Report of QUIC Cubic — Data Link

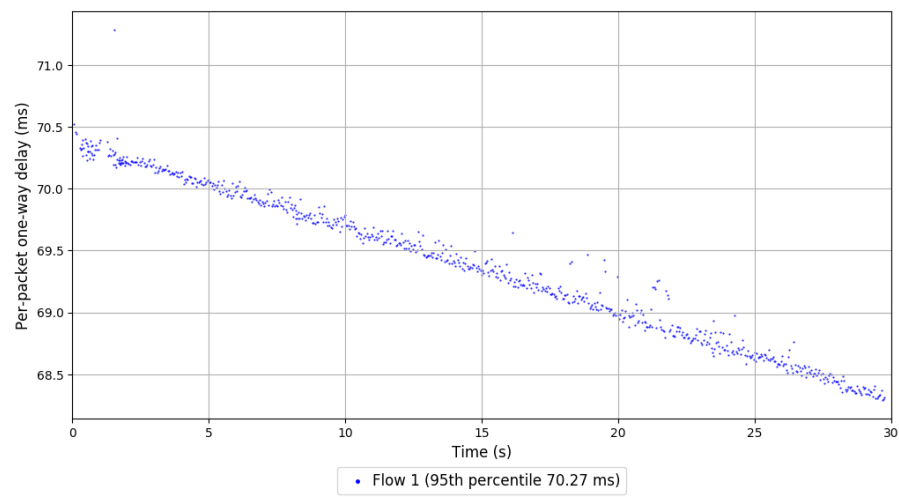
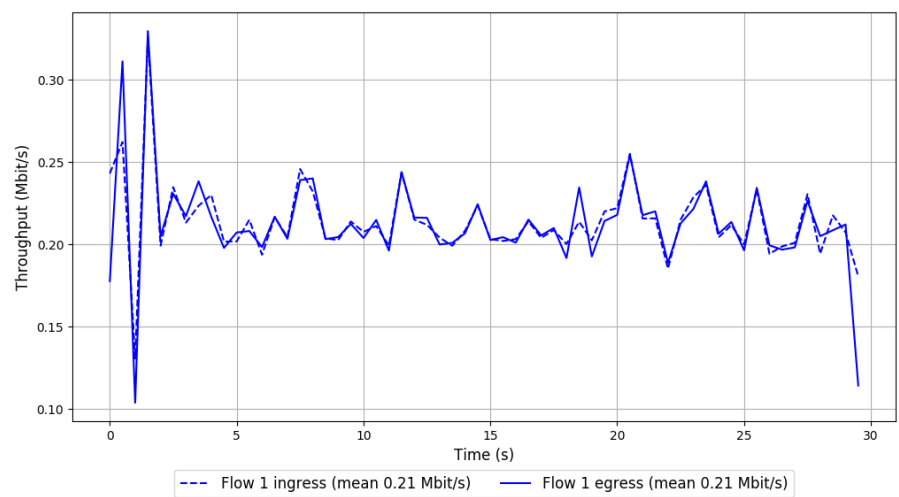


```
Run 1: Statistics of SCReAM

Start at: 2017-11-30 05:24:14
End at: 2017-11-30 05:24:44

# Below is generated by plot.py at 2017-11-30 09:21:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 70.267 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 70.267 ms
Loss rate: 0.77%
```

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SCReAM

Start at: 2017-11-30 05:35:04

End at: 2017-11-30 05:35:34

Below is generated by plot.py at 2017-11-30 09:21:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.11 Mbit/s

95th percentile per-packet one-way delay: 83.500 ms

Loss rate: 0.74%

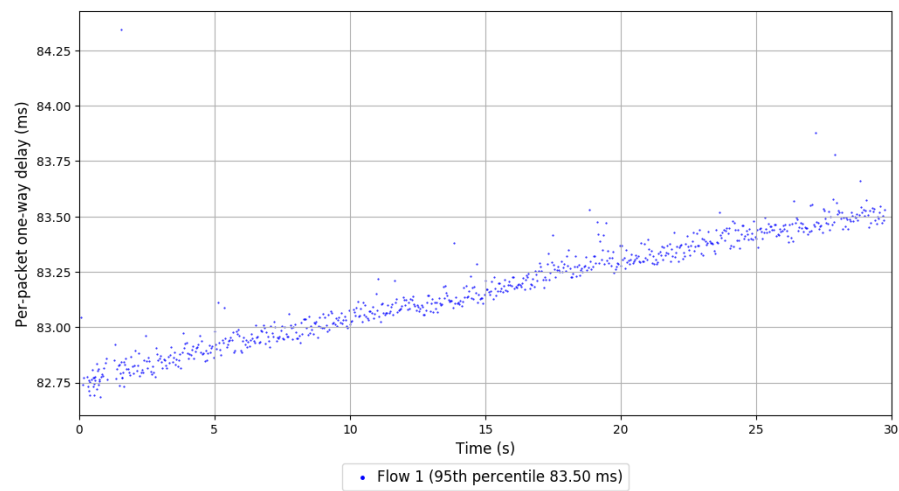
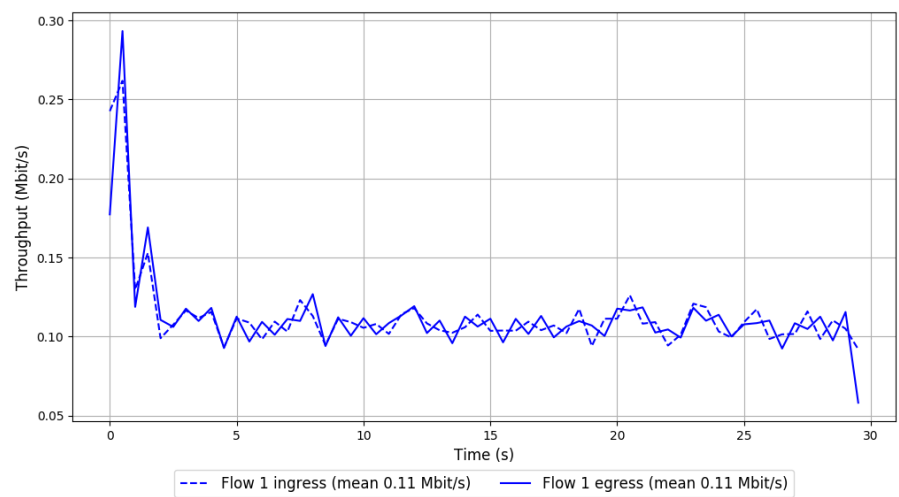
-- Flow 1:

Average throughput: 0.11 Mbit/s

95th percentile per-packet one-way delay: 83.500 ms

Loss rate: 0.74%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2017-11-30 05:46:16

End at: 2017-11-30 05:46:46

Below is generated by plot.py at 2017-11-30 09:21:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.11 Mbit/s

95th percentile per-packet one-way delay: 95.607 ms

Loss rate: 0.73%

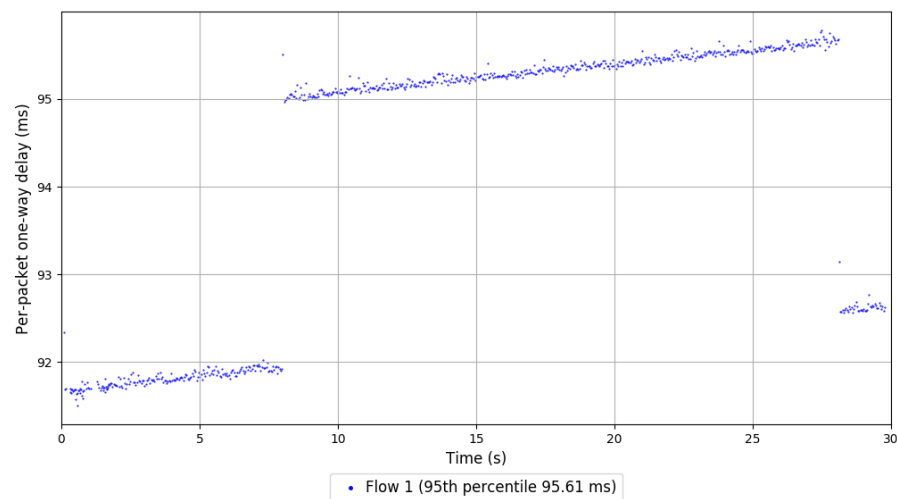
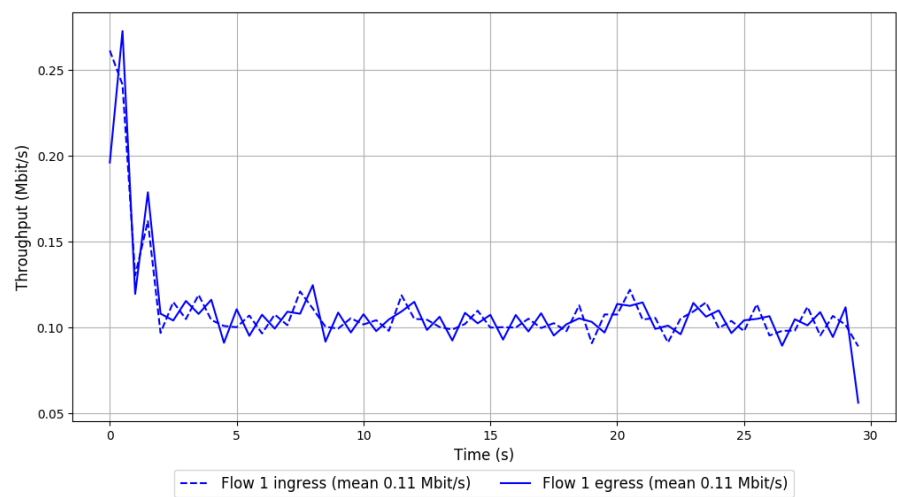
-- Flow 1:

Average throughput: 0.11 Mbit/s

95th percentile per-packet one-way delay: 95.607 ms

Loss rate: 0.73%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2017-11-30 05:57:00

End at: 2017-11-30 05:57:30

Below is generated by plot.py at 2017-11-30 09:21:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 99.601 ms

Loss rate: 0.76%

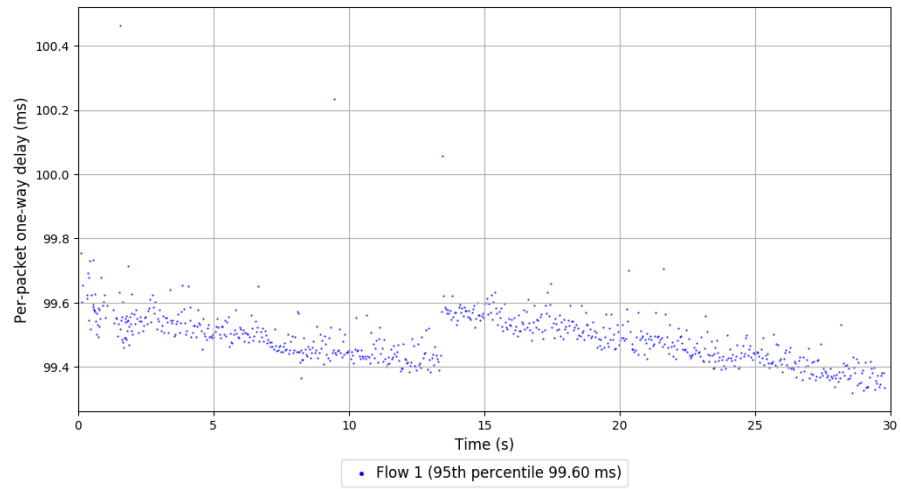
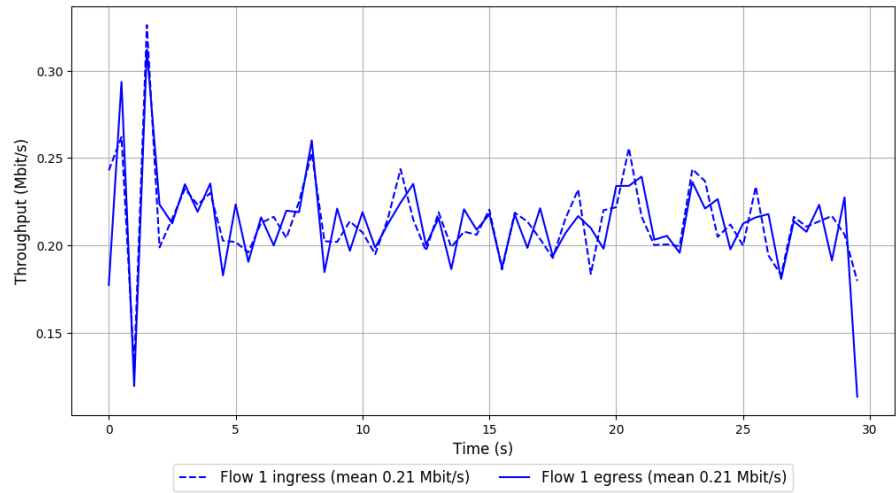
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 99.601 ms

Loss rate: 0.76%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2017-11-30 06:08:09

End at: 2017-11-30 06:08:39

Below is generated by plot.py at 2017-11-30 09:21:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 99.572 ms

Loss rate: 0.77%

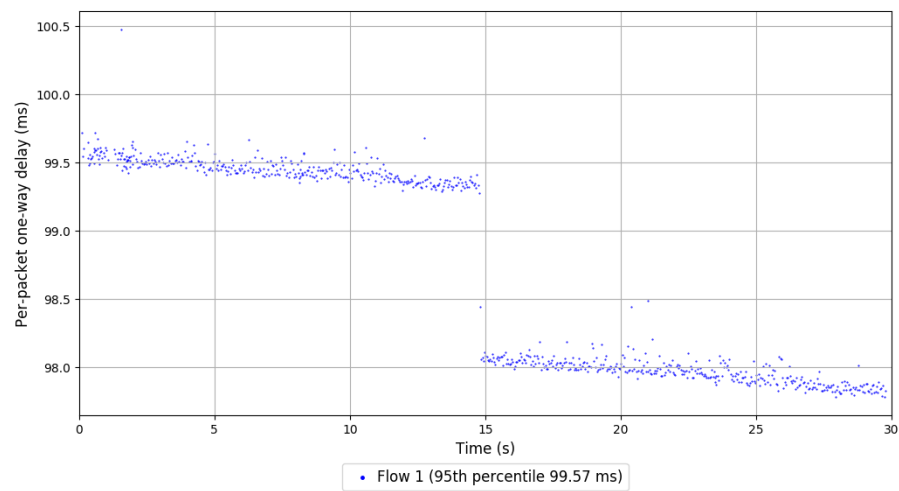
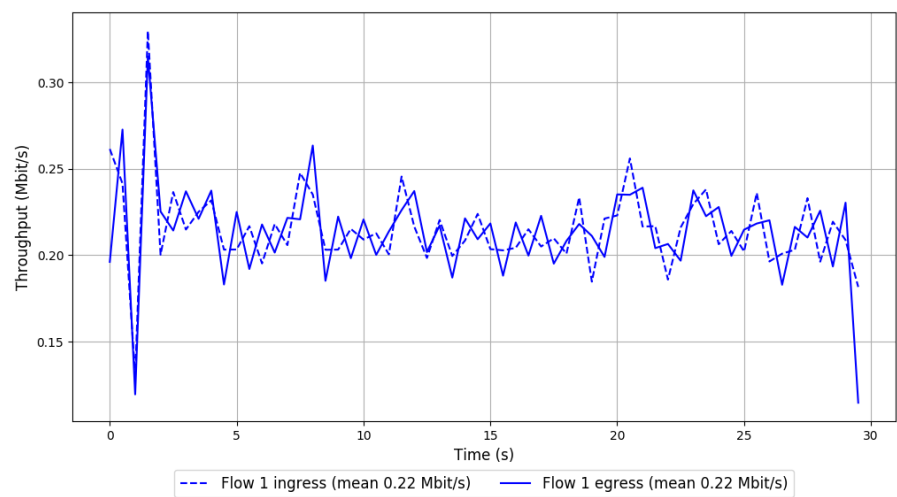
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 99.572 ms

Loss rate: 0.77%

Run 5: Report of SReAM — Data Link

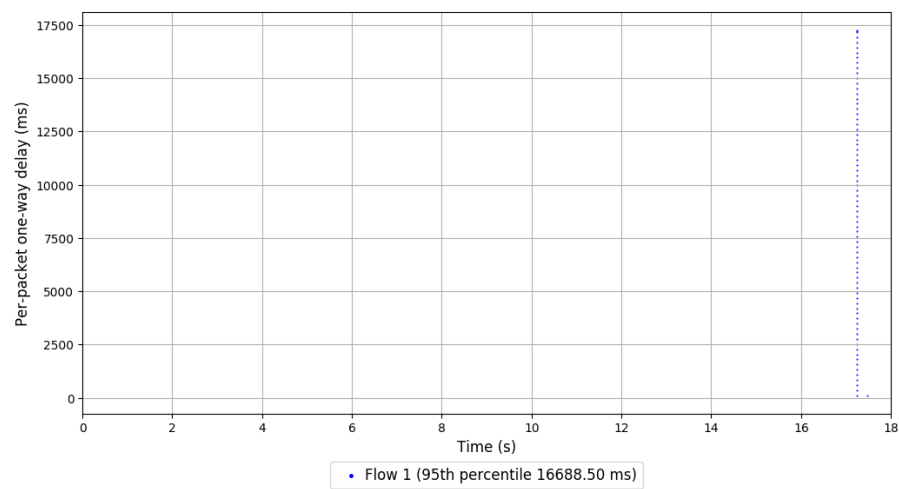
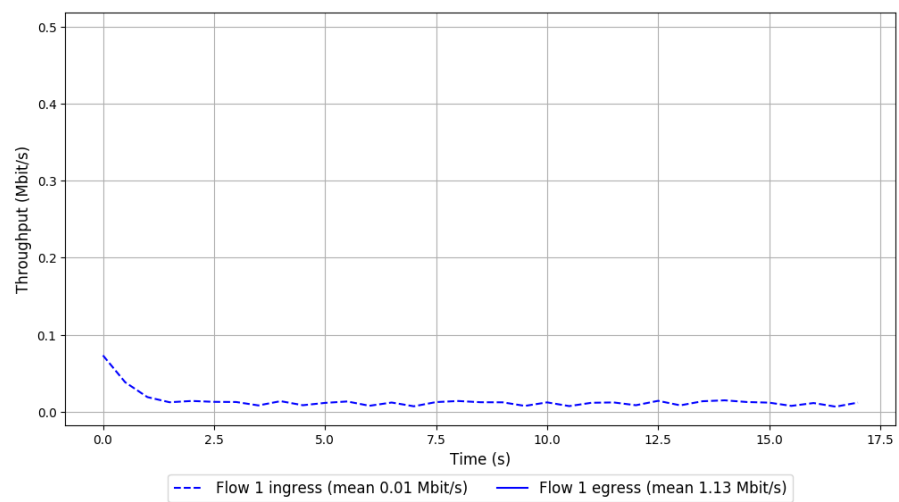


Run 6: Statistics of SReAM

Start at: 2017-11-30 06:18:56

End at: 2017-11-30 06:19:26

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2017-11-30 06:29:56

End at: 2017-11-30 06:30:26

Below is generated by plot.py at 2017-11-30 09:21:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 107.789 ms

Loss rate: 0.76%

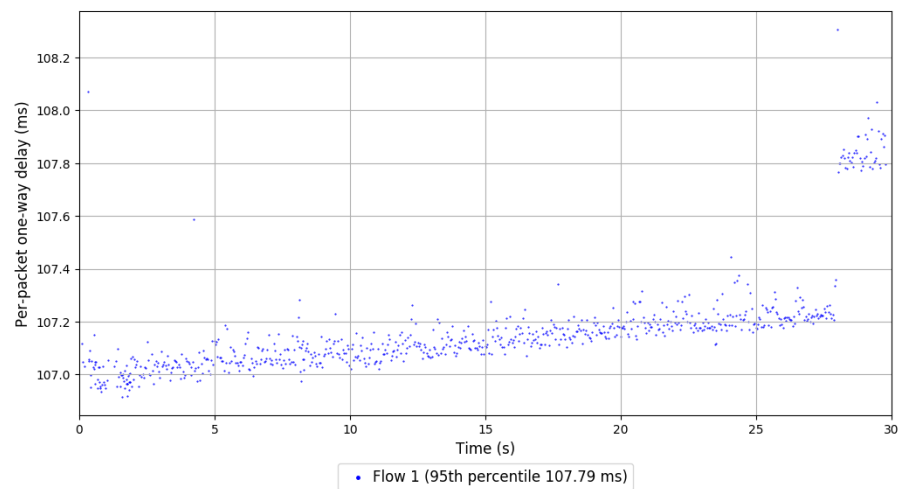
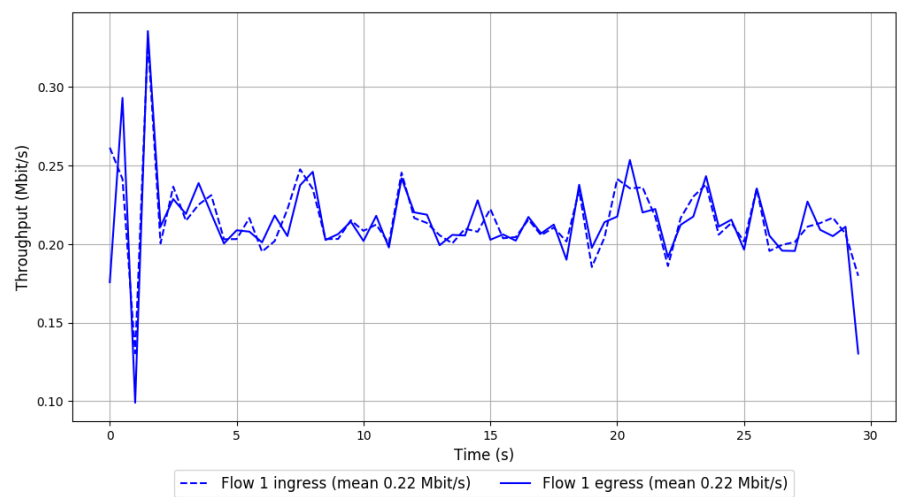
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 107.789 ms

Loss rate: 0.76%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2017-11-30 06:40:54

End at: 2017-11-30 06:41:25

Below is generated by plot.py at 2017-11-30 09:21:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 108.464 ms

Loss rate: 0.77%

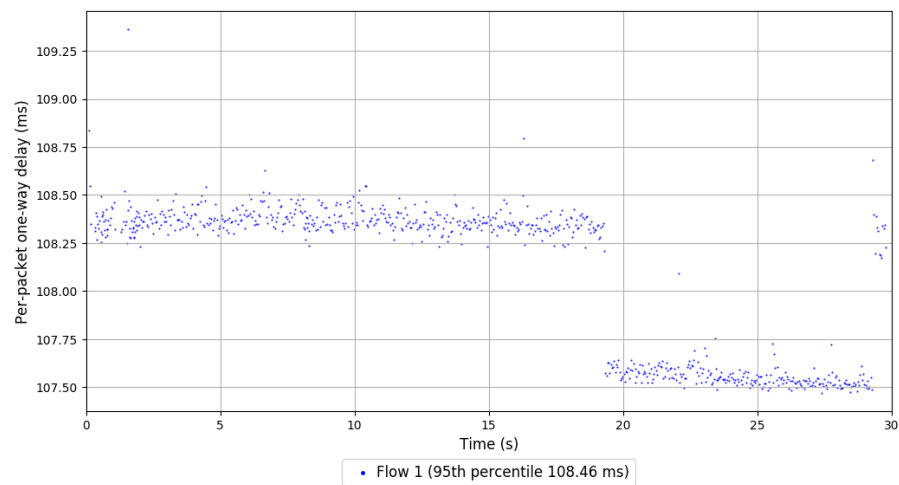
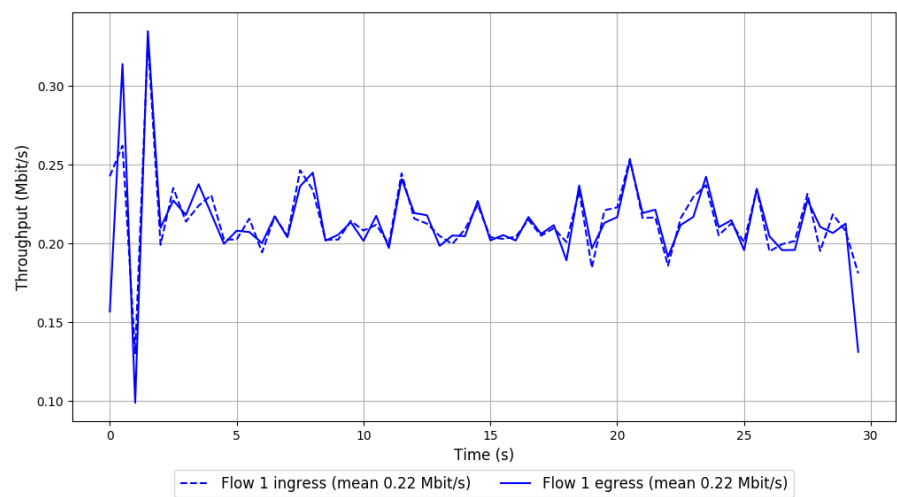
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 108.464 ms

Loss rate: 0.77%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2017-11-30 06:51:54

End at: 2017-11-30 06:52:24

Below is generated by plot.py at 2017-11-30 09:21:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 105.492 ms

Loss rate: 0.77%

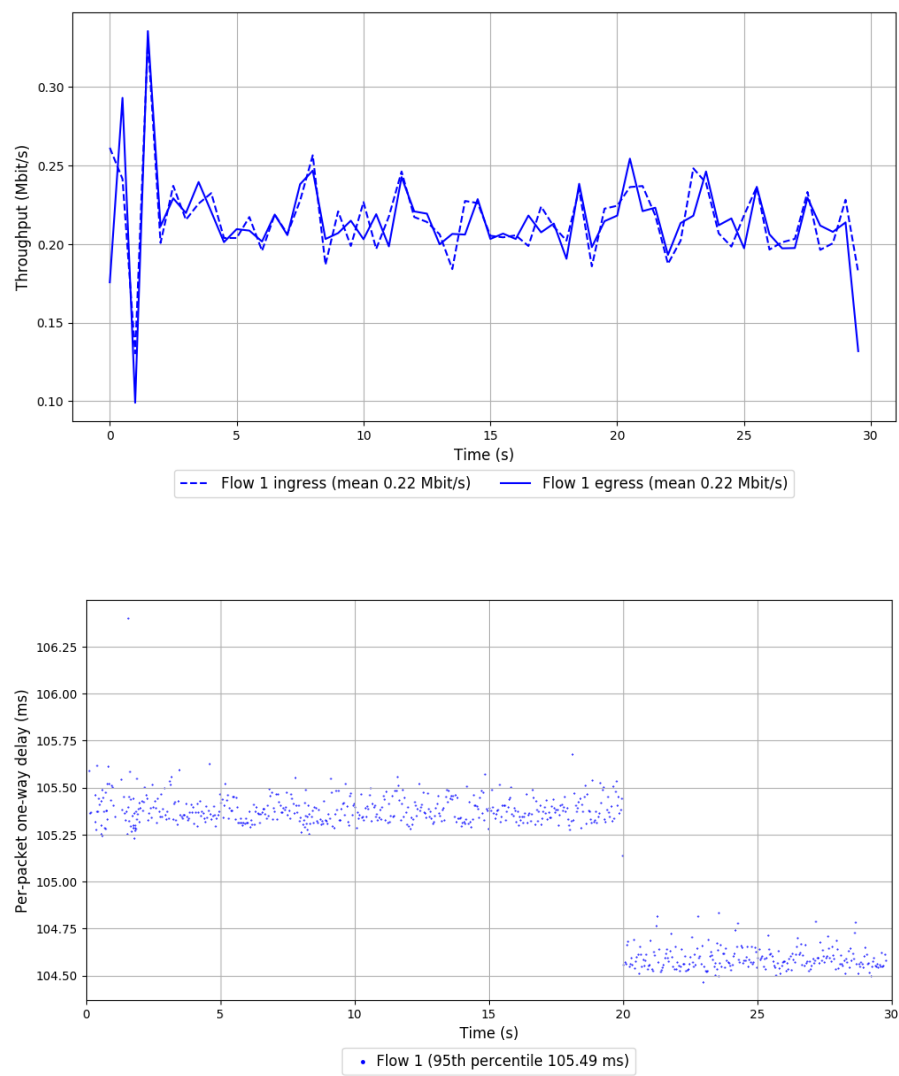
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 105.492 ms

Loss rate: 0.77%

Run 9: Report of SReAM — Data Link

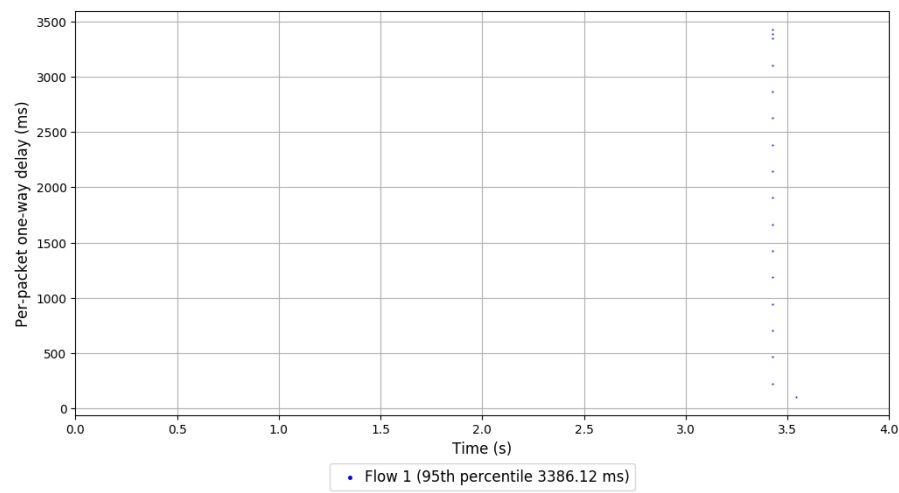
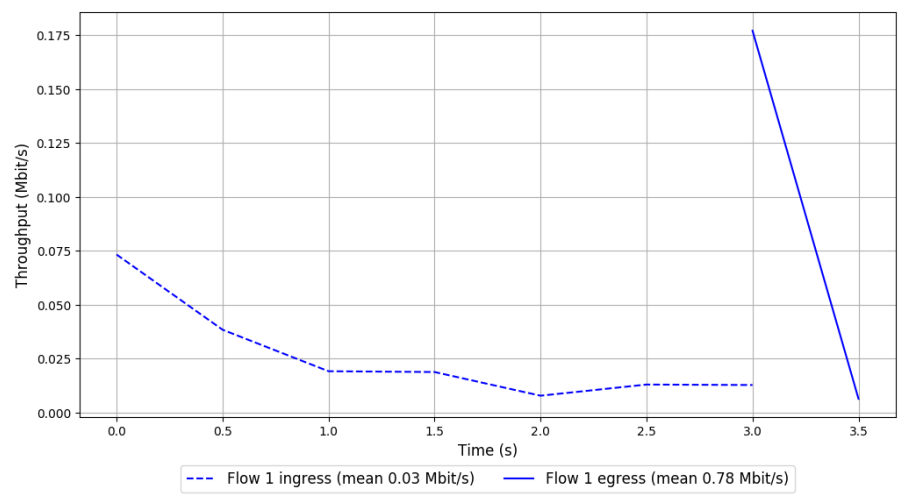


Run 10: Statistics of SCReAM

Start at: 2017-11-30 07:02:45

End at: 2017-11-30 07:03:15

Run 10: Report of SCReAM — Data Link

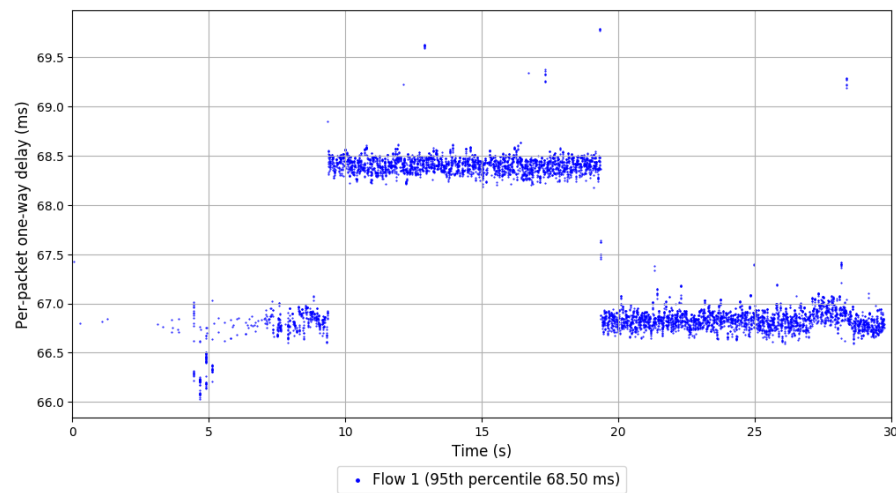
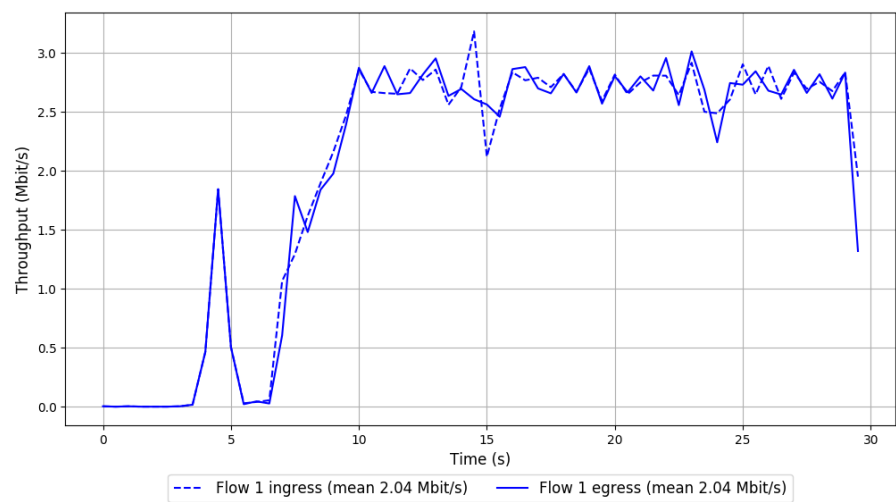


```
Run 1: Statistics of WebRTC media

Start at: 2017-11-30 05:24:54
End at: 2017-11-30 05:25:24

# Below is generated by plot.py at 2017-11-30 09:21:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.04 Mbit/s
95th percentile per-packet one-way delay: 68.499 ms
Loss rate: 0.88%
-- Flow 1:
Average throughput: 2.04 Mbit/s
95th percentile per-packet one-way delay: 68.499 ms
Loss rate: 0.88%
```

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2017-11-30 05:35:44

End at: 2017-11-30 05:36:14

Below is generated by plot.py at 2017-11-30 09:21:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.14 Mbit/s

95th percentile per-packet one-way delay: 85.989 ms

Loss rate: 0.75%

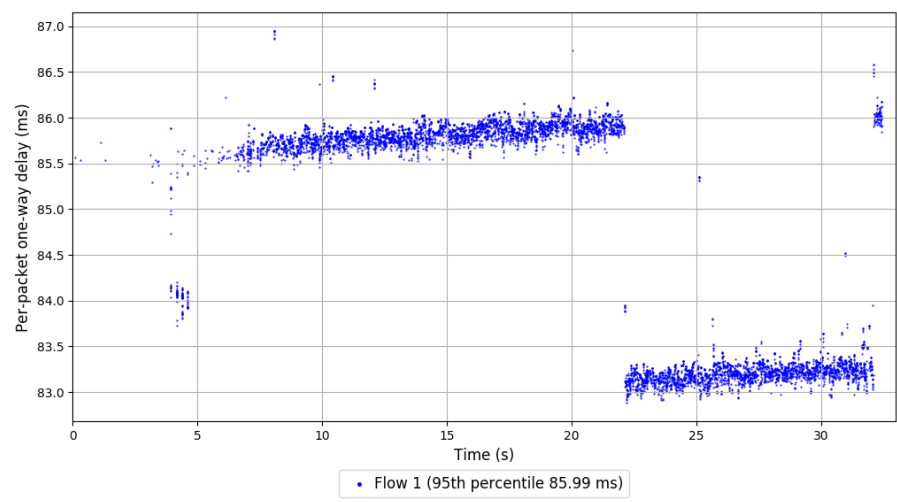
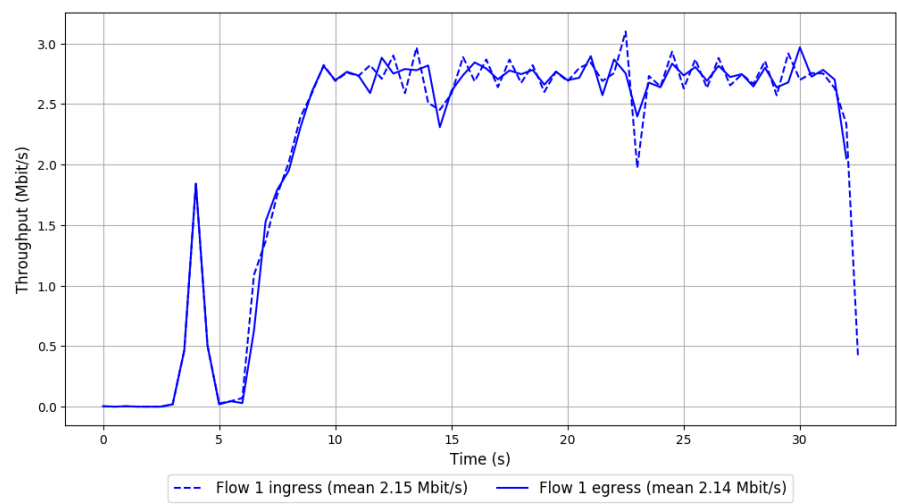
-- Flow 1:

Average throughput: 2.14 Mbit/s

95th percentile per-packet one-way delay: 85.989 ms

Loss rate: 0.75%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2017-11-30 05:46:56

End at: 2017-11-30 05:47:26

Below is generated by plot.py at 2017-11-30 09:21:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.14 Mbit/s

95th percentile per-packet one-way delay: 95.639 ms

Loss rate: 0.90%

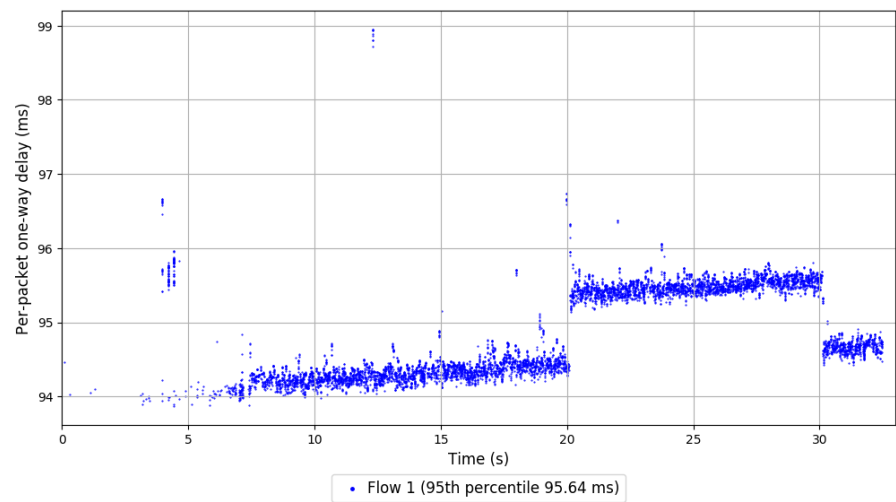
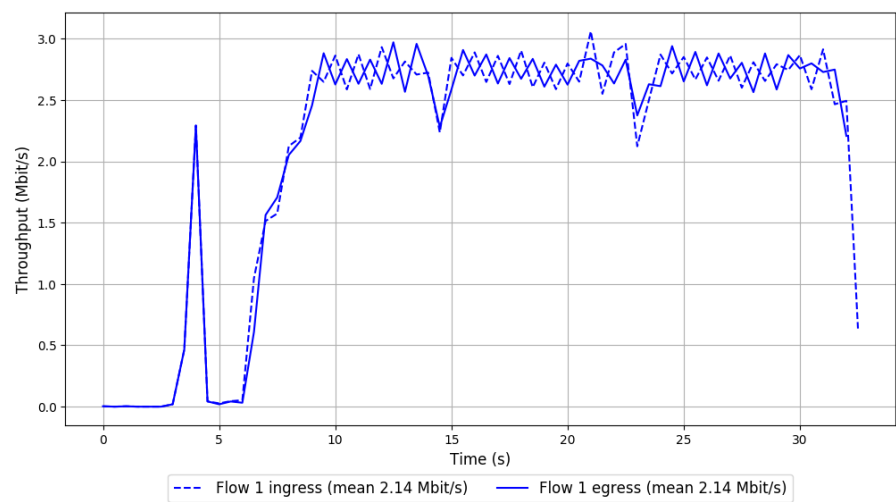
-- Flow 1:

Average throughput: 2.14 Mbit/s

95th percentile per-packet one-way delay: 95.639 ms

Loss rate: 0.90%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2017-11-30 05:57:41

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

Below is generated by plot.py at 2017-11-30 09:21:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.10 Mbit/s

95th percentile per-packet one-way delay: 100.978 ms

Loss rate: 0.73%

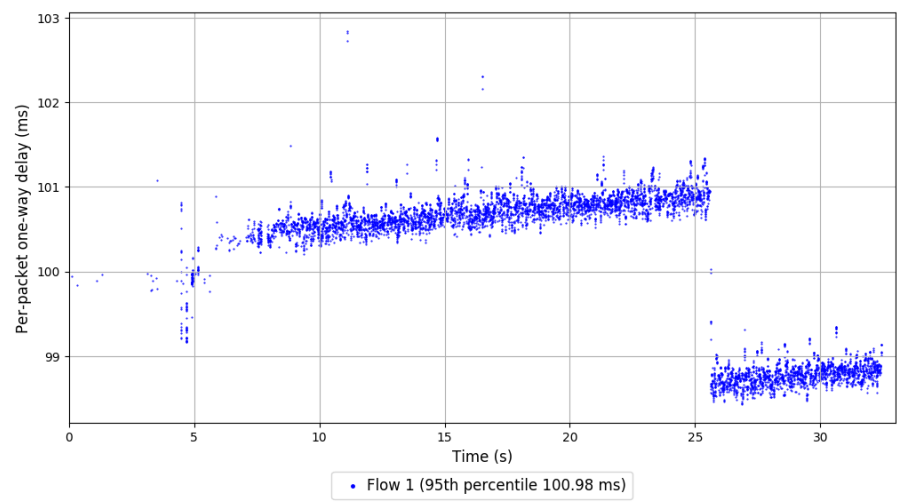
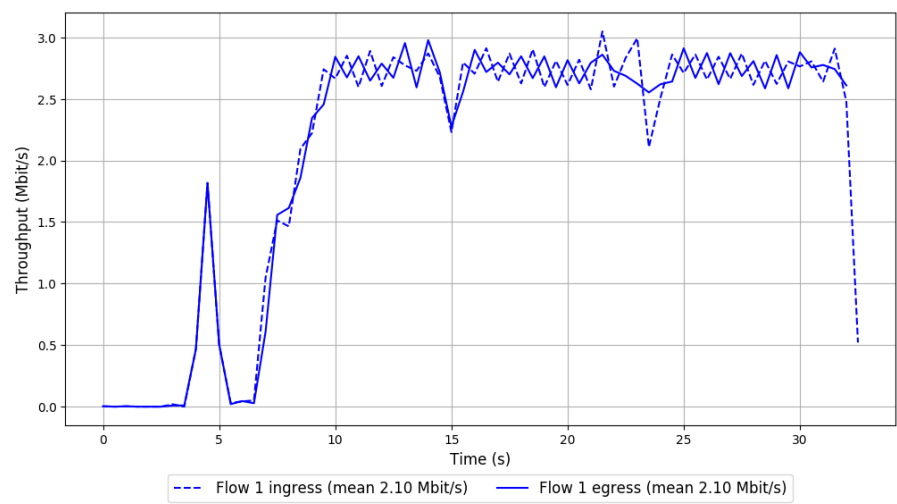
-- Flow 1:

Average throughput: 2.10 Mbit/s

95th percentile per-packet one-way delay: 100.978 ms

Loss rate: 0.73%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2017-11-30 06:08:50

End at: 2017-11-30 06:09:20

Below is generated by plot.py at 2017-11-30 09:21:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.11 Mbit/s

95th percentile per-packet one-way delay: 98.340 ms

Loss rate: 0.62%

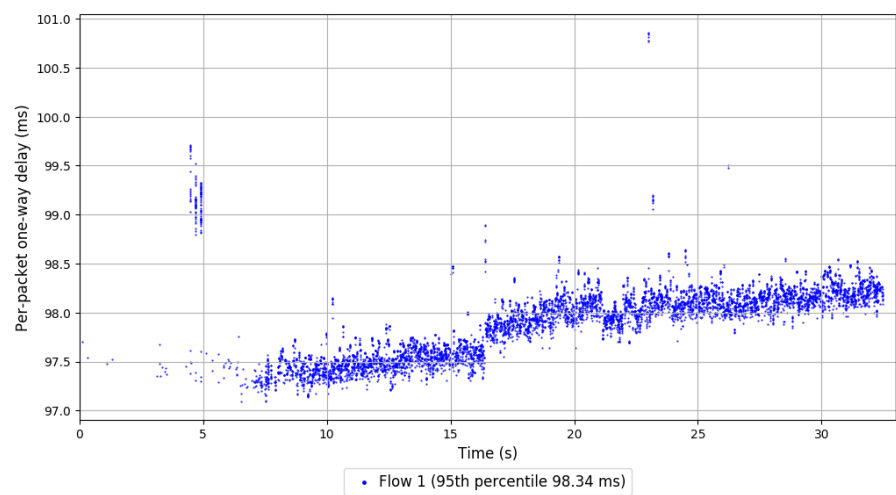
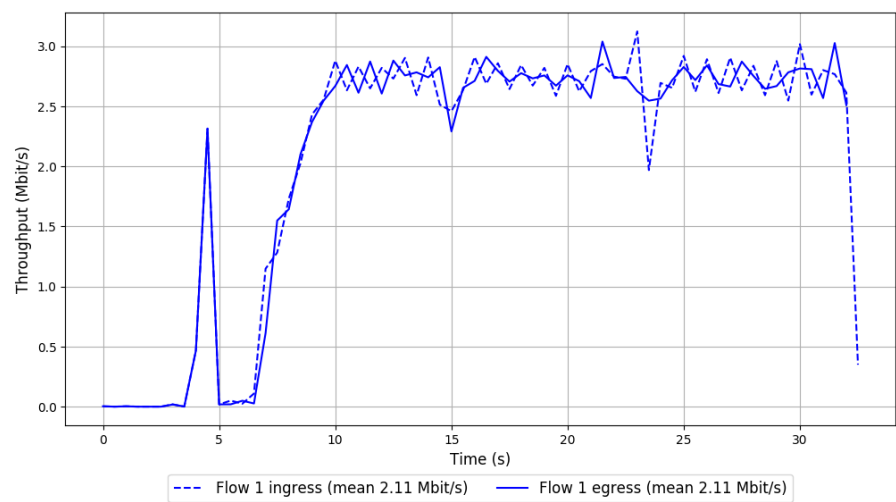
-- Flow 1:

Average throughput: 2.11 Mbit/s

95th percentile per-packet one-way delay: 98.340 ms

Loss rate: 0.62%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2017-11-30 06:19:36

End at: 2017-11-30 06:20:06

Below is generated by plot.py at 2017-11-30 09:21:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.11 Mbit/s

95th percentile per-packet one-way delay: 106.883 ms

Loss rate: 0.73%

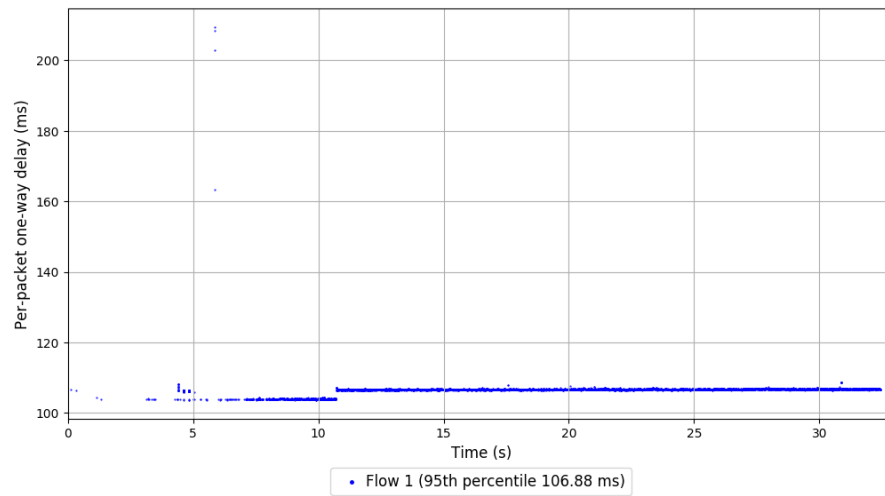
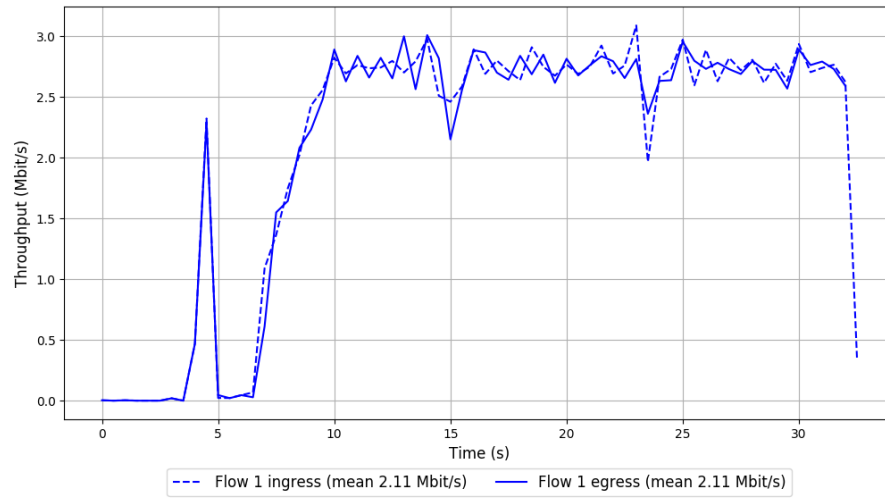
-- Flow 1:

Average throughput: 2.11 Mbit/s

95th percentile per-packet one-way delay: 106.883 ms

Loss rate: 0.73%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2017-11-30 06:30:37

End at: 2017-11-30 06:31:07

Below is generated by plot.py at 2017-11-30 09:21:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.92 Mbit/s

95th percentile per-packet one-way delay: 105.814 ms

Loss rate: 0.93%

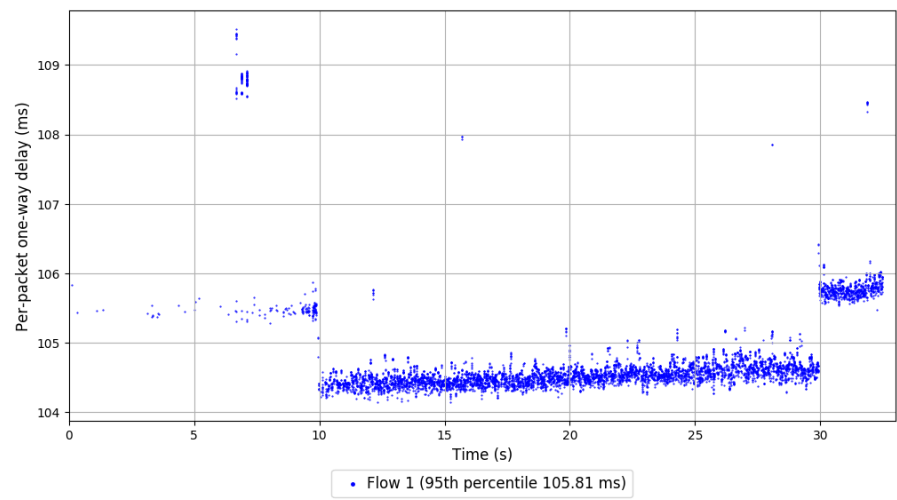
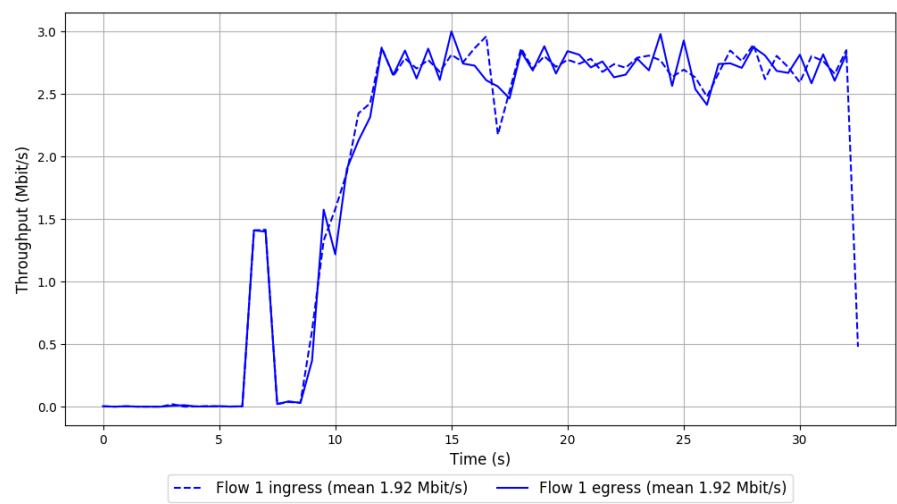
-- Flow 1:

Average throughput: 1.92 Mbit/s

95th percentile per-packet one-way delay: 105.814 ms

Loss rate: 0.93%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2017-11-30 06:41:35

End at: 2017-11-30 06:42:05

Below is generated by plot.py at 2017-11-30 09:21:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.13 Mbit/s

95th percentile per-packet one-way delay: 108.286 ms

Loss rate: 0.78%

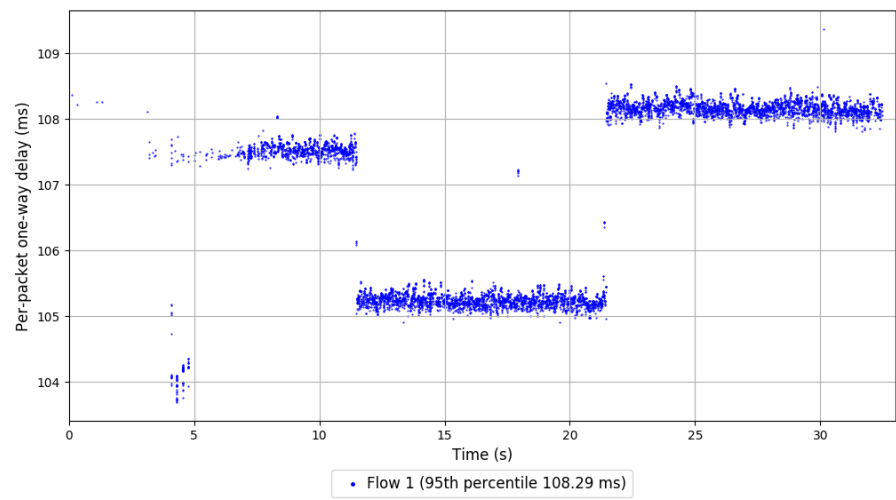
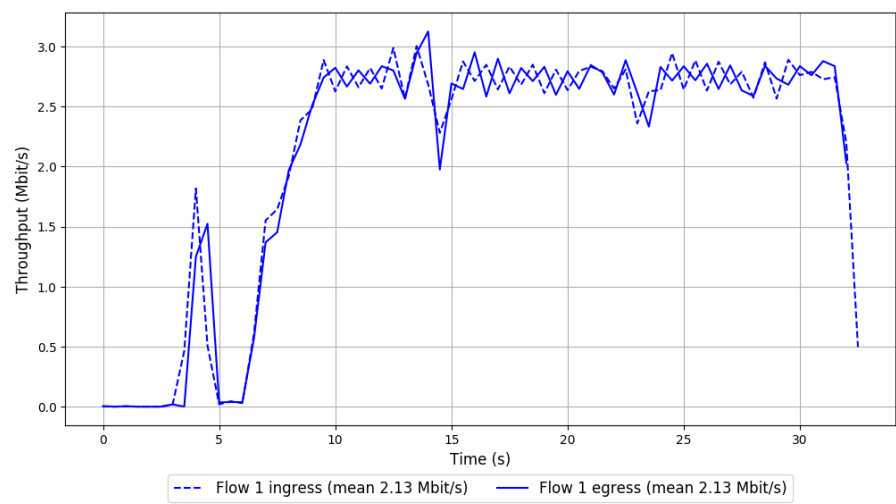
-- Flow 1:

Average throughput: 2.13 Mbit/s

95th percentile per-packet one-way delay: 108.286 ms

Loss rate: 0.78%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2017-11-30 06:52:35

End at: 2017-11-30 06:53:05

Below is generated by plot.py at 2017-11-30 09:21:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 105.485 ms

Loss rate: 0.81%

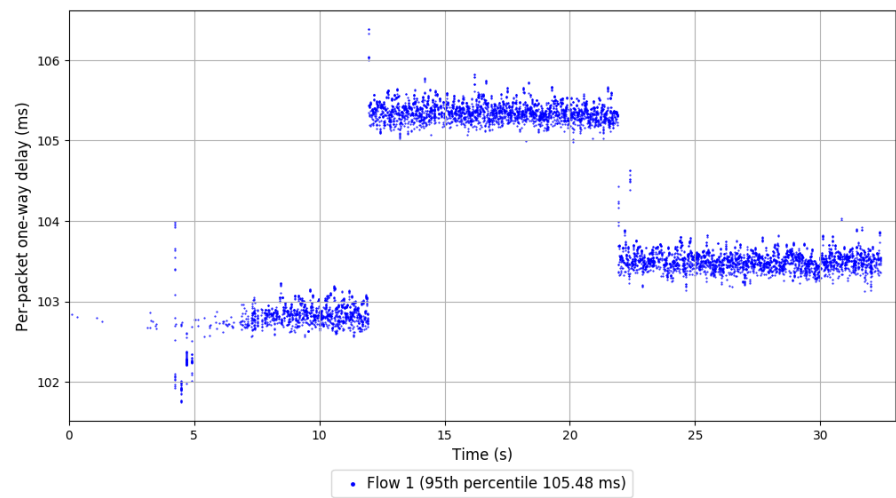
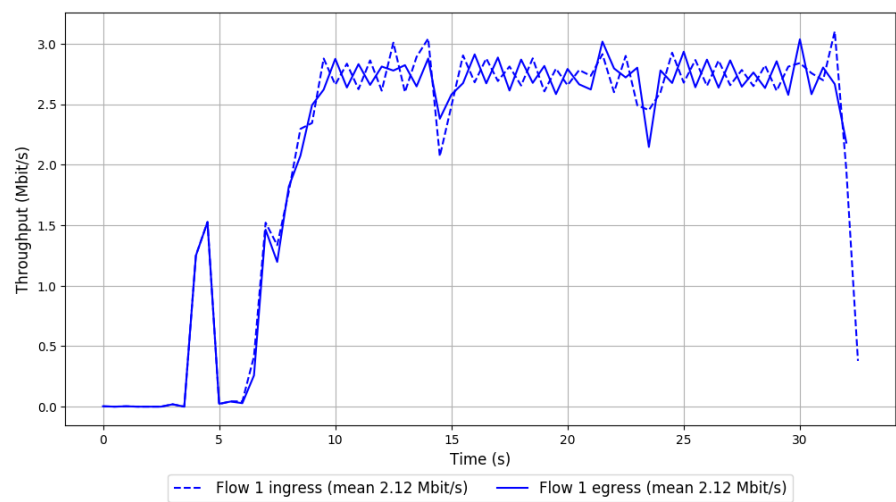
-- Flow 1:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 105.485 ms

Loss rate: 0.81%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2017-11-30 07:03:25

End at: 2017-11-30 07:03:55

Below is generated by plot.py at 2017-11-30 09:21:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 107.006 ms

Loss rate: 0.82%

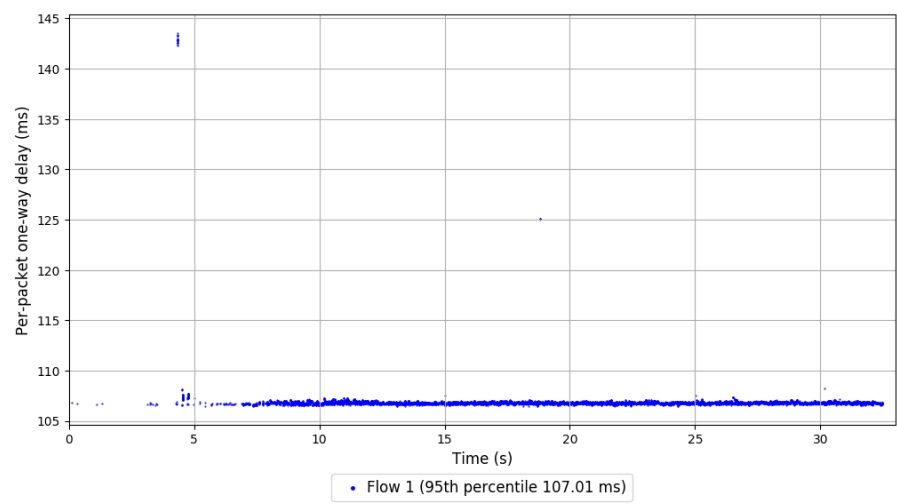
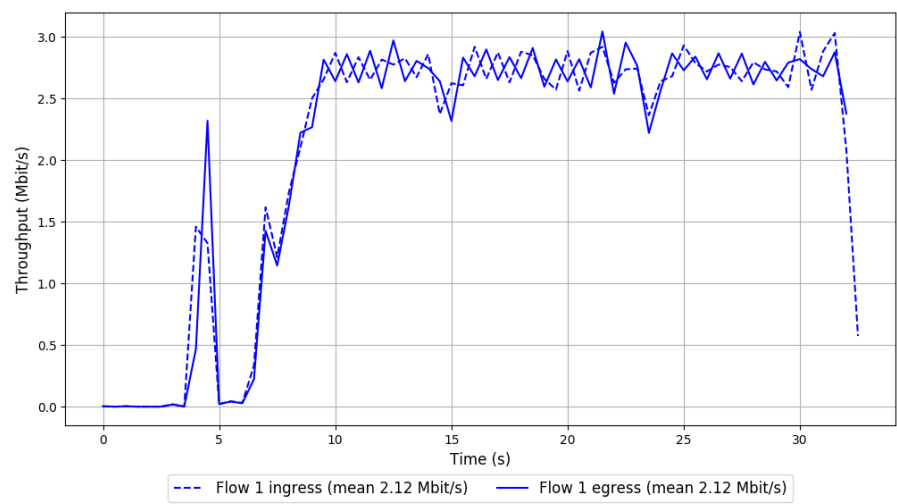
-- Flow 1:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 107.006 ms

Loss rate: 0.82%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2017-11-30 05:17:05

End at: 2017-11-30 05:17:35

Below is generated by plot.py at 2017-11-30 09:21:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.40 Mbit/s

95th percentile per-packet one-way delay: 95.505 ms

Loss rate: 3.41%

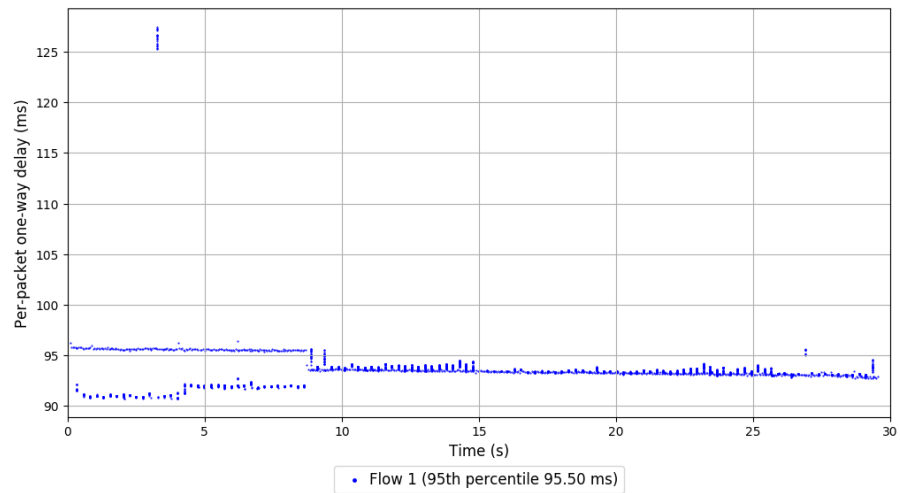
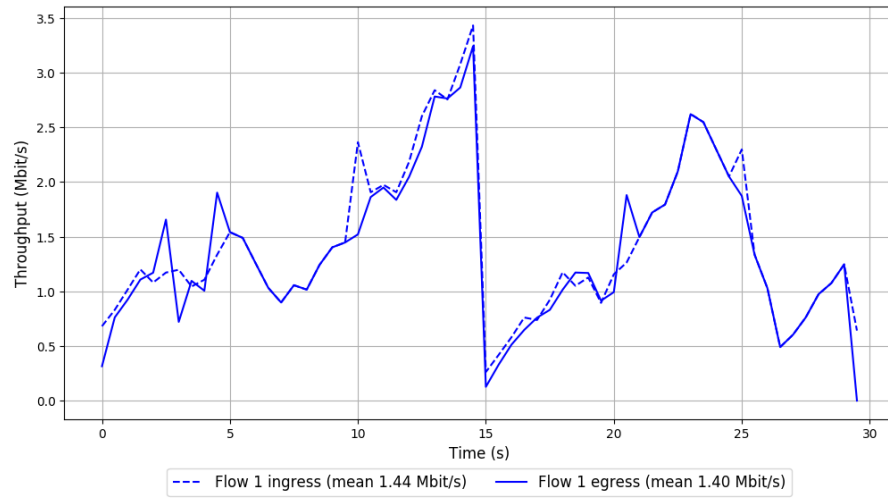
-- Flow 1:

Average throughput: 1.40 Mbit/s

95th percentile per-packet one-way delay: 95.505 ms

Loss rate: 3.41%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2017-11-30 05:27:54

End at: 2017-11-30 05:28:24

Below is generated by plot.py at 2017-11-30 09:21:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.56 Mbit/s

95th percentile per-packet one-way delay: 73.691 ms

Loss rate: 1.08%

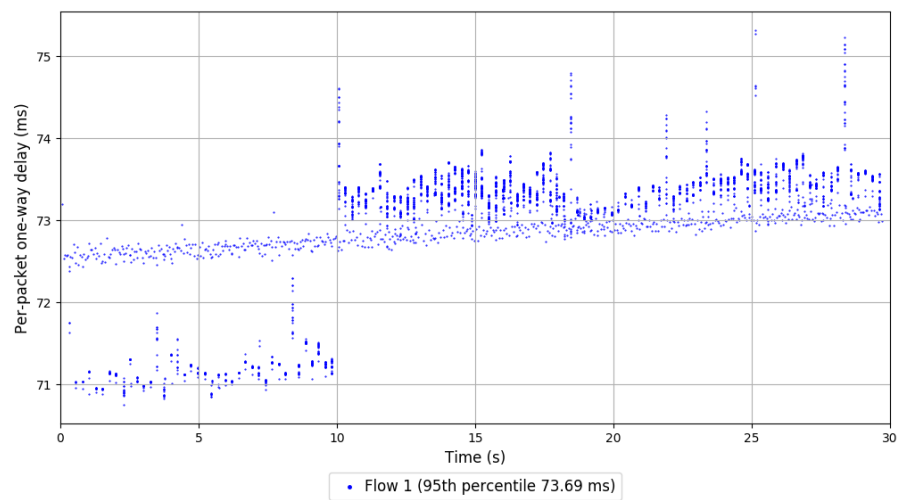
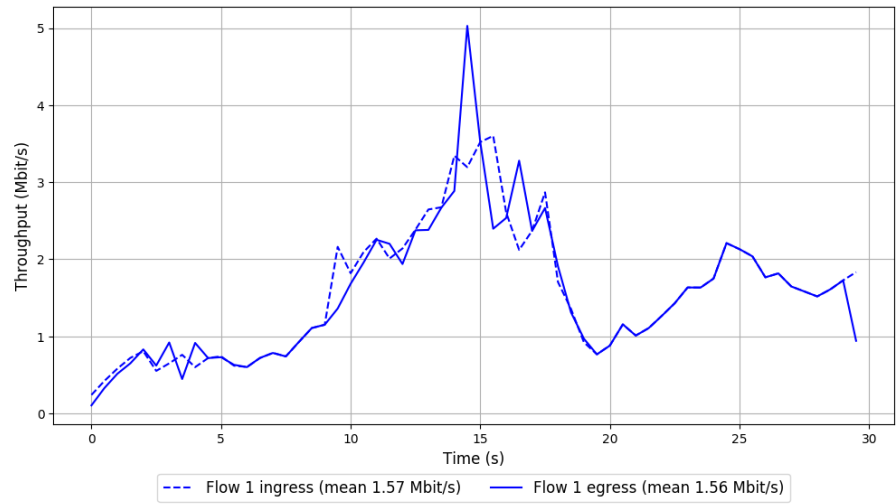
-- Flow 1:

Average throughput: 1.56 Mbit/s

95th percentile per-packet one-way delay: 73.691 ms

Loss rate: 1.08%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2017-11-30 05:38:44

End at: 2017-11-30 05:39:15

Below is generated by plot.py at 2017-11-30 09:21:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.83 Mbit/s

95th percentile per-packet one-way delay: 85.457 ms

Loss rate: 0.73%

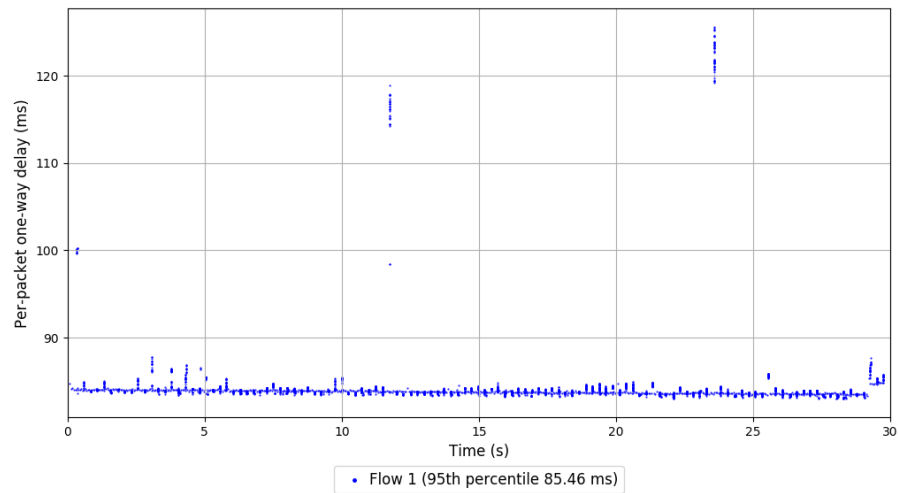
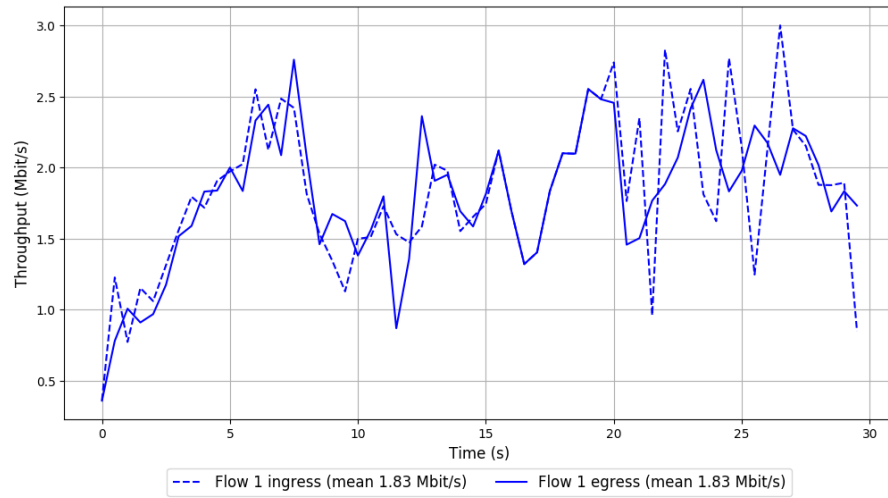
-- Flow 1:

Average throughput: 1.83 Mbit/s

95th percentile per-packet one-way delay: 85.457 ms

Loss rate: 0.73%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2017-11-30 05:49:58

End at: 2017-11-30 05:50:28

Below is generated by plot.py at 2017-11-30 09:21:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.08 Mbit/s

95th percentile per-packet one-way delay: 100.368 ms

Loss rate: 2.50%

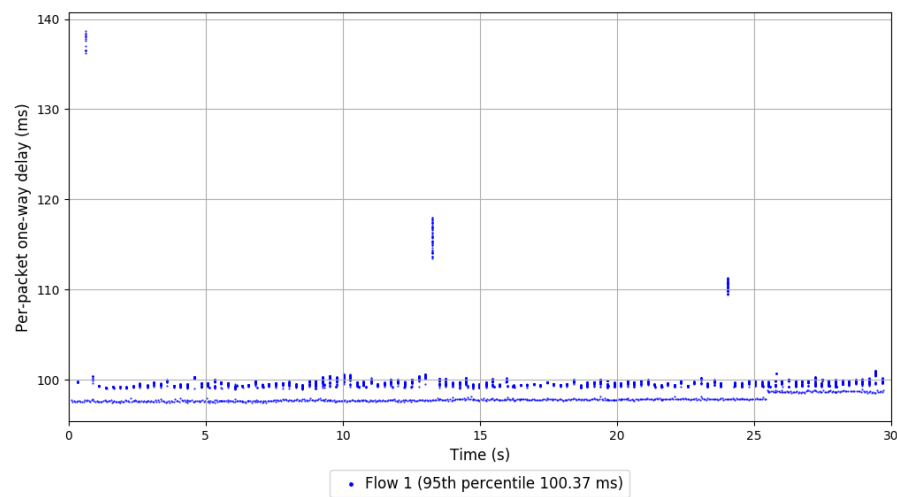
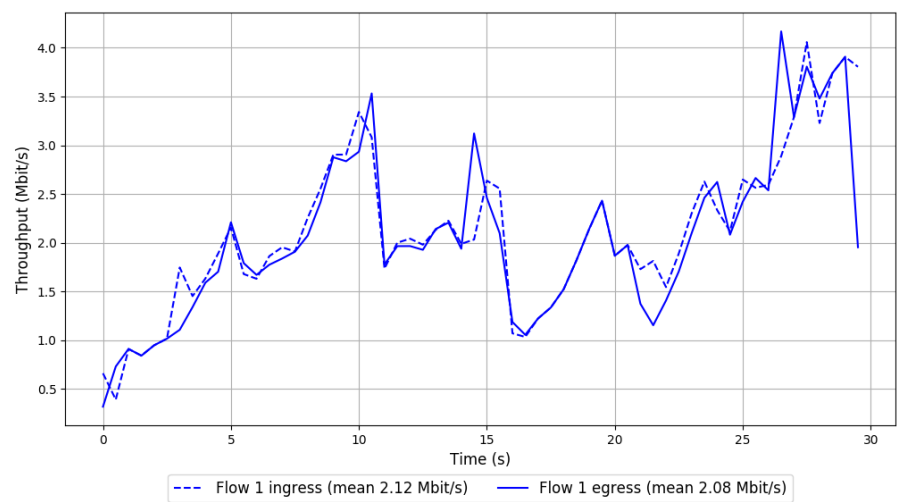
-- Flow 1:

Average throughput: 2.08 Mbit/s

95th percentile per-packet one-way delay: 100.368 ms

Loss rate: 2.50%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2017-11-30 06:00:44

End at: 2017-11-30 06:01:14

Below is generated by plot.py at 2017-11-30 09:21:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.21 Mbit/s

95th percentile per-packet one-way delay: 103.889 ms

Loss rate: 2.25%

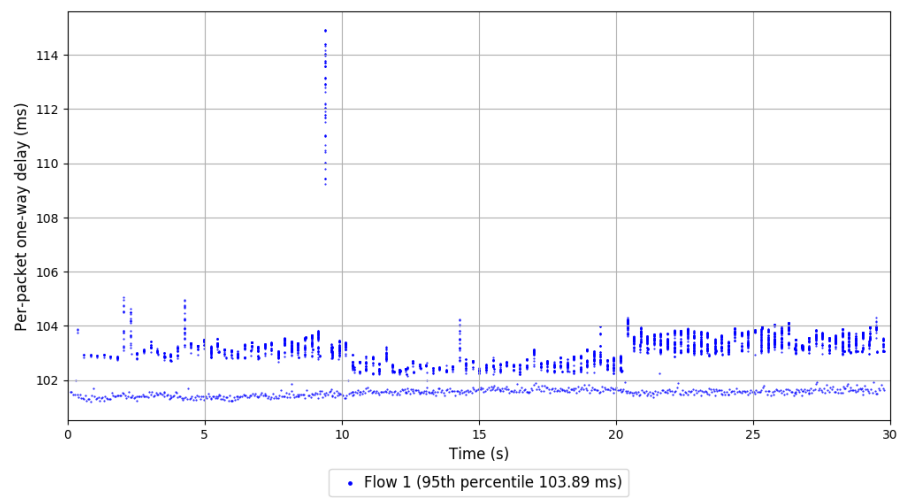
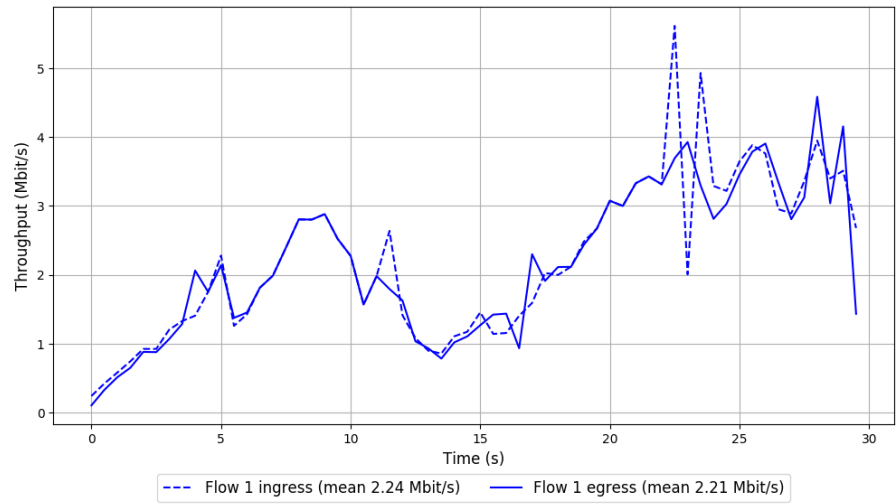
-- Flow 1:

Average throughput: 2.21 Mbit/s

95th percentile per-packet one-way delay: 103.889 ms

Loss rate: 2.25%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2017-11-30 06:11:50

End at: 2017-11-30 06:12:20

Below is generated by plot.py at 2017-11-30 09:21:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.06 Mbit/s

95th percentile per-packet one-way delay: 103.093 ms

Loss rate: 1.05%

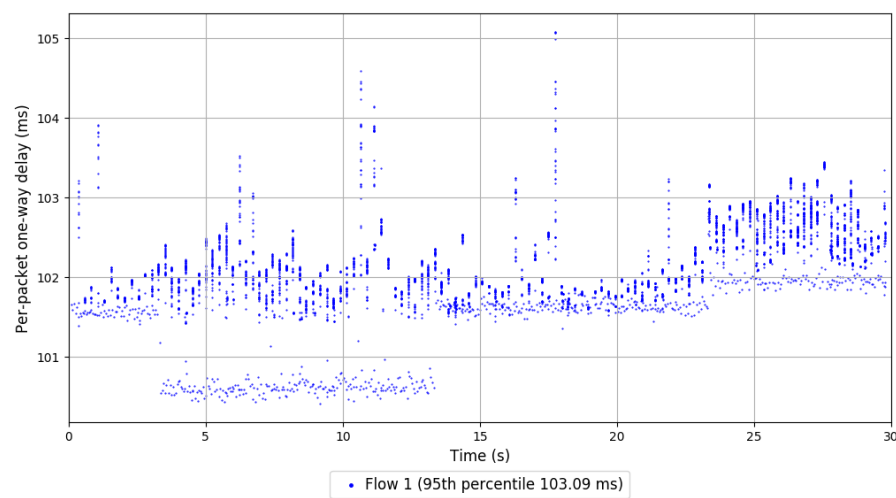
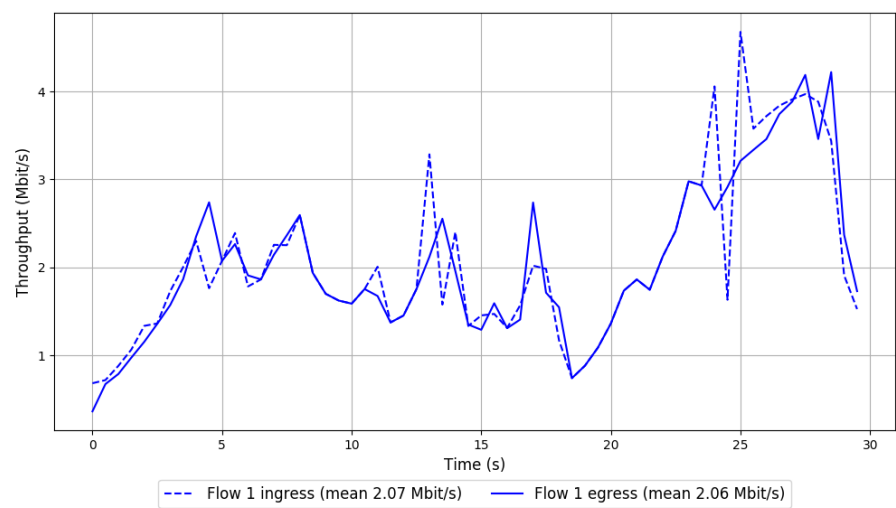
-- Flow 1:

Average throughput: 2.06 Mbit/s

95th percentile per-packet one-way delay: 103.093 ms

Loss rate: 1.05%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2017-11-30 06:22:37

End at: 2017-11-30 06:23:07

Below is generated by plot.py at 2017-11-30 09:21:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.46 Mbit/s

95th percentile per-packet one-way delay: 107.472 ms

Loss rate: 1.38%

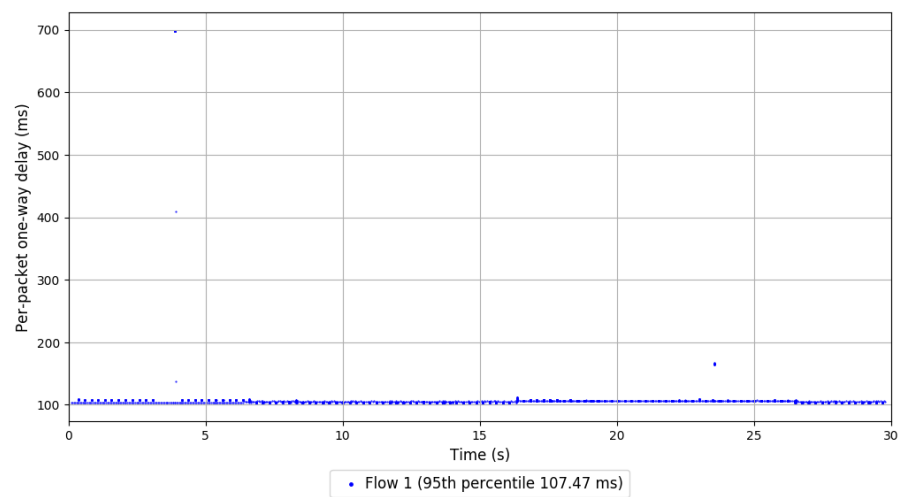
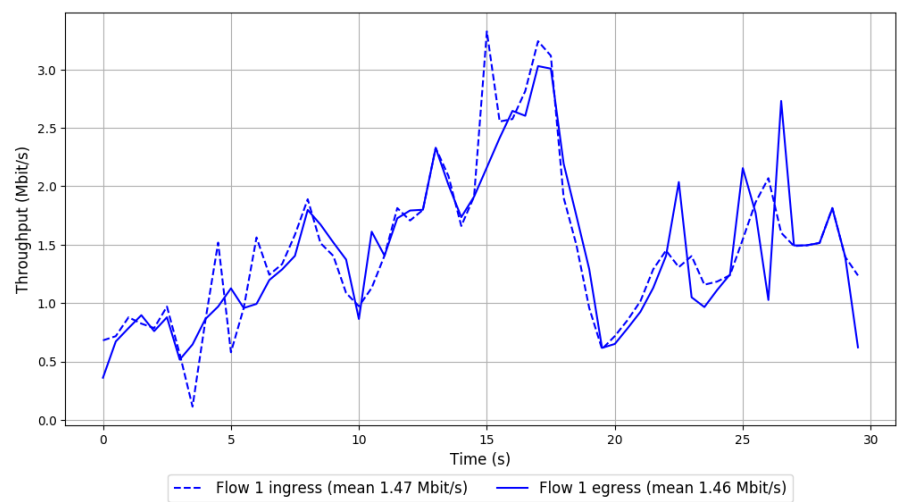
-- Flow 1:

Average throughput: 1.46 Mbit/s

95th percentile per-packet one-way delay: 107.472 ms

Loss rate: 1.38%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2017-11-30 06:33:38

End at: 2017-11-30 06:34:08

Below is generated by plot.py at 2017-11-30 09:21:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.64 Mbit/s

95th percentile per-packet one-way delay: 110.237 ms

Loss rate: 1.27%

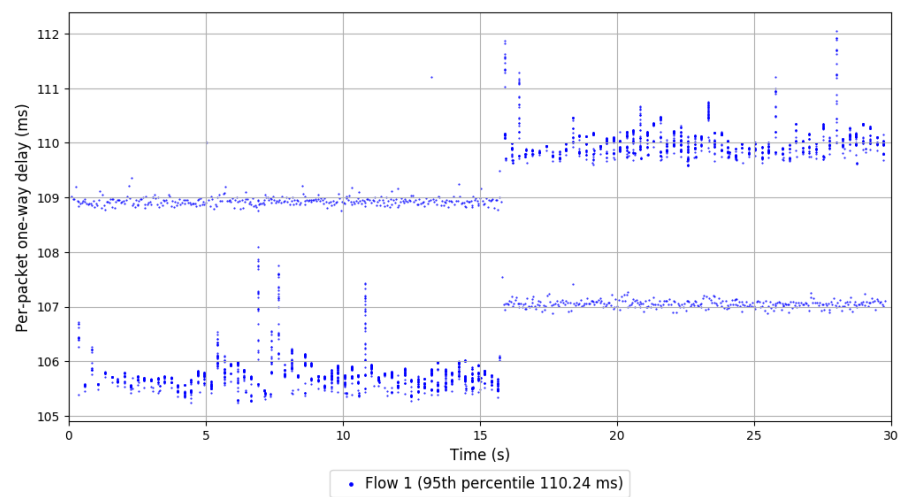
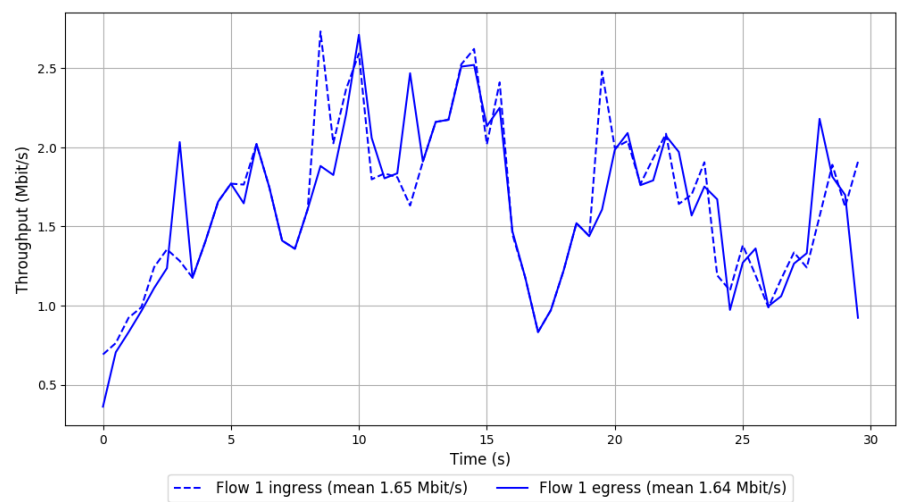
-- Flow 1:

Average throughput: 1.64 Mbit/s

95th percentile per-packet one-way delay: 110.237 ms

Loss rate: 1.27%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2017-11-30 06:44:37

End at: 2017-11-30 06:45:07

Below is generated by plot.py at 2017-11-30 09:21:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.06 Mbit/s

95th percentile per-packet one-way delay: 107.850 ms

Loss rate: 2.33%

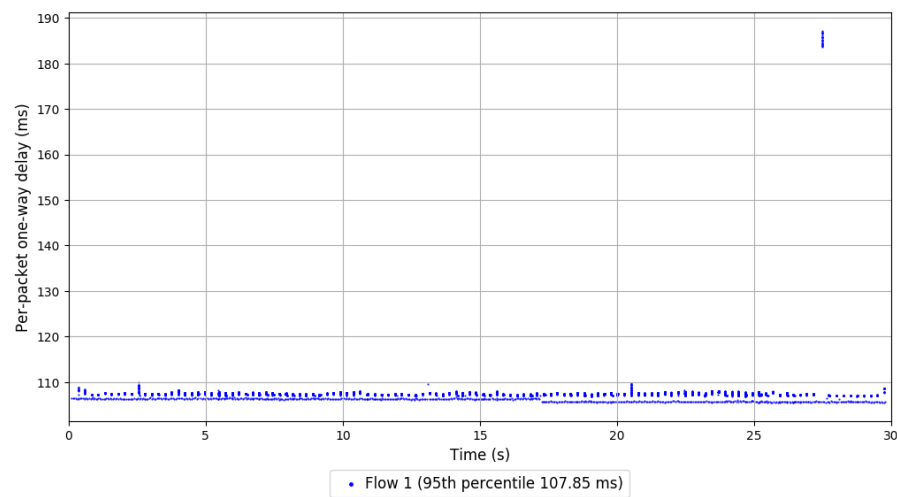
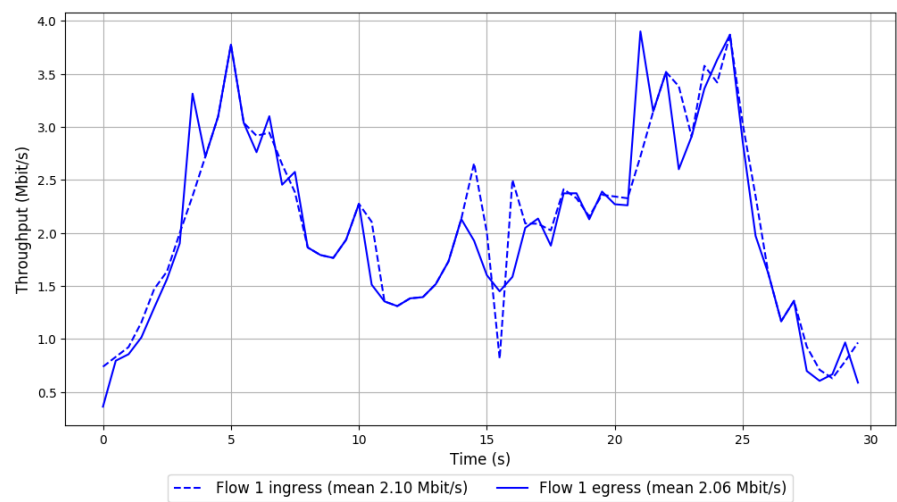
-- Flow 1:

Average throughput: 2.06 Mbit/s

95th percentile per-packet one-way delay: 107.850 ms

Loss rate: 2.33%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2017-11-30 06:55:35

End at: 2017-11-30 06:56:05

Below is generated by plot.py at 2017-11-30 09:21:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.25 Mbit/s

95th percentile per-packet one-way delay: 103.256 ms

Loss rate: 2.11%

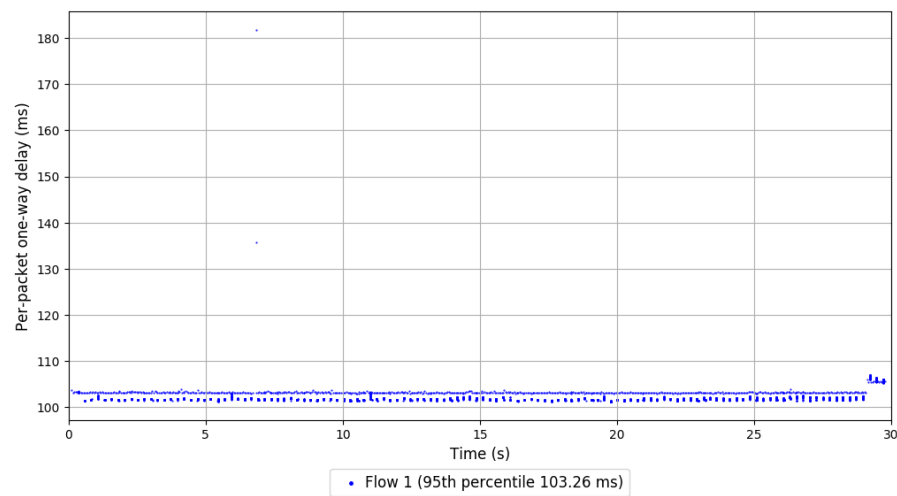
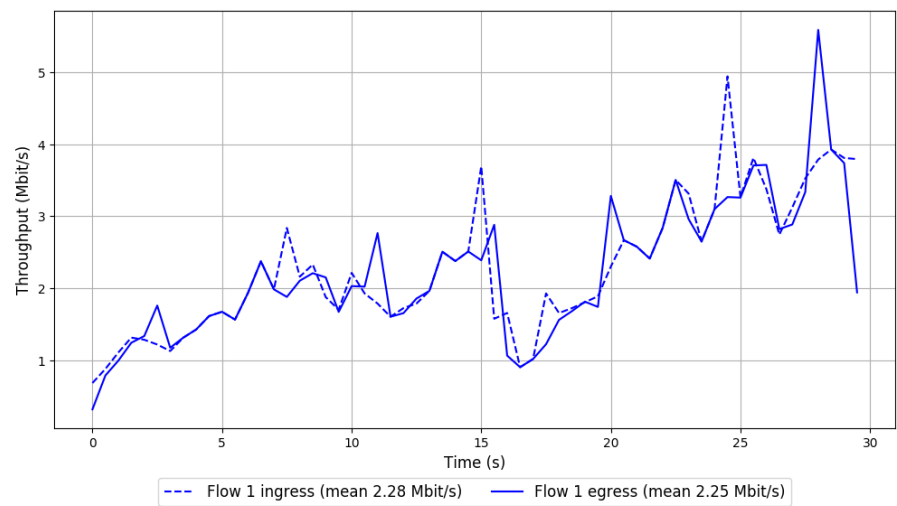
-- Flow 1:

Average throughput: 2.25 Mbit/s

95th percentile per-packet one-way delay: 103.256 ms

Loss rate: 2.11%

Run 10: Report of Sprout — Data Link

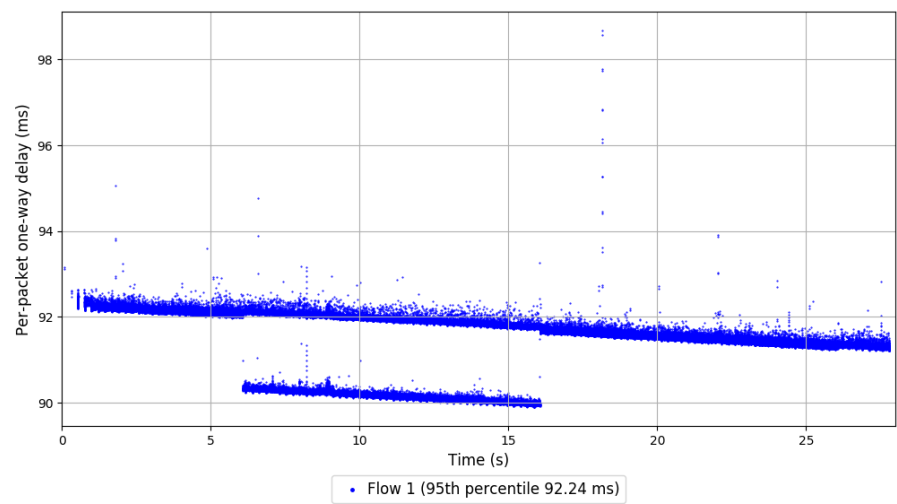
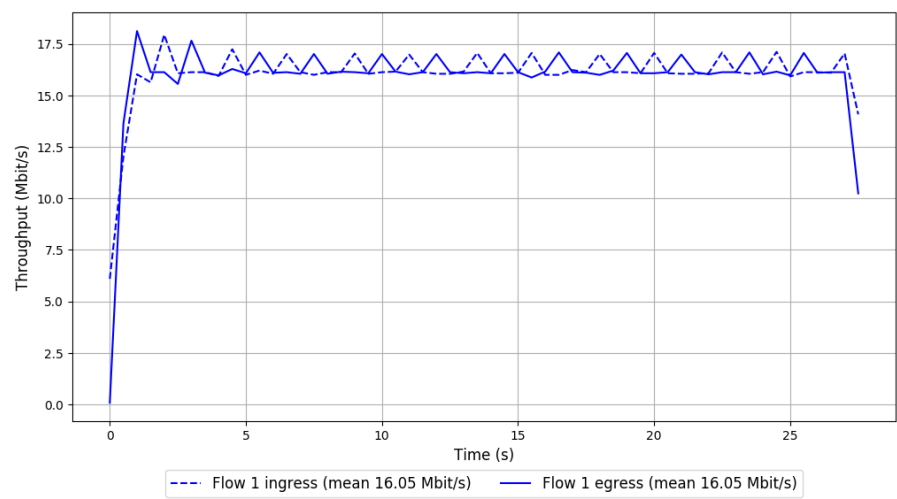


```
Run 1: Statistics of TaoVA-100x

Start at: 2017-11-30 05:17:46
End at: 2017-11-30 05:18:16

# Below is generated by plot.py at 2017-11-30 09:21:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 16.05 Mbit/s
95th percentile per-packet one-way delay: 92.238 ms
Loss rate: 0.82%
-- Flow 1:
Average throughput: 16.05 Mbit/s
95th percentile per-packet one-way delay: 92.238 ms
Loss rate: 0.82%
```

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

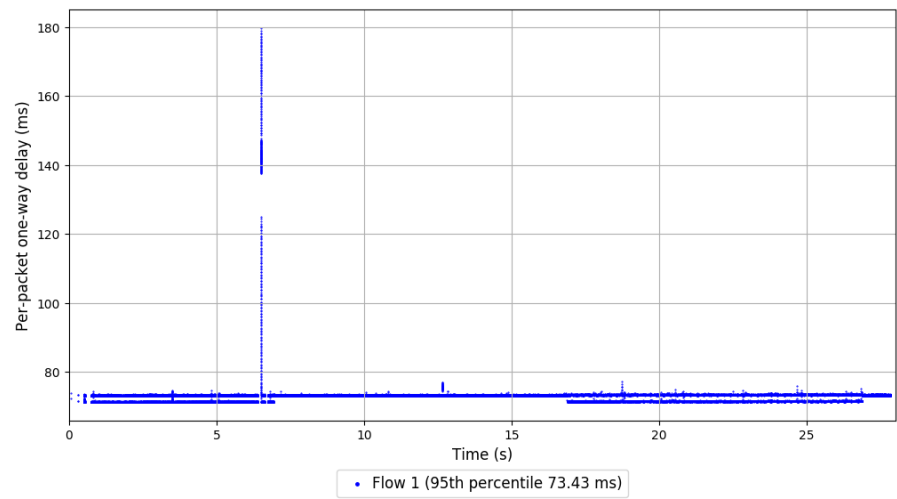
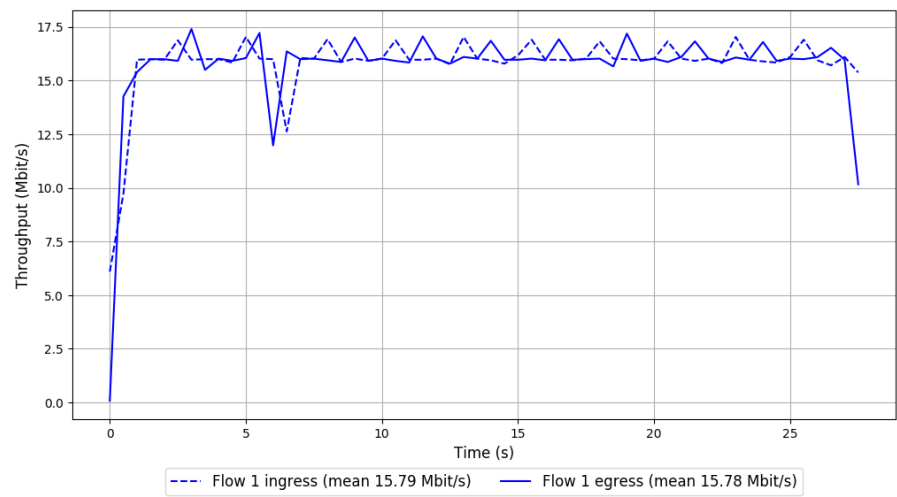


```
Run 2: Statistics of TaoVA-100x

Start at: 2017-11-30 05:28:35
End at: 2017-11-30 05:29:05

# Below is generated by plot.py at 2017-11-30 09:21:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 15.78 Mbit/s
95th percentile per-packet one-way delay: 73.430 ms
Loss rate: 0.83%
-- Flow 1:
Average throughput: 15.78 Mbit/s
95th percentile per-packet one-way delay: 73.430 ms
Loss rate: 0.83%
```

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



Run 3: Statistics of TaoVA-100x

Start at: 2017-11-30 05:39:26

End at: 2017-11-30 05:39:56

Below is generated by plot.py at 2017-11-30 09:21:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 105.36 Mbit/s

95th percentile per-packet one-way delay: 97.936 ms

Loss rate: 1.33%

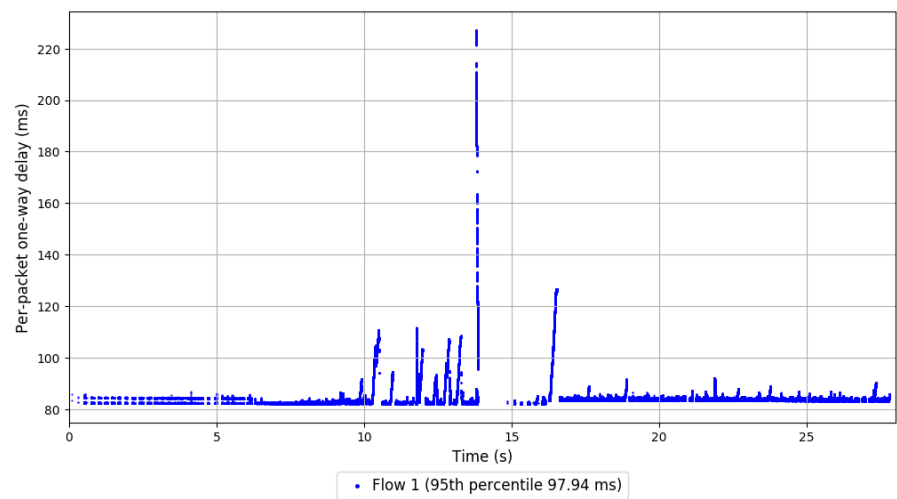
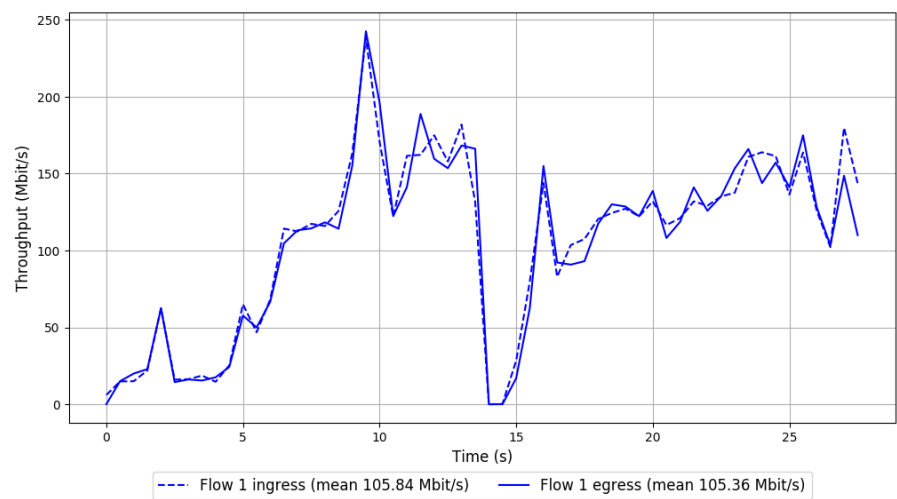
-- Flow 1:

Average throughput: 105.36 Mbit/s

95th percentile per-packet one-way delay: 97.936 ms

Loss rate: 1.33%

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



Run 4: Statistics of TaoVA-100x

Start at: 2017-11-30 05:50:39

End at: 2017-11-30 05:51:09

Below is generated by plot.py at 2017-11-30 09:21:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.76 Mbit/s

95th percentile per-packet one-way delay: 99.621 ms

Loss rate: 0.83%

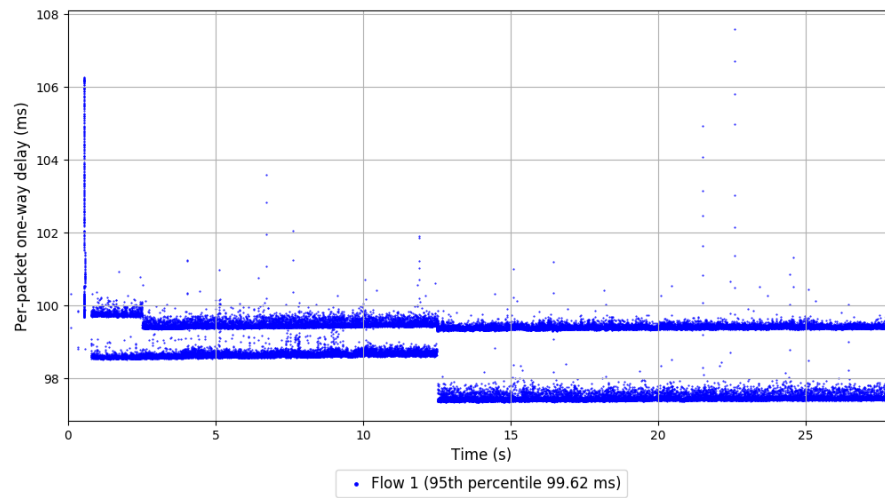
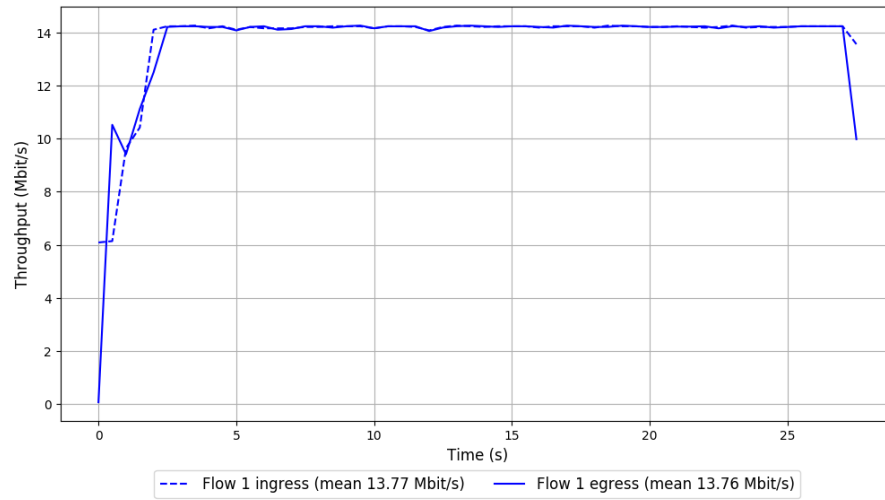
-- Flow 1:

Average throughput: 13.76 Mbit/s

95th percentile per-packet one-way delay: 99.621 ms

Loss rate: 0.83%

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



Run 5: Statistics of TaoVA-100x

Start at: 2017-11-30 06:01:25

End at: 2017-11-30 06:01:55

Below is generated by plot.py at 2017-11-30 09:22:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 159.81 Mbit/s

95th percentile per-packet one-way delay: 108.384 ms

Loss rate: 1.09%

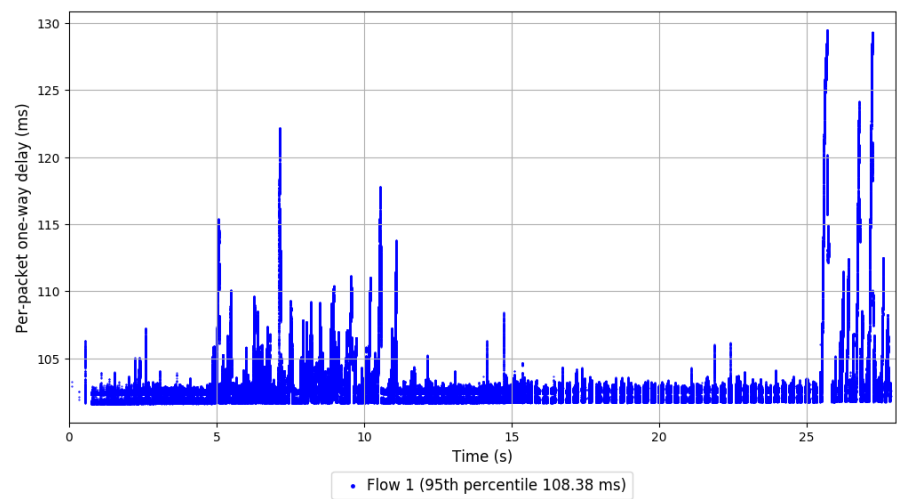
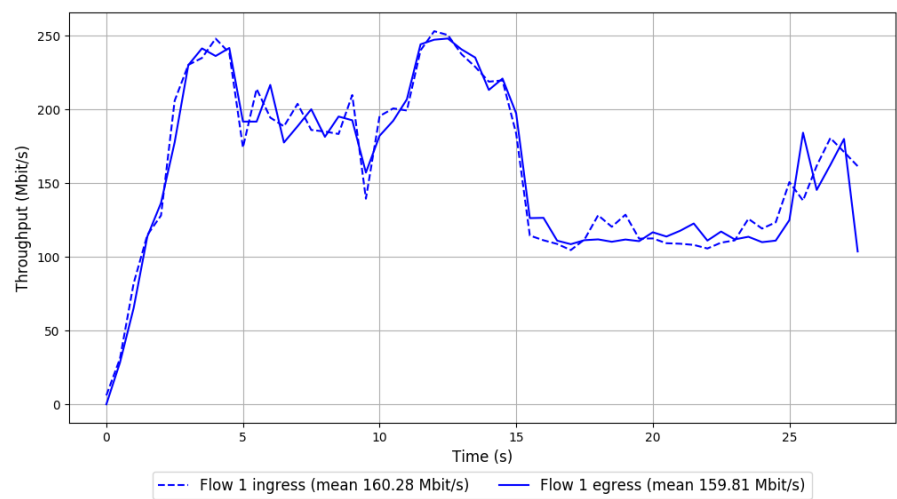
-- Flow 1:

Average throughput: 159.81 Mbit/s

95th percentile per-packet one-way delay: 108.384 ms

Loss rate: 1.09%

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



Run 6: Statistics of TaoVA-100x

Start at: 2017-11-30 06:12:32

End at: 2017-11-30 06:13:02

Below is generated by plot.py at 2017-11-30 09:22:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 14.24 Mbit/s

95th percentile per-packet one-way delay: 102.079 ms

Loss rate: 0.80%

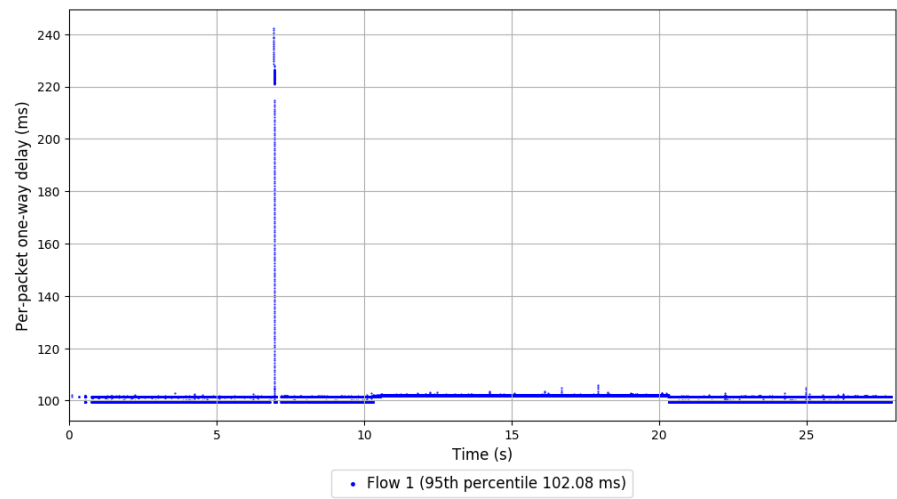
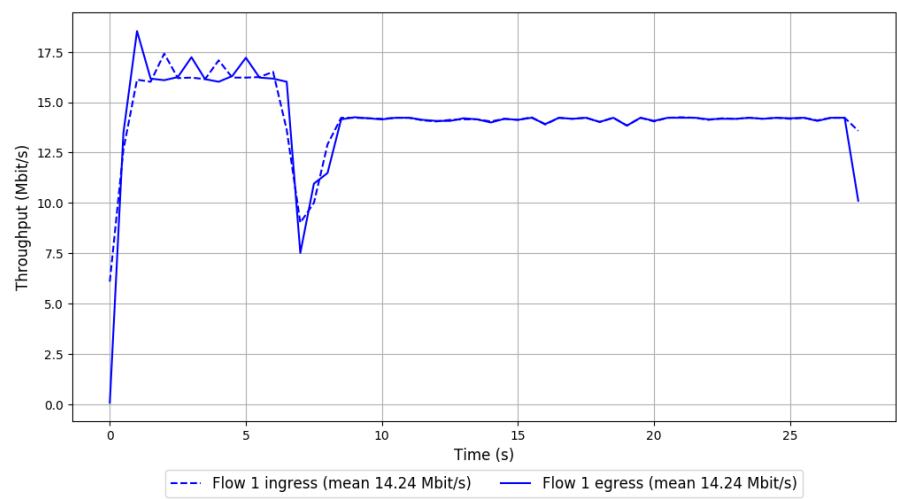
-- Flow 1:

Average throughput: 14.24 Mbit/s

95th percentile per-packet one-way delay: 102.079 ms

Loss rate: 0.80%

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



Run 7: Statistics of TaoVA-100x

Start at: 2017-11-30 06:23:19

End at: 2017-11-30 06:23:49

Below is generated by plot.py at 2017-11-30 09:22:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 48.70 Mbit/s

95th percentile per-packet one-way delay: 108.053 ms

Loss rate: 2.14%

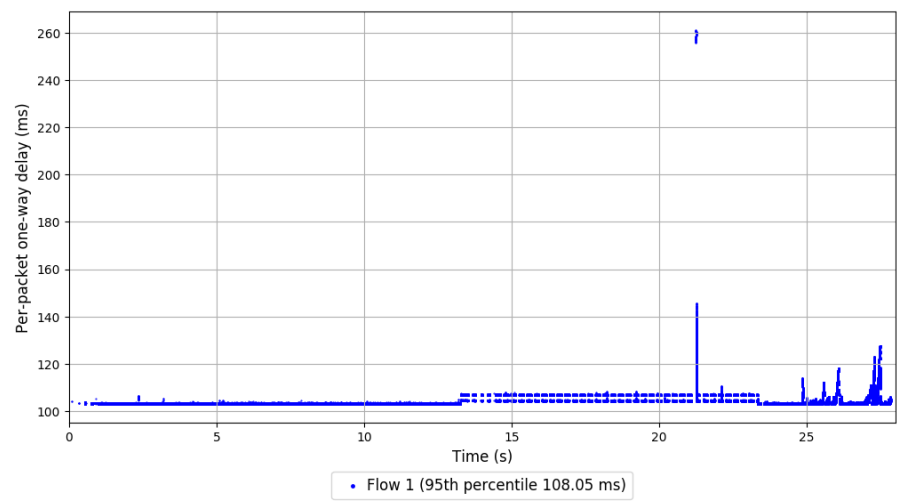
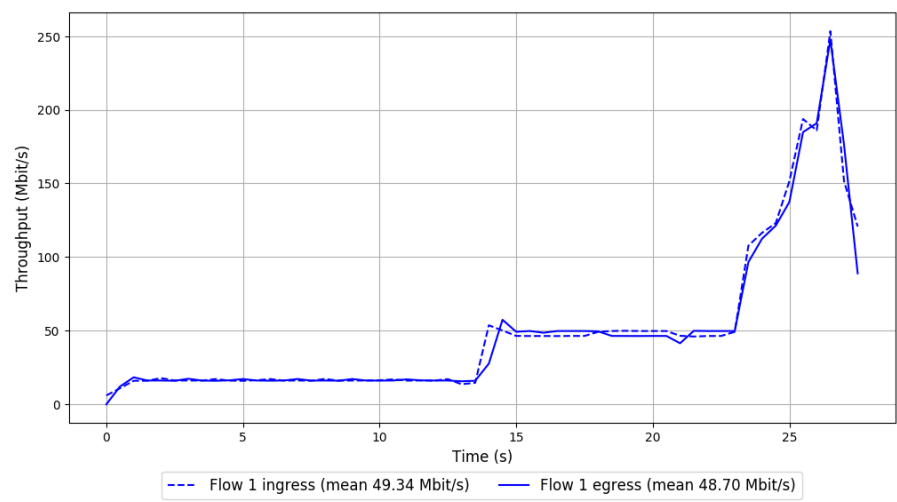
-- Flow 1:

Average throughput: 48.70 Mbit/s

95th percentile per-packet one-way delay: 108.053 ms

Loss rate: 2.14%

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



Run 8: Statistics of TaoVA-100x

Start at: 2017-11-30 06:34:19

End at: 2017-11-30 06:34:49

Below is generated by plot.py at 2017-11-30 09:22:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 21.41 Mbit/s

95th percentile per-packet one-way delay: 109.621 ms

Loss rate: 1.01%

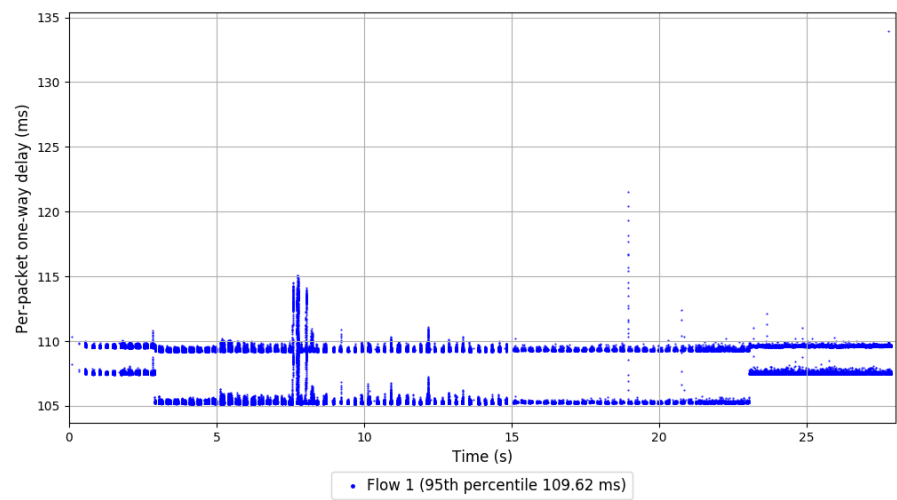
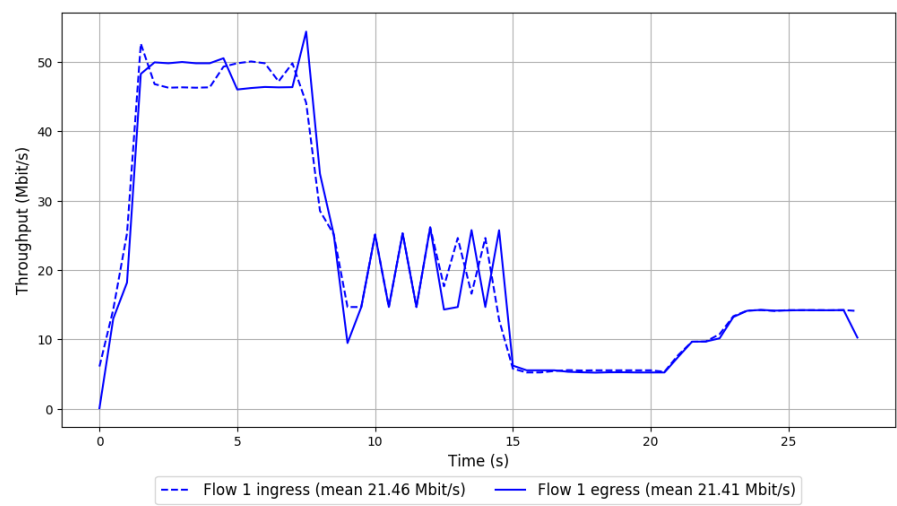
-- Flow 1:

Average throughput: 21.41 Mbit/s

95th percentile per-packet one-way delay: 109.621 ms

Loss rate: 1.01%

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



Run 9: Statistics of TaoVA-100x

Start at: 2017-11-30 06:45:18

End at: 2017-11-30 06:45:48

Below is generated by plot.py at 2017-11-30 09:22:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.12 Mbit/s

95th percentile per-packet one-way delay: 104.575 ms

Loss rate: 0.31%

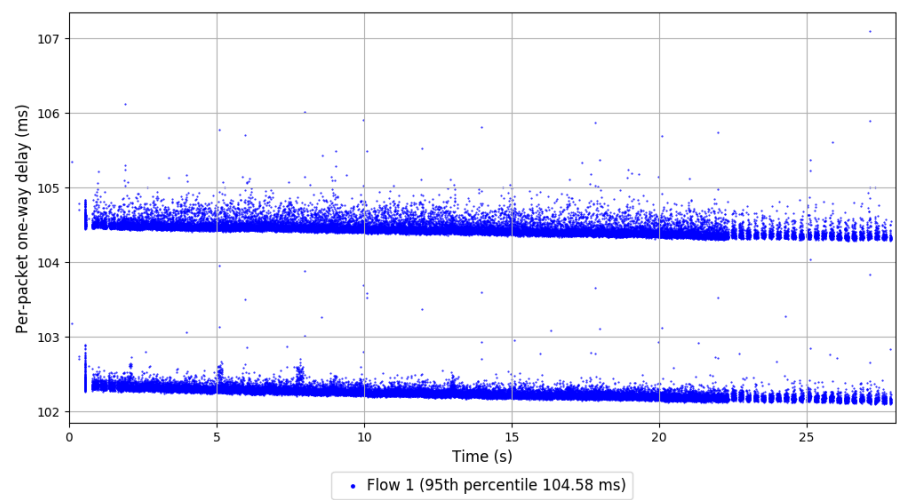
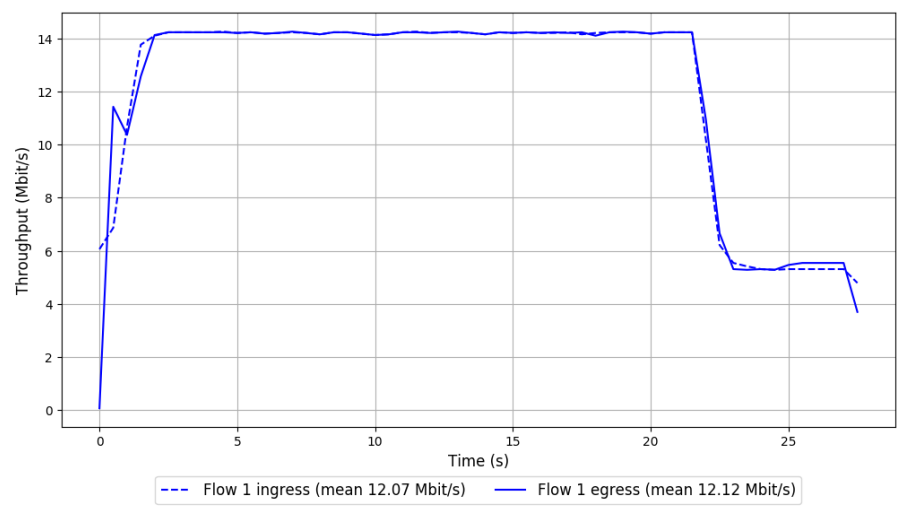
-- Flow 1:

Average throughput: 12.12 Mbit/s

95th percentile per-packet one-way delay: 104.575 ms

Loss rate: 0.31%

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

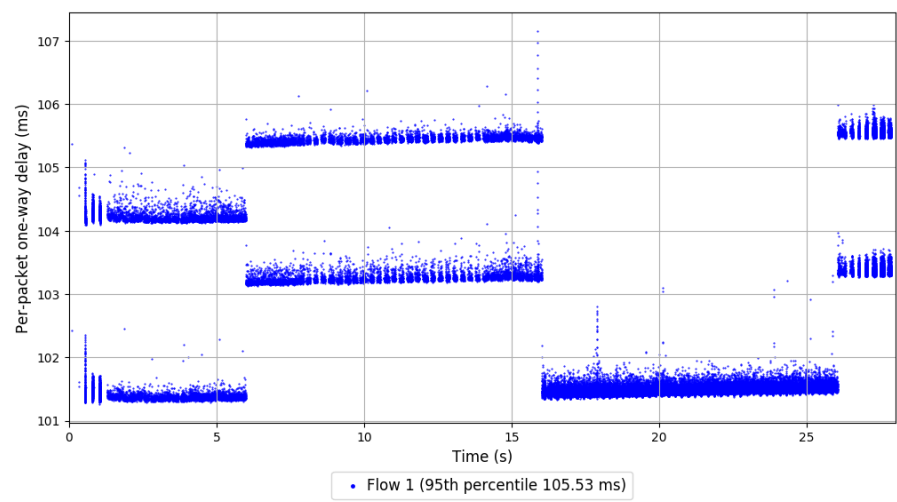
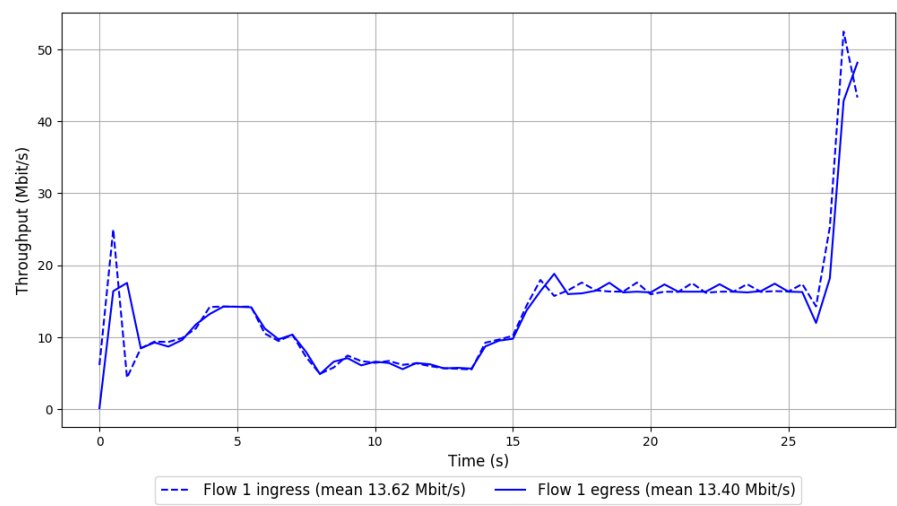


```
Run 10: Statistics of TaoVA-100x

Start at: 2017-11-30 06:56:16
End at: 2017-11-30 06:56:46

# Below is generated by plot.py at 2017-11-30 09:22:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 13.40 Mbit/s
95th percentile per-packet one-way delay: 105.535 ms
Loss rate: 2.39%
-- Flow 1:
Average throughput: 13.40 Mbit/s
95th percentile per-packet one-way delay: 105.535 ms
Loss rate: 2.39%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2017-11-30 05:18:28

End at: 2017-11-30 05:18:58

Below is generated by plot.py at 2017-11-30 09:22:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.96 Mbit/s

95th percentile per-packet one-way delay: 91.627 ms

Loss rate: 2.10%

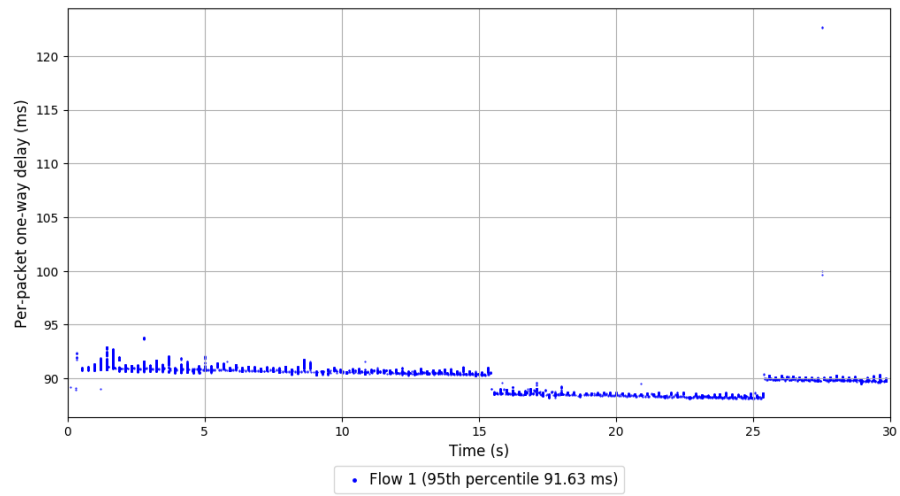
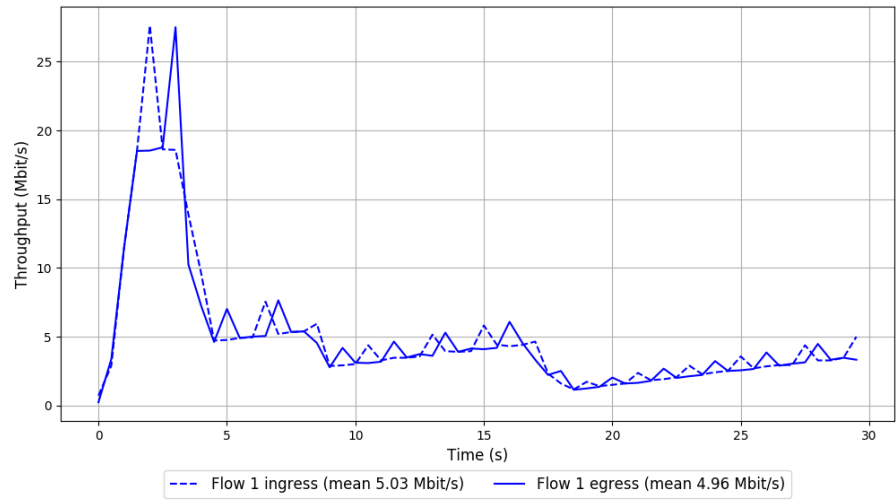
-- Flow 1:

Average throughput: 4.96 Mbit/s

95th percentile per-packet one-way delay: 91.627 ms

Loss rate: 2.10%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2017-11-30 05:29:18

End at: 2017-11-30 05:29:48

Below is generated by plot.py at 2017-11-30 09:22:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.54 Mbit/s

95th percentile per-packet one-way delay: 75.543 ms

Loss rate: 0.33%

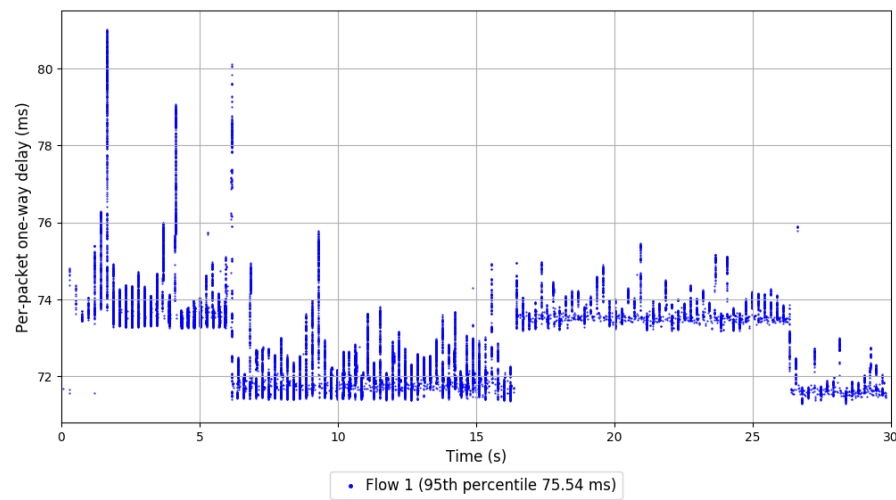
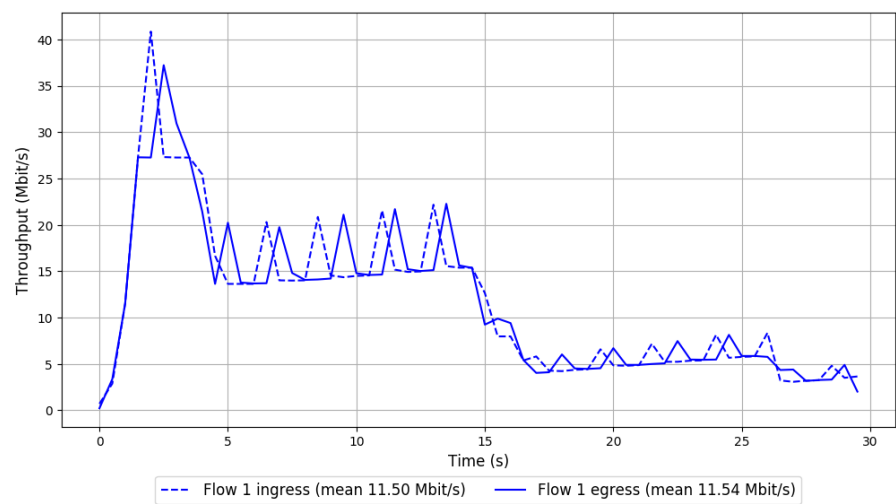
-- Flow 1:

Average throughput: 11.54 Mbit/s

95th percentile per-packet one-way delay: 75.543 ms

Loss rate: 0.33%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2017-11-30 05:40:17

End at: 2017-11-30 05:40:48

Below is generated by plot.py at 2017-11-30 09:22:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 30.39 Mbit/s

95th percentile per-packet one-way delay: 86.364 ms

Loss rate: 0.70%

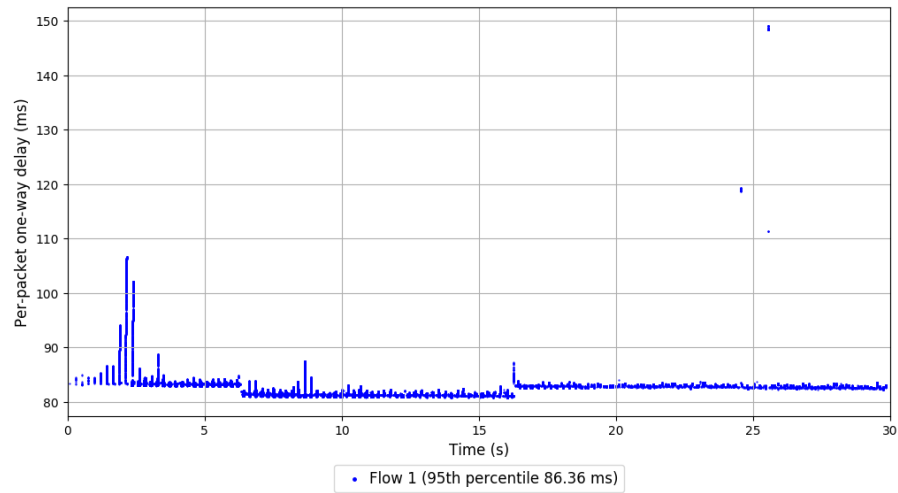
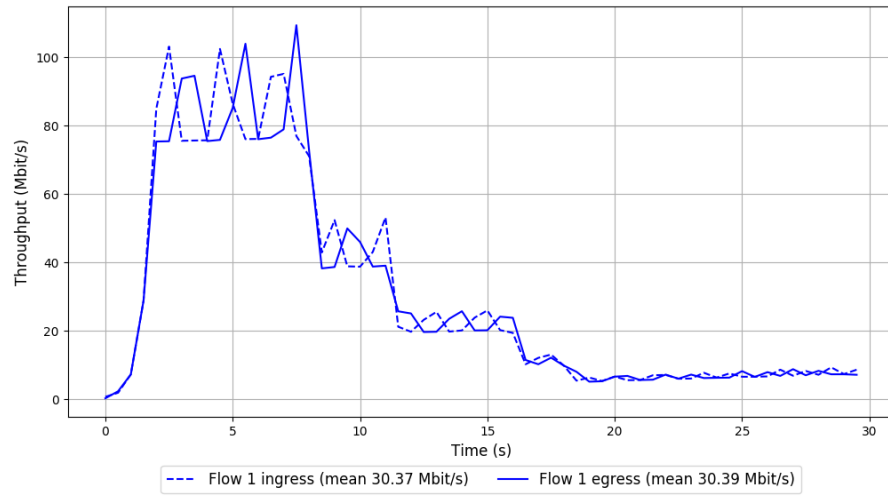
-- Flow 1:

Average throughput: 30.39 Mbit/s

95th percentile per-packet one-way delay: 86.364 ms

Loss rate: 0.70%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2017-11-30 05:51:22

End at: 2017-11-30 05:51:52

Below is generated by plot.py at 2017-11-30 09:22:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.49 Mbit/s

95th percentile per-packet one-way delay: 101.426 ms

Loss rate: 1.84%

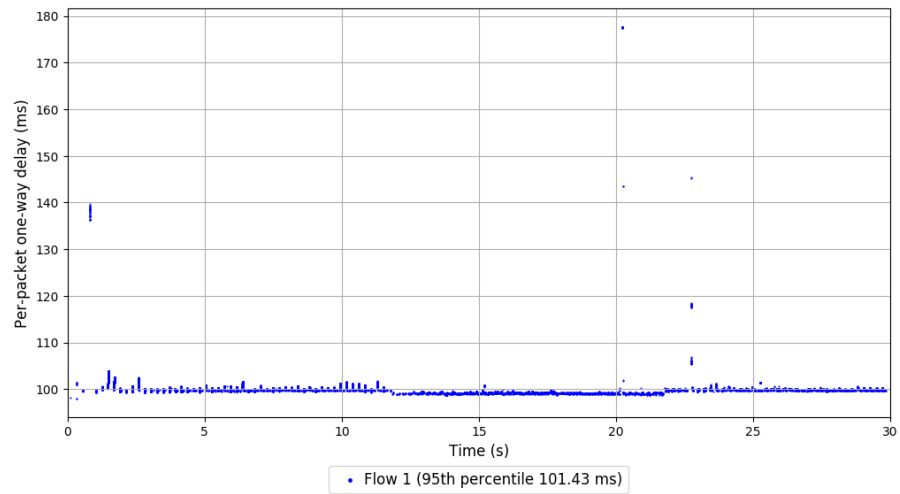
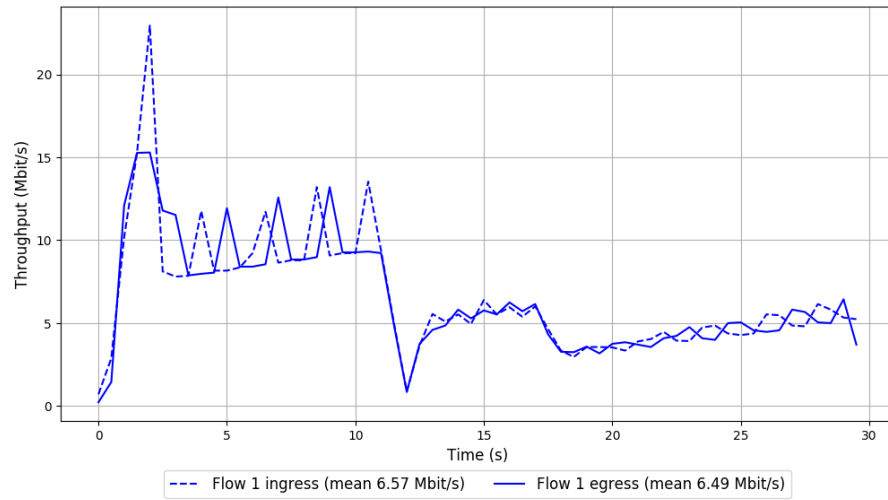
-- Flow 1:

Average throughput: 6.49 Mbit/s

95th percentile per-packet one-way delay: 101.426 ms

Loss rate: 1.84%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2017-11-30 06:02:22

End at: 2017-11-30 06:02:52

Below is generated by plot.py at 2017-11-30 09:22:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.13 Mbit/s

95th percentile per-packet one-way delay: 104.912 ms

Loss rate: 0.54%

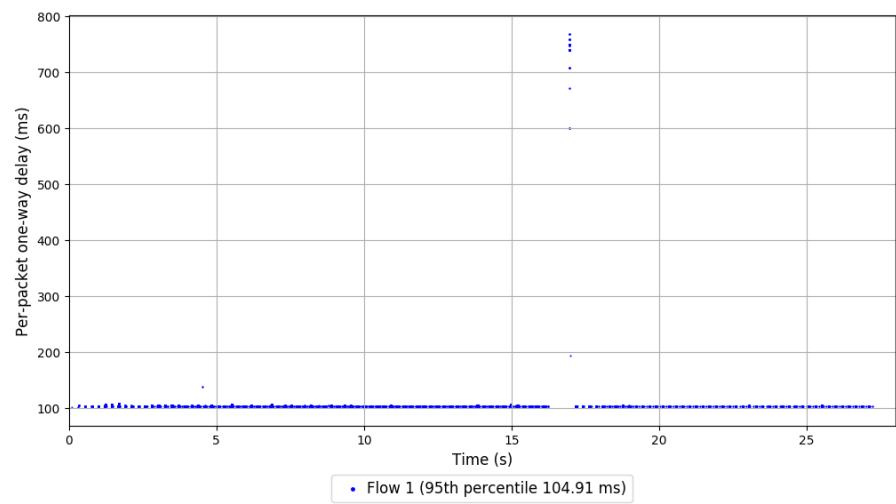
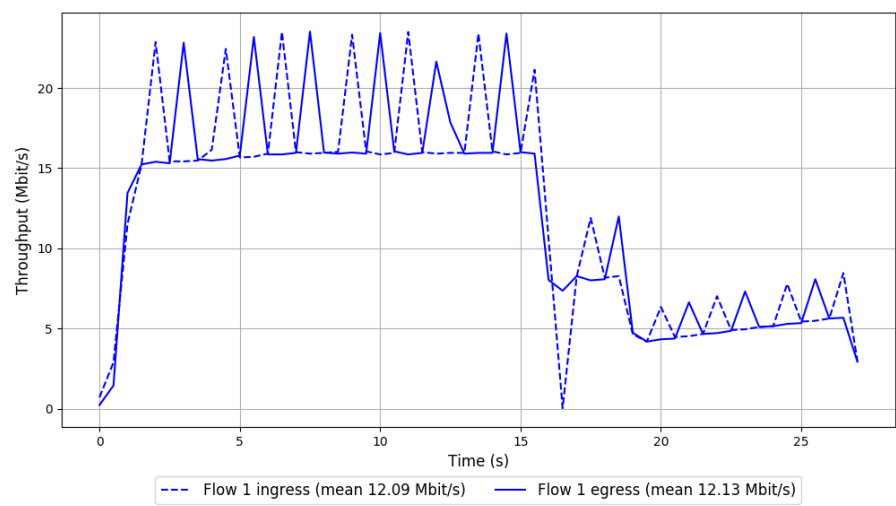
-- Flow 1:

Average throughput: 12.13 Mbit/s

95th percentile per-packet one-way delay: 104.912 ms

Loss rate: 0.54%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2017-11-30 06:13:14

End at: 2017-11-30 06:13:44

Below is generated by plot.py at 2017-11-30 09:22:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 9.81 Mbit/s

95th percentile per-packet one-way delay: 103.868 ms

Loss rate: 0.52%

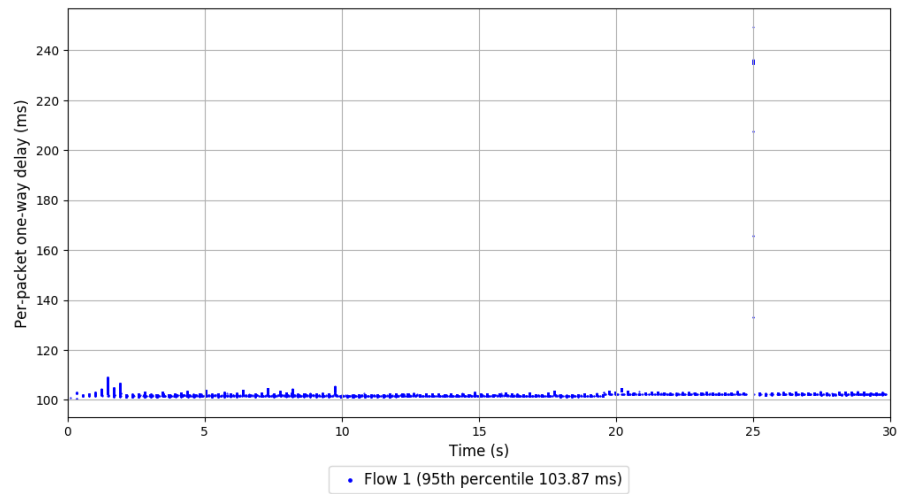
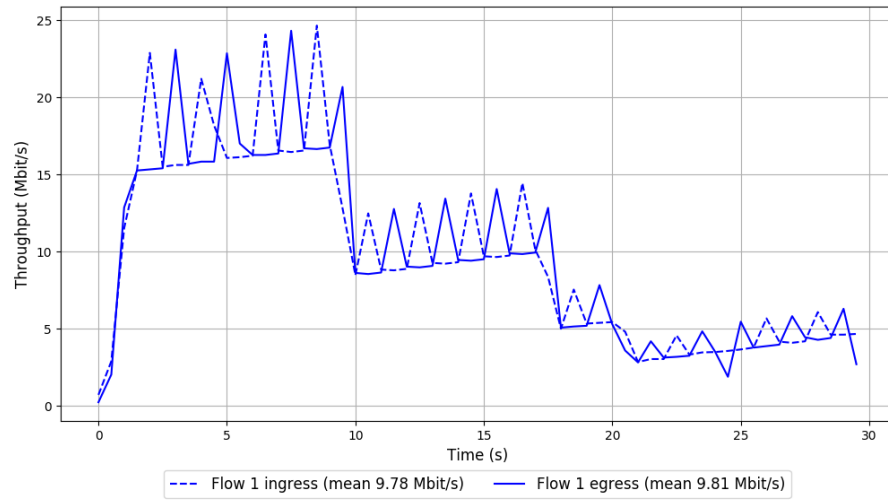
-- Flow 1:

Average throughput: 9.81 Mbit/s

95th percentile per-packet one-way delay: 103.868 ms

Loss rate: 0.52%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2017-11-30 06:24:05

End at: 2017-11-30 06:24:35

Below is generated by plot.py at 2017-11-30 09:22:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.84 Mbit/s

95th percentile per-packet one-way delay: 107.583 ms

Loss rate: 1.08%

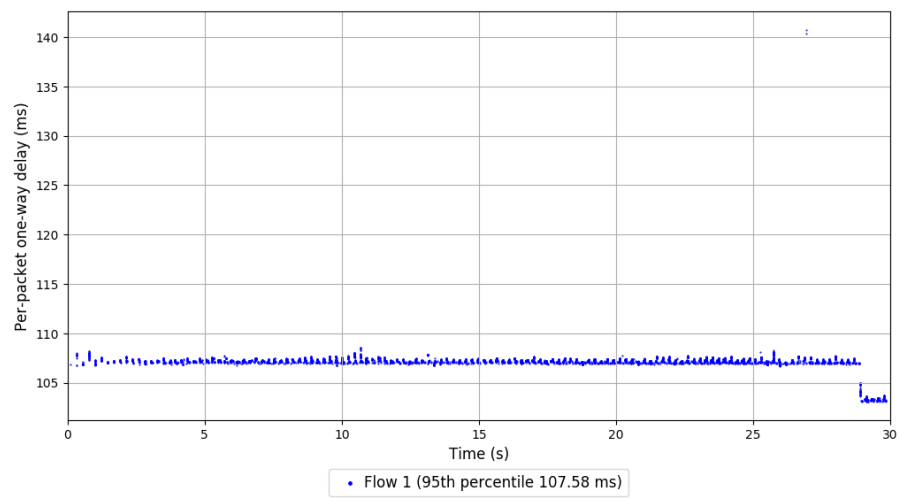
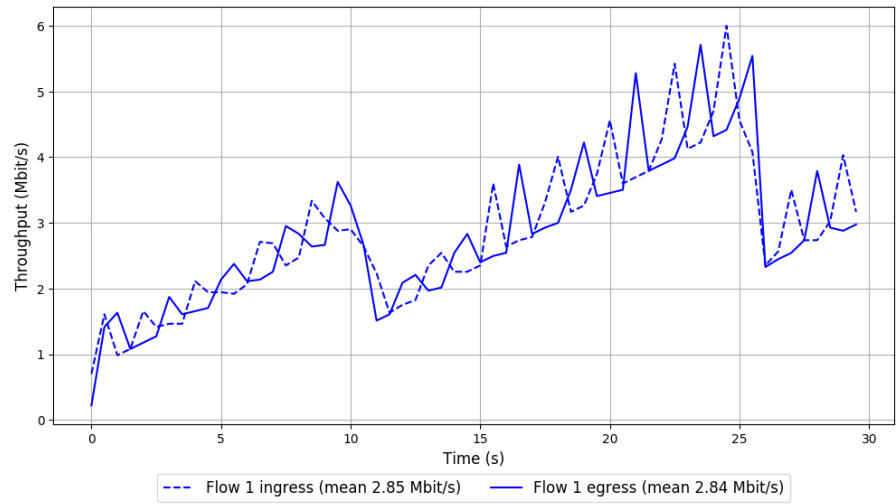
-- Flow 1:

Average throughput: 2.84 Mbit/s

95th percentile per-packet one-way delay: 107.583 ms

Loss rate: 1.08%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2017-11-30 06:35:02

End at: 2017-11-30 06:35:32

Below is generated by plot.py at 2017-11-30 09:22:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 17.95 Mbit/s

95th percentile per-packet one-way delay: 106.869 ms

Loss rate: 0.55%

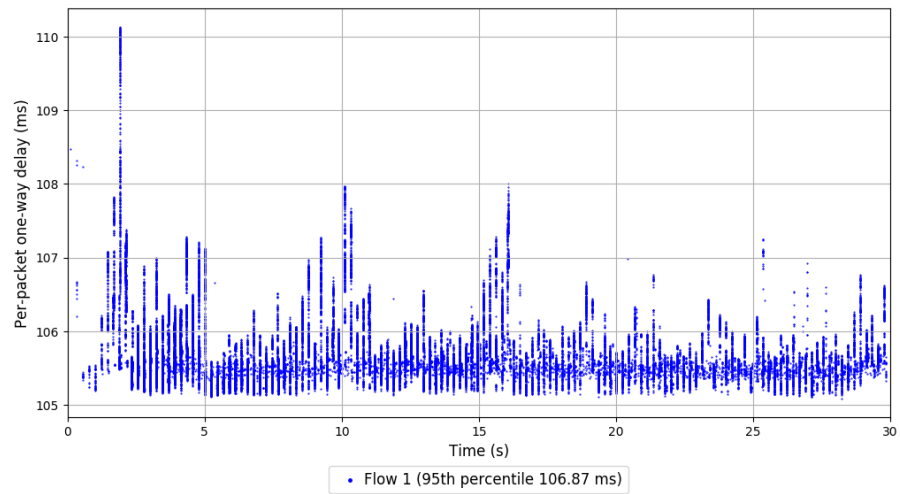
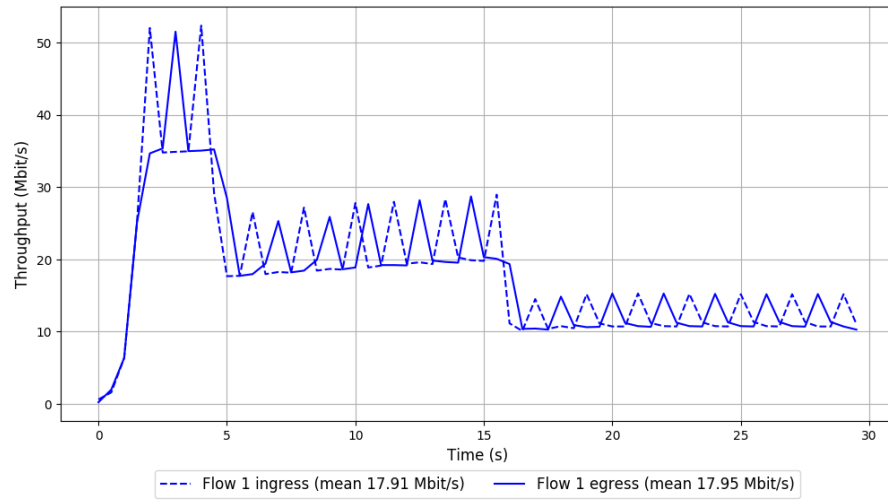
-- Flow 1:

Average throughput: 17.95 Mbit/s

95th percentile per-packet one-way delay: 106.869 ms

Loss rate: 0.55%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2017-11-30 06:46:00

End at: 2017-11-30 06:46:30

Below is generated by plot.py at 2017-11-30 09:22:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 41.24 Mbit/s

95th percentile per-packet one-way delay: 112.487 ms

Loss rate: 0.18%

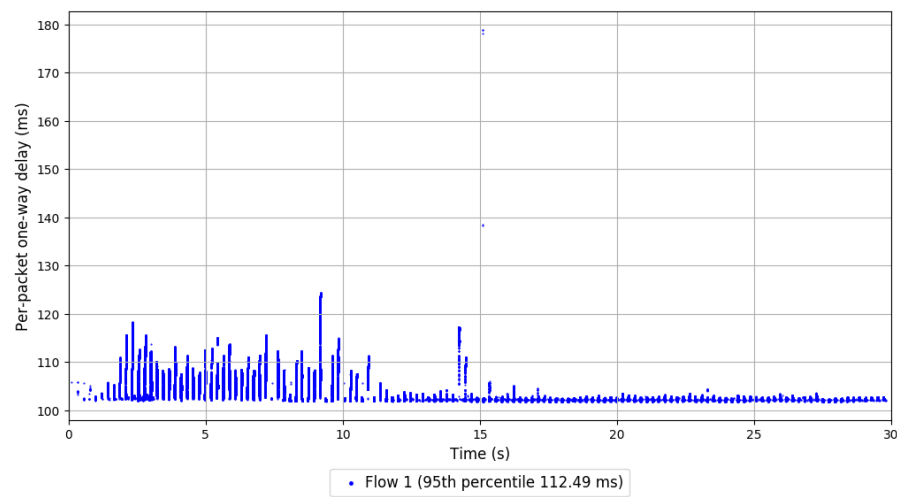
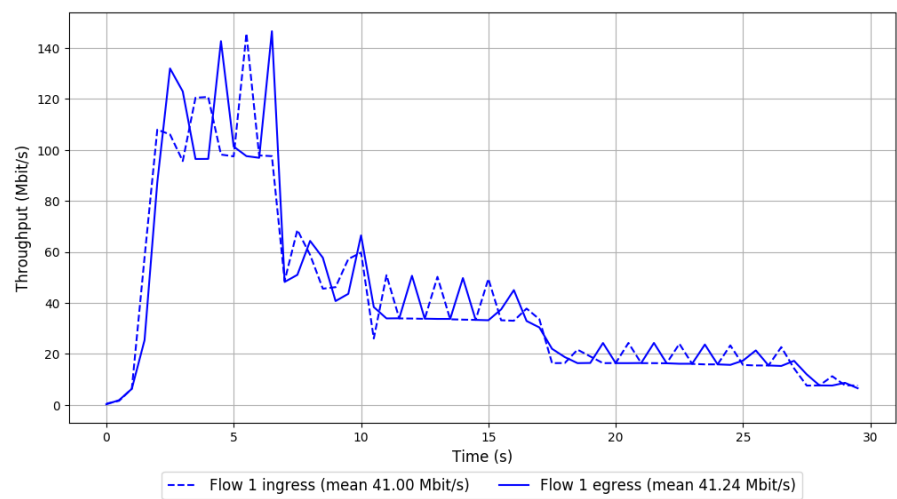
-- Flow 1:

Average throughput: 41.24 Mbit/s

95th percentile per-packet one-way delay: 112.487 ms

Loss rate: 0.18%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2017-11-30 06:56:59

End at: 2017-11-30 06:57:29

Below is generated by plot.py at 2017-11-30 09:22:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 19.54 Mbit/s

95th percentile per-packet one-way delay: 107.181 ms

Loss rate: 0.40%

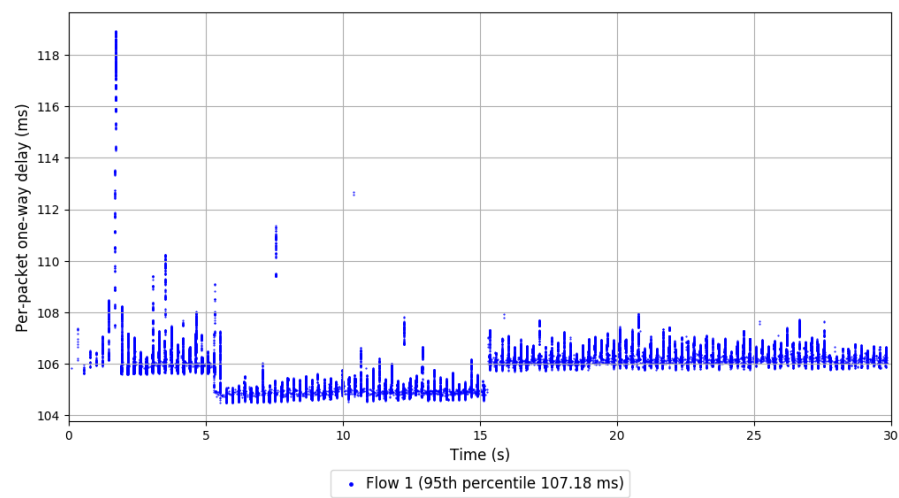
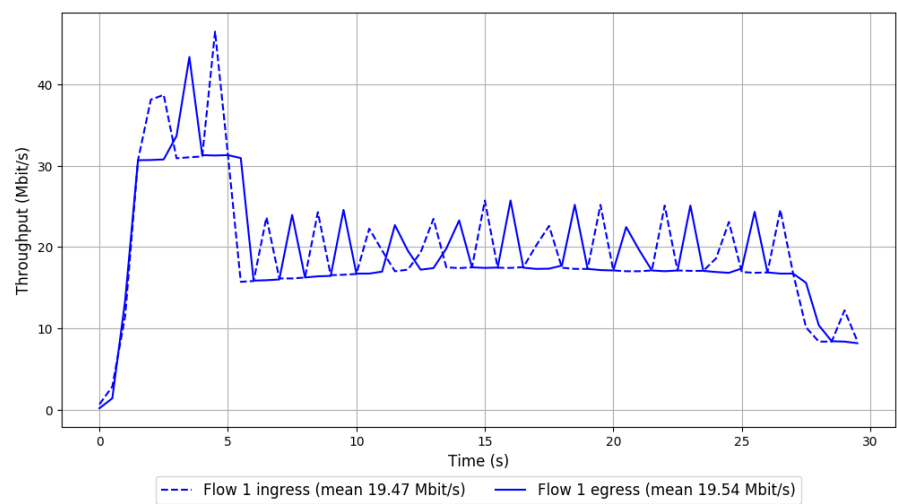
-- Flow 1:

Average throughput: 19.54 Mbit/s

95th percentile per-packet one-way delay: 107.181 ms

Loss rate: 0.40%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2017-11-30 05:19:10

End at: 2017-11-30 05:19:40

Below is generated by plot.py at 2017-11-30 09:23:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 212.44 Mbit/s

95th percentile per-packet one-way delay: 154.090 ms

Loss rate: 1.83%

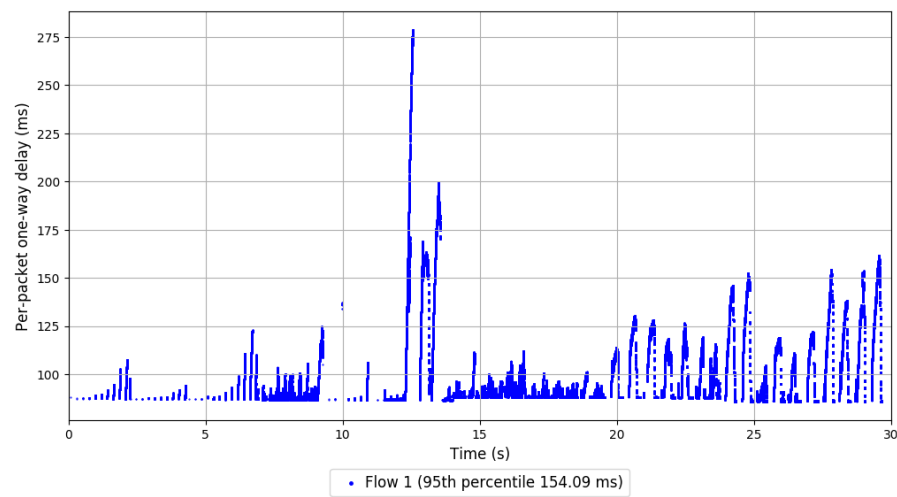
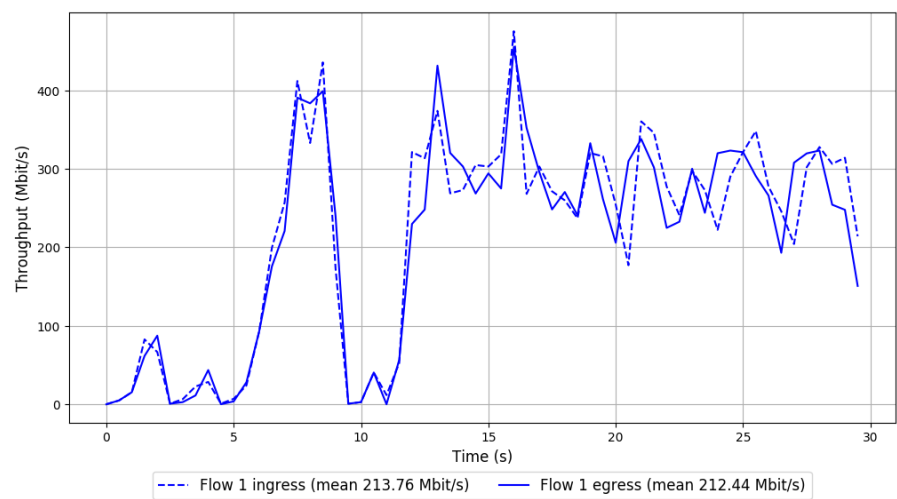
-- Flow 1:

Average throughput: 212.44 Mbit/s

95th percentile per-packet one-way delay: 154.090 ms

Loss rate: 1.83%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2017-11-30 05:30:00

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

Below is generated by plot.py at 2017-11-30 09:23:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.38 Mbit/s

95th percentile per-packet one-way delay: 211.767 ms

Loss rate: 3.18%

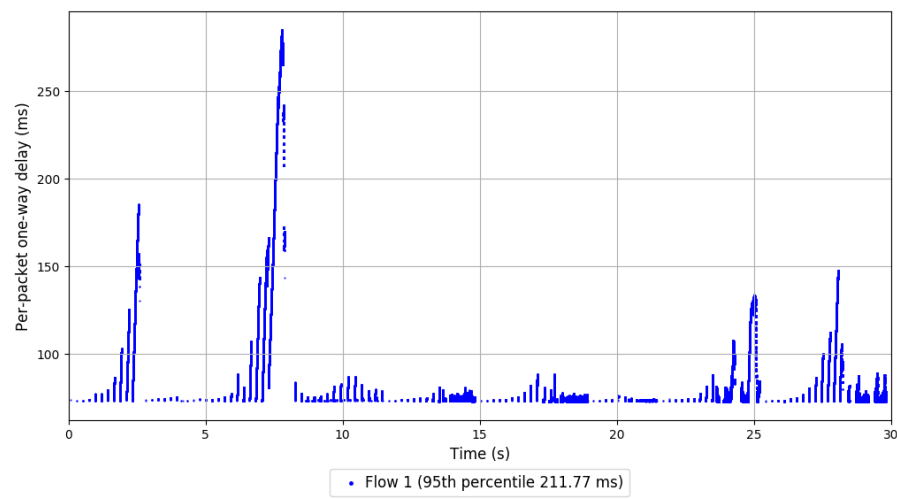
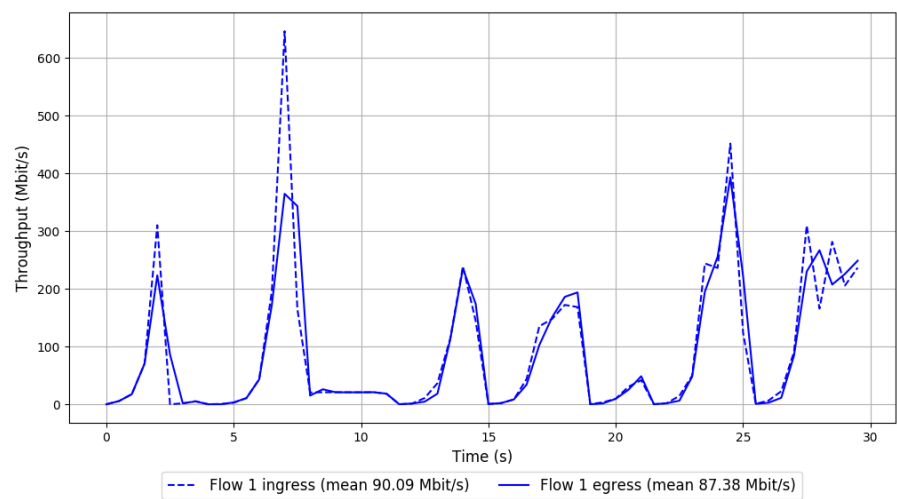
-- Flow 1:

Average throughput: 87.38 Mbit/s

95th percentile per-packet one-way delay: 211.767 ms

Loss rate: 3.18%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2017-11-30 05:41:01

End at: 2017-11-30 05:41:31

Below is generated by plot.py at 2017-11-30 09:23:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 209.52 Mbit/s

95th percentile per-packet one-way delay: 139.299 ms

Loss rate: 1.53%

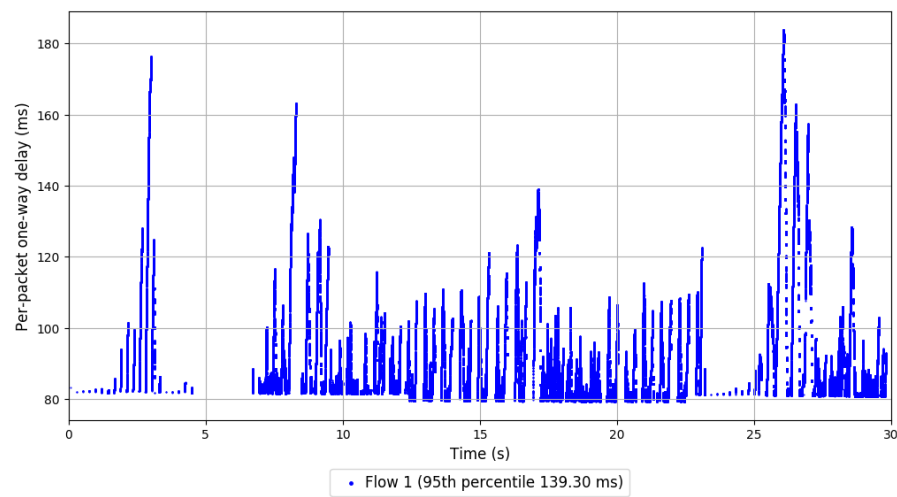
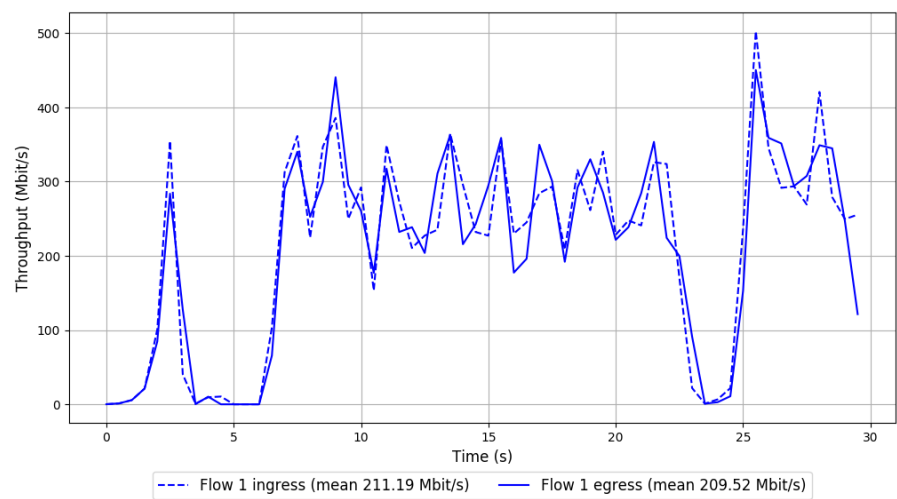
-- Flow 1:

Average throughput: 209.52 Mbit/s

95th percentile per-packet one-way delay: 139.299 ms

Loss rate: 1.53%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2017-11-30 05:52:04

End at: 2017-11-30 05:52:34

Below is generated by plot.py at 2017-11-30 09:23:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 142.31 Mbit/s

95th percentile per-packet one-way delay: 157.717 ms

Loss rate: 0.46%

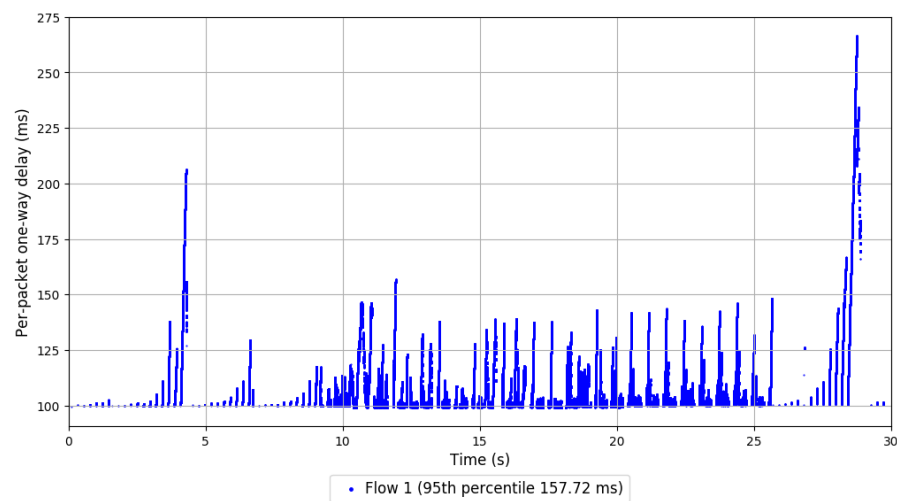
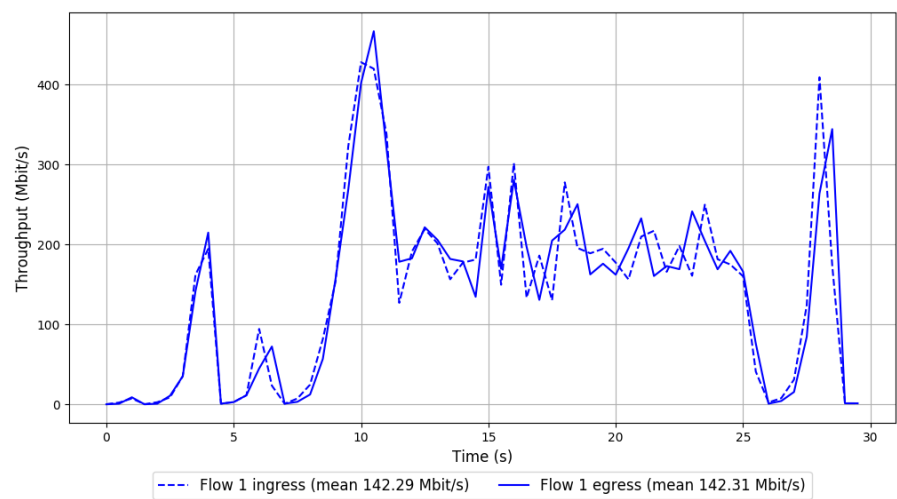
-- Flow 1:

Average throughput: 142.31 Mbit/s

95th percentile per-packet one-way delay: 157.717 ms

Loss rate: 0.46%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2017-11-30 06:03:04

End at: 2017-11-30 06:03:34

Below is generated by plot.py at 2017-11-30 09:23:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 205.13 Mbit/s

95th percentile per-packet one-way delay: 126.269 ms

Loss rate: 0.29%

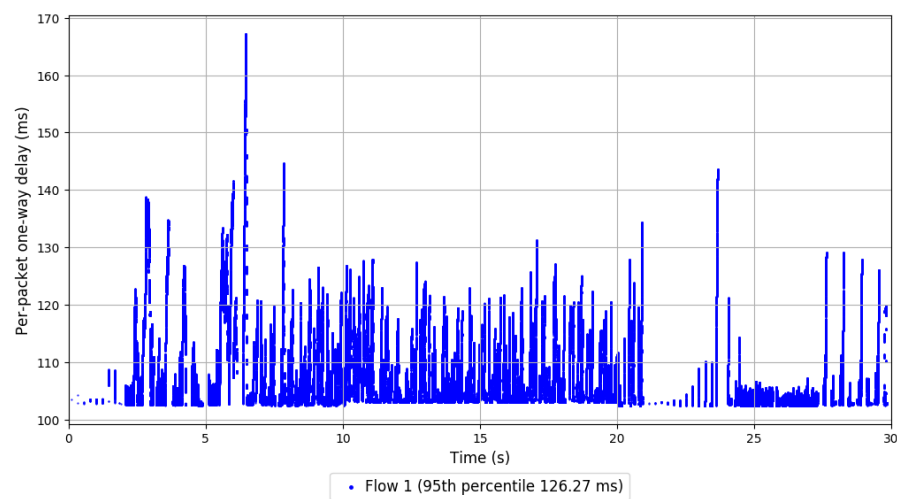
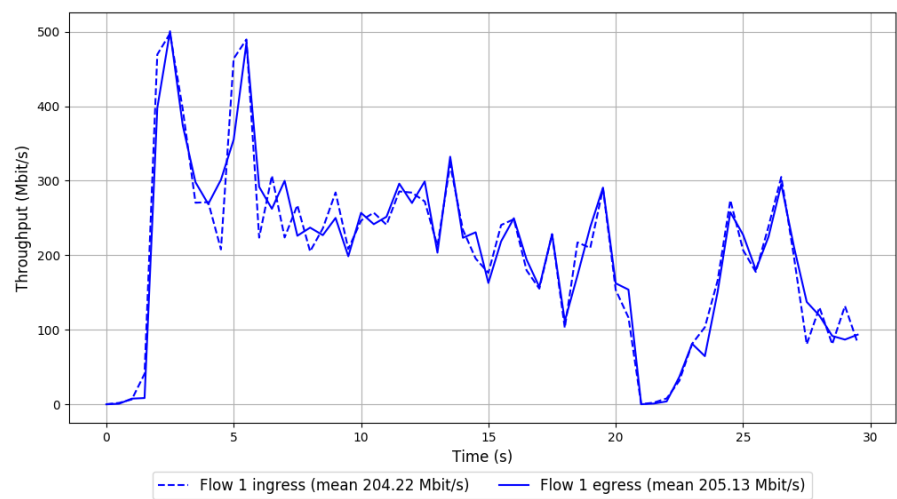
-- Flow 1:

Average throughput: 205.13 Mbit/s

95th percentile per-packet one-way delay: 126.269 ms

Loss rate: 0.29%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2017-11-30 06:13:56

End at: 2017-11-30 06:14:26

Below is generated by plot.py at 2017-11-30 09:23:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.84 Mbit/s

95th percentile per-packet one-way delay: 211.186 ms

Loss rate: 3.86%

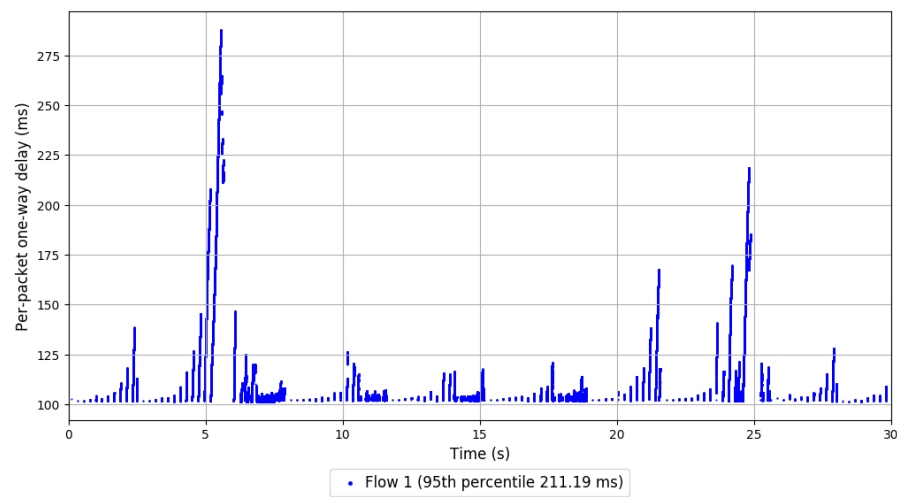
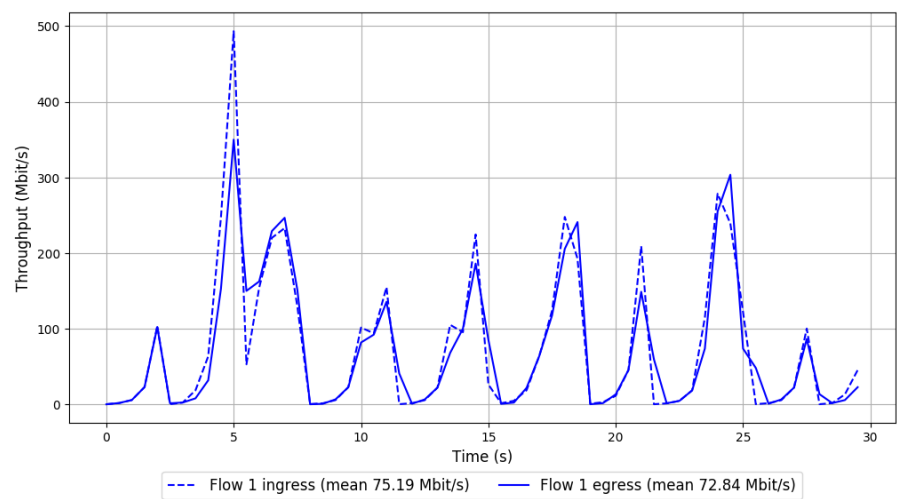
-- Flow 1:

Average throughput: 72.84 Mbit/s

95th percentile per-packet one-way delay: 211.186 ms

Loss rate: 3.86%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2017-11-30 06:24:46

End at: 2017-11-30 06:25:16

Below is generated by plot.py at 2017-11-30 09:23:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 141.61 Mbit/s

95th percentile per-packet one-way delay: 347.807 ms

Loss rate: 27.38%

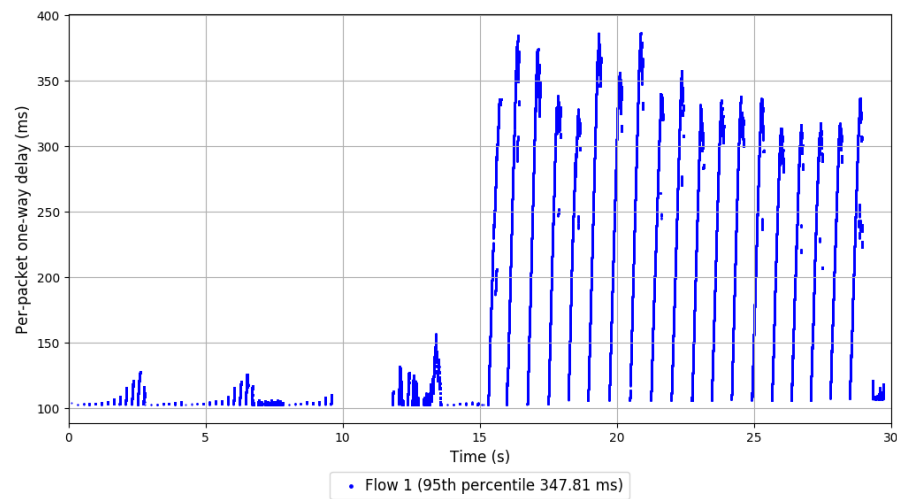
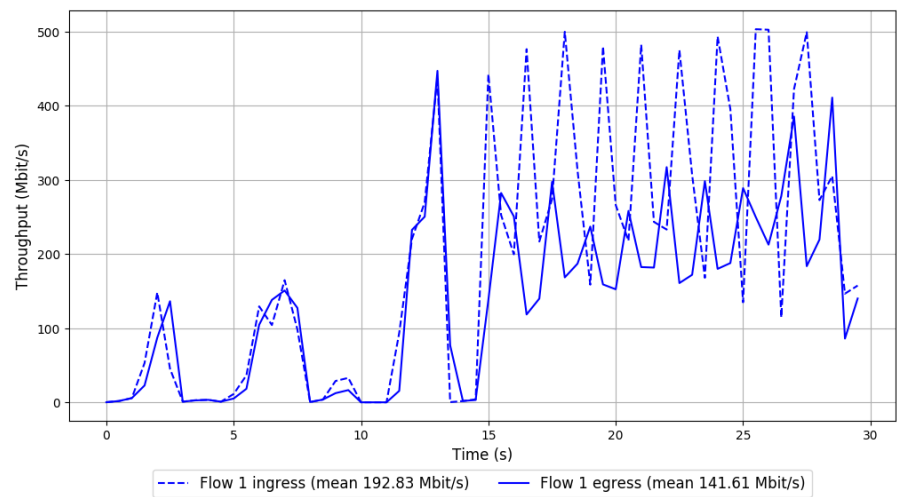
-- Flow 1:

Average throughput: 141.61 Mbit/s

95th percentile per-packet one-way delay: 347.807 ms

Loss rate: 27.38%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2017-11-30 06:35:45

End at: 2017-11-30 06:36:15

Below is generated by plot.py at 2017-11-30 09:24:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 150.54 Mbit/s

95th percentile per-packet one-way delay: 192.213 ms

Loss rate: 1.38%

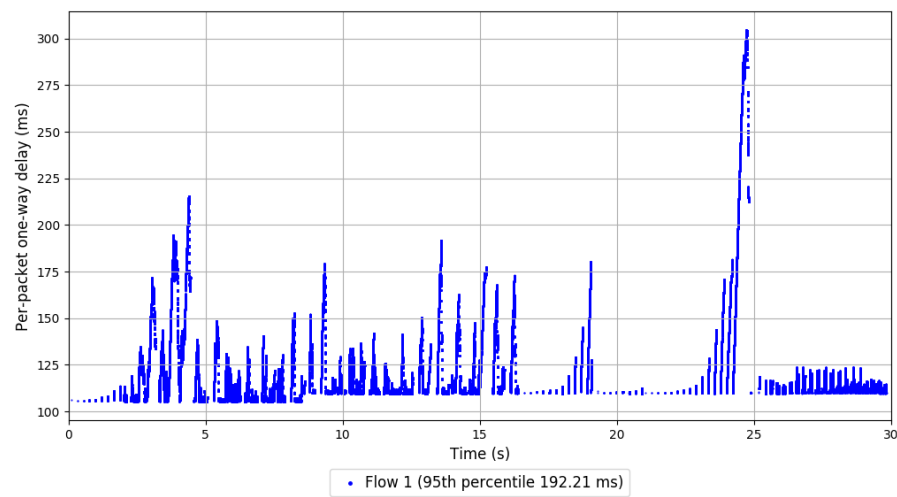
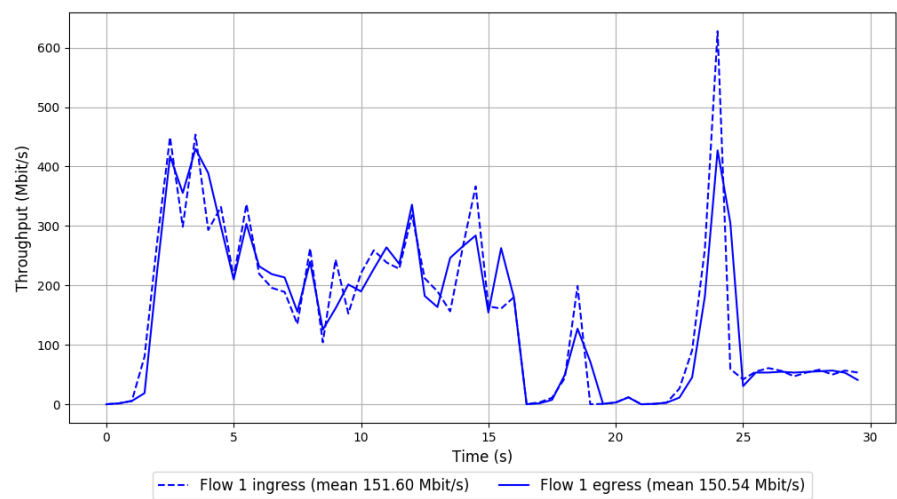
-- Flow 1:

Average throughput: 150.54 Mbit/s

95th percentile per-packet one-way delay: 192.213 ms

Loss rate: 1.38%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2017-11-30 06:46:45

End at: 2017-11-30 06:47:15

Below is generated by plot.py at 2017-11-30 09:24:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 130.86 Mbit/s

95th percentile per-packet one-way delay: 310.165 ms

Loss rate: 15.57%

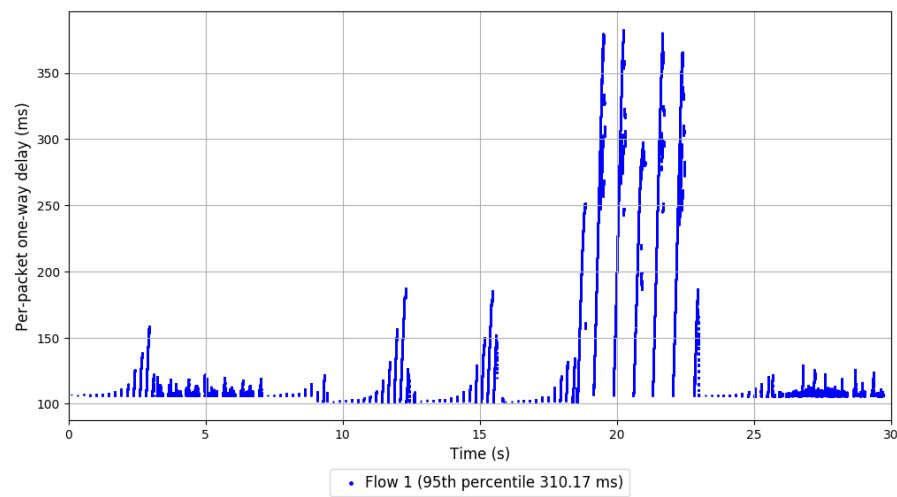
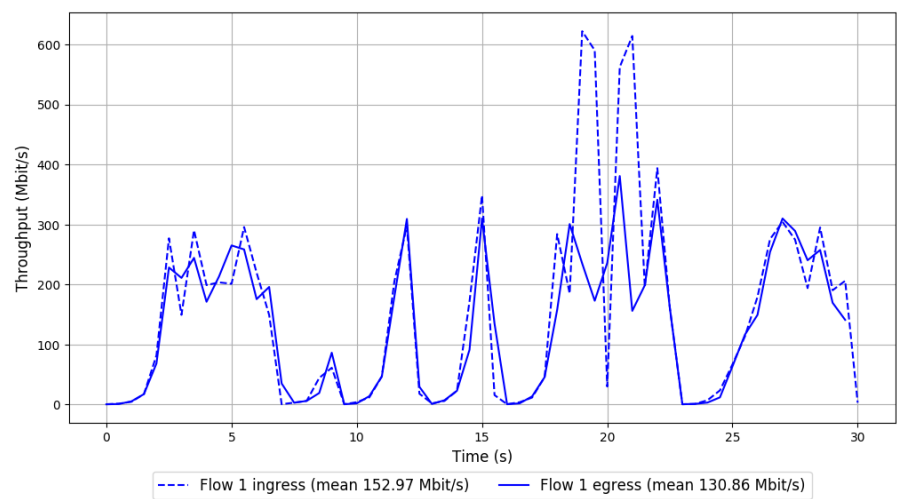
-- Flow 1:

Average throughput: 130.86 Mbit/s

95th percentile per-packet one-way delay: 310.165 ms

Loss rate: 15.57%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2017-11-30 06:57:41

End at: 2017-11-30 06:58:11

Below is generated by plot.py at 2017-11-30 09:25:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 140.65 Mbit/s

95th percentile per-packet one-way delay: 188.645 ms

Loss rate: 1.91%

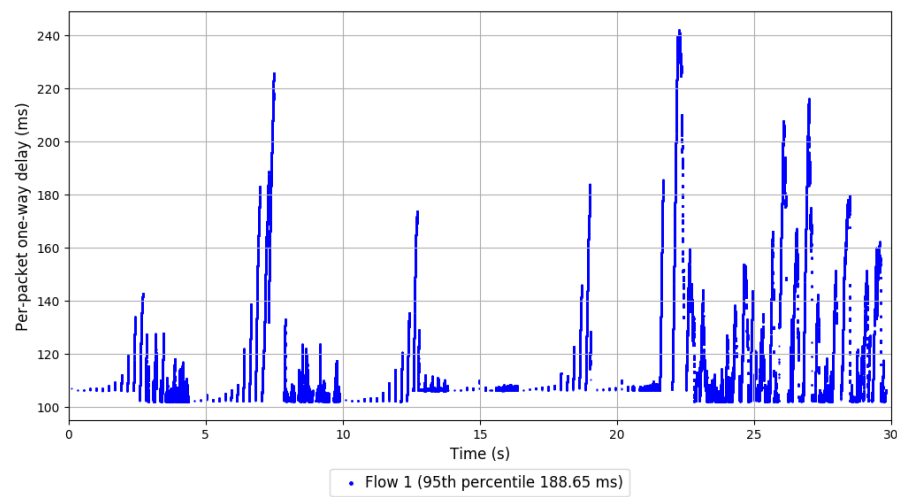
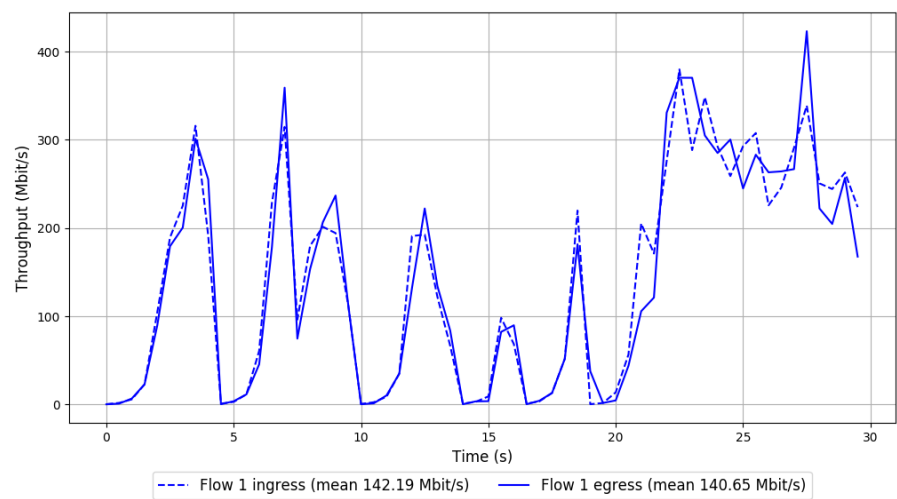
-- Flow 1:

Average throughput: 140.65 Mbit/s

95th percentile per-packet one-way delay: 188.645 ms

Loss rate: 1.91%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2017-11-30 05:25:35

End at: 2017-11-30 05:26:05

Below is generated by plot.py at 2017-11-30 09:25:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 62.98 Mbit/s

95th percentile per-packet one-way delay: 67.365 ms

Loss rate: 0.81%

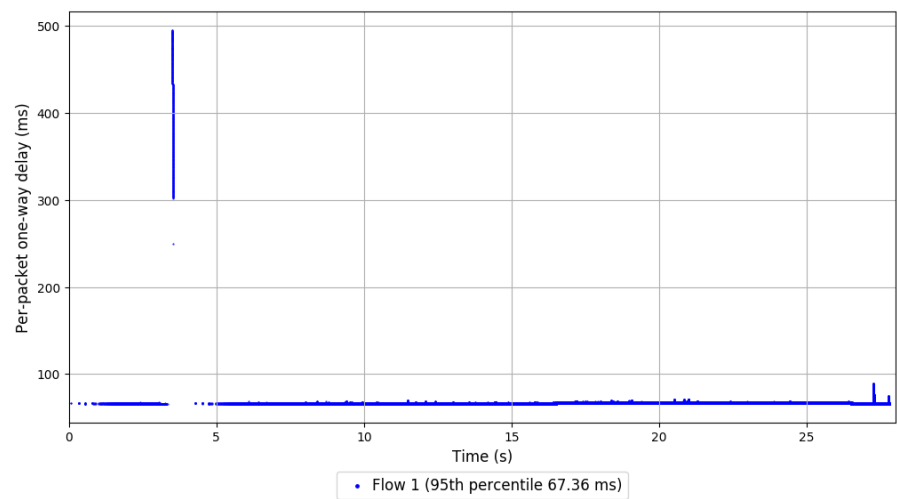
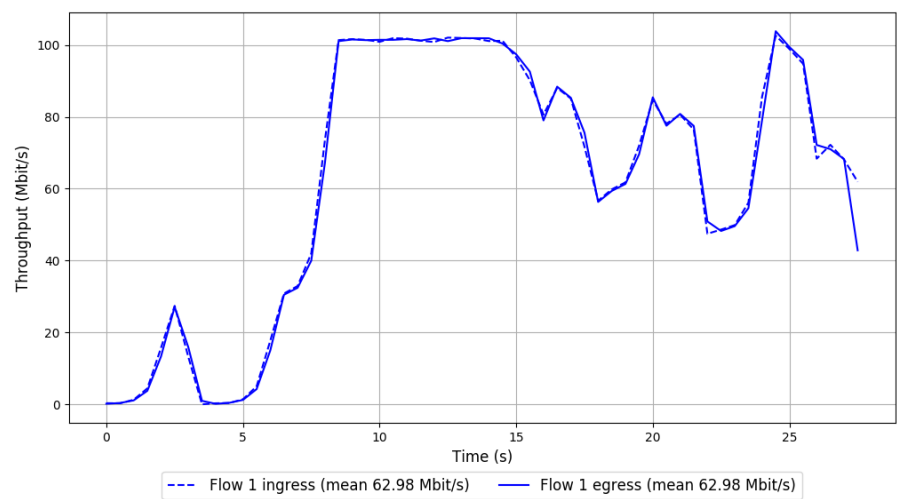
-- Flow 1:

Average throughput: 62.98 Mbit/s

95th percentile per-packet one-way delay: 67.365 ms

Loss rate: 0.81%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2017-11-30 05:36:25

End at: 2017-11-30 05:36:55

Below is generated by plot.py at 2017-11-30 09:25:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.39 Mbit/s

95th percentile per-packet one-way delay: 86.230 ms

Loss rate: 0.95%

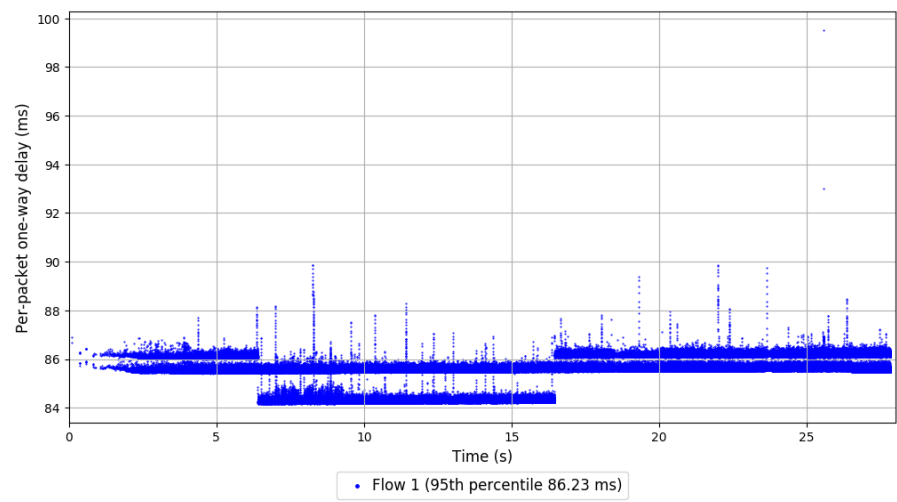
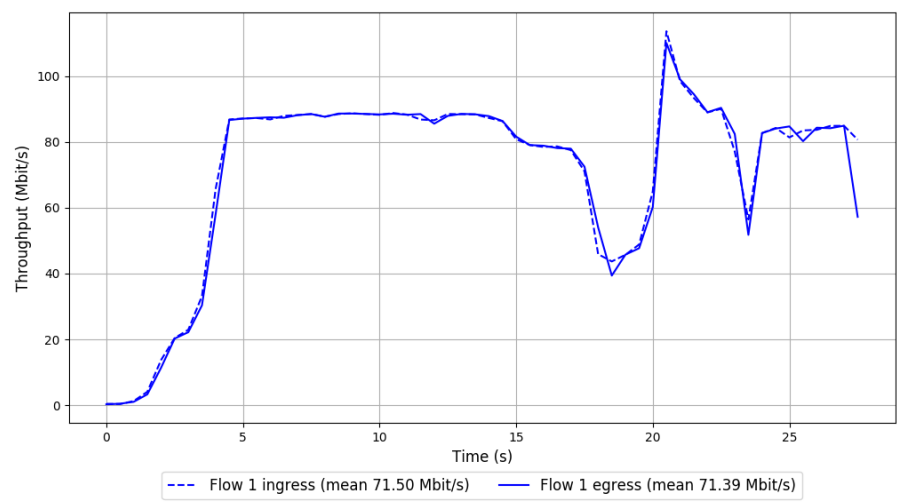
-- Flow 1:

Average throughput: 71.39 Mbit/s

95th percentile per-packet one-way delay: 86.230 ms

Loss rate: 0.95%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2017-11-30 05:47:37

End at: 2017-11-30 05:48:07

Below is generated by plot.py at 2017-11-30 09:25:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.54 Mbit/s

95th percentile per-packet one-way delay: 96.662 ms

Loss rate: 0.93%

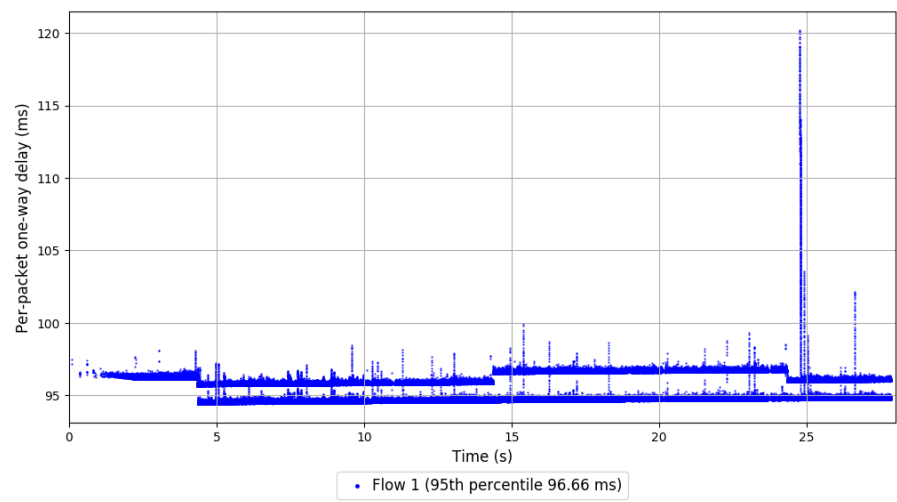
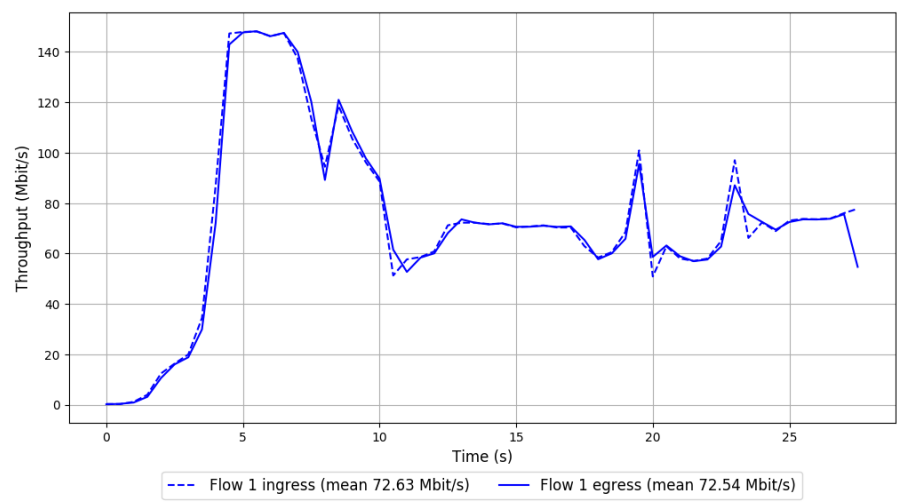
-- Flow 1:

Average throughput: 72.54 Mbit/s

95th percentile per-packet one-way delay: 96.662 ms

Loss rate: 0.93%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2017-11-30 05:58:22

End at: 2017-11-30 05:58:52

Below is generated by plot.py at 2017-11-30 09:25:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 63.84 Mbit/s

95th percentile per-packet one-way delay: 101.185 ms

Loss rate: 1.20%

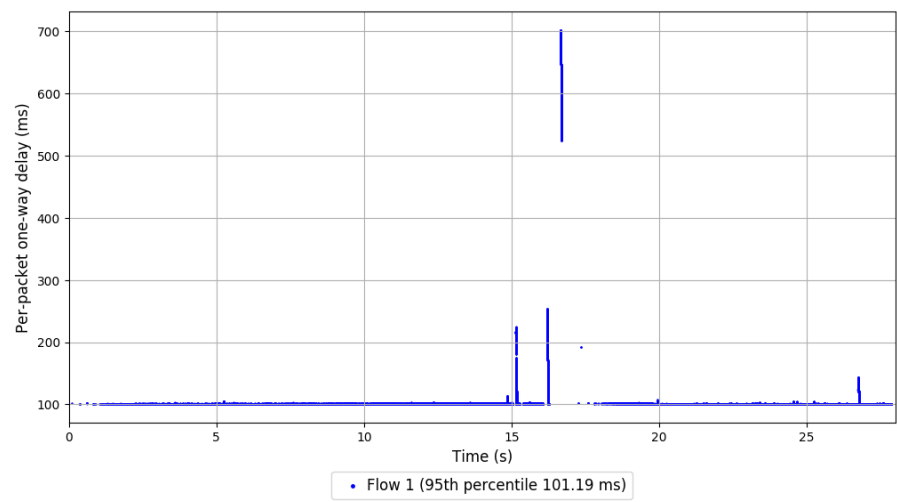
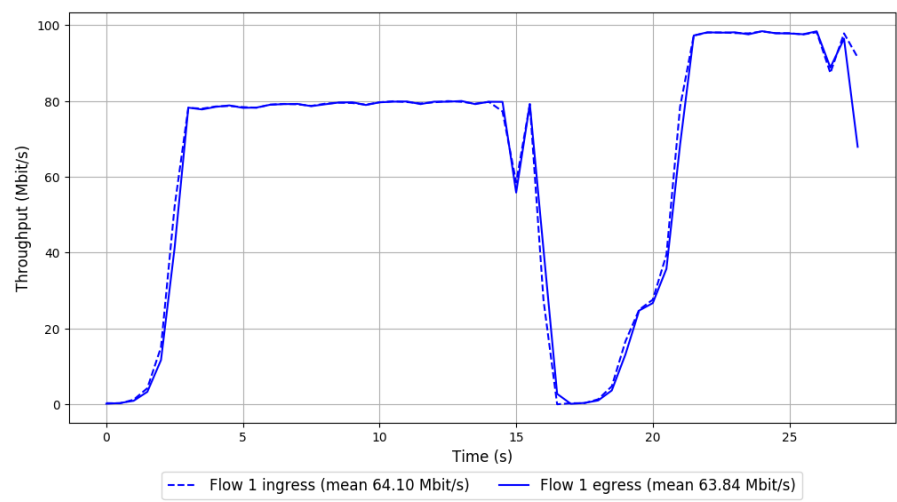
-- Flow 1:

Average throughput: 63.84 Mbit/s

95th percentile per-packet one-way delay: 101.185 ms

Loss rate: 1.20%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2017-11-30 06:09:31

End at: 2017-11-30 06:10:01

Below is generated by plot.py at 2017-11-30 09:25:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 51.89 Mbit/s

95th percentile per-packet one-way delay: 100.801 ms

Loss rate: 0.37%

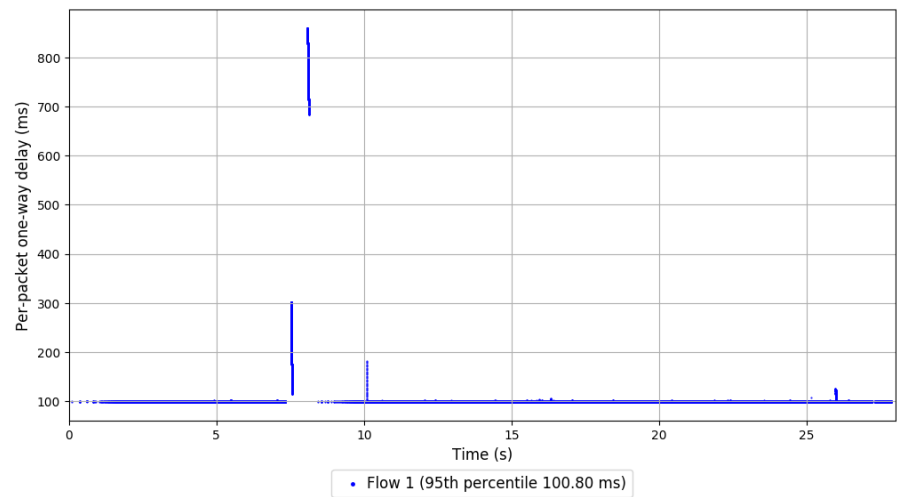
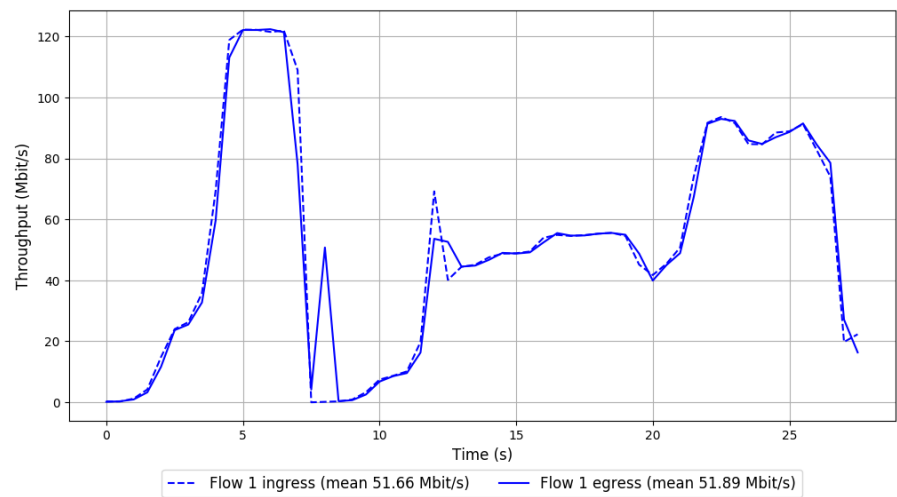
-- Flow 1:

Average throughput: 51.89 Mbit/s

95th percentile per-packet one-way delay: 100.801 ms

Loss rate: 0.37%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2017-11-30 06:20:17

End at: 2017-11-30 06:20:47

Below is generated by plot.py at 2017-11-30 09:27:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 69.13 Mbit/s

95th percentile per-packet one-way delay: 106.483 ms

Loss rate: 0.45%

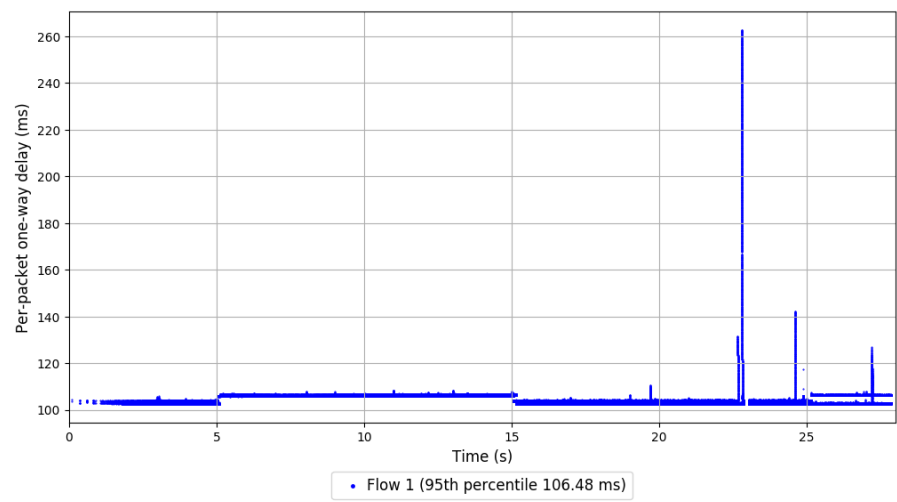
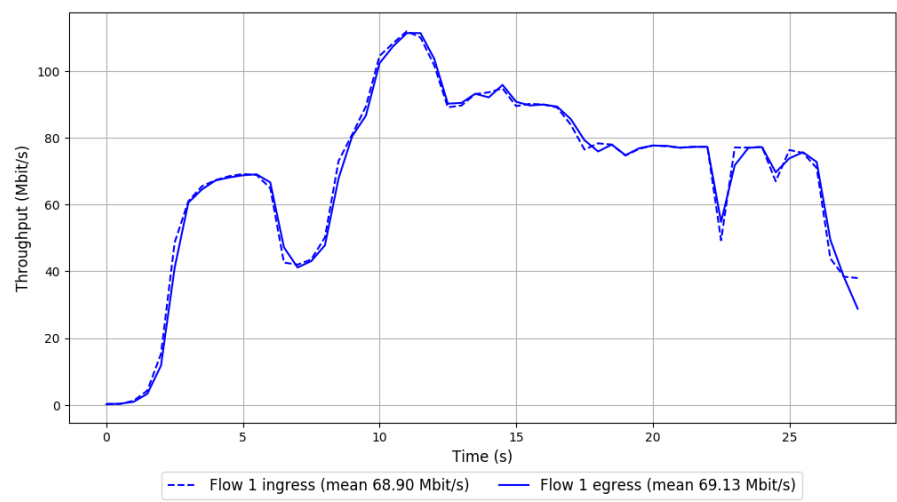
-- Flow 1:

Average throughput: 69.13 Mbit/s

95th percentile per-packet one-way delay: 106.483 ms

Loss rate: 0.45%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2017-11-30 06:31:18

End at: 2017-11-30 06:31:48

Below is generated by plot.py at 2017-11-30 09:27:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.03 Mbit/s

95th percentile per-packet one-way delay: 106.045 ms

Loss rate: 0.82%

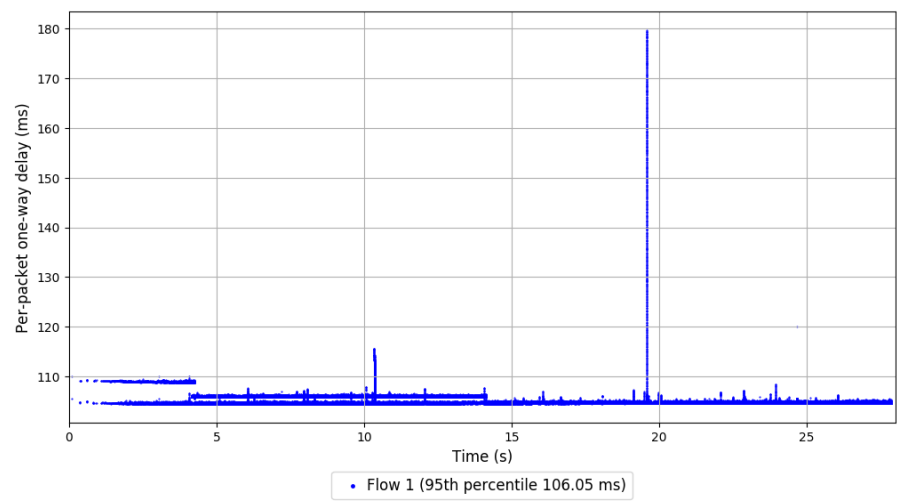
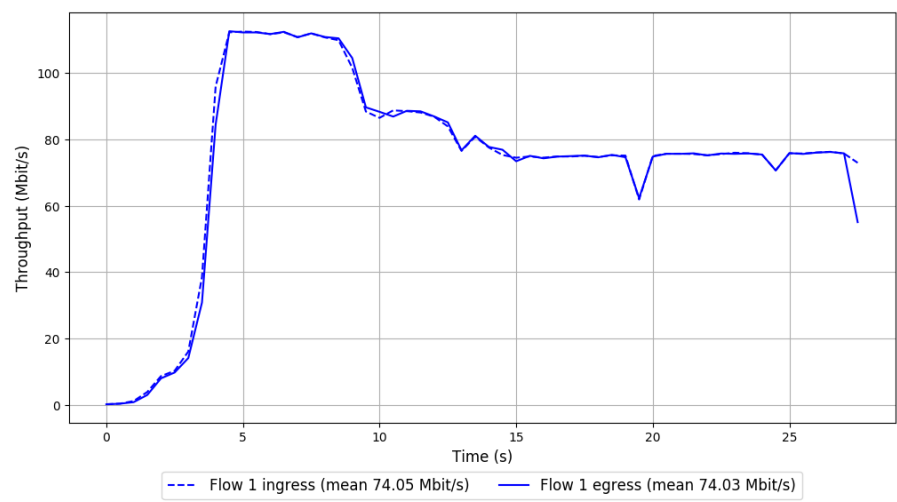
-- Flow 1:

Average throughput: 74.03 Mbit/s

95th percentile per-packet one-way delay: 106.045 ms

Loss rate: 0.82%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2017-11-30 06:42:16

End at: 2017-11-30 06:42:46

Below is generated by plot.py at 2017-11-30 09:27:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 69.28 Mbit/s

95th percentile per-packet one-way delay: 107.706 ms

Loss rate: 0.32%

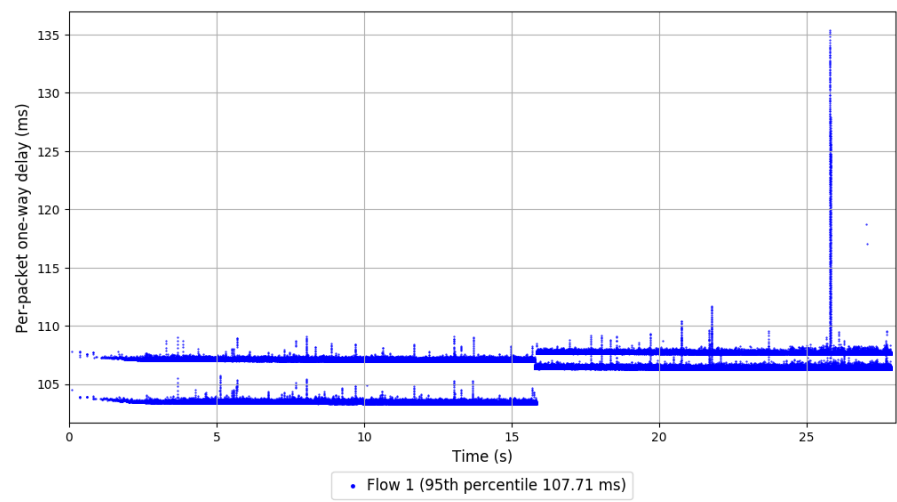
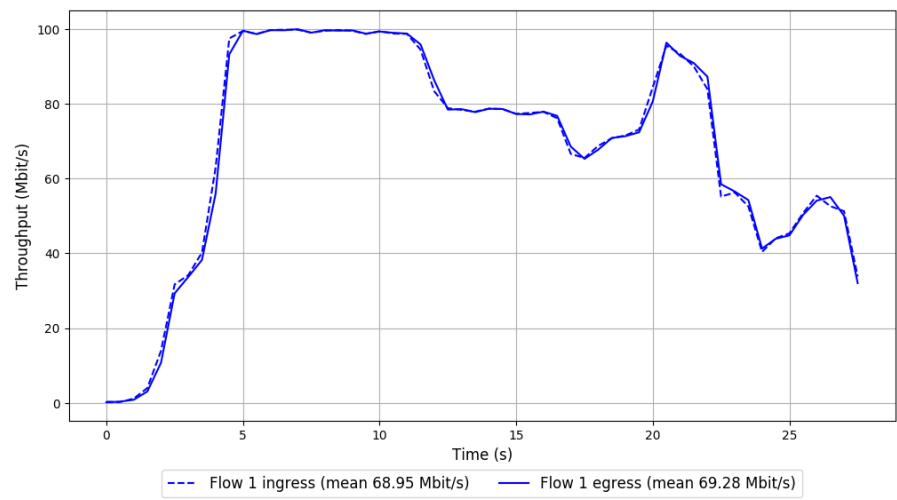
-- Flow 1:

Average throughput: 69.28 Mbit/s

95th percentile per-packet one-way delay: 107.706 ms

Loss rate: 0.32%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2017-11-30 06:53:16

End at: 2017-11-30 06:53:46

Below is generated by plot.py at 2017-11-30 09:27:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 47.09 Mbit/s

95th percentile per-packet one-way delay: 105.935 ms

Loss rate: 0.92%

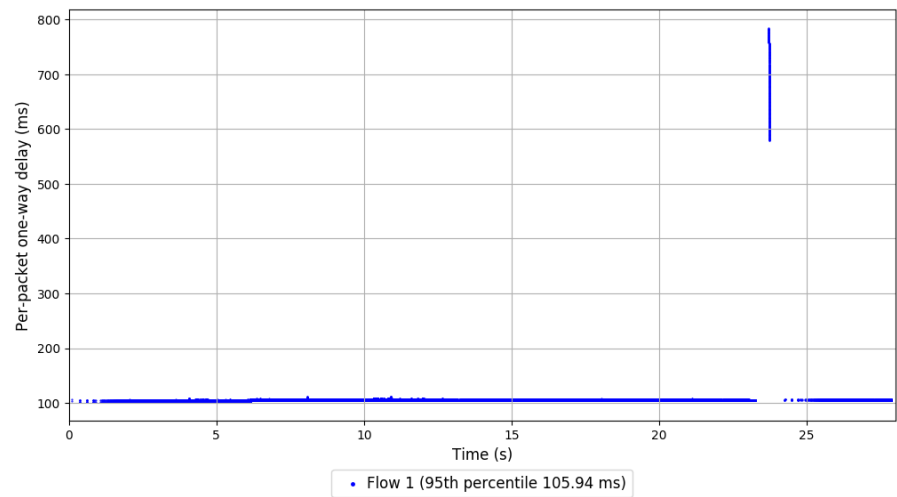
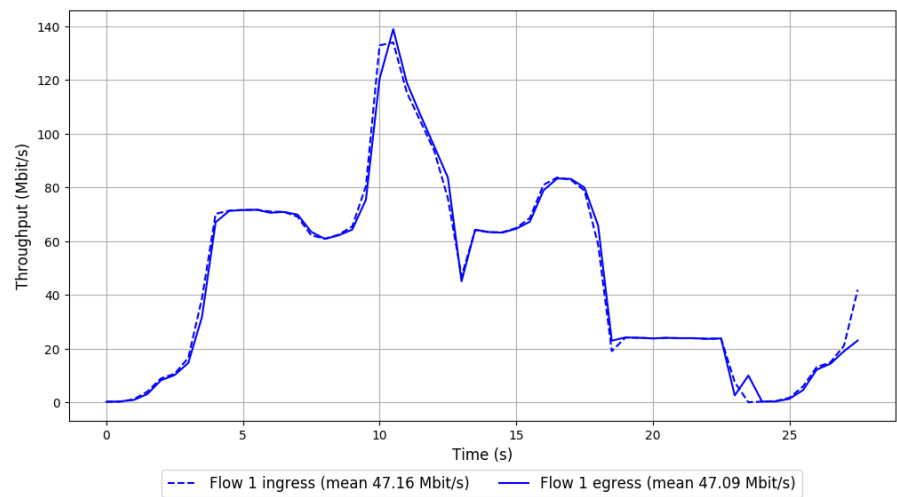
-- Flow 1:

Average throughput: 47.09 Mbit/s

95th percentile per-packet one-way delay: 105.935 ms

Loss rate: 0.92%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2017-11-30 07:04:06

End at: 2017-11-30 07:04:37

Below is generated by plot.py at 2017-11-30 09:27:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.91 Mbit/s

95th percentile per-packet one-way delay: 107.252 ms

Loss rate: 2.04%

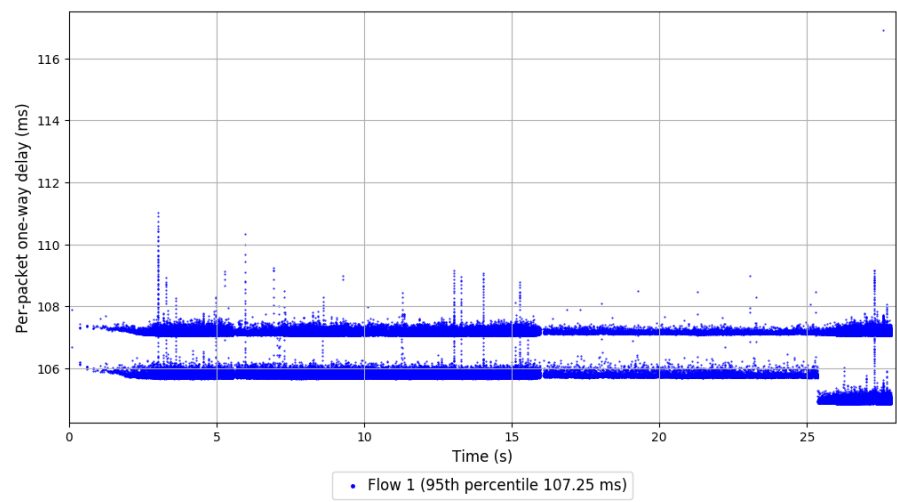
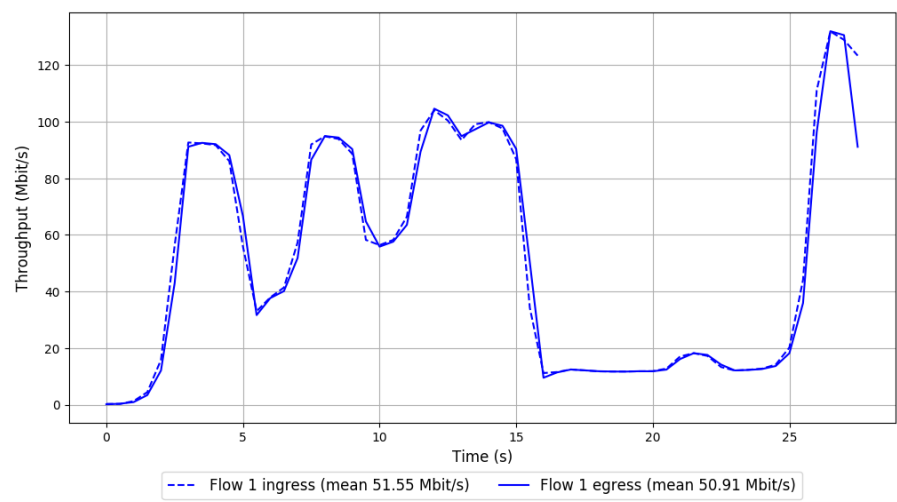
-- Flow 1:

Average throughput: 50.91 Mbit/s

95th percentile per-packet one-way delay: 107.252 ms

Loss rate: 2.04%

Run 10: Report of Copa — Data Link

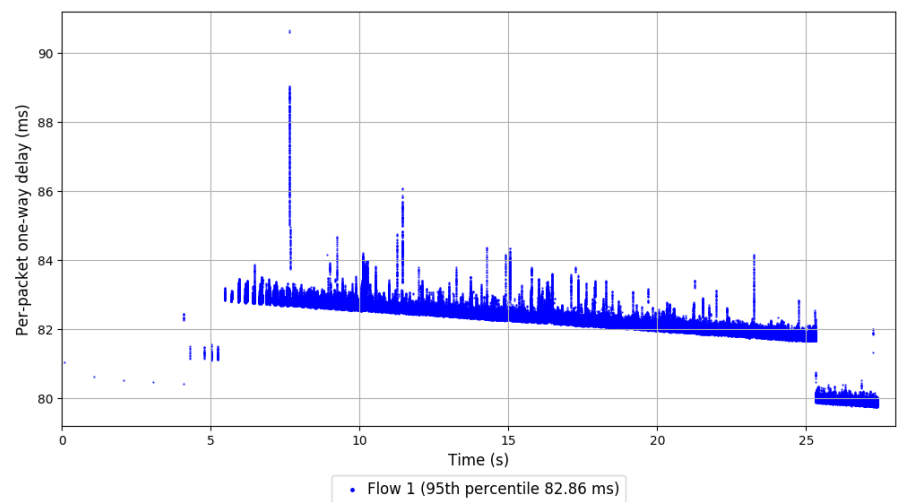
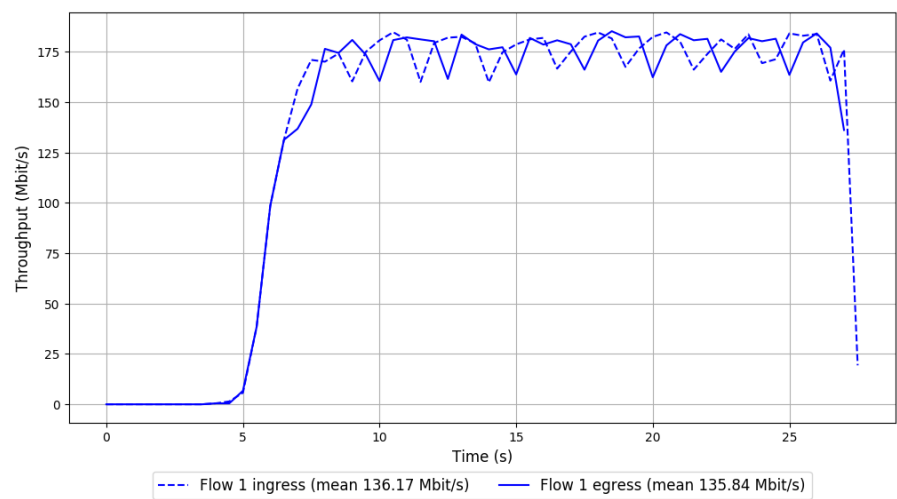


```
Run 1: Statistics of Indigo

Start at: 2017-11-30 05:20:56
End at: 2017-11-30 05:21:26

# Below is generated by plot.py at 2017-11-30 09:28:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 135.84 Mbit/s
95th percentile per-packet one-way delay: 82.863 ms
Loss rate: 1.06%
-- Flow 1:
Average throughput: 135.84 Mbit/s
95th percentile per-packet one-way delay: 82.863 ms
Loss rate: 1.06%
```

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2017-11-30 05:31:33

End at: 2017-11-30 05:32:03

Below is generated by plot.py at 2017-11-30 09:29:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 171.80 Mbit/s

95th percentile per-packet one-way delay: 71.926 ms

Loss rate: 0.81%

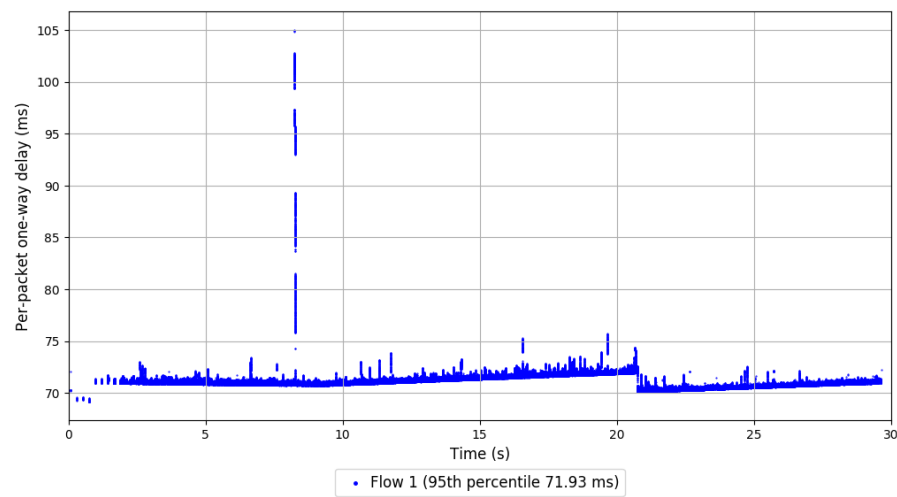
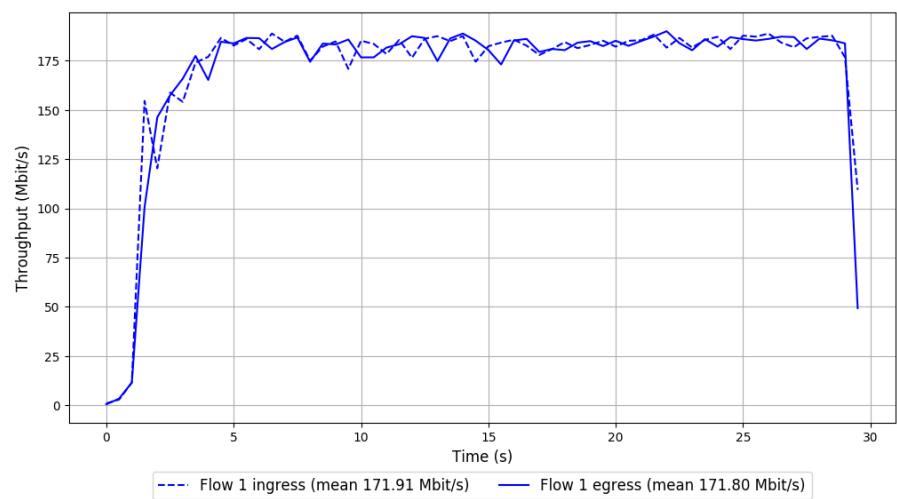
-- Flow 1:

Average throughput: 171.80 Mbit/s

95th percentile per-packet one-way delay: 71.926 ms

Loss rate: 0.81%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2017-11-30 05:42:45

End at: 2017-11-30 05:43:15

Below is generated by plot.py at 2017-11-30 09:29:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 170.45 Mbit/s

95th percentile per-packet one-way delay: 84.914 ms

Loss rate: 0.81%

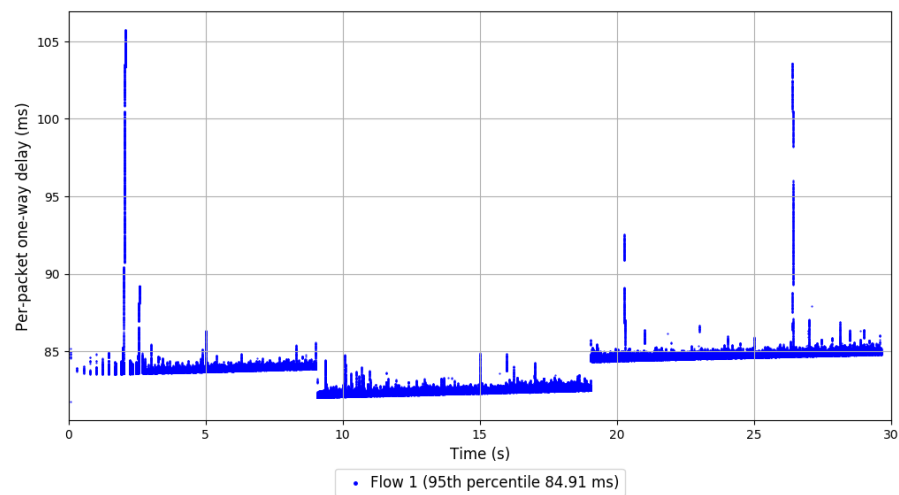
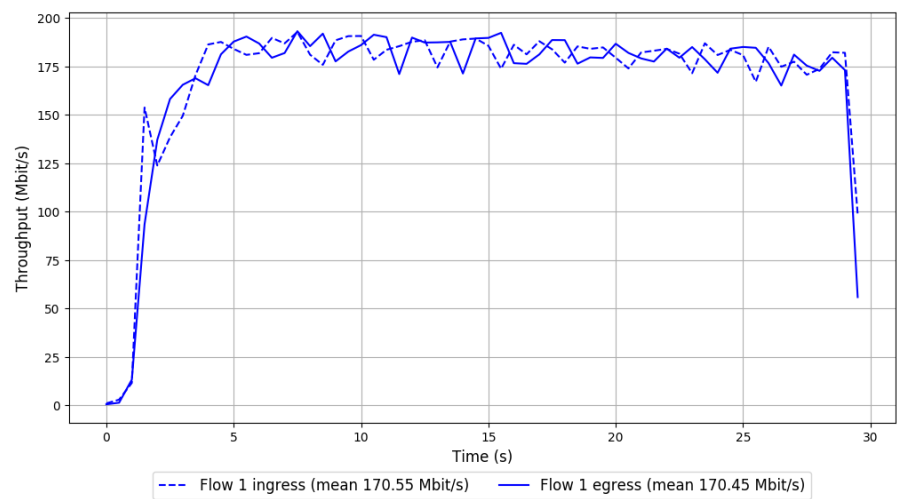
-- Flow 1:

Average throughput: 170.45 Mbit/s

95th percentile per-packet one-way delay: 84.914 ms

Loss rate: 0.81%

Run 3: Report of Indigo — Data Link

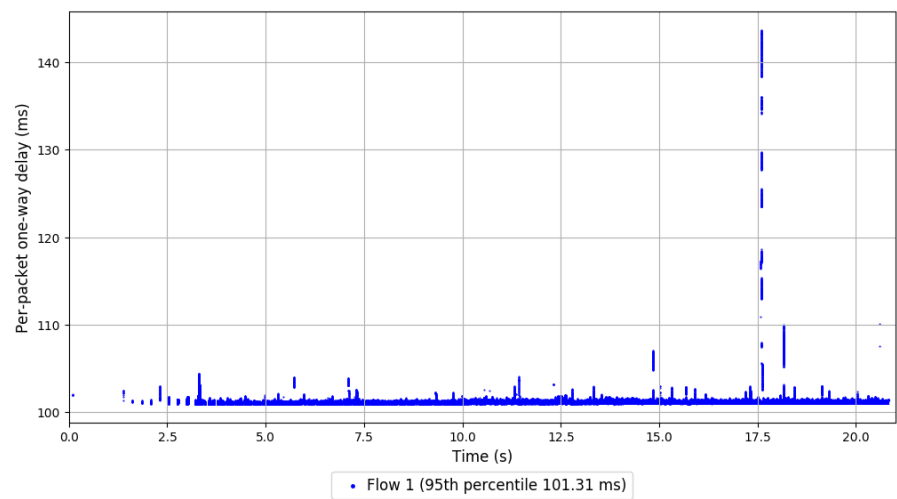
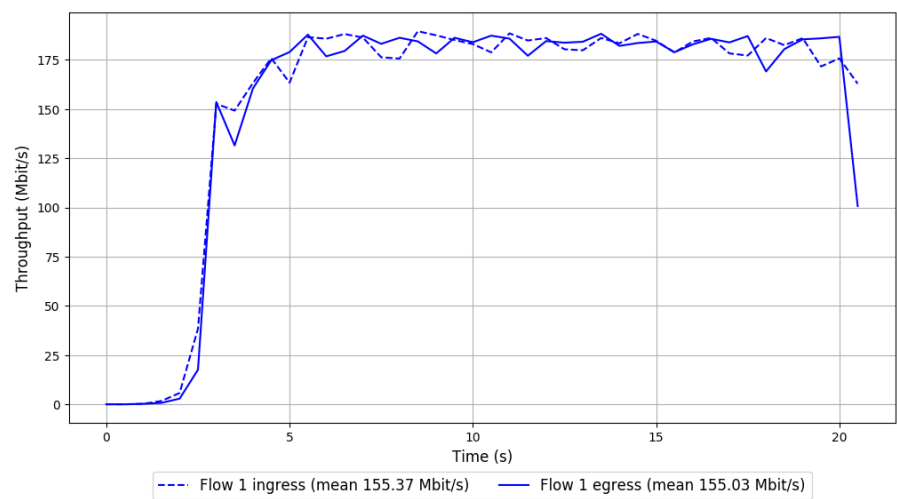


Run 4: Statistics of Indigo

Start at: 2017-11-30 05:53:41

End at: 2017-11-30 05:54:11

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2017-11-30 06:04:46

End at: 2017-11-30 06:05:16

Below is generated by plot.py at 2017-11-30 09:30:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 170.30 Mbit/s

95th percentile per-packet one-way delay: 102.572 ms

Loss rate: 0.83%

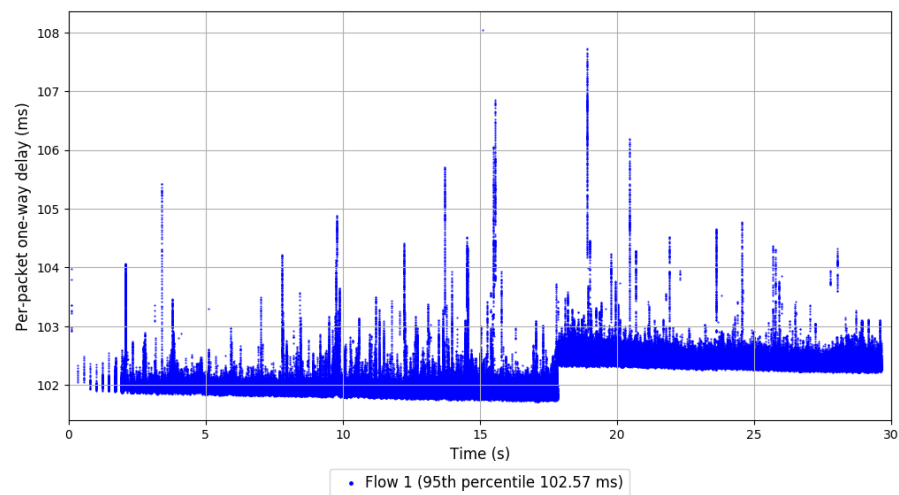
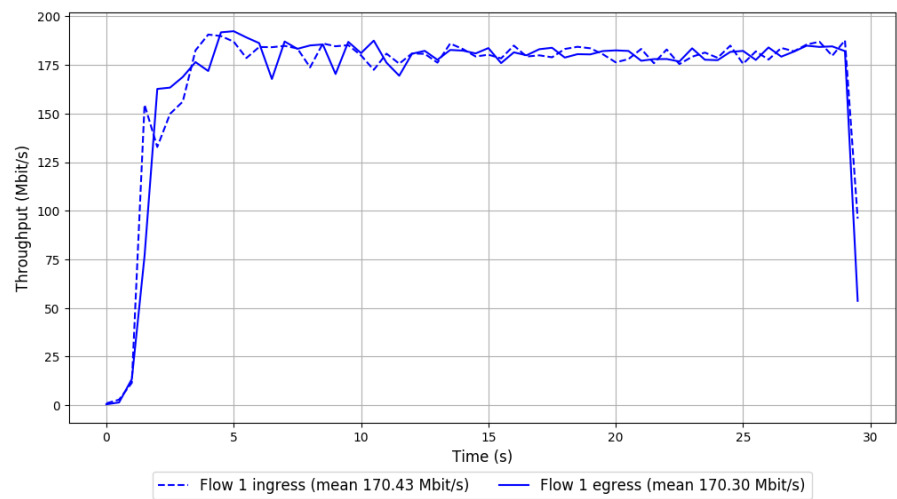
-- Flow 1:

Average throughput: 170.30 Mbit/s

95th percentile per-packet one-way delay: 102.572 ms

Loss rate: 0.83%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2017-11-30 06:15:29

End at: 2017-11-30 06:15:59

Below is generated by plot.py at 2017-11-30 09:30:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 164.13 Mbit/s

95th percentile per-packet one-way delay: 101.692 ms

Loss rate: 0.88%

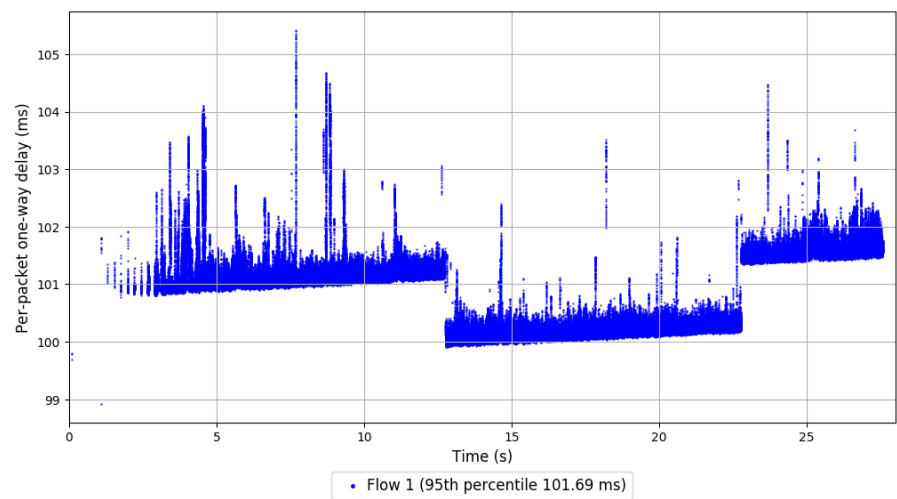
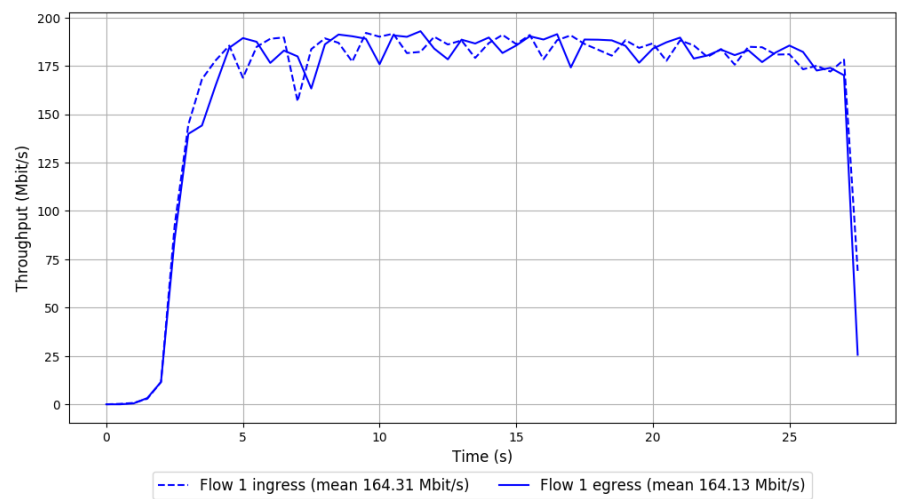
-- Flow 1:

Average throughput: 164.13 Mbit/s

95th percentile per-packet one-way delay: 101.692 ms

Loss rate: 0.88%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2017-11-30 06:26:24

End at: 2017-11-30 06:26:54

Below is generated by plot.py at 2017-11-30 09:30:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 167.01 Mbit/s

95th percentile per-packet one-way delay: 106.800 ms

Loss rate: 0.79%

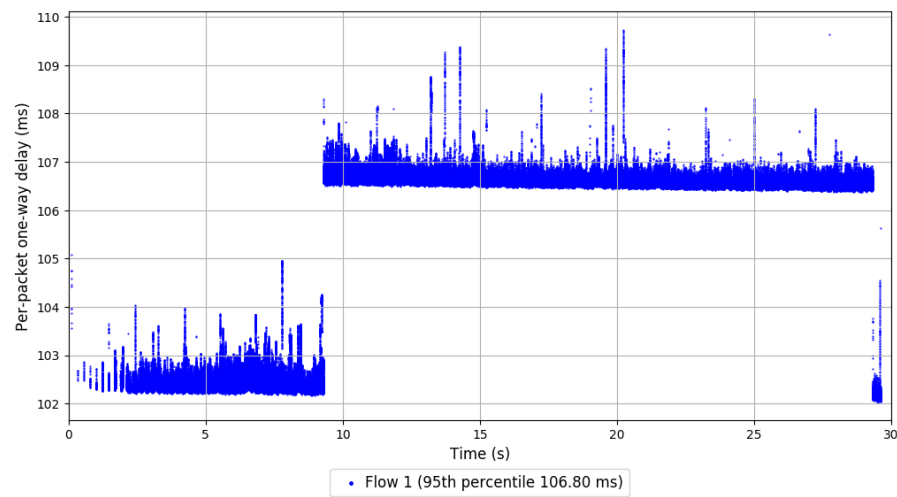
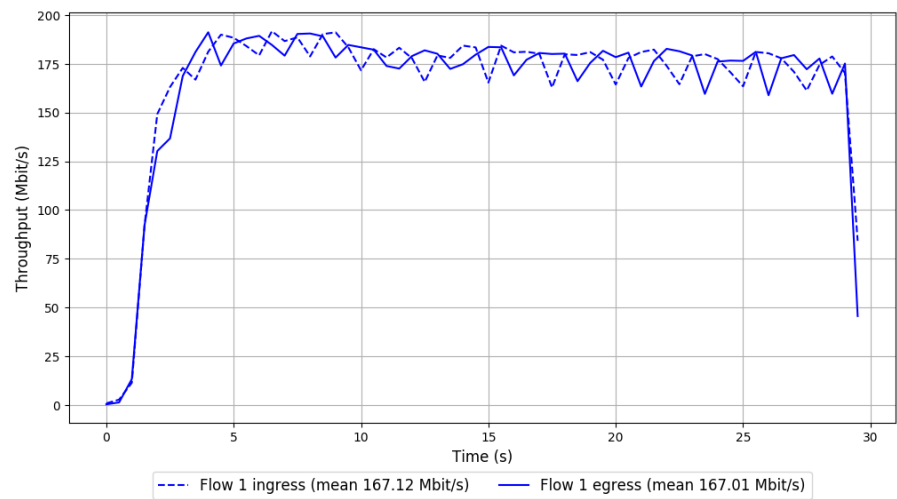
-- Flow 1:

Average throughput: 167.01 Mbit/s

95th percentile per-packet one-way delay: 106.800 ms

Loss rate: 0.79%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2017-11-30 06:37:25

End at: 2017-11-30 06:37:55

Below is generated by plot.py at 2017-11-30 09:30:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 154.07 Mbit/s

95th percentile per-packet one-way delay: 109.431 ms

Loss rate: 1.02%

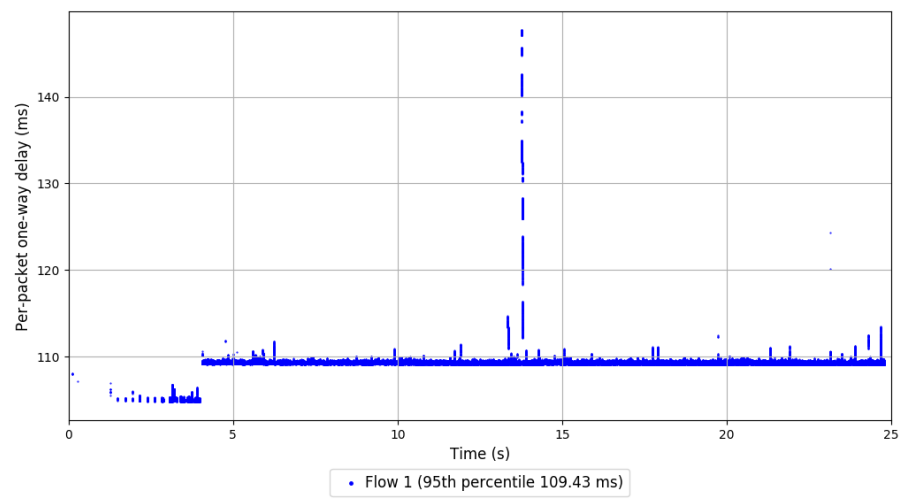
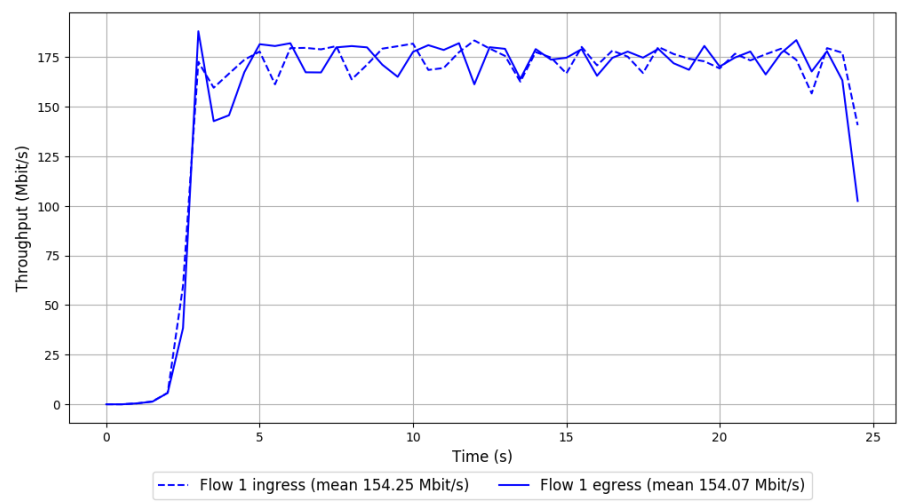
-- Flow 1:

Average throughput: 154.07 Mbit/s

95th percentile per-packet one-way delay: 109.431 ms

Loss rate: 1.02%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2017-11-30 06:48:22

End at: 2017-11-30 06:48:52

Below is generated by plot.py at 2017-11-30 09:31:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 167.87 Mbit/s

95th percentile per-packet one-way delay: 106.207 ms

Loss rate: 0.77%

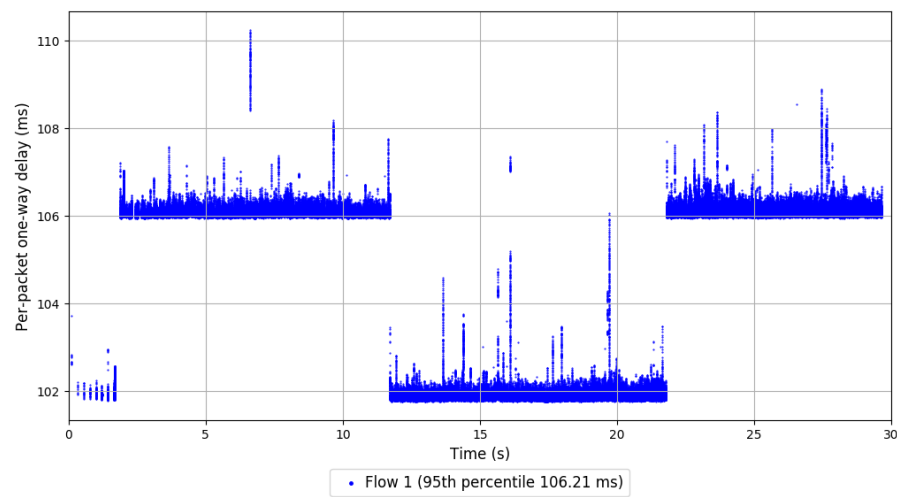
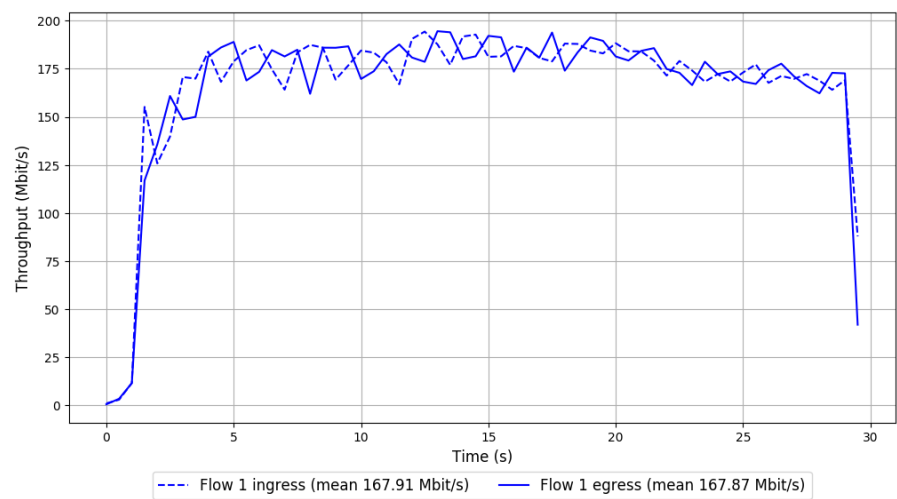
-- Flow 1:

Average throughput: 167.87 Mbit/s

95th percentile per-packet one-way delay: 106.207 ms

Loss rate: 0.77%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2017-11-30 06:59:19

End at: 2017-11-30 06:59:49

Below is generated by plot.py at 2017-11-30 09:32:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 169.72 Mbit/s

95th percentile per-packet one-way delay: 107.090 ms

Loss rate: 0.79%

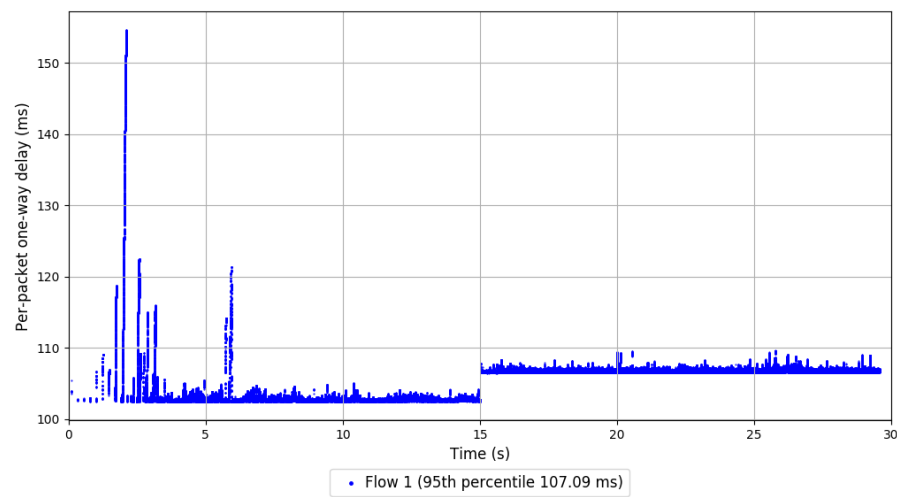
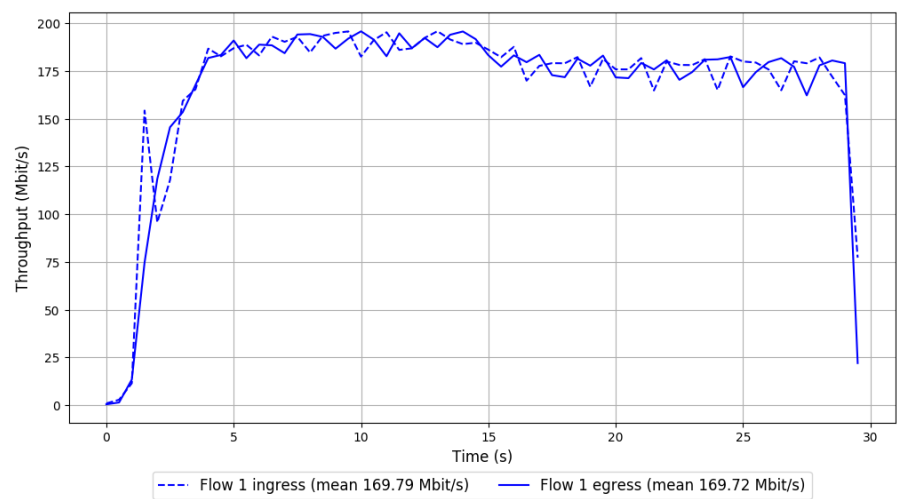
-- Flow 1:

Average throughput: 169.72 Mbit/s

95th percentile per-packet one-way delay: 107.090 ms

Loss rate: 0.79%

Run 10: Report of Indigo — Data Link

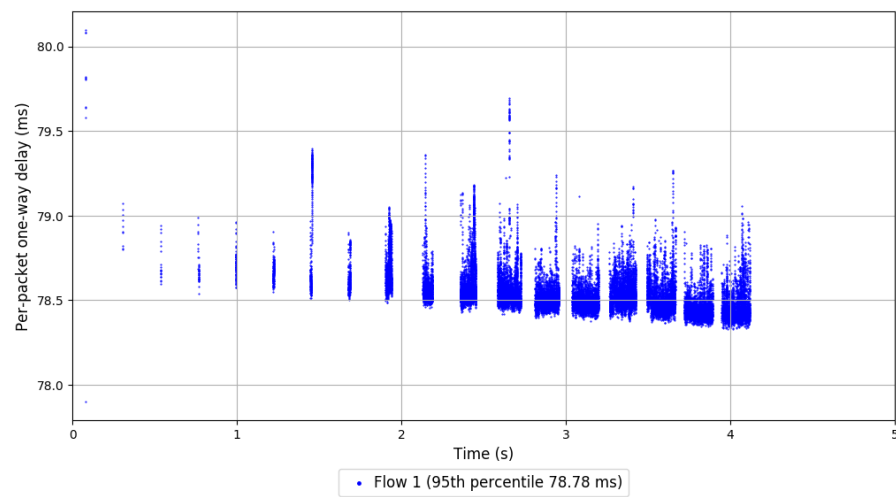
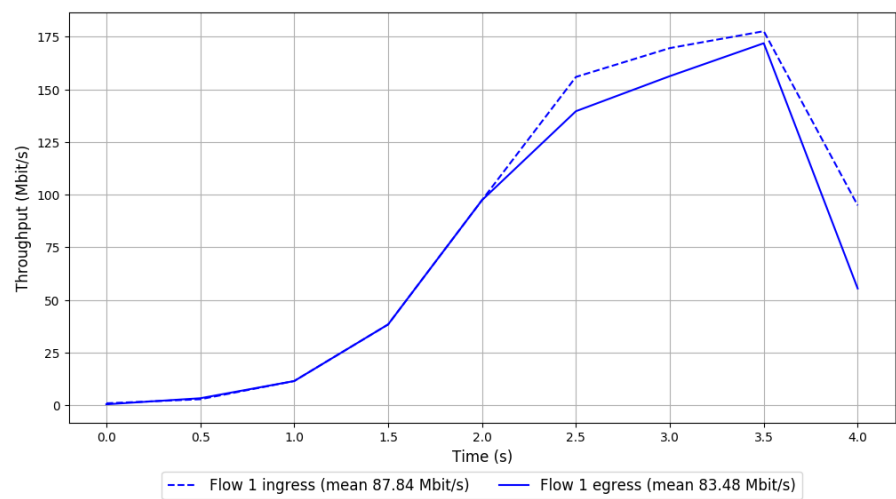


Run 1: Statistics of Indigo-calib

Start at: 2017-11-30 05:21:47

End at: 2017-11-30 05:22:17

Run 1: Report of Indigo-calib — Data Link

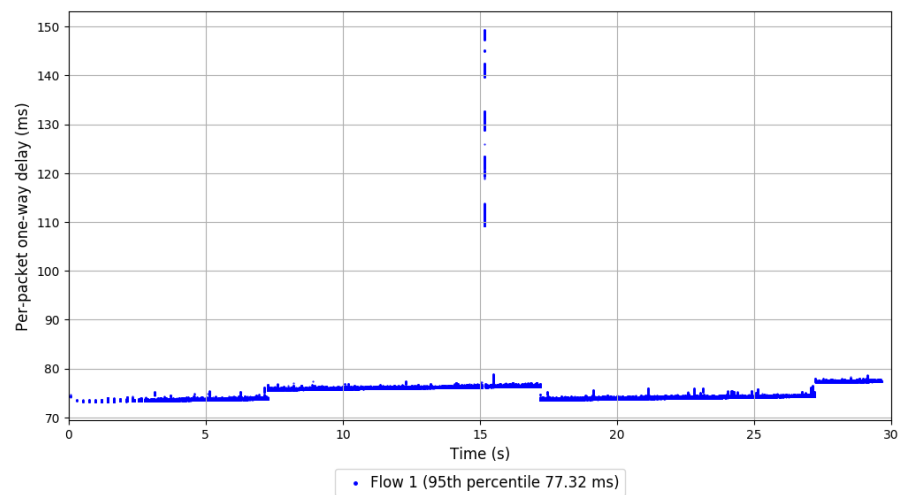
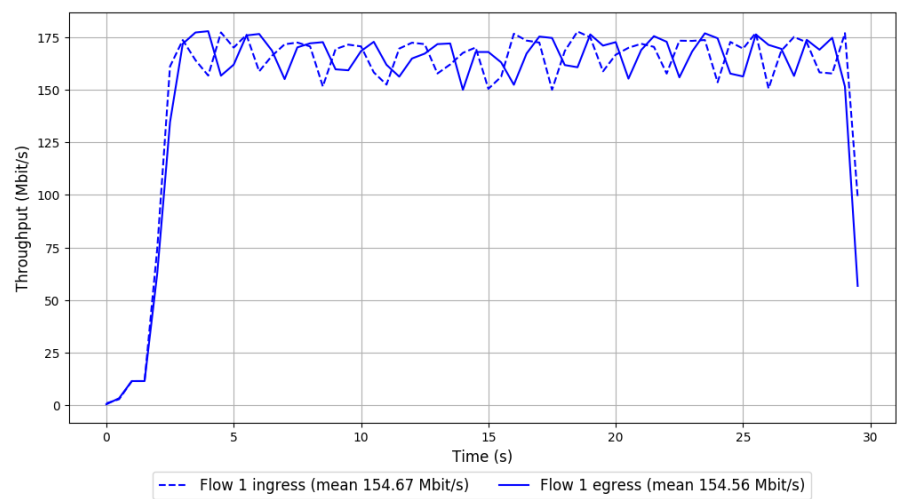


```
Run 2: Statistics of Indigo-calib

Start at: 2017-11-30 05:32:26
End at: 2017-11-30 05:32:56

# Below is generated by plot.py at 2017-11-30 09:32:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 154.56 Mbit/s
95th percentile per-packet one-way delay: 77.319 ms
Loss rate: 0.82%
-- Flow 1:
Average throughput: 154.56 Mbit/s
95th percentile per-packet one-way delay: 77.319 ms
Loss rate: 0.82%
```

Run 2: Report of Indigo-calib — Data Link



Run 3: Statistics of Indigo-calib

Start at: 2017-11-30 05:43:39

End at: 2017-11-30 05:44:09

Below is generated by plot.py at 2017-11-30 09:32:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 154.44 Mbit/s

95th percentile per-packet one-way delay: 87.022 ms

Loss rate: 0.83%

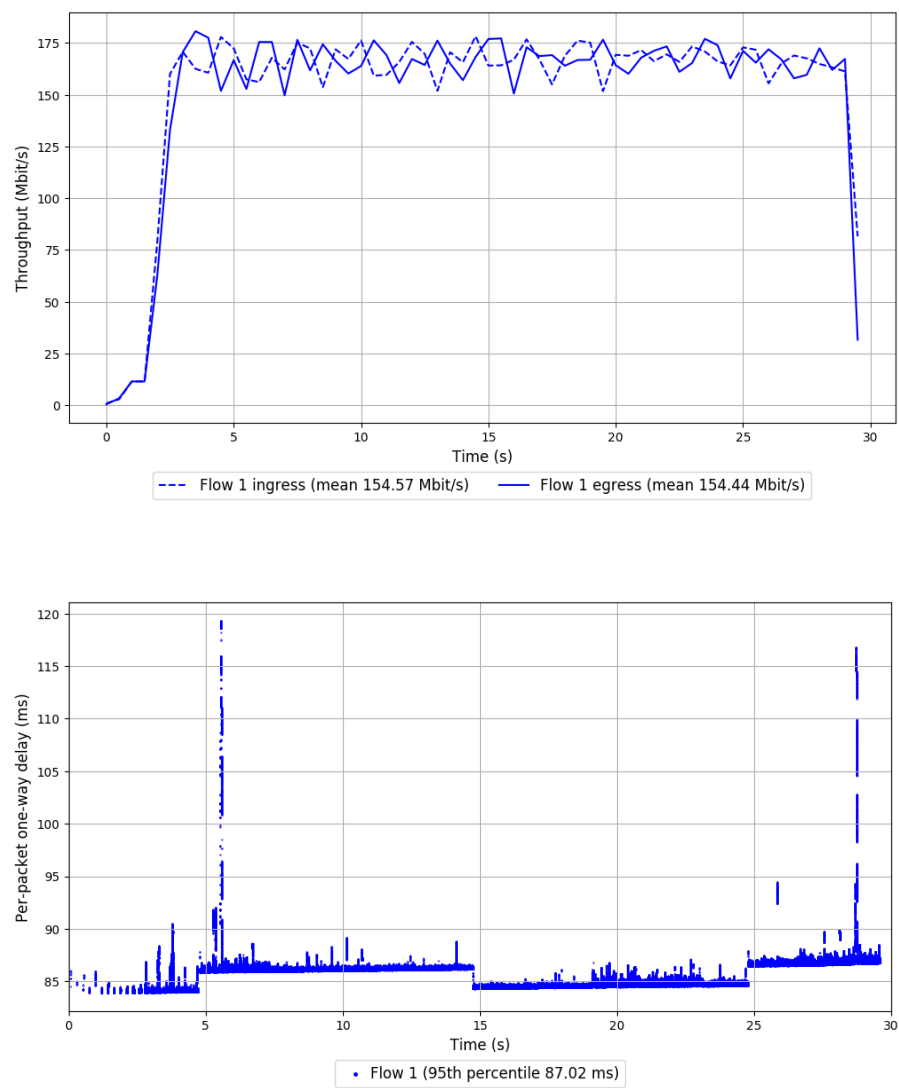
-- Flow 1:

Average throughput: 154.44 Mbit/s

95th percentile per-packet one-way delay: 87.022 ms

Loss rate: 0.83%

Run 3: Report of Indigo-calib — Data Link



Run 4: Statistics of Indigo-calib

Start at: 2017-11-30 05:54:31

End at: 2017-11-30 05:55:01

Below is generated by plot.py at 2017-11-30 09:33:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 154.09 Mbit/s

95th percentile per-packet one-way delay: 101.372 ms

Loss rate: 0.82%

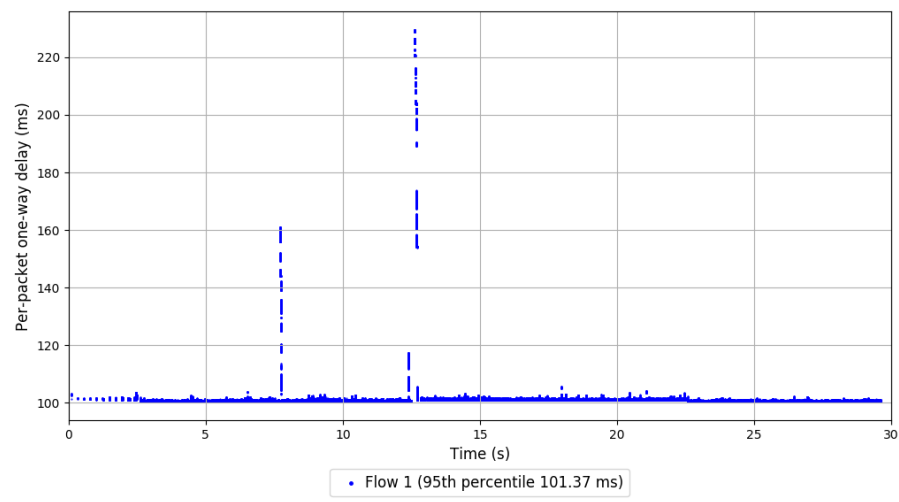
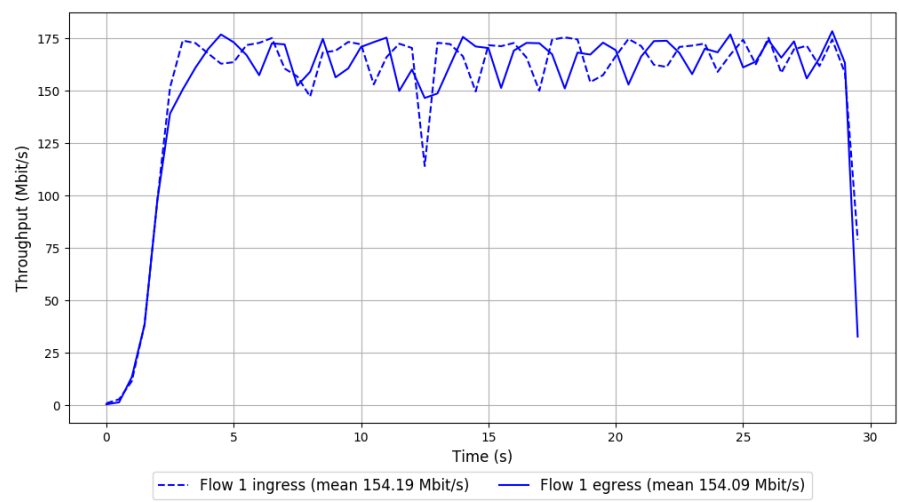
-- Flow 1:

Average throughput: 154.09 Mbit/s

95th percentile per-packet one-way delay: 101.372 ms

Loss rate: 0.82%

Run 4: Report of Indigo-calib — Data Link

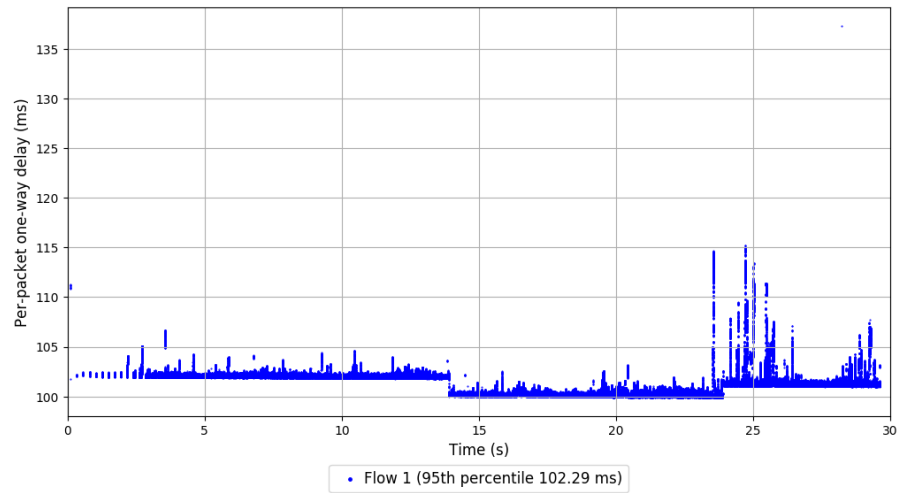
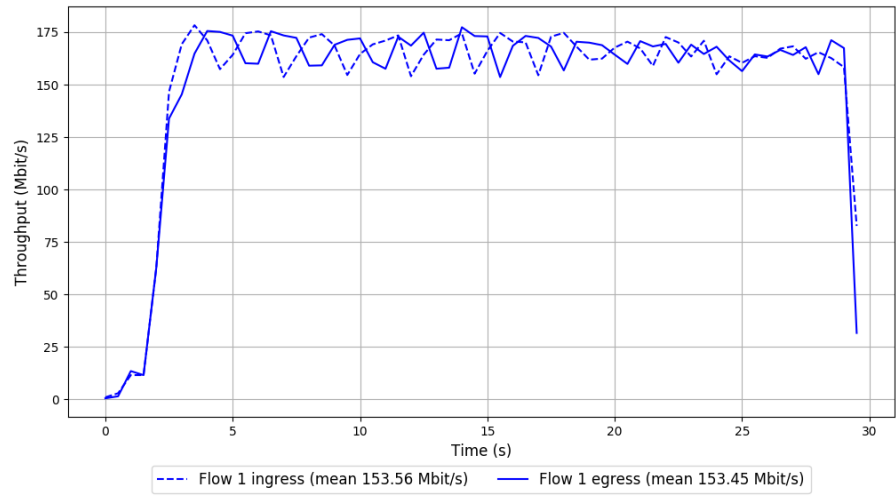


```
Run 5: Statistics of Indigo-calib

Start at: 2017-11-30 06:05:40
End at: 2017-11-30 06:06:10

# Below is generated by plot.py at 2017-11-30 09:33:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 153.45 Mbit/s
95th percentile per-packet one-way delay: 102.287 ms
Loss rate: 0.83%
-- Flow 1:
Average throughput: 153.45 Mbit/s
95th percentile per-packet one-way delay: 102.287 ms
Loss rate: 0.83%
```

Run 5: Report of Indigo-calib — Data Link



Run 6: Statistics of Indigo-calib

Start at: 2017-11-30 06:16:21

End at: 2017-11-30 06:16:51

Below is generated by plot.py at 2017-11-30 09:33:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 154.23 Mbit/s

95th percentile per-packet one-way delay: 103.190 ms

Loss rate: 0.83%

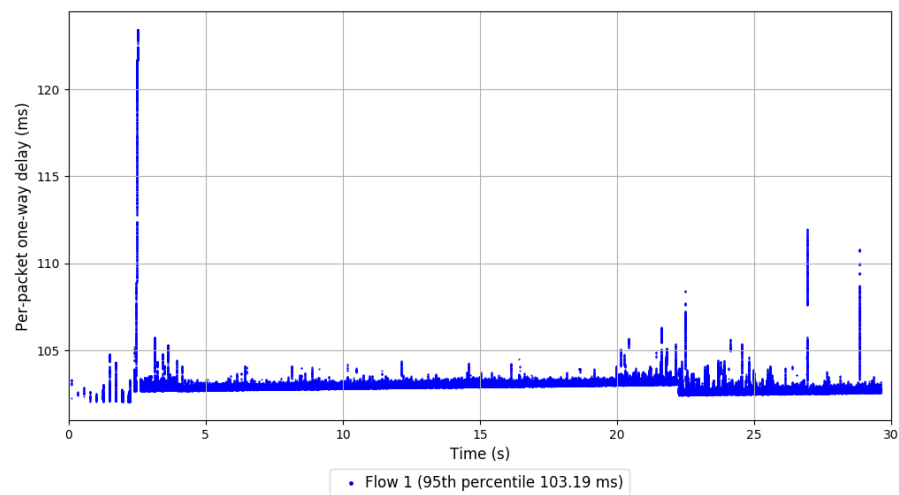
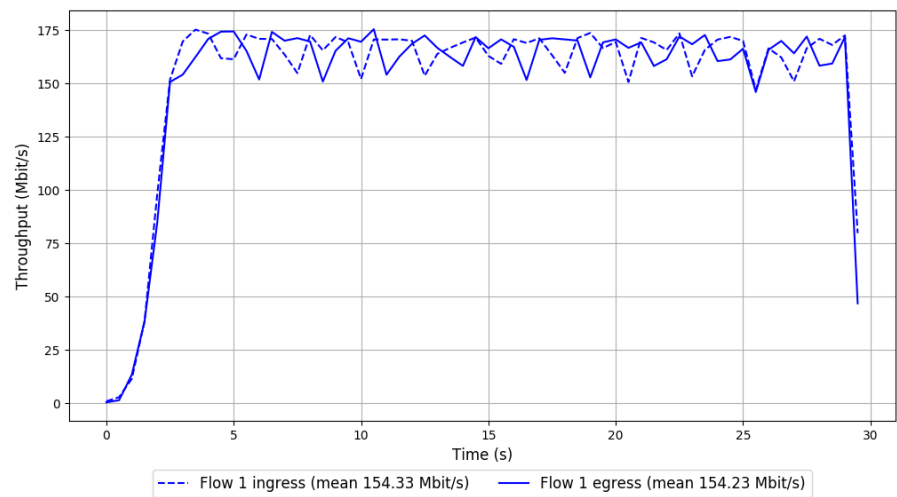
-- Flow 1:

Average throughput: 154.23 Mbit/s

95th percentile per-packet one-way delay: 103.190 ms

Loss rate: 0.83%

Run 6: Report of Indigo-calib — Data Link



Run 7: Statistics of Indigo-calib

Start at: 2017-11-30 06:27:18

End at: 2017-11-30 06:27:48

Below is generated by plot.py at 2017-11-30 09:33:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 154.03 Mbit/s

95th percentile per-packet one-way delay: 106.685 ms

Loss rate: 0.82%

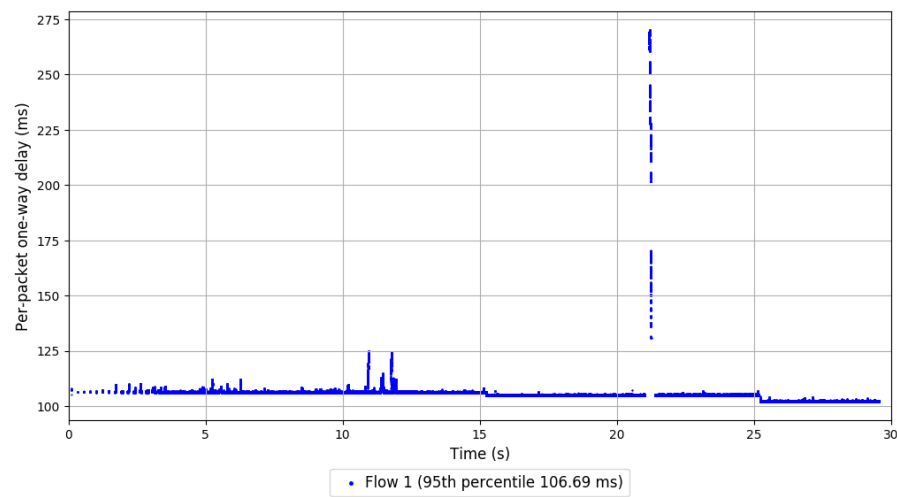
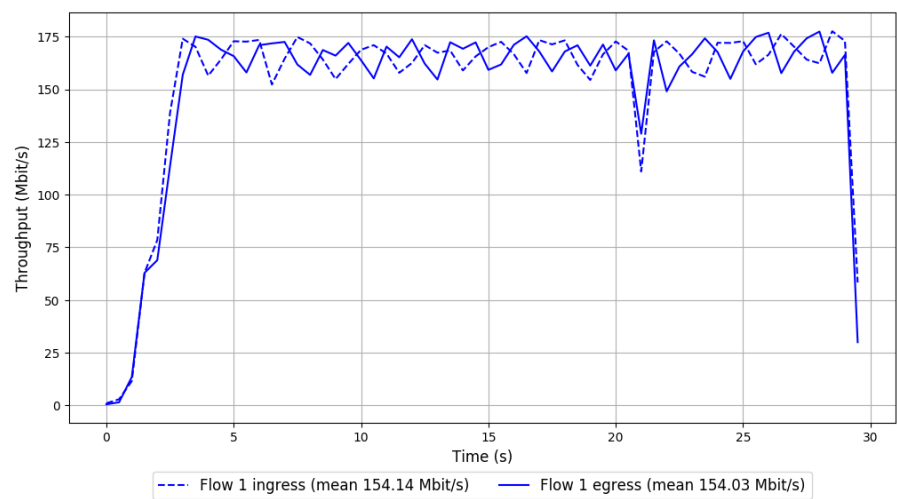
-- Flow 1:

Average throughput: 154.03 Mbit/s

95th percentile per-packet one-way delay: 106.685 ms

Loss rate: 0.82%

Run 7: Report of Indigo-calib — Data Link



Run 8: Statistics of Indigo-calib

Start at: 2017-11-30 06:38:16

End at: 2017-11-30 06:38:46

Below is generated by plot.py at 2017-11-30 09:33:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 154.42 Mbit/s

95th percentile per-packet one-way delay: 109.268 ms

Loss rate: 0.83%

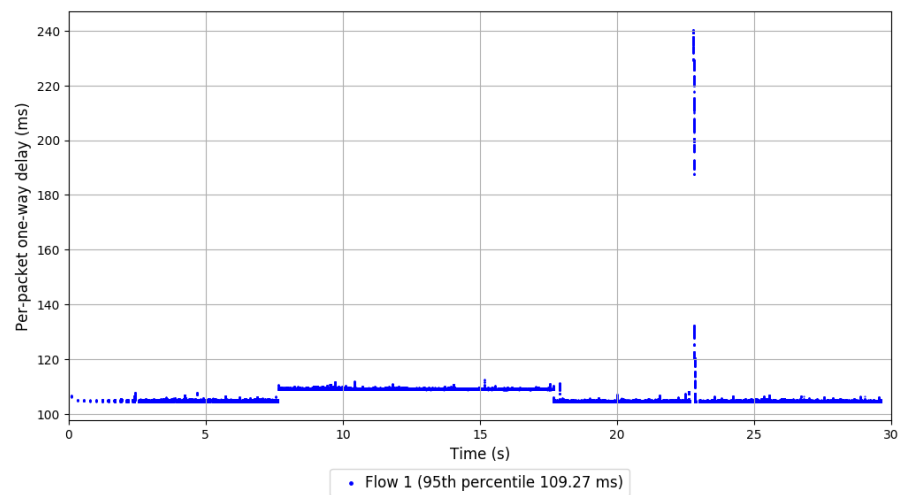
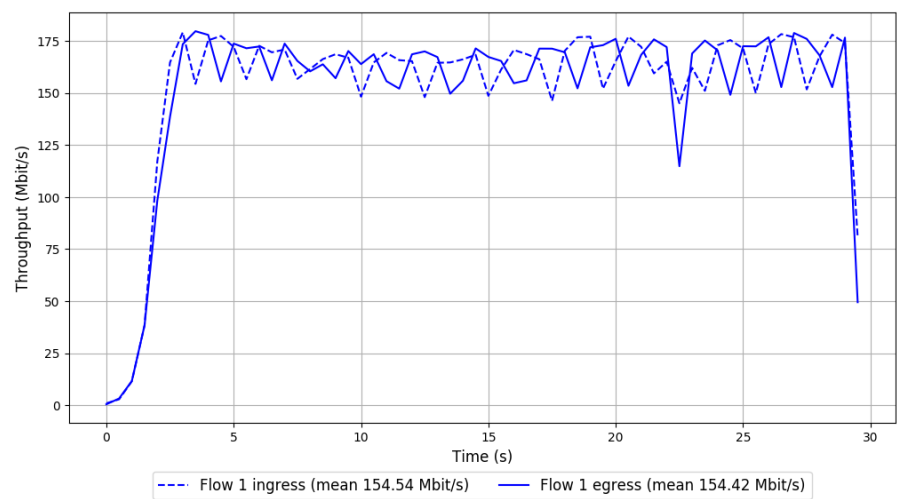
-- Flow 1:

Average throughput: 154.42 Mbit/s

95th percentile per-packet one-way delay: 109.268 ms

Loss rate: 0.83%

Run 8: Report of Indigo-calib — Data Link



Run 9: Statistics of Indigo-calib

Start at: 2017-11-30 06:49:16

End at: 2017-11-30 06:49:46

Below is generated by plot.py at 2017-11-30 09:33:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 152.45 Mbit/s

95th percentile per-packet one-way delay: 106.159 ms

Loss rate: 0.84%

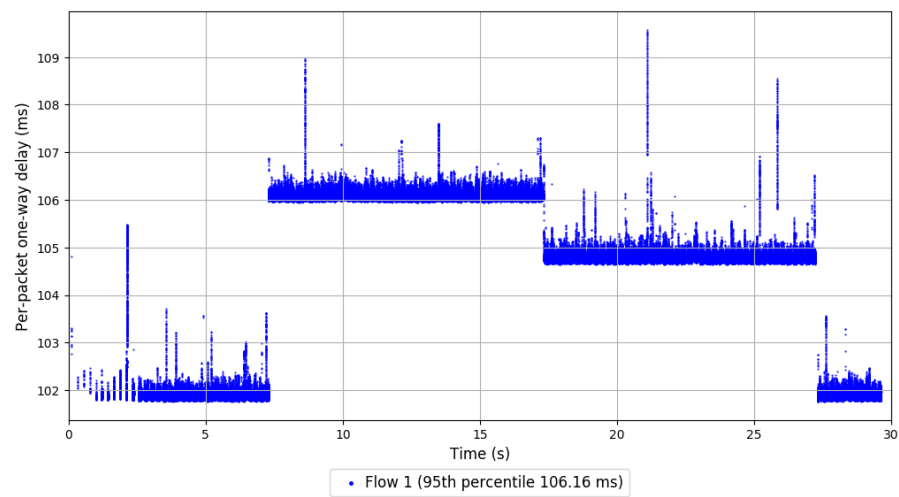
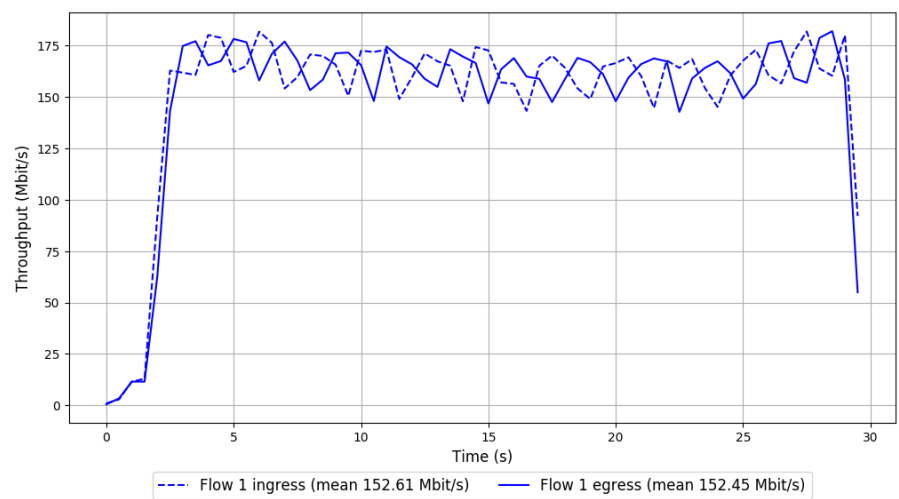
-- Flow 1:

Average throughput: 152.45 Mbit/s

95th percentile per-packet one-way delay: 106.159 ms

Loss rate: 0.84%

Run 9: Report of Indigo-calib — Data Link



Run 10: Statistics of Indigo-calib

Start at: 2017-11-30 07:00:13

End at: 2017-11-30 07:00:43

Below is generated by plot.py at 2017-11-30 09:33:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 152.96 Mbit/s

95th percentile per-packet one-way delay: 107.205 ms

Loss rate: 0.81%

-- Flow 1:

Average throughput: 152.96 Mbit/s

95th percentile per-packet one-way delay: 107.205 ms

Loss rate: 0.81%

Run 10: Report of Indigo-calib — Data Link

