

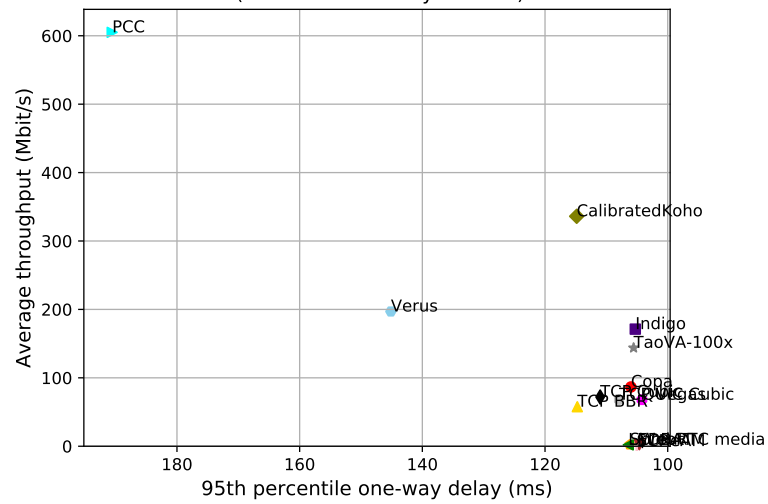
Pantheon Report

Generated at 2017-10-10 22:44:11 (UTC).
Data path: GCE London Ethernet (*local*) → GCE Tokyo Ethernet (*remote*).
Repeated the test of 14 congestion control schemes 10 times.
Each test lasted for 30 seconds running 1 flow.
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).
Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo_fast**).

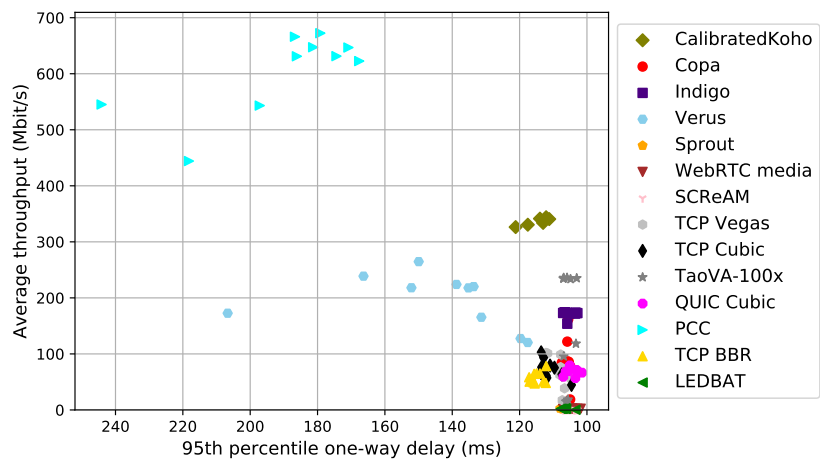
Git summary:

```
branch: indigos @ 45998d6404be7c5106956530acb9cfc43bd06e7d
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
M datagrump/sender.cc
third_party/genericCC @ f7ca42f251bf49b432bb71de6d13fa903515c366
third_party/indigo @ b19f3730105f9aa95452552af924e3719b03cc55
third_party/indigo-cellular @ aee99e8eb842cb053f8c9a80e28cd256a930bbc2
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/indigo-no-cwnd @ 3e58442c04028a11d7b02456e137604633ba2d6c
third_party/indigo-no-delivery-rate @ 57caa40858b964906edff4876d5a7e5bfff666c5
third_party/indigo-no-queuing-delay @ 03455460fd1a8ffbdad86fab936fdca204b80db
third_party/indigo-no-send-rate @ b39dfa6b2c5f19cb7cd89626cb4f5bb81f9fecda
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ baf443516dea3eeddeccaf9b916cc313273ca4f4
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eaaeb30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/webrtc @ a488197ddd041ace68a42849b2540ad834825f42
```

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



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



scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	10	57.77	114.74	0.01
TCP Cubic	10	71.96	111.01	0.03
LEDBAT	8	1.94	106.44	0.06
PCC	10	605.00	190.56	2.43
QUIC Cubic	9	67.99	104.20	0.00
SCReAM	10	0.22	105.06	0.01
WebRTC media	10	2.15	104.62	0.00
Sprout	9	2.17	106.19	0.01
TaoVA-100x	10	143.82	105.56	0.00
TCP Vegas	10	68.02	107.94	0.01
Verus	10	196.94	145.13	0.35
Copa	10	86.65	106.00	0.00
CalibratedKoho	6	336.12	114.84	0.01
Indigo	10	171.17	105.29	0.00

Run 1: Statistics of TCP BBR

Start at: 2017-10-10 19:38:16

End at: 2017-10-10 19:38:46

Below is generated by plot.py at 2017-10-10 22:06:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 49.46 Mbit/s

95th percentile per-packet one-way delay: 115.899 ms

Loss rate: 0.00%

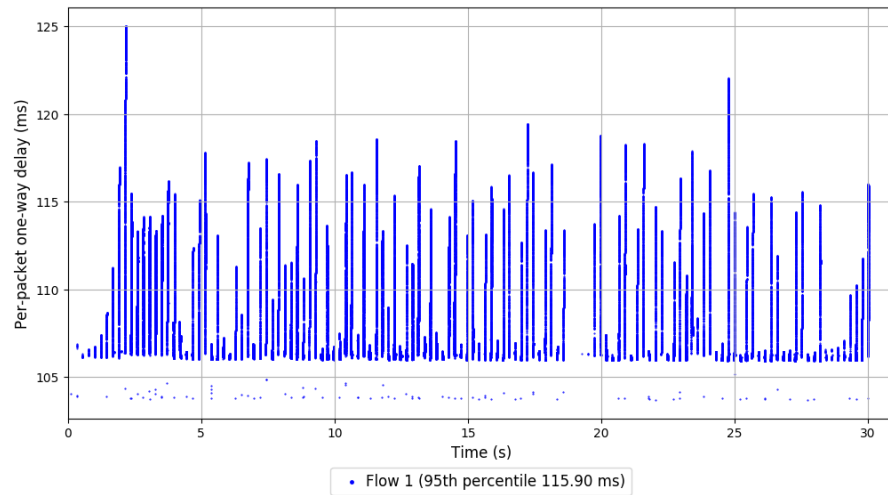
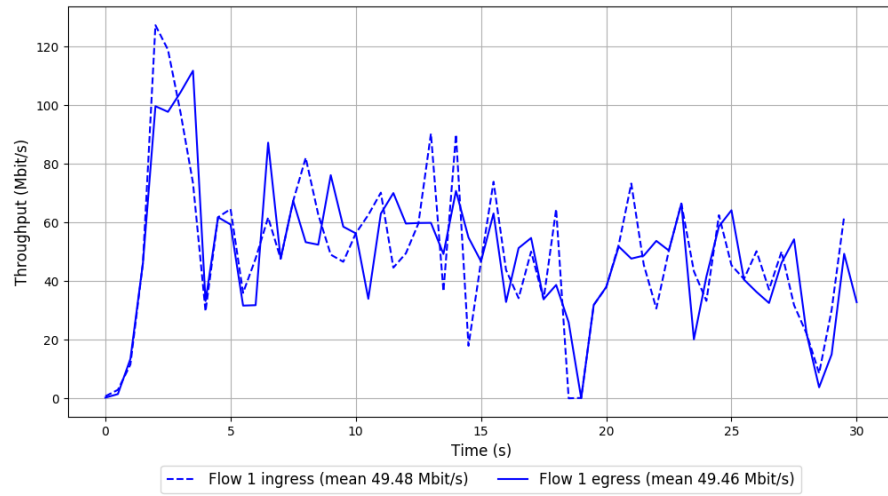
-- Flow 1:

Average throughput: 49.46 Mbit/s

95th percentile per-packet one-way delay: 115.899 ms

Loss rate: 0.00%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2017-10-10 19:49:48

End at: 2017-10-10 19:50:18

Below is generated by plot.py at 2017-10-10 22:06:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 65.09 Mbit/s

95th percentile per-packet one-way delay: 113.945 ms

Loss rate: 0.01%

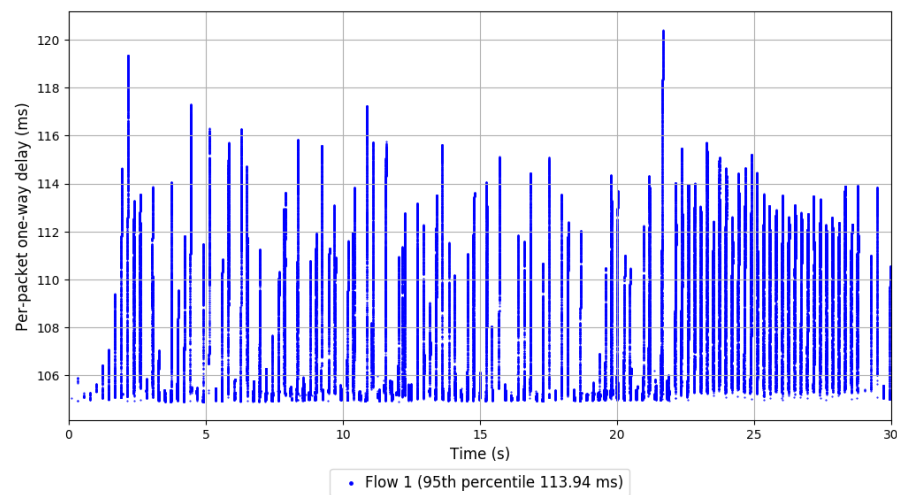
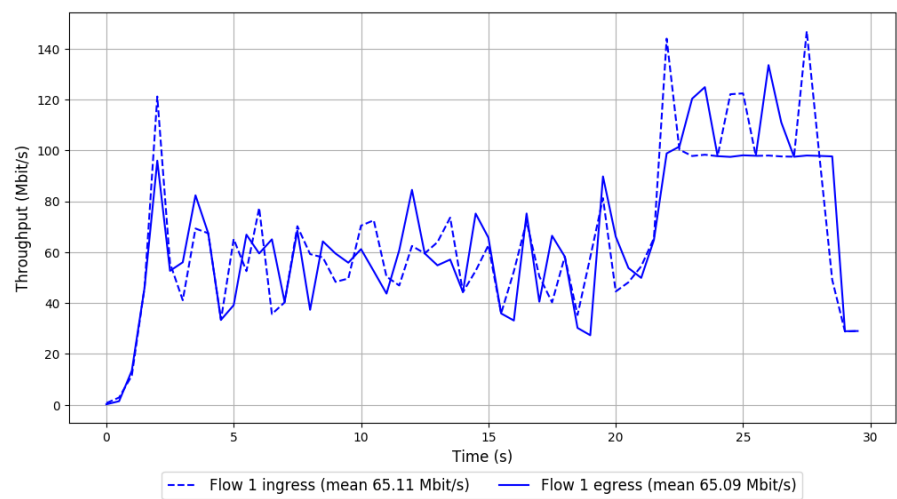
-- Flow 1:

Average throughput: 65.09 Mbit/s

95th percentile per-packet one-way delay: 113.945 ms

Loss rate: 0.01%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2017-10-10 20:00:40

End at: 2017-10-10 20:01:10

Below is generated by plot.py at 2017-10-10 22:06:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.55 Mbit/s

95th percentile per-packet one-way delay: 117.026 ms

Loss rate: 0.01%

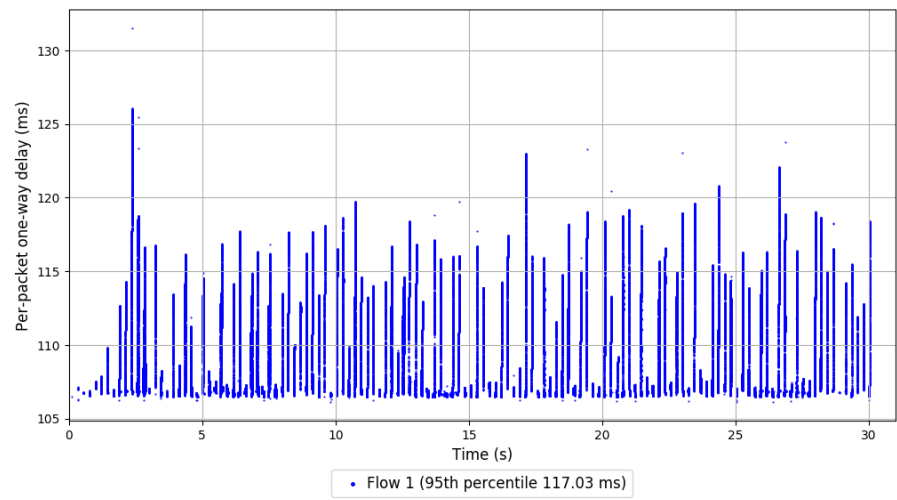
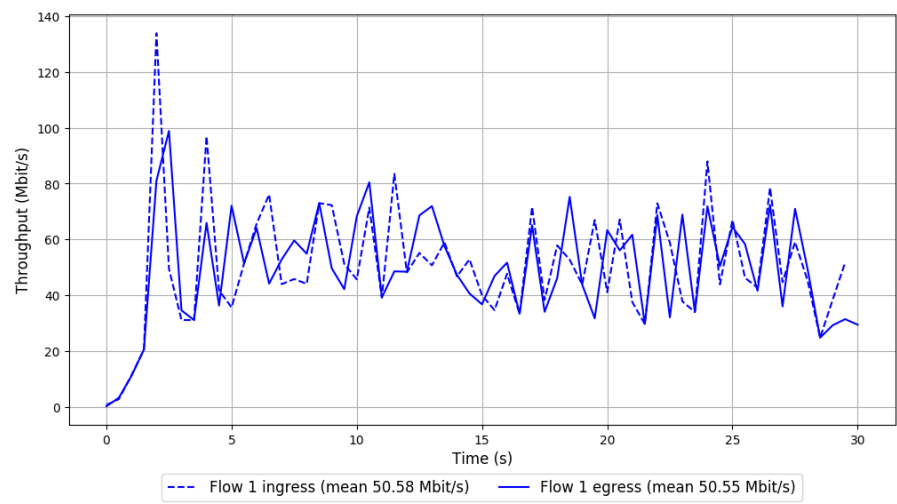
-- Flow 1:

Average throughput: 50.55 Mbit/s

95th percentile per-packet one-way delay: 117.026 ms

Loss rate: 0.01%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2017-10-10 20:11:49

End at: 2017-10-10 20:12:19

Below is generated by plot.py at 2017-10-10 22:06:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 64.49 Mbit/s

95th percentile per-packet one-way delay: 115.652 ms

Loss rate: 0.00%

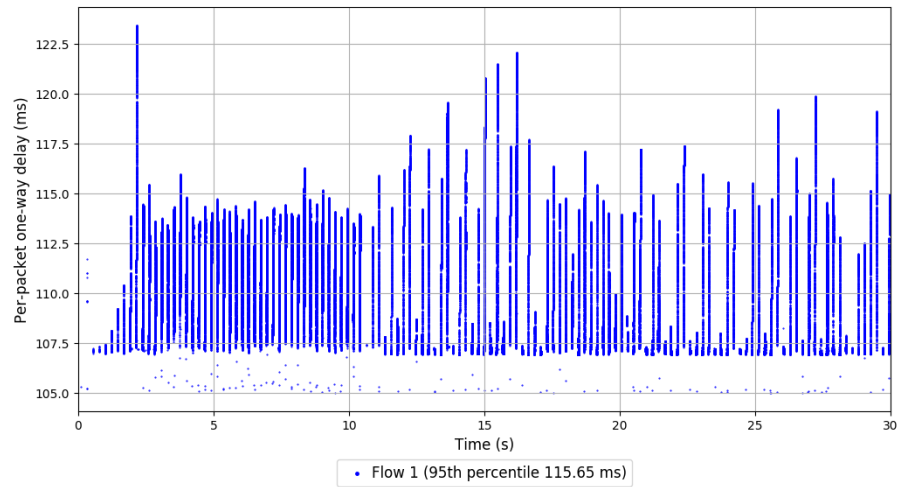
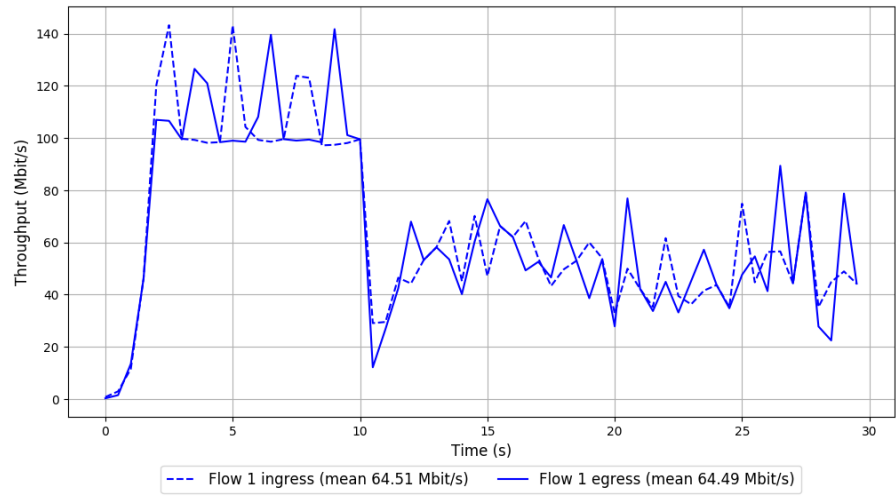
-- Flow 1:

Average throughput: 64.49 Mbit/s

95th percentile per-packet one-way delay: 115.652 ms

Loss rate: 0.00%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2017-10-10 20:22:49

End at: 2017-10-10 20:23:20

Below is generated by plot.py at 2017-10-10 22:06:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 58.40 Mbit/s

95th percentile per-packet one-way delay: 117.165 ms

Loss rate: 0.00%

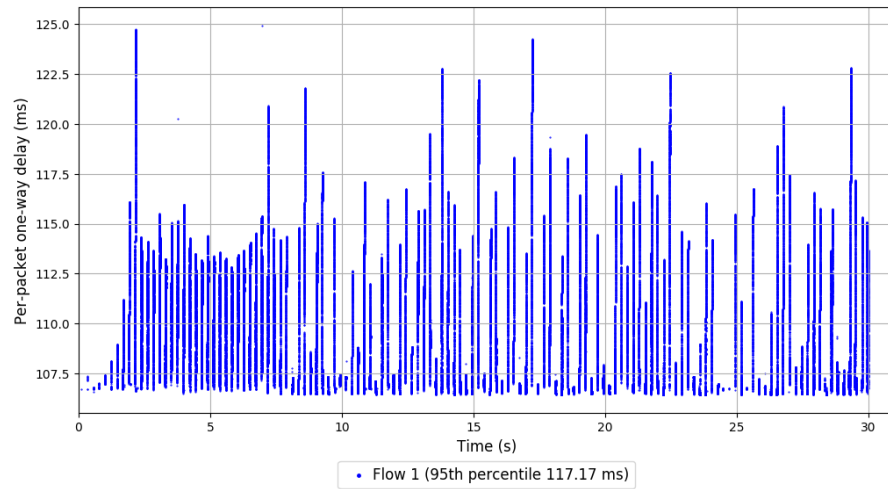
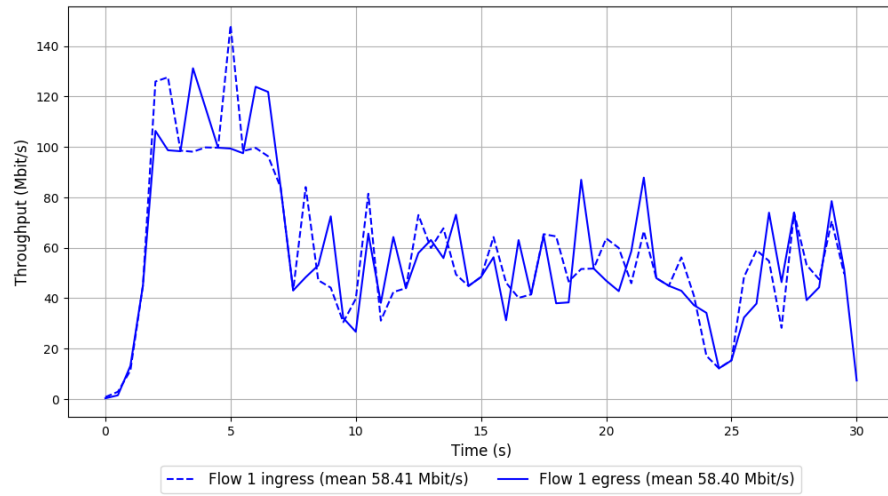
-- Flow 1:

Average throughput: 58.40 Mbit/s

95th percentile per-packet one-way delay: 117.165 ms

Loss rate: 0.00%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2017-10-10 20:34:22

End at: 2017-10-10 20:34:52

Below is generated by plot.py at 2017-10-10 22:06:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.30 Mbit/s

95th percentile per-packet one-way delay: 112.105 ms

Loss rate: 0.00%

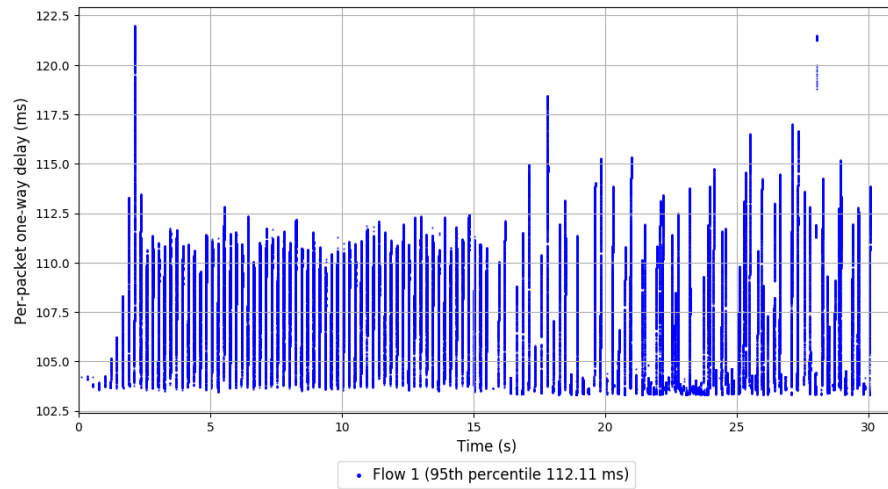
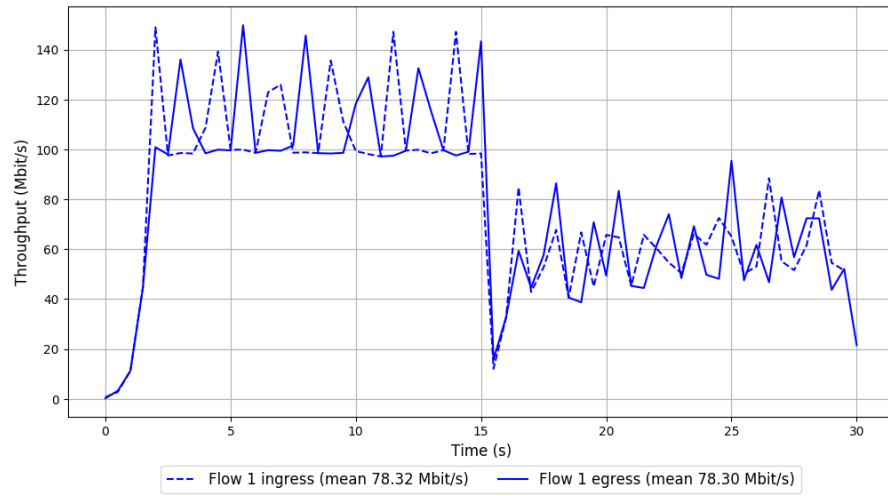
-- Flow 1:

Average throughput: 78.30 Mbit/s

95th percentile per-packet one-way delay: 112.105 ms

Loss rate: 0.00%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2017-10-10 20:45:32

End at: 2017-10-10 20:46:02

Below is generated by plot.py at 2017-10-10 22:06:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.70 Mbit/s

95th percentile per-packet one-way delay: 112.884 ms

Loss rate: 0.09%

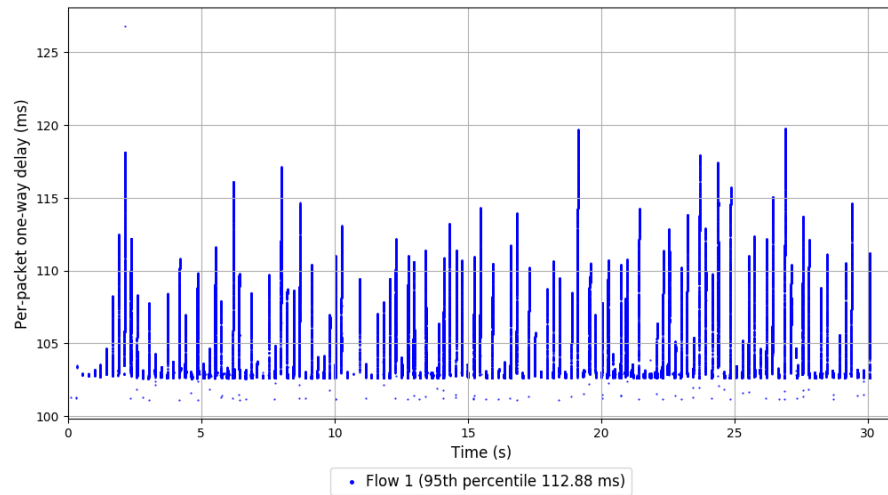
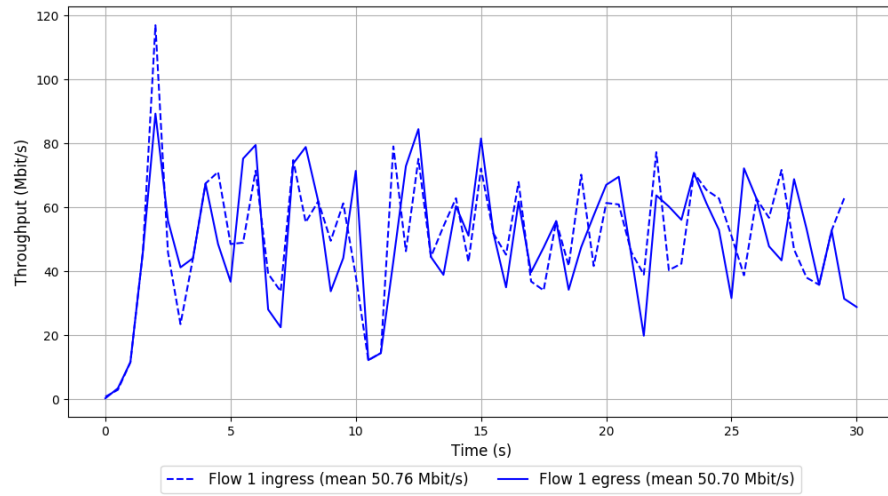
-- Flow 1:

Average throughput: 50.70 Mbit/s

95th percentile per-packet one-way delay: 112.884 ms

Loss rate: 0.09%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2017-10-10 20:56:53

End at: 2017-10-10 20:57:23

Below is generated by plot.py at 2017-10-10 22:06:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 48.25 Mbit/s

95th percentile per-packet one-way delay: 112.227 ms

Loss rate: 0.01%

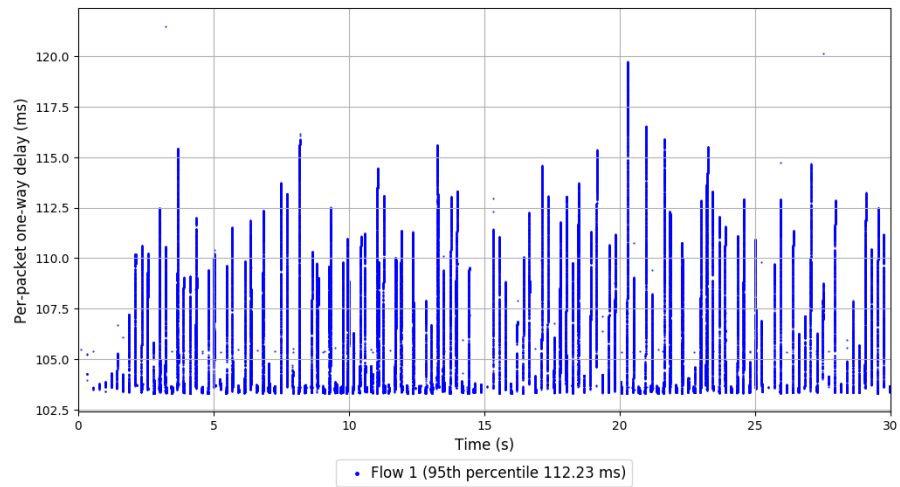
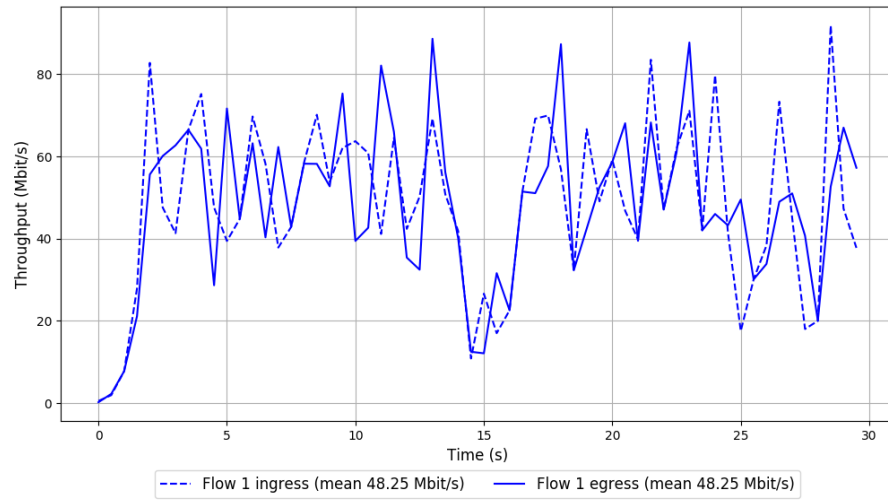
-- Flow 1:

Average throughput: 48.25 Mbit/s

95th percentile per-packet one-way delay: 112.227 ms

Loss rate: 0.01%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2017-10-10 21:08:15

End at: 2017-10-10 21:08:45

Below is generated by plot.py at 2017-10-10 22:07:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 65.19 Mbit/s

95th percentile per-packet one-way delay: 114.954 ms

Loss rate: 0.00%

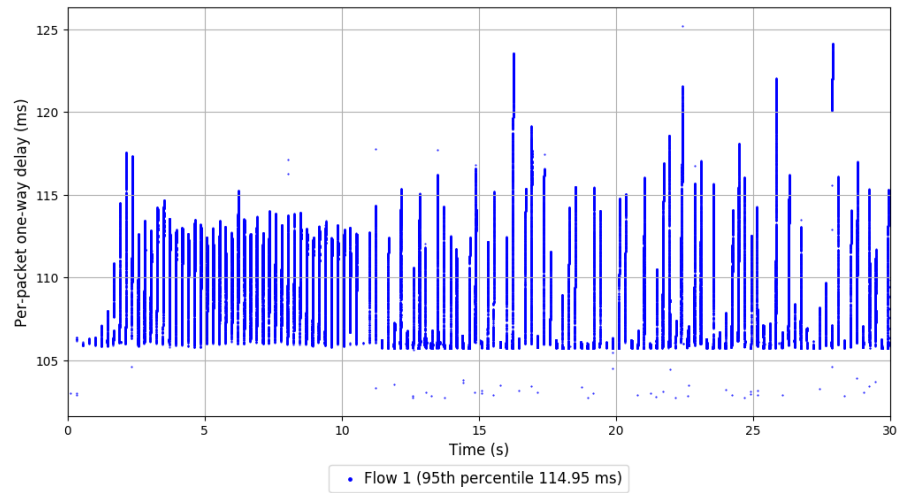
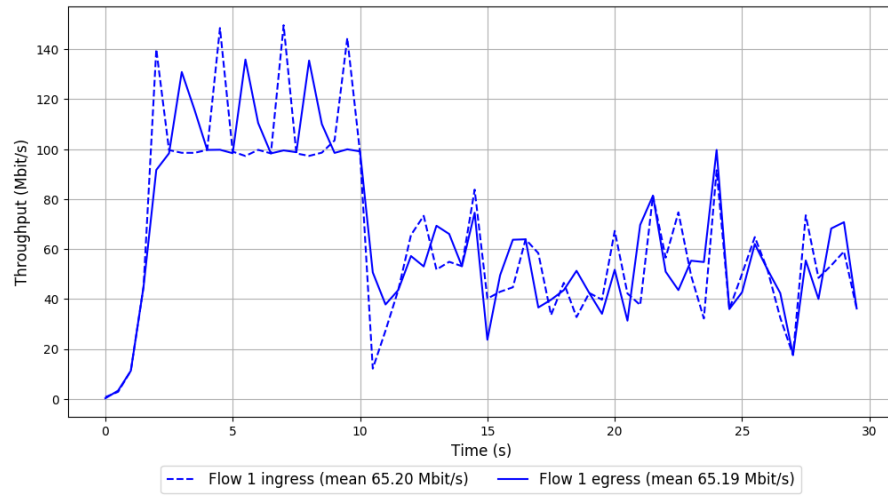
-- Flow 1:

Average throughput: 65.19 Mbit/s

95th percentile per-packet one-way delay: 114.954 ms

Loss rate: 0.00%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2017-10-10 21:19:34

End at: 2017-10-10 21:20:04

Below is generated by plot.py at 2017-10-10 22:07:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 47.26 Mbit/s

95th percentile per-packet one-way delay: 115.505 ms

Loss rate: 0.00%

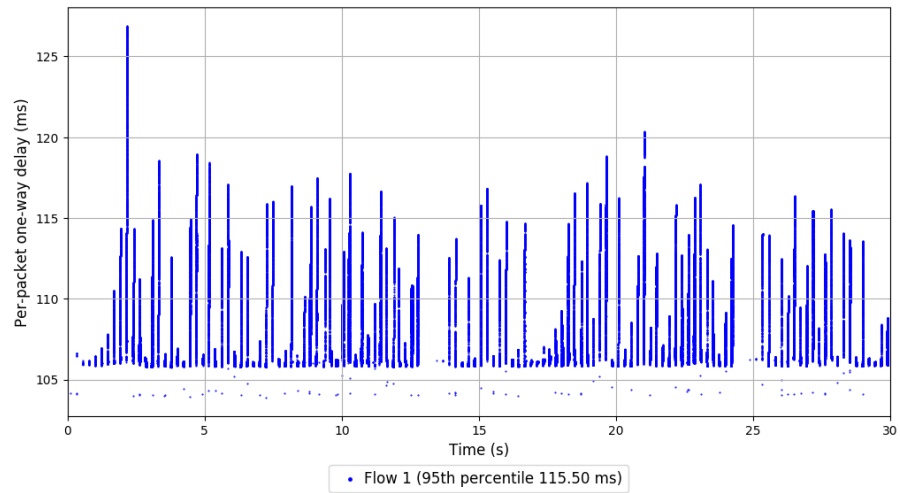
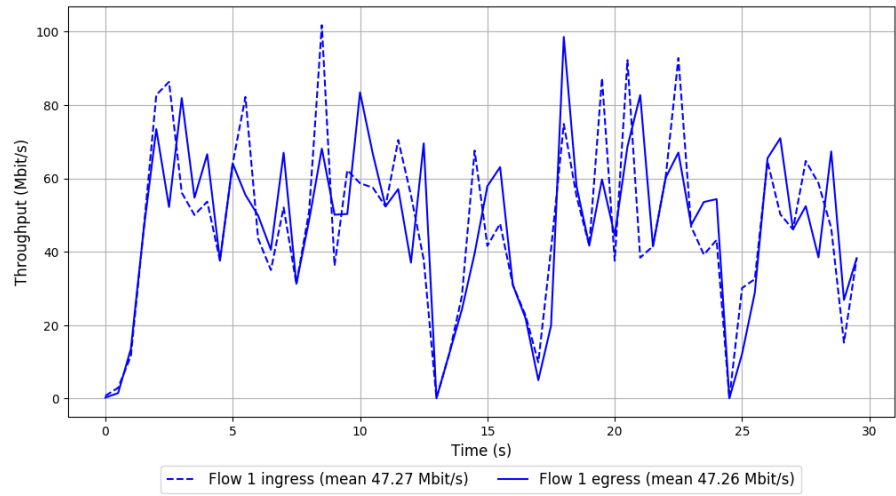
-- Flow 1:

Average throughput: 47.26 Mbit/s

95th percentile per-packet one-way delay: 115.505 ms

Loss rate: 0.00%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

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

End at: 2017-10-10 19:38:00

Below is generated by plot.py at 2017-10-10 22:07:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.40 Mbit/s

95th percentile per-packet one-way delay: 109.643 ms

Loss rate: 0.01%

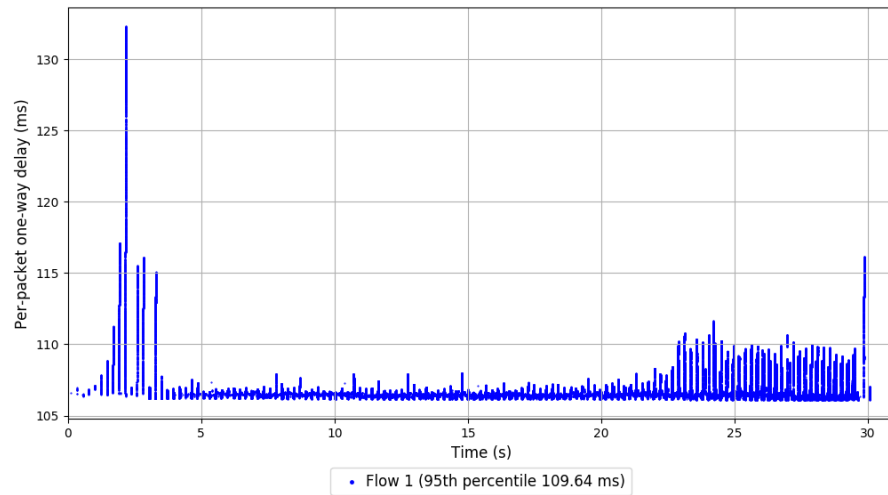
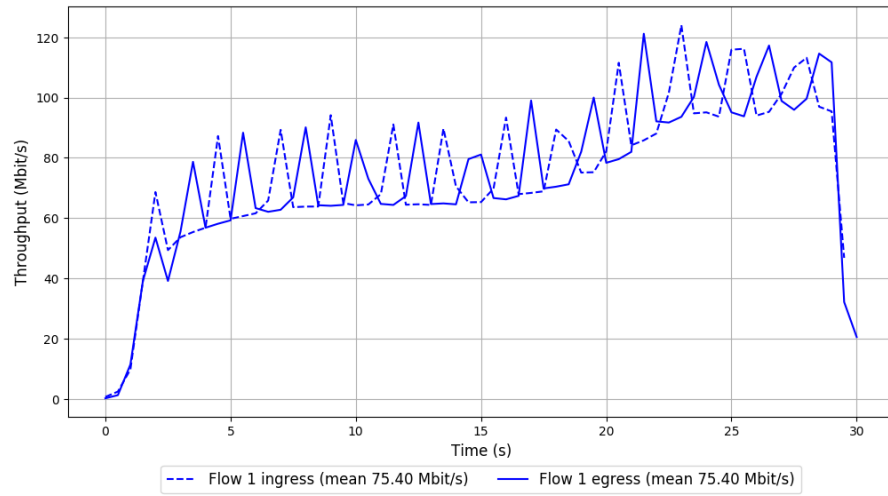
-- Flow 1:

Average throughput: 75.40 Mbit/s

95th percentile per-packet one-way delay: 109.643 ms

Loss rate: 0.01%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2017-10-10 19:49:03

End at: 2017-10-10 19:49:33

Below is generated by plot.py at 2017-10-10 22:07:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 63.51 Mbit/s

95th percentile per-packet one-way delay: 107.456 ms

Loss rate: 0.00%

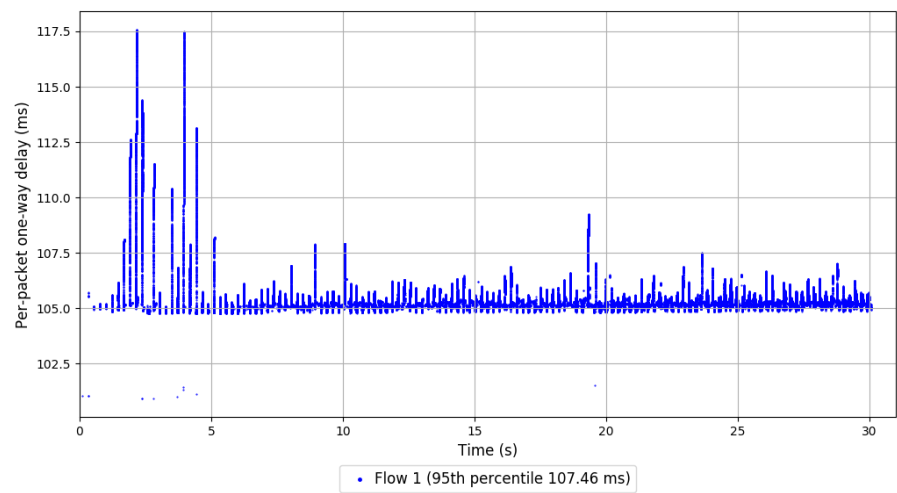
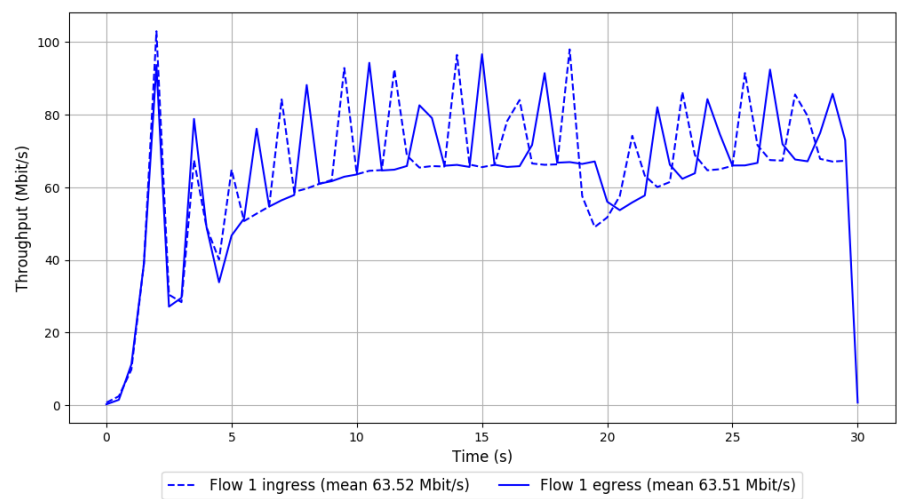
-- Flow 1:

Average throughput: 63.51 Mbit/s

95th percentile per-packet one-way delay: 107.456 ms

Loss rate: 0.00%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2017-10-10 19:59:55

End at: 2017-10-10 20:00:25

Below is generated by plot.py at 2017-10-10 22:07:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 57.32 Mbit/s

95th percentile per-packet one-way delay: 111.883 ms

Loss rate: 0.00%

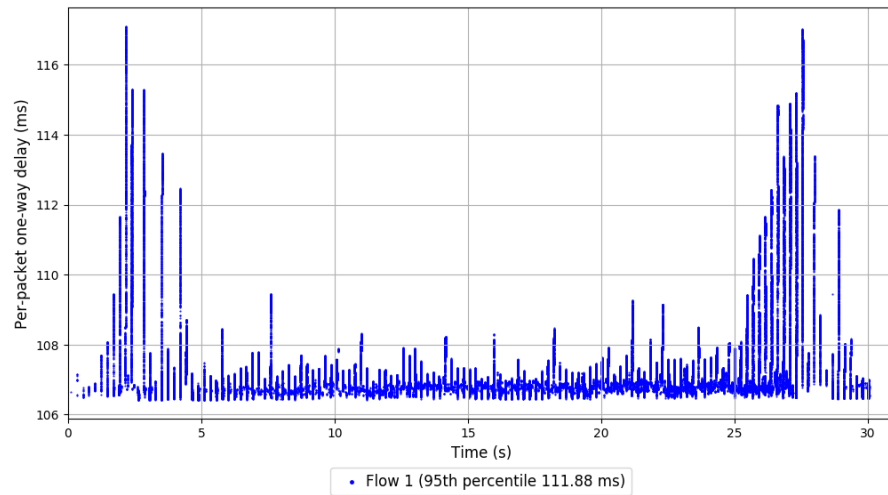
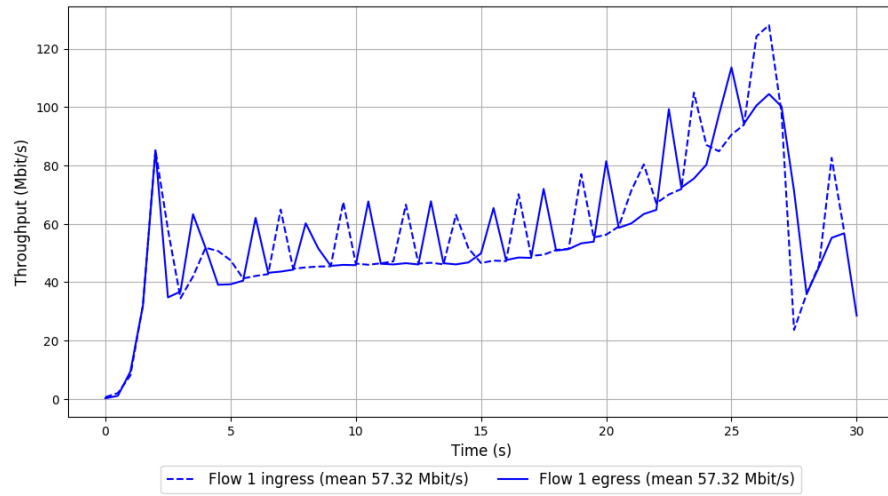
-- Flow 1:

Average throughput: 57.32 Mbit/s

95th percentile per-packet one-way delay: 111.883 ms

Loss rate: 0.00%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2017-10-10 20:11:03

End at: 2017-10-10 20:11:33

Below is generated by plot.py at 2017-10-10 22:07:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 65.80 Mbit/s

95th percentile per-packet one-way delay: 113.629 ms

Loss rate: 0.00%

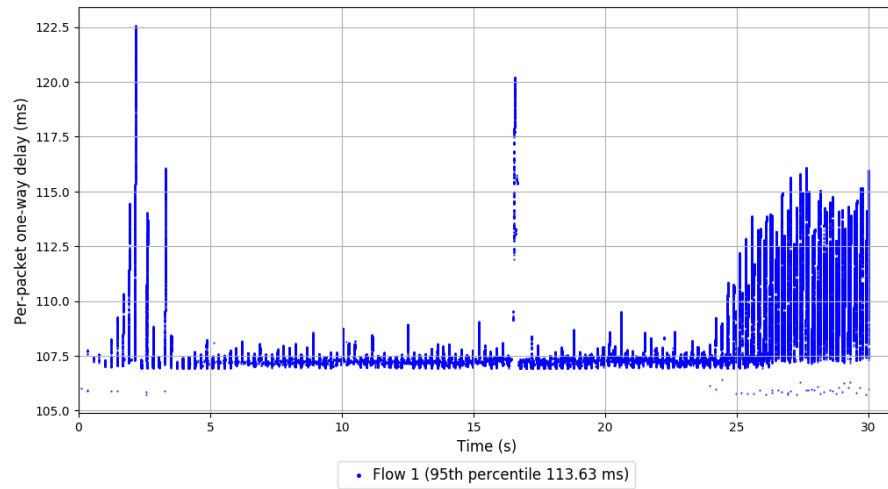
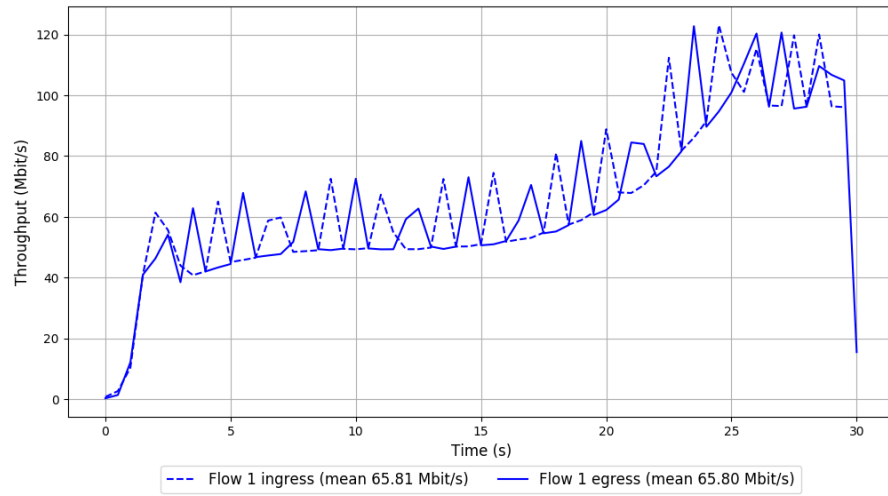
-- Flow 1:

Average throughput: 65.80 Mbit/s

95th percentile per-packet one-way delay: 113.629 ms

Loss rate: 0.00%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2017-10-10 20:22:02

End at: 2017-10-10 20:22:32

Below is generated by plot.py at 2017-10-10 22:08:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 102.85 Mbit/s

95th percentile per-packet one-way delay: 113.592 ms

Loss rate: 0.23%

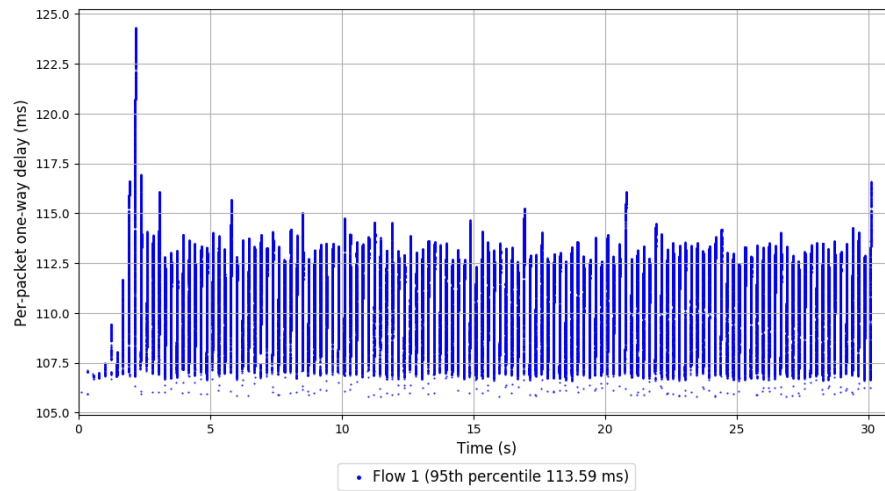
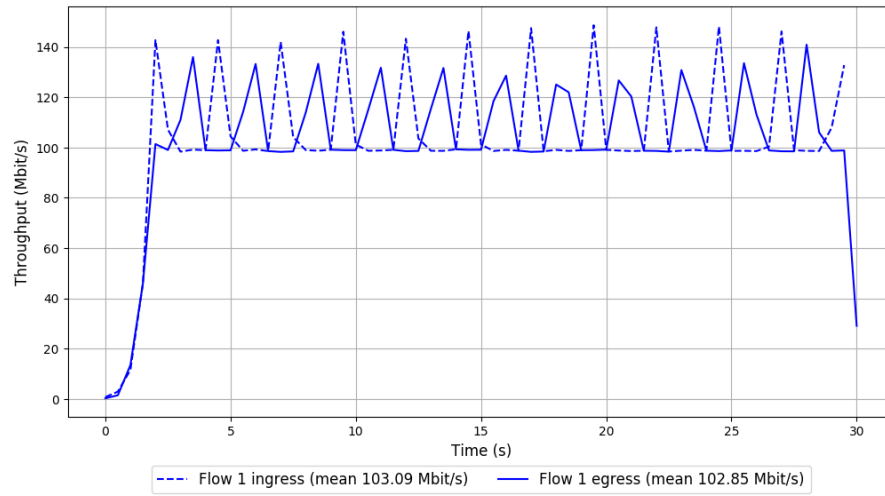
-- Flow 1:

Average throughput: 102.85 Mbit/s

95th percentile per-packet one-way delay: 113.592 ms

Loss rate: 0.23%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2017-10-10 20:33:37

End at: 2017-10-10 20:34:07

Below is generated by plot.py at 2017-10-10 22:08:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 61.30 Mbit/s

95th percentile per-packet one-way delay: 112.071 ms

Loss rate: 0.00%

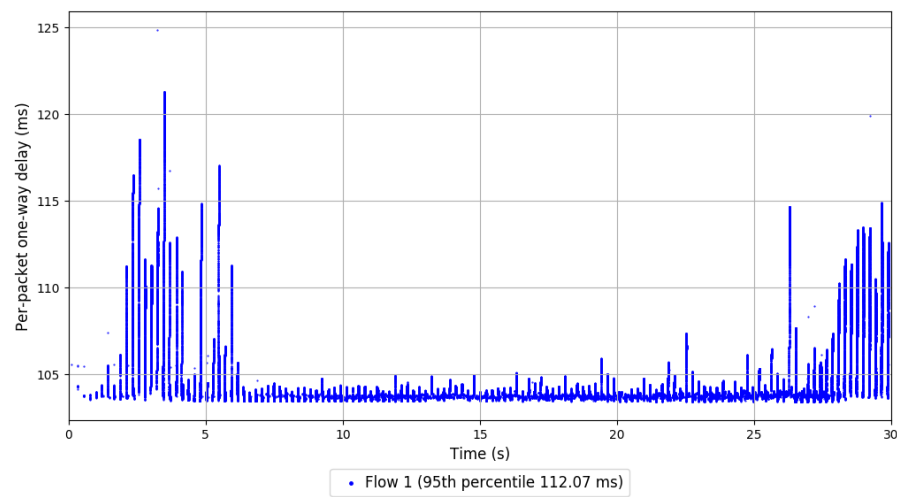
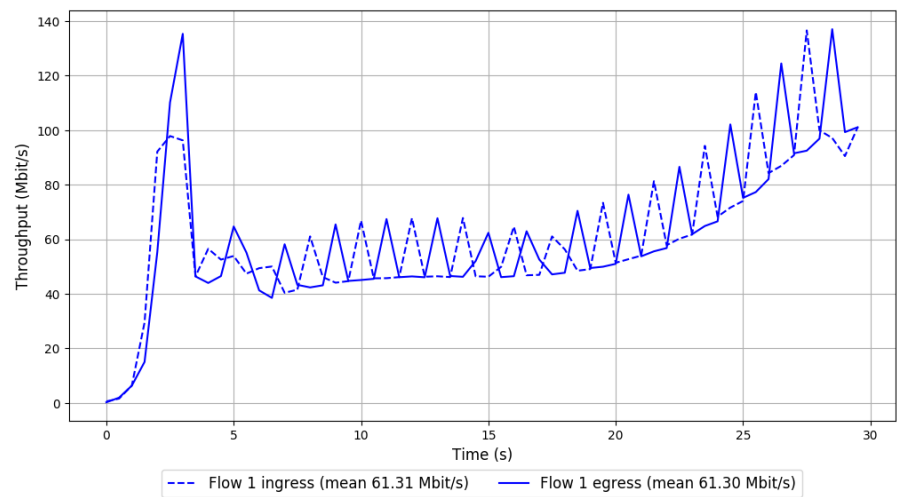
-- Flow 1:

Average throughput: 61.30 Mbit/s

95th percentile per-packet one-way delay: 112.071 ms

Loss rate: 0.00%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2017-10-10 20:44:48

End at: 2017-10-10 20:45:18

Below is generated by plot.py at 2017-10-10 22:08:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 44.66 Mbit/s

95th percentile per-packet one-way delay: 104.583 ms

Loss rate: 0.00%

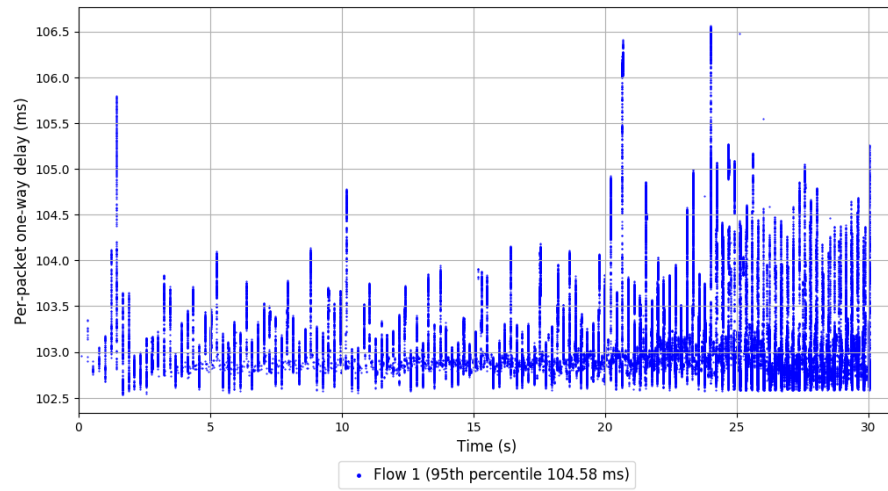
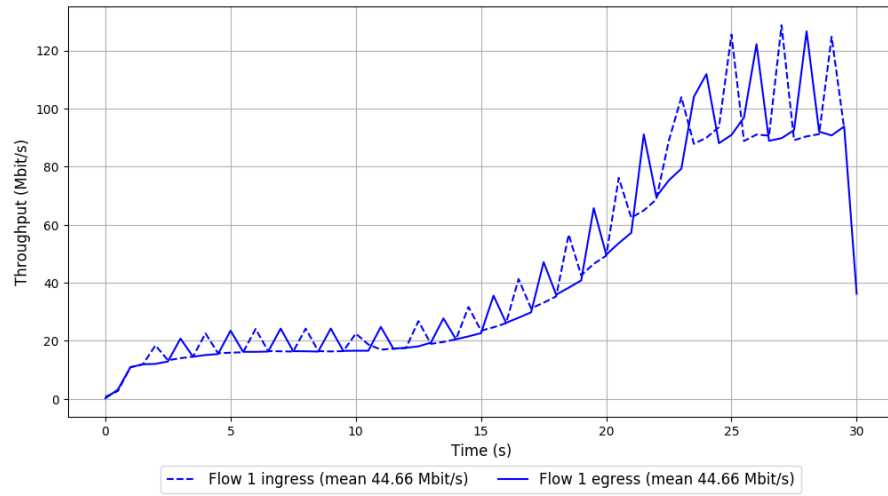
-- Flow 1:

Average throughput: 44.66 Mbit/s

95th percentile per-packet one-way delay: 104.583 ms

Loss rate: 0.00%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2017-10-10 20:56:06

End at: 2017-10-10 20:56:36

Below is generated by plot.py at 2017-10-10 22:08:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 79.17 Mbit/s

95th percentile per-packet one-way delay: 110.943 ms

Loss rate: 0.00%

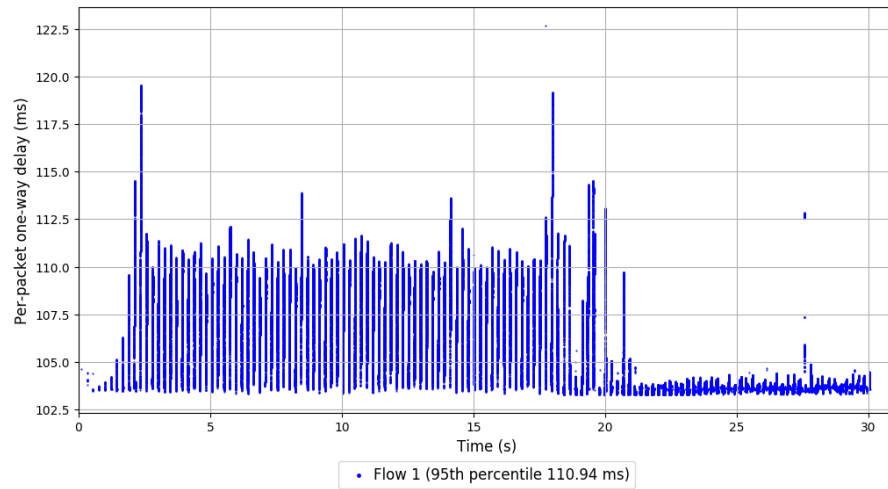
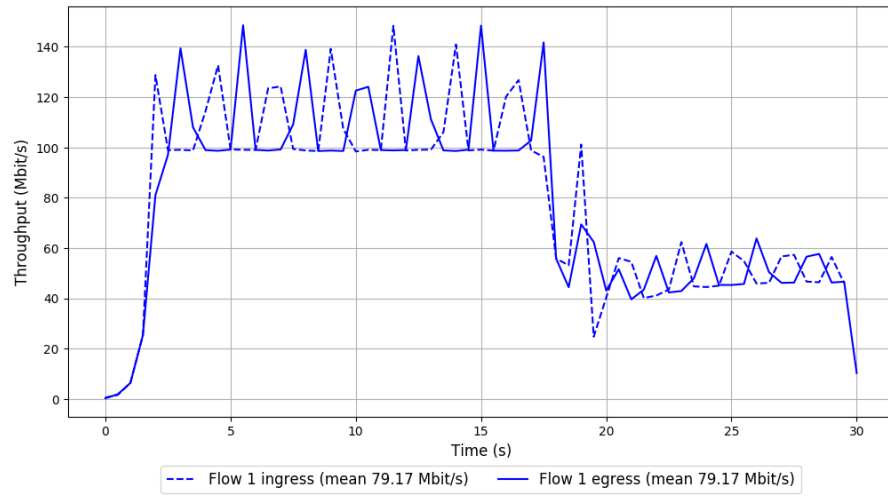
-- Flow 1:

Average throughput: 79.17 Mbit/s

95th percentile per-packet one-way delay: 110.943 ms

Loss rate: 0.00%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2017-10-10 21:07:29

End at: 2017-10-10 21:07:59

Below is generated by plot.py at 2017-10-10 22:08:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 76.21 Mbit/s

95th percentile per-packet one-way delay: 113.464 ms

Loss rate: 0.03%

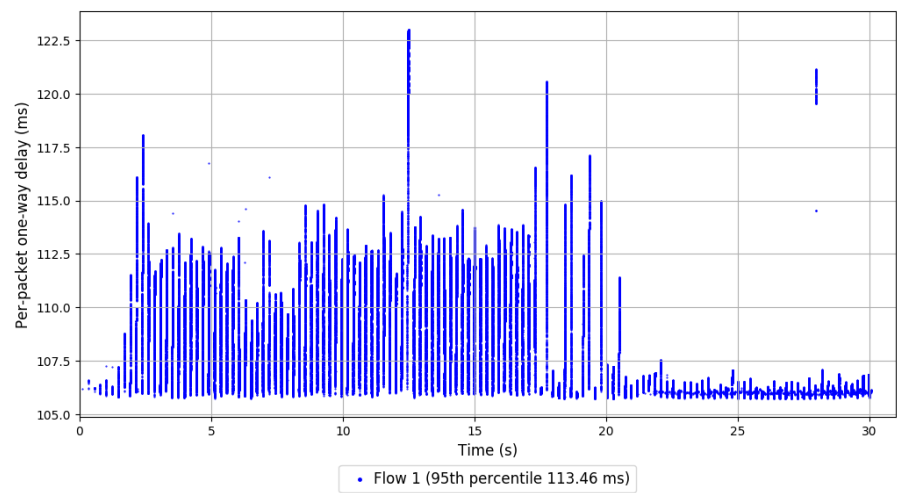
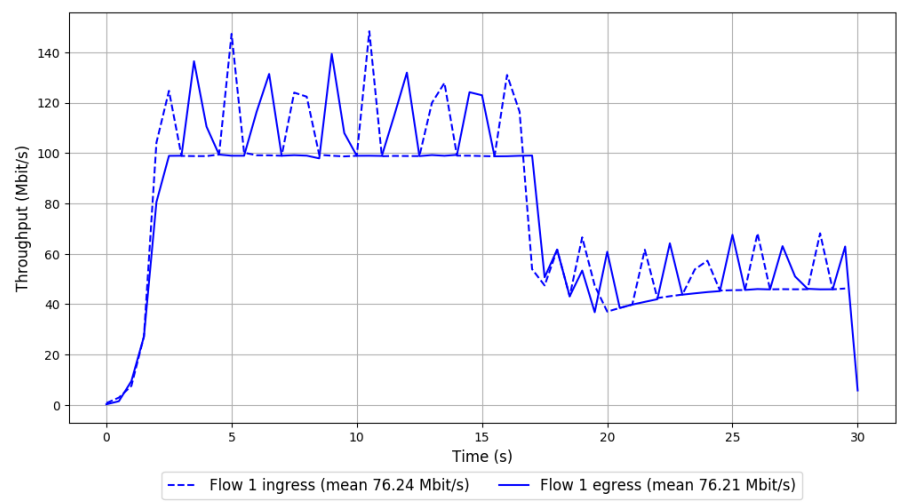
-- Flow 1:

Average throughput: 76.21 Mbit/s

95th percentile per-packet one-way delay: 113.464 ms

Loss rate: 0.03%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2017-10-10 21:18:47

End at: 2017-10-10 21:19:17

Below is generated by plot.py at 2017-10-10 22:08:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.33 Mbit/s

95th percentile per-packet one-way delay: 112.862 ms

Loss rate: 0.00%

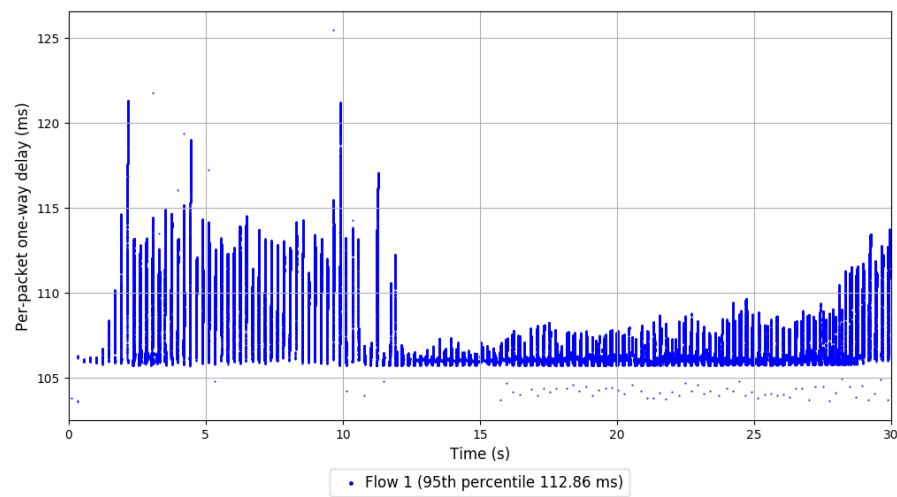
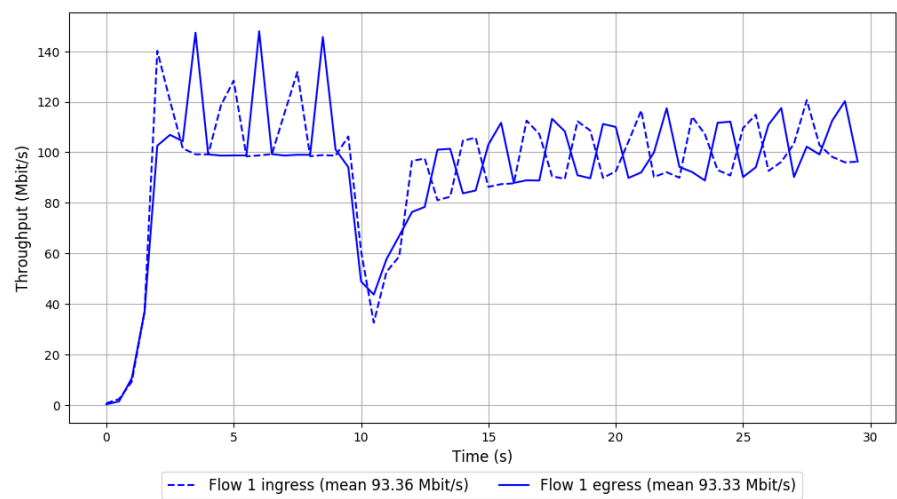
-- Flow 1:

Average throughput: 93.33 Mbit/s

95th percentile per-packet one-way delay: 112.862 ms

Loss rate: 0.00%

Run 10: Report of TCP Cubic — Data Link

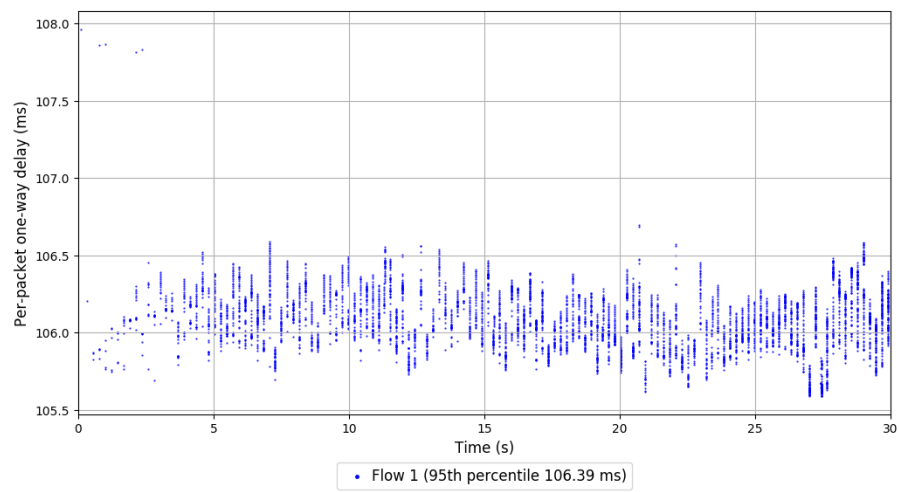
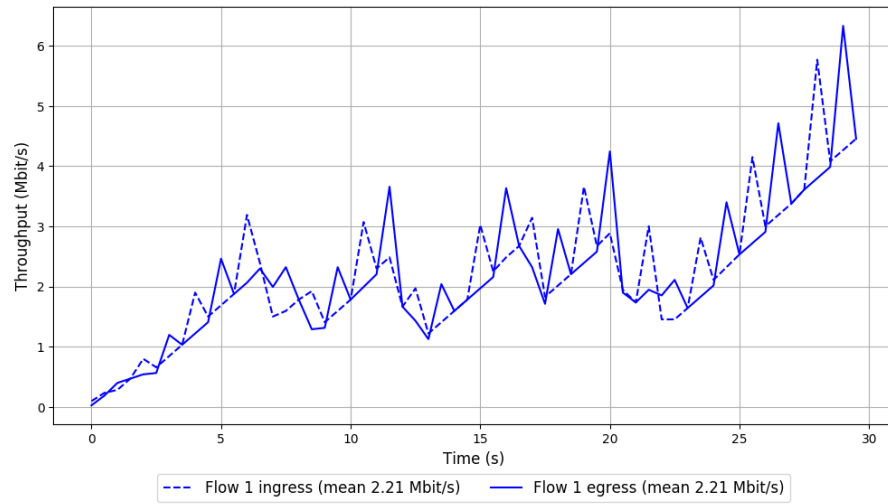


```
Run 1: Statistics of LEDBAT

Start at: 2017-10-10 19:28:22
End at: 2017-10-10 19:28:52

# Below is generated by plot.py at 2017-10-10 22:08:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.21 Mbit/s
95th percentile per-packet one-way delay: 106.390 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 2.21 Mbit/s
95th percentile per-packet one-way delay: 106.390 ms
Loss rate: 0.04%
```


Run 1: Report of LEDBAT — Data Link

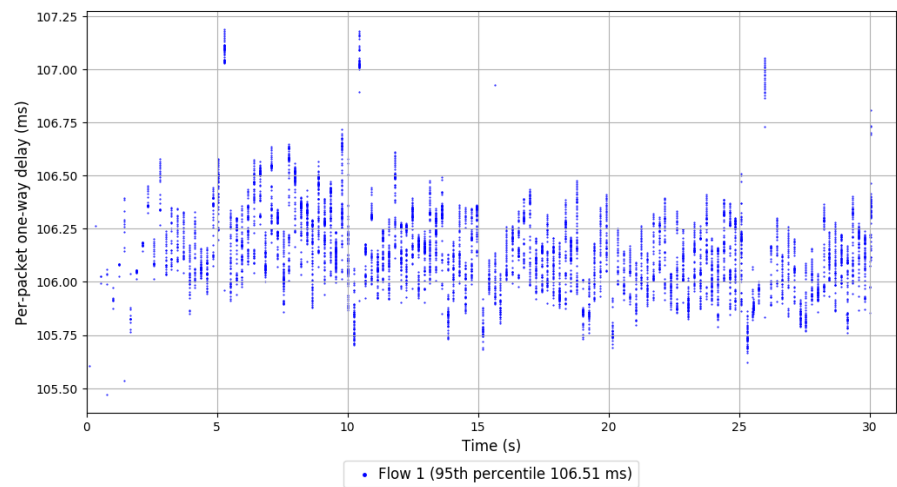
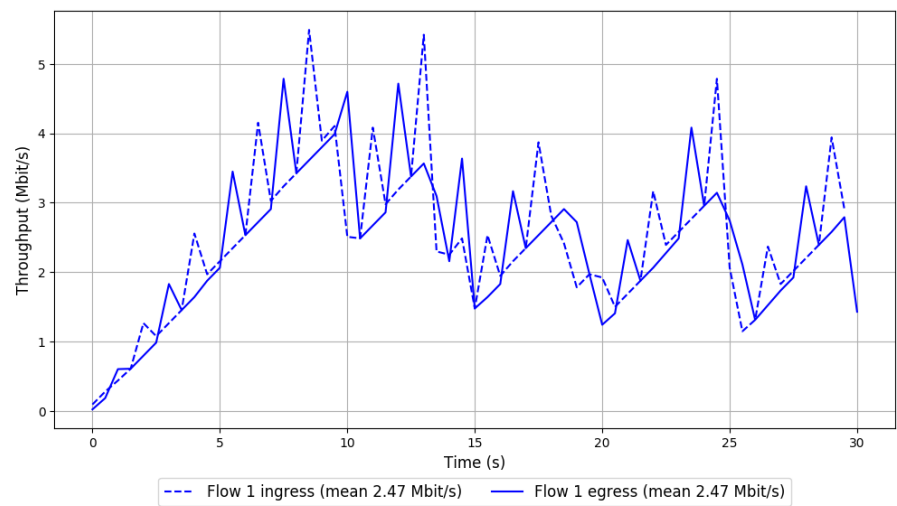


```
Run 2: Statistics of LEDBAT

Start at: 2017-10-10 19:39:55
End at: 2017-10-10 19:40:25

# Below is generated by plot.py at 2017-10-10 22:08:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.47 Mbit/s
95th percentile per-packet one-way delay: 106.506 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 2.47 Mbit/s
95th percentile per-packet one-way delay: 106.506 ms
Loss rate: 0.03%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2017-10-10 19:51:27

End at: 2017-10-10 19:51:57

Below is generated by plot.py at 2017-10-10 22:08:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.20 Mbit/s

95th percentile per-packet one-way delay: 106.172 ms

Loss rate: 0.00%

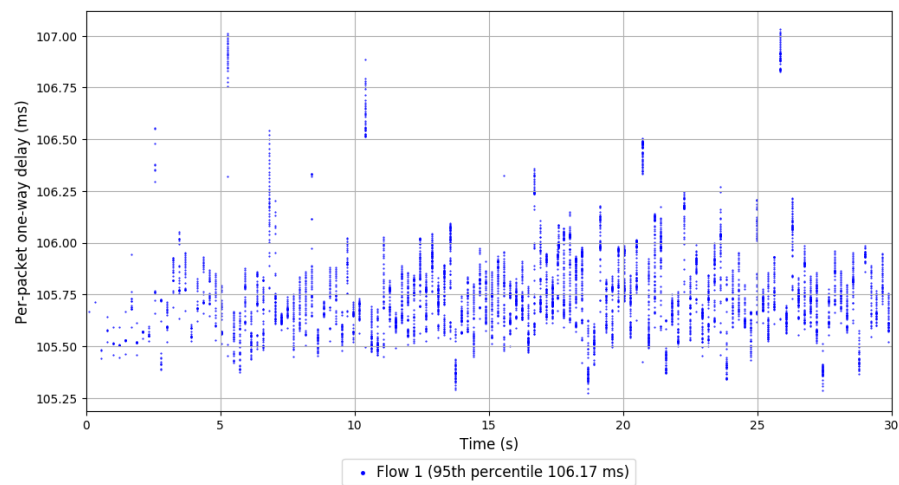
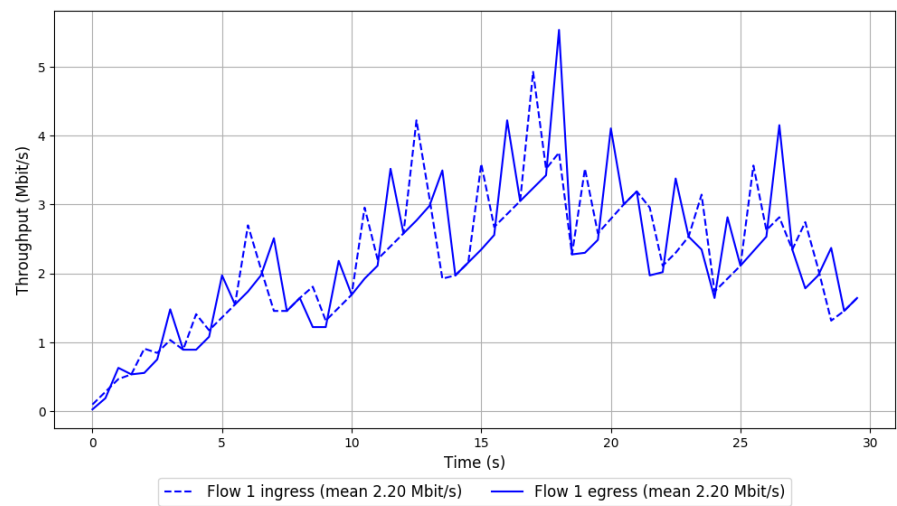
-- Flow 1:

Average throughput: 2.20 Mbit/s

95th percentile per-packet one-way delay: 106.172 ms

Loss rate: 0.00%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2017-10-10 20:02:18

End at: 2017-10-10 20:02:48

Below is generated by plot.py at 2017-10-10 22:08:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.11 Mbit/s

95th percentile per-packet one-way delay: 107.523 ms

Loss rate: 0.06%

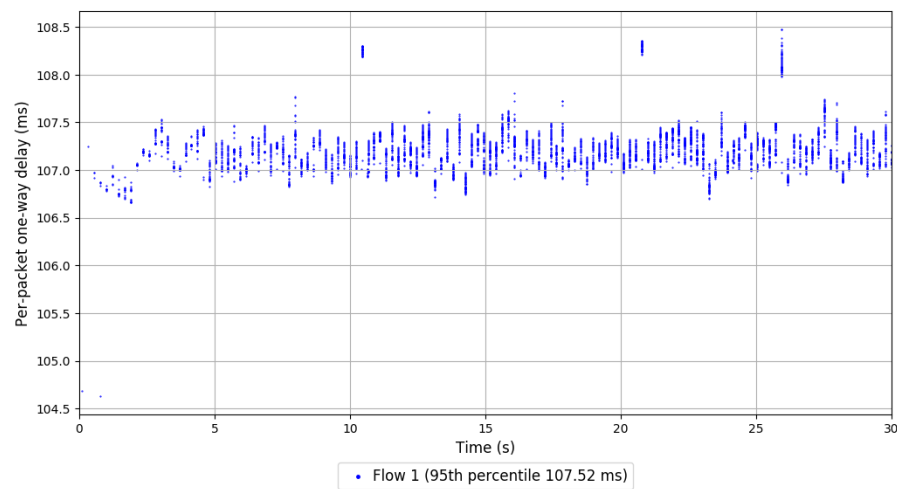
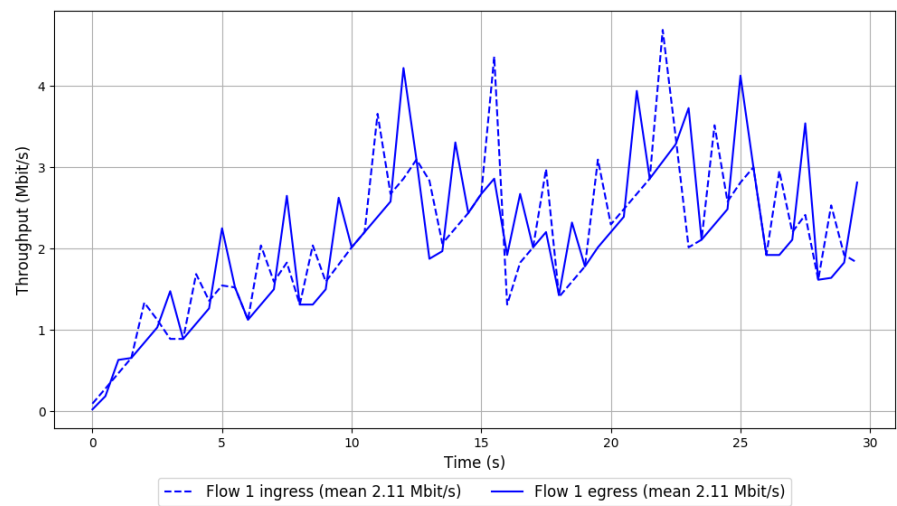
-- Flow 1:

Average throughput: 2.11 Mbit/s

95th percentile per-packet one-way delay: 107.523 ms

Loss rate: 0.06%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2017-10-10 20:13:28

End at: 2017-10-10 20:13:58

Below is generated by plot.py at 2017-10-10 22:08:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.03 Mbit/s

95th percentile per-packet one-way delay: 107.838 ms

Loss rate: 0.15%

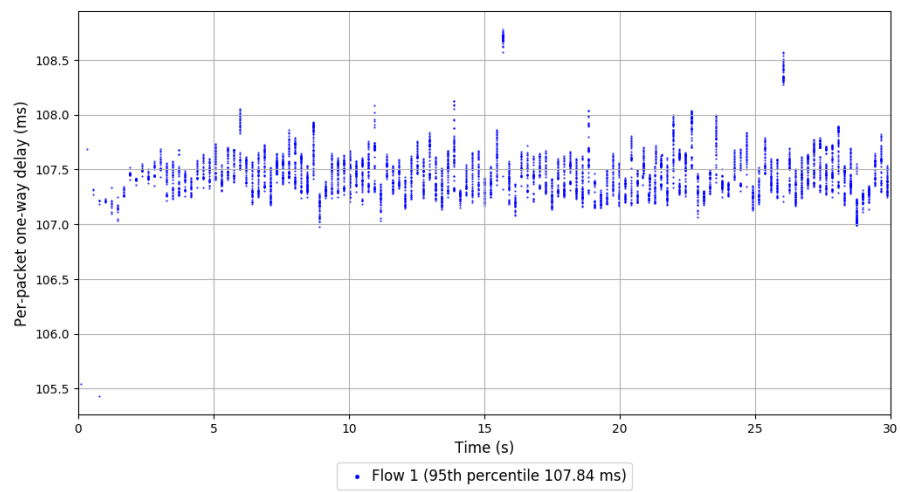
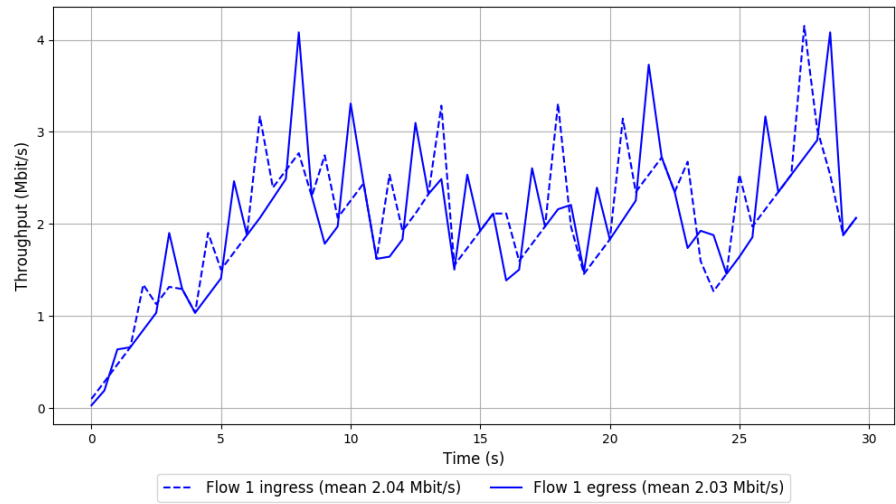
-- Flow 1:

Average throughput: 2.03 Mbit/s

95th percentile per-packet one-way delay: 107.838 ms

Loss rate: 0.15%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2017-10-10 20:24:29

End at: 2017-10-10 20:24:59

Below is generated by plot.py at 2017-10-10 22:08:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.92 Mbit/s

95th percentile per-packet one-way delay: 107.176 ms

Loss rate: 0.08%

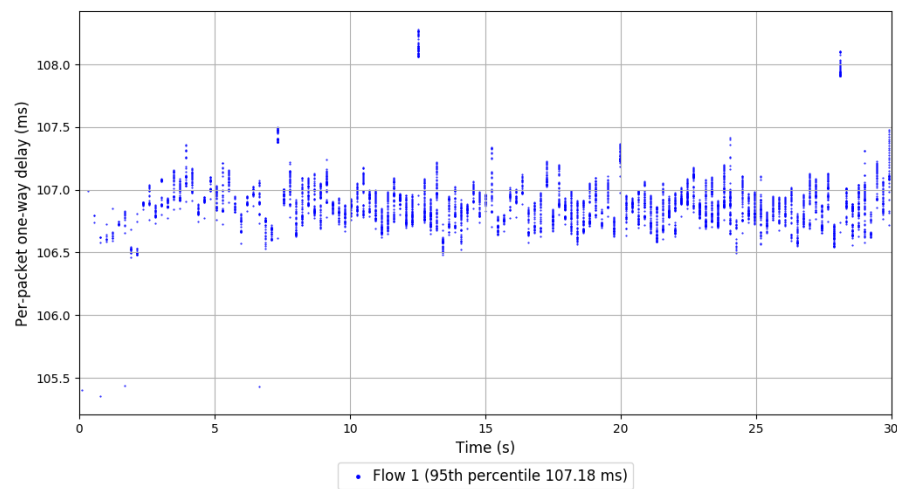
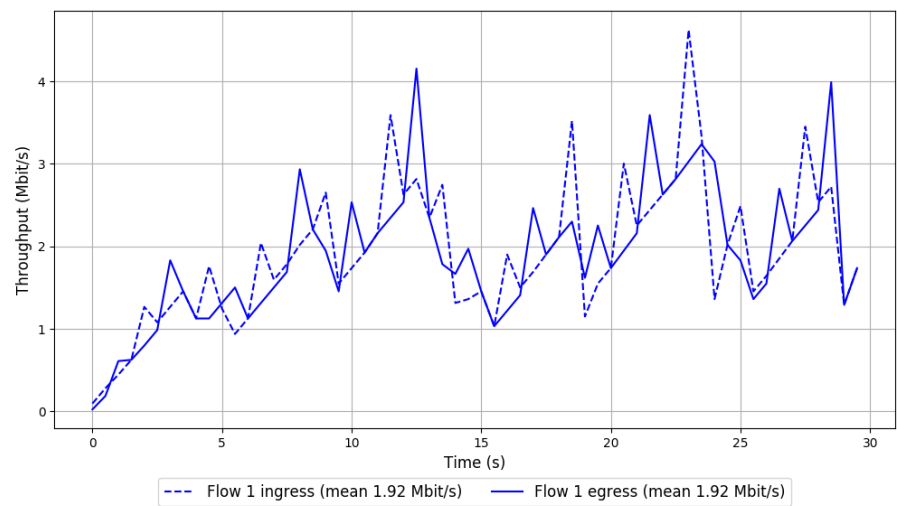
-- Flow 1:

Average throughput: 1.92 Mbit/s

95th percentile per-packet one-way delay: 107.176 ms

Loss rate: 0.08%

Run 6: Report of LEDBAT — Data Link

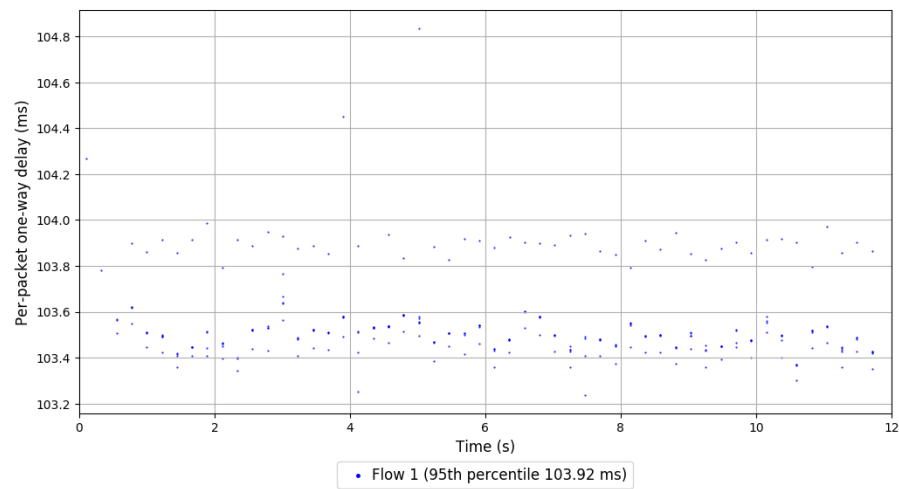
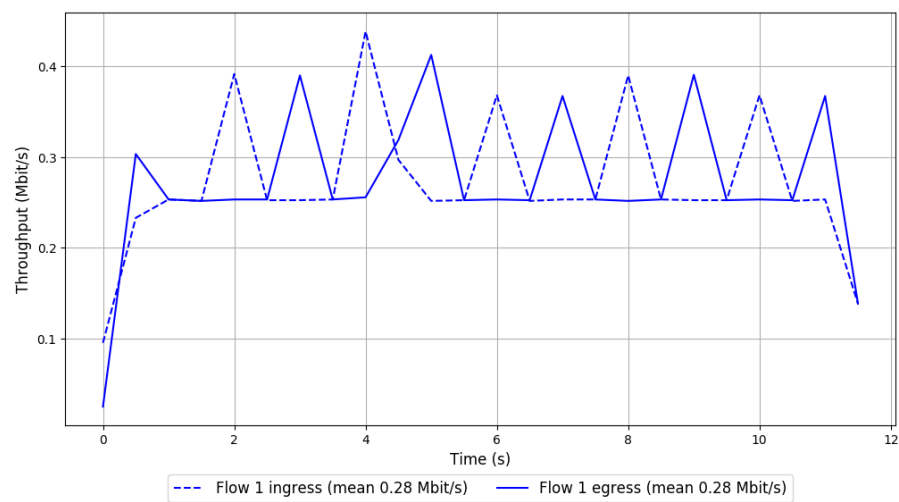


Run 7: Statistics of LEDBAT

Start at: 2017-10-10 20:36:03

End at: 2017-10-10 20:36:33

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2017-10-10 20:47:11

End at: 2017-10-10 20:47:41

Below is generated by plot.py at 2017-10-10 22:08:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.30 Mbit/s

95th percentile per-packet one-way delay: 103.412 ms

Loss rate: 0.00%

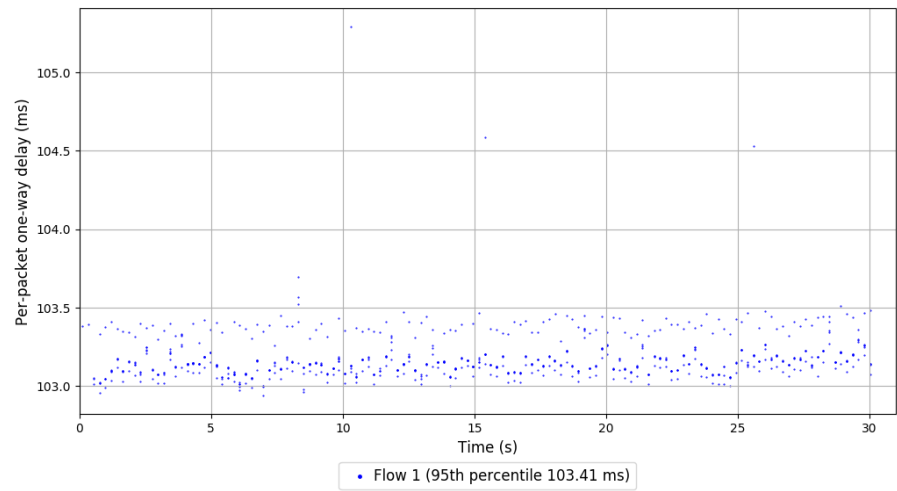
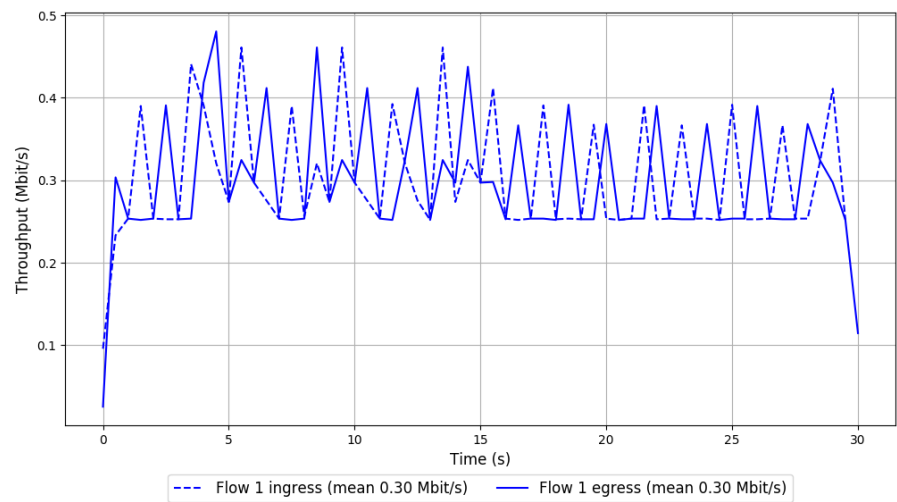
-- Flow 1:

Average throughput: 0.30 Mbit/s

95th percentile per-packet one-way delay: 103.412 ms

Loss rate: 0.00%

Run 8: Report of LEDBAT — Data Link

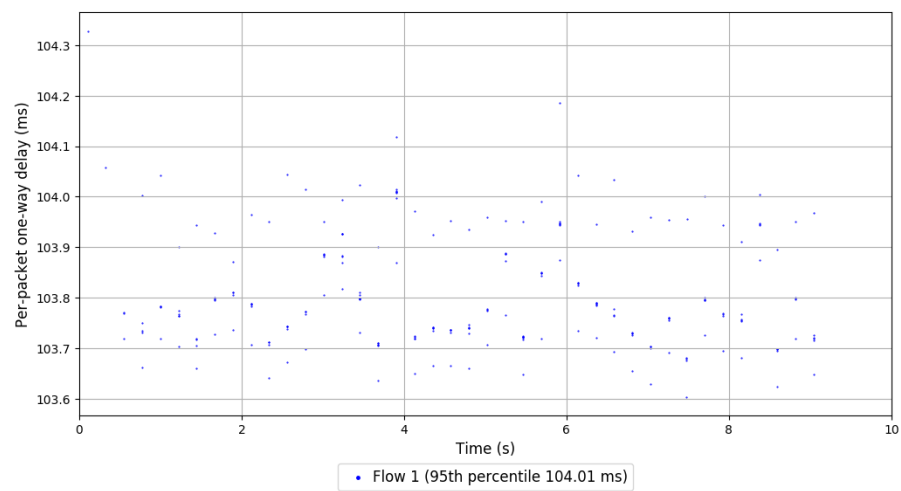
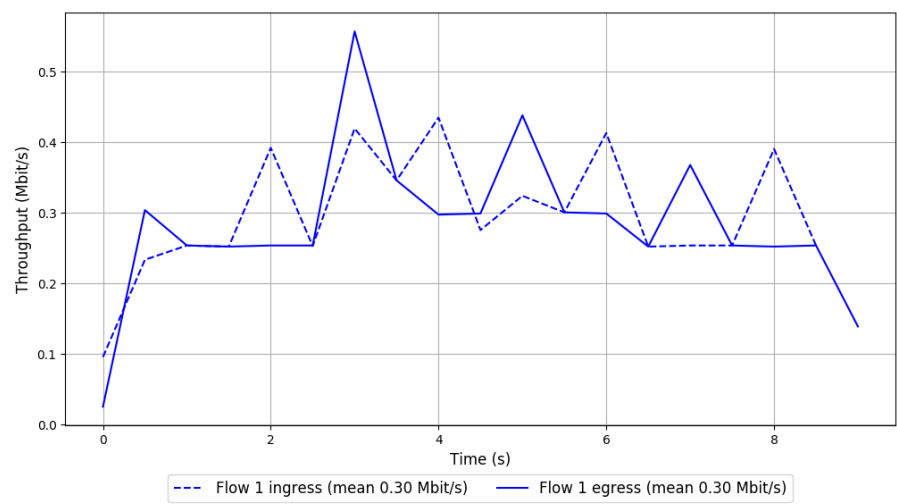


Run 9: Statistics of LEDBAT

Start at: 2017-10-10 20:58:32

End at: 2017-10-10 20:59:02

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2017-10-10 21:09:55

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

Below is generated by plot.py at 2017-10-10 22:08:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.29 Mbit/s

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

Loss rate: 0.15%

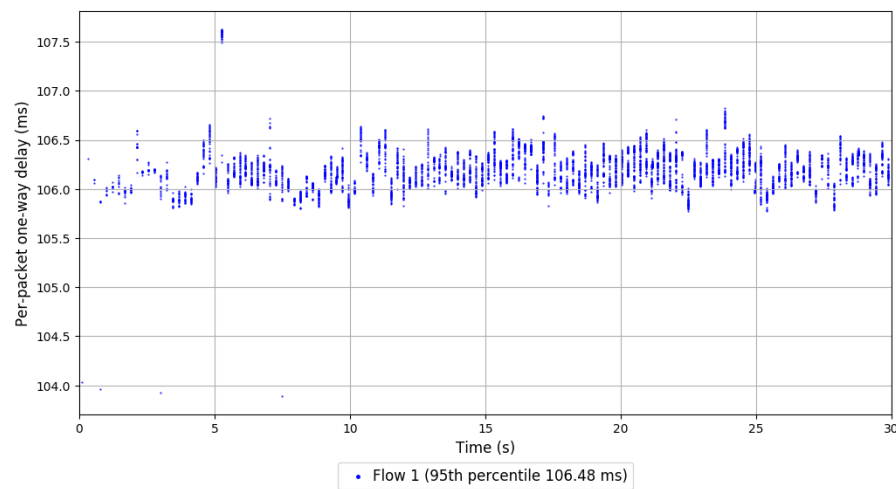
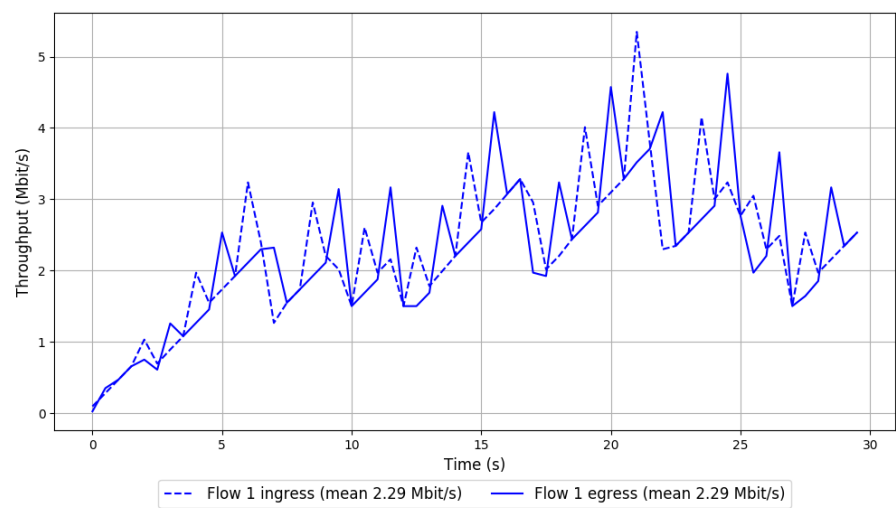
-- Flow 1:

Average throughput: 2.29 Mbit/s

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

Loss rate: 0.15%

Run 10: Report of LEDBAT — Data Link



Run 1: Statistics of PCC

Start at: 2017-10-10 19:35:46

End at: 2017-10-10 19:36:16

Below is generated by plot.py at 2017-10-10 22:17:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 545.11 Mbit/s

95th percentile per-packet one-way delay: 244.119 ms

Loss rate: 4.97%

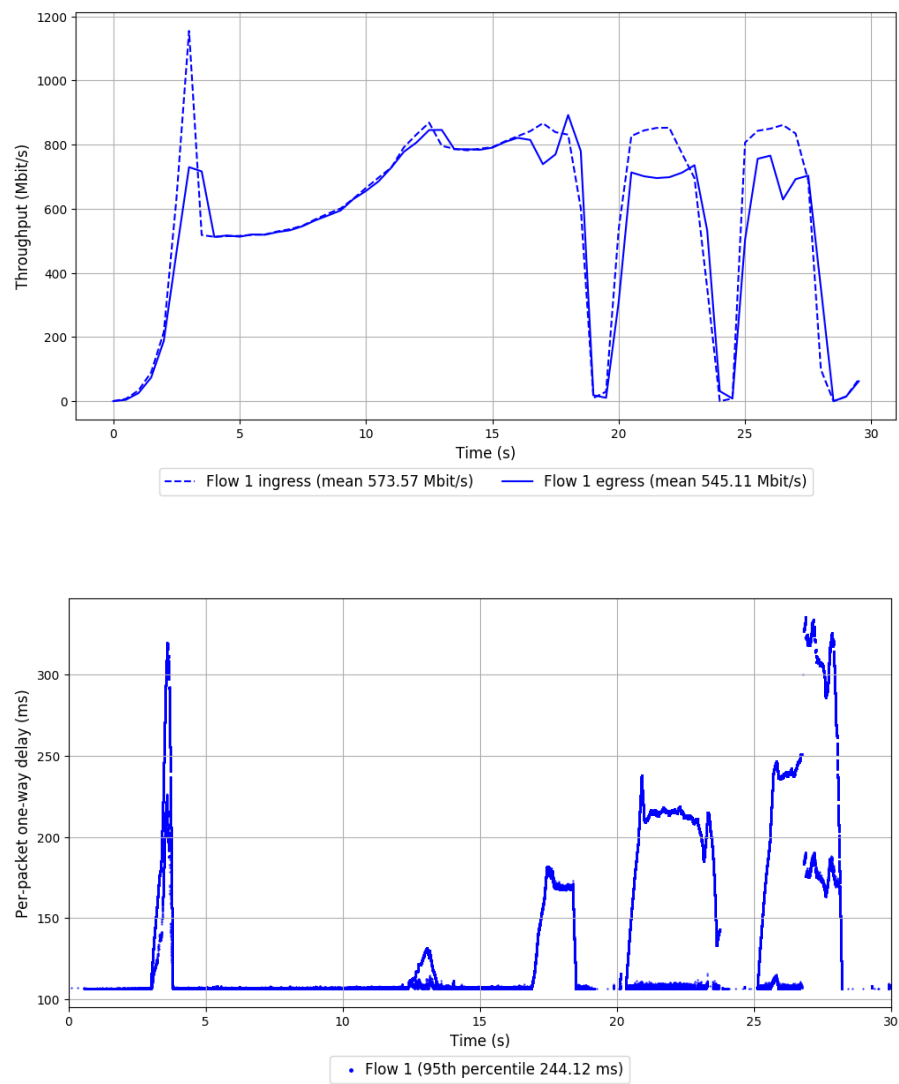
-- Flow 1:

Average throughput: 545.11 Mbit/s

95th percentile per-packet one-way delay: 244.119 ms

Loss rate: 4.97%

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2017-10-10 19:47:23

End at: 2017-10-10 19:47:53

Below is generated by plot.py at 2017-10-10 22:17:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 444.19 Mbit/s

95th percentile per-packet one-way delay: 218.201 ms

Loss rate: 2.99%

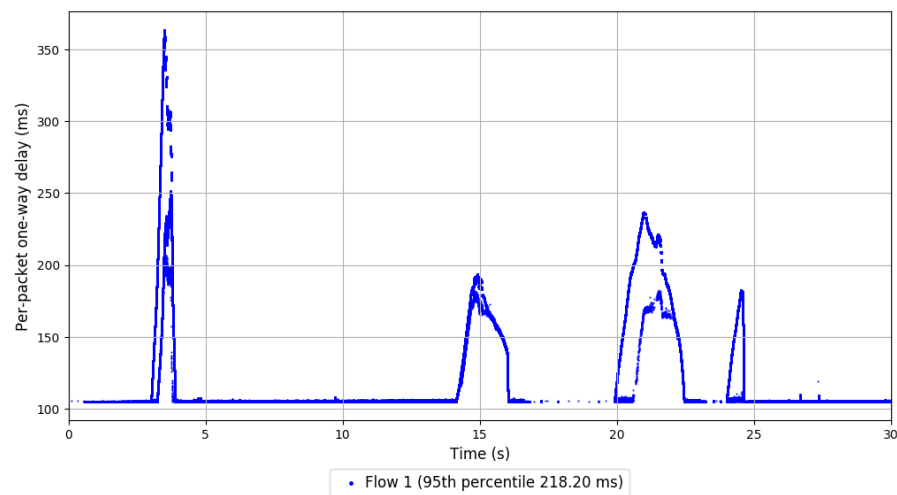
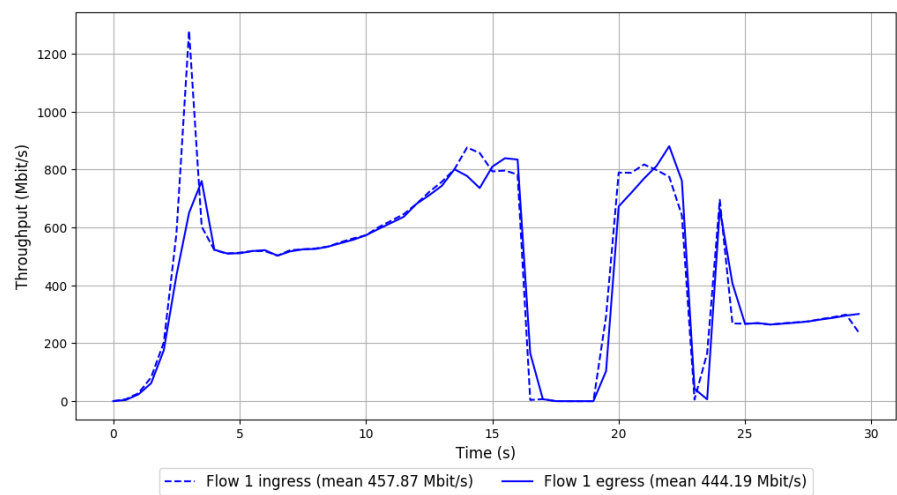
-- Flow 1:

Average throughput: 444.19 Mbit/s

95th percentile per-packet one-way delay: 218.201 ms

Loss rate: 2.99%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2017-10-10 19:58:06

End at: 2017-10-10 19:58:36

Below is generated by plot.py at 2017-10-10 22:18:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 672.35 Mbit/s

95th percentile per-packet one-way delay: 179.171 ms

Loss rate: 1.74%

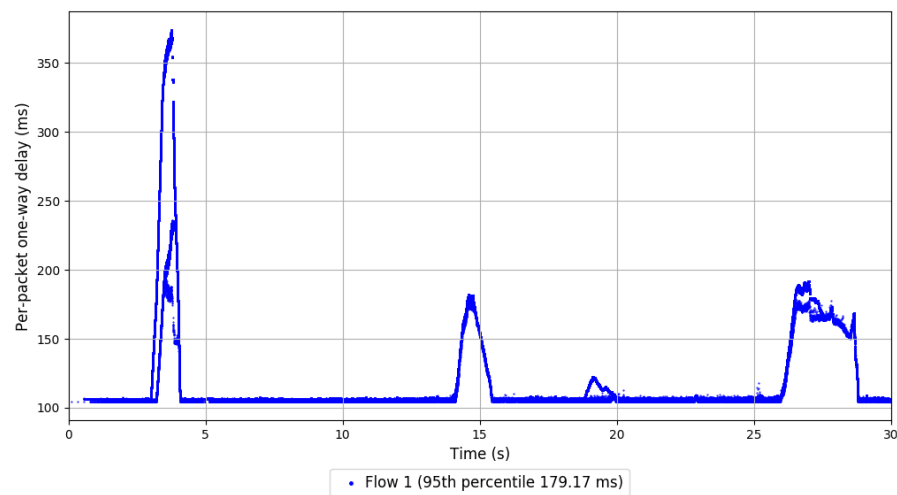
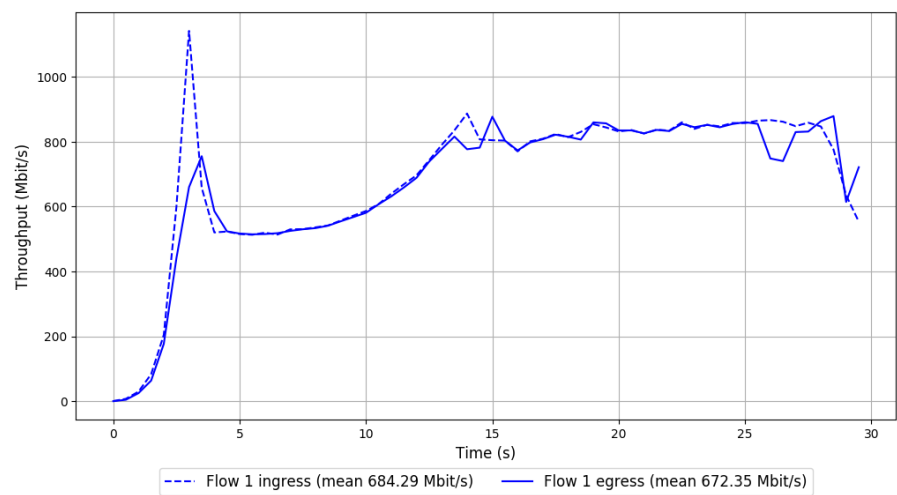
-- Flow 1:

Average throughput: 672.35 Mbit/s

95th percentile per-packet one-way delay: 179.171 ms

Loss rate: 1.74%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2017-10-10 20:09:15

End at: 2017-10-10 20:09:45

Below is generated by plot.py at 2017-10-10 22:18:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 666.02 Mbit/s

95th percentile per-packet one-way delay: 186.701 ms

Loss rate: 2.02%

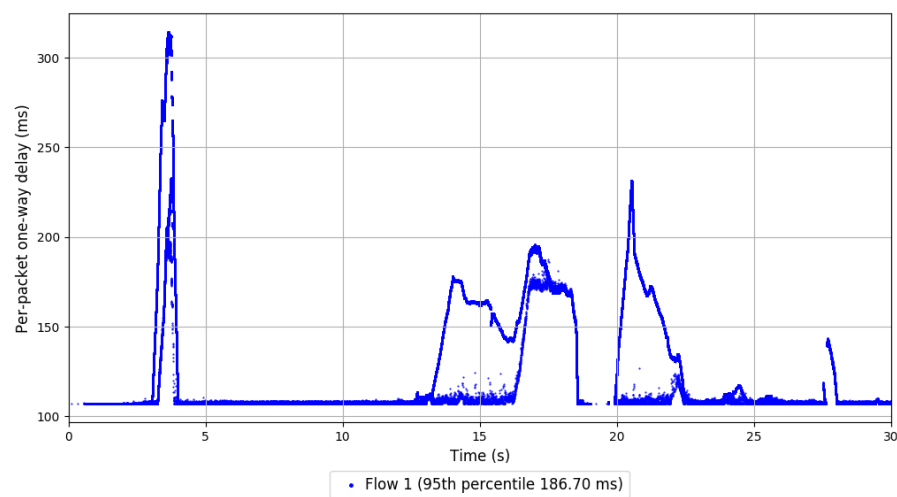
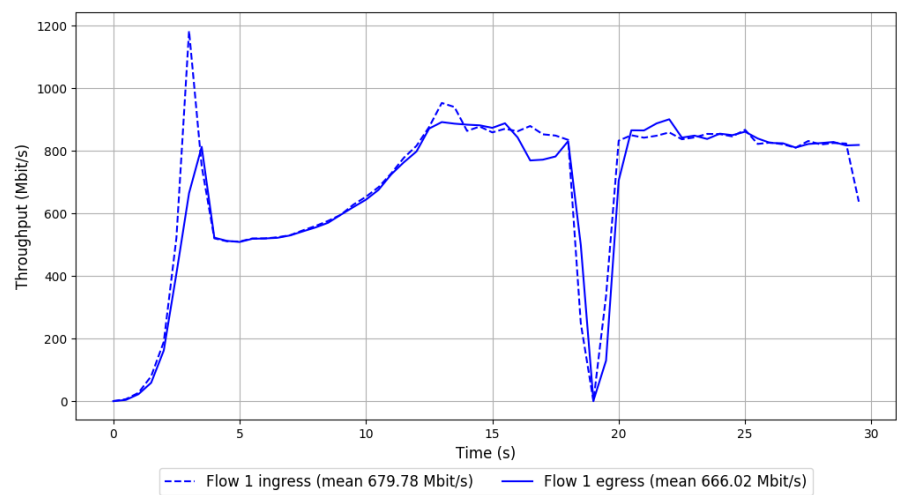
-- Flow 1:

Average throughput: 666.02 Mbit/s

95th percentile per-packet one-way delay: 186.701 ms

Loss rate: 2.02%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2017-10-10 20:20:15

End at: 2017-10-10 20:20:45

Below is generated by plot.py at 2017-10-10 22:18:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 631.37 Mbit/s

95th percentile per-packet one-way delay: 174.375 ms

Loss rate: 2.68%

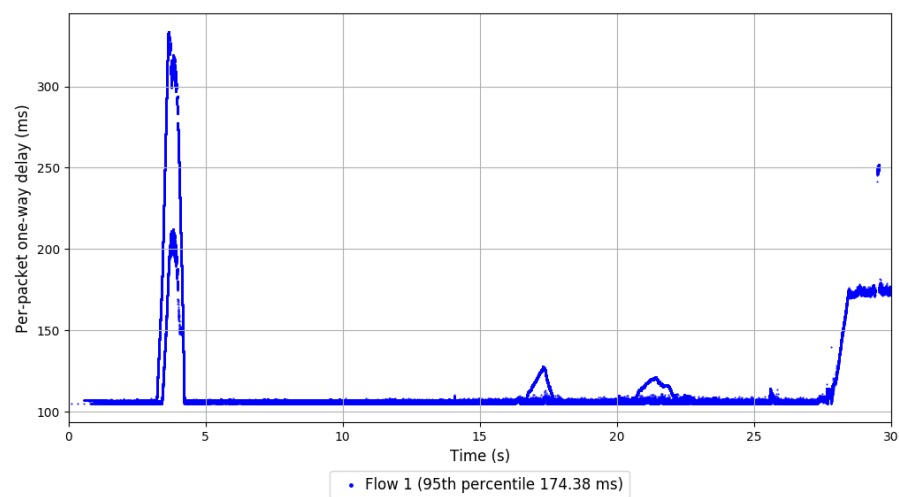
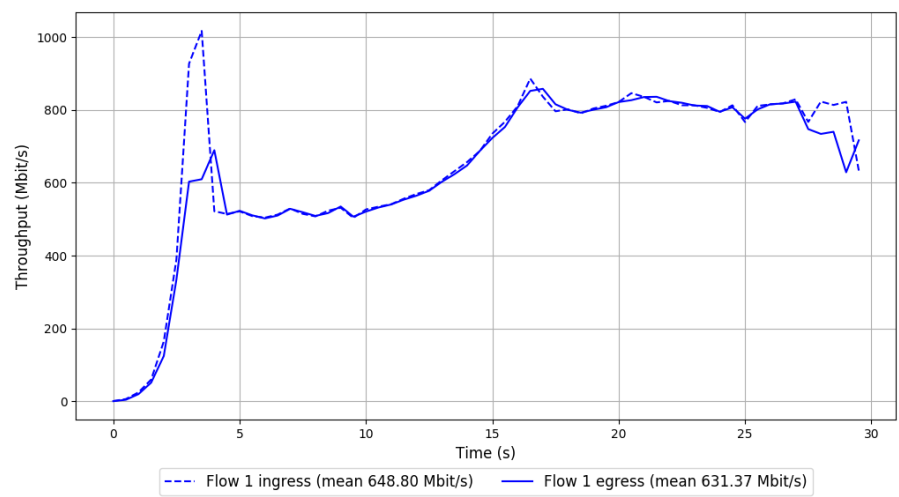
-- Flow 1:

Average throughput: 631.37 Mbit/s

95th percentile per-packet one-way delay: 174.375 ms

Loss rate: 2.68%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2017-10-10 20:31:50

End at: 2017-10-10 20:32:20

Below is generated by plot.py at 2017-10-10 22:18:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 622.58 Mbit/s

95th percentile per-packet one-way delay: 167.629 ms

Loss rate: 1.28%

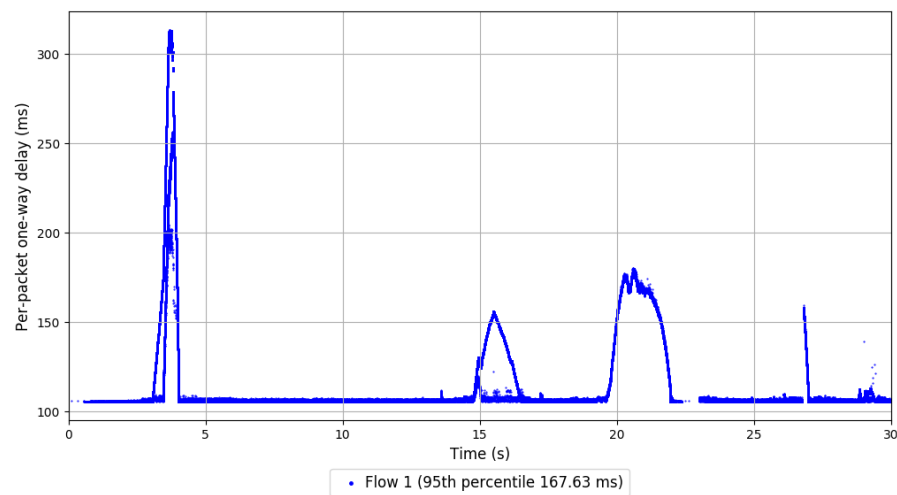
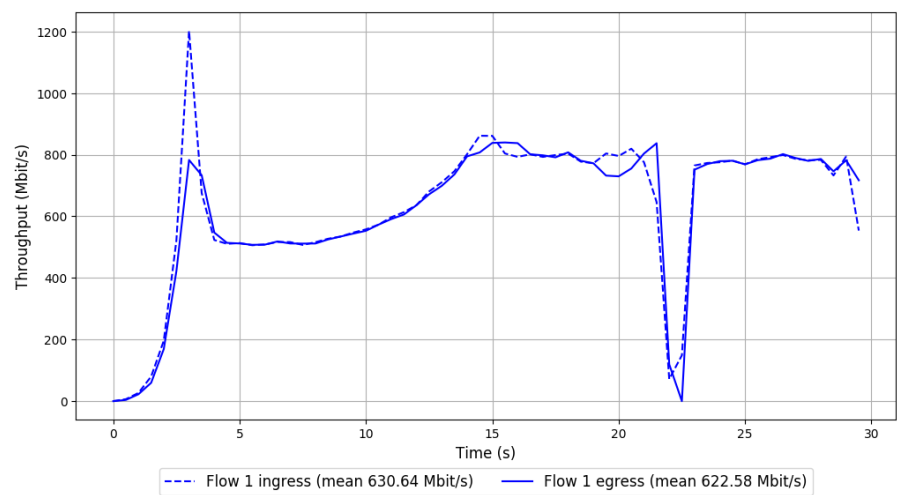
-- Flow 1:

Average throughput: 622.58 Mbit/s

95th percentile per-packet one-way delay: 167.629 ms

Loss rate: 1.28%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2017-10-10 20:42:59

End at: 2017-10-10 20:43:29

Below is generated by plot.py at 2017-10-10 22:18:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 647.27 Mbit/s

95th percentile per-packet one-way delay: 181.297 ms

Loss rate: 0.99%

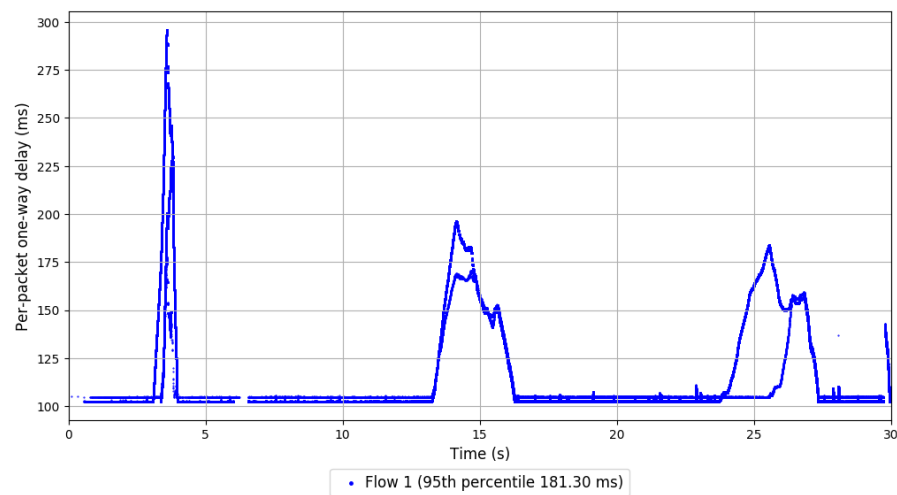
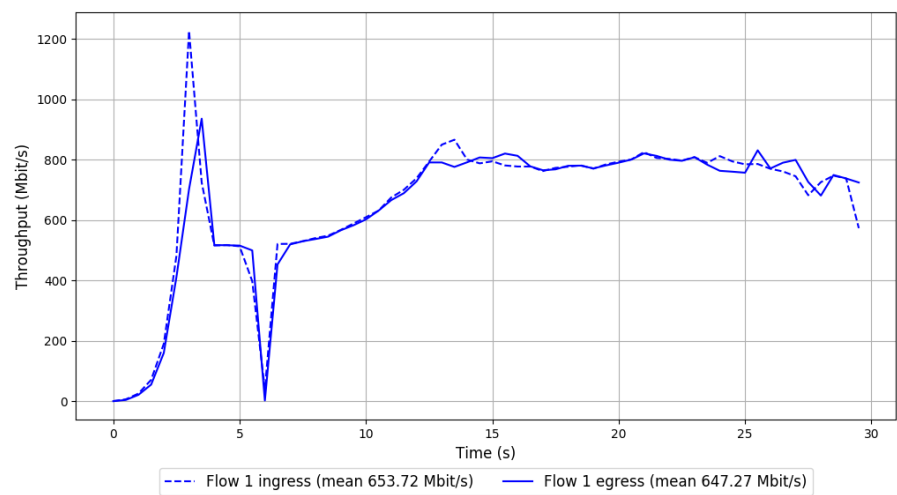
-- Flow 1:

Average throughput: 647.27 Mbit/s

95th percentile per-packet one-way delay: 181.297 ms

Loss rate: 0.99%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2017-10-10 20:54:18

End at: 2017-10-10 20:54:48

Below is generated by plot.py at 2017-10-10 22:19:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 646.78 Mbit/s

95th percentile per-packet one-way delay: 170.820 ms

Loss rate: 2.33%

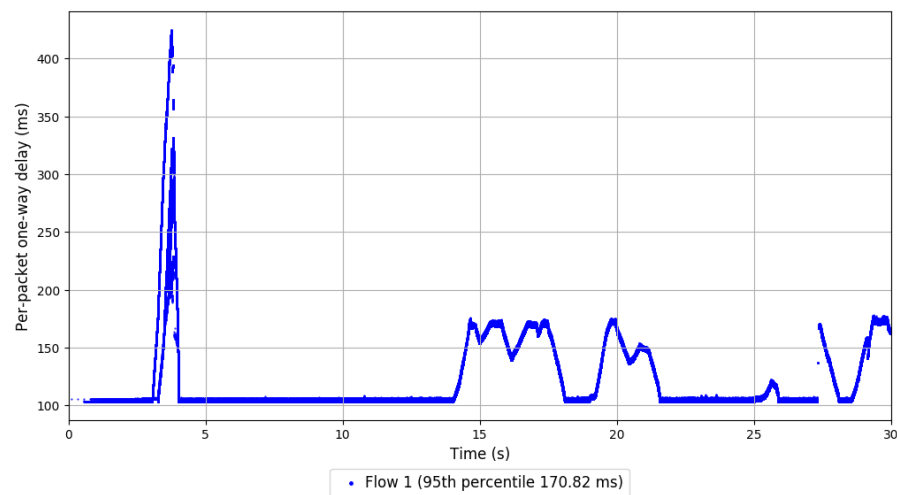
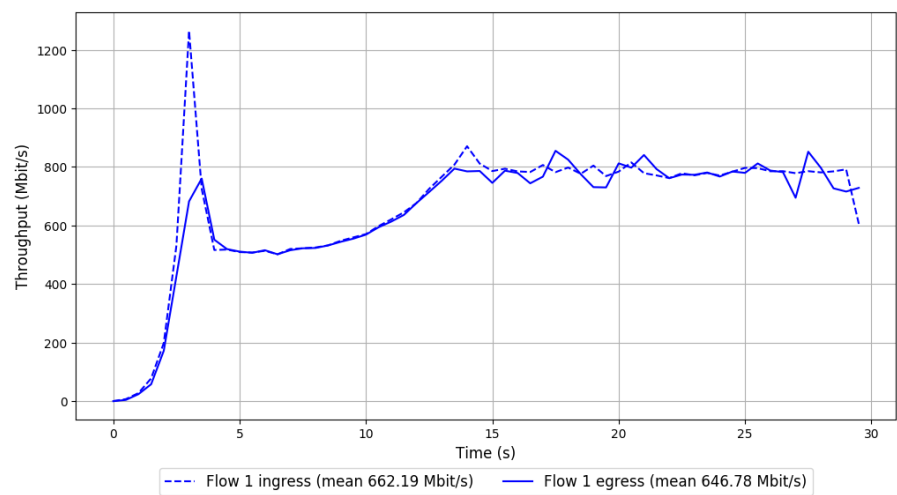
-- Flow 1:

Average throughput: 646.78 Mbit/s

95th percentile per-packet one-way delay: 170.820 ms

Loss rate: 2.33%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2017-10-10 21:05:42

End at: 2017-10-10 21:06:12

Below is generated by plot.py at 2017-10-10 22:27:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 631.15 Mbit/s

95th percentile per-packet one-way delay: 186.132 ms

Loss rate: 2.61%

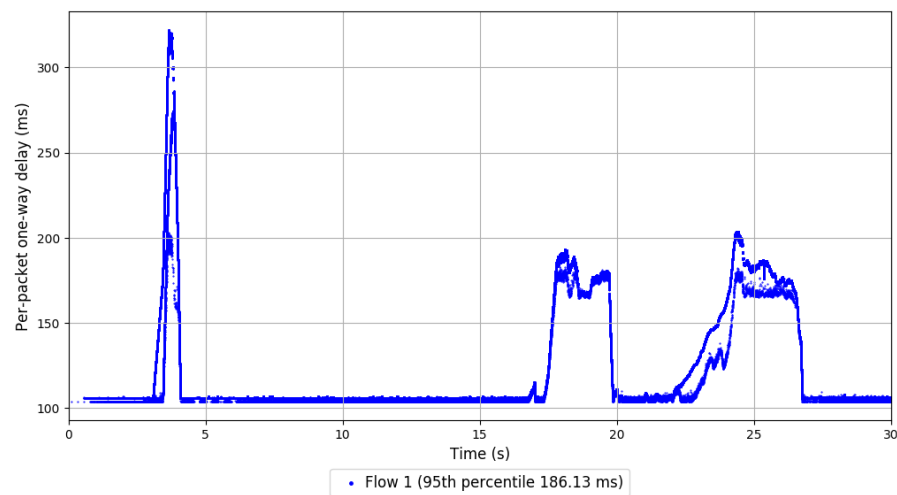
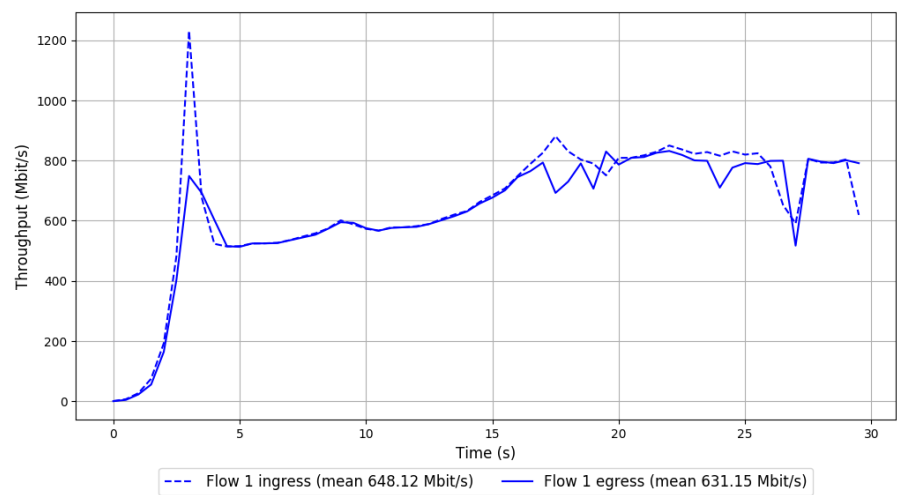
-- Flow 1:

Average throughput: 631.15 Mbit/s

95th percentile per-packet one-way delay: 186.132 ms

Loss rate: 2.61%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2017-10-10 21:17:03

End at: 2017-10-10 21:17:33

Below is generated by plot.py at 2017-10-10 22:27:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 543.17 Mbit/s

95th percentile per-packet one-way delay: 197.155 ms

Loss rate: 2.66%

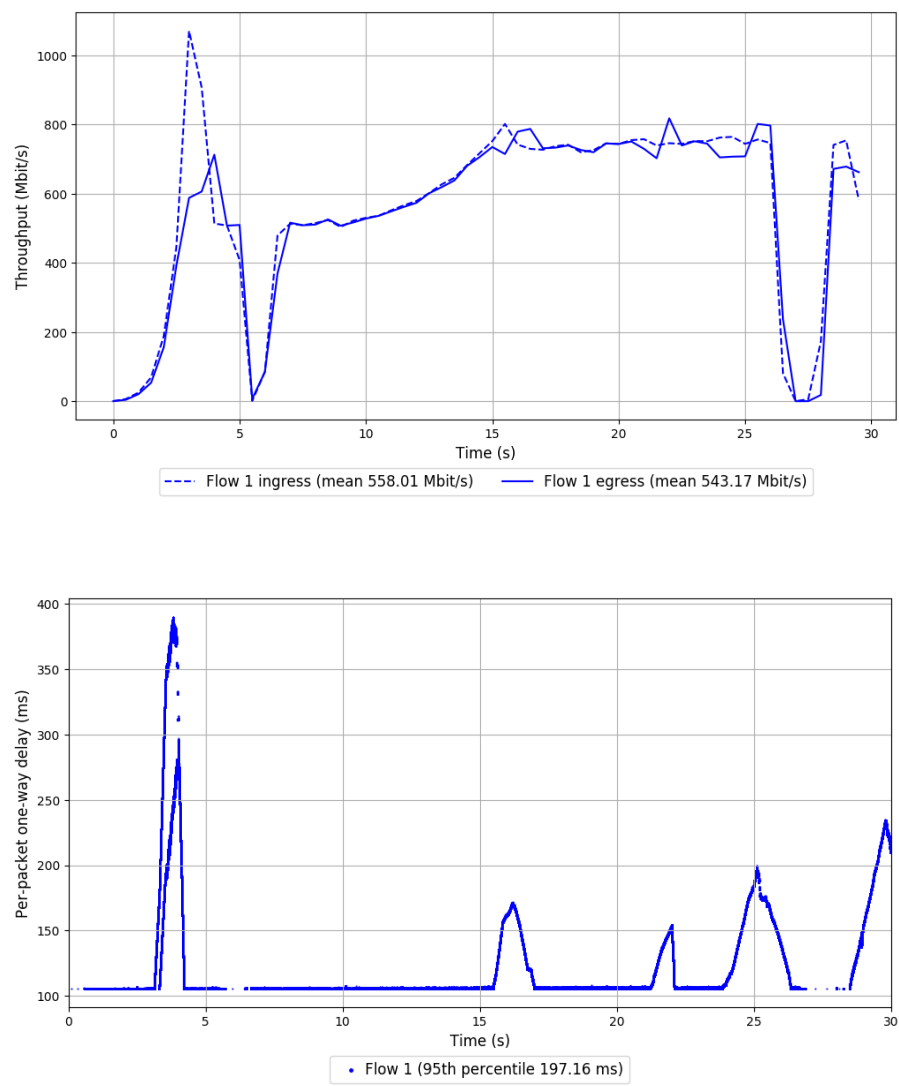
-- Flow 1:

Average throughput: 543.17 Mbit/s

95th percentile per-packet one-way delay: 197.155 ms

Loss rate: 2.66%

Run 10: Report of PCC — Data Link

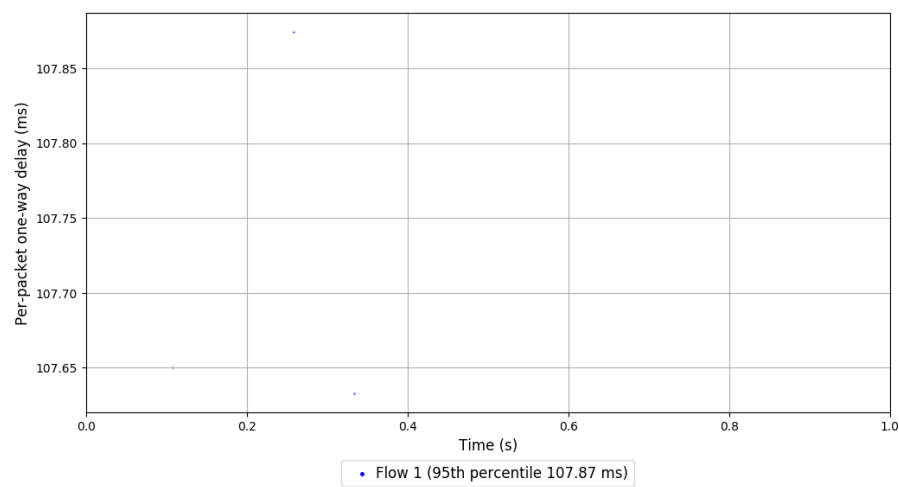
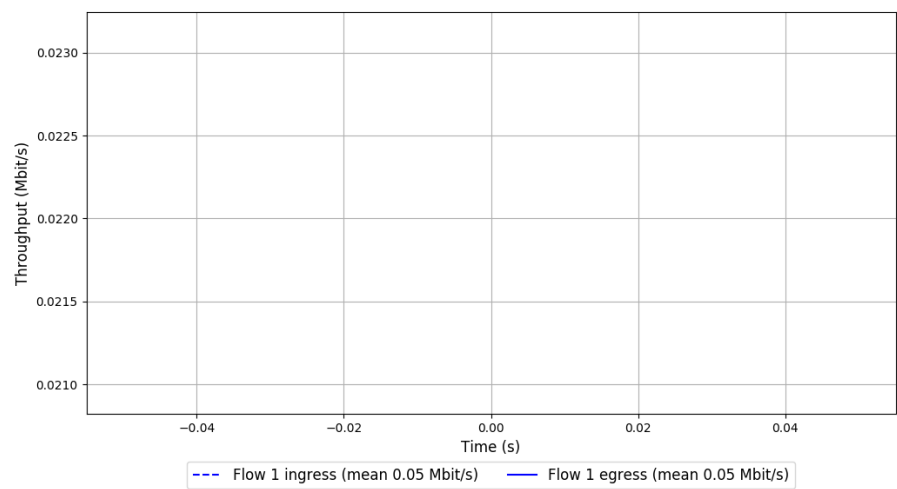


Run 1: Statistics of QUIC Cubic

Start at: 2017-10-10 19:29:03

End at: 2017-10-10 19:29:33

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2017-10-10 19:40:35

End at: 2017-10-10 19:41:05

Below is generated by plot.py at 2017-10-10 22:27:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 69.30 Mbit/s

95th percentile per-packet one-way delay: 105.444 ms

Loss rate: 0.01%

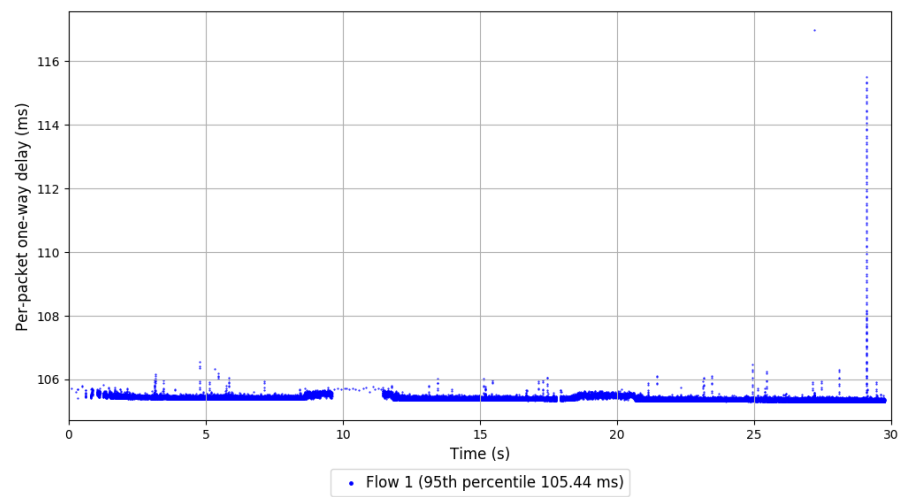
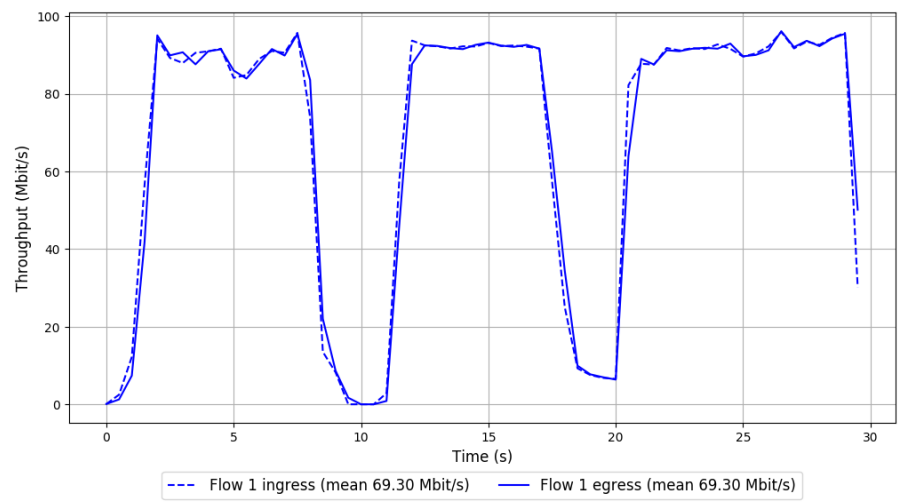
-- Flow 1:

Average throughput: 69.30 Mbit/s

95th percentile per-packet one-way delay: 105.444 ms

Loss rate: 0.01%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2017-10-10 19:52:08

End at: 2017-10-10 19:52:38

Below is generated by plot.py at 2017-10-10 22:27:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.50 Mbit/s

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

Loss rate: 0.00%

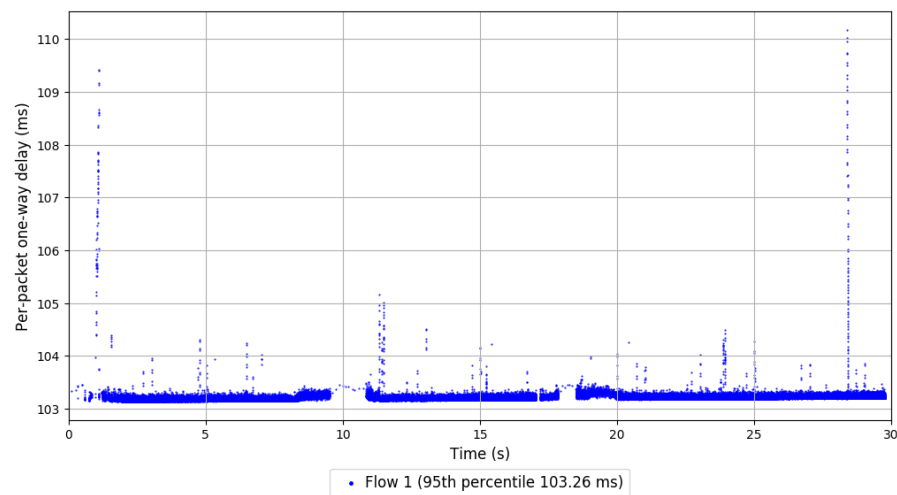
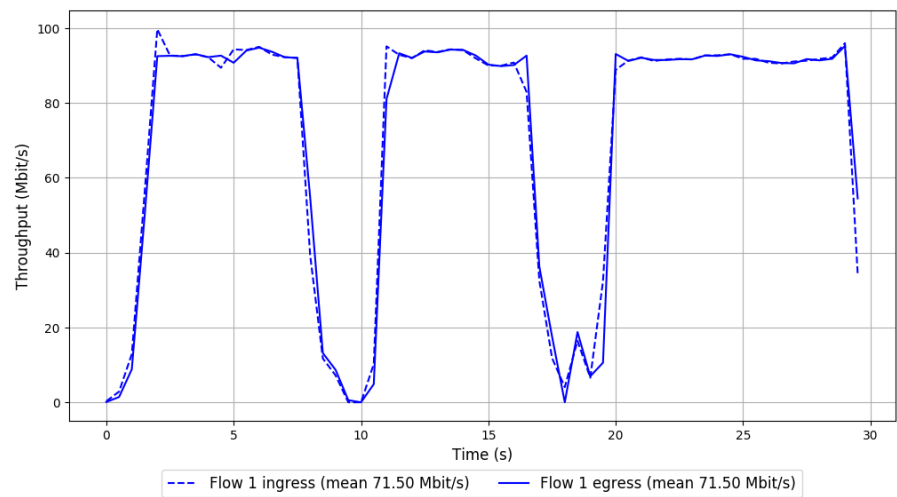
-- Flow 1:

Average throughput: 71.50 Mbit/s

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

Loss rate: 0.00%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2017-10-10 20:02:59

End at: 2017-10-10 20:03:29

Below is generated by plot.py at 2017-10-10 22:27:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 79.50 Mbit/s

95th percentile per-packet one-way delay: 105.090 ms

Loss rate: 0.00%

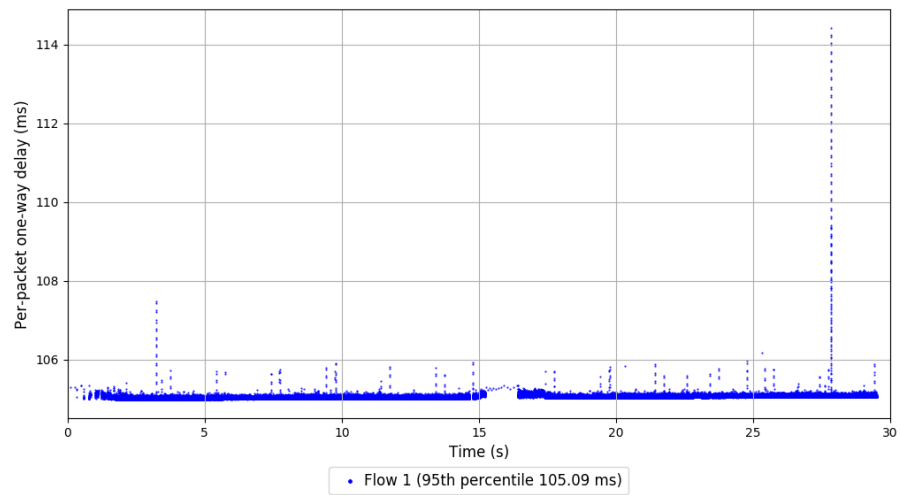
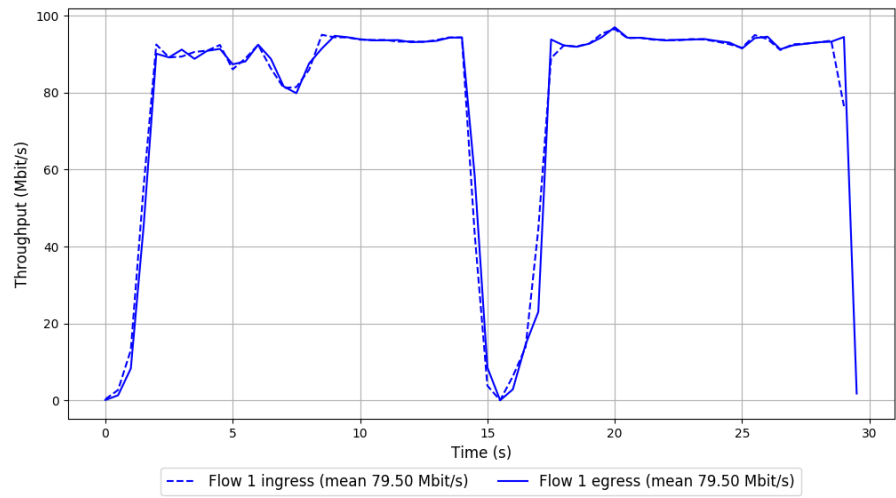
-- Flow 1:

Average throughput: 79.50 Mbit/s

95th percentile per-packet one-way delay: 105.090 ms

Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2017-10-10 20:14:09

End at: 2017-10-10 20:14:39

Below is generated by plot.py at 2017-10-10 22:27:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 59.30 Mbit/s

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

Loss rate: 0.00%

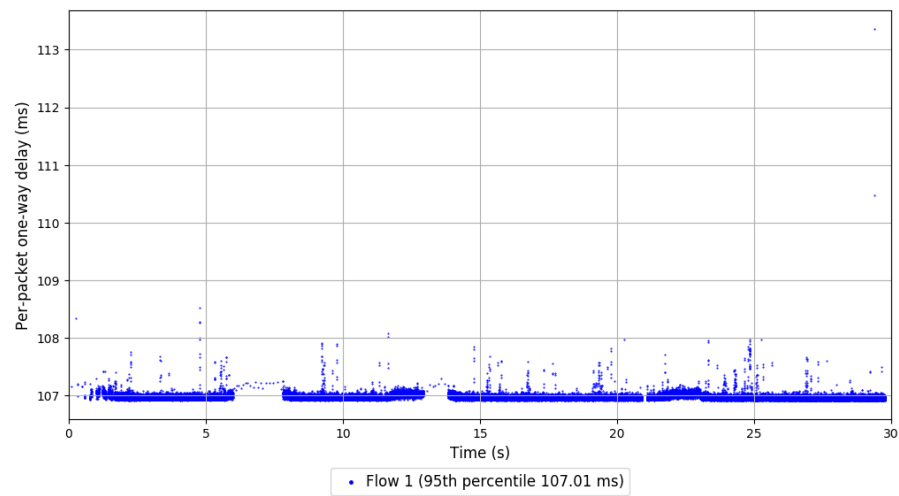
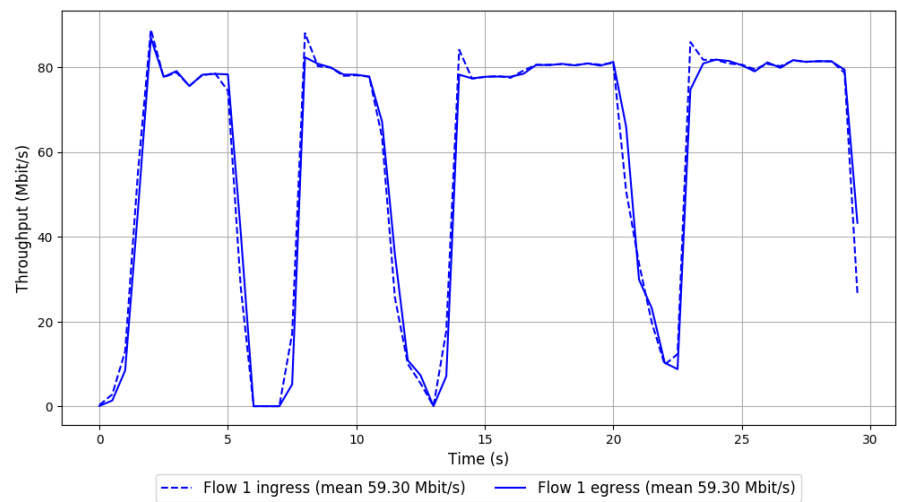
-- Flow 1:

Average throughput: 59.30 Mbit/s

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

Loss rate: 0.00%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2017-10-10 20:25:10

End at: 2017-10-10 20:25:40

Below is generated by plot.py at 2017-10-10 22:27:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 68.52 Mbit/s

95th percentile per-packet one-way delay: 106.344 ms

Loss rate: 0.00%

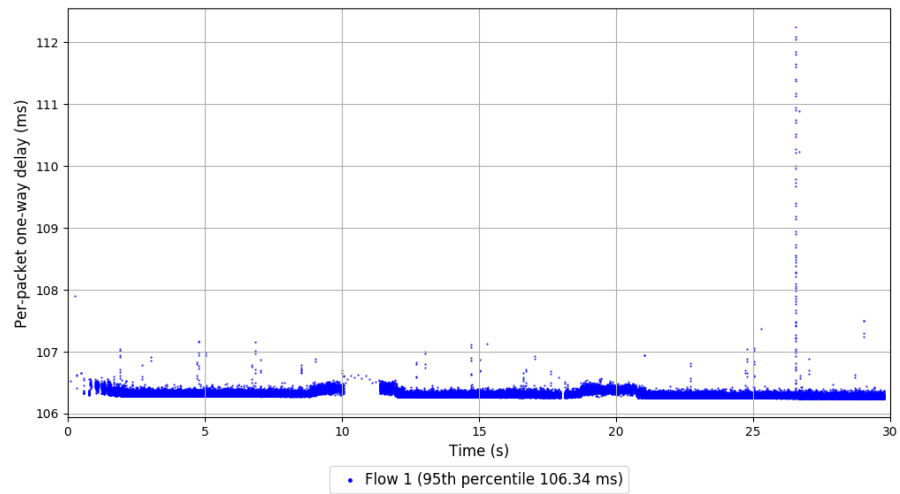
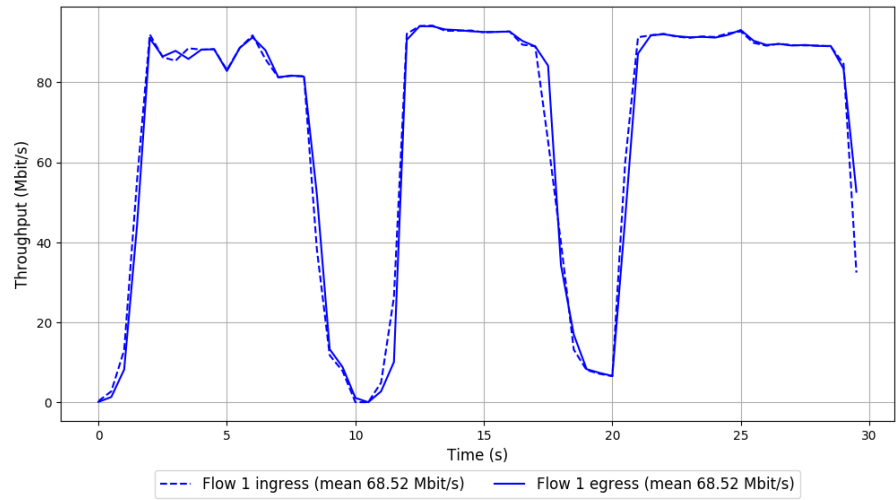
-- Flow 1:

Average throughput: 68.52 Mbit/s

95th percentile per-packet one-way delay: 106.344 ms

Loss rate: 0.00%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2017-10-10 20:36:43

End at: 2017-10-10 20:37:13

Below is generated by plot.py at 2017-10-10 22:27:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 66.53 Mbit/s

95th percentile per-packet one-way delay: 101.437 ms

Loss rate: 0.00%

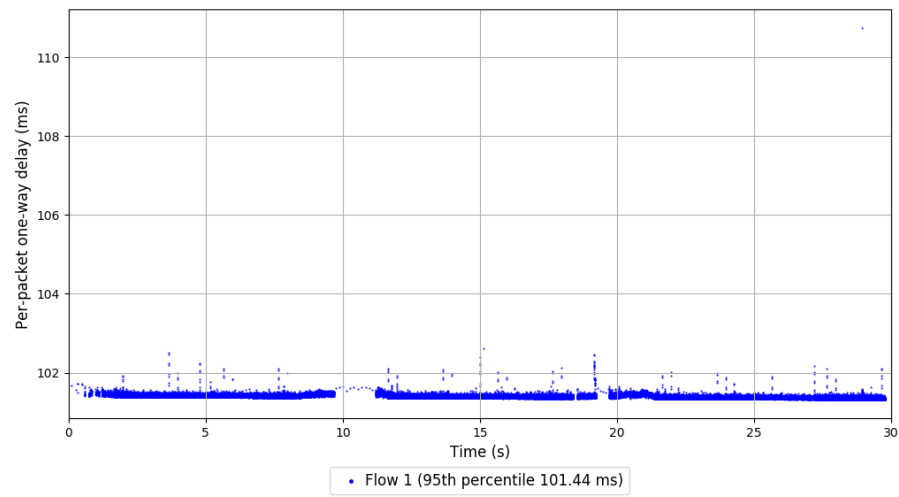
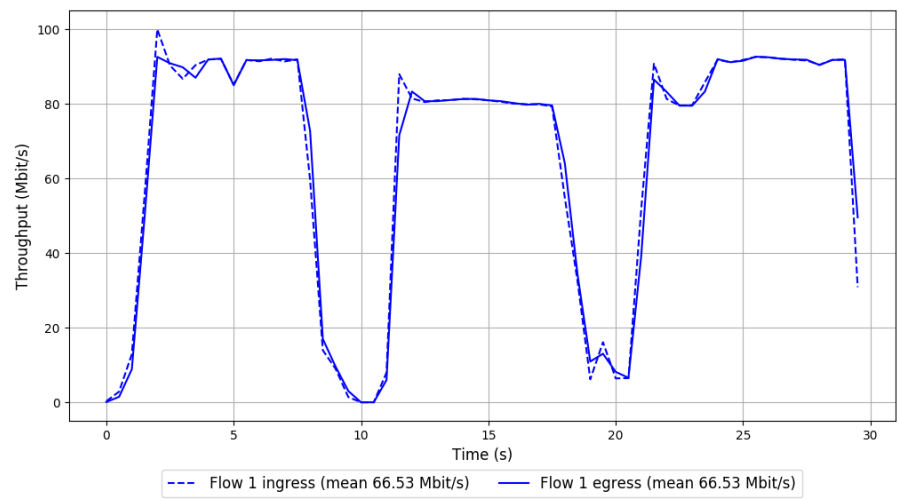
-- Flow 1:

Average throughput: 66.53 Mbit/s

95th percentile per-packet one-way delay: 101.437 ms

Loss rate: 0.00%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2017-10-10 20:47:52

End at: 2017-10-10 20:48:22

Below is generated by plot.py at 2017-10-10 22:27:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.22 Mbit/s

95th percentile per-packet one-way delay: 103.064 ms

Loss rate: 0.00%

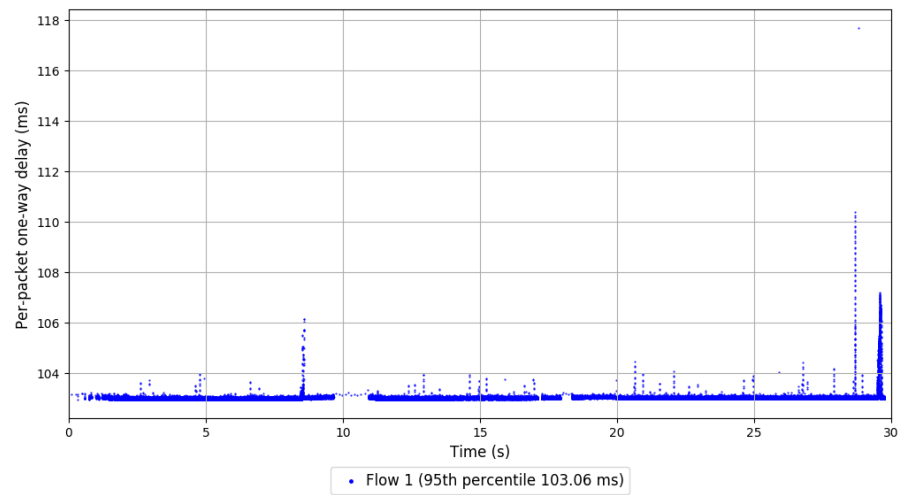
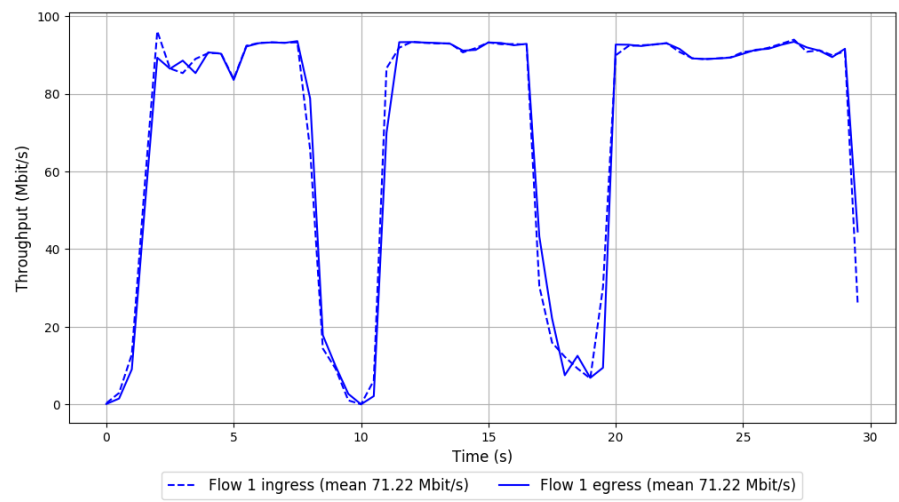
-- Flow 1:

Average throughput: 71.22 Mbit/s

95th percentile per-packet one-way delay: 103.064 ms

Loss rate: 0.00%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2017-10-10 20:59:12

End at: 2017-10-10 20:59:42

Below is generated by plot.py at 2017-10-10 22:27:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 56.78 Mbit/s

95th percentile per-packet one-way delay: 103.450 ms

Loss rate: 0.00%

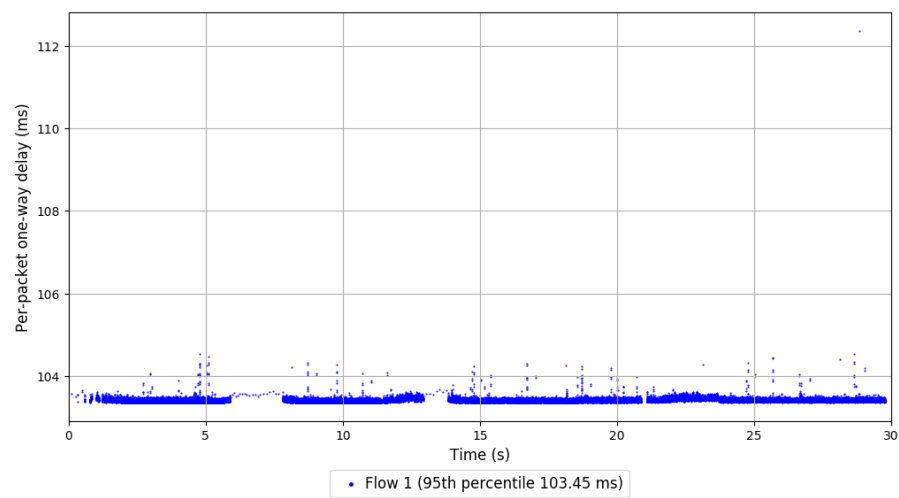
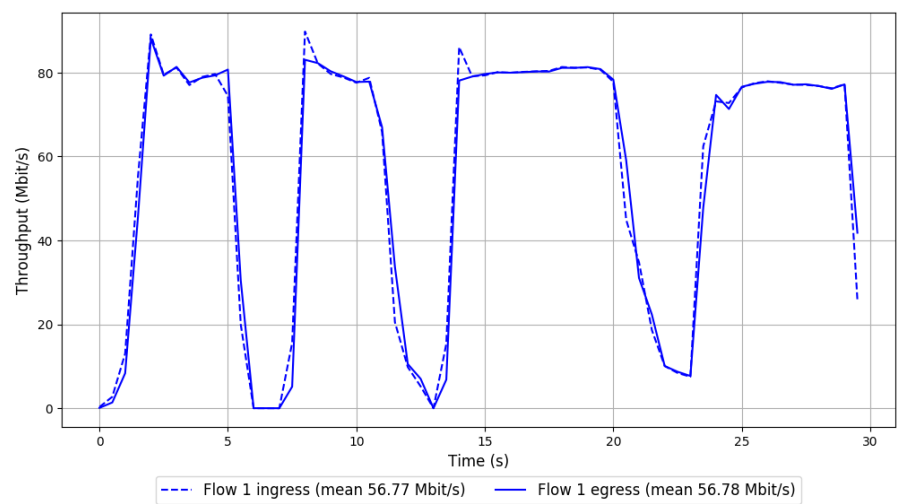
-- Flow 1:

Average throughput: 56.78 Mbit/s

95th percentile per-packet one-way delay: 103.450 ms

Loss rate: 0.00%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2017-10-10 21:10:36

End at: 2017-10-10 21:11:06

Below is generated by plot.py at 2017-10-10 22:27:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 69.27 Mbit/s

95th percentile per-packet one-way delay: 102.687 ms

Loss rate: 0.00%

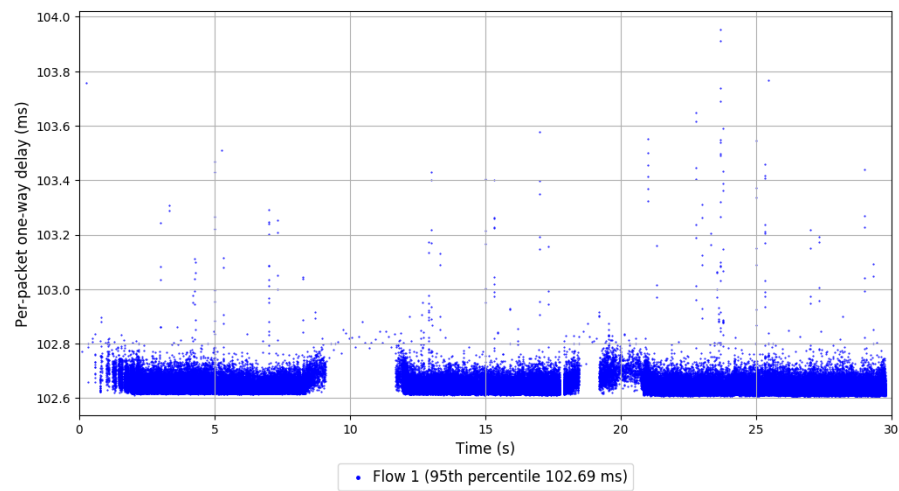
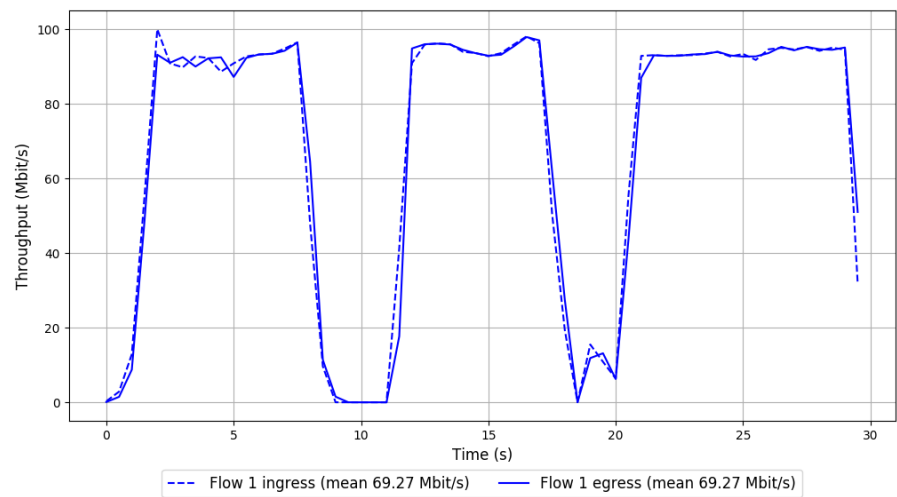
-- Flow 1:

Average throughput: 69.27 Mbit/s

95th percentile per-packet one-way delay: 102.687 ms

Loss rate: 0.00%

Run 10: Report of QUIC Cubic — Data Link

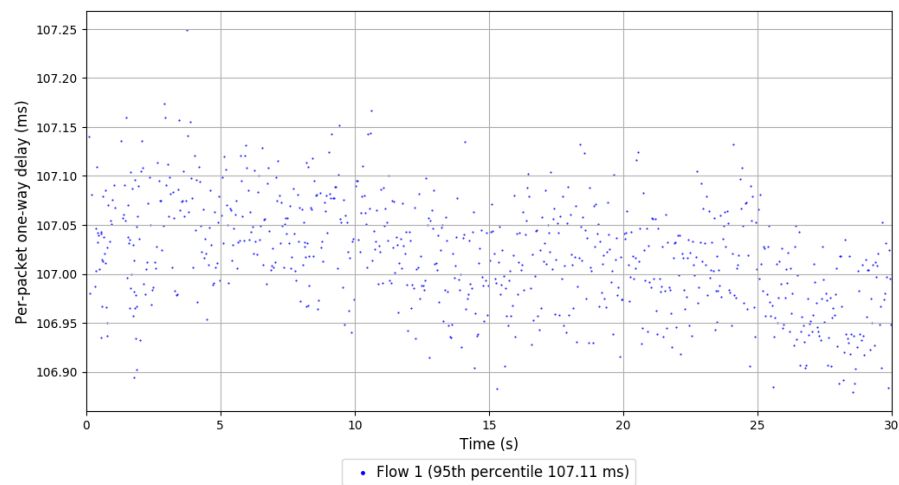
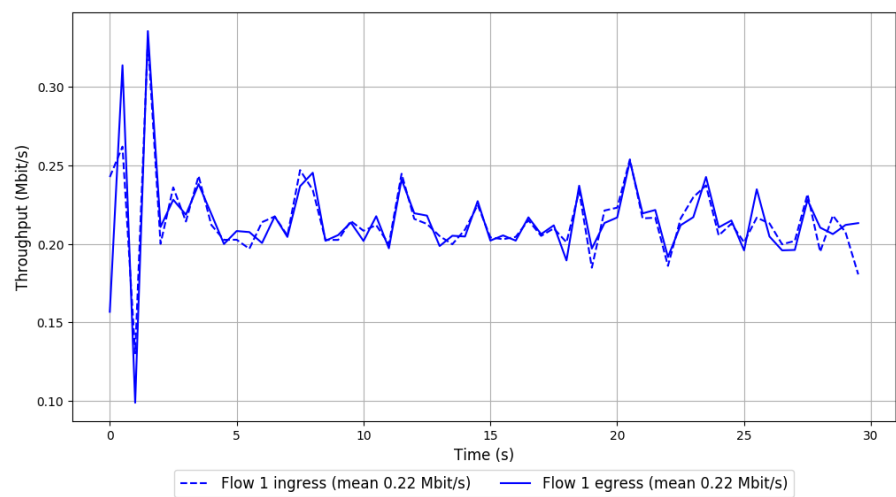


```
Run 1: Statistics of SCReAM

Start at: 2017-10-10 19:35:05
End at: 2017-10-10 19:35:35

# Below is generated by plot.py at 2017-10-10 22:27:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 107.108 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 107.108 ms
Loss rate: 0.13%
```

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SCReAM

Start at: 2017-10-10 19:46:43

End at: 2017-10-10 19:47:13

Below is generated by plot.py at 2017-10-10 22:27:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 102.756 ms

Loss rate: 0.00%

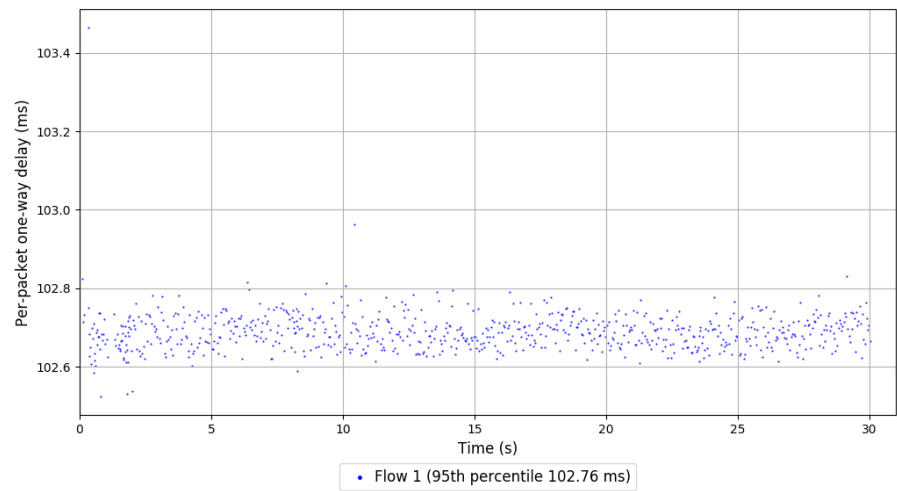
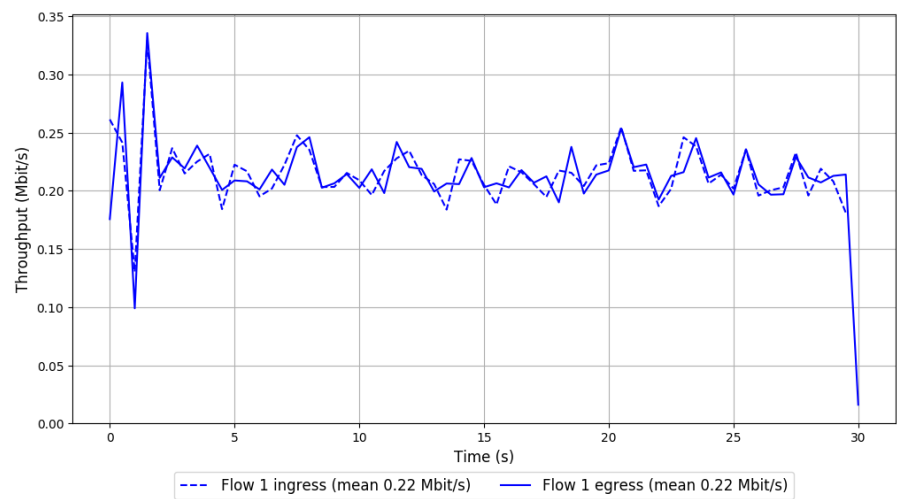
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 102.756 ms

Loss rate: 0.00%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2017-10-10 19:57:26

End at: 2017-10-10 19:57:56

Below is generated by plot.py at 2017-10-10 22:27:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 106.431 ms

Loss rate: 0.00%

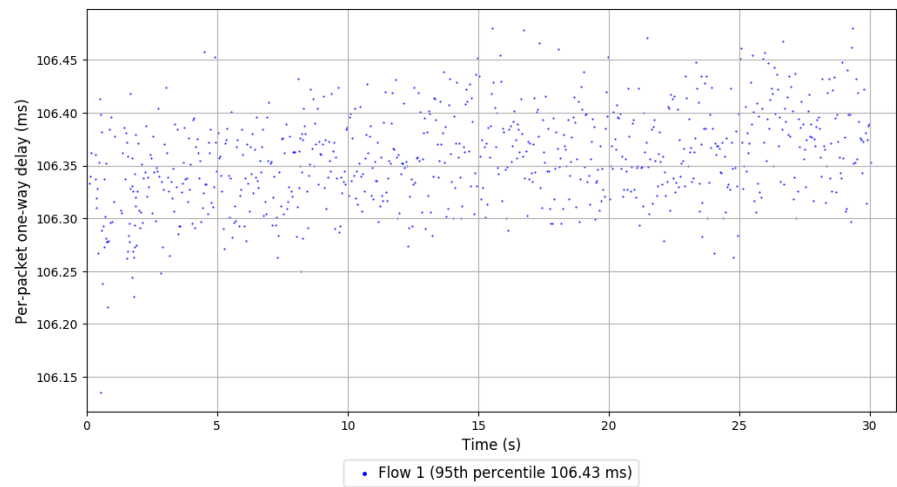
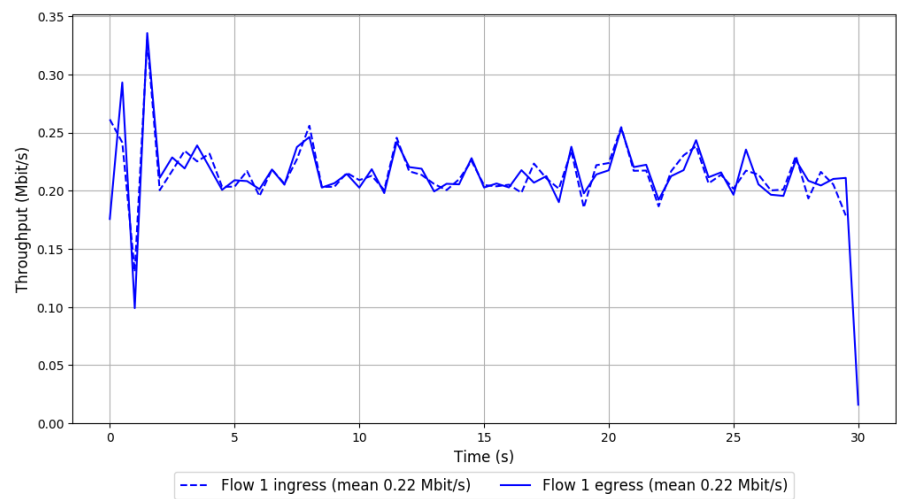
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 106.431 ms

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2017-10-10 20:08:34

End at: 2017-10-10 20:09:04

Below is generated by plot.py at 2017-10-10 22:27:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 105.329 ms

Loss rate: 0.00%

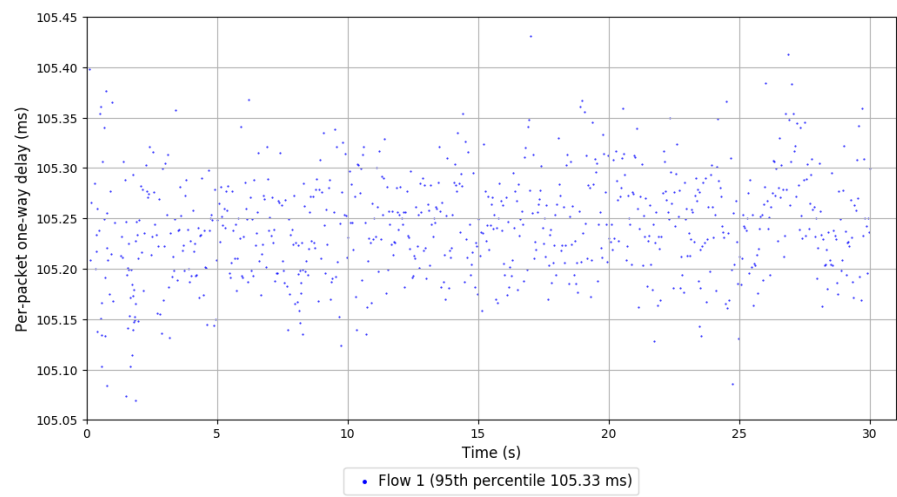
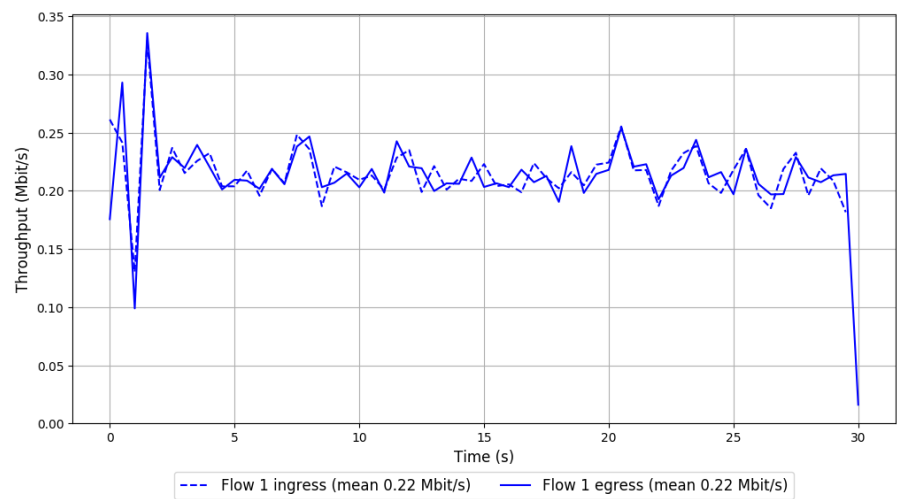
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 105.329 ms

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2017-10-10 20:19:35

End at: 2017-10-10 20:20:05

Below is generated by plot.py at 2017-10-10 22:27:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 106.964 ms

Loss rate: 0.00%

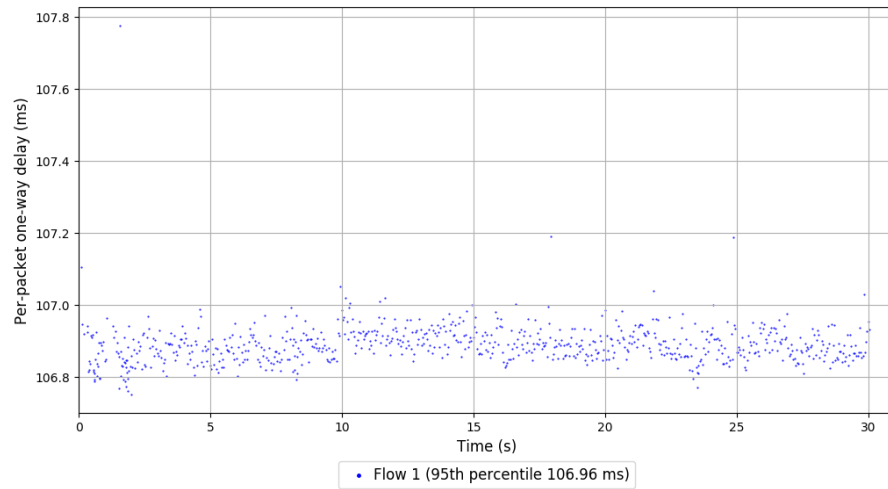
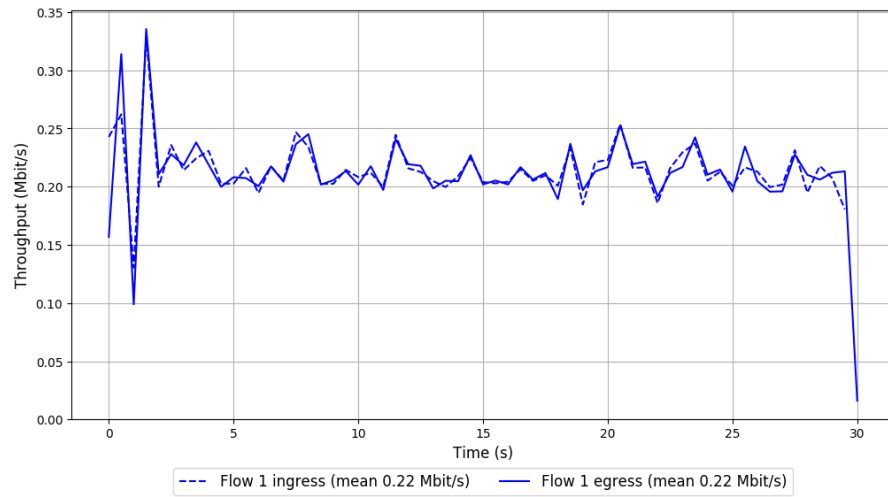
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 106.964 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2017-10-10 20:31:09

End at: 2017-10-10 20:31:39

Below is generated by plot.py at 2017-10-10 22:27:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 105.940 ms

Loss rate: 0.00%

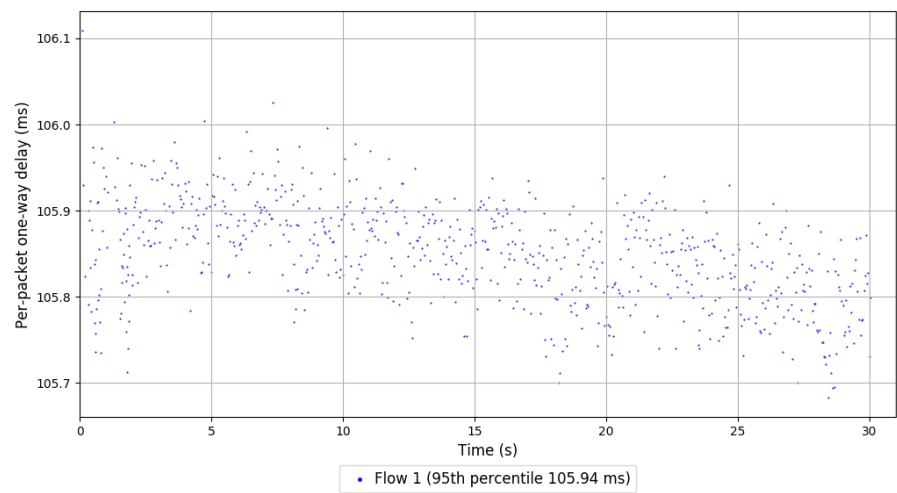
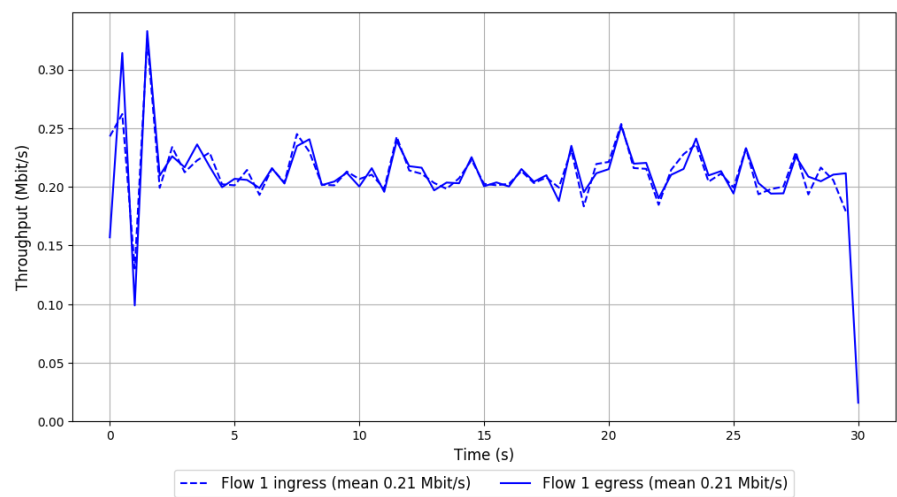
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 105.940 ms

Loss rate: 0.00%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2017-10-10 20:42:19

End at: 2017-10-10 20:42:49

Below is generated by plot.py at 2017-10-10 22:27:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 104.957 ms

Loss rate: 0.00%

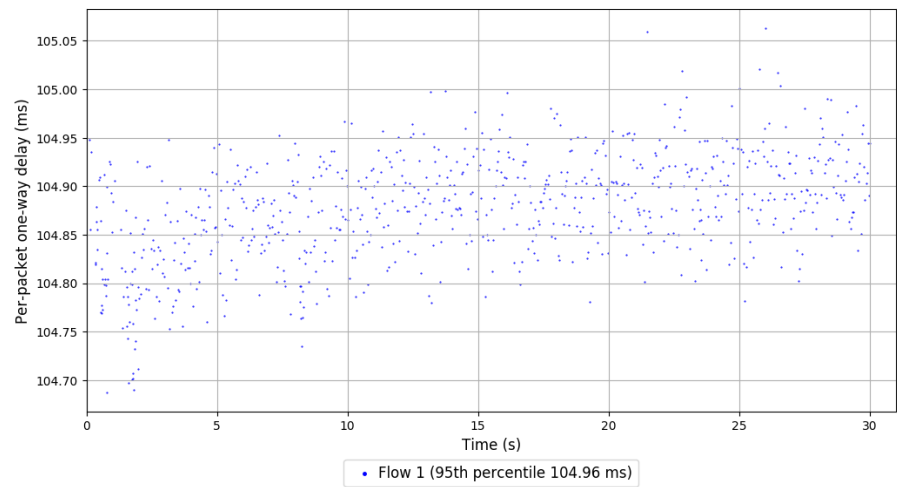
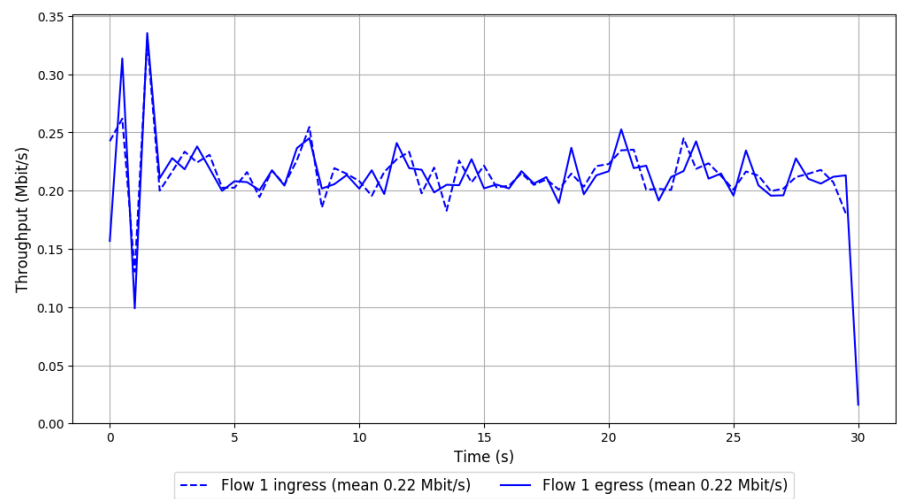
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 104.957 ms

Loss rate: 0.00%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2017-10-10 20:53:37

End at: 2017-10-10 20:54:07

Below is generated by plot.py at 2017-10-10 22:27:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 103.630 ms

Loss rate: 0.00%

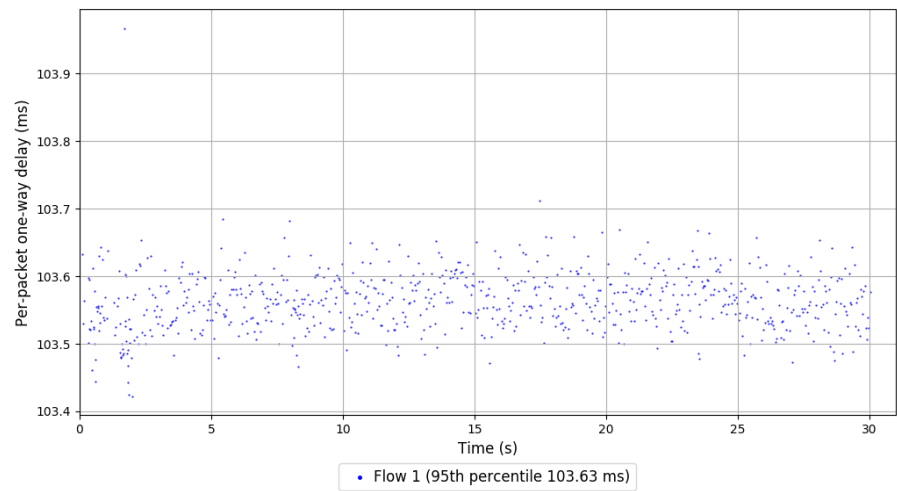
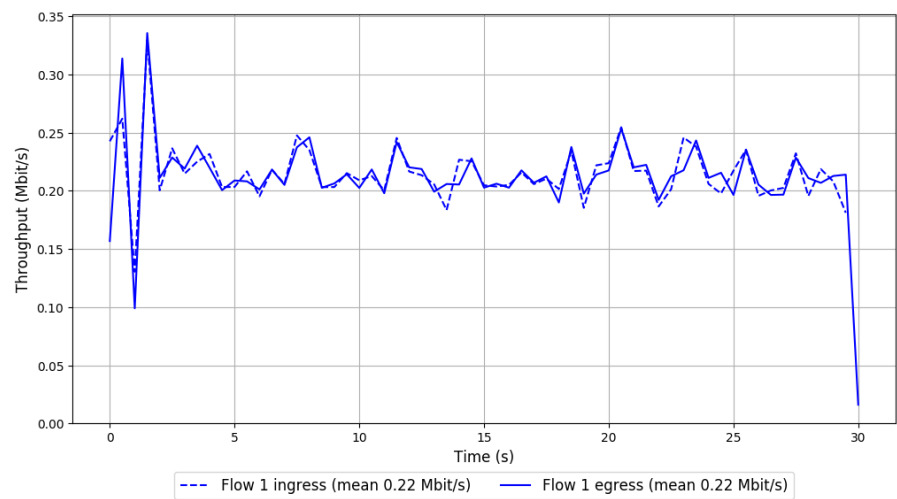
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 103.630 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2017-10-10 21:05:01

End at: 2017-10-10 21:05:31

Below is generated by plot.py at 2017-10-10 22:27:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 103.887 ms

Loss rate: 0.00%

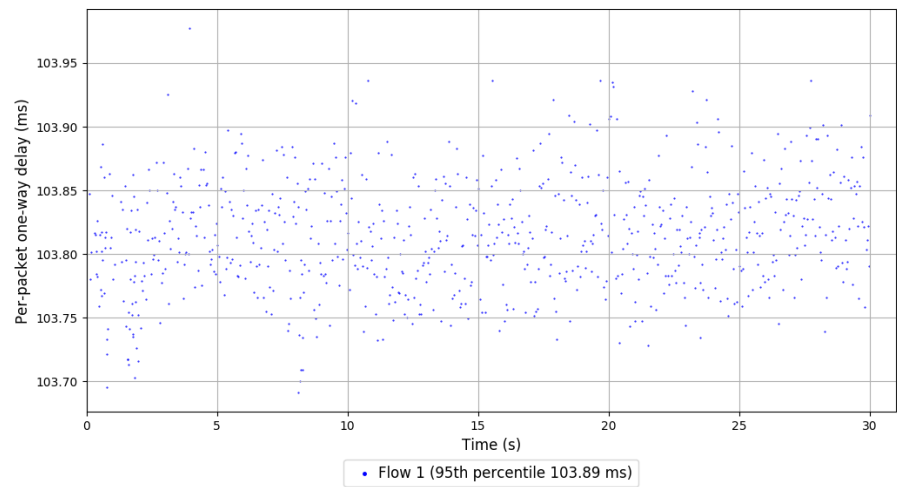
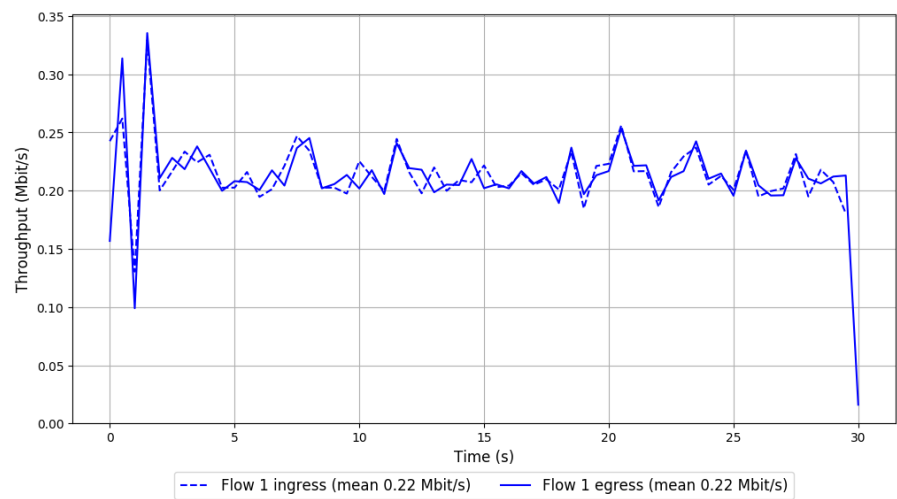
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 103.887 ms

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2017-10-10 21:16:22

End at: 2017-10-10 21:16:52

Below is generated by plot.py at 2017-10-10 22:27:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 103.549 ms

Loss rate: 0.00%

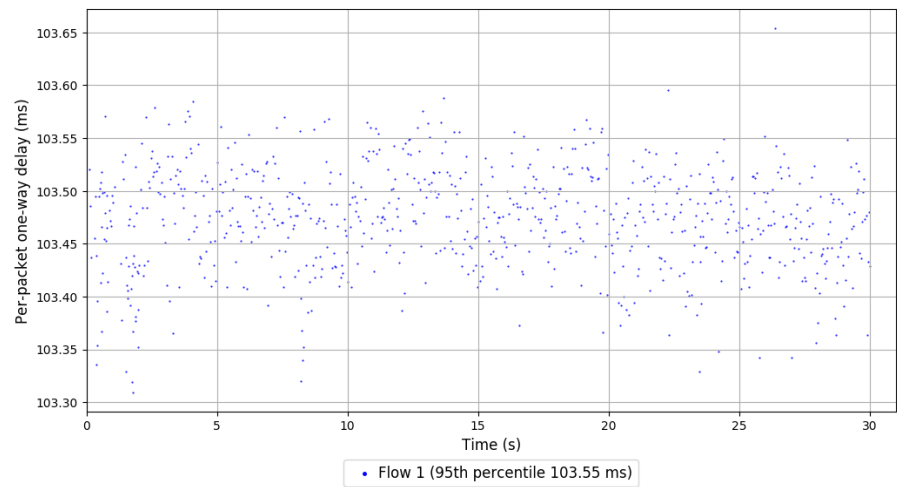
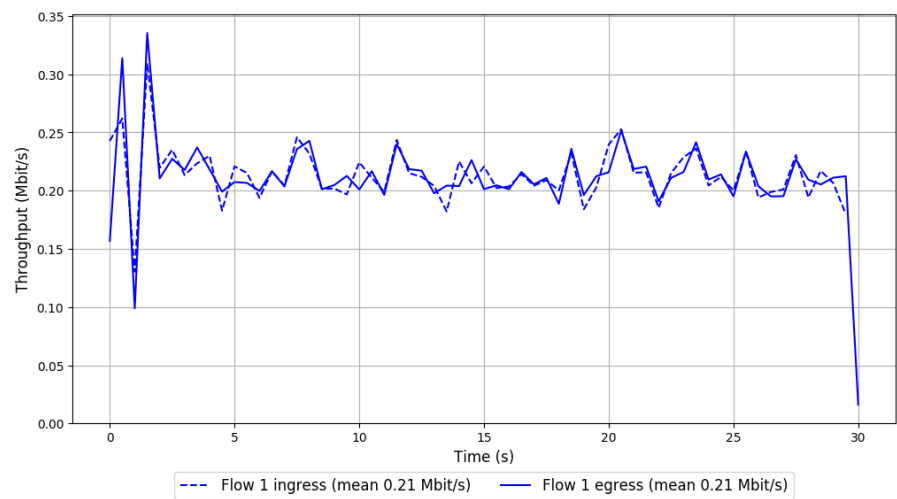
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 103.549 ms

Loss rate: 0.00%

Run 10: Report of SReAM — Data Link

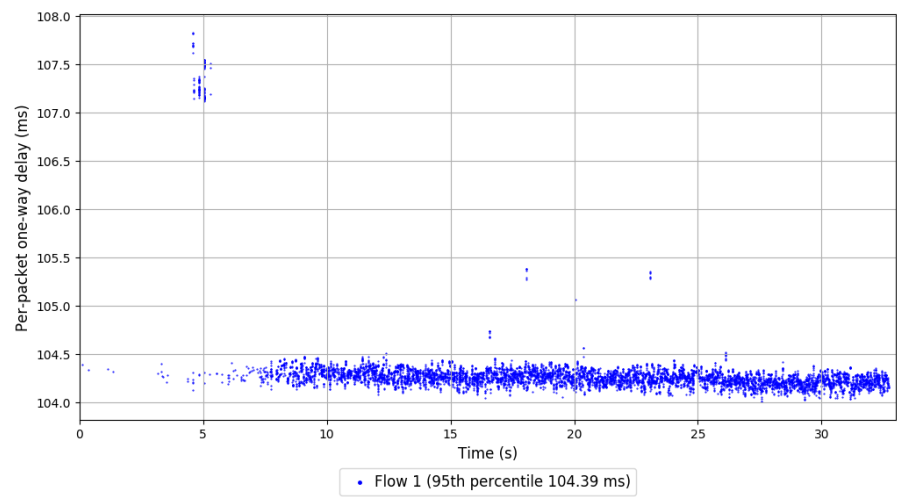
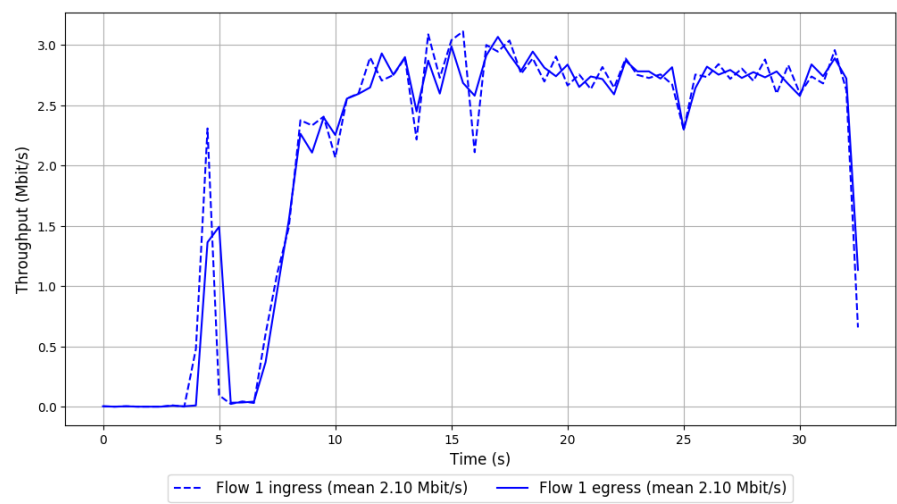


```
Run 1: Statistics of WebRTC media

Start at: 2017-10-10 19:33:21
End at: 2017-10-10 19:33:51

# Below is generated by plot.py at 2017-10-10 22:27:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.10 Mbit/s
95th percentile per-packet one-way delay: 104.395 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.10 Mbit/s
95th percentile per-packet one-way delay: 104.395 ms
Loss rate: 0.00%
```


Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2017-10-10 19:44:59

End at: 2017-10-10 19:45:29

Below is generated by plot.py at 2017-10-10 22:27:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 104.538 ms

Loss rate: 0.00%

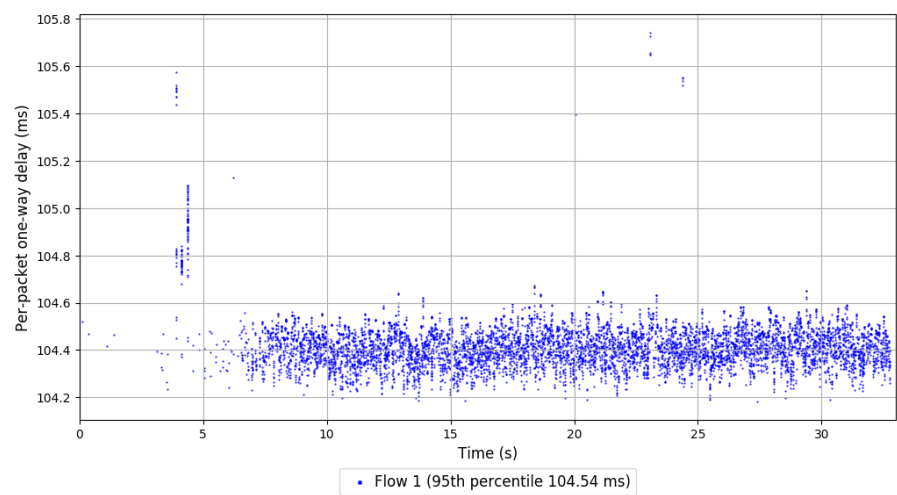
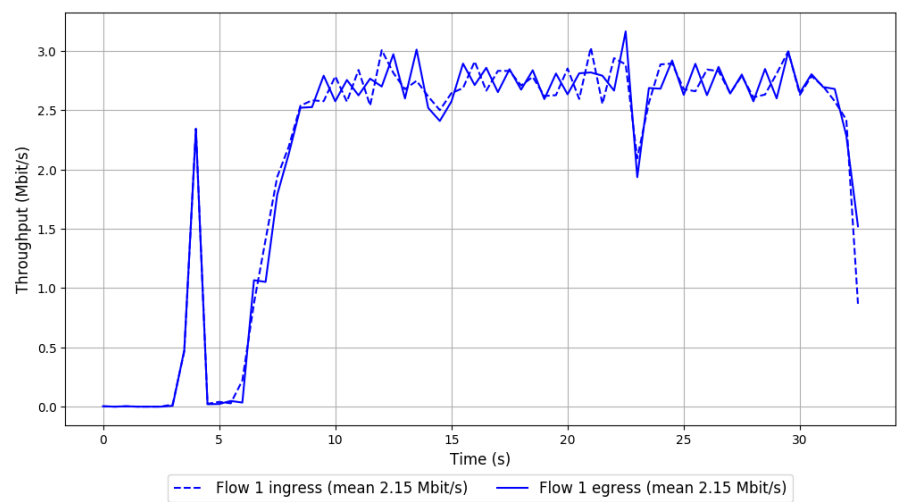
-- Flow 1:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 104.538 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2017-10-10 19:56:02

End at: 2017-10-10 19:56:32

Below is generated by plot.py at 2017-10-10 22:27:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 105.830 ms

Loss rate: 0.00%

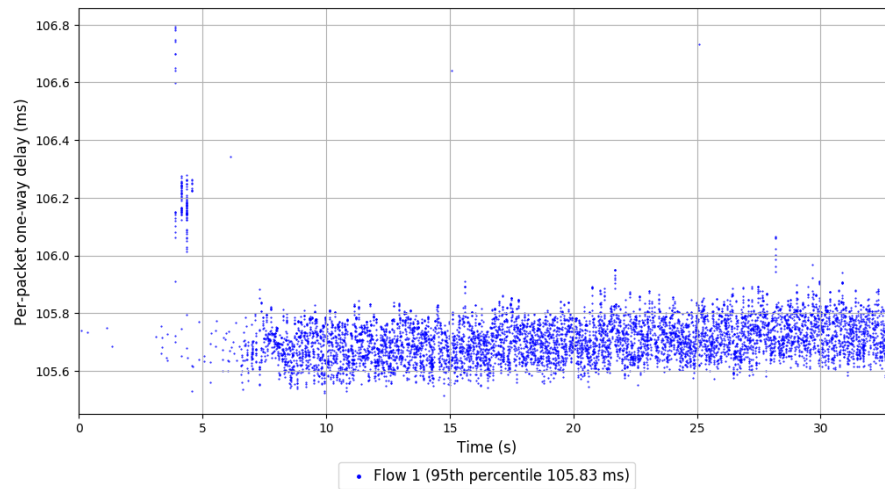
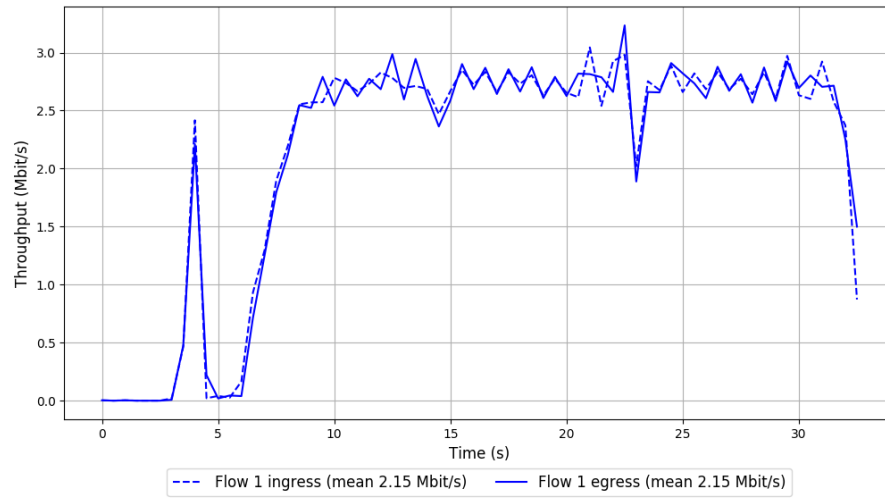
-- Flow 1:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 105.830 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2017-10-10 20:06:50

End at: 2017-10-10 20:07:20

Below is generated by plot.py at 2017-10-10 22:27:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 107.052 ms

Loss rate: 0.00%

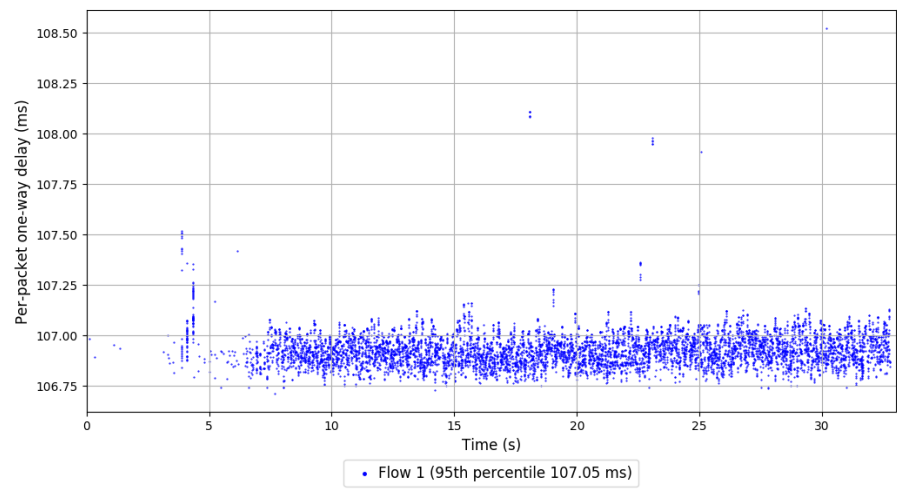
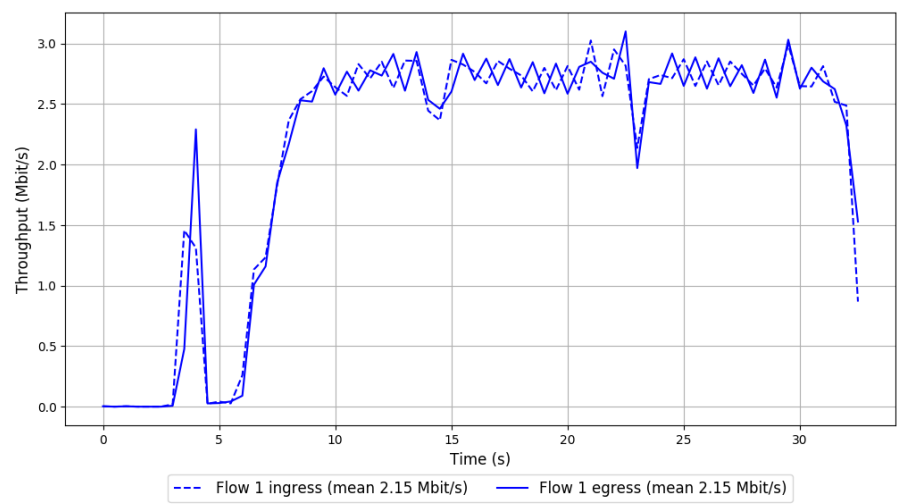
-- Flow 1:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 107.052 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2017-10-10 20:18:04

End at: 2017-10-10 20:18:34

Below is generated by plot.py at 2017-10-10 22:27:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.16 Mbit/s

95th percentile per-packet one-way delay: 103.597 ms

Loss rate: 0.00%

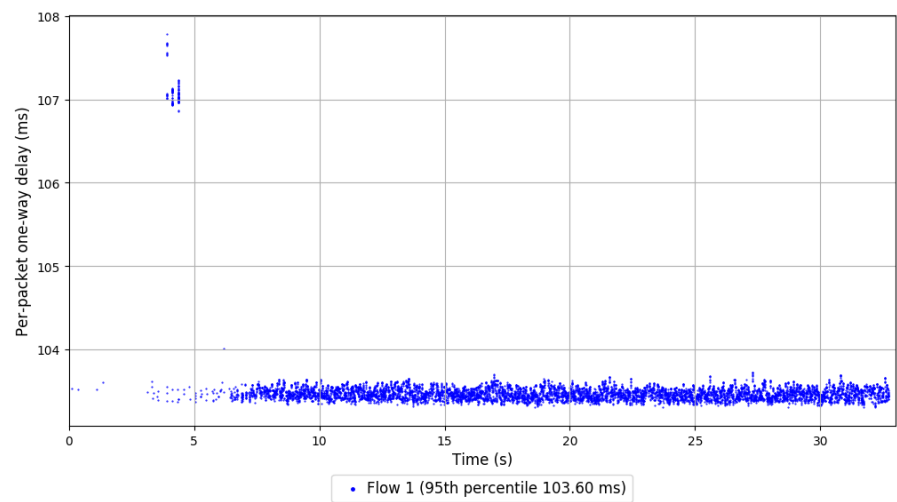
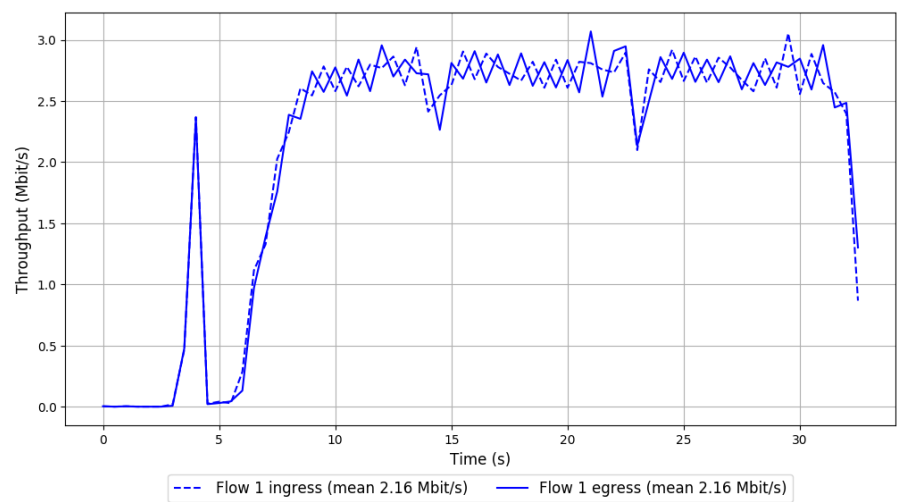
-- Flow 1:

Average throughput: 2.16 Mbit/s

95th percentile per-packet one-way delay: 103.597 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2017-10-10 20:29:25

End at: 2017-10-10 20:29:55

Below is generated by plot.py at 2017-10-10 22:27:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 104.281 ms

Loss rate: 0.00%

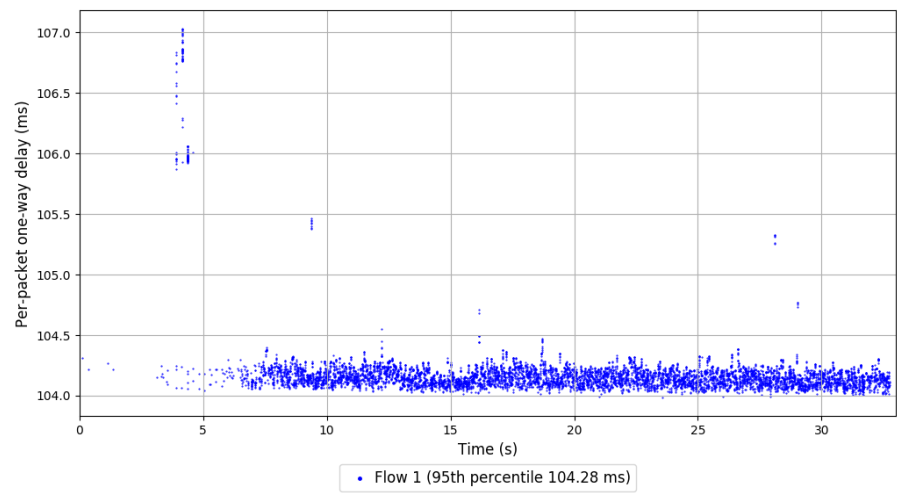
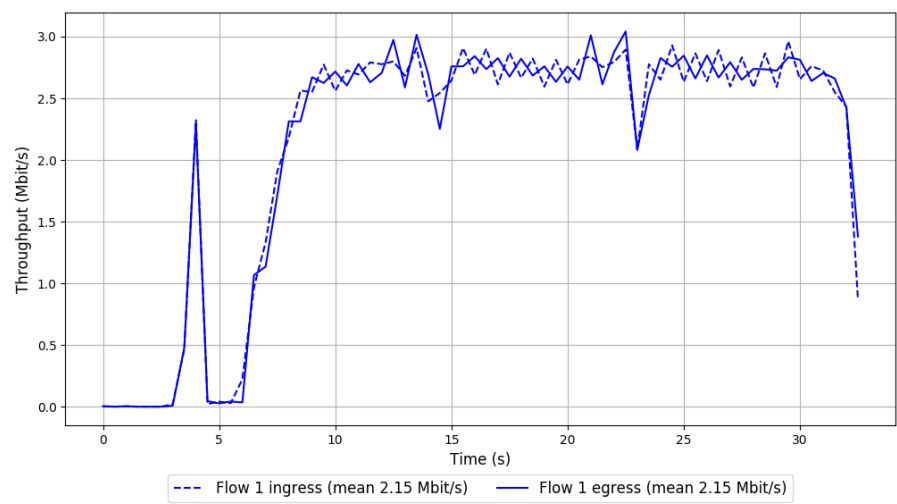
-- Flow 1:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 104.281 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2017-10-10 20:40:35

End at: 2017-10-10 20:41:05

Below is generated by plot.py at 2017-10-10 22:27:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 102.808 ms

Loss rate: 0.00%

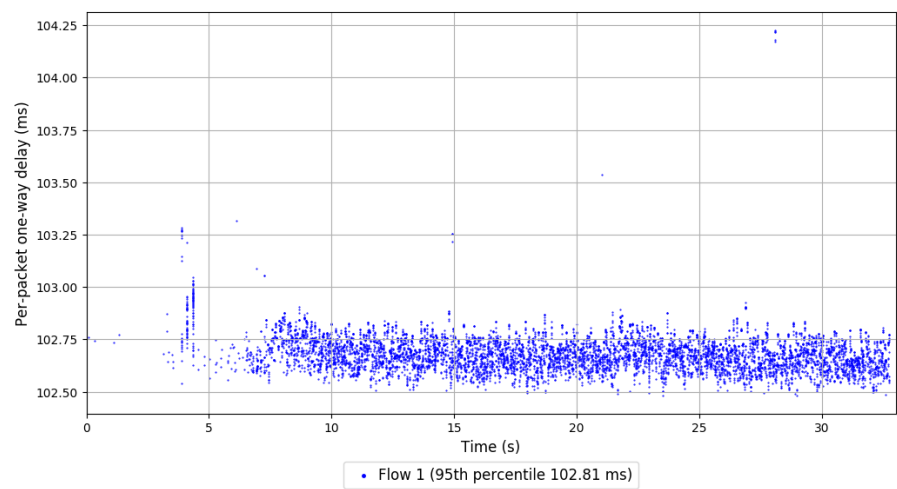
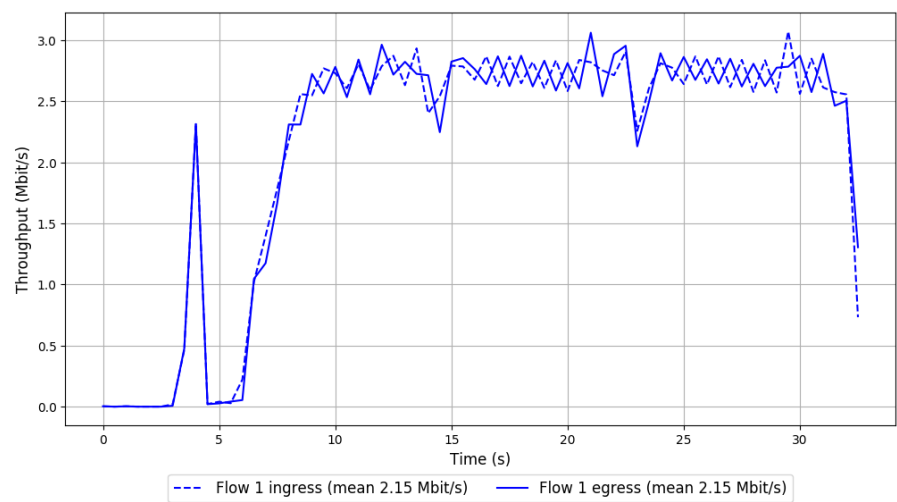
-- Flow 1:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 102.808 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2017-10-10 20:52:04

End at: 2017-10-10 20:52:34

Below is generated by plot.py at 2017-10-10 22:27:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.16 Mbit/s

95th percentile per-packet one-way delay: 101.861 ms

Loss rate: 0.00%

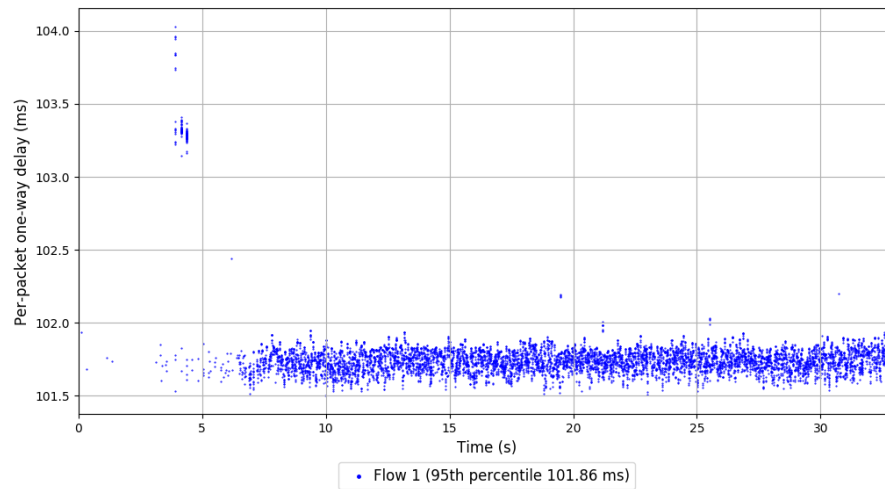
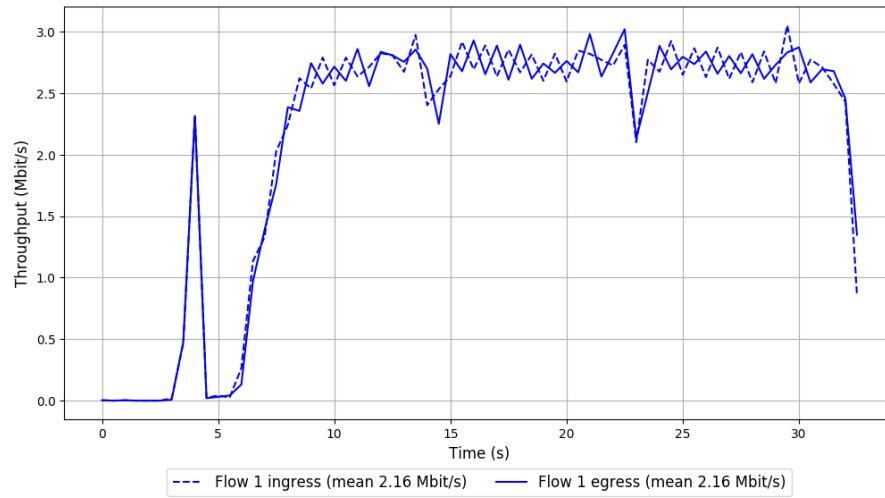
-- Flow 1:

Average throughput: 2.16 Mbit/s

95th percentile per-packet one-way delay: 101.861 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2017-10-10 21:03:38

End at: 2017-10-10 21:04:08

Below is generated by plot.py at 2017-10-10 22:27:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 106.091 ms

Loss rate: 0.00%

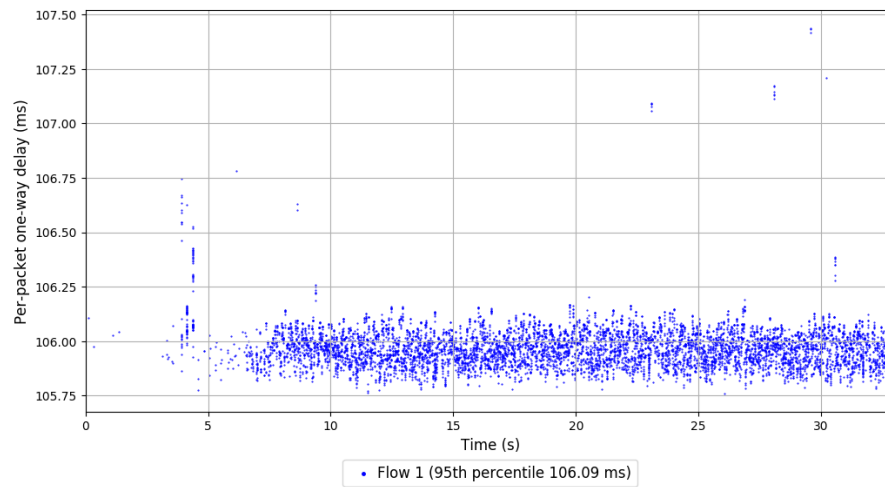
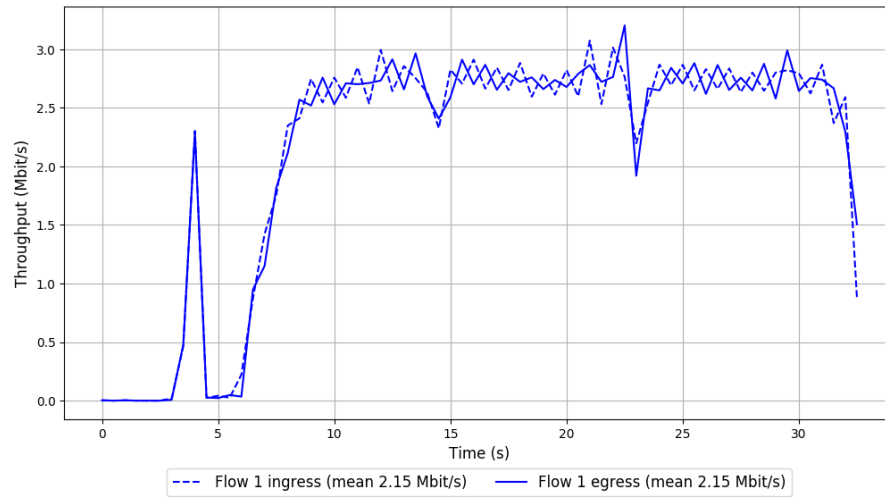
-- Flow 1:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 106.091 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2017-10-10 21:14:58

End at: 2017-10-10 21:15:28

Below is generated by plot.py at 2017-10-10 22:27:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 105.789 ms

Loss rate: 0.01%

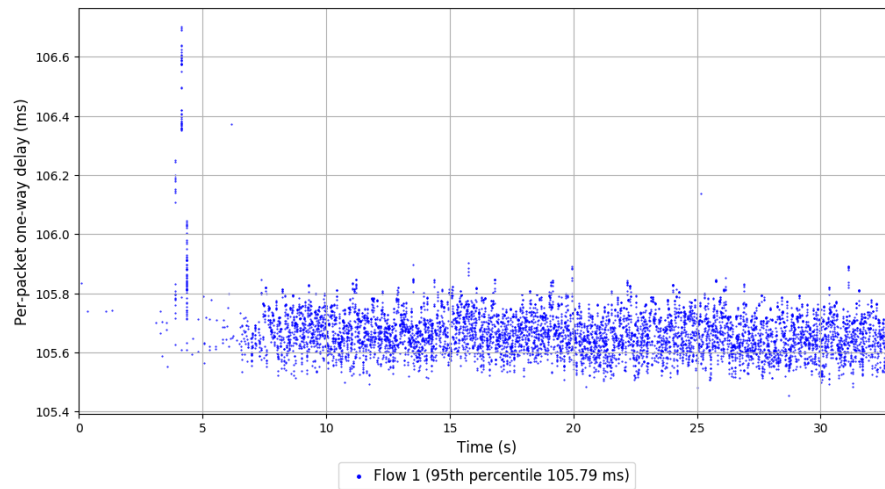
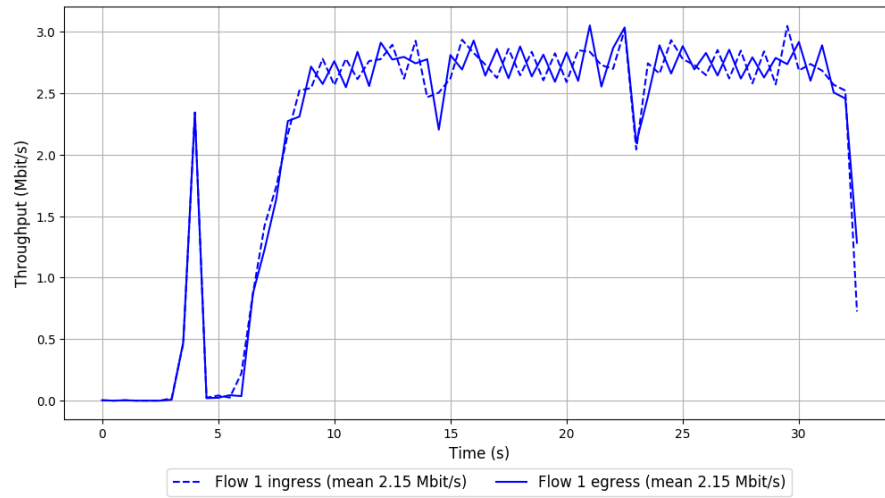
-- Flow 1:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 105.789 ms

Loss rate: 0.01%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2017-10-10 19:36:49

End at: 2017-10-10 19:37:19

Below is generated by plot.py at 2017-10-10 22:27:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.84 Mbit/s

95th percentile per-packet one-way delay: 107.268 ms

Loss rate: 0.00%

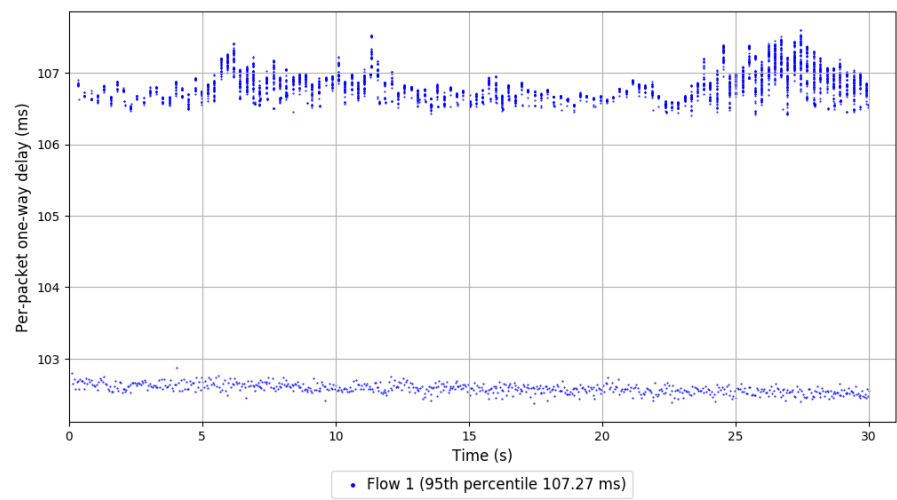
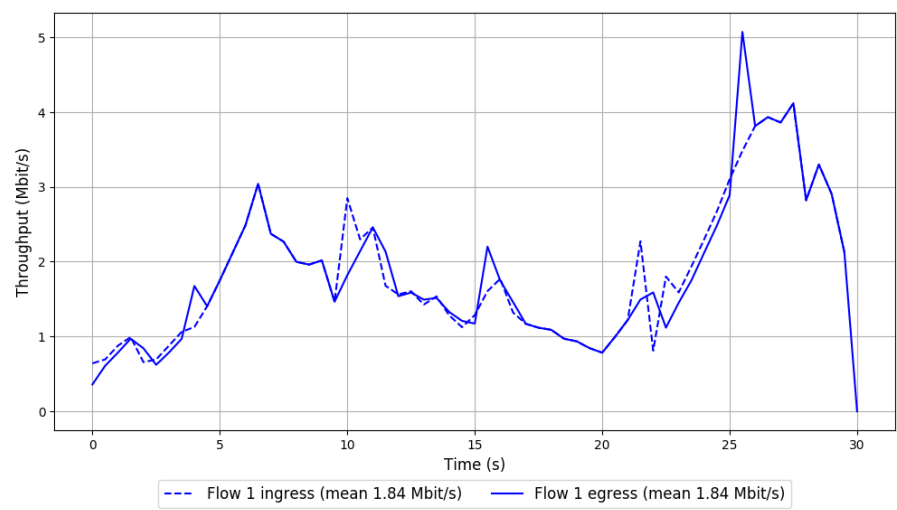
-- Flow 1:

Average throughput: 1.84 Mbit/s

95th percentile per-packet one-way delay: 107.268 ms

Loss rate: 0.00%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2017-10-10 19:48:22

End at: 2017-10-10 19:48:52

Below is generated by plot.py at 2017-10-10 22:27:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.34 Mbit/s

95th percentile per-packet one-way delay: 105.410 ms

Loss rate: 0.03%

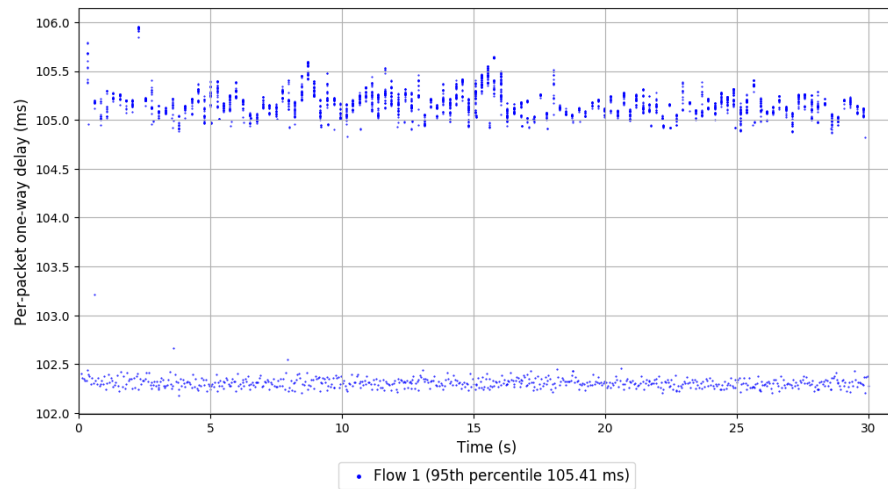
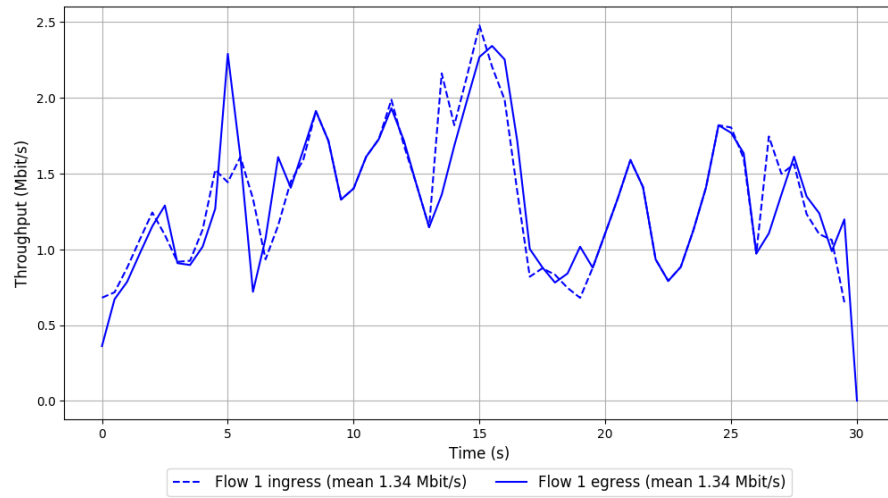
-- Flow 1:

Average throughput: 1.34 Mbit/s

95th percentile per-packet one-way delay: 105.410 ms

Loss rate: 0.03%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2017-10-10 19:59:14

End at: 2017-10-10 19:59:44

Below is generated by plot.py at 2017-10-10 22:27:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.86 Mbit/s

95th percentile per-packet one-way delay: 107.268 ms

Loss rate: 0.00%

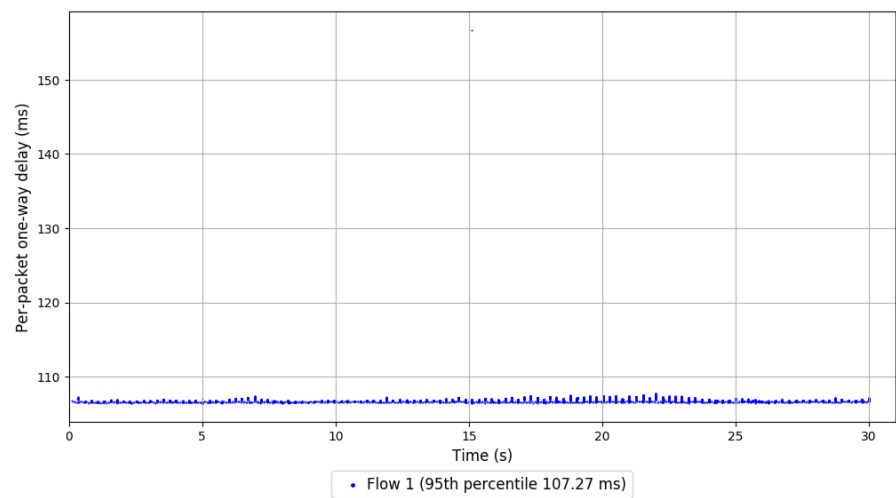
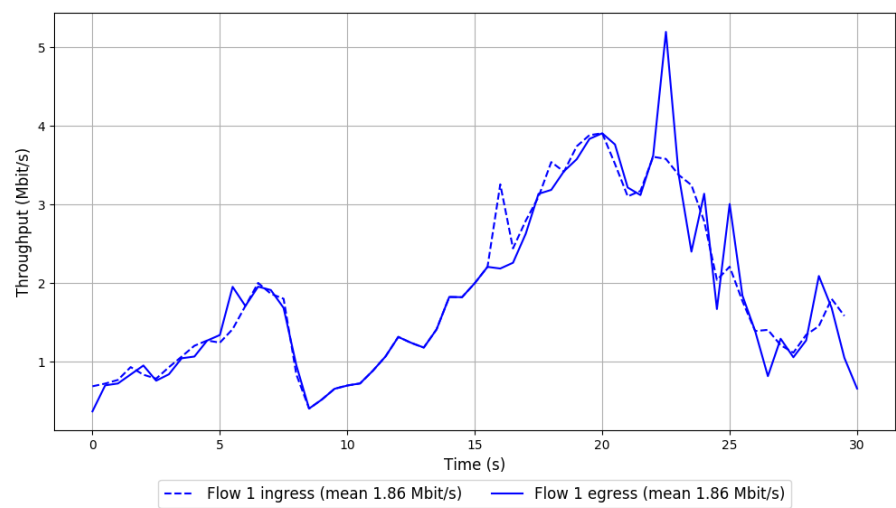
-- Flow 1:

Average throughput: 1.86 Mbit/s

95th percentile per-packet one-way delay: 107.268 ms

Loss rate: 0.00%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2017-10-10 20:10:22

End at: 2017-10-10 20:10:52

Below is generated by plot.py at 2017-10-10 22:27:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.80 Mbit/s

95th percentile per-packet one-way delay: 107.944 ms

Loss rate: 0.00%

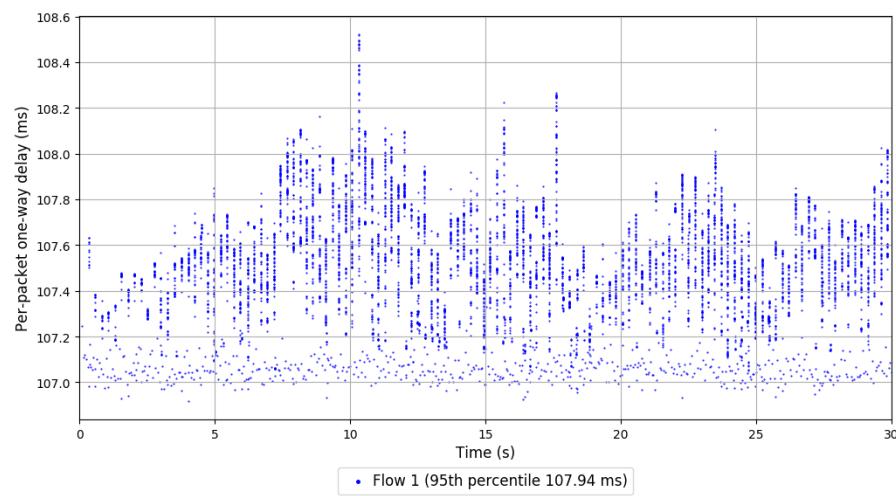
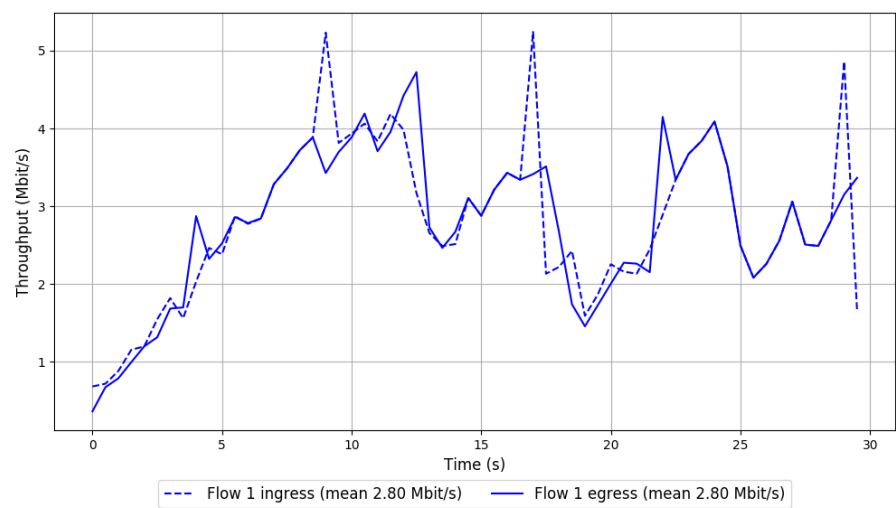
-- Flow 1:

Average throughput: 2.80 Mbit/s

95th percentile per-packet one-way delay: 107.944 ms

Loss rate: 0.00%

Run 4: Report of Sprout — Data Link

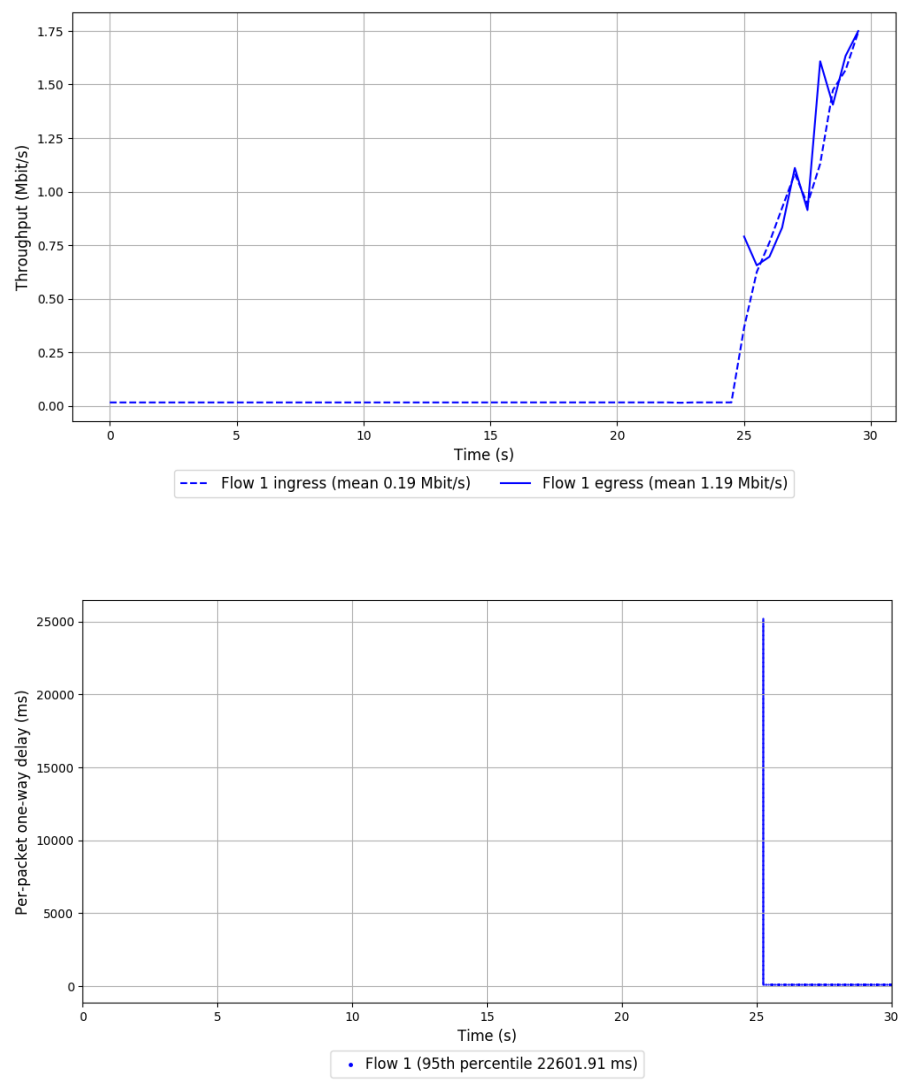


Run 5: Statistics of Sprout

Start at: 2017-10-10 20:21:22

End at: 2017-10-10 20:21:52

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2017-10-10 20:32:56

End at: 2017-10-10 20:33:26

Below is generated by plot.py at 2017-10-10 22:27:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.14 Mbit/s

95th percentile per-packet one-way delay: 105.586 ms

Loss rate: 0.02%

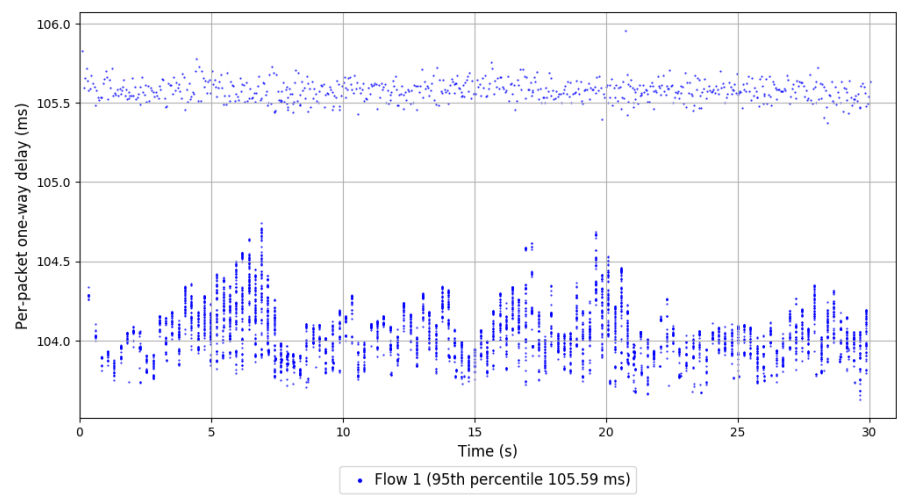
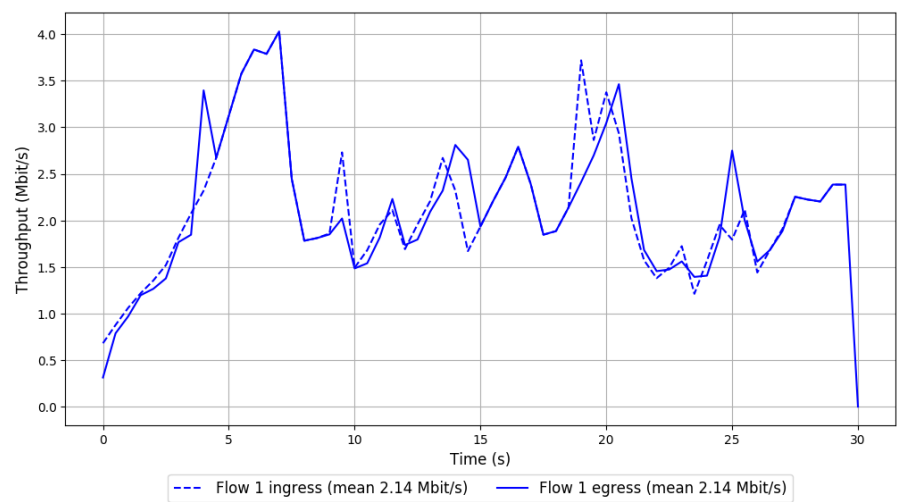
-- Flow 1:

Average throughput: 2.14 Mbit/s

95th percentile per-packet one-way delay: 105.586 ms

Loss rate: 0.02%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2017-10-10 20:44:07

End at: 2017-10-10 20:44:37

Below is generated by plot.py at 2017-10-10 22:27:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.92 Mbit/s

95th percentile per-packet one-way delay: 104.863 ms

Loss rate: 0.00%

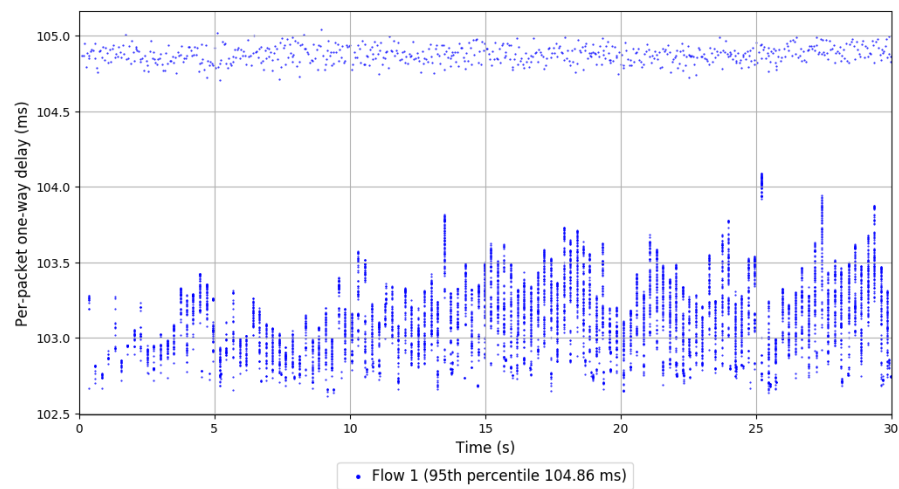
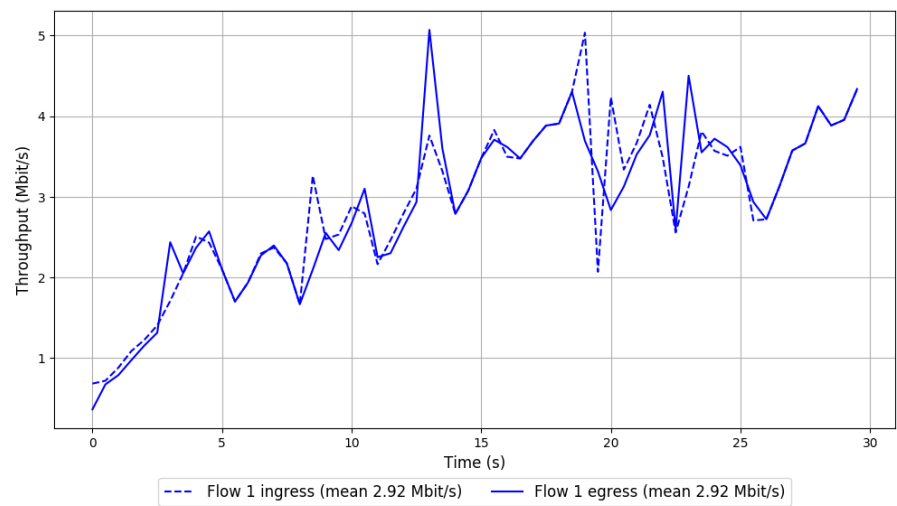
-- Flow 1:

Average throughput: 2.92 Mbit/s

95th percentile per-packet one-way delay: 104.863 ms

Loss rate: 0.00%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2017-10-10 20:55:25

End at: 2017-10-10 20:55:55

Below is generated by plot.py at 2017-10-10 22:27:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.40 Mbit/s

95th percentile per-packet one-way delay: 104.206 ms

Loss rate: 0.02%

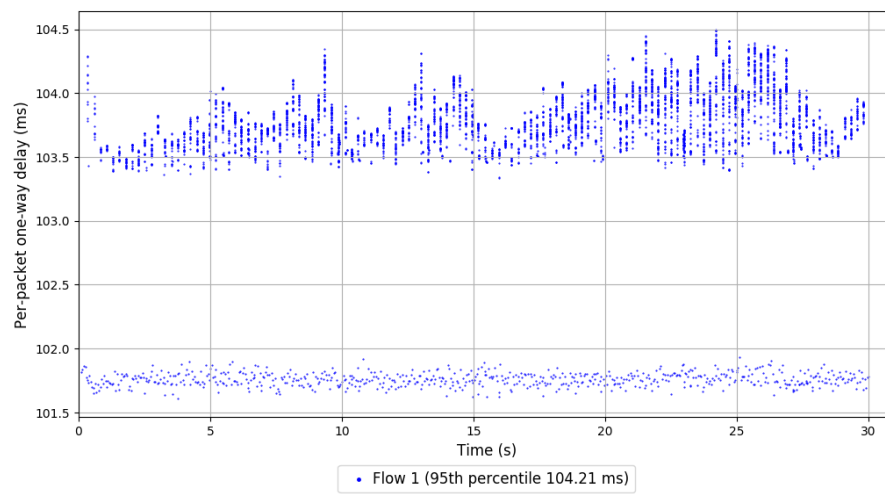
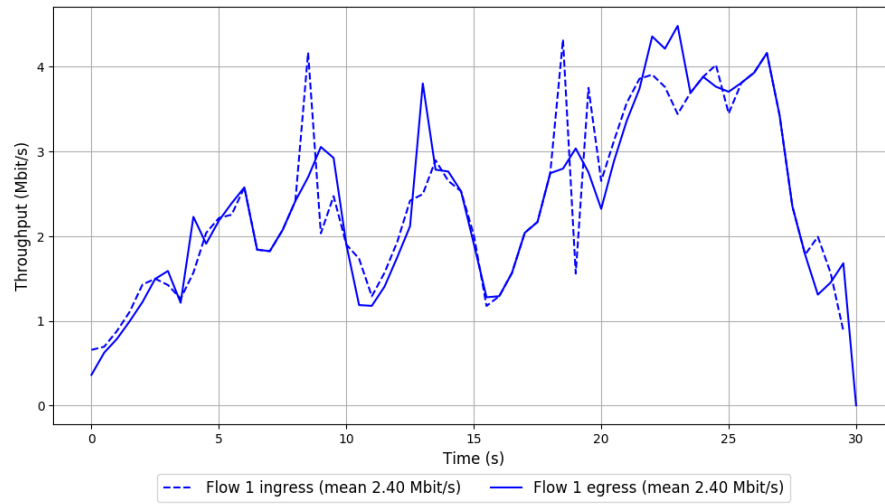
-- Flow 1:

Average throughput: 2.40 Mbit/s

95th percentile per-packet one-way delay: 104.206 ms

Loss rate: 0.02%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2017-10-10 21:06:48

End at: 2017-10-10 21:07:18

Below is generated by plot.py at 2017-10-10 22:27:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.20 Mbit/s

95th percentile per-packet one-way delay: 106.650 ms

Loss rate: 0.00%

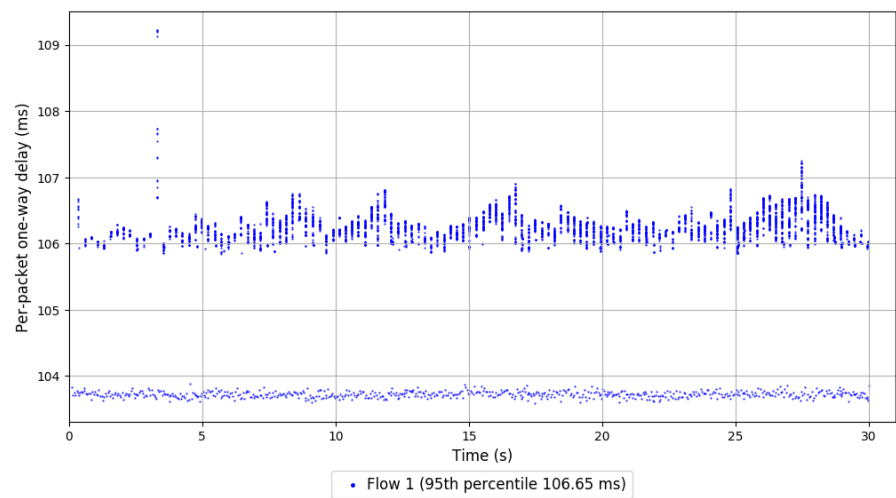
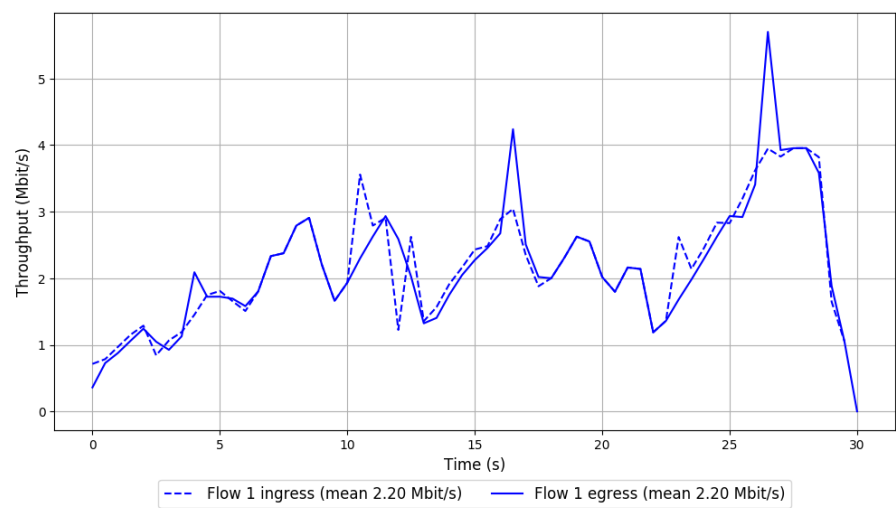
-- Flow 1:

Average throughput: 2.20 Mbit/s

95th percentile per-packet one-way delay: 106.650 ms

Loss rate: 0.00%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2017-10-10 21:18:06

End at: 2017-10-10 21:18:36

Below is generated by plot.py at 2017-10-10 22:27:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.07 Mbit/s

95th percentile per-packet one-way delay: 106.517 ms

Loss rate: 0.02%

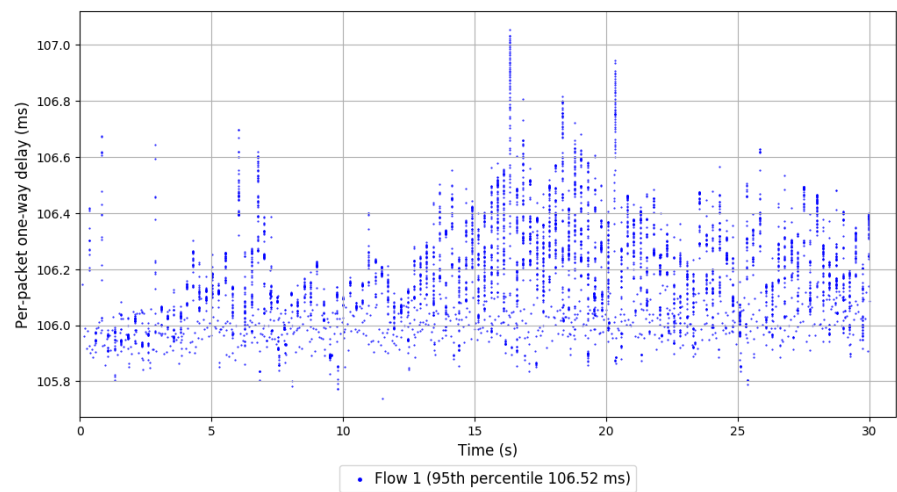
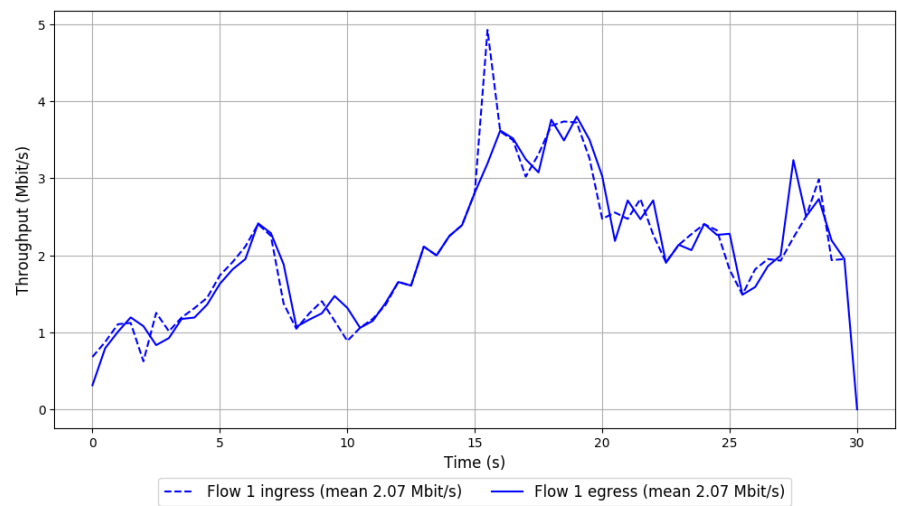
-- Flow 1:

Average throughput: 2.07 Mbit/s

95th percentile per-packet one-way delay: 106.517 ms

Loss rate: 0.02%

Run 10: Report of Sprout — Data Link

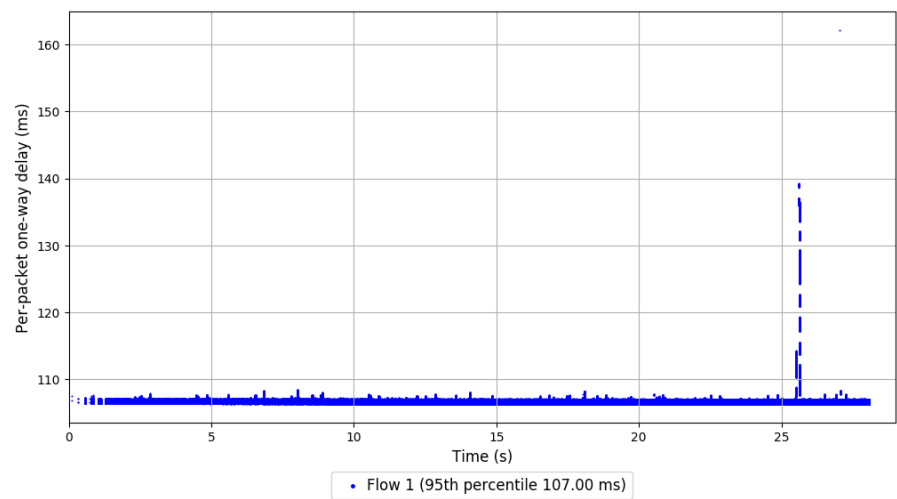
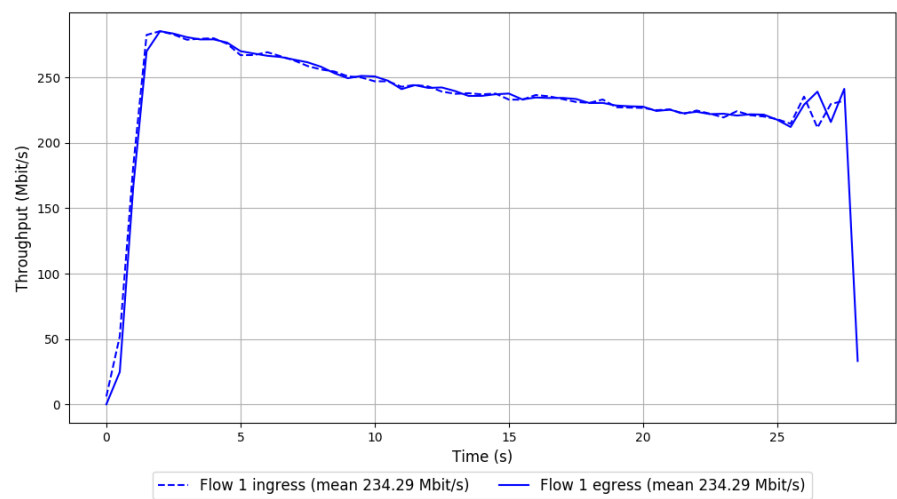


```
Run 1: Statistics of TaoVA-100x

Start at: 2017-10-10 19:34:02
End at: 2017-10-10 19:34:32

# Below is generated by plot.py at 2017-10-10 22:27:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 234.29 Mbit/s
95th percentile per-packet one-way delay: 106.995 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 234.29 Mbit/s
95th percentile per-packet one-way delay: 106.995 ms
Loss rate: 0.00%
```


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

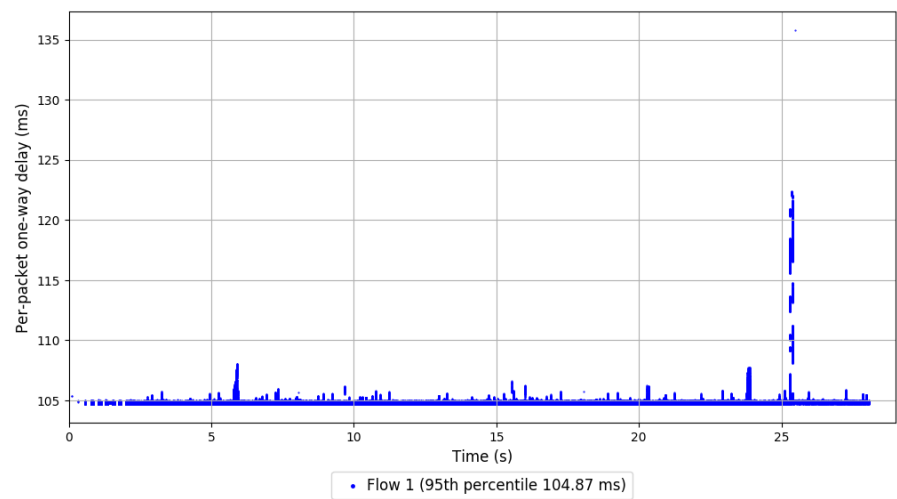
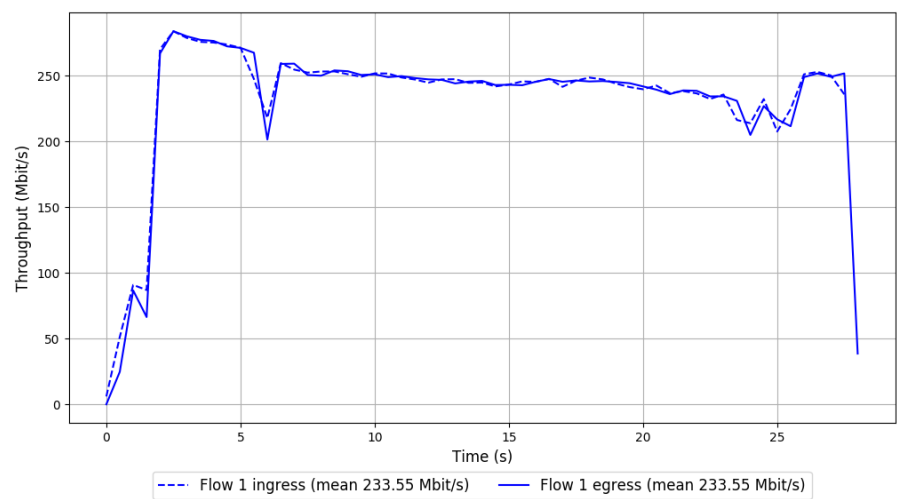


```
Run 2: Statistics of TaoVA-100x

Start at: 2017-10-10 19:45:40
End at: 2017-10-10 19:46:10

# Below is generated by plot.py at 2017-10-10 22:27:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 233.55 Mbit/s
95th percentile per-packet one-way delay: 104.874 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 233.55 Mbit/s
95th percentile per-packet one-way delay: 104.874 ms
Loss rate: 0.01%
```

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



Run 3: Statistics of TaoVA-100x

Start at: 2017-10-10 19:56:43

End at: 2017-10-10 19:57:13

Below is generated by plot.py at 2017-10-10 22:27:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 14.95 Mbit/s

95th percentile per-packet one-way delay: 106.220 ms

Loss rate: 0.01%

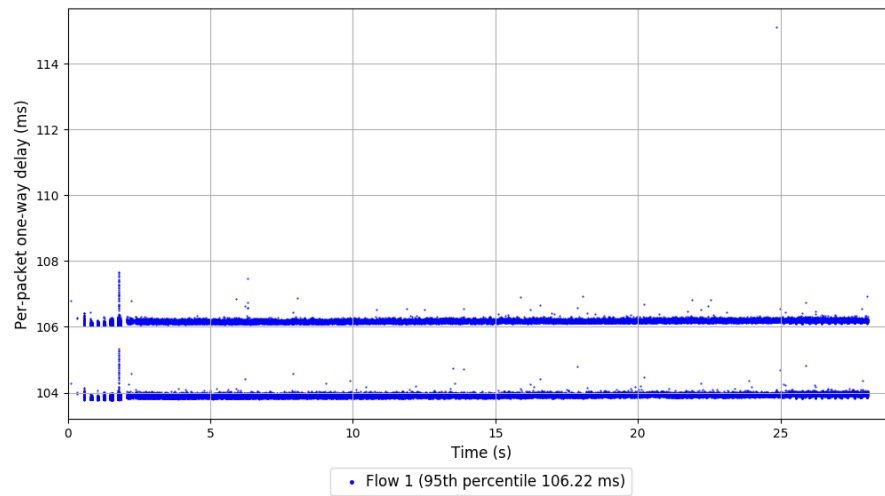
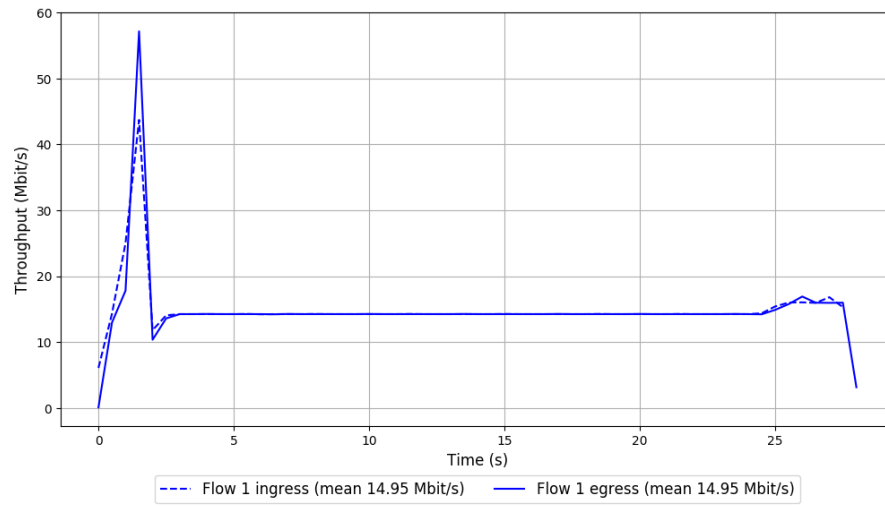
-- Flow 1:

Average throughput: 14.95 Mbit/s

95th percentile per-packet one-way delay: 106.220 ms

Loss rate: 0.01%

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



Run 4: Statistics of TaoVA-100x

Start at: 2017-10-10 20:07:31

End at: 2017-10-10 20:08:01

Below is generated by plot.py at 2017-10-10 22:27:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 235.79 Mbit/s

95th percentile per-packet one-way delay: 106.909 ms

Loss rate: 0.00%

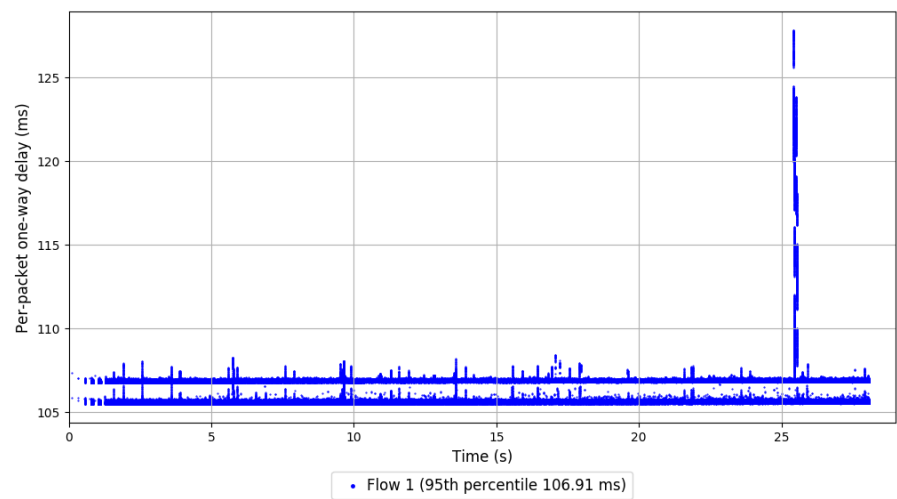
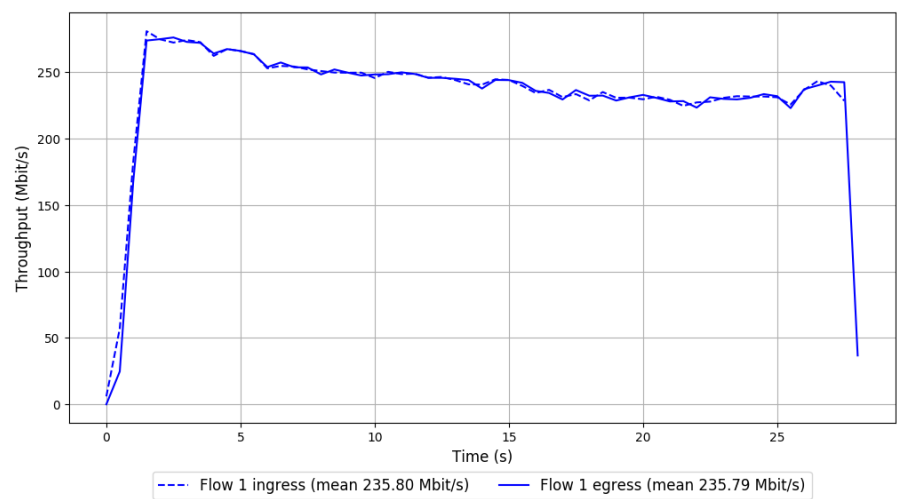
-- Flow 1:

Average throughput: 235.79 Mbit/s

95th percentile per-packet one-way delay: 106.909 ms

Loss rate: 0.00%

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



Run 5: Statistics of TaoVA-100x

Start at: 2017-10-10 20:18:45

End at: 2017-10-10 20:19:15

Below is generated by plot.py at 2017-10-10 22:27:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.73 Mbit/s

95th percentile per-packet one-way delay: 106.899 ms

Loss rate: 0.00%

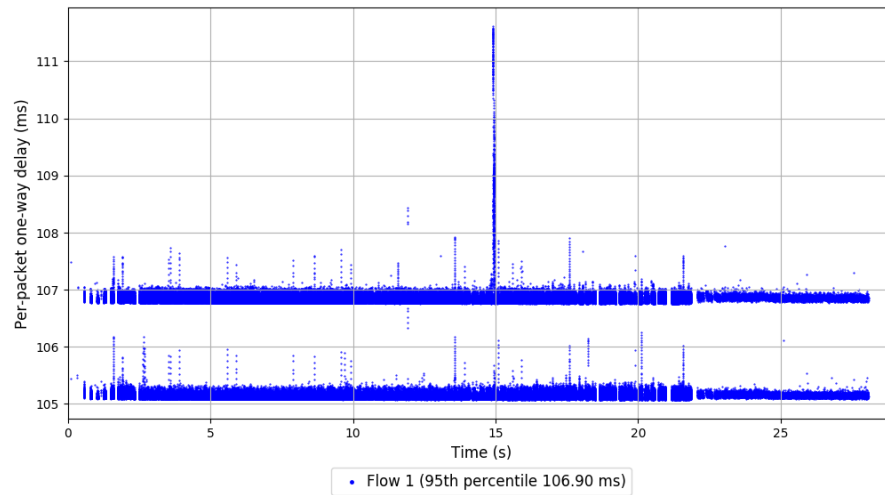
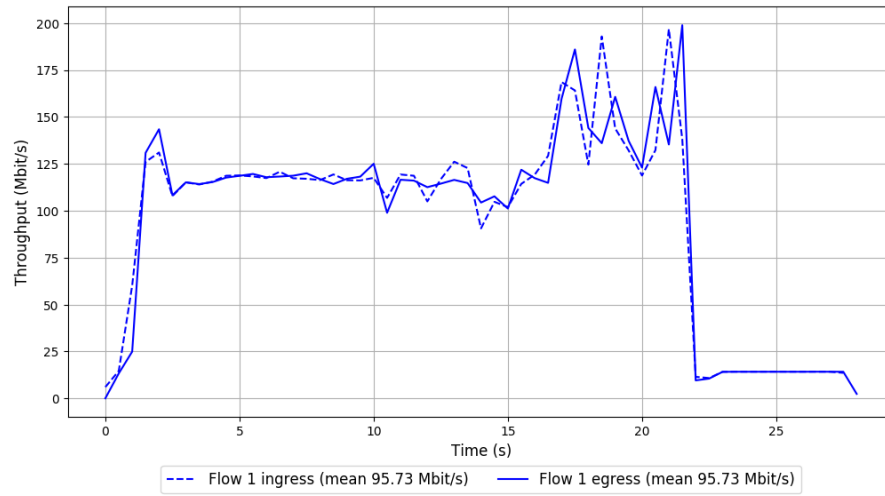
-- Flow 1:

Average throughput: 95.73 Mbit/s

95th percentile per-packet one-way delay: 106.899 ms

Loss rate: 0.00%

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



Run 6: Statistics of TaoVA-100x

Start at: 2017-10-10 20:30:06

End at: 2017-10-10 20:30:36

Below is generated by plot.py at 2017-10-10 22:28:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 236.01 Mbit/s

95th percentile per-packet one-way delay: 105.896 ms

Loss rate: 0.00%

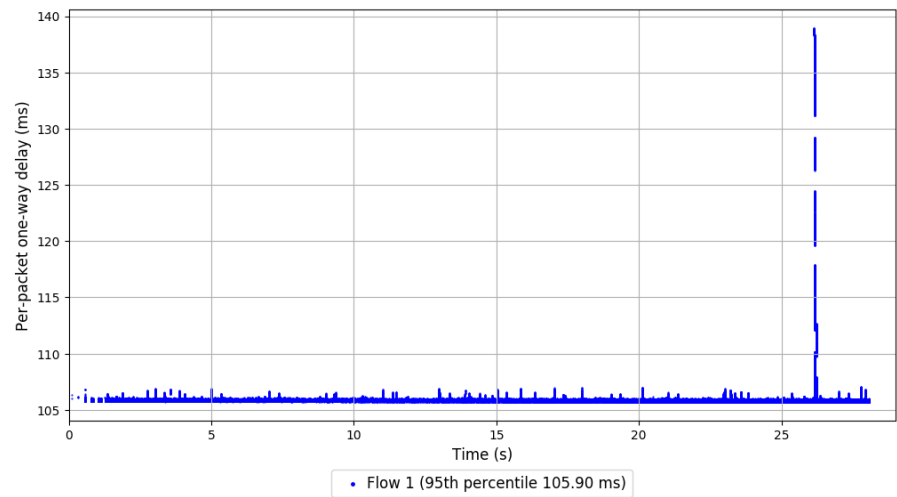
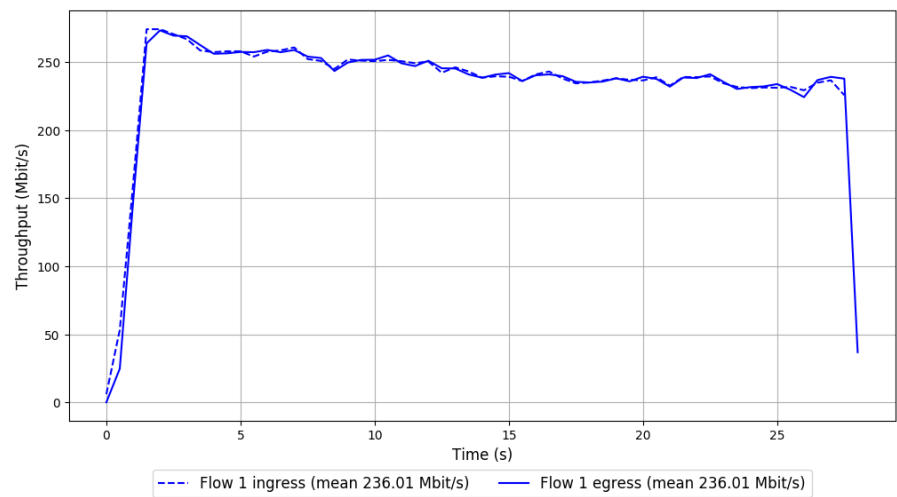
-- Flow 1:

Average throughput: 236.01 Mbit/s

95th percentile per-packet one-way delay: 105.896 ms

Loss rate: 0.00%

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



Run 7: Statistics of TaoVA-100x

Start at: 2017-10-10 20:41:16

End at: 2017-10-10 20:41:46

Below is generated by plot.py at 2017-10-10 22:28:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 235.15 Mbit/s

95th percentile per-packet one-way delay: 103.048 ms

Loss rate: 0.00%

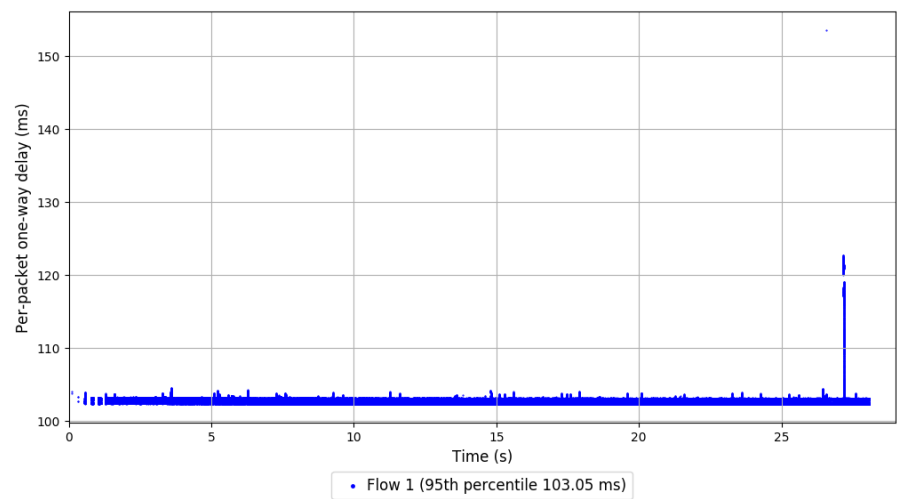
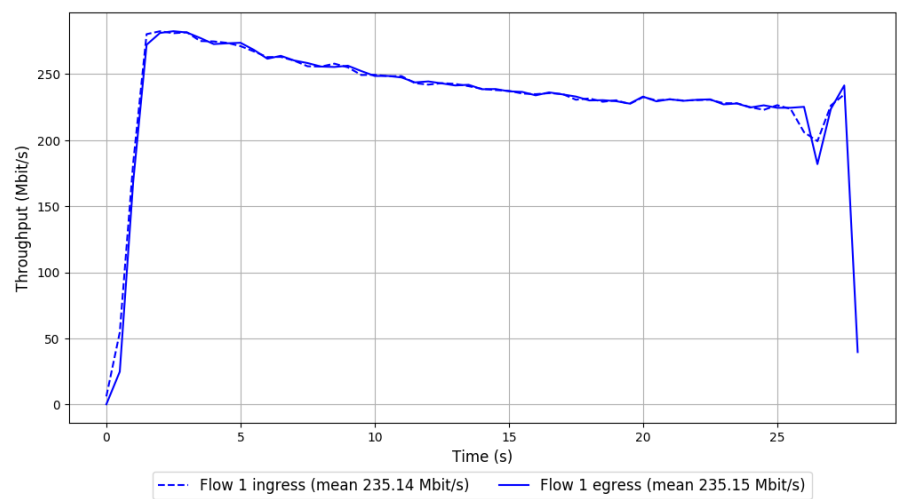
-- Flow 1:

Average throughput: 235.15 Mbit/s

95th percentile per-packet one-way delay: 103.048 ms

Loss rate: 0.00%

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



Run 8: Statistics of TaoVA-100x

Start at: 2017-10-10 20:52:45

End at: 2017-10-10 20:53:15

Below is generated by plot.py at 2017-10-10 22:28:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 118.38 Mbit/s

95th percentile per-packet one-way delay: 103.266 ms

Loss rate: 0.00%

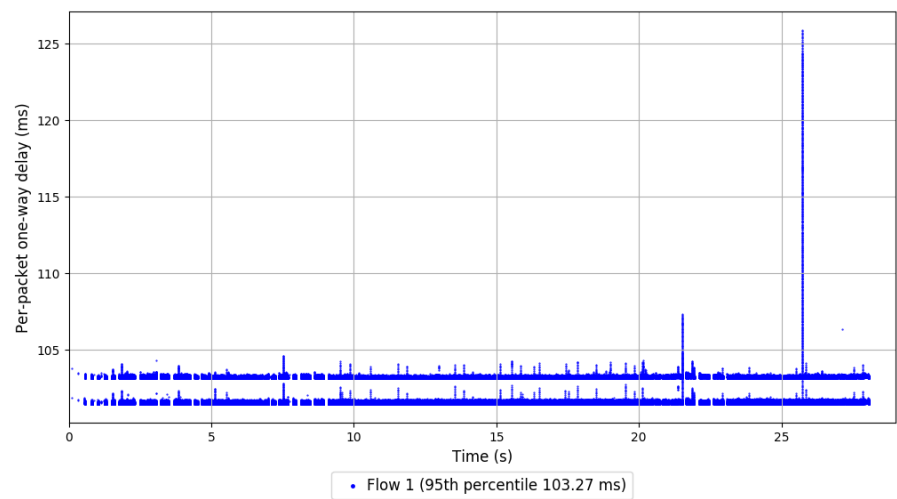
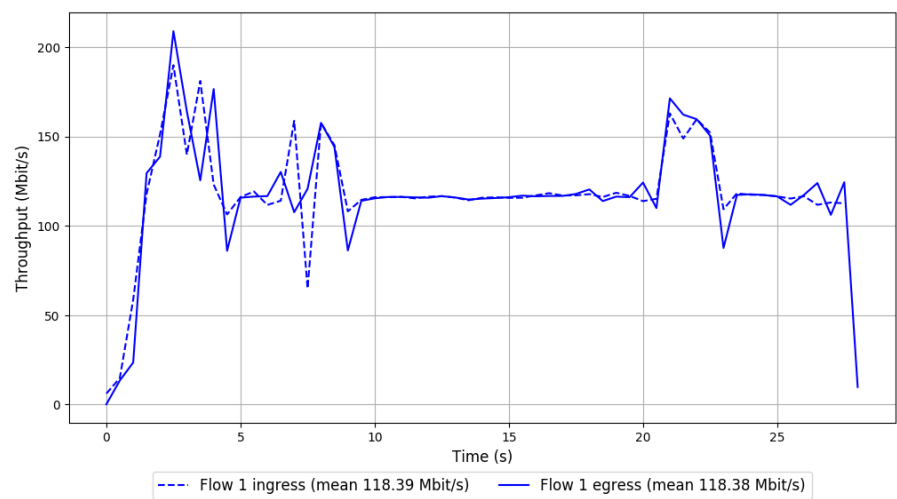
-- Flow 1:

Average throughput: 118.38 Mbit/s

95th percentile per-packet one-way delay: 103.266 ms

Loss rate: 0.00%

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



Run 9: Statistics of TaoVA-100x

Start at: 2017-10-10 21:04:19

End at: 2017-10-10 21:04:49

Below is generated by plot.py at 2017-10-10 22:28:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 15.80 Mbit/s

95th percentile per-packet one-way delay: 105.883 ms

Loss rate: 0.00%

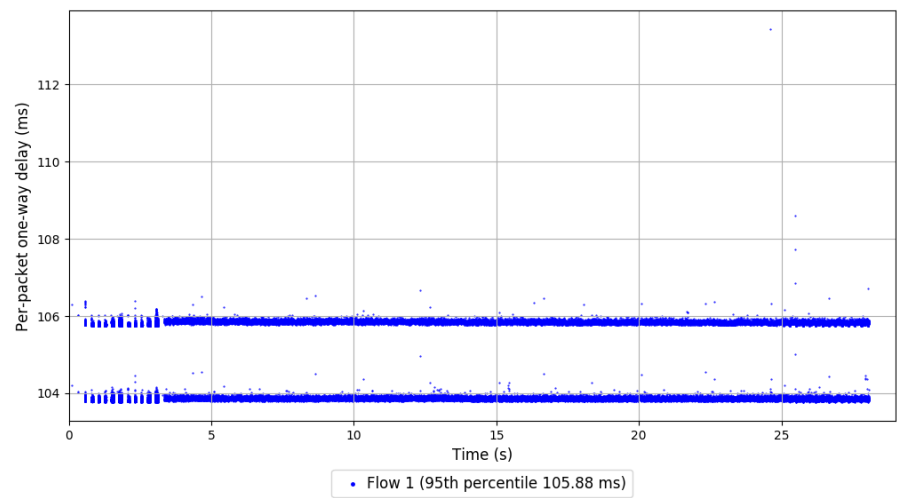
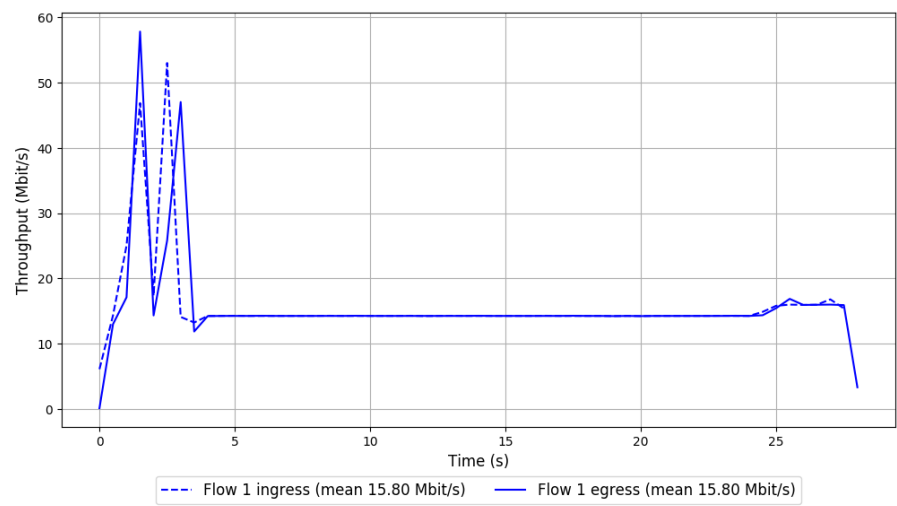
-- Flow 1:

Average throughput: 15.80 Mbit/s

95th percentile per-packet one-way delay: 105.883 ms

Loss rate: 0.00%

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

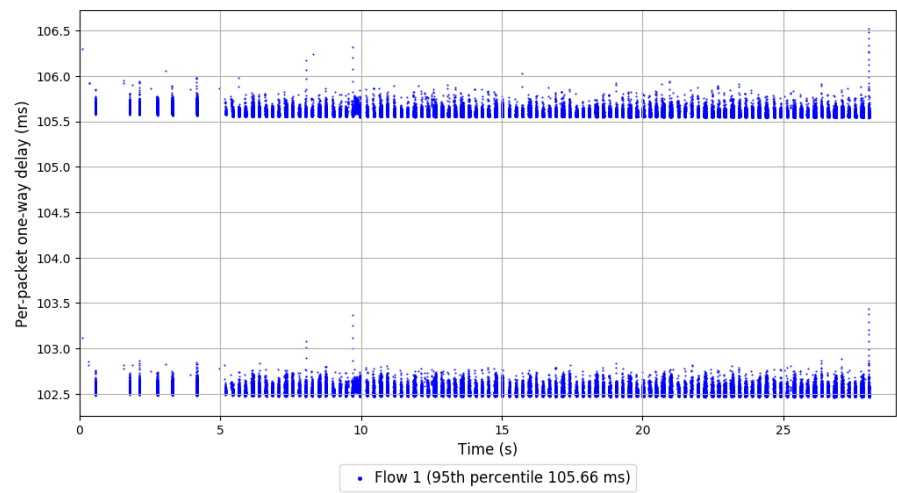
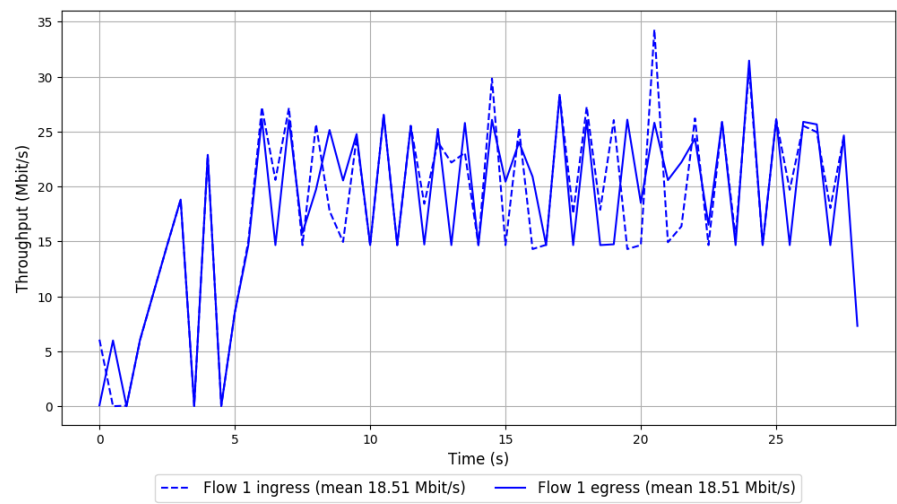


```
Run 10: Statistics of TaoVA-100x

Start at: 2017-10-10 21:15:39
End at: 2017-10-10 21:16:09

# Below is generated by plot.py at 2017-10-10 22:28:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 18.51 Mbit/s
95th percentile per-packet one-way delay: 105.658 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 18.51 Mbit/s
95th percentile per-packet one-way delay: 105.658 ms
Loss rate: 0.00%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2017-10-10 19:30:32

End at: 2017-10-10 19:31:02

Below is generated by plot.py at 2017-10-10 22:29:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 101.78 Mbit/s

95th percentile per-packet one-way delay: 112.193 ms

Loss rate: 0.04%

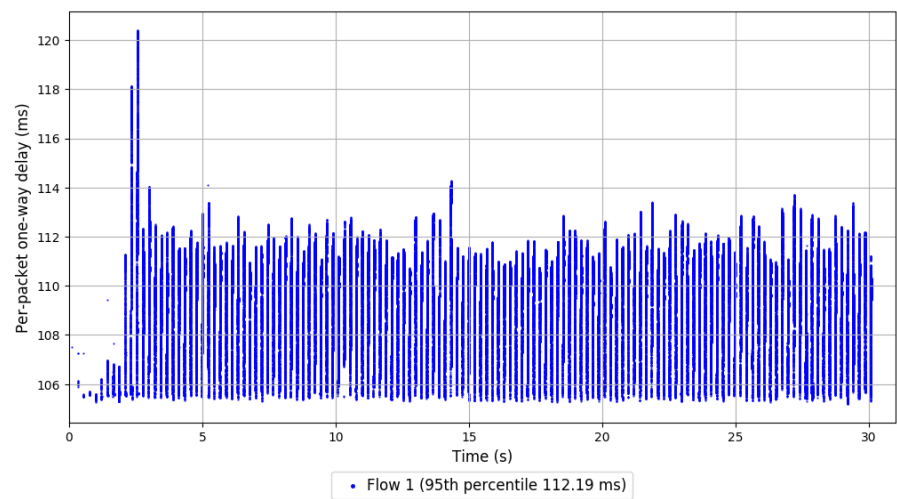
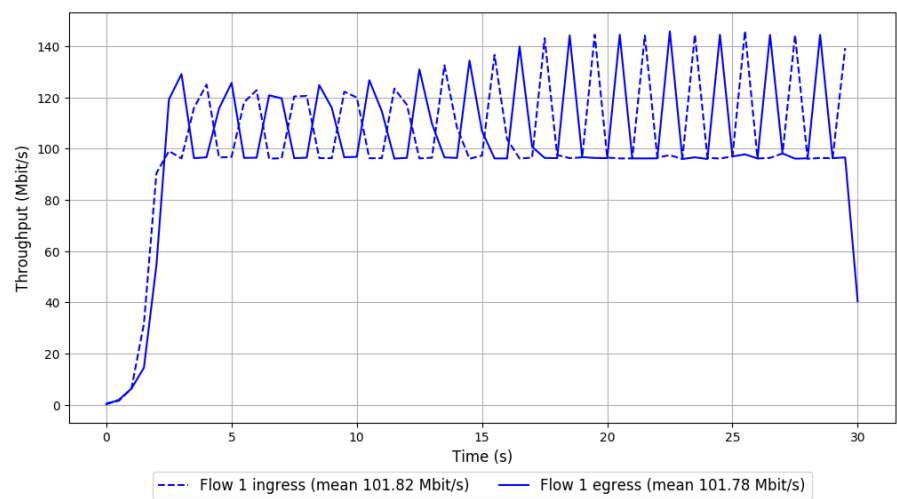
-- Flow 1:

Average throughput: 101.78 Mbit/s

95th percentile per-packet one-way delay: 112.193 ms

Loss rate: 0.04%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2017-10-10 19:42:10

End at: 2017-10-10 19:42:40

Below is generated by plot.py at 2017-10-10 22:29:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 68.33 Mbit/s

95th percentile per-packet one-way delay: 106.050 ms

Loss rate: 0.00%

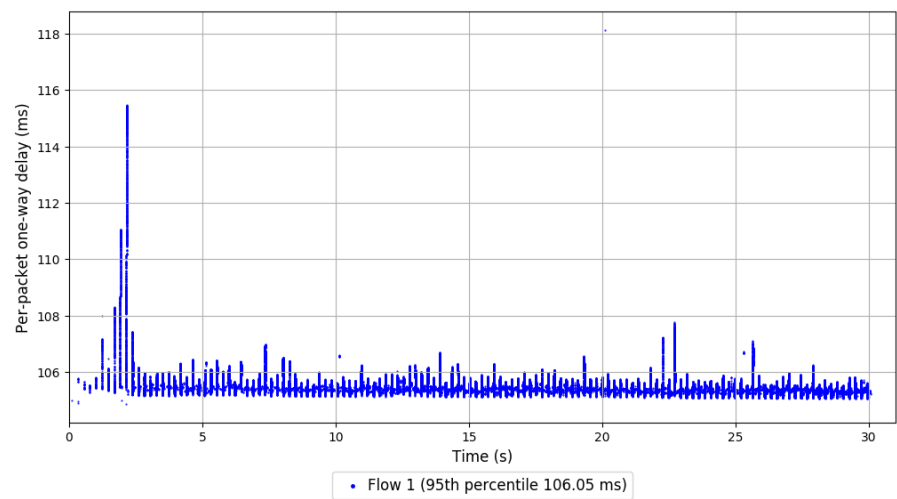
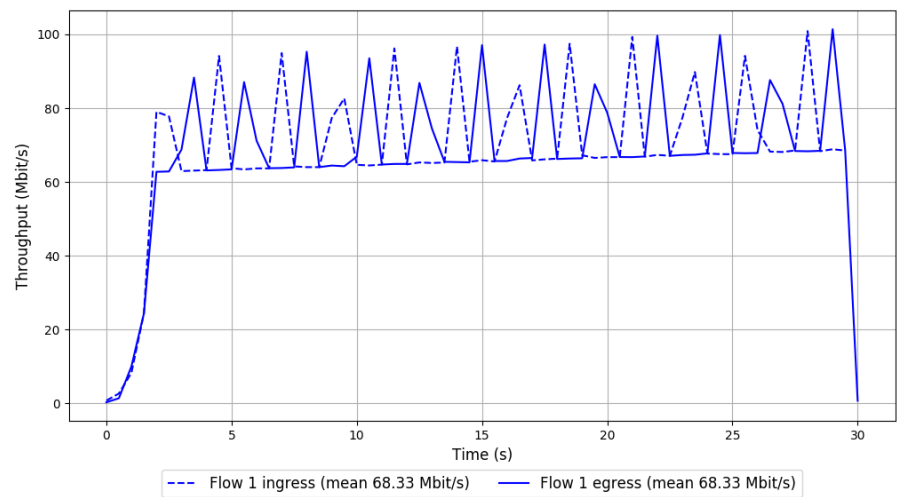
-- Flow 1:

Average throughput: 68.33 Mbit/s

95th percentile per-packet one-way delay: 106.050 ms

Loss rate: 0.00%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2017-10-10 19:53:45

End at: 2017-10-10 19:54:15

Below is generated by plot.py at 2017-10-10 22:29:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 38.62 Mbit/s

95th percentile per-packet one-way delay: 106.651 ms

Loss rate: 0.00%

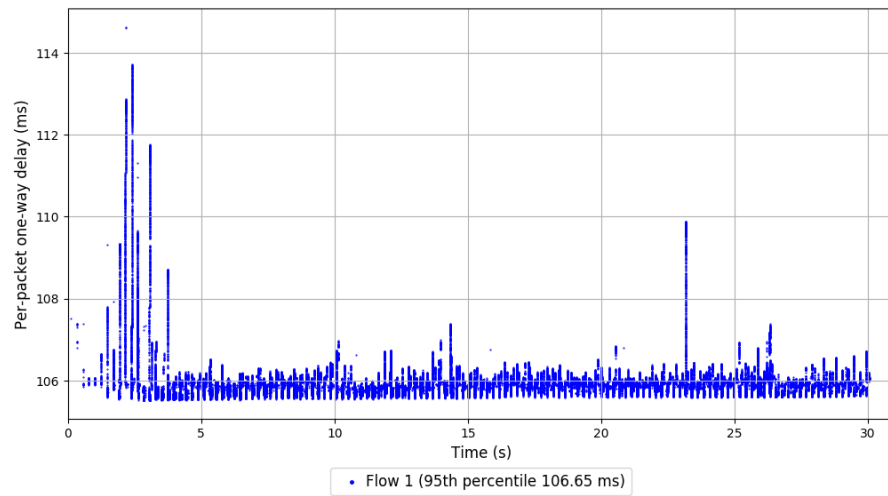
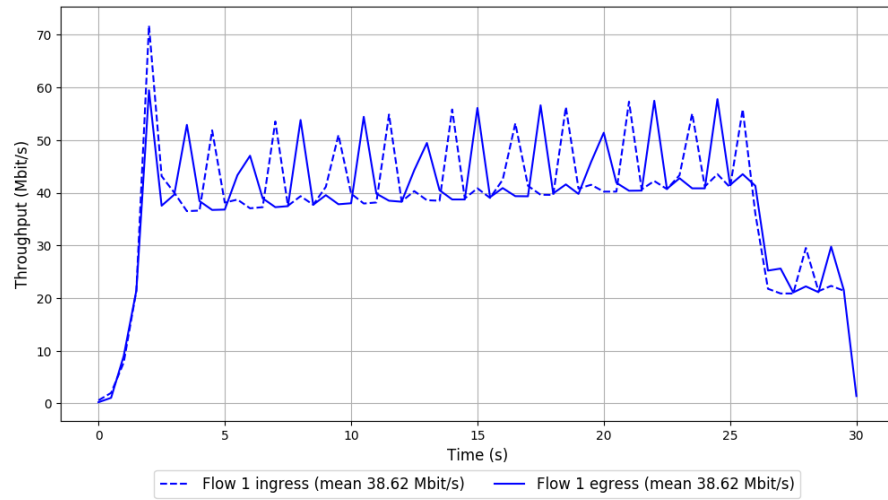
-- Flow 1:

Average throughput: 38.62 Mbit/s

95th percentile per-packet one-way delay: 106.651 ms

Loss rate: 0.00%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2017-10-10 20:04:30

End at: 2017-10-10 20:05:00

Below is generated by plot.py at 2017-10-10 22:29:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 17.42 Mbit/s

95th percentile per-packet one-way delay: 107.324 ms

Loss rate: 0.00%

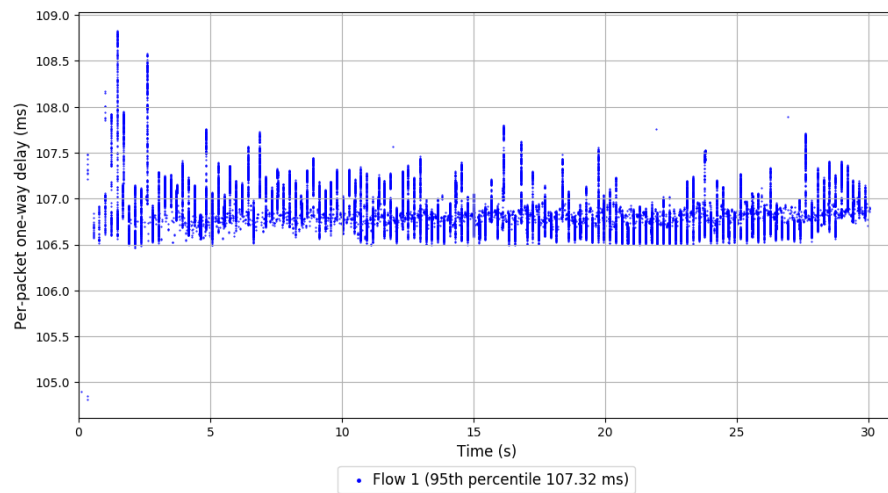
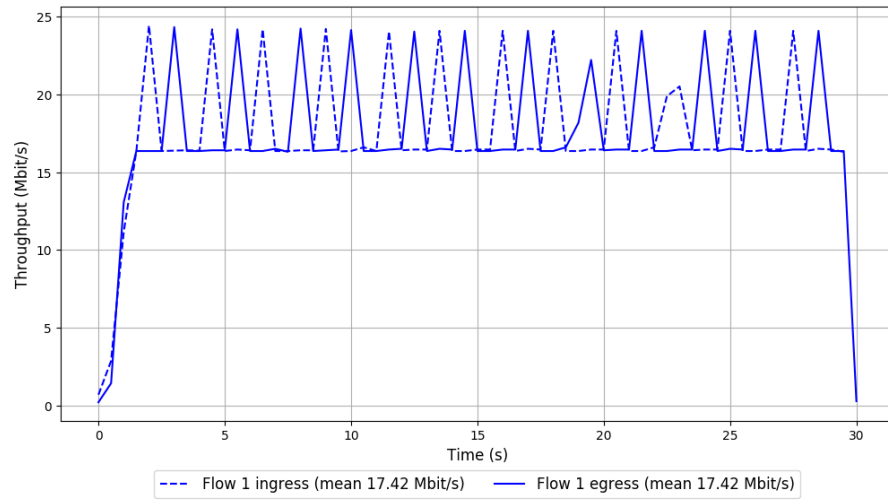
-- Flow 1:

Average throughput: 17.42 Mbit/s

95th percentile per-packet one-way delay: 107.324 ms

Loss rate: 0.00%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2017-10-10 20:15:43

End at: 2017-10-10 20:16:13

Below is generated by plot.py at 2017-10-10 22:29:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 62.64 Mbit/s

95th percentile per-packet one-way delay: 108.034 ms

Loss rate: 0.00%

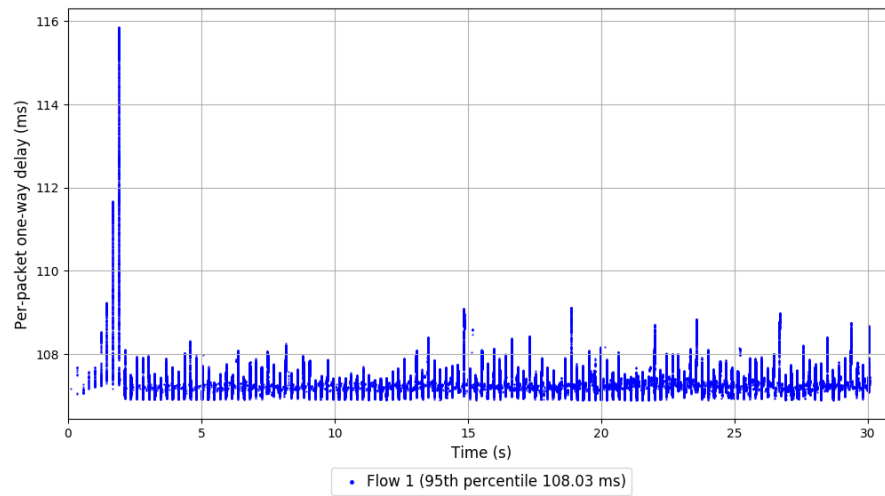
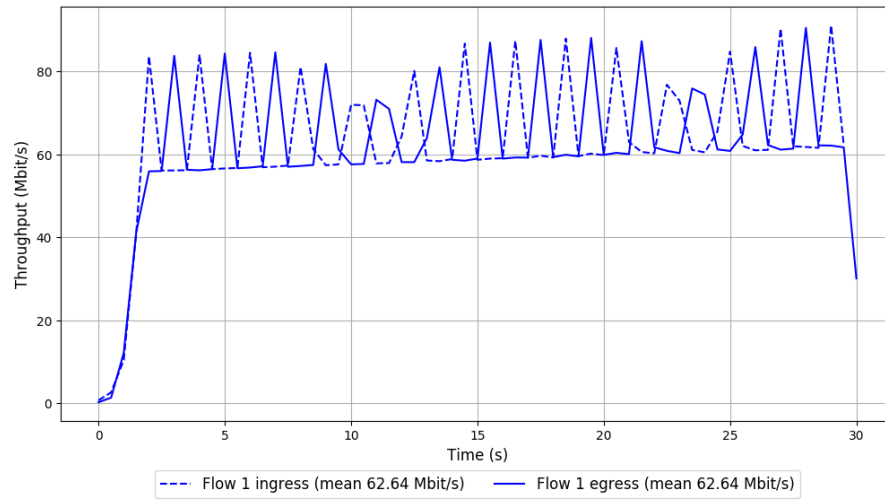
-- Flow 1:

Average throughput: 62.64 Mbit/s

95th percentile per-packet one-way delay: 108.034 ms

Loss rate: 0.00%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2017-10-10 20:26:44

End at: 2017-10-10 20:27:14

Below is generated by plot.py at 2017-10-10 22:29:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 76.43 Mbit/s

95th percentile per-packet one-way delay: 107.810 ms

Loss rate: 0.01%

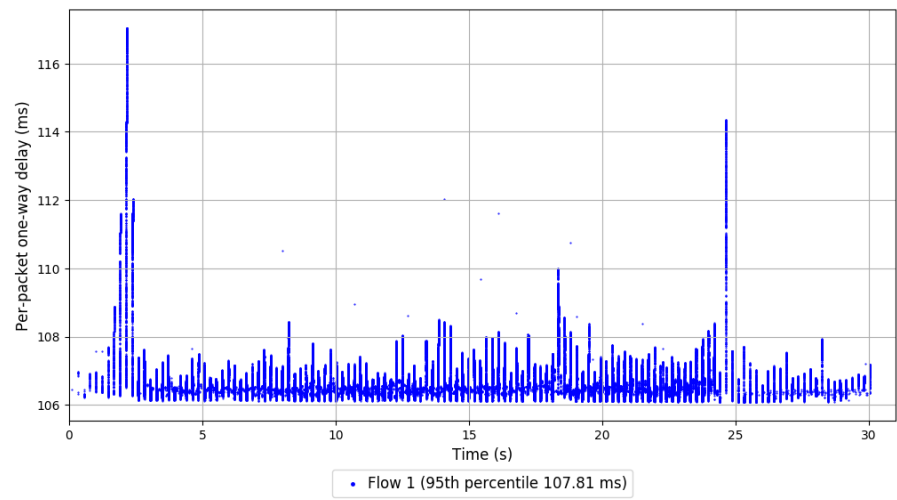
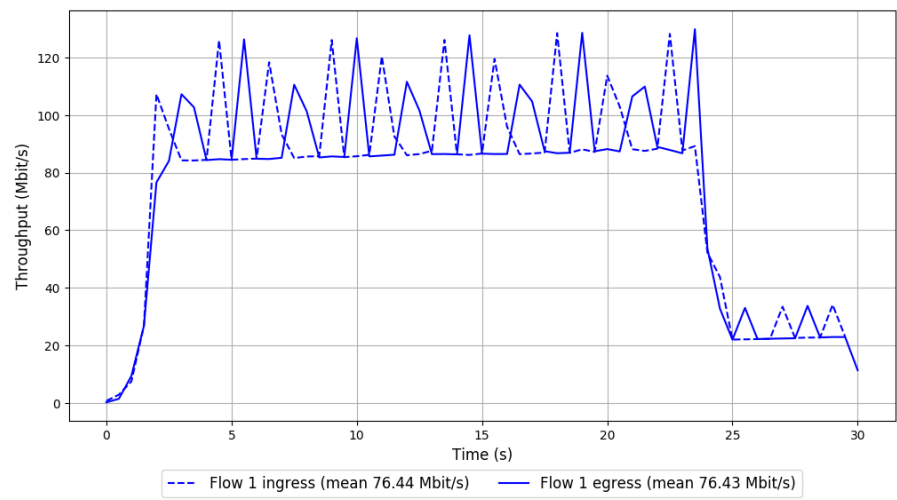
-- Flow 1:

Average throughput: 76.43 Mbit/s

95th percentile per-packet one-way delay: 107.810 ms

Loss rate: 0.01%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2017-10-10 20:38:17

End at: 2017-10-10 20:38:47

Below is generated by plot.py at 2017-10-10 22:29:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 101.11 Mbit/s

95th percentile per-packet one-way delay: 111.680 ms

Loss rate: 0.00%

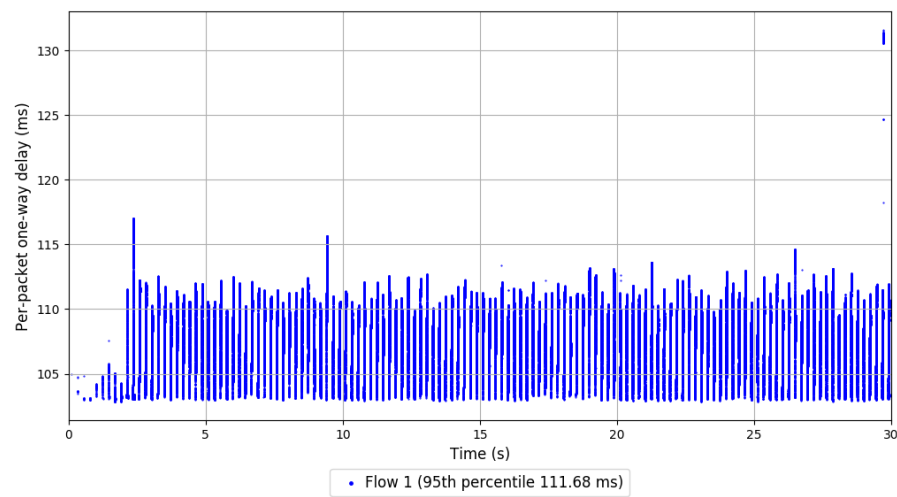
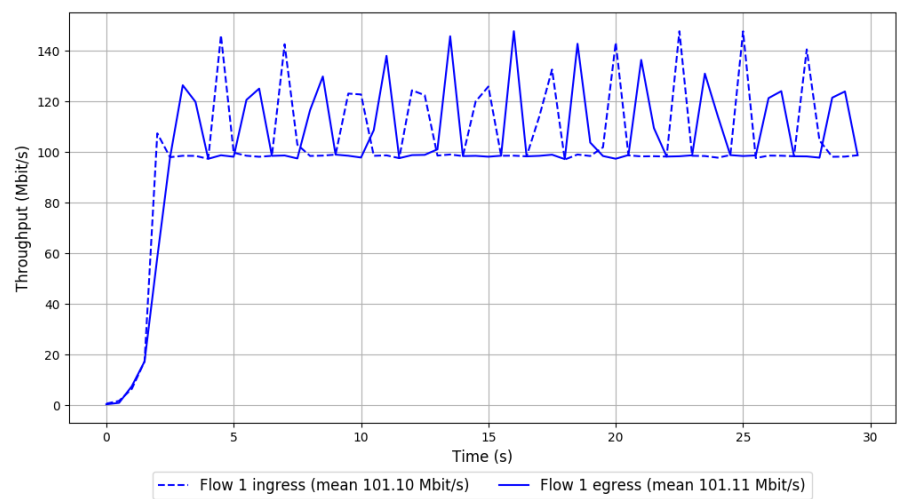
-- Flow 1:

Average throughput: 101.11 Mbit/s

95th percentile per-packet one-way delay: 111.680 ms

Loss rate: 0.00%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2017-10-10 20:49:21

End at: 2017-10-10 20:49:51

Below is generated by plot.py at 2017-10-10 22:29:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 55.57 Mbit/s

95th percentile per-packet one-way delay: 104.715 ms

Loss rate: 0.00%

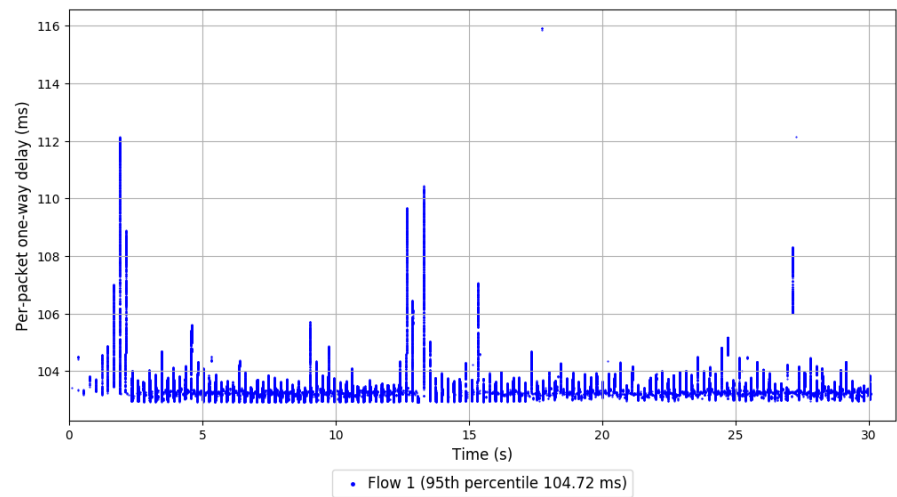
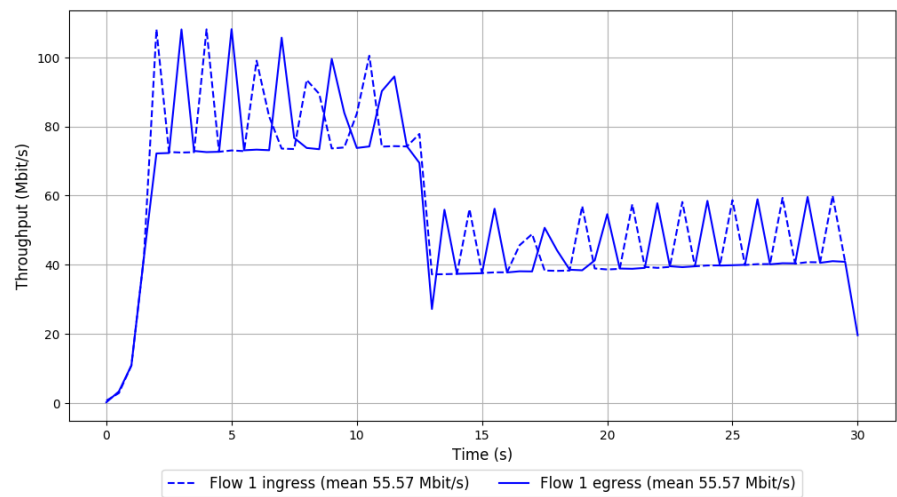
-- Flow 1:

Average throughput: 55.57 Mbit/s

95th percentile per-packet one-way delay: 104.715 ms

Loss rate: 0.00%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2017-10-10 21:00:46

End at: 2017-10-10 21:01:16

Below is generated by plot.py at 2017-10-10 22:29:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 98.98 Mbit/s

95th percentile per-packet one-way delay: 107.785 ms

Loss rate: 0.00%

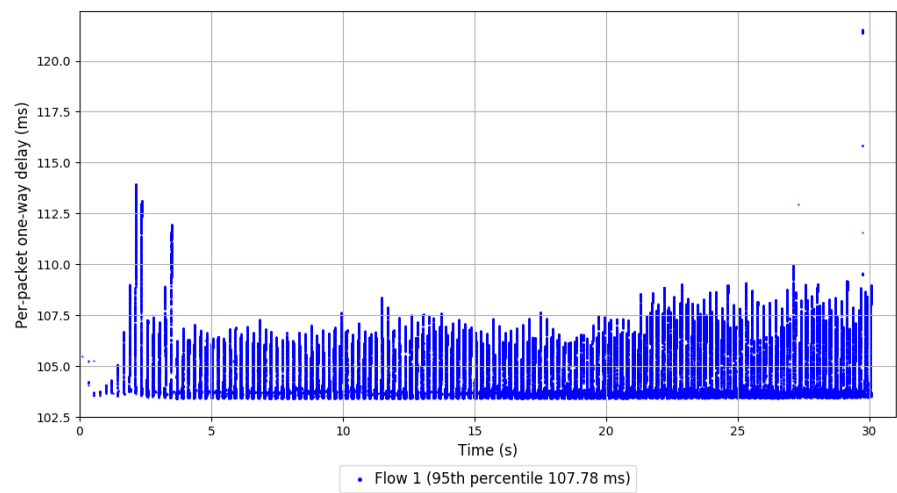
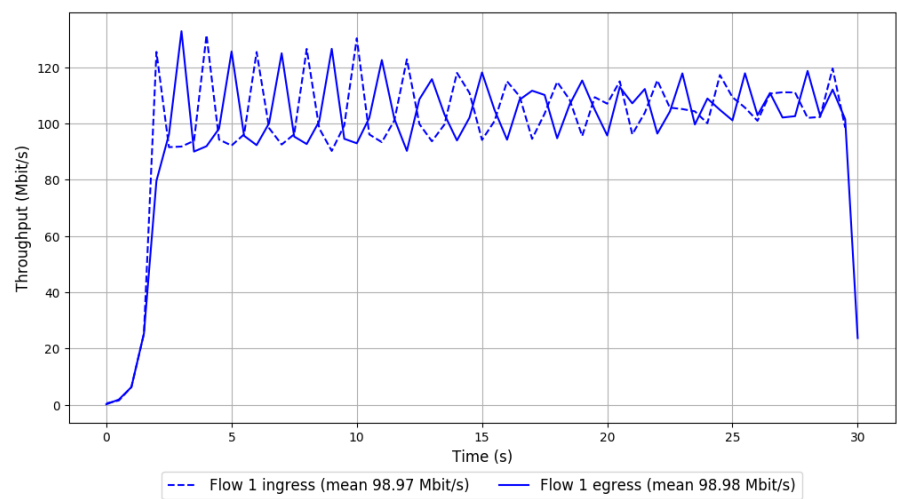
-- Flow 1:

Average throughput: 98.98 Mbit/s

95th percentile per-packet one-way delay: 107.785 ms

Loss rate: 0.00%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2017-10-10 21:12:11

End at: 2017-10-10 21:12:41

Below is generated by plot.py at 2017-10-10 22:29:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 59.30 Mbit/s

95th percentile per-packet one-way delay: 107.135 ms

Loss rate: 0.00%

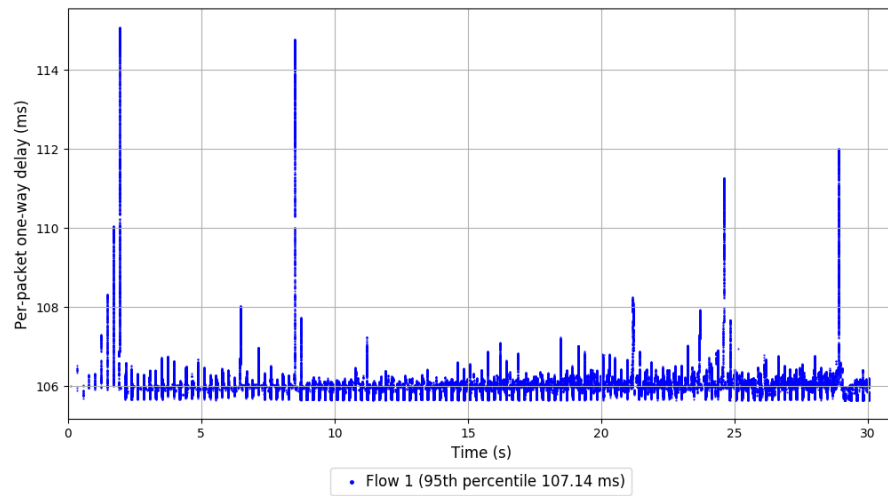
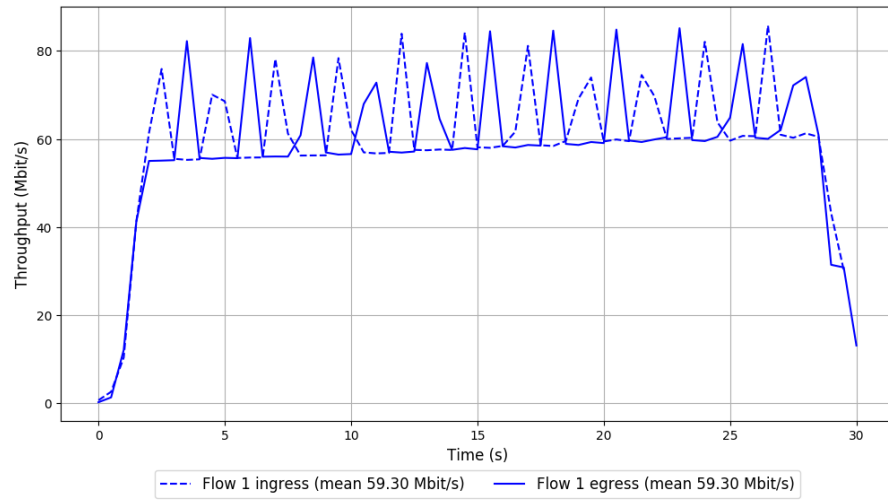
-- Flow 1:

Average throughput: 59.30 Mbit/s

95th percentile per-packet one-way delay: 107.135 ms

Loss rate: 0.00%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2017-10-10 19:31:19

End at: 2017-10-10 19:31:49

Below is generated by plot.py at 2017-10-10 22:32:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 217.86 Mbit/s

95th percentile per-packet one-way delay: 135.179 ms

Loss rate: 0.00%

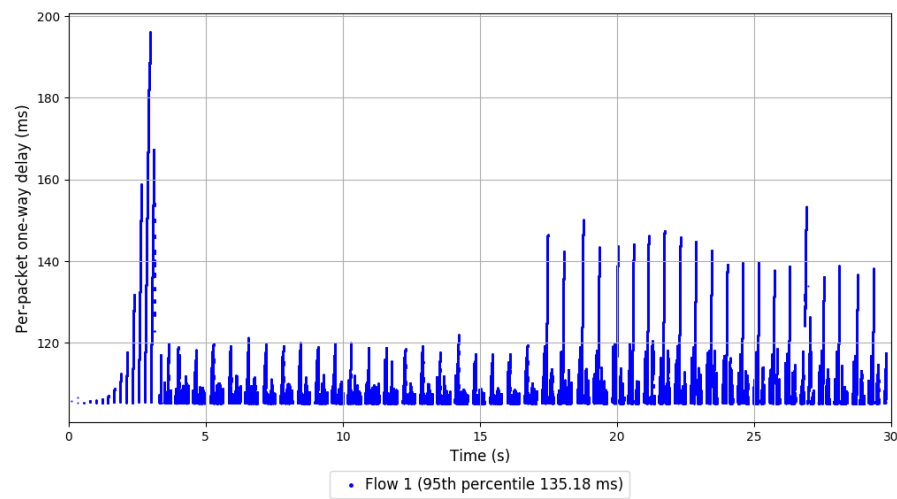
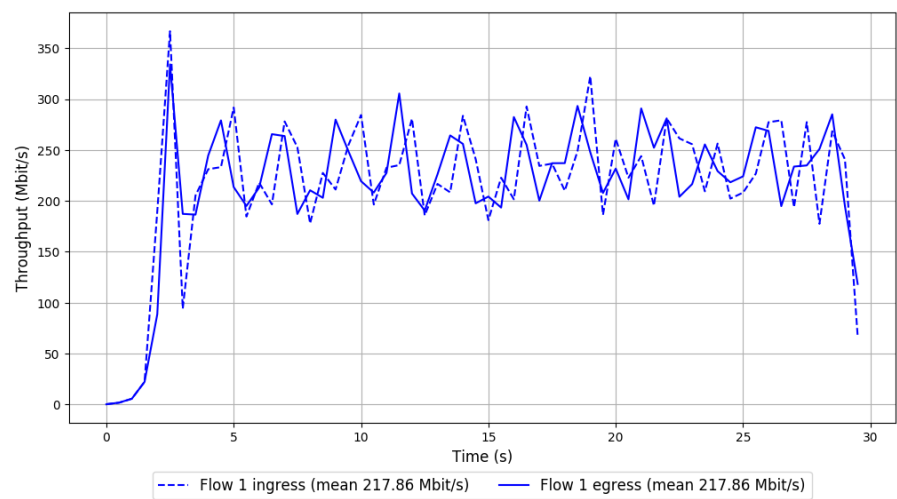
-- Flow 1:

Average throughput: 217.86 Mbit/s

95th percentile per-packet one-way delay: 135.179 ms

Loss rate: 0.00%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2017-10-10 19:42:55

End at: 2017-10-10 19:43:25

Below is generated by plot.py at 2017-10-10 22:32:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 238.77 Mbit/s

95th percentile per-packet one-way delay: 166.349 ms

Loss rate: 0.09%

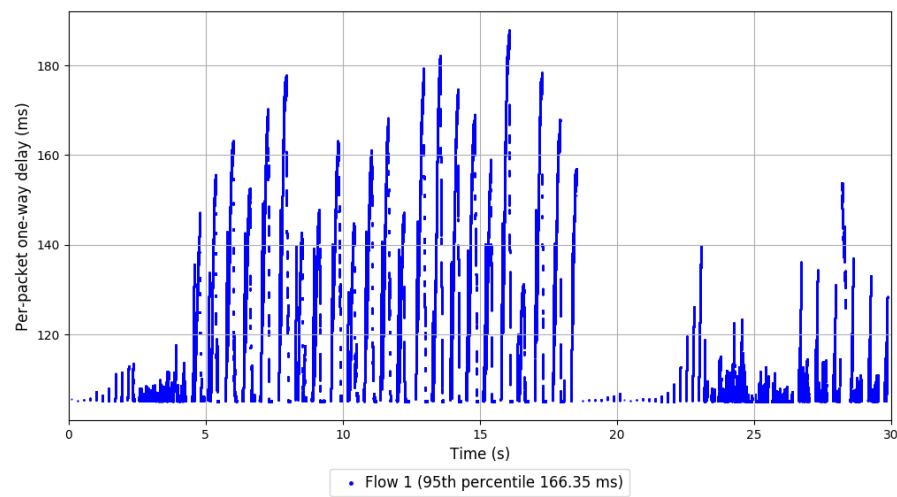
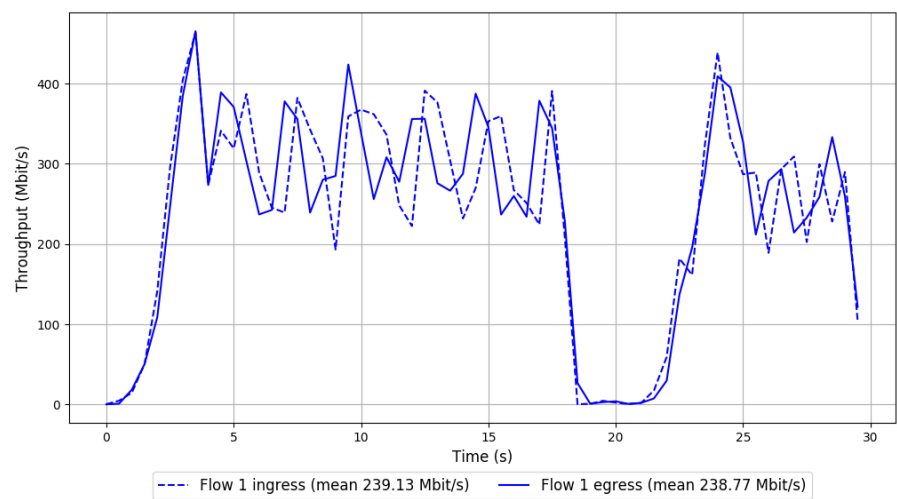
-- Flow 1:

Average throughput: 238.77 Mbit/s

95th percentile per-packet one-way delay: 166.349 ms

Loss rate: 0.09%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2017-10-10 19:54:28

End at: 2017-10-10 19:54:58

Below is generated by plot.py at 2017-10-10 22:32:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 172.64 Mbit/s

95th percentile per-packet one-way delay: 206.688 ms

Loss rate: 2.53%

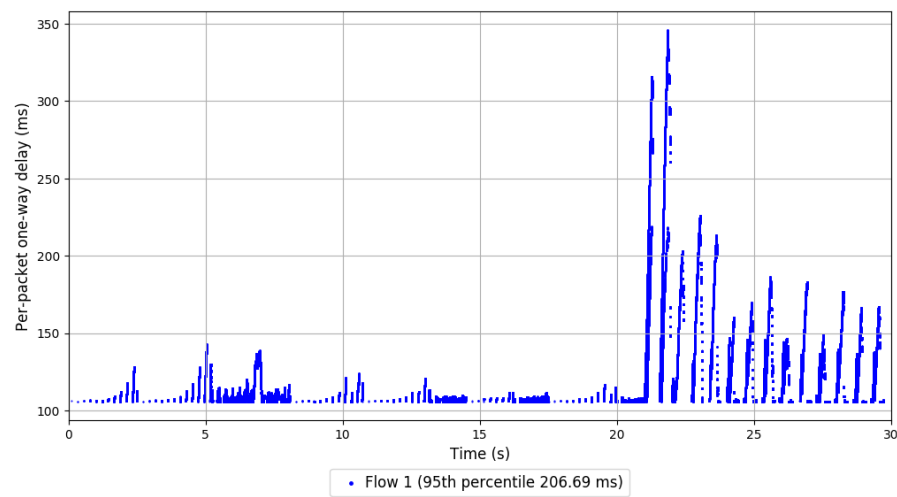
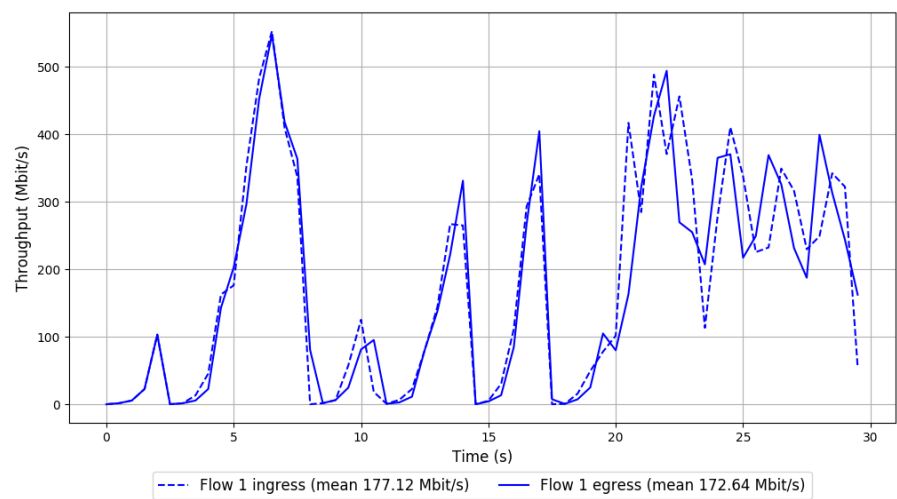
-- Flow 1:

Average throughput: 172.64 Mbit/s

95th percentile per-packet one-way delay: 206.688 ms

Loss rate: 2.53%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2017-10-10 20:05:13

End at: 2017-10-10 20:05:43

Below is generated by plot.py at 2017-10-10 22:32:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 224.00 Mbit/s

95th percentile per-packet one-way delay: 138.735 ms

Loss rate: 0.45%

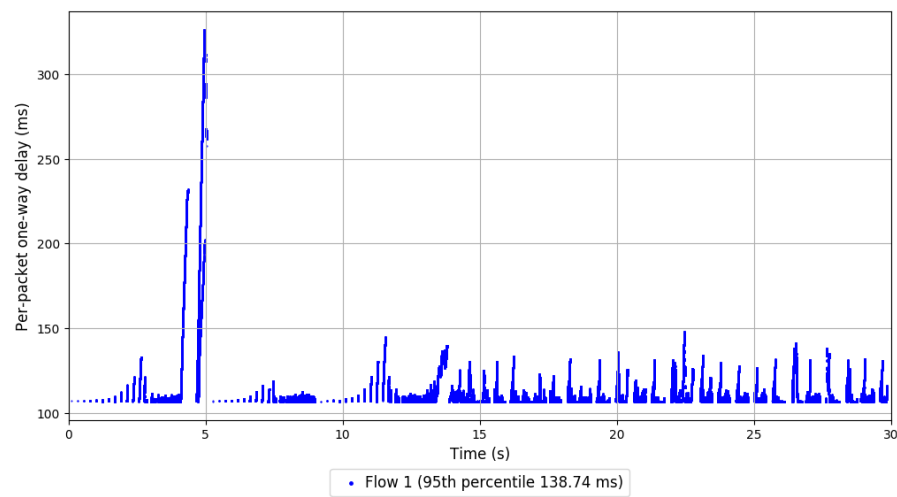
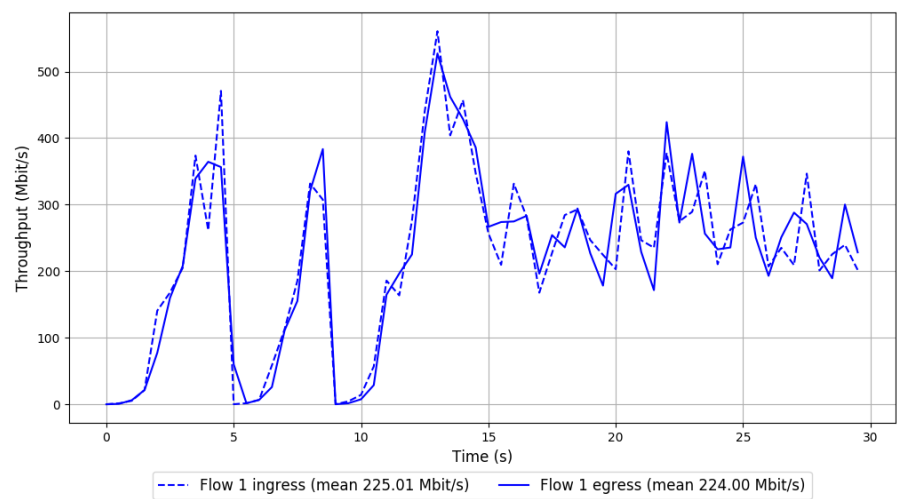
-- Flow 1:

Average throughput: 224.00 Mbit/s

95th percentile per-packet one-way delay: 138.735 ms

Loss rate: 0.45%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2017-10-10 20:16:27

End at: 2017-10-10 20:16:57

Below is generated by plot.py at 2017-10-10 22:32:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 220.10 Mbit/s

95th percentile per-packet one-way delay: 133.639 ms

Loss rate: 0.00%

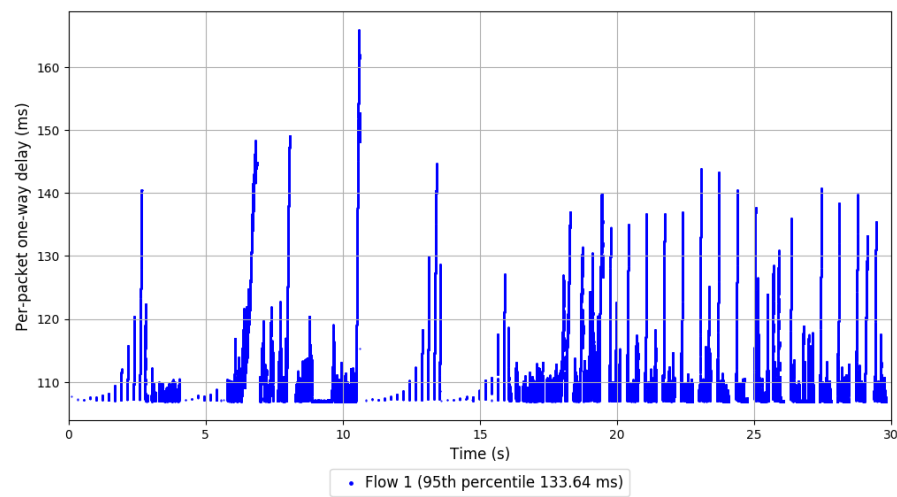
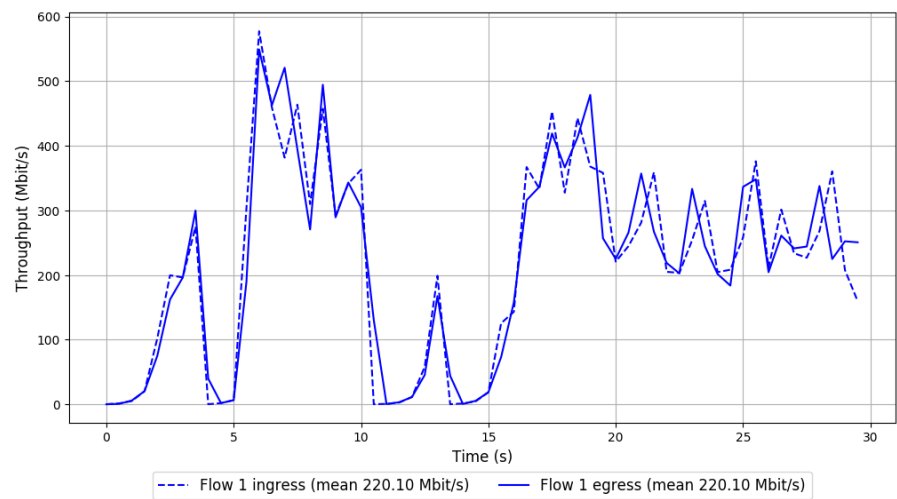
-- Flow 1:

Average throughput: 220.10 Mbit/s

95th percentile per-packet one-way delay: 133.639 ms

Loss rate: 0.00%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2017-10-10 20:27:29

End at: 2017-10-10 20:27:59

Below is generated by plot.py at 2017-10-10 22:32:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 120.37 Mbit/s

95th percentile per-packet one-way delay: 117.589 ms

Loss rate: 0.00%

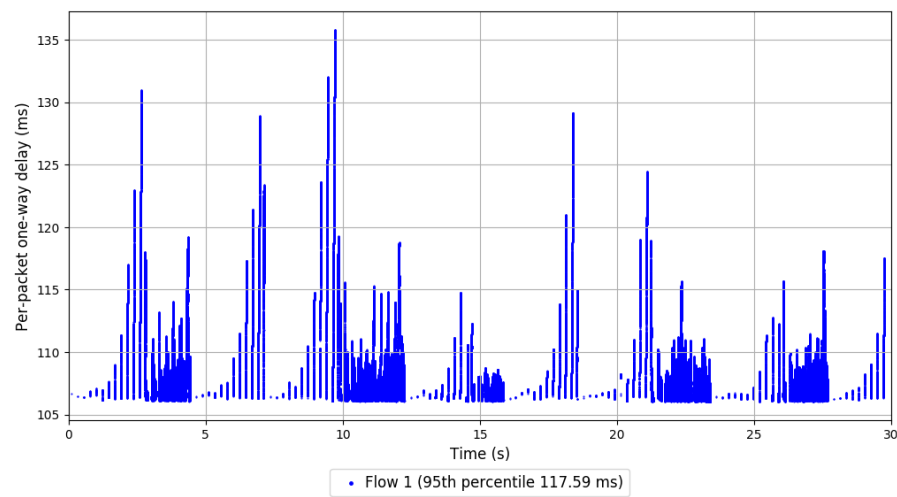
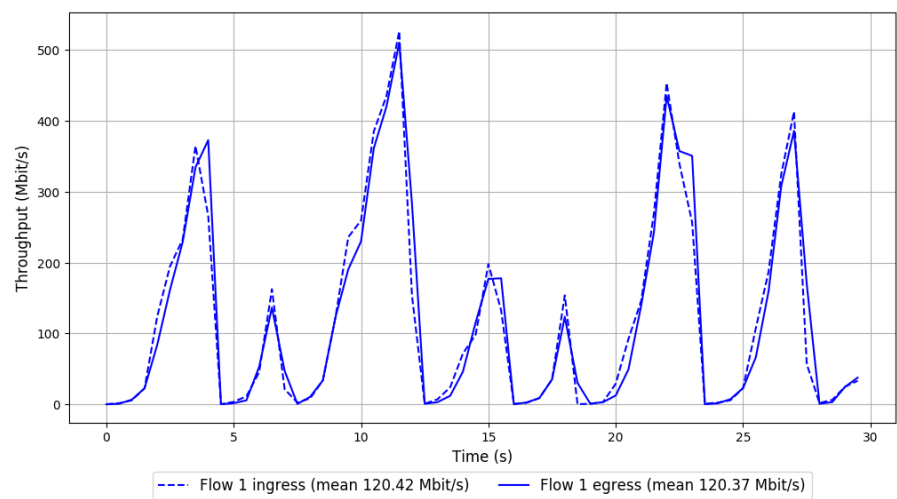
-- Flow 1:

Average throughput: 120.37 Mbit/s

95th percentile per-packet one-way delay: 117.589 ms

Loss rate: 0.00%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2017-10-10 20:39:04

End at: 2017-10-10 20:39:34

Below is generated by plot.py at 2017-10-10 22:32:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 127.45 Mbit/s

95th percentile per-packet one-way delay: 119.725 ms

Loss rate: 0.00%

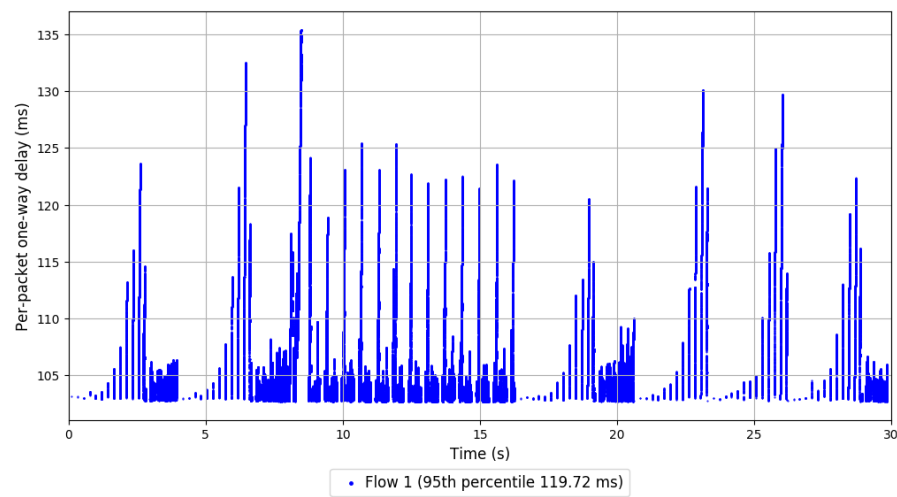
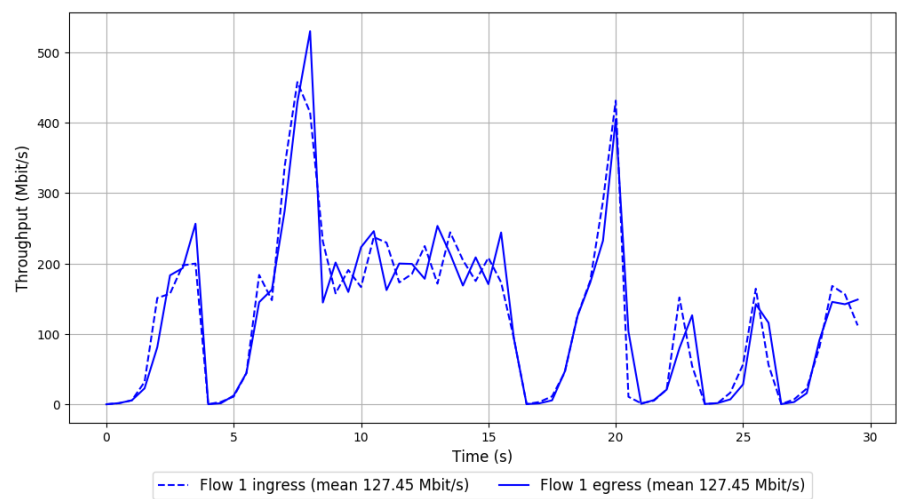
-- Flow 1:

Average throughput: 127.45 Mbit/s

95th percentile per-packet one-way delay: 119.725 ms

Loss rate: 0.00%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2017-10-10 20:50:05

End at: 2017-10-10 20:50:35

Below is generated by plot.py at 2017-10-10 22:32:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 165.43 Mbit/s

95th percentile per-packet one-way delay: 131.351 ms

Loss rate: 0.07%

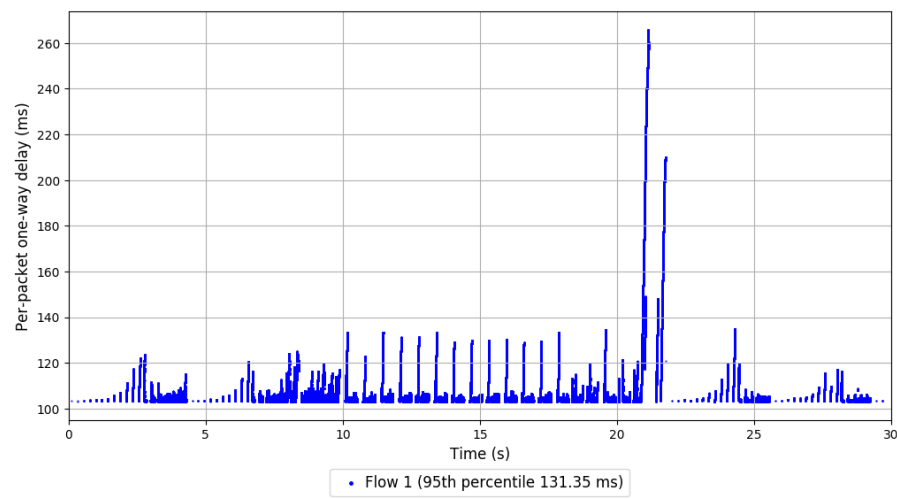
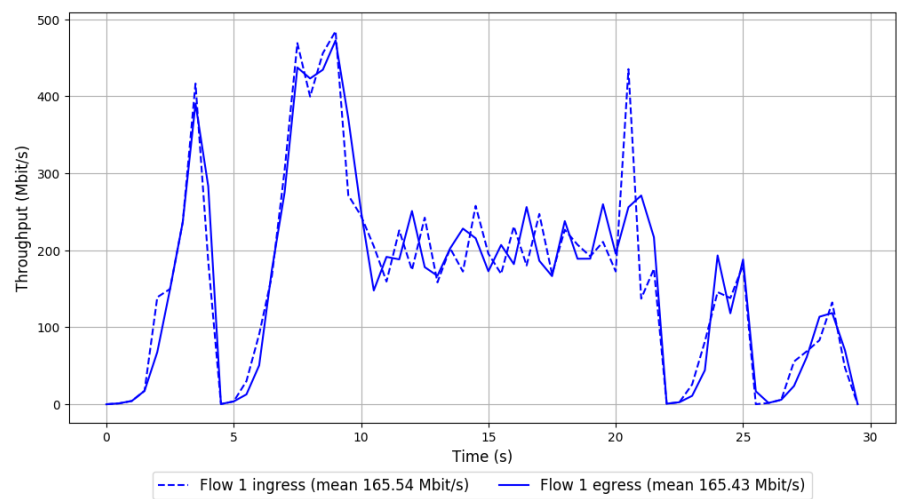
-- Flow 1:

Average throughput: 165.43 Mbit/s

95th percentile per-packet one-way delay: 131.351 ms

Loss rate: 0.07%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2017-10-10 21:01:33

End at: 2017-10-10 21:02:03

Below is generated by plot.py at 2017-10-10 22:36:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 264.70 Mbit/s

95th percentile per-packet one-way delay: 149.957 ms

Loss rate: 0.05%

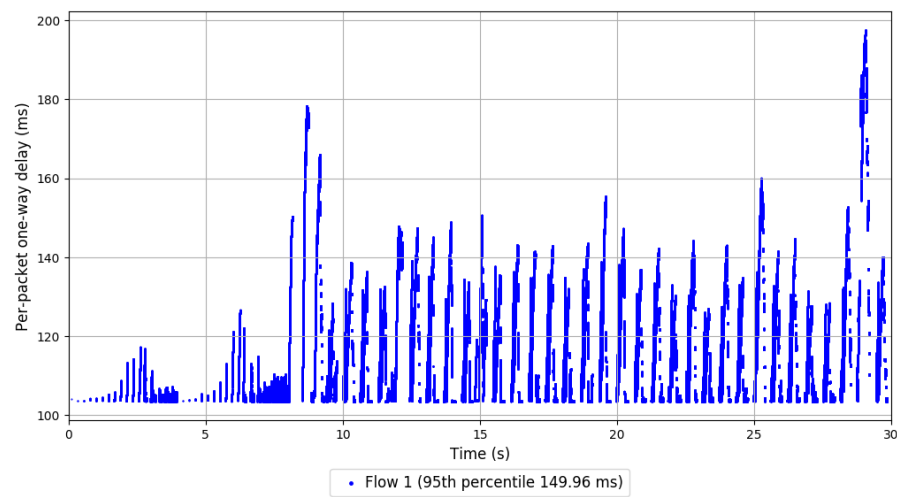
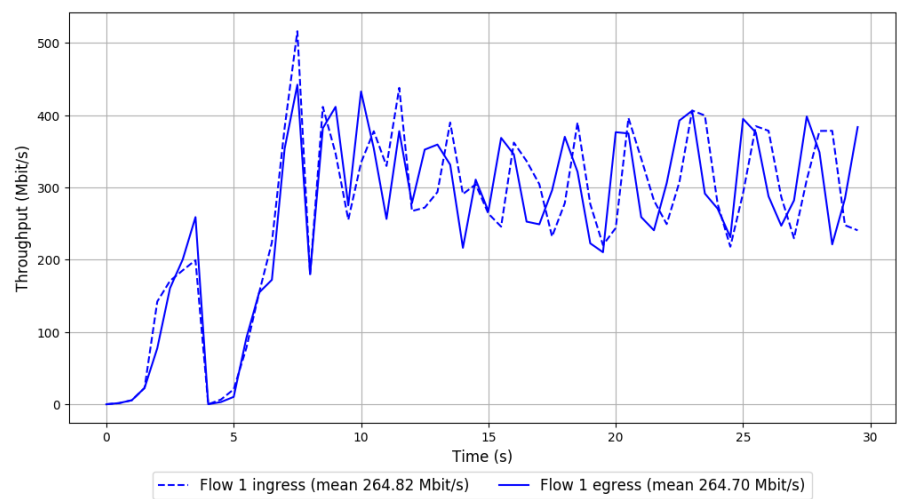
-- Flow 1:

Average throughput: 264.70 Mbit/s

95th percentile per-packet one-way delay: 149.957 ms

Loss rate: 0.05%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2017-10-10 21:12:55

End at: 2017-10-10 21:13:25

Below is generated by plot.py at 2017-10-10 22:36:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 218.08 Mbit/s

95th percentile per-packet one-way delay: 152.121 ms

Loss rate: 0.31%

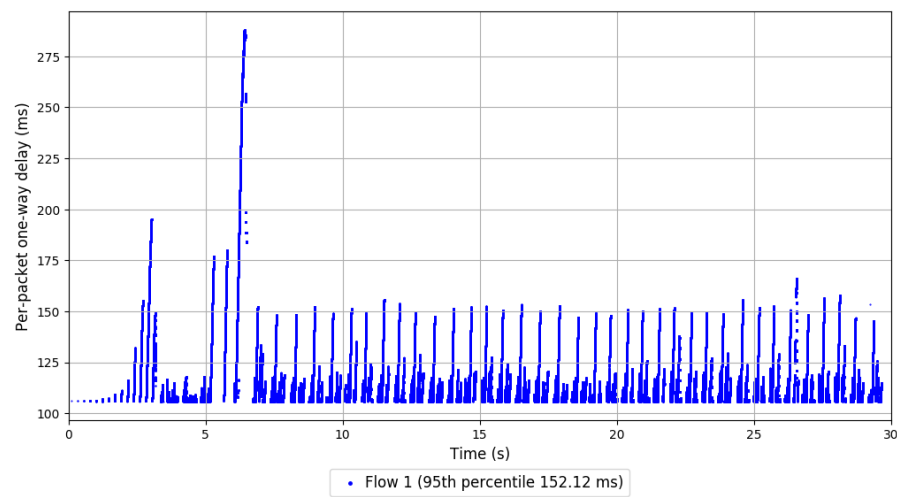
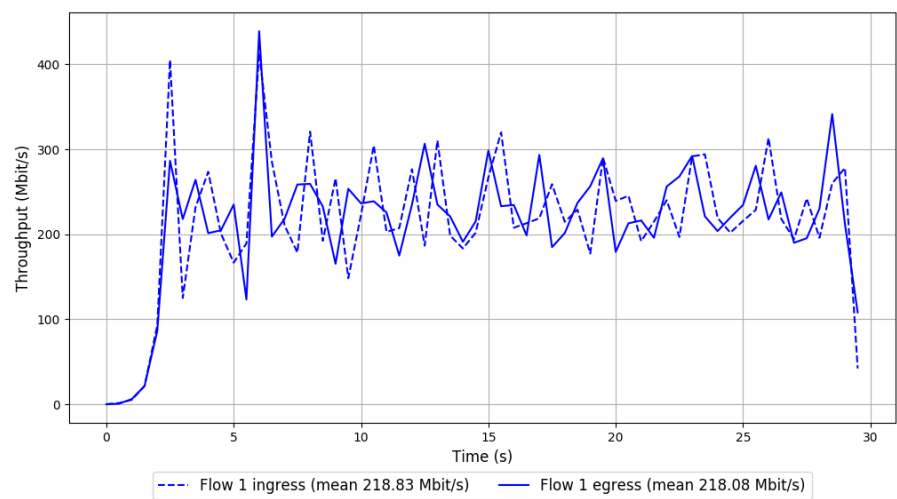
-- Flow 1:

Average throughput: 218.08 Mbit/s

95th percentile per-packet one-way delay: 152.121 ms

Loss rate: 0.31%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2017-10-10 19:29:43

End at: 2017-10-10 19:30:13

Below is generated by plot.py at 2017-10-10 22:36:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.48 Mbit/s

95th percentile per-packet one-way delay: 107.454 ms

Loss rate: 0.00%

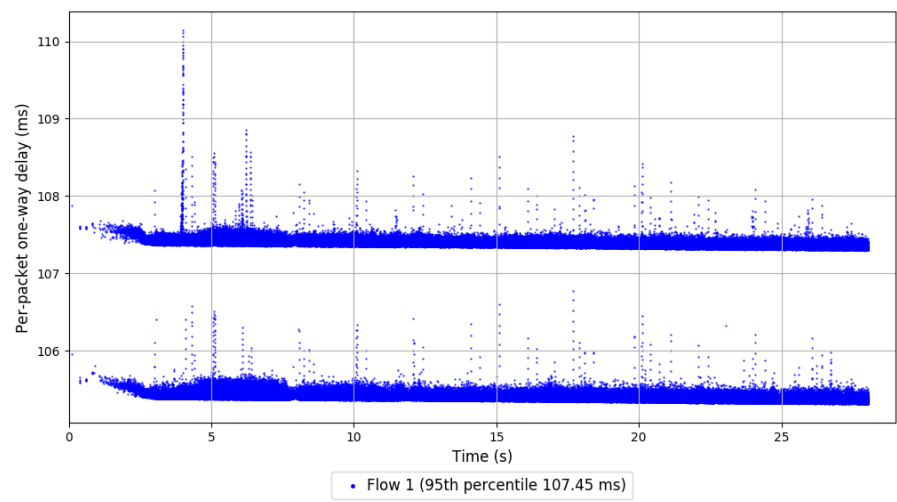
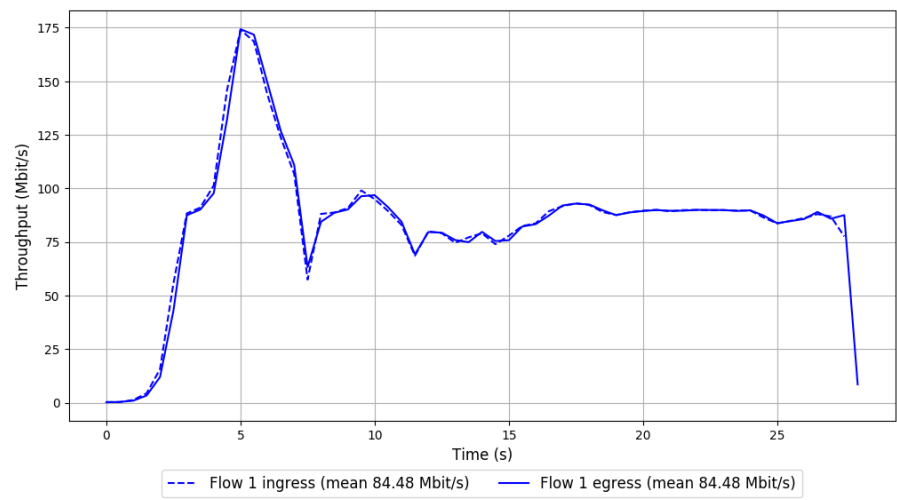
-- Flow 1:

Average throughput: 84.48 Mbit/s

95th percentile per-packet one-way delay: 107.454 ms

Loss rate: 0.00%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2017-10-10 19:41:21

End at: 2017-10-10 19:41:51

Below is generated by plot.py at 2017-10-10 22:36:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.96 Mbit/s

95th percentile per-packet one-way delay: 105.405 ms

Loss rate: 0.01%

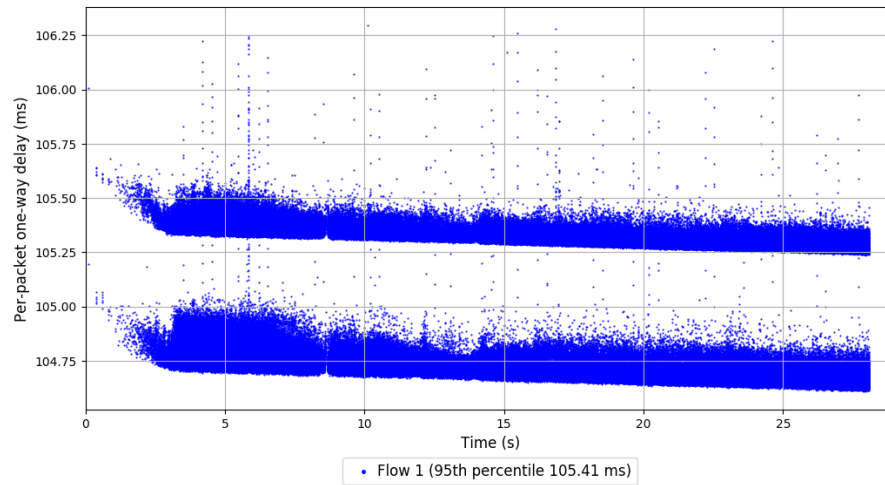
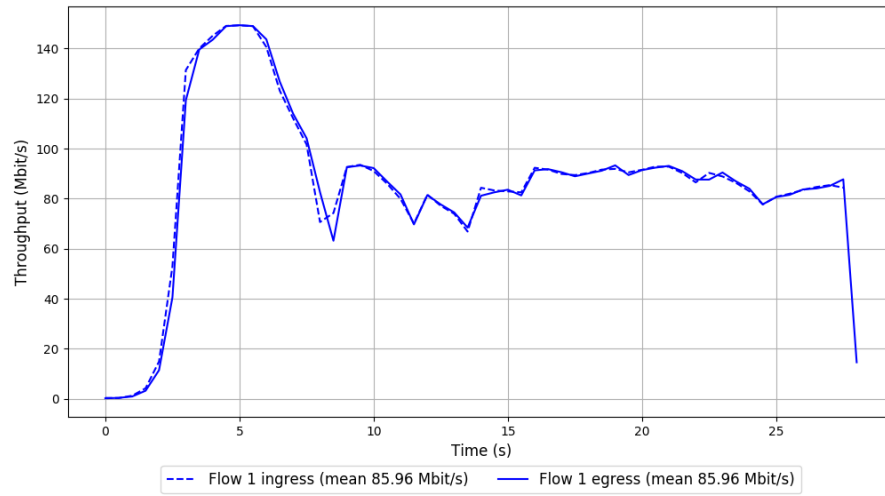
-- Flow 1:

Average throughput: 85.96 Mbit/s

95th percentile per-packet one-way delay: 105.405 ms

Loss rate: 0.01%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2017-10-10 19:52:53

End at: 2017-10-10 19:53:23

Below is generated by plot.py at 2017-10-10 22:37:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 161.75 Mbit/s

95th percentile per-packet one-way delay: 105.564 ms

Loss rate: 0.01%

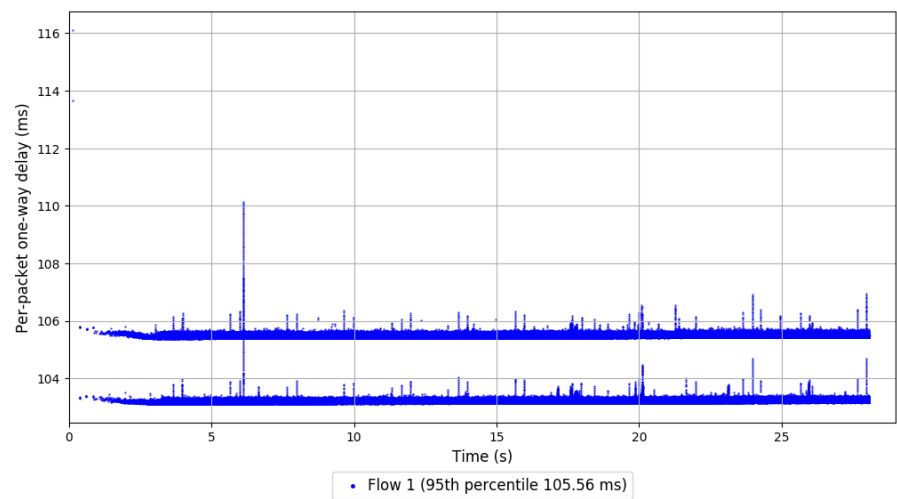
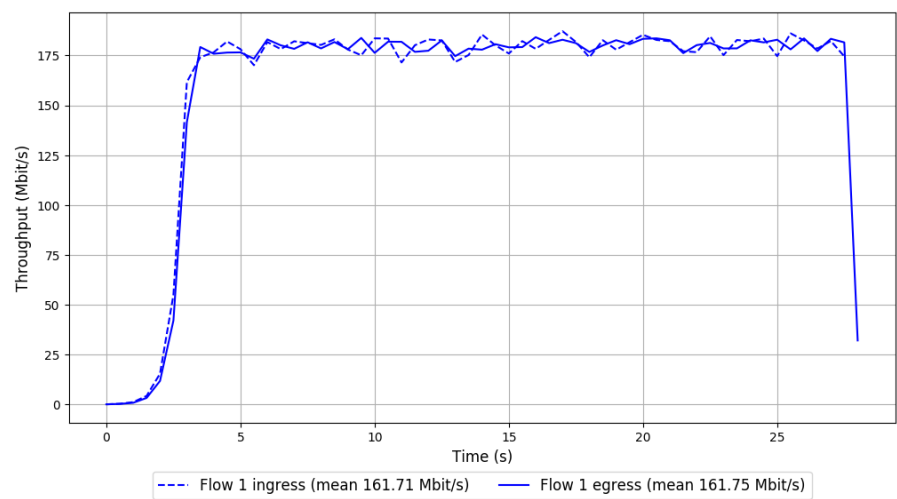
-- Flow 1:

Average throughput: 161.75 Mbit/s

95th percentile per-packet one-way delay: 105.564 ms

Loss rate: 0.01%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2017-10-10 20:03:45

End at: 2017-10-10 20:04:15

Below is generated by plot.py at 2017-10-10 22:37:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 67.30 Mbit/s

95th percentile per-packet one-way delay: 106.507 ms

Loss rate: 0.01%

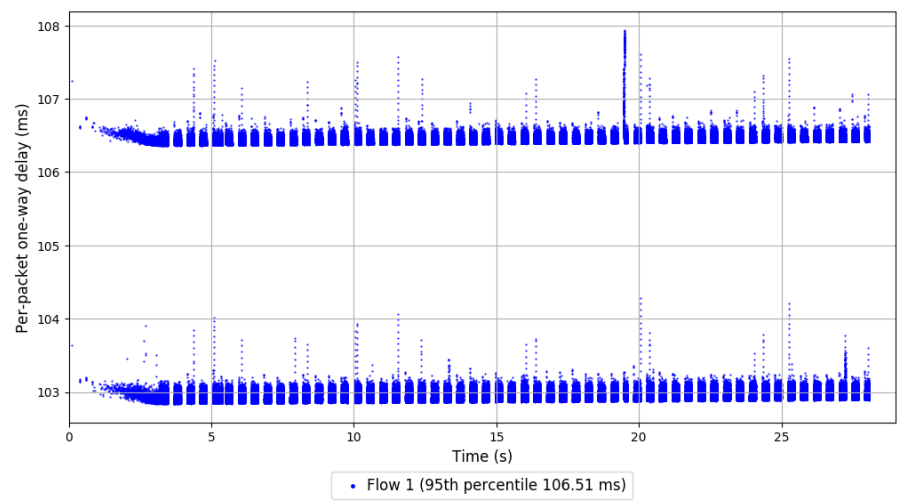
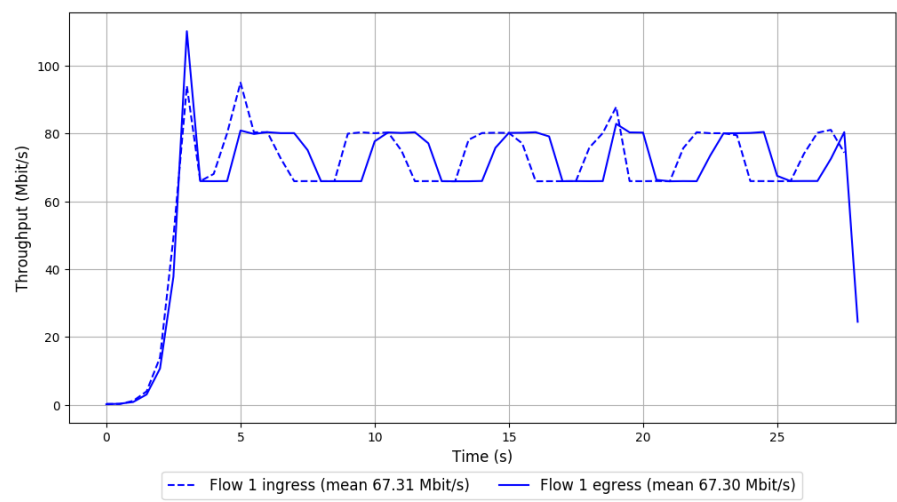
-- Flow 1:

Average throughput: 67.30 Mbit/s

95th percentile per-packet one-way delay: 106.507 ms

Loss rate: 0.01%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2017-10-10 20:14:54

End at: 2017-10-10 20:15:24

Below is generated by plot.py at 2017-10-10 22:37:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 79.19 Mbit/s

95th percentile per-packet one-way delay: 107.143 ms

Loss rate: 0.00%

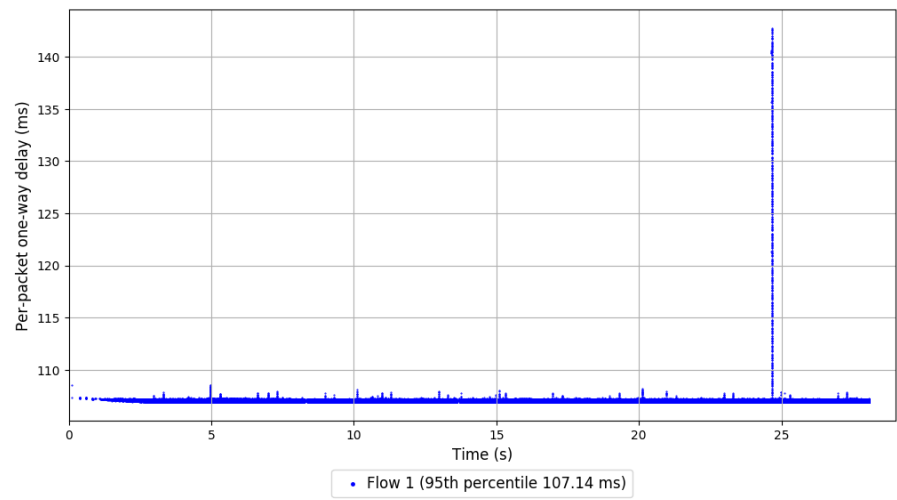
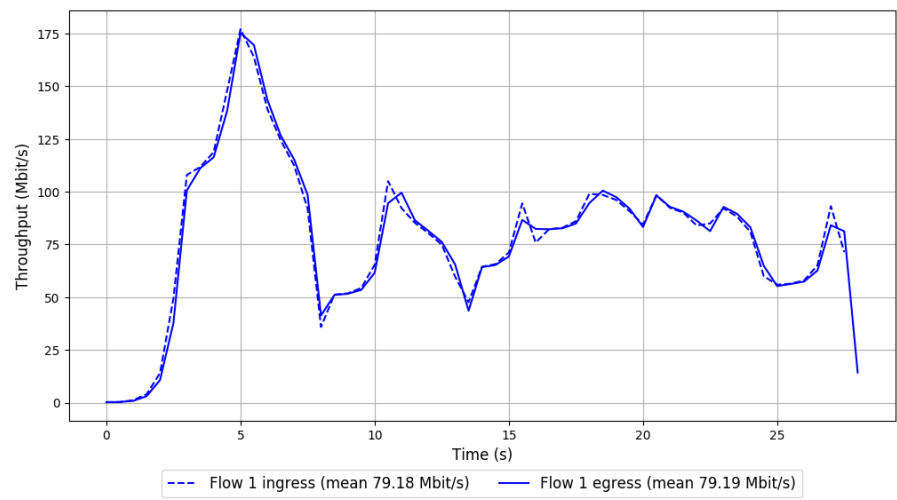
-- Flow 1:

Average throughput: 79.19 Mbit/s

95th percentile per-packet one-way delay: 107.143 ms

Loss rate: 0.00%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2017-10-10 20:25:55

End at: 2017-10-10 20:26:25

Below is generated by plot.py at 2017-10-10 22:37:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.13 Mbit/s

95th percentile per-packet one-way delay: 106.303 ms

Loss rate: 0.00%

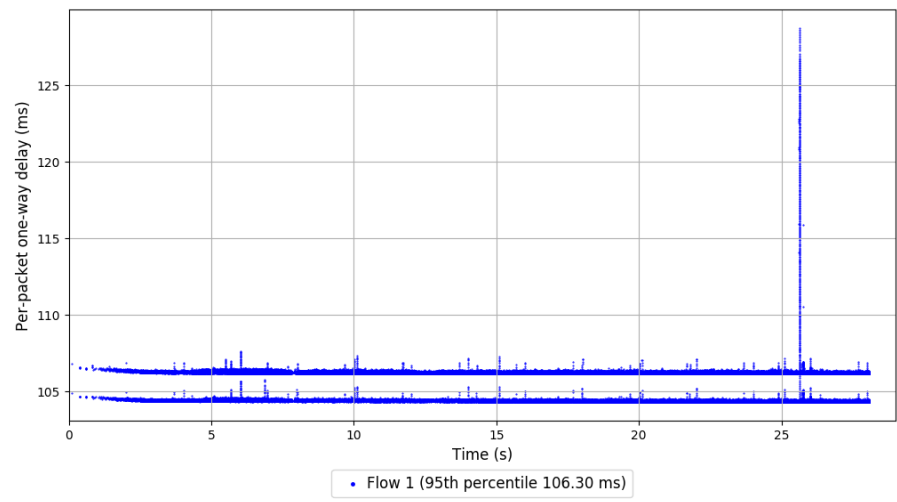
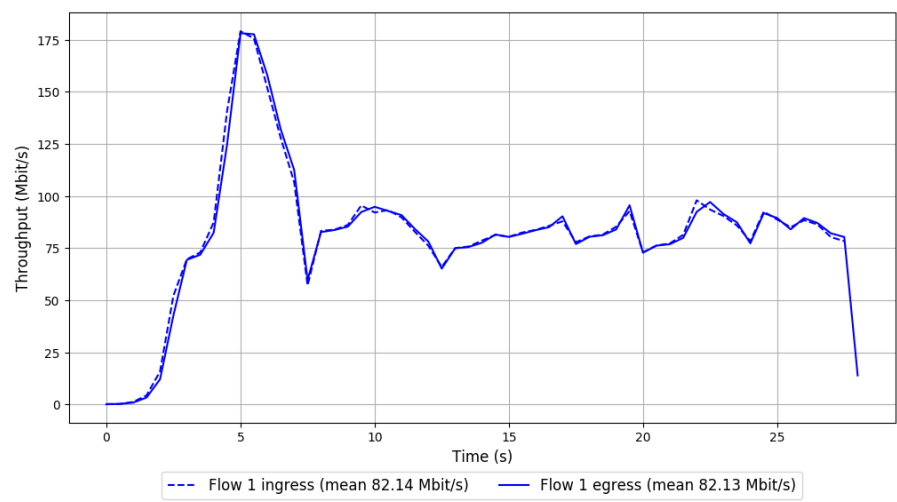
-- Flow 1:

Average throughput: 82.13 Mbit/s

95th percentile per-packet one-way delay: 106.303 ms

Loss rate: 0.00%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2017-10-10 20:37:28

End at: 2017-10-10 20:37:58

Below is generated by plot.py at 2017-10-10 22:37:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.33 Mbit/s

95th percentile per-packet one-way delay: 104.986 ms

Loss rate: 0.00%

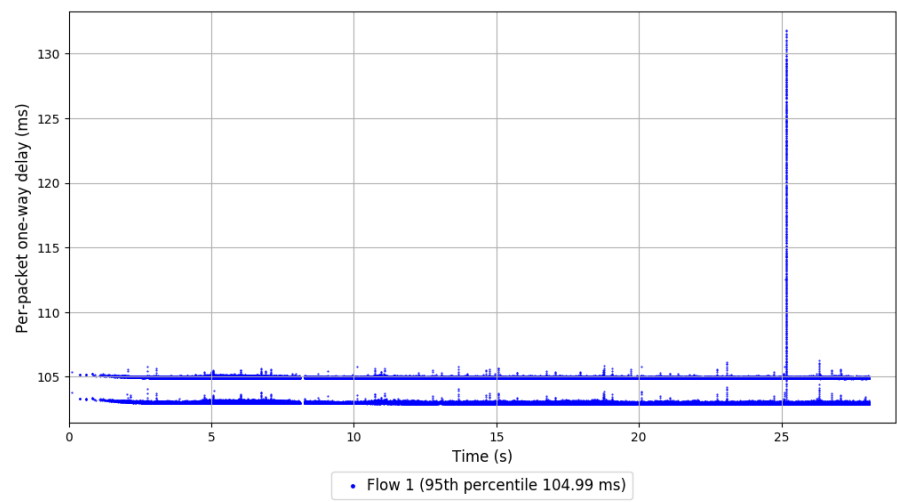
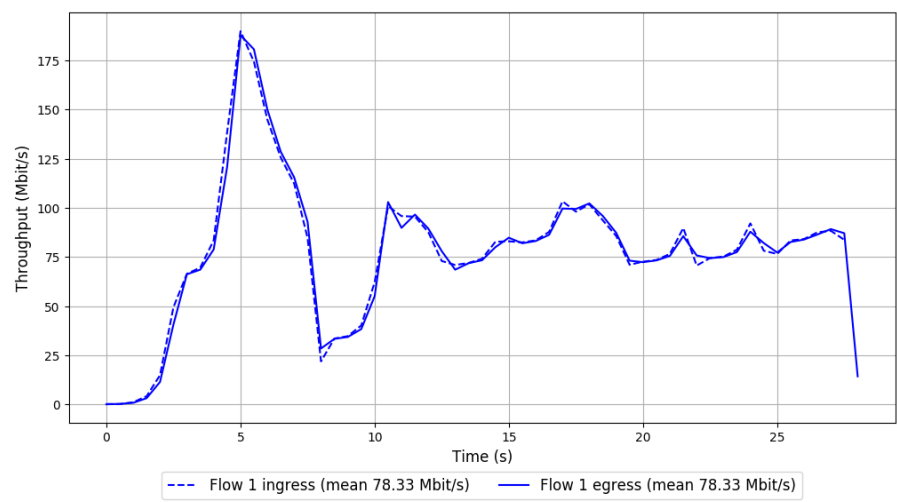
-- Flow 1:

Average throughput: 78.33 Mbit/s

95th percentile per-packet one-way delay: 104.986 ms

Loss rate: 0.00%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2017-10-10 20:48:38

End at: 2017-10-10 20:49:08

Below is generated by plot.py at 2017-10-10 22:37:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 18.73 Mbit/s

95th percentile per-packet one-way delay: 104.995 ms

Loss rate: 0.00%

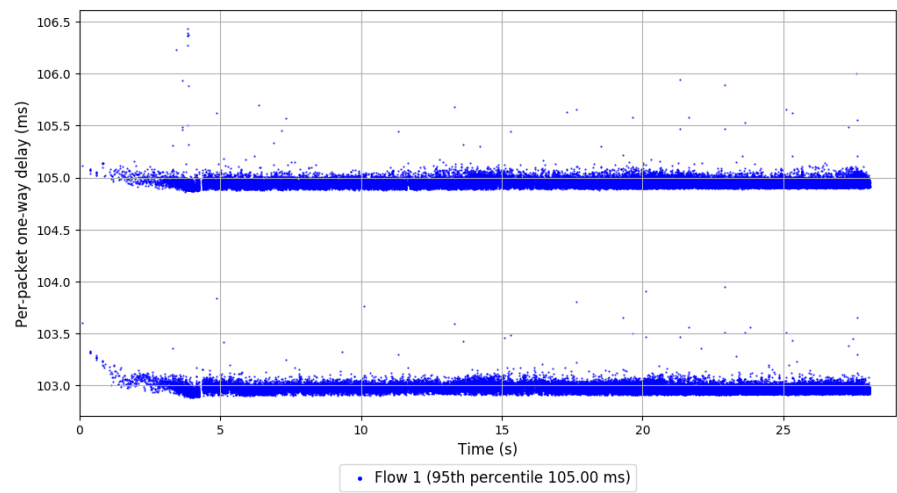
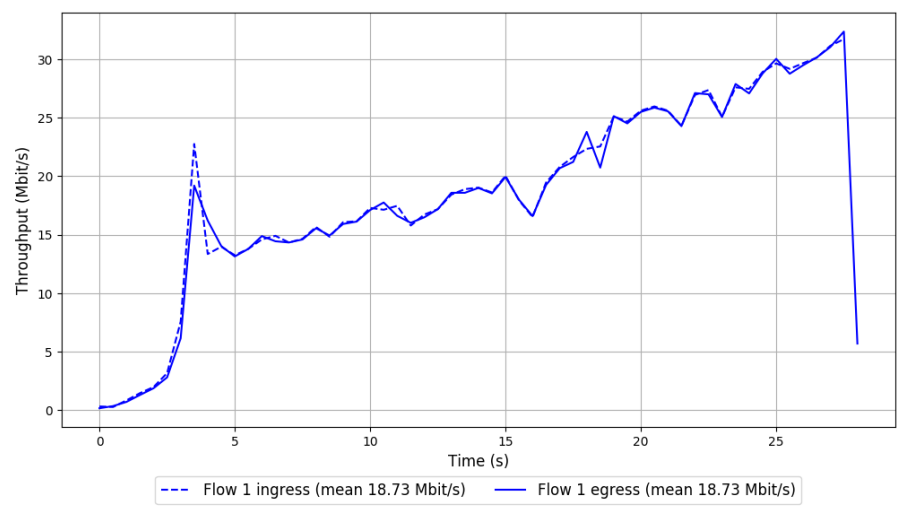
-- Flow 1:

Average throughput: 18.73 Mbit/s

95th percentile per-packet one-way delay: 104.995 ms

Loss rate: 0.00%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2017-10-10 20:59:56

End at: 2017-10-10 21:00:26

Below is generated by plot.py at 2017-10-10 22:38:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 121.95 Mbit/s

95th percentile per-packet one-way delay: 105.828 ms

Loss rate: 0.00%

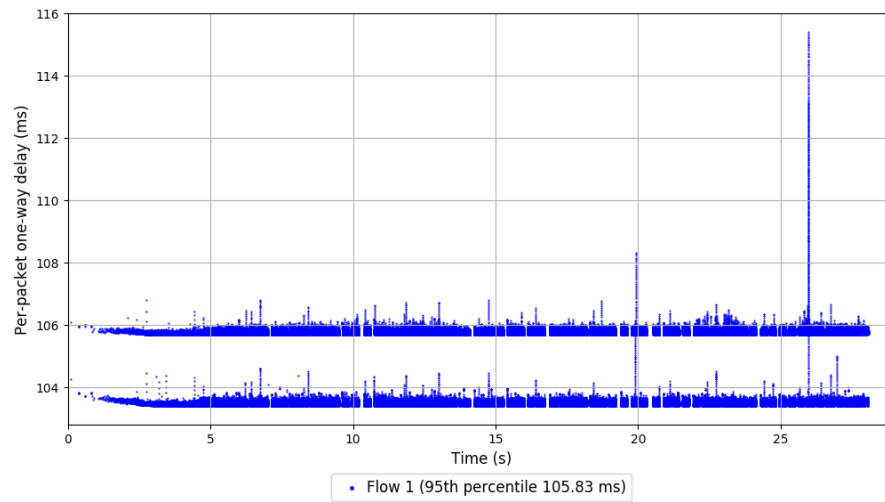
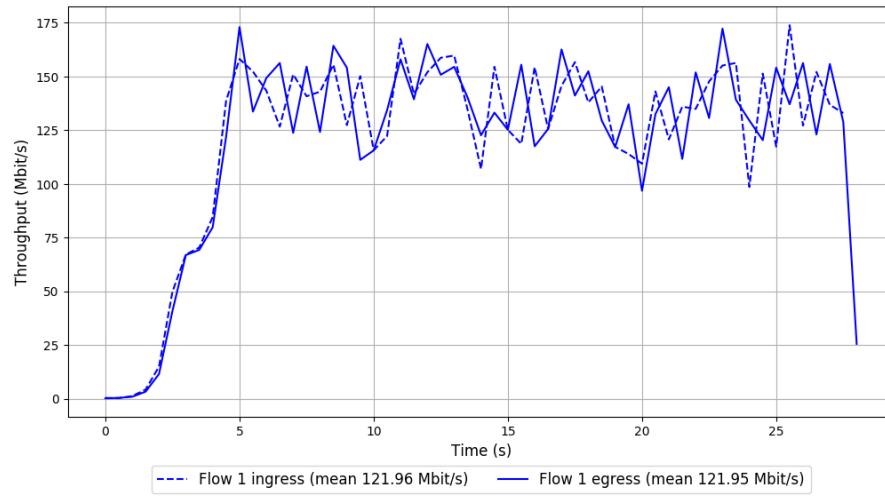
-- Flow 1:

Average throughput: 121.95 Mbit/s

95th percentile per-packet one-way delay: 105.828 ms

Loss rate: 0.00%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

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

End at: 2017-10-10 21:11:51

Below is generated by plot.py at 2017-10-10 22:38:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.63 Mbit/s

95th percentile per-packet one-way delay: 105.803 ms

Loss rate: 0.00%

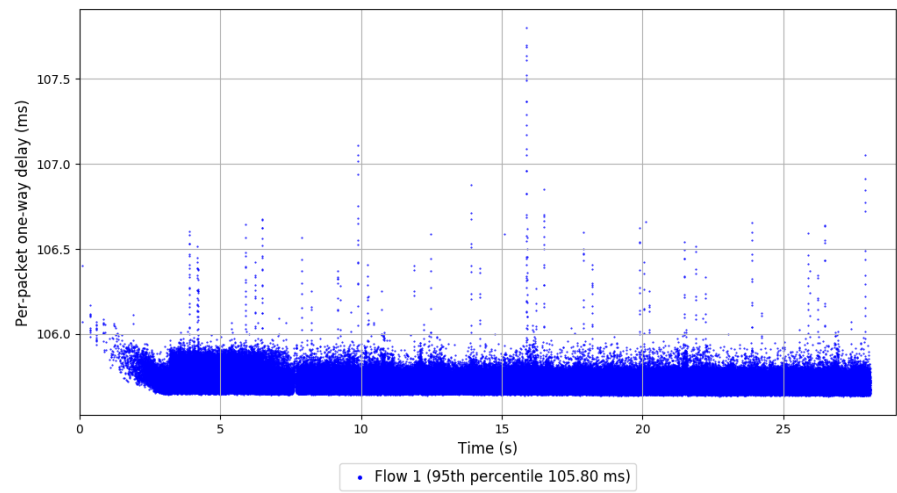
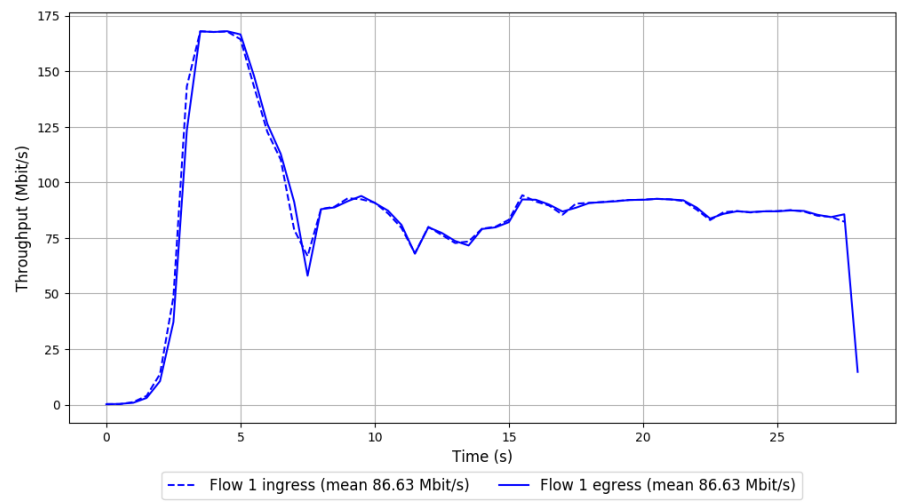
-- Flow 1:

Average throughput: 86.63 Mbit/s

95th percentile per-packet one-way delay: 105.803 ms

Loss rate: 0.00%

Run 10: Report of Copa — Data Link

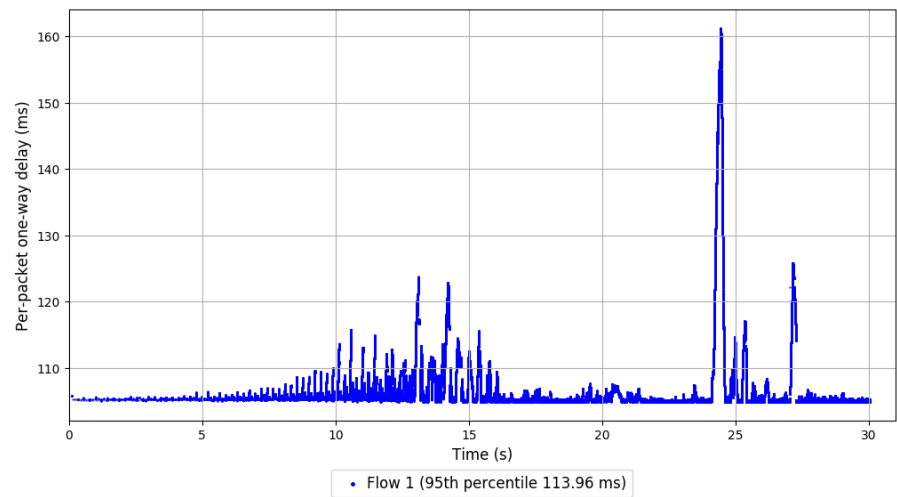
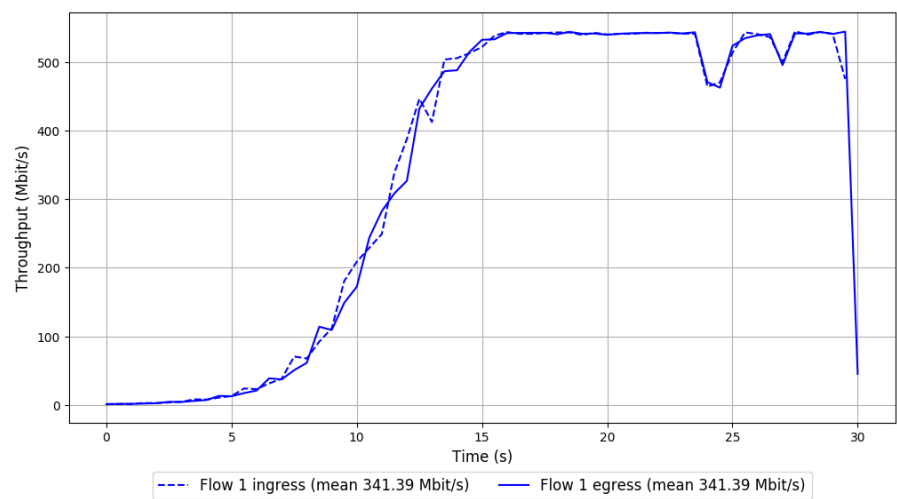


```
Run 1: Statistics of CalibratedKoho

Start at: 2017-10-10 19:32:16
End at: 2017-10-10 19:32:46

# Below is generated by plot.py at 2017-10-10 22:41:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 341.39 Mbit/s
95th percentile per-packet one-way delay: 113.957 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 341.39 Mbit/s
95th percentile per-packet one-way delay: 113.957 ms
Loss rate: 0.00%
```


Run 1: Report of CalibratedKoho — Data Link



Run 2: Statistics of CalibratedKoho

Start at: 2017-10-10 19:43:53

End at: 2017-10-10 19:44:23

Below is generated by plot.py at 2017-10-10 22:41:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 340.63 Mbit/s

95th percentile per-packet one-way delay: 111.199 ms

Loss rate: 0.01%

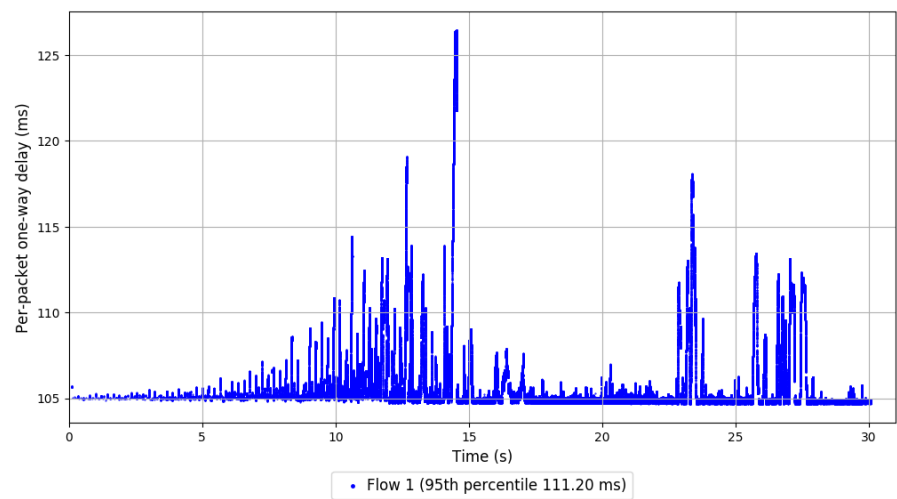
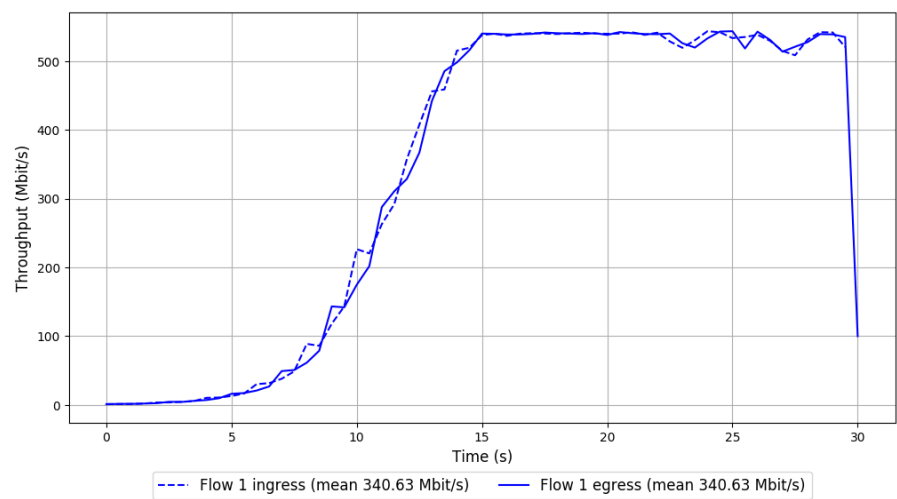
-- Flow 1:

Average throughput: 340.63 Mbit/s

95th percentile per-packet one-way delay: 111.199 ms

Loss rate: 0.01%

Run 2: Report of CalibratedKoho — Data Link

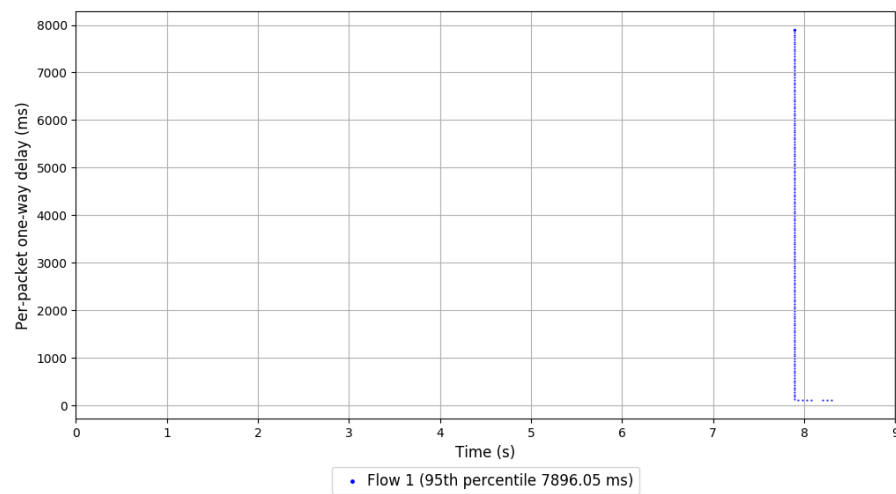
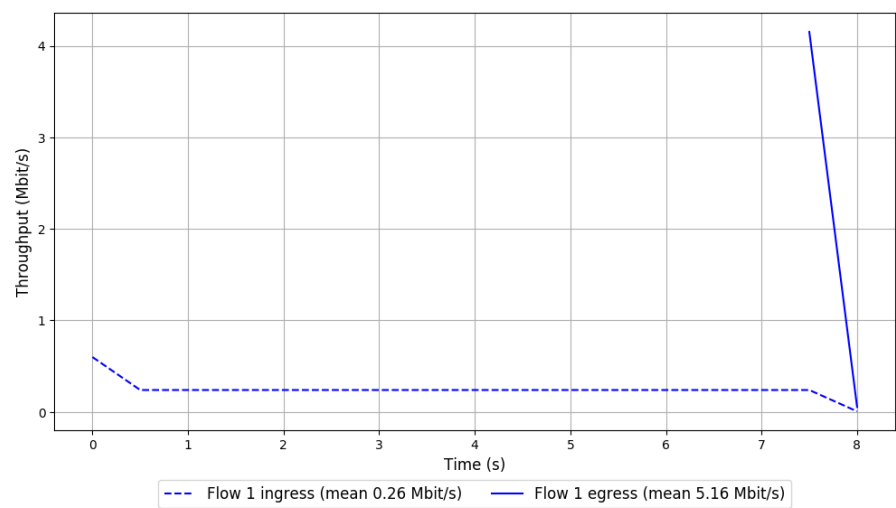


Run 3: Statistics of CalibratedKoho

Start at: 2017-10-10 19:55:22

End at: 2017-10-10 19:55:52

Run 3: Report of CalibratedKoho — Data Link

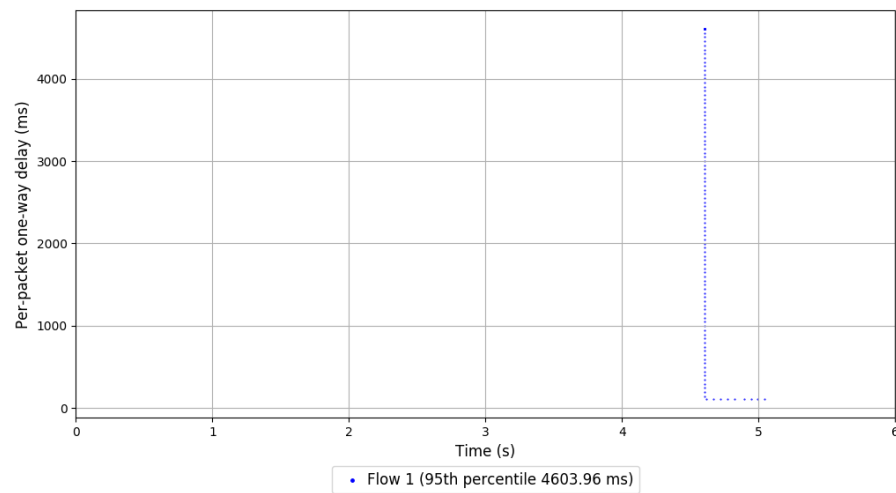
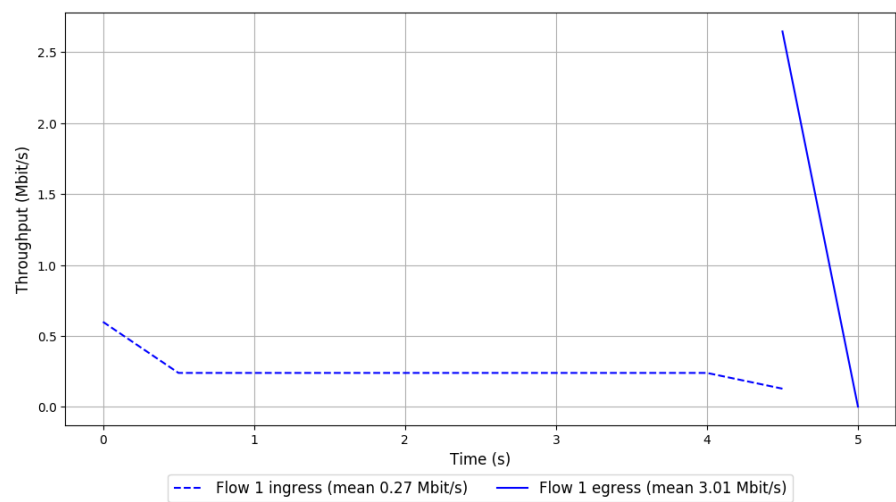


Run 4: Statistics of CalibratedKoho

Start at: 2017-10-10 20:06:10

End at: 2017-10-10 20:06:40

Run 4: Report of CalibratedKoho — Data Link

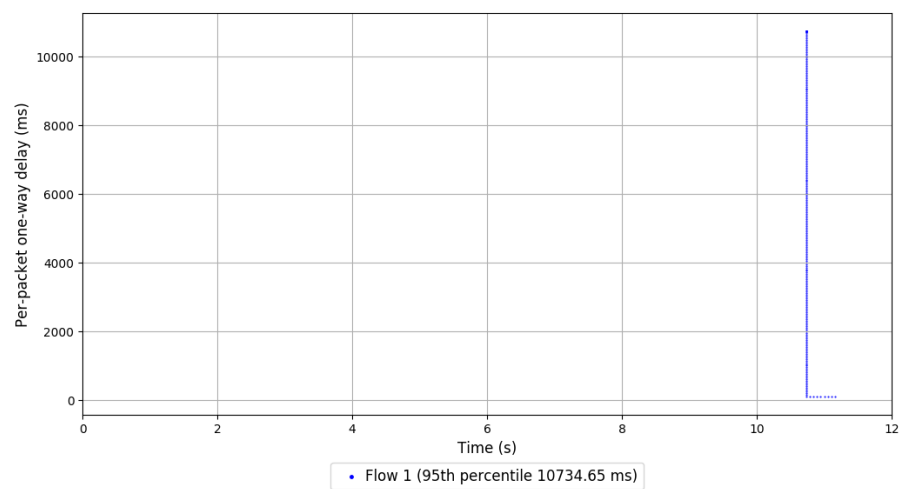
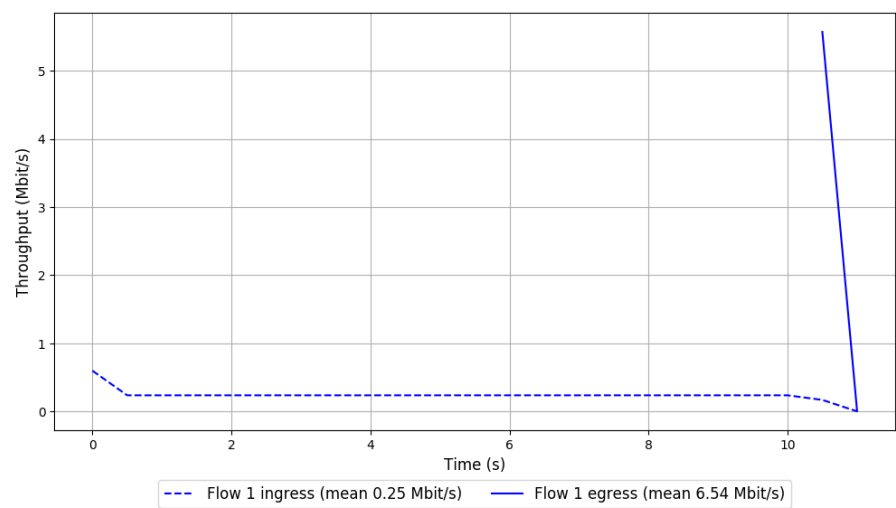


Run 5: Statistics of CalibratedKoho

Start at: 2017-10-10 20:17:24

End at: 2017-10-10 20:17:54

Run 5: Report of CalibratedKoho — Data Link



Run 6: Statistics of CalibratedKoho

Start at: 2017-10-10 20:28:19

End at: 2017-10-10 20:28:49

Below is generated by plot.py at 2017-10-10 22:41:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 330.56 Mbit/s

95th percentile per-packet one-way delay: 117.561 ms

Loss rate: 0.00%

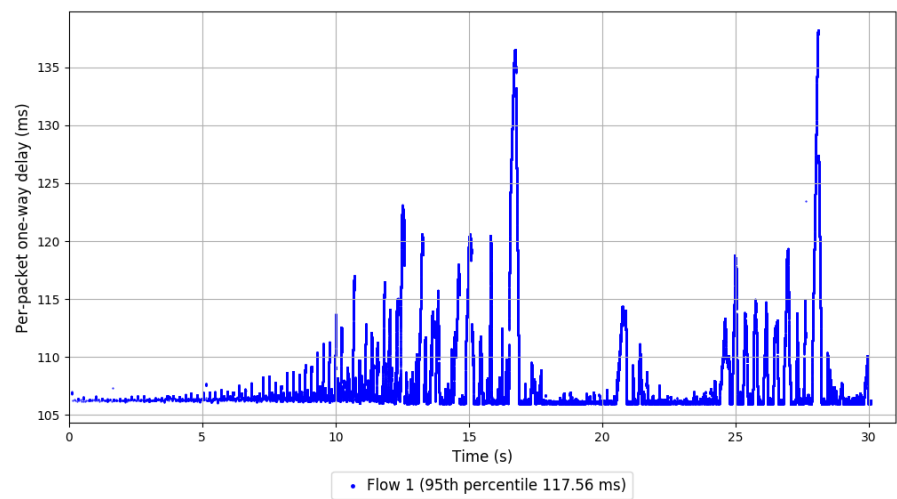
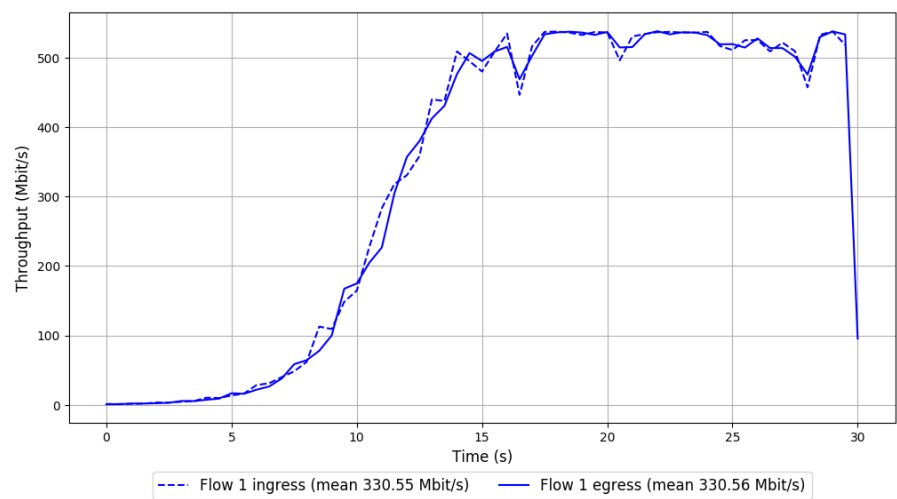
-- Flow 1:

Average throughput: 330.56 Mbit/s

95th percentile per-packet one-way delay: 117.561 ms

Loss rate: 0.00%

Run 6: Report of CalibratedKoho — Data Link

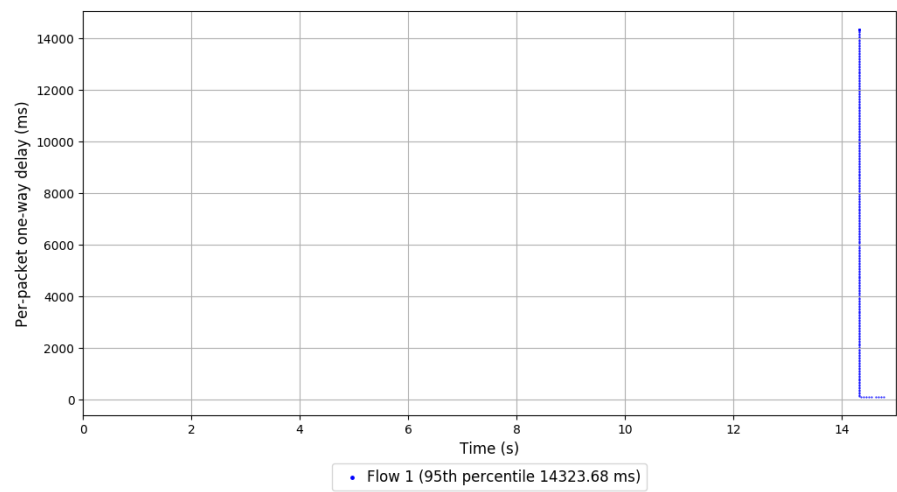
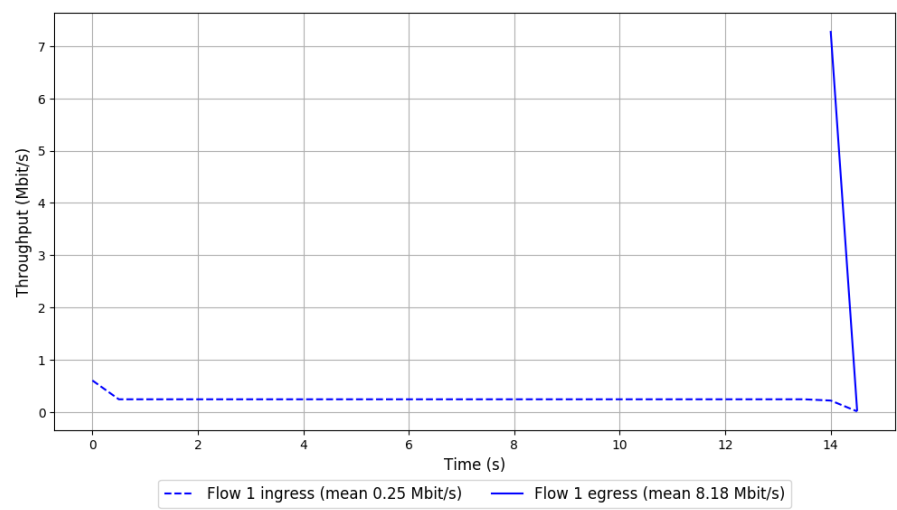


Run 7: Statistics of CalibratedKoho

Start at: 2017-10-10 20:39:54

End at: 2017-10-10 20:40:24

Run 7: Report of CalibratedKoho — Data Link



Run 8: Statistics of CalibratedKoho

Start at: 2017-10-10 20:50:58

End at: 2017-10-10 20:51:28

Below is generated by plot.py at 2017-10-10 22:41:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 343.94 Mbit/s

95th percentile per-packet one-way delay: 112.127 ms

Loss rate: 0.00%

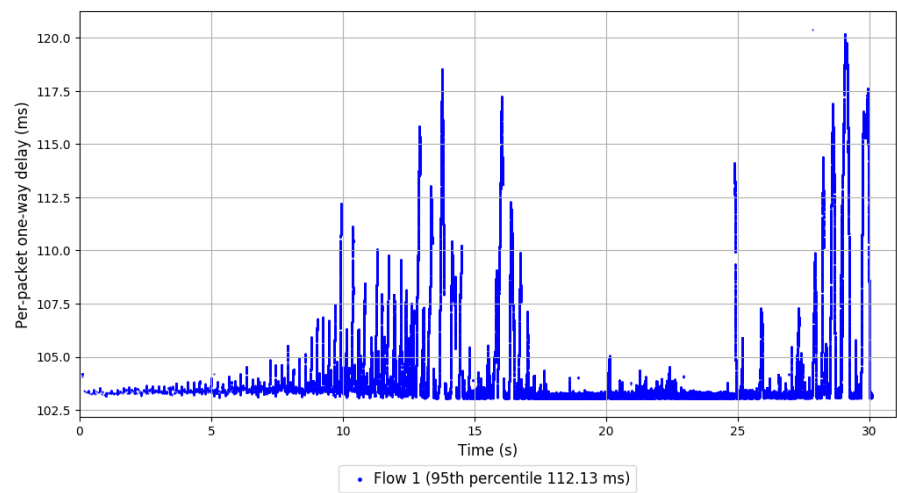
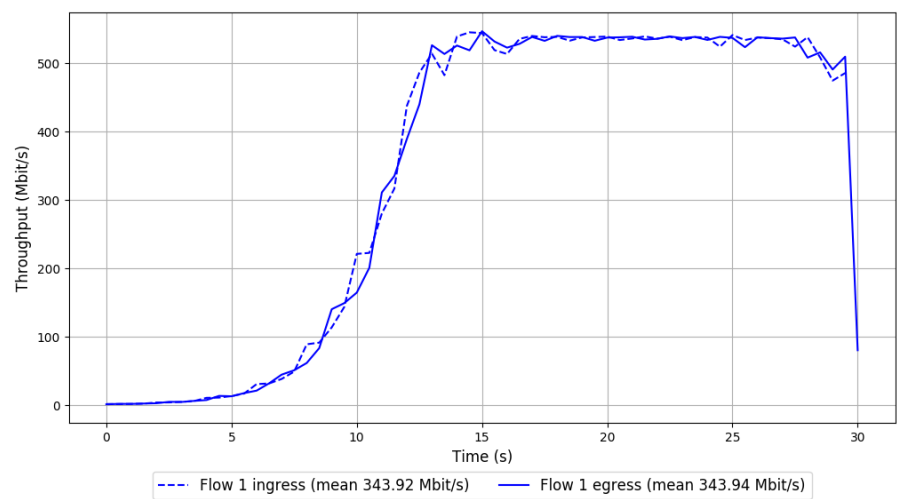
-- Flow 1:

Average throughput: 343.94 Mbit/s

95th percentile per-packet one-way delay: 112.127 ms

Loss rate: 0.00%

Run 8: Report of CalibratedKoho — Data Link



Run 9: Statistics of CalibratedKoho

Start at: 2017-10-10 21:02:33

End at: 2017-10-10 21:03:03

Below is generated by plot.py at 2017-10-10 22:42:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 326.35 Mbit/s

95th percentile per-packet one-way delay: 121.175 ms

Loss rate: 0.03%

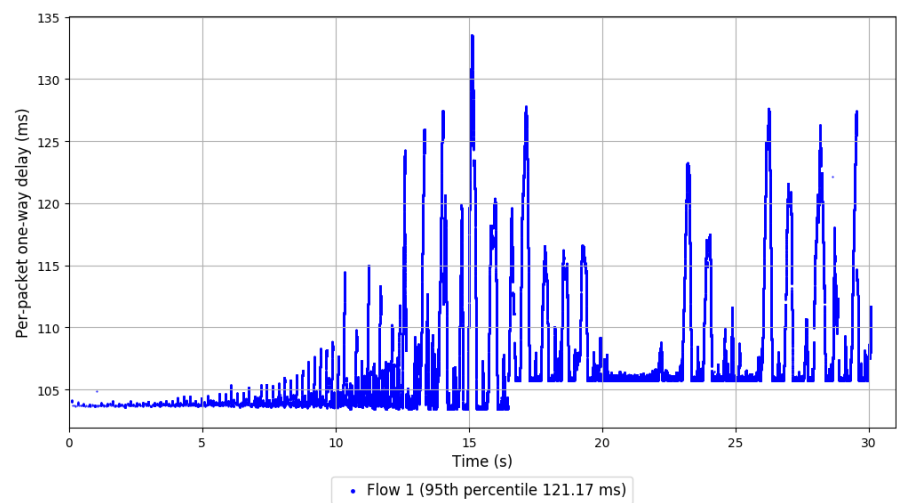
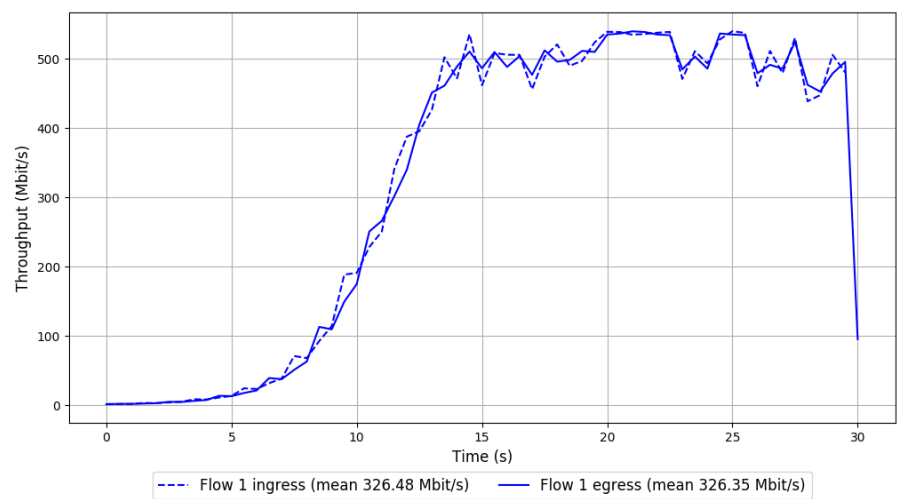
-- Flow 1:

Average throughput: 326.35 Mbit/s

95th percentile per-packet one-way delay: 121.175 ms

Loss rate: 0.03%

Run 9: Report of CalibratedKoho — Data Link



Run 10: Statistics of CalibratedKoho

Start at: 2017-10-10 21:13:52

End at: 2017-10-10 21:14:22

Below is generated by plot.py at 2017-10-10 22:43:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 333.83 Mbit/s

95th percentile per-packet one-way delay: 113.018 ms

Loss rate: 0.00%

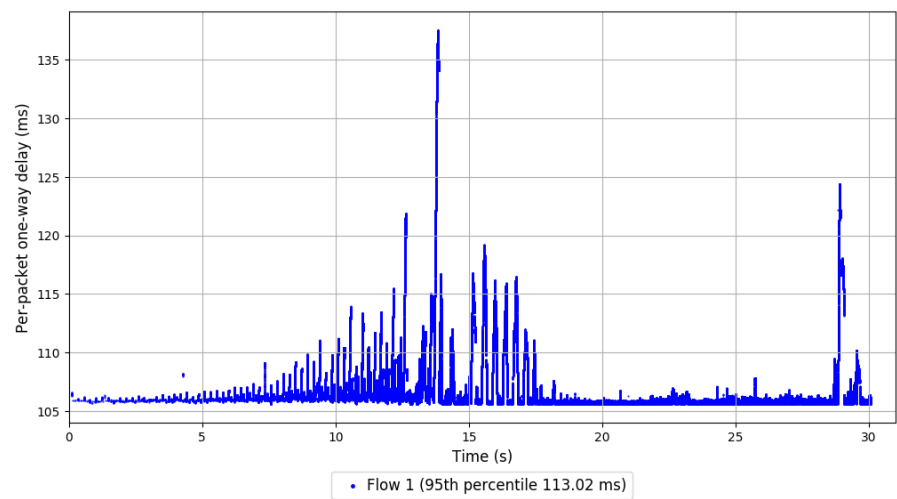
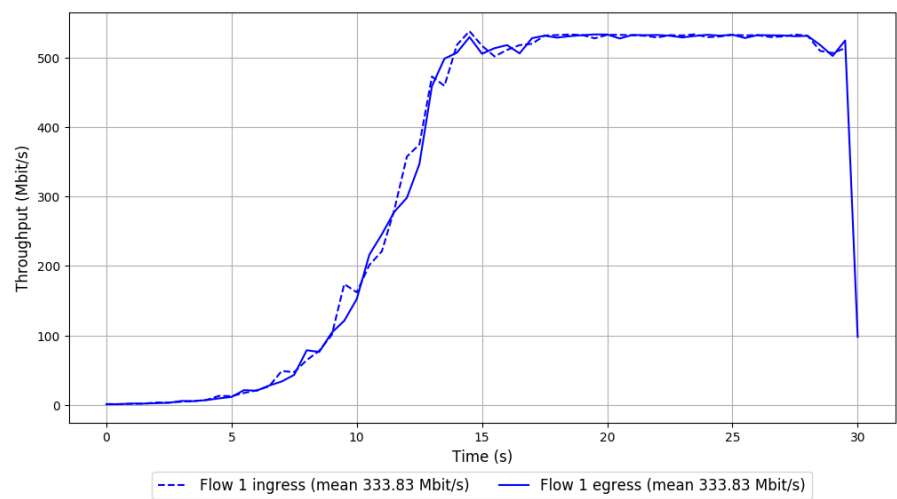
-- Flow 1:

Average throughput: 333.83 Mbit/s

95th percentile per-packet one-way delay: 113.018 ms

Loss rate: 0.00%

Run 10: Report of CalibratedKoho — Data Link



Run 1: Statistics of Indigo

Start at: 2017-10-10 19:27:29

End at: 2017-10-10 19:27:59

Below is generated by plot.py at 2017-10-10 22:43:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 153.90 Mbit/s

95th percentile per-packet one-way delay: 105.836 ms

Loss rate: 0.00%

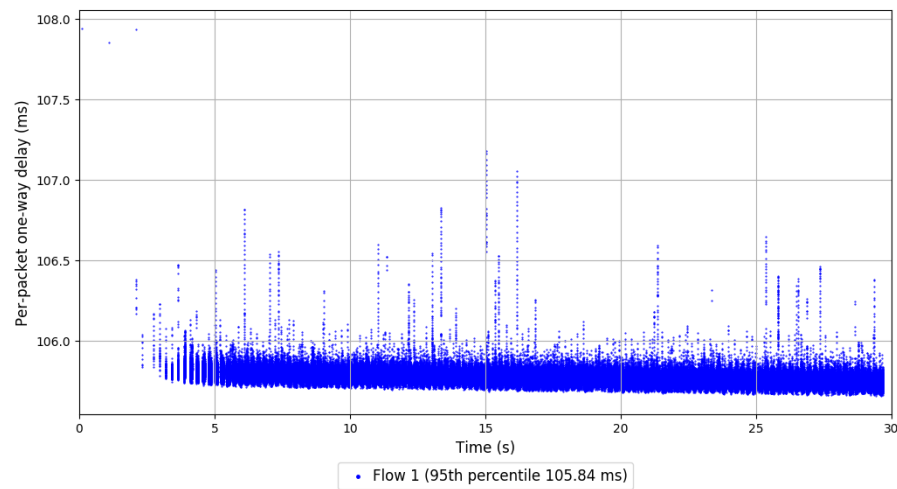
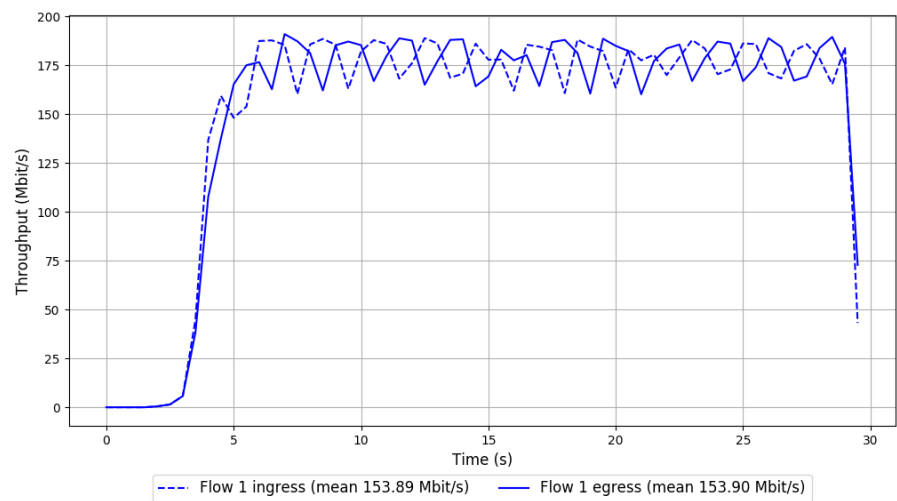
-- Flow 1:

Average throughput: 153.90 Mbit/s

95th percentile per-packet one-way delay: 105.836 ms

Loss rate: 0.00%

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2017-10-10 19:39:01

End at: 2017-10-10 19:39:31

Below is generated by plot.py at 2017-10-10 22:43:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 173.43 Mbit/s

95th percentile per-packet one-way delay: 105.963 ms

Loss rate: 0.00%

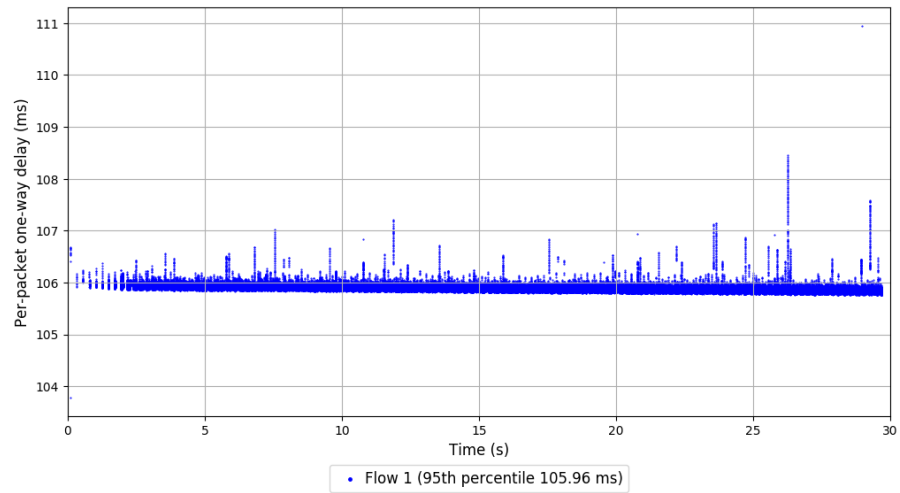
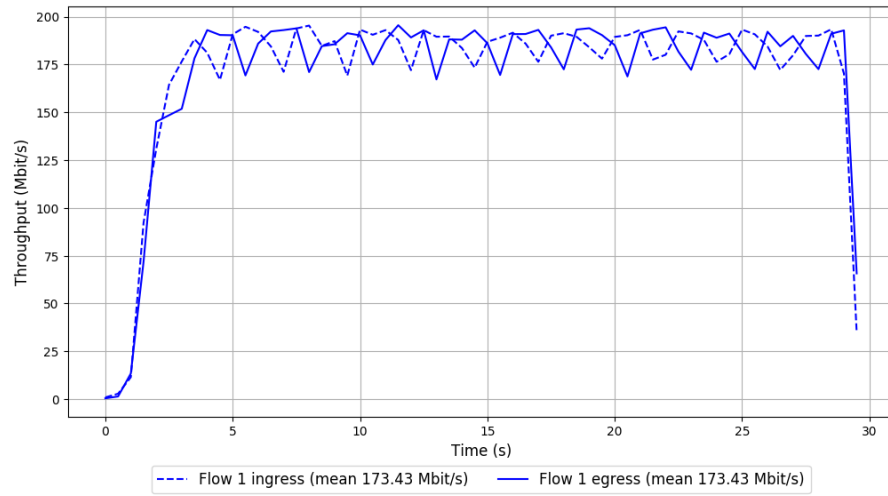
-- Flow 1:

Average throughput: 173.43 Mbit/s

95th percentile per-packet one-way delay: 105.963 ms

Loss rate: 0.00%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2017-10-10 19:50:33

End at: 2017-10-10 19:51:03

Below is generated by plot.py at 2017-10-10 22:43:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 171.97 Mbit/s

95th percentile per-packet one-way delay: 105.220 ms

Loss rate: 0.01%

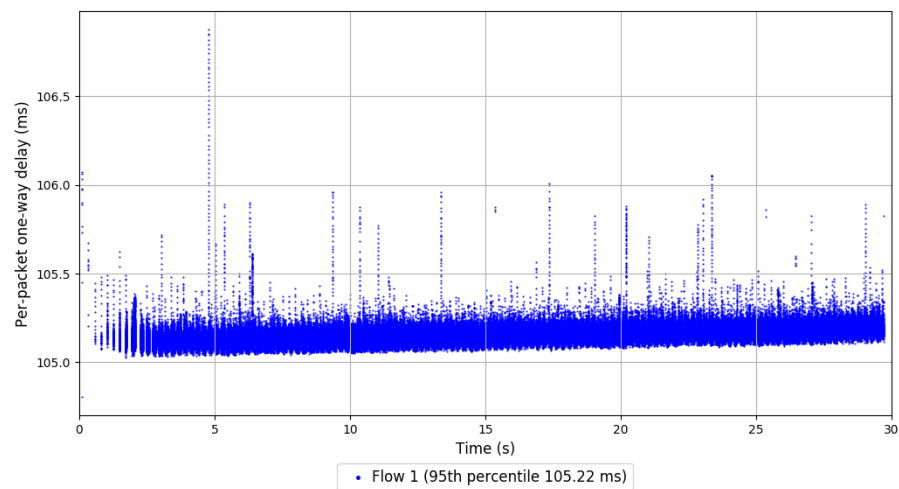
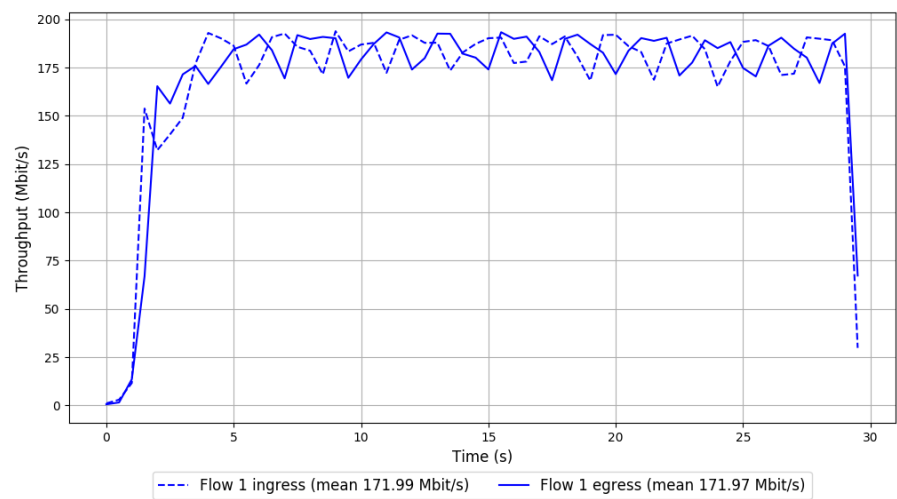
-- Flow 1:

Average throughput: 171.97 Mbit/s

95th percentile per-packet one-way delay: 105.220 ms

Loss rate: 0.01%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2017-10-10 20:01:25

End at: 2017-10-10 20:01:55

Below is generated by plot.py at 2017-10-10 22:43:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 174.04 Mbit/s

95th percentile per-packet one-way delay: 106.680 ms

Loss rate: 0.01%

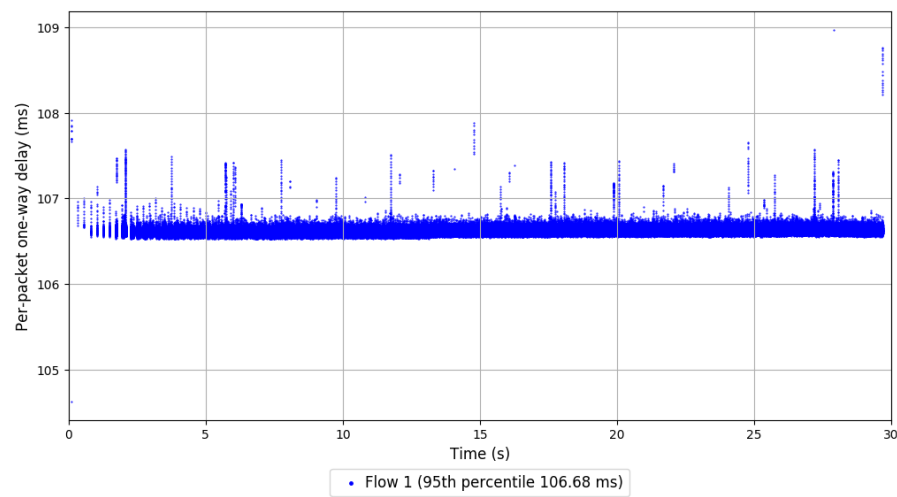
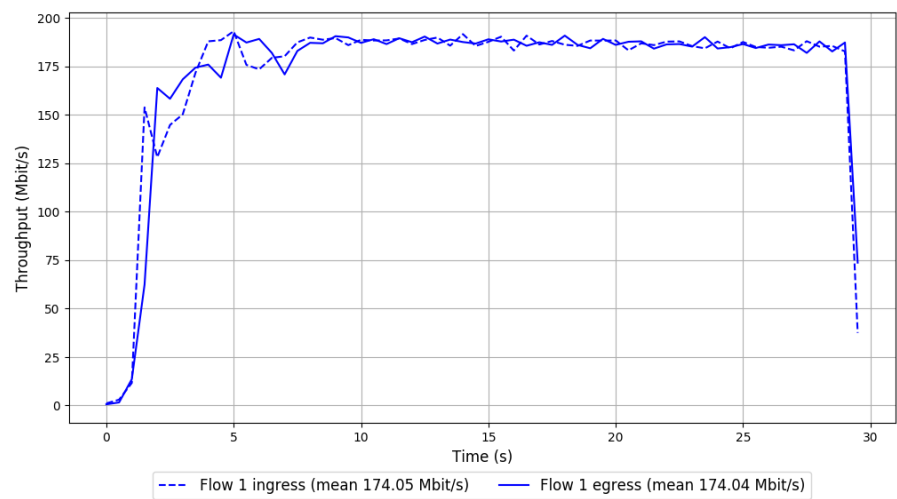
-- Flow 1:

Average throughput: 174.04 Mbit/s

95th percentile per-packet one-way delay: 106.680 ms

Loss rate: 0.01%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2017-10-10 20:12:35

End at: 2017-10-10 20:13:05

Below is generated by plot.py at 2017-10-10 22:43:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 173.06 Mbit/s

95th percentile per-packet one-way delay: 107.075 ms

Loss rate: 0.00%

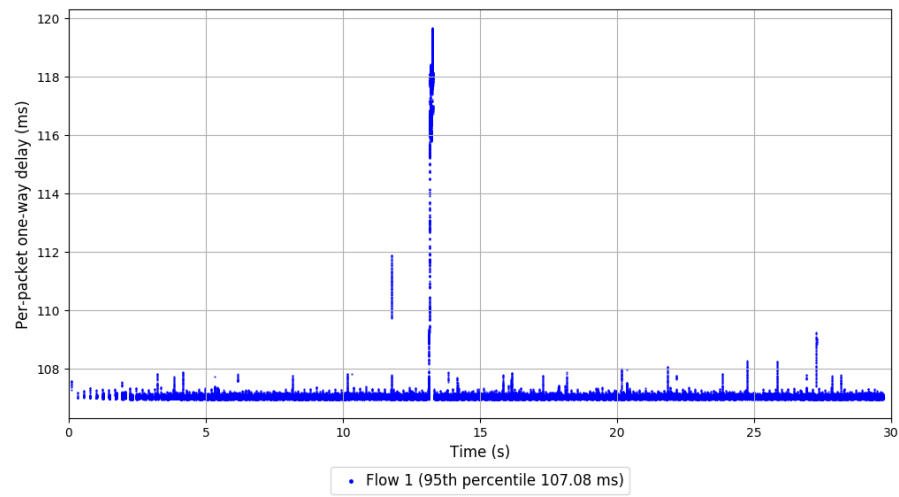
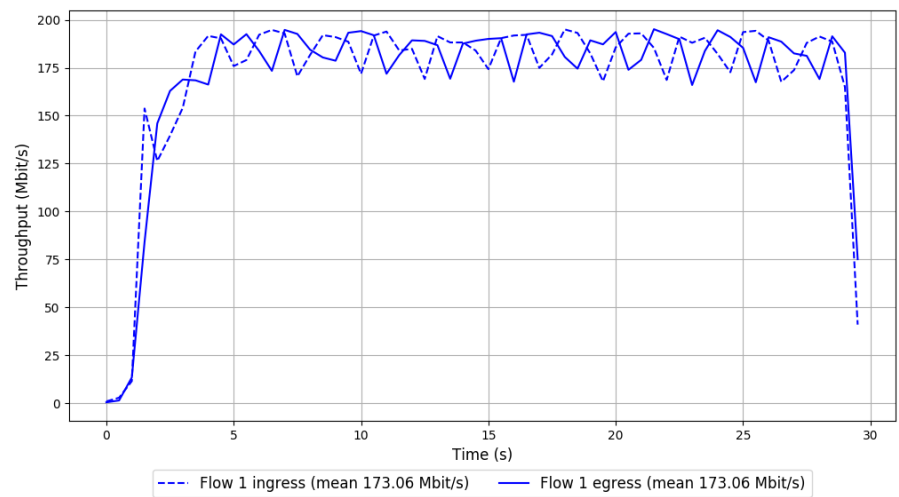
-- Flow 1:

Average throughput: 173.06 Mbit/s

95th percentile per-packet one-way delay: 107.075 ms

Loss rate: 0.00%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2017-10-10 20:23:35

End at: 2017-10-10 20:24:05

Below is generated by plot.py at 2017-10-10 22:43:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 174.40 Mbit/s

95th percentile per-packet one-way delay: 106.540 ms

Loss rate: 0.00%

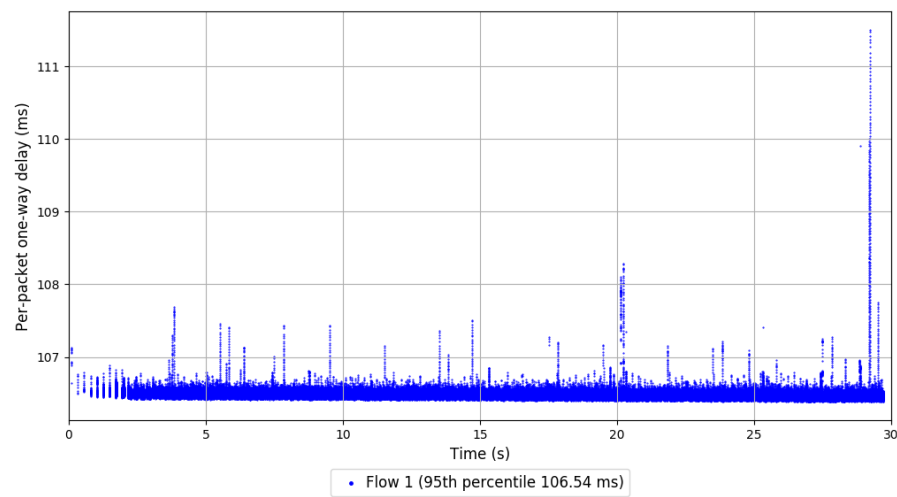
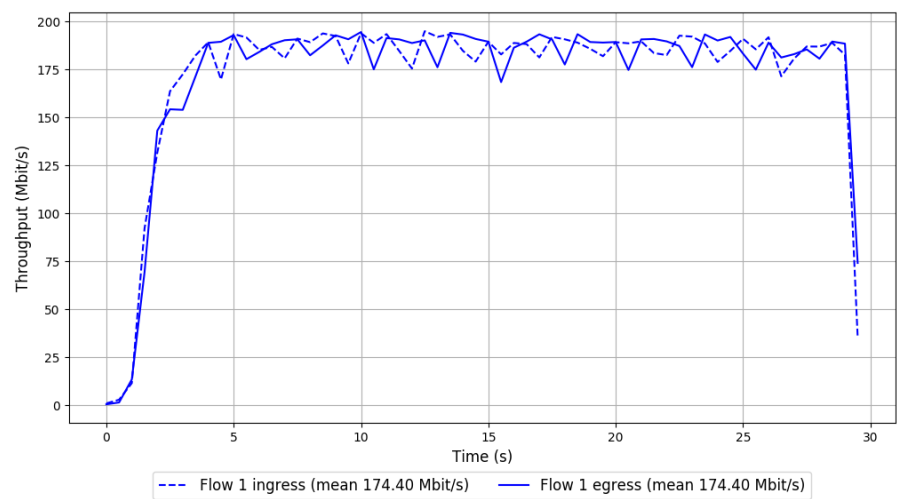
-- Flow 1:

Average throughput: 174.40 Mbit/s

95th percentile per-packet one-way delay: 106.540 ms

Loss rate: 0.00%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2017-10-10 20:35:09

End at: 2017-10-10 20:35:39

Below is generated by plot.py at 2017-10-10 22:43:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 173.82 Mbit/s

95th percentile per-packet one-way delay: 103.379 ms

Loss rate: 0.00%

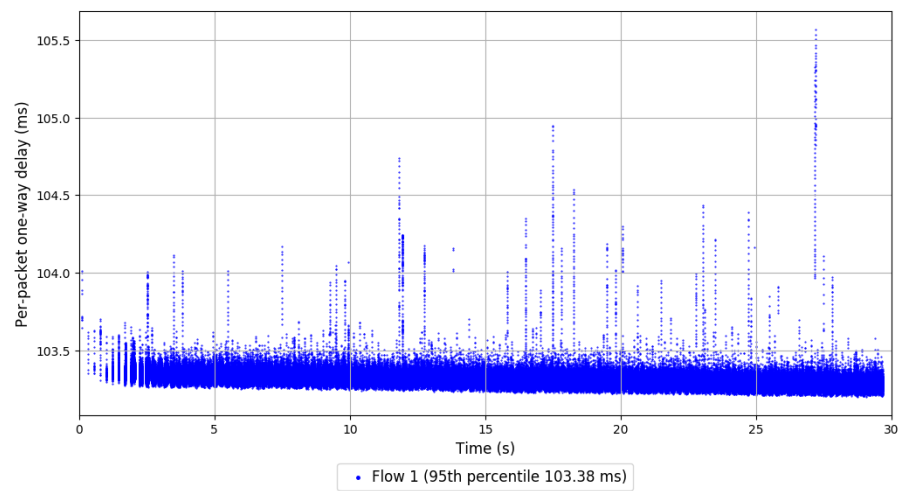
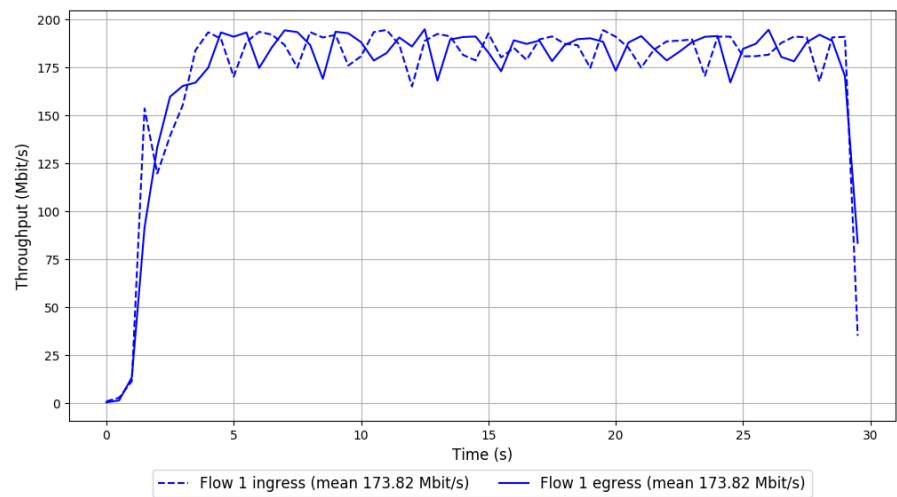
-- Flow 1:

Average throughput: 173.82 Mbit/s

95th percentile per-packet one-way delay: 103.379 ms

Loss rate: 0.00%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2017-10-10 20:46:18

End at: 2017-10-10 20:46:48

Below is generated by plot.py at 2017-10-10 22:44:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 172.84 Mbit/s

95th percentile per-packet one-way delay: 102.837 ms

Loss rate: 0.00%

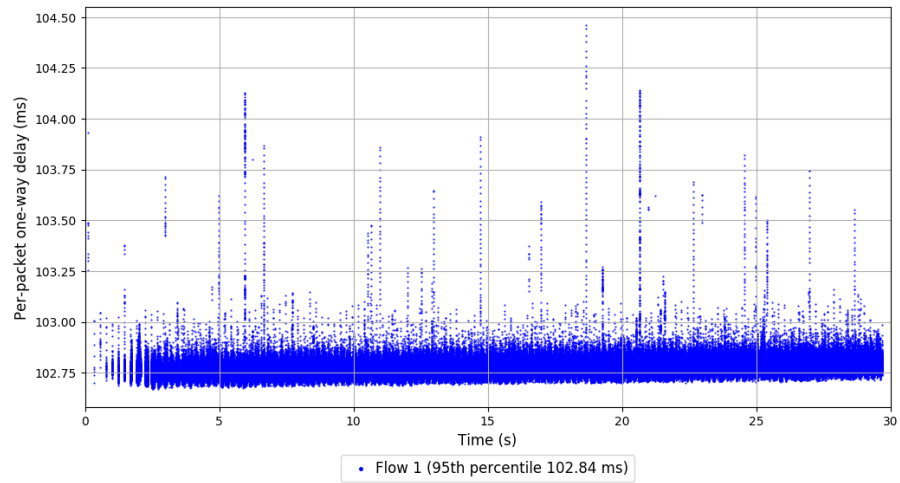
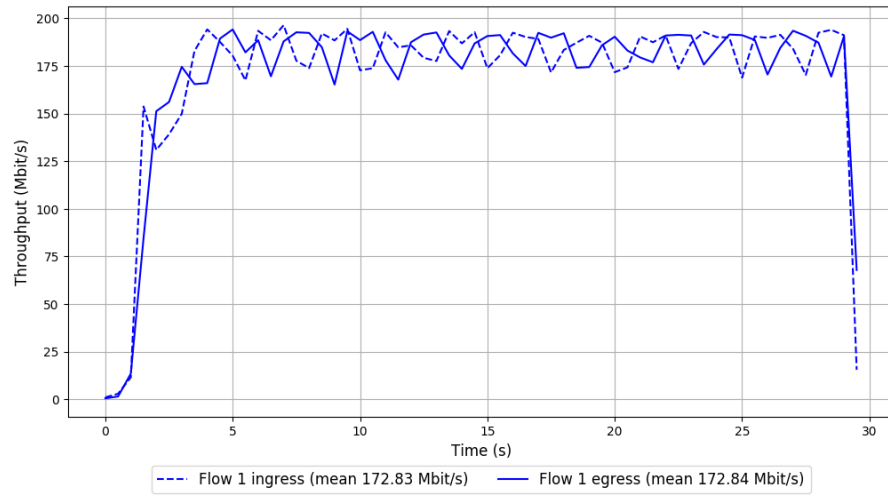
-- Flow 1:

Average throughput: 172.84 Mbit/s

95th percentile per-packet one-way delay: 102.837 ms

Loss rate: 0.00%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2017-10-10 20:57:38

End at: 2017-10-10 20:58:08

Below is generated by plot.py at 2017-10-10 22:44:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 171.94 Mbit/s

95th percentile per-packet one-way delay: 103.485 ms

Loss rate: 0.00%

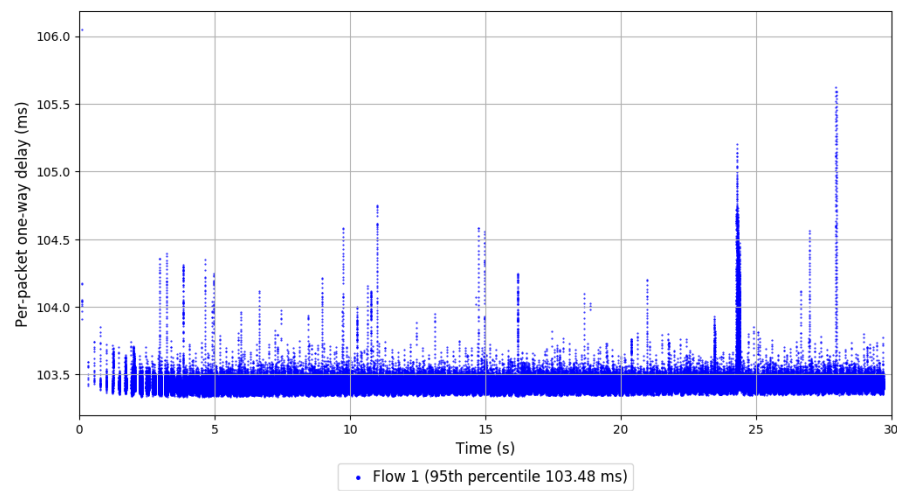
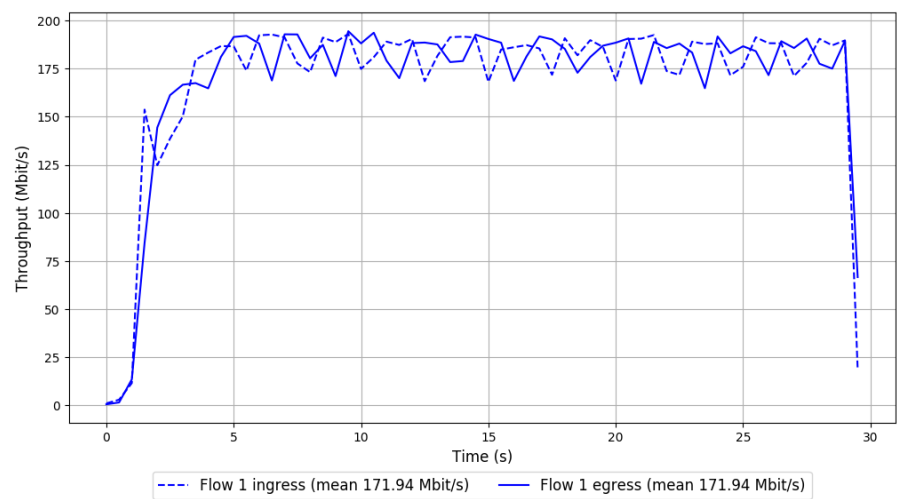
-- Flow 1:

Average throughput: 171.94 Mbit/s

95th percentile per-packet one-way delay: 103.485 ms

Loss rate: 0.00%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2017-10-10 21:09:01

End at: 2017-10-10 21:09:31

Below is generated by plot.py at 2017-10-10 22:44:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 172.34 Mbit/s

95th percentile per-packet one-way delay: 105.843 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 172.34 Mbit/s

95th percentile per-packet one-way delay: 105.843 ms

Loss rate: 0.00%

Run 10: Report of Indigo — Data Link

