

Pantheon Report

Generated at 2018-01-09 11:58:38 (UTC).

Data path: GCE Iowa 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.

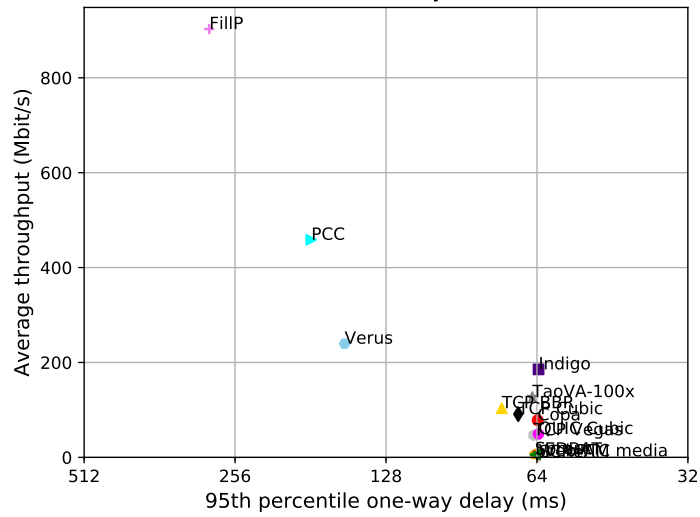
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

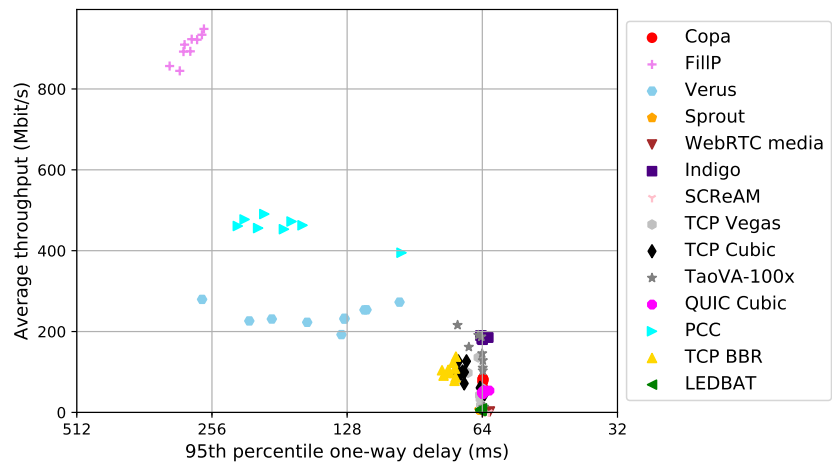
Git summary:

```
branch: master @ 56d1792c316a5efca3f2d21342905405fedffb48
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/illp @ ec9585325218d5048c4d4152fa42240af54c6e67
third_party/genericCC @ 80b516c448f795fd6e9675f7177b69c622f07da8
third_party/indigo @ b19f3730105f9aa95452552af924e3719b03cc55
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
  M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ fb1053193c2861da659ba9013db26744ccfcf993
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 Iowa Ethernet to GCE Tokyo Ethernet, 10 runs of 30s each per scheme
(mean of all runs by scheme)



test from GCE Iowa 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	9	103.55	75.22	0.17
TCP Cubic	10	91.04	69.75	0.25
LEDBAT	10	5.78	64.50	0.85
PCC	8	458.51	180.42	1.24
QUIC Cubic	10	49.20	63.58	0.03
SCReAM	6	0.22	63.45	0.00
WebRTC media	10	2.24	63.58	0.00
Sprout	10	6.50	64.62	0.35
TaoVA-100x	10	127.02	65.36	0.01
TCP Vegas	10	46.61	64.99	0.23
Verus	10	239.57	154.82	2.05
Copa	8	78.20	63.80	0.02
FillP	9	902.70	288.16	5.75
Indigo	10	185.45	63.53	0.10

Run 1: Statistics of TCP BBR

Start at: 2018-01-09 08:29:26

End at: 2018-01-09 08:29:56

Below is generated by plot.py at 2018-01-09 11:14:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 105.40 Mbit/s

95th percentile per-packet one-way delay: 76.234 ms

Loss rate: 0.05%

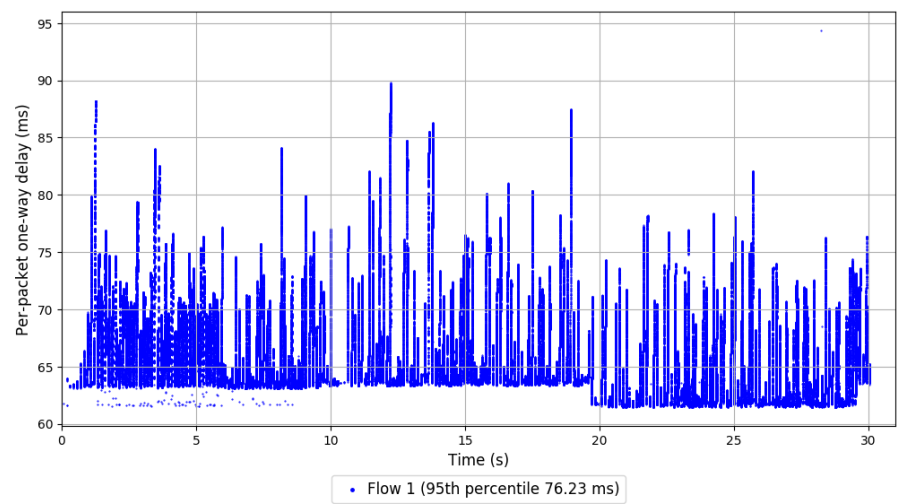
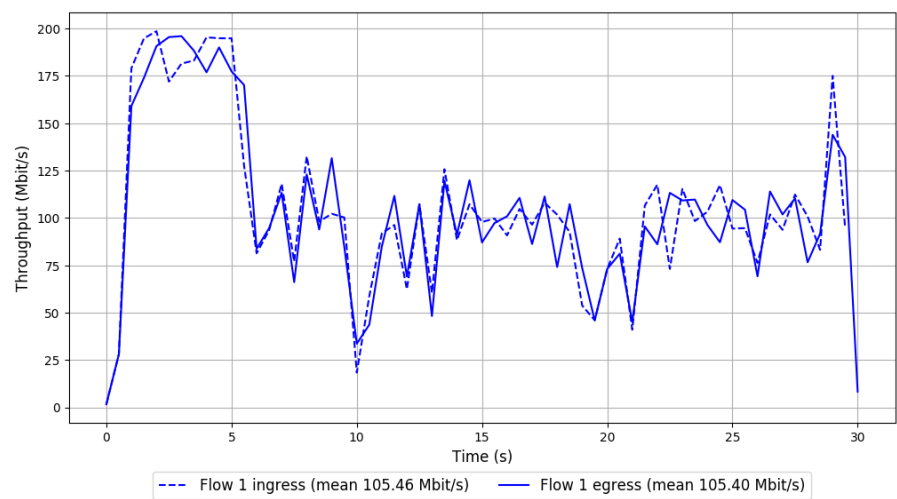
-- Flow 1:

Average throughput: 105.40 Mbit/s

95th percentile per-packet one-way delay: 76.234 ms

Loss rate: 0.05%

Run 1: Report of TCP BBR — Data Link

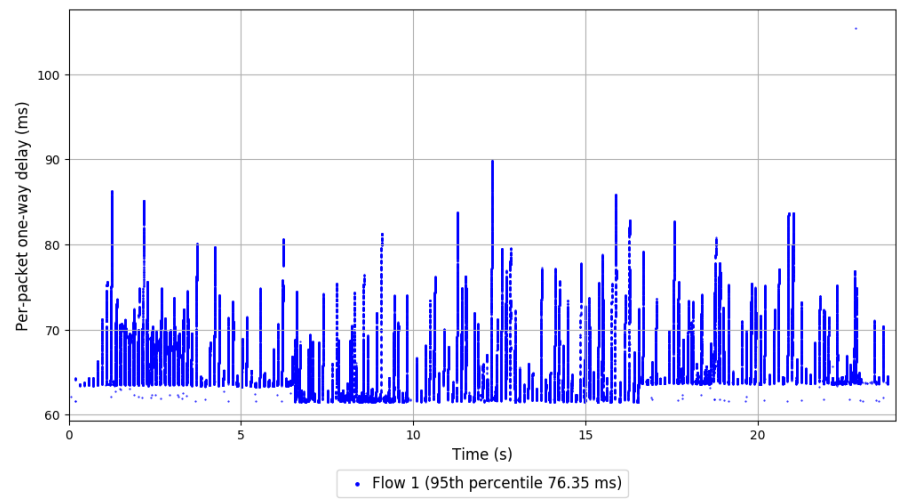
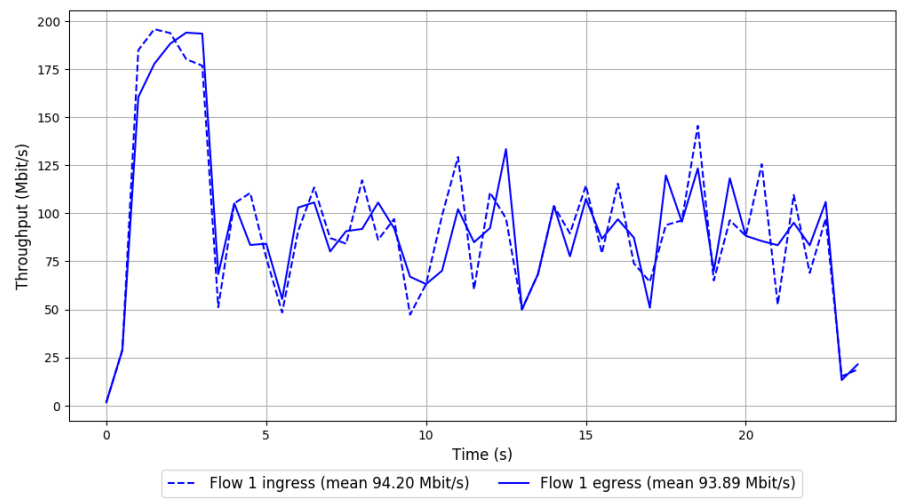


Run 2: Statistics of TCP BBR

Start at: 2018-01-09 08:40:52

End at: 2018-01-09 08:41:22

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-01-09 08:51:42

End at: 2018-01-09 08:52:12

Below is generated by plot.py at 2018-01-09 11:14:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 97.18 Mbit/s

95th percentile per-packet one-way delay: 75.576 ms

Loss rate: 0.55%

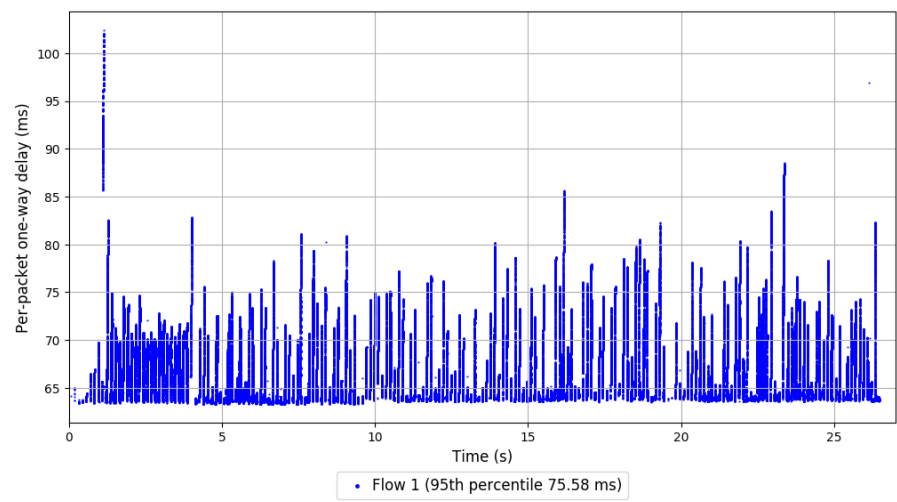
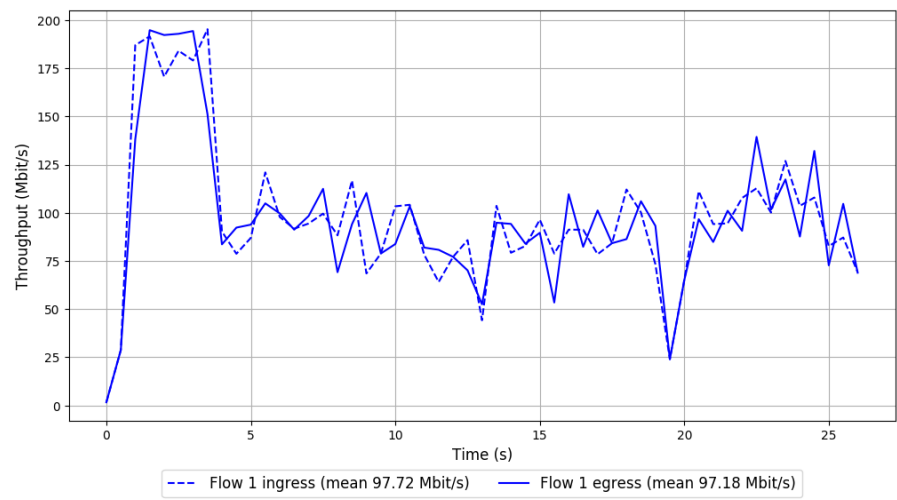
-- Flow 1:

Average throughput: 97.18 Mbit/s

95th percentile per-packet one-way delay: 75.576 ms

Loss rate: 0.55%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-01-09 09:03:22

End at: 2018-01-09 09:03:52

Below is generated by plot.py at 2018-01-09 11:14:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.08 Mbit/s

95th percentile per-packet one-way delay: 78.070 ms

Loss rate: 0.07%

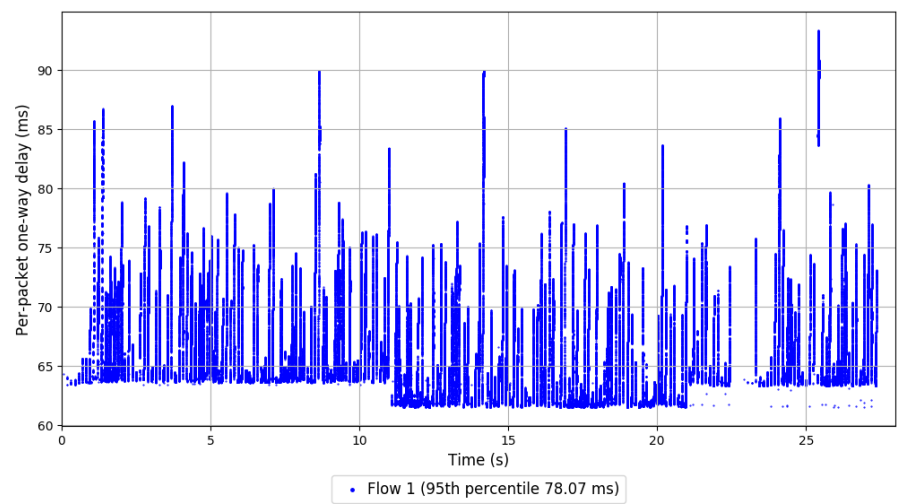
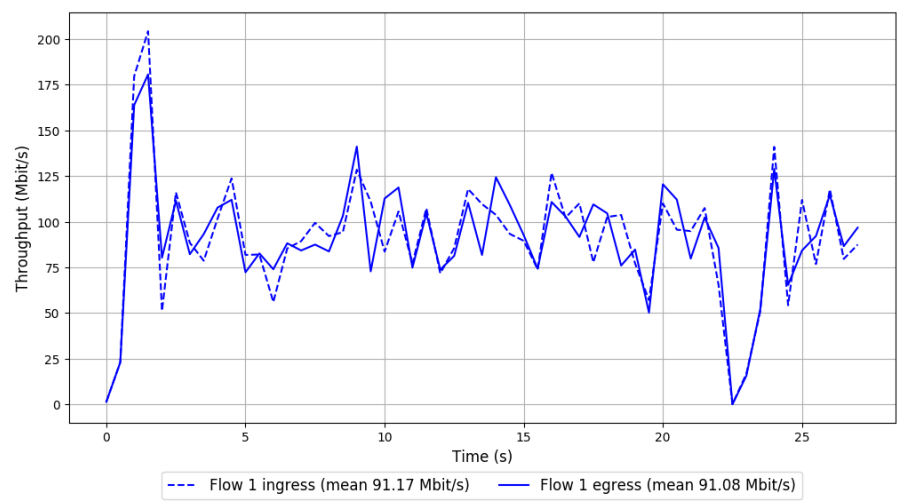
-- Flow 1:

Average throughput: 91.08 Mbit/s

95th percentile per-packet one-way delay: 78.070 ms

Loss rate: 0.07%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-01-09 09:14:44

End at: 2018-01-09 09:15:14

Below is generated by plot.py at 2018-01-09 11:14:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 104.31 Mbit/s

95th percentile per-packet one-way delay: 78.689 ms

Loss rate: 0.02%

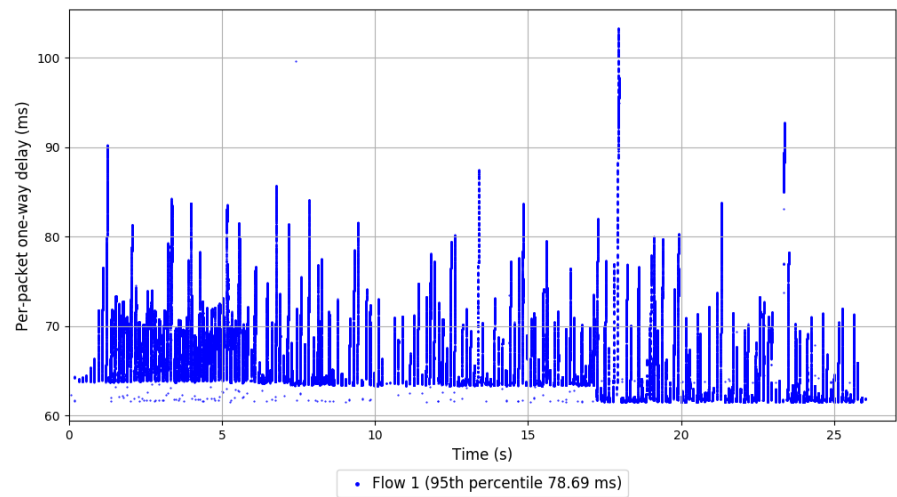
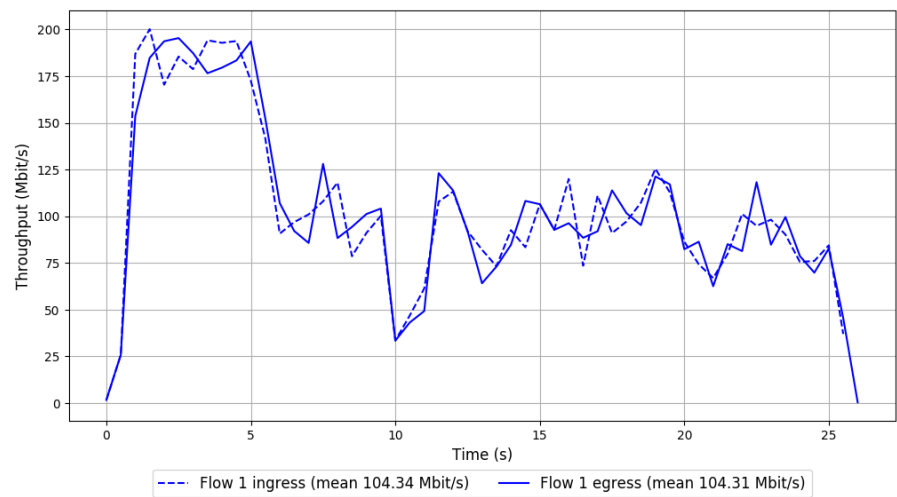
-- Flow 1:

Average throughput: 104.31 Mbit/s

95th percentile per-packet one-way delay: 78.689 ms

Loss rate: 0.02%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-01-09 09:26:29

End at: 2018-01-09 09:26:59

Below is generated by plot.py at 2018-01-09 11:14:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.46 Mbit/s

95th percentile per-packet one-way delay: 73.406 ms

Loss rate: 0.01%

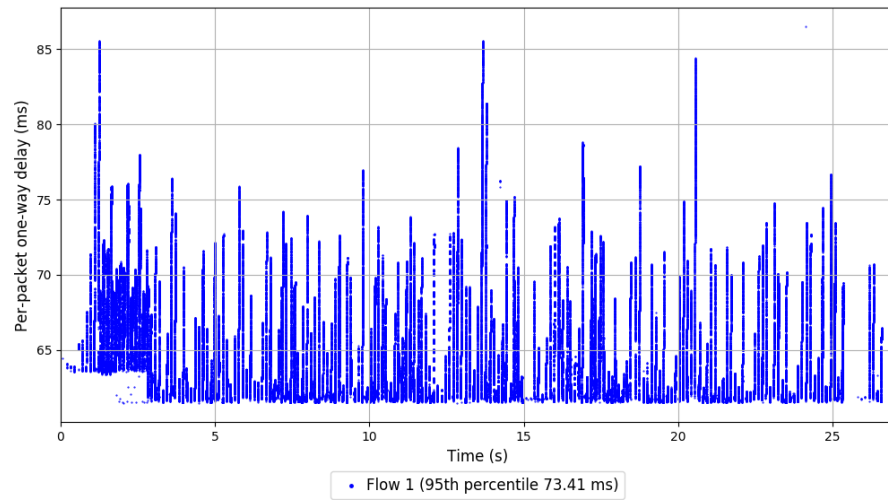
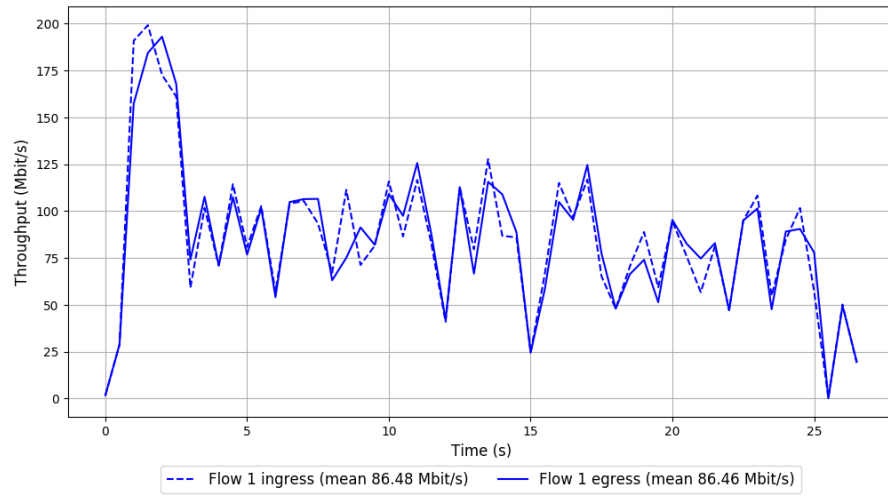
-- Flow 1:

Average throughput: 86.46 Mbit/s

95th percentile per-packet one-way delay: 73.406 ms

Loss rate: 0.01%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-01-09 09:38:22

End at: 2018-01-09 09:38:52

Below is generated by plot.py at 2018-01-09 11:14:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.23 Mbit/s

95th percentile per-packet one-way delay: 73.801 ms

Loss rate: 0.83%

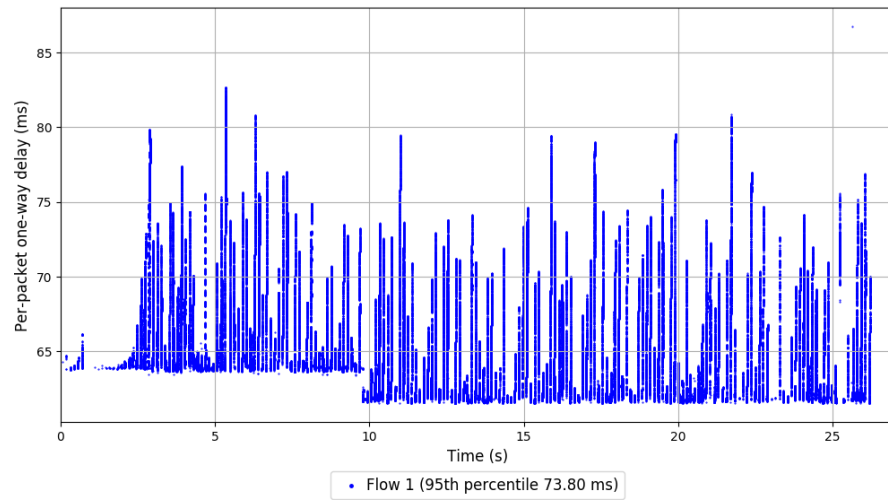
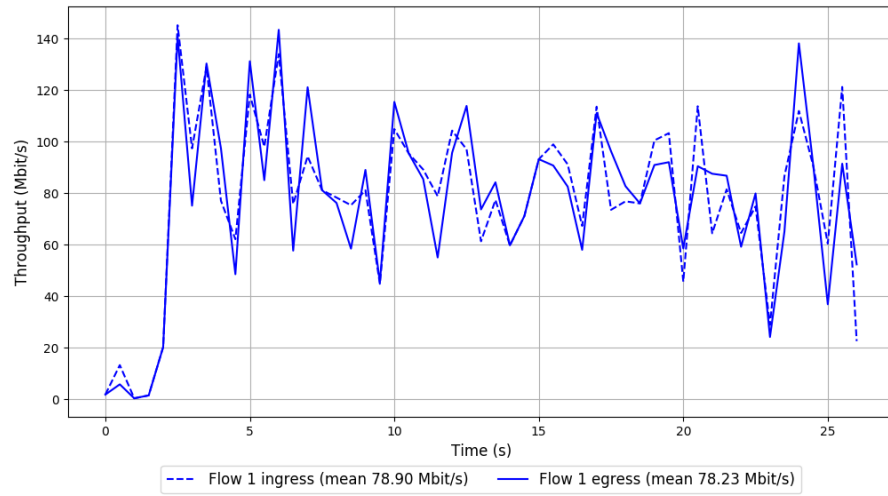
-- Flow 1:

Average throughput: 78.23 Mbit/s

95th percentile per-packet one-way delay: 73.801 ms

Loss rate: 0.83%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-01-09 09:50:04

End at: 2018-01-09 09:50:34

Below is generated by plot.py at 2018-01-09 11:14:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 108.48 Mbit/s

95th percentile per-packet one-way delay: 73.605 ms

Loss rate: 0.00%

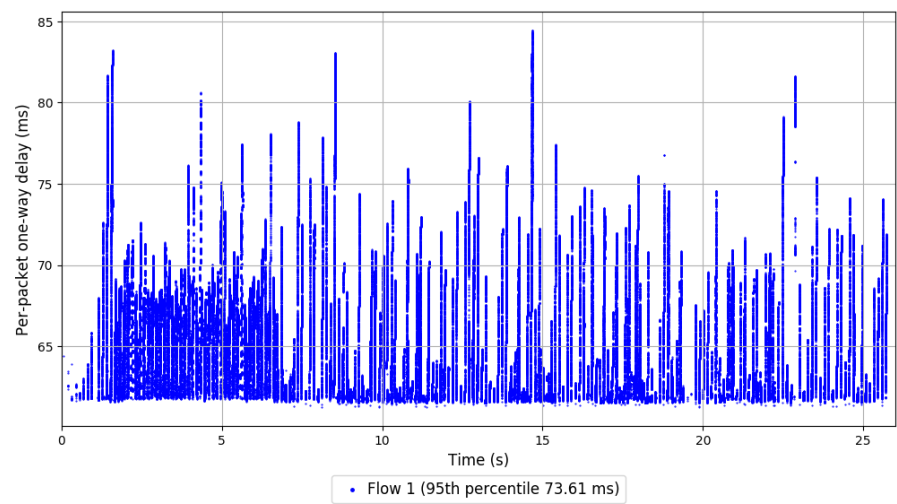
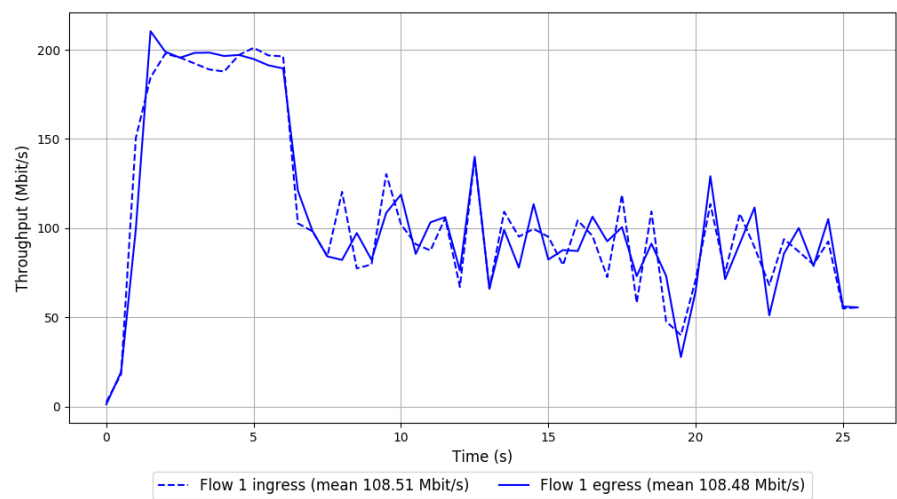
-- Flow 1:

Average throughput: 108.48 Mbit/s

95th percentile per-packet one-way delay: 73.605 ms

Loss rate: 0.00%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-01-09 10:01:28

End at: 2018-01-09 10:01:58

Below is generated by plot.py at 2018-01-09 11:15:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 138.03 Mbit/s

95th percentile per-packet one-way delay: 73.283 ms

Loss rate: 0.01%

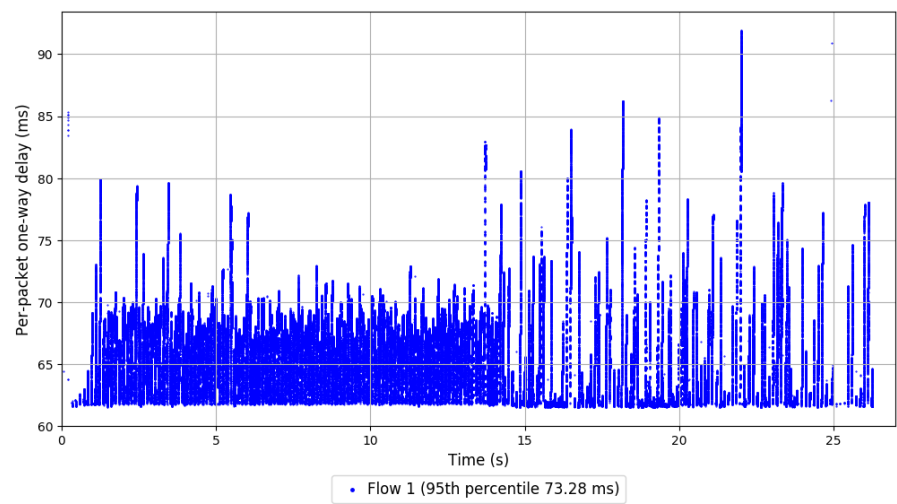
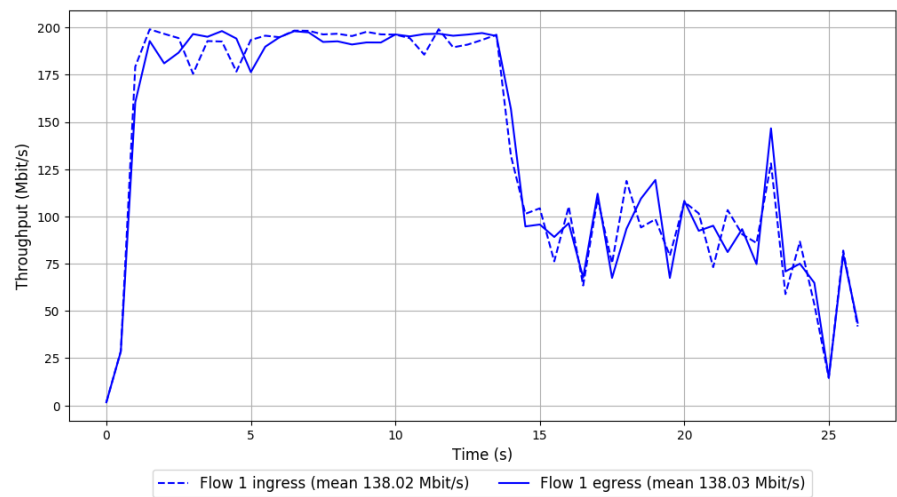
-- Flow 1:

Average throughput: 138.03 Mbit/s

95th percentile per-packet one-way delay: 73.283 ms

Loss rate: 0.01%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-01-09 10:13:00

End at: 2018-01-09 10:13:30

Below is generated by plot.py at 2018-01-09 11:15:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 122.80 Mbit/s

95th percentile per-packet one-way delay: 74.314 ms

Loss rate: 0.00%

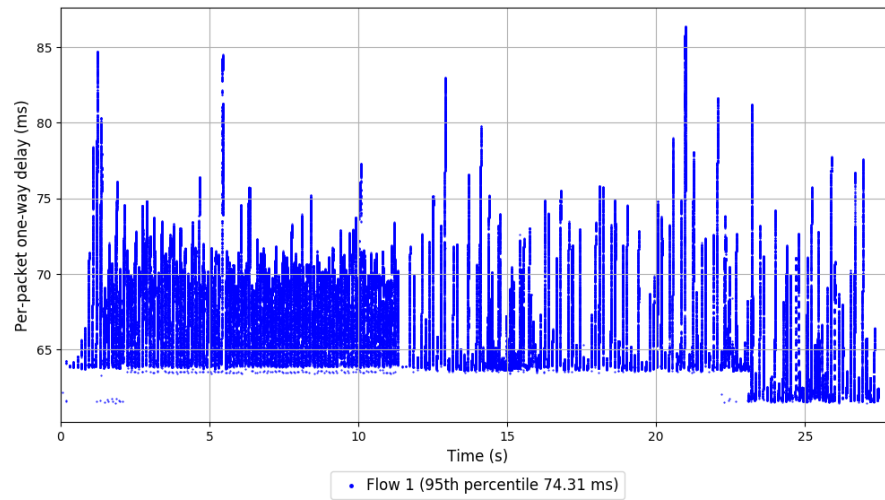
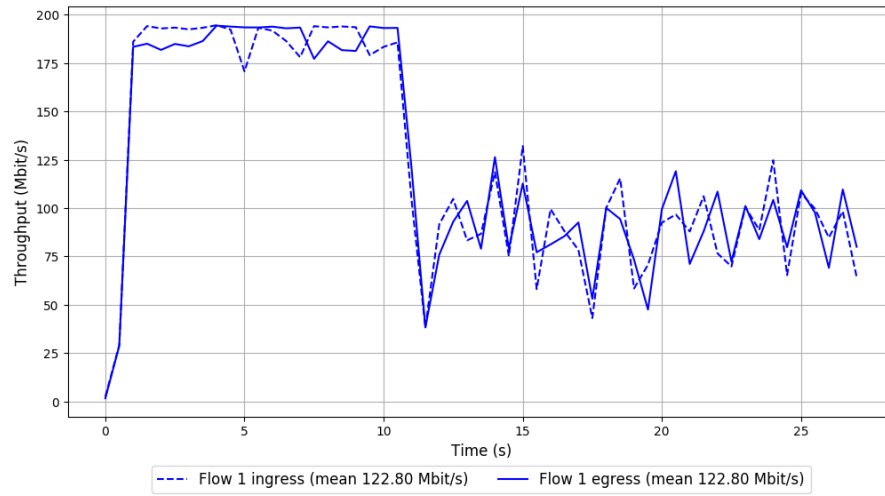
-- Flow 1:

Average throughput: 122.80 Mbit/s

95th percentile per-packet one-way delay: 74.314 ms

Loss rate: 0.00%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-01-09 08:37:13

End at: 2018-01-09 08:37:43

Below is generated by plot.py at 2018-01-09 11:15:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.66 Mbit/s

95th percentile per-packet one-way delay: 70.218 ms

Loss rate: 0.25%

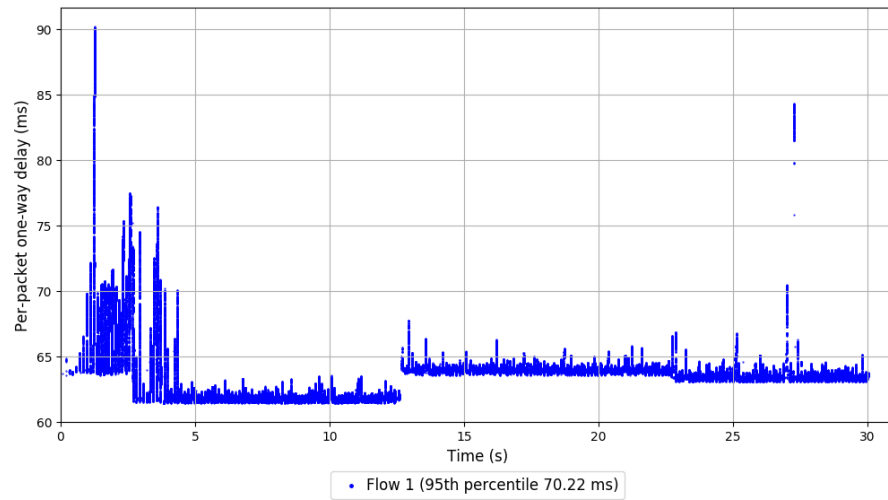
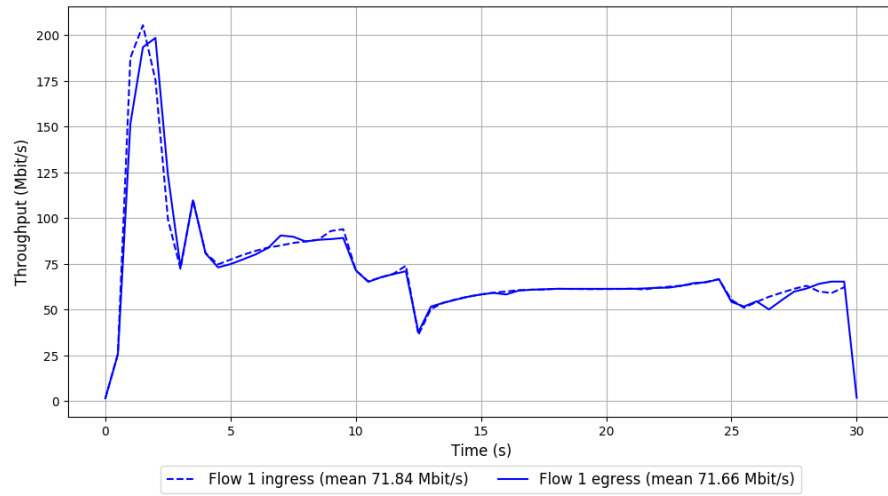
-- Flow 1:

Average throughput: 71.66 Mbit/s

95th percentile per-packet one-way delay: 70.218 ms

Loss rate: 0.25%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-01-09 08:48:04

End at: 2018-01-09 08:48:34

Below is generated by plot.py at 2018-01-09 11:15:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 45.30 Mbit/s

95th percentile per-packet one-way delay: 63.262 ms

Loss rate: 0.32%

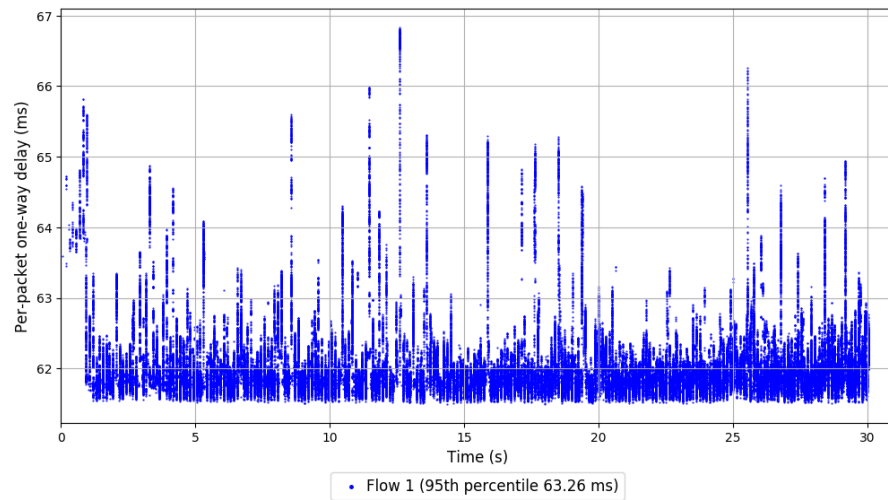
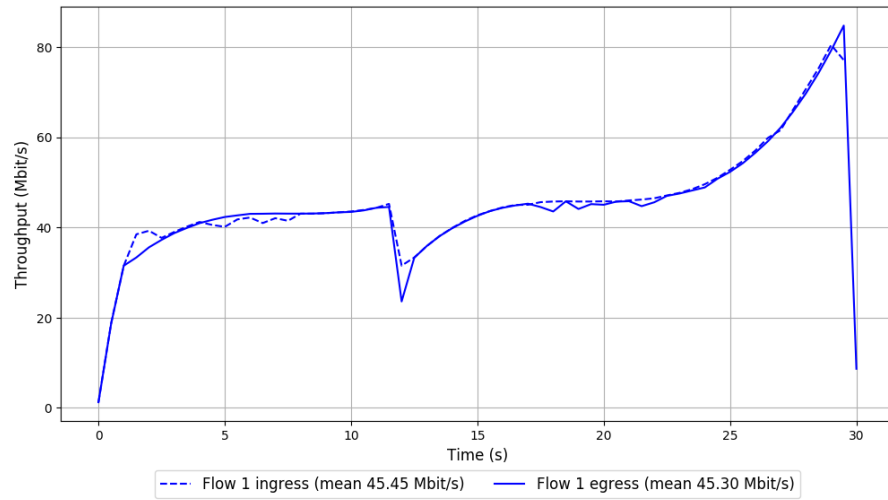
-- Flow 1:

Average throughput: 45.30 Mbit/s

95th percentile per-packet one-way delay: 63.262 ms

Loss rate: 0.32%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-01-09 08:59:41

End at: 2018-01-09 09:00:11

Below is generated by plot.py at 2018-01-09 11:15:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.15 Mbit/s

95th percentile per-packet one-way delay: 71.426 ms

Loss rate: 0.42%

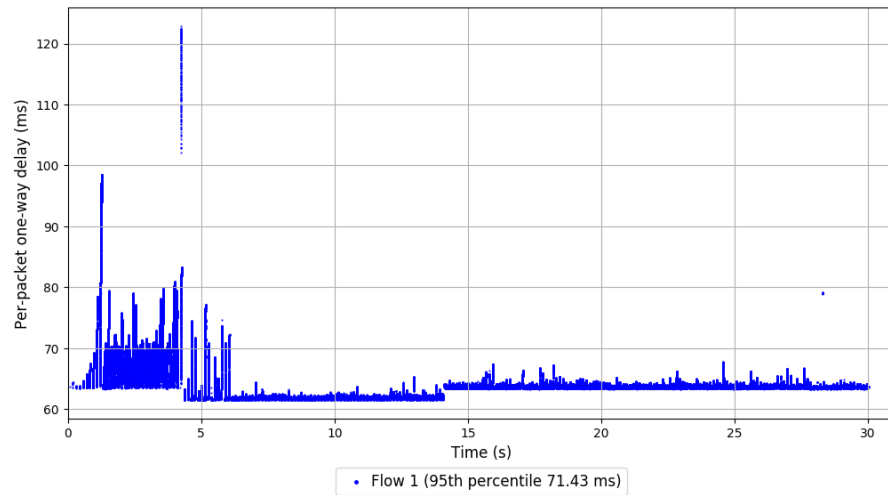
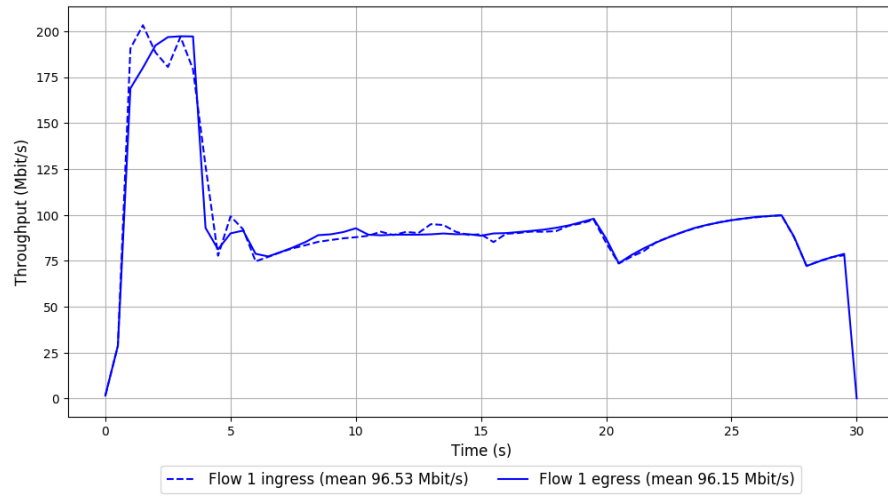
-- Flow 1:

Average throughput: 96.15 Mbit/s

95th percentile per-packet one-way delay: 71.426 ms

Loss rate: 0.42%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-01-09 09:11:06

End at: 2018-01-09 09:11:36

Below is generated by plot.py at 2018-01-09 11:15:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 60.88 Mbit/s

95th percentile per-packet one-way delay: 64.728 ms

Loss rate: 0.67%

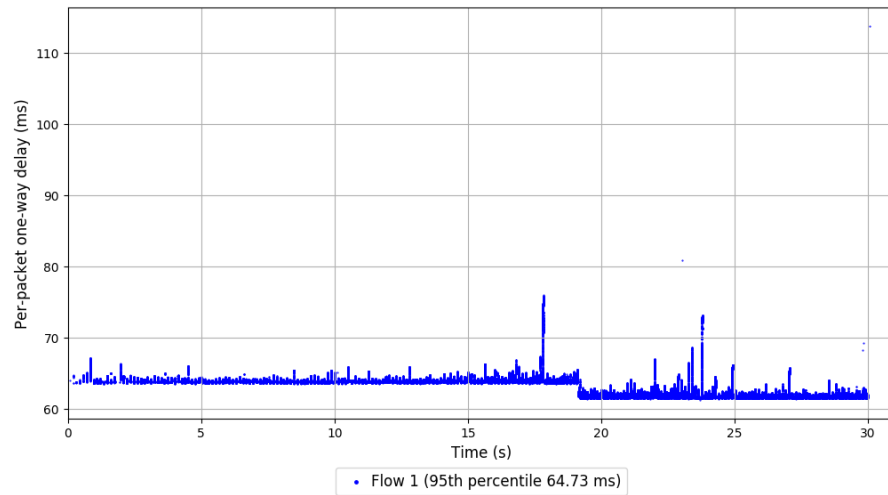
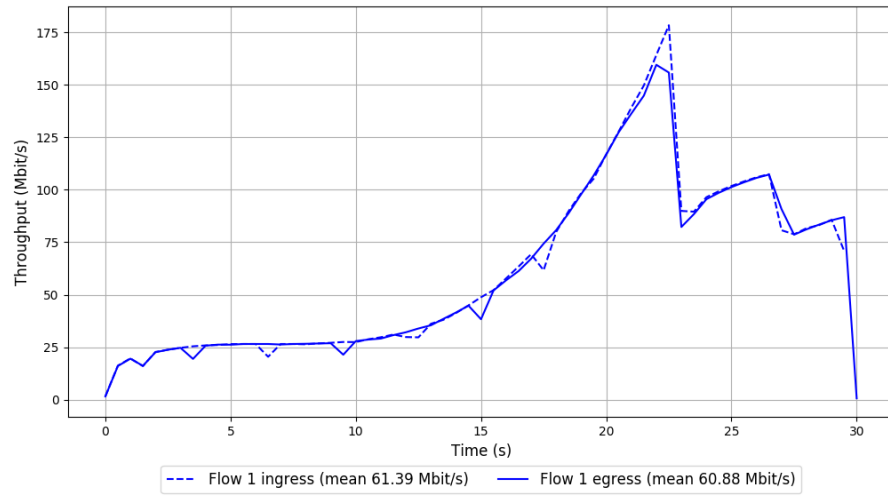
-- Flow 1:

Average throughput: 60.88 Mbit/s

95th percentile per-packet one-way delay: 64.728 ms

Loss rate: 0.67%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-01-09 09:22:48

End at: 2018-01-09 09:23:18

Below is generated by plot.py at 2018-01-09 11:16:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 126.49 Mbit/s

95th percentile per-packet one-way delay: 69.402 ms

Loss rate: 0.00%

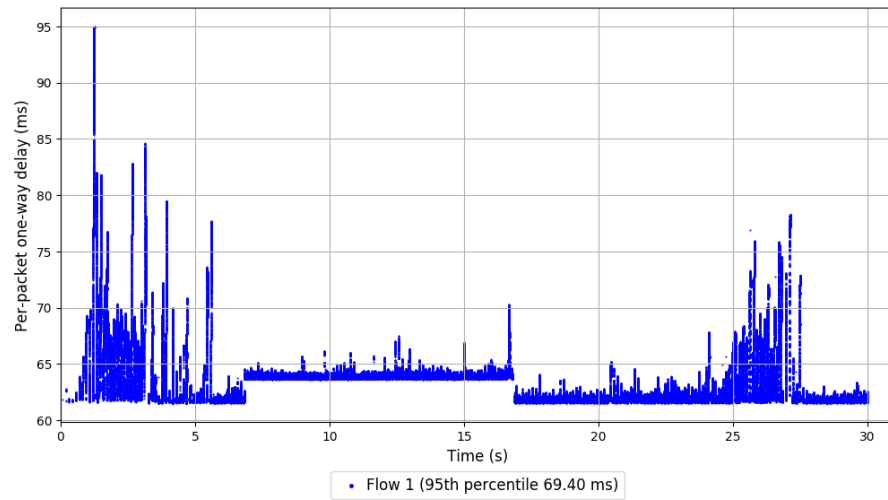
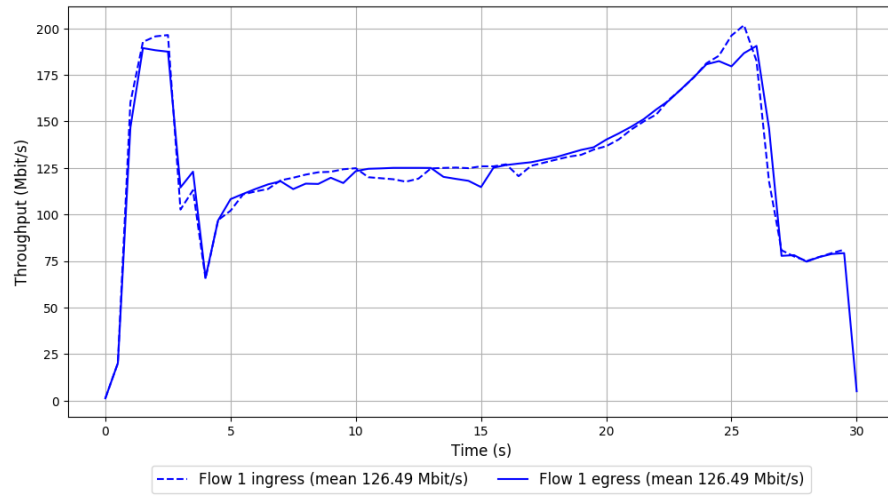
-- Flow 1:

Average throughput: 126.49 Mbit/s

95th percentile per-packet one-way delay: 69.402 ms

Loss rate: 0.00%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-01-09 09:34:39

End at: 2018-01-09 09:35:09

Below is generated by plot.py at 2018-01-09 11:16:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 126.10 Mbit/s

95th percentile per-packet one-way delay: 72.353 ms

Loss rate: 0.02%

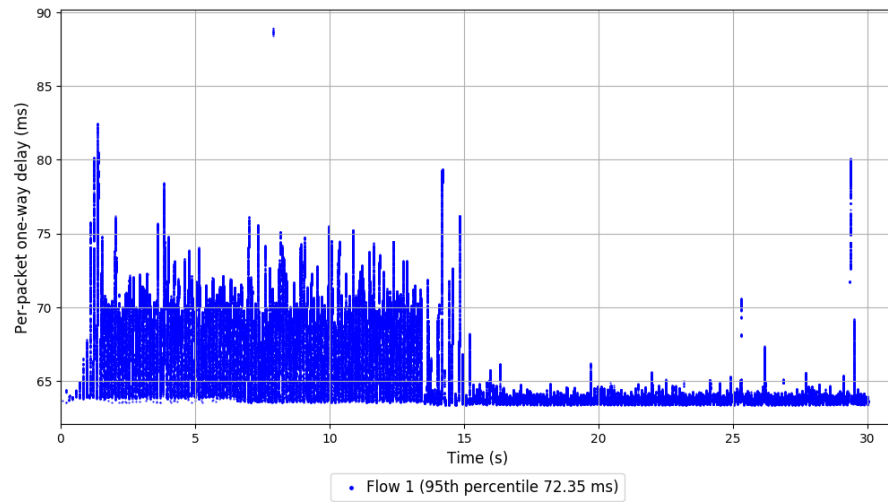
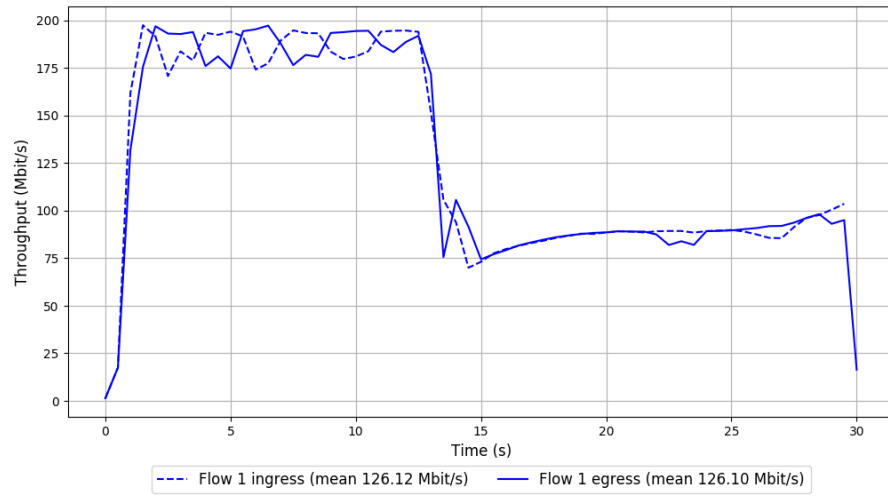
-- Flow 1:

Average throughput: 126.10 Mbit/s

95th percentile per-packet one-way delay: 72.353 ms

Loss rate: 0.02%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-01-09 09:46:24

End at: 2018-01-09 09:46:54

Below is generated by plot.py at 2018-01-09 11:16:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 88.61 Mbit/s

95th percentile per-packet one-way delay: 73.125 ms

Loss rate: 0.24%

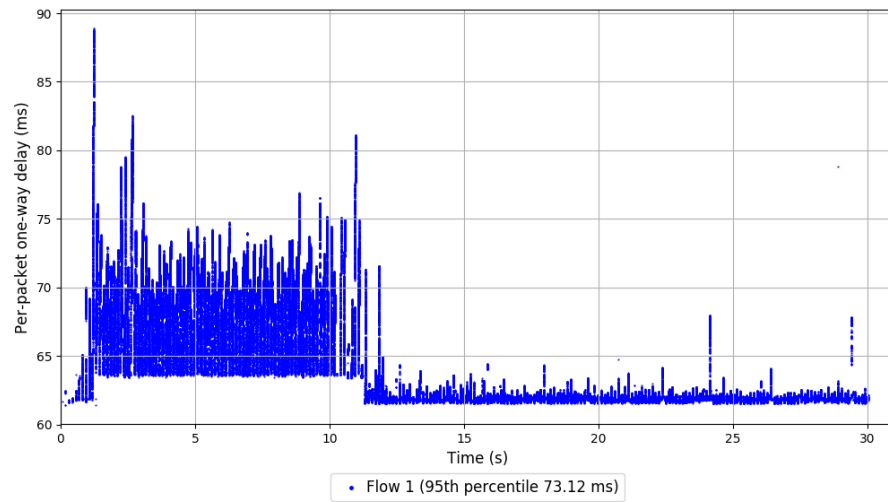
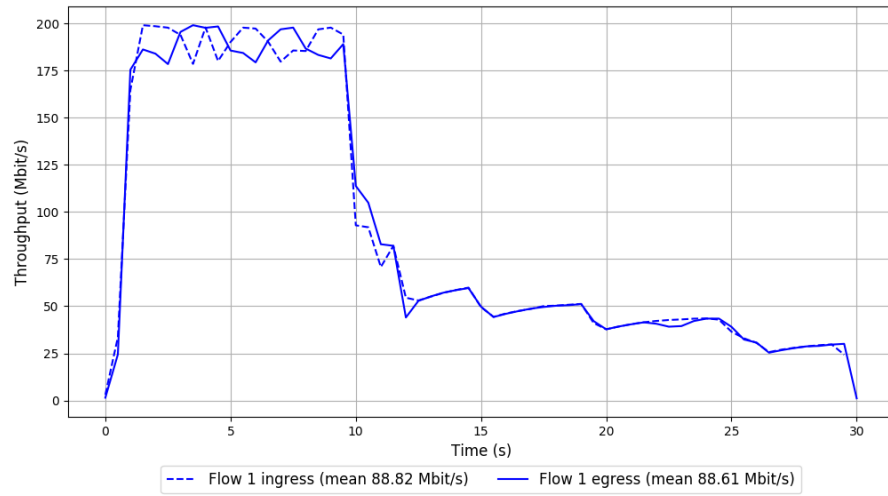
-- Flow 1:

Average throughput: 88.61 Mbit/s

95th percentile per-packet one-way delay: 73.125 ms

Loss rate: 0.24%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-01-09 09:57:47

End at: 2018-01-09 09:58:17

Below is generated by plot.py at 2018-01-09 11:16:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 99.59 Mbit/s

95th percentile per-packet one-way delay: 70.116 ms

Loss rate: 0.13%

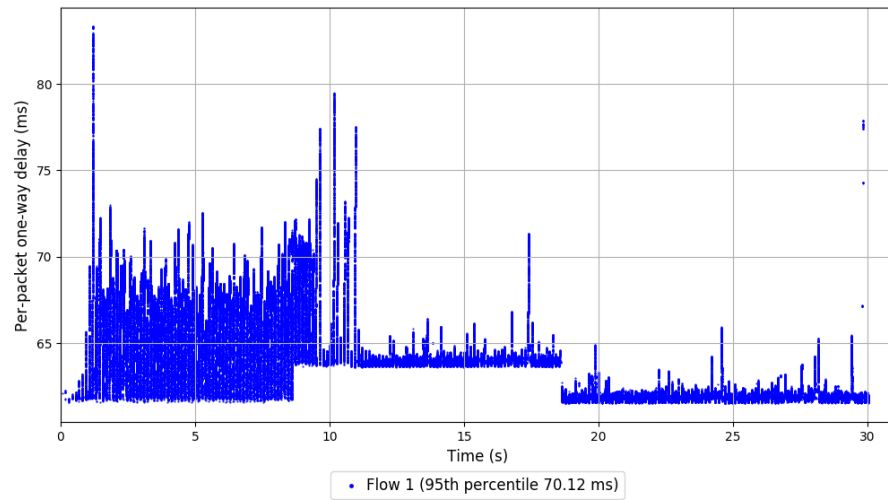
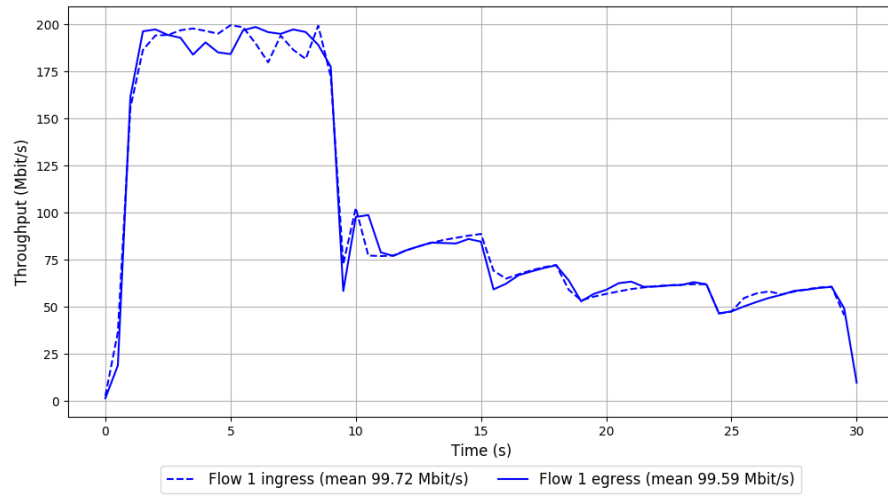
-- Flow 1:

Average throughput: 99.59 Mbit/s

95th percentile per-packet one-way delay: 70.116 ms

Loss rate: 0.13%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-01-09 10:09:19

End at: 2018-01-09 10:09:49

Below is generated by plot.py at 2018-01-09 11:16:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 101.16 Mbit/s

95th percentile per-packet one-way delay: 70.817 ms

Loss rate: 0.40%

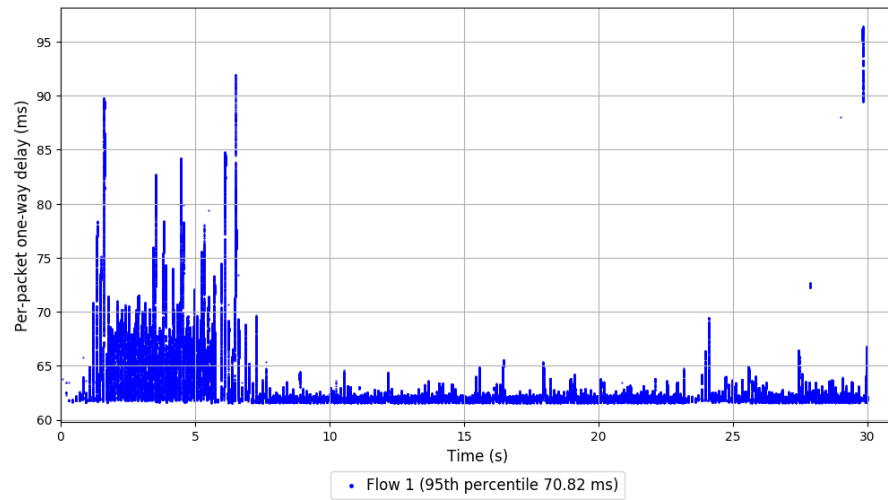
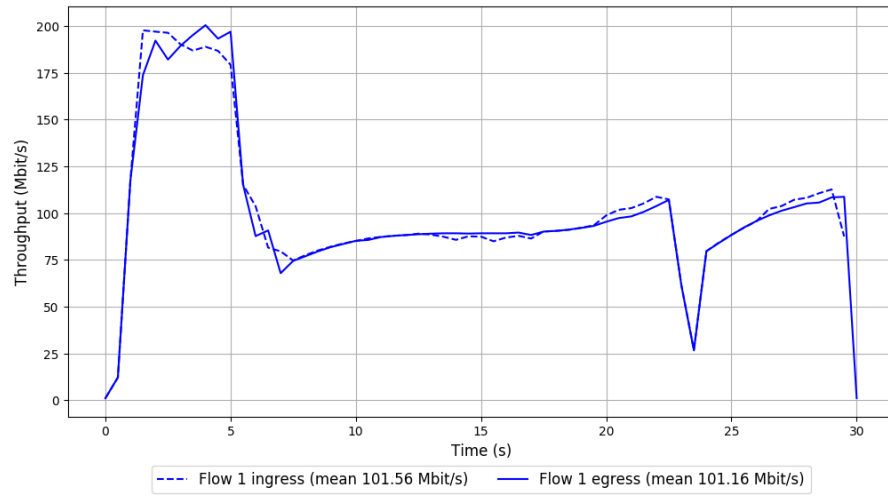
-- Flow 1:

Average throughput: 101.16 Mbit/s

95th percentile per-packet one-way delay: 70.817 ms

Loss rate: 0.40%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-01-09 10:20:55

End at: 2018-01-09 10:21:25

Below is generated by plot.py at 2018-01-09 11:17:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.50 Mbit/s

95th percentile per-packet one-way delay: 72.044 ms

Loss rate: 0.00%

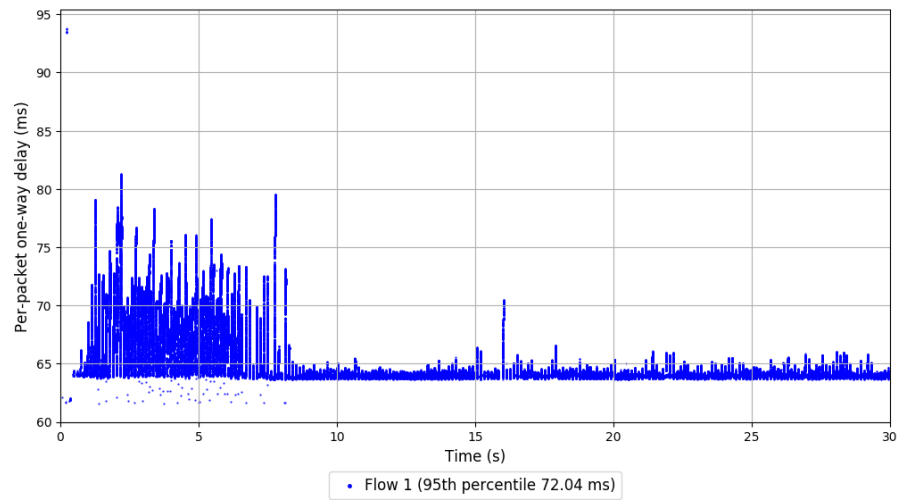
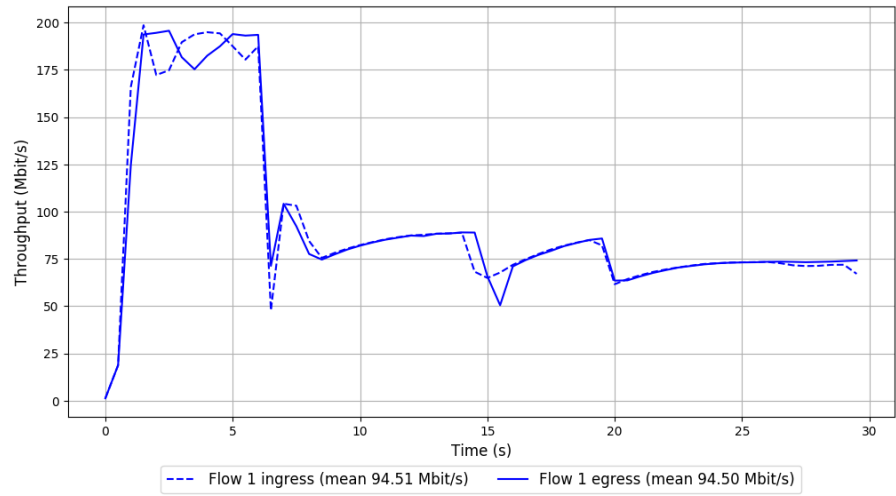
-- Flow 1:

Average throughput: 94.50 Mbit/s

95th percentile per-packet one-way delay: 72.044 ms

Loss rate: 0.00%

Run 10: Report of TCP Cubic — Data Link

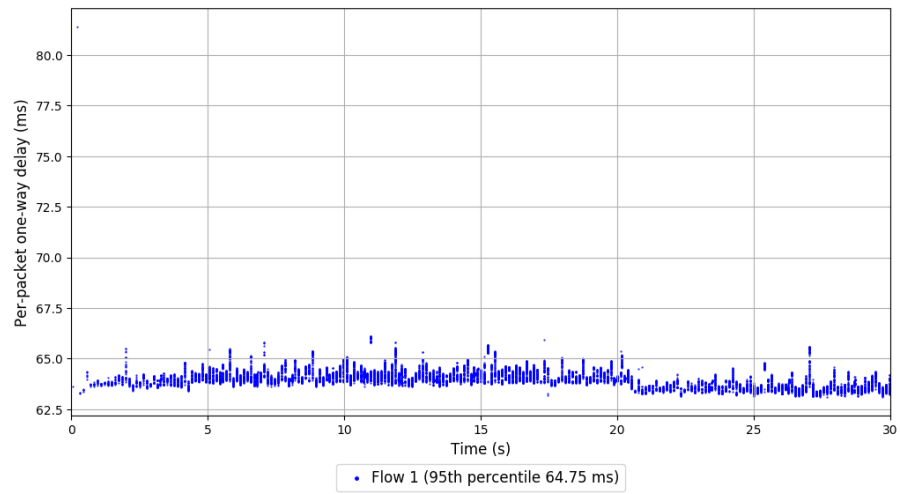
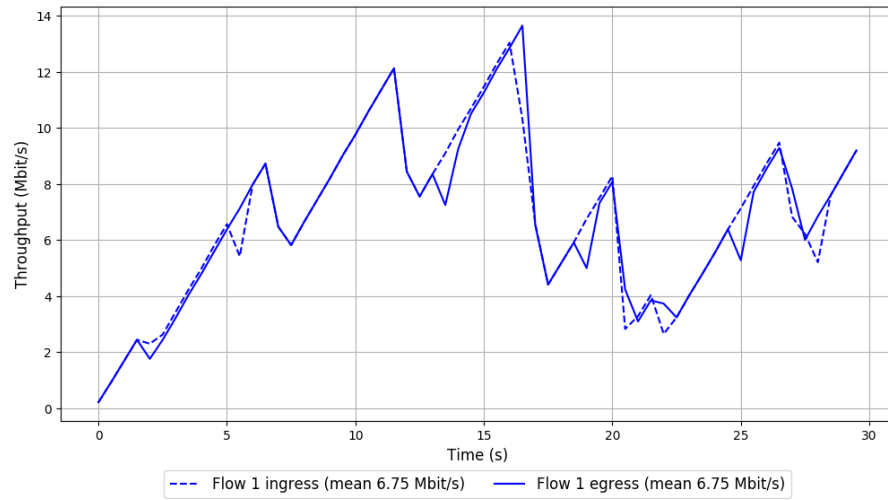


```
Run 1: Statistics of LEDBAT

Start at: 2018-01-09 08:32:25
End at: 2018-01-09 08:32:55

# Below is generated by plot.py at 2018-01-09 11:17:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 6.75 Mbit/s
95th percentile per-packet one-way delay: 64.749 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 6.75 Mbit/s
95th percentile per-packet one-way delay: 64.749 ms
Loss rate: 0.02%
```


Run 1: Report of LEDBAT — Data Link

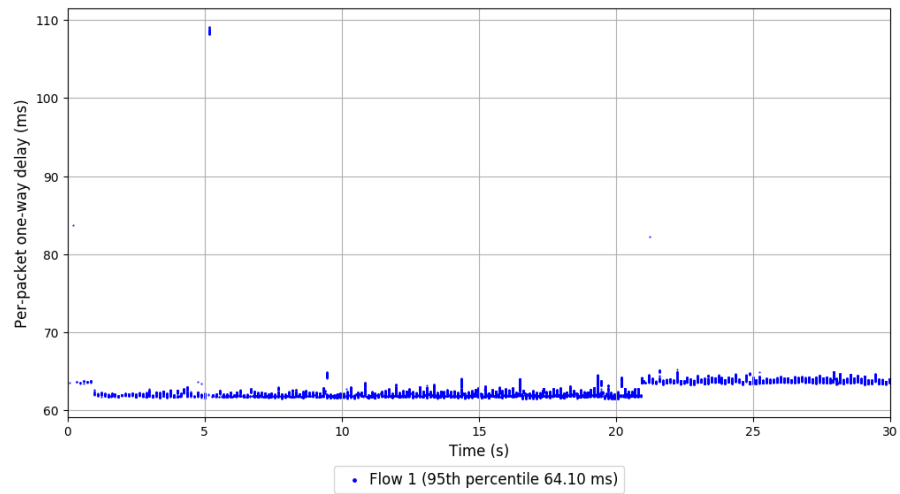
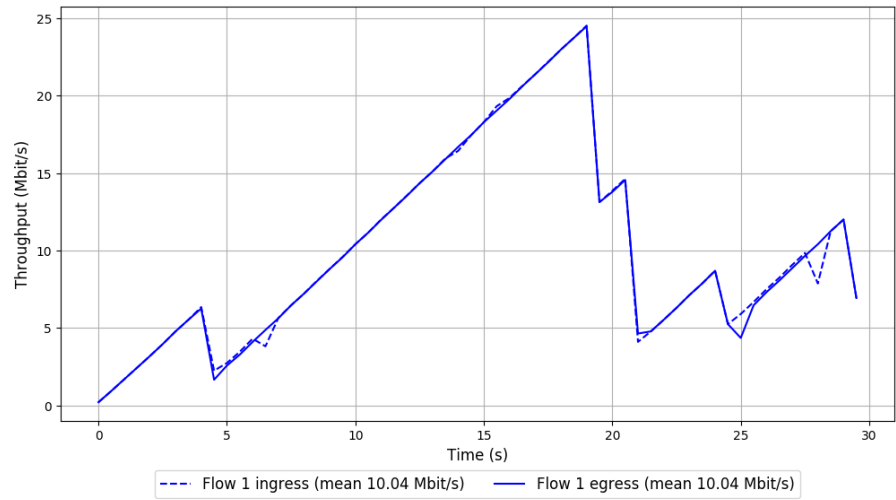


```
Run 2: Statistics of LEDBAT

Start at: 2018-01-09 08:43:44
End at: 2018-01-09 08:44:14

# Below is generated by plot.py at 2018-01-09 11:17:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 10.04 Mbit/s
95th percentile per-packet one-way delay: 64.103 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 10.04 Mbit/s
95th percentile per-packet one-way delay: 64.103 ms
Loss rate: 0.02%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-01-09 08:54:38

End at: 2018-01-09 08:55:08

Below is generated by plot.py at 2018-01-09 11:17:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.38 Mbit/s

95th percentile per-packet one-way delay: 64.754 ms

Loss rate: 0.05%

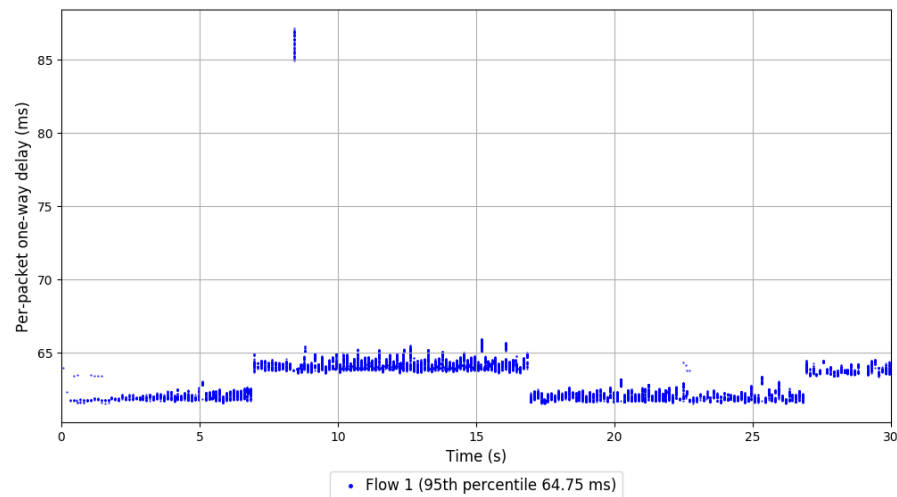
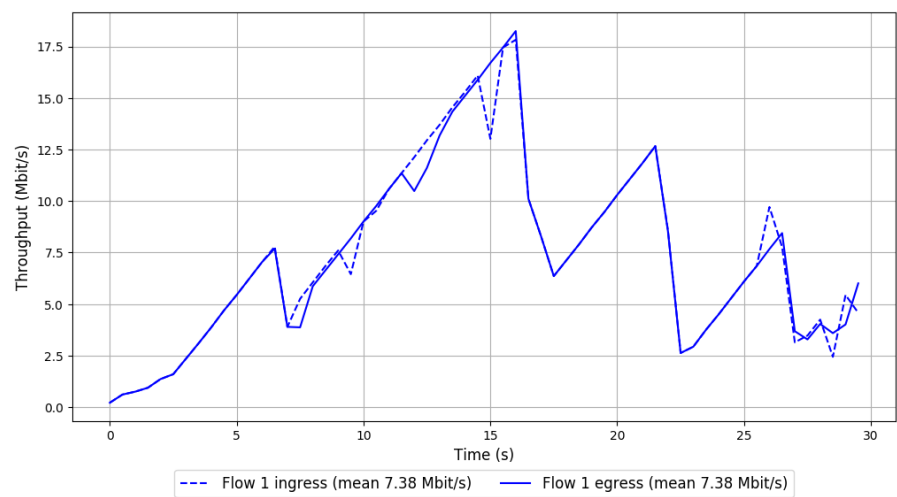
-- Flow 1:

Average throughput: 7.38 Mbit/s

95th percentile per-packet one-way delay: 64.754 ms

Loss rate: 0.05%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-01-09 09:06:14

End at: 2018-01-09 09:06:44

Below is generated by plot.py at 2018-01-09 11:17:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.95 Mbit/s

95th percentile per-packet one-way delay: 64.607 ms

Loss rate: 0.06%

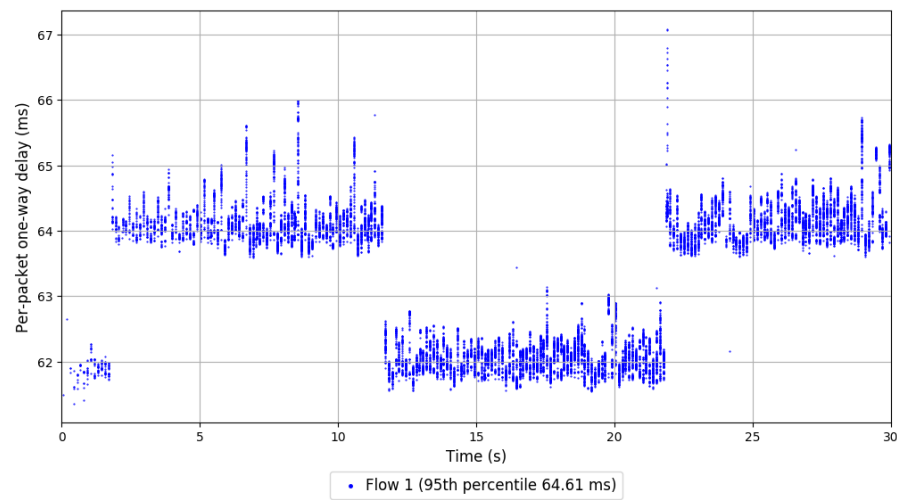
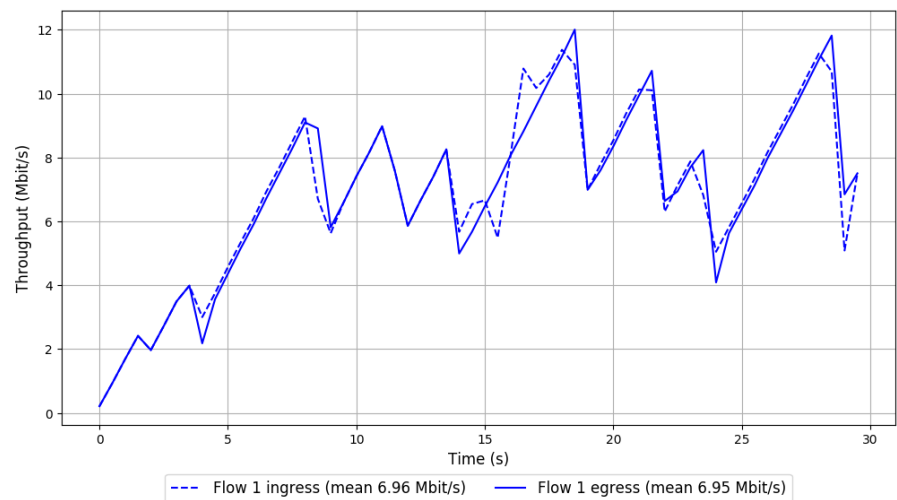
-- Flow 1:

Average throughput: 6.95 Mbit/s

95th percentile per-packet one-way delay: 64.607 ms

Loss rate: 0.06%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-01-09 09:17:42

End at: 2018-01-09 09:18:12

Below is generated by plot.py at 2018-01-09 11:17:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.01 Mbit/s

95th percentile per-packet one-way delay: 64.440 ms

Loss rate: 0.26%

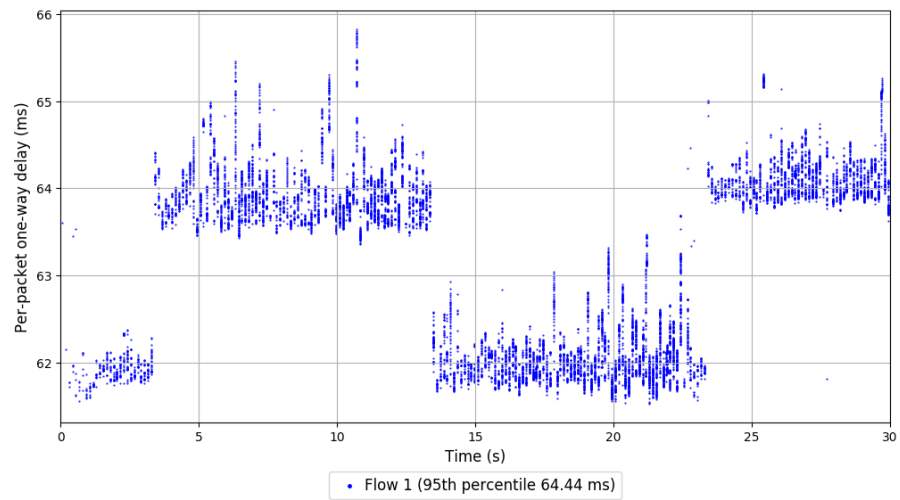
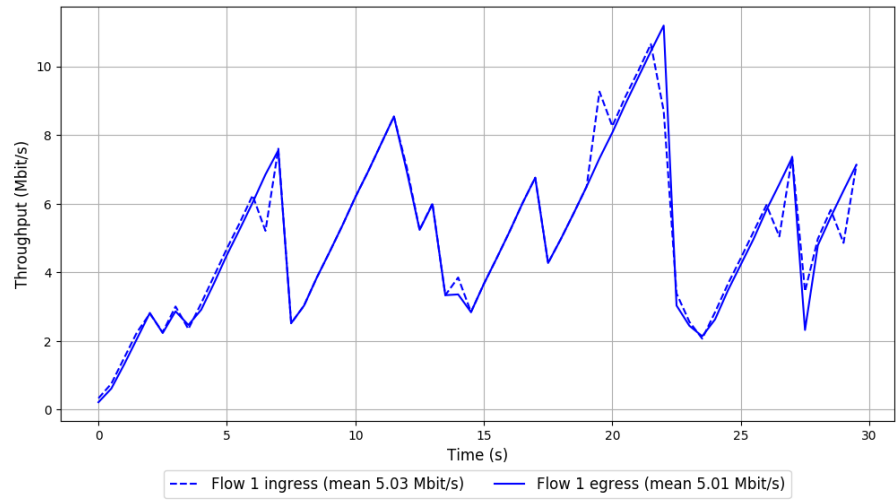
-- Flow 1:

Average throughput: 5.01 Mbit/s

95th percentile per-packet one-way delay: 64.440 ms

Loss rate: 0.26%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-01-09 09:29:27

End at: 2018-01-09 09:29:57

Below is generated by plot.py at 2018-01-09 11:17:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.63 Mbit/s

95th percentile per-packet one-way delay: 64.642 ms

Loss rate: 0.59%

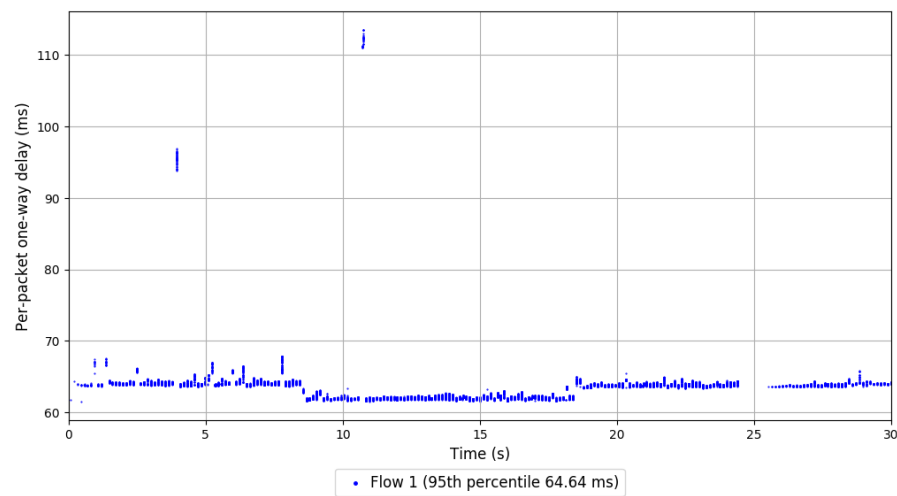
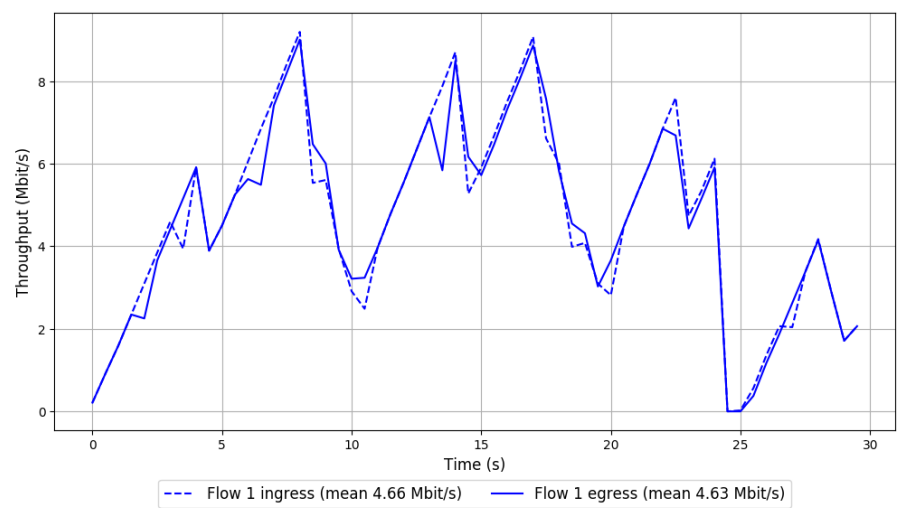
-- Flow 1:

Average throughput: 4.63 Mbit/s

95th percentile per-packet one-way delay: 64.642 ms

Loss rate: 0.59%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-01-09 09:41:16

End at: 2018-01-09 09:41:46

Below is generated by plot.py at 2018-01-09 11:17:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.48 Mbit/s

95th percentile per-packet one-way delay: 64.518 ms

Loss rate: 2.78%

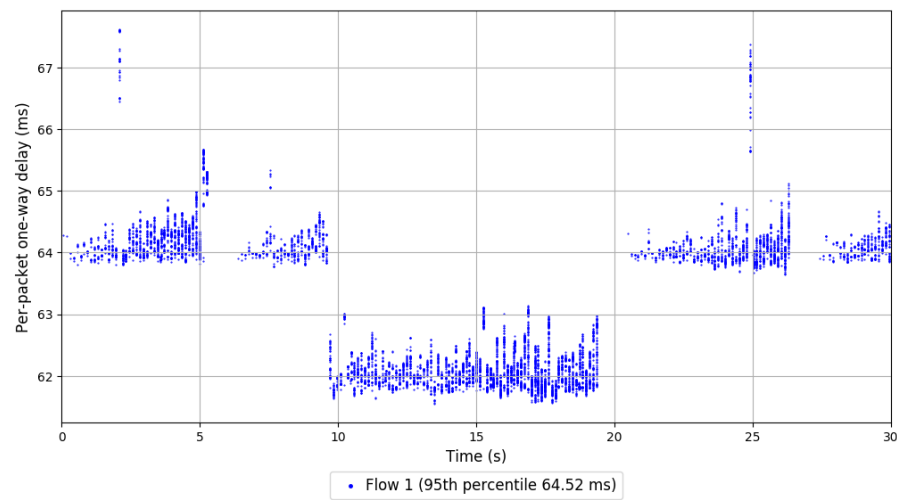
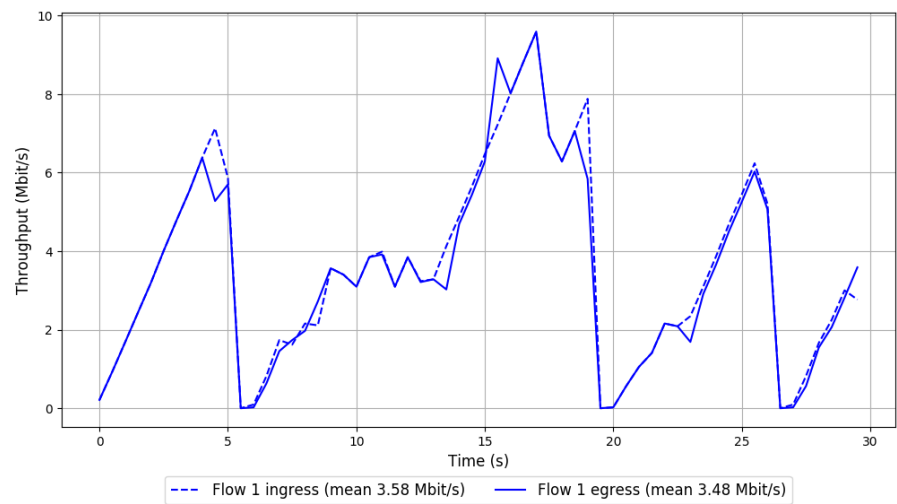
-- Flow 1:

Average throughput: 3.48 Mbit/s

95th percentile per-packet one-way delay: 64.518 ms

Loss rate: 2.78%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-01-09 09:52:58

End at: 2018-01-09 09:53:28

Below is generated by plot.py at 2018-01-09 11:17:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.14 Mbit/s

95th percentile per-packet one-way delay: 64.245 ms

Loss rate: 1.94%

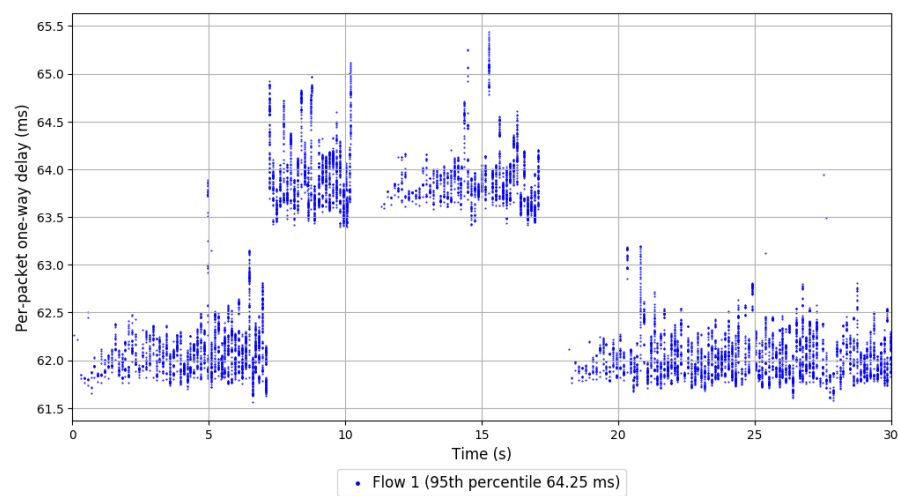
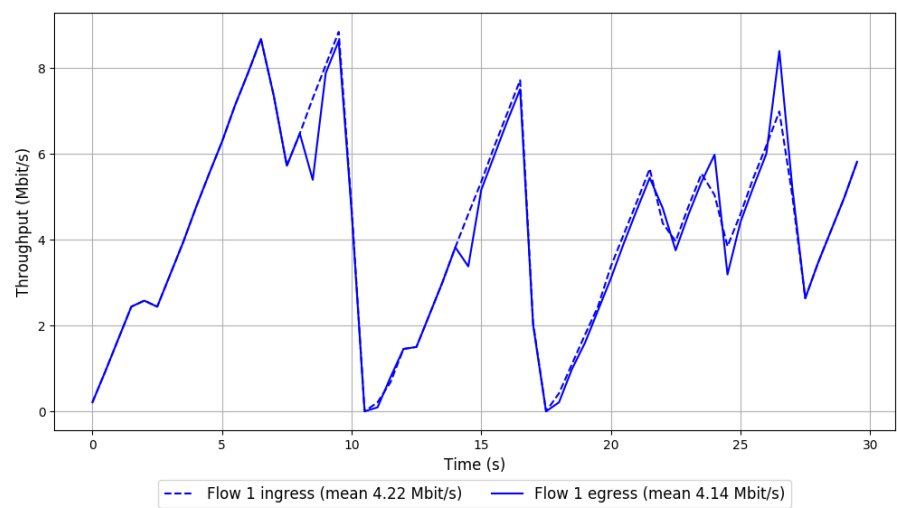
-- Flow 1:

Average throughput: 4.14 Mbit/s

95th percentile per-packet one-way delay: 64.245 ms

Loss rate: 1.94%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-01-09 10:04:23

End at: 2018-01-09 10:04:53

Below is generated by plot.py at 2018-01-09 11:17:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.46 Mbit/s

95th percentile per-packet one-way delay: 64.510 ms

Loss rate: 2.71%

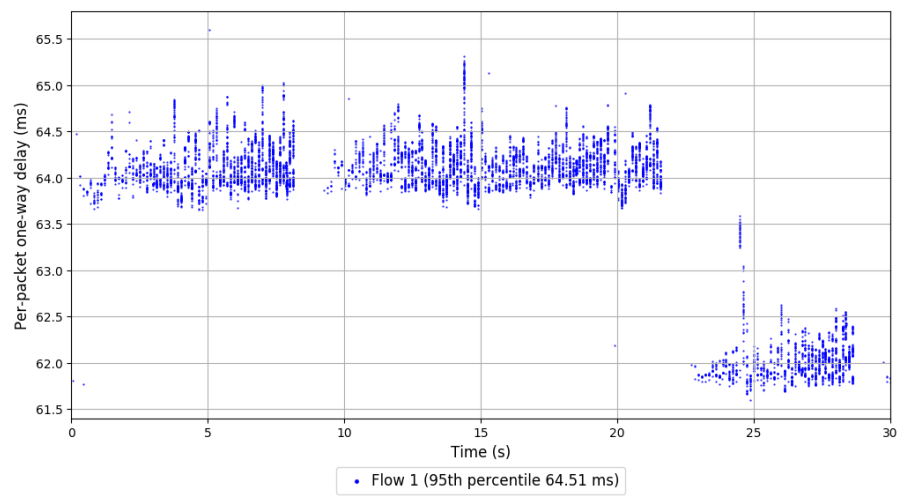
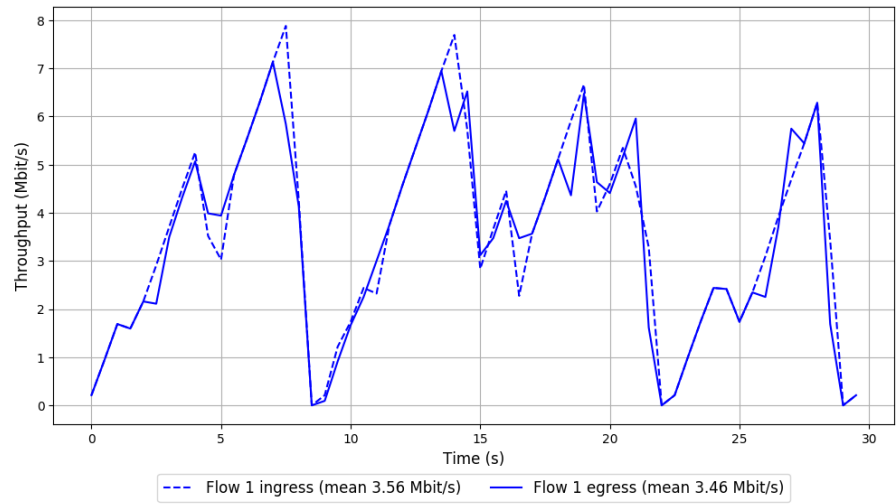
-- Flow 1:

Average throughput: 3.46 Mbit/s

95th percentile per-packet one-way delay: 64.510 ms

Loss rate: 2.71%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-01-09 10:15:51

End at: 2018-01-09 10:16:21

Below is generated by plot.py at 2018-01-09 11:17:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.00 Mbit/s

95th percentile per-packet one-way delay: 64.418 ms

Loss rate: 0.09%

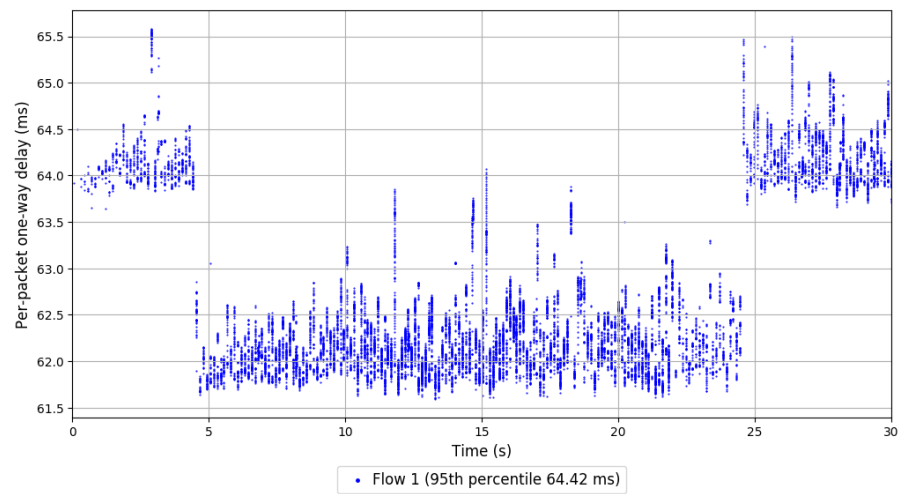
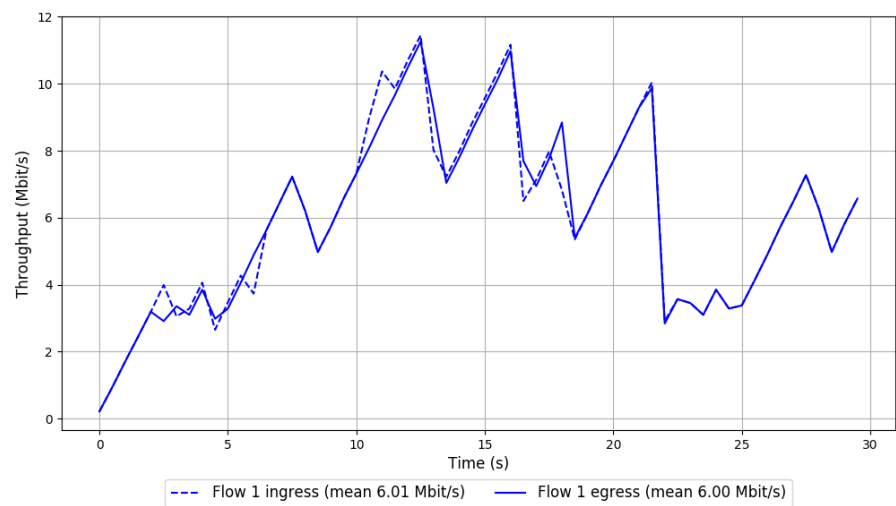
-- Flow 1:

Average throughput: 6.00 Mbit/s

95th percentile per-packet one-way delay: 64.418 ms

Loss rate: 0.09%

Run 10: Report of LEDBAT — Data Link

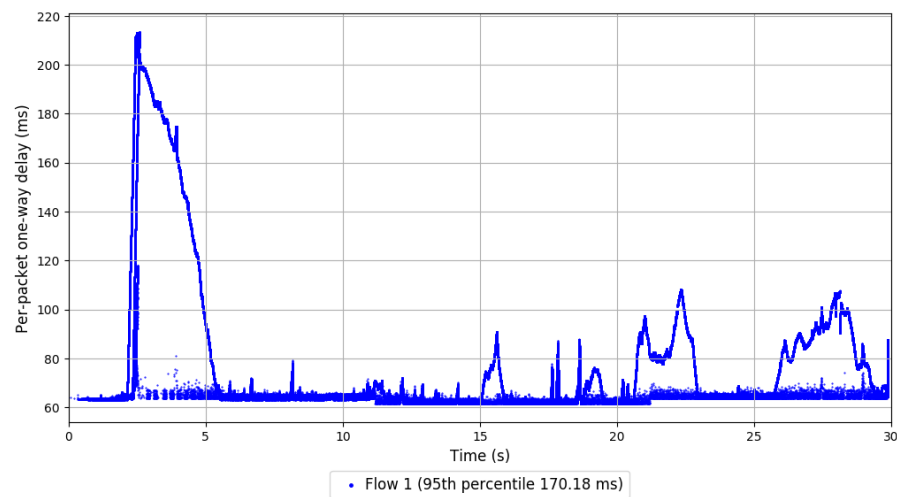
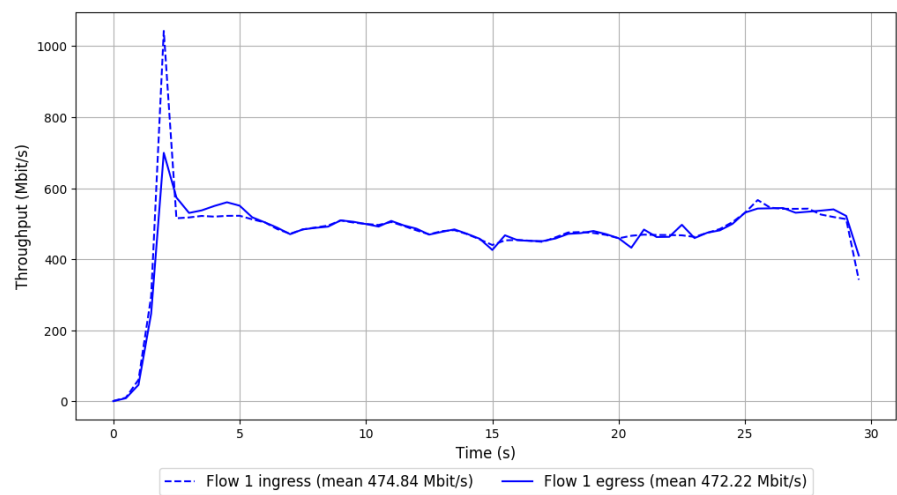


```
Run 1: Statistics of PCC

Start at: 2018-01-09 08:33:03
End at: 2018-01-09 08:33:33

# Below is generated by plot.py at 2018-01-09 11:23:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 472.22 Mbit/s
95th percentile per-packet one-way delay: 170.184 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 472.22 Mbit/s
95th percentile per-packet one-way delay: 170.184 ms
Loss rate: 0.56%
```

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2018-01-09 08:44:23

End at: 2018-01-09 08:44:53

Below is generated by plot.py at 2018-01-09 11:23:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 394.96 Mbit/s

95th percentile per-packet one-way delay: 96.836 ms

Loss rate: 0.10%

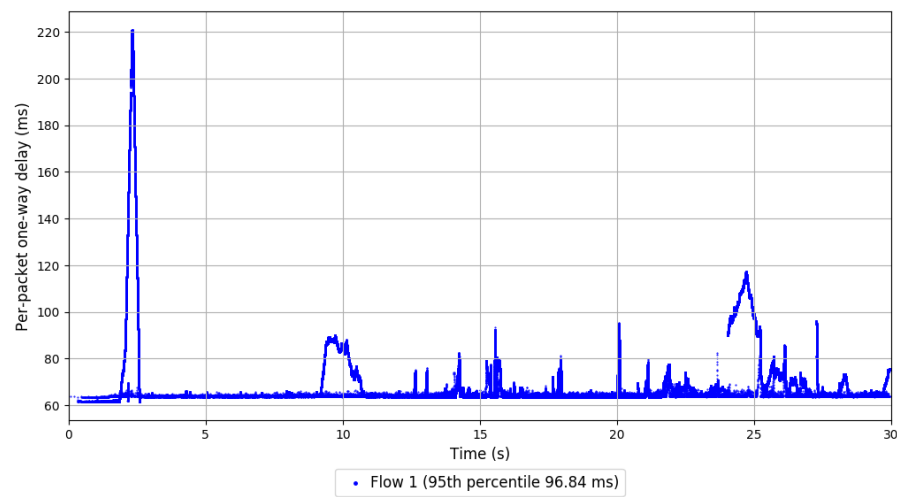
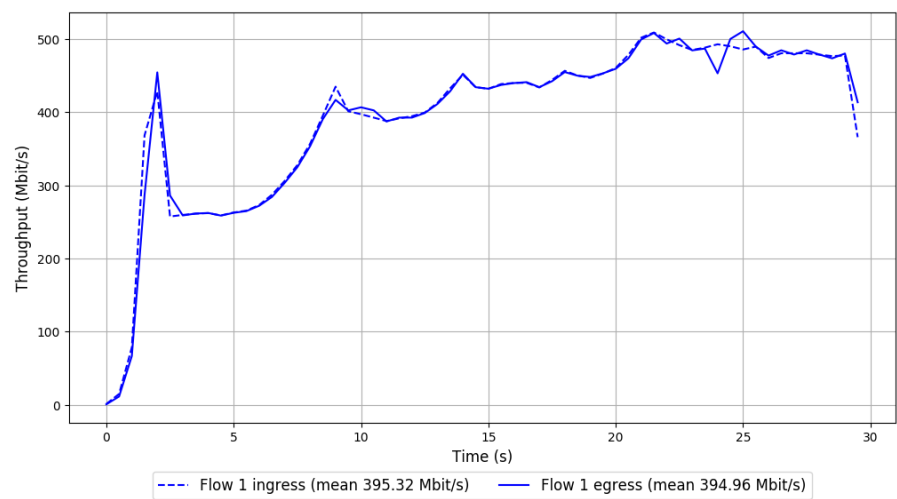
-- Flow 1:

Average throughput: 394.96 Mbit/s

95th percentile per-packet one-way delay: 96.836 ms

Loss rate: 0.10%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2018-01-09 08:55:17

End at: 2018-01-09 08:55:47

Below is generated by plot.py at 2018-01-09 11:23:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 455.90 Mbit/s

95th percentile per-packet one-way delay: 202.038 ms

Loss rate: 1.11%

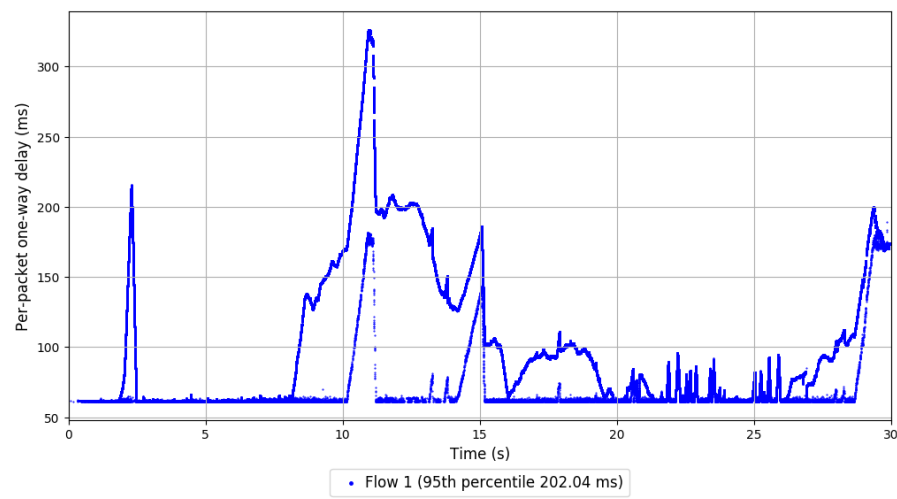
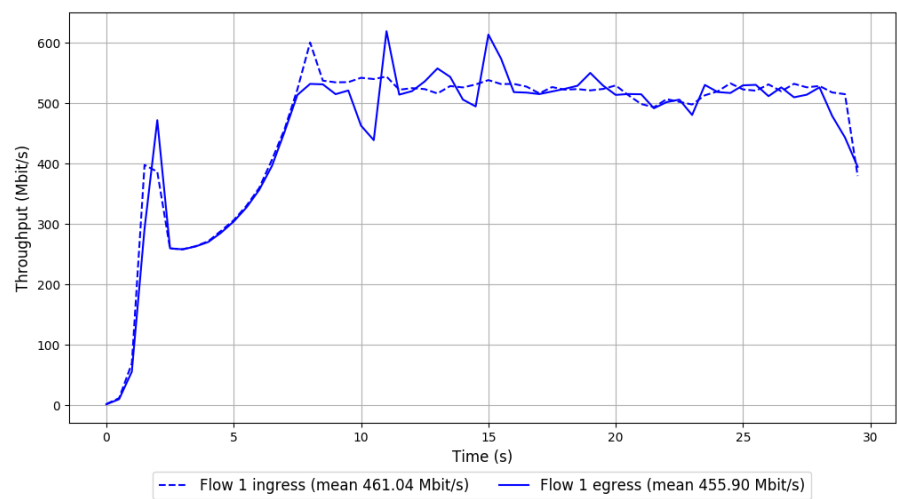
-- Flow 1:

Average throughput: 455.90 Mbit/s

95th percentile per-packet one-way delay: 202.038 ms

Loss rate: 1.11%

Run 3: Report of PCC — Data Link

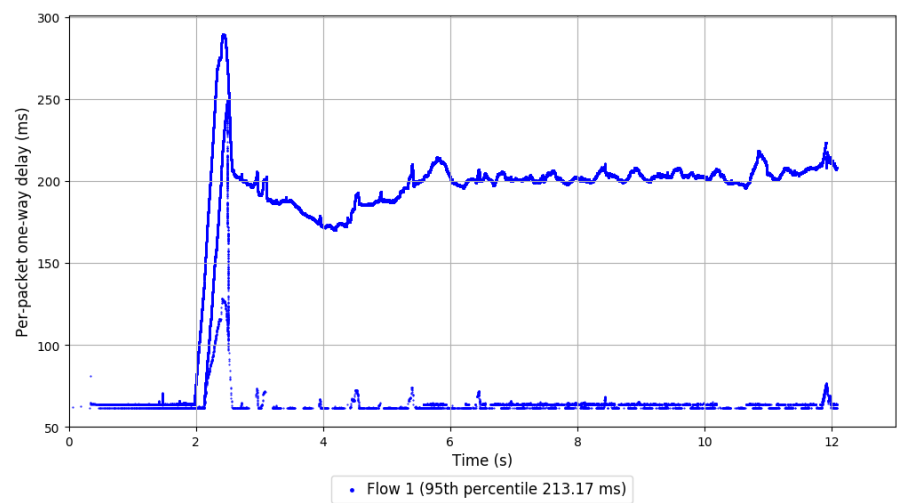
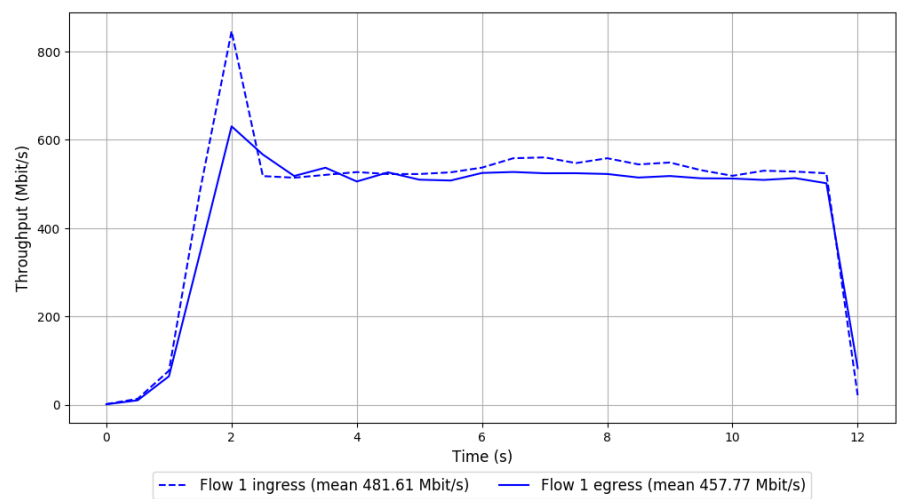


Run 4: Statistics of PCC

Start at: 2018-01-09 09:06:52

End at: 2018-01-09 09:07:22

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2018-01-09 09:18:20

End at: 2018-01-09 09:18:50

Below is generated by plot.py at 2018-01-09 11:23:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 453.15 Mbit/s

95th percentile per-packet one-way delay: 176.997 ms

Loss rate: 0.47%

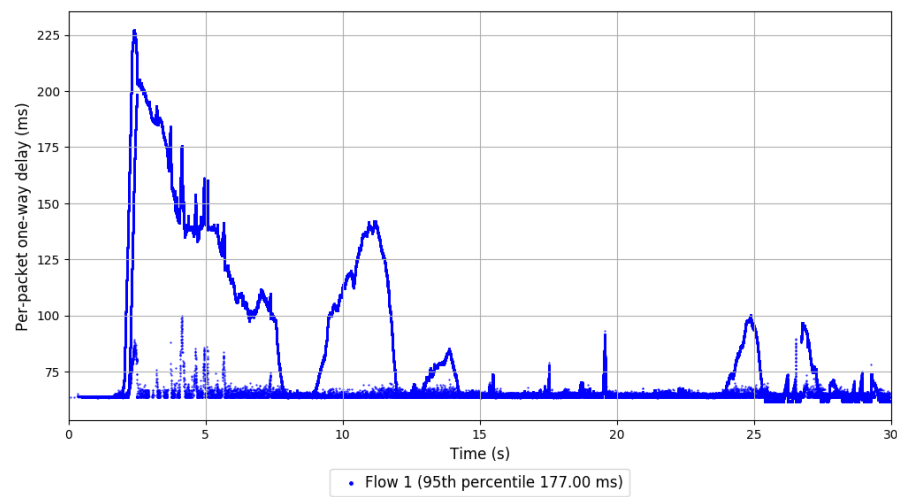
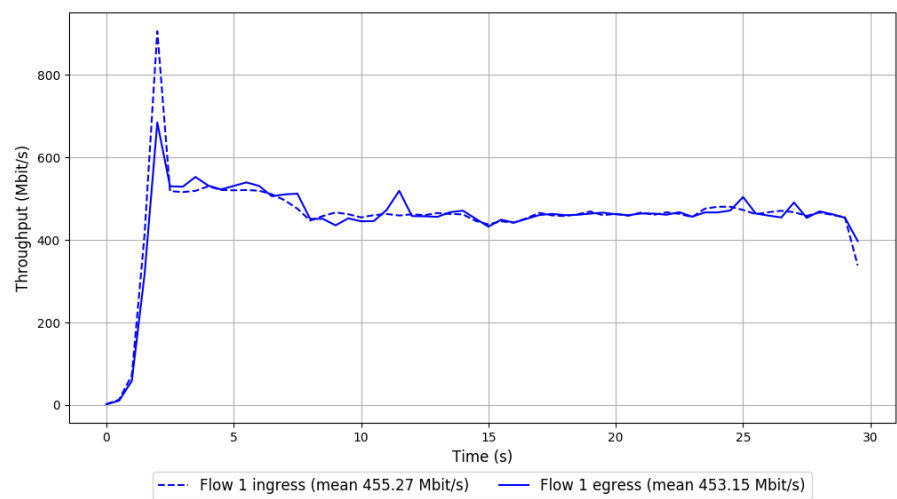
-- Flow 1:

Average throughput: 453.15 Mbit/s

95th percentile per-packet one-way delay: 176.997 ms

Loss rate: 0.47%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2018-01-09 09:30:05

End at: 2018-01-09 09:30:35

Below is generated by plot.py at 2018-01-09 11:23:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 477.28 Mbit/s

95th percentile per-packet one-way delay: 216.509 ms

Loss rate: 4.26%

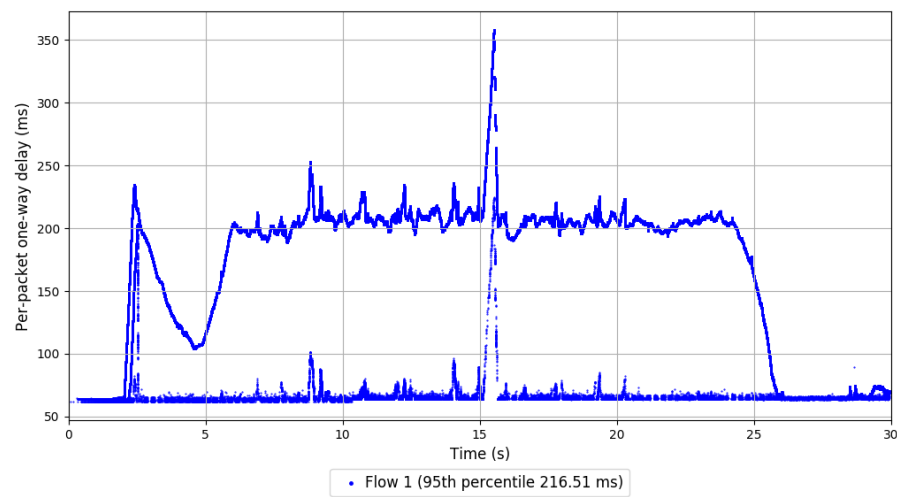
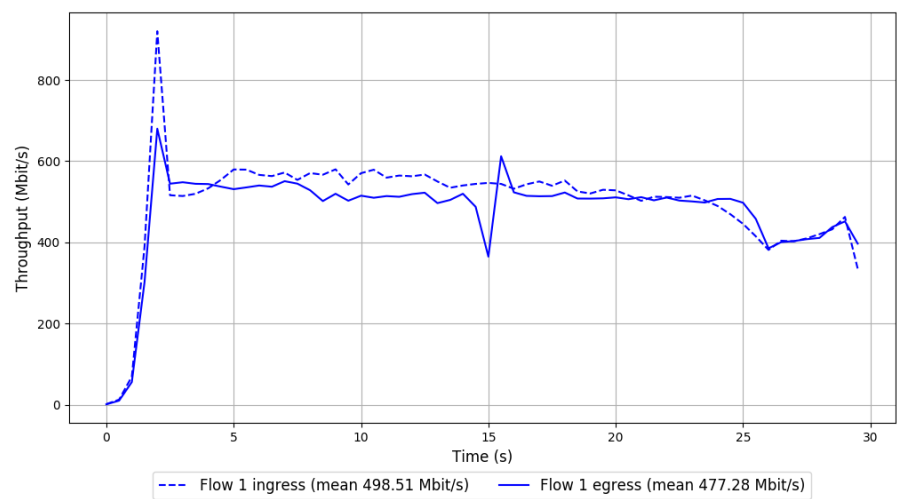
-- Flow 1:

Average throughput: 477.28 Mbit/s

95th percentile per-packet one-way delay: 216.509 ms

Loss rate: 4.26%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2018-01-09 09:41:54

End at: 2018-01-09 09:42:24

Below is generated by plot.py at 2018-01-09 11:23:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 461.07 Mbit/s

95th percentile per-packet one-way delay: 224.183 ms

Loss rate: 1.85%

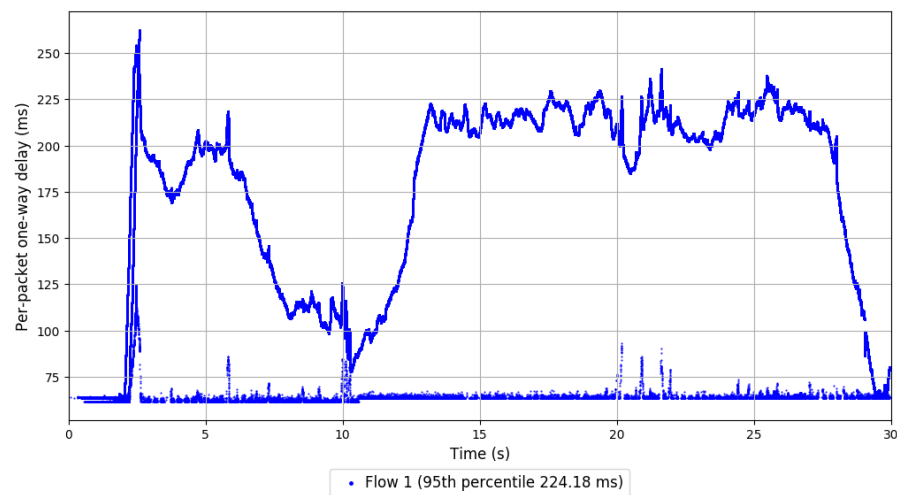
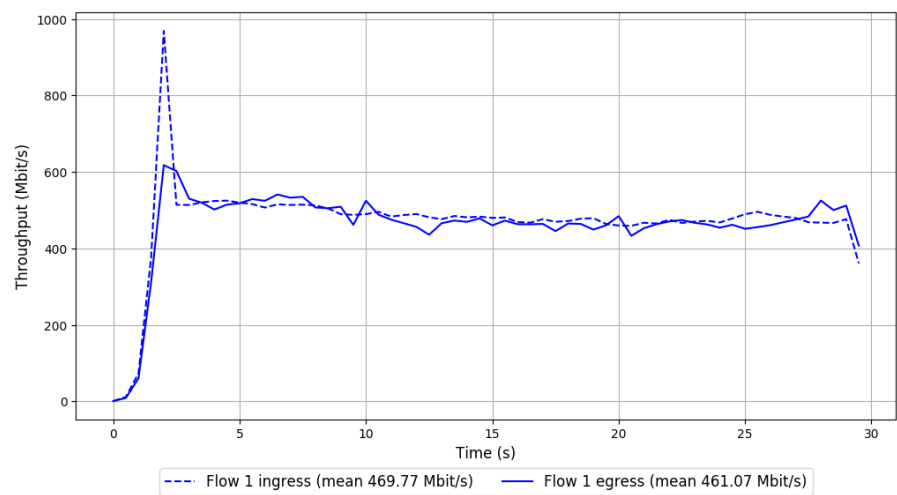
-- Flow 1:

Average throughput: 461.07 Mbit/s

95th percentile per-packet one-way delay: 224.183 ms

Loss rate: 1.85%

Run 7: Report of PCC — Data Link

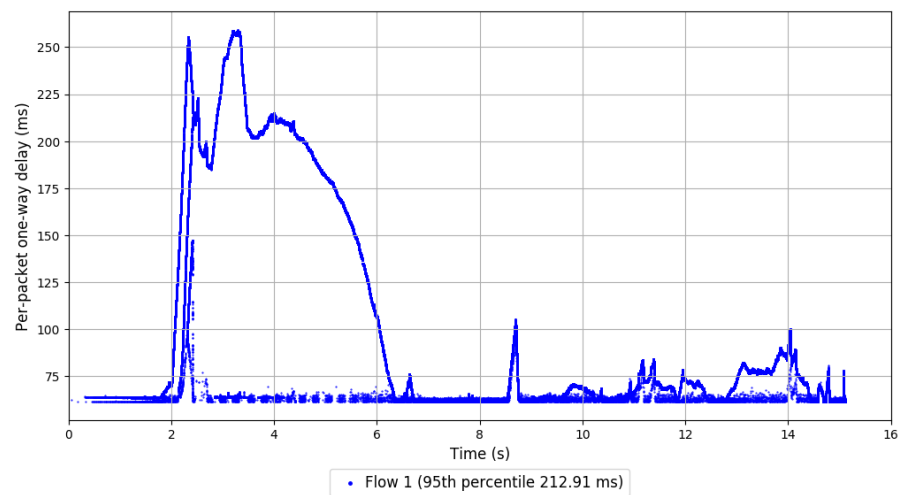
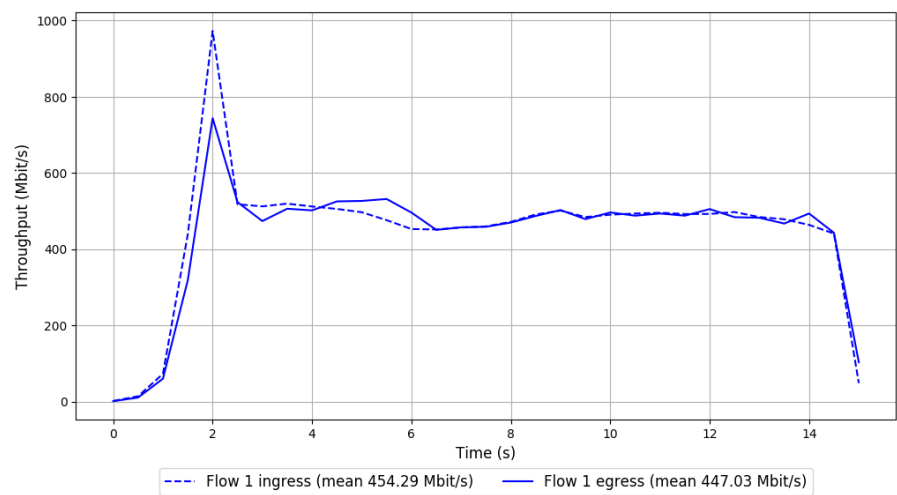


Run 8: Statistics of PCC

Start at: 2018-01-09 09:53:36

End at: 2018-01-09 09:54:06

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2018-01-09 10:05:00

End at: 2018-01-09 10:05:30

Below is generated by plot.py at 2018-01-09 11:27:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 490.64 Mbit/s

95th percentile per-packet one-way delay: 195.713 ms

Loss rate: 0.76%

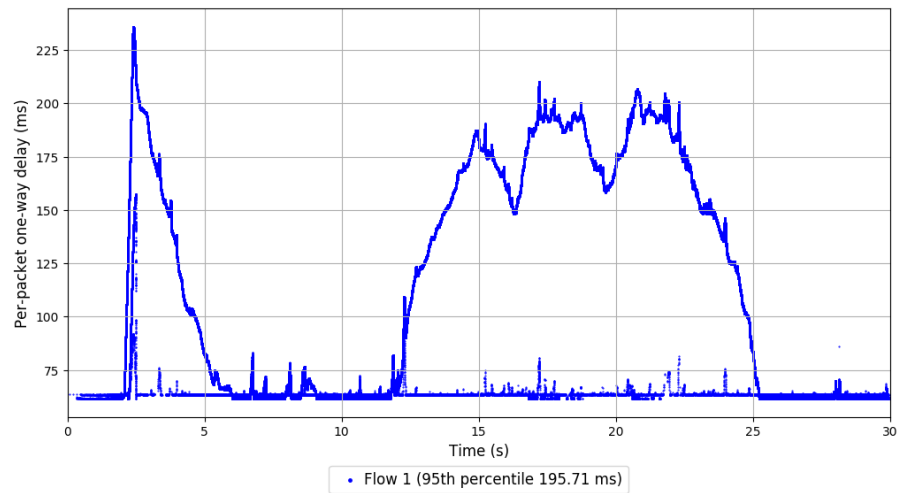
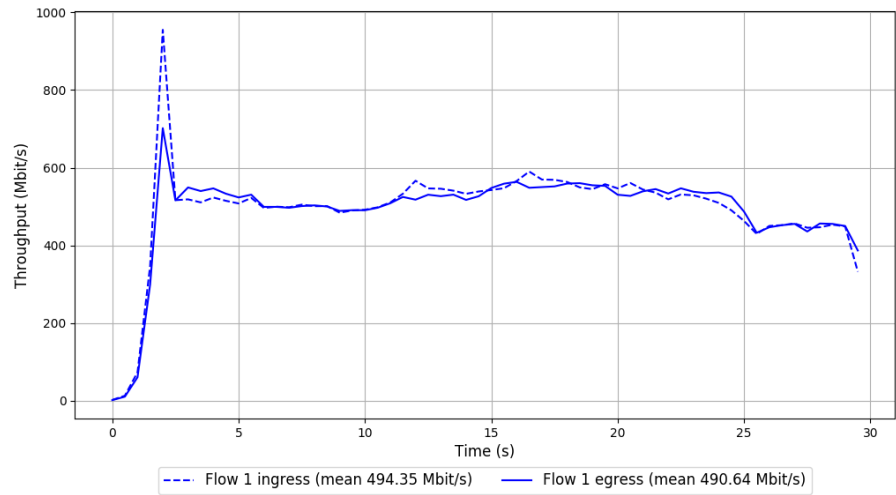
-- Flow 1:

Average throughput: 490.64 Mbit/s

95th percentile per-packet one-way delay: 195.713 ms

Loss rate: 0.76%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2018-01-09 10:16:29

End at: 2018-01-09 10:16:59

Below is generated by plot.py at 2018-01-09 11:28:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 462.83 Mbit/s

95th percentile per-packet one-way delay: 160.874 ms

Loss rate: 0.84%

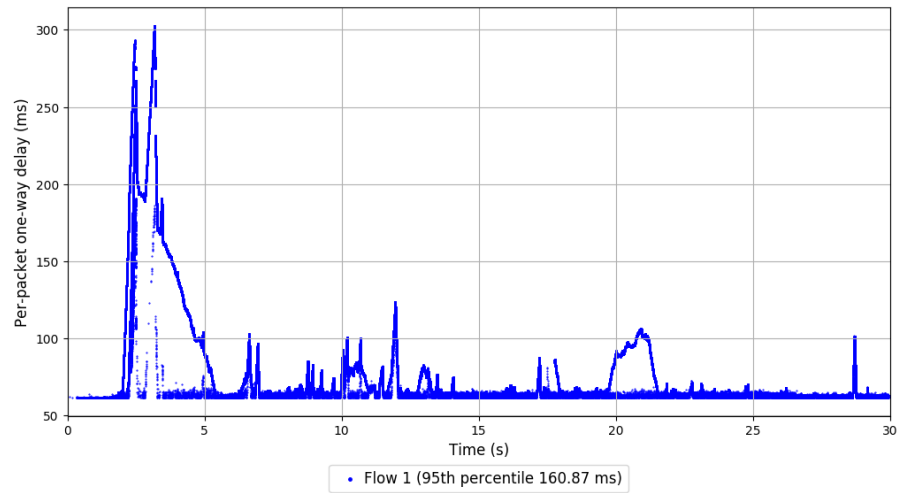
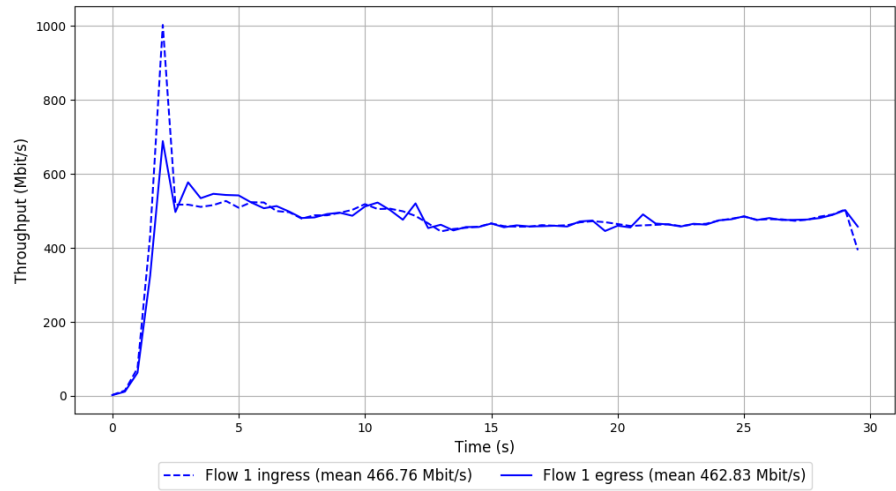
-- Flow 1:

Average throughput: 462.83 Mbit/s

95th percentile per-packet one-way delay: 160.874 ms

Loss rate: 0.84%

Run 10: Report of PCC — Data Link

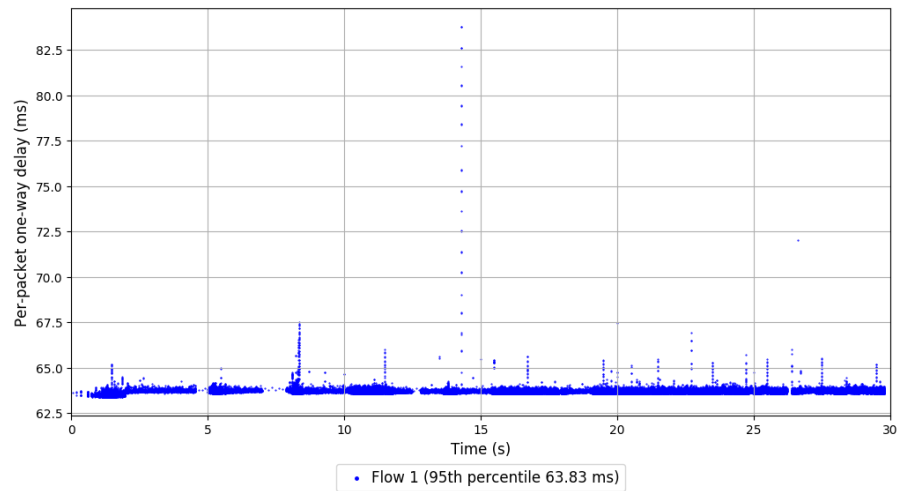
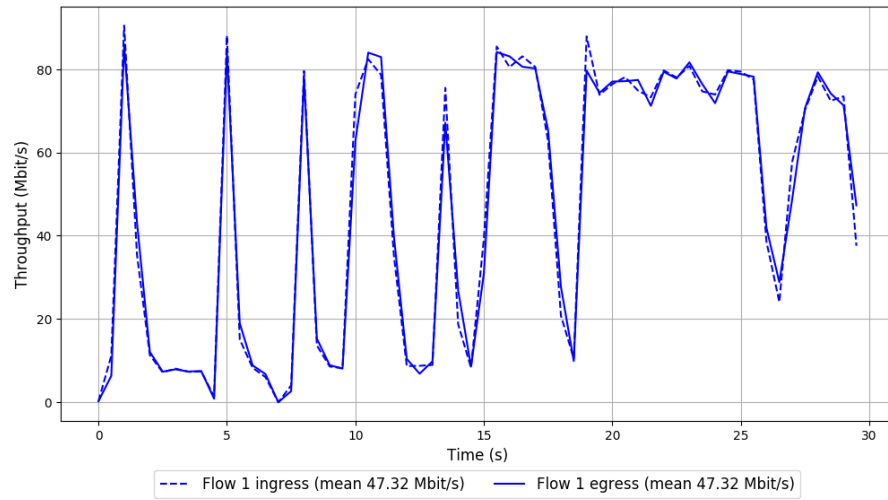


```
Run 1: Statistics of QUIC Cubic

Start at: 2018-01-09 08:36:32
End at: 2018-01-09 08:37:02

# Below is generated by plot.py at 2018-01-09 11:28:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 47.32 Mbit/s
95th percentile per-packet one-way delay: 63.832 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 47.32 Mbit/s
95th percentile per-packet one-way delay: 63.832 ms
Loss rate: 0.00%
```


Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-01-09 08:47:24

End at: 2018-01-09 08:47:54

Below is generated by plot.py at 2018-01-09 11:28:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 46.99 Mbit/s

95th percentile per-packet one-way delay: 63.849 ms

Loss rate: 0.01%

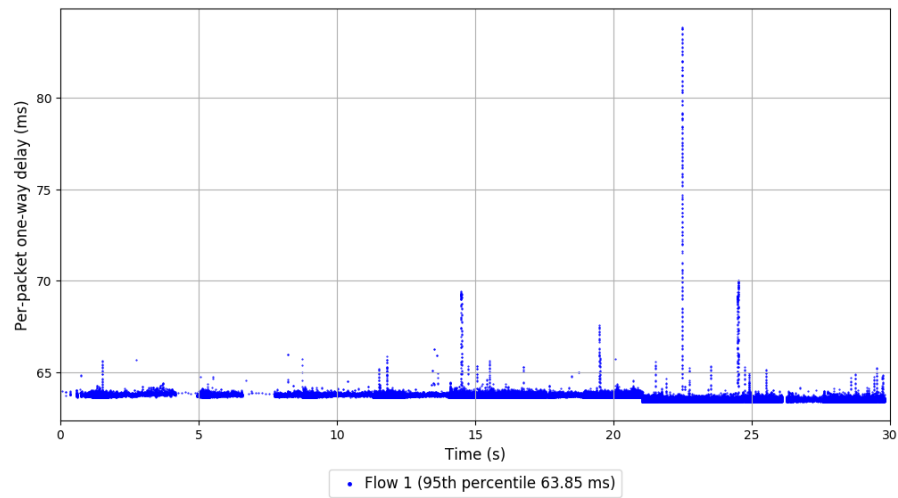
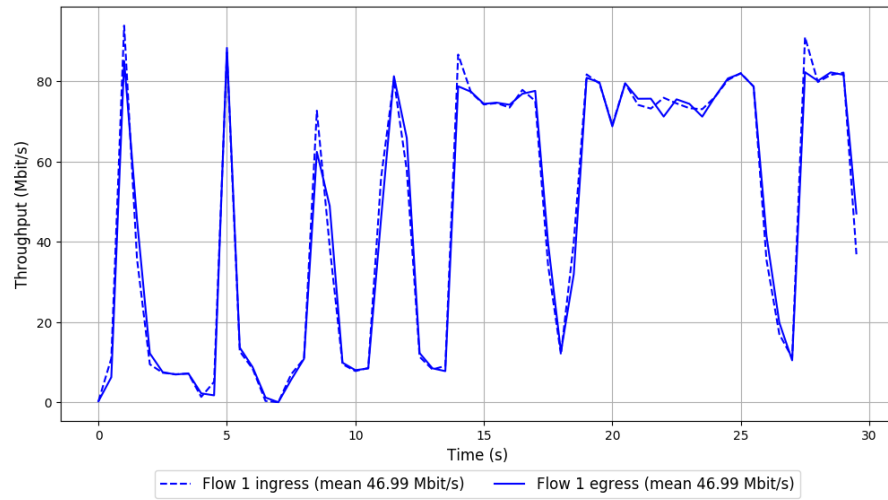
-- Flow 1:

Average throughput: 46.99 Mbit/s

95th percentile per-packet one-way delay: 63.849 ms

Loss rate: 0.01%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-01-09 08:59:01

End at: 2018-01-09 08:59:31

Below is generated by plot.py at 2018-01-09 11:28:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 47.12 Mbit/s

95th percentile per-packet one-way delay: 63.806 ms

Loss rate: 0.01%

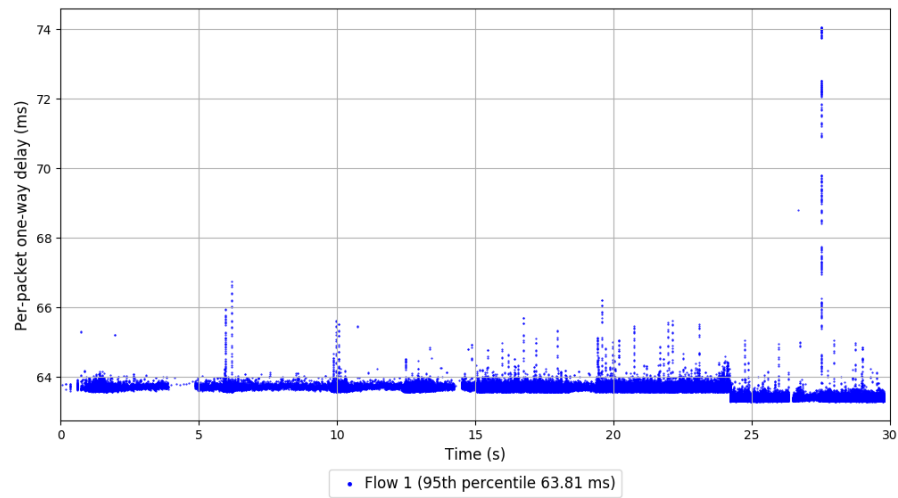
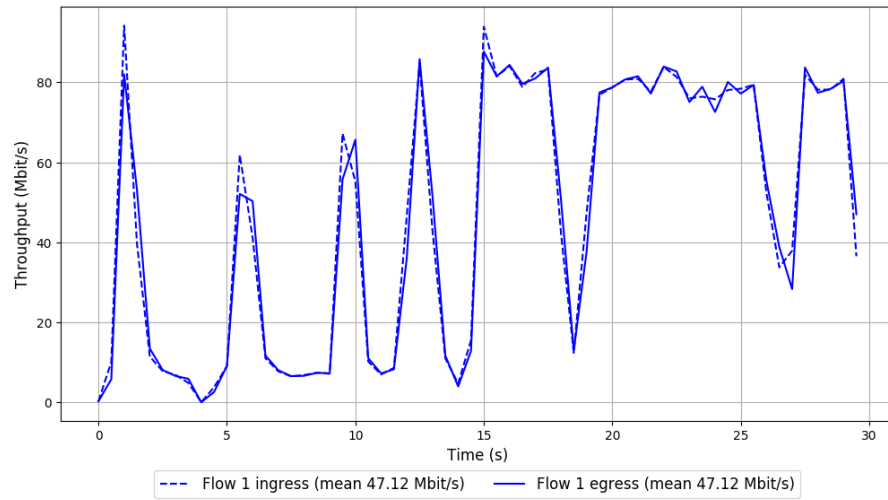
-- Flow 1:

Average throughput: 47.12 Mbit/s

95th percentile per-packet one-way delay: 63.806 ms

Loss rate: 0.01%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-01-09 09:10:25

End at: 2018-01-09 09:10:55

Below is generated by plot.py at 2018-01-09 11:28:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 54.31 Mbit/s

95th percentile per-packet one-way delay: 63.510 ms

Loss rate: 0.00%

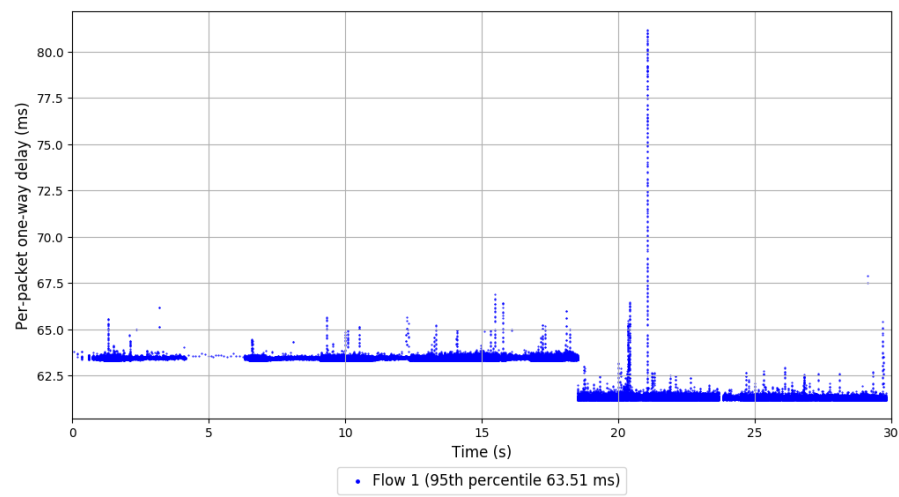
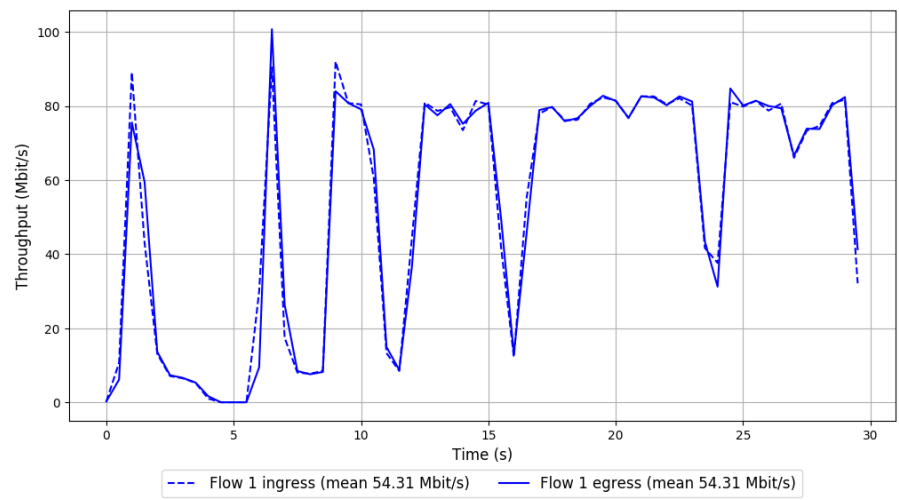
-- Flow 1:

Average throughput: 54.31 Mbit/s

95th percentile per-packet one-way delay: 63.510 ms

Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-01-09 09:22:08

End at: 2018-01-09 09:22:38

Below is generated by plot.py at 2018-01-09 11:28:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 53.55 Mbit/s

95th percentile per-packet one-way delay: 63.629 ms

Loss rate: 0.00%

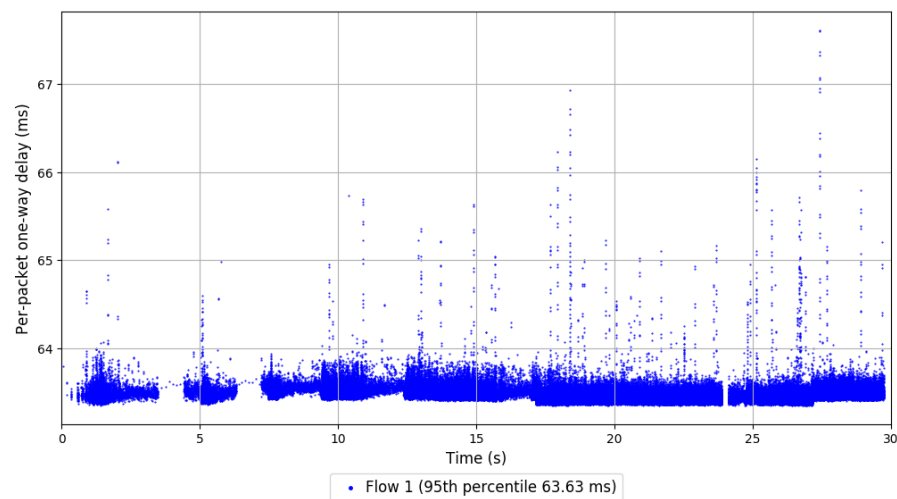
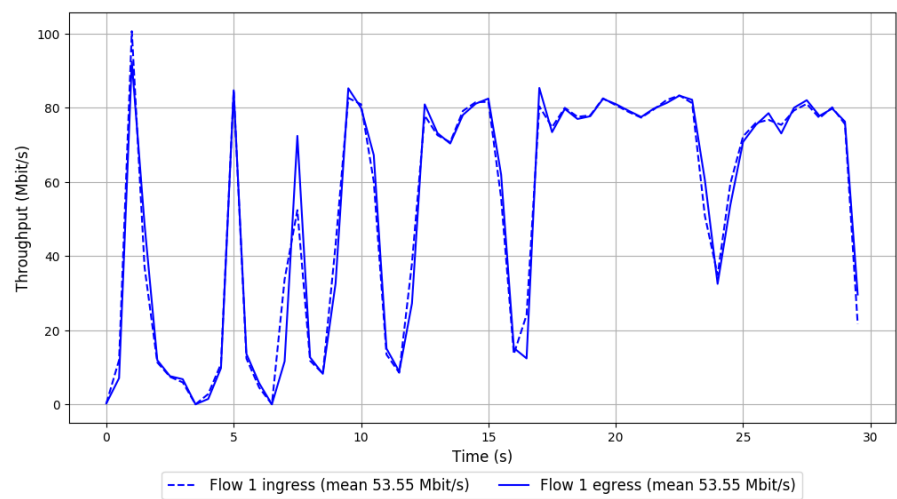
-- Flow 1:

Average throughput: 53.55 Mbit/s

95th percentile per-packet one-way delay: 63.629 ms

Loss rate: 0.00%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-01-09 09:33:59

End at: 2018-01-09 09:34:29

Below is generated by plot.py at 2018-01-09 11:28:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 45.26 Mbit/s

95th percentile per-packet one-way delay: 63.819 ms

Loss rate: 0.31%

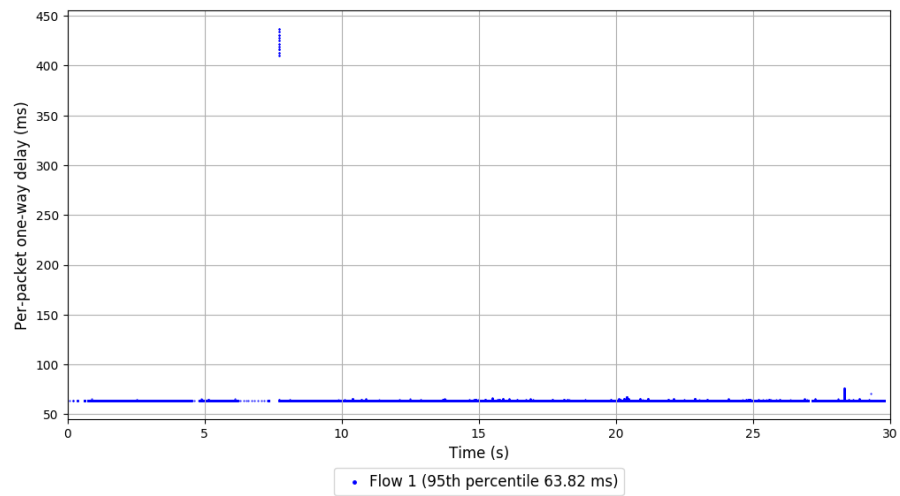
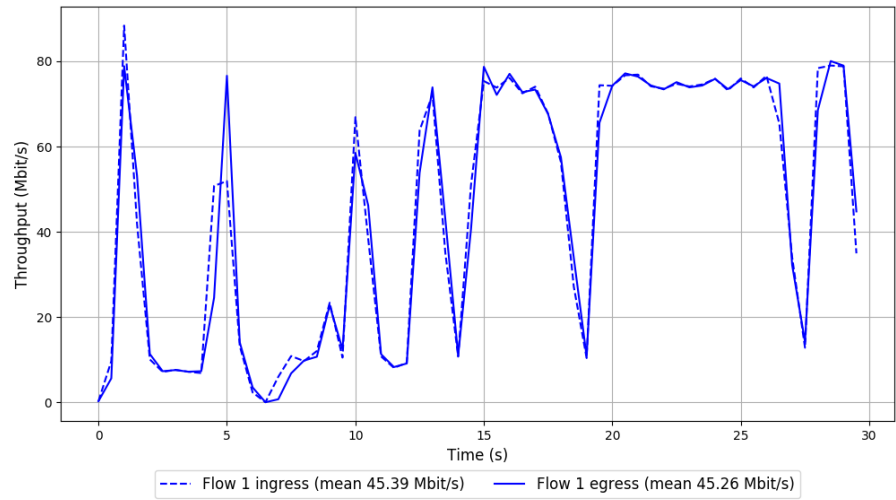
-- Flow 1:

Average throughput: 45.26 Mbit/s

95th percentile per-packet one-way delay: 63.819 ms

Loss rate: 0.31%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-01-09 09:45:44

End at: 2018-01-09 09:46:14

Below is generated by plot.py at 2018-01-09 11:28:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 49.63 Mbit/s

95th percentile per-packet one-way delay: 64.144 ms

Loss rate: 0.00%

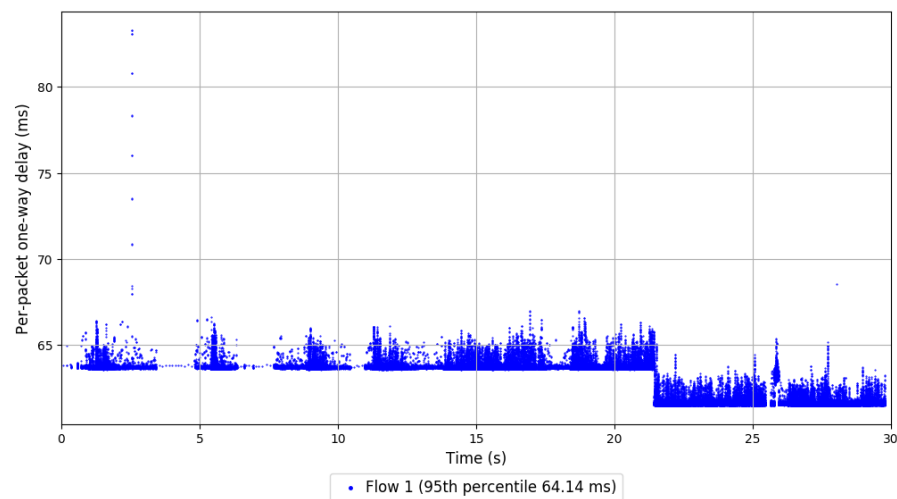
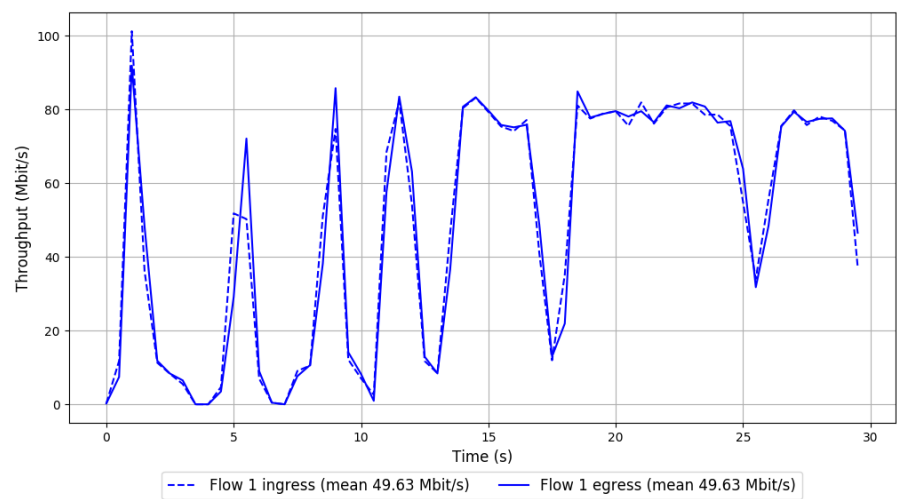
-- Flow 1:

Average throughput: 49.63 Mbit/s

95th percentile per-packet one-way delay: 64.144 ms

Loss rate: 0.00%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-01-09 09:57:06

End at: 2018-01-09 09:57:36

Below is generated by plot.py at 2018-01-09 11:28:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 54.03 Mbit/s

95th percentile per-packet one-way delay: 61.720 ms

Loss rate: 0.00%

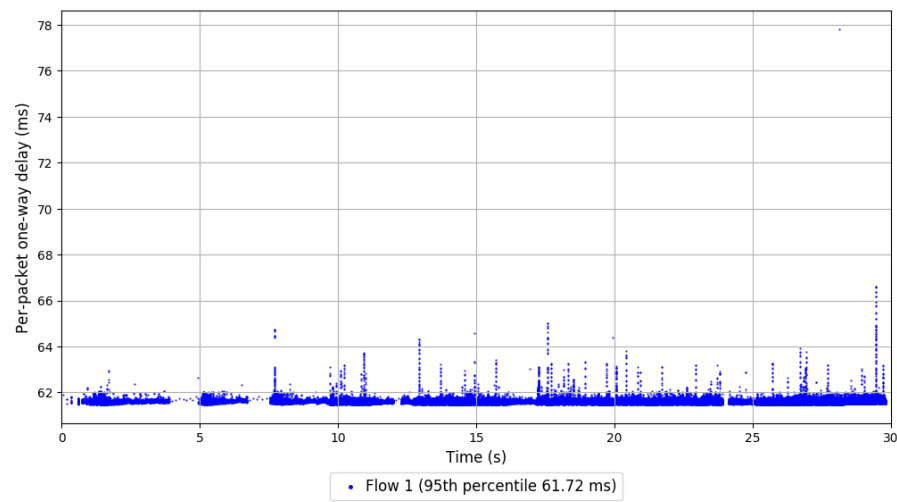
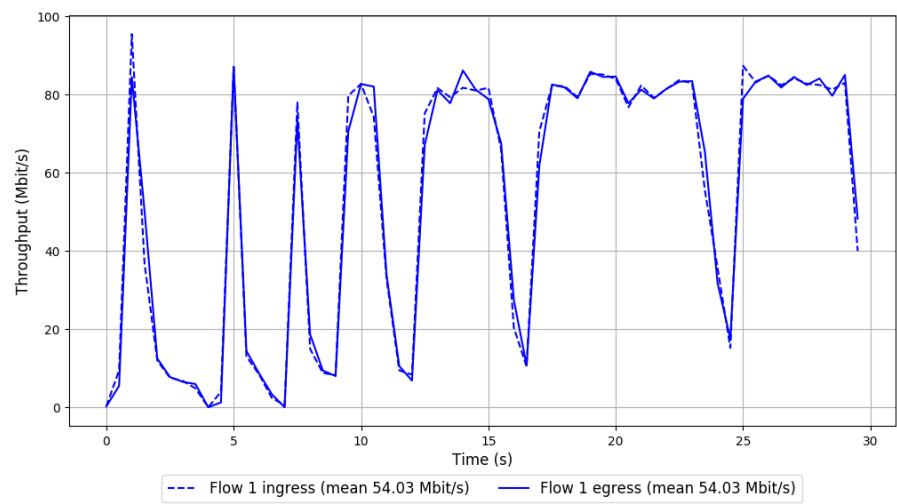
-- Flow 1:

Average throughput: 54.03 Mbit/s

95th percentile per-packet one-way delay: 61.720 ms

Loss rate: 0.00%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-01-09 10:08:38

End at: 2018-01-09 10:09:09

Below is generated by plot.py at 2018-01-09 11:28:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 46.29 Mbit/s

95th percentile per-packet one-way delay: 63.878 ms

Loss rate: 0.00%

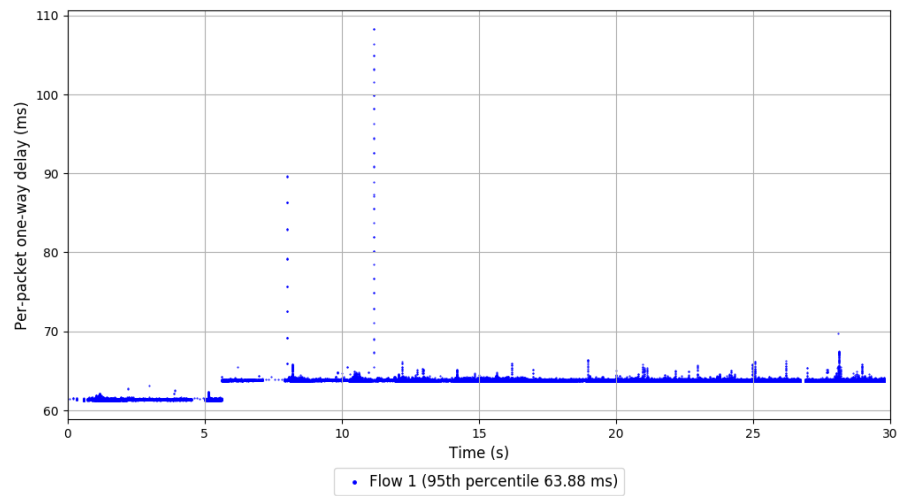
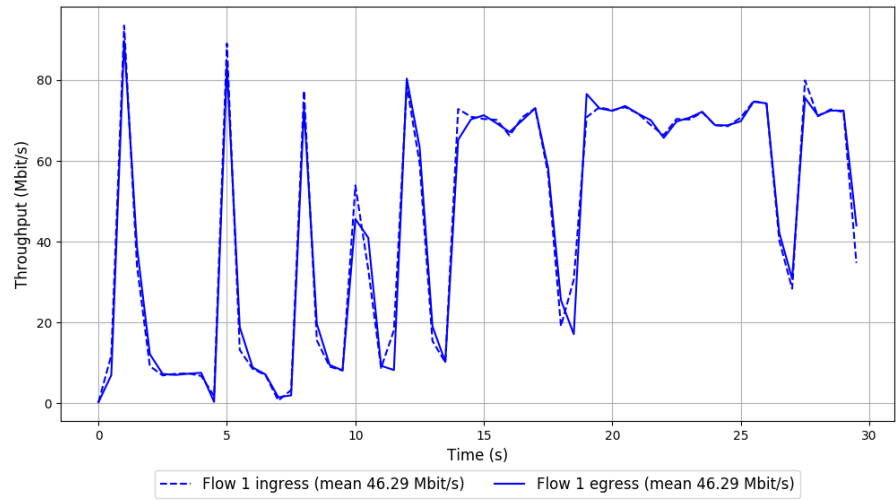
-- Flow 1:

Average throughput: 46.29 Mbit/s

95th percentile per-packet one-way delay: 63.878 ms

Loss rate: 0.00%

Run 9: Report of QUIC Cubic — Data Link

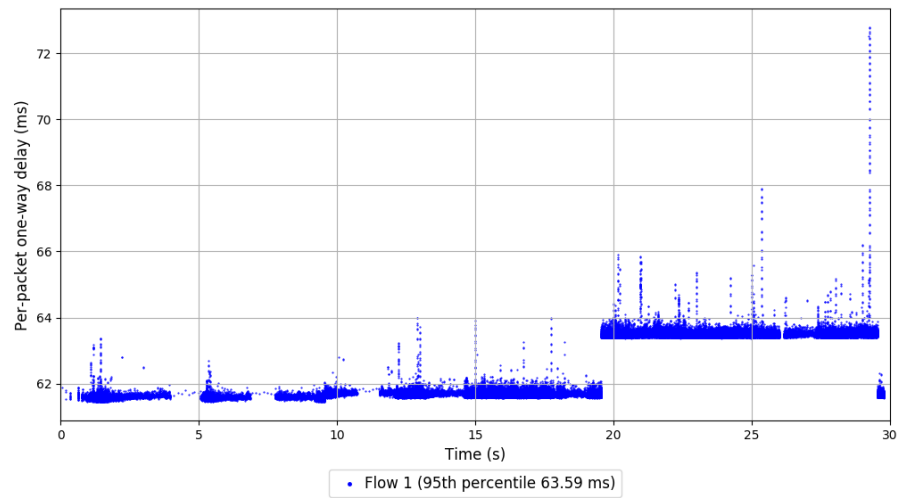
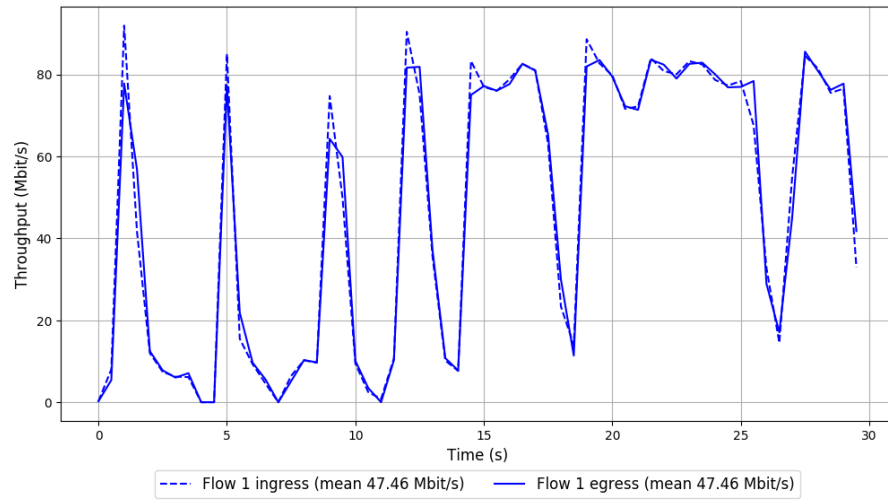


```
Run 10: Statistics of QUIC Cubic

Start at: 2018-01-09 10:20:14
End at: 2018-01-09 10:20:44

# Below is generated by plot.py at 2018-01-09 11:28:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 47.46 Mbit/s
95th percentile per-packet one-way delay: 63.590 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 47.46 Mbit/s
95th percentile per-packet one-way delay: 63.590 ms
Loss rate: 0.00%
```

Run 10: Report of QUIC Cubic — Data Link

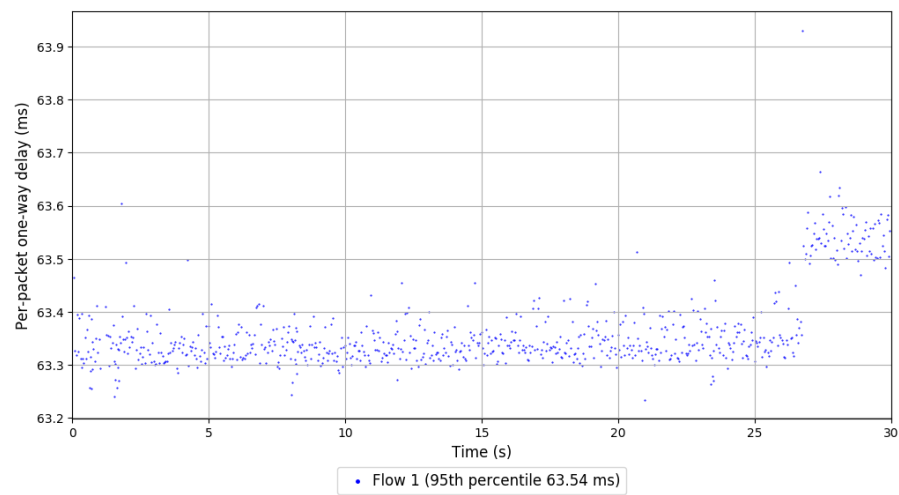
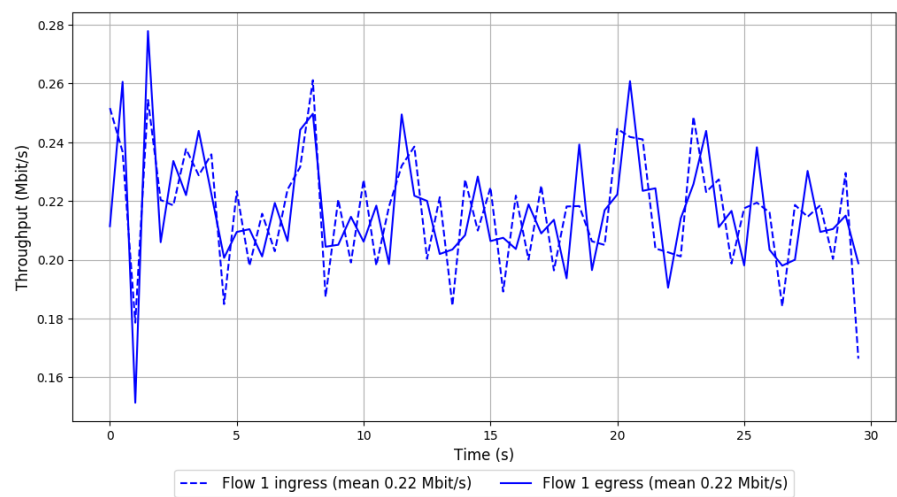


```
Run 1: Statistics of SCReAM

Start at: 2018-01-09 08:31:47
End at: 2018-01-09 08:32:17

# Below is generated by plot.py at 2018-01-09 11:28:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.540 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.540 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

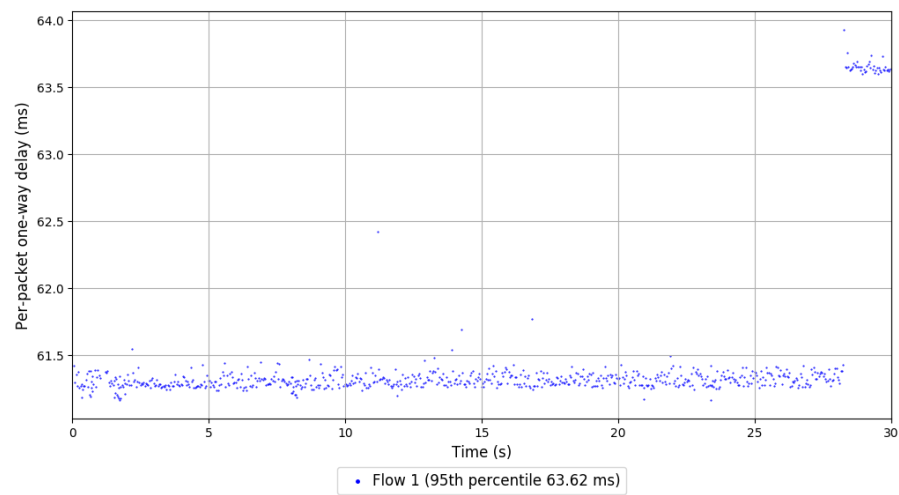
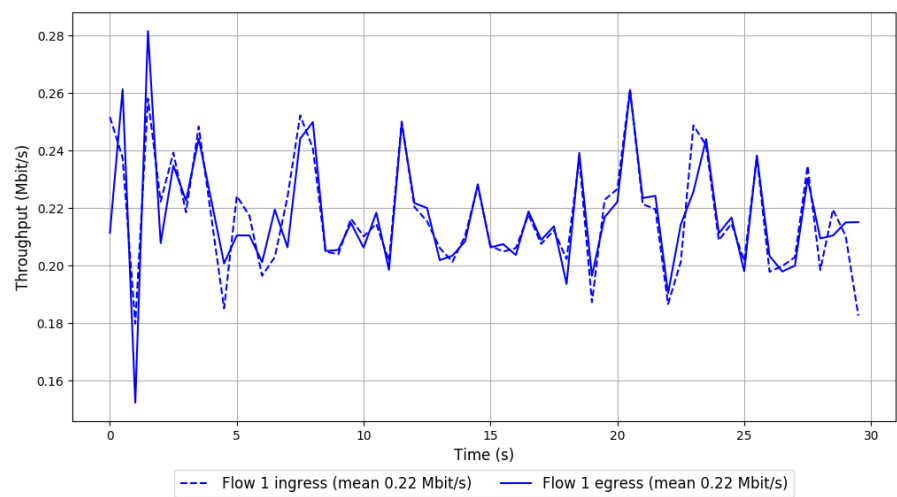


```
Run 2: Statistics of SCReAM

Start at: 2018-01-09 08:43:07
End at: 2018-01-09 08:43:37

# Below is generated by plot.py at 2018-01-09 11:28:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.616 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.616 ms
Loss rate: 0.00%
```

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-01-09 08:54:01

End at: 2018-01-09 08:54:31

Below is generated by plot.py at 2018-01-09 11:28:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 61.896 ms

Loss rate: 0.00%

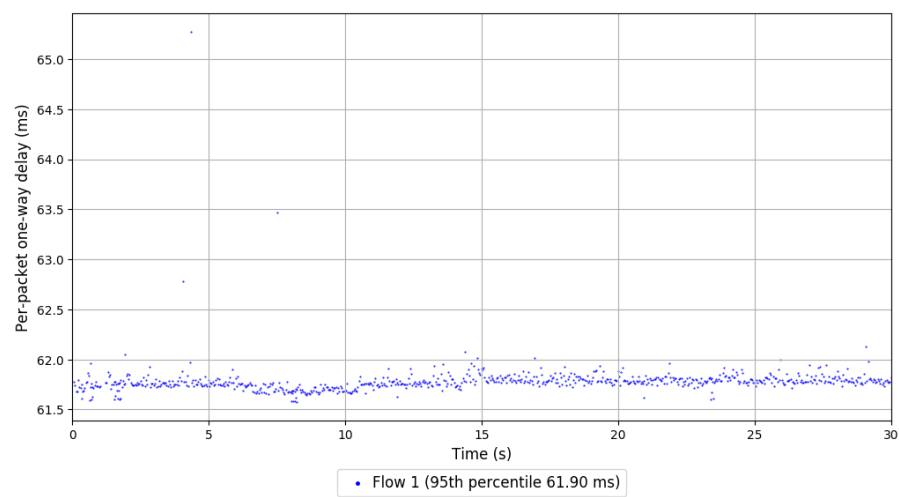
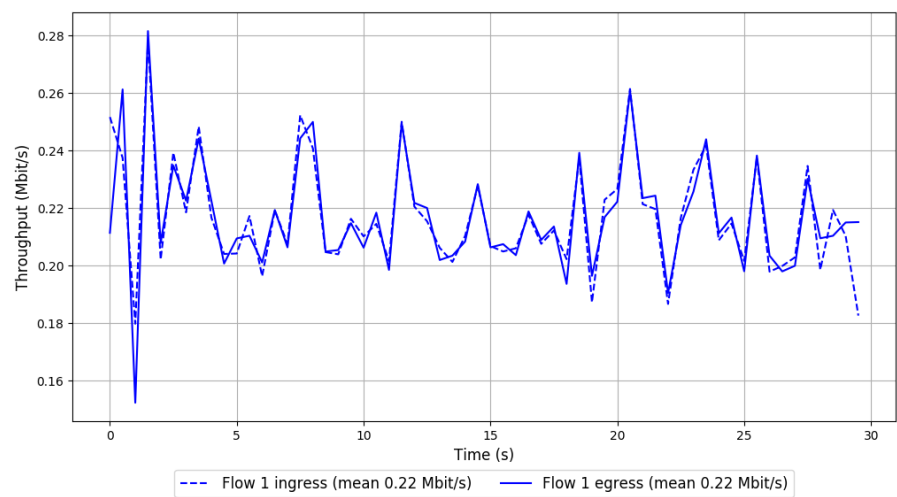
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 61.896 ms

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link

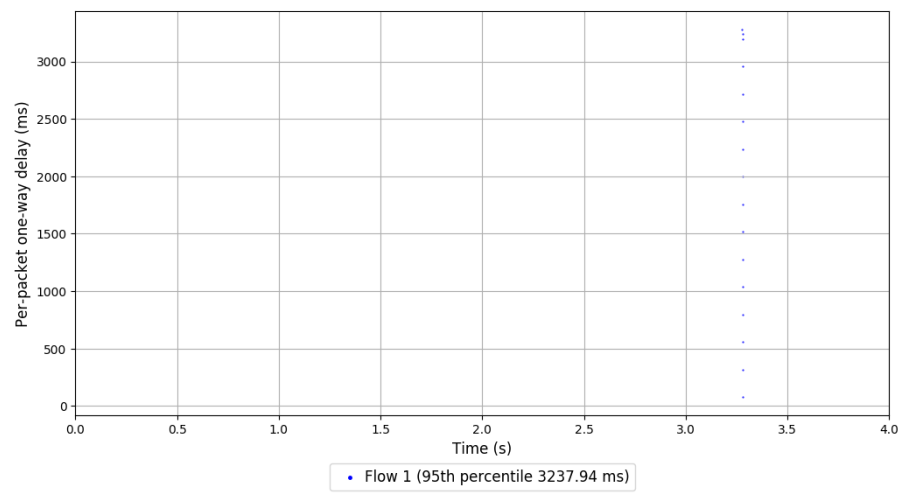
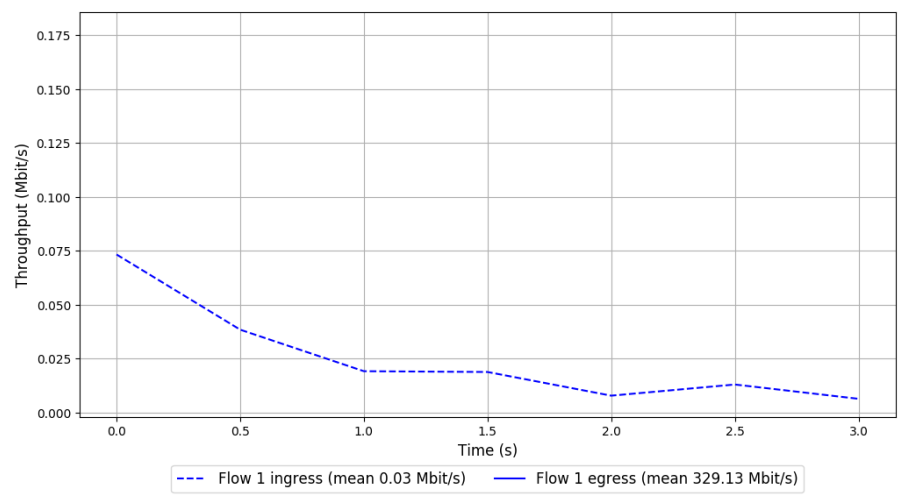


Run 4: Statistics of SReAM

Start at: 2018-01-09 09:05:36

End at: 2018-01-09 09:06:06

Run 4: Report of SReAM — Data Link

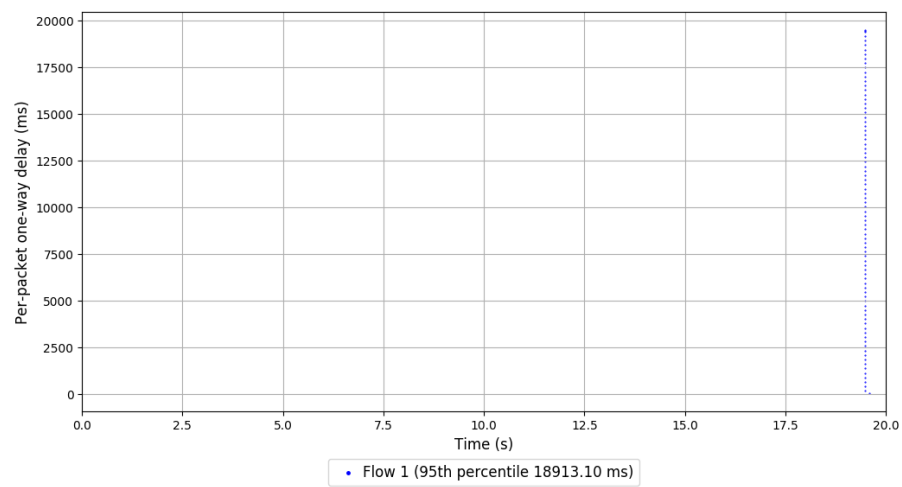
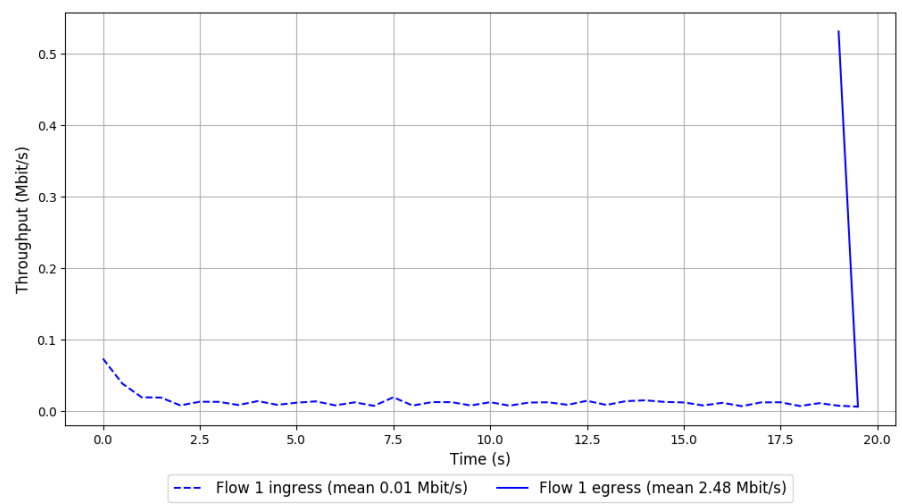


Run 5: Statistics of SReAM

Start at: 2018-01-09 09:17:05

End at: 2018-01-09 09:17:35

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-01-09 09:28:49

End at: 2018-01-09 09:29:19

Below is generated by plot.py at 2018-01-09 11:28:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 64.047 ms

Loss rate: 0.00%

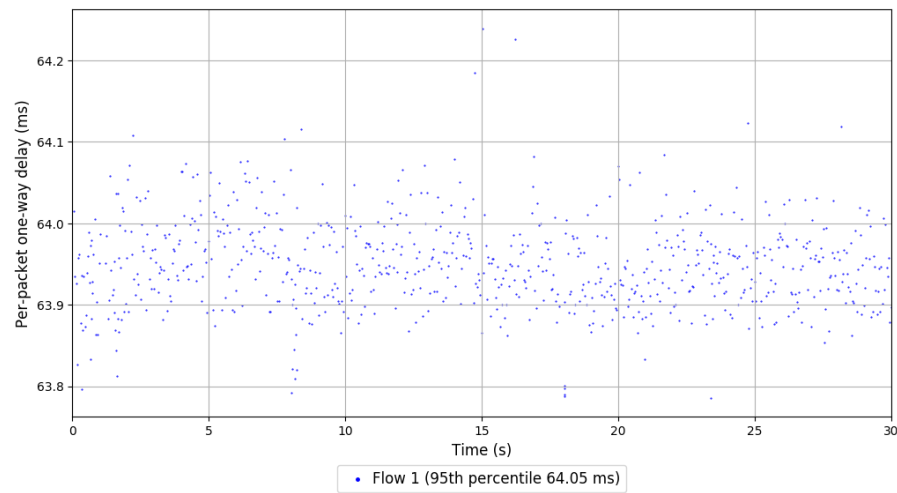
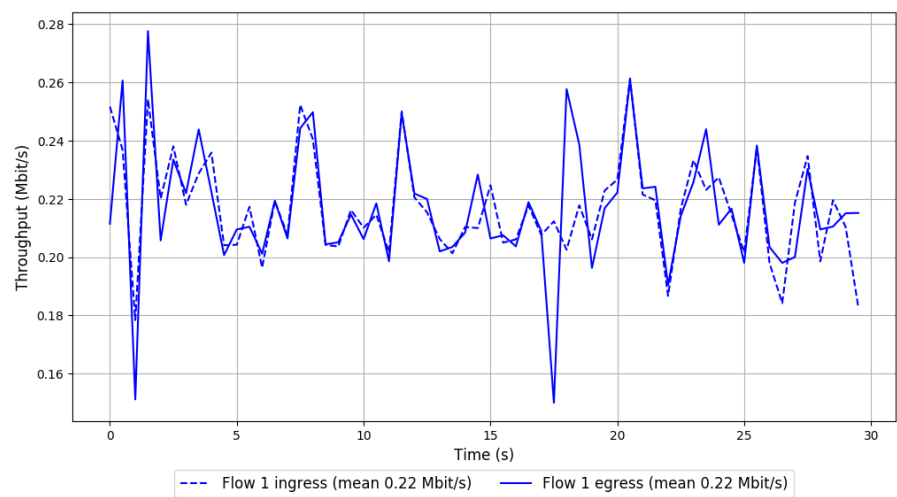
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 64.047 ms

Loss rate: 0.00%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2018-01-09 09:40:38

End at: 2018-01-09 09:41:08

Below is generated by plot.py at 2018-01-09 11:28:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.885 ms

Loss rate: 0.00%

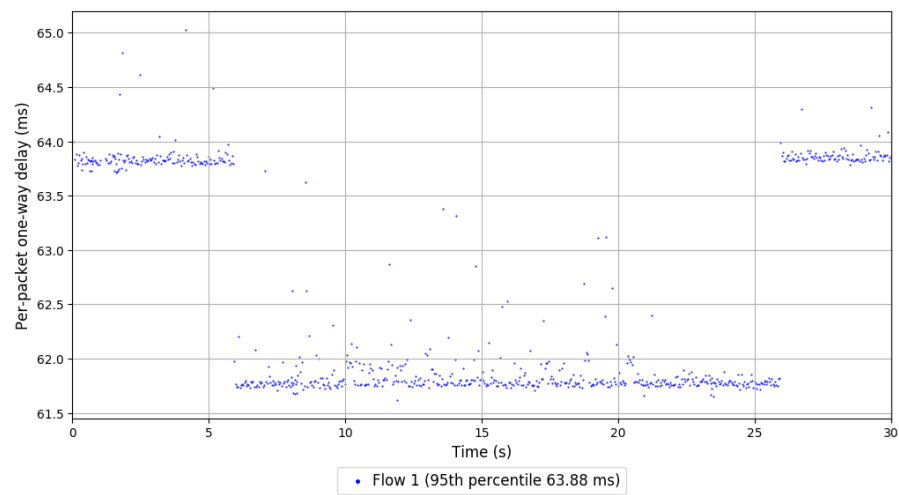
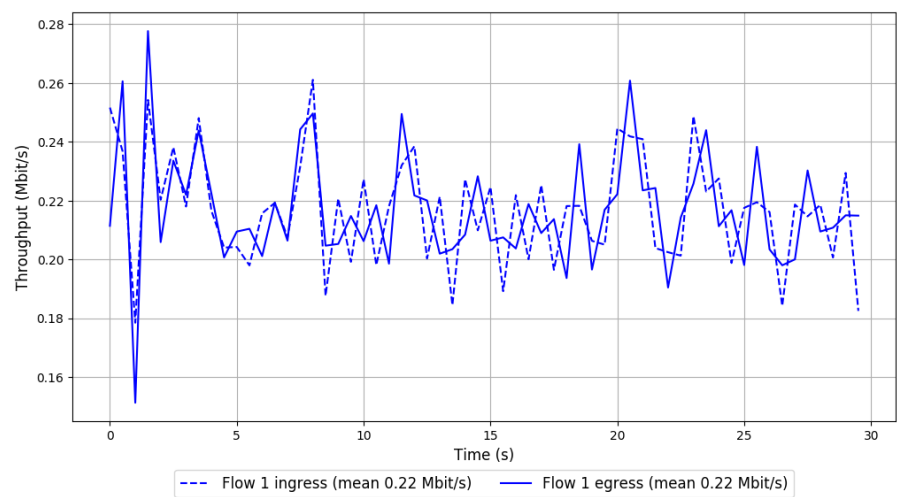
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.885 ms

Loss rate: 0.00%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-01-09 09:52:21

End at: 2018-01-09 09:52:51

Below is generated by plot.py at 2018-01-09 11:28:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.743 ms

Loss rate: 0.00%

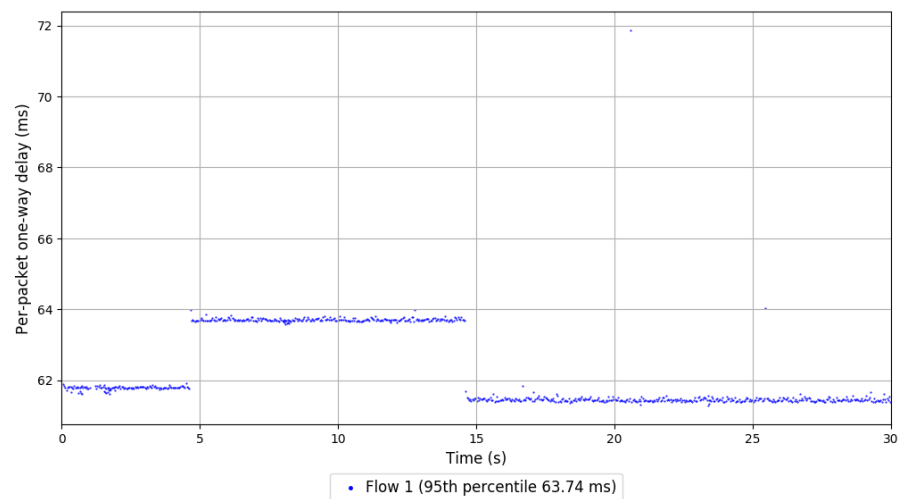
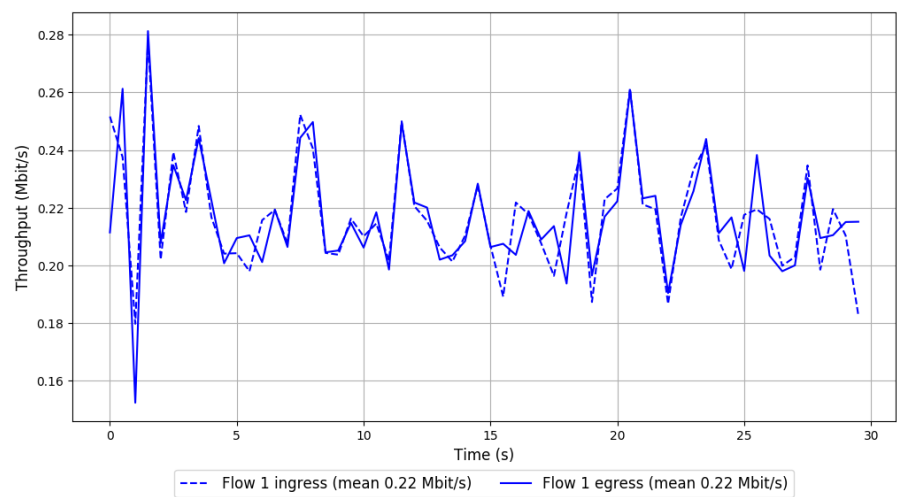
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.743 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link

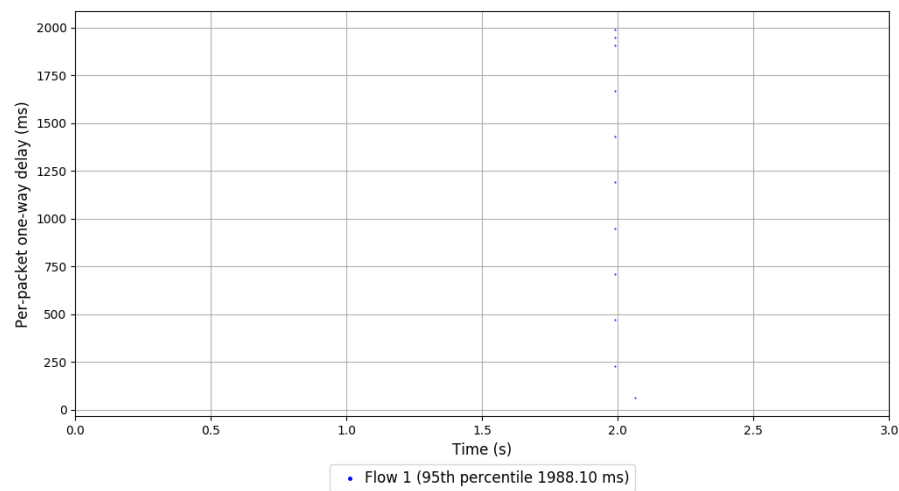
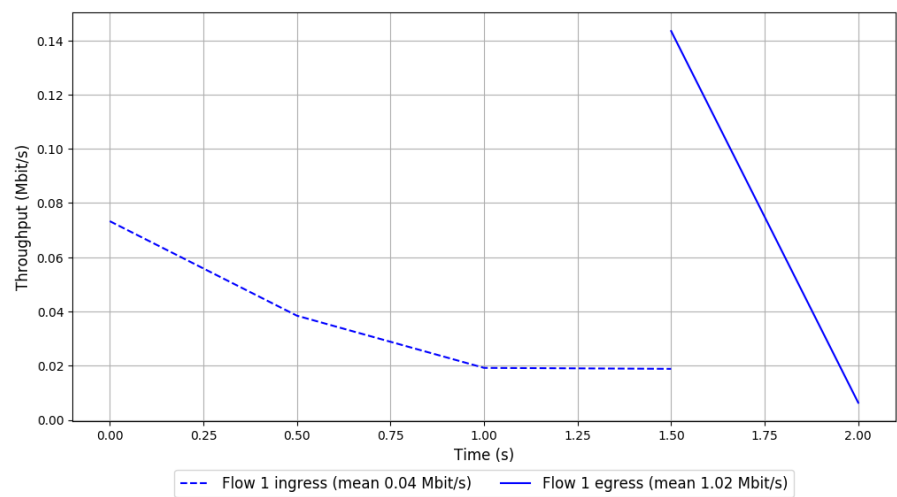


Run 9: Statistics of SReAM

Start at: 2018-01-09 10:03:45

End at: 2018-01-09 10:04:15

Run 9: Report of SReAM — Data Link

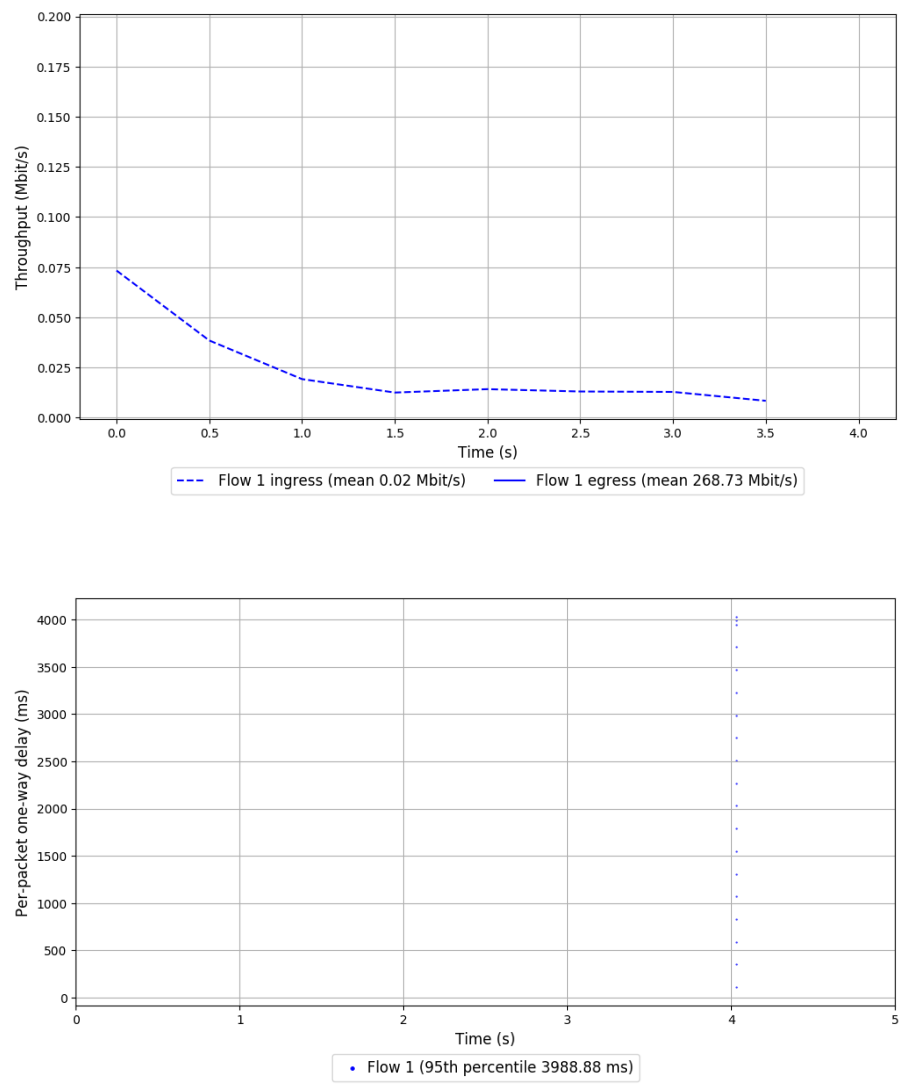


Run 10: Statistics of SCReAM

Start at: 2018-01-09 10:15:13

End at: 2018-01-09 10:15:43

Run 10: Report of SCReAM — Data Link

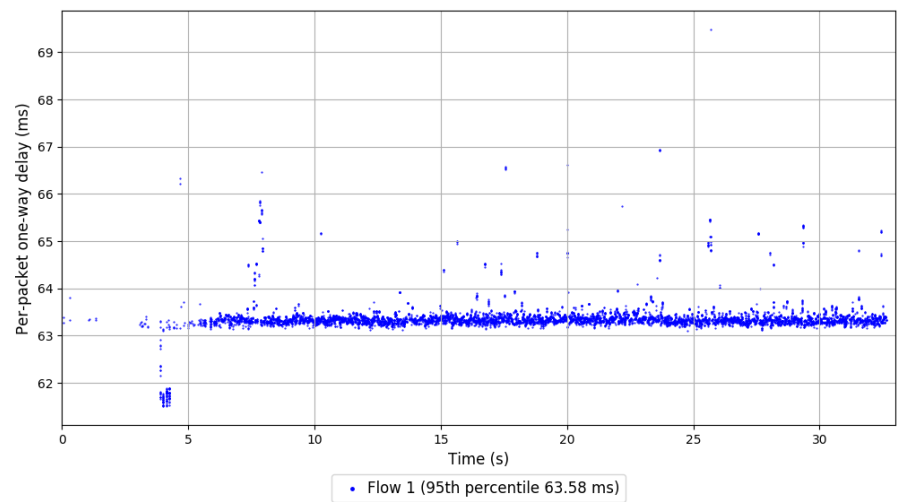
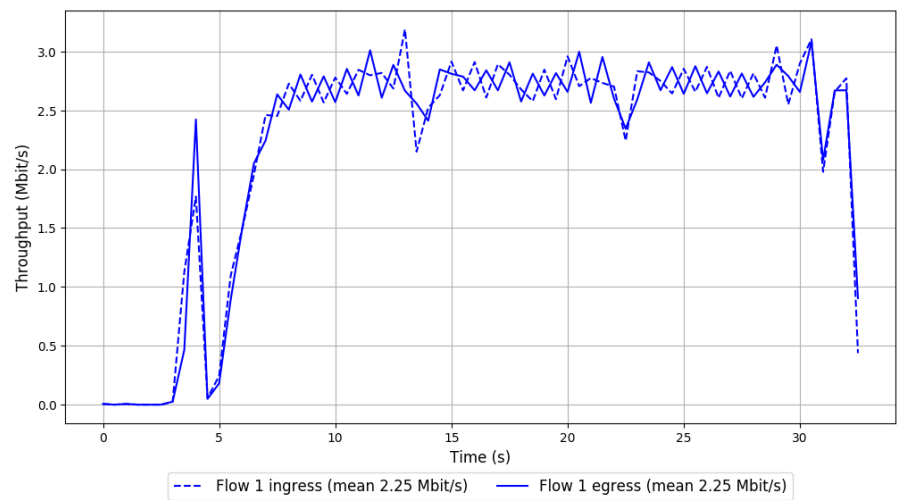


```
Run 1: Statistics of WebRTC media

Start at: 2018-01-09 08:37:54
End at: 2018-01-09 08:38:24

# Below is generated by plot.py at 2018-01-09 11:28:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.25 Mbit/s
95th percentile per-packet one-way delay: 63.582 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.25 Mbit/s
95th percentile per-packet one-way delay: 63.582 ms
Loss rate: 0.00%
```


Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-01-09 08:48:44

End at: 2018-01-09 08:49:14

Below is generated by plot.py at 2018-01-09 11:28:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.25 Mbit/s

95th percentile per-packet one-way delay: 63.918 ms

Loss rate: 0.00%

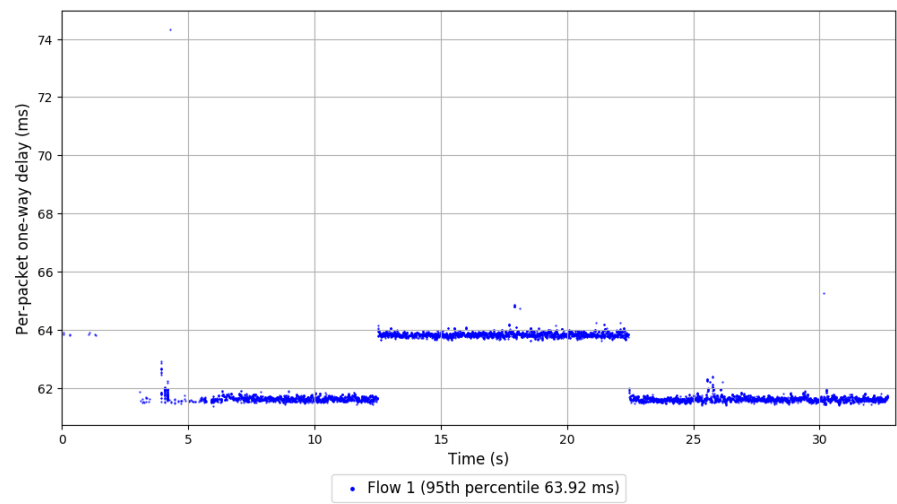
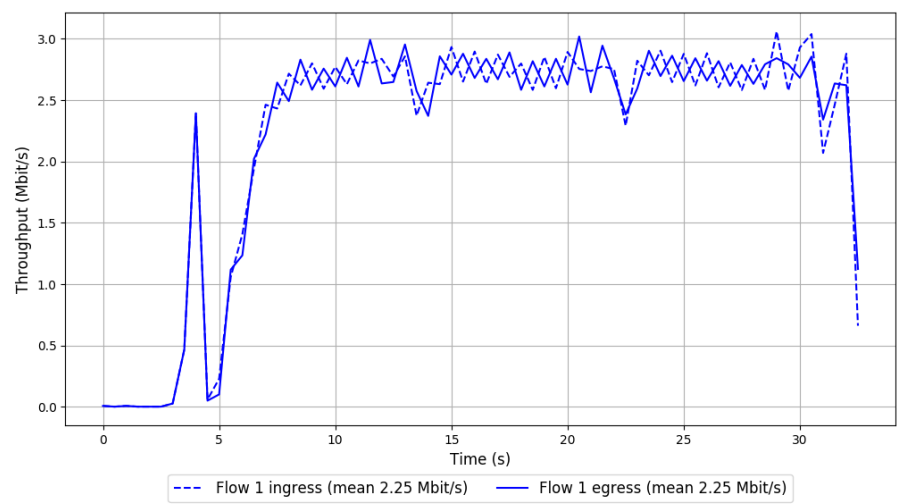
-- Flow 1:

Average throughput: 2.25 Mbit/s

95th percentile per-packet one-way delay: 63.918 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-01-09 09:00:24

End at: 2018-01-09 09:00:54

Below is generated by plot.py at 2018-01-09 11:28:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 63.948 ms

Loss rate: 0.00%

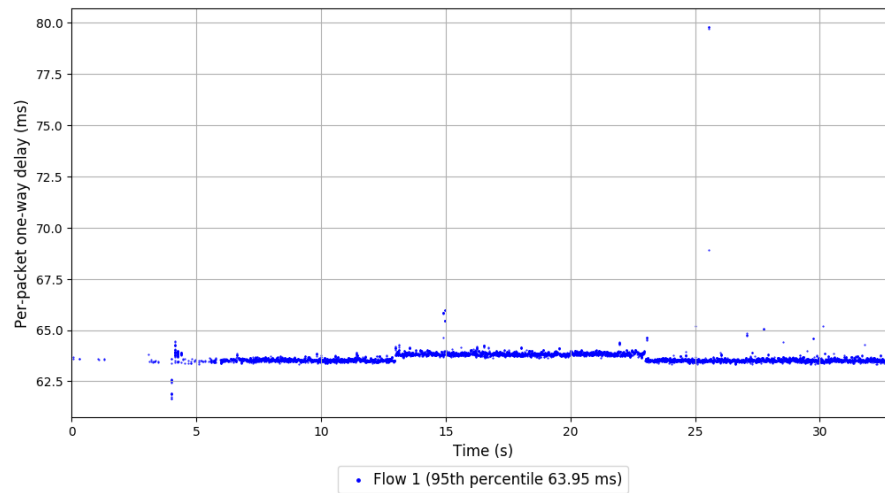
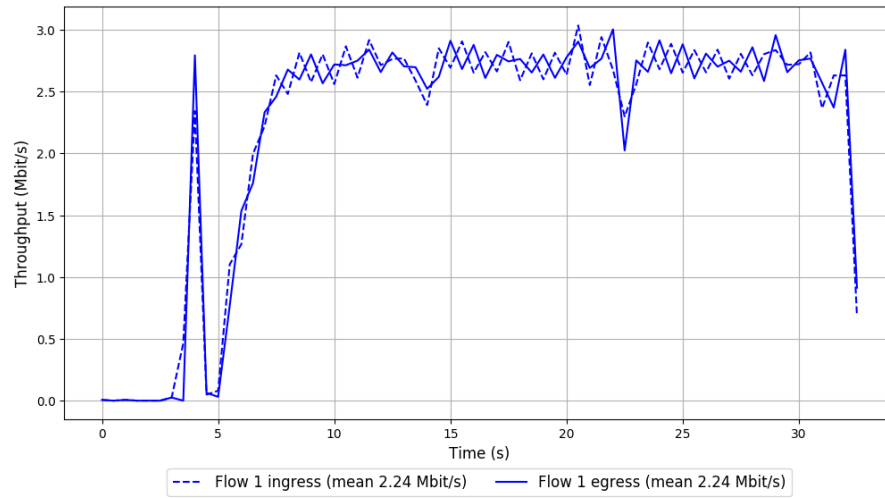
-- Flow 1:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 63.948 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-01-09 09:11:47

End at: 2018-01-09 09:12:17

Below is generated by plot.py at 2018-01-09 11:28:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 63.707 ms

Loss rate: 0.00%

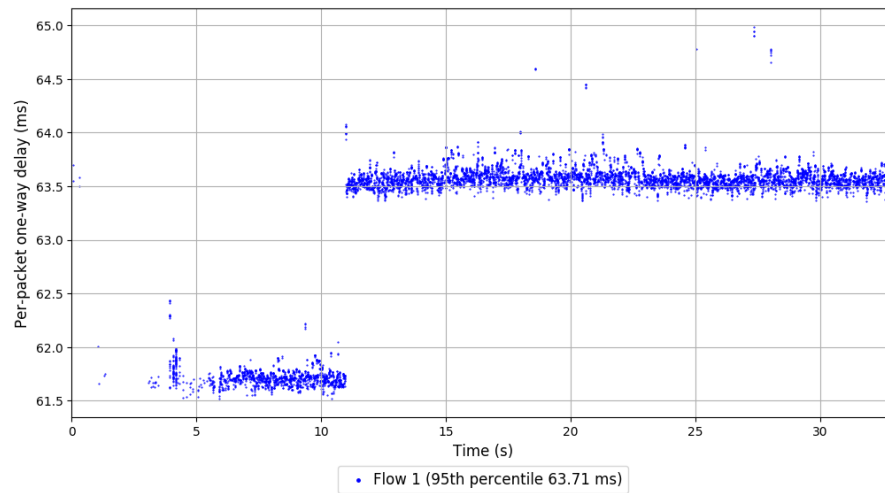
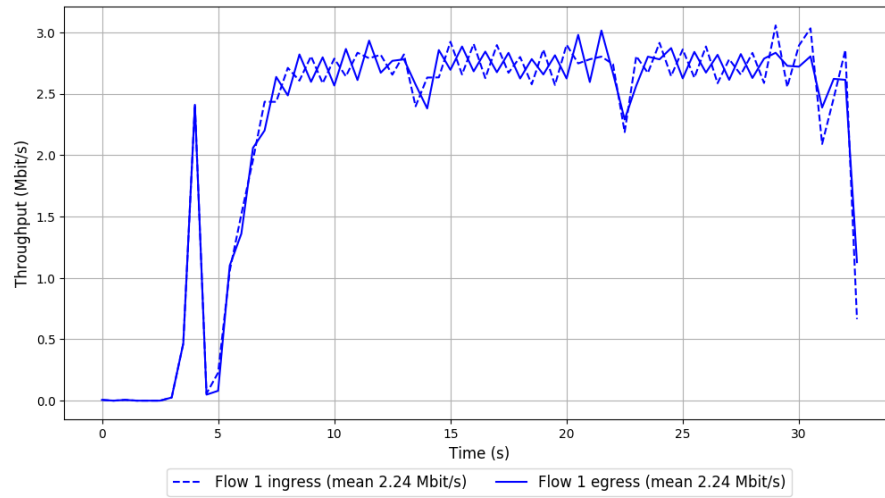
-- Flow 1:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 63.707 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-01-09 09:23:32

End at: 2018-01-09 09:24:02

Below is generated by plot.py at 2018-01-09 11:28:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.23 Mbit/s

95th percentile per-packet one-way delay: 61.554 ms

Loss rate: 0.00%

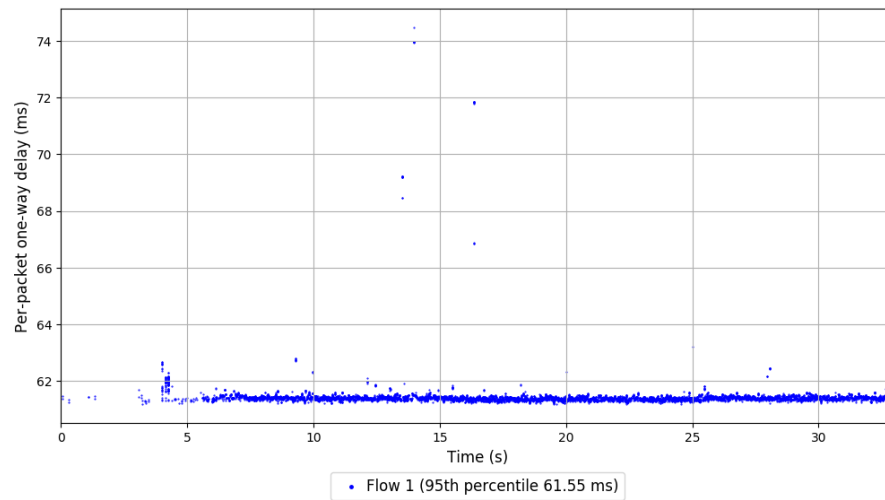
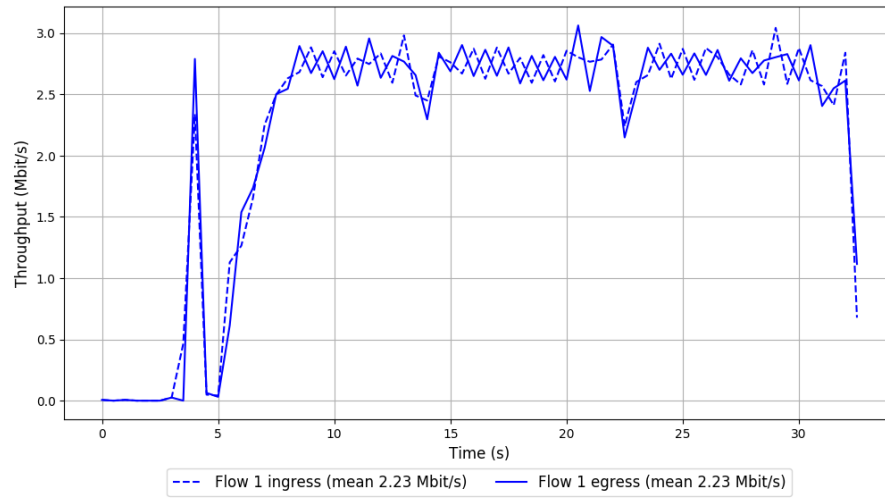
-- Flow 1:

Average throughput: 2.23 Mbit/s

95th percentile per-packet one-way delay: 61.554 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-01-09 09:35:23

End at: 2018-01-09 09:35:53

Below is generated by plot.py at 2018-01-09 11:28:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 63.695 ms

Loss rate: 0.00%

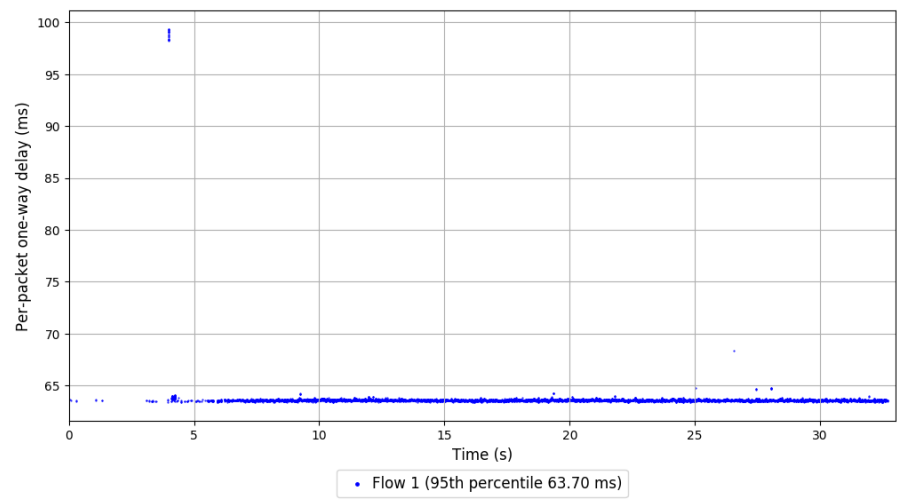
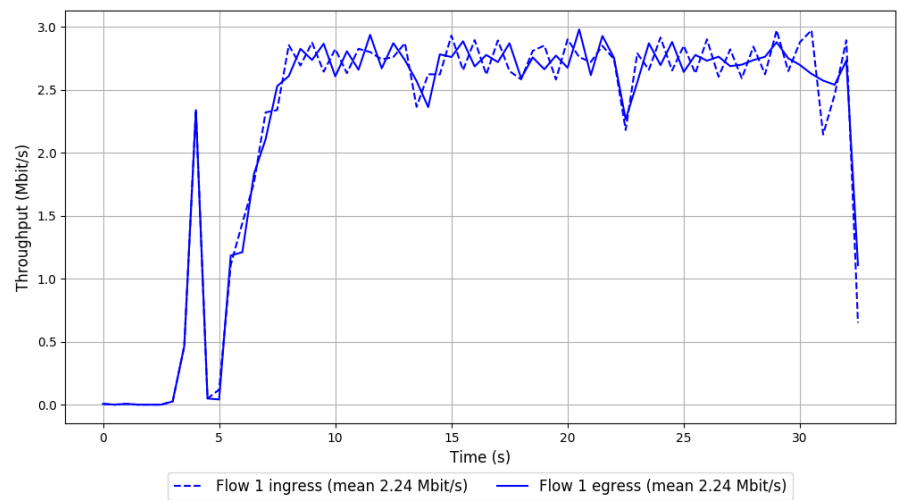
-- Flow 1:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 63.695 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-01-09 09:47:06

End at: 2018-01-09 09:47:36

Below is generated by plot.py at 2018-01-09 11:28:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 63.675 ms

Loss rate: 0.00%

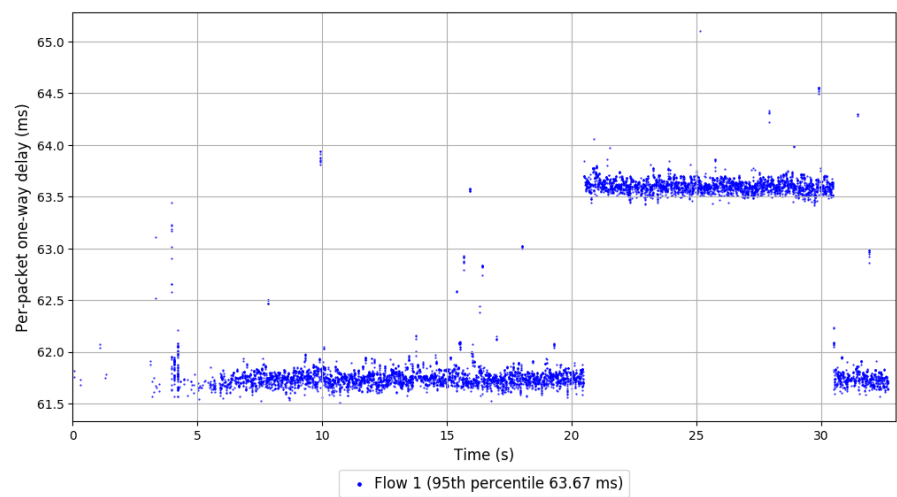
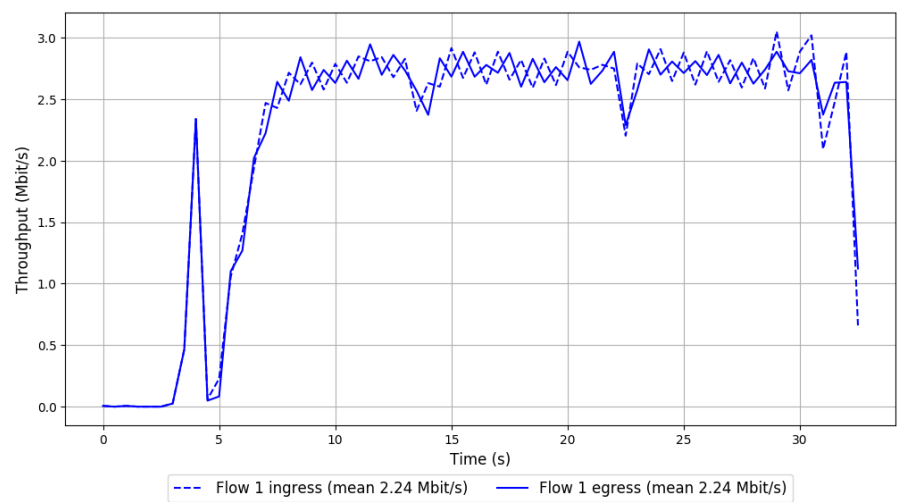
-- Flow 1:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 63.675 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-01-09 09:58:30

End at: 2018-01-09 09:59:00

Below is generated by plot.py at 2018-01-09 11:28:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 63.876 ms

Loss rate: 0.00%

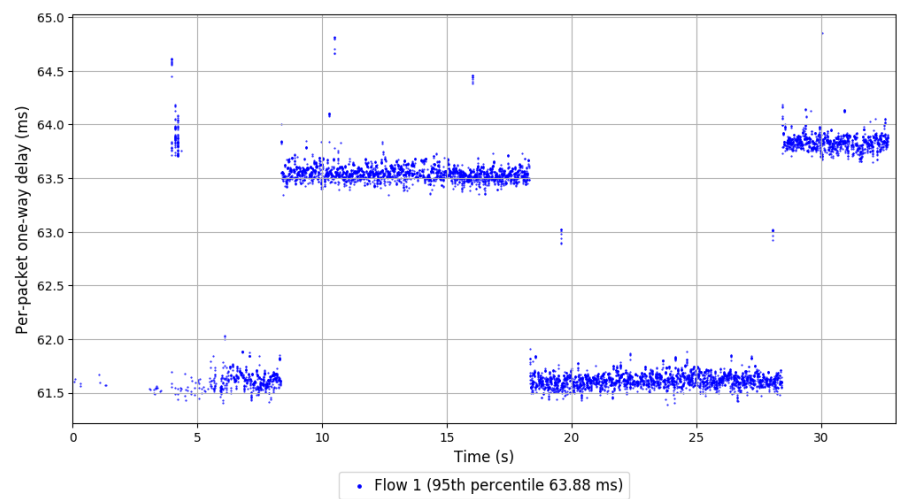
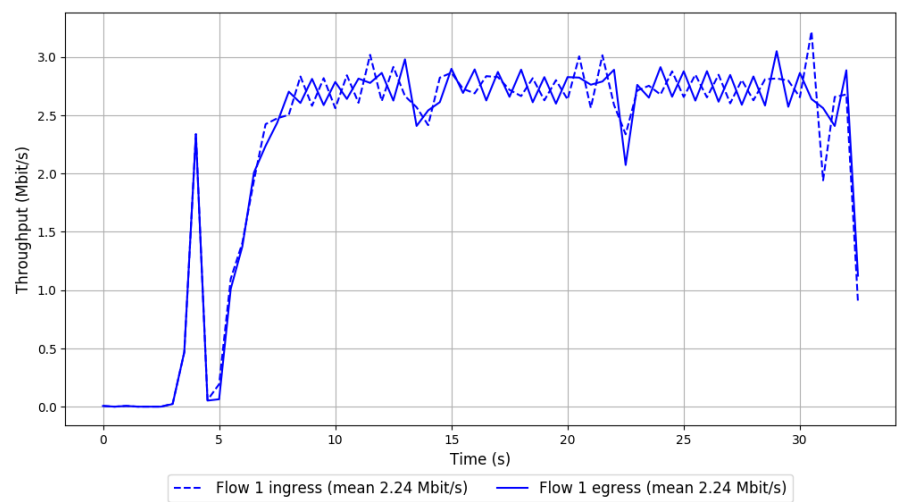
-- Flow 1:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 63.876 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-01-09 10:10:02

End at: 2018-01-09 10:10:32

Below is generated by plot.py at 2018-01-09 11:28:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 63.953 ms

Loss rate: 0.00%

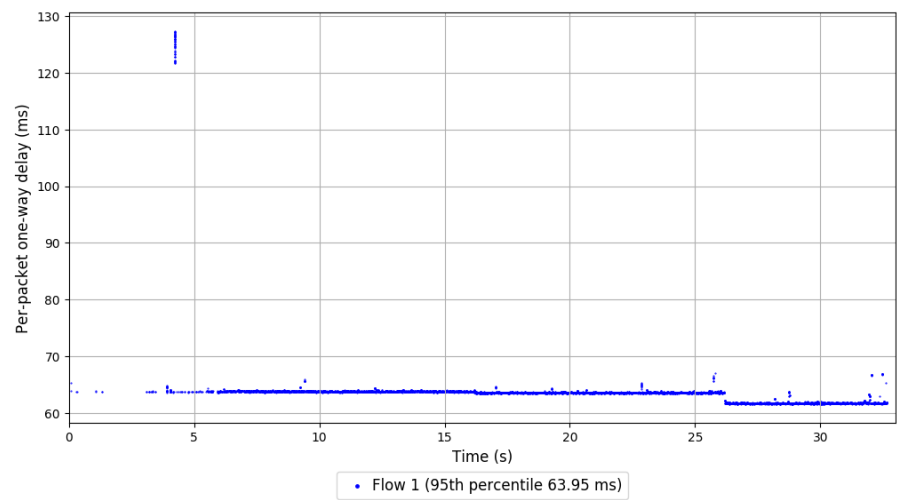
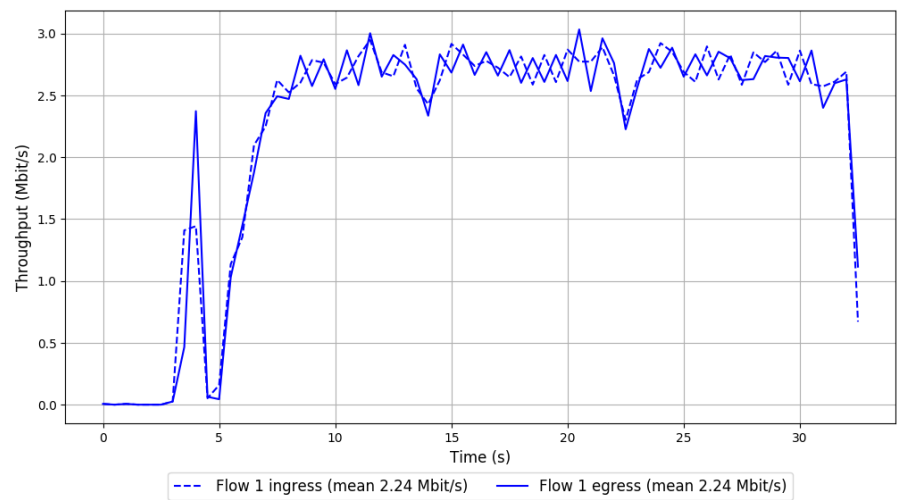
-- Flow 1:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 63.953 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-01-09 10:21:38

End at: 2018-01-09 10:22:08

Below is generated by plot.py at 2018-01-09 11:28:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 63.936 ms

Loss rate: 0.00%

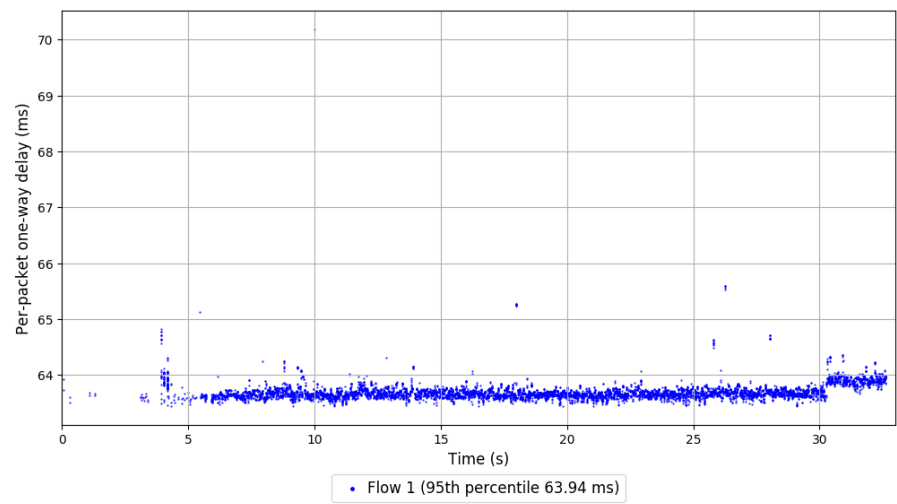
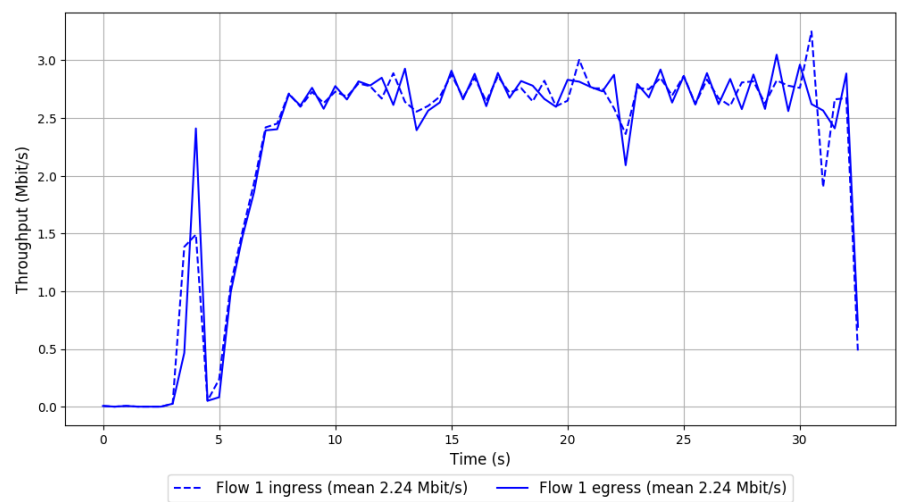
-- Flow 1:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 63.936 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2018-01-09 08:38:32

End at: 2018-01-09 08:39:02

Below is generated by plot.py at 2018-01-09 11:28:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.52 Mbit/s

95th percentile per-packet one-way delay: 64.556 ms

Loss rate: 0.54%

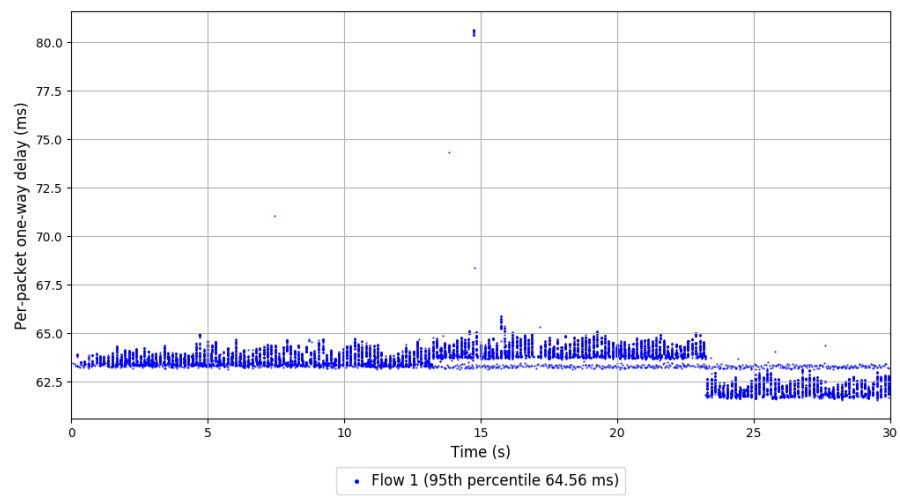
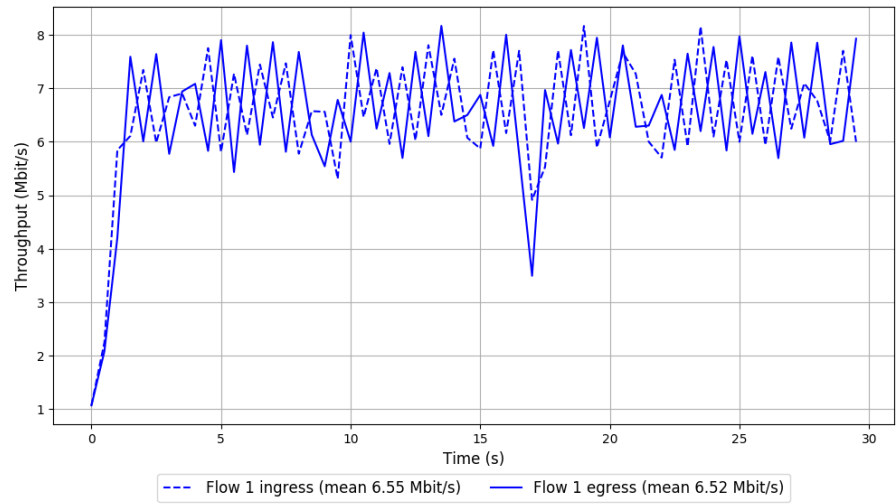
-- Flow 1:

Average throughput: 6.52 Mbit/s

95th percentile per-packet one-way delay: 64.556 ms

Loss rate: 0.54%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-01-09 08:49:22

End at: 2018-01-09 08:49:52

Below is generated by plot.py at 2018-01-09 11:28:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.63 Mbit/s

95th percentile per-packet one-way delay: 64.956 ms

Loss rate: 0.00%

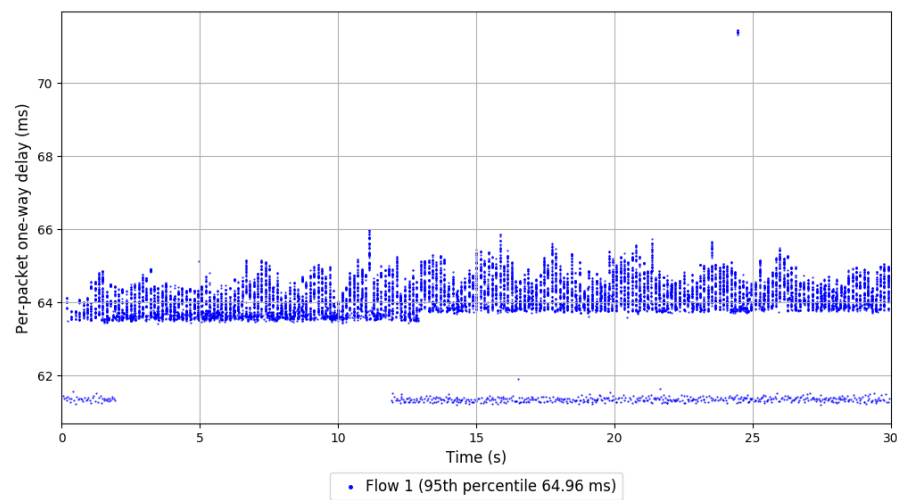
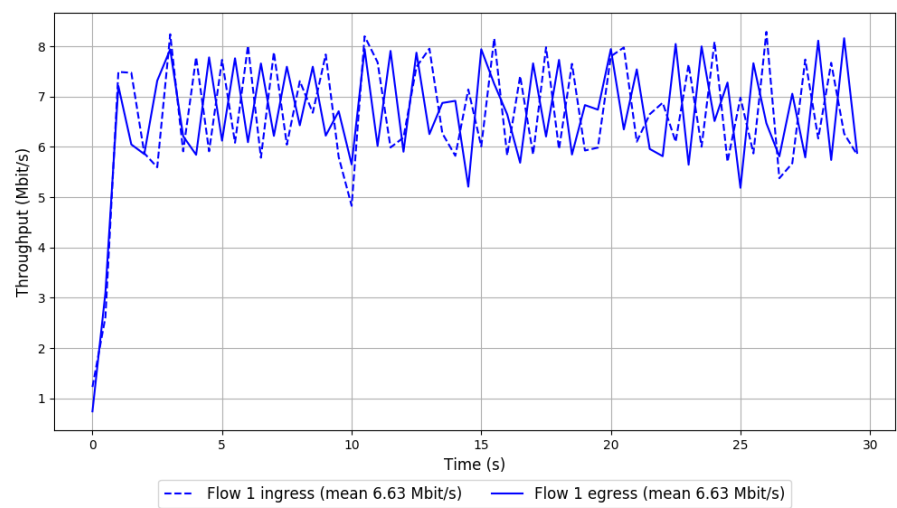
-- Flow 1:

Average throughput: 6.63 Mbit/s

95th percentile per-packet one-way delay: 64.956 ms

Loss rate: 0.00%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-01-09 09:01:02

End at: 2018-01-09 09:01:32

Below is generated by plot.py at 2018-01-09 11:28:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.54 Mbit/s

95th percentile per-packet one-way delay: 64.327 ms

Loss rate: 0.42%

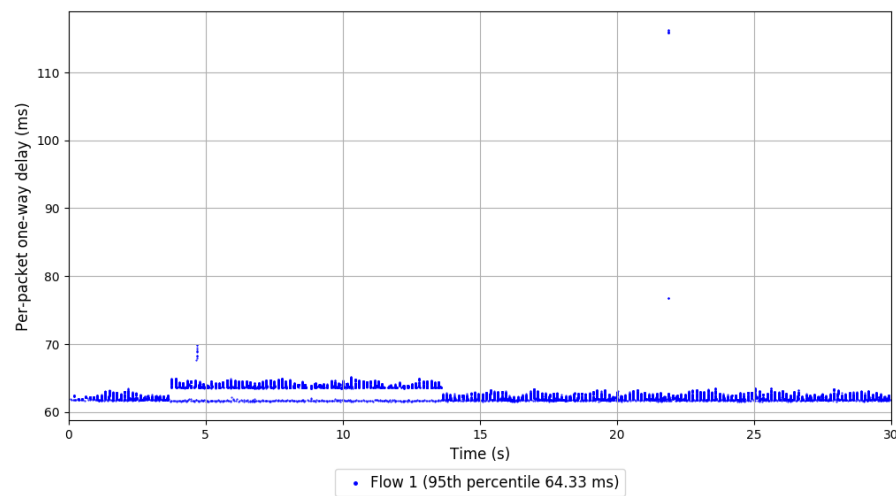
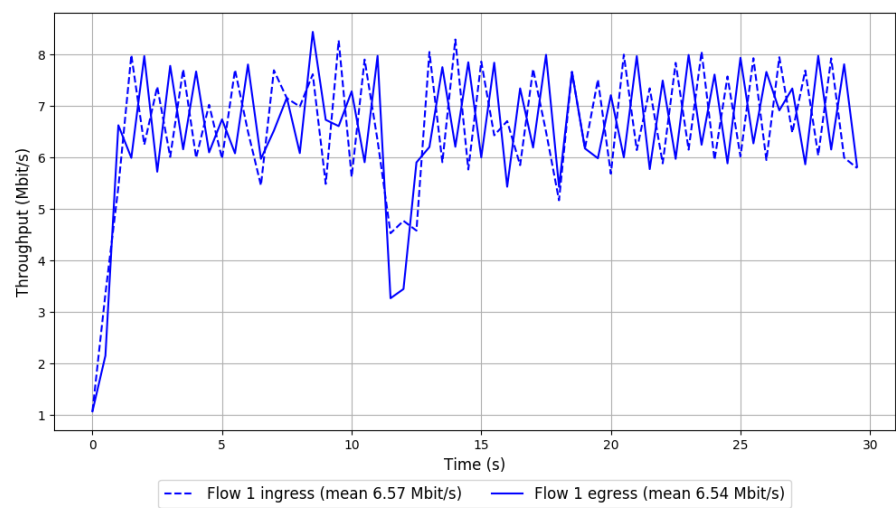
-- Flow 1:

Average throughput: 6.54 Mbit/s

95th percentile per-packet one-way delay: 64.327 ms

Loss rate: 0.42%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-01-09 09:12:25

End at: 2018-01-09 09:12:55

Below is generated by plot.py at 2018-01-09 11:28:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.63 Mbit/s

95th percentile per-packet one-way delay: 64.532 ms

Loss rate: 0.13%

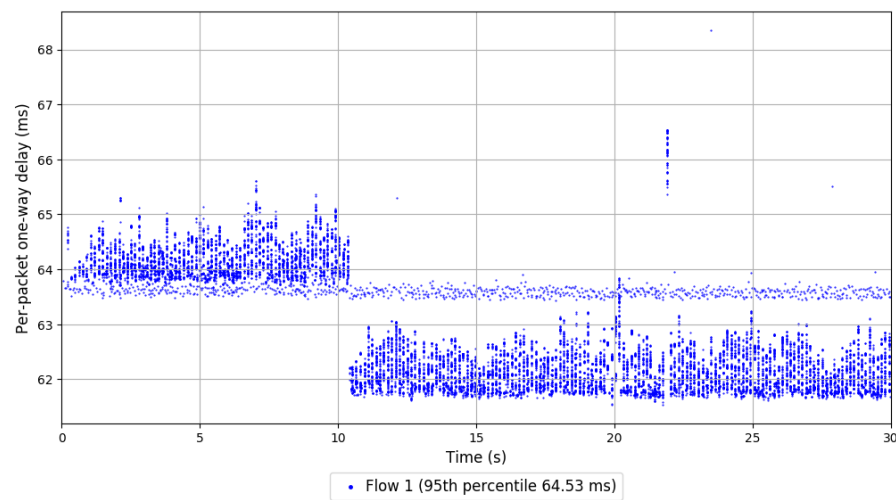
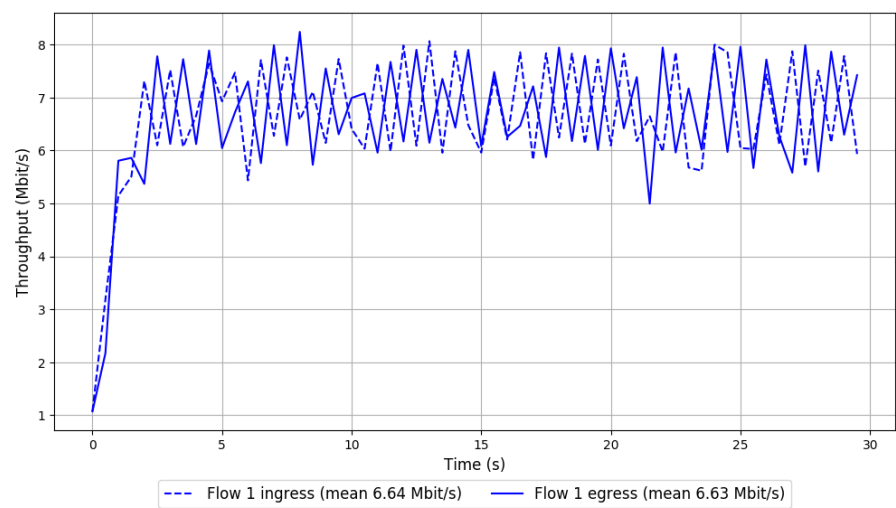
-- Flow 1:

Average throughput: 6.63 Mbit/s

95th percentile per-packet one-way delay: 64.532 ms

Loss rate: 0.13%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-01-09 09:24:10

End at: 2018-01-09 09:24:40

Below is generated by plot.py at 2018-01-09 11:28:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.47 Mbit/s

95th percentile per-packet one-way delay: 64.544 ms

Loss rate: 0.47%

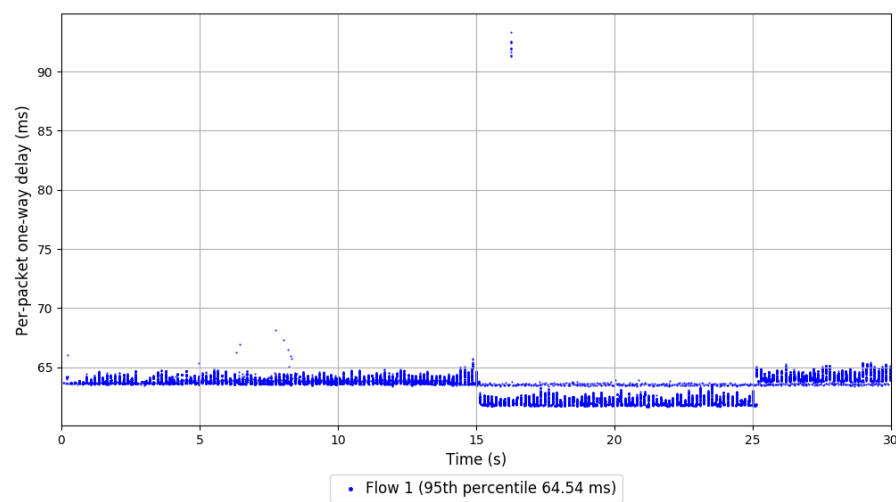
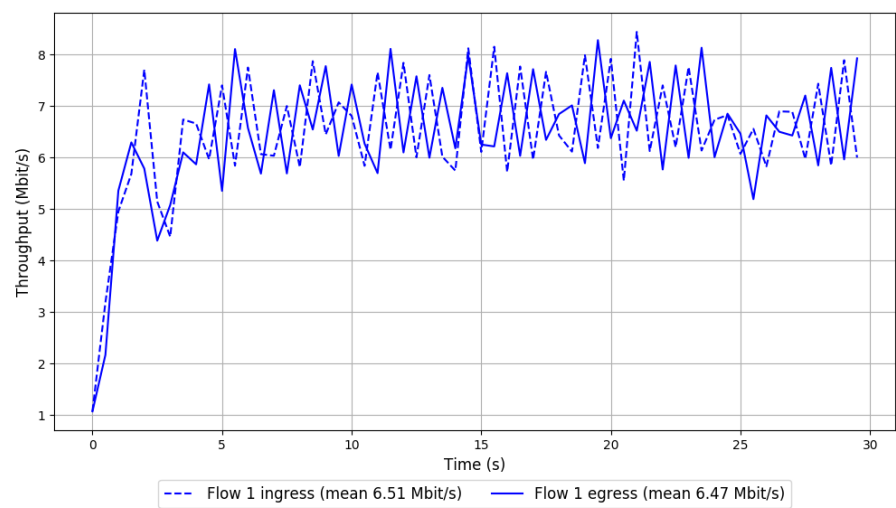
-- Flow 1:

Average throughput: 6.47 Mbit/s

95th percentile per-packet one-way delay: 64.544 ms

Loss rate: 0.47%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-01-09 09:36:01

End at: 2018-01-09 09:36:31

Below is generated by plot.py at 2018-01-09 11:28:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.58 Mbit/s

95th percentile per-packet one-way delay: 64.800 ms

Loss rate: 0.26%

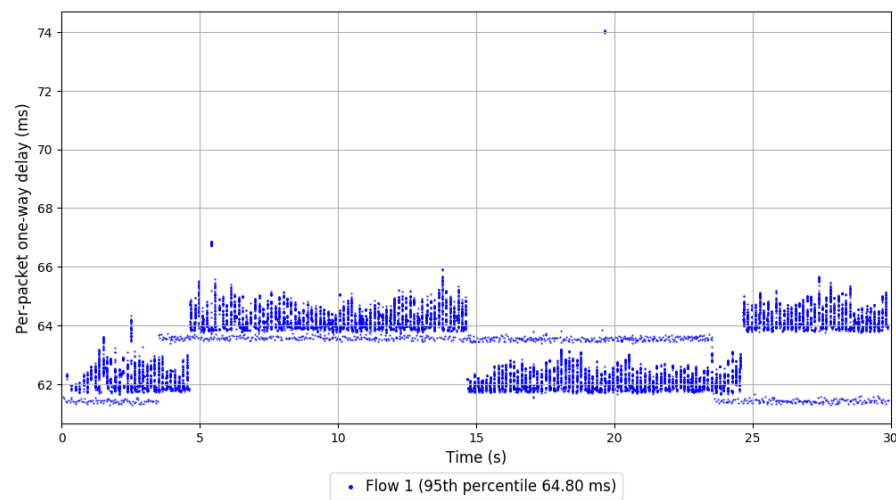
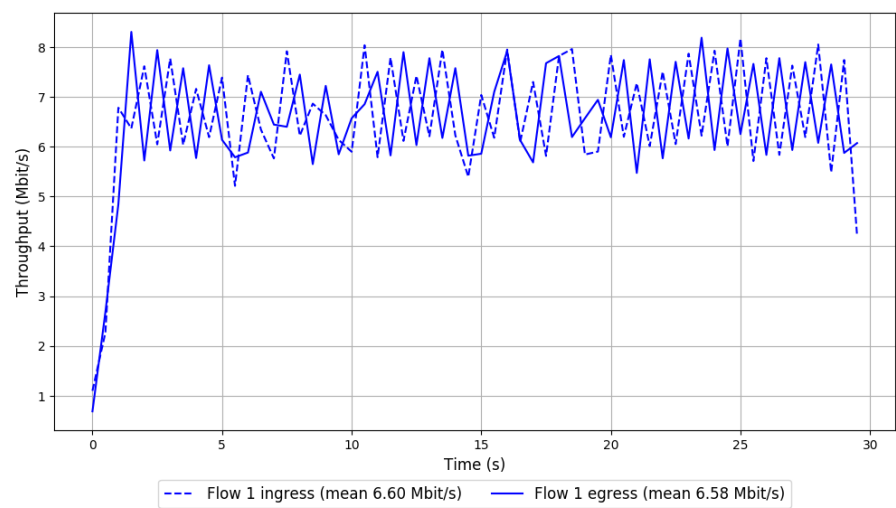
-- Flow 1:

Average throughput: 6.58 Mbit/s

95th percentile per-packet one-way delay: 64.800 ms

Loss rate: 0.26%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-01-09 09:47:44

End at: 2018-01-09 09:48:14

Below is generated by plot.py at 2018-01-09 11:28:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.20 Mbit/s

95th percentile per-packet one-way delay: 64.517 ms

Loss rate: 0.55%

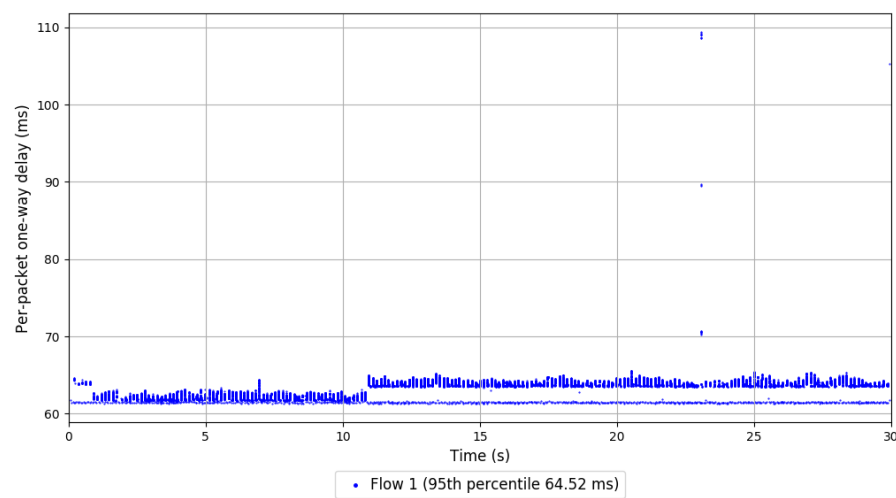
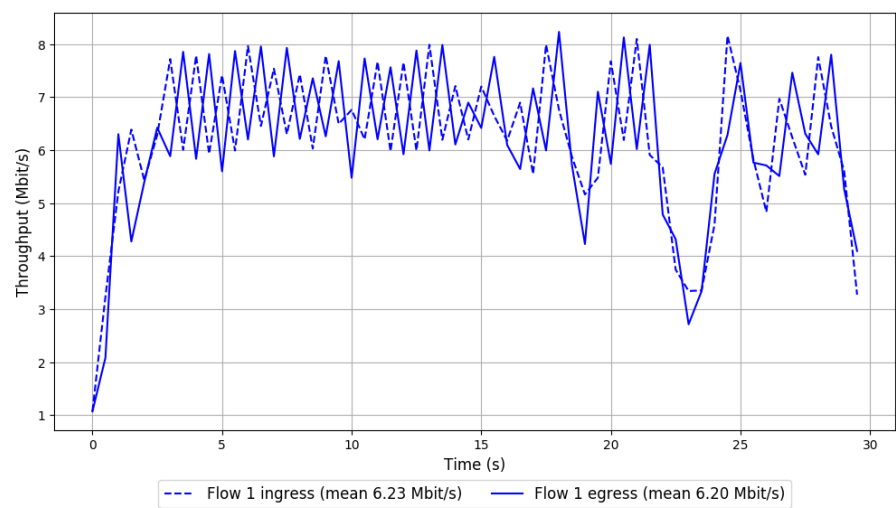
-- Flow 1:

Average throughput: 6.20 Mbit/s

95th percentile per-packet one-way delay: 64.517 ms

Loss rate: 0.55%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-01-09 09:59:07

End at: 2018-01-09 09:59:37

Below is generated by plot.py at 2018-01-09 11:28:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.22 Mbit/s

95th percentile per-packet one-way delay: 64.736 ms

Loss rate: 0.80%

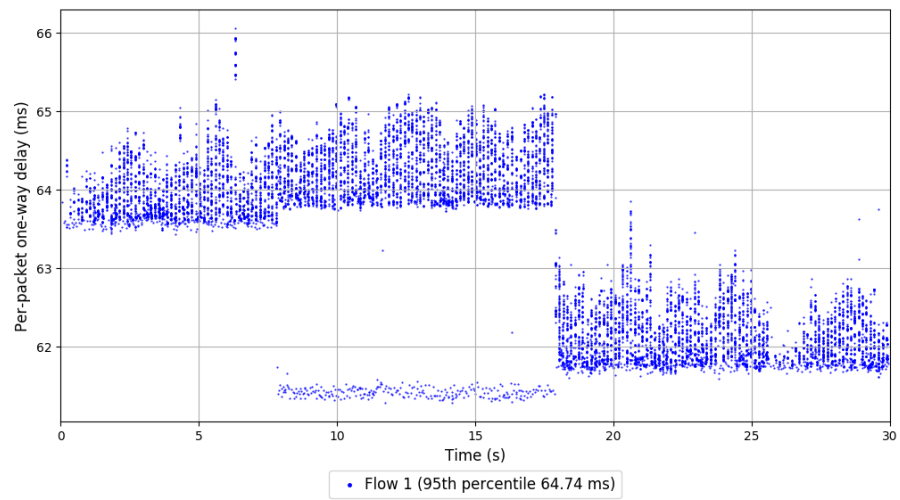
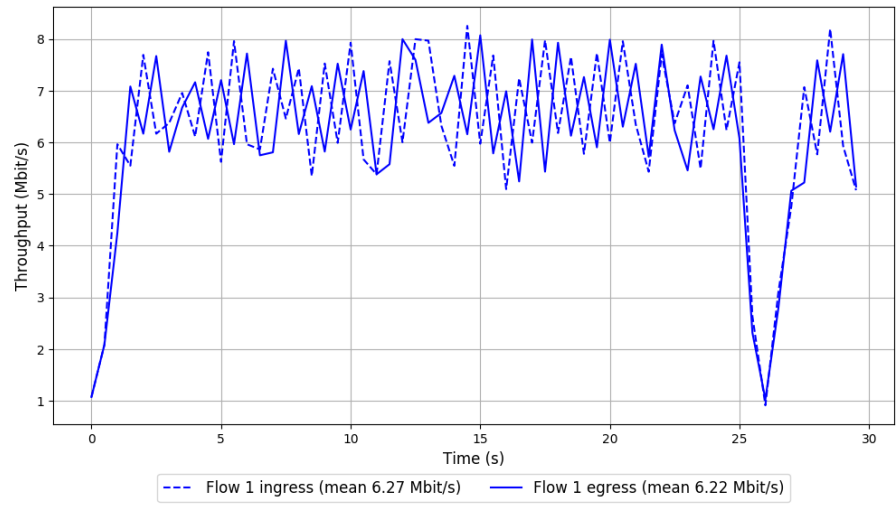
-- Flow 1:

Average throughput: 6.22 Mbit/s

95th percentile per-packet one-way delay: 64.736 ms

Loss rate: 0.80%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-01-09 10:10:40

End at: 2018-01-09 10:11:10

Below is generated by plot.py at 2018-01-09 11:28:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.70 Mbit/s

95th percentile per-packet one-way delay: 64.383 ms

Loss rate: 0.04%

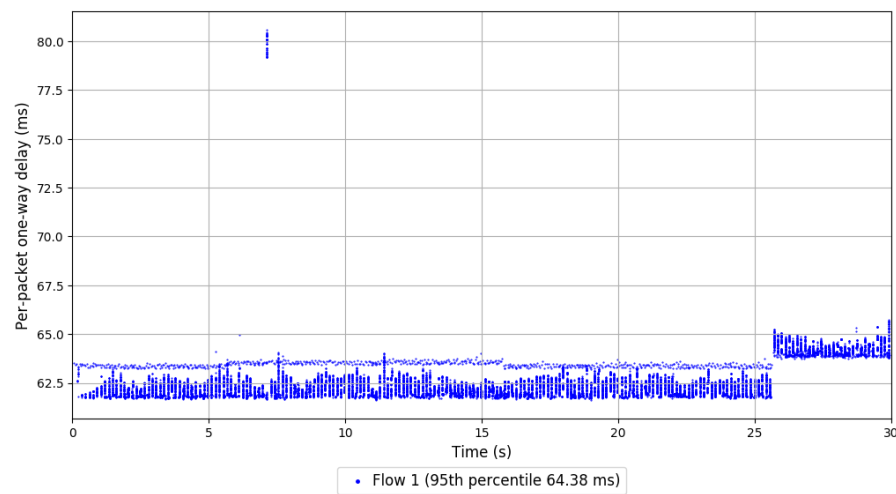
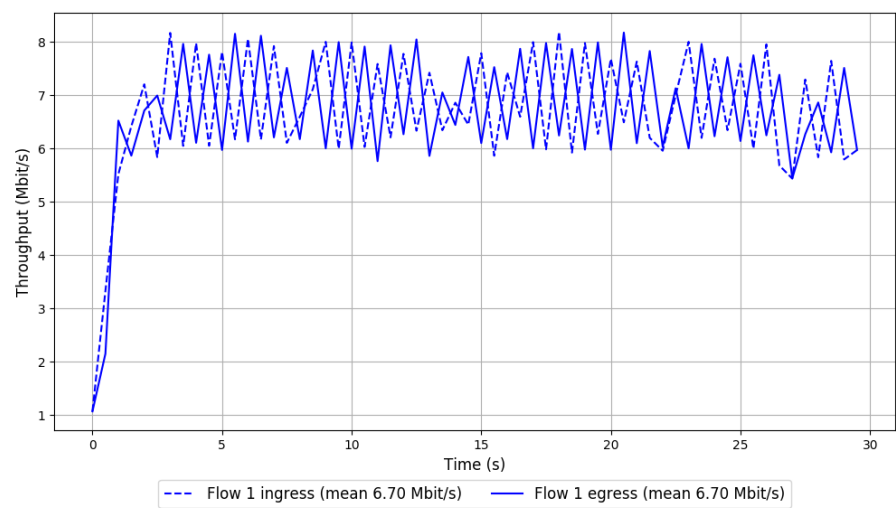
-- Flow 1:

Average throughput: 6.70 Mbit/s

95th percentile per-packet one-way delay: 64.383 ms

Loss rate: 0.04%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-01-09 10:22:15

End at: 2018-01-09 10:22:45

Below is generated by plot.py at 2018-01-09 11:28:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.46 Mbit/s

95th percentile per-packet one-way delay: 64.868 ms

Loss rate: 0.33%

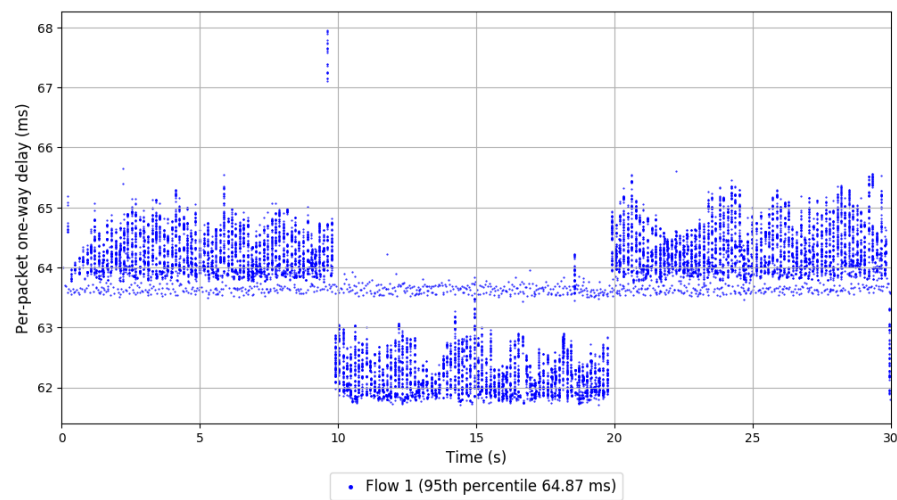
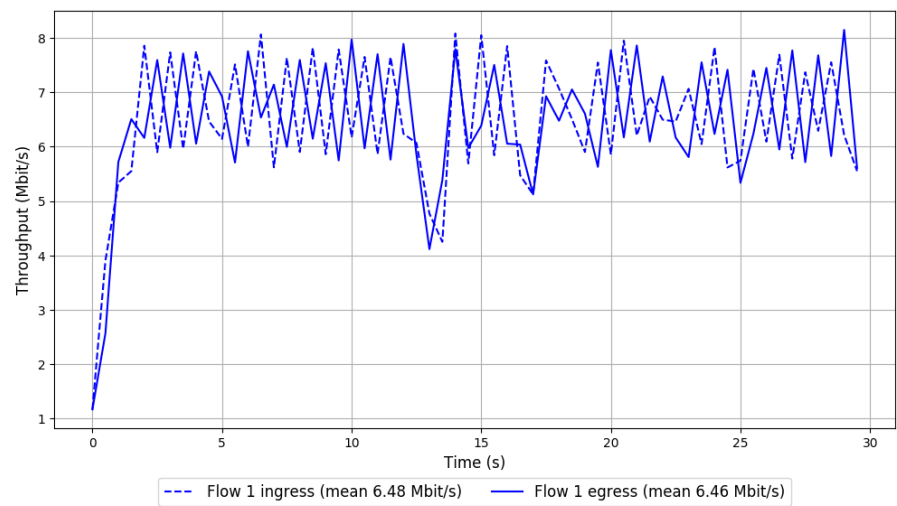
-- Flow 1:

Average throughput: 6.46 Mbit/s

95th percentile per-packet one-way delay: 64.868 ms

Loss rate: 0.33%

Run 10: Report of Sprout — Data Link

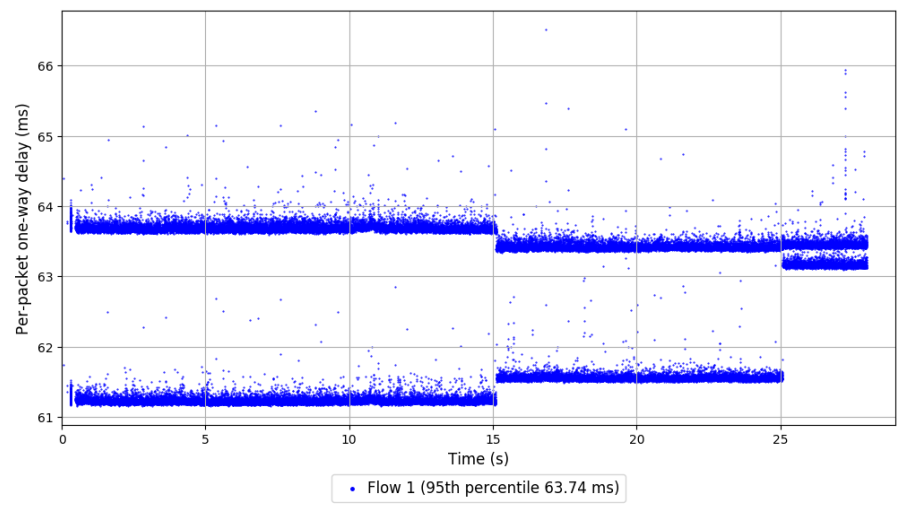
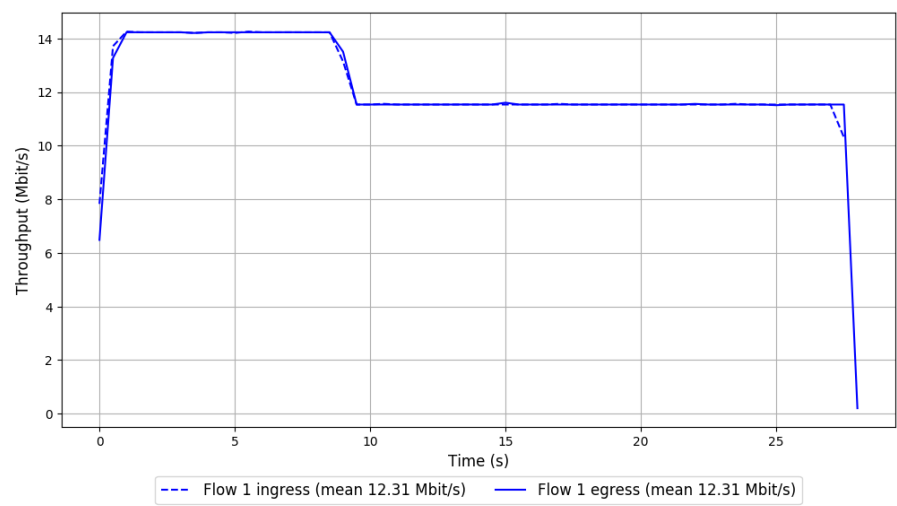


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-01-09 08:33:58
End at: 2018-01-09 08:34:28

# Below is generated by plot.py at 2018-01-09 11:28:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.31 Mbit/s
95th percentile per-packet one-way delay: 63.745 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 12.31 Mbit/s
95th percentile per-packet one-way delay: 63.745 ms
Loss rate: 0.00%
```


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

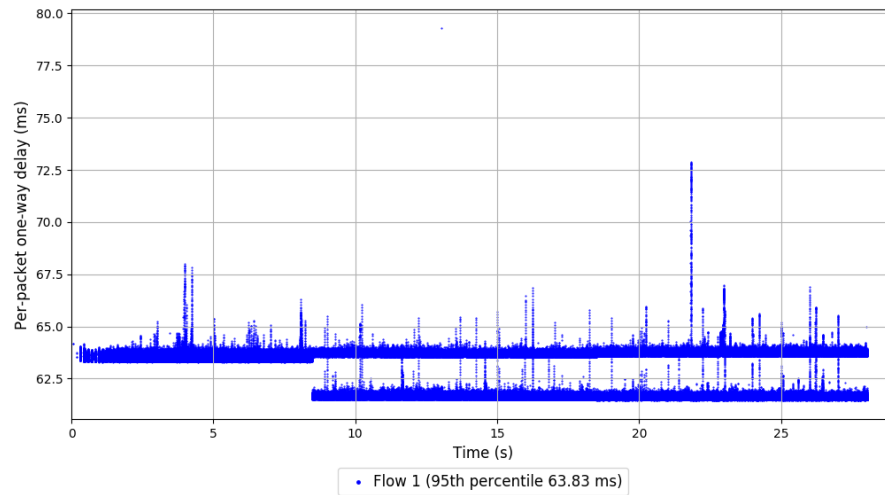
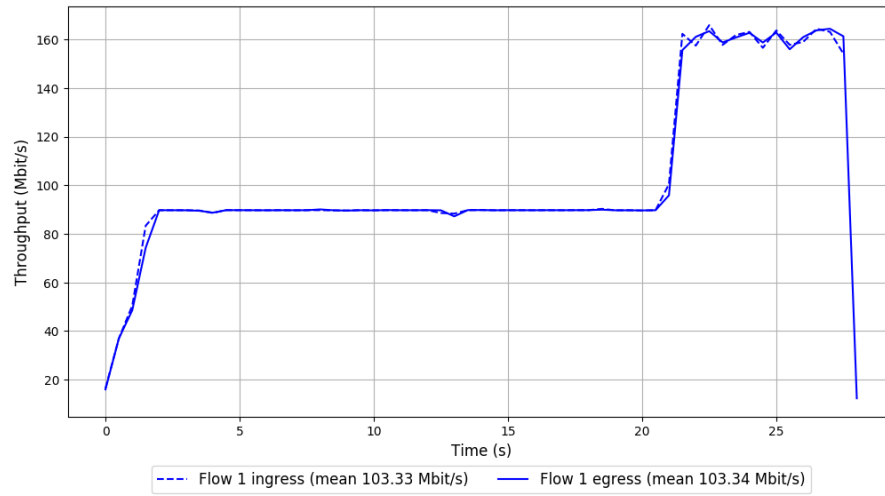


```
Run 2: Statistics of TaoVA-100x

Start at: 2018-01-09 08:45:15
End at: 2018-01-09 08:45:45

# Below is generated by plot.py at 2018-01-09 11:28:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 103.34 Mbit/s
95th percentile per-packet one-way delay: 63.833 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 103.34 Mbit/s
95th percentile per-packet one-way delay: 63.833 ms
Loss rate: 0.01%
```

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-01-09 08:56:11

End at: 2018-01-09 08:56:41

Below is generated by plot.py at 2018-01-09 11:28:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 110.32 Mbit/s

95th percentile per-packet one-way delay: 63.851 ms

Loss rate: 0.01%

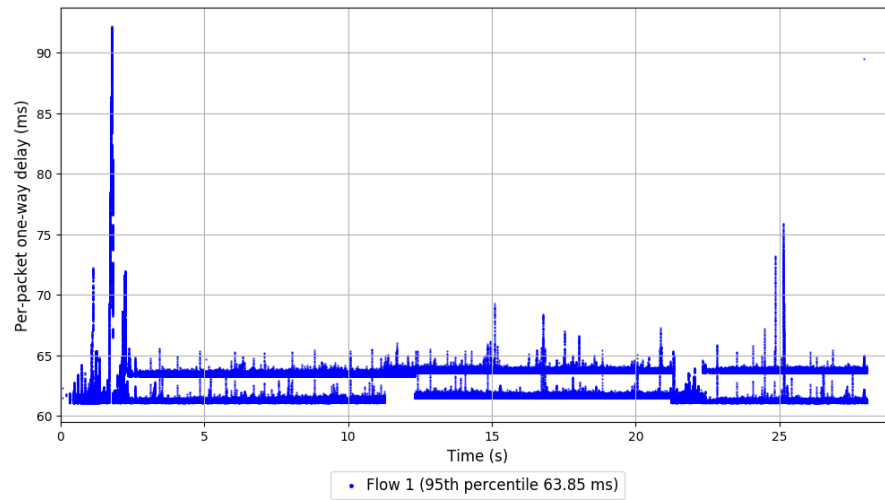
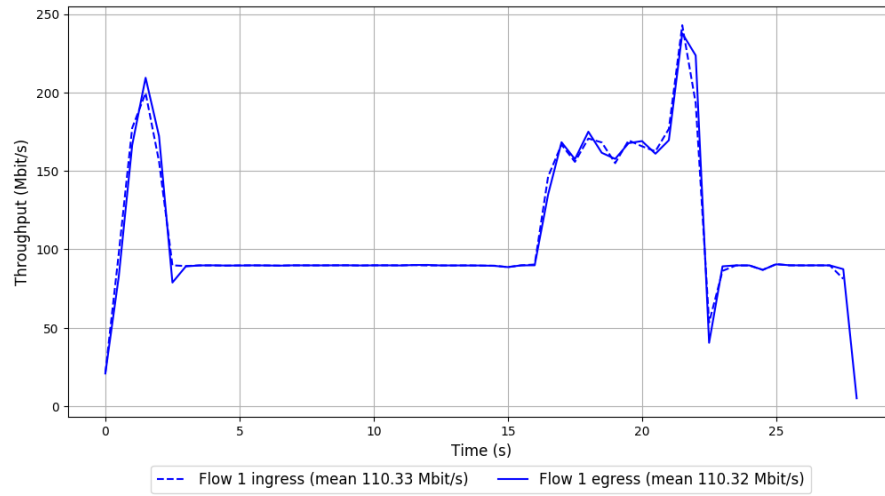
-- Flow 1:

Average throughput: 110.32 Mbit/s

95th percentile per-packet one-way delay: 63.851 ms

Loss rate: 0.01%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-01-09 09:07:36

End at: 2018-01-09 09:08:06

Below is generated by plot.py at 2018-01-09 11:30:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 161.86 Mbit/s

95th percentile per-packet one-way delay: 68.580 ms

Loss rate: 0.00%

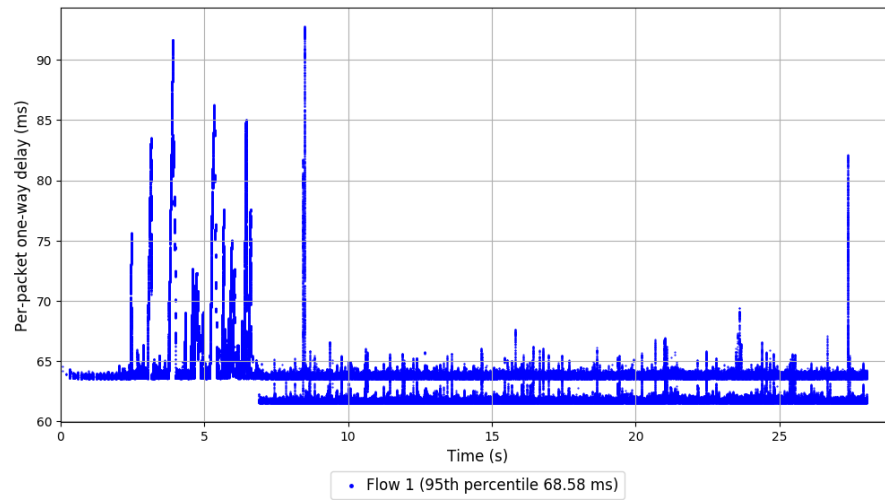
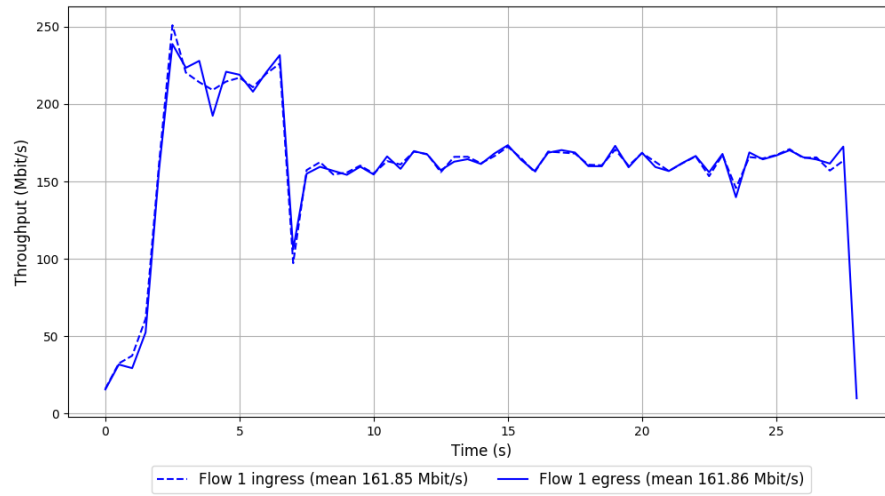
-- Flow 1:

Average throughput: 161.86 Mbit/s

95th percentile per-packet one-way delay: 68.580 ms

Loss rate: 0.00%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-01-09 09:19:14

End at: 2018-01-09 09:19:44

Below is generated by plot.py at 2018-01-09 11:30:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 187.32 Mbit/s

95th percentile per-packet one-way delay: 64.339 ms

Loss rate: 0.01%

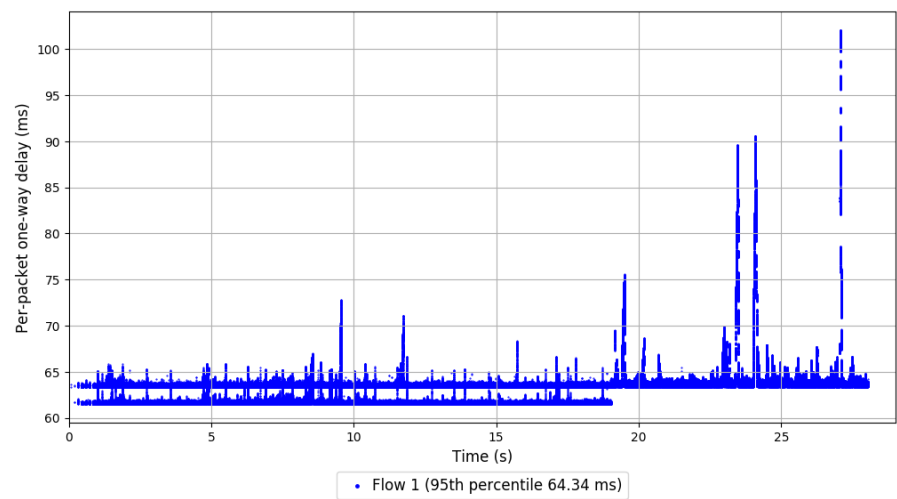
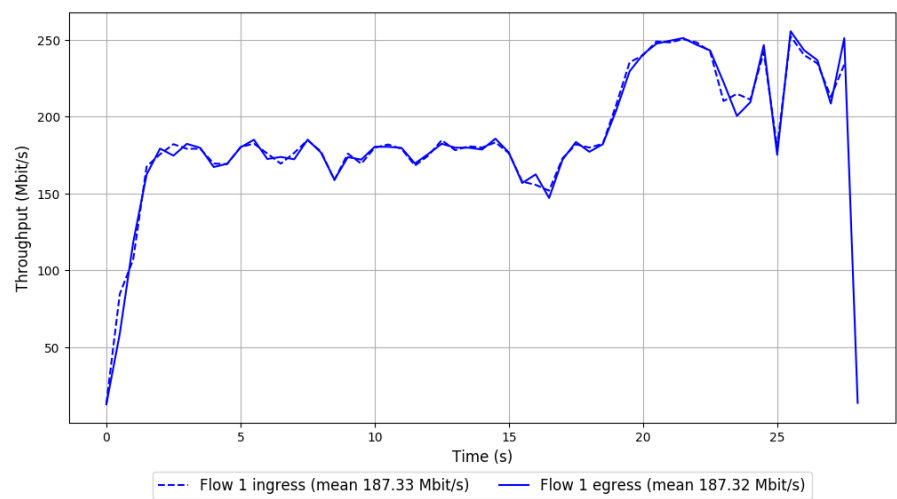
-- Flow 1:

Average throughput: 187.32 Mbit/s

95th percentile per-packet one-way delay: 64.339 ms

Loss rate: 0.01%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-01-09 09:31:00

End at: 2018-01-09 09:31:30

Below is generated by plot.py at 2018-01-09 11:31:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 216.00 Mbit/s

95th percentile per-packet one-way delay: 72.656 ms

Loss rate: 0.01%

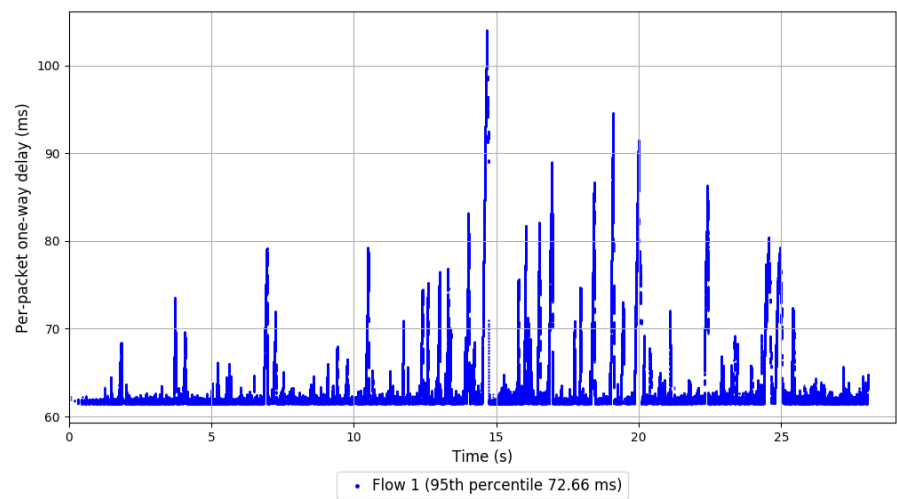
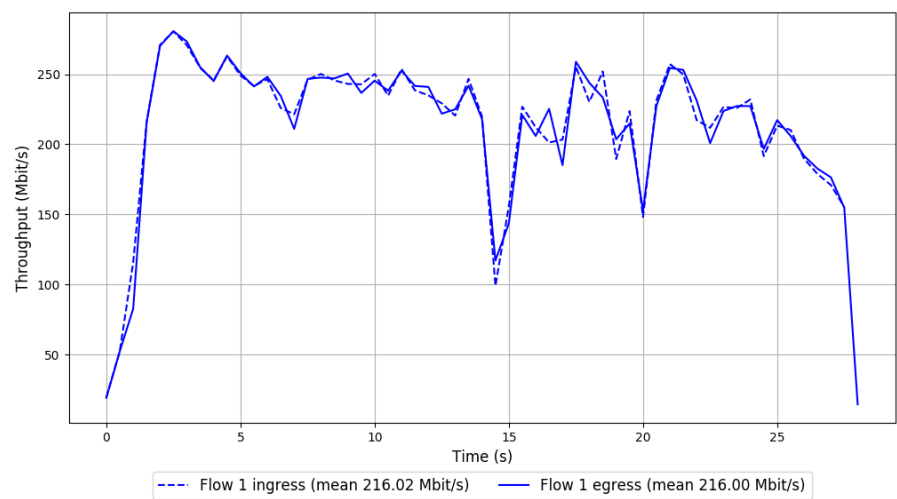
-- Flow 1:

Average throughput: 216.00 Mbit/s

95th percentile per-packet one-way delay: 72.656 ms

Loss rate: 0.01%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-01-09 09:42:49

End at: 2018-01-09 09:43:19

Below is generated by plot.py at 2018-01-09 11:31:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 191.22 Mbit/s

95th percentile per-packet one-way delay: 65.331 ms

Loss rate: 0.01%

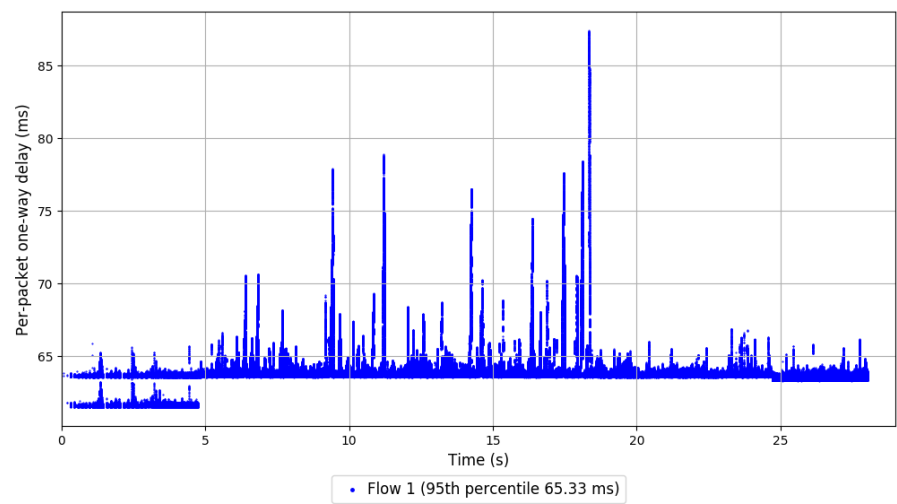
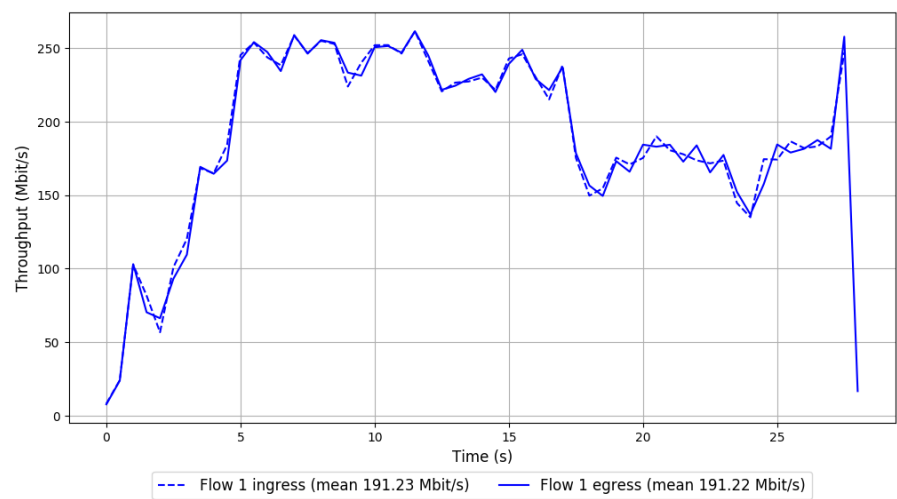
-- Flow 1:

Average throughput: 191.22 Mbit/s

95th percentile per-packet one-way delay: 65.331 ms

Loss rate: 0.01%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-01-09 09:54:22

End at: 2018-01-09 09:54:52

Below is generated by plot.py at 2018-01-09 11:31:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 145.75 Mbit/s

95th percentile per-packet one-way delay: 64.042 ms

Loss rate: 0.00%

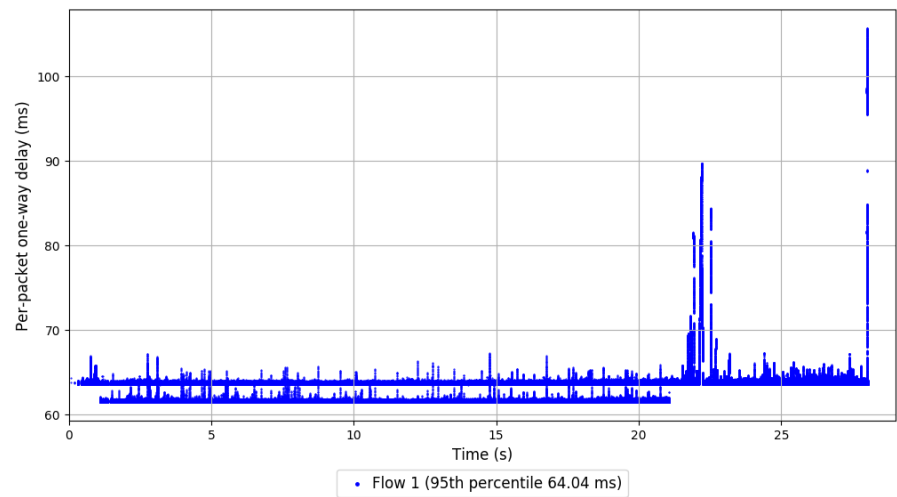
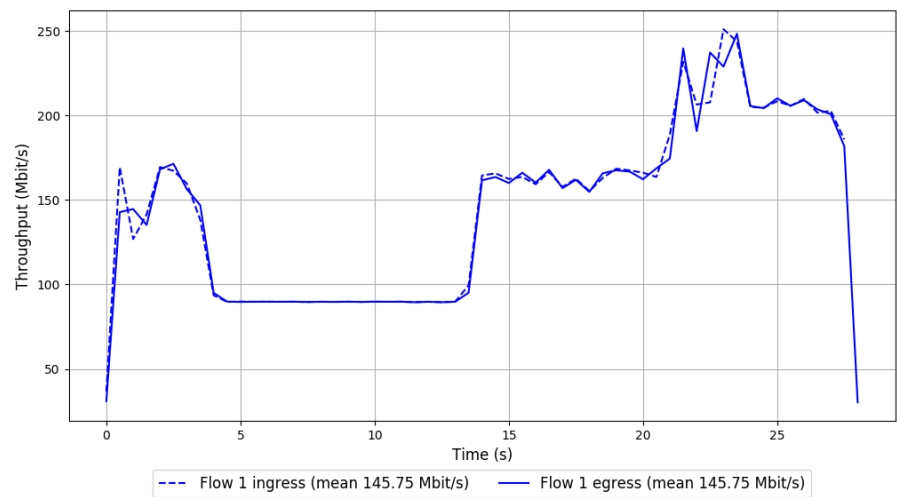
-- Flow 1:

Average throughput: 145.75 Mbit/s

95th percentile per-packet one-way delay: 64.042 ms

Loss rate: 0.00%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-01-09 10:05:56

End at: 2018-01-09 10:06:26

Below is generated by plot.py at 2018-01-09 11:31:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.58 Mbit/s

95th percentile per-packet one-way delay: 63.427 ms

Loss rate: 0.00%

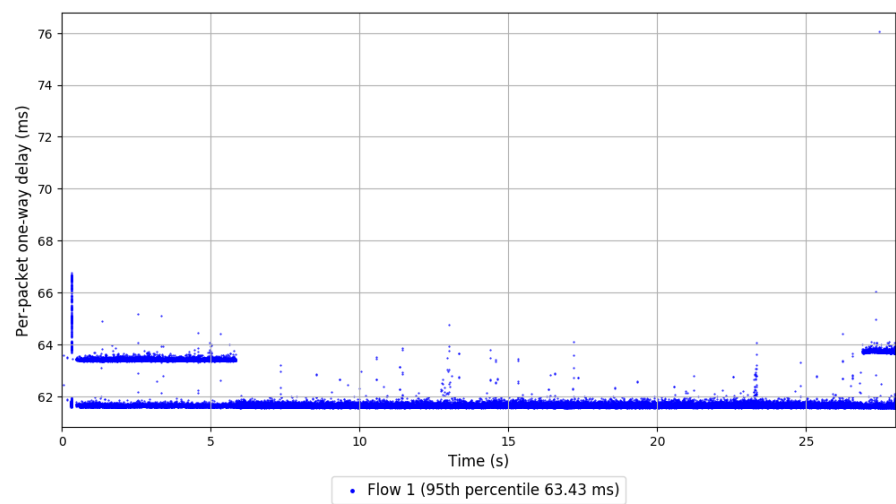
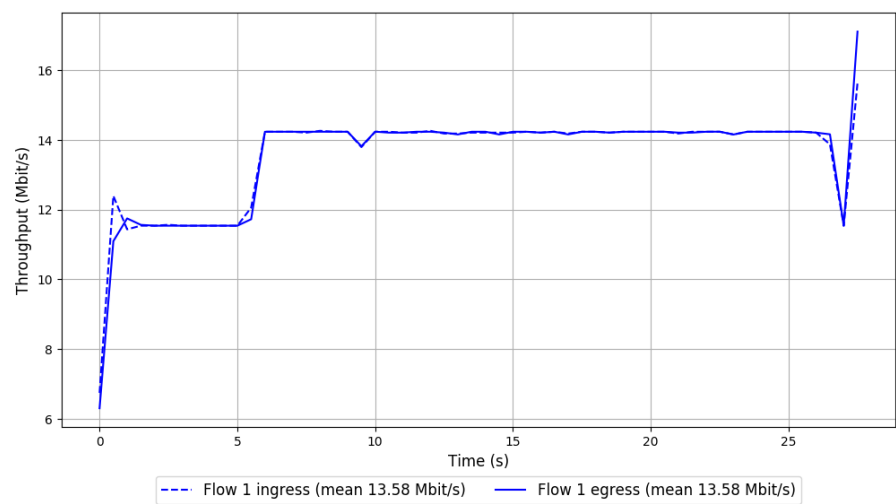
-- Flow 1:

Average throughput: 13.58 Mbit/s

95th percentile per-packet one-way delay: 63.427 ms

Loss rate: 0.00%

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

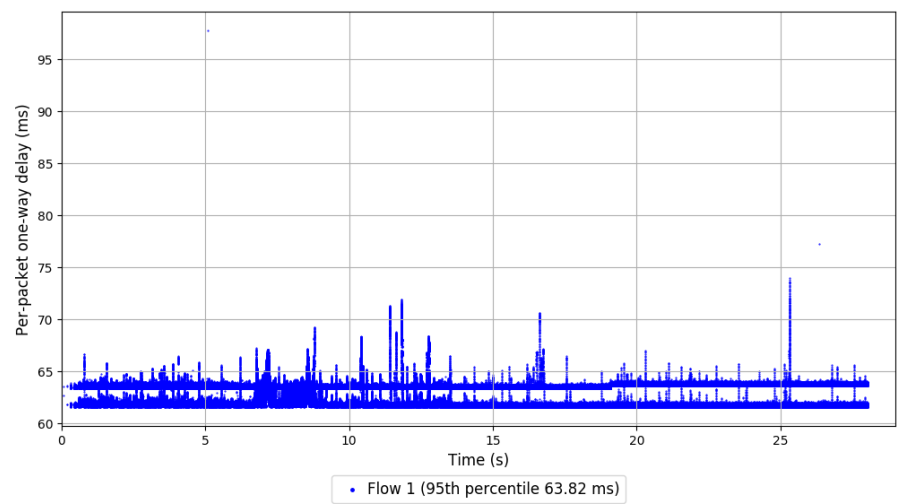
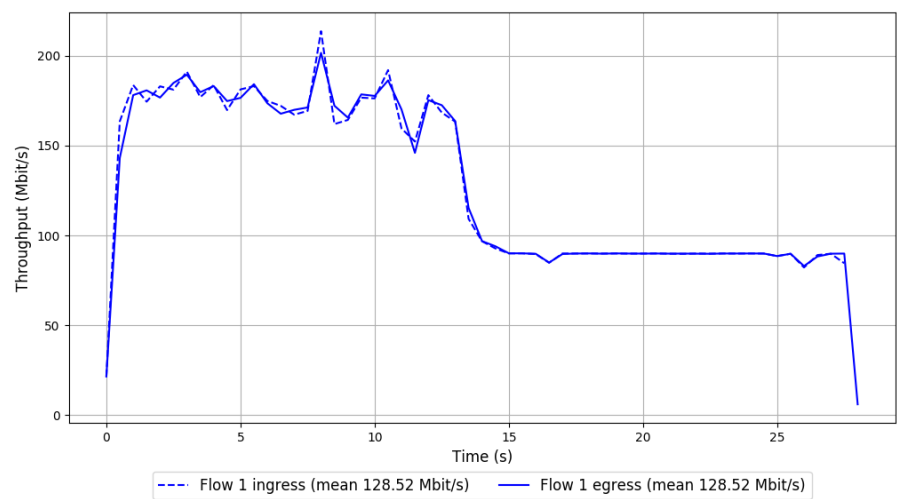


```
Run 10: Statistics of TaoVA-100x

Start at: 2018-01-09 10:17:24
End at: 2018-01-09 10:17:54

# Below is generated by plot.py at 2018-01-09 11:32:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 128.52 Mbit/s
95th percentile per-packet one-way delay: 63.823 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 128.52 Mbit/s
95th percentile per-packet one-way delay: 63.823 ms
Loss rate: 0.00%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2018-01-09 08:30:10

End at: 2018-01-09 08:30:40

Below is generated by plot.py at 2018-01-09 11:32:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 136.00 Mbit/s

95th percentile per-packet one-way delay: 65.340 ms

Loss rate: 0.00%

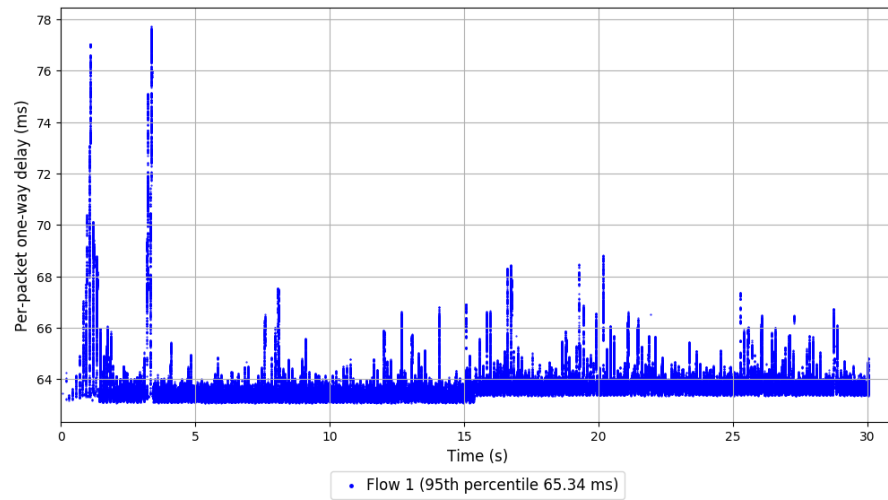
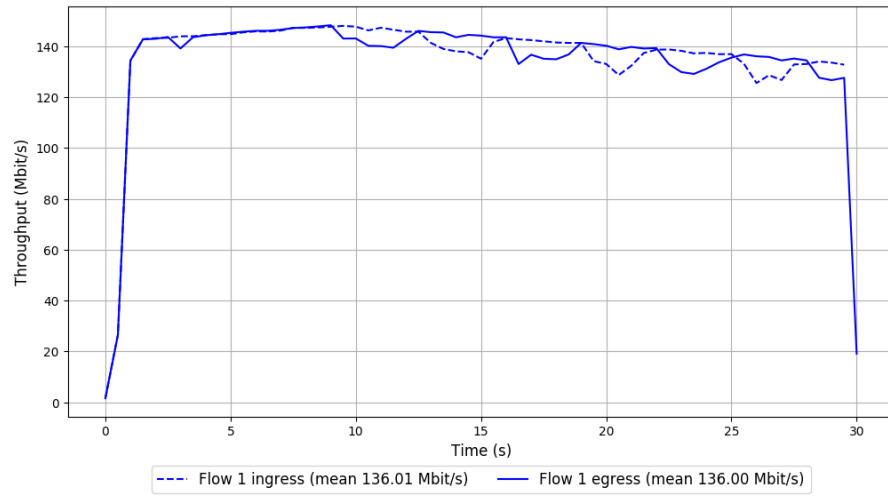
-- Flow 1:

Average throughput: 136.00 Mbit/s

95th percentile per-packet one-way delay: 65.340 ms

Loss rate: 0.00%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-01-09 08:41:35

End at: 2018-01-09 08:42:05

Below is generated by plot.py at 2018-01-09 11:32:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 17.72 Mbit/s

95th percentile per-packet one-way delay: 64.447 ms

Loss rate: 0.00%

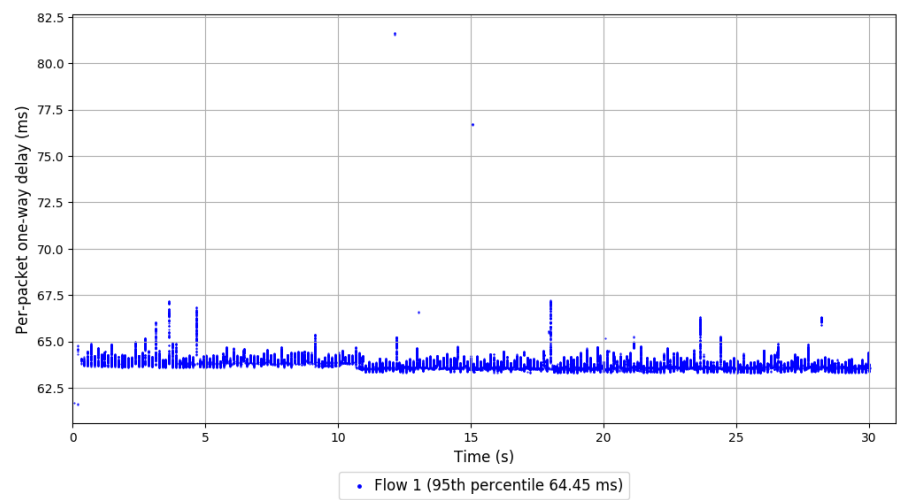
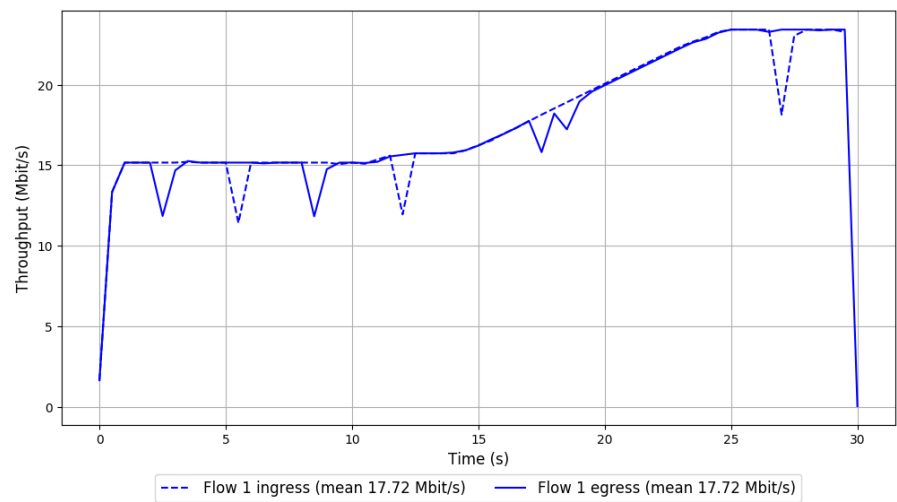
-- Flow 1:

Average throughput: 17.72 Mbit/s

95th percentile per-packet one-way delay: 64.447 ms

Loss rate: 0.00%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-01-09 08:52:25

End at: 2018-01-09 08:52:55

Below is generated by plot.py at 2018-01-09 11:32:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 97.86 Mbit/s

95th percentile per-packet one-way delay: 68.906 ms

Loss rate: 0.00%

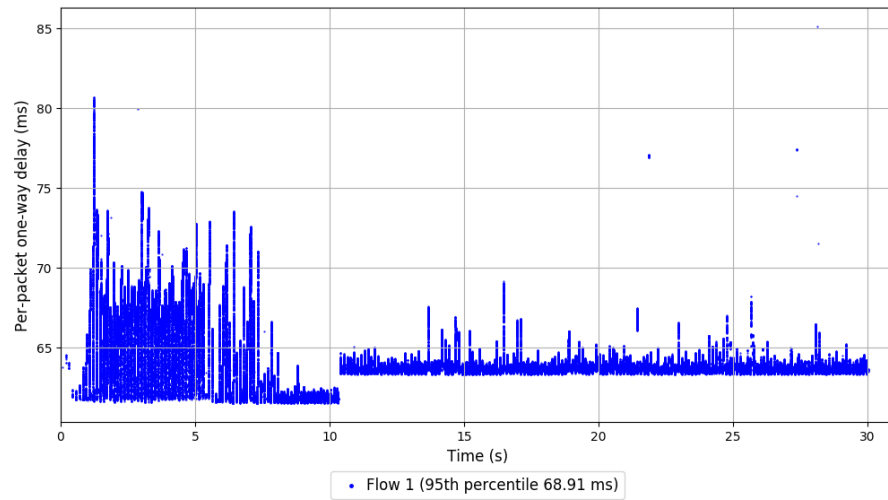
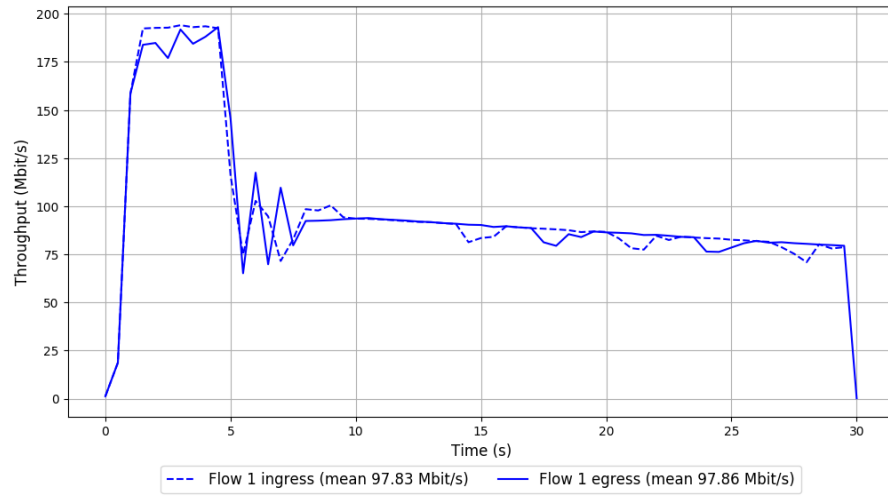
-- Flow 1:

Average throughput: 97.86 Mbit/s

95th percentile per-packet one-way delay: 68.906 ms

Loss rate: 0.00%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-01-09 09:04:05

End at: 2018-01-09 09:04:35

Below is generated by plot.py at 2018-01-09 11:32:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 10.19 Mbit/s

95th percentile per-packet one-way delay: 64.295 ms

Loss rate: 0.68%

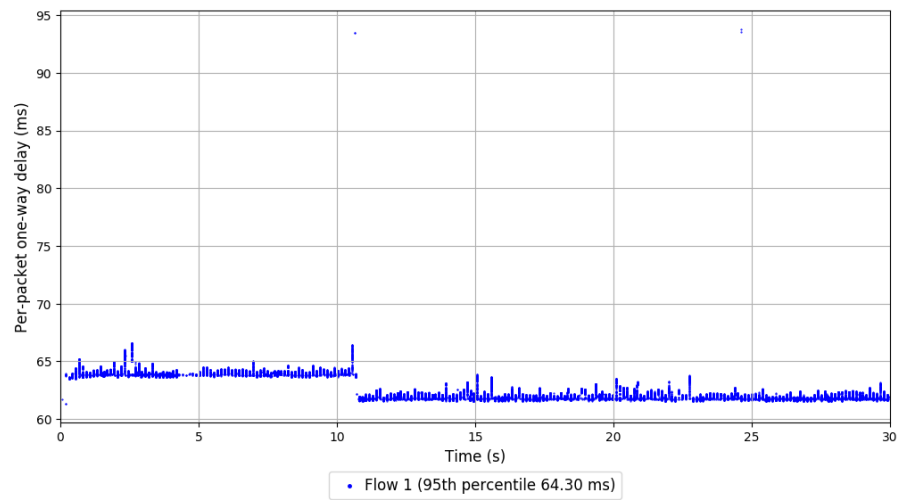
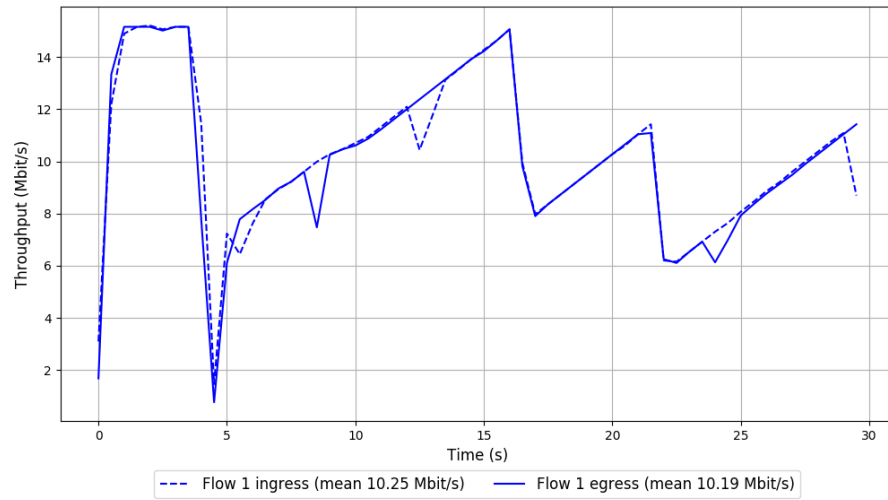
-- Flow 1:

Average throughput: 10.19 Mbit/s

95th percentile per-packet one-way delay: 64.295 ms

Loss rate: 0.68%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-01-09 09:15:27

End at: 2018-01-09 09:15:57

Below is generated by plot.py at 2018-01-09 11:32:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 36.62 Mbit/s

95th percentile per-packet one-way delay: 64.326 ms

Loss rate: 0.20%

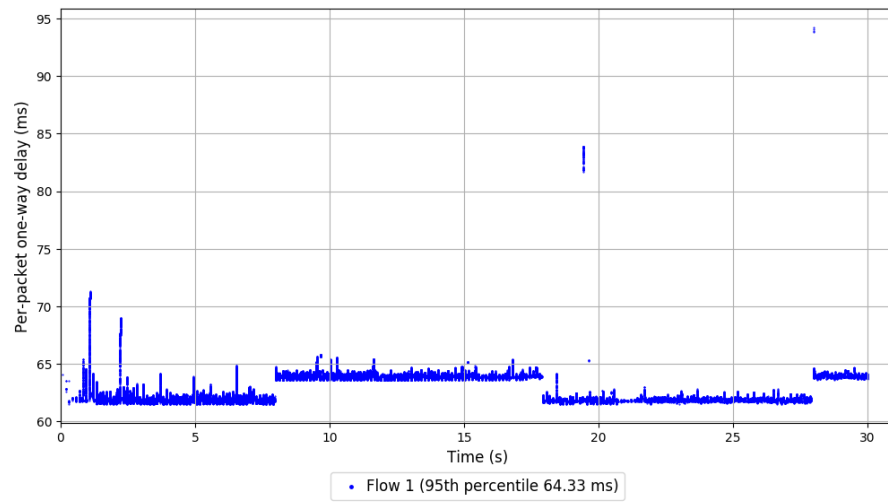
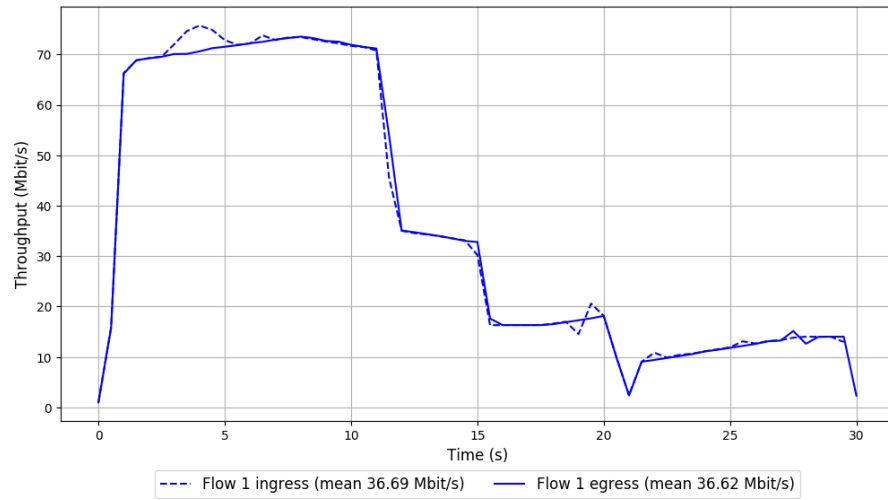
-- Flow 1:

Average throughput: 36.62 Mbit/s

95th percentile per-packet one-way delay: 64.326 ms

Loss rate: 0.20%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-01-09 09:27:12

End at: 2018-01-09 09:27:42

Below is generated by plot.py at 2018-01-09 11:32:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 60.46 Mbit/s

95th percentile per-packet one-way delay: 64.169 ms

Loss rate: 0.00%

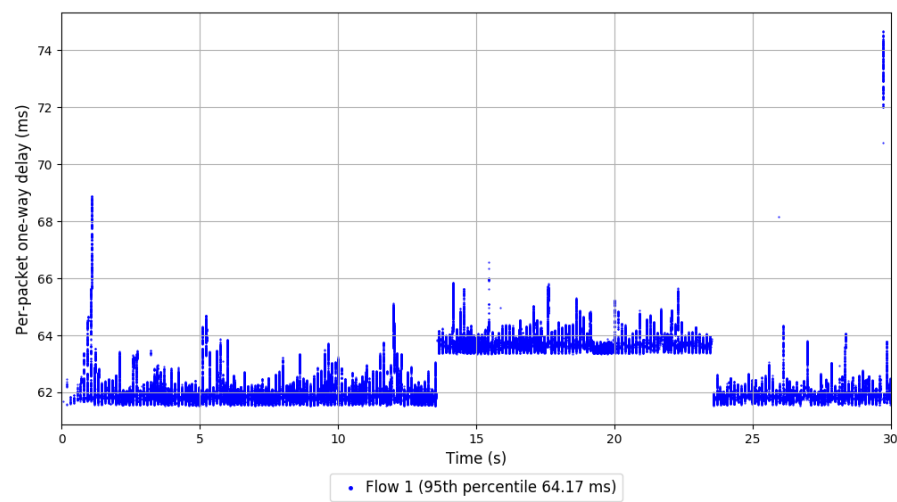
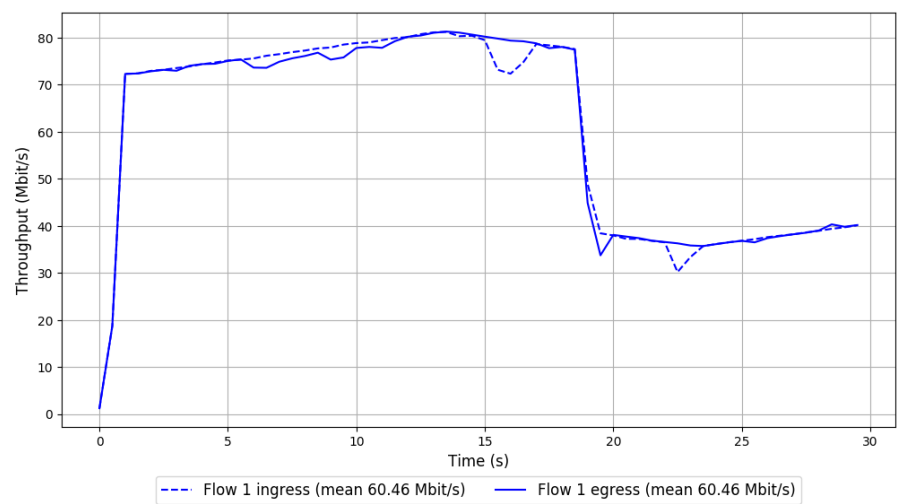
-- Flow 1:

Average throughput: 60.46 Mbit/s

95th percentile per-packet one-way delay: 64.169 ms

Loss rate: 0.00%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-01-09 09:39:04

End at: 2018-01-09 09:39:34

Below is generated by plot.py at 2018-01-09 11:32:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 42.85 Mbit/s

95th percentile per-packet one-way delay: 64.870 ms

Loss rate: 0.32%

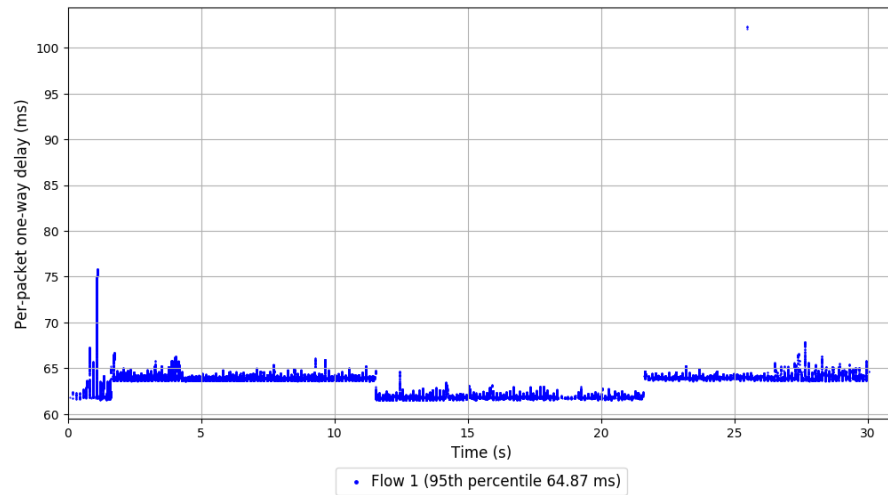
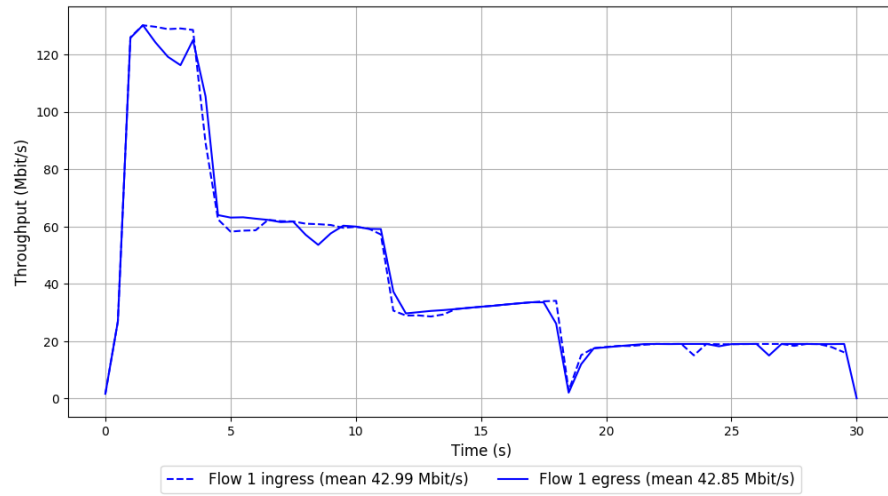
-- Flow 1:

Average throughput: 42.85 Mbit/s

95th percentile per-packet one-way delay: 64.870 ms

Loss rate: 0.32%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-01-09 09:50:47

End at: 2018-01-09 09:51:17

Below is generated by plot.py at 2018-01-09 11:32:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 15.91 Mbit/s

95th percentile per-packet one-way delay: 64.472 ms

Loss rate: 0.00%

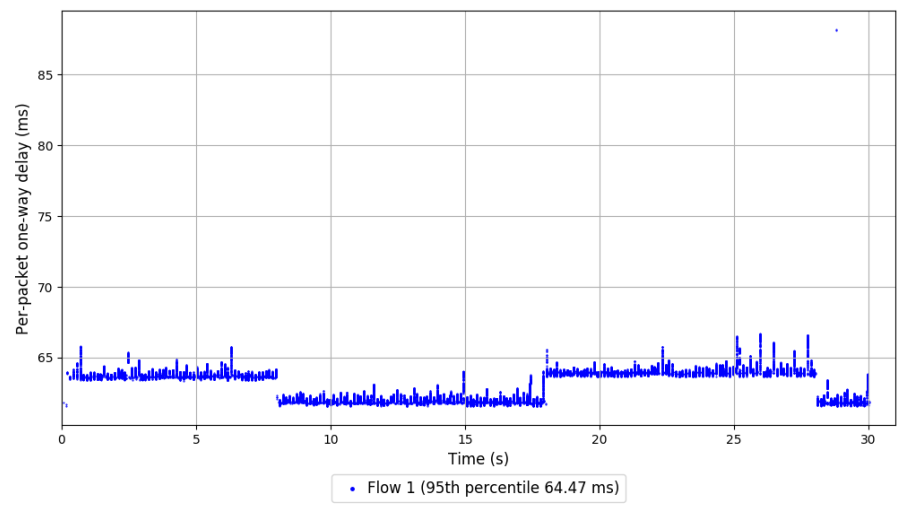
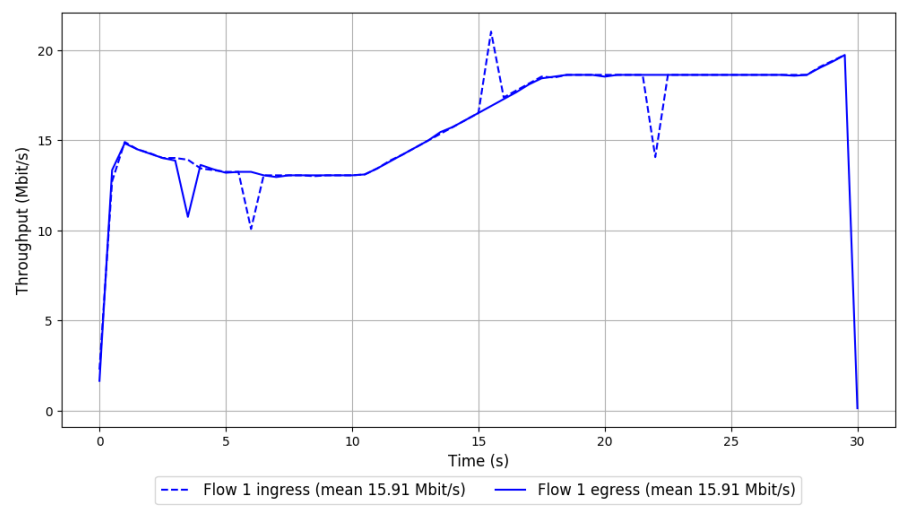
-- Flow 1:

Average throughput: 15.91 Mbit/s

95th percentile per-packet one-way delay: 64.472 ms

Loss rate: 0.00%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-01-09 10:02:13

End at: 2018-01-09 10:02:43

Below is generated by plot.py at 2018-01-09 11:32:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 34.27 Mbit/s

95th percentile per-packet one-way delay: 64.671 ms

Loss rate: 0.51%

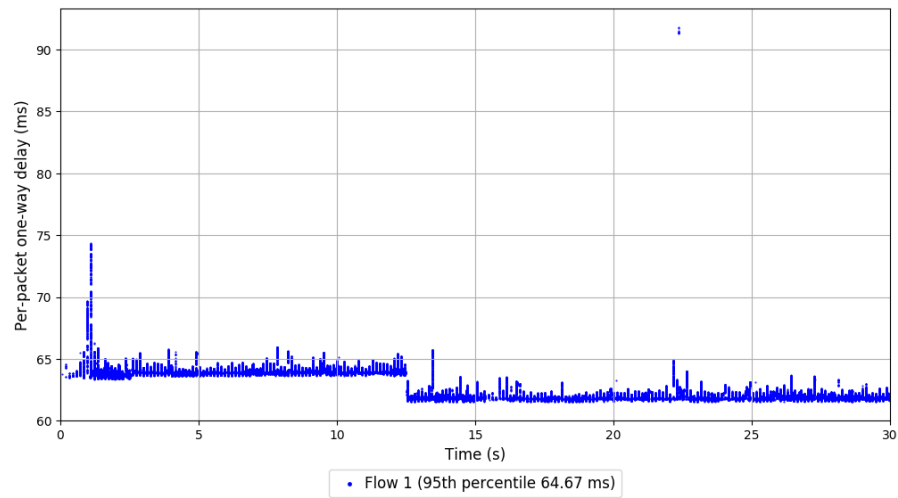
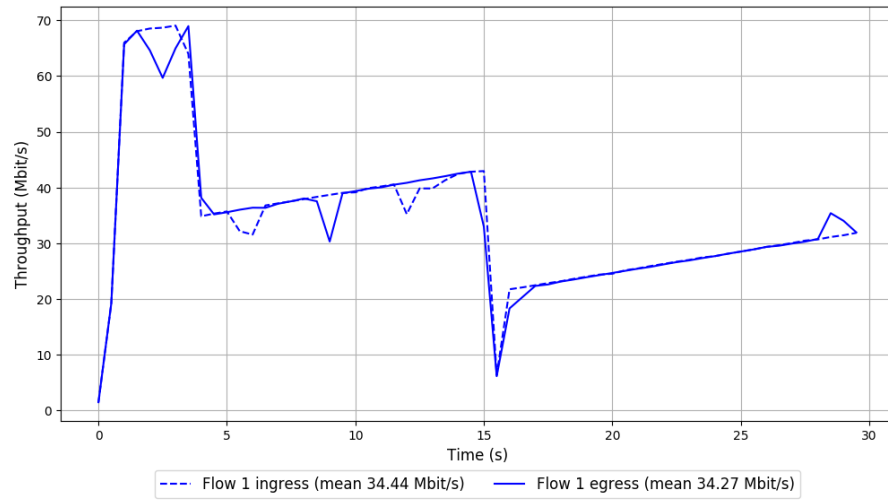
-- Flow 1:

Average throughput: 34.27 Mbit/s

95th percentile per-packet one-way delay: 64.671 ms

Loss rate: 0.51%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-01-09 10:13:44

End at: 2018-01-09 10:14:14

Below is generated by plot.py at 2018-01-09 11:32:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 14.22 Mbit/s

95th percentile per-packet one-way delay: 64.421 ms

Loss rate: 0.60%

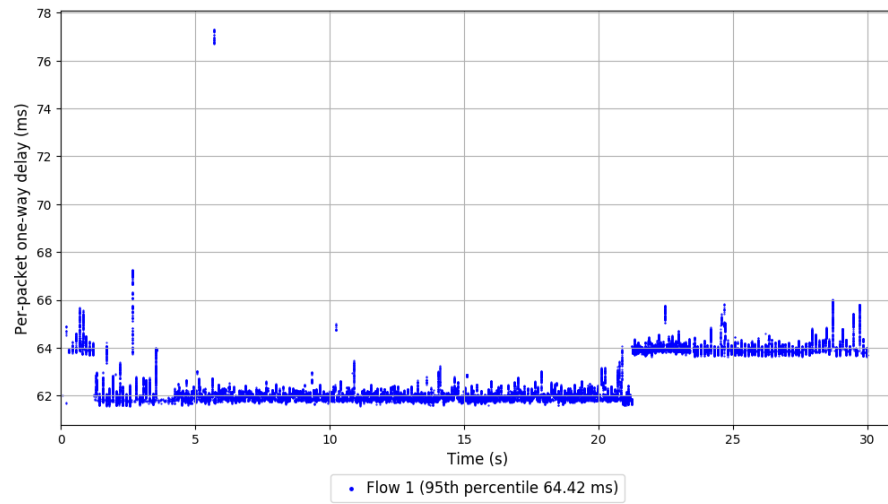
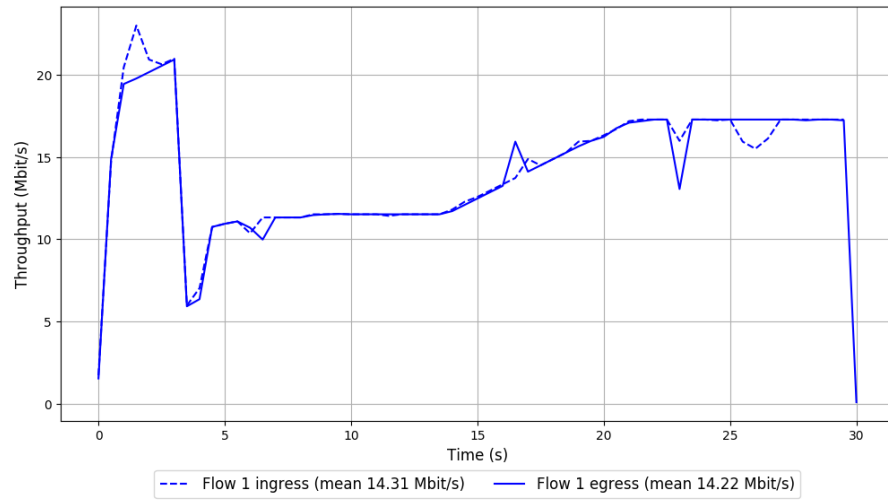
-- Flow 1:

Average throughput: 14.22 Mbit/s

95th percentile per-packet one-way delay: 64.421 ms

Loss rate: 0.60%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-01-09 08:30:55

End at: 2018-01-09 08:31:25

Below is generated by plot.py at 2018-01-09 11:34:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 226.25 Mbit/s

95th percentile per-packet one-way delay: 211.383 ms

Loss rate: 1.89%

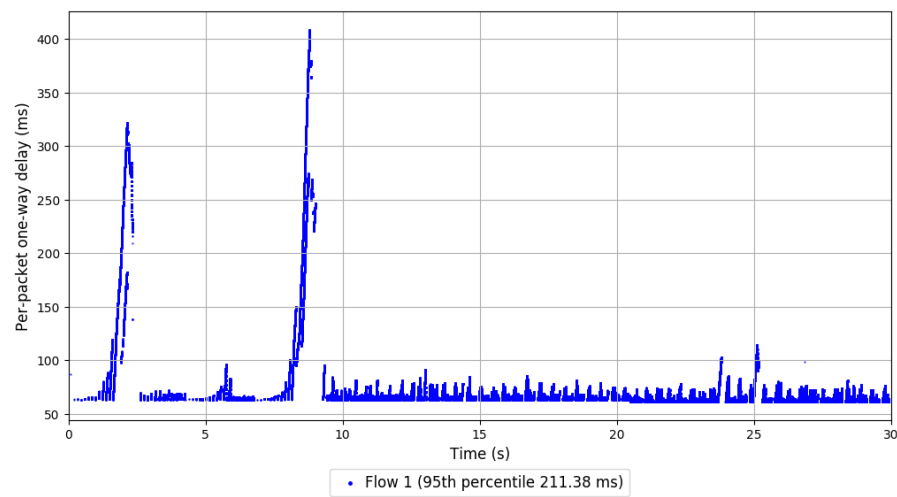
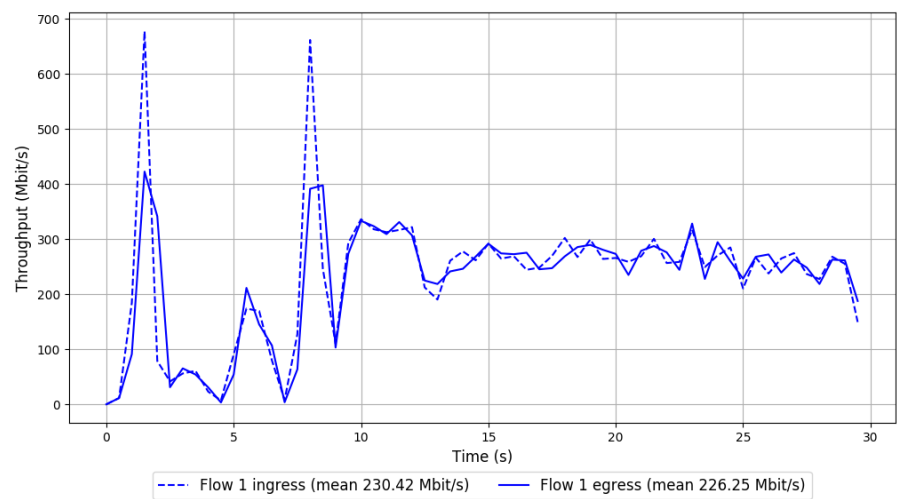
-- Flow 1:

Average throughput: 226.25 Mbit/s

95th percentile per-packet one-way delay: 211.383 ms

Loss rate: 1.89%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-01-09 08:42:13

End at: 2018-01-09 08:42:43

Below is generated by plot.py at 2018-01-09 11:35:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 232.93 Mbit/s

95th percentile per-packet one-way delay: 129.731 ms

Loss rate: 2.85%

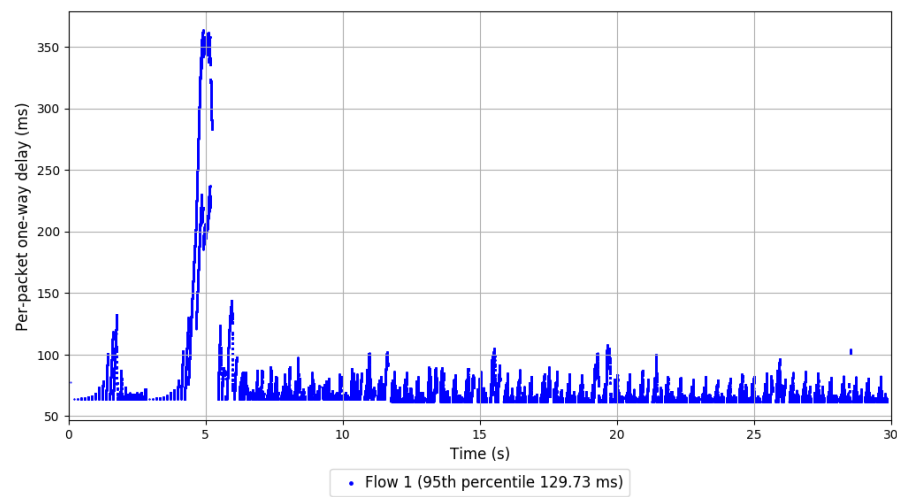
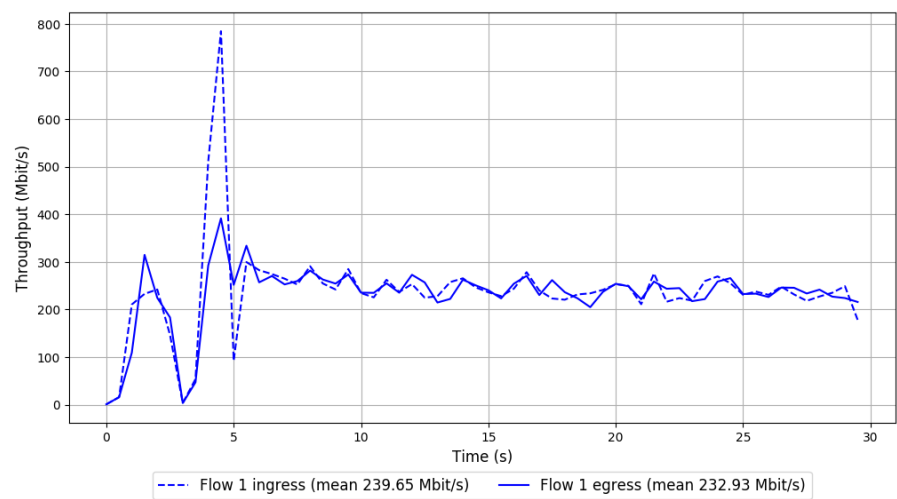
-- Flow 1:

Average throughput: 232.93 Mbit/s

95th percentile per-packet one-way delay: 129.731 ms

Loss rate: 2.85%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-01-09 08:53:08

End at: 2018-01-09 08:53:38

Below is generated by plot.py at 2018-01-09 11:35:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 230.96 Mbit/s

95th percentile per-packet one-way delay: 188.329 ms

Loss rate: 2.80%

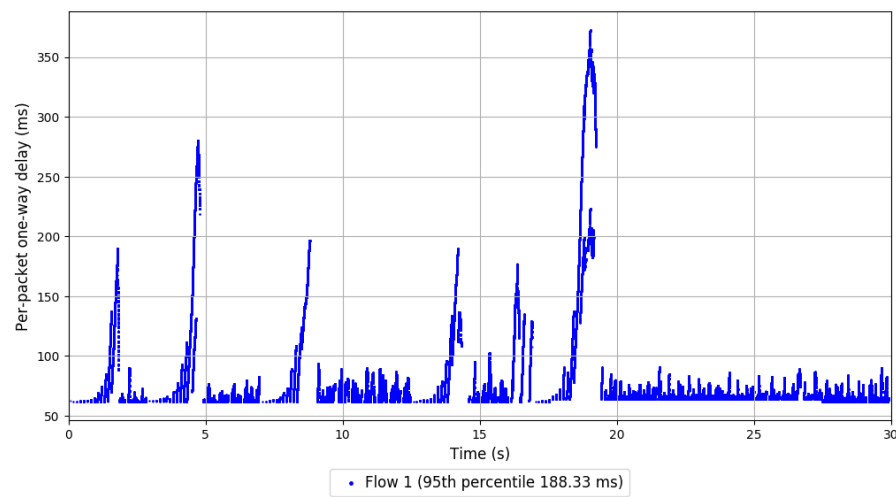
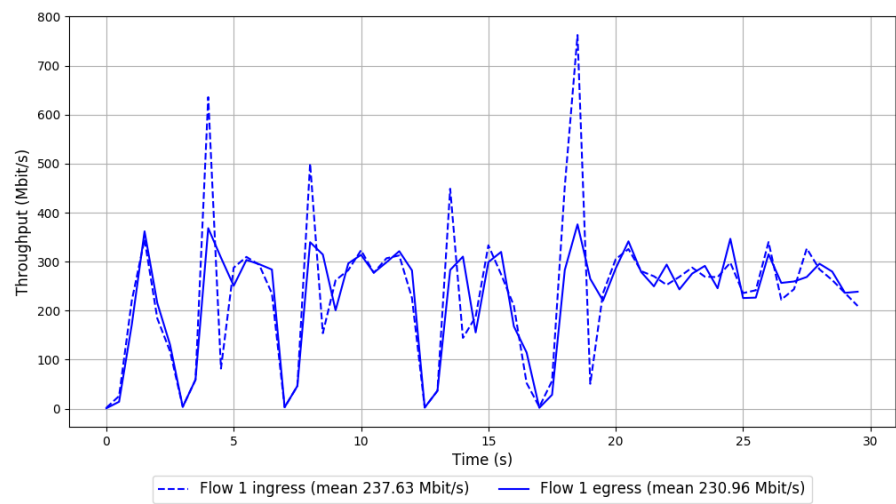
-- Flow 1:

Average throughput: 230.96 Mbit/s

95th percentile per-packet one-way delay: 188.329 ms

Loss rate: 2.80%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-01-09 09:04:43

End at: 2018-01-09 09:05:13

Below is generated by plot.py at 2018-01-09 11:35:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 230.64 Mbit/s

95th percentile per-packet one-way delay: 129.783 ms

Loss rate: 2.14%

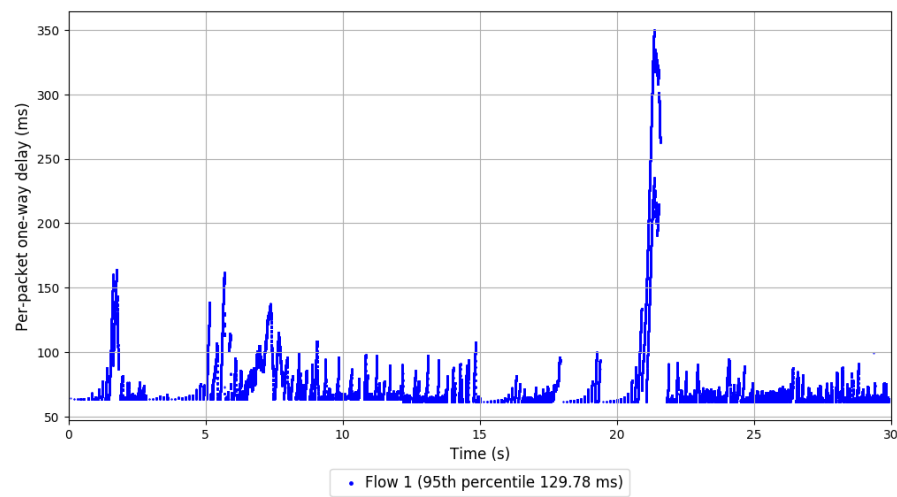
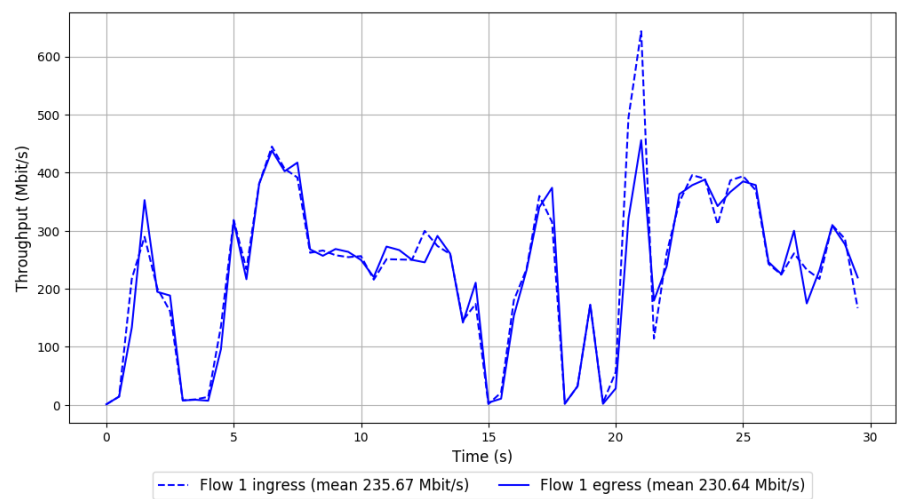
-- Flow 1:

Average throughput: 230.64 Mbit/s

95th percentile per-packet one-way delay: 129.783 ms

Loss rate: 2.14%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-01-09 09:16:07

End at: 2018-01-09 09:16:37

Below is generated by plot.py at 2018-01-09 11:35:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 279.56 Mbit/s

95th percentile per-packet one-way delay: 269.286 ms

Loss rate: 5.26%

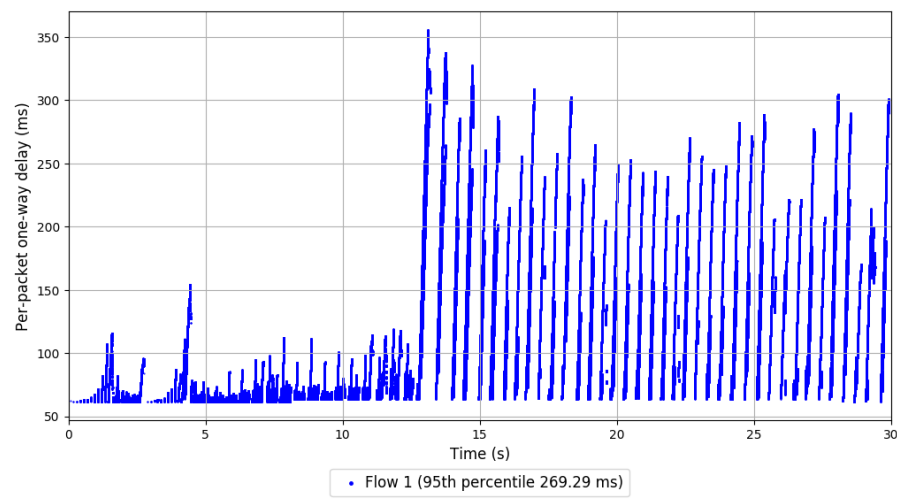
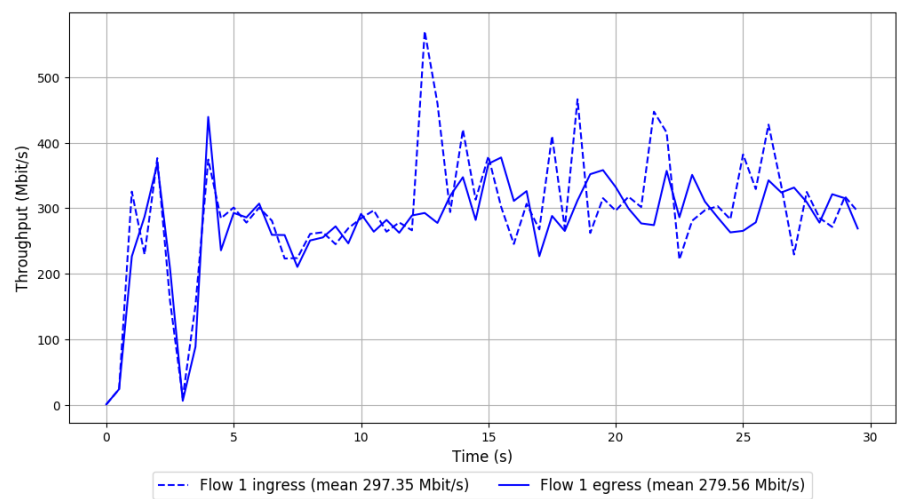
-- Flow 1:

Average throughput: 279.56 Mbit/s

95th percentile per-packet one-way delay: 269.286 ms

Loss rate: 5.26%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-01-09 09:27:53

End at: 2018-01-09 09:28:23

Below is generated by plot.py at 2018-01-09 11:35:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 272.72 Mbit/s

95th percentile per-packet one-way delay: 97.835 ms

Loss rate: 0.18%

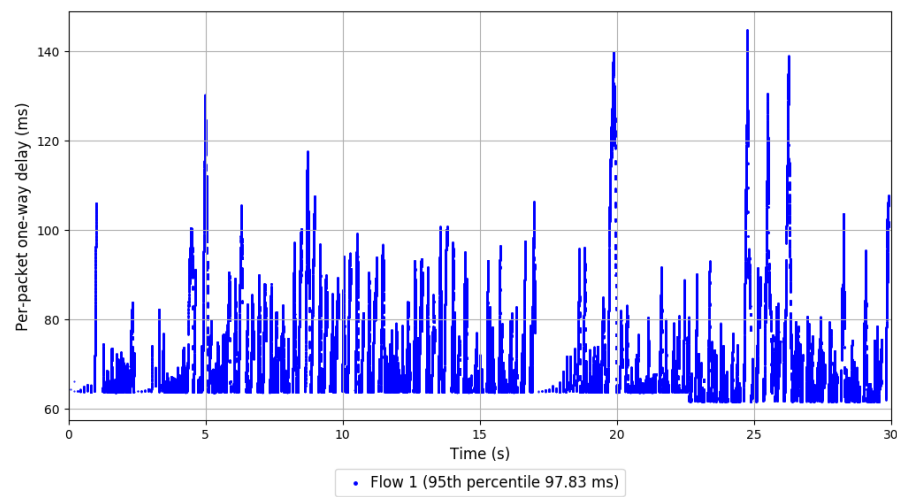
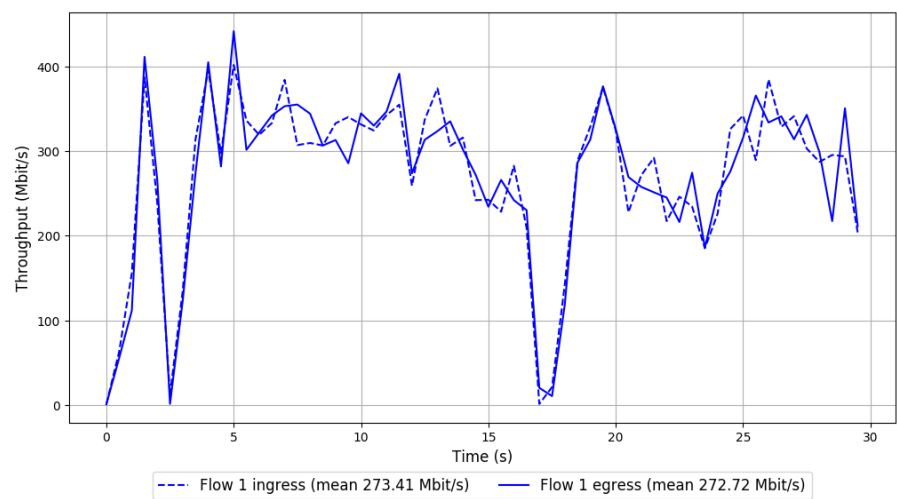
-- Flow 1:

Average throughput: 272.72 Mbit/s

95th percentile per-packet one-way delay: 97.835 ms

Loss rate: 0.18%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-01-09 09:39:44

End at: 2018-01-09 09:40:14

Below is generated by plot.py at 2018-01-09 11:35:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 253.52 Mbit/s

95th percentile per-packet one-way delay: 117.120 ms

Loss rate: 0.33%

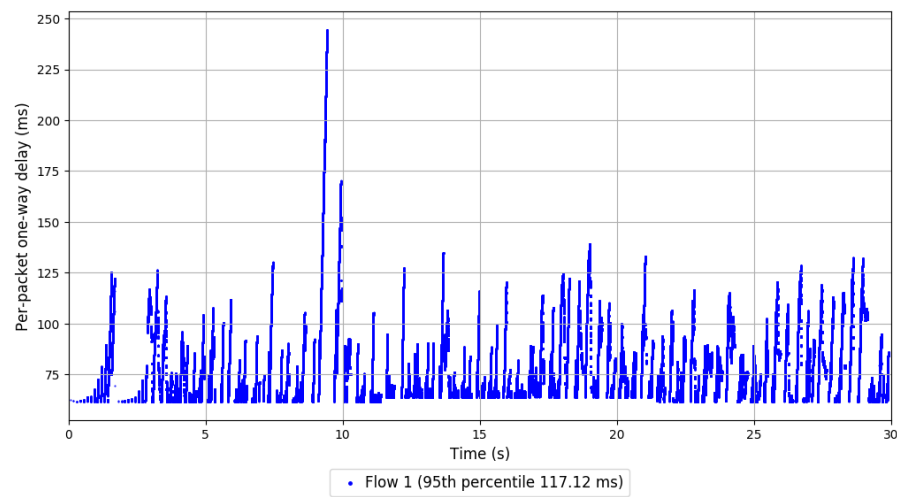
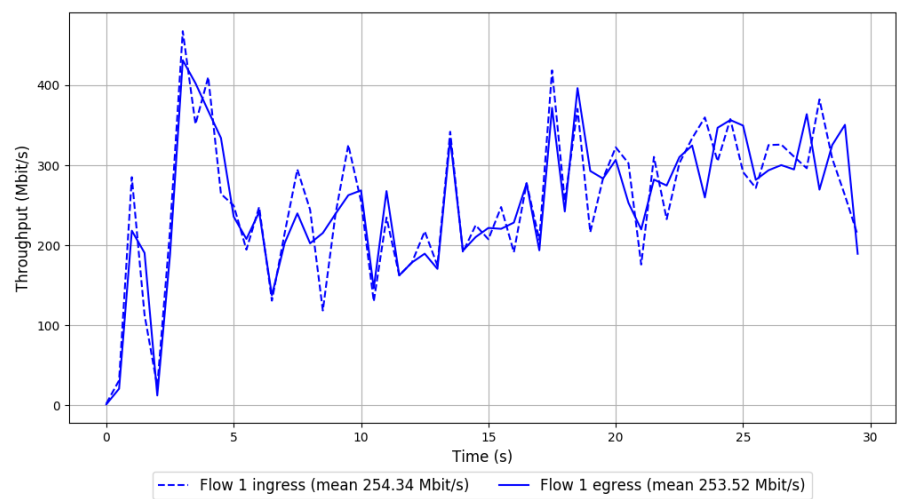
-- Flow 1:

Average throughput: 253.52 Mbit/s

95th percentile per-packet one-way delay: 117.120 ms

Loss rate: 0.33%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-01-09 09:51:26

End at: 2018-01-09 09:51:56

Below is generated by plot.py at 2018-01-09 11:36:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 253.80 Mbit/s

95th percentile per-packet one-way delay: 115.873 ms

Loss rate: 2.80%

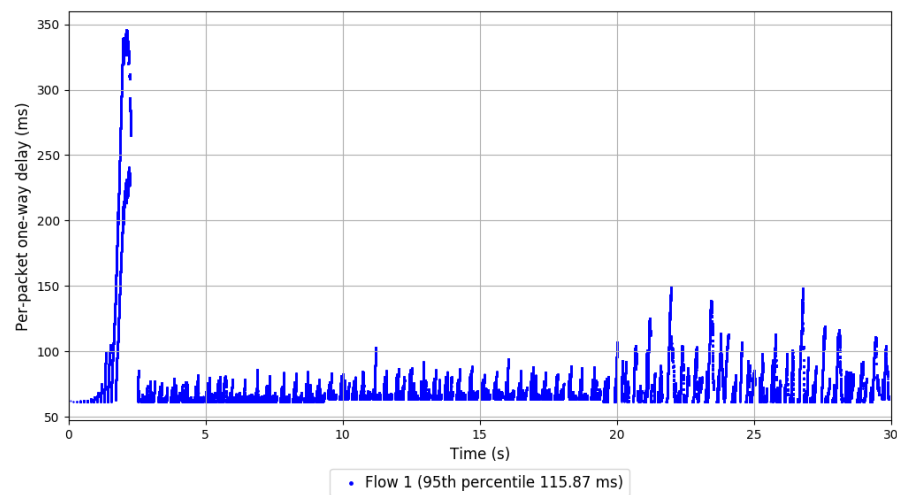
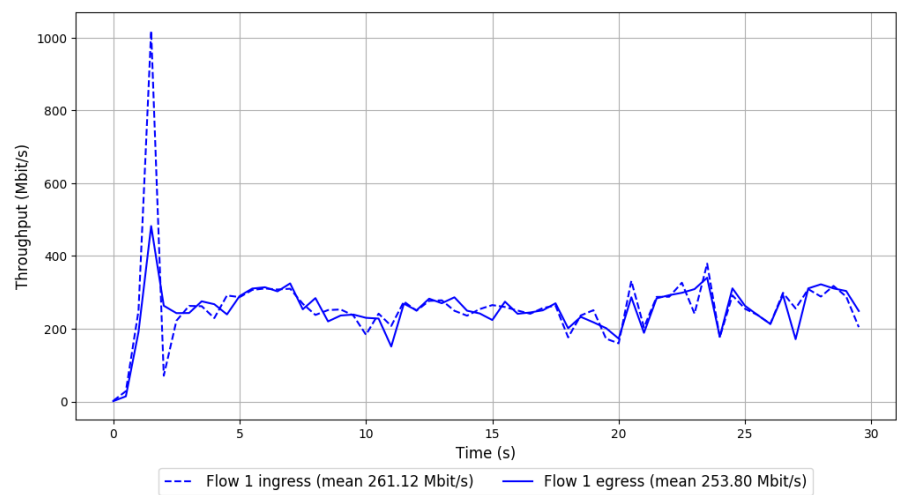
-- Flow 1:

Average throughput: 253.80 Mbit/s

95th percentile per-packet one-way delay: 115.873 ms

Loss rate: 2.80%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-01-09 10:02:52

End at: 2018-01-09 10:03:22

Below is generated by plot.py at 2018-01-09 11:38:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 222.89 Mbit/s

95th percentile per-packet one-way delay: 157.093 ms

Loss rate: 2.19%

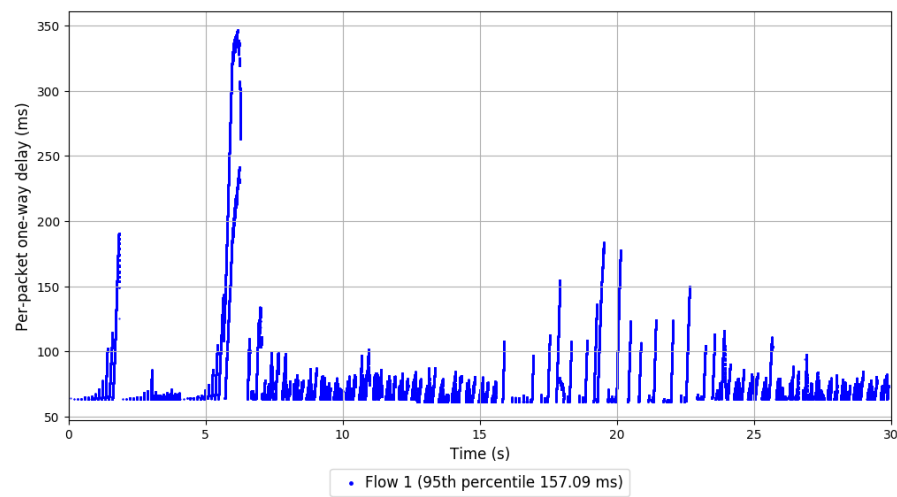
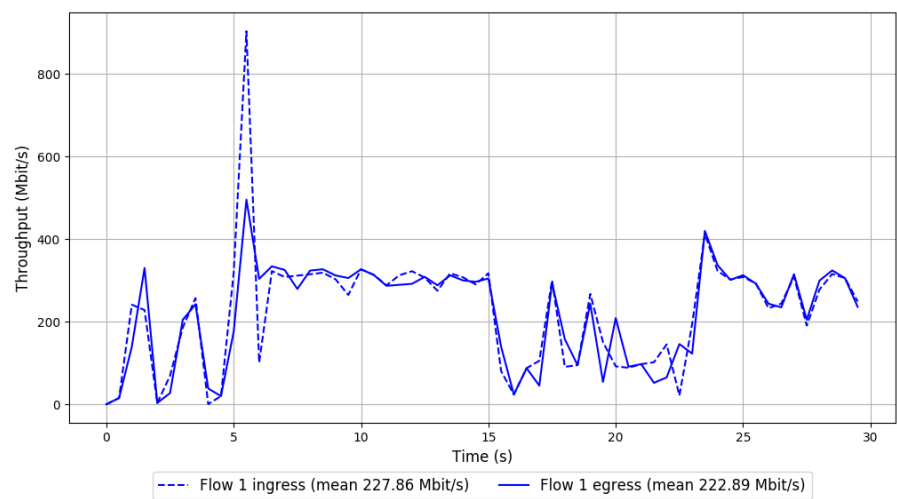
-- Flow 1:

Average throughput: 222.89 Mbit/s

95th percentile per-packet one-way delay: 157.093 ms

Loss rate: 2.19%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-01-09 10:14:22

End at: 2018-01-09 10:14:53

Below is generated by plot.py at 2018-01-09 11:38:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 192.44 Mbit/s

95th percentile per-packet one-way delay: 131.773 ms

Loss rate: 0.01%

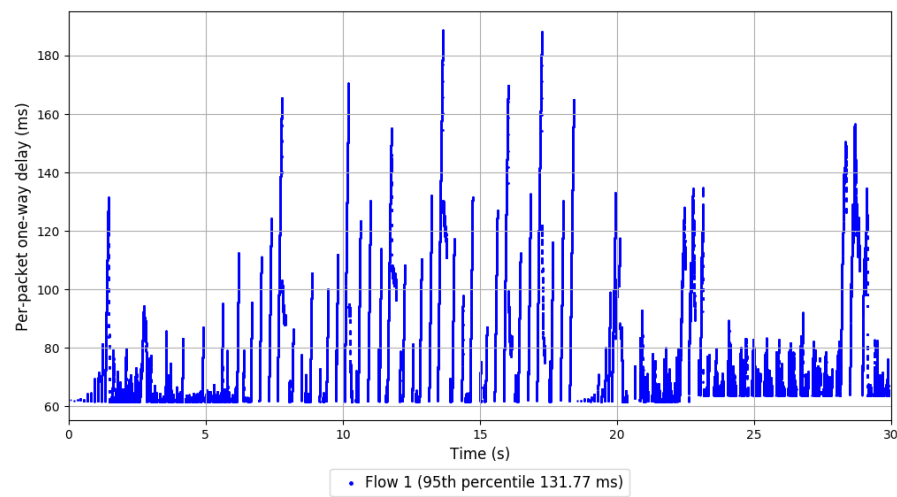
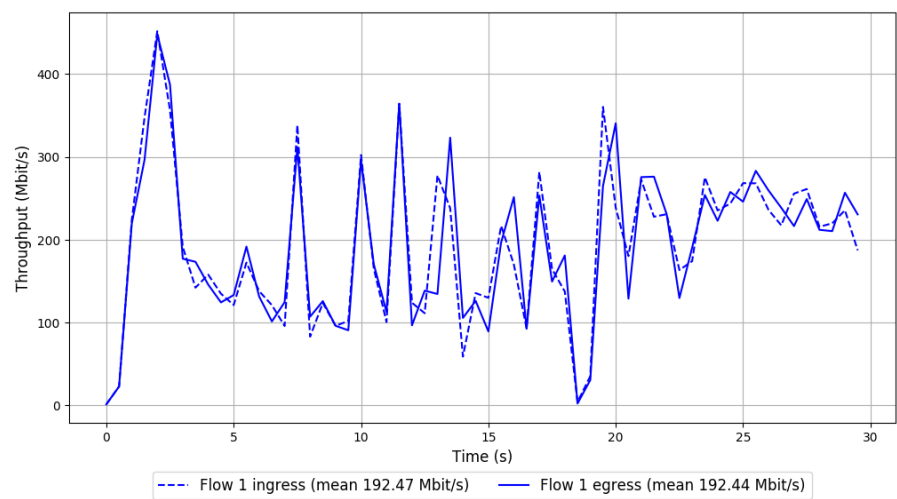
-- Flow 1:

Average throughput: 192.44 Mbit/s

95th percentile per-packet one-way delay: 131.773 ms

Loss rate: 0.01%

Run 10: Report of Verus — Data Link

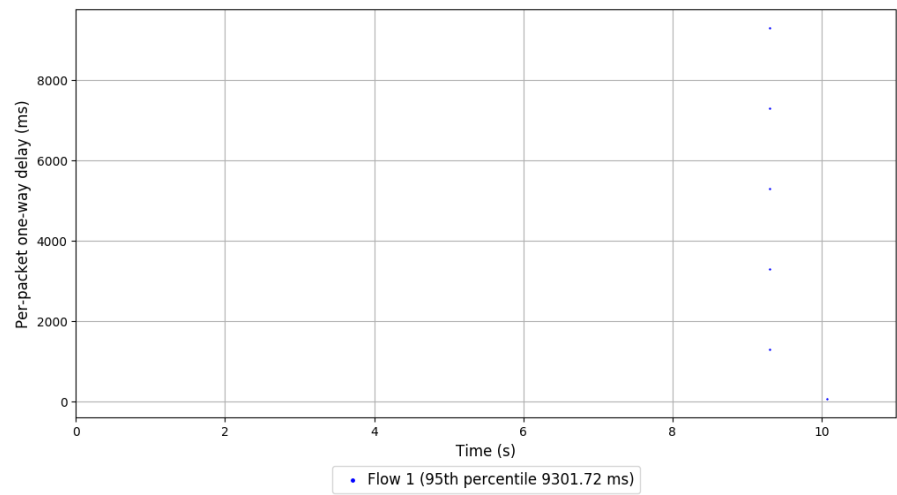
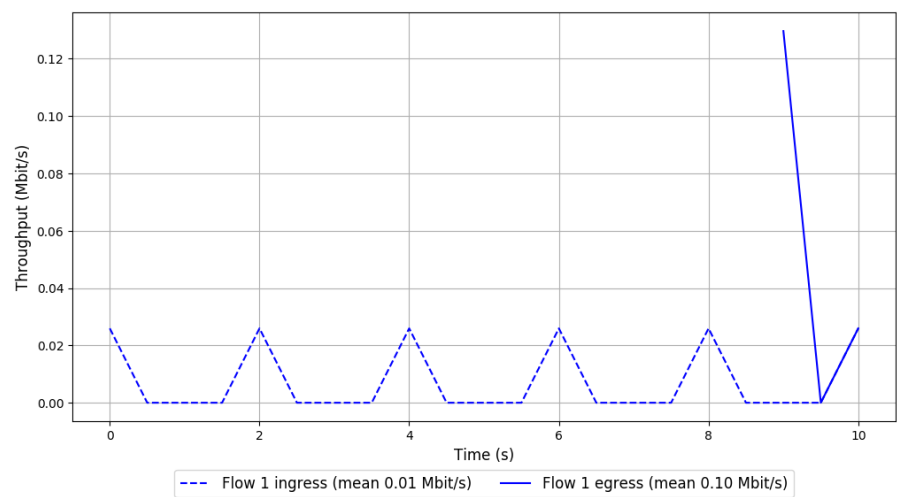


Run 1: Statistics of Copa

Start at: 2018-01-09 08:34:37

End at: 2018-01-09 08:35:07

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-01-09 08:46:01

End at: 2018-01-09 08:46:31

Below is generated by plot.py at 2018-01-09 11:38:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.50 Mbit/s

95th percentile per-packet one-way delay: 63.728 ms

Loss rate: 0.00%

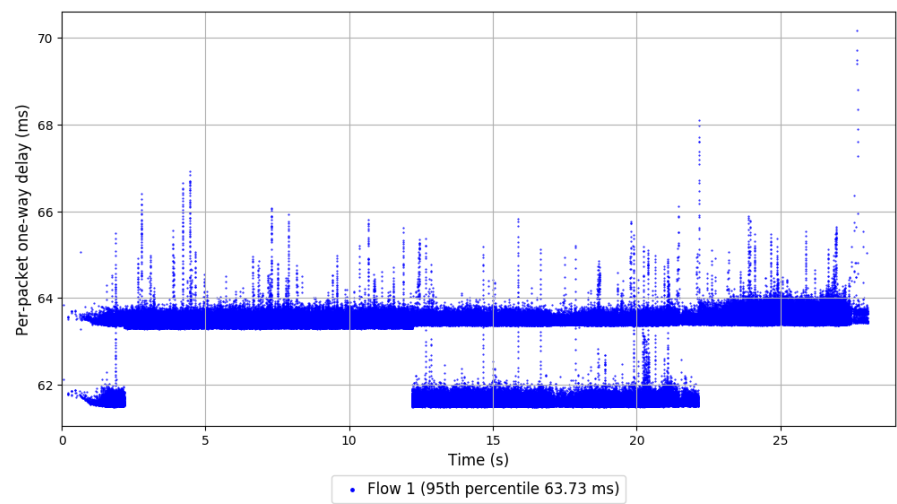
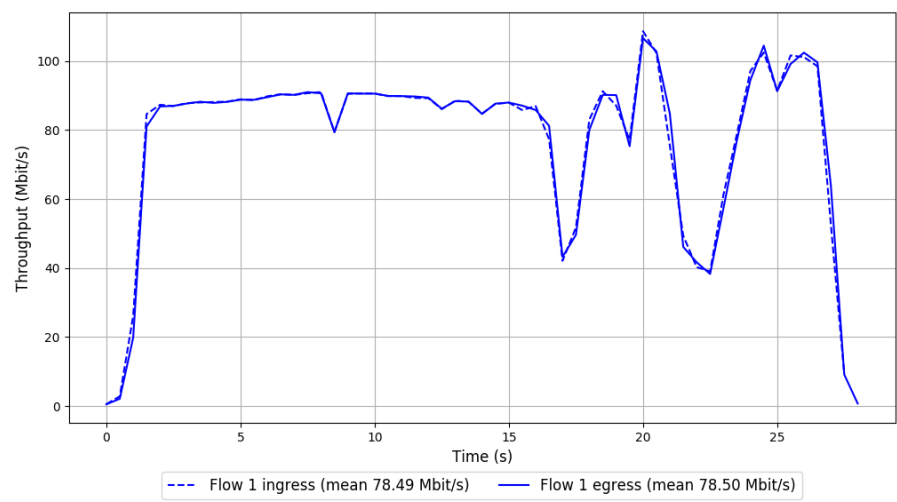
-- Flow 1:

Average throughput: 78.50 Mbit/s

95th percentile per-packet one-way delay: 63.728 ms

Loss rate: 0.00%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-01-09 08:56:58

End at: 2018-01-09 08:57:28

Below is generated by plot.py at 2018-01-09 11:38:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.21 Mbit/s

95th percentile per-packet one-way delay: 63.873 ms

Loss rate: 0.01%

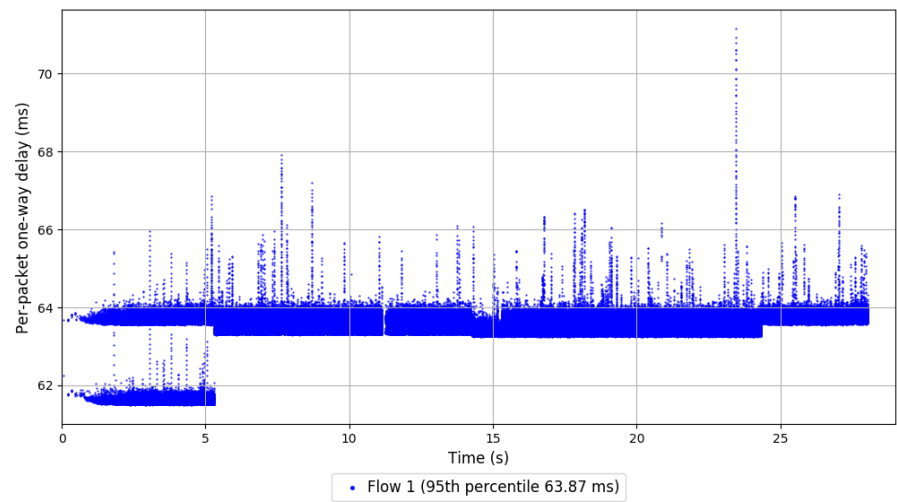
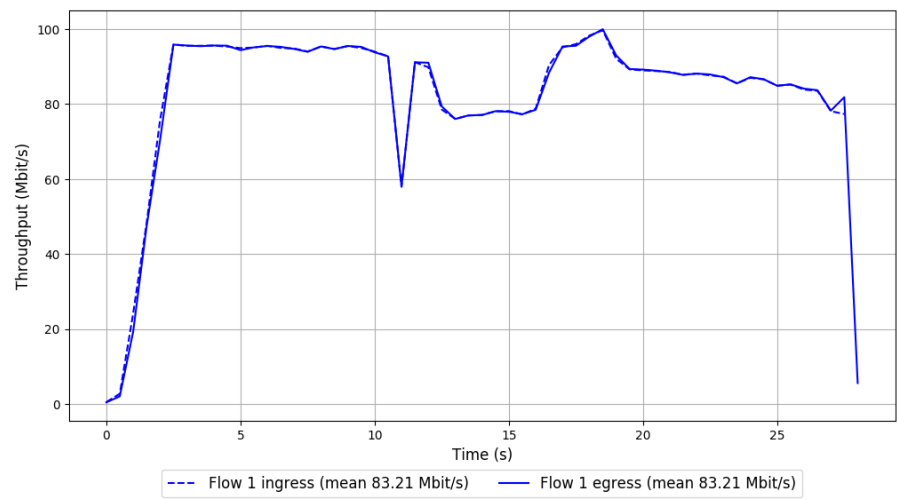
-- Flow 1:

Average throughput: 83.21 Mbit/s

95th percentile per-packet one-way delay: 63.873 ms

Loss rate: 0.01%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-01-09 09:08:27

End at: 2018-01-09 09:08:57

Below is generated by plot.py at 2018-01-09 11:38:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 62.39 Mbit/s

95th percentile per-packet one-way delay: 63.828 ms

Loss rate: 0.00%

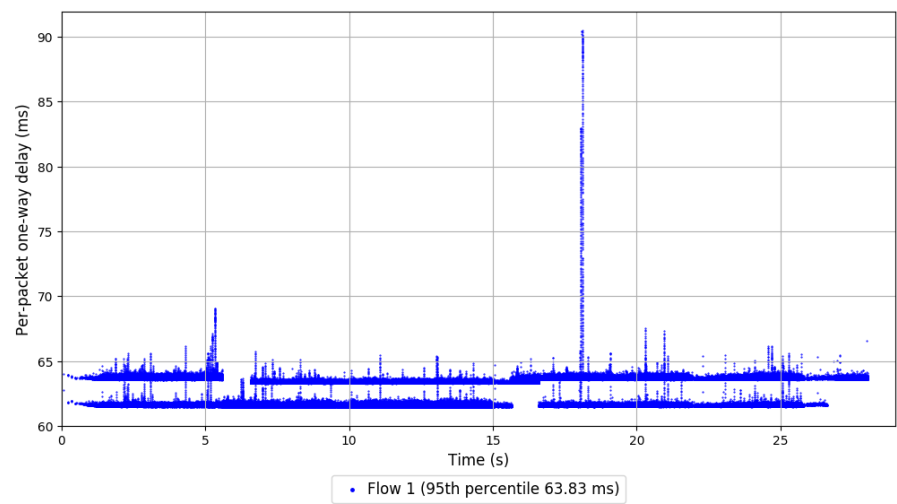
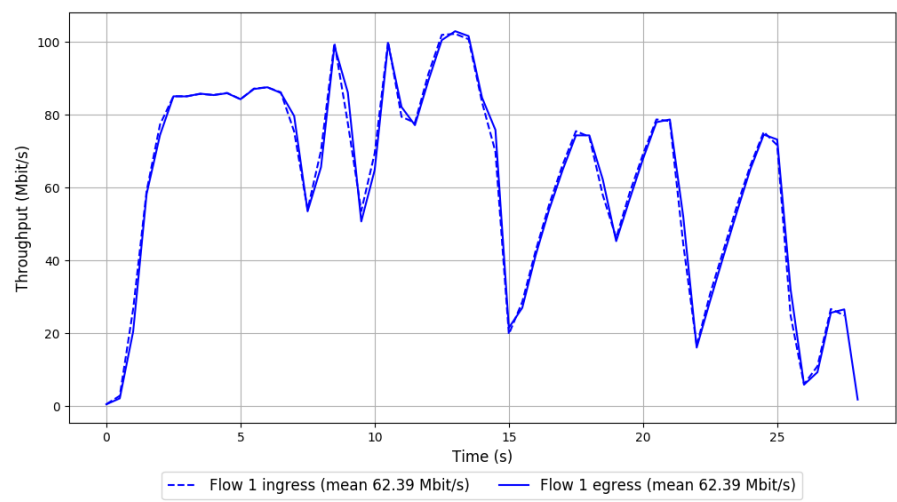
-- Flow 1:

Average throughput: 62.39 Mbit/s

95th percentile per-packet one-way delay: 63.828 ms

Loss rate: 0.00%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-01-09 09:20:07

End at: 2018-01-09 09:20:37

Below is generated by plot.py at 2018-01-09 11:38:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.08 Mbit/s

95th percentile per-packet one-way delay: 63.654 ms

Loss rate: 0.00%

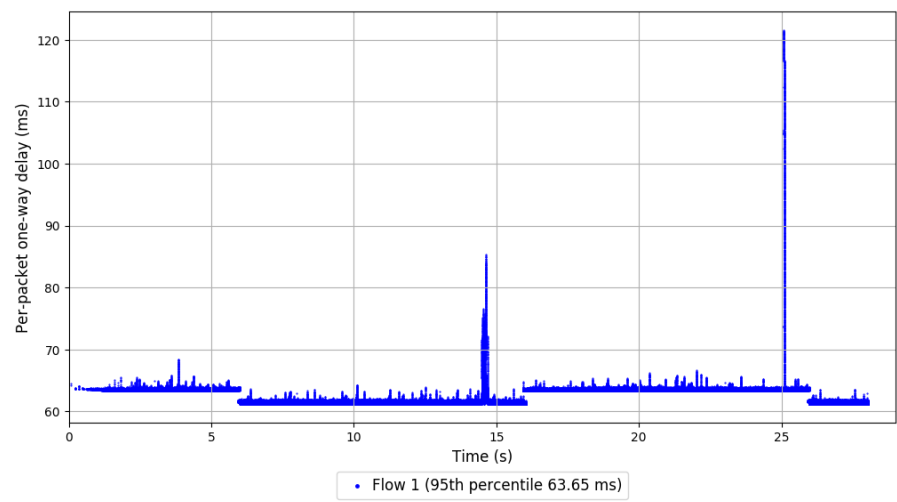
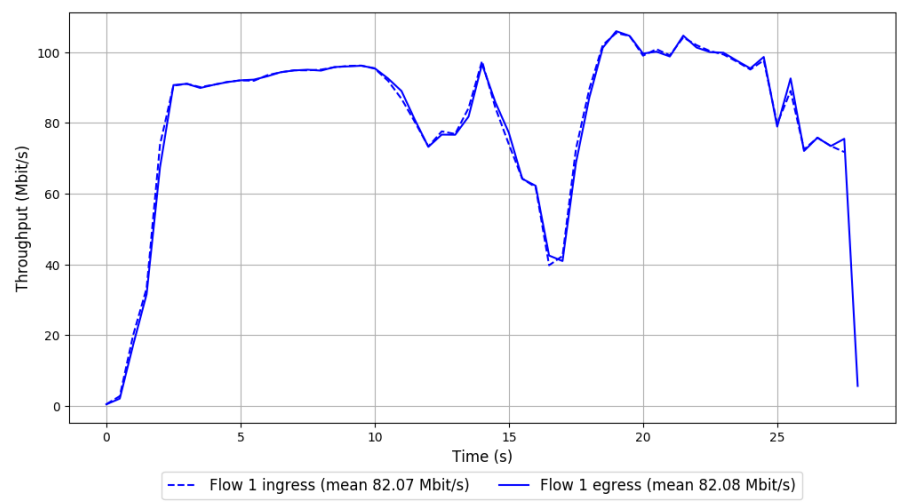
-- Flow 1:

Average throughput: 82.08 Mbit/s

95th percentile per-packet one-way delay: 63.654 ms

Loss rate: 0.00%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-01-09 09:31:57

End at: 2018-01-09 09:32:27

Below is generated by plot.py at 2018-01-09 11:38:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 76.71 Mbit/s

95th percentile per-packet one-way delay: 63.801 ms

Loss rate: 0.10%

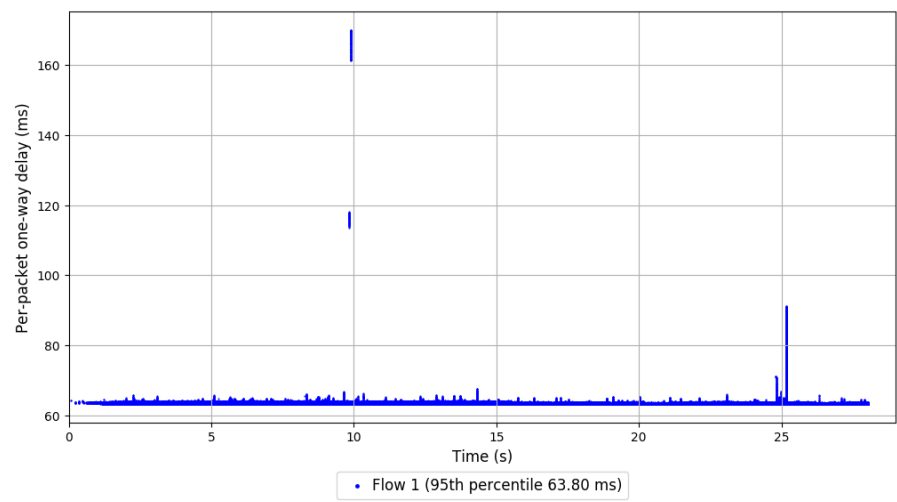
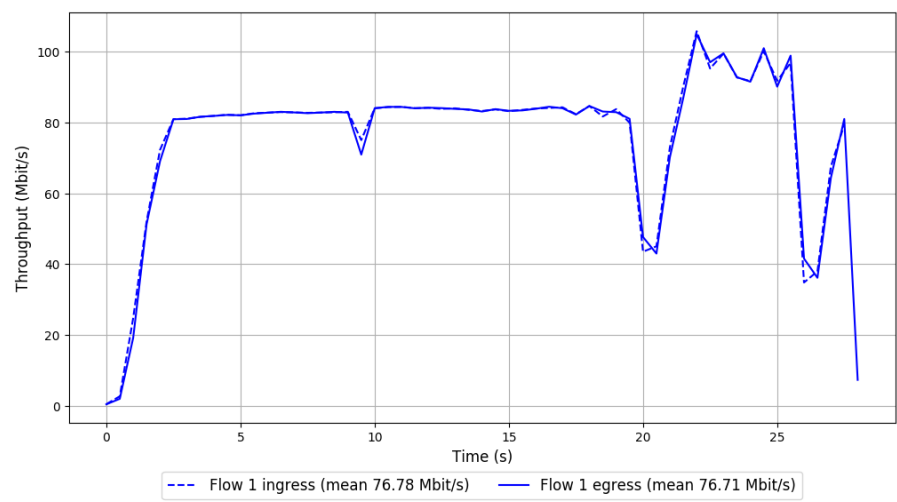
-- Flow 1:

Average throughput: 76.71 Mbit/s

95th percentile per-packet one-way delay: 63.801 ms

Loss rate: 0.10%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-01-09 09:43:43

End at: 2018-01-09 09:44:13

Below is generated by plot.py at 2018-01-09 11:38:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.19 Mbit/s

95th percentile per-packet one-way delay: 63.812 ms

Loss rate: 0.08%

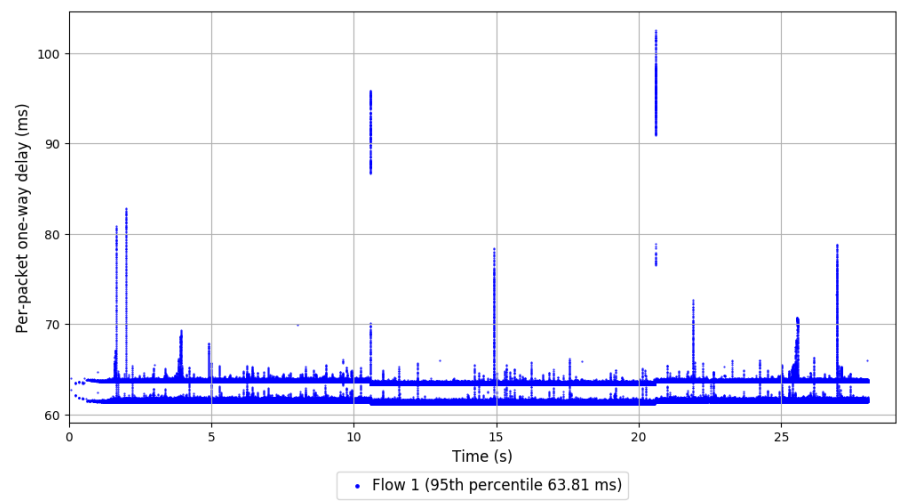
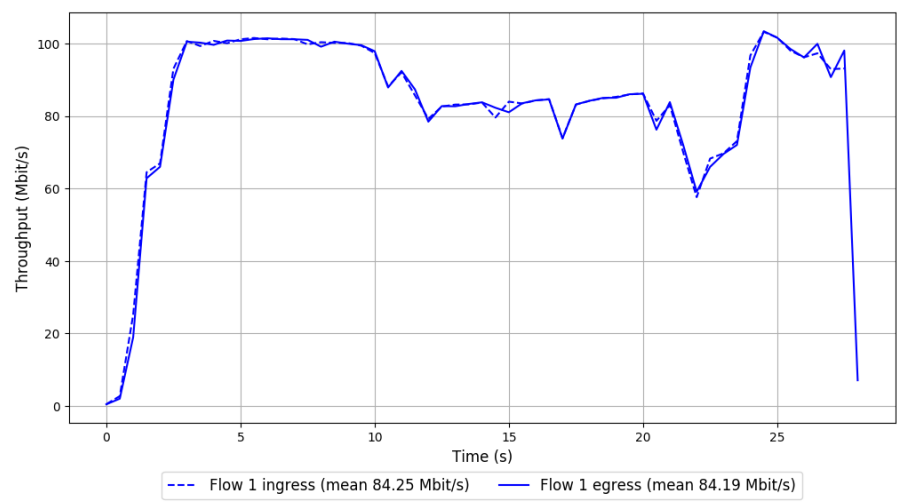
-- Flow 1:

Average throughput: 84.19 Mbit/s

95th percentile per-packet one-way delay: 63.812 ms

Loss rate: 0.08%

Run 7: Report of Copa — Data Link

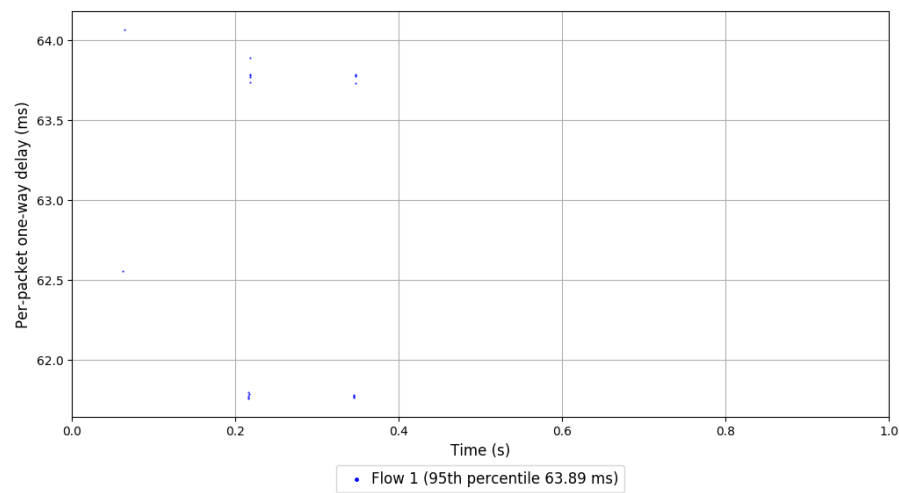
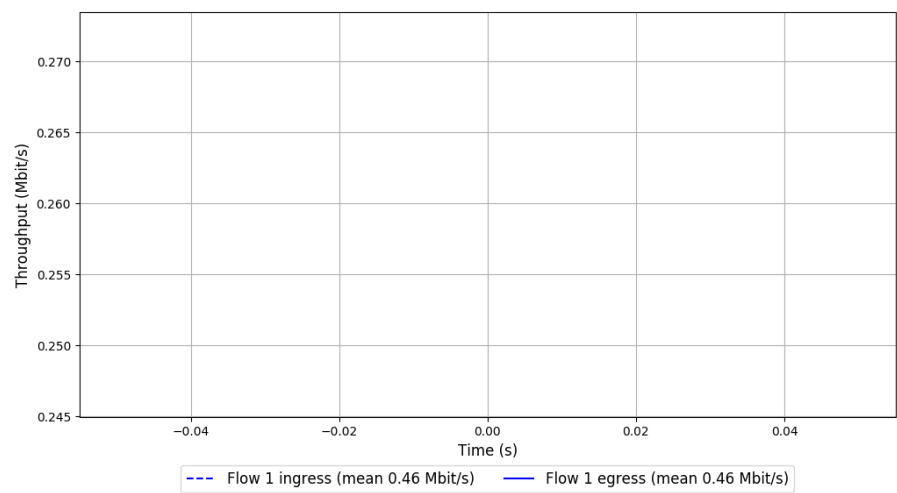


Run 8: Statistics of Copa

Start at: 2018-01-09 09:55:12

End at: 2018-01-09 09:55:42

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-01-09 10:06:35

End at: 2018-01-09 10:07:05

Below is generated by plot.py at 2018-01-09 11:39:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.82 Mbit/s

95th percentile per-packet one-way delay: 63.775 ms

Loss rate: 0.00%

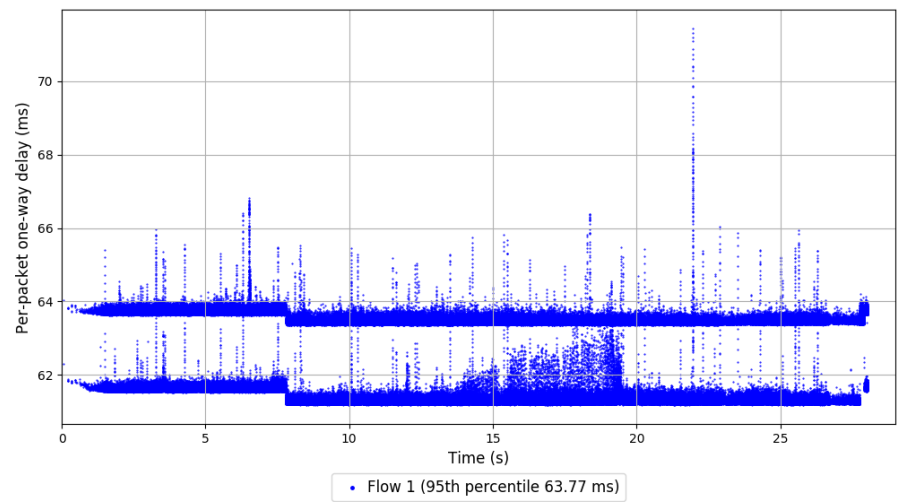
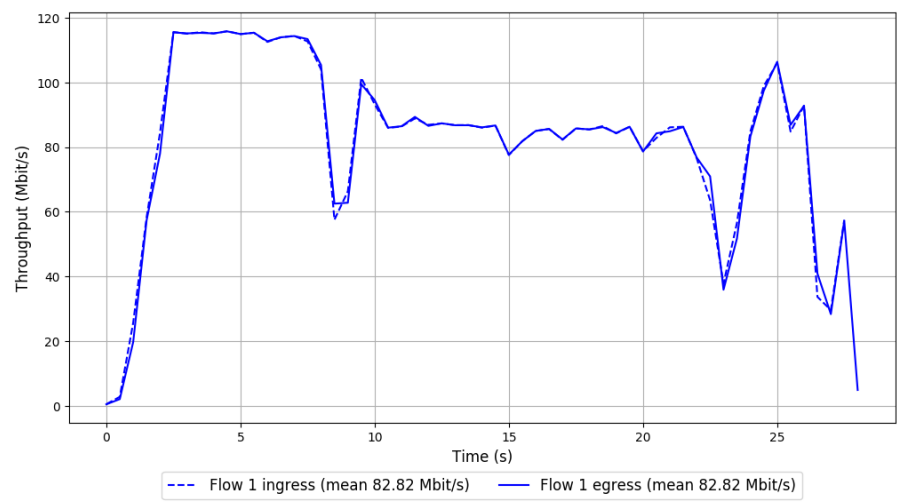
-- Flow 1:

Average throughput: 82.82 Mbit/s

95th percentile per-packet one-way delay: 63.775 ms

Loss rate: 0.00%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-01-09 10:18:13

End at: 2018-01-09 10:18:43

Below is generated by plot.py at 2018-01-09 11:39:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.70 Mbit/s

95th percentile per-packet one-way delay: 63.908 ms

Loss rate: 0.00%

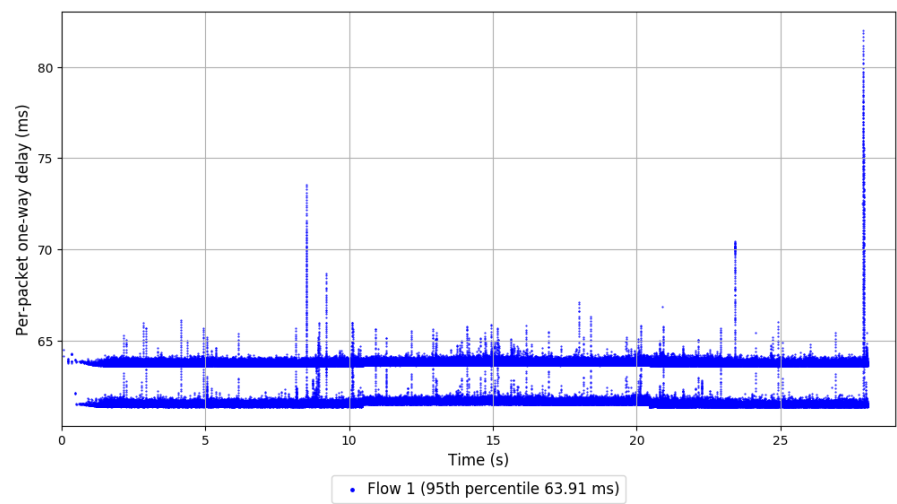
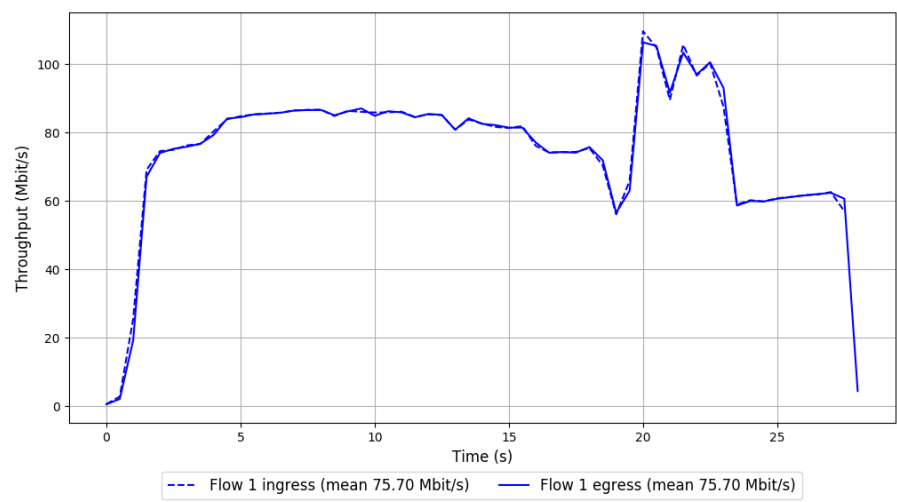
-- Flow 1:

Average throughput: 75.70 Mbit/s

95th percentile per-packet one-way delay: 63.908 ms

Loss rate: 0.00%

Run 10: Report of Copa — Data Link



Run 1: Statistics of FillP

Start at: 2018-01-09 08:35:15

End at: 2018-01-09 08:35:45

Below is generated by plot.py at 2018-01-09 11:53:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 892.42 Mbit/s

95th percentile per-packet one-way delay: 296.240 ms

Loss rate: 7.09%

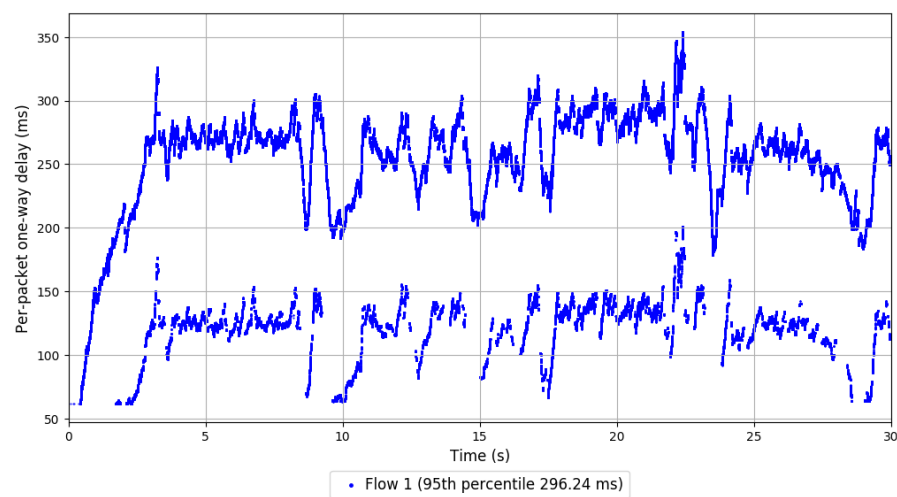
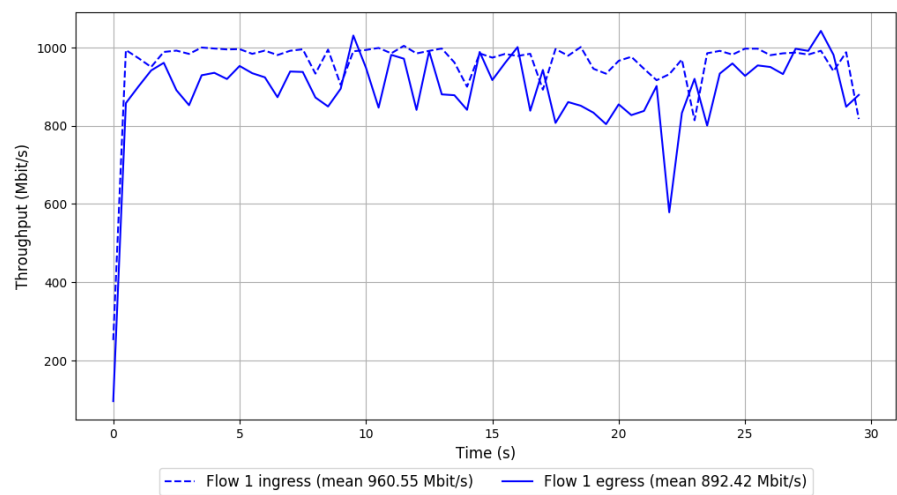
-- Flow 1:

Average throughput: 892.42 Mbit/s

95th percentile per-packet one-way delay: 296.240 ms

Loss rate: 7.09%

Run 1: Report of FillP — Data Link

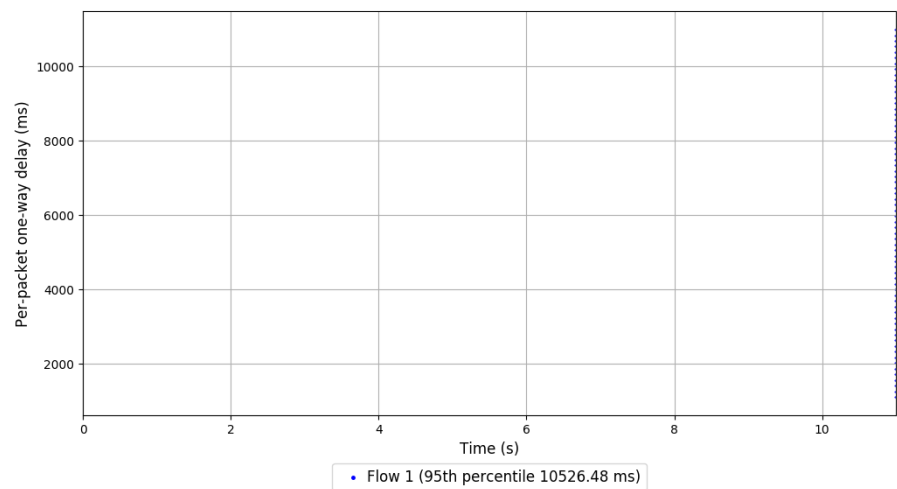
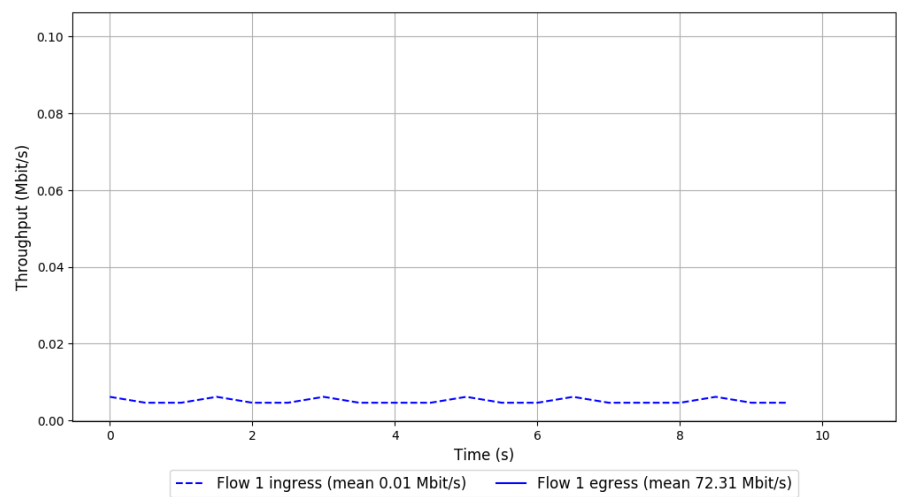


Run 2: Statistics of FillP

Start at: 2018-01-09 08:46:46

End at: 2018-01-09 08:47:16

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-01-09 08:57:43

End at: 2018-01-09 08:58:14

Below is generated by plot.py at 2018-01-09 11:53:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 844.78 Mbit/s

95th percentile per-packet one-way delay: 301.951 ms

Loss rate: 10.42%

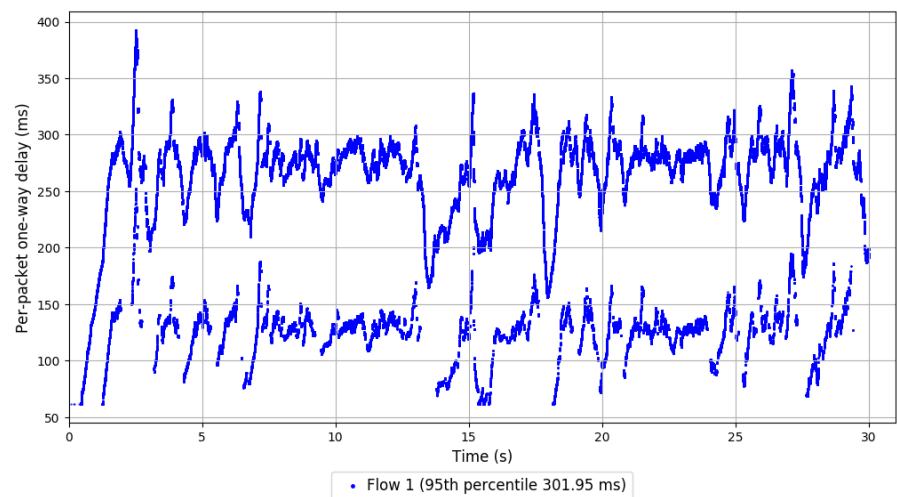
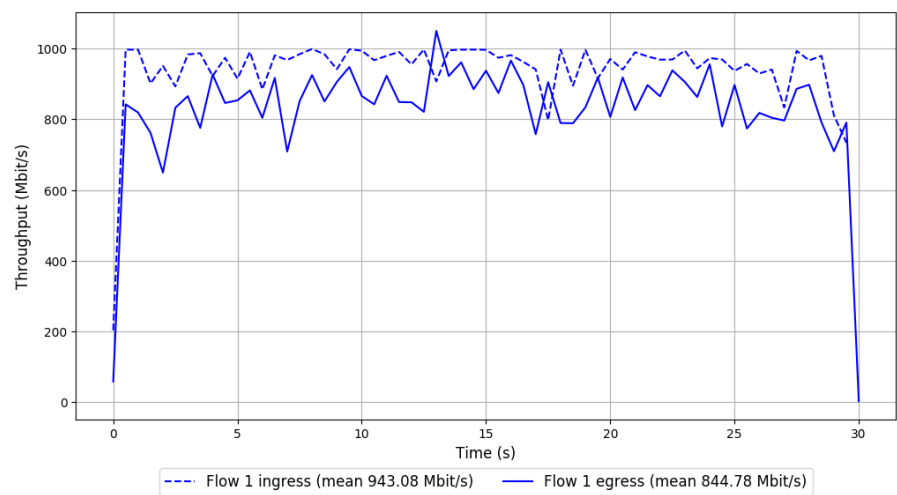
-- Flow 1:

Average throughput: 844.78 Mbit/s

95th percentile per-packet one-way delay: 301.951 ms

Loss rate: 10.42%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-01-09 09:09:10

End at: 2018-01-09 09:09:41

Below is generated by plot.py at 2018-01-09 11:53:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 934.11 Mbit/s

95th percentile per-packet one-way delay: 269.517 ms

Loss rate: 3.06%

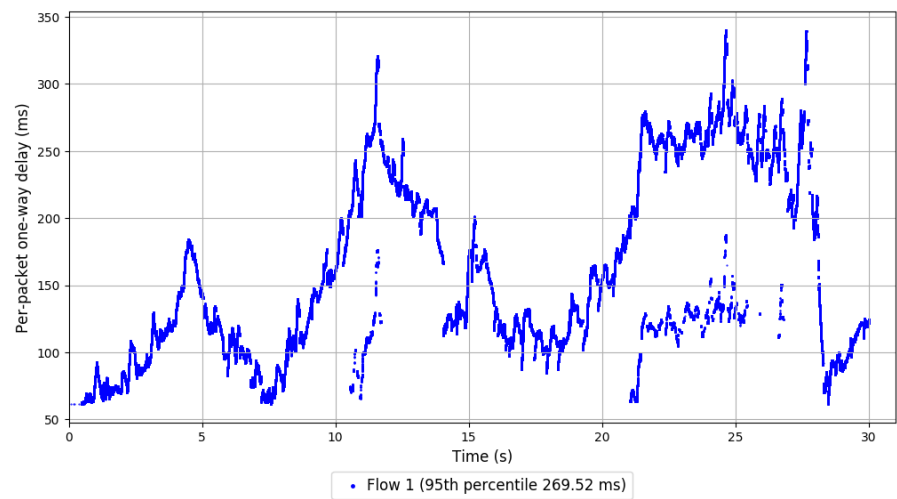
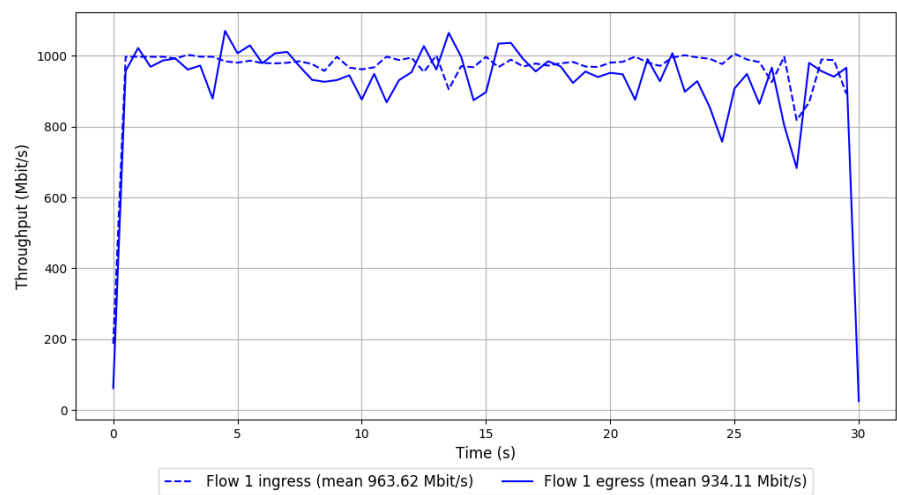
-- Flow 1:

Average throughput: 934.11 Mbit/s

95th percentile per-packet one-way delay: 269.517 ms

Loss rate: 3.06%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-01-09 09:20:53

End at: 2018-01-09 09:21:23

Below is generated by plot.py at 2018-01-09 11:53:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 921.89 Mbit/s

95th percentile per-packet one-way delay: 276.268 ms

Loss rate: 3.81%

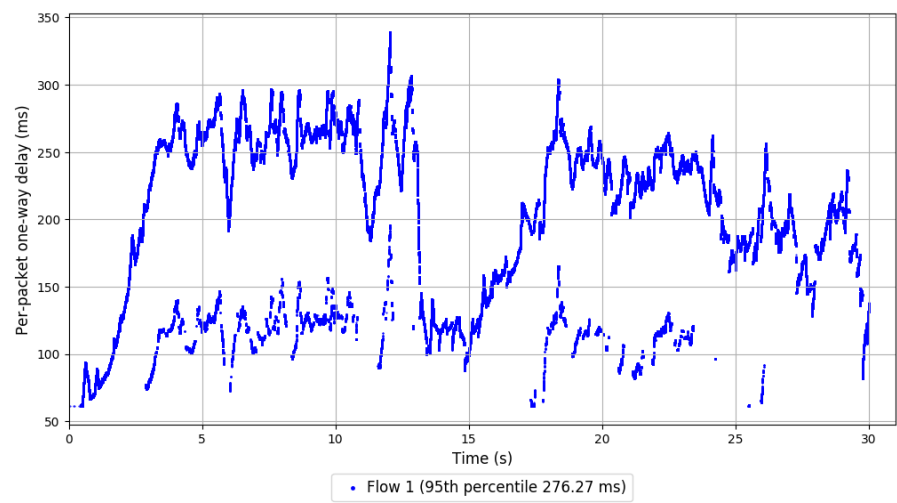
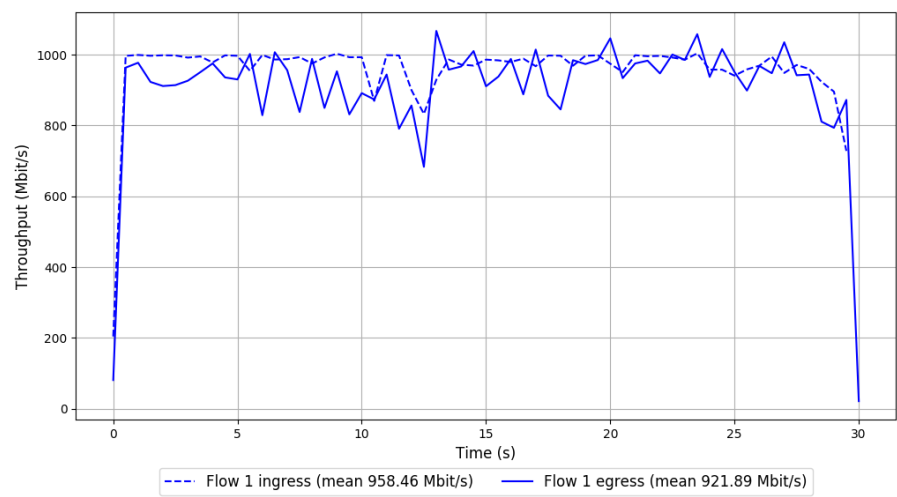
-- Flow 1:

Average throughput: 921.89 Mbit/s

95th percentile per-packet one-way delay: 276.268 ms

Loss rate: 3.81%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-01-09 09:32:42

End at: 2018-01-09 09:33:12

Below is generated by plot.py at 2018-01-09 11:53:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 909.65 Mbit/s

95th percentile per-packet one-way delay: 294.569 ms

Loss rate: 5.35%

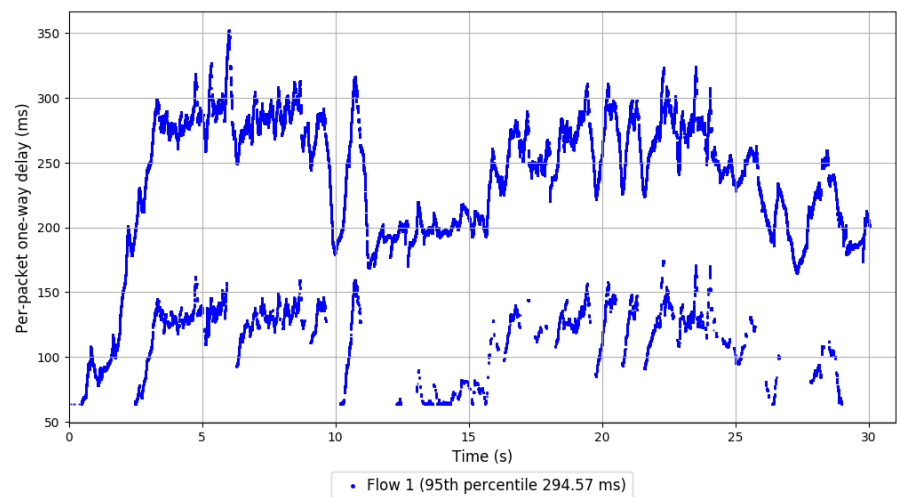
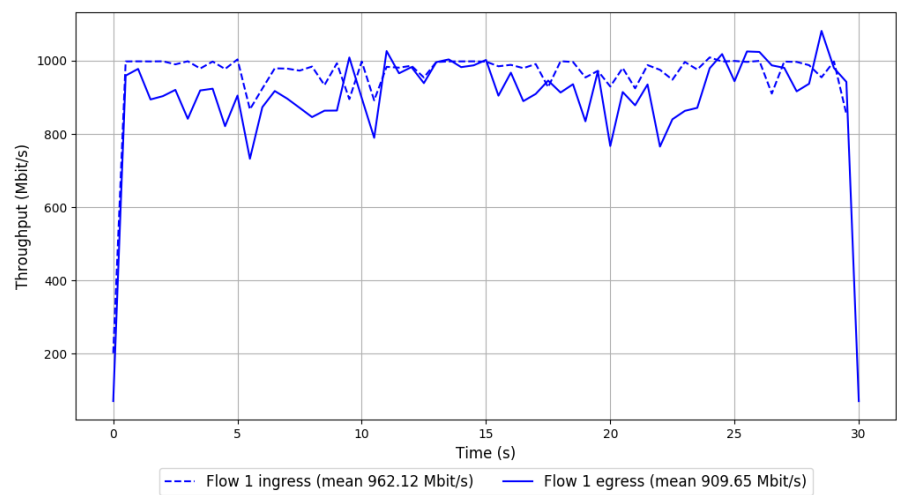
-- Flow 1:

Average throughput: 909.65 Mbit/s

95th percentile per-packet one-way delay: 294.569 ms

Loss rate: 5.35%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-01-09 09:44:28

End at: 2018-01-09 09:44:58

Below is generated by plot.py at 2018-01-09 11:53:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 923.11 Mbit/s

95th percentile per-packet one-way delay: 284.001 ms

Loss rate: 4.73%

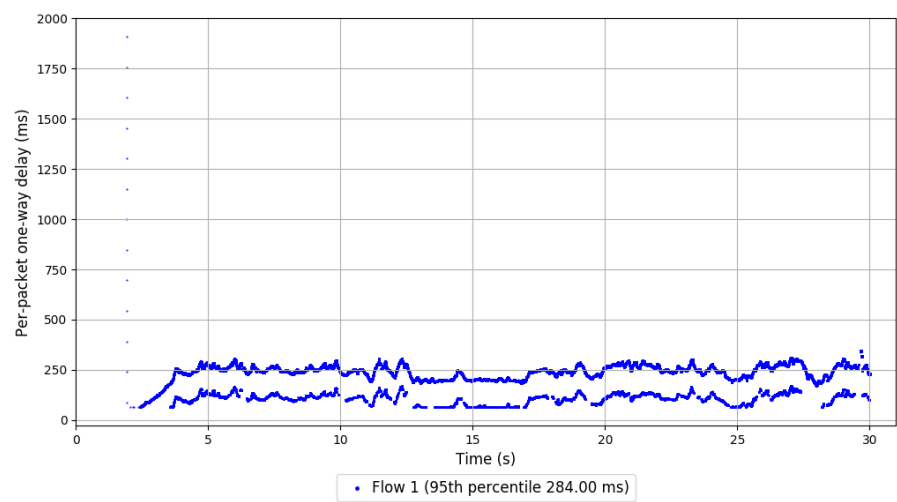
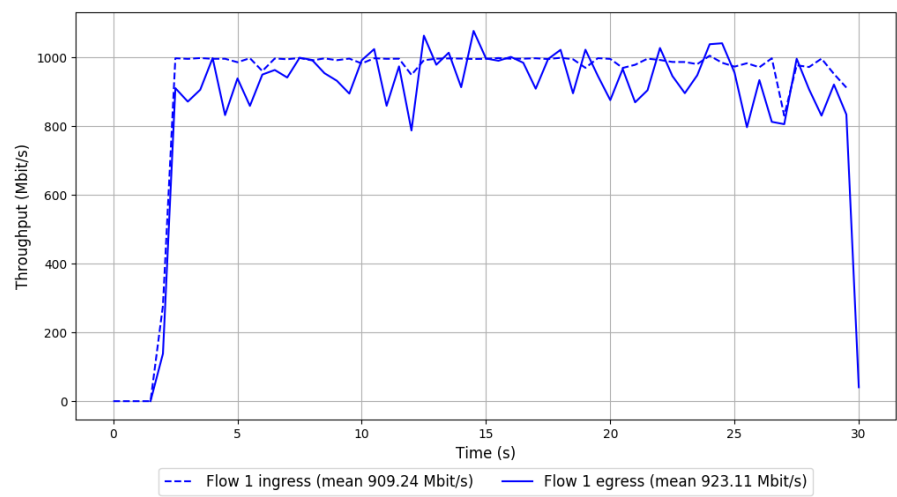
-- Flow 1:

Average throughput: 923.11 Mbit/s

95th percentile per-packet one-way delay: 284.001 ms

Loss rate: 4.73%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-01-09 09:55:49

End at: 2018-01-09 09:56:19

Below is generated by plot.py at 2018-01-09 11:55:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 948.52 Mbit/s

95th percentile per-packet one-way delay: 266.744 ms

Loss rate: 2.05%

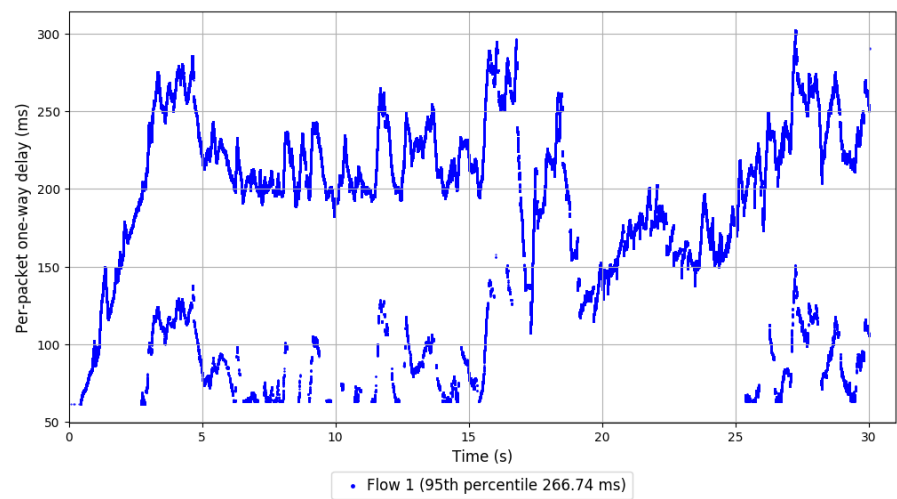
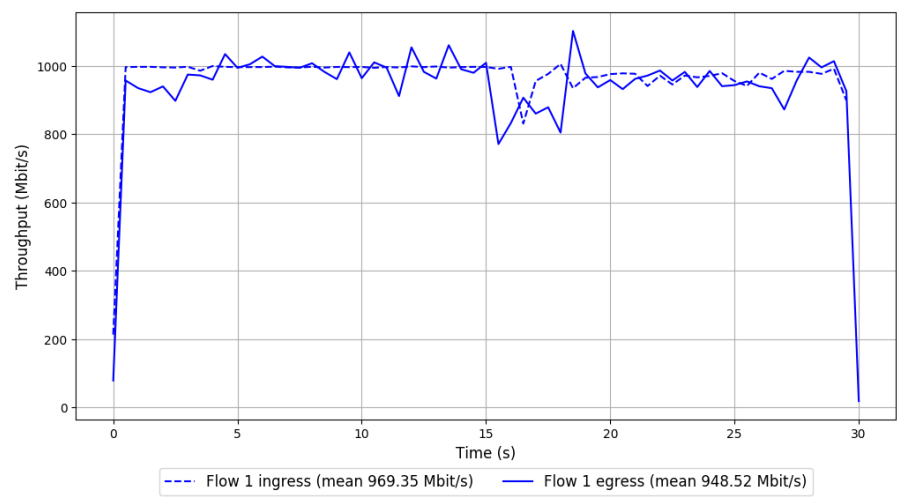
-- Flow 1:

Average throughput: 948.52 Mbit/s

95th percentile per-packet one-way delay: 266.744 ms

Loss rate: 2.05%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-01-09 10:07:21

End at: 2018-01-09 10:07:51

Below is generated by plot.py at 2018-01-09 11:55:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 856.71 Mbit/s

95th percentile per-packet one-way delay: 318.069 ms

Loss rate: 9.02%

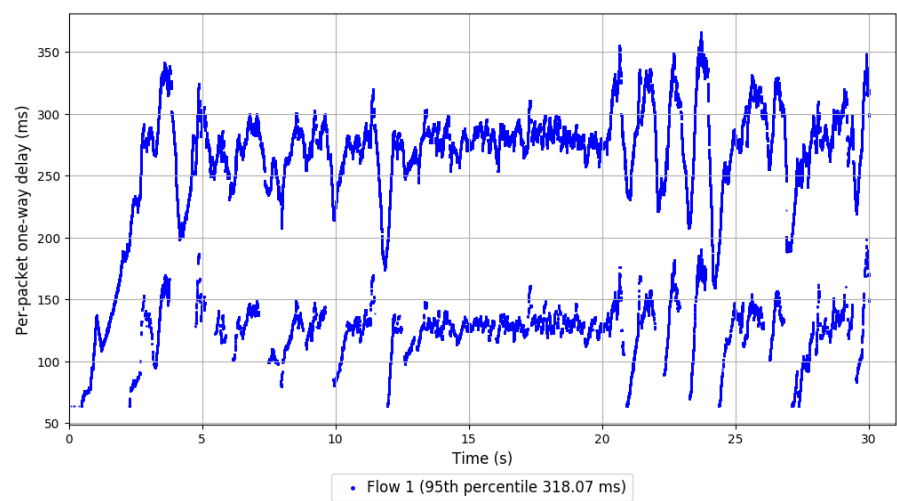
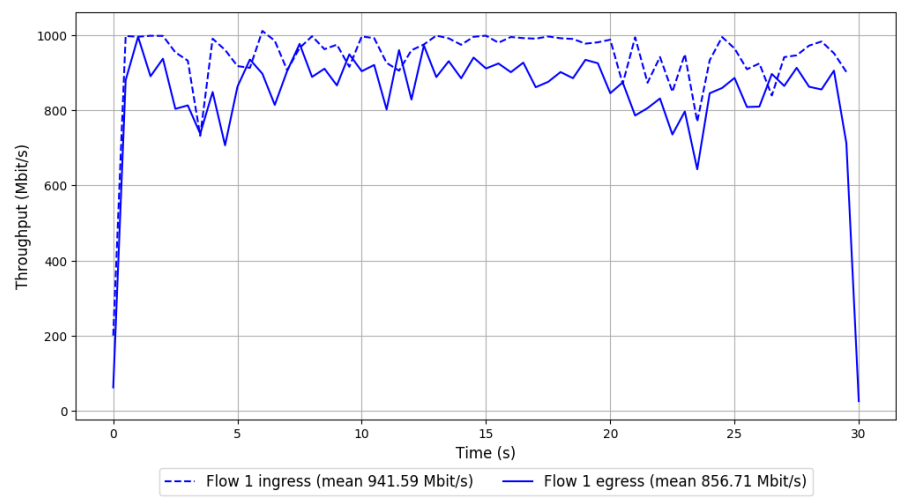
-- Flow 1:

Average throughput: 856.71 Mbit/s

95th percentile per-packet one-way delay: 318.069 ms

Loss rate: 9.02%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-01-09 10:18:58

End at: 2018-01-09 10:19:28

Below is generated by plot.py at 2018-01-09 11:58:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 893.12 Mbit/s

95th percentile per-packet one-way delay: 286.063 ms

Loss rate: 6.22%

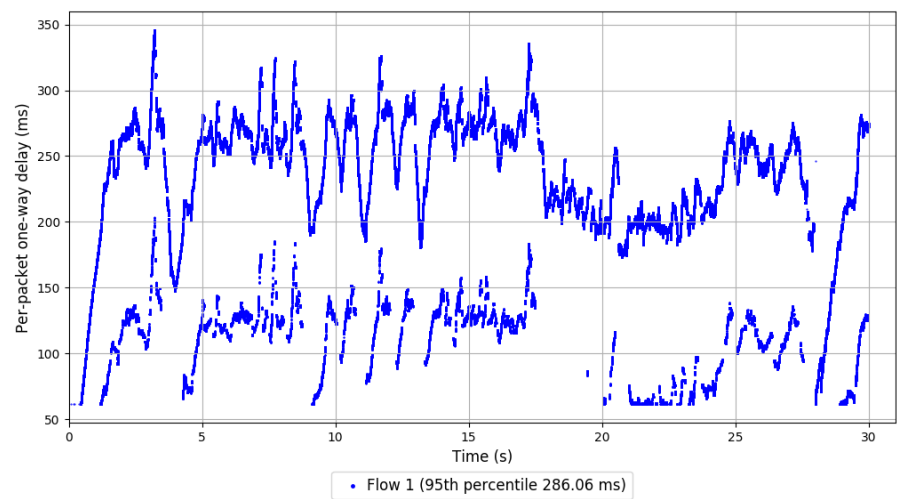
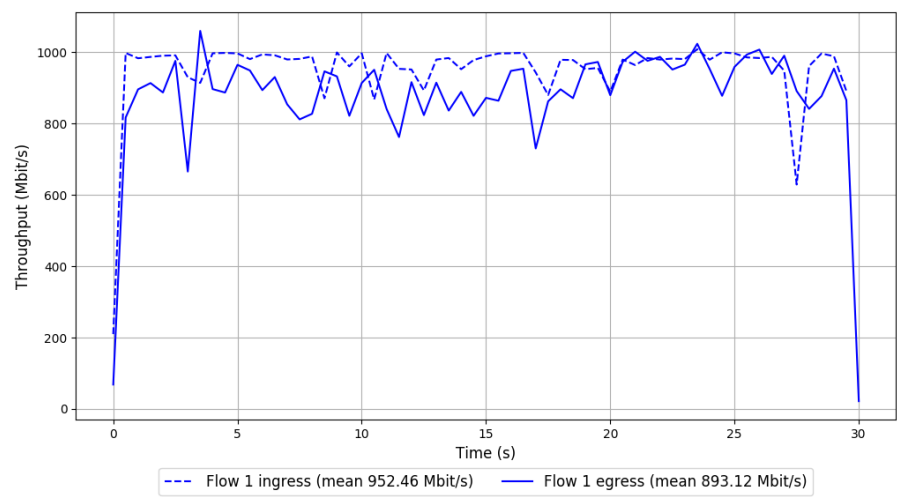
-- Flow 1:

Average throughput: 893.12 Mbit/s

95th percentile per-packet one-way delay: 286.063 ms

Loss rate: 6.22%

Run 10: Report of FillP — Data Link

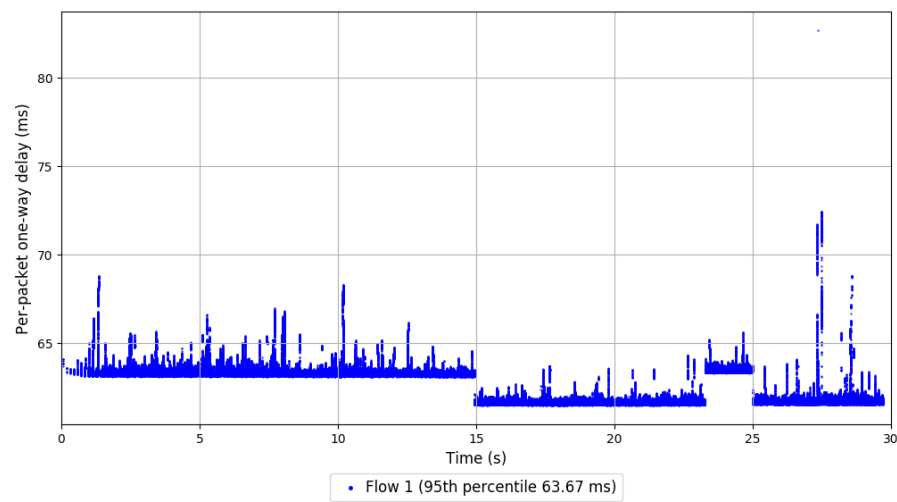
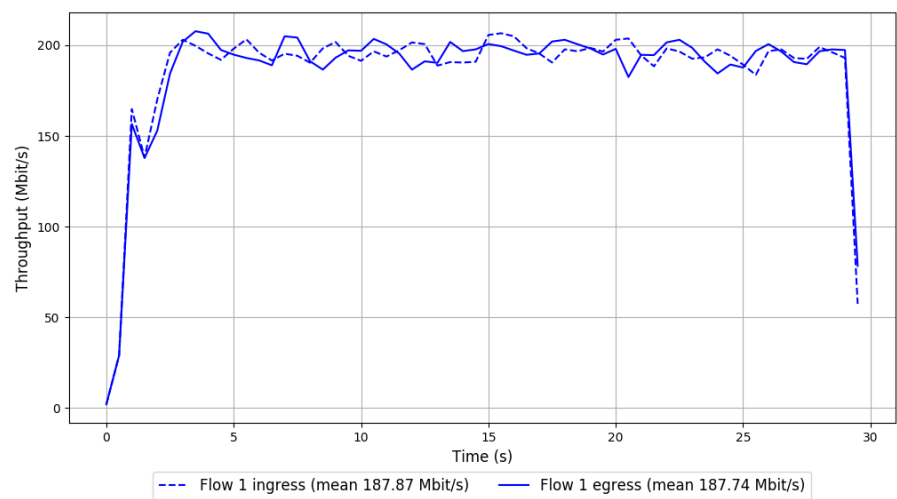


```
Run 1: Statistics of Indigo

Start at: 2018-01-09 08:39:10
End at: 2018-01-09 08:39:40

# Below is generated by plot.py at 2018-01-09 11:58:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 187.74 Mbit/s
95th percentile per-packet one-way delay: 63.673 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 187.74 Mbit/s
95th percentile per-packet one-way delay: 63.673 ms
Loss rate: 0.08%
```

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2018-01-09 08:50:00

End at: 2018-01-09 08:50:30

Below is generated by plot.py at 2018-01-09 11:58:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 181.77 Mbit/s

95th percentile per-packet one-way delay: 64.165 ms

Loss rate: 0.07%

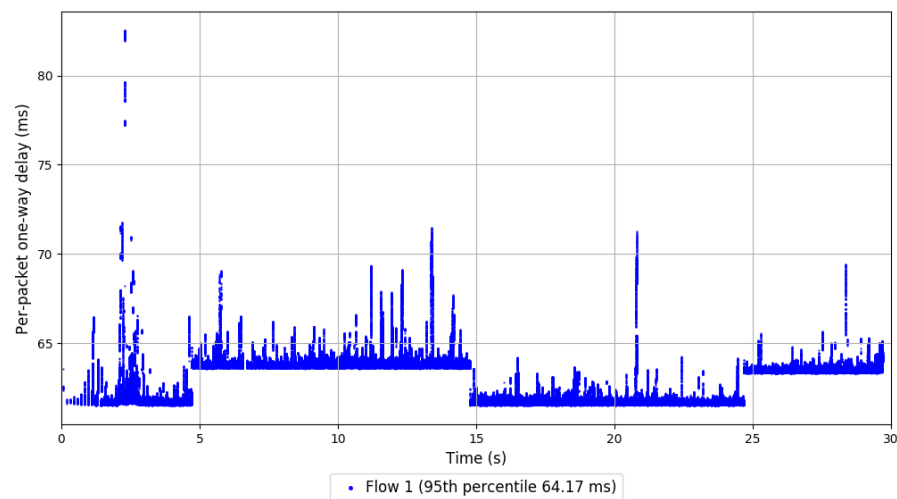
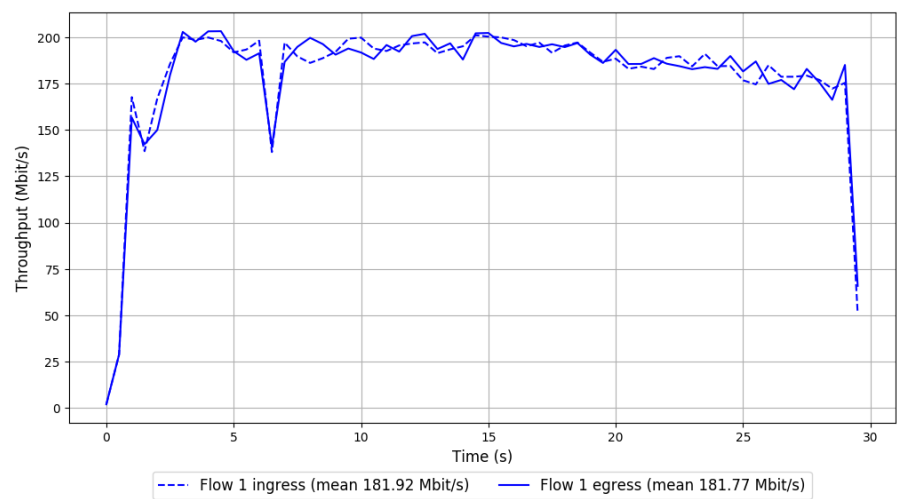
-- Flow 1:

Average throughput: 181.77 Mbit/s

95th percentile per-packet one-way delay: 64.165 ms

Loss rate: 0.07%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2018-01-09 09:01:39

End at: 2018-01-09 09:02:10

Below is generated by plot.py at 2018-01-09 11:58:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 181.67 Mbit/s

95th percentile per-packet one-way delay: 64.058 ms

Loss rate: 0.00%

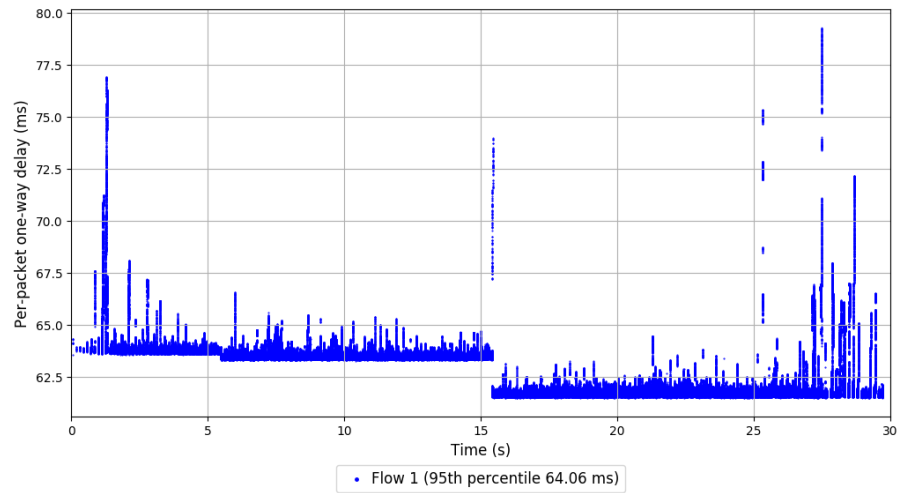
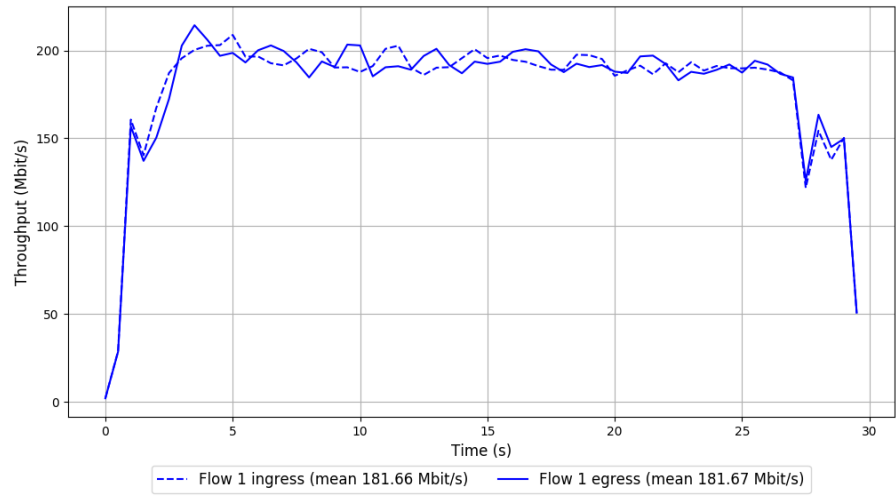
-- Flow 1:

Average throughput: 181.67 Mbit/s

95th percentile per-packet one-way delay: 64.058 ms

Loss rate: 0.00%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2018-01-09 09:13:03

End at: 2018-01-09 09:13:33

Below is generated by plot.py at 2018-01-09 11:58:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 179.71 Mbit/s

95th percentile per-packet one-way delay: 63.900 ms

Loss rate: 0.01%

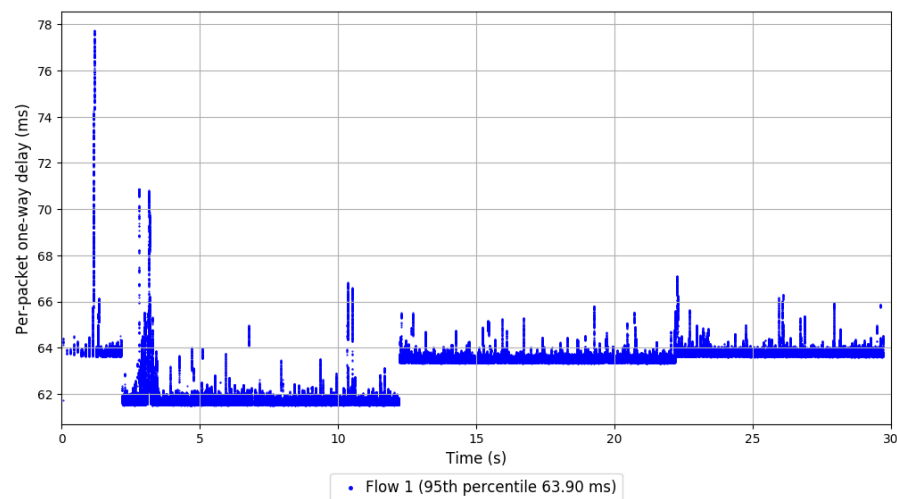
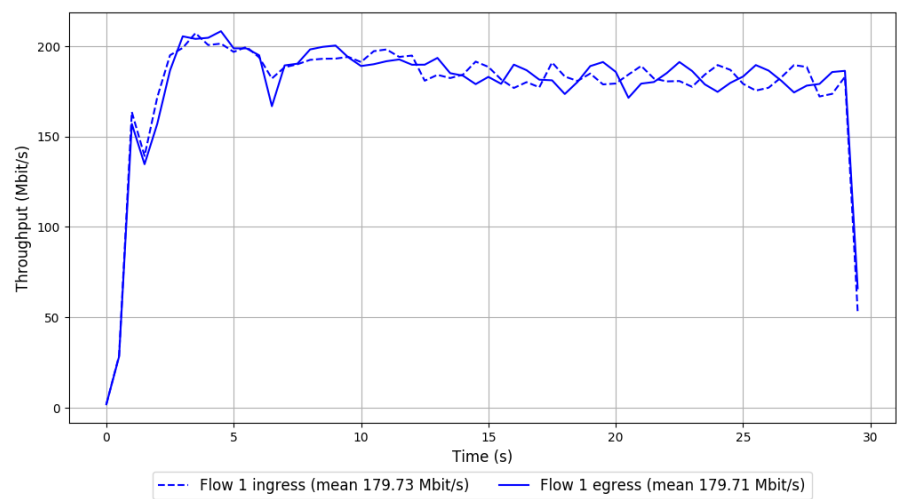
-- Flow 1:

Average throughput: 179.71 Mbit/s

95th percentile per-packet one-way delay: 63.900 ms

Loss rate: 0.01%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2018-01-09 09:24:48

End at: 2018-01-09 09:25:18

Below is generated by plot.py at 2018-01-09 11:58:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 185.45 Mbit/s

95th percentile per-packet one-way delay: 64.070 ms

Loss rate: 0.16%

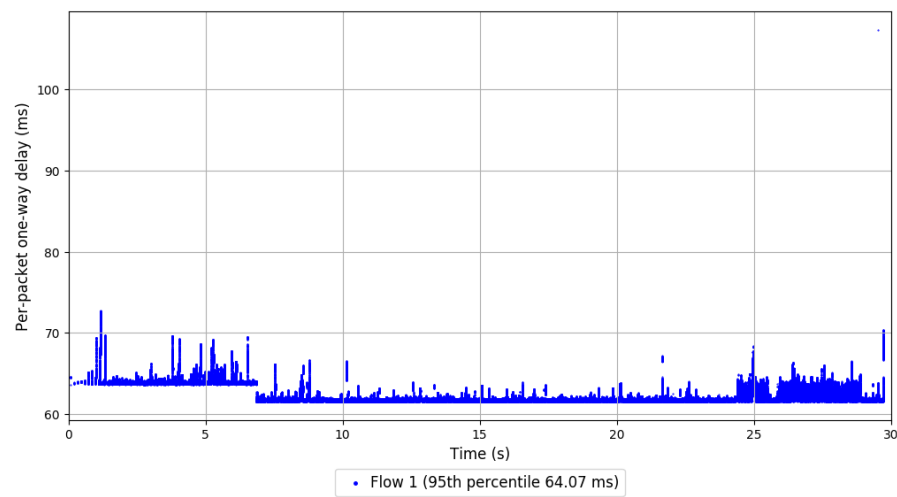
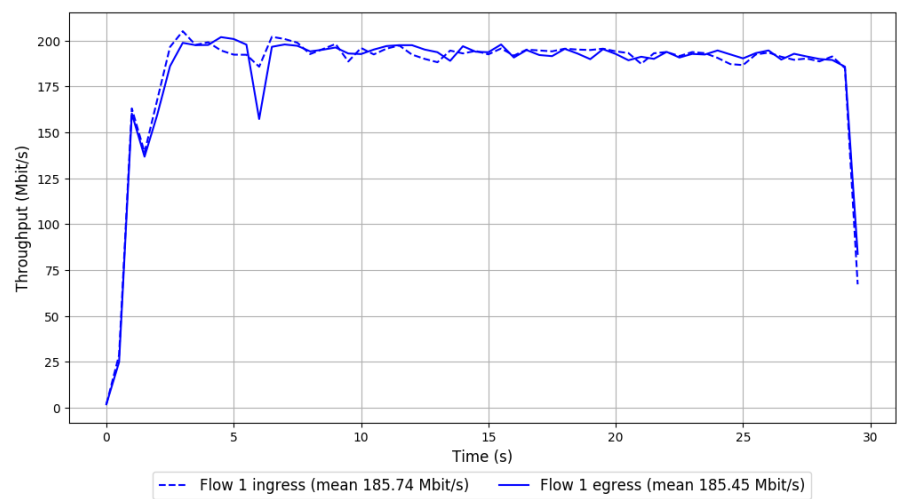
-- Flow 1:

Average throughput: 185.45 Mbit/s

95th percentile per-packet one-way delay: 64.070 ms

Loss rate: 0.16%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2018-01-09 09:36:39

End at: 2018-01-09 09:37:09

Below is generated by plot.py at 2018-01-09 11:58:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 190.40 Mbit/s

95th percentile per-packet one-way delay: 64.268 ms

Loss rate: 0.01%

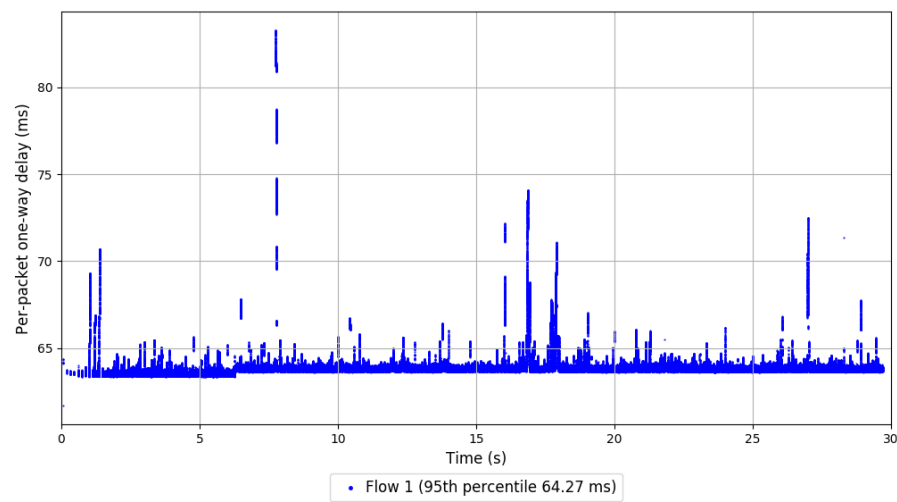
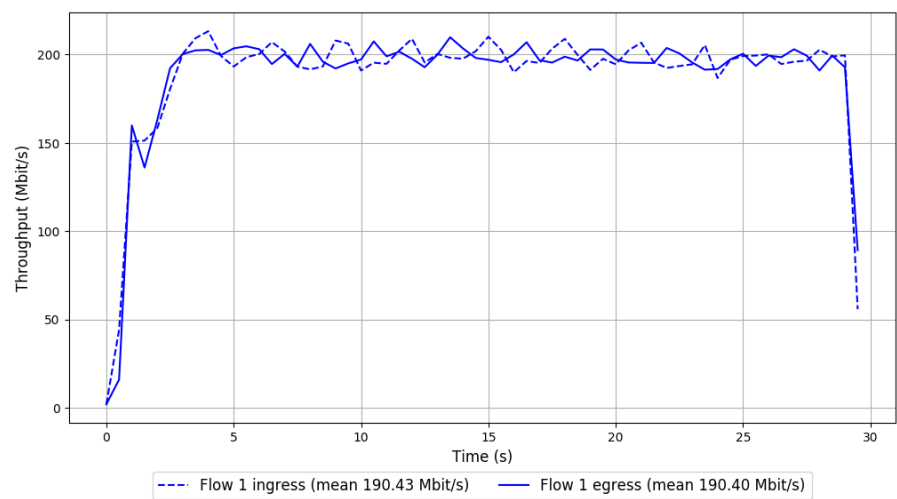
-- Flow 1:

Average throughput: 190.40 Mbit/s

95th percentile per-packet one-way delay: 64.268 ms

Loss rate: 0.01%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2018-01-09 09:48:22

End at: 2018-01-09 09:48:52

Below is generated by plot.py at 2018-01-09 11:58:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 186.58 Mbit/s

95th percentile per-packet one-way delay: 62.206 ms

Loss rate: 0.50%

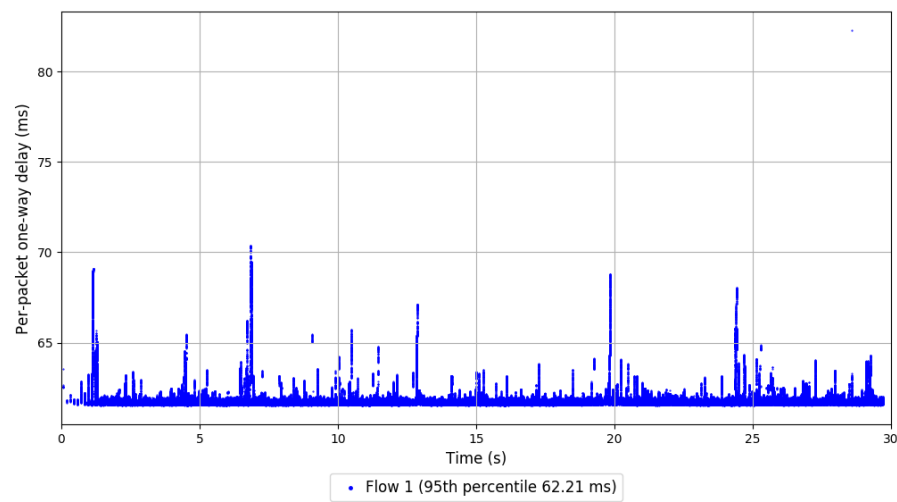
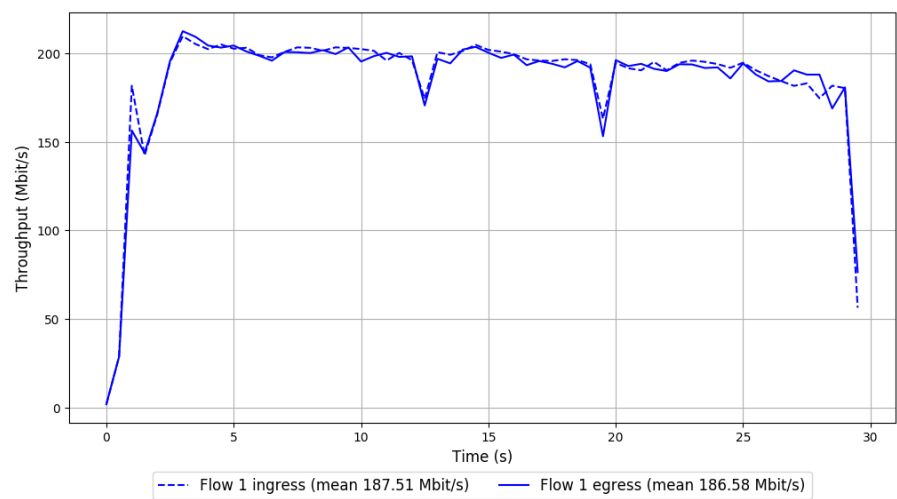
-- Flow 1:

Average throughput: 186.58 Mbit/s

95th percentile per-packet one-way delay: 62.206 ms

Loss rate: 0.50%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2018-01-09 09:59:45

End at: 2018-01-09 10:00:15

Below is generated by plot.py at 2018-01-09 11:58:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 190.18 Mbit/s

95th percentile per-packet one-way delay: 64.665 ms

Loss rate: 0.15%

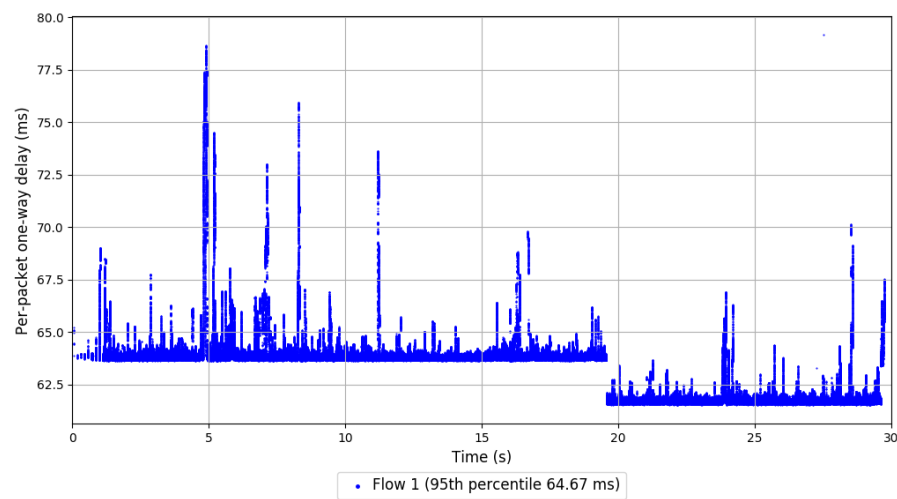
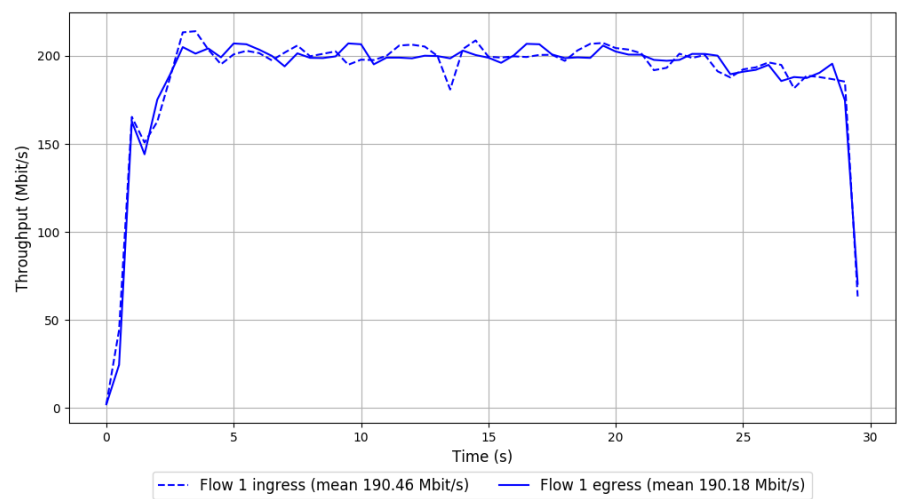
-- Flow 1:

Average throughput: 190.18 Mbit/s

95th percentile per-packet one-way delay: 64.665 ms

Loss rate: 0.15%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2018-01-09 10:11:18

End at: 2018-01-09 10:11:48

Below is generated by plot.py at 2018-01-09 11:58:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 185.08 Mbit/s

95th percentile per-packet one-way delay: 62.110 ms

Loss rate: 0.00%

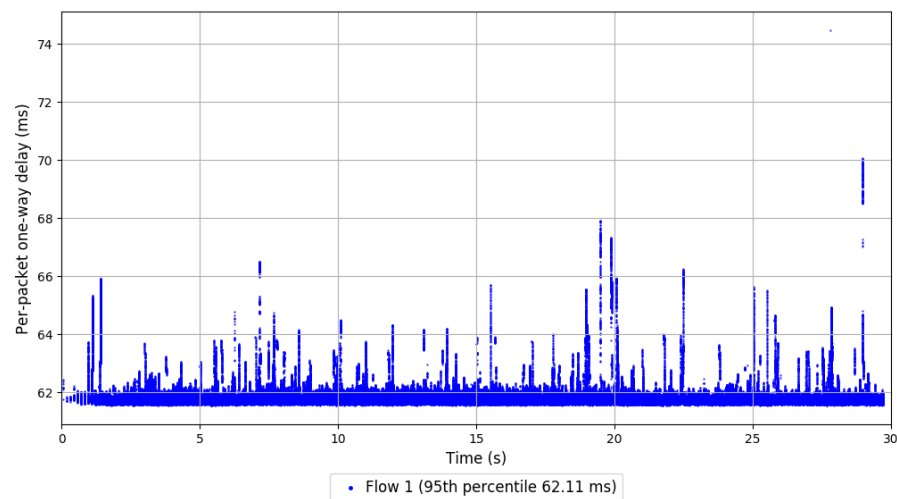
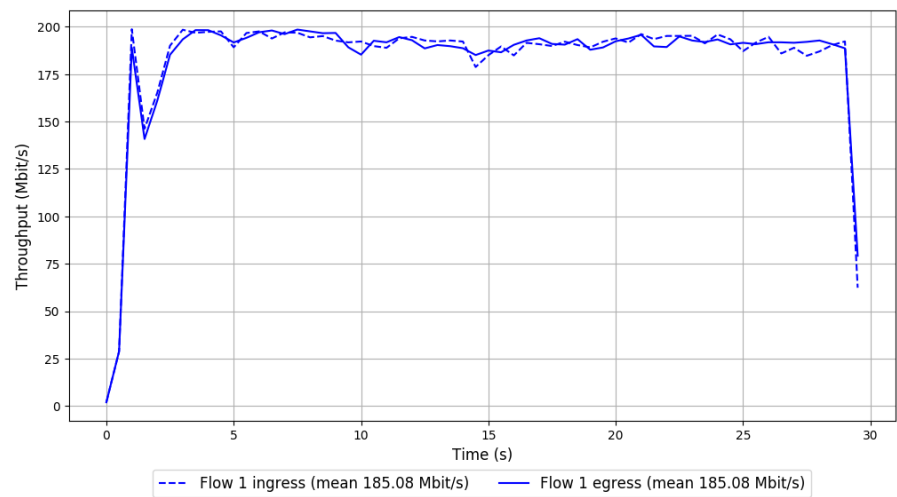
-- Flow 1:

Average throughput: 185.08 Mbit/s

95th percentile per-packet one-way delay: 62.110 ms

Loss rate: 0.00%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2018-01-09 10:22:53

End at: 2018-01-09 10:23:23

Below is generated by plot.py at 2018-01-09 11:58:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 185.91 Mbit/s

95th percentile per-packet one-way delay: 62.201 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 185.91 Mbit/s

95th percentile per-packet one-way delay: 62.201 ms

Loss rate: 0.00%

Run 10: Report of Indigo — Data Link

