

Pantheon Report

Generated at 2018-02-13 18:49:39 (UTC).

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

Repeated the test of 17 congestion control schemes 10 times.

Each test lasted for 30 seconds running 1 flow.

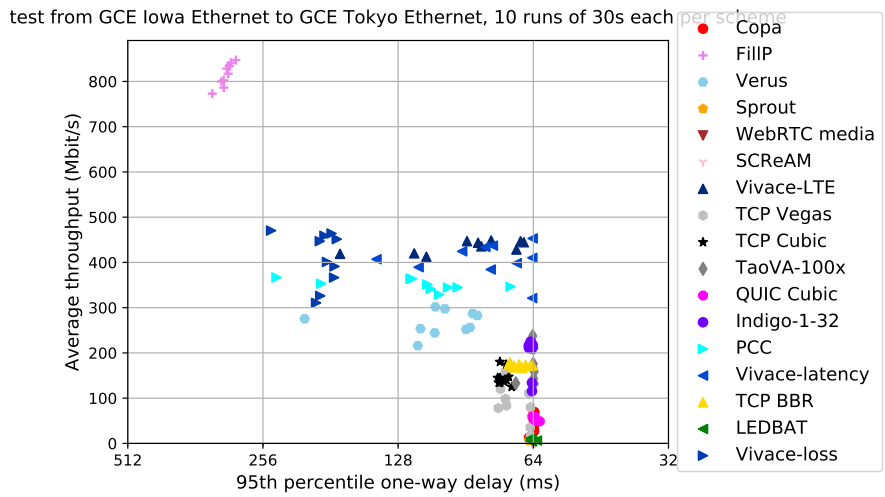
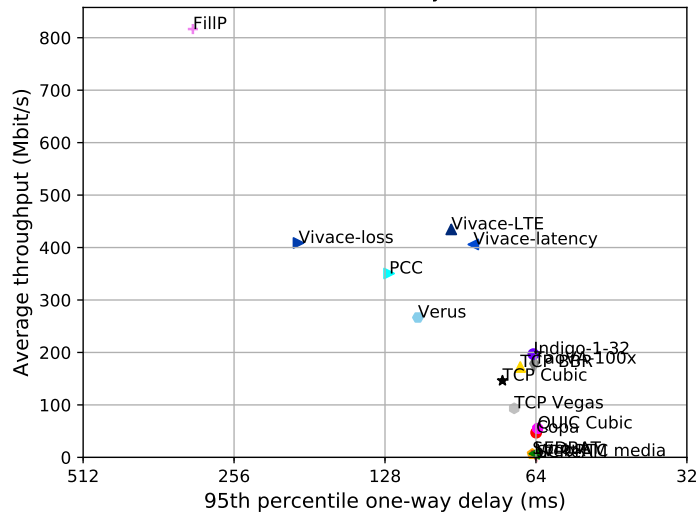
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

Git summary:

```
branch: master @ 2efdad57c2c56a9458b0d01ff33345e11732665
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ 828bbf95fd4941149b5cec90f281d1c69ae1a5c6
third_party/genericCC @ 80b516c448f795fd6e9675f7177b69c622f07da8
third_party/indigo @ a9b2060d39e4da2e8987e893e3eca2a6c7cd0ab9
third_party/indigo-1-layer-128-unit @ 3ae9e4ef4230db7484501f82ce8b377695f2f66d
third_party/indigo-1-layer-32-unit @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/indigo-1-layer-32-unit-no-calib @ 1f3a7f75b41135ed5b540c0fd3505939528e2a5f
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 @ f1a14bffe749737437f61b1eae30b267cde681
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/vivace @ 7a4ba531e75b4a6f66f5c4580192120401784ce3
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)



scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	10	172.28	68.78	0.00
TCP Cubic	10	146.14	74.64	0.01
LEDBAT	10	6.95	64.50	0.01
PCC	10	350.52	125.58	0.33
QUIC Cubic	9	55.13	63.51	0.00
SCReAM	10	0.22	63.79	0.01
WebRTC media	10	2.26	63.85	0.01
Sprout	10	6.53	65.06	0.02
TaoVA-100x	10	178.74	64.53	0.01
TCP Vegas	10	93.50	70.73	0.00
Verus	10	266.63	110.06	0.83
Copa	10	47.07	63.93	0.04
FillP	10	816.51	309.27	9.71
Indigo-1-32	10	196.78	64.75	0.00
Vivace-latency	10	405.92	85.34	0.08
Vivace-loss	10	408.70	190.41	3.84
Vivace-LTE	10	434.64	94.42	0.06

Run 1: Statistics of TCP BBR

Start at: 2018-02-13 13:40:34

End at: 2018-02-13 13:41:04

Below is generated by plot.py at 2018-02-13 17:35:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 171.60 Mbit/s

95th percentile per-packet one-way delay: 70.666 ms

Loss rate: 0.00%

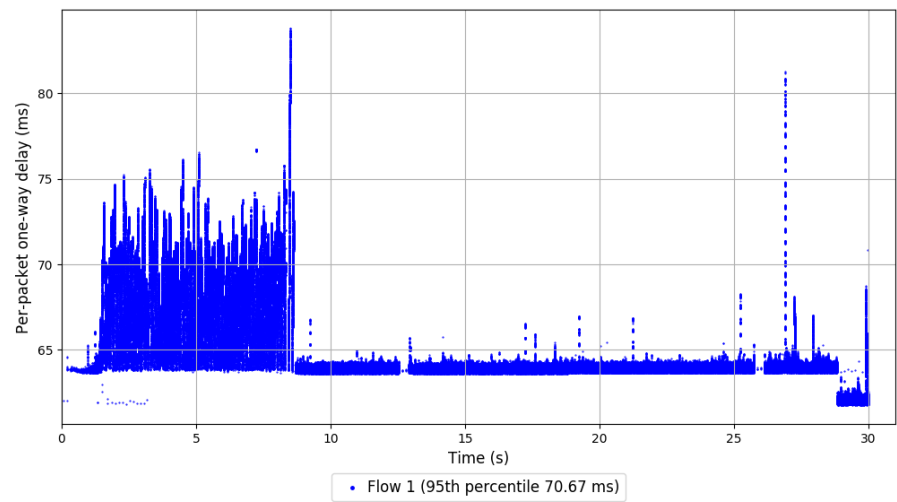
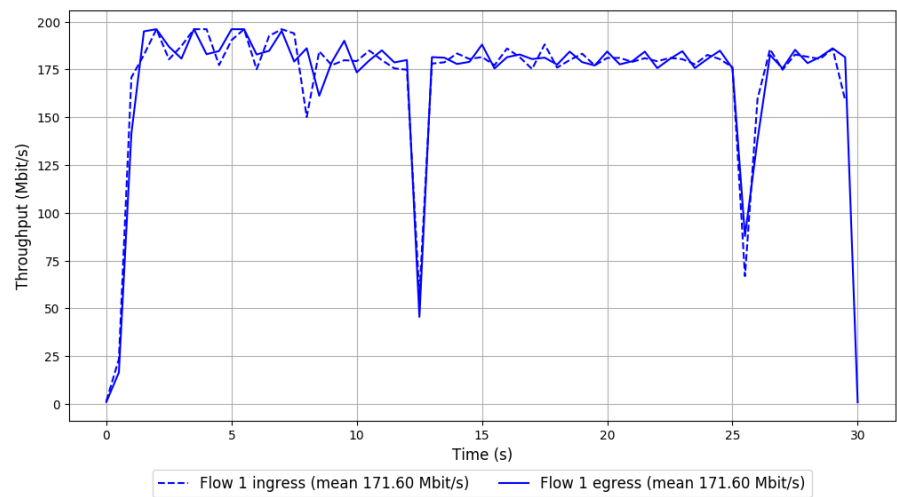
-- Flow 1:

Average throughput: 171.60 Mbit/s

95th percentile per-packet one-way delay: 70.666 ms

Loss rate: 0.00%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-02-13 13:55:19

End at: 2018-02-13 13:55:49

Below is generated by plot.py at 2018-02-13 17:35:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 168.02 Mbit/s

95th percentile per-packet one-way delay: 71.095 ms

Loss rate: 0.00%

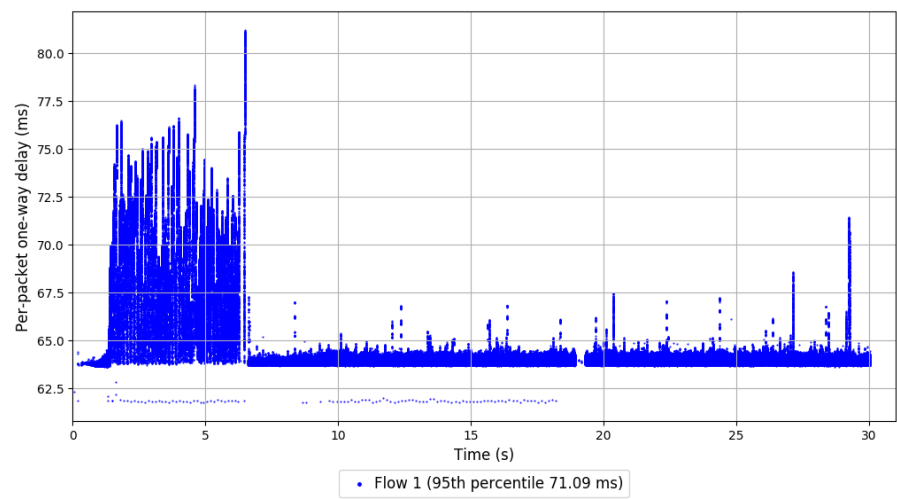
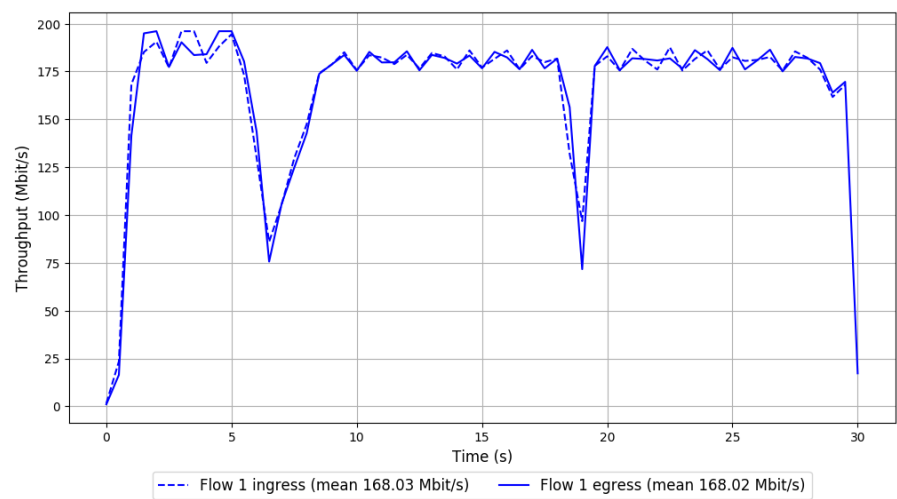
-- Flow 1:

Average throughput: 168.02 Mbit/s

95th percentile per-packet one-way delay: 71.095 ms

Loss rate: 0.00%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-02-13 14:10:04

End at: 2018-02-13 14:10:34

Below is generated by plot.py at 2018-02-13 17:35:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 166.87 Mbit/s

95th percentile per-packet one-way delay: 67.756 ms

Loss rate: 0.01%

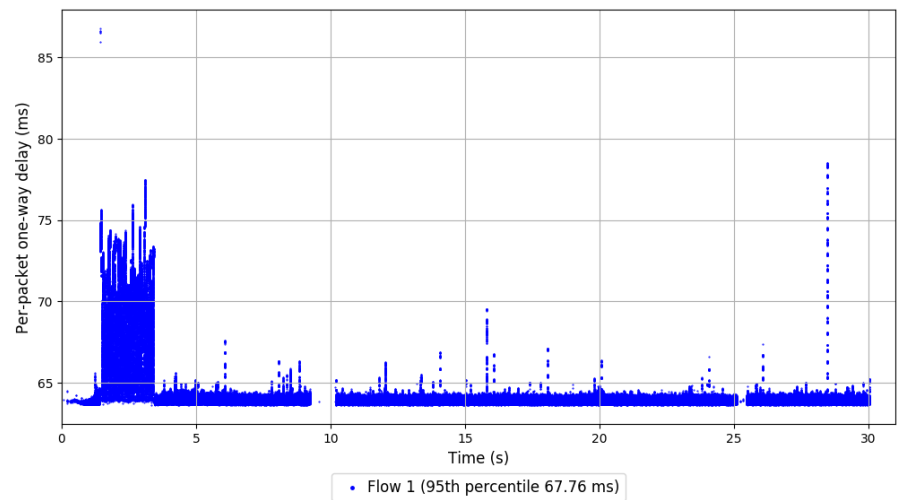
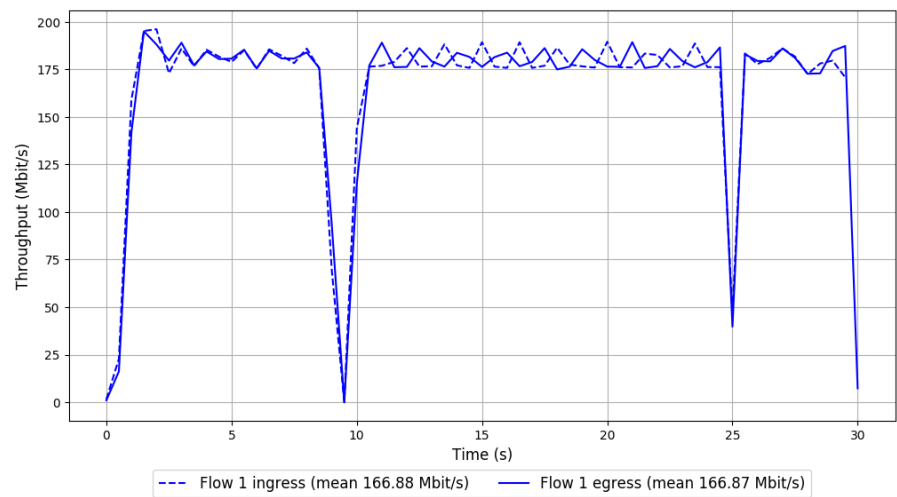
-- Flow 1:

Average throughput: 166.87 Mbit/s

95th percentile per-packet one-way delay: 67.756 ms

Loss rate: 0.01%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-02-13 14:24:41

End at: 2018-02-13 14:25:12

Below is generated by plot.py at 2018-02-13 17:35:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 178.92 Mbit/s

95th percentile per-packet one-way delay: 72.133 ms

Loss rate: 0.01%

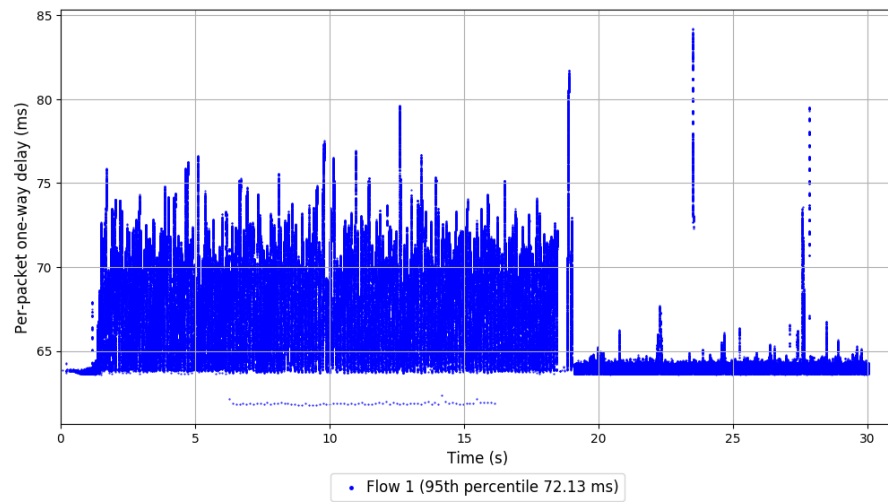
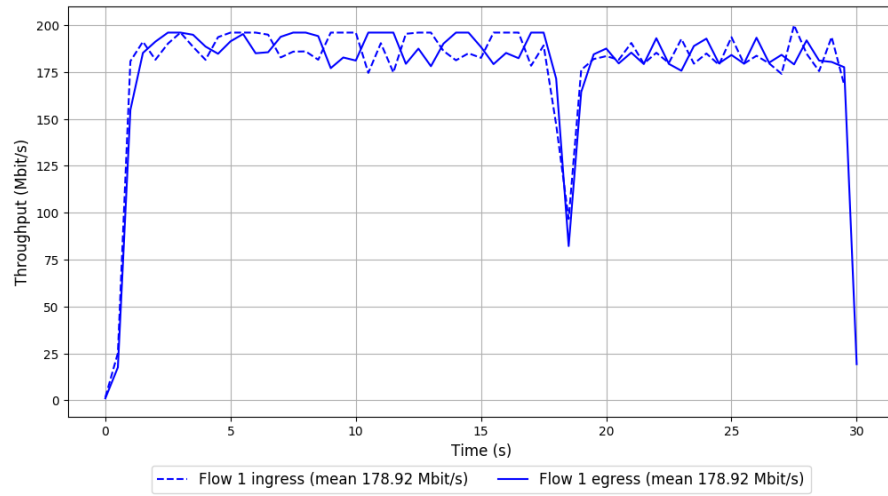
-- Flow 1:

Average throughput: 178.92 Mbit/s

95th percentile per-packet one-way delay: 72.133 ms

Loss rate: 0.01%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-02-13 14:39:31

End at: 2018-02-13 14:40:01

Below is generated by plot.py at 2018-02-13 17:35:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 172.68 Mbit/s

95th percentile per-packet one-way delay: 64.280 ms

Loss rate: 0.01%

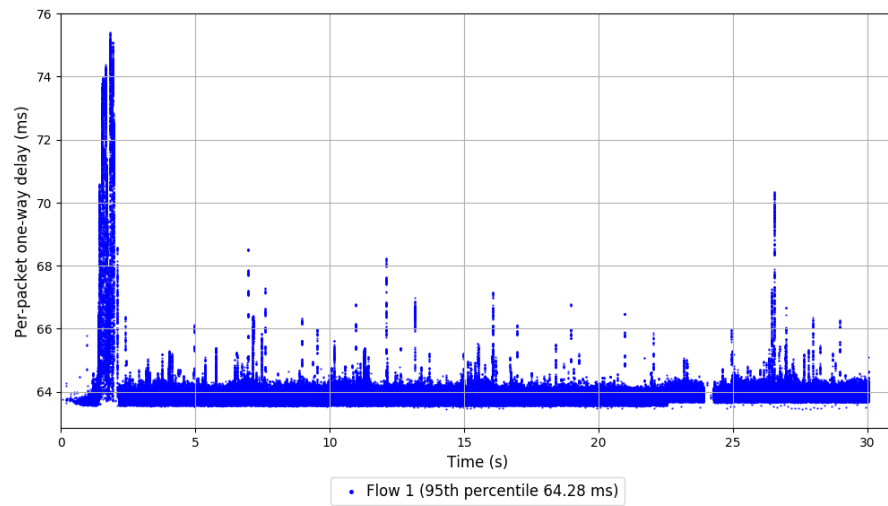
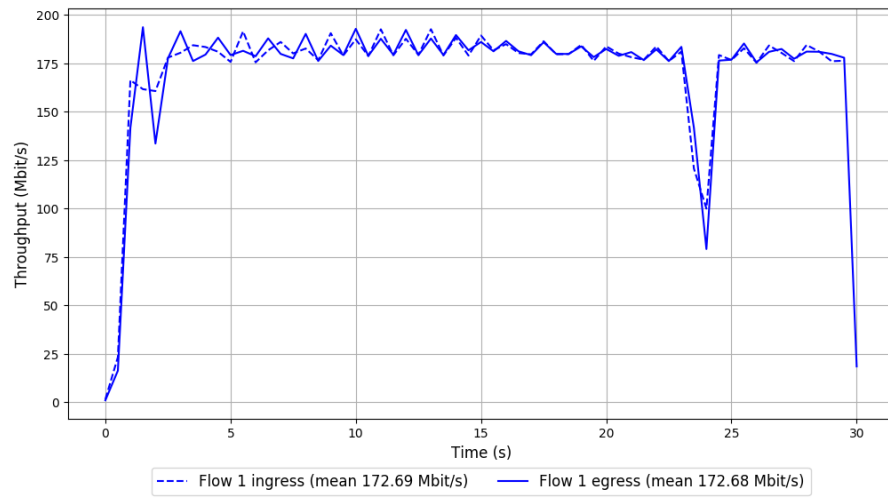
-- Flow 1:

Average throughput: 172.68 Mbit/s

95th percentile per-packet one-way delay: 64.280 ms

Loss rate: 0.01%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-02-13 14:54:16

End at: 2018-02-13 14:54:46

Below is generated by plot.py at 2018-02-13 17:35:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 173.30 Mbit/s

95th percentile per-packet one-way delay: 66.593 ms

Loss rate: 0.00%

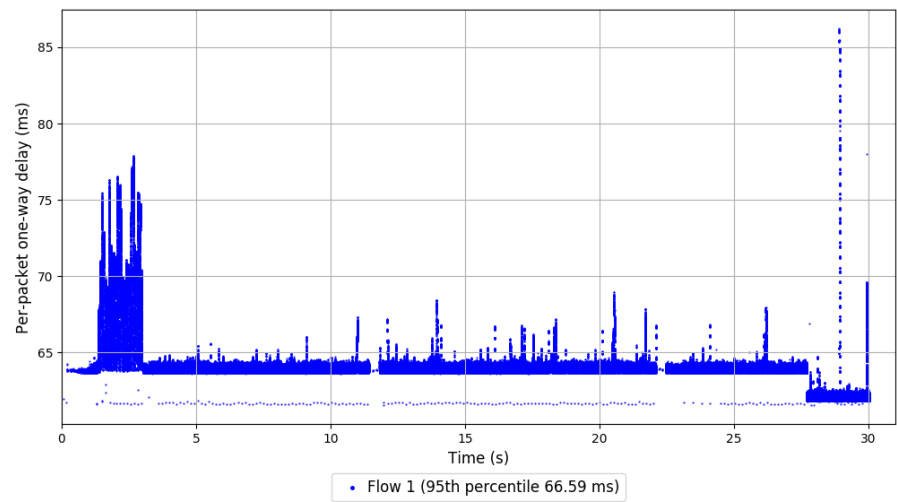
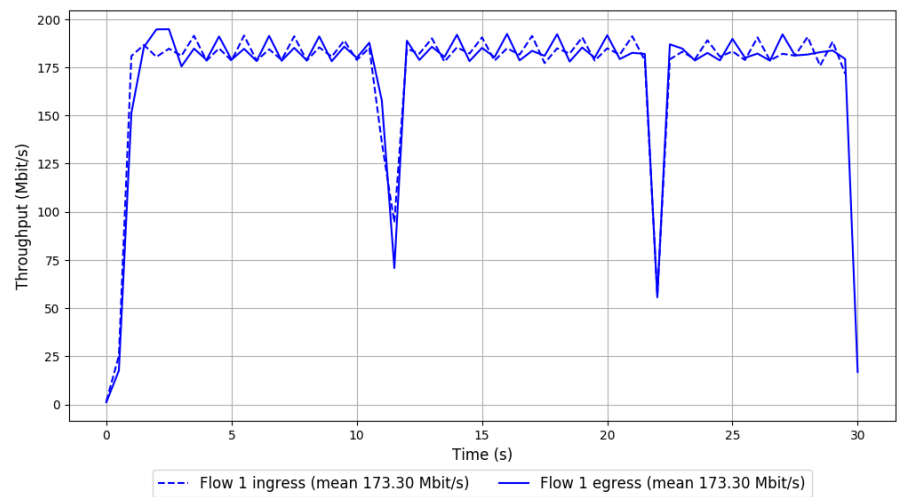
-- Flow 1:

Average throughput: 173.30 Mbit/s

95th percentile per-packet one-way delay: 66.593 ms

Loss rate: 0.00%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-02-13 15:09:00

End at: 2018-02-13 15:09:30

Below is generated by plot.py at 2018-02-13 17:35:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 174.86 Mbit/s

95th percentile per-packet one-way delay: 72.630 ms

Loss rate: 0.00%

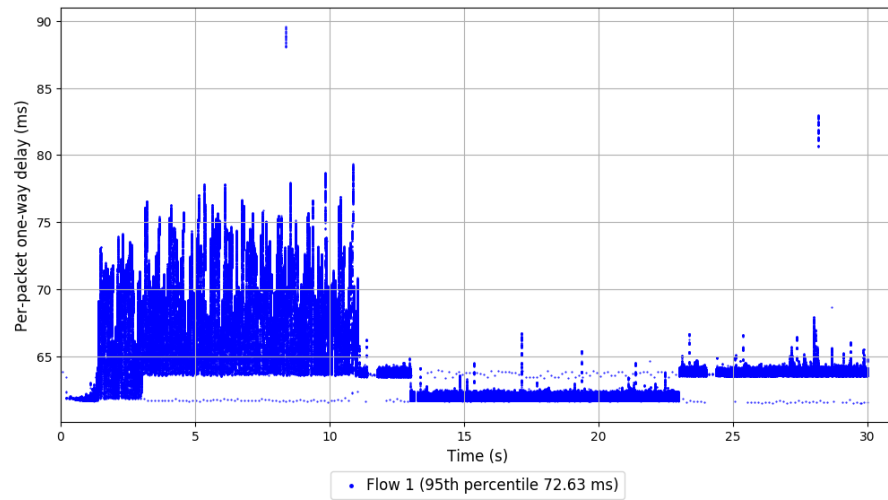
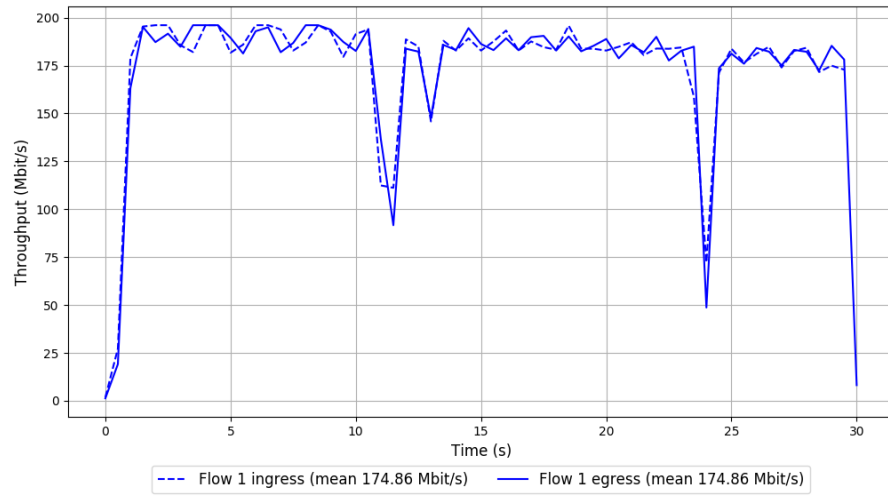
-- Flow 1:

Average throughput: 174.86 Mbit/s

95th percentile per-packet one-way delay: 72.630 ms

Loss rate: 0.00%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-02-13 15:23:53

End at: 2018-02-13 15:24:23

Below is generated by plot.py at 2018-02-13 17:35:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 174.35 Mbit/s

95th percentile per-packet one-way delay: 68.805 ms

Loss rate: 0.00%

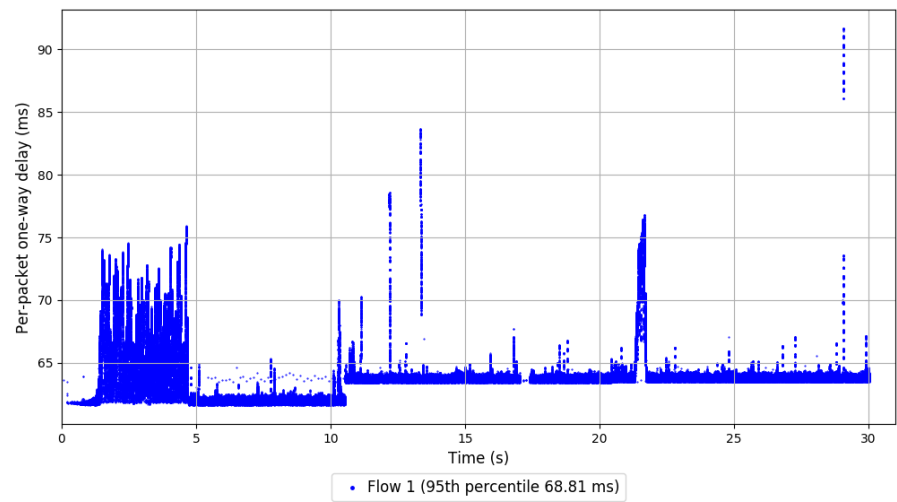
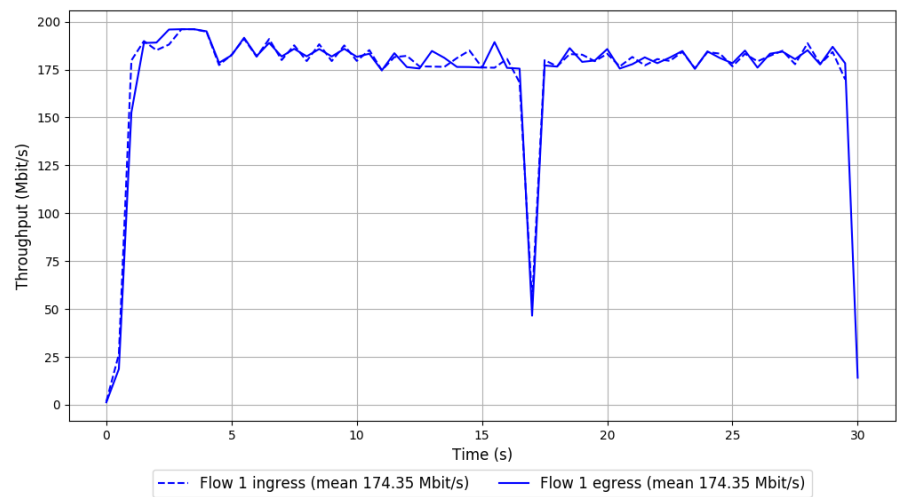
-- Flow 1:

Average throughput: 174.35 Mbit/s

95th percentile per-packet one-way delay: 68.805 ms

Loss rate: 0.00%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-02-13 15:38:52

End at: 2018-02-13 15:39:22

Below is generated by plot.py at 2018-02-13 17:38:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 170.85 Mbit/s

95th percentile per-packet one-way delay: 68.828 ms

Loss rate: 0.00%

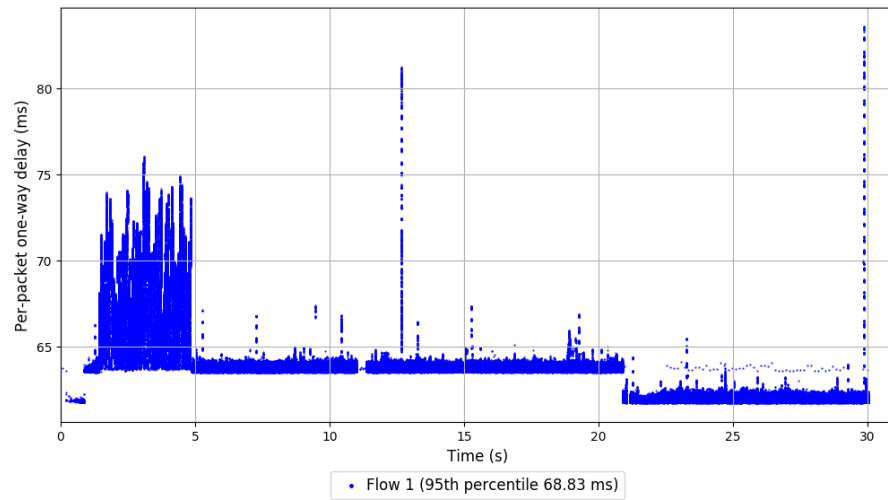
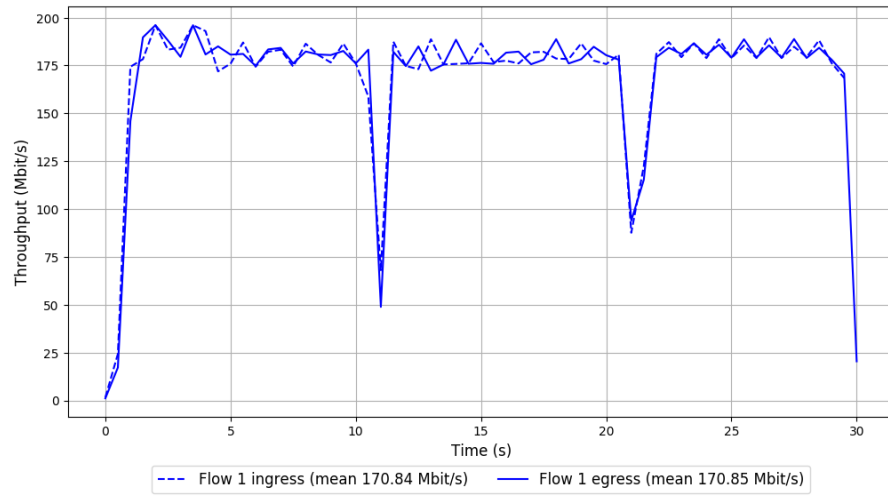
-- Flow 1:

Average throughput: 170.85 Mbit/s

95th percentile per-packet one-way delay: 68.828 ms

Loss rate: 0.00%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-02-13 15:53:44

End at: 2018-02-13 15:54:14

Below is generated by plot.py at 2018-02-13 17:38:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 171.31 Mbit/s

95th percentile per-packet one-way delay: 64.988 ms

Loss rate: 0.00%

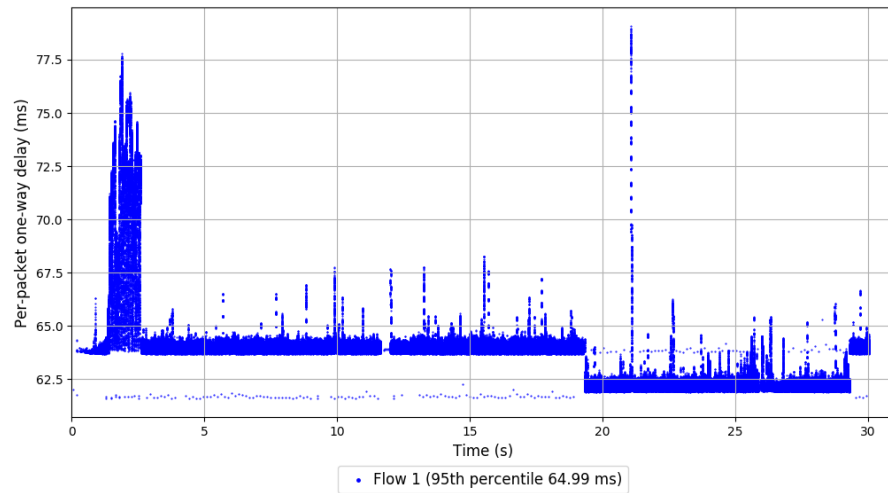
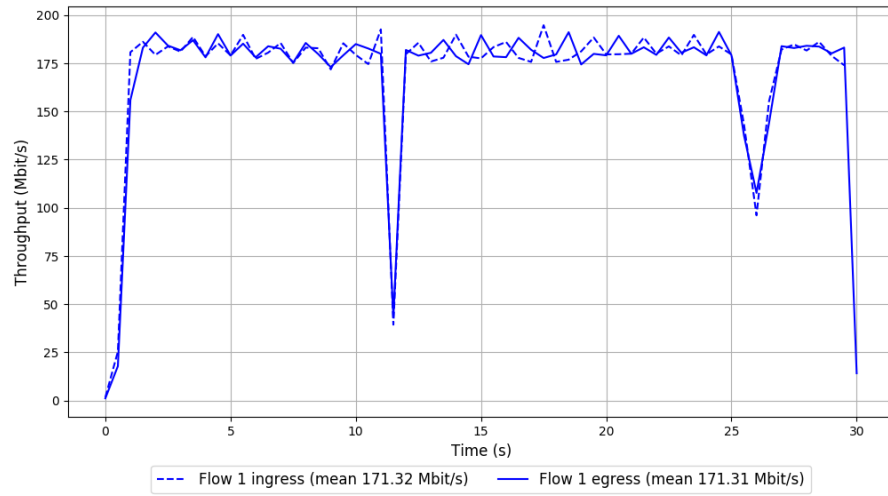
-- Flow 1:

Average throughput: 171.31 Mbit/s

95th percentile per-packet one-way delay: 64.988 ms

Loss rate: 0.00%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-02-13 13:41:20

End at: 2018-02-13 13:41:50

Below is generated by plot.py at 2018-02-13 17:38:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 124.96 Mbit/s

95th percentile per-packet one-way delay: 71.488 ms

Loss rate: 0.00%

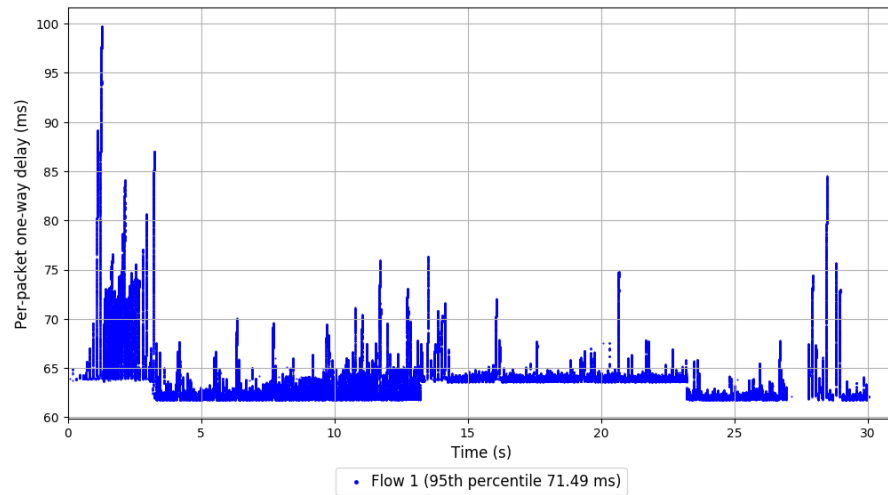
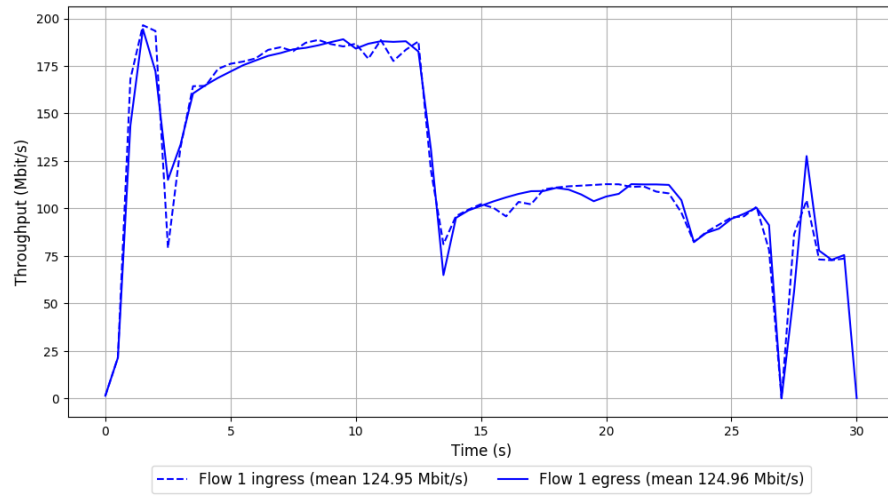
-- Flow 1:

Average throughput: 124.96 Mbit/s

95th percentile per-packet one-way delay: 71.488 ms

Loss rate: 0.00%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-02-13 13:56:05

End at: 2018-02-13 13:56:35

Below is generated by plot.py at 2018-02-13 17:38:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 144.90 Mbit/s

95th percentile per-packet one-way delay: 76.835 ms

Loss rate: 0.00%

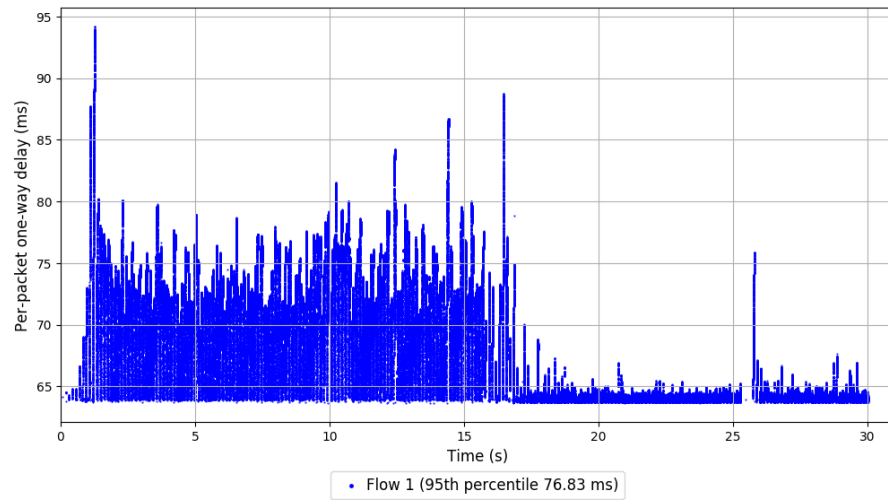
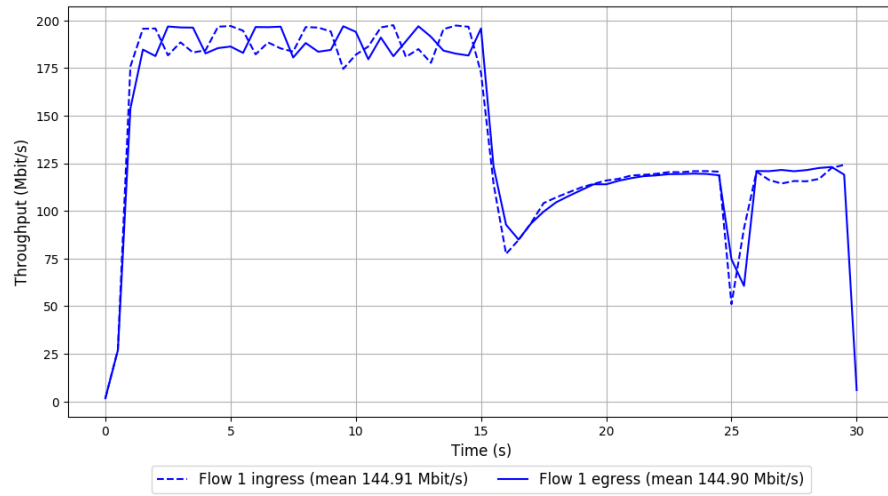
-- Flow 1:

Average throughput: 144.90 Mbit/s

95th percentile per-packet one-way delay: 76.835 ms

Loss rate: 0.00%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-02-13 14:10:49

End at: 2018-02-13 14:11:19

Below is generated by plot.py at 2018-02-13 17:38:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 139.78 Mbit/s

95th percentile per-packet one-way delay: 73.428 ms

Loss rate: 0.00%

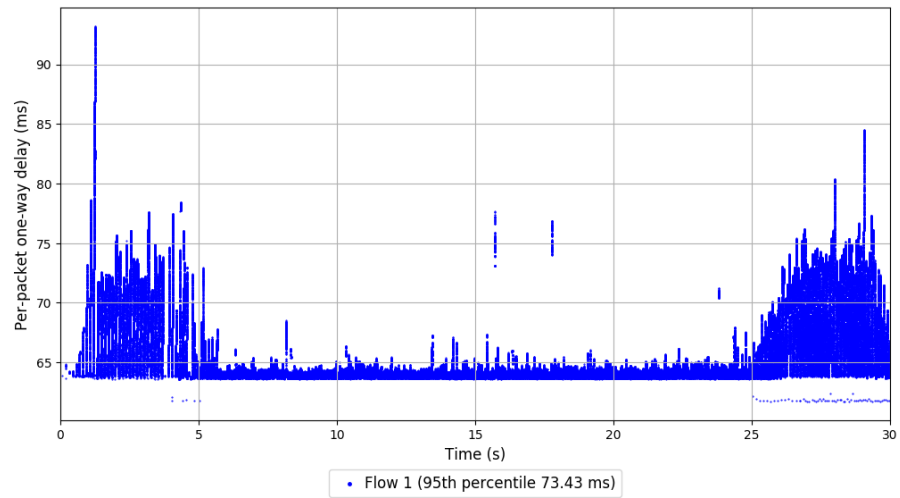
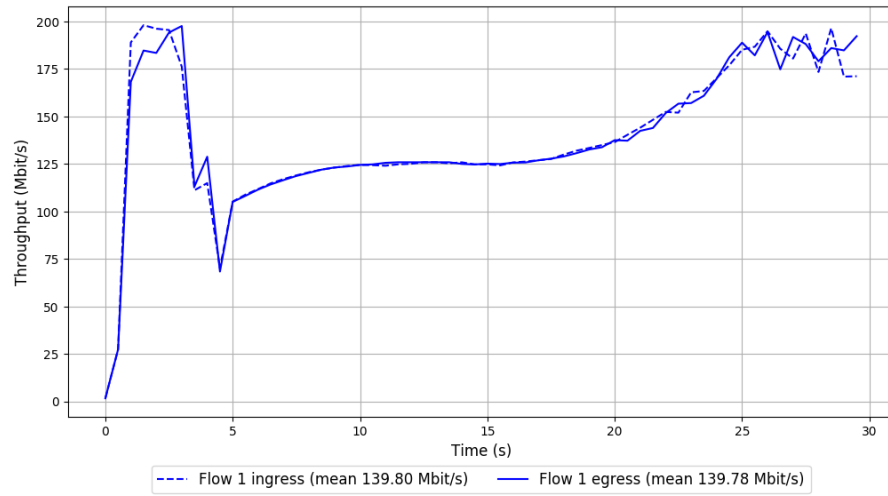
-- Flow 1:

Average throughput: 139.78 Mbit/s

95th percentile per-packet one-way delay: 73.428 ms

Loss rate: 0.00%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-02-13 14:25:28

End at: 2018-02-13 14:25:58

Below is generated by plot.py at 2018-02-13 17:38:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 136.70 Mbit/s

95th percentile per-packet one-way delay: 74.392 ms

Loss rate: 0.09%

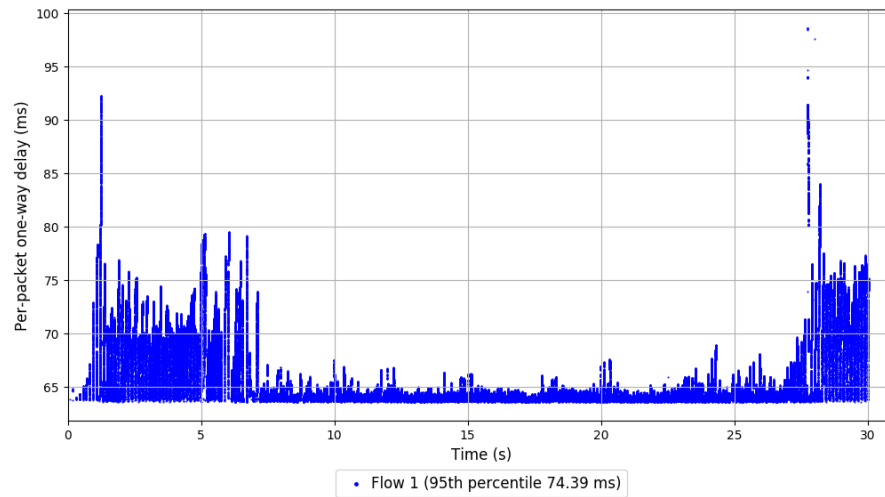
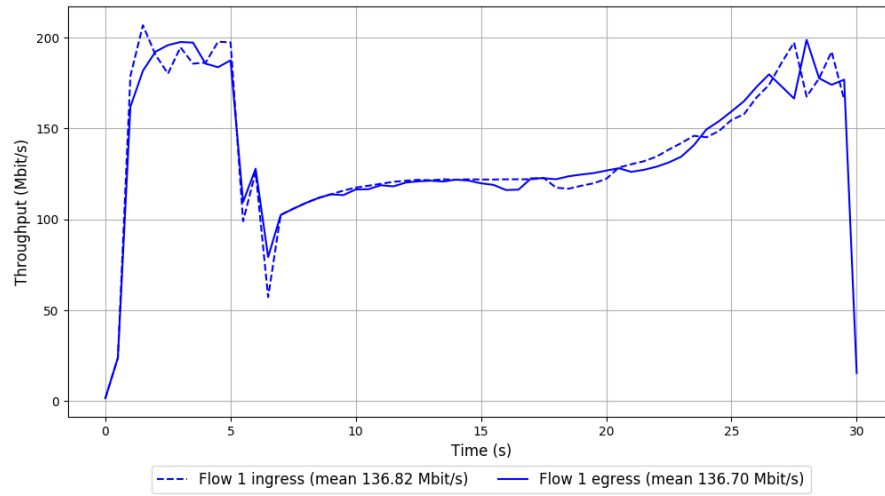
-- Flow 1:

Average throughput: 136.70 Mbit/s

95th percentile per-packet one-way delay: 74.392 ms

Loss rate: 0.09%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-02-13 14:40:17

End at: 2018-02-13 14:40:47

Below is generated by plot.py at 2018-02-13 17:38:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 134.00 Mbit/s

95th percentile per-packet one-way delay: 76.411 ms

Loss rate: 0.00%

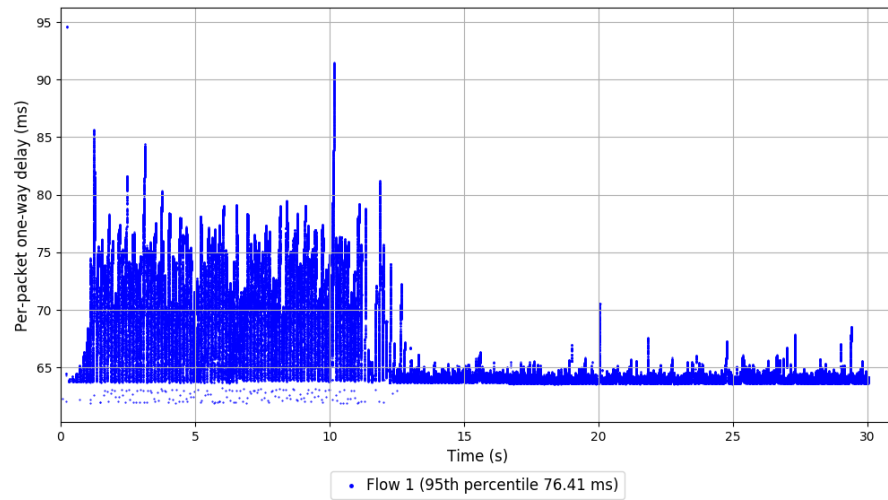
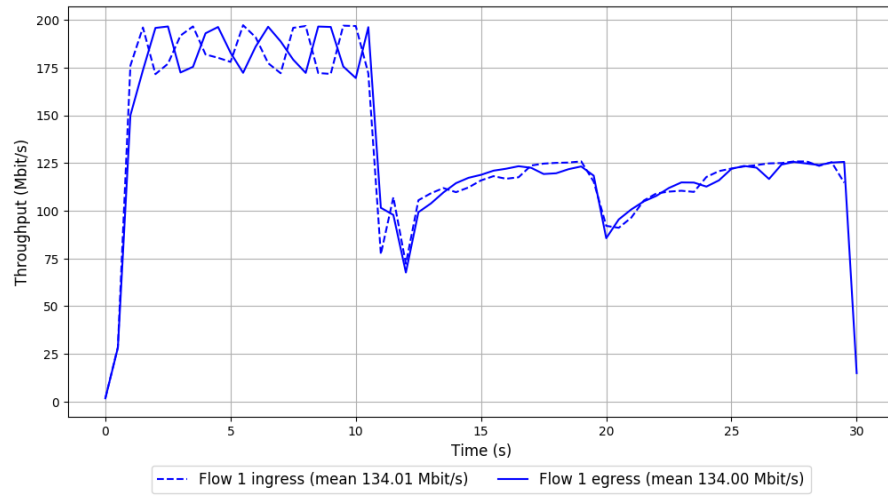
-- Flow 1:

Average throughput: 134.00 Mbit/s

95th percentile per-packet one-way delay: 76.411 ms

Loss rate: 0.00%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-02-13 14:55:01

End at: 2018-02-13 14:55:31

Below is generated by plot.py at 2018-02-13 17:38:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 134.64 Mbit/s

95th percentile per-packet one-way delay: 75.830 ms

Loss rate: 0.02%

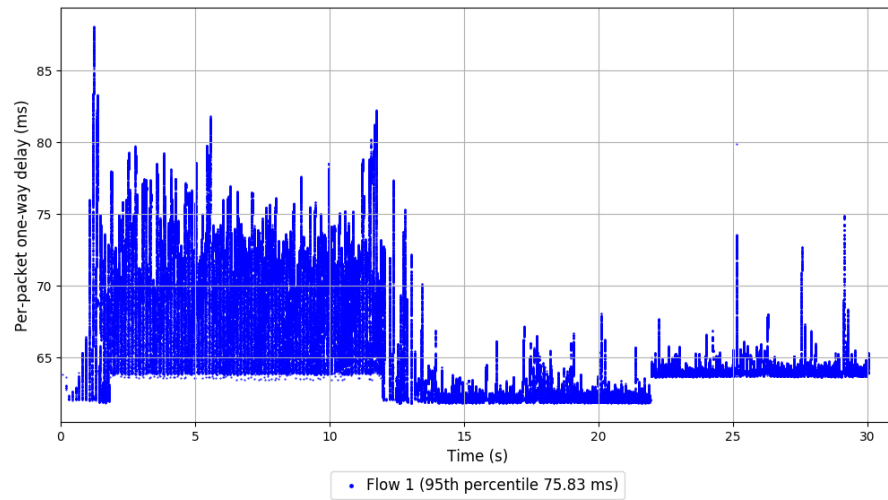
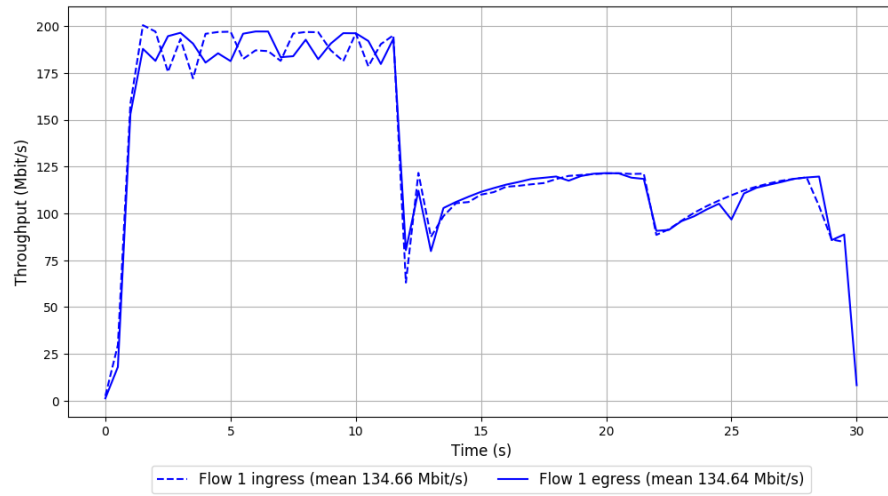
-- Flow 1:

Average throughput: 134.64 Mbit/s

95th percentile per-packet one-way delay: 75.830 ms

Loss rate: 0.02%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-02-13 15:09:46

End at: 2018-02-13 15:10:16

Below is generated by plot.py at 2018-02-13 17:39:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 147.33 Mbit/s

95th percentile per-packet one-way delay: 72.628 ms

Loss rate: 0.00%

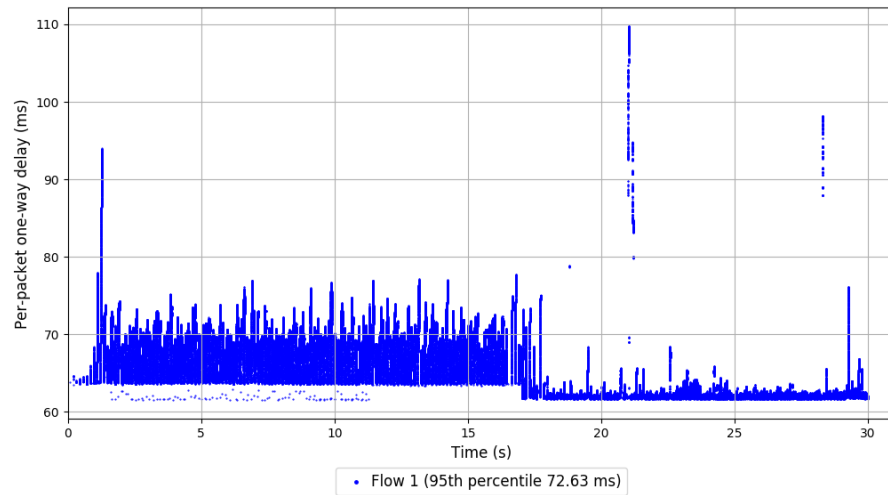
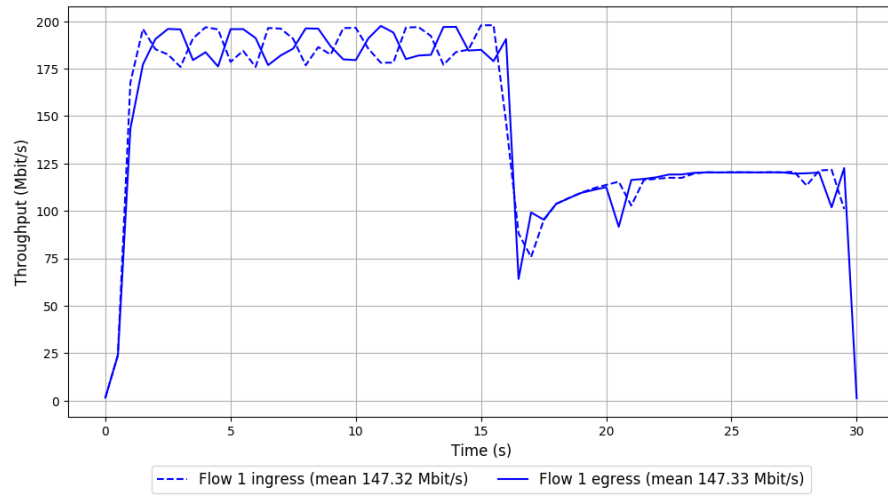
-- Flow 1:

Average throughput: 147.33 Mbit/s

95th percentile per-packet one-way delay: 72.628 ms

Loss rate: 0.00%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-02-13 15:24:38

End at: 2018-02-13 15:25:08

Below is generated by plot.py at 2018-02-13 17:39:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 144.62 Mbit/s

95th percentile per-packet one-way delay: 75.882 ms

Loss rate: 0.00%

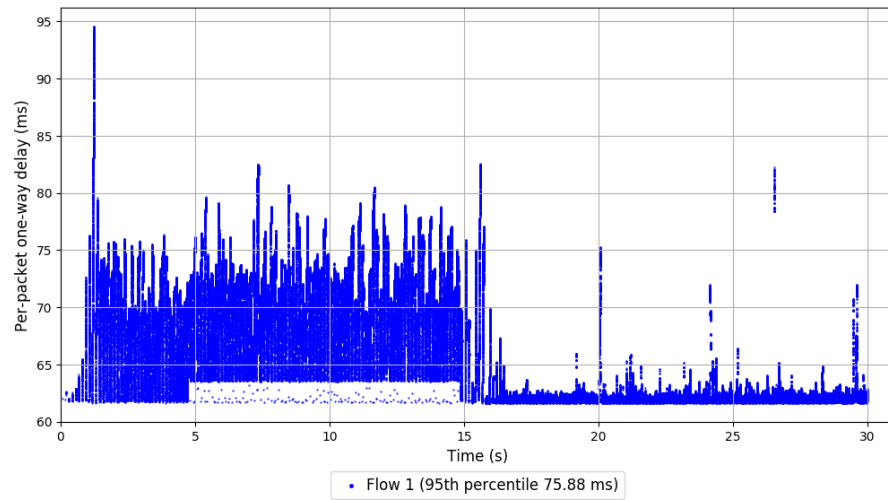
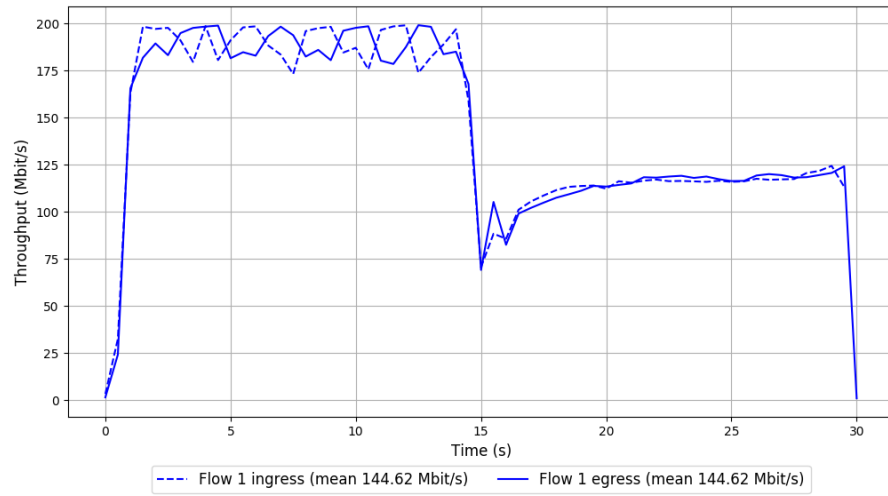
-- Flow 1:

Average throughput: 144.62 Mbit/s

95th percentile per-packet one-way delay: 75.882 ms

Loss rate: 0.00%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-02-13 15:39:38

End at: 2018-02-13 15:40:08

Below is generated by plot.py at 2018-02-13 17:40:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 174.23 Mbit/s

95th percentile per-packet one-way delay: 73.518 ms

Loss rate: 0.00%

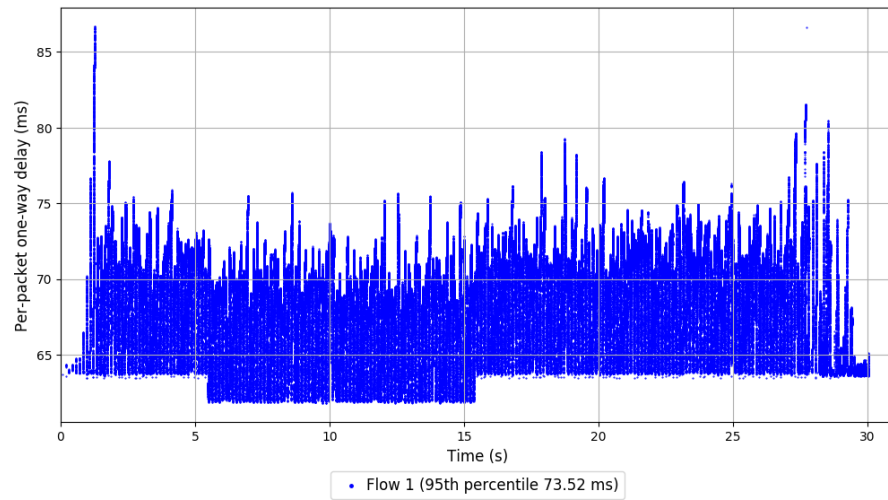
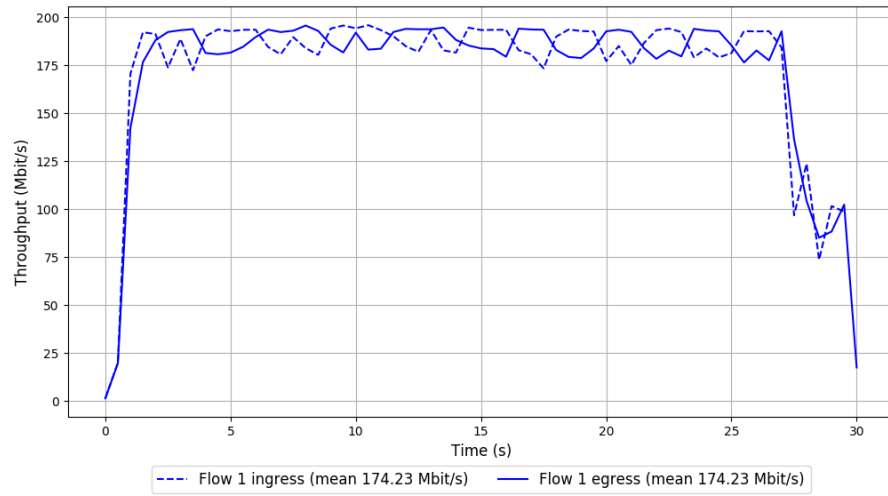
-- Flow 1:

Average throughput: 174.23 Mbit/s

95th percentile per-packet one-way delay: 73.518 ms

Loss rate: 0.00%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-02-13 15:54:30

End at: 2018-02-13 15:55:00

Below is generated by plot.py at 2018-02-13 17:40:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 180.23 Mbit/s

95th percentile per-packet one-way delay: 75.948 ms

Loss rate: 0.00%

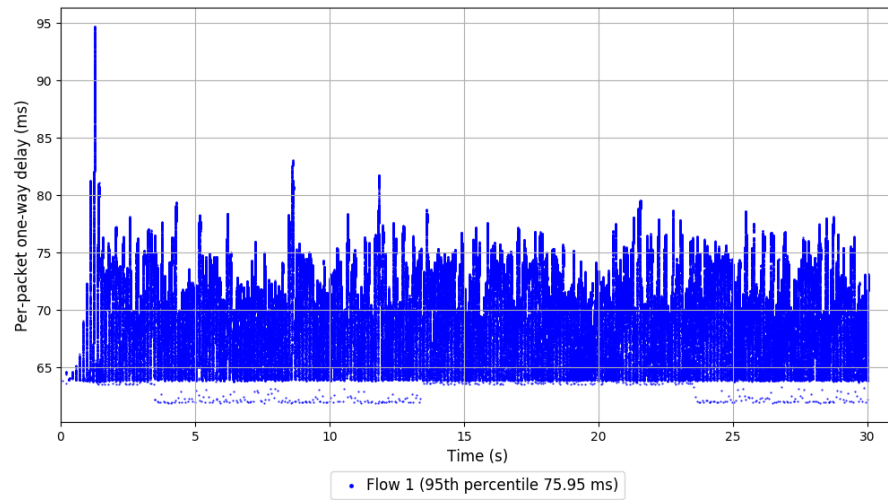
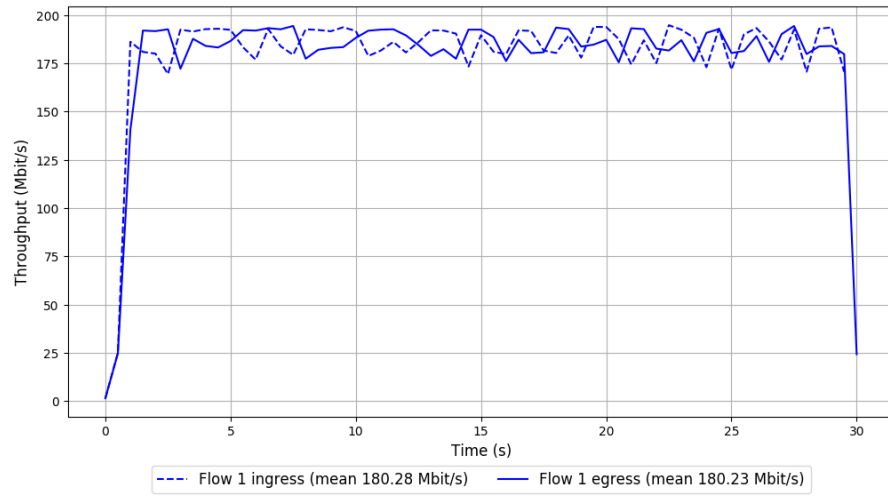
-- Flow 1:

Average throughput: 180.23 Mbit/s

95th percentile per-packet one-way delay: 75.948 ms

Loss rate: 0.00%

Run 10: Report of TCP Cubic — Data Link

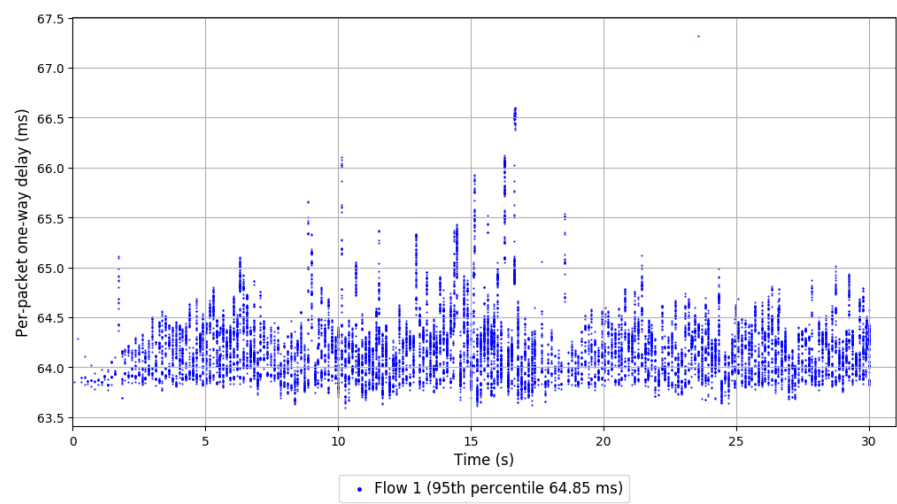
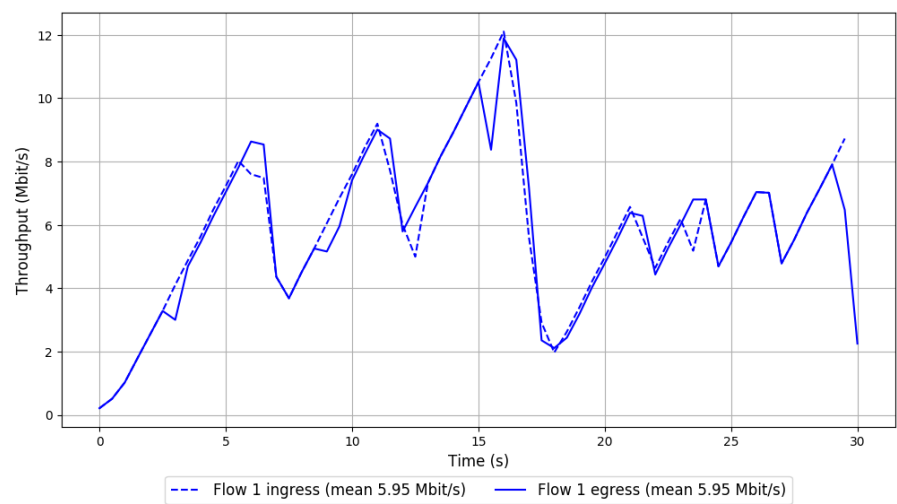


```
Run 1: Statistics of LEDBAT

Start at: 2018-02-13 13:38:36
End at: 2018-02-13 13:39:06

# Below is generated by plot.py at 2018-02-13 17:40:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 5.95 Mbit/s
95th percentile per-packet one-way delay: 64.853 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 5.95 Mbit/s
95th percentile per-packet one-way delay: 64.853 ms
Loss rate: 0.01%
```

Run 1: Report of LEDBAT — Data Link

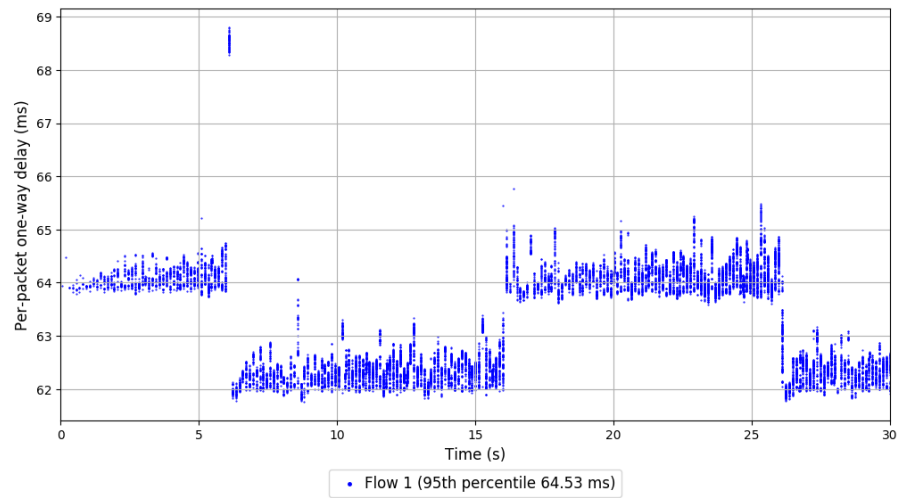
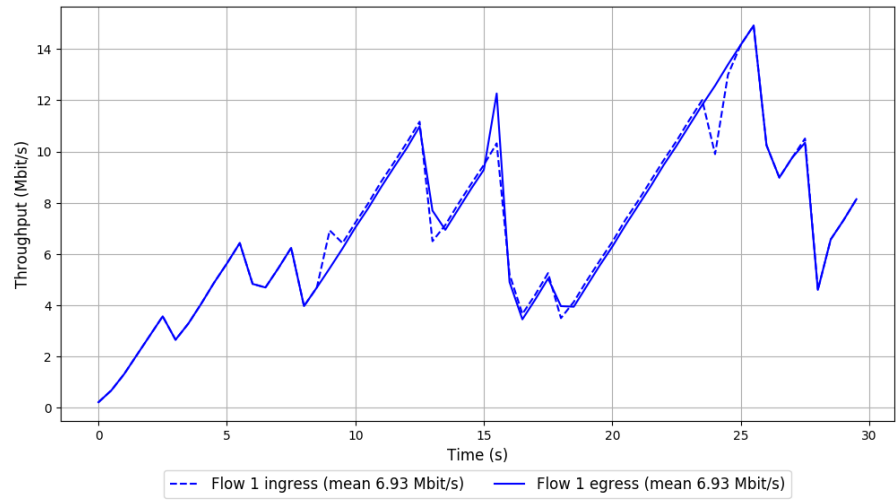


```
Run 2: Statistics of LEDBAT

Start at: 2018-02-13 13:53:17
End at: 2018-02-13 13:53:47

# Below is generated by plot.py at 2018-02-13 17:40:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 6.93 Mbit/s
95th percentile per-packet one-way delay: 64.528 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 6.93 Mbit/s
95th percentile per-packet one-way delay: 64.528 ms
Loss rate: 0.05%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-02-13 14:08:02

End at: 2018-02-13 14:08:32

Below is generated by plot.py at 2018-02-13 17:40:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 10.93 Mbit/s

95th percentile per-packet one-way delay: 64.948 ms

Loss rate: 0.00%

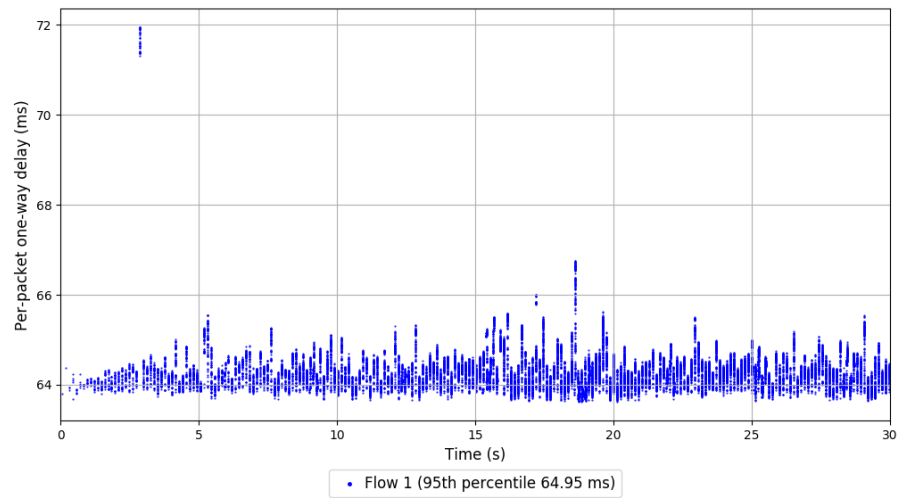
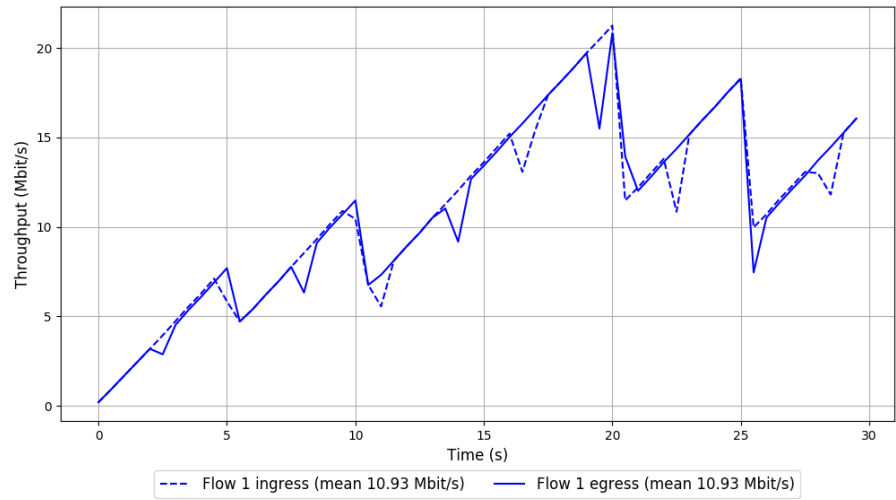
-- Flow 1:

Average throughput: 10.93 Mbit/s

95th percentile per-packet one-way delay: 64.948 ms

Loss rate: 0.00%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-02-13 14:22:42

End at: 2018-02-13 14:23:12

Below is generated by plot.py at 2018-02-13 17:40:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.93 Mbit/s

95th percentile per-packet one-way delay: 64.772 ms

Loss rate: 0.02%

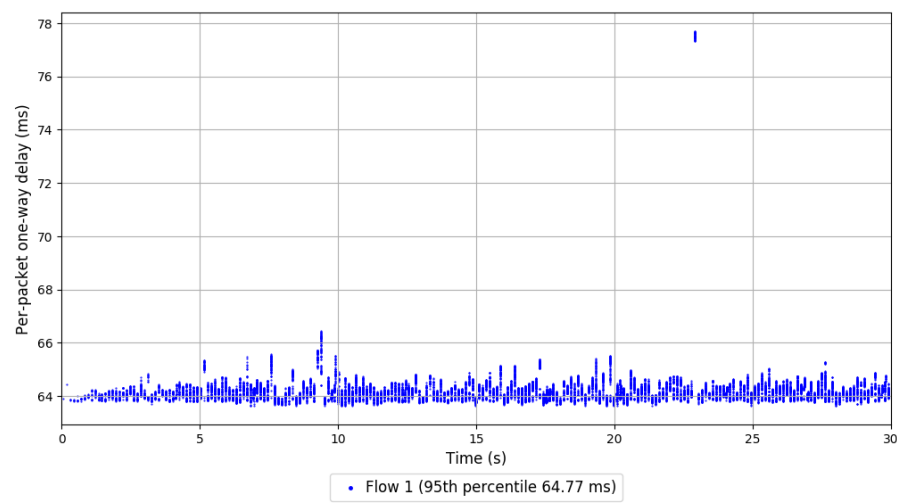
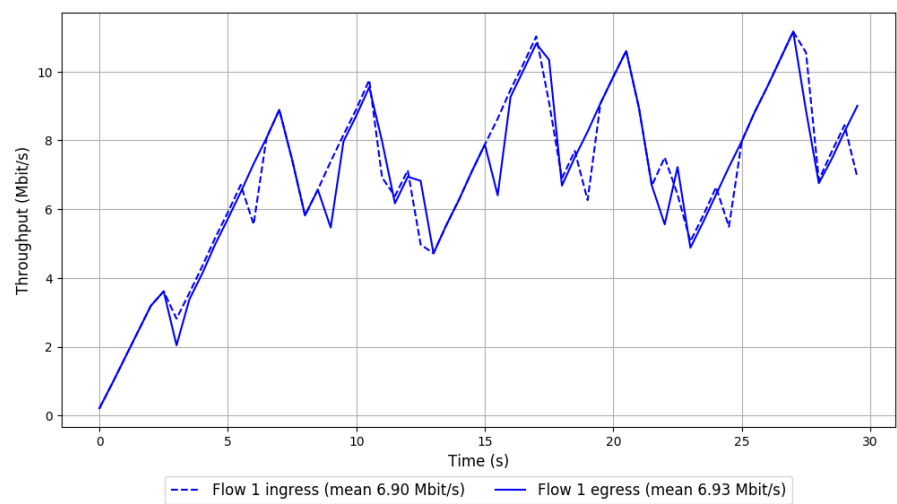
-- Flow 1:

Average throughput: 6.93 Mbit/s

95th percentile per-packet one-way delay: 64.772 ms

Loss rate: 0.02%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-02-13 14:37:29

End at: 2018-02-13 14:37:59

Below is generated by plot.py at 2018-02-13 17:40:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.51 Mbit/s

95th percentile per-packet one-way delay: 64.799 ms

Loss rate: 0.00%

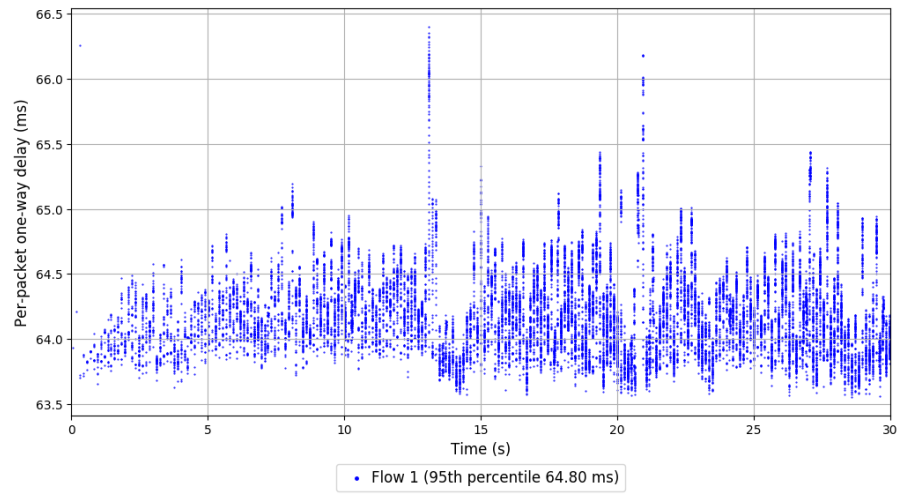
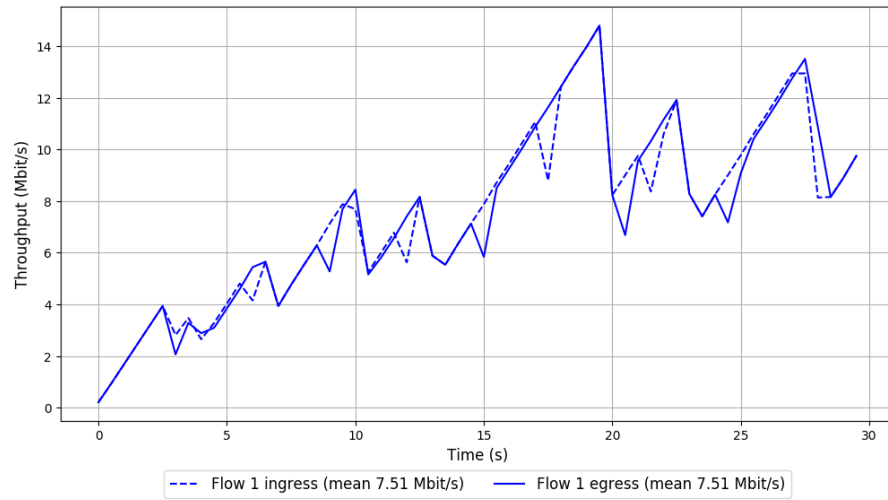
-- Flow 1:

Average throughput: 7.51 Mbit/s

95th percentile per-packet one-way delay: 64.799 ms

Loss rate: 0.00%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-02-13 14:52:16

End at: 2018-02-13 14:52:46

Below is generated by plot.py at 2018-02-13 17:40:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 8.45 Mbit/s

95th percentile per-packet one-way delay: 64.791 ms

Loss rate: 0.00%

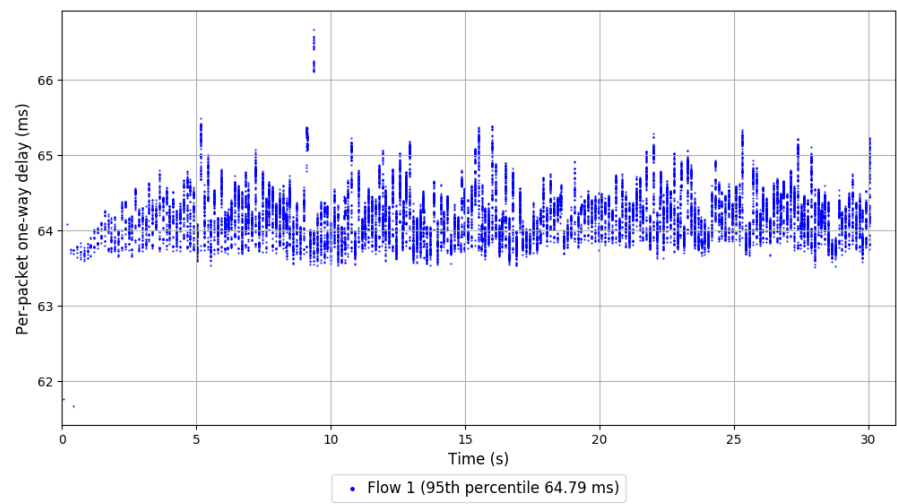
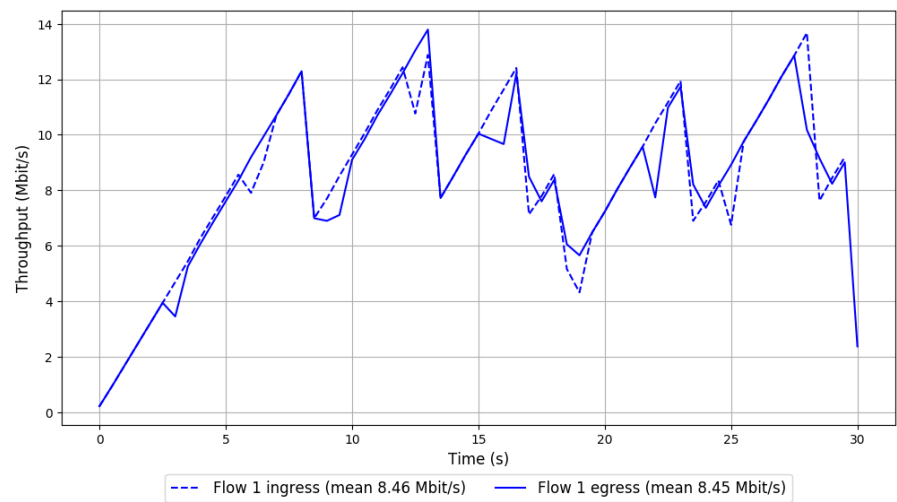
-- Flow 1:

Average throughput: 8.45 Mbit/s

95th percentile per-packet one-way delay: 64.791 ms

Loss rate: 0.00%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-02-13 15:07:00

End at: 2018-02-13 15:07:30

Below is generated by plot.py at 2018-02-13 17:40:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.53 Mbit/s

95th percentile per-packet one-way delay: 64.513 ms

Loss rate: 0.00%

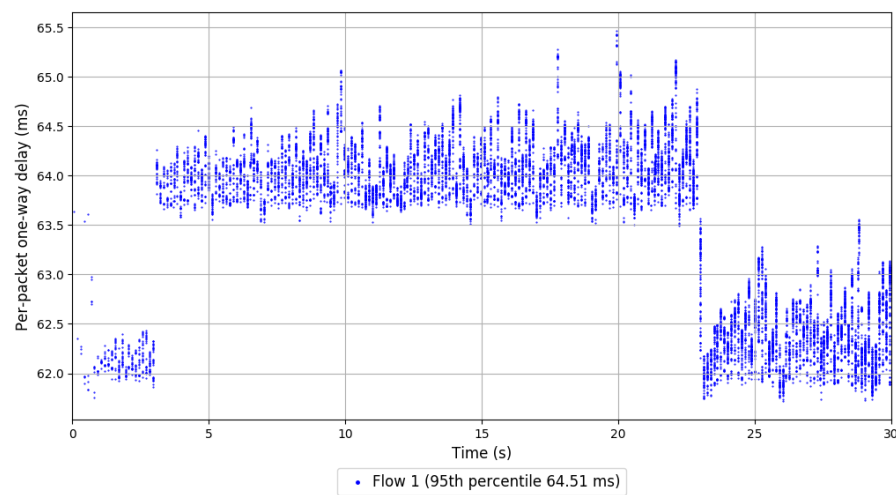
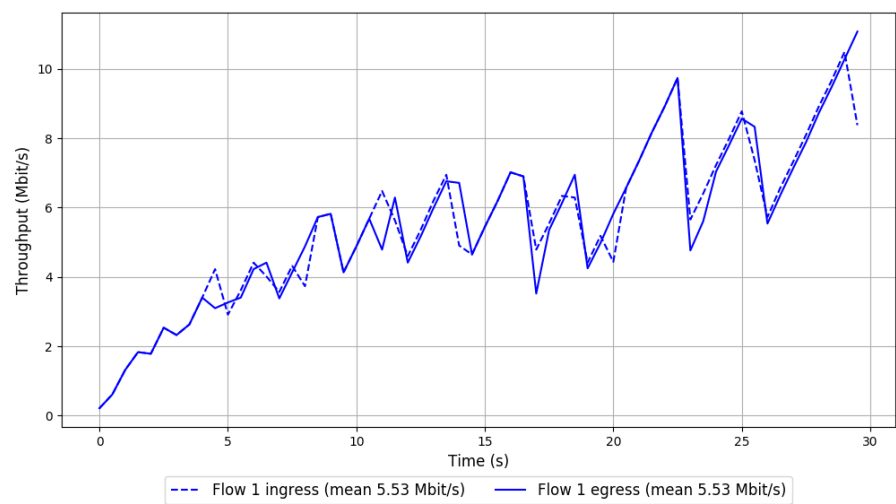
-- Flow 1:

Average throughput: 5.53 Mbit/s

95th percentile per-packet one-way delay: 64.513 ms

Loss rate: 0.00%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-02-13 15:21:52

End at: 2018-02-13 15:22:22

Below is generated by plot.py at 2018-02-13 17:40:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.04 Mbit/s

95th percentile per-packet one-way delay: 64.443 ms

Loss rate: 0.02%

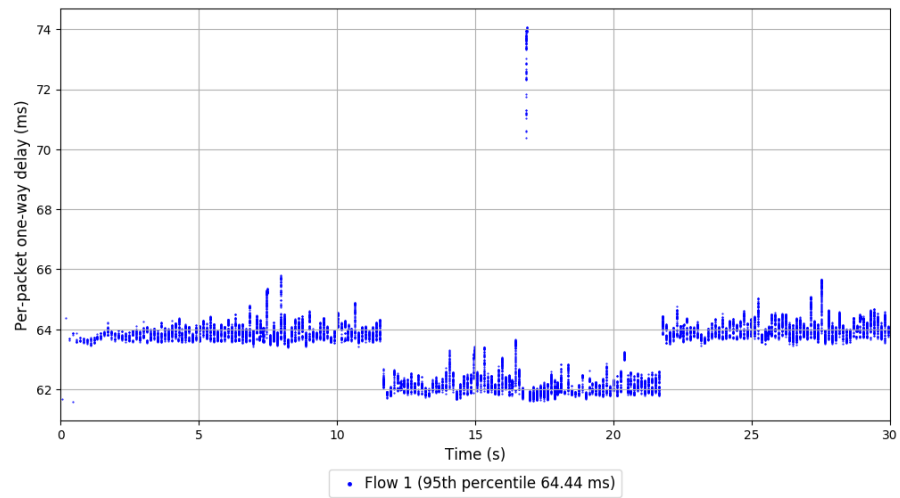
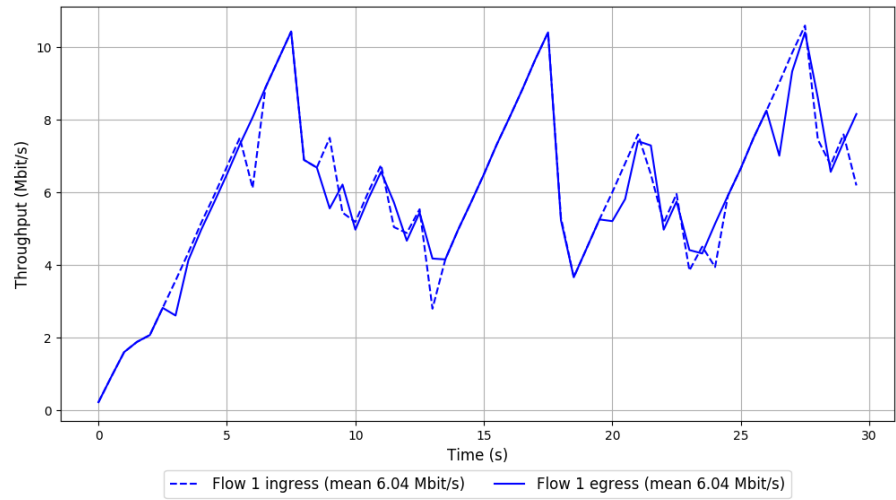
-- Flow 1:

Average throughput: 6.04 Mbit/s

95th percentile per-packet one-way delay: 64.443 ms

Loss rate: 0.02%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-02-13 15:36:50

End at: 2018-02-13 15:37:20

Below is generated by plot.py at 2018-02-13 17:40:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.34 Mbit/s

95th percentile per-packet one-way delay: 62.824 ms

Loss rate: 0.00%

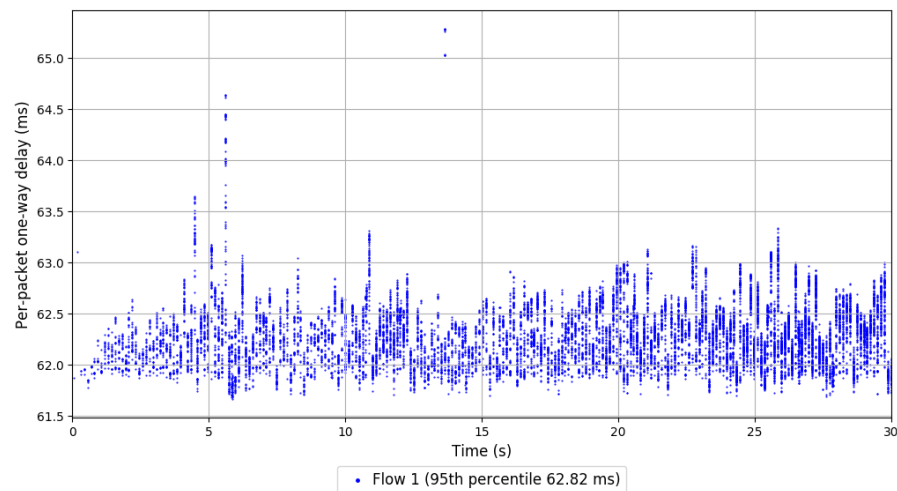
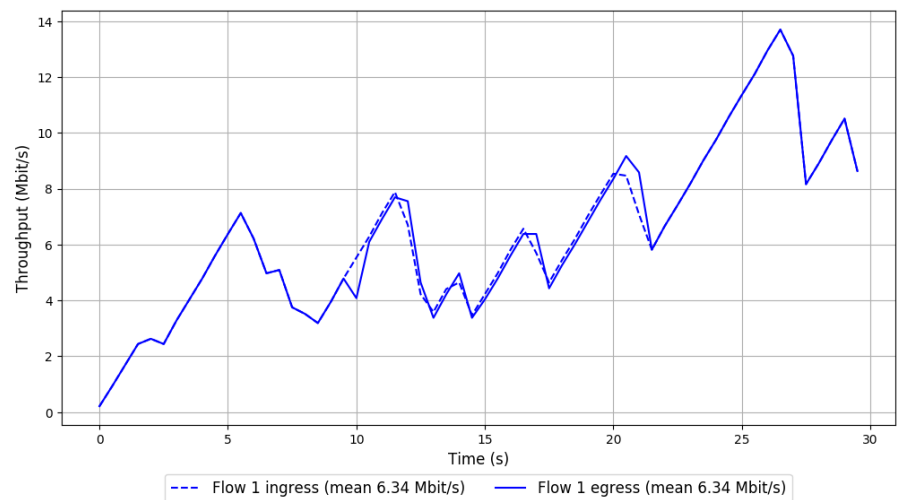
-- Flow 1:

Average throughput: 6.34 Mbit/s

95th percentile per-packet one-way delay: 62.824 ms

Loss rate: 0.00%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-02-13 15:51:46

End at: 2018-02-13 15:52:16

Below is generated by plot.py at 2018-02-13 17:40:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.92 Mbit/s

95th percentile per-packet one-way delay: 64.482 ms

Loss rate: 0.02%

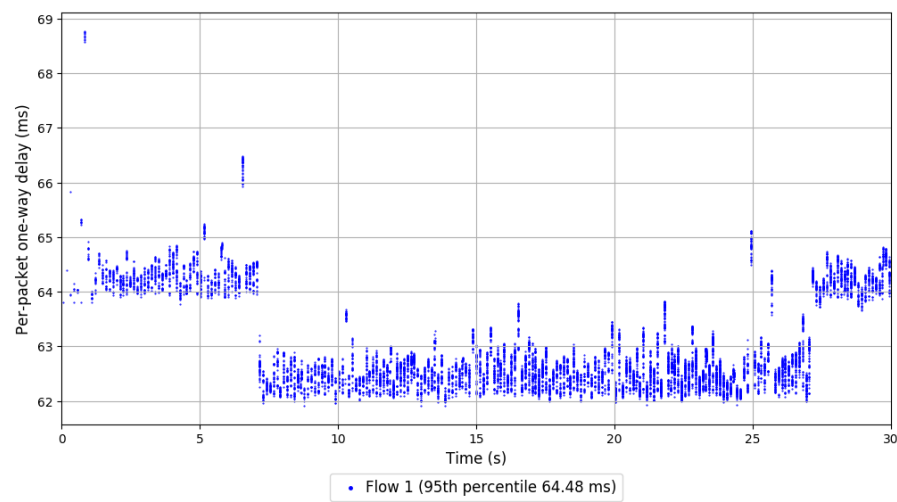
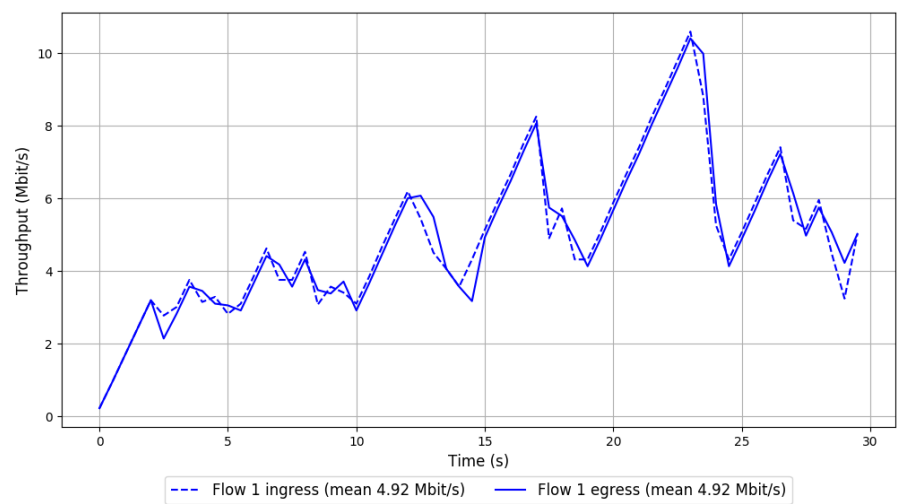
-- Flow 1:

Average throughput: 4.92 Mbit/s

95th percentile per-packet one-way delay: 64.482 ms

Loss rate: 0.02%

Run 10: Report of LEDBAT — Data Link

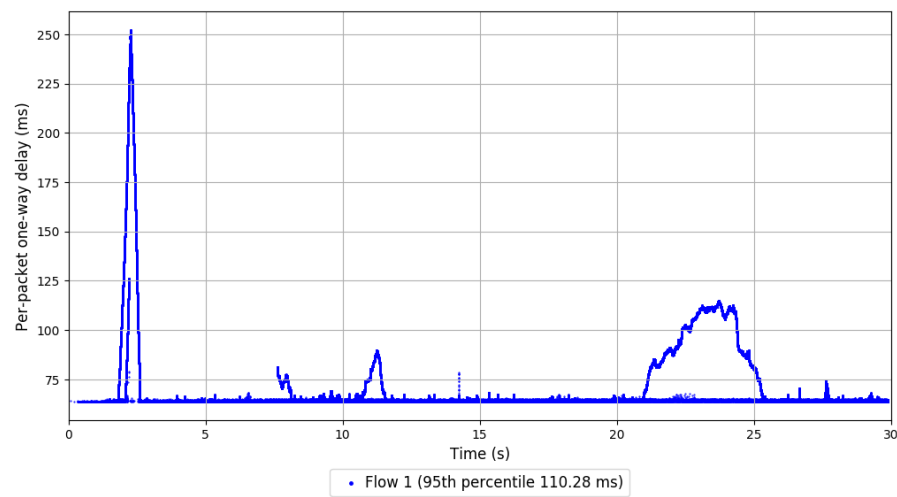
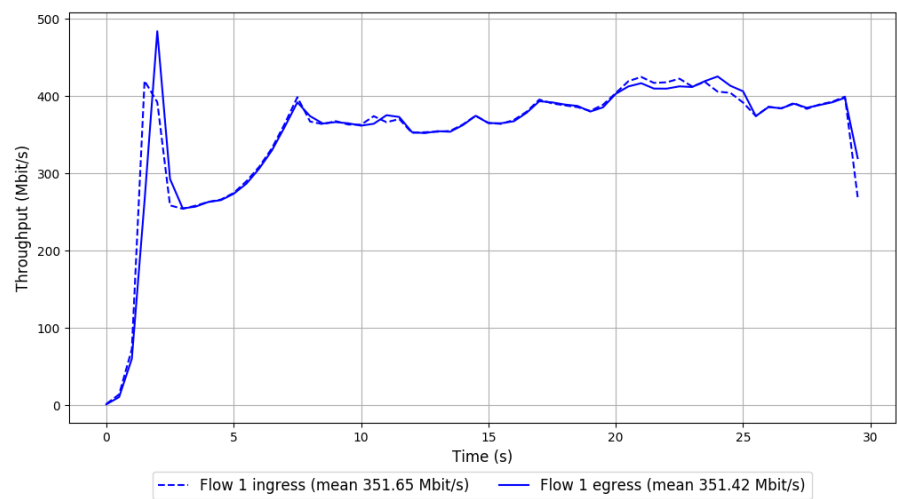


```
Run 1: Statistics of PCC

Start at: 2018-02-13 13:35:57
End at: 2018-02-13 13:36:27

# Below is generated by plot.py at 2018-02-13 17:43:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 351.42 Mbit/s
95th percentile per-packet one-way delay: 110.278 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 351.42 Mbit/s
95th percentile per-packet one-way delay: 110.278 ms
Loss rate: 0.07%
```

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2018-02-13 13:50:38

End at: 2018-02-13 13:51:08

Below is generated by plot.py at 2018-02-13 17:43:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 344.74 Mbit/s

95th percentile per-packet one-way delay: 94.326 ms

Loss rate: 0.10%

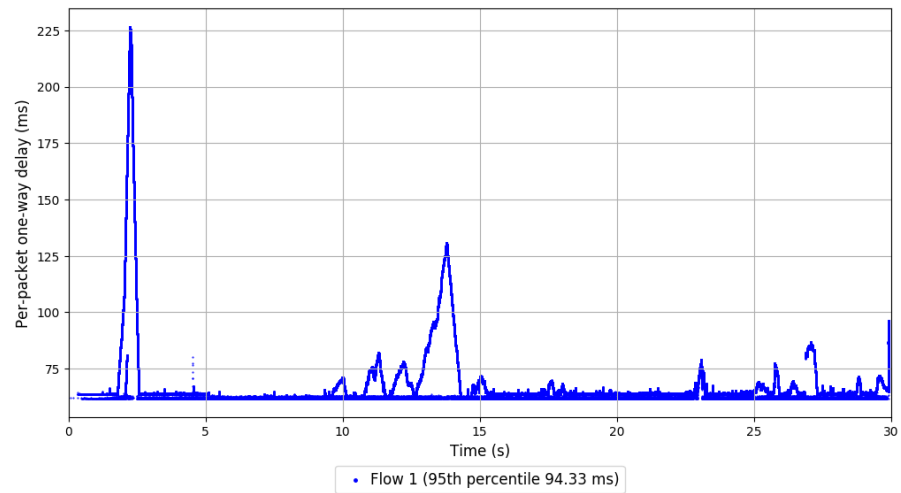
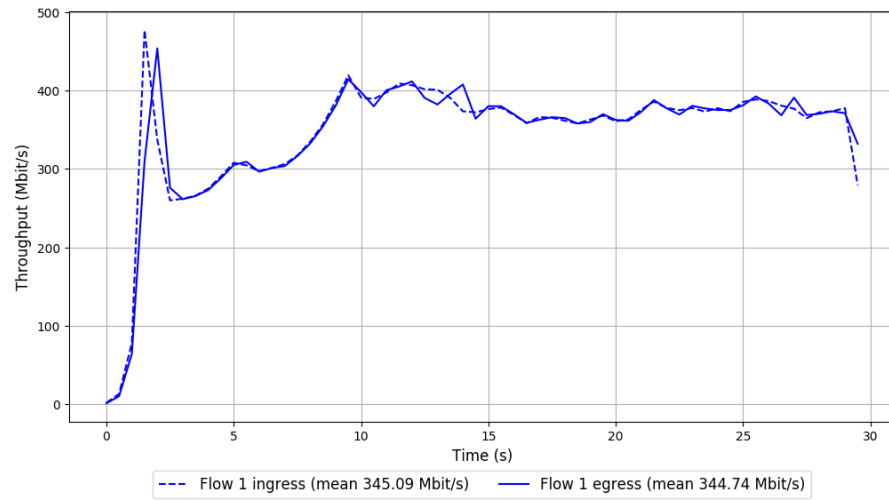
-- Flow 1:

Average throughput: 344.74 Mbit/s

95th percentile per-packet one-way delay: 94.326 ms

Loss rate: 0.10%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2018-02-13 14:05:22

End at: 2018-02-13 14:05:52

Below is generated by plot.py at 2018-02-13 17:44:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 363.80 Mbit/s

95th percentile per-packet one-way delay: 119.253 ms

Loss rate: 0.23%

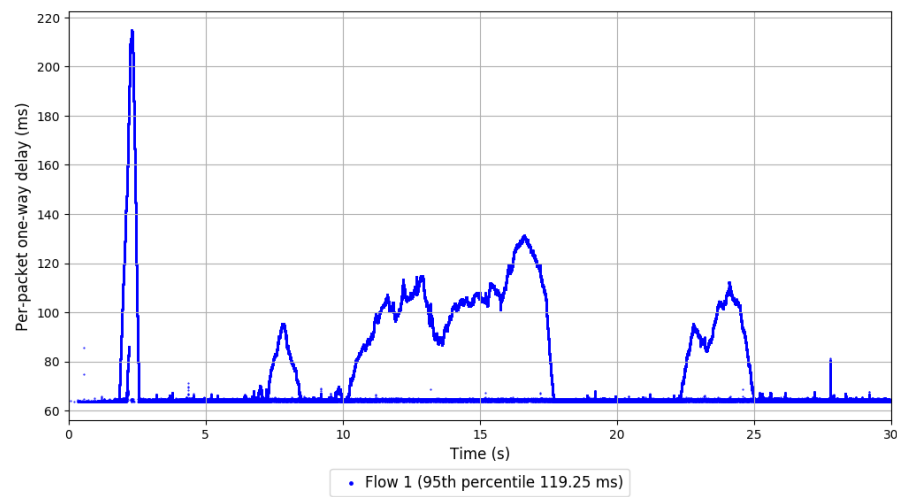
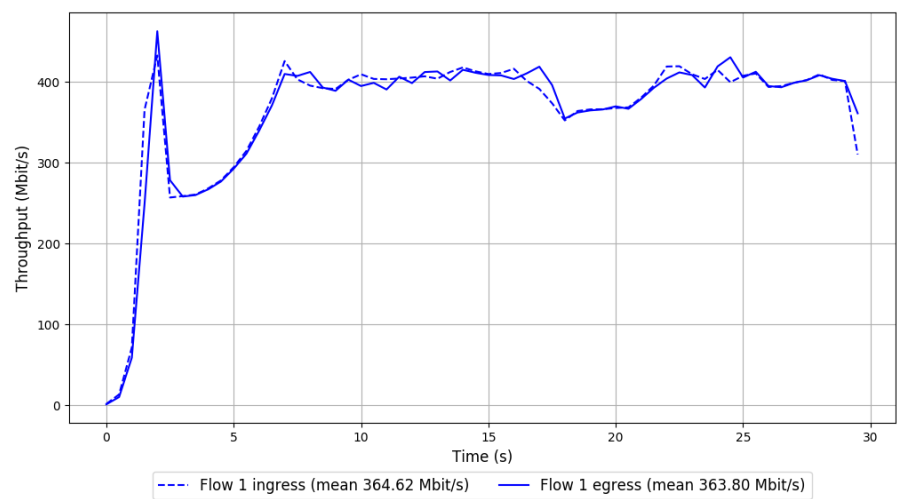
-- Flow 1:

Average throughput: 363.80 Mbit/s

95th percentile per-packet one-way delay: 119.253 ms

Loss rate: 0.23%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2018-02-13 14:20:06

End at: 2018-02-13 14:20:36

Below is generated by plot.py at 2018-02-13 17:44:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 341.44 Mbit/s

95th percentile per-packet one-way delay: 108.317 ms

Loss rate: 0.12%

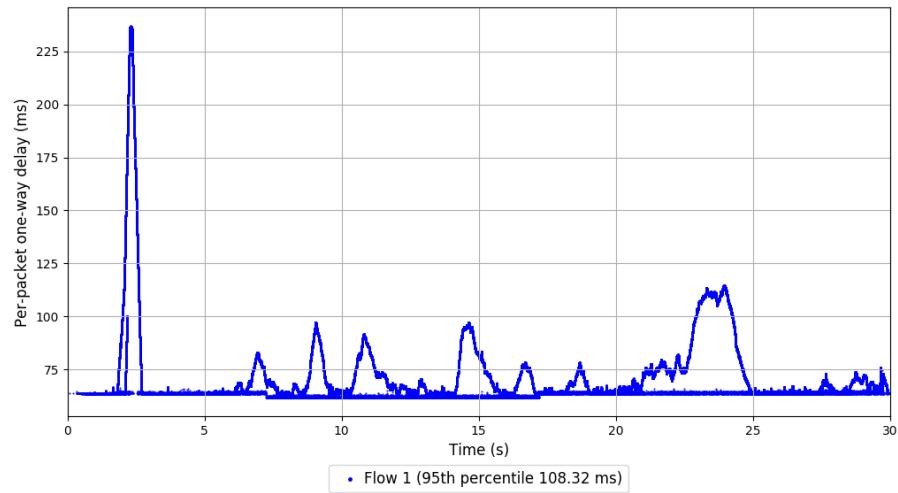
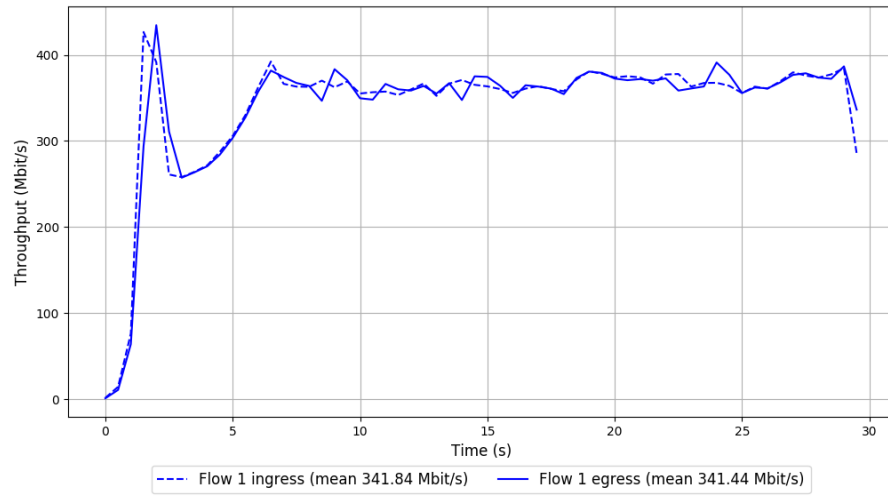
-- Flow 1:

Average throughput: 341.44 Mbit/s

95th percentile per-packet one-way delay: 108.317 ms

Loss rate: 0.12%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2018-02-13 14:34:52

End at: 2018-02-13 14:35:22

Below is generated by plot.py at 2018-02-13 17:45:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 366.84 Mbit/s

95th percentile per-packet one-way delay: 238.787 ms

Loss rate: 1.83%

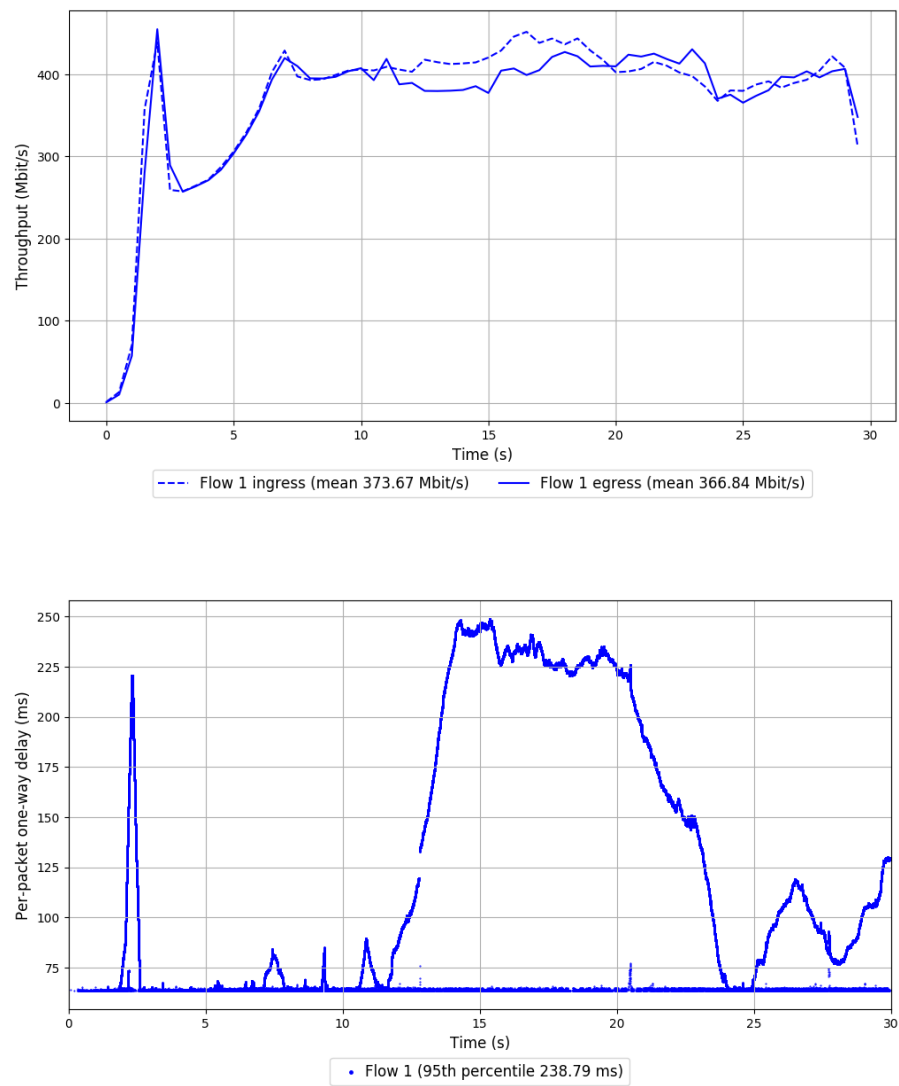
-- Flow 1:

Average throughput: 366.84 Mbit/s

95th percentile per-packet one-way delay: 238.787 ms

Loss rate: 1.83%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2018-02-13 14:49:43

End at: 2018-02-13 14:50:13

Below is generated by plot.py at 2018-02-13 17:45:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 328.71 Mbit/s

95th percentile per-packet one-way delay: 103.739 ms

Loss rate: 0.12%

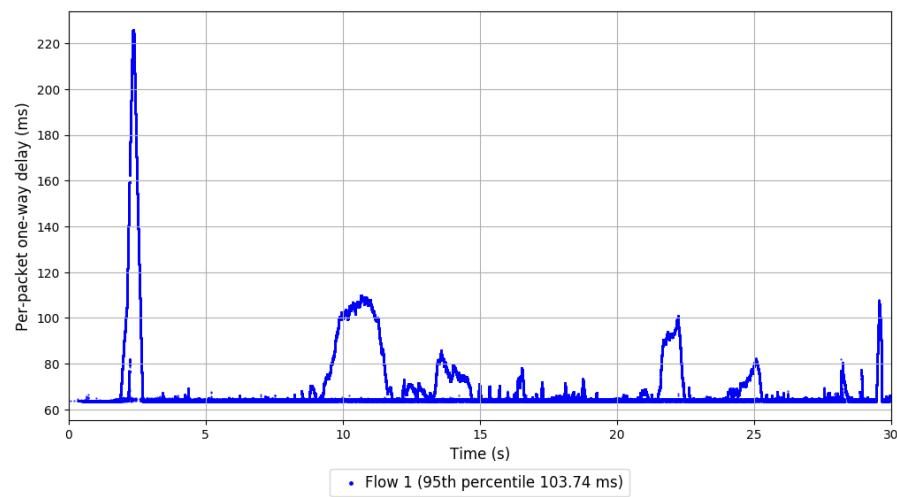
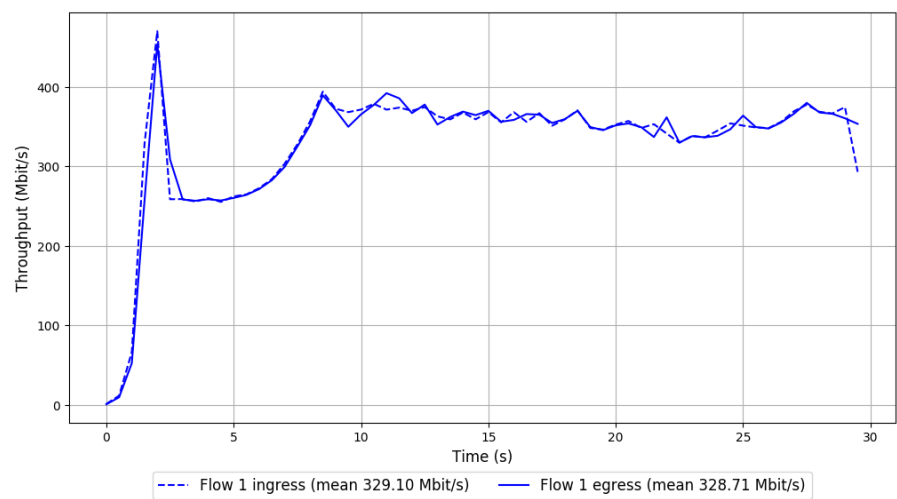
-- Flow 1:

Average throughput: 328.71 Mbit/s

95th percentile per-packet one-way delay: 103.739 ms

Loss rate: 0.12%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2018-02-13 15:04:24

End at: 2018-02-13 15:04:54

Below is generated by plot.py at 2018-02-13 17:45:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 346.49 Mbit/s

95th percentile per-packet one-way delay: 71.918 ms

Loss rate: 0.18%

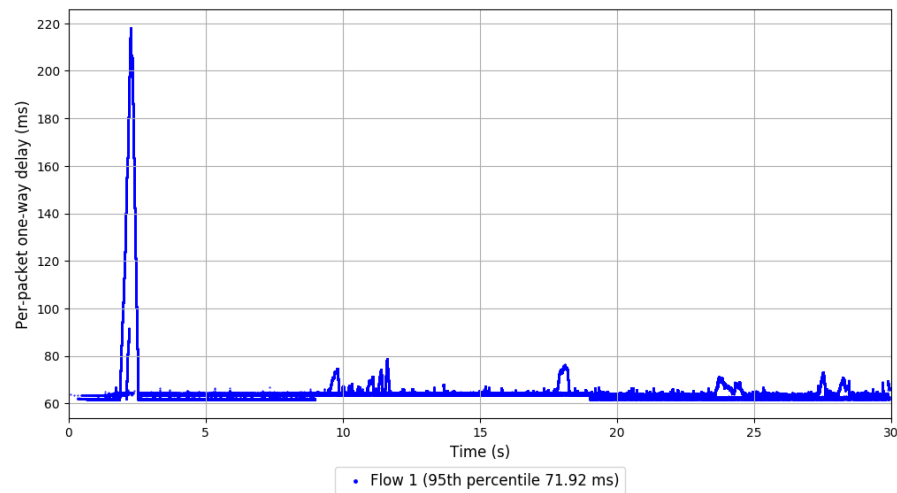
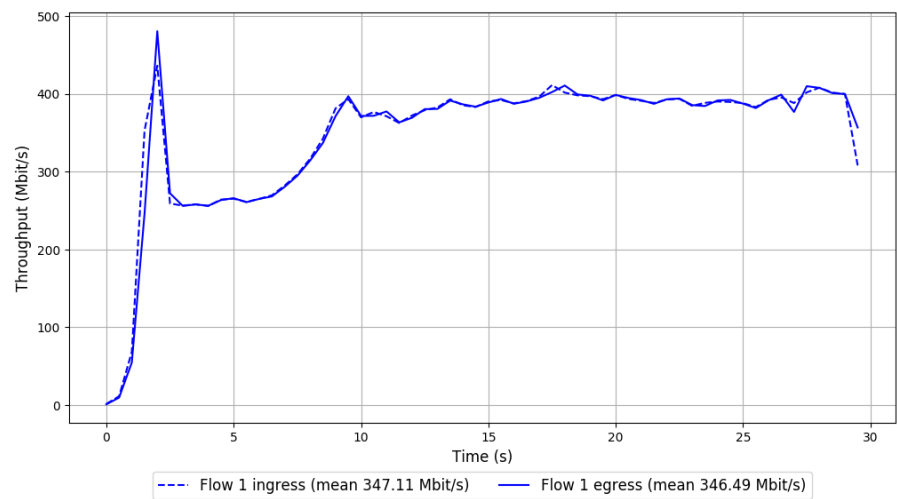
-- Flow 1:

Average throughput: 346.49 Mbit/s

95th percentile per-packet one-way delay: 71.918 ms

Loss rate: 0.18%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2018-02-13 15:19:11

End at: 2018-02-13 15:19:41

Below is generated by plot.py at 2018-02-13 17:45:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 344.55 Mbit/s

95th percentile per-packet one-way delay: 99.109 ms

Loss rate: 0.12%

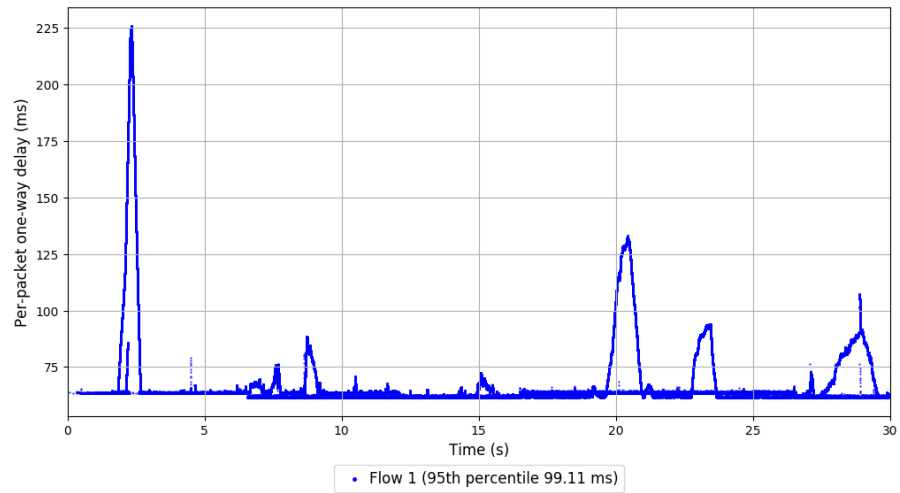
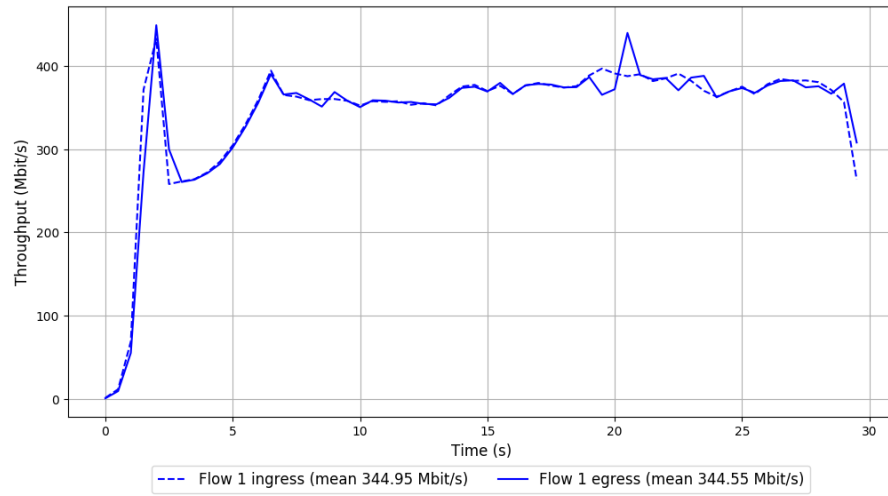
-- Flow 1:

Average throughput: 344.55 Mbit/s

95th percentile per-packet one-way delay: 99.109 ms

Loss rate: 0.12%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2018-02-13 15:34:10

End at: 2018-02-13 15:34:40

Below is generated by plot.py at 2018-02-13 17:49:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 353.13 Mbit/s

95th percentile per-packet one-way delay: 189.903 ms

Loss rate: 0.47%

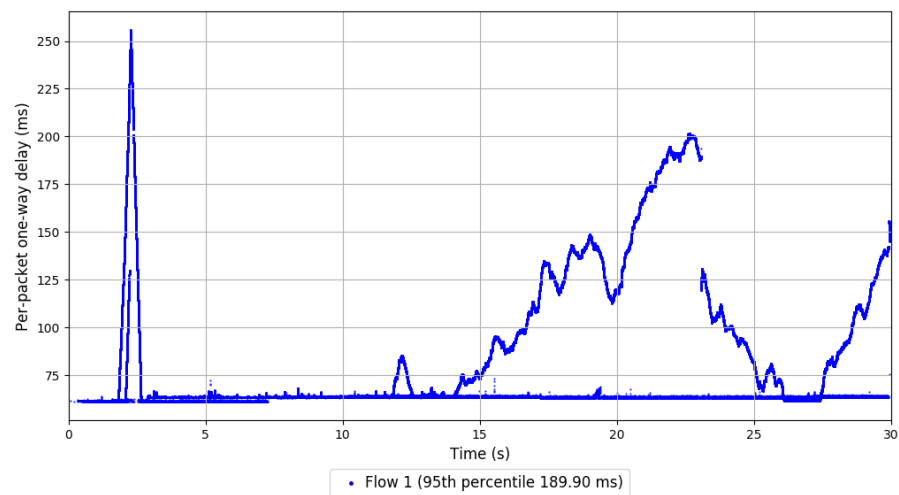
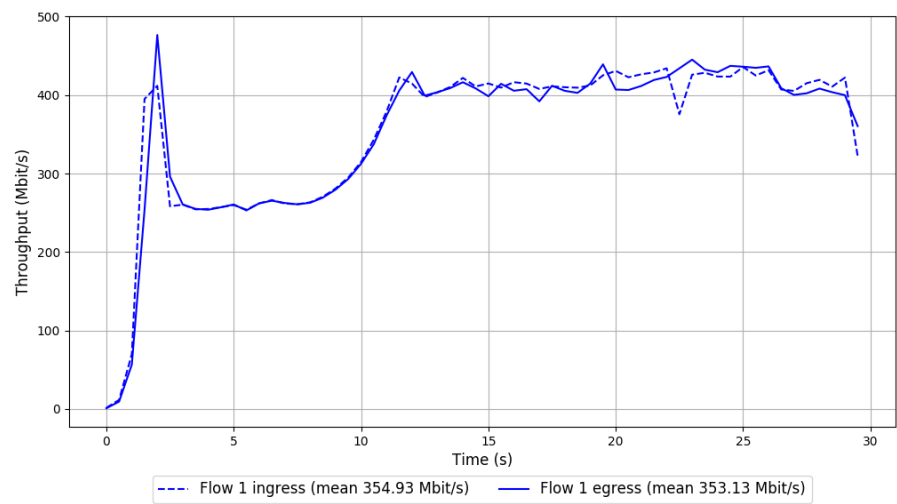
-- Flow 1:

Average throughput: 353.13 Mbit/s

95th percentile per-packet one-way delay: 189.903 ms

Loss rate: 0.47%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2018-02-13 15:49:07

End at: 2018-02-13 15:49:37

Below is generated by plot.py at 2018-02-13 17:49:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 364.09 Mbit/s

95th percentile per-packet one-way delay: 120.143 ms

Loss rate: 0.06%

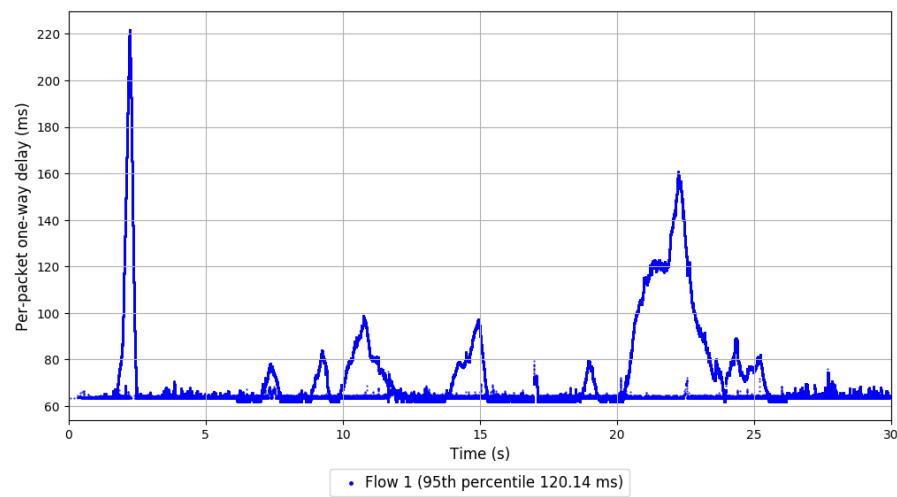
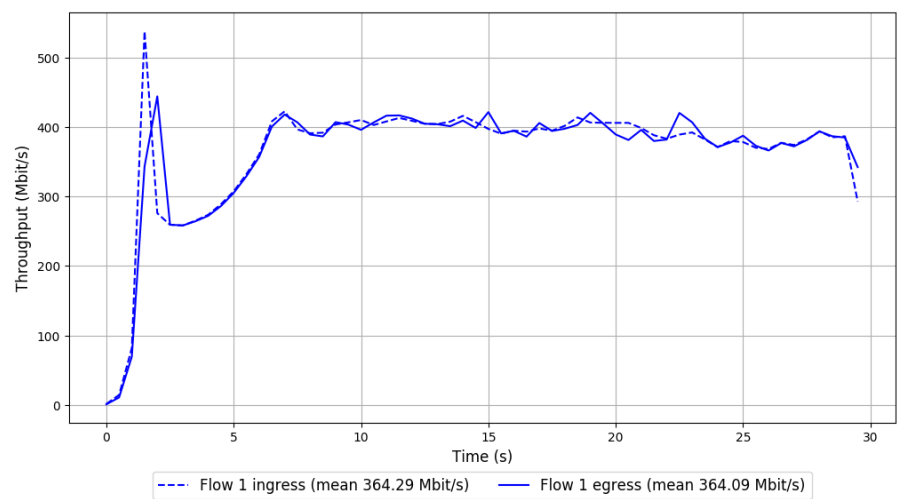
-- Flow 1:

Average throughput: 364.09 Mbit/s

95th percentile per-packet one-way delay: 120.143 ms

Loss rate: 0.06%

Run 10: Report of PCC — Data Link

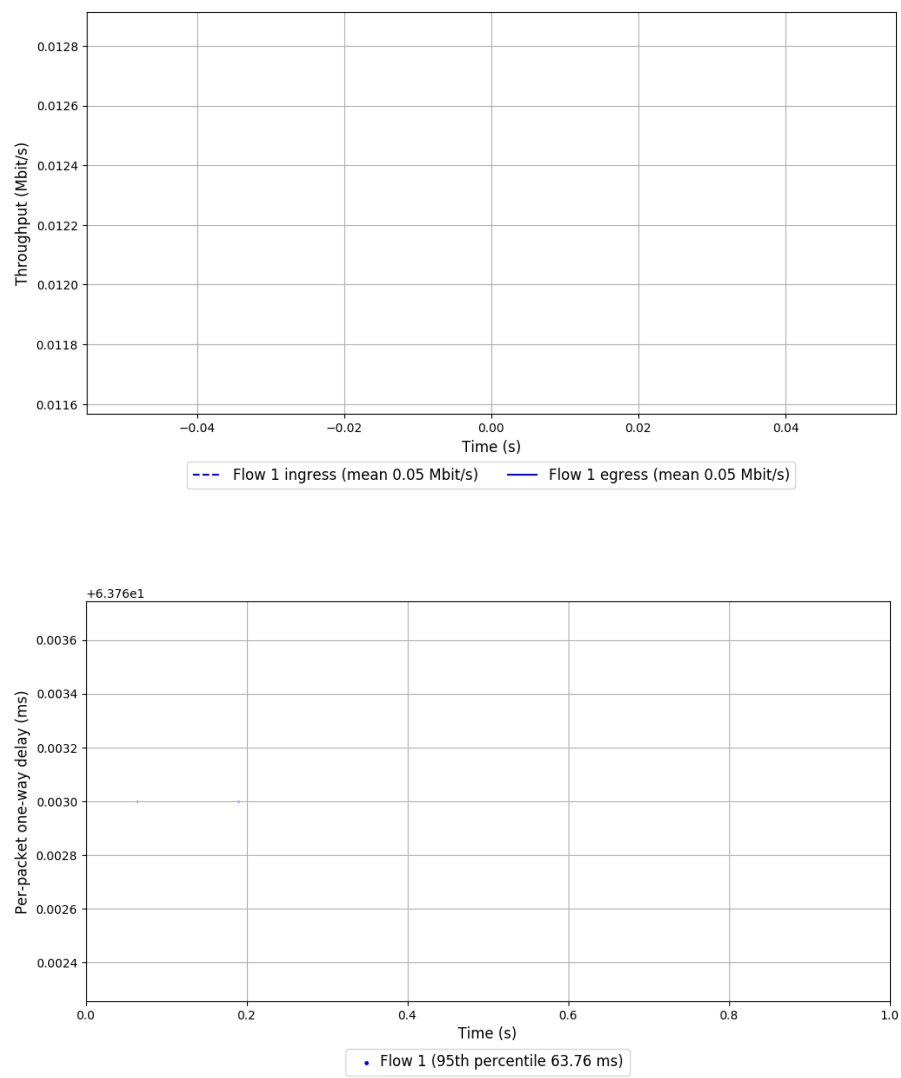


Run 1: Statistics of QUIC Cubic

Start at: 2018-02-13 13:39:14

End at: 2018-02-13 13:39:44

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-02-13 13:53:55

End at: 2018-02-13 13:54:25

Below is generated by plot.py at 2018-02-13 17:49:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 53.69 Mbit/s

95th percentile per-packet one-way delay: 63.784 ms

Loss rate: 0.01%

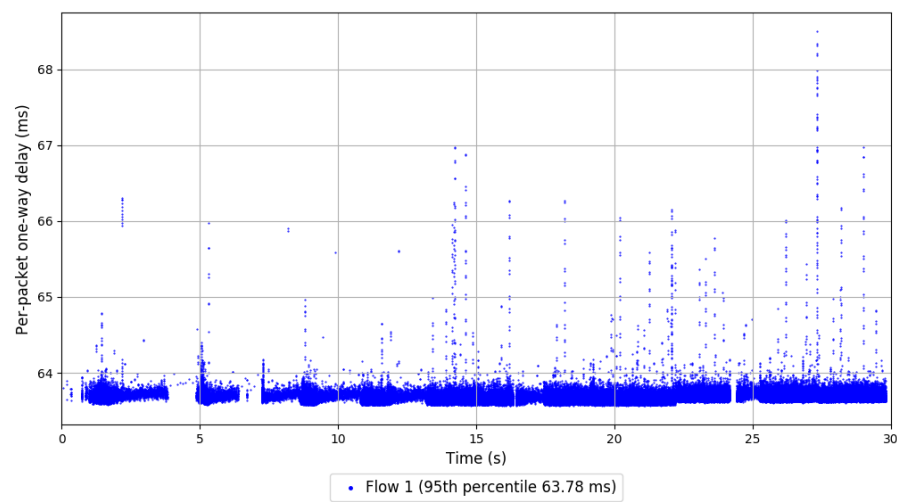
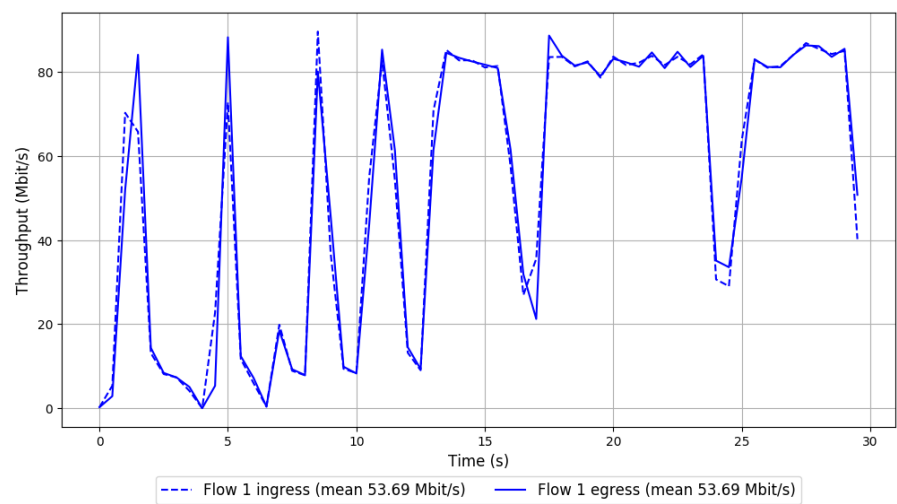
-- Flow 1:

Average throughput: 53.69 Mbit/s

95th percentile per-packet one-way delay: 63.784 ms

Loss rate: 0.01%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-02-13 14:08:40

End at: 2018-02-13 14:09:10

Below is generated by plot.py at 2018-02-13 17:49:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 58.25 Mbit/s

95th percentile per-packet one-way delay: 63.745 ms

Loss rate: 0.00%

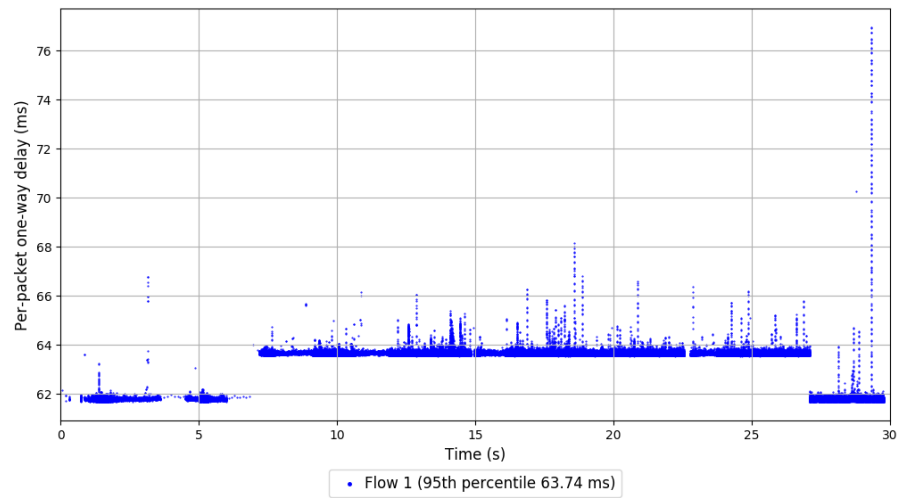
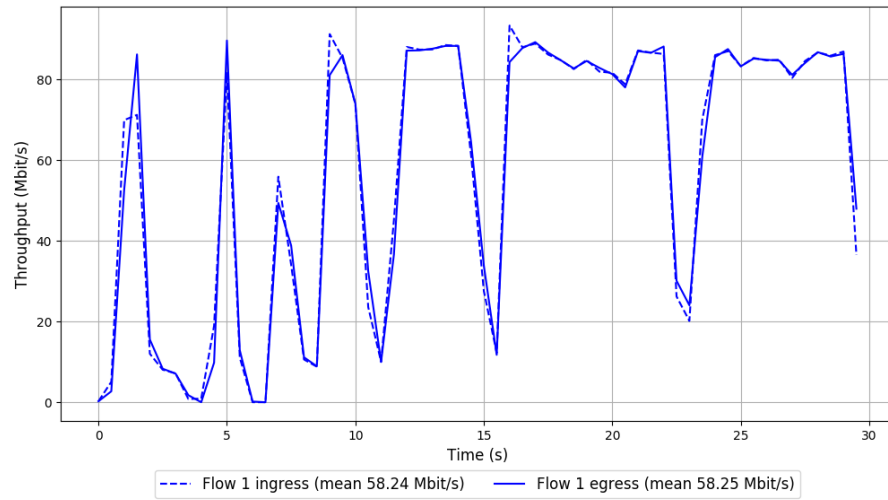
-- Flow 1:

Average throughput: 58.25 Mbit/s

95th percentile per-packet one-way delay: 63.745 ms

Loss rate: 0.00%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-02-13 14:23:20

End at: 2018-02-13 14:23:50

Below is generated by plot.py at 2018-02-13 17:49:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 48.91 Mbit/s

95th percentile per-packet one-way delay: 61.899 ms

Loss rate: 0.00%

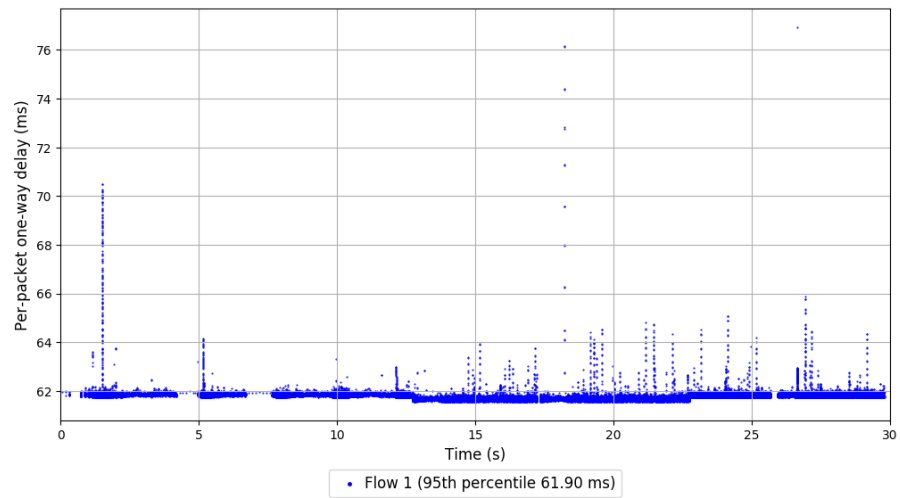
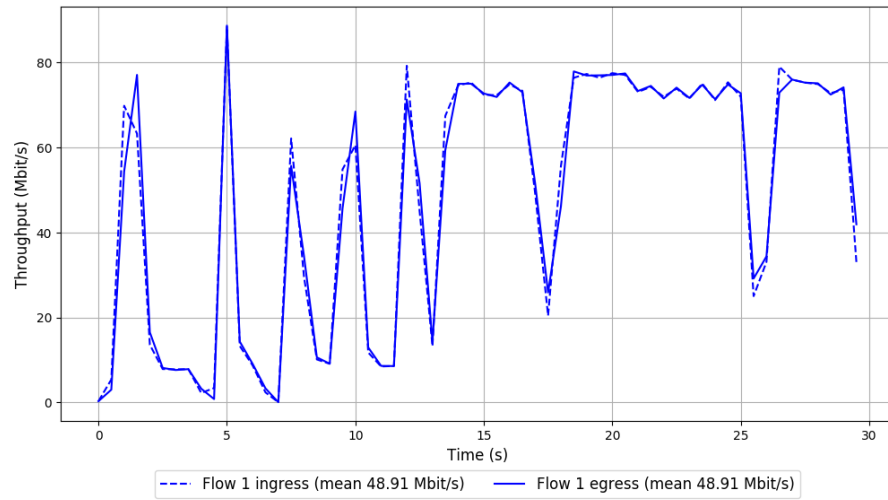
-- Flow 1:

Average throughput: 48.91 Mbit/s

95th percentile per-packet one-way delay: 61.899 ms

Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-02-13 14:38:07

End at: 2018-02-13 14:38:37

Below is generated by plot.py at 2018-02-13 17:49:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 52.71 Mbit/s

95th percentile per-packet one-way delay: 63.646 ms

Loss rate: 0.00%

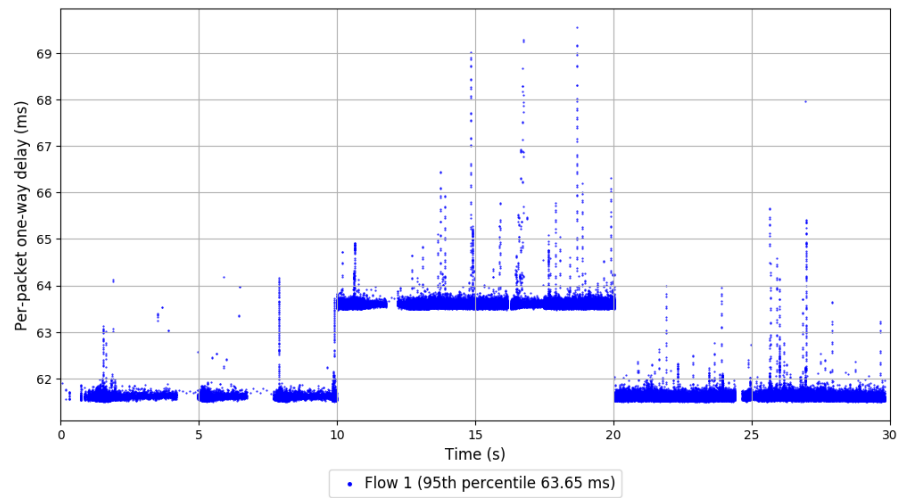
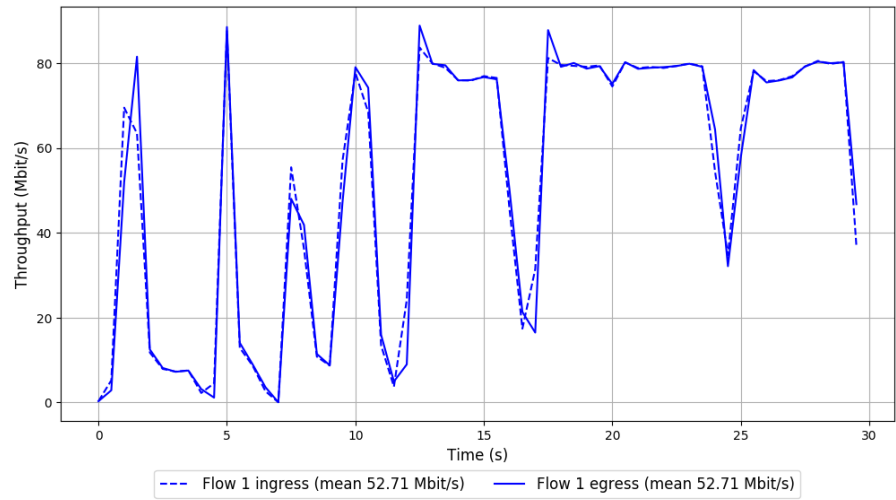
-- Flow 1:

Average throughput: 52.71 Mbit/s

95th percentile per-packet one-way delay: 63.646 ms

Loss rate: 0.00%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-02-13 14:52:55

End at: 2018-02-13 14:53:25

Below is generated by plot.py at 2018-02-13 17:49:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 56.15 Mbit/s

95th percentile per-packet one-way delay: 63.609 ms

Loss rate: 0.00%

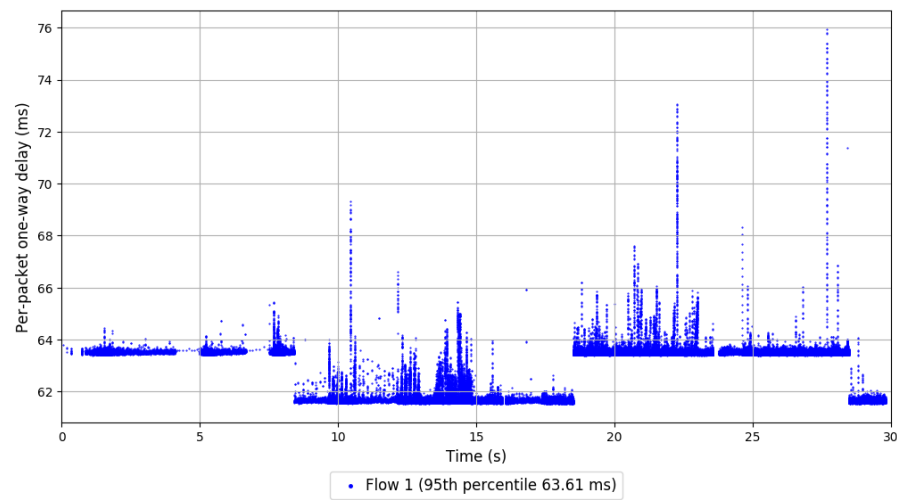
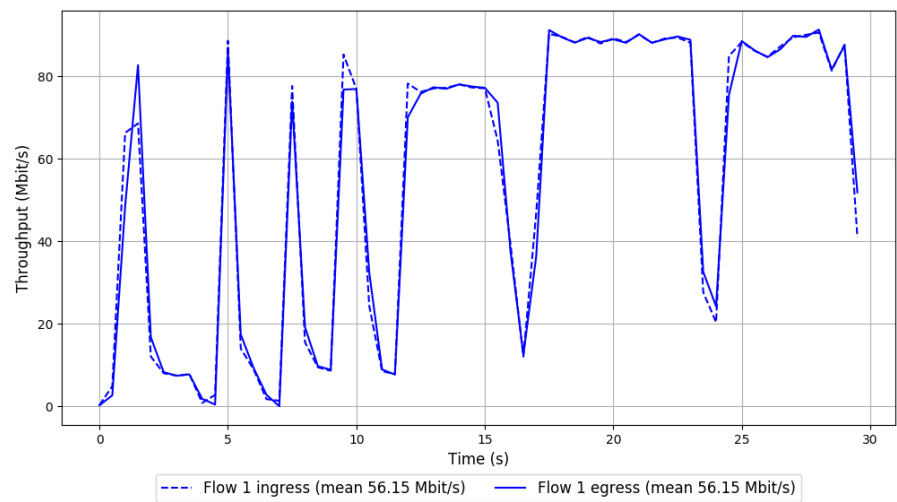
-- Flow 1:

Average throughput: 56.15 Mbit/s

95th percentile per-packet one-way delay: 63.609 ms

Loss rate: 0.00%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-02-13 15:07:38

End at: 2018-02-13 15:08:08

Below is generated by plot.py at 2018-02-13 17:49:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 58.55 Mbit/s

95th percentile per-packet one-way delay: 63.554 ms

Loss rate: 0.00%

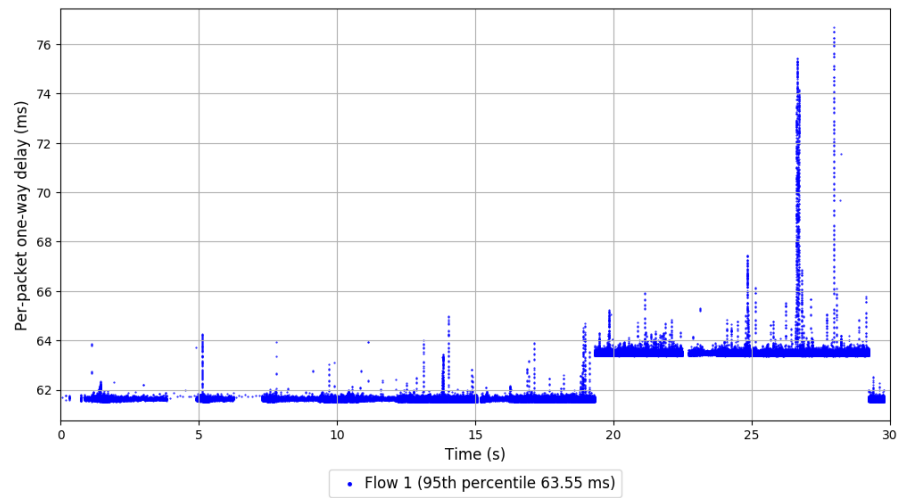
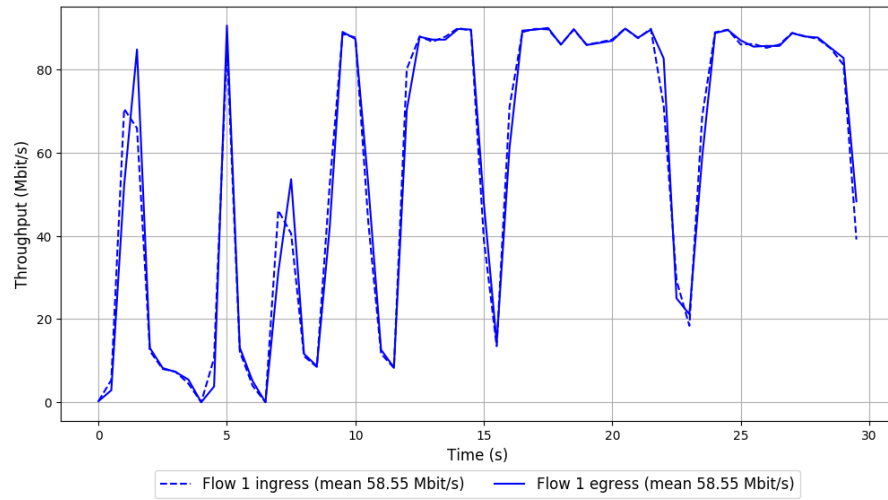
-- Flow 1:

Average throughput: 58.55 Mbit/s

95th percentile per-packet one-way delay: 63.554 ms

Loss rate: 0.00%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-02-13 15:22:30

End at: 2018-02-13 15:23:00

Below is generated by plot.py at 2018-02-13 17:49:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 57.16 Mbit/s

95th percentile per-packet one-way delay: 63.636 ms

Loss rate: 0.00%

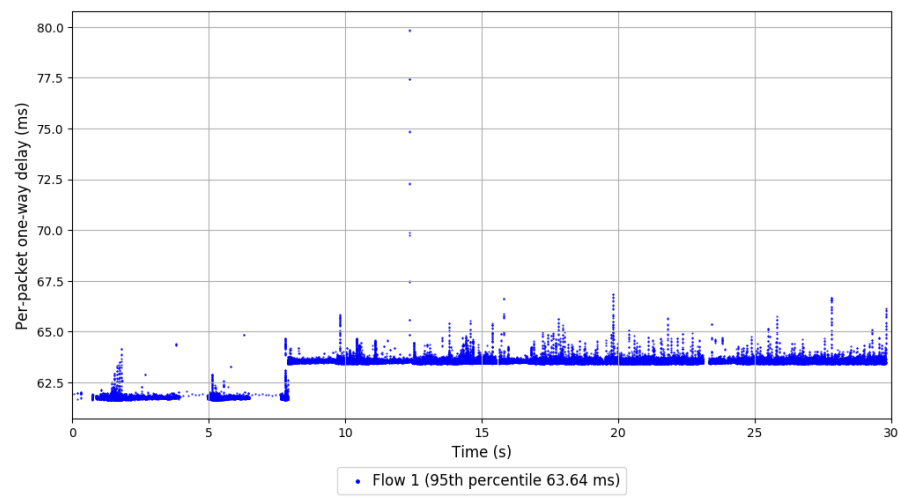
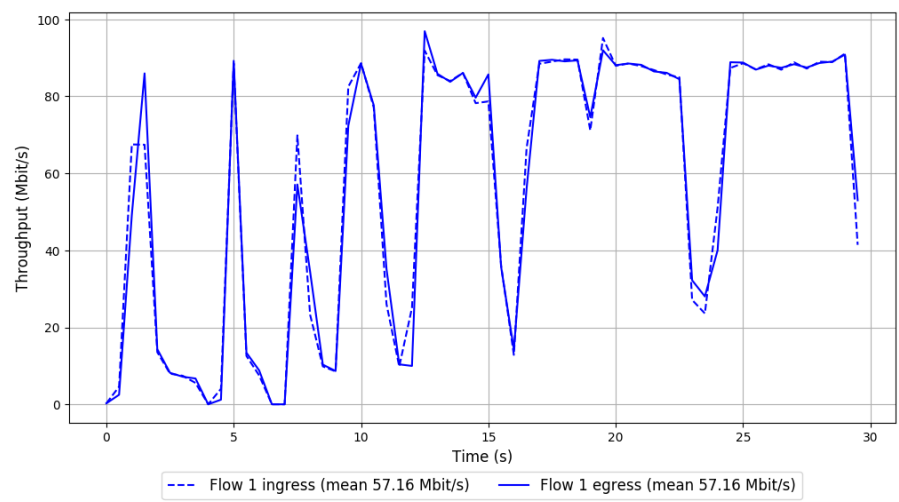
-- Flow 1:

Average throughput: 57.16 Mbit/s

95th percentile per-packet one-way delay: 63.636 ms

Loss rate: 0.00%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-02-13 15:37:28

End at: 2018-02-13 15:37:58

Below is generated by plot.py at 2018-02-13 17:49:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 51.71 Mbit/s

95th percentile per-packet one-way delay: 63.390 ms

Loss rate: 0.00%

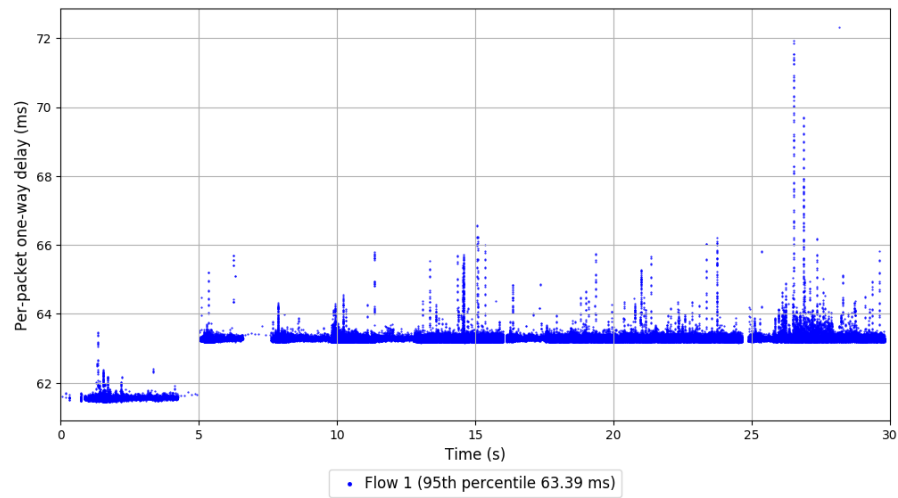
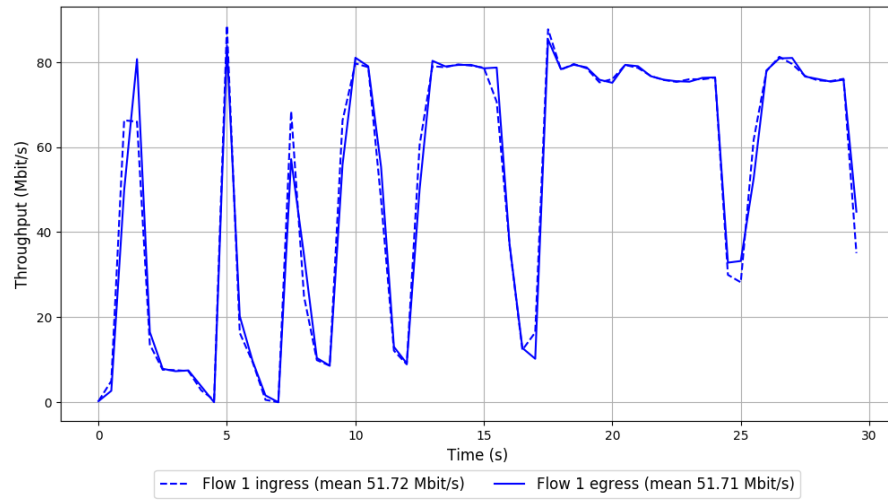
-- Flow 1:

Average throughput: 51.71 Mbit/s

95th percentile per-packet one-way delay: 63.390 ms

Loss rate: 0.00%

Run 9: Report of QUIC Cubic — Data Link

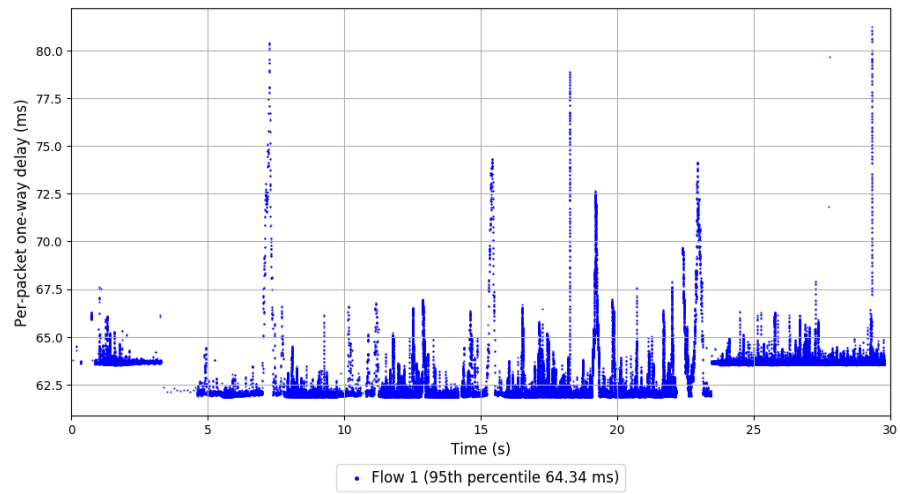
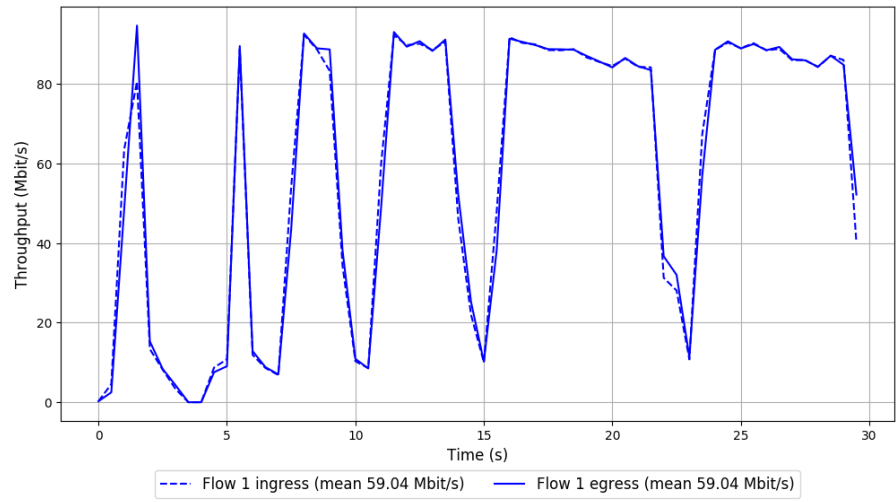


```
Run 10: Statistics of QUIC Cubic

Start at: 2018-02-13 15:52:24
End at: 2018-02-13 15:52:54

# Below is generated by plot.py at 2018-02-13 17:49:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 59.04 Mbit/s
95th percentile per-packet one-way delay: 64.345 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 59.04 Mbit/s
95th percentile per-packet one-way delay: 64.345 ms
Loss rate: 0.00%
```

Run 10: Report of QUIC Cubic — Data Link

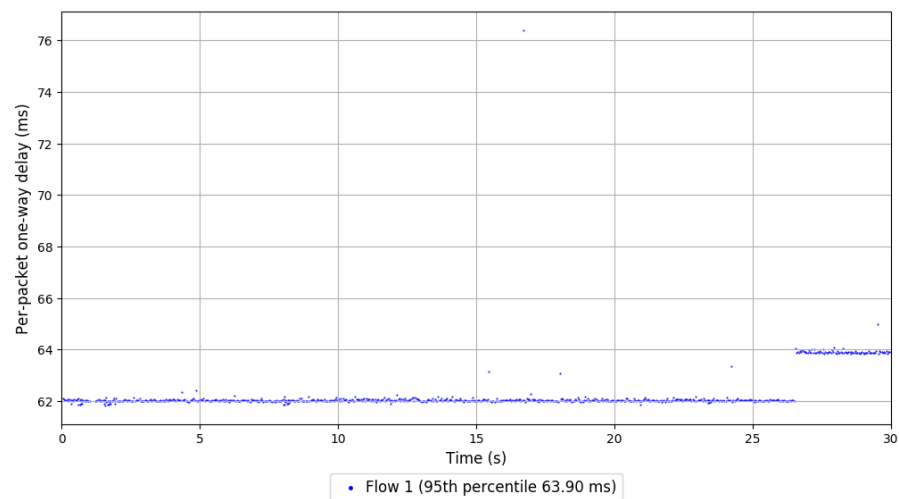
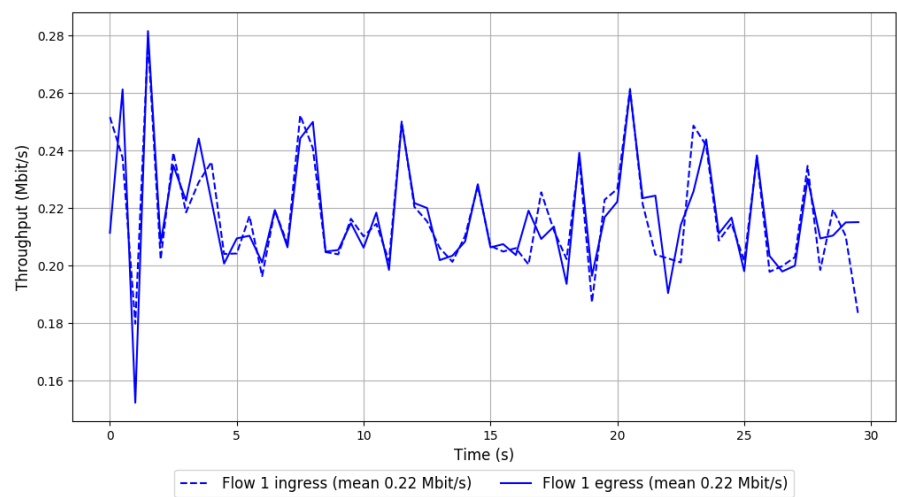


```
Run 1: Statistics of SCReAM

Start at: 2018-02-13 13:48:17
End at: 2018-02-13 13:48:47

# Below is generated by plot.py at 2018-02-13 17:49:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.897 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.897 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SCReAM

Start at: 2018-02-13 14:03:03

End at: 2018-02-13 14:03:33

Below is generated by plot.py at 2018-02-13 17:49:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.826 ms

Loss rate: 0.00%

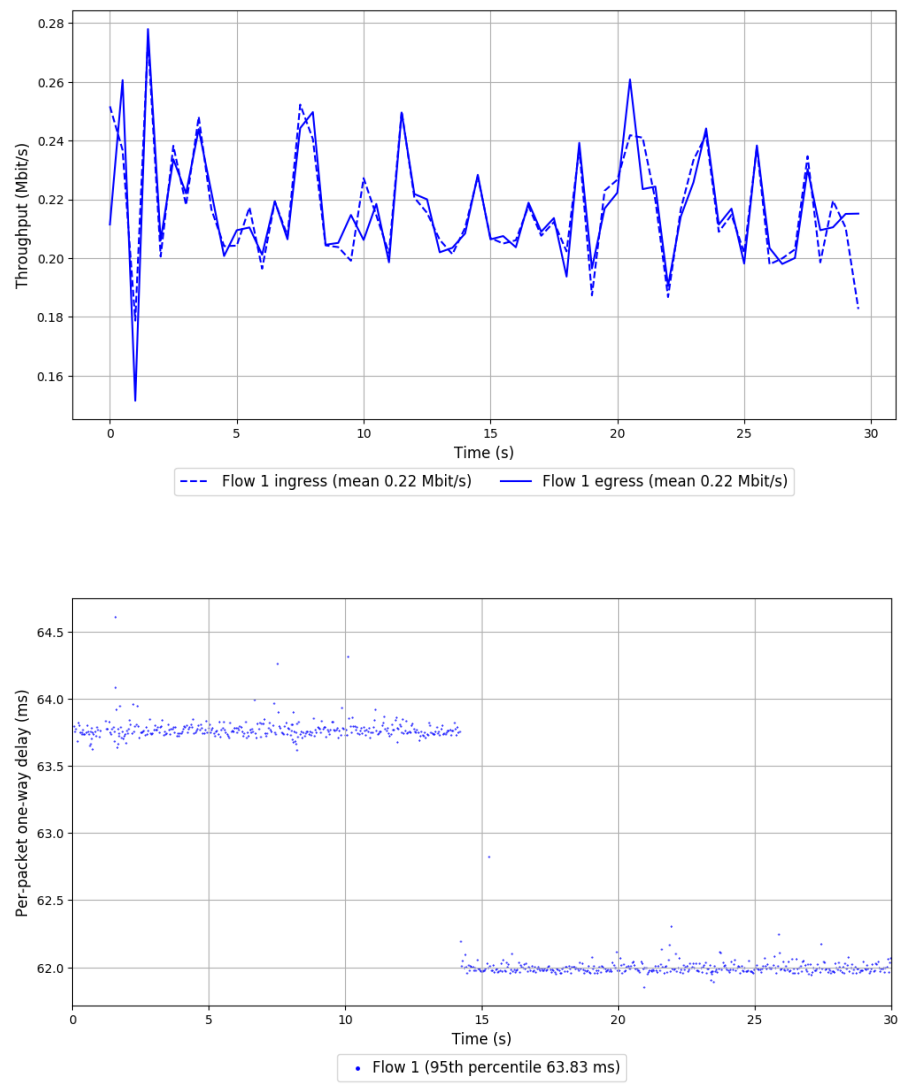
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.826 ms

Loss rate: 0.00%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-02-13 14:17:51

End at: 2018-02-13 14:18:21

Below is generated by plot.py at 2018-02-13 17:49:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.884 ms

Loss rate: 0.13%

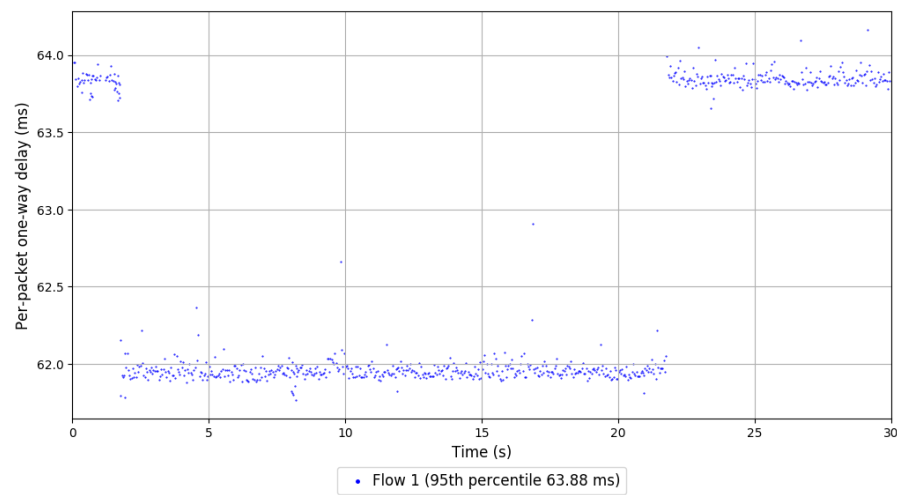
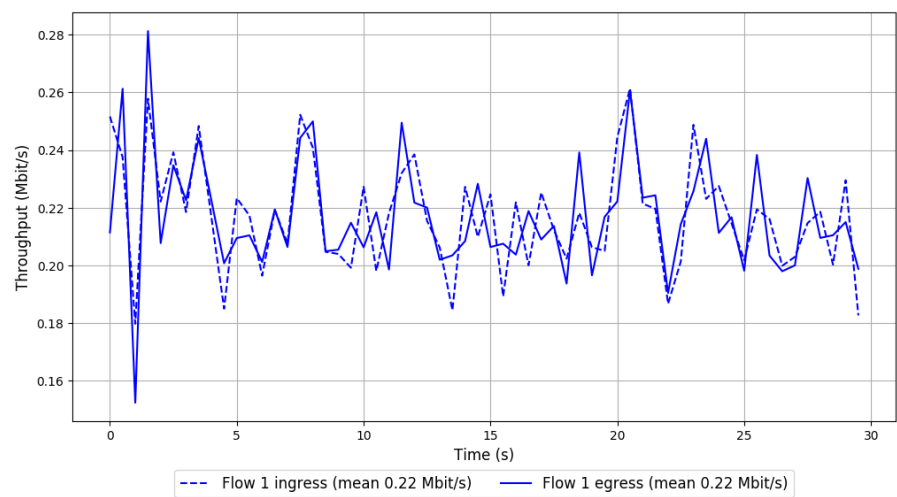
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.884 ms

Loss rate: 0.13%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2018-02-13 14:32:30

End at: 2018-02-13 14:33:00

Below is generated by plot.py at 2018-02-13 17:49:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.680 ms

Loss rate: 0.00%

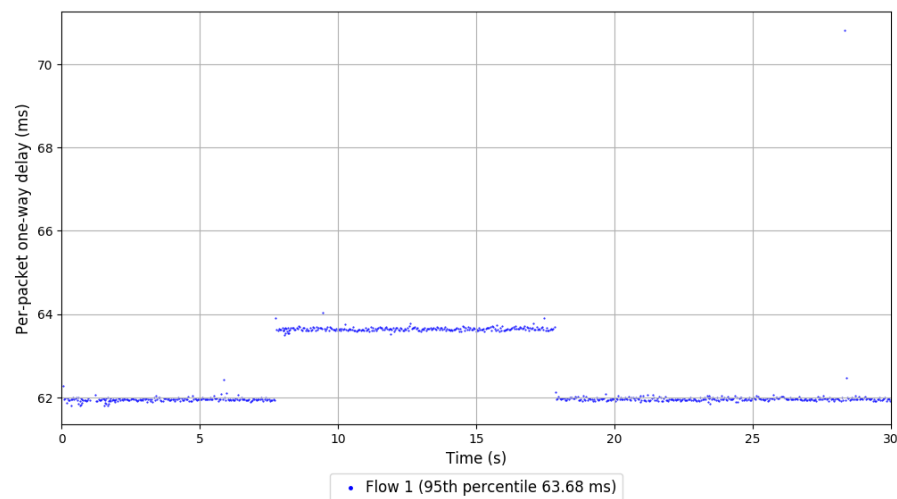
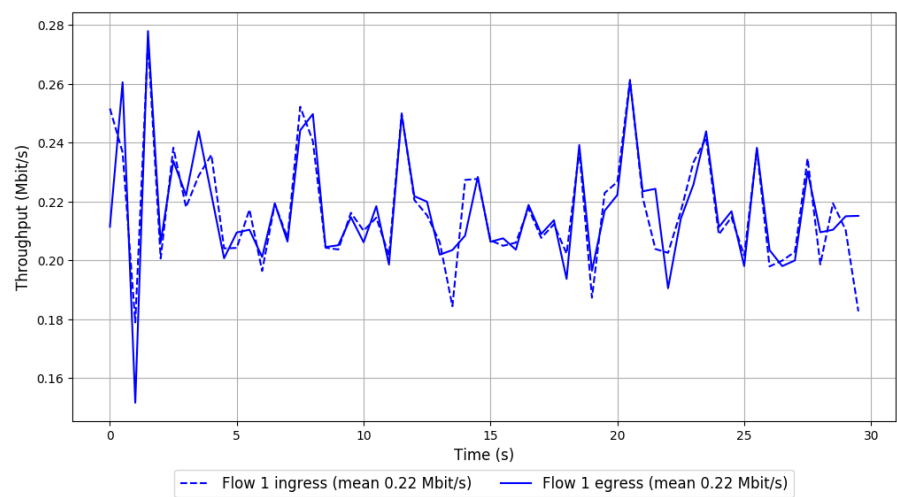
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.680 ms

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2018-02-13 14:47:25

End at: 2018-02-13 14:47:56

Below is generated by plot.py at 2018-02-13 17:49:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.703 ms

Loss rate: 0.00%

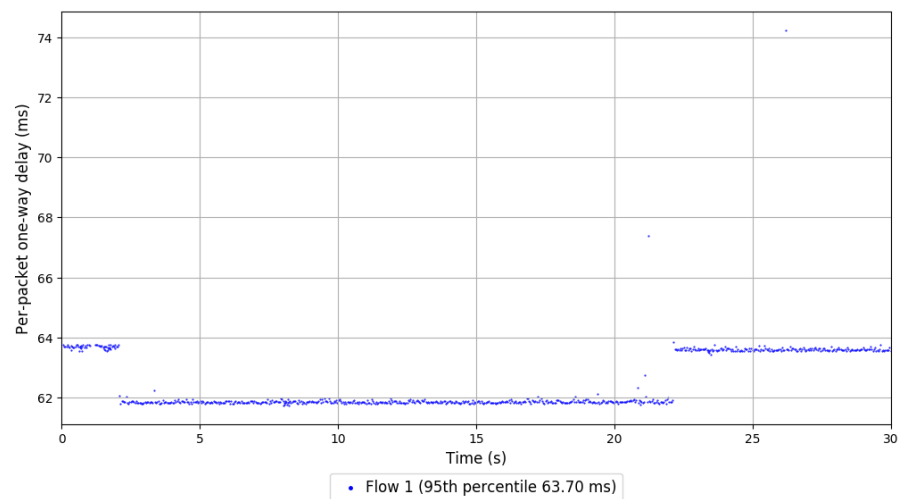
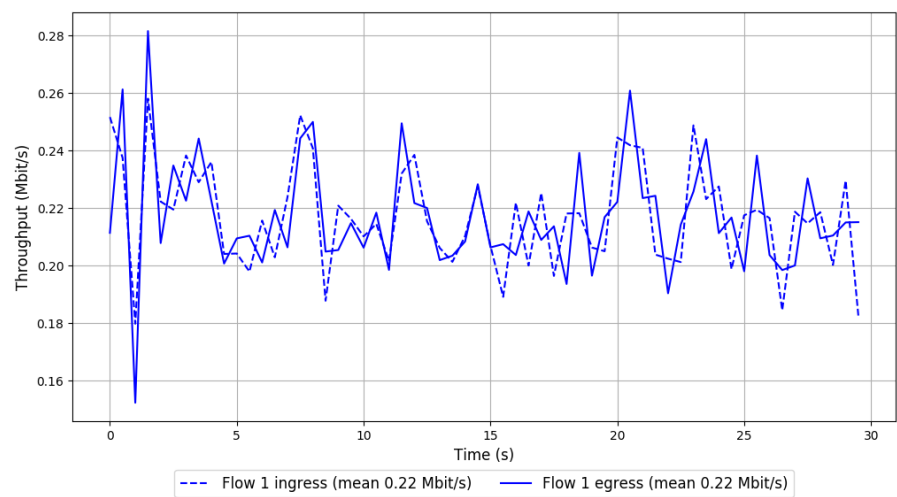
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.703 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-02-13 15:02:04

End at: 2018-02-13 15:02:34

Below is generated by plot.py at 2018-02-13 17:49:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.721 ms

Loss rate: 0.00%

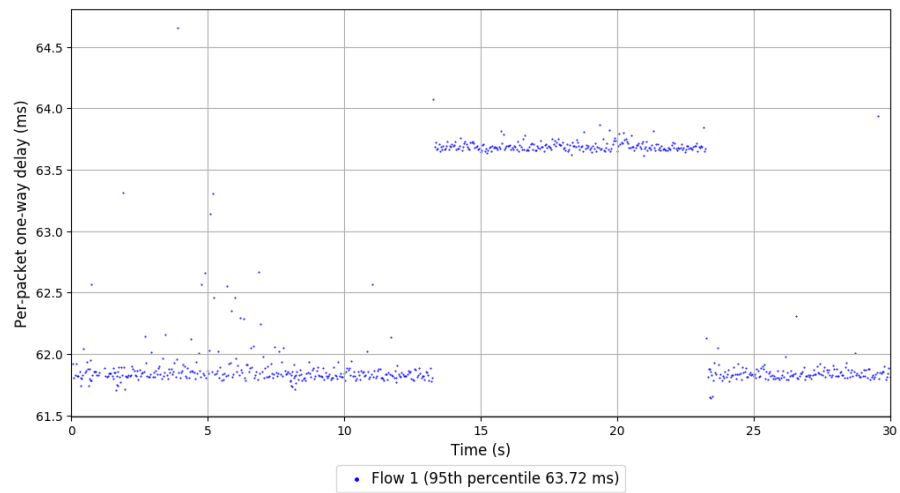
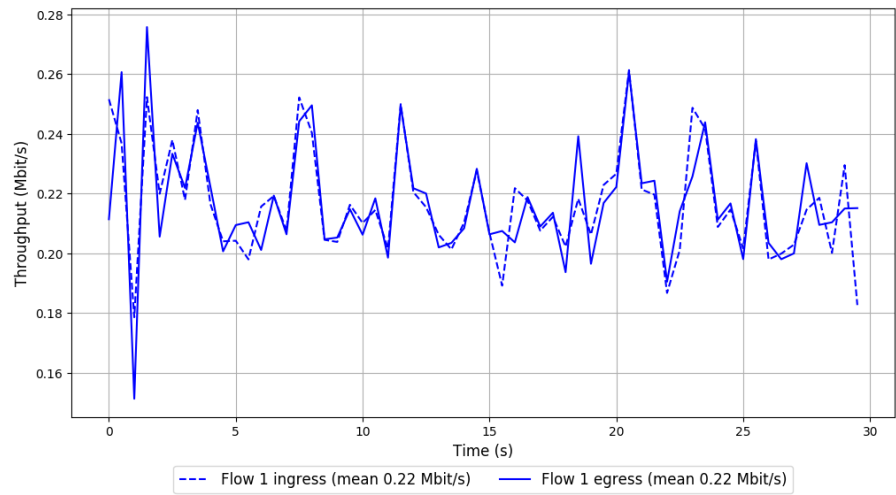
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.721 ms

Loss rate: 0.00%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2018-02-13 15:16:48

End at: 2018-02-13 15:17:18

Below is generated by plot.py at 2018-02-13 17:49:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.583 ms

Loss rate: 0.00%

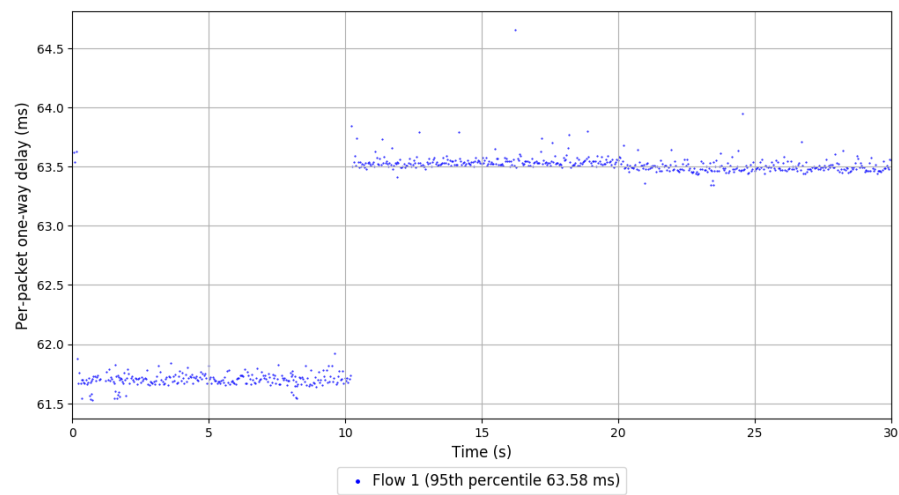
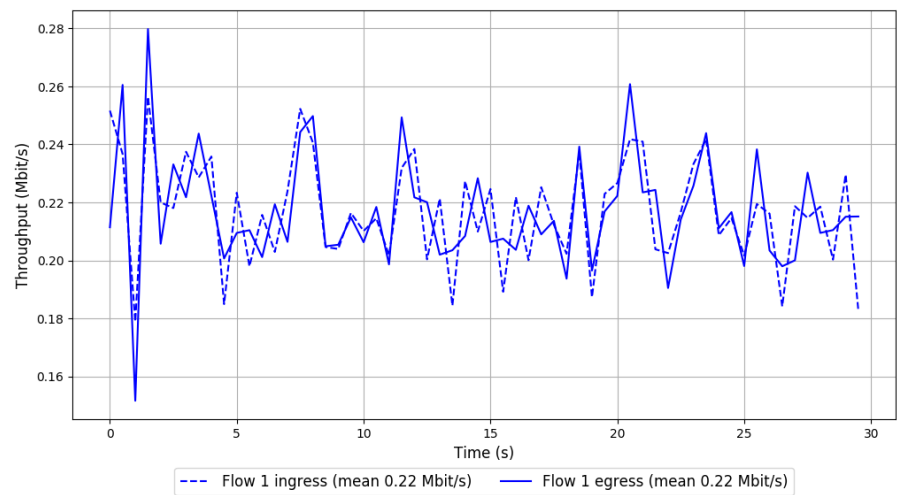
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.583 ms

Loss rate: 0.00%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-02-13 15:31:49

End at: 2018-02-13 15:32:19

Below is generated by plot.py at 2018-02-13 17:49:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.595 ms

Loss rate: 0.00%

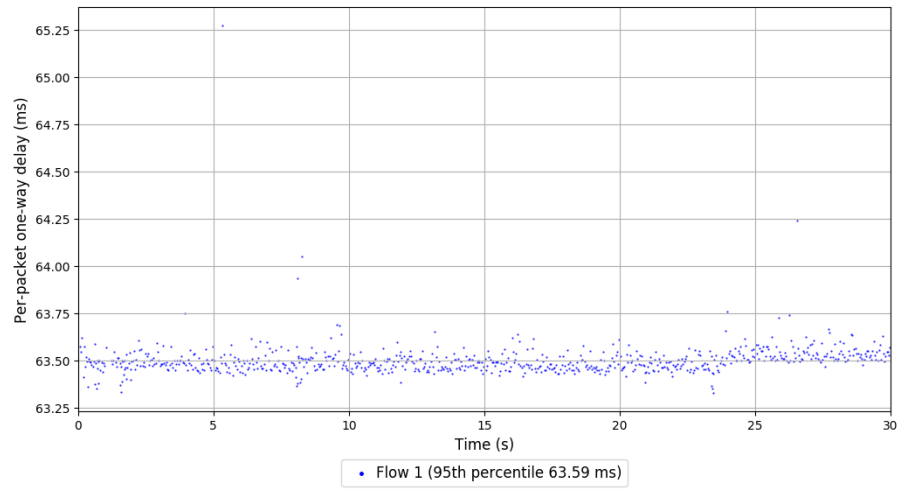
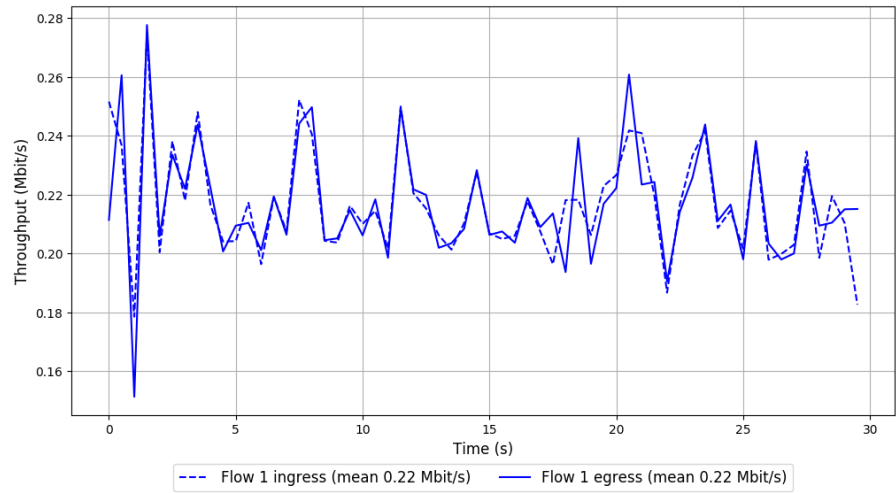
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.595 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-02-13 15:46:46

End at: 2018-02-13 15:47:16

Below is generated by plot.py at 2018-02-13 17:49:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.907 ms

Loss rate: 0.00%

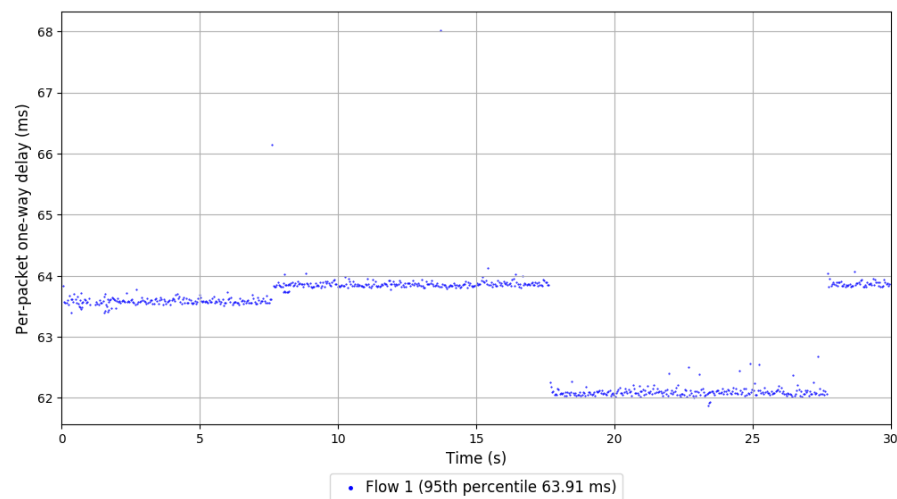
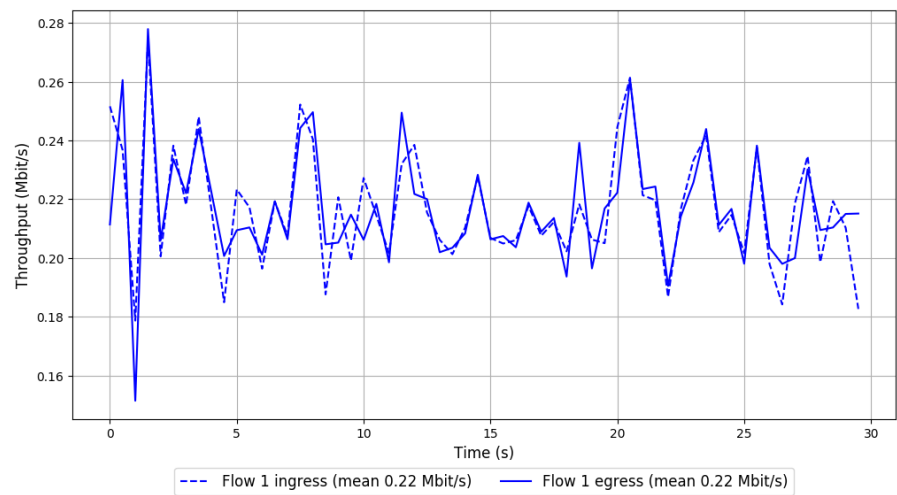
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.907 ms

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-02-13 16:01:45

End at: 2018-02-13 16:02:15

Below is generated by plot.py at 2018-02-13 17:49:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 64.149 ms

Loss rate: 0.00%

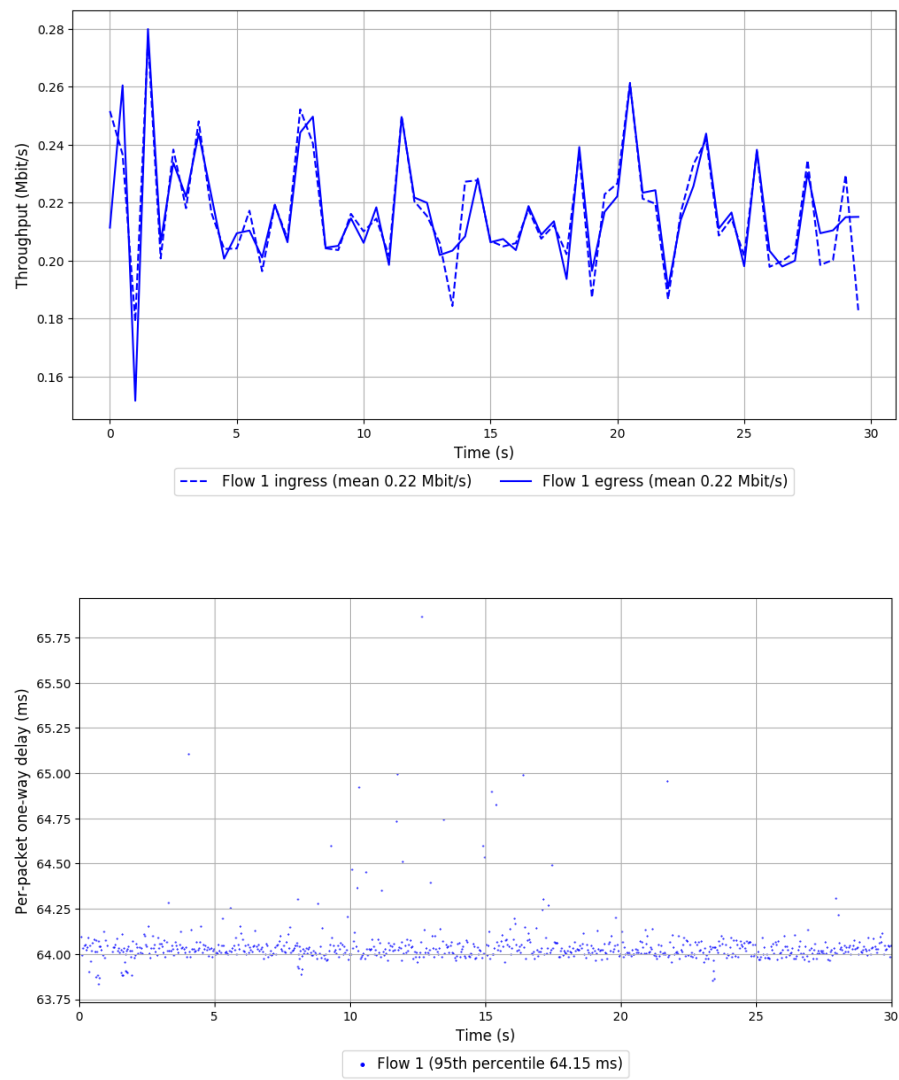
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 64.149 ms

Loss rate: 0.00%

Run 10: Report of SReAM — Data Link

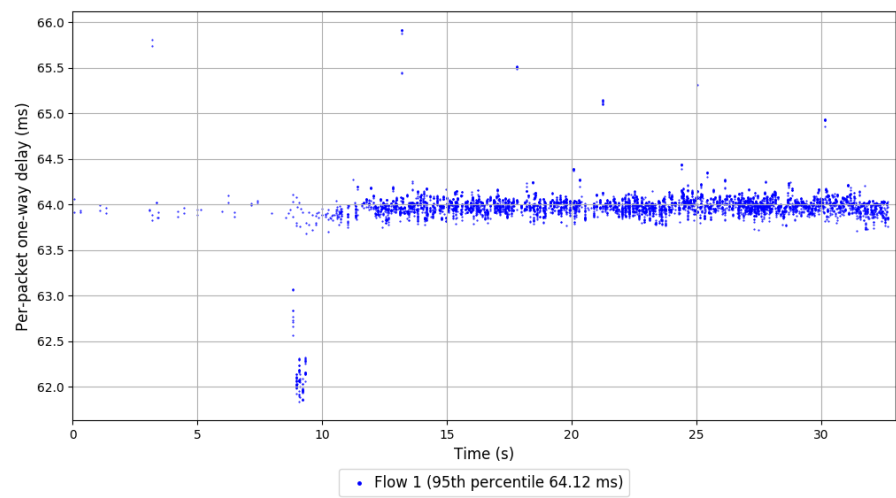
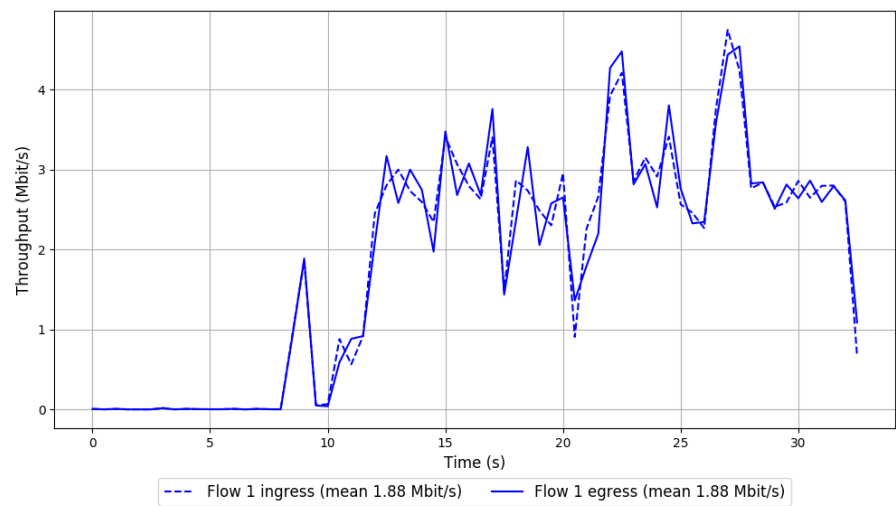


```
Run 1: Statistics of WebRTC media

Start at: 2018-02-13 13:47:39
End at: 2018-02-13 13:48:09

# Below is generated by plot.py at 2018-02-13 17:49:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.88 Mbit/s
95th percentile per-packet one-way delay: 64.119 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.88 Mbit/s
95th percentile per-packet one-way delay: 64.119 ms
Loss rate: 0.00%
```

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-02-13 14:02:26

End at: 2018-02-13 14:02:56

Below is generated by plot.py at 2018-02-13 17:49:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 63.998 ms

Loss rate: 0.00%

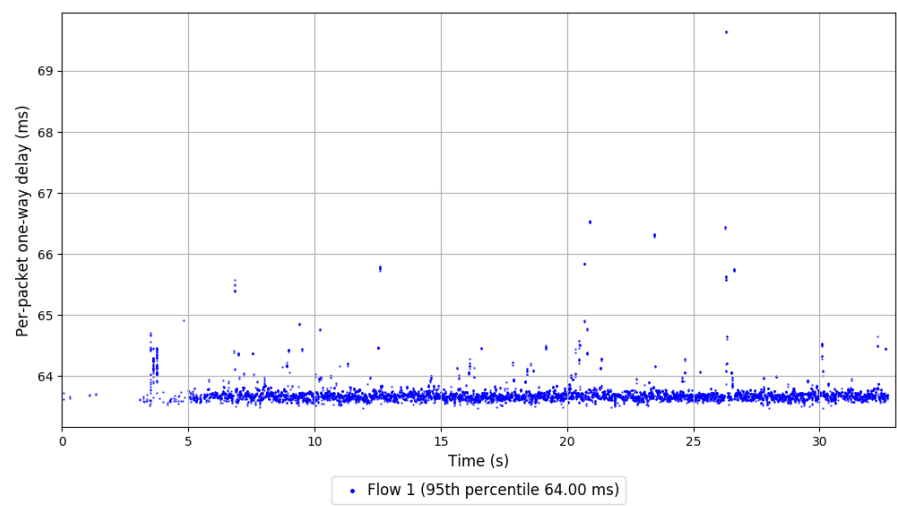
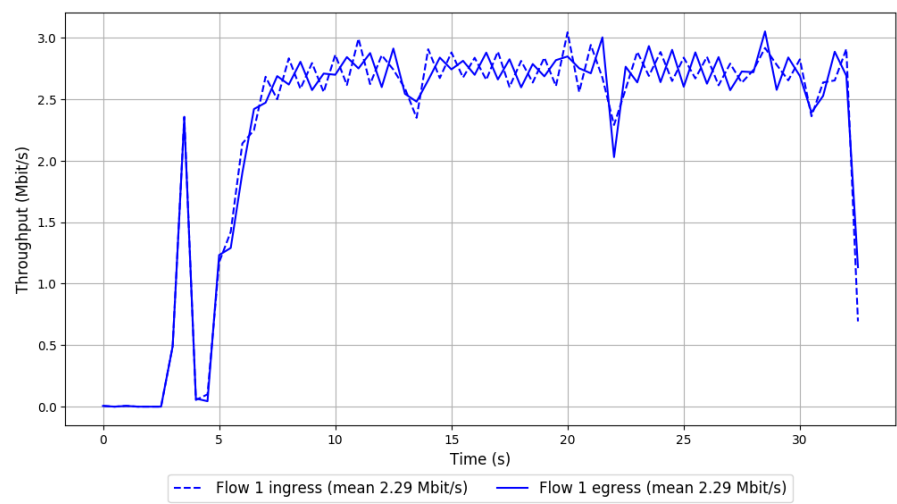
-- Flow 1:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 63.998 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-02-13 14:17:14

End at: 2018-02-13 14:17:44

Below is generated by plot.py at 2018-02-13 17:49:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 63.932 ms

Loss rate: 0.00%

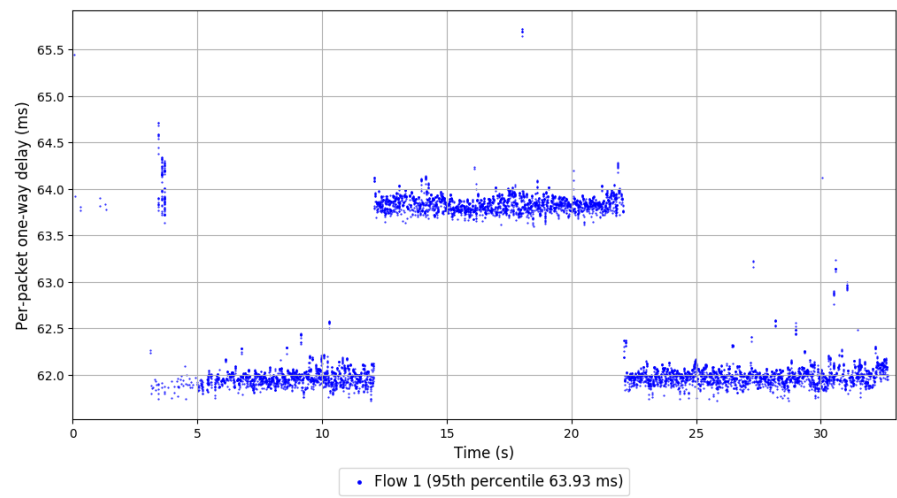
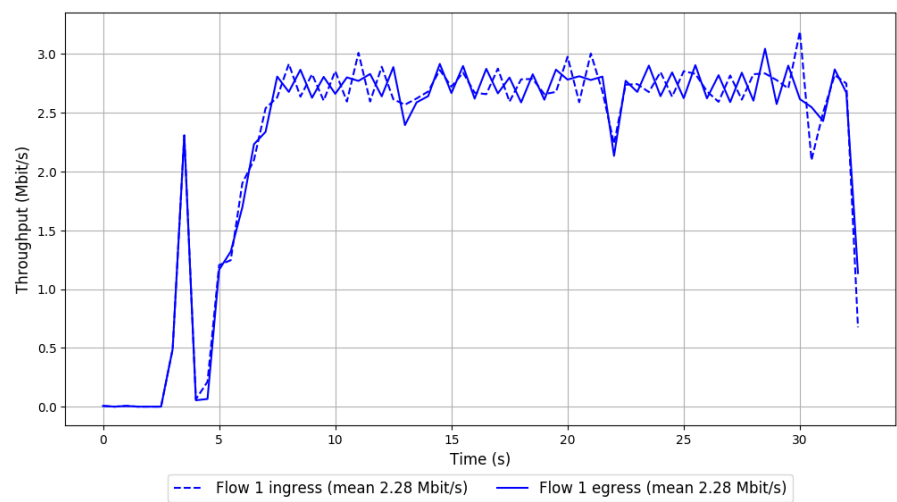
-- Flow 1:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 63.932 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-02-13 14:31:52

End at: 2018-02-13 14:32:22

Below is generated by plot.py at 2018-02-13 17:49:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 63.877 ms

Loss rate: 0.05%

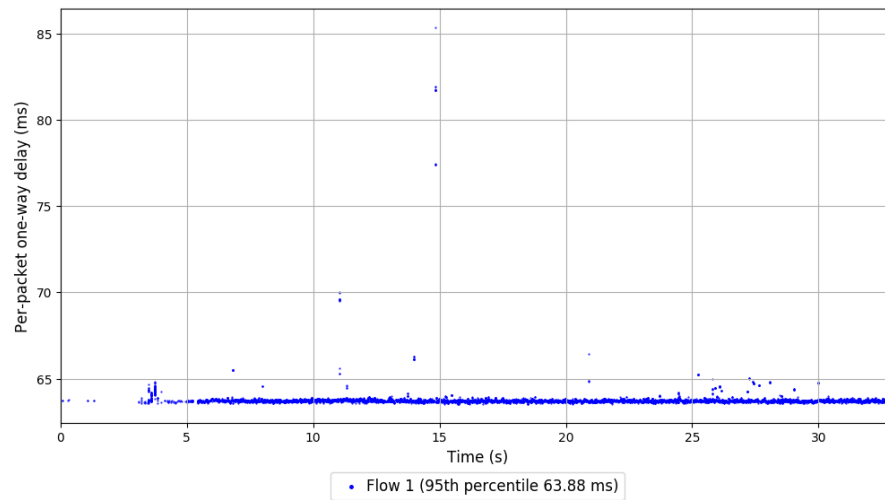
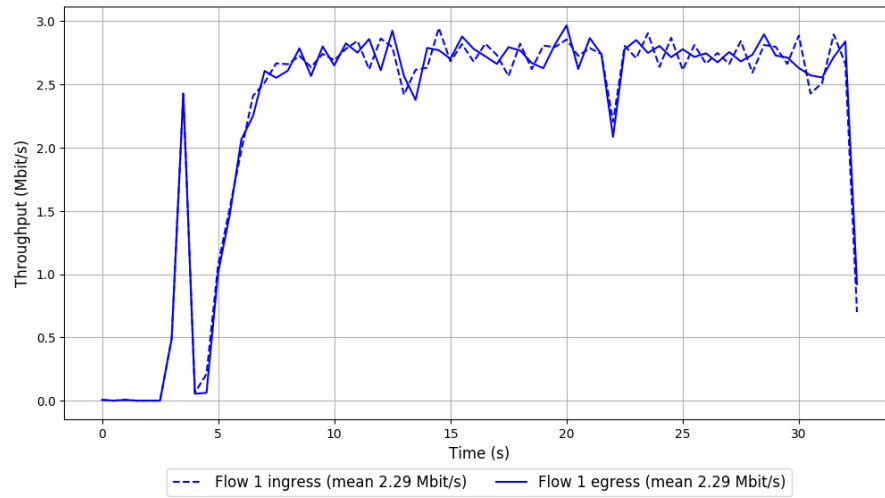
-- Flow 1:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 63.877 ms

Loss rate: 0.05%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-02-13 14:46:48

End at: 2018-02-13 14:47:18

Below is generated by plot.py at 2018-02-13 17:49:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.45 Mbit/s

95th percentile per-packet one-way delay: 63.794 ms

Loss rate: 0.00%

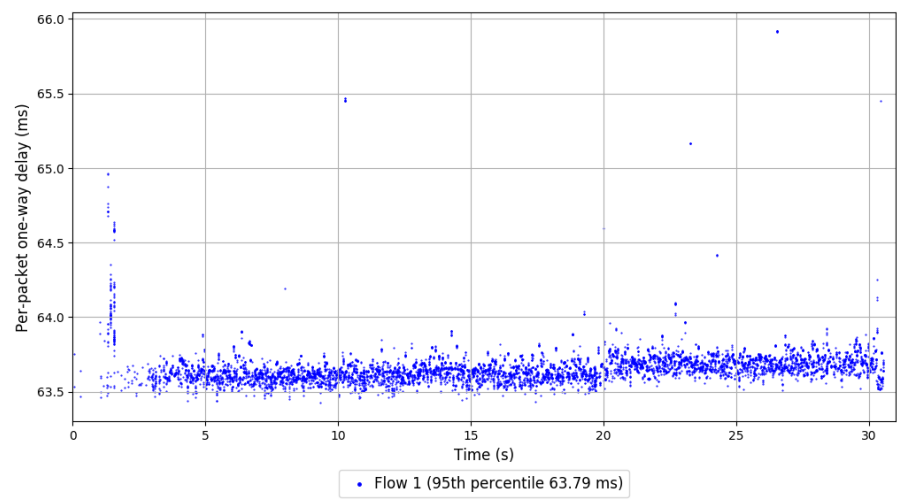
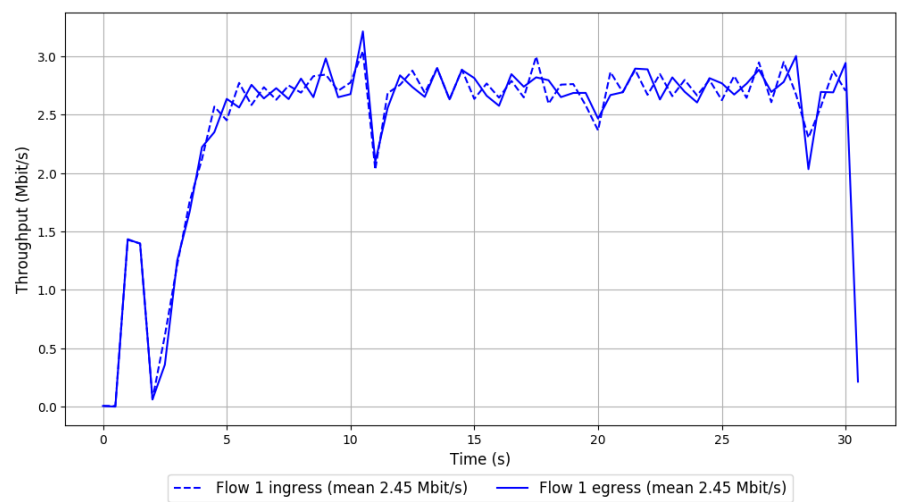
-- Flow 1:

Average throughput: 2.45 Mbit/s

95th percentile per-packet one-way delay: 63.794 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-02-13 15:01:27

End at: 2018-02-13 15:01:57

Below is generated by plot.py at 2018-02-13 17:49:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.28 Mbit/s

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

Loss rate: 0.00%

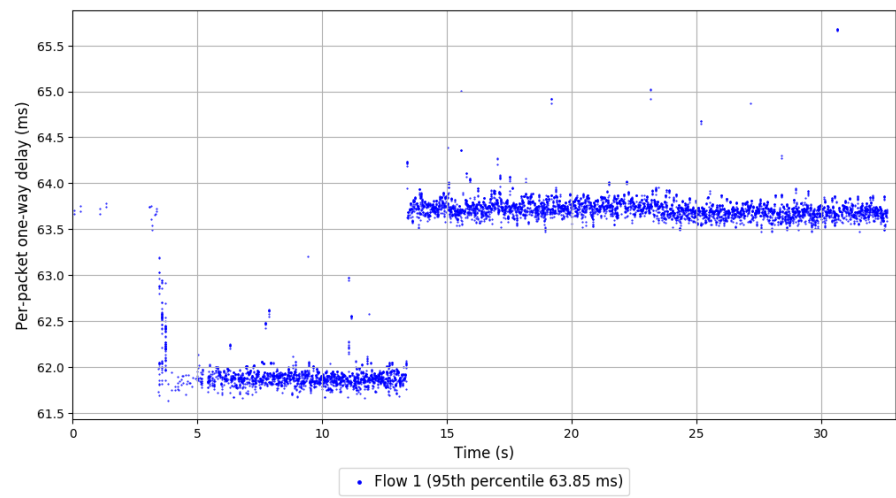
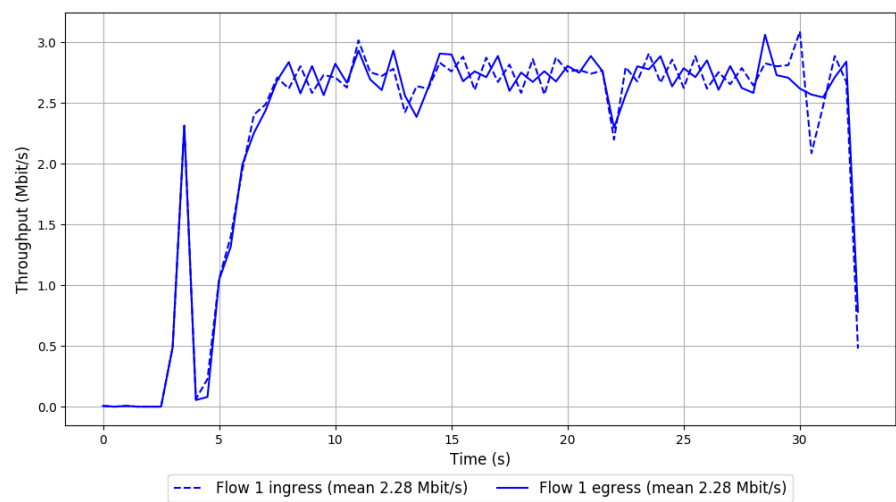
-- Flow 1:

Average throughput: 2.28 Mbit/s

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

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-02-13 15:16:10

End at: 2018-02-13 15:16:40

Below is generated by plot.py at 2018-02-13 17:49:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 63.628 ms

Loss rate: 0.00%

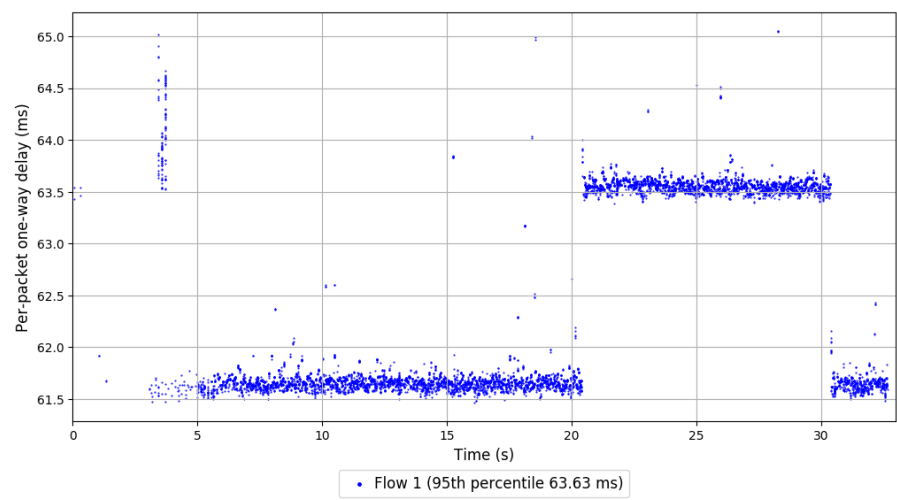
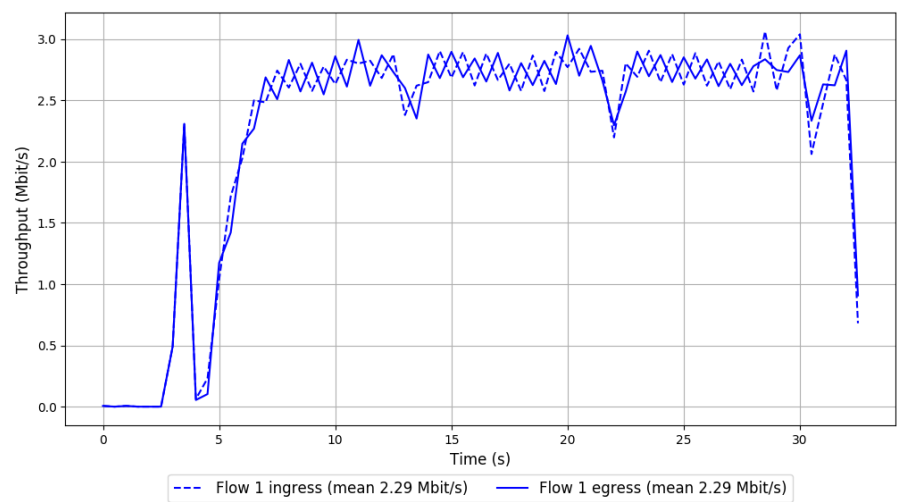
-- Flow 1:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 63.628 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-02-13 15:31:12

End at: 2018-02-13 15:31:42

Below is generated by plot.py at 2018-02-13 17:49:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 63.691 ms

Loss rate: 0.00%

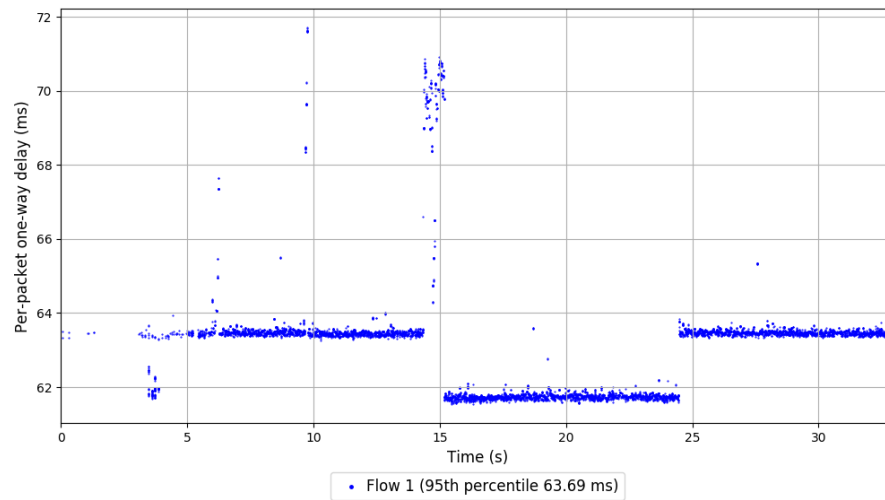
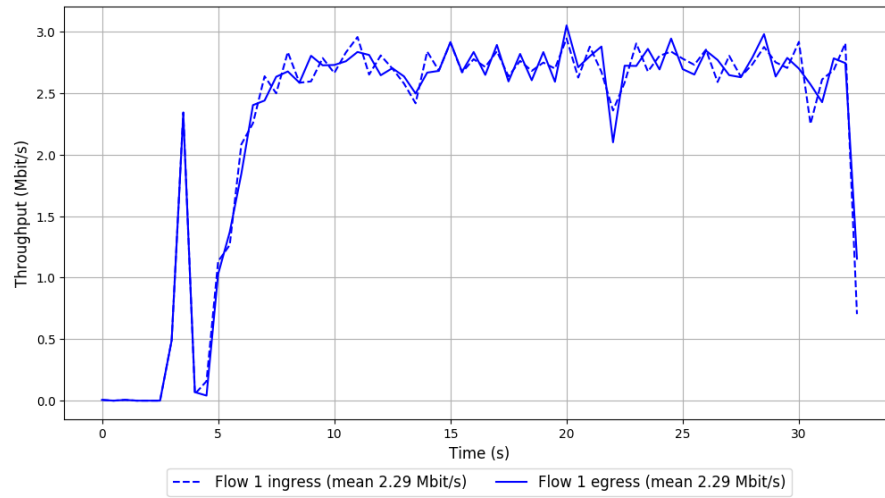
-- Flow 1:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 63.691 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-02-13 15:46:08

End at: 2018-02-13 15:46:38

Below is generated by plot.py at 2018-02-13 17:49:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 63.747 ms

Loss rate: 0.00%

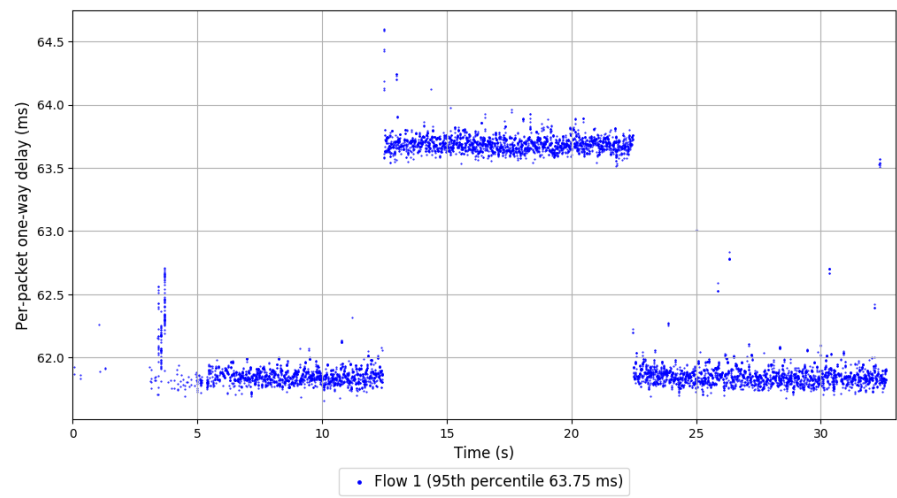
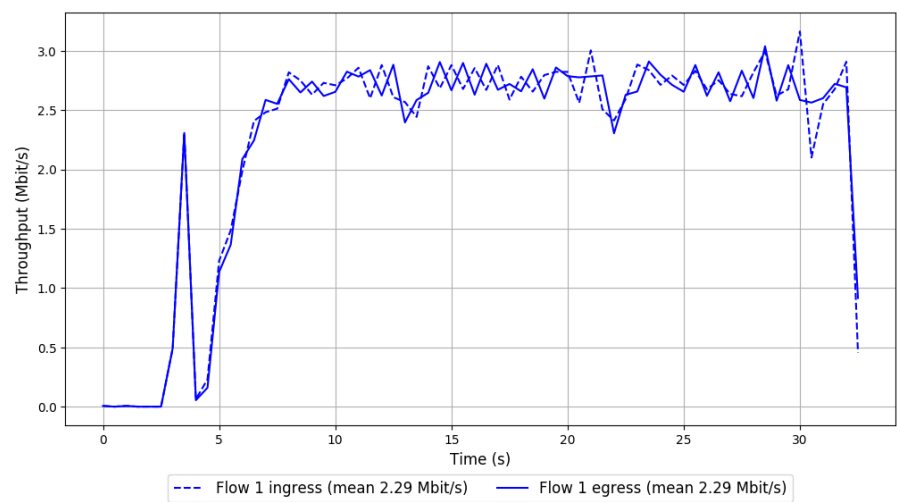
-- Flow 1:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 63.747 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-02-13 16:01:08

End at: 2018-02-13 16:01:38

Below is generated by plot.py at 2018-02-13 17:49:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 63.883 ms

Loss rate: 0.00%

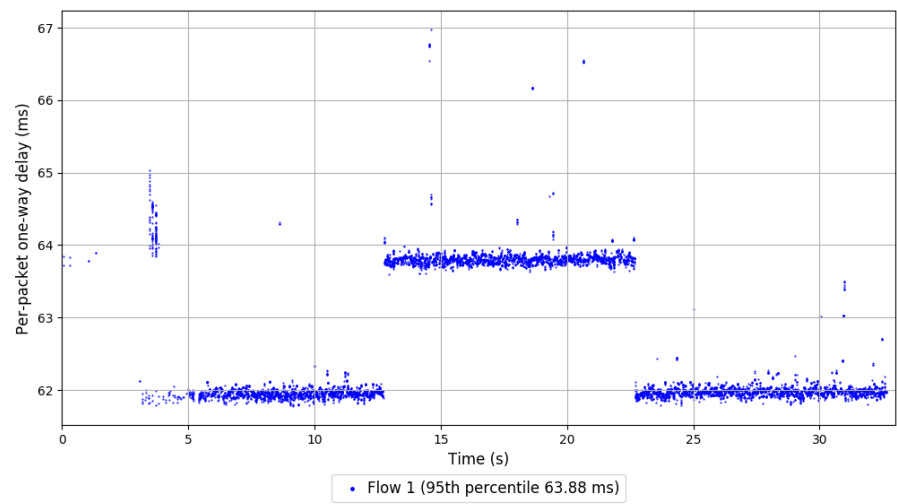
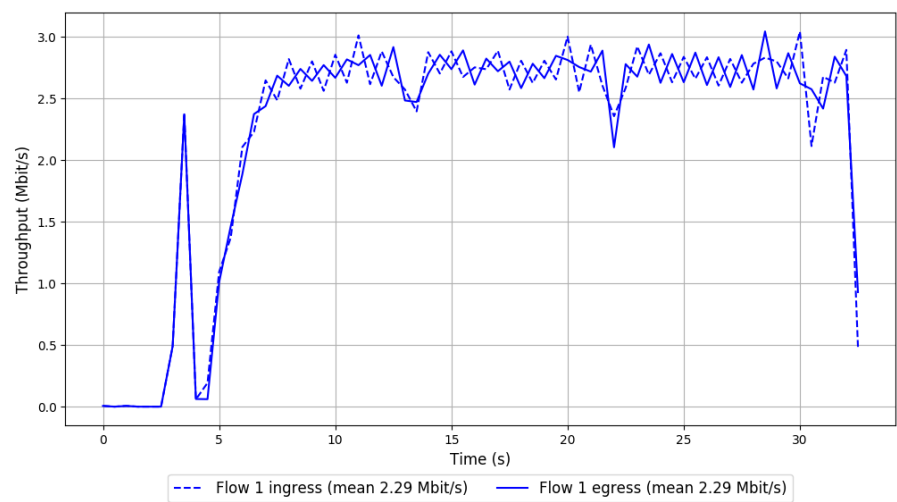
-- Flow 1:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 63.883 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2018-02-13 13:48:54

End at: 2018-02-13 13:49:24

Below is generated by plot.py at 2018-02-13 17:49:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.53 Mbit/s

95th percentile per-packet one-way delay: 65.192 ms

Loss rate: 0.00%

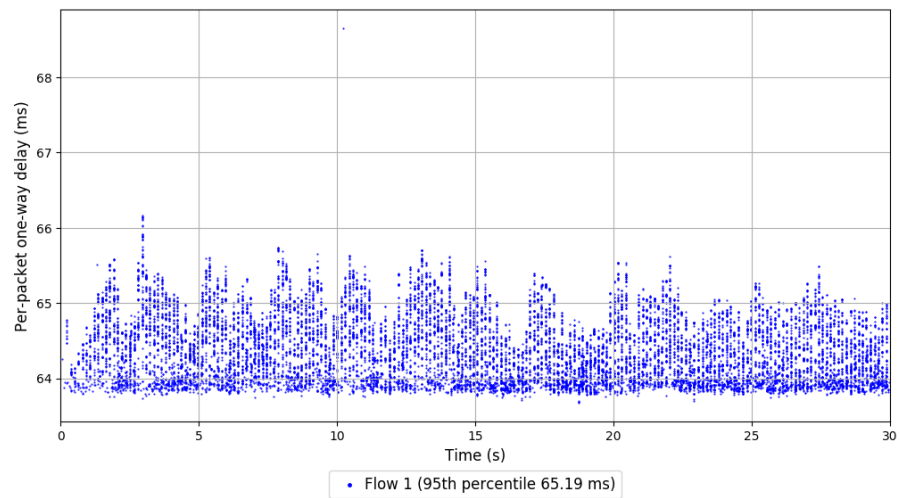
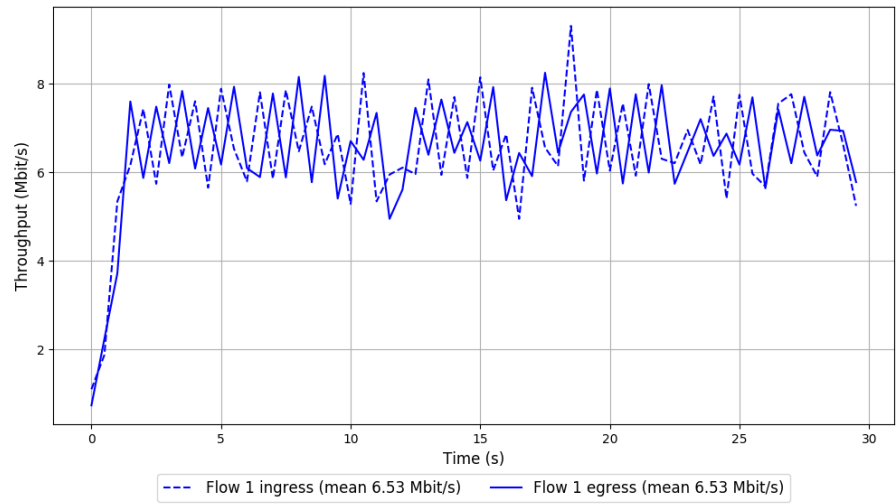
-- Flow 1:

Average throughput: 6.53 Mbit/s

95th percentile per-packet one-way delay: 65.192 ms

Loss rate: 0.00%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-02-13 14:03:41

End at: 2018-02-13 14:04:11

Below is generated by plot.py at 2018-02-13 17:49:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.55 Mbit/s

95th percentile per-packet one-way delay: 65.024 ms

Loss rate: 0.00%

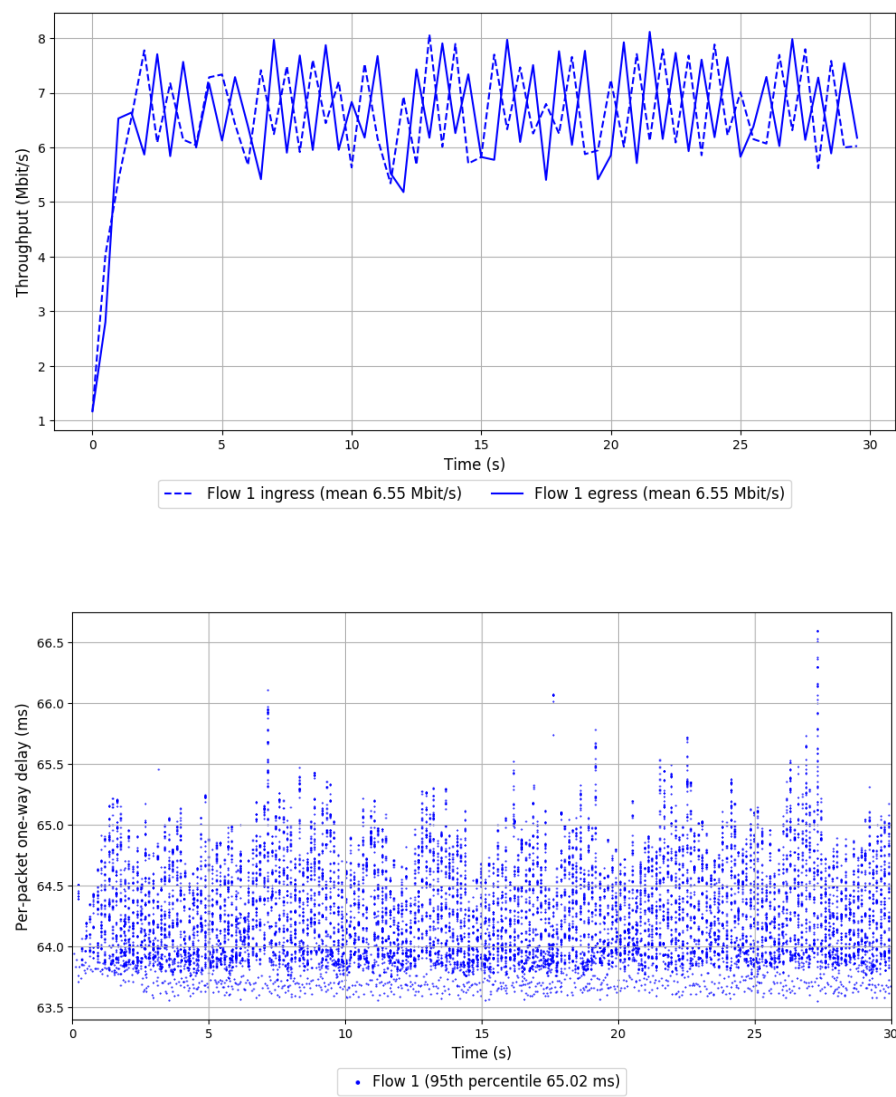
-- Flow 1:

Average throughput: 6.55 Mbit/s

95th percentile per-packet one-way delay: 65.024 ms

Loss rate: 0.00%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-02-13 14:18:29

End at: 2018-02-13 14:18:59

Below is generated by plot.py at 2018-02-13 17:49:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.39 Mbit/s

95th percentile per-packet one-way delay: 65.339 ms

Loss rate: 0.00%

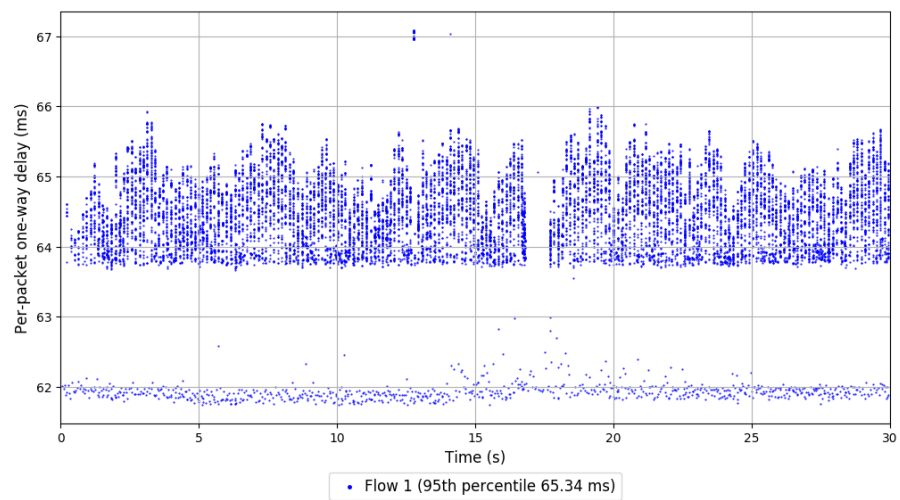
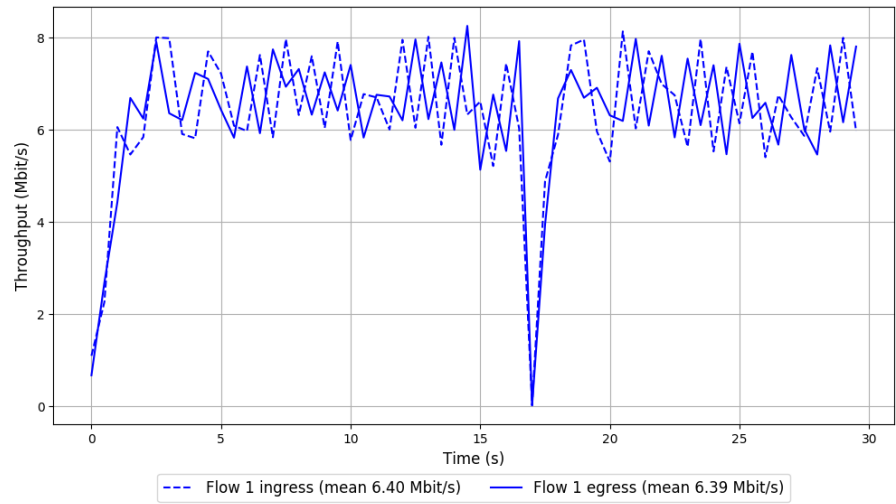
-- Flow 1:

Average throughput: 6.39 Mbit/s

95th percentile per-packet one-way delay: 65.339 ms

Loss rate: 0.00%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-02-13 14:33:07

End at: 2018-02-13 14:33:37

Below is generated by plot.py at 2018-02-13 17:49:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.53 Mbit/s

95th percentile per-packet one-way delay: 65.066 ms

Loss rate: 0.00%

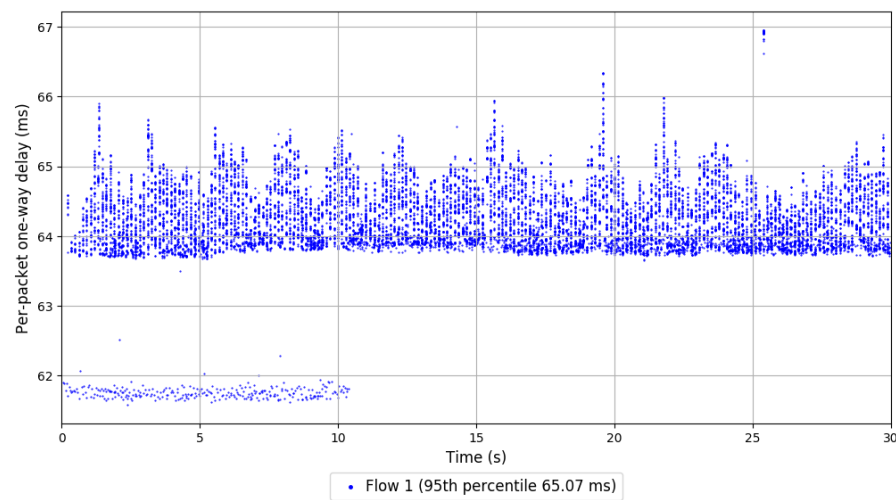
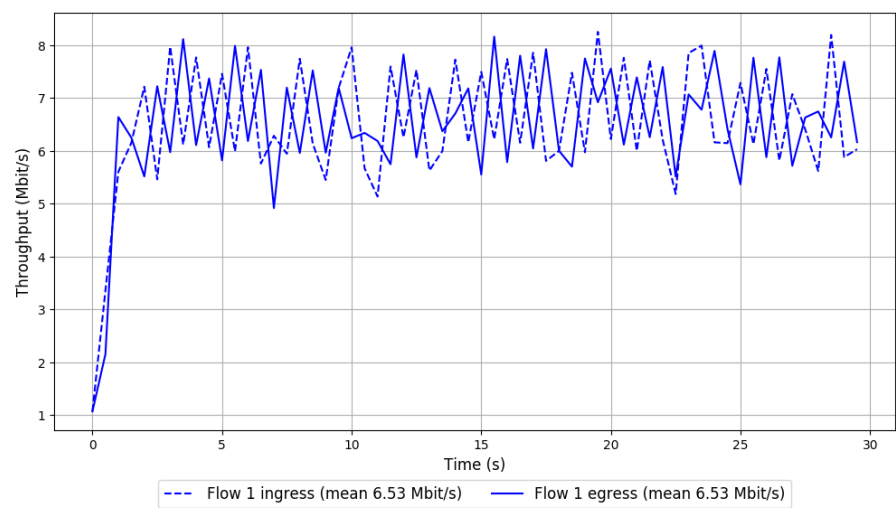
-- Flow 1:

Average throughput: 6.53 Mbit/s

95th percentile per-packet one-way delay: 65.066 ms

Loss rate: 0.00%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-02-13 14:48:03

End at: 2018-02-13 14:48:33

Below is generated by plot.py at 2018-02-13 17:49:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.41 Mbit/s

95th percentile per-packet one-way delay: 64.976 ms

Loss rate: 0.00%

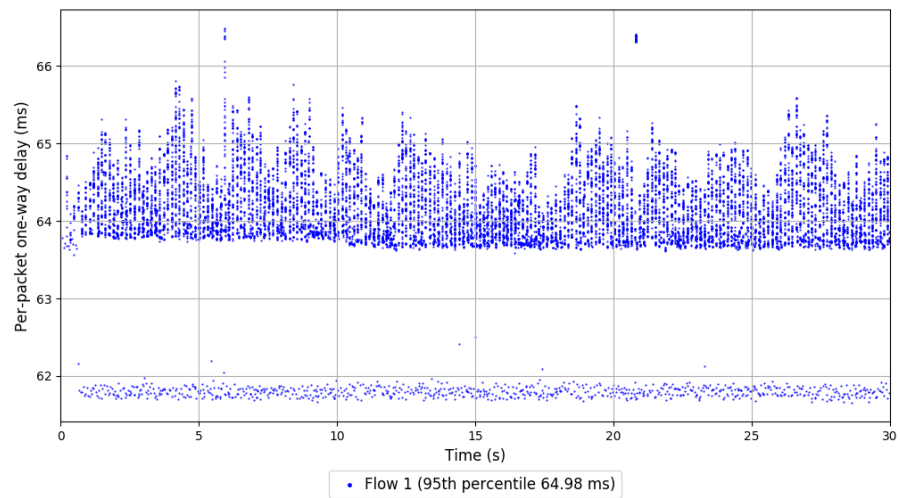
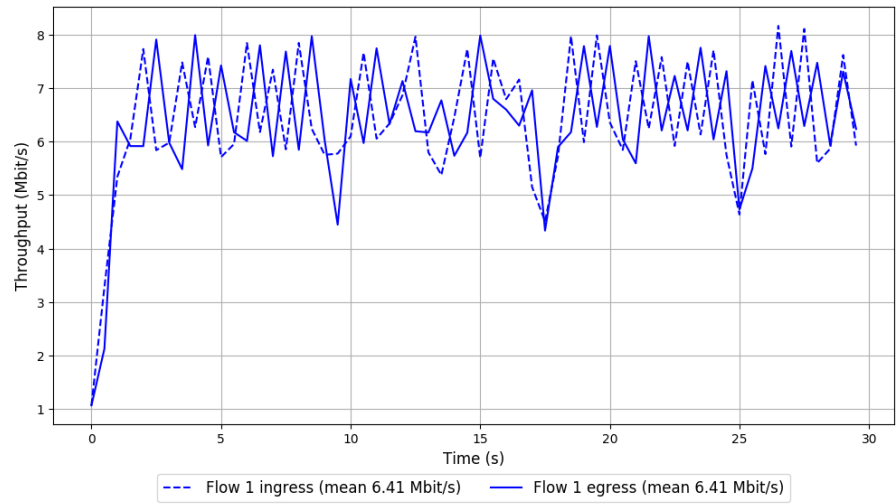
-- Flow 1:

Average throughput: 6.41 Mbit/s

95th percentile per-packet one-way delay: 64.976 ms

Loss rate: 0.00%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-02-13 15:02:42

End at: 2018-02-13 15:03:12

Below is generated by plot.py at 2018-02-13 17:49:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.58 Mbit/s

95th percentile per-packet one-way delay: 64.795 ms

Loss rate: 0.00%

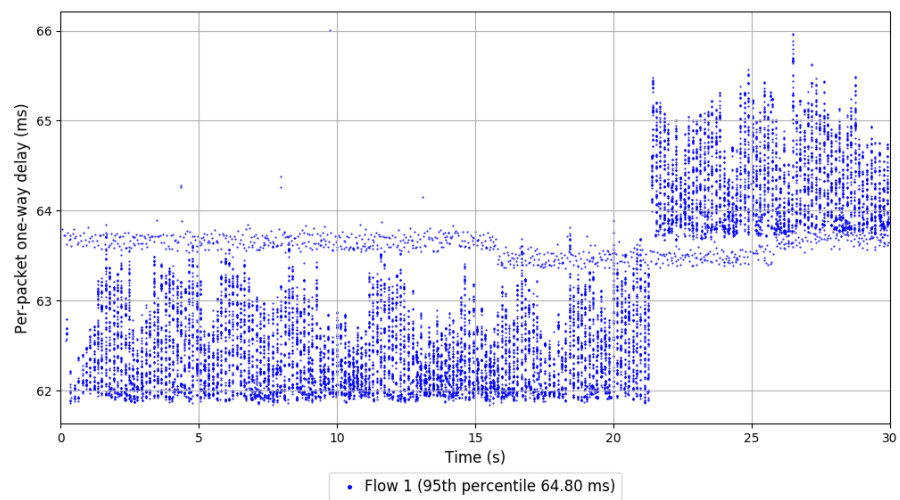
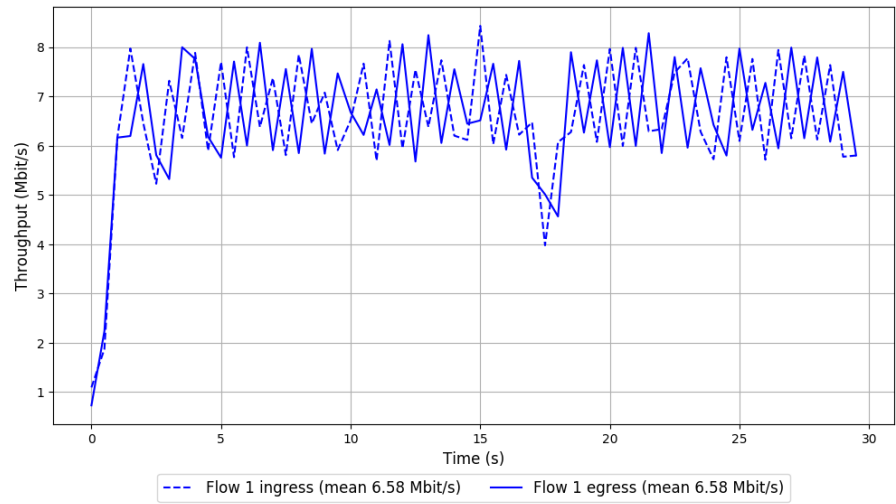
-- Flow 1:

Average throughput: 6.58 Mbit/s

95th percentile per-packet one-way delay: 64.795 ms

Loss rate: 0.00%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-02-13 15:17:25

End at: 2018-02-13 15:17:55

Below is generated by plot.py at 2018-02-13 17:49:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.62 Mbit/s

95th percentile per-packet one-way delay: 64.725 ms

Loss rate: 0.00%

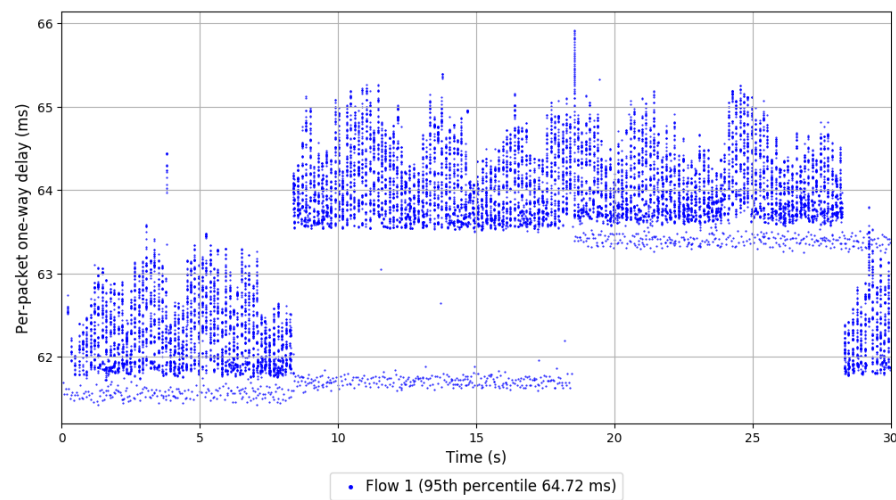
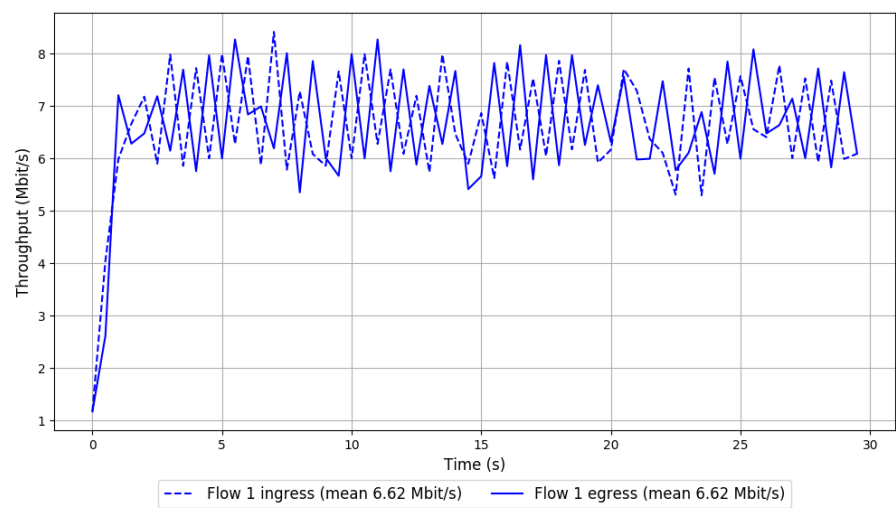
-- Flow 1:

Average throughput: 6.62 Mbit/s

95th percentile per-packet one-way delay: 64.725 ms

Loss rate: 0.00%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-02-13 15:32:27

End at: 2018-02-13 15:32:57

Below is generated by plot.py at 2018-02-13 17:49:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.64 Mbit/s

95th percentile per-packet one-way delay: 65.025 ms

Loss rate: 0.00%

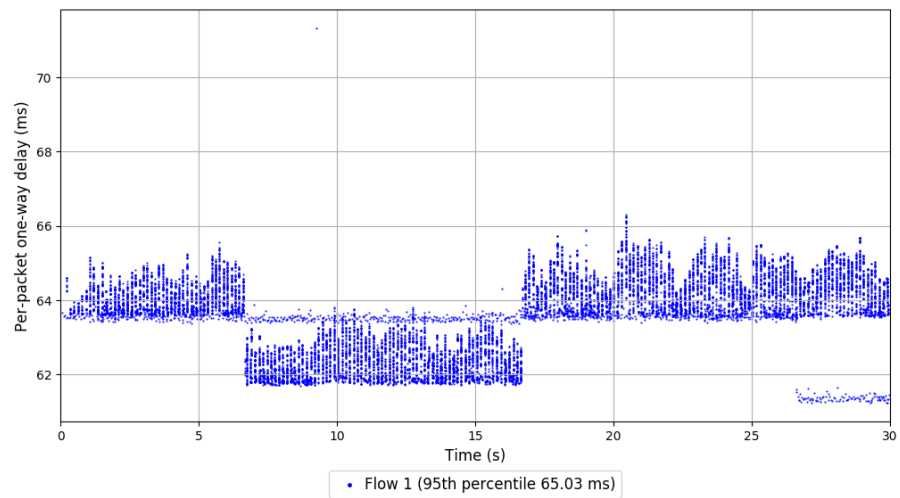
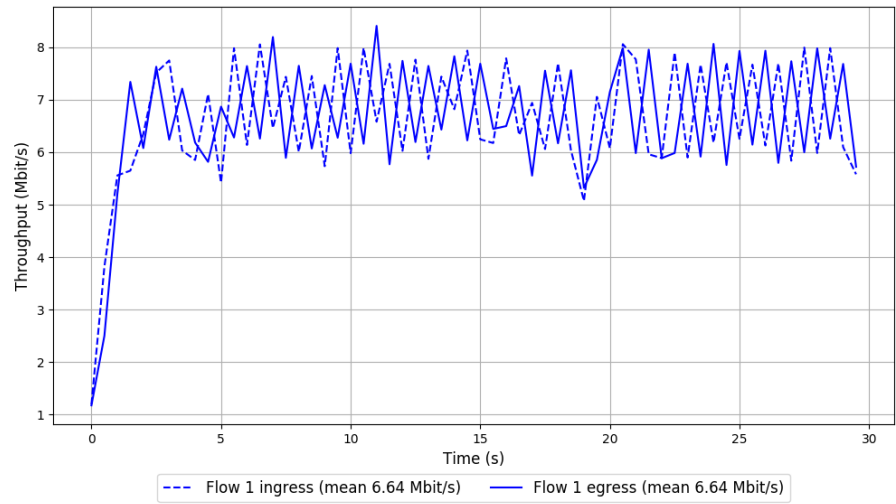
-- Flow 1:

Average throughput: 6.64 Mbit/s

95th percentile per-packet one-way delay: 65.025 ms

Loss rate: 0.00%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-02-13 15:47:23

End at: 2018-02-13 15:47:53

Below is generated by plot.py at 2018-02-13 17:49:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.41 Mbit/s

95th percentile per-packet one-way delay: 65.019 ms

Loss rate: 0.00%

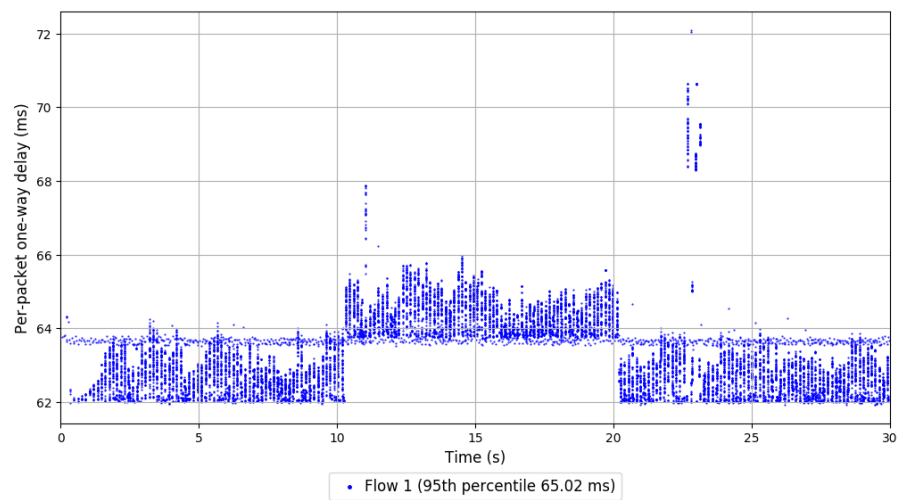
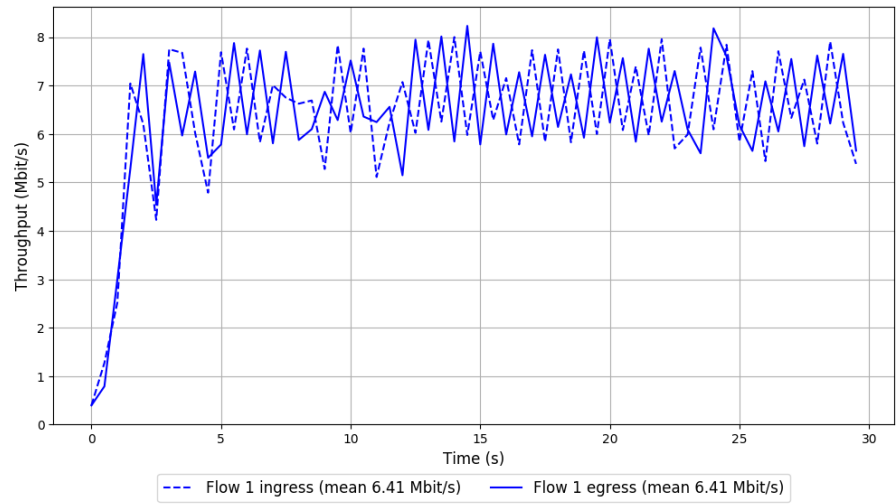
-- Flow 1:

Average throughput: 6.41 Mbit/s

95th percentile per-packet one-way delay: 65.019 ms

Loss rate: 0.00%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-02-13 16:02:23

End at: 2018-02-13 16:02:53

Below is generated by plot.py at 2018-02-13 17:49:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.59 Mbit/s

95th percentile per-packet one-way delay: 65.446 ms

Loss rate: 0.17%

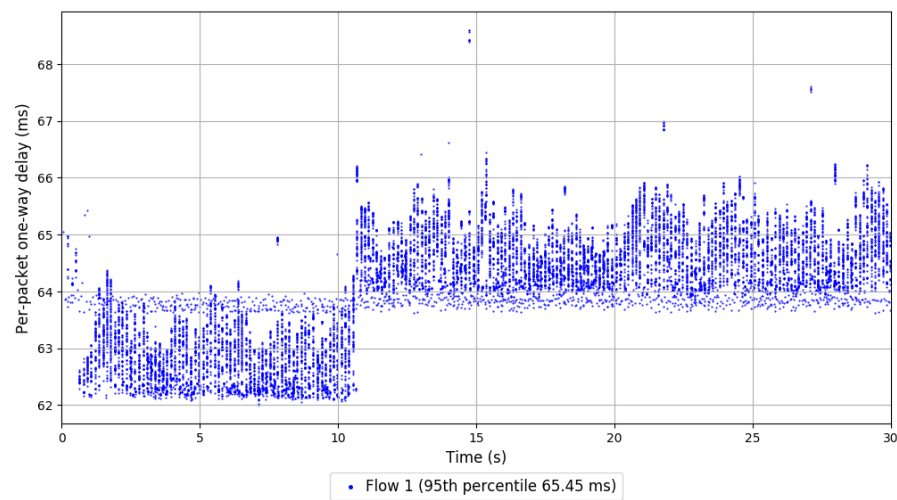
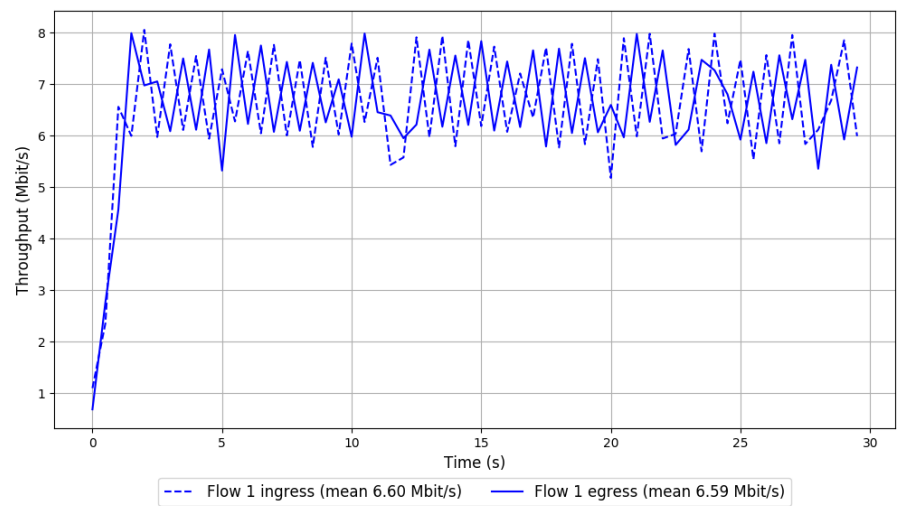
-- Flow 1:

Average throughput: 6.59 Mbit/s

95th percentile per-packet one-way delay: 65.446 ms

Loss rate: 0.17%

Run 10: Report of Sprout — Data Link

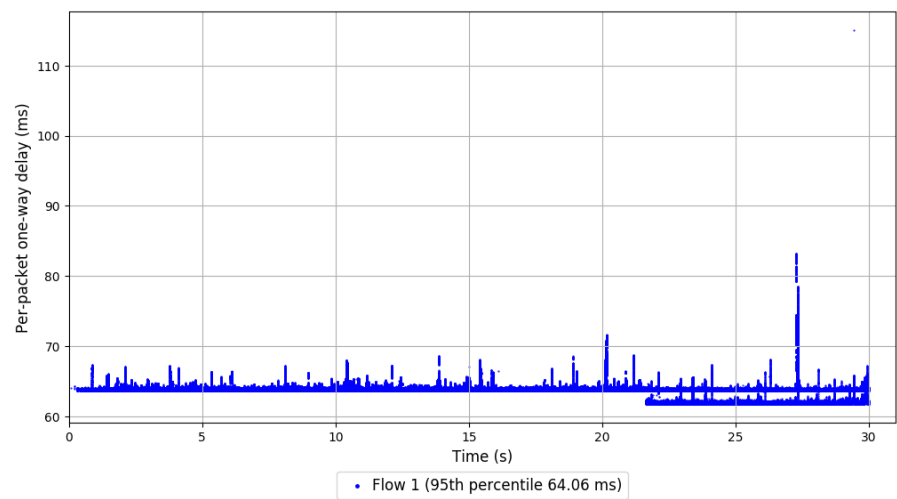
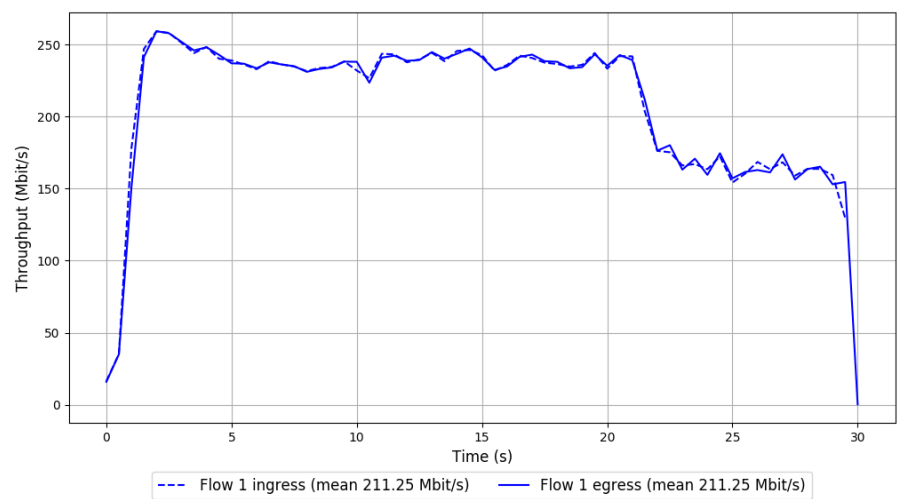


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-02-13 13:45:31
End at: 2018-02-13 13:46:01

# Below is generated by plot.py at 2018-02-13 17:52:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 211.25 Mbit/s
95th percentile per-packet one-way delay: 64.060 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 211.25 Mbit/s
95th percentile per-packet one-way delay: 64.060 ms
Loss rate: 0.00%
```

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

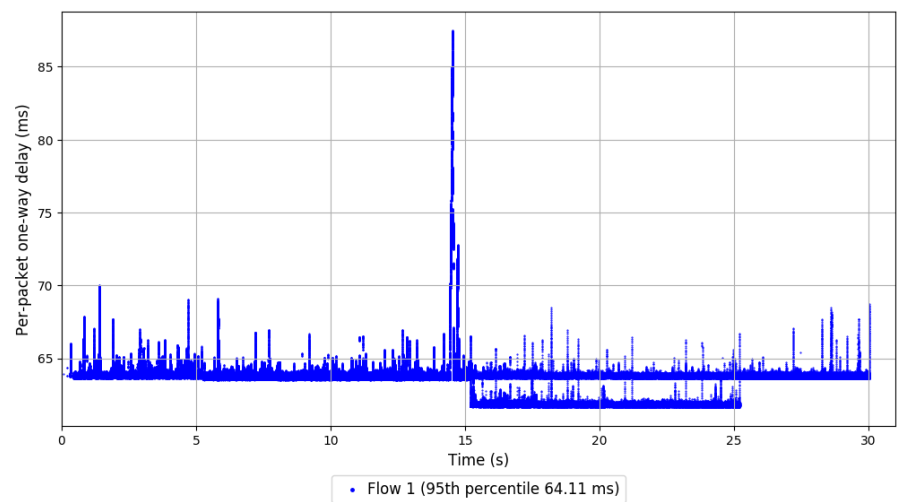
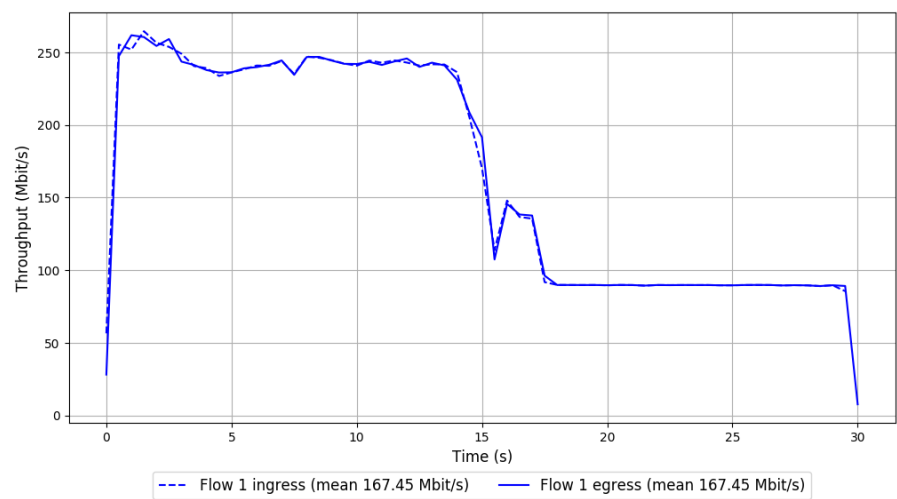


```
Run 2: Statistics of TaoVA-100x

Start at: 2018-02-13 14:00:22
End at: 2018-02-13 14:00:52

# Below is generated by plot.py at 2018-02-13 17:52:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 167.45 Mbit/s
95th percentile per-packet one-way delay: 64.115 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 167.45 Mbit/s
95th percentile per-packet one-way delay: 64.115 ms
Loss rate: 0.00%
```

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-02-13 14:15:13

End at: 2018-02-13 14:15:43

Below is generated by plot.py at 2018-02-13 17:52:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 132.96 Mbit/s

95th percentile per-packet one-way delay: 70.004 ms

Loss rate: 0.00%

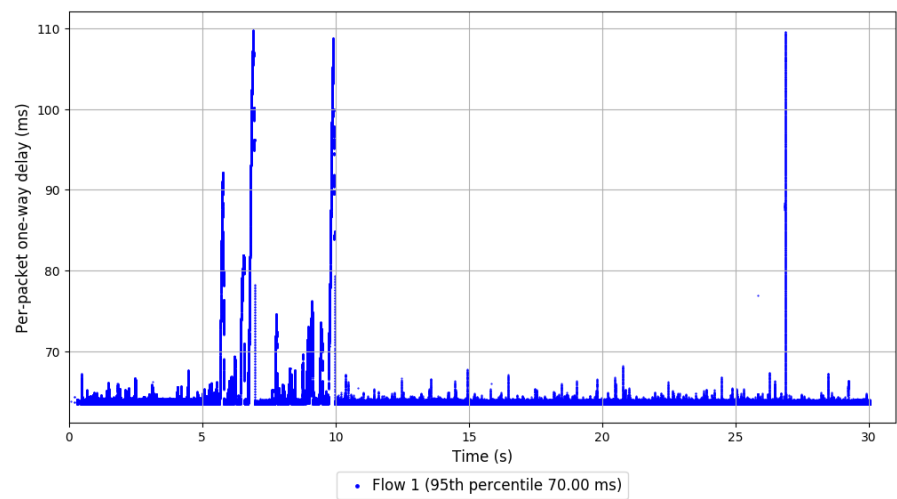
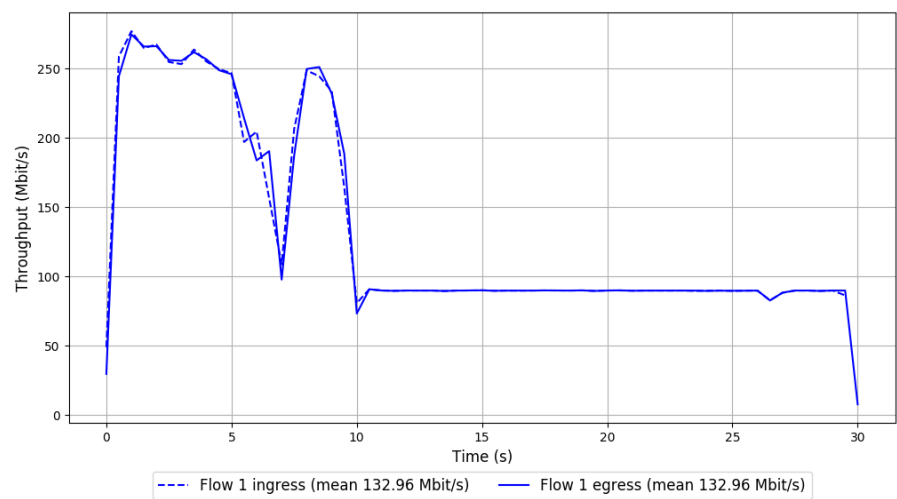
-- Flow 1:

Average throughput: 132.96 Mbit/s

95th percentile per-packet one-way delay: 70.004 ms

Loss rate: 0.00%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-02-13 14:29:47

End at: 2018-02-13 14:30:17

Below is generated by plot.py at 2018-02-13 17:52:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 175.79 Mbit/s

95th percentile per-packet one-way delay: 64.001 ms

Loss rate: 0.03%

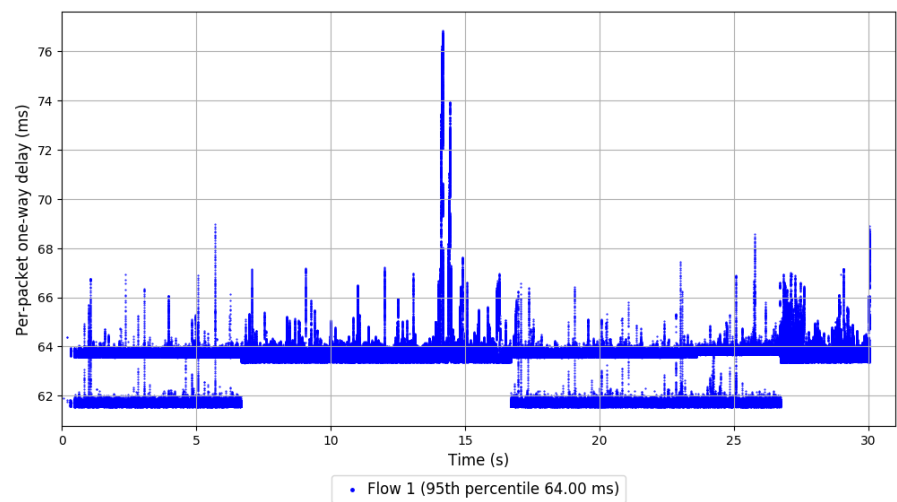
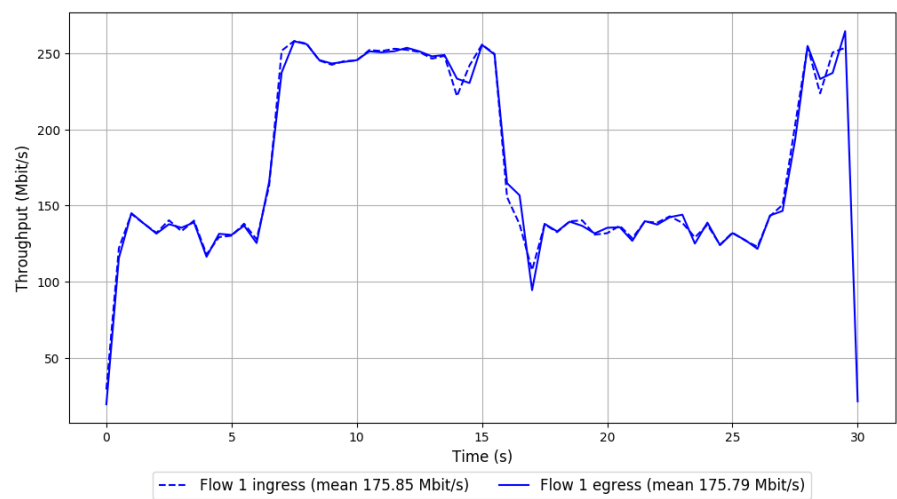
-- Flow 1:

Average throughput: 175.79 Mbit/s

95th percentile per-packet one-way delay: 64.001 ms

Loss rate: 0.03%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-02-13 14:44:44

End at: 2018-02-13 14:45:14

Below is generated by plot.py at 2018-02-13 17:52:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 143.33 Mbit/s

95th percentile per-packet one-way delay: 63.911 ms

Loss rate: 0.00%

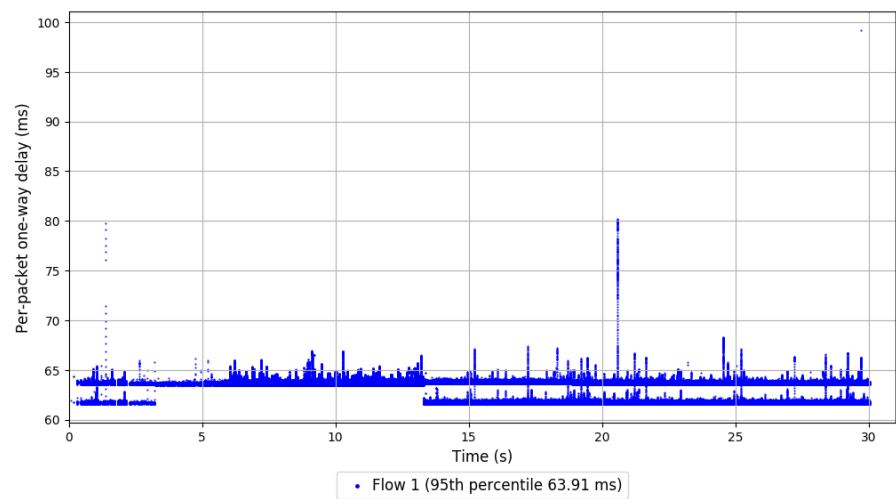
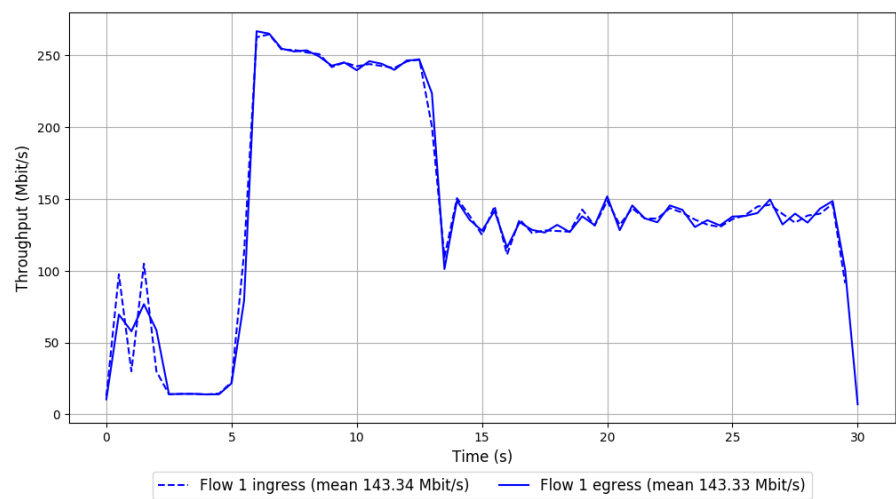
-- Flow 1:

Average throughput: 143.33 Mbit/s

95th percentile per-packet one-way delay: 63.911 ms

Loss rate: 0.00%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-02-13 14:59:25

End at: 2018-02-13 14:59:55

Below is generated by plot.py at 2018-02-13 17:52:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 158.70 Mbit/s

95th percentile per-packet one-way delay: 63.700 ms

Loss rate: 0.00%

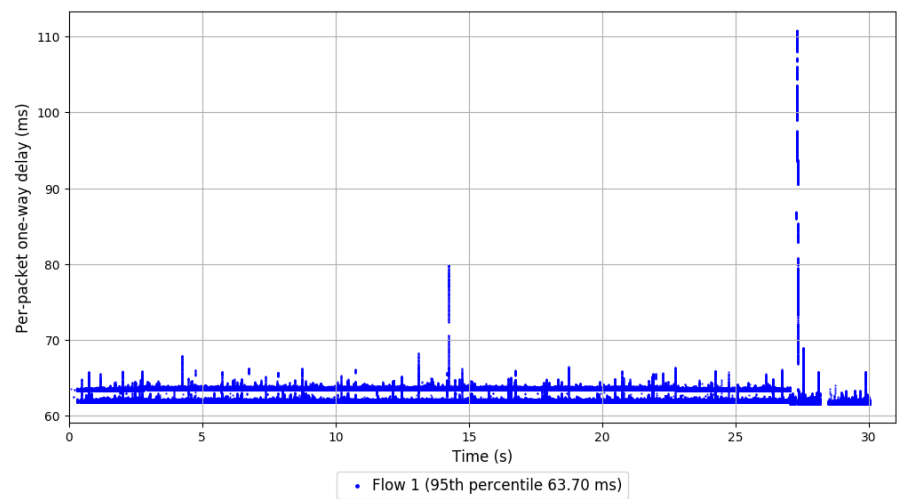
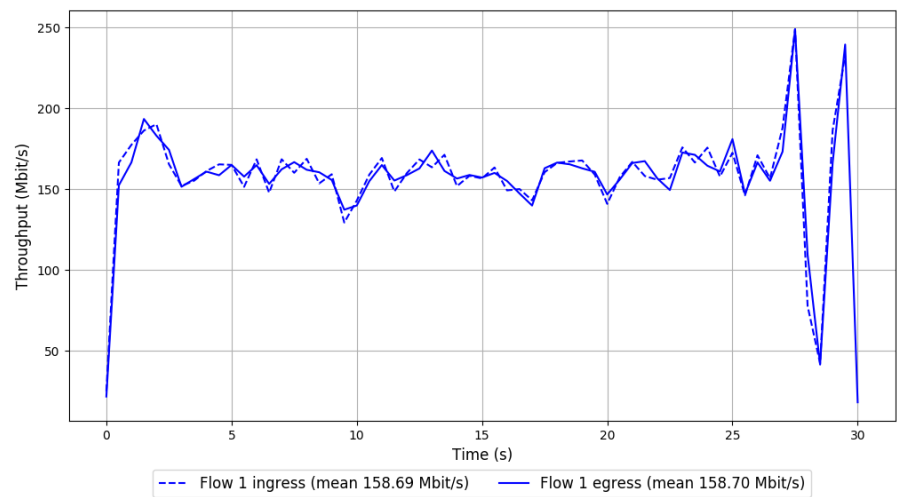
-- Flow 1:

Average throughput: 158.70 Mbit/s

95th percentile per-packet one-way delay: 63.700 ms

Loss rate: 0.00%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-02-13 15:14:08

End at: 2018-02-13 15:14:38

Below is generated by plot.py at 2018-02-13 17:53:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 131.38 Mbit/s

95th percentile per-packet one-way delay: 63.699 ms

Loss rate: 0.00%

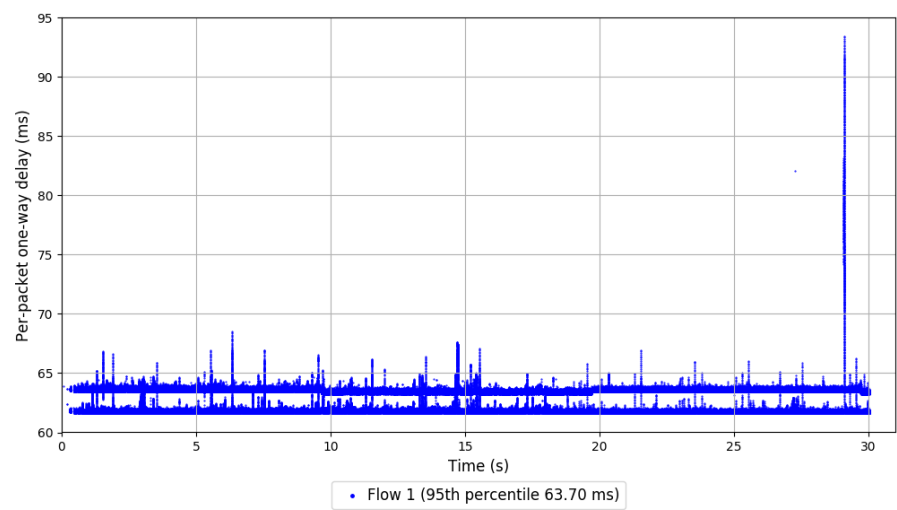
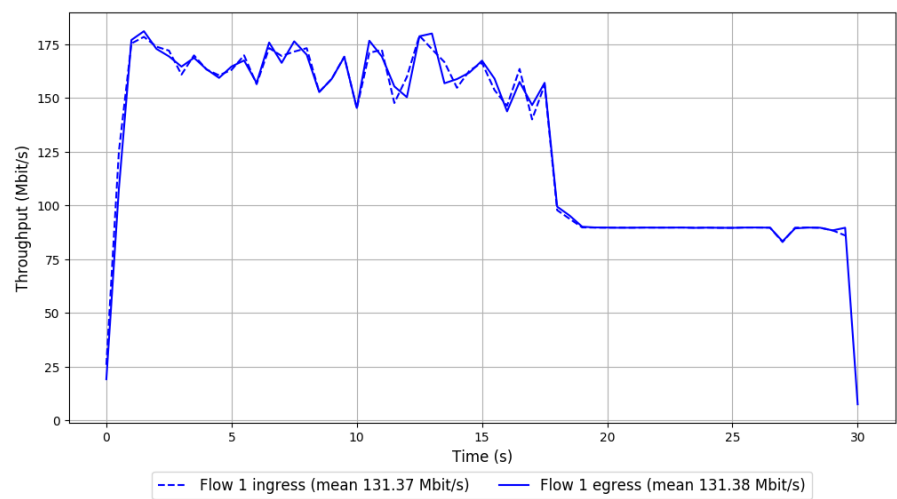
-- Flow 1:

Average throughput: 131.38 Mbit/s

95th percentile per-packet one-way delay: 63.699 ms

Loss rate: 0.00%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-02-13 15:29:01

End at: 2018-02-13 15:29:31

Below is generated by plot.py at 2018-02-13 17:56:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 218.22 Mbit/s

95th percentile per-packet one-way delay: 63.846 ms

Loss rate: 0.04%

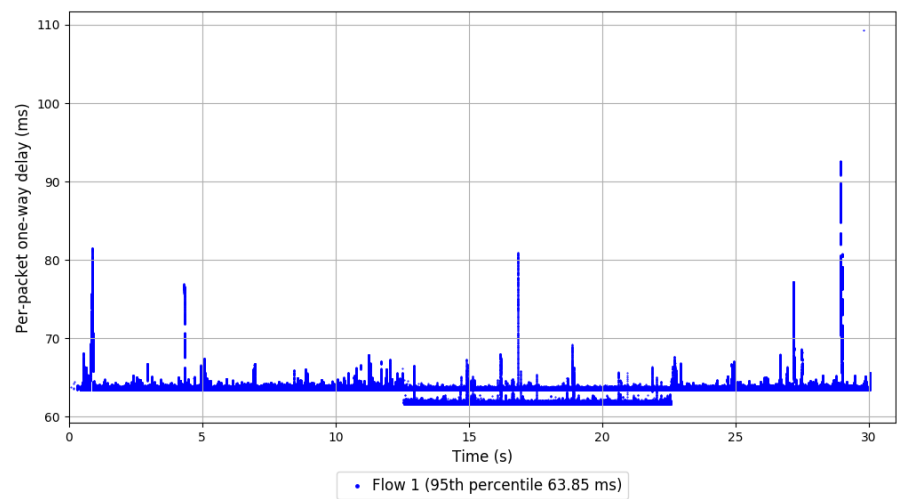
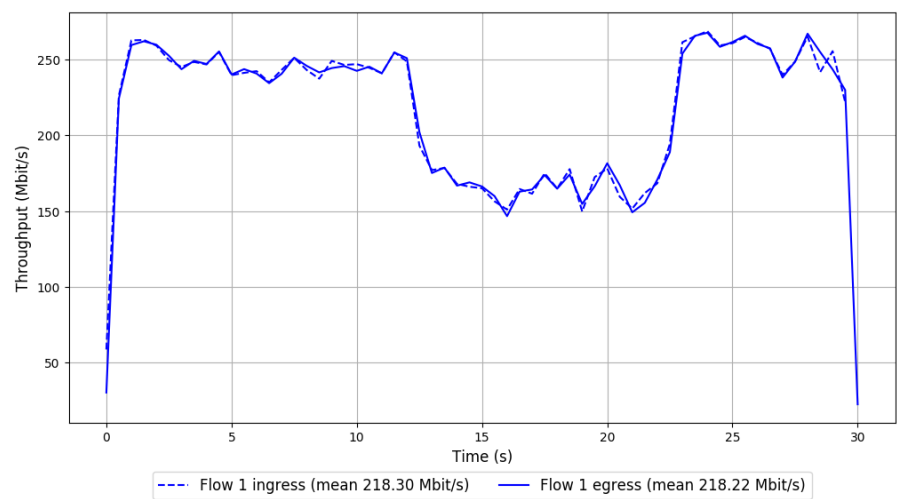
-- Flow 1:

Average throughput: 218.22 Mbit/s

95th percentile per-packet one-way delay: 63.846 ms

Loss rate: 0.04%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-02-13 15:43:59

End at: 2018-02-13 15:44:29

Below is generated by plot.py at 2018-02-13 17:56:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 210.91 Mbit/s

95th percentile per-packet one-way delay: 63.809 ms

Loss rate: 0.00%

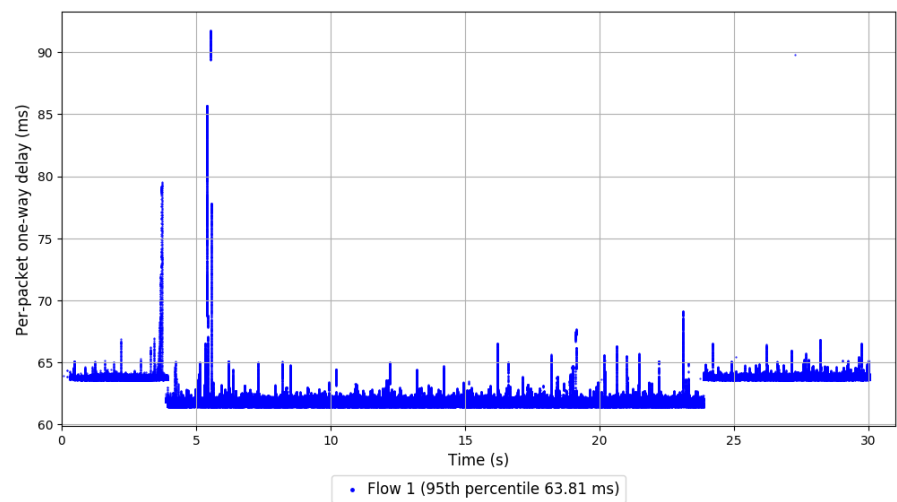
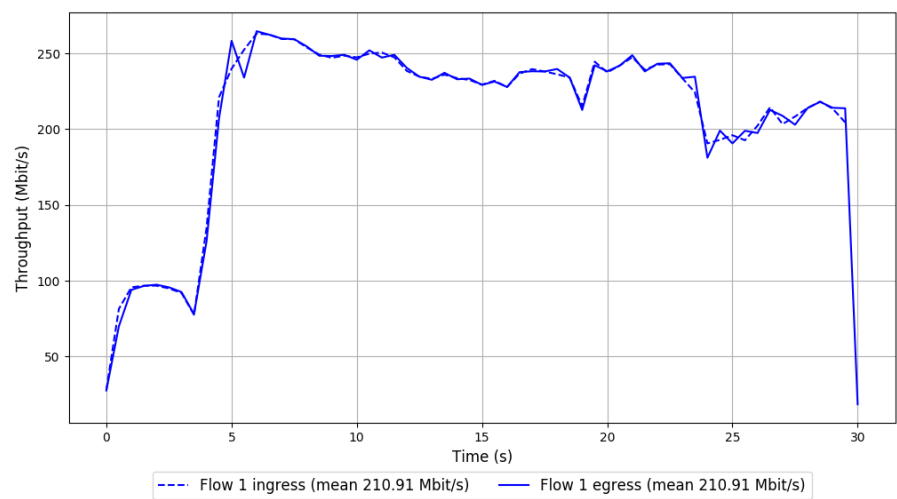
-- Flow 1:

Average throughput: 210.91 Mbit/s

95th percentile per-packet one-way delay: 63.809 ms

Loss rate: 0.00%

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

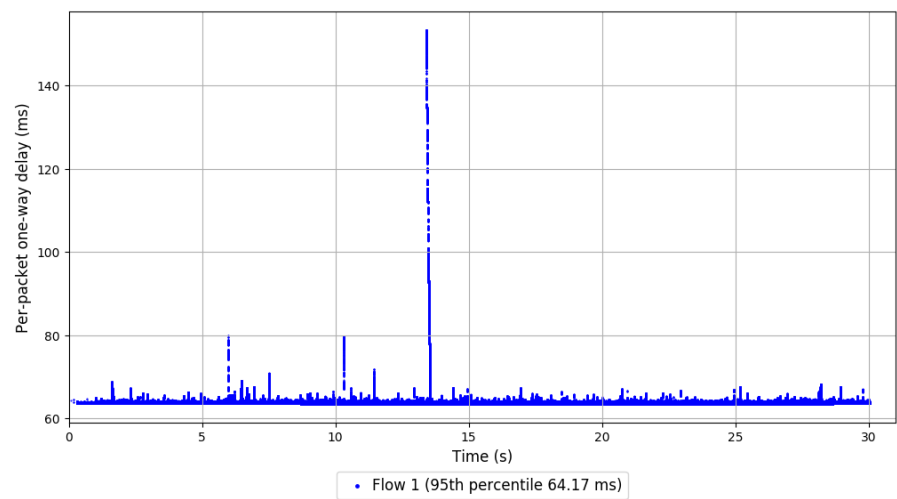
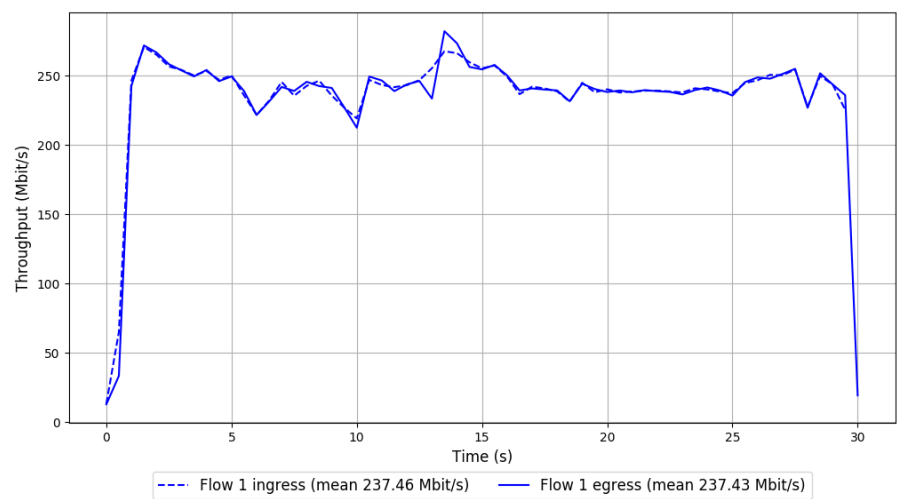


```
Run 10: Statistics of TaoVA-100x

Start at: 2018-02-13 15:58:55
End at: 2018-02-13 15:59:25

# Below is generated by plot.py at 2018-02-13 17:58:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 237.43 Mbit/s
95th percentile per-packet one-way delay: 64.171 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 237.43 Mbit/s
95th percentile per-packet one-way delay: 64.171 ms
Loss rate: 0.01%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2018-02-13 13:36:47

End at: 2018-02-13 13:37:17

Below is generated by plot.py at 2018-02-13 17:58:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 98.63 Mbit/s

95th percentile per-packet one-way delay: 73.843 ms

Loss rate: 0.01%

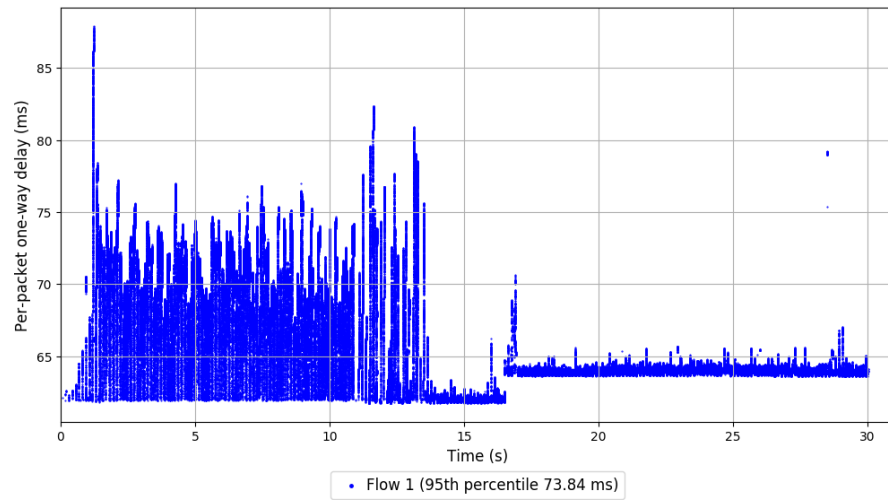
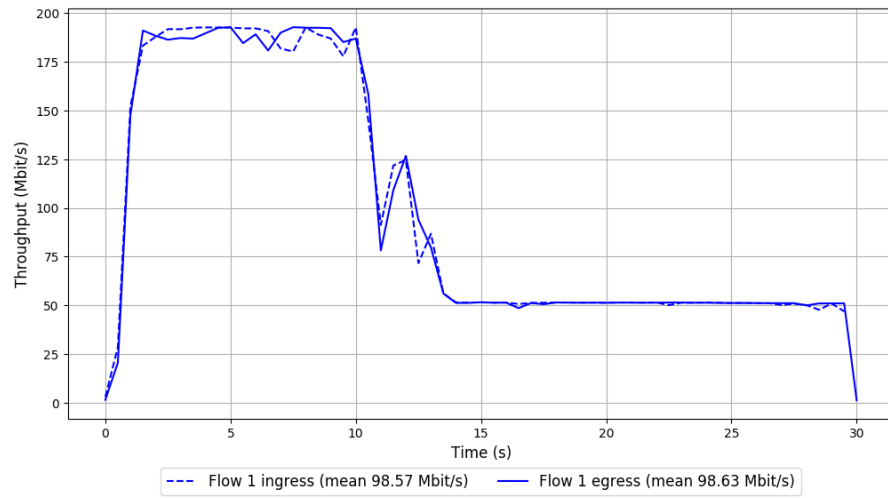
-- Flow 1:

Average throughput: 98.63 Mbit/s

95th percentile per-packet one-way delay: 73.843 ms

Loss rate: 0.01%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-02-13 13:51:28

End at: 2018-02-13 13:51:58

Below is generated by plot.py at 2018-02-13 17:58:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 152.89 Mbit/s

95th percentile per-packet one-way delay: 73.336 ms

Loss rate: 0.00%

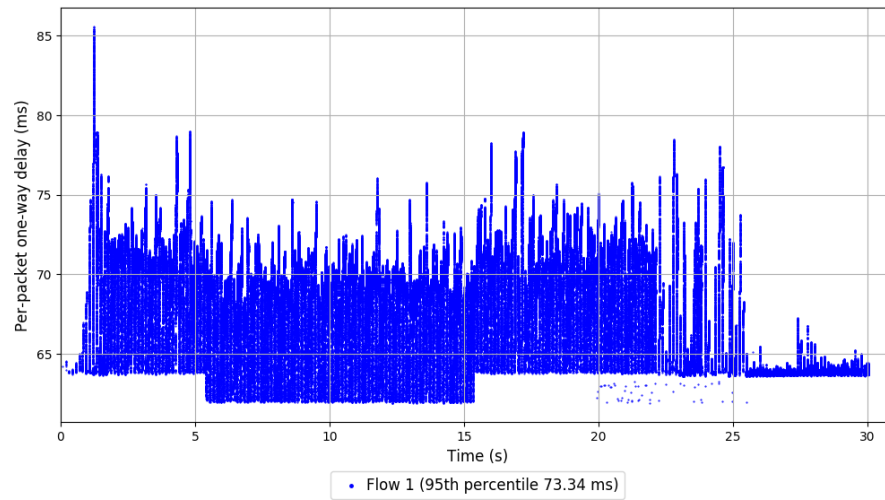
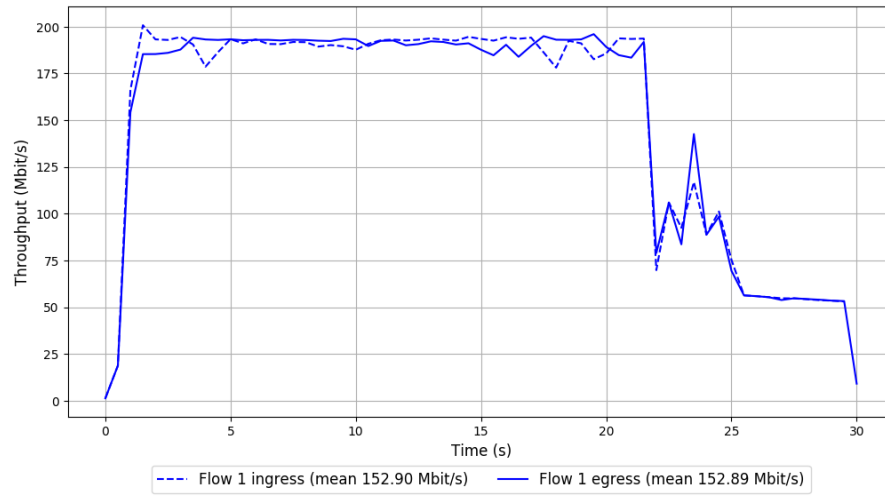
-- Flow 1:

Average throughput: 152.89 Mbit/s

95th percentile per-packet one-way delay: 73.336 ms

Loss rate: 0.00%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-02-13 14:06:12

End at: 2018-02-13 14:06:42

Below is generated by plot.py at 2018-02-13 17:58:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 120.20 Mbit/s

95th percentile per-packet one-way delay: 75.725 ms

Loss rate: 0.00%

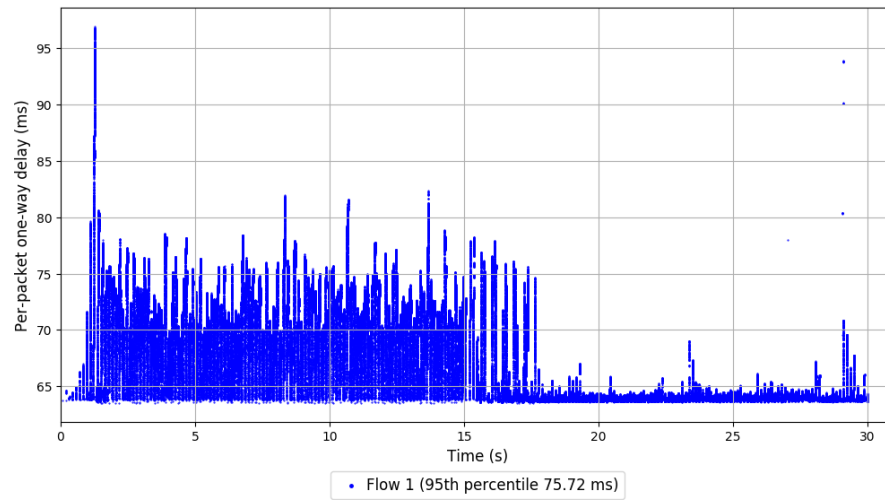
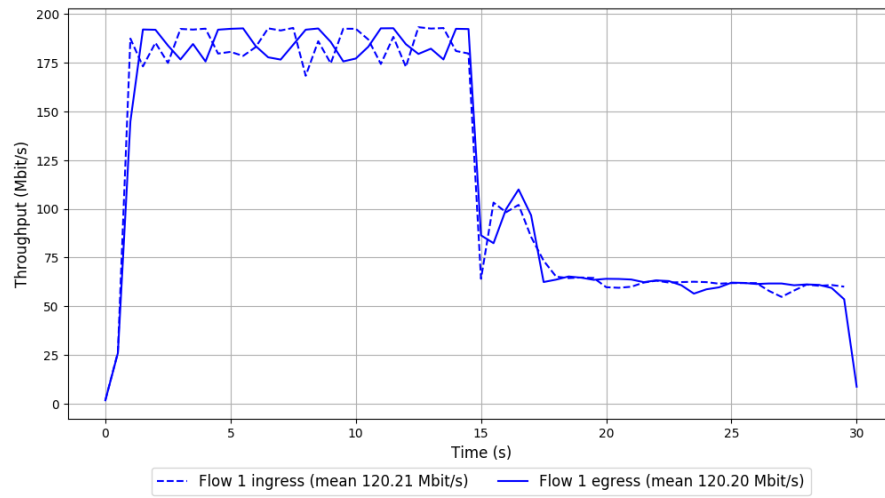
-- Flow 1:

Average throughput: 120.20 Mbit/s

95th percentile per-packet one-way delay: 75.725 ms

Loss rate: 0.00%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-02-13 14:20:55

End at: 2018-02-13 14:21:25

Below is generated by plot.py at 2018-02-13 17:58:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 110.81 Mbit/s

95th percentile per-packet one-way delay: 65.497 ms

Loss rate: 0.00%

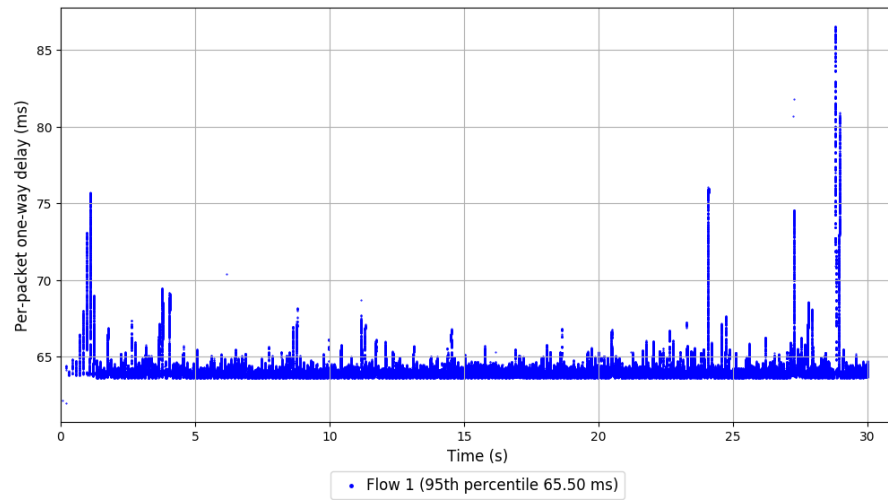
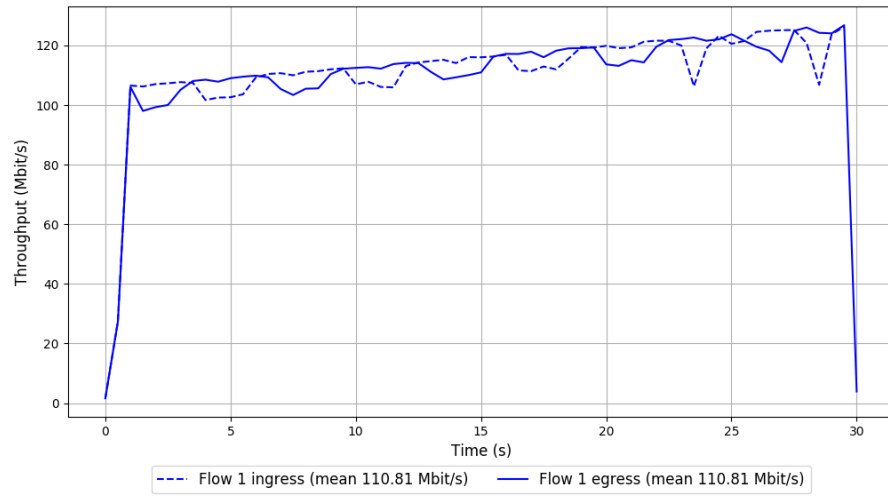
-- Flow 1:

Average throughput: 110.81 Mbit/s

95th percentile per-packet one-way delay: 65.497 ms

Loss rate: 0.00%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-02-13 14:35:42

End at: 2018-02-13 14:36:12

Below is generated by plot.py at 2018-02-13 17:58:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 35.40 Mbit/s

95th percentile per-packet one-way delay: 65.046 ms

Loss rate: 0.00%

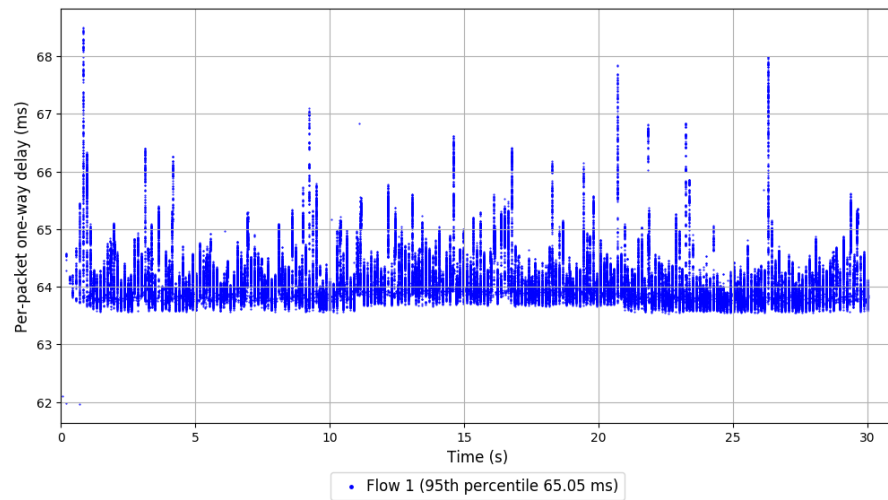
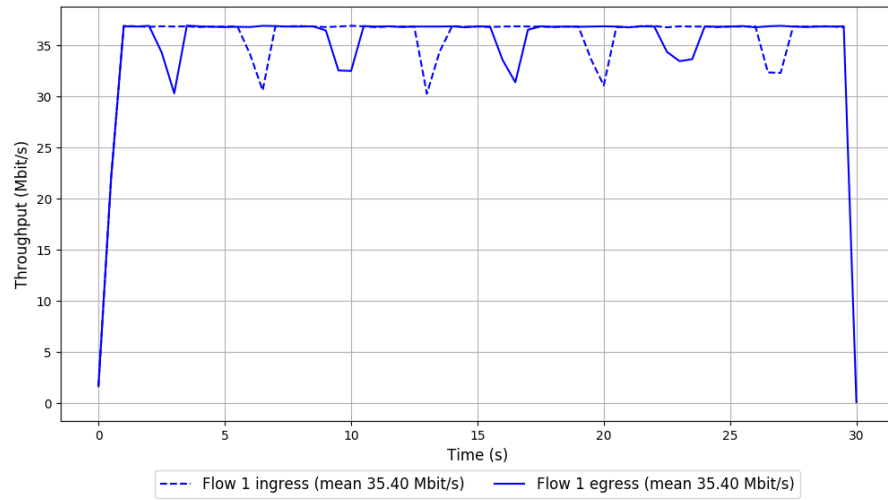
-- Flow 1:

Average throughput: 35.40 Mbit/s

95th percentile per-packet one-way delay: 65.046 ms

Loss rate: 0.00%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-02-13 14:50:32

End at: 2018-02-13 14:51:02

Below is generated by plot.py at 2018-02-13 17:58:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 17.00 Mbit/s

95th percentile per-packet one-way delay: 64.931 ms

Loss rate: 0.00%

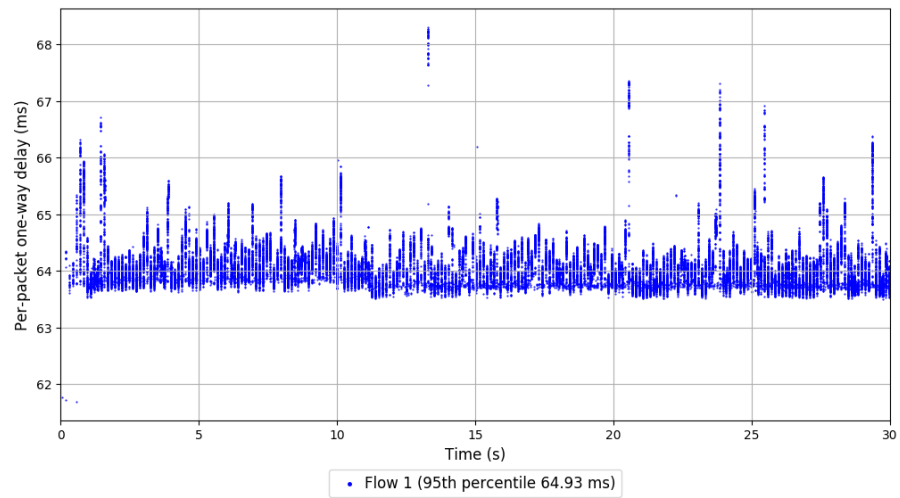
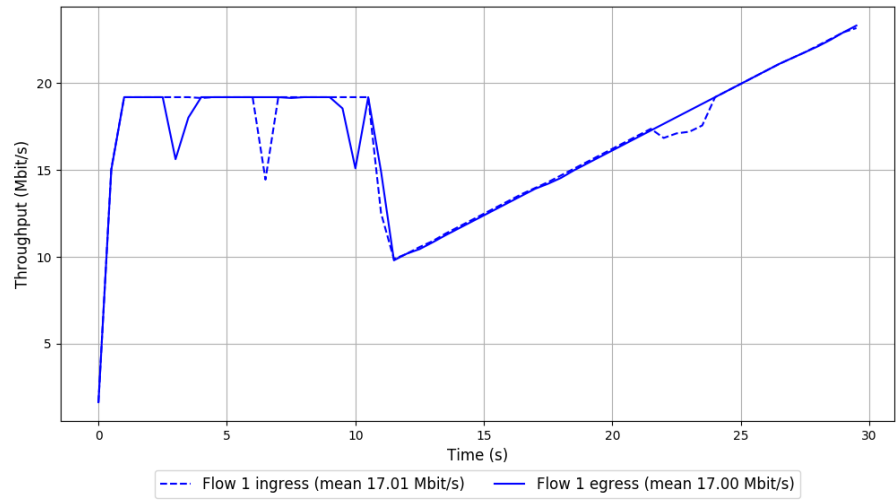
-- Flow 1:

Average throughput: 17.00 Mbit/s

95th percentile per-packet one-way delay: 64.931 ms

Loss rate: 0.00%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-02-13 15:05:14

End at: 2018-02-13 15:05:44

Below is generated by plot.py at 2018-02-13 17:58:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.96 Mbit/s

95th percentile per-packet one-way delay: 76.607 ms

Loss rate: 0.00%

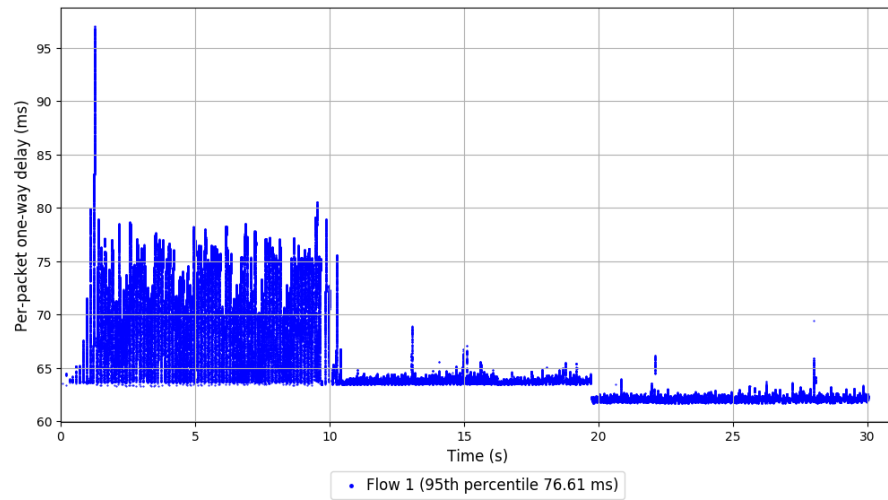
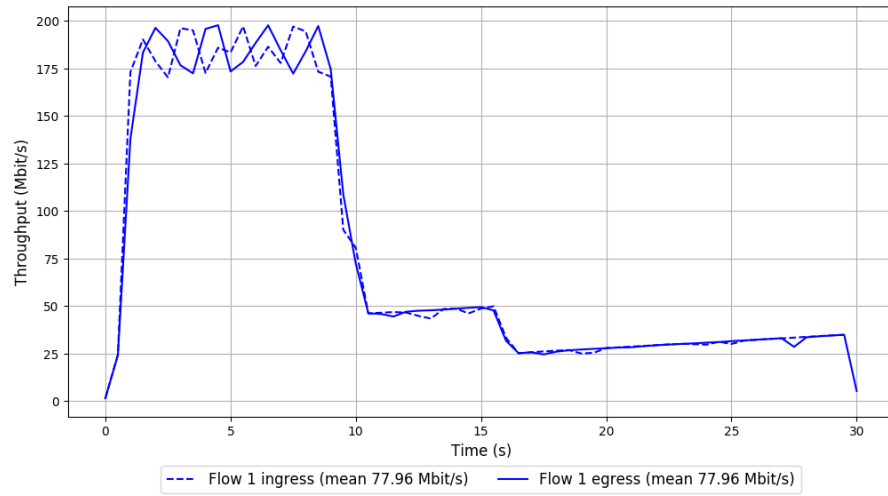
-- Flow 1:

Average throughput: 77.96 Mbit/s

95th percentile per-packet one-way delay: 76.607 ms

Loss rate: 0.00%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-02-13 15:20:00

End at: 2018-02-13 15:20:30

Below is generated by plot.py at 2018-02-13 17:58:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 158.64 Mbit/s

95th percentile per-packet one-way delay: 73.882 ms

Loss rate: 0.00%

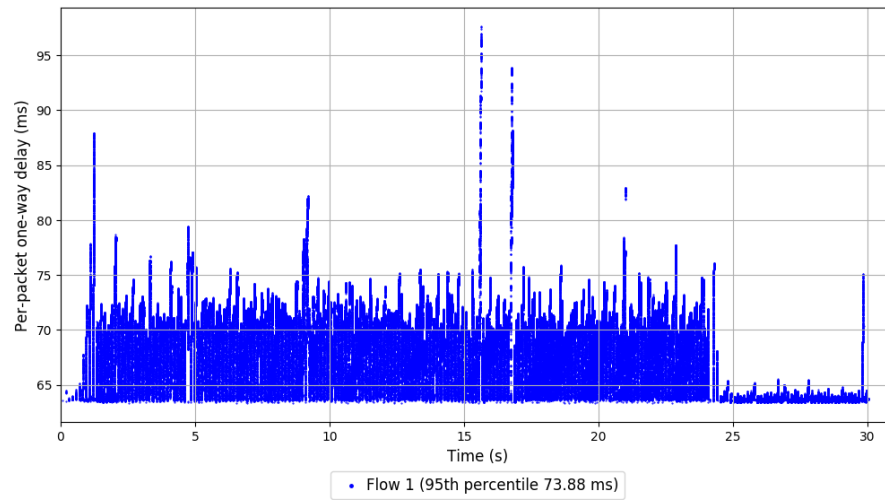
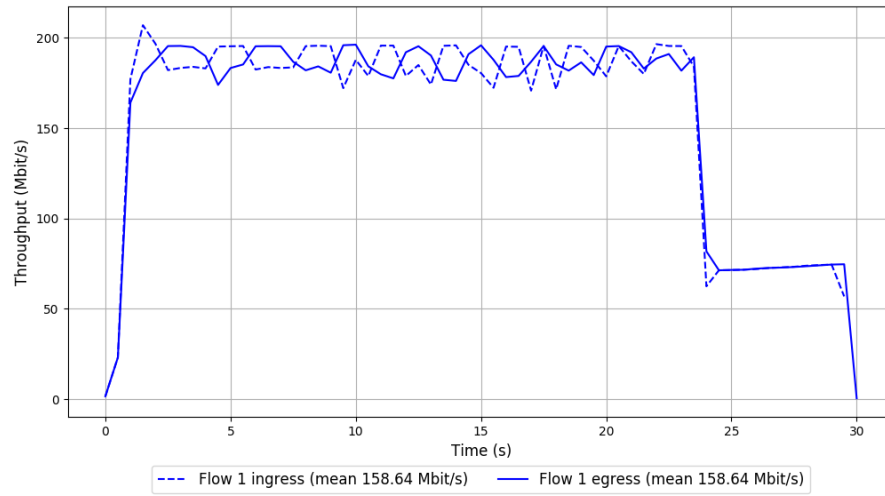
-- Flow 1:

Average throughput: 158.64 Mbit/s

95th percentile per-packet one-way delay: 73.882 ms

Loss rate: 0.00%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-02-13 15:35:00

End at: 2018-02-13 15:35:31

Below is generated by plot.py at 2018-02-13 17:58:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 79.88 Mbit/s

95th percentile per-packet one-way delay: 64.962 ms

Loss rate: 0.00%

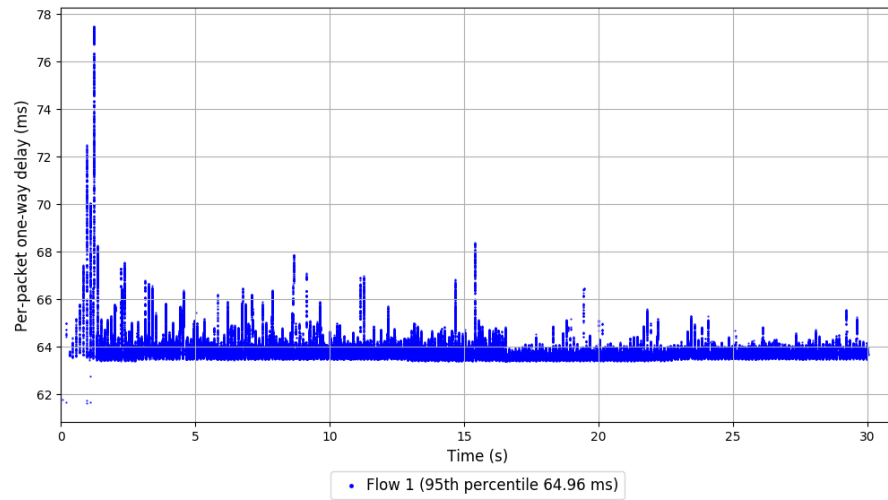
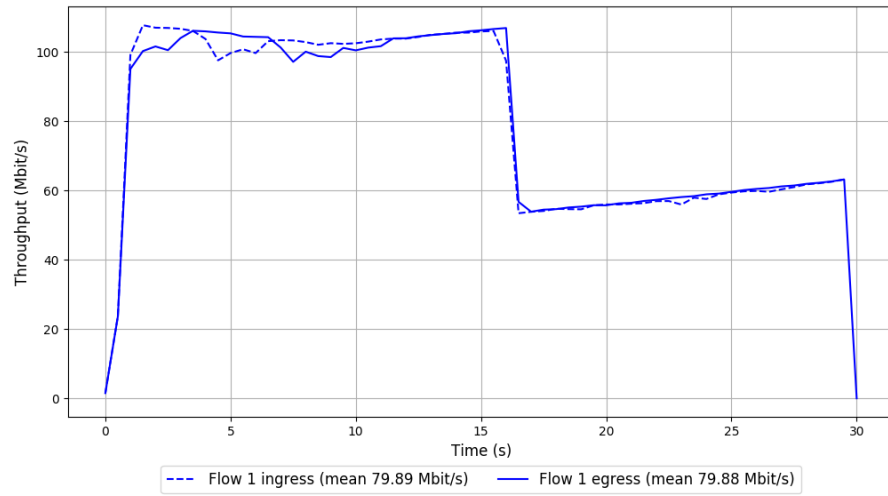
-- Flow 1:

Average throughput: 79.88 Mbit/s

95th percentile per-packet one-way delay: 64.962 ms

Loss rate: 0.00%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-02-13 15:49:57

End at: 2018-02-13 15:50:27

Below is generated by plot.py at 2018-02-13 17:58:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.55 Mbit/s

95th percentile per-packet one-way delay: 73.439 ms

Loss rate: 0.01%

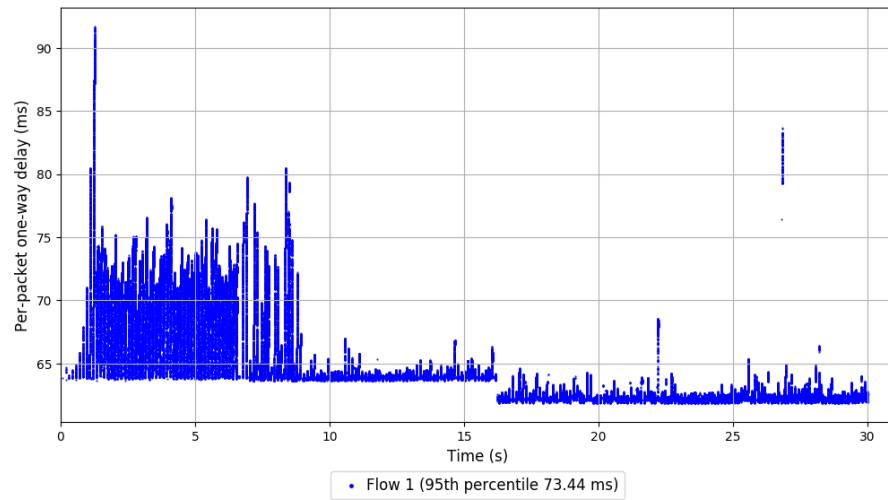
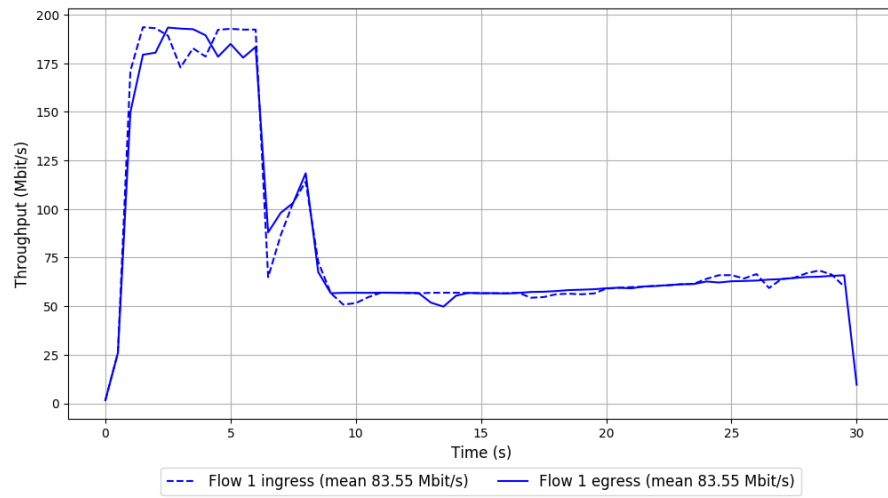
-- Flow 1:

Average throughput: 83.55 Mbit/s

95th percentile per-packet one-way delay: 73.439 ms

Loss rate: 0.01%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-02-13 13:44:36

End at: 2018-02-13 13:45:06

Below is generated by plot.py at 2018-02-13 17:59:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 282.83 Mbit/s

95th percentile per-packet one-way delay: 85.269 ms

Loss rate: 1.01%

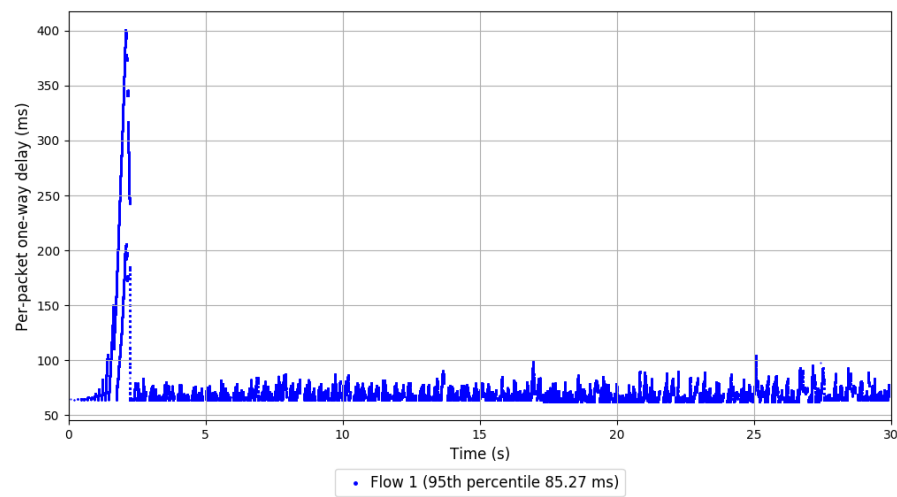
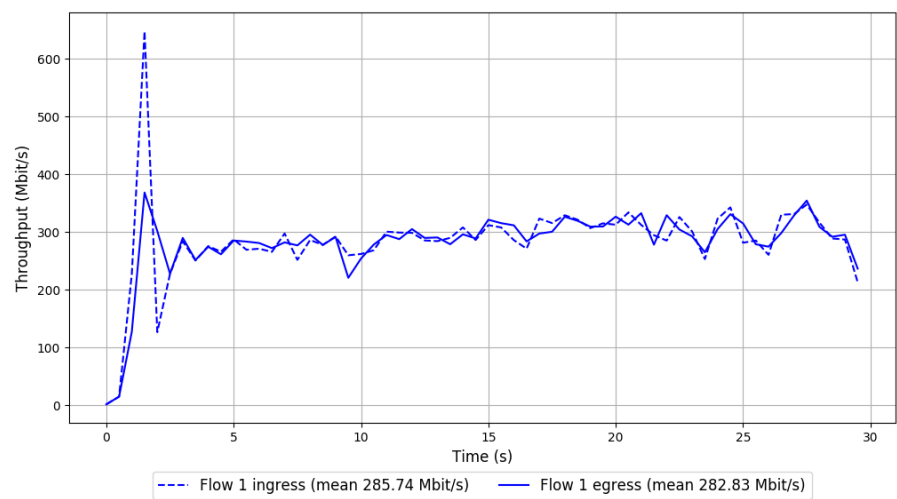
-- Flow 1:

Average throughput: 282.83 Mbit/s

95th percentile per-packet one-way delay: 85.269 ms

Loss rate: 1.01%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-02-13 13:59:27

End at: 2018-02-13 13:59:57

Below is generated by plot.py at 2018-02-13 17:59:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 297.35 Mbit/s

95th percentile per-packet one-way delay: 100.679 ms

Loss rate: 0.68%

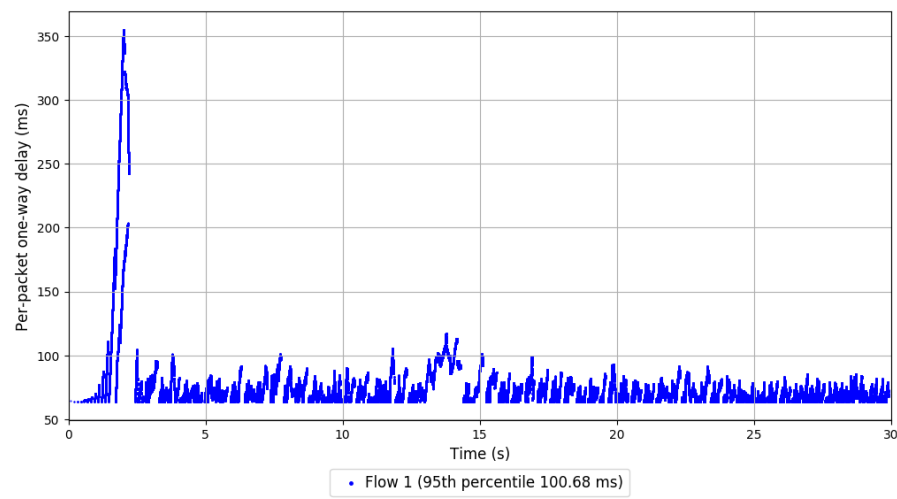
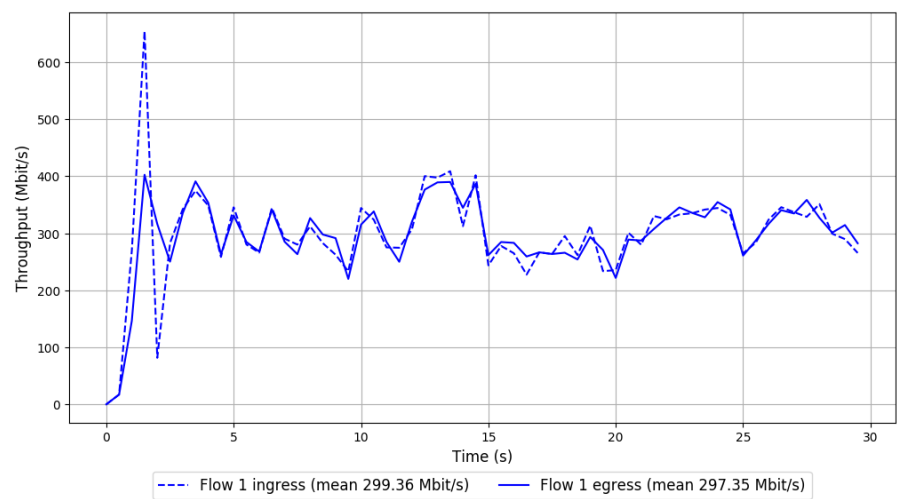
-- Flow 1:

Average throughput: 297.35 Mbit/s

95th percentile per-packet one-way delay: 100.679 ms

Loss rate: 0.68%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-02-13 14:14:18

End at: 2018-02-13 14:14:48

Below is generated by plot.py at 2018-02-13 17:59:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 275.33 Mbit/s

95th percentile per-packet one-way delay: 206.704 ms

Loss rate: 0.99%

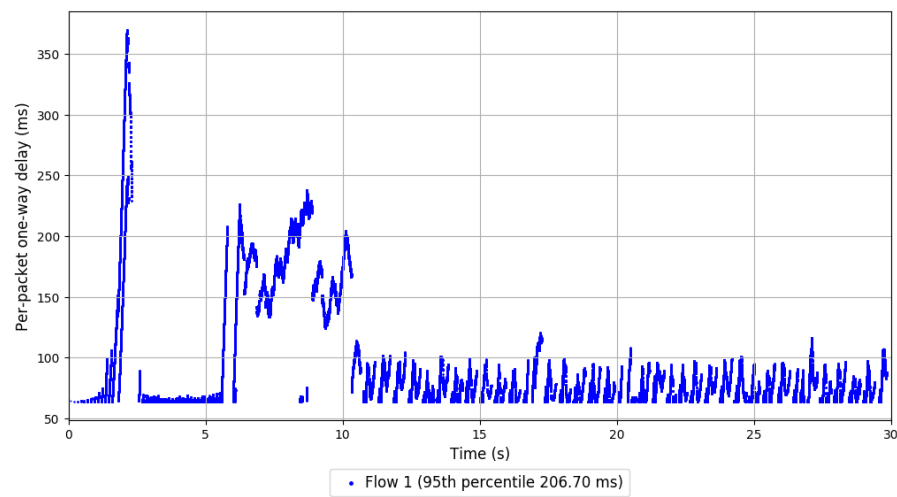
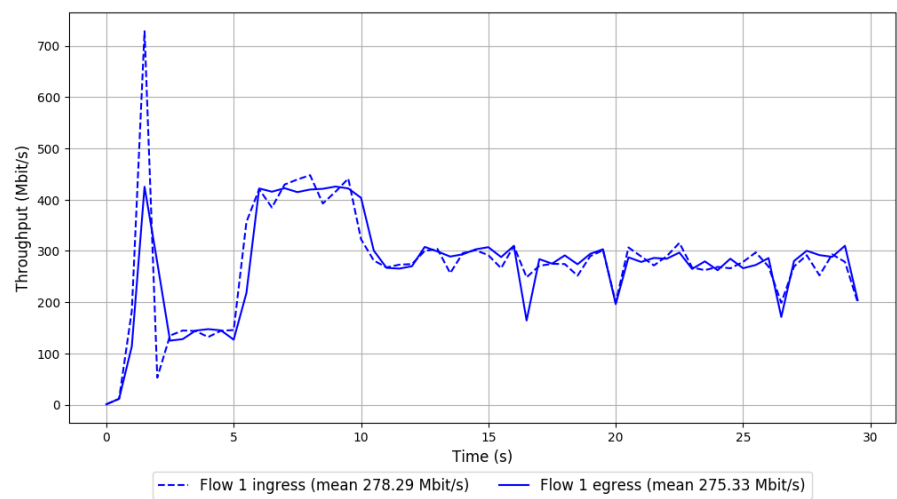
-- Flow 1:

Average throughput: 275.33 Mbit/s

95th percentile per-packet one-way delay: 206.704 ms

Loss rate: 0.99%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-02-13 14:28:53

End at: 2018-02-13 14:29:23

Below is generated by plot.py at 2018-02-13 17:59:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 252.10 Mbit/s

95th percentile per-packet one-way delay: 90.336 ms

Loss rate: 1.08%

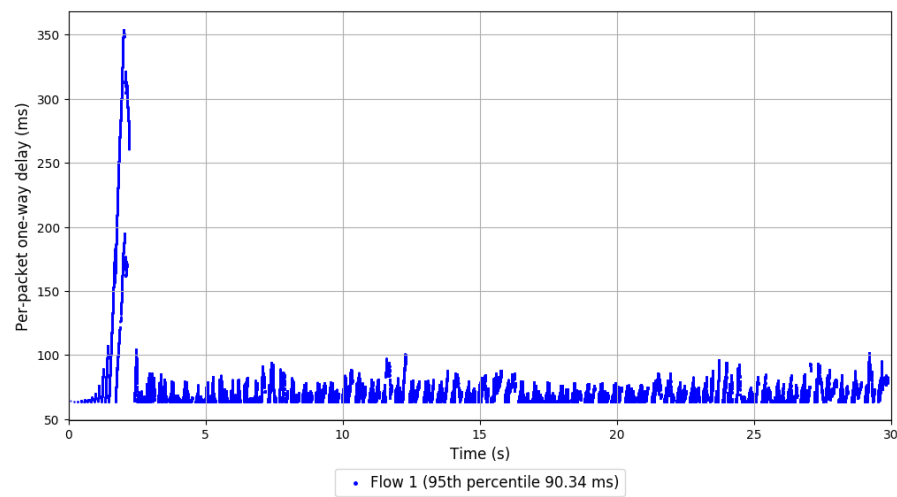
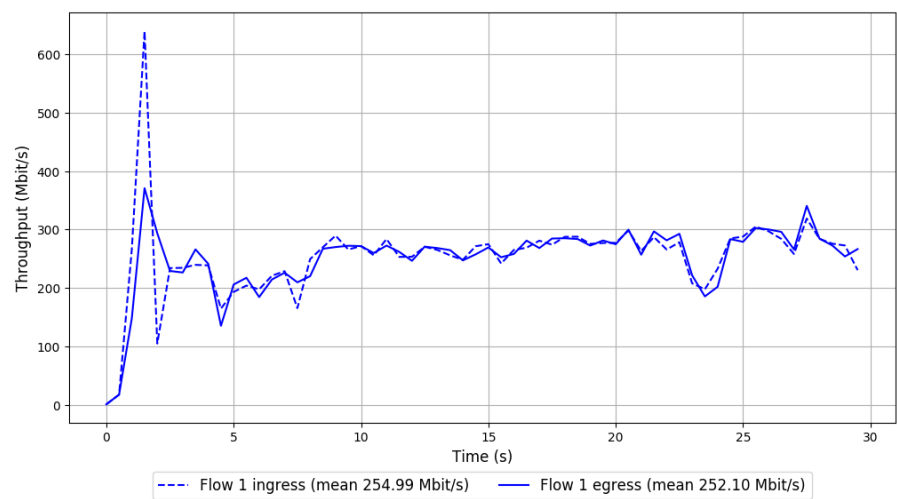
-- Flow 1:

Average throughput: 252.10 Mbit/s

95th percentile per-packet one-way delay: 90.336 ms

Loss rate: 1.08%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-02-13 14:43:48

End at: 2018-02-13 14:44:18

Below is generated by plot.py at 2018-02-13 18:01:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 301.64 Mbit/s

95th percentile per-packet one-way delay: 105.734 ms

Loss rate: 0.68%

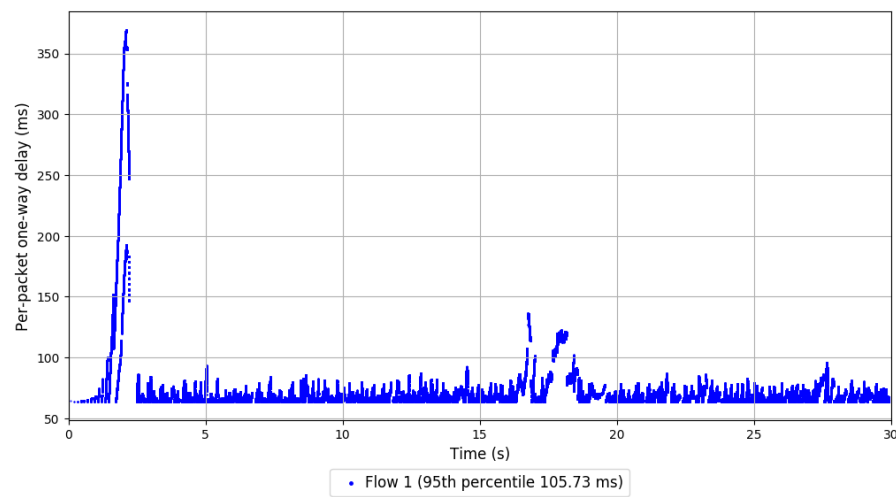
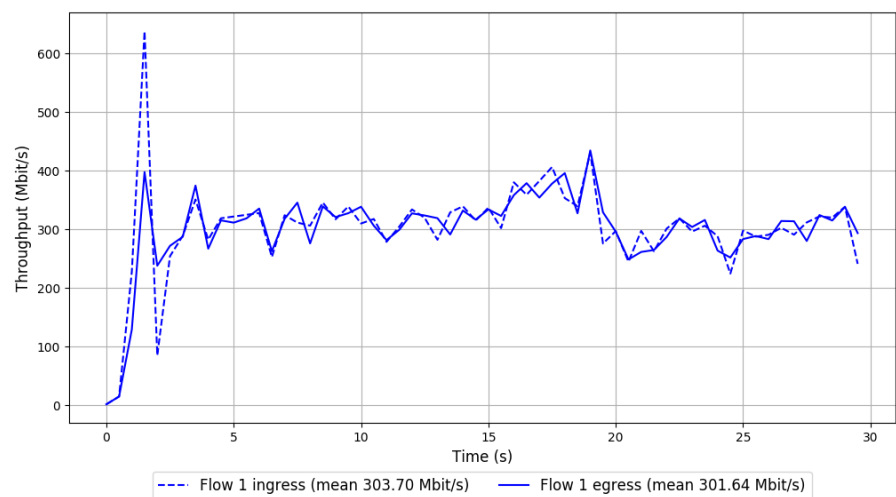
-- Flow 1:

Average throughput: 301.64 Mbit/s

95th percentile per-packet one-way delay: 105.734 ms

Loss rate: 0.68%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-02-13 14:58:31

End at: 2018-02-13 14:59:01

Below is generated by plot.py at 2018-02-13 18:01:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 256.33 Mbit/s

95th percentile per-packet one-way delay: 88.510 ms

Loss rate: 0.39%

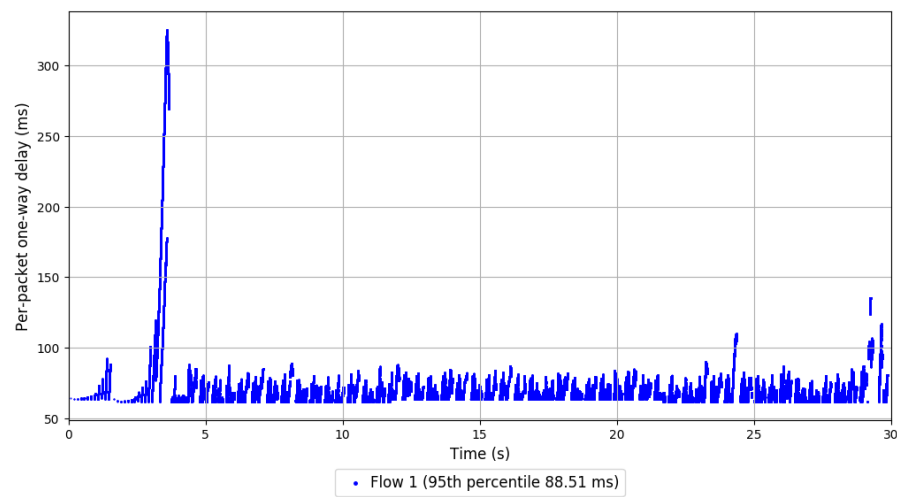
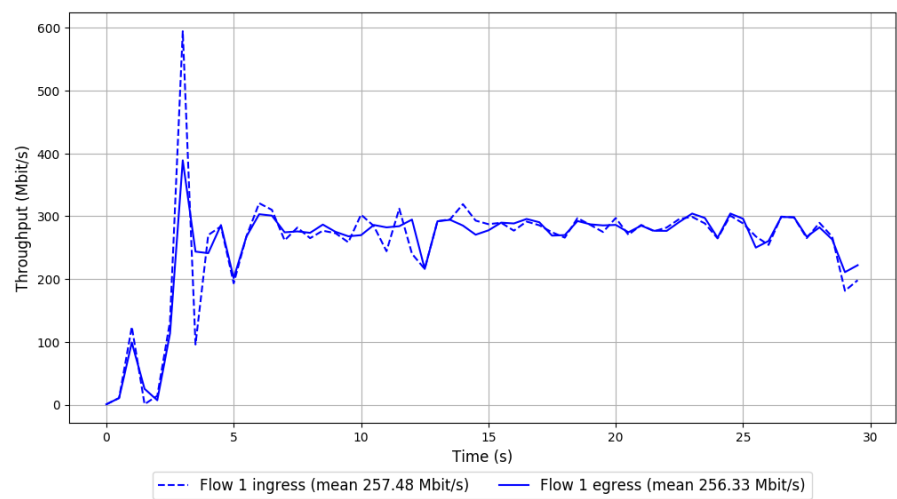
-- Flow 1:

Average throughput: 256.33 Mbit/s

95th percentile per-packet one-way delay: 88.510 ms

Loss rate: 0.39%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-02-13 15:13:13

End at: 2018-02-13 15:13:43

Below is generated by plot.py at 2018-02-13 18:01:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 286.97 Mbit/s

95th percentile per-packet one-way delay: 87.353 ms

Loss rate: 0.34%

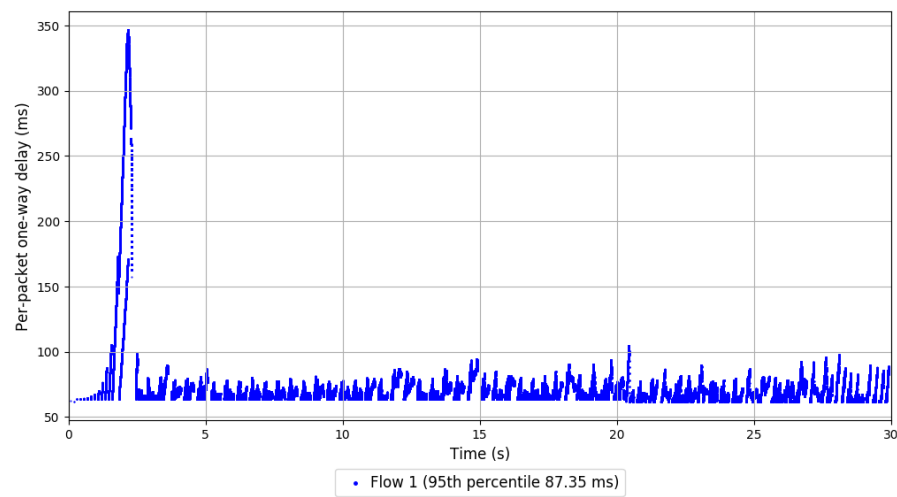
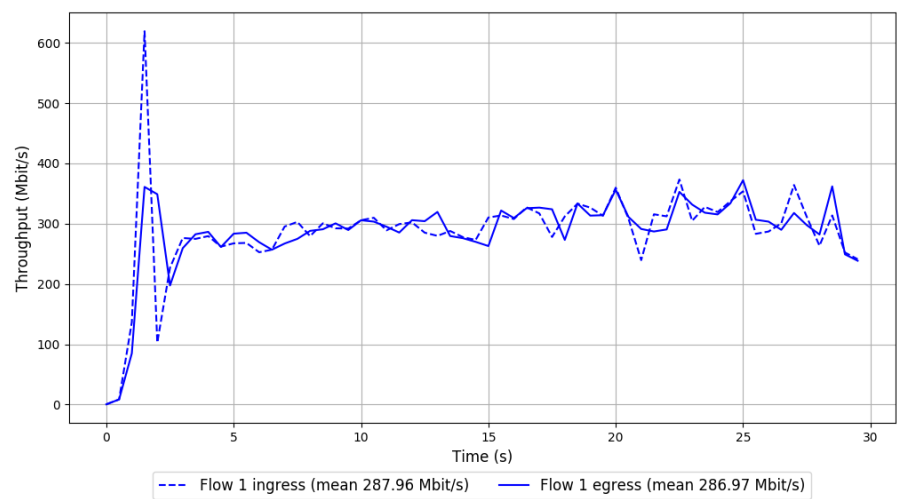
-- Flow 1:

Average throughput: 286.97 Mbit/s

95th percentile per-packet one-way delay: 87.353 ms

Loss rate: 0.34%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-02-13 15:28:07

End at: 2018-02-13 15:28:37

Below is generated by plot.py at 2018-02-13 18:02:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 253.55 Mbit/s

95th percentile per-packet one-way delay: 114.147 ms

Loss rate: 1.45%

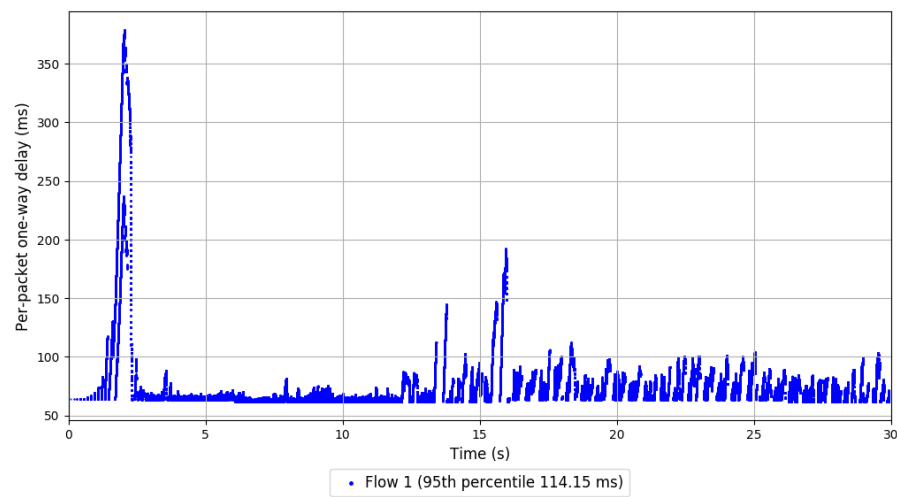
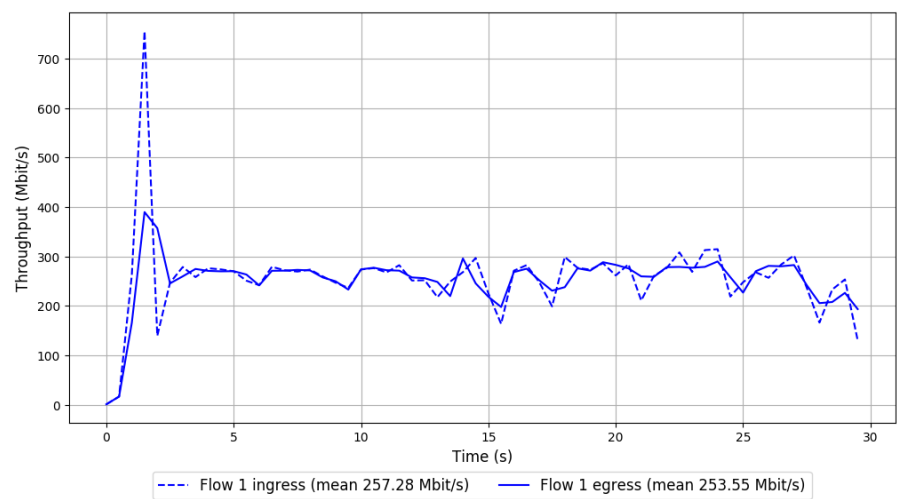
-- Flow 1:

Average throughput: 253.55 Mbit/s

95th percentile per-packet one-way delay: 114.147 ms

Loss rate: 1.45%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-02-13 15:43:06

End at: 2018-02-13 15:43:36

Below is generated by plot.py at 2018-02-13 18:03:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 244.22 Mbit/s

95th percentile per-packet one-way delay: 106.136 ms

Loss rate: 1.05%

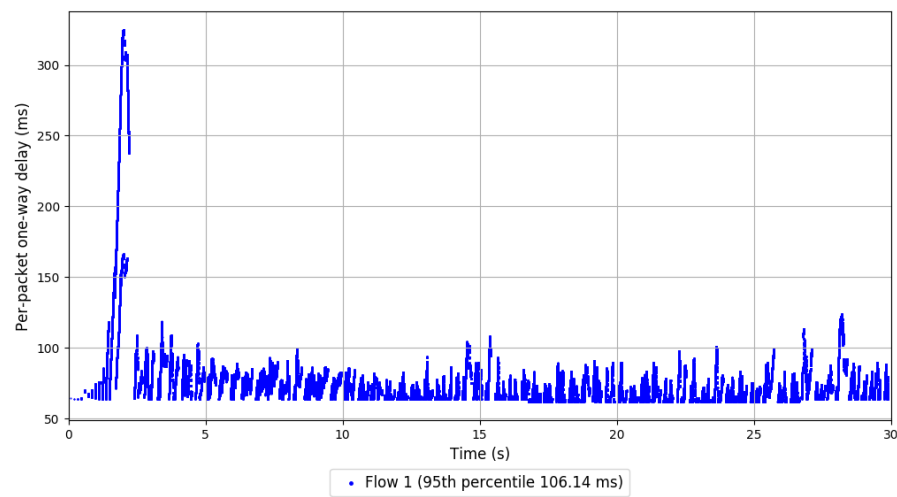
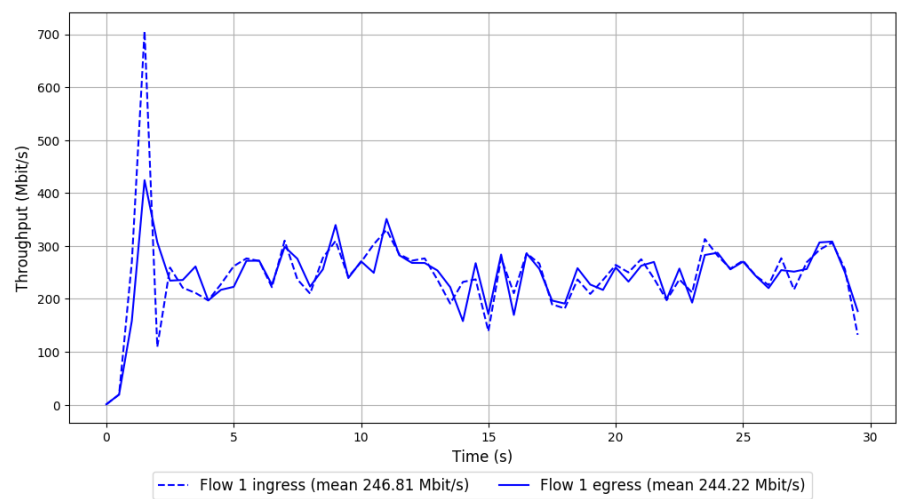
-- Flow 1:

Average throughput: 244.22 Mbit/s

95th percentile per-packet one-way delay: 106.136 ms

Loss rate: 1.05%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-02-13 15:58:04

End at: 2018-02-13 15:58:34

Below is generated by plot.py at 2018-02-13 18:03:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 215.95 Mbit/s

95th percentile per-packet one-way delay: 115.724 ms

Loss rate: 0.60%

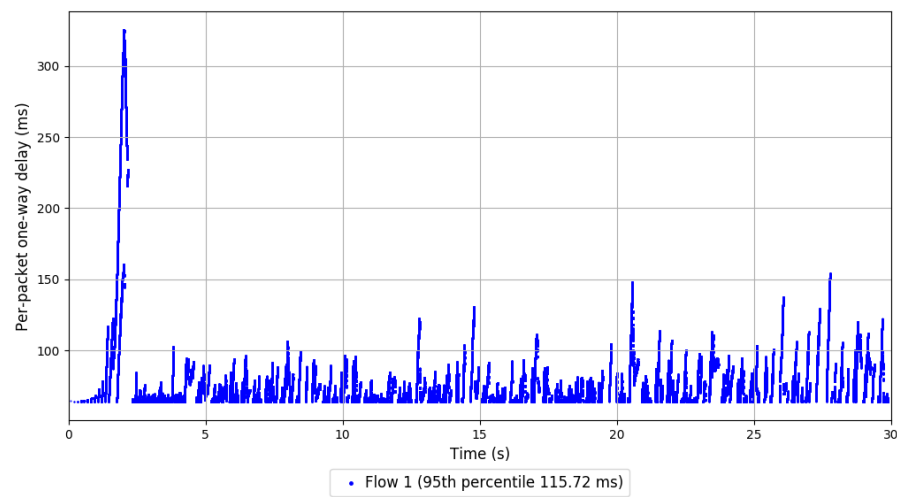
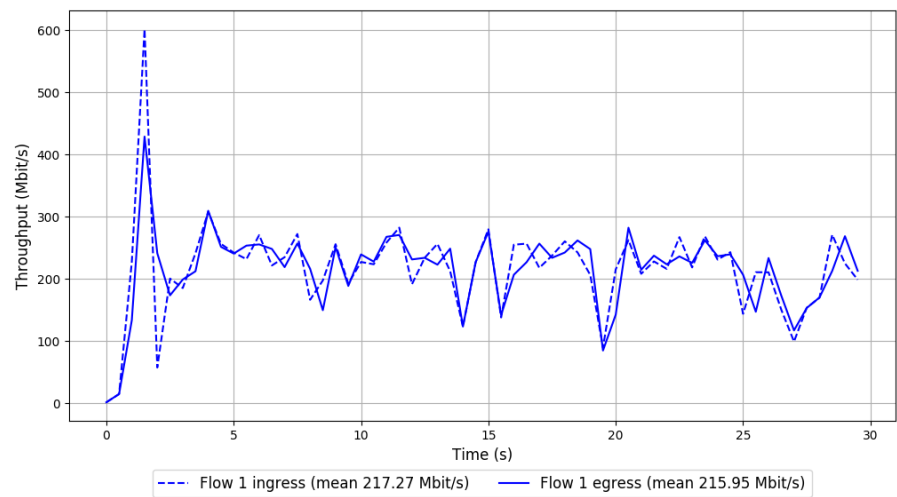
-- Flow 1:

Average throughput: 215.95 Mbit/s

95th percentile per-packet one-way delay: 115.724 ms

Loss rate: 0.60%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2018-02-13 13:39:51

End at: 2018-02-13 13:40:21

Below is generated by plot.py at 2018-02-13 18:03:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 60.12 Mbit/s

95th percentile per-packet one-way delay: 63.880 ms

Loss rate: 0.00%

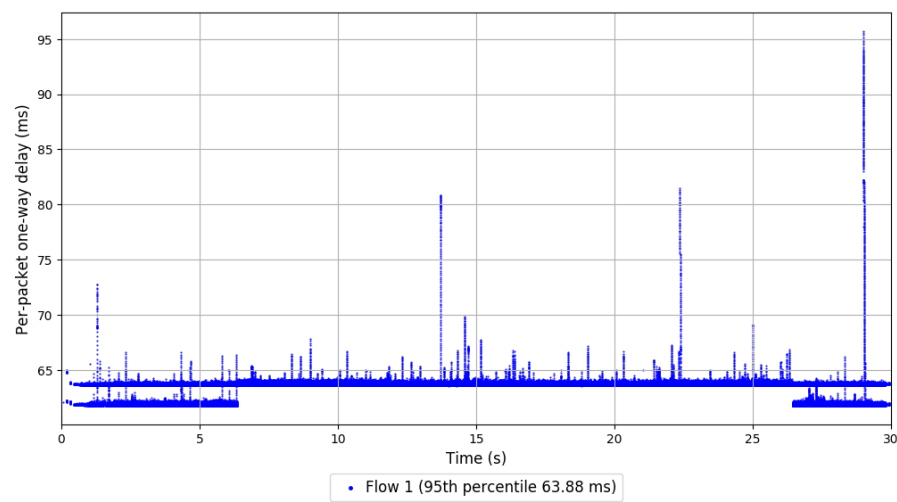
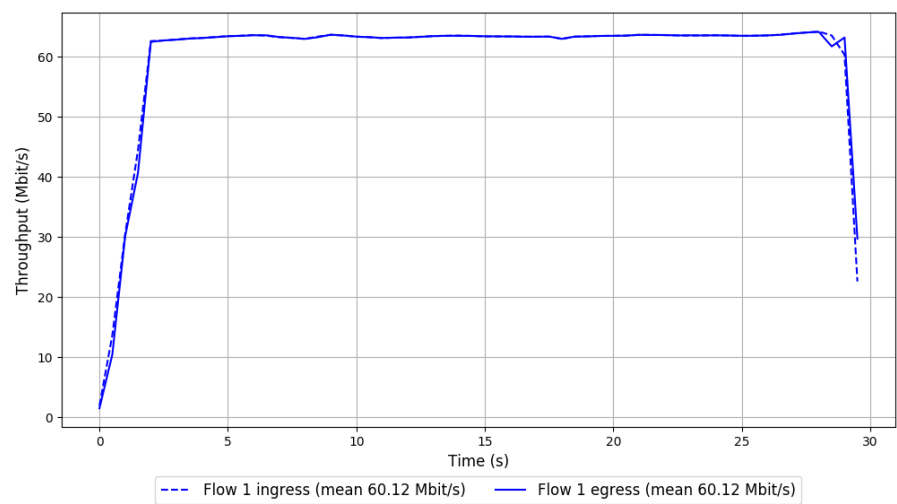
-- Flow 1:

Average throughput: 60.12 Mbit/s

95th percentile per-packet one-way delay: 63.880 ms

Loss rate: 0.00%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-02-13 13:54:36

End at: 2018-02-13 13:55:06

Below is generated by plot.py at 2018-02-13 18:03:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 69.68 Mbit/s

95th percentile per-packet one-way delay: 63.864 ms

Loss rate: 0.00%

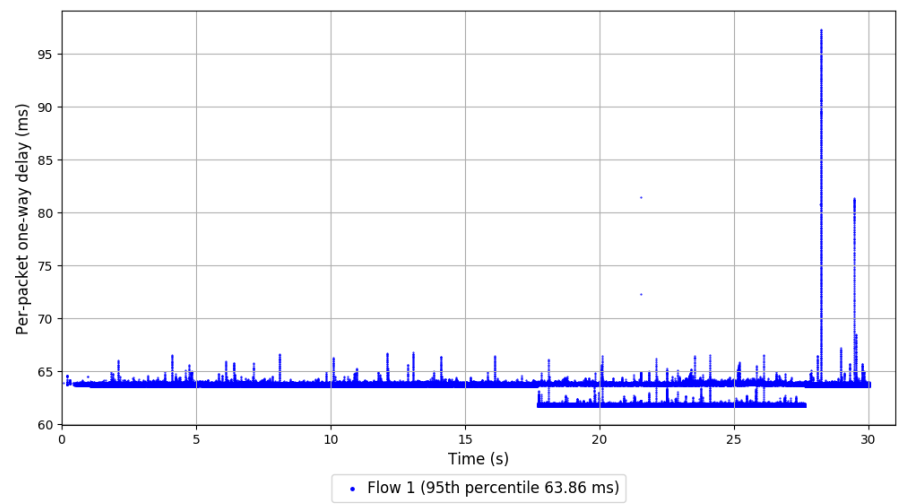
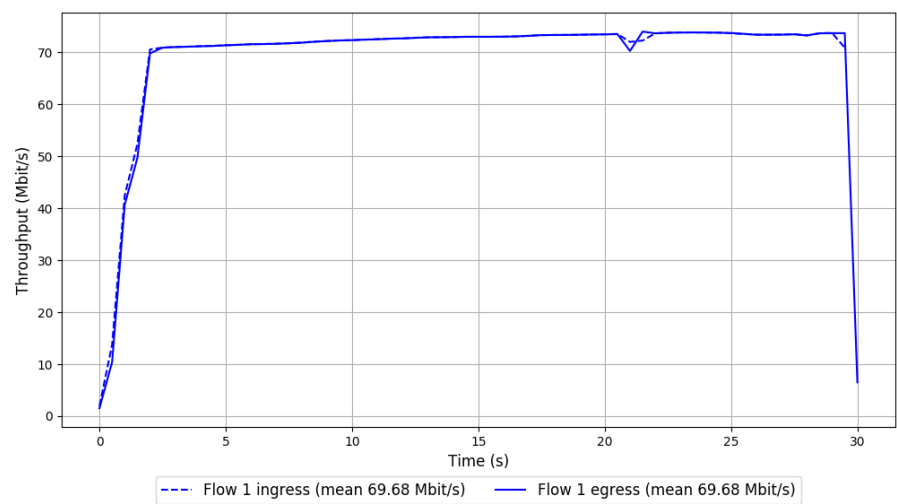
-- Flow 1:

Average throughput: 69.68 Mbit/s

95th percentile per-packet one-way delay: 63.864 ms

Loss rate: 0.00%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-02-13 14:09:21

End at: 2018-02-13 14:09:51

Below is generated by plot.py at 2018-02-13 18:03:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 51.10 Mbit/s

95th percentile per-packet one-way delay: 63.824 ms

Loss rate: 0.01%

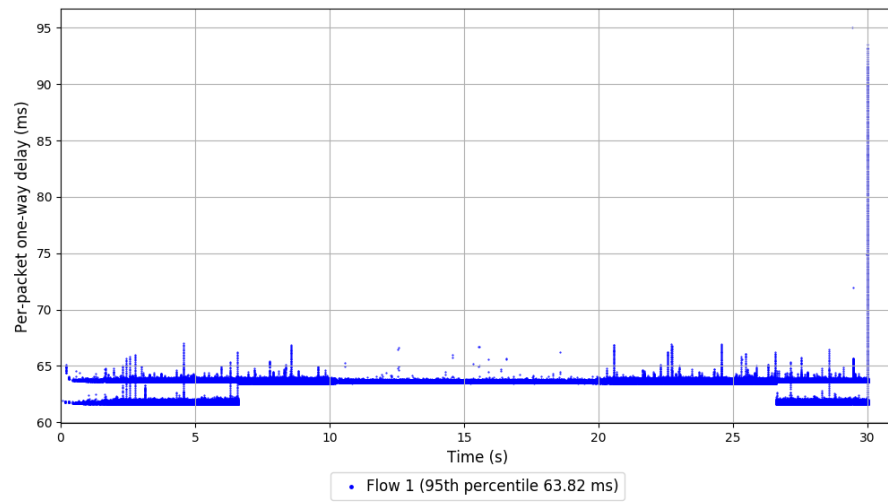
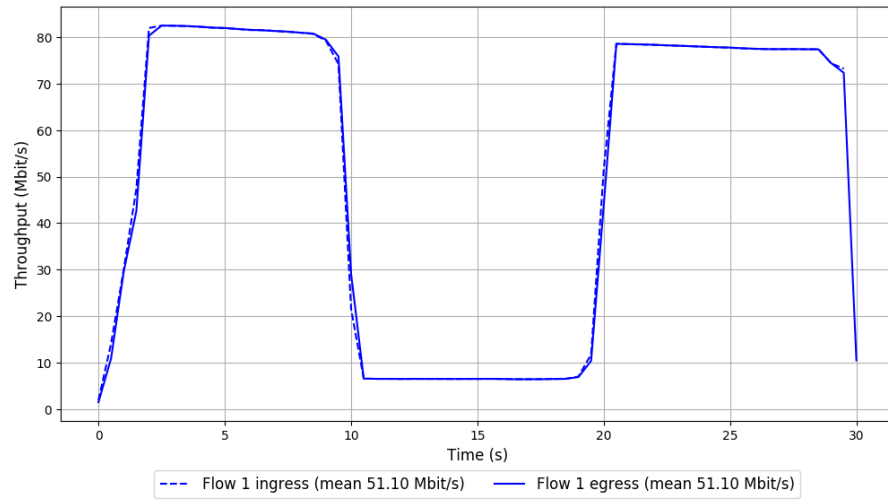
-- Flow 1:

Average throughput: 51.10 Mbit/s

95th percentile per-packet one-way delay: 63.824 ms

Loss rate: 0.01%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-02-13 14:24:01

End at: 2018-02-13 14:24:31

Below is generated by plot.py at 2018-02-13 18:03:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 30.87 Mbit/s

95th percentile per-packet one-way delay: 63.847 ms

Loss rate: 0.00%

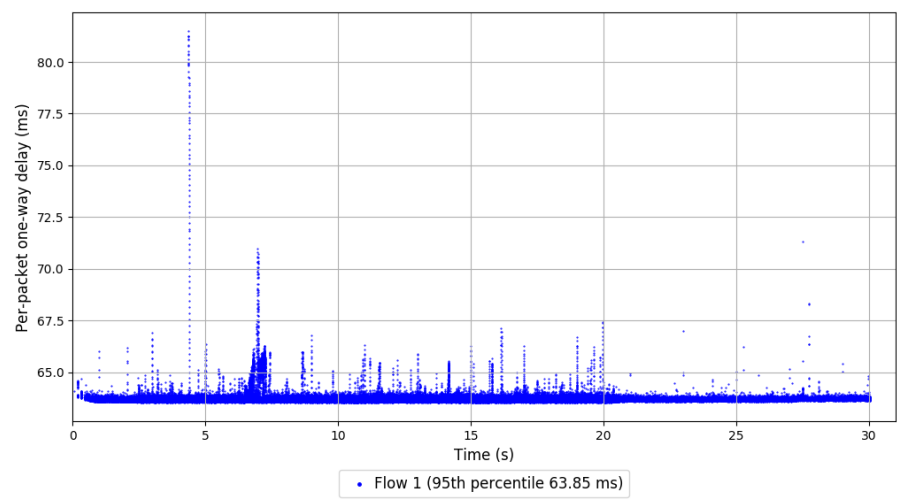
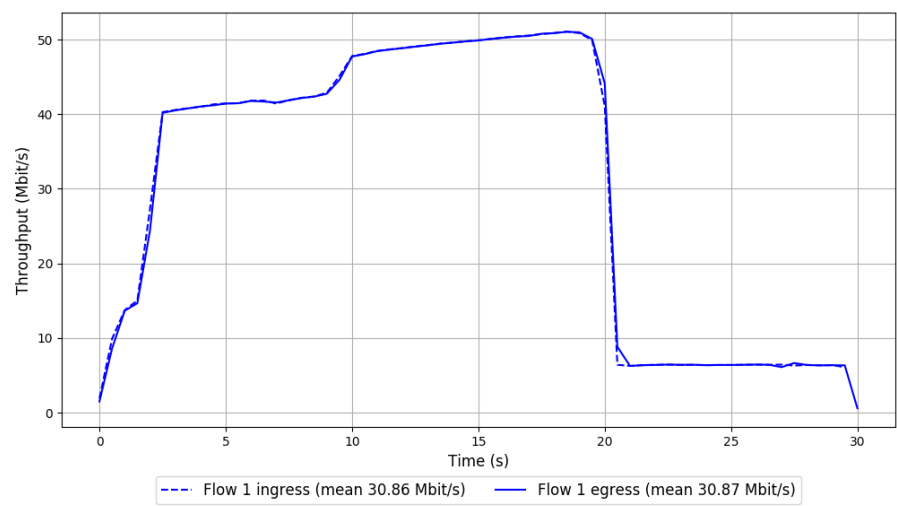
-- Flow 1:

Average throughput: 30.87 Mbit/s

95th percentile per-packet one-way delay: 63.847 ms

Loss rate: 0.00%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-02-13 14:38:48

End at: 2018-02-13 14:39:18

Below is generated by plot.py at 2018-02-13 18:03:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 56.24 Mbit/s

95th percentile per-packet one-way delay: 63.787 ms

Loss rate: 0.01%

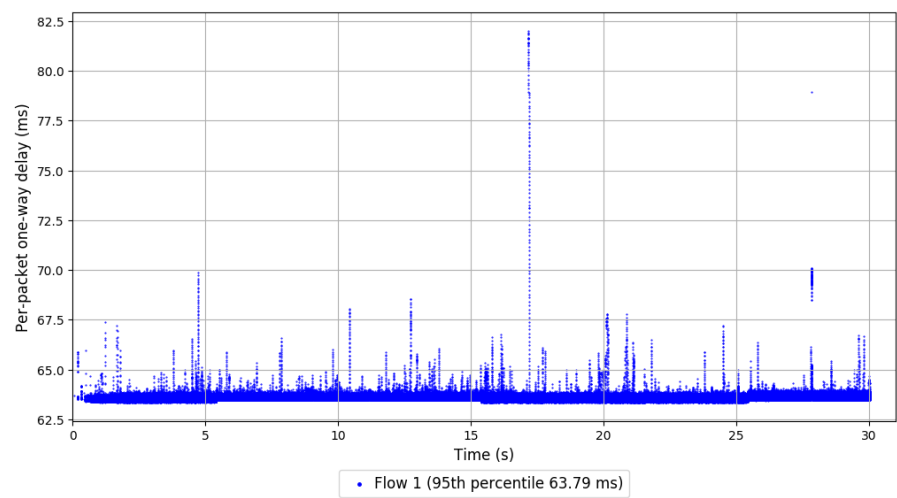
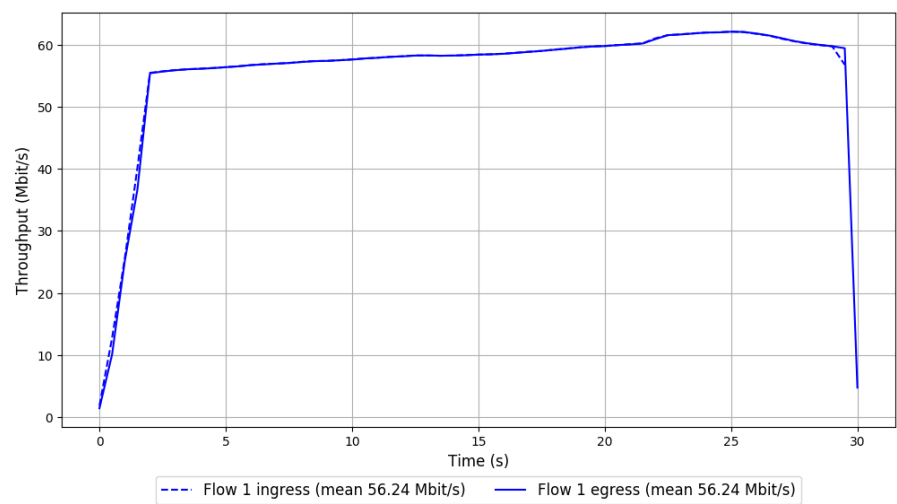
-- Flow 1:

Average throughput: 56.24 Mbit/s

95th percentile per-packet one-way delay: 63.787 ms

Loss rate: 0.01%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-02-13 14:53:35

End at: 2018-02-13 14:54:05

Below is generated by plot.py at 2018-02-13 18:03:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 26.95 Mbit/s

95th percentile per-packet one-way delay: 63.766 ms

Loss rate: 0.00%

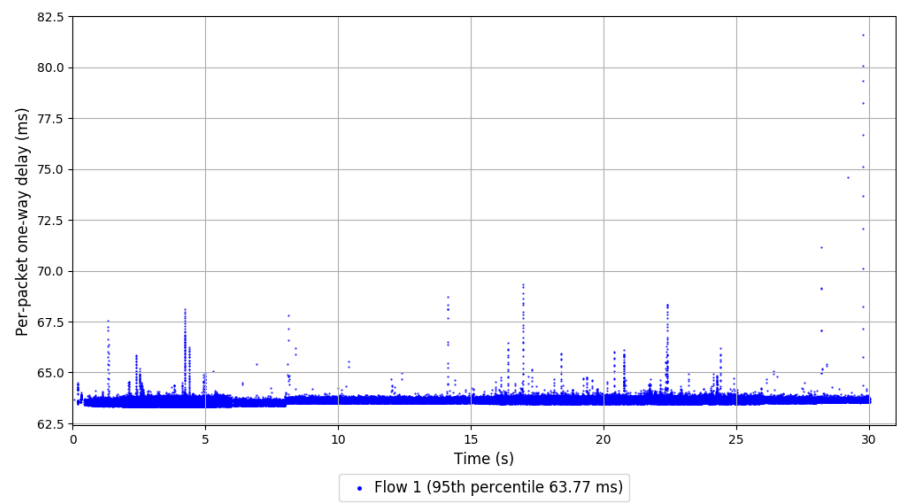
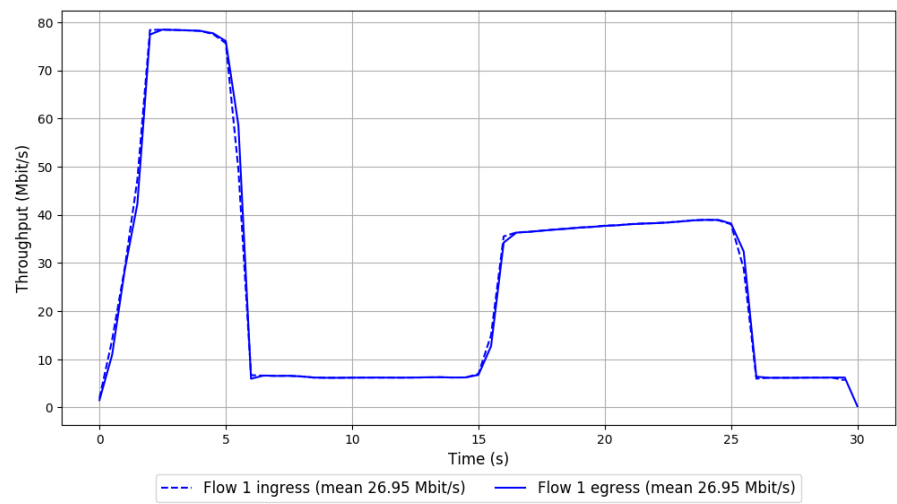
-- Flow 1:

Average throughput: 26.95 Mbit/s

95th percentile per-packet one-way delay: 63.766 ms

Loss rate: 0.00%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-02-13 15:08:19

End at: 2018-02-13 15:08:49

Below is generated by plot.py at 2018-02-13 18:03:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 40.06 Mbit/s

95th percentile per-packet one-way delay: 63.729 ms

Loss rate: 0.00%

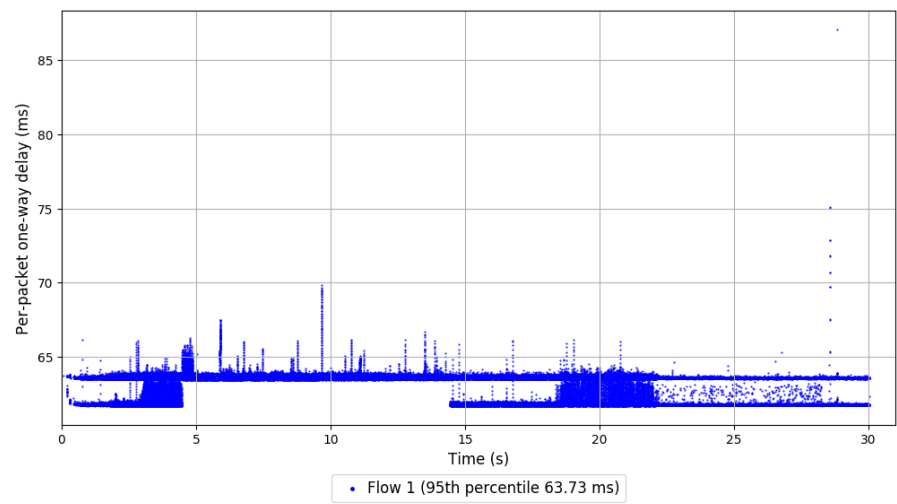
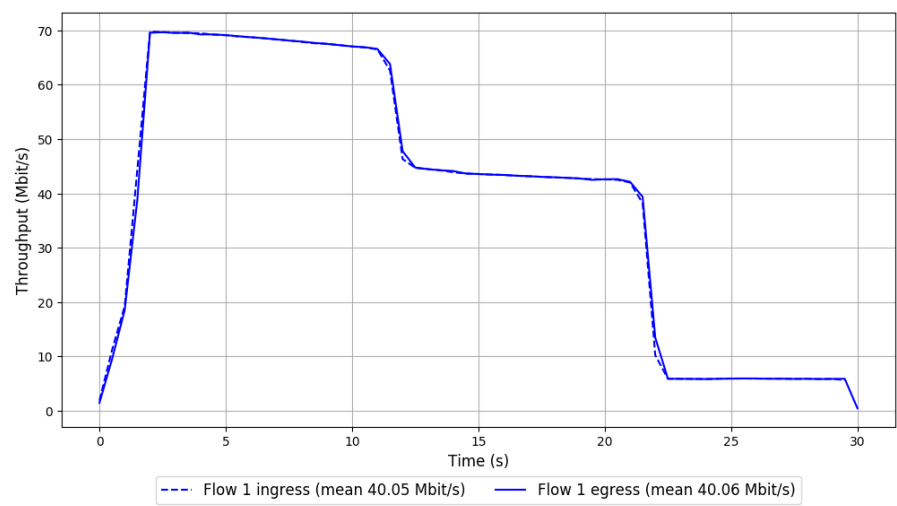
-- Flow 1:

Average throughput: 40.06 Mbit/s

95th percentile per-packet one-way delay: 63.729 ms

Loss rate: 0.00%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-02-13 15:23:10

End at: 2018-02-13 15:23:40

Below is generated by plot.py at 2018-02-13 18:03:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 53.72 Mbit/s

95th percentile per-packet one-way delay: 63.570 ms

Loss rate: 0.00%

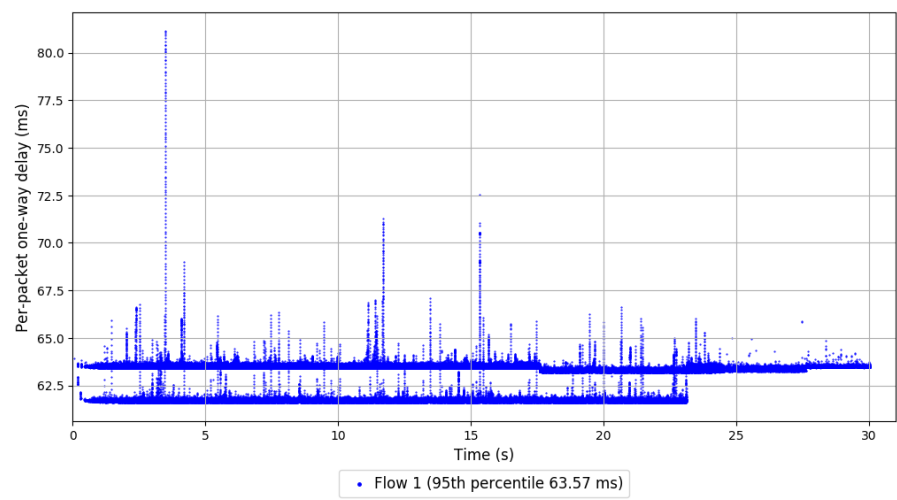
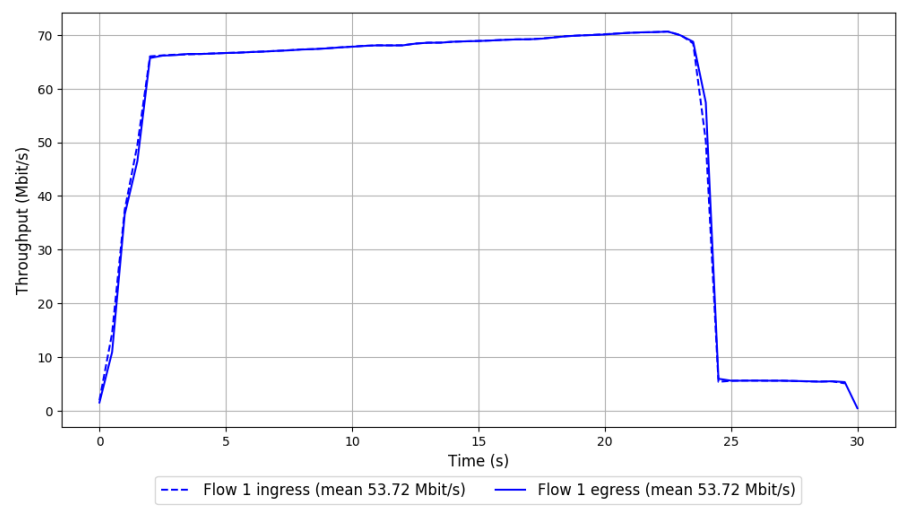
-- Flow 1:

Average throughput: 53.72 Mbit/s

95th percentile per-packet one-way delay: 63.570 ms

Loss rate: 0.00%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-02-13 15:38:08

End at: 2018-02-13 15:38:38

Below is generated by plot.py at 2018-02-13 18:04:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 68.72 Mbit/s

95th percentile per-packet one-way delay: 63.671 ms

Loss rate: 0.00%

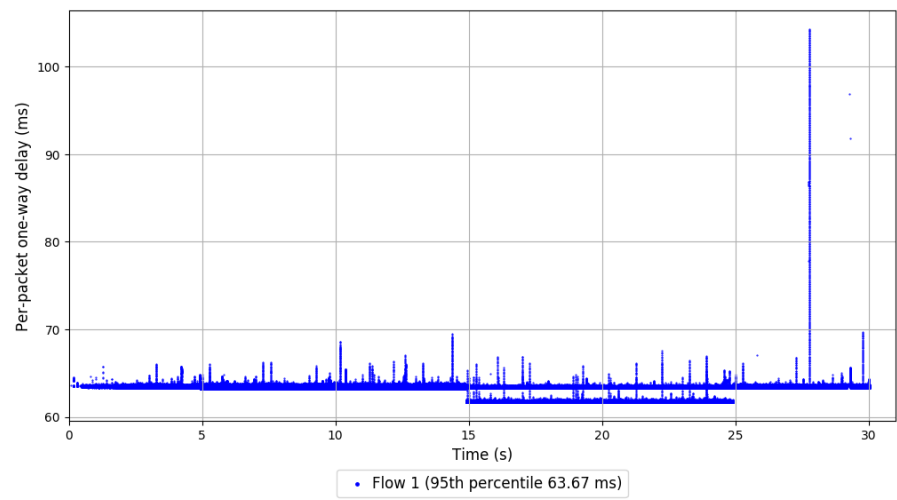
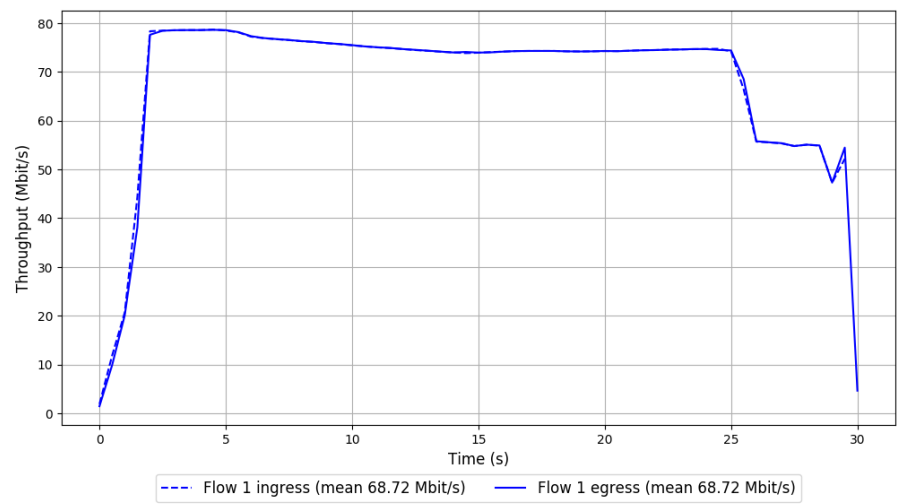
-- Flow 1:

Average throughput: 68.72 Mbit/s

95th percentile per-packet one-way delay: 63.671 ms

Loss rate: 0.00%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-02-13 15:53:05

End at: 2018-02-13 15:53:35

Below is generated by plot.py at 2018-02-13 18:04:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.24 Mbit/s

95th percentile per-packet one-way delay: 65.409 ms

Loss rate: 0.36%

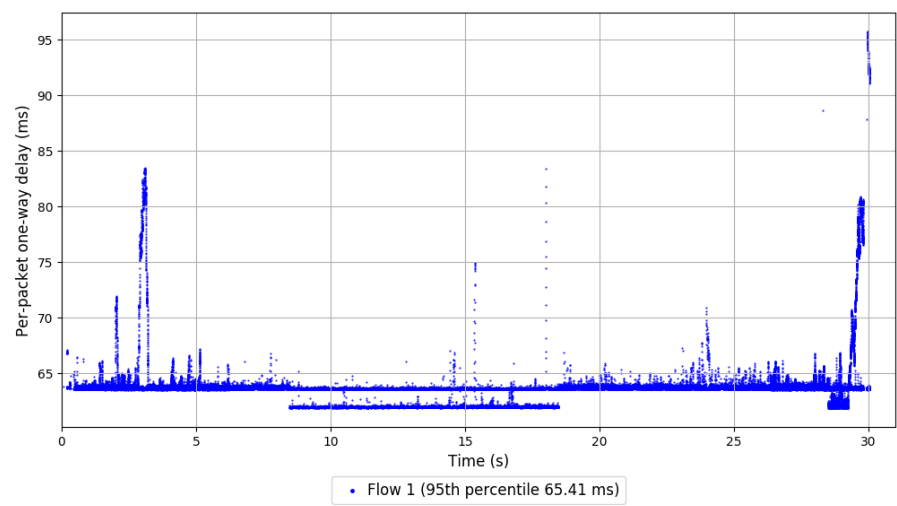
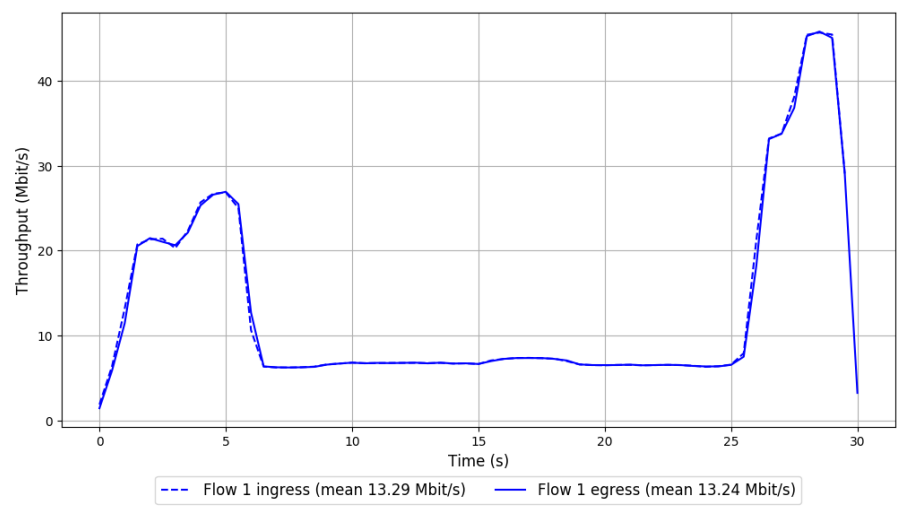
-- Flow 1:

Average throughput: 13.24 Mbit/s

95th percentile per-packet one-way delay: 65.409 ms

Loss rate: 0.36%

Run 10: Report of Copa — Data Link



Run 1: Statistics of FillP

Start at: 2018-02-13 13:46:27

End at: 2018-02-13 13:46:57

Below is generated by plot.py at 2018-02-13 18:16:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 802.66 Mbit/s

95th percentile per-packet one-way delay: 313.074 ms

Loss rate: 10.99%

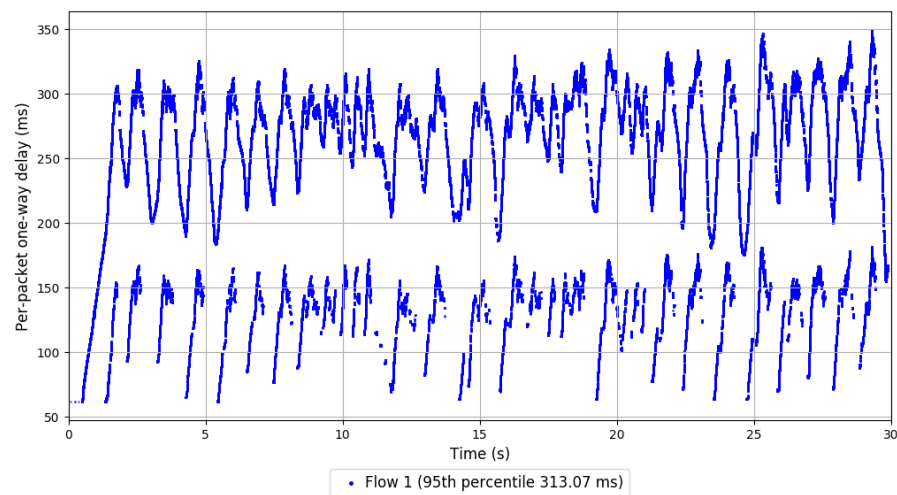
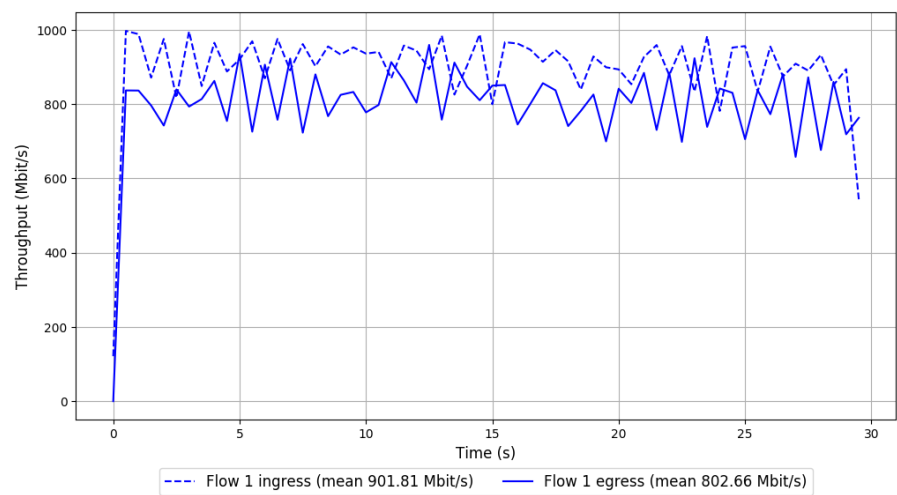
-- Flow 1:

Average throughput: 802.66 Mbit/s

95th percentile per-packet one-way delay: 313.074 ms

Loss rate: 10.99%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-02-13 14:01:14

End at: 2018-02-13 14:01:44

Below is generated by plot.py at 2018-02-13 18:16:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 817.04 Mbit/s

95th percentile per-packet one-way delay: 306.027 ms

Loss rate: 10.18%

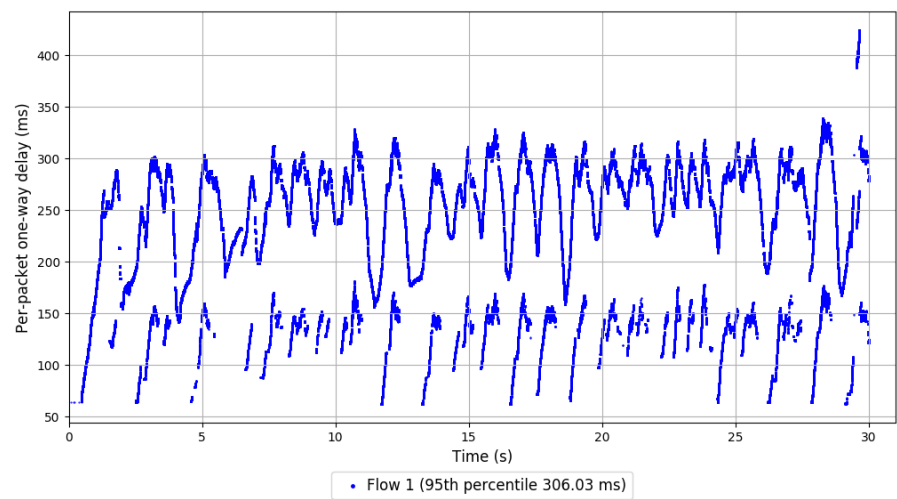
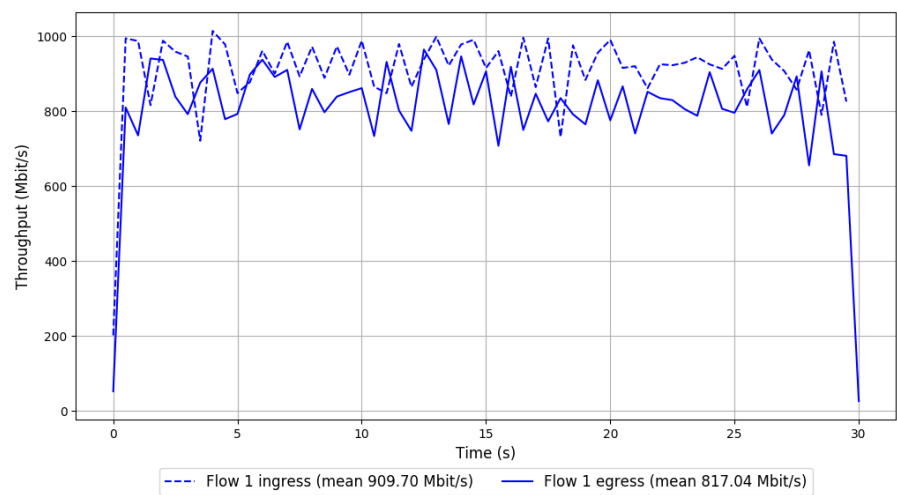
-- Flow 1:

Average throughput: 817.04 Mbit/s

95th percentile per-packet one-way delay: 306.027 ms

Loss rate: 10.18%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-02-13 14:16:02

End at: 2018-02-13 14:16:32

Below is generated by plot.py at 2018-02-13 18:16:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 786.45 Mbit/s

95th percentile per-packet one-way delay: 312.881 ms

Loss rate: 10.84%

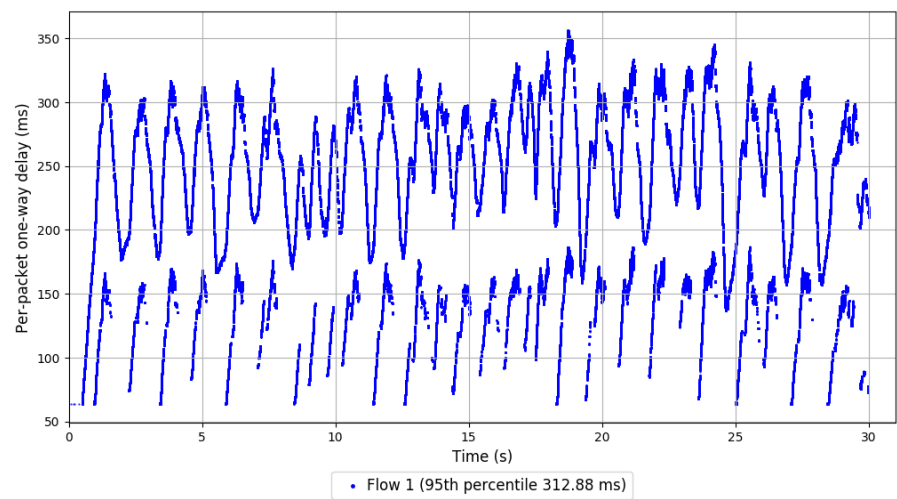
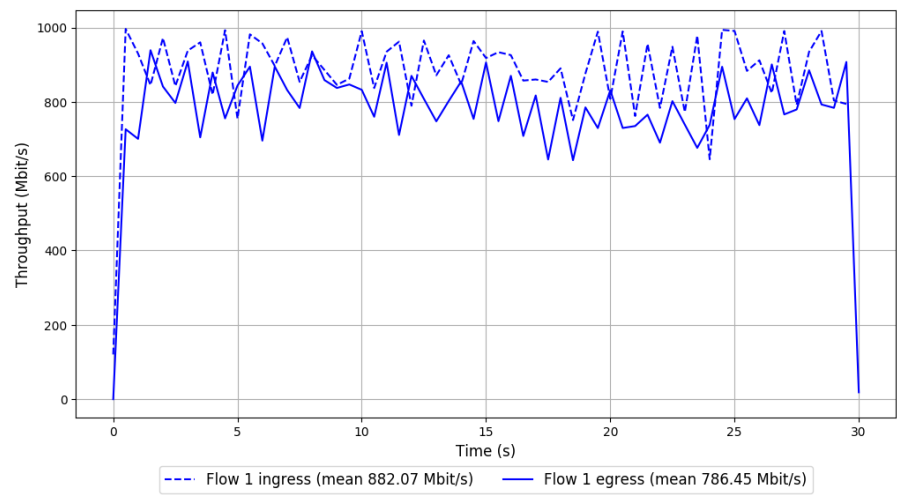
-- Flow 1:

Average throughput: 786.45 Mbit/s

95th percentile per-packet one-way delay: 312.881 ms

Loss rate: 10.84%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-02-13 14:30:39

End at: 2018-02-13 14:31:09

Below is generated by plot.py at 2018-02-13 18:16:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 773.04 Mbit/s

95th percentile per-packet one-way delay: 331.944 ms

Loss rate: 11.75%

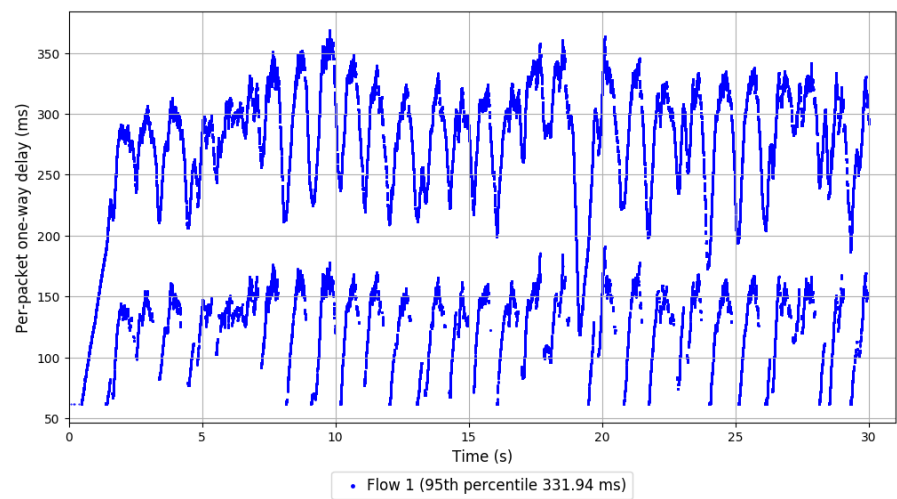
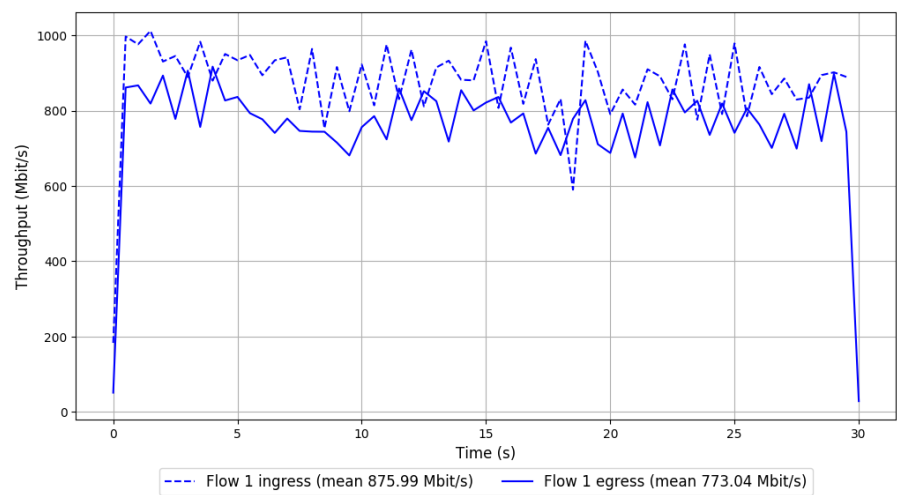
-- Flow 1:

Average throughput: 773.04 Mbit/s

95th percentile per-packet one-way delay: 331.944 ms

Loss rate: 11.75%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-02-13 14:45:34

End at: 2018-02-13 14:46:04

Below is generated by plot.py at 2018-02-13 18:17:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 841.30 Mbit/s

95th percentile per-packet one-way delay: 301.688 ms

Loss rate: 8.78%

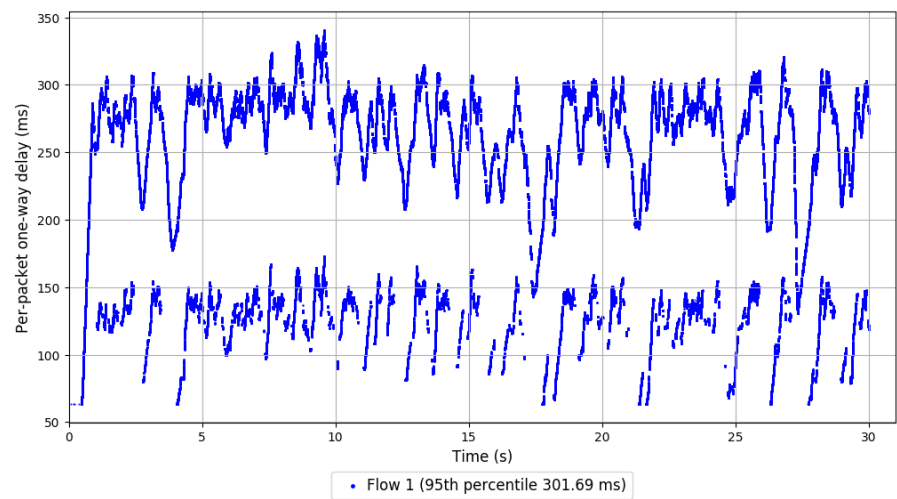
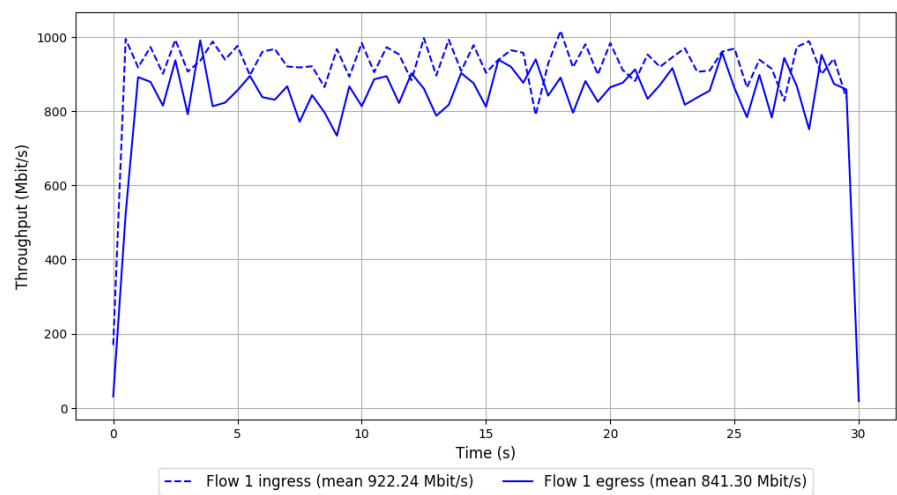
-- Flow 1:

Average throughput: 841.30 Mbit/s

95th percentile per-packet one-way delay: 301.688 ms

Loss rate: 8.78%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-02-13 15:00:16

End at: 2018-02-13 15:00:46

Below is generated by plot.py at 2018-02-13 18:17:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 800.10 Mbit/s

95th percentile per-packet one-way delay: 316.673 ms

Loss rate: 10.98%

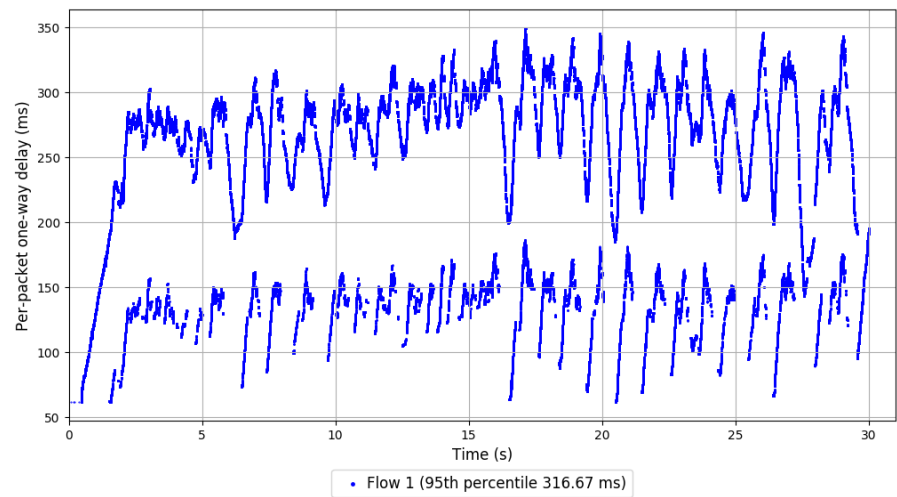
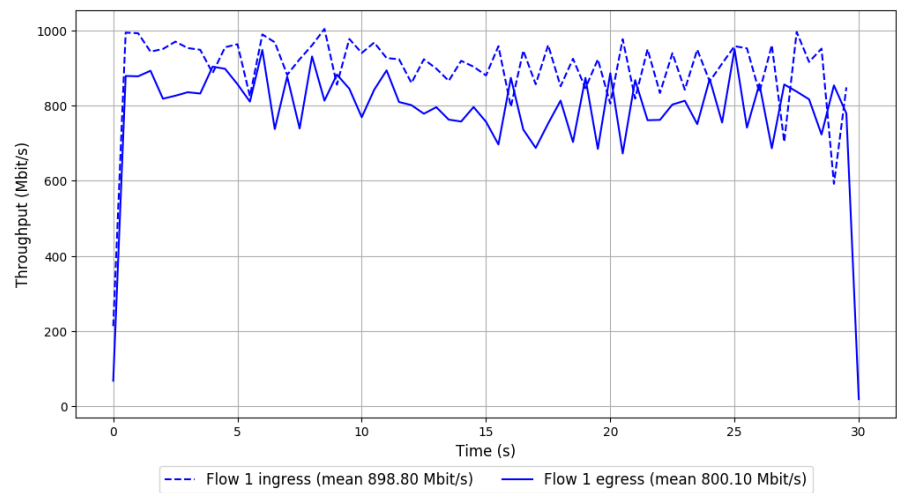
-- Flow 1:

Average throughput: 800.10 Mbit/s

95th percentile per-packet one-way delay: 316.673 ms

Loss rate: 10.98%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-02-13 15:14:57

End at: 2018-02-13 15:15:27

Below is generated by plot.py at 2018-02-13 18:17:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 834.80 Mbit/s

95th percentile per-packet one-way delay: 304.118 ms

Loss rate: 7.62%

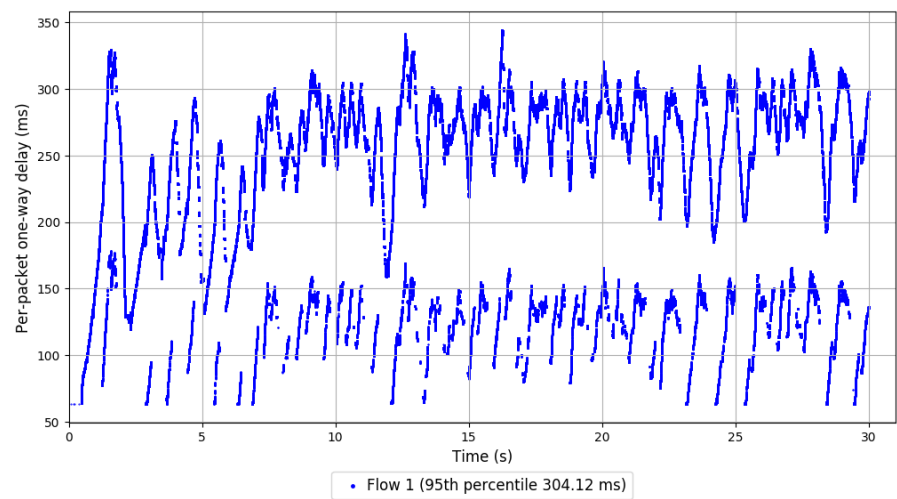
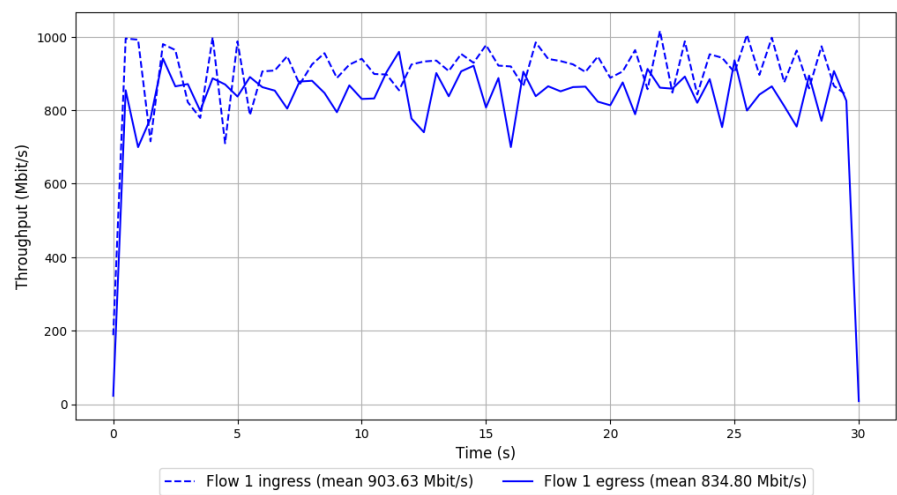
-- Flow 1:

Average throughput: 834.80 Mbit/s

95th percentile per-packet one-way delay: 304.118 ms

Loss rate: 7.62%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-02-13 15:29:58

End at: 2018-02-13 15:30:28

Below is generated by plot.py at 2018-02-13 18:18:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 828.47 Mbit/s

95th percentile per-packet one-way delay: 308.044 ms

Loss rate: 9.04%

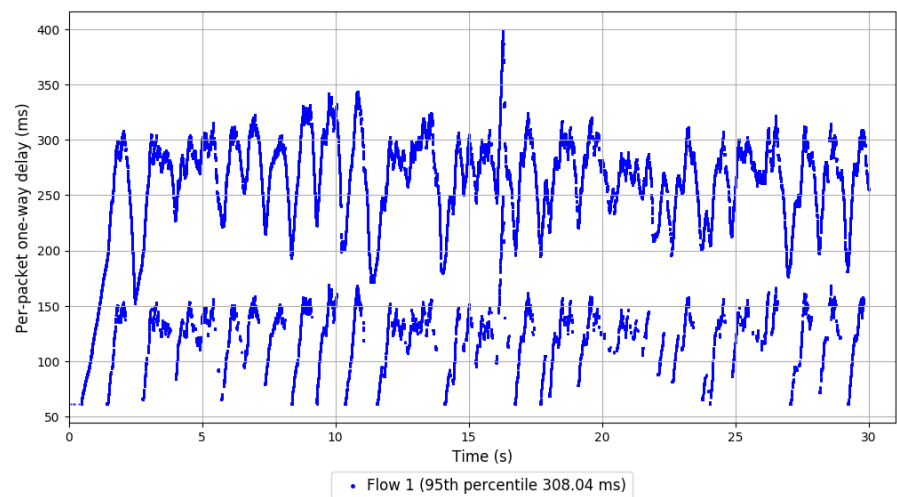
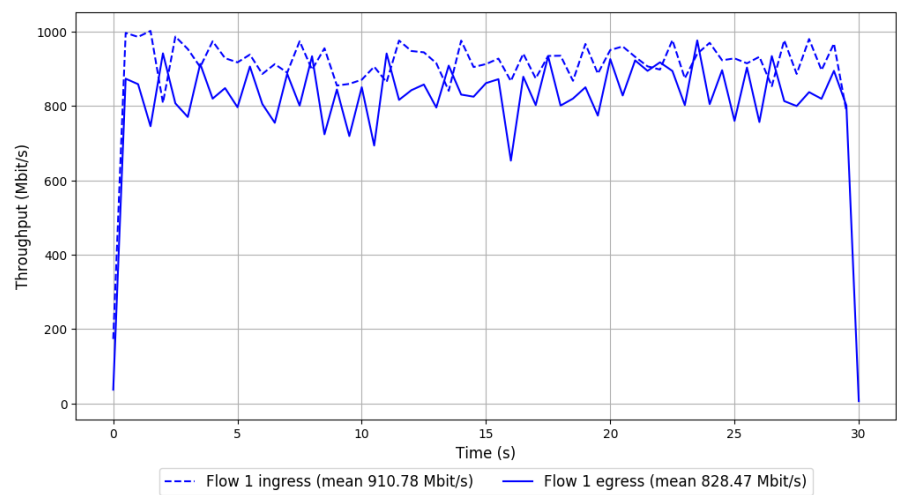
-- Flow 1:

Average throughput: 828.47 Mbit/s

95th percentile per-packet one-way delay: 308.044 ms

Loss rate: 9.04%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-02-13 15:44:56

End at: 2018-02-13 15:45:26

Below is generated by plot.py at 2018-02-13 18:30:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 847.26 Mbit/s

95th percentile per-packet one-way delay: 294.201 ms

Loss rate: 7.85%

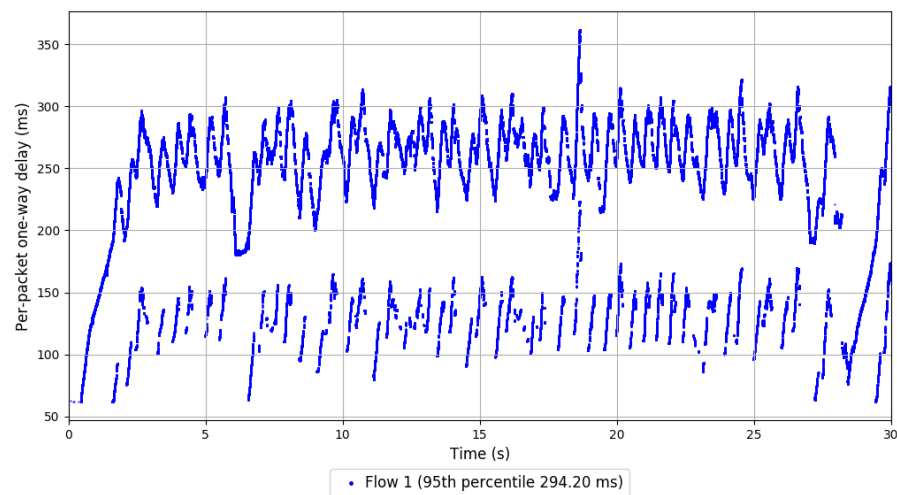
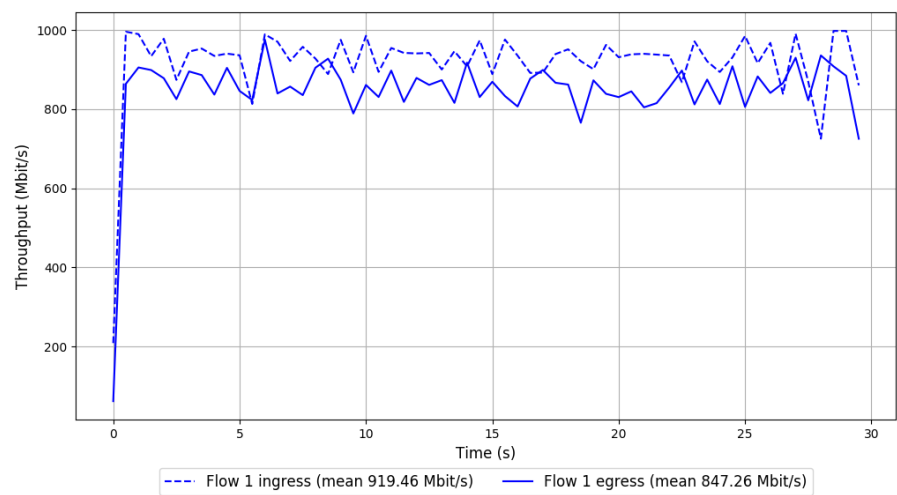
-- Flow 1:

Average throughput: 847.26 Mbit/s

95th percentile per-packet one-way delay: 294.201 ms

Loss rate: 7.85%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-02-13 15:59:53

End at: 2018-02-13 16:00:23

Below is generated by plot.py at 2018-02-13 18:30:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 833.99 Mbit/s

95th percentile per-packet one-way delay: 304.039 ms

Loss rate: 9.02%

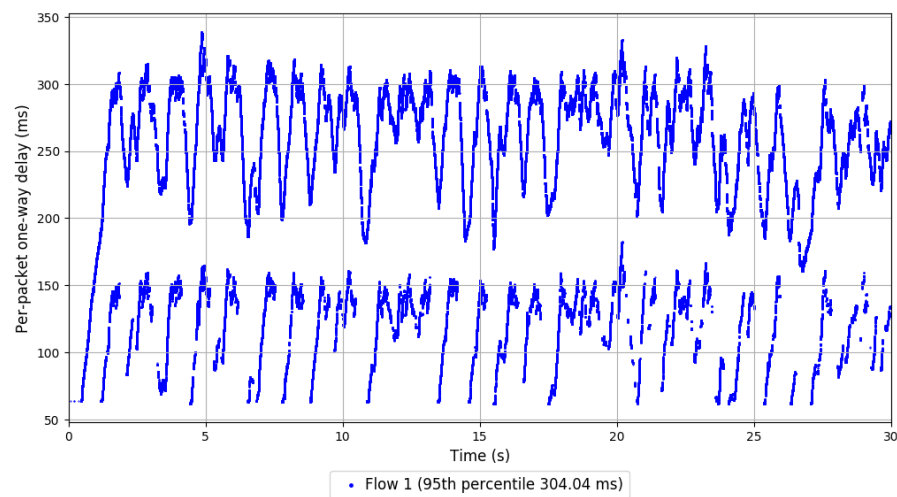
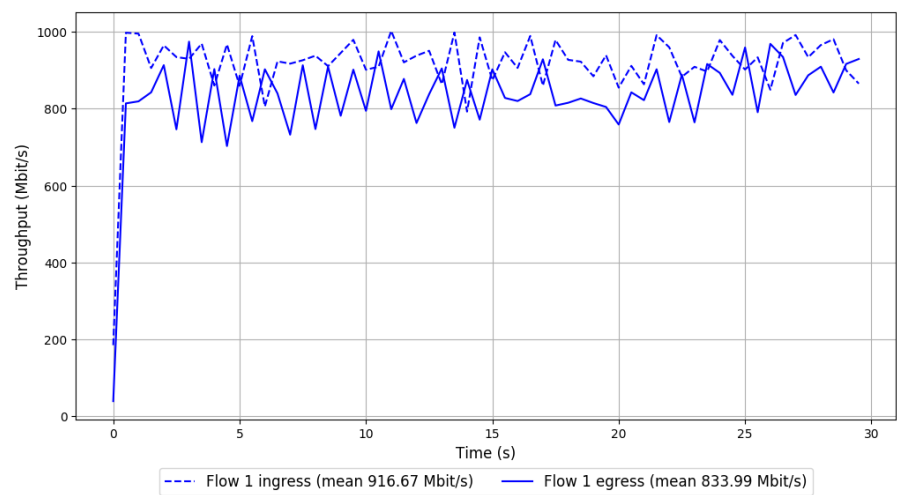
-- Flow 1:

Average throughput: 833.99 Mbit/s

95th percentile per-packet one-way delay: 304.039 ms

Loss rate: 9.02%

Run 10: Report of FillP — Data Link

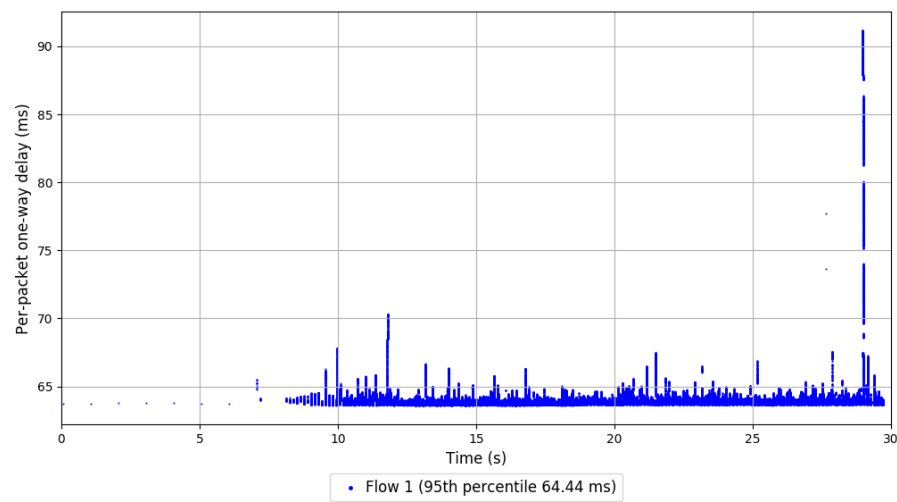
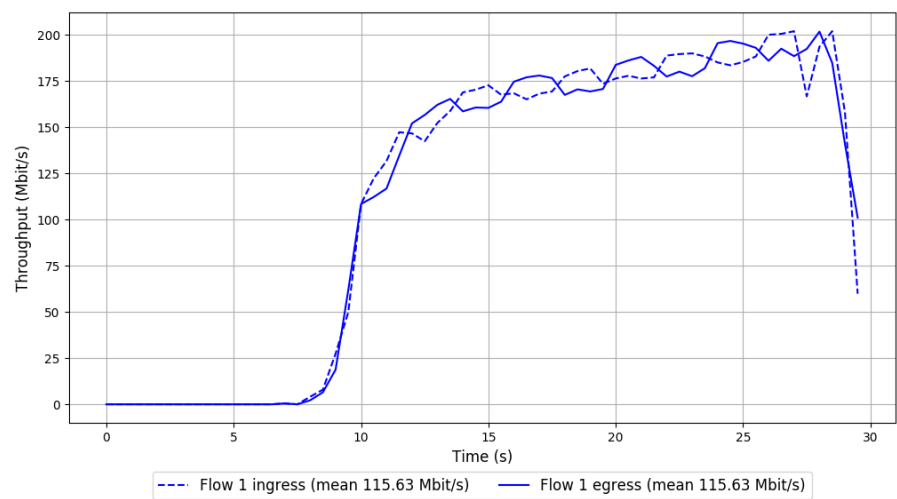


```
Run 1: Statistics of Indigo-1-32

Start at: 2018-02-13 13:42:04
End at: 2018-02-13 13:42:34

# Below is generated by plot.py at 2018-02-13 18:30:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 115.63 Mbit/s
95th percentile per-packet one-way delay: 64.437 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 115.63 Mbit/s
95th percentile per-packet one-way delay: 64.437 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo-1-32 — Data Link



Run 2: Statistics of Indigo-1-32

Start at: 2018-02-13 13:56:49

End at: 2018-02-13 13:57:19

Below is generated by plot.py at 2018-02-13 18:30:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 211.37 Mbit/s

95th percentile per-packet one-way delay: 65.475 ms

Loss rate: 0.01%

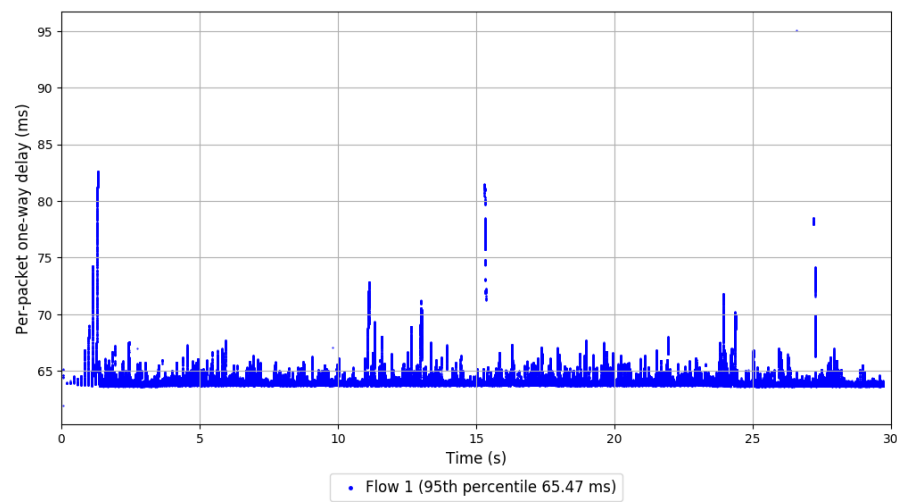
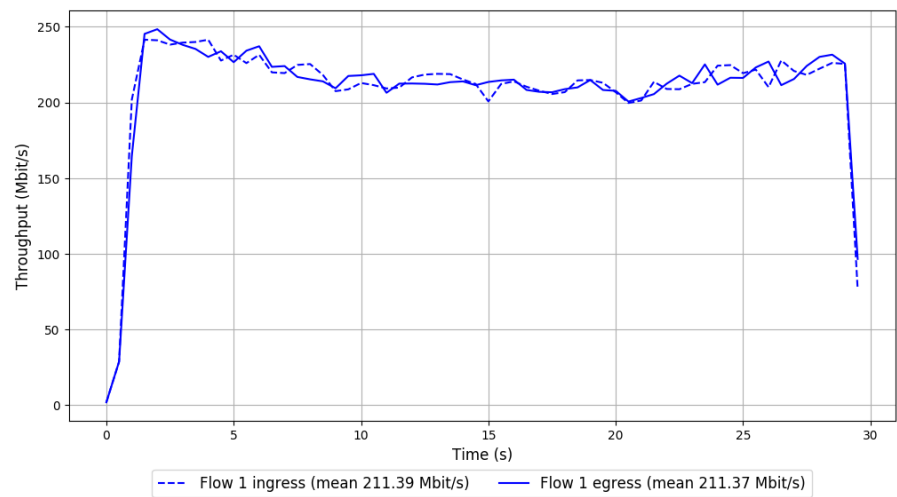
-- Flow 1:

Average throughput: 211.37 Mbit/s

95th percentile per-packet one-way delay: 65.475 ms

Loss rate: 0.01%

Run 2: Report of Indigo-1-32 — Data Link



Run 3: Statistics of Indigo-1-32

Start at: 2018-02-13 14:11:34

End at: 2018-02-13 14:12:04

Below is generated by plot.py at 2018-02-13 18:30:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 214.03 Mbit/s

95th percentile per-packet one-way delay: 64.427 ms

Loss rate: 0.00%

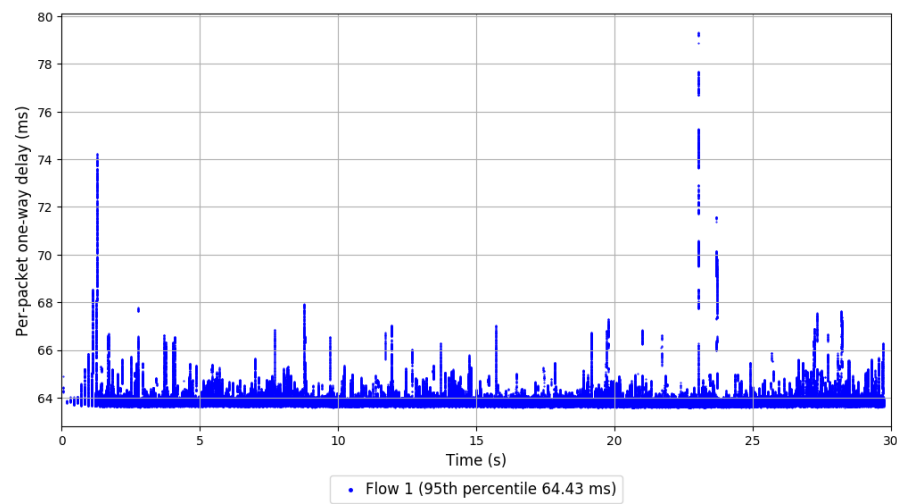
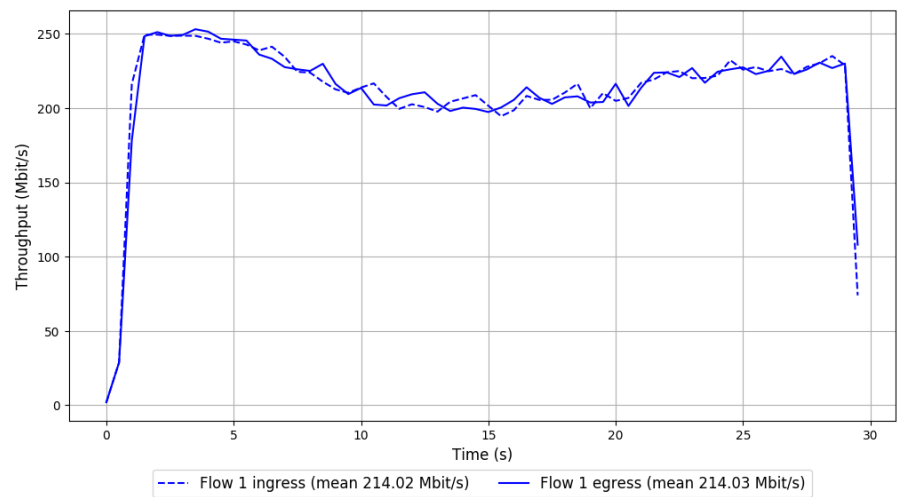
-- Flow 1:

Average throughput: 214.03 Mbit/s

95th percentile per-packet one-way delay: 64.427 ms

Loss rate: 0.00%

Run 3: Report of Indigo-1-32 — Data Link



Run 4: Statistics of Indigo-1-32

Start at: 2018-02-13 14:26:12

End at: 2018-02-13 14:26:42

Below is generated by plot.py at 2018-02-13 18:30:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 224.96 Mbit/s

95th percentile per-packet one-way delay: 64.890 ms

Loss rate: 0.00%

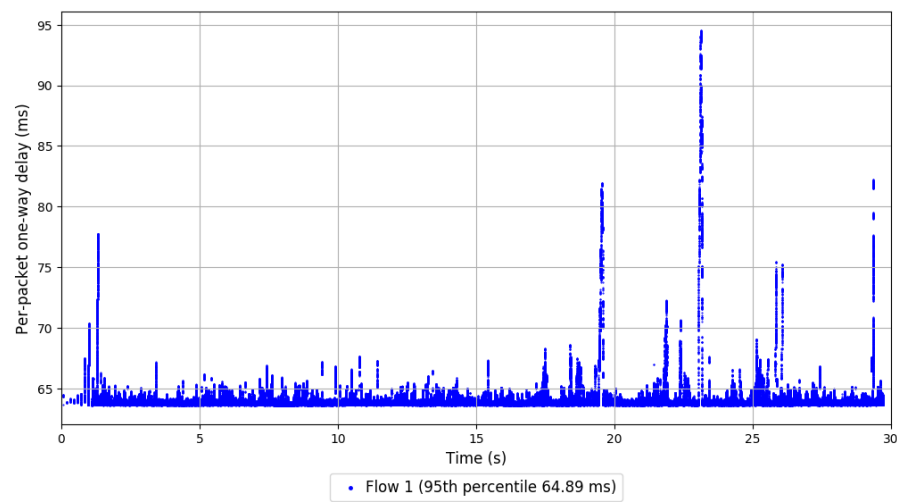
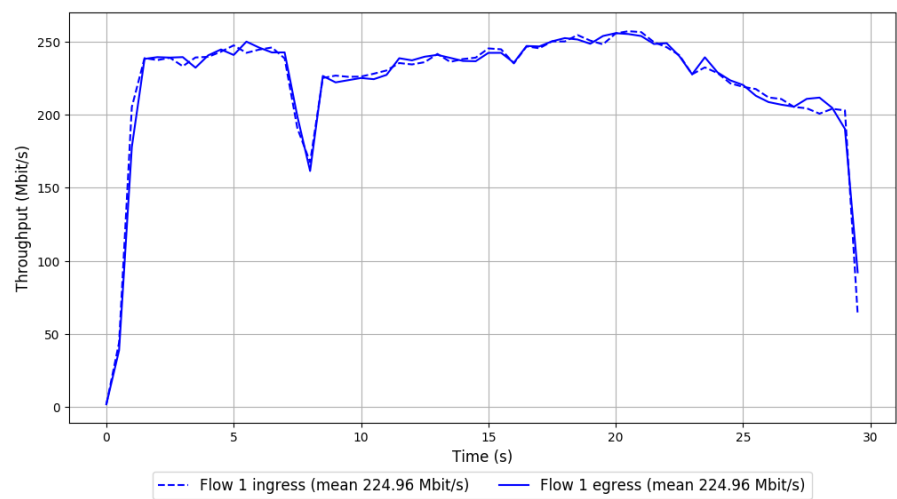
-- Flow 1:

Average throughput: 224.96 Mbit/s

95th percentile per-packet one-way delay: 64.890 ms

Loss rate: 0.00%

Run 4: Report of Indigo-1-32 — Data Link



Run 5: Statistics of Indigo-1-32

Start at: 2018-02-13 14:41:01

End at: 2018-02-13 14:41:31

Below is generated by plot.py at 2018-02-13 18:30:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 210.87 Mbit/s

95th percentile per-packet one-way delay: 65.215 ms

Loss rate: 0.00%

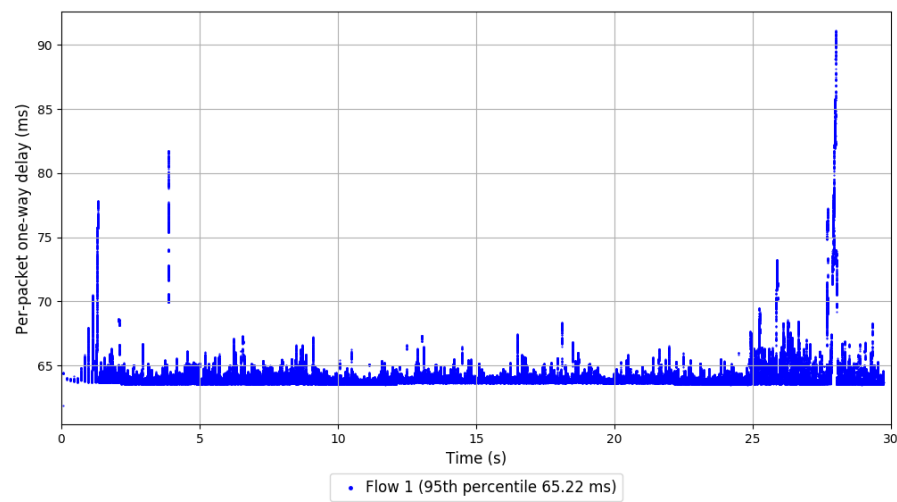
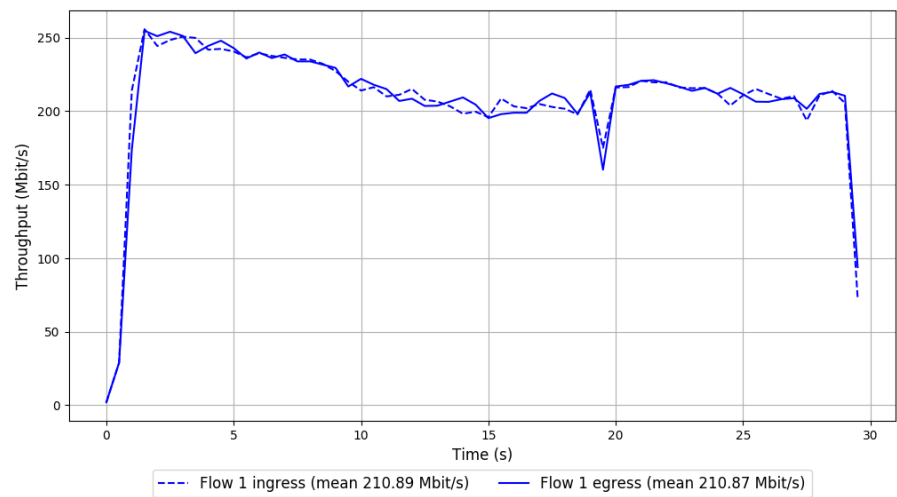
-- Flow 1:

Average throughput: 210.87 Mbit/s

95th percentile per-packet one-way delay: 65.215 ms

Loss rate: 0.00%

Run 5: Report of Indigo-1-32 — Data Link



Run 6: Statistics of Indigo-1-32

Start at: 2018-02-13 14:55:46

End at: 2018-02-13 14:56:16

Below is generated by plot.py at 2018-02-13 18:30:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 216.42 Mbit/s

95th percentile per-packet one-way delay: 65.501 ms

Loss rate: 0.00%

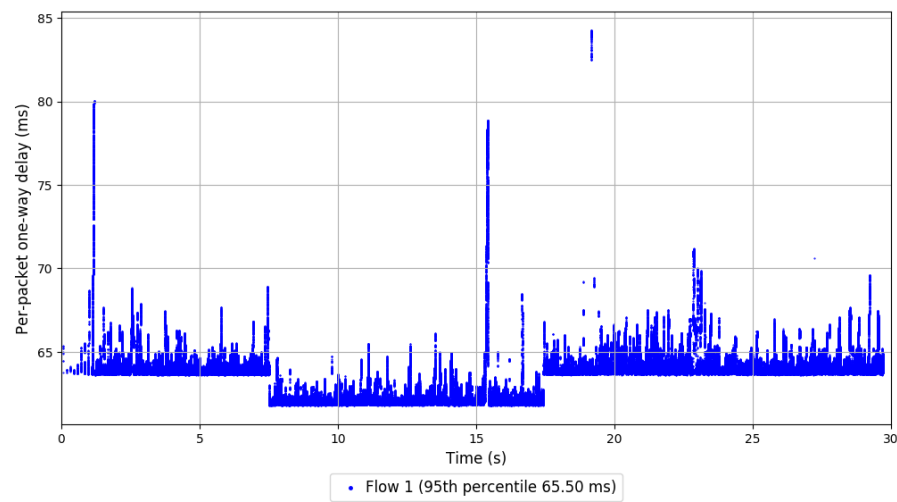
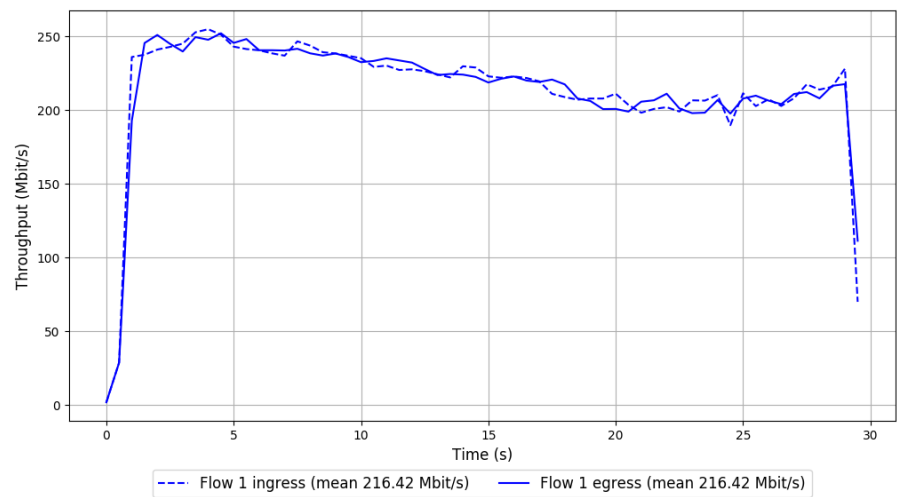
-- Flow 1:

Average throughput: 216.42 Mbit/s

95th percentile per-packet one-way delay: 65.501 ms

Loss rate: 0.00%

Run 6: Report of Indigo-1-32 — Data Link



Run 7: Statistics of Indigo-1-32

Start at: 2018-02-13 15:10:31

End at: 2018-02-13 15:11:01

Below is generated by plot.py at 2018-02-13 18:30:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 134.02 Mbit/s

95th percentile per-packet one-way delay: 64.459 ms

Loss rate: 0.00%

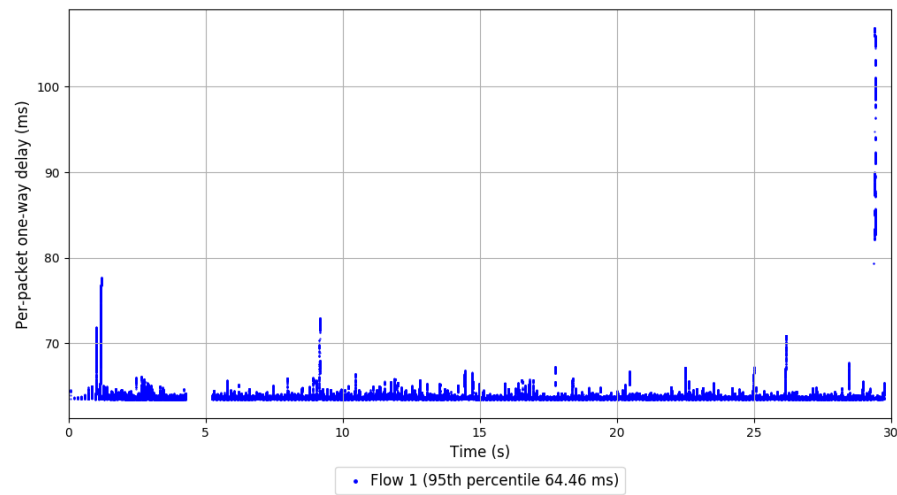
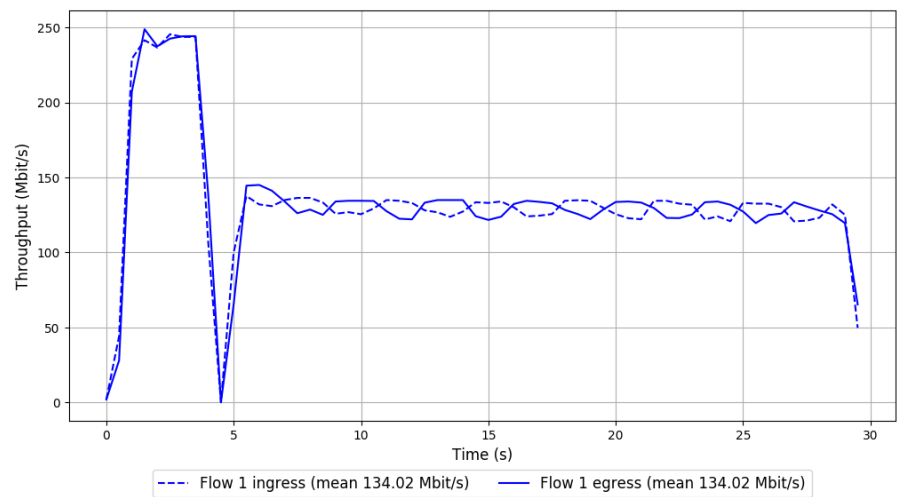
-- Flow 1:

Average throughput: 134.02 Mbit/s

95th percentile per-packet one-way delay: 64.459 ms

Loss rate: 0.00%

Run 7: Report of Indigo-1-32 — Data Link



Run 8: Statistics of Indigo-1-32

Start at: 2018-02-13 15:25:23

End at: 2018-02-13 15:25:53

Below is generated by plot.py at 2018-02-13 18:30:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 213.28 Mbit/s

95th percentile per-packet one-way delay: 64.178 ms

Loss rate: 0.03%

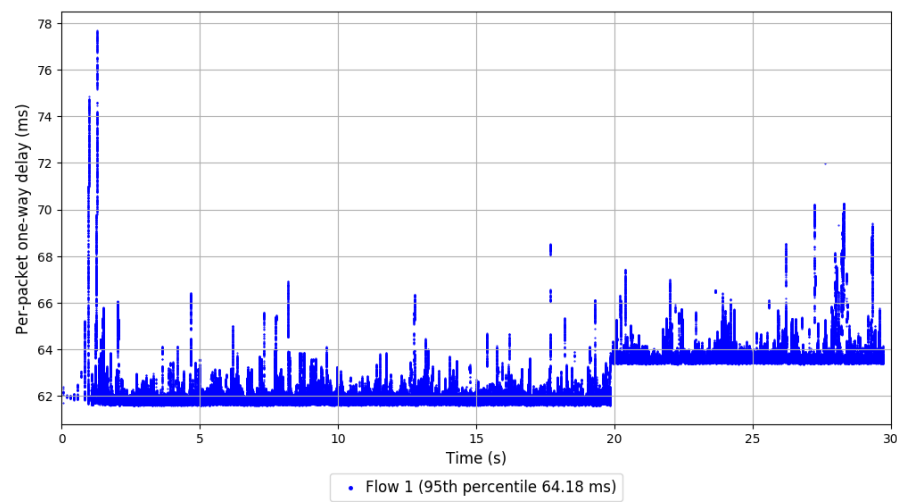
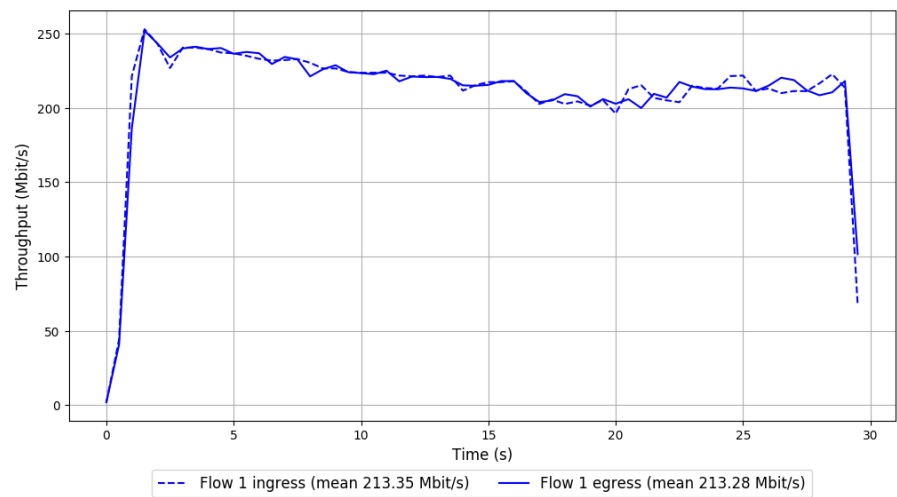
-- Flow 1:

Average throughput: 213.28 Mbit/s

95th percentile per-packet one-way delay: 64.178 ms

Loss rate: 0.03%

Run 8: Report of Indigo-1-32 — Data Link



Run 9: Statistics of Indigo-1-32

Start at: 2018-02-13 15:40:24

End at: 2018-02-13 15:40:54

Below is generated by plot.py at 2018-02-13 18:30:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 217.67 Mbit/s

95th percentile per-packet one-way delay: 64.277 ms

Loss rate: 0.00%

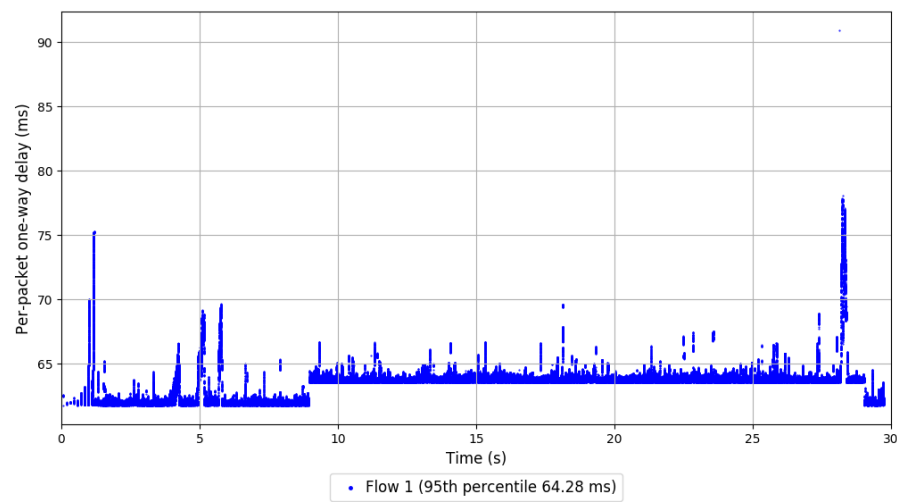
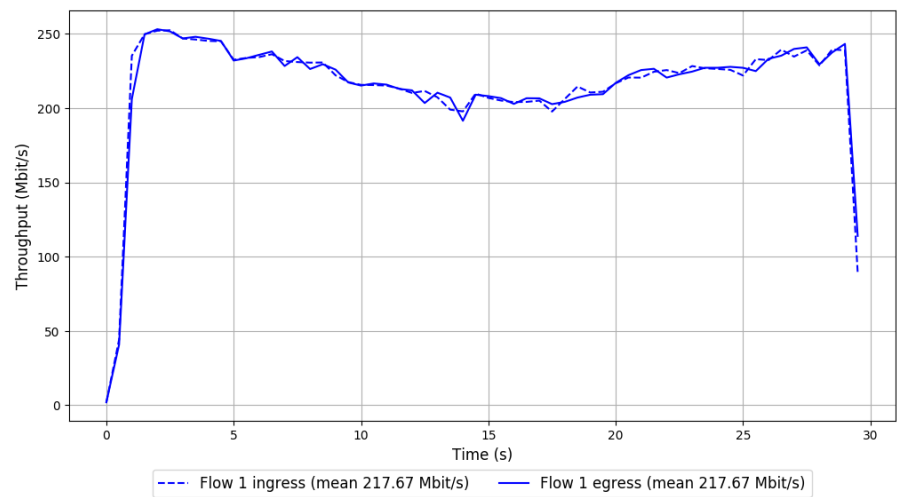
-- Flow 1:

Average throughput: 217.67 Mbit/s

95th percentile per-packet one-way delay: 64.277 ms

Loss rate: 0.00%

Run 9: Report of Indigo-1-32 — Data Link



Run 10: Statistics of Indigo-1-32

Start at: 2018-02-13 15:55:17

End at: 2018-02-13 15:55:47

Below is generated by plot.py at 2018-02-13 18:30:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 209.60 Mbit/s

95th percentile per-packet one-way delay: 64.659 ms

Loss rate: 0.00%

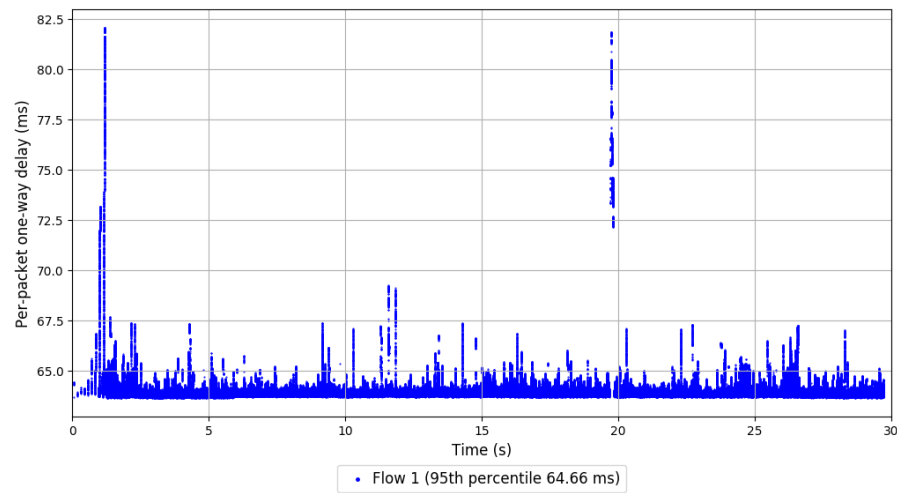
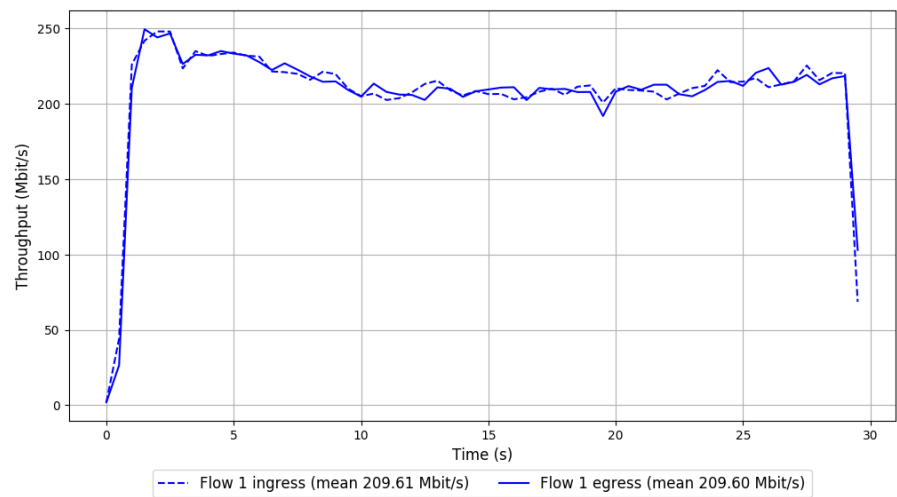
-- Flow 1:

Average throughput: 209.60 Mbit/s

95th percentile per-packet one-way delay: 64.659 ms

Loss rate: 0.00%

Run 10: Report of Indigo-1-32 — Data Link



Run 1: Statistics of Vivace-latency

Start at: 2018-02-13 13:34:54

End at: 2018-02-13 13:35:24

Below is generated by plot.py at 2018-02-13 18:30:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 389.41 Mbit/s

95th percentile per-packet one-way delay: 115.258 ms

Loss rate: 0.03%

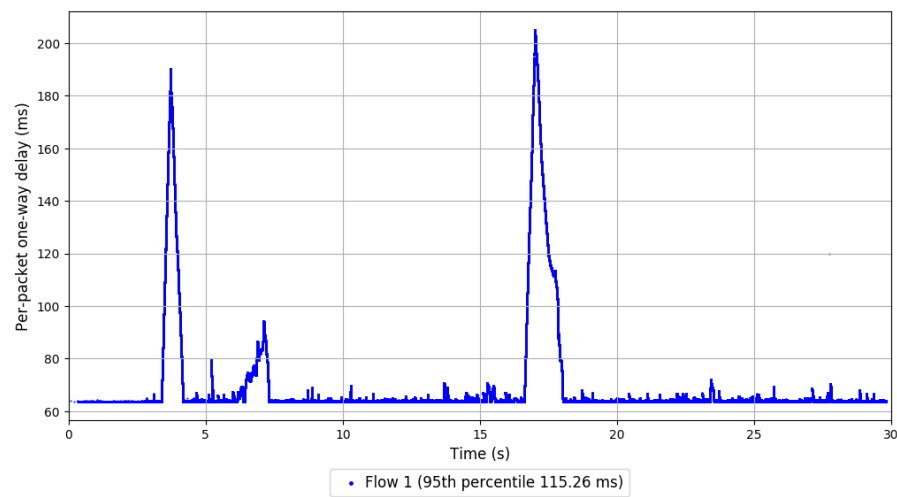
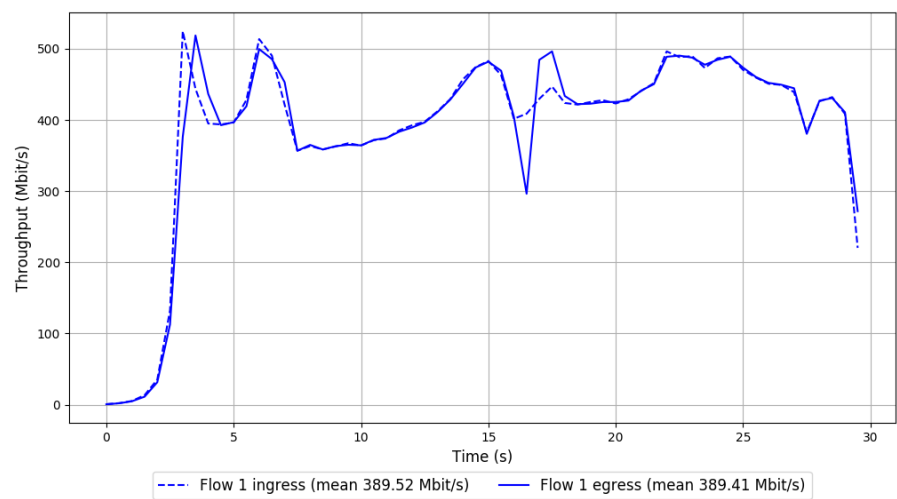
-- Flow 1:

Average throughput: 389.41 Mbit/s

95th percentile per-packet one-way delay: 115.258 ms

Loss rate: 0.03%

Run 1: Report of Vivace-latency — Data Link



Run 2: Statistics of Vivace-latency

Start at: 2018-02-13 13:49:32

End at: 2018-02-13 13:50:02

Below is generated by plot.py at 2018-02-13 18:30:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 437.12 Mbit/s

95th percentile per-packet one-way delay: 78.760 ms

Loss rate: 0.00%

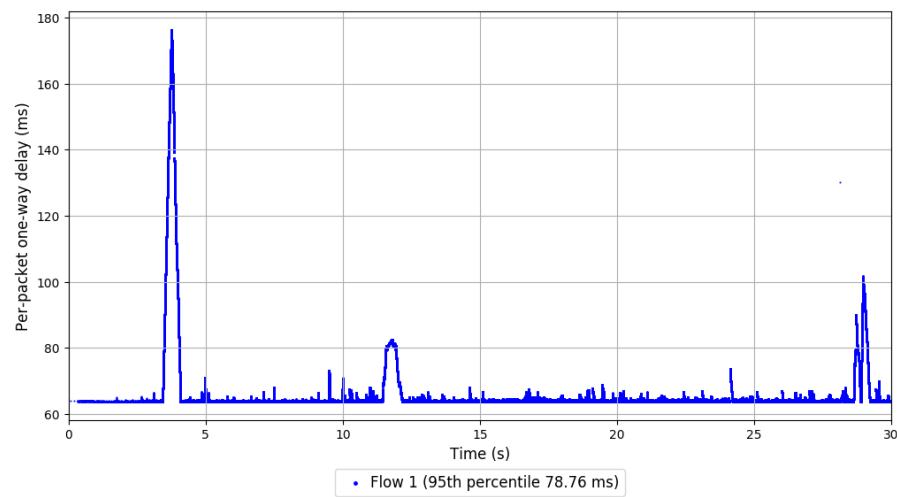
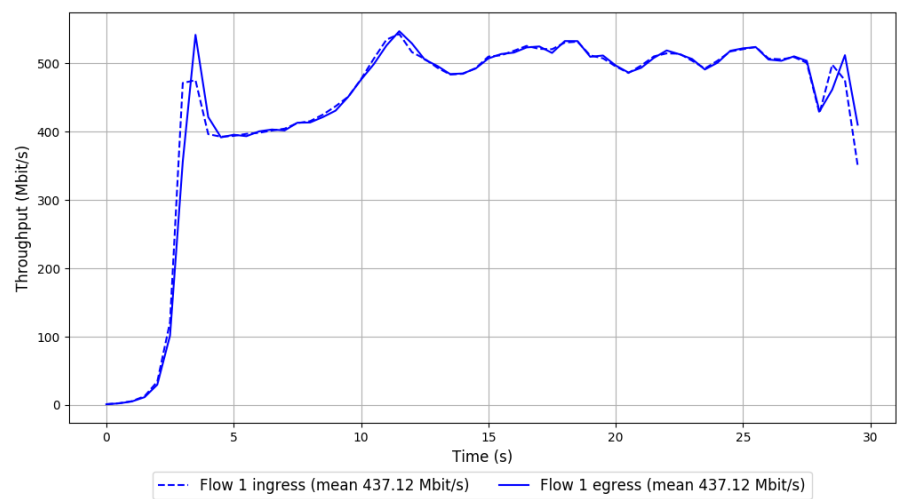
-- Flow 1:

Average throughput: 437.12 Mbit/s

95th percentile per-packet one-way delay: 78.760 ms

Loss rate: 0.00%

Run 2: Report of Vivace-latency — Data Link



Run 3: Statistics of Vivace-latency

Start at: 2018-02-13 14:04:19

End at: 2018-02-13 14:04:49

Below is generated by plot.py at 2018-02-13 18:30:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 398.28 Mbit/s

95th percentile per-packet one-way delay: 69.702 ms

Loss rate: 0.00%

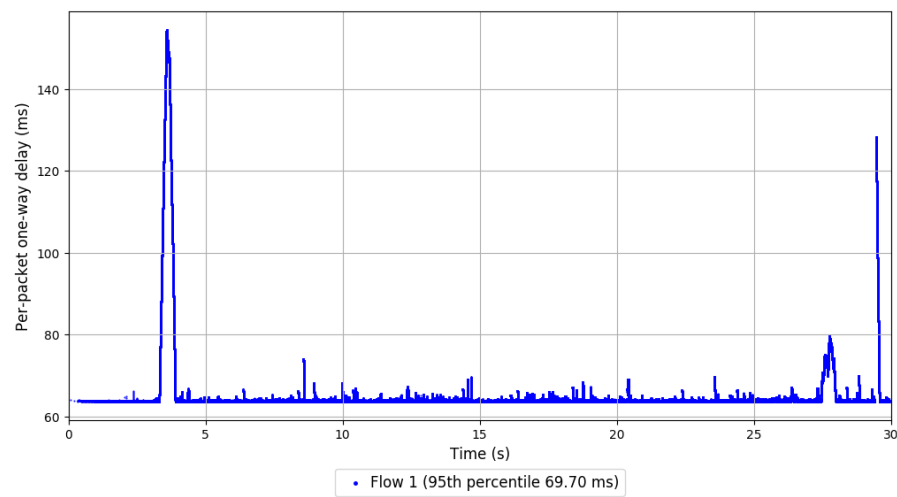
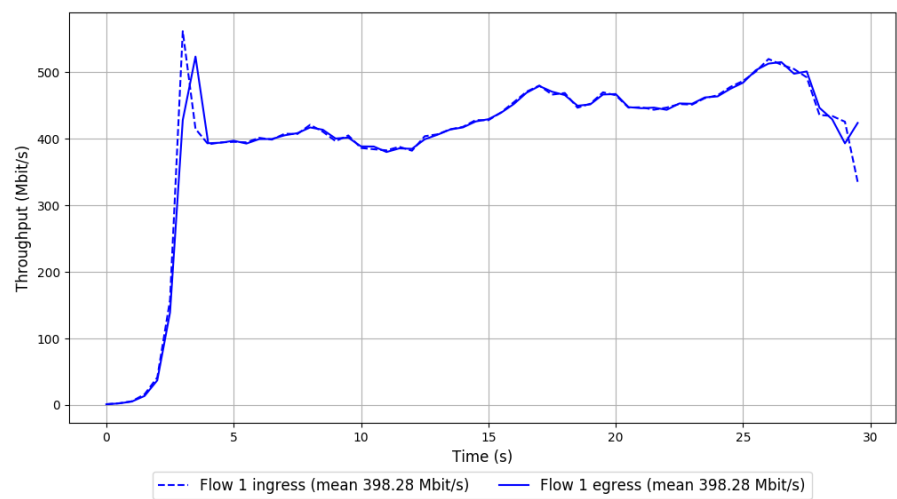
-- Flow 1:

Average throughput: 398.28 Mbit/s

95th percentile per-packet one-way delay: 69.702 ms

Loss rate: 0.00%

Run 3: Report of Vivace-latency — Data Link



Run 4: Statistics of Vivace-latency

Start at: 2018-02-13 14:19:07

End at: 2018-02-13 14:19:37

Below is generated by plot.py at 2018-02-13 18:30:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 321.16 Mbit/s

95th percentile per-packet one-way delay: 64.380 ms

Loss rate: 0.00%

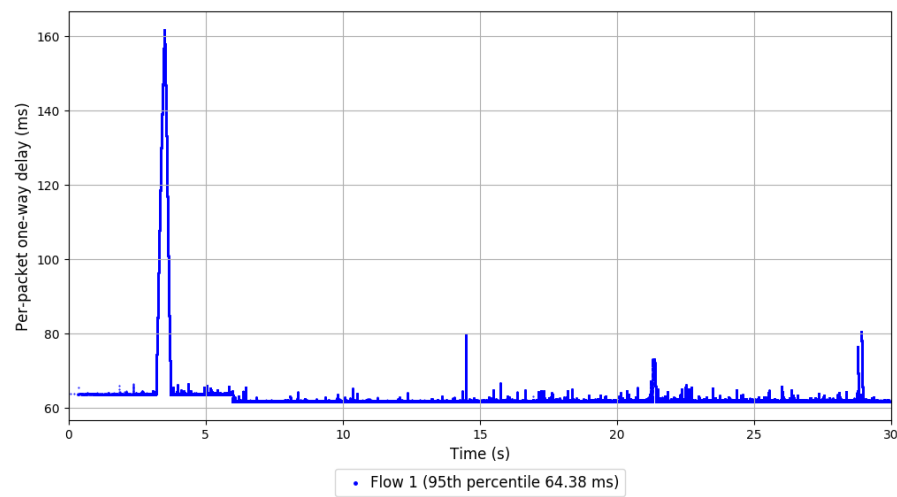
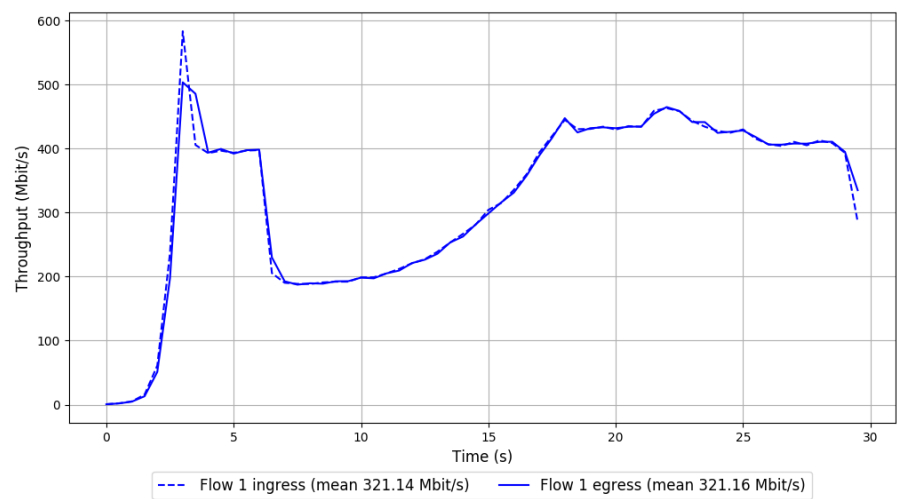
-- Flow 1:

Average throughput: 321.16 Mbit/s

95th percentile per-packet one-way delay: 64.380 ms

Loss rate: 0.00%

Run 4: Report of Vivace-latency — Data Link



Run 5: Statistics of Vivace-latency

Start at: 2018-02-13 14:33:46

End at: 2018-02-13 14:34:16

Below is generated by plot.py at 2018-02-13 18:30:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 434.08 Mbit/s

95th percentile per-packet one-way delay: 81.837 ms

Loss rate: 0.00%

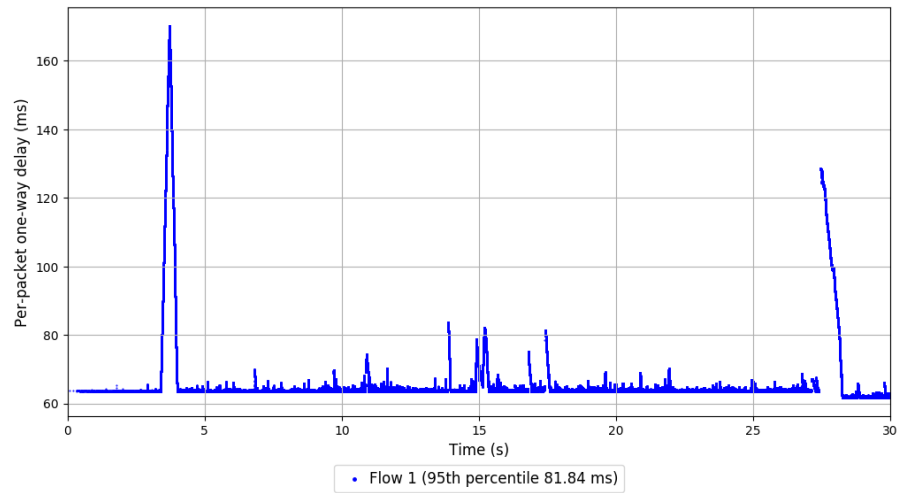
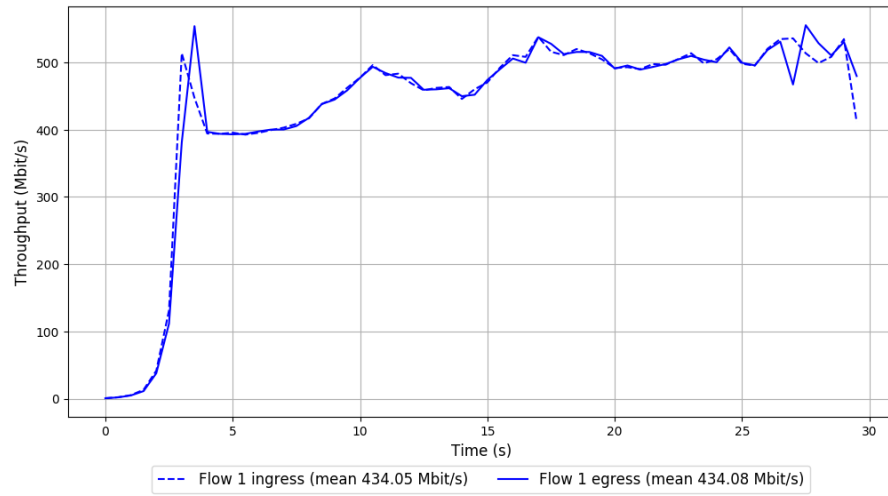
-- Flow 1:

Average throughput: 434.08 Mbit/s

95th percentile per-packet one-way delay: 81.837 ms

Loss rate: 0.00%

Run 5: Report of Vivace-latency — Data Link



Run 6: Statistics of Vivace-latency

Start at: 2018-02-13 14:48:41

End at: 2018-02-13 14:49:11

Below is generated by plot.py at 2018-02-13 18:30:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 384.39 Mbit/s

95th percentile per-packet one-way delay: 79.643 ms

Loss rate: 0.00%

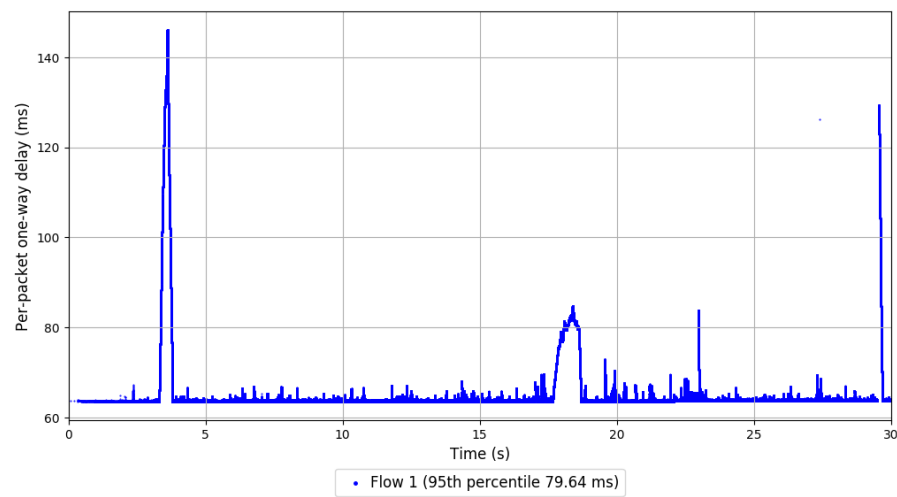
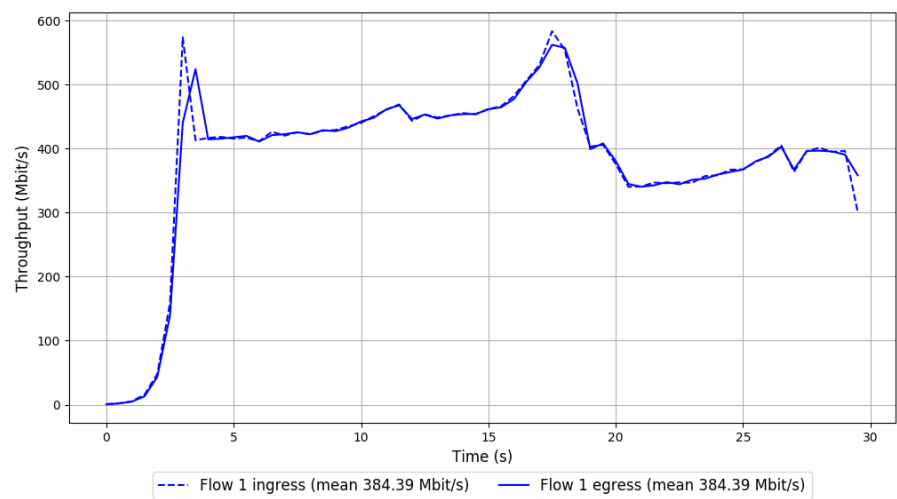
-- Flow 1:

Average throughput: 384.39 Mbit/s

95th percentile per-packet one-way delay: 79.643 ms

Loss rate: 0.00%

Run 6: Report of Vivace-latency — Data Link



Run 7: Statistics of Vivace-latency

Start at: 2018-02-13 15:03:20

End at: 2018-02-13 15:03:50

Below is generated by plot.py at 2018-02-13 18:33:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 407.08 Mbit/s

95th percentile per-packet one-way delay: 143.038 ms

Loss rate: 0.75%

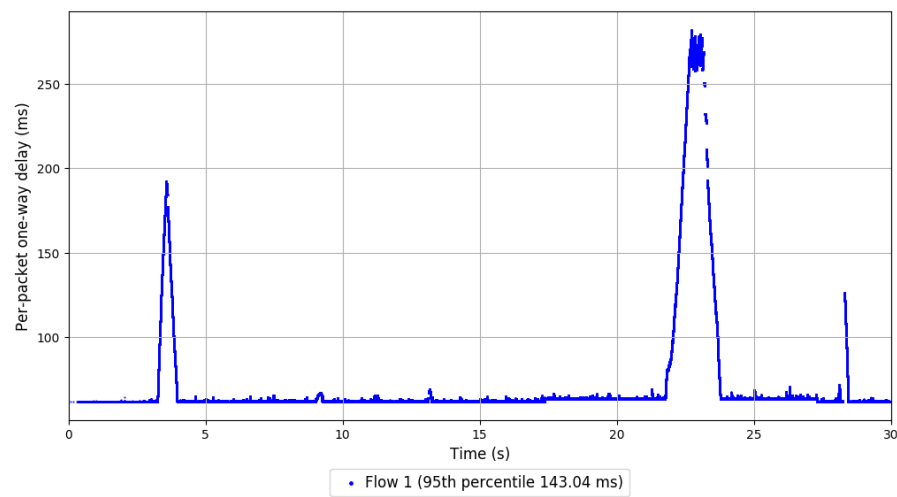
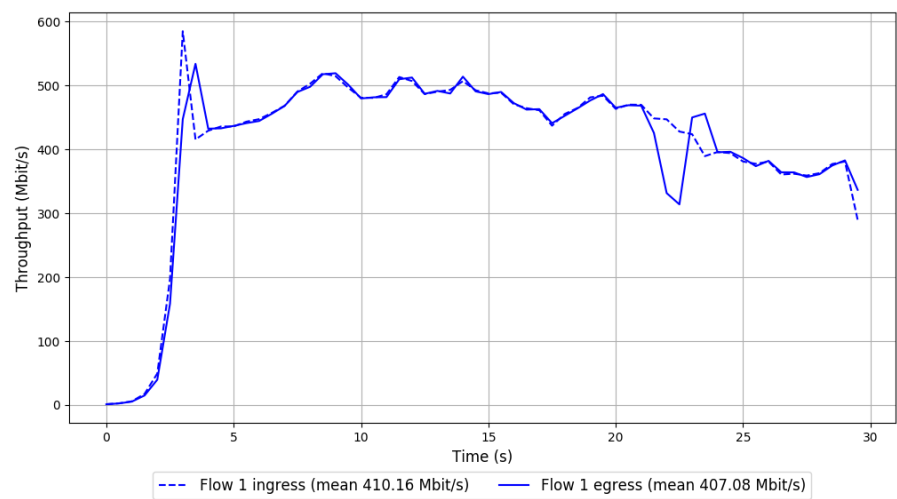
-- Flow 1:

Average throughput: 407.08 Mbit/s

95th percentile per-packet one-way delay: 143.038 ms

Loss rate: 0.75%

Run 7: Report of Vivace-latency — Data Link



Run 8: Statistics of Vivace-latency

Start at: 2018-02-13 15:18:03

End at: 2018-02-13 15:18:33

Below is generated by plot.py at 2018-02-13 18:35:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 453.06 Mbit/s

95th percentile per-packet one-way delay: 64.221 ms

Loss rate: 0.03%

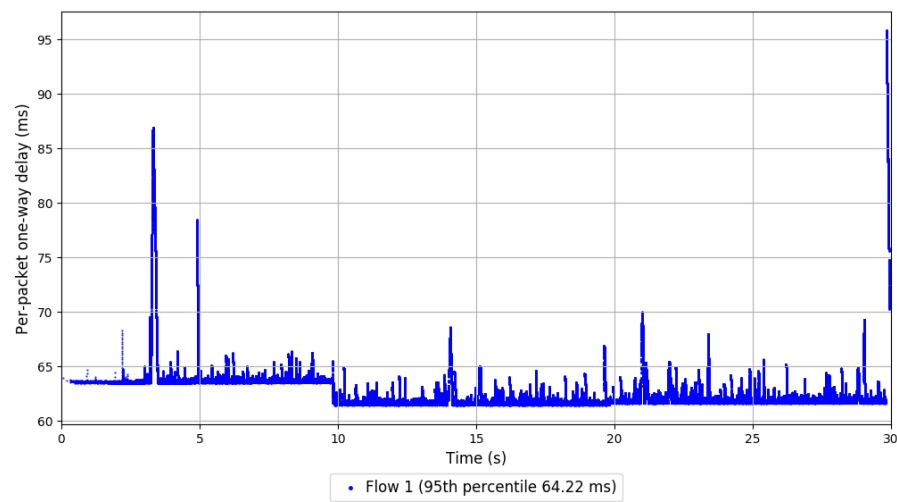
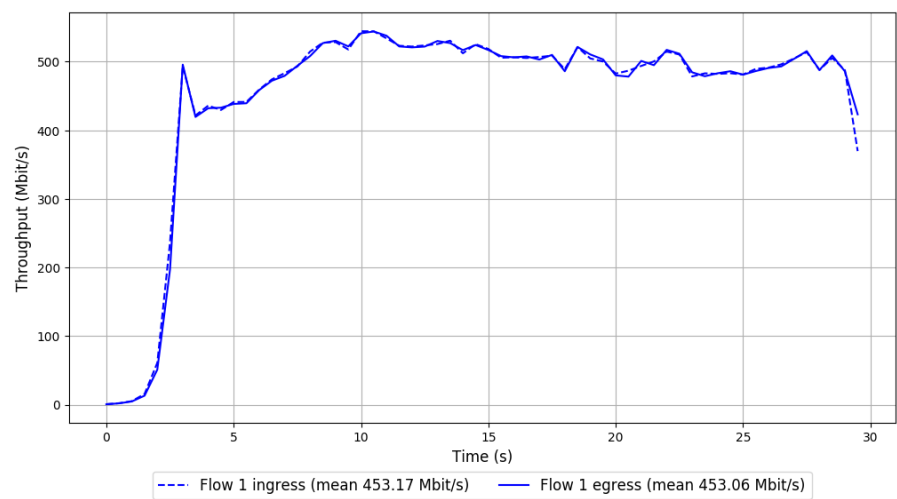
-- Flow 1:

Average throughput: 453.06 Mbit/s

95th percentile per-packet one-way delay: 64.221 ms

Loss rate: 0.03%

Run 8: Report of Vivace-latency — Data Link



Run 9: Statistics of Vivace-latency

Start at: 2018-02-13 15:33:05

End at: 2018-02-13 15:33:35

Below is generated by plot.py at 2018-02-13 18:35:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 410.11 Mbit/s

95th percentile per-packet one-way delay: 64.336 ms

Loss rate: 0.00%

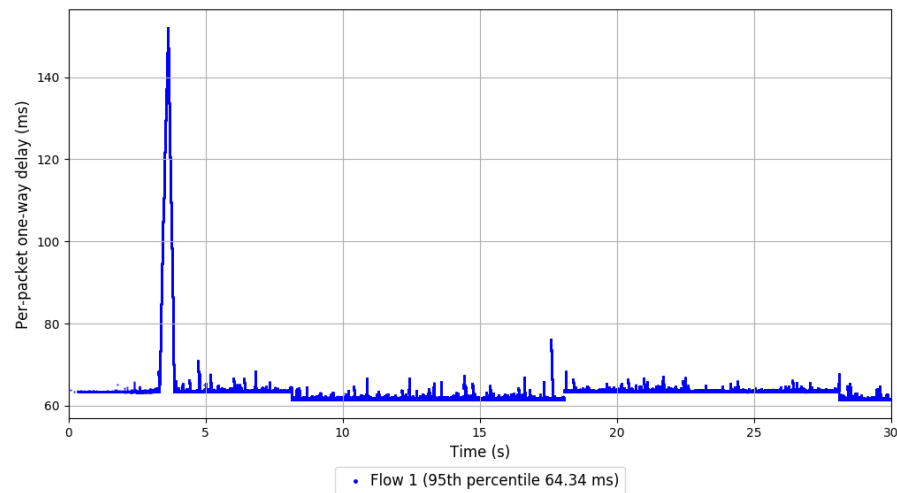
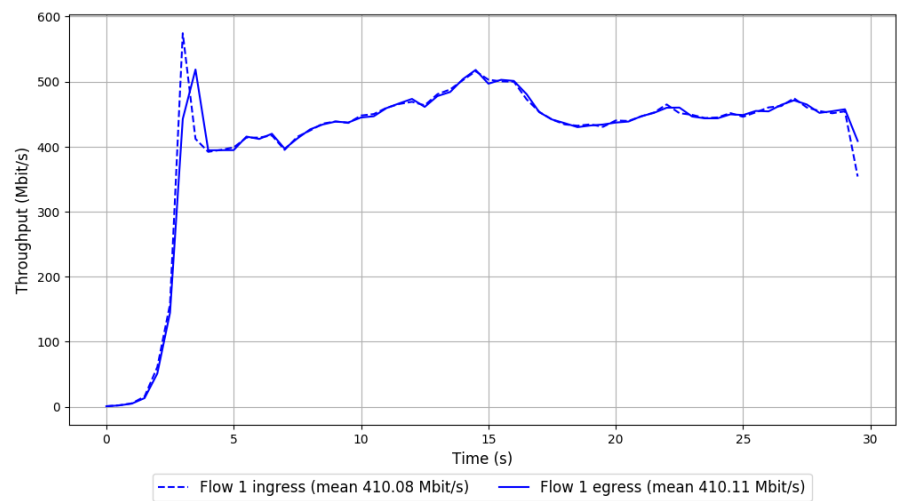
-- Flow 1:

Average throughput: 410.11 Mbit/s

95th percentile per-packet one-way delay: 64.336 ms

Loss rate: 0.00%

Run 9: Report of Vivace-latency — Data Link



Run 10: Statistics of Vivace-latency

Start at: 2018-02-13 15:48:01

End at: 2018-02-13 15:48:32

Below is generated by plot.py at 2018-02-13 18:35:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 424.52 Mbit/s

95th percentile per-packet one-way delay: 92.175 ms

Loss rate: 0.00%

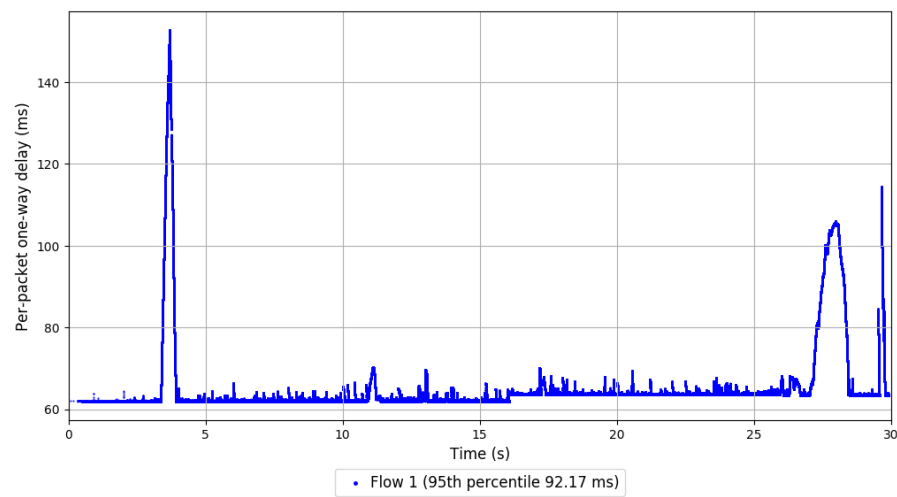
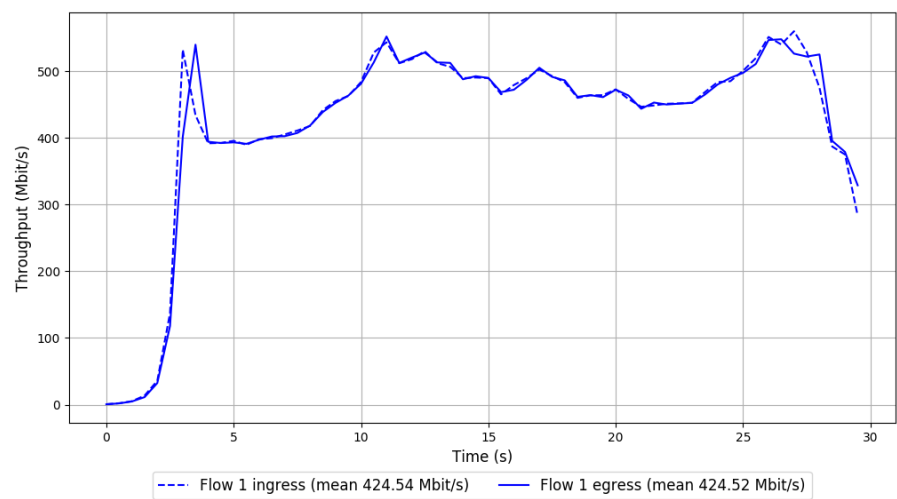
-- Flow 1:

Average throughput: 424.52 Mbit/s

95th percentile per-packet one-way delay: 92.175 ms

Loss rate: 0.00%

Run 10: Report of Vivace-latency — Data Link

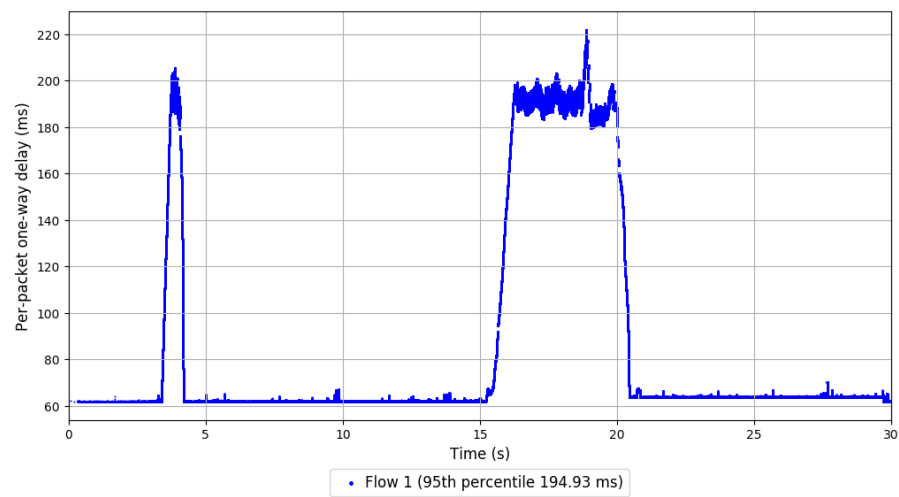
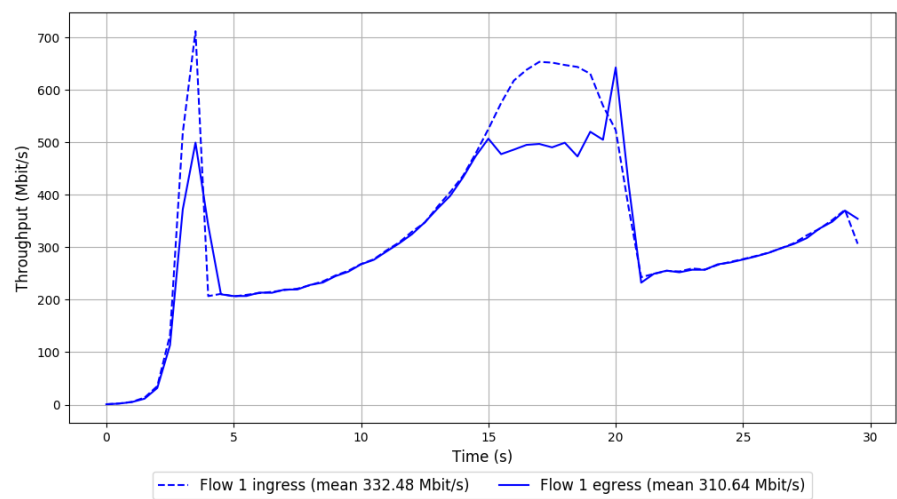


```
Run 1: Statistics of Vivace-loss

Start at: 2018-02-13 13:43:38
End at: 2018-02-13 13:44:08

# Below is generated by plot.py at 2018-02-13 18:35:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 310.64 Mbit/s
95th percentile per-packet one-way delay: 194.929 ms
Loss rate: 6.57%
-- Flow 1:
Average throughput: 310.64 Mbit/s
95th percentile per-packet one-way delay: 194.929 ms
Loss rate: 6.57%
```

Run 1: Report of Vivace-loss — Data Link



Run 2: Statistics of Vivace-loss

Start at: 2018-02-13 13:58:28

End at: 2018-02-13 13:58:58

Below is generated by plot.py at 2018-02-13 18:36:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 326.13 Mbit/s

95th percentile per-packet one-way delay: 190.841 ms

Loss rate: 5.81%

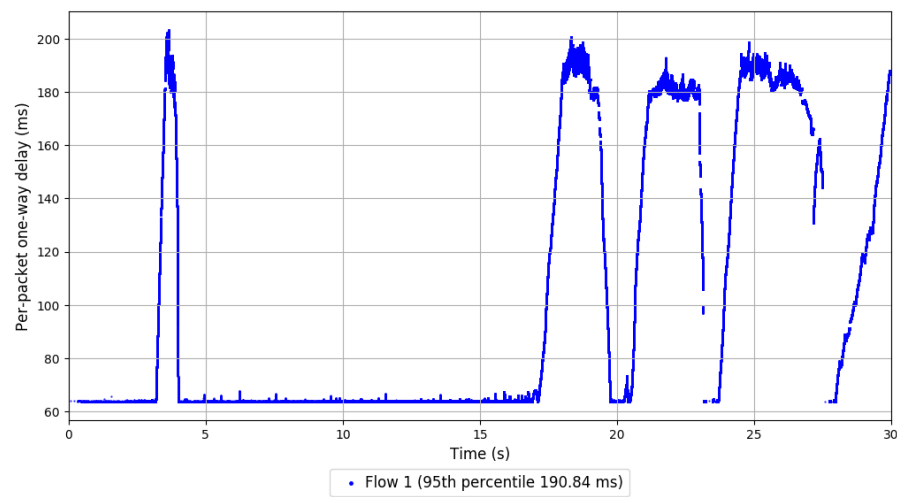
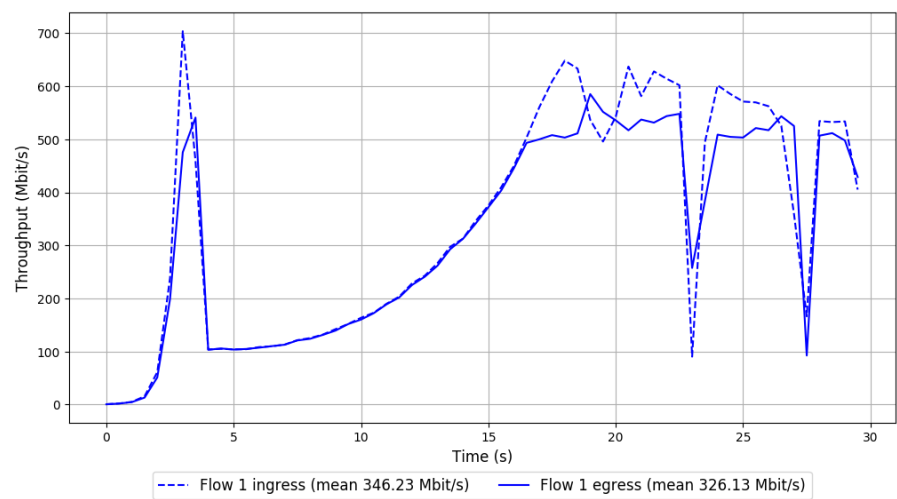
-- Flow 1:

Average throughput: 326.13 Mbit/s

95th percentile per-packet one-way delay: 190.841 ms

Loss rate: 5.81%

Run 2: Report of Vivace-loss — Data Link



Run 3: Statistics of Vivace-loss

Start at: 2018-02-13 14:13:12

End at: 2018-02-13 14:13:42

Below is generated by plot.py at 2018-02-13 18:37:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 447.02 Mbit/s

95th percentile per-packet one-way delay: 191.270 ms

Loss rate: 3.83%

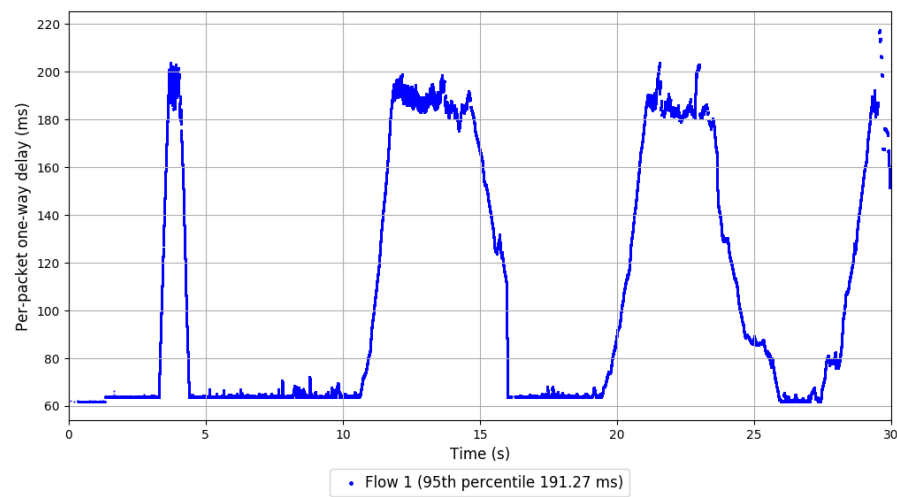
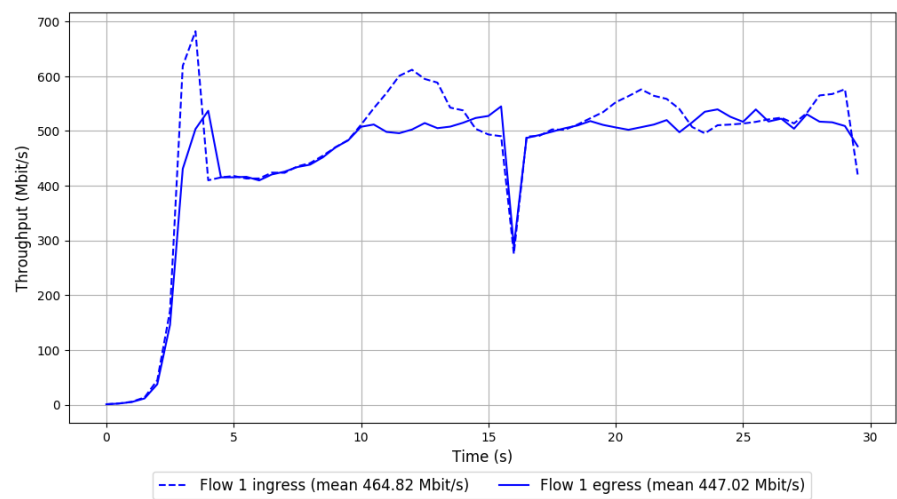
-- Flow 1:

Average throughput: 447.02 Mbit/s

95th percentile per-packet one-way delay: 191.270 ms

Loss rate: 3.83%

Run 3: Report of Vivace-loss — Data Link



Run 4: Statistics of Vivace-loss

Start at: 2018-02-13 14:27:51

End at: 2018-02-13 14:28:21

Below is generated by plot.py at 2018-02-13 18:37:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 366.51 Mbit/s

95th percentile per-packet one-way delay: 177.748 ms

Loss rate: 1.98%

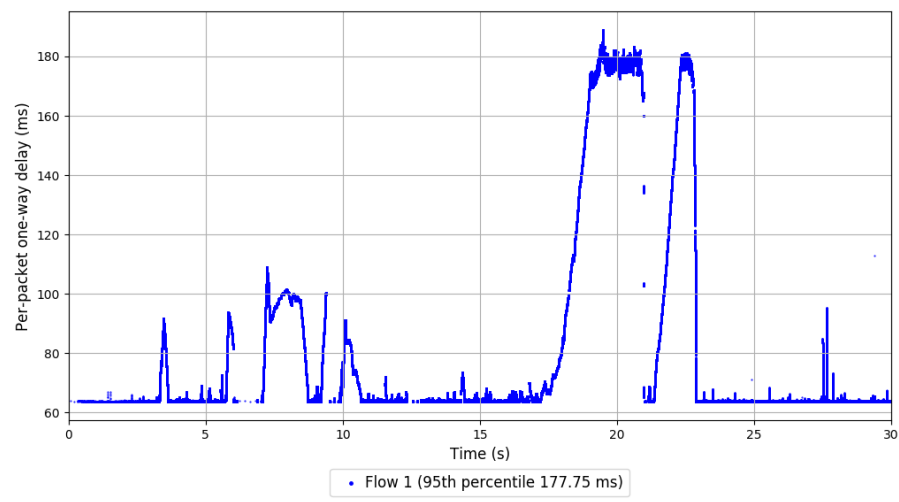
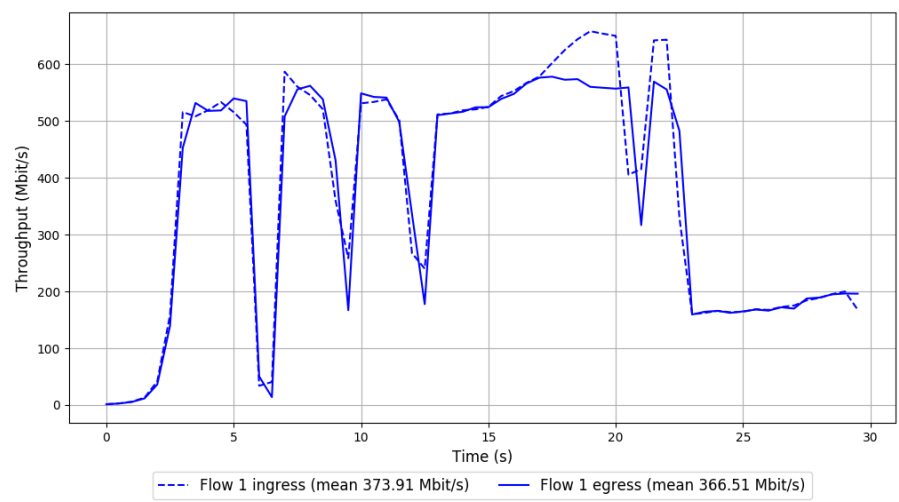
-- Flow 1:

Average throughput: 366.51 Mbit/s

95th percentile per-packet one-way delay: 177.748 ms

Loss rate: 1.98%

Run 4: Report of Vivace-loss — Data Link



Run 5: Statistics of Vivace-loss

Start at: 2018-02-13 14:42:41

End at: 2018-02-13 14:43:11

Below is generated by plot.py at 2018-02-13 18:41:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 451.46 Mbit/s

95th percentile per-packet one-way delay: 175.300 ms

Loss rate: 1.41%

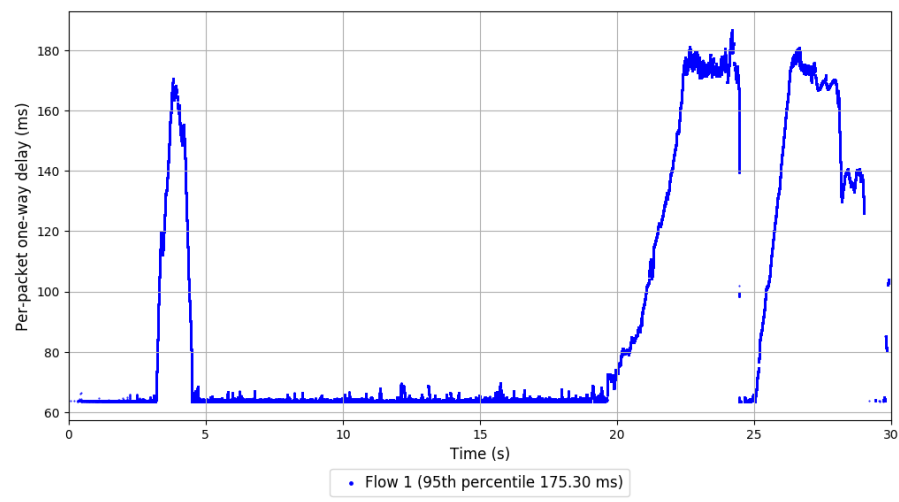
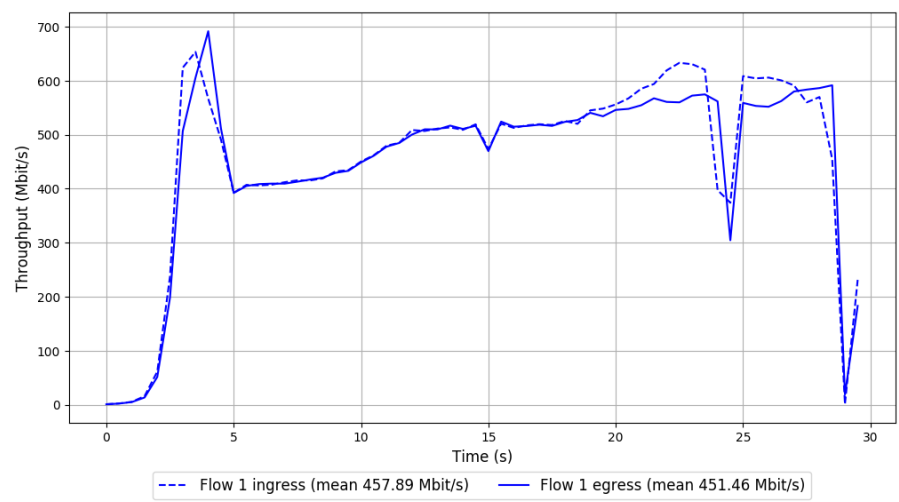
-- Flow 1:

Average throughput: 451.46 Mbit/s

95th percentile per-packet one-way delay: 175.300 ms

Loss rate: 1.41%

Run 5: Report of Vivace-loss — Data Link



Run 6: Statistics of Vivace-loss

Start at: 2018-02-13 14:57:25

End at: 2018-02-13 14:57:55

Below is generated by plot.py at 2018-02-13 18:41:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 463.87 Mbit/s

95th percentile per-packet one-way delay: 180.043 ms

Loss rate: 2.55%

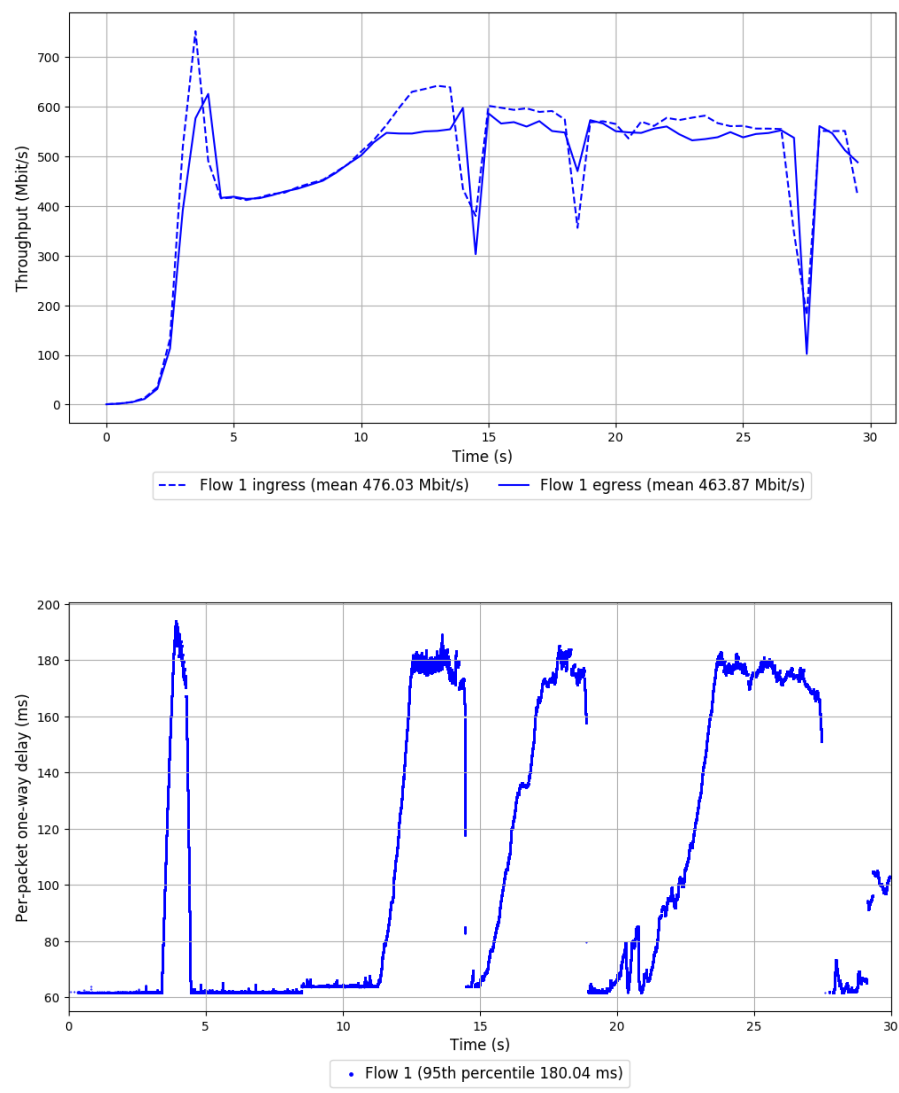
-- Flow 1:

Average throughput: 463.87 Mbit/s

95th percentile per-packet one-way delay: 180.043 ms

Loss rate: 2.55%

Run 6: Report of Vivace-loss — Data Link



Run 7: Statistics of Vivace-loss

Start at: 2018-02-13 15:12:05

End at: 2018-02-13 15:12:35

Below is generated by plot.py at 2018-02-13 18:42:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 470.36 Mbit/s

95th percentile per-packet one-way delay: 245.543 ms

Loss rate: 2.70%

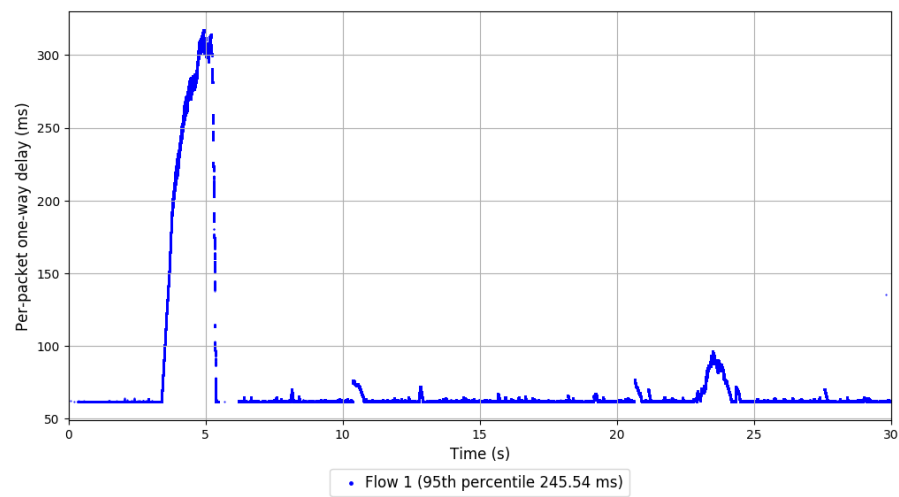
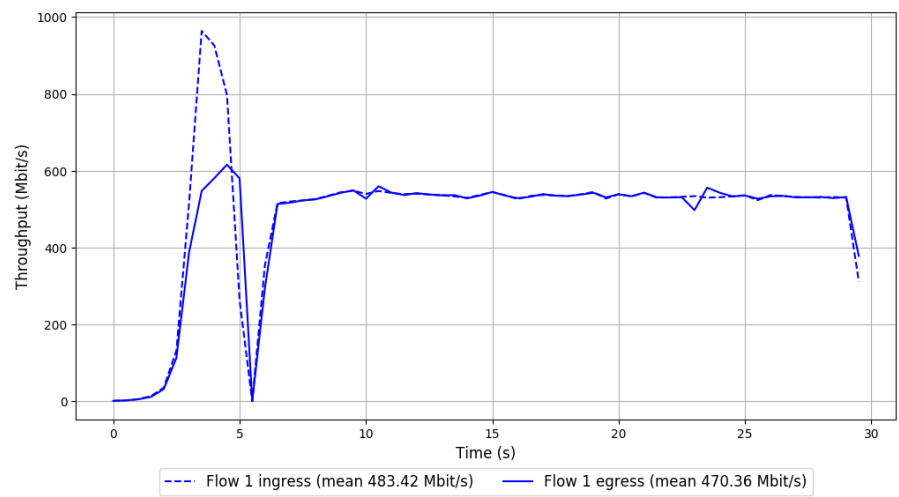
-- Flow 1:

Average throughput: 470.36 Mbit/s

95th percentile per-packet one-way delay: 245.543 ms

Loss rate: 2.70%

Run 7: Report of Vivace-loss — Data Link



Run 8: Statistics of Vivace-loss

Start at: 2018-02-13 15:27:02

End at: 2018-02-13 15:27:32

Below is generated by plot.py at 2018-02-13 18:42:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 401.03 Mbit/s

95th percentile per-packet one-way delay: 184.335 ms

Loss rate: 2.77%

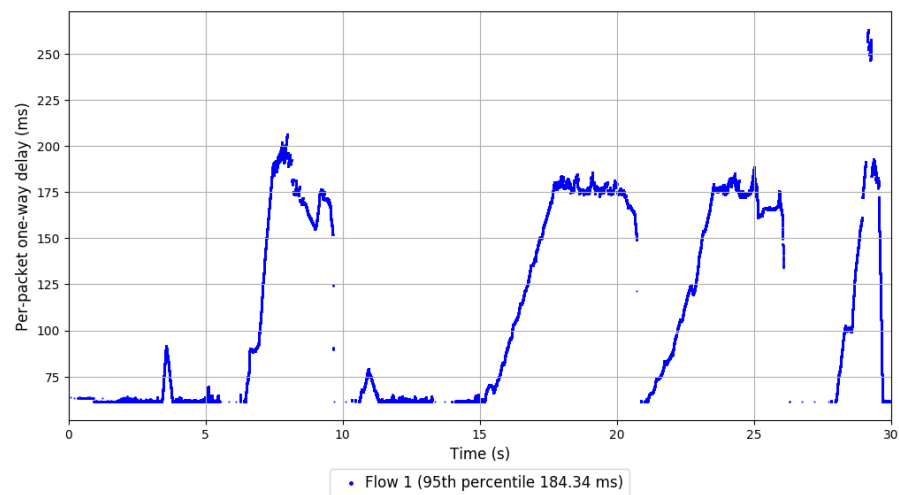
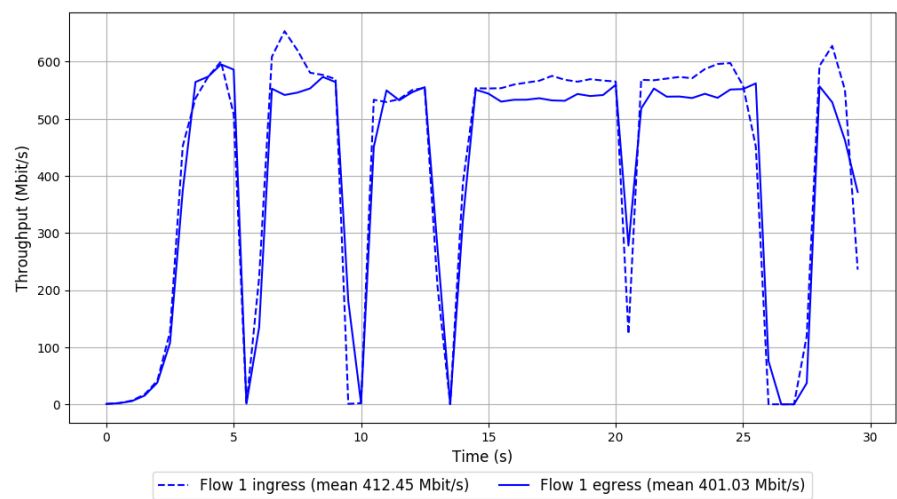
-- Flow 1:

Average throughput: 401.03 Mbit/s

95th percentile per-packet one-way delay: 184.335 ms

Loss rate: 2.77%

Run 8: Report of Vivace-loss — Data Link



Run 9: Statistics of Vivace-loss

Start at: 2018-02-13 15:42:03

End at: 2018-02-13 15:42:33

Below is generated by plot.py at 2018-02-13 18:42:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 391.22 Mbit/s

95th percentile per-packet one-way delay: 177.347 ms

Loss rate: 2.86%

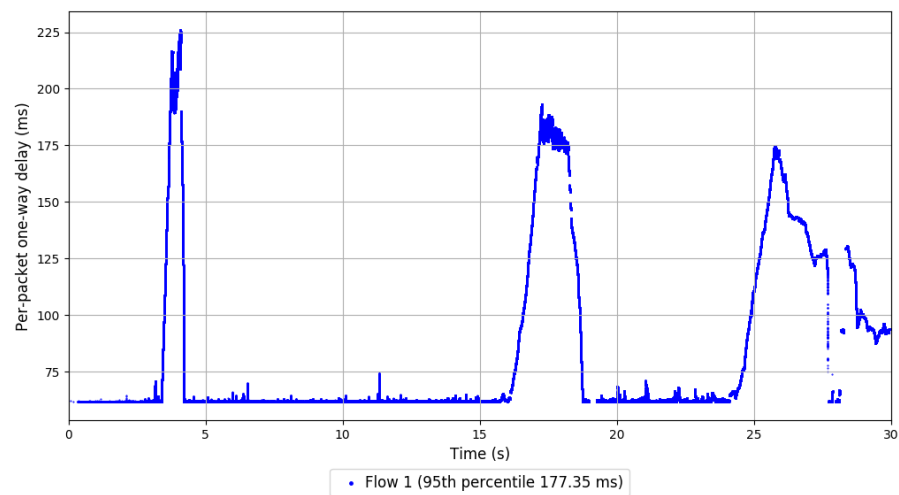
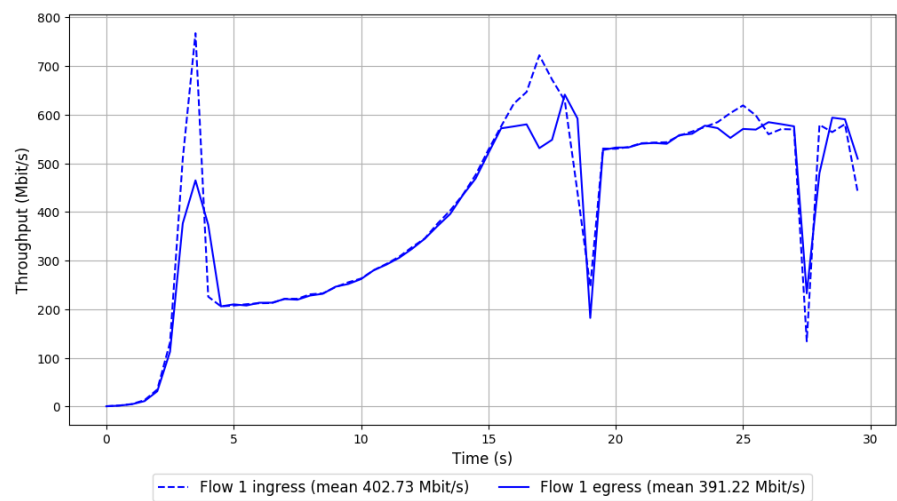
-- Flow 1:

Average throughput: 391.22 Mbit/s

95th percentile per-packet one-way delay: 177.347 ms

Loss rate: 2.86%

Run 9: Report of Vivace-loss — Data Link



Run 10: Statistics of Vivace-loss

Start at: 2018-02-13 15:56:55

End at: 2018-02-13 15:57:25

Below is generated by plot.py at 2018-02-13 18:43:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 458.76 Mbit/s

95th percentile per-packet one-way delay: 186.724 ms

Loss rate: 7.93%

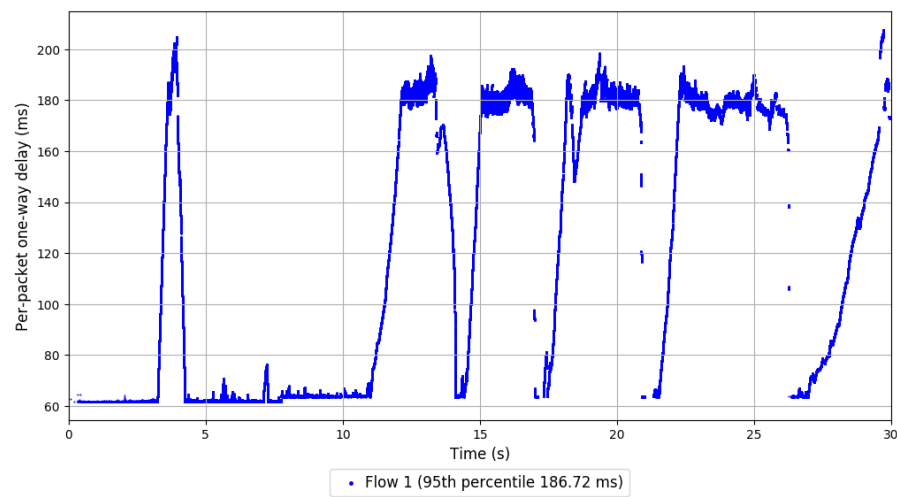
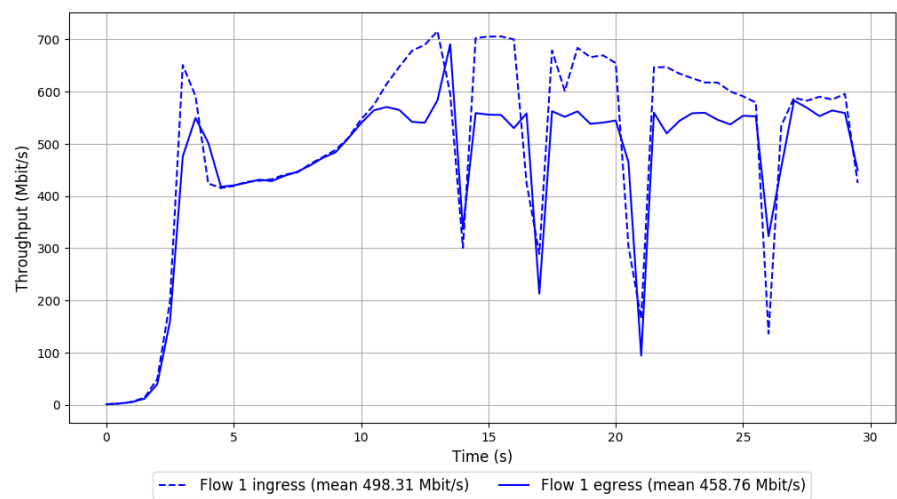
-- Flow 1:

Average throughput: 458.76 Mbit/s

95th percentile per-packet one-way delay: 186.724 ms

Loss rate: 7.93%

Run 10: Report of Vivace-loss — Data Link

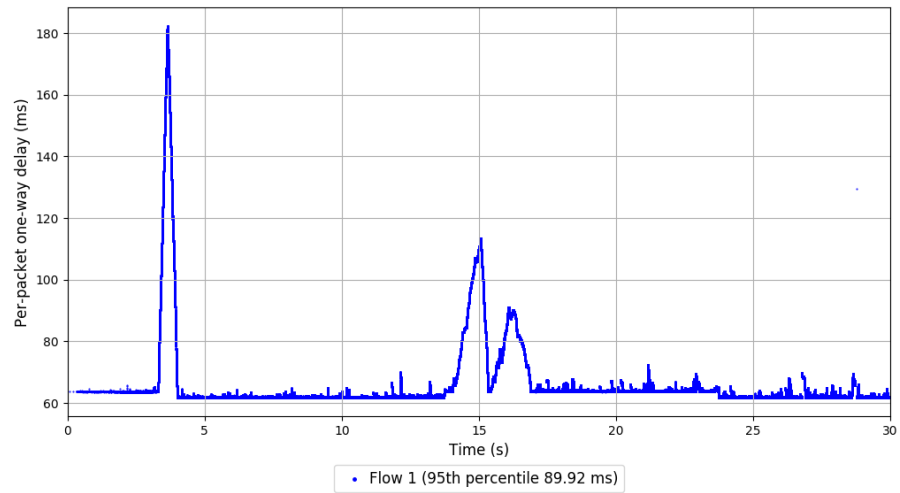
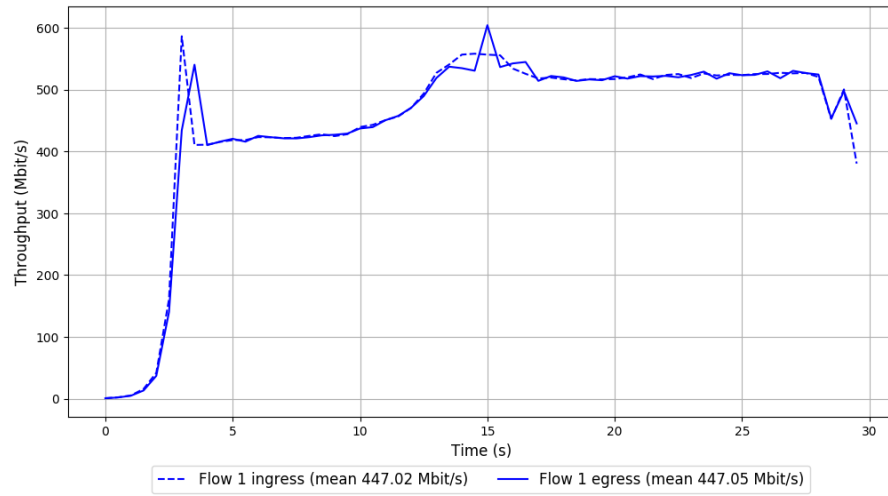


```
Run 1: Statistics of Vivace-LTE

Start at: 2018-02-13 13:37:29
End at: 2018-02-13 13:37:59

# Below is generated by plot.py at 2018-02-13 18:44:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 447.05 Mbit/s
95th percentile per-packet one-way delay: 89.921 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 447.05 Mbit/s
95th percentile per-packet one-way delay: 89.921 ms
Loss rate: 0.00%
```

Run 1: Report of Vivace-LTE — Data Link



Run 2: Statistics of Vivace-LTE

Start at: 2018-02-13 13:52:13

End at: 2018-02-13 13:52:43

Below is generated by plot.py at 2018-02-13 18:44:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 420.11 Mbit/s

95th percentile per-packet one-way delay: 117.864 ms

Loss rate: 0.28%

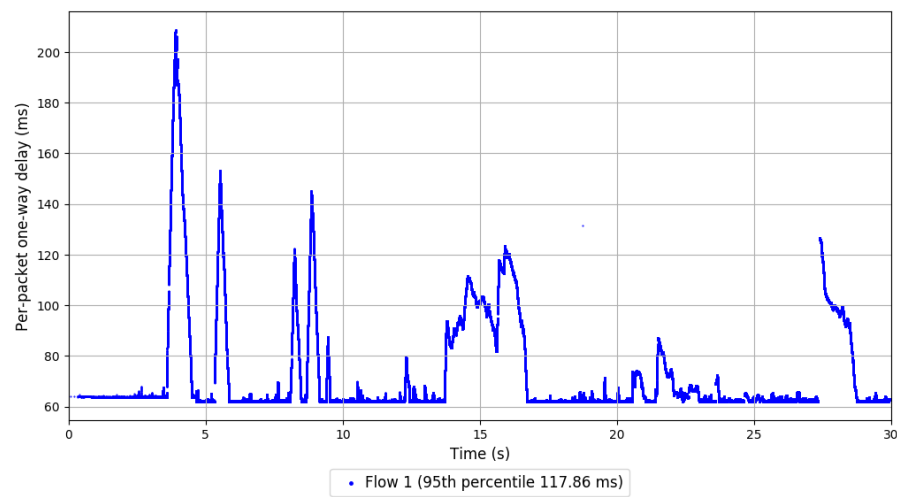
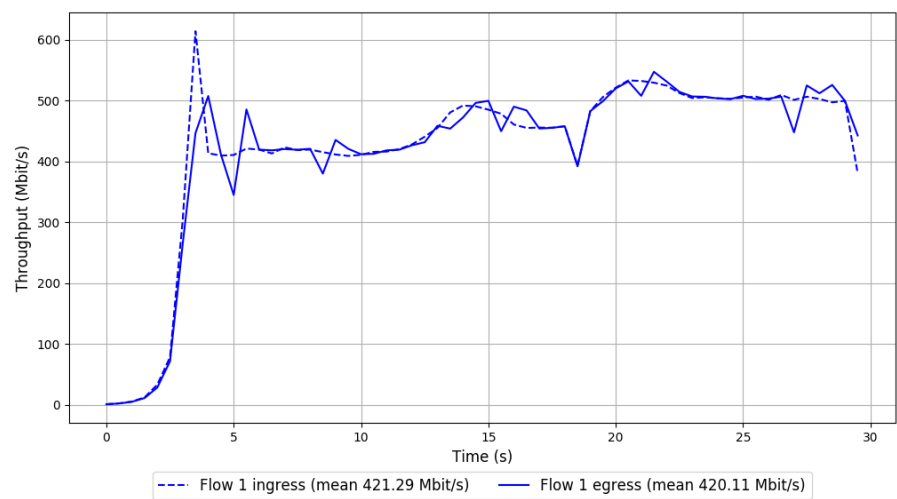
-- Flow 1:

Average throughput: 420.11 Mbit/s

95th percentile per-packet one-way delay: 117.864 ms

Loss rate: 0.28%

Run 2: Report of Vivace-LTE — Data Link



Run 3: Statistics of Vivace-LTE

Start at: 2018-02-13 14:06:56

End at: 2018-02-13 14:07:26

Below is generated by plot.py at 2018-02-13 18:48:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 448.58 Mbit/s

95th percentile per-packet one-way delay: 79.443 ms

Loss rate: 0.01%

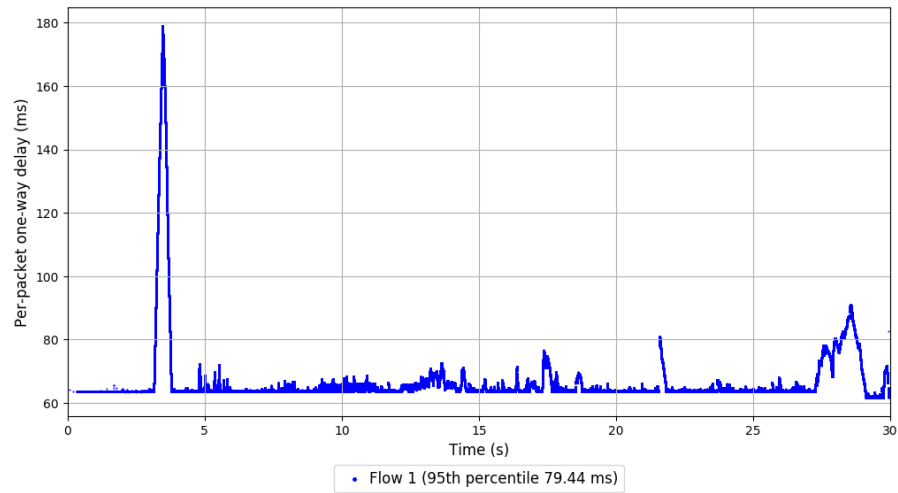
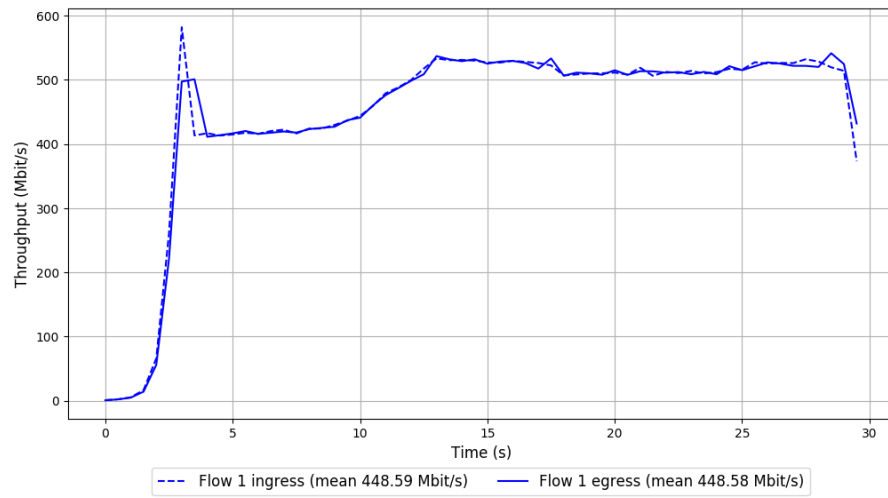
-- Flow 1:

Average throughput: 448.58 Mbit/s

95th percentile per-packet one-way delay: 79.443 ms

Loss rate: 0.01%

Run 3: Report of Vivace-LTE — Data Link



Run 4: Statistics of Vivace-LTE

Start at: 2018-02-13 14:21:38

End at: 2018-02-13 14:22:08

Below is generated by plot.py at 2018-02-13 18:48:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 412.57 Mbit/s

95th percentile per-packet one-way delay: 110.744 ms

Loss rate: 0.17%

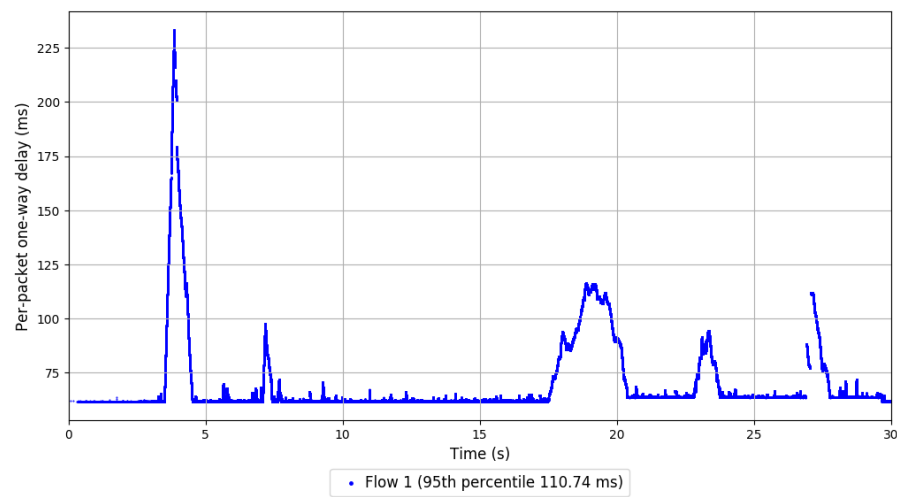
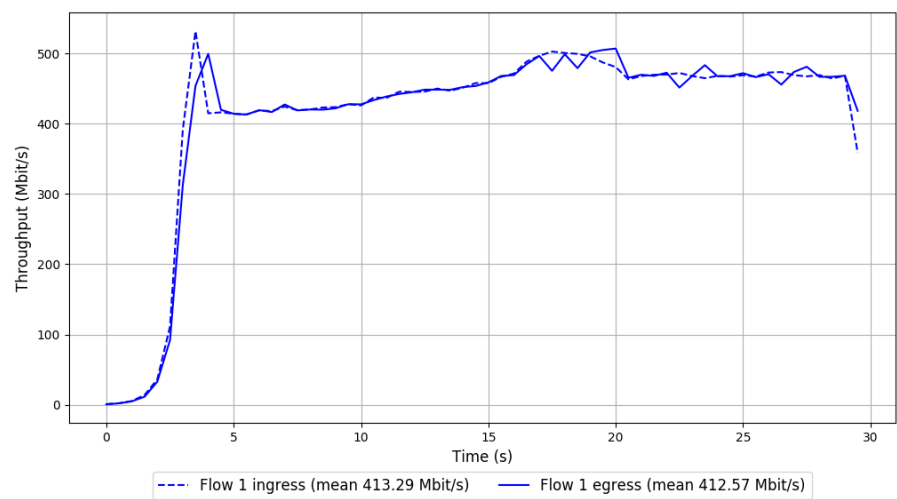
-- Flow 1:

Average throughput: 412.57 Mbit/s

95th percentile per-packet one-way delay: 110.744 ms

Loss rate: 0.17%

Run 4: Report of Vivace-LTE — Data Link



Run 5: Statistics of Vivace-LTE

Start at: 2018-02-13 14:36:22

End at: 2018-02-13 14:36:52

Below is generated by plot.py at 2018-02-13 18:48:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 444.66 Mbit/s

95th percentile per-packet one-way delay: 67.211 ms

Loss rate: 0.00%

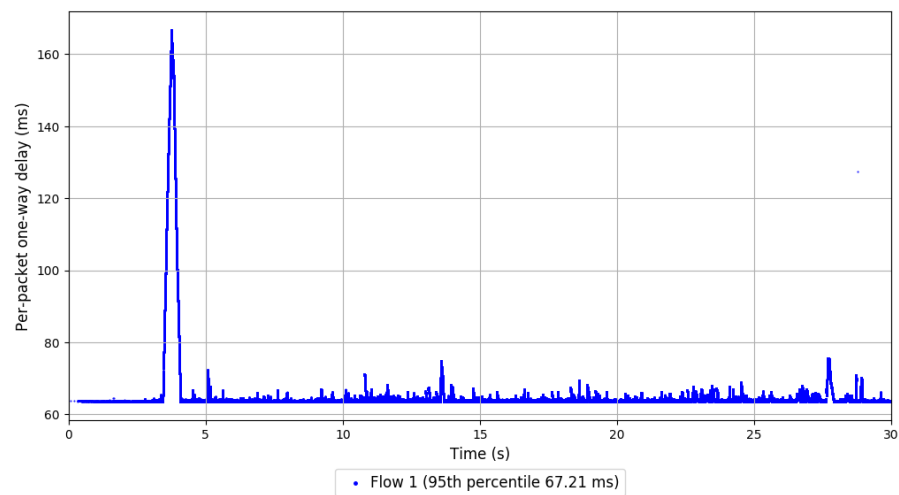
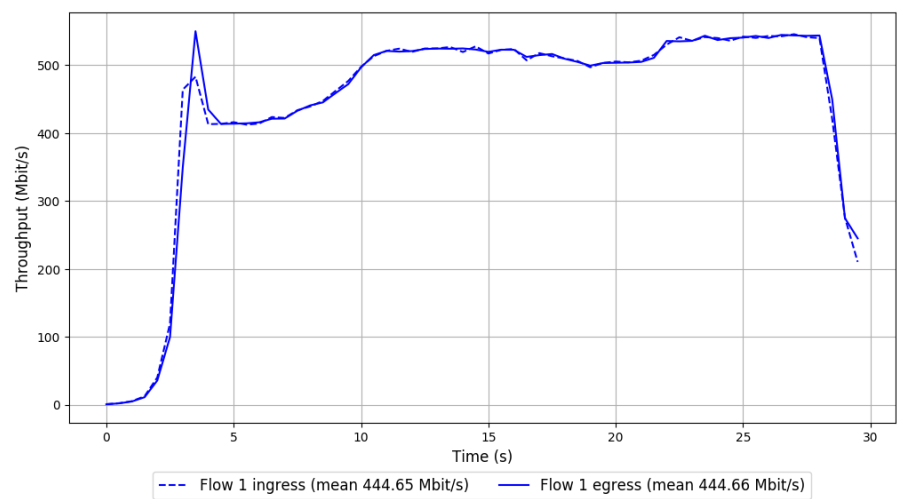
-- Flow 1:

Average throughput: 444.66 Mbit/s

95th percentile per-packet one-way delay: 67.211 ms

Loss rate: 0.00%

Run 5: Report of Vivace-LTE — Data Link



Run 6: Statistics of Vivace-LTE

Start at: 2018-02-13 14:51:11

End at: 2018-02-13 14:51:41

Below is generated by plot.py at 2018-02-13 18:48:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 435.56 Mbit/s

95th percentile per-packet one-way delay: 83.548 ms

Loss rate: 0.01%

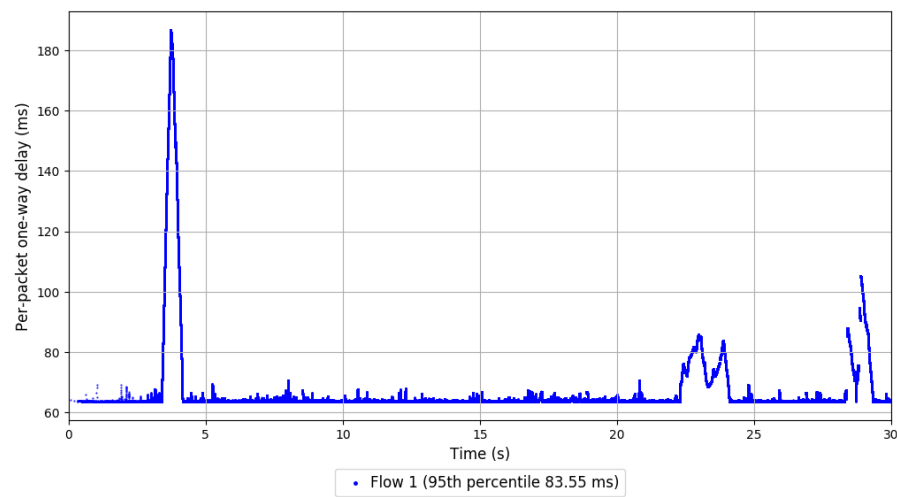
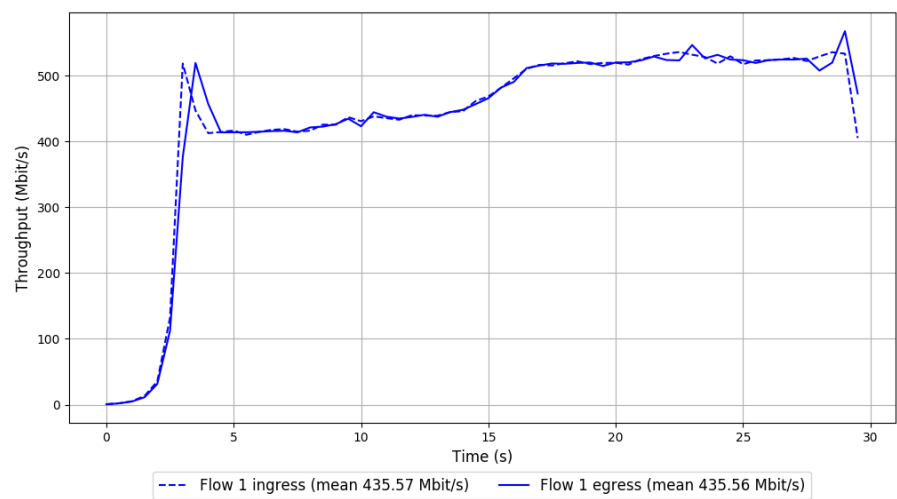
-- Flow 1:

Average throughput: 435.56 Mbit/s

95th percentile per-packet one-way delay: 83.548 ms

Loss rate: 0.01%

Run 6: Report of Vivace-LTE — Data Link



Run 7: Statistics of Vivace-LTE

Start at: 2018-02-13 15:05:55

End at: 2018-02-13 15:06:25

Below is generated by plot.py at 2018-02-13 18:48:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 419.00 Mbit/s

95th percentile per-packet one-way delay: 172.396 ms

Loss rate: 0.11%

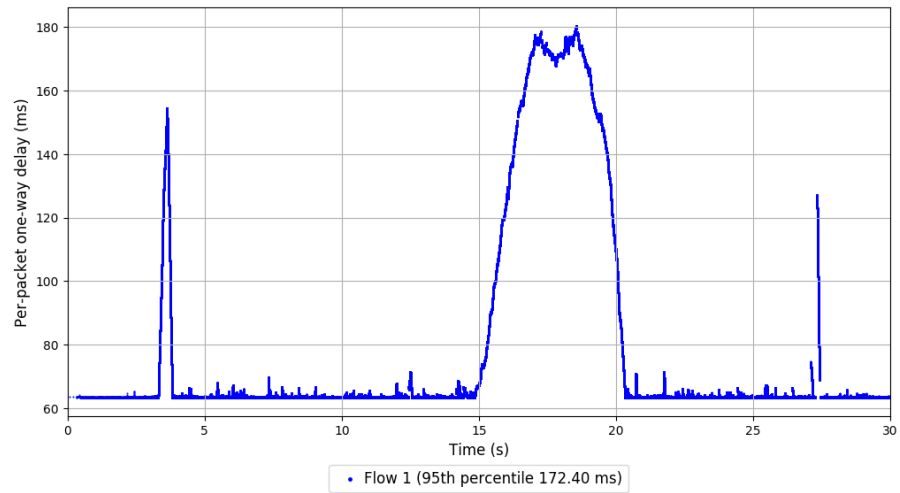
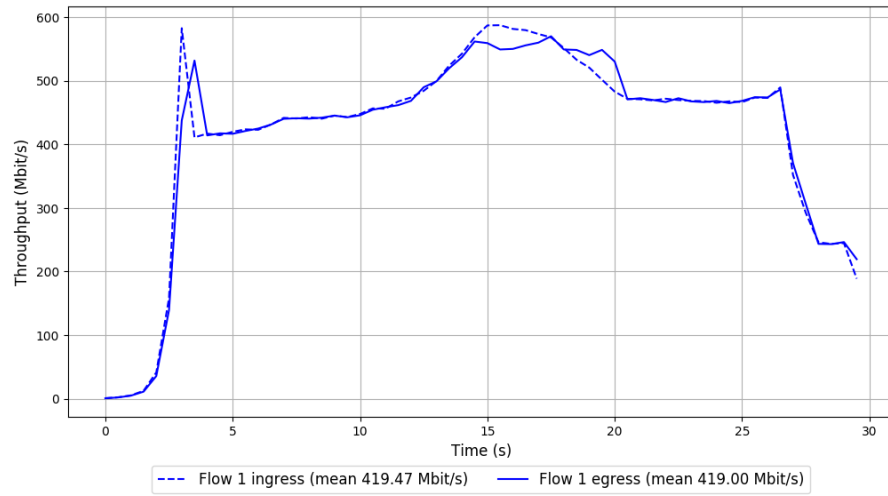
-- Flow 1:

Average throughput: 419.00 Mbit/s

95th percentile per-packet one-way delay: 172.396 ms

Loss rate: 0.11%

Run 7: Report of Vivace-LTE — Data Link



Run 8: Statistics of Vivace-LTE

Start at: 2018-02-13 15:20:46

End at: 2018-02-13 15:21:16

Below is generated by plot.py at 2018-02-13 18:49:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 428.51 Mbit/s

95th percentile per-packet one-way delay: 69.795 ms

Loss rate: 0.00%

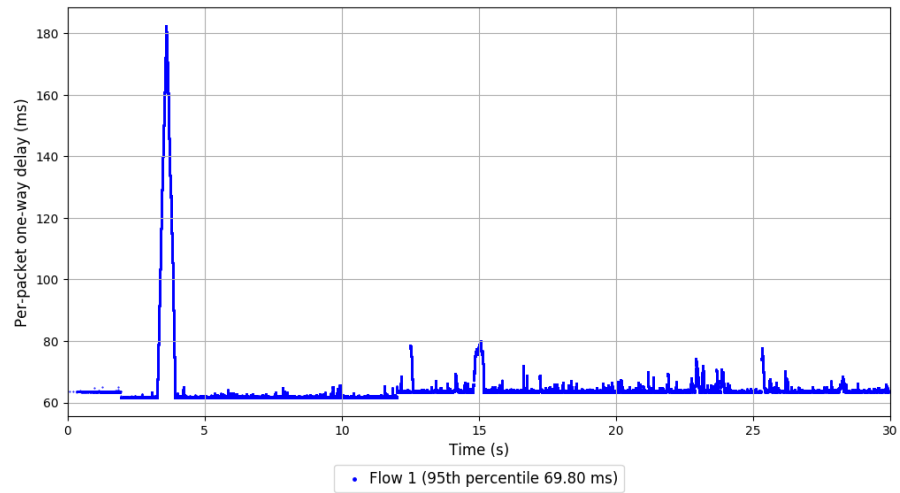
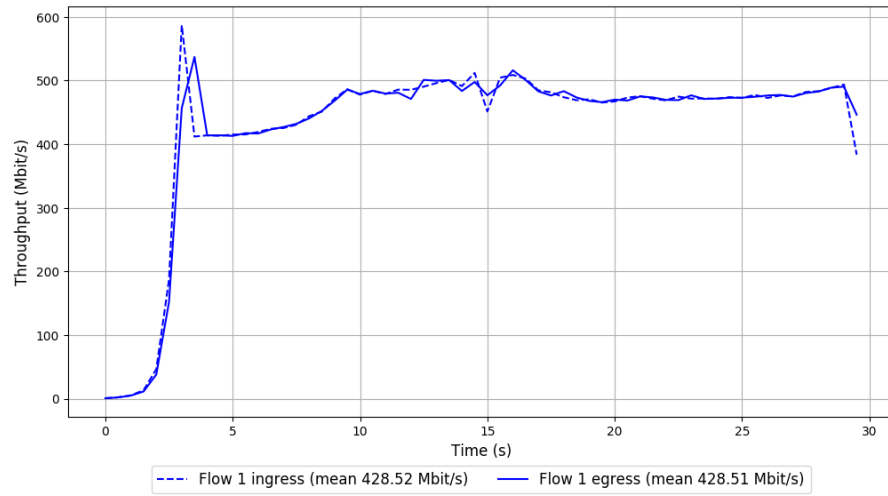
-- Flow 1:

Average throughput: 428.51 Mbit/s

95th percentile per-packet one-way delay: 69.795 ms

Loss rate: 0.00%

Run 8: Report of Vivace-LTE — Data Link



Run 9: Statistics of Vivace-LTE

Start at: 2018-02-13 15:35:42

End at: 2018-02-13 15:36:12

Below is generated by plot.py at 2018-02-13 18:49:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 446.86 Mbit/s

95th percentile per-packet one-way delay: 68.326 ms

Loss rate: 0.04%

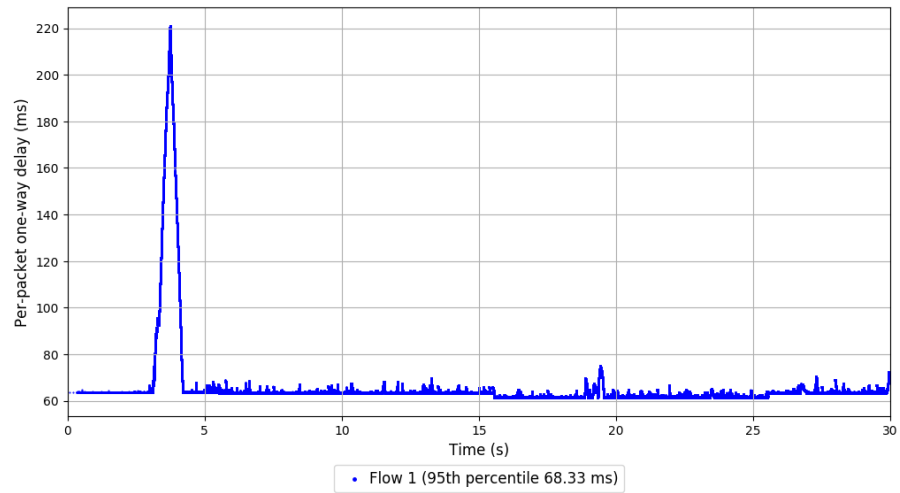
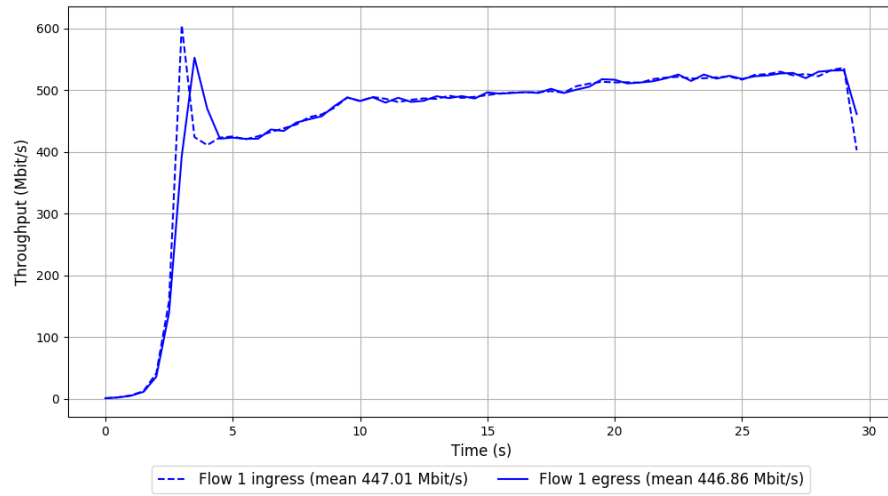
-- Flow 1:

Average throughput: 446.86 Mbit/s

95th percentile per-packet one-way delay: 68.326 ms

Loss rate: 0.04%

Run 9: Report of Vivace-LTE — Data Link



Run 10: Statistics of Vivace-LTE

Start at: 2018-02-13 15:50:39

End at: 2018-02-13 15:51:09

Below is generated by plot.py at 2018-02-13 18:49:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 443.48 Mbit/s

95th percentile per-packet one-way delay: 84.962 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 443.48 Mbit/s

95th percentile per-packet one-way delay: 84.962 ms

Loss rate: 0.00%

Run 10: Report of Vivace-LTE — Data Link

