

Pantheon Report

Generated at 2018-01-17 04:28:52 (UTC).

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

Repeated the test of 17 congestion control schemes 10 times.

Each test lasted for 30 seconds running 1 flow.

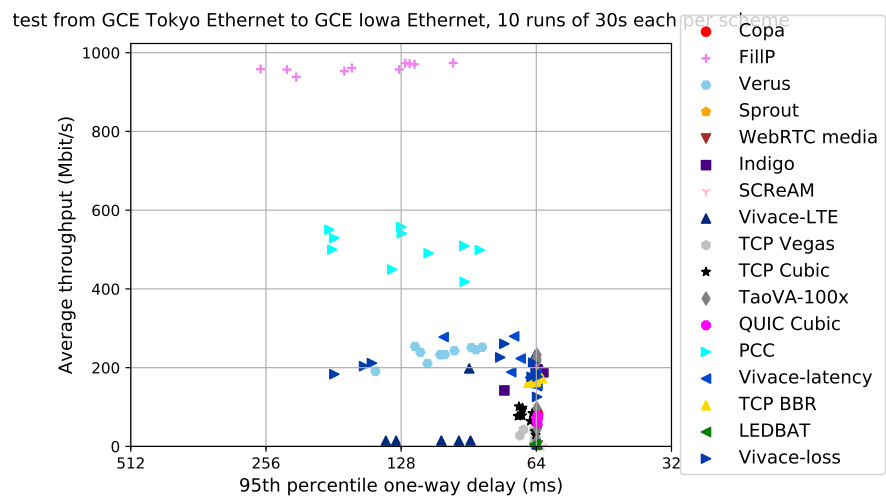
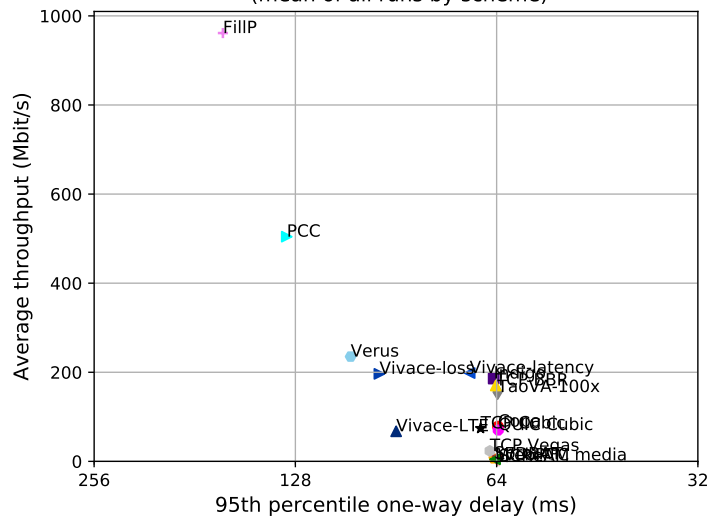
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

Git summary:

```
branch: master @ af8abdfba95588b0c5f2aeca9e856a1656b0c598
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ ec9585325218d5048c4d4152fa42240af54c6e67
third_party/genericCC @ 80b516c448f795fd6e9675f7177b69c622f07da8
third_party/indigo @ b19f3730105f9aa95452552af924e3719b03cc55
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
  M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ fb1053193c2861da659ba9013db26744ccfcf993
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
  M receiver/src/buffer.h
  M receiver/src/core.cpp
  M sender/src/buffer.h
  M sender/src/core.cpp
third_party/proto-quirk @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eaaeb30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
  M src/examples/cellsim.cc
  M src/examples/sproutbt2.cc
  M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/vivace @ 423cbca3e8ea1d599e7b5cf725835e8a2b6bfac6
third_party/webRTC @ a488197ddd041ace68a42849b2540ad834825f42
```

test from GCE Tokyo Ethernet to GCE Iowa 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	170.41	64.19	0.68
TCP Cubic	10	74.04	67.63	1.06
LEDBAT	10	4.58	64.37	1.43
PCC	10	504.39	131.84	0.98
QUIC Cubic	10	70.33	63.65	0.49
SCReAM	10	0.22	63.56	0.39
WebRTC media	9	2.28	63.83	0.47
Sprout	10	6.21	64.57	1.34
TaoVA-100x	9	155.60	63.80	0.52
TCP Vegas	8	23.44	65.52	1.25
Verus	10	235.19	105.83	1.39
Copa	10	77.97	63.70	0.37
FillP	10	961.45	164.29	1.57
Indigo	10	185.99	64.65	0.55
Vivace-latency	10	198.21	70.23	0.58
Vivace-loss	10	196.41	95.83	0.76
Vivace-LTE	10	67.53	90.47	0.27

Run 1: Statistics of TCP BBR

Start at: 2018-01-16 22:29:49

End at: 2018-01-16 22:30:19

Below is generated by plot.py at 2018-01-17 03:16:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 173.81 Mbit/s

95th percentile per-packet one-way delay: 63.891 ms

Loss rate: 0.45%

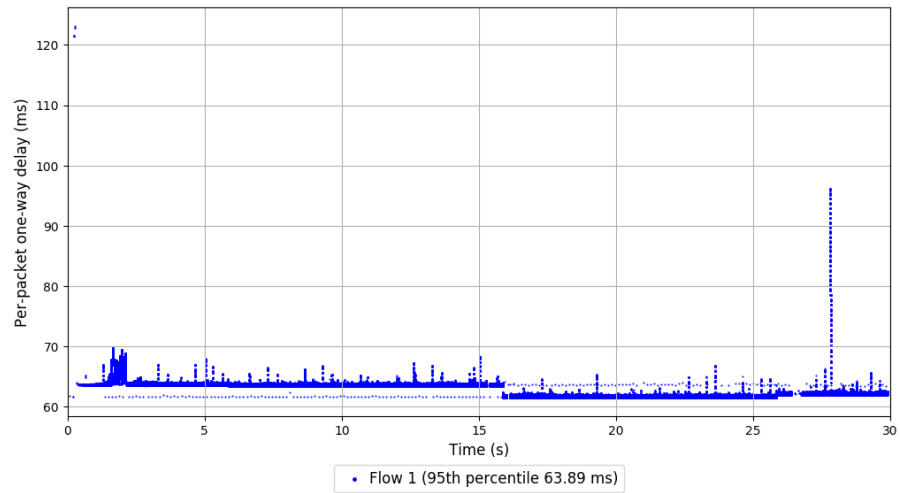
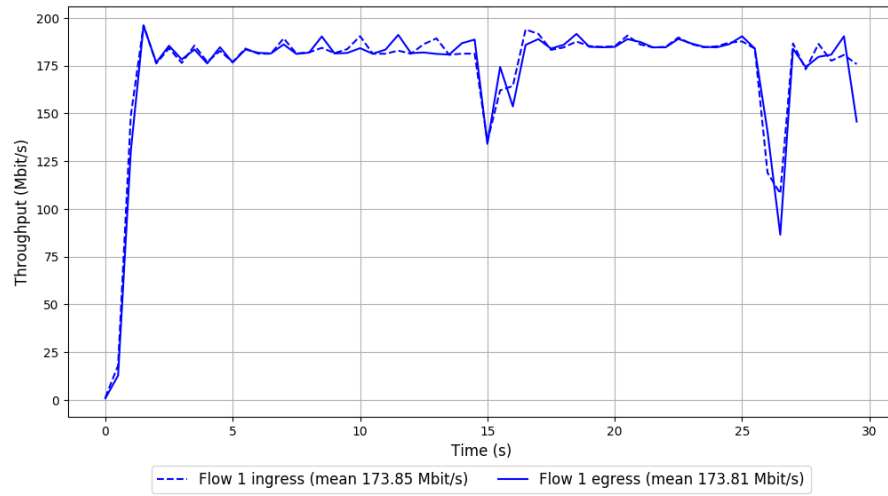
-- Flow 1:

Average throughput: 173.81 Mbit/s

95th percentile per-packet one-way delay: 63.891 ms

Loss rate: 0.45%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-01-16 22:44:17

End at: 2018-01-16 22:44:47

Below is generated by plot.py at 2018-01-17 03:16:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 173.54 Mbit/s

95th percentile per-packet one-way delay: 63.943 ms

Loss rate: 0.64%

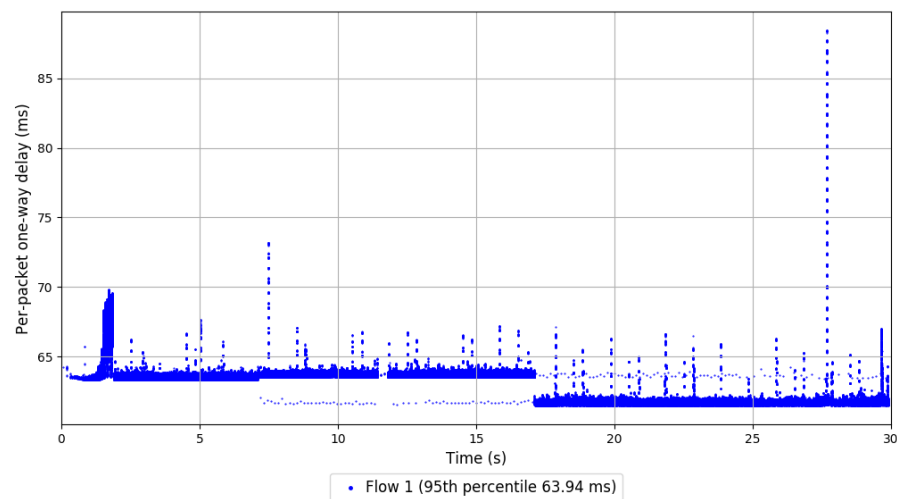
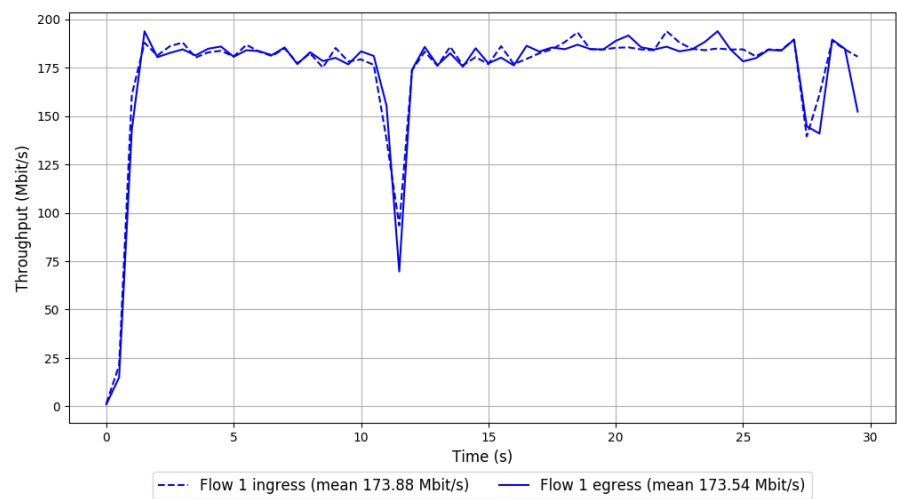
-- Flow 1:

Average throughput: 173.54 Mbit/s

95th percentile per-packet one-way delay: 63.943 ms

Loss rate: 0.64%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-01-16 22:58:55

End at: 2018-01-16 22:59:25

Below is generated by plot.py at 2018-01-17 03:16:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 163.70 Mbit/s

95th percentile per-packet one-way delay: 64.240 ms

Loss rate: 1.20%

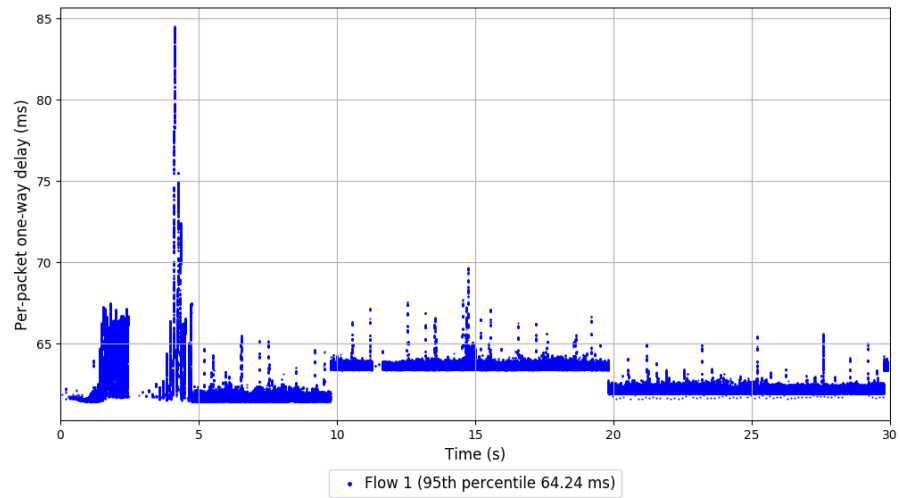
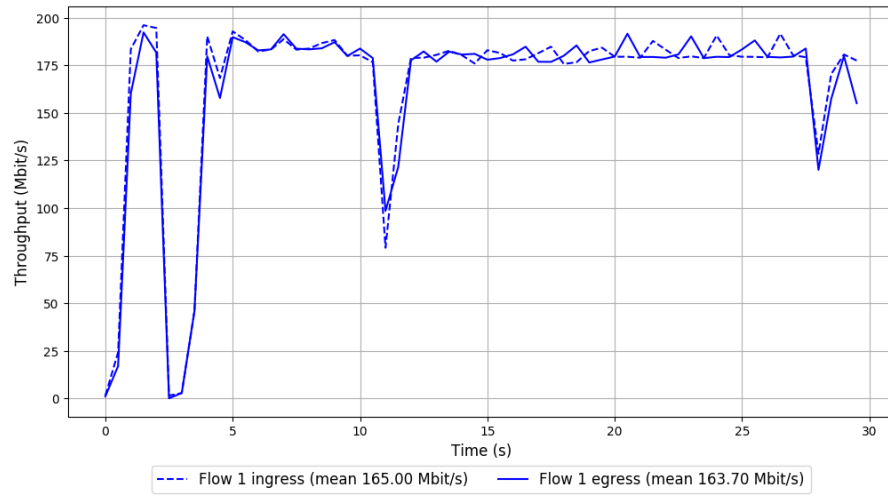
-- Flow 1:

Average throughput: 163.70 Mbit/s

95th percentile per-packet one-way delay: 64.240 ms

Loss rate: 1.20%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-01-16 23:12:57

End at: 2018-01-16 23:13:27

Below is generated by plot.py at 2018-01-17 03:16:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 171.39 Mbit/s

95th percentile per-packet one-way delay: 64.133 ms

Loss rate: 0.44%

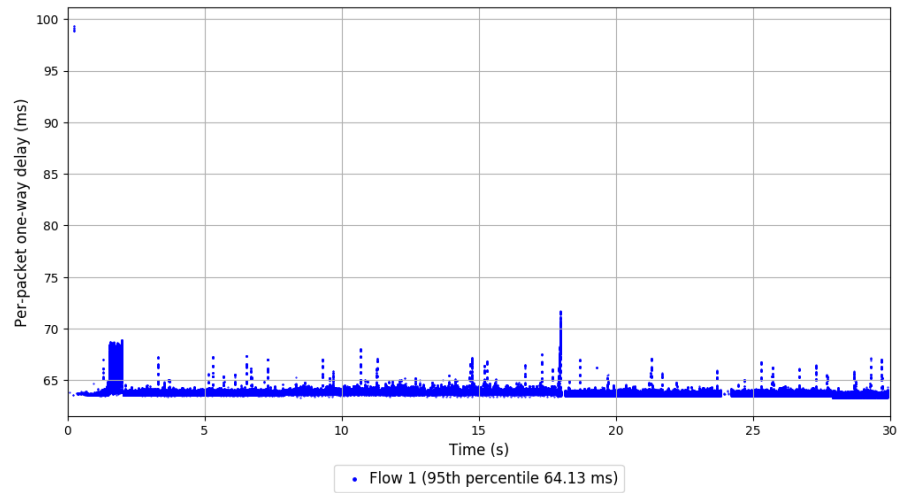
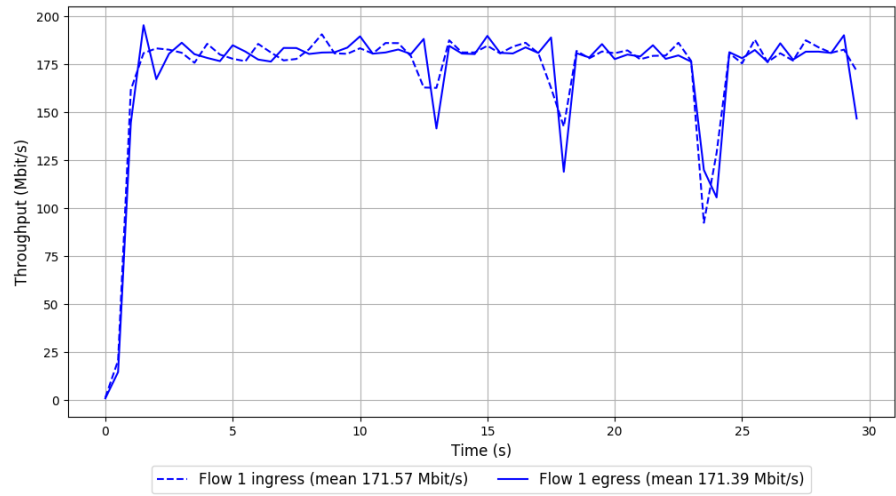
-- Flow 1:

Average throughput: 171.39 Mbit/s

95th percentile per-packet one-way delay: 64.133 ms

Loss rate: 0.44%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-01-16 23:27:14

End at: 2018-01-16 23:27:44

Below is generated by plot.py at 2018-01-17 03:16:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 171.04 Mbit/s

95th percentile per-packet one-way delay: 63.848 ms

Loss rate: 0.60%

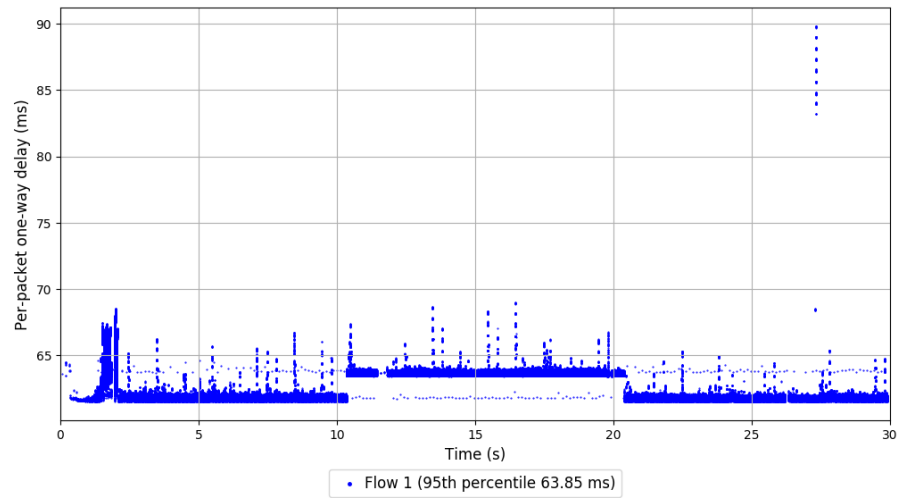
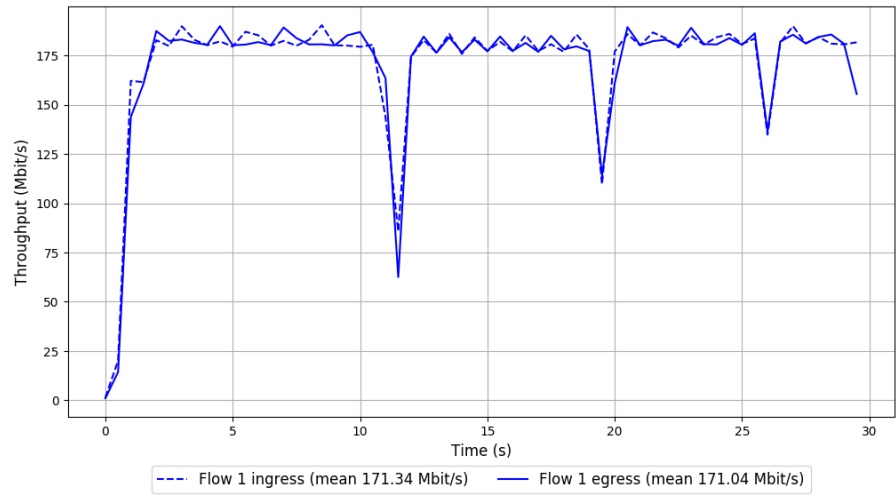
-- Flow 1:

Average throughput: 171.04 Mbit/s

95th percentile per-packet one-way delay: 63.848 ms

Loss rate: 0.60%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-01-16 23:41:31

End at: 2018-01-16 23:42:01

Below is generated by plot.py at 2018-01-17 03:16:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 172.19 Mbit/s

95th percentile per-packet one-way delay: 63.770 ms

Loss rate: 0.65%

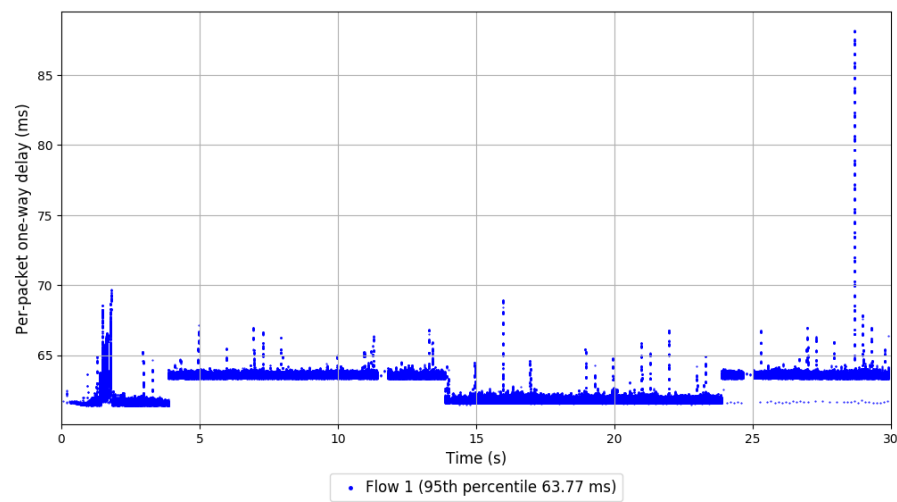
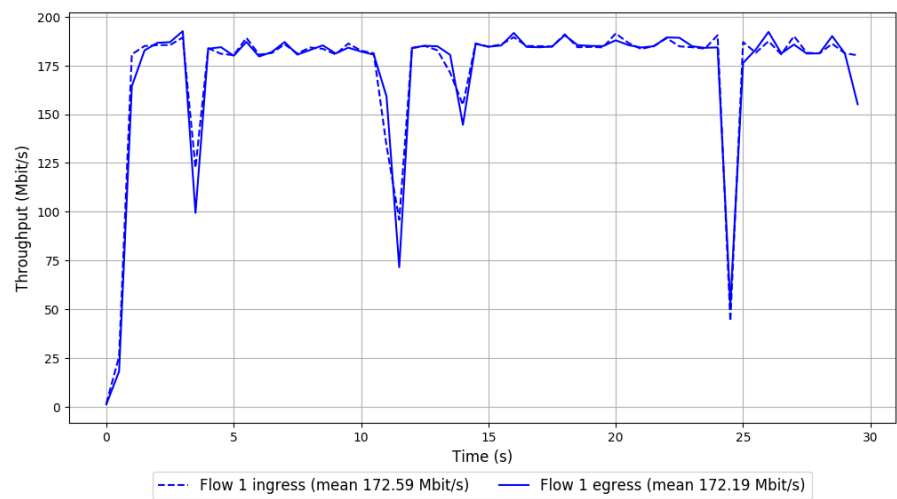
-- Flow 1:

Average throughput: 172.19 Mbit/s

95th percentile per-packet one-way delay: 63.770 ms

Loss rate: 0.65%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-01-16 23:55:51

End at: 2018-01-16 23:56:21

Below is generated by plot.py at 2018-01-17 03:16:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 172.95 Mbit/s

95th percentile per-packet one-way delay: 62.185 ms

Loss rate: 0.44%

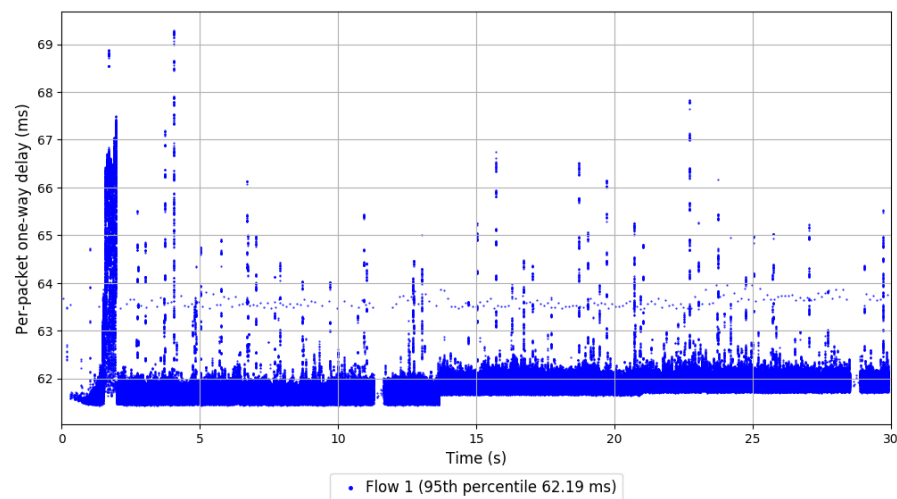
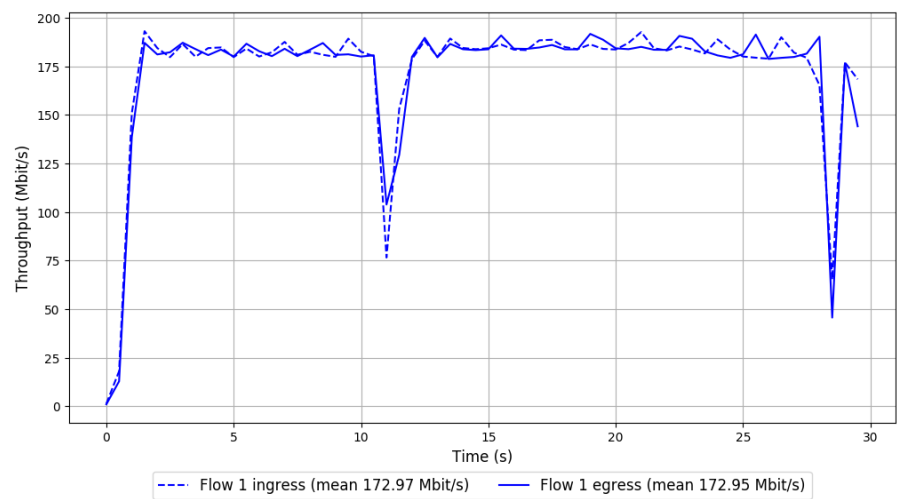
-- Flow 1:

Average throughput: 172.95 Mbit/s

95th percentile per-packet one-way delay: 62.185 ms

Loss rate: 0.44%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-01-17 00:09:58

End at: 2018-01-17 00:10:28

Below is generated by plot.py at 2018-01-17 03:16:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 161.74 Mbit/s

95th percentile per-packet one-way delay: 66.567 ms

Loss rate: 0.96%

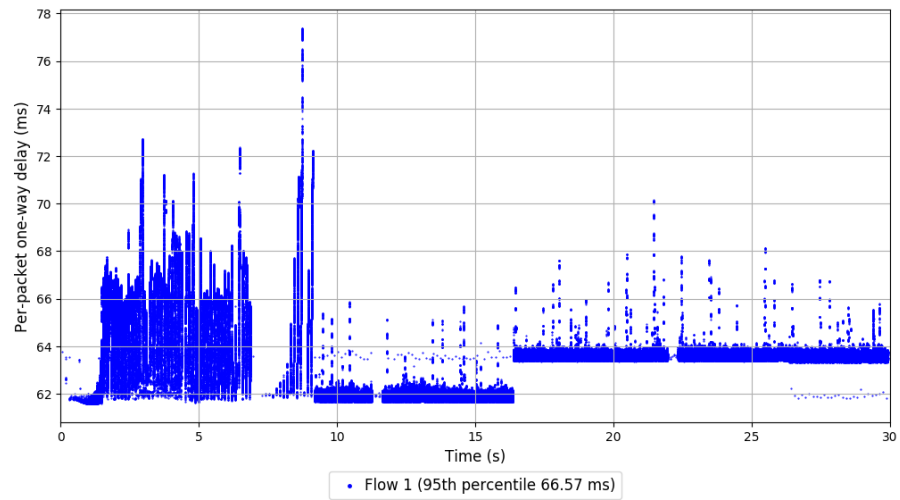
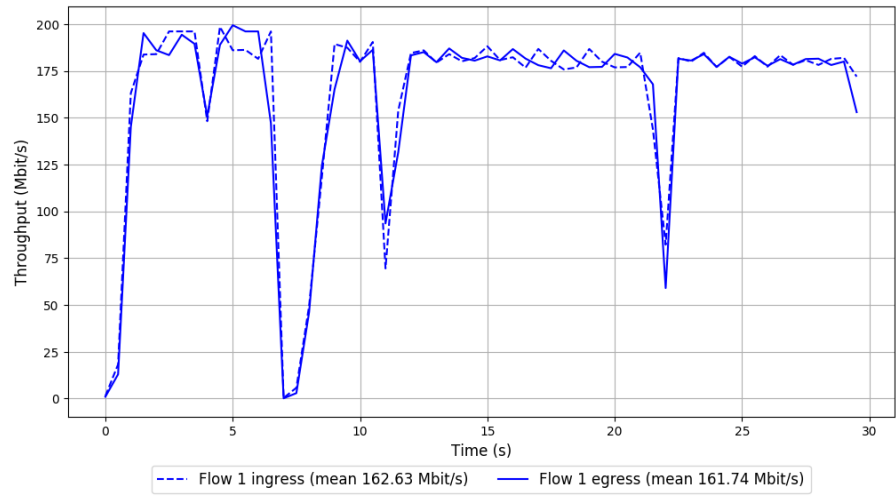
-- Flow 1:

Average throughput: 161.74 Mbit/s

95th percentile per-packet one-way delay: 66.567 ms

Loss rate: 0.96%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-01-17 00:24:18

End at: 2018-01-17 00:24:48

Below is generated by plot.py at 2018-01-17 03:19:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 177.16 Mbit/s

95th percentile per-packet one-way delay: 65.206 ms

Loss rate: 0.67%

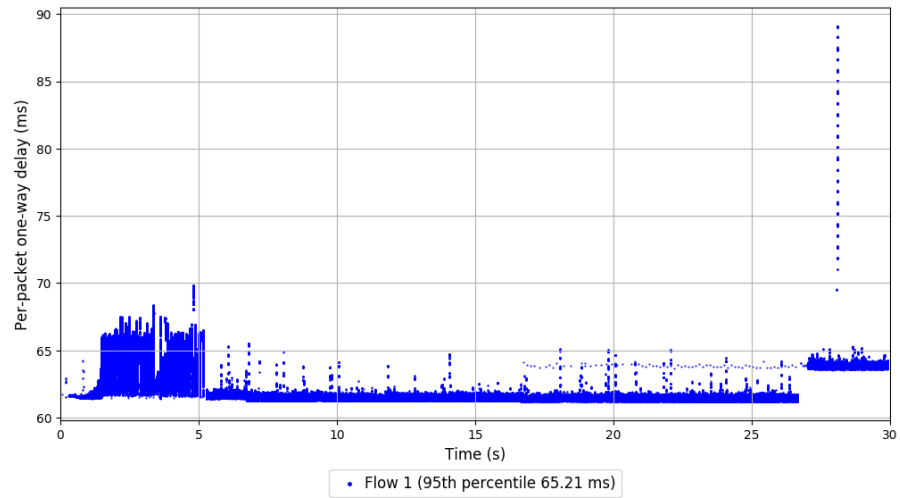
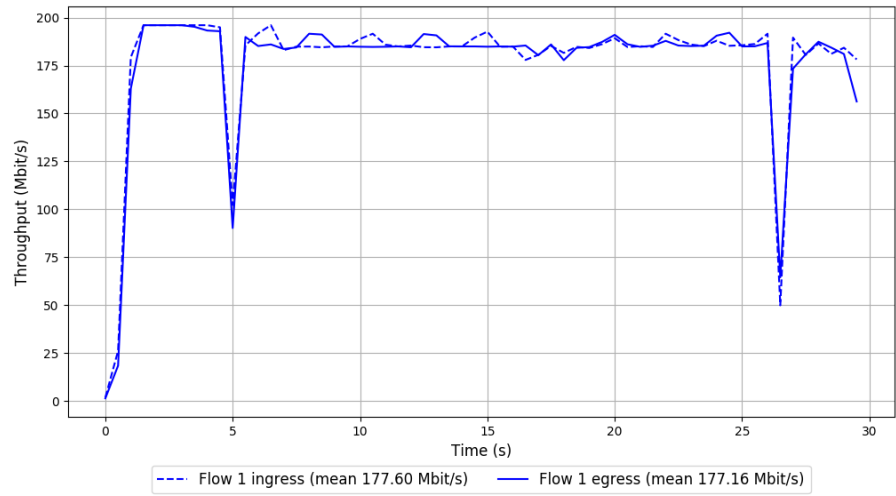
-- Flow 1:

Average throughput: 177.16 Mbit/s

95th percentile per-packet one-way delay: 65.206 ms

Loss rate: 0.67%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-01-17 00:38:41

End at: 2018-01-17 00:39:11

Below is generated by plot.py at 2018-01-17 03:19:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 166.55 Mbit/s

95th percentile per-packet one-way delay: 64.108 ms

Loss rate: 0.80%

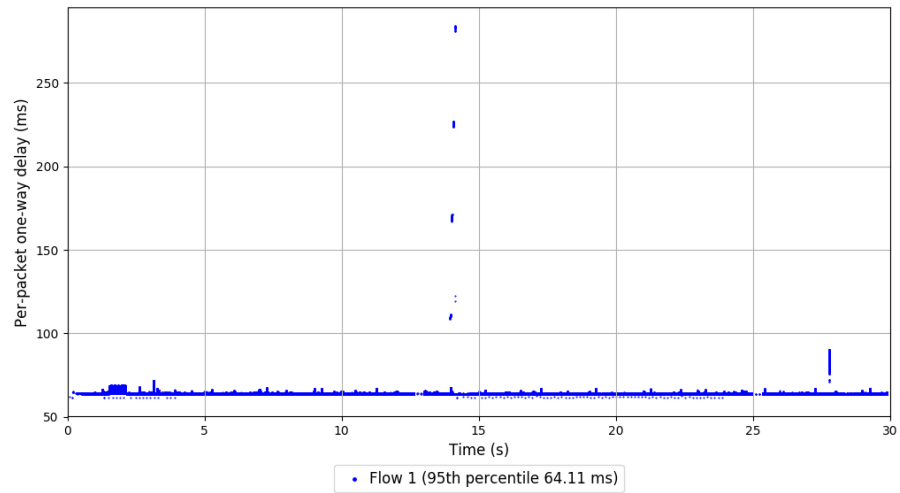
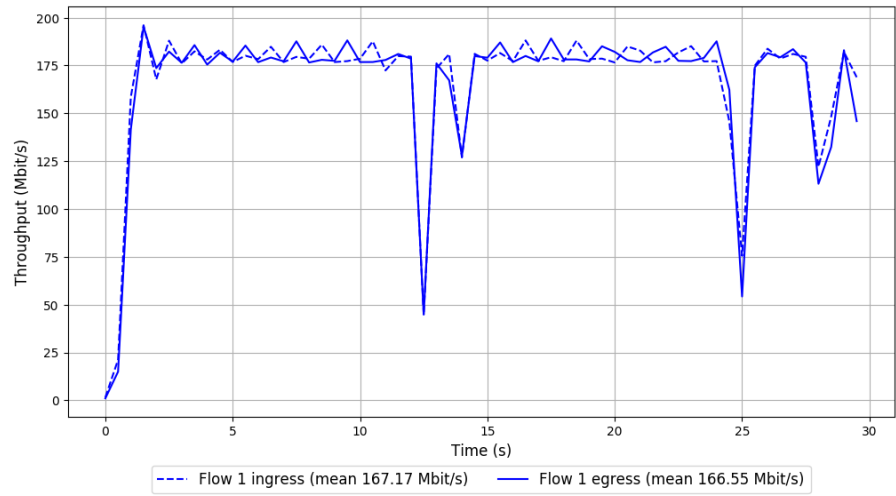
-- Flow 1:

Average throughput: 166.55 Mbit/s

95th percentile per-packet one-way delay: 64.108 ms

Loss rate: 0.80%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-01-16 22:23:26

End at: 2018-01-16 22:23:56

Below is generated by plot.py at 2018-01-17 03:19:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 97.78 Mbit/s

95th percentile per-packet one-way delay: 68.724 ms

Loss rate: 1.22%

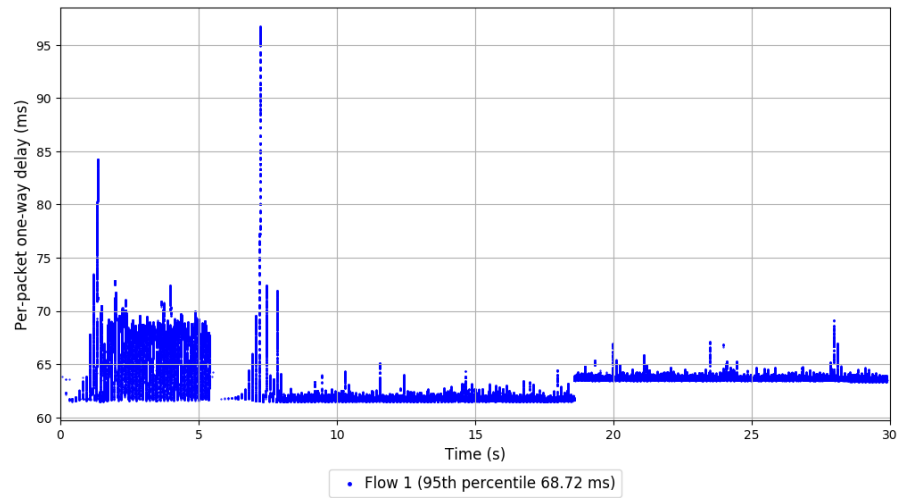
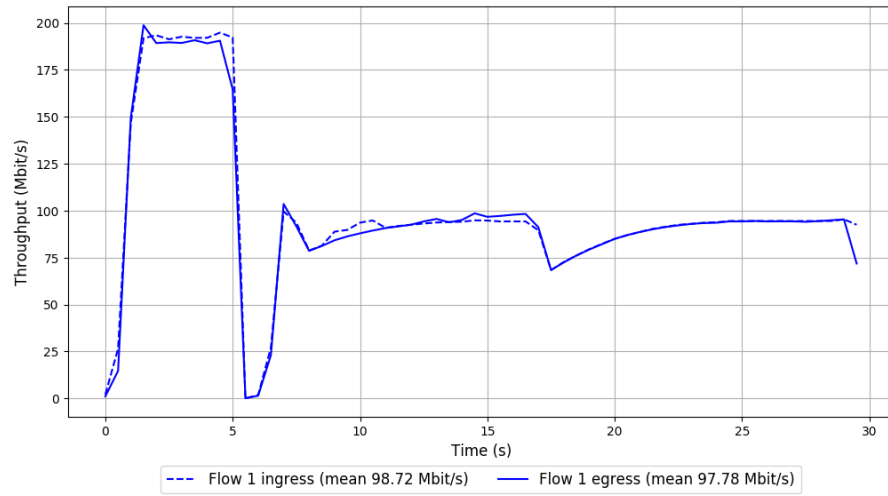
-- Flow 1:

Average throughput: 97.78 Mbit/s

95th percentile per-packet one-way delay: 68.724 ms

Loss rate: 1.22%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-01-16 22:38:01

End at: 2018-01-16 22:38:31

Below is generated by plot.py at 2018-01-17 03:19:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.30 Mbit/s

95th percentile per-packet one-way delay: 65.296 ms

Loss rate: 0.90%

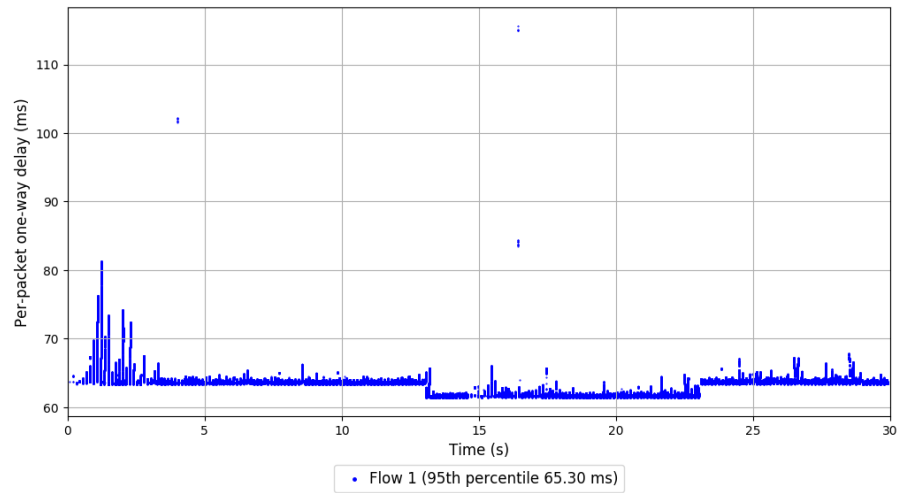
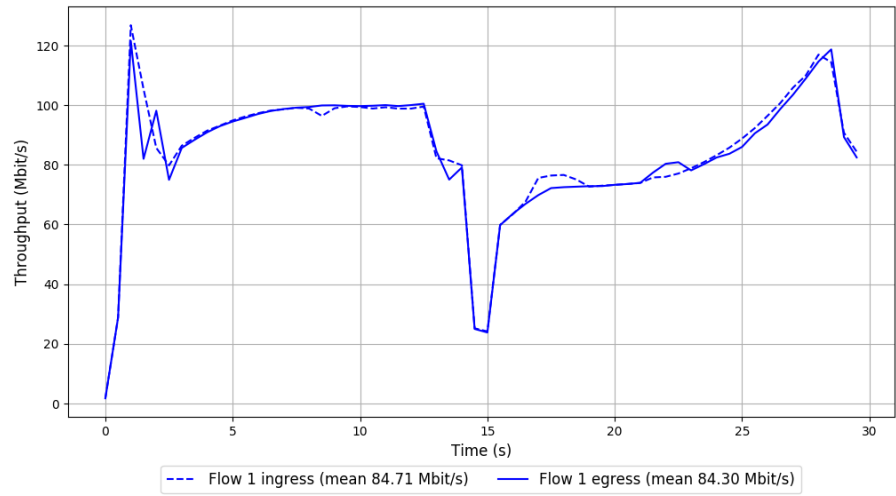
-- Flow 1:

Average throughput: 84.30 Mbit/s

95th percentile per-packet one-way delay: 65.296 ms

Loss rate: 0.90%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-01-16 22:52:13

End at: 2018-01-16 22:52:43

Below is generated by plot.py at 2018-01-17 03:19:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.37 Mbit/s

95th percentile per-packet one-way delay: 69.580 ms

Loss rate: 0.68%

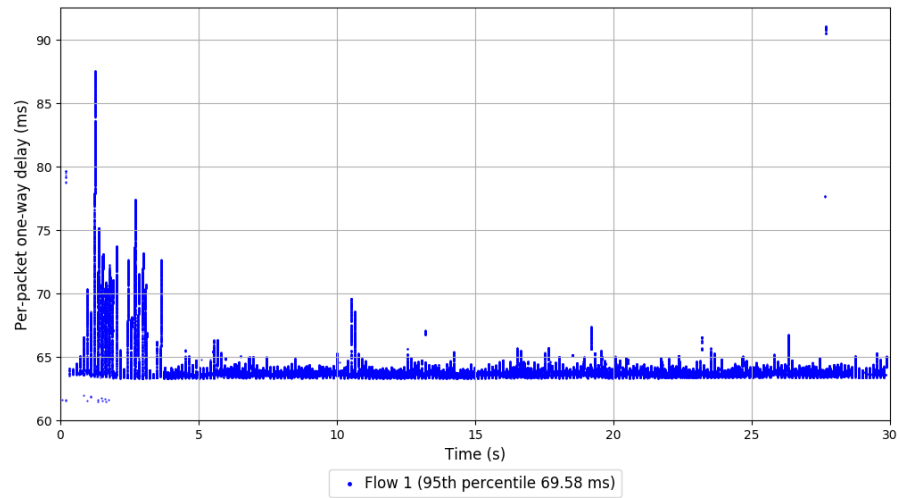
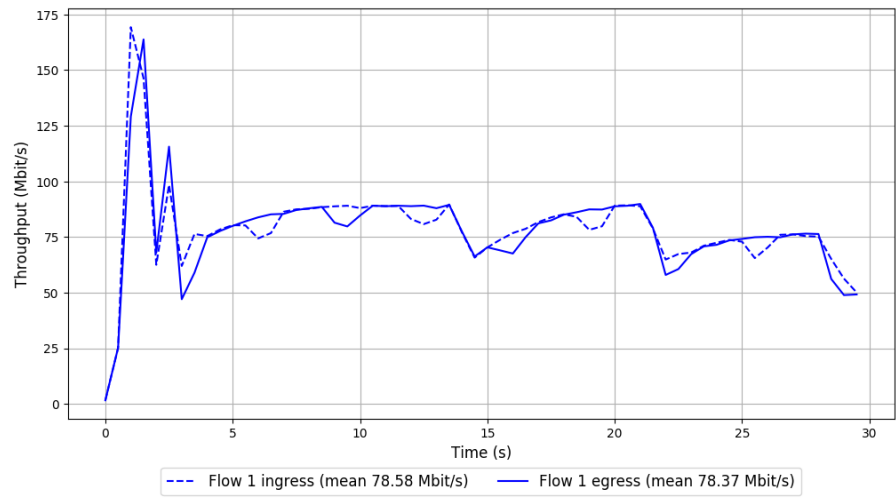
-- Flow 1:

Average throughput: 78.37 Mbit/s

95th percentile per-packet one-way delay: 69.580 ms

Loss rate: 0.68%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-01-16 23:06:40

End at: 2018-01-16 23:07:10

Below is generated by plot.py at 2018-01-17 03:19:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 64.20 Mbit/s

95th percentile per-packet one-way delay: 65.997 ms

Loss rate: 0.98%

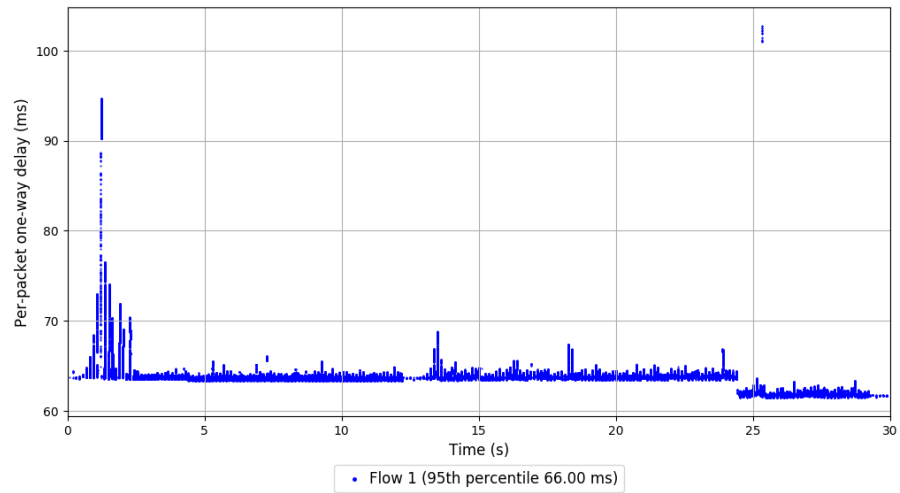
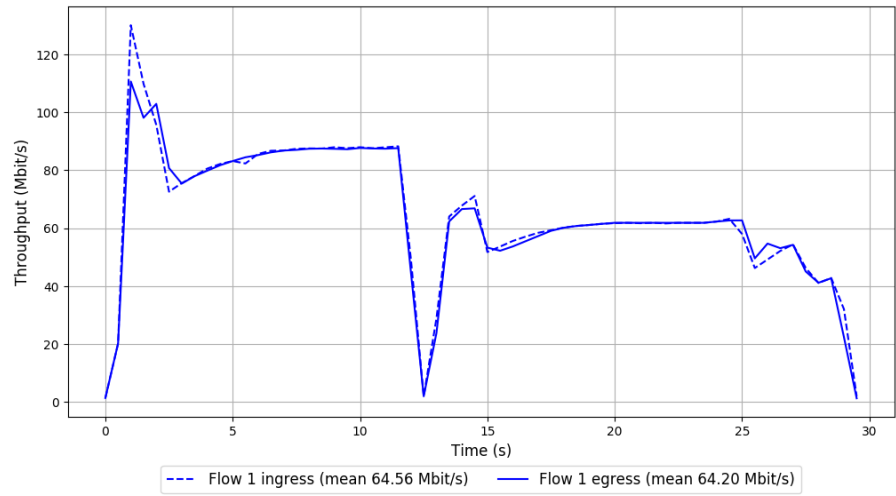
-- Flow 1:

Average throughput: 64.20 Mbit/s

95th percentile per-packet one-way delay: 65.997 ms

Loss rate: 0.98%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-01-16 23:20:53

End at: 2018-01-16 23:21:23

Below is generated by plot.py at 2018-01-17 03:19:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.25 Mbit/s

95th percentile per-packet one-way delay: 68.856 ms

Loss rate: 0.89%

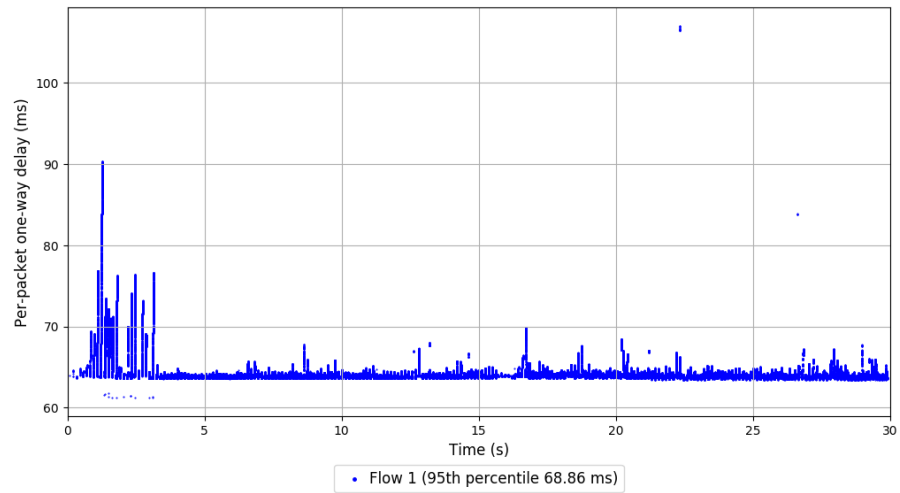
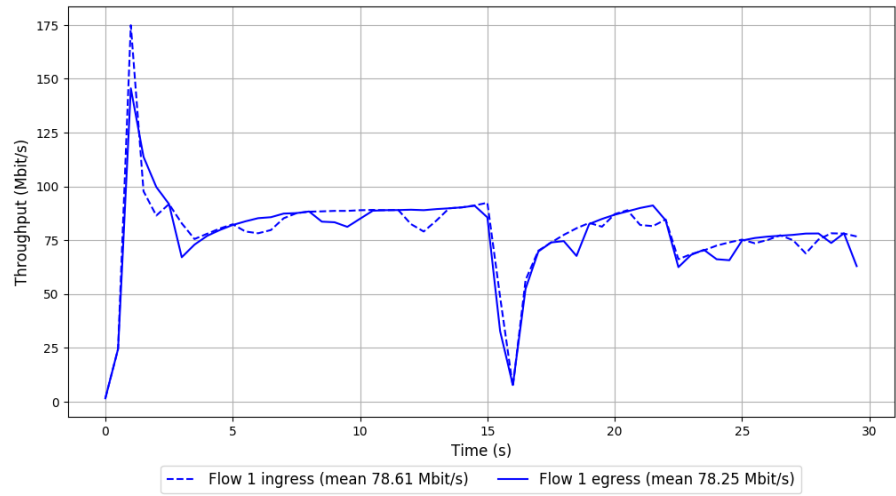
-- Flow 1:

Average throughput: 78.25 Mbit/s

95th percentile per-packet one-way delay: 68.856 ms

Loss rate: 0.89%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-01-16 23:35:14

End at: 2018-01-16 23:35:44

Below is generated by plot.py at 2018-01-17 03:19:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 38.50 Mbit/s

95th percentile per-packet one-way delay: 64.437 ms

Loss rate: 1.57%

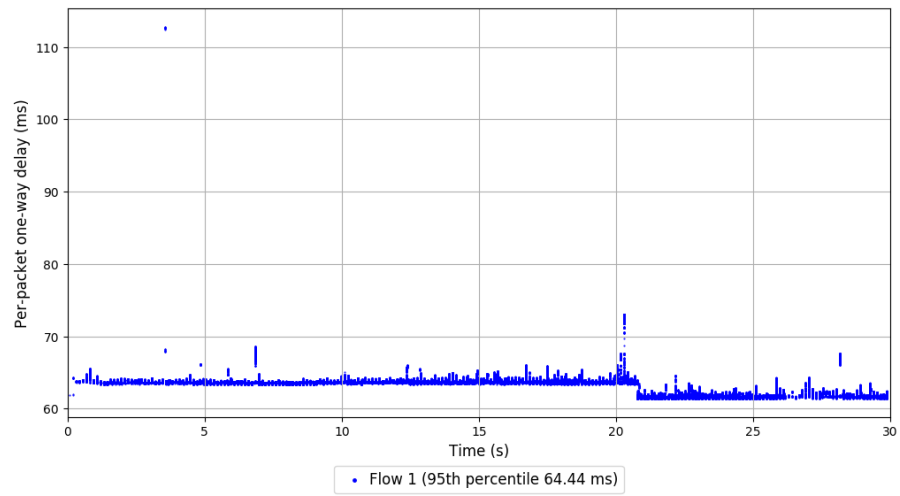
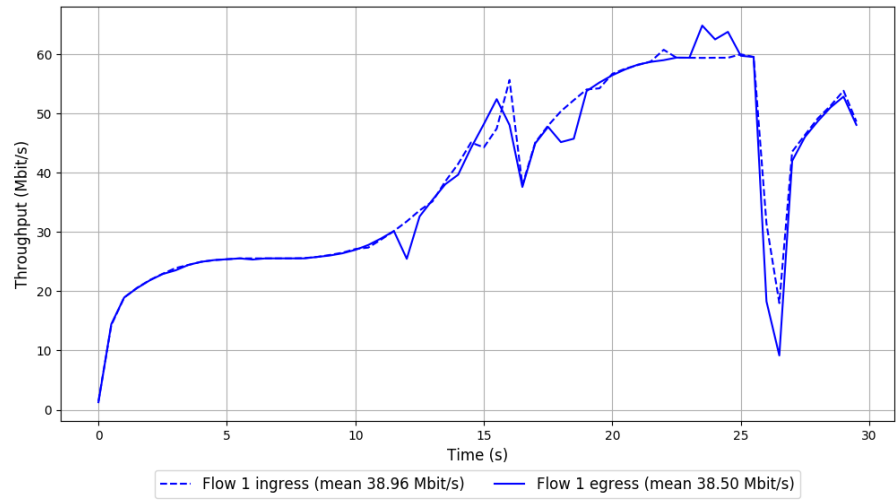
-- Flow 1:

Average throughput: 38.50 Mbit/s

95th percentile per-packet one-way delay: 64.437 ms

Loss rate: 1.57%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-01-16 23:49:13

End at: 2018-01-16 23:49:43

Below is generated by plot.py at 2018-01-17 03:19:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 76.80 Mbit/s

95th percentile per-packet one-way delay: 70.343 ms

Loss rate: 1.27%

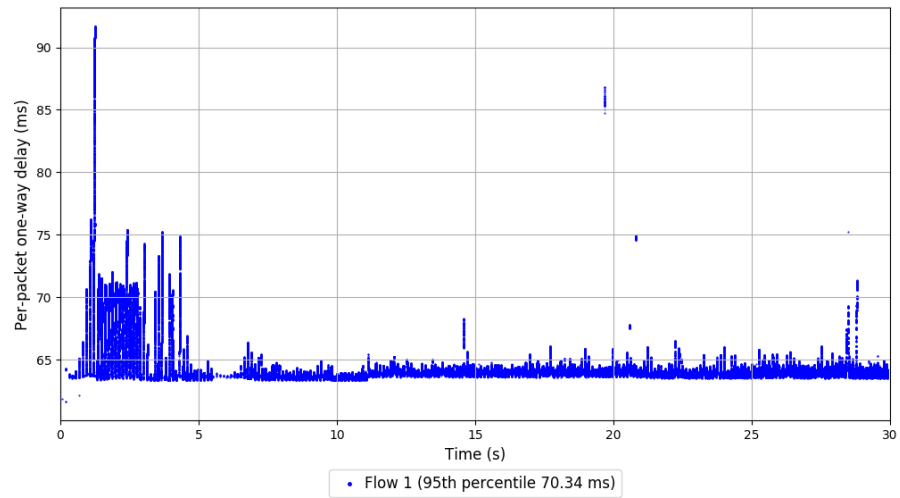
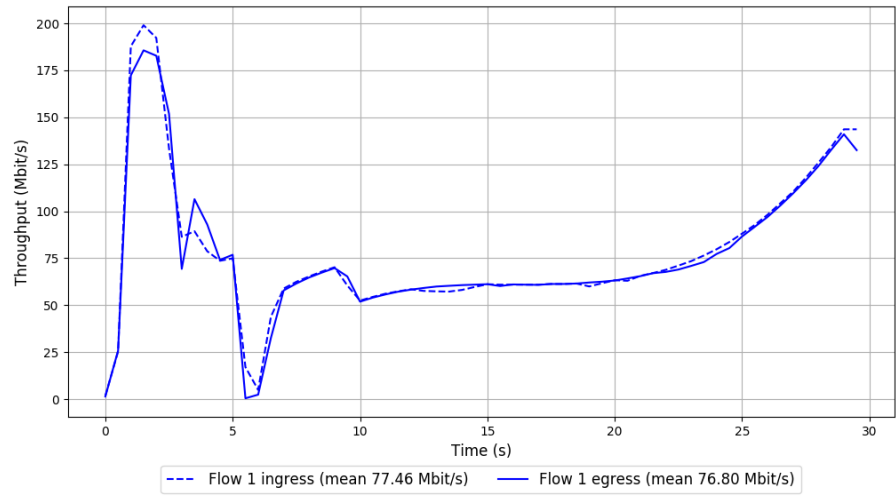
-- Flow 1:

Average throughput: 76.80 Mbit/s

95th percentile per-packet one-way delay: 70.343 ms

Loss rate: 1.27%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-01-17 00:03:30

End at: 2018-01-17 00:04:00

Below is generated by plot.py at 2018-01-17 03:19:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.99 Mbit/s

95th percentile per-packet one-way delay: 68.897 ms

Loss rate: 1.27%

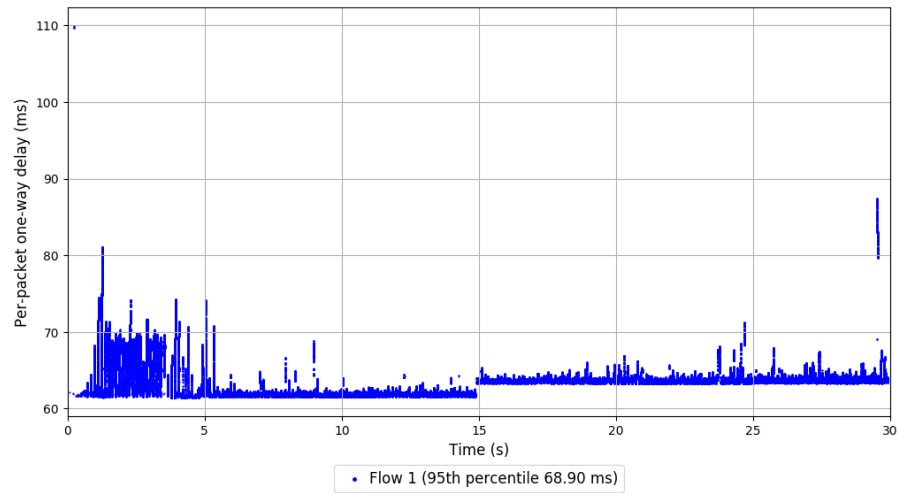
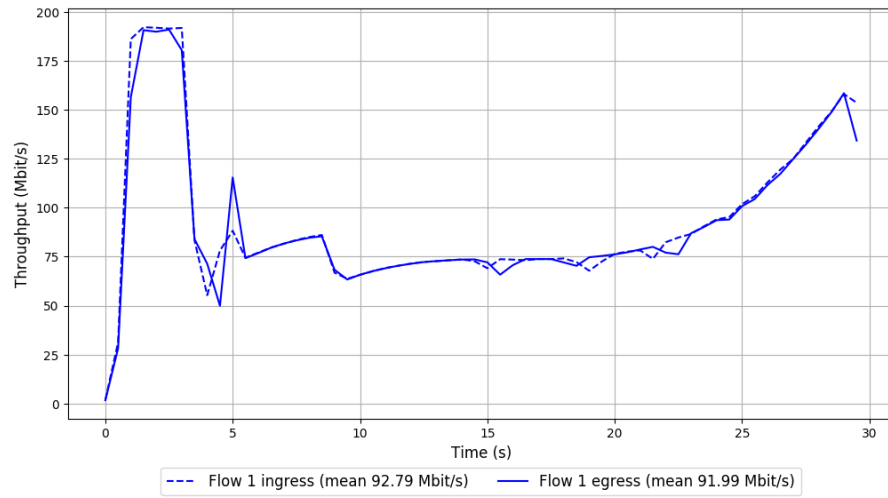
-- Flow 1:

Average throughput: 91.99 Mbit/s

95th percentile per-packet one-way delay: 68.897 ms

Loss rate: 1.27%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-01-17 00:18:04

End at: 2018-01-17 00:18:34

Below is generated by plot.py at 2018-01-17 03:19:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 29.08 Mbit/s

95th percentile per-packet one-way delay: 64.241 ms

Loss rate: 1.30%

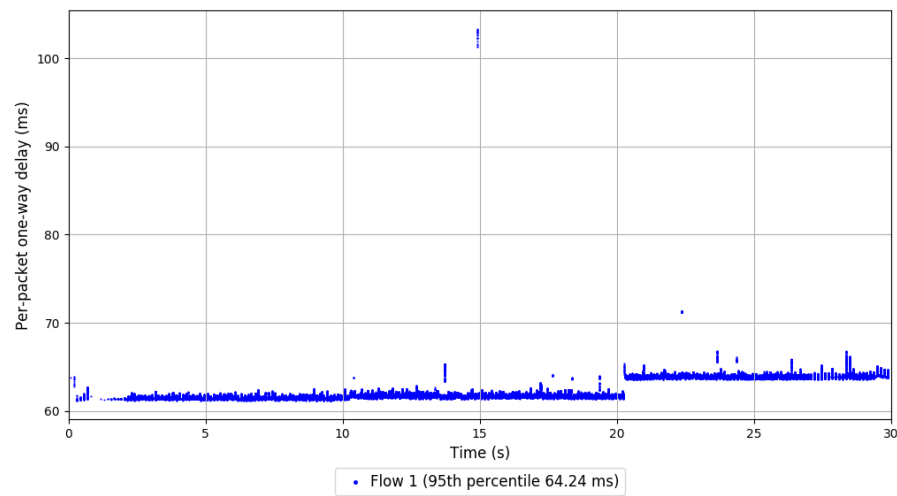
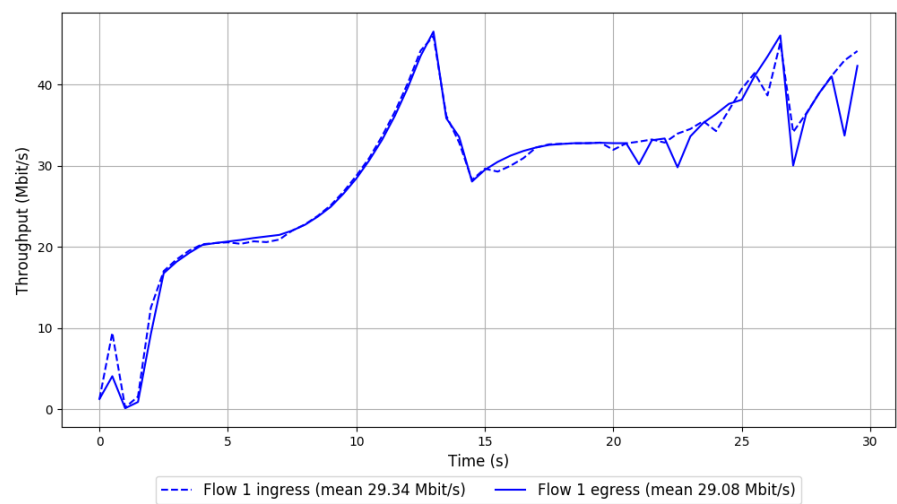
-- Flow 1:

Average throughput: 29.08 Mbit/s

95th percentile per-packet one-way delay: 64.241 ms

Loss rate: 1.30%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-01-17 00:32:24

End at: 2018-01-17 00:32:54

Below is generated by plot.py at 2018-01-17 03:19:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 101.16 Mbit/s

95th percentile per-packet one-way delay: 69.965 ms

Loss rate: 0.47%

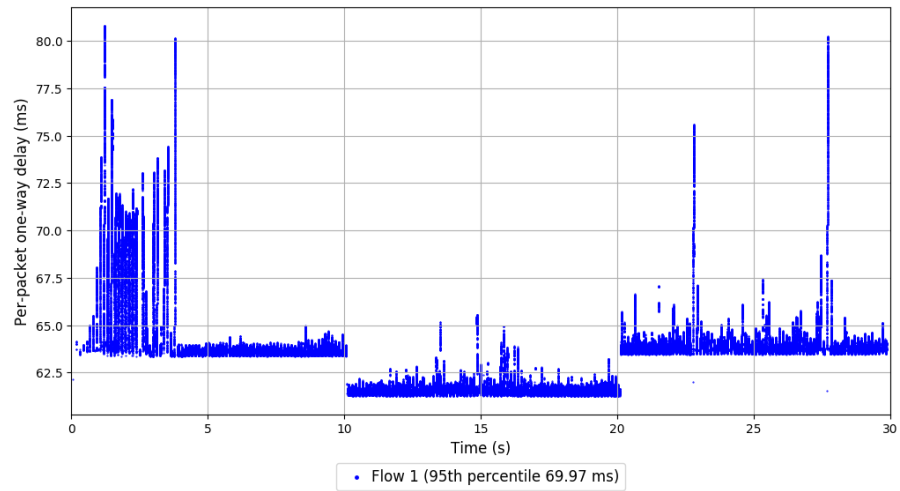
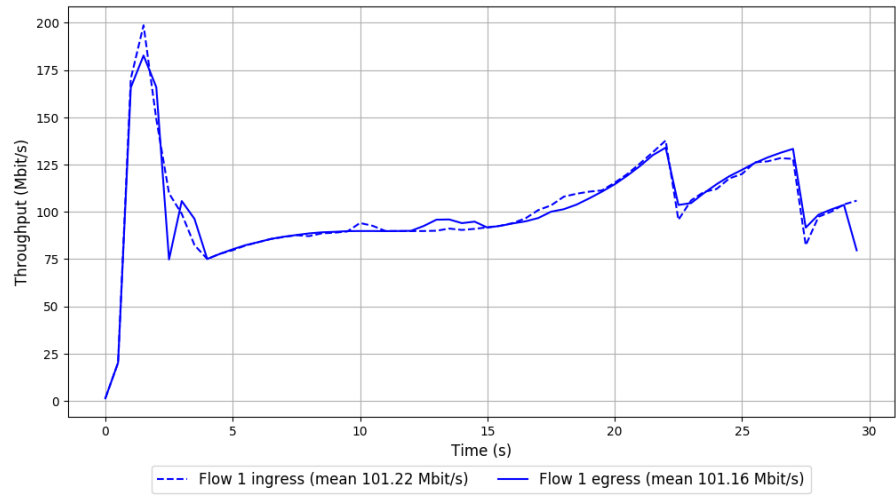
-- Flow 1:

Average throughput: 101.16 Mbit/s

95th percentile per-packet one-way delay: 69.965 ms

Loss rate: 0.47%

Run 10: Report of TCP Cubic — Data Link

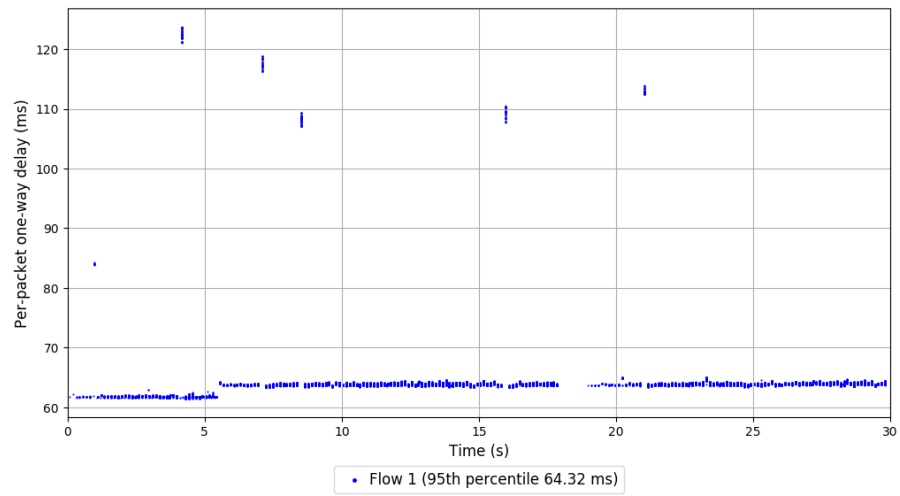
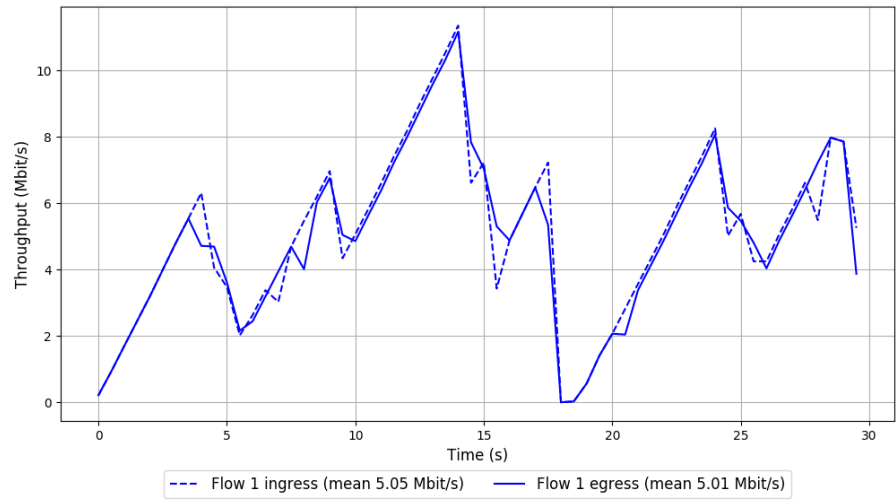


```
Run 1: Statistics of LEDBAT

Start at: 2018-01-16 22:24:09
End at: 2018-01-16 22:24:39

# Below is generated by plot.py at 2018-01-17 03:19:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 5.01 Mbit/s
95th percentile per-packet one-way delay: 64.323 ms
Loss rate: 1.13%
-- Flow 1:
Average throughput: 5.01 Mbit/s
95th percentile per-packet one-way delay: 64.323 ms
Loss rate: 1.13%
```


Run 1: Report of LEDBAT — Data Link

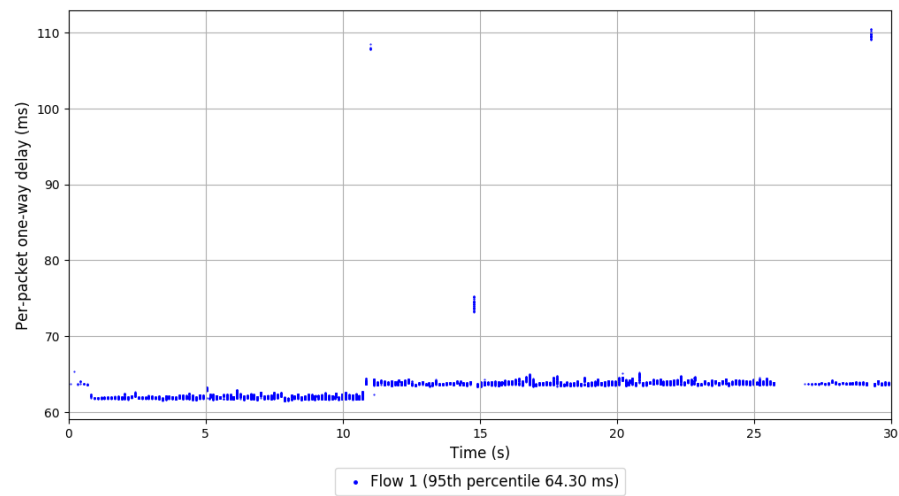
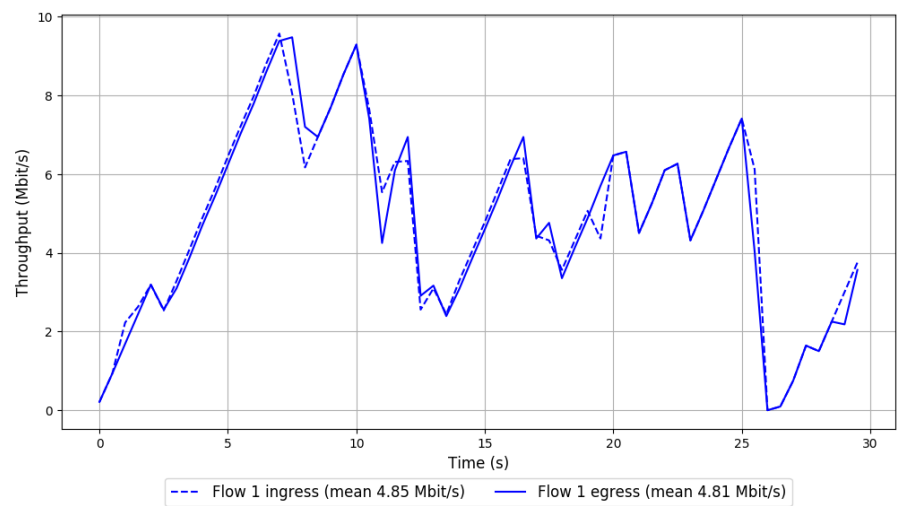


```
Run 2: Statistics of LEDBAT

Start at: 2018-01-16 22:38:44
End at: 2018-01-16 22:39:14

# Below is generated by plot.py at 2018-01-17 03:19:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 4.81 Mbit/s
95th percentile per-packet one-way delay: 64.299 ms
Loss rate: 1.09%
-- Flow 1:
Average throughput: 4.81 Mbit/s
95th percentile per-packet one-way delay: 64.299 ms
Loss rate: 1.09%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-01-16 22:52:55

End at: 2018-01-16 22:53:25

Below is generated by plot.py at 2018-01-17 03:19:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.66 Mbit/s

95th percentile per-packet one-way delay: 64.322 ms

Loss rate: 1.15%

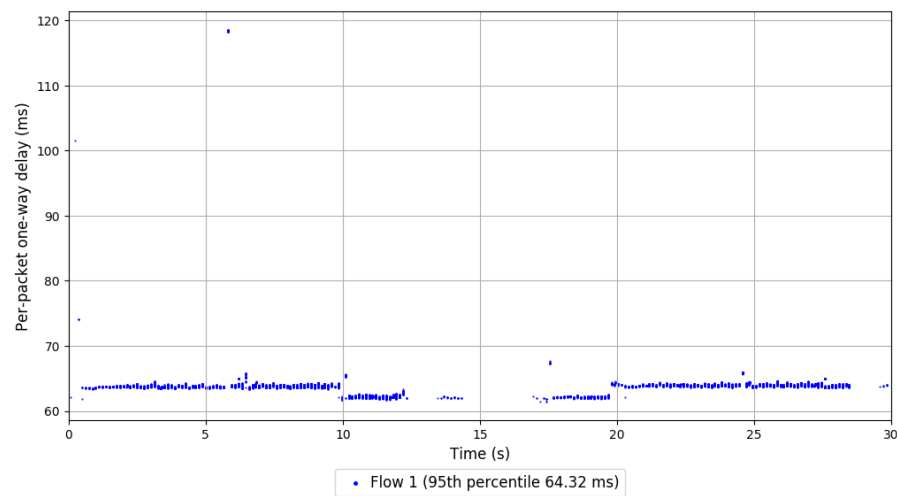
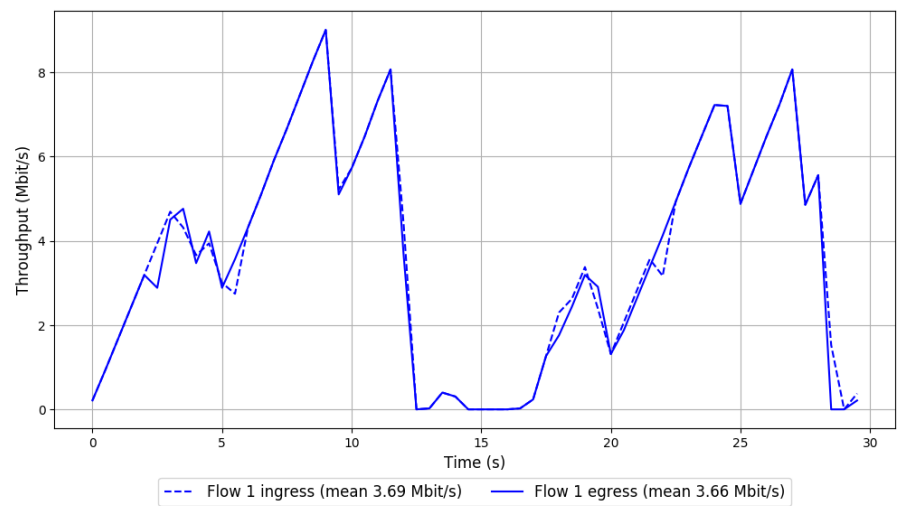
-- Flow 1:

Average throughput: 3.66 Mbit/s

95th percentile per-packet one-way delay: 64.322 ms

Loss rate: 1.15%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-01-16 23:07:21

End at: 2018-01-16 23:07:51

Below is generated by plot.py at 2018-01-17 03:19:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.44 Mbit/s

95th percentile per-packet one-way delay: 64.253 ms

Loss rate: 2.14%

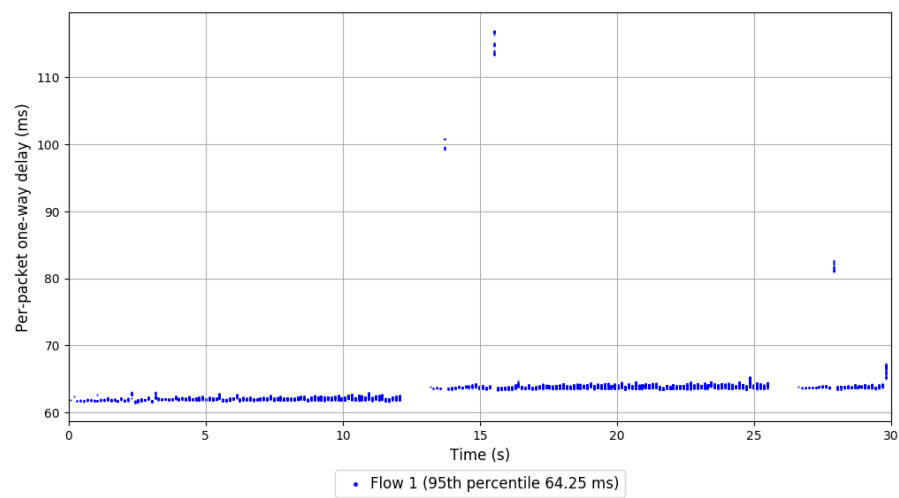
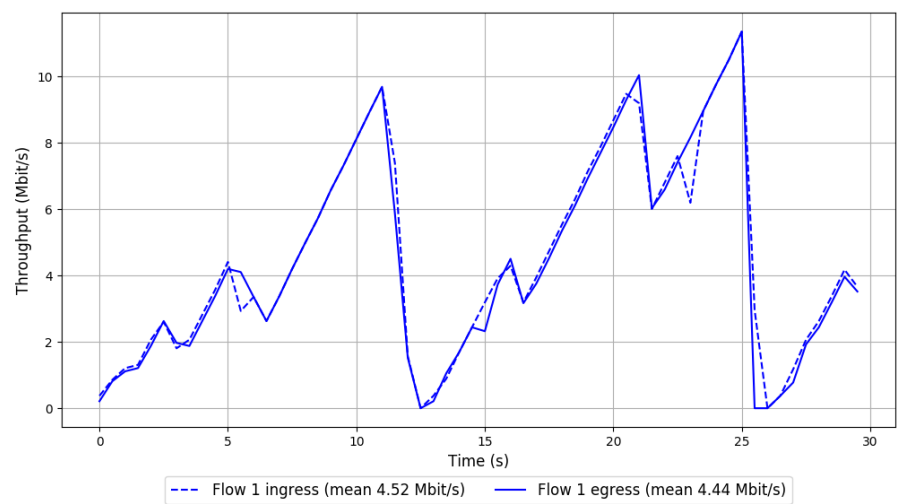
-- Flow 1:

Average throughput: 4.44 Mbit/s

95th percentile per-packet one-way delay: 64.253 ms

Loss rate: 2.14%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-01-16 23:21:35

End at: 2018-01-16 23:22:05

Below is generated by plot.py at 2018-01-17 03:19:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.34 Mbit/s

95th percentile per-packet one-way delay: 64.407 ms

Loss rate: 1.93%

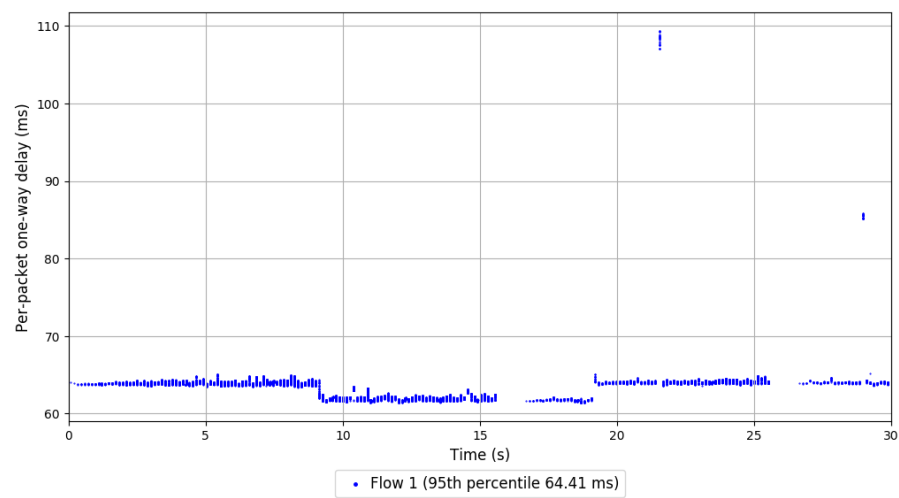
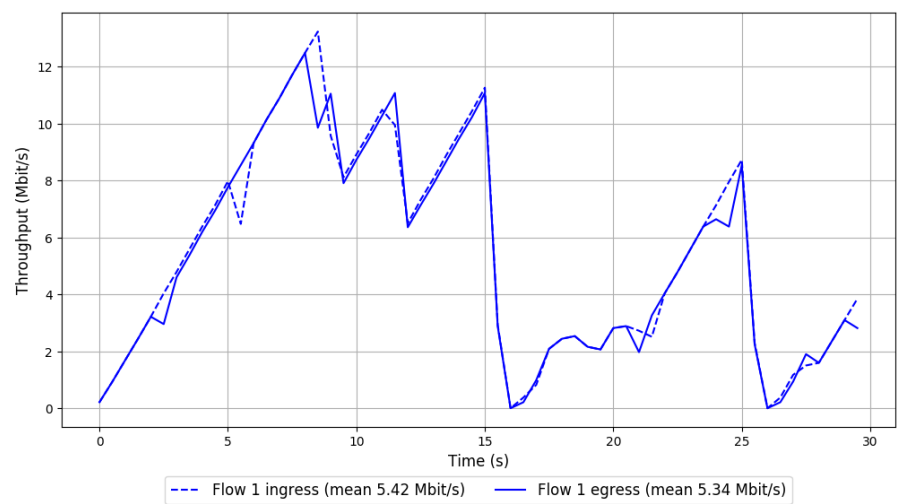
-- Flow 1:

Average throughput: 5.34 Mbit/s

95th percentile per-packet one-way delay: 64.407 ms

Loss rate: 1.93%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-01-16 23:35:54

End at: 2018-01-16 23:36:24

Below is generated by plot.py at 2018-01-17 03:19:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.39 Mbit/s

95th percentile per-packet one-way delay: 64.386 ms

Loss rate: 1.79%

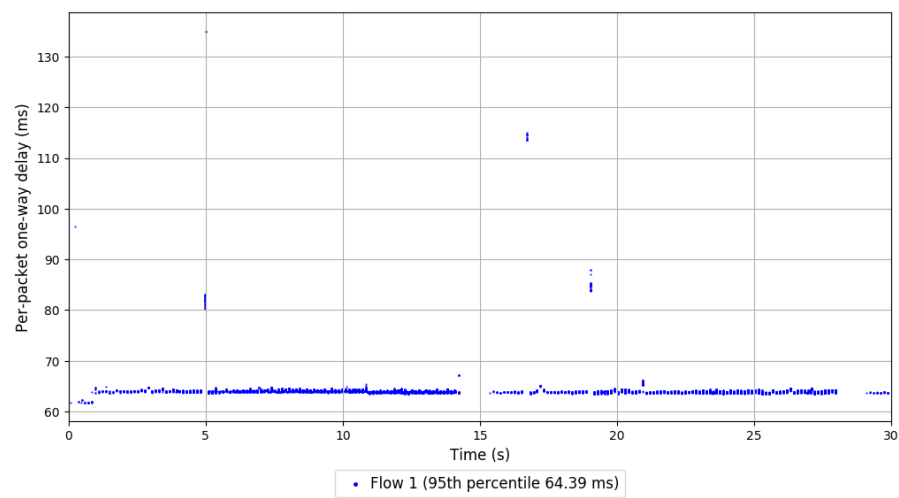
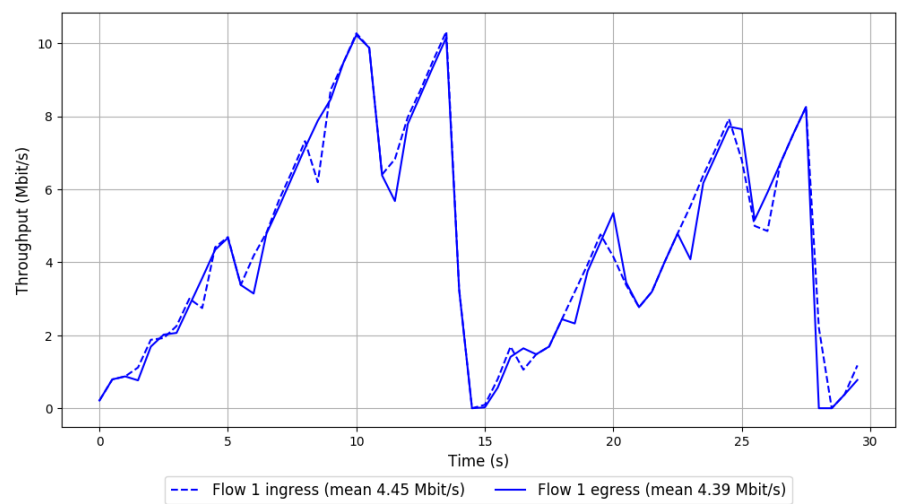
-- Flow 1:

Average throughput: 4.39 Mbit/s

95th percentile per-packet one-way delay: 64.386 ms

Loss rate: 1.79%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-01-16 23:49:55

End at: 2018-01-16 23:50:25

Below is generated by plot.py at 2018-01-17 03:19:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.57 Mbit/s

95th percentile per-packet one-way delay: 64.501 ms

Loss rate: 1.12%

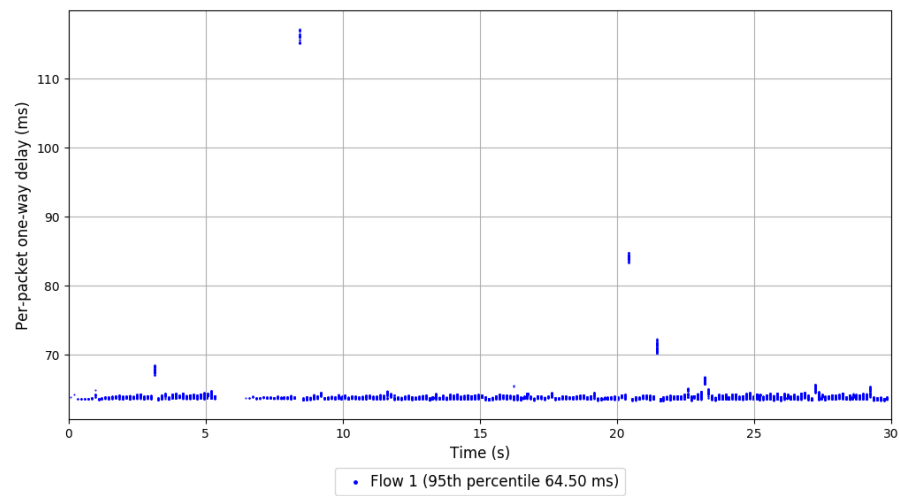
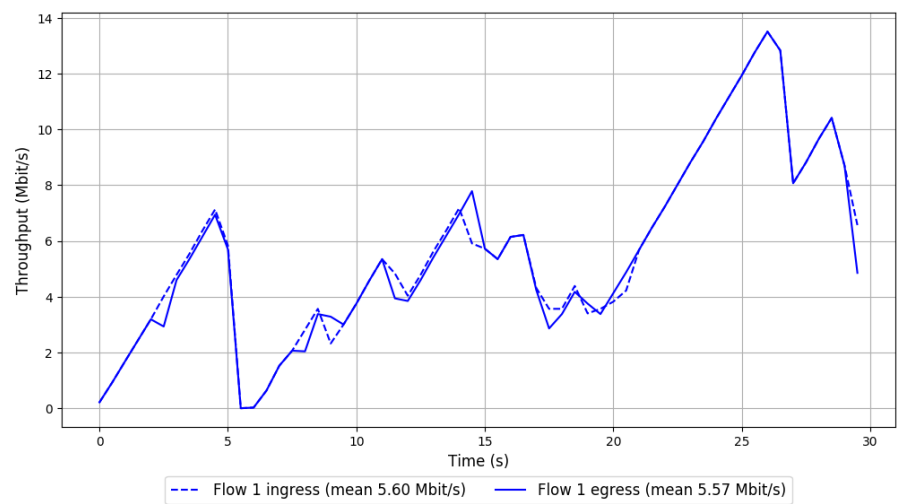
-- Flow 1:

Average throughput: 5.57 Mbit/s

95th percentile per-packet one-way delay: 64.501 ms

Loss rate: 1.12%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-01-17 00:04:12

End at: 2018-01-17 00:04:42

Below is generated by plot.py at 2018-01-17 03:19:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.02 Mbit/s

95th percentile per-packet one-way delay: 64.220 ms

Loss rate: 1.29%

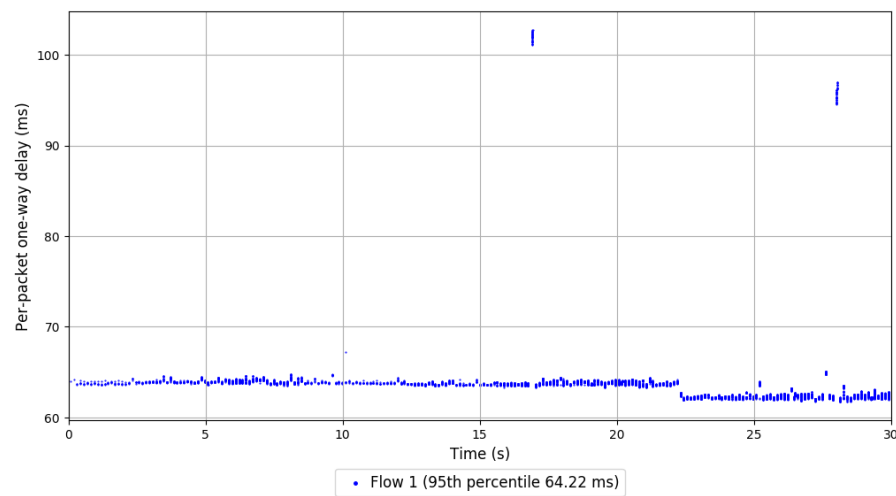
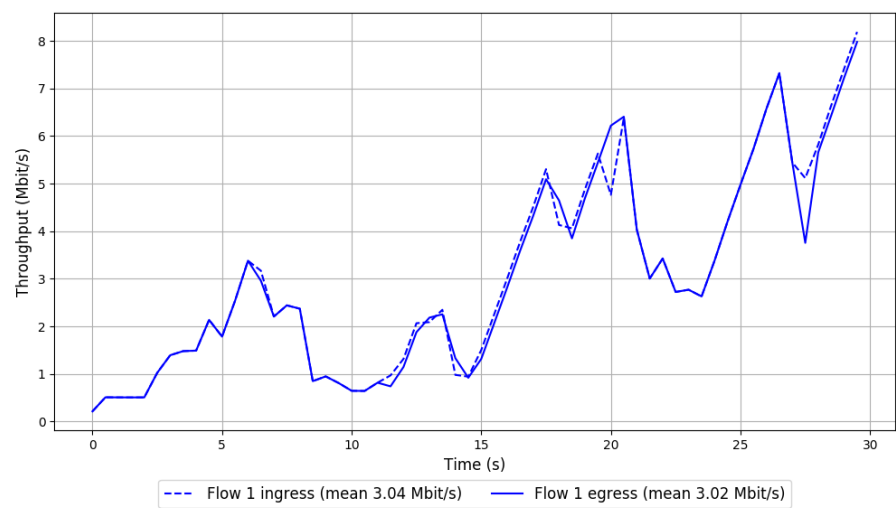
-- Flow 1:

Average throughput: 3.02 Mbit/s

95th percentile per-packet one-way delay: 64.220 ms

Loss rate: 1.29%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-01-17 00:18:44

End at: 2018-01-17 00:19:14

Below is generated by plot.py at 2018-01-17 03:19:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.49 Mbit/s

95th percentile per-packet one-way delay: 64.416 ms

Loss rate: 1.02%

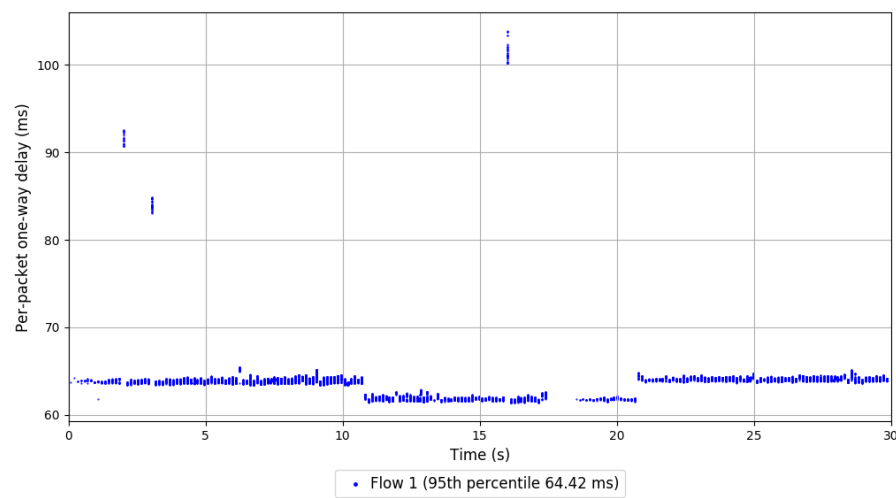
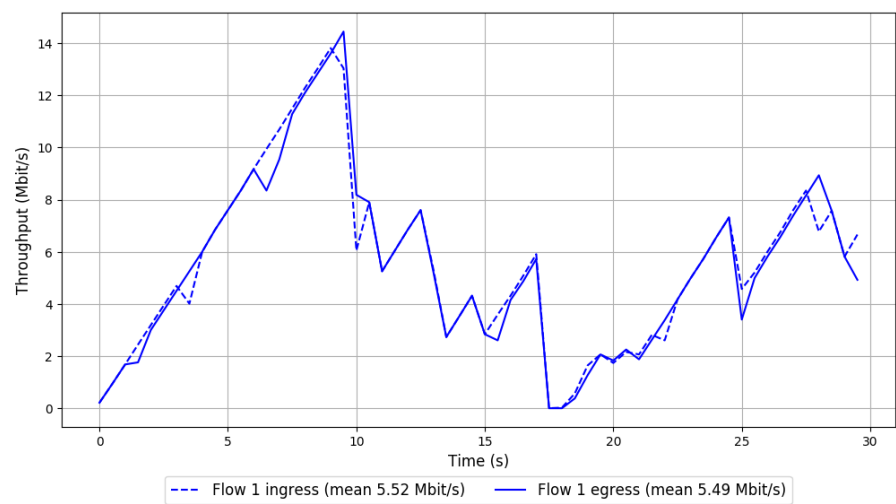
-- Flow 1:

Average throughput: 5.49 Mbit/s

95th percentile per-packet one-way delay: 64.416 ms

Loss rate: 1.02%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-01-17 00:33:08

End at: 2018-01-17 00:33:38

Below is generated by plot.py at 2018-01-17 03:19:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.03 Mbit/s

95th percentile per-packet one-way delay: 64.538 ms

Loss rate: 1.59%

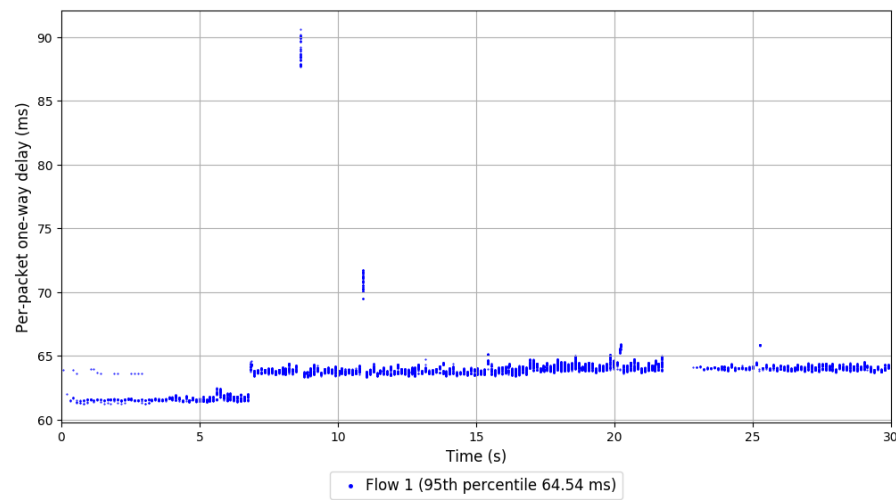
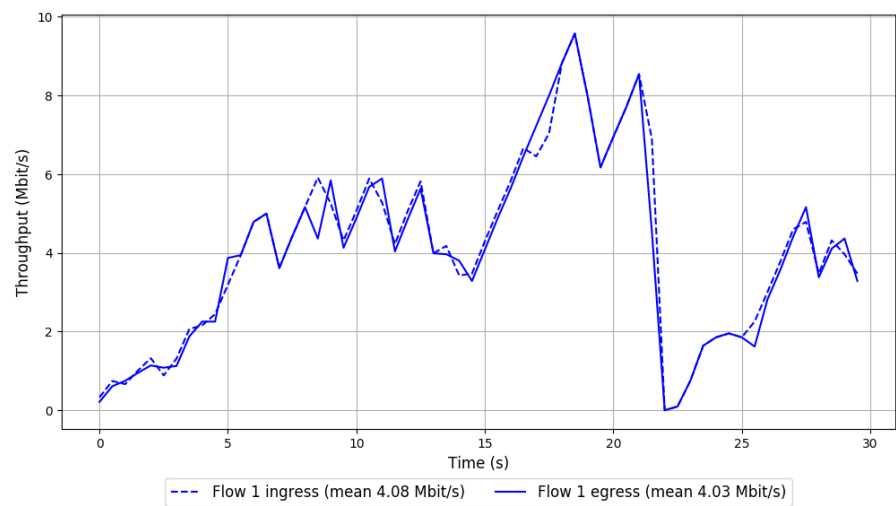
-- Flow 1:

Average throughput: 4.03 Mbit/s

95th percentile per-packet one-way delay: 64.538 ms

Loss rate: 1.59%

Run 10: Report of LEDBAT — Data Link

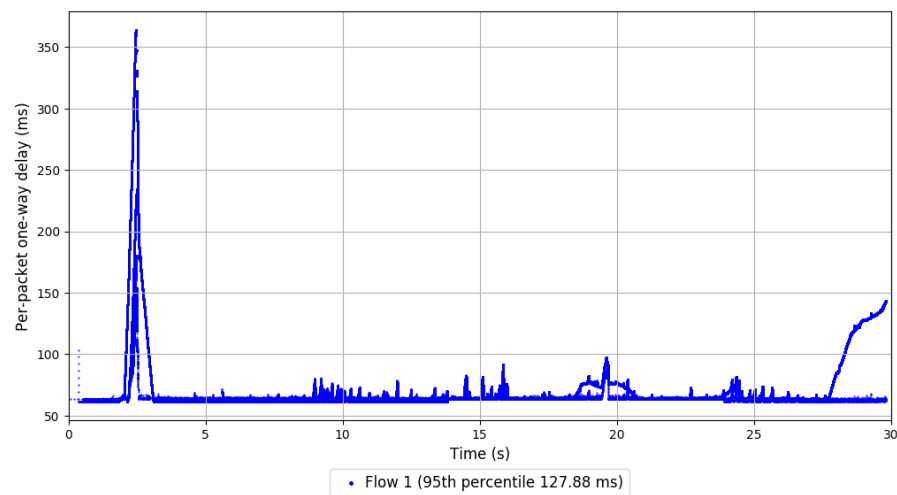
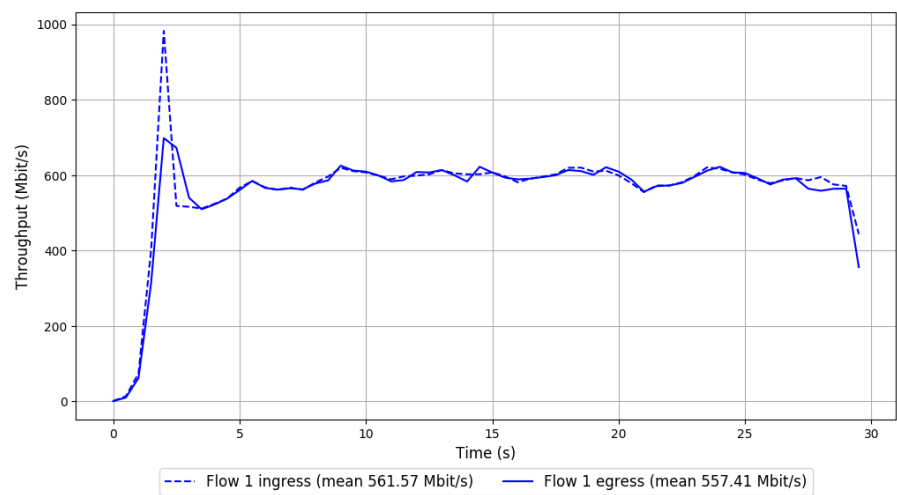


```
Run 1: Statistics of PCC

Start at: 2018-01-16 22:32:50
End at: 2018-01-16 22:33:20

# Below is generated by plot.py at 2018-01-17 03:28:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 557.41 Mbit/s
95th percentile per-packet one-way delay: 127.883 ms
Loss rate: 1.17%
-- Flow 1:
Average throughput: 557.41 Mbit/s
95th percentile per-packet one-way delay: 127.883 ms
Loss rate: 1.17%
```

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2018-01-16 22:47:19

End at: 2018-01-16 22:47:49

Below is generated by plot.py at 2018-01-17 03:28:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 540.96 Mbit/s

95th percentile per-packet one-way delay: 127.546 ms

Loss rate: 1.15%

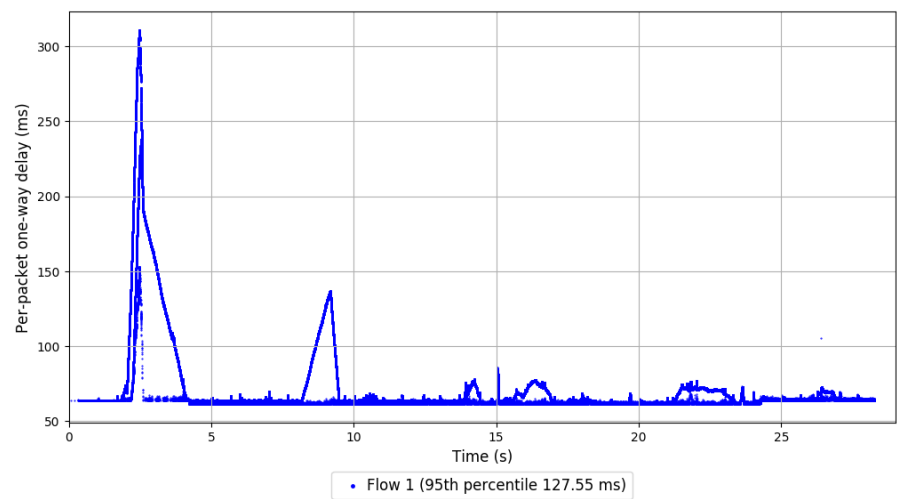
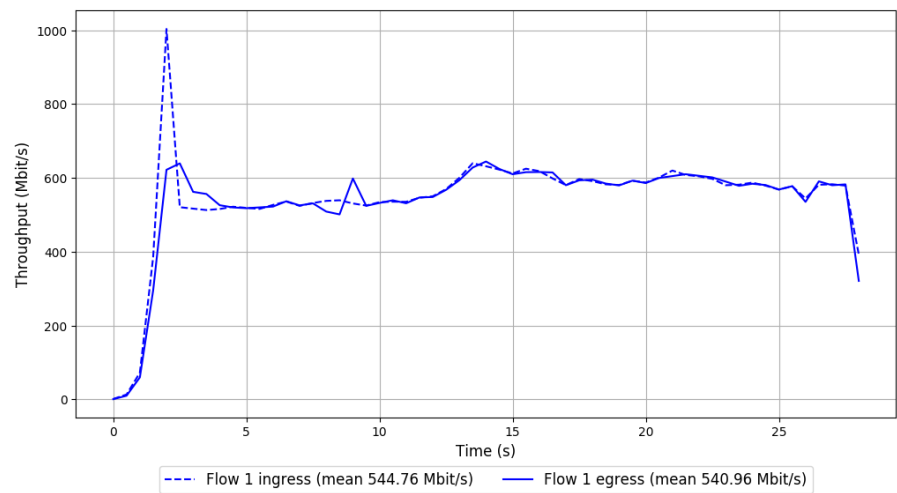
-- Flow 1:

Average throughput: 540.96 Mbit/s

95th percentile per-packet one-way delay: 127.546 ms

Loss rate: 1.15%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2018-01-16 23:01:55

End at: 2018-01-16 23:02:26

Below is generated by plot.py at 2018-01-17 03:28:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 550.35 Mbit/s

95th percentile per-packet one-way delay: 184.851 ms

Loss rate: 1.09%

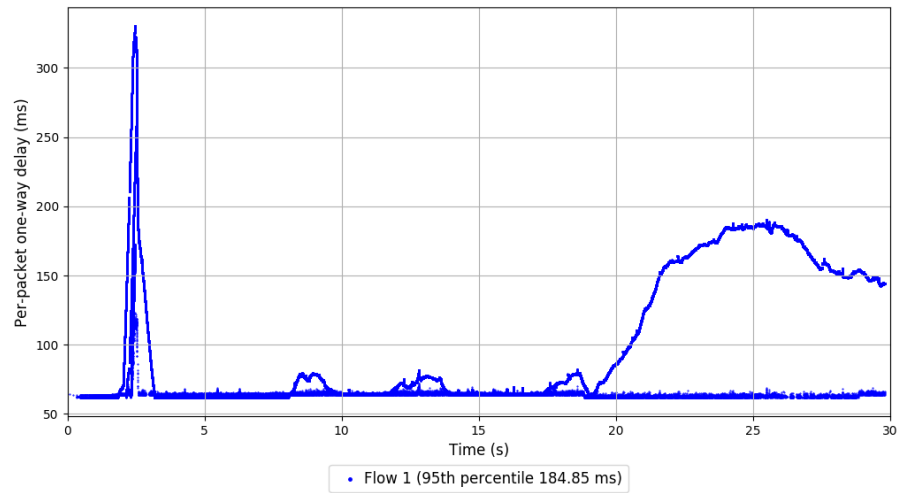
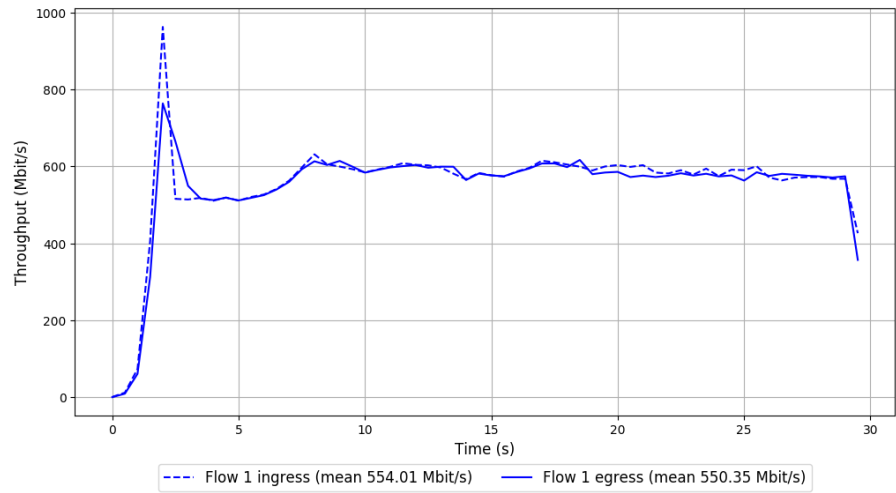
-- Flow 1:

Average throughput: 550.35 Mbit/s

95th percentile per-packet one-way delay: 184.851 ms

Loss rate: 1.09%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2018-01-16 23:15:55

End at: 2018-01-16 23:16:25

Below is generated by plot.py at 2018-01-17 03:28:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 449.33 Mbit/s

95th percentile per-packet one-way delay: 133.966 ms

Loss rate: 1.09%

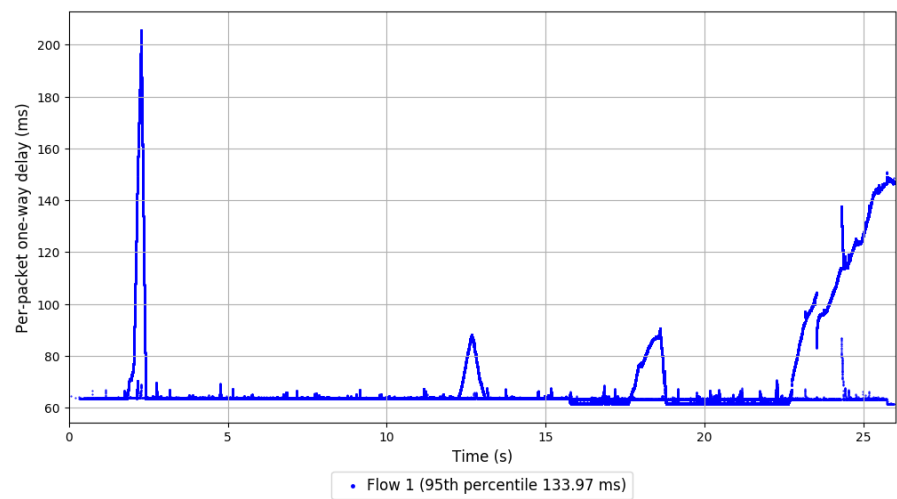
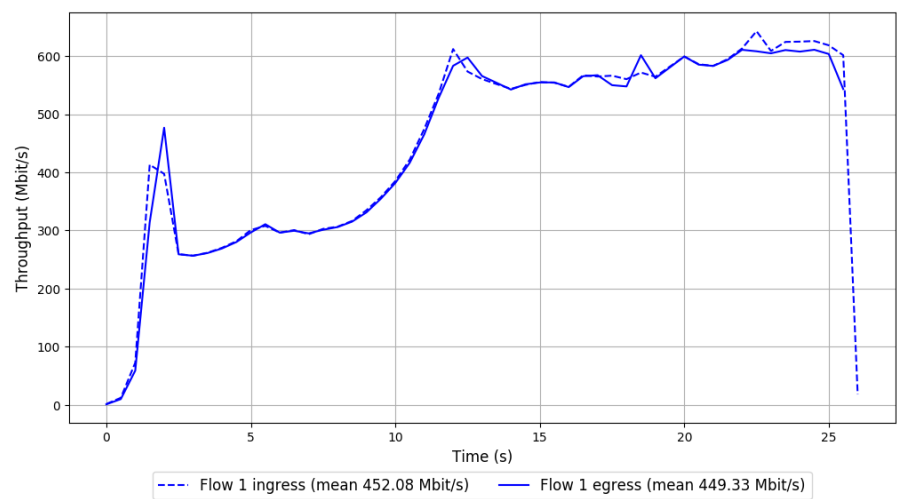
-- Flow 1:

Average throughput: 449.33 Mbit/s

95th percentile per-packet one-way delay: 133.966 ms

Loss rate: 1.09%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2018-01-16 23:30:14

End at: 2018-01-16 23:30:44

Below is generated by plot.py at 2018-01-17 03:28:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 499.95 Mbit/s

95th percentile per-packet one-way delay: 182.130 ms

Loss rate: 1.11%

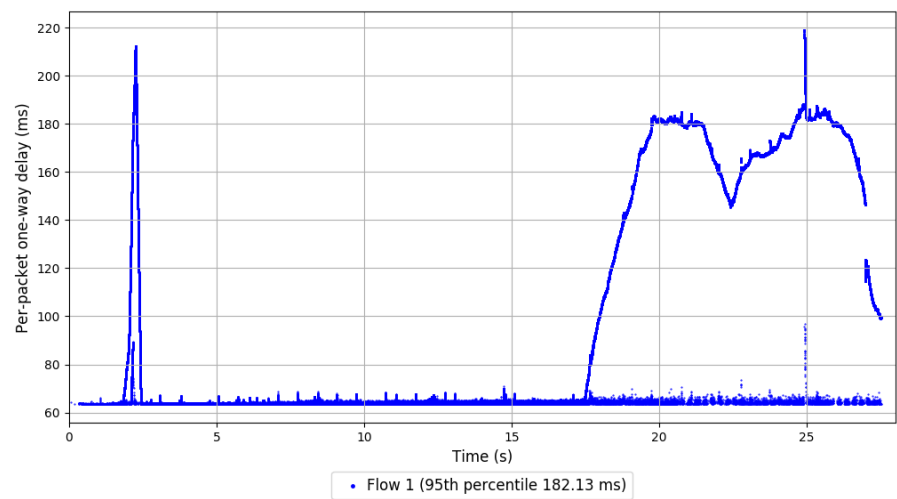
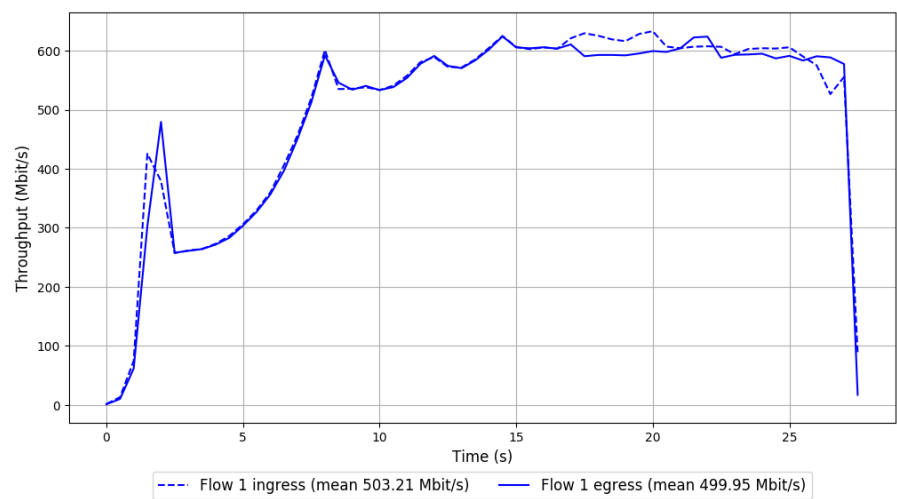
-- Flow 1:

Average throughput: 499.95 Mbit/s

95th percentile per-packet one-way delay: 182.130 ms

Loss rate: 1.11%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2018-01-16 23:44:32

End at: 2018-01-16 23:45:02

Below is generated by plot.py at 2018-01-17 03:28:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 529.10 Mbit/s

95th percentile per-packet one-way delay: 180.456 ms

Loss rate: 1.25%

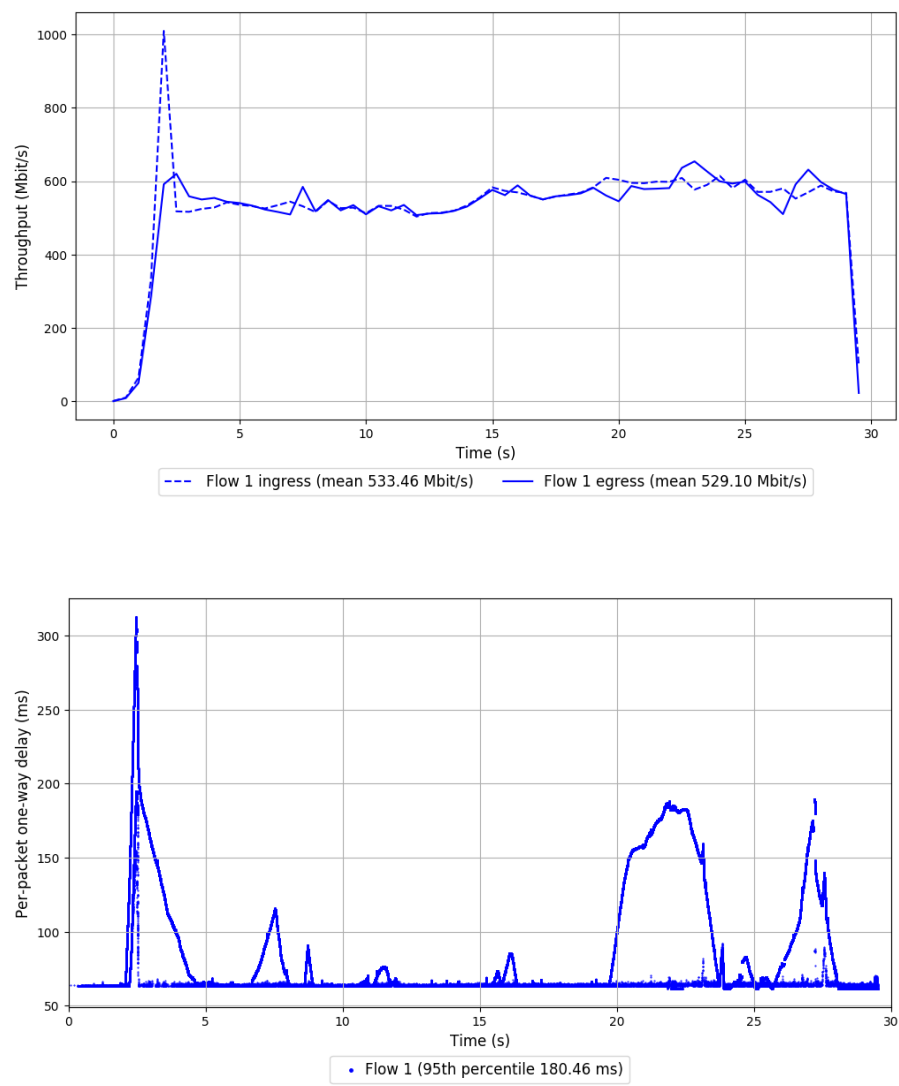
-- Flow 1:

Average throughput: 529.10 Mbit/s

95th percentile per-packet one-way delay: 180.456 ms

Loss rate: 1.25%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2018-01-16 23:58:52

End at: 2018-01-16 23:59:22

Below is generated by plot.py at 2018-01-17 03:28:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 498.85 Mbit/s

95th percentile per-packet one-way delay: 85.526 ms

Loss rate: 0.52%

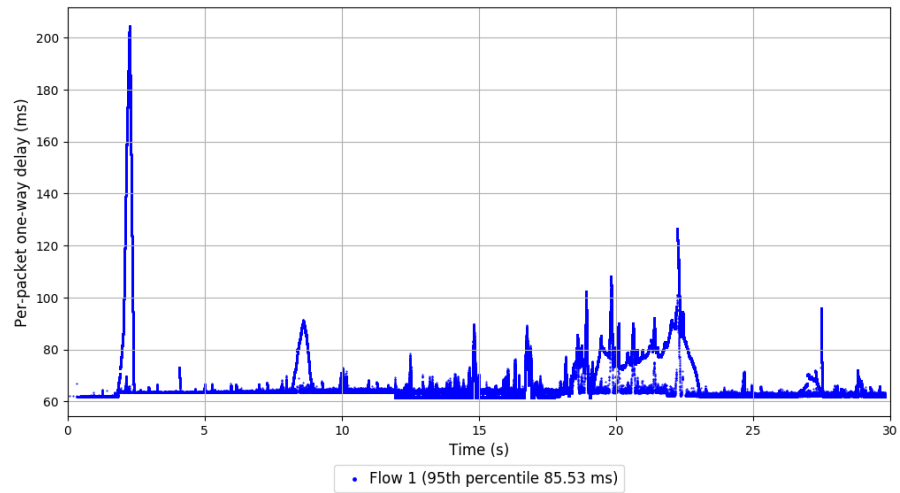
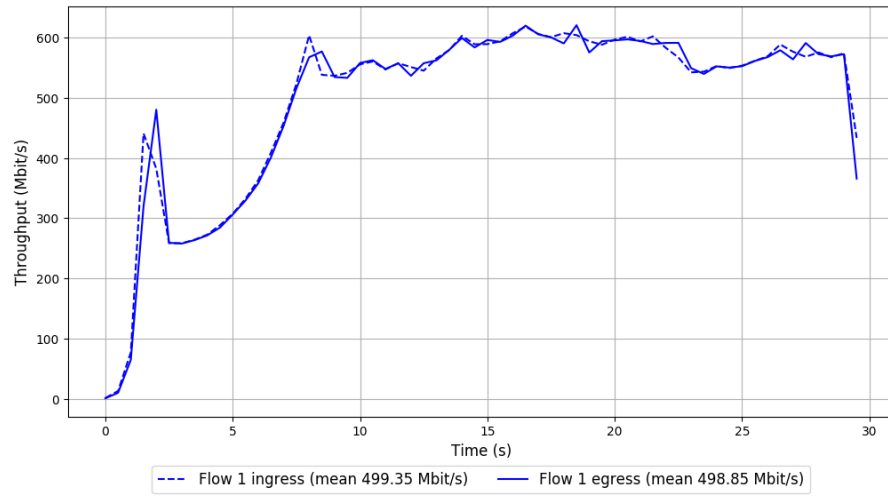
-- Flow 1:

Average throughput: 498.85 Mbit/s

95th percentile per-packet one-way delay: 85.526 ms

Loss rate: 0.52%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2018-01-17 00:13:00

End at: 2018-01-17 00:13:30

Below is generated by plot.py at 2018-01-17 03:28:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 509.35 Mbit/s

95th percentile per-packet one-way delay: 92.537 ms

Loss rate: 0.56%

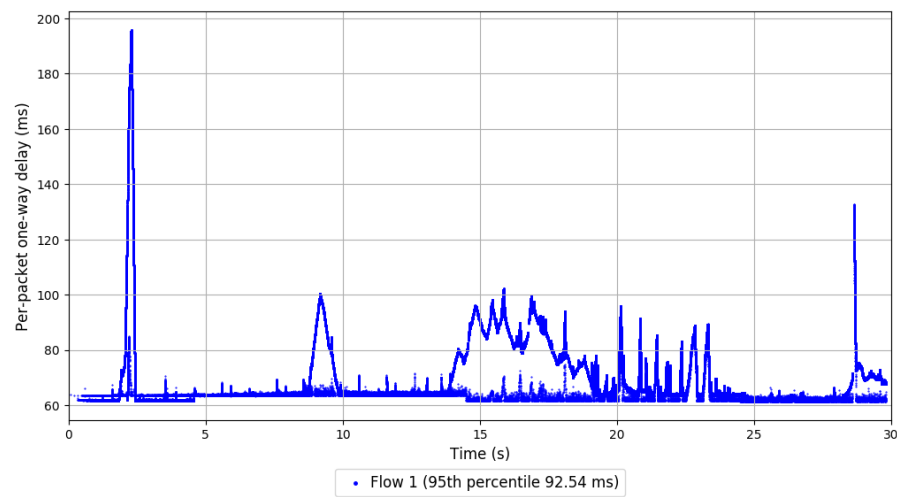
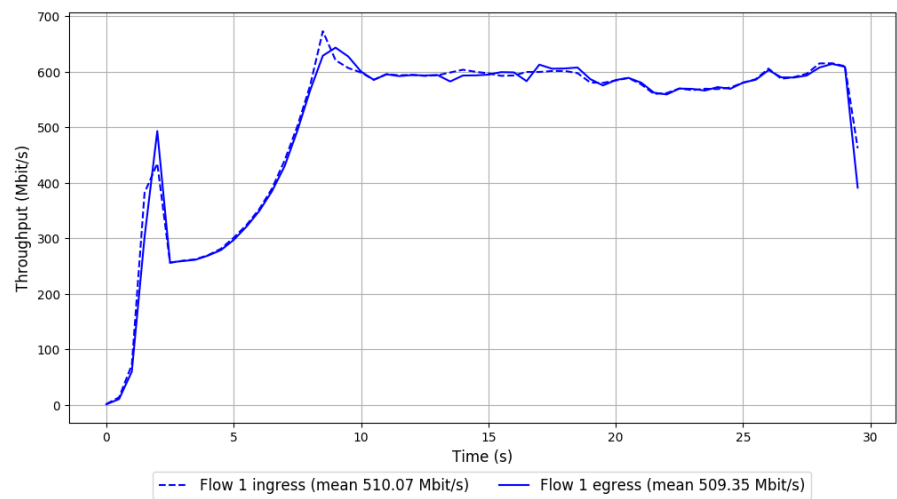
-- Flow 1:

Average throughput: 509.35 Mbit/s

95th percentile per-packet one-way delay: 92.537 ms

Loss rate: 0.56%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2018-01-17 00:27:16

End at: 2018-01-17 00:27:46

Below is generated by plot.py at 2018-01-17 03:32:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 418.01 Mbit/s

95th percentile per-packet one-way delay: 92.396 ms

Loss rate: 0.90%

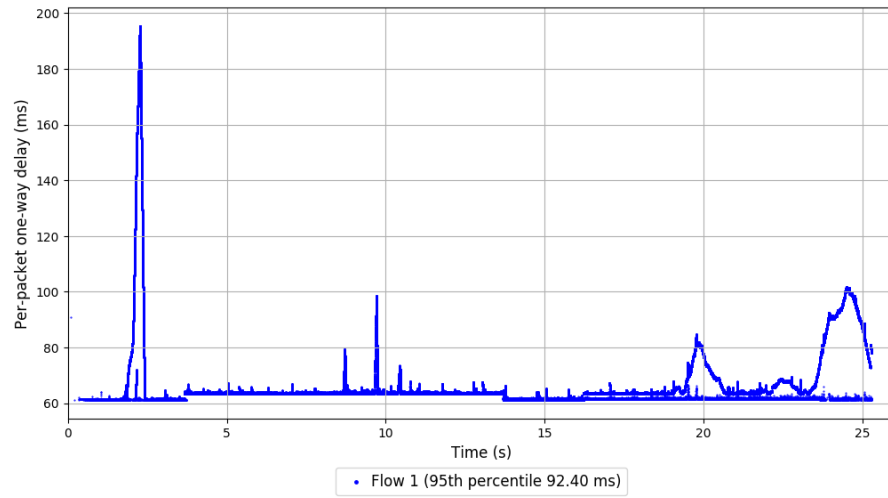
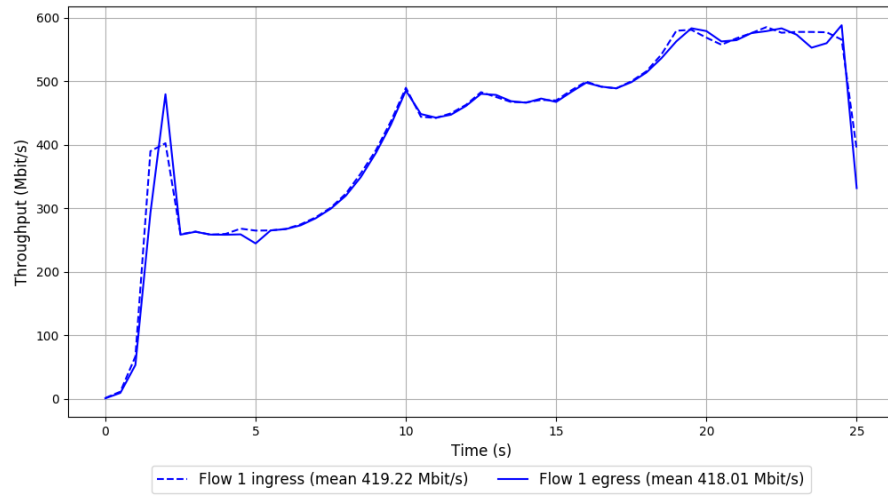
-- Flow 1:

Average throughput: 418.01 Mbit/s

95th percentile per-packet one-way delay: 92.396 ms

Loss rate: 0.90%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2018-01-17 00:41:41

End at: 2018-01-17 00:42:11

Below is generated by plot.py at 2018-01-17 03:36:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 490.55 Mbit/s

95th percentile per-packet one-way delay: 111.141 ms

Loss rate: 0.97%

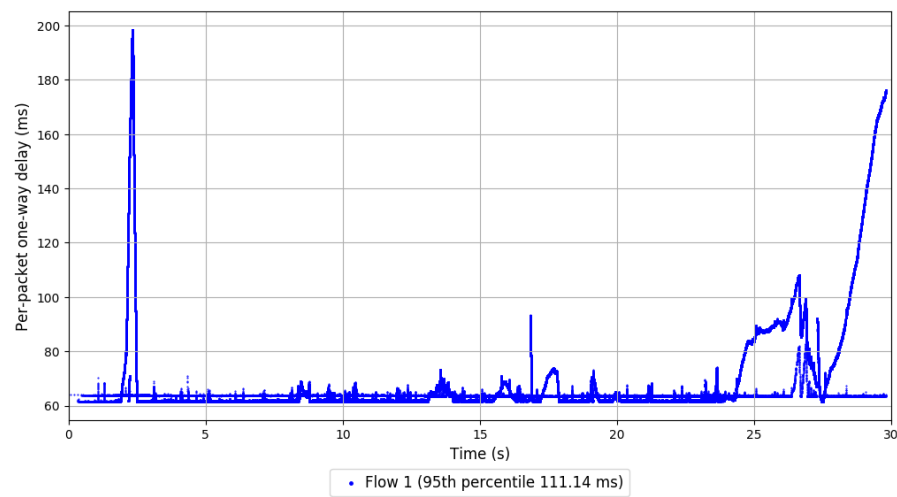
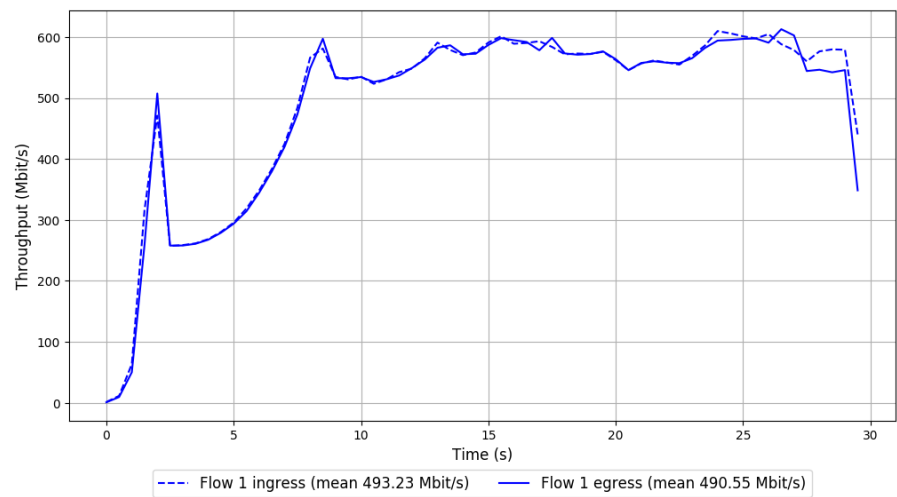
-- Flow 1:

Average throughput: 490.55 Mbit/s

95th percentile per-packet one-way delay: 111.141 ms

Loss rate: 0.97%

Run 10: Report of PCC — Data Link

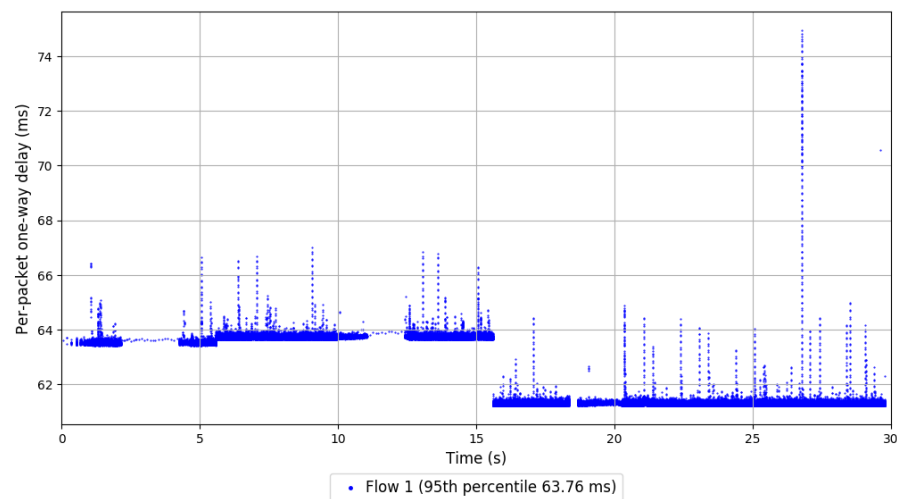
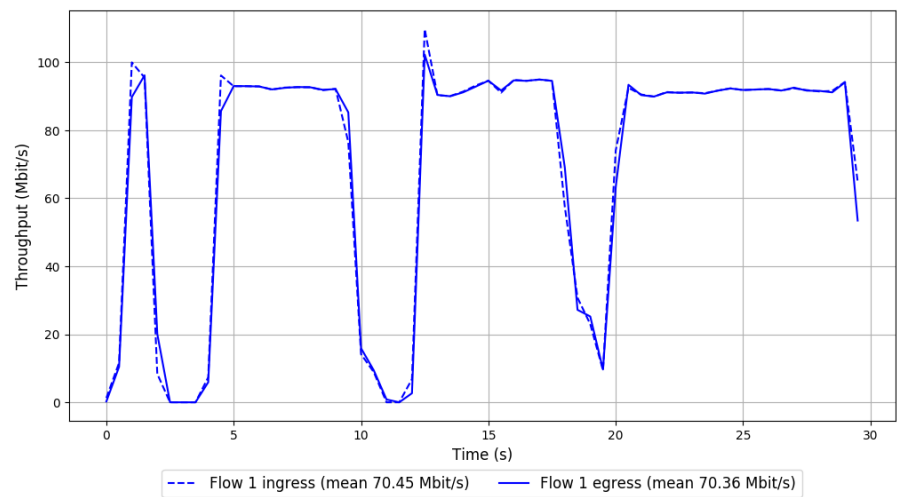


```
Run 1: Statistics of QUIC Cubic

Start at: 2018-01-16 22:32:09
End at: 2018-01-16 22:32:39

# Below is generated by plot.py at 2018-01-17 03:36:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 70.36 Mbit/s
95th percentile per-packet one-way delay: 63.763 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 70.36 Mbit/s
95th percentile per-packet one-way delay: 63.763 ms
Loss rate: 0.55%
```


Run 1: Report of QUIC Cubic — Data Link

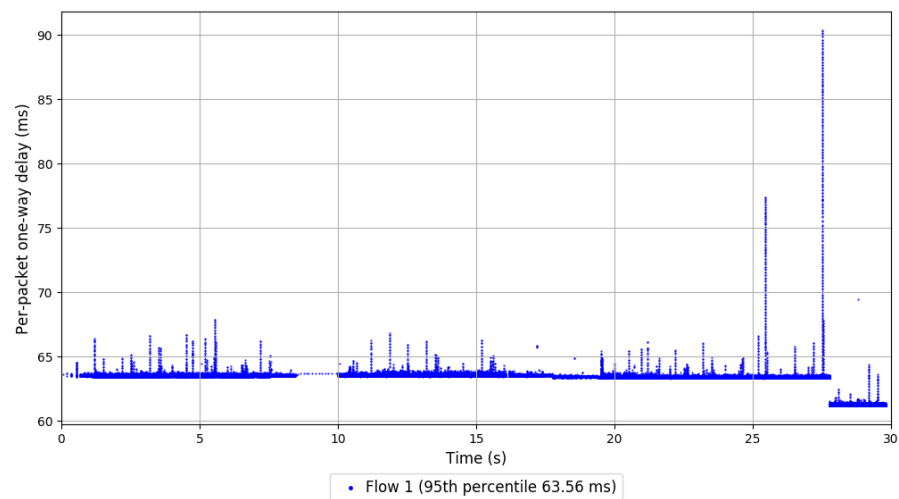
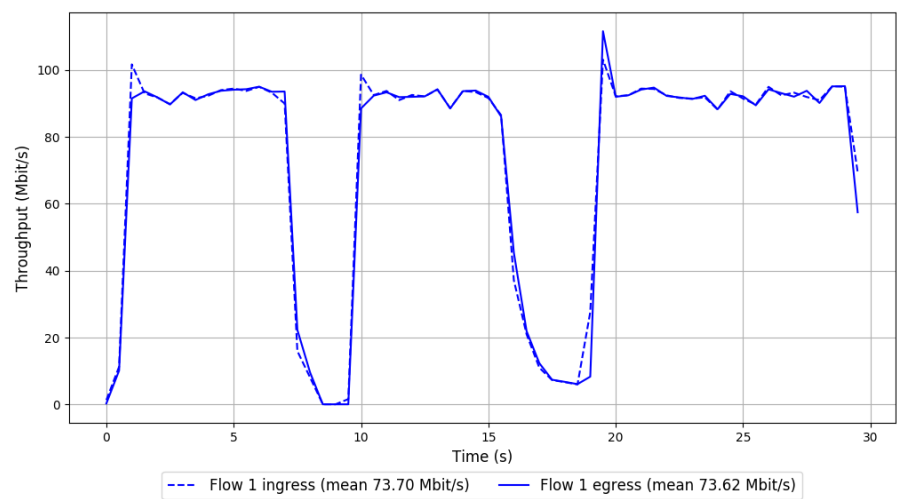


```
Run 2: Statistics of QUIC Cubic

Start at: 2018-01-16 22:46:37
End at: 2018-01-16 22:47:07

# Below is generated by plot.py at 2018-01-17 03:36:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 73.62 Mbit/s
95th percentile per-packet one-way delay: 63.563 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 73.62 Mbit/s
95th percentile per-packet one-way delay: 63.563 ms
Loss rate: 0.54%
```

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-01-16 23:01:14

End at: 2018-01-16 23:01:44

Below is generated by plot.py at 2018-01-17 03:36:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 62.72 Mbit/s

95th percentile per-packet one-way delay: 63.752 ms

Loss rate: 0.60%

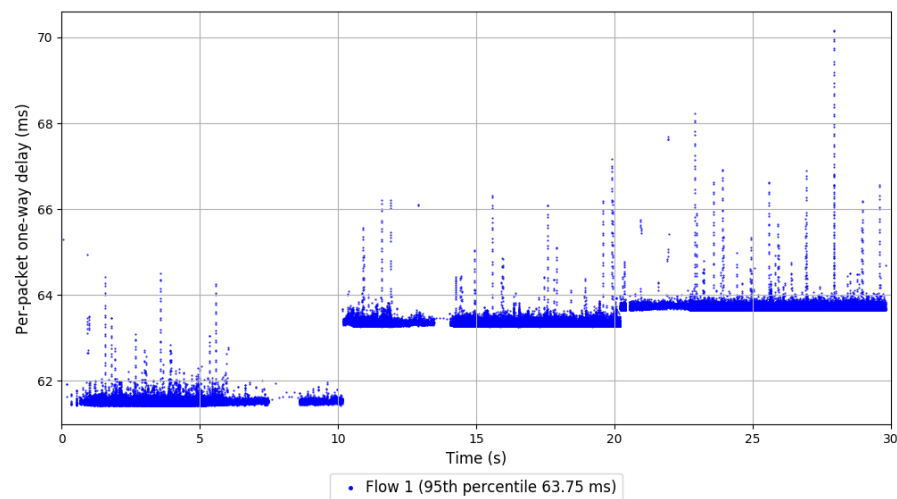
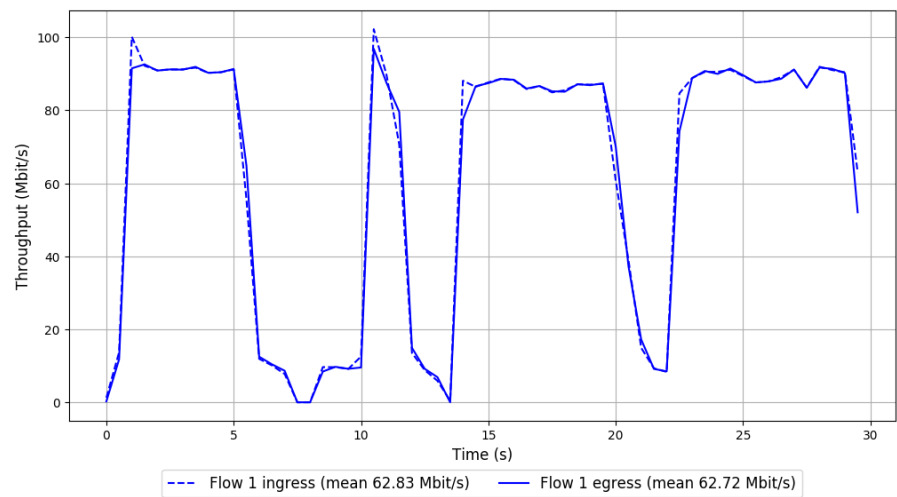
-- Flow 1:

Average throughput: 62.72 Mbit/s

95th percentile per-packet one-way delay: 63.752 ms

Loss rate: 0.60%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-01-16 23:15:14

End at: 2018-01-16 23:15:44

Below is generated by plot.py at 2018-01-17 03:36:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 58.40 Mbit/s

95th percentile per-packet one-way delay: 63.623 ms

Loss rate: 0.63%

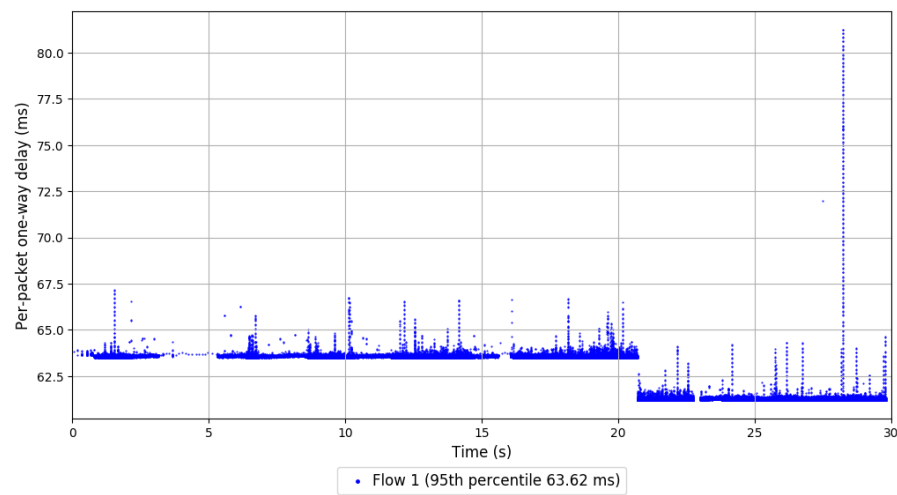
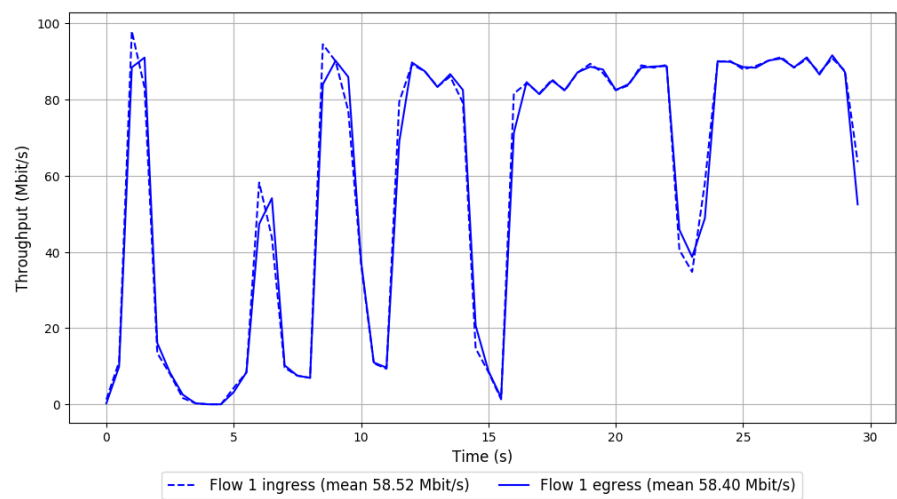
-- Flow 1:

Average throughput: 58.40 Mbit/s

95th percentile per-packet one-way delay: 63.623 ms

Loss rate: 0.63%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-01-16 23:29:32

End at: 2018-01-16 23:30:02

Below is generated by plot.py at 2018-01-17 03:36:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.35 Mbit/s

95th percentile per-packet one-way delay: 63.536 ms

Loss rate: 0.52%

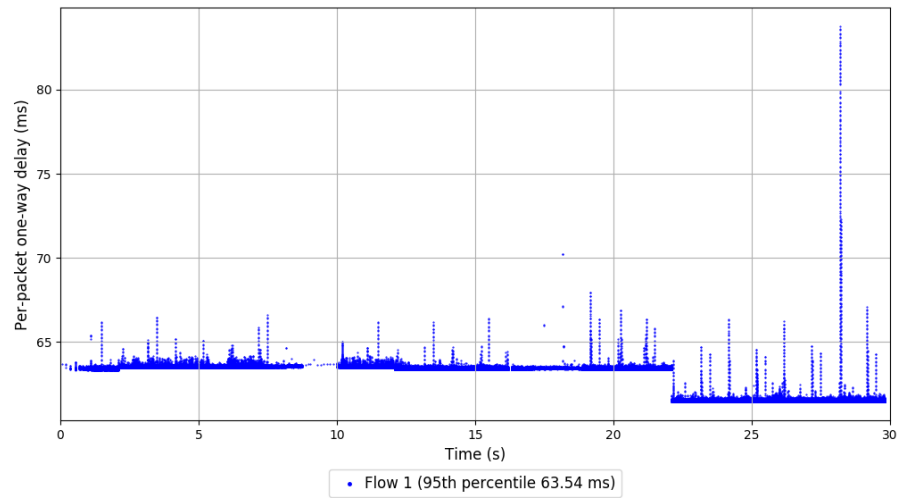
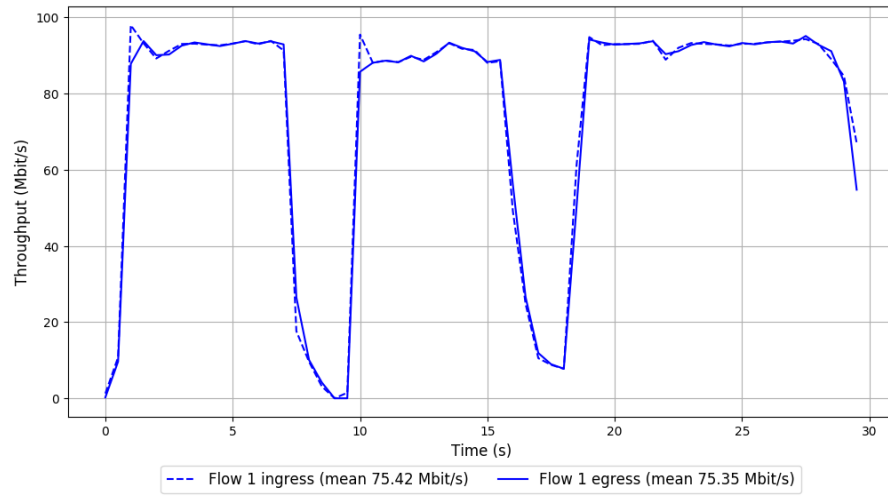
-- Flow 1:

Average throughput: 75.35 Mbit/s

95th percentile per-packet one-way delay: 63.536 ms

Loss rate: 0.52%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-01-16 23:43:50

End at: 2018-01-16 23:44:20

Below is generated by plot.py at 2018-01-17 03:36:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 69.97 Mbit/s

95th percentile per-packet one-way delay: 63.740 ms

Loss rate: 0.54%

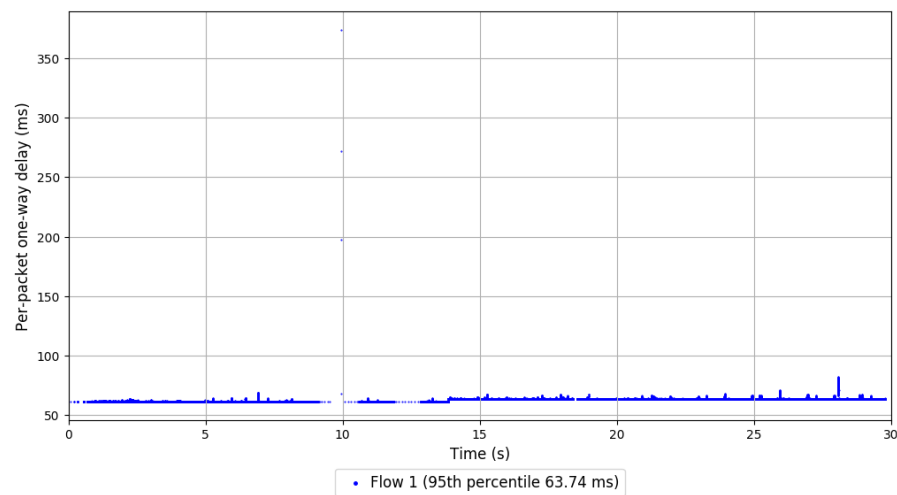
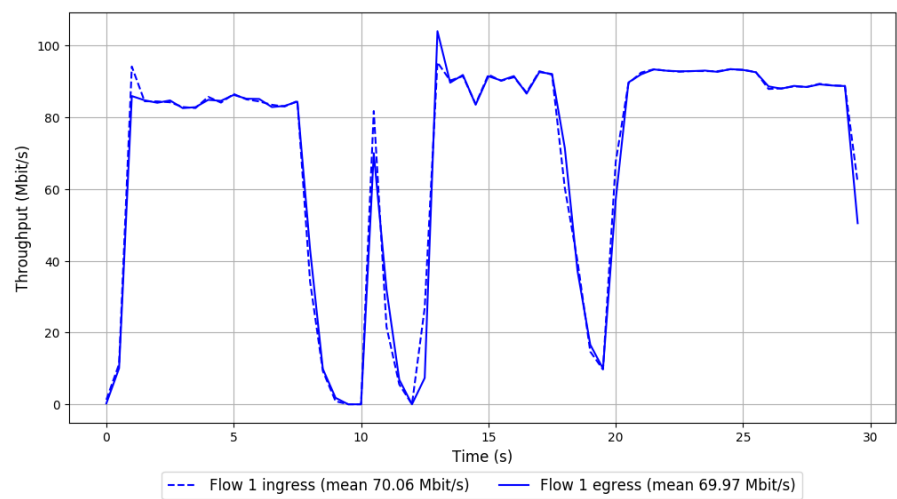
-- Flow 1:

Average throughput: 69.97 Mbit/s

95th percentile per-packet one-way delay: 63.740 ms

Loss rate: 0.54%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-01-16 23:58:10

End at: 2018-01-16 23:58:40

Below is generated by plot.py at 2018-01-17 03:36:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.59 Mbit/s

95th percentile per-packet one-way delay: 63.508 ms

Loss rate: 0.51%

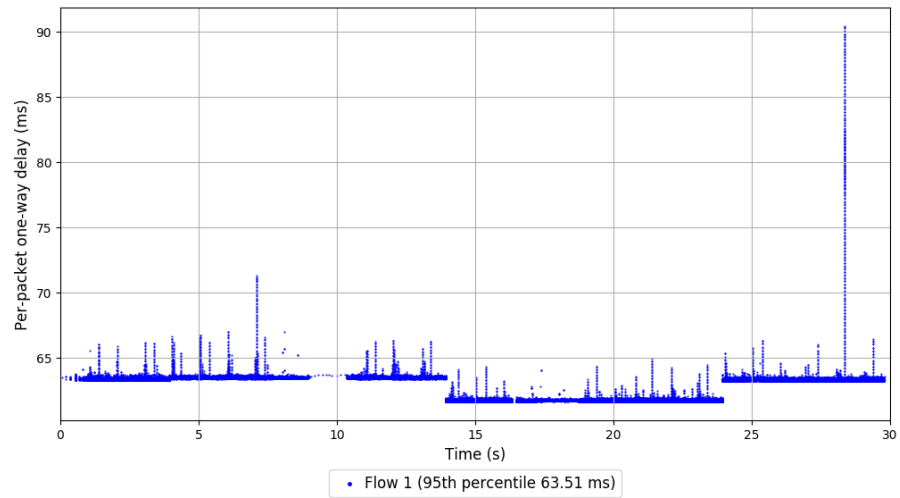
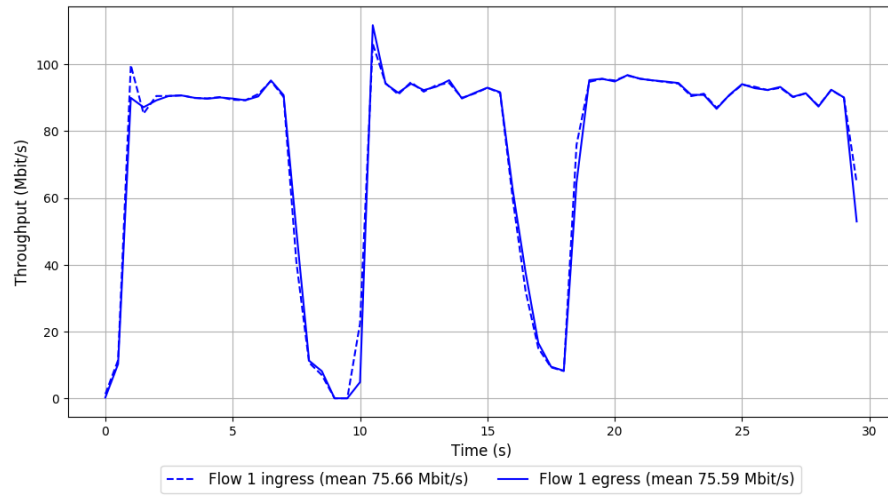
-- Flow 1:

Average throughput: 75.59 Mbit/s

95th percentile per-packet one-way delay: 63.508 ms

Loss rate: 0.51%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-01-17 00:12:18

End at: 2018-01-17 00:12:48

Below is generated by plot.py at 2018-01-17 03:36:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.25 Mbit/s

95th percentile per-packet one-way delay: 63.519 ms

Loss rate: 0.53%

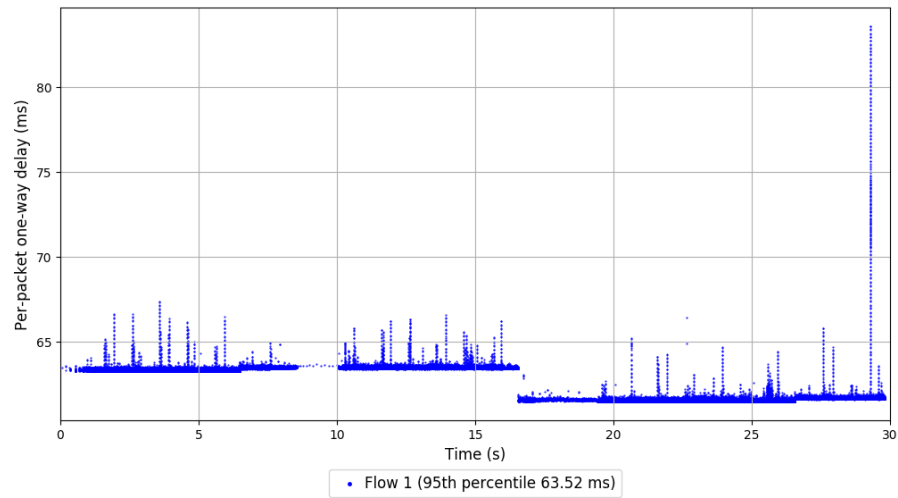
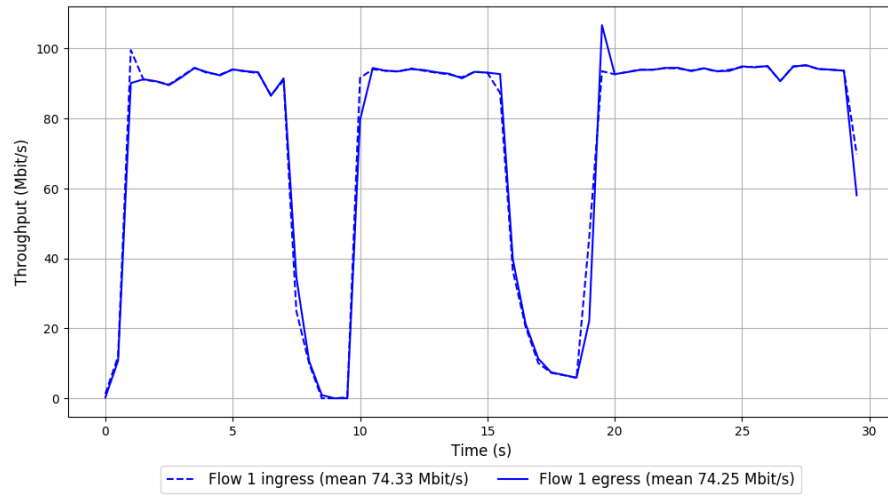
-- Flow 1:

Average throughput: 74.25 Mbit/s

95th percentile per-packet one-way delay: 63.519 ms

Loss rate: 0.53%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-01-17 00:26:34

End at: 2018-01-17 00:27:04

Below is generated by plot.py at 2018-01-17 03:36:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.36 Mbit/s

95th percentile per-packet one-way delay: 63.635 ms

Loss rate: 0.39%

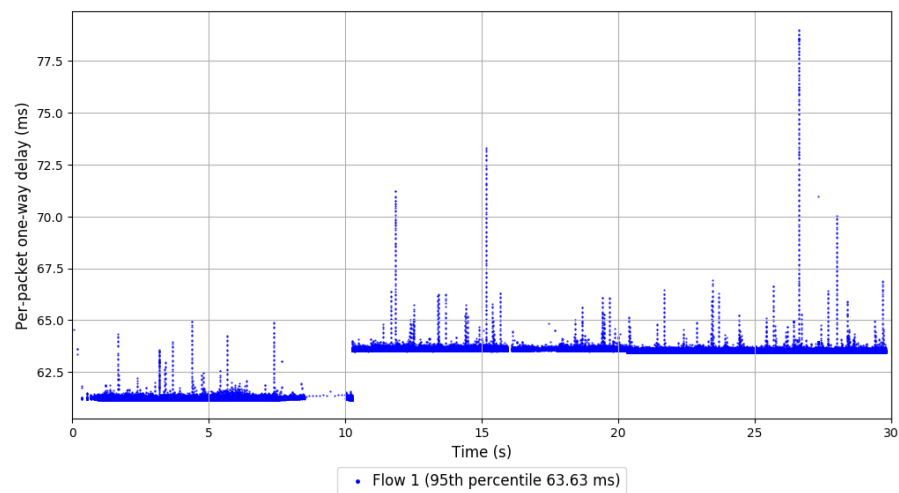
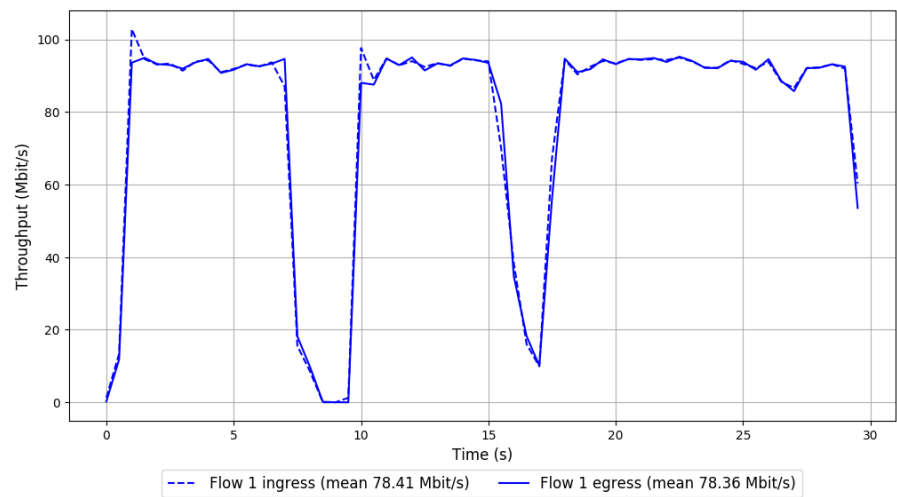
-- Flow 1:

Average throughput: 78.36 Mbit/s

95th percentile per-packet one-way delay: 63.635 ms

Loss rate: 0.39%

Run 9: Report of QUIC Cubic — Data Link

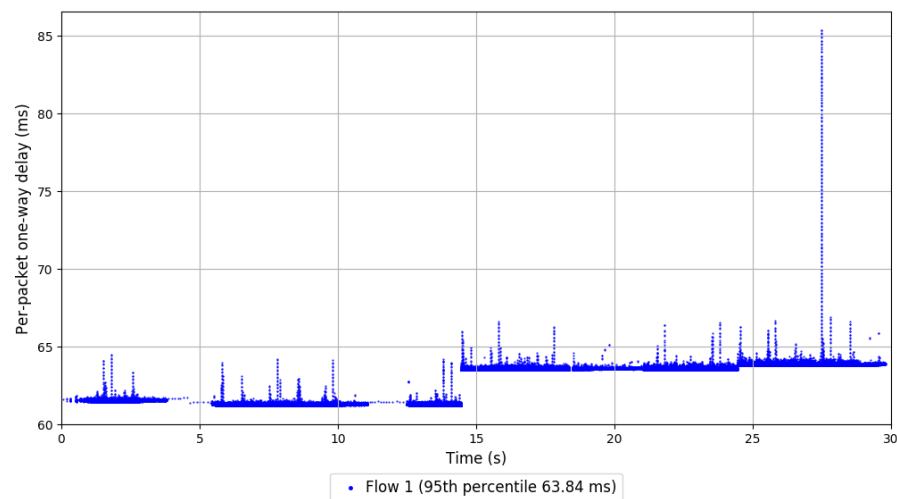
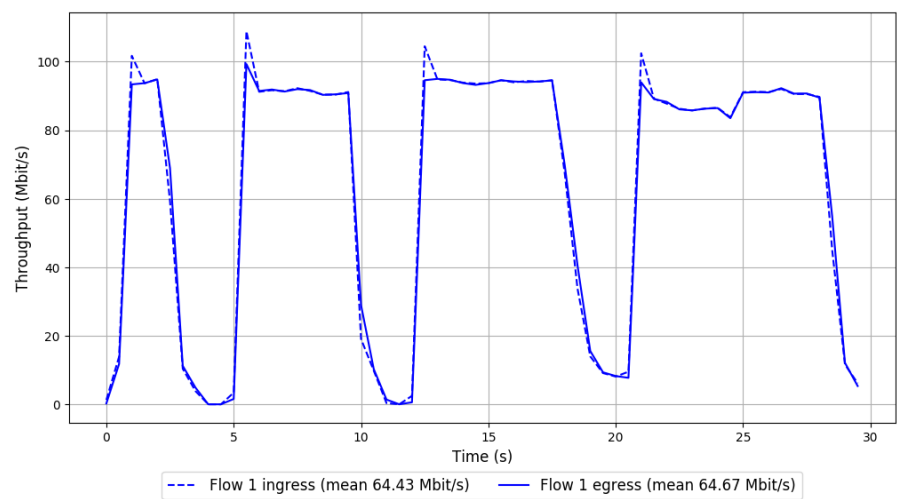


```
Run 10: Statistics of QUIC Cubic

Start at: 2018-01-17 00:41:00
End at: 2018-01-17 00:41:30

# Below is generated by plot.py at 2018-01-17 03:36:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 64.67 Mbit/s
95th percentile per-packet one-way delay: 63.845 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 64.67 Mbit/s
95th percentile per-packet one-way delay: 63.845 ms
Loss rate: 0.05%
```

Run 10: Report of QUIC Cubic — Data Link

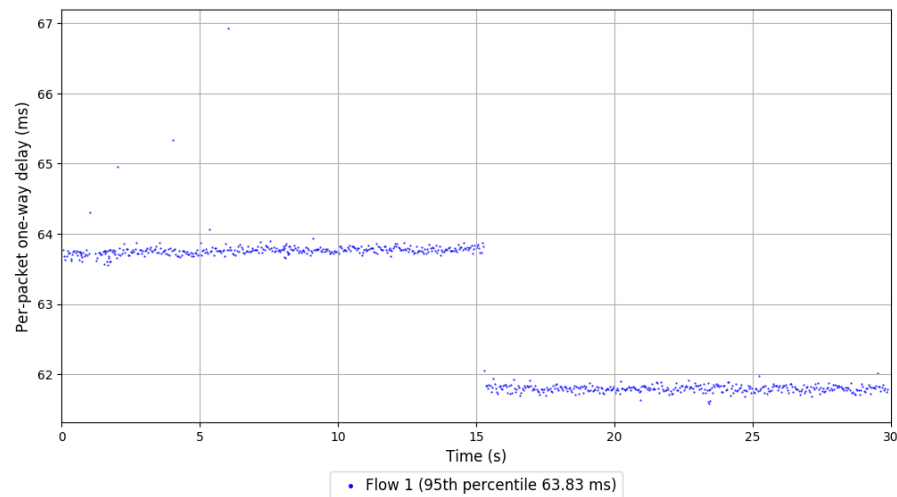
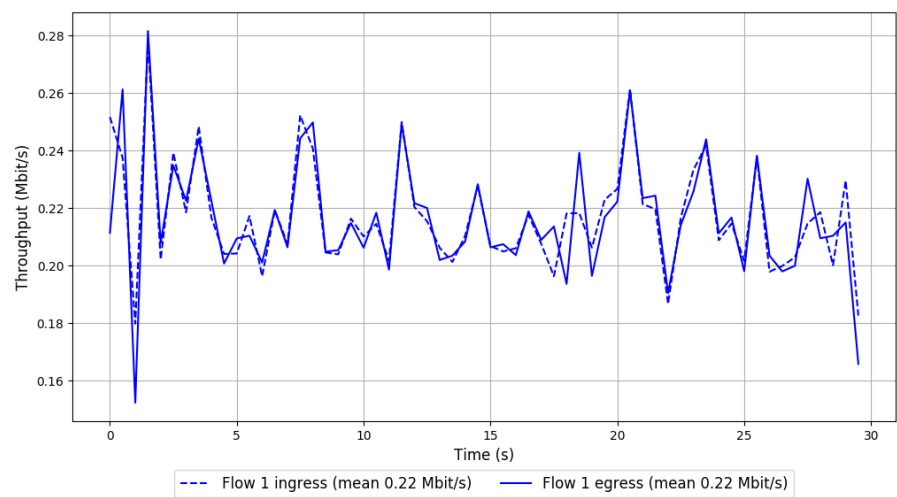


```
Run 1: Statistics of SCReAM

Start at: 2018-01-16 22:21:49
End at: 2018-01-16 22:22:19

# Below is generated by plot.py at 2018-01-17 03:36:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.826 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.826 ms
Loss rate: 0.38%
```

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SCReAM

Start at: 2018-01-16 22:36:20

End at: 2018-01-16 22:36:50

Below is generated by plot.py at 2018-01-17 03:36:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 61.742 ms

Loss rate: 0.38%

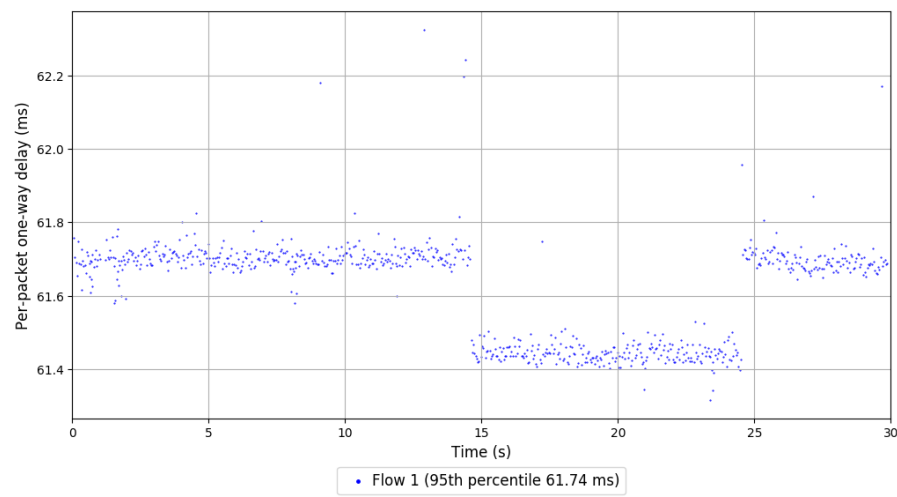
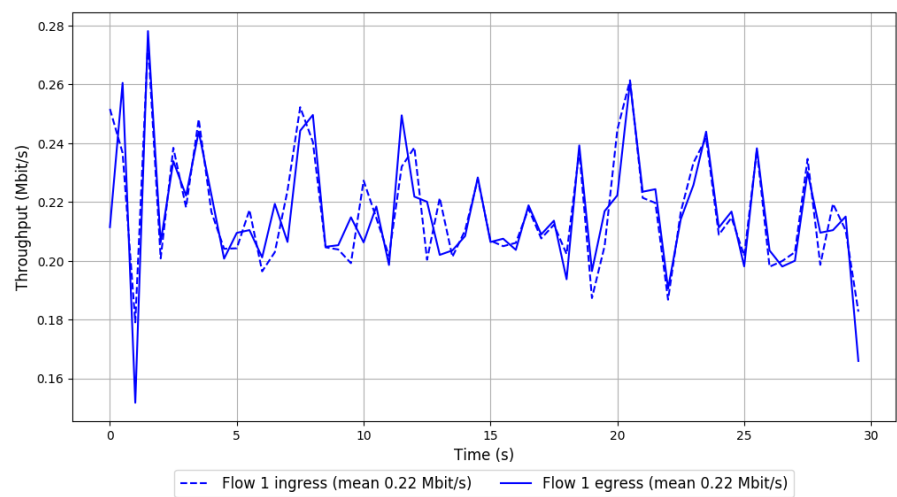
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 61.742 ms

Loss rate: 0.38%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-01-16 22:50:41

End at: 2018-01-16 22:51:11

Below is generated by plot.py at 2018-01-17 03:36:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.657 ms

Loss rate: 0.38%

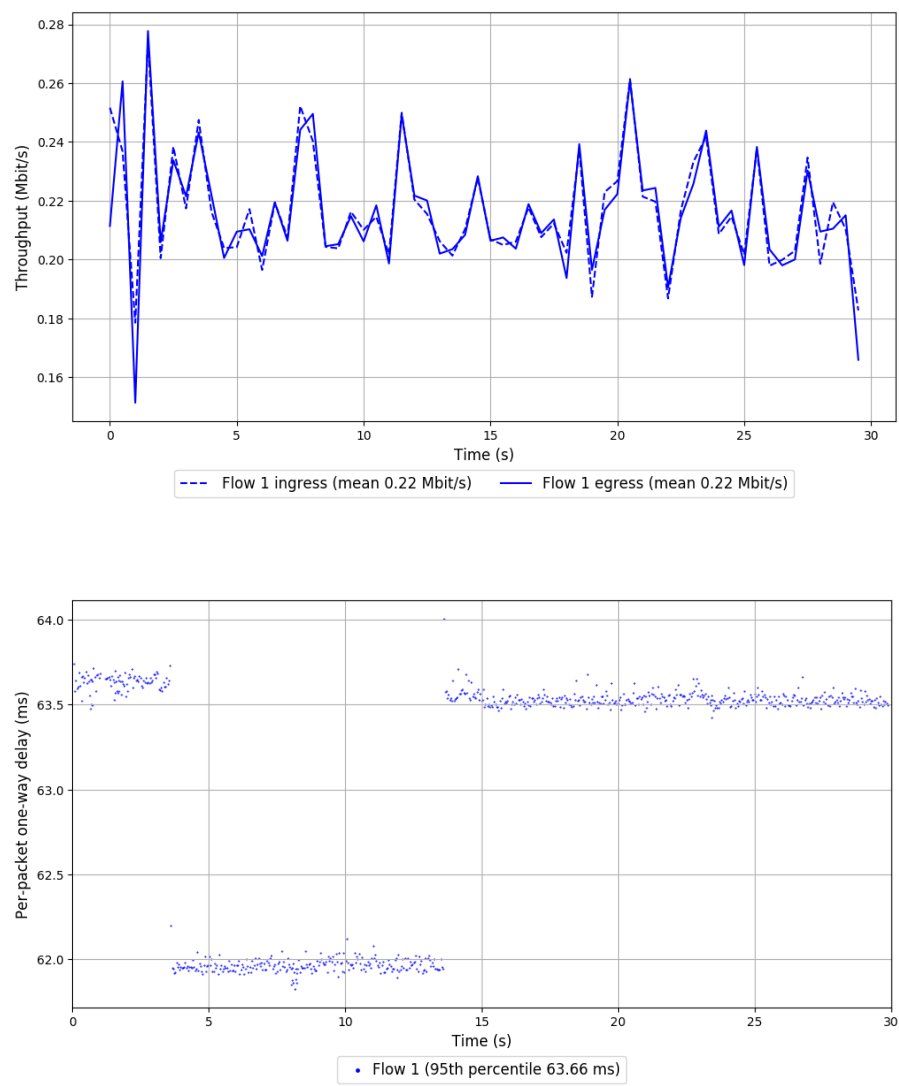
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.657 ms

Loss rate: 0.38%

Run 3: Report of SReAM — Data Link

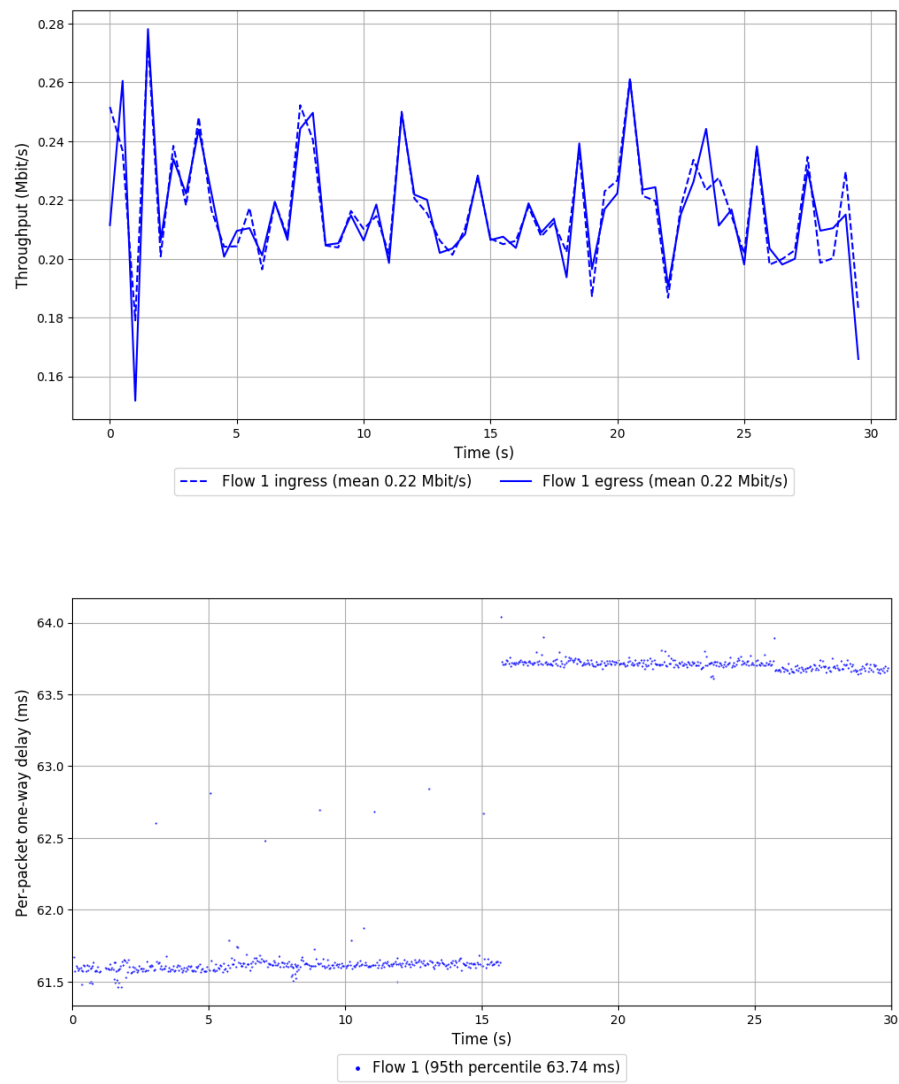


```
Run 4: Statistics of SCReAM

Start at: 2018-01-16 23:05:09
End at: 2018-01-16 23:05:39

# Below is generated by plot.py at 2018-01-17 03:36:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.740 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.740 ms
Loss rate: 0.38%
```

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2018-01-16 23:19:21

End at: 2018-01-16 23:19:51

Below is generated by plot.py at 2018-01-17 03:36:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.790 ms

Loss rate: 0.38%

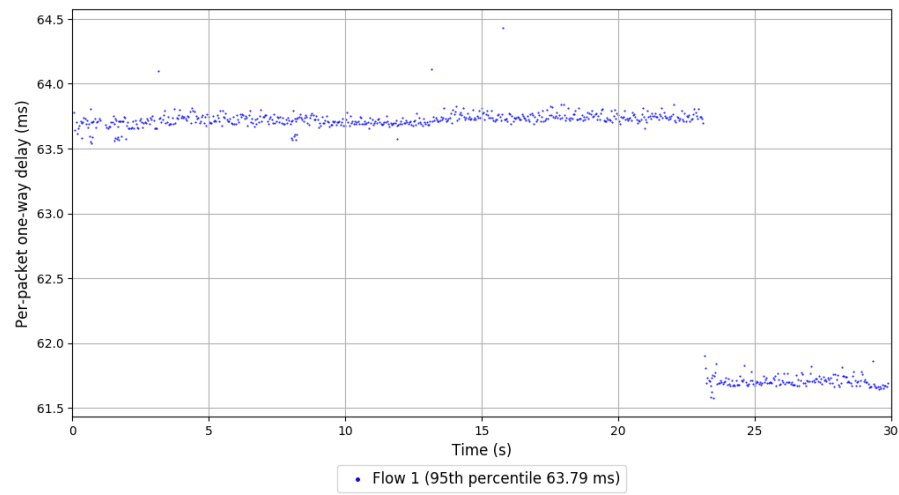
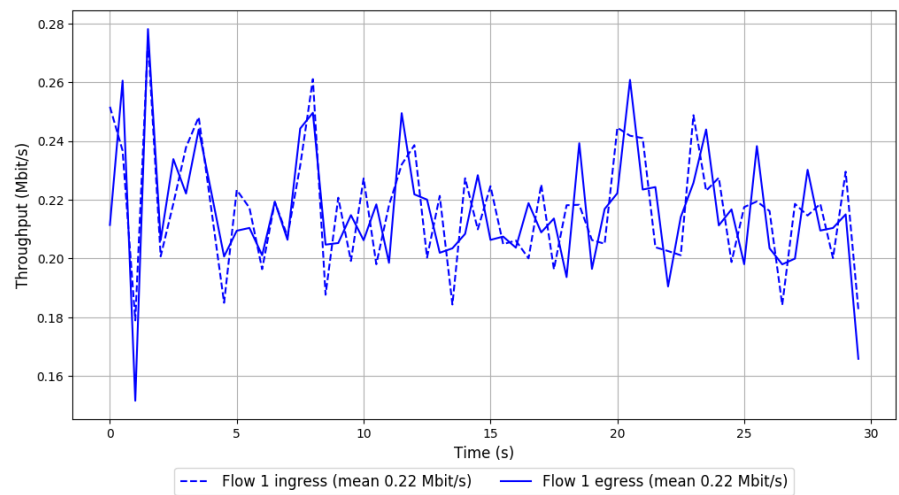
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.790 ms

Loss rate: 0.38%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-01-16 23:33:44

End at: 2018-01-16 23:34:14

Below is generated by plot.py at 2018-01-17 03:36:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.588 ms

Loss rate: 0.38%

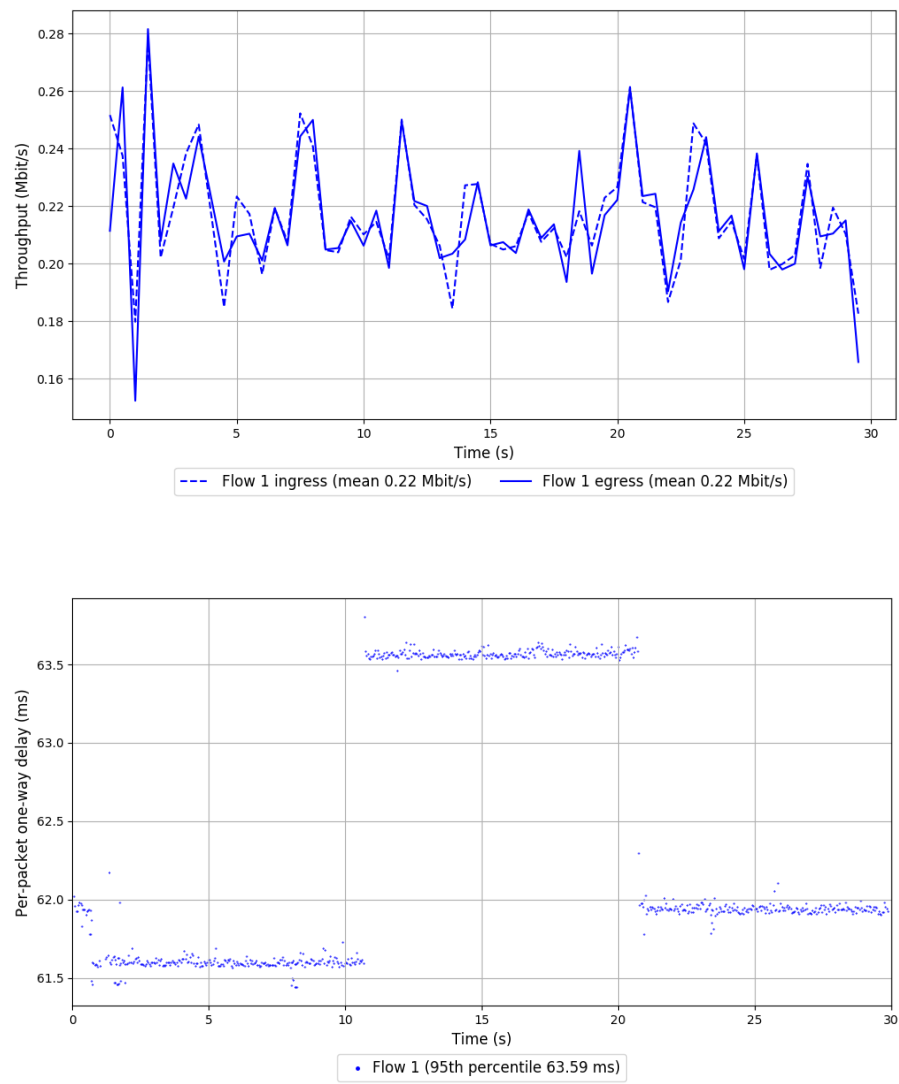
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.588 ms

Loss rate: 0.38%

Run 6: Report of SReAM — Data Link

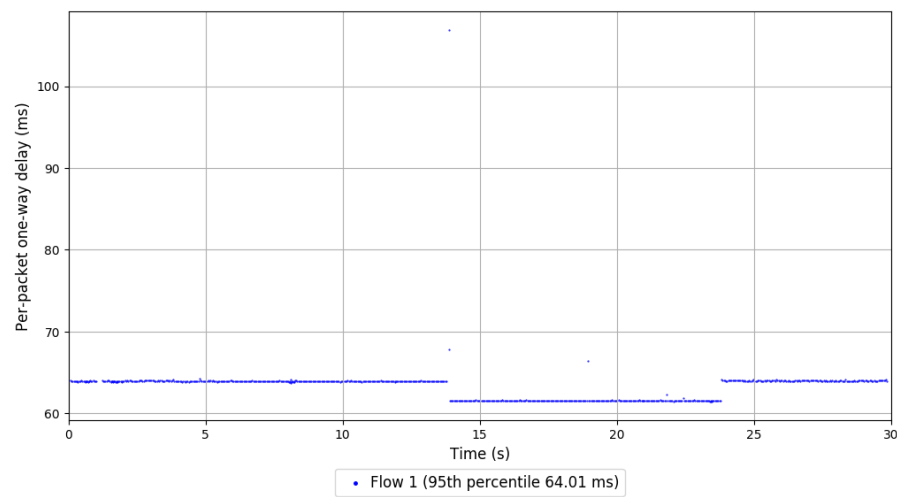
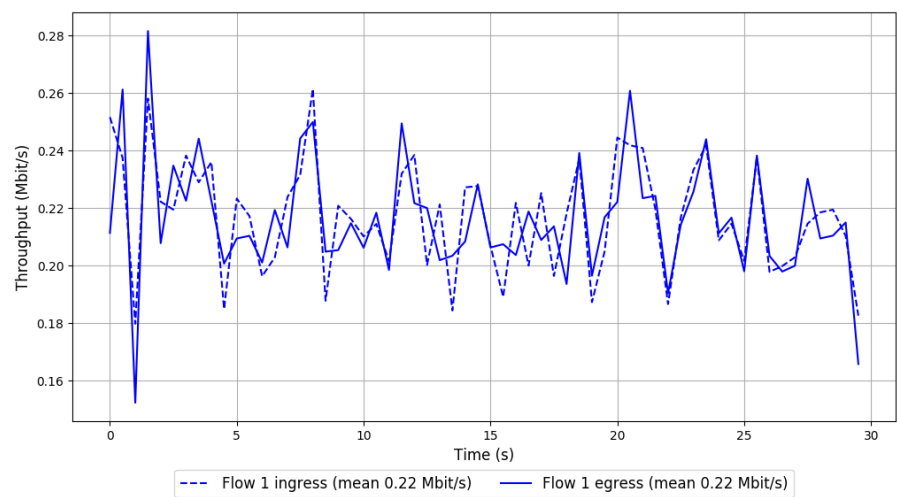


```
Run 7: Statistics of SCReAM

Start at: 2018-01-16 23:47:41
End at: 2018-01-16 23:48:11

# Below is generated by plot.py at 2018-01-17 03:36:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 64.010 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 64.010 ms
Loss rate: 0.38%
```


Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-01-17 00:01:59

End at: 2018-01-17 00:02:29

Below is generated by plot.py at 2018-01-17 03:36:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.816 ms

Loss rate: 0.38%

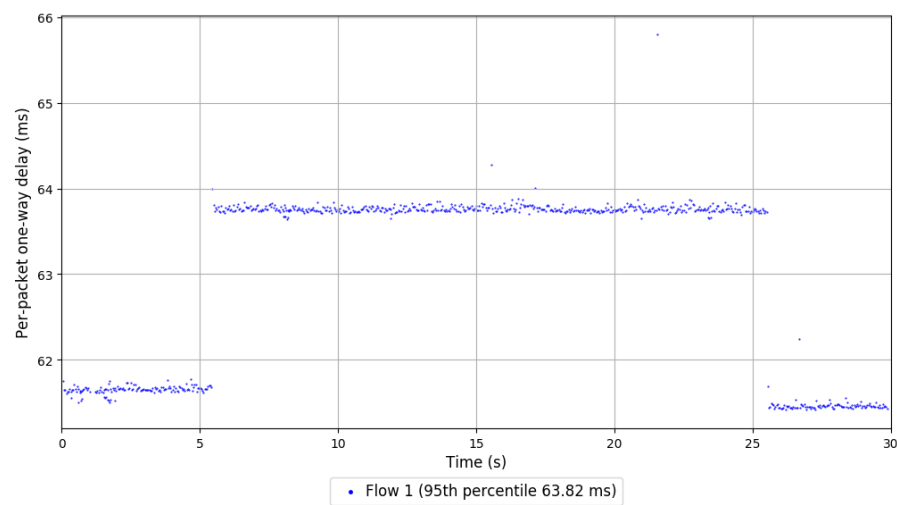
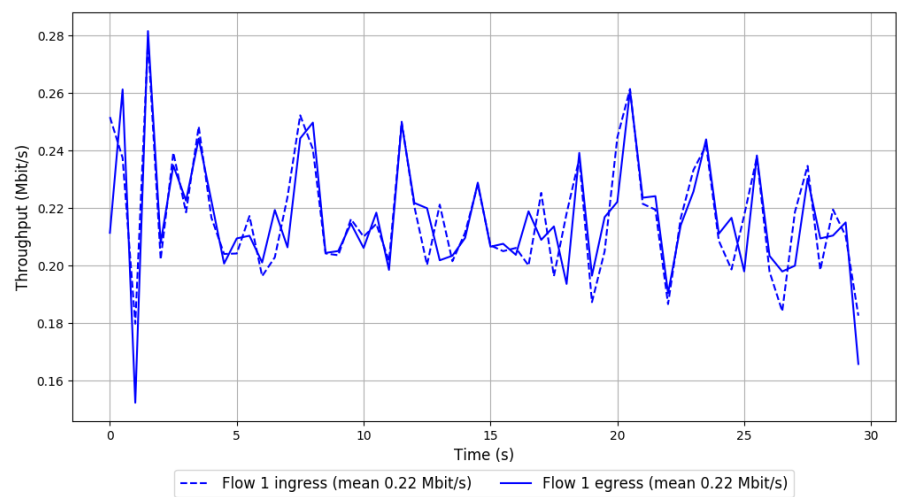
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.816 ms

Loss rate: 0.38%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-01-17 00:16:31

End at: 2018-01-17 00:17:01

Below is generated by plot.py at 2018-01-17 03:36:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.620 ms

Loss rate: 0.38%

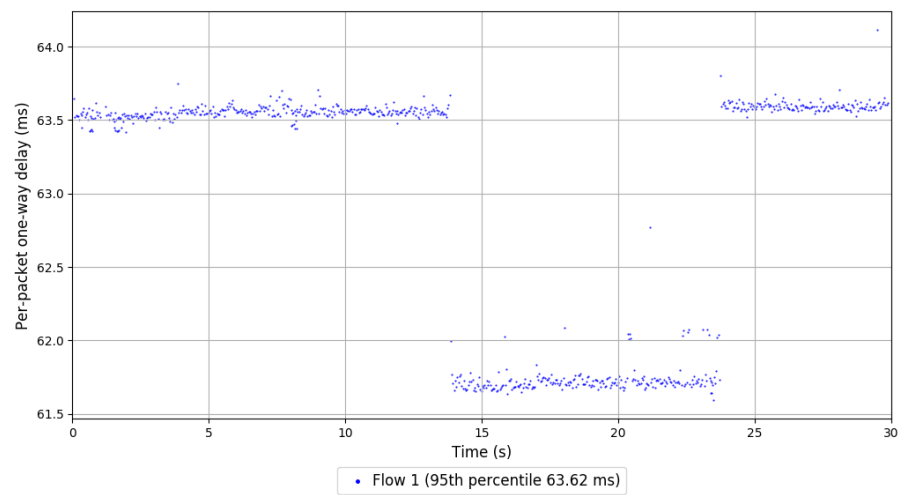
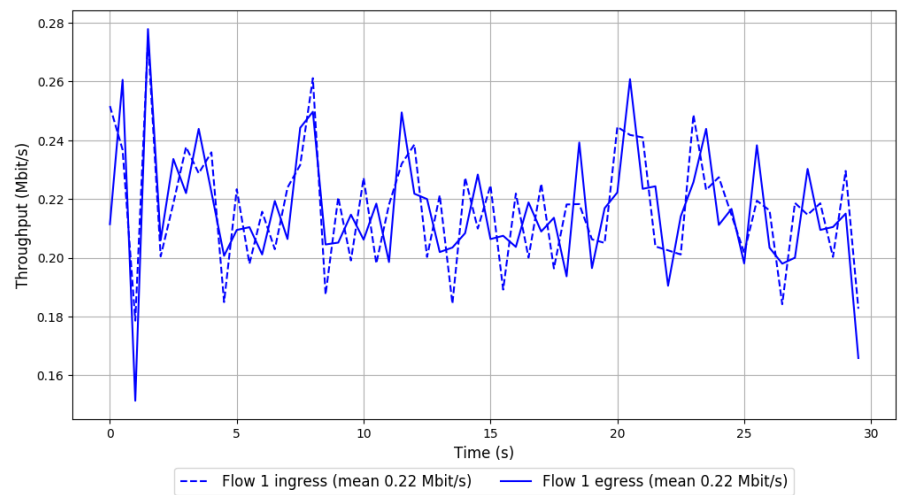
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.620 ms

Loss rate: 0.38%

Run 9: Report of SReAM — Data Link

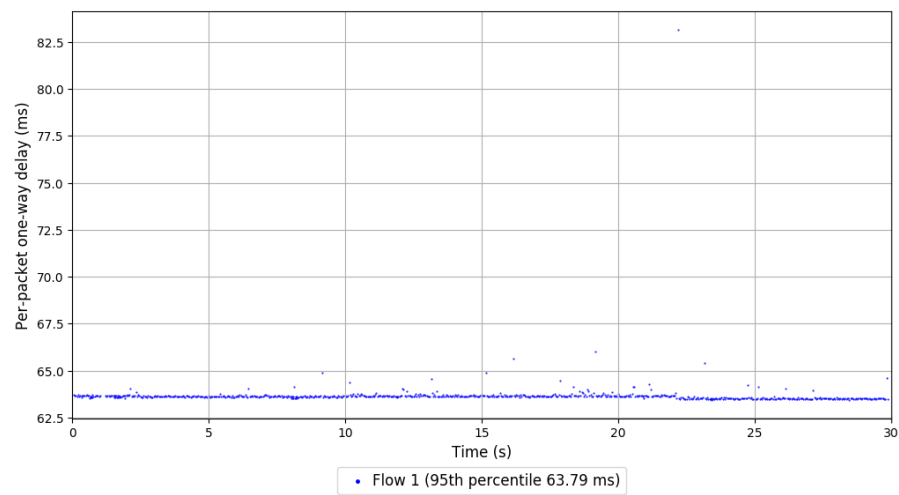
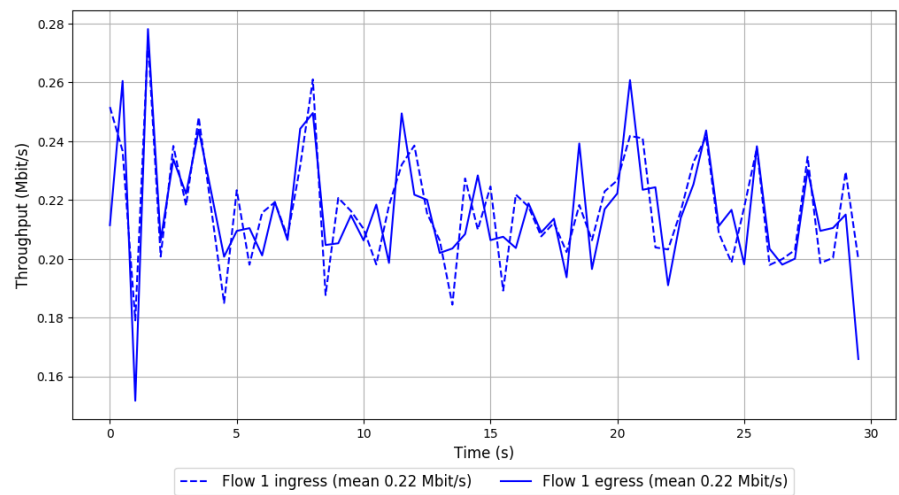


```
Run 10: Statistics of SReAM

Start at: 2018-01-17 00:30:42
End at: 2018-01-17 00:31:12

# Below is generated by plot.py at 2018-01-17 03:36:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.791 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.791 ms
Loss rate: 0.51%
```

Run 10: Report of SCRaM — Data Link

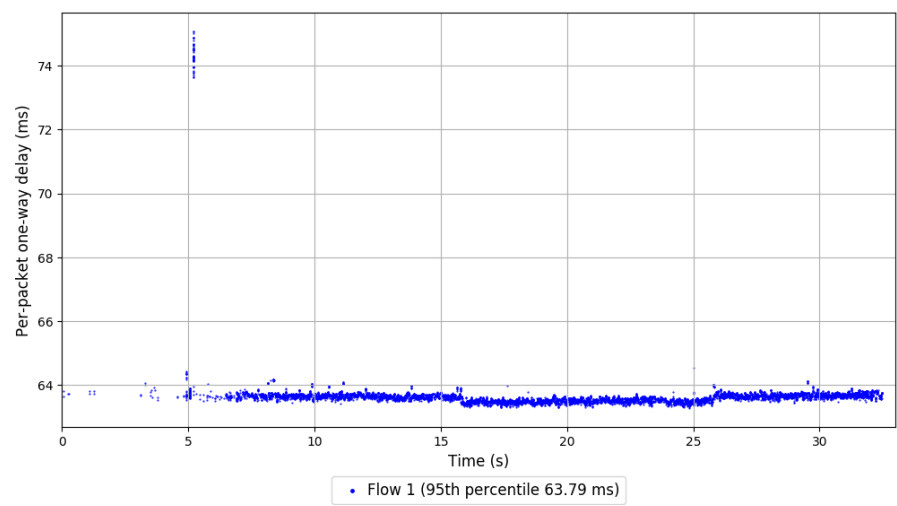
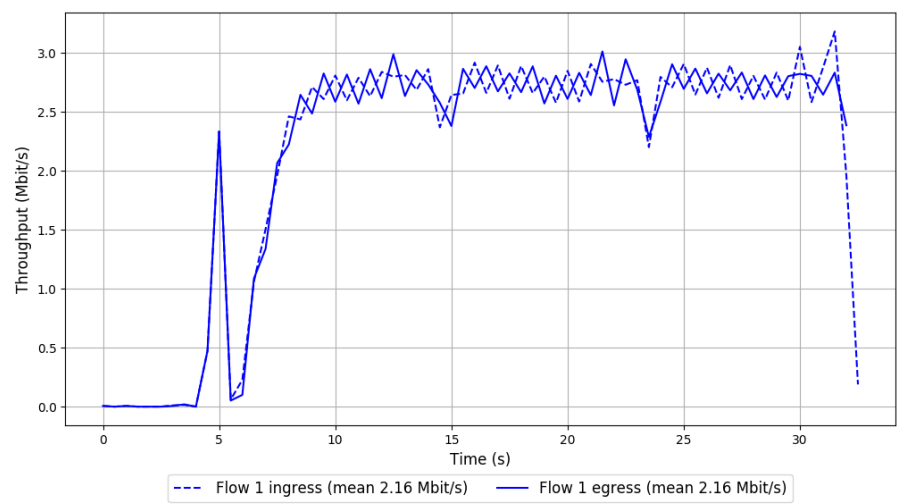


```
Run 1: Statistics of WebRTC media

Start at: 2018-01-16 22:21:11
End at: 2018-01-16 22:21:41

# Below is generated by plot.py at 2018-01-17 03:36:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.16 Mbit/s
95th percentile per-packet one-way delay: 63.786 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 2.16 Mbit/s
95th percentile per-packet one-way delay: 63.786 ms
Loss rate: 0.40%
```


Run 1: Report of WebRTC media — Data Link

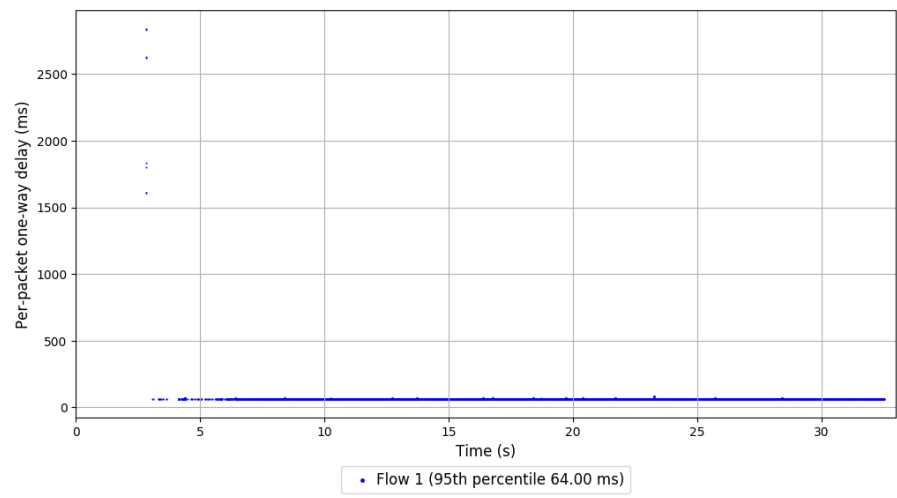
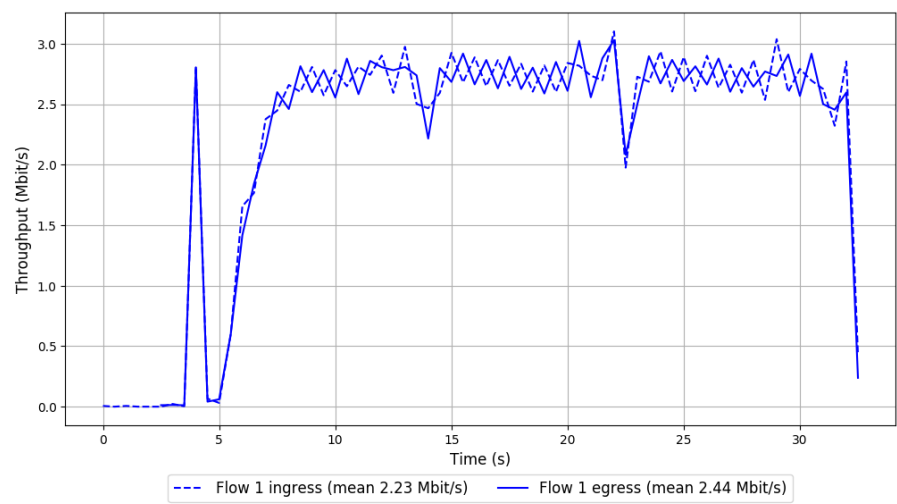


```
Run 2: Statistics of WebRTC media

Start at: 2018-01-16 22:35:42
End at: 2018-01-16 22:36:12

# Below is generated by plot.py at 2018-01-17 03:36:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.44 Mbit/s
95th percentile per-packet one-way delay: 64.001 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 2.44 Mbit/s
95th percentile per-packet one-way delay: 64.001 ms
Loss rate: 0.45%
```

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-01-16 22:50:03

End at: 2018-01-16 22:50:33

Below is generated by plot.py at 2018-01-17 03:36:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 63.791 ms

Loss rate: 0.46%

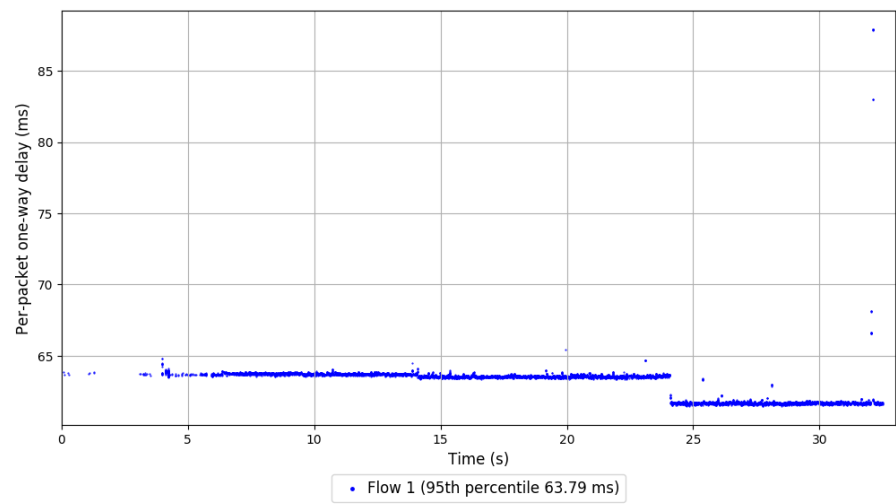
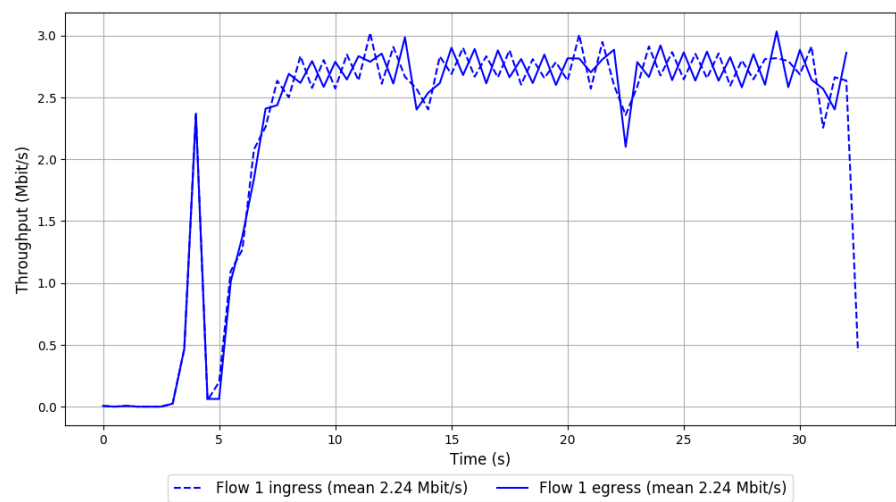
-- Flow 1:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 63.791 ms

Loss rate: 0.46%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-01-16 23:04:31

End at: 2018-01-16 23:05:01

Below is generated by plot.py at 2018-01-17 03:36:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.26 Mbit/s

95th percentile per-packet one-way delay: 63.780 ms

Loss rate: 0.45%

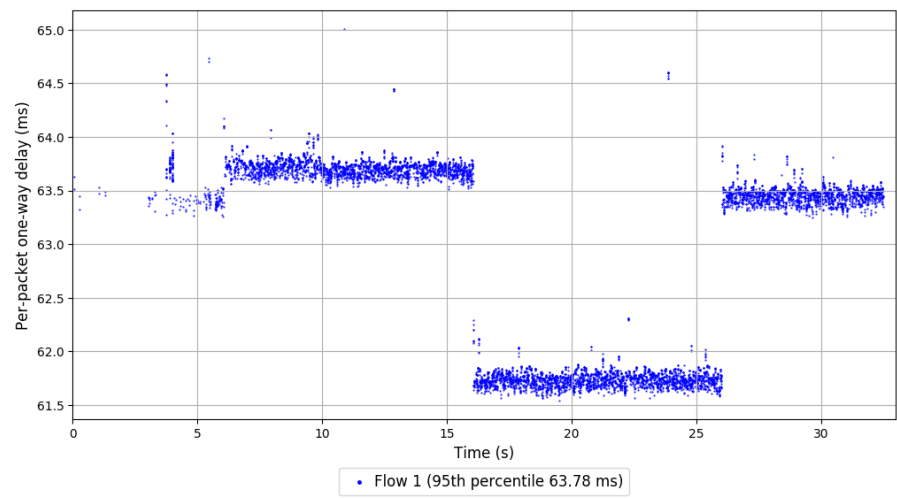
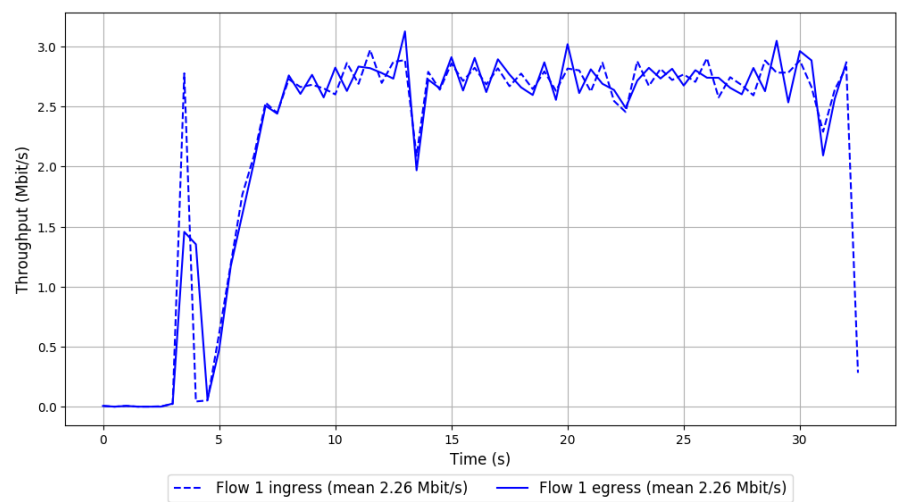
-- Flow 1:

Average throughput: 2.26 Mbit/s

95th percentile per-packet one-way delay: 63.780 ms

Loss rate: 0.45%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-01-16 23:18:43

End at: 2018-01-16 23:19:13

Below is generated by plot.py at 2018-01-17 03:36:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.26 Mbit/s

95th percentile per-packet one-way delay: 63.843 ms

Loss rate: 0.46%

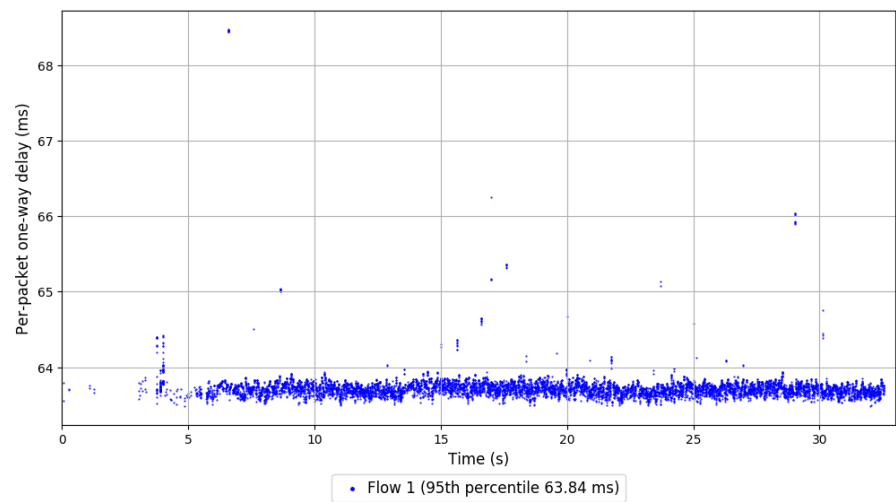
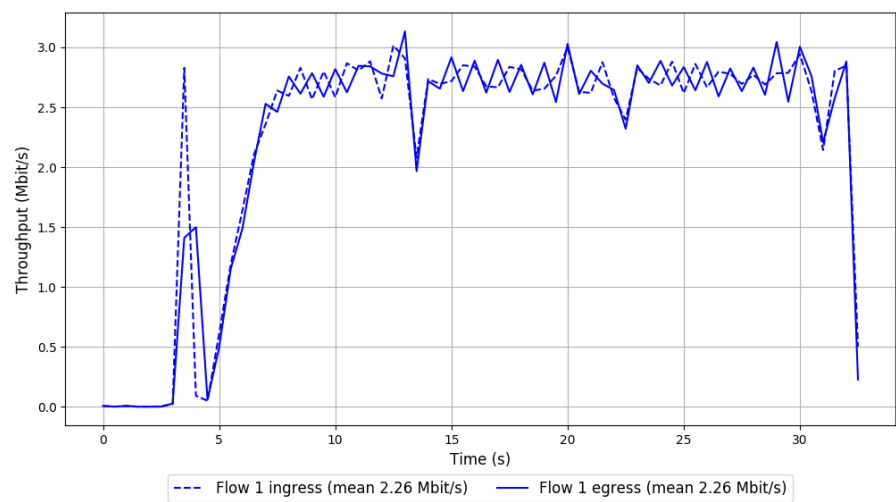
-- Flow 1:

Average throughput: 2.26 Mbit/s

95th percentile per-packet one-way delay: 63.843 ms

Loss rate: 0.46%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-01-16 23:33:06

End at: 2018-01-16 23:33:36

Below is generated by plot.py at 2018-01-17 03:36:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.25 Mbit/s

95th percentile per-packet one-way delay: 64.013 ms

Loss rate: 0.46%

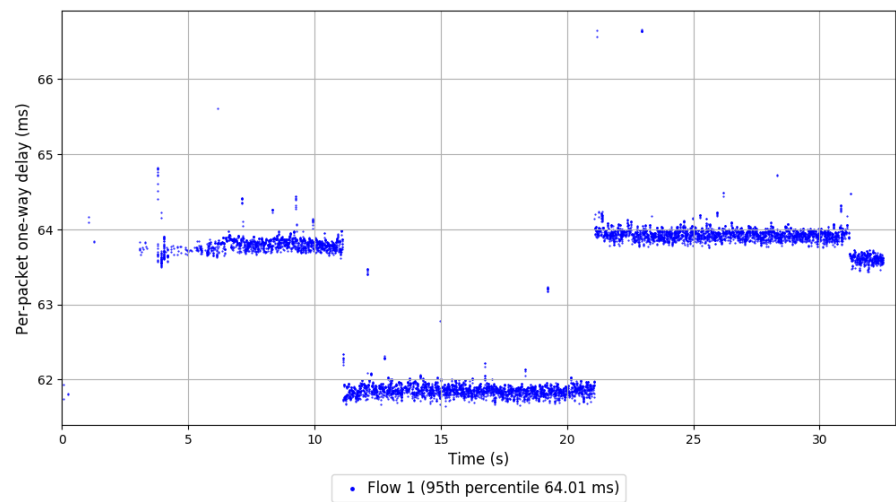
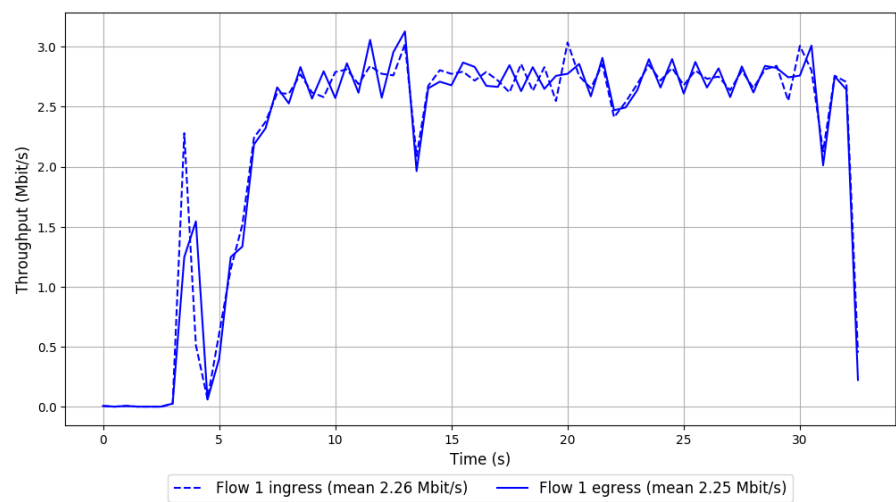
-- Flow 1:

Average throughput: 2.25 Mbit/s

95th percentile per-packet one-way delay: 64.013 ms

Loss rate: 0.46%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-01-16 23:47:03

End at: 2018-01-16 23:47:33

Below is generated by plot.py at 2018-01-17 03:36:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.44 Mbit/s

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

Loss rate: 0.46%

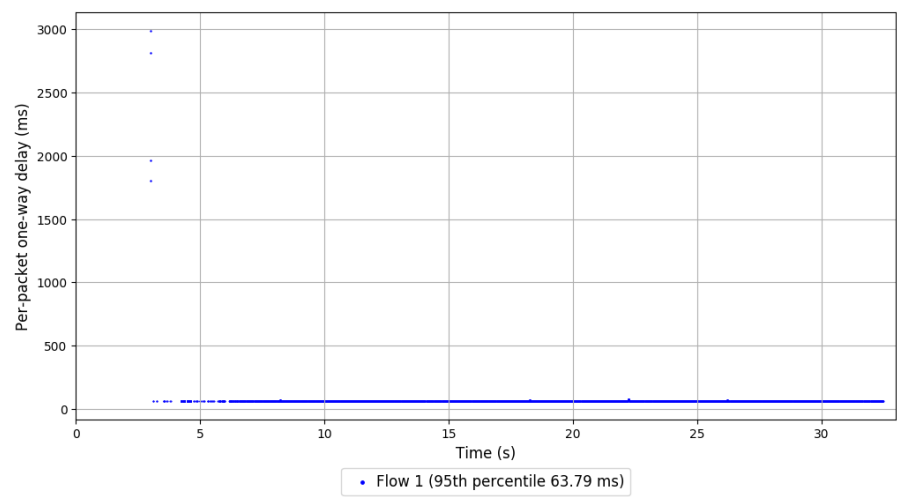
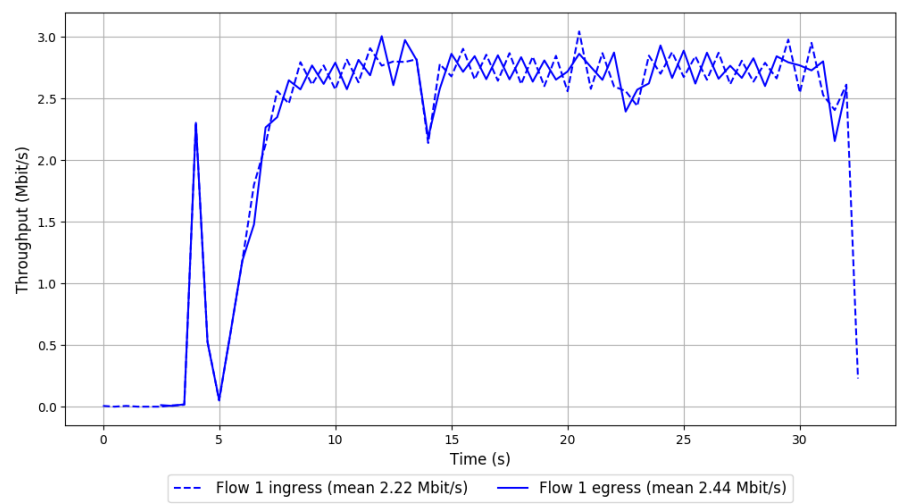
-- Flow 1:

Average throughput: 2.44 Mbit/s

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

Loss rate: 0.46%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-01-17 00:01:21

End at: 2018-01-17 00:01:51

Below is generated by plot.py at 2018-01-17 03:36:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.25 Mbit/s

95th percentile per-packet one-way delay: 63.578 ms

Loss rate: 0.49%

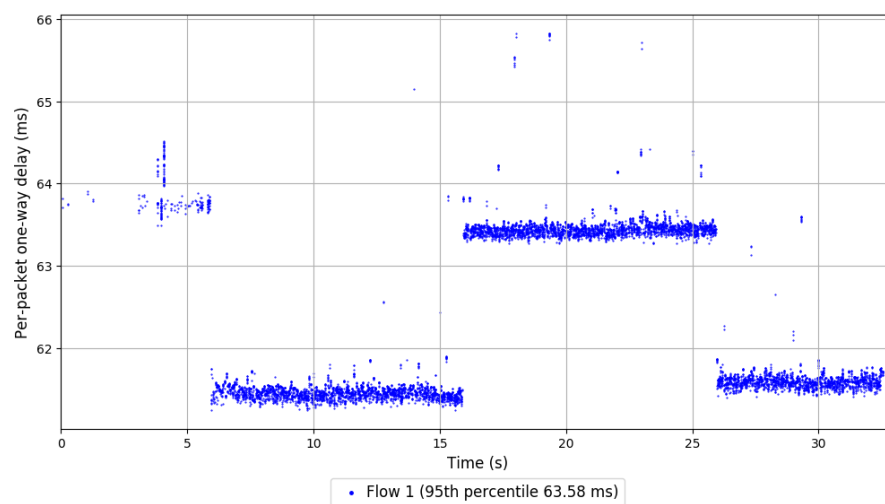
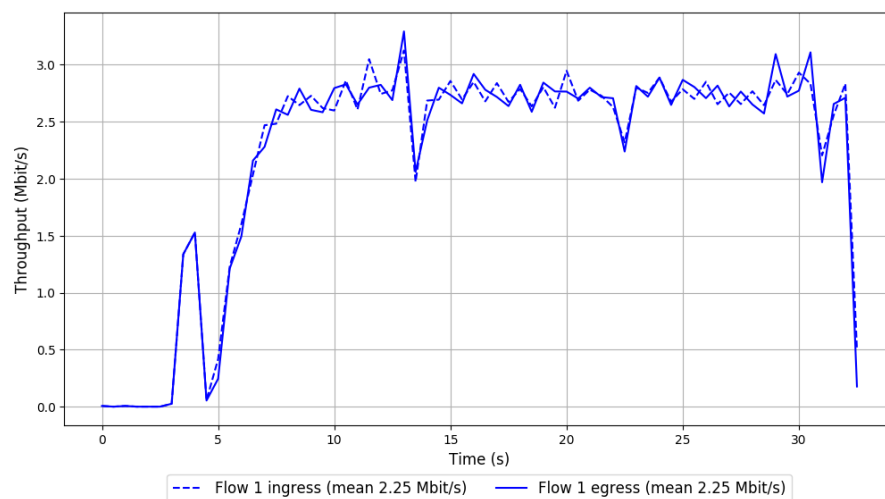
-- Flow 1:

Average throughput: 2.25 Mbit/s

95th percentile per-packet one-way delay: 63.578 ms

Loss rate: 0.49%

Run 8: Report of WebRTC media — Data Link

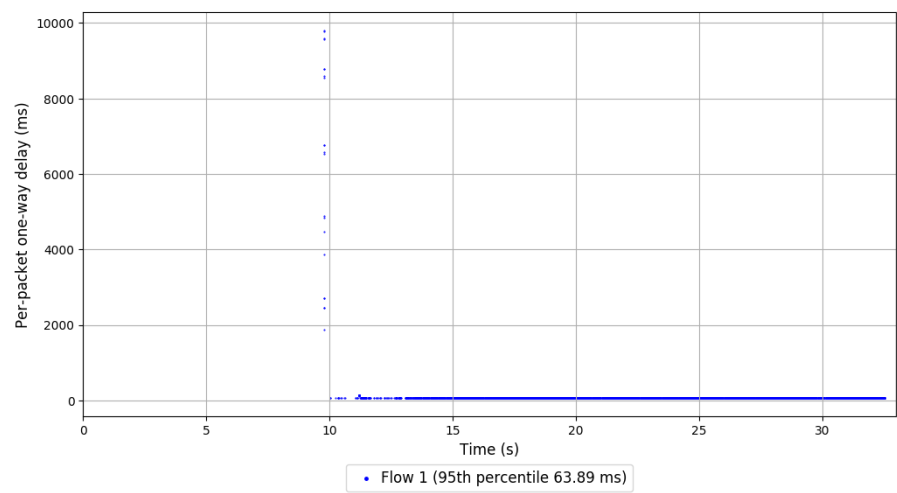
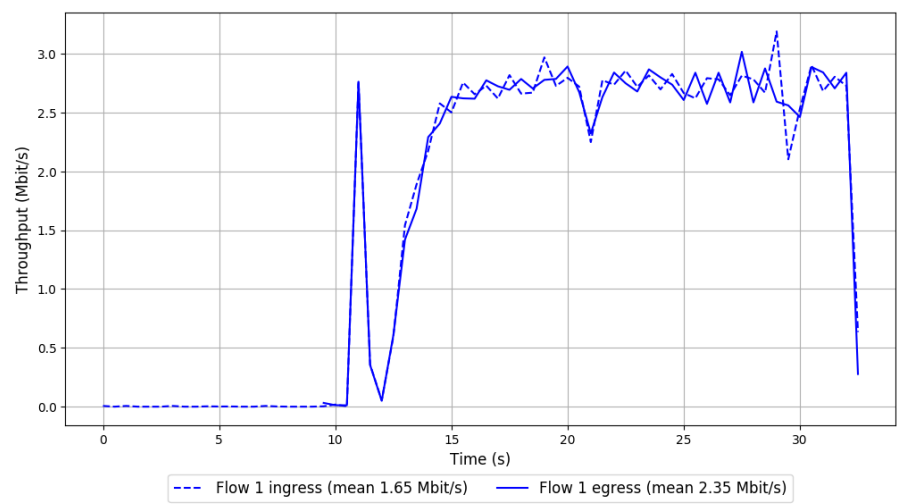


Run 9: Statistics of WebRTC media

Start at: 2018-01-17 00:15:53

End at: 2018-01-17 00:16:23

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-01-17 00:30:05

End at: 2018-01-17 00:30:35

Below is generated by plot.py at 2018-01-17 03:36:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 63.910 ms

Loss rate: 0.56%

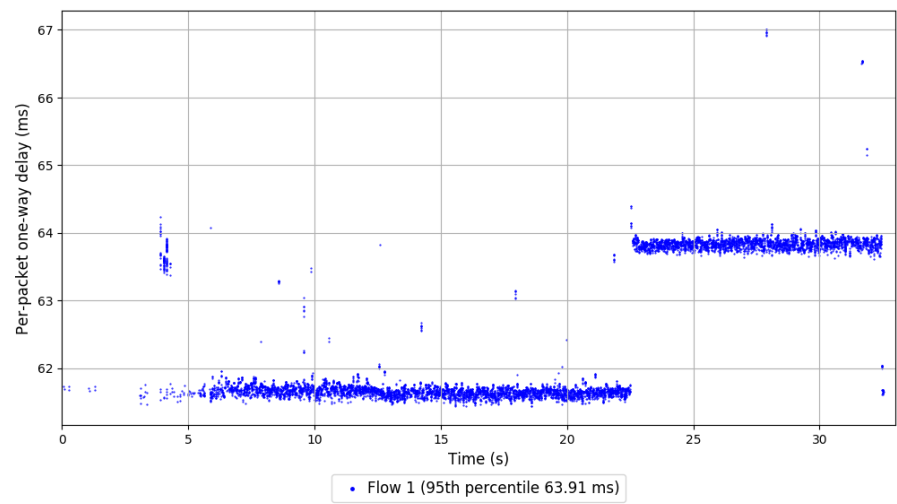
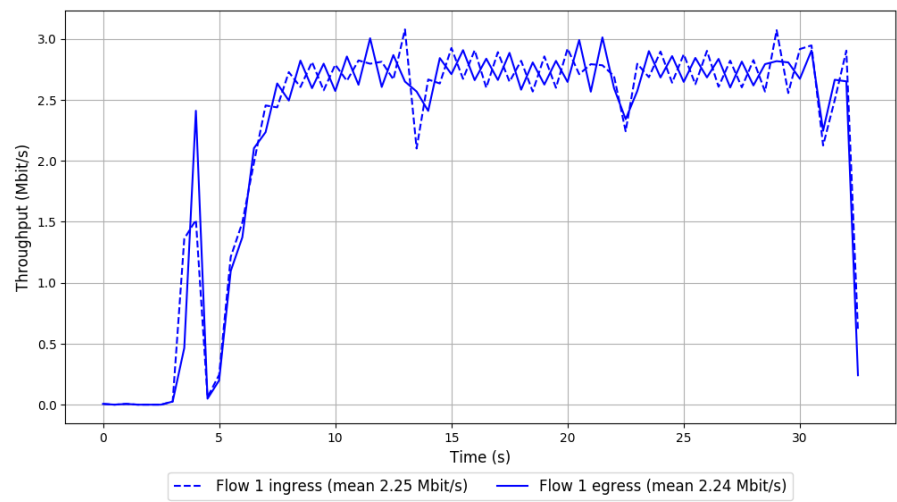
-- Flow 1:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 63.910 ms

Loss rate: 0.56%

Run 10: Report of WebRTC media — Data Link

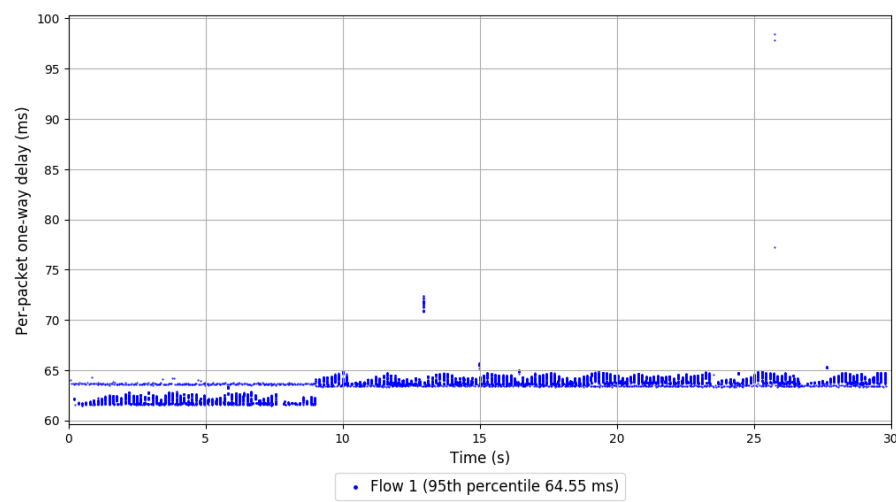
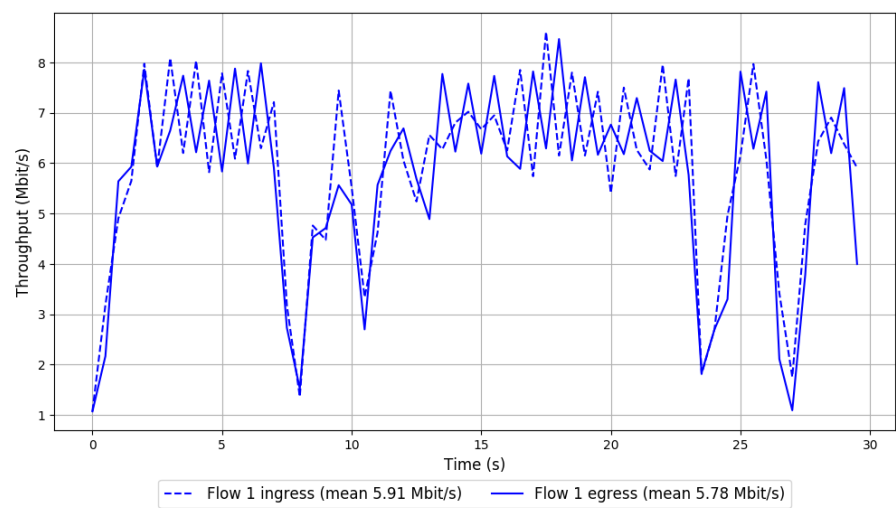


```
Run 1: Statistics of Sprout

Start at: 2018-01-16 22:30:35
End at: 2018-01-16 22:31:05

# Below is generated by plot.py at 2018-01-17 03:36:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 5.78 Mbit/s
95th percentile per-packet one-way delay: 64.550 ms
Loss rate: 2.65%
-- Flow 1:
Average throughput: 5.78 Mbit/s
95th percentile per-packet one-way delay: 64.550 ms
Loss rate: 2.65%
```

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-01-16 22:45:04

End at: 2018-01-16 22:45:34

Below is generated by plot.py at 2018-01-17 03:36:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.14 Mbit/s

95th percentile per-packet one-way delay: 64.757 ms

Loss rate: 1.65%

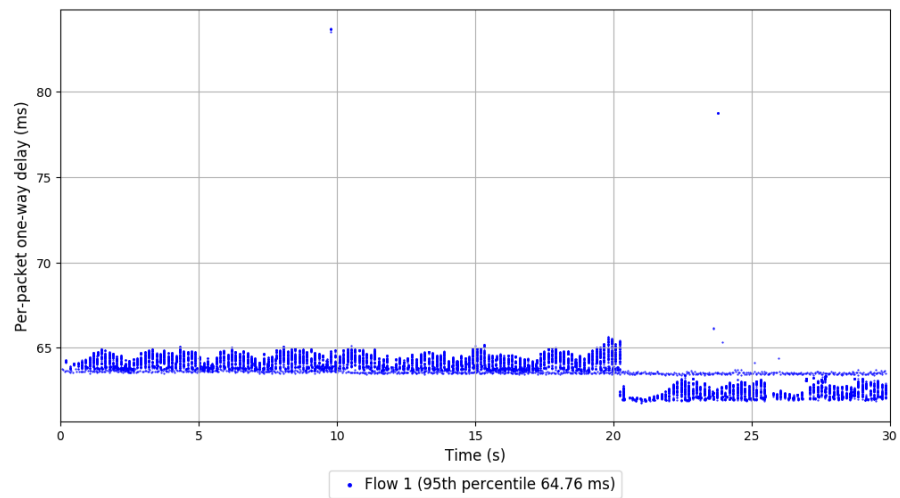
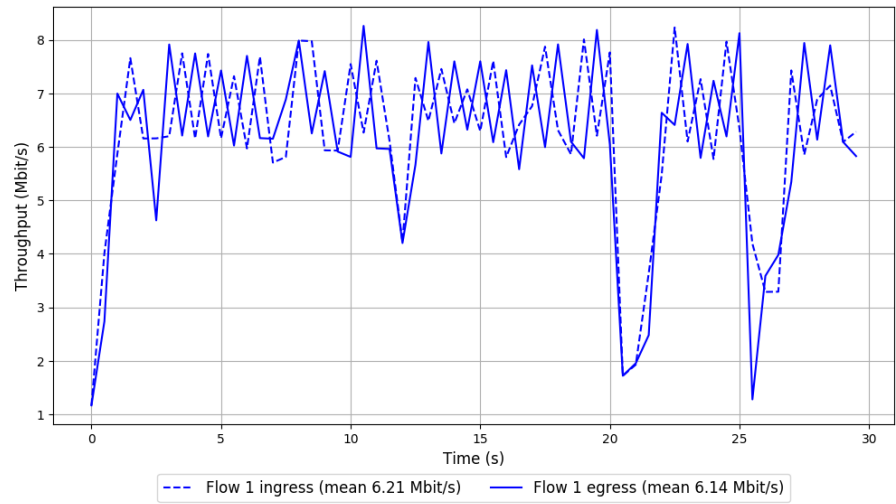
-- Flow 1:

Average throughput: 6.14 Mbit/s

95th percentile per-packet one-way delay: 64.757 ms

Loss rate: 1.65%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-01-16 22:59:41

End at: 2018-01-16 23:00:11

Below is generated by plot.py at 2018-01-17 03:36:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.34 Mbit/s

95th percentile per-packet one-way delay: 64.638 ms

Loss rate: 1.55%

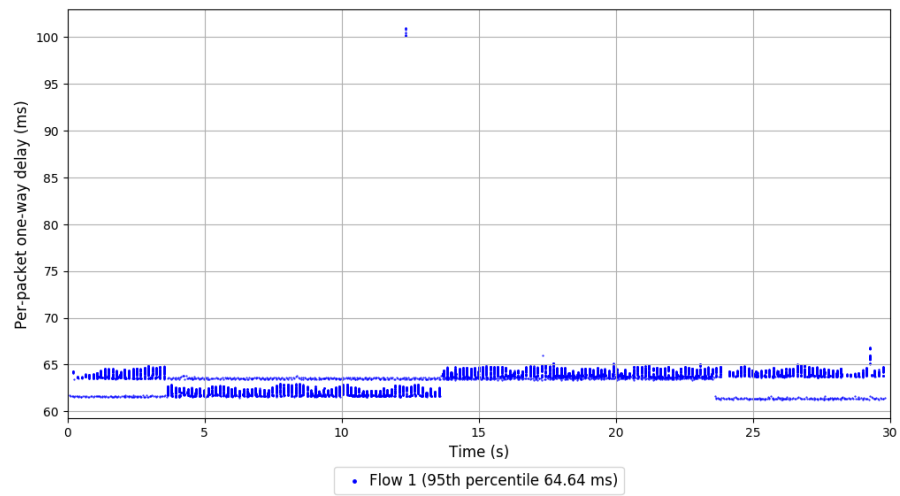
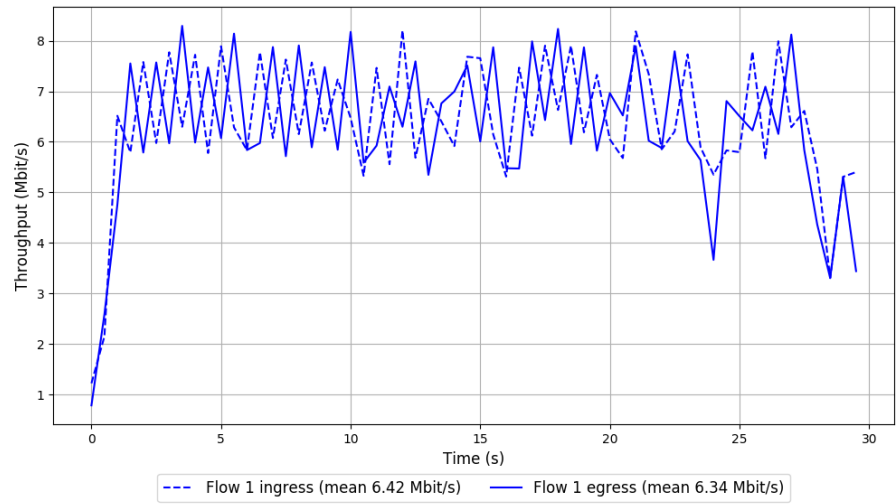
-- Flow 1:

Average throughput: 6.34 Mbit/s

95th percentile per-packet one-way delay: 64.638 ms

Loss rate: 1.55%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-01-16 23:13:43

End at: 2018-01-16 23:14:13

Below is generated by plot.py at 2018-01-17 03:36:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.89 Mbit/s

95th percentile per-packet one-way delay: 64.608 ms

Loss rate: 1.59%

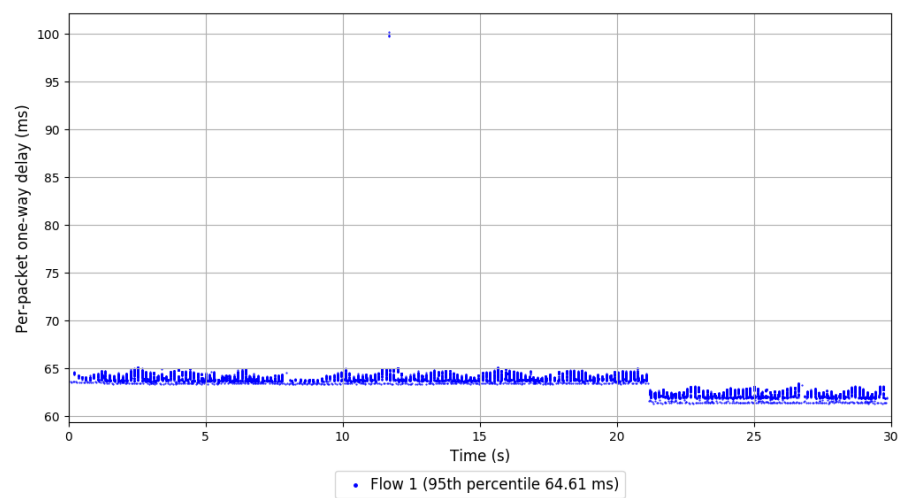
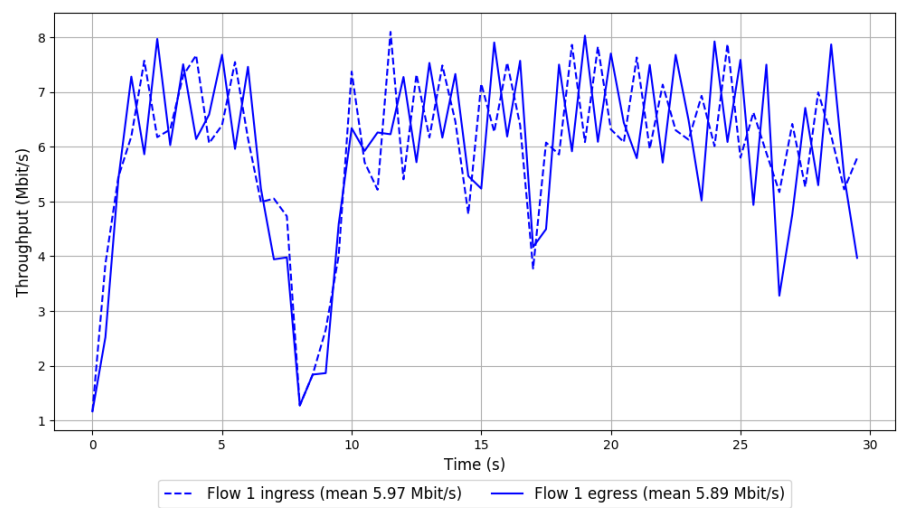
-- Flow 1:

Average throughput: 5.89 Mbit/s

95th percentile per-packet one-way delay: 64.608 ms

Loss rate: 1.59%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-01-16 23:28:01

End at: 2018-01-16 23:28:31

Below is generated by plot.py at 2018-01-17 03:36:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.39 Mbit/s

95th percentile per-packet one-way delay: 64.660 ms

Loss rate: 0.54%

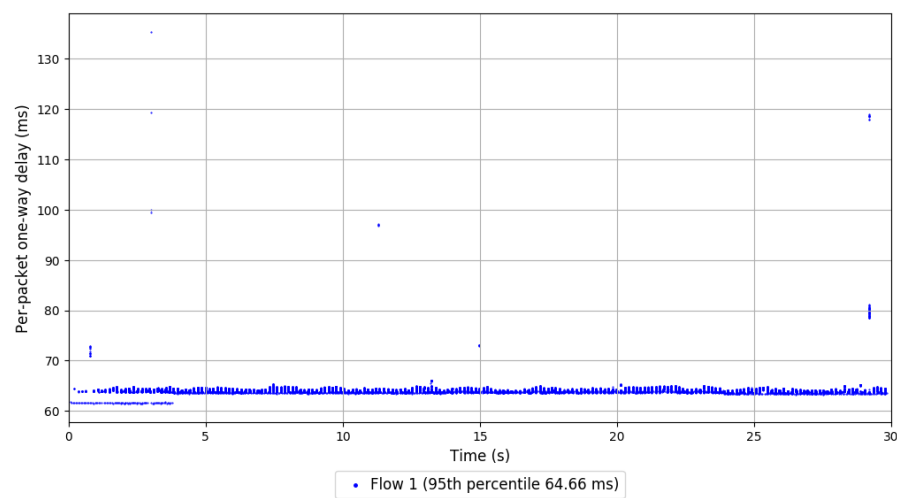
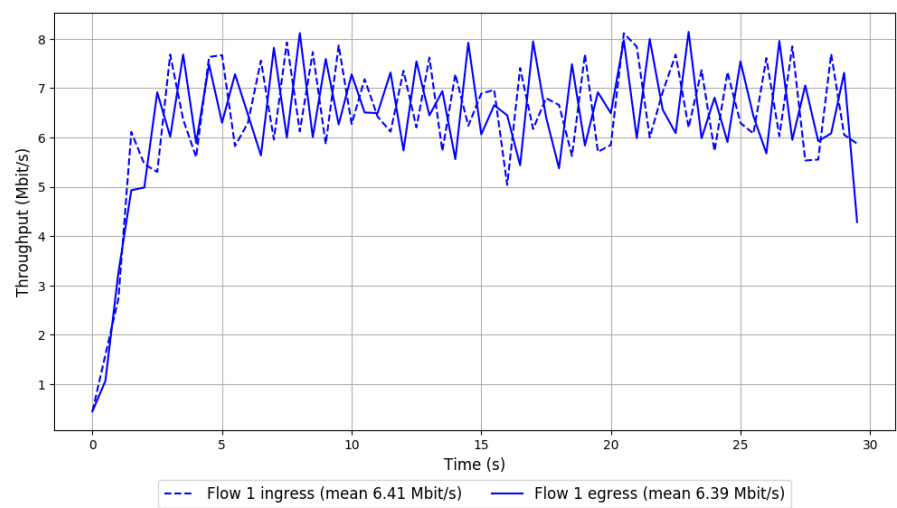
-- Flow 1:

Average throughput: 6.39 Mbit/s

95th percentile per-packet one-way delay: 64.660 ms

Loss rate: 0.54%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-01-16 23:42:17

End at: 2018-01-16 23:42:47

Below is generated by plot.py at 2018-01-17 03:36:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.88 Mbit/s

95th percentile per-packet one-way delay: 64.386 ms

Loss rate: 1.52%

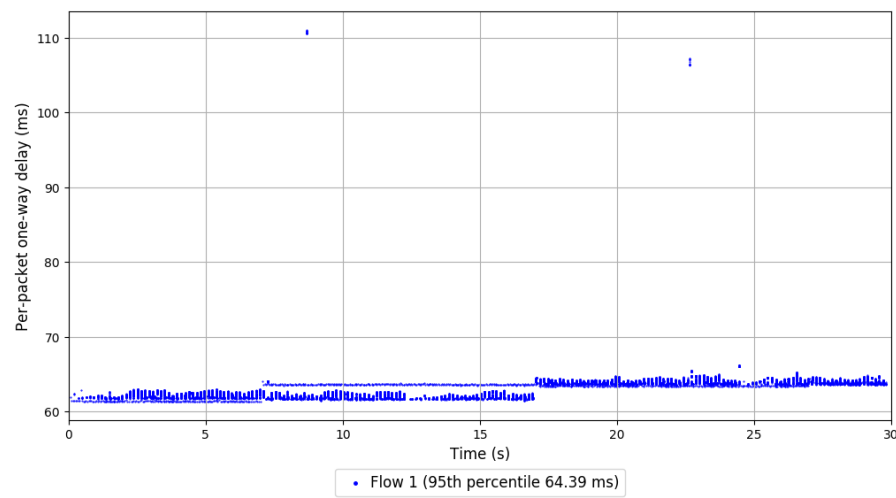
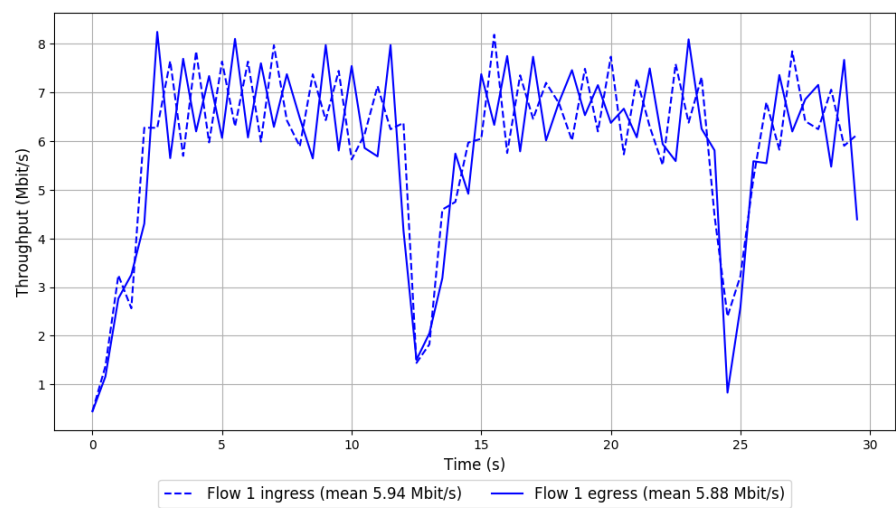
-- Flow 1:

Average throughput: 5.88 Mbit/s

95th percentile per-packet one-way delay: 64.386 ms

Loss rate: 1.52%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-01-16 23:56:38

End at: 2018-01-16 23:57:08

Below is generated by plot.py at 2018-01-17 03:36:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.53 Mbit/s

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

Loss rate: 0.45%

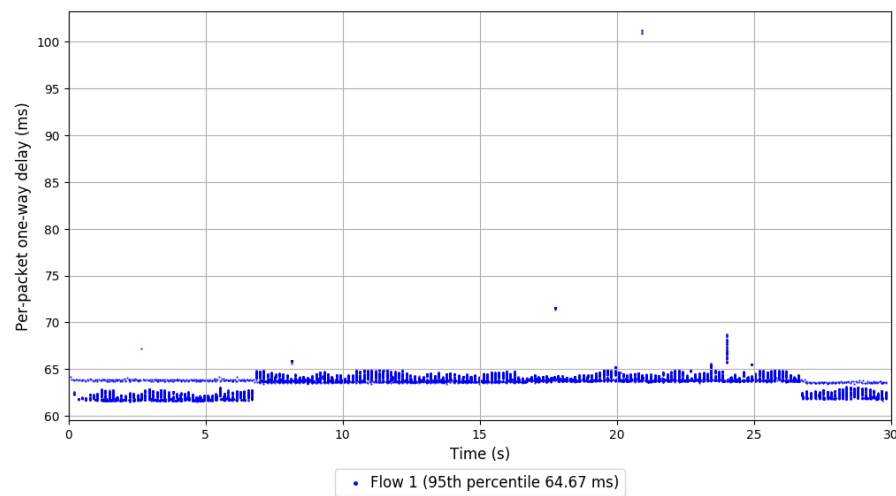
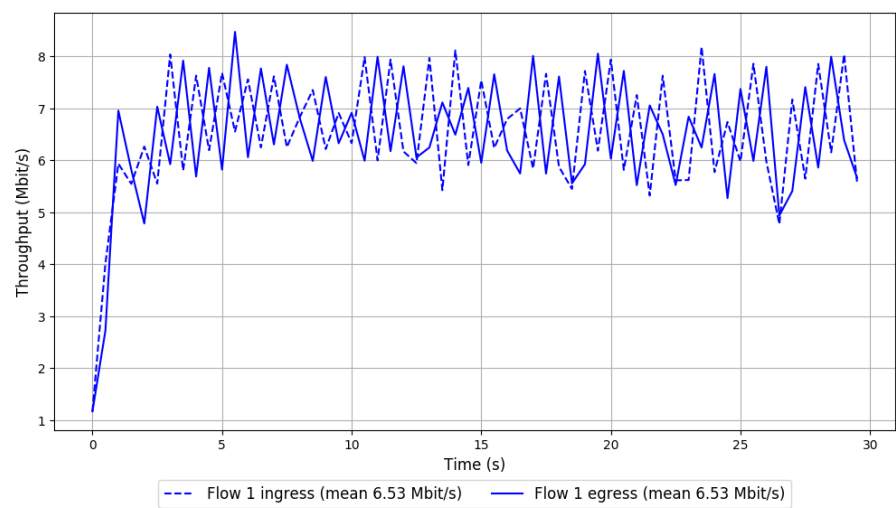
-- Flow 1:

Average throughput: 6.53 Mbit/s

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

Loss rate: 0.45%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-01-17 00:10:44

End at: 2018-01-17 00:11:14

Below is generated by plot.py at 2018-01-17 03:36:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.44 Mbit/s

95th percentile per-packet one-way delay: 64.272 ms

Loss rate: 0.51%

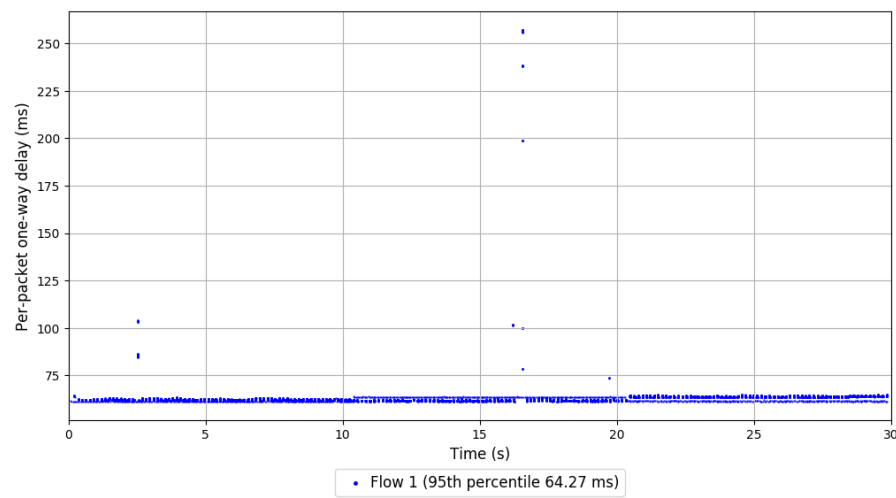
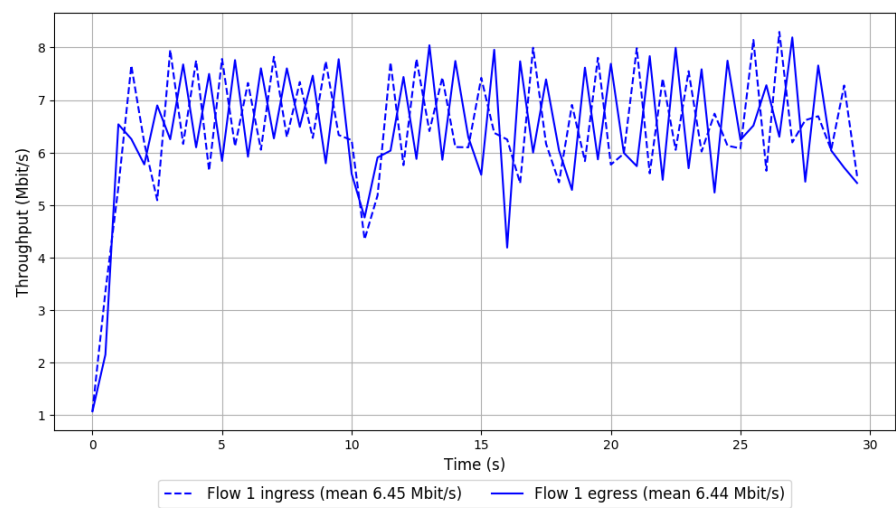
-- Flow 1:

Average throughput: 6.44 Mbit/s

95th percentile per-packet one-way delay: 64.272 ms

Loss rate: 0.51%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-01-17 00:25:05

End at: 2018-01-17 00:25:35

Below is generated by plot.py at 2018-01-17 03:36:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.42 Mbit/s

95th percentile per-packet one-way delay: 64.566 ms

Loss rate: 0.98%

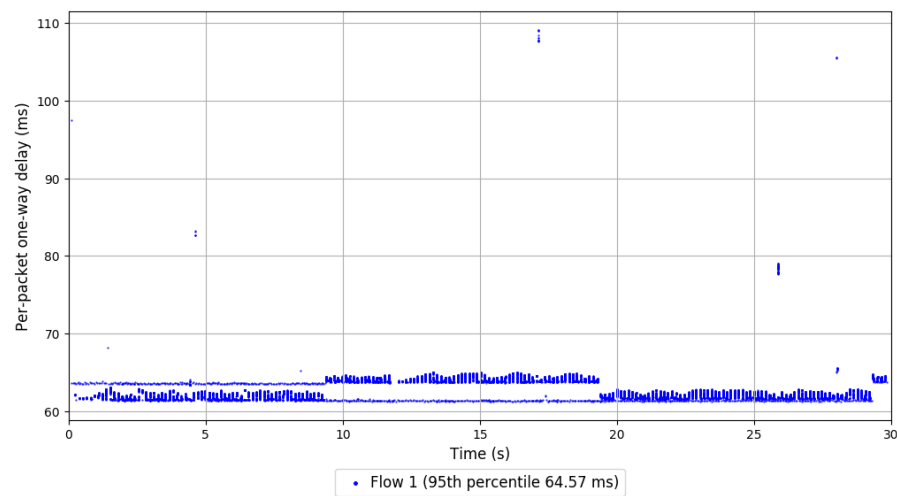
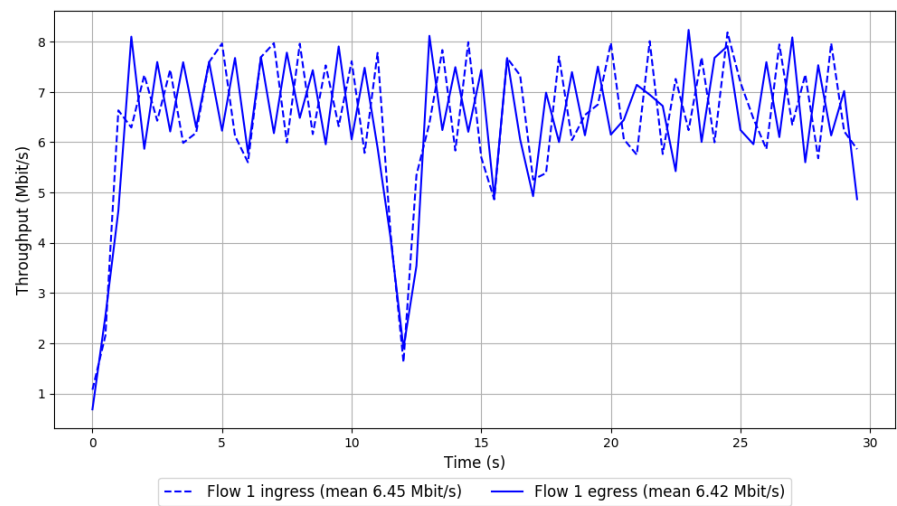
-- Flow 1:

Average throughput: 6.42 Mbit/s

95th percentile per-packet one-way delay: 64.566 ms

Loss rate: 0.98%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-01-17 00:39:27

End at: 2018-01-17 00:39:57

Below is generated by plot.py at 2018-01-17 03:36:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.28 Mbit/s

95th percentile per-packet one-way delay: 64.616 ms

Loss rate: 1.99%

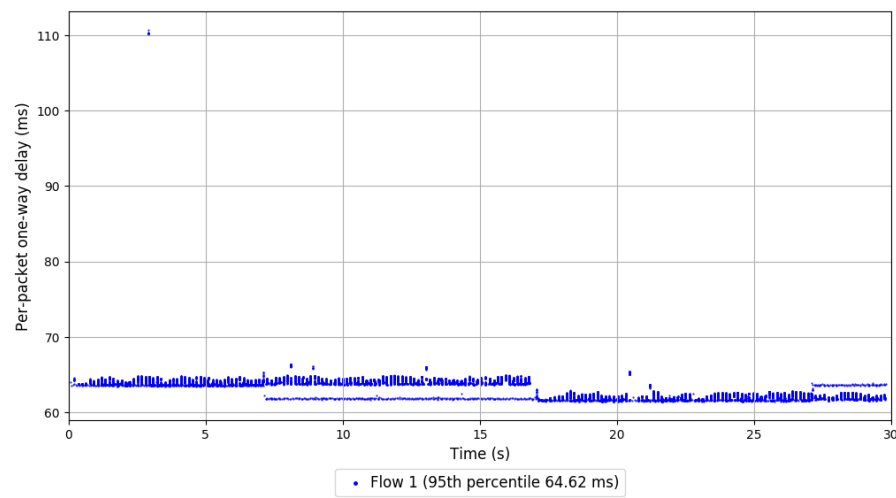
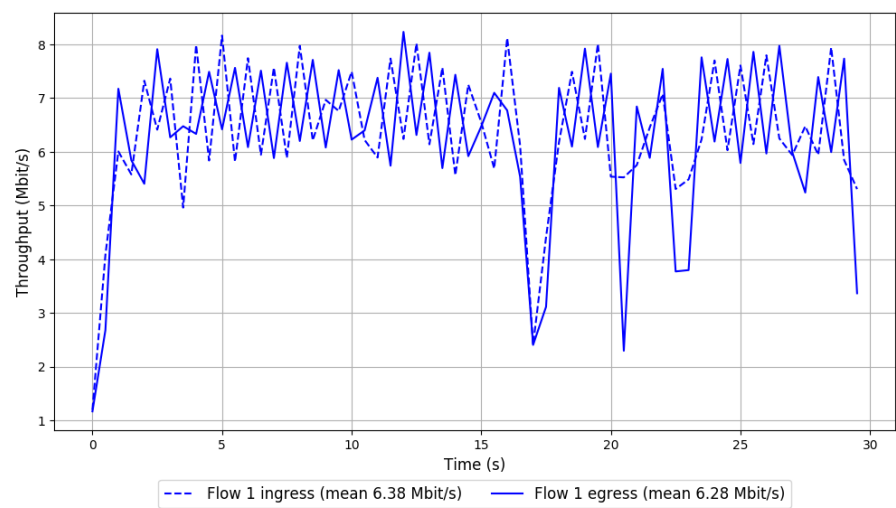
-- Flow 1:

Average throughput: 6.28 Mbit/s

95th percentile per-packet one-way delay: 64.616 ms

Loss rate: 1.99%

Run 10: Report of Sprout — Data Link

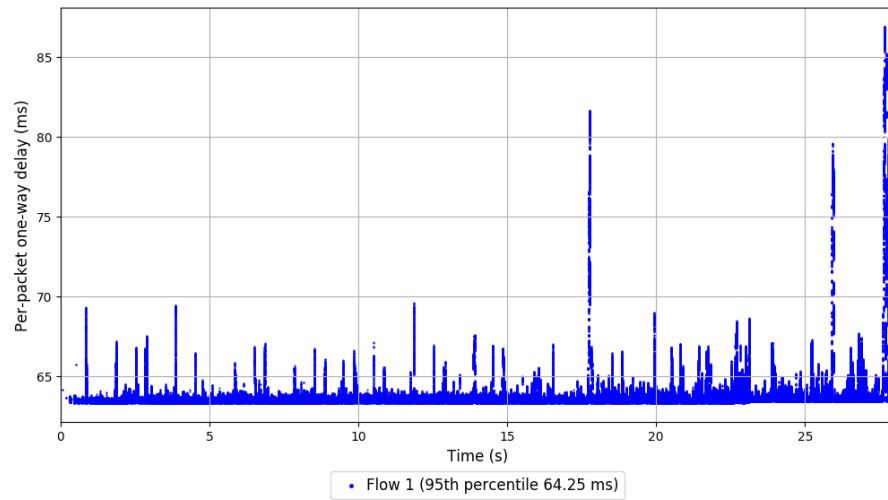
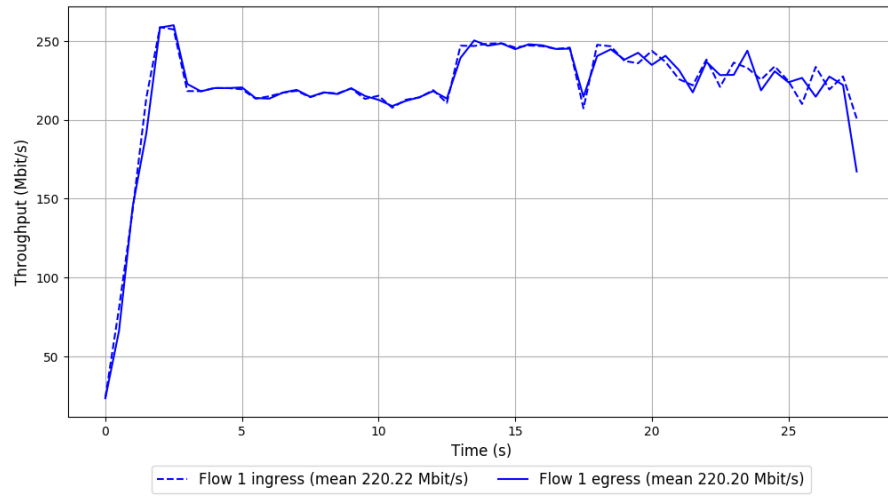


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-01-16 22:33:49
End at: 2018-01-16 22:34:19

# Below is generated by plot.py at 2018-01-17 03:37:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 220.20 Mbit/s
95th percentile per-packet one-way delay: 64.251 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 220.20 Mbit/s
95th percentile per-packet one-way delay: 64.251 ms
Loss rate: 0.52%
```


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

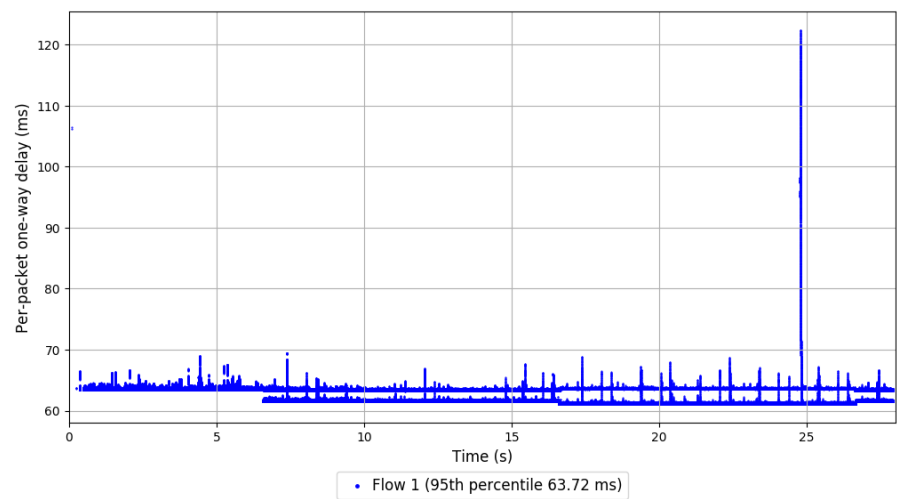
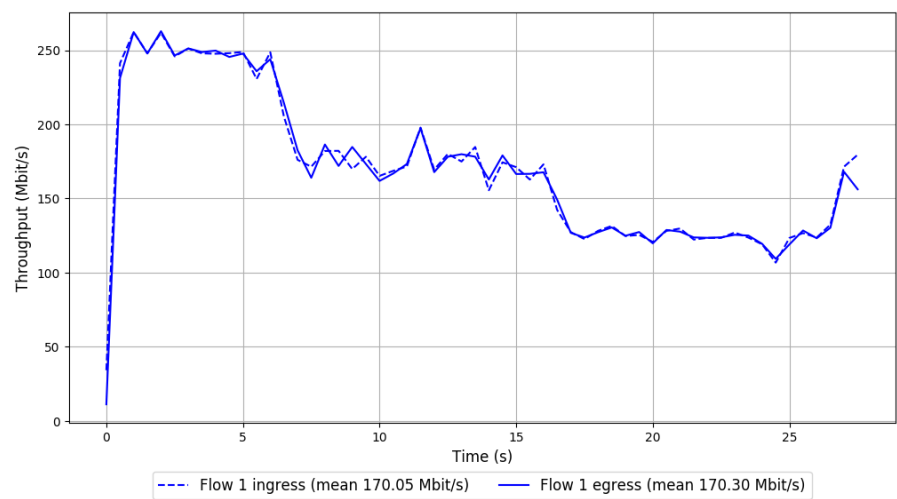


```
Run 2: Statistics of TaoVA-100x

Start at: 2018-01-16 22:48:16
End at: 2018-01-16 22:48:46

# Below is generated by plot.py at 2018-01-17 03:37:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 170.30 Mbit/s
95th percentile per-packet one-way delay: 63.721 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 170.30 Mbit/s
95th percentile per-packet one-way delay: 63.721 ms
Loss rate: 0.47%
```

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

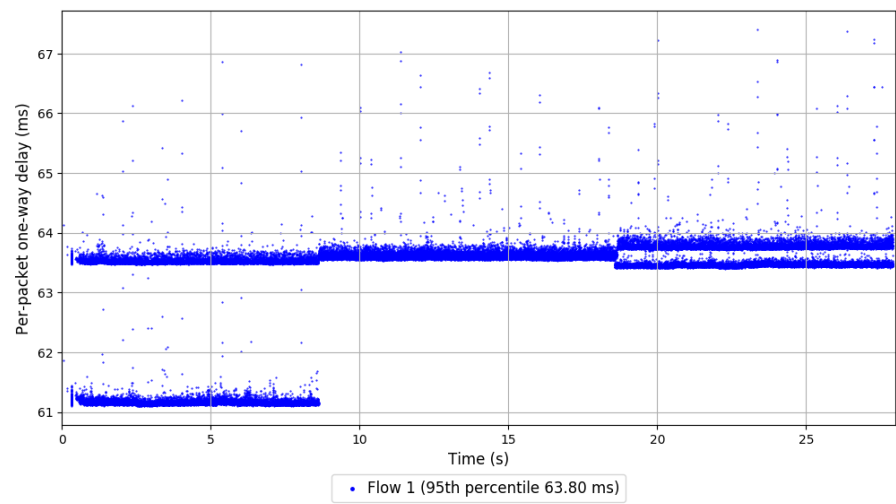
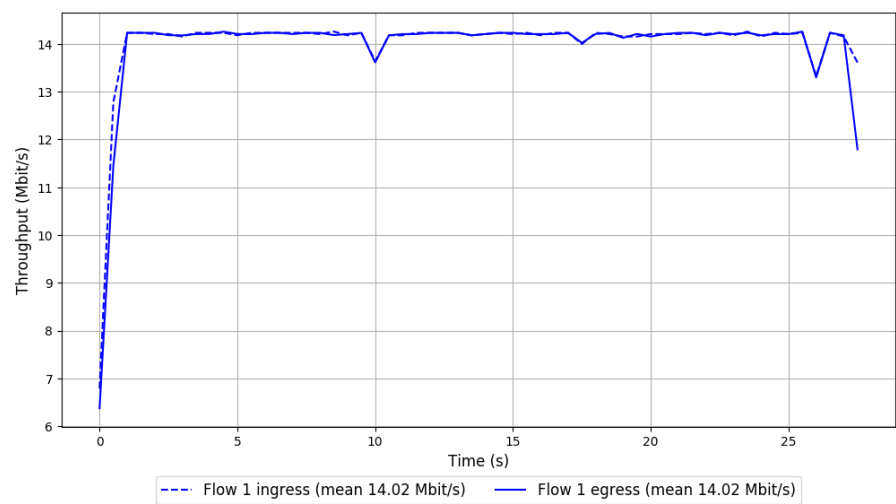


```
Run 3: Statistics of TaoVA-100x

Start at: 2018-01-16 23:02:54
End at: 2018-01-16 23:03:24

# Below is generated by plot.py at 2018-01-17 03:37:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 14.02 Mbit/s
95th percentile per-packet one-way delay: 63.800 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 14.02 Mbit/s
95th percentile per-packet one-way delay: 63.800 ms
Loss rate: 0.46%
```

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-01-16 23:16:47

End at: 2018-01-16 23:17:17

Below is generated by plot.py at 2018-01-17 03:37:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 222.55 Mbit/s

95th percentile per-packet one-way delay: 63.800 ms

Loss rate: 0.31%

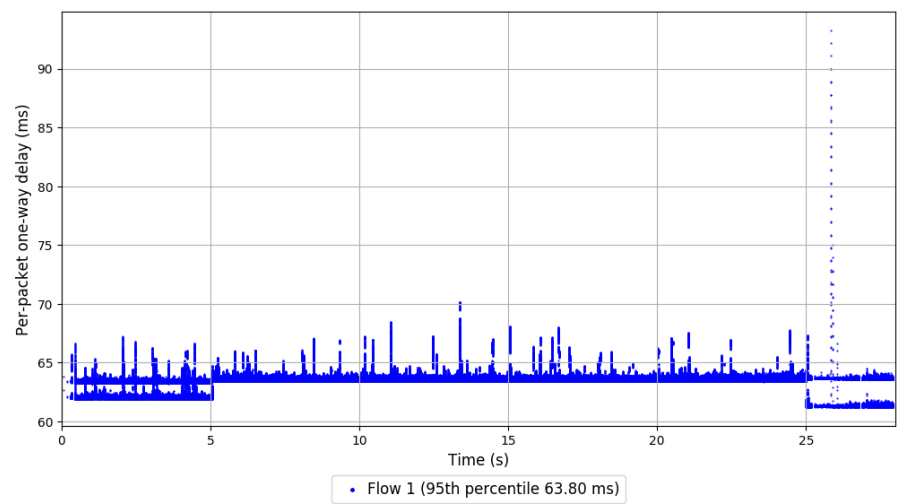
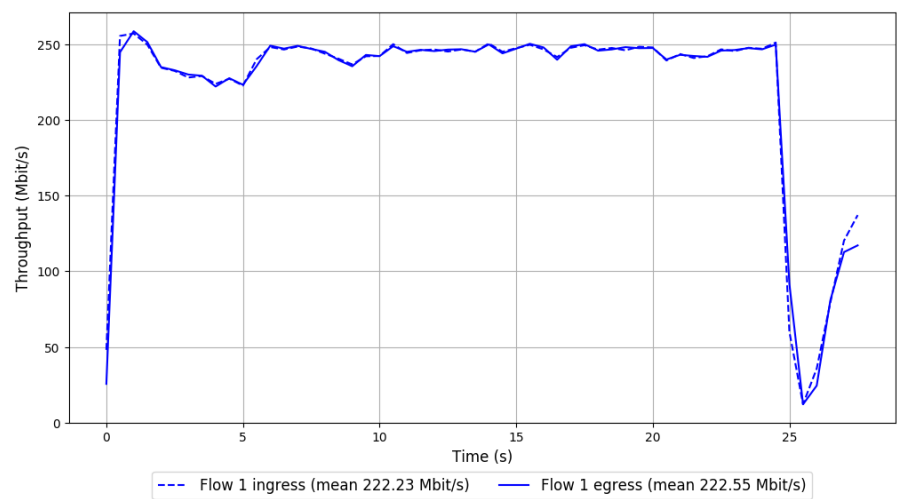
-- Flow 1:

Average throughput: 222.55 Mbit/s

95th percentile per-packet one-way delay: 63.800 ms

Loss rate: 0.31%

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

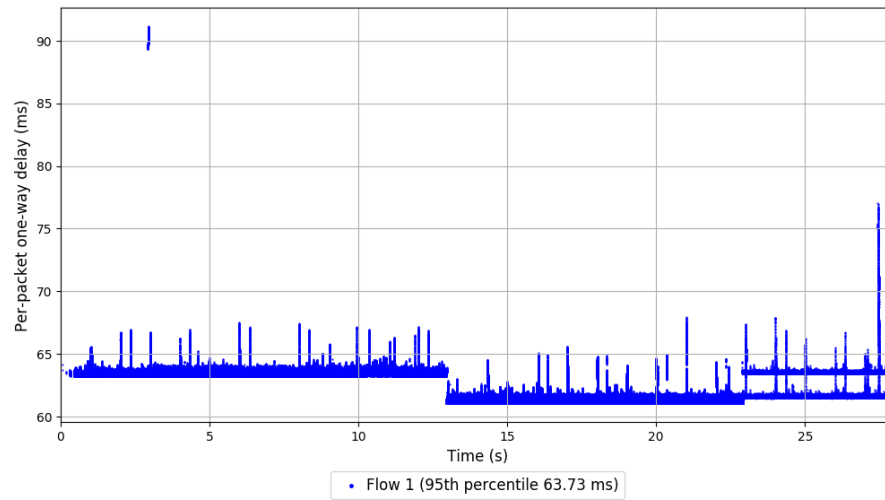
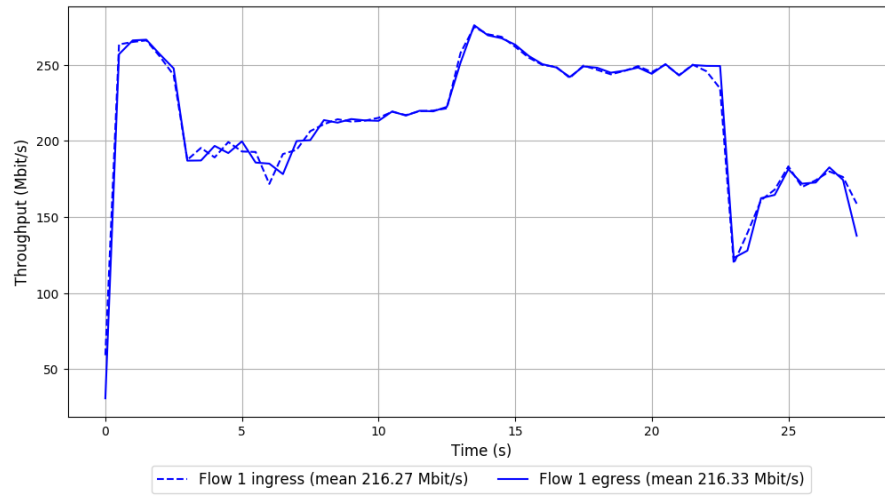


```
Run 5: Statistics of TaoVA-100x

Start at: 2018-01-16 23:31:09
End at: 2018-01-16 23:31:40

# Below is generated by plot.py at 2018-01-17 03:37:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 216.33 Mbit/s
95th percentile per-packet one-way delay: 63.735 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 216.33 Mbit/s
95th percentile per-packet one-way delay: 63.735 ms
Loss rate: 0.43%
```


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



Run 6: Statistics of TaoVA-100x

Start at: 2018-01-16 23:45:30

End at: 2018-01-16 23:46:00

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

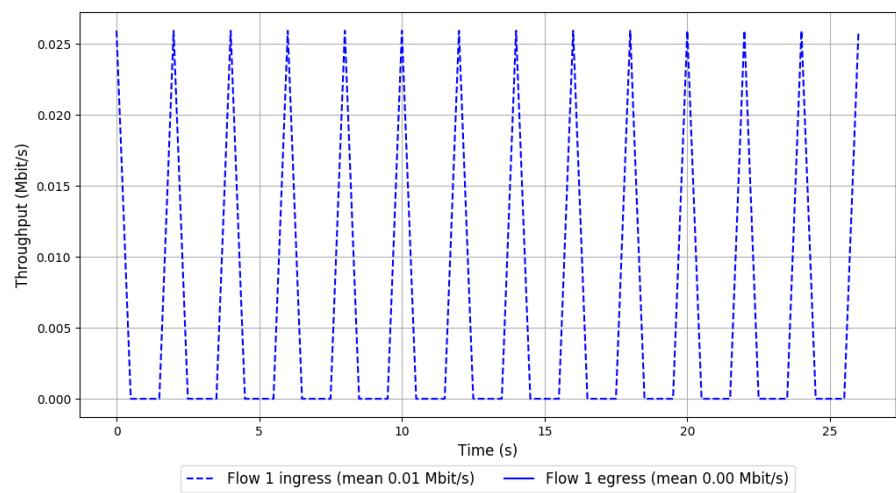


Figure is missing

Run 7: Statistics of TaoVA-100x

Start at: 2018-01-16 23:59:49

End at: 2018-01-17 00:00:19

Below is generated by plot.py at 2018-01-17 03:37:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 43.67 Mbit/s

95th percentile per-packet one-way delay: 63.722 ms

Loss rate: 0.93%

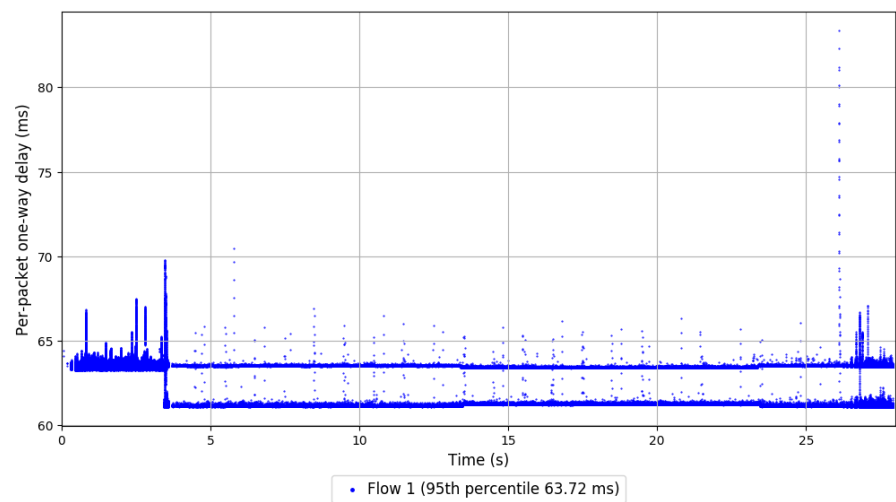
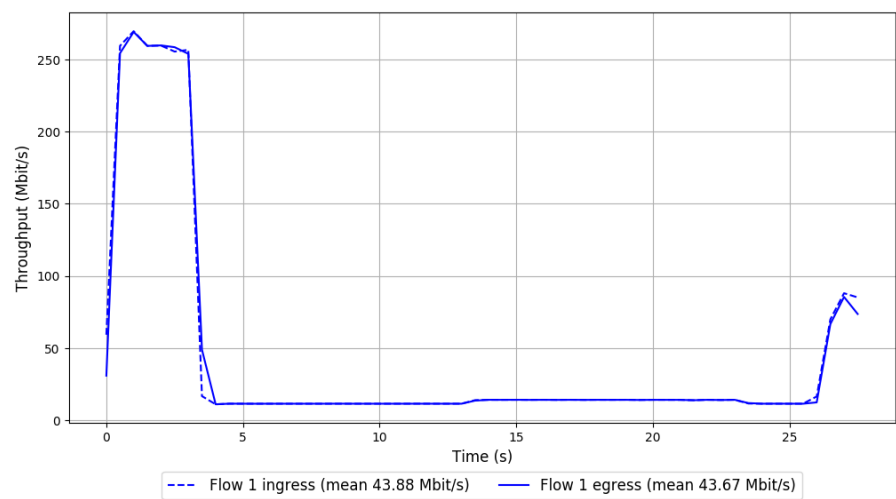
-- Flow 1:

Average throughput: 43.67 Mbit/s

95th percentile per-packet one-way delay: 63.722 ms

Loss rate: 0.93%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-01-17 00:13:57

End at: 2018-01-17 00:14:27

Below is generated by plot.py at 2018-01-17 03:37:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 183.71 Mbit/s

95th percentile per-packet one-way delay: 63.590 ms

Loss rate: 0.68%

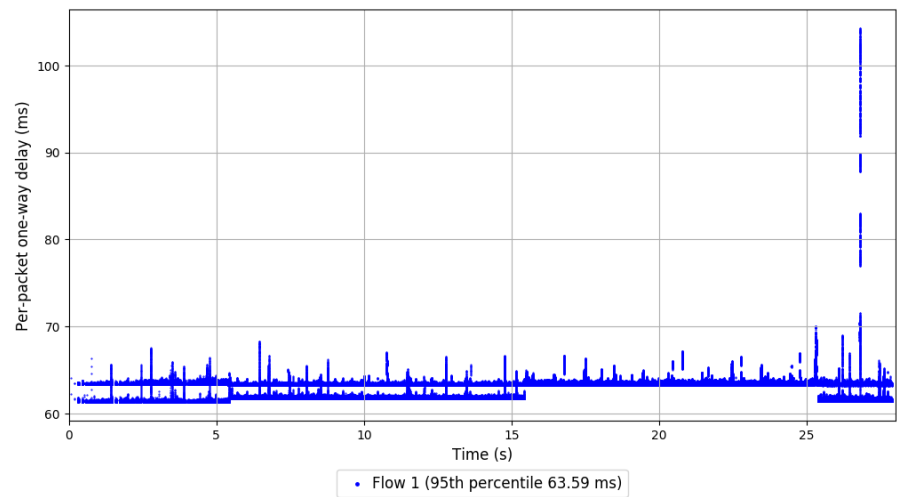
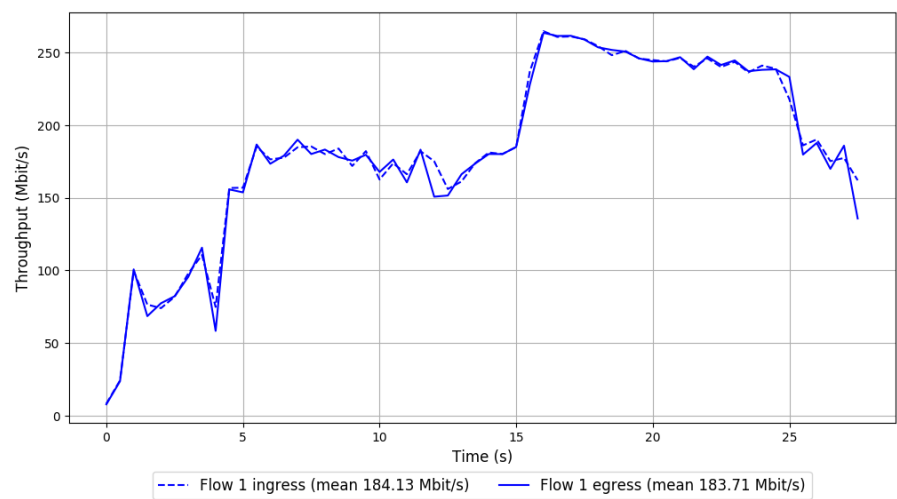
-- Flow 1:

Average throughput: 183.71 Mbit/s

95th percentile per-packet one-way delay: 63.590 ms

Loss rate: 0.68%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-01-17 00:28:07

End at: 2018-01-17 00:28:37

Below is generated by plot.py at 2018-01-17 03:40:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 232.54 Mbit/s

95th percentile per-packet one-way delay: 63.751 ms

Loss rate: 0.49%

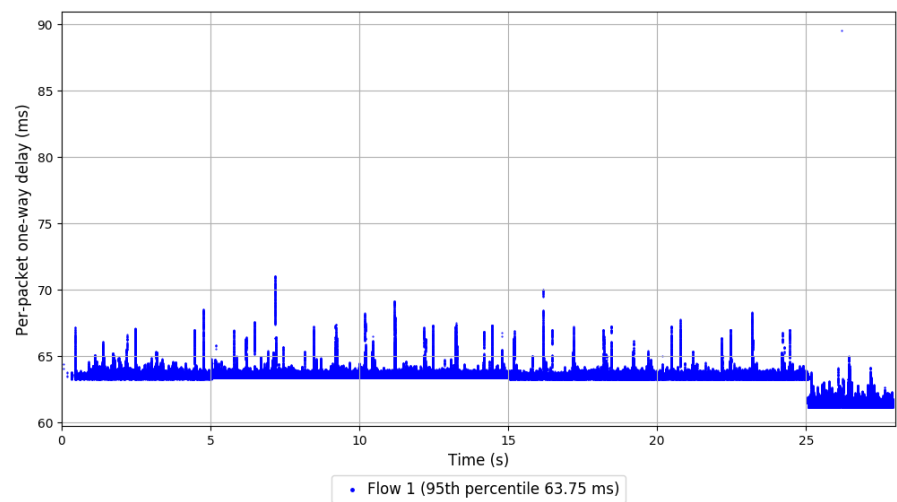
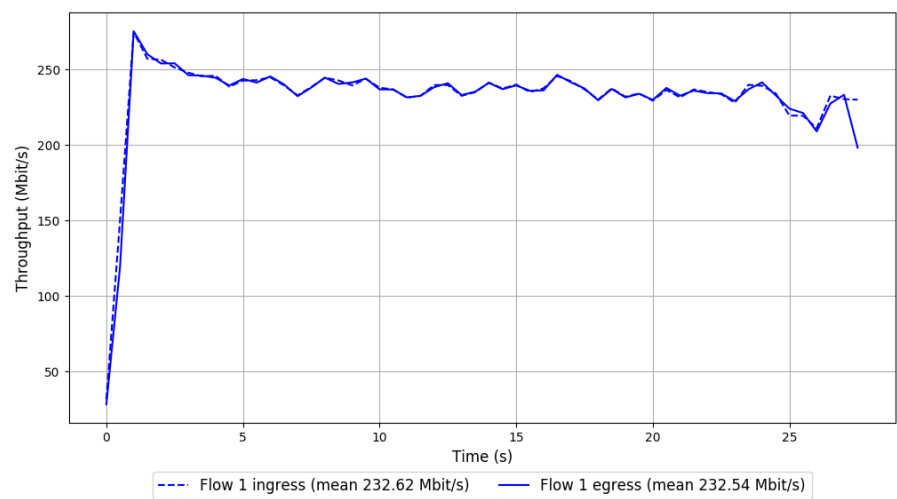
-- Flow 1:

Average throughput: 232.54 Mbit/s

95th percentile per-packet one-way delay: 63.751 ms

Loss rate: 0.49%

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

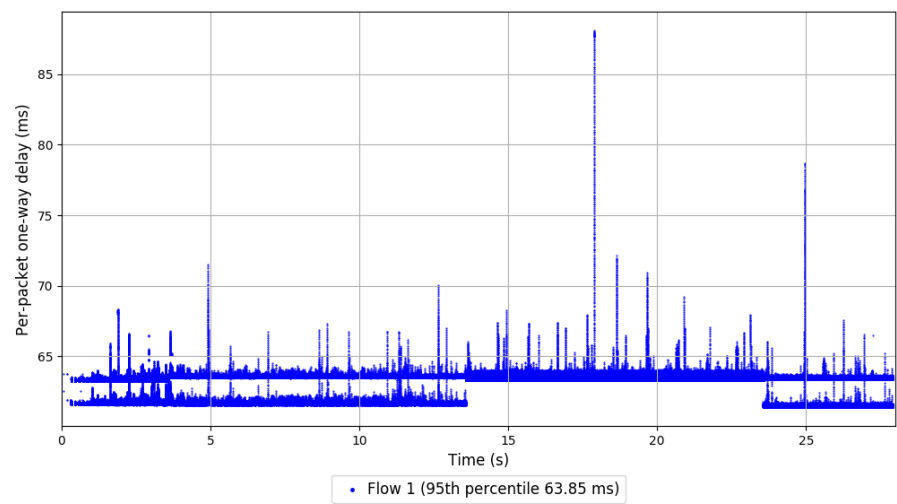
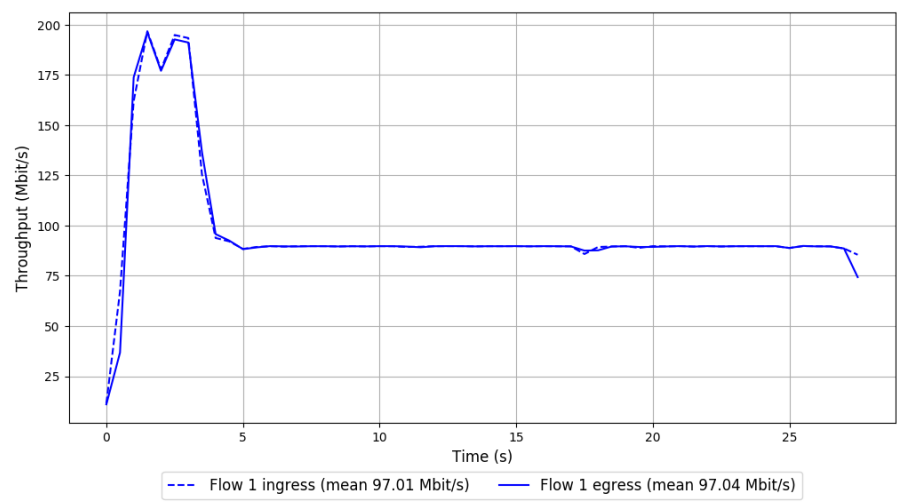


```
Run 10: Statistics of TaoVA-100x

Start at: 2018-01-17 00:42:39
End at: 2018-01-17 00:43:09

# Below is generated by plot.py at 2018-01-17 03:40:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.04 Mbit/s
95th percentile per-packet one-way delay: 63.846 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 97.04 Mbit/s
95th percentile per-packet one-way delay: 63.846 ms
Loss rate: 0.42%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2018-01-16 22:29:10

End at: 2018-01-16 22:29:40

Below is generated by plot.py at 2018-01-17 03:40:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 14.83 Mbit/s

95th percentile per-packet one-way delay: 64.404 ms

Loss rate: 2.06%

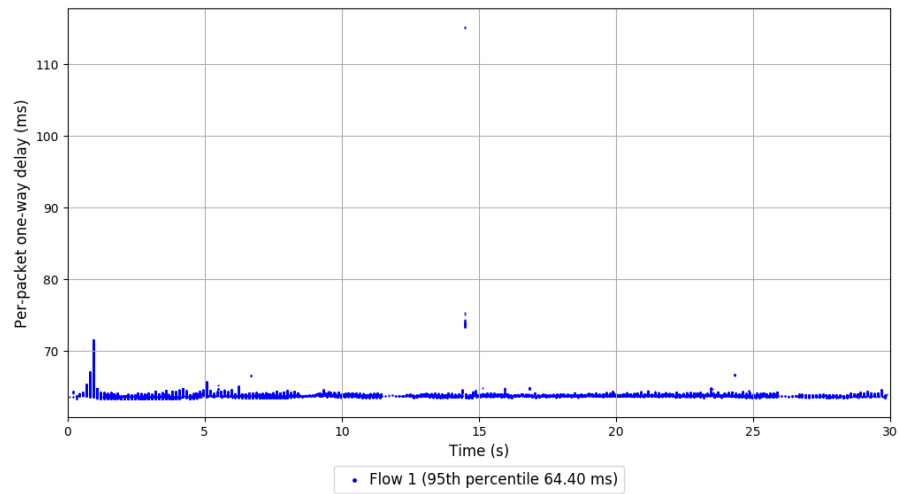
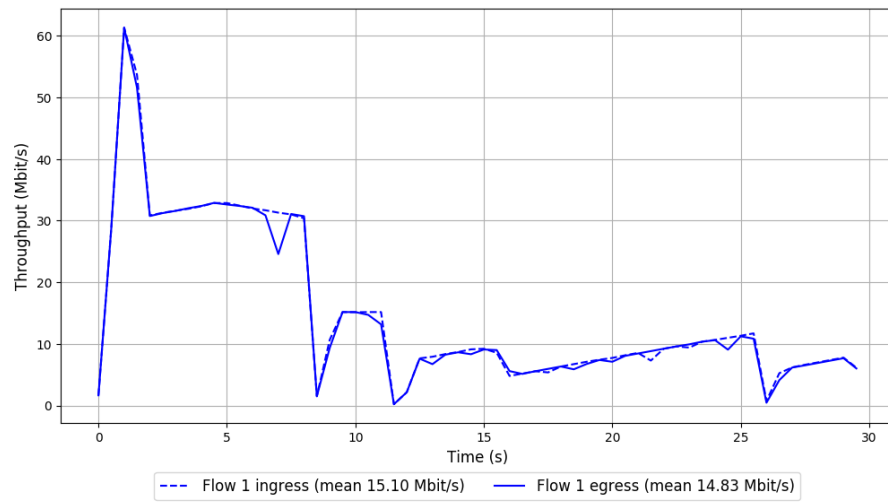
-- Flow 1:

Average throughput: 14.83 Mbit/s

95th percentile per-packet one-way delay: 64.404 ms

Loss rate: 2.06%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-01-16 22:43:39

End at: 2018-01-16 22:44:09

Below is generated by plot.py at 2018-01-17 03:40:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.37 Mbit/s

95th percentile per-packet one-way delay: 63.924 ms

Loss rate: 1.37%

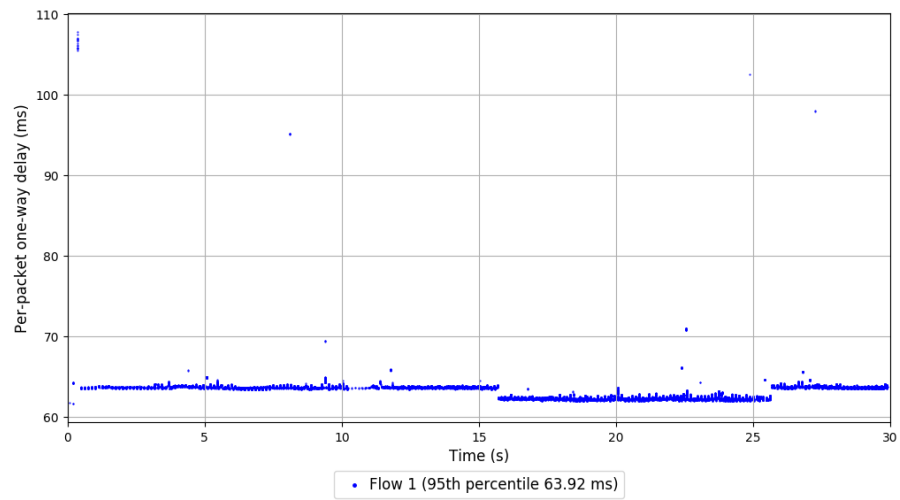
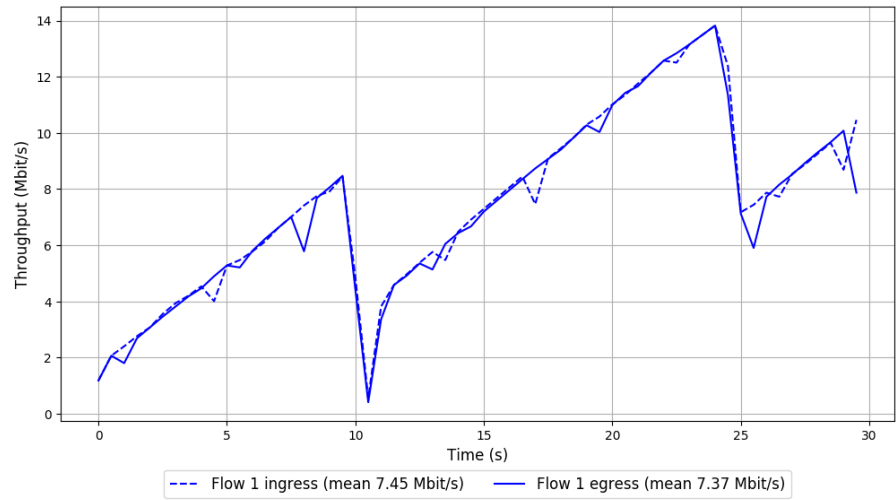
-- Flow 1:

Average throughput: 7.37 Mbit/s

95th percentile per-packet one-way delay: 63.924 ms

Loss rate: 1.37%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-01-16 22:58:14

End at: 2018-01-16 22:58:44

Below is generated by plot.py at 2018-01-17 03:40:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 41.49 Mbit/s

95th percentile per-packet one-way delay: 64.780 ms

Loss rate: 0.28%

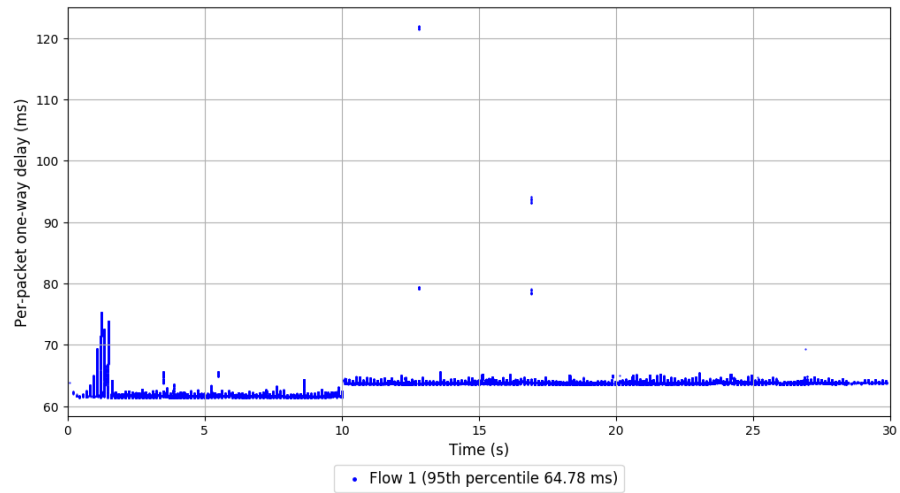
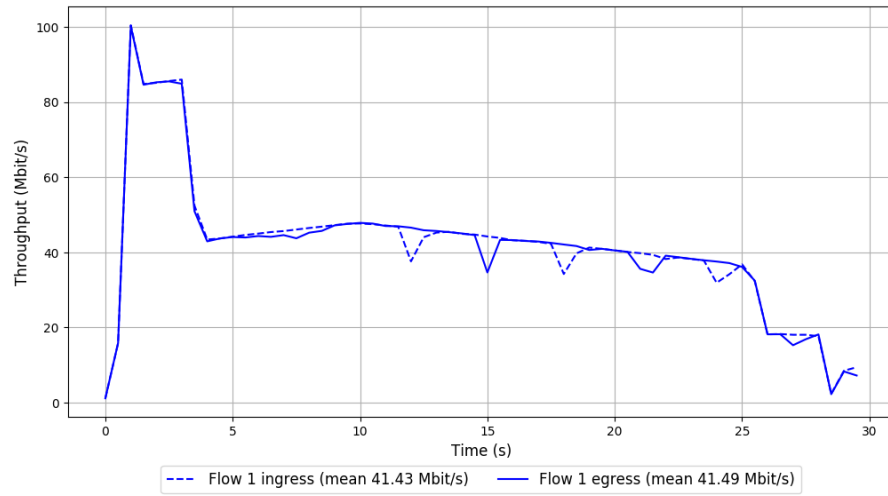
-- Flow 1:

Average throughput: 41.49 Mbit/s

95th percentile per-packet one-way delay: 64.780 ms

Loss rate: 0.28%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-01-16 23:12:17

End at: 2018-01-16 23:12:47

Below is generated by plot.py at 2018-01-17 03:40:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 27.68 Mbit/s

95th percentile per-packet one-way delay: 69.607 ms

Loss rate: 0.42%

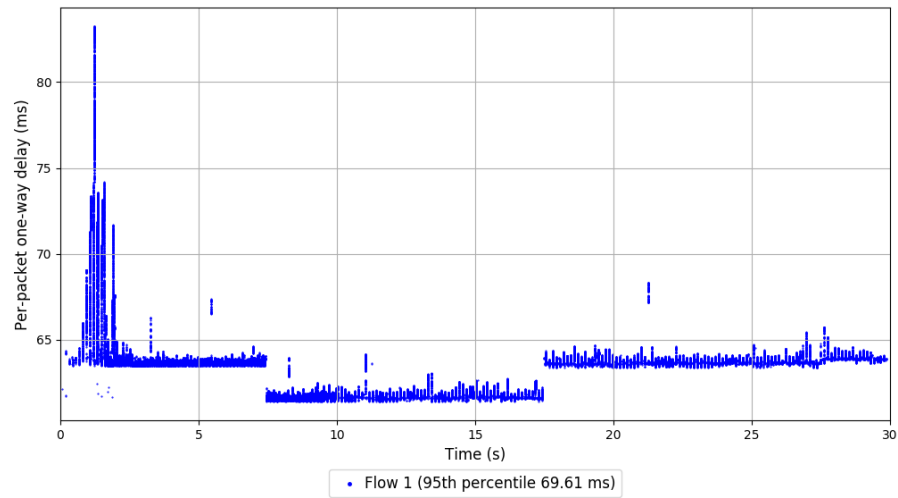
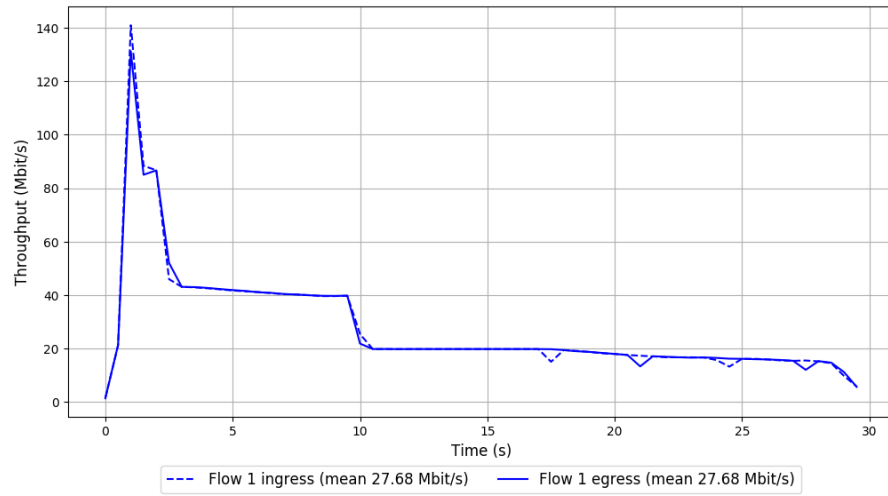
-- Flow 1:

Average throughput: 27.68 Mbit/s

95th percentile per-packet one-way delay: 69.607 ms

Loss rate: 0.42%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-01-16 23:26:34

End at: 2018-01-16 23:27:04

Below is generated by plot.py at 2018-01-17 03:40:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 42.63 Mbit/s

95th percentile per-packet one-way delay: 68.375 ms

Loss rate: 1.20%

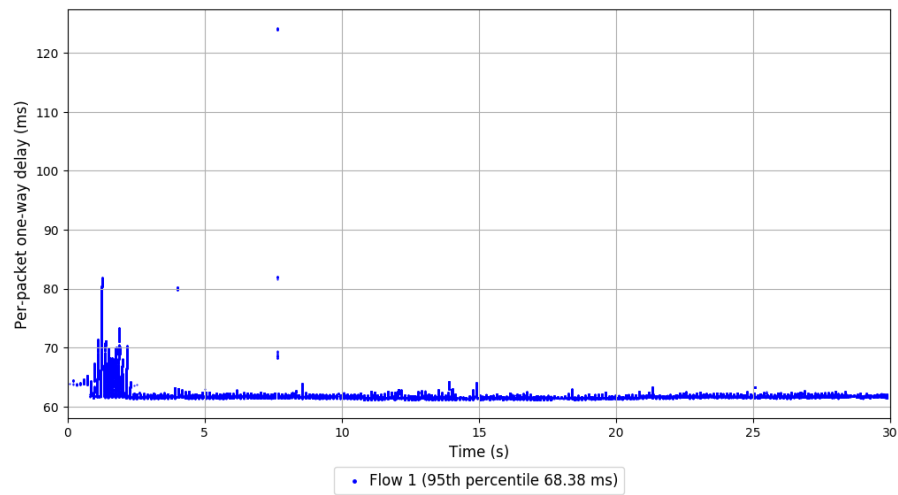
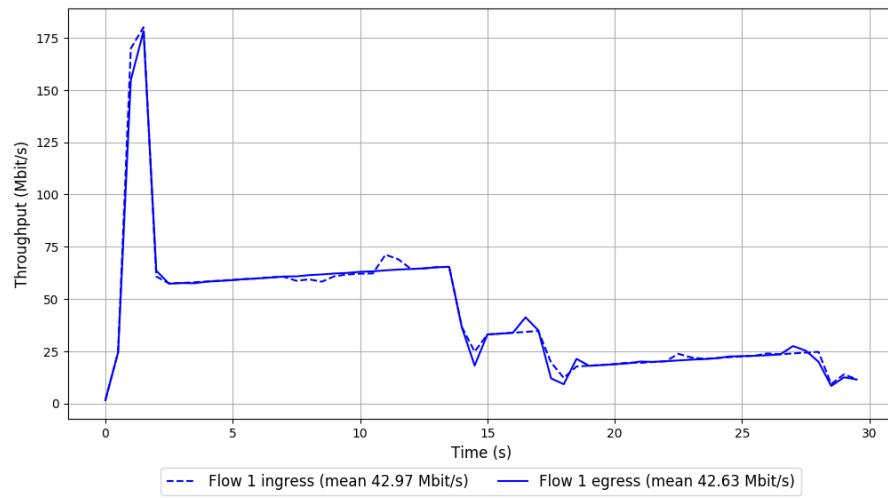
-- Flow 1:

Average throughput: 42.63 Mbit/s

95th percentile per-packet one-way delay: 68.375 ms

Loss rate: 1.20%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-01-16 23:40:51

End at: 2018-01-16 23:41:21

Below is generated by plot.py at 2018-01-17 03:40:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 17.04 Mbit/s

95th percentile per-packet one-way delay: 64.499 ms

Loss rate: 1.72%

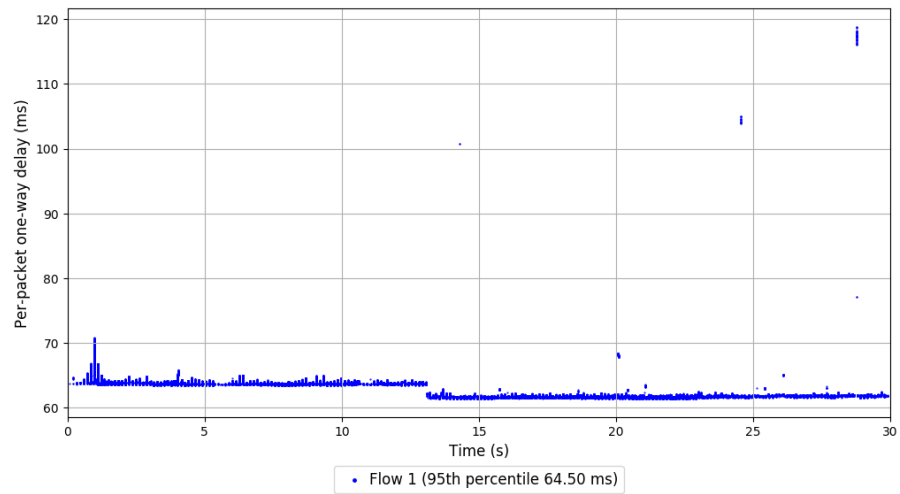
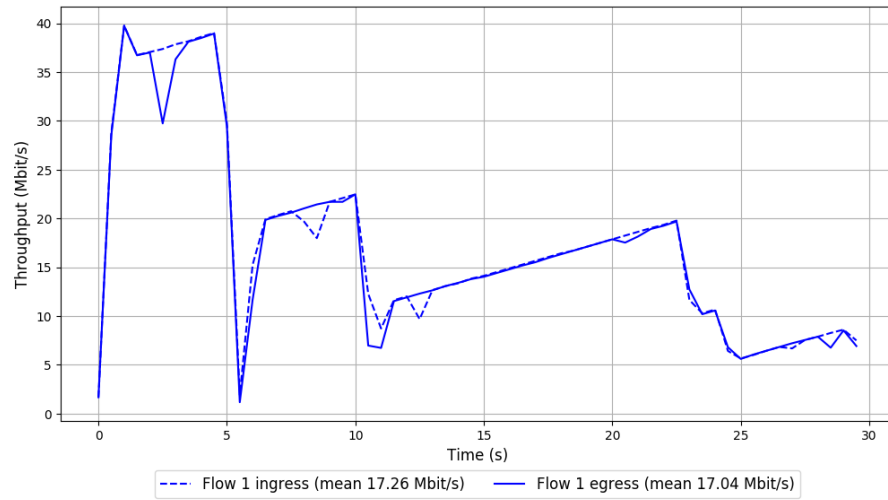
-- Flow 1:

Average throughput: 17.04 Mbit/s

95th percentile per-packet one-way delay: 64.499 ms

Loss rate: 1.72%

Run 6: Report of TCP Vegas — Data Link

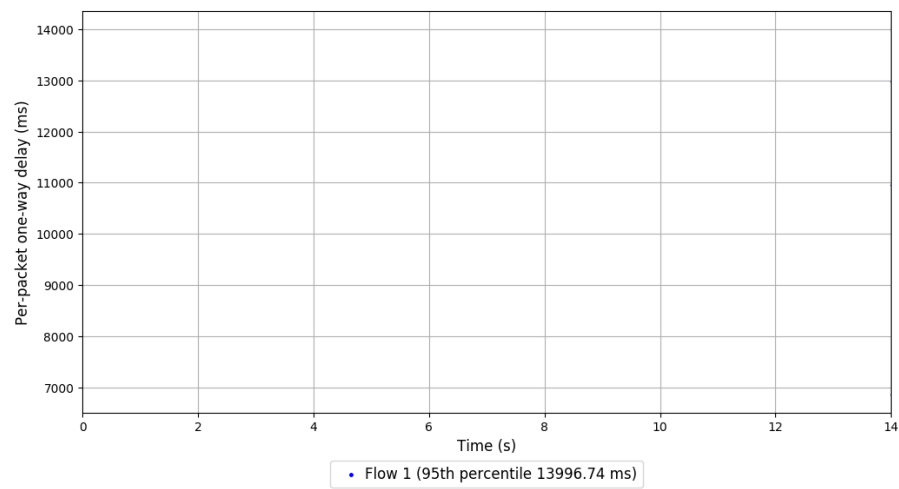
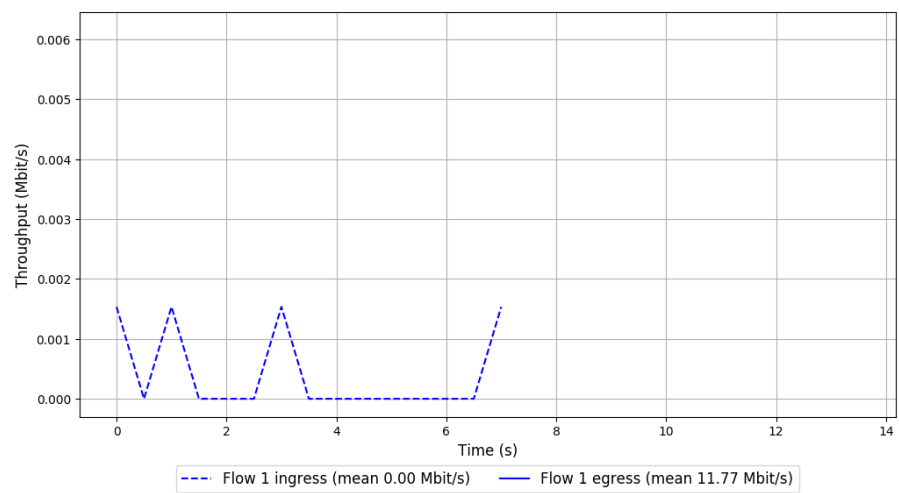


Run 7: Statistics of TCP Vegas

Start at: 2018-01-16 23:55:13

End at: 2018-01-16 23:55:43

Run 7: Report of TCP Vegas — Data Link

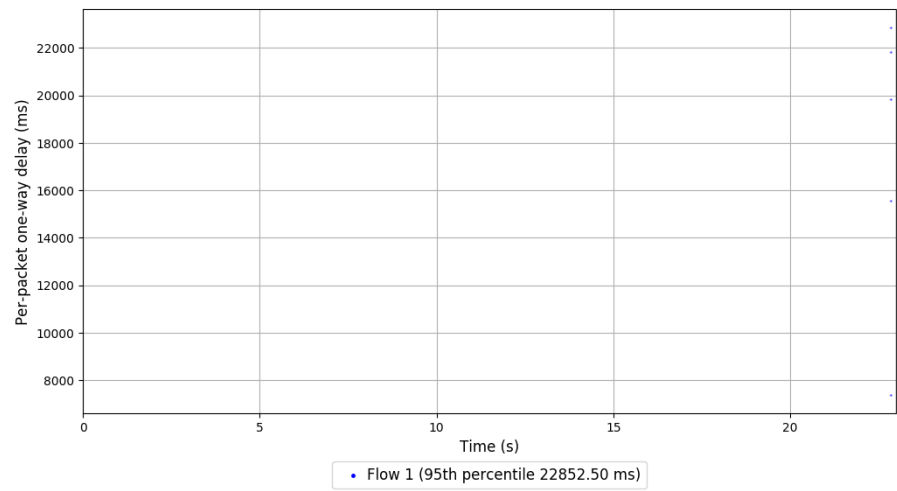
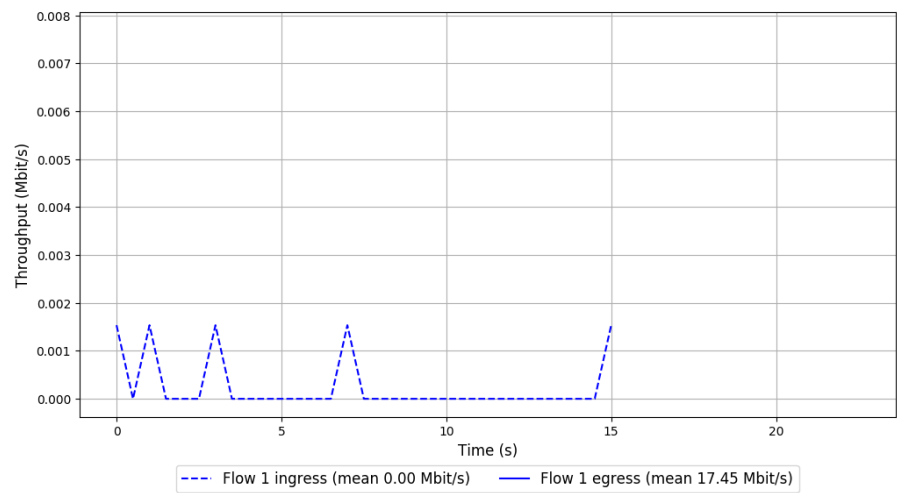


Run 8: Statistics of TCP Vegas

Start at: 2018-01-17 00:09:20

End at: 2018-01-17 00:09:50

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-01-17 00:23:39

End at: 2018-01-17 00:24:09

Below is generated by plot.py at 2018-01-17 03:40:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 19.99 Mbit/s

95th percentile per-packet one-way delay: 64.034 ms

Loss rate: 2.37%

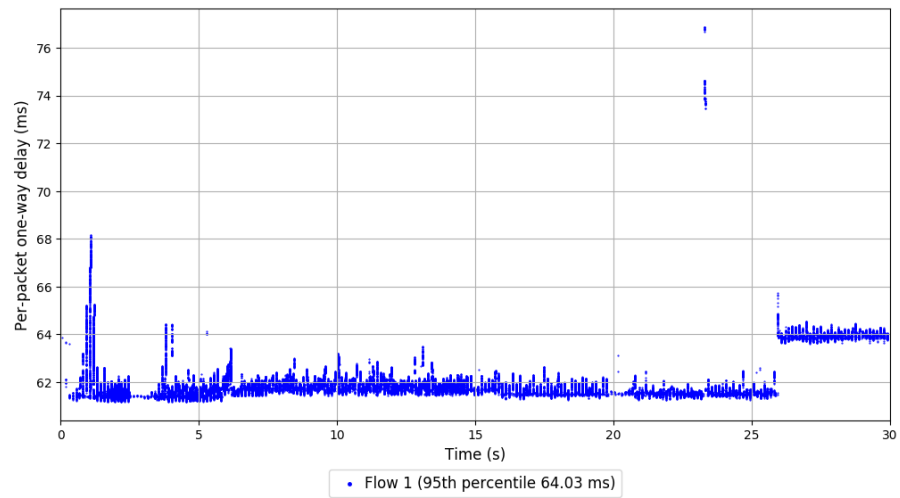
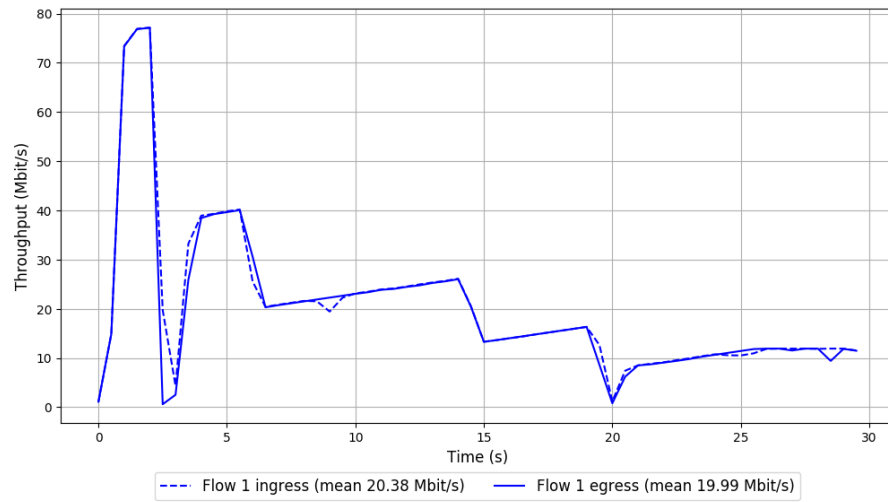
-- Flow 1:

Average throughput: 19.99 Mbit/s

95th percentile per-packet one-way delay: 64.034 ms

Loss rate: 2.37%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-01-17 00:38:01

End at: 2018-01-17 00:38:32

Below is generated by plot.py at 2018-01-17 03:40:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 16.50 Mbit/s

95th percentile per-packet one-way delay: 64.546 ms

Loss rate: 0.62%

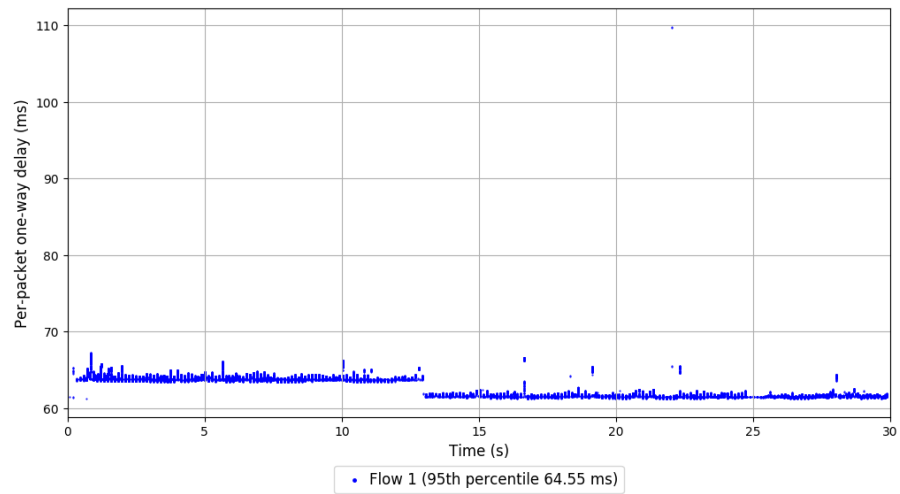
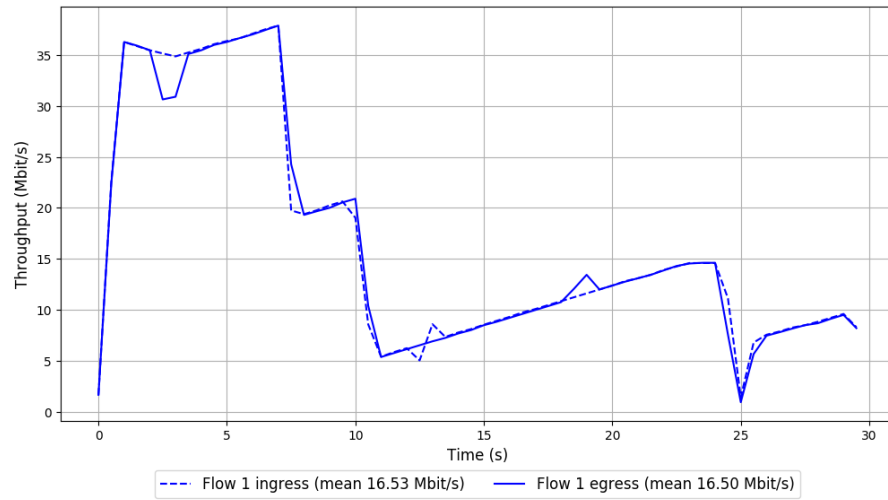
-- Flow 1:

Average throughput: 16.50 Mbit/s

95th percentile per-packet one-way delay: 64.546 ms

Loss rate: 0.62%

Run 10: Report of TCP Vegas — Data Link

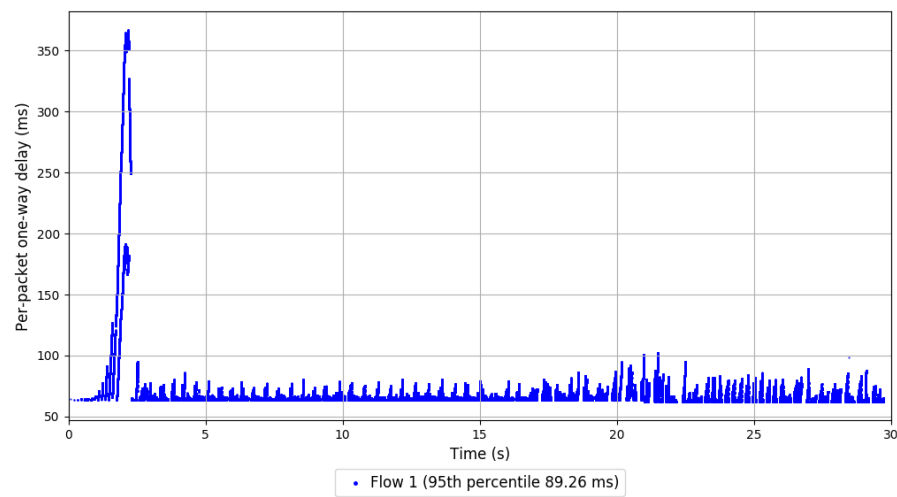
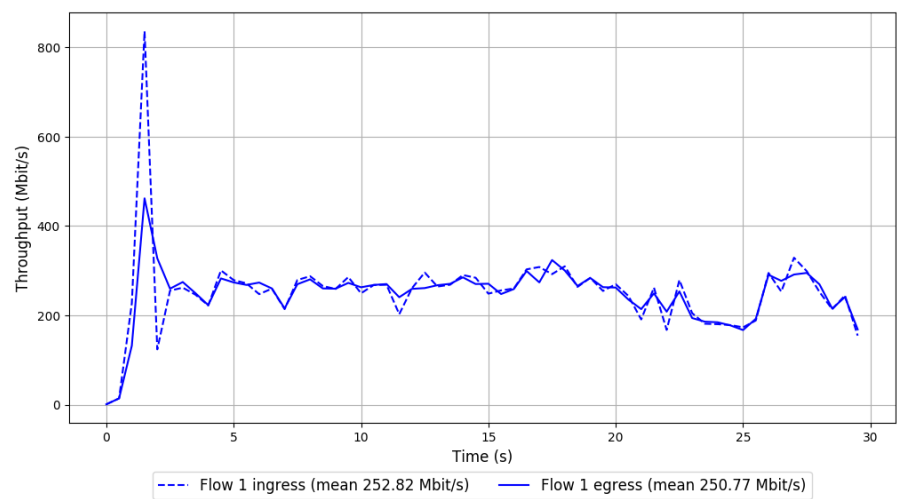


```
Run 1: Statistics of Verus

Start at: 2018-01-16 22:31:13
End at: 2018-01-16 22:31:43

# Below is generated by plot.py at 2018-01-17 03:41:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 250.77 Mbit/s
95th percentile per-packet one-way delay: 89.261 ms
Loss rate: 1.69%
-- Flow 1:
Average throughput: 250.77 Mbit/s
95th percentile per-packet one-way delay: 89.261 ms
Loss rate: 1.69%
```


Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-01-16 22:45:42

End at: 2018-01-16 22:46:12

Below is generated by plot.py at 2018-01-17 03:41:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 239.04 Mbit/s

95th percentile per-packet one-way delay: 115.933 ms

Loss rate: 1.37%

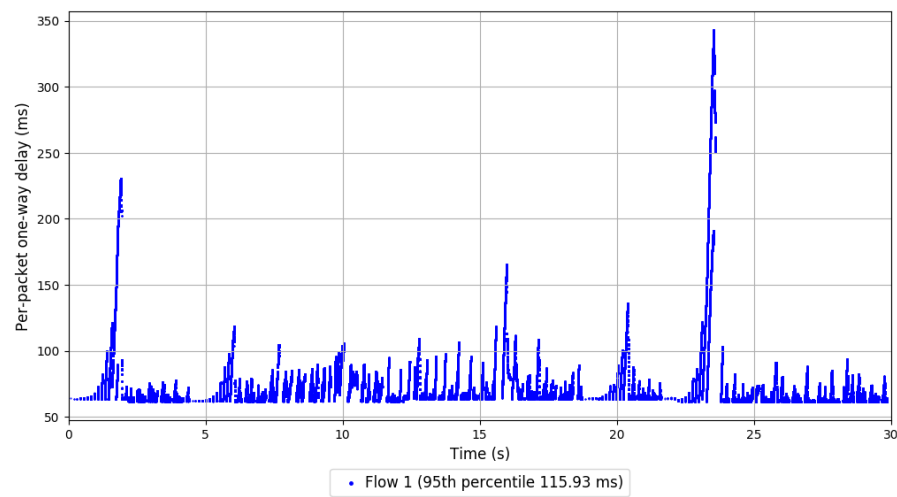
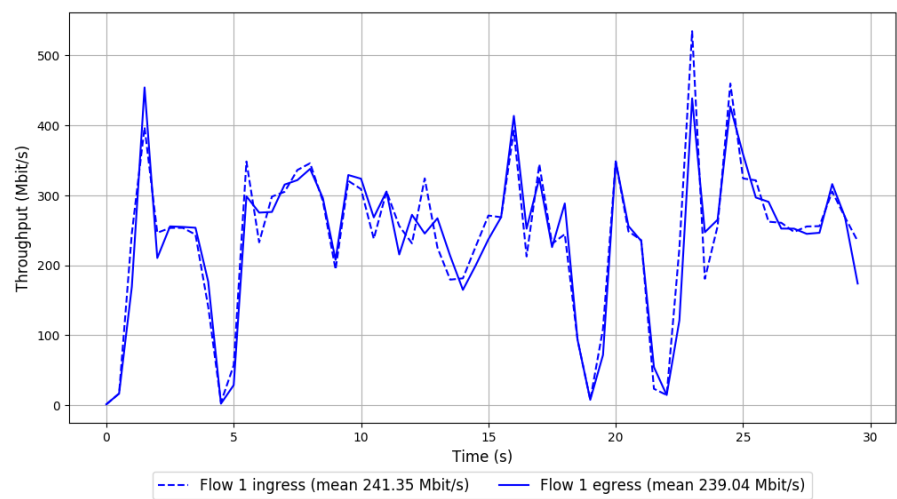
-- Flow 1:

Average throughput: 239.04 Mbit/s

95th percentile per-packet one-way delay: 115.933 ms

Loss rate: 1.37%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-01-16 23:00:19

End at: 2018-01-16 23:00:49

Below is generated by plot.py at 2018-01-17 03:41:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 254.07 Mbit/s

95th percentile per-packet one-way delay: 119.211 ms

Loss rate: 1.45%

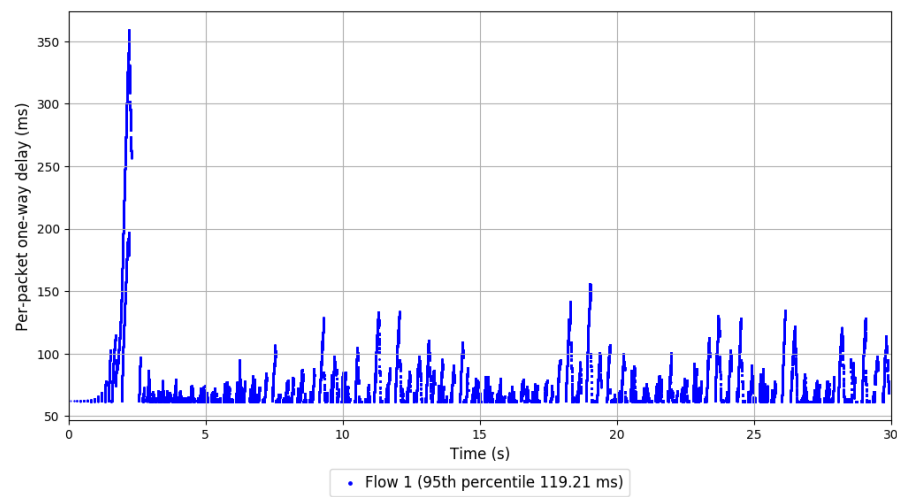
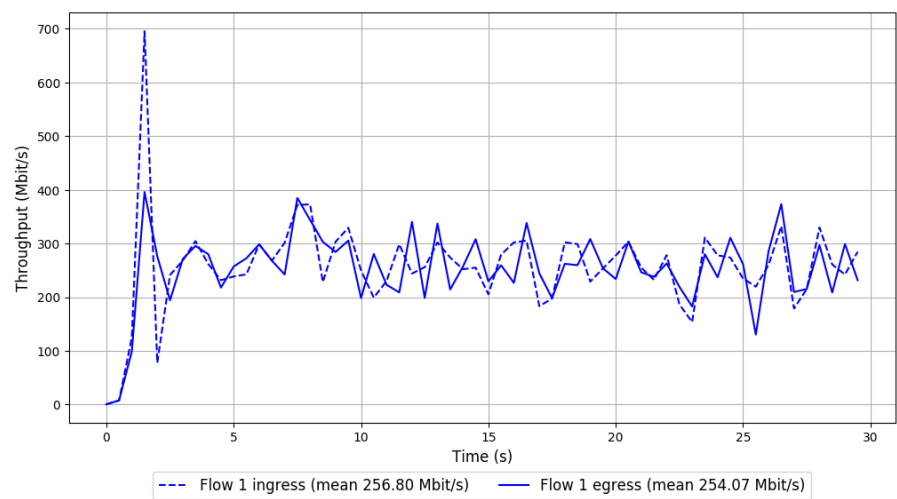
-- Flow 1:

Average throughput: 254.07 Mbit/s

95th percentile per-packet one-way delay: 119.211 ms

Loss rate: 1.45%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-01-16 23:14:21

End at: 2018-01-16 23:14:51

Below is generated by plot.py at 2018-01-17 03:41:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 210.41 Mbit/s

95th percentile per-packet one-way delay: 111.808 ms

Loss rate: 0.43%

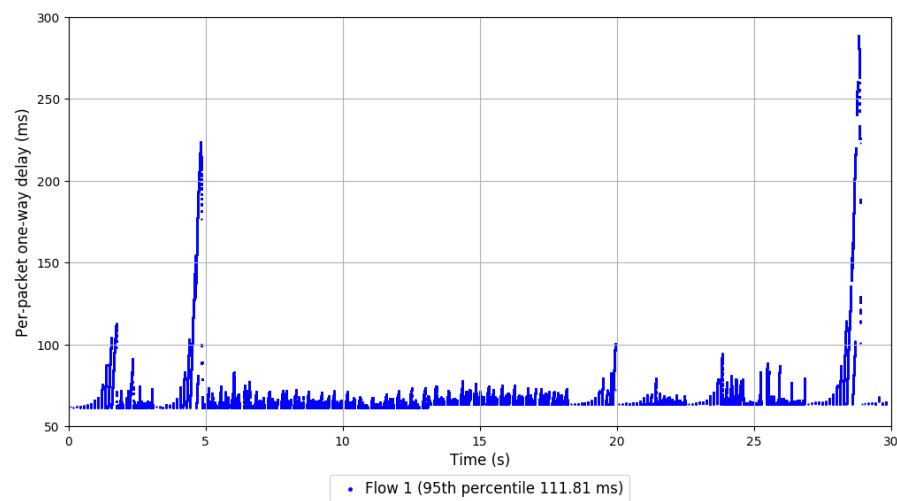
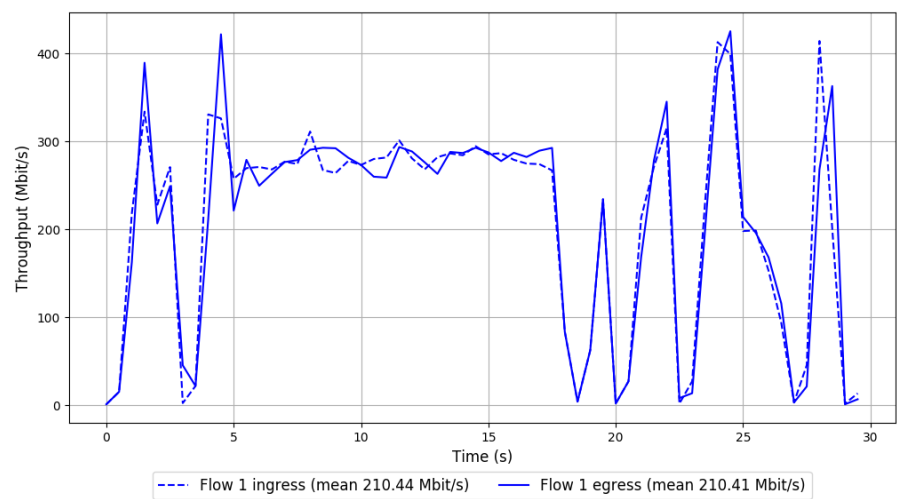
-- Flow 1:

Average throughput: 210.41 Mbit/s

95th percentile per-packet one-way delay: 111.808 ms

Loss rate: 0.43%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-01-16 23:28:39

End at: 2018-01-16 23:29:09

Below is generated by plot.py at 2018-01-17 03:41:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 232.85 Mbit/s

95th percentile per-packet one-way delay: 104.751 ms

Loss rate: 1.37%

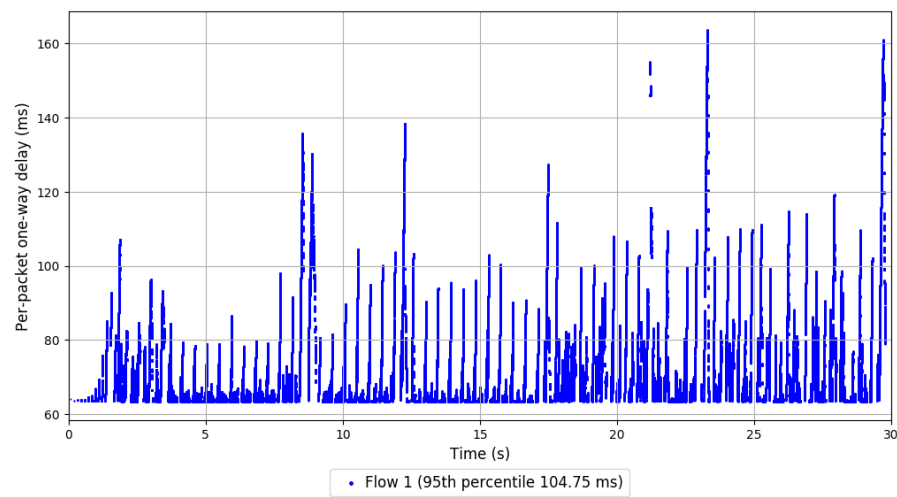
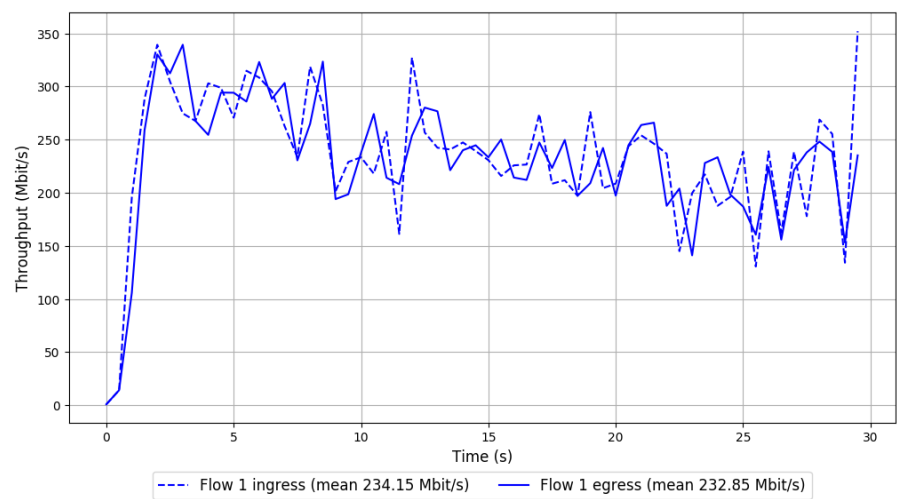
-- Flow 1:

Average throughput: 232.85 Mbit/s

95th percentile per-packet one-way delay: 104.751 ms

Loss rate: 1.37%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-01-16 23:42:55

End at: 2018-01-16 23:43:25

Below is generated by plot.py at 2018-01-17 03:41:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 245.63 Mbit/s

95th percentile per-packet one-way delay: 87.174 ms

Loss rate: 0.51%

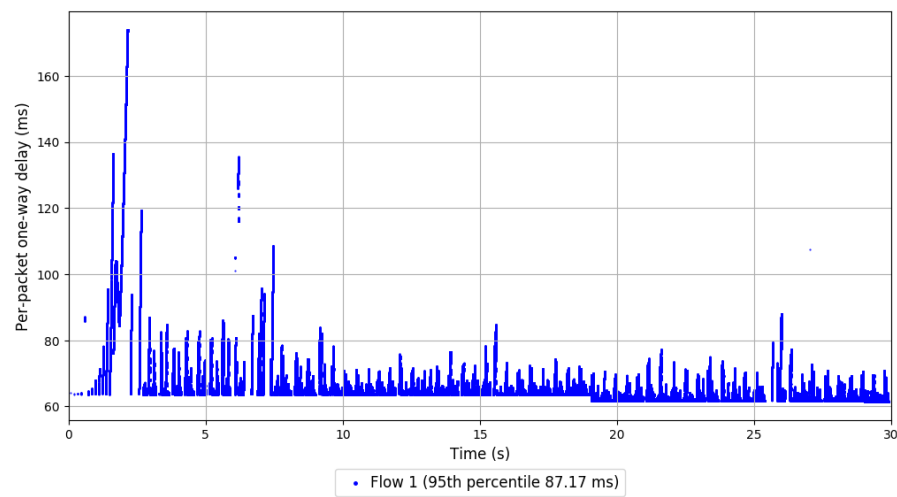
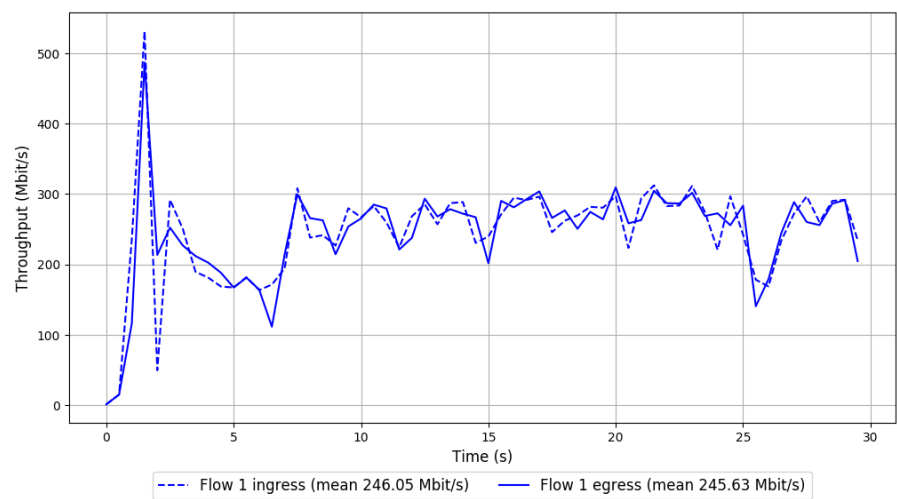
-- Flow 1:

Average throughput: 245.63 Mbit/s

95th percentile per-packet one-way delay: 87.174 ms

Loss rate: 0.51%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-01-16 23:57:16

End at: 2018-01-16 23:57:46

Below is generated by plot.py at 2018-01-17 03:41:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 243.05 Mbit/s

95th percentile per-packet one-way delay: 97.350 ms

Loss rate: 1.31%

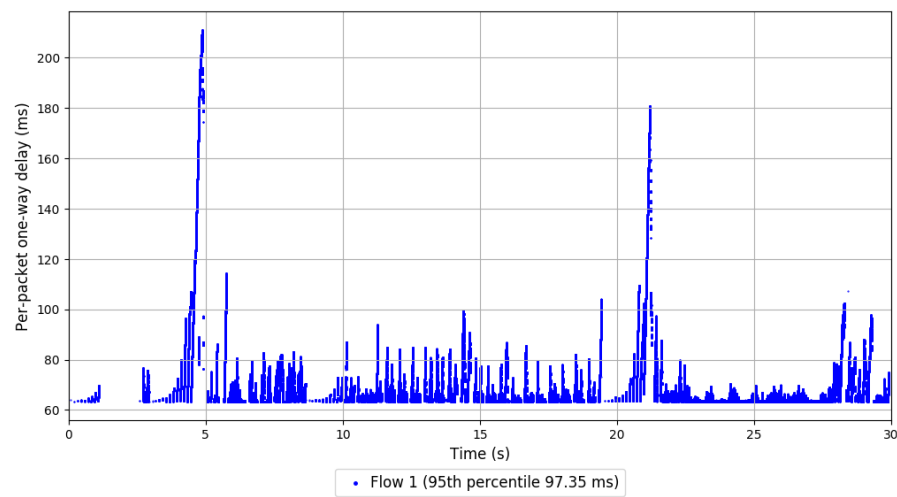
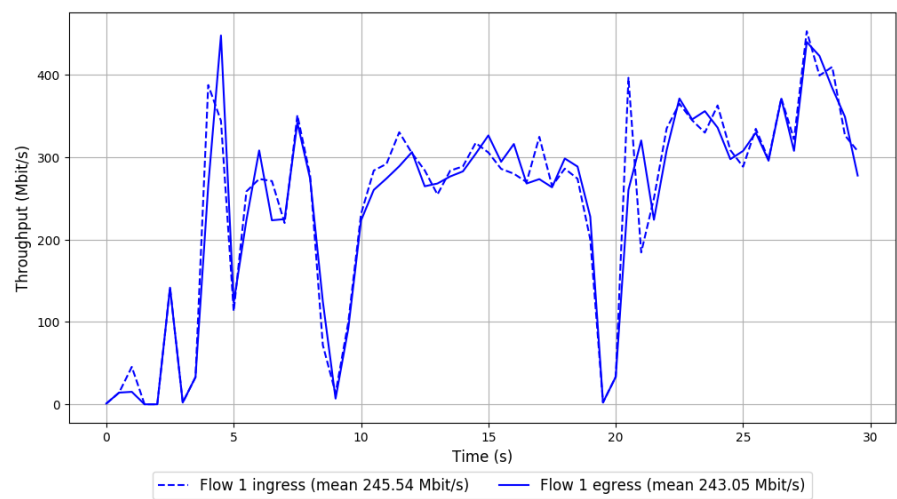
-- Flow 1:

Average throughput: 243.05 Mbit/s

95th percentile per-packet one-way delay: 97.350 ms

Loss rate: 1.31%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-01-17 00:11:22

End at: 2018-01-17 00:11:52

Below is generated by plot.py at 2018-01-17 03:44:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 251.80 Mbit/s

95th percentile per-packet one-way delay: 84.504 ms

Loss rate: 2.60%

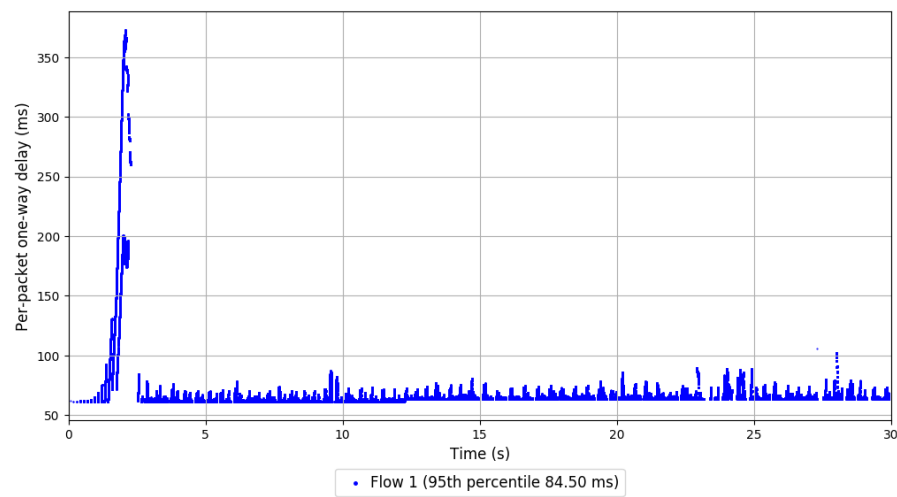
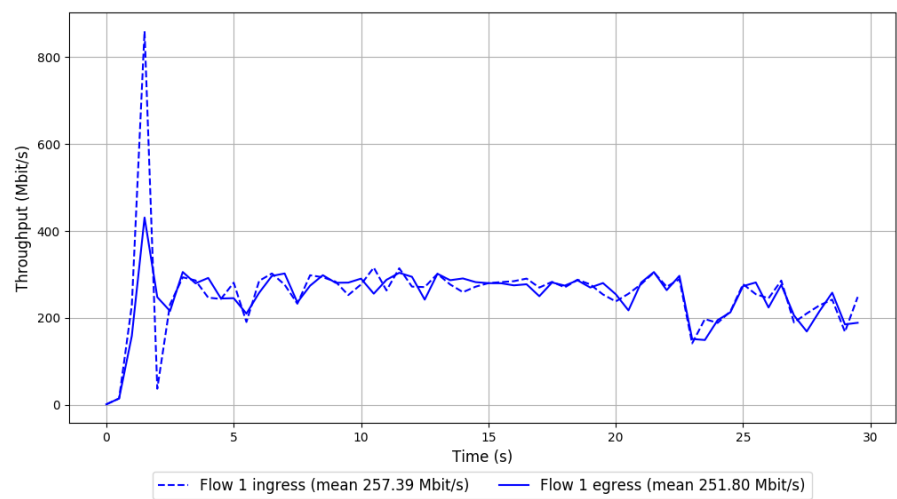
-- Flow 1:

Average throughput: 251.80 Mbit/s

95th percentile per-packet one-way delay: 84.504 ms

Loss rate: 2.60%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-01-17 00:25:43

End at: 2018-01-17 00:26:13

Below is generated by plot.py at 2018-01-17 03:44:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 190.97 Mbit/s

95th percentile per-packet one-way delay: 146.035 ms

Loss rate: 0.52%

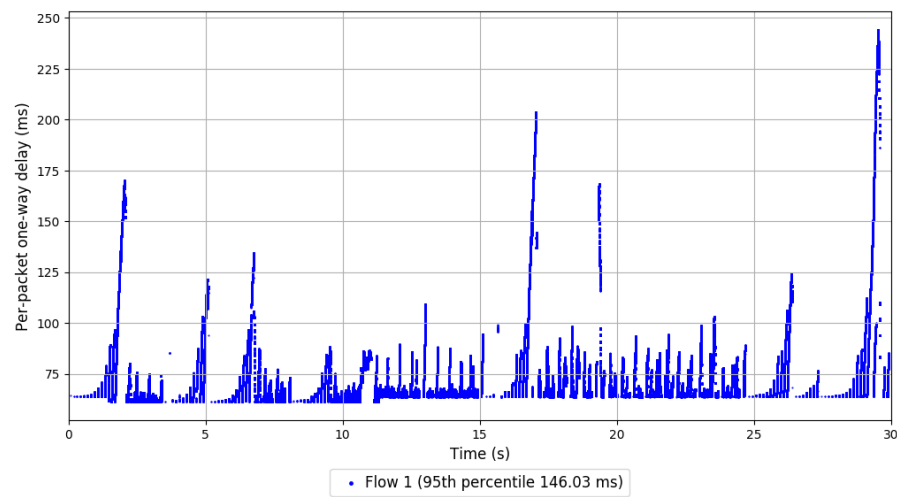
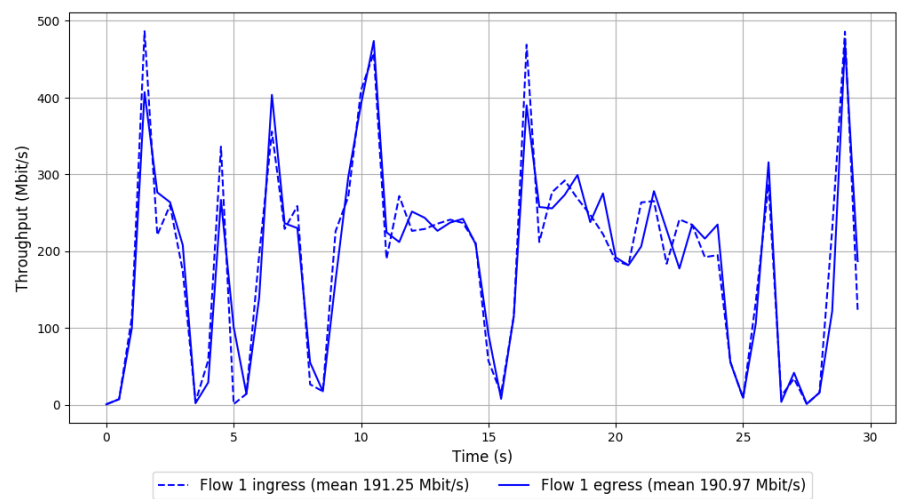
-- Flow 1:

Average throughput: 190.97 Mbit/s

95th percentile per-packet one-way delay: 146.035 ms

Loss rate: 0.52%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-01-17 00:40:05

End at: 2018-01-17 00:40:35

Below is generated by plot.py at 2018-01-17 03:45:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 233.33 Mbit/s

95th percentile per-packet one-way delay: 102.283 ms

Loss rate: 2.69%

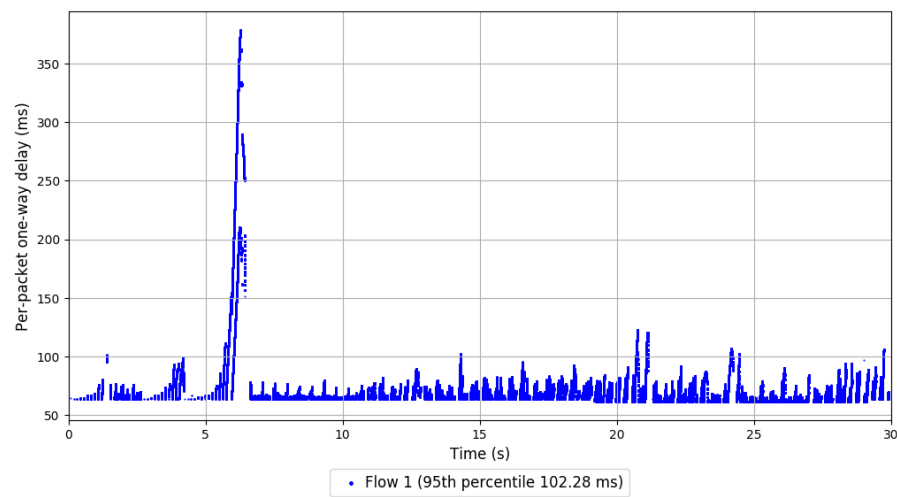
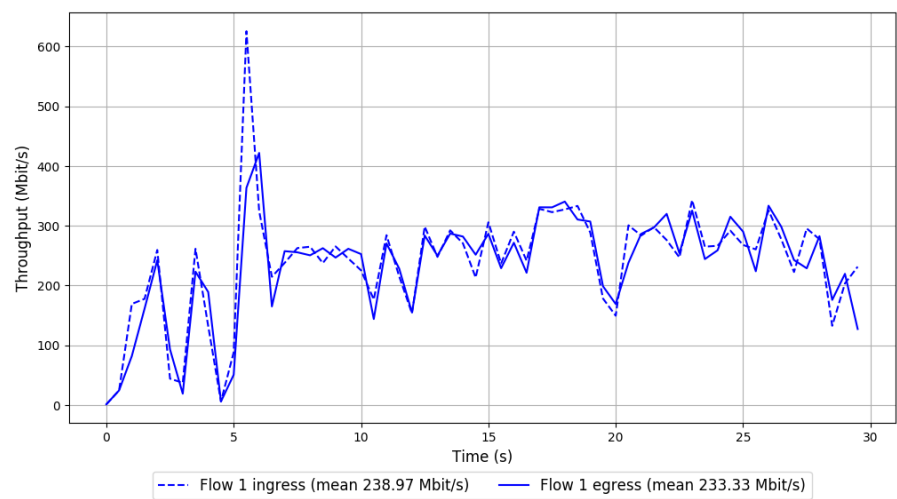
-- Flow 1:

Average throughput: 233.33 Mbit/s

95th percentile per-packet one-way delay: 102.283 ms

Loss rate: 2.69%

Run 10: Report of Verus — Data Link

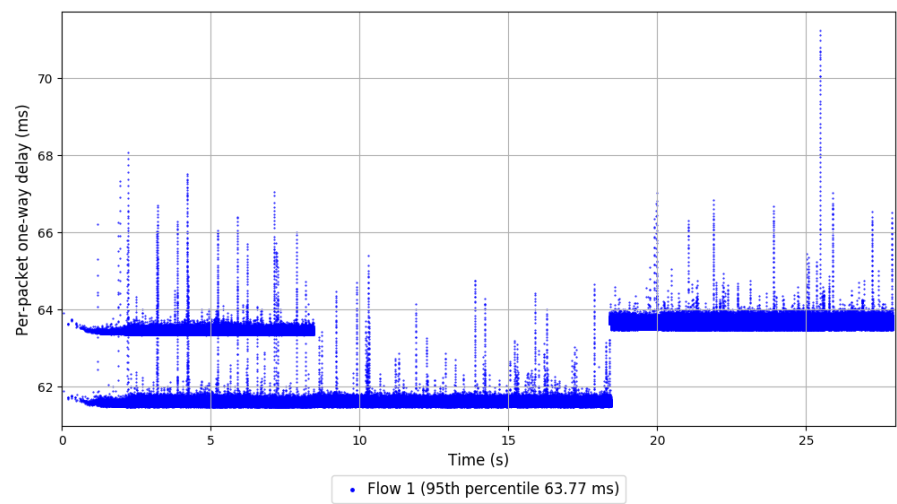
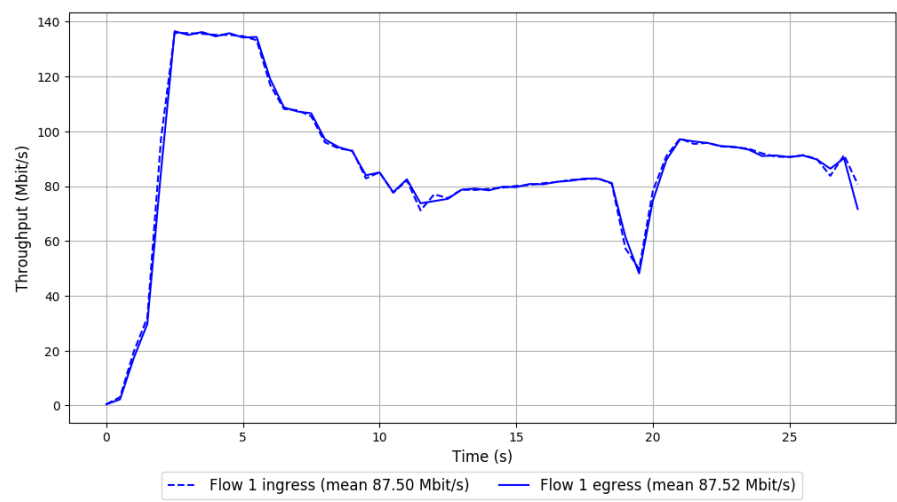


```
Run 1: Statistics of Copa

Start at: 2018-01-16 22:28:24
End at: 2018-01-16 22:28:54

# Below is generated by plot.py at 2018-01-17 03:45:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.52 Mbit/s
95th percentile per-packet one-way delay: 63.771 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 87.52 Mbit/s
95th percentile per-packet one-way delay: 63.771 ms
Loss rate: 0.41%
```

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-01-16 22:42:53

End at: 2018-01-16 22:43:23

Below is generated by plot.py at 2018-01-17 03:45:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 88.74 Mbit/s

95th percentile per-packet one-way delay: 63.972 ms

Loss rate: 0.58%

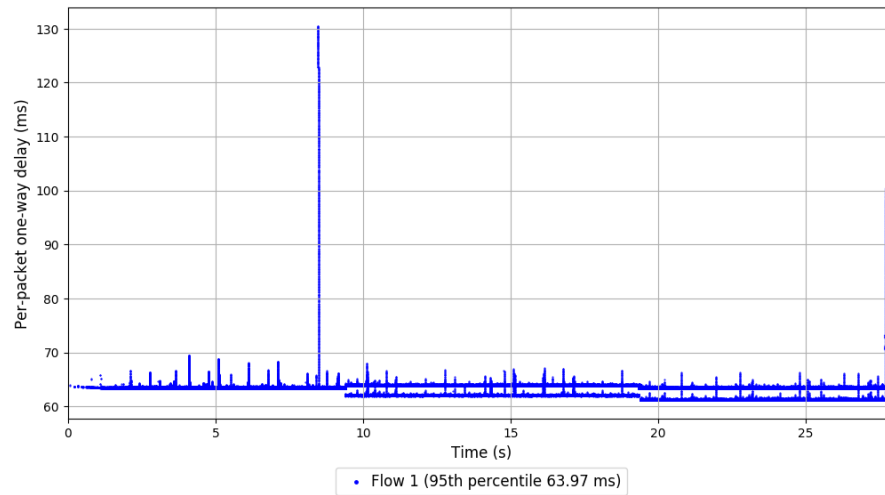
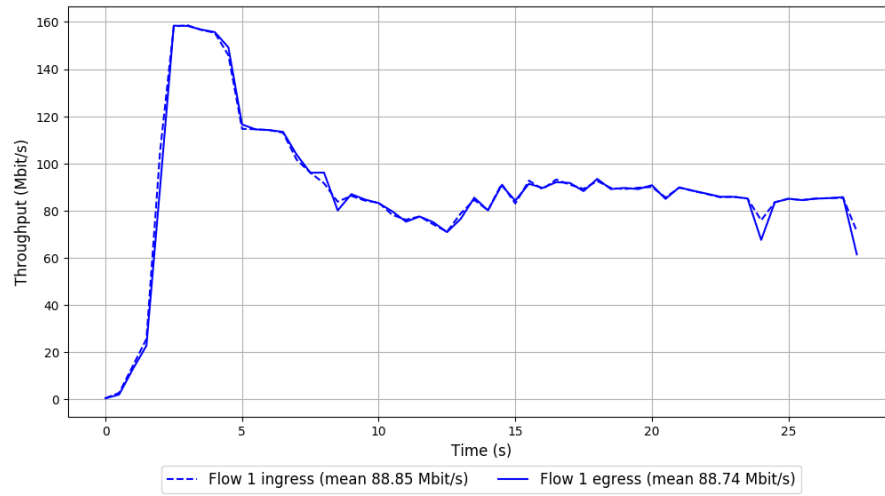
-- Flow 1:

Average throughput: 88.74 Mbit/s

95th percentile per-packet one-way delay: 63.972 ms

Loss rate: 0.58%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-01-16 22:57:30

End at: 2018-01-16 22:58:00

Below is generated by plot.py at 2018-01-17 03:45:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.38 Mbit/s

95th percentile per-packet one-way delay: 63.642 ms

Loss rate: 0.07%

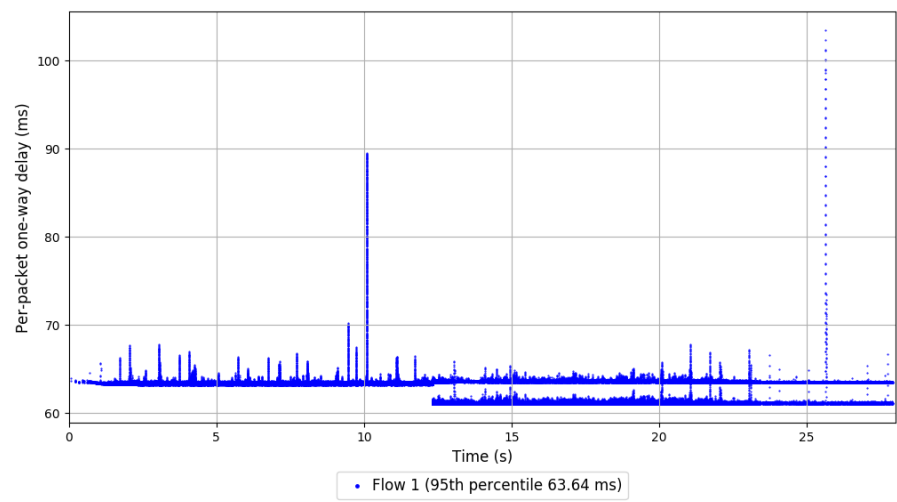
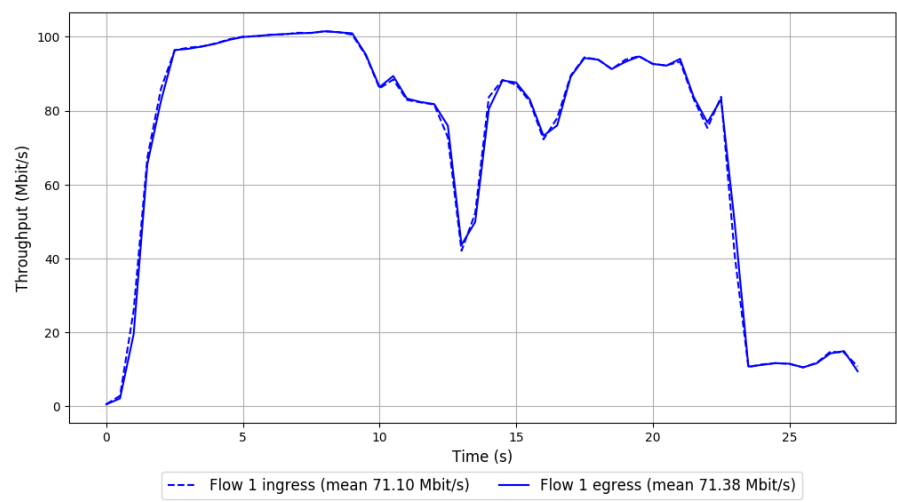
-- Flow 1:

Average throughput: 71.38 Mbit/s

95th percentile per-packet one-way delay: 63.642 ms

Loss rate: 0.07%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-01-16 23:11:32

End at: 2018-01-16 23:12:02

Below is generated by plot.py at 2018-01-17 03:45:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 80.33 Mbit/s

95th percentile per-packet one-way delay: 63.679 ms

Loss rate: 0.73%

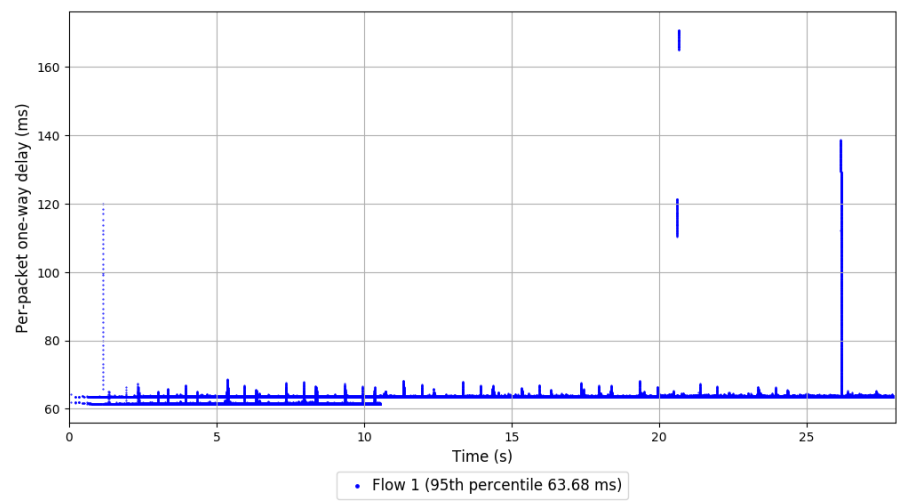
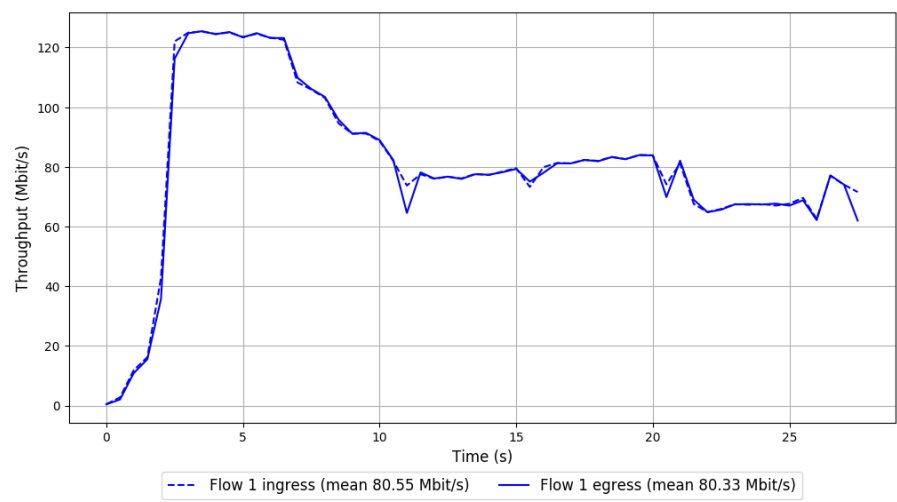
-- Flow 1:

Average throughput: 80.33 Mbit/s

95th percentile per-packet one-way delay: 63.679 ms

Loss rate: 0.73%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-01-16 23:25:48

End at: 2018-01-16 23:26:18

Below is generated by plot.py at 2018-01-17 03:45:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.37 Mbit/s

95th percentile per-packet one-way delay: 63.673 ms

Loss rate: 0.46%

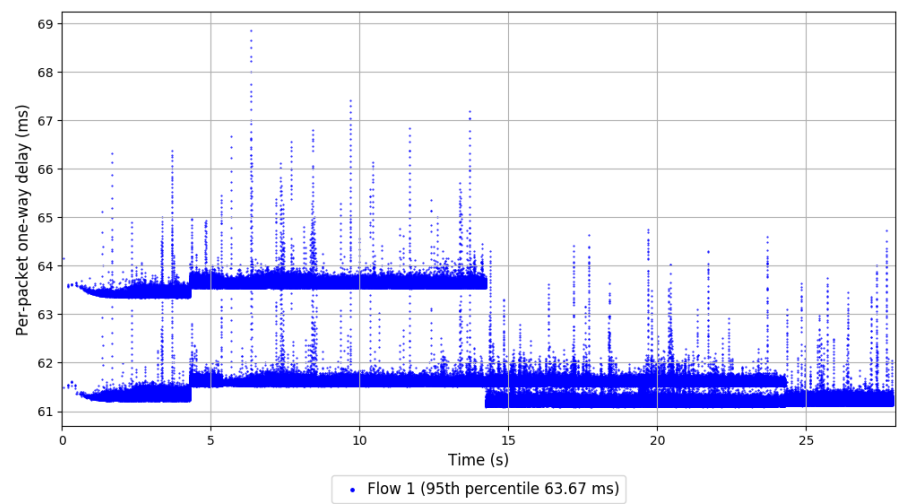
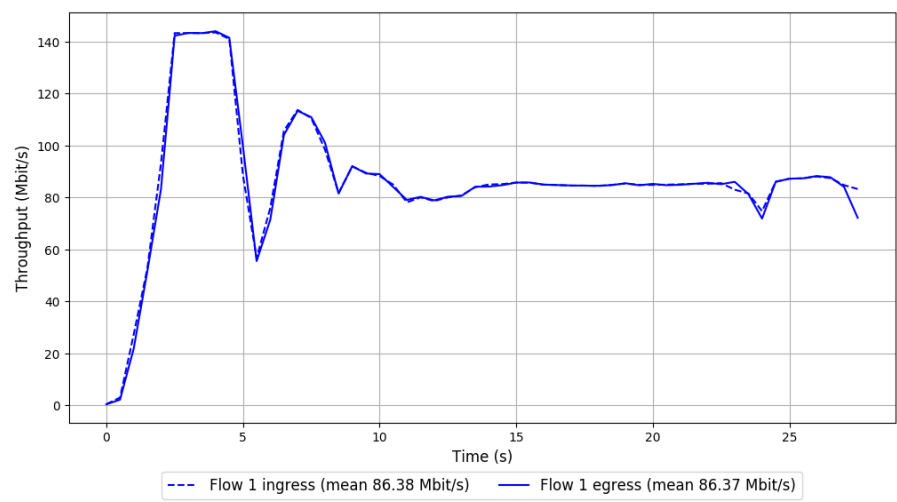
-- Flow 1:

Average throughput: 86.37 Mbit/s

95th percentile per-packet one-way delay: 63.673 ms

Loss rate: 0.46%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-01-16 23:40:06

End at: 2018-01-16 23:40:36

Below is generated by plot.py at 2018-01-17 03:45:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.90 Mbit/s

95th percentile per-packet one-way delay: 63.696 ms

Loss rate: 0.21%

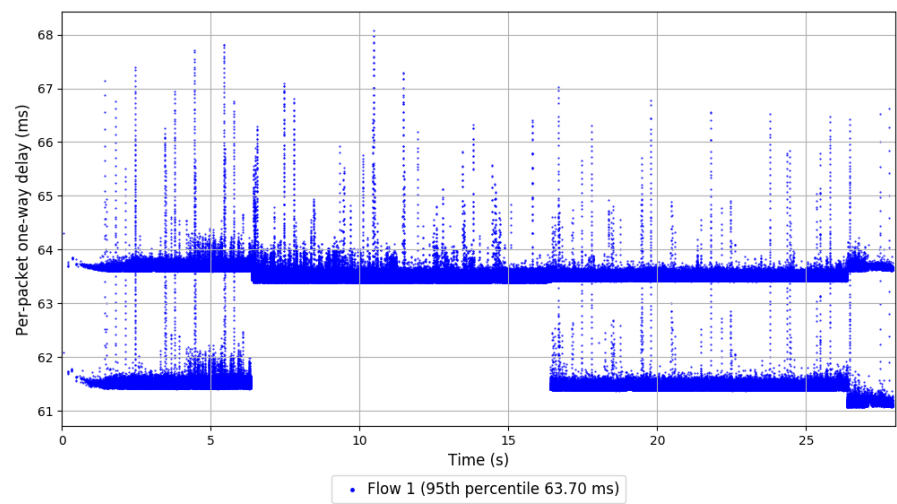
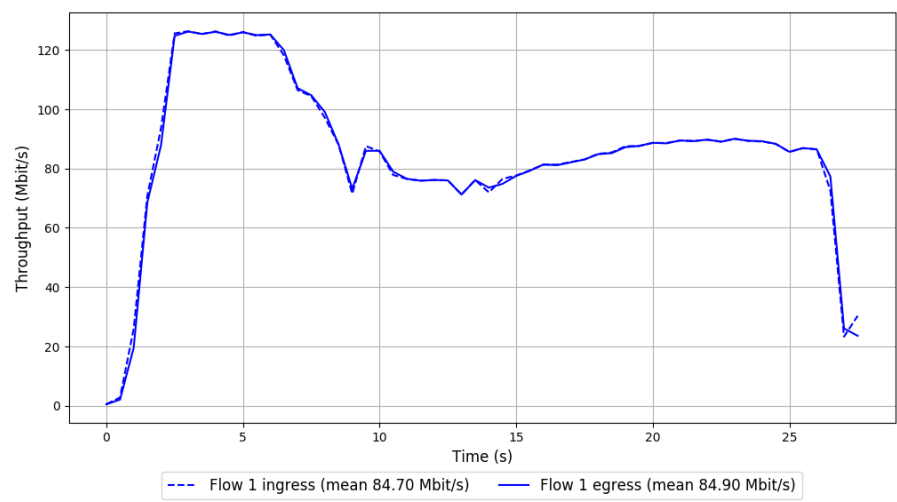
-- Flow 1:

Average throughput: 84.90 Mbit/s

95th percentile per-packet one-way delay: 63.696 ms

Loss rate: 0.21%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-01-16 23:54:28

End at: 2018-01-16 23:54:58

Below is generated by plot.py at 2018-01-17 03:45:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 79.46 Mbit/s

95th percentile per-packet one-way delay: 63.438 ms

Loss rate: 0.25%

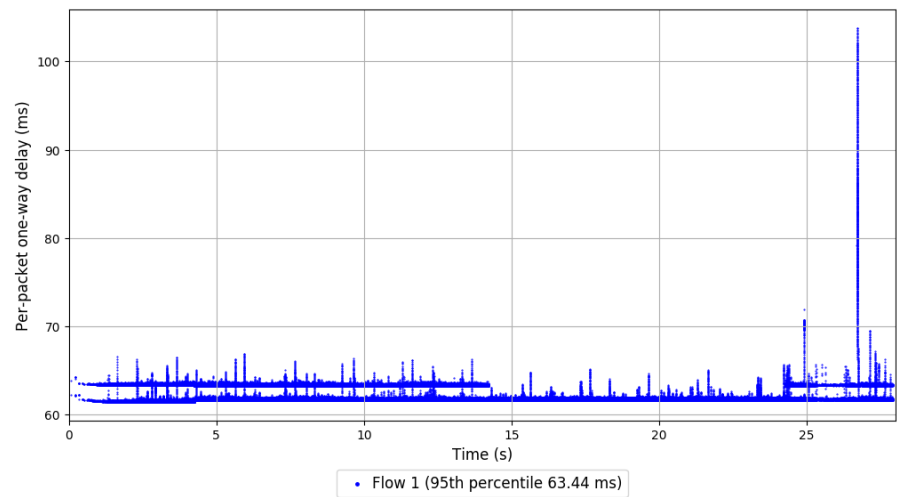
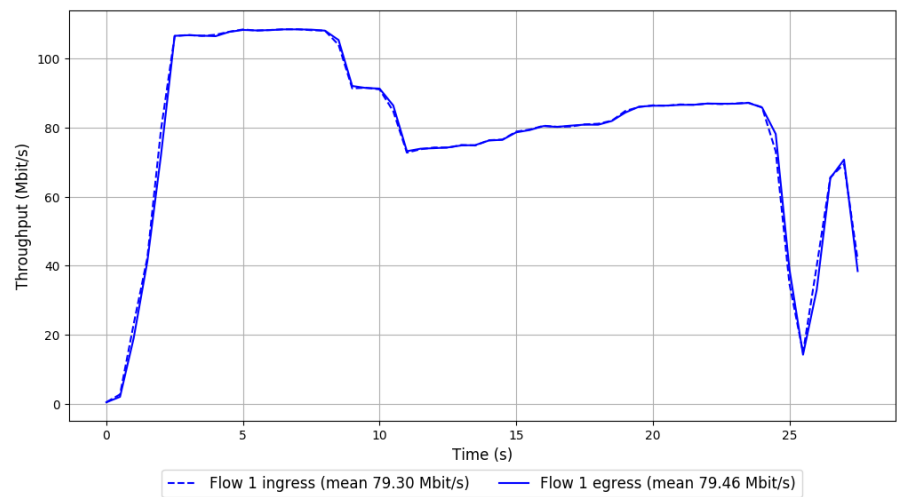
-- Flow 1:

Average throughput: 79.46 Mbit/s

95th percentile per-packet one-way delay: 63.438 ms

Loss rate: 0.25%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-01-17 00:08:38

End at: 2018-01-17 00:09:08

Below is generated by plot.py at 2018-01-17 03:45:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 53.23 Mbit/s

95th percentile per-packet one-way delay: 63.762 ms

Loss rate: 0.10%

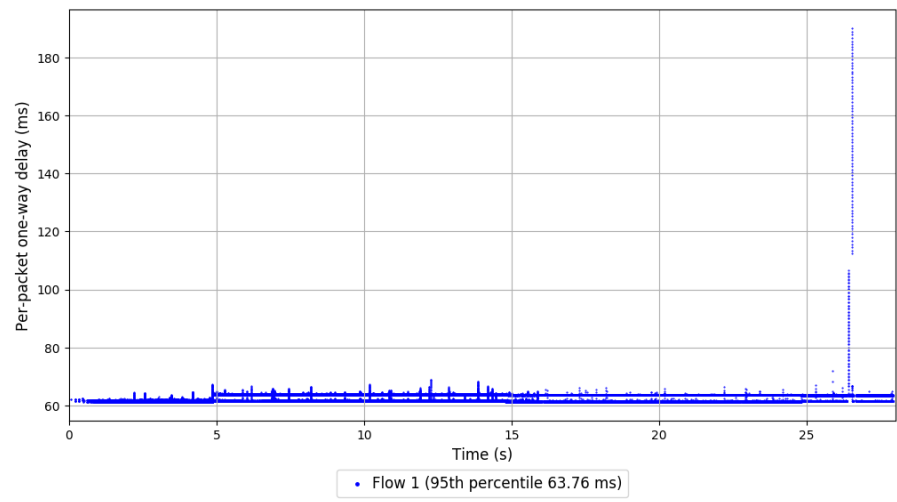
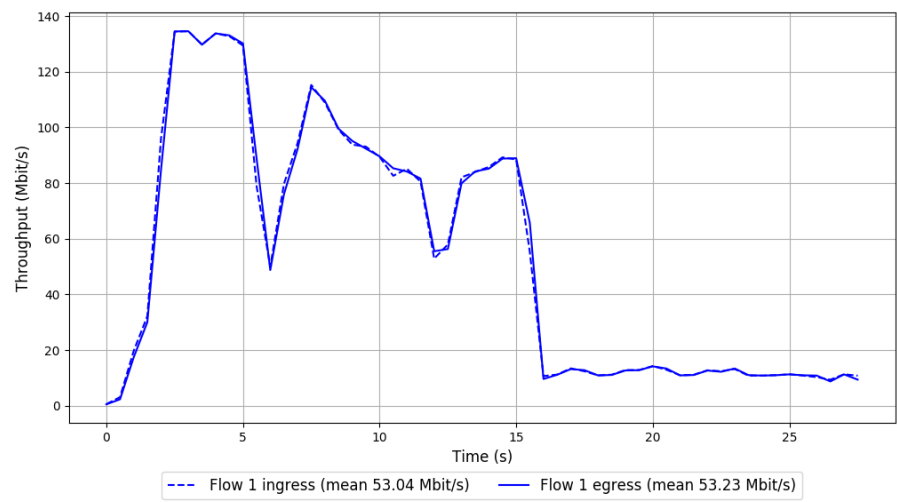
-- Flow 1:

Average throughput: 53.23 Mbit/s

95th percentile per-packet one-way delay: 63.762 ms

Loss rate: 0.10%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-01-17 00:22:54

End at: 2018-01-17 00:23:24

Below is generated by plot.py at 2018-01-17 03:46:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.02 Mbit/s

95th percentile per-packet one-way delay: 63.668 ms

Loss rate: 0.37%

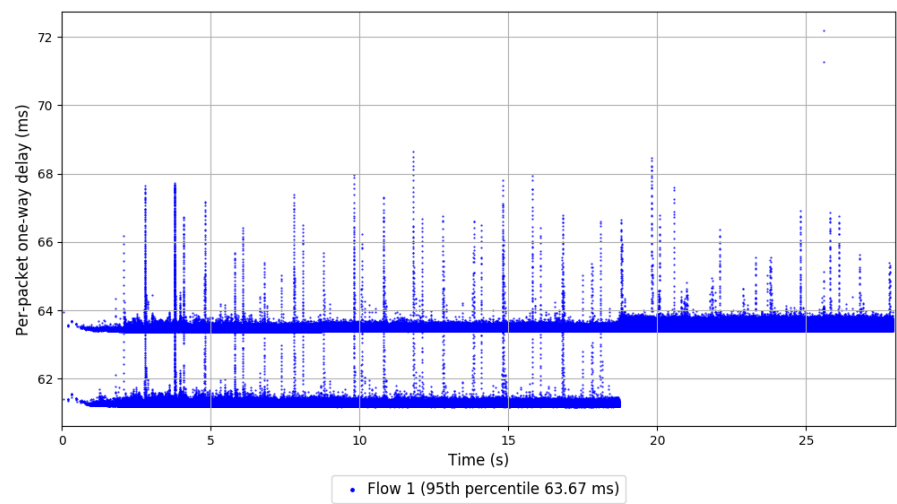
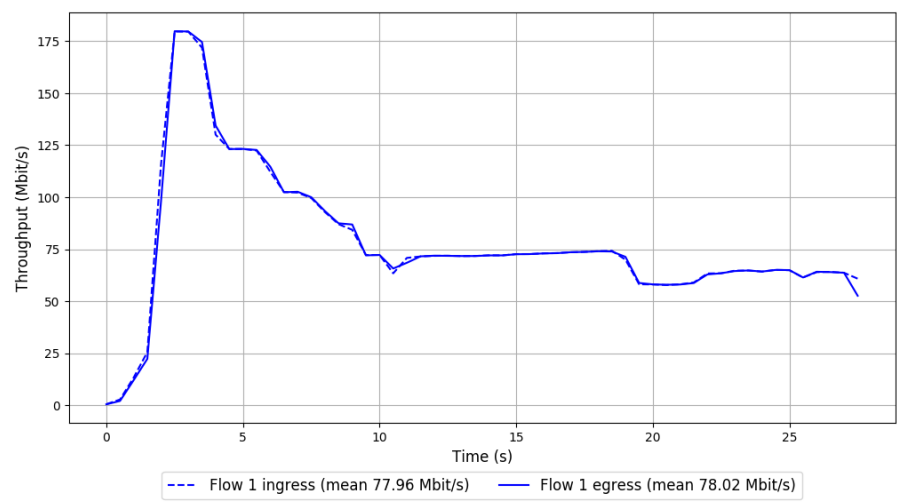
-- Flow 1:

Average throughput: 78.02 Mbit/s

95th percentile per-packet one-way delay: 63.668 ms

Loss rate: 0.37%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-01-17 00:37:17

End at: 2018-01-17 00:37:47

Below is generated by plot.py at 2018-01-17 03:46:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 69.78 Mbit/s

95th percentile per-packet one-way delay: 63.710 ms

Loss rate: 0.47%

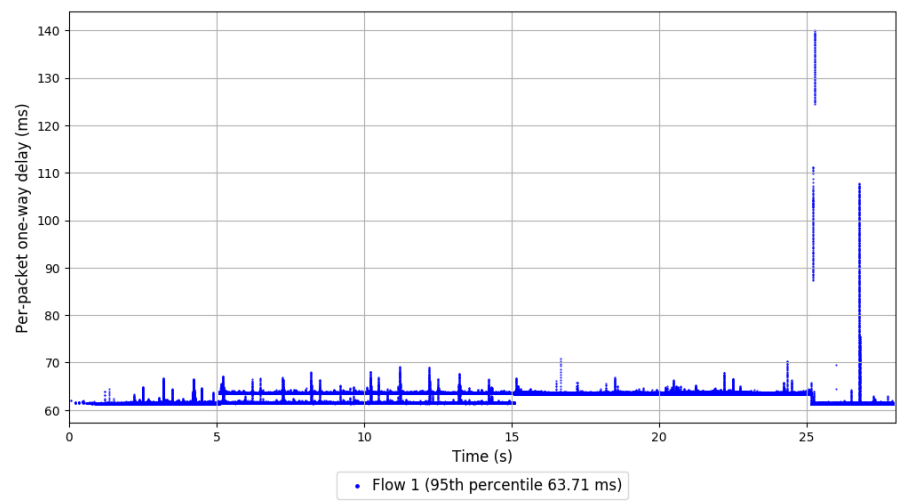
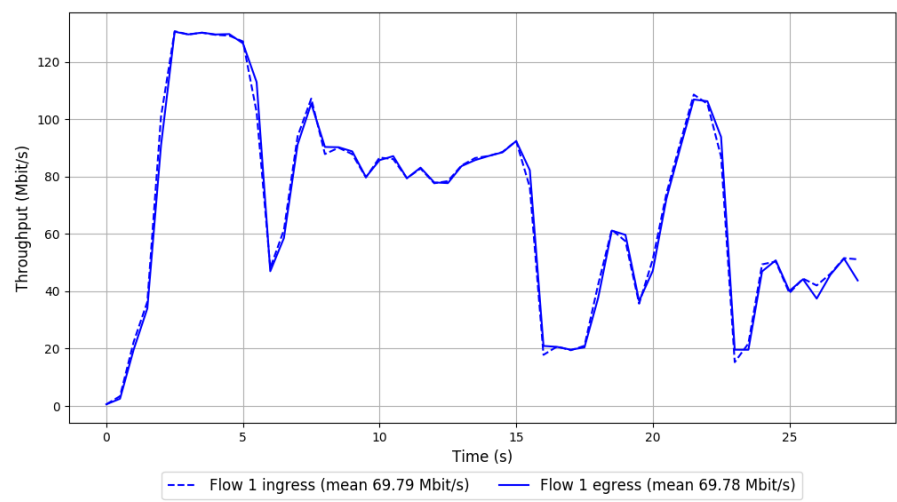
-- Flow 1:

Average throughput: 69.78 Mbit/s

95th percentile per-packet one-way delay: 63.710 ms

Loss rate: 0.47%

Run 10: Report of Copa — Data Link

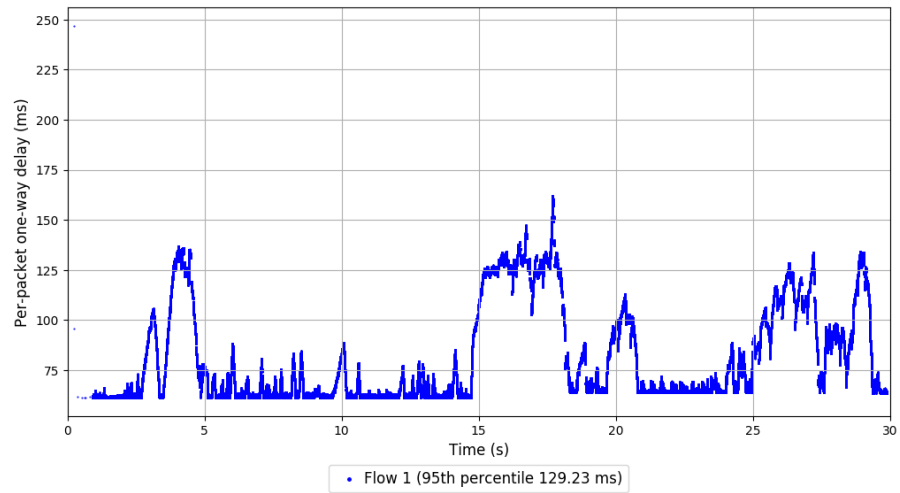
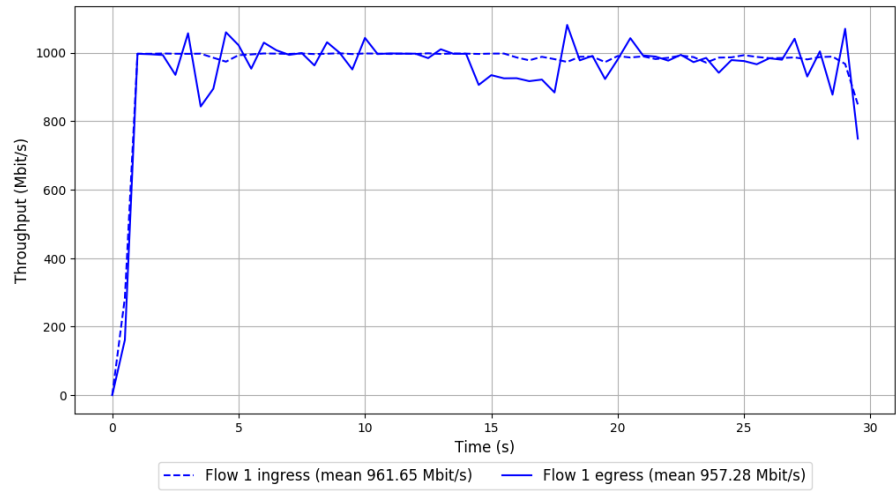


```
Run 1: Statistics of FillP

Start at: 2018-01-16 22:27:09
End at: 2018-01-16 22:27:39

# Below is generated by plot.py at 2018-01-17 04:01:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 957.28 Mbit/s
95th percentile per-packet one-way delay: 129.229 ms
Loss rate: 1.49%
-- Flow 1:
Average throughput: 957.28 Mbit/s
95th percentile per-packet one-way delay: 129.229 ms
Loss rate: 1.49%
```


Run 1: Report of FillP — Data Link

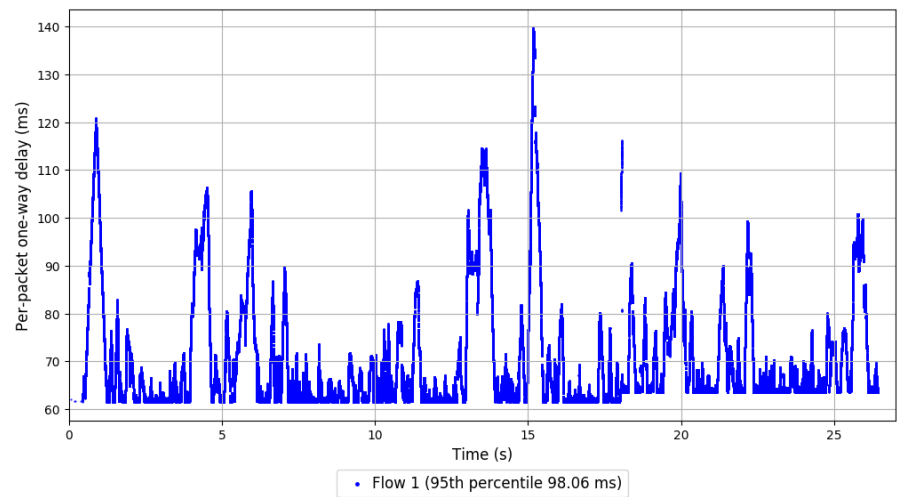
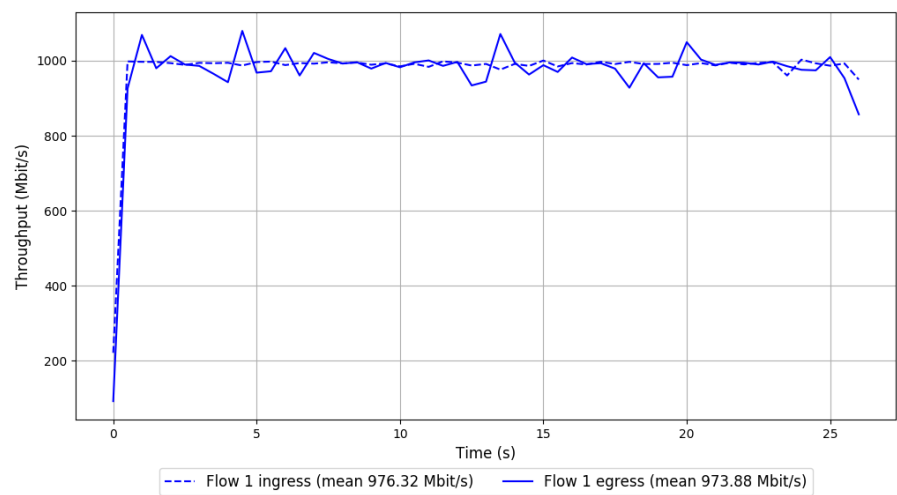


```
Run 2: Statistics of FillP

Start at: 2018-01-16 22:41:43
End at: 2018-01-16 22:42:13

# Below is generated by plot.py at 2018-01-17 04:01:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 973.88 Mbit/s
95th percentile per-packet one-way delay: 98.059 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 973.88 Mbit/s
95th percentile per-packet one-way delay: 98.059 ms
Loss rate: 0.73%
```

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-01-16 22:56:15

End at: 2018-01-16 22:56:45

Below is generated by plot.py at 2018-01-17 04:02:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 973.37 Mbit/s

95th percentile per-packet one-way delay: 125.325 ms

Loss rate: 1.00%

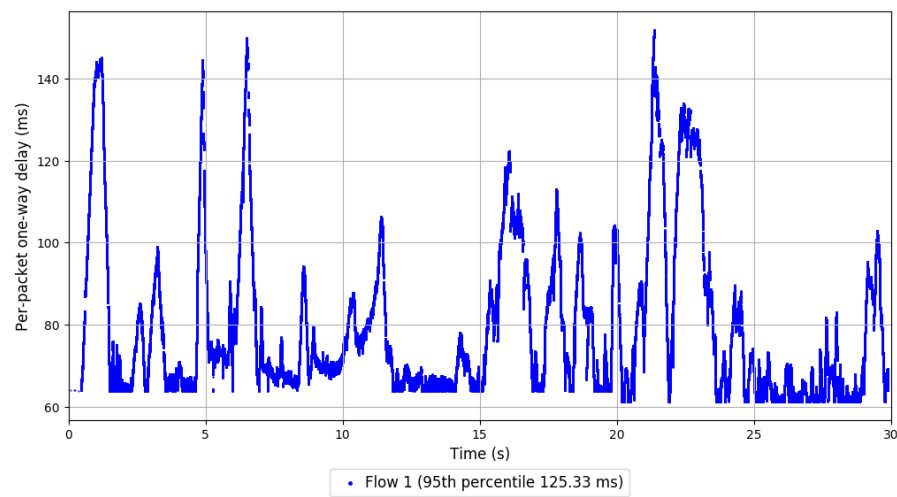
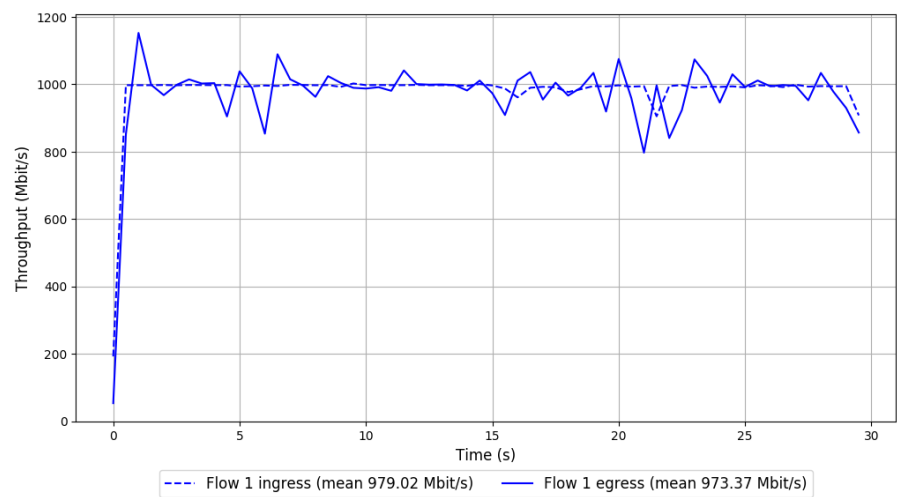
-- Flow 1:

Average throughput: 973.37 Mbit/s

95th percentile per-packet one-way delay: 125.325 ms

Loss rate: 1.00%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-01-16 23:10:21

End at: 2018-01-16 23:10:51

Below is generated by plot.py at 2018-01-17 04:02:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 961.06 Mbit/s

95th percentile per-packet one-way delay: 164.812 ms

Loss rate: 1.60%

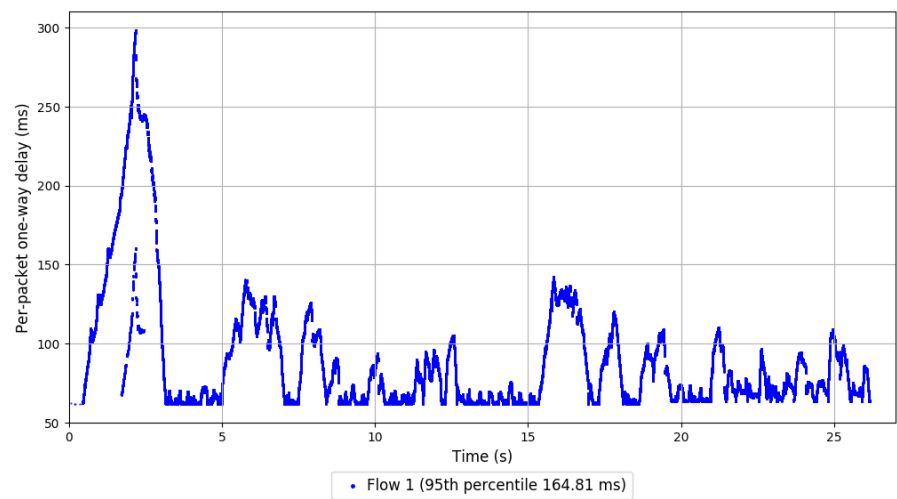
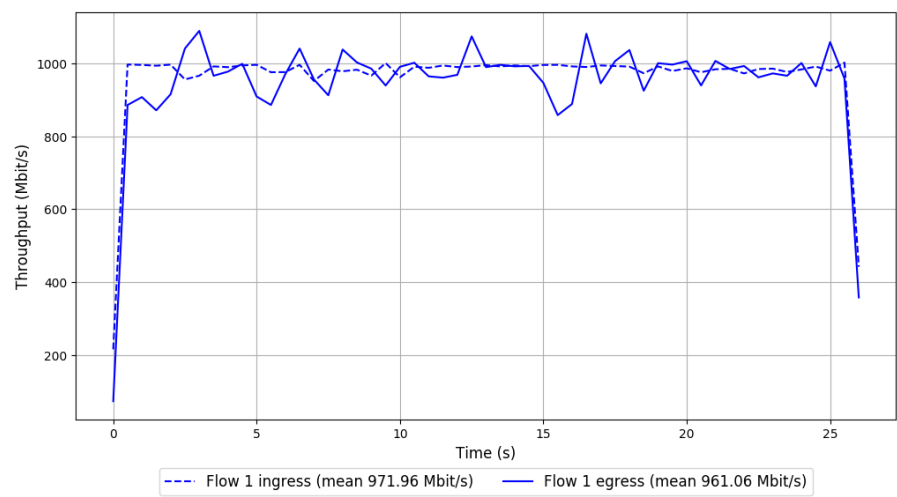
-- Flow 1:

Average throughput: 961.06 Mbit/s

95th percentile per-packet one-way delay: 164.812 ms

Loss rate: 1.60%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-01-16 23:24:35

End at: 2018-01-16 23:25:05

Below is generated by plot.py at 2018-01-17 04:02:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 970.44 Mbit/s

95th percentile per-packet one-way delay: 119.469 ms

Loss rate: 0.85%

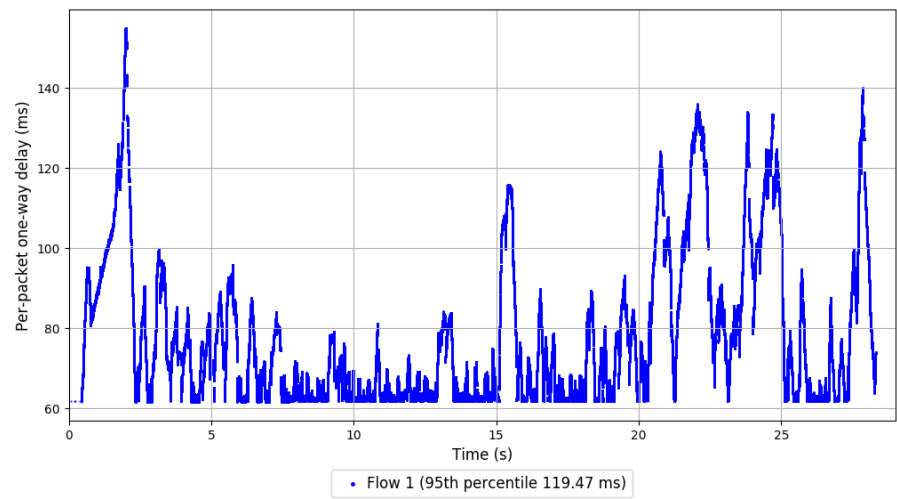
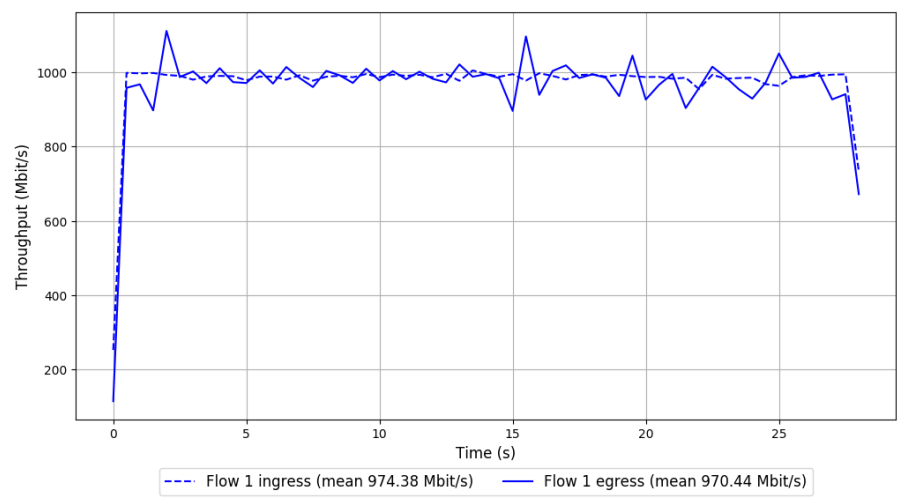
-- Flow 1:

Average throughput: 970.44 Mbit/s

95th percentile per-packet one-way delay: 119.469 ms

Loss rate: 0.85%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-01-16 23:38:54

End at: 2018-01-16 23:39:24

Below is generated by plot.py at 2018-01-17 04:02:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 971.91 Mbit/s

95th percentile per-packet one-way delay: 122.568 ms

Loss rate: 1.06%

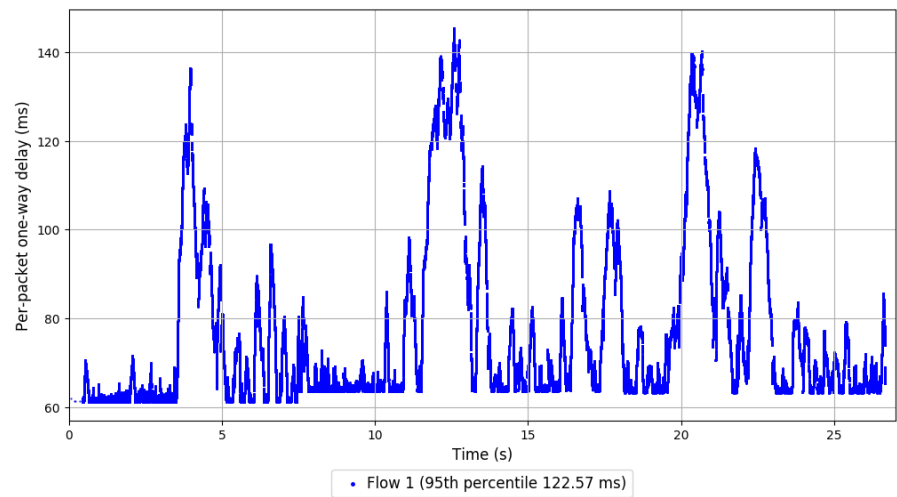
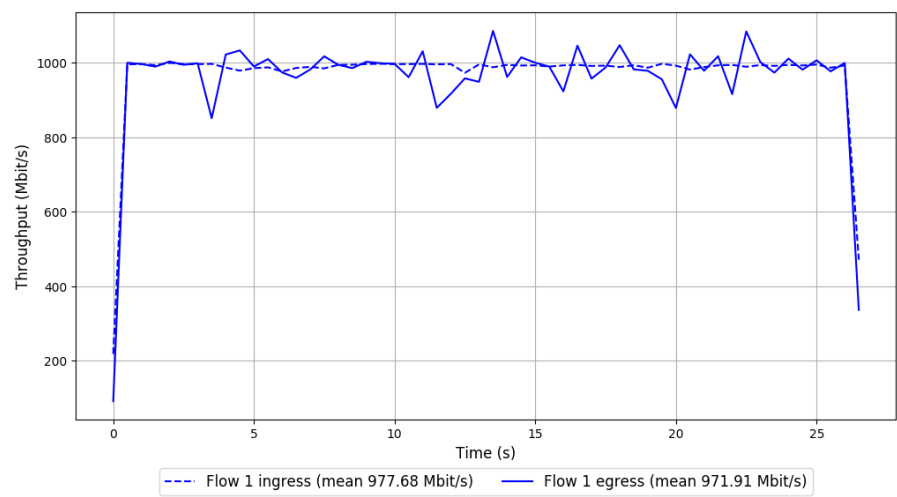
-- Flow 1:

Average throughput: 971.91 Mbit/s

95th percentile per-packet one-way delay: 122.568 ms

Loss rate: 1.06%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-01-16 23:53:13

End at: 2018-01-16 23:53:43

Below is generated by plot.py at 2018-01-17 04:03:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 958.31 Mbit/s

95th percentile per-packet one-way delay: 263.172 ms

Loss rate: 2.13%

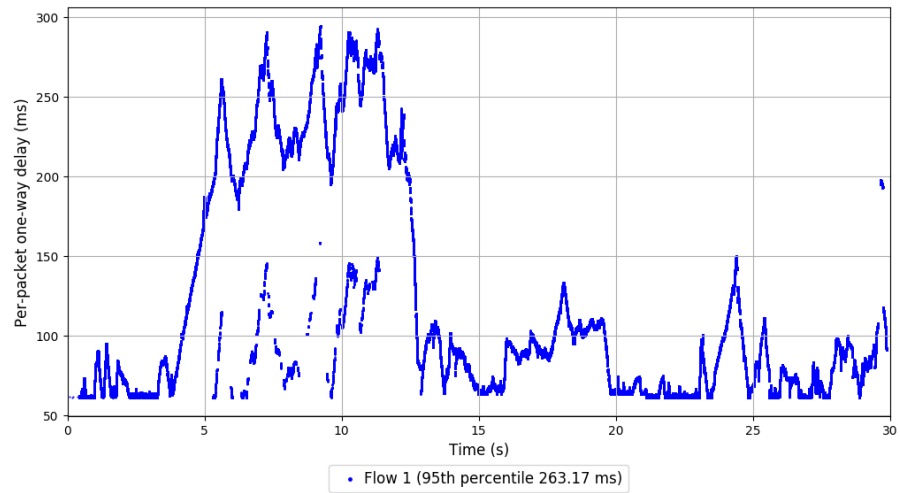
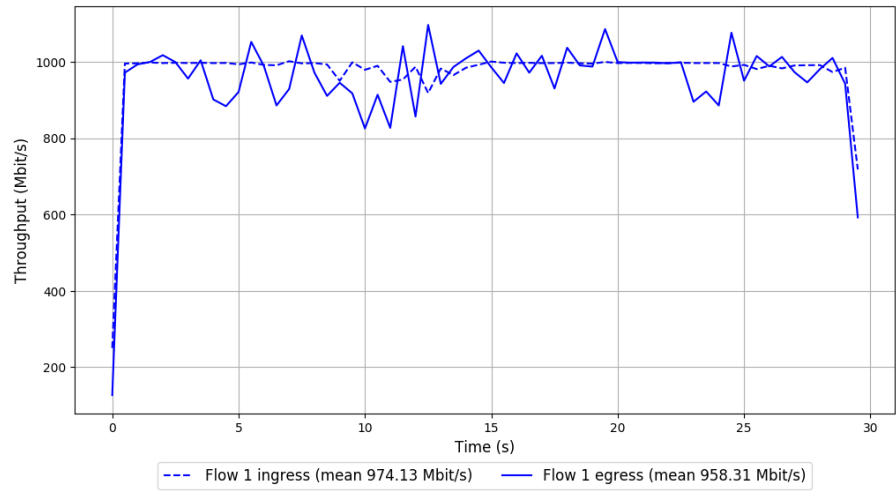
-- Flow 1:

Average throughput: 958.31 Mbit/s

95th percentile per-packet one-way delay: 263.172 ms

Loss rate: 2.13%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-01-17 00:07:23

End at: 2018-01-17 00:07:53

Below is generated by plot.py at 2018-01-17 04:03:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 957.09 Mbit/s

95th percentile per-packet one-way delay: 229.830 ms

Loss rate: 1.42%

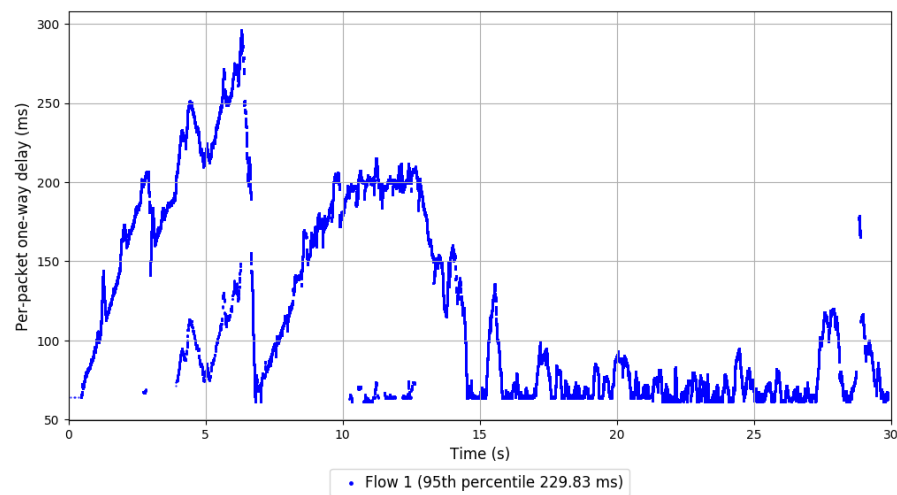
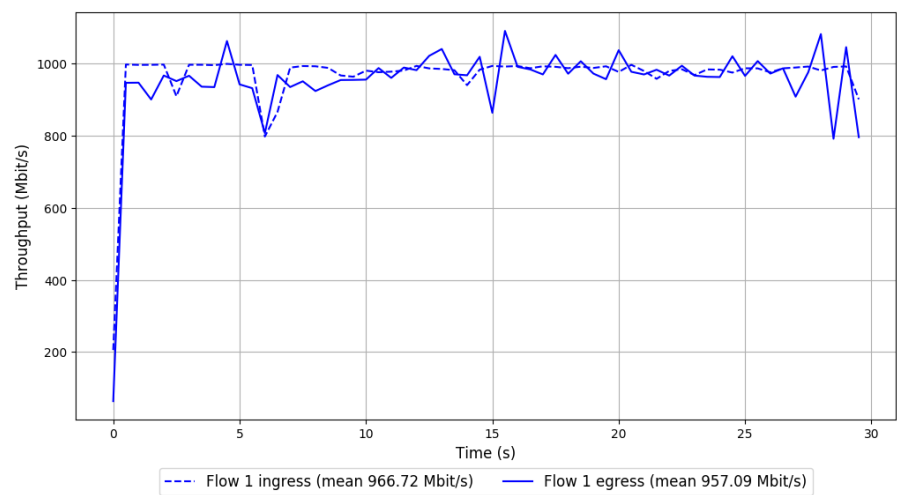
-- Flow 1:

Average throughput: 957.09 Mbit/s

95th percentile per-packet one-way delay: 229.830 ms

Loss rate: 1.42%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-01-17 00:21:44

End at: 2018-01-17 00:22:14

Below is generated by plot.py at 2018-01-17 04:15:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 938.19 Mbit/s

95th percentile per-packet one-way delay: 219.161 ms

Loss rate: 3.22%

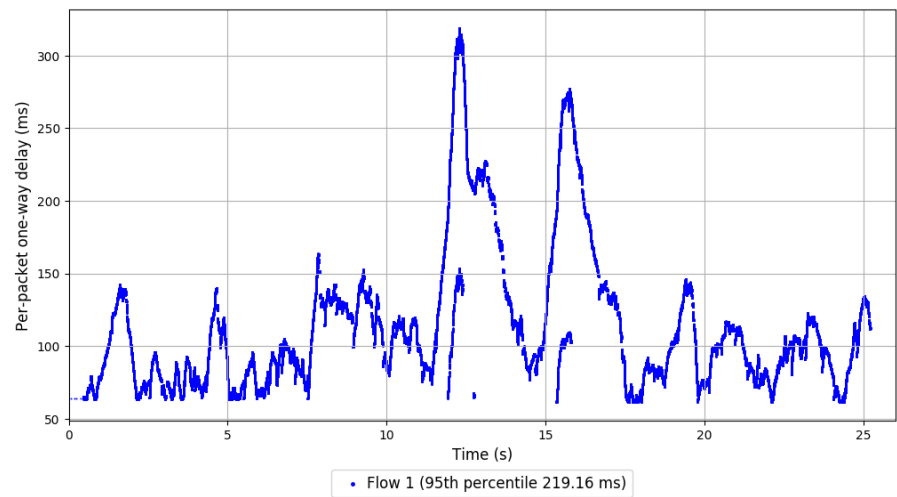
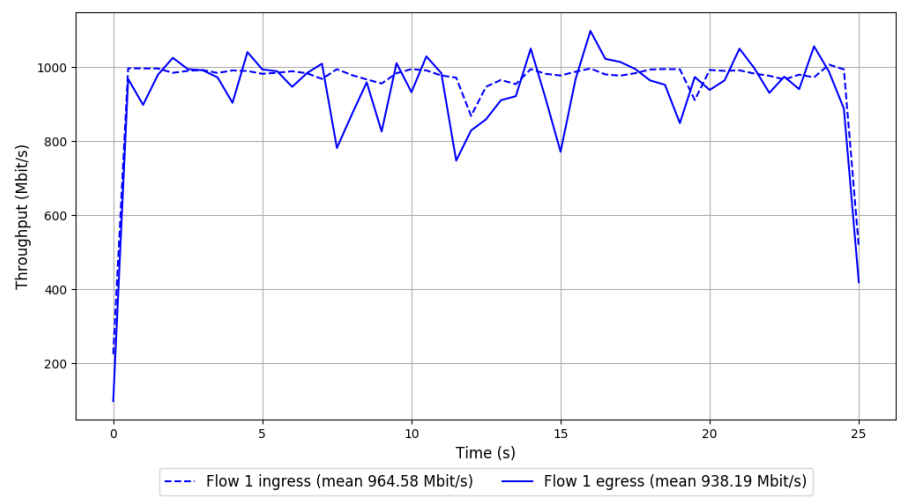
-- Flow 1:

Average throughput: 938.19 Mbit/s

95th percentile per-packet one-way delay: 219.161 ms

Loss rate: 3.22%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-01-17 00:36:05

End at: 2018-01-17 00:36:35

Below is generated by plot.py at 2018-01-17 04:17:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 952.99 Mbit/s

95th percentile per-packet one-way delay: 171.280 ms

Loss rate: 2.23%

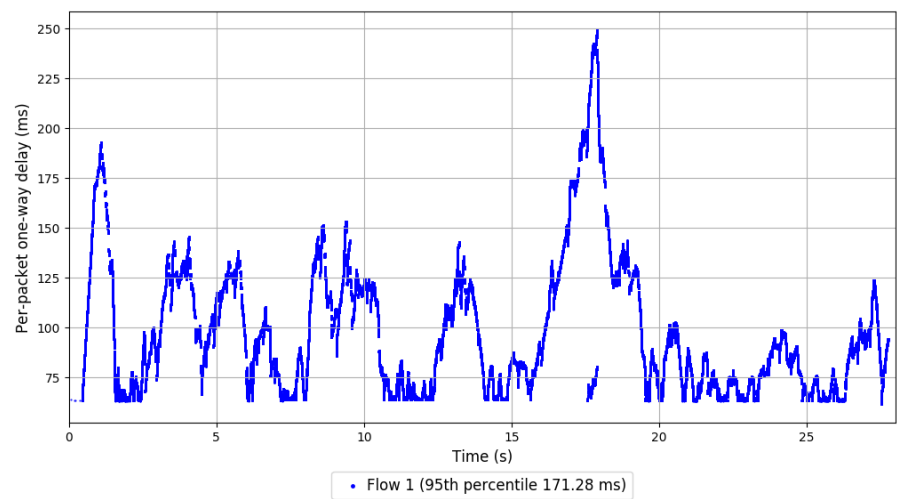
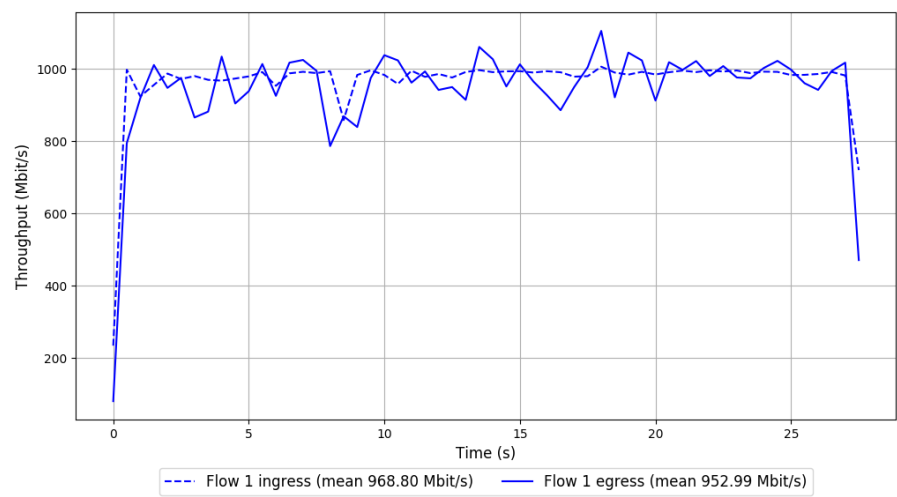
-- Flow 1:

Average throughput: 952.99 Mbit/s

95th percentile per-packet one-way delay: 171.280 ms

Loss rate: 2.23%

Run 10: Report of FillP — Data Link

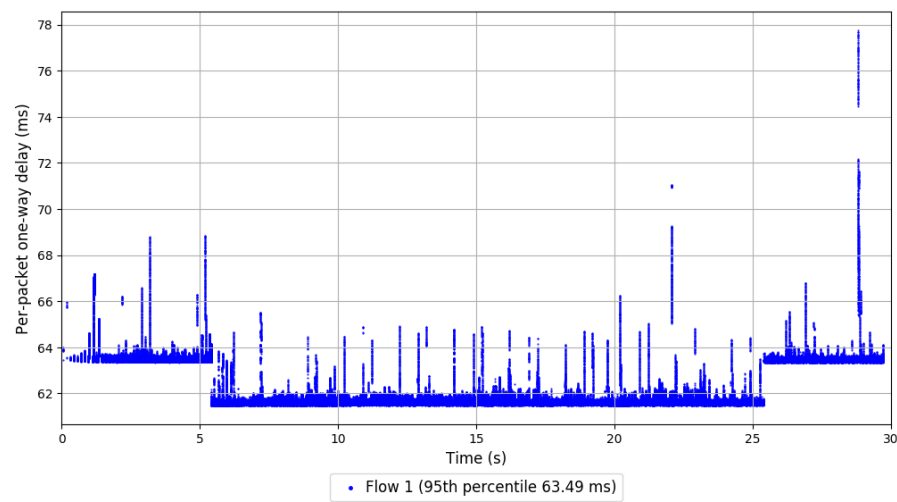
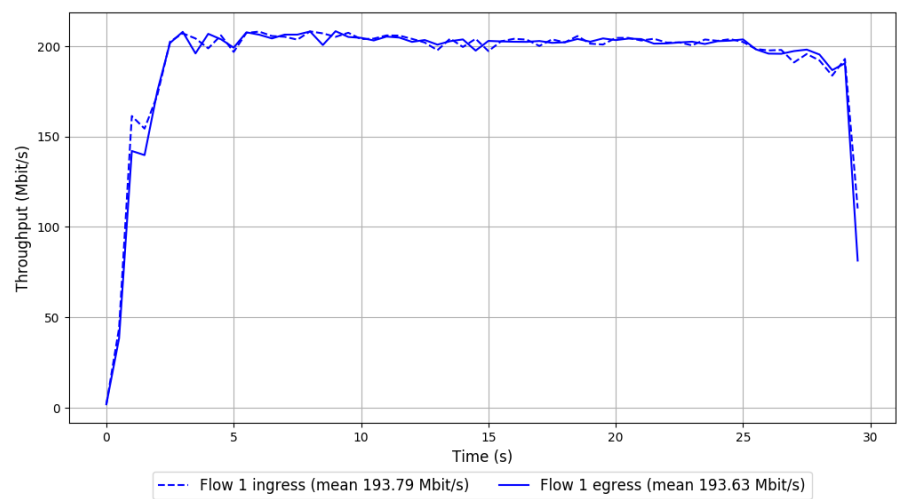


```
Run 1: Statistics of Indigo

Start at: 2018-01-16 22:25:39
End at: 2018-01-16 22:26:09

# Below is generated by plot.py at 2018-01-17 04:17:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 193.63 Mbit/s
95th percentile per-packet one-way delay: 63.488 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 193.63 Mbit/s
95th percentile per-packet one-way delay: 63.488 ms
Loss rate: 0.54%
```

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2018-01-16 22:40:14

End at: 2018-01-16 22:40:44

Below is generated by plot.py at 2018-01-17 04:17:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 194.93 Mbit/s

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

Loss rate: 0.44%

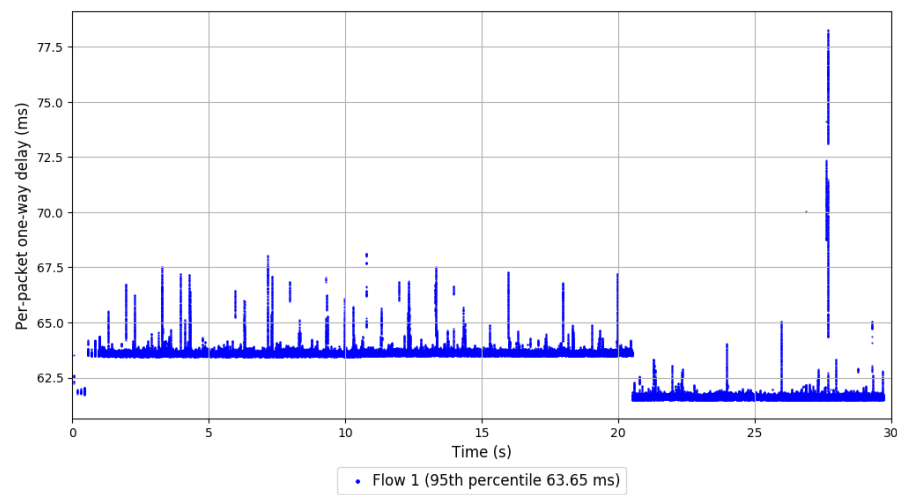
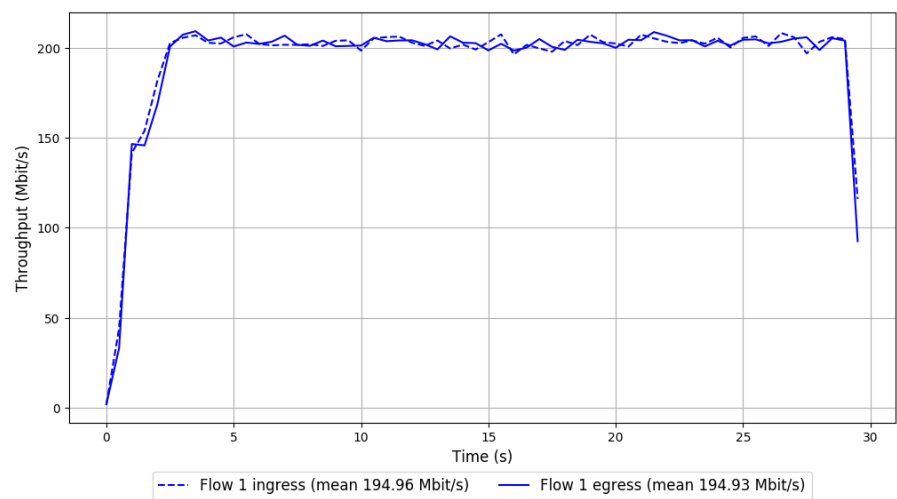
-- Flow 1:

Average throughput: 194.93 Mbit/s

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

Loss rate: 0.44%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2018-01-16 22:54:24

End at: 2018-01-16 22:54:54

Below is generated by plot.py at 2018-01-17 04:17:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 188.53 Mbit/s

95th percentile per-packet one-way delay: 63.547 ms

Loss rate: 0.61%

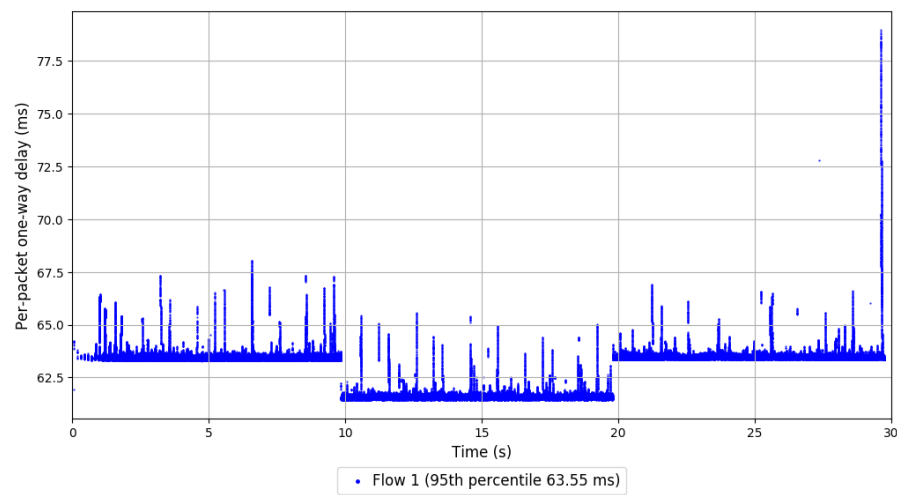
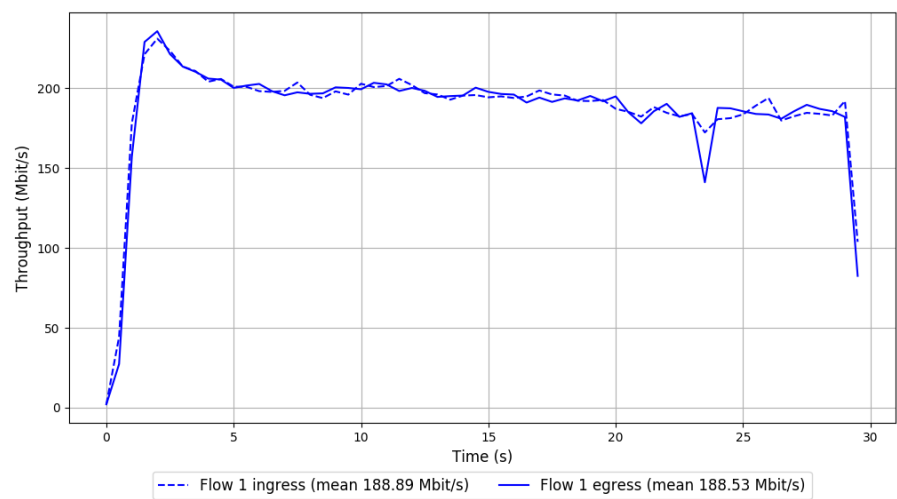
-- Flow 1:

Average throughput: 188.53 Mbit/s

95th percentile per-packet one-way delay: 63.547 ms

Loss rate: 0.61%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2018-01-16 23:08:51

End at: 2018-01-16 23:09:21

Below is generated by plot.py at 2018-01-17 04:17:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 189.20 Mbit/s

95th percentile per-packet one-way delay: 63.622 ms

Loss rate: 0.44%

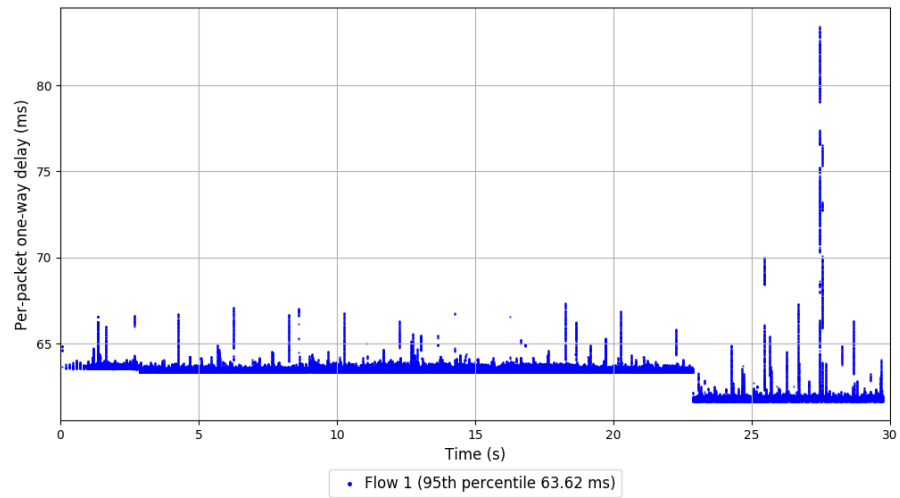
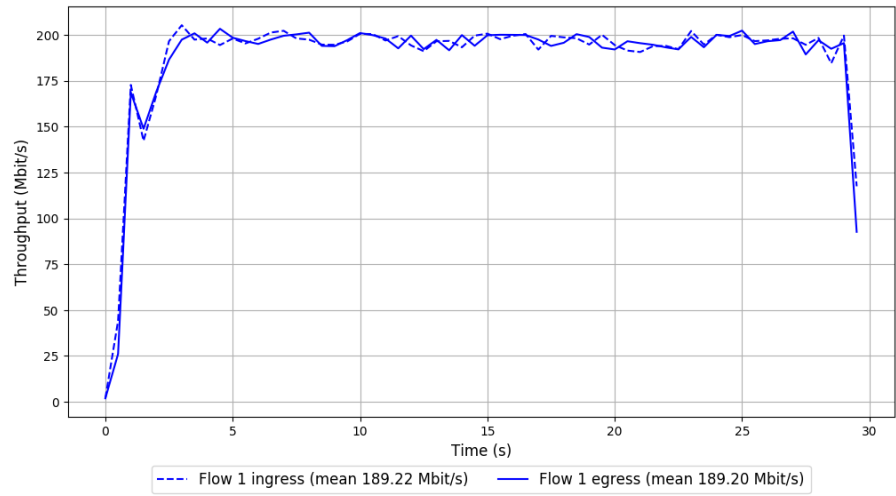
-- Flow 1:

Average throughput: 189.20 Mbit/s

95th percentile per-packet one-way delay: 63.622 ms

Loss rate: 0.44%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2018-01-16 23:23:05

End at: 2018-01-16 23:23:35

Below is generated by plot.py at 2018-01-17 04:17:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 195.96 Mbit/s

95th percentile per-packet one-way delay: 63.738 ms

Loss rate: 0.43%

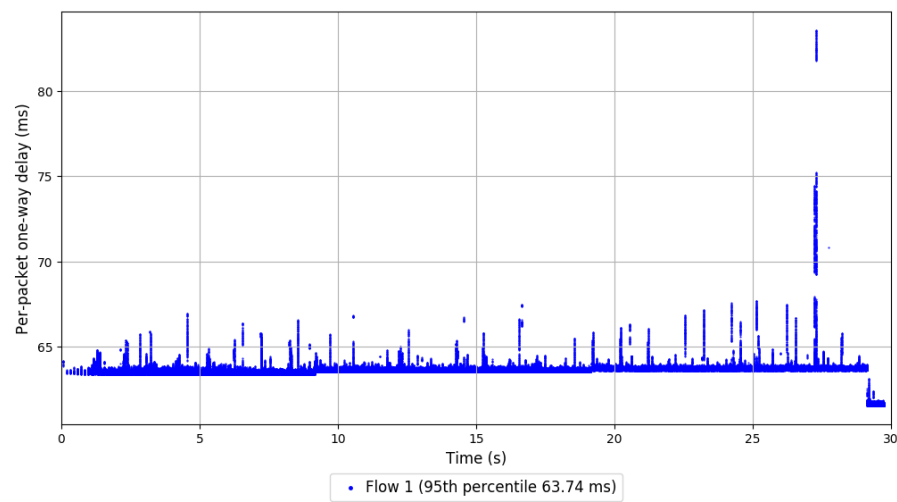
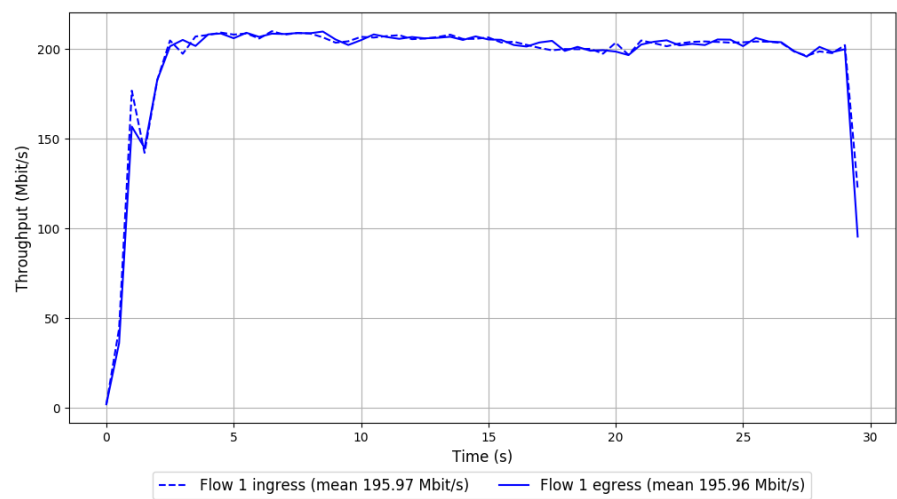
-- Flow 1:

Average throughput: 195.96 Mbit/s

95th percentile per-packet one-way delay: 63.738 ms

Loss rate: 0.43%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2018-01-16 23:37:24

End at: 2018-01-16 23:37:54

Below is generated by plot.py at 2018-01-17 04:17:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 190.42 Mbit/s

95th percentile per-packet one-way delay: 63.733 ms

Loss rate: 0.44%

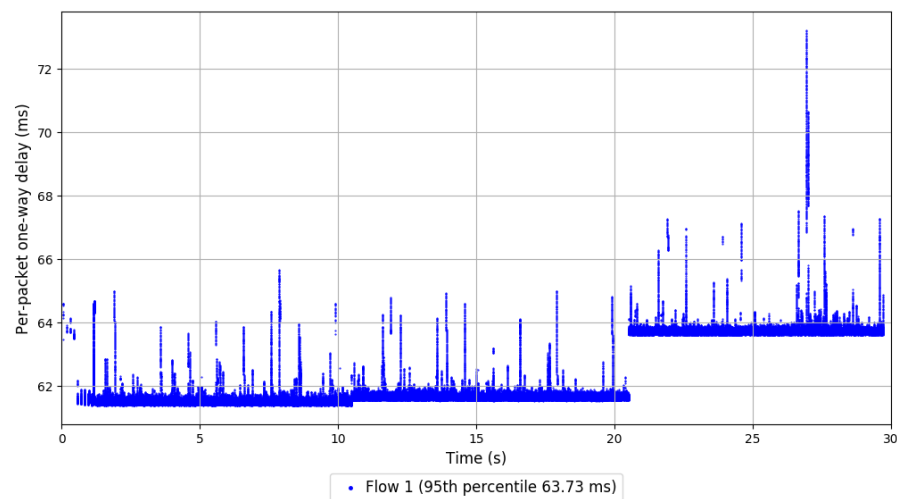
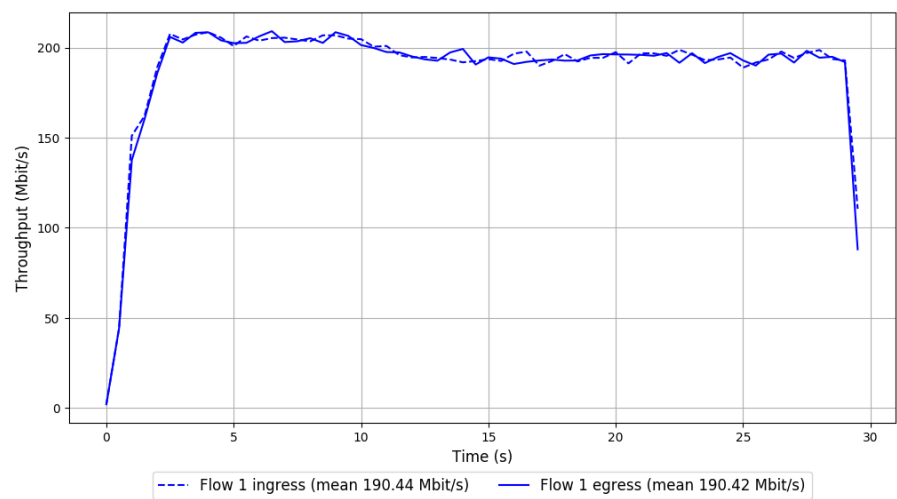
-- Flow 1:

Average throughput: 190.42 Mbit/s

95th percentile per-packet one-way delay: 63.733 ms

Loss rate: 0.44%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2018-01-16 23:51:26

End at: 2018-01-16 23:51:56

Below is generated by plot.py at 2018-01-17 04:17:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 188.16 Mbit/s

95th percentile per-packet one-way delay: 61.716 ms

Loss rate: 0.65%

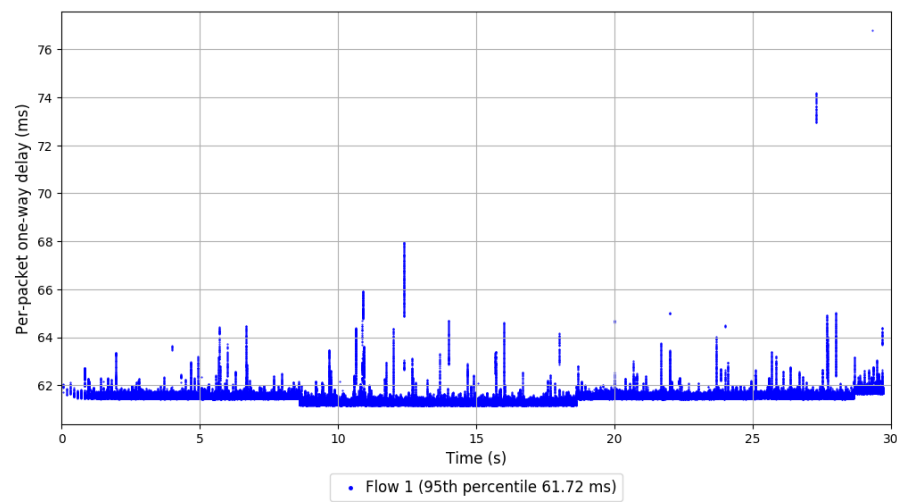
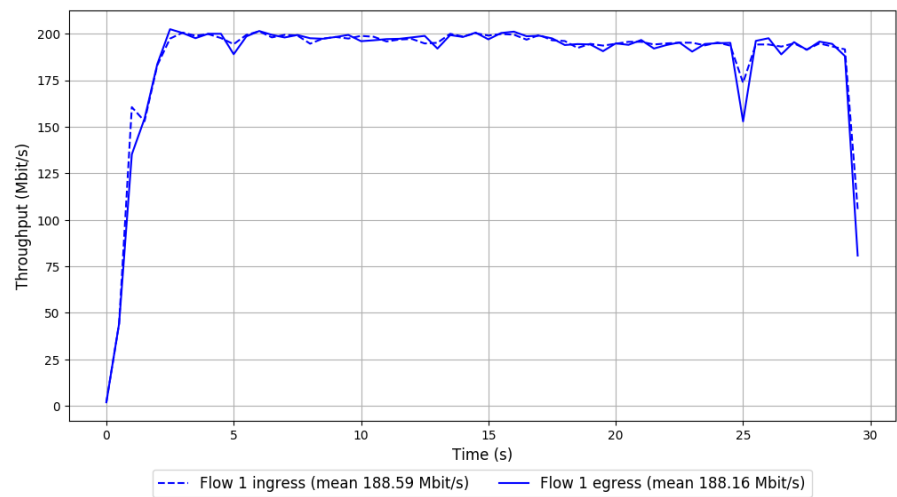
-- Flow 1:

Average throughput: 188.16 Mbit/s

95th percentile per-packet one-way delay: 61.716 ms

Loss rate: 0.65%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2018-01-17 00:05:42

End at: 2018-01-17 00:06:12

Below is generated by plot.py at 2018-01-17 04:17:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 142.11 Mbit/s

95th percentile per-packet one-way delay: 75.386 ms

Loss rate: 0.92%

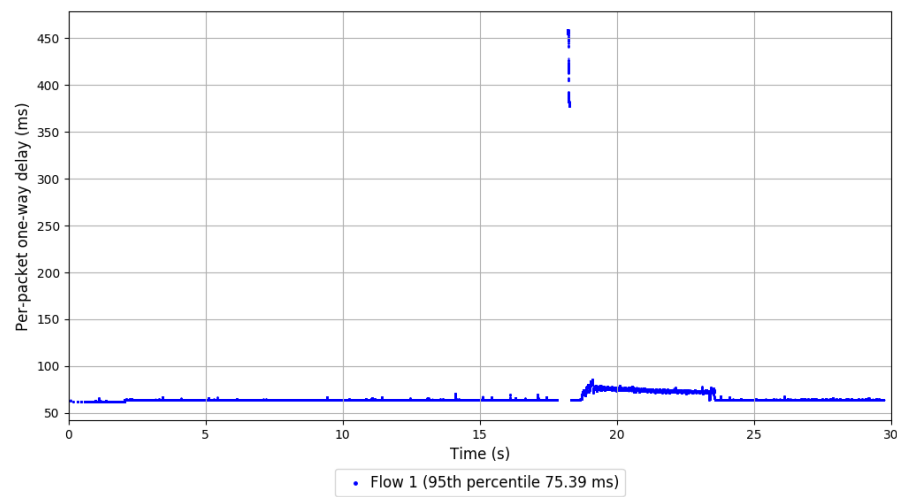
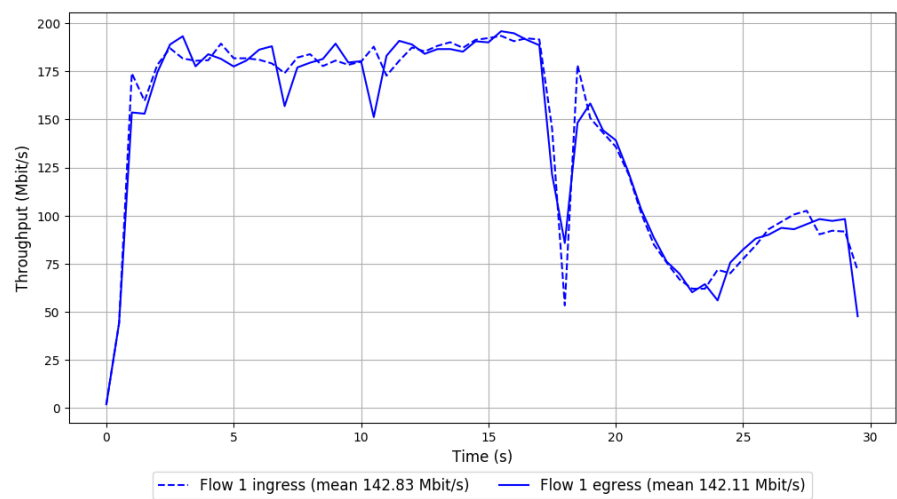
-- Flow 1:

Average throughput: 142.11 Mbit/s

95th percentile per-packet one-way delay: 75.386 ms

Loss rate: 0.92%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2018-01-17 00:20:14

End at: 2018-01-17 00:20:44

Below is generated by plot.py at 2018-01-17 04:17:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 191.97 Mbit/s

95th percentile per-packet one-way delay: 63.834 ms

Loss rate: 0.63%

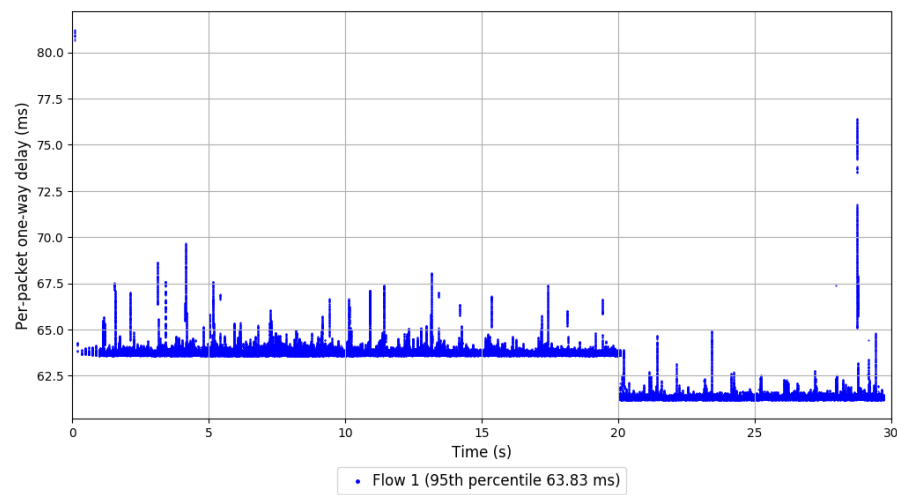
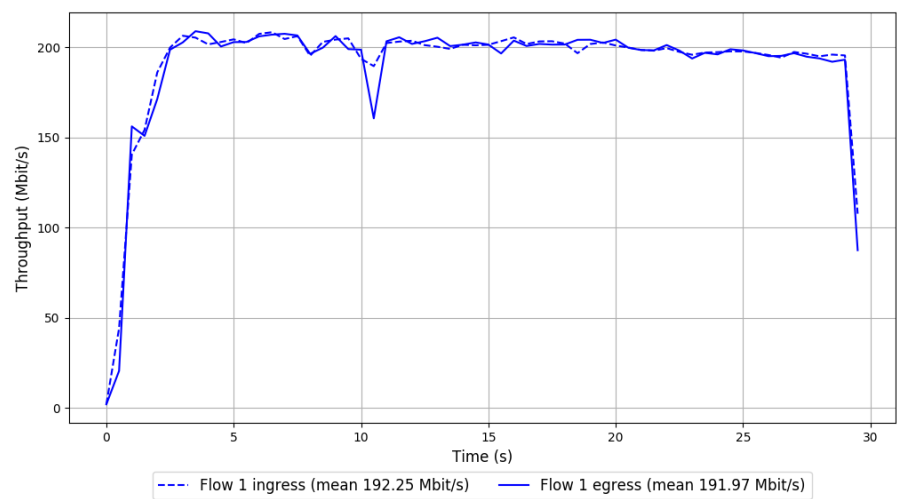
-- Flow 1:

Average throughput: 191.97 Mbit/s

95th percentile per-packet one-way delay: 63.834 ms

Loss rate: 0.63%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2018-01-17 00:34:37

End at: 2018-01-17 00:35:07

Below is generated by plot.py at 2018-01-17 04:17:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 184.94 Mbit/s

95th percentile per-packet one-way delay: 63.800 ms

Loss rate: 0.44%

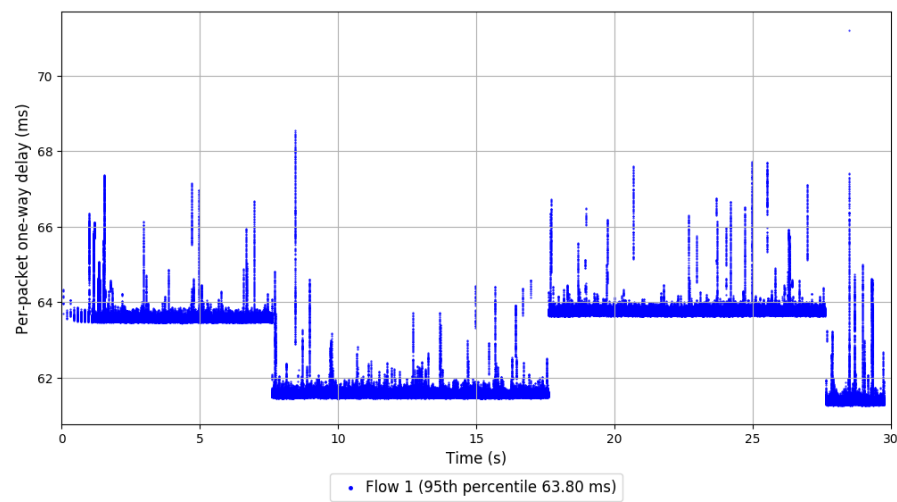
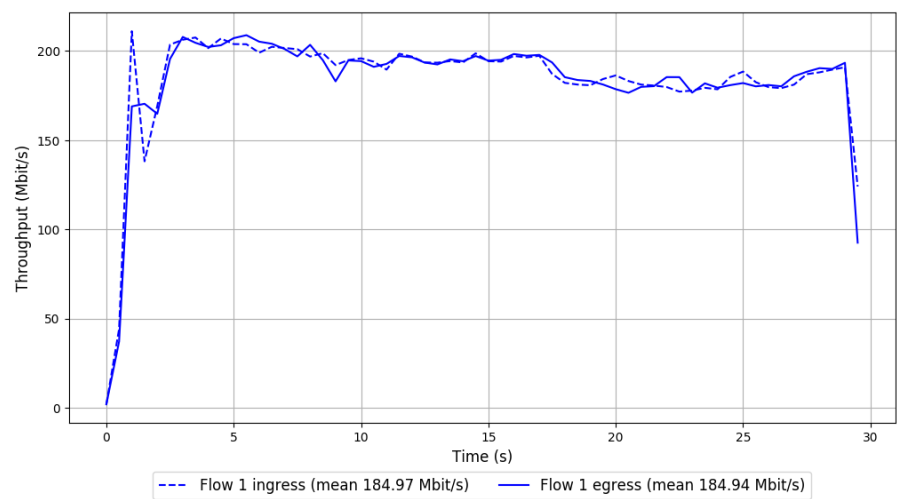
-- Flow 1:

Average throughput: 184.94 Mbit/s

95th percentile per-packet one-way delay: 63.800 ms

Loss rate: 0.44%

Run 10: Report of Indigo — Data Link



Run 1: Statistics of Vivace-latency

Start at: 2018-01-16 22:22:27

End at: 2018-01-16 22:22:57

Below is generated by plot.py at 2018-01-17 04:17:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 223.12 Mbit/s

95th percentile per-packet one-way delay: 69.360 ms

Loss rate: 0.33%

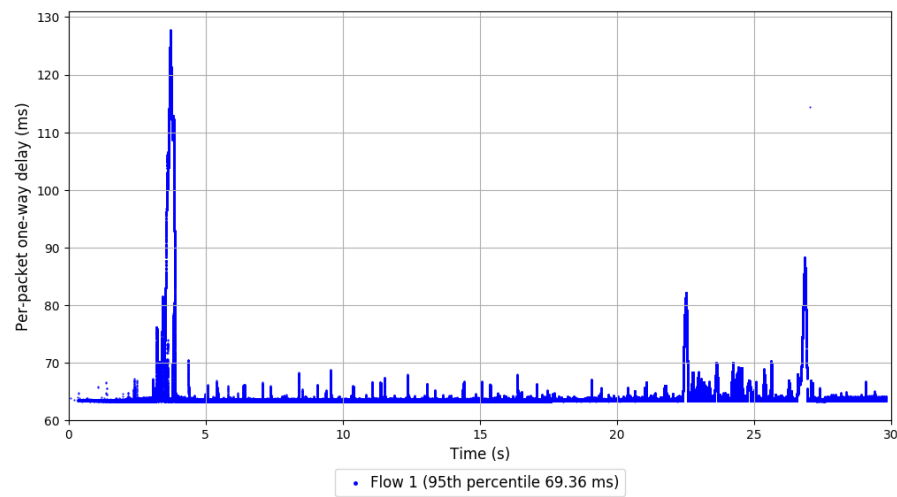
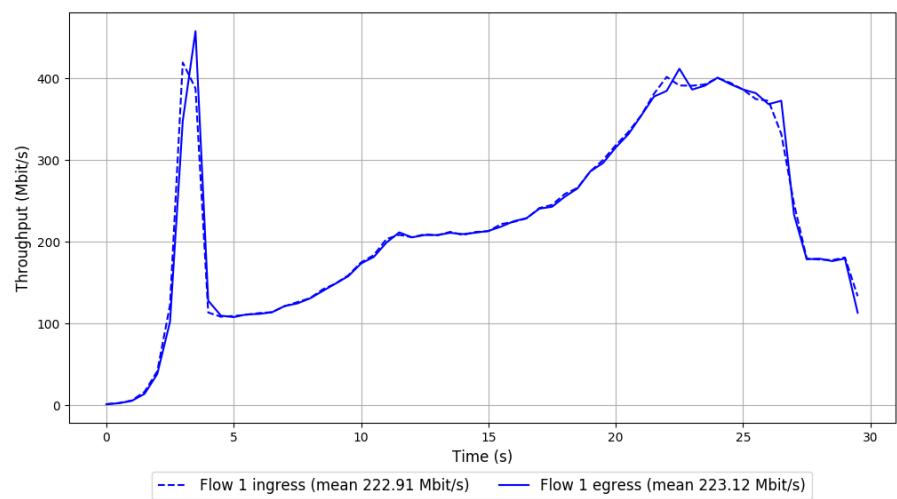
-- Flow 1:

Average throughput: 223.12 Mbit/s

95th percentile per-packet one-way delay: 69.360 ms

Loss rate: 0.33%

Run 1: Report of Vivace-latency — Data Link



Run 2: Statistics of Vivace-latency

Start at: 2018-01-16 22:36:57

End at: 2018-01-16 22:37:27

Below is generated by plot.py at 2018-01-17 04:17:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 277.90 Mbit/s

95th percentile per-packet one-way delay: 102.951 ms

Loss rate: 0.49%

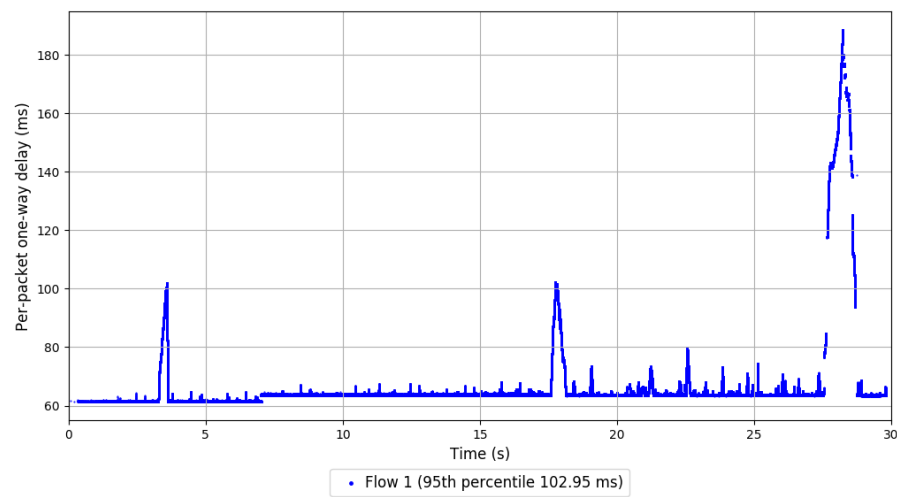
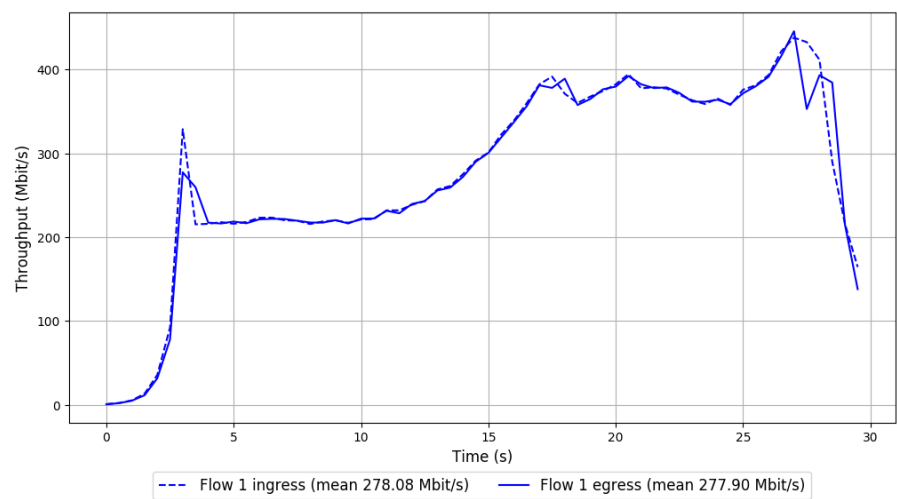
-- Flow 1:

Average throughput: 277.90 Mbit/s

95th percentile per-packet one-way delay: 102.951 ms

Loss rate: 0.49%

Run 2: Report of Vivace-latency — Data Link



Run 3: Statistics of Vivace-latency

Start at: 2018-01-16 22:51:18

End at: 2018-01-16 22:51:48

Below is generated by plot.py at 2018-01-17 04:17:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 175.06 Mbit/s

95th percentile per-packet one-way delay: 66.103 ms

Loss rate: 0.56%

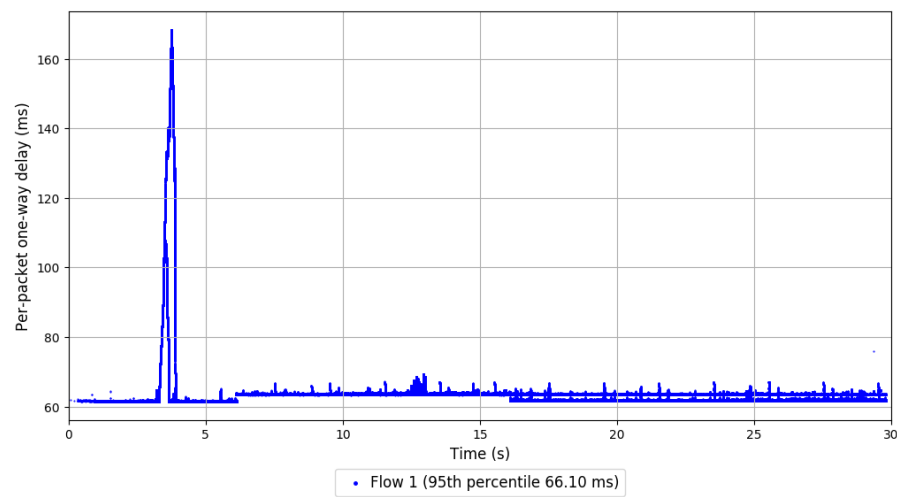
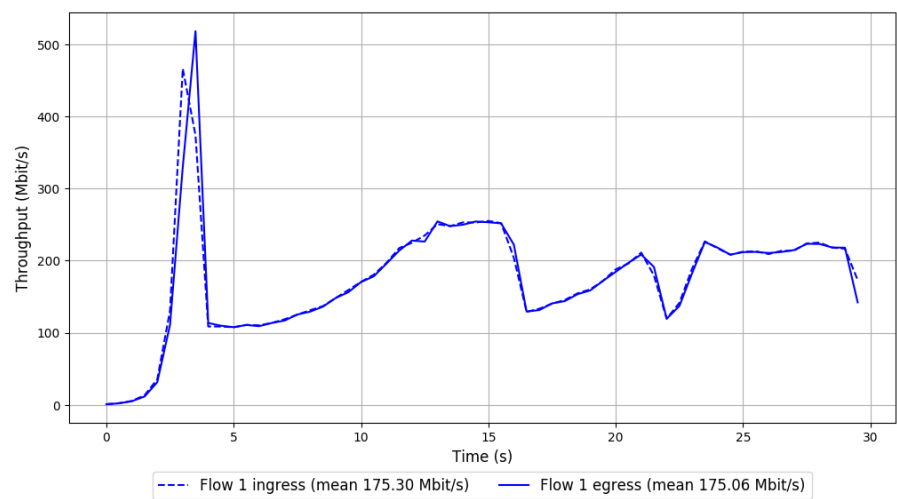
-- Flow 1:

Average throughput: 175.06 Mbit/s

95th percentile per-packet one-way delay: 66.103 ms

Loss rate: 0.56%

Run 3: Report of Vivace-latency — Data Link



Run 4: Statistics of Vivace-latency

Start at: 2018-01-16 23:05:46

End at: 2018-01-16 23:06:16

Below is generated by plot.py at 2018-01-17 04:17:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 164.99 Mbit/s

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

Loss rate: 0.35%

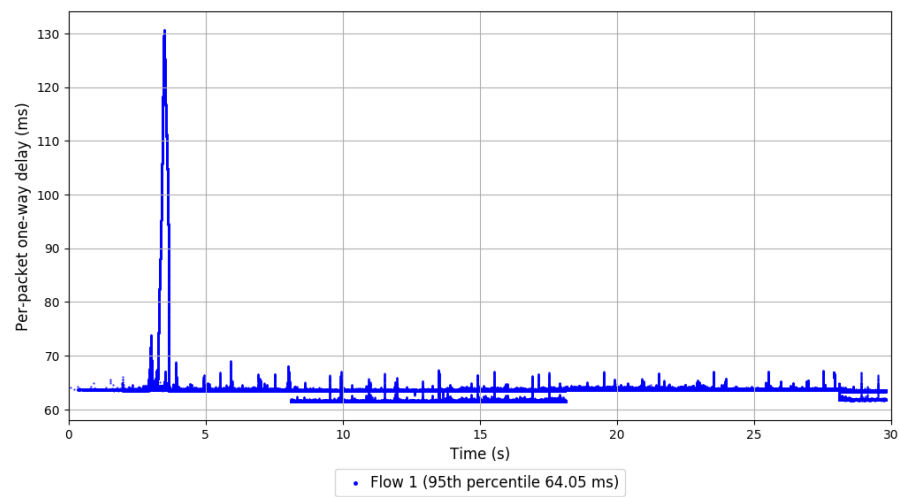
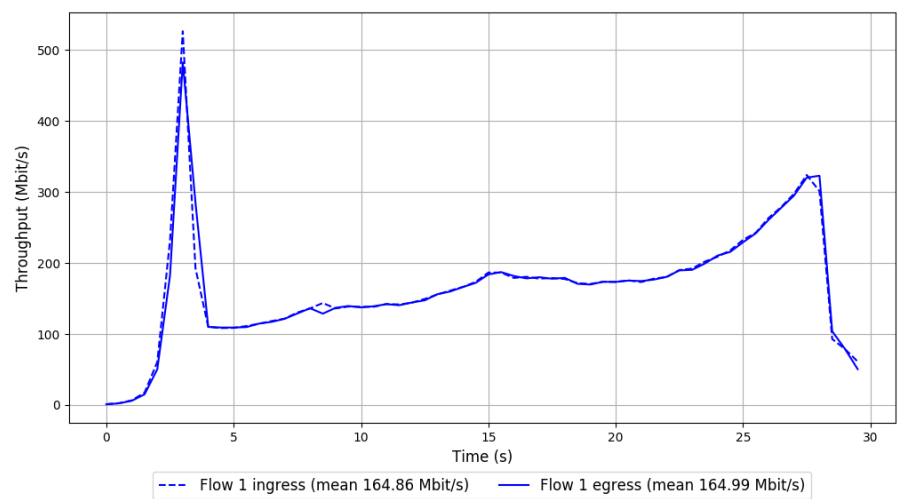
-- Flow 1:

Average throughput: 164.99 Mbit/s

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

Loss rate: 0.35%

Run 4: Report of Vivace-latency — Data Link



Run 5: Statistics of Vivace-latency

Start at: 2018-01-16 23:19:59

End at: 2018-01-16 23:20:29

Below is generated by plot.py at 2018-01-17 04:17:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 178.53 Mbit/s

95th percentile per-packet one-way delay: 64.116 ms

Loss rate: 0.42%

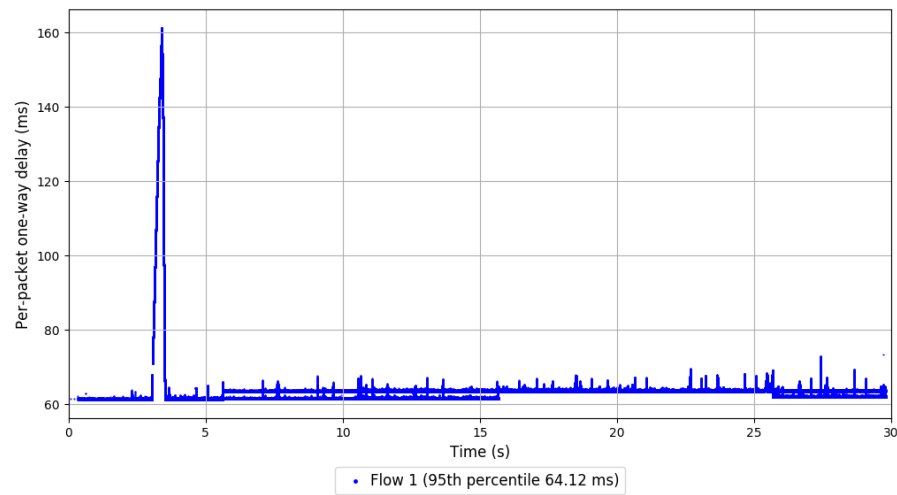
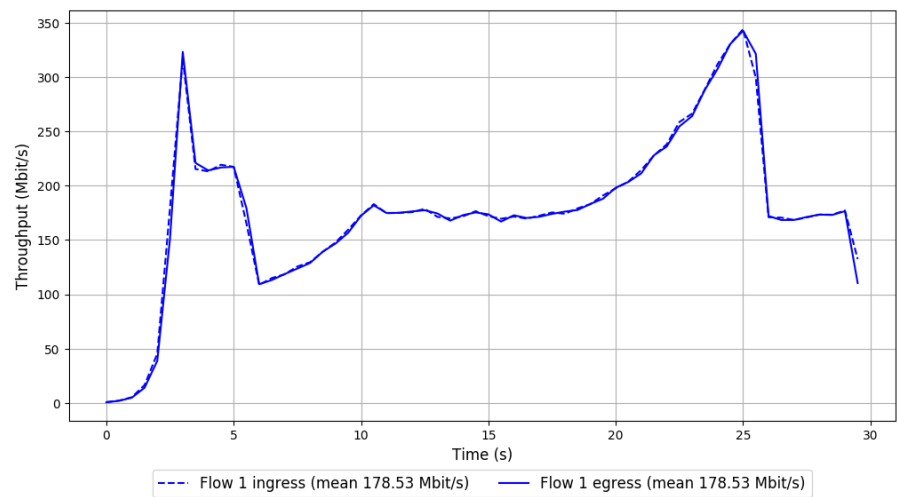
-- Flow 1:

Average throughput: 178.53 Mbit/s

95th percentile per-packet one-way delay: 64.116 ms

Loss rate: 0.42%

Run 5: Report of Vivace-latency — Data Link



Run 6: Statistics of Vivace-latency

Start at: 2018-01-16 23:34:21

End at: 2018-01-16 23:34:51

Below is generated by plot.py at 2018-01-17 04:17:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 152.77 Mbit/s

95th percentile per-packet one-way delay: 63.758 ms

Loss rate: 1.19%

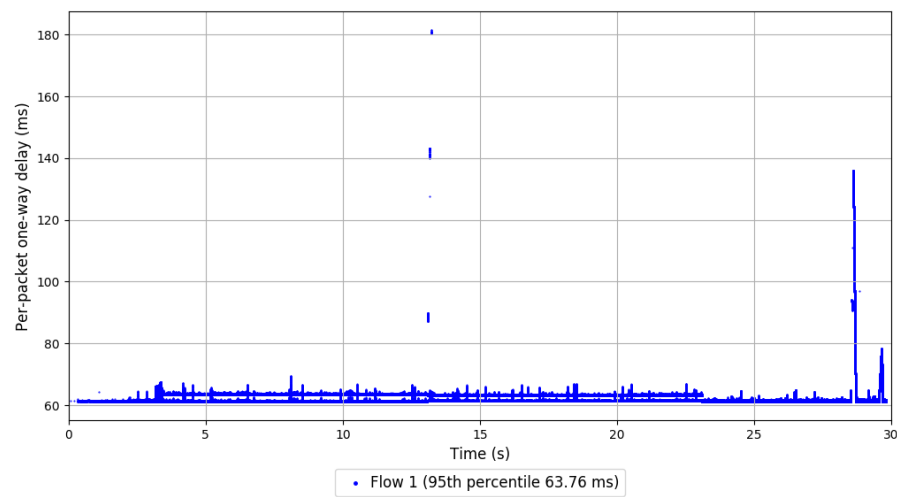
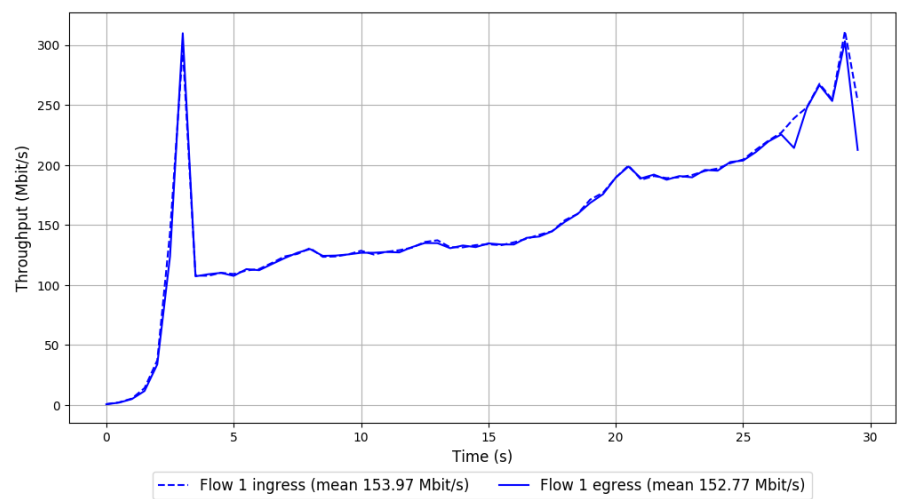
-- Flow 1:

Average throughput: 152.77 Mbit/s

95th percentile per-packet one-way delay: 63.758 ms

Loss rate: 1.19%

Run 6: Report of Vivace-latency — Data Link



Run 7: Statistics of Vivace-latency

Start at: 2018-01-16 23:48:18

End at: 2018-01-16 23:48:48

Below is generated by plot.py at 2018-01-17 04:18:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 185.58 Mbit/s

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

Loss rate: 1.11%

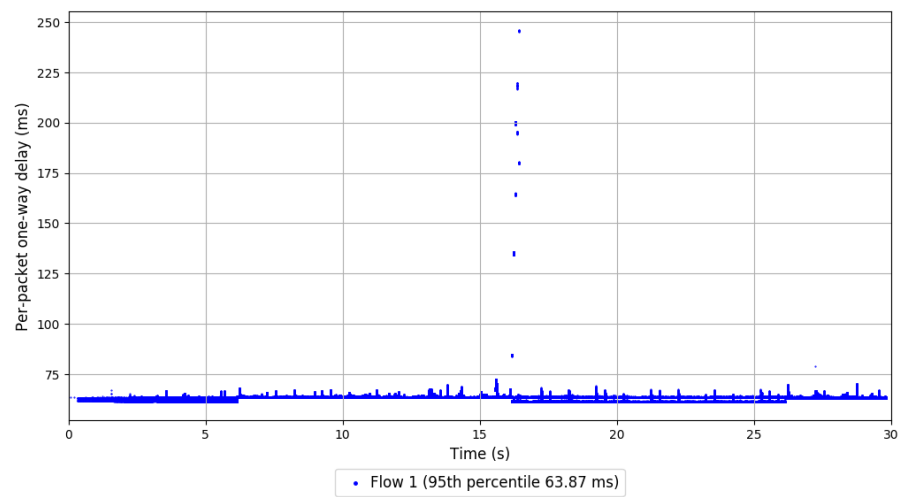
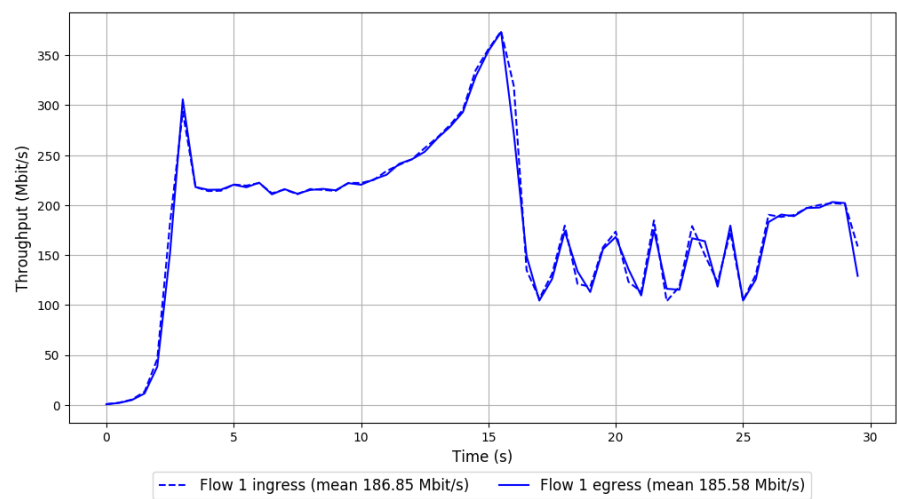
-- Flow 1:

Average throughput: 185.58 Mbit/s

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

Loss rate: 1.11%

Run 7: Report of Vivace-latency — Data Link



Run 8: Statistics of Vivace-latency

Start at: 2018-01-17 00:02:36

End at: 2018-01-17 00:03:06

Below is generated by plot.py at 2018-01-17 04:18:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 155.90 Mbit/s

95th percentile per-packet one-way delay: 63.663 ms

Loss rate: 0.58%

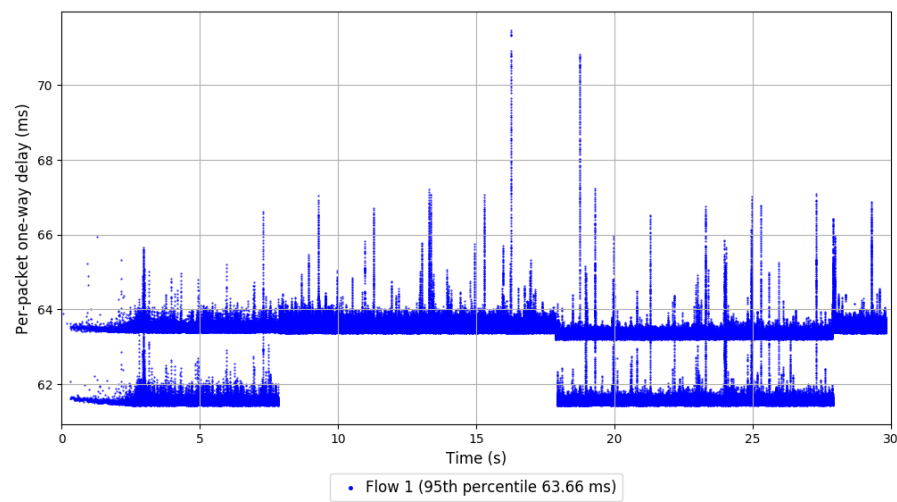
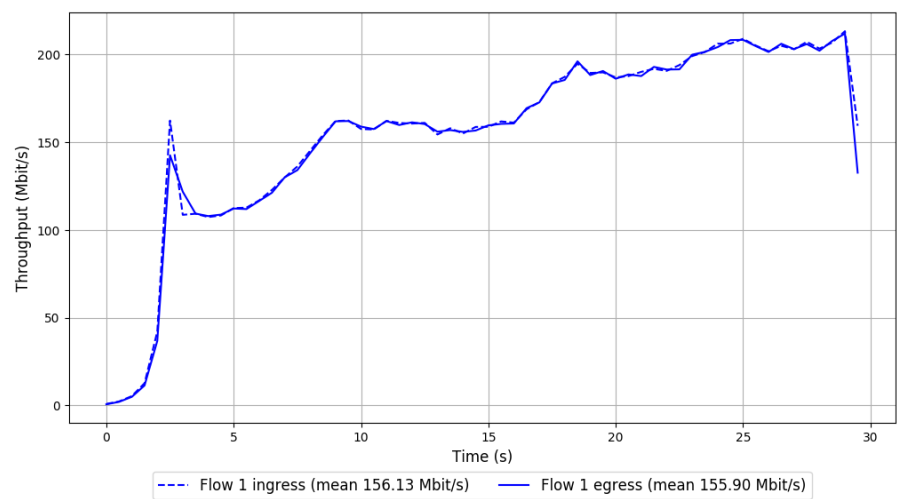
-- Flow 1:

Average throughput: 155.90 Mbit/s

95th percentile per-packet one-way delay: 63.663 ms

Loss rate: 0.58%

Run 8: Report of Vivace-latency — Data Link



Run 9: Statistics of Vivace-latency

Start at: 2018-01-17 00:17:08

End at: 2018-01-17 00:17:38

Below is generated by plot.py at 2018-01-17 04:20:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 188.60 Mbit/s

95th percentile per-packet one-way delay: 72.779 ms

Loss rate: 0.26%

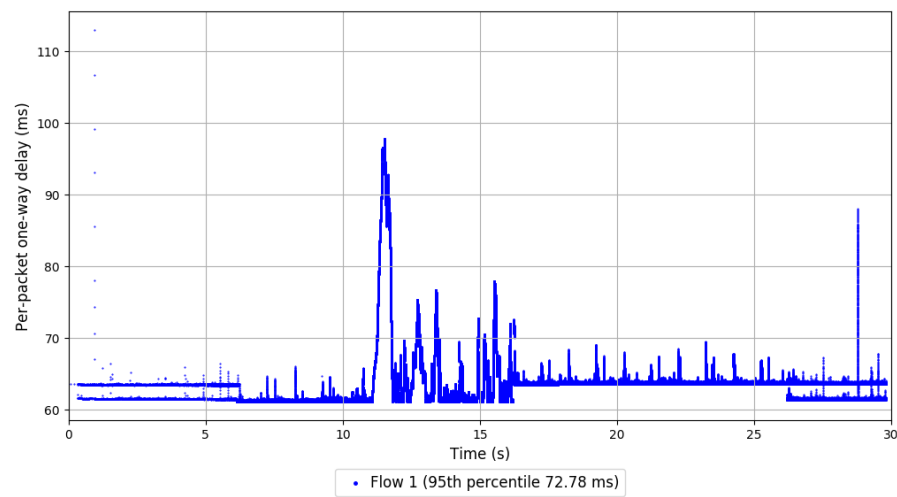
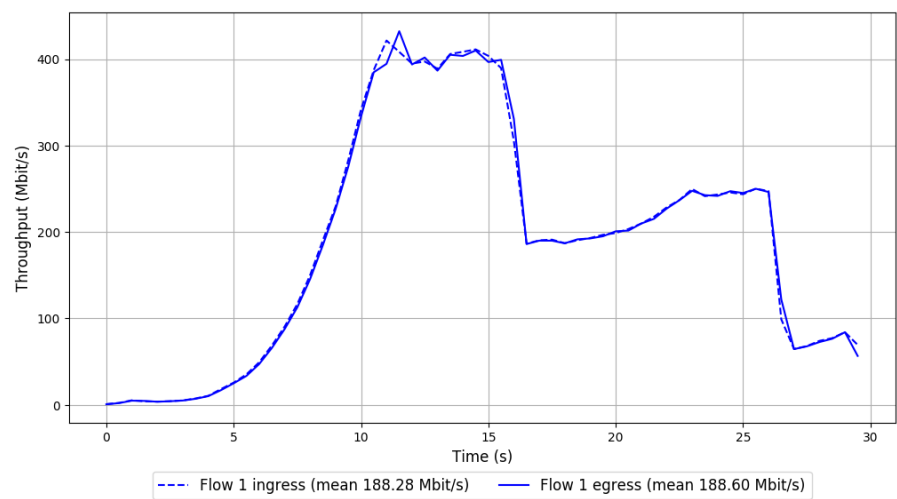
-- Flow 1:

Average throughput: 188.60 Mbit/s

95th percentile per-packet one-way delay: 72.779 ms

Loss rate: 0.26%

Run 9: Report of Vivace-latency — Data Link



Run 10: Statistics of Vivace-latency

Start at: 2018-01-17 00:31:20

End at: 2018-01-17 00:31:50

Below is generated by plot.py at 2018-01-17 04:23:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 279.62 Mbit/s

95th percentile per-packet one-way delay: 71.698 ms

Loss rate: 0.55%

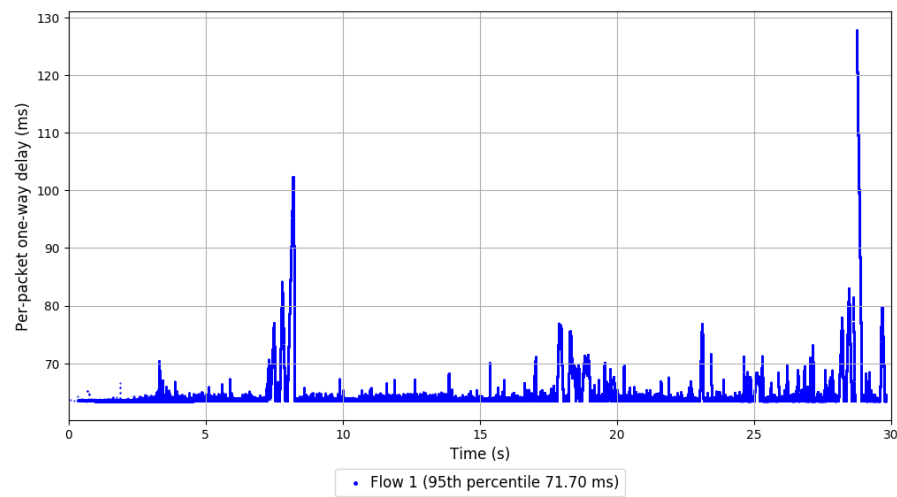
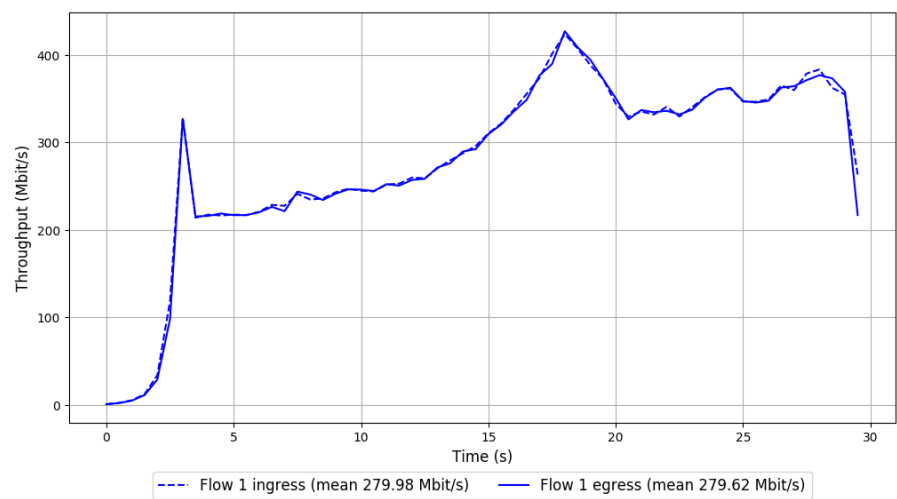
-- Flow 1:

Average throughput: 279.62 Mbit/s

95th percentile per-packet one-way delay: 71.698 ms

Loss rate: 0.55%

Run 10: Report of Vivace-latency — Data Link

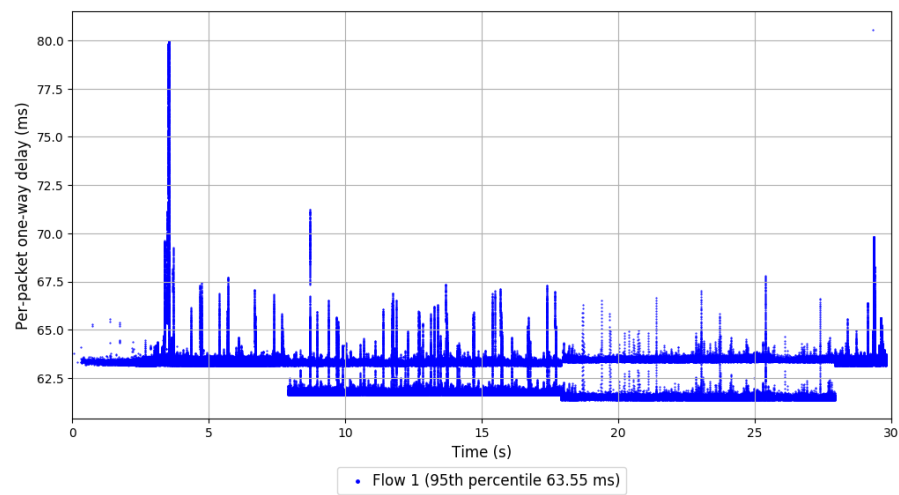
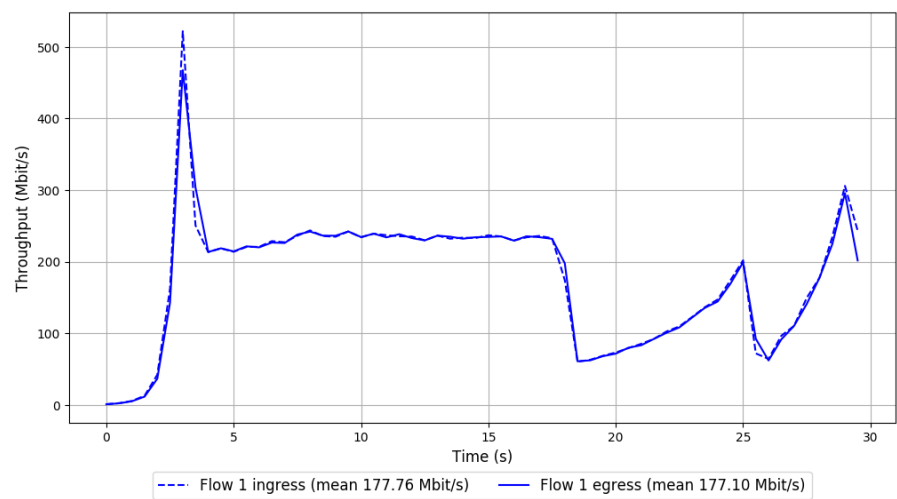


```
Run 1: Statistics of Vivace-loss

Start at: 2018-01-16 22:20:16
End at: 2018-01-16 22:20:46

# Below is generated by plot.py at 2018-01-17 04:23:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 177.10 Mbit/s
95th percentile per-packet one-way delay: 63.551 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 177.10 Mbit/s
95th percentile per-packet one-way delay: 63.551 ms
Loss rate: 0.80%
```

Run 1: Report of Vivace-loss — Data Link

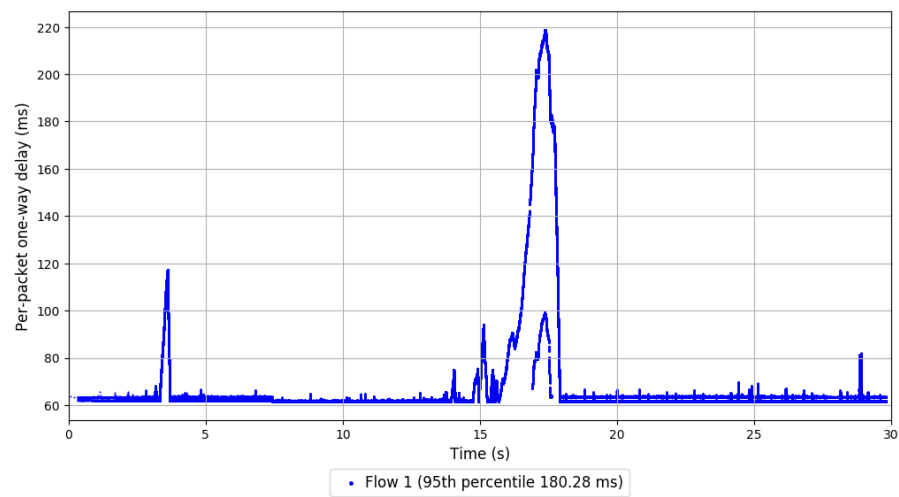
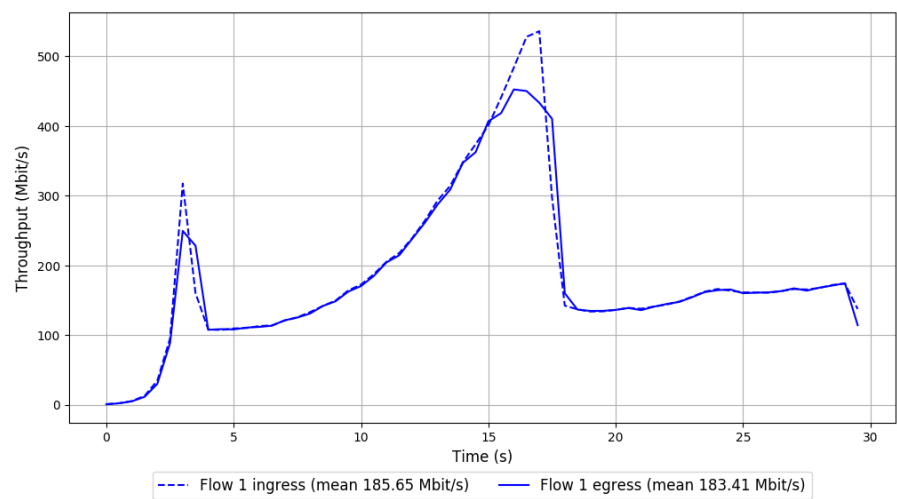


```
Run 2: Statistics of Vivace-loss

Start at: 2018-01-16 22:34:47
End at: 2018-01-16 22:35:17

# Below is generated by plot.py at 2018-01-17 04:23:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 183.41 Mbit/s
95th percentile per-packet one-way delay: 180.282 ms
Loss rate: 1.62%
-- Flow 1:
Average throughput: 183.41 Mbit/s
95th percentile per-packet one-way delay: 180.282 ms
Loss rate: 1.62%
```

Run 2: Report of Vivace-loss — Data Link



Run 3: Statistics of Vivace-loss

Start at: 2018-01-16 22:49:09

End at: 2018-01-16 22:49:39

Below is generated by plot.py at 2018-01-17 04:23:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 176.81 Mbit/s

95th percentile per-packet one-way delay: 65.564 ms

Loss rate: 0.57%

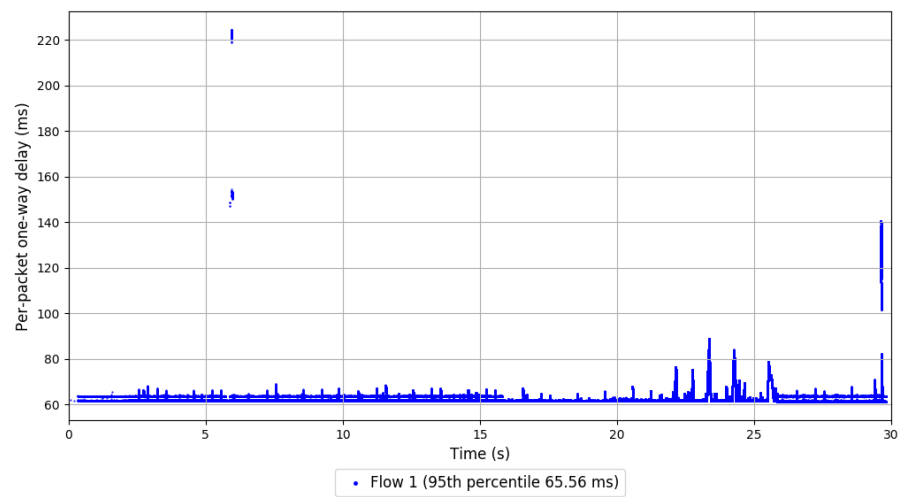
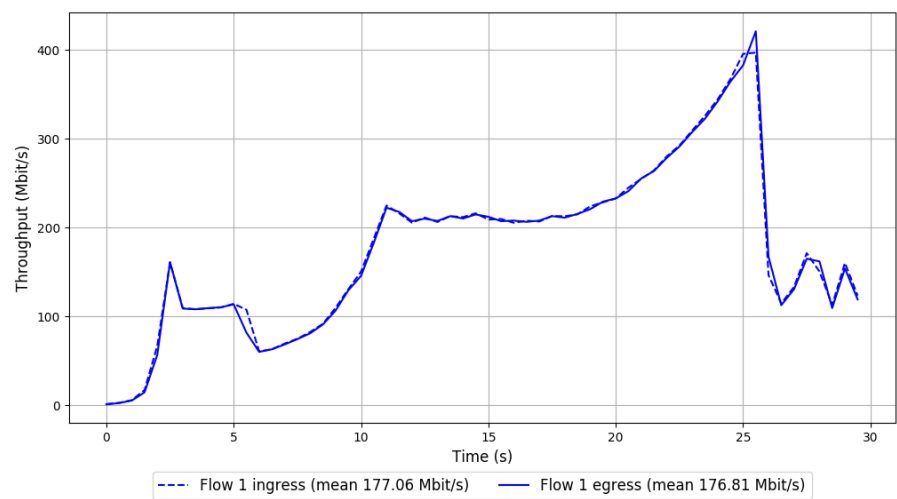
-- Flow 1:

Average throughput: 176.81 Mbit/s

95th percentile per-packet one-way delay: 65.564 ms

Loss rate: 0.57%

Run 3: Report of Vivace-loss — Data Link



Run 4: Statistics of Vivace-loss

Start at: 2018-01-16 23:03:34

End at: 2018-01-16 23:04:04

Below is generated by plot.py at 2018-01-17 04:24:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 211.57 Mbit/s

95th percentile per-packet one-way delay: 148.689 ms

Loss rate: 0.81%

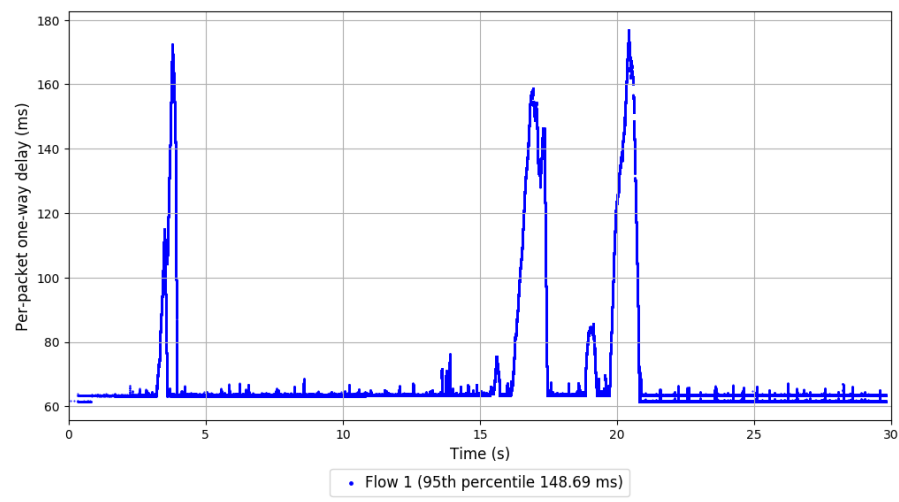
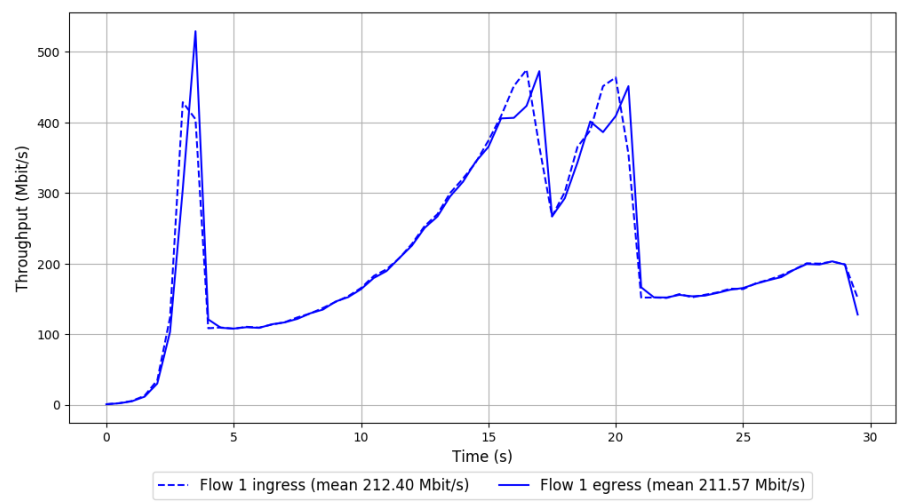
-- Flow 1:

Average throughput: 211.57 Mbit/s

95th percentile per-packet one-way delay: 148.689 ms

Loss rate: 0.81%

Run 4: Report of Vivace-loss — Data Link



Run 5: Statistics of Vivace-loss

Start at: 2018-01-16 23:17:45

End at: 2018-01-16 23:18:15

Below is generated by plot.py at 2018-01-17 04:25:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 212.45 Mbit/s

95th percentile per-packet one-way delay: 65.043 ms

Loss rate: 0.24%

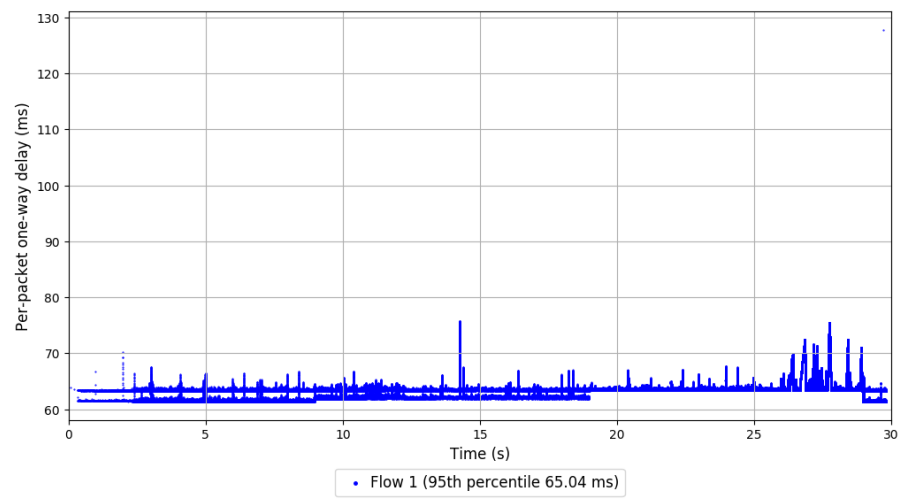
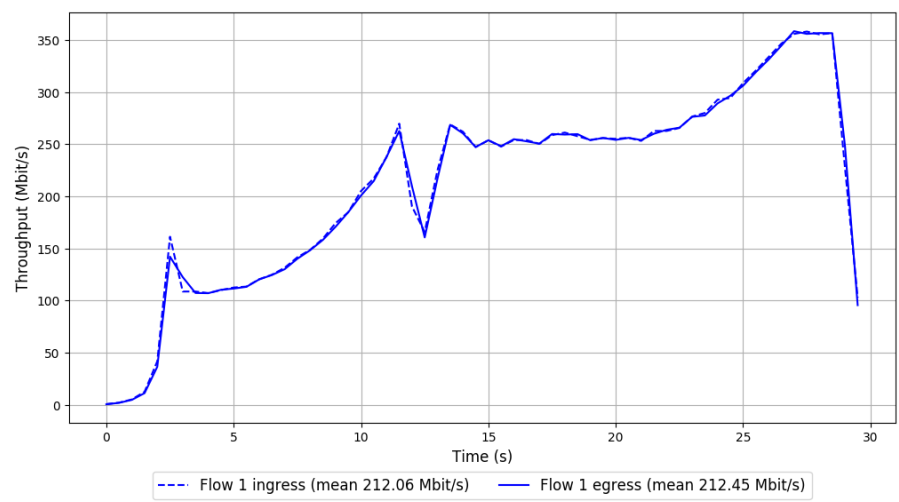
-- Flow 1:

Average throughput: 212.45 Mbit/s

95th percentile per-packet one-way delay: 65.043 ms

Loss rate: 0.24%

Run 5: Report of Vivace-loss — Data Link



Run 6: Statistics of Vivace-loss

Start at: 2018-01-16 23:32:07

End at: 2018-01-16 23:32:37

Below is generated by plot.py at 2018-01-17 04:26:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 226.06 Mbit/s

95th percentile per-packet one-way delay: 76.996 ms

Loss rate: 0.51%

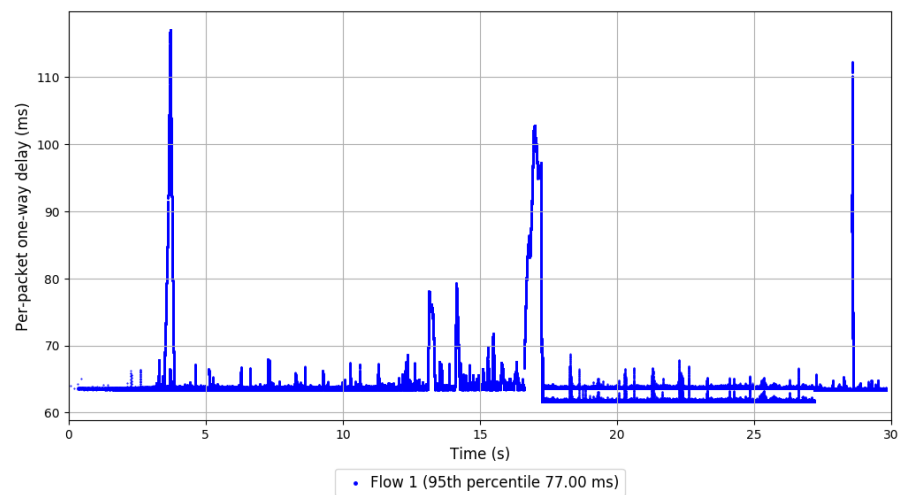
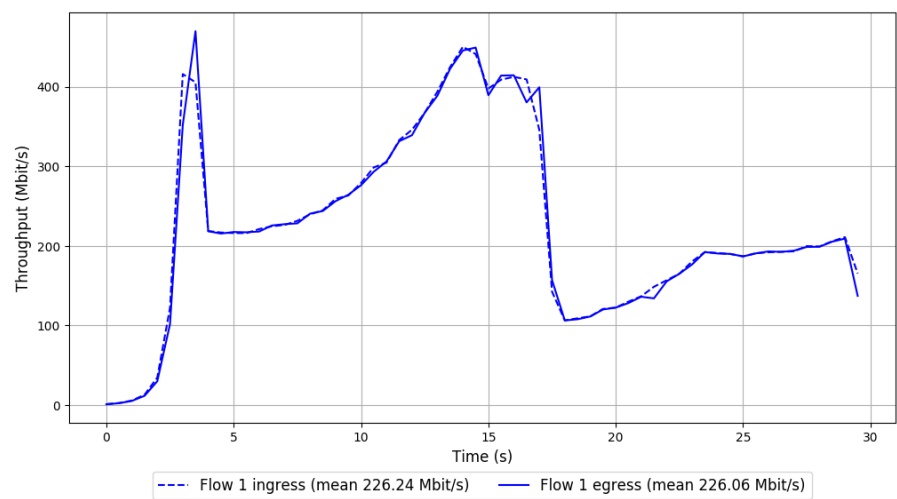
-- Flow 1:

Average throughput: 226.06 Mbit/s

95th percentile per-packet one-way delay: 76.996 ms

Loss rate: 0.51%

Run 6: Report of Vivace-loss — Data Link



Run 7: Statistics of Vivace-loss

Start at: 2018-01-16 23:46:08

End at: 2018-01-16 23:46:38

Below is generated by plot.py at 2018-01-17 04:26:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 186.68 Mbit/s

95th percentile per-packet one-way delay: 64.251 ms

Loss rate: 0.41%

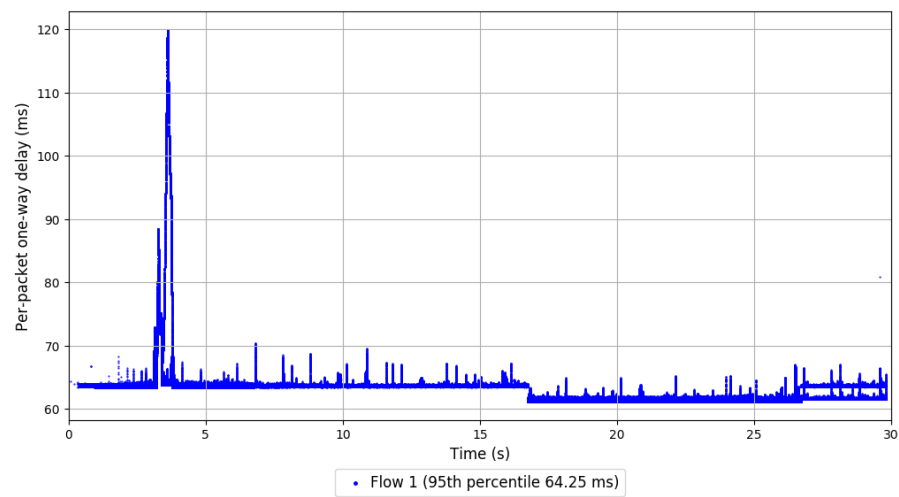
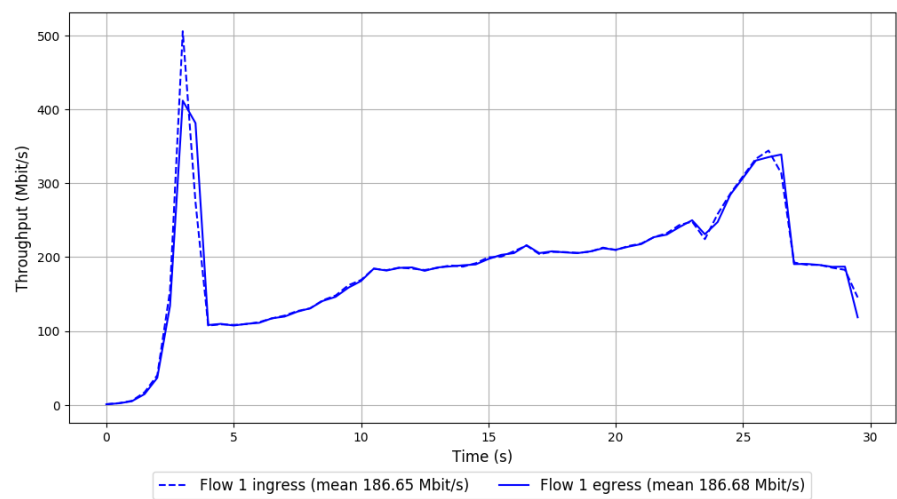
-- Flow 1:

Average throughput: 186.68 Mbit/s

95th percentile per-packet one-way delay: 64.251 ms

Loss rate: 0.41%

Run 7: Report of Vivace-loss — Data Link



Run 8: Statistics of Vivace-loss

Start at: 2018-01-17 00:00:31

End at: 2018-01-17 00:01:01

Below is generated by plot.py at 2018-01-17 04:26:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 125.81 Mbit/s

95th percentile per-packet one-way delay: 63.739 ms

Loss rate: 0.41%

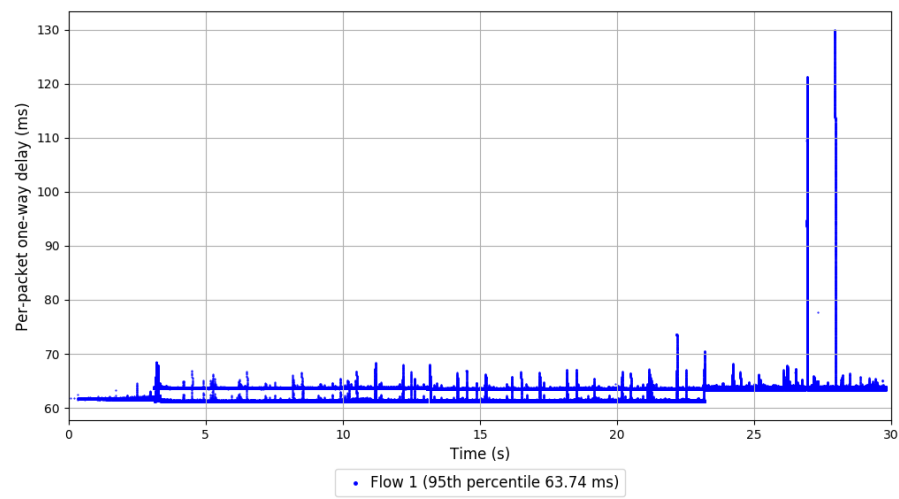
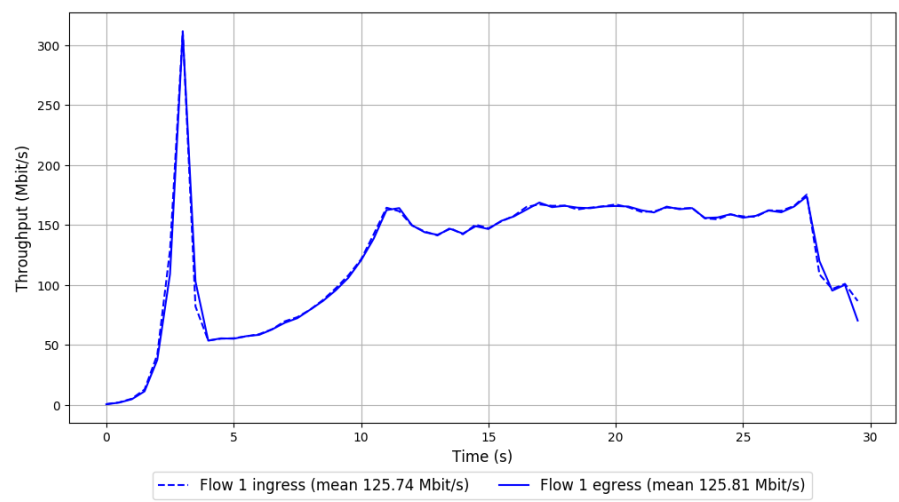
-- Flow 1:

Average throughput: 125.81 Mbit/s

95th percentile per-packet one-way delay: 63.739 ms

Loss rate: 0.41%

Run 8: Report of Vivace-loss — Data Link



Run 9: Statistics of Vivace-loss

Start at: 2018-01-17 00:14:51

End at: 2018-01-17 00:15:21

Below is generated by plot.py at 2018-01-17 04:28:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 260.62 Mbit/s

95th percentile per-packet one-way delay: 75.388 ms

Loss rate: 0.26%

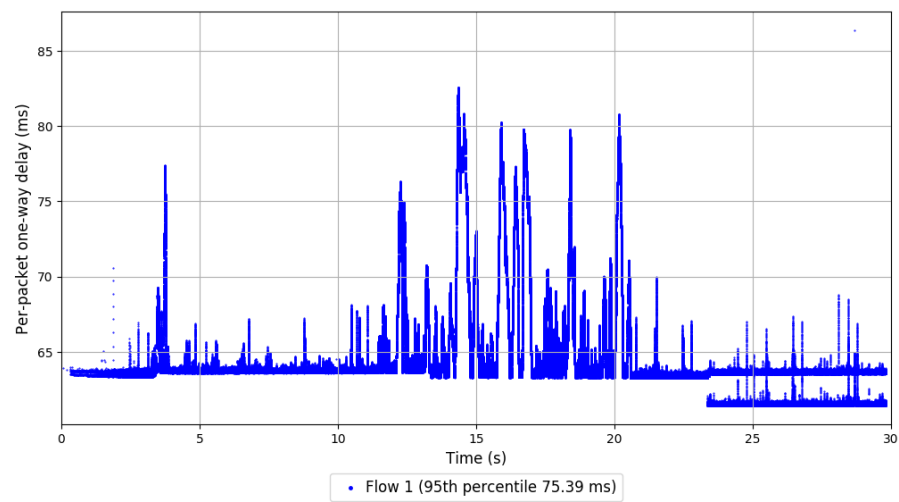
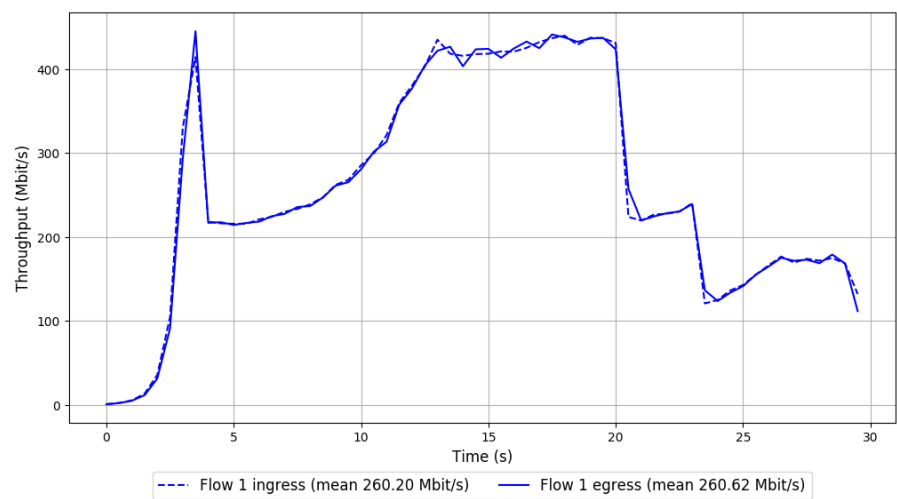
-- Flow 1:

Average throughput: 260.62 Mbit/s

95th percentile per-packet one-way delay: 75.388 ms

Loss rate: 0.26%

Run 9: Report of Vivace-loss — Data Link



Run 10: Statistics of Vivace-loss

Start at: 2018-01-17 00:29:07

End at: 2018-01-17 00:29:37

Below is generated by plot.py at 2018-01-17 04:28:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 203.64 Mbit/s

95th percentile per-packet one-way delay: 154.792 ms

Loss rate: 1.97%

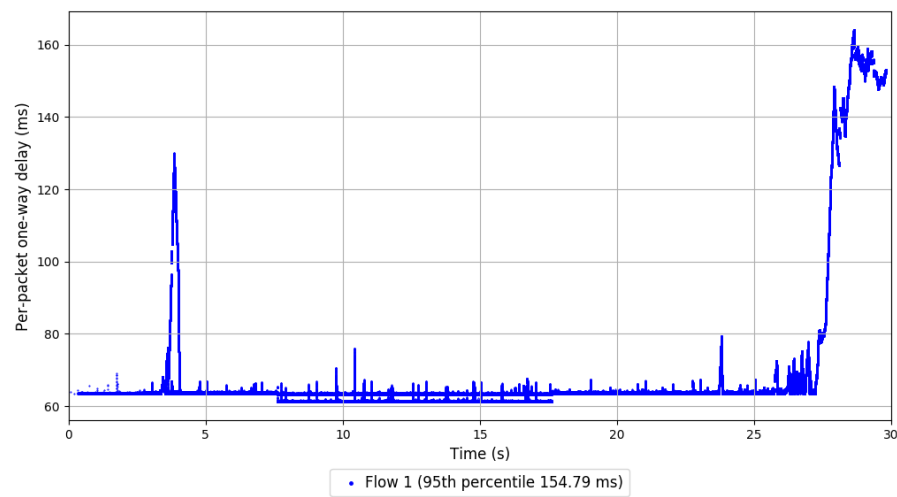
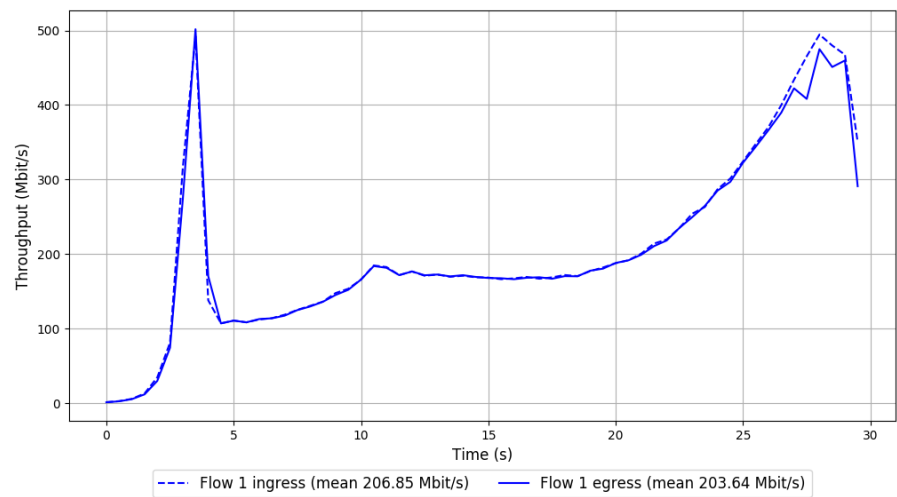
-- Flow 1:

Average throughput: 203.64 Mbit/s

95th percentile per-packet one-way delay: 154.792 ms

Loss rate: 1.97%

Run 10: Report of Vivace-loss — Data Link

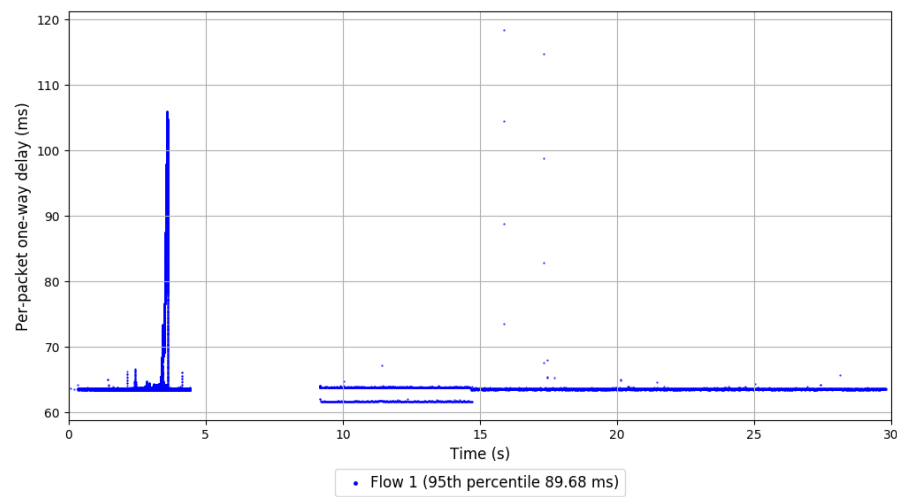
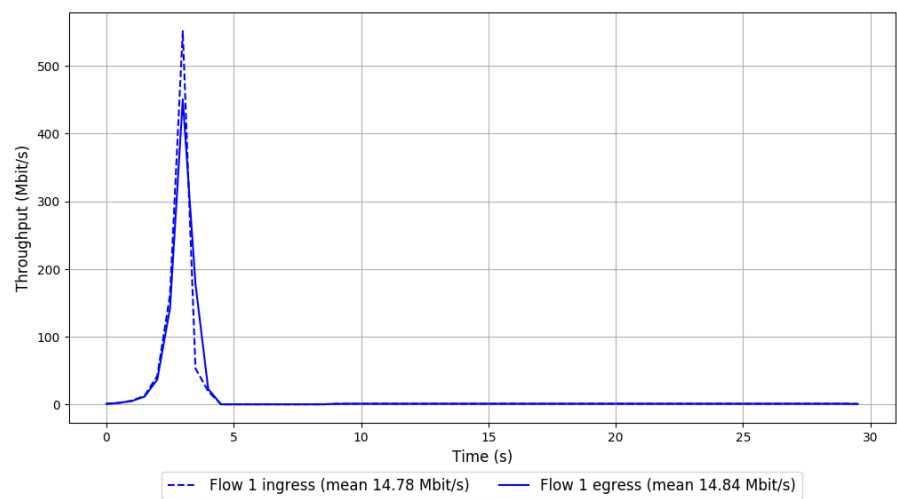


```
Run 1: Statistics of Vivace-LTE

Start at: 2018-01-16 22:26:30
End at: 2018-01-16 22:27:00

# Below is generated by plot.py at 2018-01-17 04:28:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 14.84 Mbit/s
95th percentile per-packet one-way delay: 89.679 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 14.84 Mbit/s
95th percentile per-packet one-way delay: 89.679 ms
Loss rate: 0.02%
```


Run 1: Report of Vivace-LTE — Data Link



Run 2: Statistics of Vivace-LTE

Start at: 2018-01-16 22:41:05

End at: 2018-01-16 22:41:35

Below is generated by plot.py at 2018-01-17 04:28:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.66 Mbit/s

95th percentile per-packet one-way delay: 63.892 ms

Loss rate: 0.06%

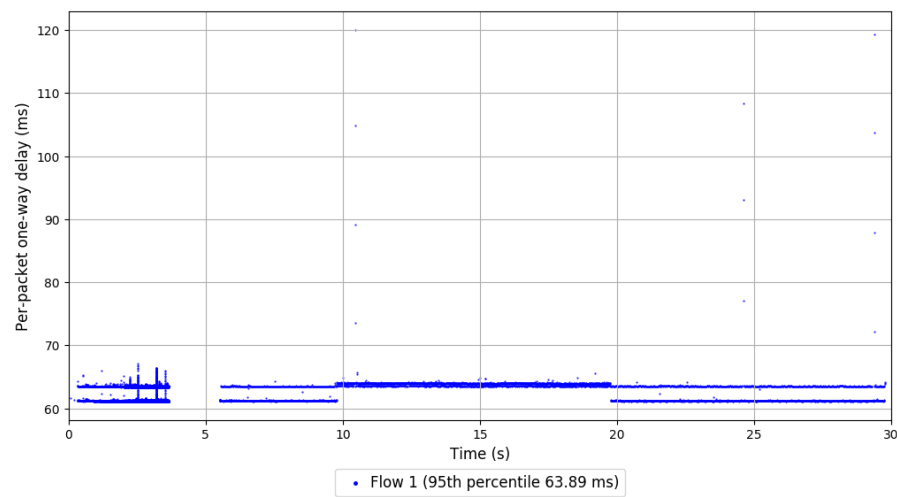
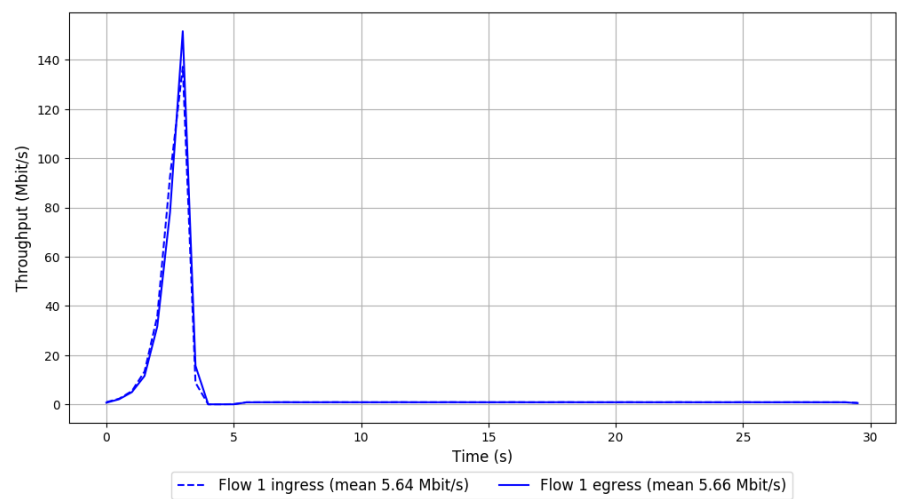
-- Flow 1:

Average throughput: 5.66 Mbit/s

95th percentile per-packet one-way delay: 63.892 ms

Loss rate: 0.06%

Run 2: Report of Vivace-LTE — Data Link



Run 3: Statistics of Vivace-LTE

Start at: 2018-01-16 22:55:15

End at: 2018-01-16 22:55:45

Below is generated by plot.py at 2018-01-17 04:28:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 233.09 Mbit/s

95th percentile per-packet one-way delay: 64.292 ms

Loss rate: 0.67%

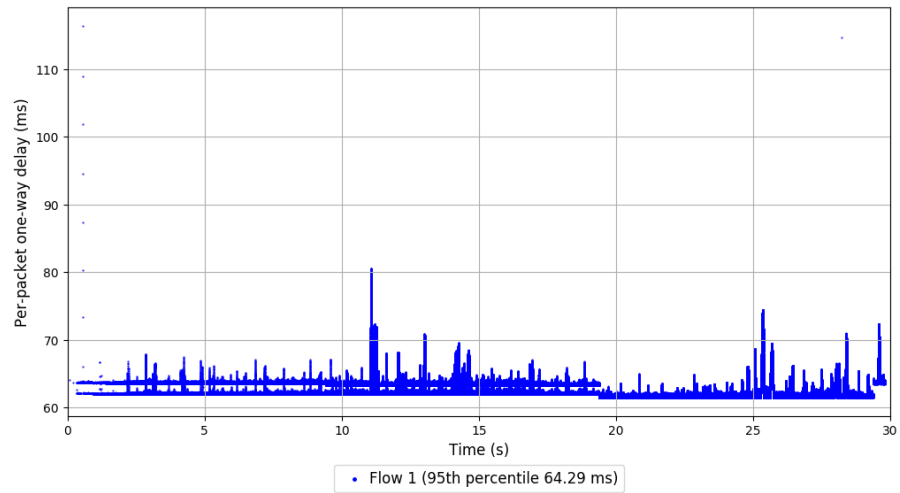
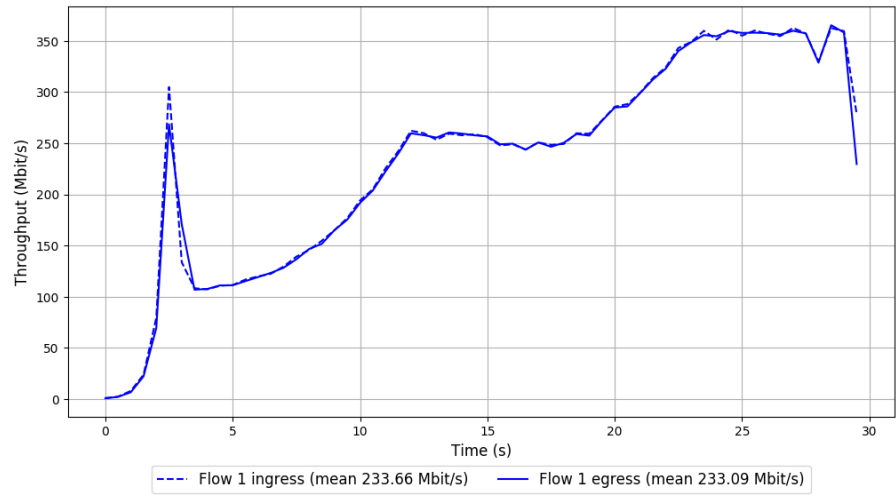
-- Flow 1:

Average throughput: 233.09 Mbit/s

95th percentile per-packet one-way delay: 64.292 ms

Loss rate: 0.67%

Run 3: Report of Vivace-LTE — Data Link



Run 4: Statistics of Vivace-LTE

Start at: 2018-01-16 23:09:42

End at: 2018-01-16 23:10:12

Below is generated by plot.py at 2018-01-17 04:28:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 14.37 Mbit/s

95th percentile per-packet one-way delay: 95.185 ms

Loss rate: 0.03%

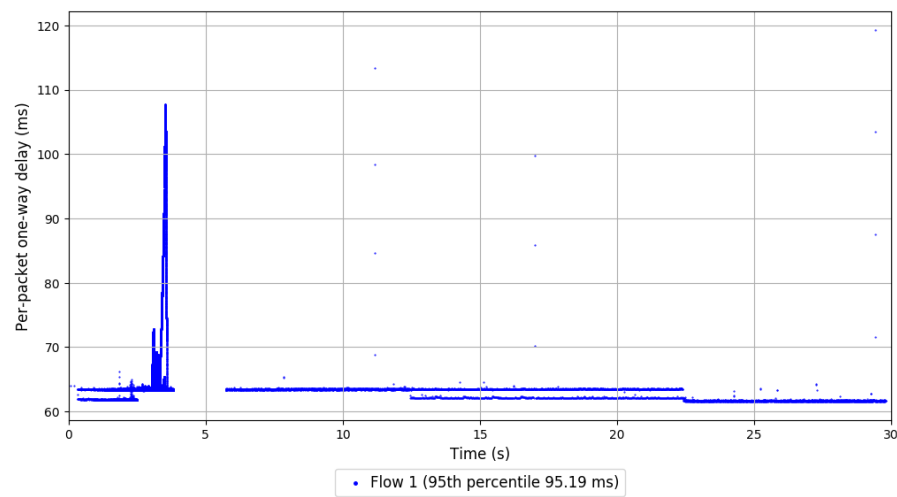
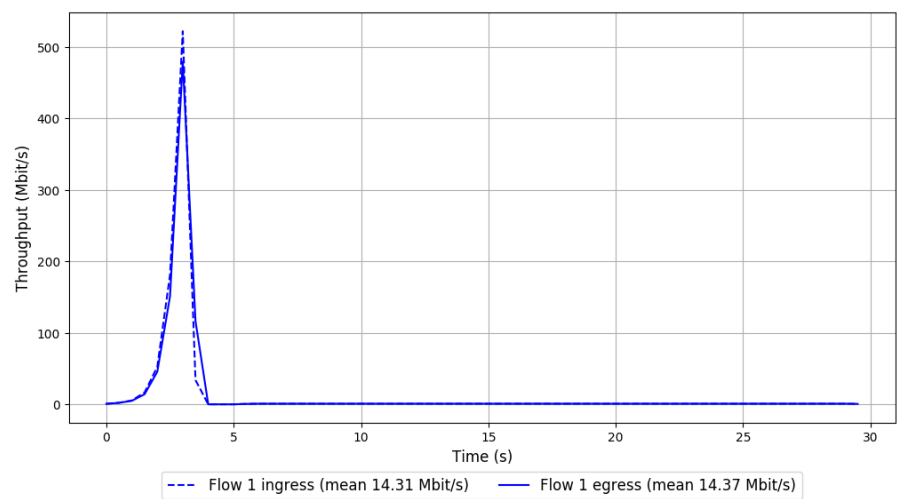
-- Flow 1:

Average throughput: 14.37 Mbit/s

95th percentile per-packet one-way delay: 95.185 ms

Loss rate: 0.03%

Run 4: Report of Vivace-LTE — Data Link



Run 5: Statistics of Vivace-LTE

Start at: 2018-01-16 23:23:56

End at: 2018-01-16 23:24:26

Below is generated by plot.py at 2018-01-17 04:28:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 14.38 Mbit/s

95th percentile per-packet one-way delay: 138.455 ms

Loss rate: 0.03%

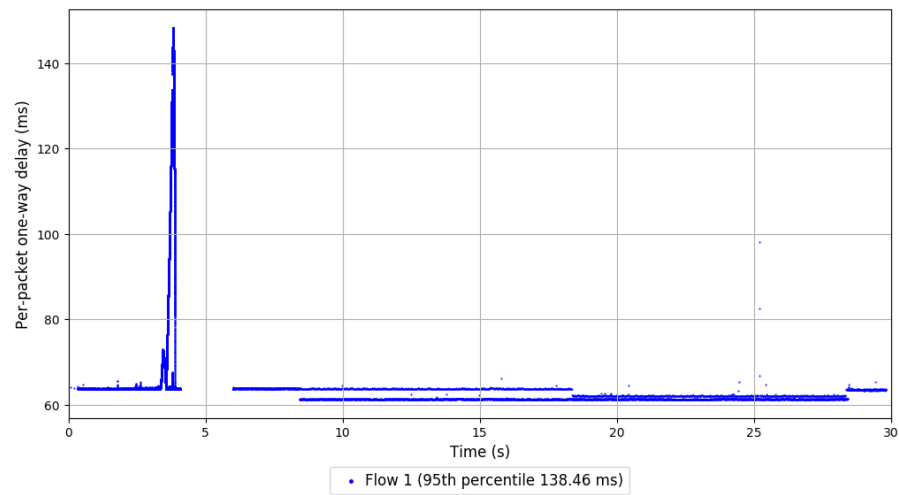
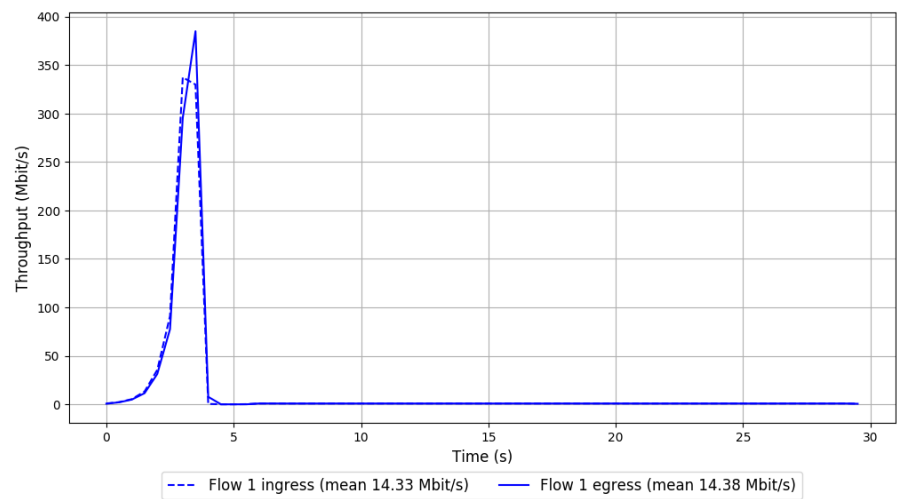
-- Flow 1:

Average throughput: 14.38 Mbit/s

95th percentile per-packet one-way delay: 138.455 ms

Loss rate: 0.03%

Run 5: Report of Vivace-LTE — Data Link



Run 6: Statistics of Vivace-LTE

Start at: 2018-01-16 23:38:15

End at: 2018-01-16 23:38:45

Below is generated by plot.py at 2018-01-17 04:28:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 14.70 Mbit/s

95th percentile per-packet one-way delay: 104.164 ms

Loss rate: 0.02%

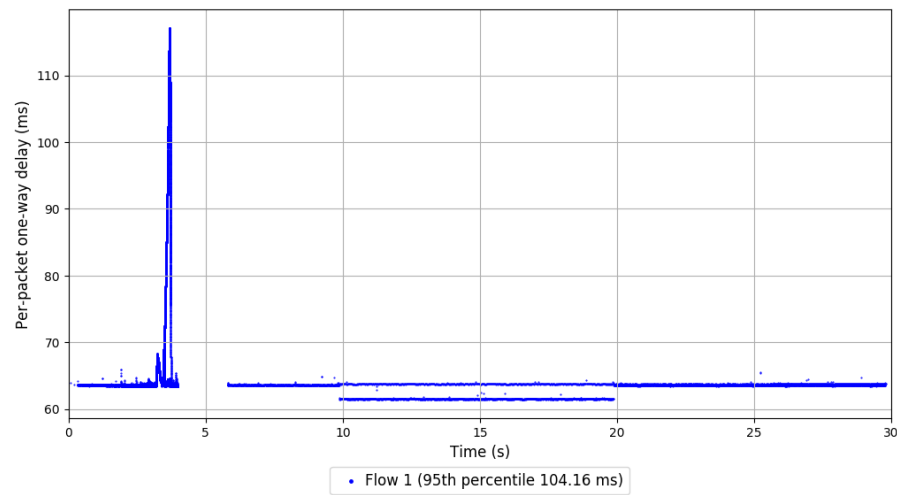
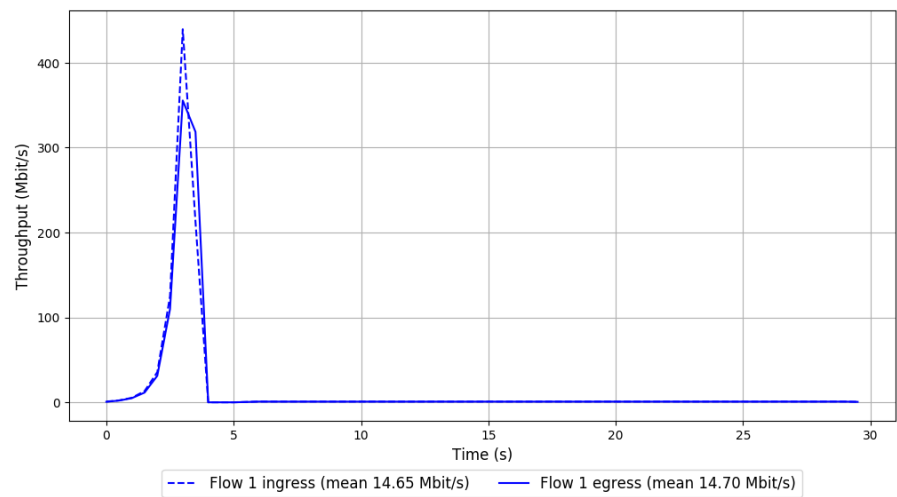
-- Flow 1:

Average throughput: 14.70 Mbit/s

95th percentile per-packet one-way delay: 104.164 ms

Loss rate: 0.02%

Run 6: Report of Vivace-LTE — Data Link



Run 7: Statistics of Vivace-LTE

Start at: 2018-01-16 23:52:16

End at: 2018-01-16 23:52:46

Below is generated by plot.py at 2018-01-17 04:28:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 198.12 Mbit/s

95th percentile per-packet one-way delay: 90.261 ms

Loss rate: 0.84%

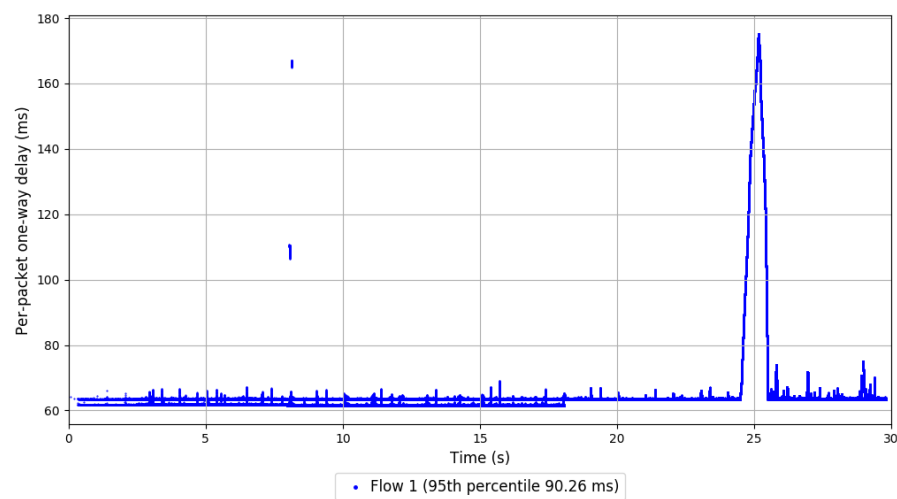
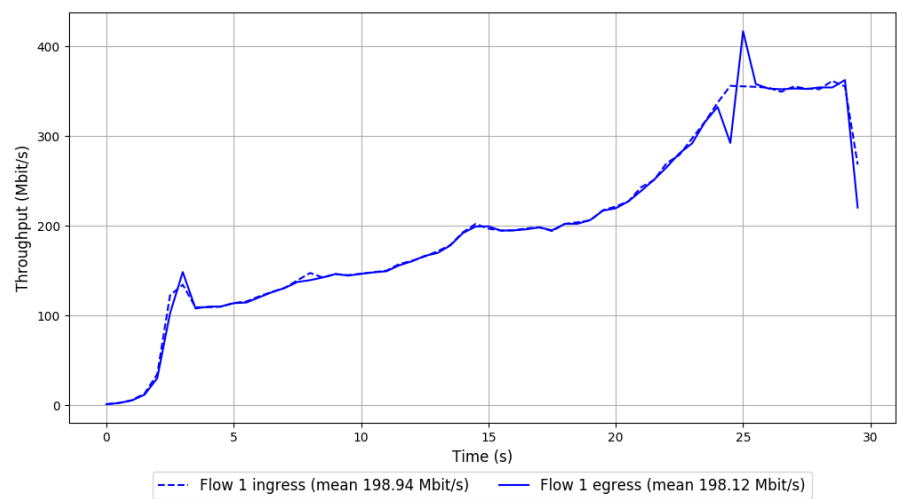
-- Flow 1:

Average throughput: 198.12 Mbit/s

95th percentile per-packet one-way delay: 90.261 ms

Loss rate: 0.84%

Run 7: Report of Vivace-LTE — Data Link



Run 8: Statistics of Vivace-LTE

Start at: 2018-01-17 00:06:30

End at: 2018-01-17 00:07:00

Below is generated by plot.py at 2018-01-17 04:28:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 160.39 Mbit/s

95th percentile per-packet one-way delay: 63.771 ms

Loss rate: 0.93%

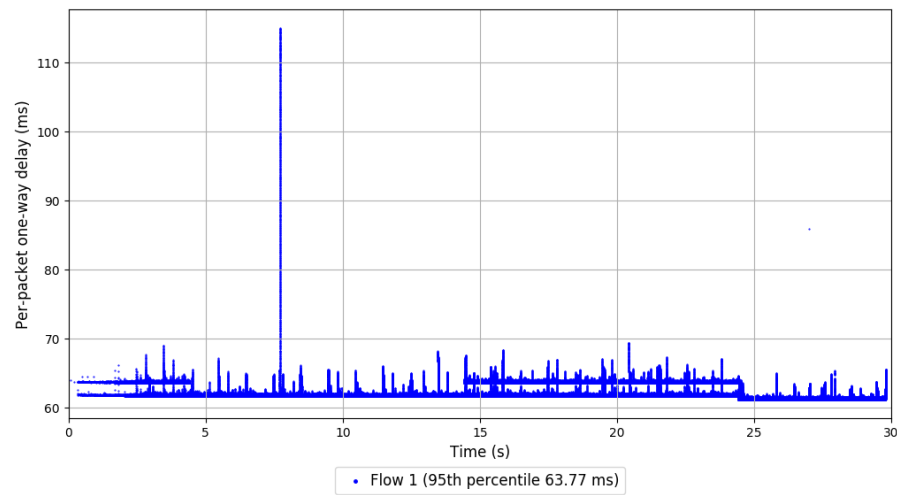
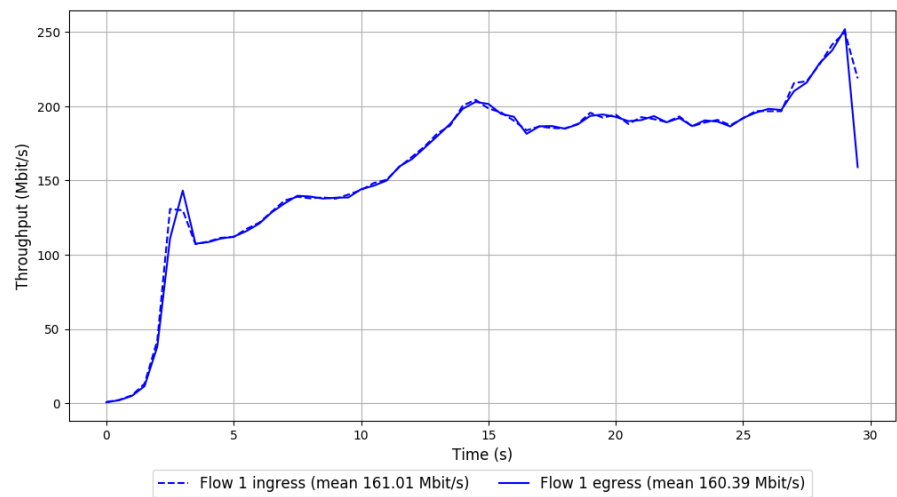
-- Flow 1:

Average throughput: 160.39 Mbit/s

95th percentile per-packet one-way delay: 63.771 ms

Loss rate: 0.93%

Run 8: Report of Vivace-LTE — Data Link



Run 9: Statistics of Vivace-LTE

Start at: 2018-01-17 00:21:05

End at: 2018-01-17 00:21:35

Below is generated by plot.py at 2018-01-17 04:28:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 14.40 Mbit/s

95th percentile per-packet one-way delay: 131.316 ms

Loss rate: 0.06%

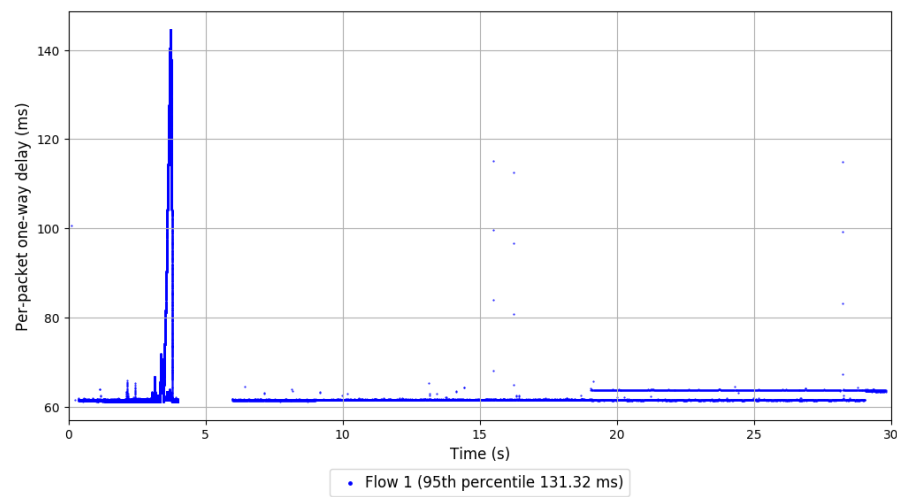
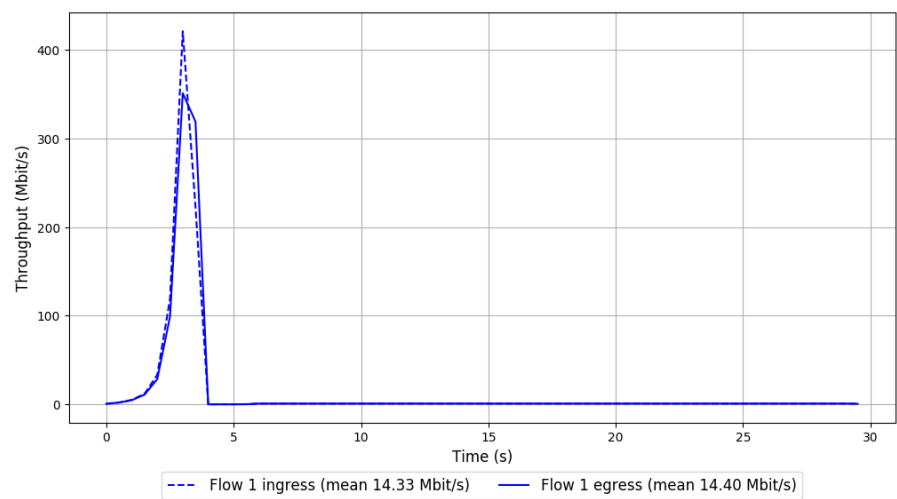
-- Flow 1:

Average throughput: 14.40 Mbit/s

95th percentile per-packet one-way delay: 131.316 ms

Loss rate: 0.06%

Run 9: Report of Vivace-LTE — Data Link



```
Run 10: Statistics of Vivace-LTE

Start at: 2018-01-17 00:35:27
End at: 2018-01-17 00:35:57

# Below is generated by plot.py at 2018-01-17 04:28:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 5.34 Mbit/s
95th percentile per-packet one-way delay: 63.650 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 5.34 Mbit/s
95th percentile per-packet one-way delay: 63.650 ms
Loss rate: 0.07%
```

Run 10: Report of Vivace-LTE — Data Link

