

Pantheon Report

Generated at 2018-01-09 06:26:41 (UTC).

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

Repeated the test of 14 congestion control schemes 10 times.

Each test lasted for 30 seconds running 1 flow.

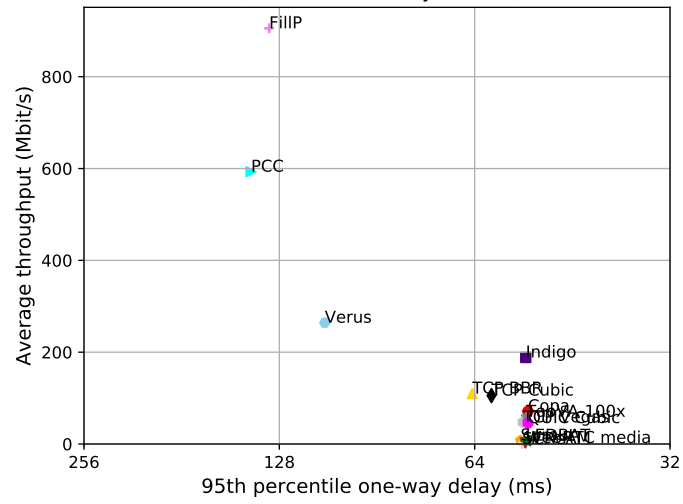
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

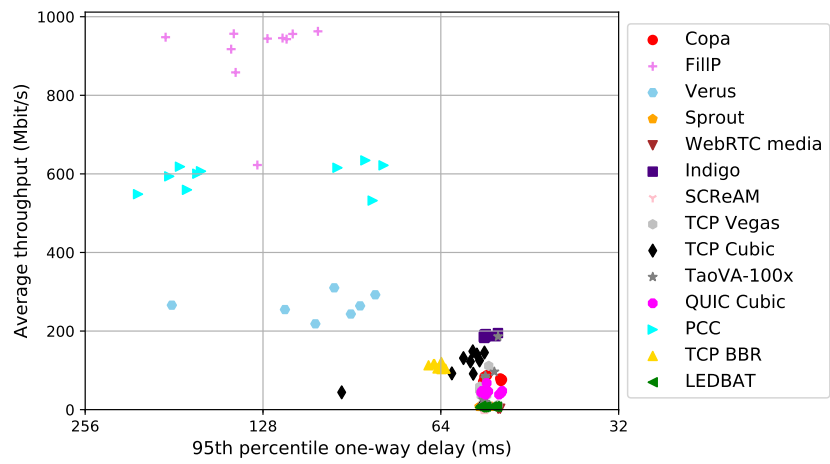
Git summary:

```
branch: master @ 56d1792c316a5efca3f2d21342905405fedffb48
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/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-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eaaeb30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
  M src/examples/cellsim.cc
  M src/examples/sproutbt2.cc
  M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/webrtc @ a488197ddd041ace68a42849b2540ad834825f42
```

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



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



scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	10	109.85	64.54	0.30
TCP Cubic	10	105.46	60.30	0.18
LEDBAT	10	7.23	53.42	0.49
PCC	10	593.08	141.52	1.12
QUIC Cubic	10	45.61	52.97	0.01
SCReAM	8	0.21	54.08	0.00
WebRTC media	10	2.28	53.47	0.00
Sprout	10	7.73	54.39	0.26
TaoVA-100x	9	59.31	53.32	0.00
TCP Vegas	8	47.17	53.96	0.53
Verus	7	264.12	108.94	1.11
Copa	10	71.35	52.98	0.00
FillP	10	905.46	132.72	3.00
Indigo	10	188.51	53.39	0.06

Run 1: Statistics of TCP BBR

Start at: 2018-01-09 02:47:01

End at: 2018-01-09 02:47:31

Below is generated by plot.py at 2018-01-09 05:36:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 116.02 Mbit/s

95th percentile per-packet one-way delay: 65.819 ms

Loss rate: 0.23%

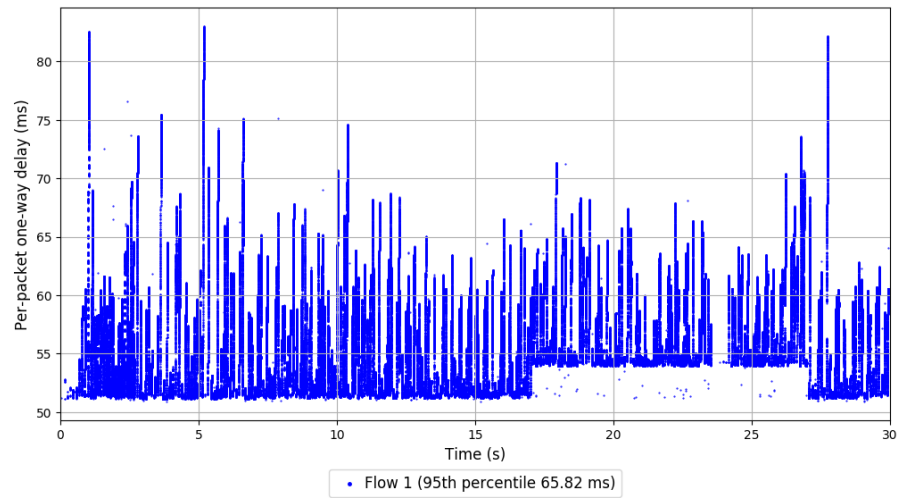
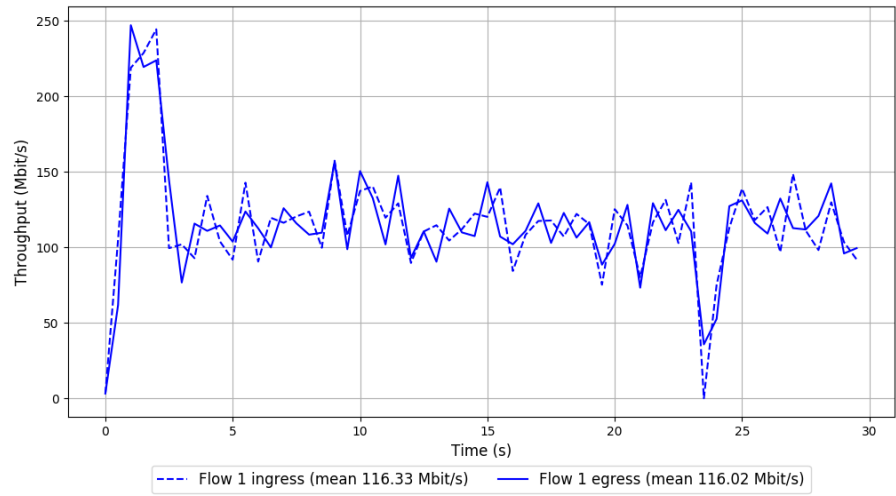
-- Flow 1:

Average throughput: 116.02 Mbit/s

95th percentile per-packet one-way delay: 65.819 ms

Loss rate: 0.23%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-01-09 02:58:24

End at: 2018-01-09 02:58:54

Below is generated by plot.py at 2018-01-09 05:36:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 107.42 Mbit/s

95th percentile per-packet one-way delay: 64.086 ms

Loss rate: 0.48%

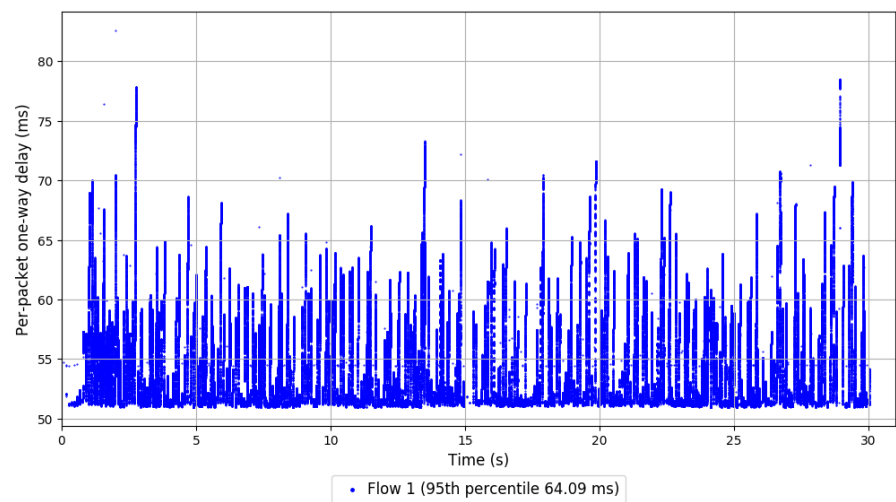
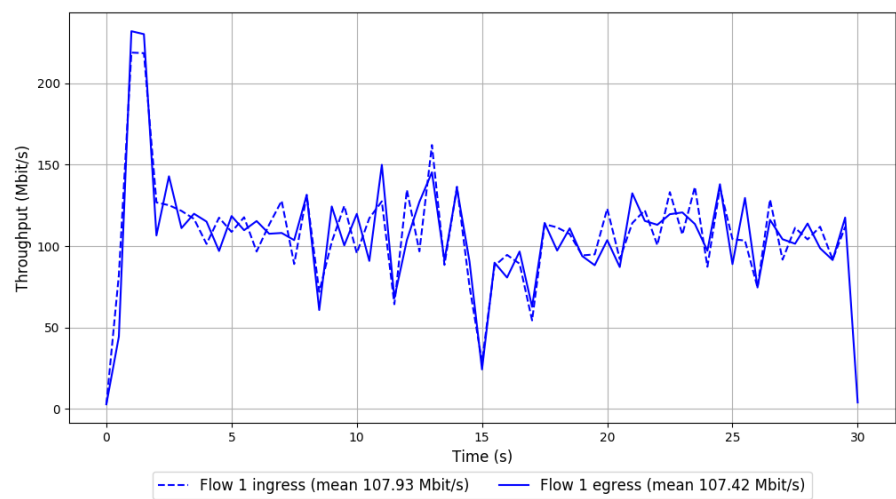
-- Flow 1:

Average throughput: 107.42 Mbit/s

95th percentile per-packet one-way delay: 64.086 ms

Loss rate: 0.48%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-01-09 03:09:48

End at: 2018-01-09 03:10:18

Below is generated by plot.py at 2018-01-09 05:36:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 112.94 Mbit/s

95th percentile per-packet one-way delay: 67.140 ms

Loss rate: 0.01%

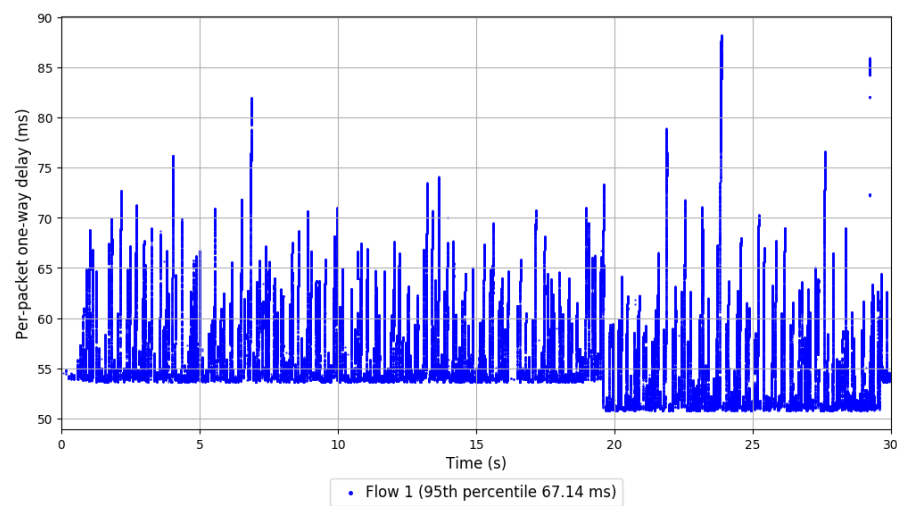
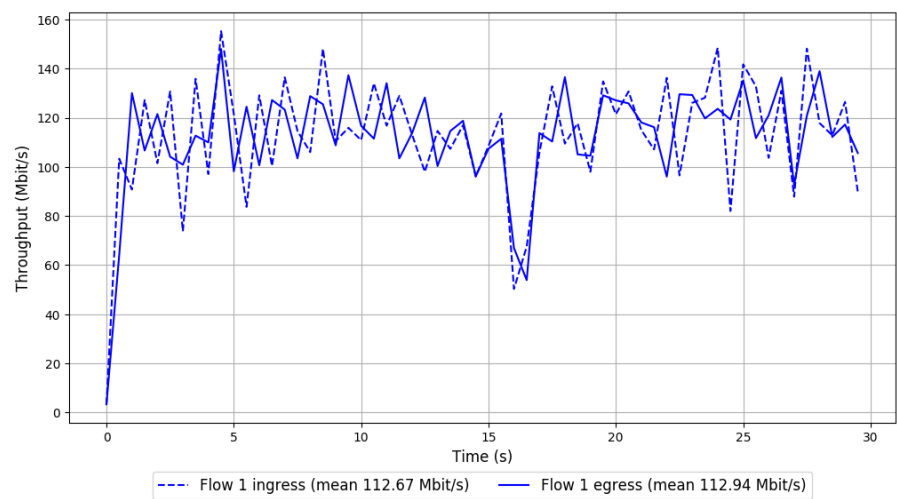
-- Flow 1:

Average throughput: 112.94 Mbit/s

95th percentile per-packet one-way delay: 67.140 ms

Loss rate: 0.01%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-01-09 03:21:09

End at: 2018-01-09 03:21:39

Below is generated by plot.py at 2018-01-09 05:36:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 104.42 Mbit/s

95th percentile per-packet one-way delay: 63.451 ms

Loss rate: 0.21%

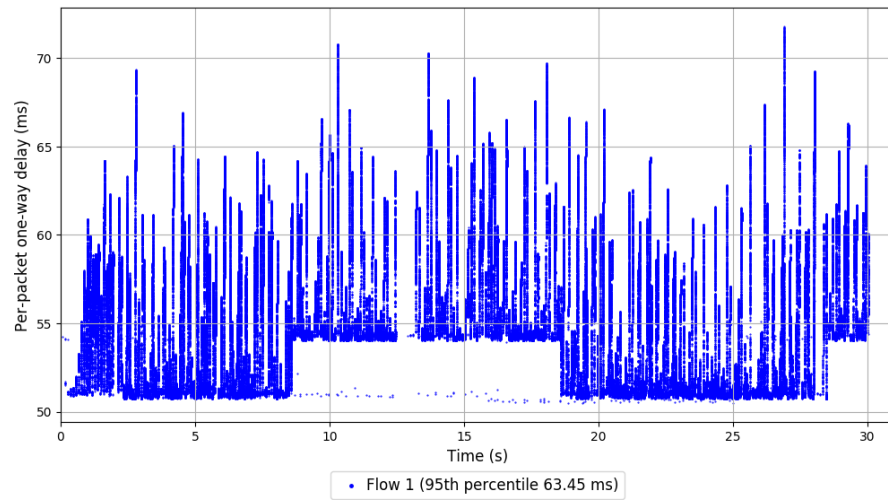
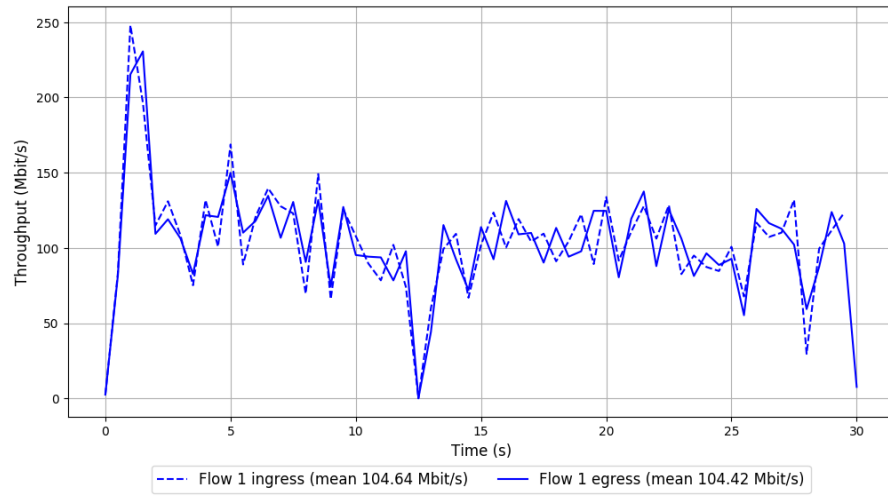
-- Flow 1:

Average throughput: 104.42 Mbit/s

95th percentile per-packet one-way delay: 63.451 ms

Loss rate: 0.21%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-01-09 03:32:23

End at: 2018-01-09 03:32:53

Below is generated by plot.py at 2018-01-09 05:36:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 107.95 Mbit/s

95th percentile per-packet one-way delay: 63.938 ms

Loss rate: 0.03%

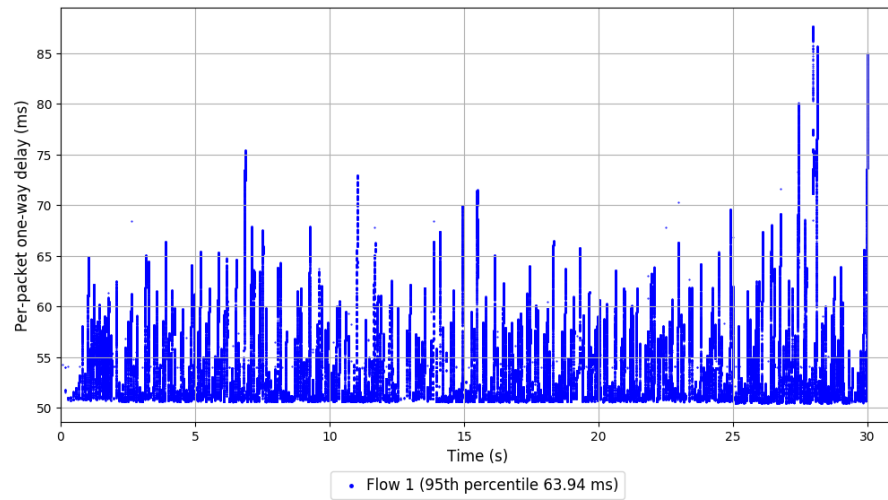
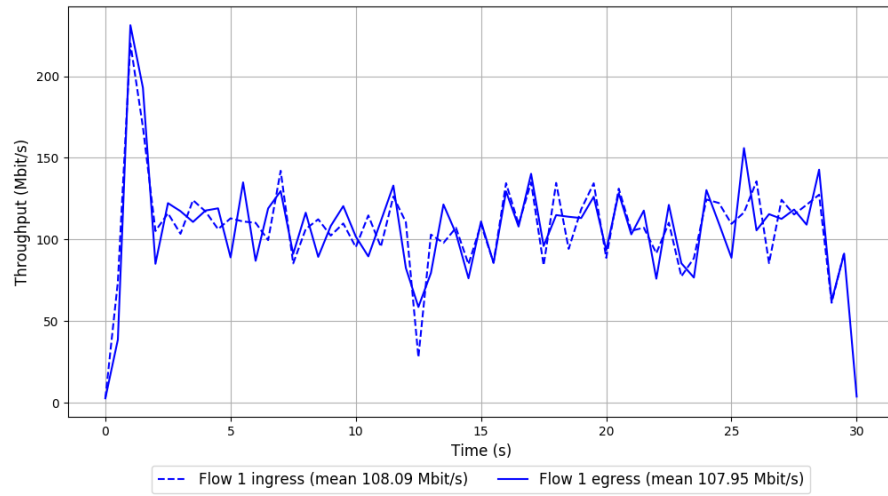
-- Flow 1:

Average throughput: 107.95 Mbit/s

95th percentile per-packet one-way delay: 63.938 ms

Loss rate: 0.03%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-01-09 03:43:35

End at: 2018-01-09 03:44:05

Below is generated by plot.py at 2018-01-09 05:36:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 104.91 Mbit/s

95th percentile per-packet one-way delay: 64.836 ms

Loss rate: 0.01%

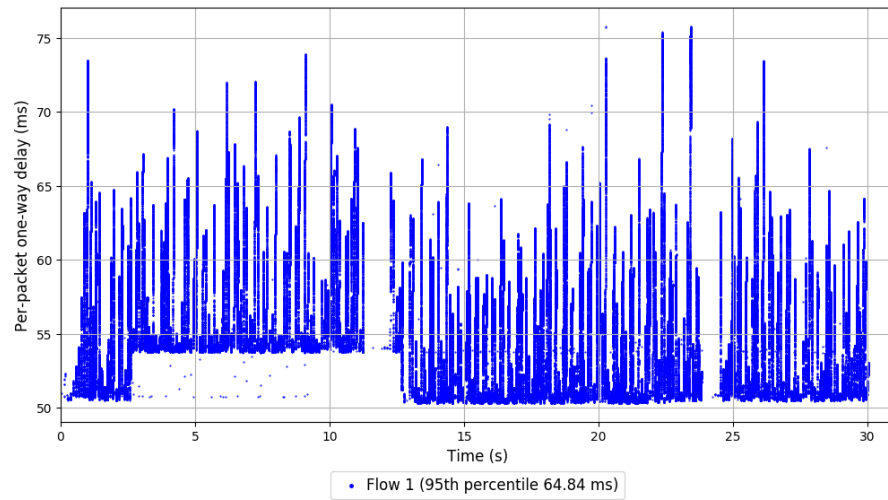
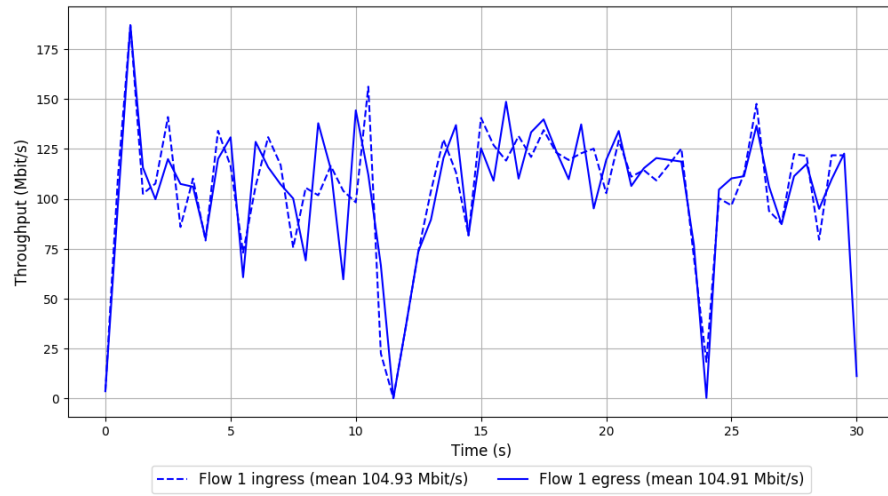
-- Flow 1:

Average throughput: 104.91 Mbit/s

95th percentile per-packet one-way delay: 64.836 ms

Loss rate: 0.01%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-01-09 03:54:49

End at: 2018-01-09 03:55:19

Below is generated by plot.py at 2018-01-09 05:36:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 104.19 Mbit/s

95th percentile per-packet one-way delay: 62.835 ms

Loss rate: 0.66%

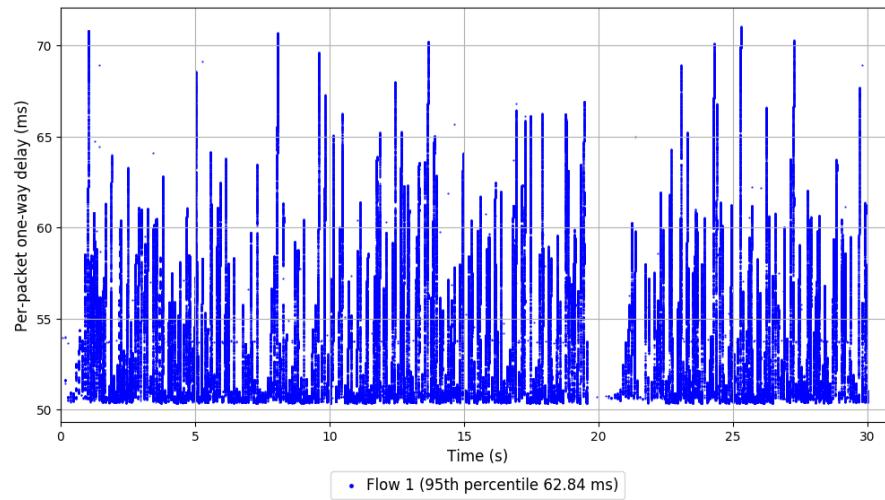
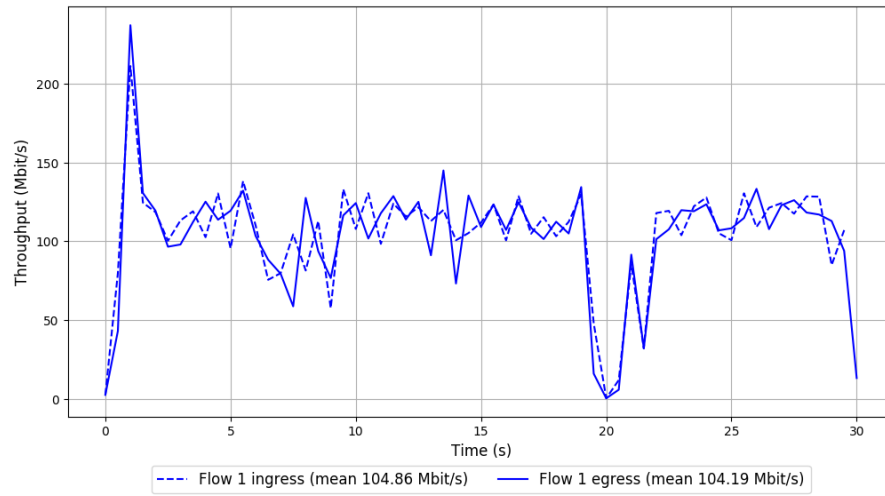
-- Flow 1:

Average throughput: 104.19 Mbit/s

95th percentile per-packet one-way delay: 62.835 ms

Loss rate: 0.66%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-01-09 04:06:01

End at: 2018-01-09 04:06:31

Below is generated by plot.py at 2018-01-09 05:36:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 103.23 Mbit/s

95th percentile per-packet one-way delay: 63.833 ms

Loss rate: 0.16%

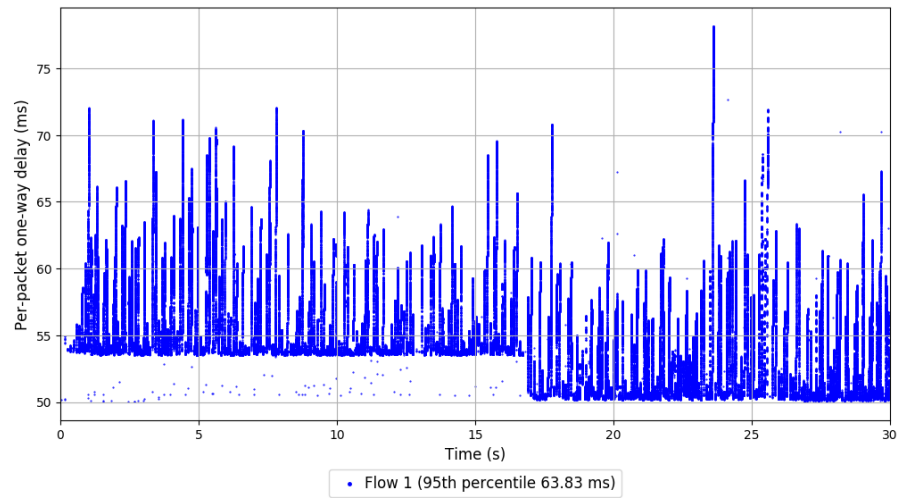
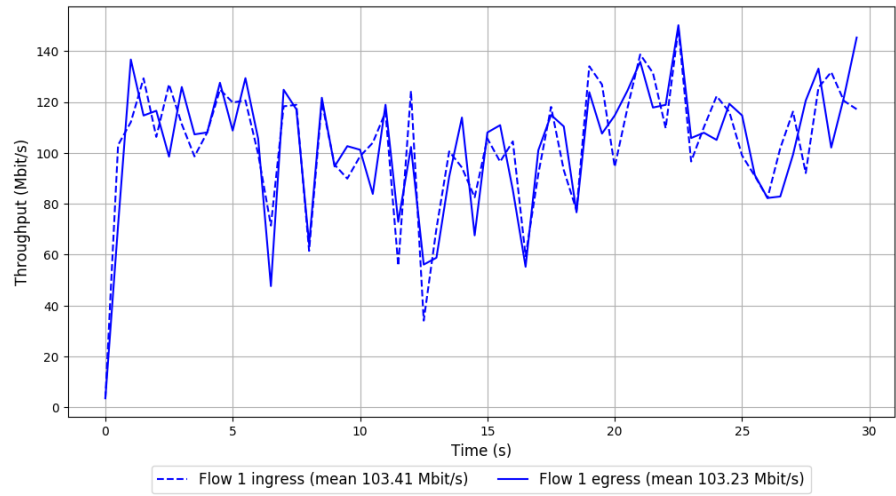
-- Flow 1:

Average throughput: 103.23 Mbit/s

95th percentile per-packet one-way delay: 63.833 ms

Loss rate: 0.16%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-01-09 04:17:18

End at: 2018-01-09 04:17:48

Below is generated by plot.py at 2018-01-09 05:38:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 116.05 Mbit/s

95th percentile per-packet one-way delay: 65.615 ms

Loss rate: 0.87%

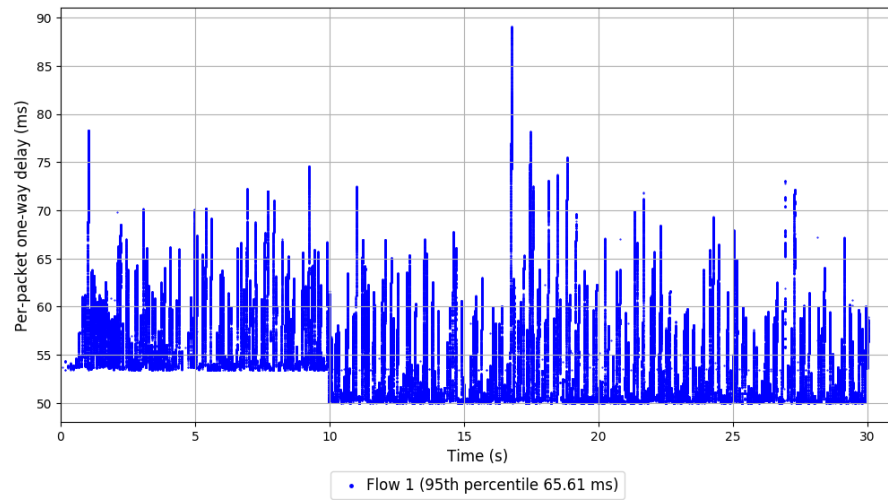
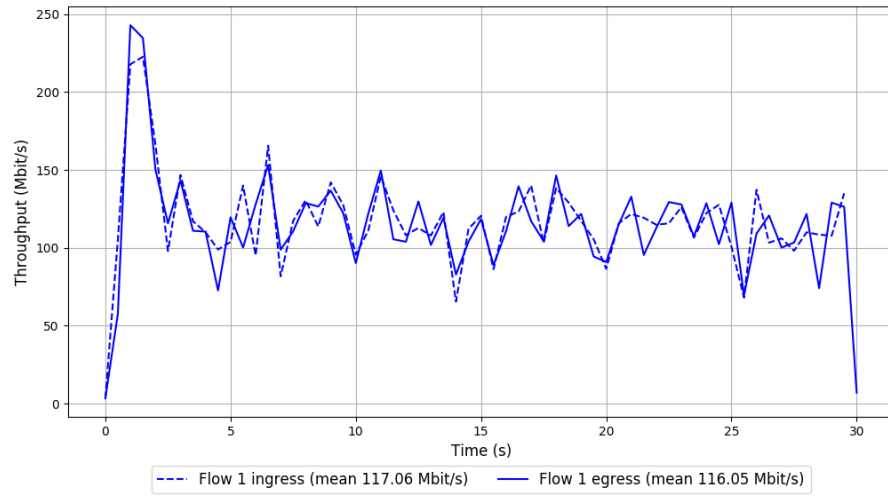
-- Flow 1:

Average throughput: 116.05 Mbit/s

95th percentile per-packet one-way delay: 65.615 ms

Loss rate: 0.87%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-01-09 04:28:59

End at: 2018-01-09 04:29:29

Below is generated by plot.py at 2018-01-09 05:38:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 121.38 Mbit/s

95th percentile per-packet one-way delay: 63.872 ms

Loss rate: 0.32%

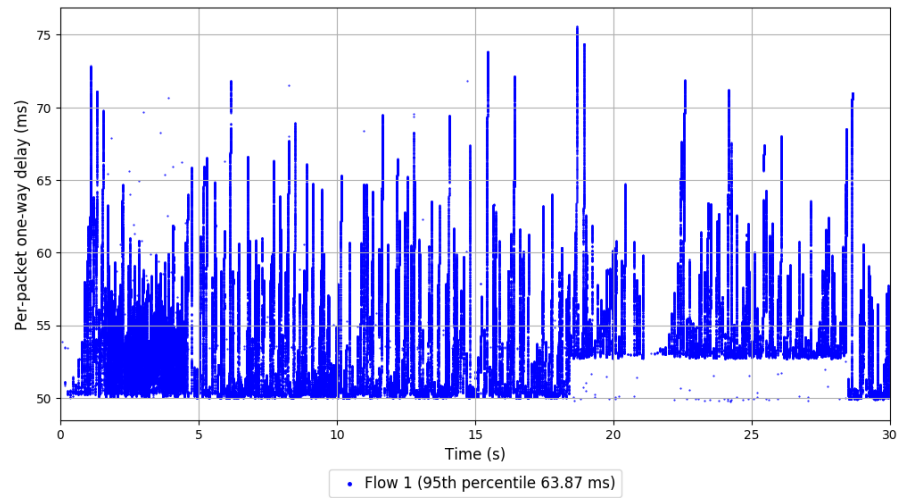
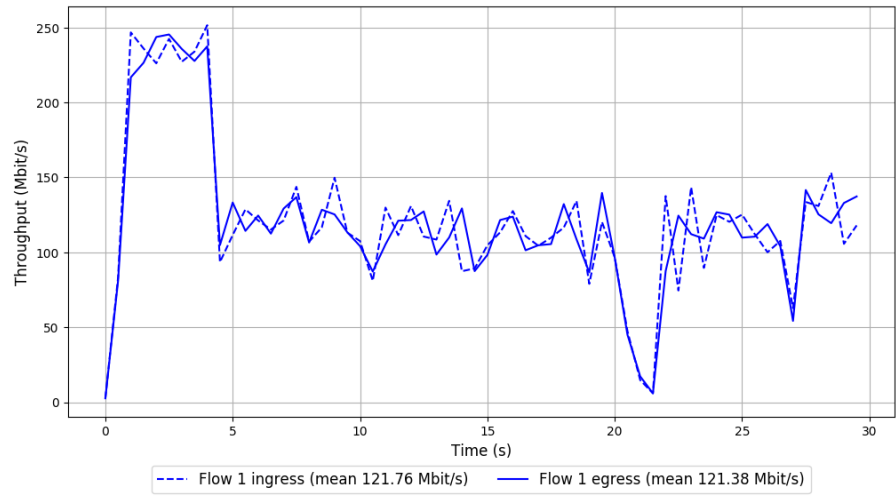
-- Flow 1:

Average throughput: 121.38 Mbit/s

95th percentile per-packet one-way delay: 63.872 ms

Loss rate: 0.32%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-01-09 02:50:15

End at: 2018-01-09 02:50:45

Below is generated by plot.py at 2018-01-09 05:39:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 148.49 Mbit/s

95th percentile per-packet one-way delay: 56.499 ms

Loss rate: 0.00%

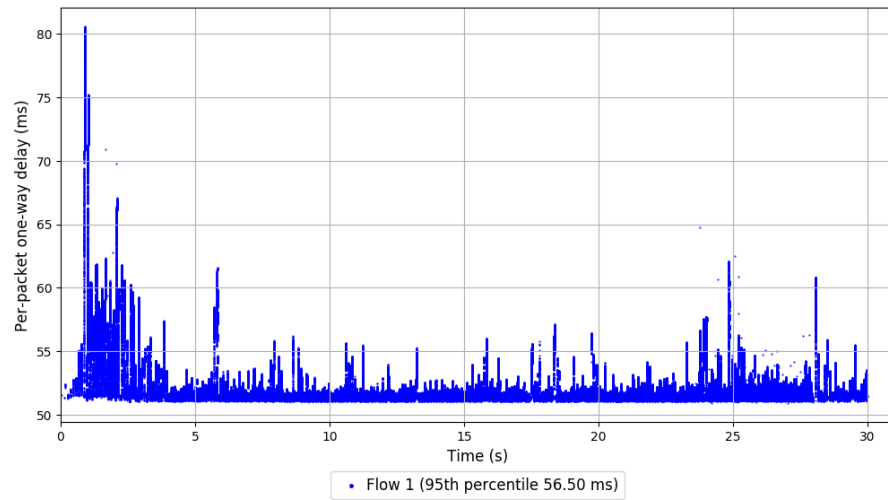
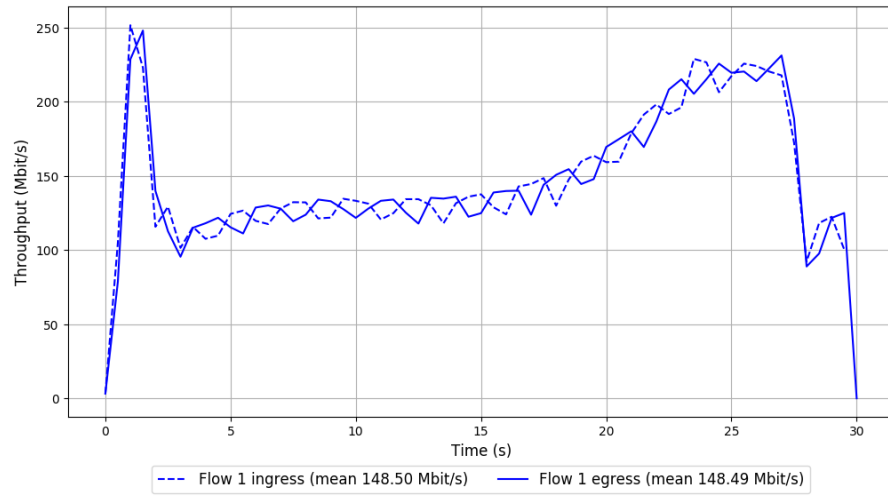
-- Flow 1:

Average throughput: 148.49 Mbit/s

95th percentile per-packet one-way delay: 56.499 ms

Loss rate: 0.00%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-01-09 03:01:39

End at: 2018-01-09 03:02:09

Below is generated by plot.py at 2018-01-09 05:39:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 131.17 Mbit/s

95th percentile per-packet one-way delay: 58.595 ms

Loss rate: 0.01%

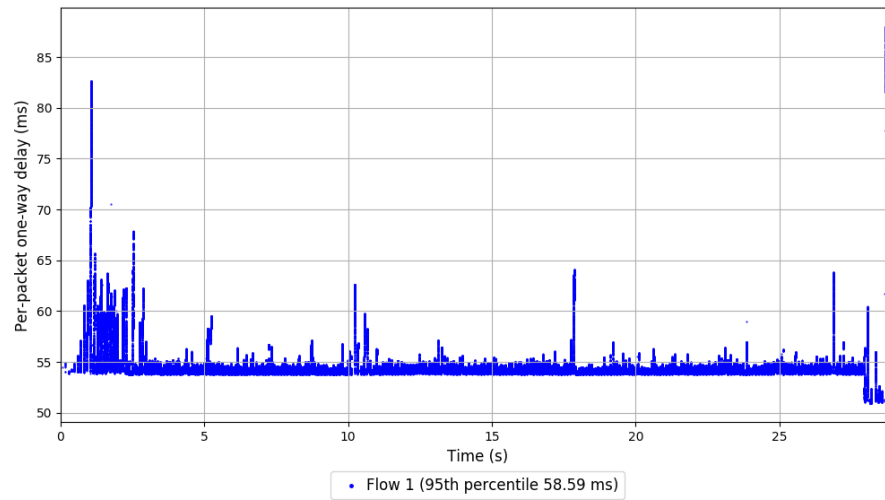
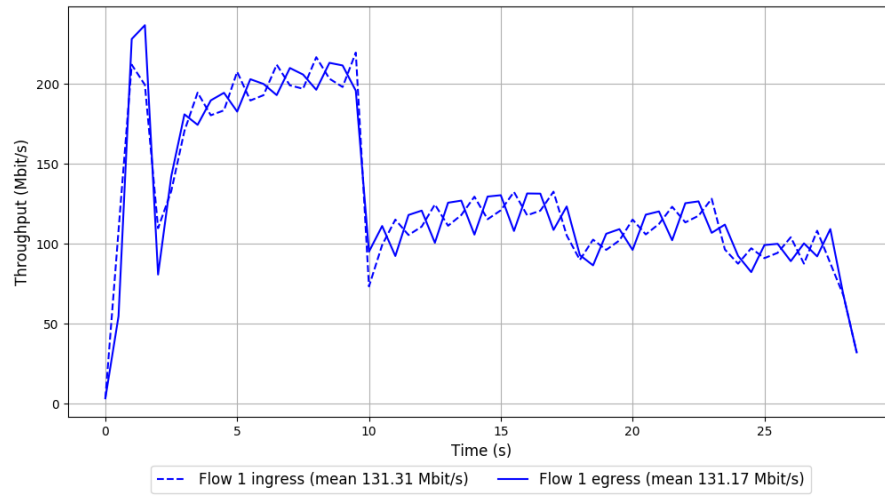
-- Flow 1:

Average throughput: 131.17 Mbit/s

95th percentile per-packet one-way delay: 58.595 ms

Loss rate: 0.01%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-01-09 03:13:02

End at: 2018-01-09 03:13:32

Below is generated by plot.py at 2018-01-09 05:39:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.27 Mbit/s

95th percentile per-packet one-way delay: 61.312 ms

Loss rate: 0.04%

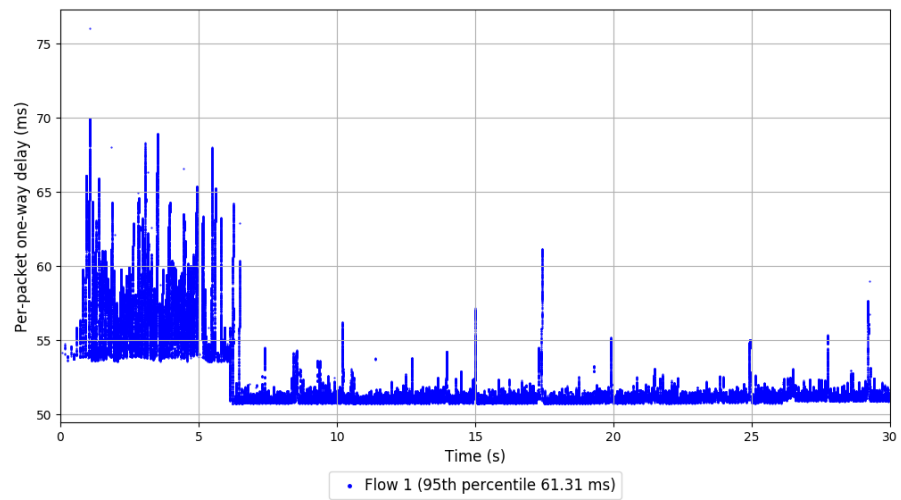
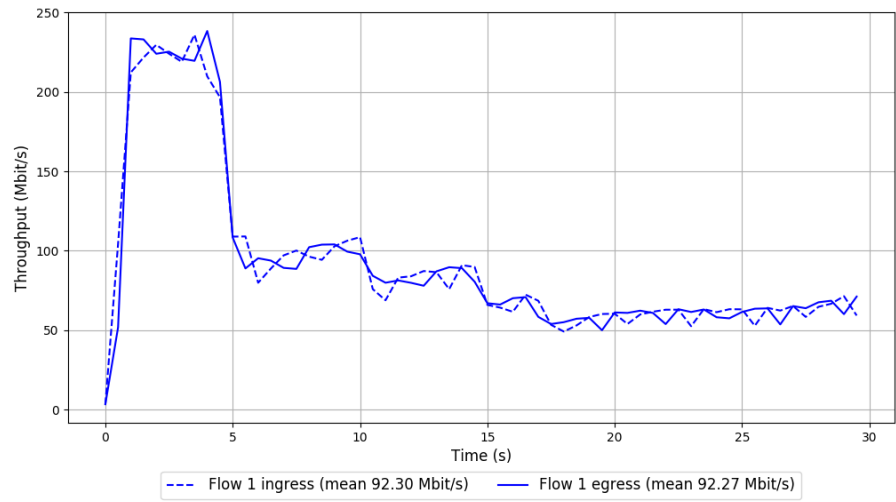
-- Flow 1:

Average throughput: 92.27 Mbit/s

95th percentile per-packet one-way delay: 61.312 ms

Loss rate: 0.04%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-01-09 03:24:24

End at: 2018-01-09 03:24:54

Below is generated by plot.py at 2018-01-09 05:39:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 122.48 Mbit/s

95th percentile per-packet one-way delay: 57.021 ms

Loss rate: 0.00%

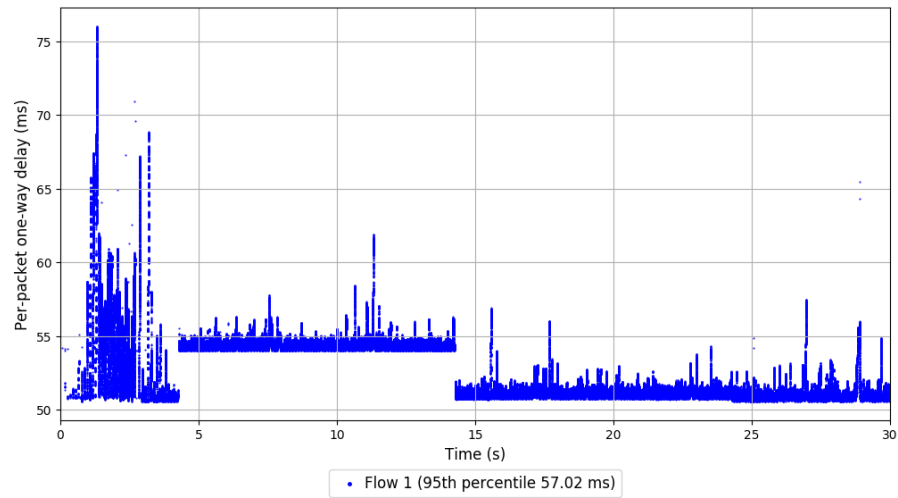
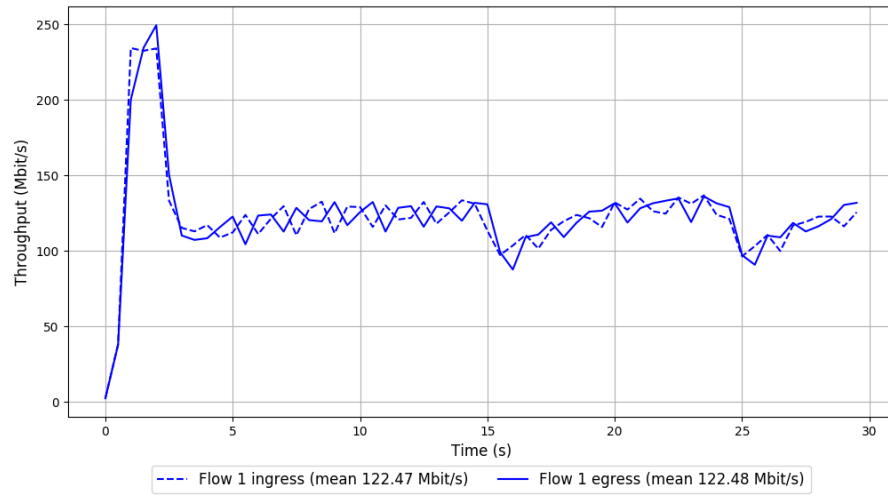
-- Flow 1:

Average throughput: 122.48 Mbit/s

95th percentile per-packet one-way delay: 57.021 ms

Loss rate: 0.00%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-01-09 03:35:36

End at: 2018-01-09 03:36:07

Below is generated by plot.py at 2018-01-09 05:39:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.30 Mbit/s

95th percentile per-packet one-way delay: 56.397 ms

Loss rate: 0.03%

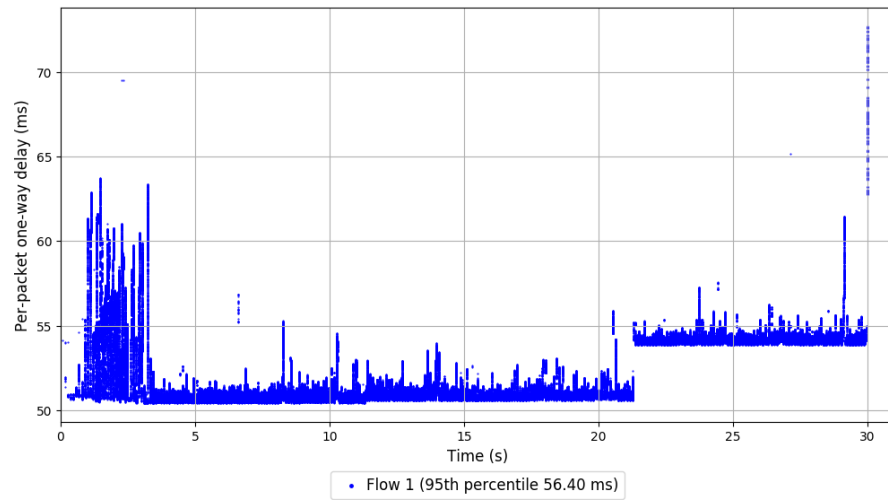
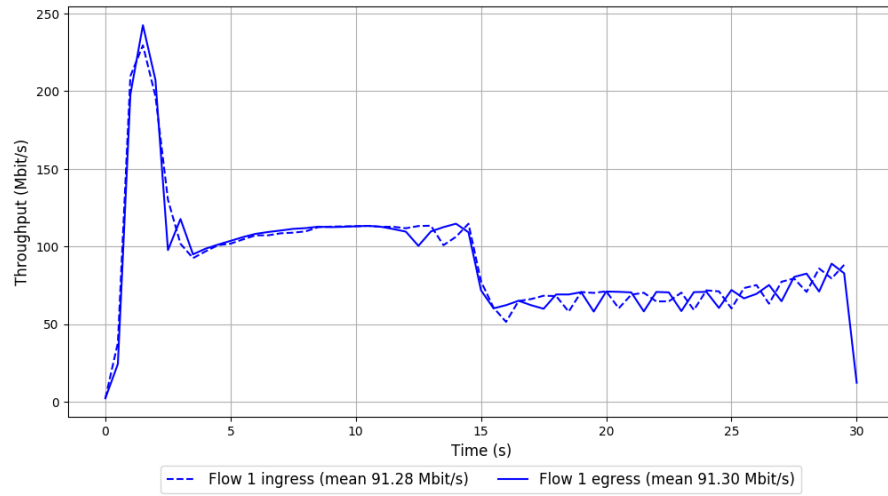
-- Flow 1:

Average throughput: 91.30 Mbit/s

95th percentile per-packet one-way delay: 56.397 ms

Loss rate: 0.03%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-01-09 03:46:47

End at: 2018-01-09 03:47:17

Below is generated by plot.py at 2018-01-09 05:39:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 140.27 Mbit/s

95th percentile per-packet one-way delay: 55.612 ms

Loss rate: 0.07%

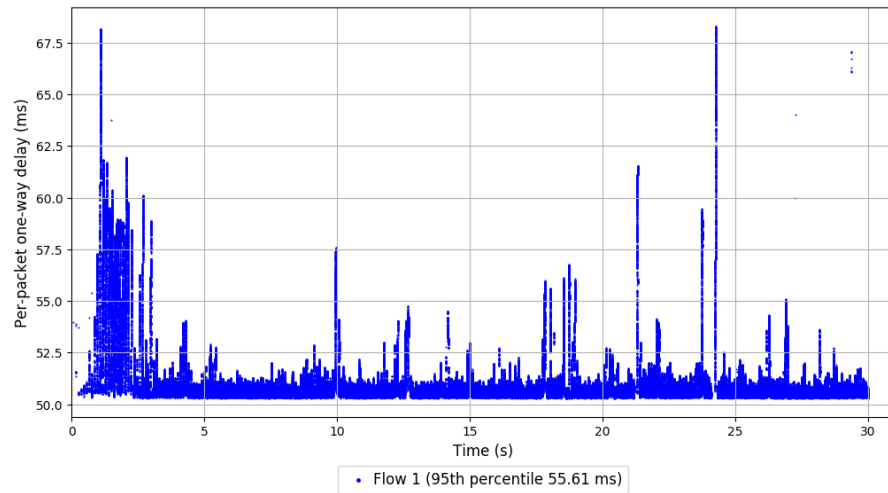
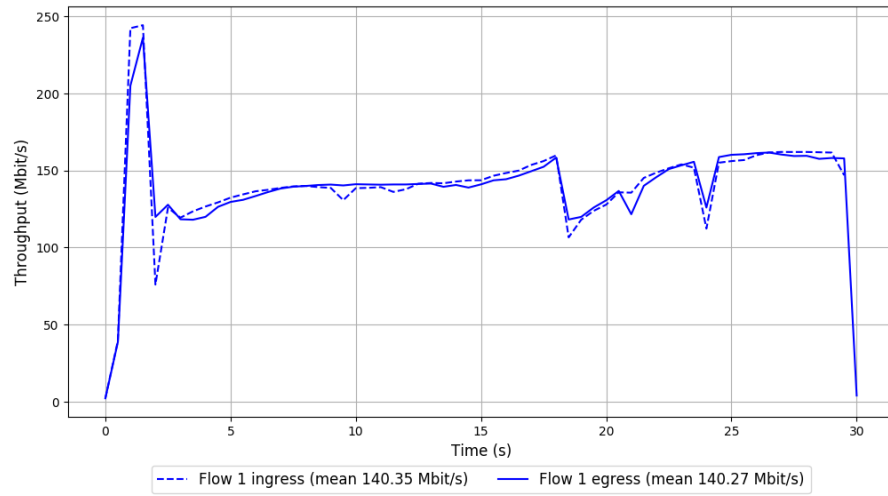
-- Flow 1:

Average throughput: 140.27 Mbit/s

95th percentile per-packet one-way delay: 55.612 ms

Loss rate: 0.07%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-01-09 03:57:51

End at: 2018-01-09 03:58:21

Below is generated by plot.py at 2018-01-09 05:39:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 44.03 Mbit/s

95th percentile per-packet one-way delay: 94.191 ms

Loss rate: 1.03%

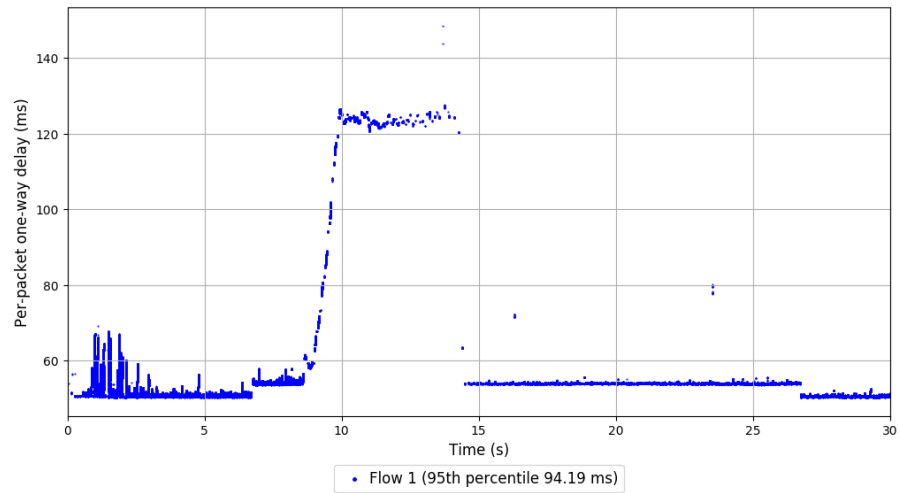
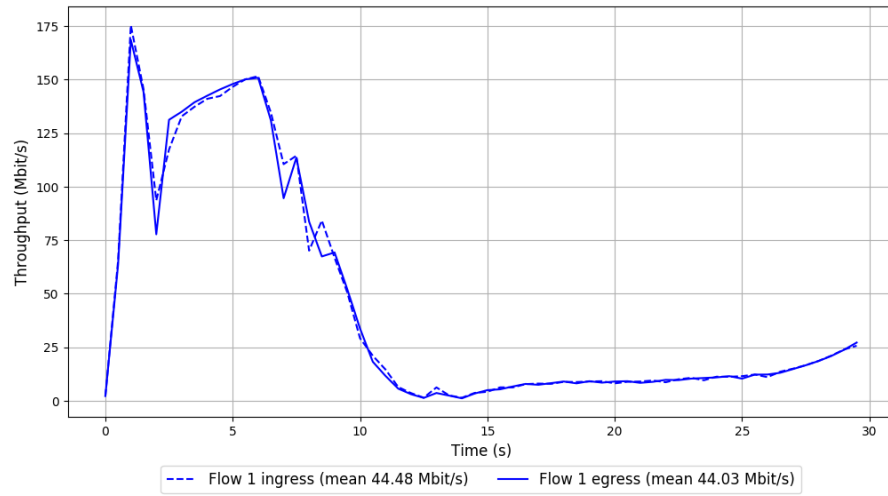
-- Flow 1:

Average throughput: 44.03 Mbit/s

95th percentile per-packet one-way delay: 94.191 ms

Loss rate: 1.03%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-01-09 04:09:15

End at: 2018-01-09 04:09:45

Below is generated by plot.py at 2018-01-09 05:39:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 14.16 Mbit/s

95th percentile per-packet one-way delay: 54.341 ms

Loss rate: 0.62%

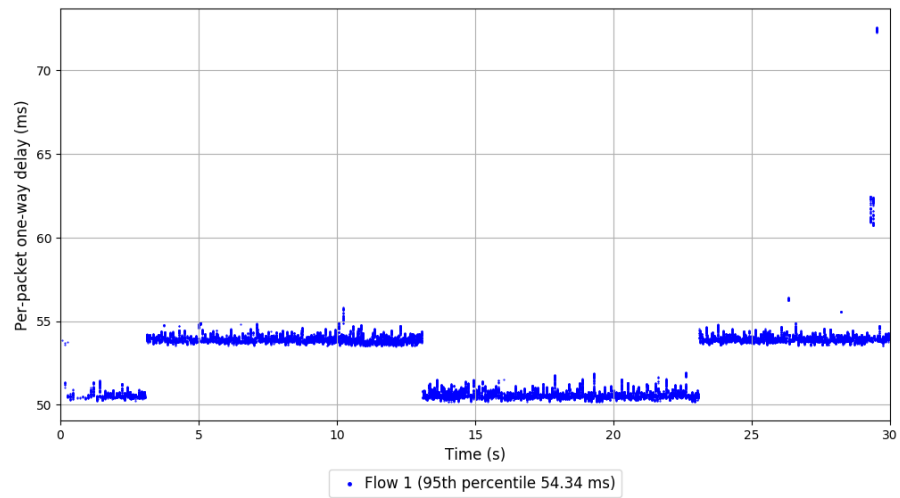
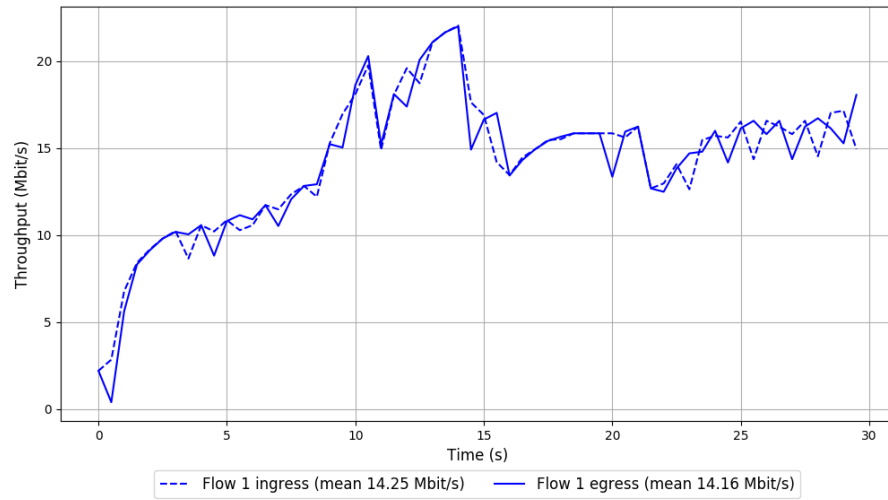
-- Flow 1:

Average throughput: 14.16 Mbit/s

95th percentile per-packet one-way delay: 54.341 ms

Loss rate: 0.62%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-01-09 04:20:35

End at: 2018-01-09 04:21:05

Below is generated by plot.py at 2018-01-09 05:40:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 125.10 Mbit/s

95th percentile per-packet one-way delay: 55.029 ms

Loss rate: 0.00%

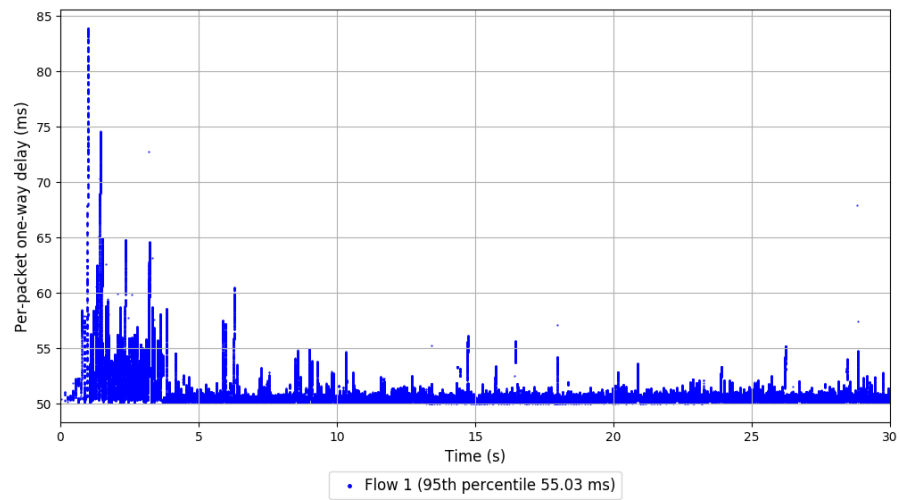
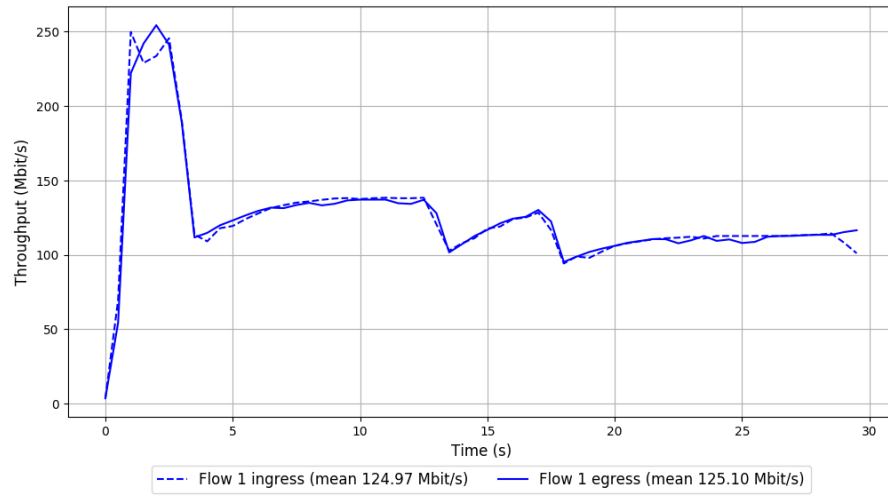
-- Flow 1:

Average throughput: 125.10 Mbit/s

95th percentile per-packet one-way delay: 55.029 ms

Loss rate: 0.00%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-01-09 04:32:15

End at: 2018-01-09 04:32:45

Below is generated by plot.py at 2018-01-09 05:40:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 145.36 Mbit/s

95th percentile per-packet one-way delay: 53.990 ms

Loss rate: 0.00%

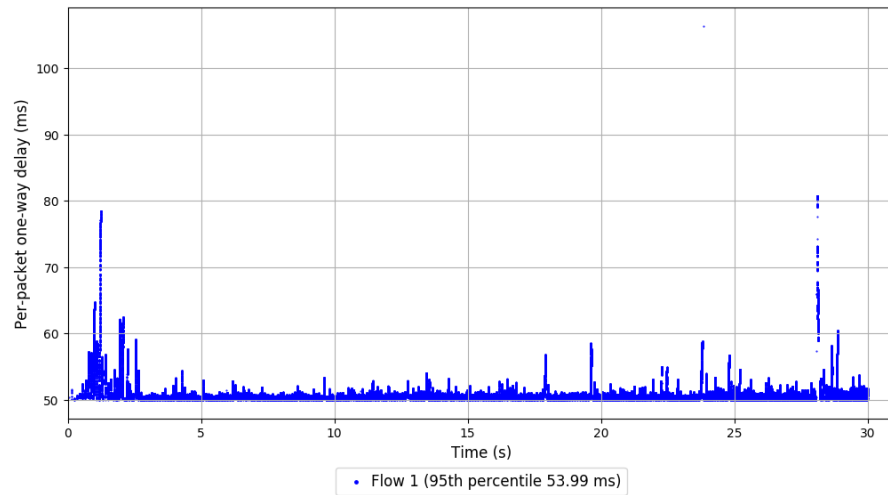
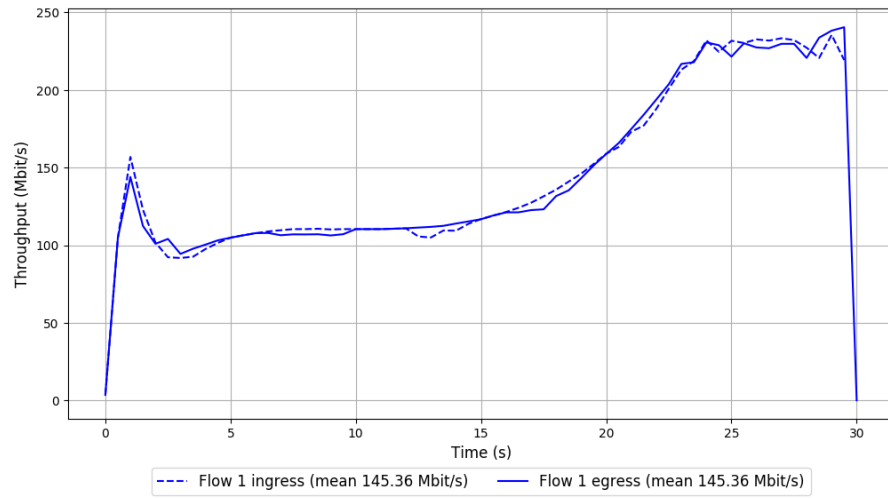
-- Flow 1:

Average throughput: 145.36 Mbit/s

95th percentile per-packet one-way delay: 53.990 ms

Loss rate: 0.00%

Run 10: Report of TCP Cubic — Data Link

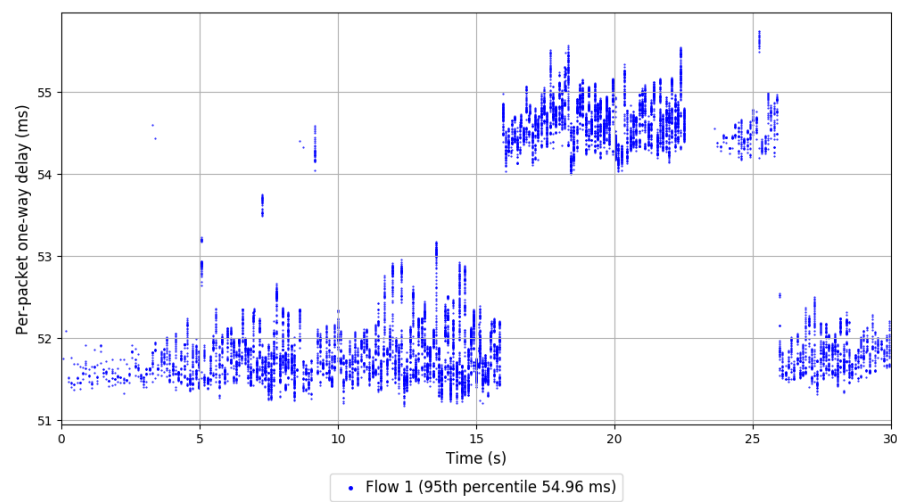
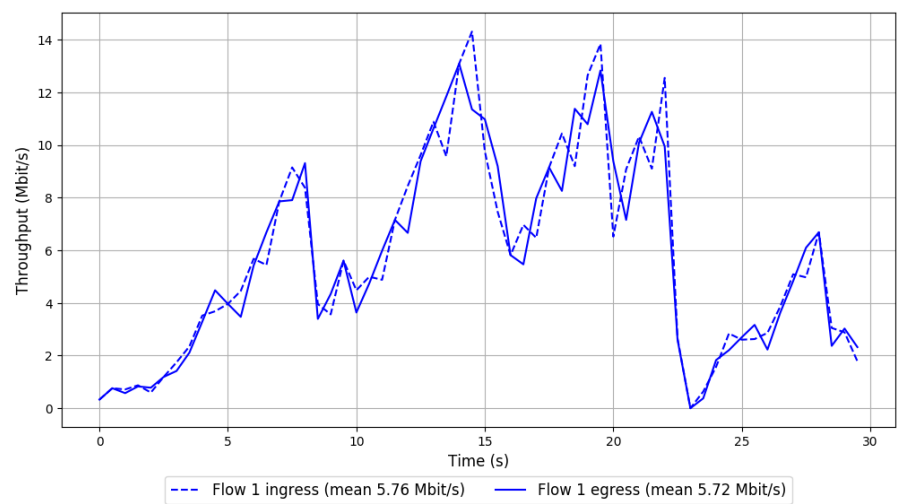


```
Run 1: Statistics of LEDBAT

Start at: 2018-01-09 02:43:12
End at: 2018-01-09 02:43:42

# Below is generated by plot.py at 2018-01-09 05:40:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 5.72 Mbit/s
95th percentile per-packet one-way delay: 54.961 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 5.72 Mbit/s
95th percentile per-packet one-way delay: 54.961 ms
Loss rate: 0.80%
```


Run 1: Report of LEDBAT — Data Link

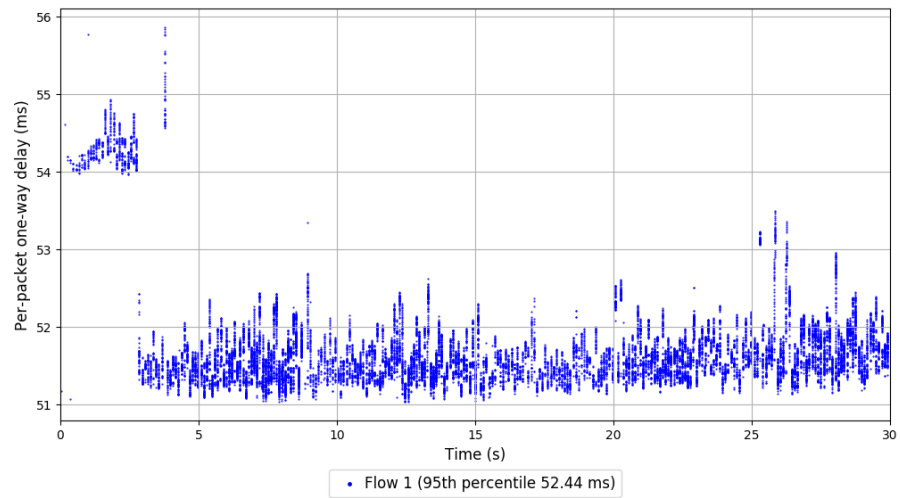
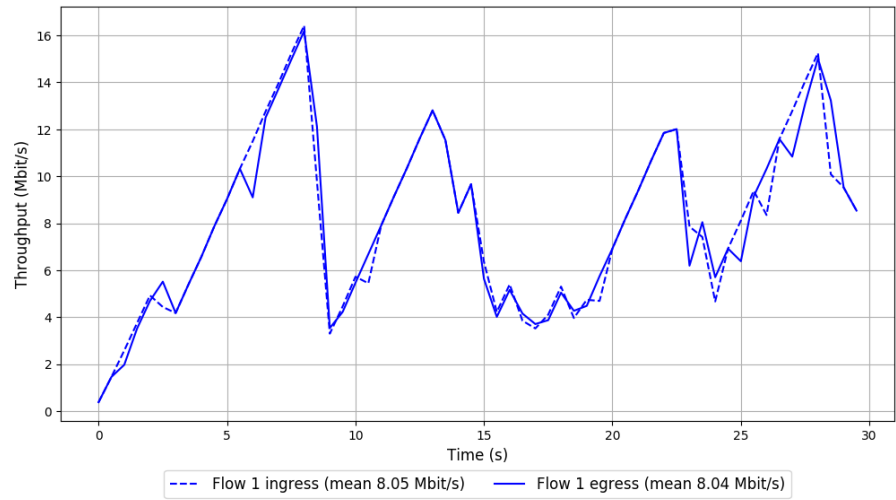


```
Run 2: Statistics of LEDBAT

Start at: 2018-01-09 02:54:35
End at: 2018-01-09 02:55:05

# Below is generated by plot.py at 2018-01-09 05:40:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 8.04 Mbit/s
95th percentile per-packet one-way delay: 52.443 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 8.04 Mbit/s
95th percentile per-packet one-way delay: 52.443 ms
Loss rate: 0.02%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-01-09 03:06:00

End at: 2018-01-09 03:06:30

Below is generated by plot.py at 2018-01-09 05:40:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.19 Mbit/s

95th percentile per-packet one-way delay: 54.010 ms

Loss rate: 0.77%

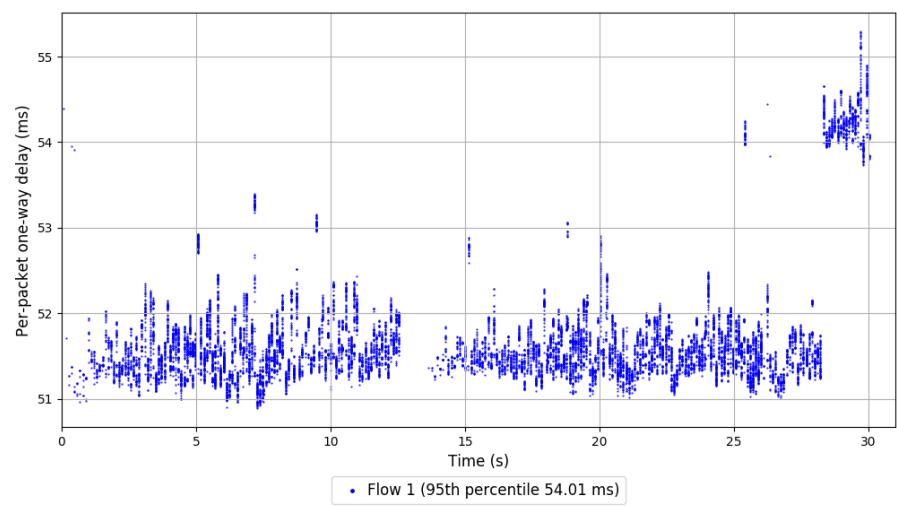
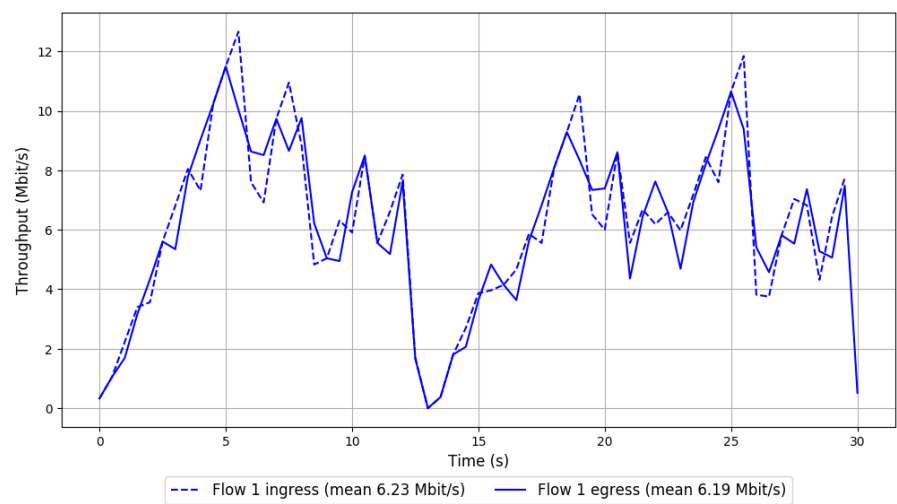
-- Flow 1:

Average throughput: 6.19 Mbit/s

95th percentile per-packet one-way delay: 54.010 ms

Loss rate: 0.77%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-01-09 03:17:17

End at: 2018-01-09 03:17:47

Below is generated by plot.py at 2018-01-09 05:40:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 9.47 Mbit/s

95th percentile per-packet one-way delay: 54.713 ms

Loss rate: 0.01%

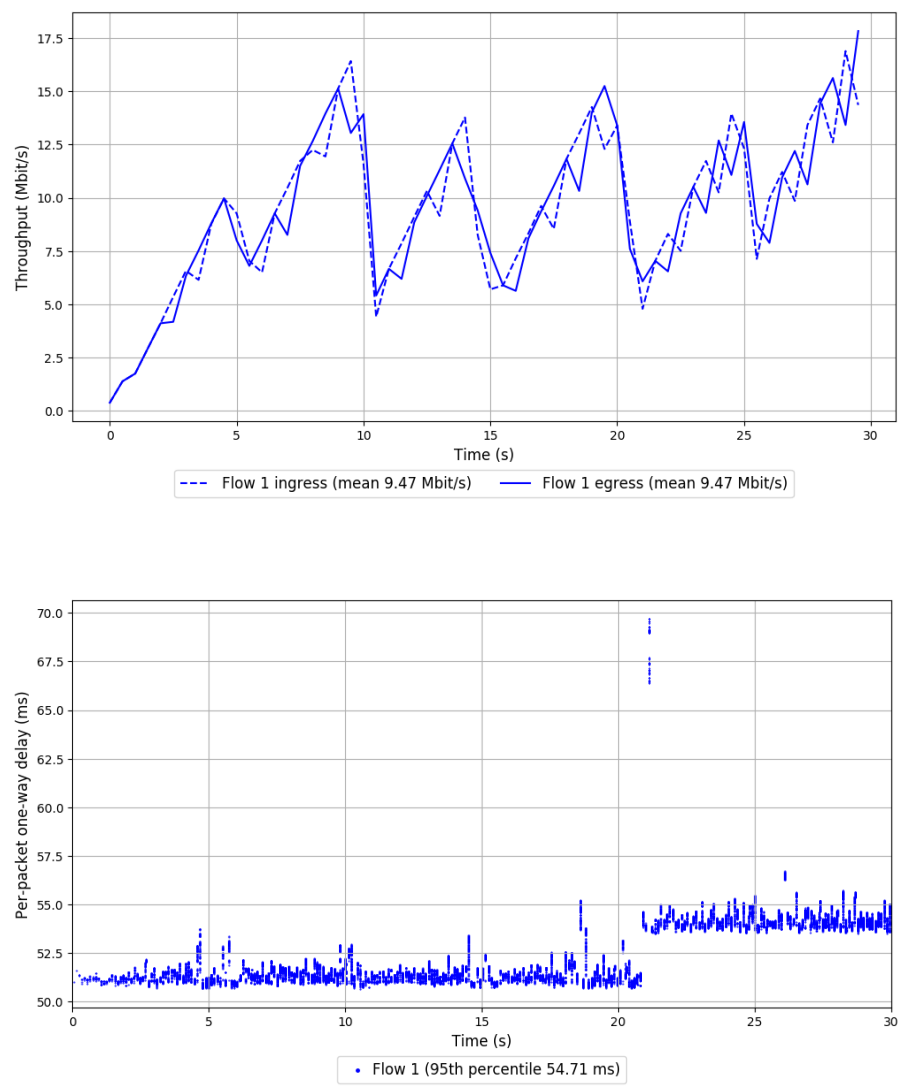
-- Flow 1:

Average throughput: 9.47 Mbit/s

95th percentile per-packet one-way delay: 54.713 ms

Loss rate: 0.01%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-01-09 03:28:41

End at: 2018-01-09 03:29:11

Below is generated by plot.py at 2018-01-09 05:40:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.18 Mbit/s

95th percentile per-packet one-way delay: 51.936 ms

Loss rate: 0.70%

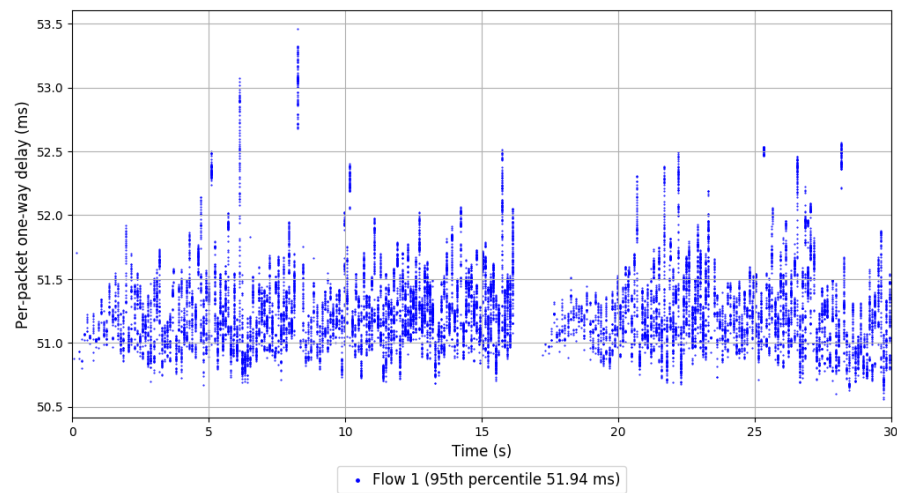
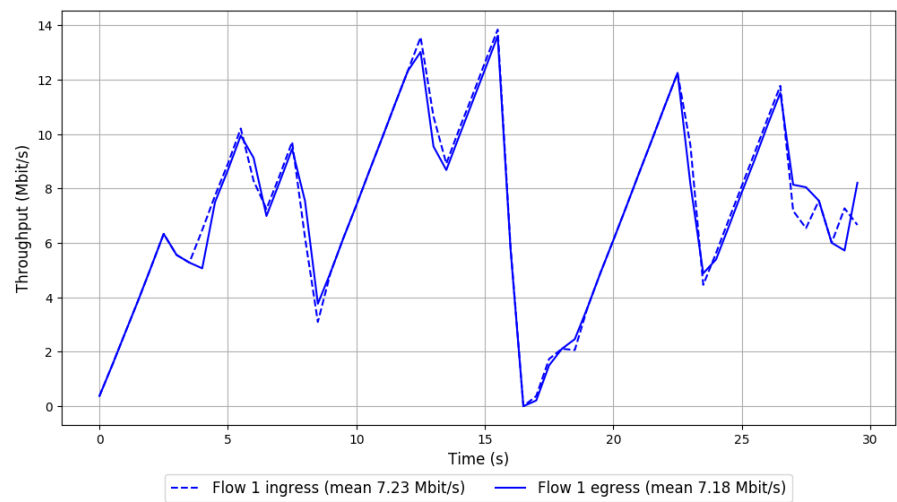
-- Flow 1:

Average throughput: 7.18 Mbit/s

95th percentile per-packet one-way delay: 51.936 ms

Loss rate: 0.70%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-01-09 03:39:53

End at: 2018-01-09 03:40:23

Below is generated by plot.py at 2018-01-09 05:40:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 8.77 Mbit/s

95th percentile per-packet one-way delay: 51.860 ms

Loss rate: 0.04%

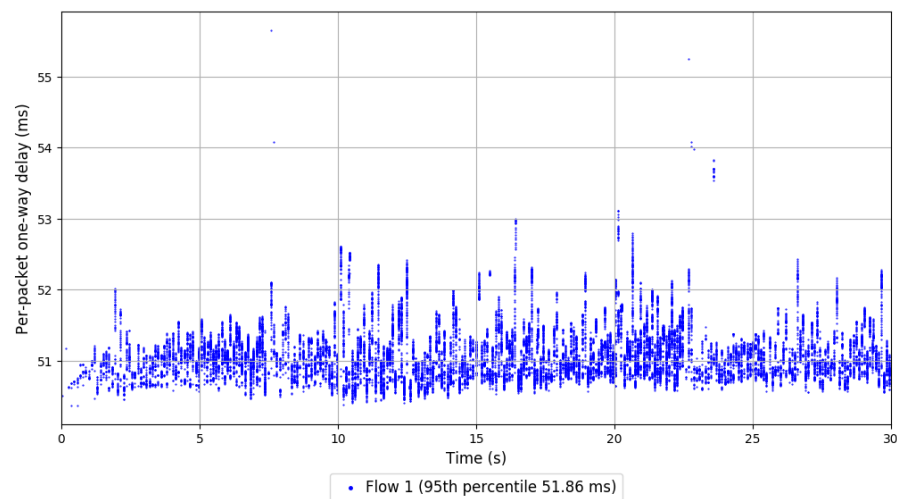
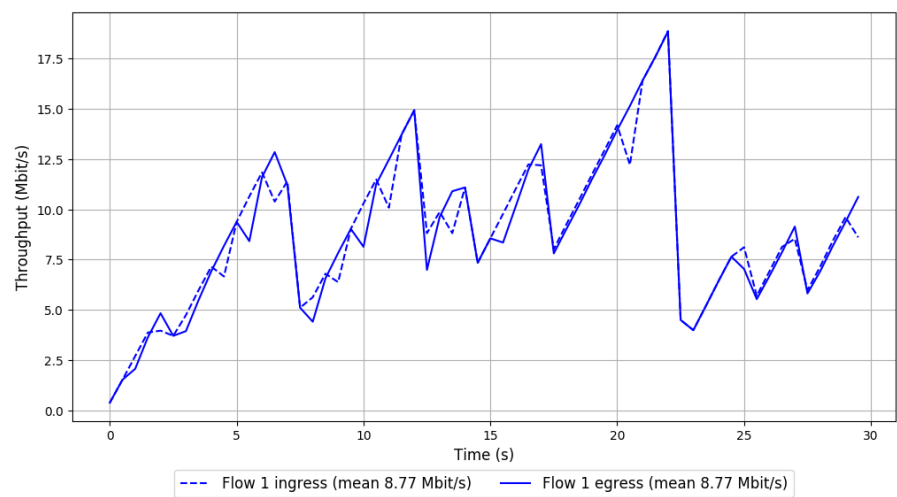
-- Flow 1:

Average throughput: 8.77 Mbit/s

95th percentile per-packet one-way delay: 51.860 ms

Loss rate: 0.04%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-01-09 03:50:56

End at: 2018-01-09 03:51:26

Below is generated by plot.py at 2018-01-09 05:40:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.25 Mbit/s

95th percentile per-packet one-way delay: 51.431 ms

Loss rate: 0.05%

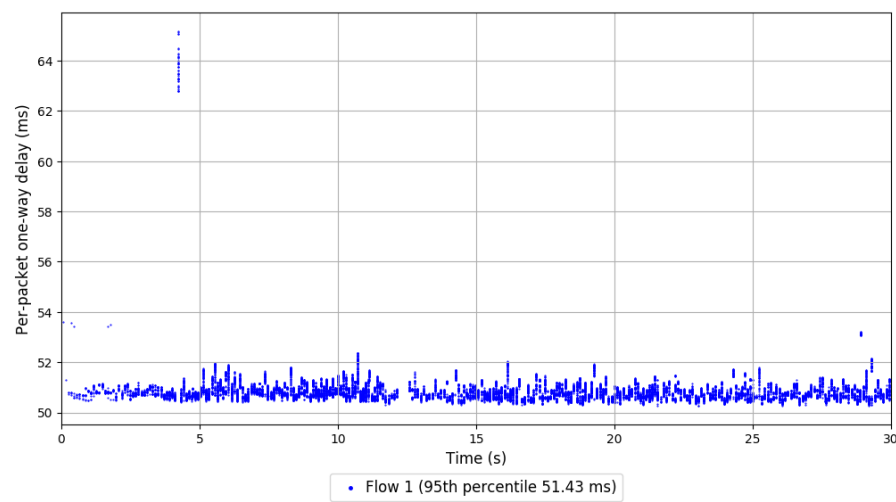
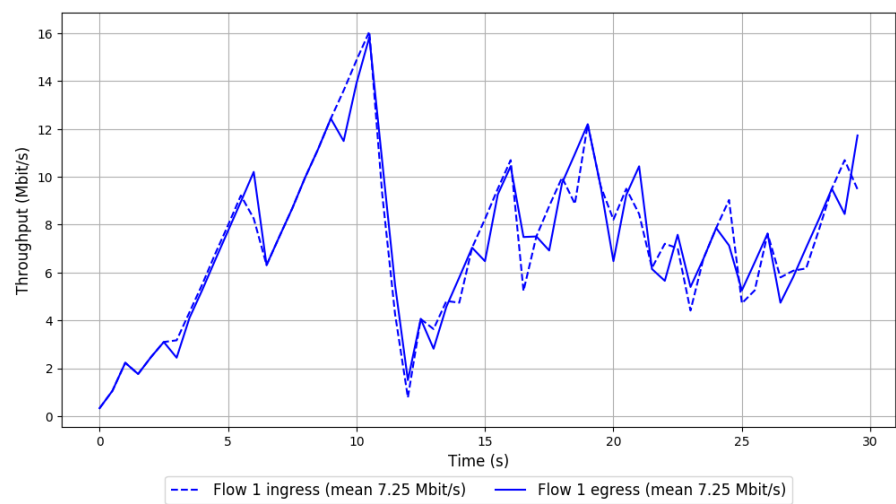
-- Flow 1:

Average throughput: 7.25 Mbit/s

95th percentile per-packet one-way delay: 51.431 ms

Loss rate: 0.05%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-01-09 04:02:08

End at: 2018-01-09 04:02:38

Below is generated by plot.py at 2018-01-09 05:40:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.68 Mbit/s

95th percentile per-packet one-way delay: 54.418 ms

Loss rate: 1.11%

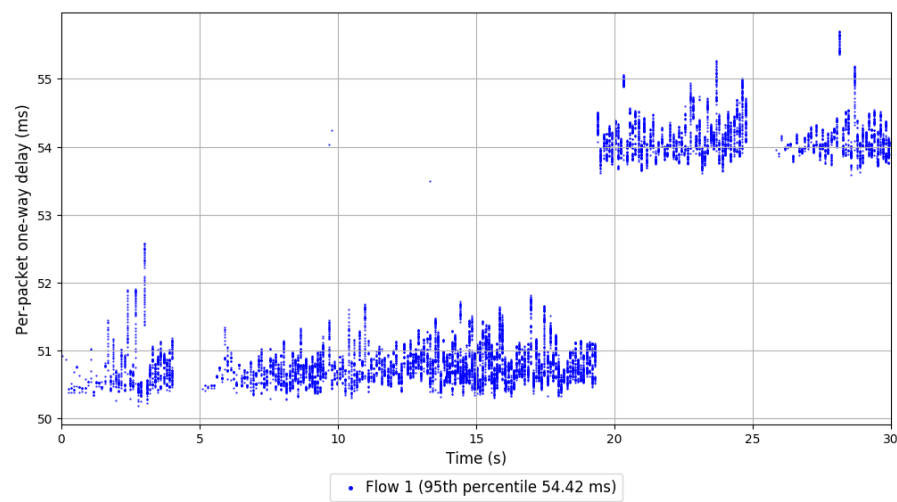
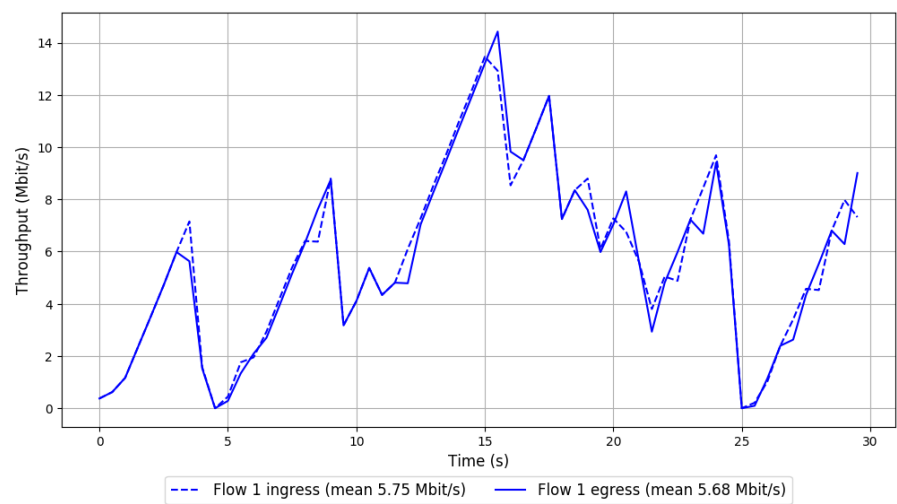
-- Flow 1:

Average throughput: 5.68 Mbit/s

95th percentile per-packet one-way delay: 54.418 ms

Loss rate: 1.11%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-01-09 04:13:24

End at: 2018-01-09 04:13:54

Below is generated by plot.py at 2018-01-09 05:40:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.13 Mbit/s

95th percentile per-packet one-way delay: 54.713 ms

Loss rate: 1.40%

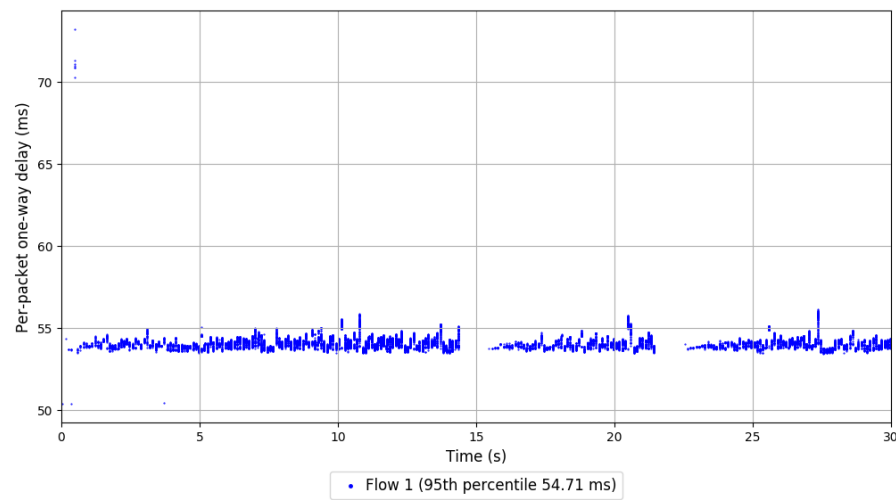
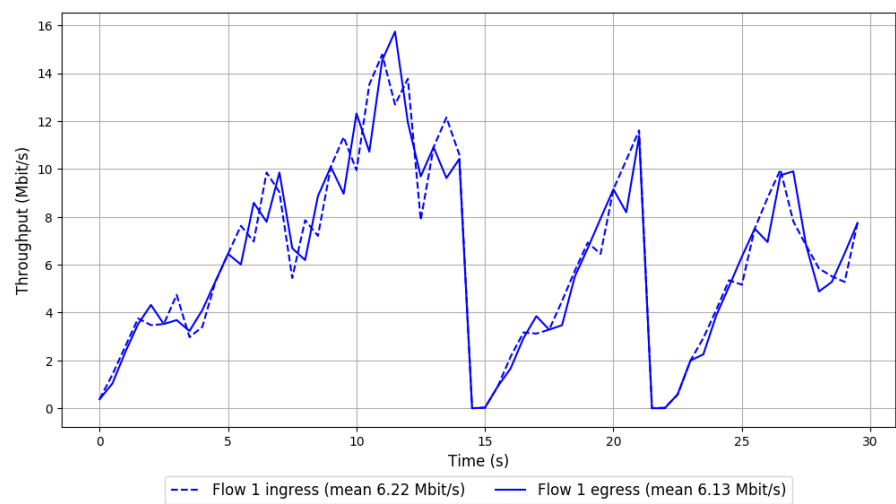
-- Flow 1:

Average throughput: 6.13 Mbit/s

95th percentile per-packet one-way delay: 54.713 ms

Loss rate: 1.40%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-01-09 04:25:05

End at: 2018-01-09 04:25:35

Below is generated by plot.py at 2018-01-09 05:40:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.88 Mbit/s

95th percentile per-packet one-way delay: 53.698 ms

Loss rate: 0.00%

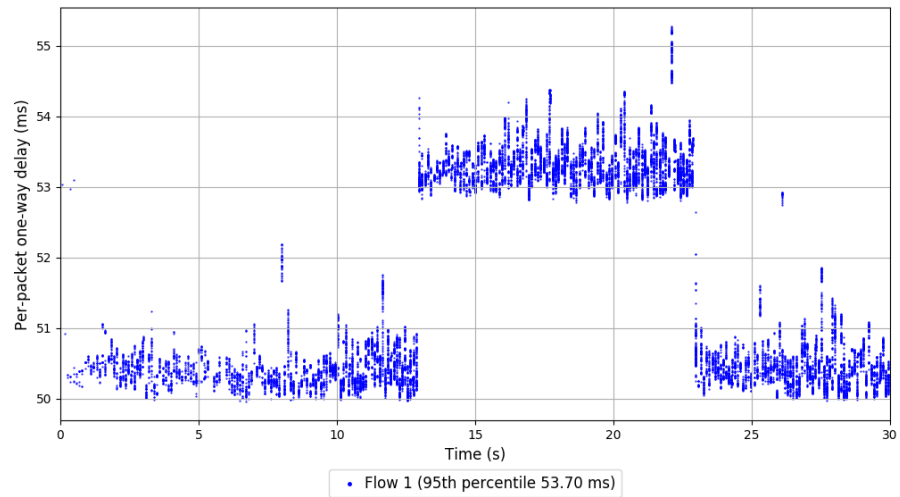
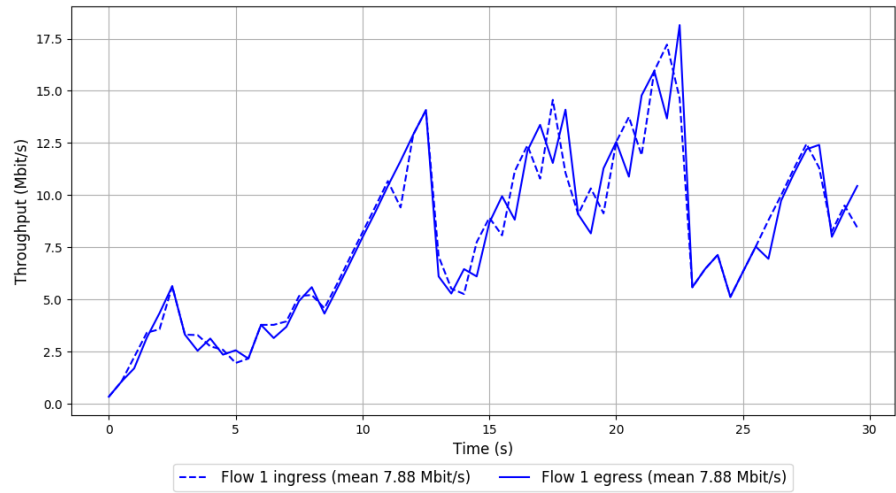
-- Flow 1:

Average throughput: 7.88 Mbit/s

95th percentile per-packet one-way delay: 53.698 ms

Loss rate: 0.00%

Run 10: Report of LEDBAT — Data Link

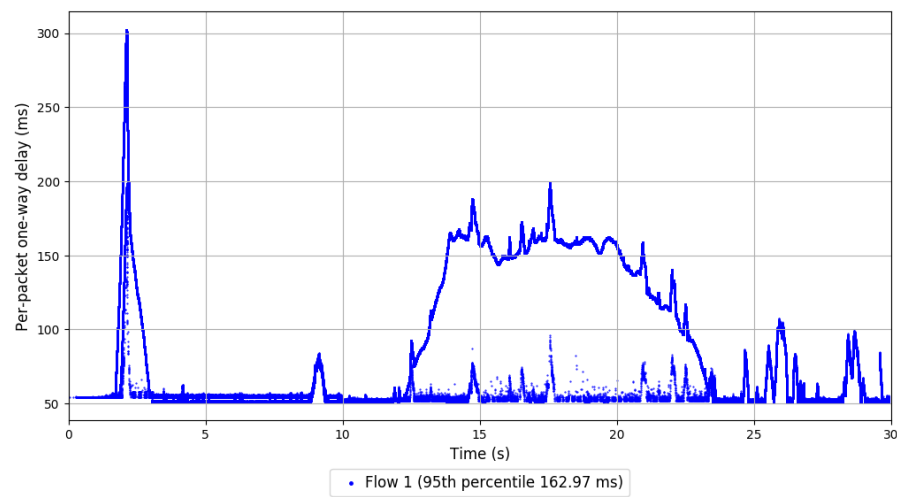
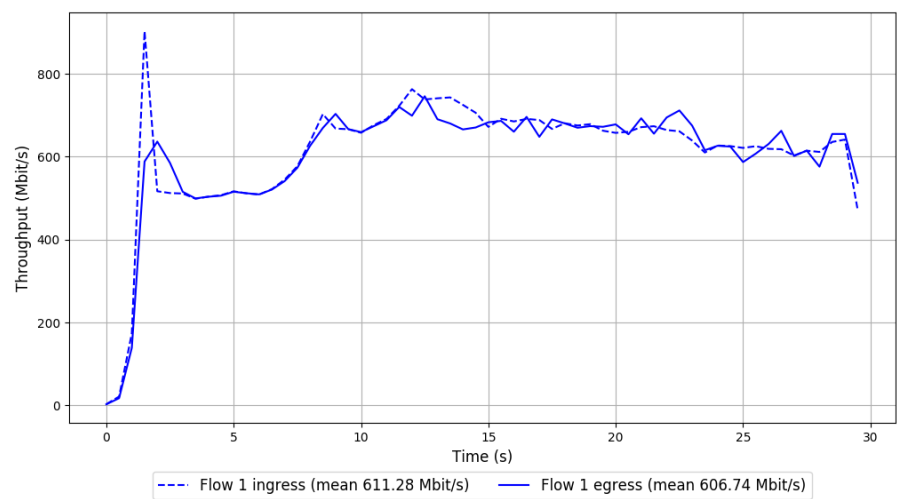


```
Run 1: Statistics of PCC

Start at: 2018-01-09 02:45:25
End at: 2018-01-09 02:45:55

# Below is generated by plot.py at 2018-01-09 05:49:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 606.74 Mbit/s
95th percentile per-packet one-way delay: 162.974 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 606.74 Mbit/s
95th percentile per-packet one-way delay: 162.974 ms
Loss rate: 0.75%
```

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2018-01-09 02:56:49

End at: 2018-01-09 02:57:19

Below is generated by plot.py at 2018-01-09 05:49:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 559.40 Mbit/s

95th percentile per-packet one-way delay: 172.143 ms

Loss rate: 1.23%

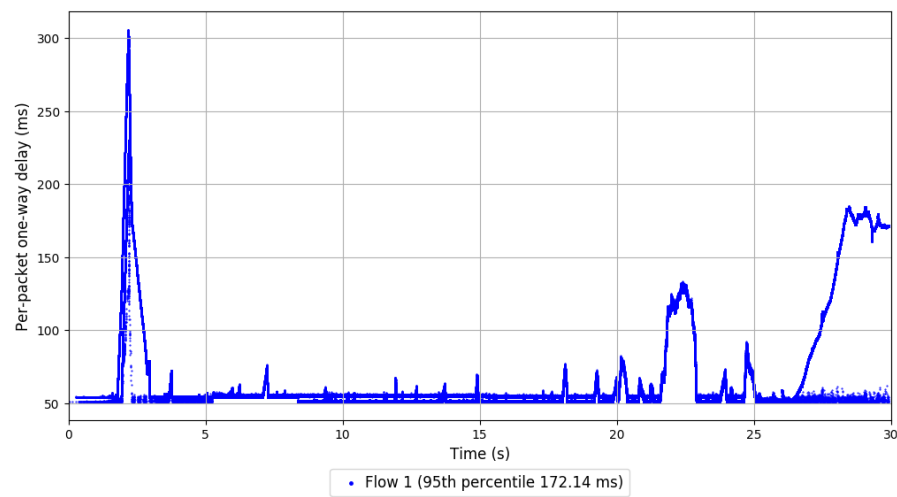
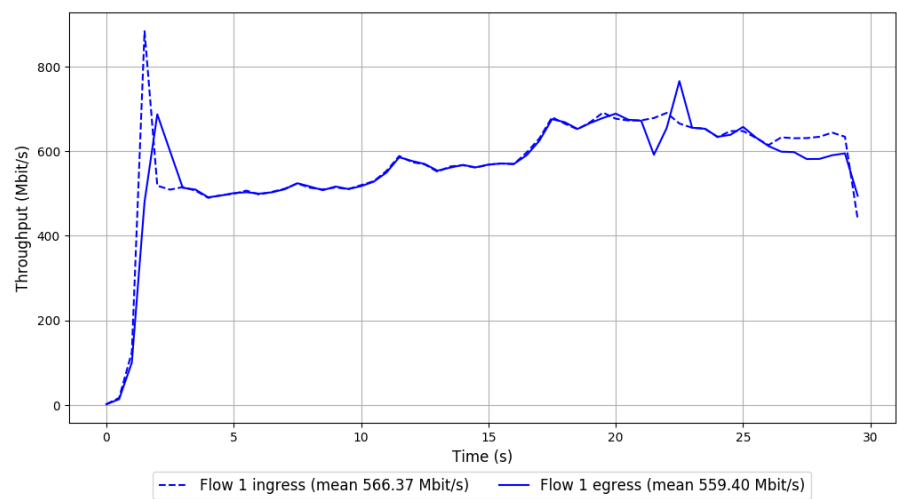
-- Flow 1:

Average throughput: 559.40 Mbit/s

95th percentile per-packet one-way delay: 172.143 ms

Loss rate: 1.23%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2018-01-09 03:08:12

End at: 2018-01-09 03:08:42

Below is generated by plot.py at 2018-01-09 05:49:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 621.73 Mbit/s

95th percentile per-packet one-way delay: 80.003 ms

Loss rate: 0.20%

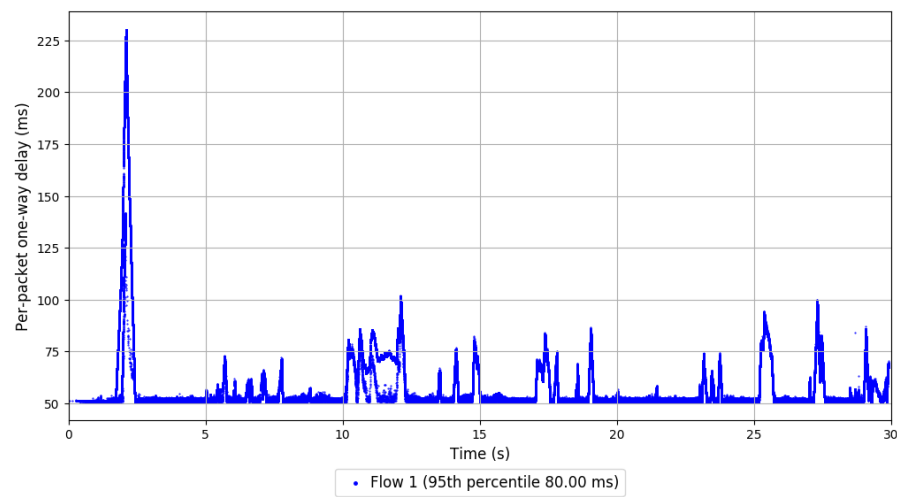
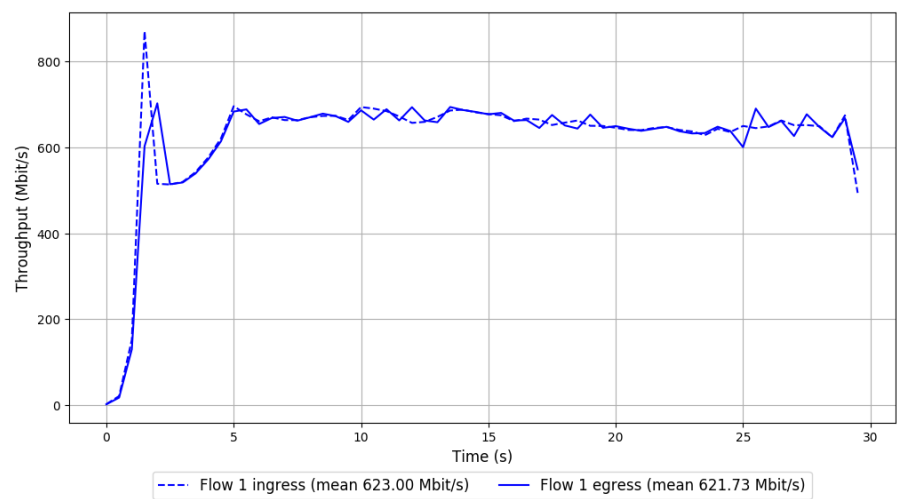
-- Flow 1:

Average throughput: 621.73 Mbit/s

95th percentile per-packet one-way delay: 80.003 ms

Loss rate: 0.20%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2018-01-09 03:19:33

End at: 2018-01-09 03:20:03

Below is generated by plot.py at 2018-01-09 05:49:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 615.64 Mbit/s

95th percentile per-packet one-way delay: 95.746 ms

Loss rate: 0.29%

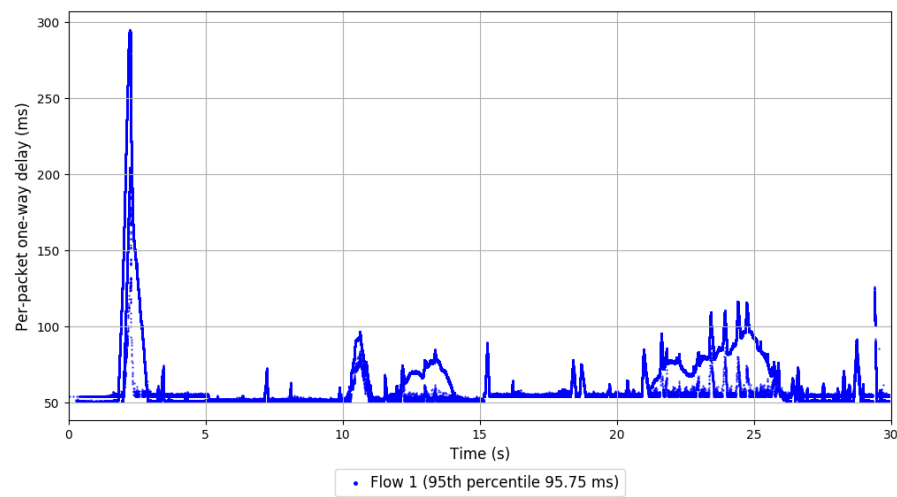
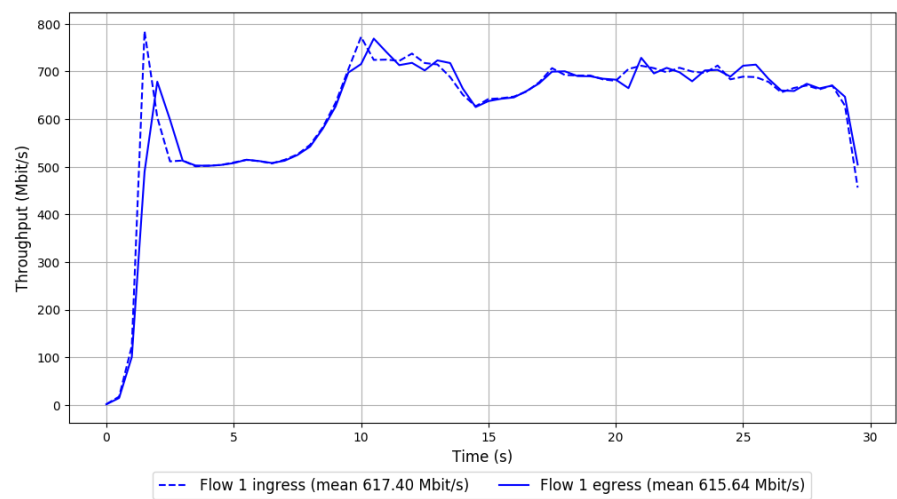
-- Flow 1:

Average throughput: 615.64 Mbit/s

95th percentile per-packet one-way delay: 95.746 ms

Loss rate: 0.29%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2018-01-09 03:30:49

End at: 2018-01-09 03:31:19

Below is generated by plot.py at 2018-01-09 05:49:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 548.38 Mbit/s

95th percentile per-packet one-way delay: 208.317 ms

Loss rate: 1.27%

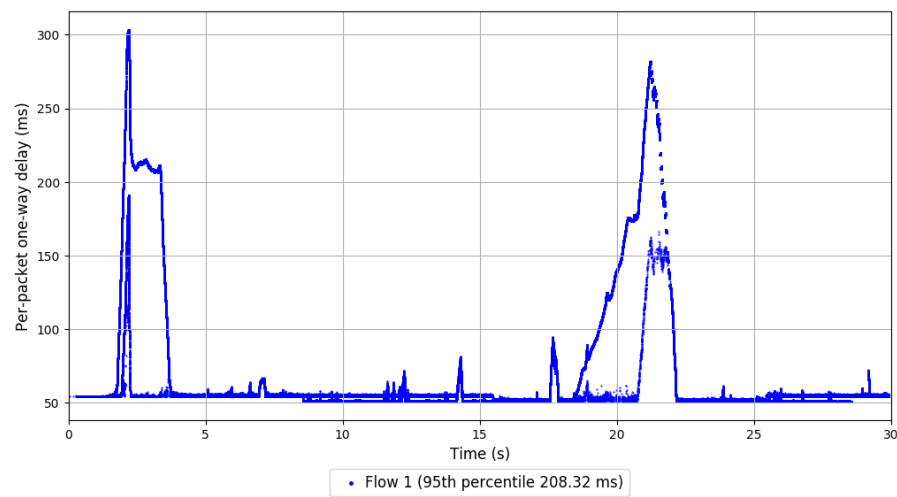
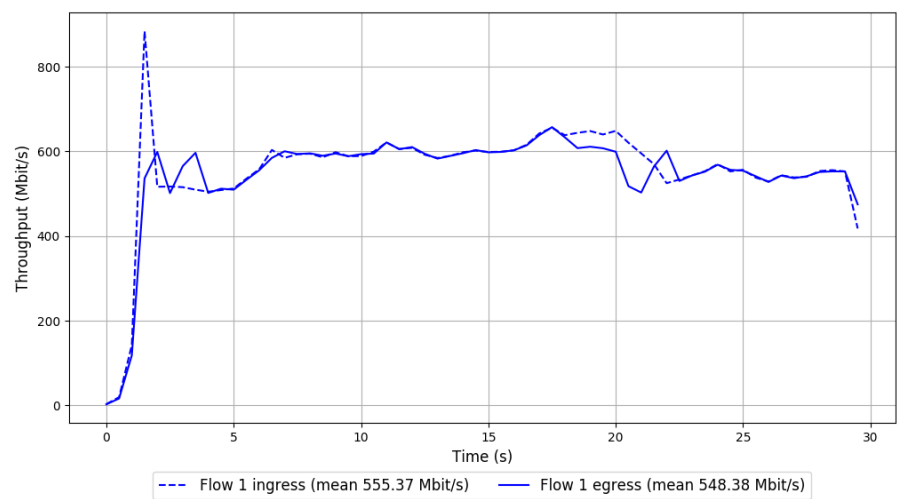
-- Flow 1:

Average throughput: 548.38 Mbit/s

95th percentile per-packet one-way delay: 208.317 ms

Loss rate: 1.27%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2018-01-09 03:42:01

End at: 2018-01-09 03:42:31

Below is generated by plot.py at 2018-01-09 05:49:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 532.05 Mbit/s

95th percentile per-packet one-way delay: 83.475 ms

Loss rate: 0.68%

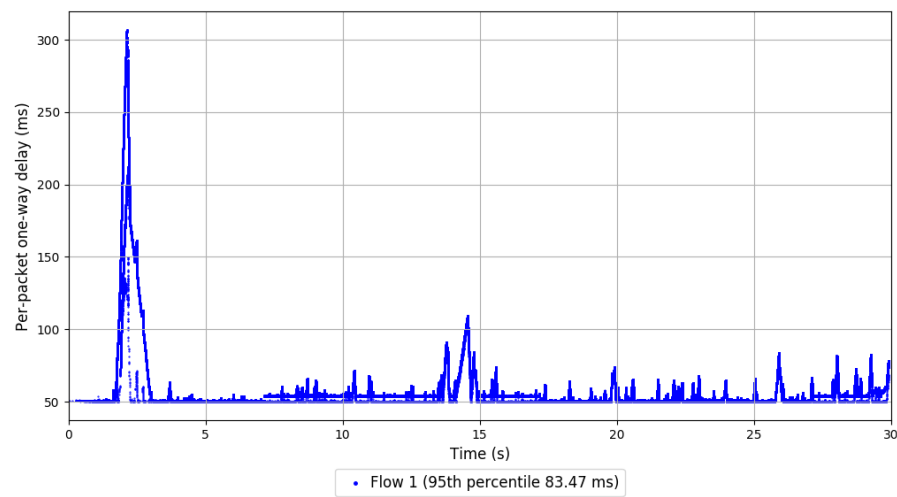
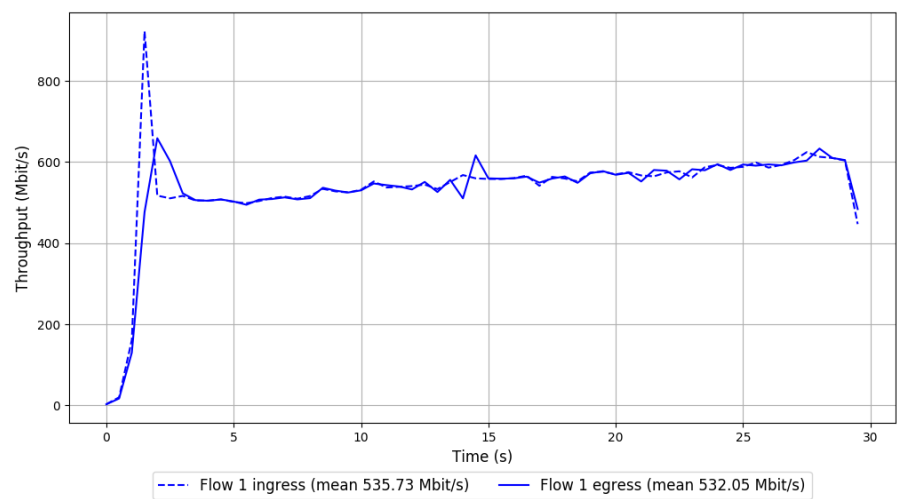
-- Flow 1:

Average throughput: 532.05 Mbit/s

95th percentile per-packet one-way delay: 83.475 ms

Loss rate: 0.68%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2018-01-09 03:53:10

End at: 2018-01-09 03:53:40

Below is generated by plot.py at 2018-01-09 05:51:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 634.33 Mbit/s

95th percentile per-packet one-way delay: 85.876 ms

Loss rate: 0.21%

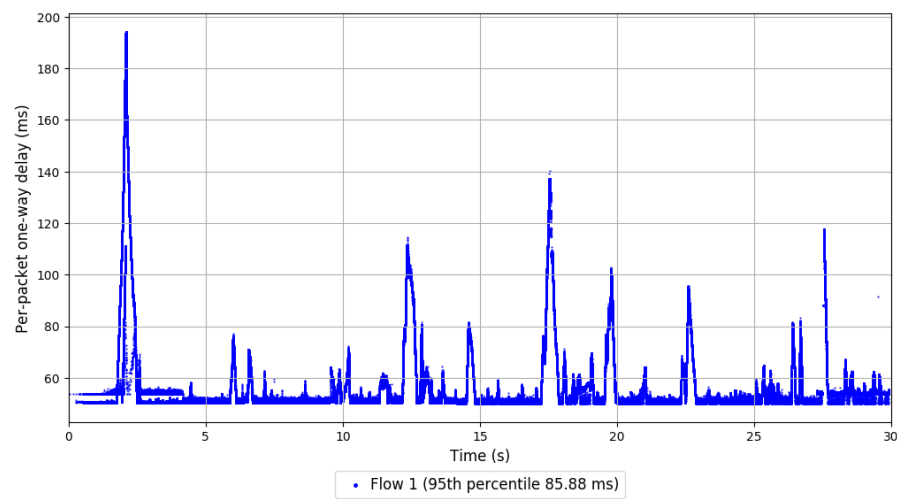
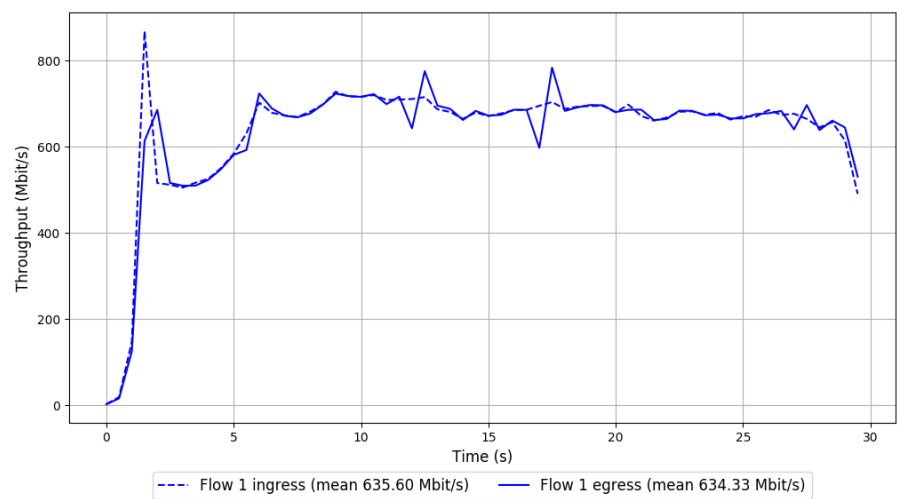
-- Flow 1:

Average throughput: 634.33 Mbit/s

95th percentile per-packet one-way delay: 85.876 ms

Loss rate: 0.21%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2018-01-09 04:04:25

End at: 2018-01-09 04:04:55

Below is generated by plot.py at 2018-01-09 05:51:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 593.77 Mbit/s

95th percentile per-packet one-way delay: 184.435 ms

Loss rate: 2.42%

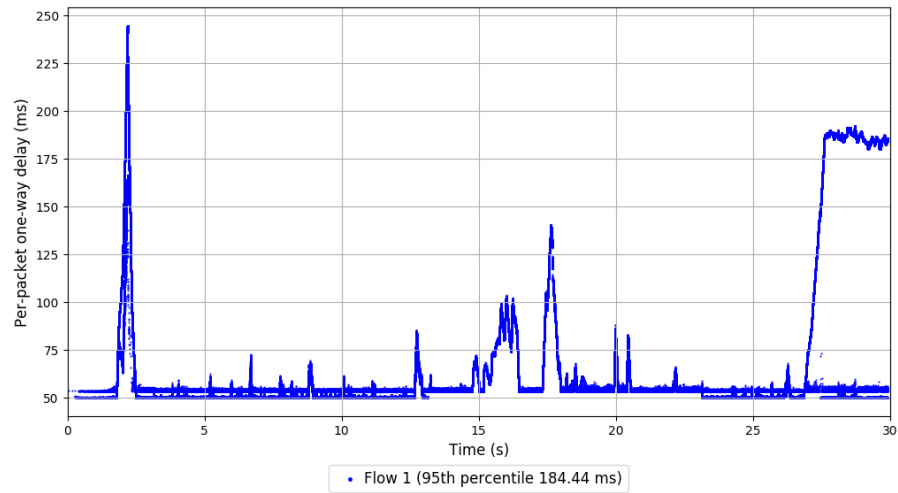
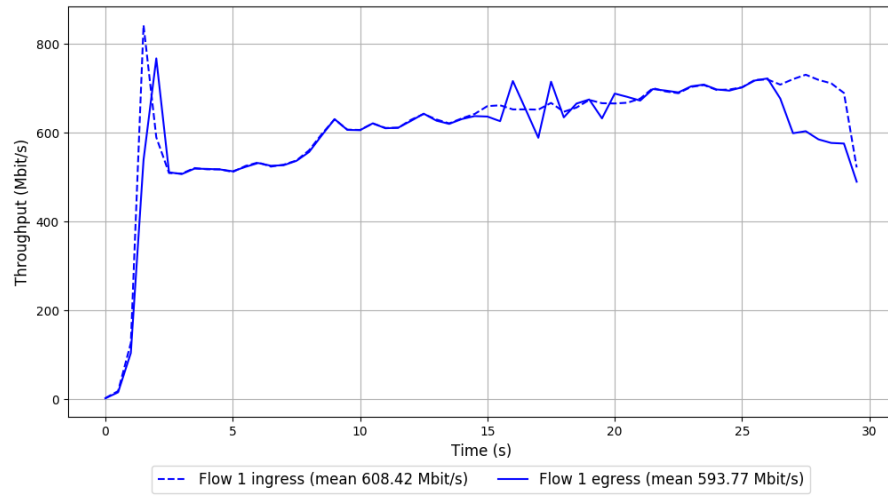
-- Flow 1:

Average throughput: 593.77 Mbit/s

95th percentile per-packet one-way delay: 184.435 ms

Loss rate: 2.42%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2018-01-09 04:15:41

End at: 2018-01-09 04:16:11

Below is generated by plot.py at 2018-01-09 05:59:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 618.34 Mbit/s

95th percentile per-packet one-way delay: 176.918 ms

Loss rate: 2.62%

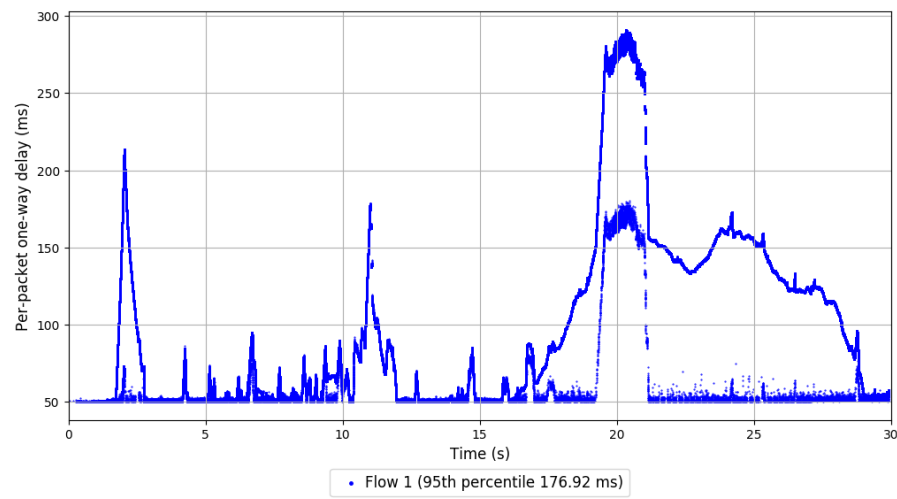
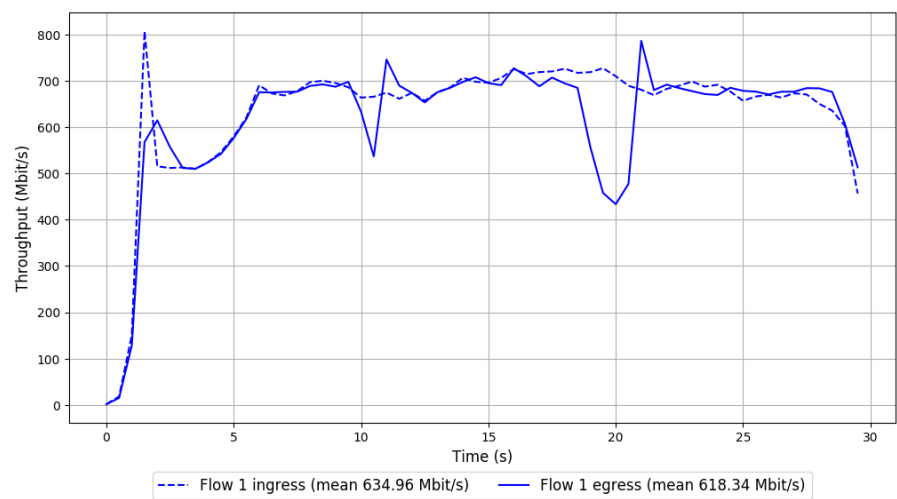
-- Flow 1:

Average throughput: 618.34 Mbit/s

95th percentile per-packet one-way delay: 176.918 ms

Loss rate: 2.62%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2018-01-09 04:27:23

End at: 2018-01-09 04:27:53

Below is generated by plot.py at 2018-01-09 05:59:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 600.47 Mbit/s

95th percentile per-packet one-way delay: 165.331 ms

Loss rate: 1.54%

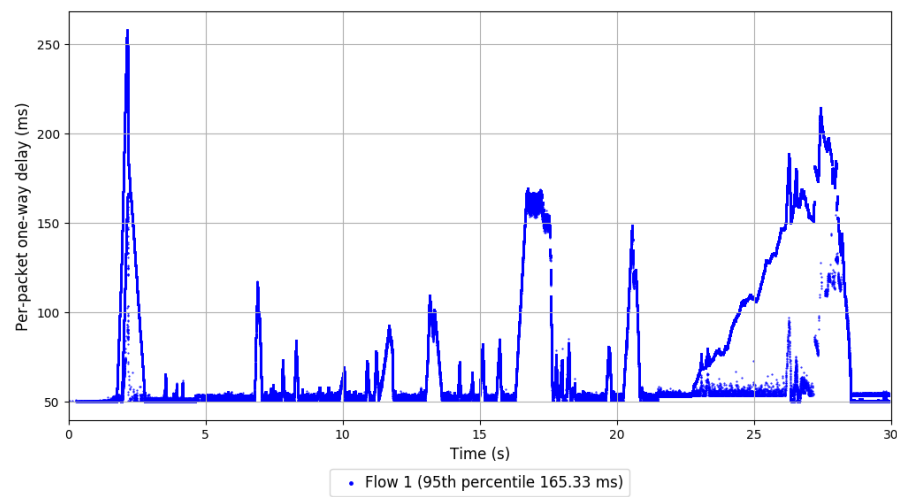
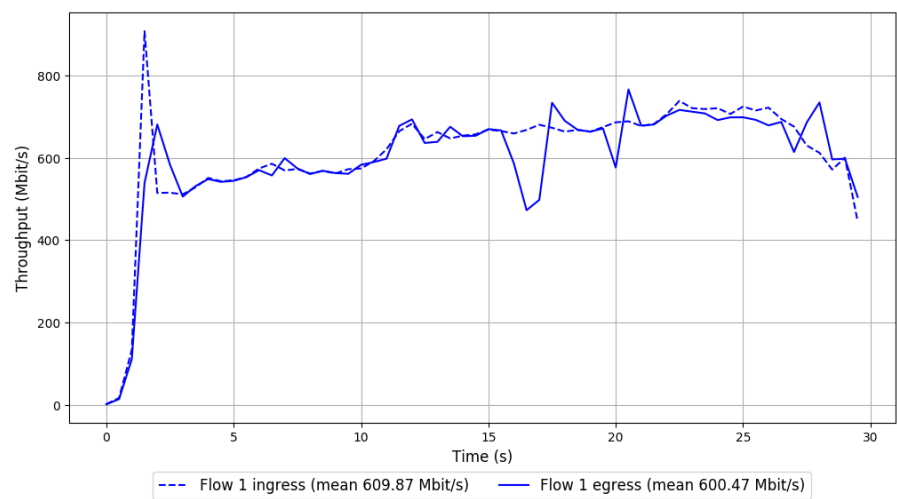
-- Flow 1:

Average throughput: 600.47 Mbit/s

95th percentile per-packet one-way delay: 165.331 ms

Loss rate: 1.54%

Run 10: Report of PCC — Data Link

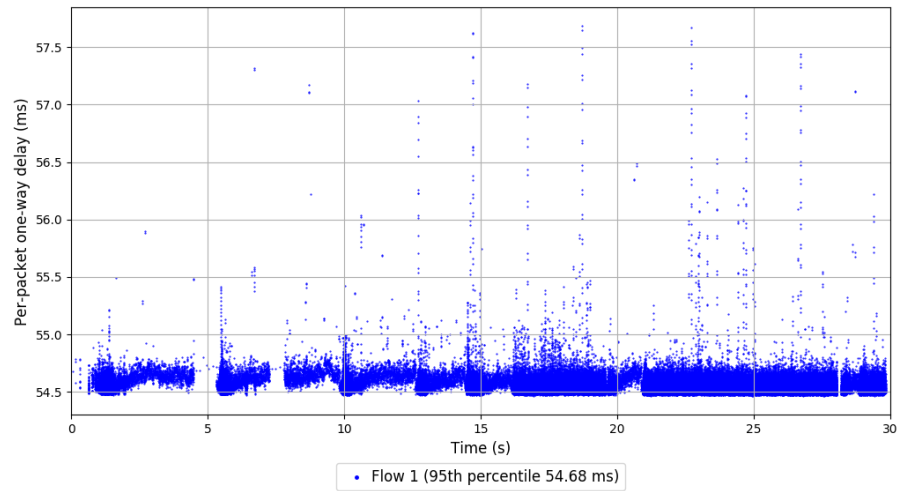
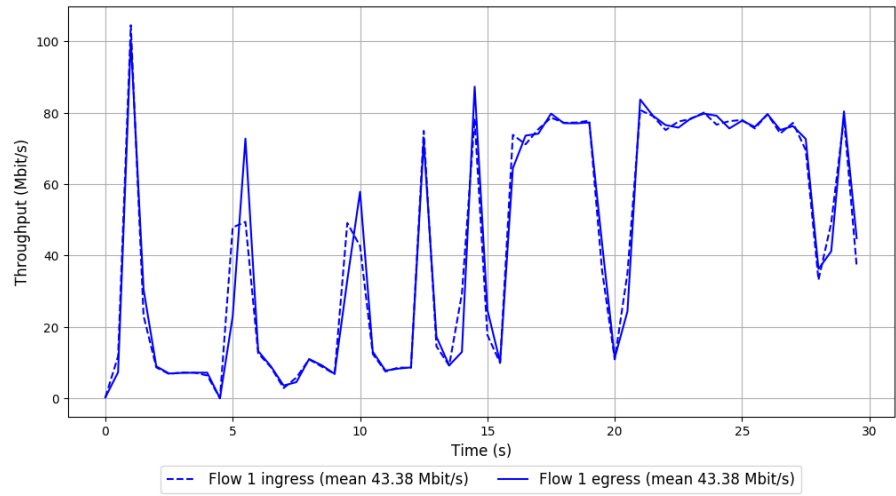


```
Run 1: Statistics of QUIC Cubic

Start at: 2018-01-09 02:48:22
End at: 2018-01-09 02:48:52

# Below is generated by plot.py at 2018-01-09 05:59:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 43.38 Mbit/s
95th percentile per-packet one-way delay: 54.678 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 43.38 Mbit/s
95th percentile per-packet one-way delay: 54.678 ms
Loss rate: 0.02%
```


Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-01-09 02:59:45

End at: 2018-01-09 03:00:15

Below is generated by plot.py at 2018-01-09 05:59:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 47.90 Mbit/s

95th percentile per-packet one-way delay: 54.473 ms

Loss rate: 0.01%

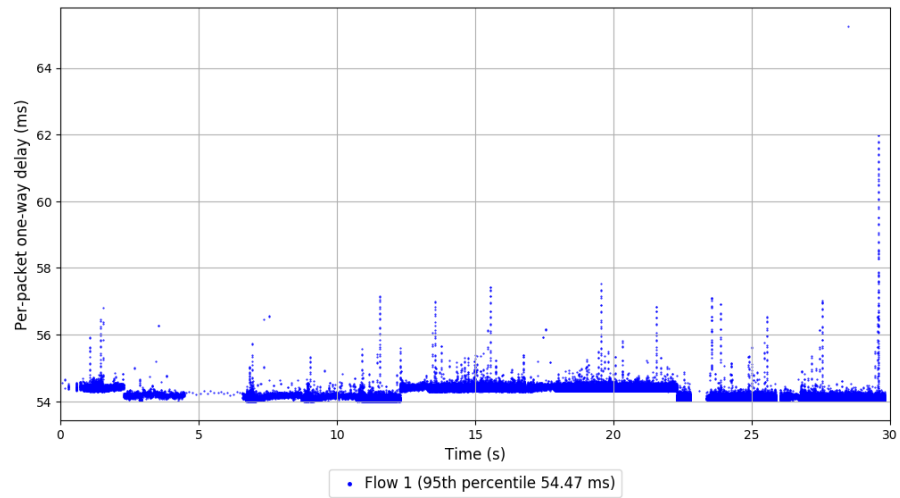
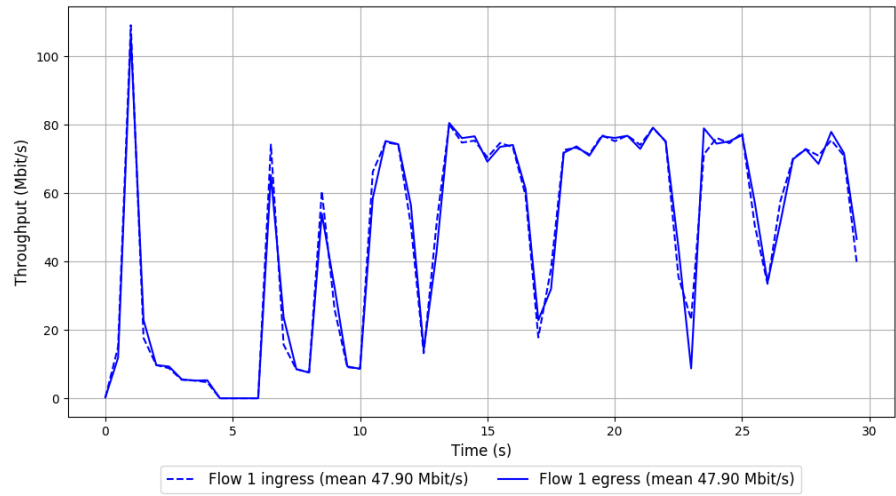
-- Flow 1:

Average throughput: 47.90 Mbit/s

95th percentile per-packet one-way delay: 54.473 ms

Loss rate: 0.01%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-01-09 03:11:10

End at: 2018-01-09 03:11:40

Below is generated by plot.py at 2018-01-09 05:59:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 38.29 Mbit/s

95th percentile per-packet one-way delay: 50.998 ms

Loss rate: 0.00%

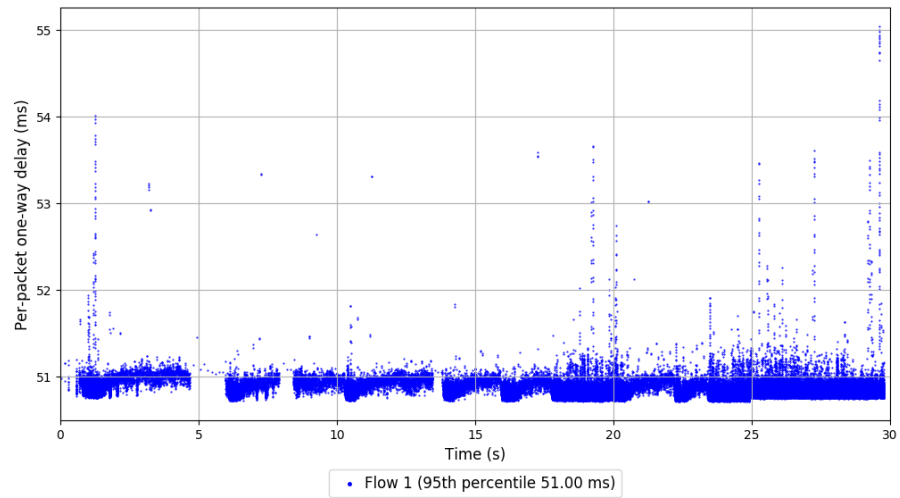
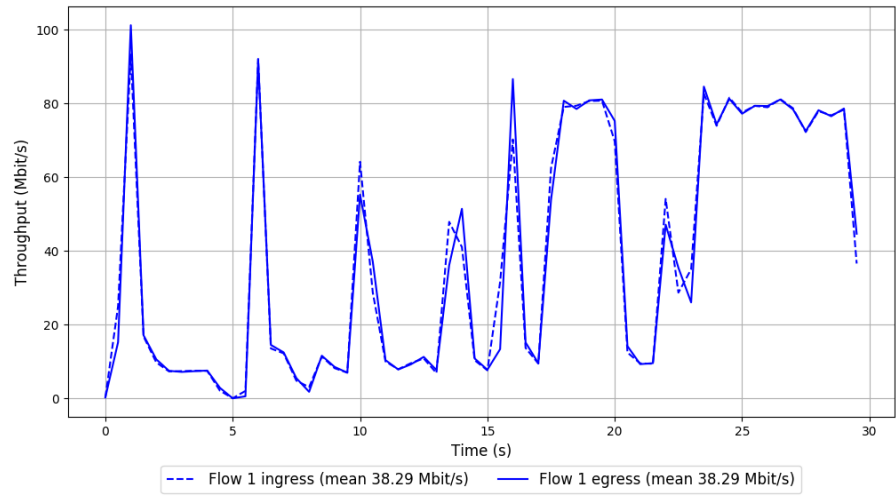
-- Flow 1:

Average throughput: 38.29 Mbit/s

95th percentile per-packet one-way delay: 50.998 ms

Loss rate: 0.00%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-01-09 03:22:30

End at: 2018-01-09 03:23:00

Below is generated by plot.py at 2018-01-09 05:59:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 42.97 Mbit/s

95th percentile per-packet one-way delay: 54.132 ms

Loss rate: 0.01%

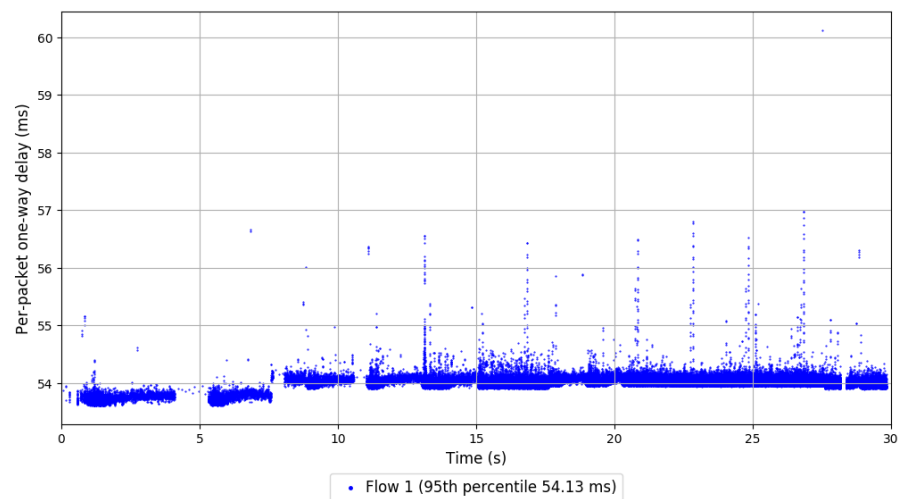
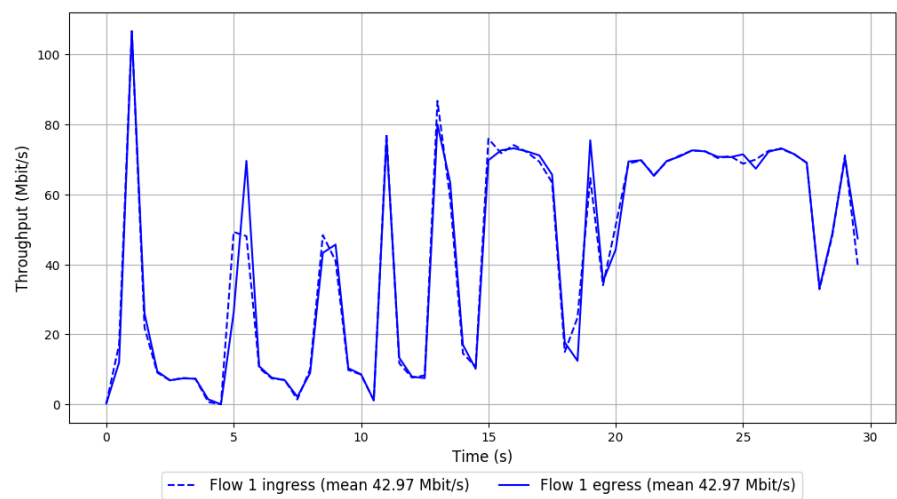
-- Flow 1:

Average throughput: 42.97 Mbit/s

95th percentile per-packet one-way delay: 54.132 ms

Loss rate: 0.01%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-01-09 03:33:44

End at: 2018-01-09 03:34:14

Below is generated by plot.py at 2018-01-09 05:59:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 41.03 Mbit/s

95th percentile per-packet one-way delay: 53.948 ms

Loss rate: 0.03%

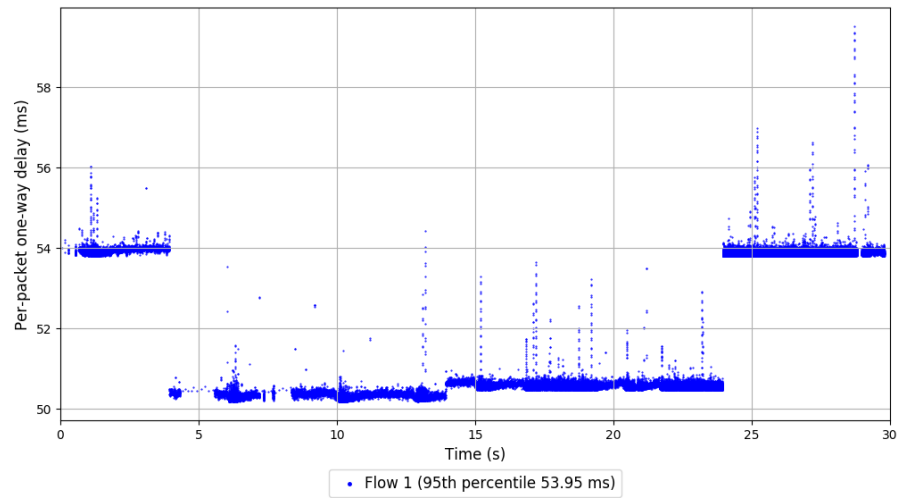
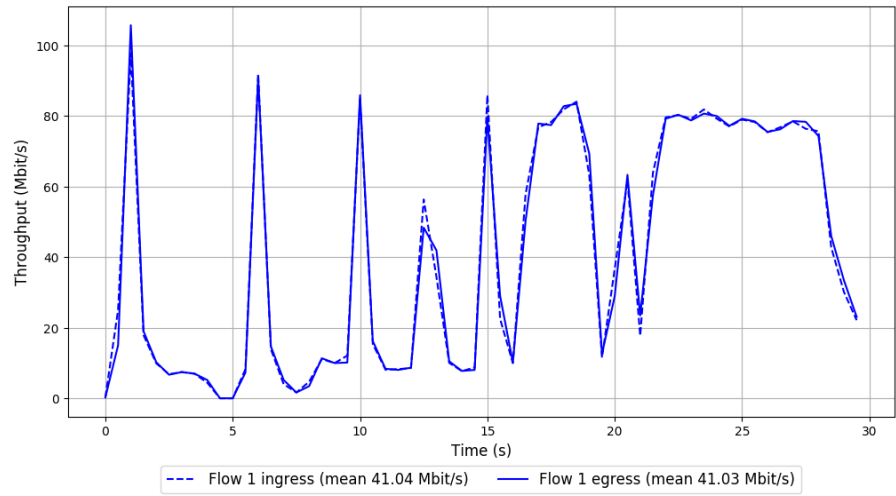
-- Flow 1:

Average throughput: 41.03 Mbit/s

95th percentile per-packet one-way delay: 53.948 ms

Loss rate: 0.03%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-01-09 03:44:56

End at: 2018-01-09 03:45:26

Below is generated by plot.py at 2018-01-09 05:59:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 42.55 Mbit/s

95th percentile per-packet one-way delay: 50.577 ms

Loss rate: 0.00%

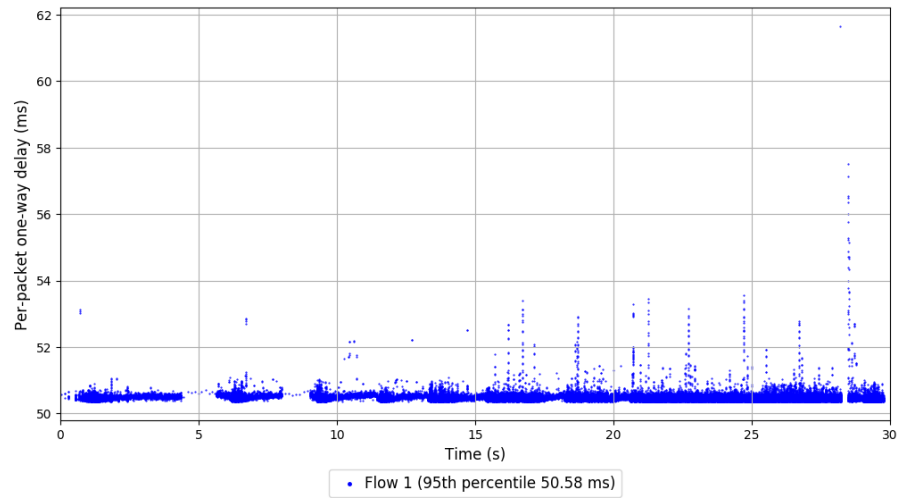
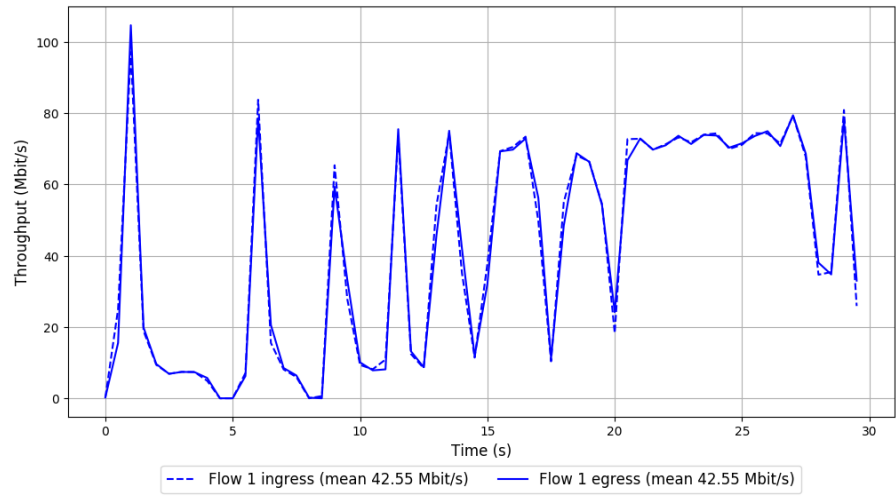
-- Flow 1:

Average throughput: 42.55 Mbit/s

95th percentile per-packet one-way delay: 50.577 ms

Loss rate: 0.00%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-01-09 03:56:10

End at: 2018-01-09 03:56:40

Below is generated by plot.py at 2018-01-09 05:59:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 38.19 Mbit/s

95th percentile per-packet one-way delay: 53.740 ms

Loss rate: 0.01%

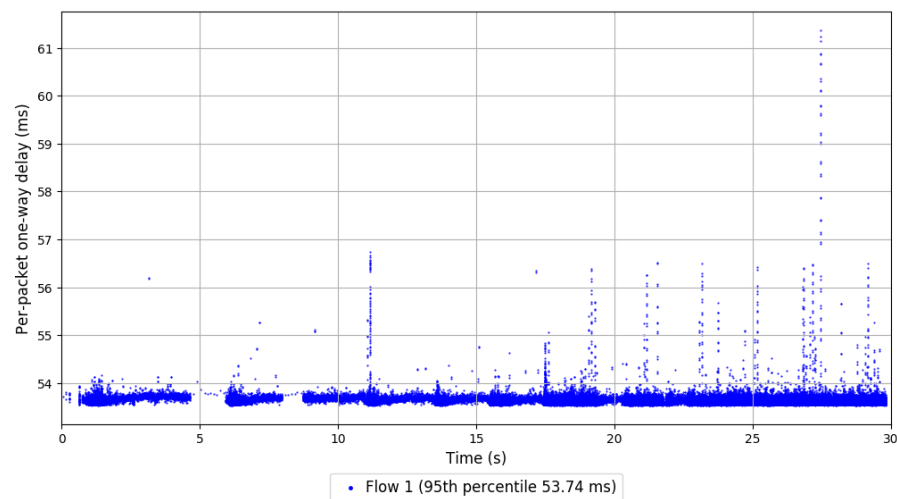
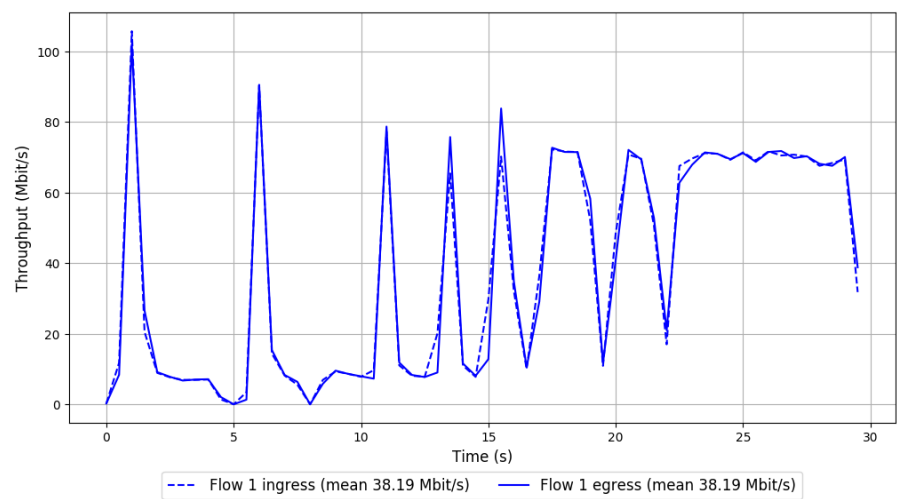
-- Flow 1:

Average throughput: 38.19 Mbit/s

95th percentile per-packet one-way delay: 53.740 ms

Loss rate: 0.01%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-01-09 04:07:22

End at: 2018-01-09 04:07:52

Below is generated by plot.py at 2018-01-09 05:59:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 46.32 Mbit/s

95th percentile per-packet one-way delay: 53.206 ms

Loss rate: 0.00%

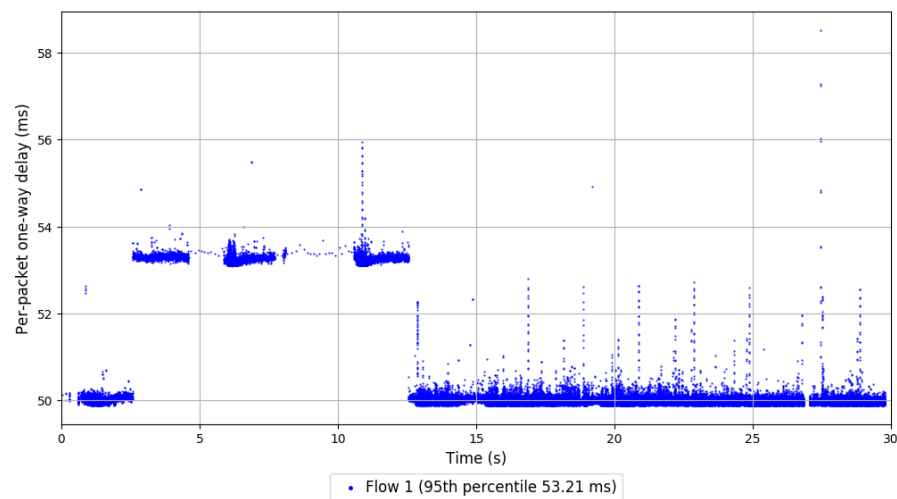
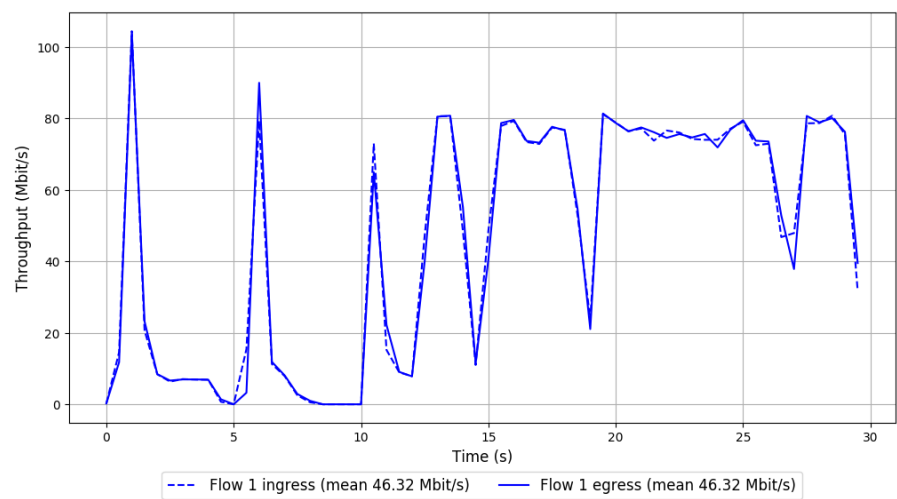
-- Flow 1:

Average throughput: 46.32 Mbit/s

95th percentile per-packet one-way delay: 53.206 ms

Loss rate: 0.00%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-01-09 04:18:39

End at: 2018-01-09 04:19:09

Below is generated by plot.py at 2018-01-09 05:59:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 67.78 Mbit/s

95th percentile per-packet one-way delay: 53.530 ms

Loss rate: 0.00%

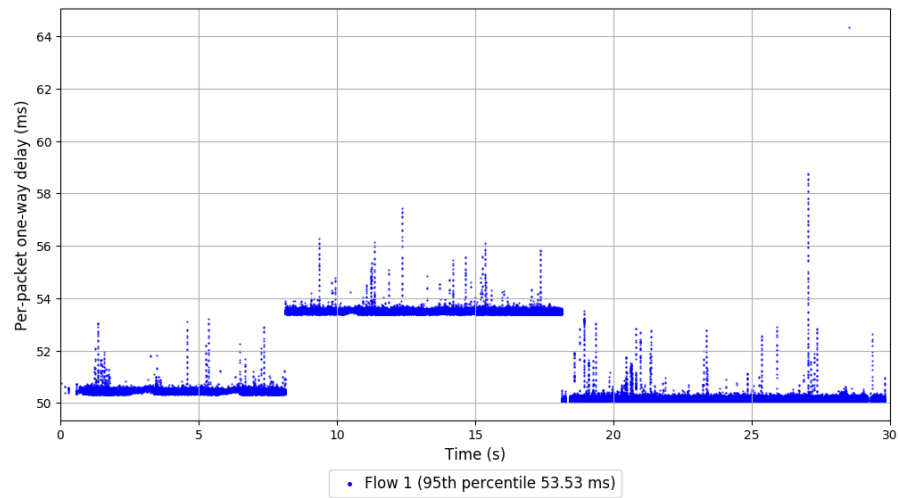
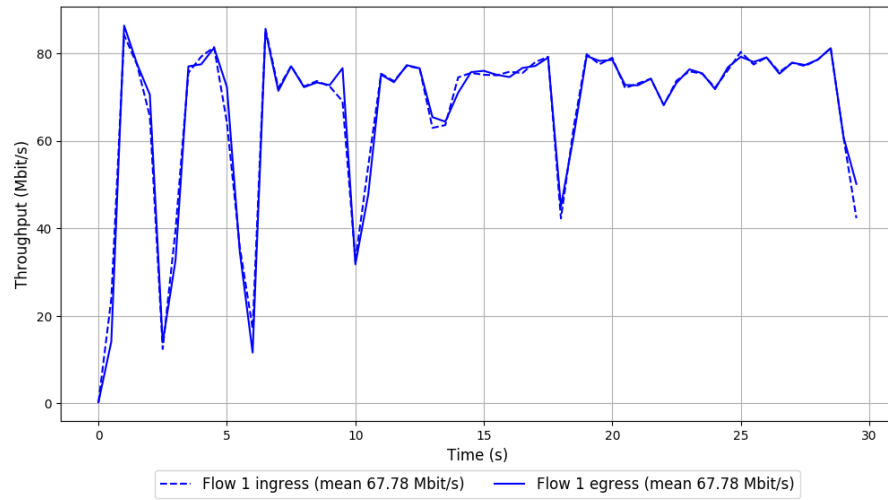
-- Flow 1:

Average throughput: 67.78 Mbit/s

95th percentile per-packet one-way delay: 53.530 ms

Loss rate: 0.00%

Run 9: Report of QUIC Cubic — Data Link

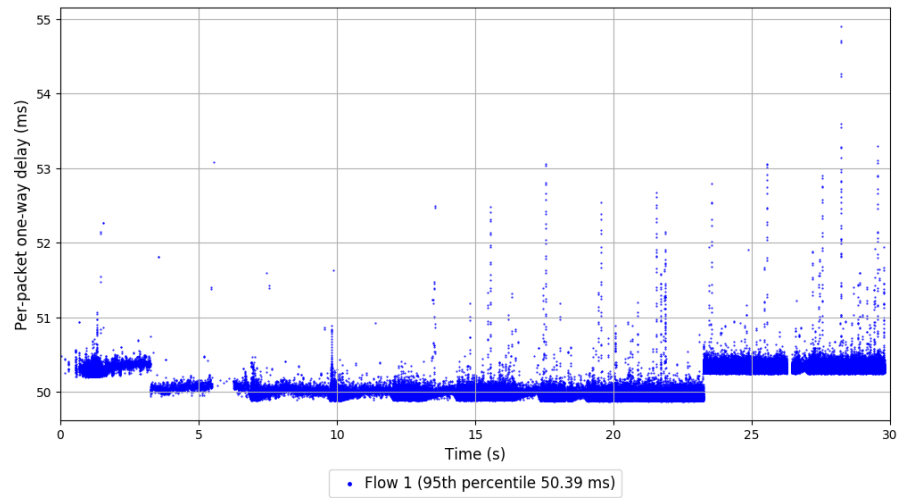
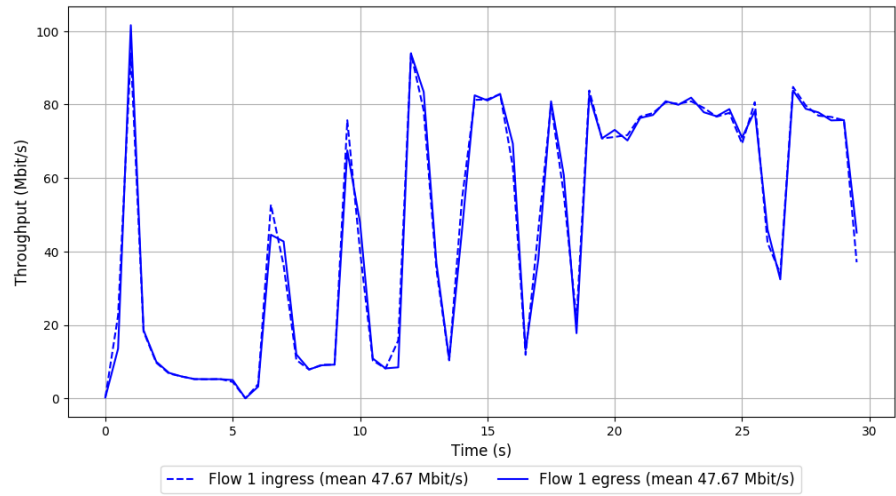


```
Run 10: Statistics of QUIC Cubic

Start at: 2018-01-09 04:30:21
End at: 2018-01-09 04:30:51

# Below is generated by plot.py at 2018-01-09 05:59:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 47.67 Mbit/s
95th percentile per-packet one-way delay: 50.389 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 47.67 Mbit/s
95th percentile per-packet one-way delay: 50.389 ms
Loss rate: 0.00%
```

Run 10: Report of QUIC Cubic — Data Link

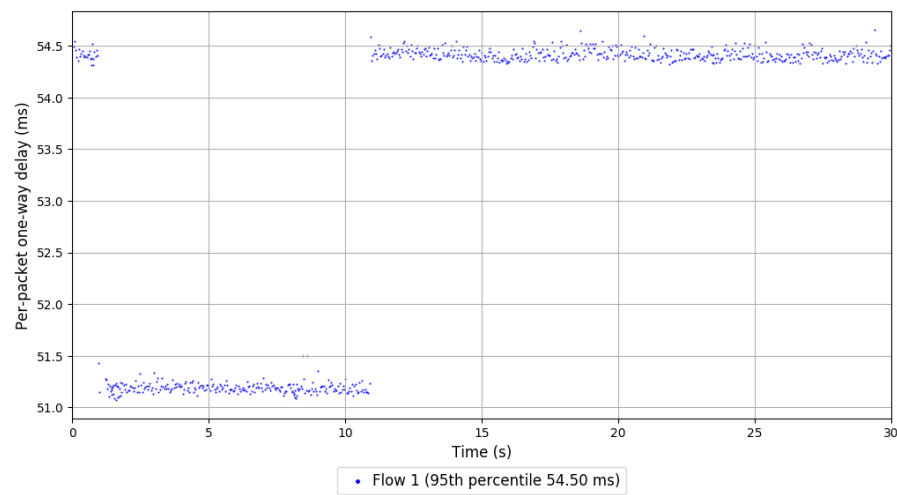
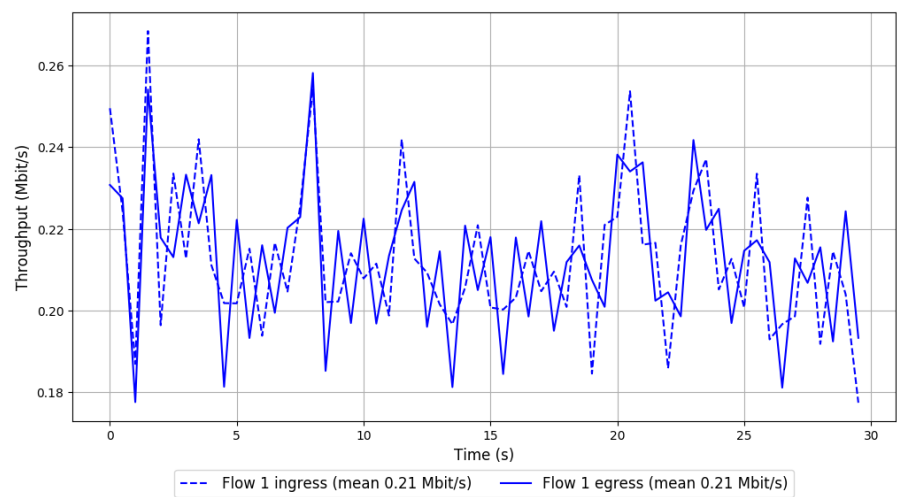


```
Run 1: Statistics of SCReAM

Start at: 2018-01-09 02:46:24
End at: 2018-01-09 02:46:54

# Below is generated by plot.py at 2018-01-09 05:59:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 54.502 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 54.502 ms
Loss rate: 0.00%
```

Run 1: Report of SCRaM — Data Link

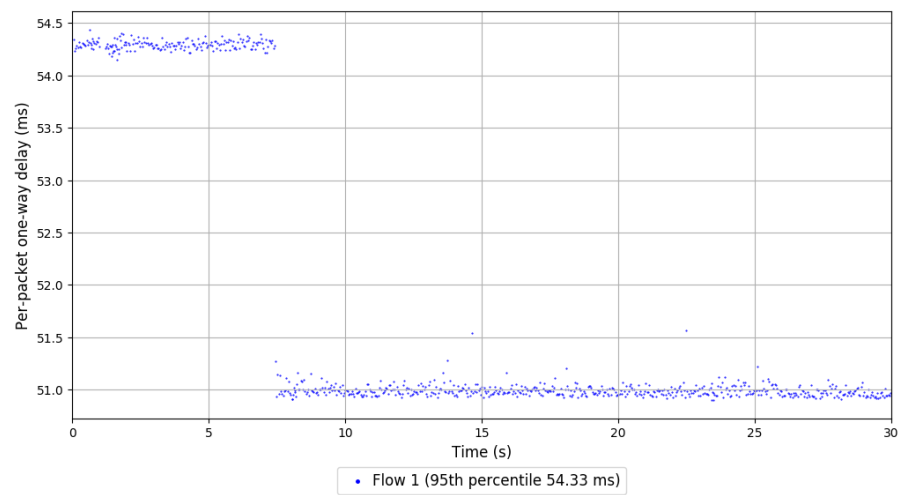
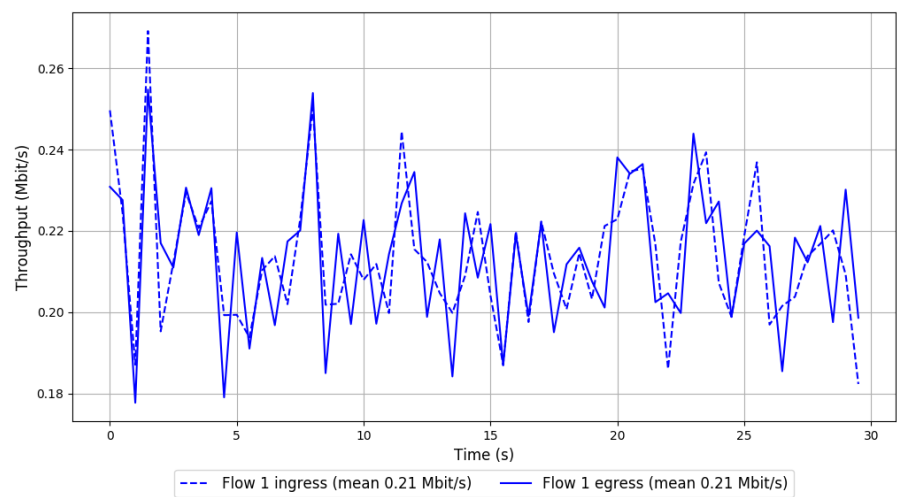


```
Run 2: Statistics of SCReAM

Start at: 2018-01-09 02:57:47
End at: 2018-01-09 02:58:17

# Below is generated by plot.py at 2018-01-09 05:59:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 54.328 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 54.328 ms
Loss rate: 0.00%
```

Run 2: Report of SReAM — Data Link

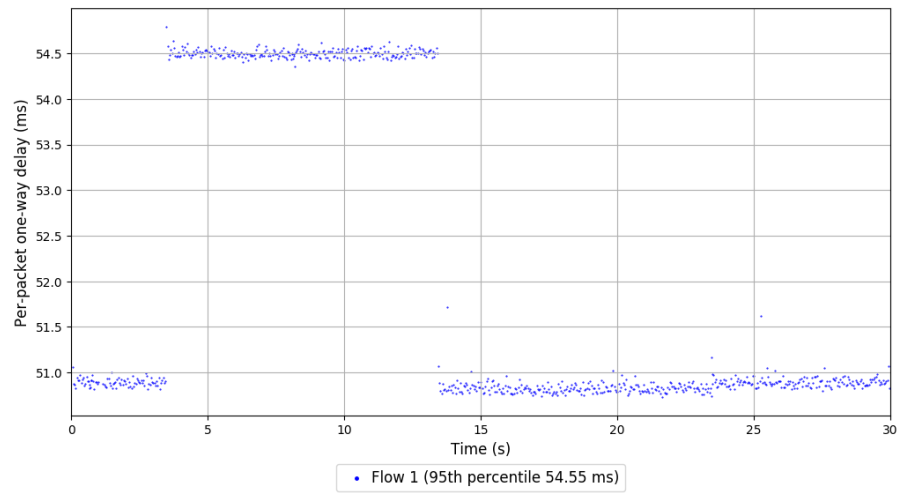
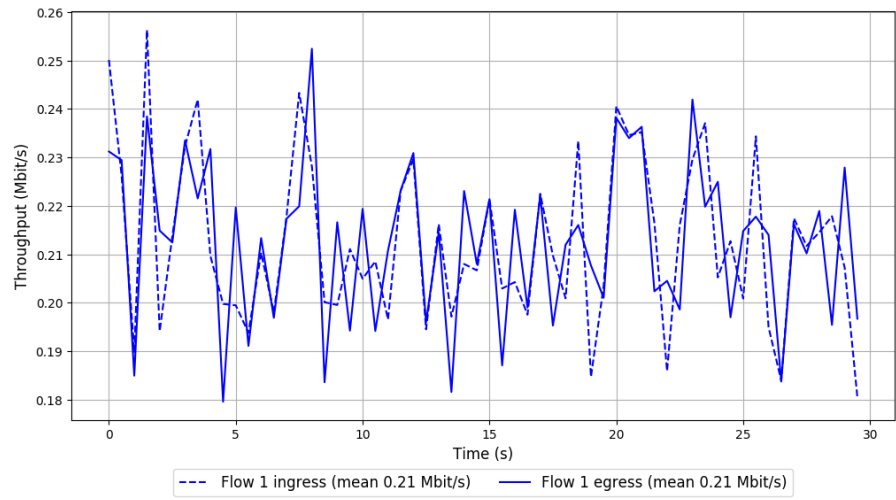


```
Run 3: Statistics of SCReAM

Start at: 2018-01-09 03:09:11
End at: 2018-01-09 03:09:41

# Below is generated by plot.py at 2018-01-09 05:59:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 54.550 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 54.550 ms
Loss rate: 0.00%
```


Run 3: Report of SReAM — Data Link

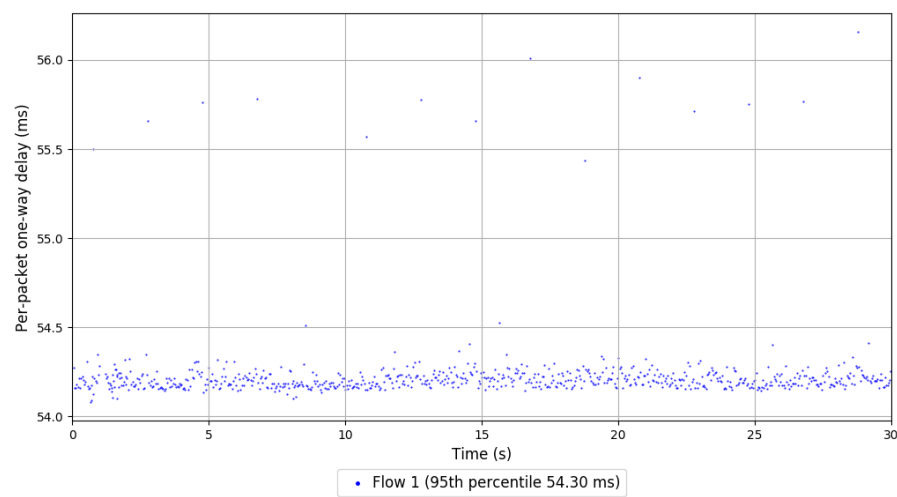
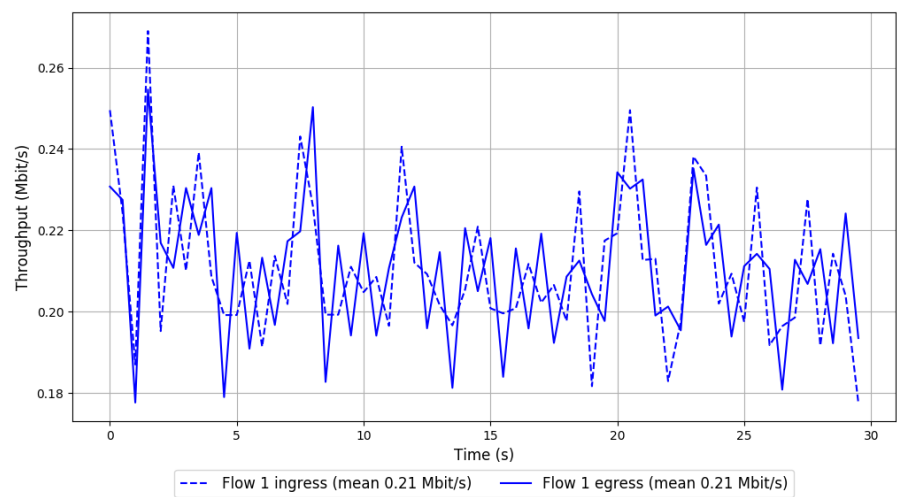


```
Run 4: Statistics of SCReAM

Start at: 2018-01-09 03:20:32
End at: 2018-01-09 03:21:02

# Below is generated by plot.py at 2018-01-09 05:59:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 54.305 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 54.305 ms
Loss rate: 0.00%
```

Run 4: Report of SReAM — Data Link

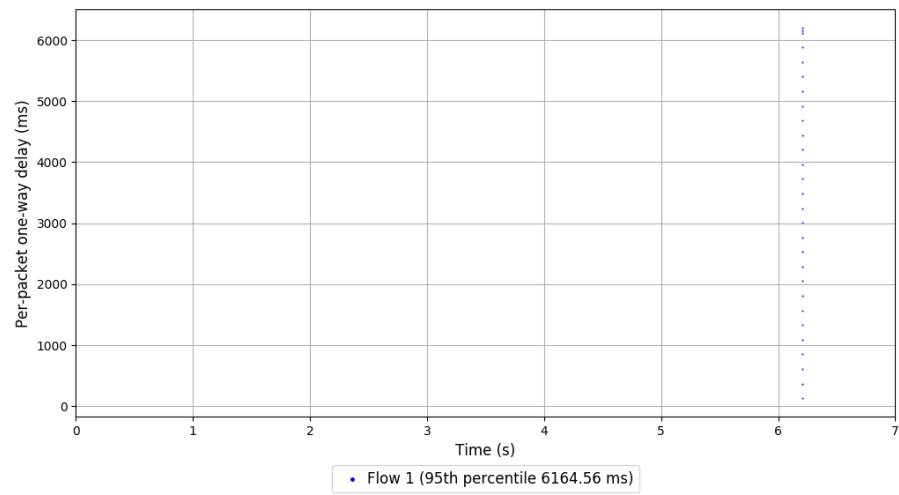
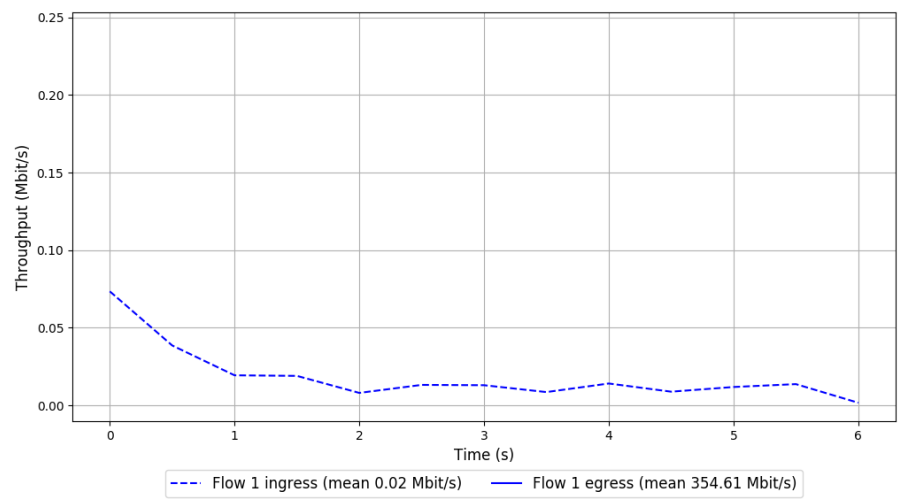


Run 5: Statistics of SReAM

Start at: 2018-01-09 03:31:46

End at: 2018-01-09 03:32:16

Run 5: Report of SReAM — Data Link

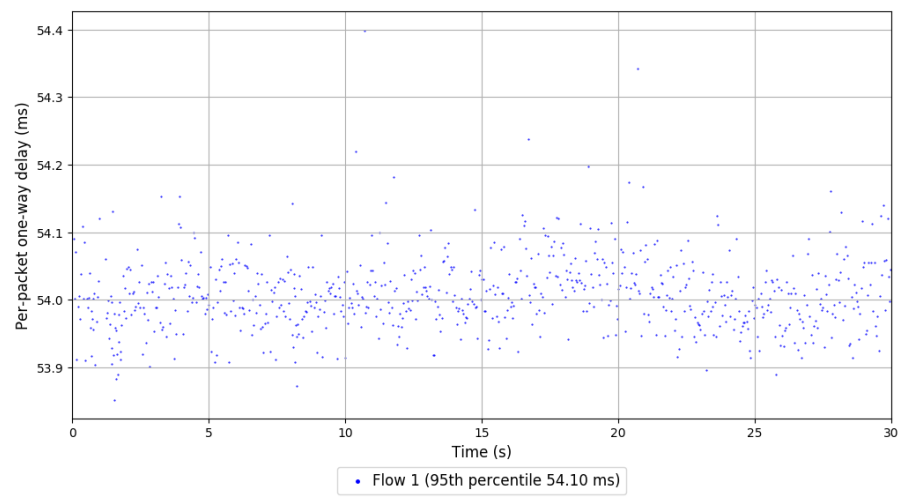
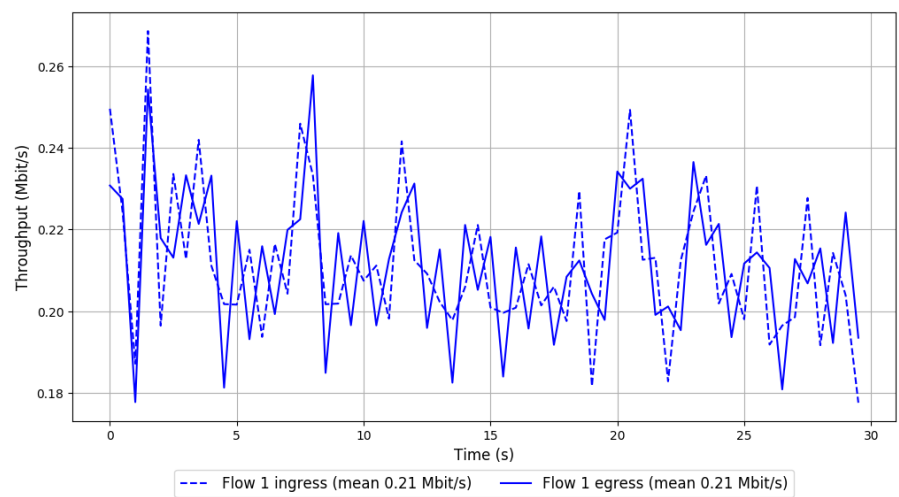


```
Run 6: Statistics of SCReAM

Start at: 2018-01-09 03:42:57
End at: 2018-01-09 03:43:27

# Below is generated by plot.py at 2018-01-09 05:59:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 54.103 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 54.103 ms
Loss rate: 0.00%
```

Run 6: Report of SReAM — Data Link

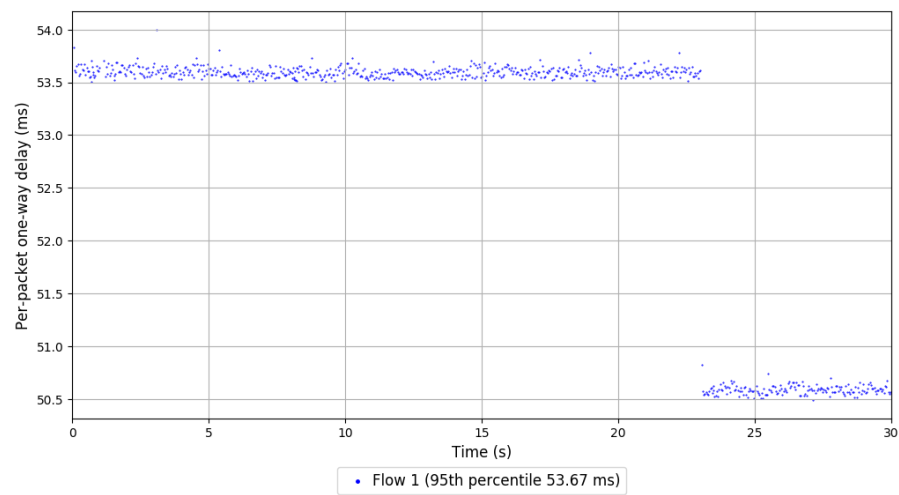
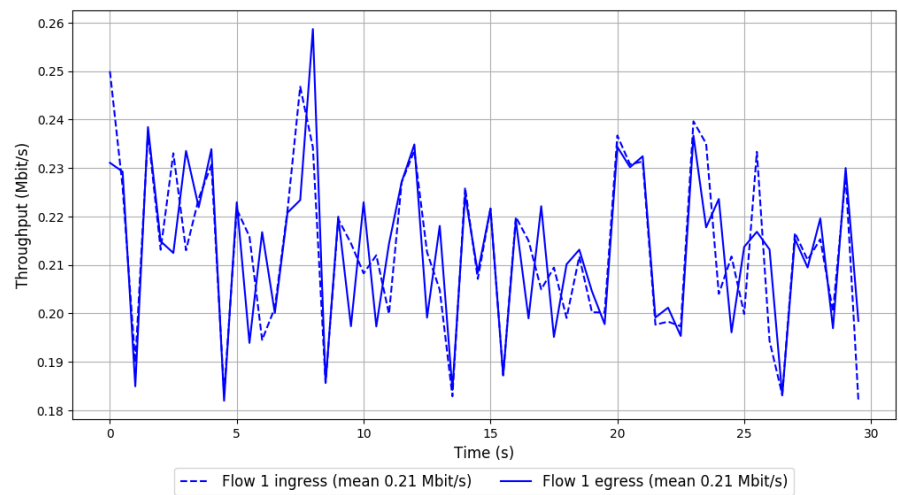


```
Run 7: Statistics of SCReAM

Start at: 2018-01-09 03:54:12
End at: 2018-01-09 03:54:42

# Below is generated by plot.py at 2018-01-09 05:59:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.671 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.671 ms
Loss rate: 0.00%
```


Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-01-09 04:05:24

End at: 2018-01-09 04:05:54

Below is generated by plot.py at 2018-01-09 05:59:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.449 ms

Loss rate: 0.00%

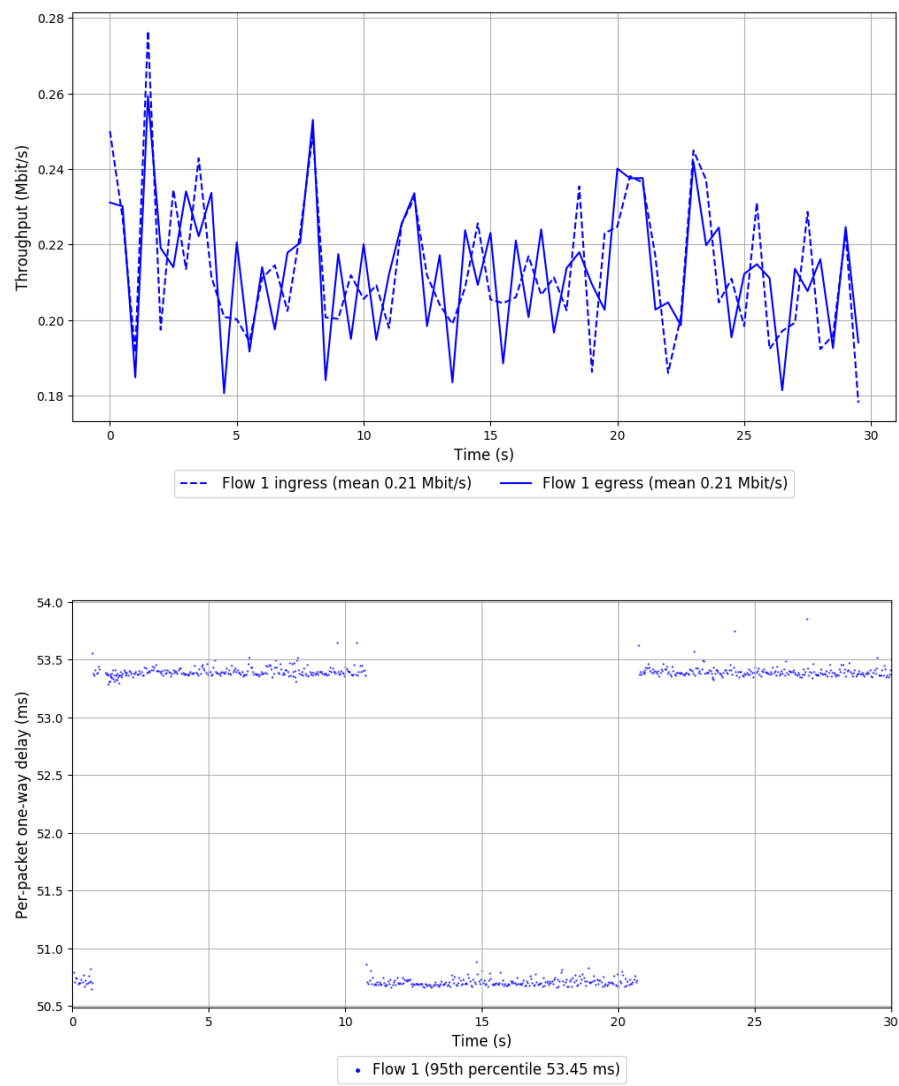
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.449 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-01-09 04:16:41

End at: 2018-01-09 04:17:11

Below is generated by plot.py at 2018-01-09 05:59:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.745 ms

Loss rate: 0.00%

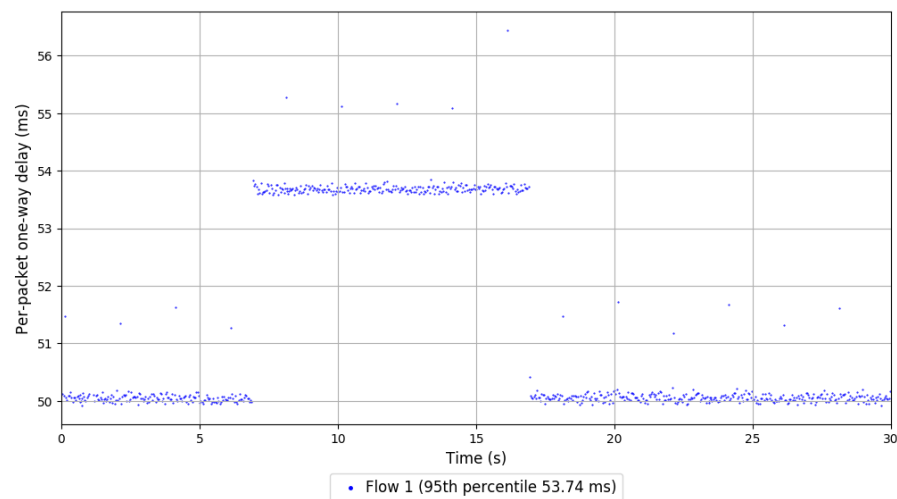
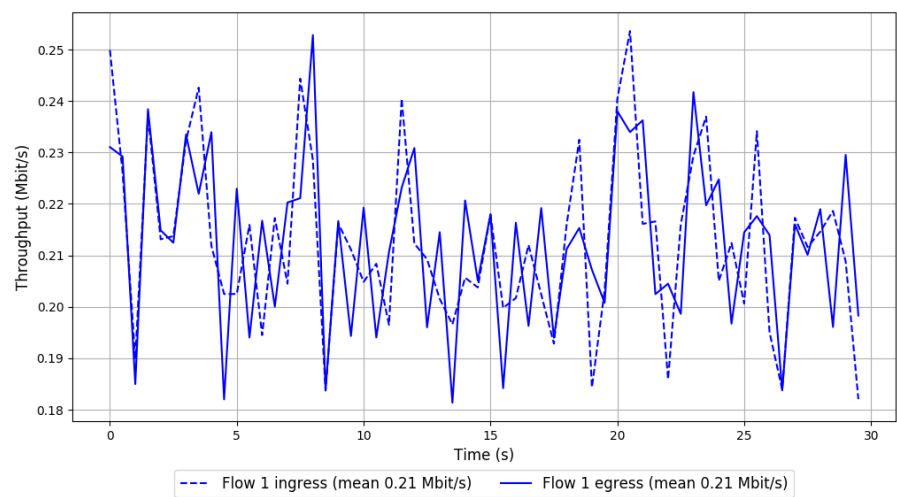
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.745 ms

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link

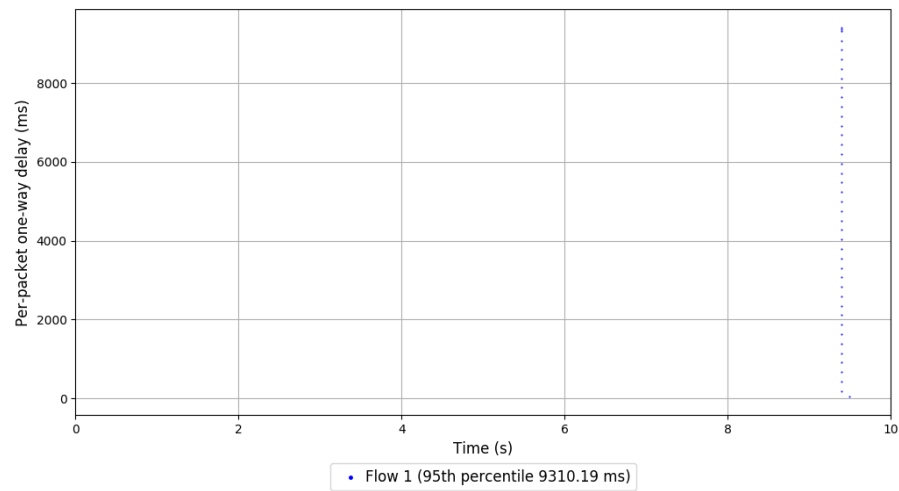
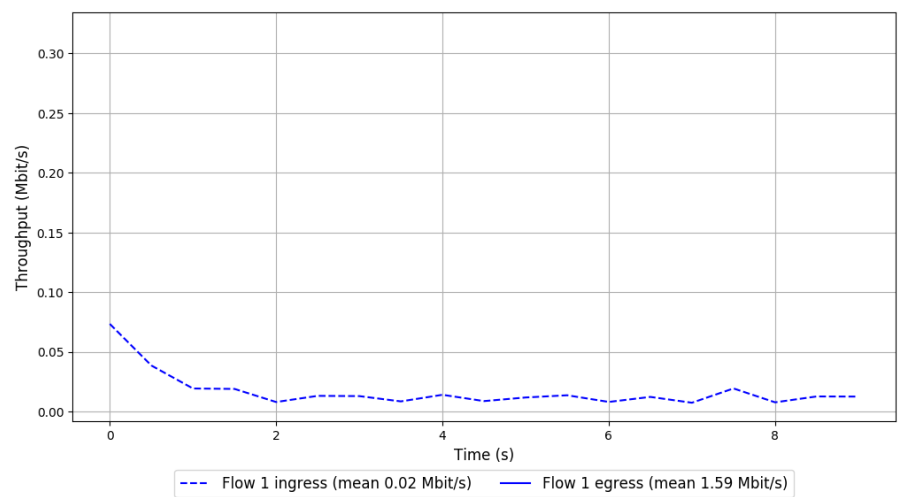


Run 10: Statistics of SCReAM

Start at: 2018-01-09 04:28:23

End at: 2018-01-09 04:28:53

Run 10: Report of SReAM — Data Link

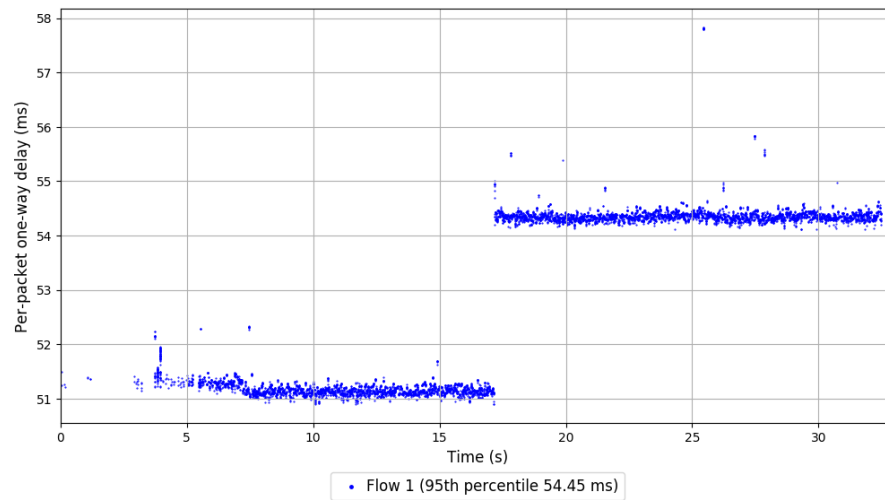
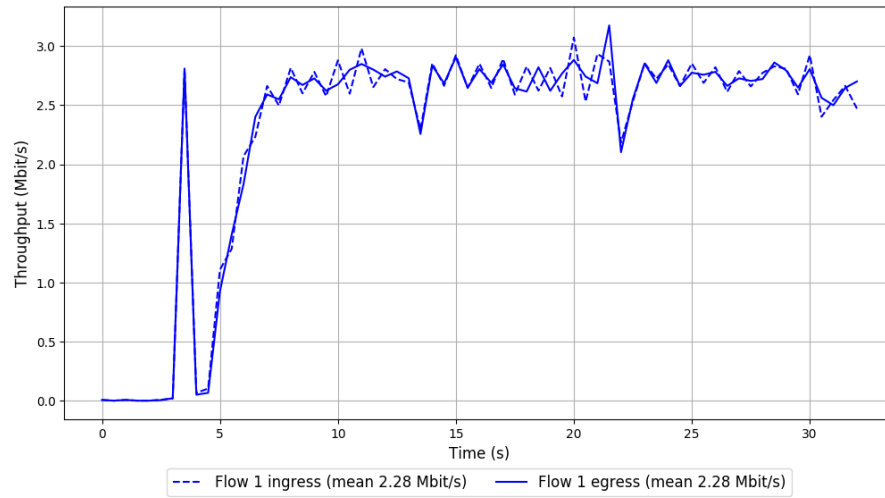


```
Run 1: Statistics of WebRTC media

Start at: 2018-01-09 02:51:00
End at: 2018-01-09 02:51:30

# Below is generated by plot.py at 2018-01-09 05:59:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.28 Mbit/s
95th percentile per-packet one-way delay: 54.454 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.28 Mbit/s
95th percentile per-packet one-way delay: 54.454 ms
Loss rate: 0.00%
```


Run 1: Report of WebRTC media — Data Link

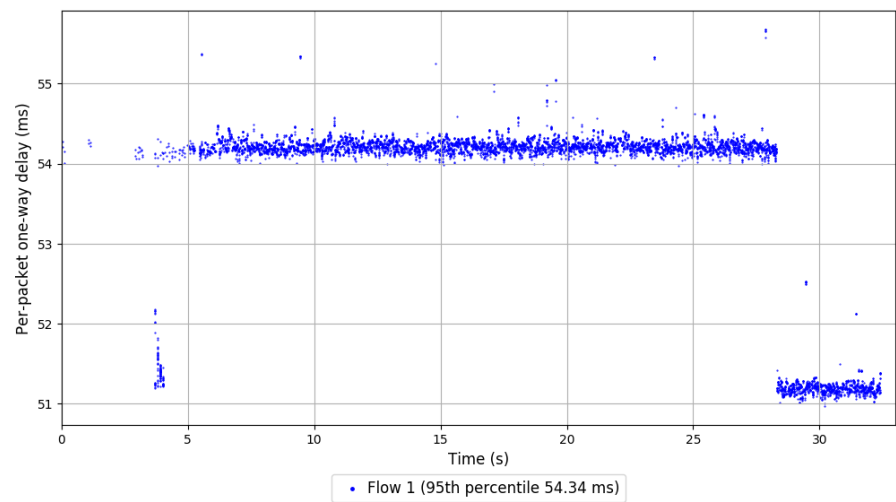
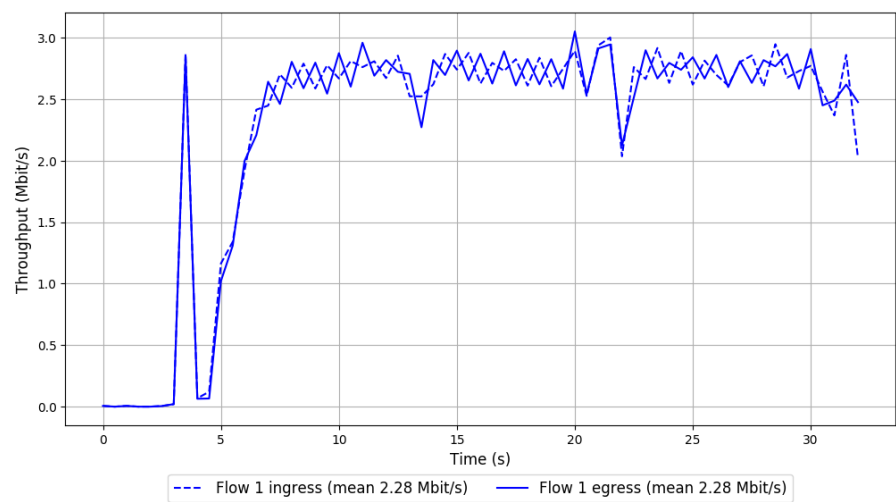


```
Run 2: Statistics of WebRTC media

Start at: 2018-01-09 03:02:22
End at: 2018-01-09 03:02:52

# Below is generated by plot.py at 2018-01-09 05:59:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.28 Mbit/s
95th percentile per-packet one-way delay: 54.340 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.28 Mbit/s
95th percentile per-packet one-way delay: 54.340 ms
Loss rate: 0.00%
```

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-01-09 03:13:43

End at: 2018-01-09 03:14:13

Below is generated by plot.py at 2018-01-09 05:59:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 51.185 ms

Loss rate: 0.00%

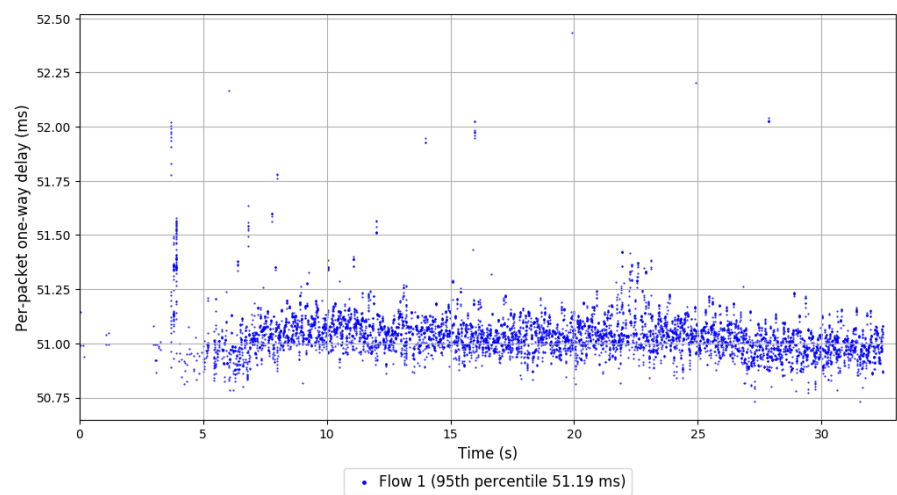
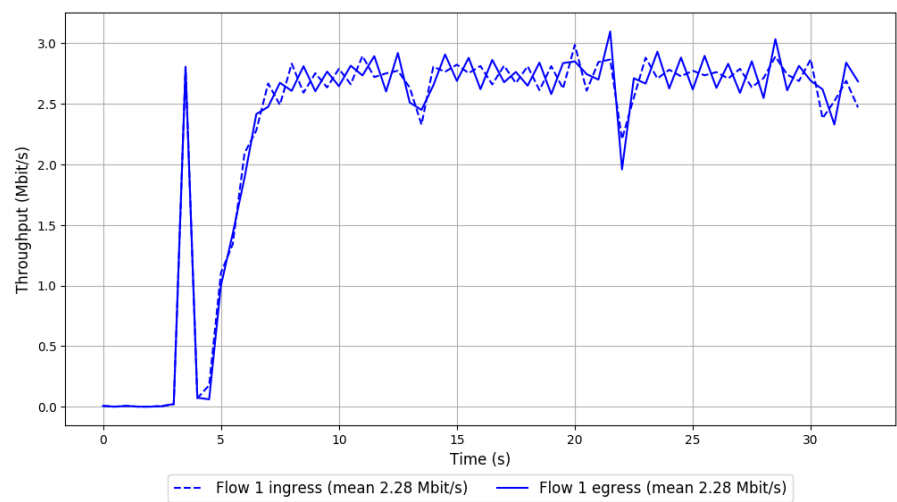
-- Flow 1:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 51.185 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-01-09 03:25:07

End at: 2018-01-09 03:25:37

Below is generated by plot.py at 2018-01-09 05:59:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 54.303 ms

Loss rate: 0.00%

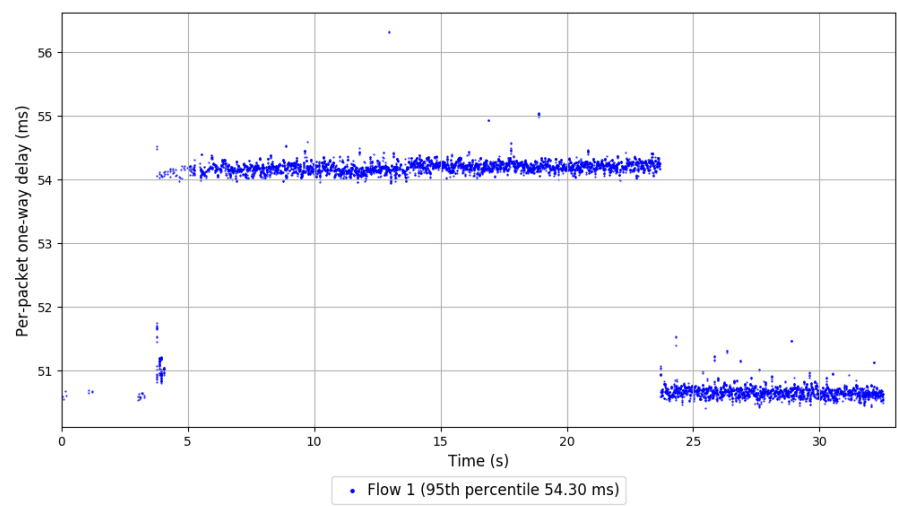
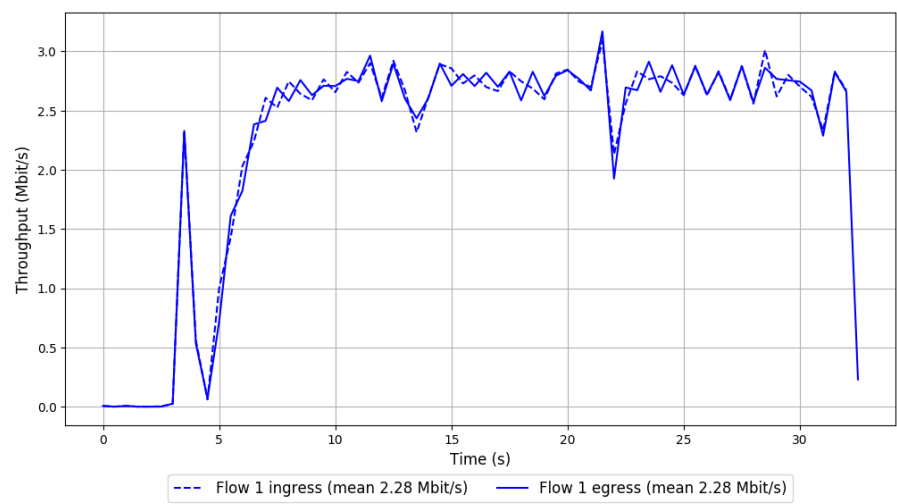
-- Flow 1:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 54.303 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-01-09 03:36:18

End at: 2018-01-09 03:36:48

Below is generated by plot.py at 2018-01-09 05:59:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 54.217 ms

Loss rate: 0.00%

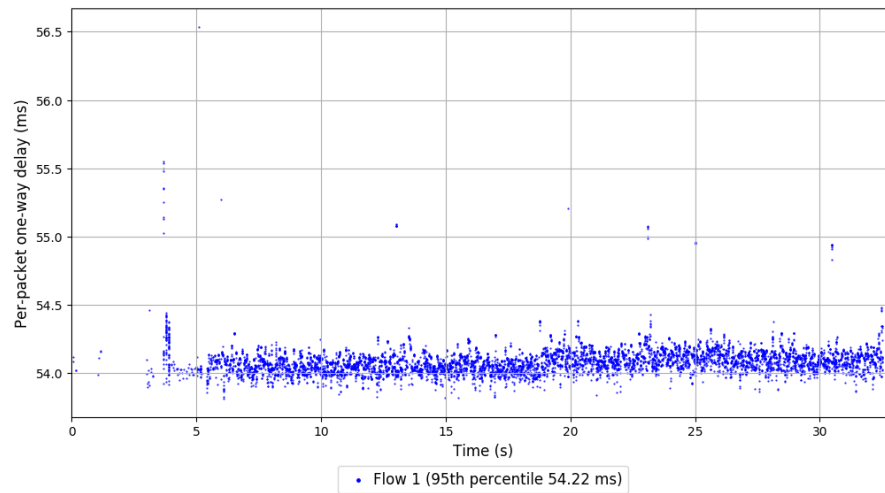
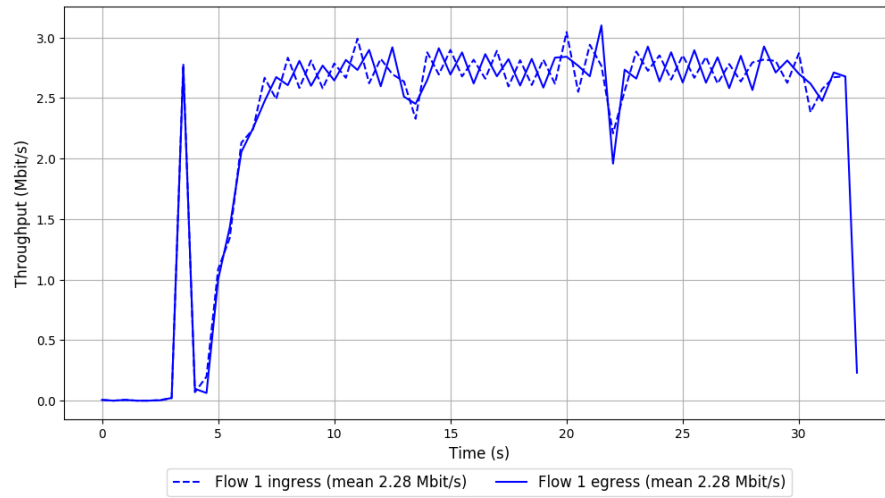
-- Flow 1:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 54.217 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-01-09 03:47:31

End at: 2018-01-09 03:48:01

Below is generated by plot.py at 2018-01-09 05:59:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.27 Mbit/s

95th percentile per-packet one-way delay: 54.097 ms

Loss rate: 0.00%

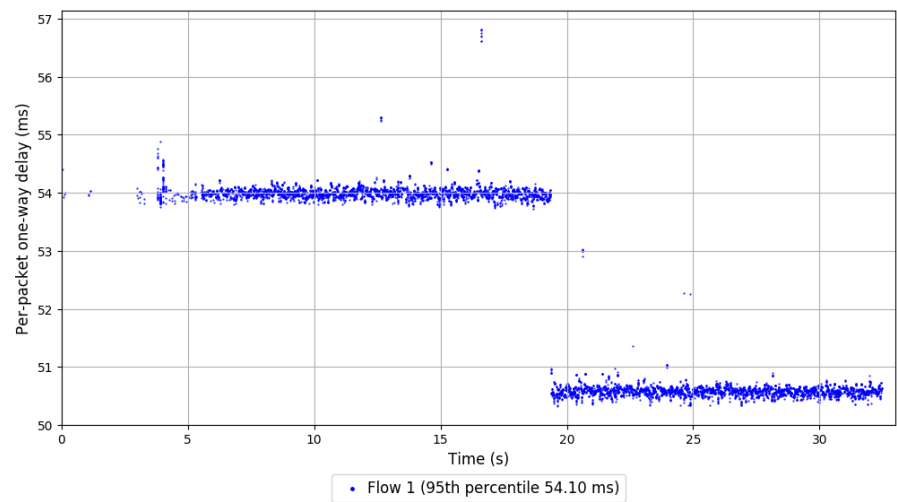
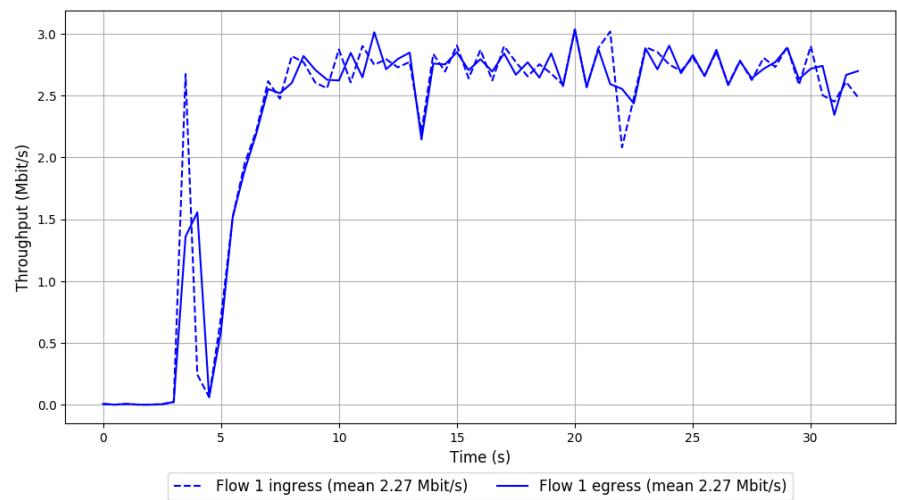
-- Flow 1:

Average throughput: 2.27 Mbit/s

95th percentile per-packet one-way delay: 54.097 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-01-09 03:58:31

End at: 2018-01-09 03:59:01

Below is generated by plot.py at 2018-01-09 05:59:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 53.892 ms

Loss rate: 0.00%

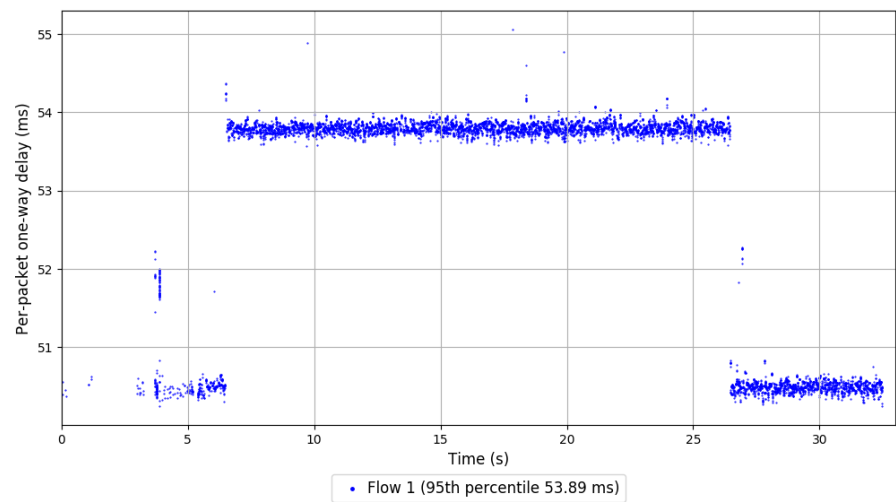
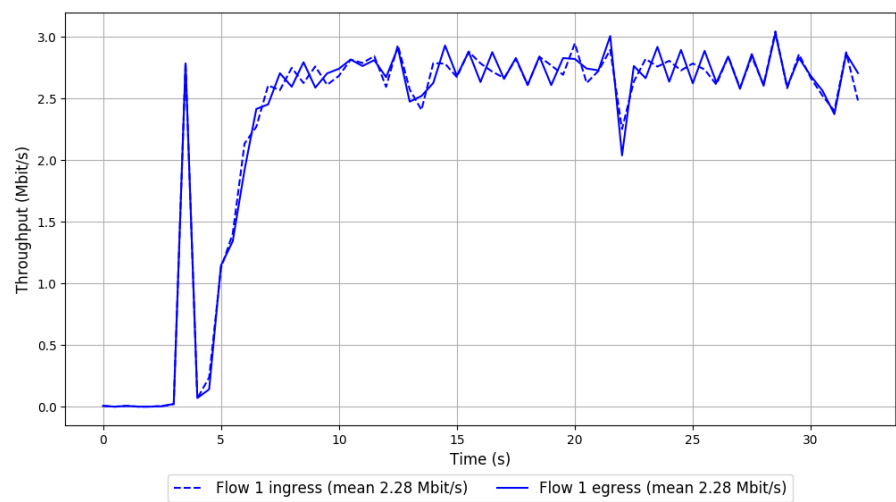
-- Flow 1:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 53.892 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-01-09 04:09:53

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

Below is generated by plot.py at 2018-01-09 05:59:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.27 Mbit/s

95th percentile per-packet one-way delay: 53.815 ms

Loss rate: 0.00%

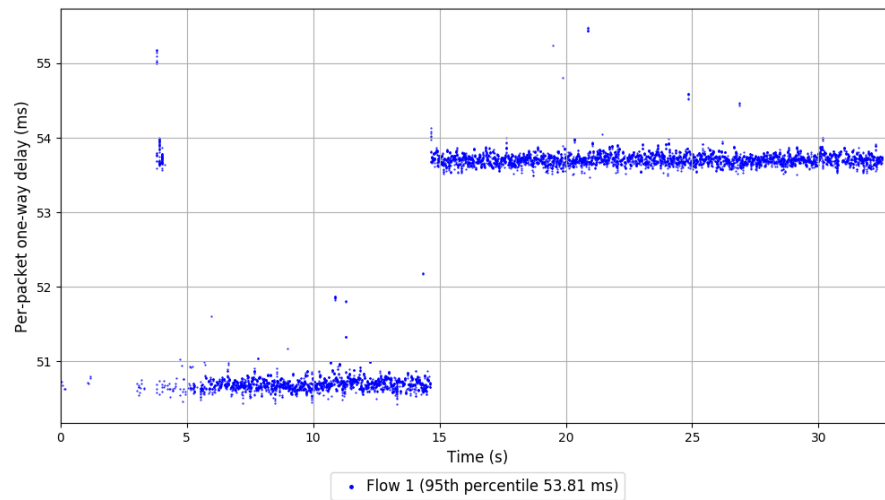
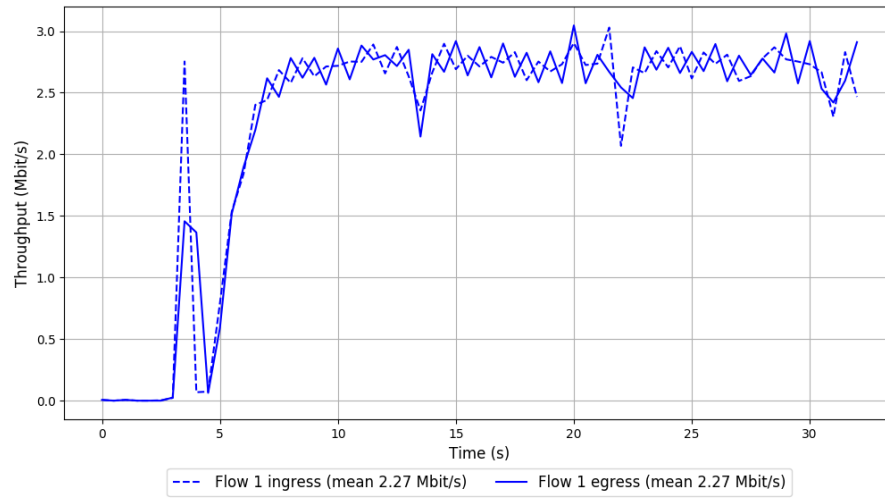
-- Flow 1:

Average throughput: 2.27 Mbit/s

95th percentile per-packet one-way delay: 53.815 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-01-09 04:21:18

End at: 2018-01-09 04:21:48

Below is generated by plot.py at 2018-01-09 05:59:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 50.777 ms

Loss rate: 0.00%

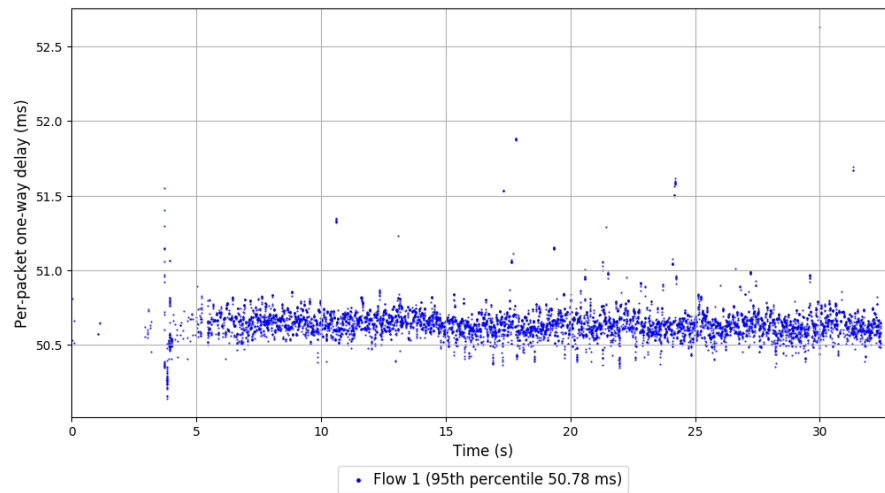
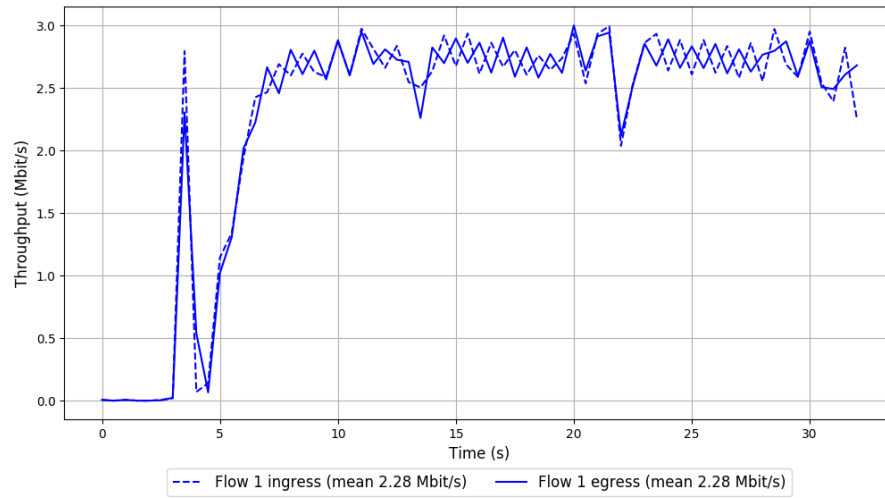
-- Flow 1:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 50.777 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-01-09 04:32:59

End at: 2018-01-09 04:33:29

Below is generated by plot.py at 2018-01-09 05:59:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 53.602 ms

Loss rate: 0.00%

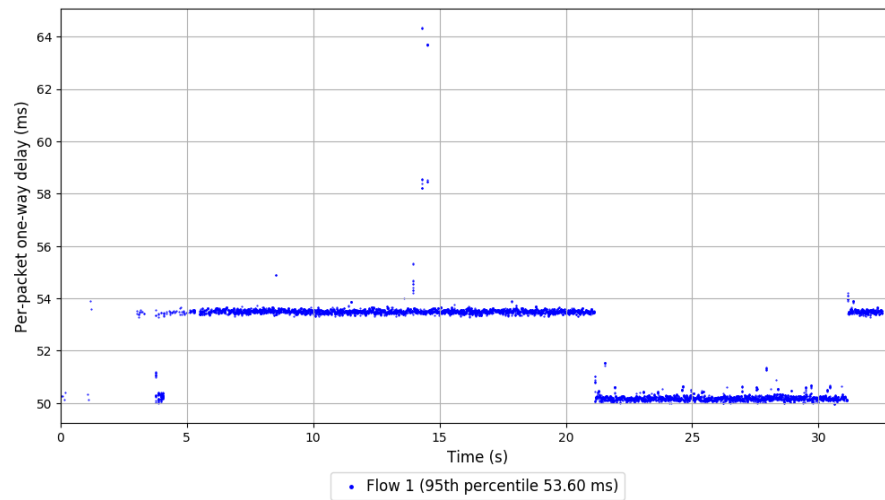
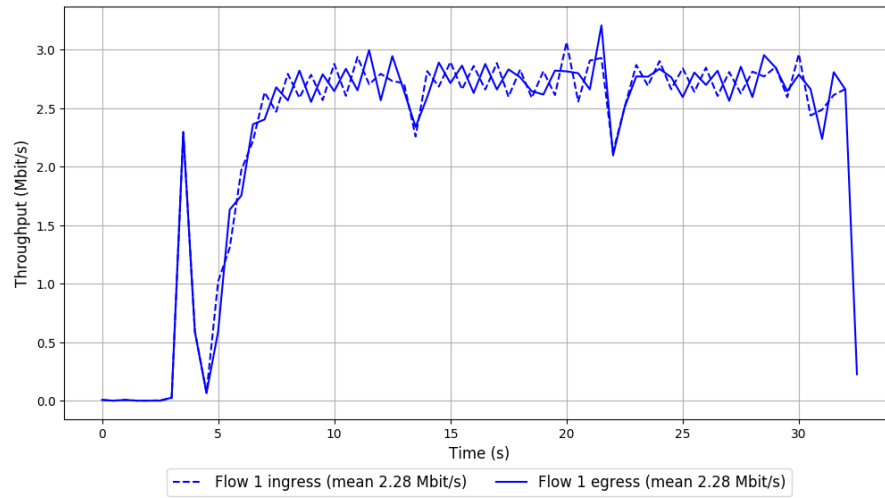
-- Flow 1:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 53.602 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2018-01-09 02:47:45

End at: 2018-01-09 02:48:15

Below is generated by plot.py at 2018-01-09 05:59:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.50 Mbit/s

95th percentile per-packet one-way delay: 55.103 ms

Loss rate: 0.45%

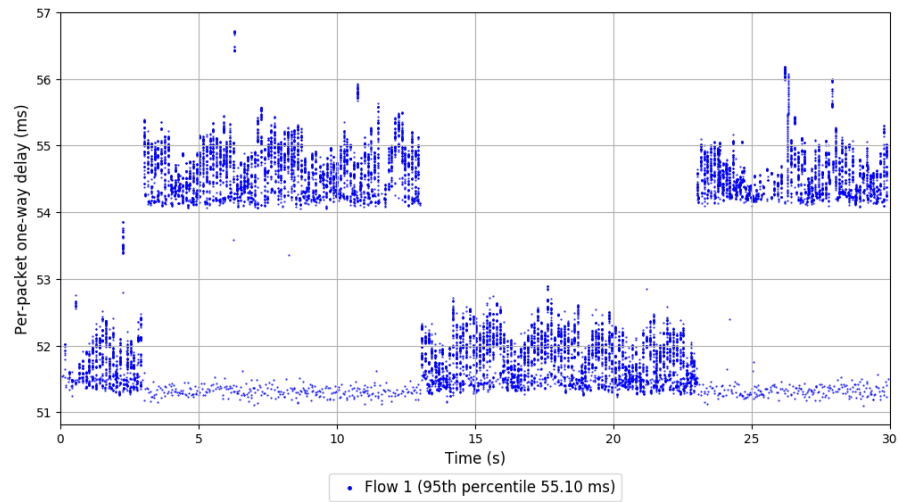
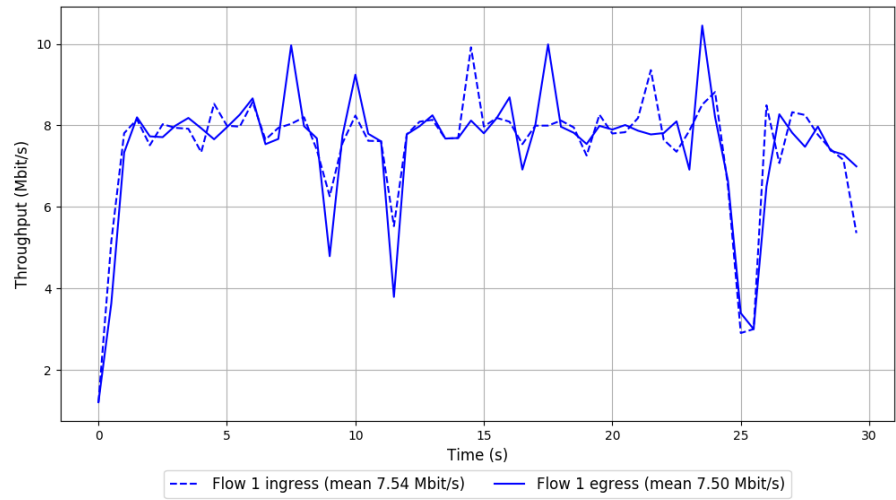
-- Flow 1:

Average throughput: 7.50 Mbit/s

95th percentile per-packet one-way delay: 55.103 ms

Loss rate: 0.45%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-01-09 02:59:08

End at: 2018-01-09 02:59:38

Below is generated by plot.py at 2018-01-09 05:59:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.77 Mbit/s

95th percentile per-packet one-way delay: 52.452 ms

Loss rate: 0.42%

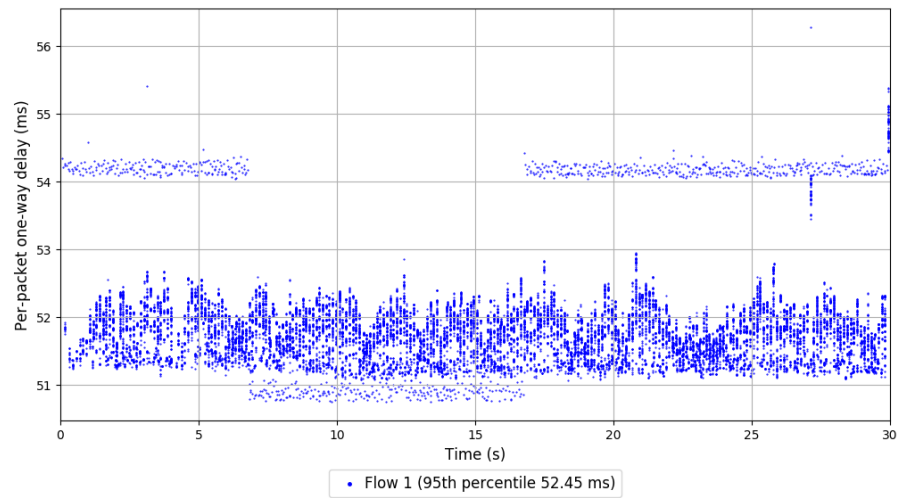
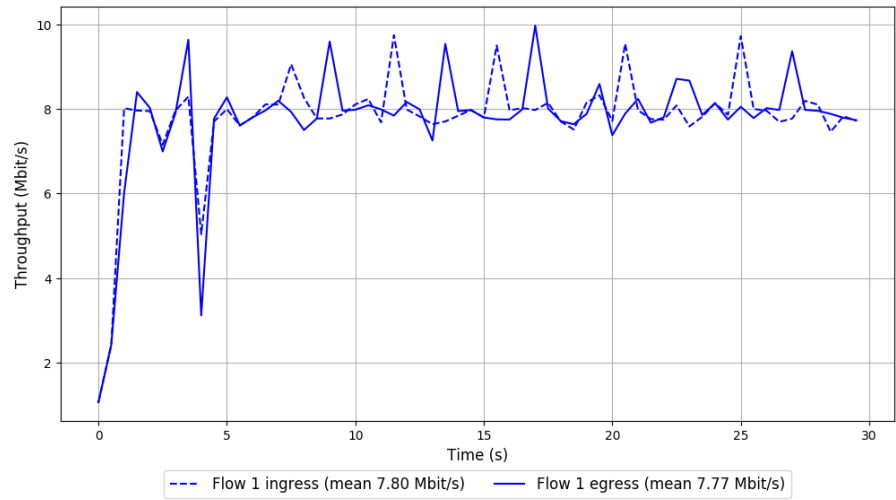
-- Flow 1:

Average throughput: 7.77 Mbit/s

95th percentile per-packet one-way delay: 52.452 ms

Loss rate: 0.42%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-01-09 03:10:32

End at: 2018-01-09 03:11:02

Below is generated by plot.py at 2018-01-09 05:59:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.84 Mbit/s

95th percentile per-packet one-way delay: 54.777 ms

Loss rate: 0.00%

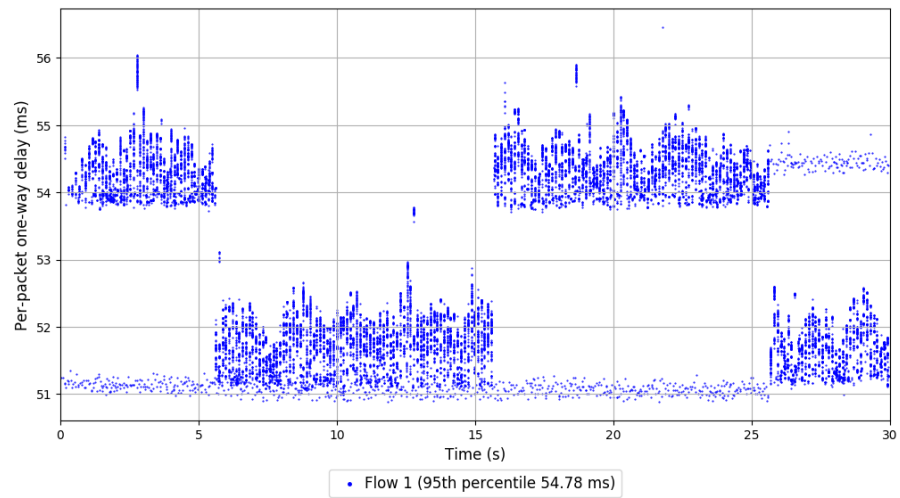
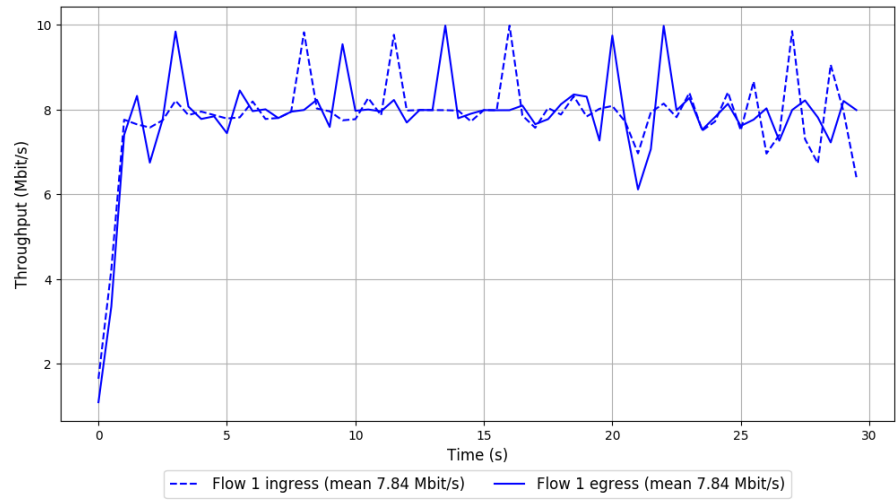
-- Flow 1:

Average throughput: 7.84 Mbit/s

95th percentile per-packet one-way delay: 54.777 ms

Loss rate: 0.00%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-01-09 03:21:53

End at: 2018-01-09 03:22:23

Below is generated by plot.py at 2018-01-09 05:59:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.80 Mbit/s

95th percentile per-packet one-way delay: 54.895 ms

Loss rate: 0.00%

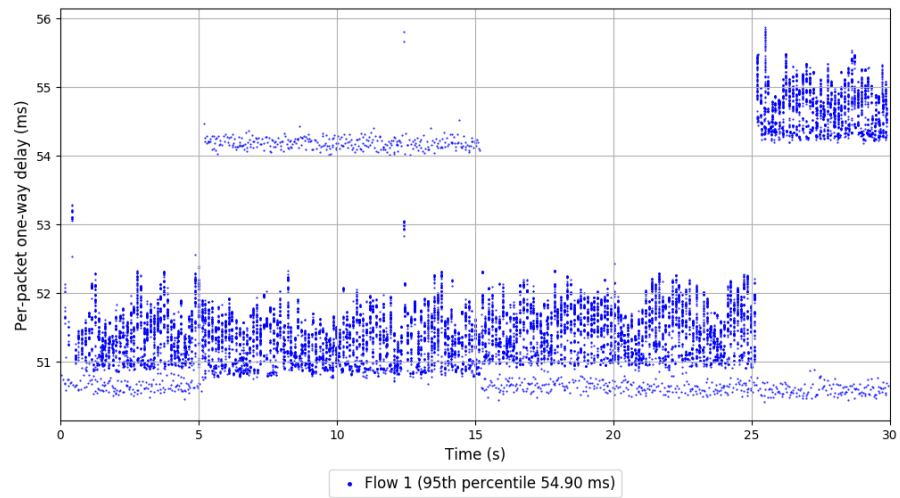
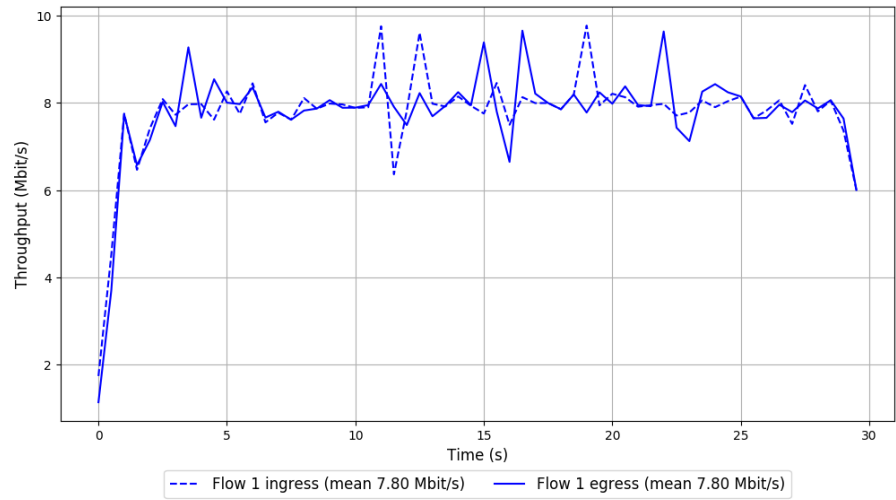
-- Flow 1:

Average throughput: 7.80 Mbit/s

95th percentile per-packet one-way delay: 54.895 ms

Loss rate: 0.00%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-01-09 03:33:06

End at: 2018-01-09 03:33:36

Below is generated by plot.py at 2018-01-09 05:59:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.87 Mbit/s

95th percentile per-packet one-way delay: 54.022 ms

Loss rate: 0.00%

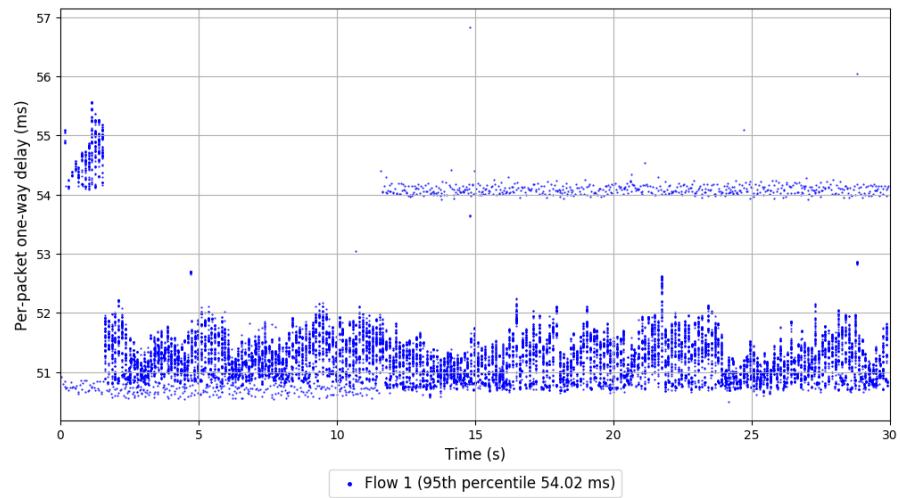
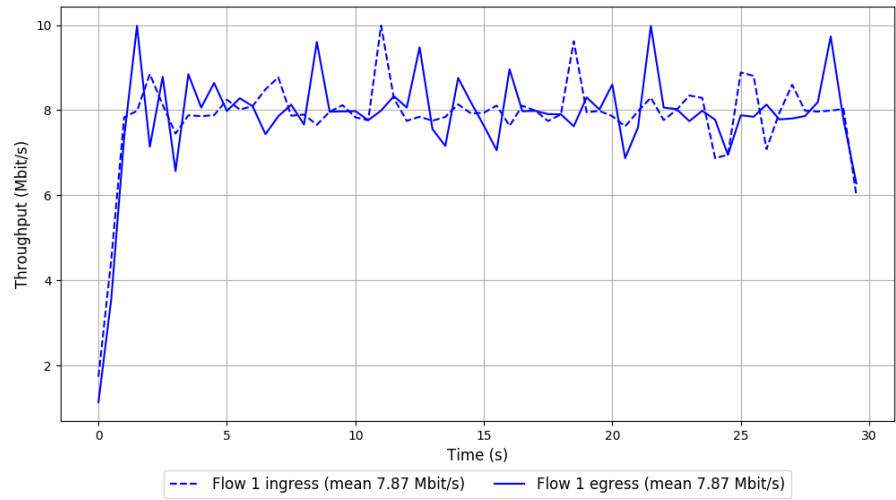
-- Flow 1:

Average throughput: 7.87 Mbit/s

95th percentile per-packet one-way delay: 54.022 ms

Loss rate: 0.00%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-01-09 03:44:19

End at: 2018-01-09 03:44:49

Below is generated by plot.py at 2018-01-09 05:59:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.59 Mbit/s

95th percentile per-packet one-way delay: 54.813 ms

Loss rate: 0.46%

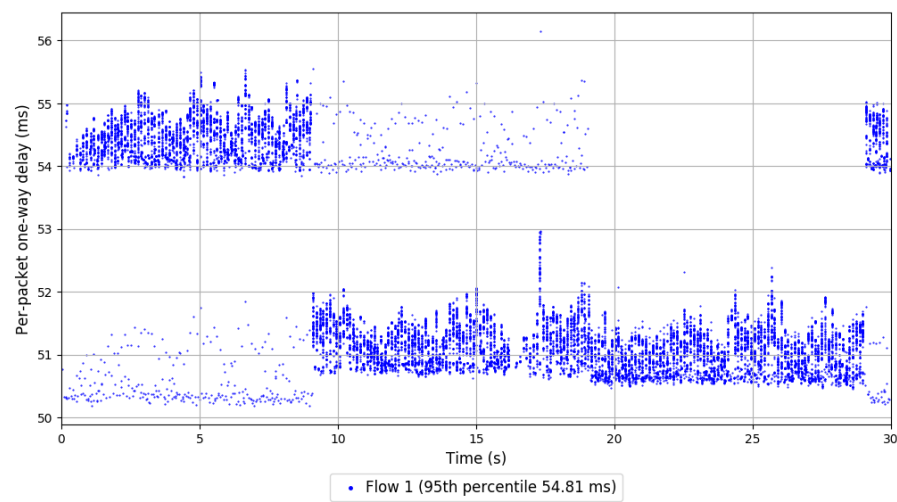
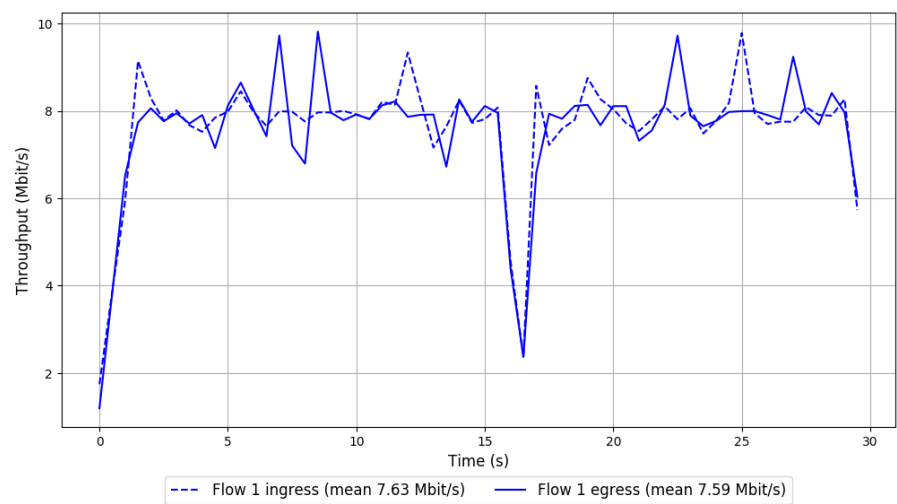
-- Flow 1:

Average throughput: 7.59 Mbit/s

95th percentile per-packet one-way delay: 54.813 ms

Loss rate: 0.46%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-01-09 03:55:32

End at: 2018-01-09 03:56:02

Below is generated by plot.py at 2018-01-09 05:59:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.65 Mbit/s

95th percentile per-packet one-way delay: 54.857 ms

Loss rate: 0.39%

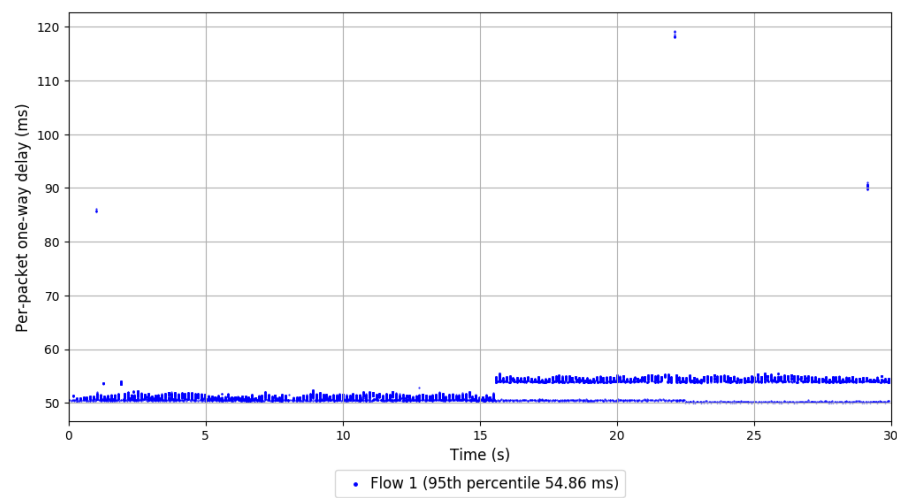
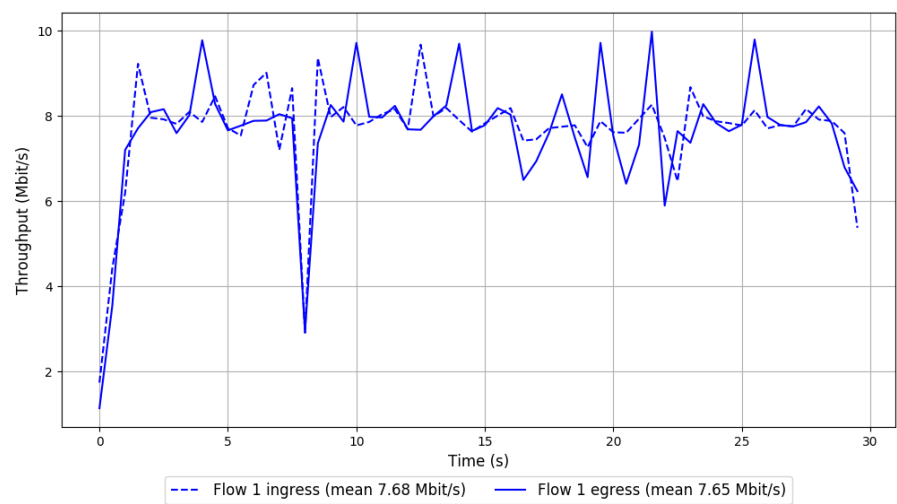
-- Flow 1:

Average throughput: 7.65 Mbit/s

95th percentile per-packet one-way delay: 54.857 ms

Loss rate: 0.39%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-01-09 04:06:44

End at: 2018-01-09 04:07:14

Below is generated by plot.py at 2018-01-09 05:59:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.77 Mbit/s

95th percentile per-packet one-way delay: 54.778 ms

Loss rate: 0.43%

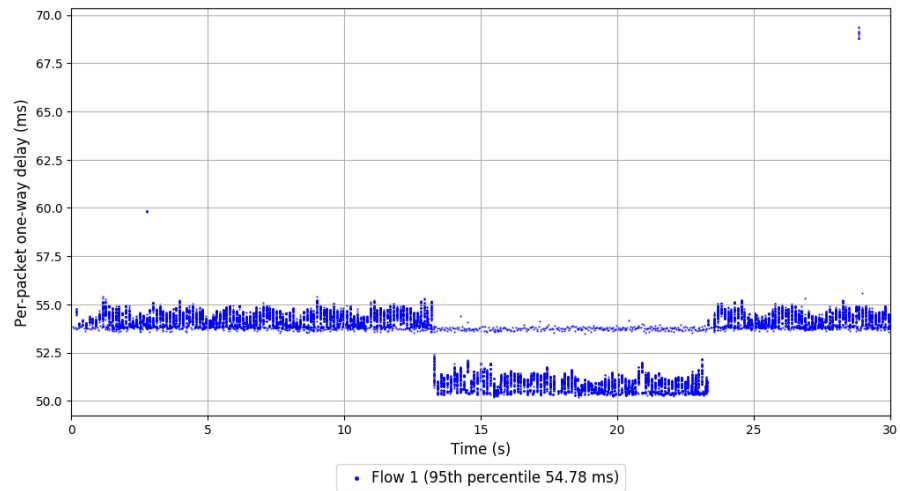
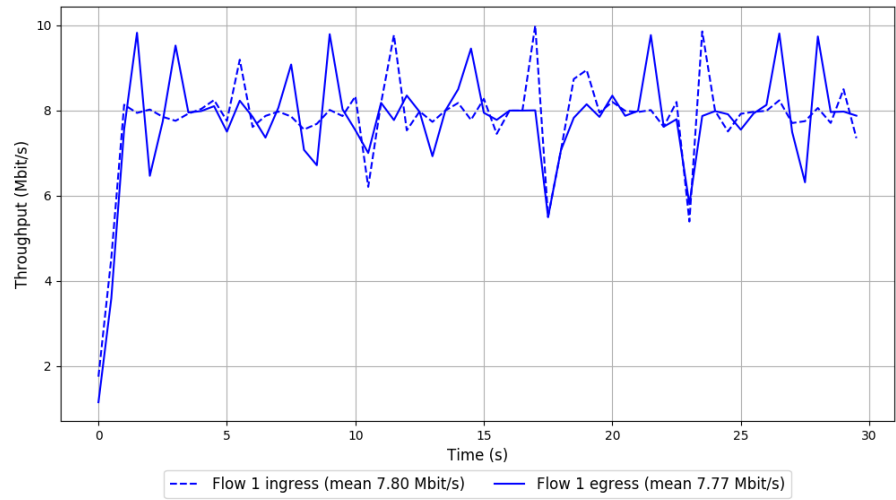
-- Flow 1:

Average throughput: 7.77 Mbit/s

95th percentile per-packet one-way delay: 54.778 ms

Loss rate: 0.43%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-01-09 04:18:02

End at: 2018-01-09 04:18:32

Below is generated by plot.py at 2018-01-09 05:59:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.78 Mbit/s

95th percentile per-packet one-way delay: 54.472 ms

Loss rate: 0.43%

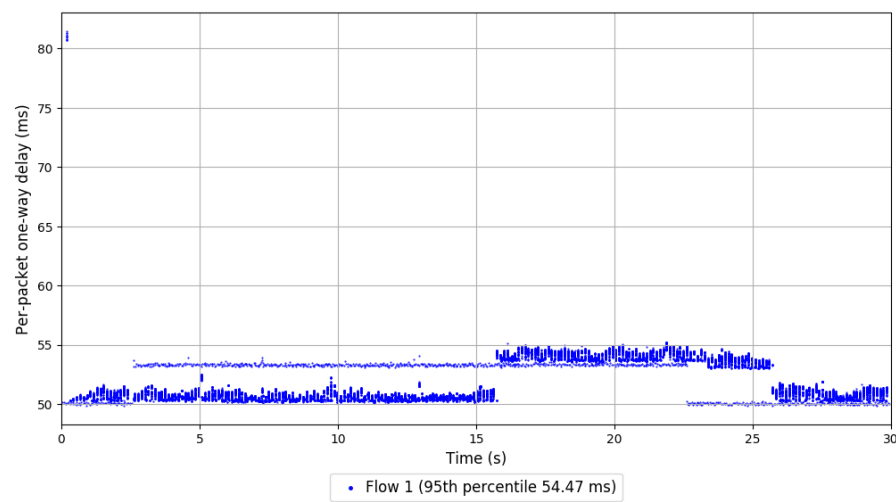
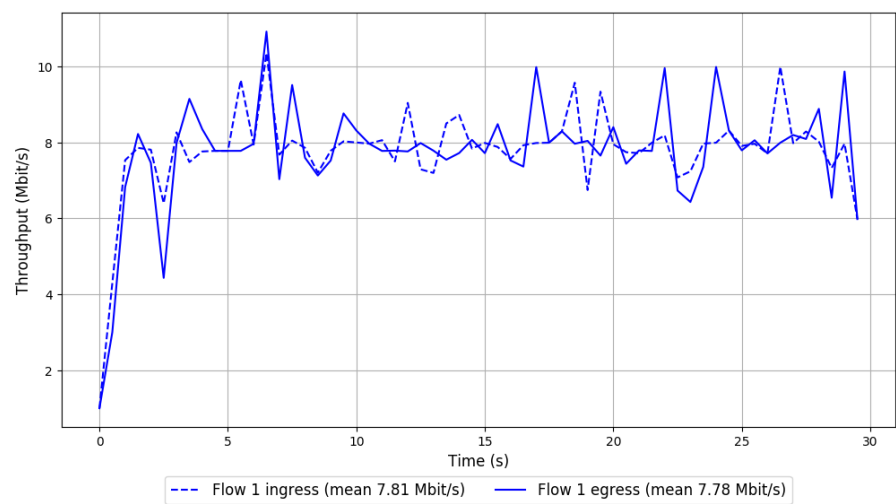
-- Flow 1:

Average throughput: 7.78 Mbit/s

95th percentile per-packet one-way delay: 54.472 ms

Loss rate: 0.43%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-01-09 04:29:44

End at: 2018-01-09 04:30:14

Below is generated by plot.py at 2018-01-09 05:59:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.77 Mbit/s

95th percentile per-packet one-way delay: 53.770 ms

Loss rate: 0.01%

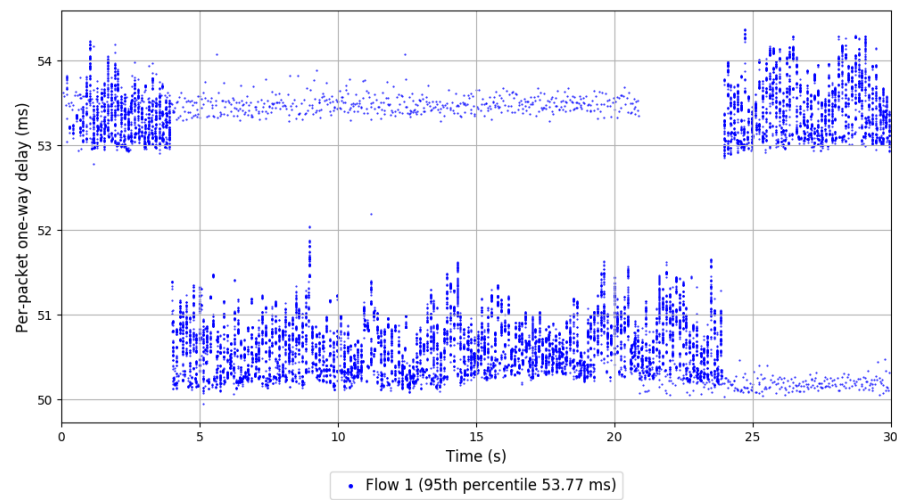
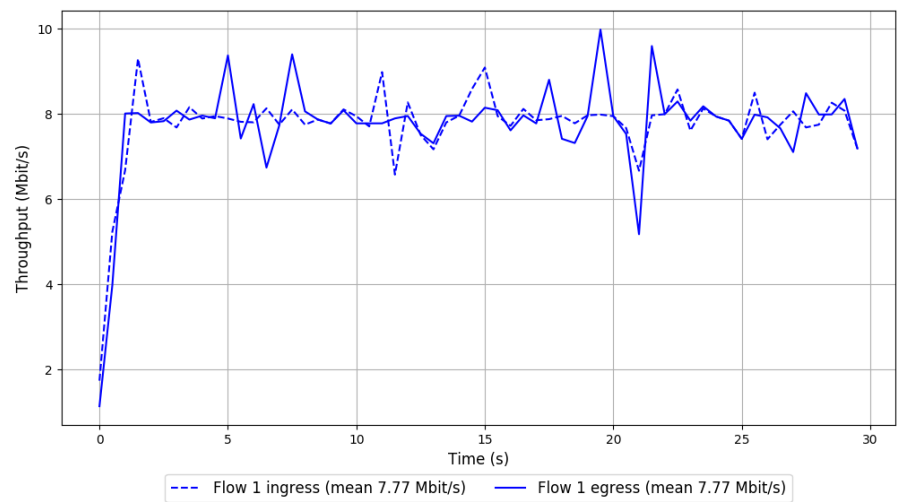
-- Flow 1:

Average throughput: 7.77 Mbit/s

95th percentile per-packet one-way delay: 53.770 ms

Loss rate: 0.01%

Run 10: Report of Sprout — Data Link

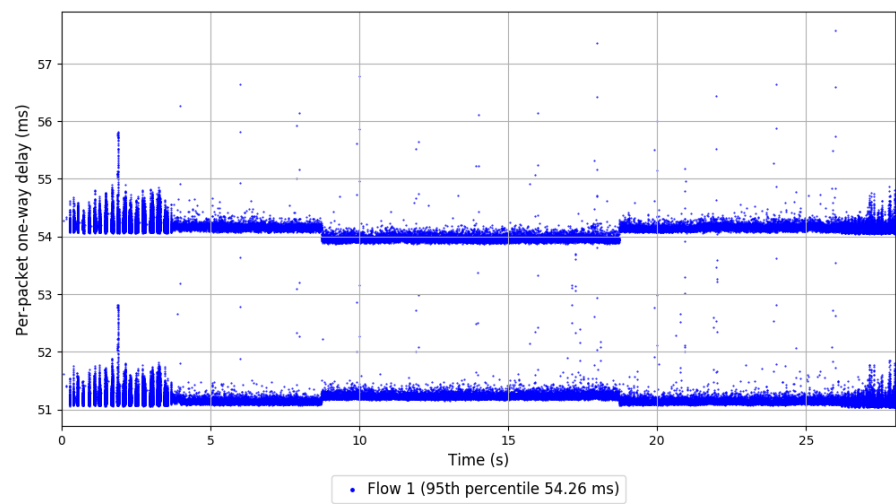
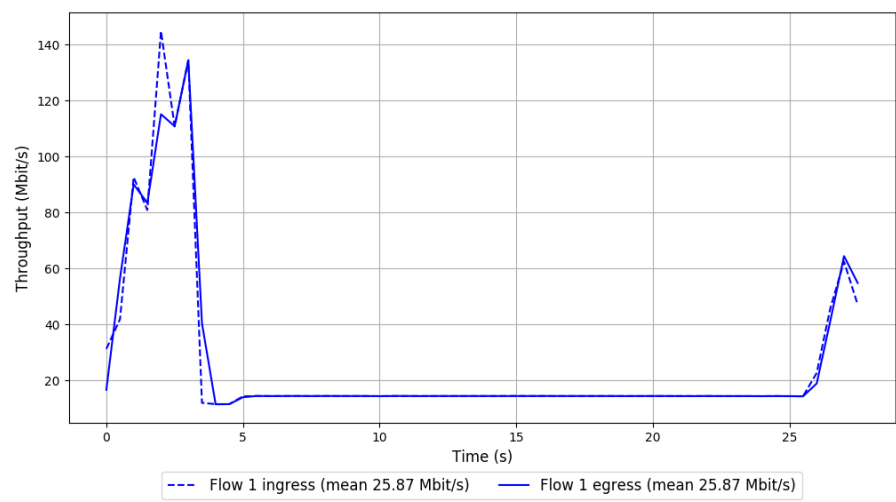


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-01-09 02:51:37
End at: 2018-01-09 02:52:07

# Below is generated by plot.py at 2018-01-09 05:59:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 25.87 Mbit/s
95th percentile per-packet one-way delay: 54.261 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 25.87 Mbit/s
95th percentile per-packet one-way delay: 54.261 ms
Loss rate: 0.00%
```


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

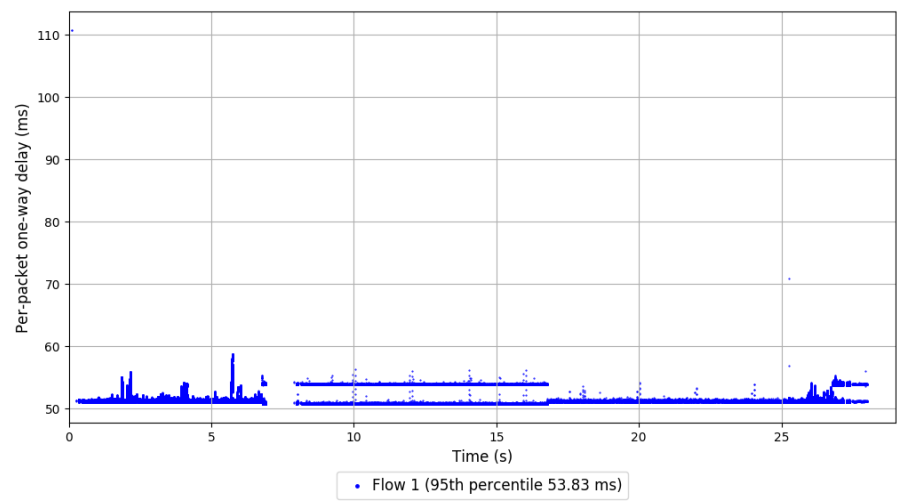
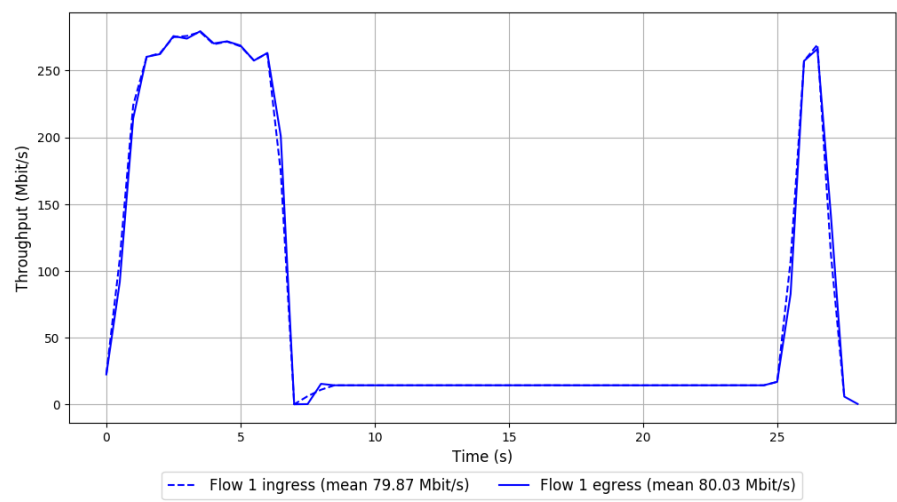


```
Run 2: Statistics of TaoVA-100x

Start at: 2018-01-09 03:02:59
End at: 2018-01-09 03:03:29

# Below is generated by plot.py at 2018-01-09 05:59:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 80.03 Mbit/s
95th percentile per-packet one-way delay: 53.831 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 80.03 Mbit/s
95th percentile per-packet one-way delay: 53.831 ms
Loss rate: 0.00%
```

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

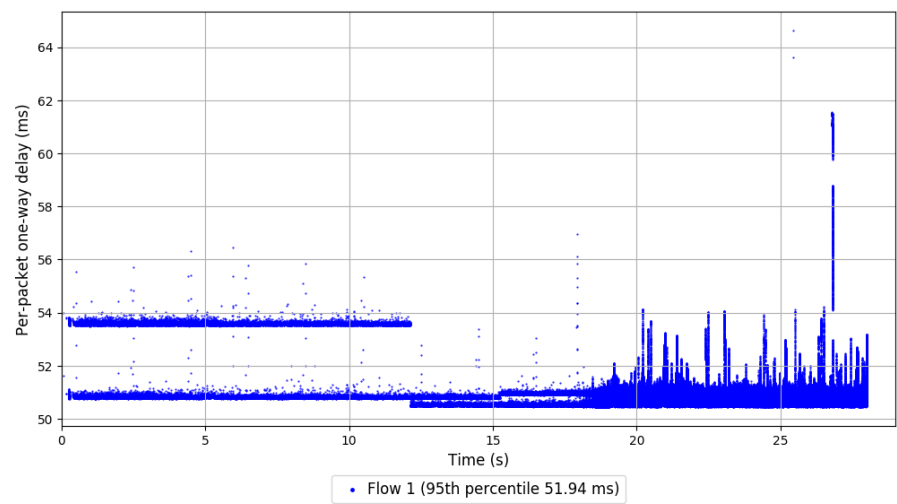
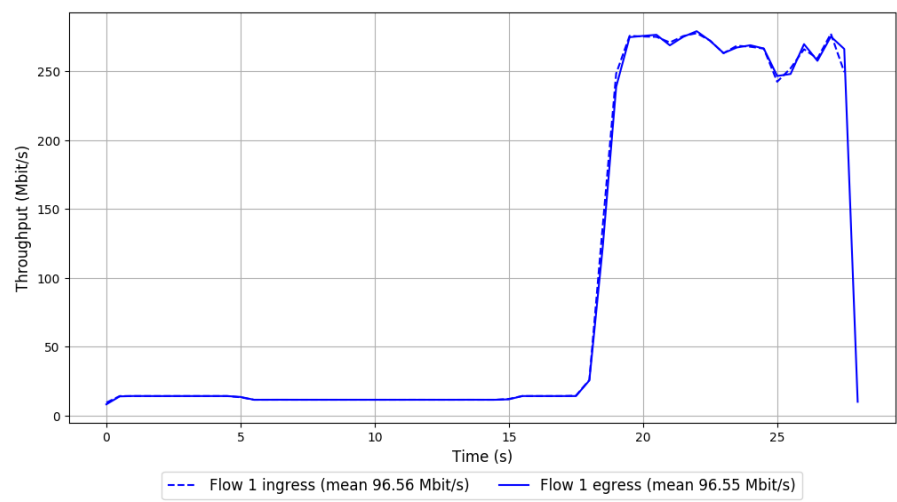


```
Run 3: Statistics of TaoVA-100x

Start at: 2018-01-09 03:14:21
End at: 2018-01-09 03:14:51

# Below is generated by plot.py at 2018-01-09 05:59:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.55 Mbit/s
95th percentile per-packet one-way delay: 51.942 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 96.55 Mbit/s
95th percentile per-packet one-way delay: 51.942 ms
Loss rate: 0.01%
```

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-01-09 03:25:44

End at: 2018-01-09 03:26:14

Below is generated by plot.py at 2018-01-09 05:59:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.41 Mbit/s

95th percentile per-packet one-way delay: 54.143 ms

Loss rate: 0.00%

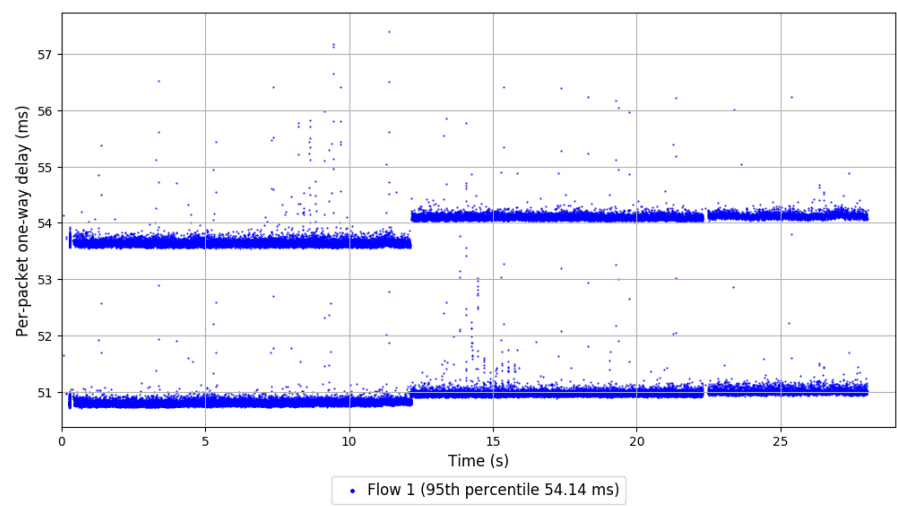
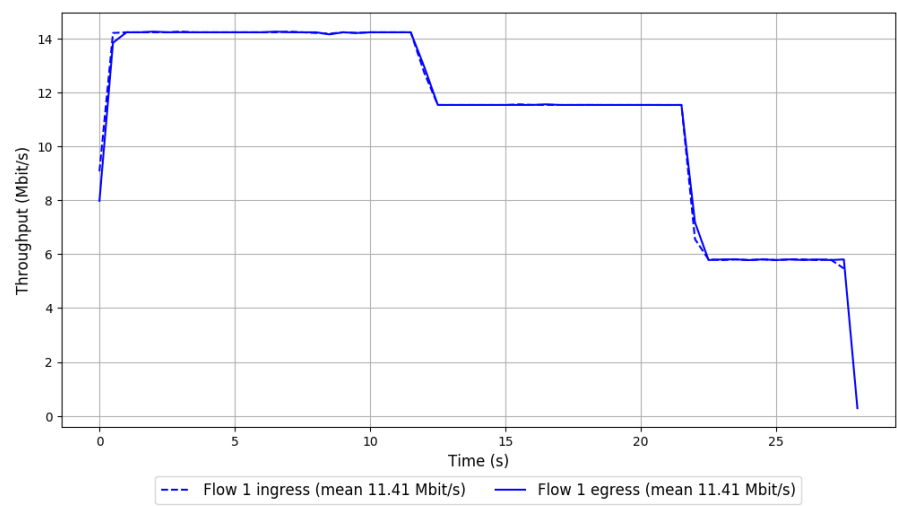
-- Flow 1:

Average throughput: 11.41 Mbit/s

95th percentile per-packet one-way delay: 54.143 ms

Loss rate: 0.00%

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

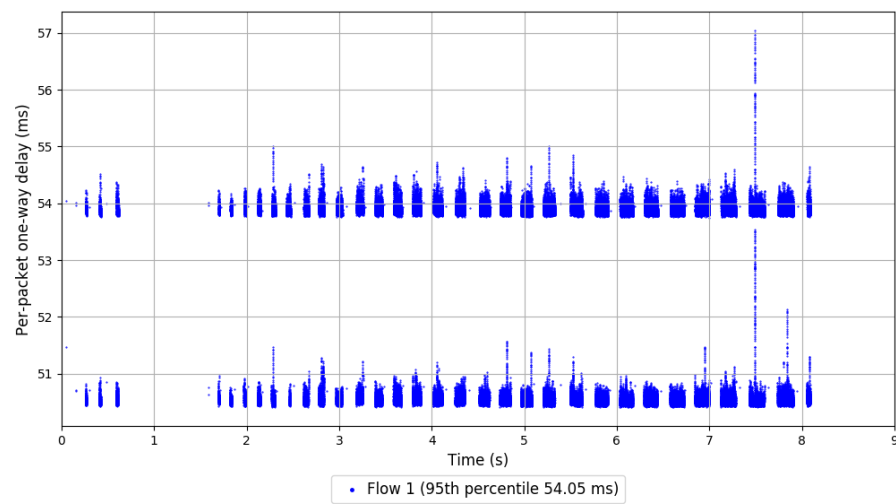
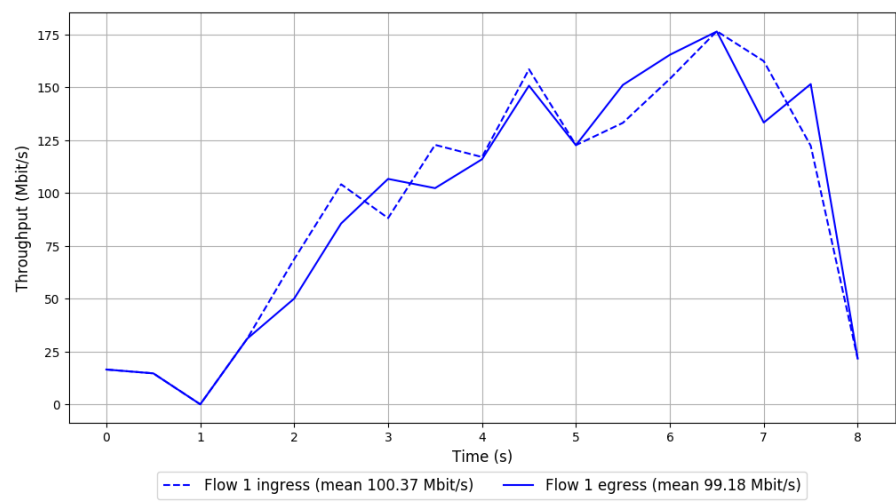


Run 5: Statistics of TaoVA-100x

Start at: 2018-01-09 03:36:56

End at: 2018-01-09 03:37:26

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-01-09 03:48:08

End at: 2018-01-09 03:48:38

Below is generated by plot.py at 2018-01-09 05:59:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.96 Mbit/s

95th percentile per-packet one-way delay: 53.789 ms

Loss rate: 0.00%

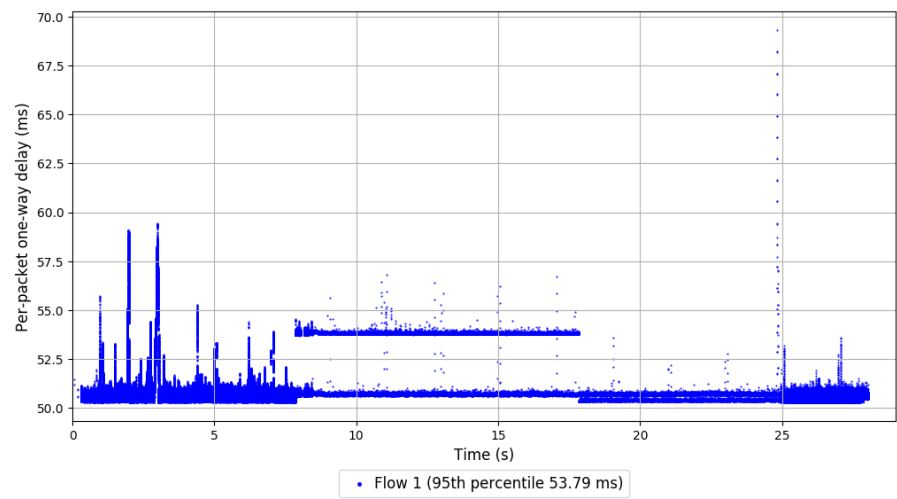
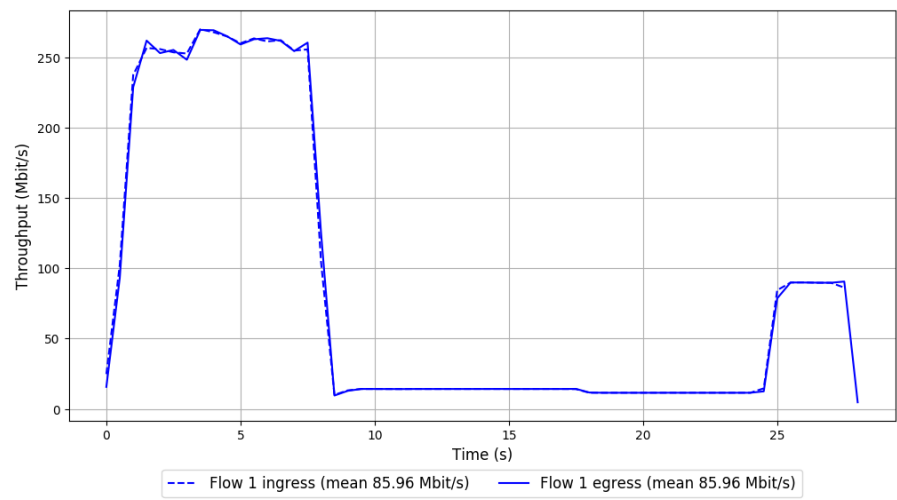
-- Flow 1:

Average throughput: 85.96 Mbit/s

95th percentile per-packet one-way delay: 53.789 ms

Loss rate: 0.00%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-01-09 03:59:08

End at: 2018-01-09 03:59:38

Below is generated by plot.py at 2018-01-09 05:59:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 19.42 Mbit/s

95th percentile per-packet one-way delay: 53.800 ms

Loss rate: 0.01%

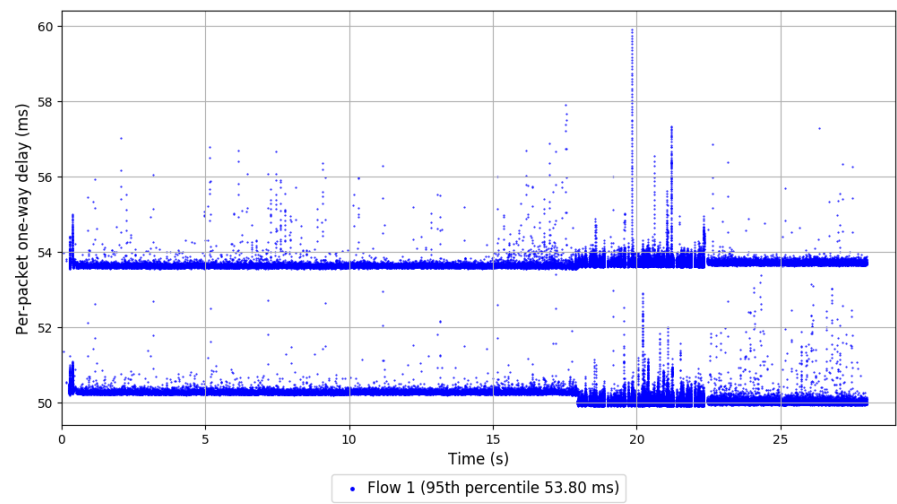
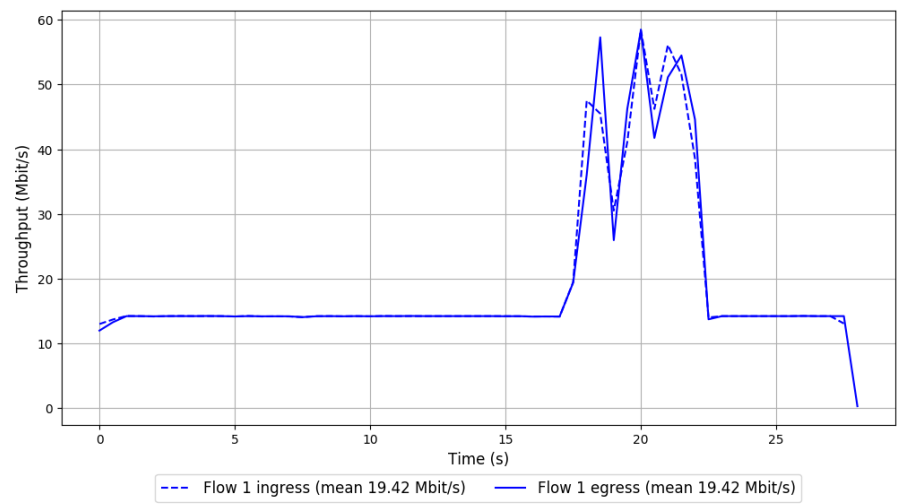
-- Flow 1:

Average throughput: 19.42 Mbit/s

95th percentile per-packet one-way delay: 53.800 ms

Loss rate: 0.01%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-01-09 04:10:30

End at: 2018-01-09 04:11:00

Below is generated by plot.py at 2018-01-09 05:59:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.98 Mbit/s

95th percentile per-packet one-way delay: 53.521 ms

Loss rate: 0.00%

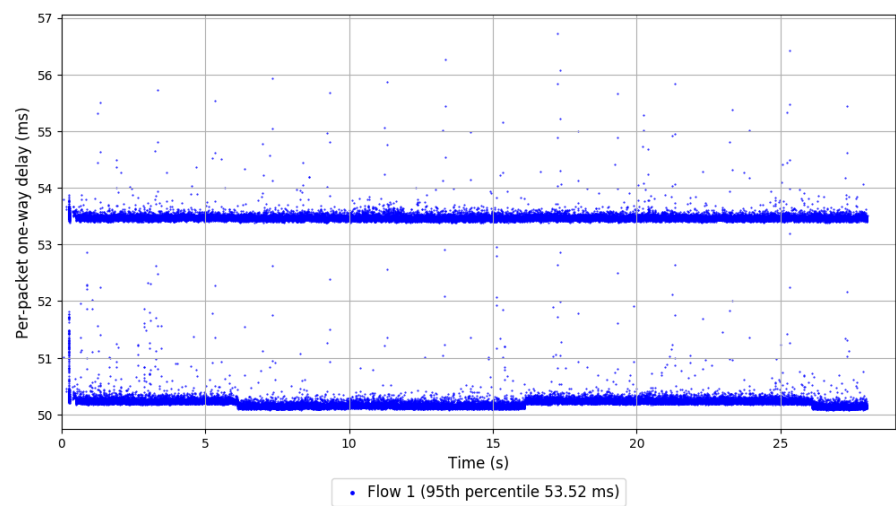
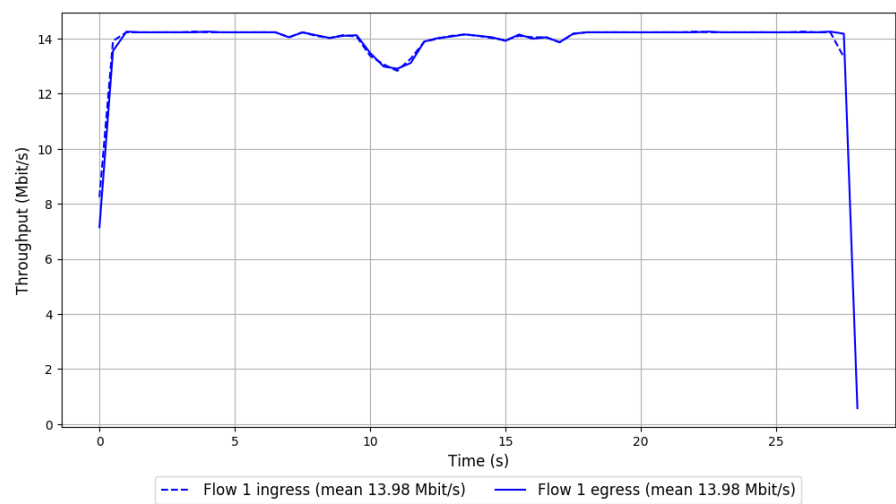
-- Flow 1:

Average throughput: 13.98 Mbit/s

95th percentile per-packet one-way delay: 53.521 ms

Loss rate: 0.00%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-01-09 04:21:55

End at: 2018-01-09 04:22:25

Below is generated by plot.py at 2018-01-09 05:59:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 186.17 Mbit/s

95th percentile per-packet one-way delay: 51.190 ms

Loss rate: 0.01%

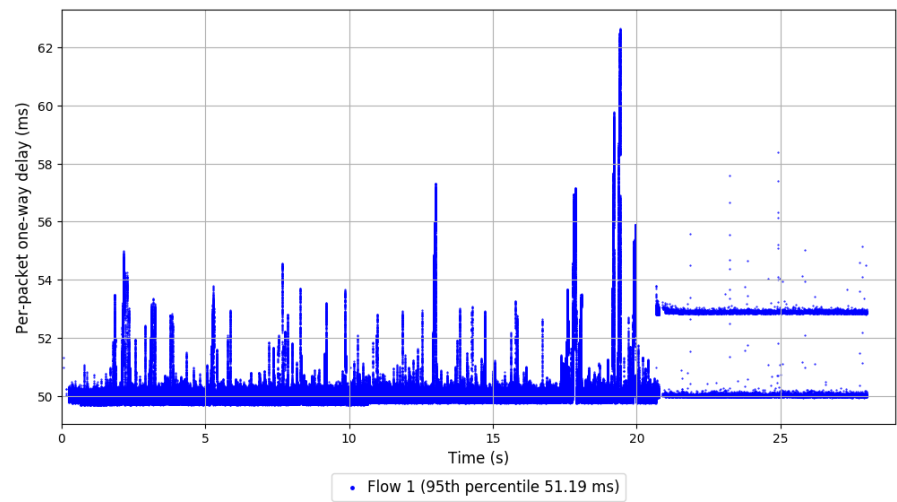
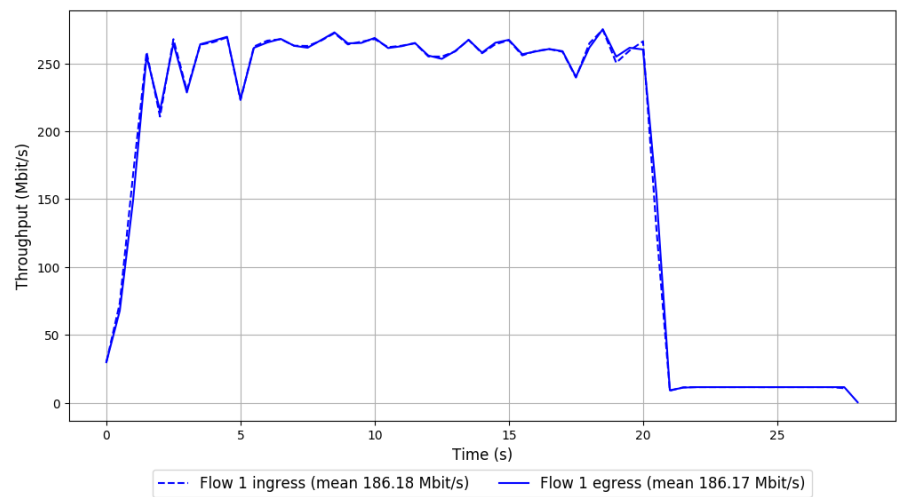
-- Flow 1:

Average throughput: 186.17 Mbit/s

95th percentile per-packet one-way delay: 51.190 ms

Loss rate: 0.01%

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

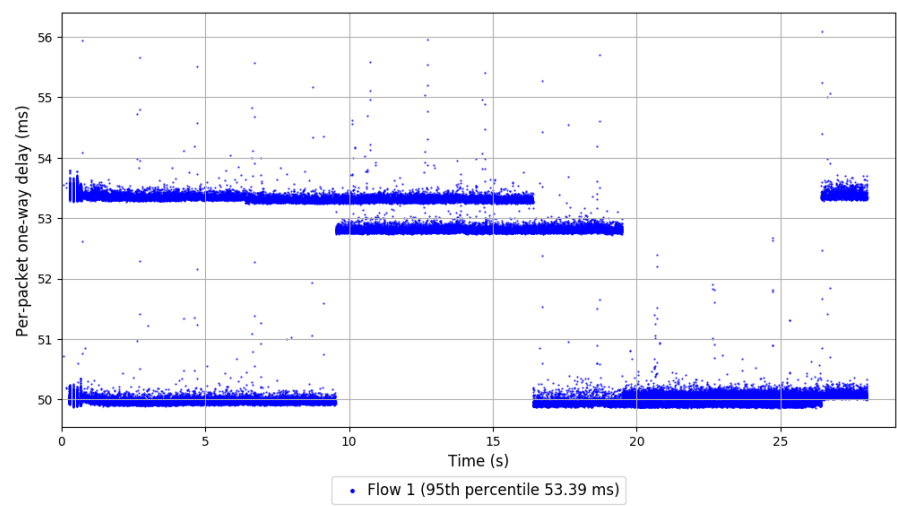
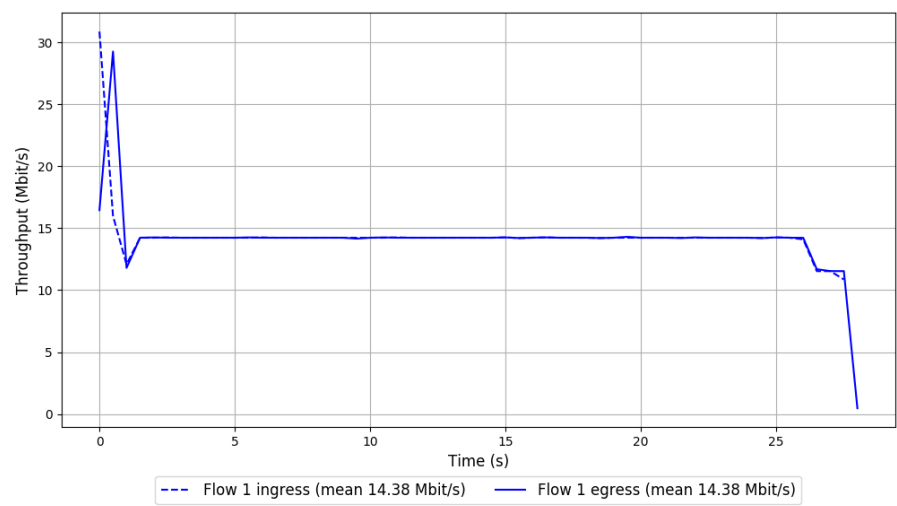


```
Run 10: Statistics of TaoVA-100x

Start at: 2018-01-09 04:33:36
End at: 2018-01-09 04:34:06

# Below is generated by plot.py at 2018-01-09 05:59:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 14.38 Mbit/s
95th percentile per-packet one-way delay: 53.392 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 14.38 Mbit/s
95th percentile per-packet one-way delay: 53.392 ms
Loss rate: 0.00%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2018-01-09 02:52:16

End at: 2018-01-09 02:52:46

Below is generated by plot.py at 2018-01-09 05:59:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 58.62 Mbit/s

95th percentile per-packet one-way delay: 54.973 ms

Loss rate: 0.00%

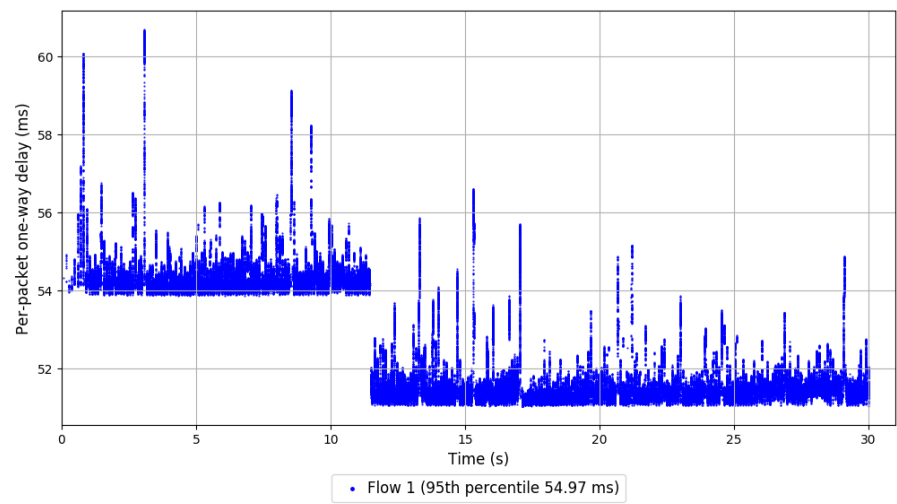
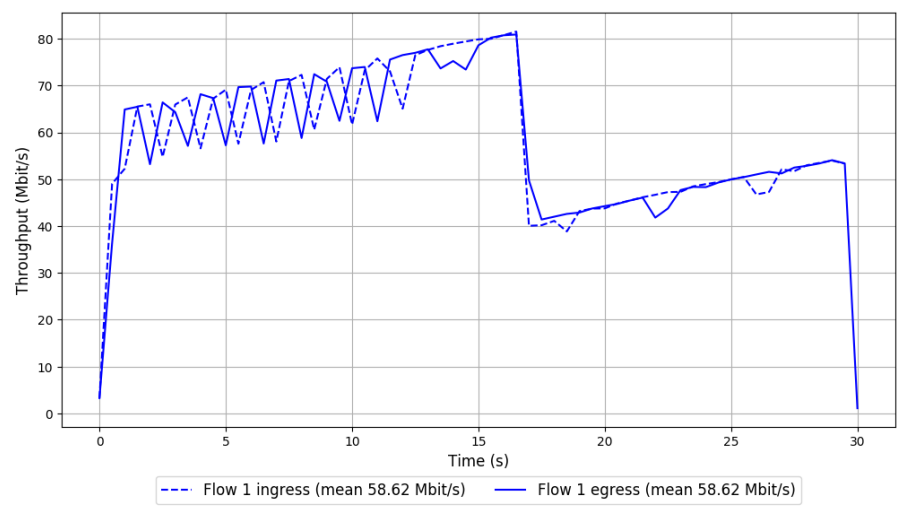
-- Flow 1:

Average throughput: 58.62 Mbit/s

95th percentile per-packet one-way delay: 54.973 ms

Loss rate: 0.00%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-01-09 03:03:43

End at: 2018-01-09 03:04:13

Below is generated by plot.py at 2018-01-09 05:59:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 15.68 Mbit/s

95th percentile per-packet one-way delay: 54.273 ms

Loss rate: 0.49%

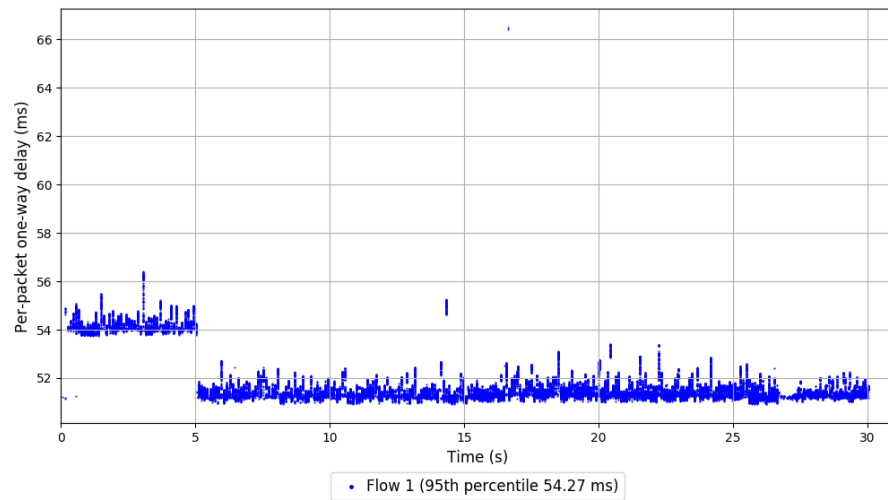
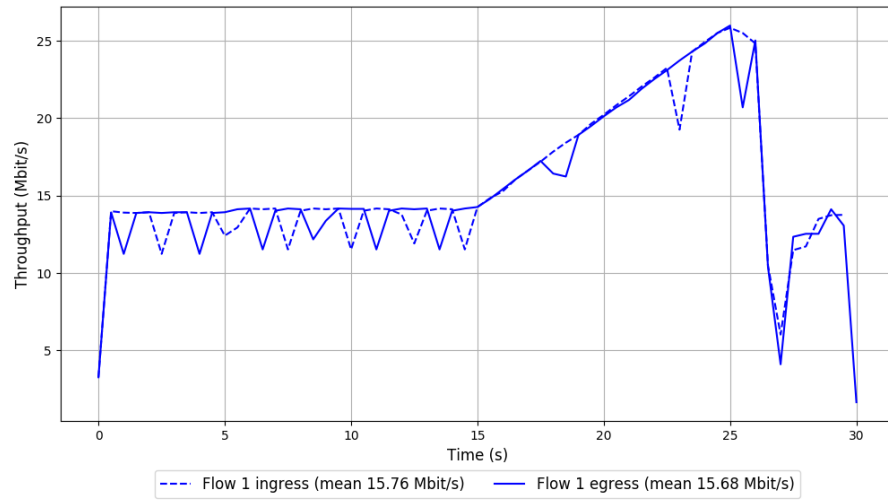
-- Flow 1:

Average throughput: 15.68 Mbit/s

95th percentile per-packet one-way delay: 54.273 ms

Loss rate: 0.49%

Run 2: Report of TCP Vegas — Data Link

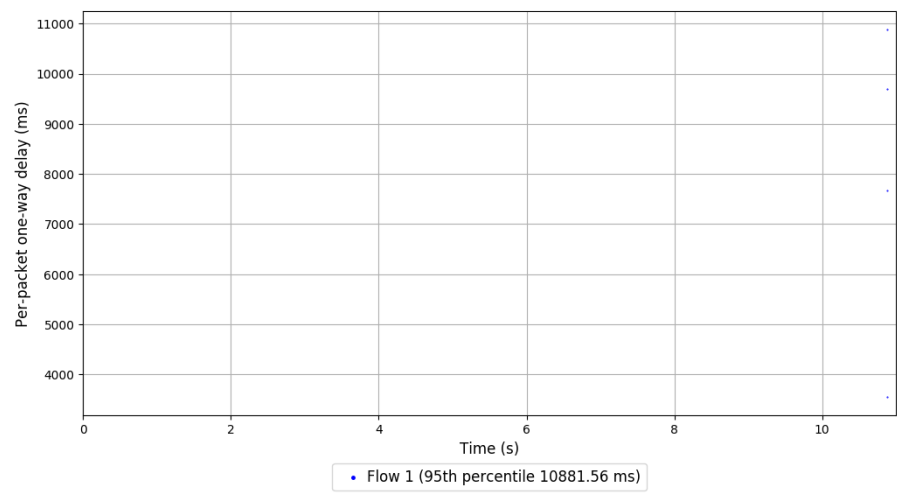
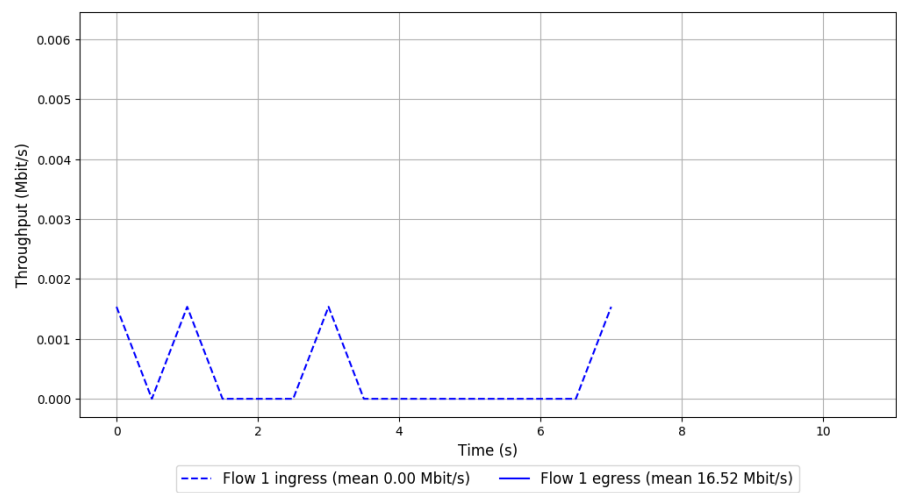


Run 3: Statistics of TCP Vegas

Start at: 2018-01-09 03:15:06

End at: 2018-01-09 03:15:36

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-01-09 03:26:22

End at: 2018-01-09 03:26:52

Below is generated by plot.py at 2018-01-09 05:59:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 49.33 Mbit/s

95th percentile per-packet one-way delay: 55.017 ms

Loss rate: 0.00%

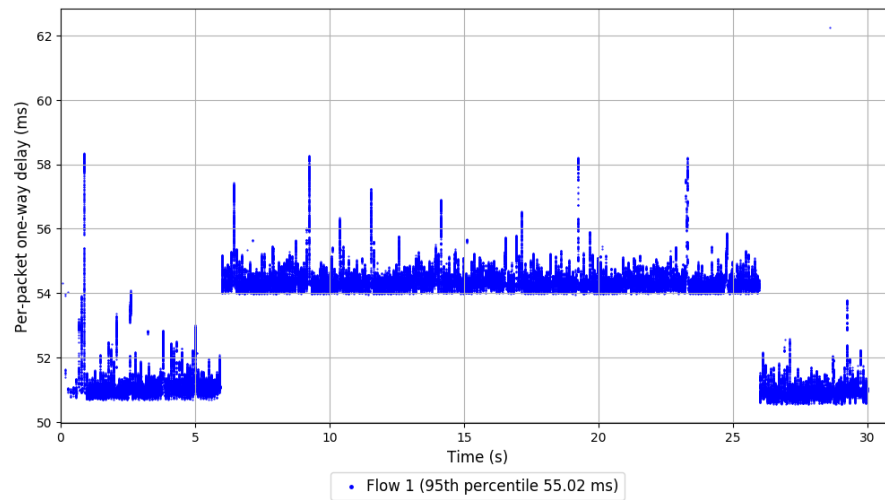
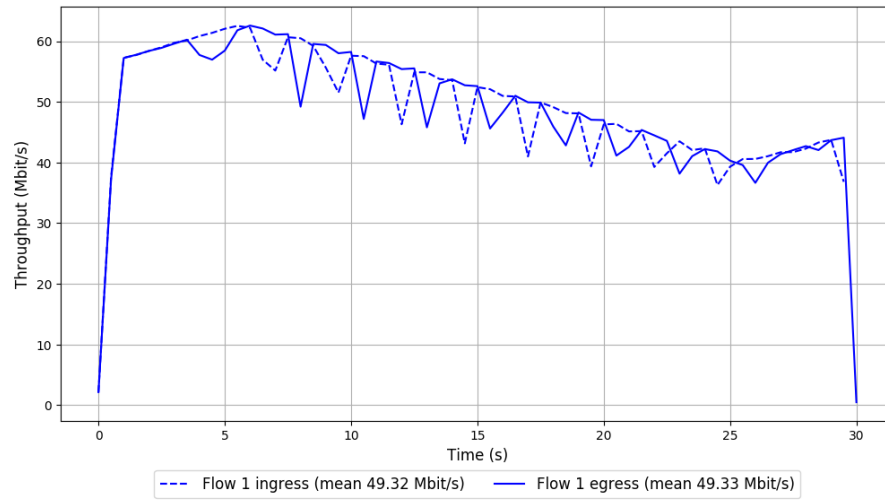
-- Flow 1:

Average throughput: 49.33 Mbit/s

95th percentile per-packet one-way delay: 55.017 ms

Loss rate: 0.00%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-01-09 03:37:34

End at: 2018-01-09 03:38:04

Below is generated by plot.py at 2018-01-09 05:59:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 57.03 Mbit/s

95th percentile per-packet one-way delay: 54.899 ms

Loss rate: 0.22%

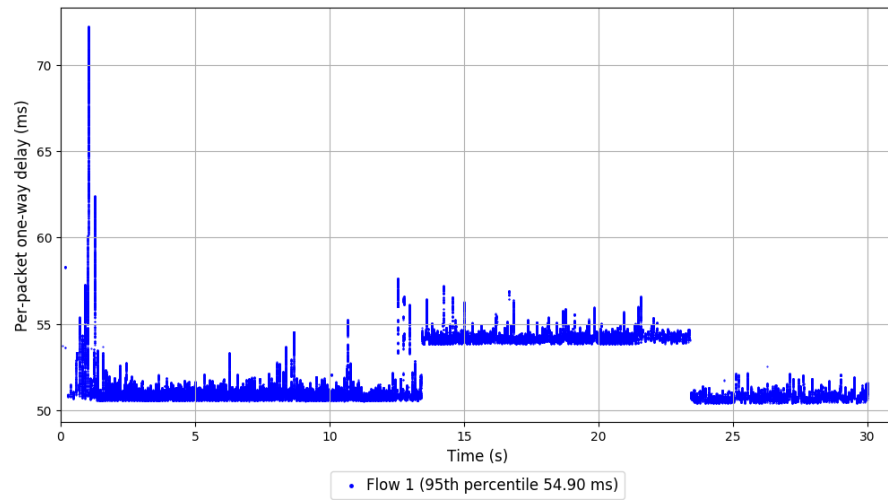
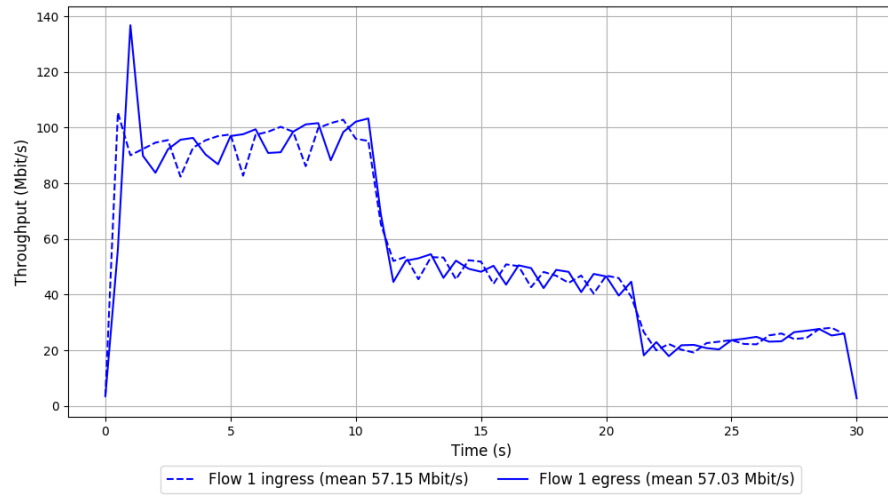
-- Flow 1:

Average throughput: 57.03 Mbit/s

95th percentile per-packet one-way delay: 54.899 ms

Loss rate: 0.22%

Run 5: Report of TCP Vegas — Data Link

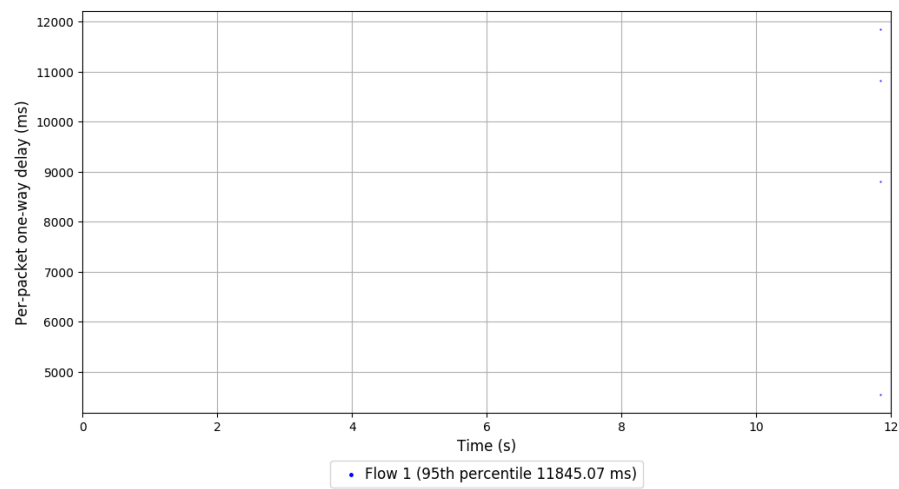
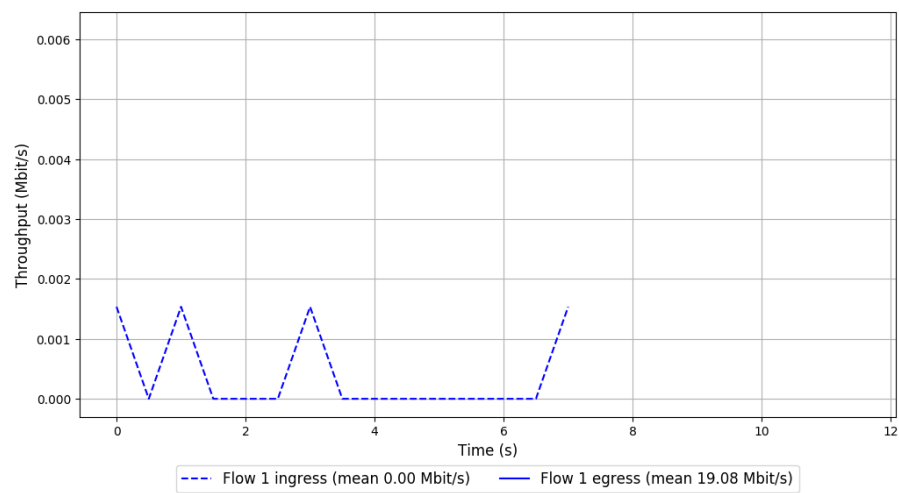


Run 6: Statistics of TCP Vegas

Start at: 2018-01-09 03:48:52

End at: 2018-01-09 03:49:22

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-01-09 03:59:47

End at: 2018-01-09 04:00:17

Below is generated by plot.py at 2018-01-09 05:59:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 111.33 Mbit/s

95th percentile per-packet one-way delay: 53.098 ms

Loss rate: 0.00%

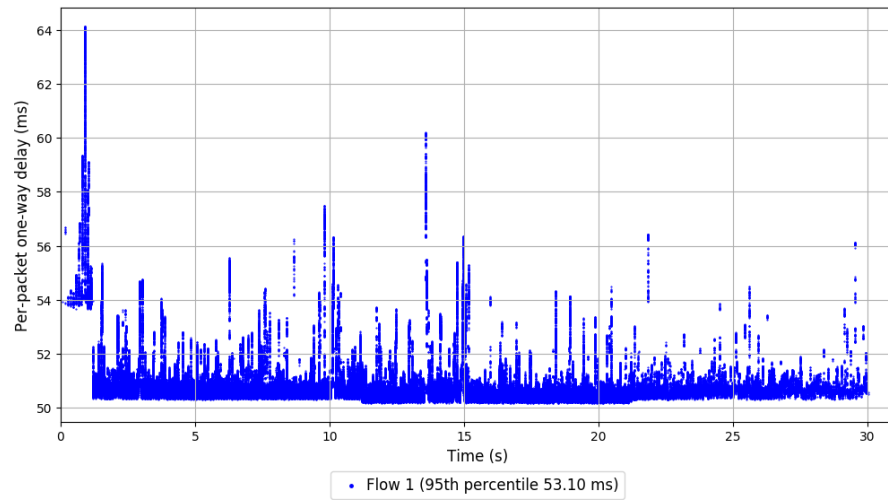
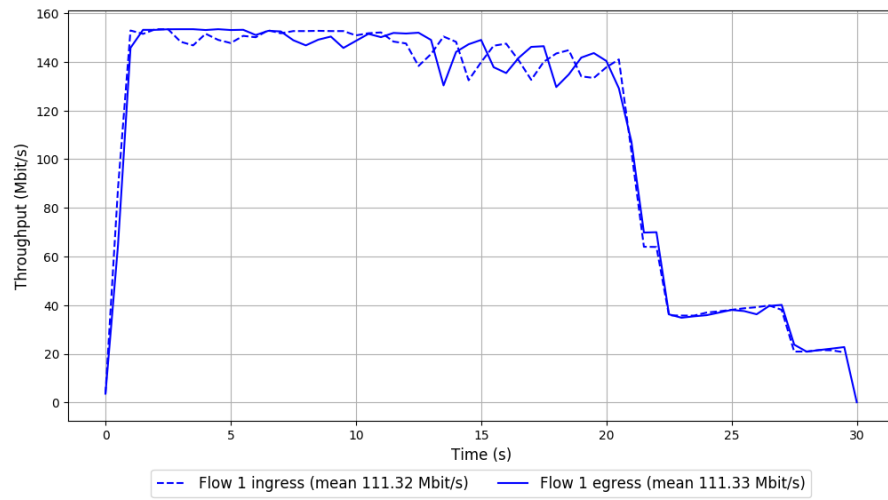
-- Flow 1:

Average throughput: 111.33 Mbit/s

95th percentile per-packet one-way delay: 53.098 ms

Loss rate: 0.00%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-01-09 04:11:08

End at: 2018-01-09 04:11:38

Below is generated by plot.py at 2018-01-09 05:59:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 35.91 Mbit/s

95th percentile per-packet one-way delay: 54.679 ms

Loss rate: 1.31%

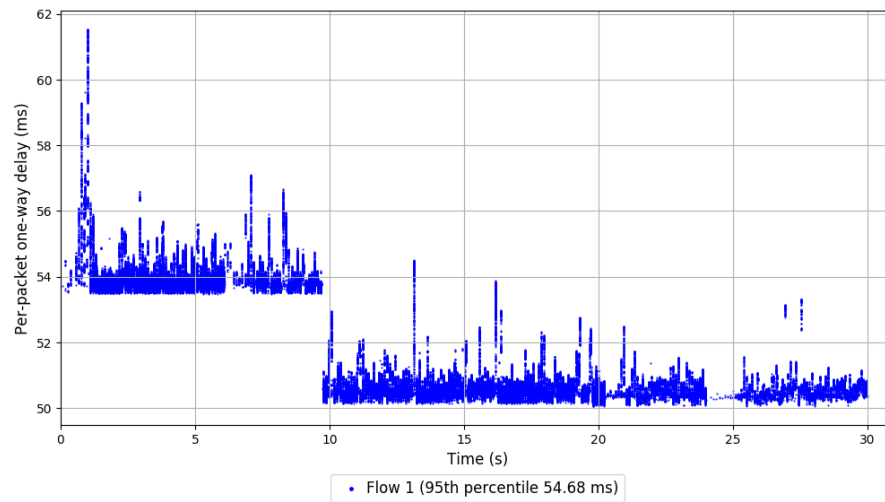
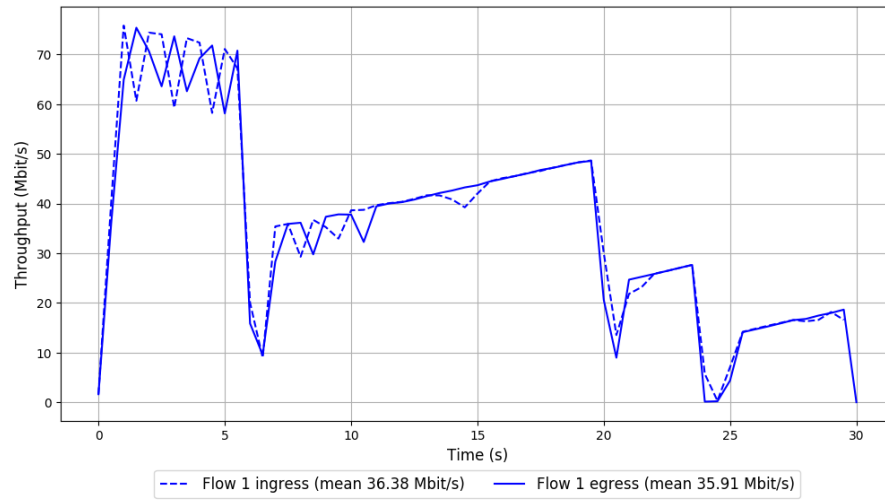
-- Flow 1:

Average throughput: 35.91 Mbit/s

95th percentile per-packet one-way delay: 54.679 ms

Loss rate: 1.31%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-01-09 04:22:48

End at: 2018-01-09 04:23:18

Below is generated by plot.py at 2018-01-09 05:59:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.58 Mbit/s

95th percentile per-packet one-way delay: 51.233 ms

Loss rate: 1.73%

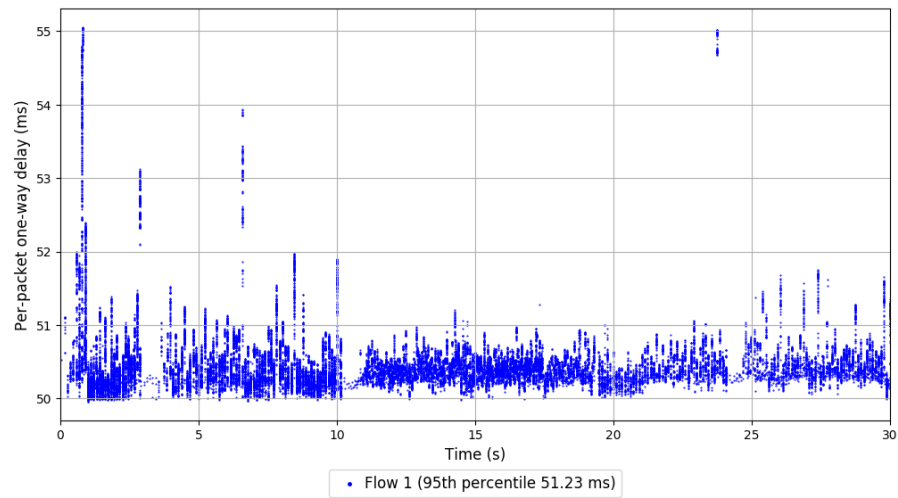
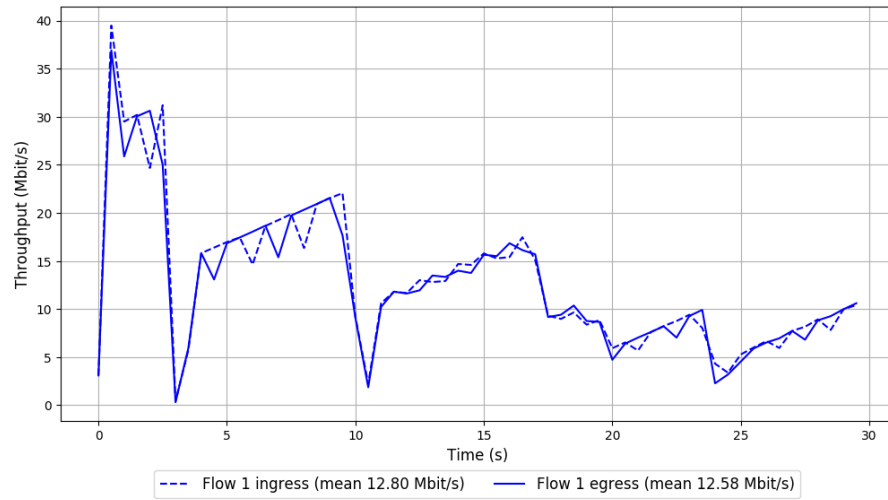
-- Flow 1:

Average throughput: 12.58 Mbit/s

95th percentile per-packet one-way delay: 51.233 ms

Loss rate: 1.73%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-01-09 04:34:15

End at: 2018-01-09 04:34:45

Below is generated by plot.py at 2018-01-09 05:59:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 36.87 Mbit/s

95th percentile per-packet one-way delay: 53.514 ms

Loss rate: 0.45%

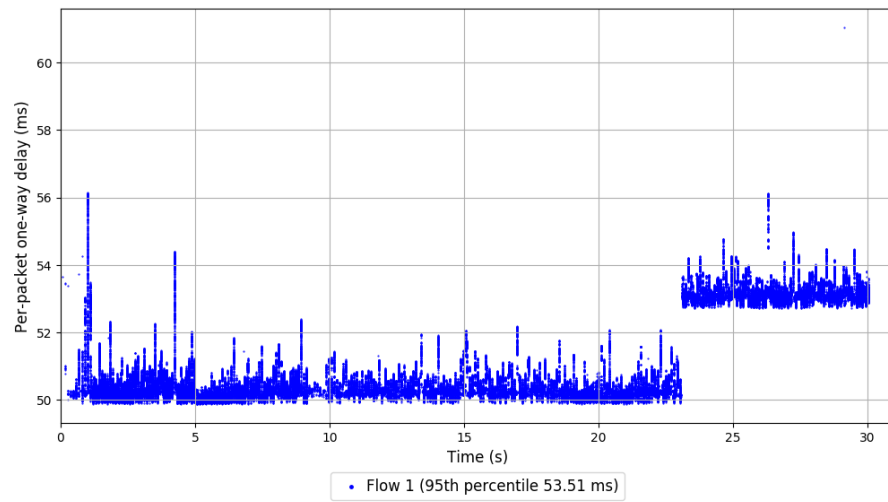
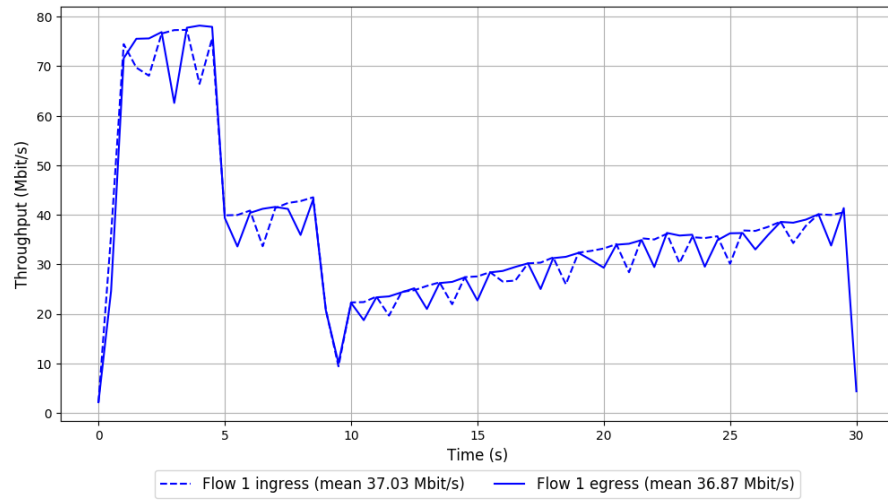
-- Flow 1:

Average throughput: 36.87 Mbit/s

95th percentile per-packet one-way delay: 53.514 ms

Loss rate: 0.45%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-01-09 02:44:31

End at: 2018-01-09 02:45:01

Below is generated by plot.py at 2018-01-09 05:59:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 254.70 Mbit/s

95th percentile per-packet one-way delay: 117.501 ms

Loss rate: 0.91%

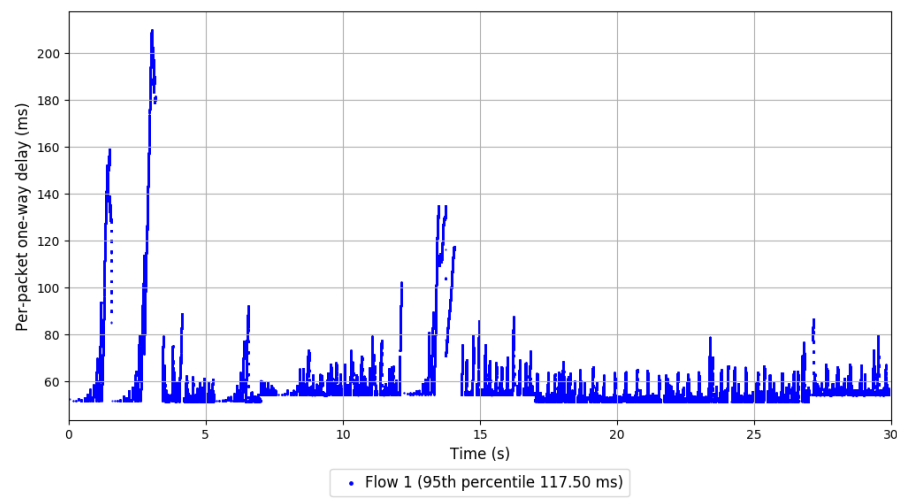
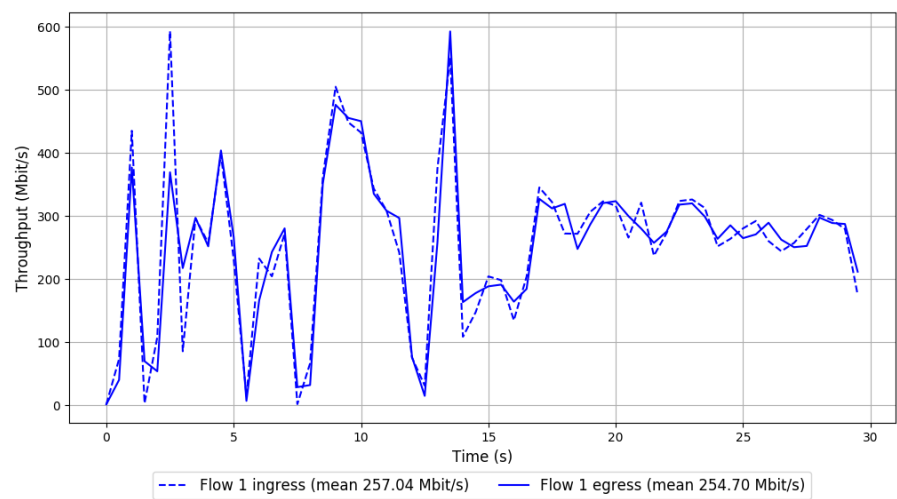
-- Flow 1:

Average throughput: 254.70 Mbit/s

95th percentile per-packet one-way delay: 117.501 ms

Loss rate: 0.91%

Run 1: Report of Verus — Data Link

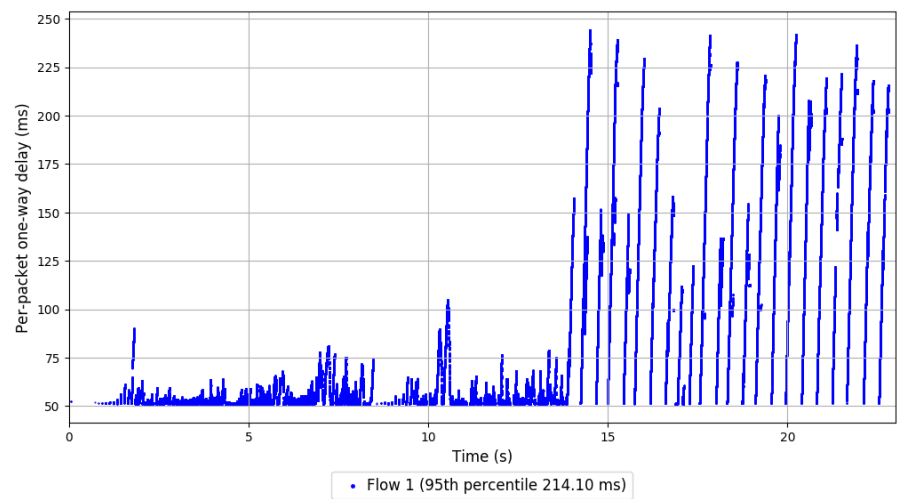
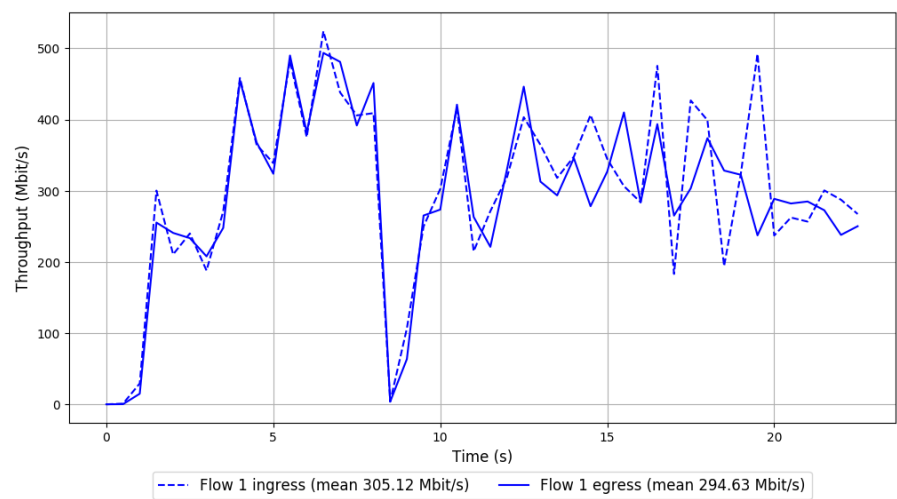


Run 2: Statistics of Verus

Start at: 2018-01-09 02:55:56

End at: 2018-01-09 02:56:26

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-01-09 03:07:21

End at: 2018-01-09 03:07:51

Below is generated by plot.py at 2018-01-09 05:59:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 243.35 Mbit/s

95th percentile per-packet one-way delay: 90.886 ms

Loss rate: 1.54%

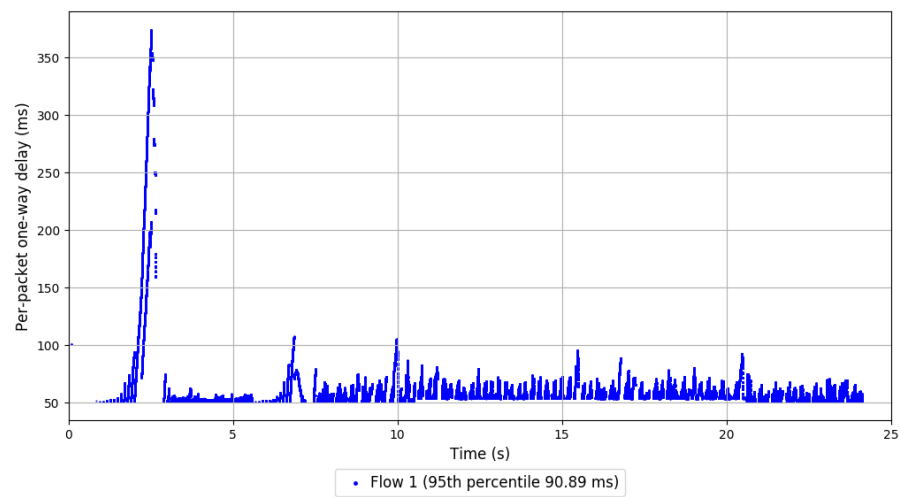
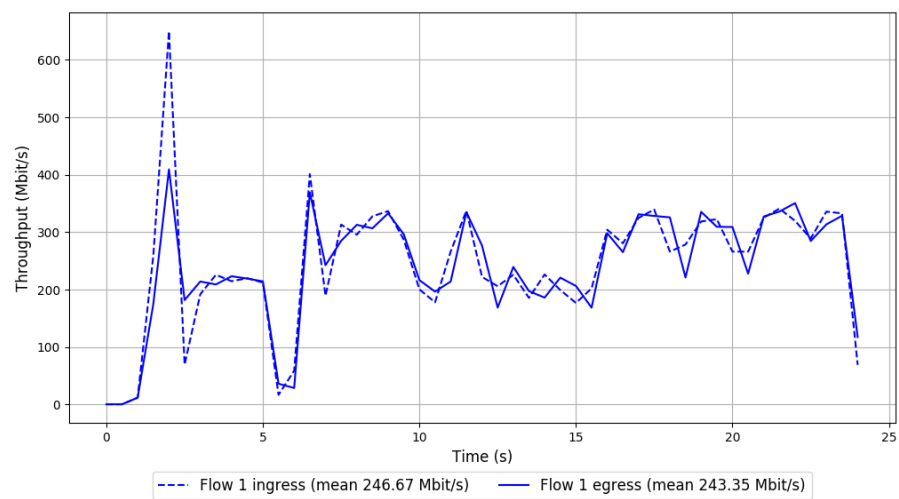
-- Flow 1:

Average throughput: 243.35 Mbit/s

95th percentile per-packet one-way delay: 90.886 ms

Loss rate: 1.54%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-01-09 03:18:38

End at: 2018-01-09 03:19:08

Below is generated by plot.py at 2018-01-09 05:59:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 265.87 Mbit/s

95th percentile per-packet one-way delay: 182.615 ms

Loss rate: 1.17%

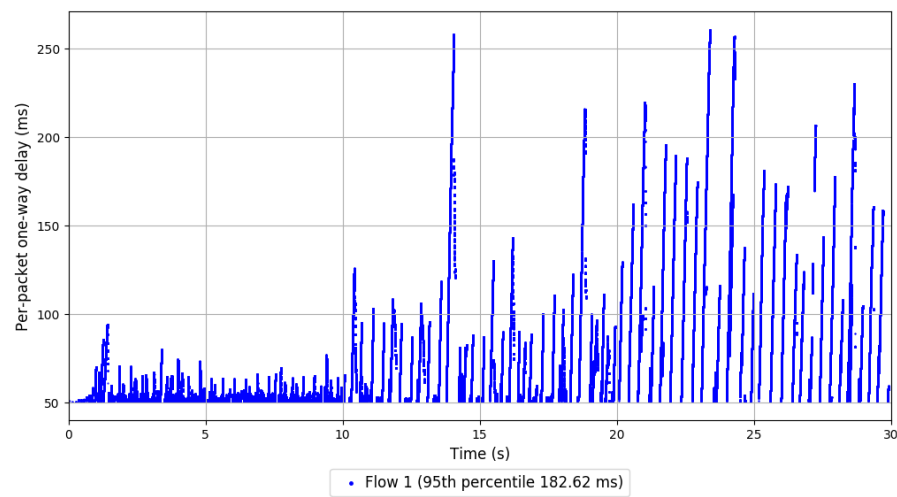
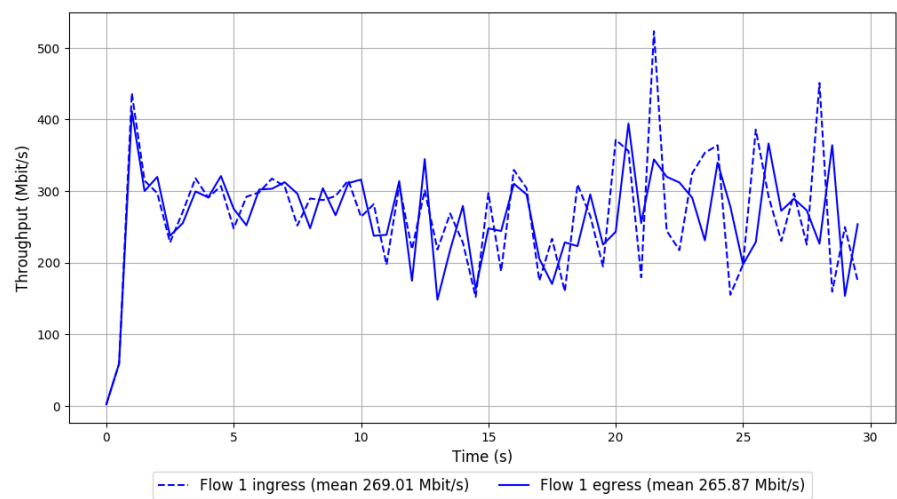
-- Flow 1:

Average throughput: 265.87 Mbit/s

95th percentile per-packet one-way delay: 182.615 ms

Loss rate: 1.17%

Run 4: Report of Verus — Data Link

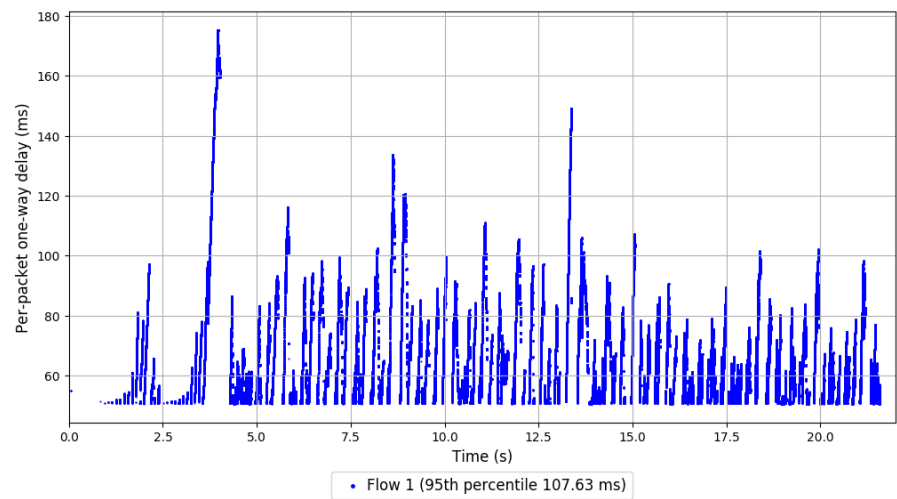
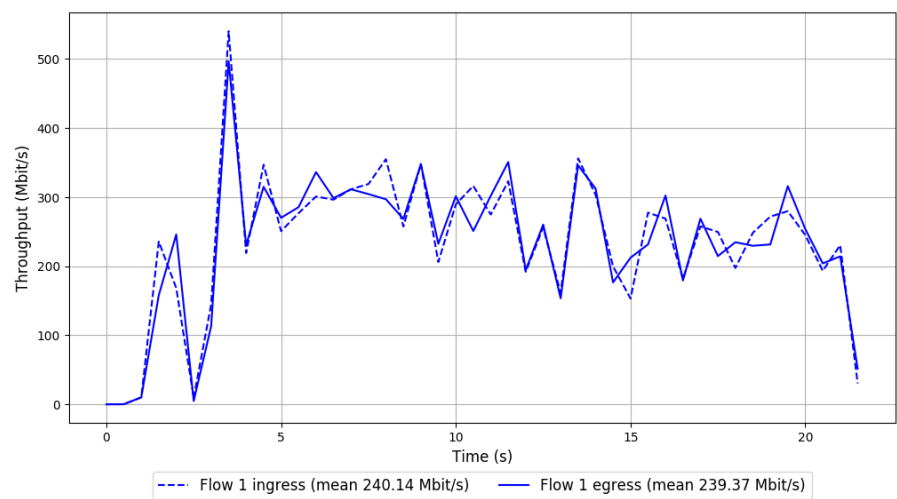


Run 5: Statistics of Verus

Start at: 2018-01-09 03:30:01

End at: 2018-01-09 03:30:31

Run 5: Report of Verus — Data Link

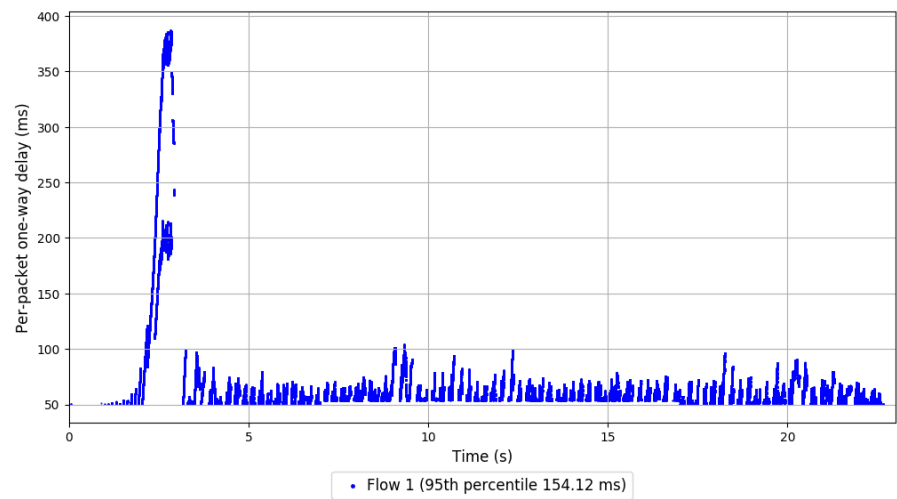
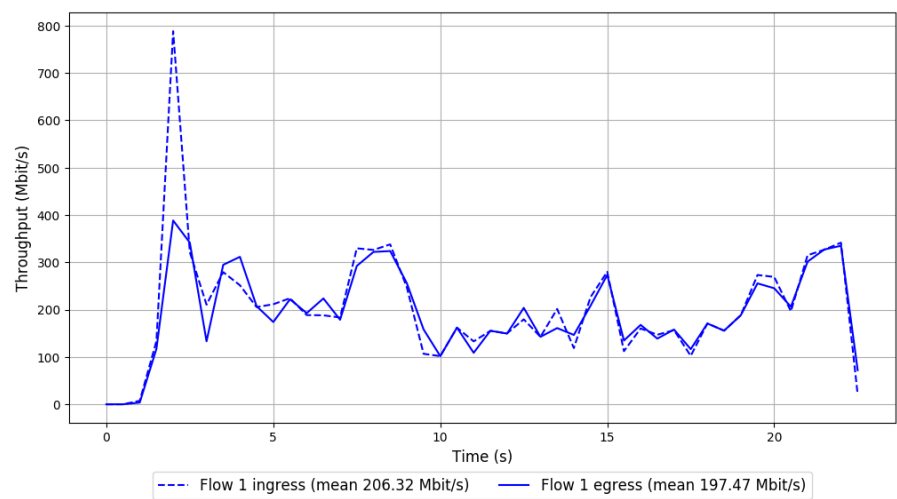


Run 6: Statistics of Verus

Start at: 2018-01-09 03:41:13

End at: 2018-01-09 03:41:43

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-01-09 03:52:18

End at: 2018-01-09 03:52:48

Below is generated by plot.py at 2018-01-09 06:02:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 218.39 Mbit/s

95th percentile per-packet one-way delay: 104.363 ms

Loss rate: 1.22%

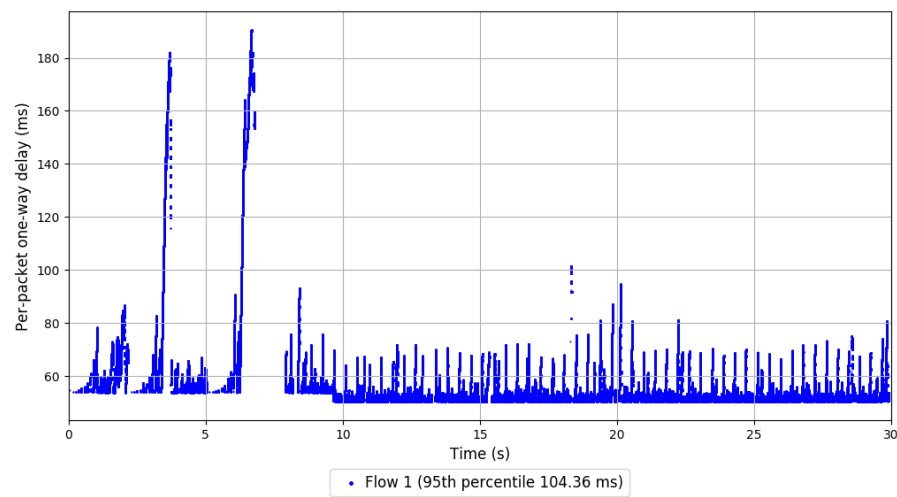
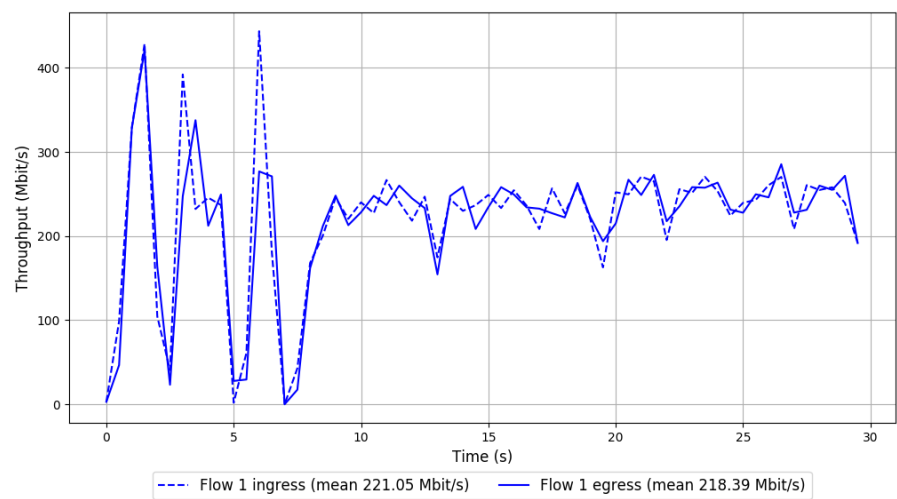
-- Flow 1:

Average throughput: 218.39 Mbit/s

95th percentile per-packet one-way delay: 104.363 ms

Loss rate: 1.22%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-01-09 04:03:29

End at: 2018-01-09 04:03:59

Below is generated by plot.py at 2018-01-09 06:03:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 264.10 Mbit/s

95th percentile per-packet one-way delay: 87.659 ms

Loss rate: 1.53%

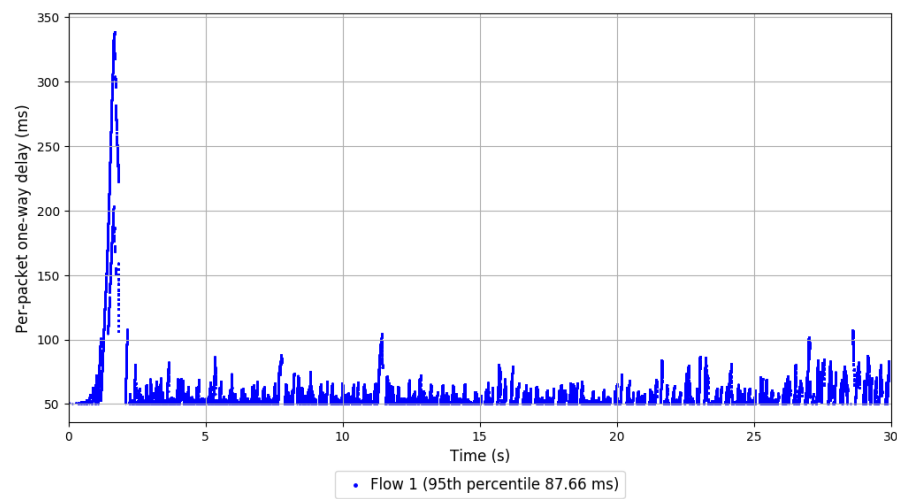
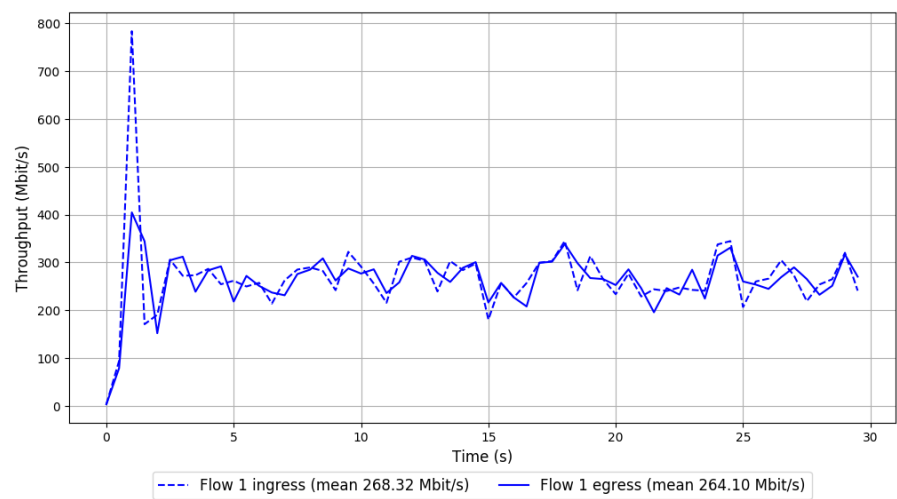
-- Flow 1:

Average throughput: 264.10 Mbit/s

95th percentile per-packet one-way delay: 87.659 ms

Loss rate: 1.53%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-01-09 04:14:46

End at: 2018-01-09 04:15:16

Below is generated by plot.py at 2018-01-09 06:03:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 310.07 Mbit/s

95th percentile per-packet one-way delay: 96.958 ms

Loss rate: 0.28%

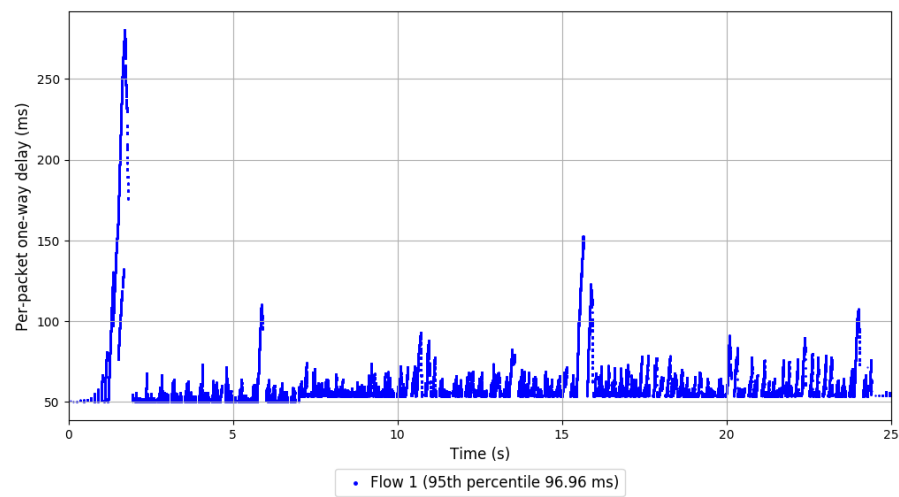
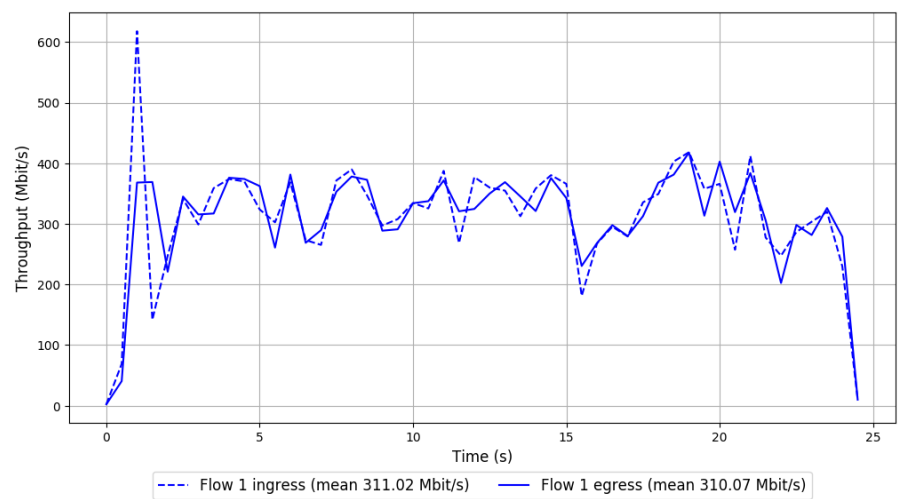
-- Flow 1:

Average throughput: 310.07 Mbit/s

95th percentile per-packet one-way delay: 96.958 ms

Loss rate: 0.28%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-01-09 04:26:27

End at: 2018-01-09 04:26:57

Below is generated by plot.py at 2018-01-09 06:03:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 292.34 Mbit/s

95th percentile per-packet one-way delay: 82.628 ms

Loss rate: 1.09%

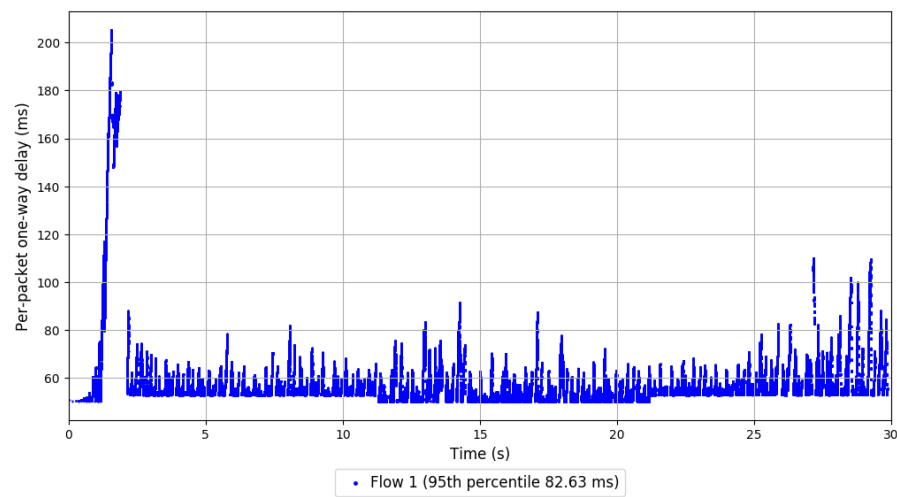
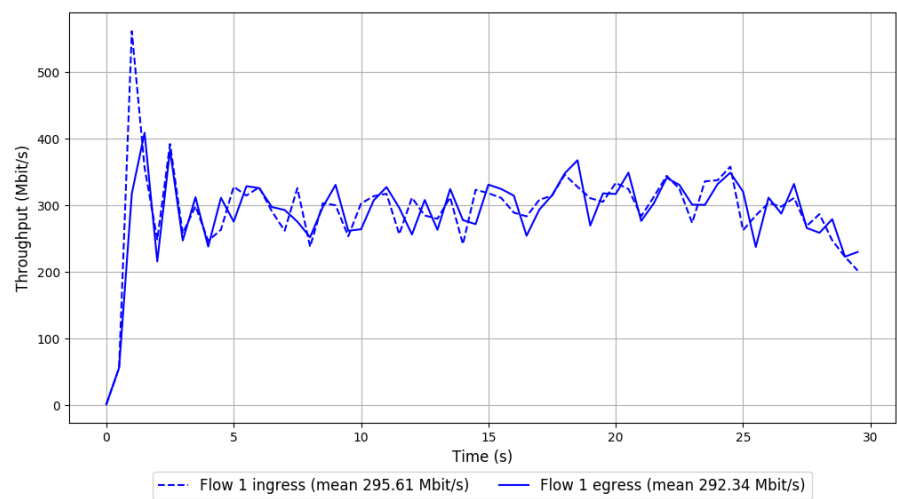
-- Flow 1:

Average throughput: 292.34 Mbit/s

95th percentile per-packet one-way delay: 82.628 ms

Loss rate: 1.09%

Run 10: Report of Verus — Data Link

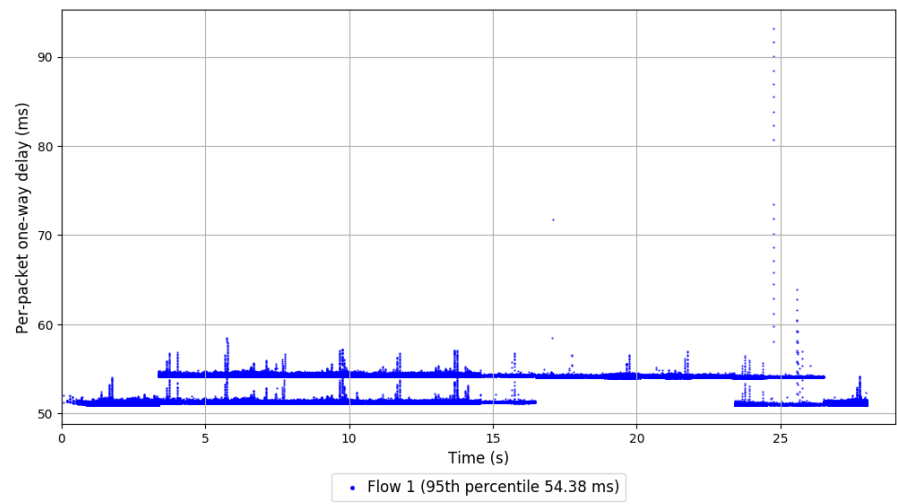
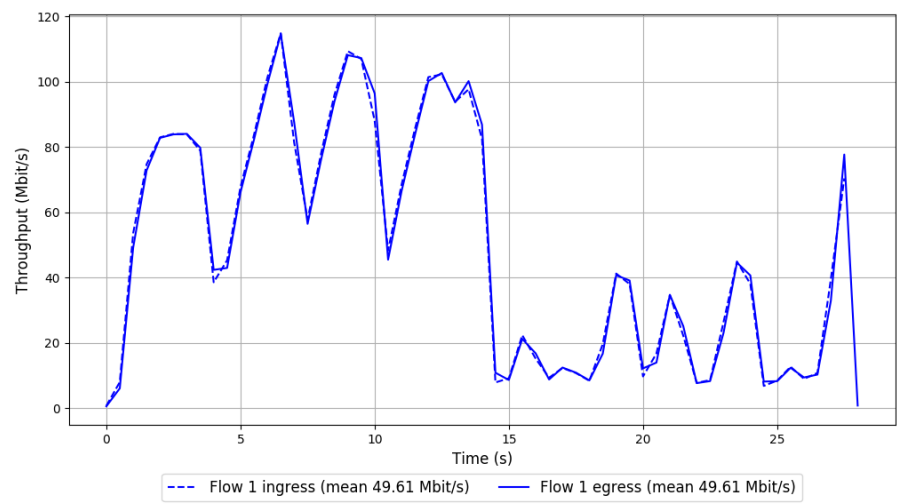


```
Run 1: Statistics of Copa

Start at: 2018-01-09 02:43:49
End at: 2018-01-09 02:44:19

# Below is generated by plot.py at 2018-01-09 06:03:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 49.61 Mbit/s
95th percentile per-packet one-way delay: 54.377 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 49.61 Mbit/s
95th percentile per-packet one-way delay: 54.377 ms
Loss rate: 0.00%
```

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-01-09 02:55:13

End at: 2018-01-09 02:55:43

Below is generated by plot.py at 2018-01-09 06:03:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.23 Mbit/s

95th percentile per-packet one-way delay: 54.260 ms

Loss rate: 0.00%

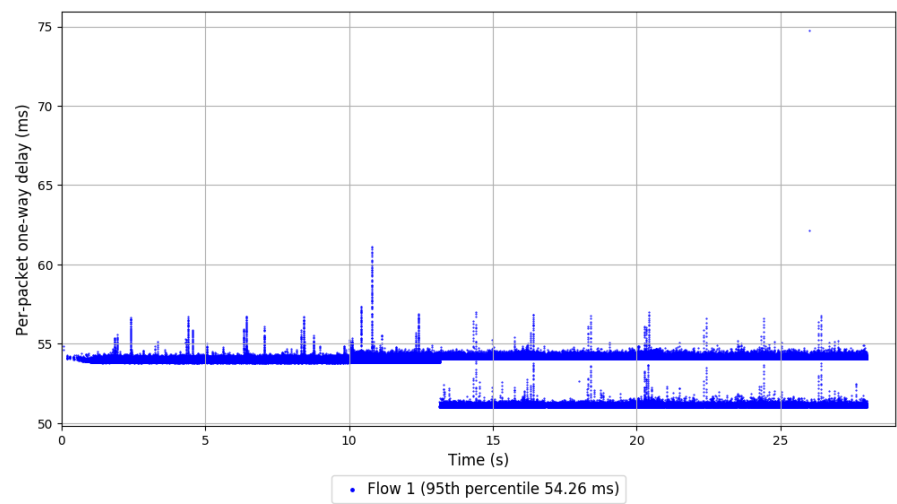
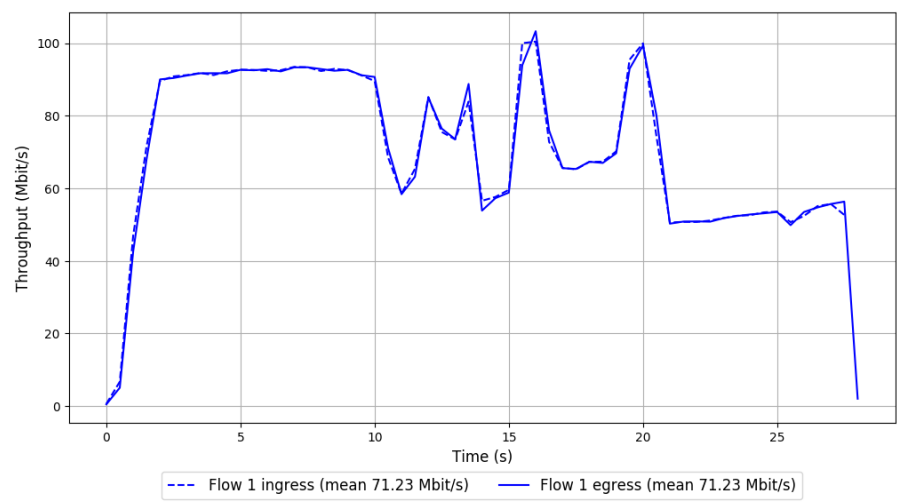
-- Flow 1:

Average throughput: 71.23 Mbit/s

95th percentile per-packet one-way delay: 54.260 ms

Loss rate: 0.00%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-01-09 03:06:37

End at: 2018-01-09 03:07:07

Below is generated by plot.py at 2018-01-09 06:03:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.71 Mbit/s

95th percentile per-packet one-way delay: 53.990 ms

Loss rate: 0.00%

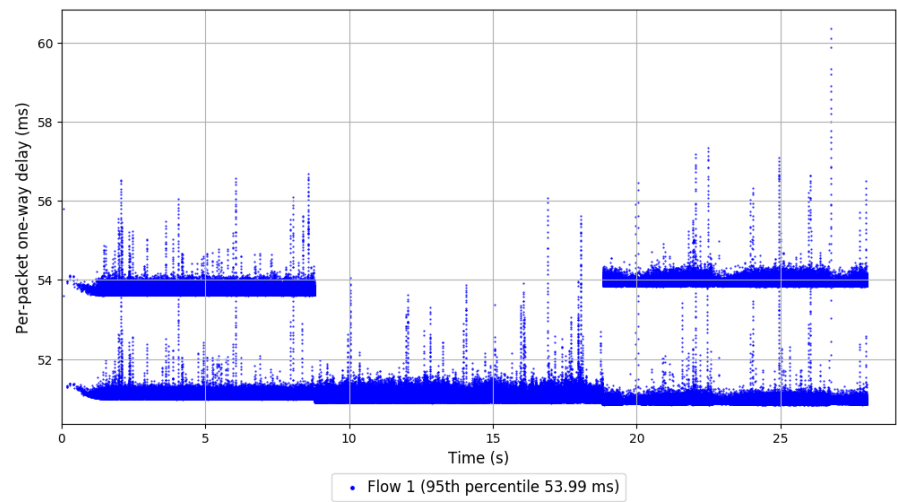
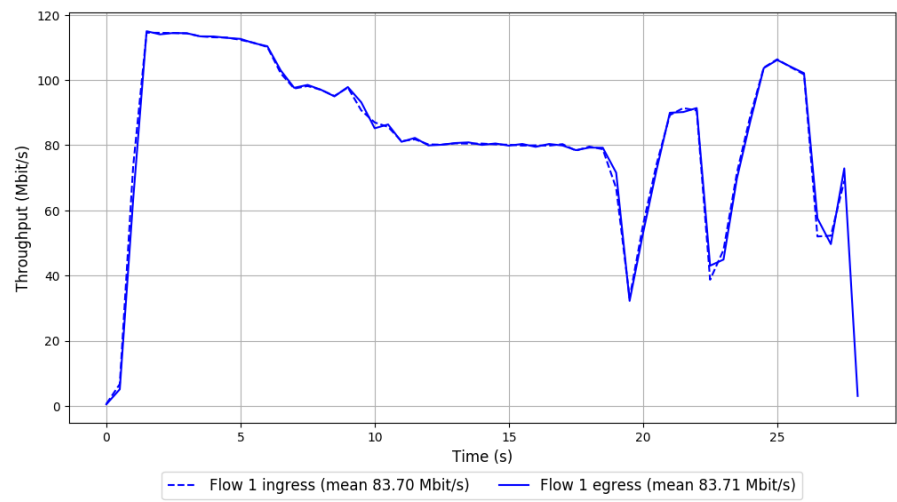
-- Flow 1:

Average throughput: 83.71 Mbit/s

95th percentile per-packet one-way delay: 53.990 ms

Loss rate: 0.00%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-01-09 03:17:55

End at: 2018-01-09 03:18:25

Below is generated by plot.py at 2018-01-09 06:03:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.59 Mbit/s

95th percentile per-packet one-way delay: 53.880 ms

Loss rate: 0.00%

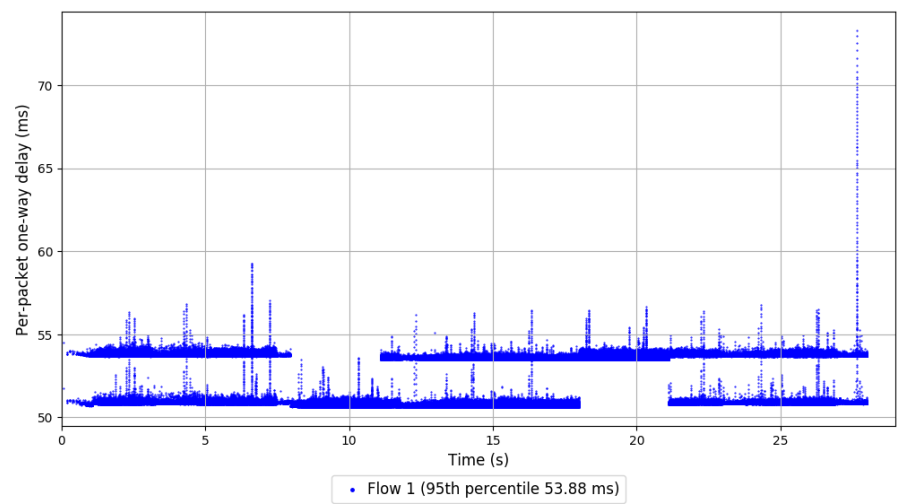
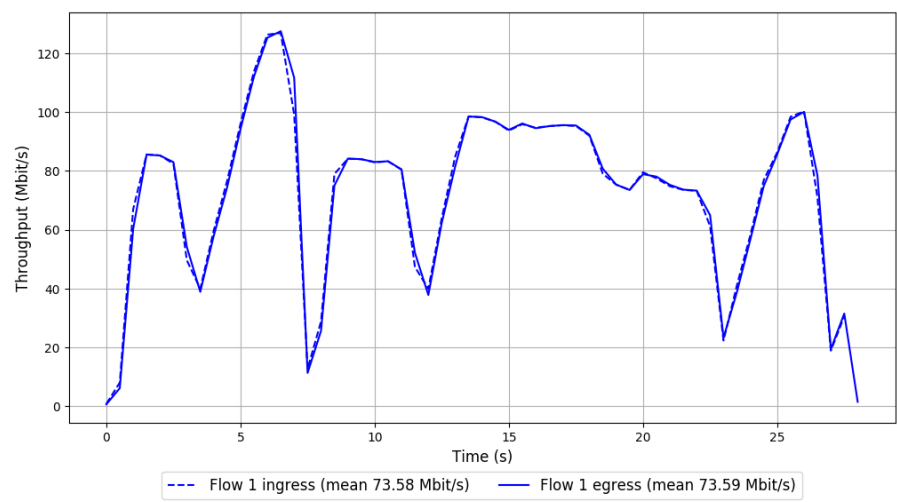
-- Flow 1:

Average throughput: 73.59 Mbit/s

95th percentile per-packet one-way delay: 53.880 ms

Loss rate: 0.00%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-01-09 03:29:18

End at: 2018-01-09 03:29:48

Below is generated by plot.py at 2018-01-09 06:03:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 57.37 Mbit/s

95th percentile per-packet one-way delay: 54.084 ms

Loss rate: 0.01%

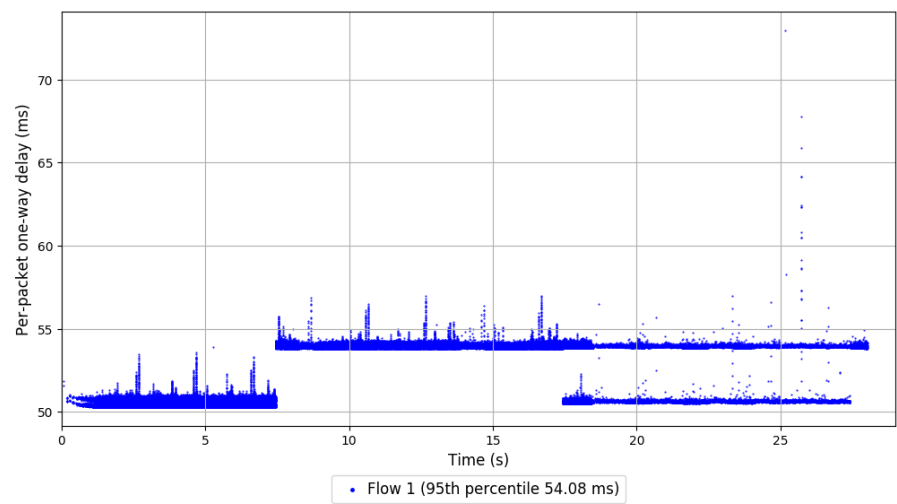
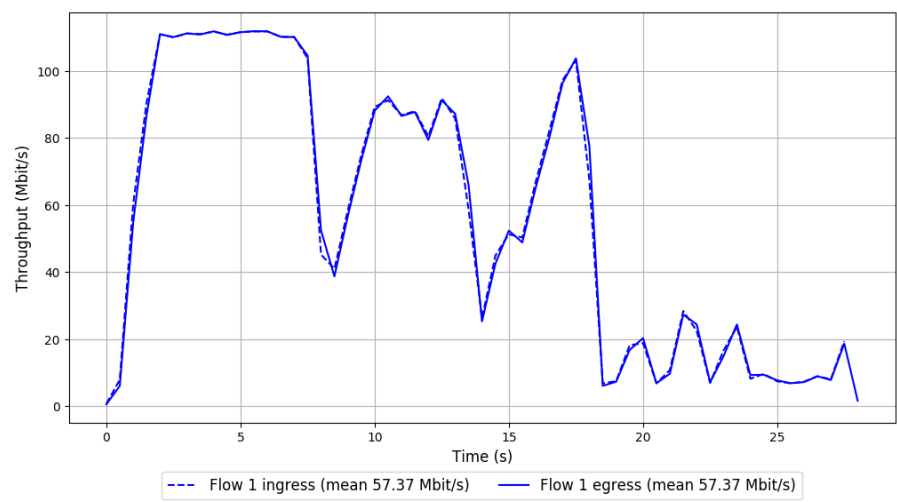
-- Flow 1:

Average throughput: 57.37 Mbit/s

95th percentile per-packet one-way delay: 54.084 ms

Loss rate: 0.01%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-01-09 03:40:31

End at: 2018-01-09 03:41:01

Below is generated by plot.py at 2018-01-09 06:03:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 61.47 Mbit/s

95th percentile per-packet one-way delay: 53.903 ms

Loss rate: 0.01%

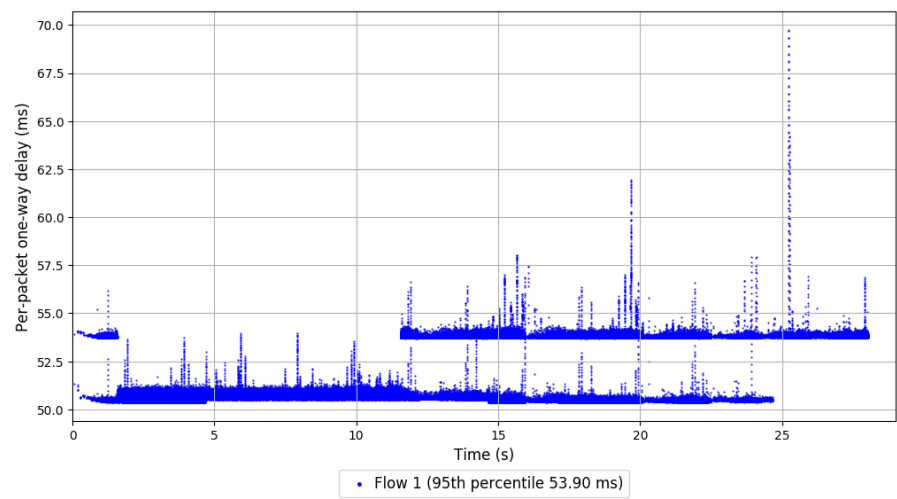
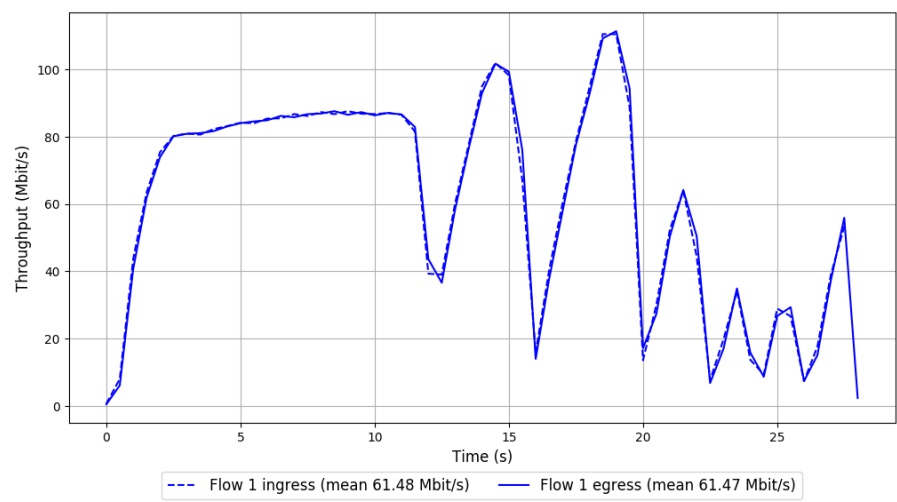
-- Flow 1:

Average throughput: 61.47 Mbit/s

95th percentile per-packet one-way delay: 53.903 ms

Loss rate: 0.01%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-01-09 03:51:34

End at: 2018-01-09 03:52:04

Below is generated by plot.py at 2018-01-09 06:04:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 79.40 Mbit/s

95th percentile per-packet one-way delay: 50.766 ms

Loss rate: 0.00%

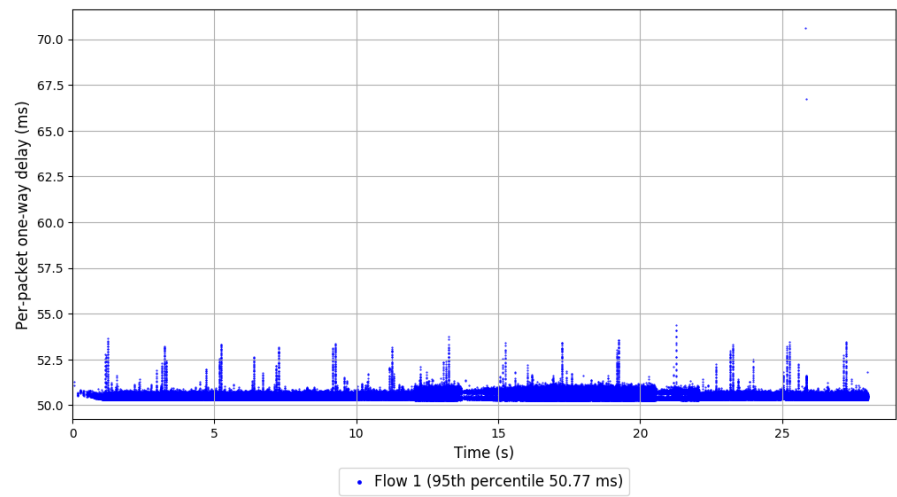
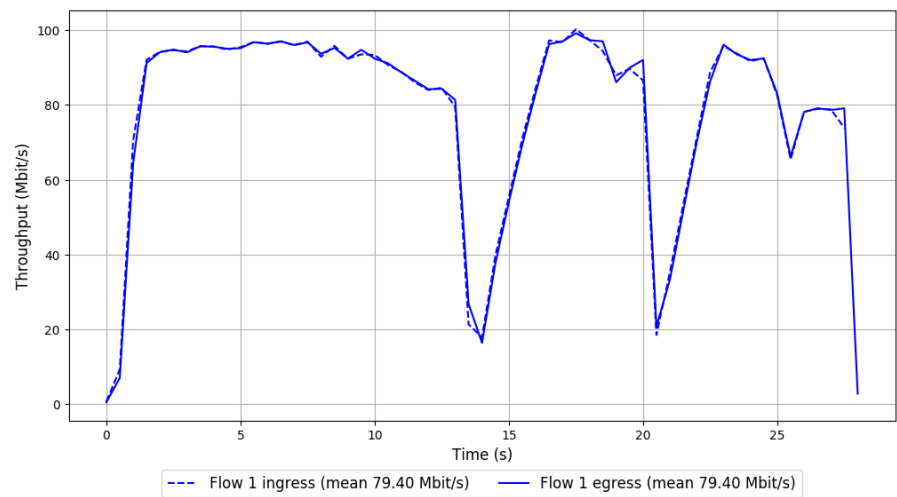
-- Flow 1:

Average throughput: 79.40 Mbit/s

95th percentile per-packet one-way delay: 50.766 ms

Loss rate: 0.00%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-01-09 04:02:46

End at: 2018-01-09 04:03:16

Below is generated by plot.py at 2018-01-09 06:04:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.03 Mbit/s

95th percentile per-packet one-way delay: 50.636 ms

Loss rate: 0.00%

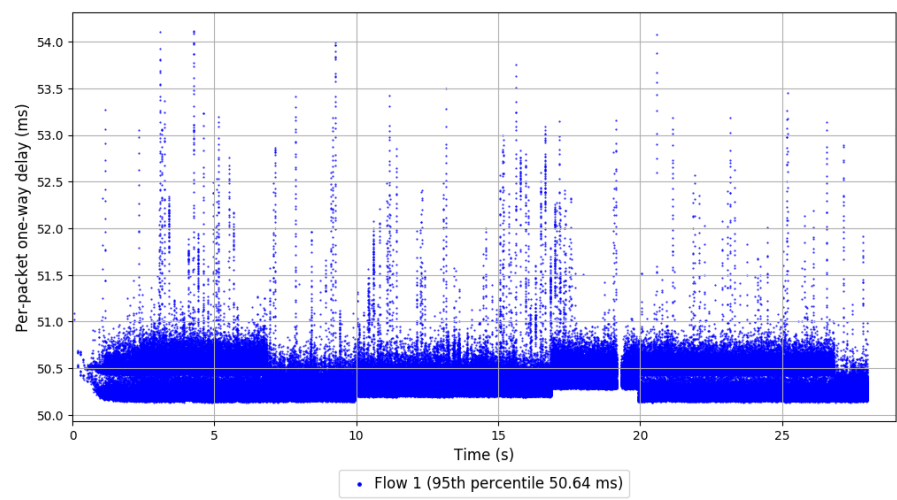
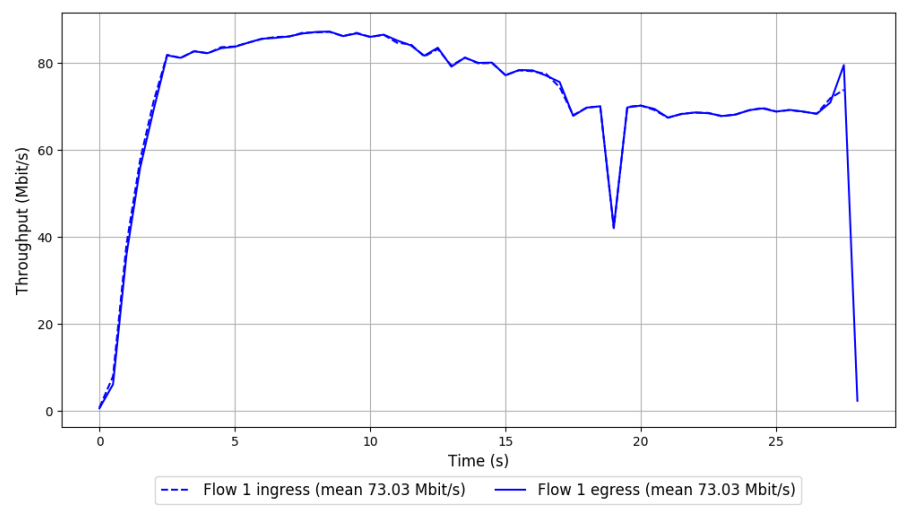
-- Flow 1:

Average throughput: 73.03 Mbit/s

95th percentile per-packet one-way delay: 50.636 ms

Loss rate: 0.00%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-01-09 04:14:01

End at: 2018-01-09 04:14:31

Below is generated by plot.py at 2018-01-09 06:04:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.67 Mbit/s

95th percentile per-packet one-way delay: 53.452 ms

Loss rate: 0.00%

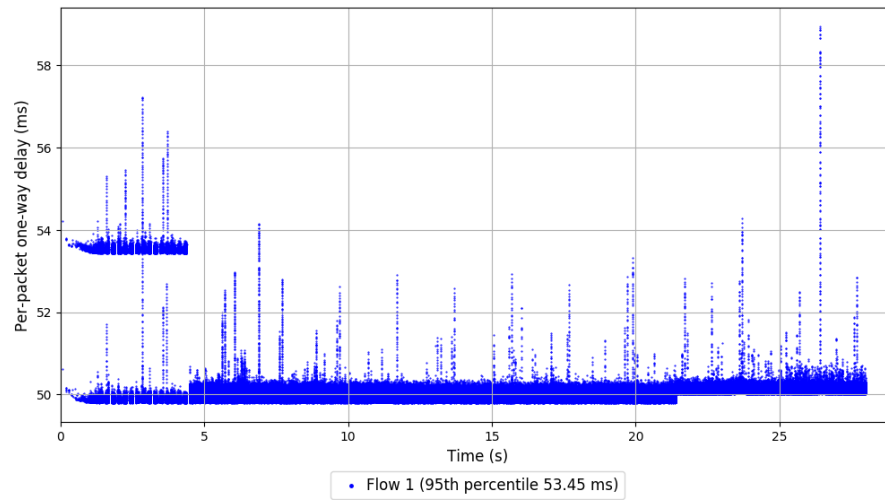
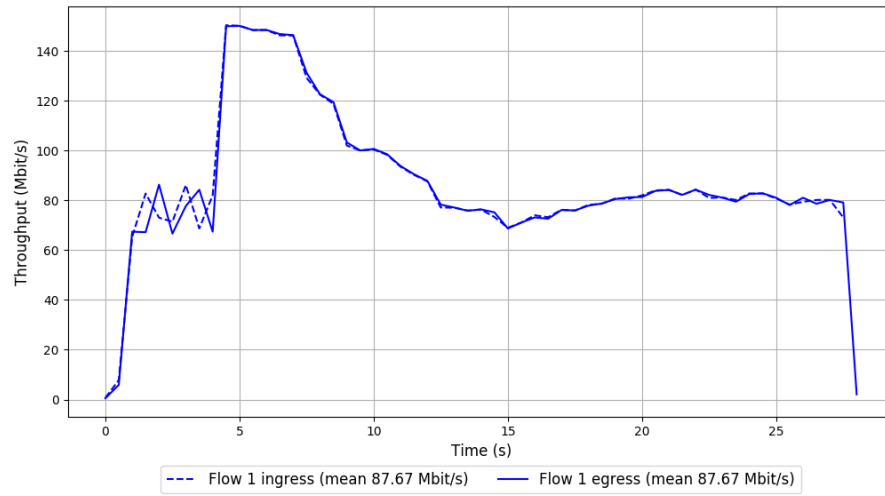
-- Flow 1:

Average throughput: 87.67 Mbit/s

95th percentile per-packet one-way delay: 53.452 ms

Loss rate: 0.00%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-01-09 04:25:43

End at: 2018-01-09 04:26:13

Below is generated by plot.py at 2018-01-09 06:04:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 76.41 Mbit/s

95th percentile per-packet one-way delay: 50.429 ms

Loss rate: 0.00%

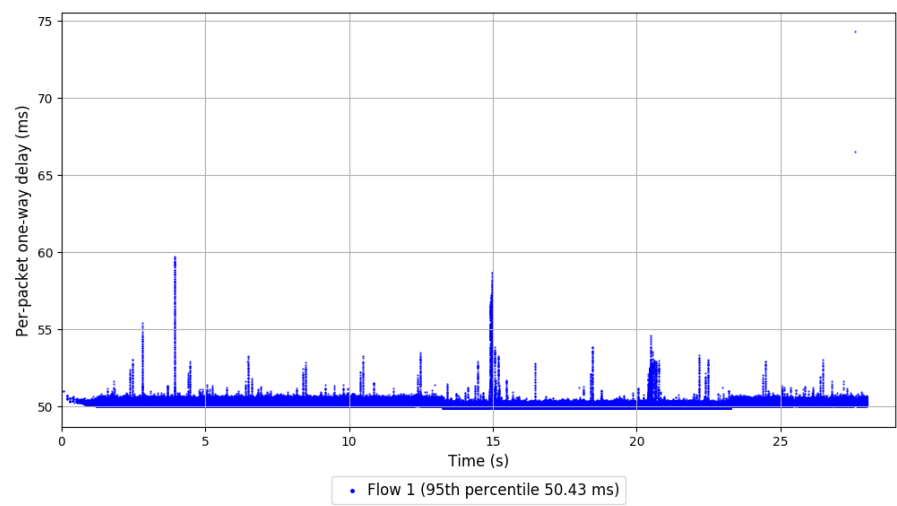
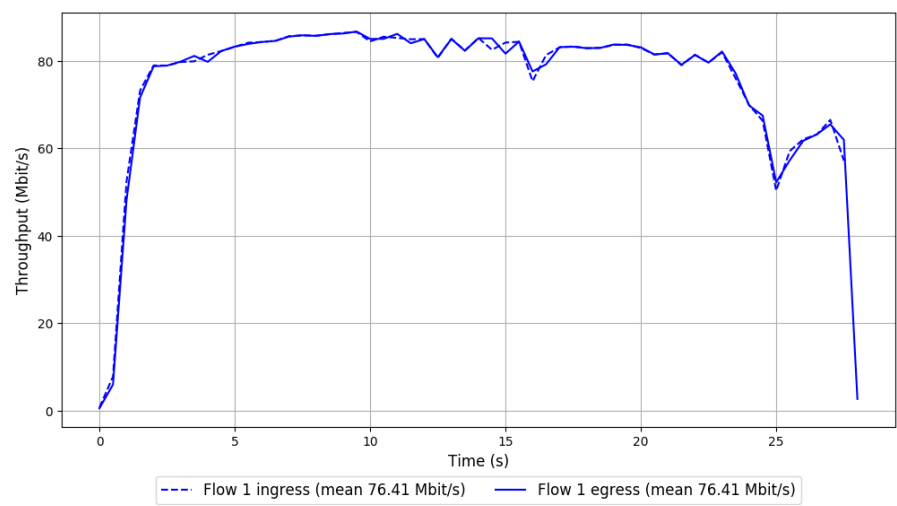
-- Flow 1:

Average throughput: 76.41 Mbit/s

95th percentile per-packet one-way delay: 50.429 ms

Loss rate: 0.00%

Run 10: Report of Copa — Data Link

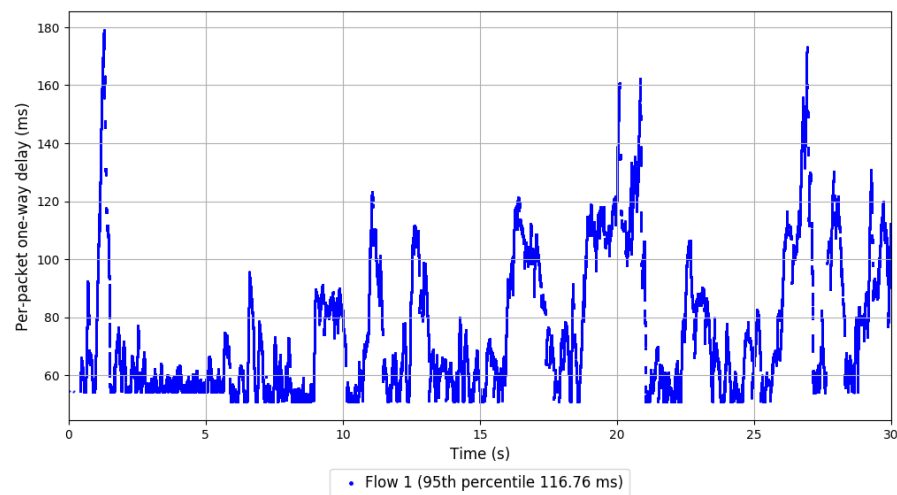
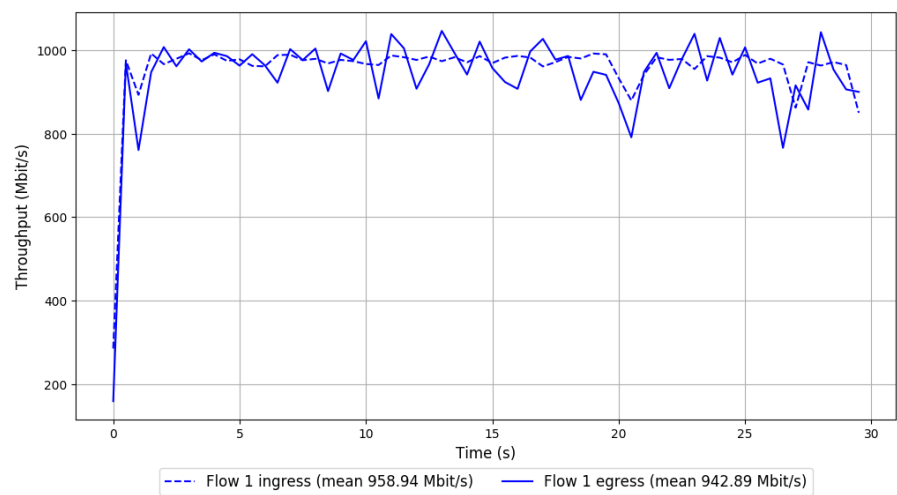


```
Run 1: Statistics of FillP

Start at: 2018-01-09 02:49:02
End at: 2018-01-09 02:49:32

# Below is generated by plot.py at 2018-01-09 06:19:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 942.89 Mbit/s
95th percentile per-packet one-way delay: 116.756 ms
Loss rate: 1.68%
-- Flow 1:
Average throughput: 942.89 Mbit/s
95th percentile per-packet one-way delay: 116.756 ms
Loss rate: 1.68%
```


Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-01-09 03:00:25

End at: 2018-01-09 03:00:55

Below is generated by plot.py at 2018-01-09 06:19:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 956.62 Mbit/s

95th percentile per-packet one-way delay: 143.438 ms

Loss rate: 1.27%

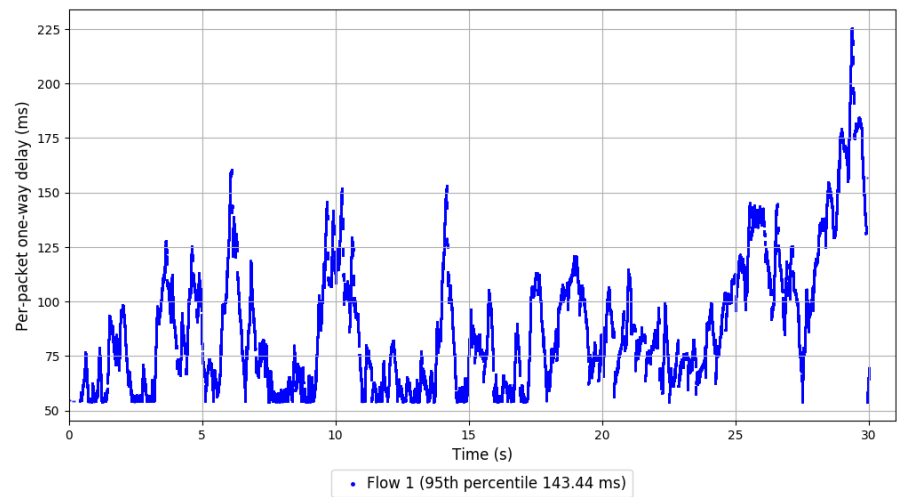
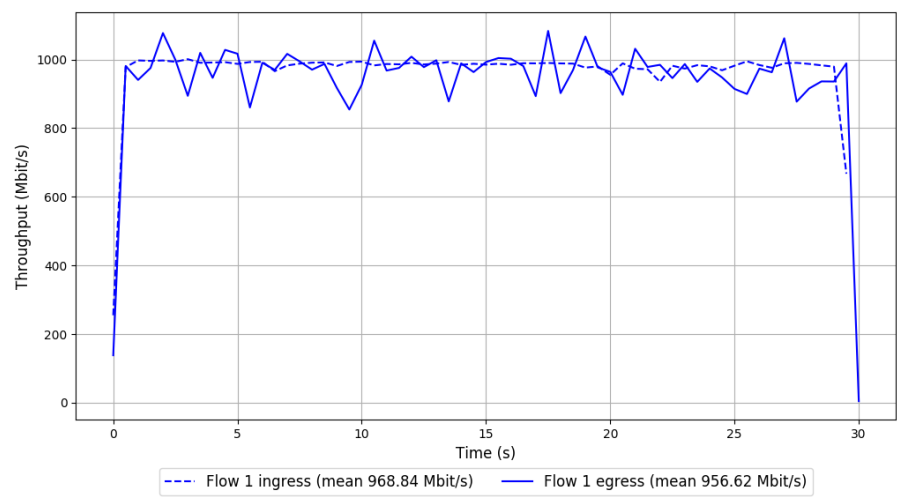
-- Flow 1:

Average throughput: 956.62 Mbit/s

95th percentile per-packet one-way delay: 143.438 ms

Loss rate: 1.27%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-01-09 03:11:49

End at: 2018-01-09 03:12:19

Below is generated by plot.py at 2018-01-09 06:19:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 944.28 Mbit/s

95th percentile per-packet one-way delay: 125.796 ms

Loss rate: 3.19%

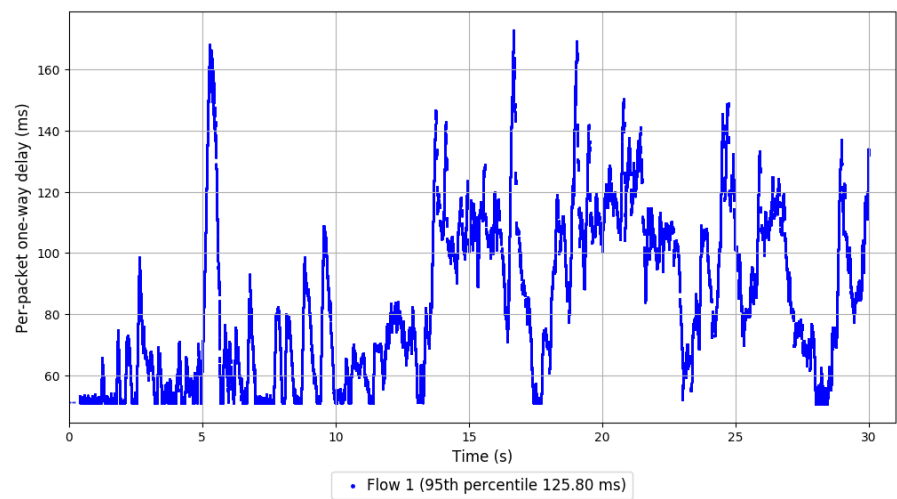
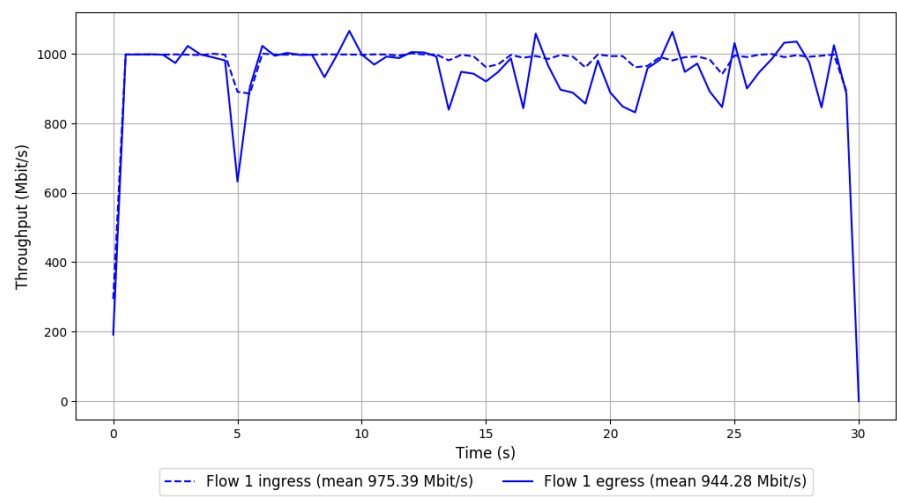
-- Flow 1:

Average throughput: 944.28 Mbit/s

95th percentile per-packet one-way delay: 125.796 ms

Loss rate: 3.19%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-01-09 03:23:10

End at: 2018-01-09 03:23:40

Below is generated by plot.py at 2018-01-09 06:20:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 962.81 Mbit/s

95th percentile per-packet one-way delay: 103.329 ms

Loss rate: 0.50%

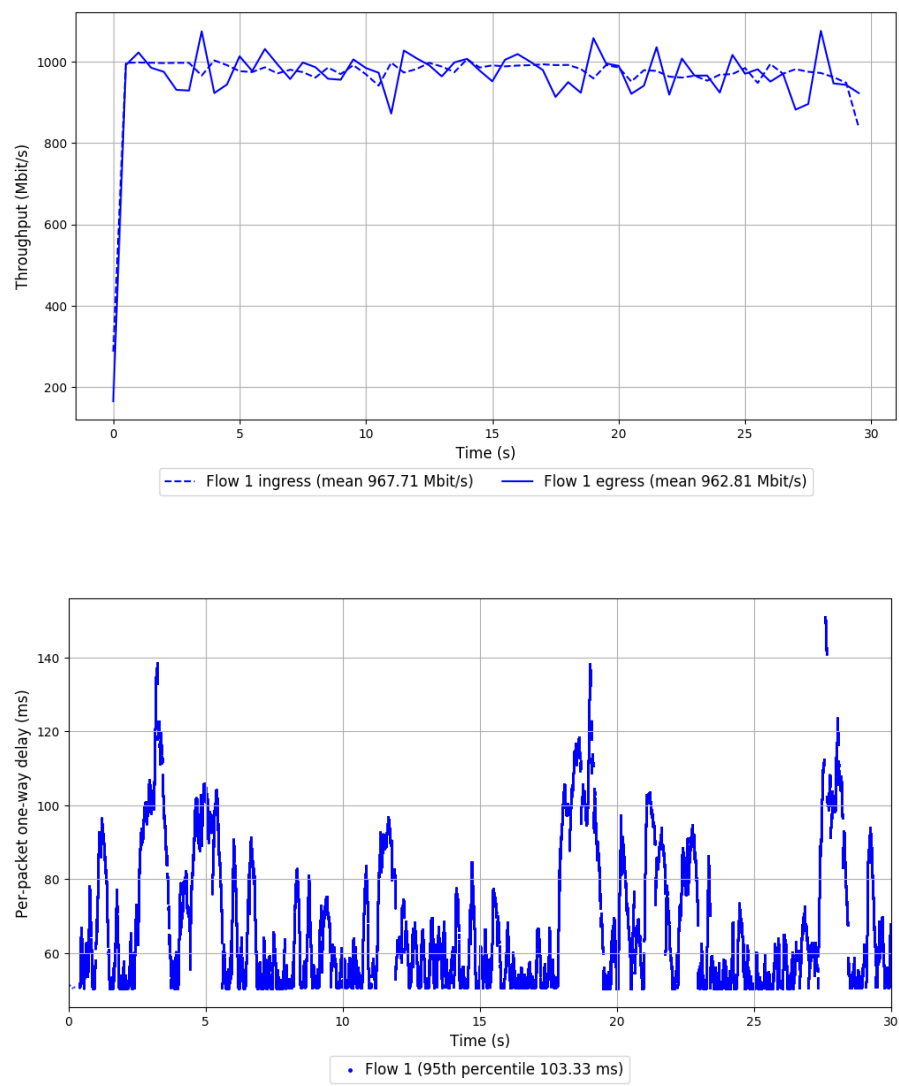
-- Flow 1:

Average throughput: 962.81 Mbit/s

95th percentile per-packet one-way delay: 103.329 ms

Loss rate: 0.50%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-01-09 03:34:23

End at: 2018-01-09 03:34:53

Below is generated by plot.py at 2018-01-09 06:20:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 947.88 Mbit/s

95th percentile per-packet one-way delay: 187.097 ms

Loss rate: 1.74%

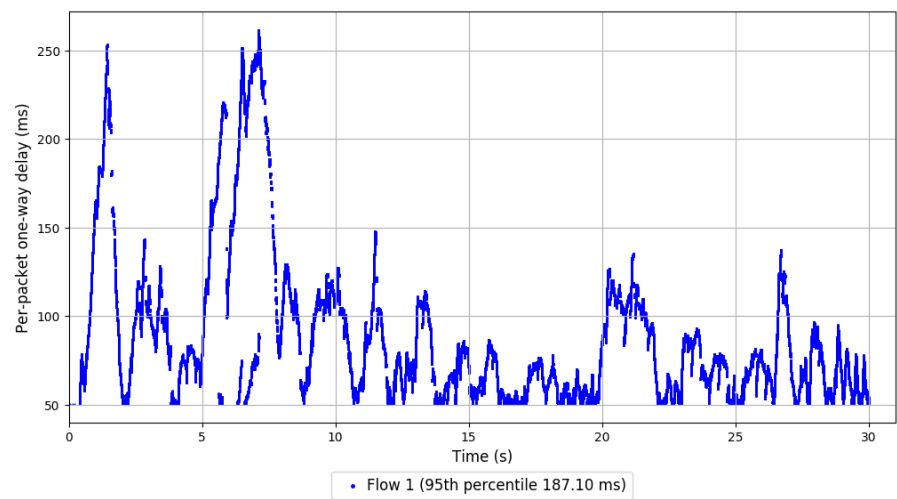
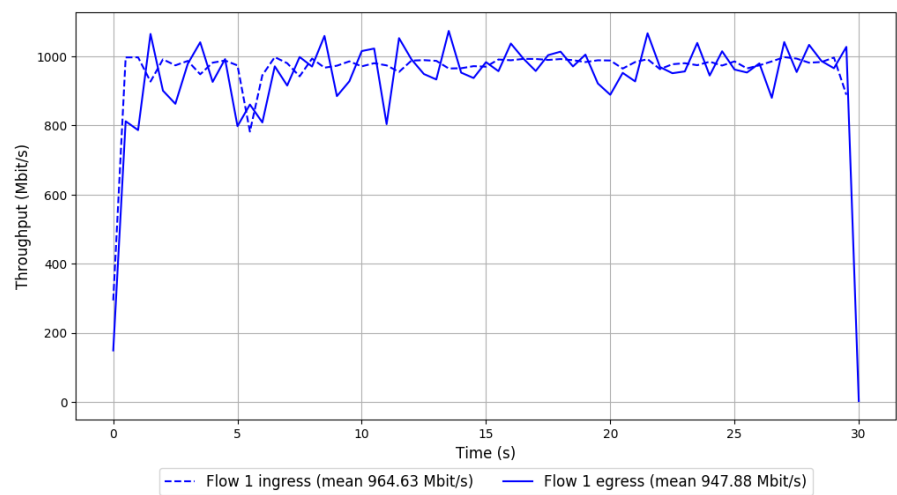
-- Flow 1:

Average throughput: 947.88 Mbit/s

95th percentile per-packet one-way delay: 187.097 ms

Loss rate: 1.74%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-01-09 03:45:36

End at: 2018-01-09 03:46:06

Below is generated by plot.py at 2018-01-09 06:20:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 858.28 Mbit/s

95th percentile per-packet one-way delay: 142.402 ms

Loss rate: 9.16%

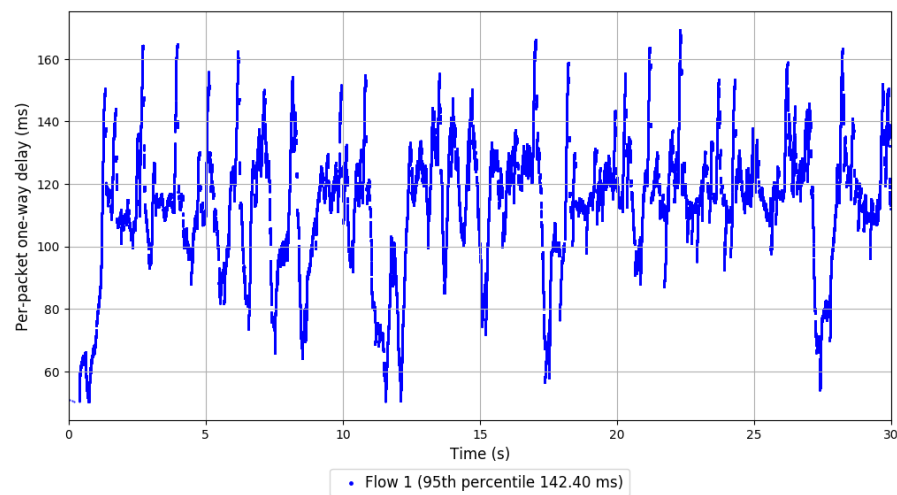
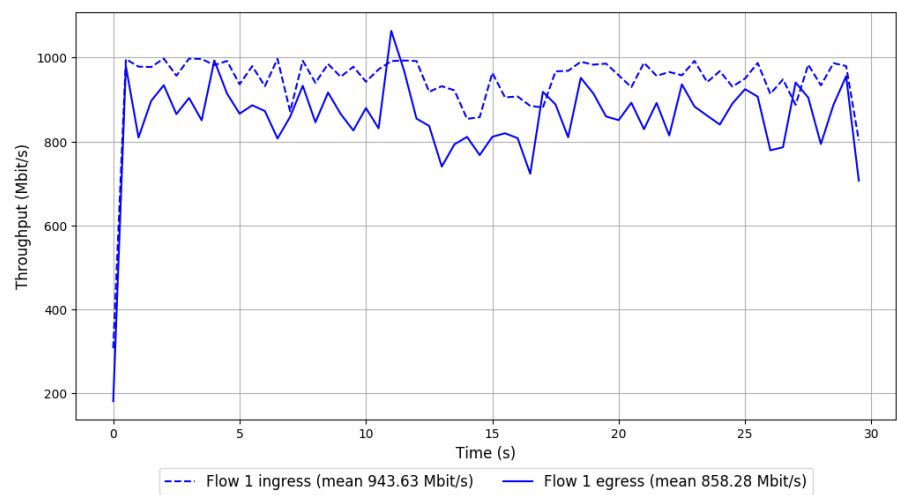
-- Flow 1:

Average throughput: 858.28 Mbit/s

95th percentile per-packet one-way delay: 142.402 ms

Loss rate: 9.16%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-01-09 03:56:49

End at: 2018-01-09 03:57:19

Below is generated by plot.py at 2018-01-09 06:20:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 622.58 Mbit/s

95th percentile per-packet one-way delay: 130.839 ms

Loss rate: 5.73%

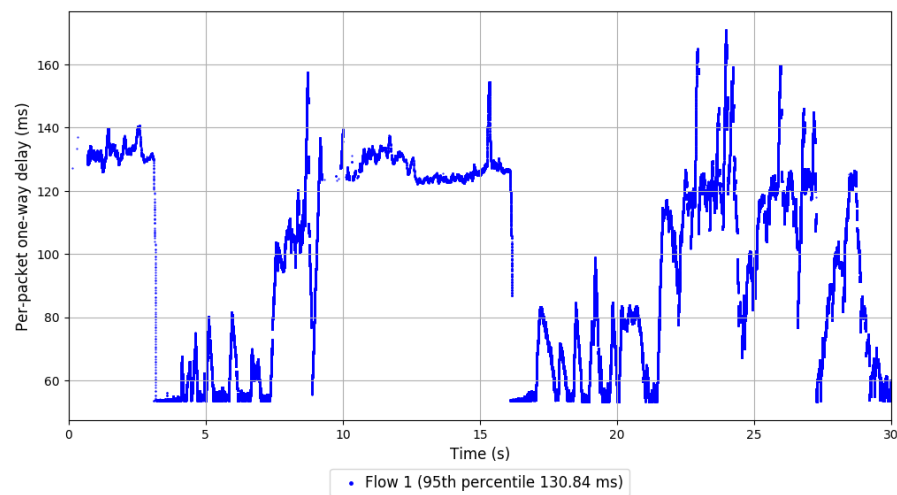
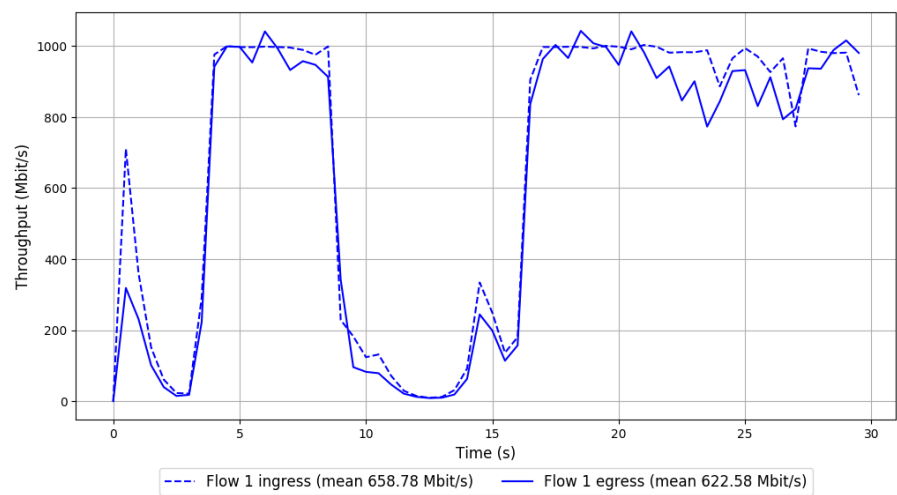
-- Flow 1:

Average throughput: 622.58 Mbit/s

95th percentile per-packet one-way delay: 130.839 ms

Loss rate: 5.73%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-01-09 04:08:02

End at: 2018-01-09 04:08:32

Below is generated by plot.py at 2018-01-09 06:20:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 917.44 Mbit/s

95th percentile per-packet one-way delay: 144.912 ms

Loss rate: 3.96%

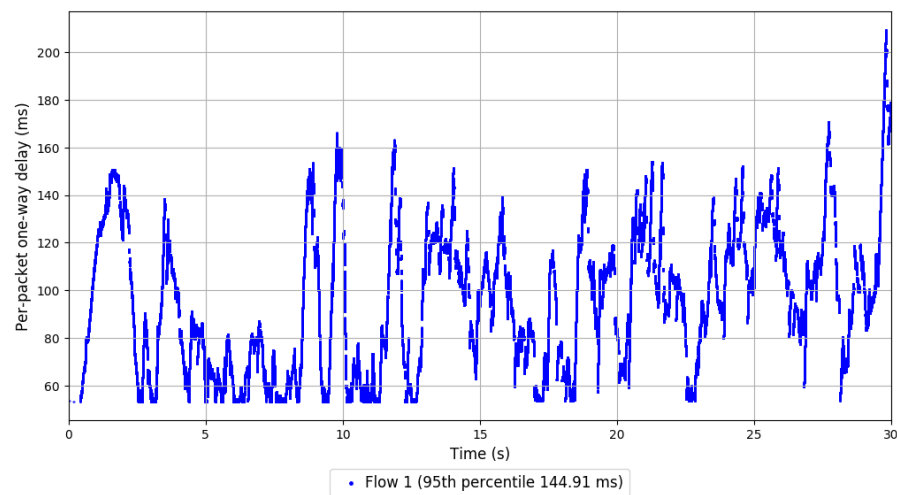
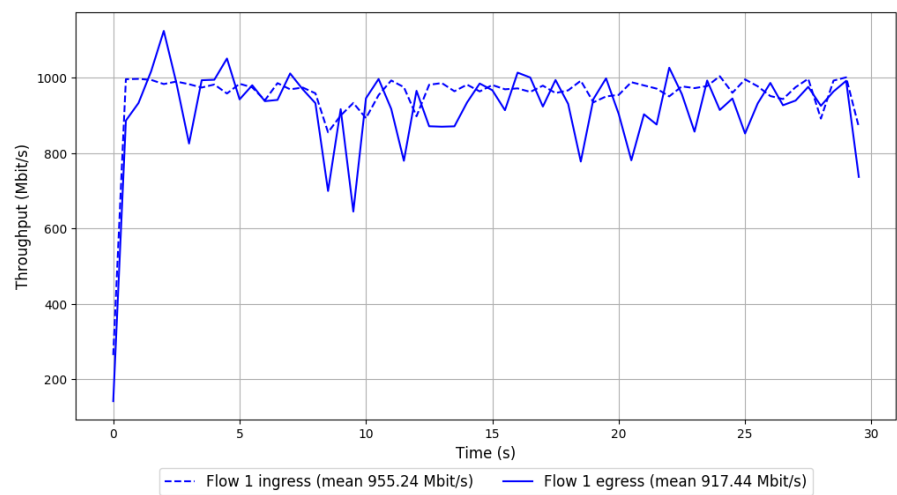
-- Flow 1:

Average throughput: 917.44 Mbit/s

95th percentile per-packet one-way delay: 144.912 ms

Loss rate: 3.96%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-01-09 04:19:21

End at: 2018-01-09 04:19:51

Below is generated by plot.py at 2018-01-09 06:26:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 956.16 Mbit/s

95th percentile per-packet one-way delay: 113.999 ms

Loss rate: 1.38%

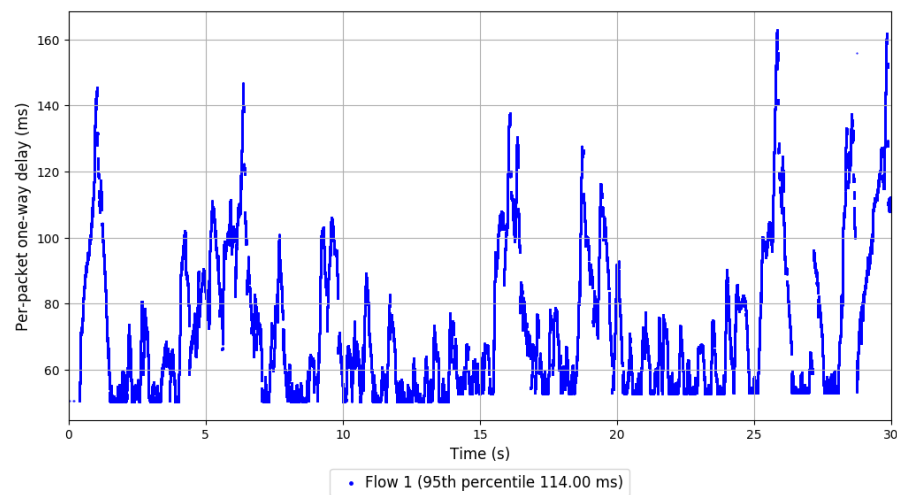
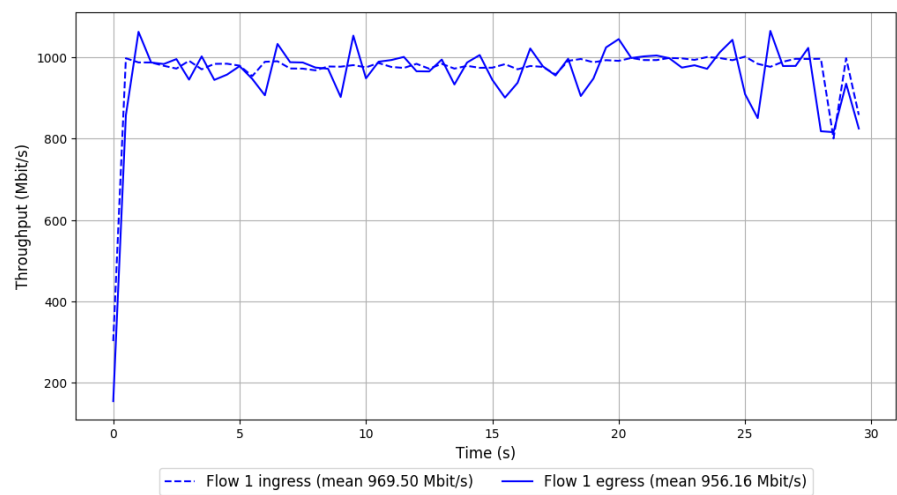
-- Flow 1:

Average throughput: 956.16 Mbit/s

95th percentile per-packet one-way delay: 113.999 ms

Loss rate: 1.38%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-01-09 04:31:01

End at: 2018-01-09 04:31:31

Below is generated by plot.py at 2018-01-09 06:26:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 945.71 Mbit/s

95th percentile per-packet one-way delay: 118.614 ms

Loss rate: 1.39%

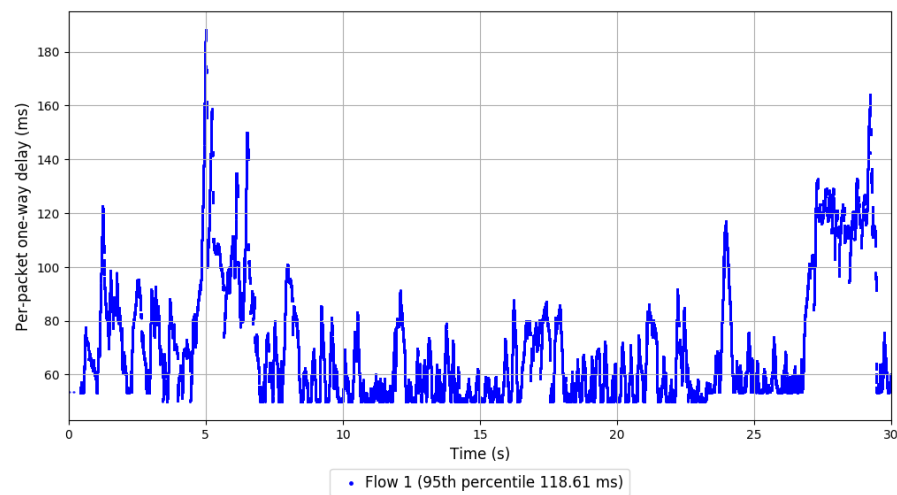
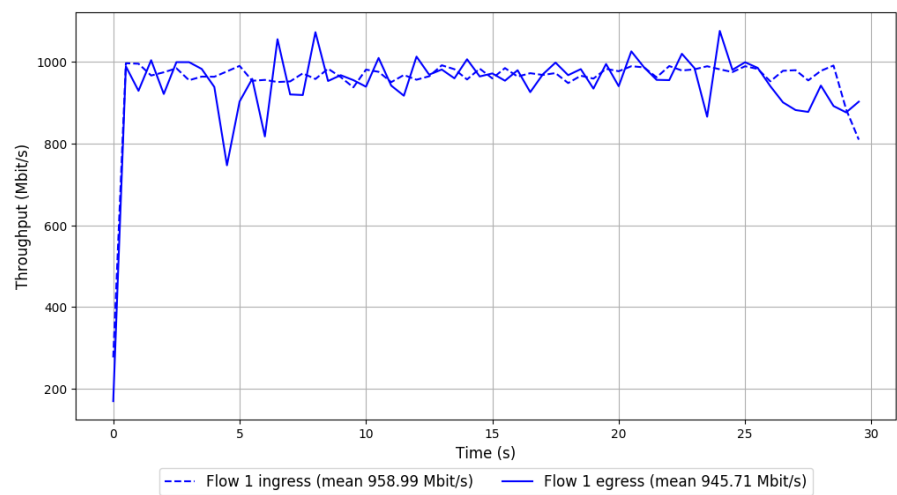
-- Flow 1:

Average throughput: 945.71 Mbit/s

95th percentile per-packet one-way delay: 118.614 ms

Loss rate: 1.39%

Run 10: Report of FillP — Data Link

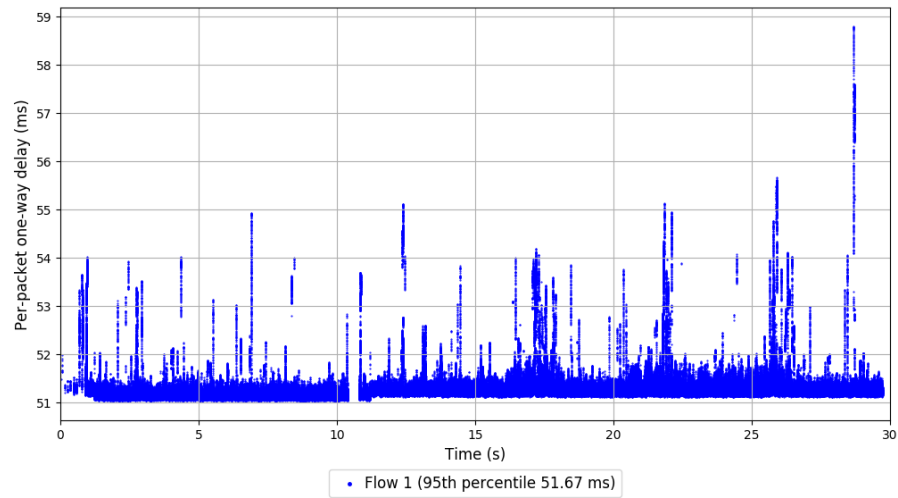
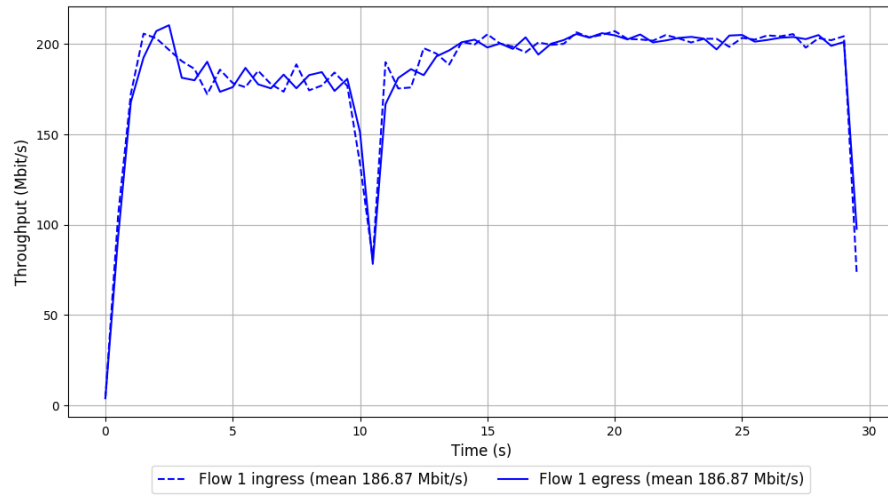


```
Run 1: Statistics of Indigo

Start at: 2018-01-09 02:52:56
End at: 2018-01-09 02:53:26

# Below is generated by plot.py at 2018-01-09 06:26:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 186.87 Mbit/s
95th percentile per-packet one-way delay: 51.667 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 186.87 Mbit/s
95th percentile per-packet one-way delay: 51.667 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo — Data Link

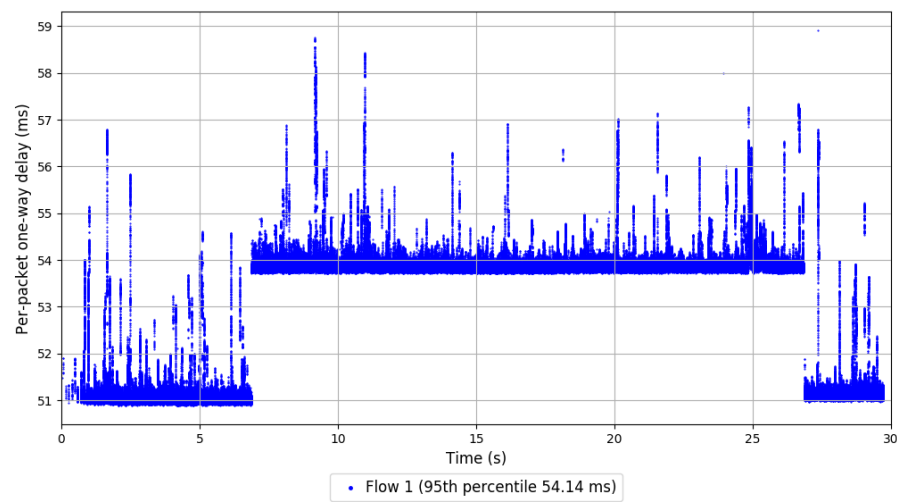
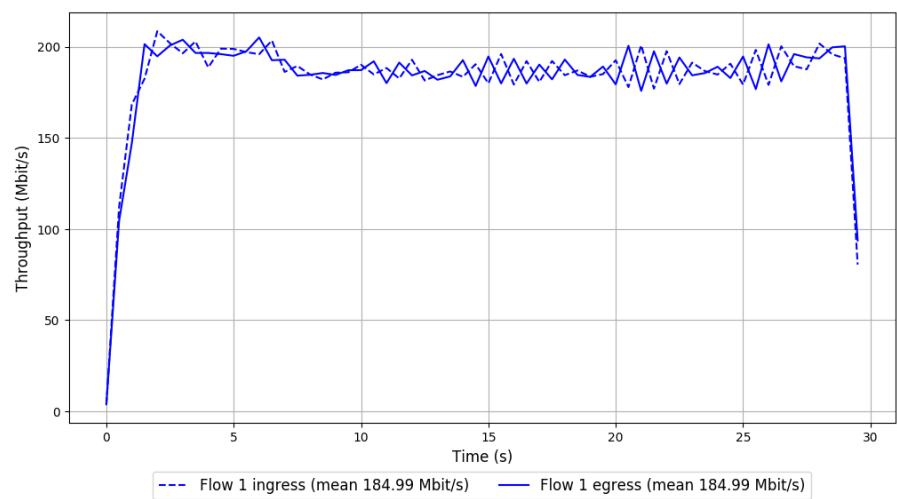


```
Run 2: Statistics of Indigo

Start at: 2018-01-09 03:04:21
End at: 2018-01-09 03:04:51

# Below is generated by plot.py at 2018-01-09 06:26:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 184.99 Mbit/s
95th percentile per-packet one-way delay: 54.137 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 184.99 Mbit/s
95th percentile per-packet one-way delay: 54.137 ms
Loss rate: 0.00%
```

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2018-01-09 03:15:43

End at: 2018-01-09 03:16:13

Below is generated by plot.py at 2018-01-09 06:26:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 192.30 Mbit/s

95th percentile per-packet one-way delay: 53.701 ms

Loss rate: 0.01%

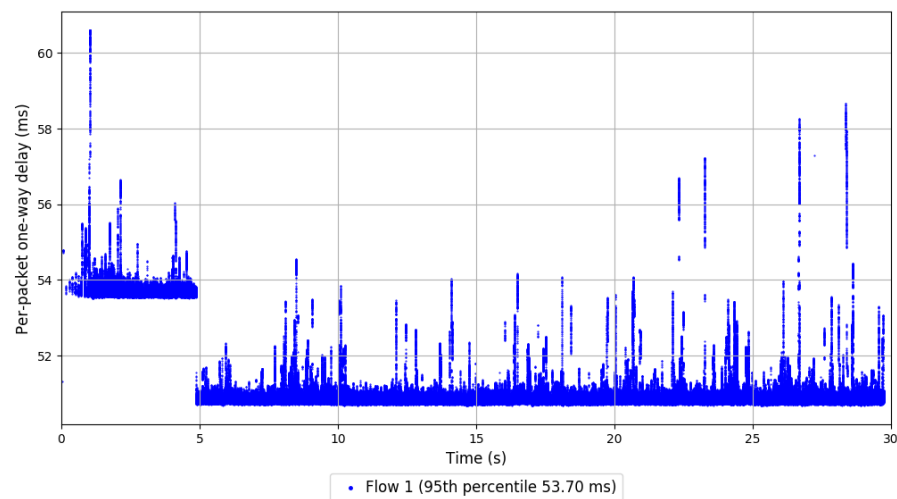
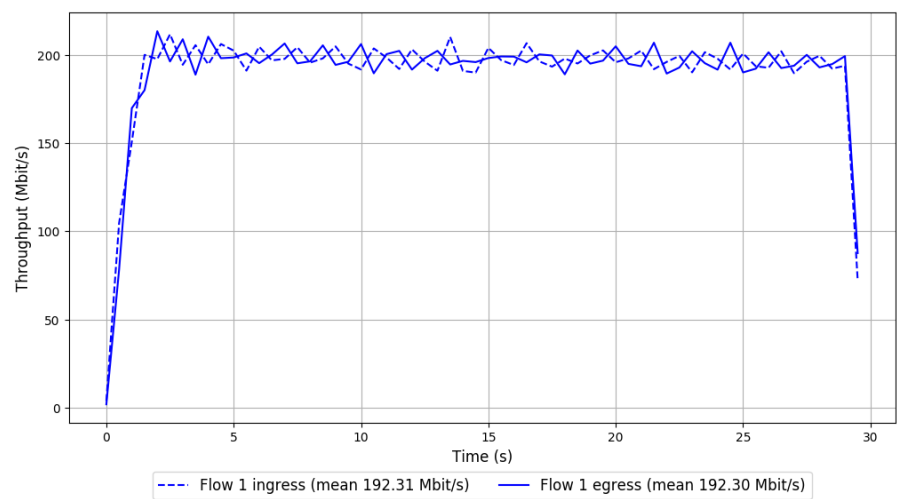
-- Flow 1:

Average throughput: 192.30 Mbit/s

95th percentile per-packet one-way delay: 53.701 ms

Loss rate: 0.01%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2018-01-09 03:27:01

End at: 2018-01-09 03:27:31

Below is generated by plot.py at 2018-01-09 06:26:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 194.87 Mbit/s

95th percentile per-packet one-way delay: 51.224 ms

Loss rate: 0.00%

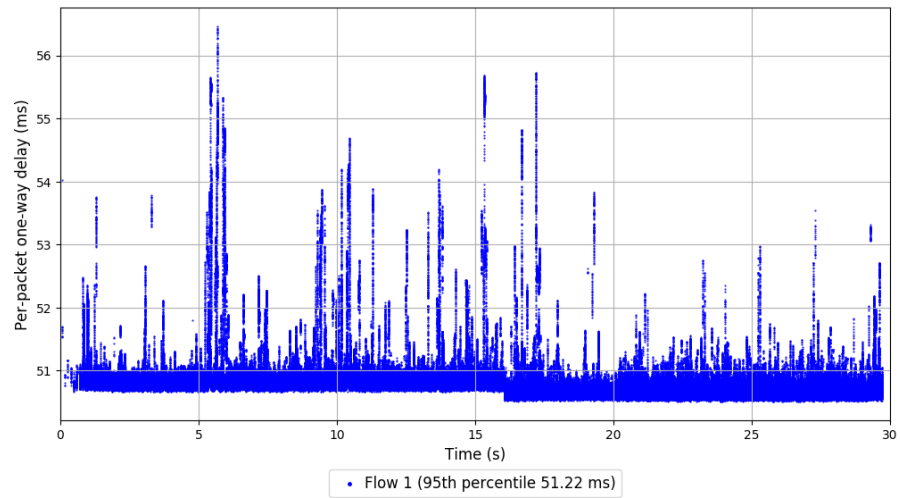
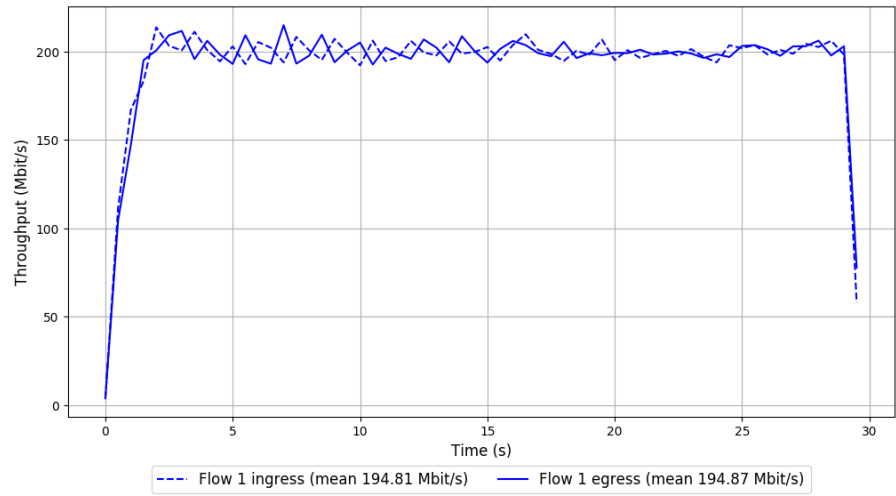
-- Flow 1:

Average throughput: 194.87 Mbit/s

95th percentile per-packet one-way delay: 51.224 ms

Loss rate: 0.00%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2018-01-09 03:38:14

End at: 2018-01-09 03:38:45

Below is generated by plot.py at 2018-01-09 06:26:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 190.05 Mbit/s

95th percentile per-packet one-way delay: 54.003 ms

Loss rate: 0.01%

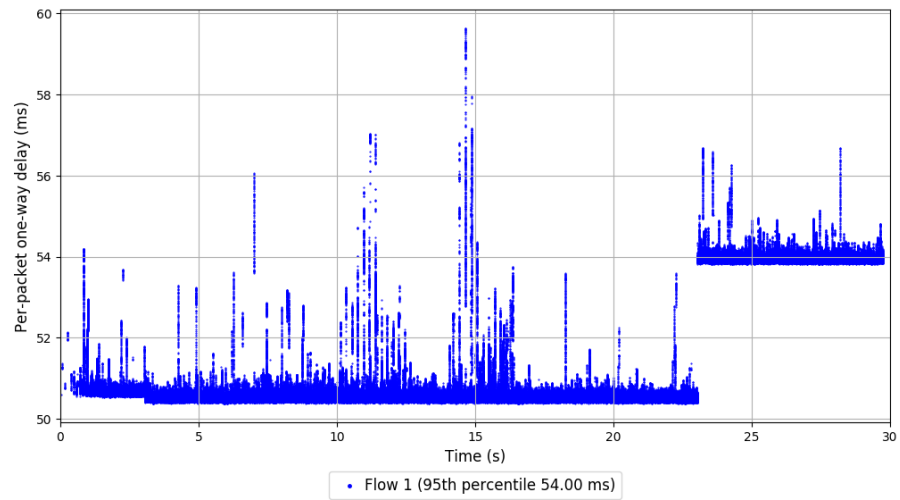
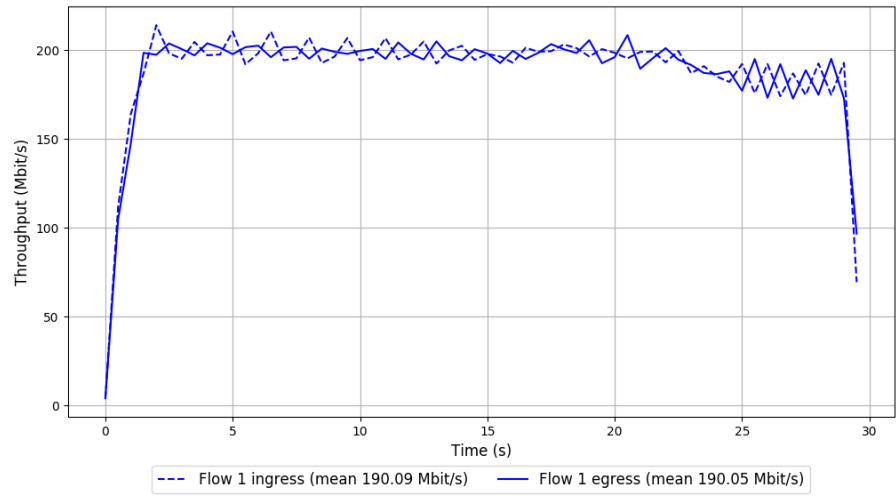
-- Flow 1:

Average throughput: 190.05 Mbit/s

95th percentile per-packet one-way delay: 54.003 ms

Loss rate: 0.01%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2018-01-09 03:49:29

End at: 2018-01-09 03:49:59

Below is generated by plot.py at 2018-01-09 06:26:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 190.99 Mbit/s

95th percentile per-packet one-way delay: 53.888 ms

Loss rate: 0.16%

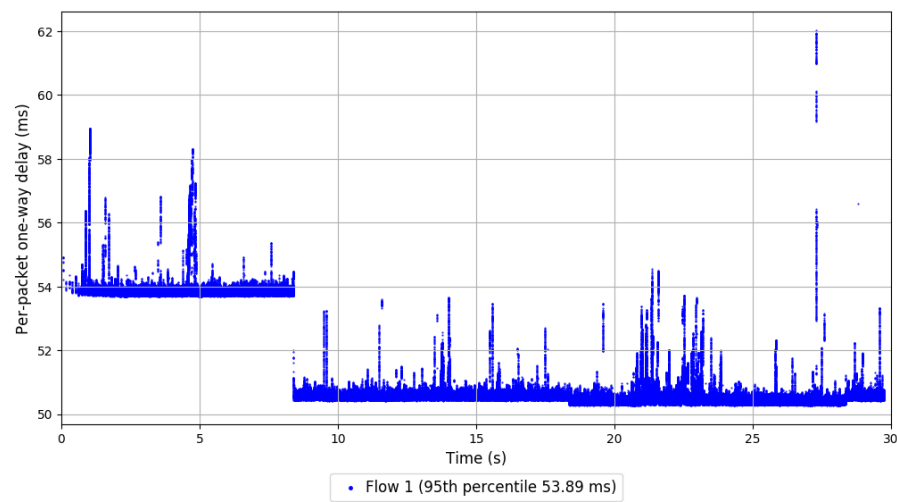
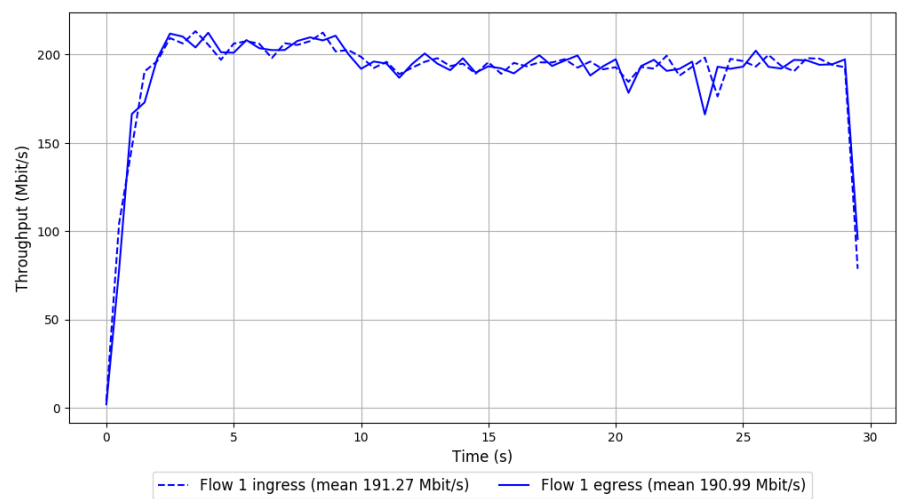
-- Flow 1:

Average throughput: 190.99 Mbit/s

95th percentile per-packet one-way delay: 53.888 ms

Loss rate: 0.16%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2018-01-09 04:00:30

End at: 2018-01-09 04:01:00

Below is generated by plot.py at 2018-01-09 06:26:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 189.97 Mbit/s

95th percentile per-packet one-way delay: 53.851 ms

Loss rate: 0.00%

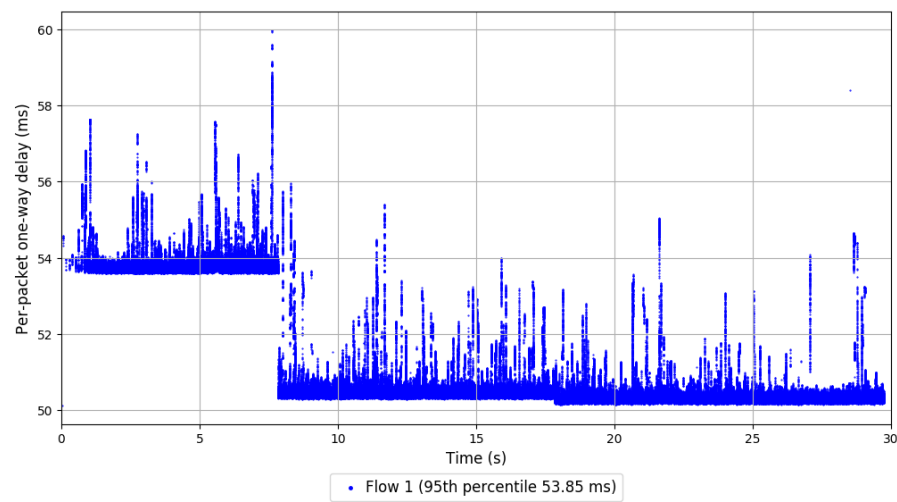
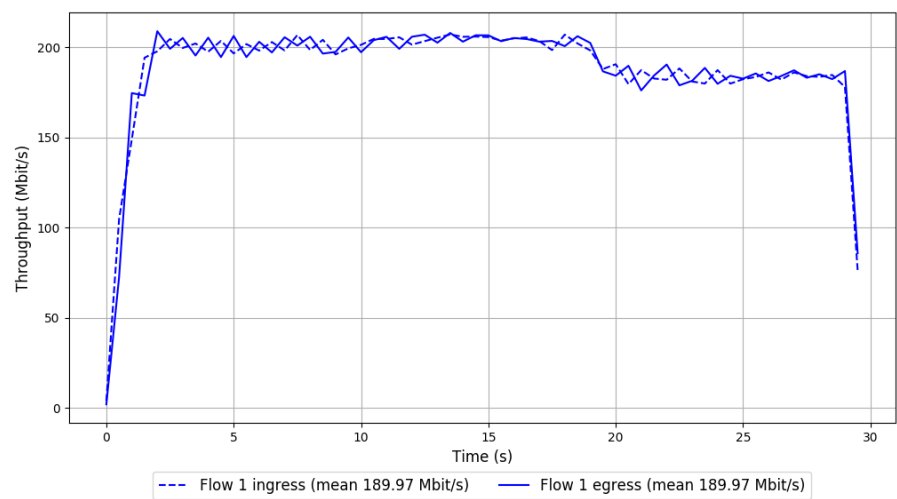
-- Flow 1:

Average throughput: 189.97 Mbit/s

95th percentile per-packet one-way delay: 53.851 ms

Loss rate: 0.00%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2018-01-09 04:11:47

End at: 2018-01-09 04:12:17

Below is generated by plot.py at 2018-01-09 06:26:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 185.19 Mbit/s

95th percentile per-packet one-way delay: 53.793 ms

Loss rate: 0.19%

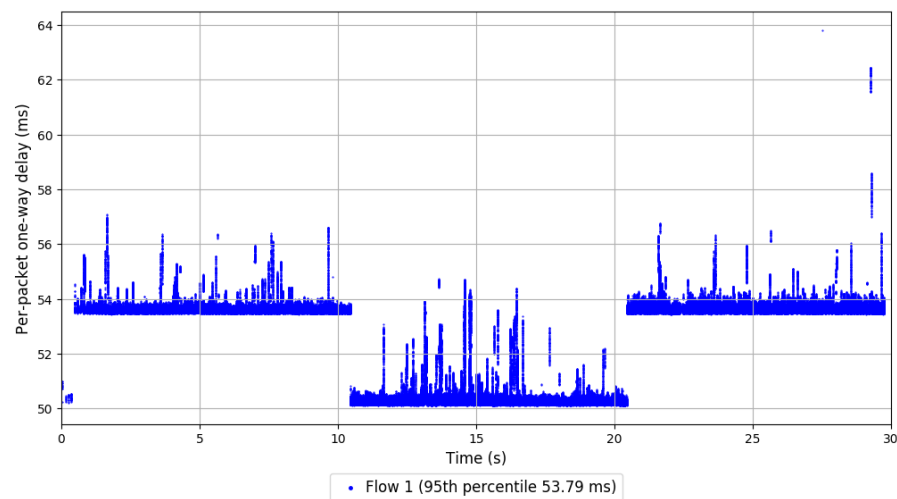
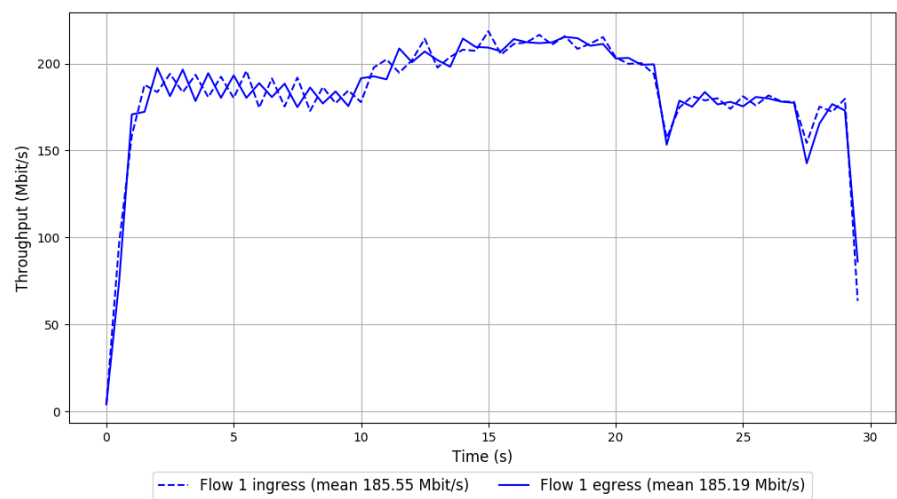
-- Flow 1:

Average throughput: 185.19 Mbit/s

95th percentile per-packet one-way delay: 53.793 ms

Loss rate: 0.19%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2018-01-09 04:23:26

End at: 2018-01-09 04:23:56

Below is generated by plot.py at 2018-01-09 06:26:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 182.44 Mbit/s

95th percentile per-packet one-way delay: 54.019 ms

Loss rate: 0.21%

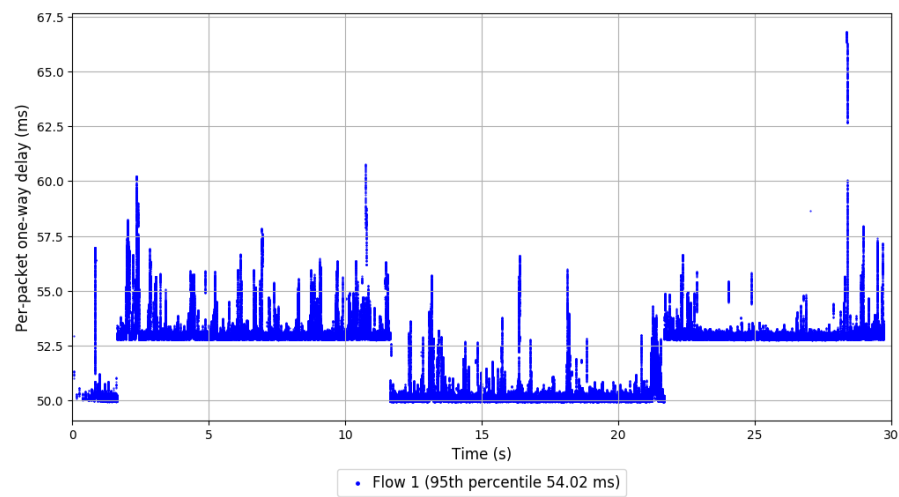
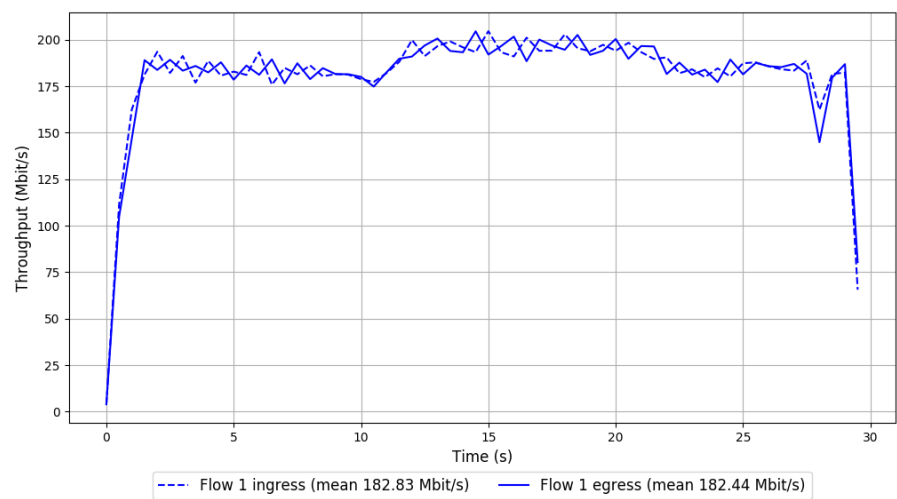
-- Flow 1:

Average throughput: 182.44 Mbit/s

95th percentile per-packet one-way delay: 54.019 ms

Loss rate: 0.21%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2018-01-09 04:34:54

End at: 2018-01-09 04:35:24

Below is generated by plot.py at 2018-01-09 06:26:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 187.38 Mbit/s

95th percentile per-packet one-way delay: 53.594 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 187.38 Mbit/s

95th percentile per-packet one-way delay: 53.594 ms

Loss rate: 0.00%

Run 10: Report of Indigo — Data Link

