

Pantheon Report

Generated at 2018-01-02 08:39:56 (UTC).

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

Repeated the test of 14 congestion control schemes 10 times.

Each test lasted for 30 seconds running 1 flow.

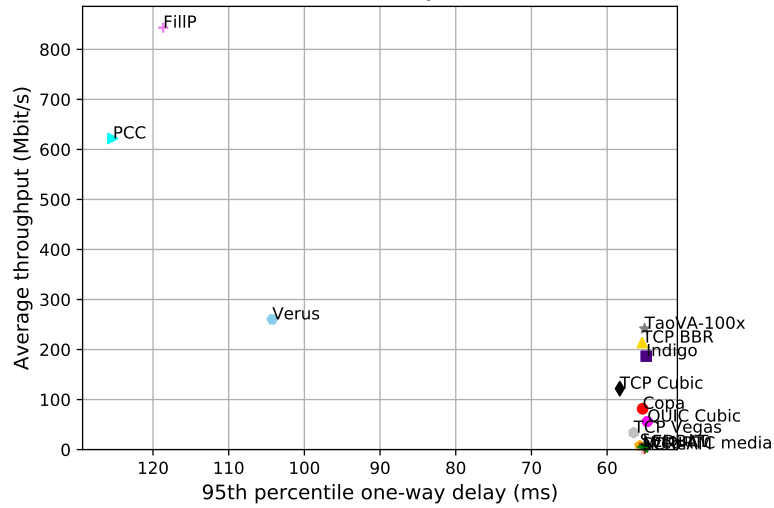
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

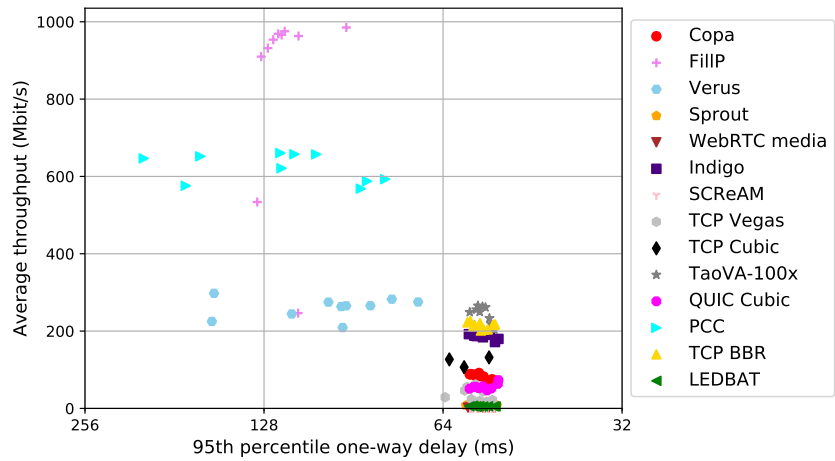
Git summary:

```
branch: master @ 904a5750834816b1e46a2c86405d707788d27c16
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ dcaef6b00654e660f73f7ed679d2eab61ce08639
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 London Ethernet to GCE Iowa Ethernet, 10 runs of 30s each per scheme
(mean of all runs by scheme)



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



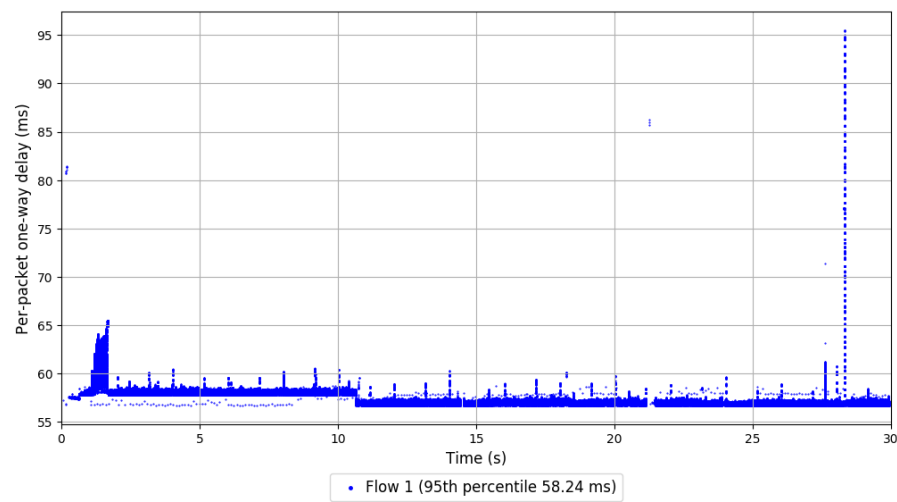
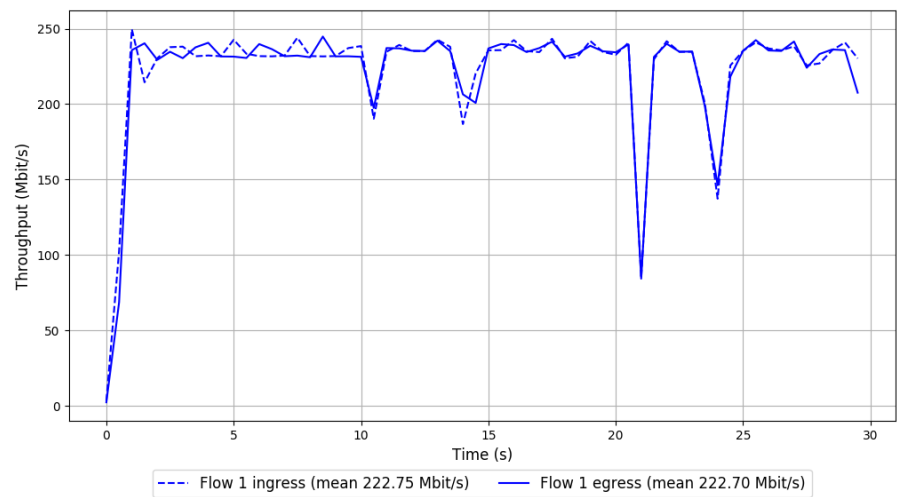
scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	10	213.94	55.36	0.46
TCP Cubic	3	121.77	58.33	0.51
LEDBAT	10	5.35	55.31	1.60
PCC	10	621.94	125.30	1.12
QUIC Cubic	10	56.07	54.68	0.50
SCReAM	10	0.22	55.34	0.35
WebRTC media	9	2.26	55.05	0.43
Sprout	10	7.71	55.68	1.59
TaoVA-100x	10	241.54	55.05	0.35
TCP Vegas	10	33.74	56.49	1.07
Verus	10	260.31	104.24	2.22
Copa	10	81.59	55.31	0.24
FillP	10	843.41	118.65	2.06
Indigo	10	186.83	54.84	0.55

```
Run 1: Statistics of TCP BBR

Start at: 2018-01-02 03:47:16
End at: 2018-01-02 03:47:46

# Below is generated by plot.py at 2018-01-02 07:42:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 222.70 Mbit/s
95th percentile per-packet one-way delay: 58.237 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 222.70 Mbit/s
95th percentile per-packet one-way delay: 58.237 ms
Loss rate: 0.36%
```

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-01-02 03:59:02

End at: 2018-01-02 03:59:32

Below is generated by plot.py at 2018-01-02 07:42:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 226.25 Mbit/s

95th percentile per-packet one-way delay: 57.573 ms

Loss rate: 0.36%

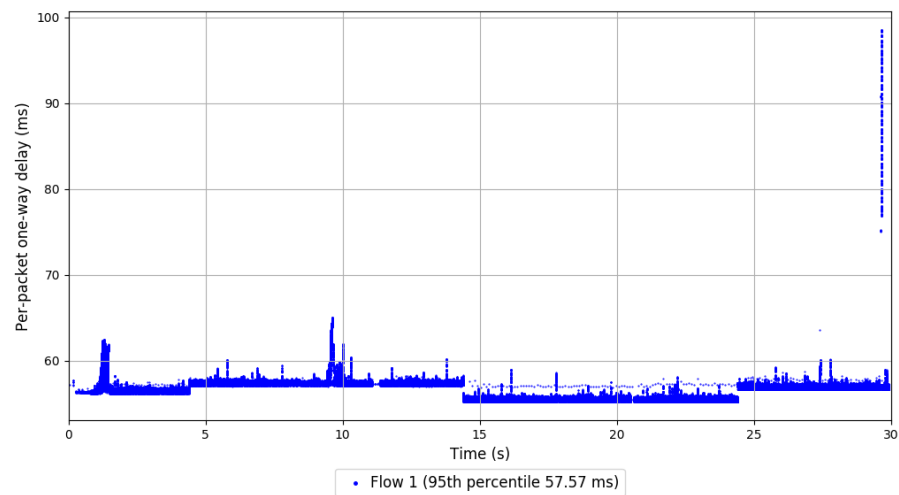
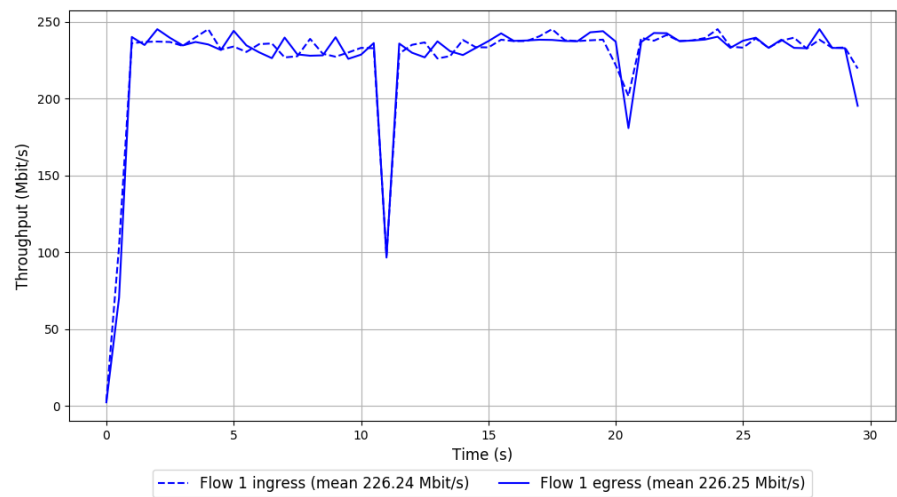
-- Flow 1:

Average throughput: 226.25 Mbit/s

95th percentile per-packet one-way delay: 57.573 ms

Loss rate: 0.36%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-01-02 04:10:51

End at: 2018-01-02 04:11:21

Below is generated by plot.py at 2018-01-02 07:42:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 212.60 Mbit/s

95th percentile per-packet one-way delay: 56.930 ms

Loss rate: 0.20%

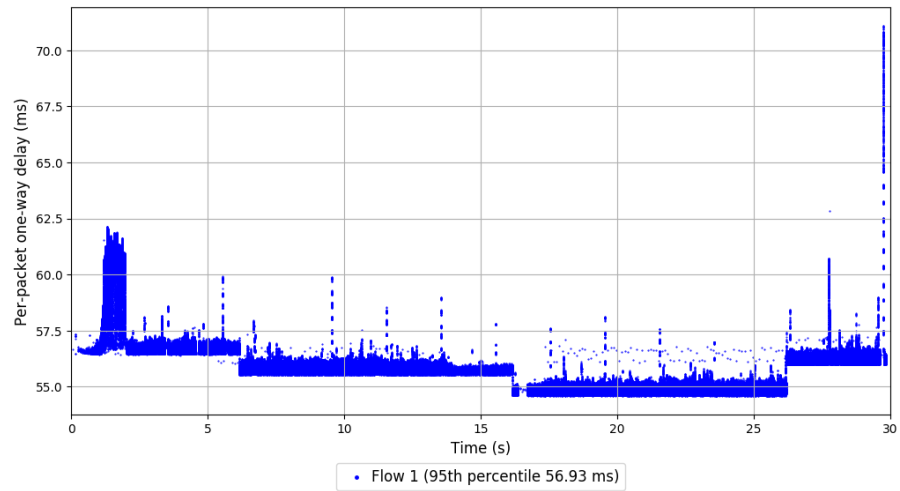
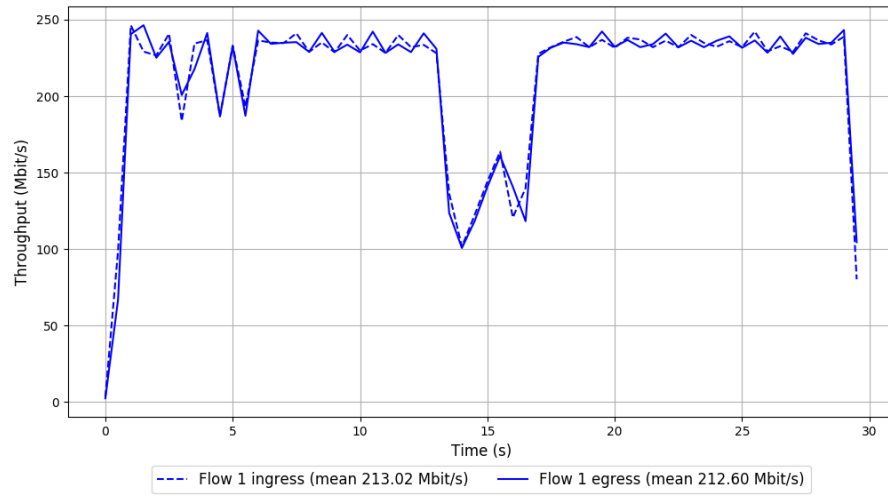
-- Flow 1:

Average throughput: 212.60 Mbit/s

95th percentile per-packet one-way delay: 56.930 ms

Loss rate: 0.20%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-01-02 04:22:33

End at: 2018-01-02 04:23:03

Below is generated by plot.py at 2018-01-02 07:42:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 220.78 Mbit/s

95th percentile per-packet one-way delay: 55.468 ms

Loss rate: 0.41%

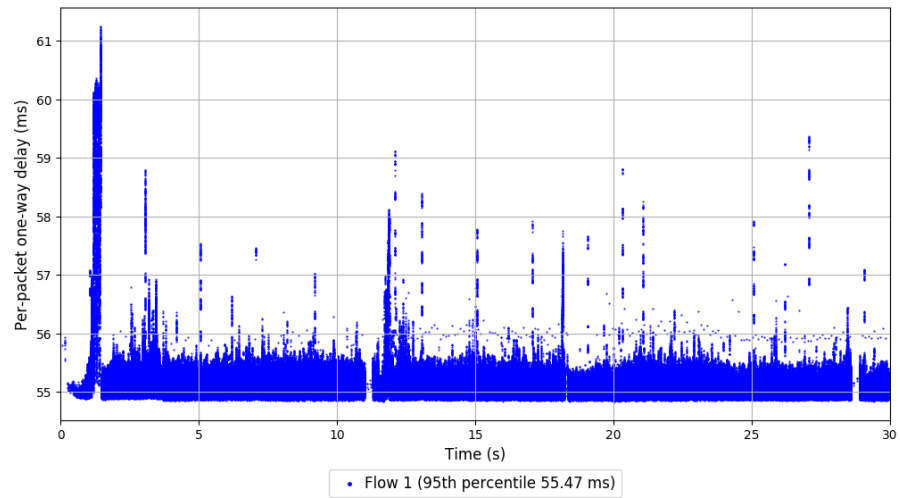
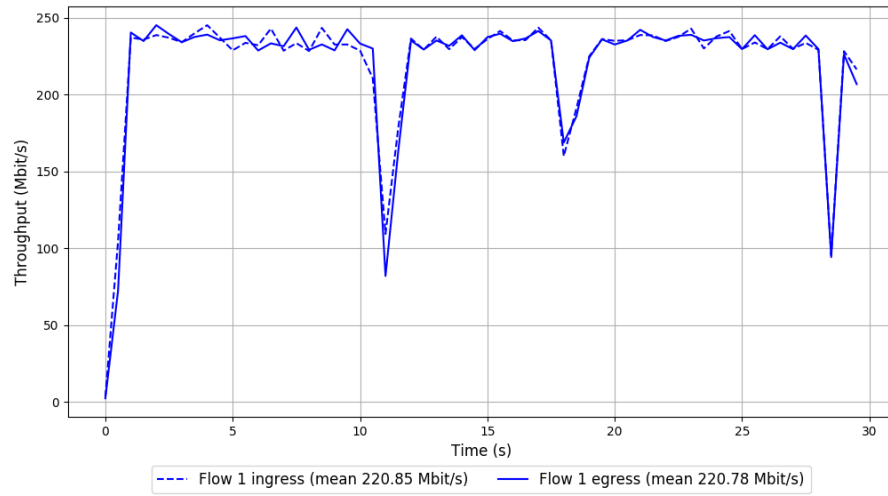
-- Flow 1:

Average throughput: 220.78 Mbit/s

95th percentile per-packet one-way delay: 55.468 ms

Loss rate: 0.41%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-01-02 04:34:21

End at: 2018-01-02 04:34:51

Below is generated by plot.py at 2018-01-02 07:42:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 213.93 Mbit/s

95th percentile per-packet one-way delay: 56.533 ms

Loss rate: 0.49%

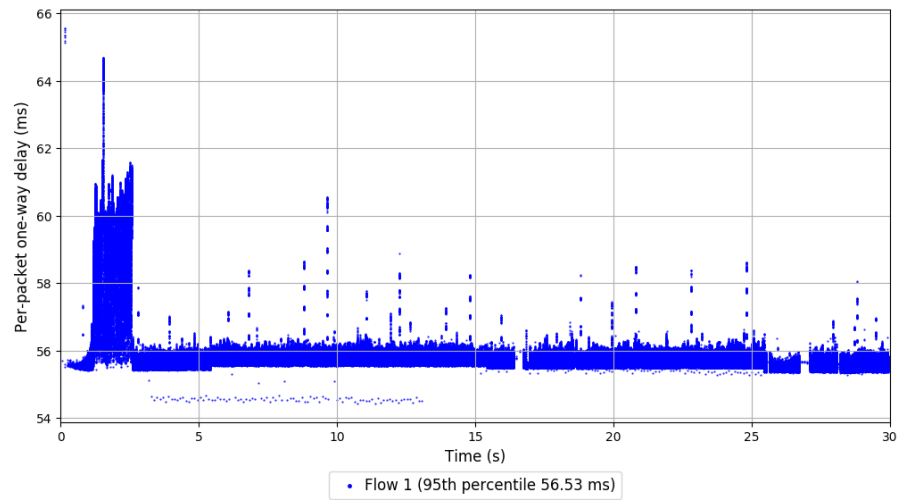
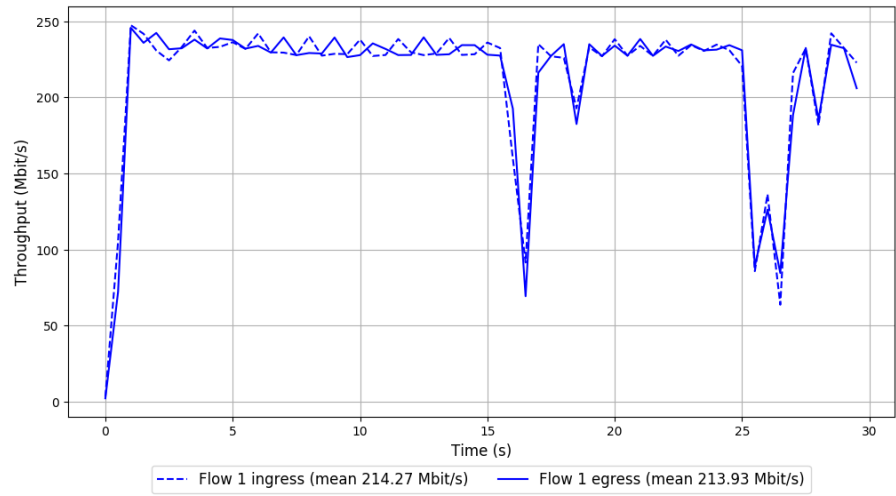
-- Flow 1:

Average throughput: 213.93 Mbit/s

95th percentile per-packet one-way delay: 56.533 ms

Loss rate: 0.49%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-01-02 04:46:05

End at: 2018-01-02 04:46:35

Below is generated by plot.py at 2018-01-02 07:42:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 201.52 Mbit/s

95th percentile per-packet one-way delay: 55.274 ms

Loss rate: 0.90%

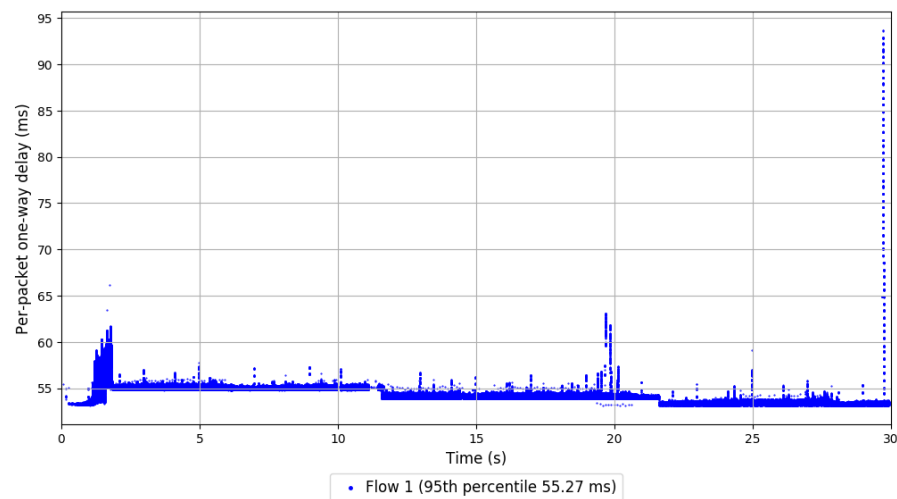
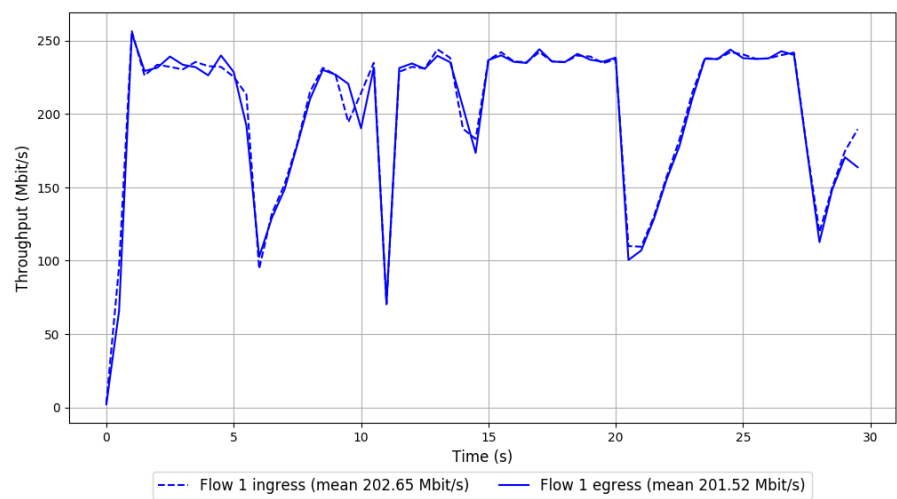
-- Flow 1:

Average throughput: 201.52 Mbit/s

95th percentile per-packet one-way delay: 55.274 ms

Loss rate: 0.90%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-01-02 04:57:45

End at: 2018-01-02 04:58:15

Below is generated by plot.py at 2018-01-02 07:42:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 203.70 Mbit/s

95th percentile per-packet one-way delay: 54.658 ms

Loss rate: 0.42%

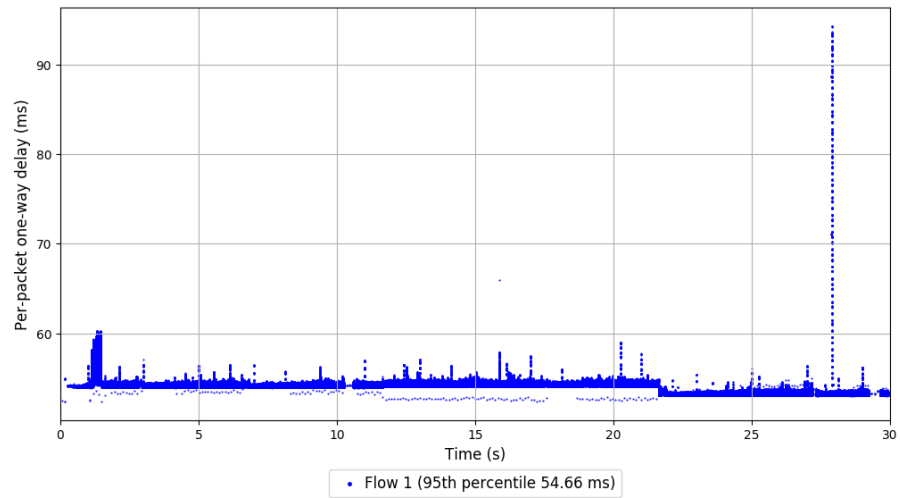
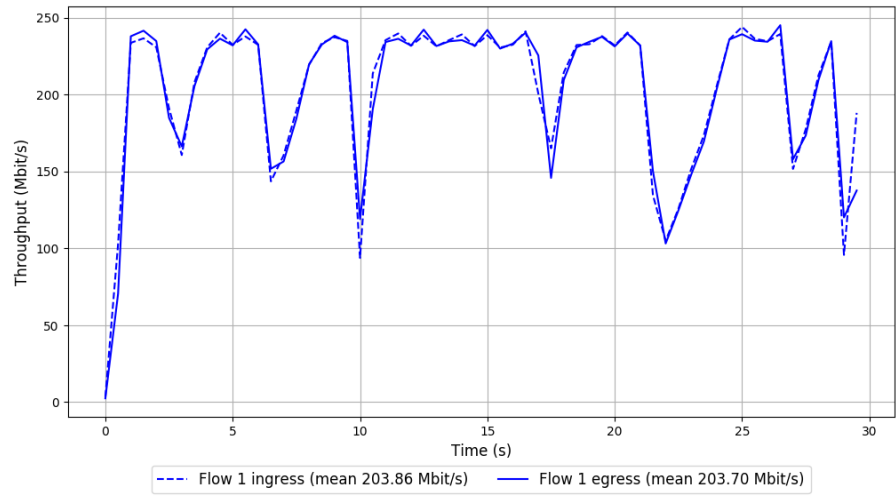
-- Flow 1:

Average throughput: 203.70 Mbit/s

95th percentile per-packet one-way delay: 54.658 ms

Loss rate: 0.42%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-01-02 05:09:32

End at: 2018-01-02 05:10:02

Below is generated by plot.py at 2018-01-02 07:42:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 204.29 Mbit/s

95th percentile per-packet one-way delay: 53.859 ms

Loss rate: 0.73%

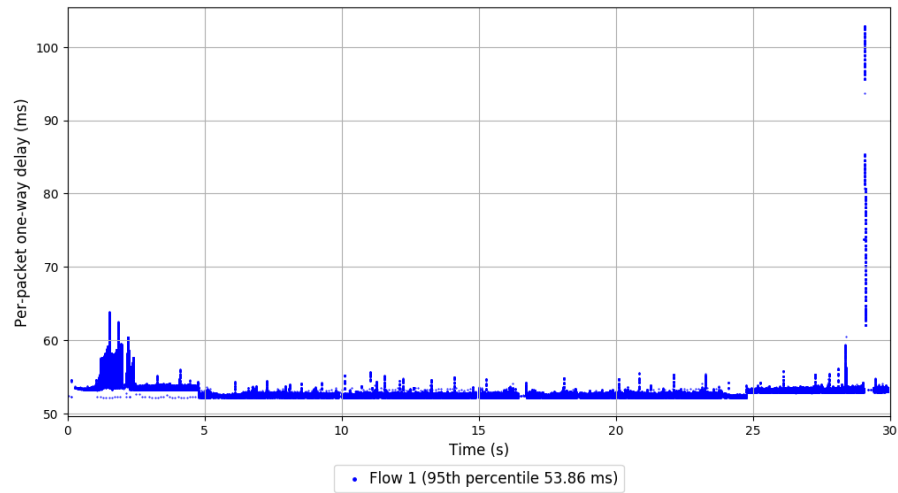
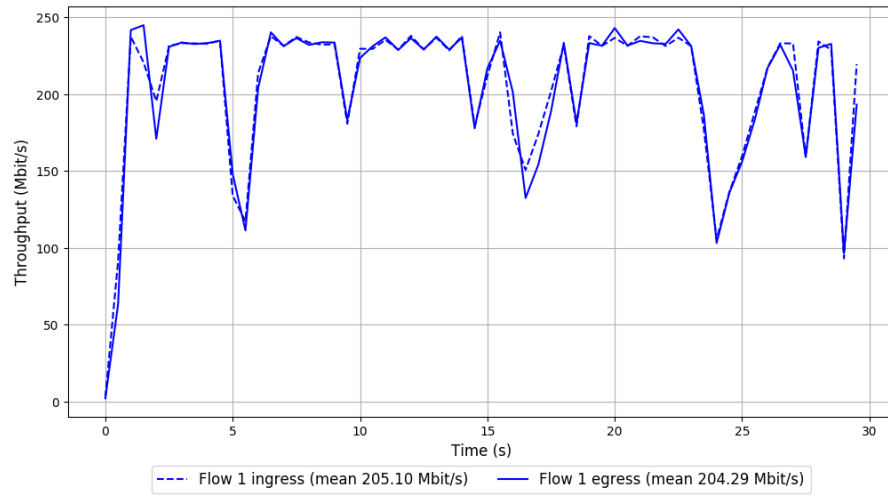
-- Flow 1:

Average throughput: 204.29 Mbit/s

95th percentile per-packet one-way delay: 53.859 ms

Loss rate: 0.73%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-01-02 05:20:54

End at: 2018-01-02 05:21:24

Below is generated by plot.py at 2018-01-02 07:45:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 216.01 Mbit/s

95th percentile per-packet one-way delay: 52.769 ms

Loss rate: 0.36%

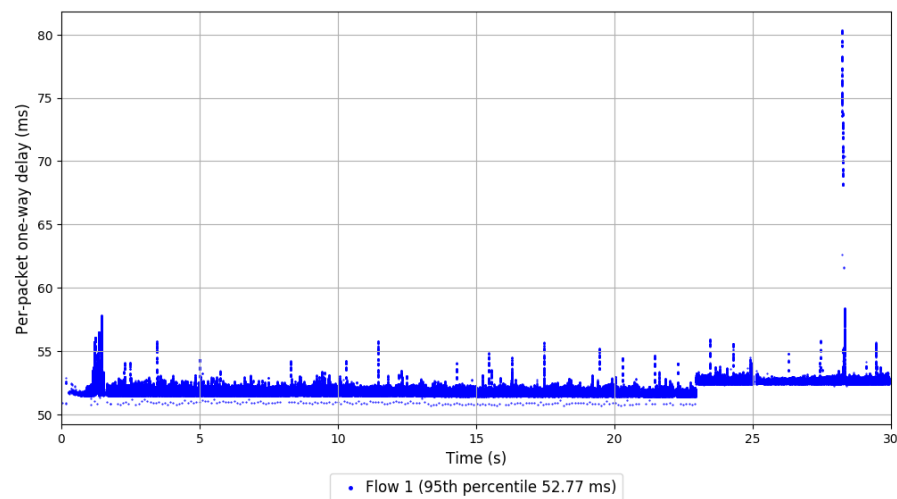
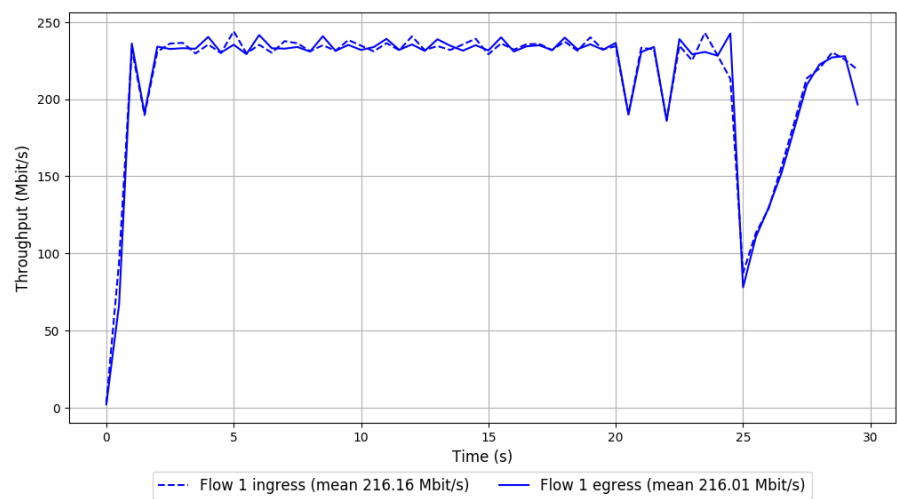
-- Flow 1:

Average throughput: 216.01 Mbit/s

95th percentile per-packet one-way delay: 52.769 ms

Loss rate: 0.36%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-01-02 05:32:11

End at: 2018-01-02 05:32:41

Below is generated by plot.py at 2018-01-02 07:45:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 217.66 Mbit/s

95th percentile per-packet one-way delay: 52.328 ms

Loss rate: 0.36%

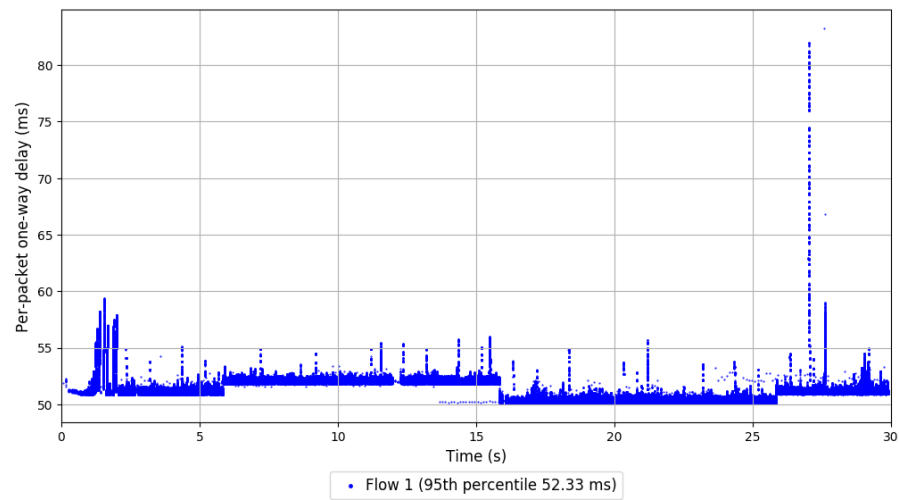
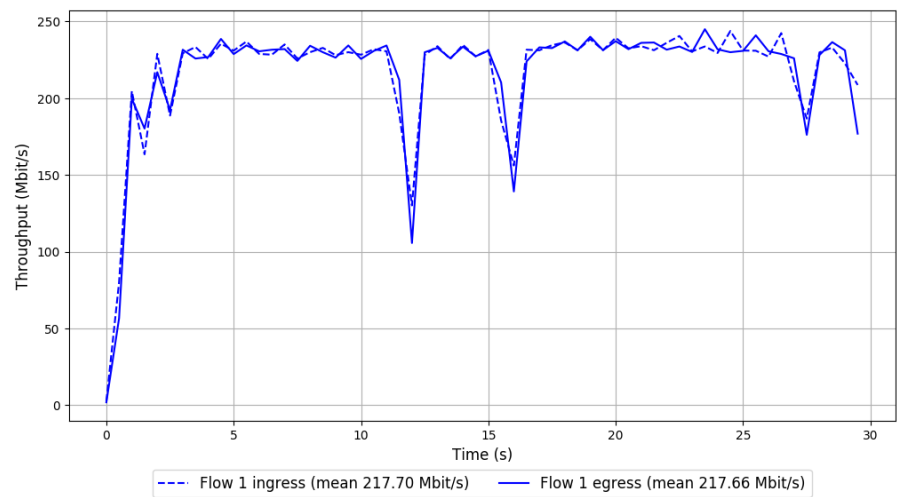
-- Flow 1:

Average throughput: 217.66 Mbit/s

95th percentile per-packet one-way delay: 52.328 ms

Loss rate: 0.36%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-01-02 03:41:36

End at: 2018-01-02 03:42:06

Below is generated by plot.py at 2018-01-02 07:45:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 106.59 Mbit/s

95th percentile per-packet one-way delay: 58.980 ms

Loss rate: 0.67%

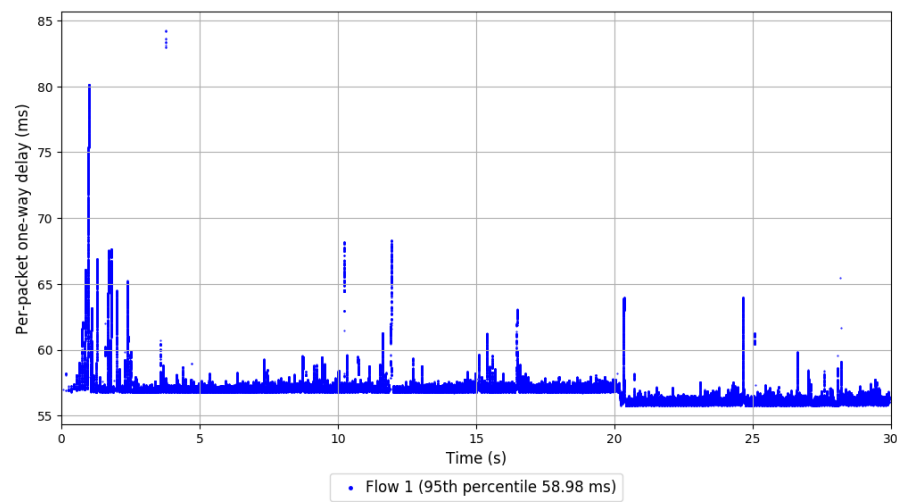
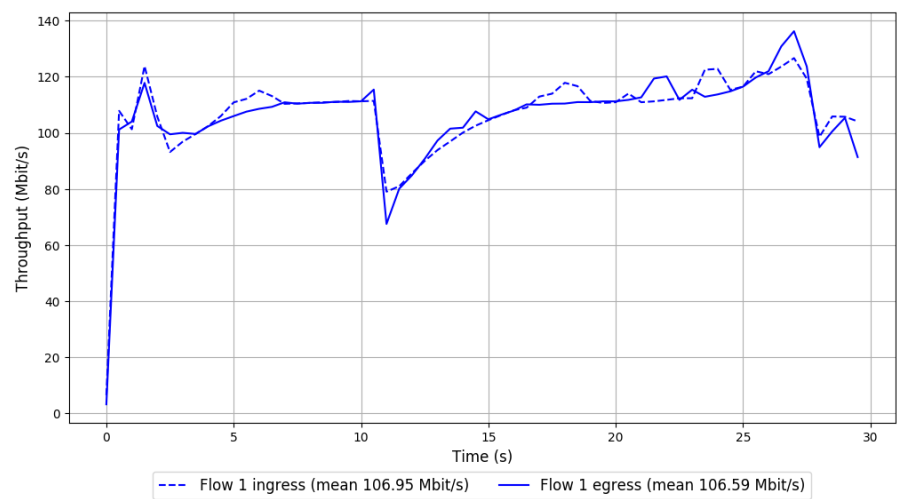
-- Flow 1:

Average throughput: 106.59 Mbit/s

95th percentile per-packet one-way delay: 58.980 ms

Loss rate: 0.67%

Run 1: Report of TCP Cubic — Data Link

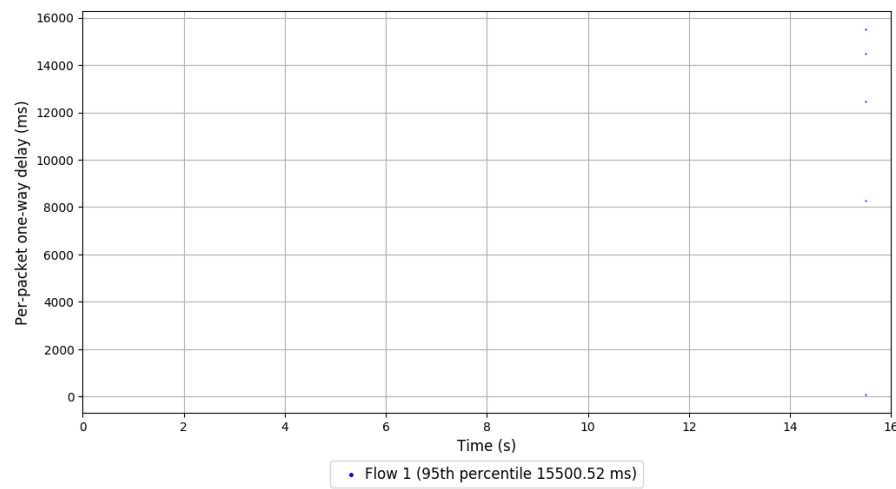
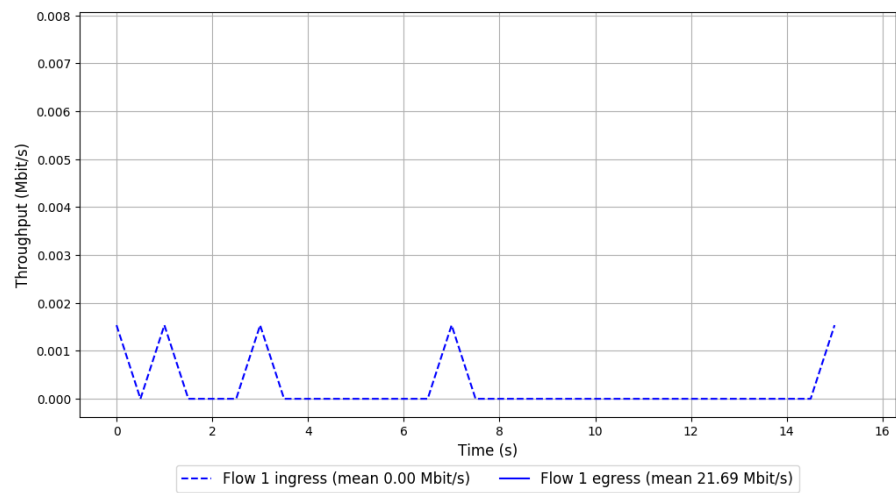


Run 2: Statistics of TCP Cubic

Start at: 2018-01-02 03:53:28

End at: 2018-01-02 03:53:58

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-01-02 04:05:09

End at: 2018-01-02 04:05:39

Below is generated by plot.py at 2018-01-02 07:45:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 126.75 Mbit/s

95th percentile per-packet one-way delay: 62.457 ms

Loss rate: 0.38%

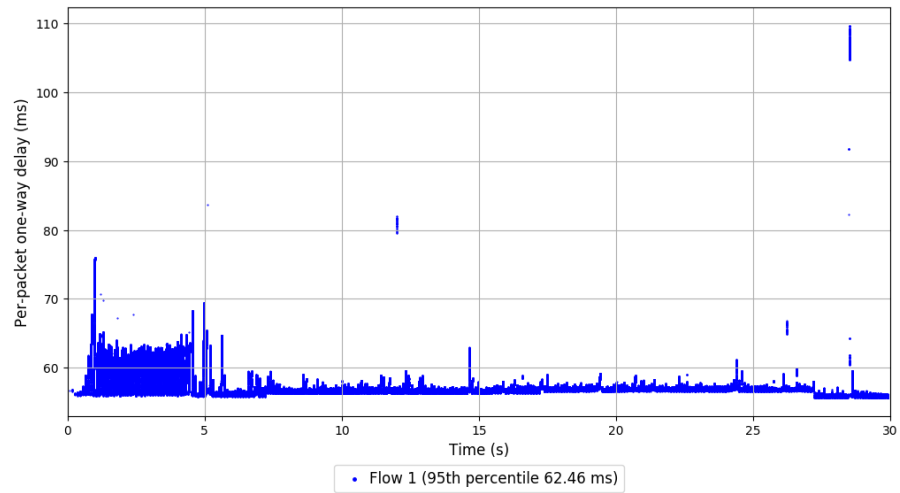
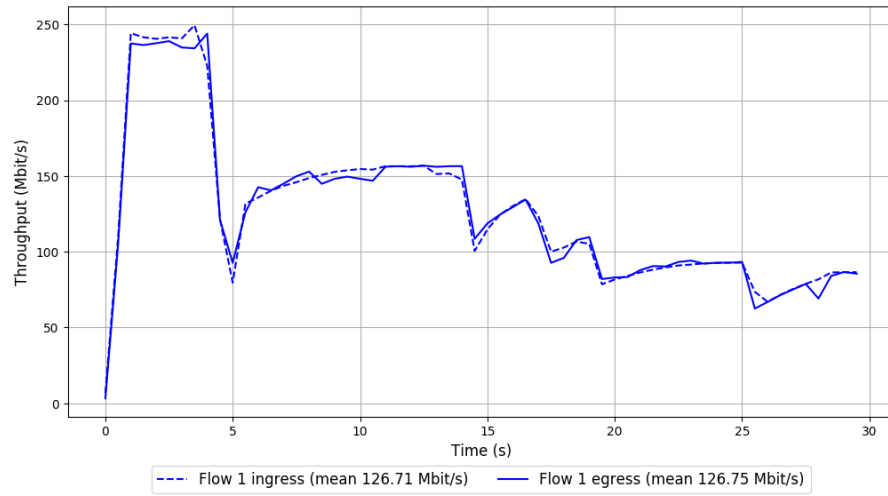
-- Flow 1:

Average throughput: 126.75 Mbit/s

95th percentile per-packet one-way delay: 62.457 ms

Loss rate: 0.38%

Run 3: Report of TCP Cubic — Data Link

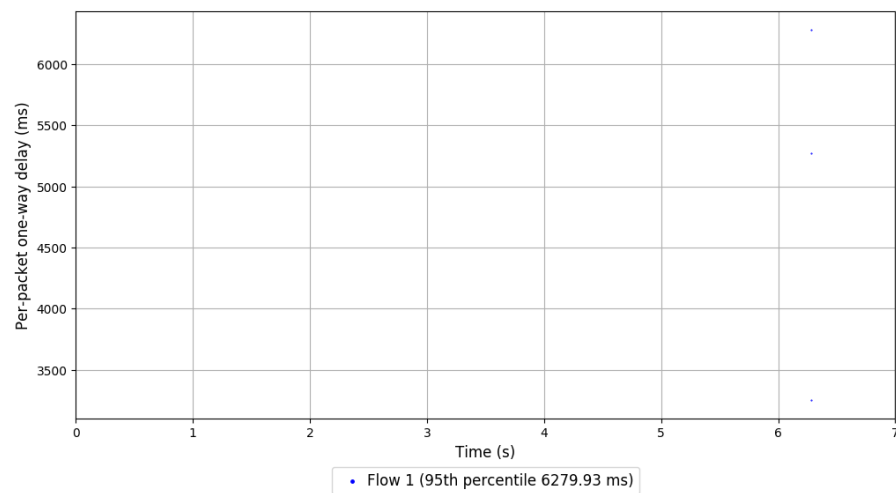
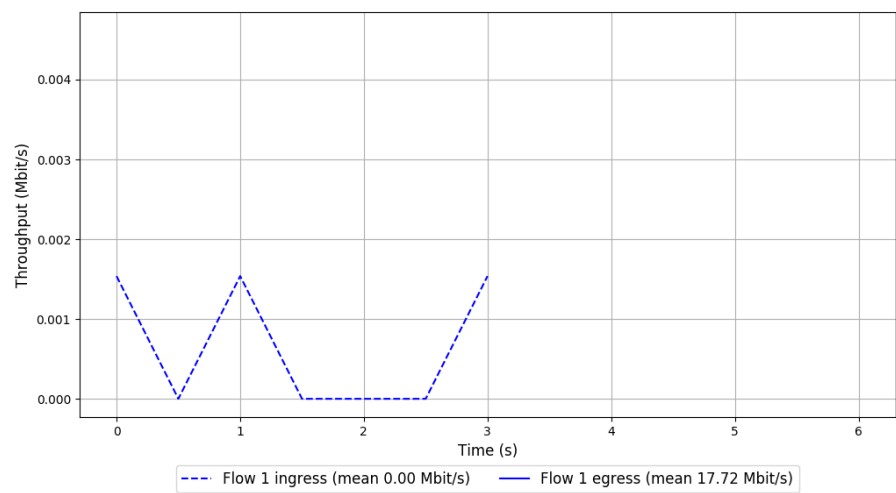


Run 4: Statistics of TCP Cubic

Start at: 2018-01-02 04:17:00

End at: 2018-01-02 04:17:30

Run 4: Report of TCP Cubic — Data Link

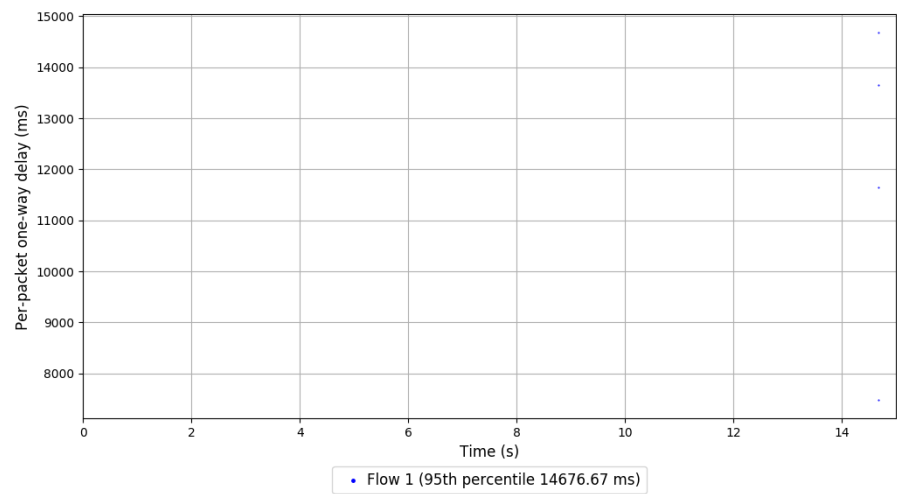
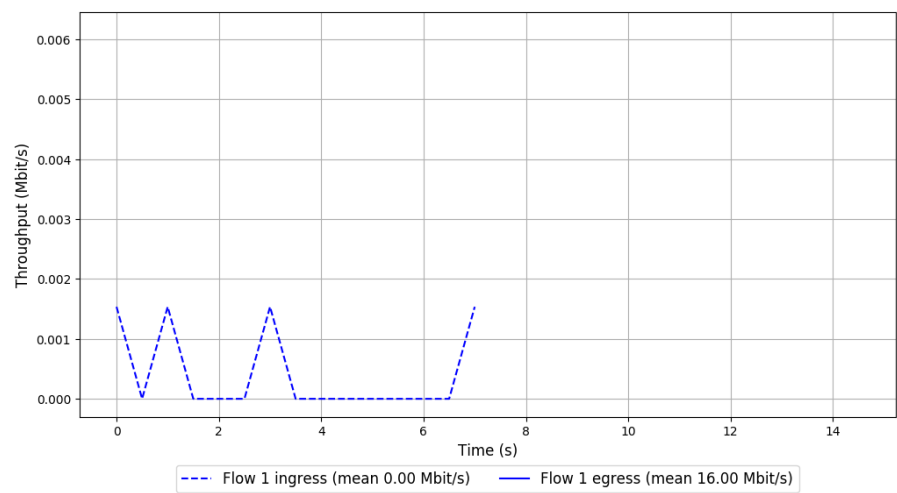


Run 5: Statistics of TCP Cubic

Start at: 2018-01-02 04:28:46

End at: 2018-01-02 04:29:16

Run 5: Report of TCP Cubic — Data Link

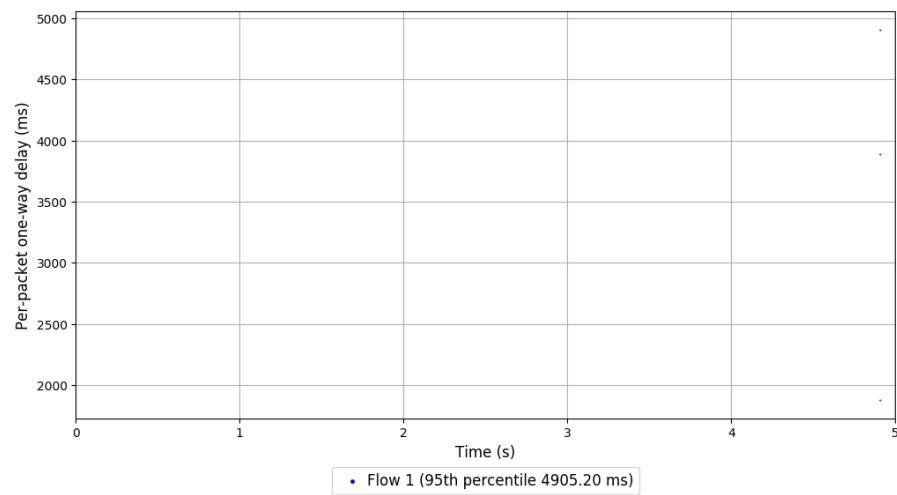
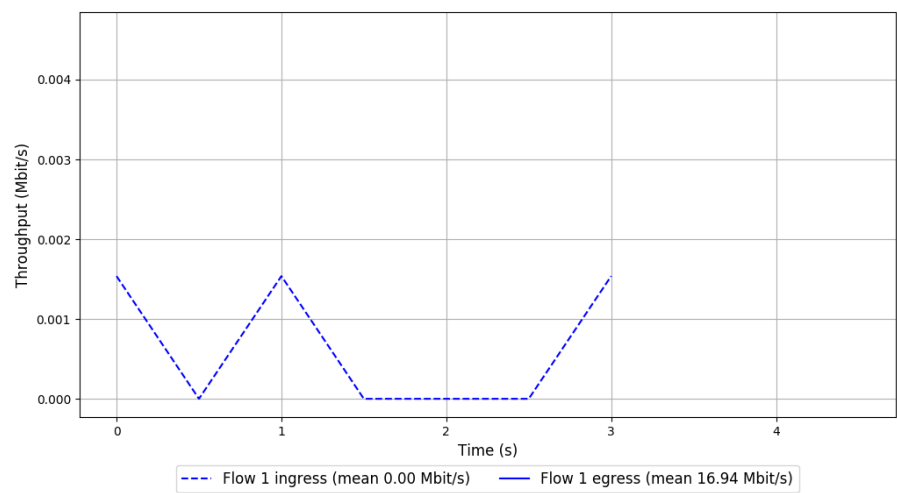


Run 6: Statistics of TCP Cubic

Start at: 2018-01-02 04:40:32

End at: 2018-01-02 04:41:02

Run 6: Report of TCP Cubic — Data Link

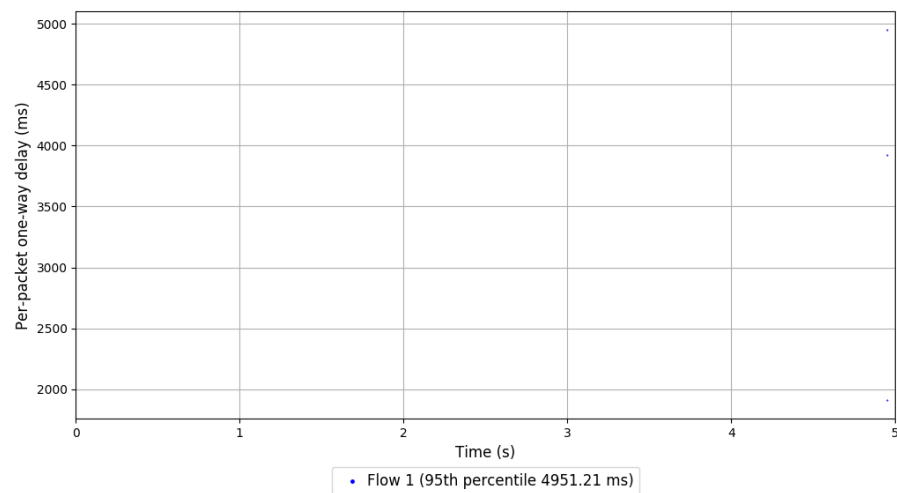
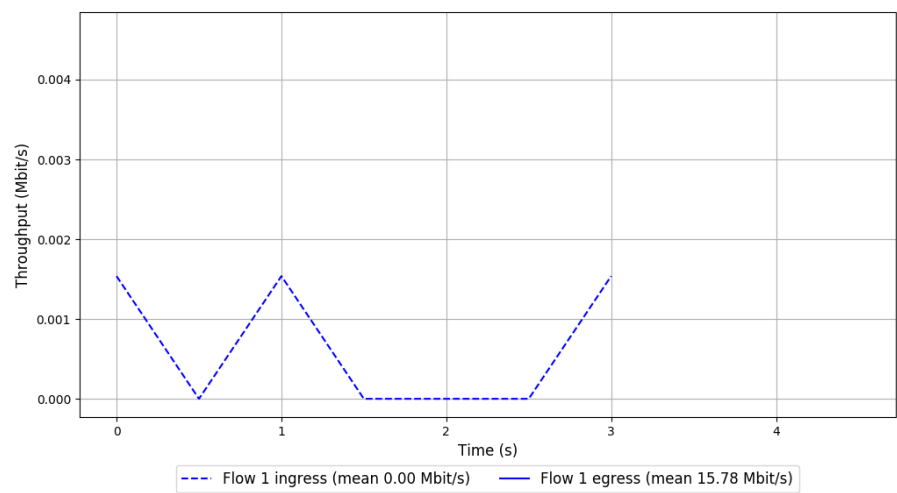


Run 7: Statistics of TCP Cubic

Start at: 2018-01-02 04:52:12

End at: 2018-01-02 04:52:43

Run 7: Report of TCP Cubic — Data Link

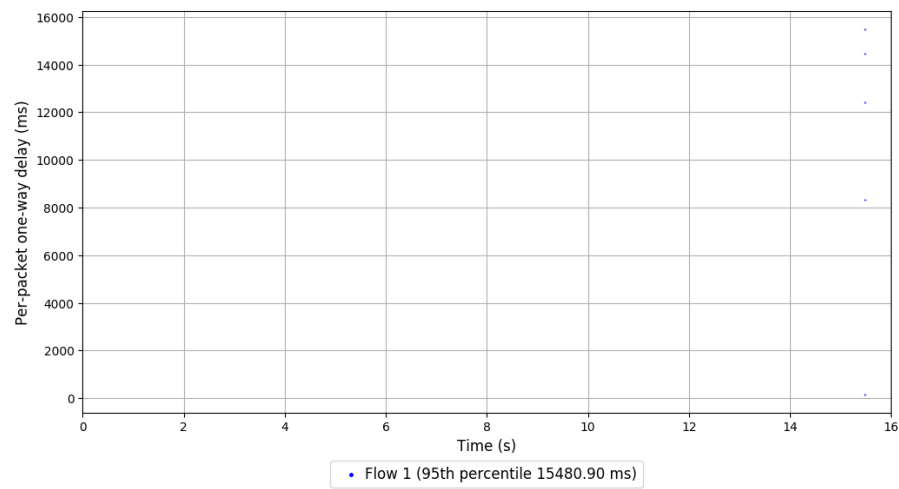
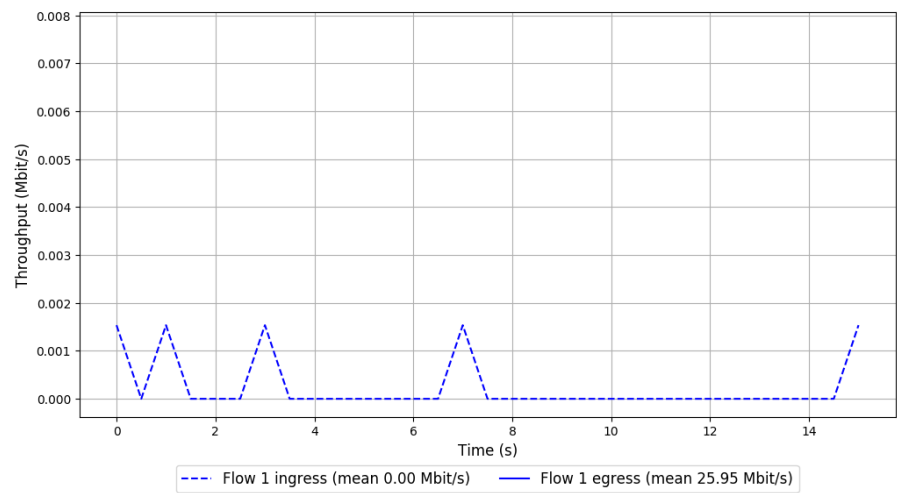


Run 8: Statistics of TCP Cubic

Start at: 2018-01-02 05:03:57

End at: 2018-01-02 05:04:27

Run 8: Report of TCP Cubic — Data Link

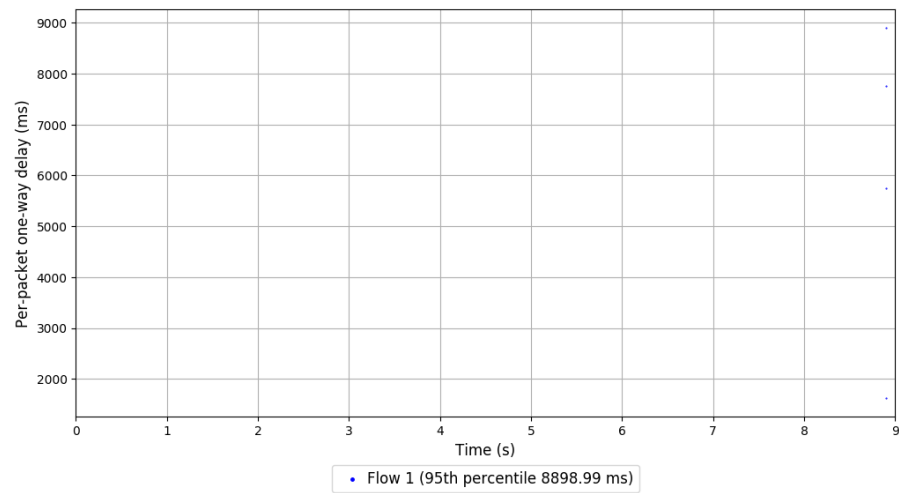
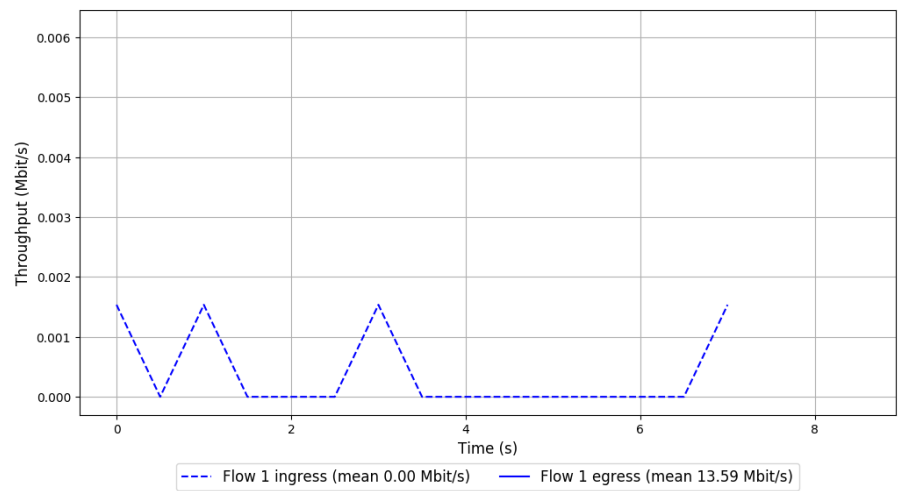


Run 9: Statistics of TCP Cubic

Start at: 2018-01-02 05:15:35

End at: 2018-01-02 05:16:05

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-01-02 05:26:56

End at: 2018-01-02 05:27:26

Below is generated by plot.py at 2018-01-02 07:45:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 131.97 Mbit/s

95th percentile per-packet one-way delay: 53.555 ms

Loss rate: 0.47%

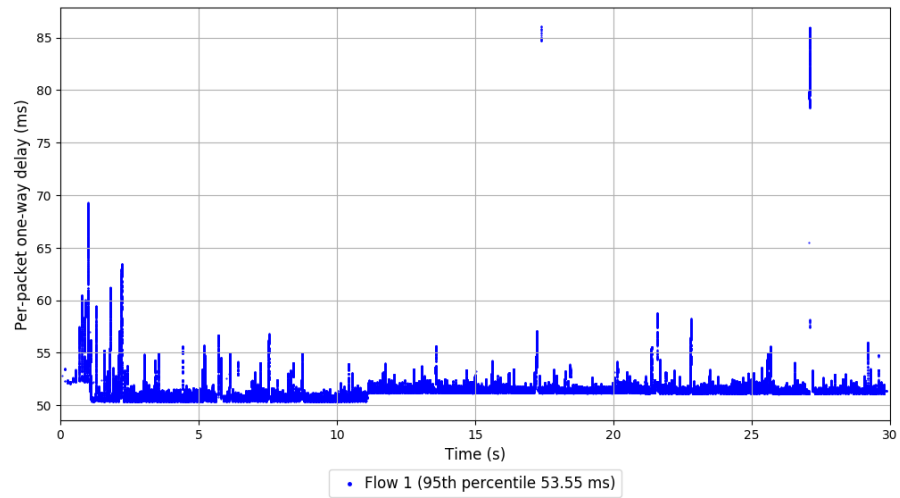
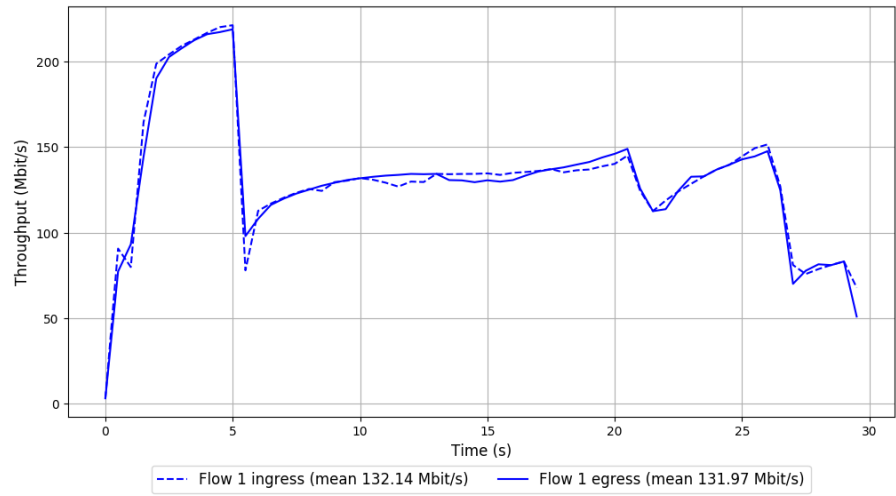
-- Flow 1:

Average throughput: 131.97 Mbit/s

95th percentile per-packet one-way delay: 53.555 ms

Loss rate: 0.47%

Run 10: Report of TCP Cubic — Data Link

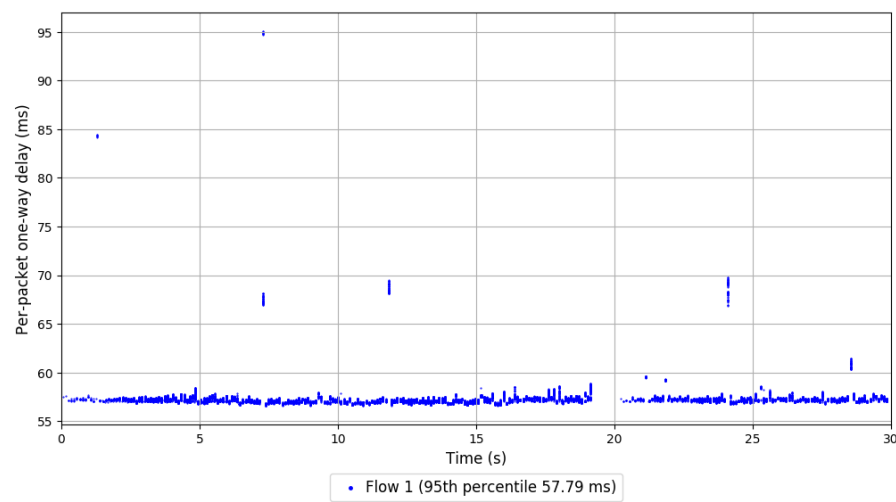
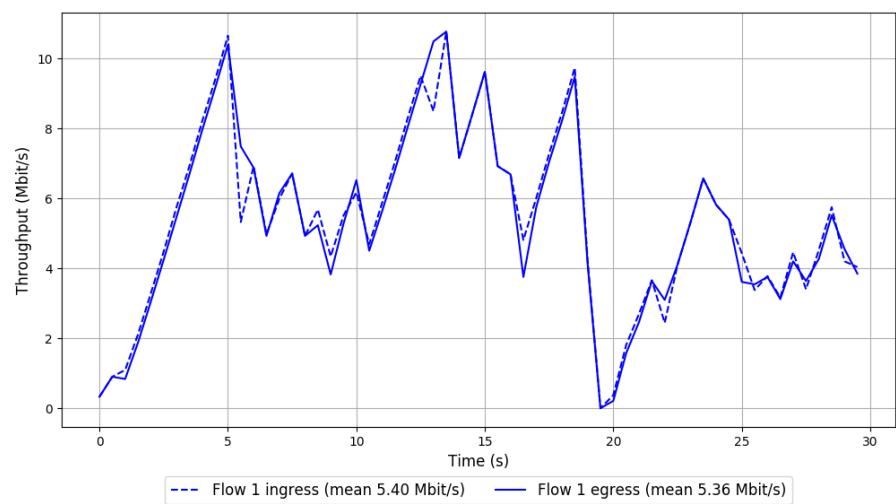


```
Run 1: Statistics of LEDBAT

Start at: 2018-01-02 03:50:10
End at: 2018-01-02 03:50:40

# Below is generated by plot.py at 2018-01-02 07:45:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 5.36 Mbit/s
95th percentile per-packet one-way delay: 57.788 ms
Loss rate: 1.00%
-- Flow 1:
Average throughput: 5.36 Mbit/s
95th percentile per-packet one-way delay: 57.788 ms
Loss rate: 1.00%
```

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2018-01-02 04:01:57

End at: 2018-01-02 04:02:27

Below is generated by plot.py at 2018-01-02 07:45:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.88 Mbit/s

95th percentile per-packet one-way delay: 57.037 ms

Loss rate: 0.81%

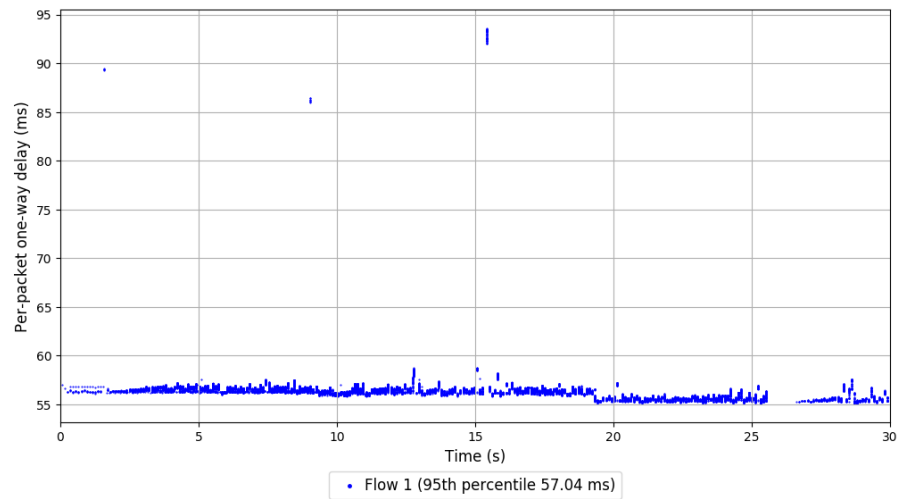
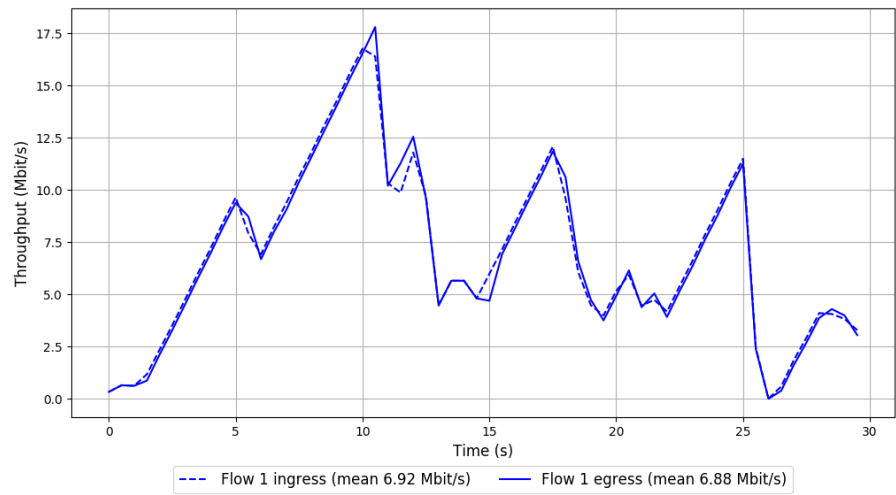
-- Flow 1:

Average throughput: 6.88 Mbit/s

95th percentile per-packet one-way delay: 57.037 ms

Loss rate: 0.81%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-01-02 04:13:43

End at: 2018-01-02 04:14:13

Below is generated by plot.py at 2018-01-02 07:45:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.71 Mbit/s

95th percentile per-packet one-way delay: 56.236 ms

Loss rate: 2.17%

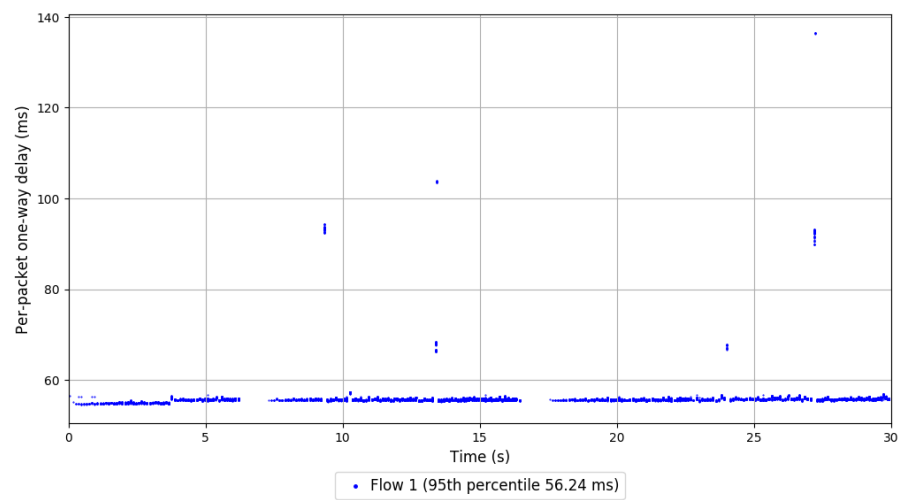
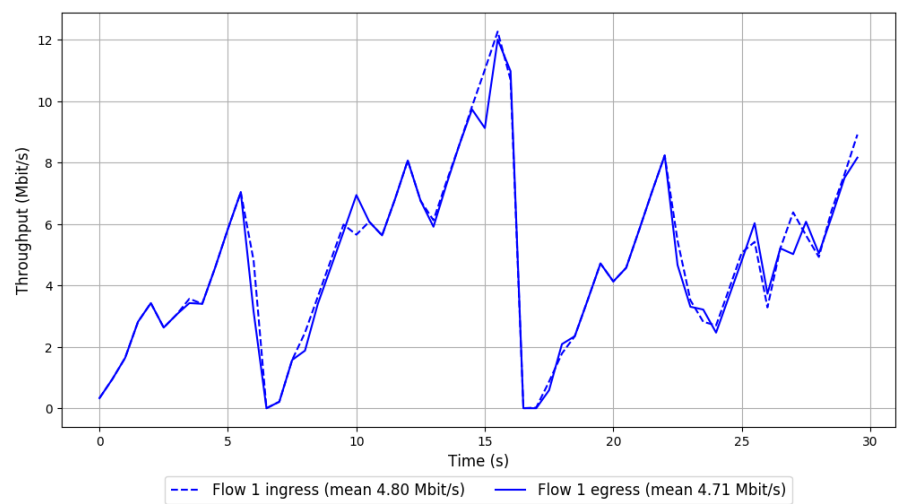
-- Flow 1:

Average throughput: 4.71 Mbit/s

95th percentile per-packet one-way delay: 56.236 ms

Loss rate: 2.17%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-01-02 04:25:27

End at: 2018-01-02 04:25:57

Below is generated by plot.py at 2018-01-02 07:45:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.25 Mbit/s

95th percentile per-packet one-way delay: 56.836 ms

Loss rate: 1.33%

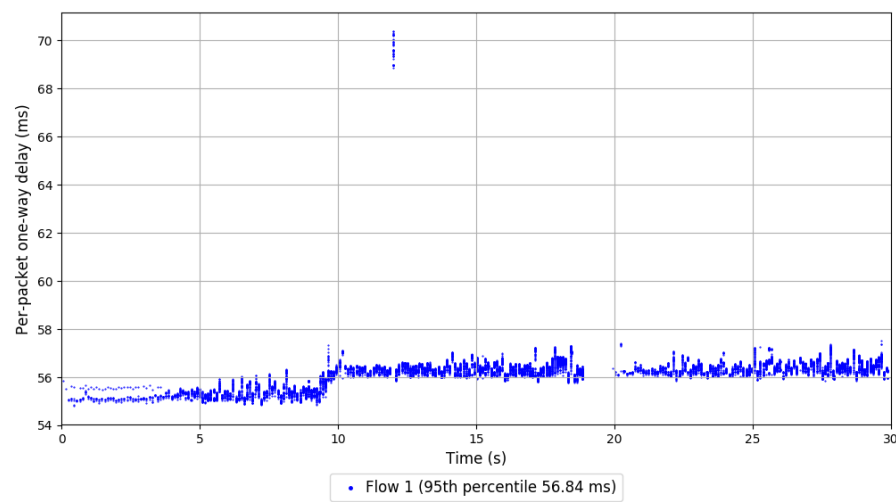
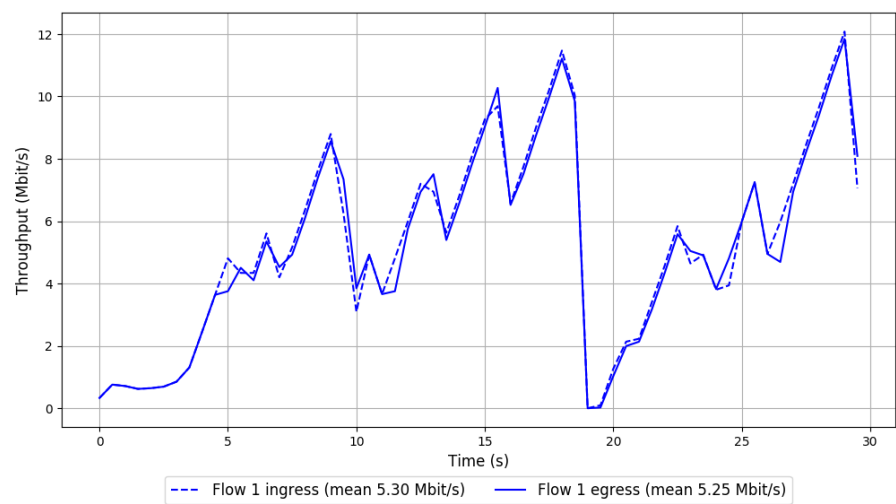
-- Flow 1:

Average throughput: 5.25 Mbit/s

95th percentile per-packet one-way delay: 56.836 ms

Loss rate: 1.33%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-01-02 04:37:16

End at: 2018-01-02 04:37:46

Below is generated by plot.py at 2018-01-02 07:45:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.76 Mbit/s

95th percentile per-packet one-way delay: 56.290 ms

Loss rate: 2.79%

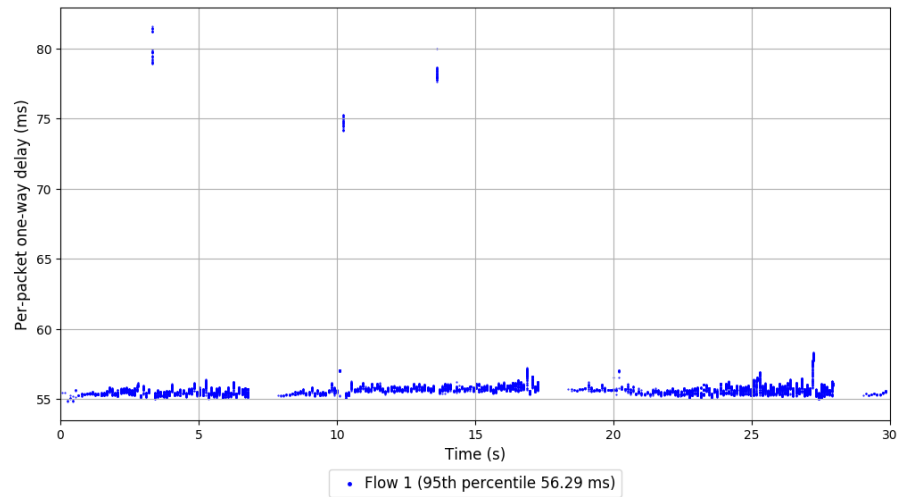
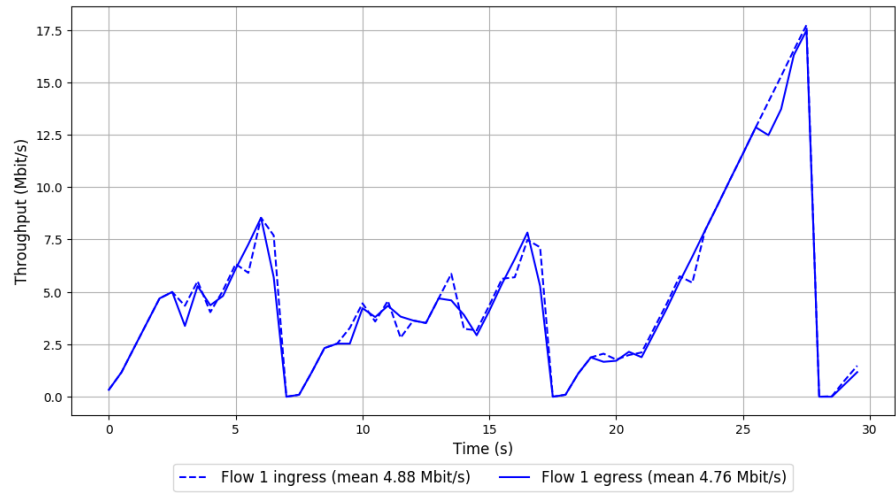
-- Flow 1:

Average throughput: 4.76 Mbit/s

95th percentile per-packet one-way delay: 56.290 ms

Loss rate: 2.79%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-01-02 04:48:57

End at: 2018-01-02 04:49:27

Below is generated by plot.py at 2018-01-02 07:45:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.68 Mbit/s

95th percentile per-packet one-way delay: 55.632 ms

Loss rate: 0.78%

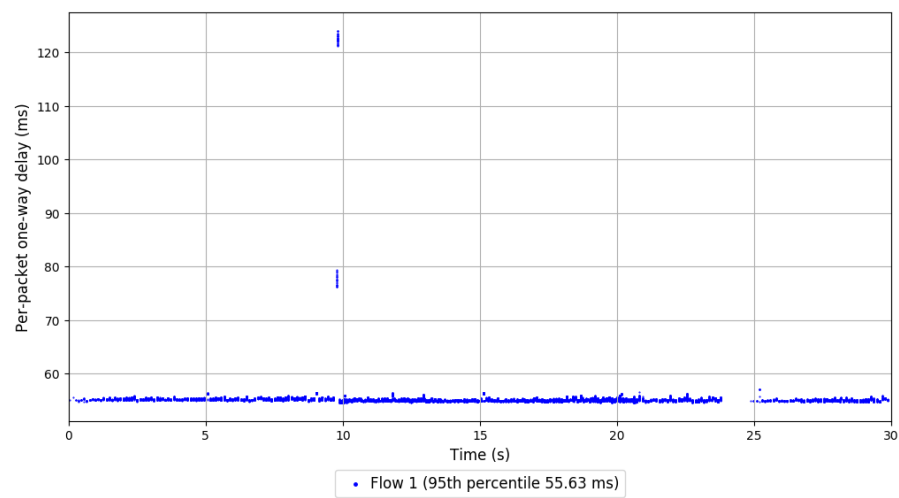
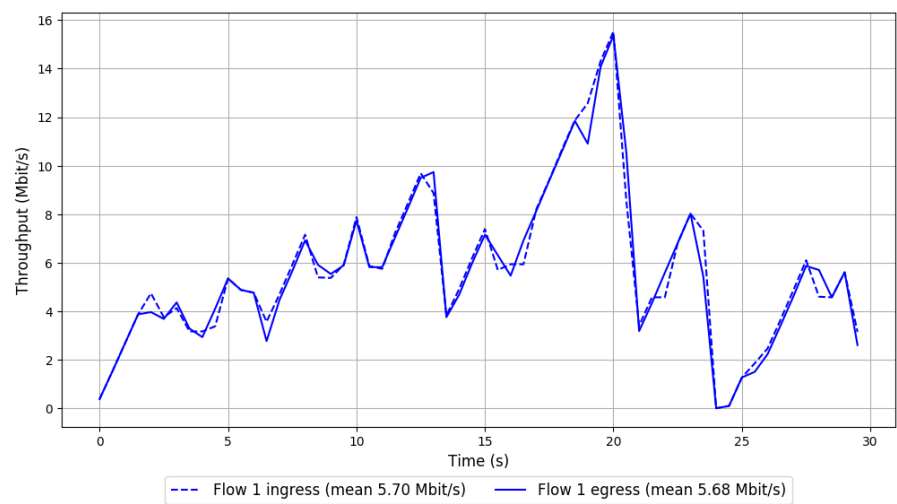
-- Flow 1:

Average throughput: 5.68 Mbit/s

95th percentile per-packet one-way delay: 55.632 ms

Loss rate: 0.78%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-01-02 05:00:40

End at: 2018-01-02 05:01:10

Below is generated by plot.py at 2018-01-02 07:45:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.08 Mbit/s

95th percentile per-packet one-way delay: 54.791 ms

Loss rate: 2.15%

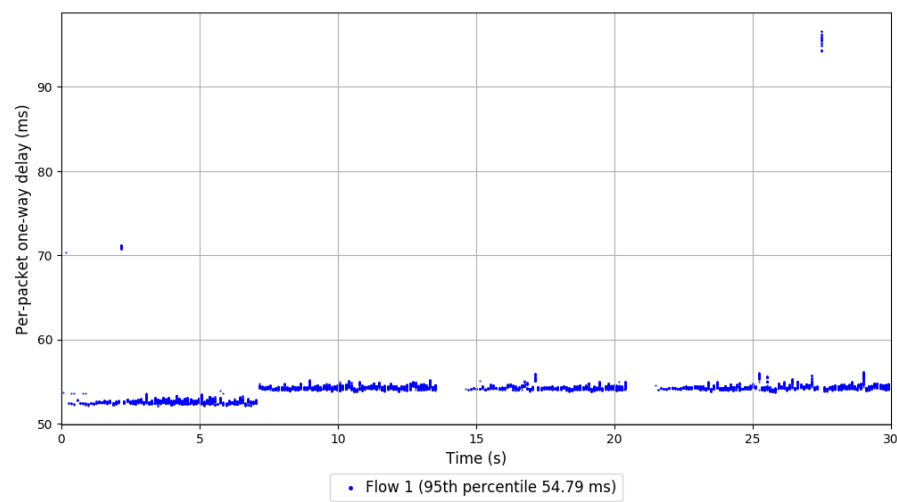
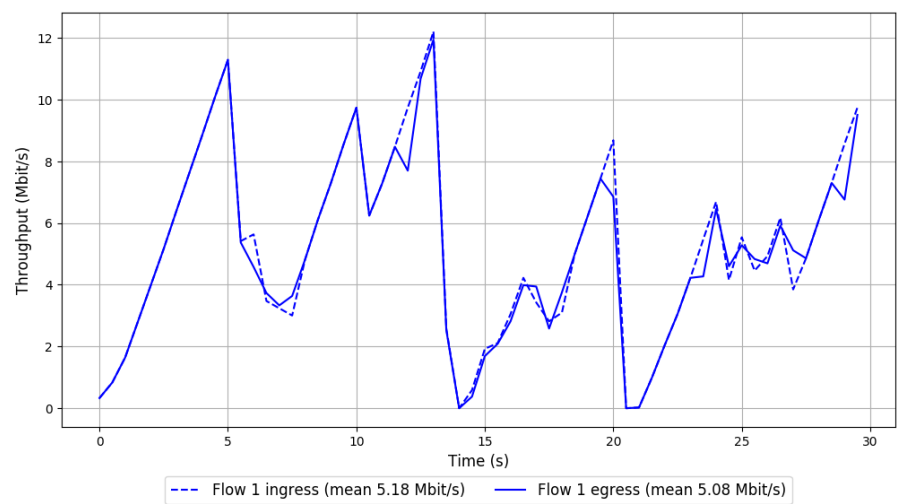
-- Flow 1:

Average throughput: 5.08 Mbit/s

95th percentile per-packet one-way delay: 54.791 ms

Loss rate: 2.15%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-01-02 05:12:25

End at: 2018-01-02 05:12:55

Below is generated by plot.py at 2018-01-02 07:45:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.50 Mbit/s

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

Loss rate: 2.27%

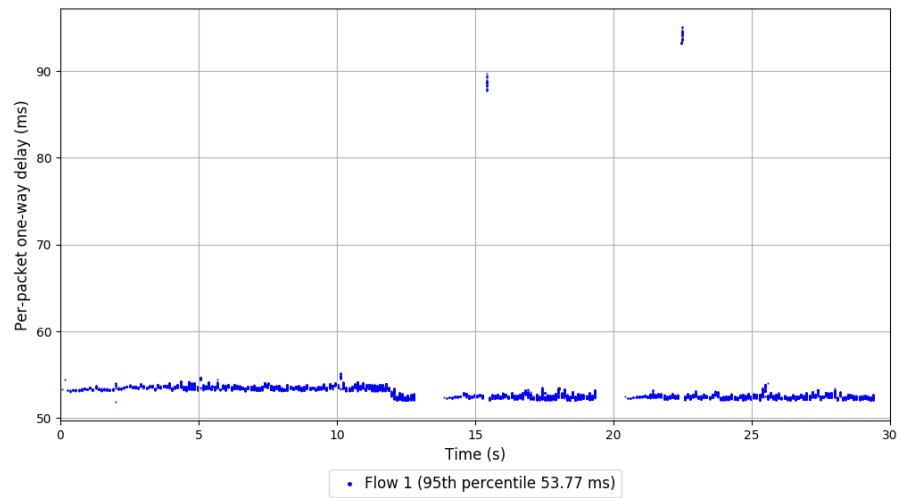
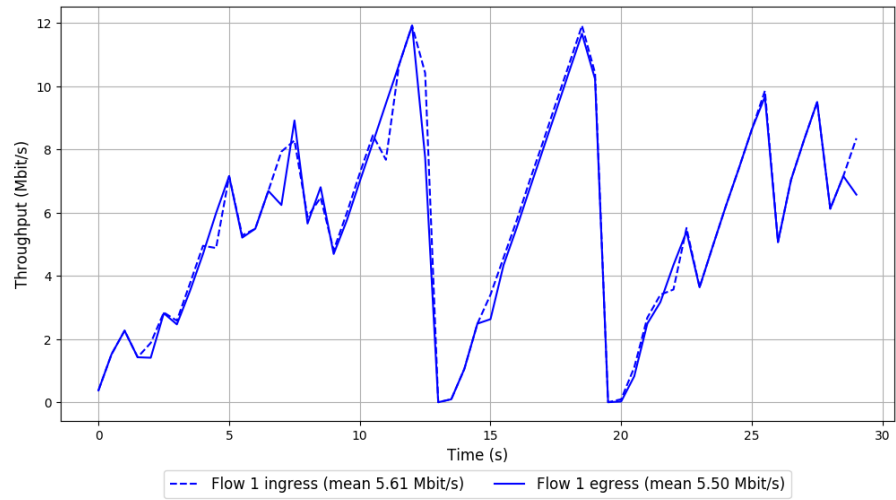
-- Flow 1:

Average throughput: 5.50 Mbit/s

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

Loss rate: 2.27%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-01-02 05:23:47

End at: 2018-01-02 05:24:17

Below is generated by plot.py at 2018-01-02 07:45:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.19 Mbit/s

95th percentile per-packet one-way delay: 52.233 ms

Loss rate: 1.42%

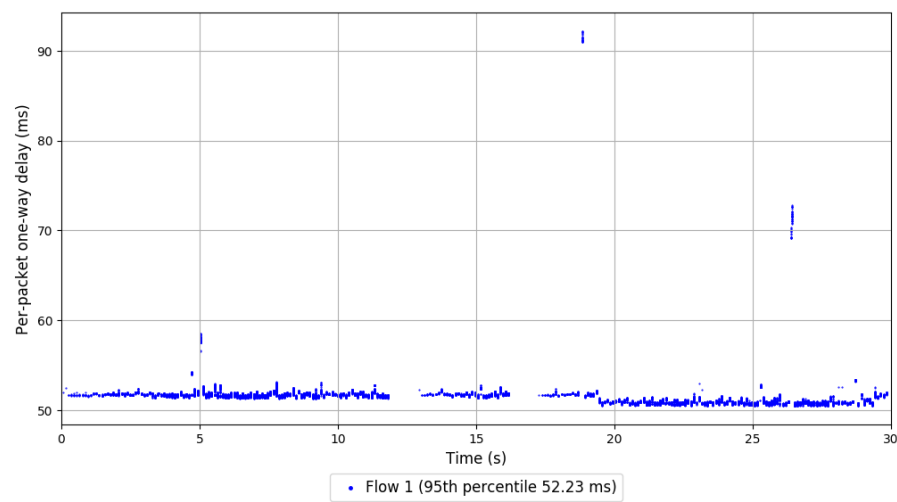
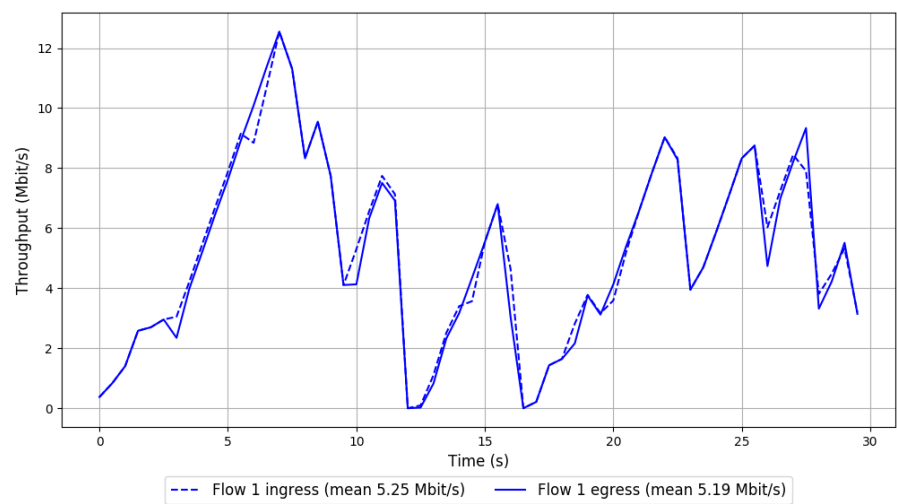
-- Flow 1:

Average throughput: 5.19 Mbit/s

95th percentile per-packet one-way delay: 52.233 ms

Loss rate: 1.42%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-01-02 05:35:04

End at: 2018-01-02 05:35:34

Below is generated by plot.py at 2018-01-02 07:45:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.12 Mbit/s

95th percentile per-packet one-way delay: 52.508 ms

Loss rate: 1.31%

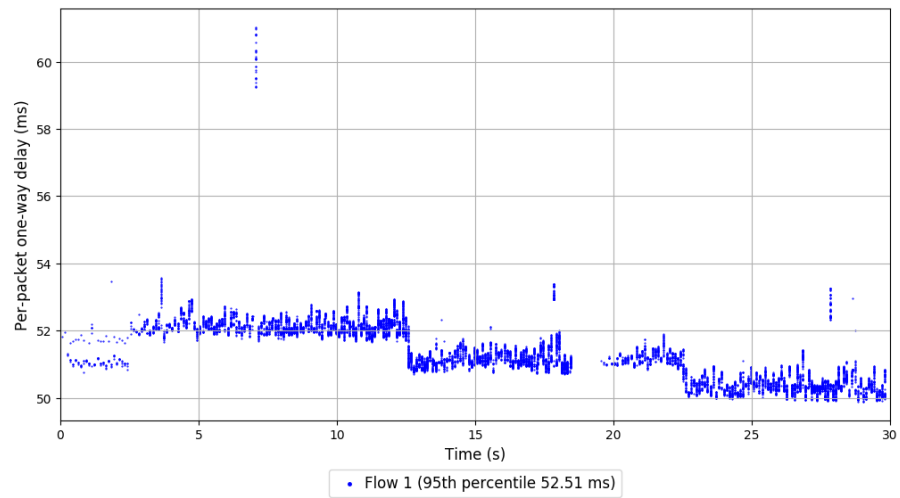
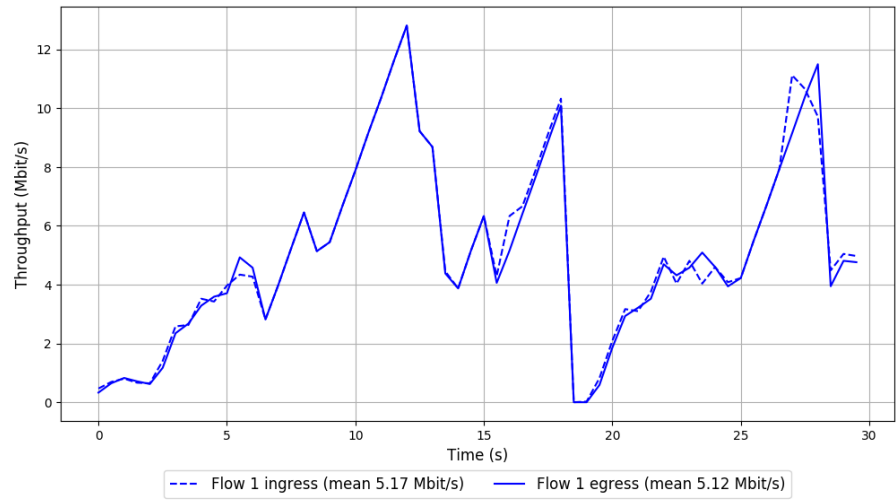
-- Flow 1:

Average throughput: 5.12 Mbit/s

95th percentile per-packet one-way delay: 52.508 ms

Loss rate: 1.31%

Run 10: Report of LEDBAT — Data Link

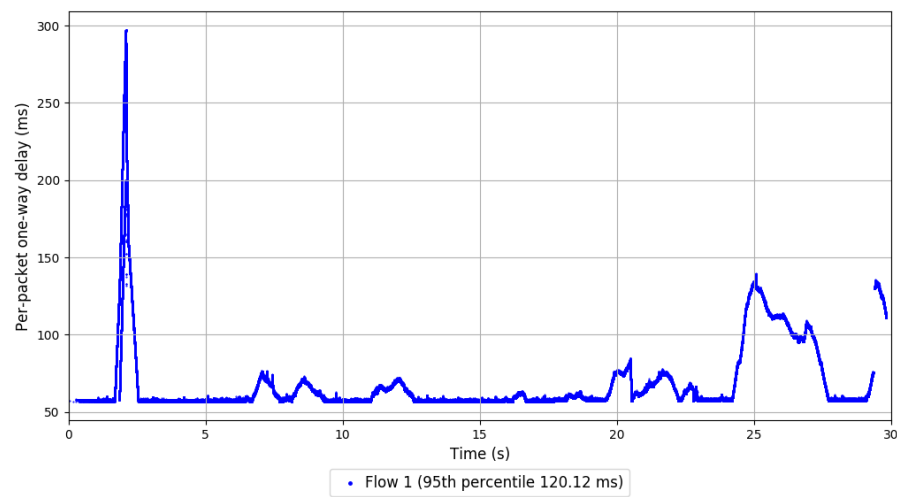
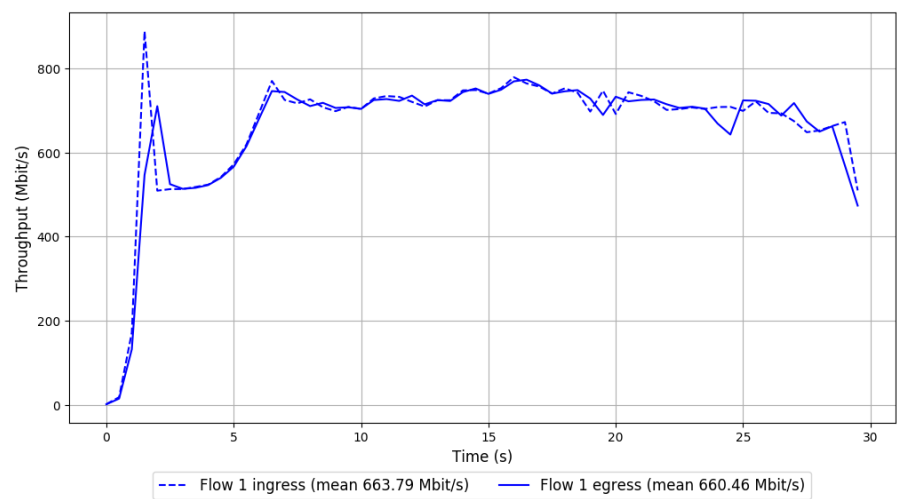


```
Run 1: Statistics of PCC

Start at: 2018-01-02 03:44:09
End at: 2018-01-02 03:44:39

# Below is generated by plot.py at 2018-01-02 07:54:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 660.46 Mbit/s
95th percentile per-packet one-way delay: 120.120 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 660.46 Mbit/s
95th percentile per-packet one-way delay: 120.120 ms
Loss rate: 0.84%
```

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2018-01-02 03:55:55

End at: 2018-01-02 03:56:25

Below is generated by plot.py at 2018-01-02 07:54:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 657.07 Mbit/s

95th percentile per-packet one-way delay: 104.580 ms

Loss rate: 0.79%

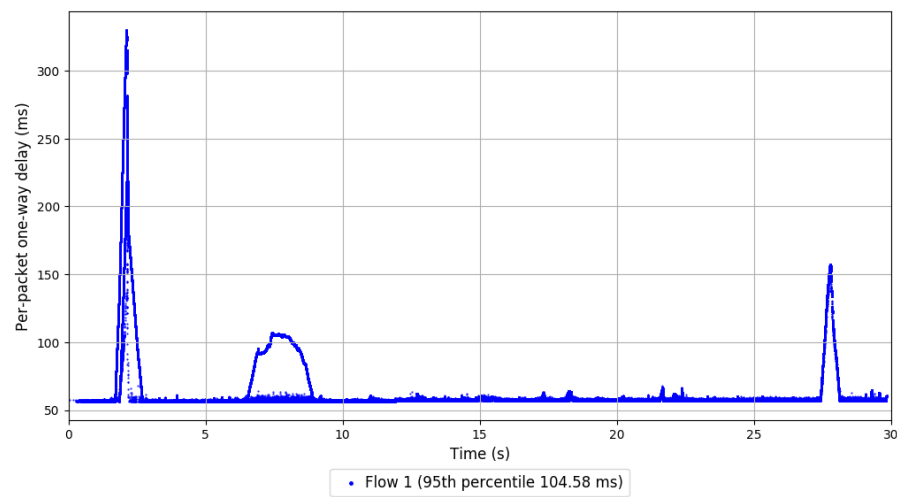
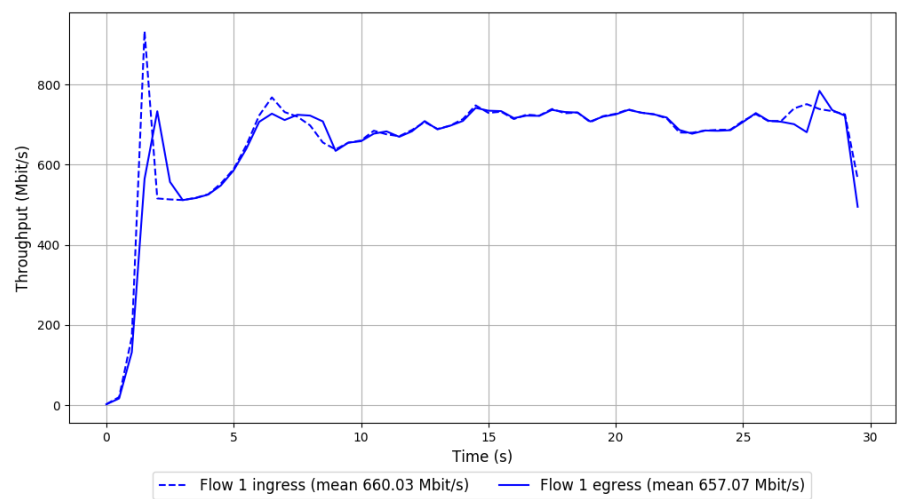
-- Flow 1:

Average throughput: 657.07 Mbit/s

95th percentile per-packet one-way delay: 104.580 ms

Loss rate: 0.79%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2018-01-02 04:07:44

End at: 2018-01-02 04:08:14

Below is generated by plot.py at 2018-01-02 07:54:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 652.01 Mbit/s

95th percentile per-packet one-way delay: 163.810 ms

Loss rate: 1.91%

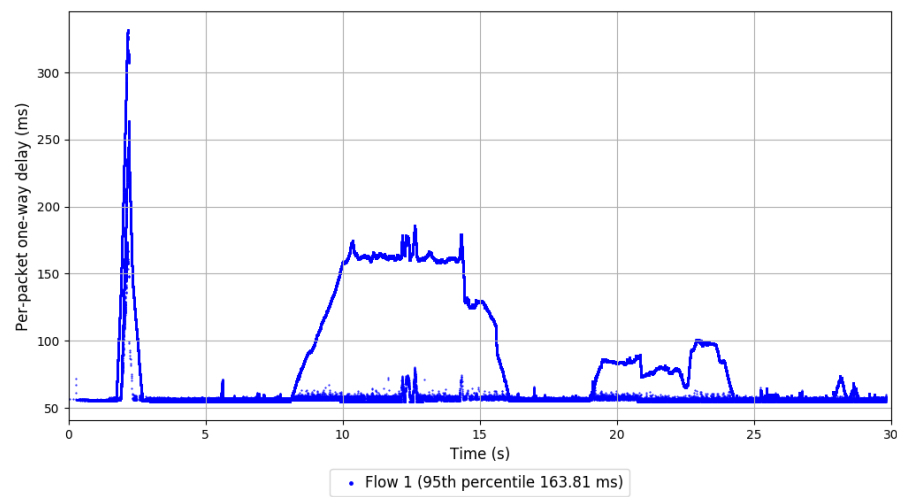
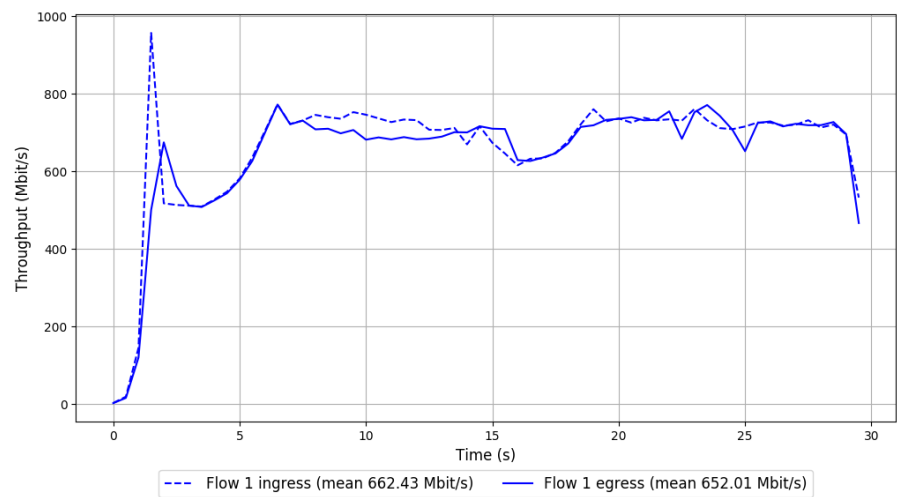
-- Flow 1:

Average throughput: 652.01 Mbit/s

95th percentile per-packet one-way delay: 163.810 ms

Loss rate: 1.91%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2018-01-02 04:19:26

End at: 2018-01-02 04:19:56

Below is generated by plot.py at 2018-01-02 07:54:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 621.12 Mbit/s

95th percentile per-packet one-way delay: 119.612 ms

Loss rate: 0.69%

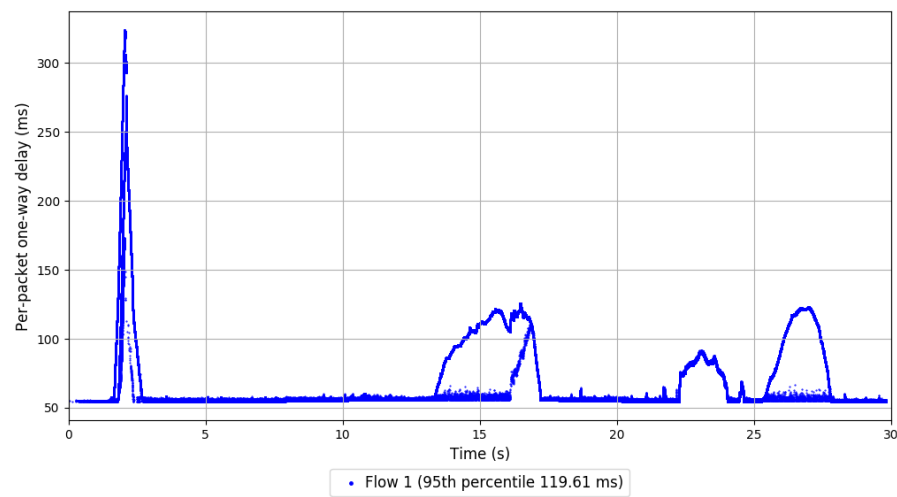
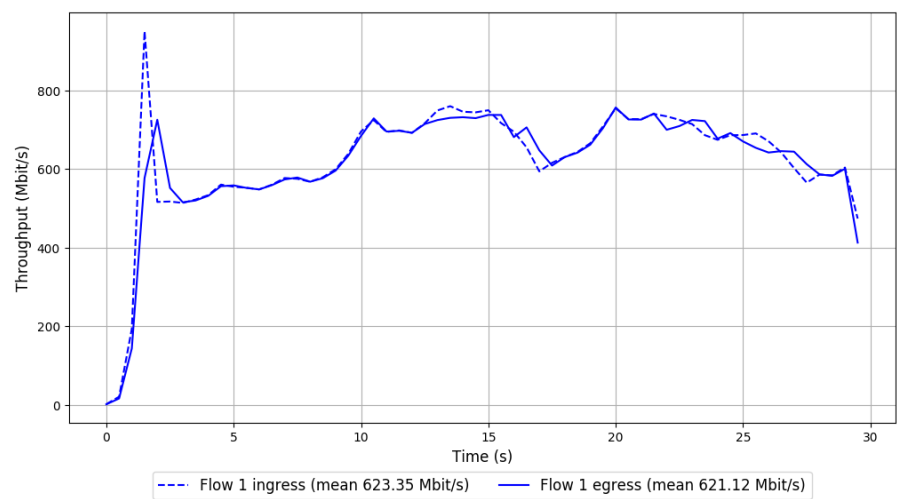
-- Flow 1:

Average throughput: 621.12 Mbit/s

95th percentile per-packet one-way delay: 119.612 ms

Loss rate: 0.69%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2018-01-02 04:31:14

End at: 2018-01-02 04:31:44

Below is generated by plot.py at 2018-01-02 07:55:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 657.42 Mbit/s

95th percentile per-packet one-way delay: 113.764 ms

Loss rate: 0.62%

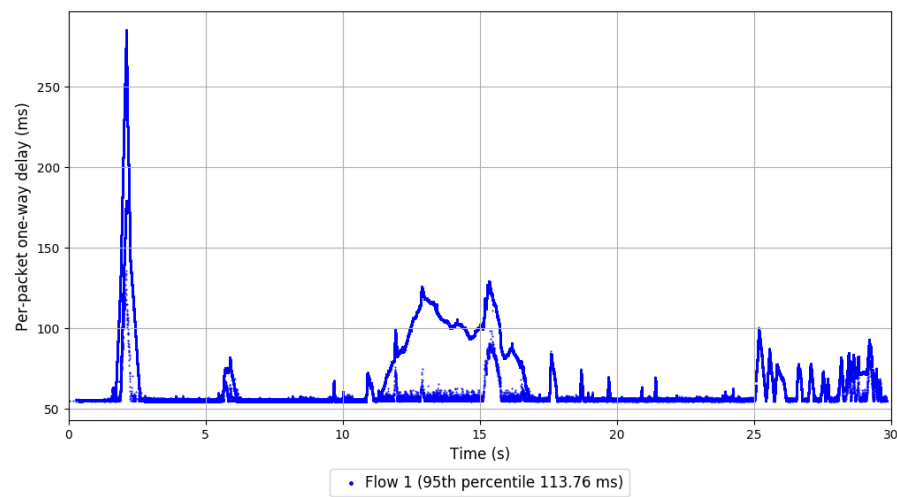
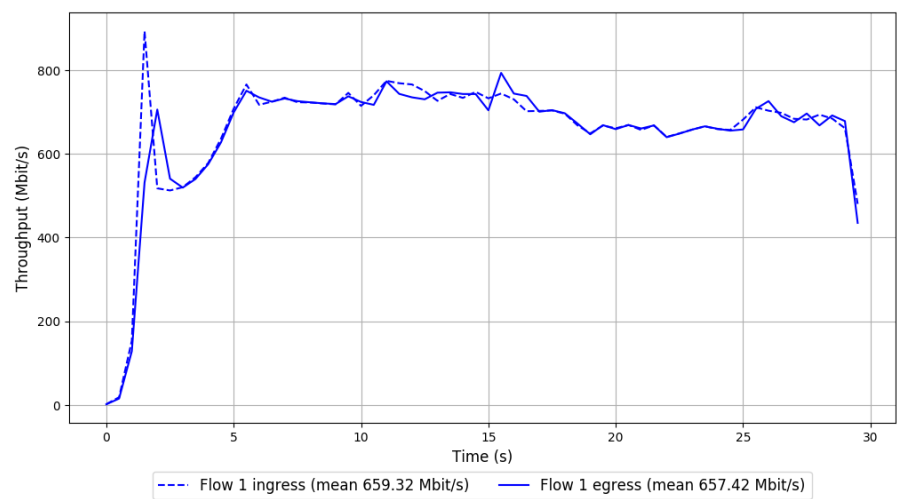
-- Flow 1:

Average throughput: 657.42 Mbit/s

95th percentile per-packet one-way delay: 113.764 ms

Loss rate: 0.62%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2018-01-02 04:42:58

End at: 2018-01-02 04:43:28

Below is generated by plot.py at 2018-01-02 07:55:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 646.57 Mbit/s

95th percentile per-packet one-way delay: 203.910 ms

Loss rate: 2.25%

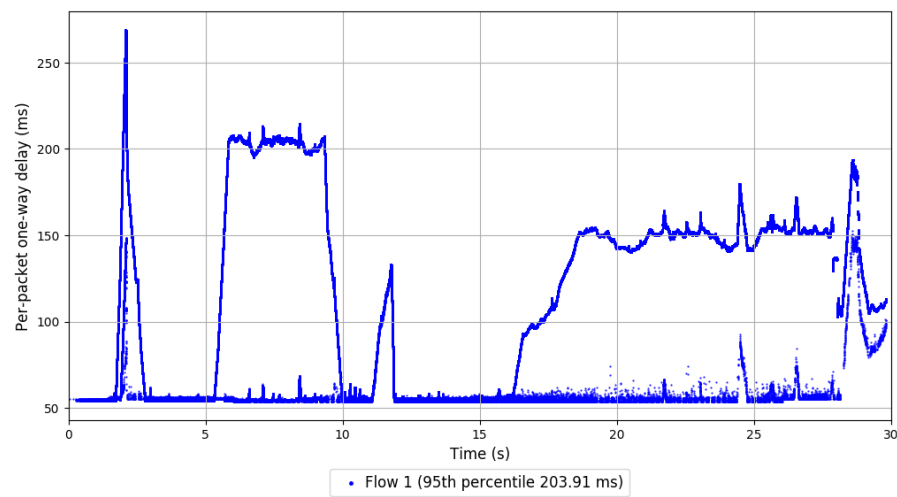
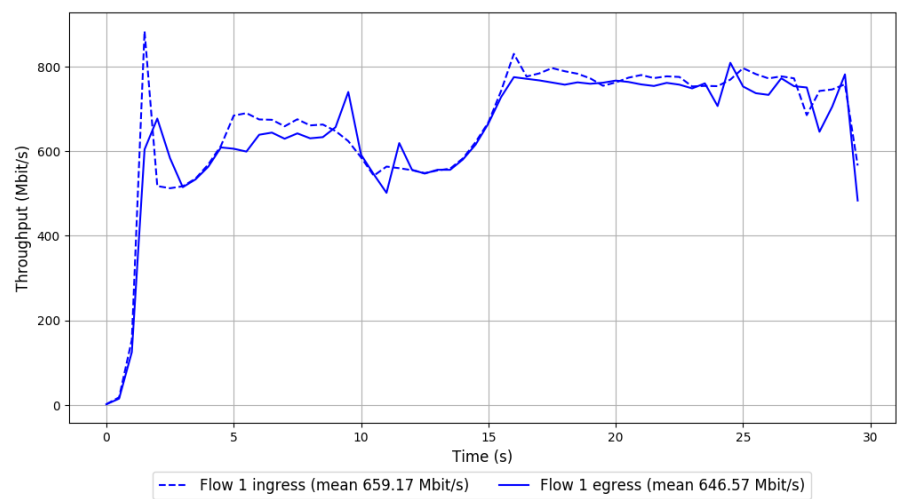
-- Flow 1:

Average throughput: 646.57 Mbit/s

95th percentile per-packet one-way delay: 203.910 ms

Loss rate: 2.25%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2018-01-02 04:54:40

End at: 2018-01-02 04:55:10

Below is generated by plot.py at 2018-01-02 07:55:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 568.31 Mbit/s

95th percentile per-packet one-way delay: 87.988 ms

Loss rate: 0.71%

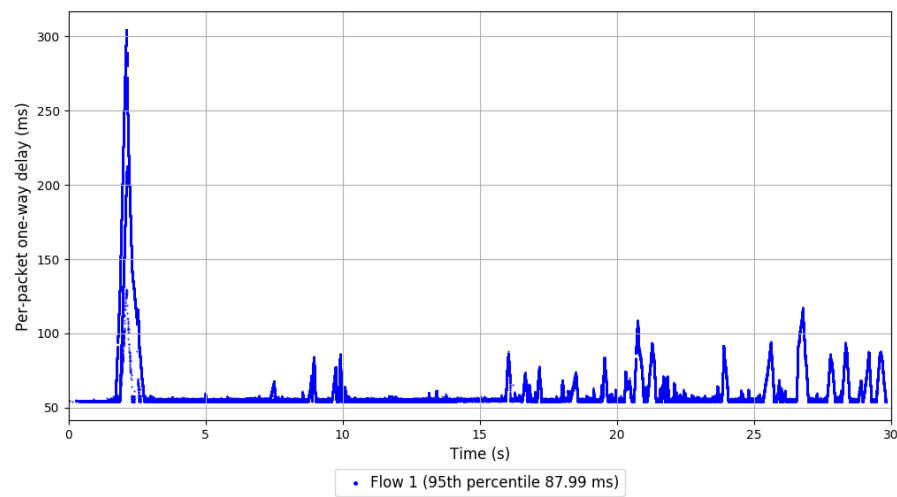
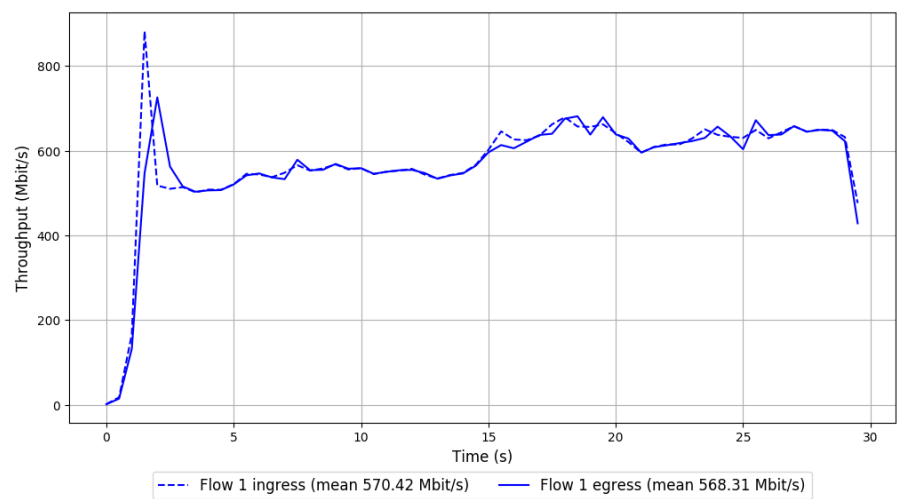
-- Flow 1:

Average throughput: 568.31 Mbit/s

95th percentile per-packet one-way delay: 87.988 ms

Loss rate: 0.71%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2018-01-02 05:06:25

End at: 2018-01-02 05:06:55

Below is generated by plot.py at 2018-01-02 07:55:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 575.89 Mbit/s

95th percentile per-packet one-way delay: 173.262 ms

Loss rate: 2.47%

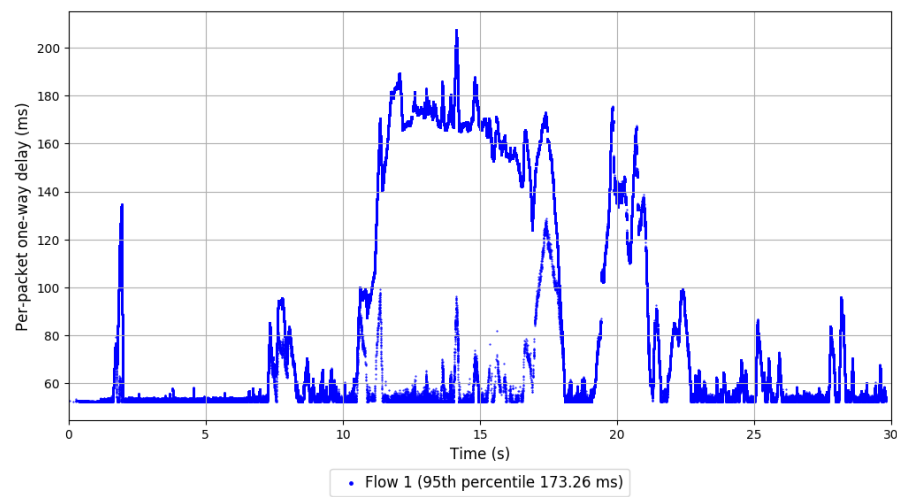
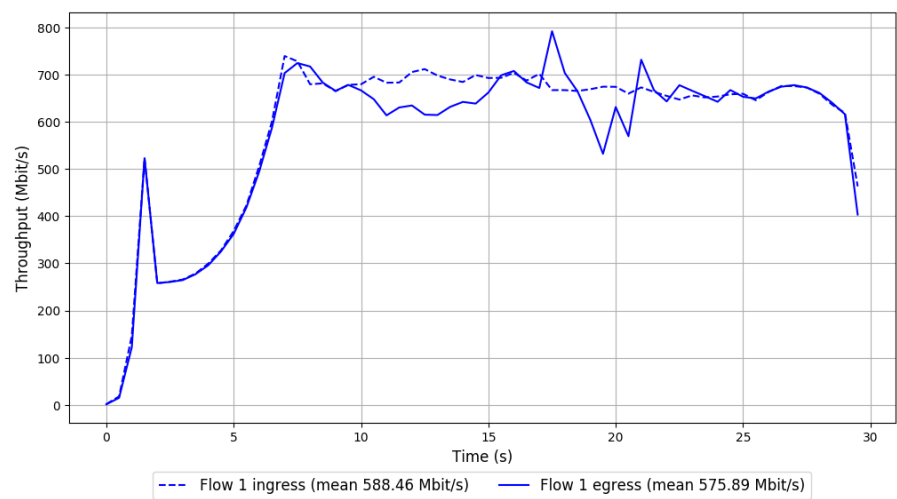
-- Flow 1:

Average throughput: 575.89 Mbit/s

95th percentile per-packet one-way delay: 173.262 ms

Loss rate: 2.47%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2018-01-02 05:17:49

End at: 2018-01-02 05:18:19

Below is generated by plot.py at 2018-01-02 08:04:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 587.76 Mbit/s

95th percentile per-packet one-way delay: 85.895 ms

Loss rate: 0.48%

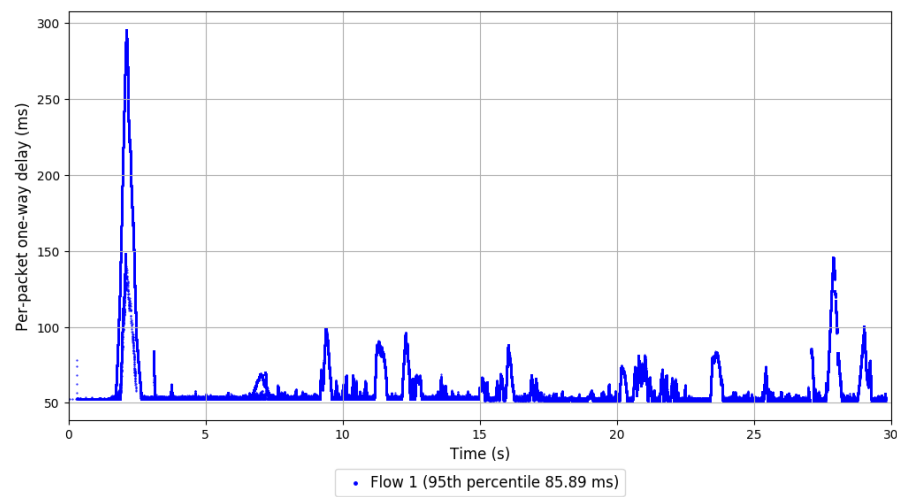
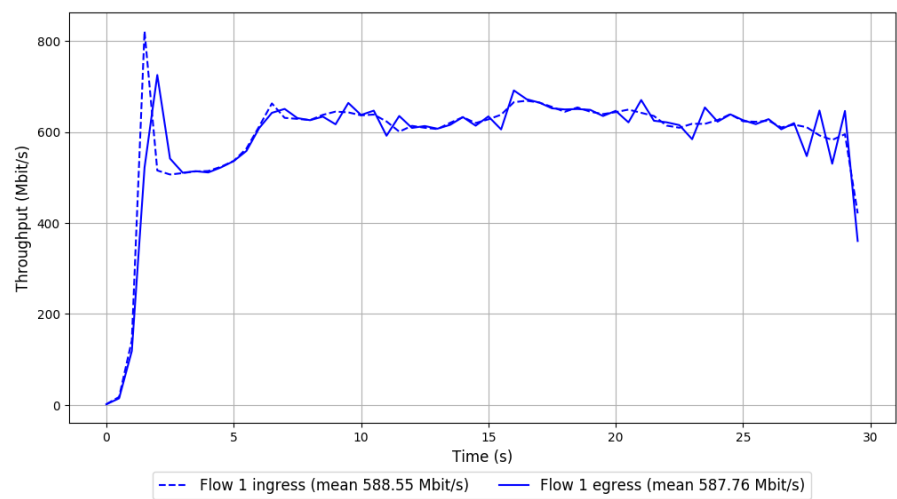
-- Flow 1:

Average throughput: 587.76 Mbit/s

95th percentile per-packet one-way delay: 85.895 ms

Loss rate: 0.48%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2018-01-02 05:29:04

End at: 2018-01-02 05:29:34

Below is generated by plot.py at 2018-01-02 08:04:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 592.82 Mbit/s

95th percentile per-packet one-way delay: 80.075 ms

Loss rate: 0.39%

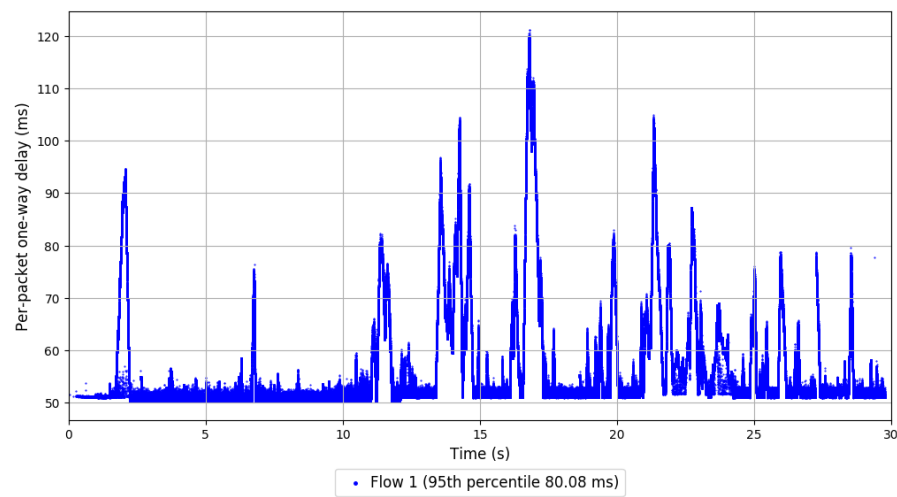
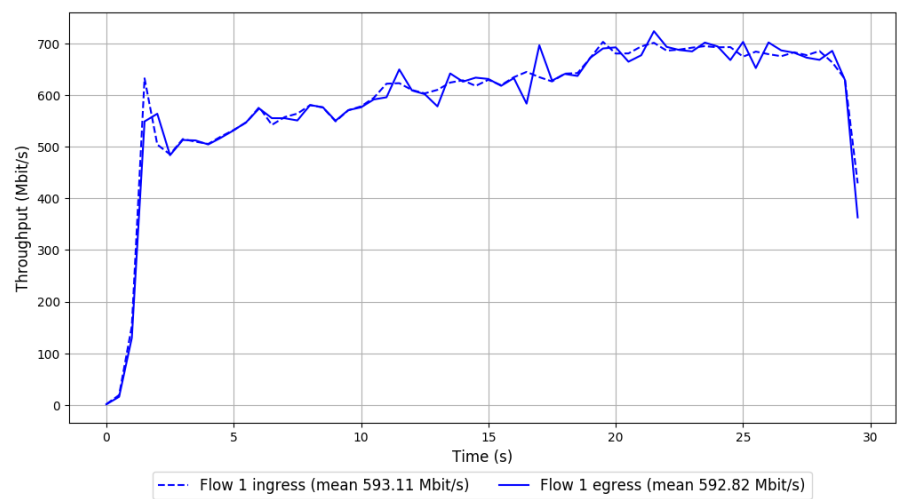
-- Flow 1:

Average throughput: 592.82 Mbit/s

95th percentile per-packet one-way delay: 80.075 ms

Loss rate: 0.39%

Run 10: Report of PCC — Data Link

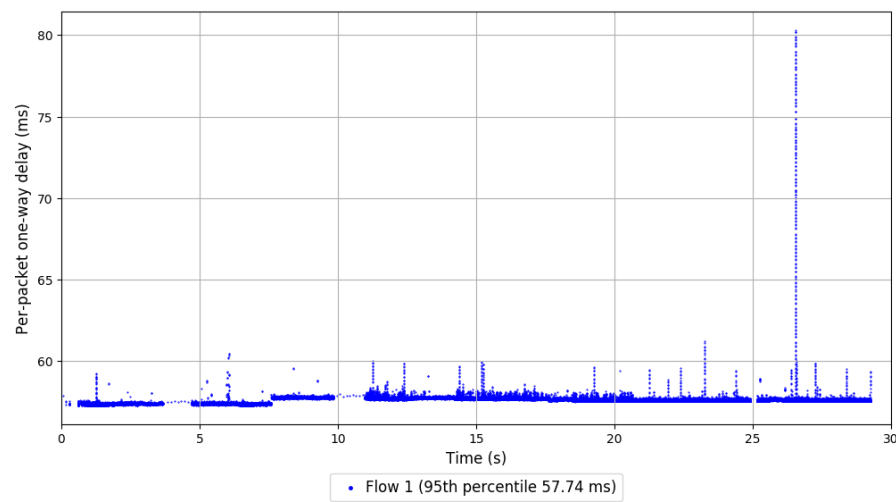
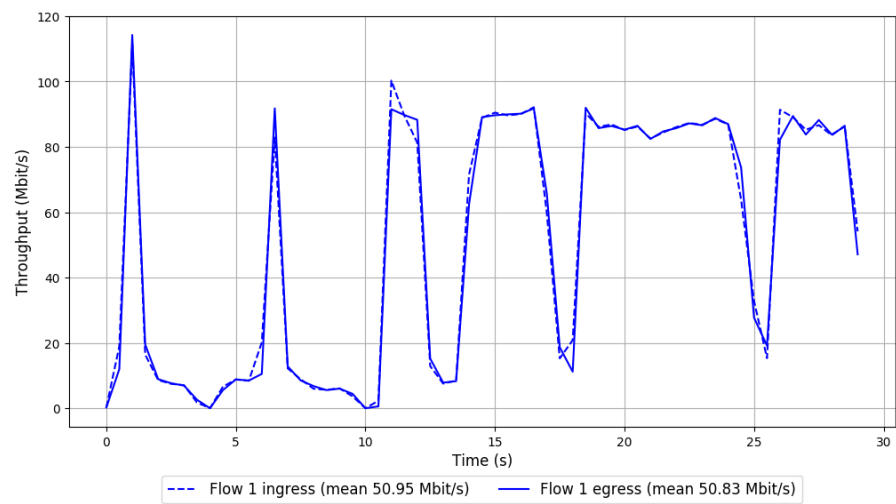


```
Run 1: Statistics of QUIC Cubic

Start at: 2018-01-02 03:46:36
End at: 2018-01-02 03:47:06

# Below is generated by plot.py at 2018-01-02 08:04:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 50.83 Mbit/s
95th percentile per-packet one-way delay: 57.745 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 50.83 Mbit/s
95th percentile per-packet one-way delay: 57.745 ms
Loss rate: 0.57%
```

Run 1: Report of QUIC Cubic — Data Link

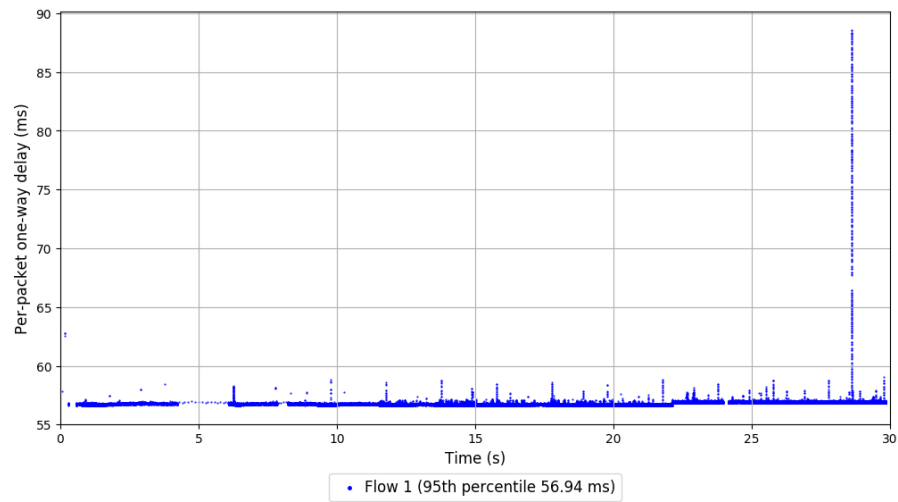
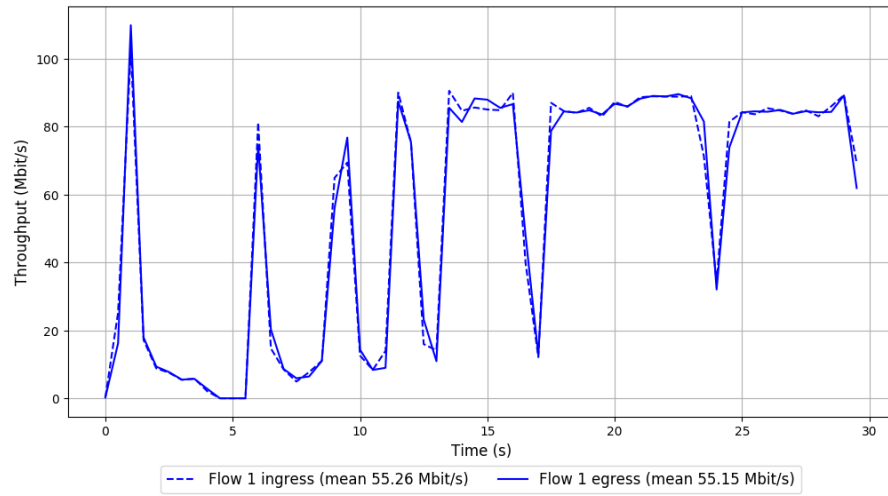


```
Run 2: Statistics of QUIC Cubic

Start at: 2018-01-02 03:58:22
End at: 2018-01-02 03:58:52

# Below is generated by plot.py at 2018-01-02 08:04:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 55.15 Mbit/s
95th percentile per-packet one-way delay: 56.944 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 55.15 Mbit/s
95th percentile per-packet one-way delay: 56.944 ms
Loss rate: 0.54%
```

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-01-02 04:10:10

End at: 2018-01-02 04:10:40

Below is generated by plot.py at 2018-01-02 08:04:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 56.13 Mbit/s

95th percentile per-packet one-way delay: 56.433 ms

Loss rate: 0.52%

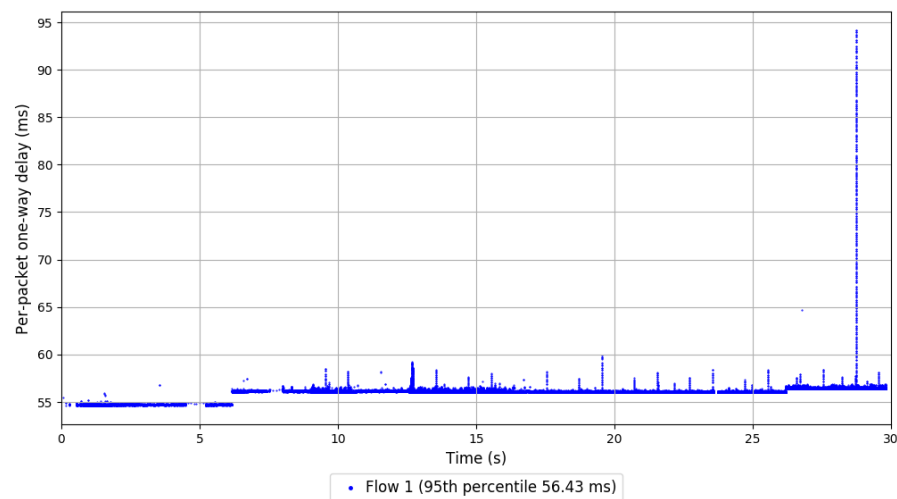
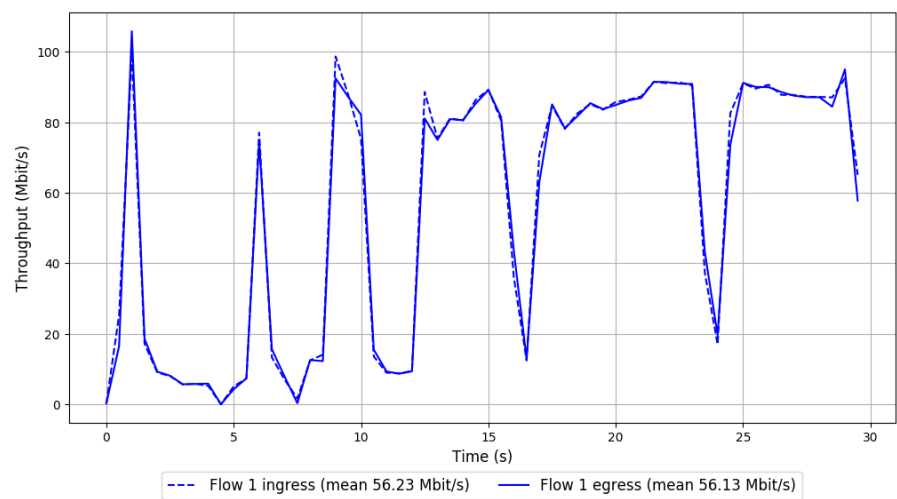
-- Flow 1:

Average throughput: 56.13 Mbit/s

95th percentile per-packet one-way delay: 56.433 ms

Loss rate: 0.52%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-01-02 04:21:53

End at: 2018-01-02 04:22:23

Below is generated by plot.py at 2018-01-02 08:04:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 52.35 Mbit/s

95th percentile per-packet one-way delay: 55.729 ms

Loss rate: 0.55%

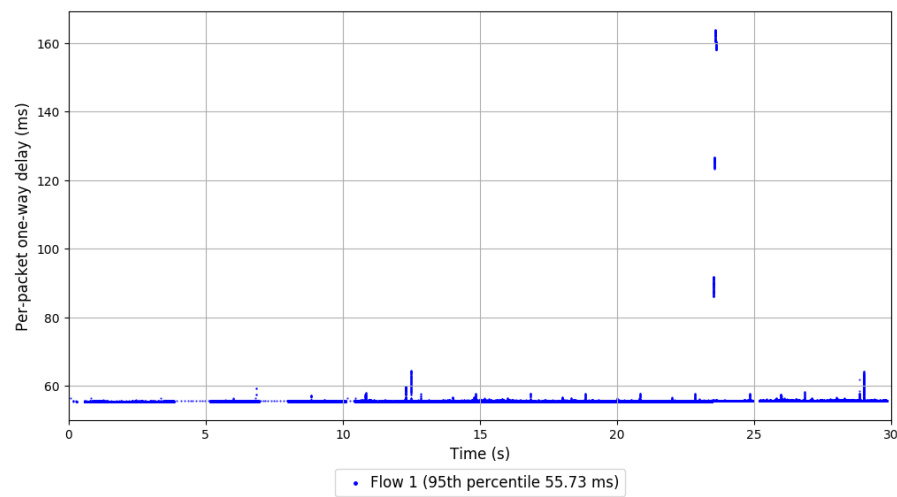
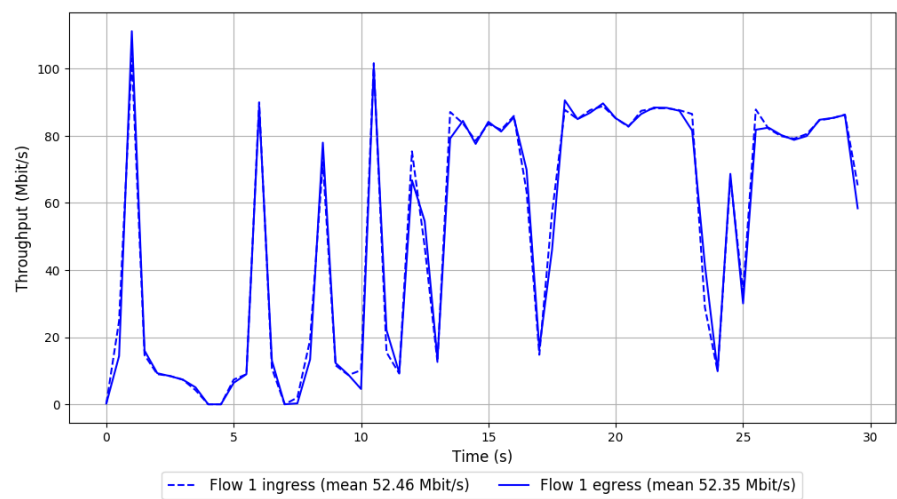
-- Flow 1:

Average throughput: 52.35 Mbit/s

95th percentile per-packet one-way delay: 55.729 ms

Loss rate: 0.55%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-01-02 04:33:41

End at: 2018-01-02 04:34:11

Below is generated by plot.py at 2018-01-02 08:04:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 54.37 Mbit/s

95th percentile per-packet one-way delay: 54.735 ms

Loss rate: 0.49%

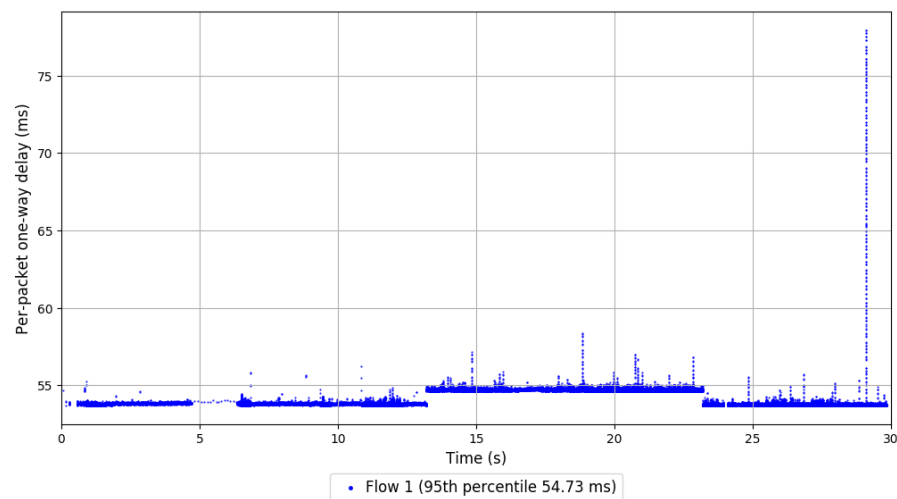
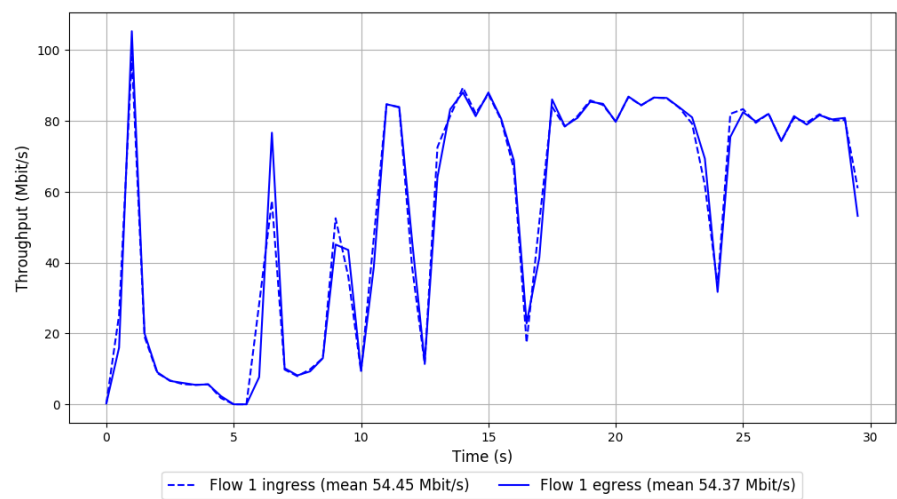
-- Flow 1:

Average throughput: 54.37 Mbit/s

95th percentile per-packet one-way delay: 54.735 ms

Loss rate: 0.49%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-01-02 04:45:25

End at: 2018-01-02 04:45:55

Below is generated by plot.py at 2018-01-02 08:04:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 57.02 Mbit/s

95th percentile per-packet one-way delay: 54.835 ms

Loss rate: 0.50%

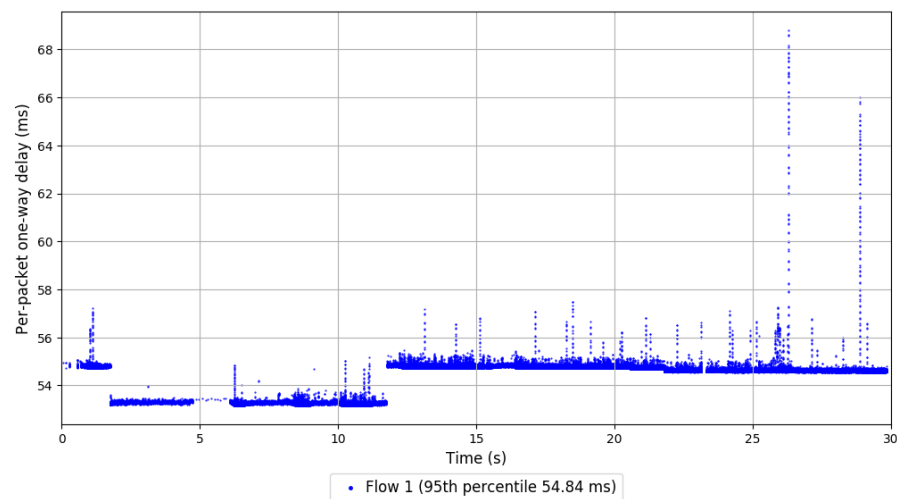
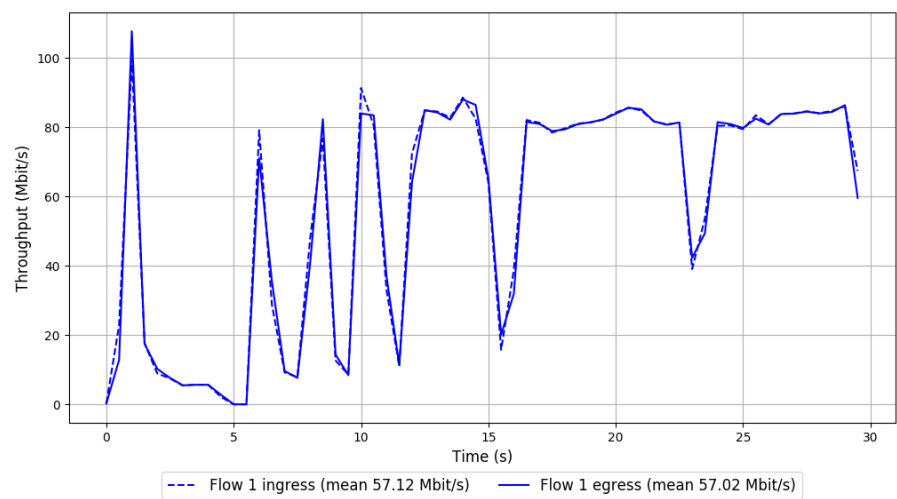
-- Flow 1:

Average throughput: 57.02 Mbit/s

95th percentile per-packet one-way delay: 54.835 ms

Loss rate: 0.50%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-01-02 04:57:05

End at: 2018-01-02 04:57:35

Below is generated by plot.py at 2018-01-02 08:04:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 46.54 Mbit/s

95th percentile per-packet one-way delay: 53.925 ms

Loss rate: 0.53%

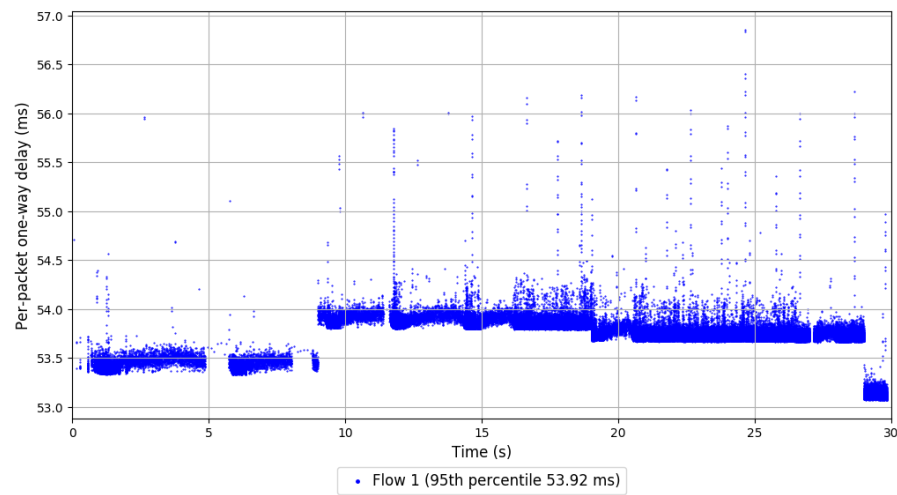
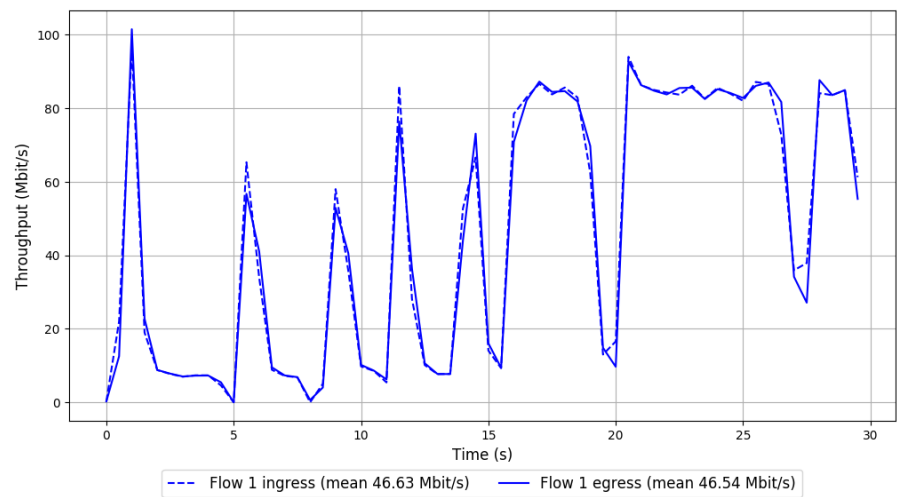
-- Flow 1:

Average throughput: 46.54 Mbit/s

95th percentile per-packet one-way delay: 53.925 ms

Loss rate: 0.53%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-01-02 05:08:52

End at: 2018-01-02 05:09:22

Below is generated by plot.py at 2018-01-02 08:04:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 51.60 Mbit/s

95th percentile per-packet one-way delay: 53.081 ms

Loss rate: 0.52%

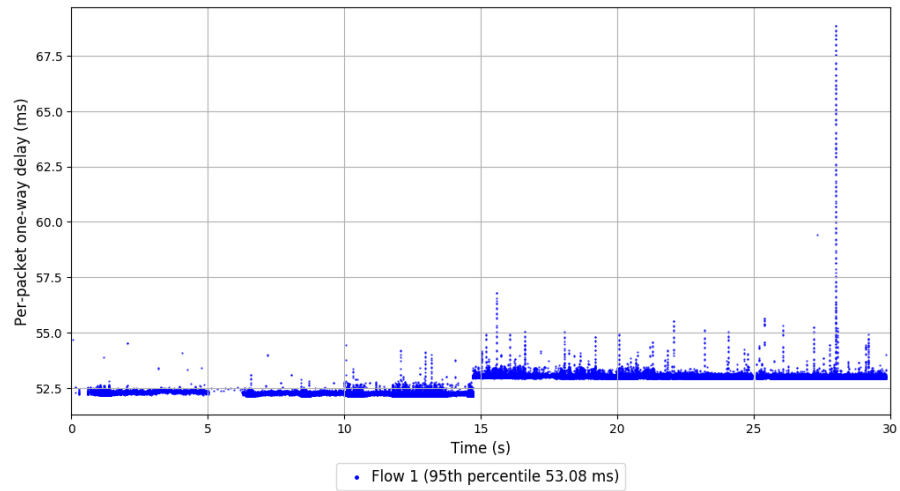
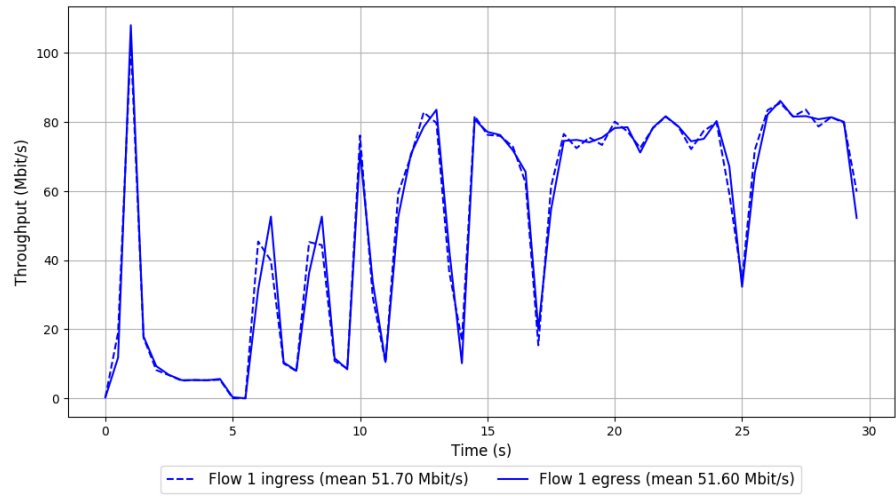
-- Flow 1:

Average throughput: 51.60 Mbit/s

95th percentile per-packet one-way delay: 53.081 ms

Loss rate: 0.52%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-01-02 05:20:13

End at: 2018-01-02 05:20:43

Below is generated by plot.py at 2018-01-02 08:04:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 63.43 Mbit/s

95th percentile per-packet one-way delay: 51.757 ms

Loss rate: 0.36%

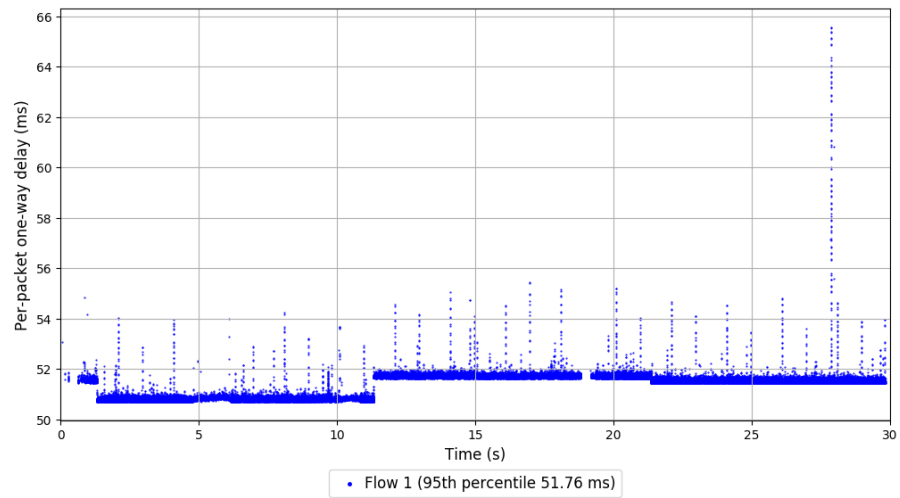
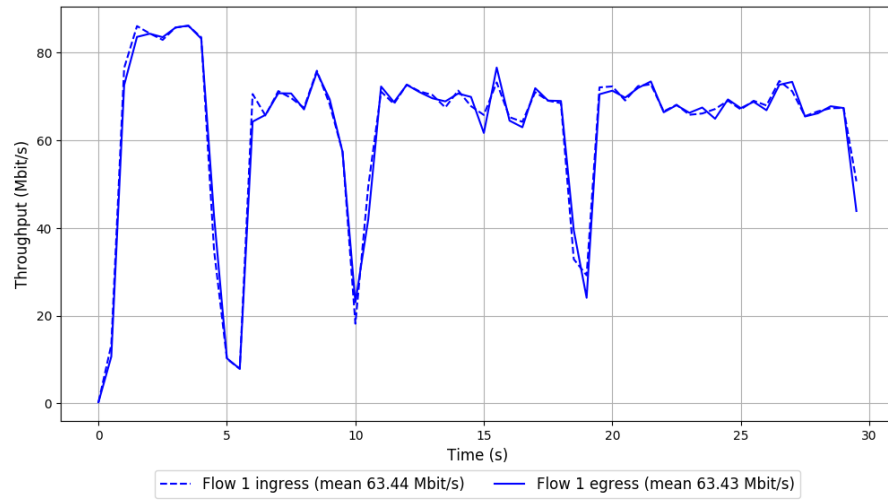
-- Flow 1:

Average throughput: 63.43 Mbit/s

95th percentile per-packet one-way delay: 51.757 ms

Loss rate: 0.36%

Run 9: Report of QUIC Cubic — Data Link

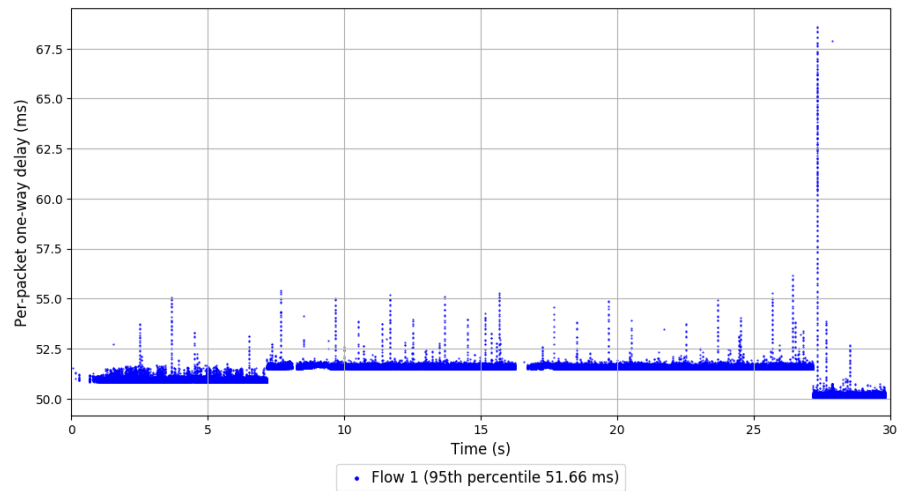
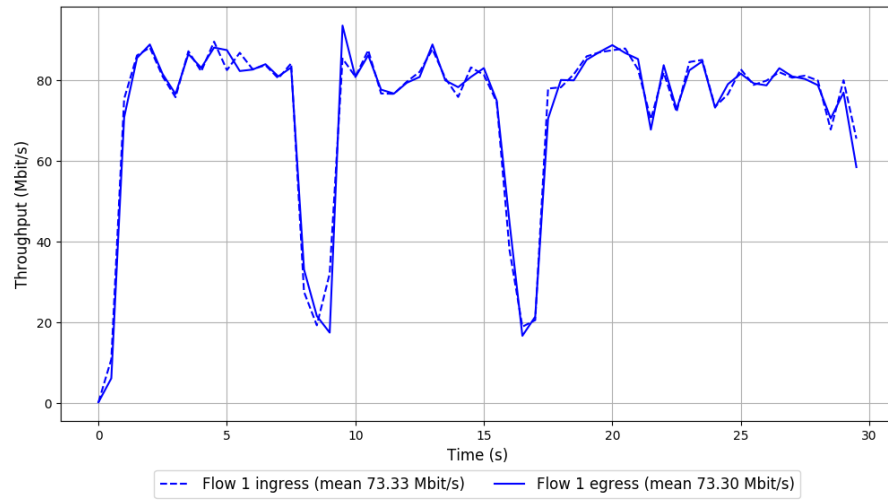


```
Run 10: Statistics of QUIC Cubic

Start at: 2018-01-02 05:31:29
End at: 2018-01-02 05:31:59

# Below is generated by plot.py at 2018-01-02 08:04:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 73.30 Mbit/s
95th percentile per-packet one-way delay: 51.655 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 73.30 Mbit/s
95th percentile per-packet one-way delay: 51.655 ms
Loss rate: 0.38%
```

Run 10: Report of QUIC Cubic — Data Link

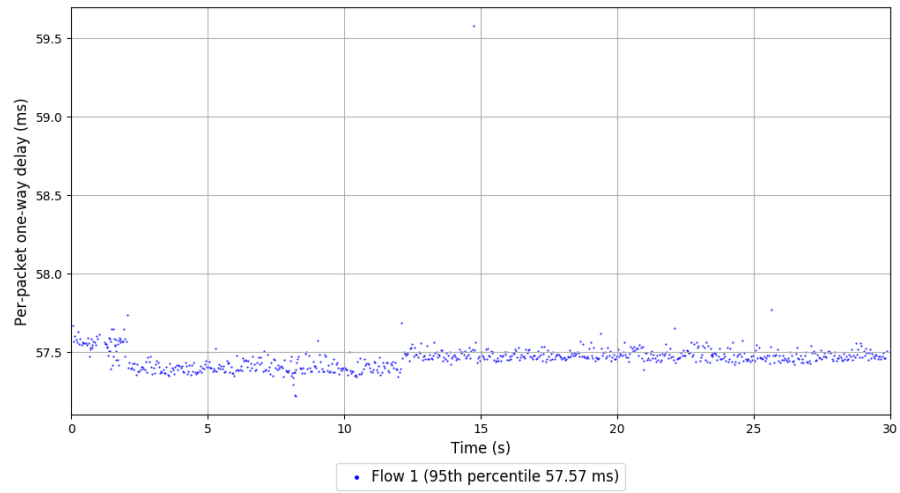
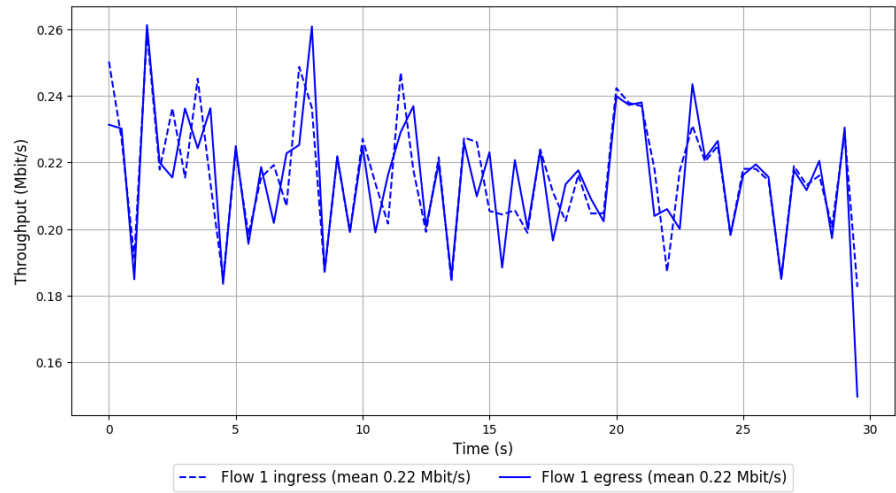


```
Run 1: Statistics of SCReAM

Start at: 2018-01-02 03:43:32
End at: 2018-01-02 03:44:02

# Below is generated by plot.py at 2018-01-02 08:04:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 57.567 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 57.567 ms
Loss rate: 0.38%
```

Run 1: Report of SReAM — Data Link

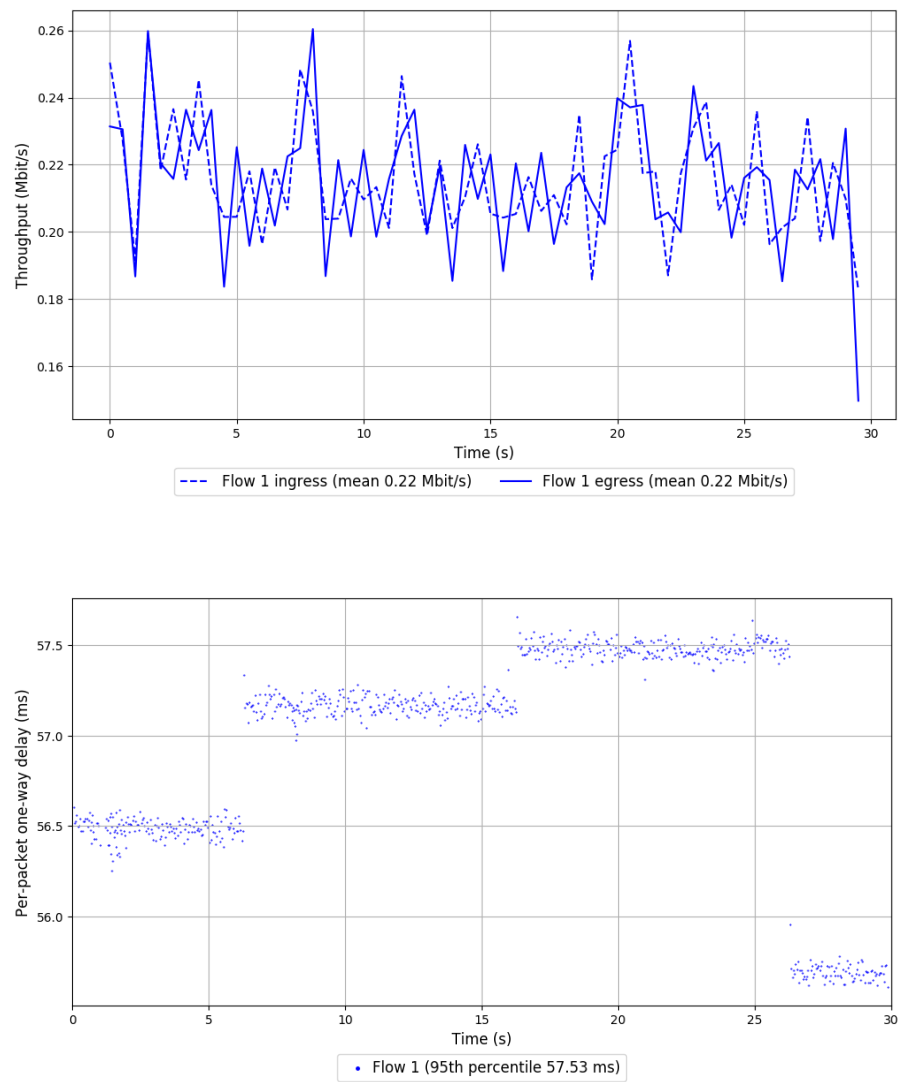


```
Run 2: Statistics of SCReAM

Start at: 2018-01-02 03:55:18
End at: 2018-01-02 03:55:48

# Below is generated by plot.py at 2018-01-02 08:04:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 57.528 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 57.528 ms
Loss rate: 0.38%
```

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-01-02 04:07:07

End at: 2018-01-02 04:07:37

Below is generated by plot.py at 2018-01-02 08:04:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 56.967 ms

Loss rate: 0.38%

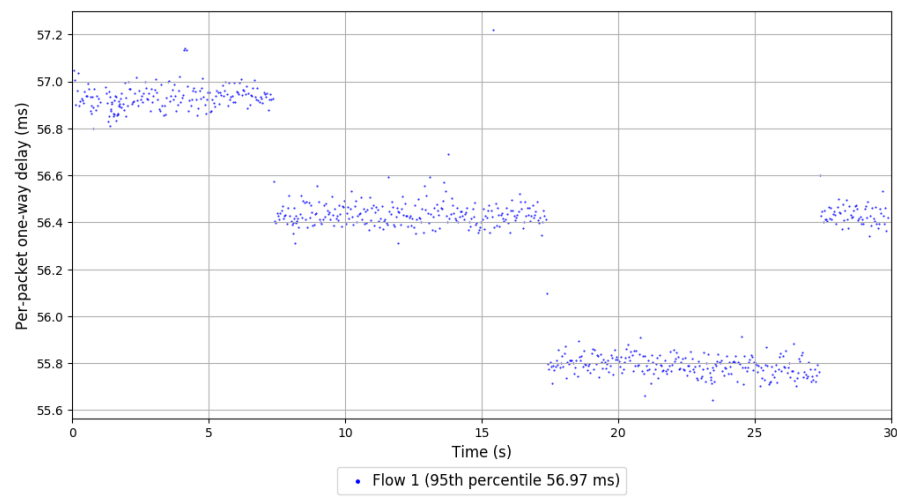
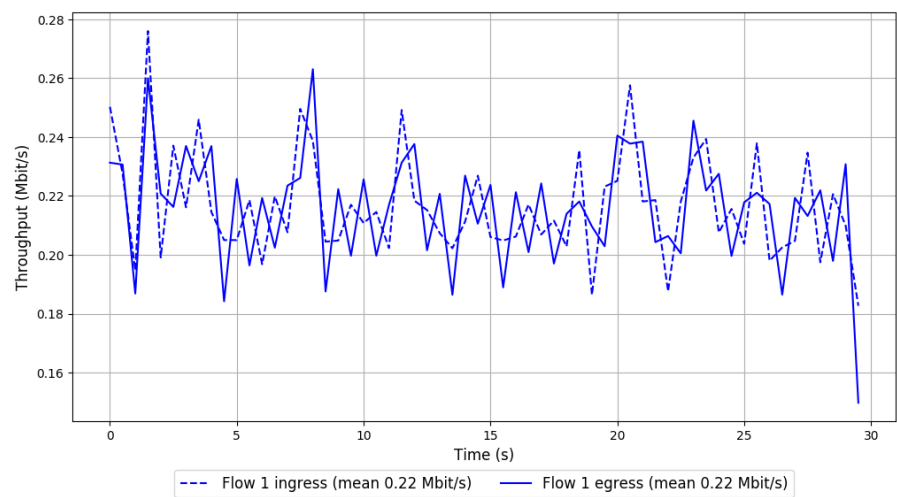
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 56.967 ms

Loss rate: 0.38%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2018-01-02 04:18:50

End at: 2018-01-02 04:19:20

Below is generated by plot.py at 2018-01-02 08:04:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 56.140 ms

Loss rate: 0.38%

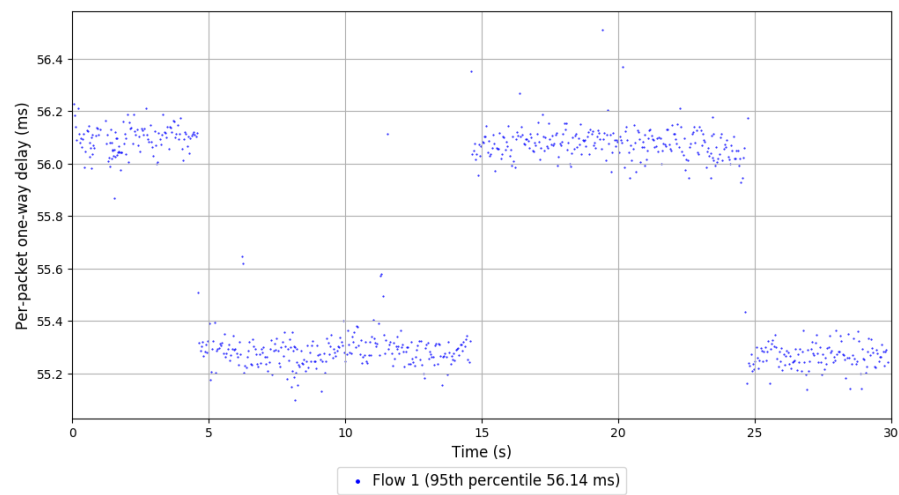
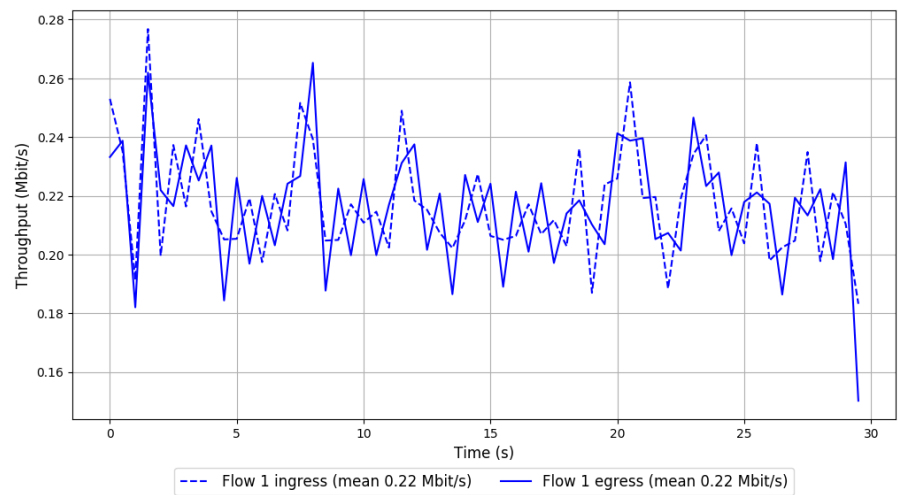
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 56.140 ms

Loss rate: 0.38%

Run 4: Report of SReAM — Data Link

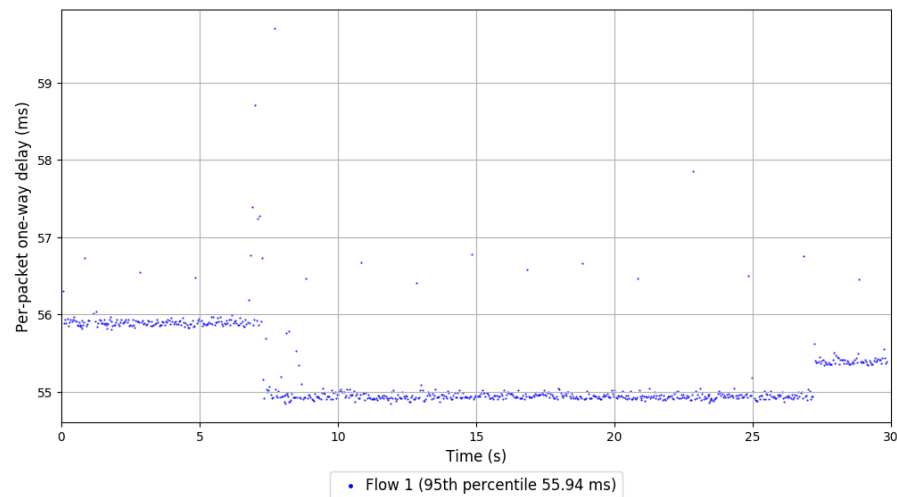
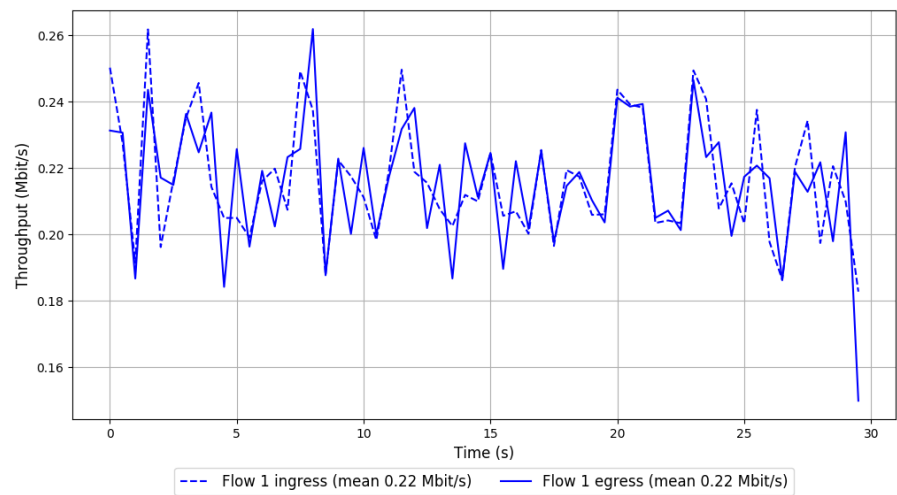


```
Run 5: Statistics of SCReAM

Start at: 2018-01-02 04:30:37
End at: 2018-01-02 04:31:07

# Below is generated by plot.py at 2018-01-02 08:04:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 55.939 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 55.939 ms
Loss rate: 0.38%
```

Run 5: Report of SReAM — Data Link

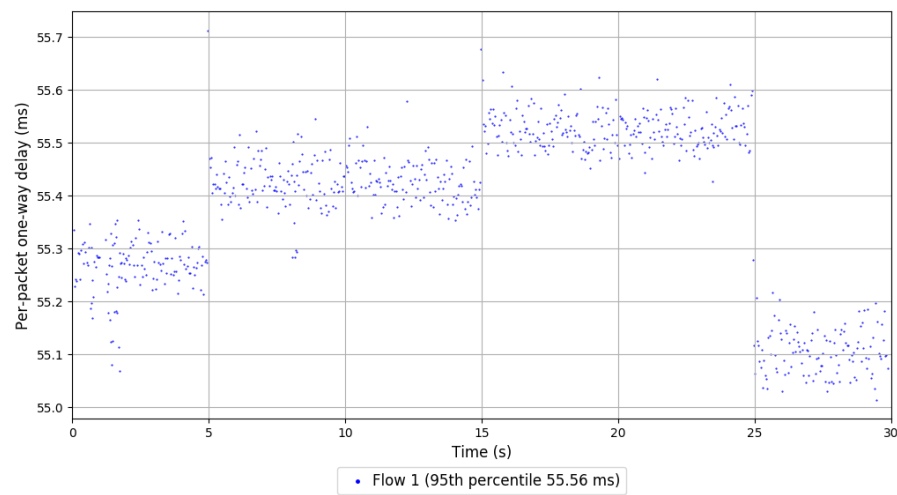
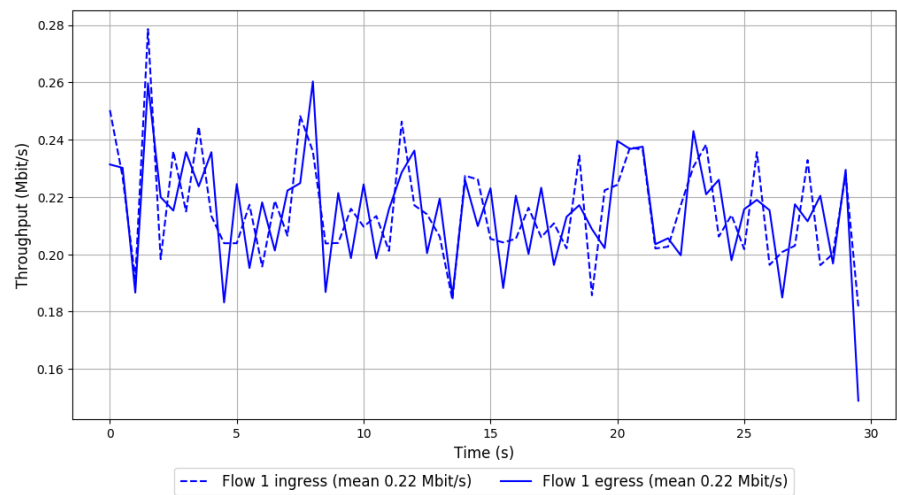


```
Run 6: Statistics of SCReAM

Start at: 2018-01-02 04:42:22
End at: 2018-01-02 04:42:52

# Below is generated by plot.py at 2018-01-02 08:04:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 55.564 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 55.564 ms
Loss rate: 0.38%
```

Run 6: Report of SReAM — Data Link

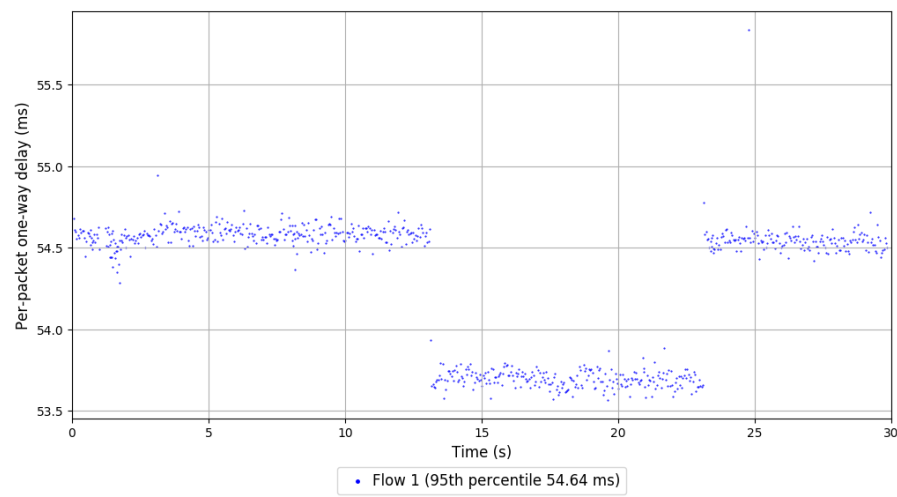
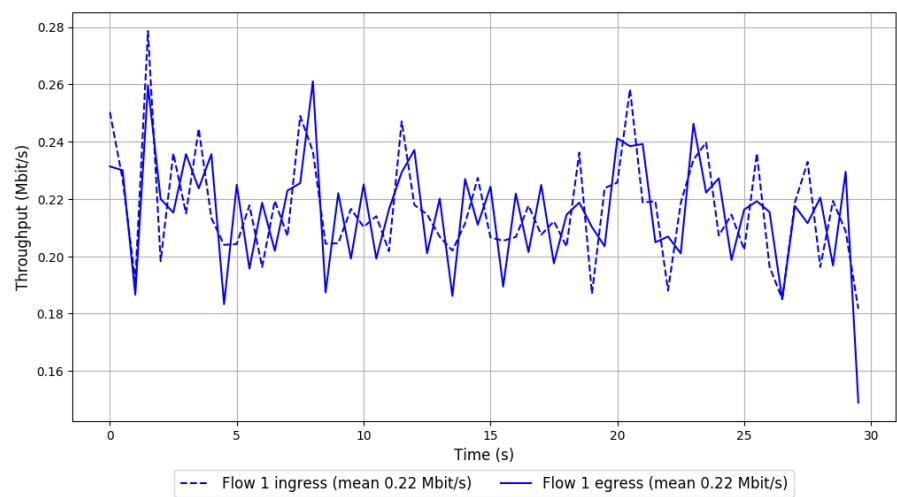


```
Run 7: Statistics of SCReAM

Start at: 2018-01-02 04:54:04
End at: 2018-01-02 04:54:34

# Below is generated by plot.py at 2018-01-02 08:04:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 54.643 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 54.643 ms
Loss rate: 0.38%
```

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-01-02 05:05:49

End at: 2018-01-02 05:06:19

Below is generated by plot.py at 2018-01-02 08:04:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 53.780 ms

Loss rate: 0.38%

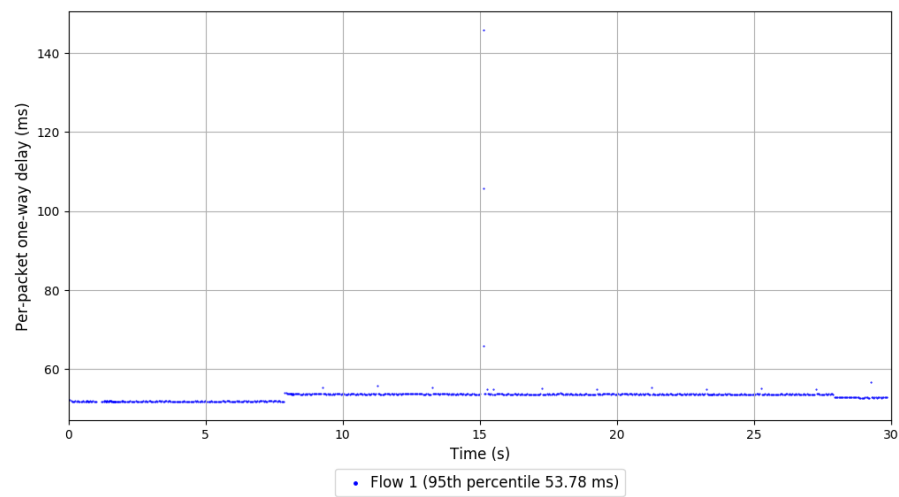
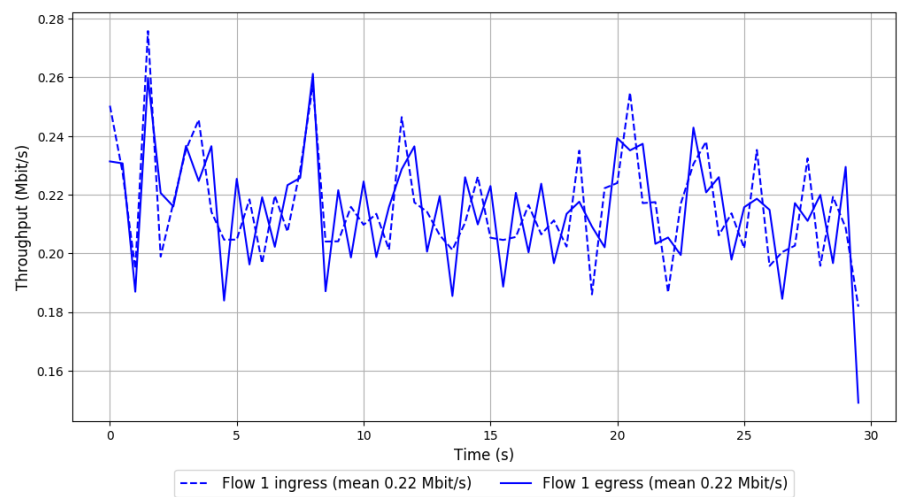
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 53.780 ms

Loss rate: 0.38%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-01-02 05:17:13

End at: 2018-01-02 05:17:43

Below is generated by plot.py at 2018-01-02 08:04:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 52.873 ms

Loss rate: 0.25%

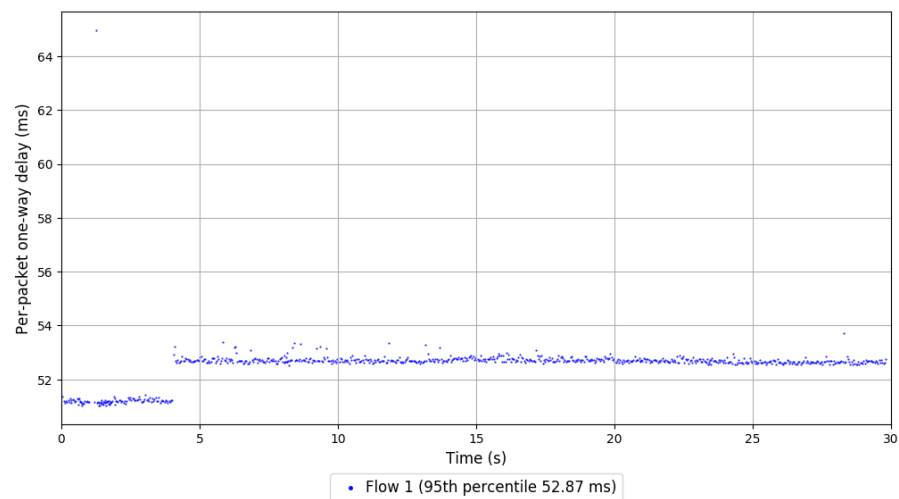
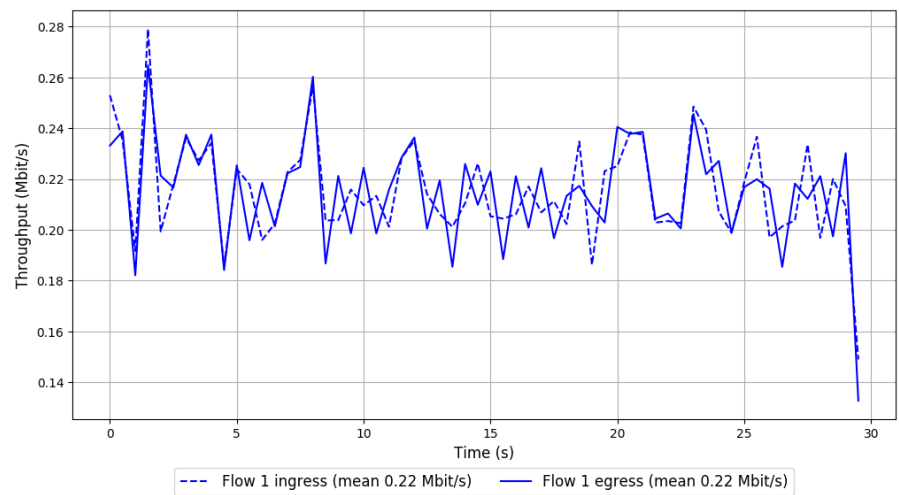
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 52.873 ms

Loss rate: 0.25%

Run 9: Report of SReAM — Data Link

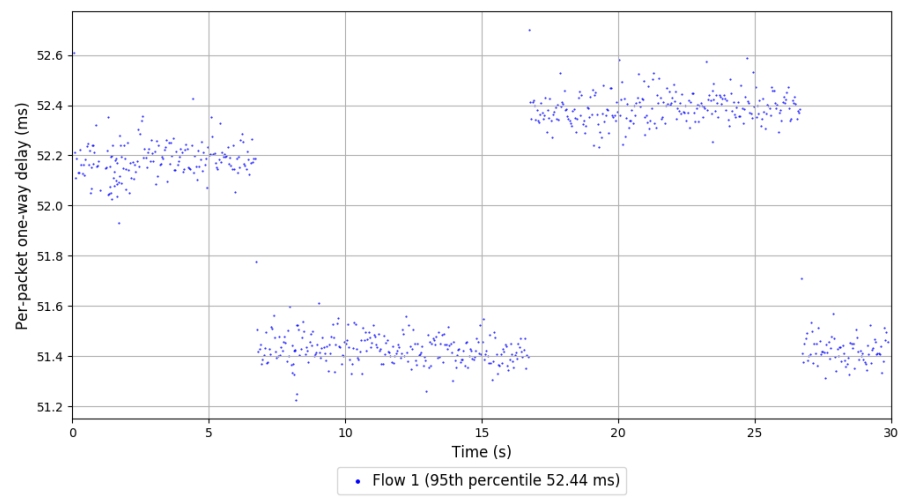
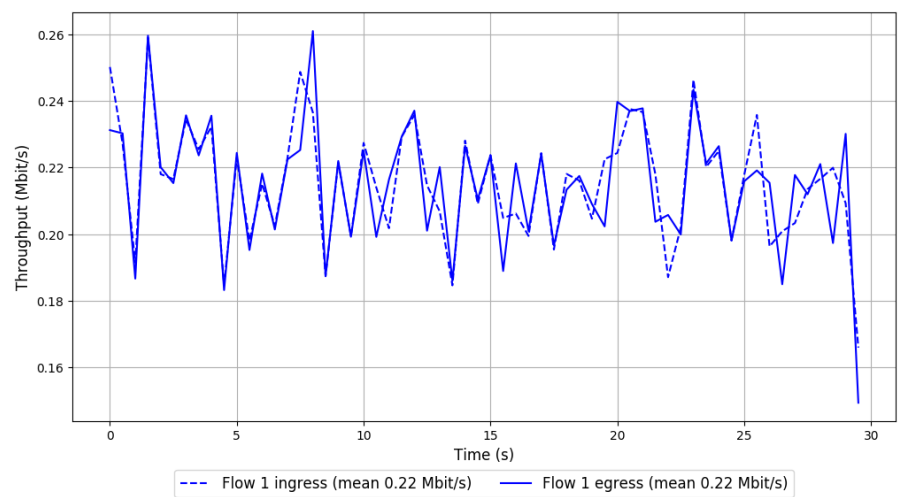


```
Run 10: Statistics of SReAM

Start at: 2018-01-02 05:28:28
End at: 2018-01-02 05:28:58

# Below is generated by plot.py at 2018-01-02 08:04:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 52.443 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 52.443 ms
Loss rate: 0.25%
```

Run 10: Report of SReAM — Data Link

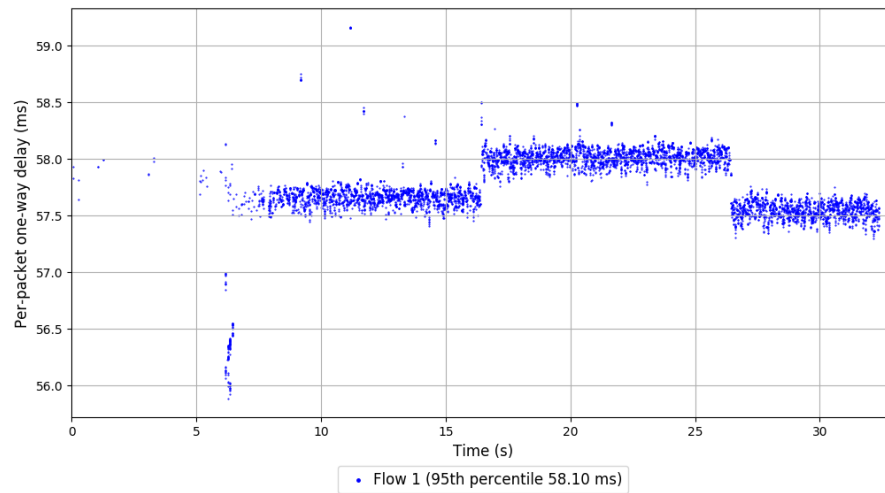
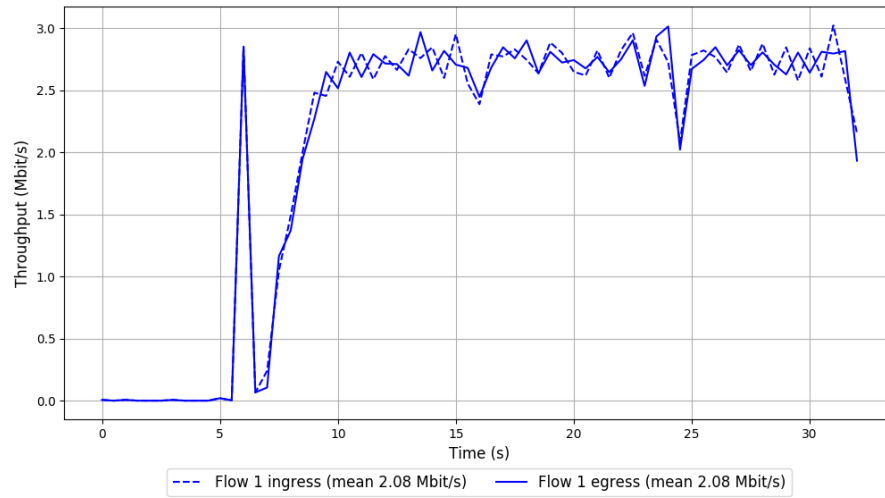


```
Run 1: Statistics of WebRTC media

Start at: 2018-01-02 03:45:10
End at: 2018-01-02 03:45:40

# Below is generated by plot.py at 2018-01-02 08:04:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.08 Mbit/s
95th percentile per-packet one-way delay: 58.102 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 2.08 Mbit/s
95th percentile per-packet one-way delay: 58.102 ms
Loss rate: 0.32%
```

Run 1: Report of WebRTC media — Data Link

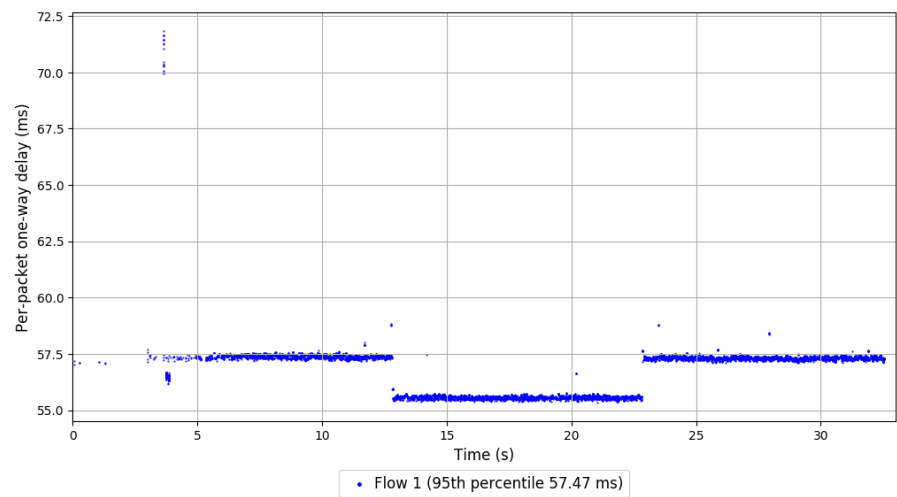
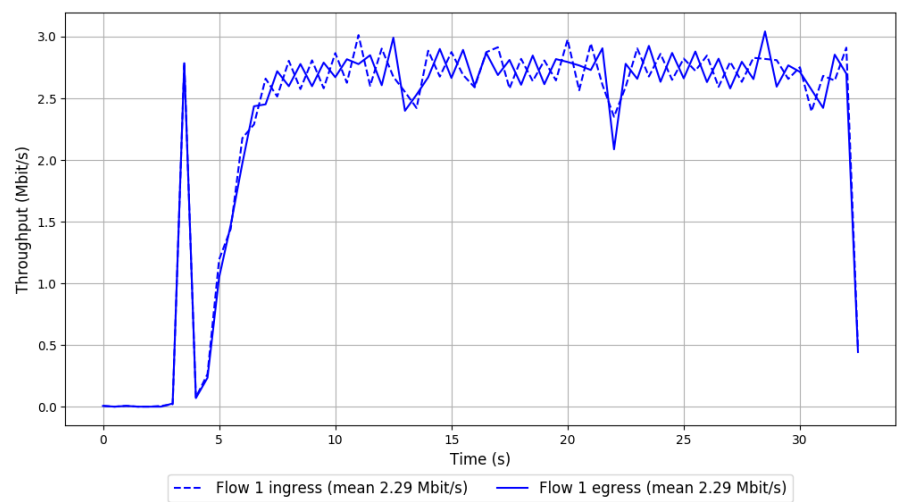


```
Run 2: Statistics of WebRTC media

Start at: 2018-01-02 03:56:56
End at: 2018-01-02 03:57:27

# Below is generated by plot.py at 2018-01-02 08:04:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.29 Mbit/s
95th percentile per-packet one-way delay: 57.473 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 2.29 Mbit/s
95th percentile per-packet one-way delay: 57.473 ms
Loss rate: 0.32%
```

Run 2: Report of WebRTC media — Data Link

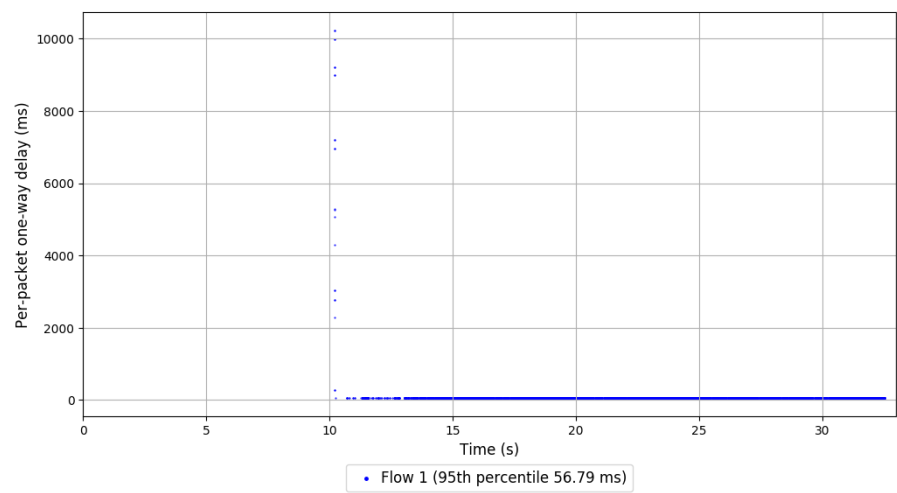
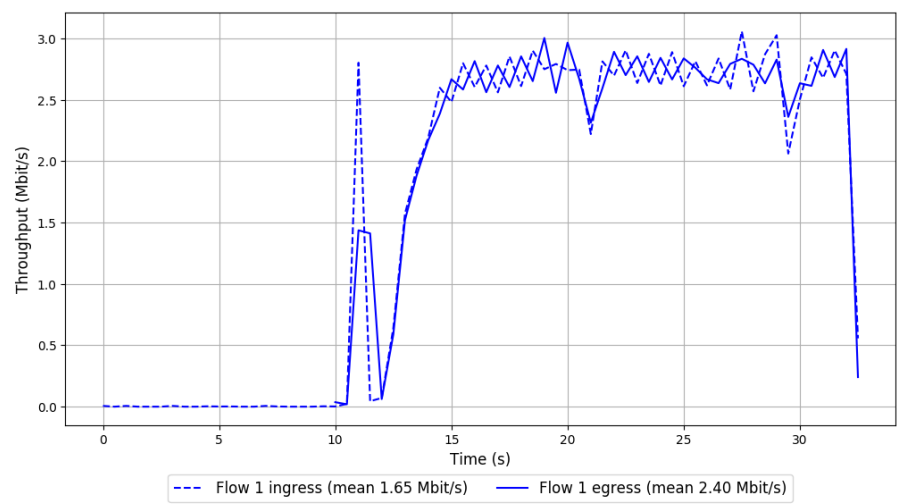


Run 3: Statistics of WebRTC media

Start at: 2018-01-02 04:08:45

End at: 2018-01-02 04:09:15

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-01-02 04:20:27

End at: 2018-01-02 04:20:57

Below is generated by plot.py at 2018-01-02 08:04:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 55.925 ms

Loss rate: 0.46%

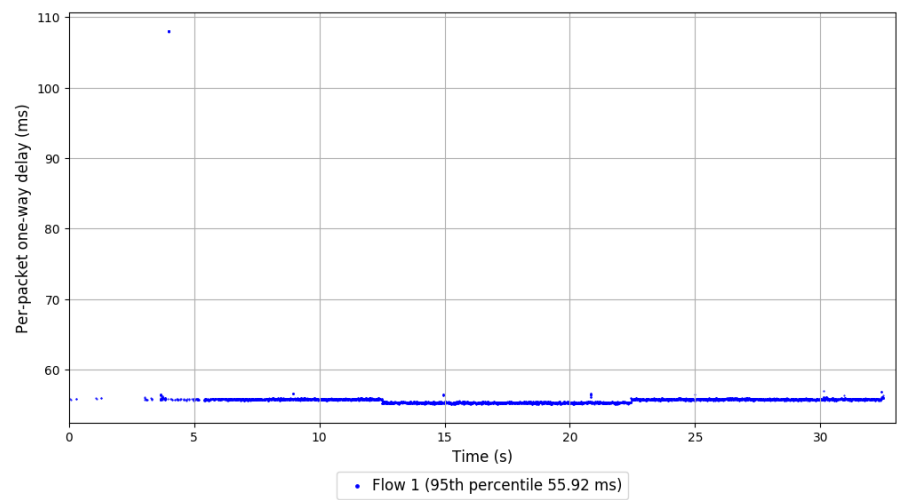
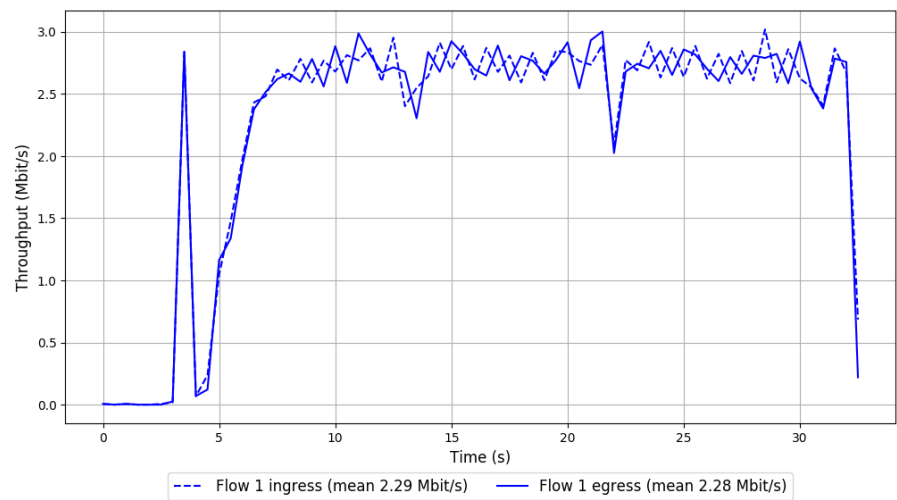
-- Flow 1:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 55.925 ms

Loss rate: 0.46%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-01-02 04:32:15

End at: 2018-01-02 04:32:45

Below is generated by plot.py at 2018-01-02 08:04:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 56.007 ms

Loss rate: 0.41%

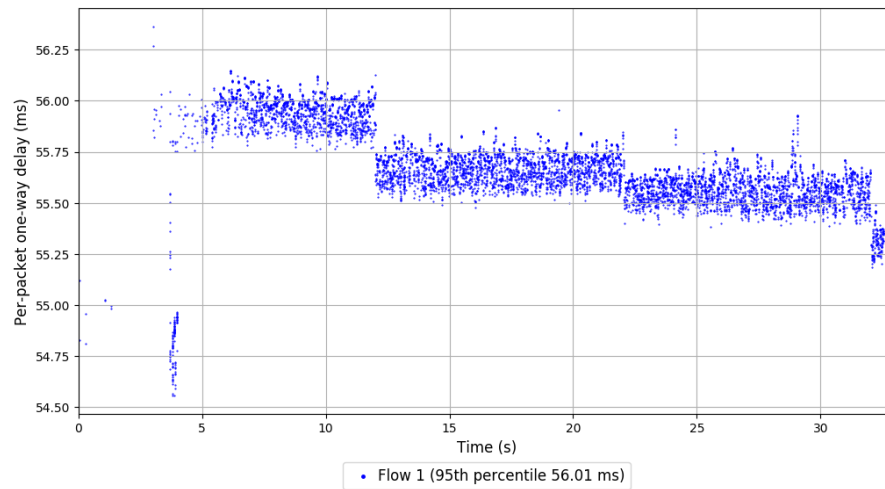
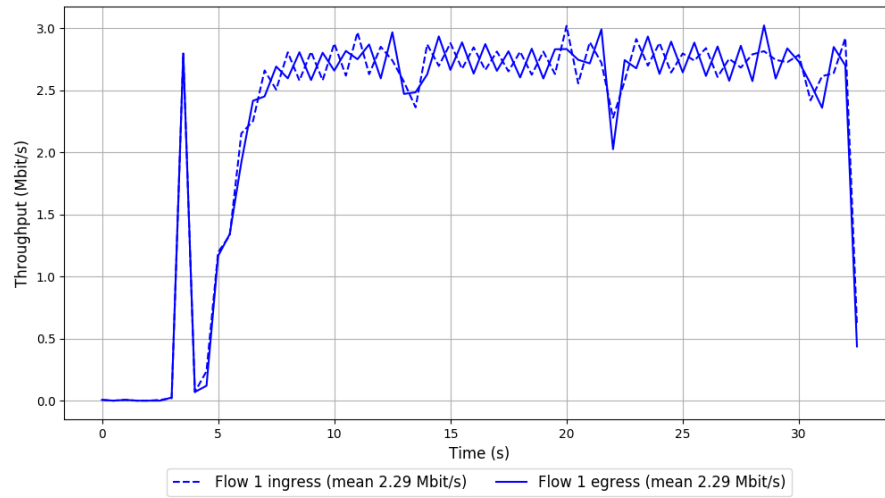
-- Flow 1:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 56.007 ms

Loss rate: 0.41%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-01-02 04:43:59

End at: 2018-01-02 04:44:29

Below is generated by plot.py at 2018-01-02 08:04:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 54.905 ms

Loss rate: 0.60%

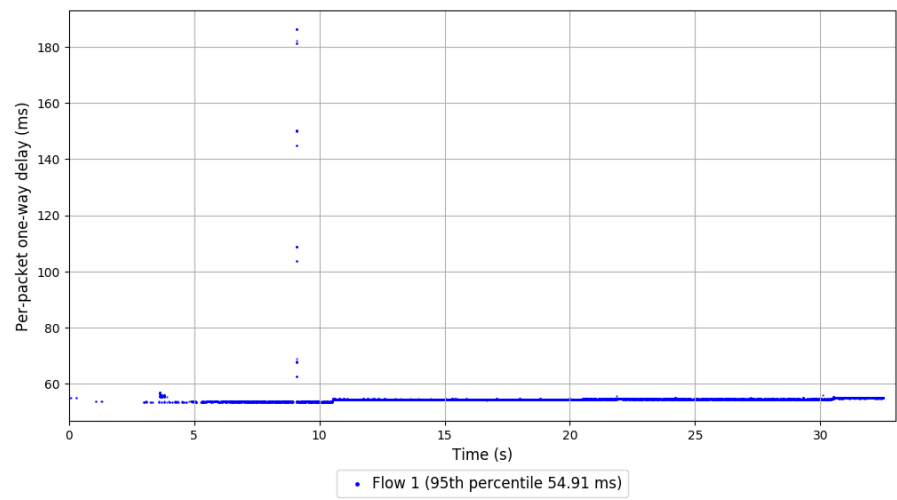
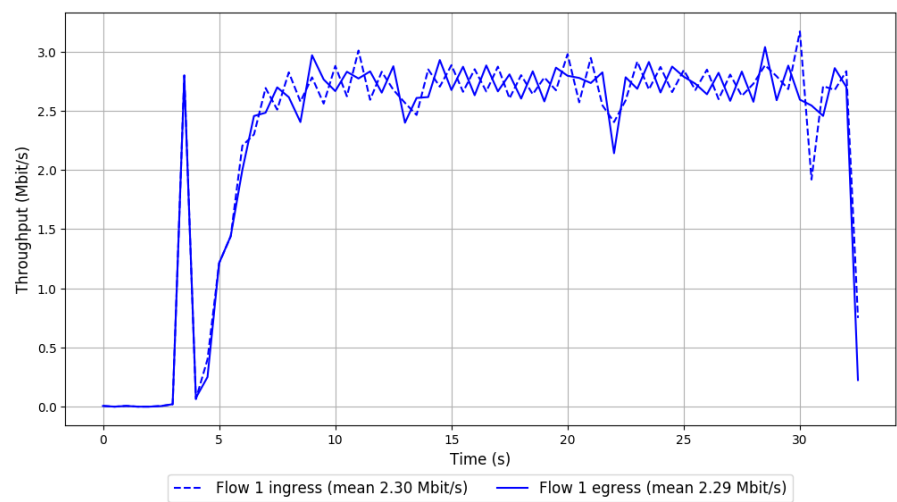
-- Flow 1:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 54.905 ms

Loss rate: 0.60%

Run 6: Report of WebRTC media — Data Link

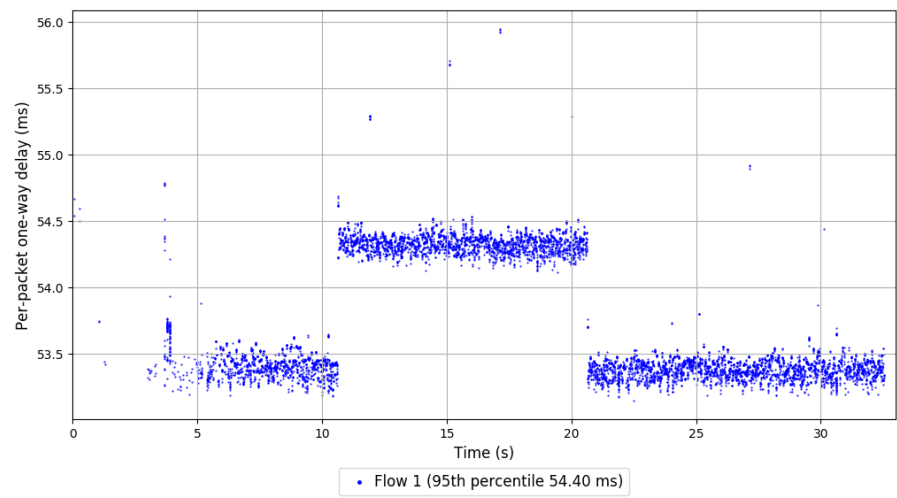
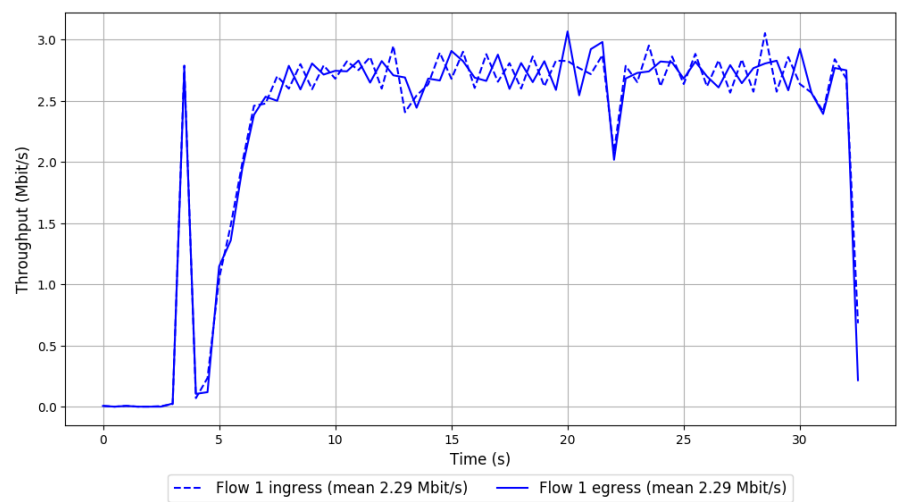


```
Run 7: Statistics of WebRTC media

Start at: 2018-01-02 04:55:39
End at: 2018-01-02 04:56:09

# Below is generated by plot.py at 2018-01-02 08:04:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.29 Mbit/s
95th percentile per-packet one-way delay: 54.401 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 2.29 Mbit/s
95th percentile per-packet one-way delay: 54.401 ms
Loss rate: 0.46%
```

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-01-02 05:07:25

End at: 2018-01-02 05:07:55

Below is generated by plot.py at 2018-01-02 08:04:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.27 Mbit/s

95th percentile per-packet one-way delay: 53.582 ms

Loss rate: 0.47%

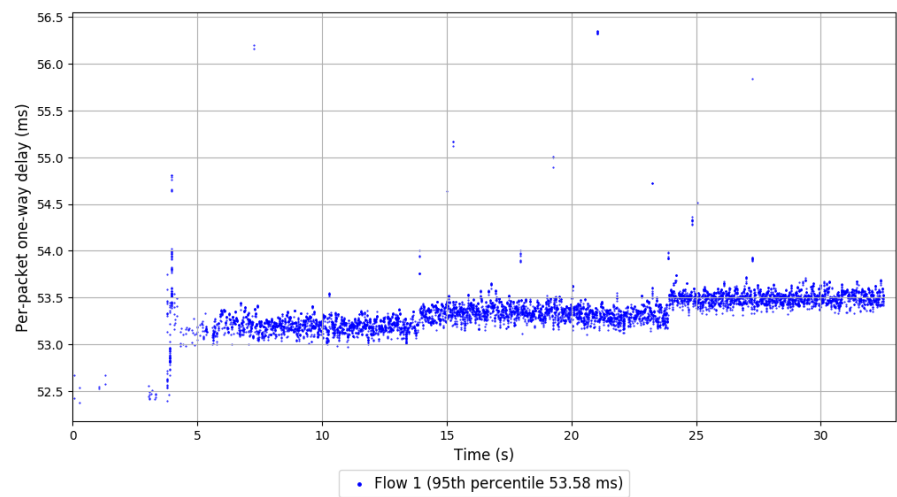
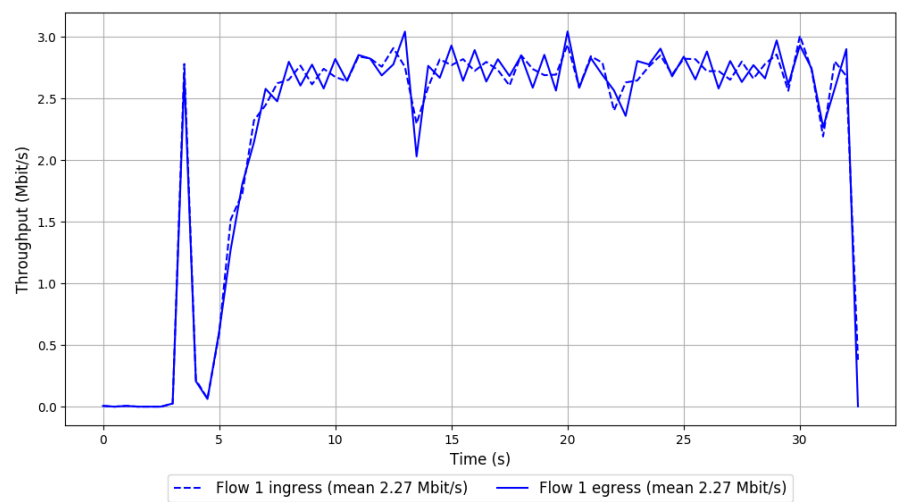
-- Flow 1:

Average throughput: 2.27 Mbit/s

95th percentile per-packet one-way delay: 53.582 ms

Loss rate: 0.47%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-01-02 05:18:49

End at: 2018-01-02 05:19:19

Below is generated by plot.py at 2018-01-02 08:04:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.30 Mbit/s

95th percentile per-packet one-way delay: 52.701 ms

Loss rate: 0.46%

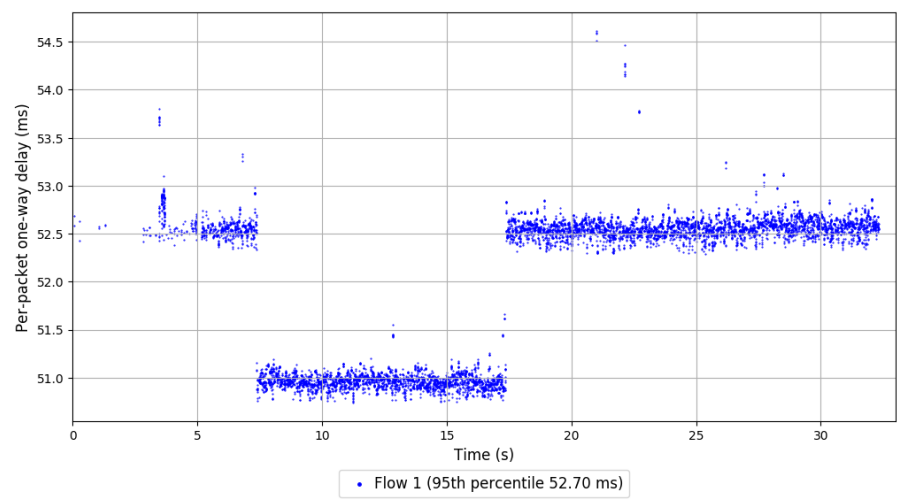
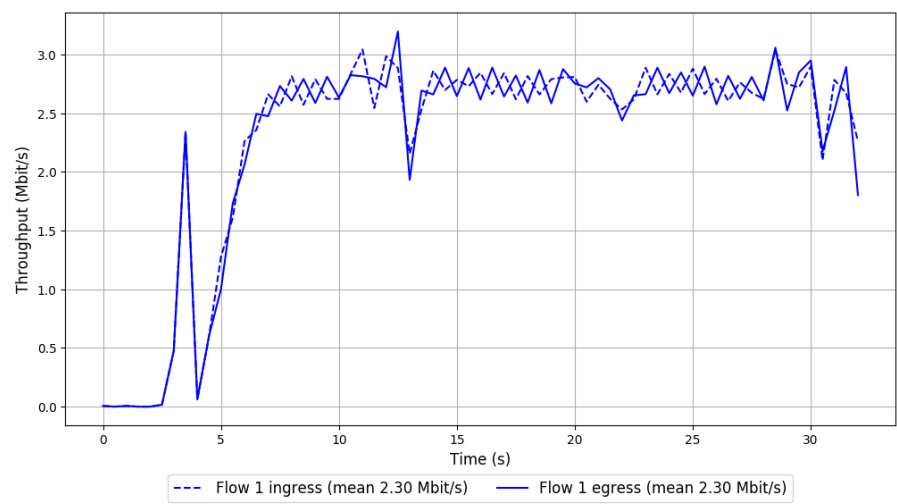
-- Flow 1:

Average throughput: 2.30 Mbit/s

95th percentile per-packet one-way delay: 52.701 ms

Loss rate: 0.46%

Run 9: Report of WebRTC media — Data Link

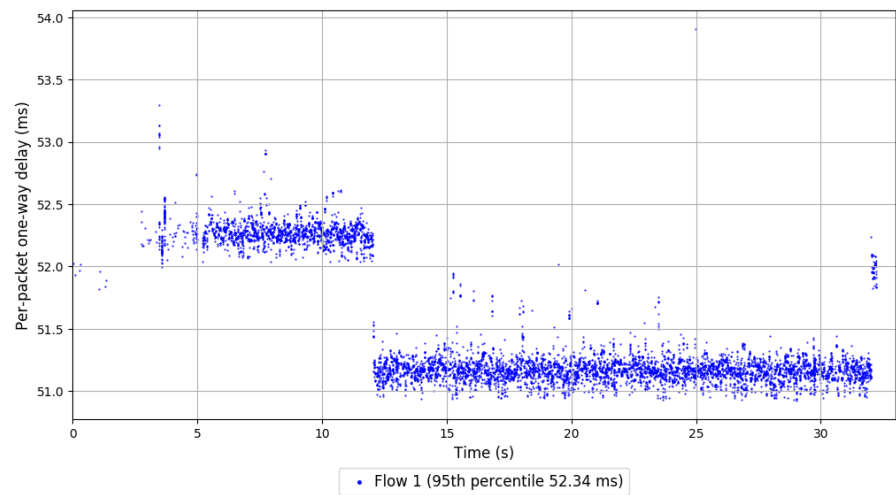
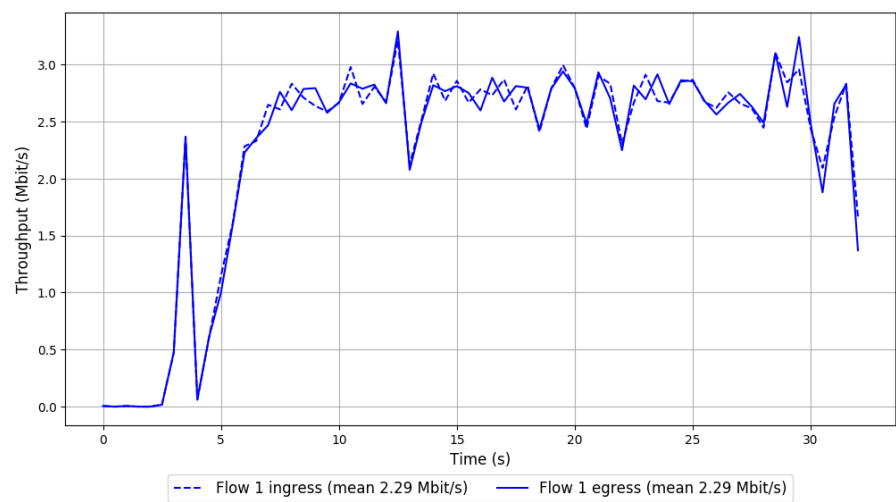


```
Run 10: Statistics of WebRTC media

Start at: 2018-01-02 05:30:05
End at: 2018-01-02 05:30:35

# Below is generated by plot.py at 2018-01-02 08:04:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.29 Mbit/s
95th percentile per-packet one-way delay: 52.337 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 2.29 Mbit/s
95th percentile per-packet one-way delay: 52.337 ms
Loss rate: 0.35%
```

Run 10: Report of WebRTC media — Data Link

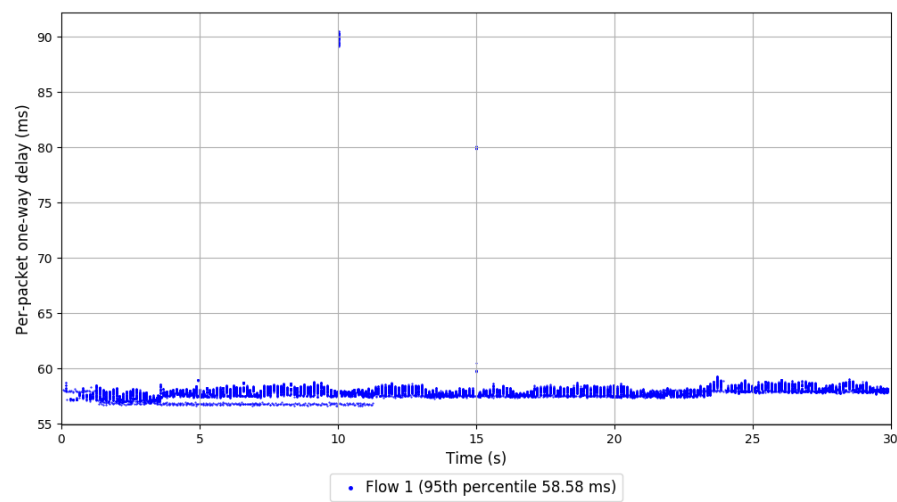
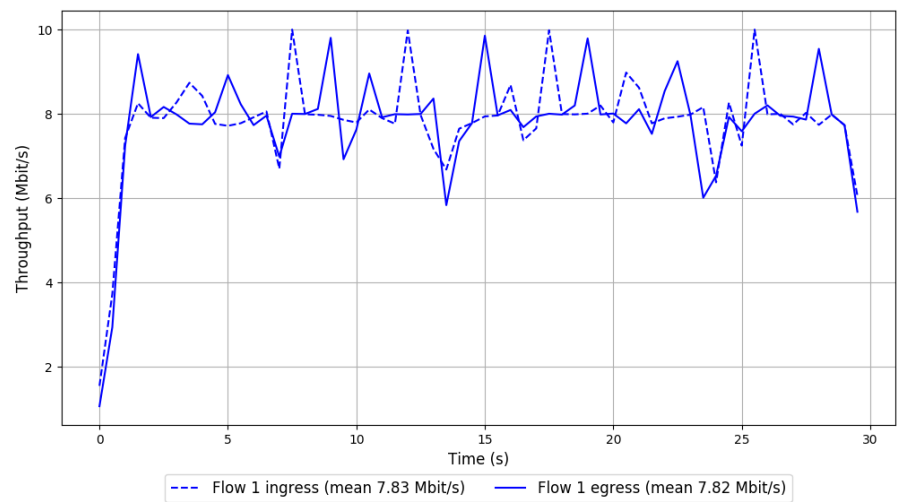


```
Run 1: Statistics of Sprout

Start at: 2018-01-02 03:49:33
End at: 2018-01-02 03:50:03

# Below is generated by plot.py at 2018-01-02 08:04:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.82 Mbit/s
95th percentile per-packet one-way delay: 58.577 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 7.82 Mbit/s
95th percentile per-packet one-way delay: 58.577 ms
Loss rate: 0.51%
```

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-01-02 04:01:20

End at: 2018-01-02 04:01:50

Below is generated by plot.py at 2018-01-02 08:04:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.82 Mbit/s

95th percentile per-packet one-way delay: 57.938 ms

Loss rate: 1.41%

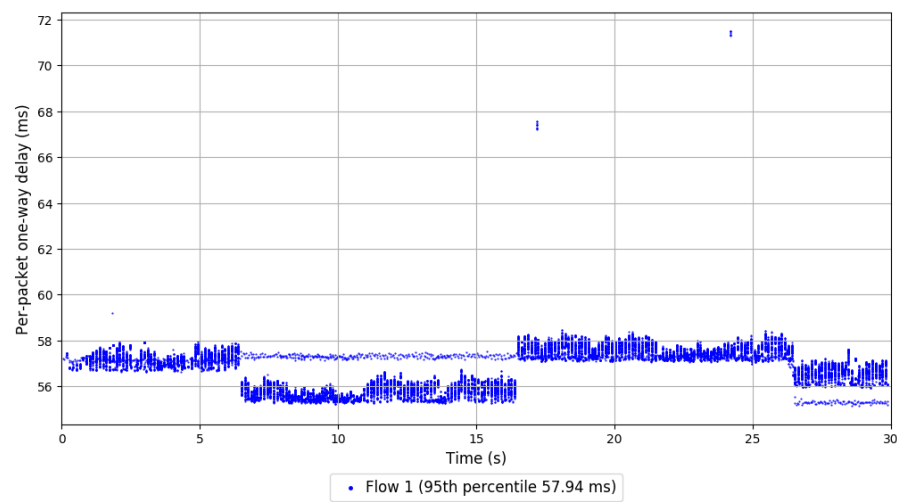
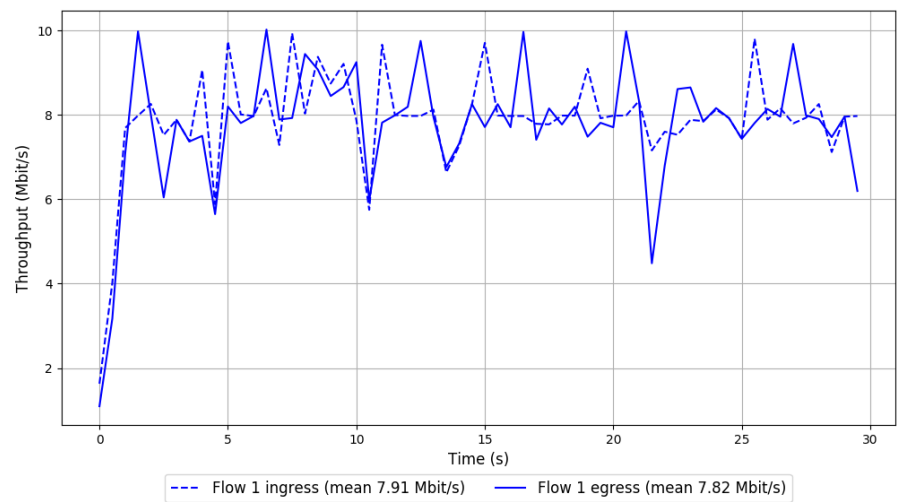
-- Flow 1:

Average throughput: 7.82 Mbit/s

95th percentile per-packet one-way delay: 57.938 ms

Loss rate: 1.41%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-01-02 04:13:06

End at: 2018-01-02 04:13:36

Below is generated by plot.py at 2018-01-02 08:04:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.66 Mbit/s

95th percentile per-packet one-way delay: 57.435 ms

Loss rate: 1.68%

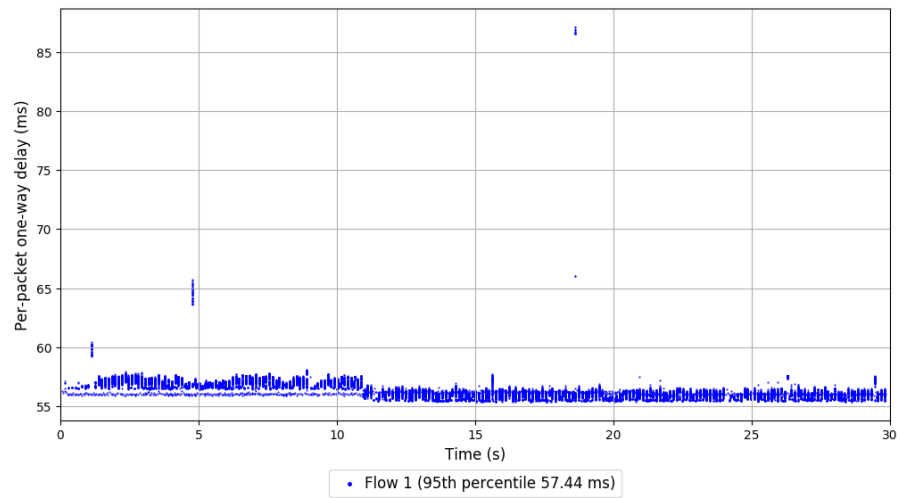
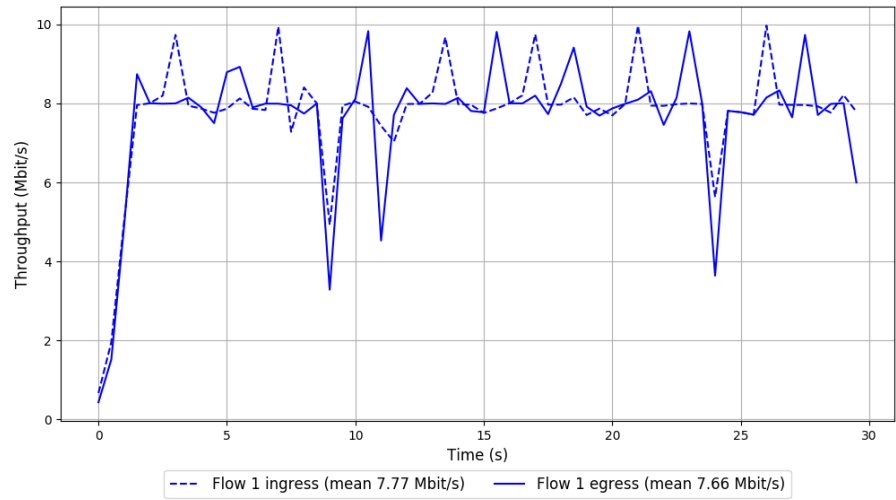
-- Flow 1:

Average throughput: 7.66 Mbit/s

95th percentile per-packet one-way delay: 57.435 ms

Loss rate: 1.68%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-01-02 04:24:50

End at: 2018-01-02 04:25:20

Below is generated by plot.py at 2018-01-02 08:04:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.77 Mbit/s

95th percentile per-packet one-way delay: 56.849 ms

Loss rate: 1.22%

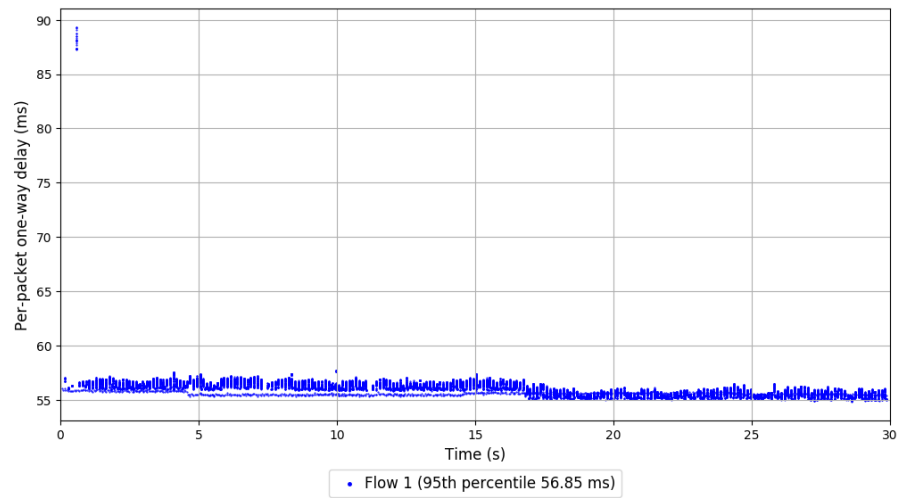
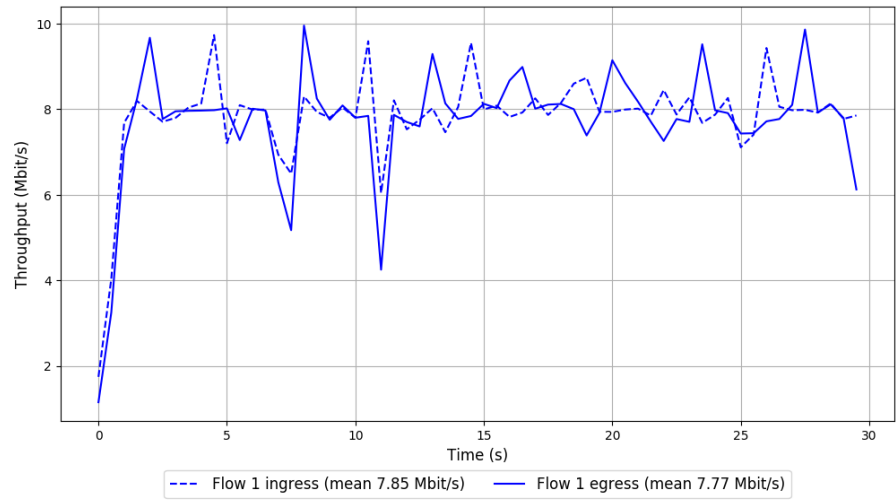
-- Flow 1:

Average throughput: 7.77 Mbit/s

95th percentile per-packet one-way delay: 56.849 ms

Loss rate: 1.22%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-01-02 04:36:39

End at: 2018-01-02 04:37:09

Below is generated by plot.py at 2018-01-02 08:04:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.56 Mbit/s

95th percentile per-packet one-way delay: 56.423 ms

Loss rate: 2.25%

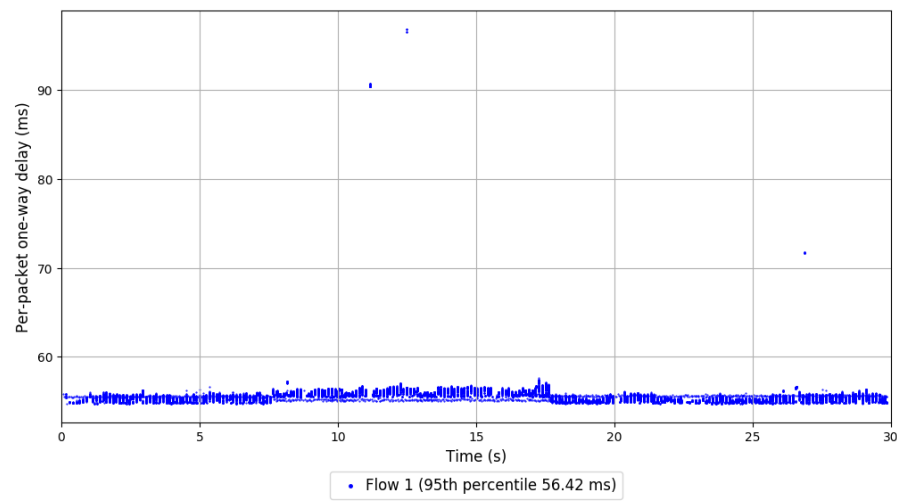
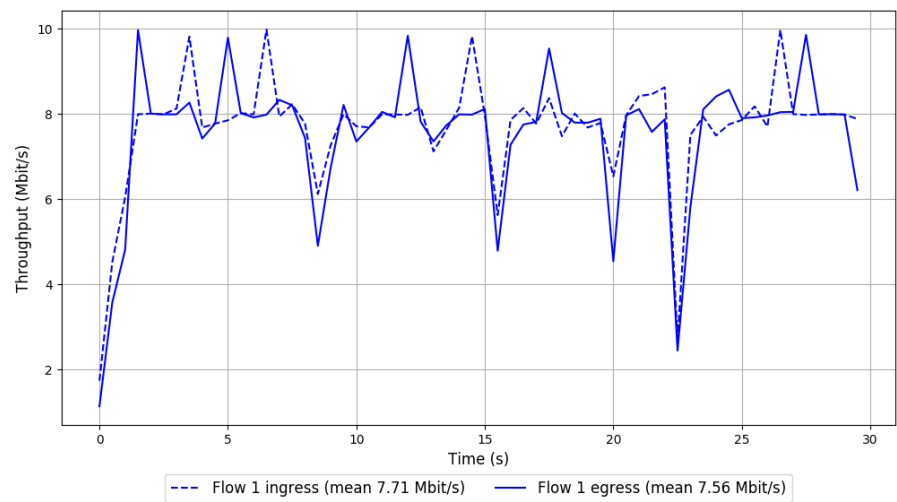
-- Flow 1:

Average throughput: 7.56 Mbit/s

95th percentile per-packet one-way delay: 56.423 ms

Loss rate: 2.25%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-01-02 04:48:20

End at: 2018-01-02 04:48:50

Below is generated by plot.py at 2018-01-02 08:04:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.40 Mbit/s

95th percentile per-packet one-way delay: 55.294 ms

Loss rate: 2.82%

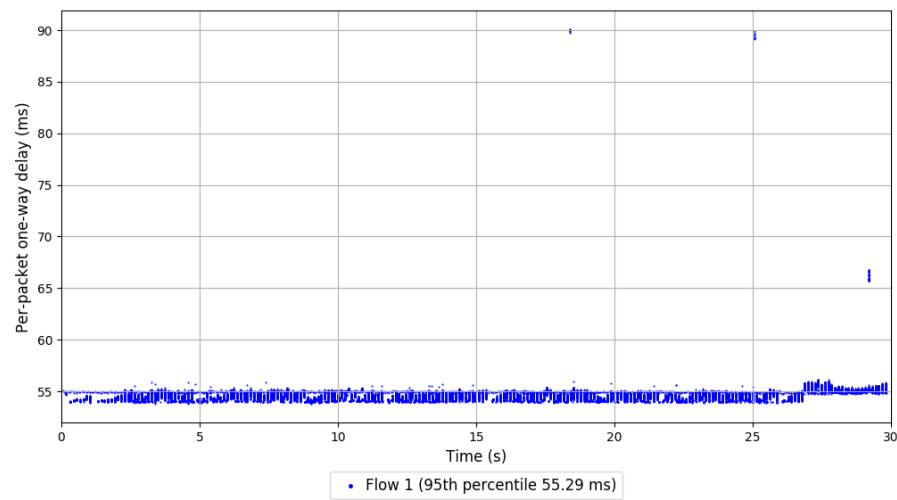
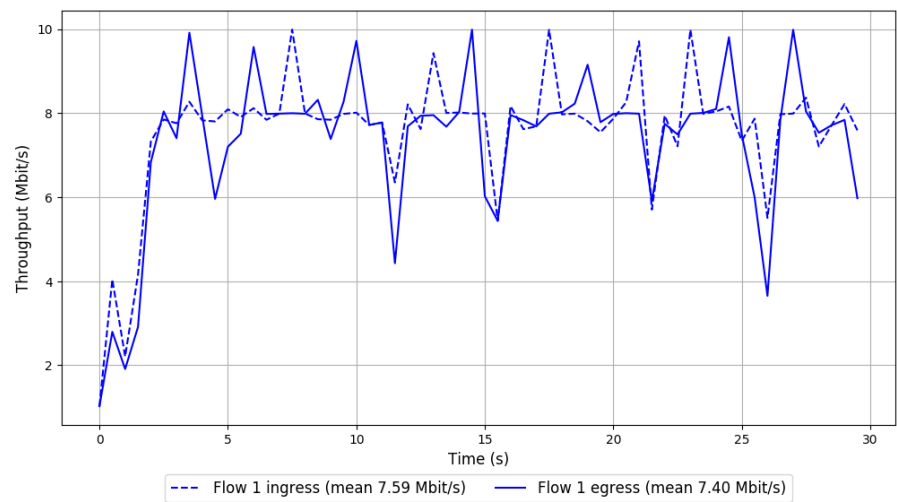
-- Flow 1:

Average throughput: 7.40 Mbit/s

95th percentile per-packet one-way delay: 55.294 ms

Loss rate: 2.82%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-01-02 05:00:02

End at: 2018-01-02 05:00:32

Below is generated by plot.py at 2018-01-02 08:04:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.89 Mbit/s

95th percentile per-packet one-way delay: 54.894 ms

Loss rate: 1.05%

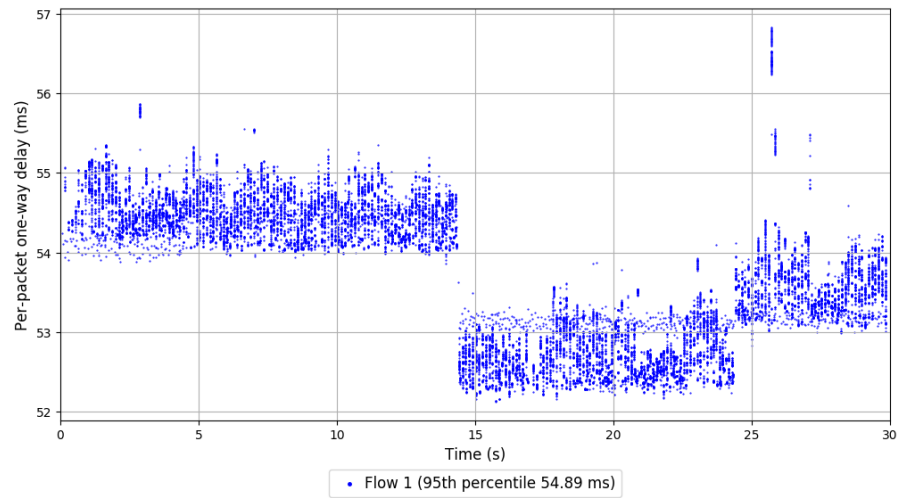
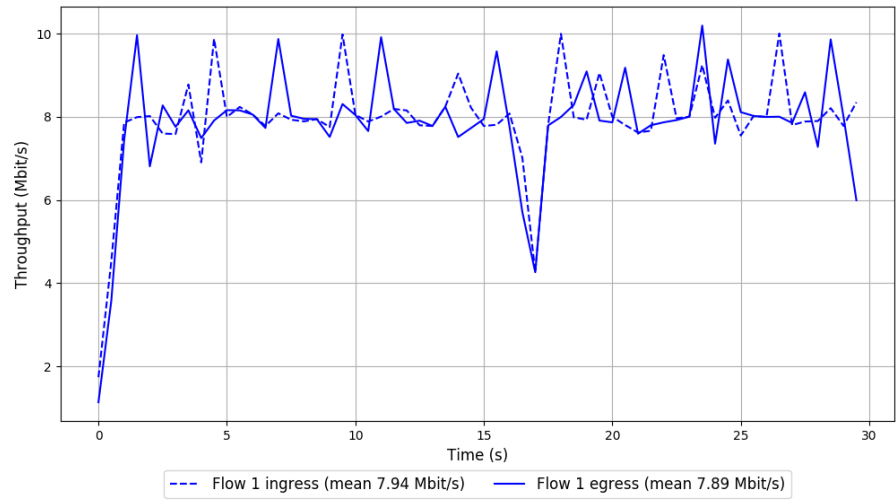
-- Flow 1:

Average throughput: 7.89 Mbit/s

95th percentile per-packet one-way delay: 54.894 ms

Loss rate: 1.05%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-01-02 05:11:47

End at: 2018-01-02 05:12:17

Below is generated by plot.py at 2018-01-02 08:04:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.82 Mbit/s

95th percentile per-packet one-way delay: 54.006 ms

Loss rate: 1.23%

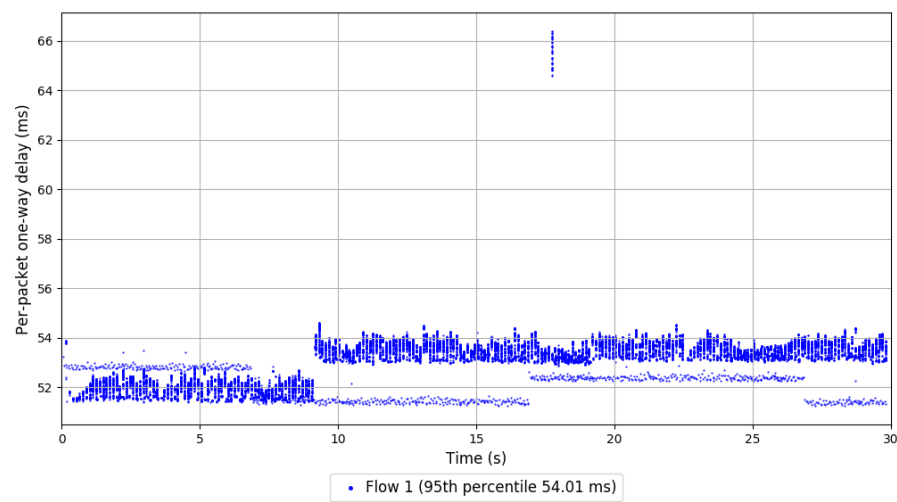
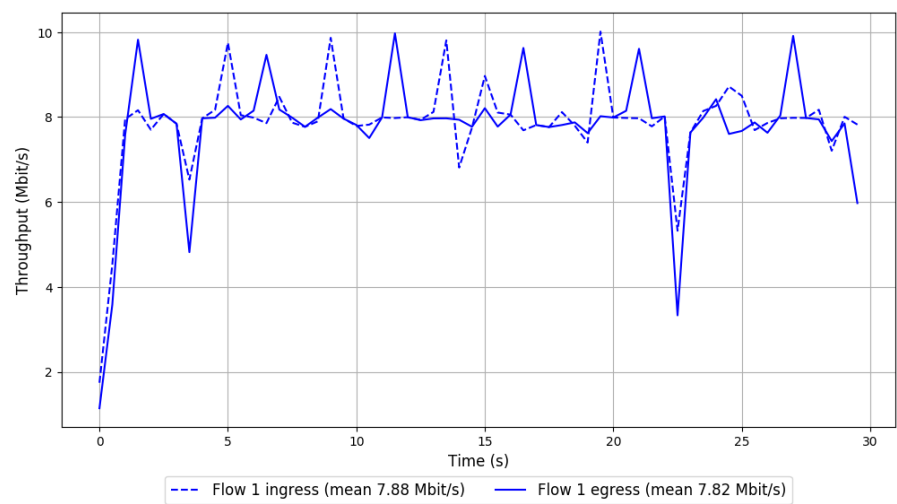
-- Flow 1:

Average throughput: 7.82 Mbit/s

95th percentile per-packet one-way delay: 54.006 ms

Loss rate: 1.23%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-01-02 05:23:10

End at: 2018-01-02 05:23:40

Below is generated by plot.py at 2018-01-02 08:04:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.57 Mbit/s

95th percentile per-packet one-way delay: 53.450 ms

Loss rate: 2.00%

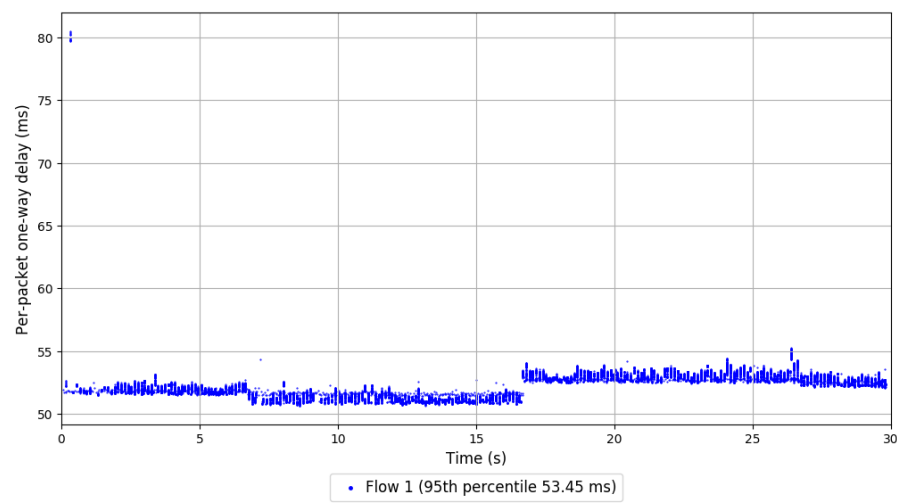
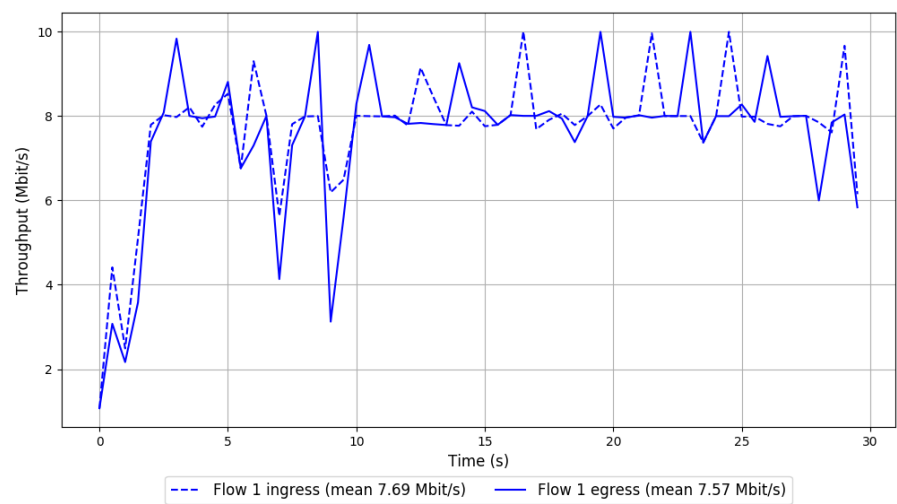
-- Flow 1:

Average throughput: 7.57 Mbit/s

95th percentile per-packet one-way delay: 53.450 ms

Loss rate: 2.00%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-01-02 05:34:27

End at: 2018-01-02 05:34:57

Below is generated by plot.py at 2018-01-02 08:04:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.77 Mbit/s

95th percentile per-packet one-way delay: 51.930 ms

Loss rate: 1.68%

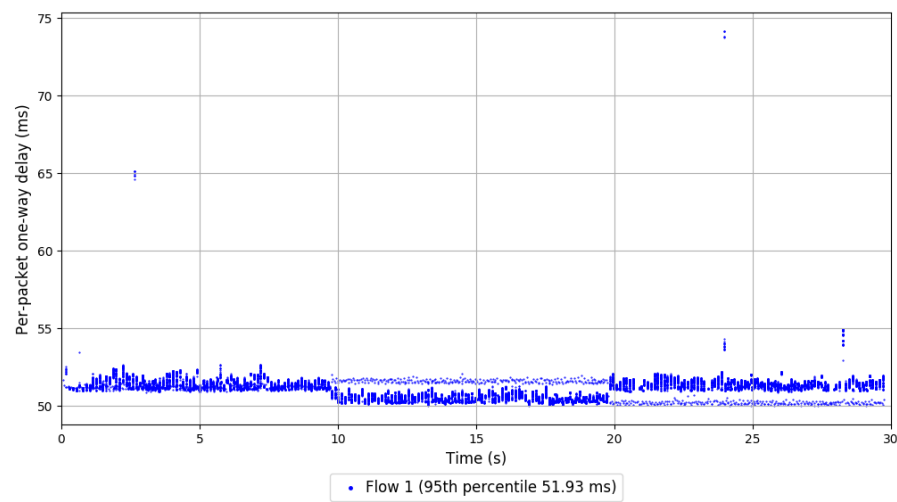
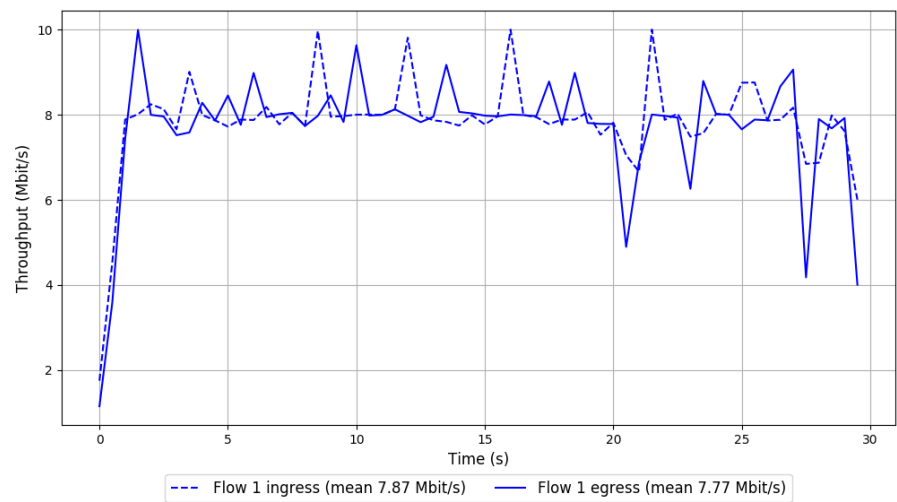
-- Flow 1:

Average throughput: 7.77 Mbit/s

95th percentile per-packet one-way delay: 51.930 ms

Loss rate: 1.68%

Run 10: Report of Sprout — Data Link

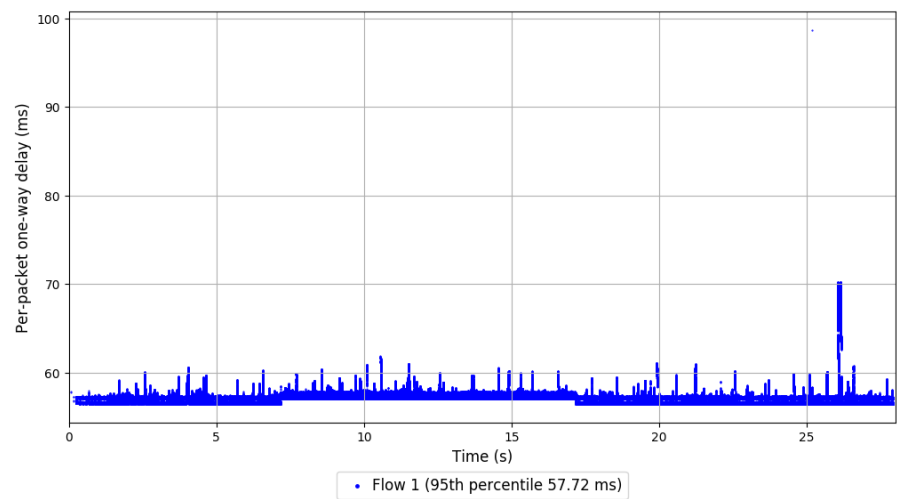
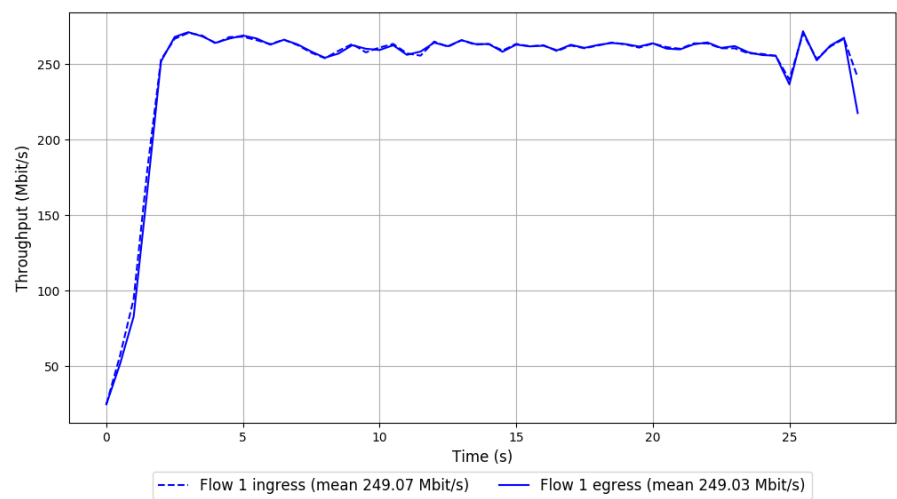


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-01-02 03:50:47
End at: 2018-01-02 03:51:18

# Below is generated by plot.py at 2018-01-02 08:04:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 249.03 Mbit/s
95th percentile per-packet one-way delay: 57.720 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 249.03 Mbit/s
95th percentile per-packet one-way delay: 57.720 ms
Loss rate: 0.38%
```

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

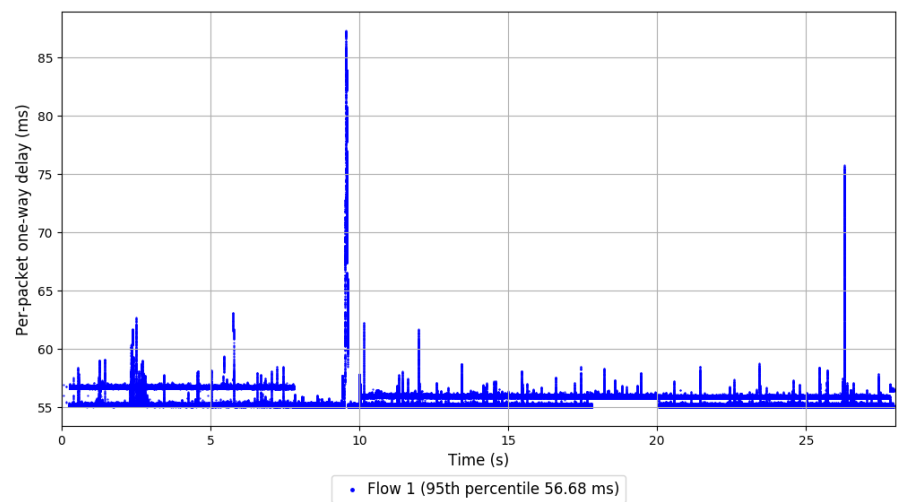
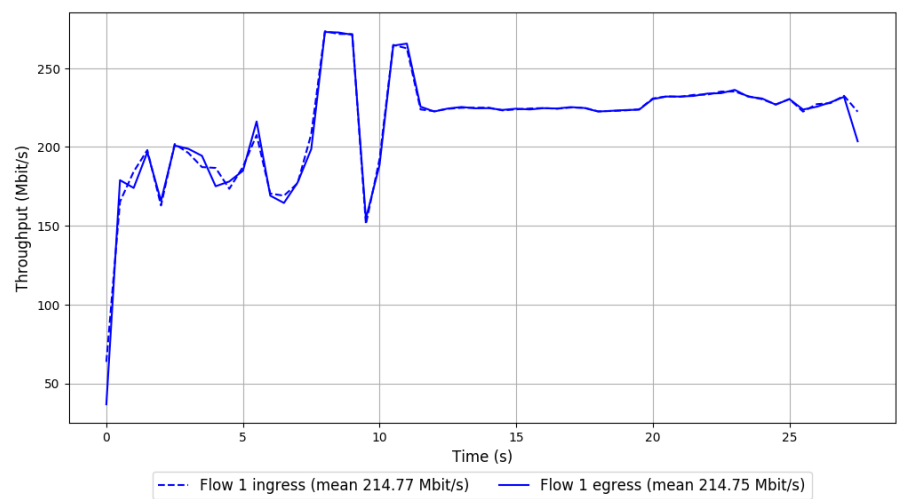


```
Run 2: Statistics of TaoVA-100x

Start at: 2018-01-02 04:02:35
End at: 2018-01-02 04:03:05

# Below is generated by plot.py at 2018-01-02 08:04:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 214.75 Mbit/s
95th percentile per-packet one-way delay: 56.682 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 214.75 Mbit/s
95th percentile per-packet one-way delay: 56.682 ms
Loss rate: 0.37%
```

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-01-02 04:14:20

End at: 2018-01-02 04:14:50

Below is generated by plot.py at 2018-01-02 08:04:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 255.65 Mbit/s

95th percentile per-packet one-way delay: 56.270 ms

Loss rate: 0.31%

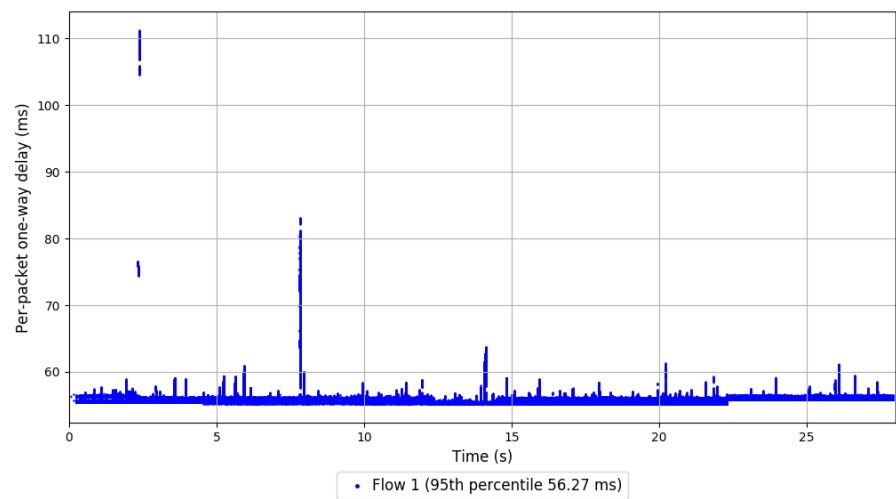
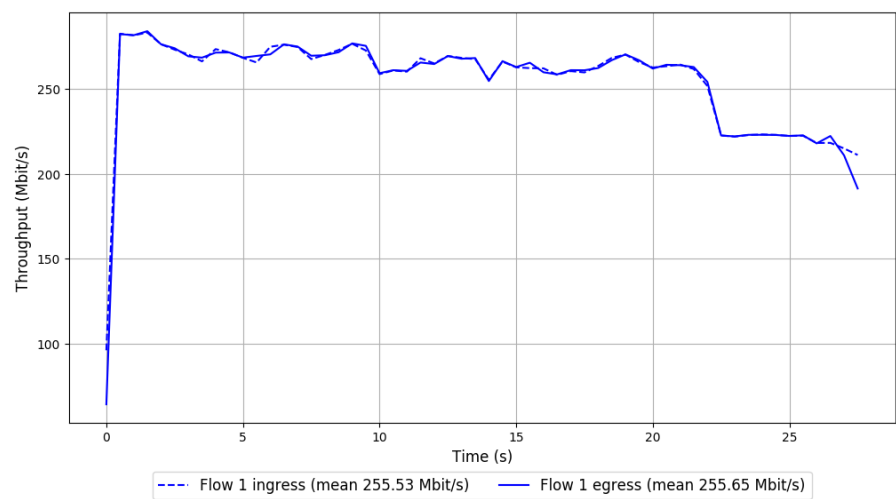
-- Flow 1:

Average throughput: 255.65 Mbit/s

95th percentile per-packet one-way delay: 56.270 ms

Loss rate: 0.31%

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

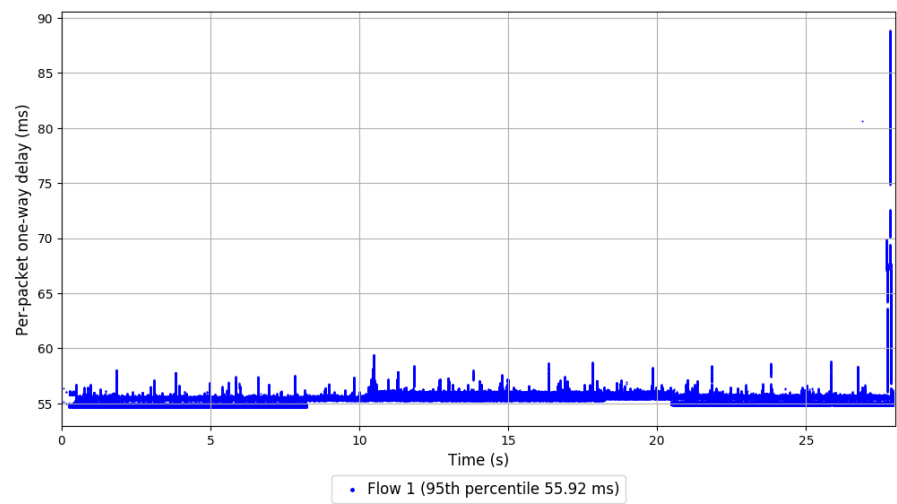
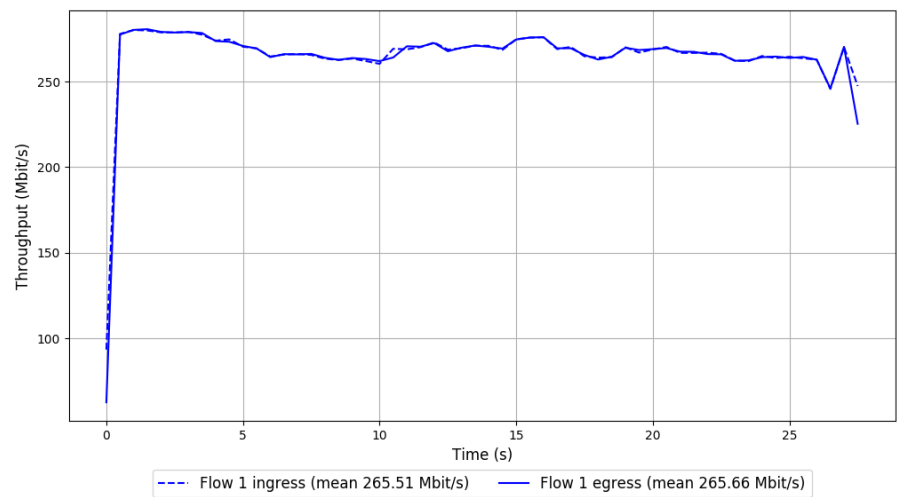


```
Run 4: Statistics of TaoVA-100x

Start at: 2018-01-02 04:26:04
End at: 2018-01-02 04:26:34

# Below is generated by plot.py at 2018-01-02 08:04:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 265.66 Mbit/s
95th percentile per-packet one-way delay: 55.924 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 265.66 Mbit/s
95th percentile per-packet one-way delay: 55.924 ms
Loss rate: 0.34%
```

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-01-02 04:37:53

End at: 2018-01-02 04:38:23

Below is generated by plot.py at 2018-01-02 08:04:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 249.62 Mbit/s

95th percentile per-packet one-way delay: 55.544 ms

Loss rate: 0.33%

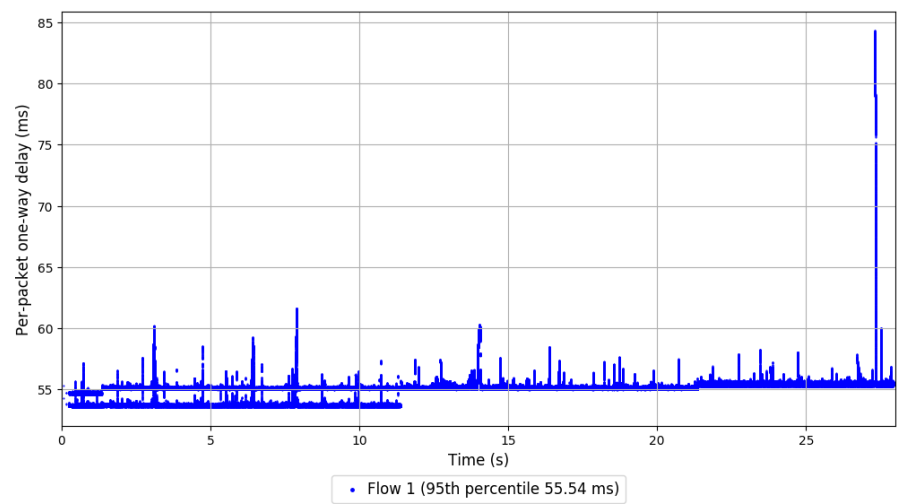
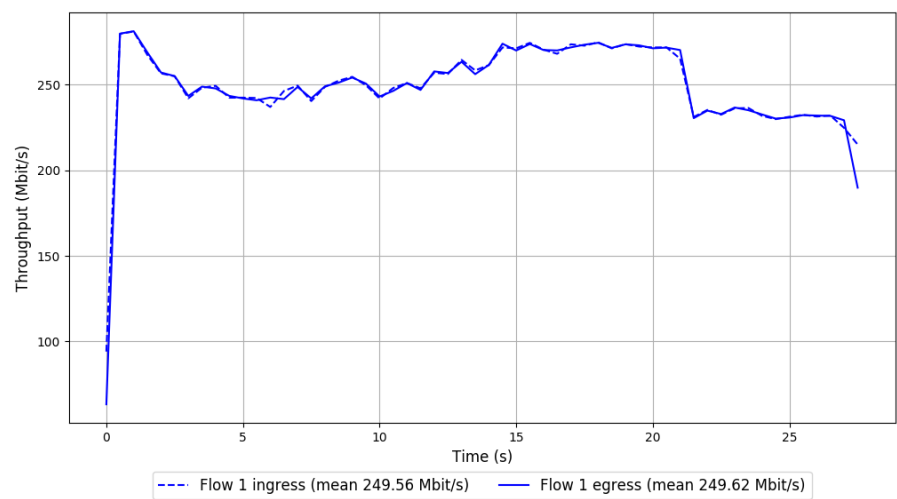
-- Flow 1:

Average throughput: 249.62 Mbit/s

95th percentile per-packet one-way delay: 55.544 ms

Loss rate: 0.33%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-01-02 04:49:34

End at: 2018-01-02 04:50:04

Below is generated by plot.py at 2018-01-02 08:05:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 263.24 Mbit/s

95th percentile per-packet one-way delay: 54.938 ms

Loss rate: 0.37%

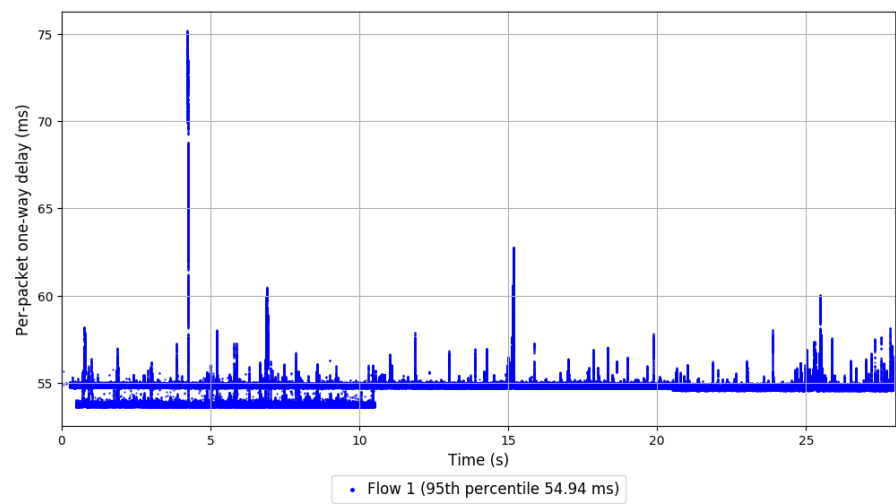
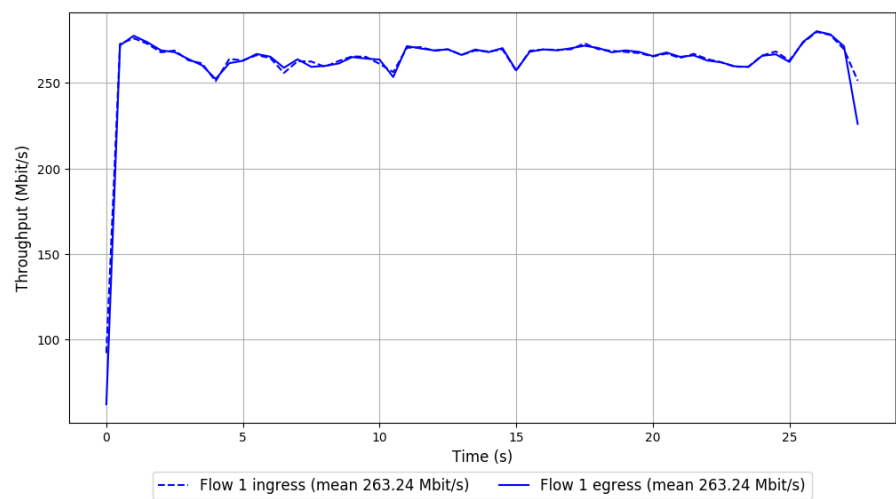
-- Flow 1:

Average throughput: 263.24 Mbit/s

95th percentile per-packet one-way delay: 54.938 ms

Loss rate: 0.37%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-01-02 05:01:17

End at: 2018-01-02 05:01:47

Below is generated by plot.py at 2018-01-02 08:11:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 261.45 Mbit/s

95th percentile per-packet one-way delay: 54.304 ms

Loss rate: 0.37%

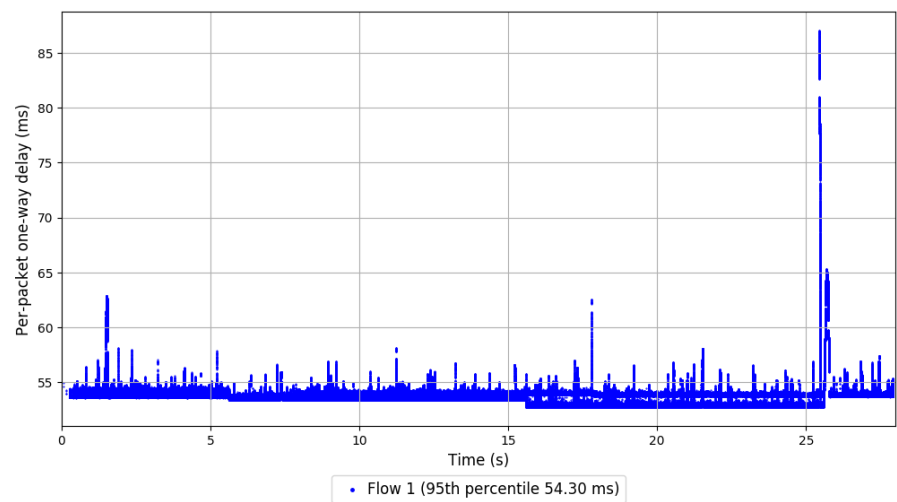
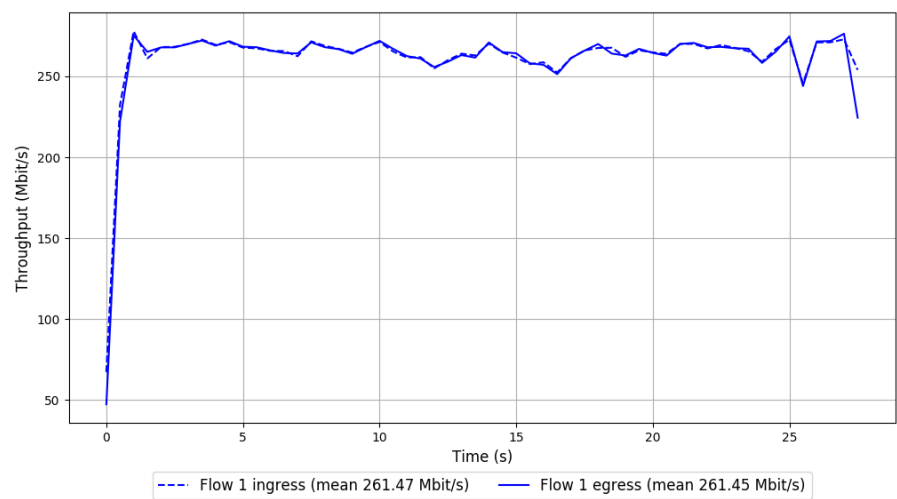
-- Flow 1:

Average throughput: 261.45 Mbit/s

95th percentile per-packet one-way delay: 54.304 ms

Loss rate: 0.37%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-01-02 05:13:02

End at: 2018-01-02 05:13:32

Below is generated by plot.py at 2018-01-02 08:11:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 219.17 Mbit/s

95th percentile per-packet one-way delay: 53.180 ms

Loss rate: 0.32%

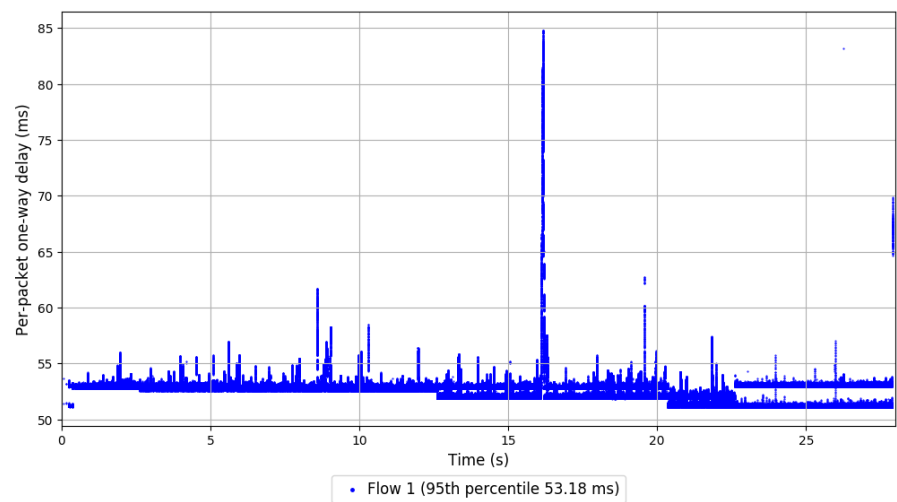
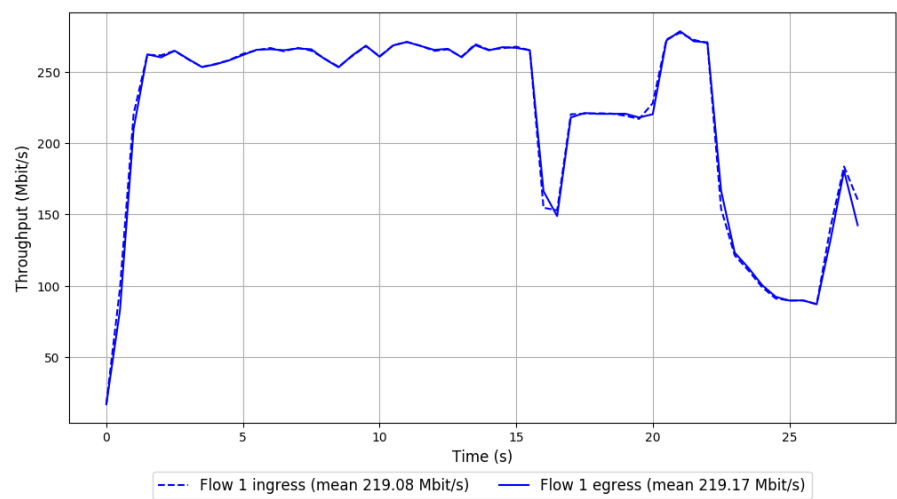
-- Flow 1:

Average throughput: 219.17 Mbit/s

95th percentile per-packet one-way delay: 53.180 ms

Loss rate: 0.32%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-01-02 05:24:25

End at: 2018-01-02 05:24:55

Below is generated by plot.py at 2018-01-02 08:11:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 203.38 Mbit/s

95th percentile per-packet one-way delay: 52.464 ms

Loss rate: 0.39%

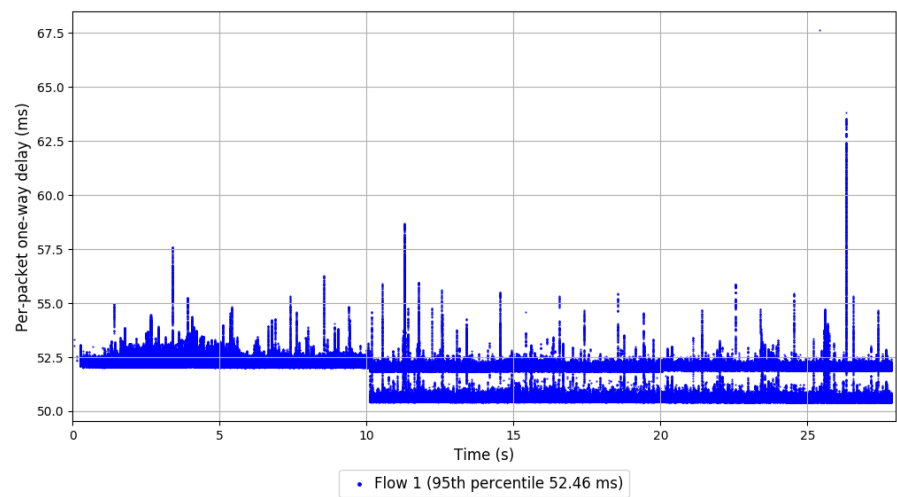
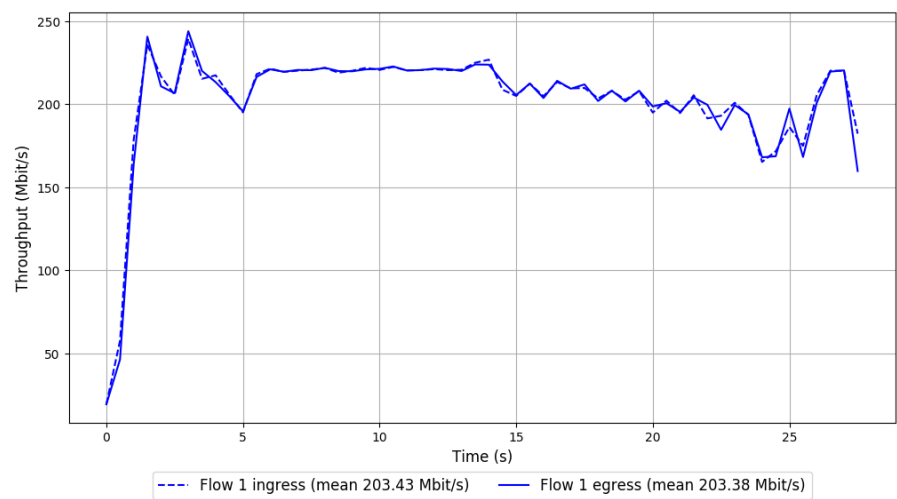
-- Flow 1:

Average throughput: 203.38 Mbit/s

95th percentile per-packet one-way delay: 52.464 ms

Loss rate: 0.39%

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

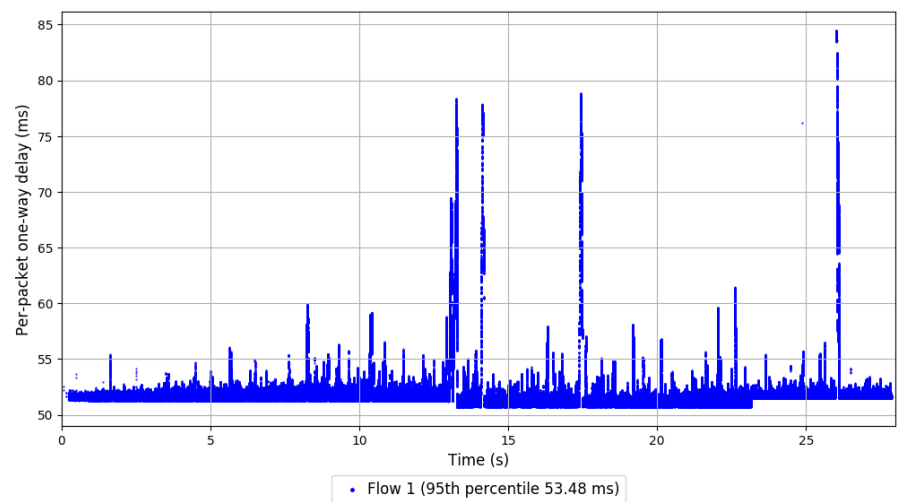
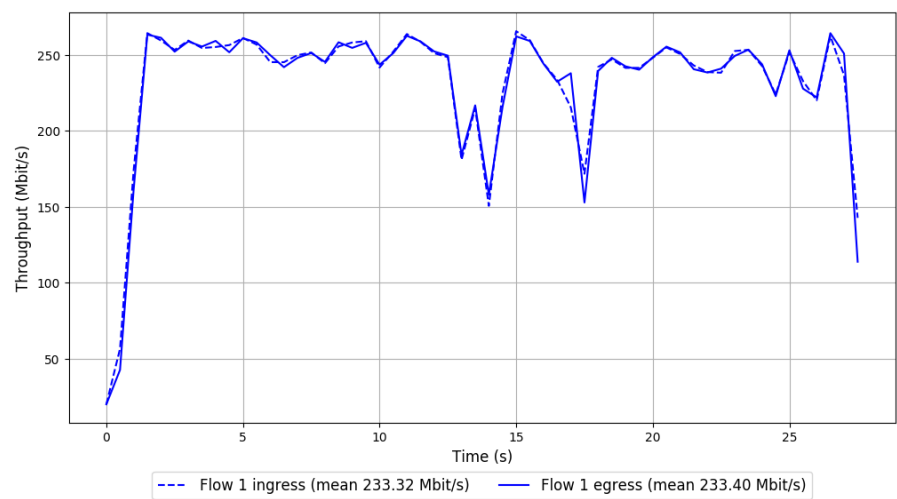


```
Run 10: Statistics of TaoVA-100x

Start at: 2018-01-02 05:35:42
End at: 2018-01-02 05:36:12

# Below is generated by plot.py at 2018-01-02 08:11:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 233.40 Mbit/s
95th percentile per-packet one-way delay: 53.478 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 233.40 Mbit/s
95th percentile per-packet one-way delay: 53.478 ms
Loss rate: 0.32%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2018-01-02 03:48:04

End at: 2018-01-02 03:48:34

Below is generated by plot.py at 2018-01-02 08:11:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 46.22 Mbit/s

95th percentile per-packet one-way delay: 58.858 ms

Loss rate: 0.38%

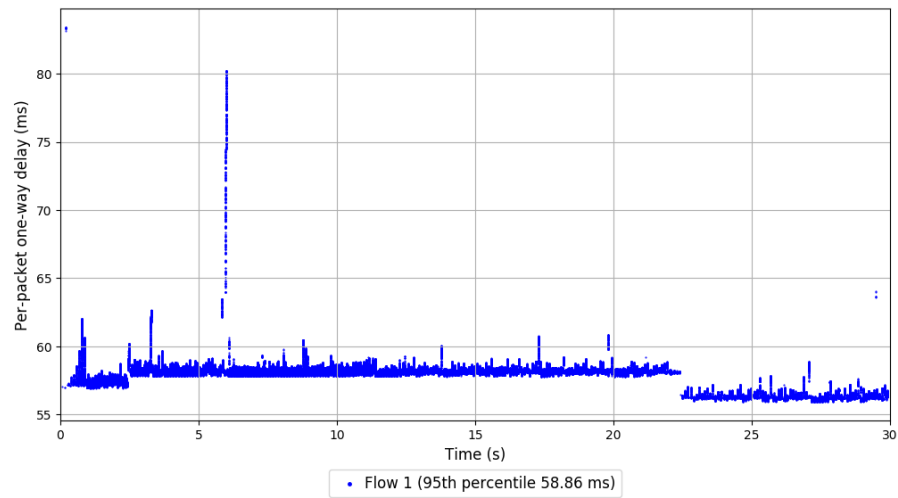
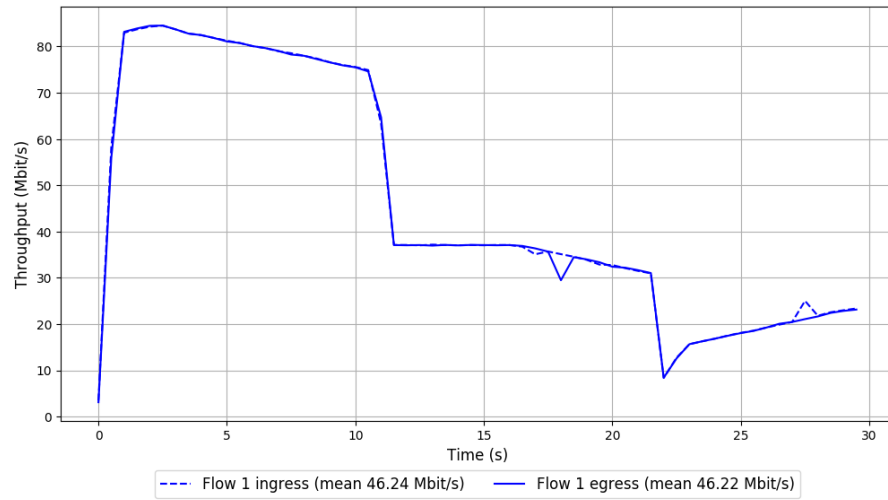
-- Flow 1:

Average throughput: 46.22 Mbit/s

95th percentile per-packet one-way delay: 58.858 ms

Loss rate: 0.38%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-01-02 03:59:51

End at: 2018-01-02 04:00:21

Below is generated by plot.py at 2018-01-02 08:11:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 55.42 Mbit/s

95th percentile per-packet one-way delay: 58.332 ms

Loss rate: 0.14%

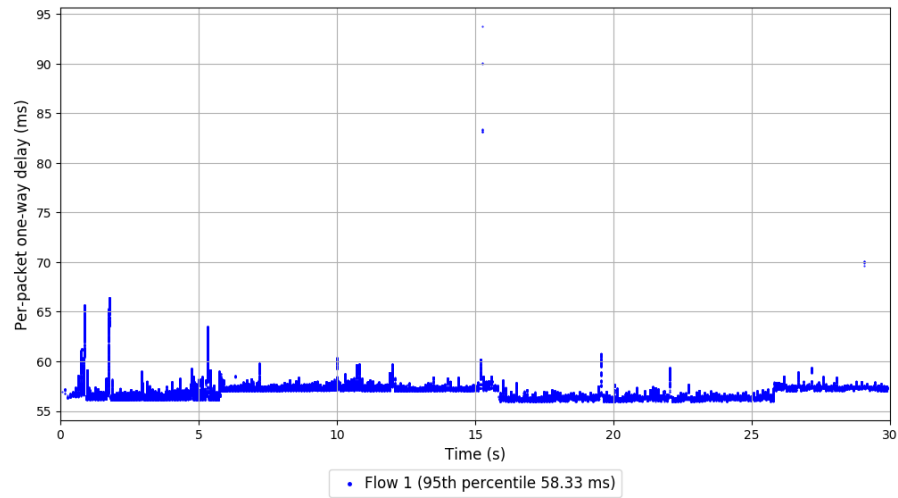
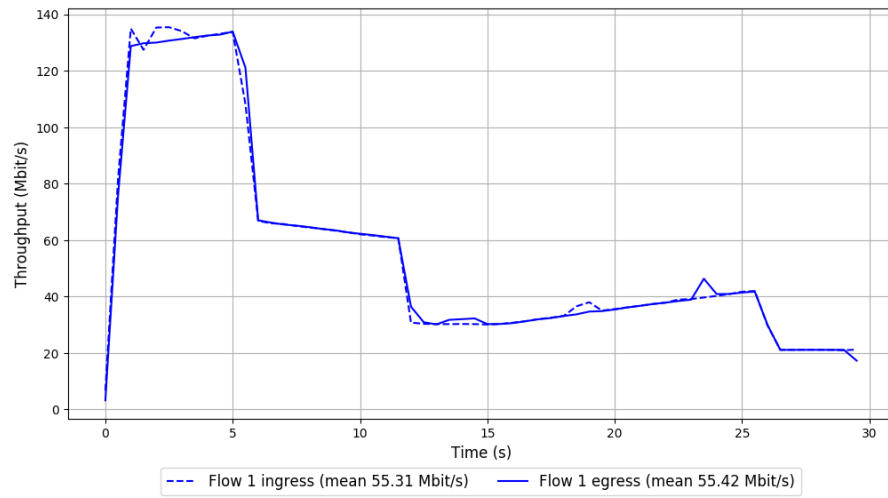
-- Flow 1:

Average throughput: 55.42 Mbit/s

95th percentile per-packet one-way delay: 58.332 ms

Loss rate: 0.14%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-01-02 04:11:38

End at: 2018-01-02 04:12:08

Below is generated by plot.py at 2018-01-02 08:11:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 24.03 Mbit/s

95th percentile per-packet one-way delay: 57.351 ms

Loss rate: 1.17%

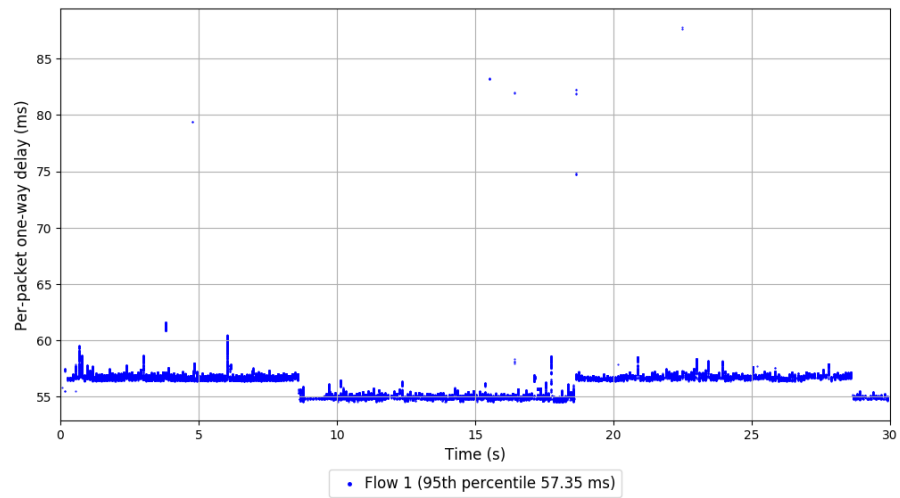
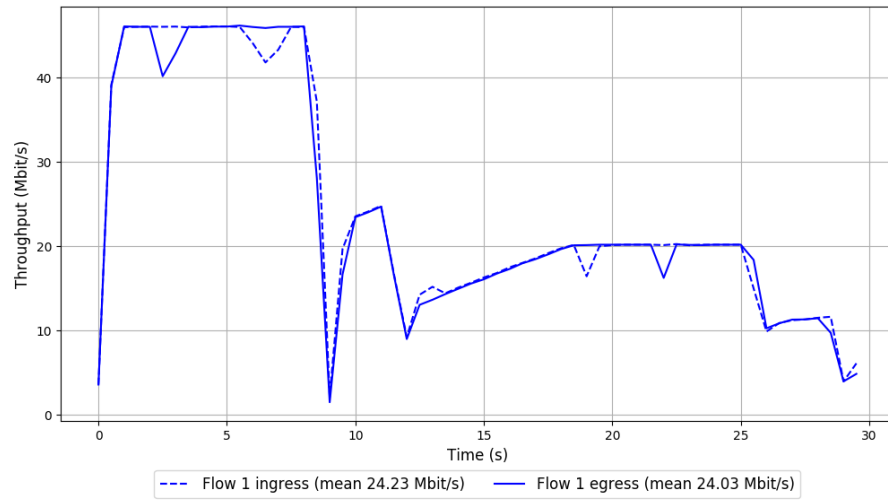
-- Flow 1:

Average throughput: 24.03 Mbit/s

95th percentile per-packet one-way delay: 57.351 ms

Loss rate: 1.17%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-01-02 04:23:22

End at: 2018-01-02 04:23:52

Below is generated by plot.py at 2018-01-02 08:11:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 28.96 Mbit/s

95th percentile per-packet one-way delay: 63.484 ms

Loss rate: 2.12%

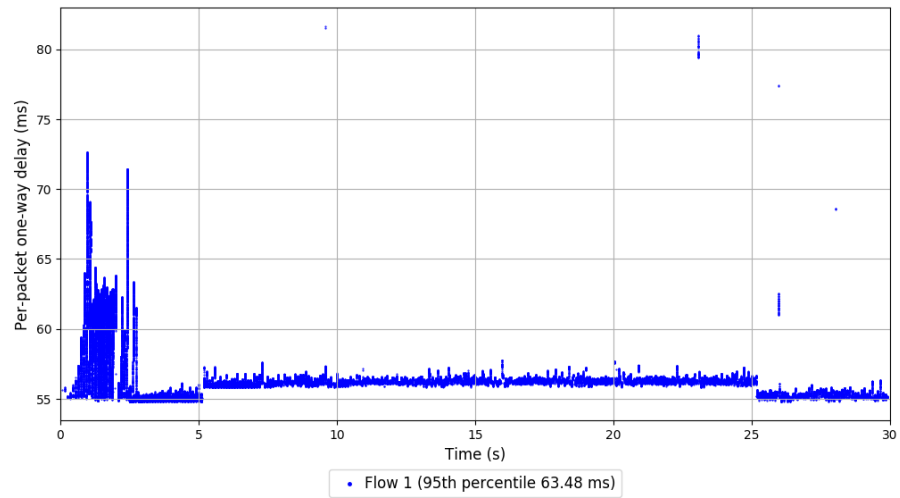
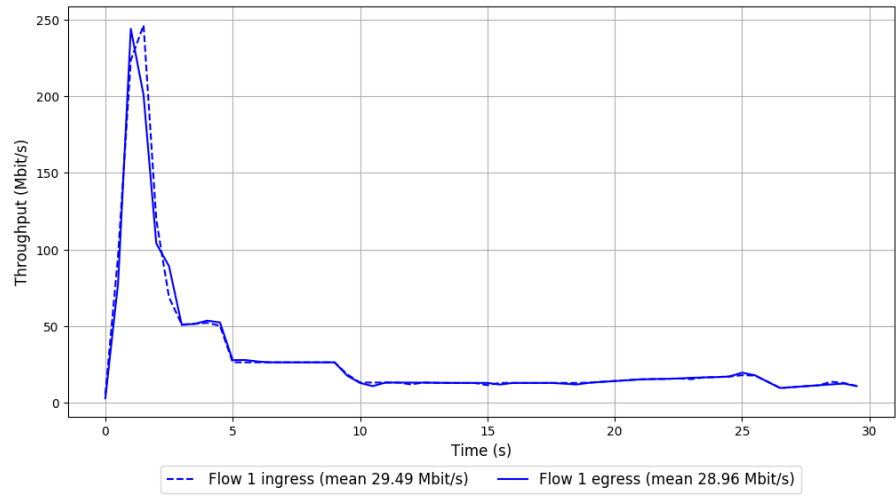
-- Flow 1:

Average throughput: 28.96 Mbit/s

95th percentile per-packet one-way delay: 63.484 ms

Loss rate: 2.12%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-01-02 04:35:09

End at: 2018-01-02 04:35:39

Below is generated by plot.py at 2018-01-02 08:11:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 62.16 Mbit/s

95th percentile per-packet one-way delay: 56.436 ms

Loss rate: 0.66%

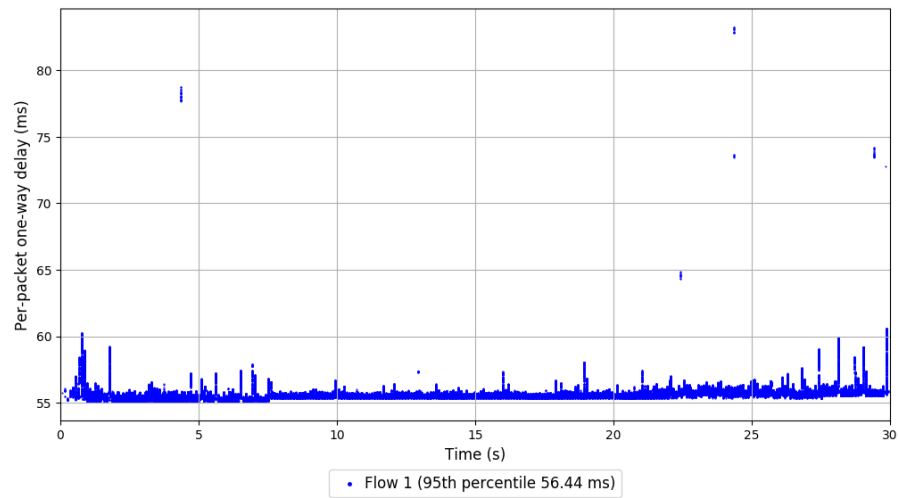
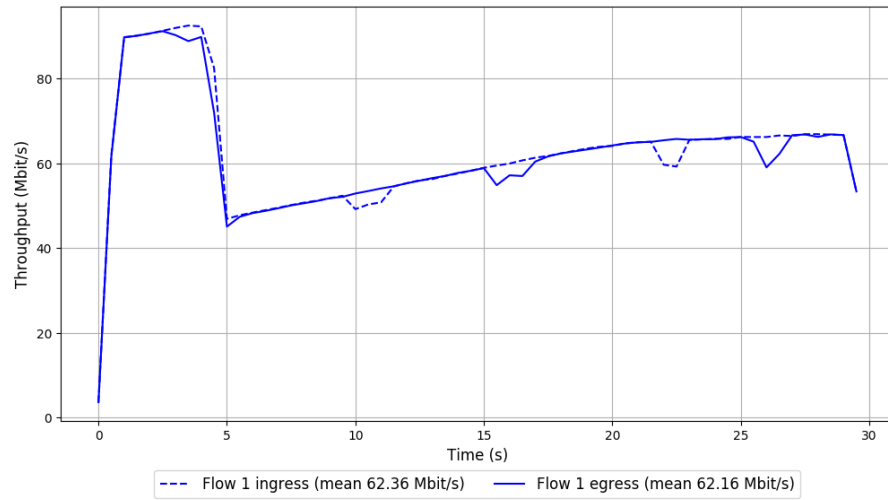
-- Flow 1:

Average throughput: 62.16 Mbit/s

95th percentile per-packet one-way delay: 56.436 ms

Loss rate: 0.66%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-01-02 04:46:52

End at: 2018-01-02 04:47:22

Below is generated by plot.py at 2018-01-02 08:11:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 20.01 Mbit/s

95th percentile per-packet one-way delay: 55.509 ms

Loss rate: 2.54%

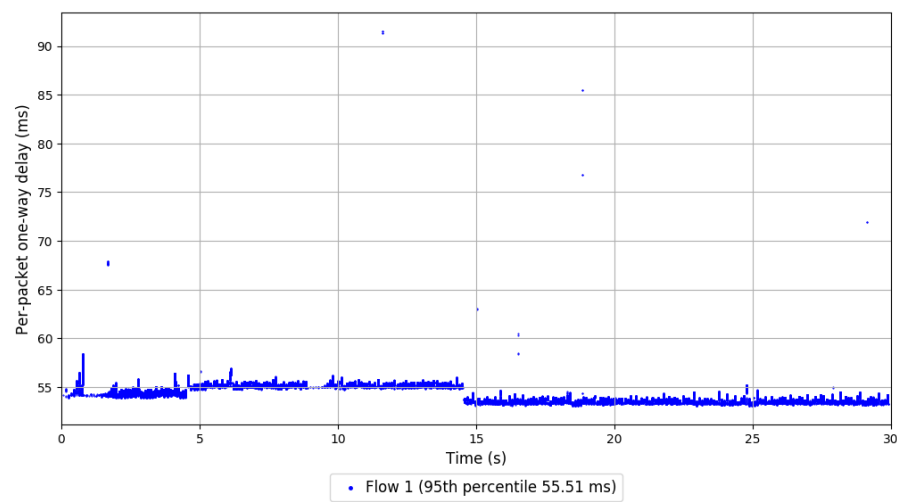
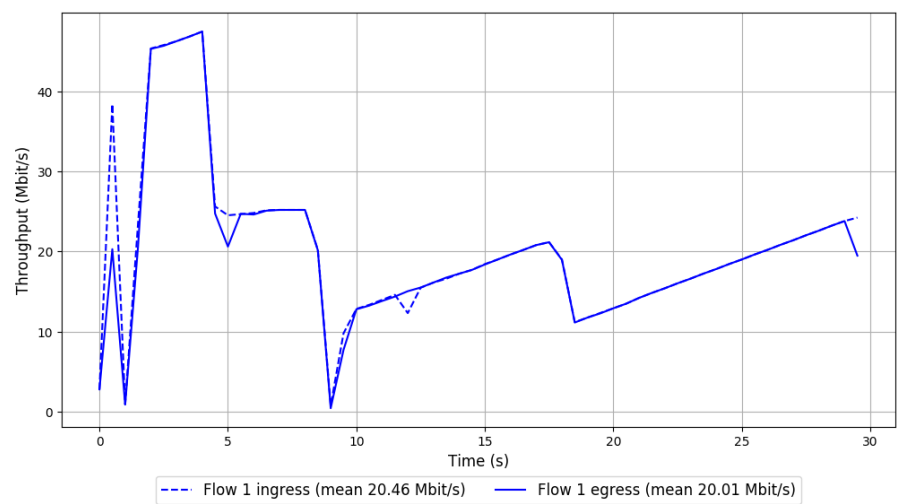
-- Flow 1:

Average throughput: 20.01 Mbit/s

95th percentile per-packet one-way delay: 55.509 ms

Loss rate: 2.54%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-01-02 04:58:33

End at: 2018-01-02 04:59:03

Below is generated by plot.py at 2018-01-02 08:11:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 43.88 Mbit/s

95th percentile per-packet one-way delay: 54.798 ms

Loss rate: 0.37%

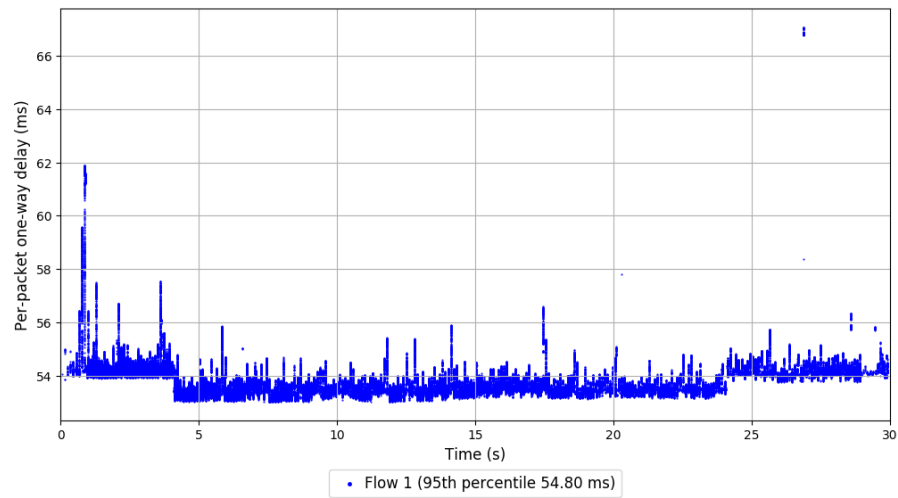
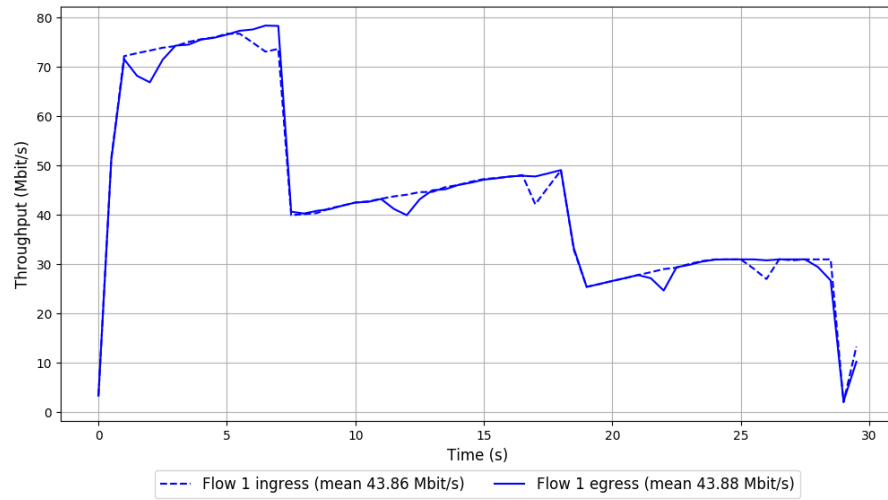
-- Flow 1:

Average throughput: 43.88 Mbit/s

95th percentile per-packet one-way delay: 54.798 ms

Loss rate: 0.37%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-01-02 05:10:20

End at: 2018-01-02 05:10:50

Below is generated by plot.py at 2018-01-02 08:11:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 16.97 Mbit/s

95th percentile per-packet one-way delay: 54.091 ms

Loss rate: 0.76%

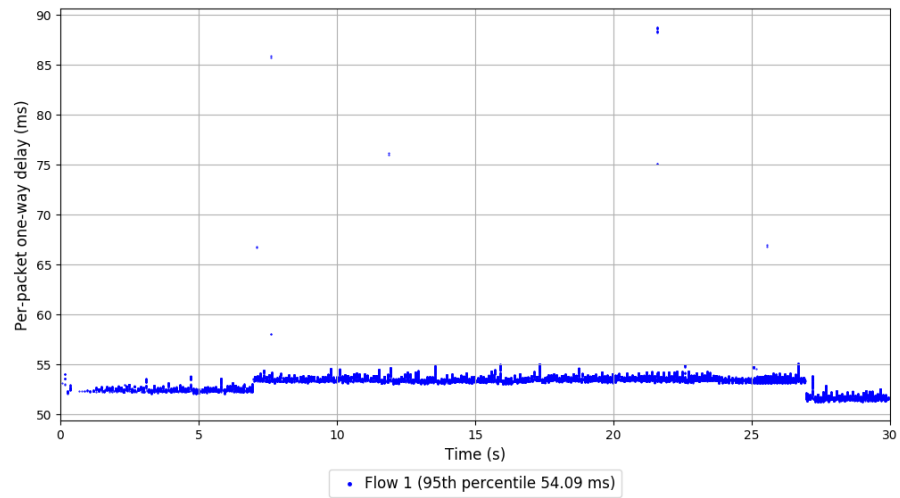
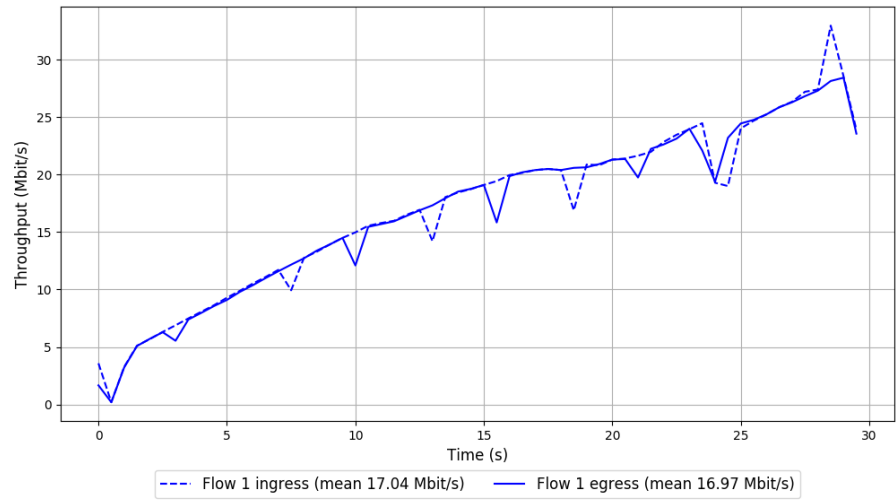
-- Flow 1:

Average throughput: 16.97 Mbit/s

95th percentile per-packet one-way delay: 54.091 ms

Loss rate: 0.76%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-01-02 05:21:42

End at: 2018-01-02 05:22:12

Below is generated by plot.py at 2018-01-02 08:11:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 17.98 Mbit/s

95th percentile per-packet one-way delay: 53.195 ms

Loss rate: 2.28%

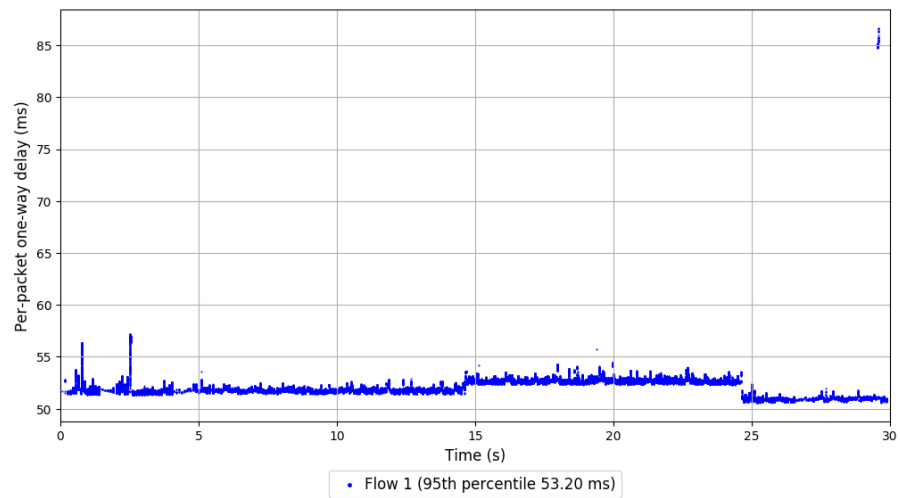
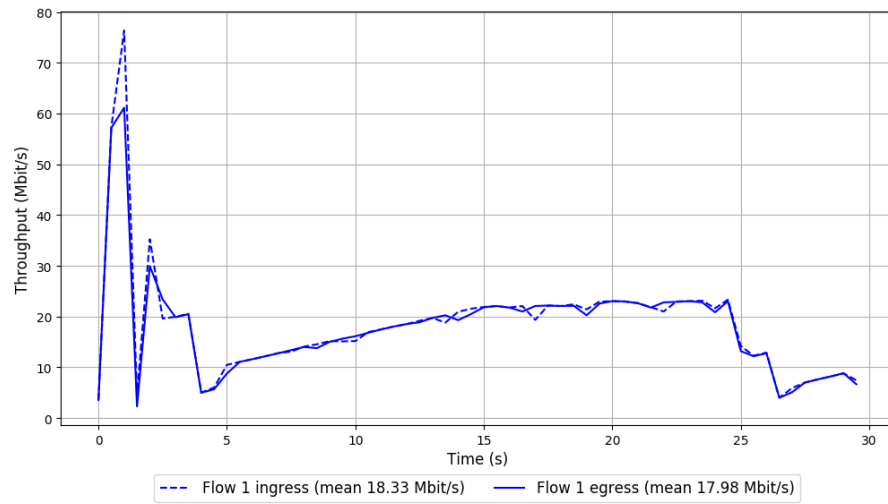
-- Flow 1:

Average throughput: 17.98 Mbit/s

95th percentile per-packet one-way delay: 53.195 ms

Loss rate: 2.28%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-01-02 05:33:00

End at: 2018-01-02 05:33:30

Below is generated by plot.py at 2018-01-02 08:11:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 21.78 Mbit/s

95th percentile per-packet one-way delay: 52.859 ms

Loss rate: 0.28%

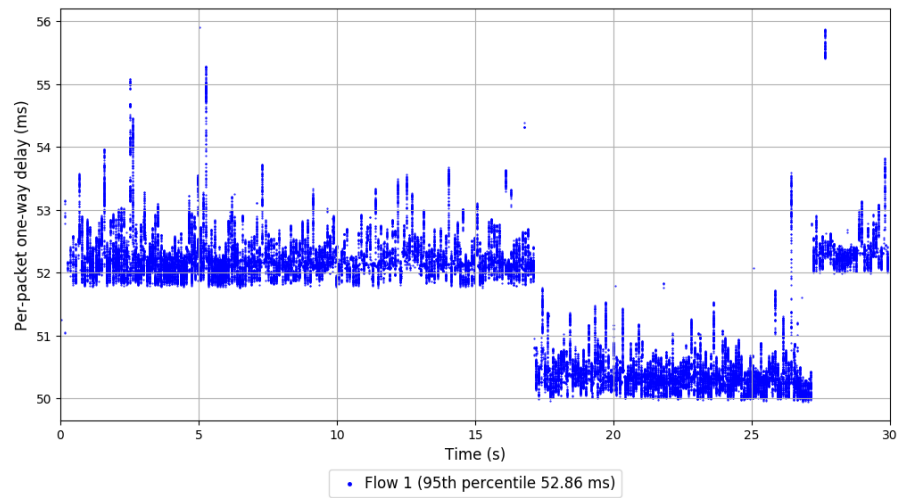
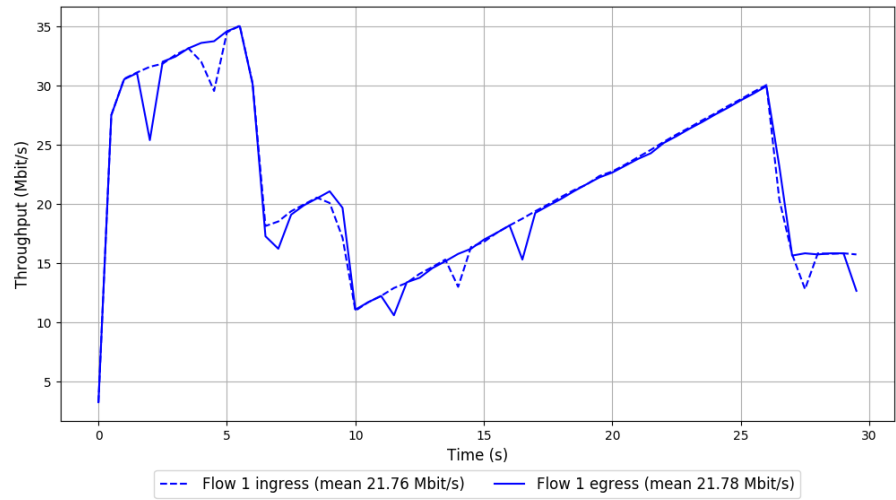
-- Flow 1:

Average throughput: 21.78 Mbit/s

95th percentile per-packet one-way delay: 52.859 ms

Loss rate: 0.28%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-01-02 03:39:57

End at: 2018-01-02 03:40:27

Below is generated by plot.py at 2018-01-02 08:11:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 265.38 Mbit/s

95th percentile per-packet one-way delay: 93.112 ms

Loss rate: 2.77%

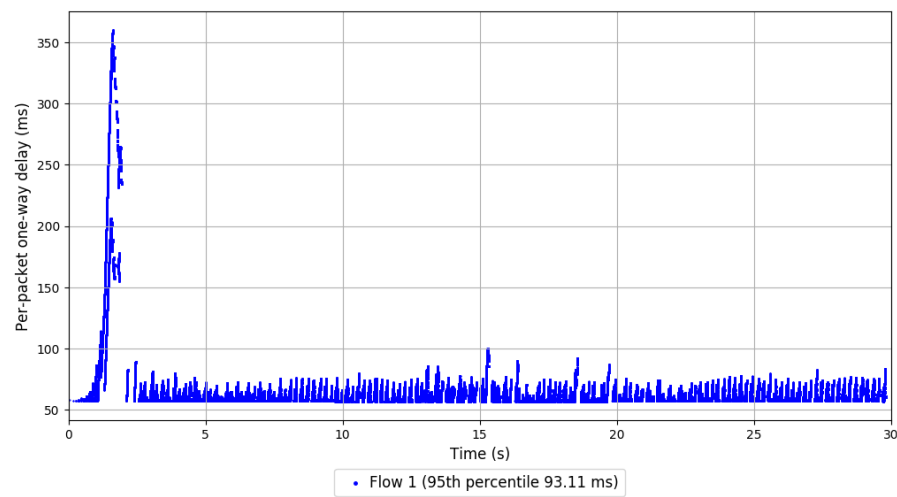
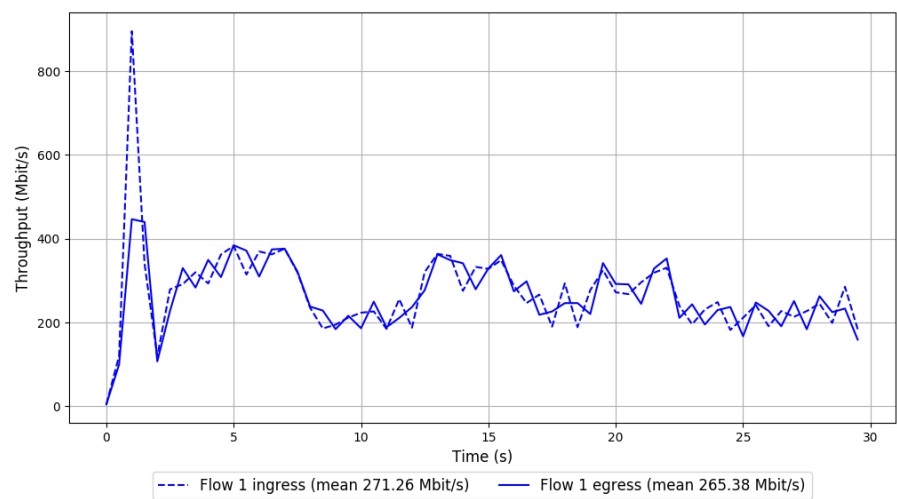
-- Flow 1:

Average throughput: 265.38 Mbit/s

95th percentile per-packet one-way delay: 93.112 ms

Loss rate: 2.77%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-01-02 03:51:46

End at: 2018-01-02 03:52:16

Below is generated by plot.py at 2018-01-02 08:11:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 297.66 Mbit/s

95th percentile per-packet one-way delay: 155.323 ms

Loss rate: 1.35%

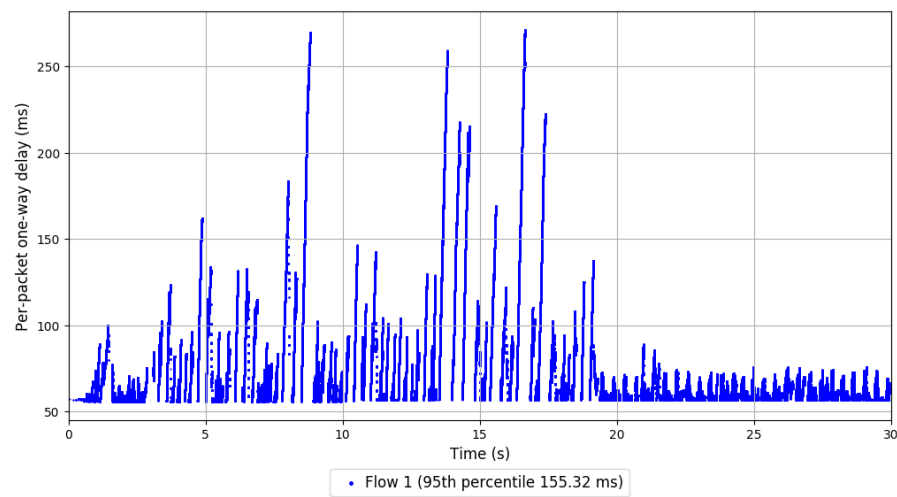
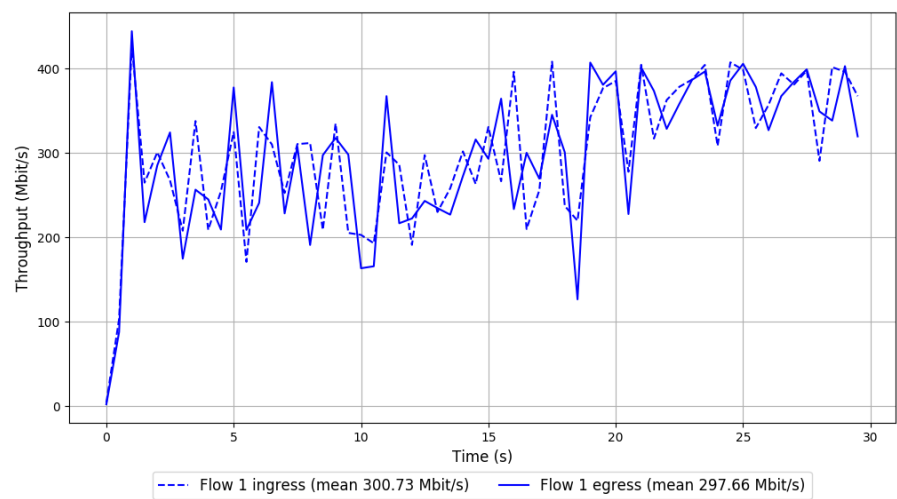
-- Flow 1:

Average throughput: 297.66 Mbit/s

95th percentile per-packet one-way delay: 155.323 ms

Loss rate: 1.35%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-01-02 04:03:30

End at: 2018-01-02 04:04:00

Below is generated by plot.py at 2018-01-02 08:11:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 263.44 Mbit/s

95th percentile per-packet one-way delay: 94.917 ms

Loss rate: 3.00%

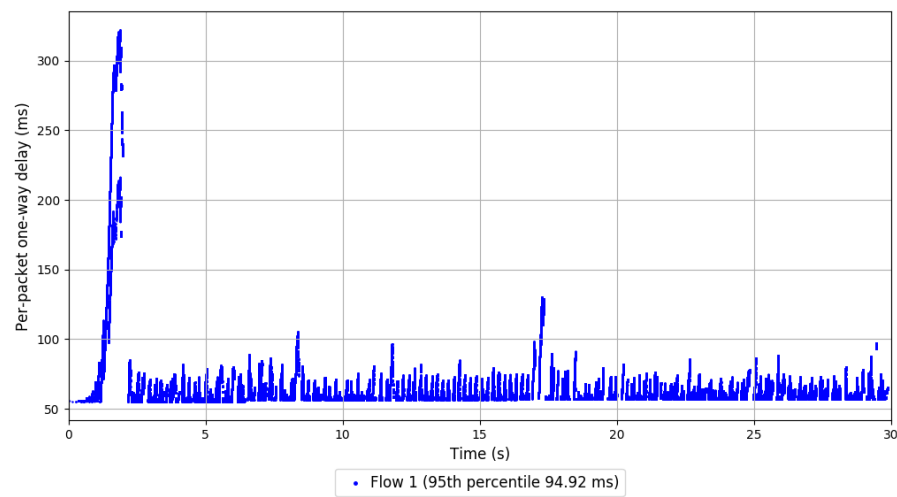
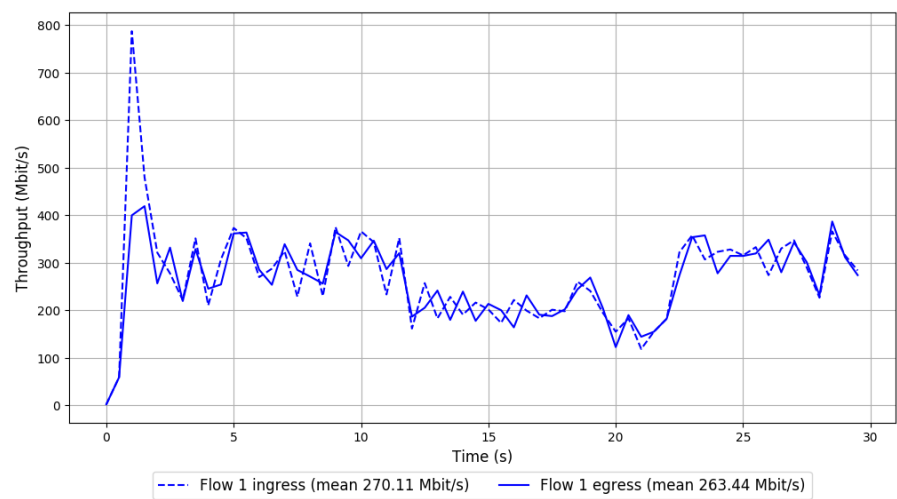
-- Flow 1:

Average throughput: 263.44 Mbit/s

95th percentile per-packet one-way delay: 94.917 ms

Loss rate: 3.00%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-01-02 04:15:20

End at: 2018-01-02 04:15:50

Below is generated by plot.py at 2018-01-02 08:11:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 275.20 Mbit/s

95th percentile per-packet one-way delay: 70.487 ms

Loss rate: 1.10%

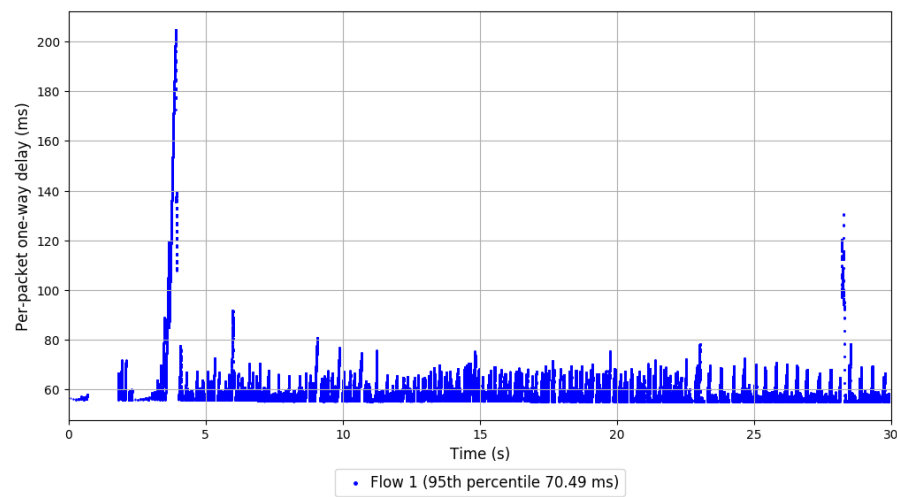
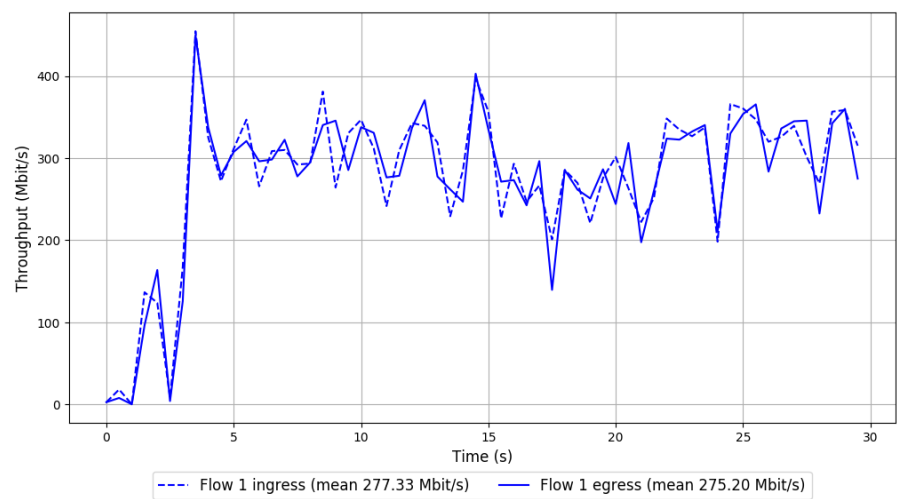
-- Flow 1:

Average throughput: 275.20 Mbit/s

95th percentile per-packet one-way delay: 70.487 ms

Loss rate: 1.10%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-01-02 04:27:05

End at: 2018-01-02 04:27:35

Below is generated by plot.py at 2018-01-02 08:15:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 282.47 Mbit/s

95th percentile per-packet one-way delay: 78.043 ms

Loss rate: 2.49%

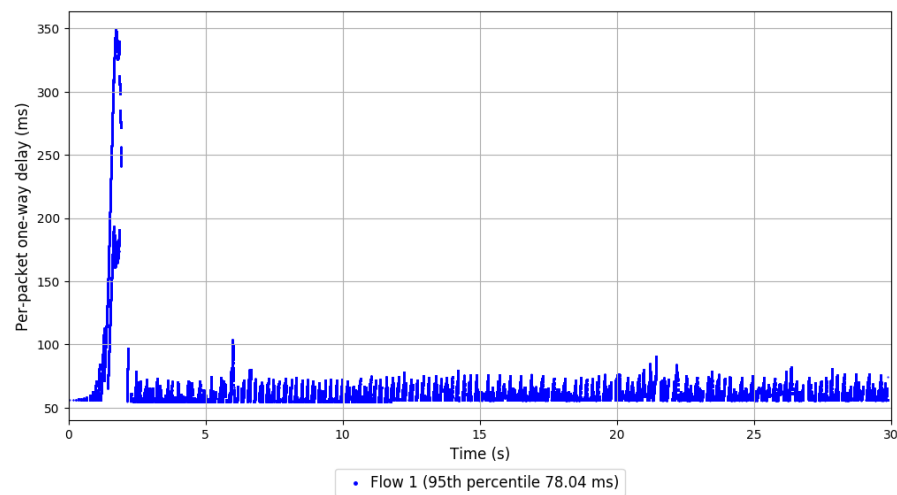
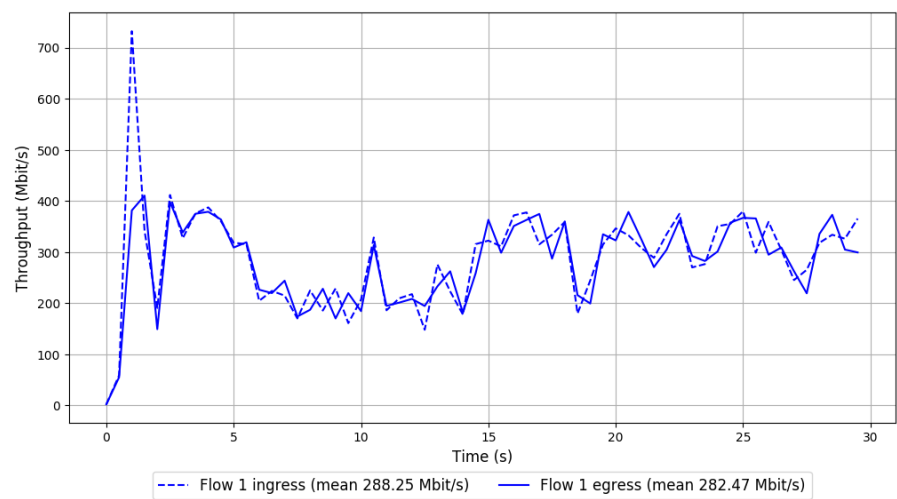
-- Flow 1:

Average throughput: 282.47 Mbit/s

95th percentile per-packet one-way delay: 78.043 ms

Loss rate: 2.49%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-01-02 04:38:52

End at: 2018-01-02 04:39:22

Below is generated by plot.py at 2018-01-02 08:15:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 274.84 Mbit/s

95th percentile per-packet one-way delay: 99.757 ms

Loss rate: 0.82%

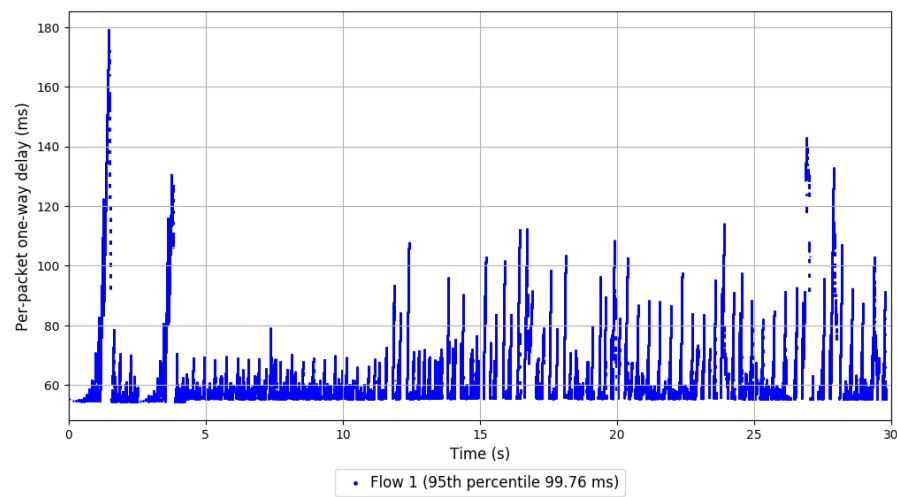
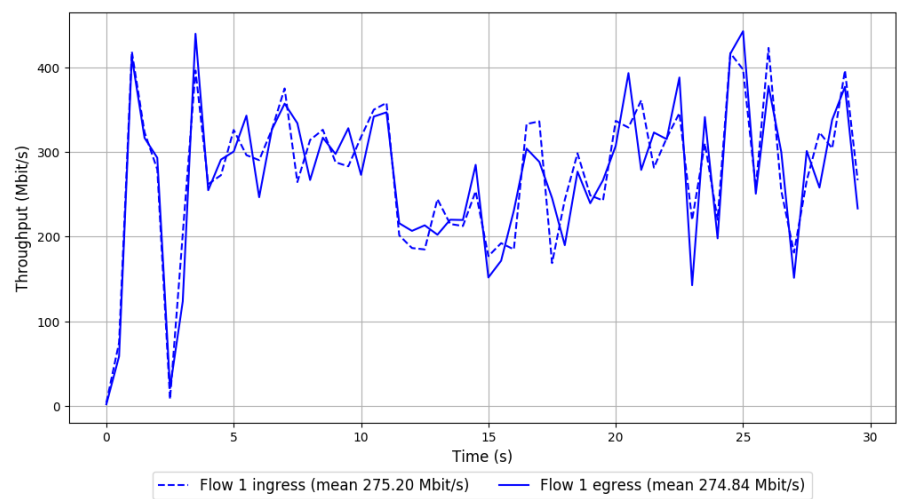
-- Flow 1:

Average throughput: 274.84 Mbit/s

95th percentile per-packet one-way delay: 99.757 ms

Loss rate: 0.82%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-01-02 04:50:34

End at: 2018-01-02 04:51:05

Below is generated by plot.py at 2018-01-02 08:15:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 244.34 Mbit/s

95th percentile per-packet one-way delay: 114.976 ms

Loss rate: 4.35%

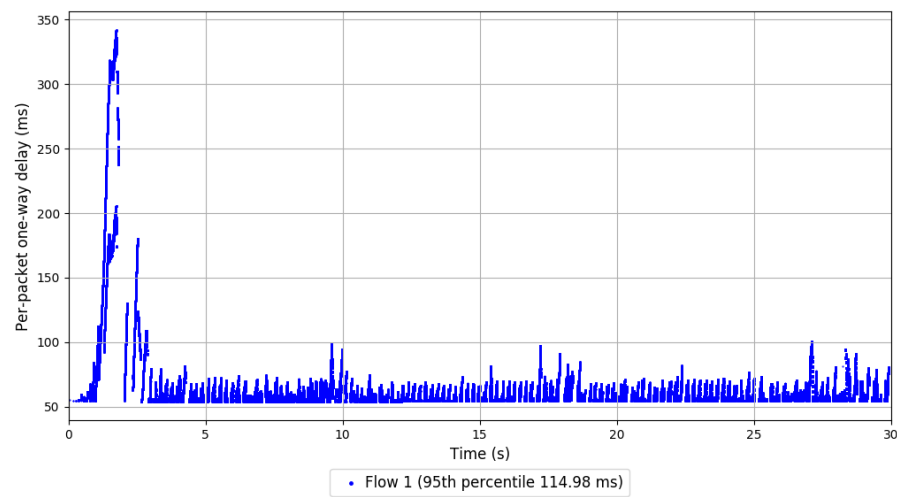
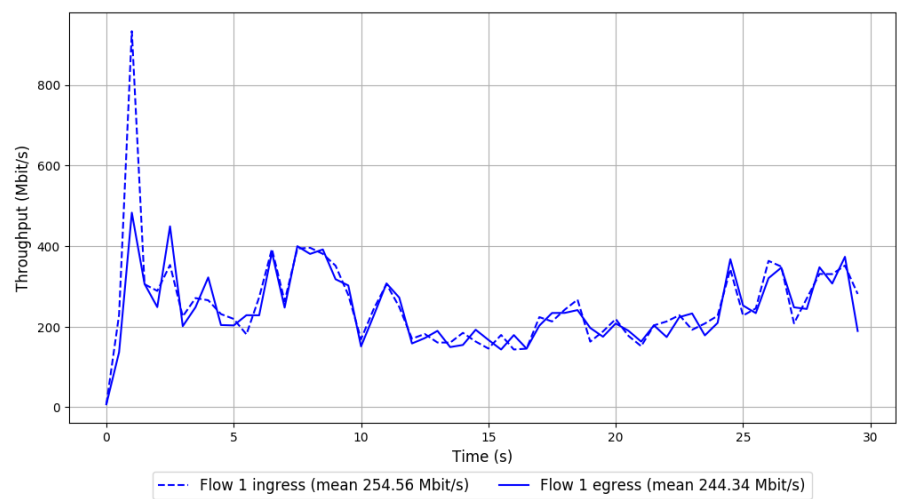
-- Flow 1:

Average throughput: 244.34 Mbit/s

95th percentile per-packet one-way delay: 114.976 ms

Loss rate: 4.35%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-01-02 05:02:18

End at: 2018-01-02 05:02:48

Below is generated by plot.py at 2018-01-02 08:15:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 265.68 Mbit/s

95th percentile per-packet one-way delay: 84.791 ms

Loss rate: 2.20%

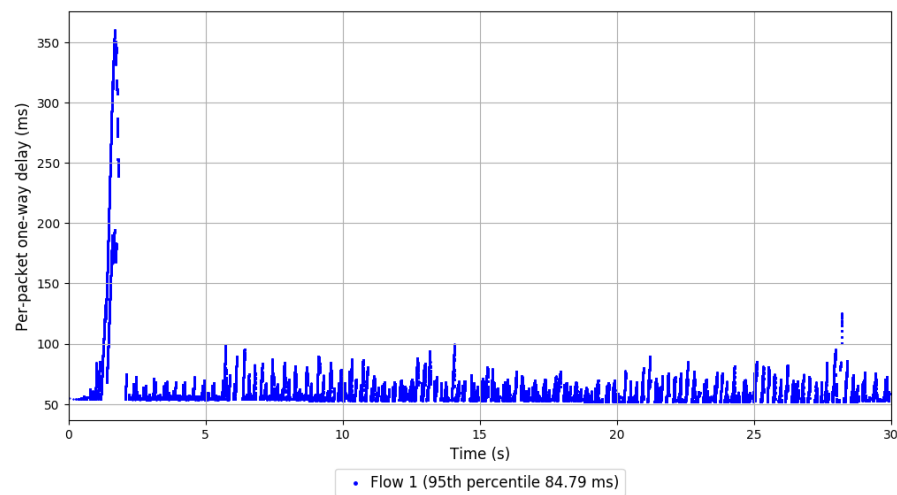
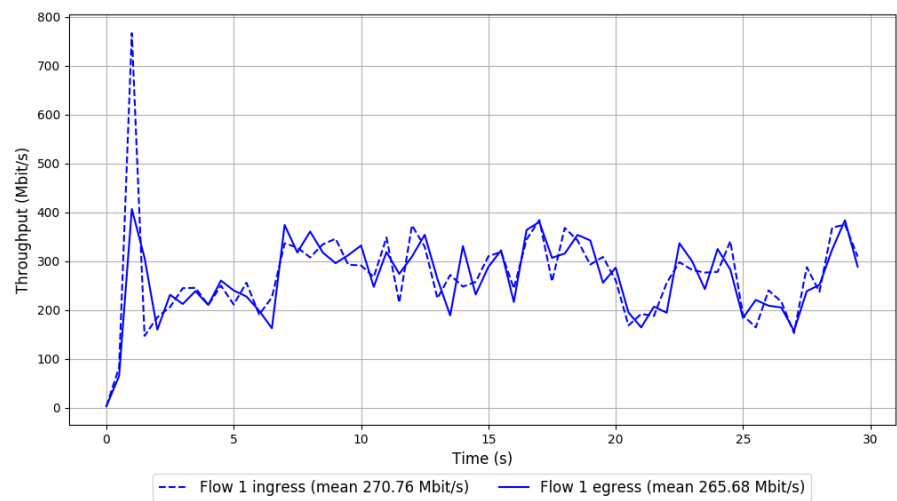
-- Flow 1:

Average throughput: 265.68 Mbit/s

95th percentile per-packet one-way delay: 84.791 ms

Loss rate: 2.20%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-01-02 05:13:59

End at: 2018-01-02 05:14:29

Below is generated by plot.py at 2018-01-02 08:15:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 225.01 Mbit/s

95th percentile per-packet one-way delay: 156.629 ms

Loss rate: 2.94%

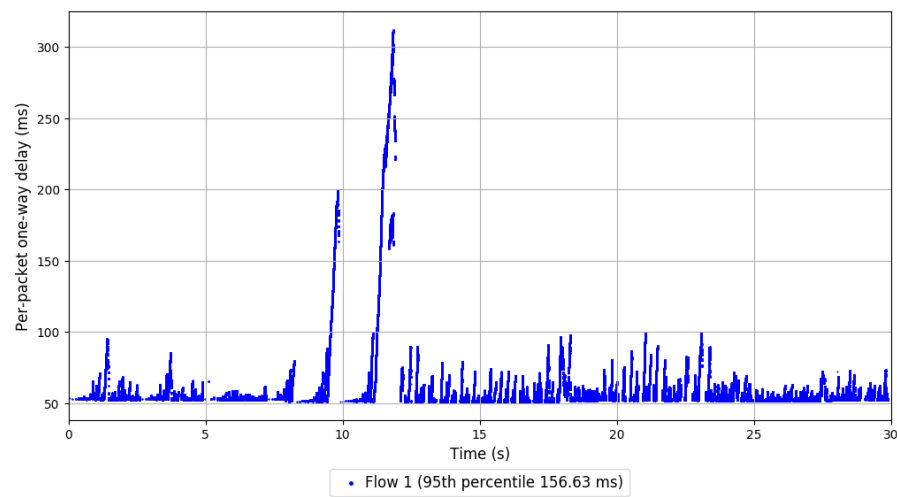
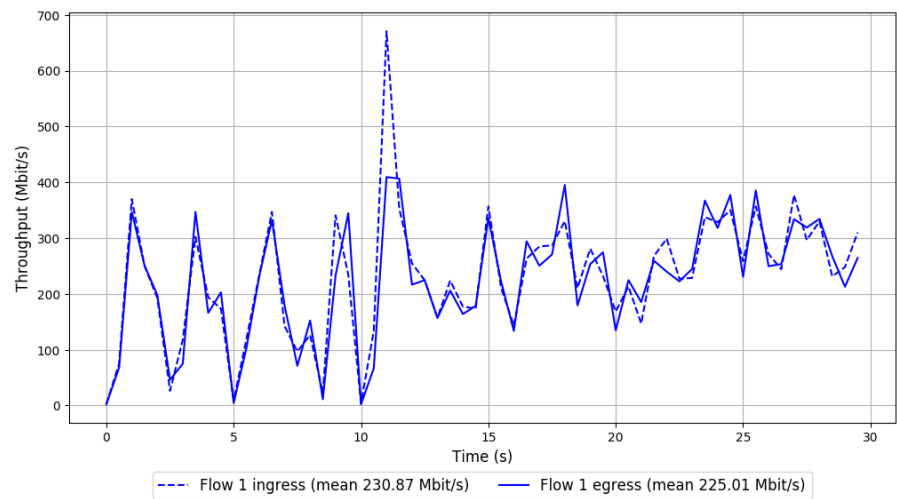
-- Flow 1:

Average throughput: 225.01 Mbit/s

95th percentile per-packet one-way delay: 156.629 ms

Loss rate: 2.94%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-01-02 05:25:20

End at: 2018-01-02 05:25:50

Below is generated by plot.py at 2018-01-02 08:15:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 209.11 Mbit/s

95th percentile per-packet one-way delay: 94.403 ms

Loss rate: 1.16%

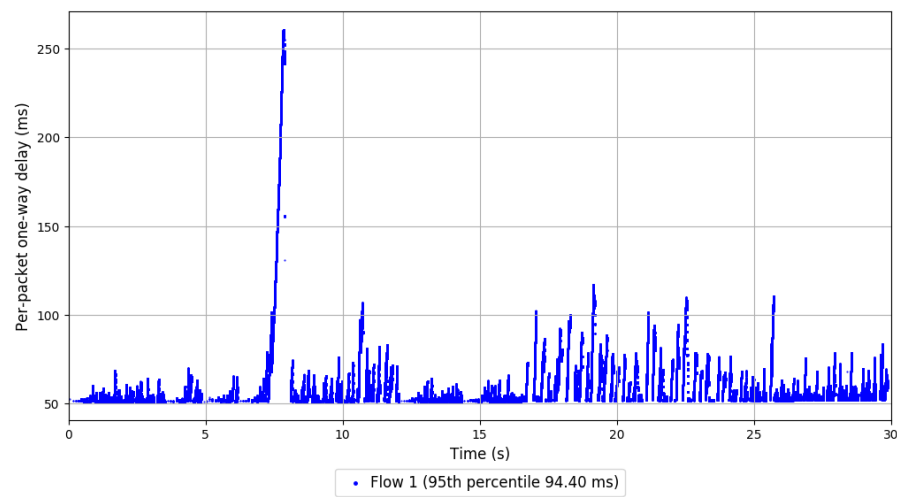
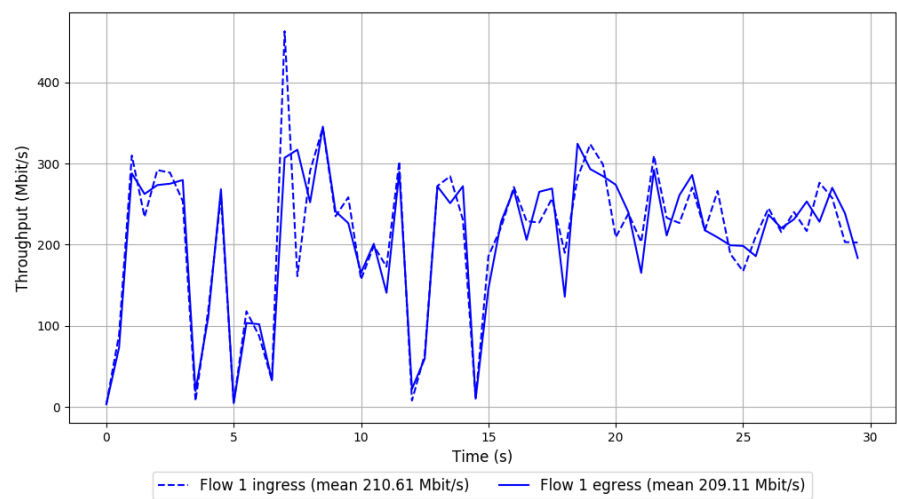
-- Flow 1:

Average throughput: 209.11 Mbit/s

95th percentile per-packet one-way delay: 94.403 ms

Loss rate: 1.16%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2018-01-02 03:40:52

End at: 2018-01-02 03:41:22

Below is generated by plot.py at 2018-01-02 08:15:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.97 Mbit/s

95th percentile per-packet one-way delay: 57.710 ms

Loss rate: 0.39%

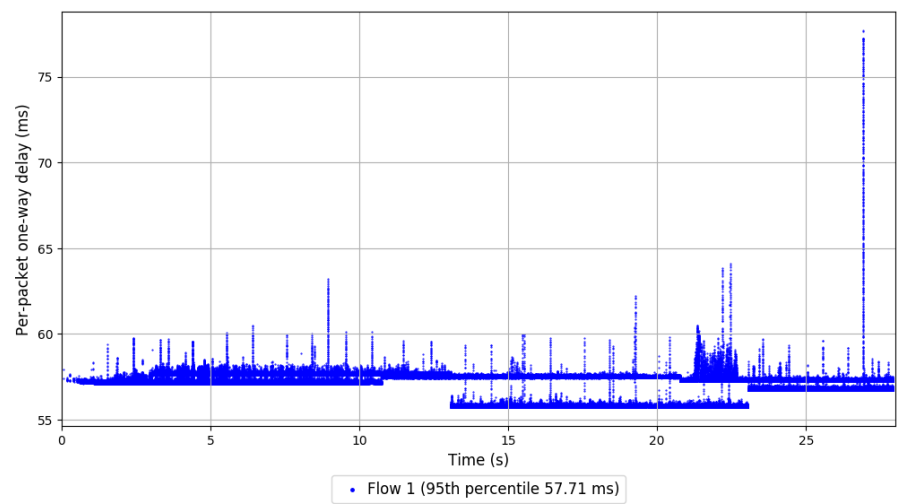
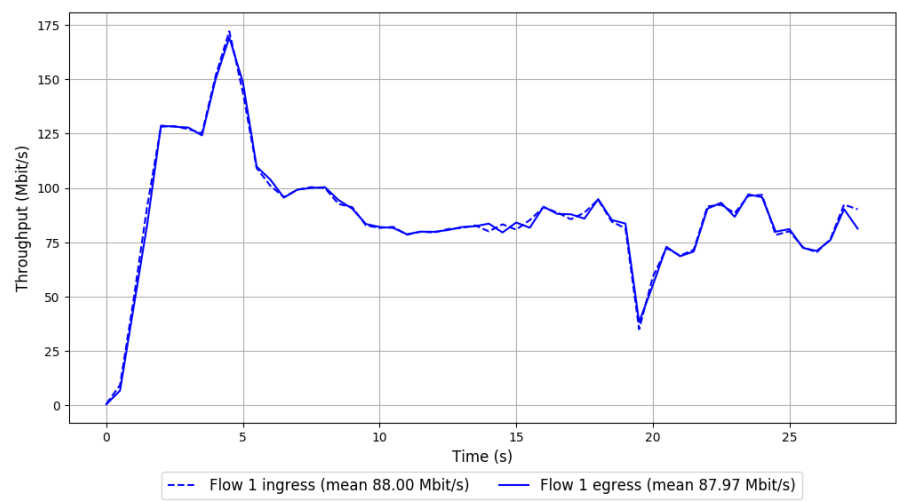
-- Flow 1:

Average throughput: 87.97 Mbit/s

95th percentile per-packet one-way delay: 57.710 ms

Loss rate: 0.39%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-01-02 03:52:43

End at: 2018-01-02 03:53:13

Below is generated by plot.py at 2018-01-02 08:15:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 88.71 Mbit/s

95th percentile per-packet one-way delay: 57.522 ms

Loss rate: 0.37%

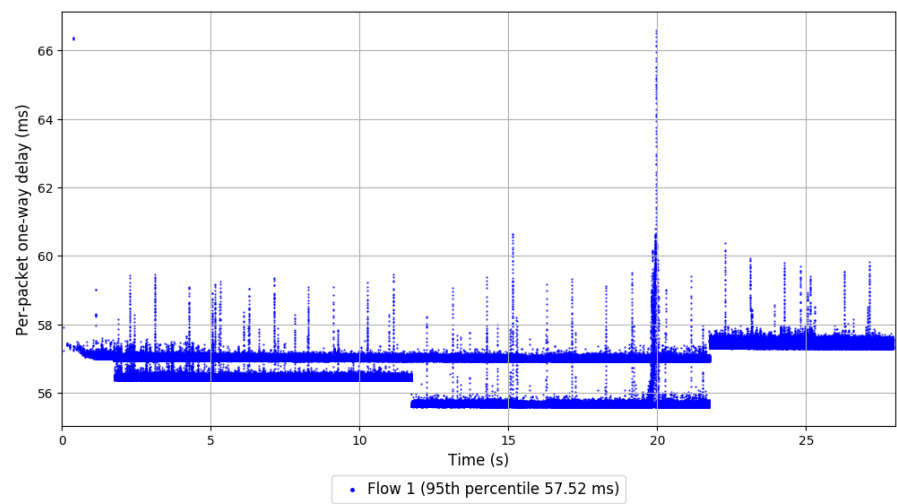
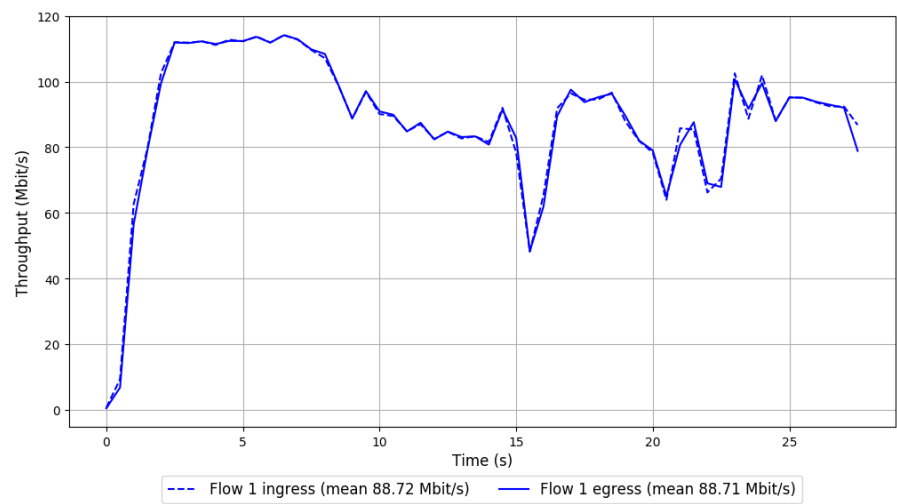
-- Flow 1:

Average throughput: 88.71 Mbit/s

95th percentile per-packet one-way delay: 57.522 ms

Loss rate: 0.37%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-01-02 04:04:25

End at: 2018-01-02 04:04:55

Below is generated by plot.py at 2018-01-02 08:16:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.71 Mbit/s

95th percentile per-packet one-way delay: 56.898 ms

Loss rate: 0.16%

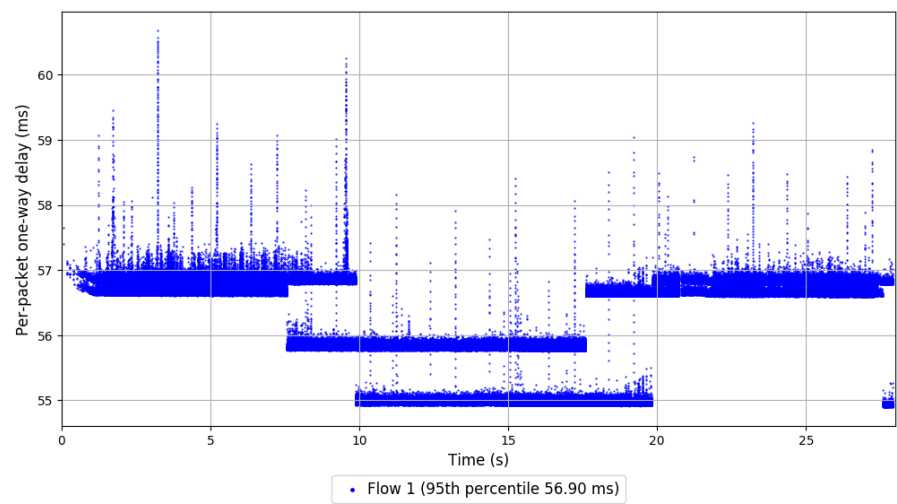
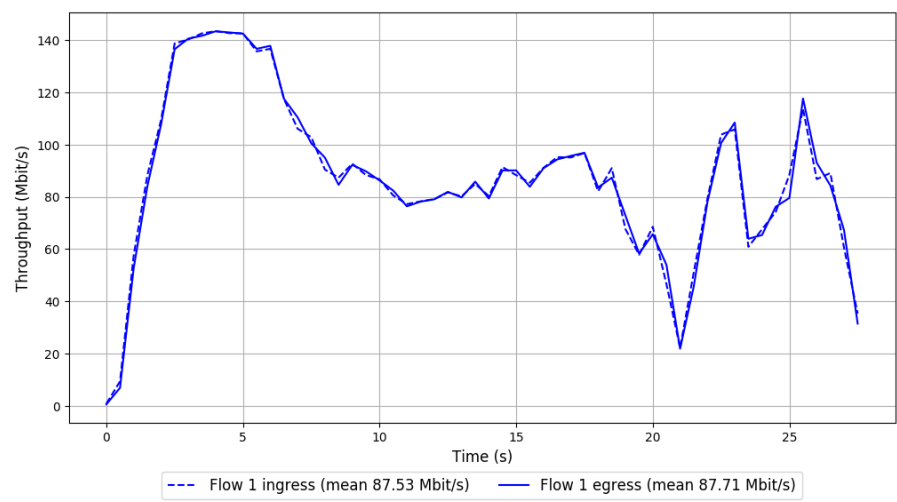
-- Flow 1:

Average throughput: 87.71 Mbit/s

95th percentile per-packet one-way delay: 56.898 ms

Loss rate: 0.16%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-01-02 04:16:16

End at: 2018-01-02 04:16:46

Below is generated by plot.py at 2018-01-02 08:16:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 81.89 Mbit/s

95th percentile per-packet one-way delay: 56.235 ms

Loss rate: 0.10%

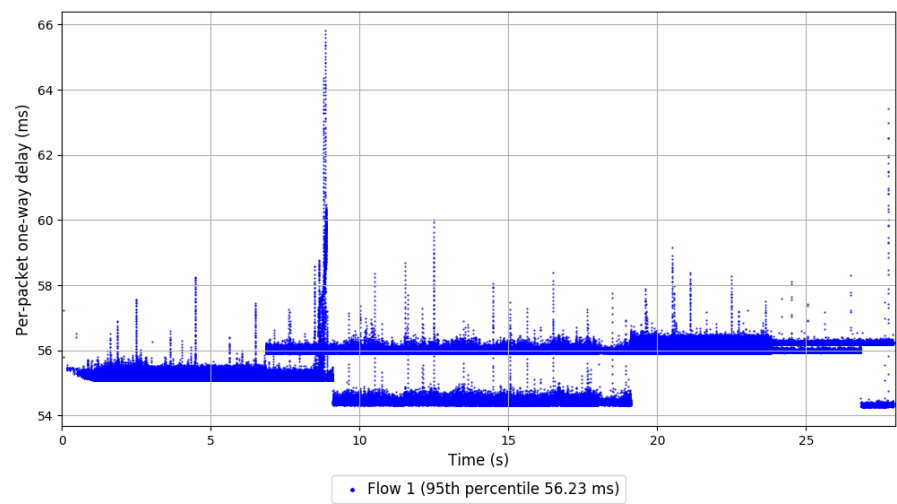
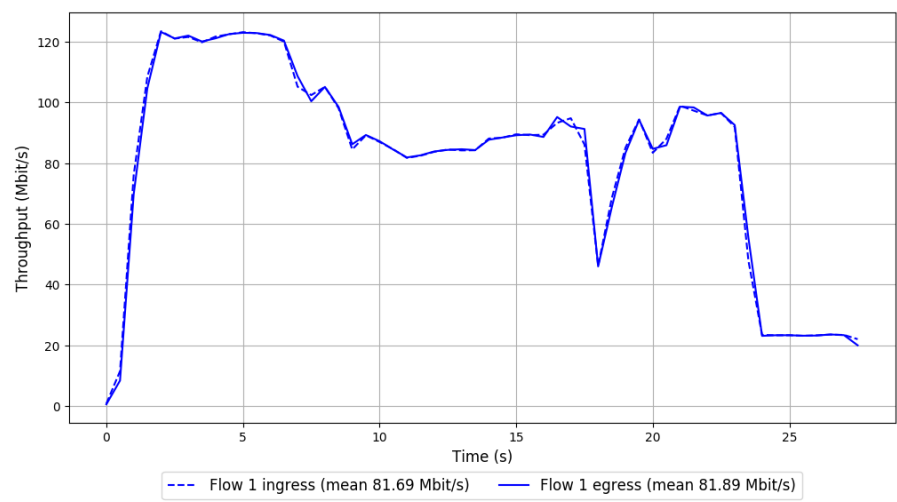
-- Flow 1:

Average throughput: 81.89 Mbit/s

95th percentile per-packet one-way delay: 56.235 ms

Loss rate: 0.10%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-01-02 04:28:01

End at: 2018-01-02 04:28:31

Below is generated by plot.py at 2018-01-02 08:17:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.59 Mbit/s

95th percentile per-packet one-way delay: 55.689 ms

Loss rate: 0.53%

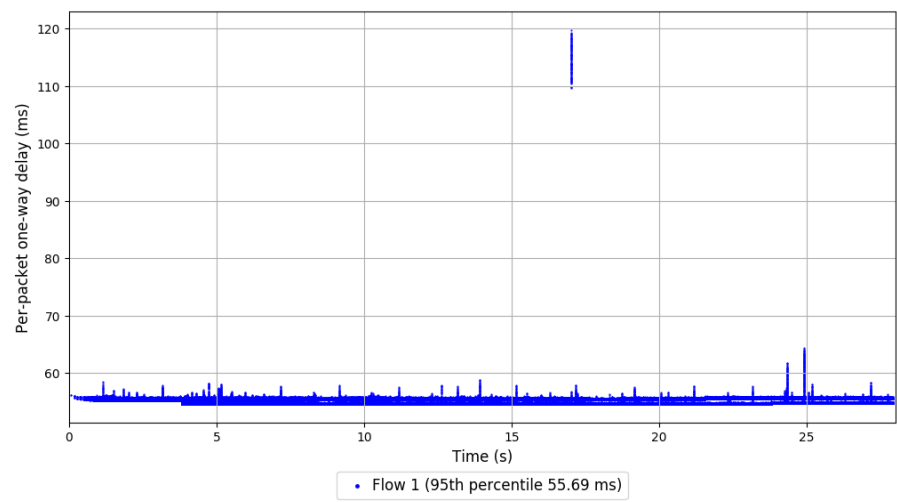
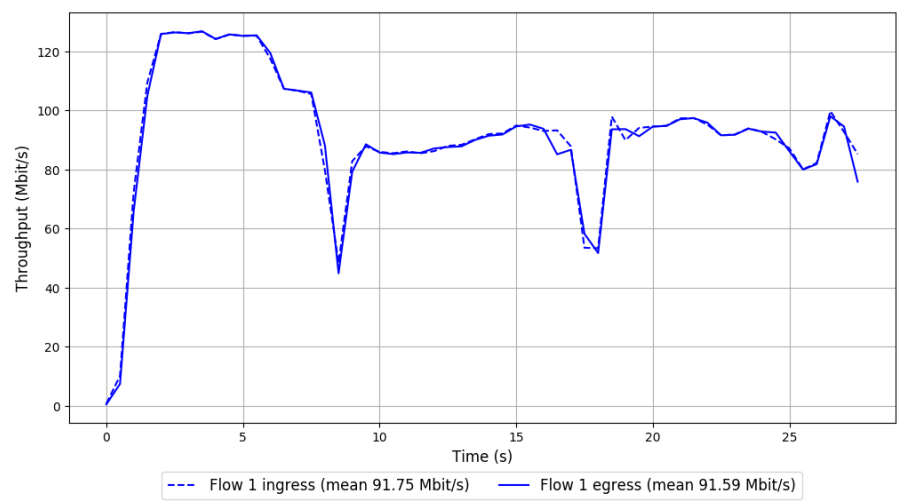
-- Flow 1:

Average throughput: 91.59 Mbit/s

95th percentile per-packet one-way delay: 55.689 ms

Loss rate: 0.53%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-01-02 04:39:48

End at: 2018-01-02 04:40:18

Below is generated by plot.py at 2018-01-02 08:17:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.54 Mbit/s

95th percentile per-packet one-way delay: 55.437 ms

Loss rate: 0.06%

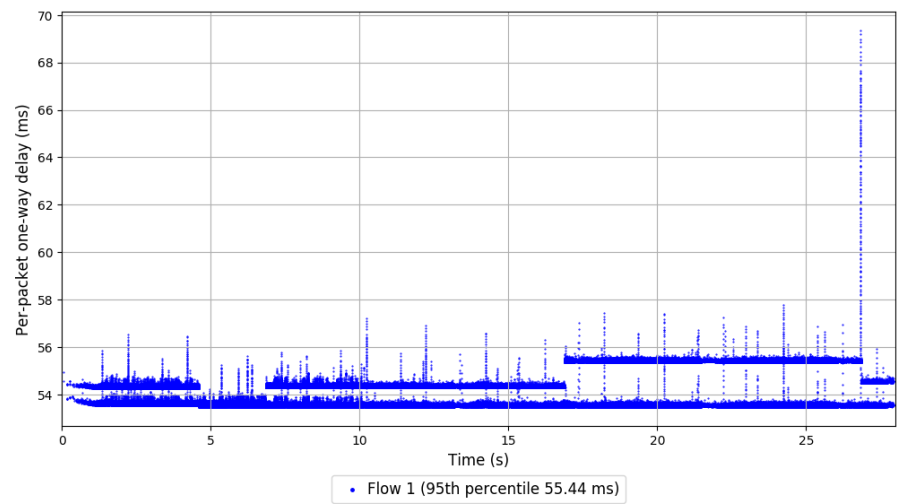
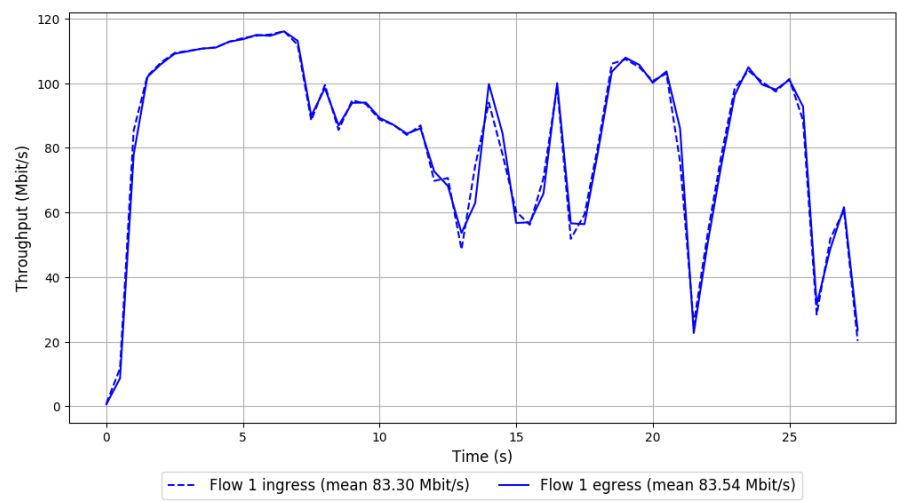
-- Flow 1:

Average throughput: 83.54 Mbit/s

95th percentile per-packet one-way delay: 55.437 ms

Loss rate: 0.06%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-01-02 04:51:28

End at: 2018-01-02 04:51:58

Below is generated by plot.py at 2018-01-02 08:17:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.36 Mbit/s

95th percentile per-packet one-way delay: 54.700 ms

Loss rate: 0.09%

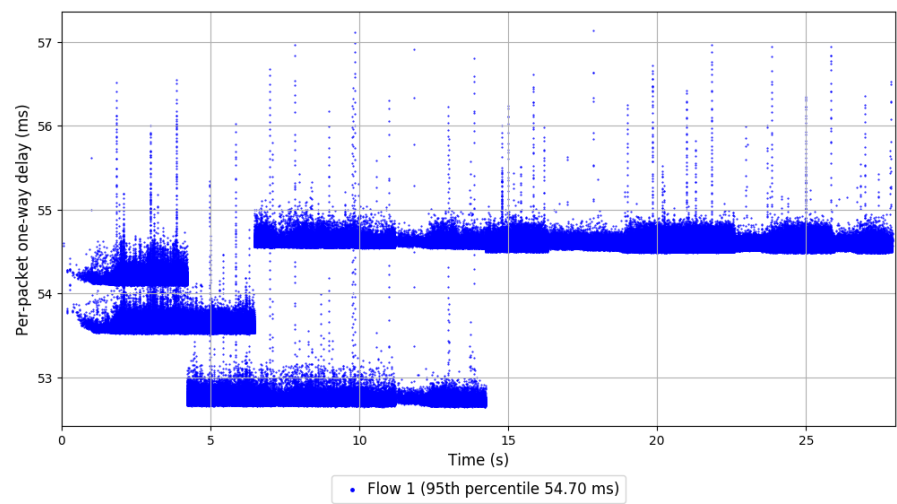
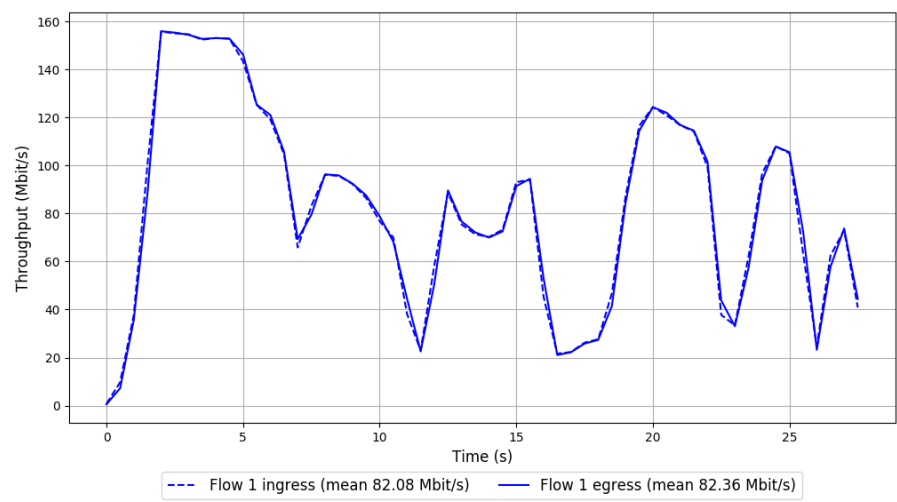
-- Flow 1:

Average throughput: 82.36 Mbit/s

95th percentile per-packet one-way delay: 54.700 ms

Loss rate: 0.09%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-01-02 05:03:14

End at: 2018-01-02 05:03:44

Below is generated by plot.py at 2018-01-02 08:17:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 69.08 Mbit/s

95th percentile per-packet one-way delay: 53.784 ms

Loss rate: 0.14%

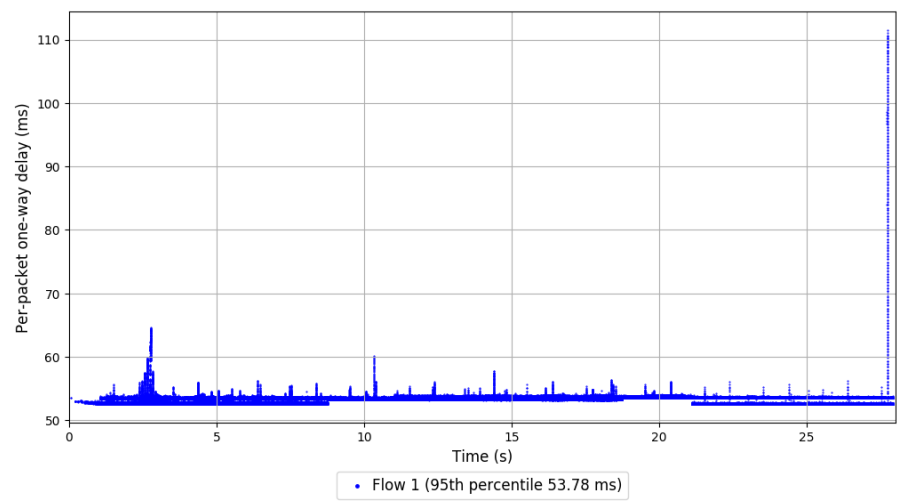
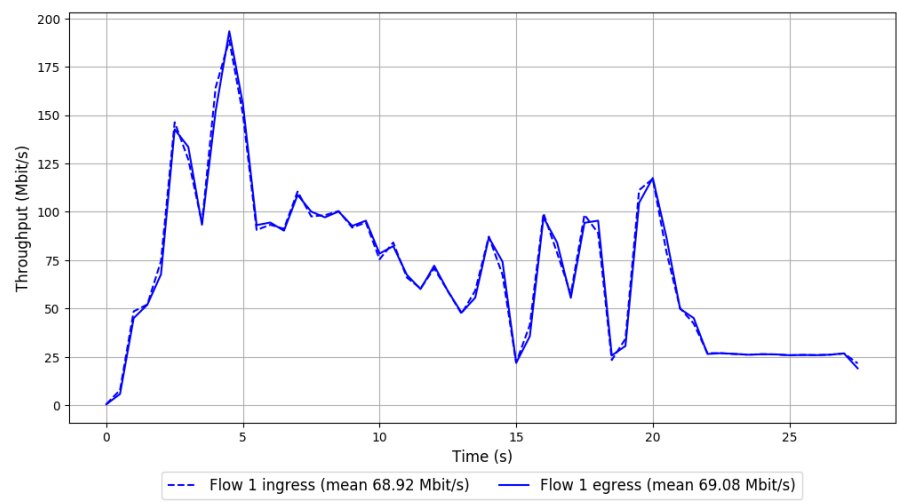
-- Flow 1:

Average throughput: 69.08 Mbit/s

95th percentile per-packet one-way delay: 53.784 ms

Loss rate: 0.14%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-01-02 05:14:52

End at: 2018-01-02 05:15:22

Below is generated by plot.py at 2018-01-02 08:17:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.34 Mbit/s

95th percentile per-packet one-way delay: 52.931 ms

Loss rate: 0.31%

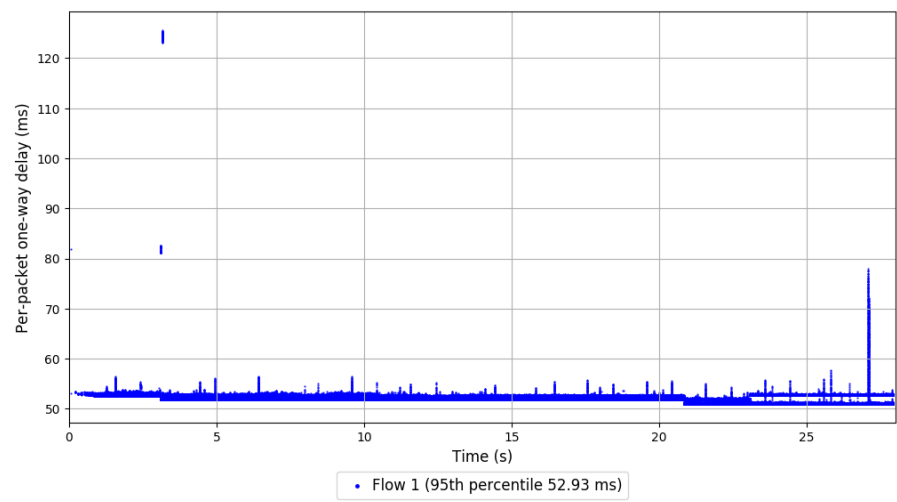
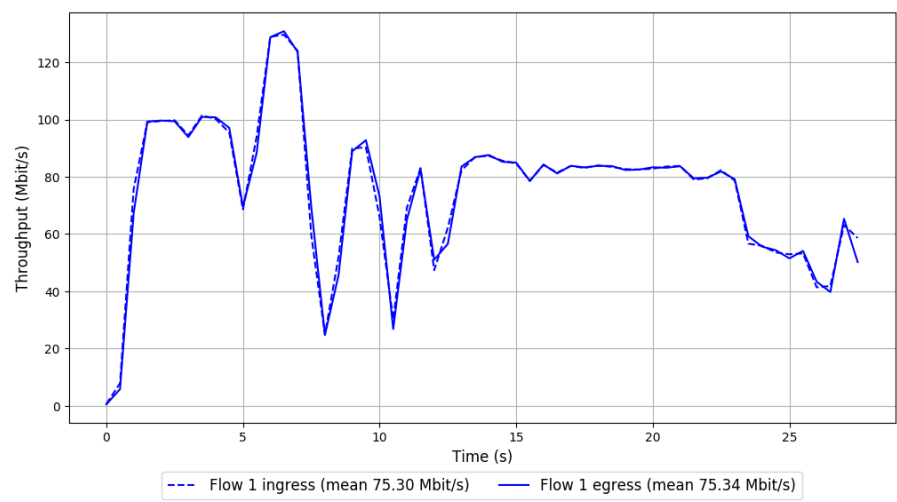
-- Flow 1:

Average throughput: 75.34 Mbit/s

95th percentile per-packet one-way delay: 52.931 ms

Loss rate: 0.31%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-01-02 05:26:12

End at: 2018-01-02 05:26:42

Below is generated by plot.py at 2018-01-02 08:17:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 67.73 Mbit/s

95th percentile per-packet one-way delay: 52.216 ms

Loss rate: 0.23%

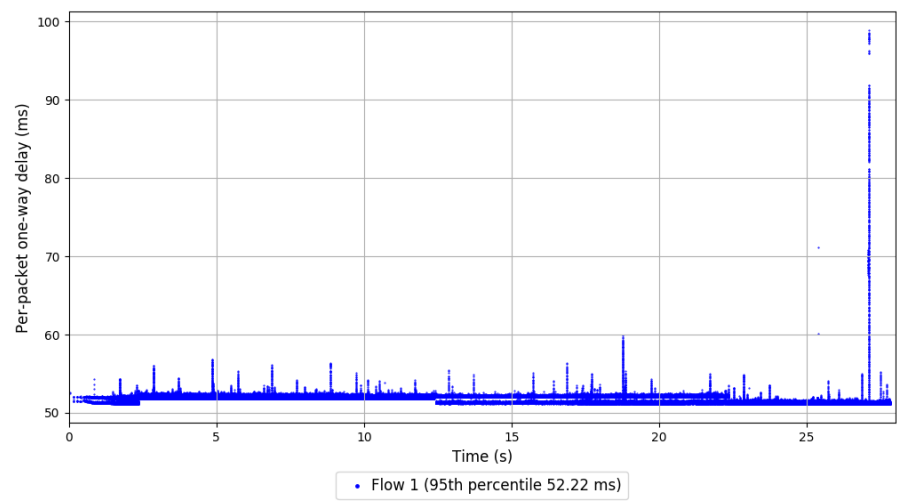
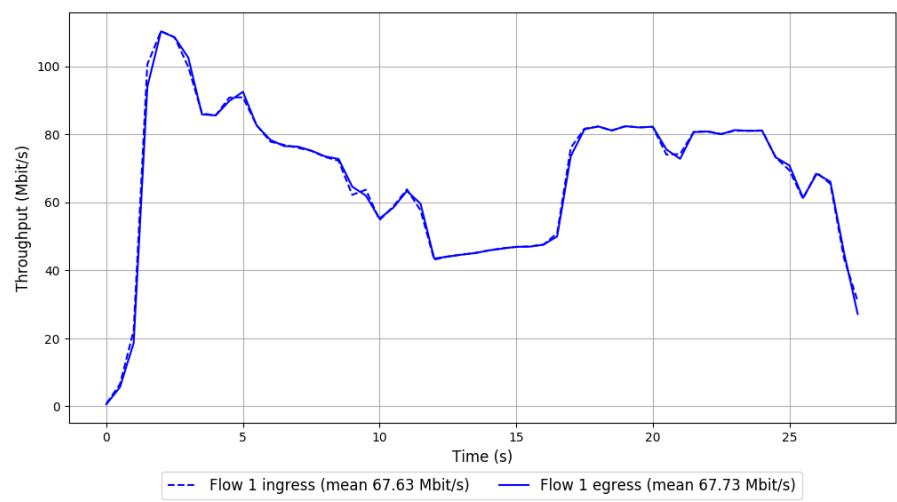
-- Flow 1:

Average throughput: 67.73 Mbit/s

95th percentile per-packet one-way delay: 52.216 ms

Loss rate: 0.23%

Run 10: Report of Copa — Data Link

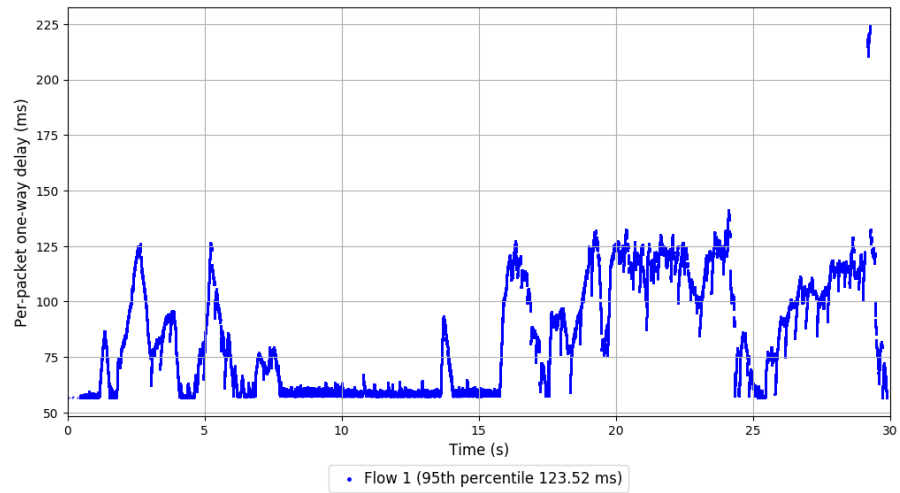
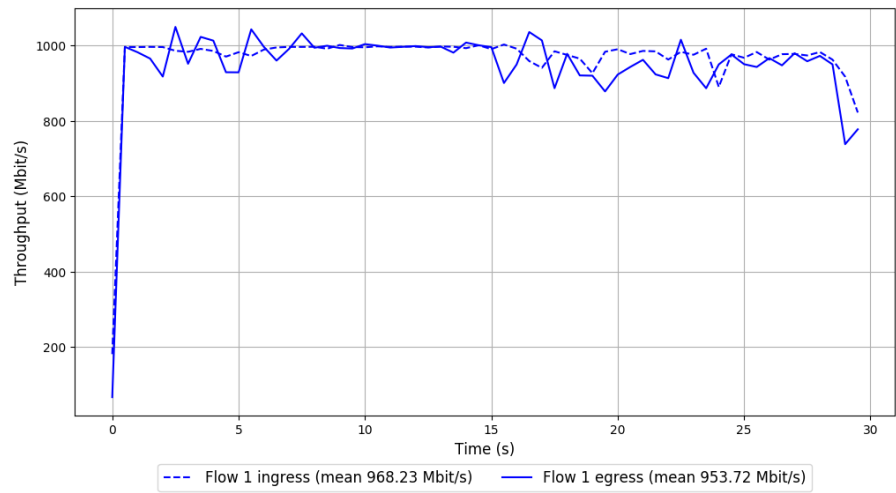


```
Run 1: Statistics of FillP

Start at: 2018-01-02 03:42:19
End at: 2018-01-02 03:42:49

# Below is generated by plot.py at 2018-01-02 08:34:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 953.72 Mbit/s
95th percentile per-packet one-way delay: 123.521 ms
Loss rate: 1.80%
-- Flow 1:
Average throughput: 953.72 Mbit/s
95th percentile per-packet one-way delay: 123.521 ms
Loss rate: 1.80%
```

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-01-02 03:54:04

End at: 2018-01-02 03:54:35

Below is generated by plot.py at 2018-01-02 08:34:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 968.79 Mbit/s

95th percentile per-packet one-way delay: 121.150 ms

Loss rate: 0.85%

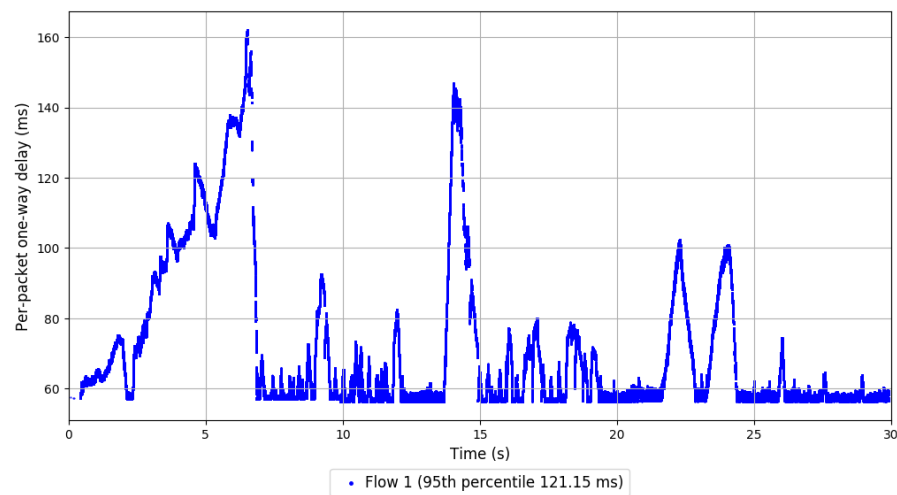
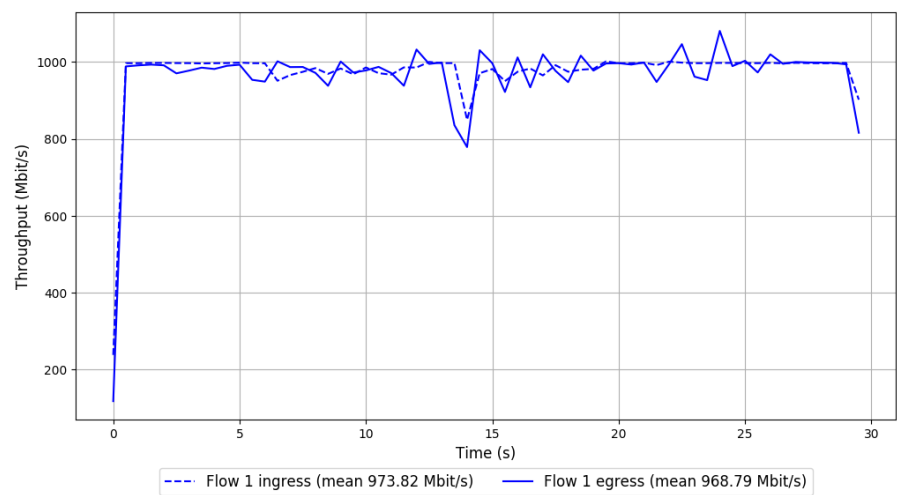
-- Flow 1:

Average throughput: 968.79 Mbit/s

95th percentile per-packet one-way delay: 121.150 ms

Loss rate: 0.85%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-01-02 04:05:53

End at: 2018-01-02 04:06:23

Below is generated by plot.py at 2018-01-02 08:34:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 966.05 Mbit/s

95th percentile per-packet one-way delay: 119.550 ms

Loss rate: 1.44%

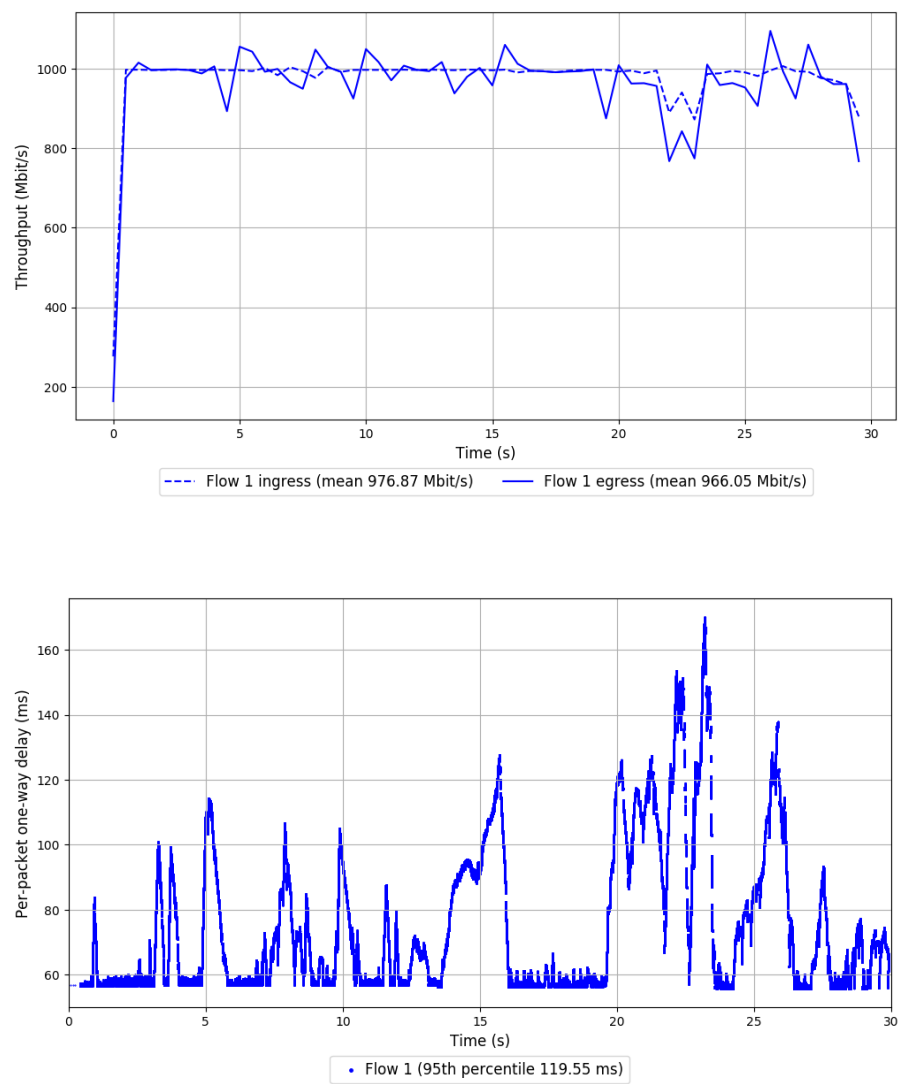
-- Flow 1:

Average throughput: 966.05 Mbit/s

95th percentile per-packet one-way delay: 119.550 ms

Loss rate: 1.44%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-01-02 04:17:36

End at: 2018-01-02 04:18:07

Below is generated by plot.py at 2018-01-02 08:34:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 985.21 Mbit/s

95th percentile per-packet one-way delay: 93.078 ms

Loss rate: 0.39%

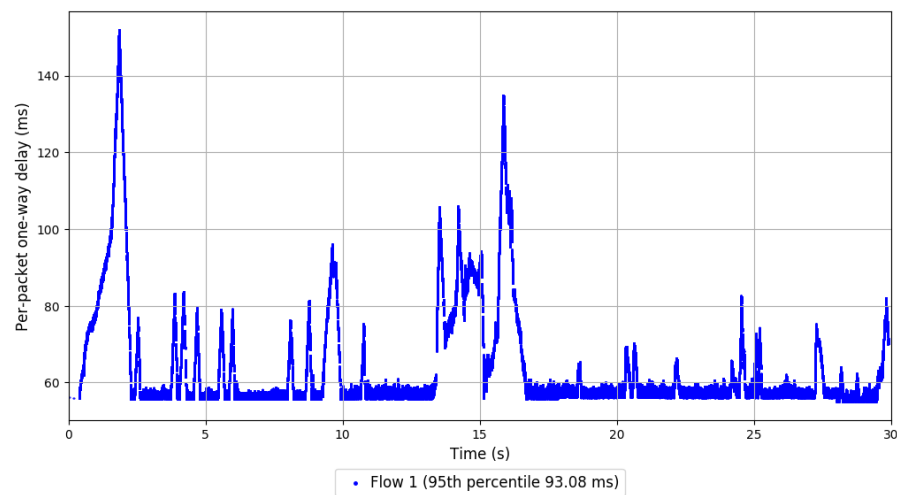
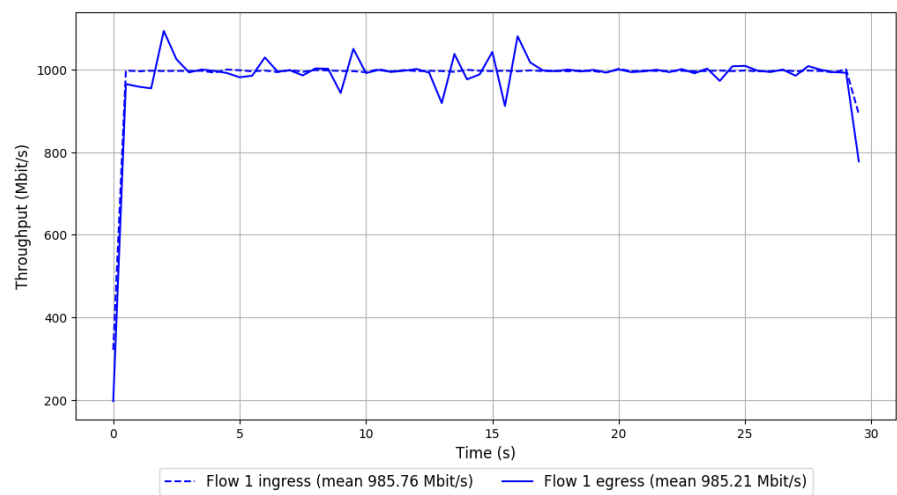
-- Flow 1:

Average throughput: 985.21 Mbit/s

95th percentile per-packet one-way delay: 93.078 ms

Loss rate: 0.39%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-01-02 04:29:23

End at: 2018-01-02 04:29:53

Below is generated by plot.py at 2018-01-02 08:34:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 975.37 Mbit/s

95th percentile per-packet one-way delay: 118.151 ms

Loss rate: 1.07%

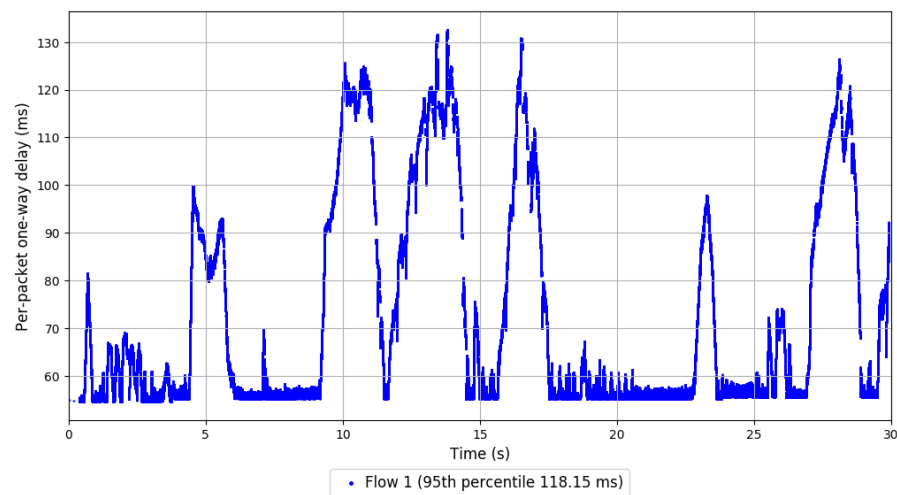
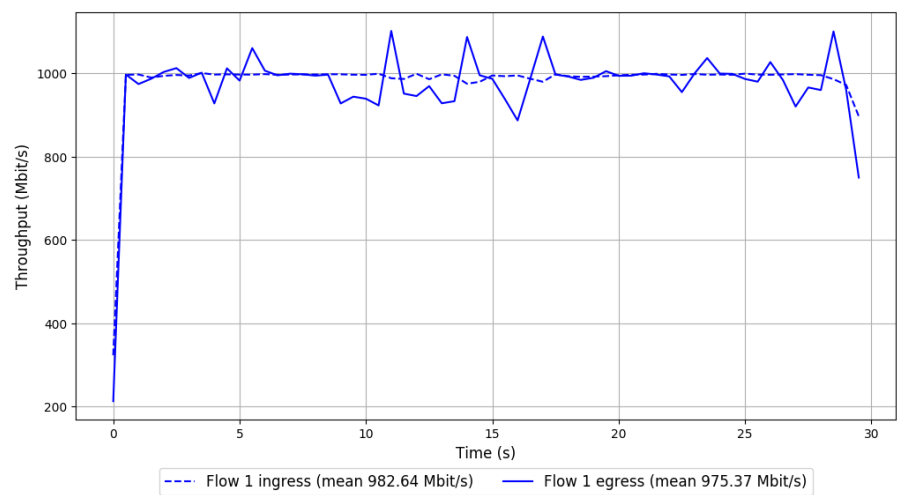
-- Flow 1:

Average throughput: 975.37 Mbit/s

95th percentile per-packet one-way delay: 118.151 ms

Loss rate: 1.07%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-01-02 04:41:09

End at: 2018-01-02 04:41:39

Below is generated by plot.py at 2018-01-02 08:34:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 909.85 Mbit/s

95th percentile per-packet one-way delay: 129.406 ms

Loss rate: 4.94%

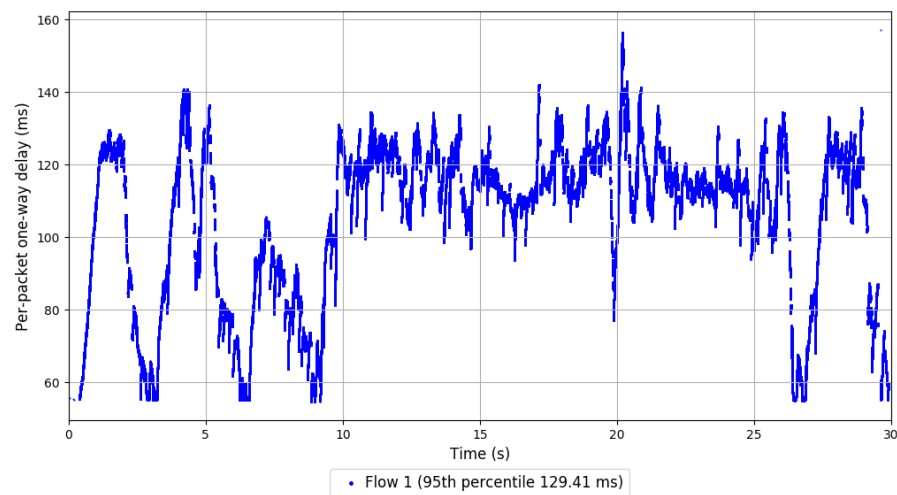
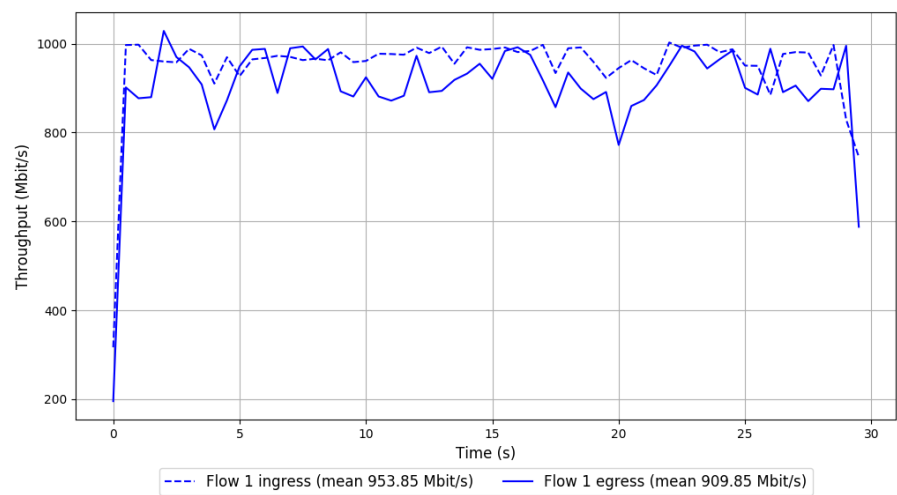
-- Flow 1:

Average throughput: 909.85 Mbit/s

95th percentile per-packet one-way delay: 129.406 ms

Loss rate: 4.94%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-01-02 04:52:49

End at: 2018-01-02 04:53:19

Below is generated by plot.py at 2018-01-02 08:34:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 931.75 Mbit/s

95th percentile per-packet one-way delay: 126.115 ms

Loss rate: 3.00%

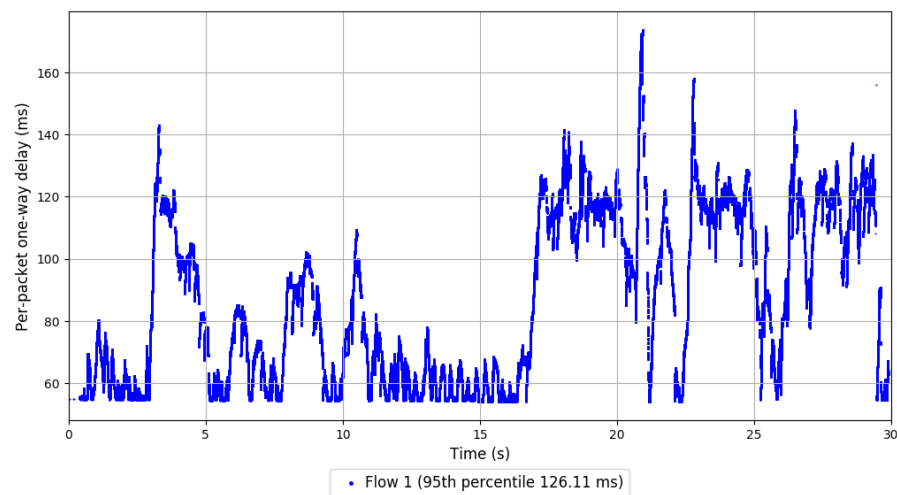
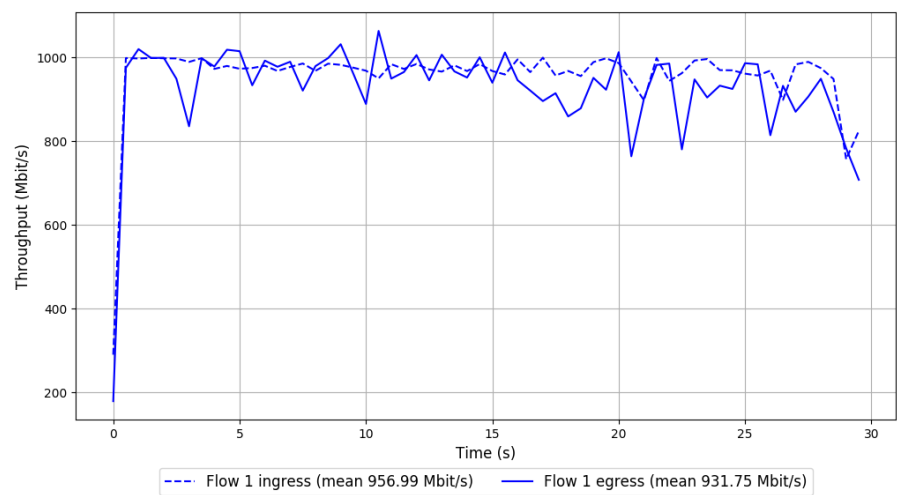
-- Flow 1:

Average throughput: 931.75 Mbit/s

95th percentile per-packet one-way delay: 126.115 ms

Loss rate: 3.00%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-01-02 05:04:34

End at: 2018-01-02 05:05:04

Below is generated by plot.py at 2018-01-02 08:35:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 963.14 Mbit/s

95th percentile per-packet one-way delay: 111.994 ms

Loss rate: 1.40%

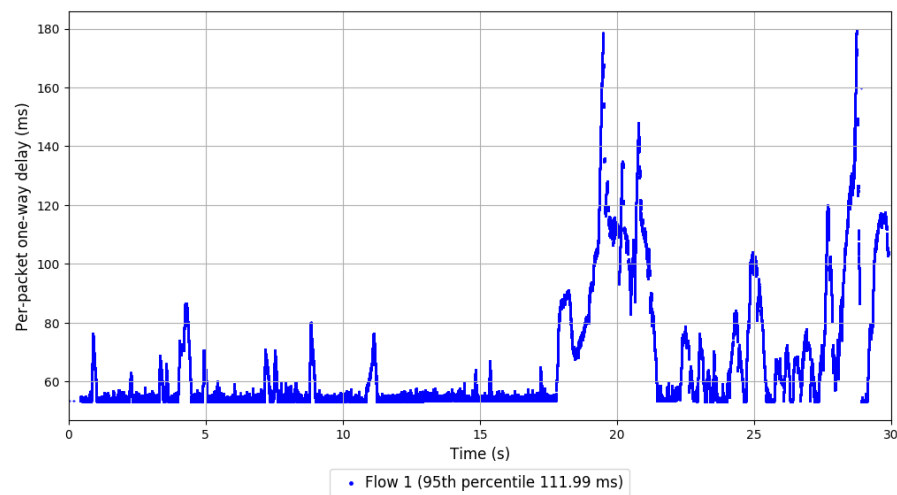
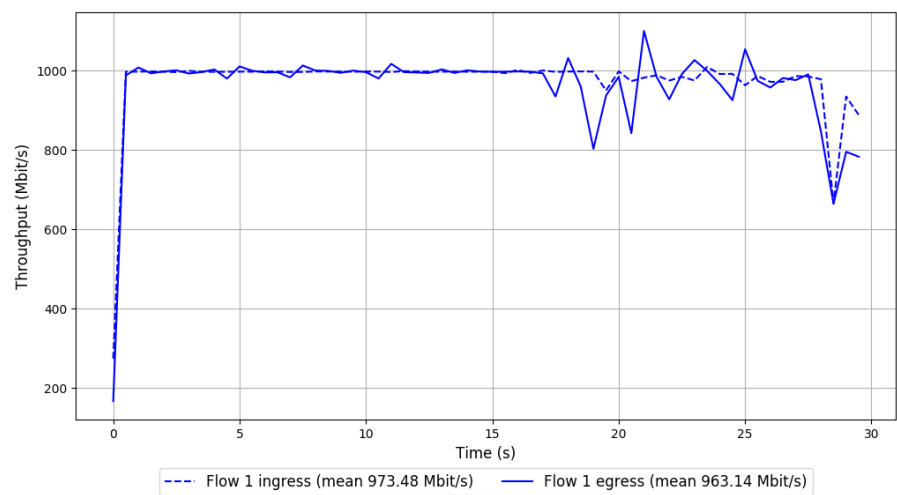
-- Flow 1:

Average throughput: 963.14 Mbit/s

95th percentile per-packet one-way delay: 111.994 ms

Loss rate: 1.40%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-01-02 05:16:13

End at: 2018-01-02 05:16:43

Below is generated by plot.py at 2018-01-02 08:39:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 533.85 Mbit/s

95th percentile per-packet one-way delay: 131.403 ms

Loss rate: 4.89%

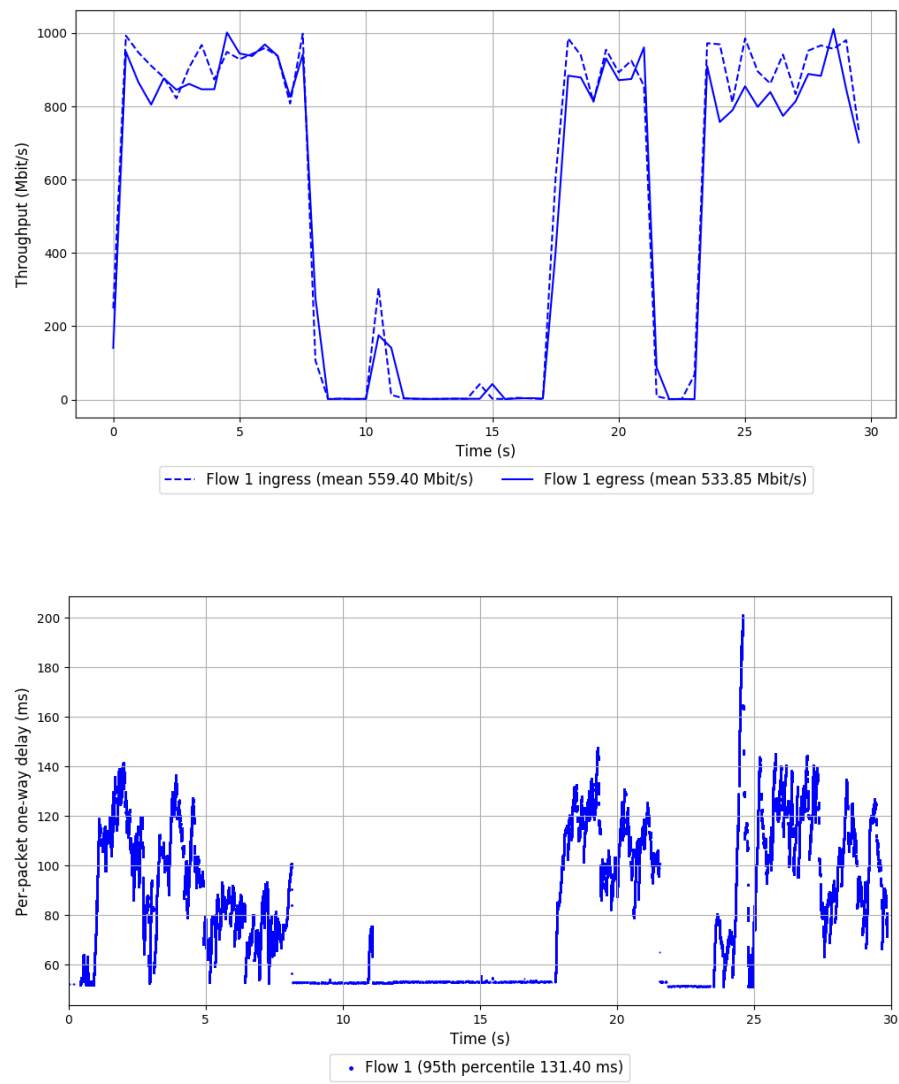
-- Flow 1:

Average throughput: 533.85 Mbit/s

95th percentile per-packet one-way delay: 131.403 ms

Loss rate: 4.89%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-01-02 05:27:40

End at: 2018-01-02 05:28:10

Below is generated by plot.py at 2018-01-02 08:39:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 246.38 Mbit/s

95th percentile per-packet one-way delay: 112.170 ms

Loss rate: 0.81%

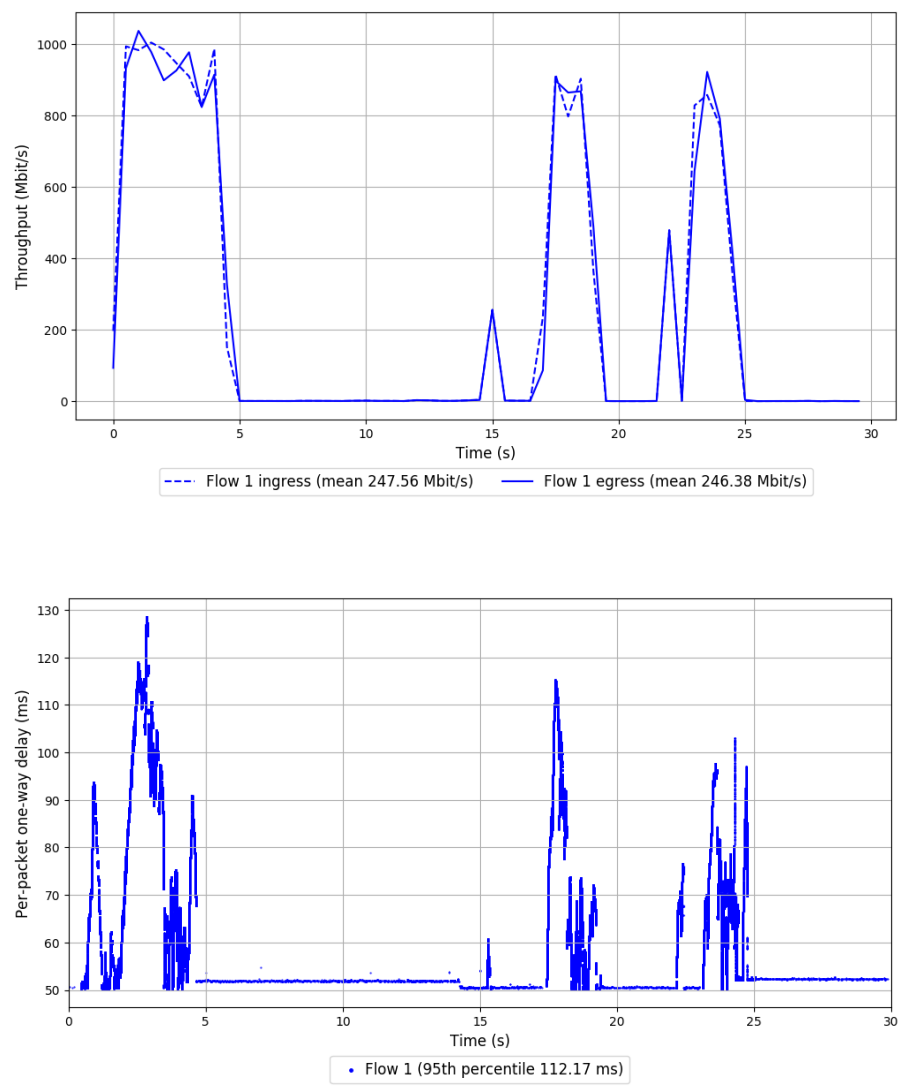
-- Flow 1:

Average throughput: 246.38 Mbit/s

95th percentile per-packet one-way delay: 112.170 ms

Loss rate: 0.81%

Run 10: Report of FillP — Data Link

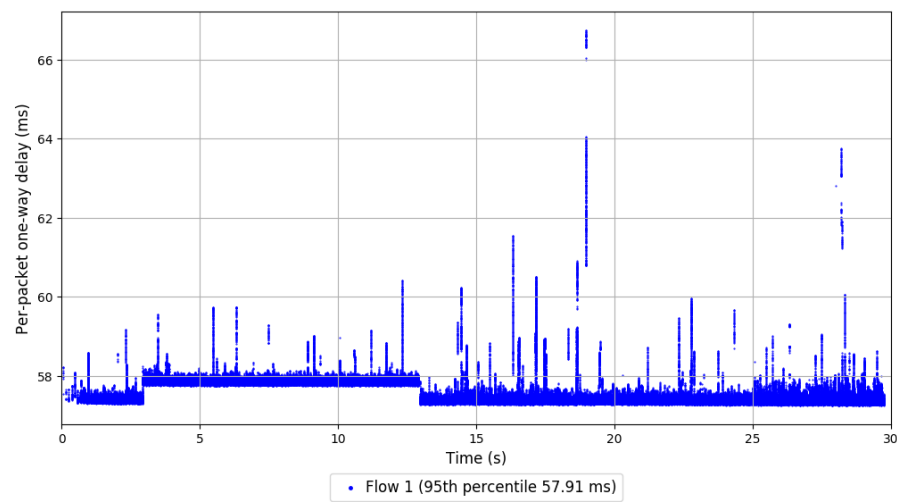
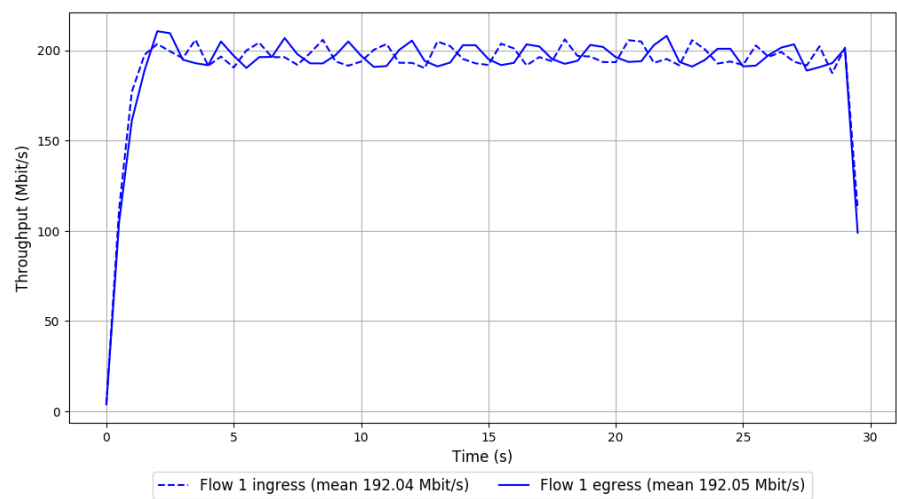


```
Run 1: Statistics of Indigo

Start at: 2018-01-02 03:48:44
End at: 2018-01-02 03:49:14

# Below is generated by plot.py at 2018-01-02 08:39:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 192.05 Mbit/s
95th percentile per-packet one-way delay: 57.911 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 192.05 Mbit/s
95th percentile per-packet one-way delay: 57.911 ms
Loss rate: 0.33%
```

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2018-01-02 04:00:31

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

Below is generated by plot.py at 2018-01-02 08:39:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 187.98 Mbit/s

95th percentile per-packet one-way delay: 56.697 ms

Loss rate: 0.53%

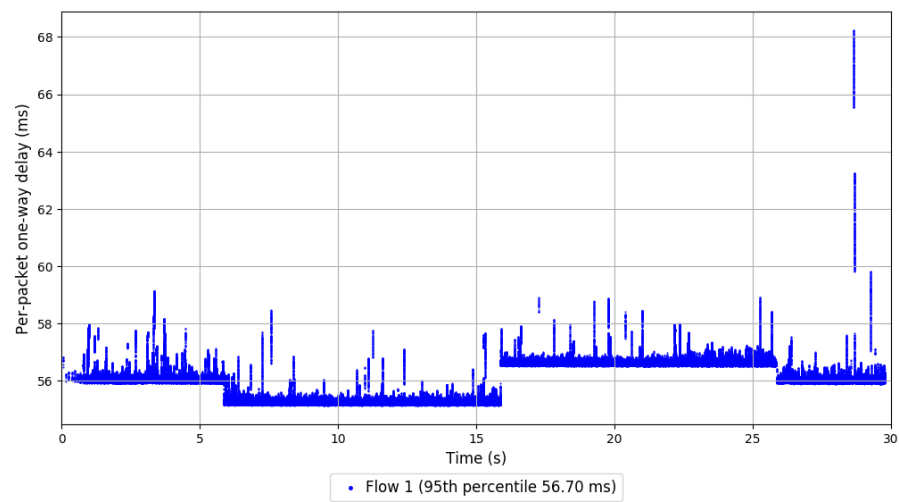
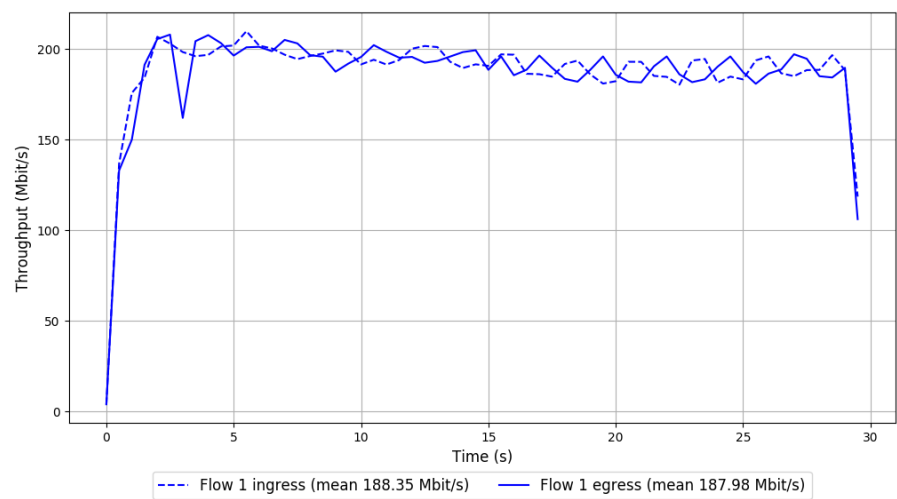
-- Flow 1:

Average throughput: 187.98 Mbit/s

95th percentile per-packet one-way delay: 56.697 ms

Loss rate: 0.53%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2018-01-02 04:12:16

End at: 2018-01-02 04:12:46

Below is generated by plot.py at 2018-01-02 08:39:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 187.03 Mbit/s

95th percentile per-packet one-way delay: 56.212 ms

Loss rate: 0.87%

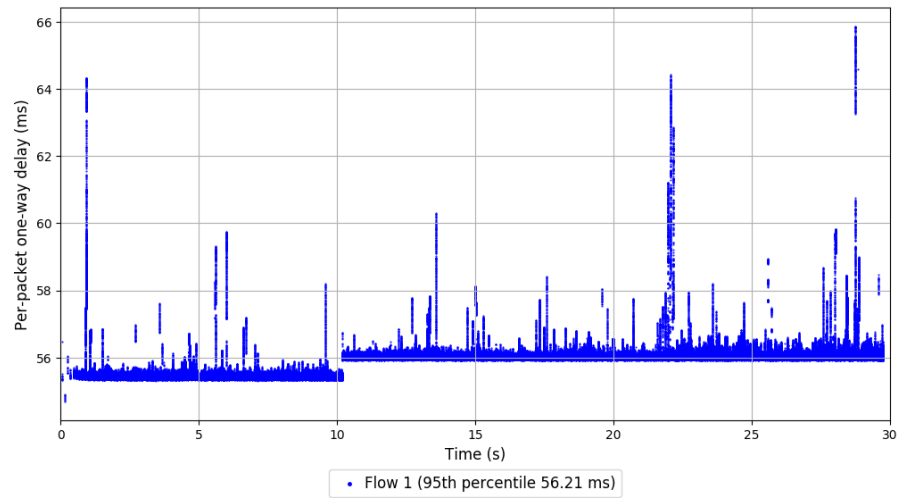
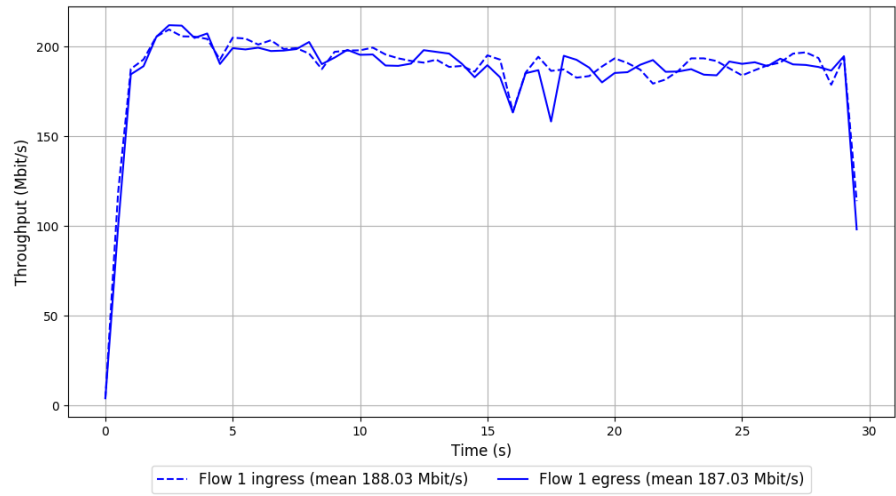
-- Flow 1:

Average throughput: 187.03 Mbit/s

95th percentile per-packet one-way delay: 56.212 ms

Loss rate: 0.87%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2018-01-02 04:24:00

End at: 2018-01-02 04:24:30

Below is generated by plot.py at 2018-01-02 08:39:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 194.99 Mbit/s

95th percentile per-packet one-way delay: 55.981 ms

Loss rate: 0.50%

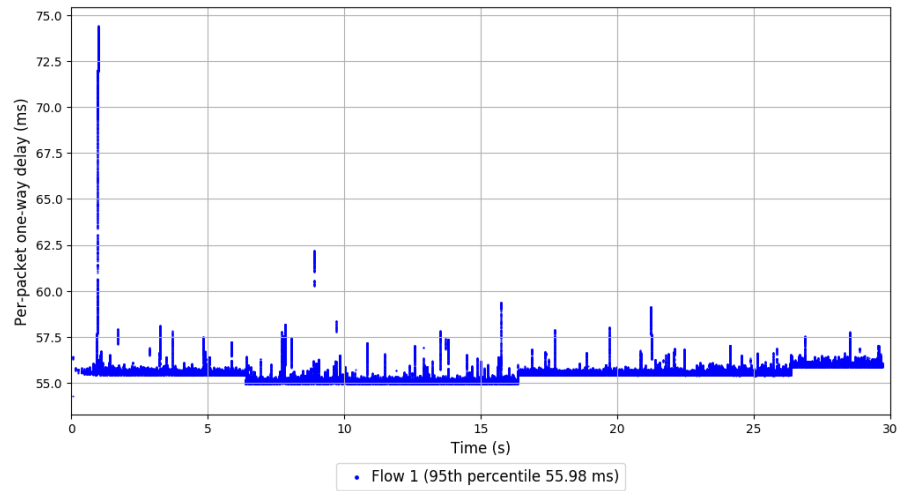
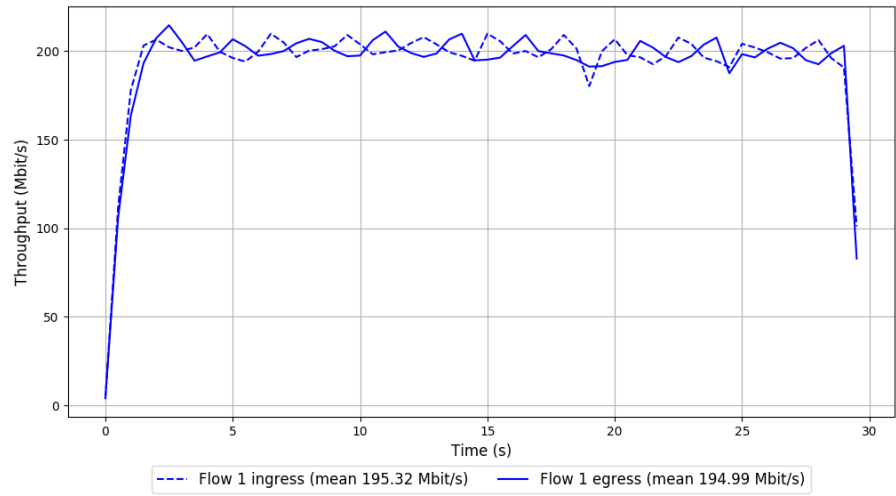
-- Flow 1:

Average throughput: 194.99 Mbit/s

95th percentile per-packet one-way delay: 55.981 ms

Loss rate: 0.50%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2018-01-02 04:35:49

End at: 2018-01-02 04:36:19

Below is generated by plot.py at 2018-01-02 08:39:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 184.00 Mbit/s

95th percentile per-packet one-way delay: 54.840 ms

Loss rate: 0.56%

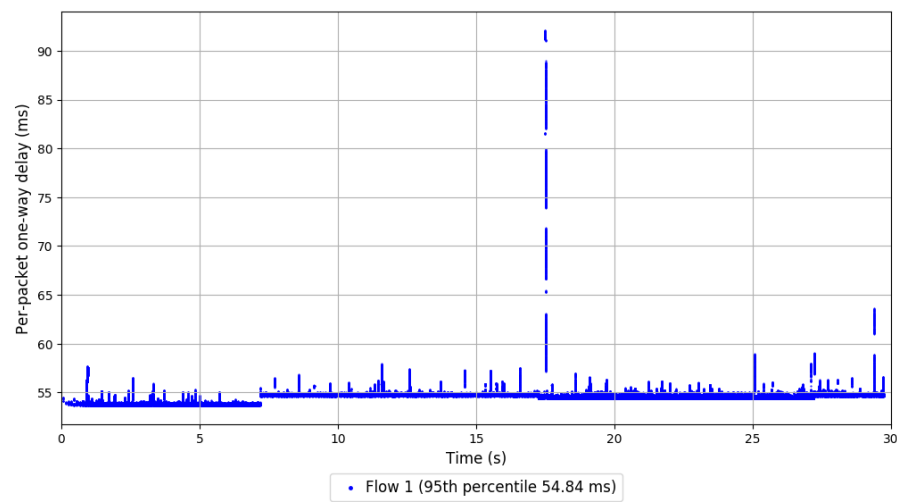
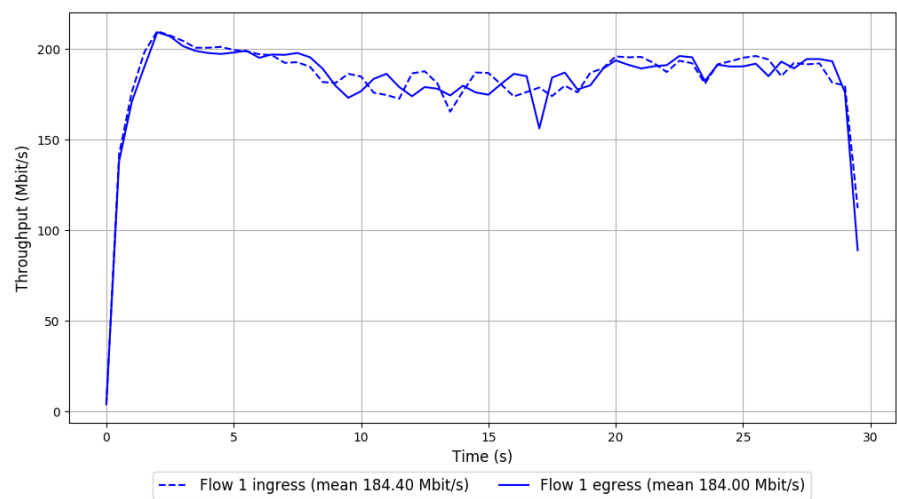
-- Flow 1:

Average throughput: 184.00 Mbit/s

95th percentile per-packet one-way delay: 54.840 ms

Loss rate: 0.56%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2018-01-02 04:47:30

End at: 2018-01-02 04:48:00

Below is generated by plot.py at 2018-01-02 08:39:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 188.66 Mbit/s

95th percentile per-packet one-way delay: 55.002 ms

Loss rate: 0.51%

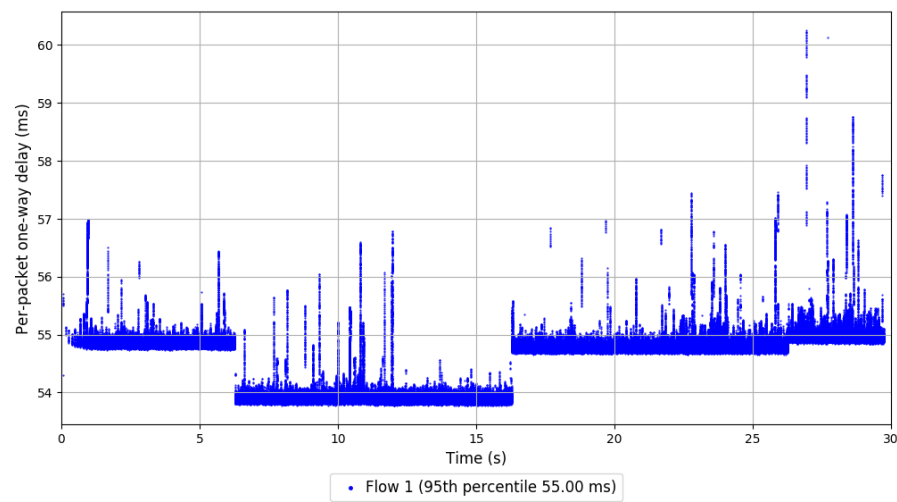
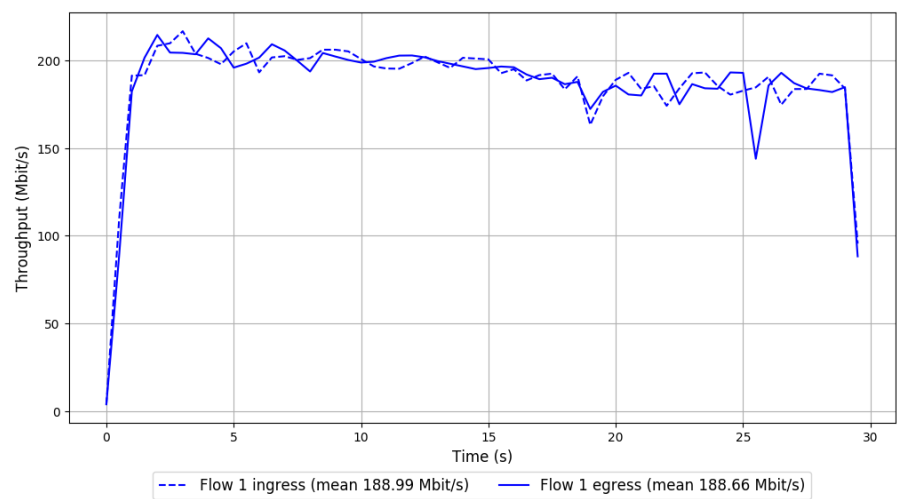
-- Flow 1:

Average throughput: 188.66 Mbit/s

95th percentile per-packet one-way delay: 55.002 ms

Loss rate: 0.51%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2018-01-02 04:59:12

End at: 2018-01-02 04:59:42

Below is generated by plot.py at 2018-01-02 08:39:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 191.49 Mbit/s

95th percentile per-packet one-way delay: 54.328 ms

Loss rate: 0.45%

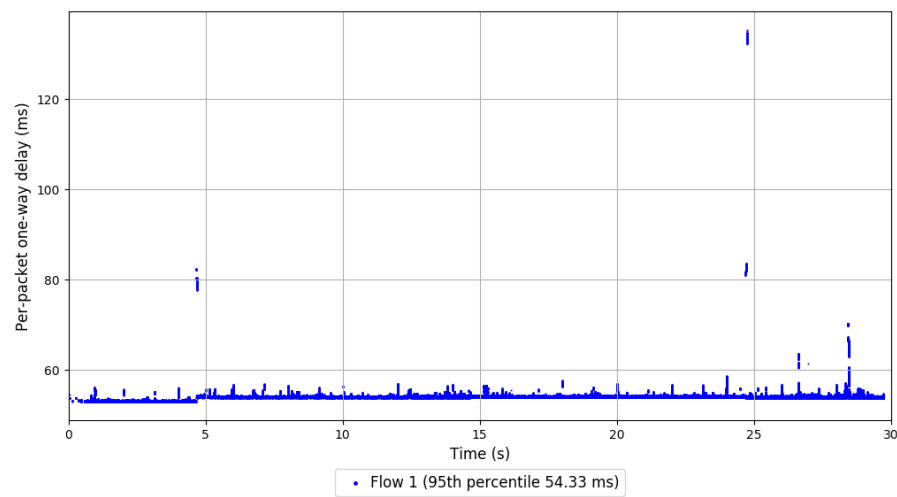
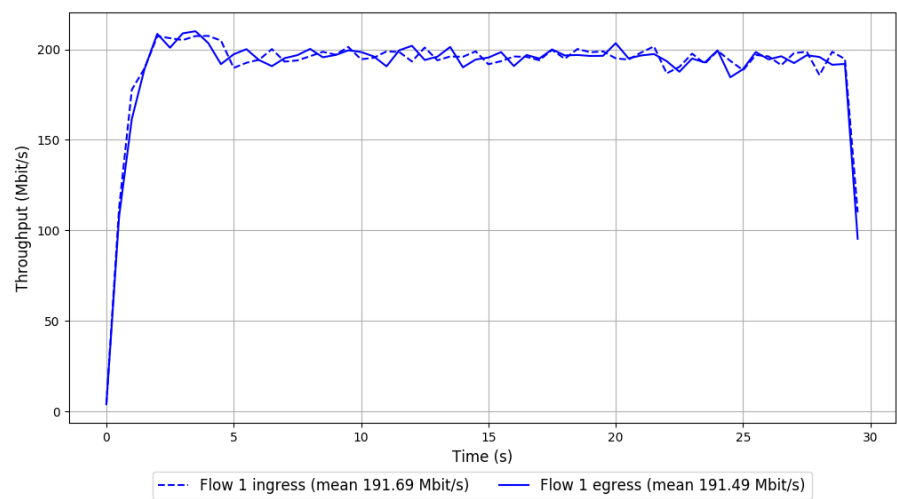
-- Flow 1:

Average throughput: 191.49 Mbit/s

95th percentile per-packet one-way delay: 54.328 ms

Loss rate: 0.45%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2018-01-02 05:10:58

End at: 2018-01-02 05:11:28

Below is generated by plot.py at 2018-01-02 08:39:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 190.70 Mbit/s

95th percentile per-packet one-way delay: 53.423 ms

Loss rate: 0.60%

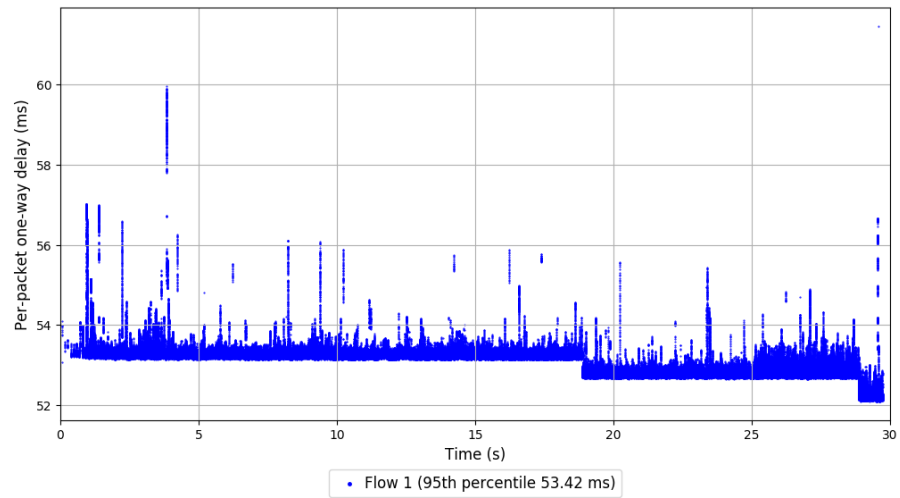
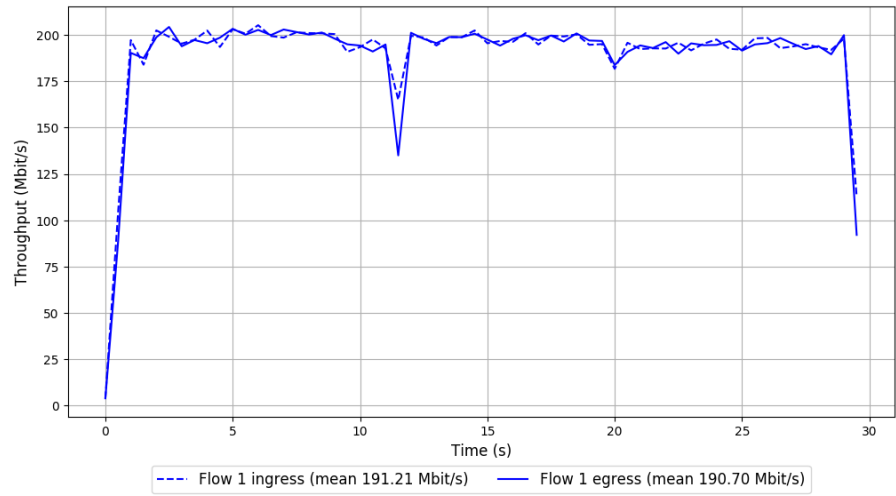
-- Flow 1:

Average throughput: 190.70 Mbit/s

95th percentile per-packet one-way delay: 53.423 ms

Loss rate: 0.60%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2018-01-02 05:22:20

End at: 2018-01-02 05:22:50

Below is generated by plot.py at 2018-01-02 08:39:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 179.75 Mbit/s

95th percentile per-packet one-way delay: 51.642 ms

Loss rate: 0.54%

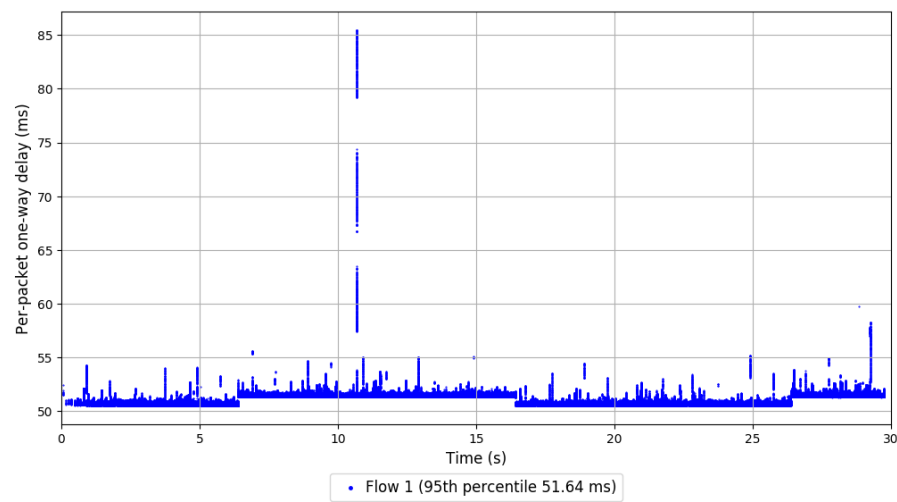
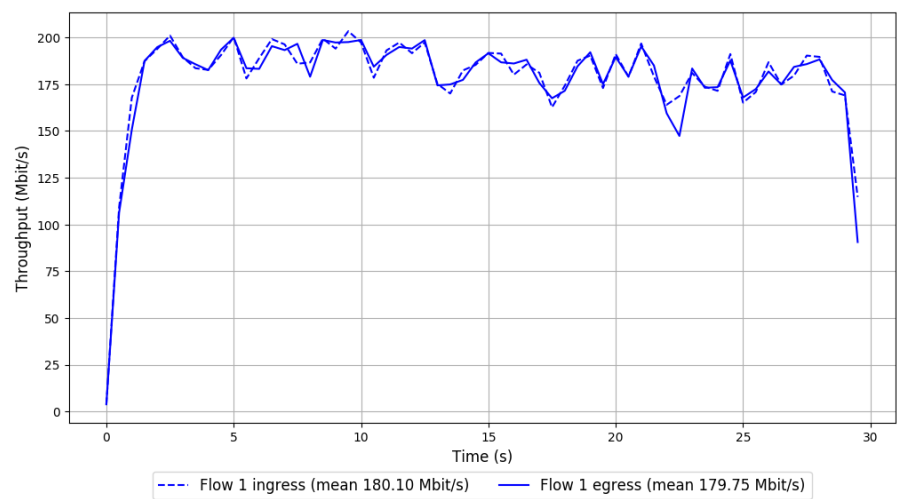
-- Flow 1:

Average throughput: 179.75 Mbit/s

95th percentile per-packet one-way delay: 51.642 ms

Loss rate: 0.54%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2018-01-02 05:33:38

End at: 2018-01-02 05:34:08

Below is generated by plot.py at 2018-01-02 08:39:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 171.62 Mbit/s

95th percentile per-packet one-way delay: 52.344 ms

Loss rate: 0.56%

-- Flow 1:

Average throughput: 171.62 Mbit/s

95th percentile per-packet one-way delay: 52.344 ms

Loss rate: 0.56%

Run 10: Report of Indigo — Data Link

