

Pantheon Report

Generated at 2018-01-09 05:34:23 (UTC).

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

Repeated the test of 14 congestion control schemes 10 times.

Each test lasted for 30 seconds running 1 flow.

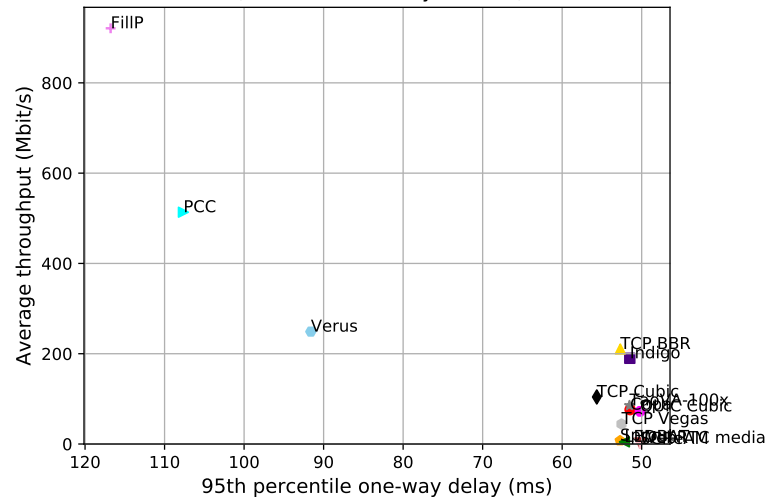
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

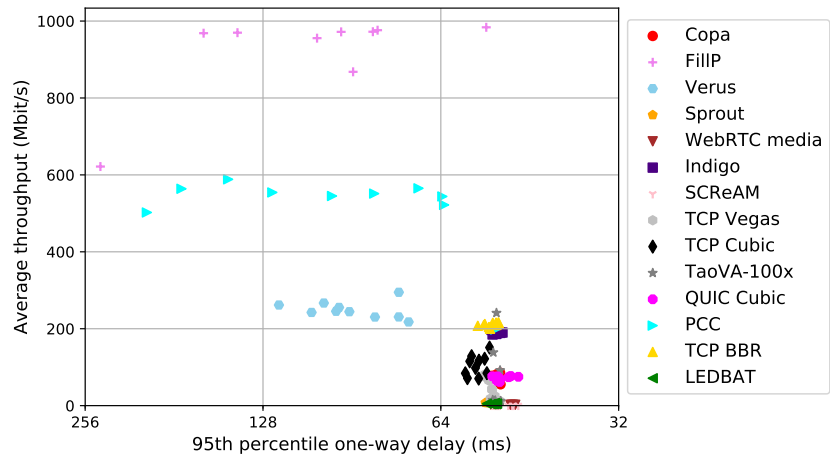
Git summary:

```
branch: master @ 56d1792c316a5efca3f2d21342905405fedffb48
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ ec9585325218d5048c4d4152fa42240af54c6e67
third_party/genericCC @ 80b516c448f795fd6e9675f7177b69c622f07da8
third_party/indigo @ b19f3730105f9aa95452552af924e3719b03cc55
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
  M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ fb1053193c2861da659ba9013db26744ccfcf993
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
  M receiver/src/buffer.h
  M receiver/src/core.cpp
  M sender/src/buffer.h
  M sender/src/core.cpp
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eaaeb30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
  M src/examples/cellsim.cc
  M src/examples/sproutbt2.cc
  M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/webrtc @ a488197ddd041ace68a42849b2540ad834825f42
```

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



test from GCE Tokyo Ethernet to GCE Sydney 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	210.47	52.69	0.32
TCP Cubic	10	104.21	55.65	0.64
LEDBAT	9	4.70	52.17	2.44
PCC	10	513.47	107.63	1.23
QUIC Cubic	10	72.29	50.20	0.43
SCReAM	10	0.21	50.22	0.37
WebRTC media	10	2.28	50.22	0.39
Sprout	10	7.54	52.73	0.98
TaoVA-100x	6	85.29	51.54	0.35
TCP Vegas	10	44.33	52.54	0.79
Verus	10	248.94	91.61	0.72
Copa	10	76.16	51.46	0.54
FillP	9	920.87	116.78	0.83
Indigo	10	189.90	51.50	0.41

Run 1: Statistics of TCP BBR

Start at: 2018-01-09 00:57:46

End at: 2018-01-09 00:58:16

Below is generated by plot.py at 2018-01-09 04:45:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 213.12 Mbit/s

95th percentile per-packet one-way delay: 51.041 ms

Loss rate: 0.02%

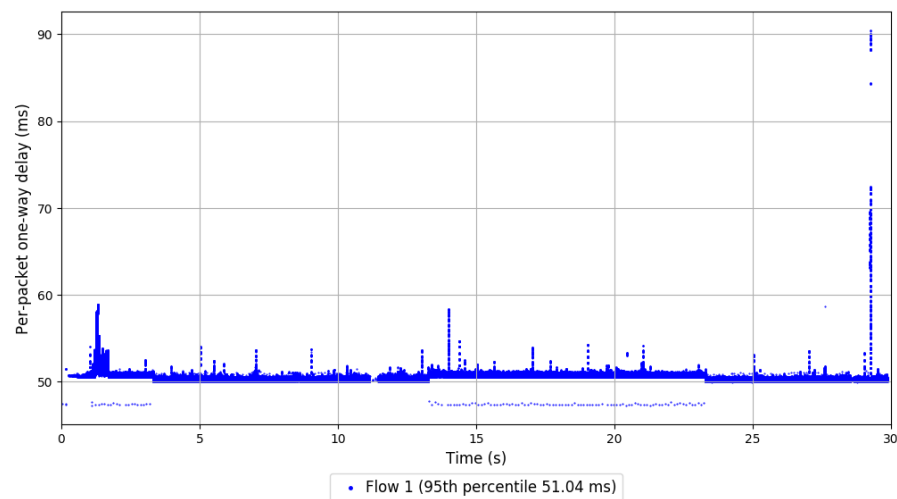
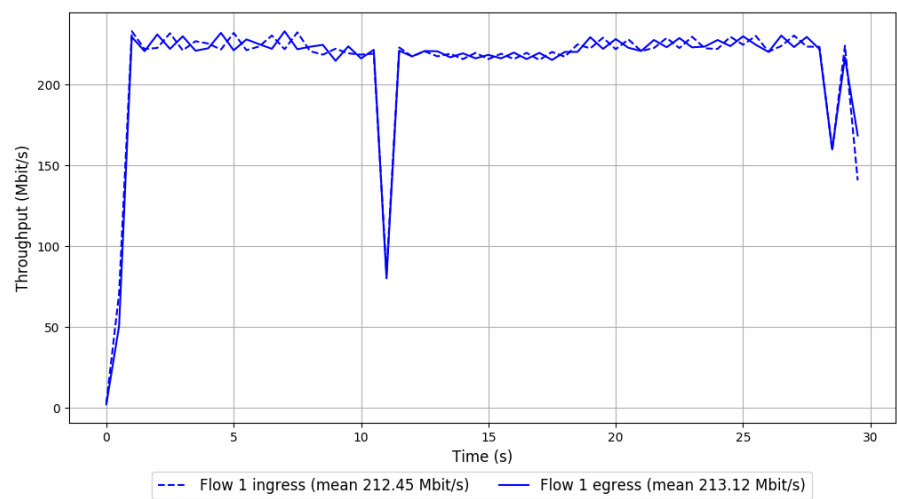
-- Flow 1:

Average throughput: 213.12 Mbit/s

95th percentile per-packet one-way delay: 51.041 ms

Loss rate: 0.02%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

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

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

Below is generated by plot.py at 2018-01-09 04:45:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 216.64 Mbit/s

95th percentile per-packet one-way delay: 51.124 ms

Loss rate: 0.41%

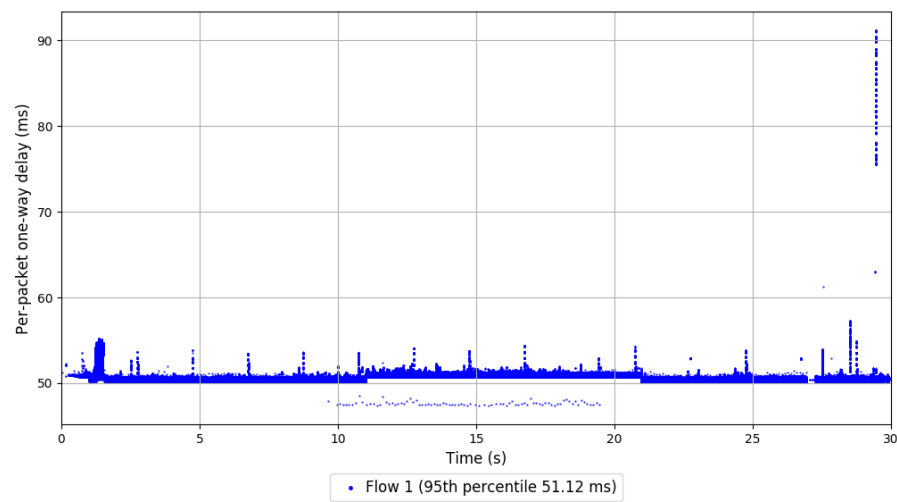
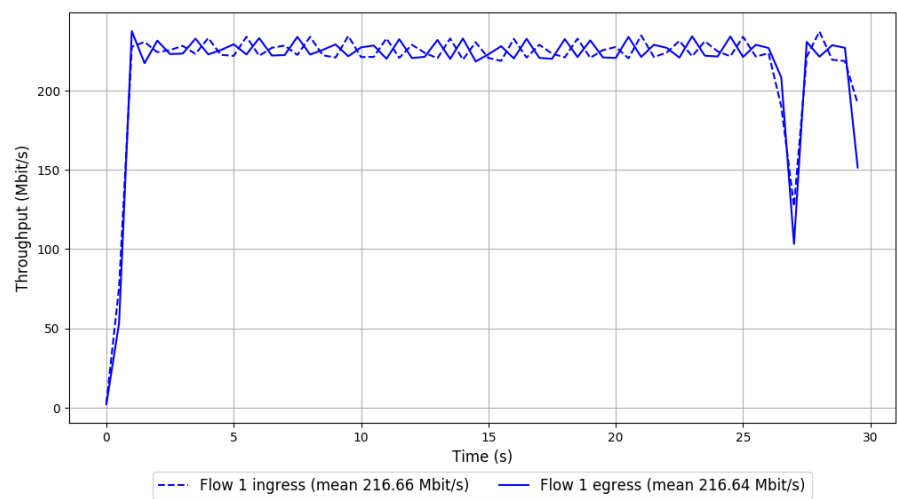
-- Flow 1:

Average throughput: 216.64 Mbit/s

95th percentile per-packet one-way delay: 51.124 ms

Loss rate: 0.41%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-01-09 01:20:52

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

Below is generated by plot.py at 2018-01-09 04:45:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 209.82 Mbit/s

95th percentile per-packet one-way delay: 51.515 ms

Loss rate: 0.43%

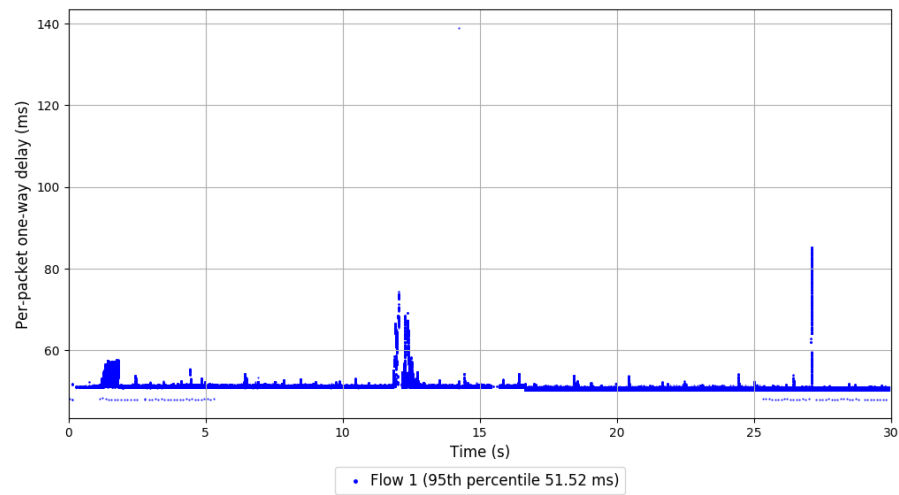
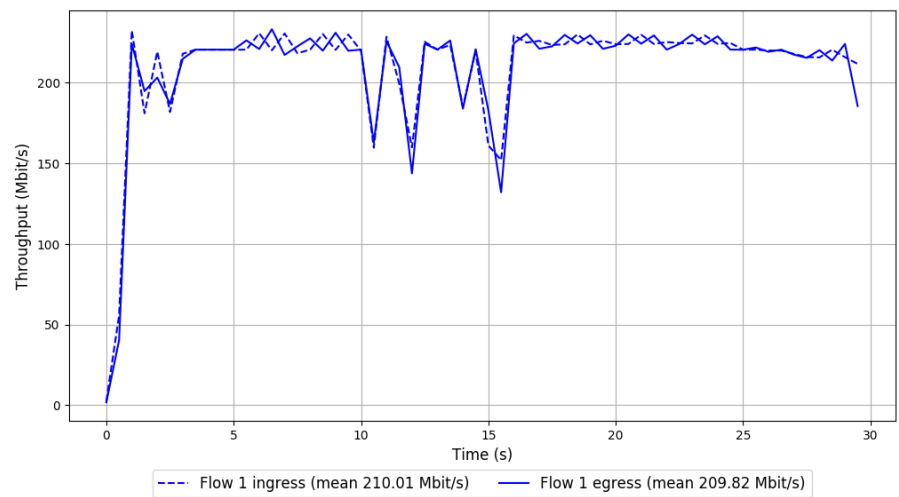
-- Flow 1:

Average throughput: 209.82 Mbit/s

95th percentile per-packet one-way delay: 51.515 ms

Loss rate: 0.43%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-01-09 01:32:12

End at: 2018-01-09 01:32:43

Below is generated by plot.py at 2018-01-09 04:45:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 215.78 Mbit/s

95th percentile per-packet one-way delay: 51.603 ms

Loss rate: 0.36%

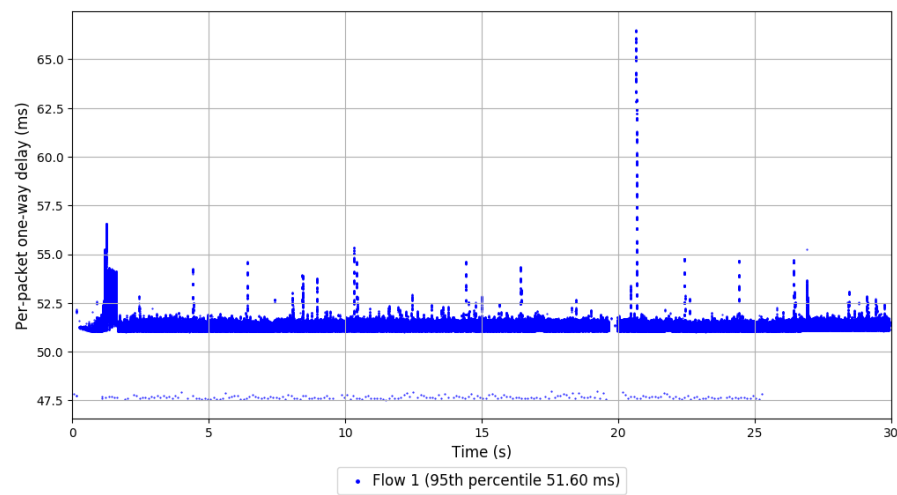
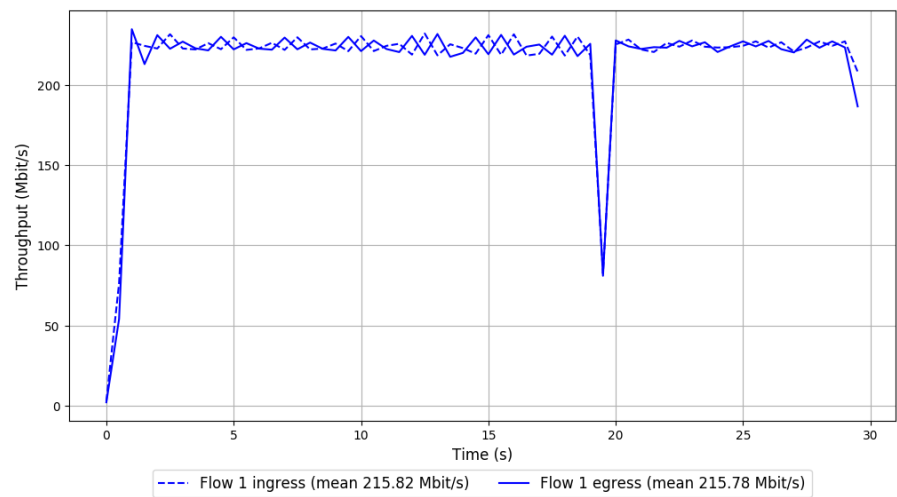
-- Flow 1:

Average throughput: 215.78 Mbit/s

95th percentile per-packet one-way delay: 51.603 ms

Loss rate: 0.36%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-01-09 01:43:33

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

Below is generated by plot.py at 2018-01-09 04:45:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 215.41 Mbit/s

95th percentile per-packet one-way delay: 52.271 ms

Loss rate: 0.36%

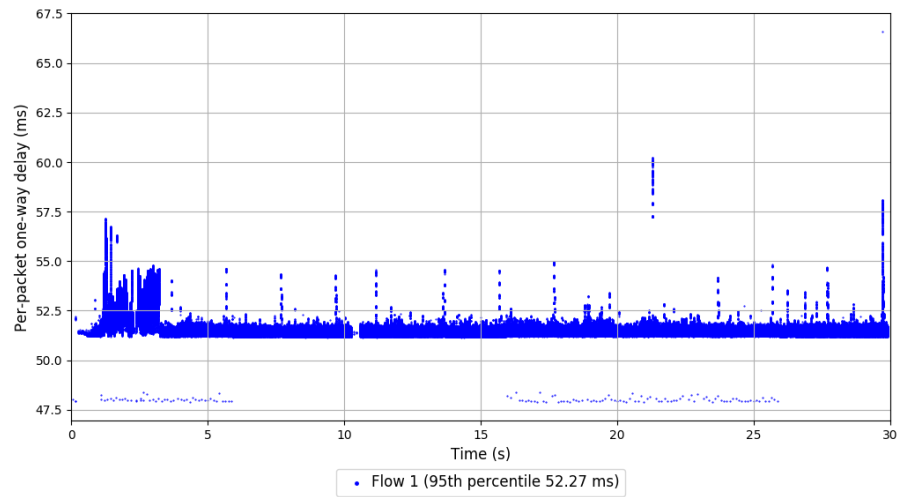
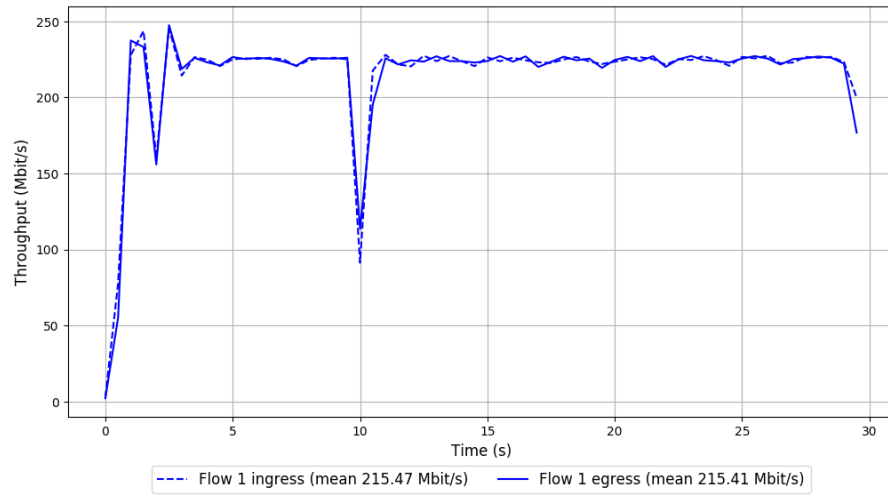
-- Flow 1:

Average throughput: 215.41 Mbit/s

95th percentile per-packet one-way delay: 52.271 ms

Loss rate: 0.36%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

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

End at: 2018-01-09 01:55:50

Below is generated by plot.py at 2018-01-09 04:45:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 212.35 Mbit/s

95th percentile per-packet one-way delay: 53.915 ms

Loss rate: 0.39%

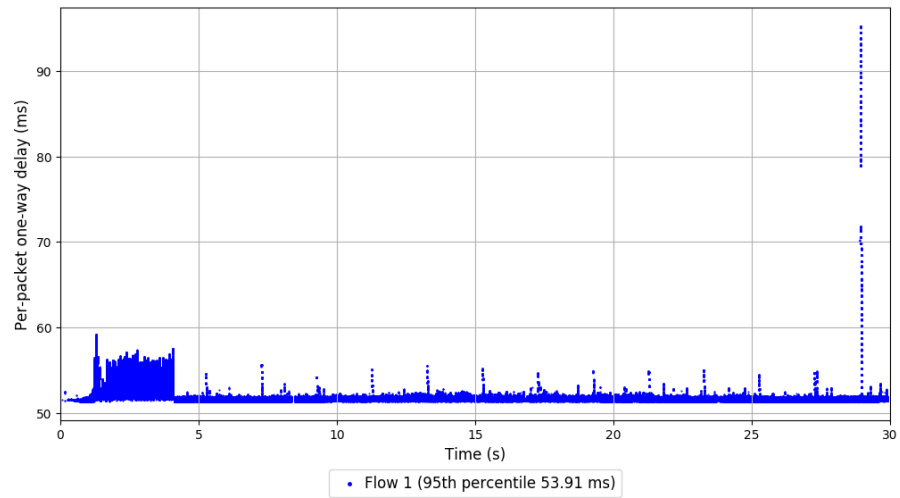
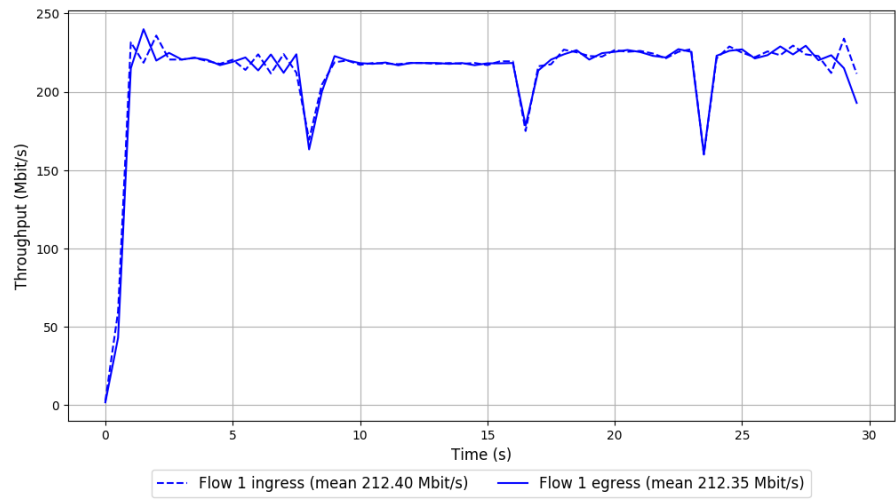
-- Flow 1:

Average throughput: 212.35 Mbit/s

95th percentile per-packet one-way delay: 53.915 ms

Loss rate: 0.39%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-01-09 02:06:41

End at: 2018-01-09 02:07:11

Below is generated by plot.py at 2018-01-09 04:45:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 209.50 Mbit/s

95th percentile per-packet one-way delay: 54.140 ms

Loss rate: 0.01%

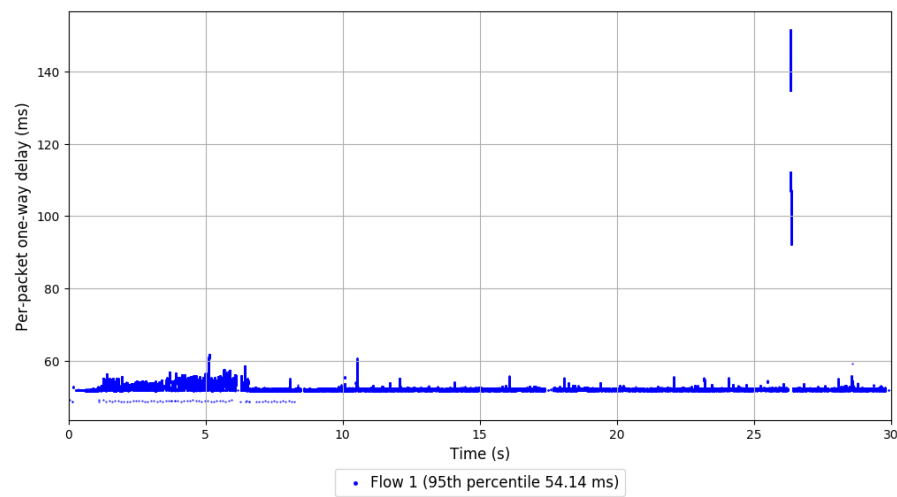
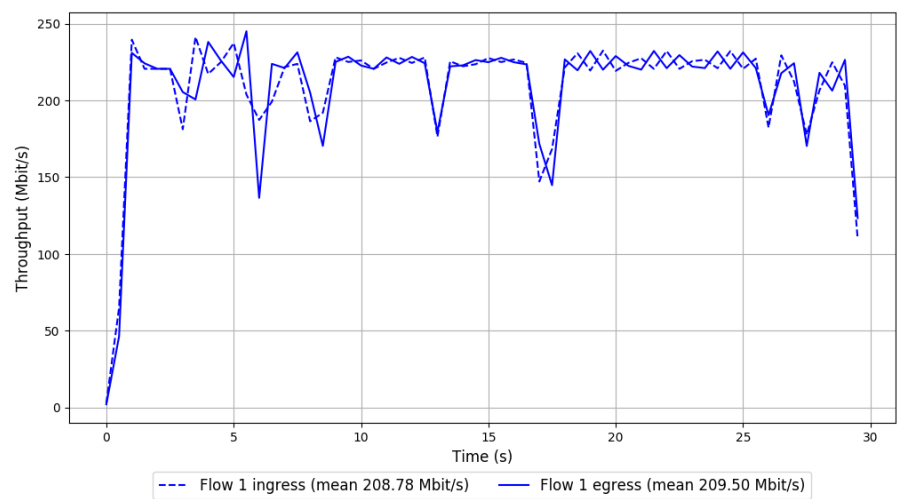
-- Flow 1:

Average throughput: 209.50 Mbit/s

95th percentile per-packet one-way delay: 54.140 ms

Loss rate: 0.01%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-01-09 02:17:34

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

Below is generated by plot.py at 2018-01-09 04:45:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 199.89 Mbit/s

95th percentile per-packet one-way delay: 52.837 ms

Loss rate: 0.40%

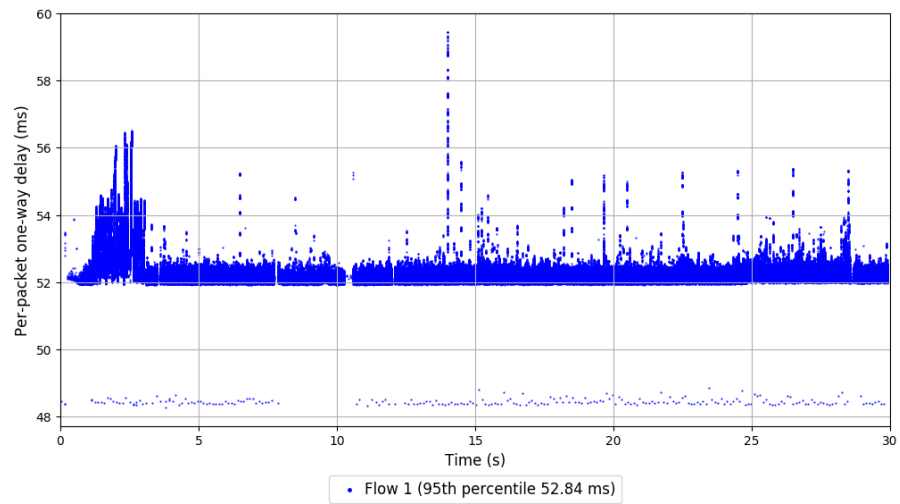
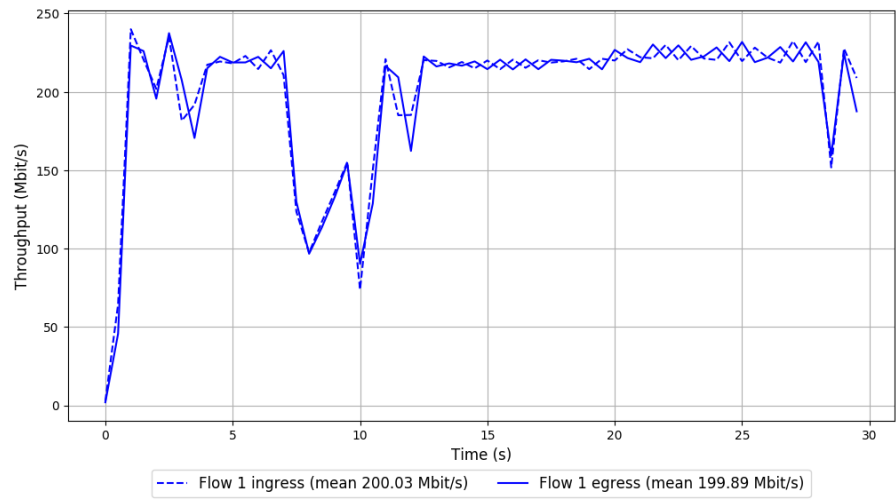
-- Flow 1:

Average throughput: 199.89 Mbit/s

95th percentile per-packet one-way delay: 52.837 ms

Loss rate: 0.40%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-01-09 02:28:43

End at: 2018-01-09 02:29:13

Below is generated by plot.py at 2018-01-09 04:48:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 207.66 Mbit/s

95th percentile per-packet one-way delay: 55.418 ms

Loss rate: 0.37%

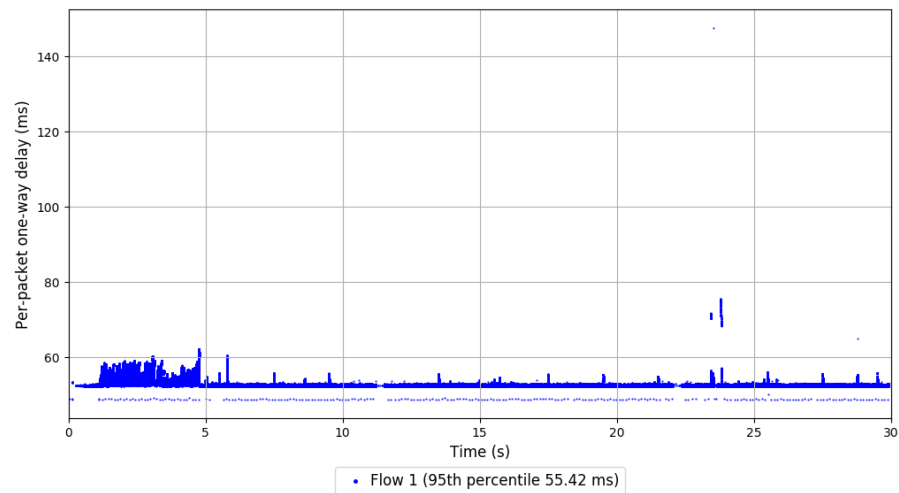
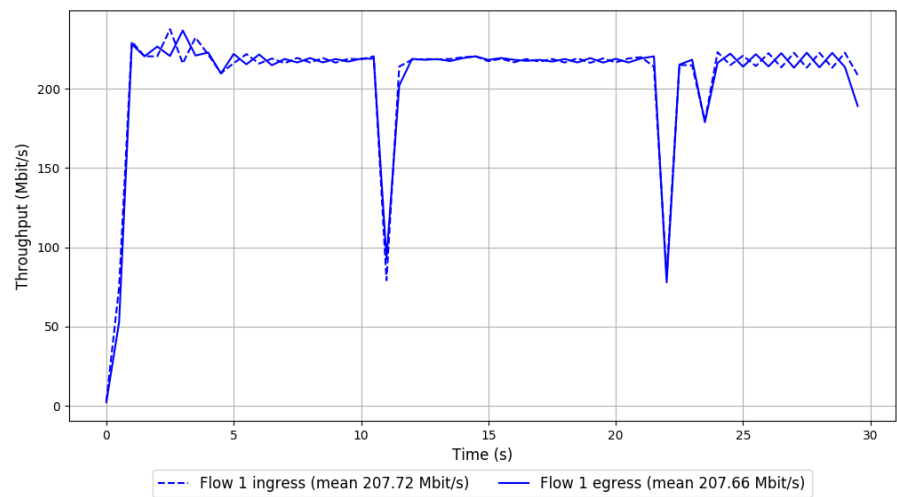
-- Flow 1:

Average throughput: 207.66 Mbit/s

95th percentile per-packet one-way delay: 55.418 ms

Loss rate: 0.37%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-01-09 02:40:15

End at: 2018-01-09 02:40:45

Below is generated by plot.py at 2018-01-09 04:48:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 204.52 Mbit/s

95th percentile per-packet one-way delay: 53.048 ms

Loss rate: 0.40%

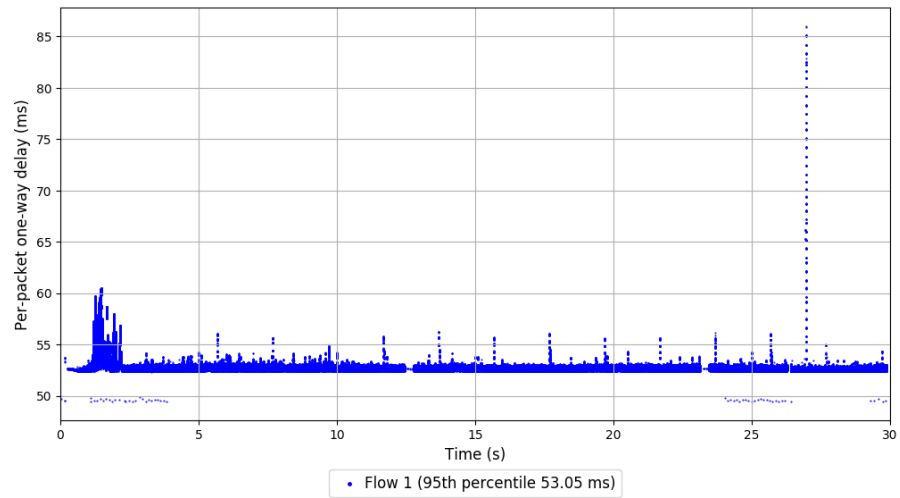
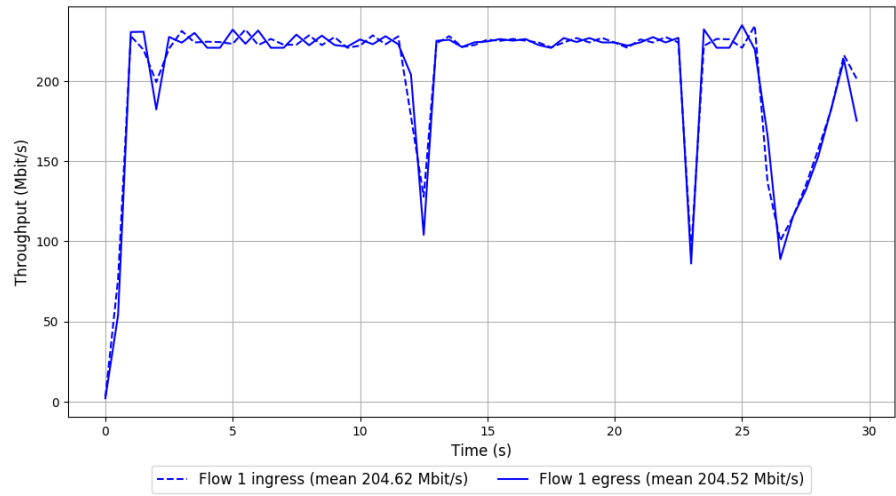
-- Flow 1:

Average throughput: 204.52 Mbit/s

95th percentile per-packet one-way delay: 53.048 ms

Loss rate: 0.40%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-01-09 00:56:06

End at: 2018-01-09 00:56:36

Below is generated by plot.py at 2018-01-09 04:48:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 115.25 Mbit/s

95th percentile per-packet one-way delay: 57.186 ms

Loss rate: 0.31%

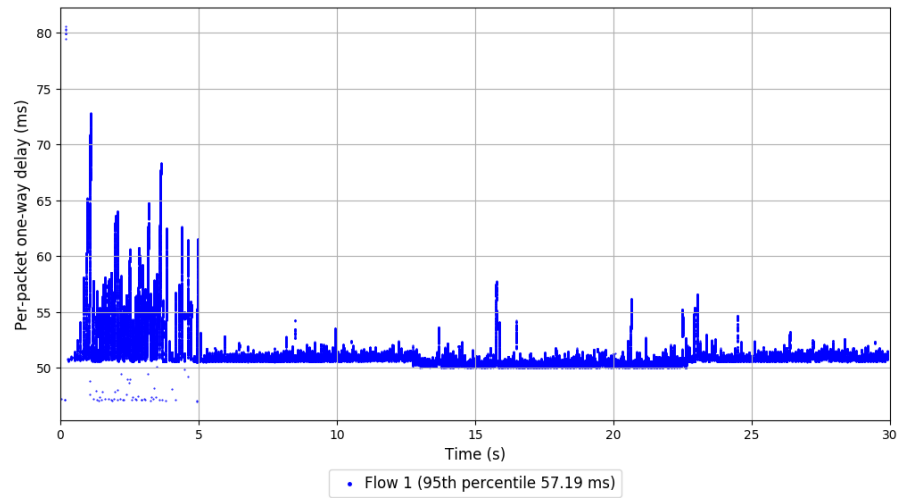
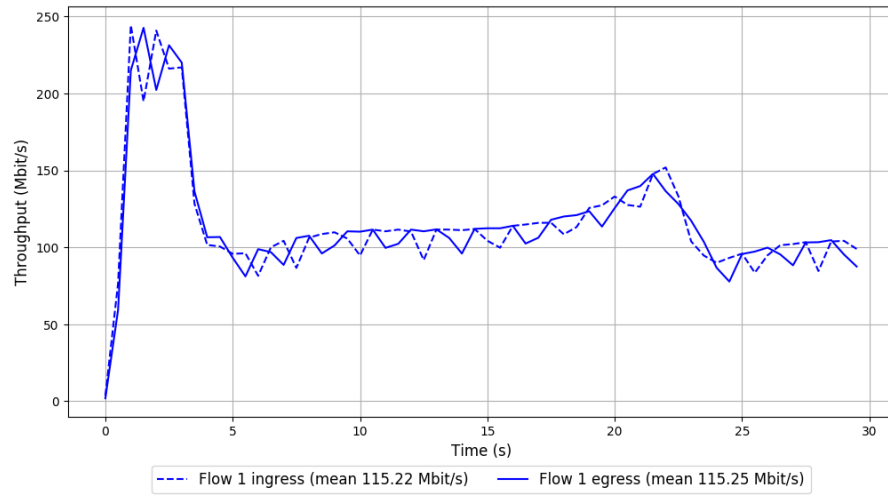
-- Flow 1:

Average throughput: 115.25 Mbit/s

95th percentile per-packet one-way delay: 57.186 ms

Loss rate: 0.31%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-01-09 01:07:50

End at: 2018-01-09 01:08:20

Below is generated by plot.py at 2018-01-09 04:48:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 151.02 Mbit/s

95th percentile per-packet one-way delay: 52.927 ms

Loss rate: 0.56%

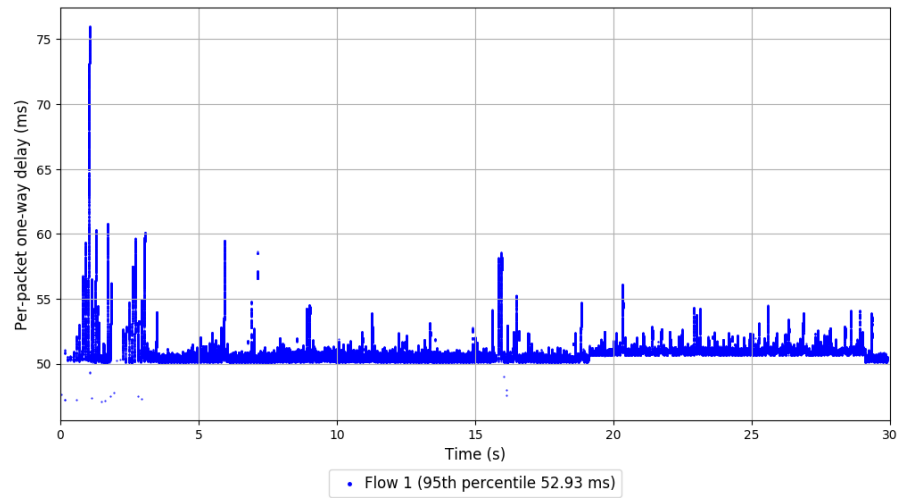
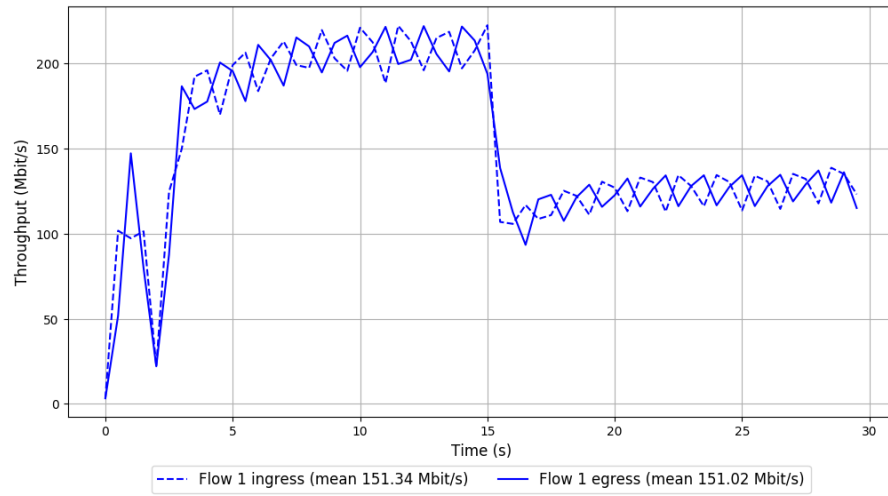
-- Flow 1:

Average throughput: 151.02 Mbit/s

95th percentile per-packet one-way delay: 52.927 ms

Loss rate: 0.56%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-01-09 01:19:17

End at: 2018-01-09 01:19:47

Below is generated by plot.py at 2018-01-09 04:48:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 128.60 Mbit/s

95th percentile per-packet one-way delay: 56.766 ms

Loss rate: 0.47%

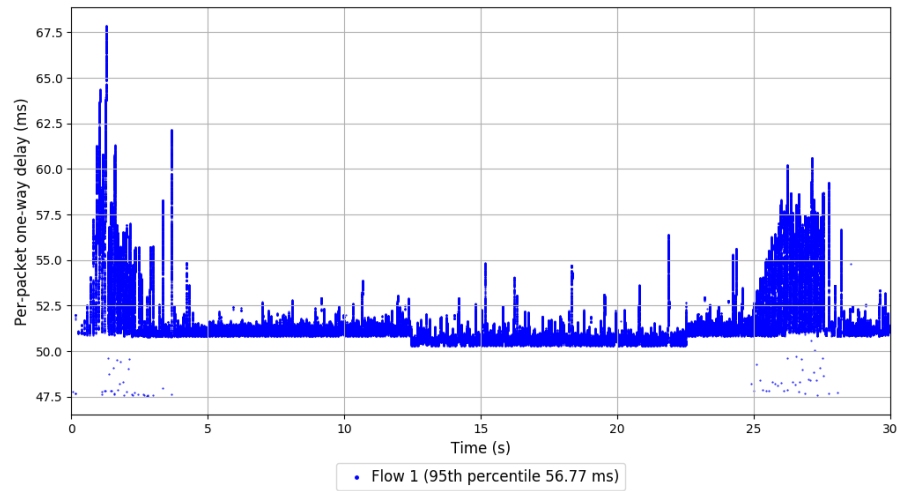
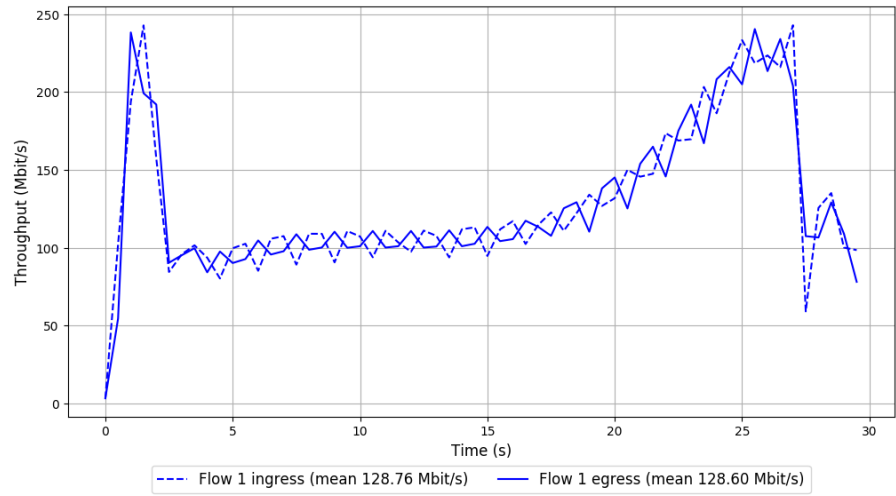
-- Flow 1:

Average throughput: 128.60 Mbit/s

95th percentile per-packet one-way delay: 56.766 ms

Loss rate: 0.47%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

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

End at: 2018-01-09 01:31:05

Below is generated by plot.py at 2018-01-09 04:48:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 116.94 Mbit/s

95th percentile per-packet one-way delay: 55.165 ms

Loss rate: 0.31%

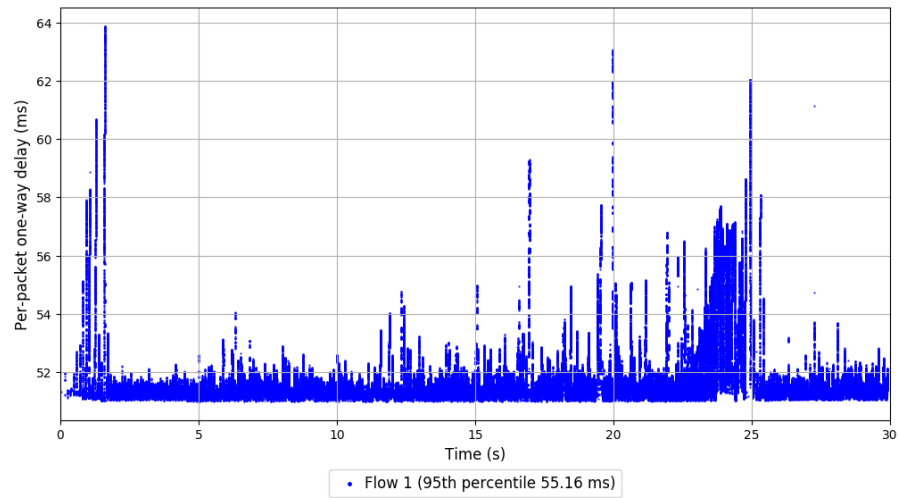
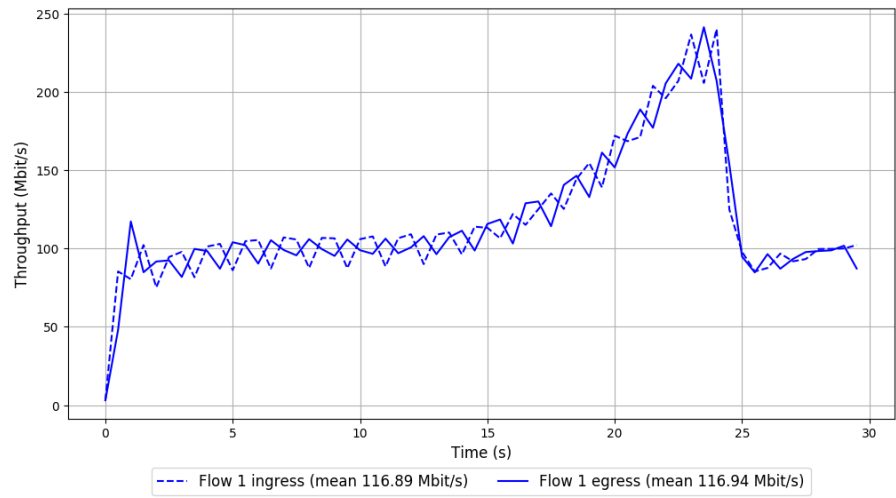
-- Flow 1:

Average throughput: 116.94 Mbit/s

95th percentile per-packet one-way delay: 55.165 ms

Loss rate: 0.31%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

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

End at: 2018-01-09 01:42:29

Below is generated by plot.py at 2018-01-09 04:48:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.43 Mbit/s

95th percentile per-packet one-way delay: 53.482 ms

Loss rate: 1.02%

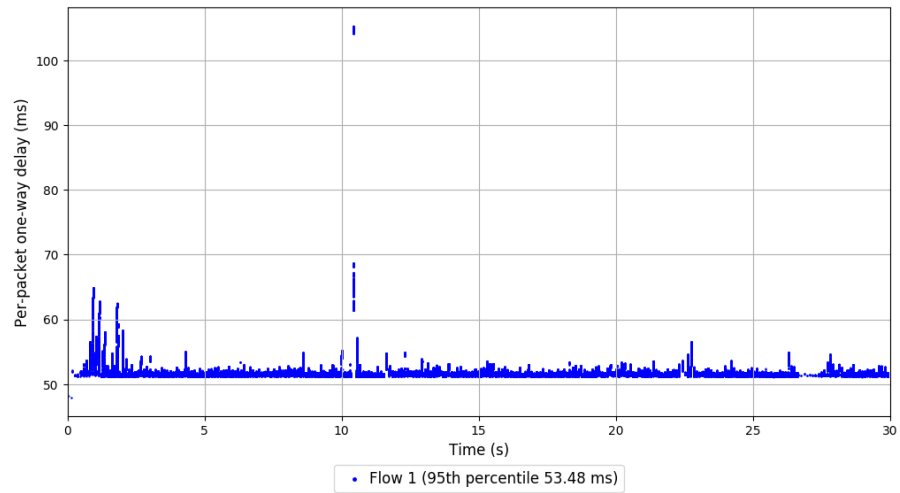
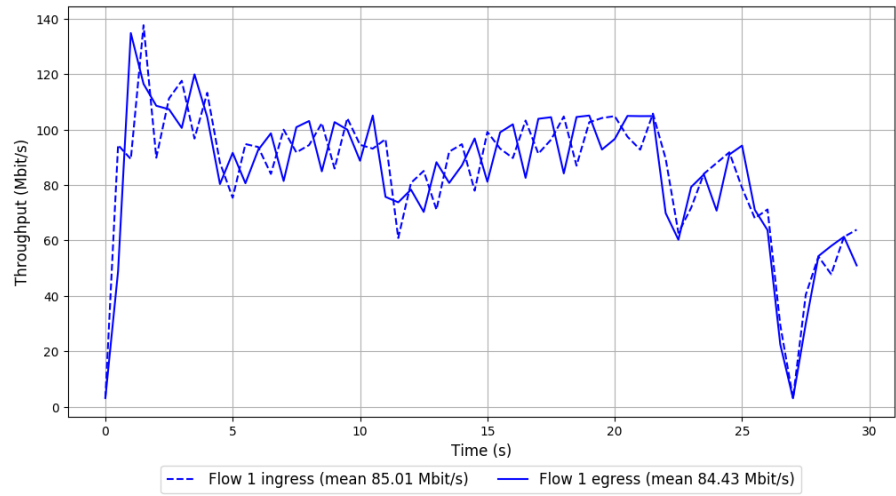
-- Flow 1:

Average throughput: 84.43 Mbit/s

95th percentile per-packet one-way delay: 53.482 ms

Loss rate: 1.02%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-01-09 01:53:42

End at: 2018-01-09 01:54:12

Below is generated by plot.py at 2018-01-09 04:48:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 121.93 Mbit/s

95th percentile per-packet one-way delay: 53.956 ms

Loss rate: 1.15%

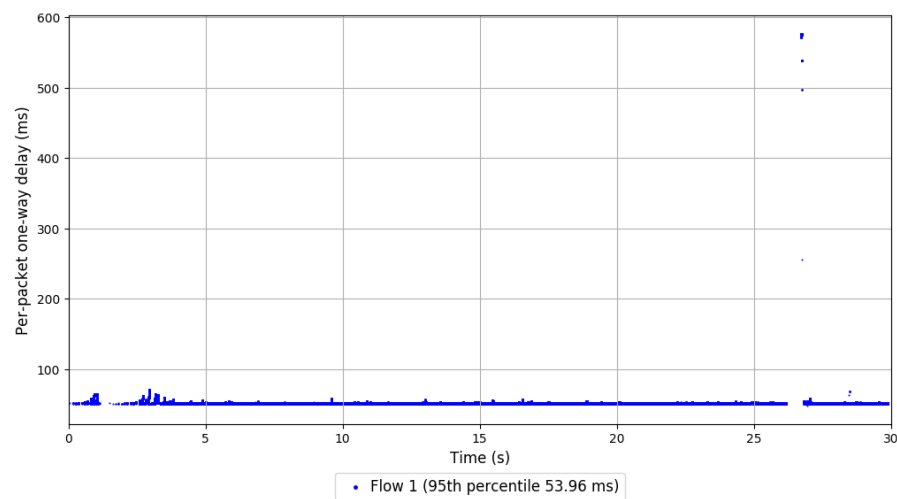
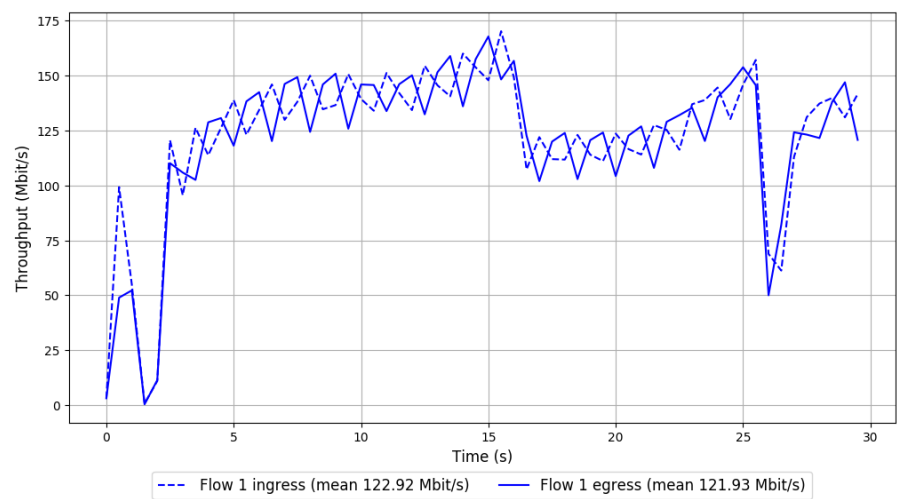
-- Flow 1:

Average throughput: 121.93 Mbit/s

95th percentile per-packet one-way delay: 53.956 ms

Loss rate: 1.15%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-01-09 02:05:06

End at: 2018-01-09 02:05:36

Below is generated by plot.py at 2018-01-09 04:48:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 70.35 Mbit/s

95th percentile per-packet one-way delay: 55.223 ms

Loss rate: 0.88%

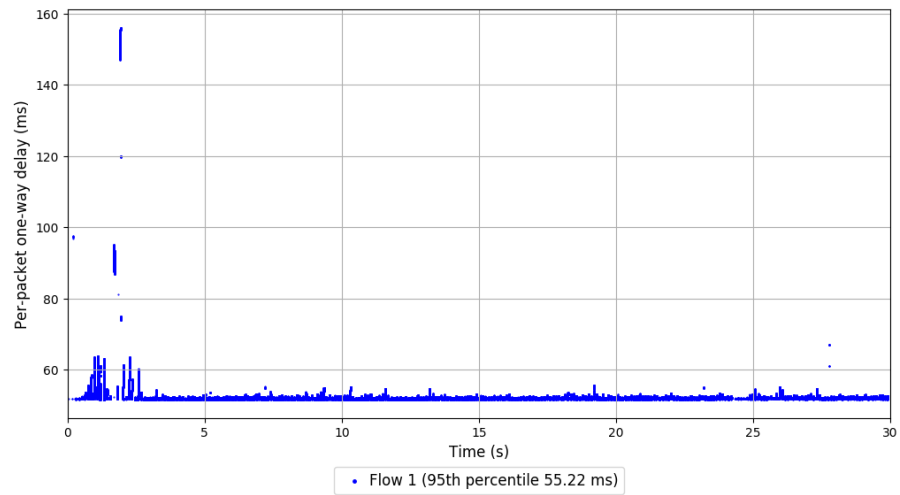
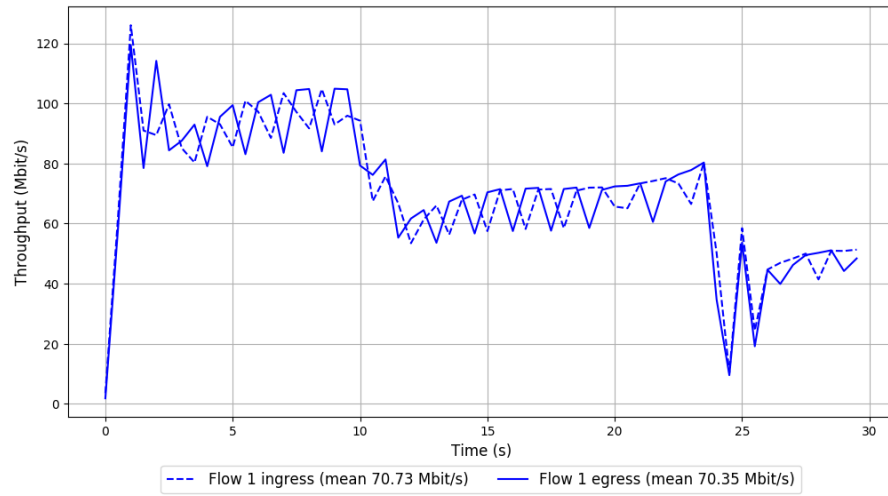
-- Flow 1:

Average throughput: 70.35 Mbit/s

95th percentile per-packet one-way delay: 55.223 ms

Loss rate: 0.88%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

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

End at: 2018-01-09 02:16:31

Below is generated by plot.py at 2018-01-09 04:48:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.49 Mbit/s

95th percentile per-packet one-way delay: 57.698 ms

Loss rate: 0.62%

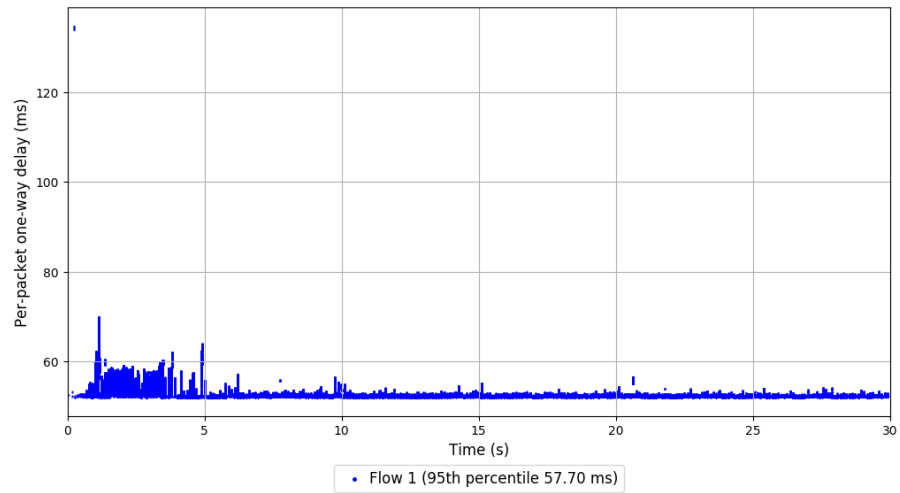
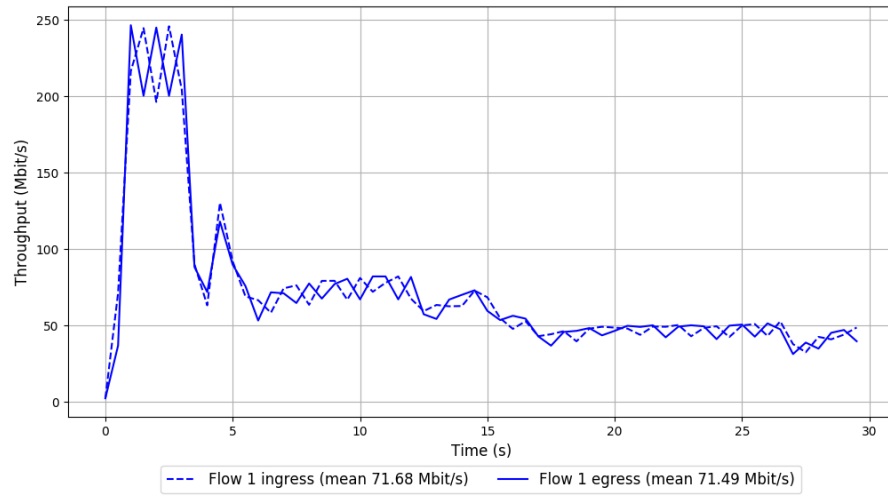
-- Flow 1:

Average throughput: 71.49 Mbit/s

95th percentile per-packet one-way delay: 57.698 ms

Loss rate: 0.62%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-01-09 02:27:11

End at: 2018-01-09 02:27:41

Below is generated by plot.py at 2018-01-09 04:48:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.11 Mbit/s

95th percentile per-packet one-way delay: 58.170 ms

Loss rate: 0.50%

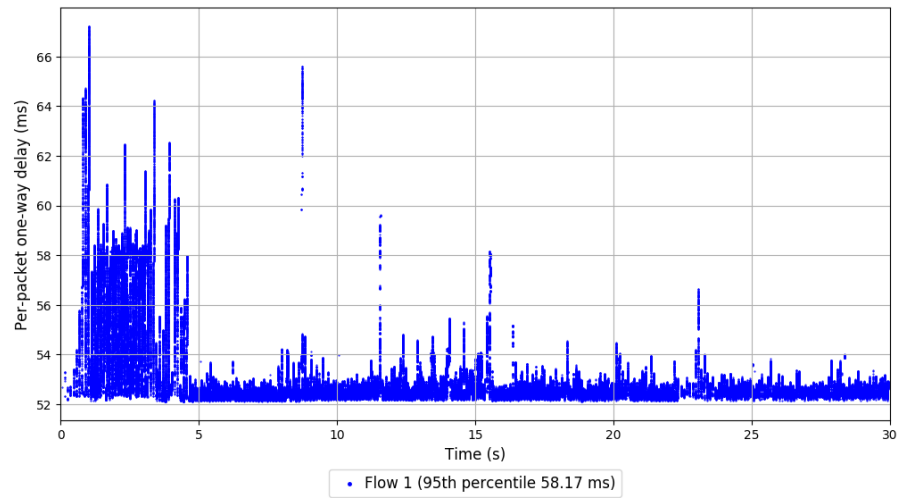
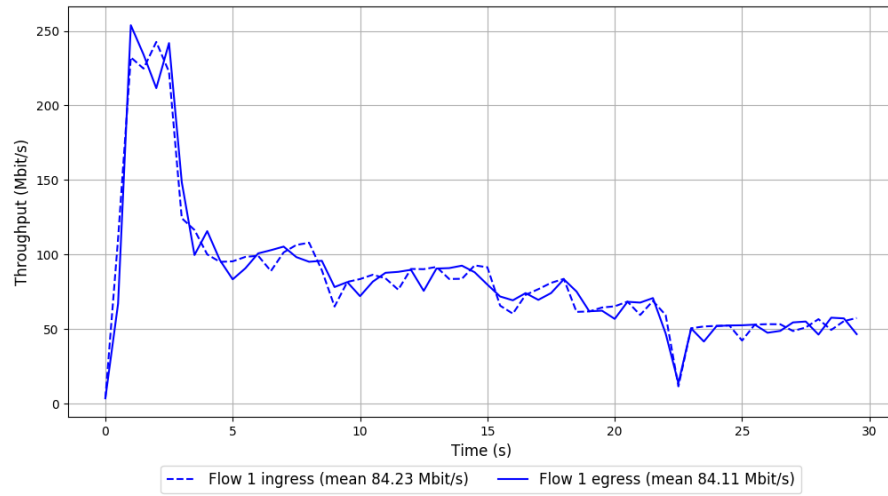
-- Flow 1:

Average throughput: 84.11 Mbit/s

95th percentile per-packet one-way delay: 58.170 ms

Loss rate: 0.50%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-01-09 02:38:40

End at: 2018-01-09 02:39:10

Below is generated by plot.py at 2018-01-09 04:49:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 98.00 Mbit/s

95th percentile per-packet one-way delay: 55.910 ms

Loss rate: 0.56%

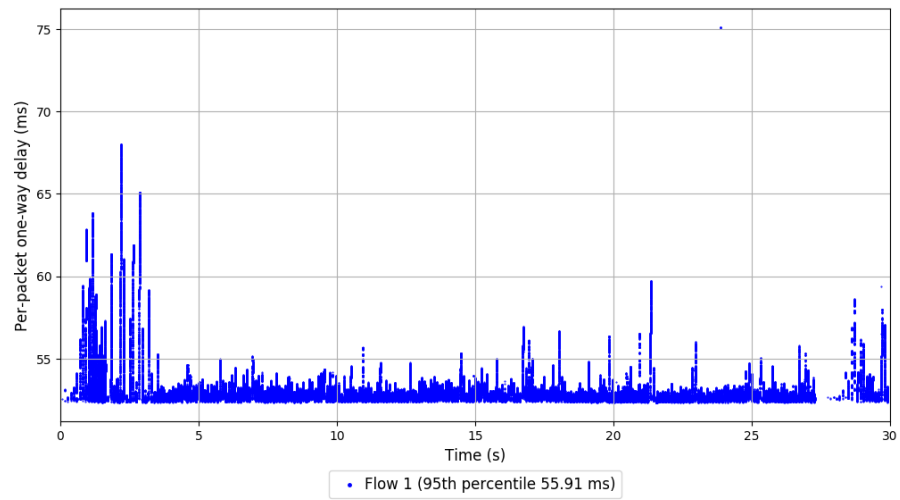
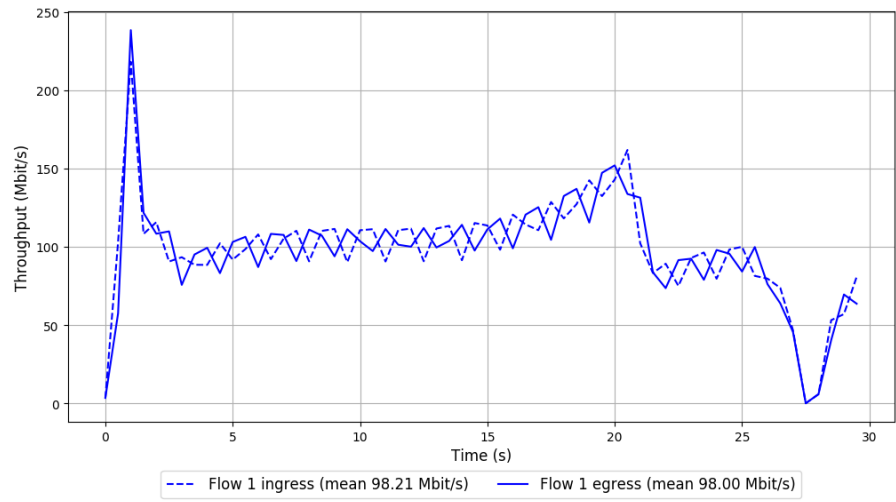
-- Flow 1:

Average throughput: 98.00 Mbit/s

95th percentile per-packet one-way delay: 55.910 ms

Loss rate: 0.56%

Run 10: Report of TCP Cubic — Data Link

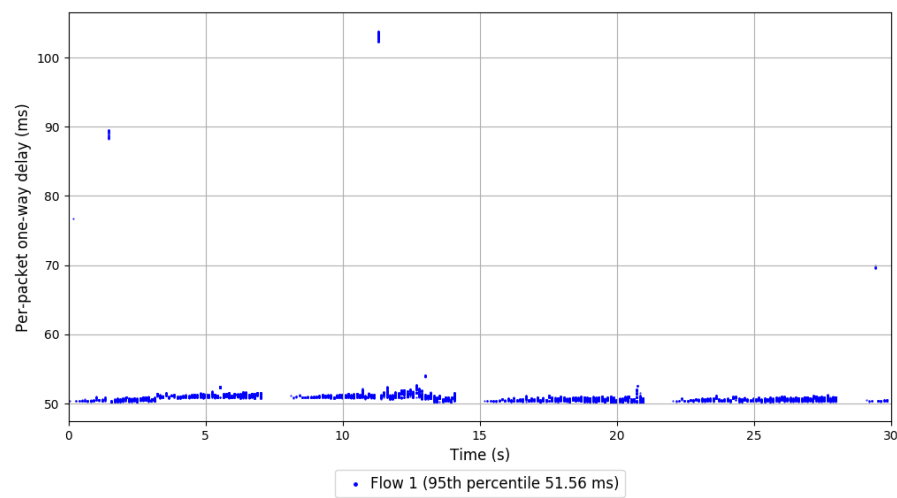
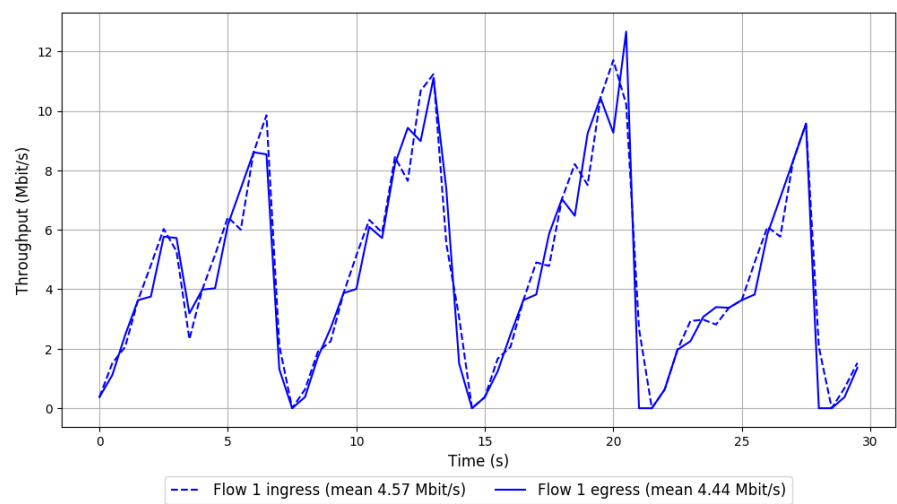


```
Run 1: Statistics of LEDBAT

Start at: 2018-01-09 00:52:56
End at: 2018-01-09 00:53:26

# Below is generated by plot.py at 2018-01-09 04:49:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 4.44 Mbit/s
95th percentile per-packet one-way delay: 51.562 ms
Loss rate: 3.24%
-- Flow 1:
Average throughput: 4.44 Mbit/s
95th percentile per-packet one-way delay: 51.562 ms
Loss rate: 3.24%
```

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2018-01-09 01:04:33

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

Below is generated by plot.py at 2018-01-09 04:49:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.27 Mbit/s

95th percentile per-packet one-way delay: 51.405 ms

Loss rate: 2.13%

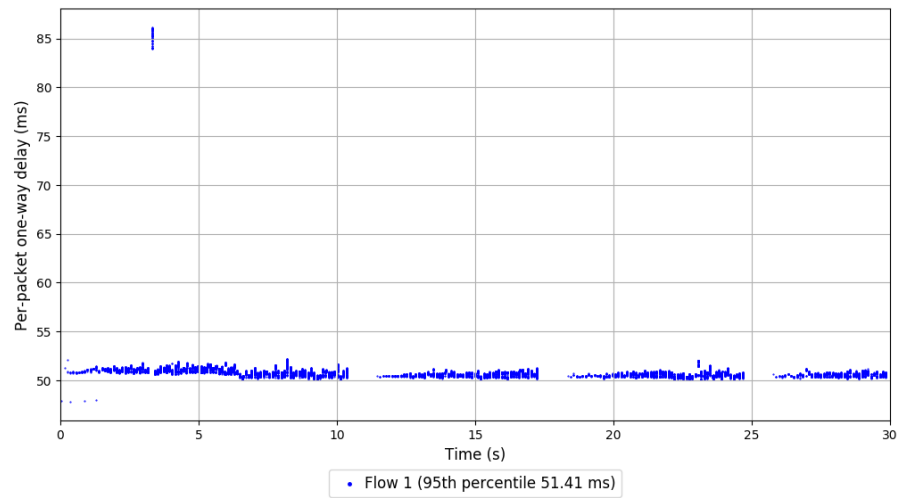
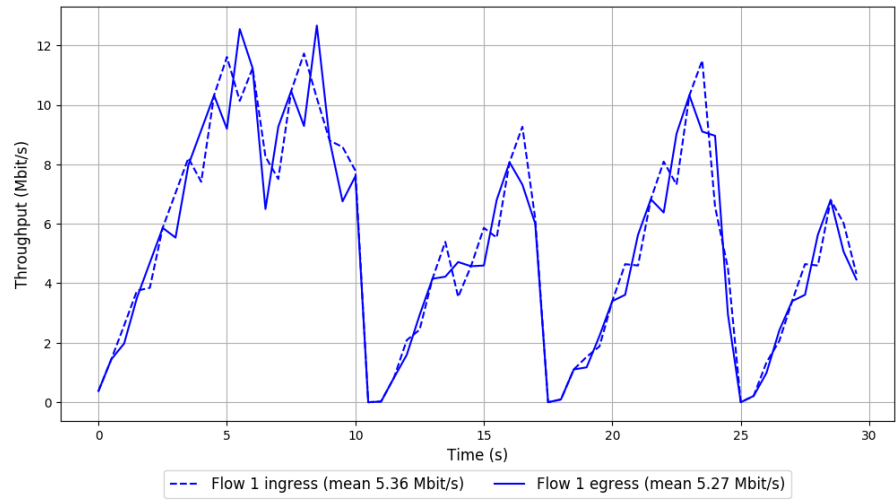
-- Flow 1:

Average throughput: 5.27 Mbit/s

95th percentile per-packet one-way delay: 51.405 ms

Loss rate: 2.13%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-01-09 01:16:06

End at: 2018-01-09 01:16:36

Below is generated by plot.py at 2018-01-09 04:49:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.45 Mbit/s

95th percentile per-packet one-way delay: 51.825 ms

Loss rate: 1.15%

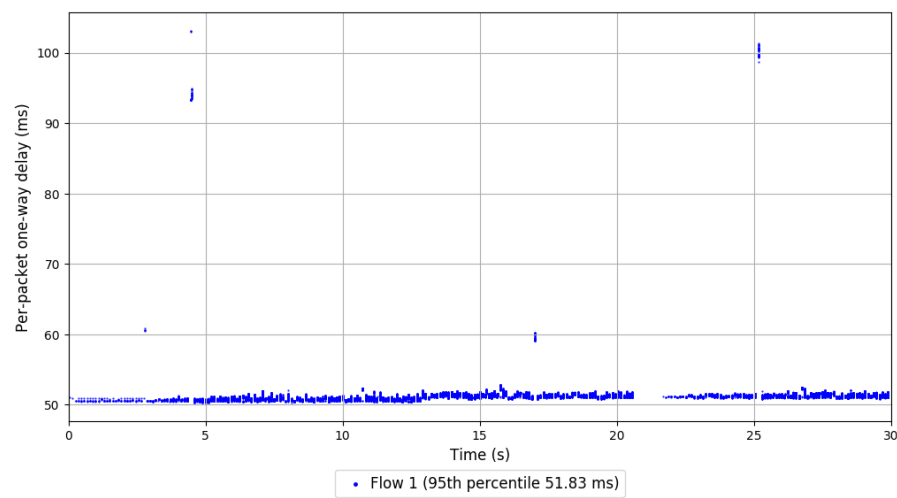
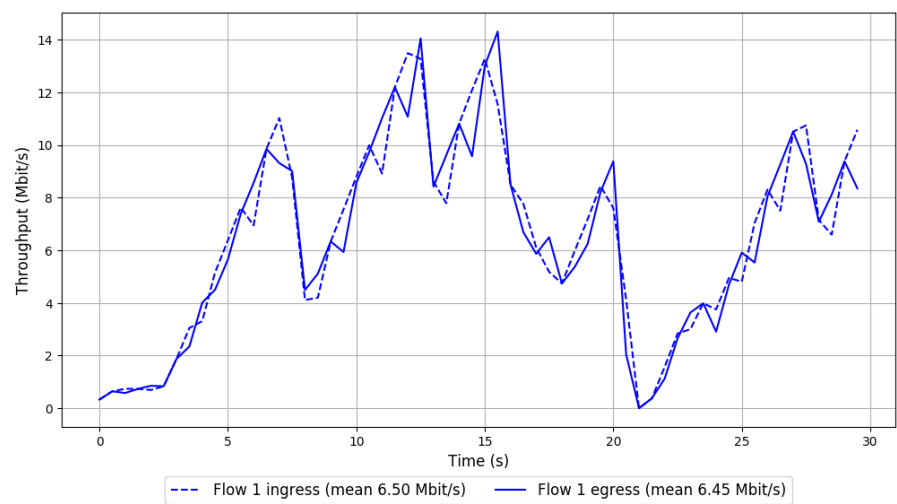
-- Flow 1:

Average throughput: 6.45 Mbit/s

95th percentile per-packet one-way delay: 51.825 ms

Loss rate: 1.15%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

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

End at: 2018-01-09 01:27:54

Below is generated by plot.py at 2018-01-09 04:49:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.56 Mbit/s

95th percentile per-packet one-way delay: 51.918 ms

Loss rate: 2.62%

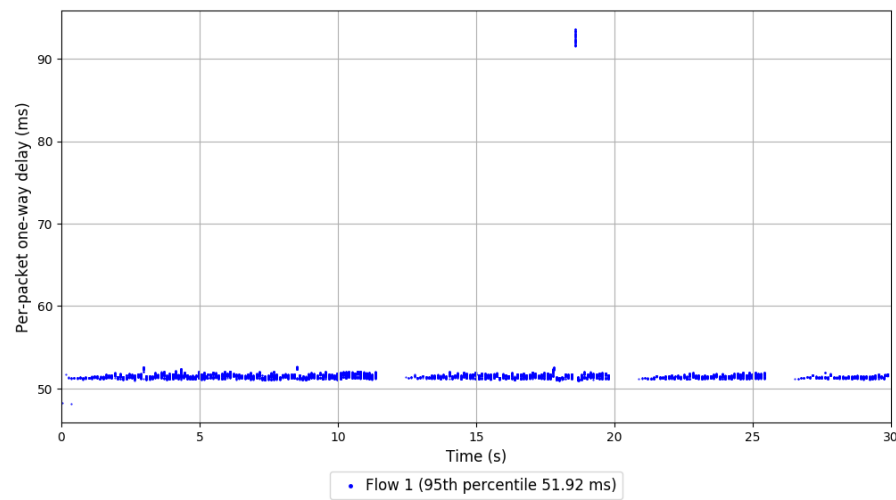
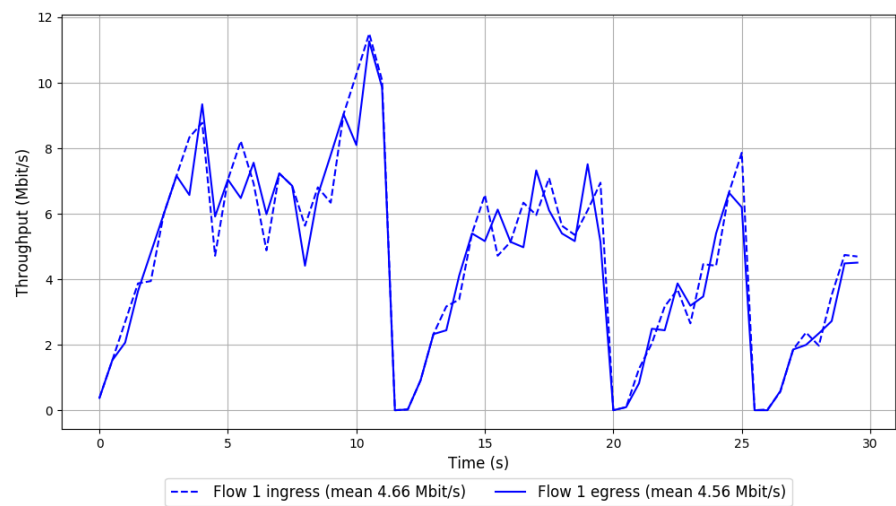
-- Flow 1:

Average throughput: 4.56 Mbit/s

95th percentile per-packet one-way delay: 51.918 ms

Loss rate: 2.62%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-01-09 01:38:37

End at: 2018-01-09 01:39:07

Below is generated by plot.py at 2018-01-09 04:49:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.85 Mbit/s

95th percentile per-packet one-way delay: 52.079 ms

Loss rate: 3.46%

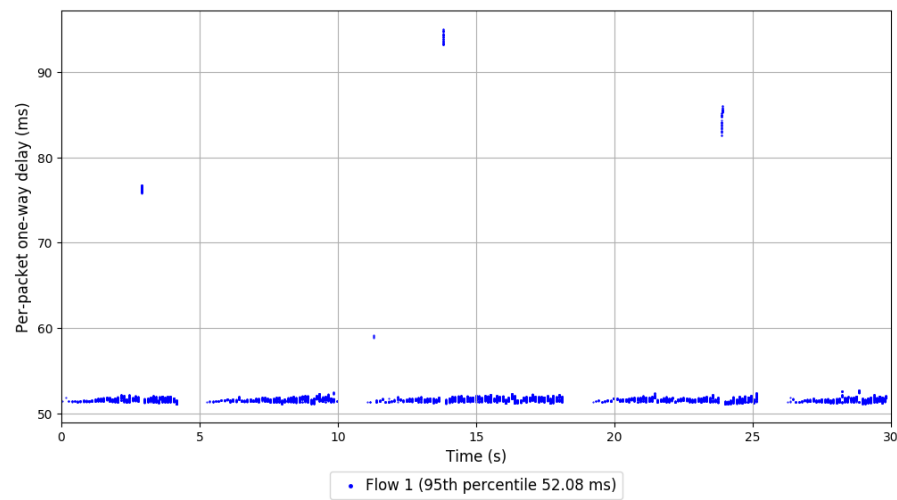
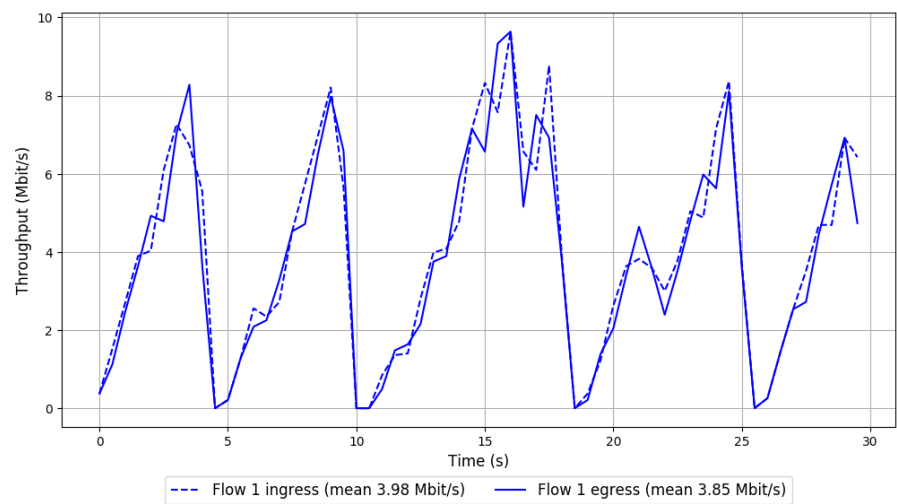
-- Flow 1:

Average throughput: 3.85 Mbit/s

95th percentile per-packet one-way delay: 52.079 ms

Loss rate: 3.46%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-01-09 01:50:13

End at: 2018-01-09 01:50:43

Below is generated by plot.py at 2018-01-09 04:49:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.69 Mbit/s

95th percentile per-packet one-way delay: 52.123 ms

Loss rate: 2.03%

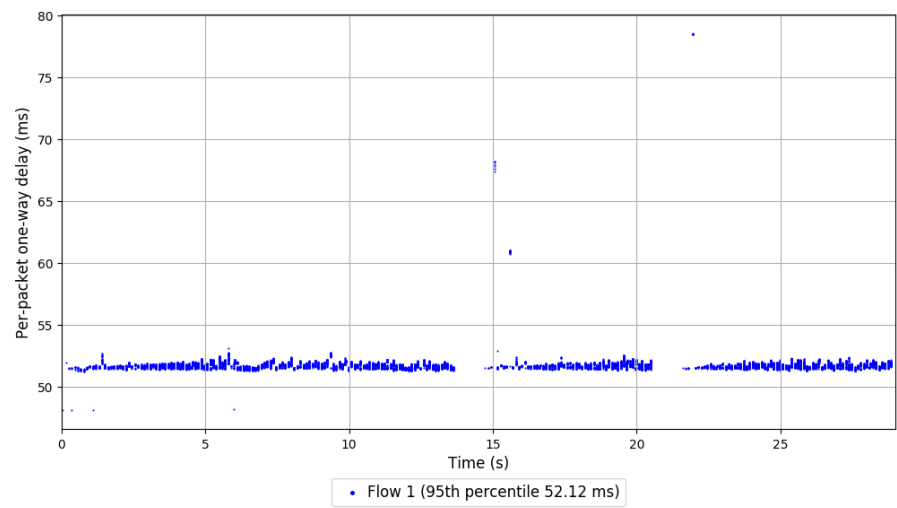
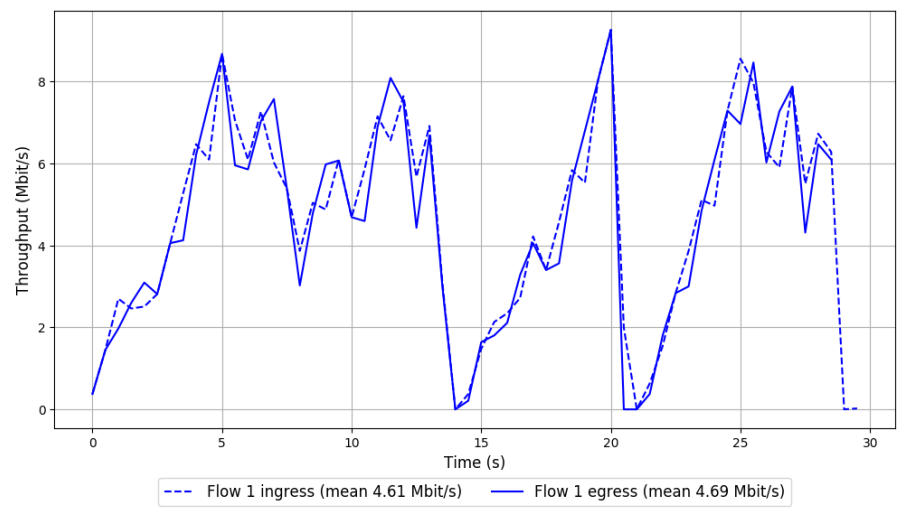
-- Flow 1:

Average throughput: 4.69 Mbit/s

95th percentile per-packet one-way delay: 52.123 ms

Loss rate: 2.03%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

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

End at: 2018-01-09 02:02:25

Below is generated by plot.py at 2018-01-09 04:49:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.94 Mbit/s

95th percentile per-packet one-way delay: 52.482 ms

Loss rate: 2.70%

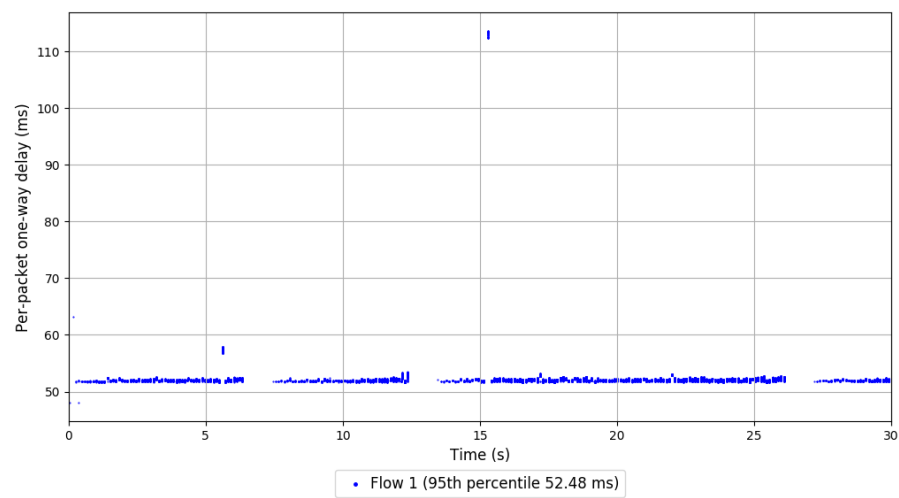
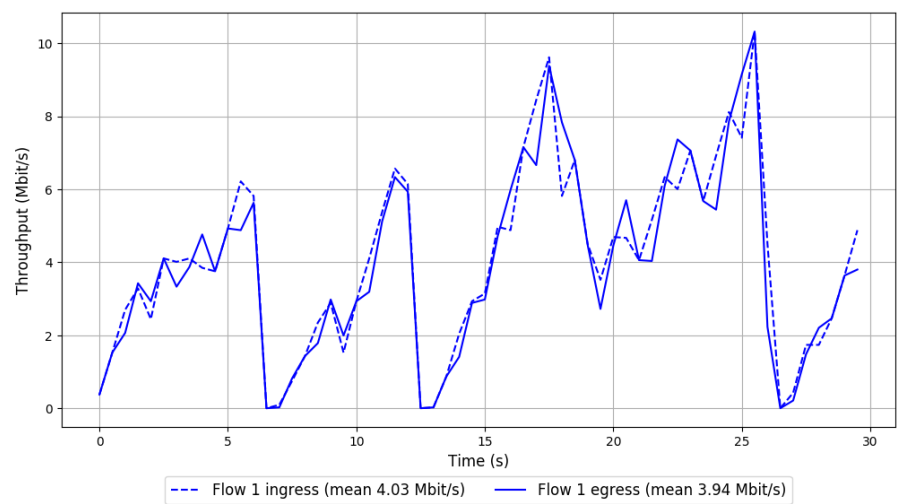
-- Flow 1:

Average throughput: 3.94 Mbit/s

95th percentile per-packet one-way delay: 52.482 ms

Loss rate: 2.70%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-01-09 02:12:40

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

Below is generated by plot.py at 2018-01-09 04:49:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.97 Mbit/s

95th percentile per-packet one-way delay: 52.667 ms

Loss rate: 2.65%

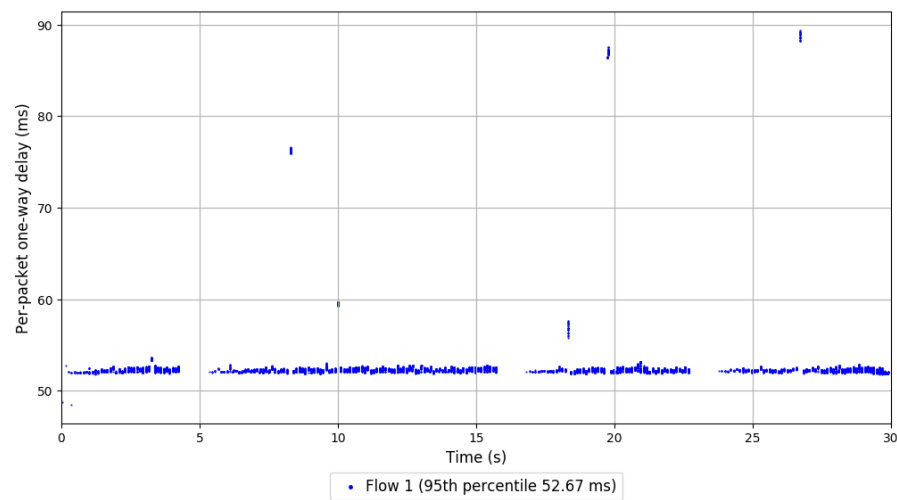
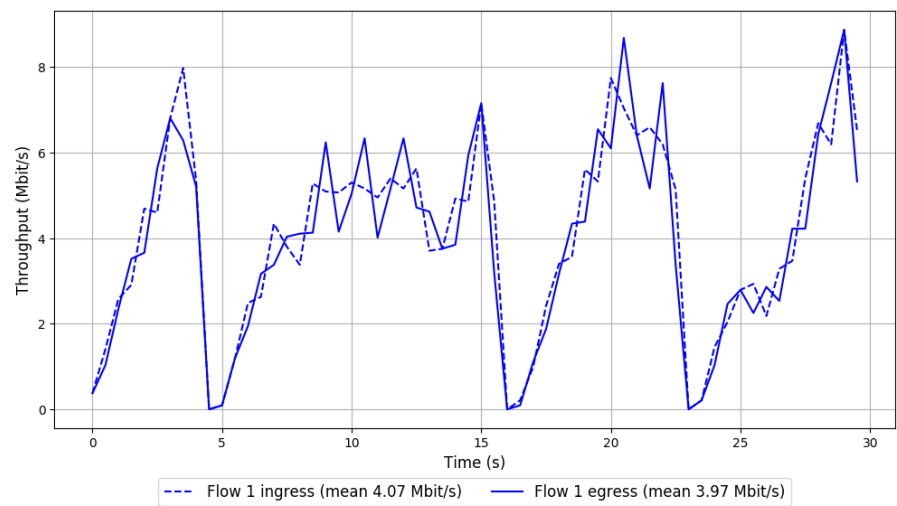
-- Flow 1:

Average throughput: 3.97 Mbit/s

95th percentile per-packet one-way delay: 52.667 ms

Loss rate: 2.65%

Run 8: Report of LEDBAT — Data Link

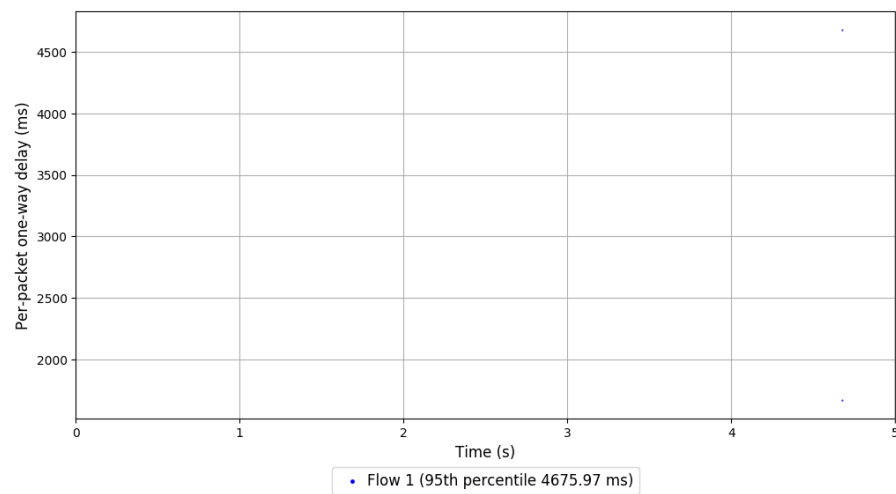
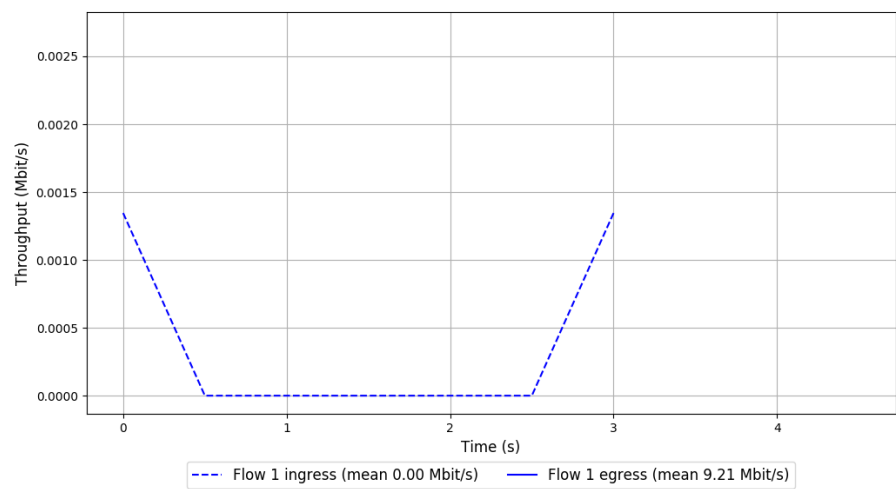


Run 9: Statistics of LEDBAT

Start at: 2018-01-09 02:24:00

End at: 2018-01-09 02:24:30

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-01-09 02:35:22

End at: 2018-01-09 02:35:52

Below is generated by plot.py at 2018-01-09 04:49:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.12 Mbit/s

95th percentile per-packet one-way delay: 53.489 ms

Loss rate: 1.98%

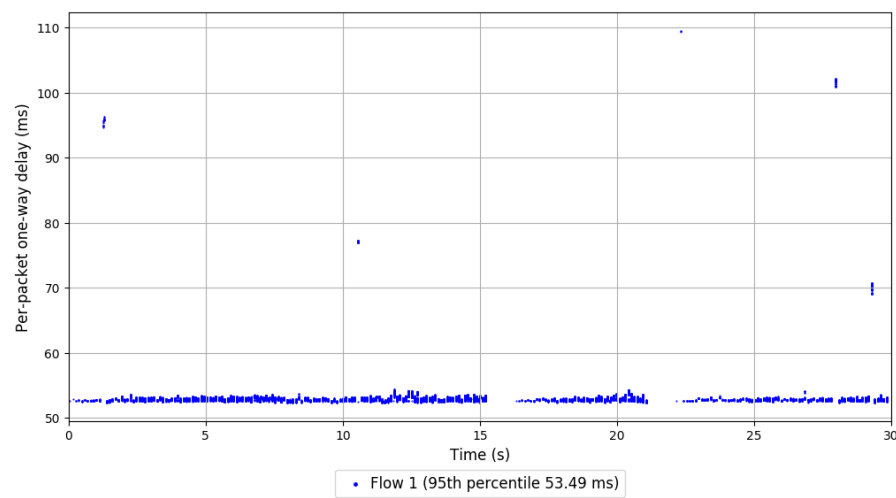
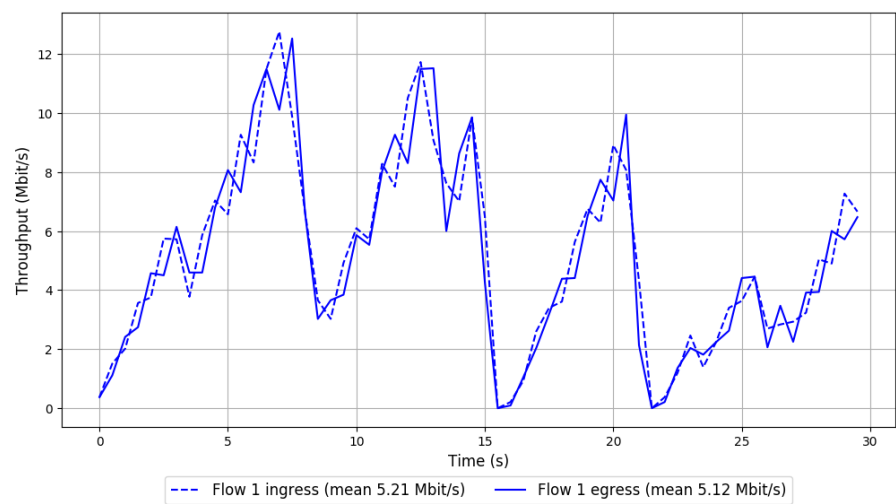
-- Flow 1:

Average throughput: 5.12 Mbit/s

95th percentile per-packet one-way delay: 53.489 ms

Loss rate: 1.98%

Run 10: Report of LEDBAT — Data Link

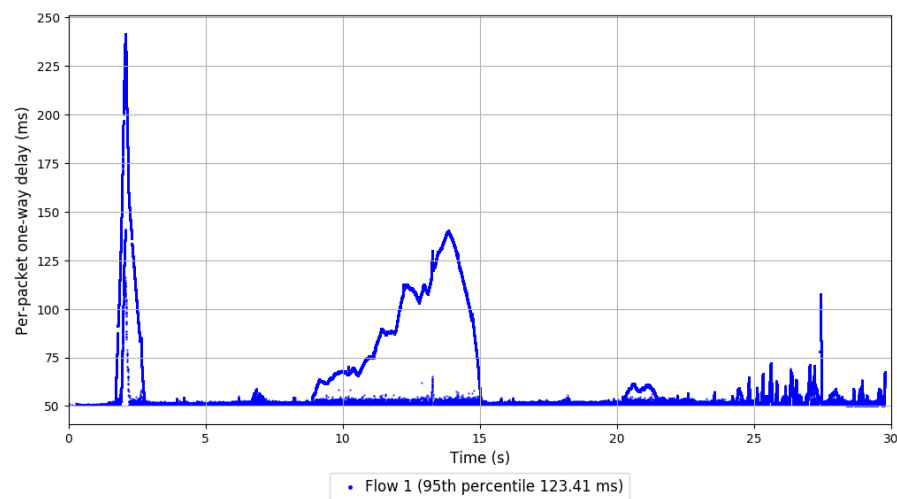
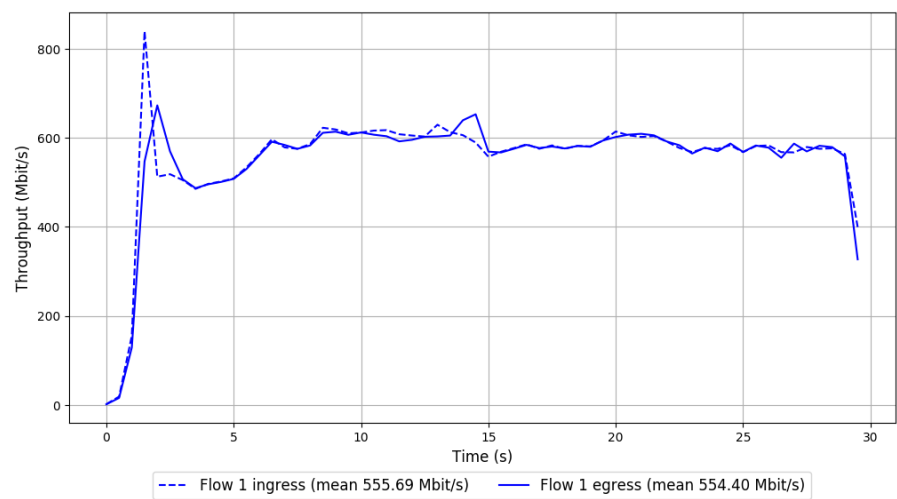


```
Run 1: Statistics of PCC

Start at: 2018-01-09 00:49:11
End at: 2018-01-09 00:49:41

# Below is generated by plot.py at 2018-01-09 04:57:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 554.40 Mbit/s
95th percentile per-packet one-way delay: 123.411 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 554.40 Mbit/s
95th percentile per-packet one-way delay: 123.411 ms
Loss rate: 0.58%
```

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2018-01-09 01:00:39

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

Below is generated by plot.py at 2018-01-09 04:57:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 545.12 Mbit/s

95th percentile per-packet one-way delay: 97.805 ms

Loss rate: 0.81%

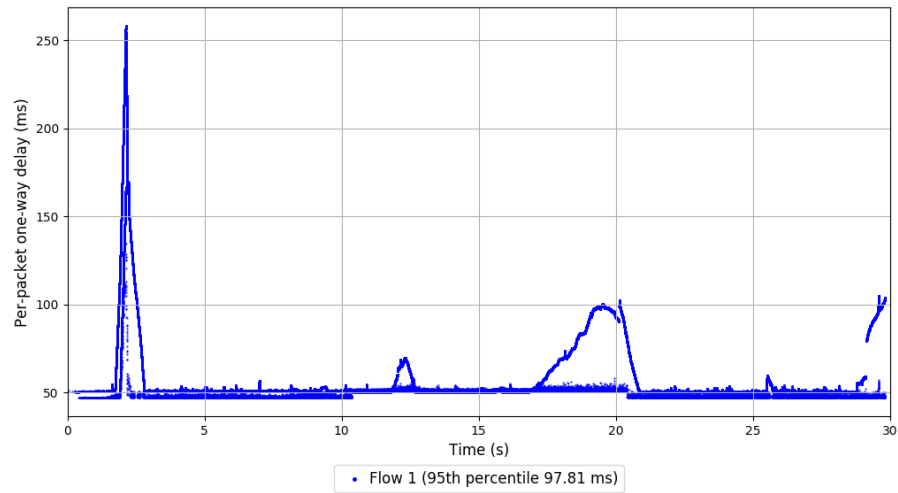
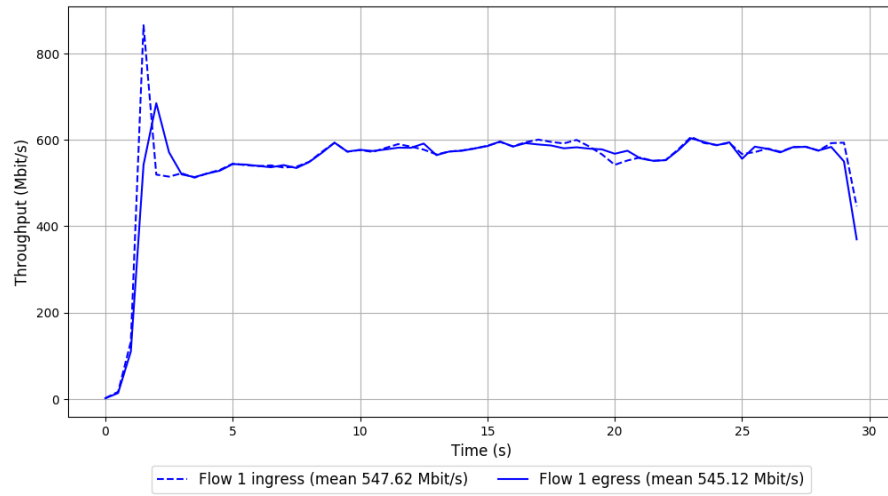
-- Flow 1:

Average throughput: 545.12 Mbit/s

95th percentile per-packet one-way delay: 97.805 ms

Loss rate: 0.81%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2018-01-09 01:12:22

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

Below is generated by plot.py at 2018-01-09 04:57:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 588.45 Mbit/s

95th percentile per-packet one-way delay: 146.617 ms

Loss rate: 0.56%

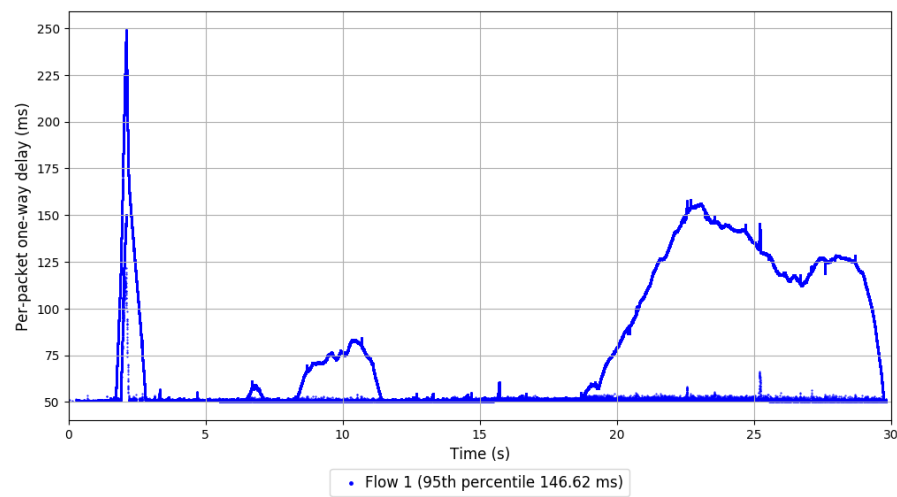
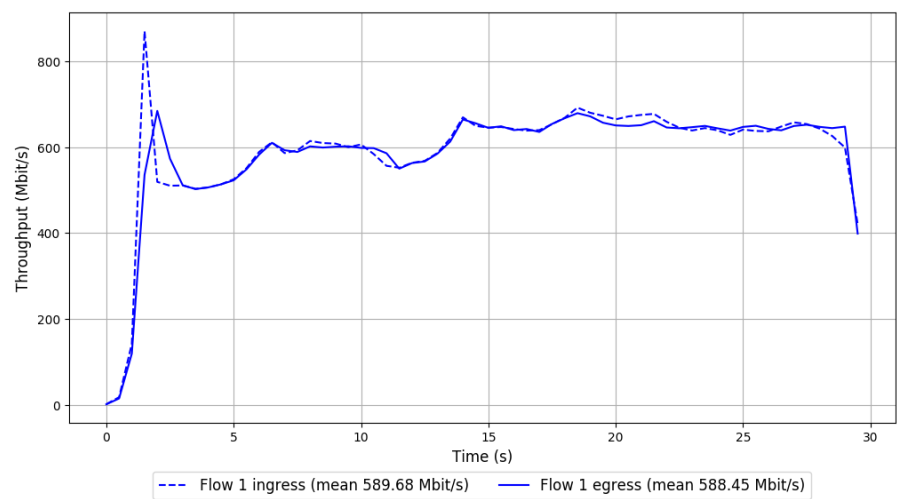
-- Flow 1:

Average throughput: 588.45 Mbit/s

95th percentile per-packet one-way delay: 146.617 ms

Loss rate: 0.56%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2018-01-09 01:23:45

End at: 2018-01-09 01:24:15

Below is generated by plot.py at 2018-01-09 04:57:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 502.28 Mbit/s

95th percentile per-packet one-way delay: 201.254 ms

Loss rate: 5.57%

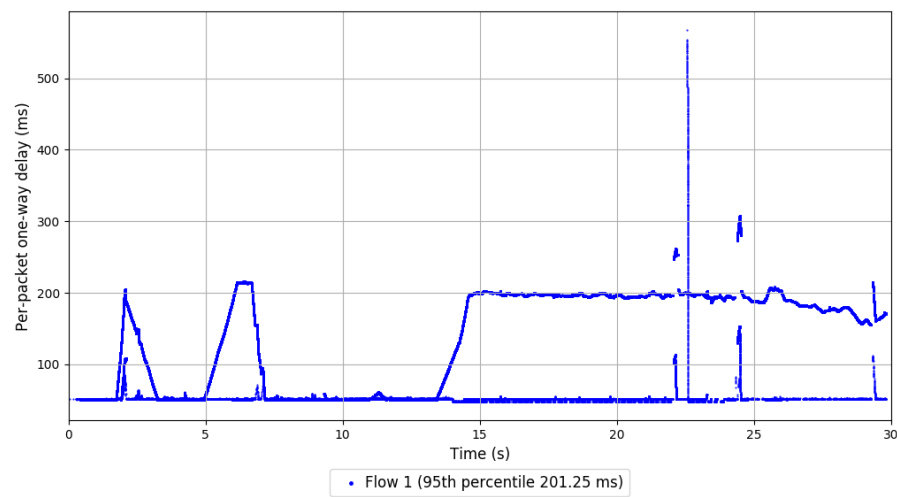
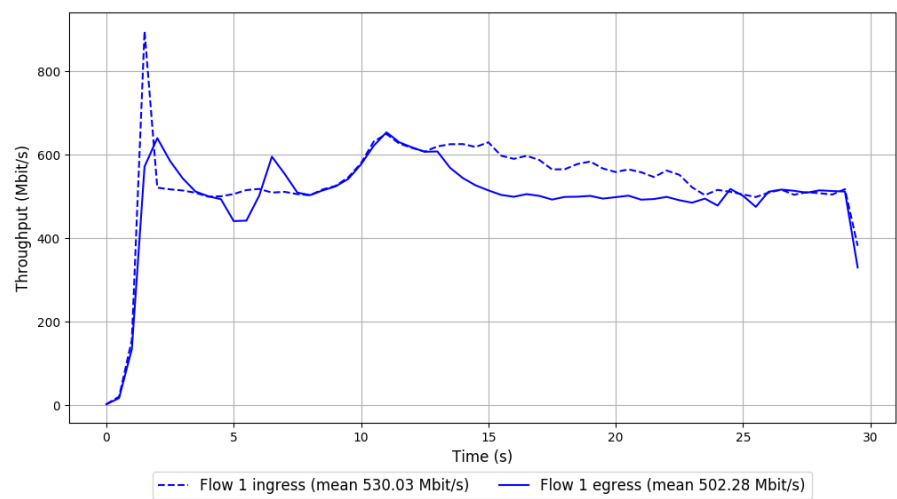
-- Flow 1:

Average throughput: 502.28 Mbit/s

95th percentile per-packet one-way delay: 201.254 ms

Loss rate: 5.57%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

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

End at: 2018-01-09 01:35:36

Below is generated by plot.py at 2018-01-09 04:57:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 198.09 Mbit/s

95th percentile per-packet one-way delay: 51.769 ms

Loss rate: 0.62%

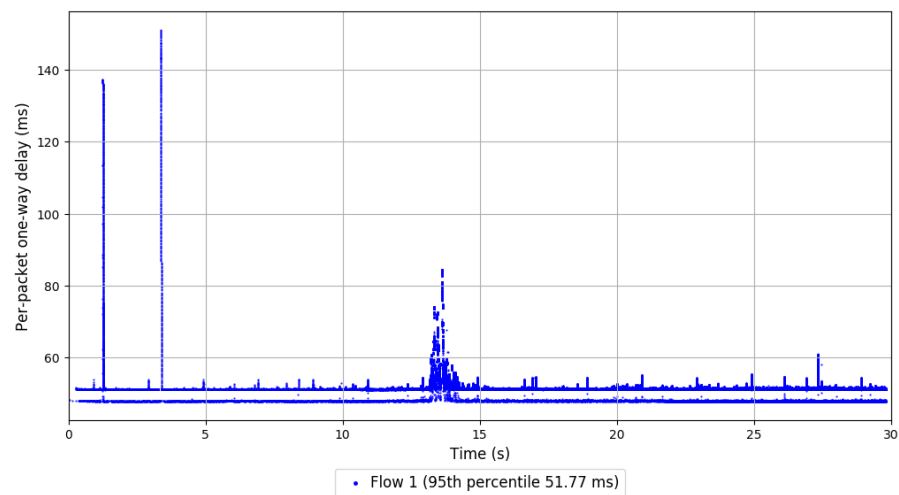
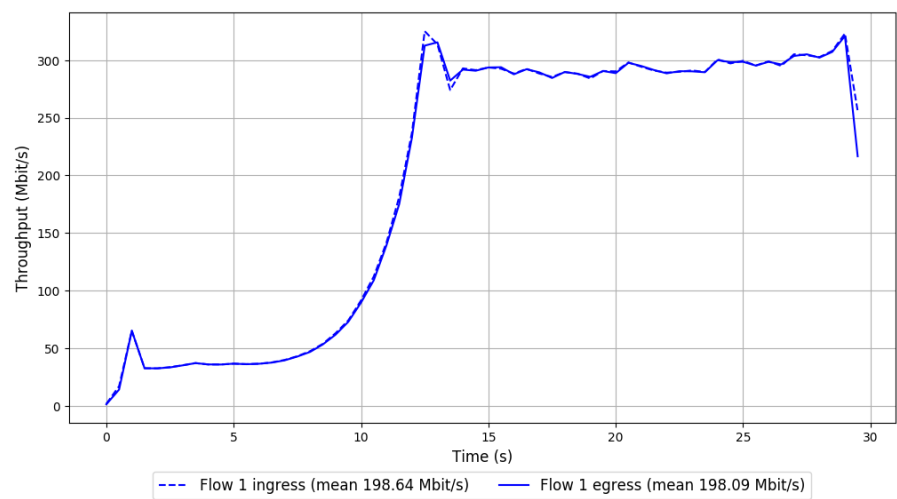
-- Flow 1:

Average throughput: 198.09 Mbit/s

95th percentile per-packet one-way delay: 51.769 ms

Loss rate: 0.62%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2018-01-09 01:46:29

End at: 2018-01-09 01:46:59

Below is generated by plot.py at 2018-01-09 04:57:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 565.13 Mbit/s

95th percentile per-packet one-way delay: 69.812 ms

Loss rate: 0.73%

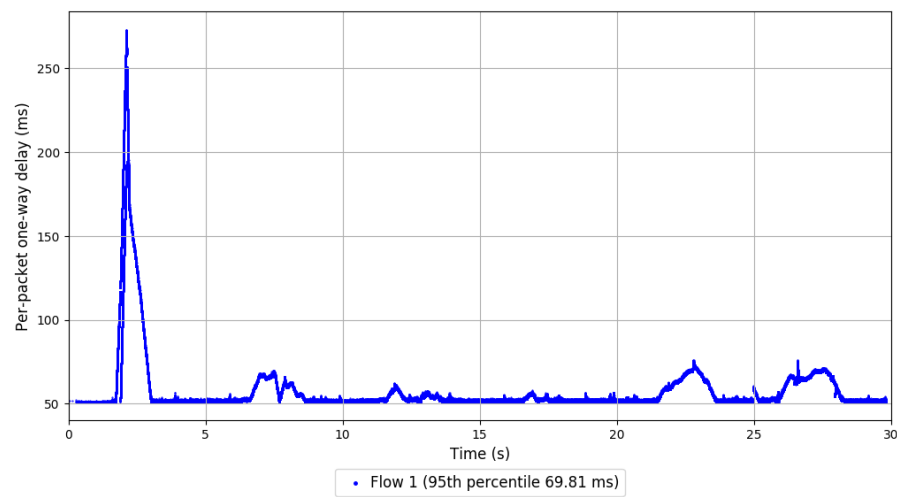
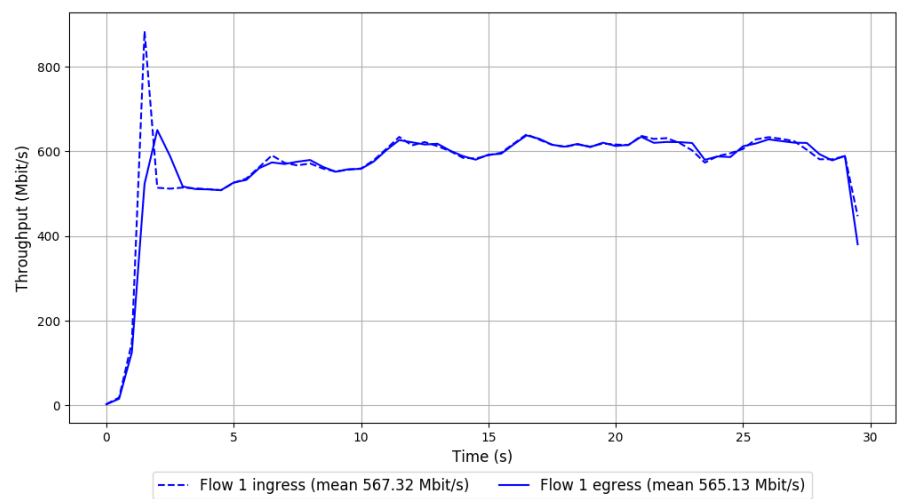
-- Flow 1:

Average throughput: 565.13 Mbit/s

95th percentile per-packet one-way delay: 69.812 ms

Loss rate: 0.73%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2018-01-09 01:58:13

End at: 2018-01-09 01:58:43

Below is generated by plot.py at 2018-01-09 04:57:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 563.94 Mbit/s

95th percentile per-packet one-way delay: 175.864 ms

Loss rate: 1.65%

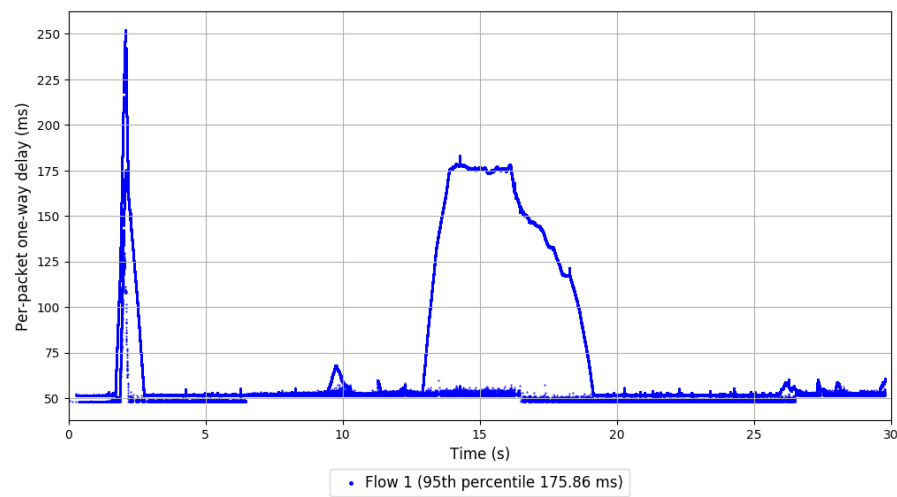
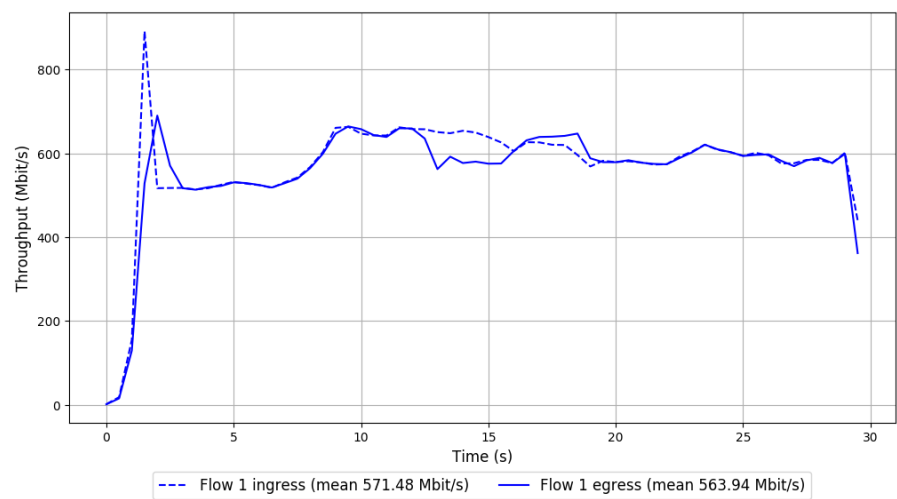
-- Flow 1:

Average throughput: 563.94 Mbit/s

95th percentile per-packet one-way delay: 175.864 ms

Loss rate: 1.65%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2018-01-09 02:09:34

End at: 2018-01-09 02:10:04

Below is generated by plot.py at 2018-01-09 04:57:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 543.94 Mbit/s

95th percentile per-packet one-way delay: 63.608 ms

Loss rate: 0.59%

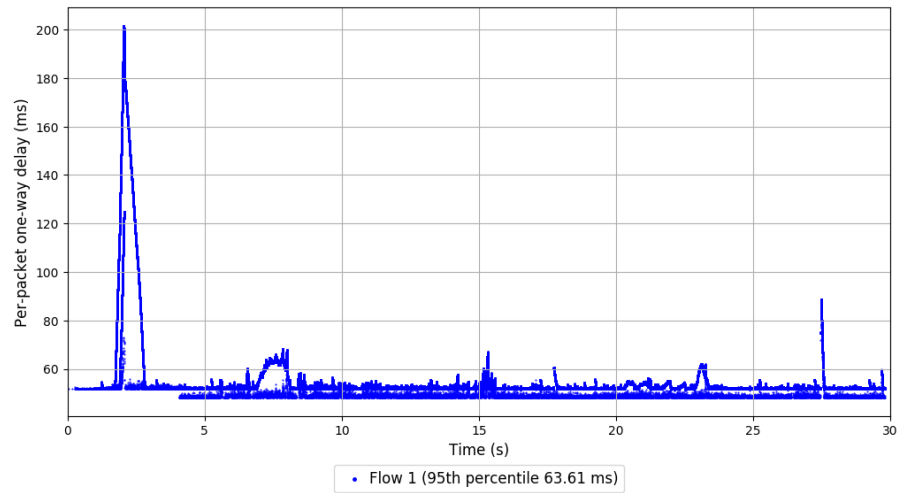
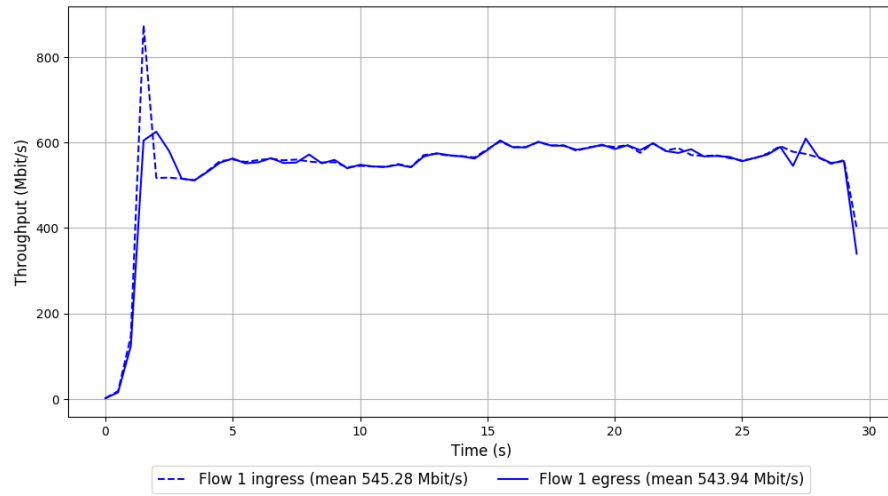
-- Flow 1:

Average throughput: 543.94 Mbit/s

95th percentile per-packet one-way delay: 63.608 ms

Loss rate: 0.59%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2018-01-09 02:20:29

End at: 2018-01-09 02:20:59

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 521.96 Mbit/s

95th percentile per-packet one-way delay: 63.180 ms

Loss rate: 0.52%

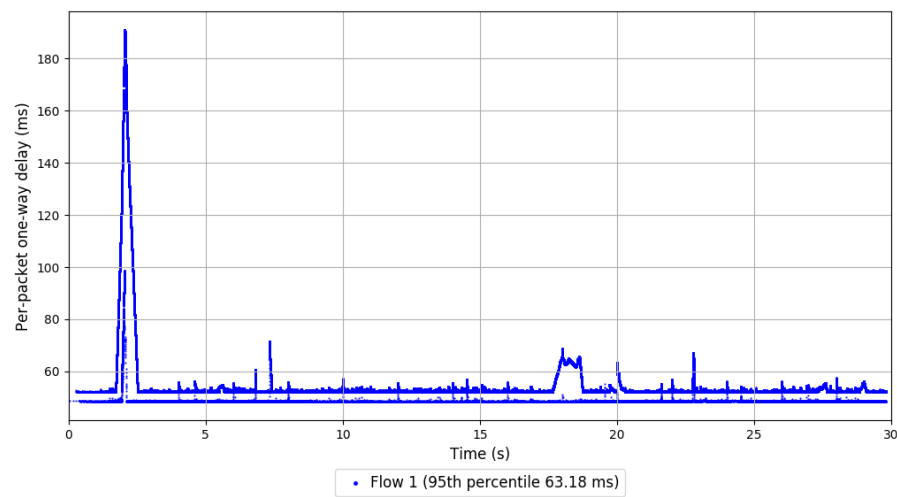
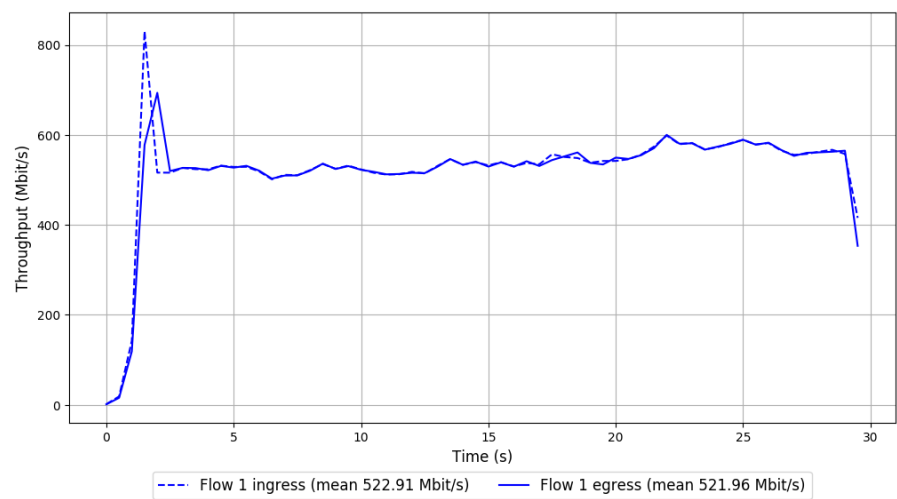
-- Flow 1:

Average throughput: 521.96 Mbit/s

95th percentile per-packet one-way delay: 63.180 ms

Loss rate: 0.52%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2018-01-09 02:31:38

End at: 2018-01-09 02:32:08

Below is generated by plot.py at 2018-01-09 05:06:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 551.38 Mbit/s

95th percentile per-packet one-way delay: 82.983 ms

Loss rate: 0.71%

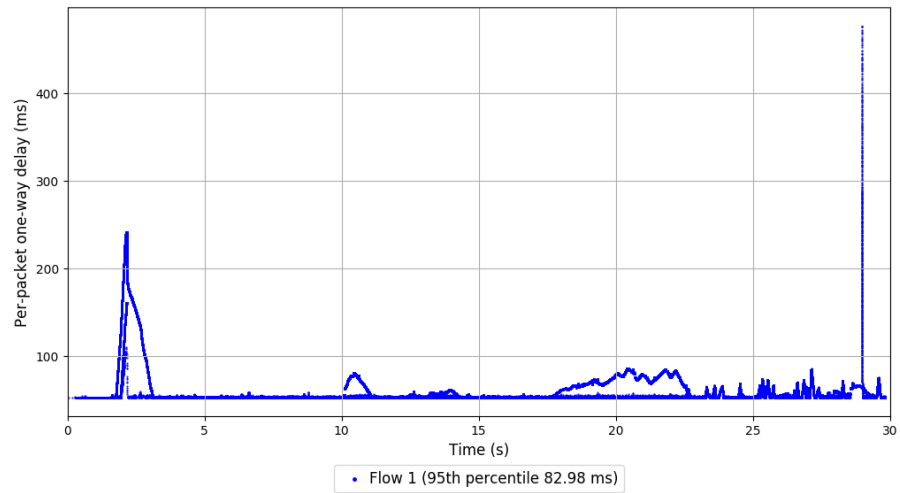
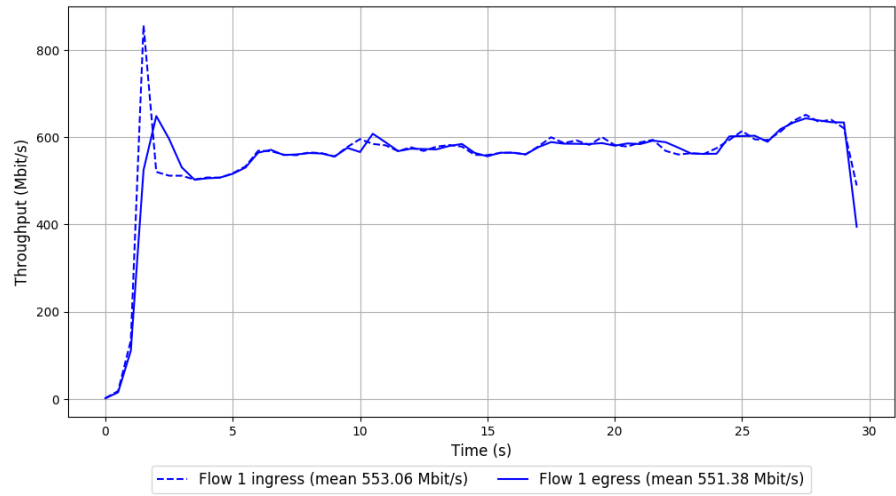
-- Flow 1:

Average throughput: 551.38 Mbit/s

95th percentile per-packet one-way delay: 82.983 ms

Loss rate: 0.71%

Run 10: Report of PCC — Data Link

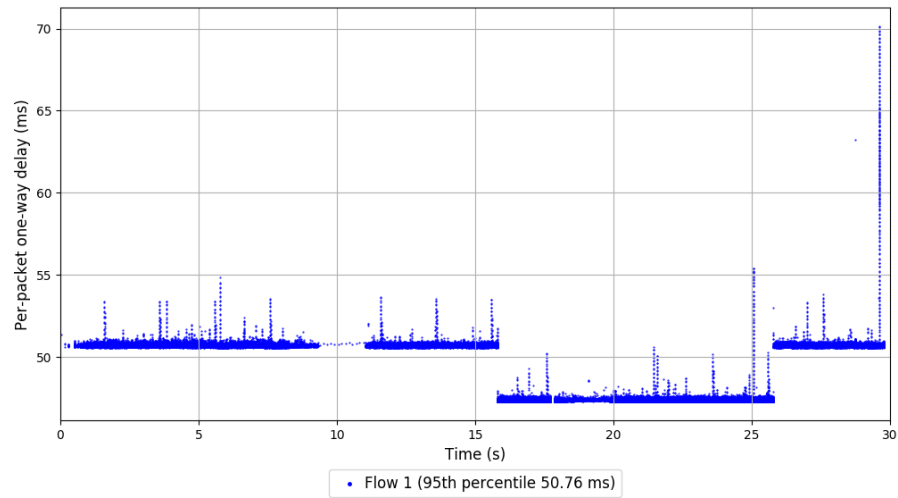
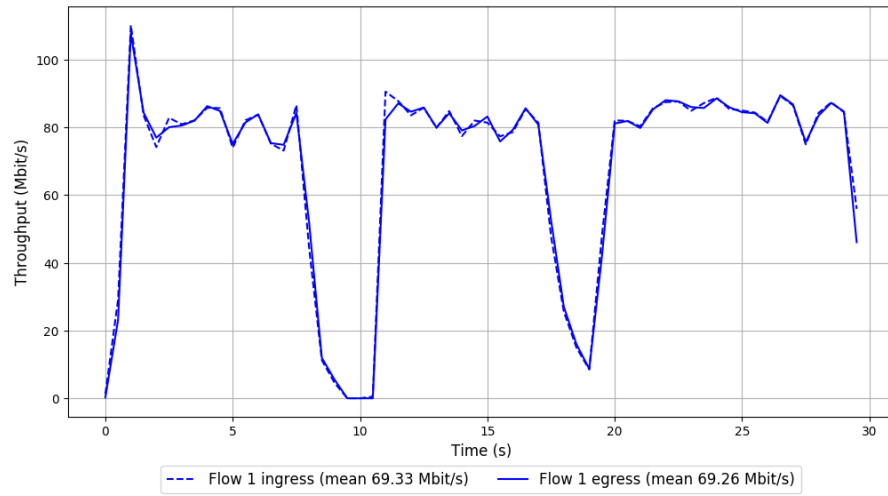


```
Run 1: Statistics of QUIC Cubic

Start at: 2018-01-09 00:53:33
End at: 2018-01-09 00:54:03

# Below is generated by plot.py at 2018-01-09 05:06:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 69.26 Mbit/s
95th percentile per-packet one-way delay: 50.762 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 69.26 Mbit/s
95th percentile per-packet one-way delay: 50.762 ms
Loss rate: 0.45%
```

Run 1: Report of QUIC Cubic — Data Link

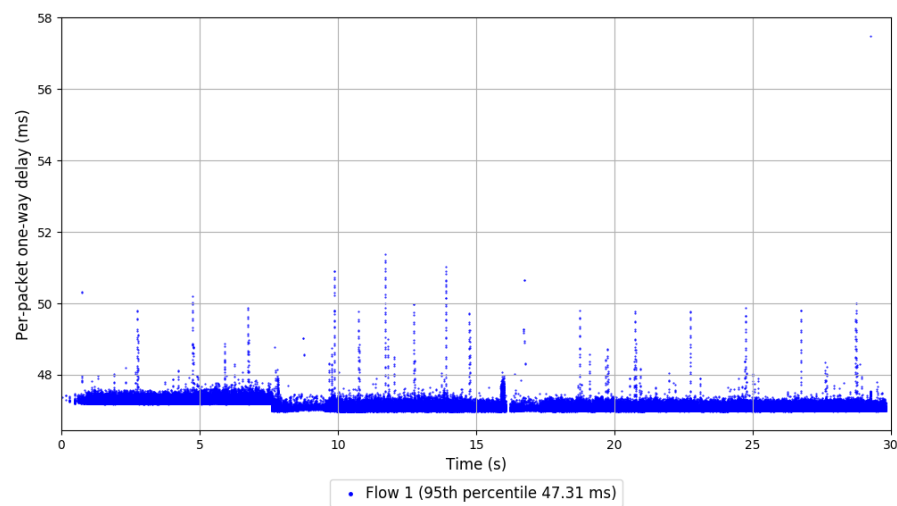
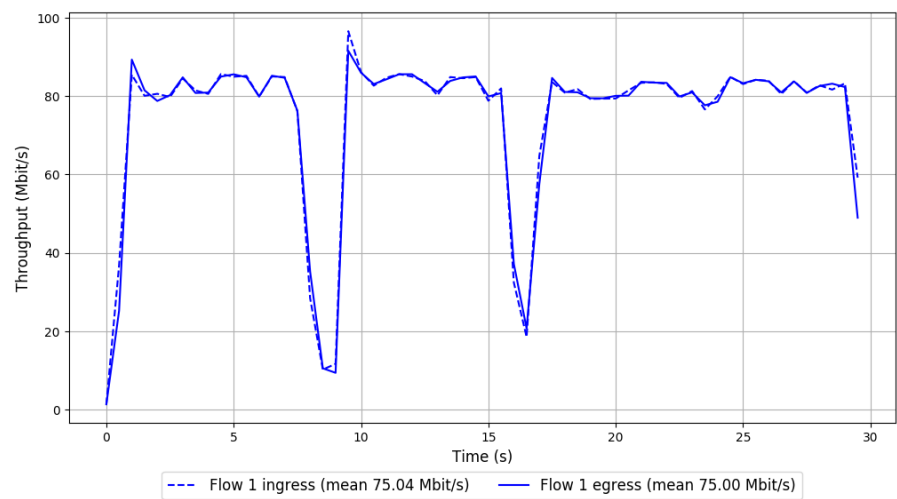


```
Run 2: Statistics of QUIC Cubic

Start at: 2018-01-09 01:05:10
End at: 2018-01-09 01:05:40

# Below is generated by plot.py at 2018-01-09 05:06:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 75.00 Mbit/s
95th percentile per-packet one-way delay: 47.311 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 75.00 Mbit/s
95th percentile per-packet one-way delay: 47.311 ms
Loss rate: 0.40%
```

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-01-09 01:16:44

End at: 2018-01-09 01:17:14

Below is generated by plot.py at 2018-01-09 05:06:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 61.55 Mbit/s

95th percentile per-packet one-way delay: 50.875 ms

Loss rate: 0.72%

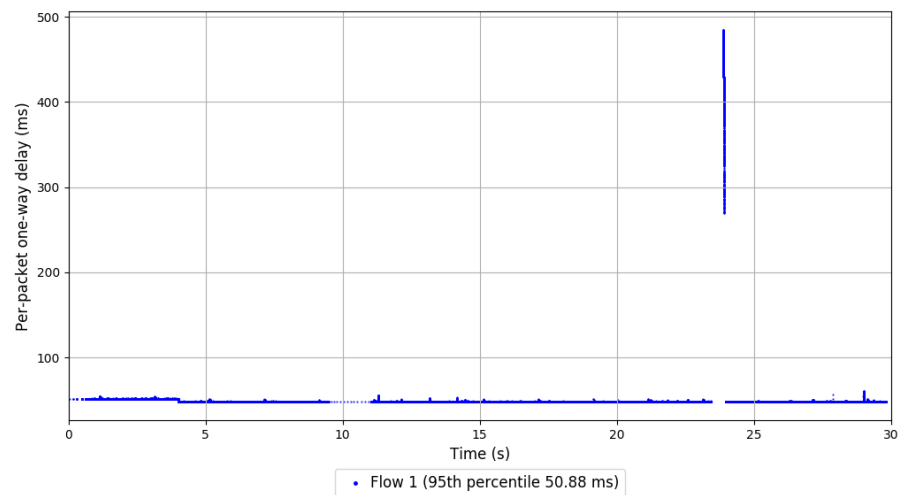
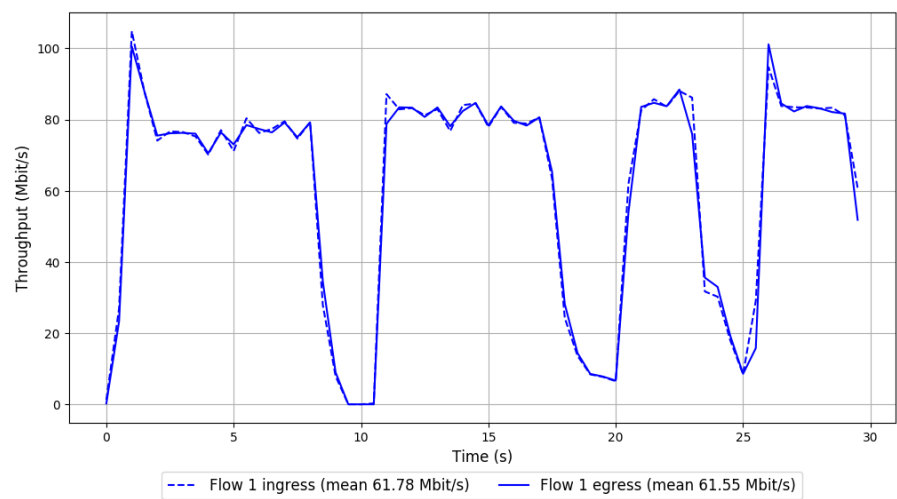
-- Flow 1:

Average throughput: 61.55 Mbit/s

95th percentile per-packet one-way delay: 50.875 ms

Loss rate: 0.72%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

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

End at: 2018-01-09 01:28:31

Below is generated by plot.py at 2018-01-09 05:06:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.28 Mbit/s

95th percentile per-packet one-way delay: 51.176 ms

Loss rate: 0.39%

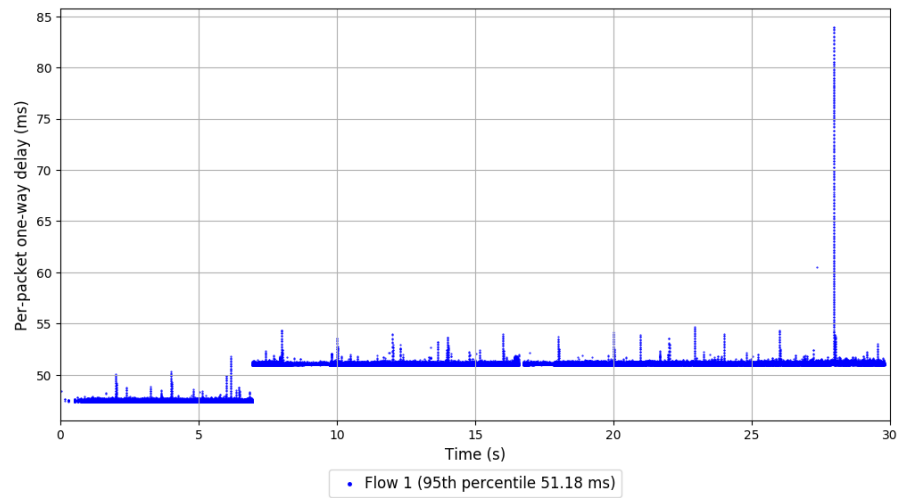
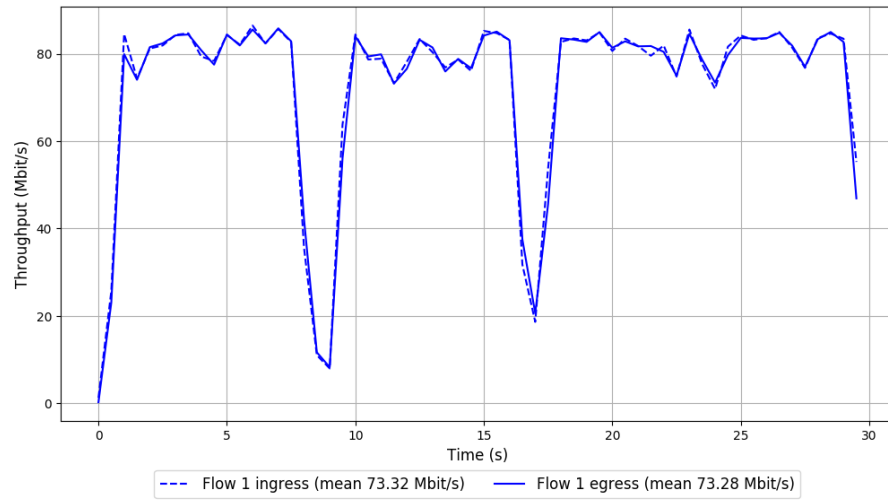
-- Flow 1:

Average throughput: 73.28 Mbit/s

95th percentile per-packet one-way delay: 51.176 ms

Loss rate: 0.39%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-01-09 01:39:14

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

Below is generated by plot.py at 2018-01-09 05:06:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 76.13 Mbit/s

95th percentile per-packet one-way delay: 51.317 ms

Loss rate: 0.45%

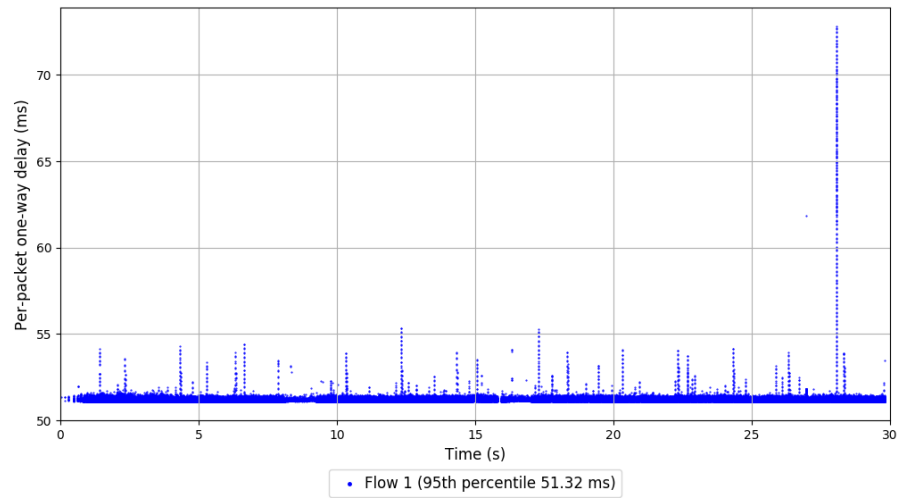
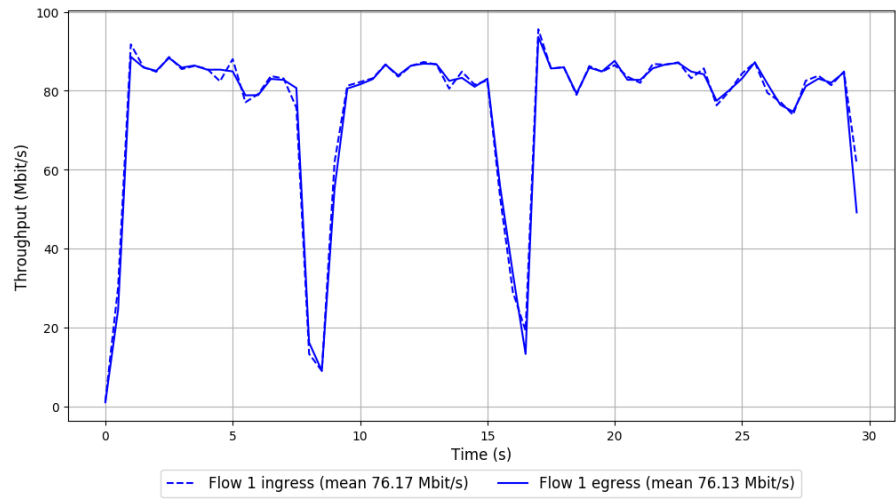
-- Flow 1:

Average throughput: 76.13 Mbit/s

95th percentile per-packet one-way delay: 51.317 ms

Loss rate: 0.45%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-01-09 01:50:51

End at: 2018-01-09 01:51:21

Below is generated by plot.py at 2018-01-09 05:06:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 64.63 Mbit/s

95th percentile per-packet one-way delay: 51.456 ms

Loss rate: 0.49%

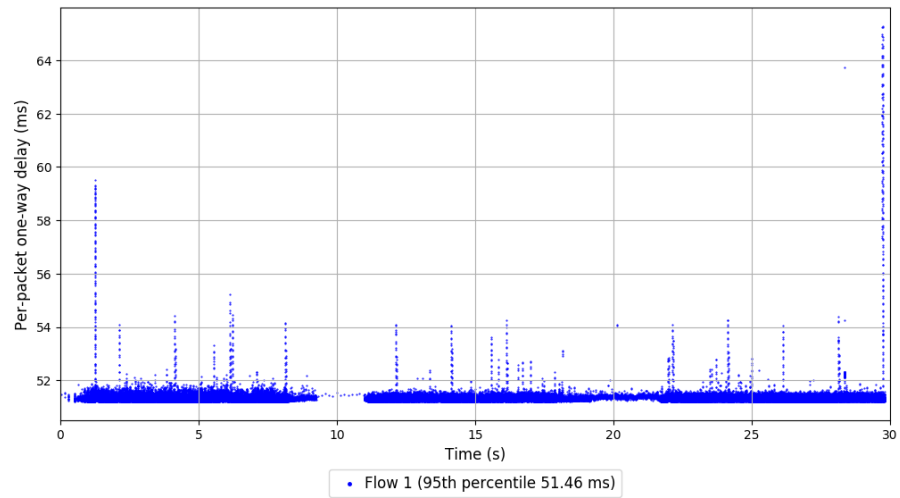
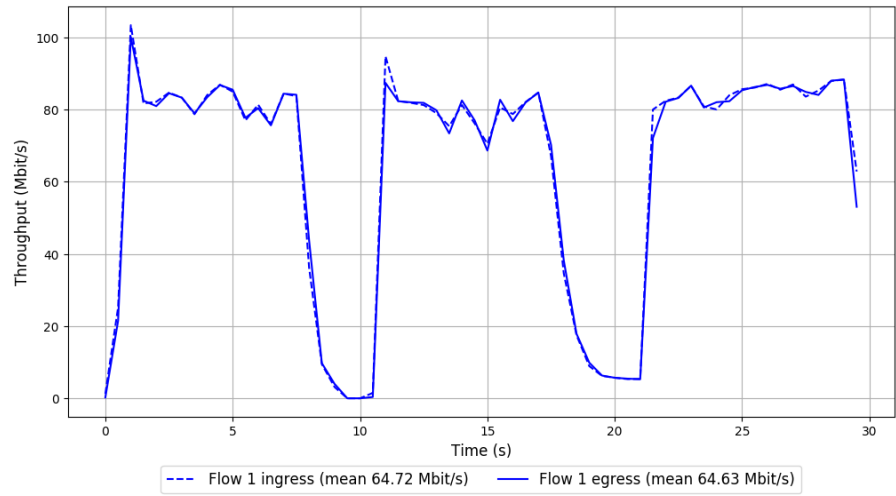
-- Flow 1:

Average throughput: 64.63 Mbit/s

95th percentile per-packet one-way delay: 51.456 ms

Loss rate: 0.49%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

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

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

Below is generated by plot.py at 2018-01-09 05:06:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 76.94 Mbit/s

95th percentile per-packet one-way delay: 48.705 ms

Loss rate: 0.38%

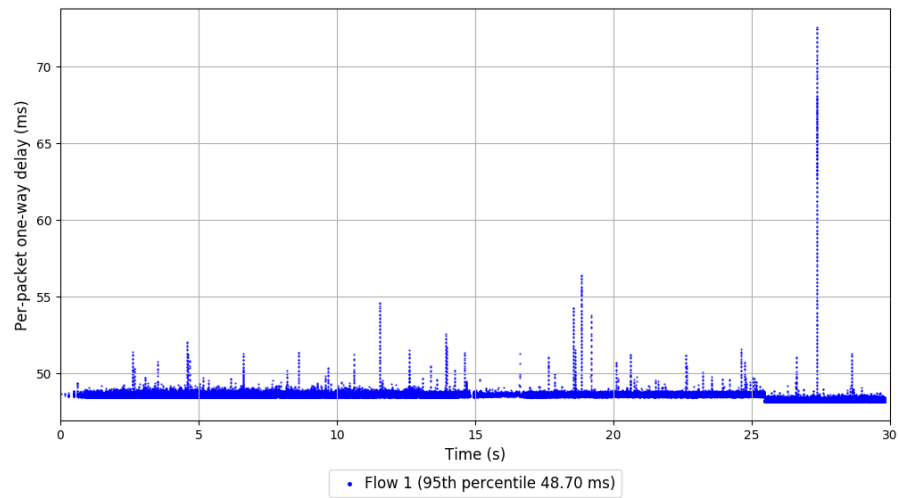
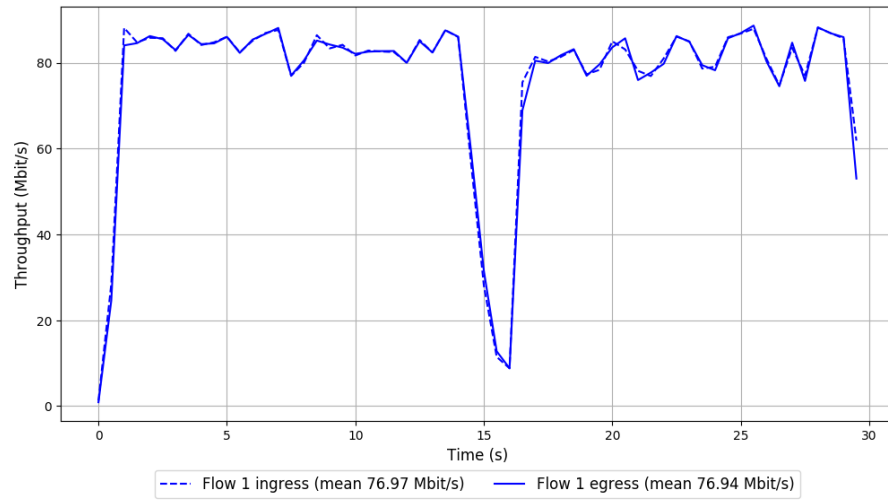
-- Flow 1:

Average throughput: 76.94 Mbit/s

95th percentile per-packet one-way delay: 48.705 ms

Loss rate: 0.38%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-01-09 02:13:17

End at: 2018-01-09 02:13:47

Below is generated by plot.py at 2018-01-09 05:06:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.68 Mbit/s

95th percentile per-packet one-way delay: 48.903 ms

Loss rate: 0.37%

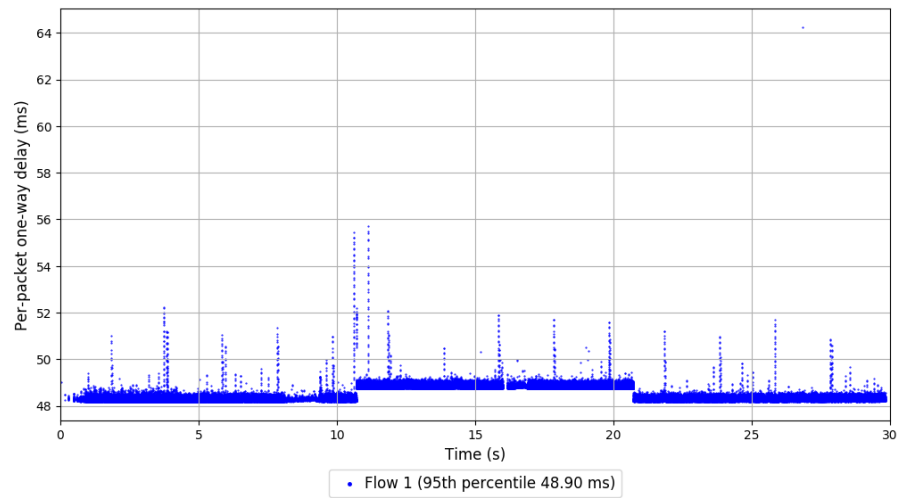
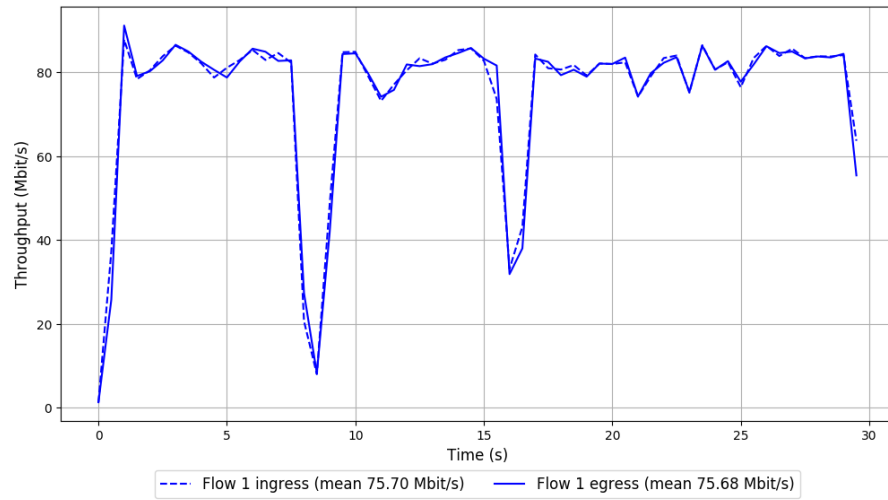
-- Flow 1:

Average throughput: 75.68 Mbit/s

95th percentile per-packet one-way delay: 48.903 ms

Loss rate: 0.37%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-01-09 02:24:36

End at: 2018-01-09 02:25:06

Below is generated by plot.py at 2018-01-09 05:06:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 76.40 Mbit/s

95th percentile per-packet one-way delay: 52.374 ms

Loss rate: 0.31%

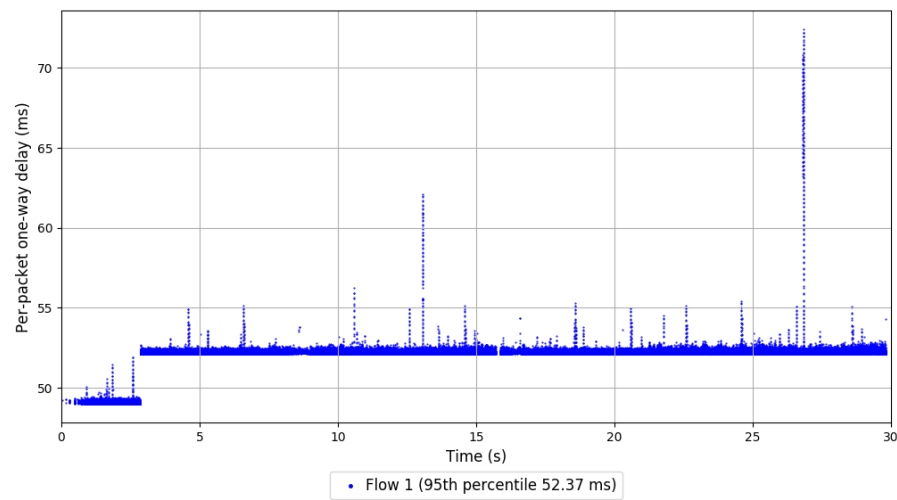
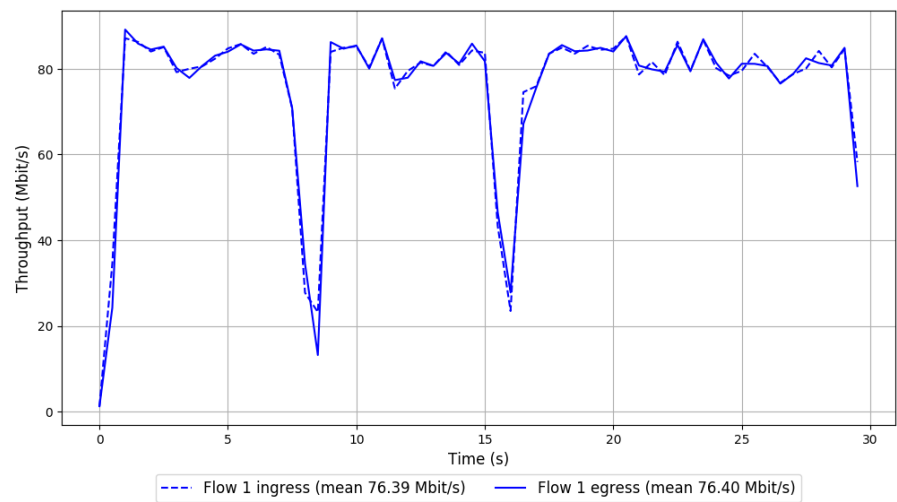
-- Flow 1:

Average throughput: 76.40 Mbit/s

95th percentile per-packet one-way delay: 52.374 ms

Loss rate: 0.31%

Run 9: Report of QUIC Cubic — Data Link

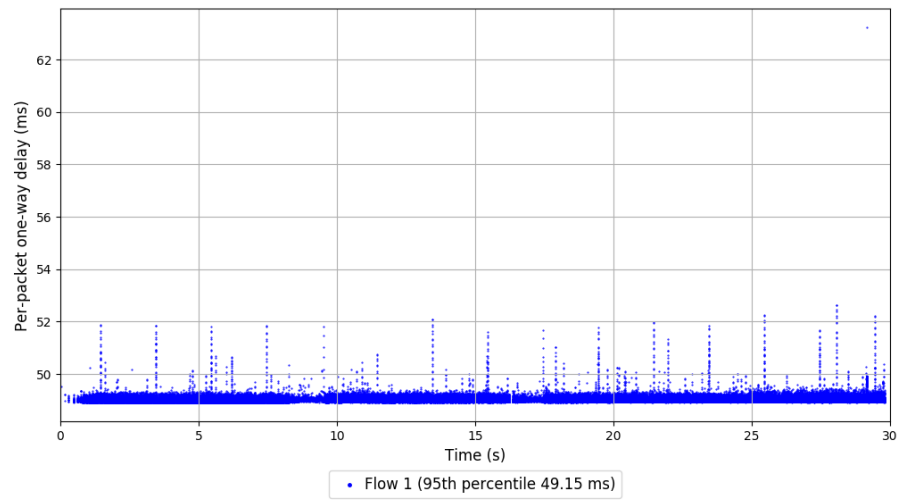
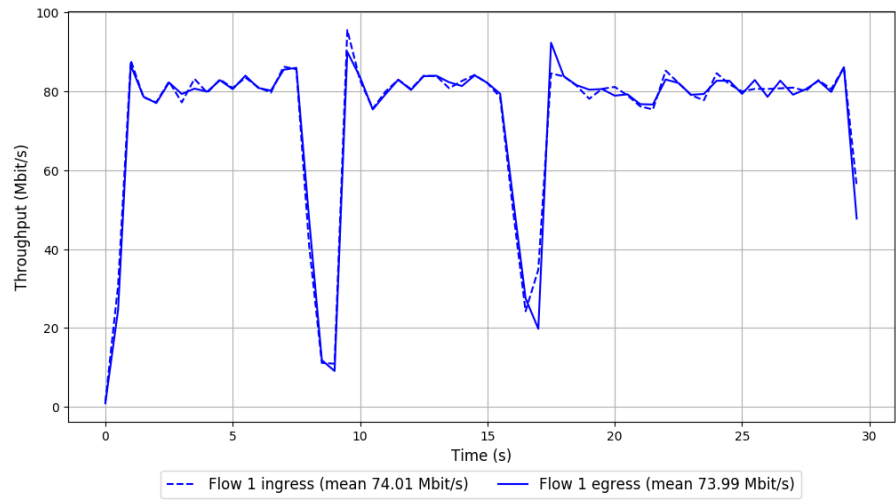


```
Run 10: Statistics of QUIC Cubic

Start at: 2018-01-09 02:35:59
End at: 2018-01-09 02:36:29

# Below is generated by plot.py at 2018-01-09 05:06:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 73.99 Mbit/s
95th percentile per-packet one-way delay: 49.153 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 73.99 Mbit/s
95th percentile per-packet one-way delay: 49.153 ms
Loss rate: 0.38%
```

Run 10: Report of QUIC Cubic — Data Link

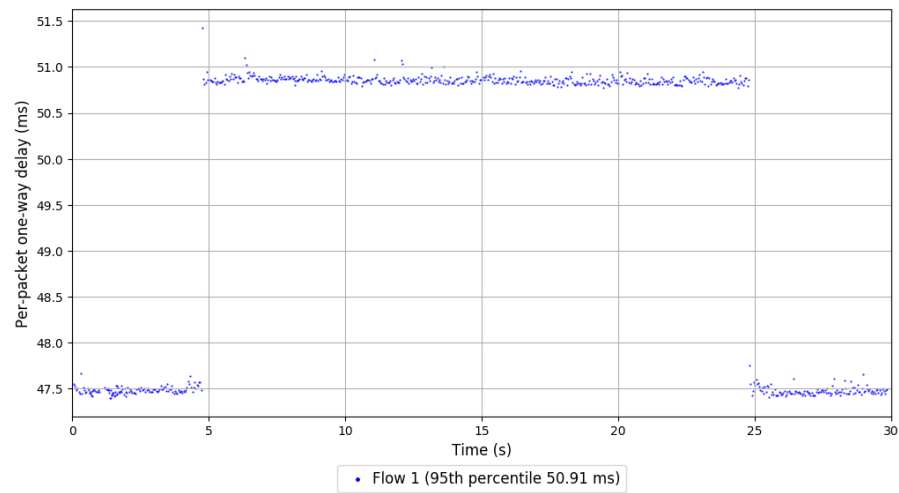
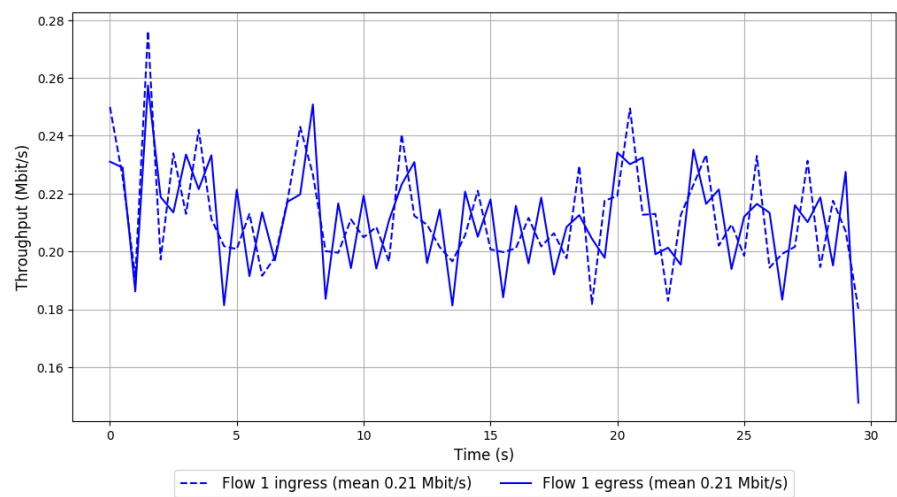


```
Run 1: Statistics of SCReAM

Start at: 2018-01-09 00:54:14
End at: 2018-01-09 00:54:44

# Below is generated by plot.py at 2018-01-09 05:06:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 50.907 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 50.907 ms
Loss rate: 0.38%
```

Run 1: Report of SReAM — Data Link

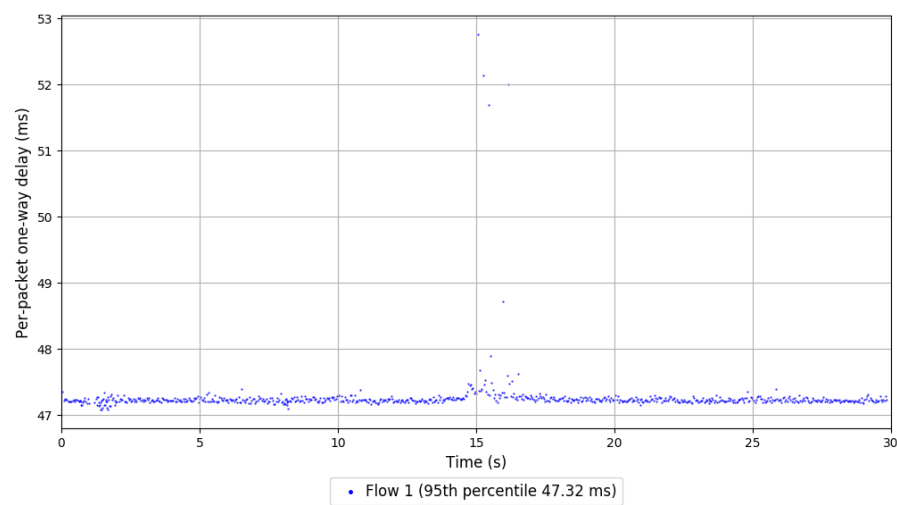
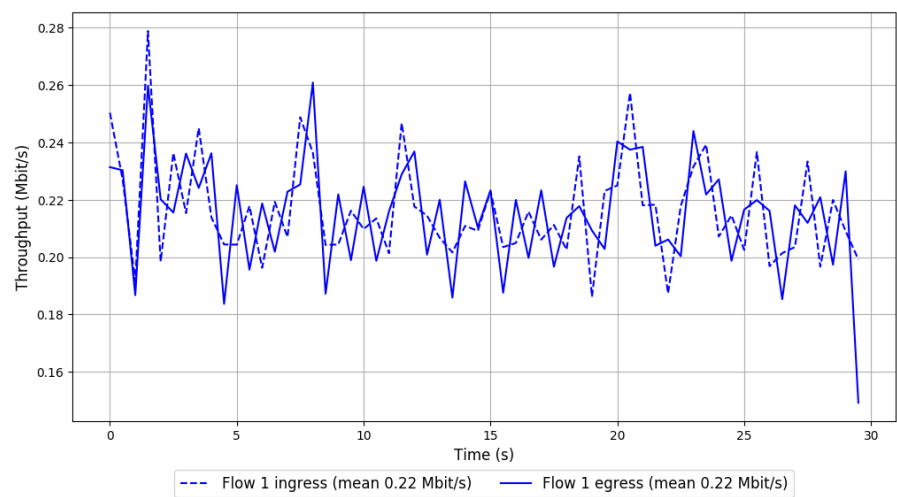


```
Run 2: Statistics of SCReAM

Start at: 2018-01-09 01:05:51
End at: 2018-01-09 01:06:21

# Below is generated by plot.py at 2018-01-09 05:06:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 47.324 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 47.324 ms
Loss rate: 0.51%
```

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-01-09 01:17:24

End at: 2018-01-09 01:17:54

Below is generated by plot.py at 2018-01-09 05:06:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 51.037 ms

Loss rate: 0.38%

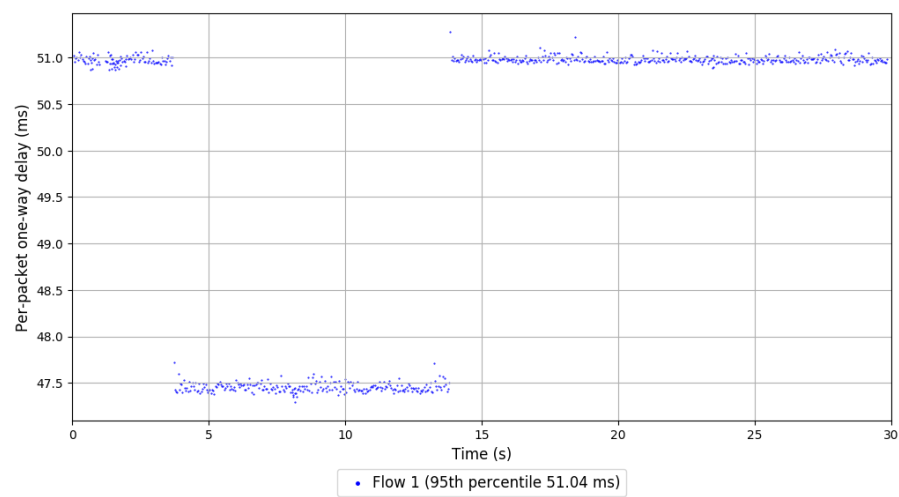
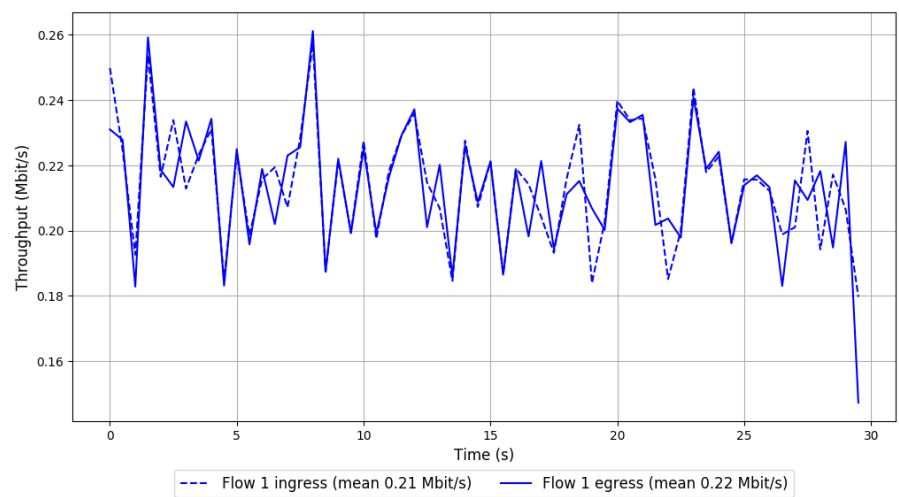
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 51.037 ms

Loss rate: 0.38%

Run 3: Report of SReAM — Data Link

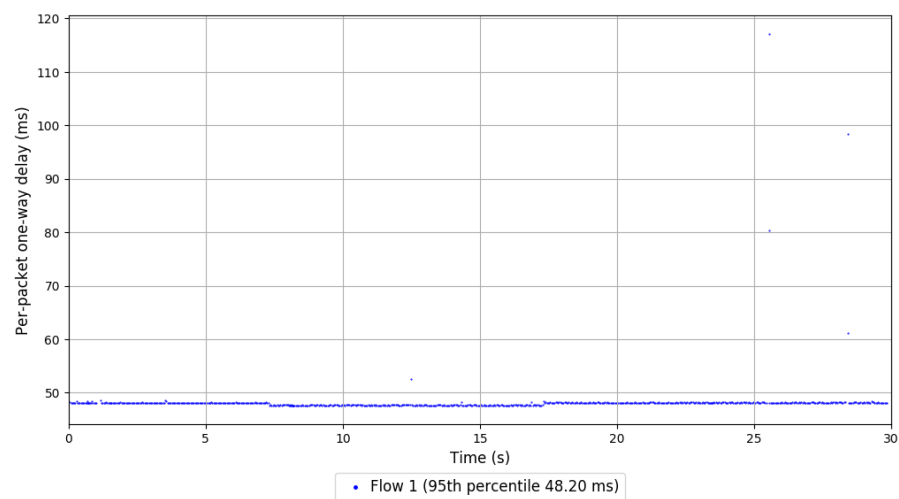
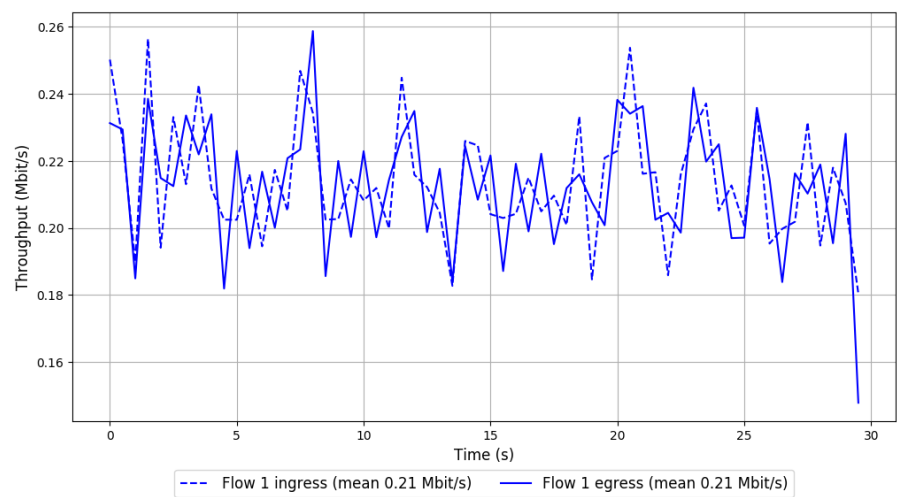


```
Run 4: Statistics of SCReAM

Start at: 2018-01-09 01:28:42
End at: 2018-01-09 01:29:12

# Below is generated by plot.py at 2018-01-09 05:06:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 48.205 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 48.205 ms
Loss rate: 0.38%
```

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2018-01-09 01:39:56

End at: 2018-01-09 01:40:26

Below is generated by plot.py at 2018-01-09 05:06:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 51.368 ms

Loss rate: 0.38%

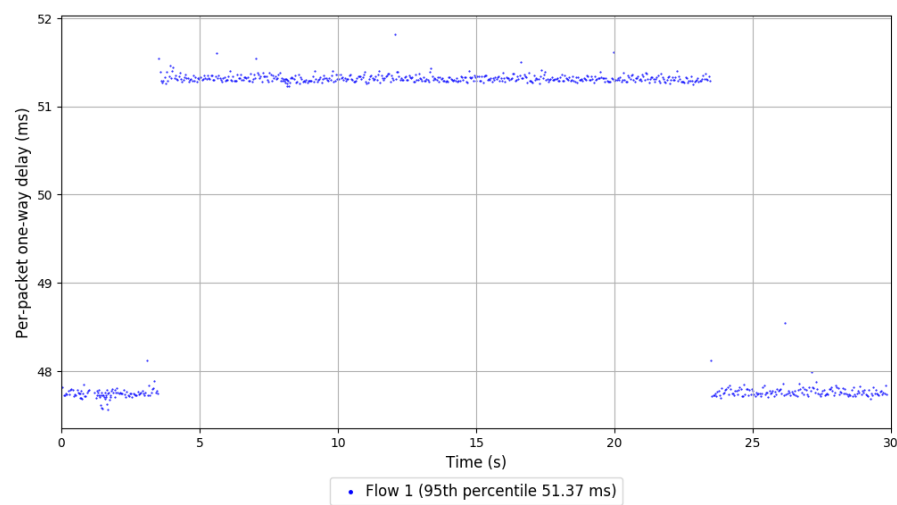
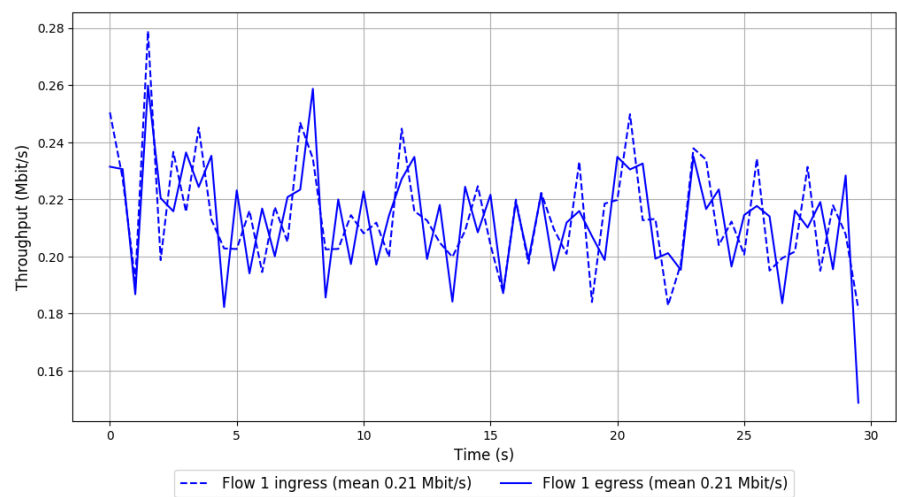
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 51.368 ms

Loss rate: 0.38%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-01-09 01:51:31

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

Below is generated by plot.py at 2018-01-09 05:06:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 51.455 ms

Loss rate: 0.38%

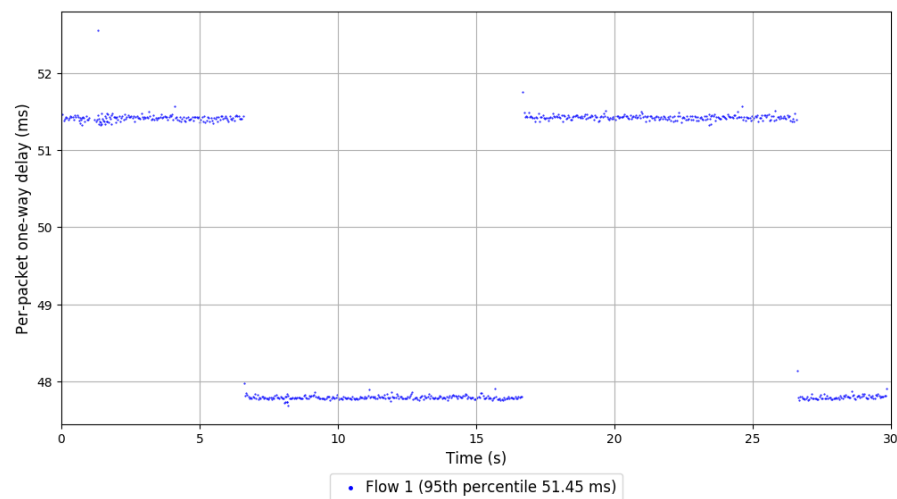
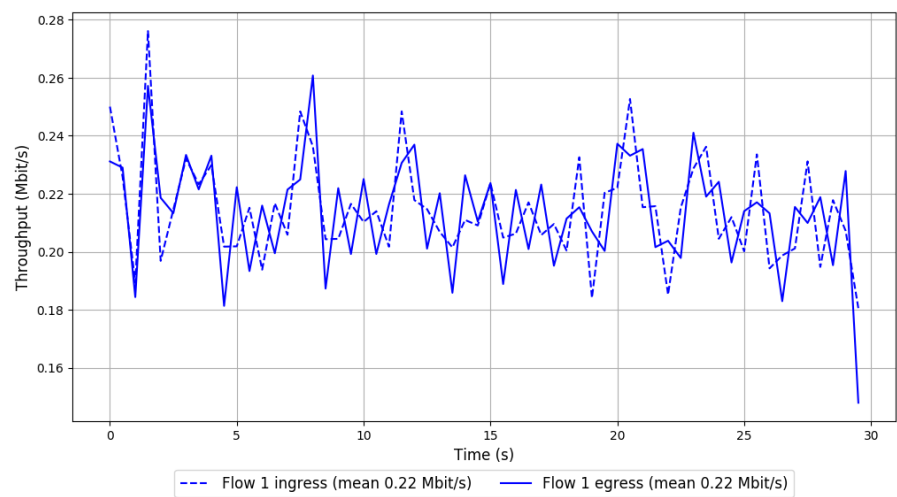
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 51.455 ms

Loss rate: 0.38%

Run 6: Report of SReAM — Data Link

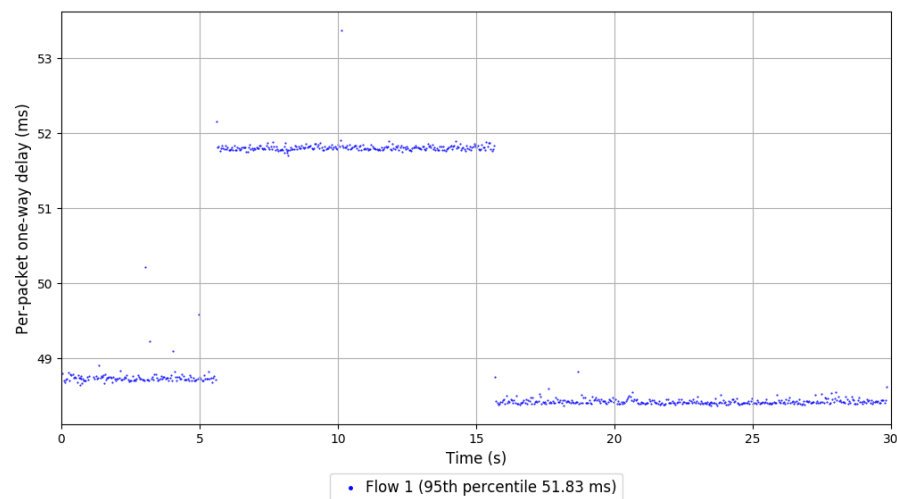
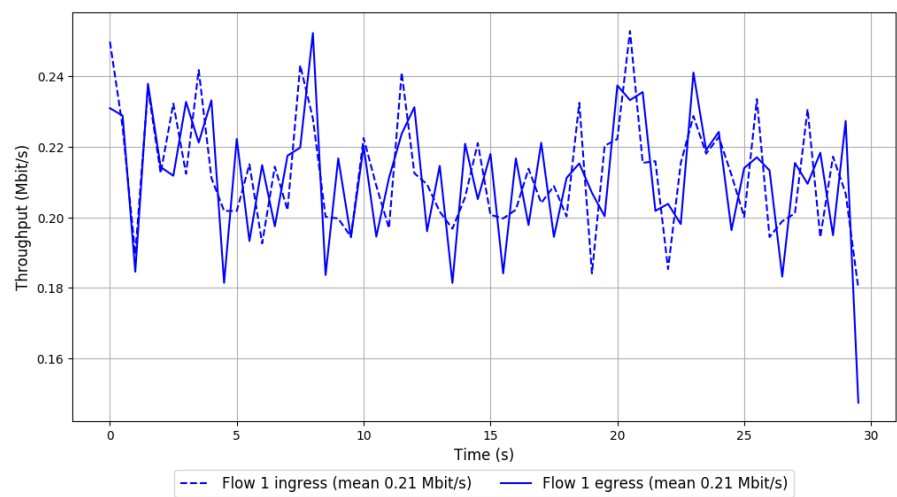


```
Run 7: Statistics of SCReAM

Start at: 2018-01-09 02:03:13
End at: 2018-01-09 02:03:44

# Below is generated by plot.py at 2018-01-09 05:06:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 51.833 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 51.833 ms
Loss rate: 0.38%
```

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-01-09 02:13:58

End at: 2018-01-09 02:14:28

Below is generated by plot.py at 2018-01-09 05:06:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.12 Mbit/s

95th percentile per-packet one-way delay: 48.445 ms

Loss rate: 0.16%

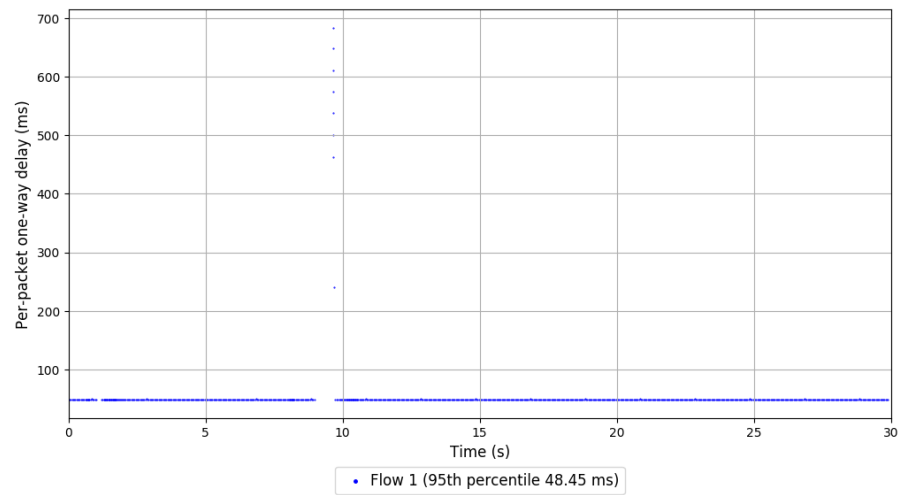
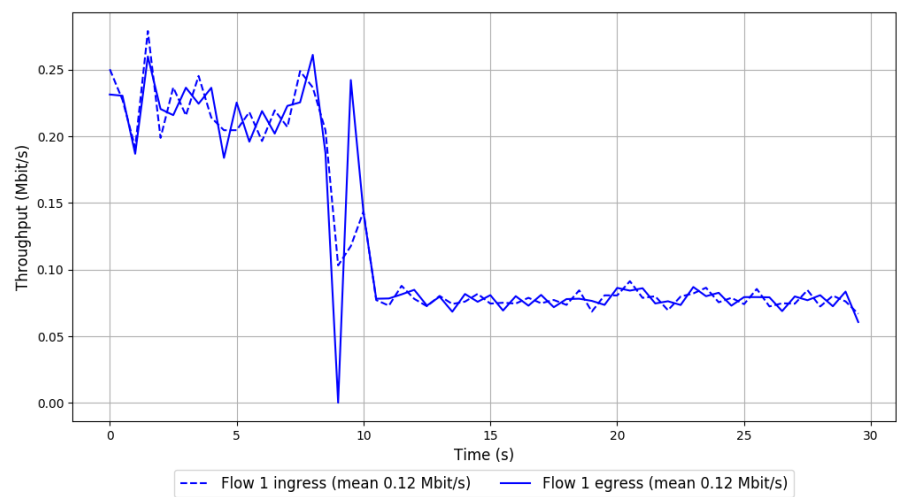
-- Flow 1:

Average throughput: 0.12 Mbit/s

95th percentile per-packet one-way delay: 48.445 ms

Loss rate: 0.16%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-01-09 02:25:18

End at: 2018-01-09 02:25:48

Below is generated by plot.py at 2018-01-09 05:06:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 52.397 ms

Loss rate: 0.37%

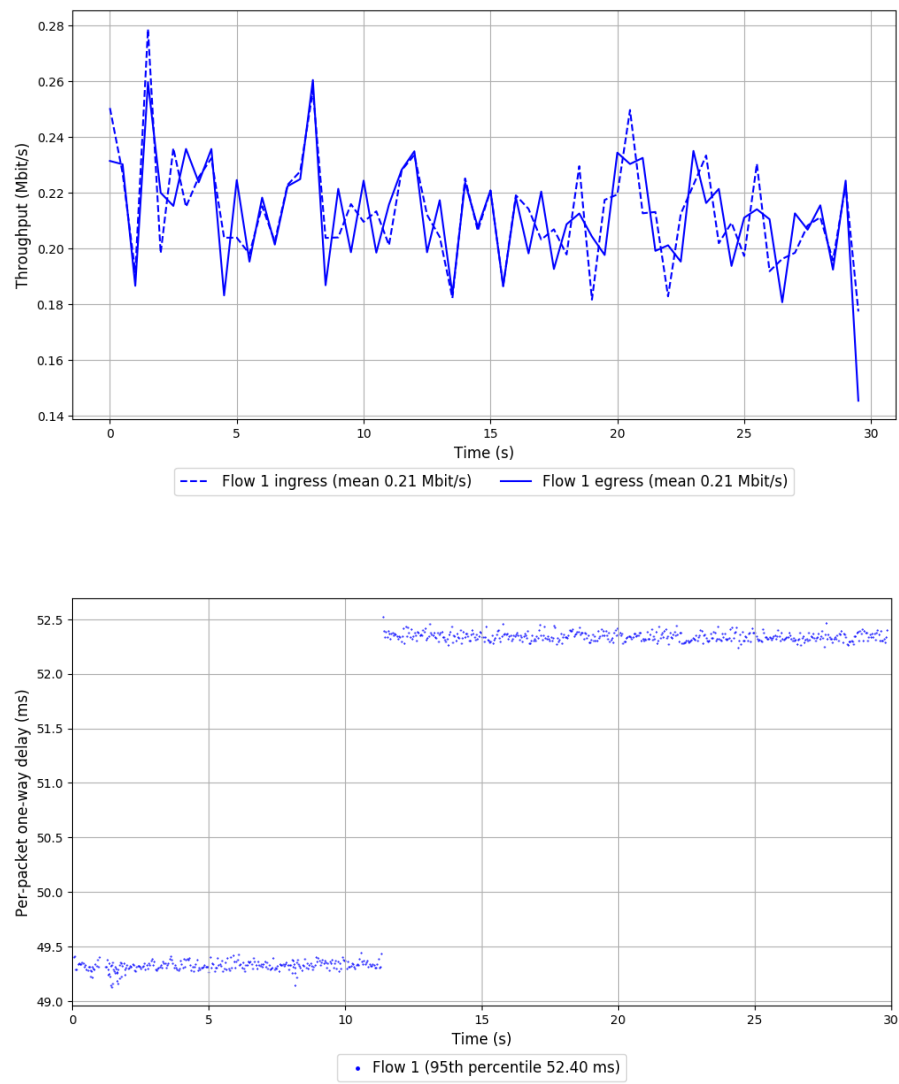
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 52.397 ms

Loss rate: 0.37%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-01-09 02:36:40

End at: 2018-01-09 02:37:10

Below is generated by plot.py at 2018-01-09 05:06:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 49.207 ms

Loss rate: 0.38%

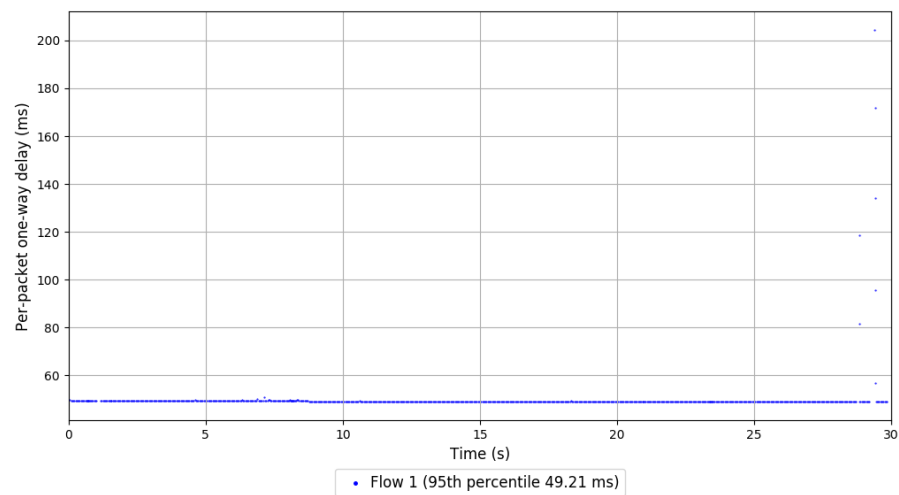
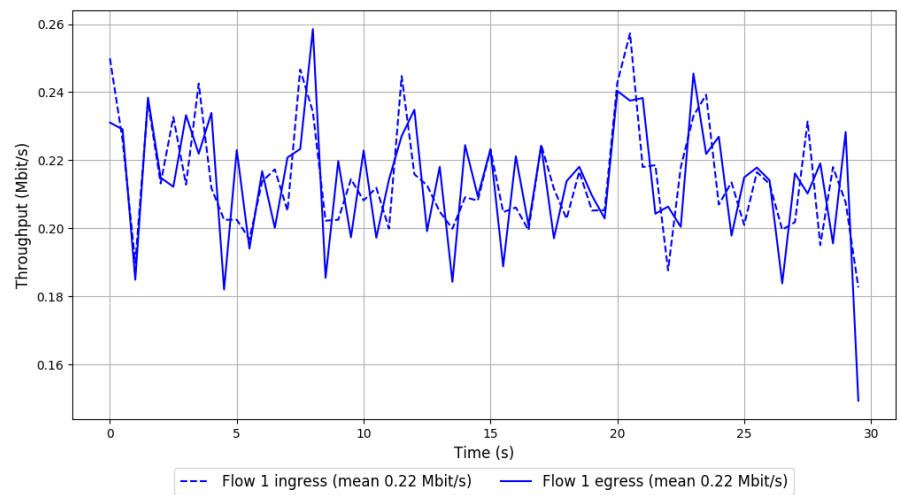
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 49.207 ms

Loss rate: 0.38%

Run 10: Report of SReAM — Data Link

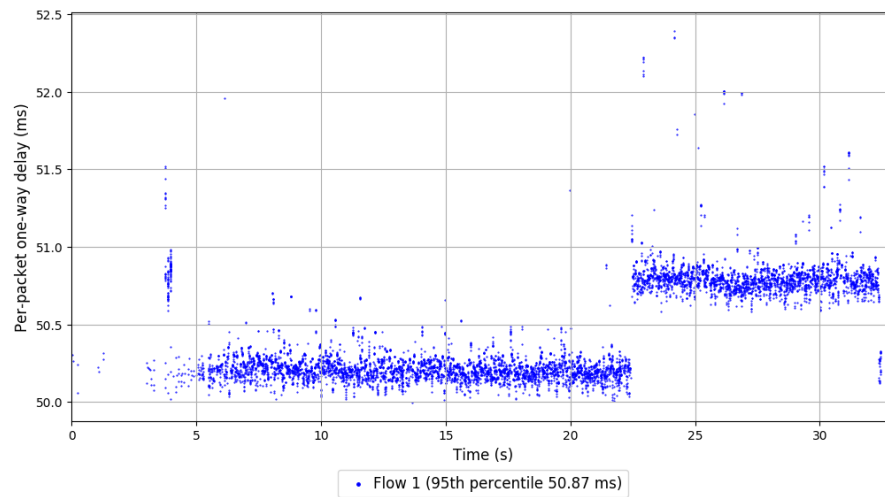
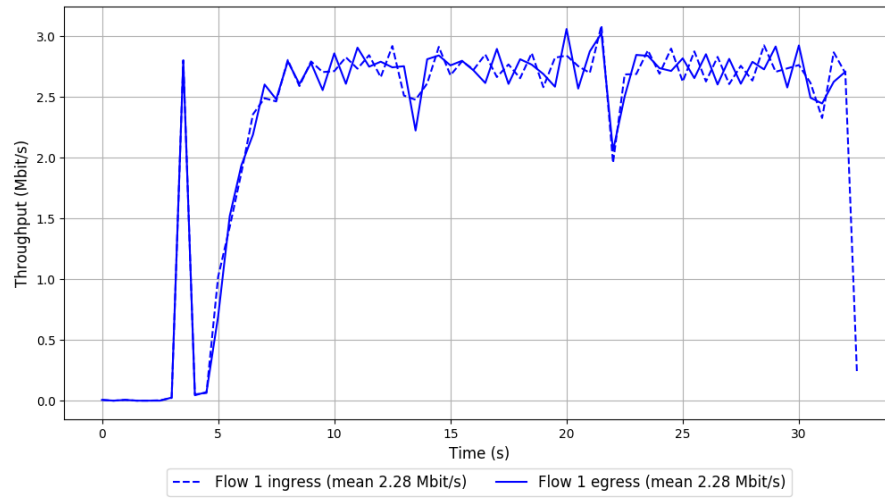


```
Run 1: Statistics of WebRTC media

Start at: 2018-01-09 00:55:29
End at: 2018-01-09 00:55:59

# Below is generated by plot.py at 2018-01-09 05:06:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.28 Mbit/s
95th percentile per-packet one-way delay: 50.869 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 2.28 Mbit/s
95th percentile per-packet one-way delay: 50.869 ms
Loss rate: 0.45%
```

Run 1: Report of WebRTC media — Data Link

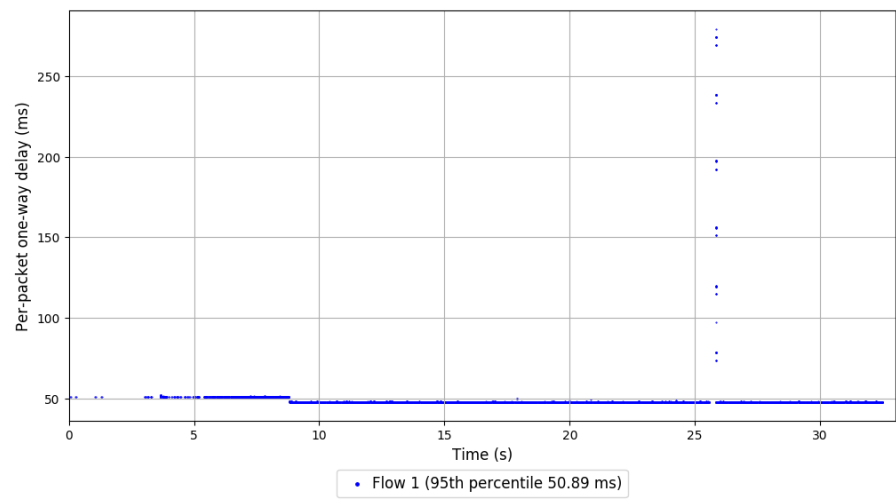
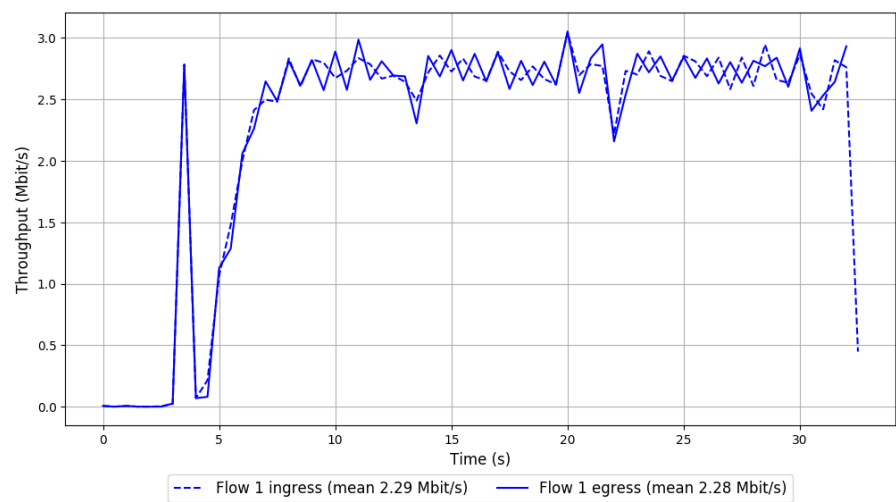


```
Run 2: Statistics of WebRTC media

Start at: 2018-01-09 01:07:13
End at: 2018-01-09 01:07:43

# Below is generated by plot.py at 2018-01-09 05:06:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.28 Mbit/s
95th percentile per-packet one-way delay: 50.891 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 2.28 Mbit/s
95th percentile per-packet one-way delay: 50.891 ms
Loss rate: 0.45%
```

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-01-09 01:18:40

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

Below is generated by plot.py at 2018-01-09 05:06:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 51.145 ms

Loss rate: 0.40%

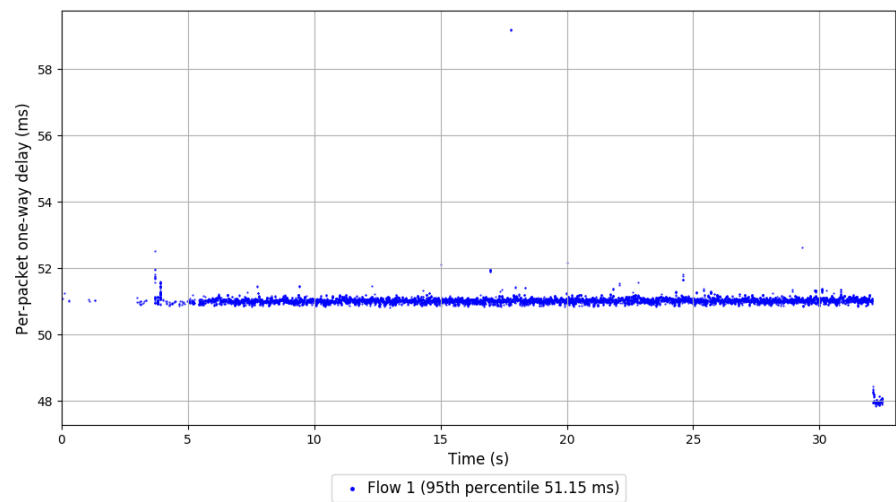
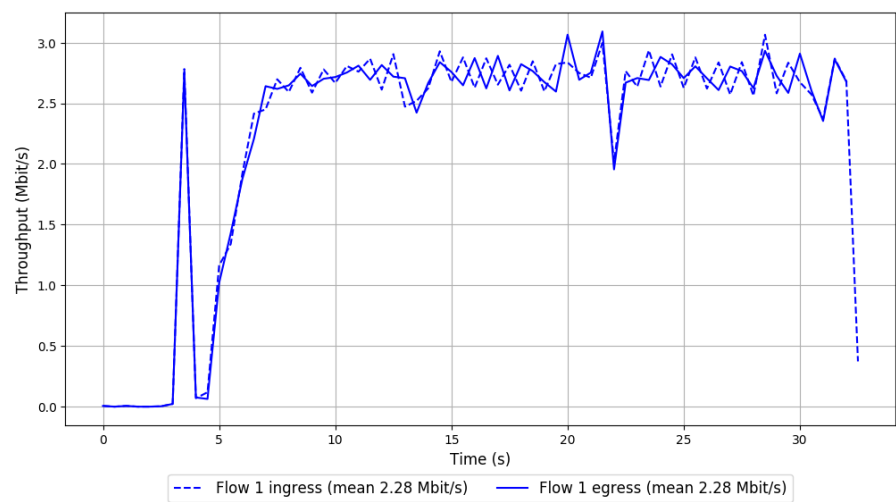
-- Flow 1:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 51.145 ms

Loss rate: 0.40%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-01-09 01:29:58

End at: 2018-01-09 01:30:28

Below is generated by plot.py at 2018-01-09 05:06:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 51.312 ms

Loss rate: 0.45%

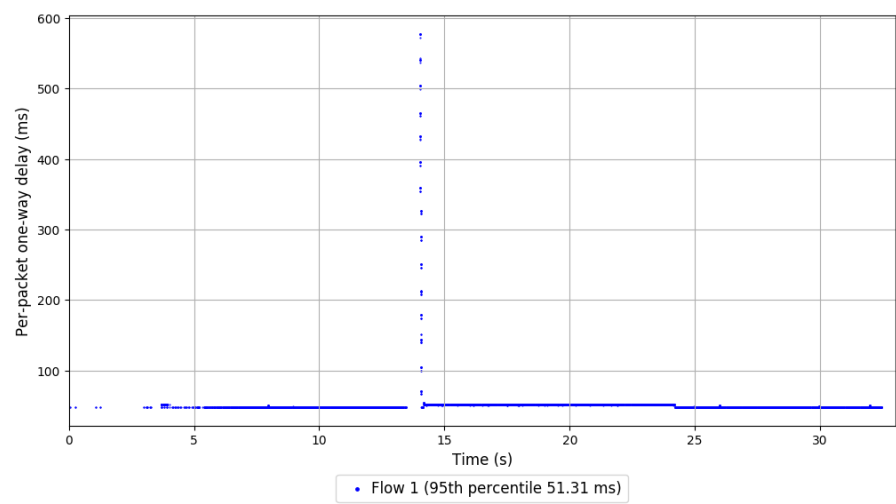
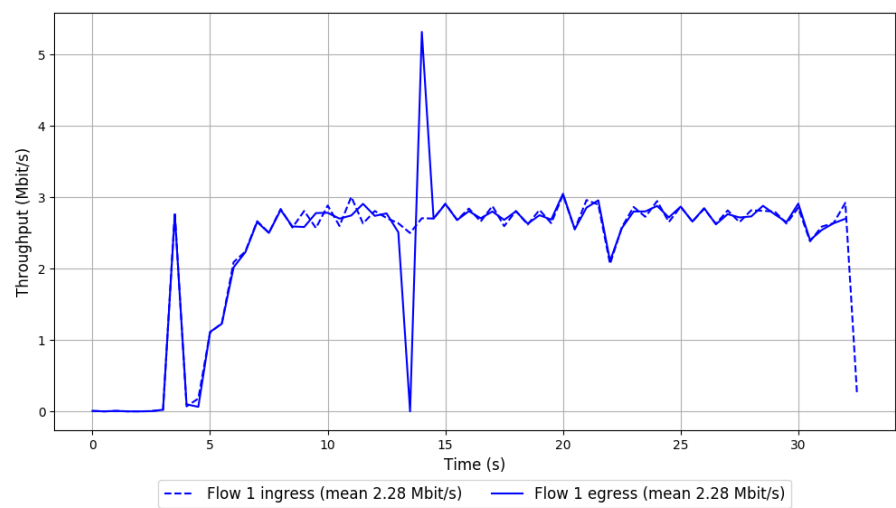
-- Flow 1:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 51.312 ms

Loss rate: 0.45%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-01-09 01:41:22

End at: 2018-01-09 01:41:52

Below is generated by plot.py at 2018-01-09 05:06:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 47.890 ms

Loss rate: 0.45%

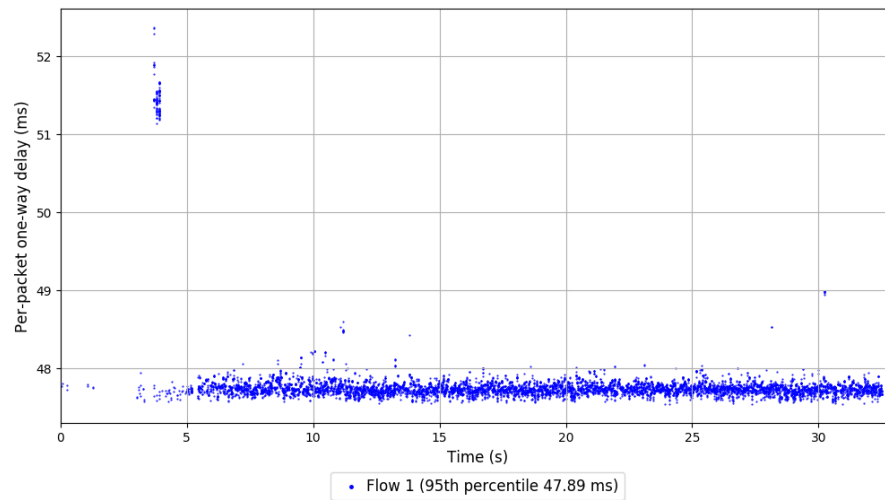
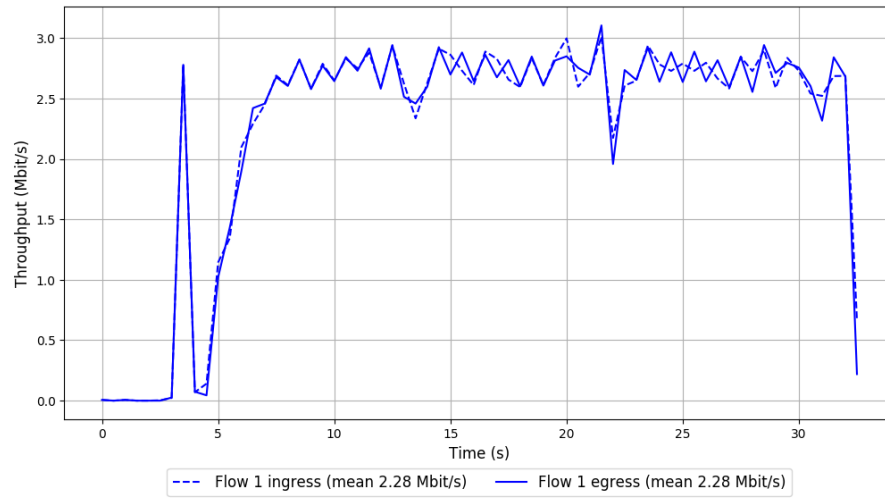
-- Flow 1:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 47.890 ms

Loss rate: 0.45%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-01-09 01:53:05

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

Below is generated by plot.py at 2018-01-09 05:06:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 48.232 ms

Loss rate: 0.30%

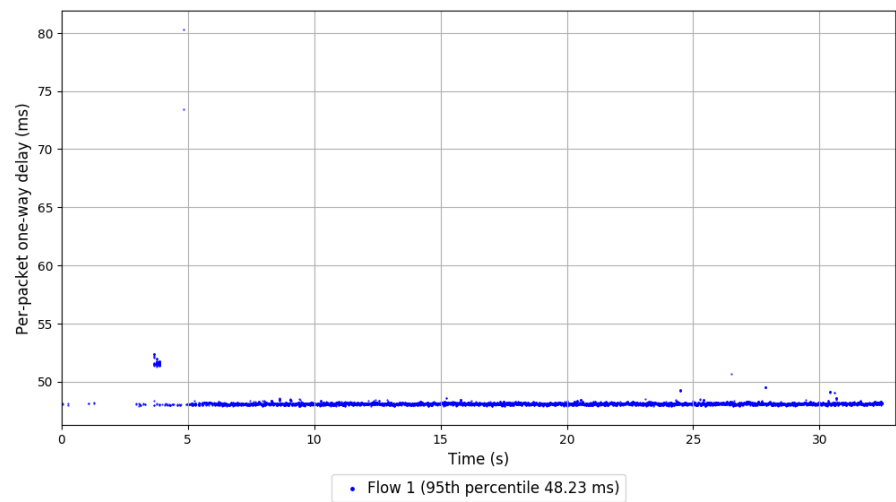
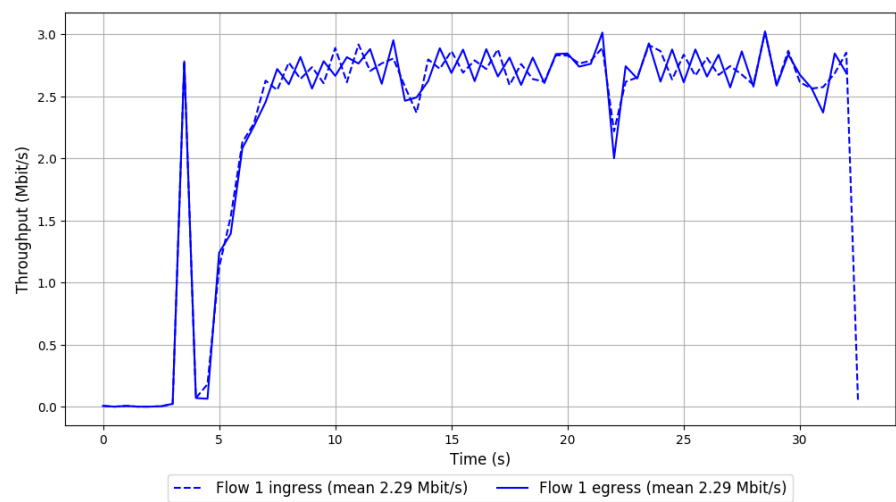
-- Flow 1:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 48.232 ms

Loss rate: 0.30%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-01-09 02:04:29

End at: 2018-01-09 02:04:59

Below is generated by plot.py at 2018-01-09 05:06:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 51.944 ms

Loss rate: 0.29%

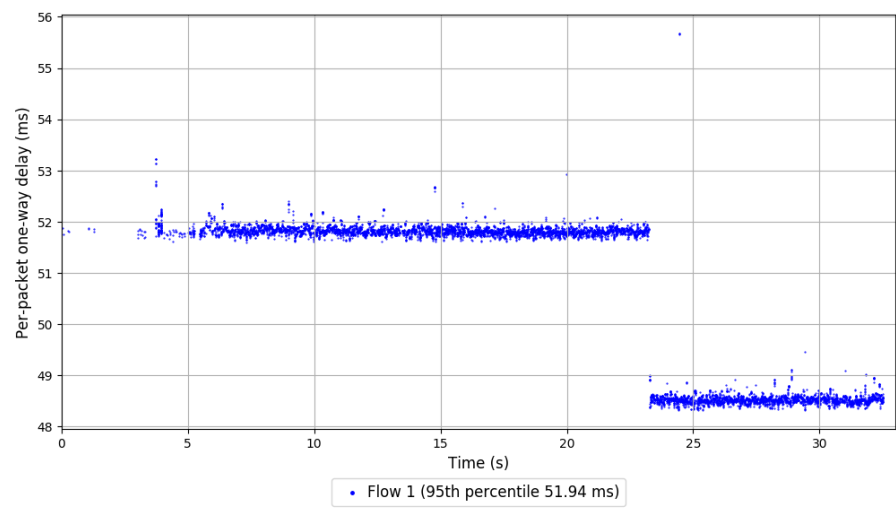
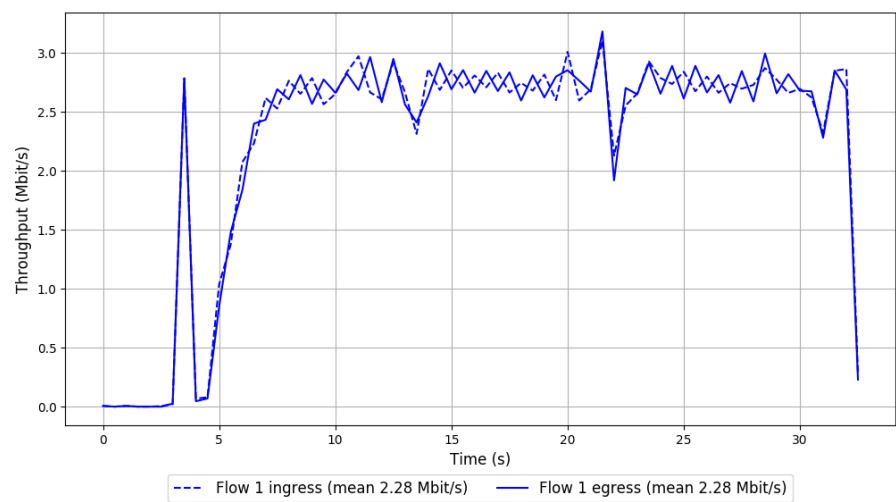
-- Flow 1:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 51.944 ms

Loss rate: 0.29%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-01-09 02:15:24

End at: 2018-01-09 02:15:54

Below is generated by plot.py at 2018-01-09 05:06:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 48.531 ms

Loss rate: 0.34%

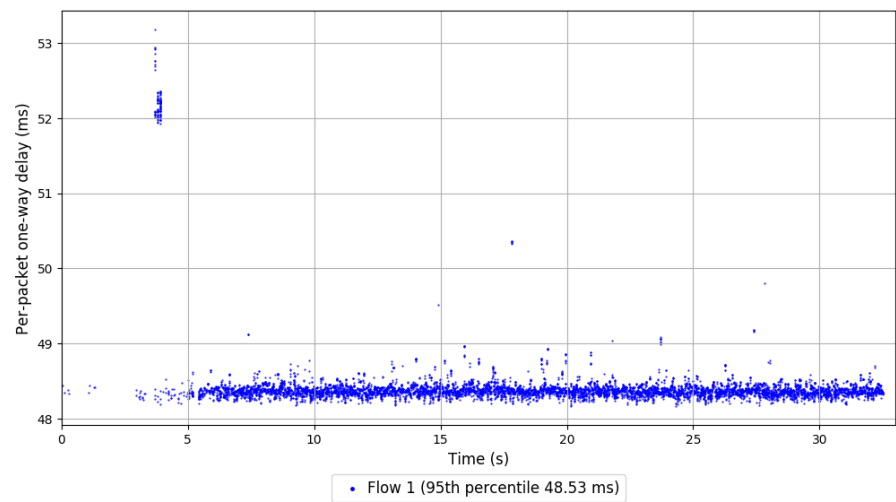
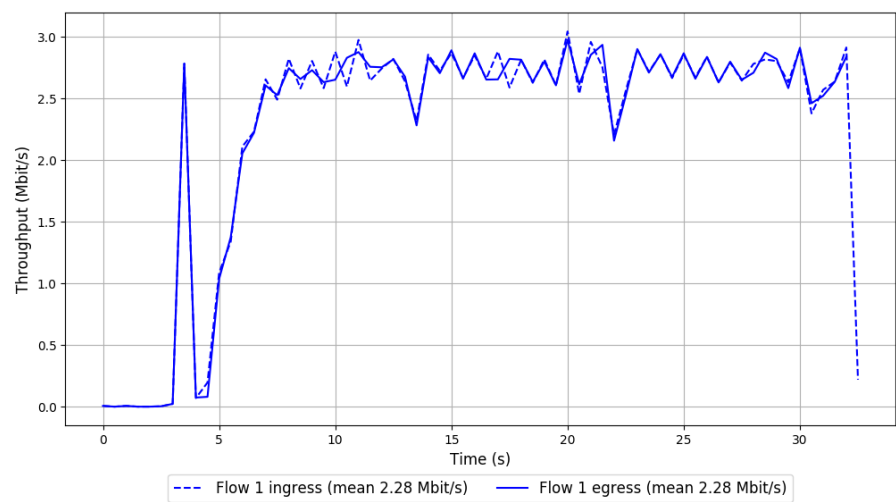
-- Flow 1:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 48.531 ms

Loss rate: 0.34%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-01-09 02:26:33

End at: 2018-01-09 02:27:03

Below is generated by plot.py at 2018-01-09 05:06:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 48.799 ms

Loss rate: 0.30%

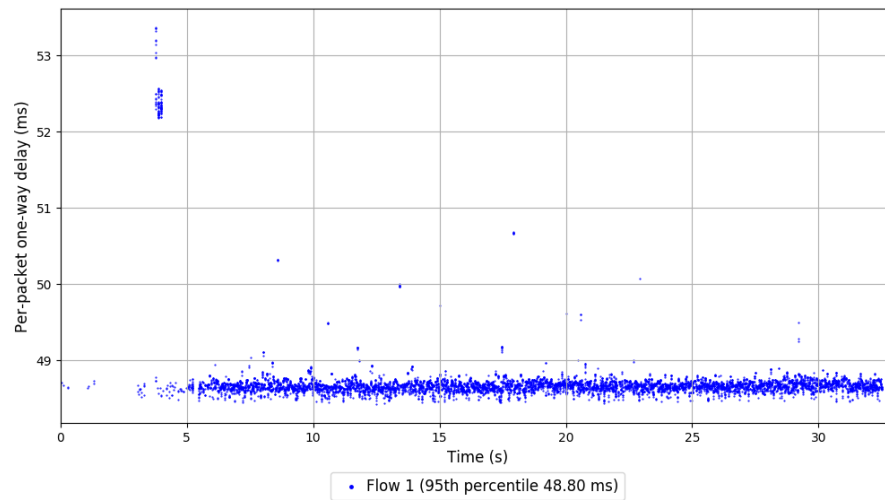
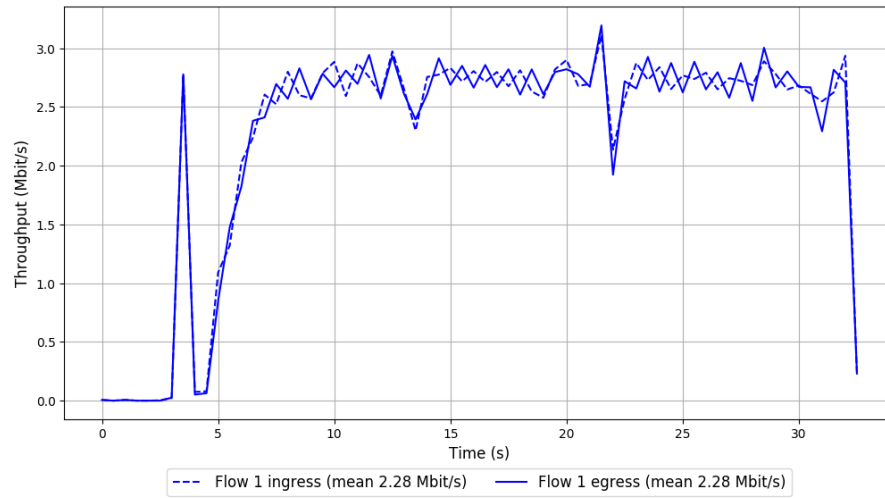
-- Flow 1:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 48.799 ms

Loss rate: 0.30%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-01-09 02:38:03

End at: 2018-01-09 02:38:33

Below is generated by plot.py at 2018-01-09 05:06:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 52.607 ms

Loss rate: 0.45%

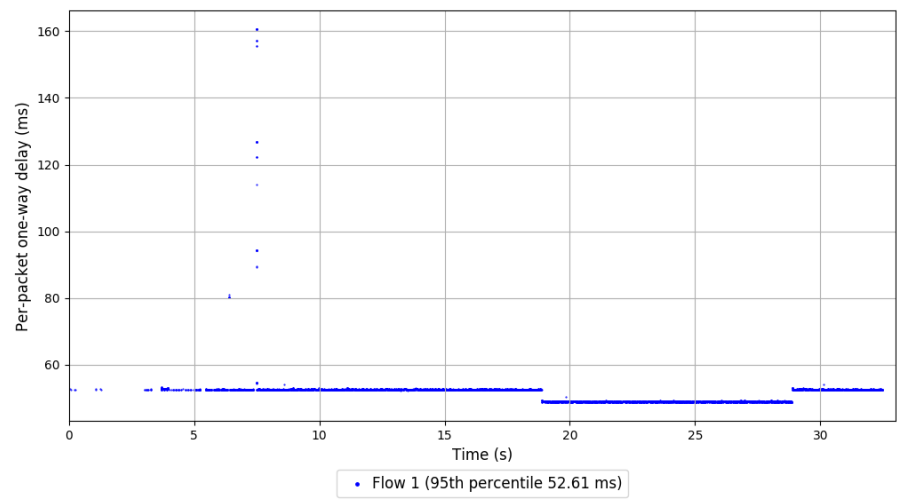
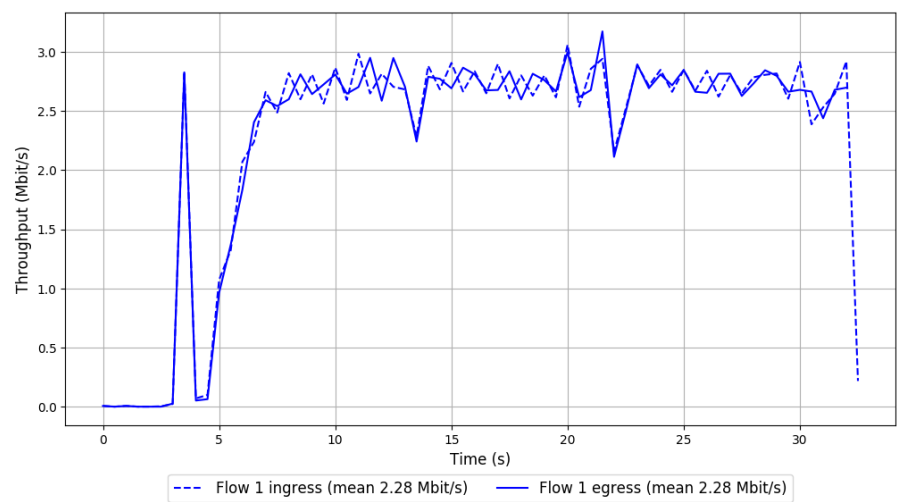
-- Flow 1:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 52.607 ms

Loss rate: 0.45%

Run 10: Report of WebRTC media — Data Link

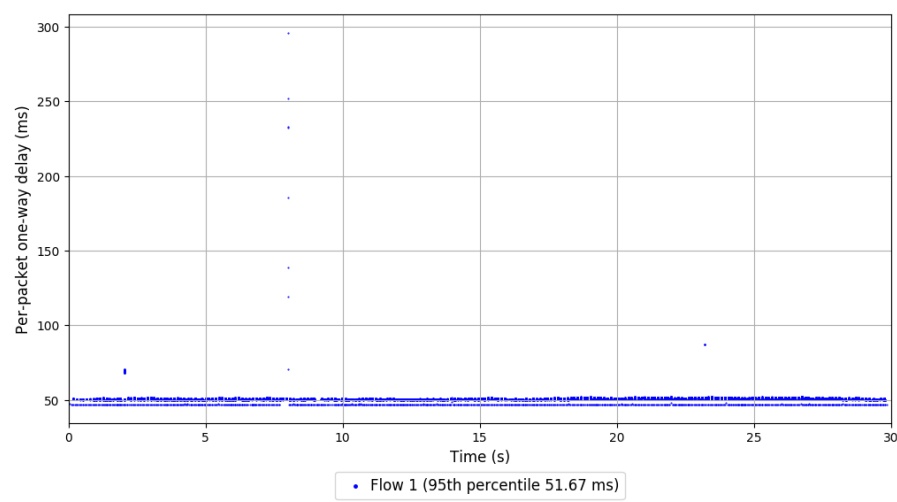
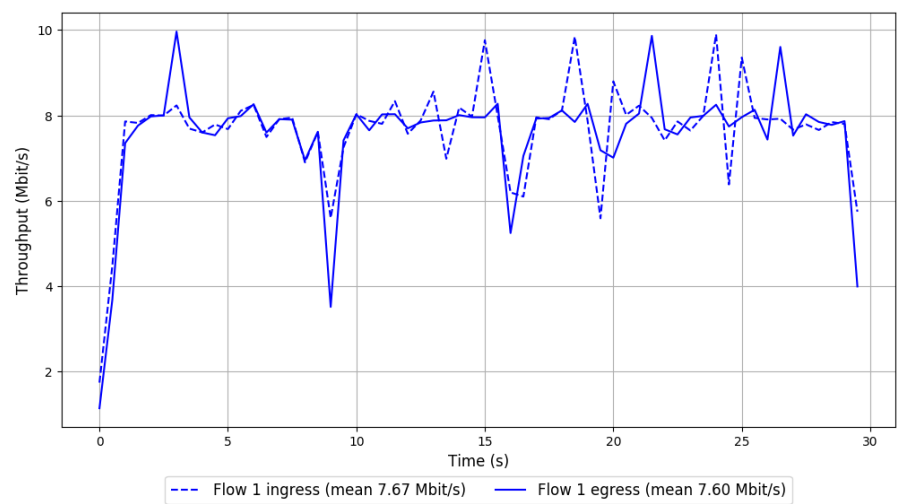


```
Run 1: Statistics of Sprout

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

# Below is generated by plot.py at 2018-01-09 05:06:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.60 Mbit/s
95th percentile per-packet one-way delay: 51.670 ms
Loss rate: 1.17%
-- Flow 1:
Average throughput: 7.60 Mbit/s
95th percentile per-packet one-way delay: 51.670 ms
Loss rate: 1.17%
```

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-01-09 01:11:44

End at: 2018-01-09 01:12:14

Below is generated by plot.py at 2018-01-09 05:06:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.37 Mbit/s

95th percentile per-packet one-way delay: 51.668 ms

Loss rate: 1.30%

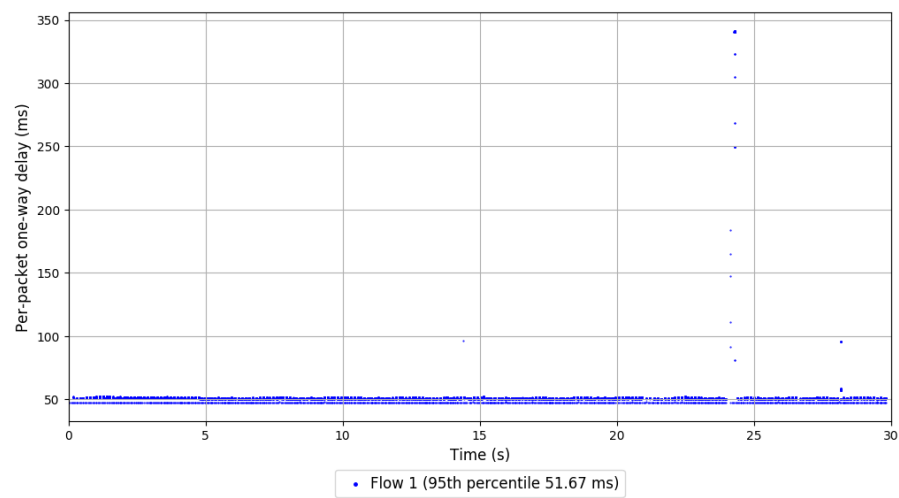
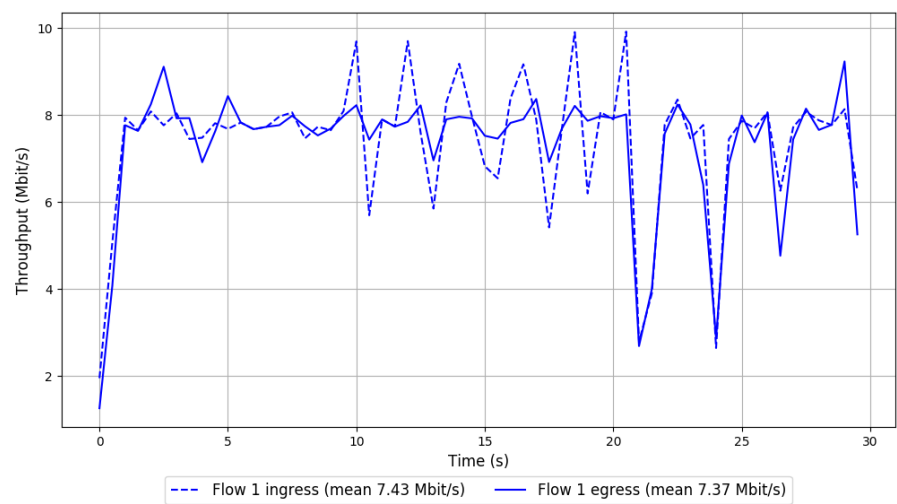
-- Flow 1:

Average throughput: 7.37 Mbit/s

95th percentile per-packet one-way delay: 51.668 ms

Loss rate: 1.30%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-01-09 01:23:07

End at: 2018-01-09 01:23:37

Below is generated by plot.py at 2018-01-09 05:06:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.63 Mbit/s

95th percentile per-packet one-way delay: 52.104 ms

Loss rate: 0.89%

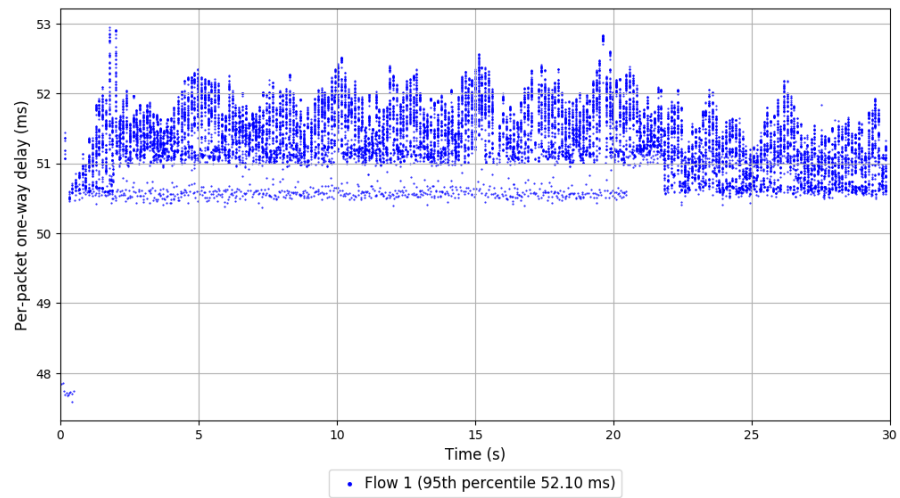
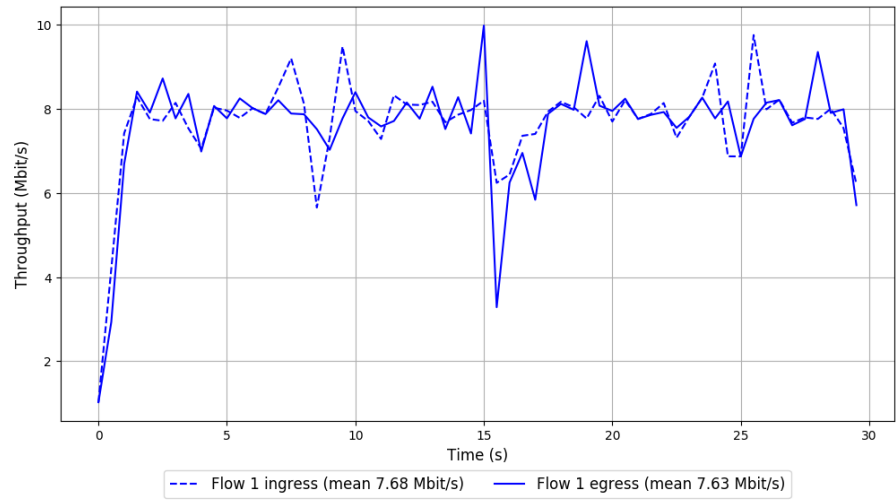
-- Flow 1:

Average throughput: 7.63 Mbit/s

95th percentile per-packet one-way delay: 52.104 ms

Loss rate: 0.89%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-01-09 01:34:28

End at: 2018-01-09 01:34:58

Below is generated by plot.py at 2018-01-09 05:06:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.72 Mbit/s

95th percentile per-packet one-way delay: 52.513 ms

Loss rate: 0.41%

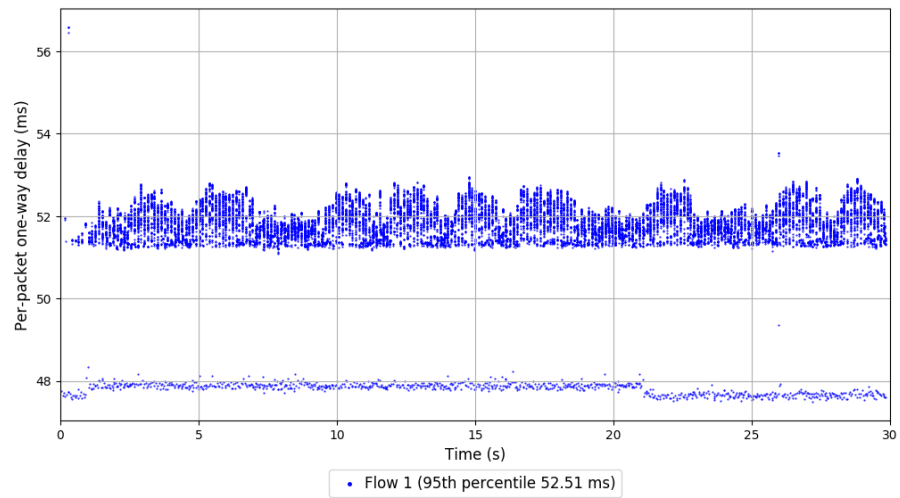
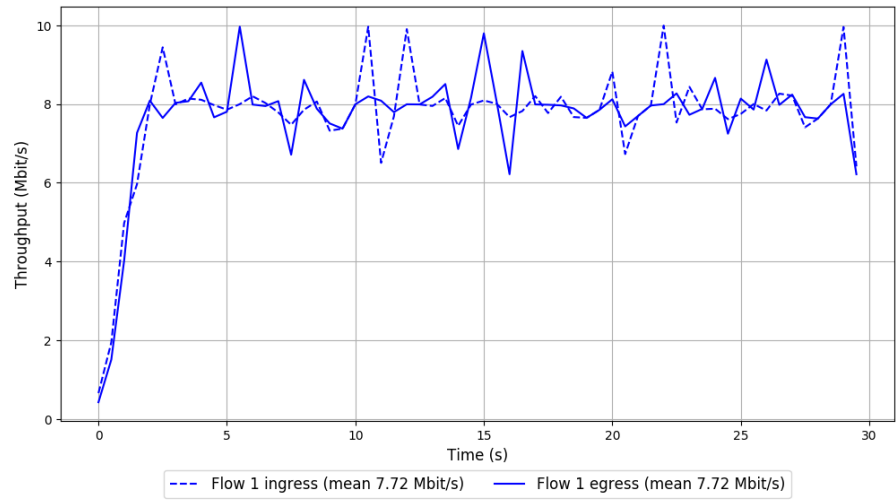
-- Flow 1:

Average throughput: 7.72 Mbit/s

95th percentile per-packet one-way delay: 52.513 ms

Loss rate: 0.41%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-01-09 01:45:51

End at: 2018-01-09 01:46:21

Below is generated by plot.py at 2018-01-09 05:06:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.53 Mbit/s

95th percentile per-packet one-way delay: 52.729 ms

Loss rate: 0.86%

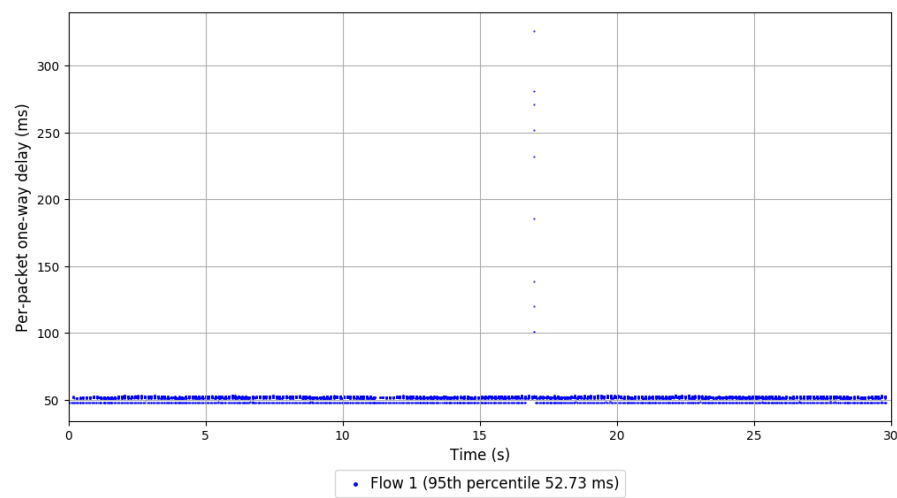
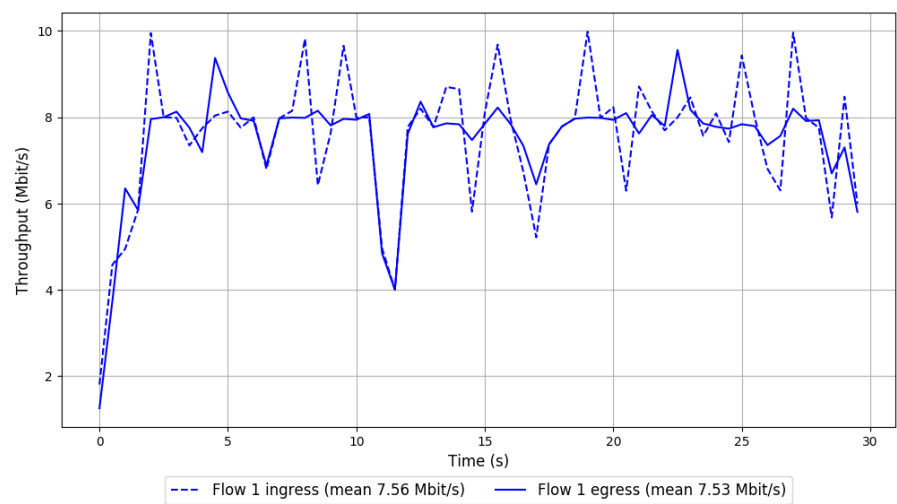
-- Flow 1:

Average throughput: 7.53 Mbit/s

95th percentile per-packet one-way delay: 52.729 ms

Loss rate: 0.86%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-01-09 01:57:35

End at: 2018-01-09 01:58:05

Below is generated by plot.py at 2018-01-09 05:06:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.56 Mbit/s

95th percentile per-packet one-way delay: 52.777 ms

Loss rate: 0.49%

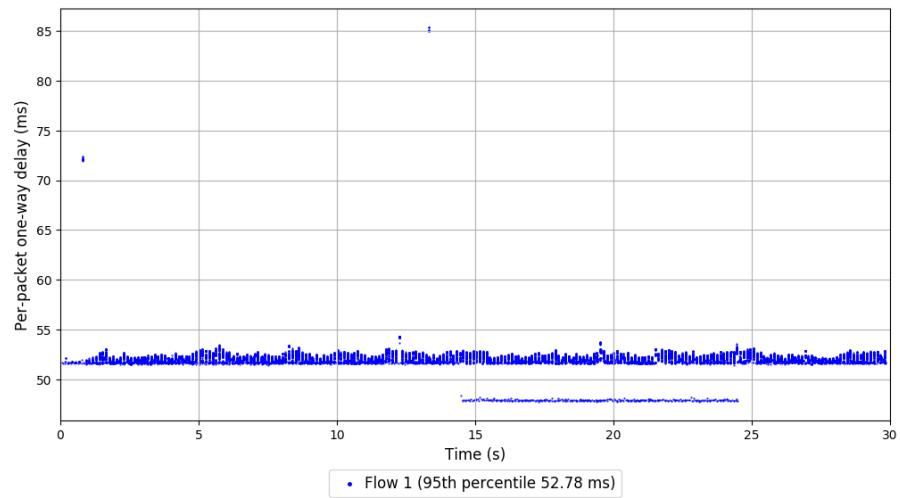
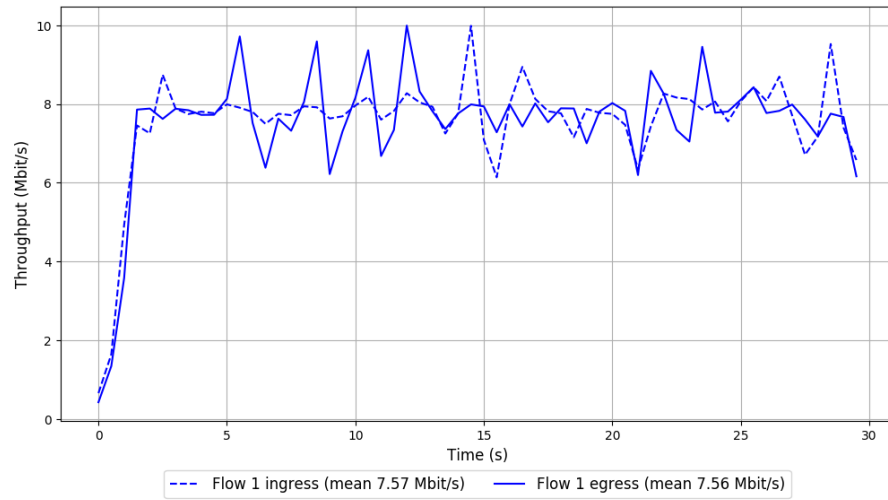
-- Flow 1:

Average throughput: 7.56 Mbit/s

95th percentile per-packet one-way delay: 52.777 ms

Loss rate: 0.49%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-01-09 02:08:56

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

Below is generated by plot.py at 2018-01-09 05:06:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.34 Mbit/s

95th percentile per-packet one-way delay: 53.051 ms

Loss rate: 1.56%

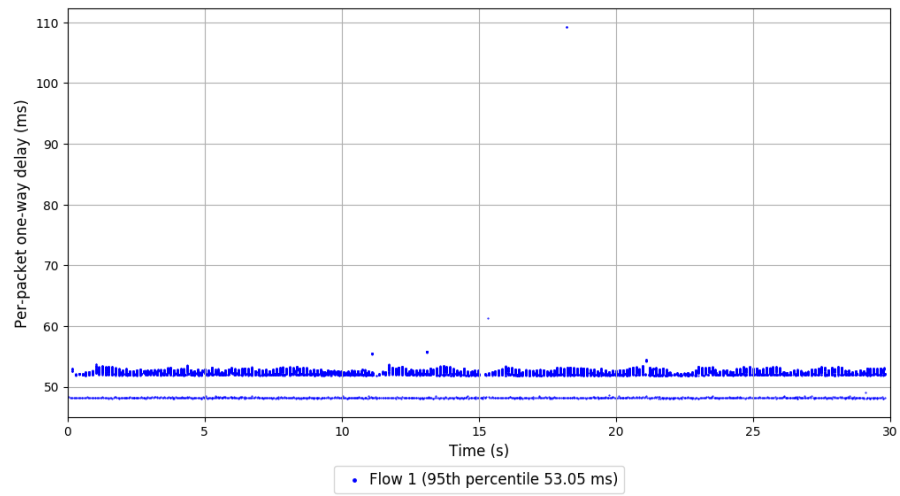
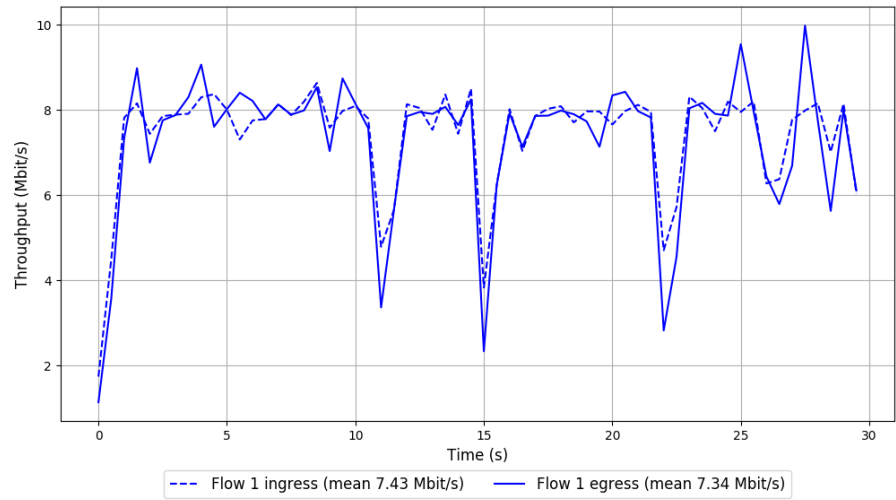
-- Flow 1:

Average throughput: 7.34 Mbit/s

95th percentile per-packet one-way delay: 53.051 ms

Loss rate: 1.56%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-01-09 02:19:51

End at: 2018-01-09 02:20:21

Below is generated by plot.py at 2018-01-09 05:06:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.25 Mbit/s

95th percentile per-packet one-way delay: 53.422 ms

Loss rate: 1.86%

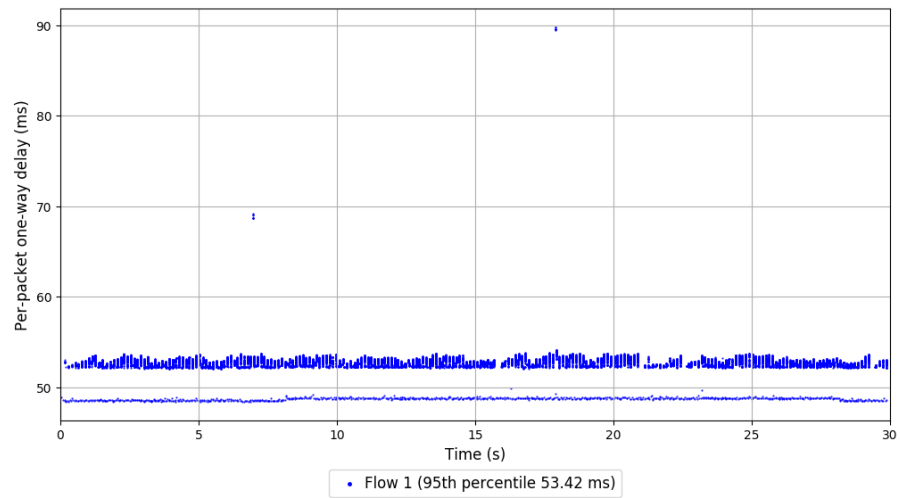
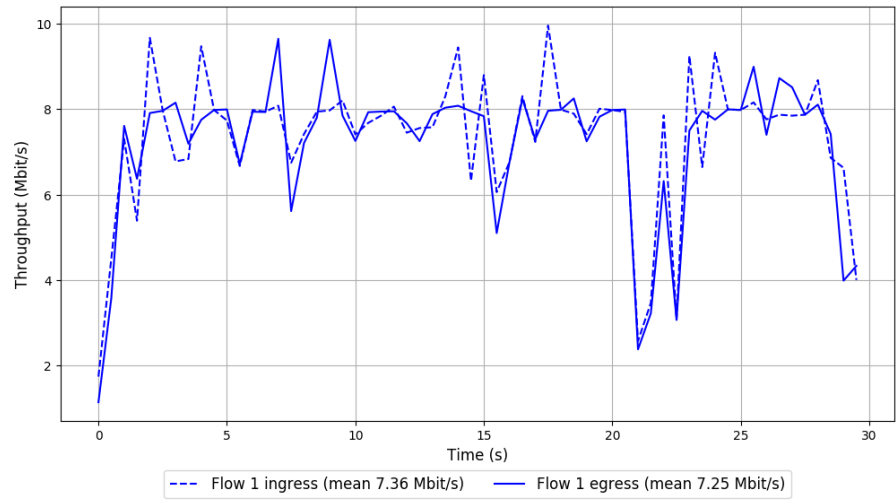
-- Flow 1:

Average throughput: 7.25 Mbit/s

95th percentile per-packet one-way delay: 53.422 ms

Loss rate: 1.86%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-01-09 02:31:00

End at: 2018-01-09 02:31:30

Below is generated by plot.py at 2018-01-09 05:06:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.71 Mbit/s

95th percentile per-packet one-way delay: 53.538 ms

Loss rate: 0.85%

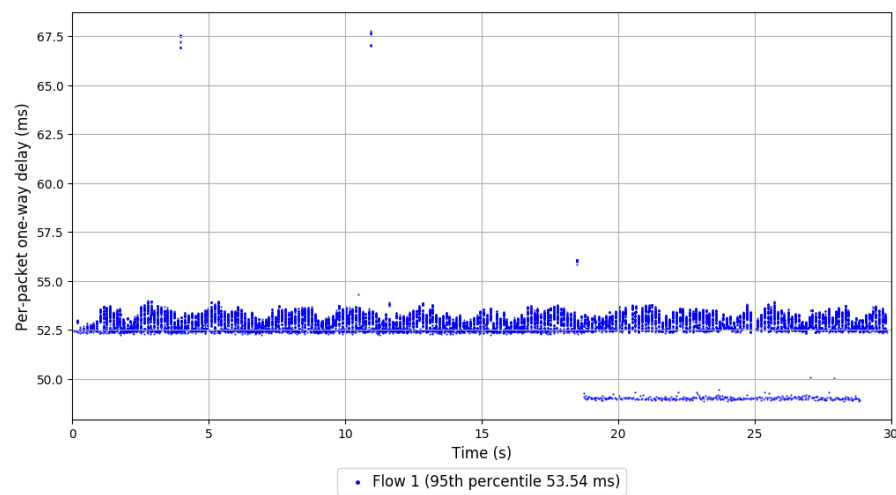
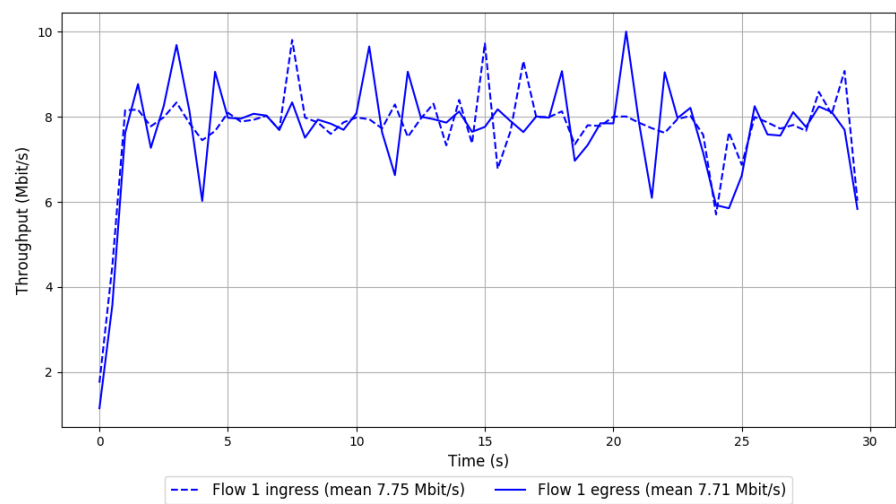
-- Flow 1:

Average throughput: 7.71 Mbit/s

95th percentile per-packet one-way delay: 53.538 ms

Loss rate: 0.85%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-01-09 02:42:33

End at: 2018-01-09 02:43:03

Below is generated by plot.py at 2018-01-09 05:06:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.67 Mbit/s

95th percentile per-packet one-way delay: 53.781 ms

Loss rate: 0.41%

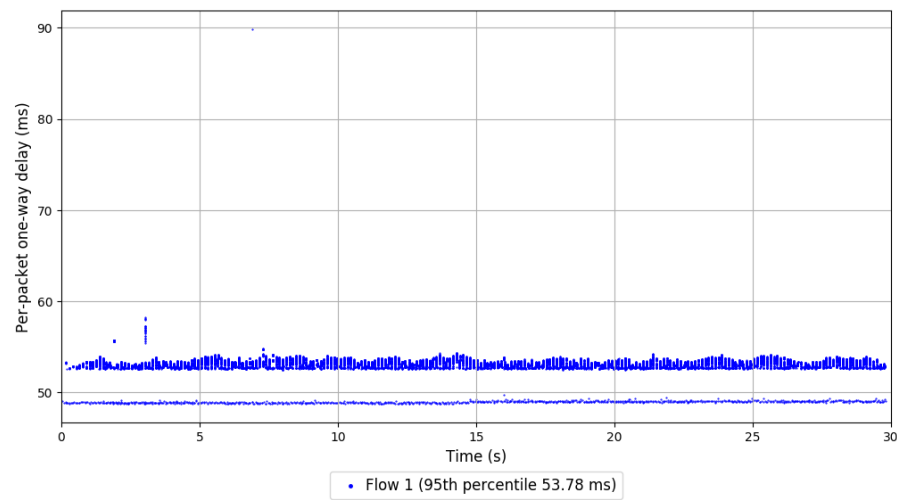
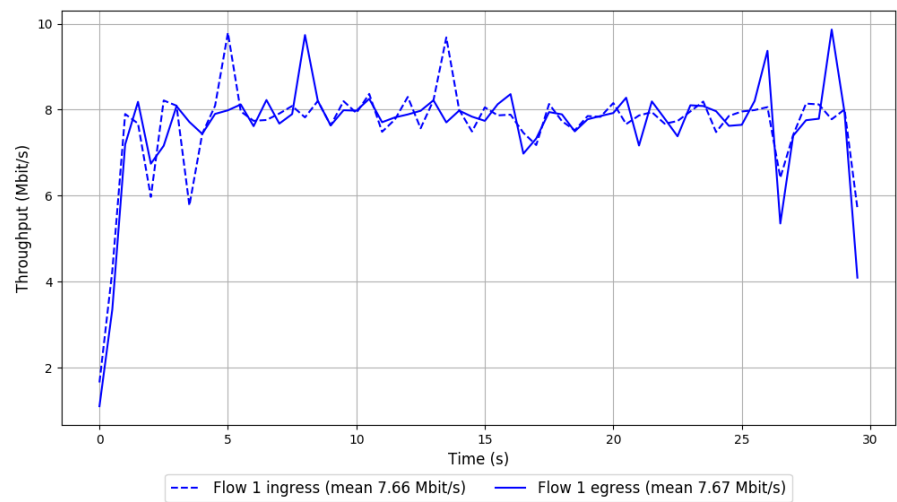
-- Flow 1:

Average throughput: 7.67 Mbit/s

95th percentile per-packet one-way delay: 53.781 ms

Loss rate: 0.41%

Run 10: Report of Sprout — Data Link

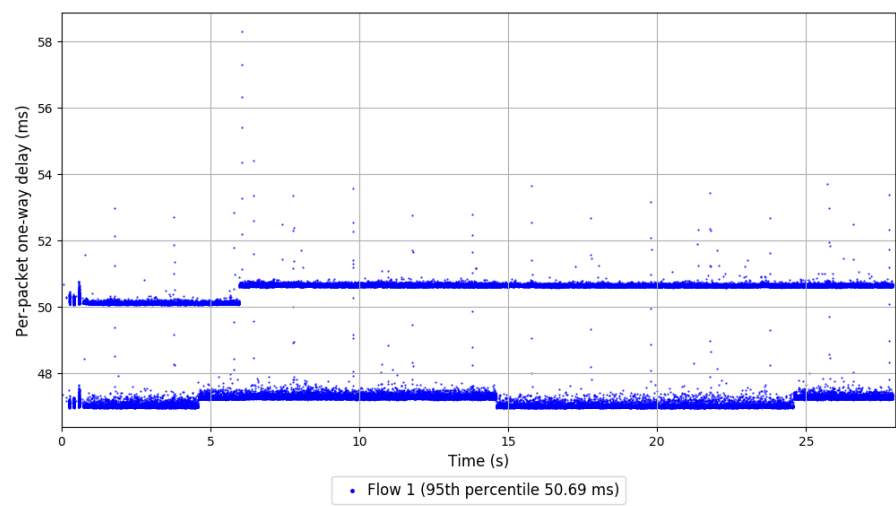
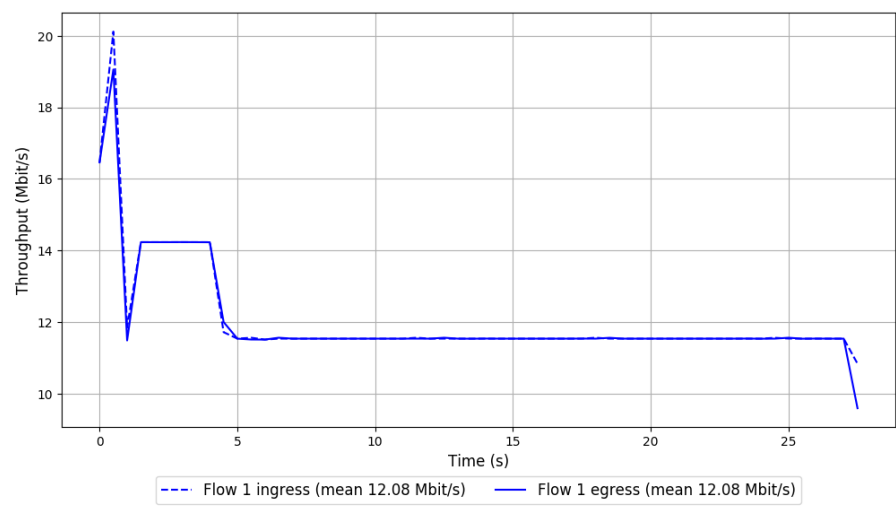


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-01-09 00:54:51
End at: 2018-01-09 00:55:21

# Below is generated by plot.py at 2018-01-09 05:06:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.08 Mbit/s
95th percentile per-packet one-way delay: 50.693 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 12.08 Mbit/s
95th percentile per-packet one-way delay: 50.693 ms
Loss rate: 0.36%
```

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

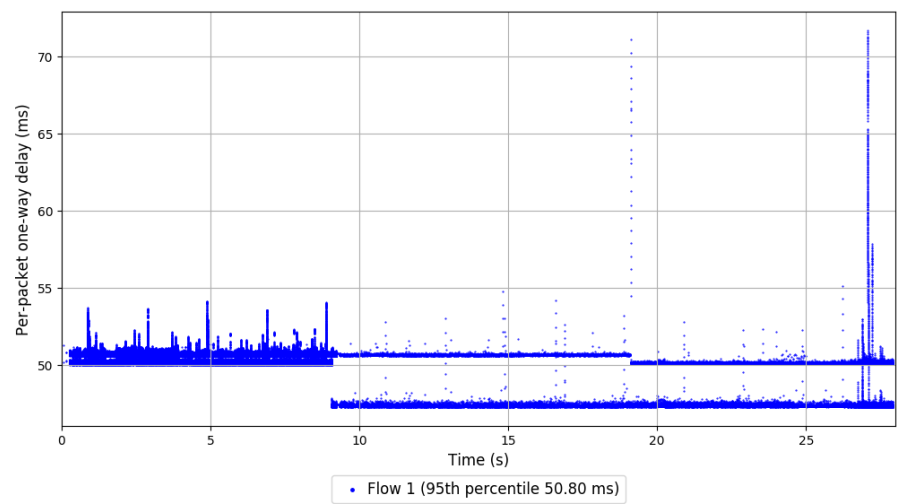
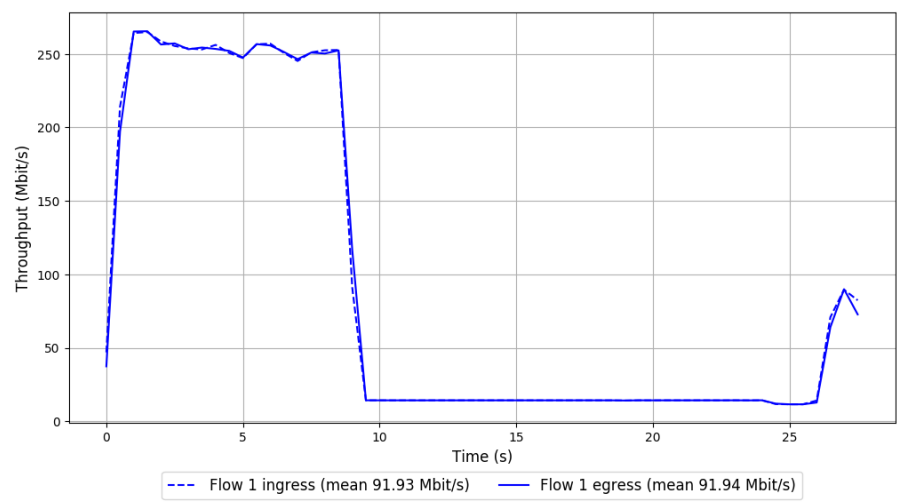


```
Run 2: Statistics of TaoVA-100x

Start at: 2018-01-09 01:06:28
End at: 2018-01-09 01:06:58

# Below is generated by plot.py at 2018-01-09 05:06:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.94 Mbit/s
95th percentile per-packet one-way delay: 50.801 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 91.94 Mbit/s
95th percentile per-packet one-way delay: 50.801 ms
Loss rate: 0.36%
```

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

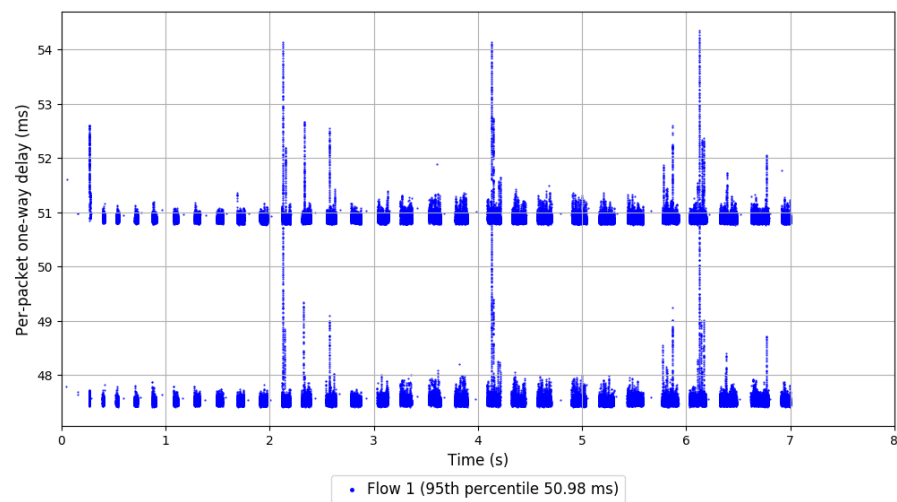
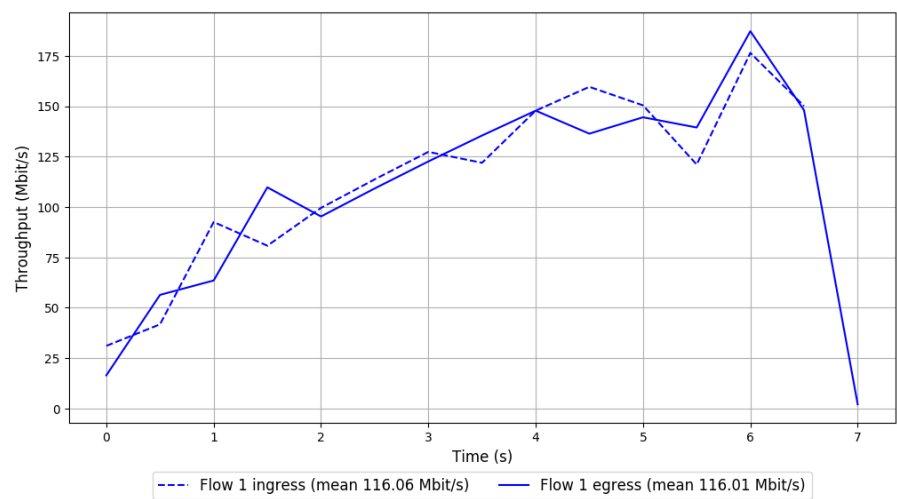


Run 3: Statistics of TaoVA-100x

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

End at: 2018-01-09 01:18:31

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

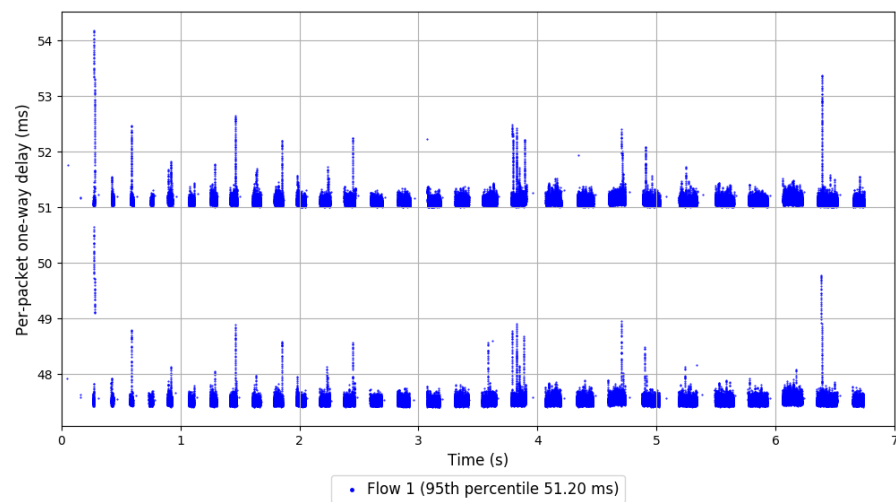
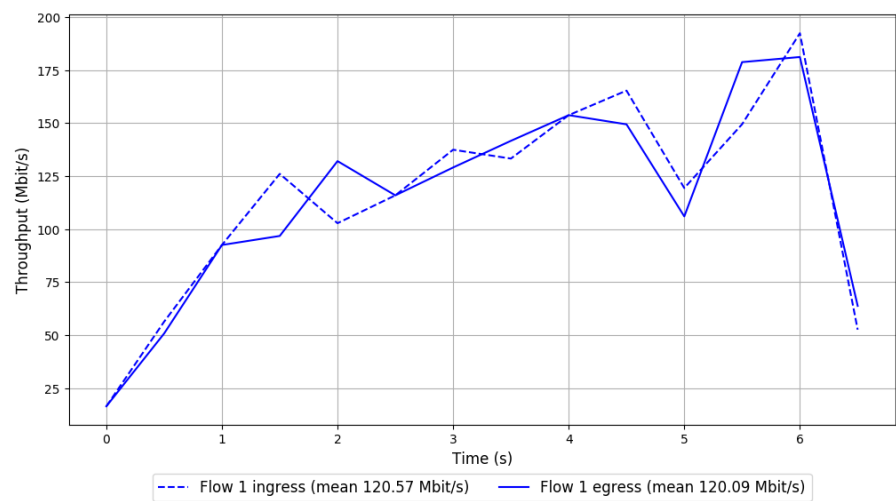


Run 4: Statistics of TaoVA-100x

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

End at: 2018-01-09 01:29:49

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

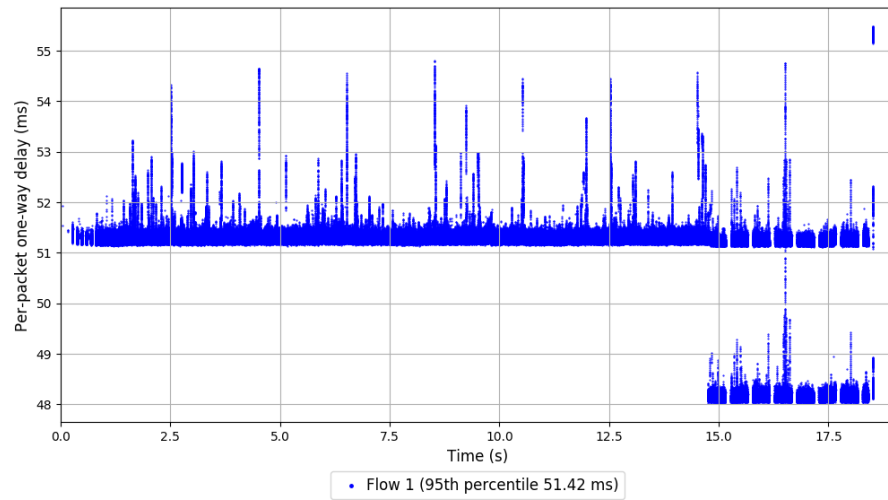
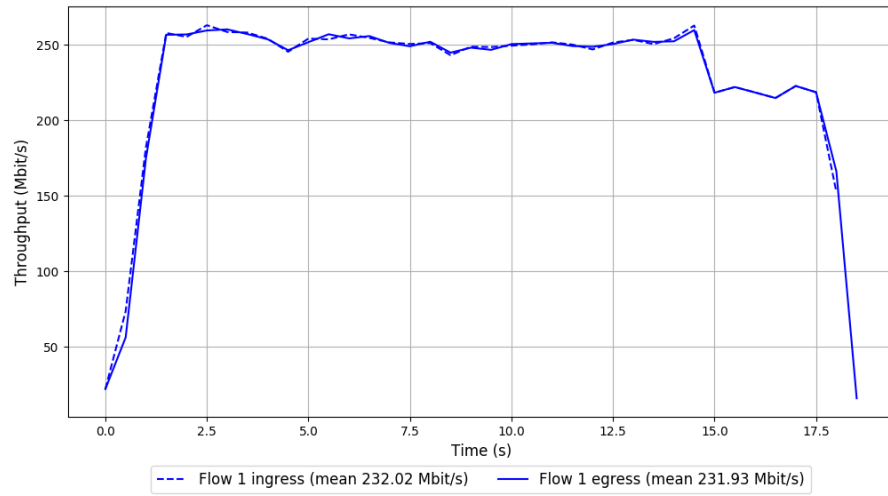


Run 5: Statistics of TaoVA-100x

Start at: 2018-01-09 01:40:32

End at: 2018-01-09 01:41:02

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



Run 6: Statistics of TaoVA-100x

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

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

Below is generated by plot.py at 2018-01-09 05:07:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 241.13 Mbit/s

95th percentile per-packet one-way delay: 51.522 ms

Loss rate: 0.34%

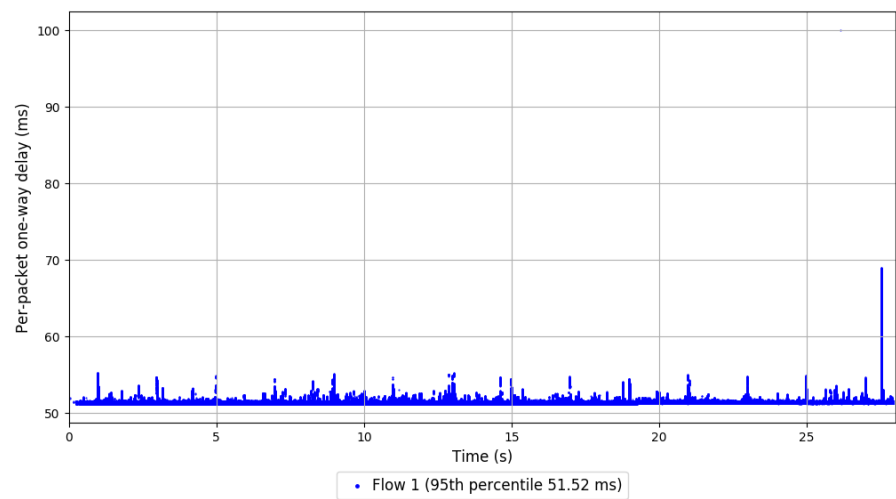
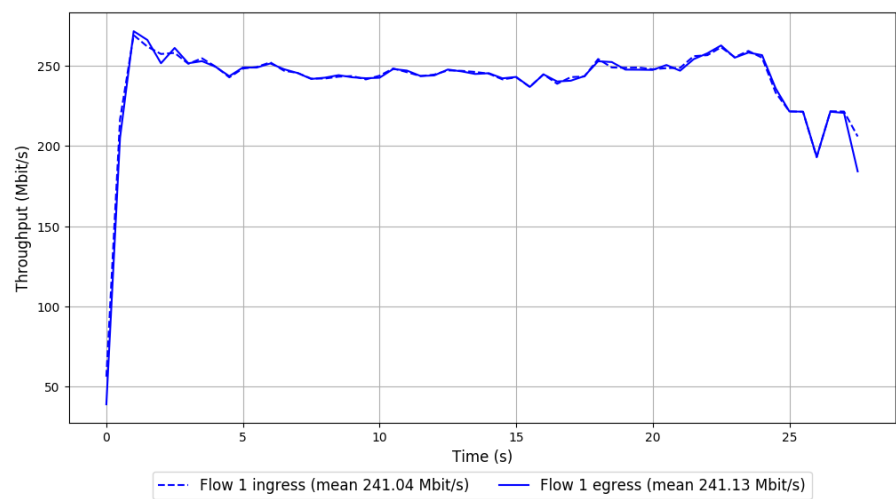
-- Flow 1:

Average throughput: 241.13 Mbit/s

95th percentile per-packet one-way delay: 51.522 ms

Loss rate: 0.34%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-01-09 02:03:50

End at: 2018-01-09 02:04:20

Below is generated by plot.py at 2018-01-09 05:07:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.59 Mbit/s

95th percentile per-packet one-way delay: 51.766 ms

Loss rate: 0.39%

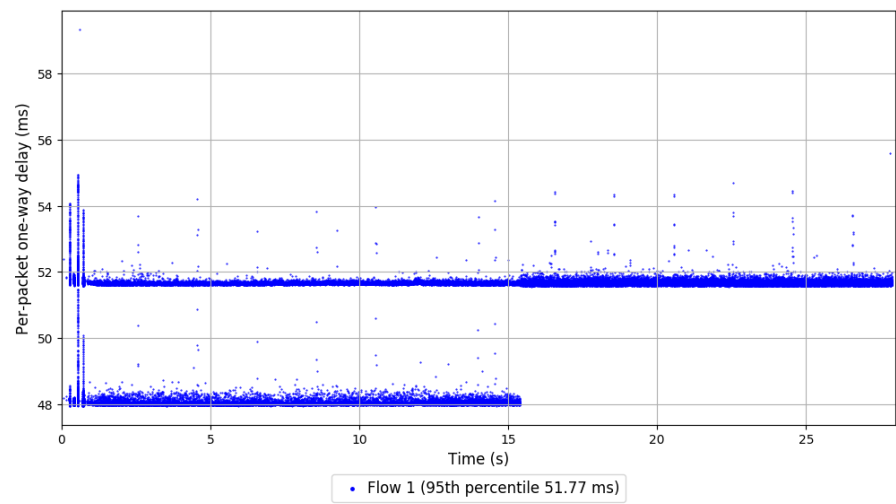
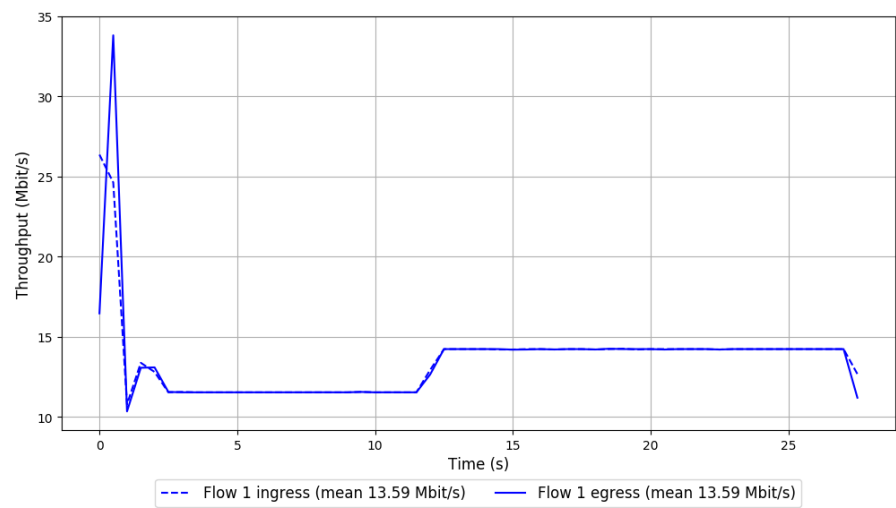
-- Flow 1:

Average throughput: 13.59 Mbit/s

95th percentile per-packet one-way delay: 51.766 ms

Loss rate: 0.39%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-01-09 02:14:35

End at: 2018-01-09 02:15:05

Below is generated by plot.py at 2018-01-09 05:07:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 138.28 Mbit/s

95th percentile per-packet one-way delay: 52.154 ms

Loss rate: 0.28%

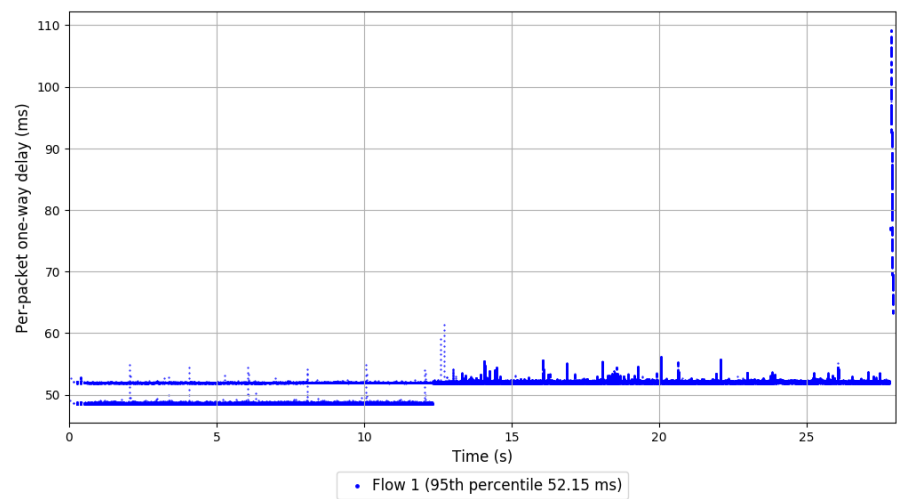
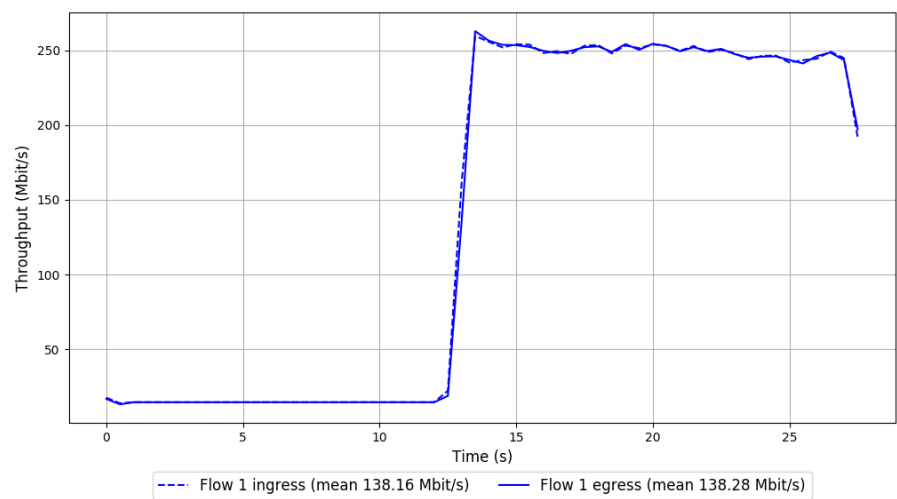
-- Flow 1:

Average throughput: 138.28 Mbit/s

95th percentile per-packet one-way delay: 52.154 ms

Loss rate: 0.28%

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



Run 9: Statistics of TaoVA-100x

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

End at: 2018-01-09 02:26:25

Below is generated by plot.py at 2018-01-09 05:07:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 14.71 Mbit/s

95th percentile per-packet one-way delay: 52.288 ms

Loss rate: 0.36%

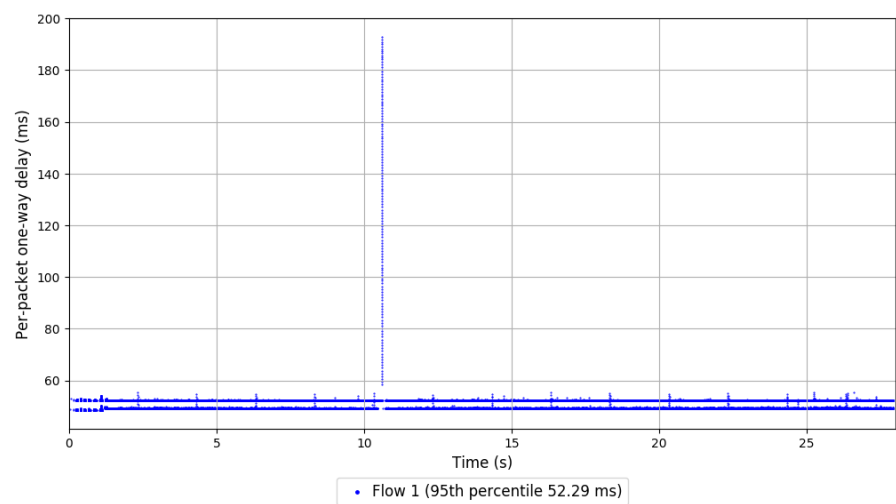
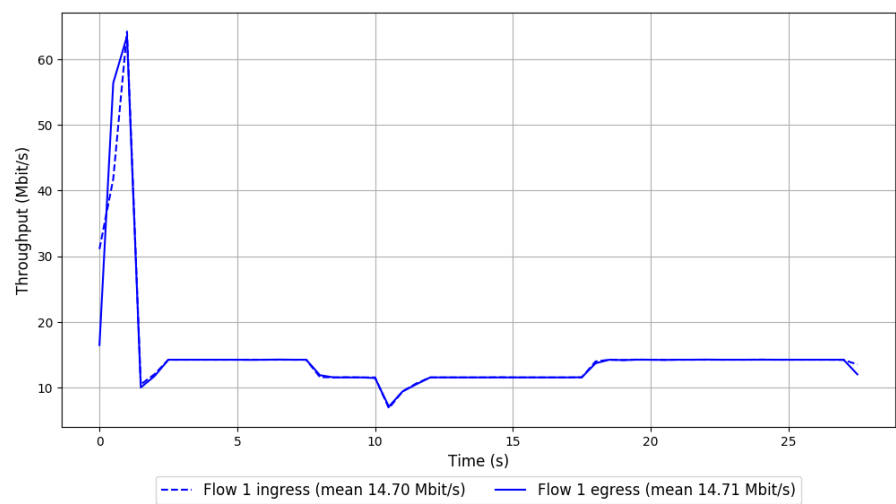
-- Flow 1:

Average throughput: 14.71 Mbit/s

95th percentile per-packet one-way delay: 52.288 ms

Loss rate: 0.36%

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

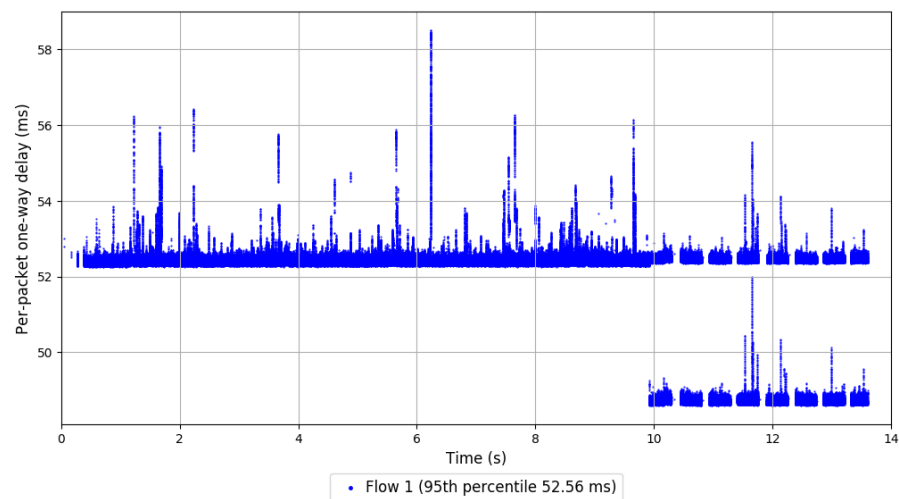
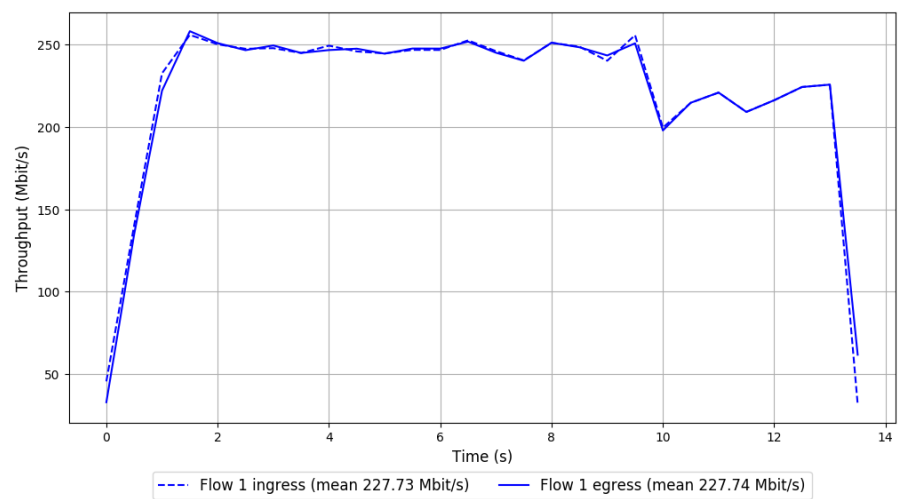


Run 10: Statistics of TaoVA-100x

Start at: 2018-01-09 02:37:17

End at: 2018-01-09 02:37:47

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



Run 1: Statistics of TCP Vegas

Start at: 2018-01-09 00:58:34

End at: 2018-01-09 00:59:04

Below is generated by plot.py at 2018-01-09 05:07:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.10 Mbit/s

95th percentile per-packet one-way delay: 50.843 ms

Loss rate: 0.74%

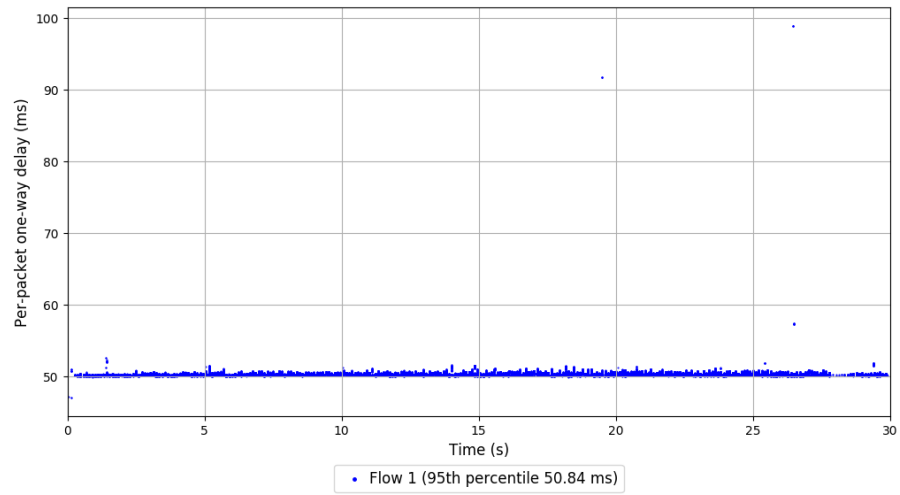
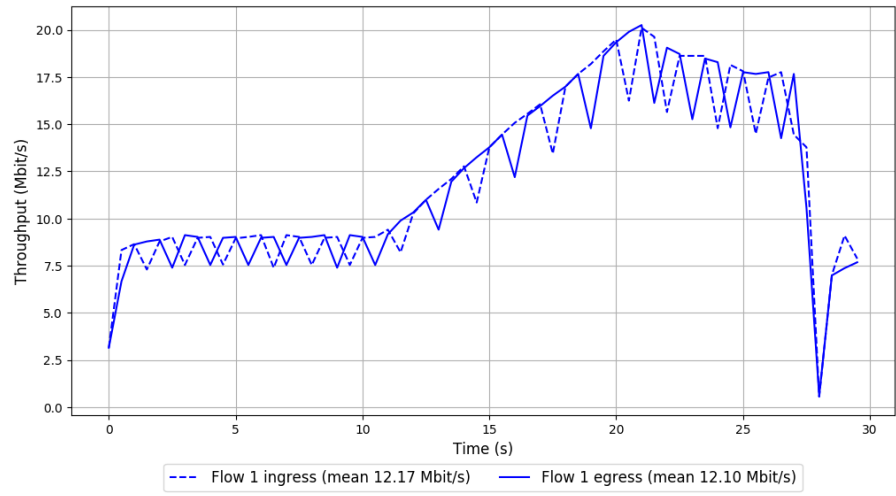
-- Flow 1:

Average throughput: 12.10 Mbit/s

95th percentile per-packet one-way delay: 50.843 ms

Loss rate: 0.74%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

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

End at: 2018-01-09 01:10:46

Below is generated by plot.py at 2018-01-09 05:07:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 24.87 Mbit/s

95th percentile per-packet one-way delay: 51.829 ms

Loss rate: 2.33%

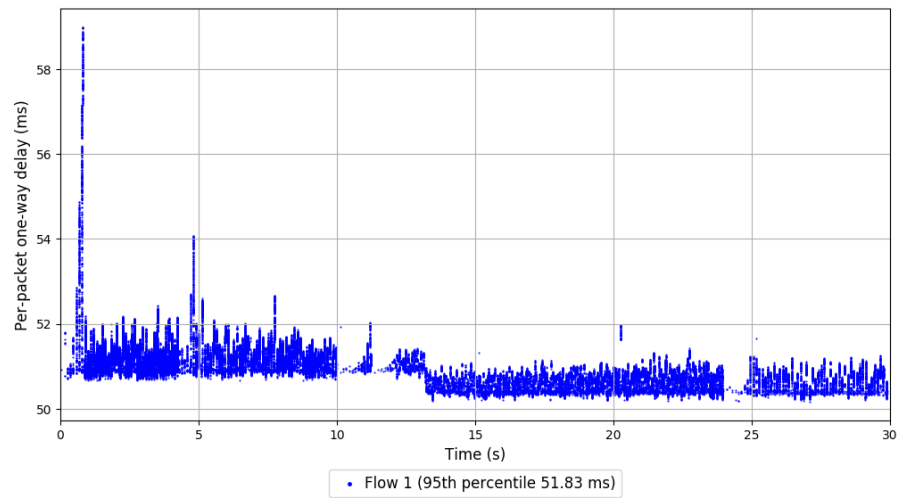
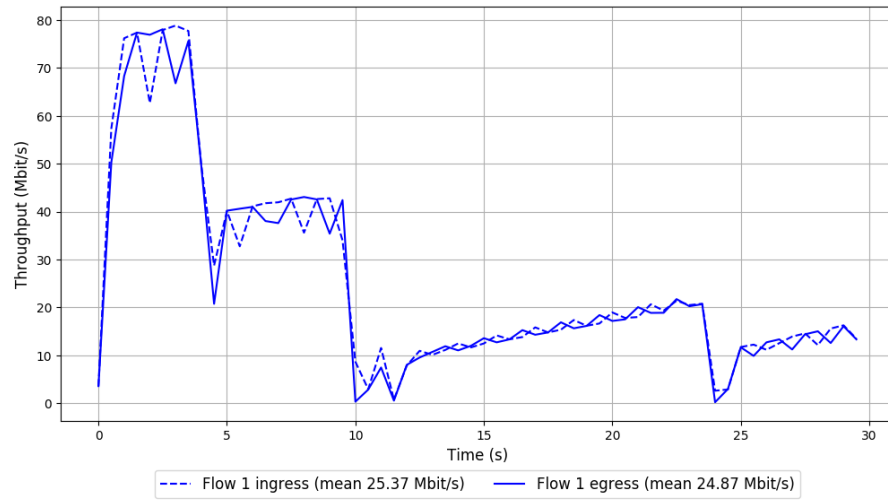
-- Flow 1:

Average throughput: 24.87 Mbit/s

95th percentile per-packet one-way delay: 51.829 ms

Loss rate: 2.33%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-01-09 01:21:40

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

Below is generated by plot.py at 2018-01-09 05:07:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.38 Mbit/s

95th percentile per-packet one-way delay: 51.678 ms

Loss rate: 0.53%

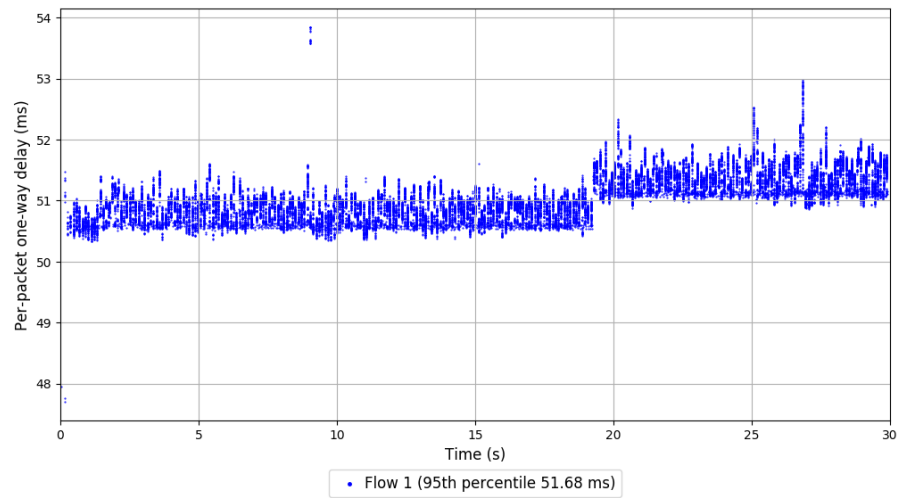
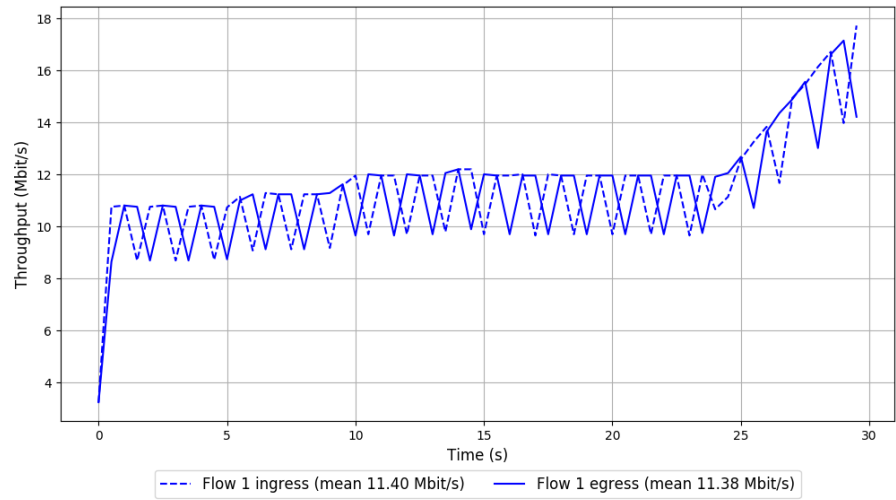
-- Flow 1:

Average throughput: 11.38 Mbit/s

95th percentile per-packet one-way delay: 51.678 ms

Loss rate: 0.53%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-01-09 01:33:00

End at: 2018-01-09 01:33:30

Below is generated by plot.py at 2018-01-09 05:07:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 40.86 Mbit/s

95th percentile per-packet one-way delay: 52.382 ms

Loss rate: 1.00%

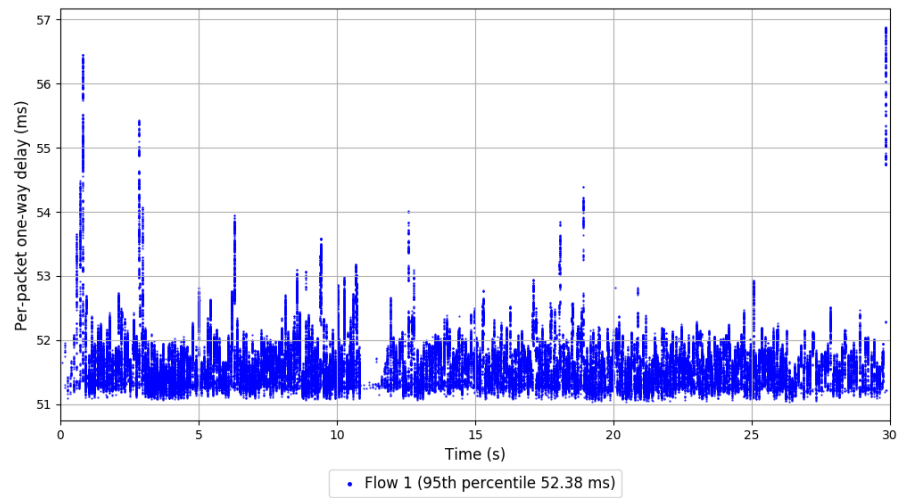
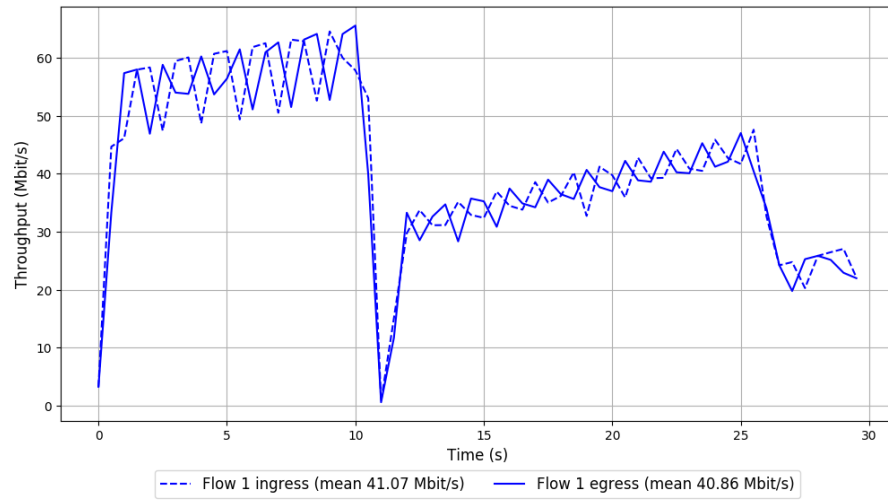
-- Flow 1:

Average throughput: 40.86 Mbit/s

95th percentile per-packet one-way delay: 52.382 ms

Loss rate: 1.00%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-01-09 01:44:21

End at: 2018-01-09 01:44:51

Below is generated by plot.py at 2018-01-09 05:07:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.42 Mbit/s

95th percentile per-packet one-way delay: 52.528 ms

Loss rate: 0.30%

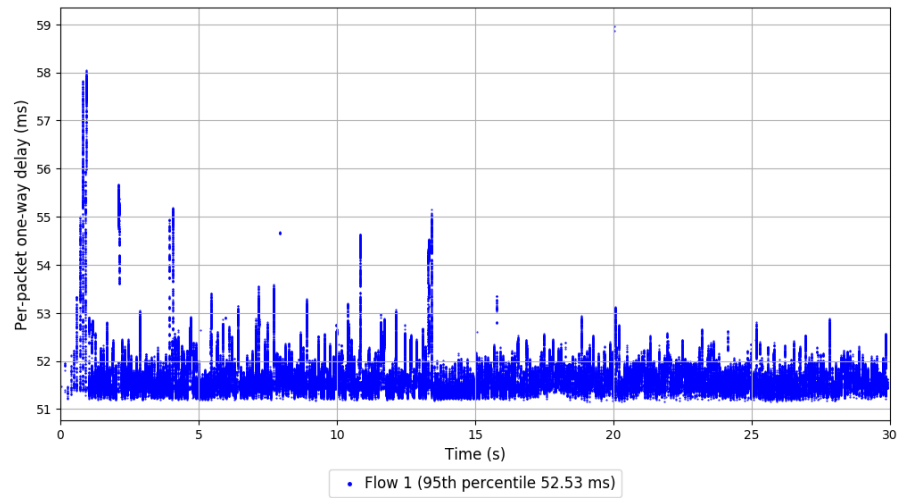
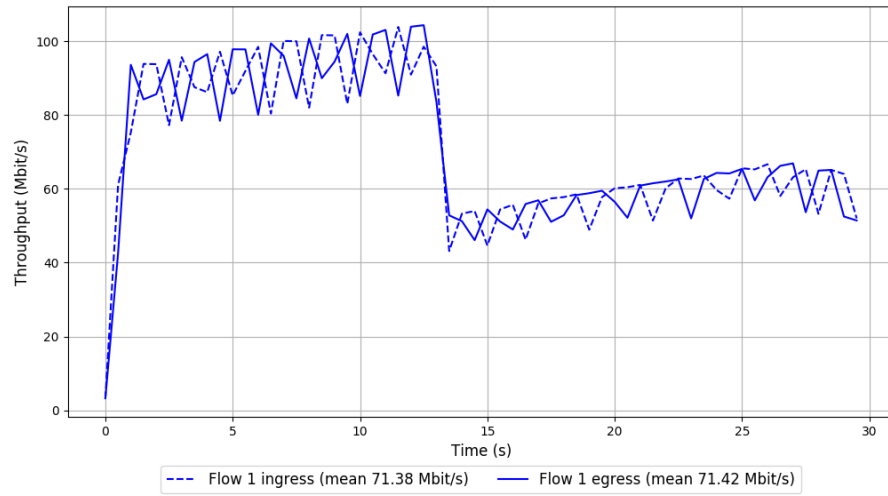
-- Flow 1:

Average throughput: 71.42 Mbit/s

95th percentile per-packet one-way delay: 52.528 ms

Loss rate: 0.30%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-01-09 01:56:07

End at: 2018-01-09 01:56:37

Below is generated by plot.py at 2018-01-09 05:07:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 42.81 Mbit/s

95th percentile per-packet one-way delay: 52.480 ms

Loss rate: 1.04%

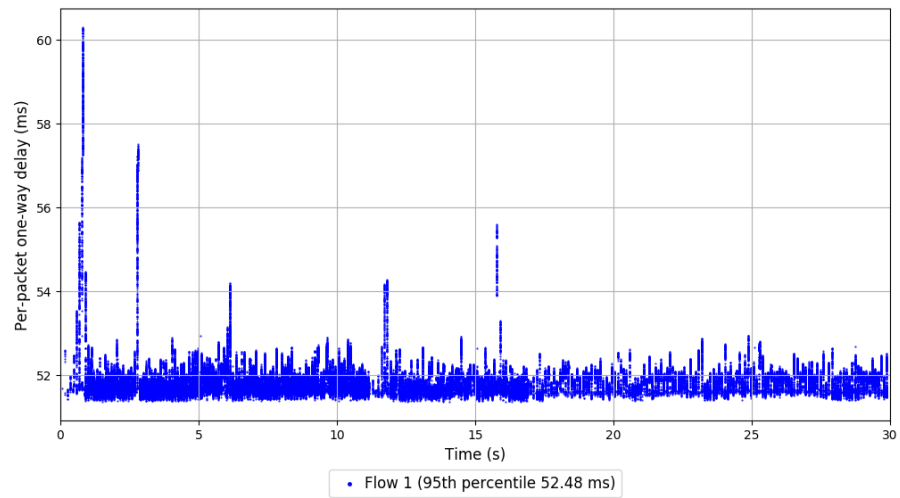
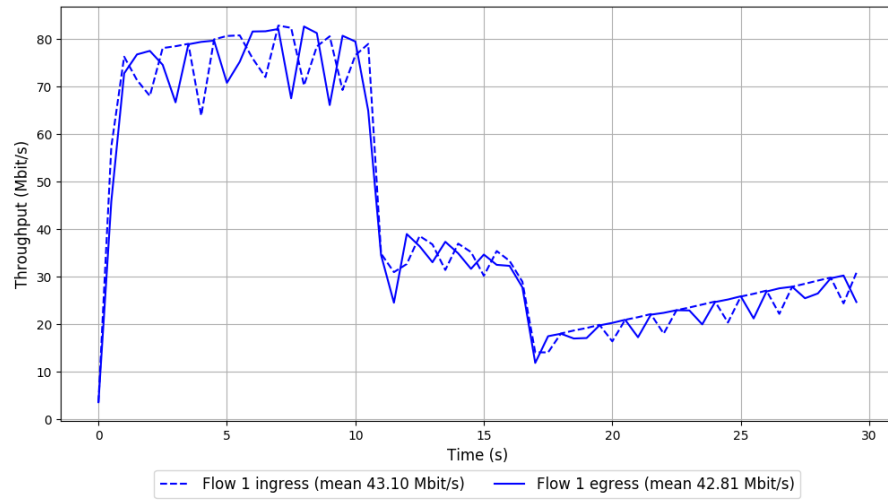
-- Flow 1:

Average throughput: 42.81 Mbit/s

95th percentile per-packet one-way delay: 52.480 ms

Loss rate: 1.04%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-01-09 02:07:28

End at: 2018-01-09 02:07:58

Below is generated by plot.py at 2018-01-09 05:07:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 18.46 Mbit/s

95th percentile per-packet one-way delay: 52.746 ms

Loss rate: 0.82%

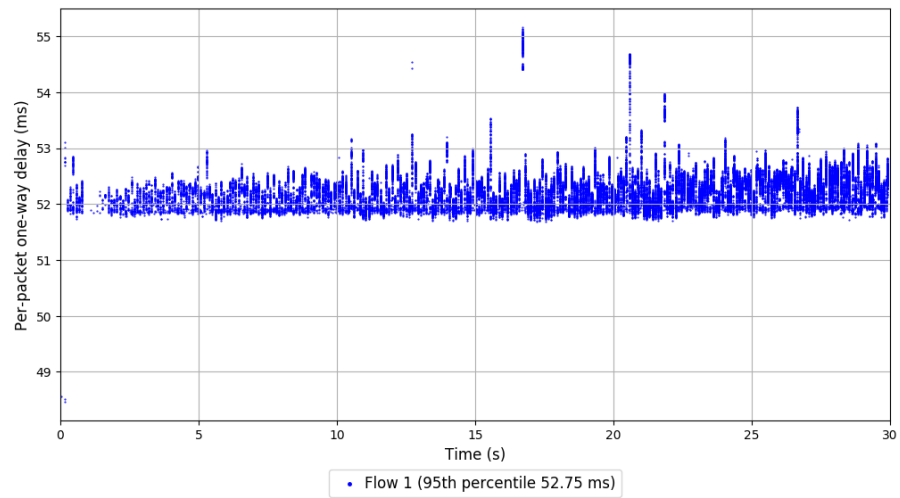
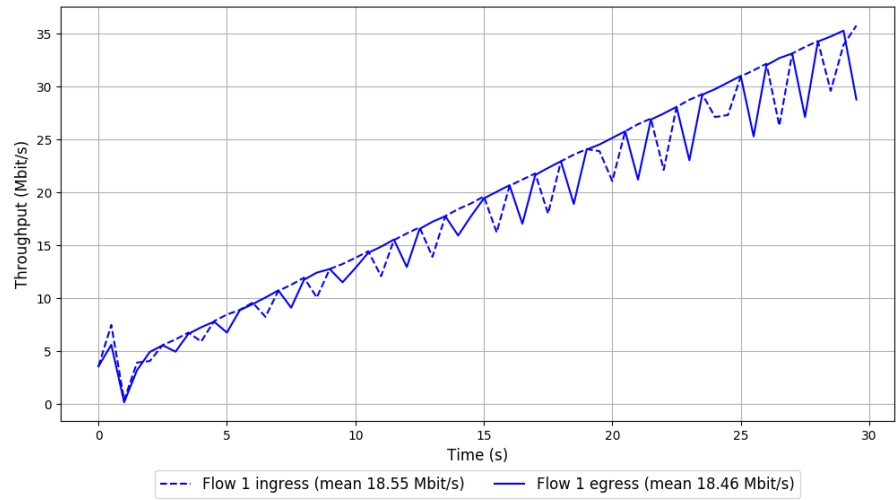
-- Flow 1:

Average throughput: 18.46 Mbit/s

95th percentile per-packet one-way delay: 52.746 ms

Loss rate: 0.82%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-01-09 02:18:22

End at: 2018-01-09 02:18:52

Below is generated by plot.py at 2018-01-09 05:07:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 65.19 Mbit/s

95th percentile per-packet one-way delay: 53.078 ms

Loss rate: 0.33%

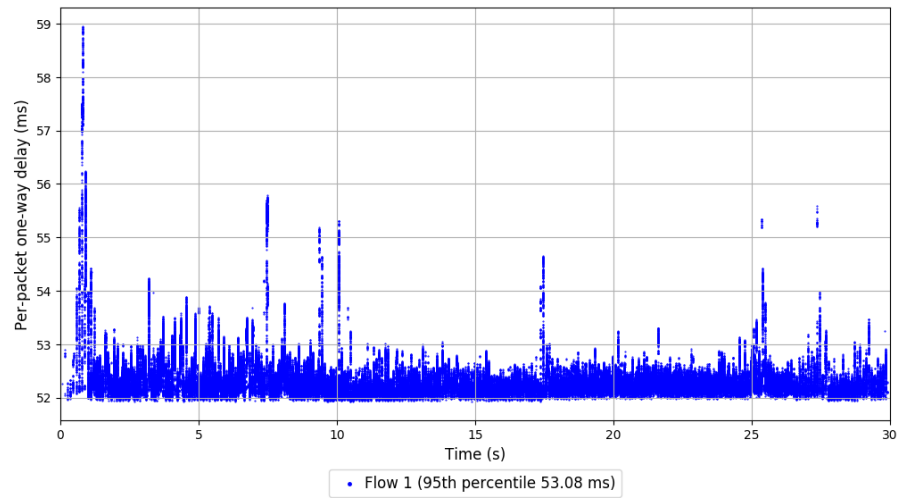
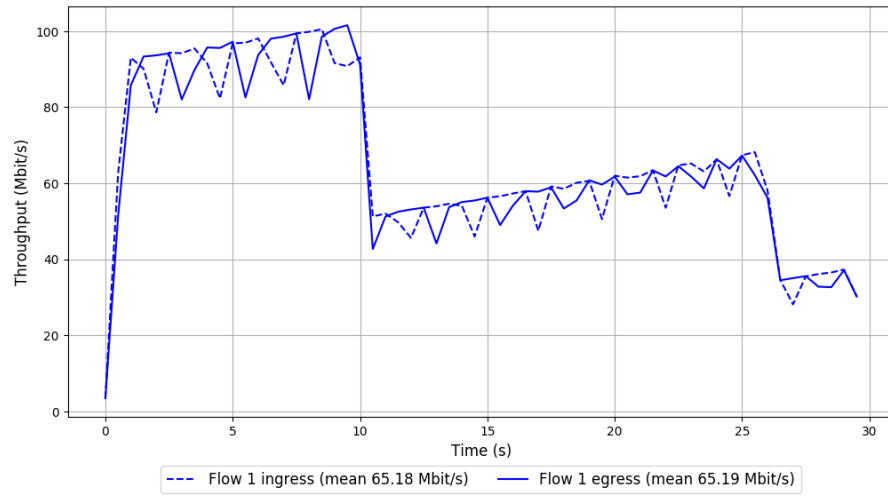
-- Flow 1:

Average throughput: 65.19 Mbit/s

95th percentile per-packet one-way delay: 53.078 ms

Loss rate: 0.33%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-01-09 02:29:31

End at: 2018-01-09 02:30:01

Below is generated by plot.py at 2018-01-09 05:07:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.86 Mbit/s

95th percentile per-packet one-way delay: 53.916 ms

Loss rate: 0.38%

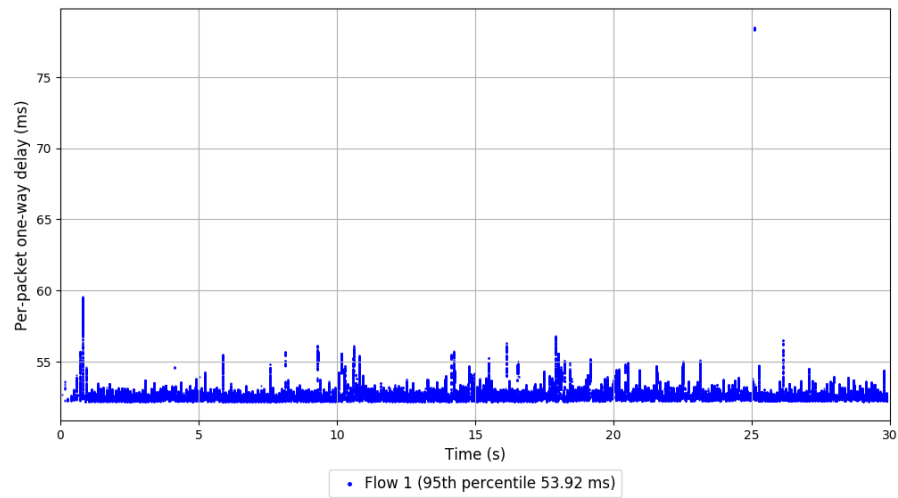
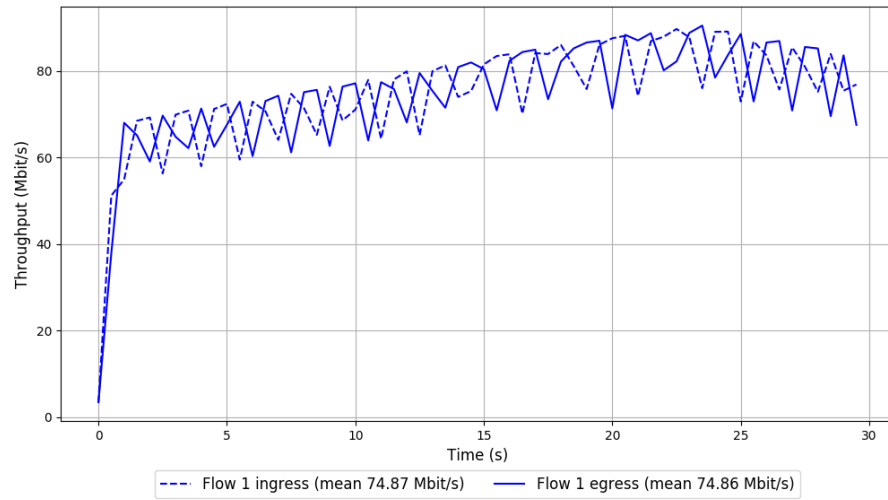
-- Flow 1:

Average throughput: 74.86 Mbit/s

95th percentile per-packet one-way delay: 53.916 ms

Loss rate: 0.38%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

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

End at: 2018-01-09 02:41:32

Below is generated by plot.py at 2018-01-09 05:07:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 81.31 Mbit/s

95th percentile per-packet one-way delay: 53.894 ms

Loss rate: 0.44%

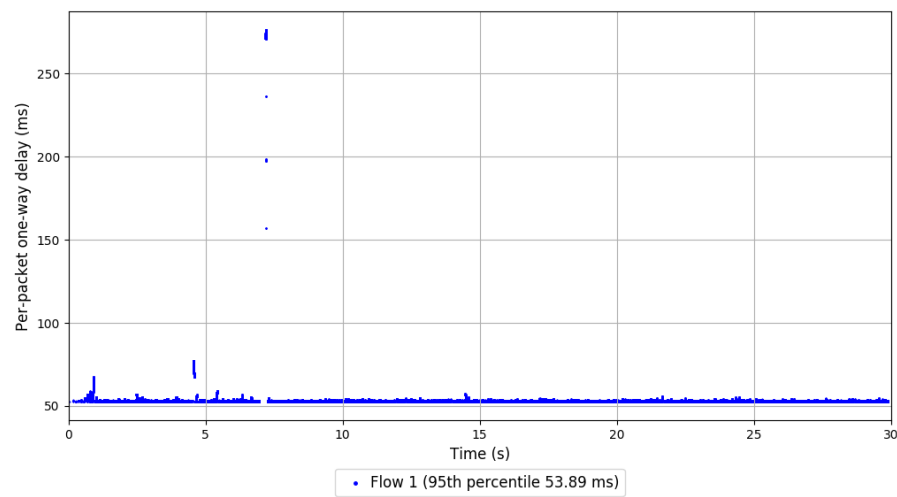
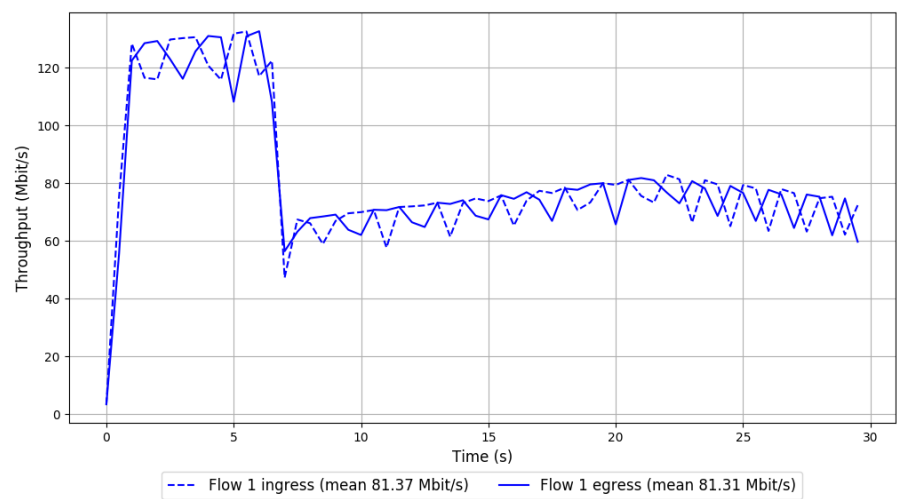
-- Flow 1:

Average throughput: 81.31 Mbit/s

95th percentile per-packet one-way delay: 53.894 ms

Loss rate: 0.44%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-01-09 00:56:49

End at: 2018-01-09 00:57:19

Below is generated by plot.py at 2018-01-09 05:08:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 294.77 Mbit/s

95th percentile per-packet one-way delay: 75.382 ms

Loss rate: 1.99%

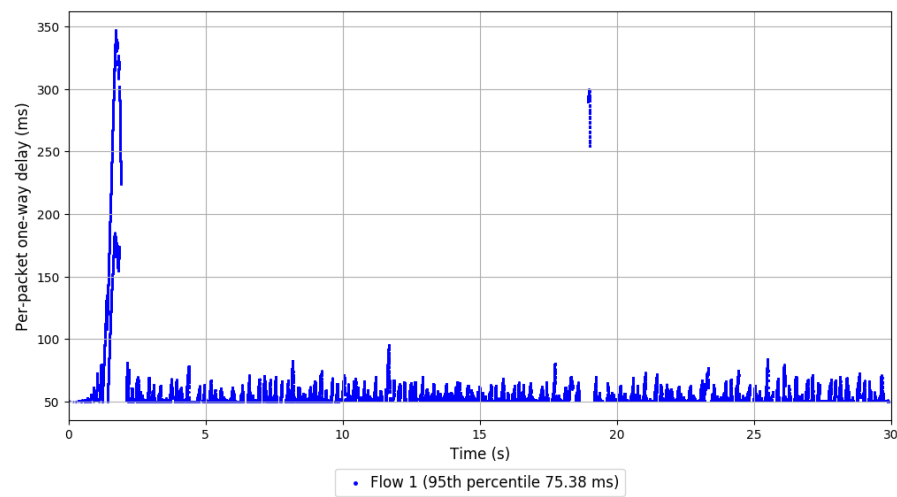
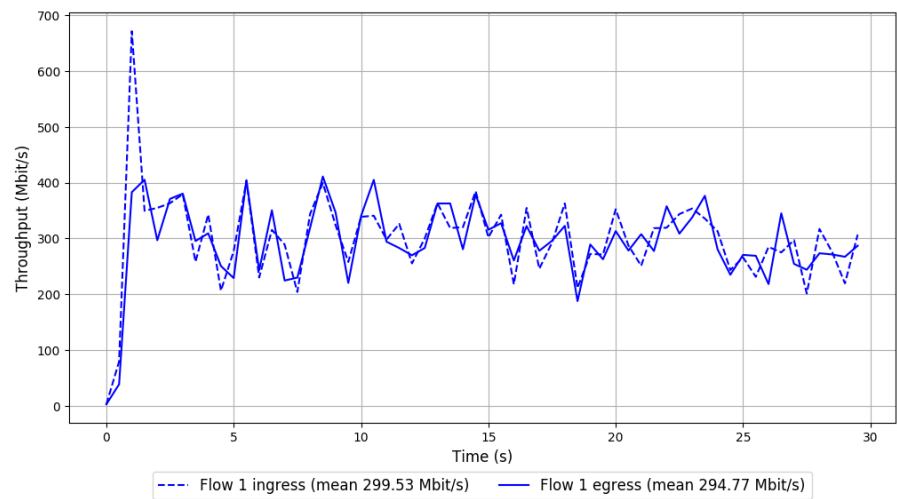
-- Flow 1:

Average throughput: 294.77 Mbit/s

95th percentile per-packet one-way delay: 75.382 ms

Loss rate: 1.99%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

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

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

Below is generated by plot.py at 2018-01-09 05:08:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 244.31 Mbit/s

95th percentile per-packet one-way delay: 91.405 ms

Loss rate: 1.18%

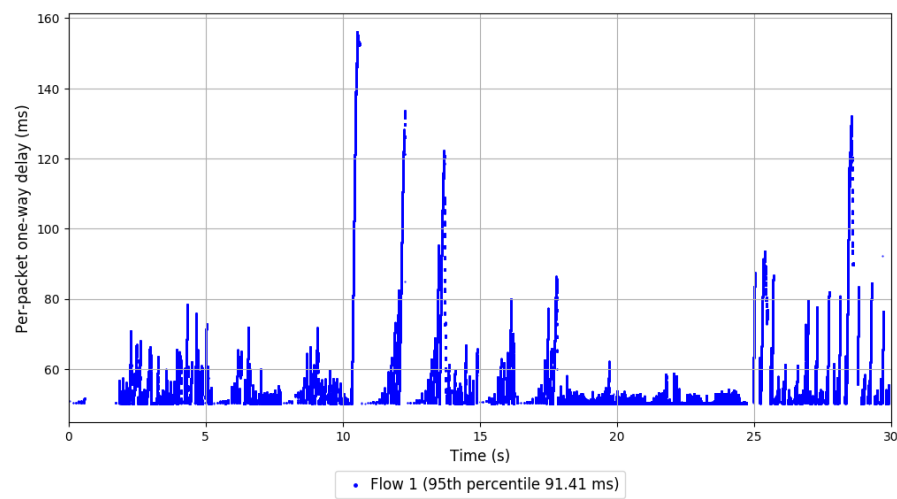
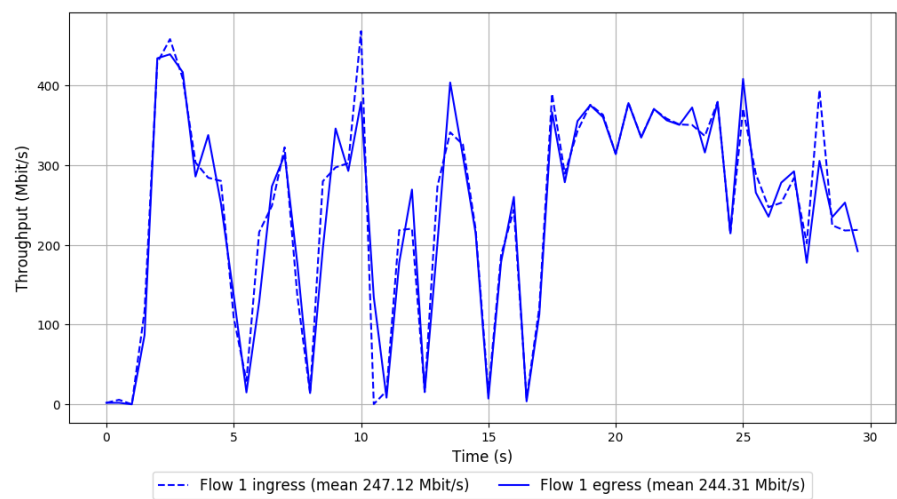
-- Flow 1:

Average throughput: 244.31 Mbit/s

95th percentile per-packet one-way delay: 91.405 ms

Loss rate: 1.18%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

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

End at: 2018-01-09 01:20:30

Below is generated by plot.py at 2018-01-09 05:08:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 230.68 Mbit/s

95th percentile per-packet one-way delay: 75.399 ms

Loss rate: 0.26%

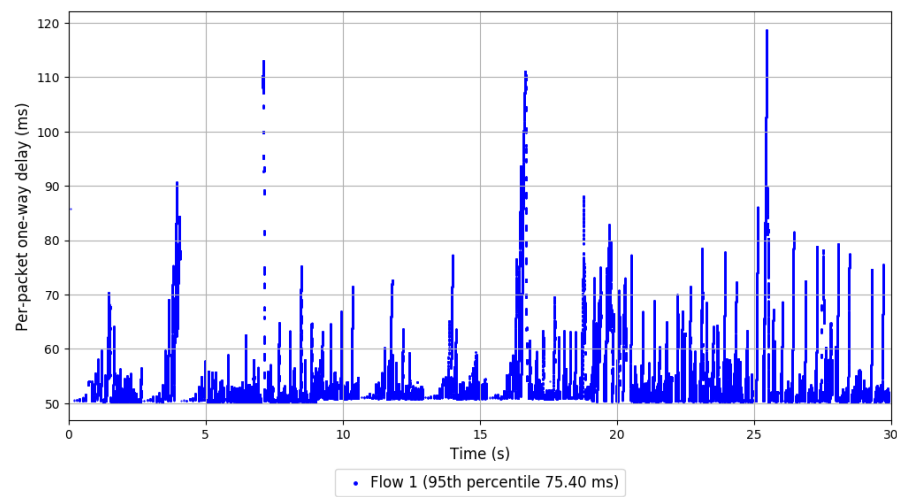
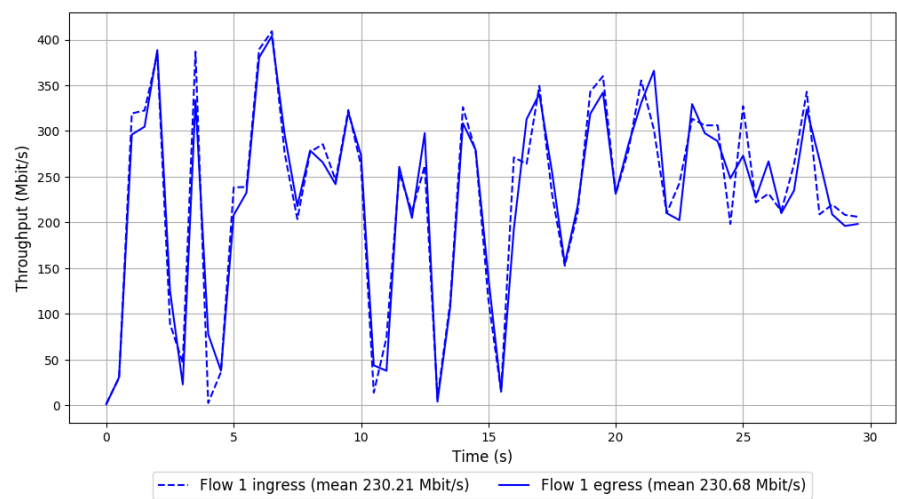
-- Flow 1:

Average throughput: 230.68 Mbit/s

95th percentile per-packet one-way delay: 75.399 ms

Loss rate: 0.26%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-01-09 01:31:17

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

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 266.80 Mbit/s

95th percentile per-packet one-way delay: 100.980 ms

Loss rate: 0.56%

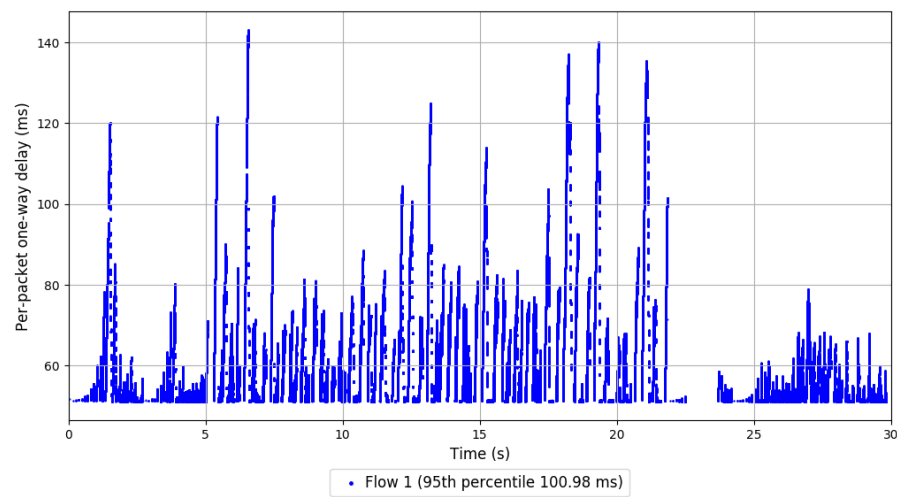
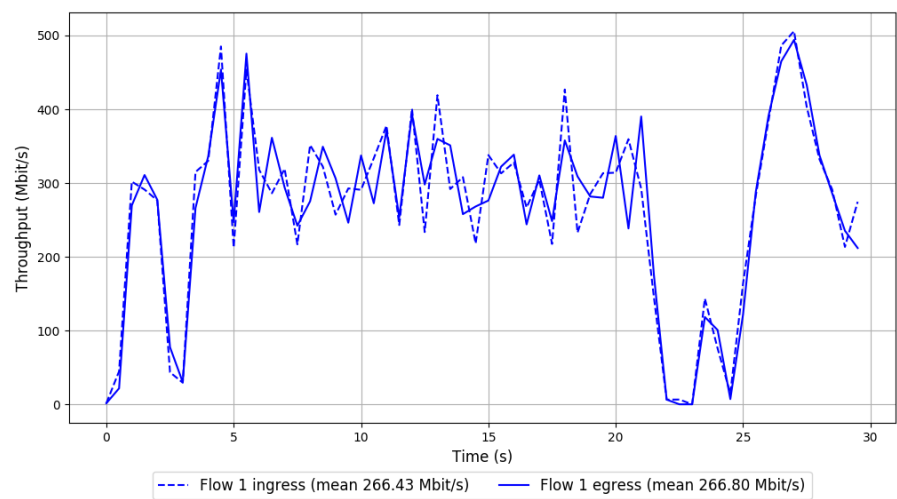
-- Flow 1:

Average throughput: 266.80 Mbit/s

95th percentile per-packet one-way delay: 100.980 ms

Loss rate: 0.56%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-01-09 01:42:40

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

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 245.37 Mbit/s

95th percentile per-packet one-way delay: 96.260 ms

Loss rate: 1.23%

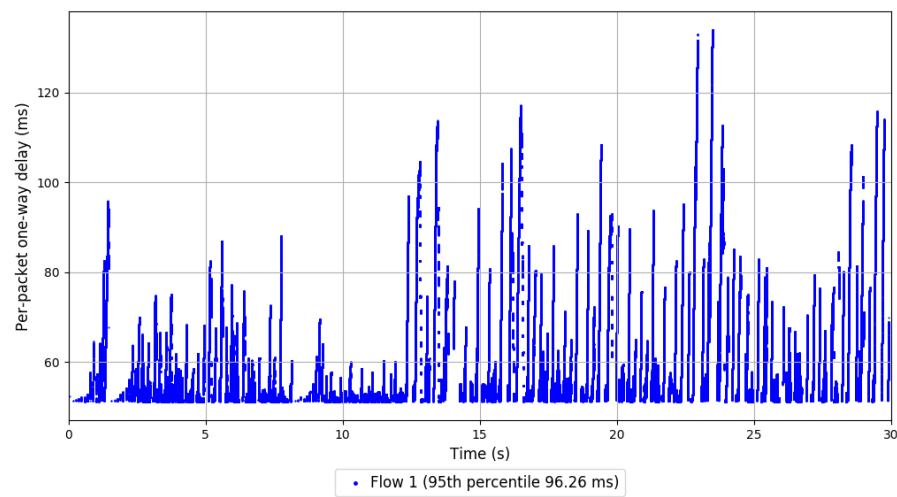
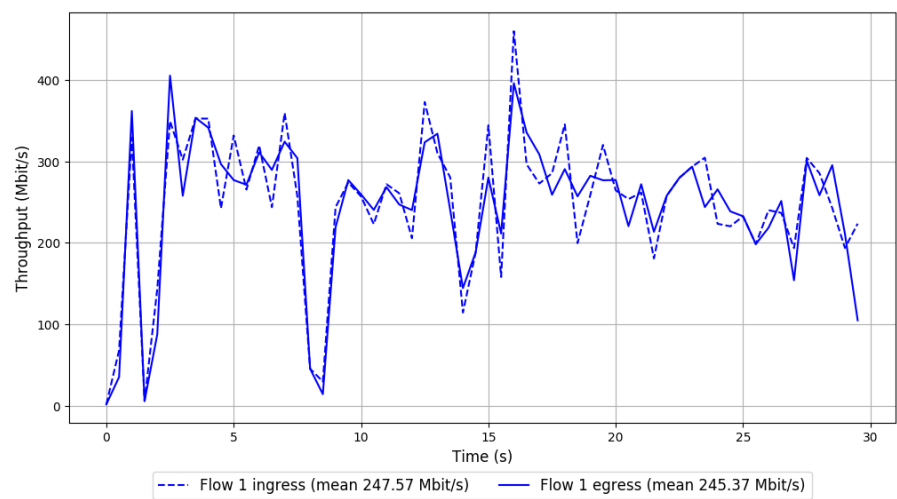
-- Flow 1:

Average throughput: 245.37 Mbit/s

95th percentile per-packet one-way delay: 96.260 ms

Loss rate: 1.23%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-01-09 01:54:25

End at: 2018-01-09 01:54:55

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 261.66 Mbit/s

95th percentile per-packet one-way delay: 120.291 ms

Loss rate: 0.10%

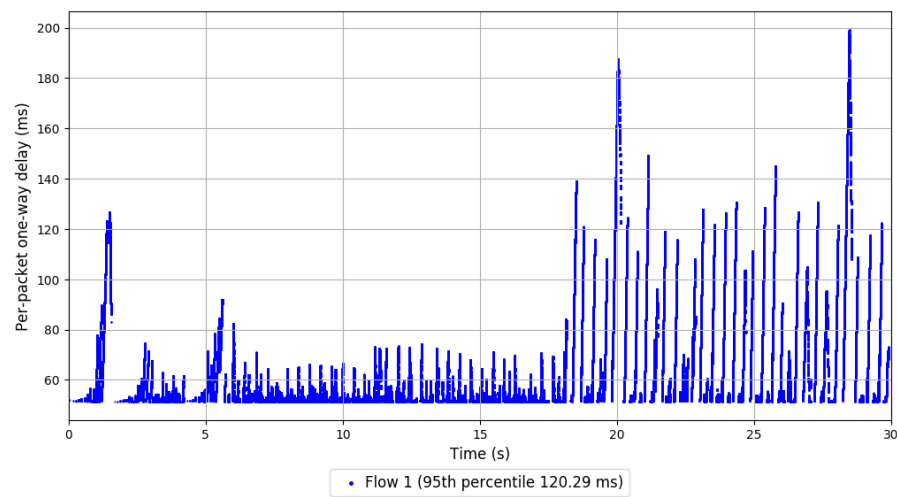
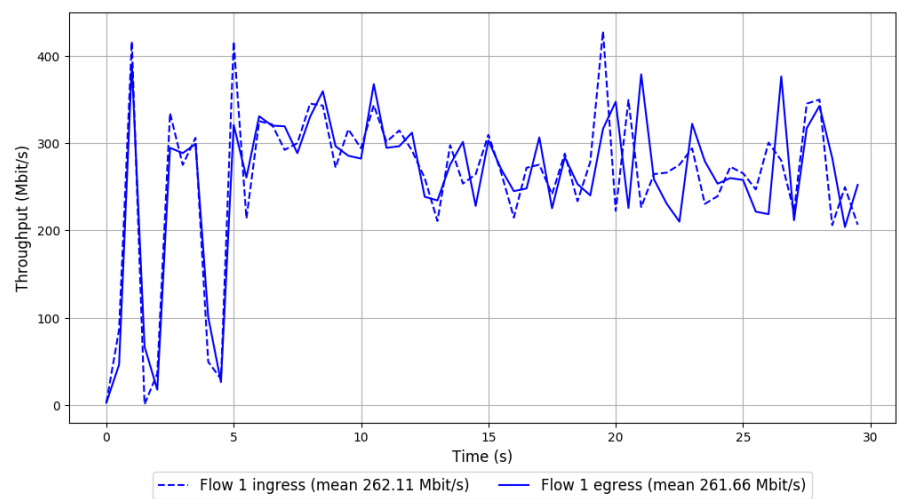
-- Flow 1:

Average throughput: 261.66 Mbit/s

95th percentile per-packet one-way delay: 120.291 ms

Loss rate: 0.10%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-01-09 02:05:46

End at: 2018-01-09 02:06:16

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 255.41 Mbit/s

95th percentile per-packet one-way delay: 95.159 ms

Loss rate: 1.12%

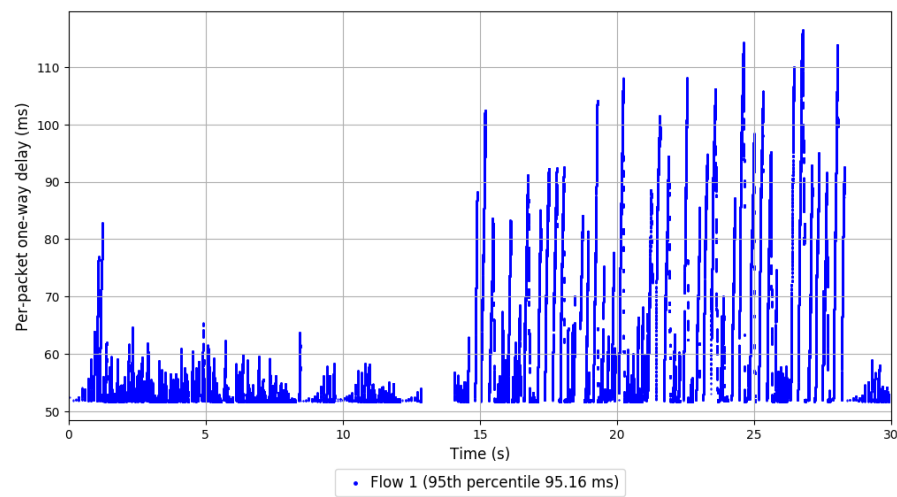
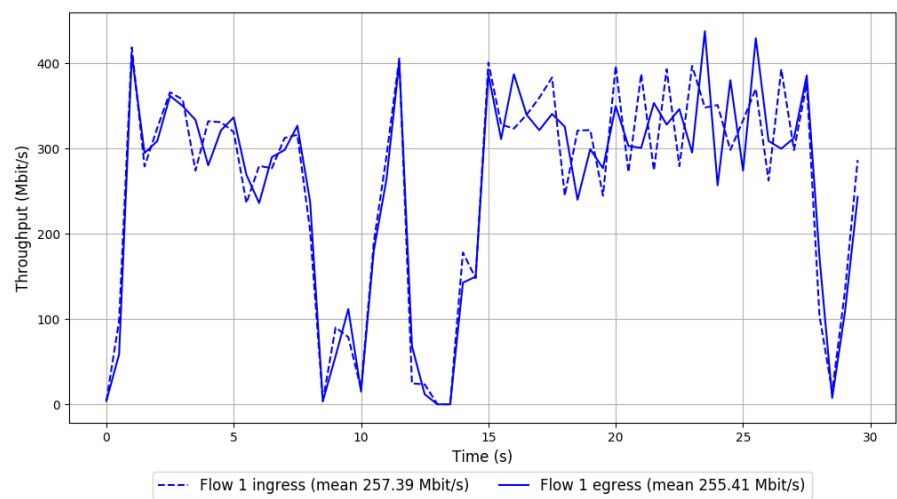
-- Flow 1:

Average throughput: 255.41 Mbit/s

95th percentile per-packet one-way delay: 95.159 ms

Loss rate: 1.12%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-01-09 02:16:42

End at: 2018-01-09 02:17:12

Below is generated by plot.py at 2018-01-09 05:11:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 230.42 Mbit/s

95th percentile per-packet one-way delay: 82.730 ms

Loss rate: 0.03%

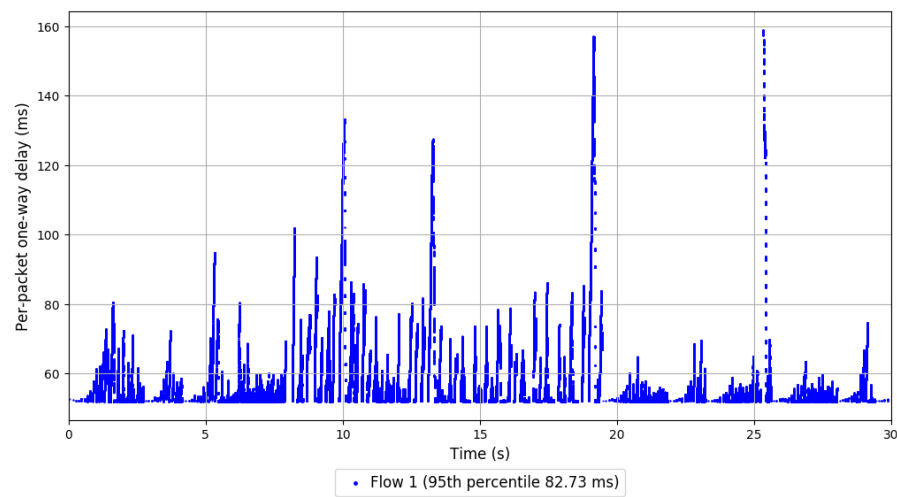
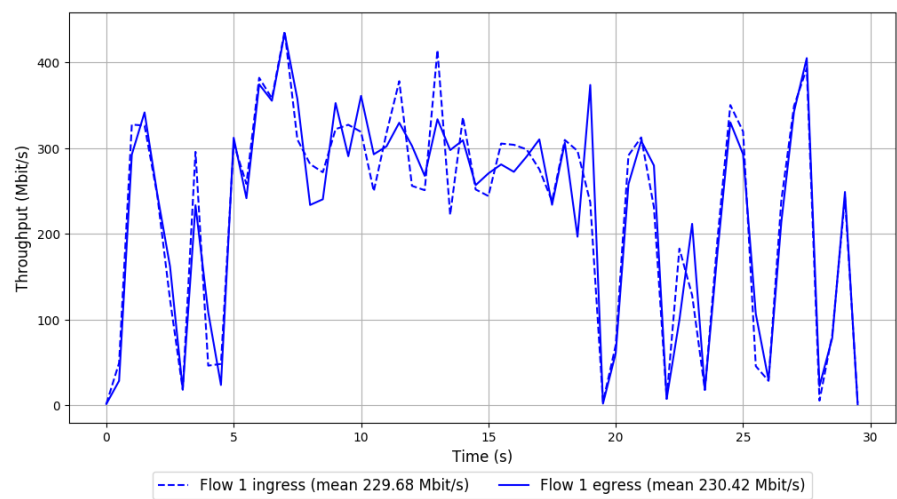
-- Flow 1:

Average throughput: 230.42 Mbit/s

95th percentile per-packet one-way delay: 82.730 ms

Loss rate: 0.03%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-01-09 02:27:52

End at: 2018-01-09 02:28:22

Below is generated by plot.py at 2018-01-09 05:11:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 217.63 Mbit/s

95th percentile per-packet one-way delay: 72.557 ms

Loss rate: 0.09%

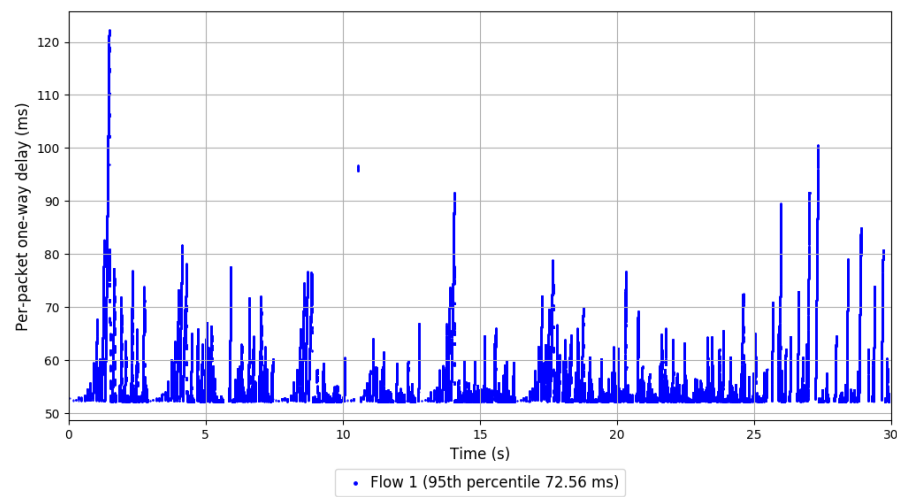
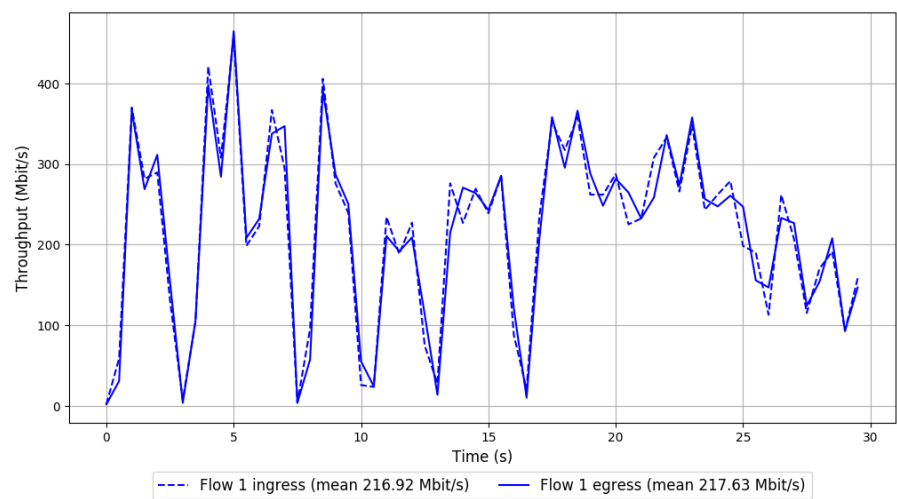
-- Flow 1:

Average throughput: 217.63 Mbit/s

95th percentile per-packet one-way delay: 72.557 ms

Loss rate: 0.09%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-01-09 02:39:22

End at: 2018-01-09 02:39:52

Below is generated by plot.py at 2018-01-09 05:12:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 242.37 Mbit/s

95th percentile per-packet one-way delay: 105.915 ms

Loss rate: 0.68%

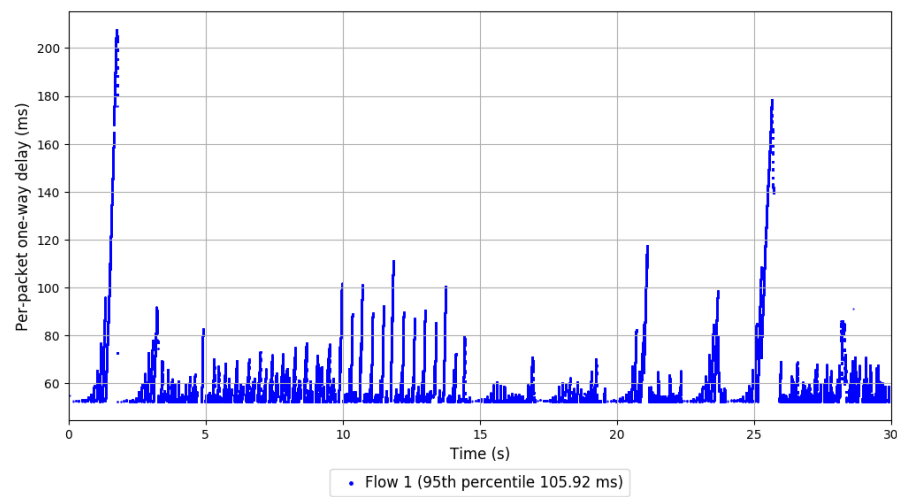
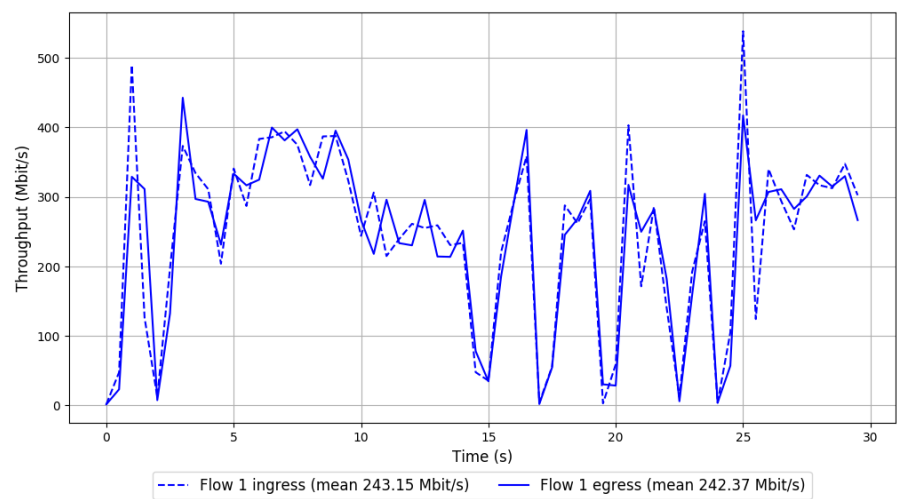
-- Flow 1:

Average throughput: 242.37 Mbit/s

95th percentile per-packet one-way delay: 105.915 ms

Loss rate: 0.68%

Run 10: Report of Verus — Data Link

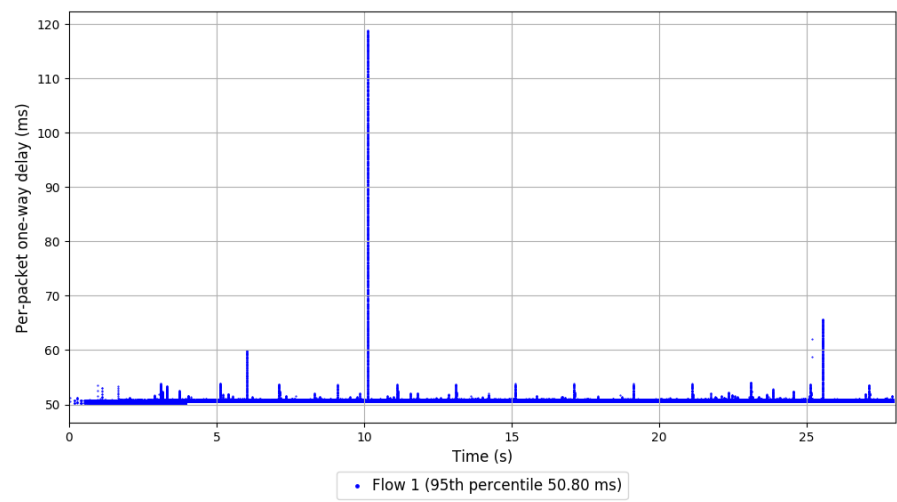
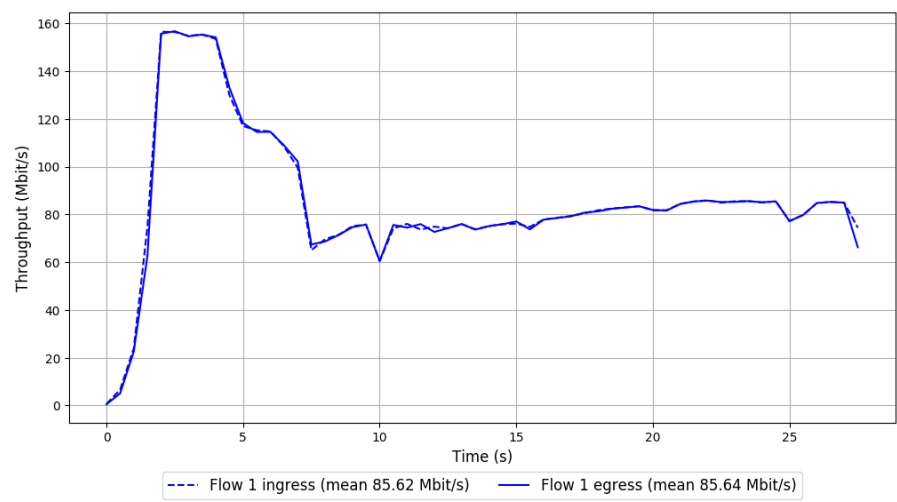


```
Run 1: Statistics of Copa

Start at: 2018-01-09 00:51:22
End at: 2018-01-09 00:51:52

# Below is generated by plot.py at 2018-01-09 05:12:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.64 Mbit/s
95th percentile per-packet one-way delay: 50.798 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 85.64 Mbit/s
95th percentile per-packet one-way delay: 50.798 ms
Loss rate: 0.35%
```

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

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

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

Below is generated by plot.py at 2018-01-09 05:12:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 55.51 Mbit/s

95th percentile per-packet one-way delay: 50.709 ms

Loss rate: 1.19%

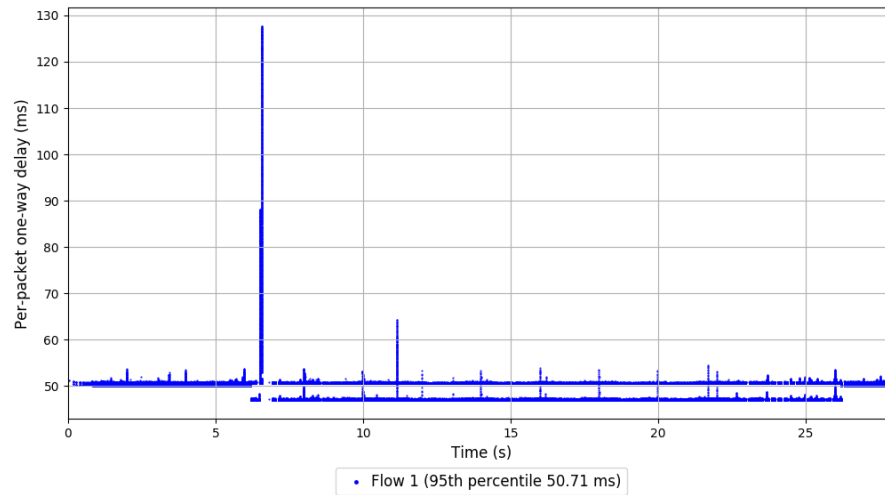
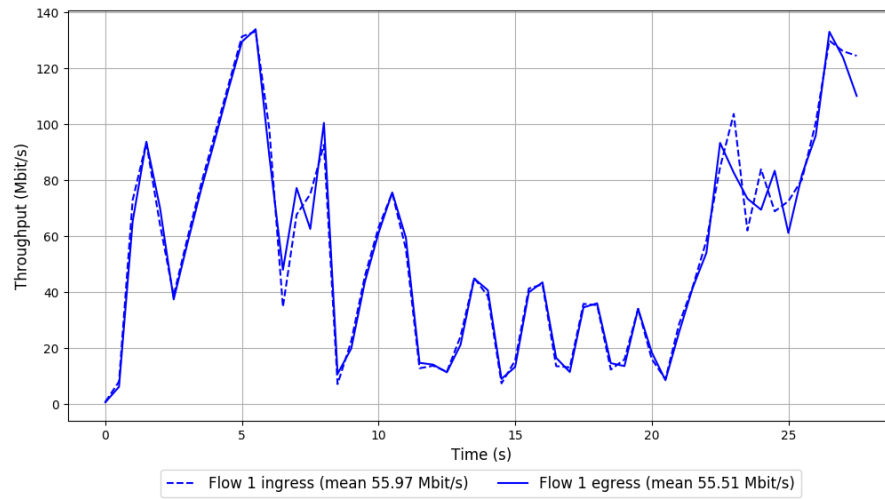
-- Flow 1:

Average throughput: 55.51 Mbit/s

95th percentile per-packet one-way delay: 50.709 ms

Loss rate: 1.19%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-01-09 01:14:34

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

Below is generated by plot.py at 2018-01-09 05:12:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 76.32 Mbit/s

95th percentile per-packet one-way delay: 50.884 ms

Loss rate: 0.41%

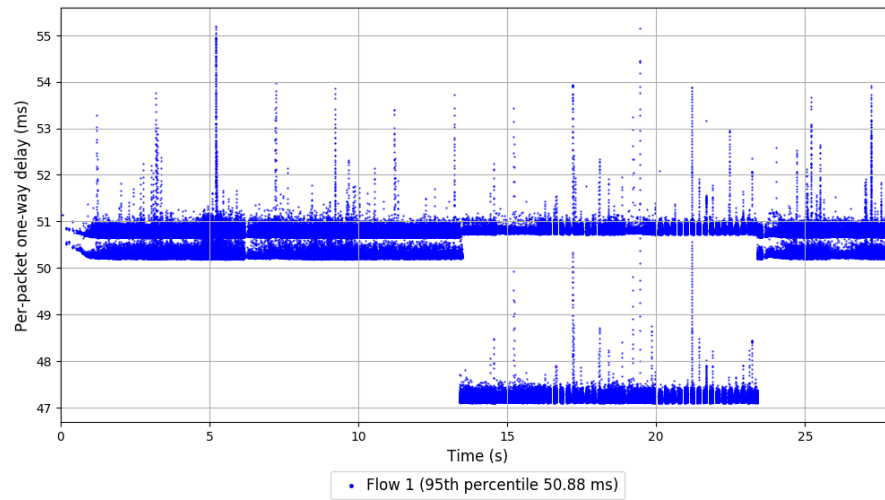
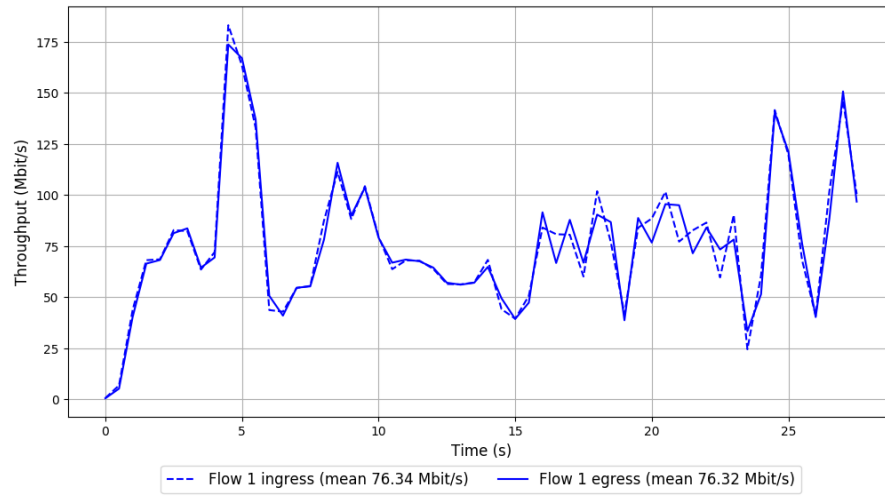
-- Flow 1:

Average throughput: 76.32 Mbit/s

95th percentile per-packet one-way delay: 50.884 ms

Loss rate: 0.41%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

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

End at: 2018-01-09 01:26:22

Below is generated by plot.py at 2018-01-09 05:12:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.55 Mbit/s

95th percentile per-packet one-way delay: 51.159 ms

Loss rate: 0.76%

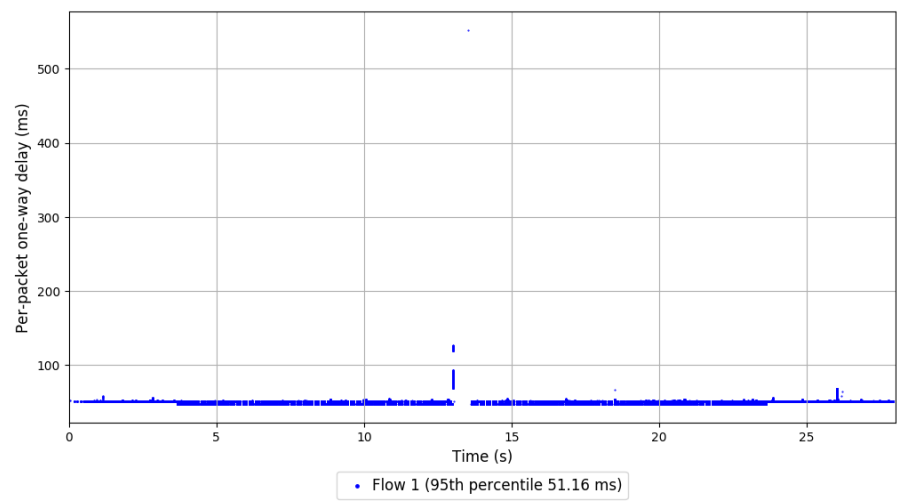
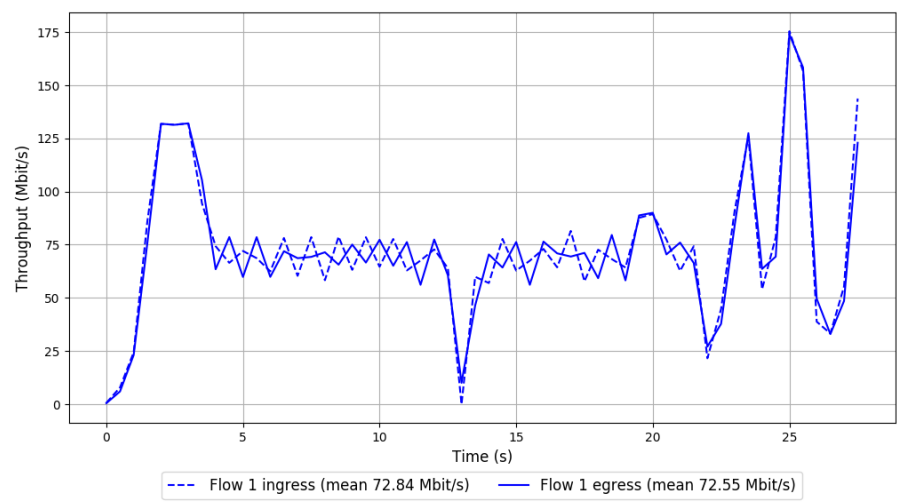
-- Flow 1:

Average throughput: 72.55 Mbit/s

95th percentile per-packet one-way delay: 51.159 ms

Loss rate: 0.76%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-01-09 01:37:04

End at: 2018-01-09 01:37:34

Below is generated by plot.py at 2018-01-09 05:13:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.75 Mbit/s

95th percentile per-packet one-way delay: 51.304 ms

Loss rate: 0.32%

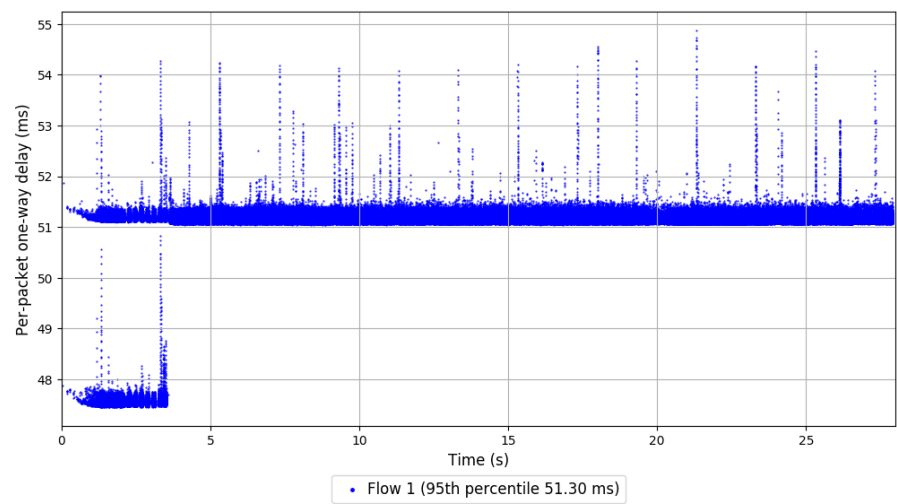
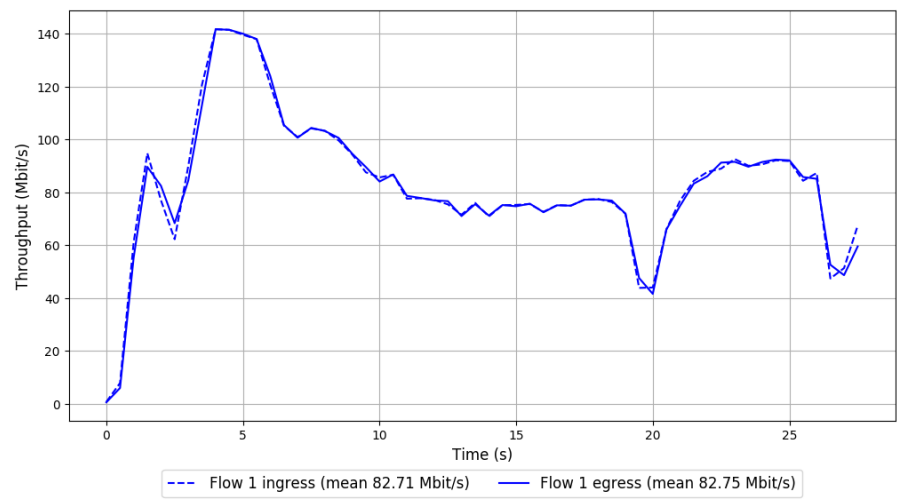
-- Flow 1:

Average throughput: 82.75 Mbit/s

95th percentile per-packet one-way delay: 51.304 ms

Loss rate: 0.32%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-01-09 01:48:40

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

Below is generated by plot.py at 2018-01-09 05:13:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 80.12 Mbit/s

95th percentile per-packet one-way delay: 51.421 ms

Loss rate: 0.35%

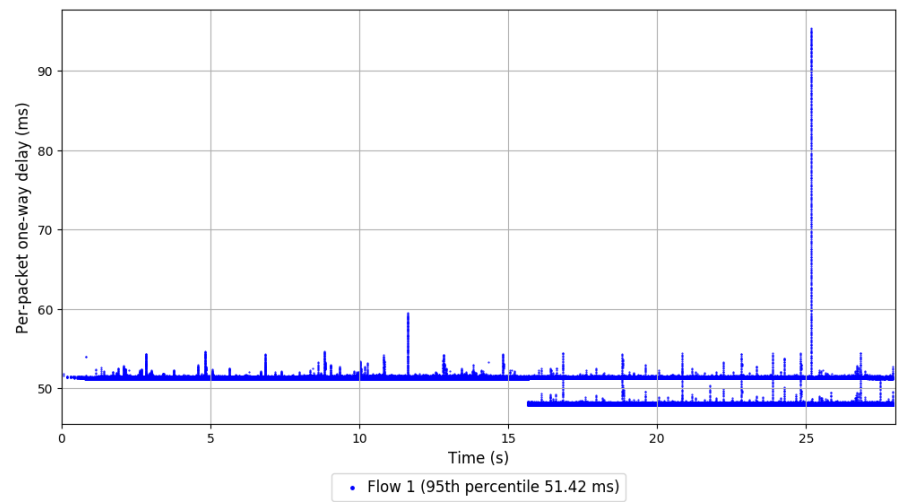
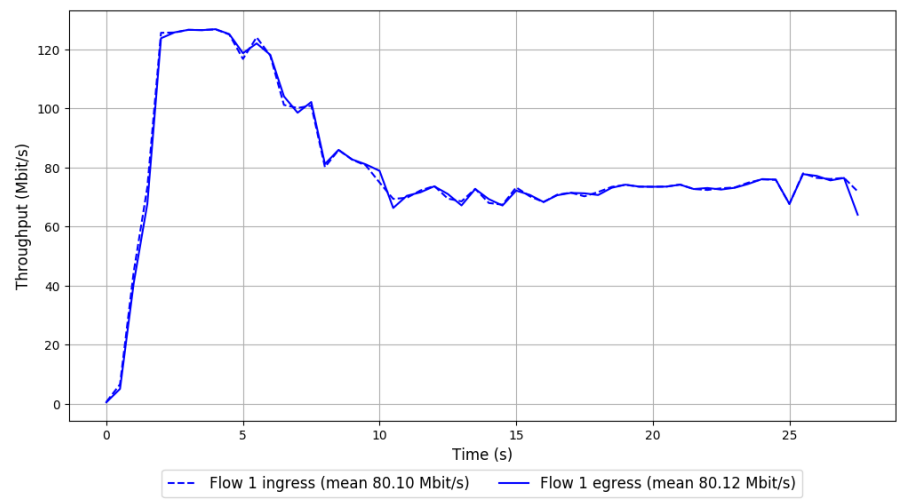
-- Flow 1:

Average throughput: 80.12 Mbit/s

95th percentile per-packet one-way delay: 51.421 ms

Loss rate: 0.35%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-01-09 02:00:23

End at: 2018-01-09 02:00:53

Below is generated by plot.py at 2018-01-09 05:13:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 79.22 Mbit/s

95th percentile per-packet one-way delay: 51.656 ms

Loss rate: 0.92%

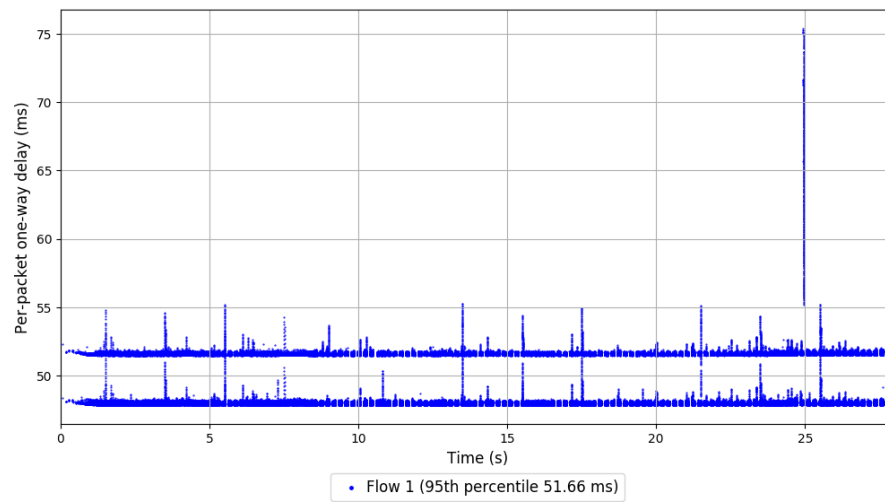
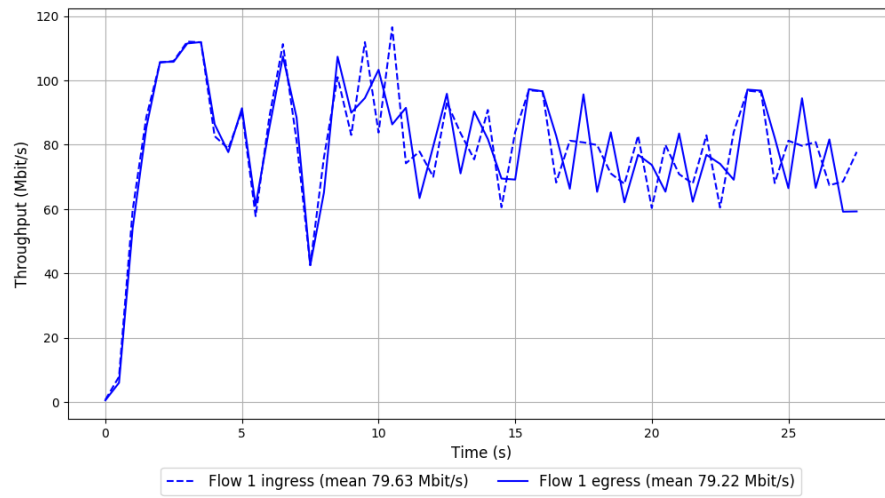
-- Flow 1:

Average throughput: 79.22 Mbit/s

95th percentile per-packet one-way delay: 51.656 ms

Loss rate: 0.92%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-01-09 02:11:08

End at: 2018-01-09 02:11:38

Below is generated by plot.py at 2018-01-09 05:13:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.92 Mbit/s

95th percentile per-packet one-way delay: 51.954 ms

Loss rate: 0.45%

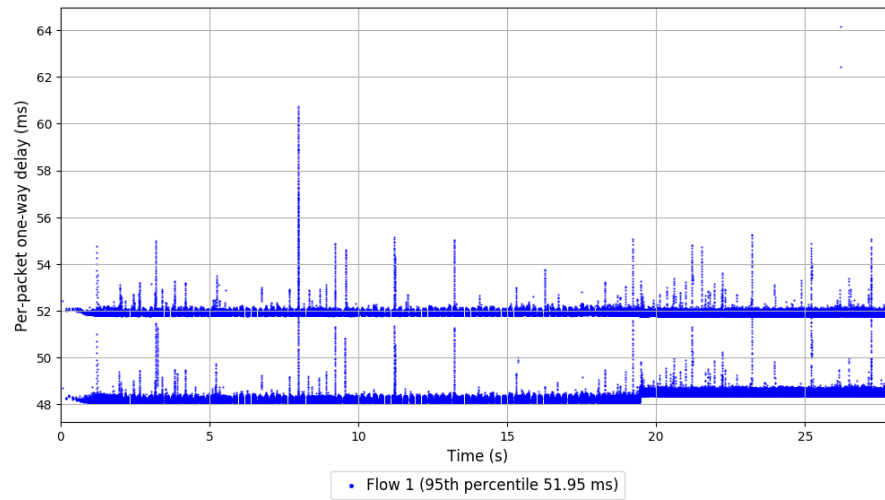
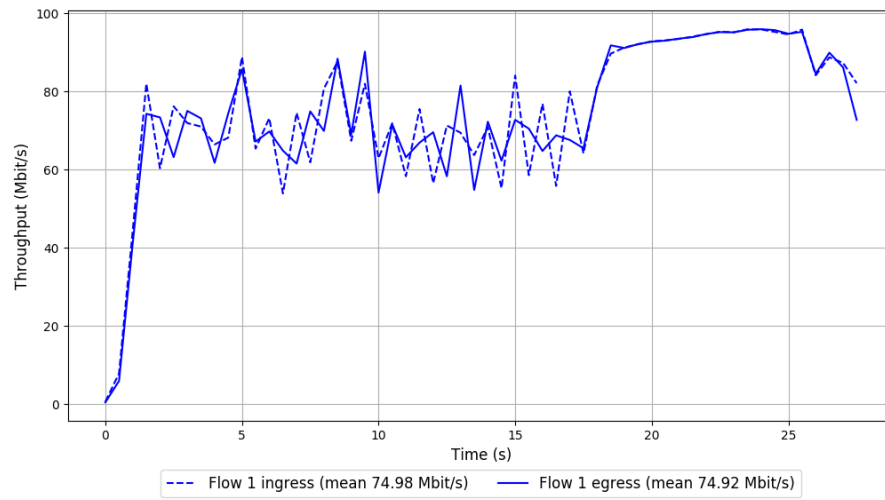
-- Flow 1:

Average throughput: 74.92 Mbit/s

95th percentile per-packet one-way delay: 51.954 ms

Loss rate: 0.45%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-01-09 02:22:26

End at: 2018-01-09 02:22:56

Below is generated by plot.py at 2018-01-09 05:13:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.11 Mbit/s

95th percentile per-packet one-way delay: 52.201 ms

Loss rate: 0.15%

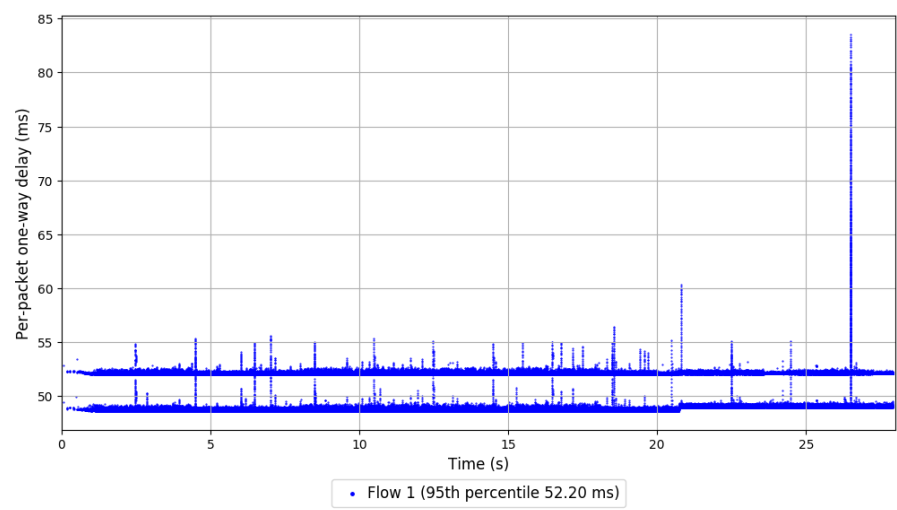
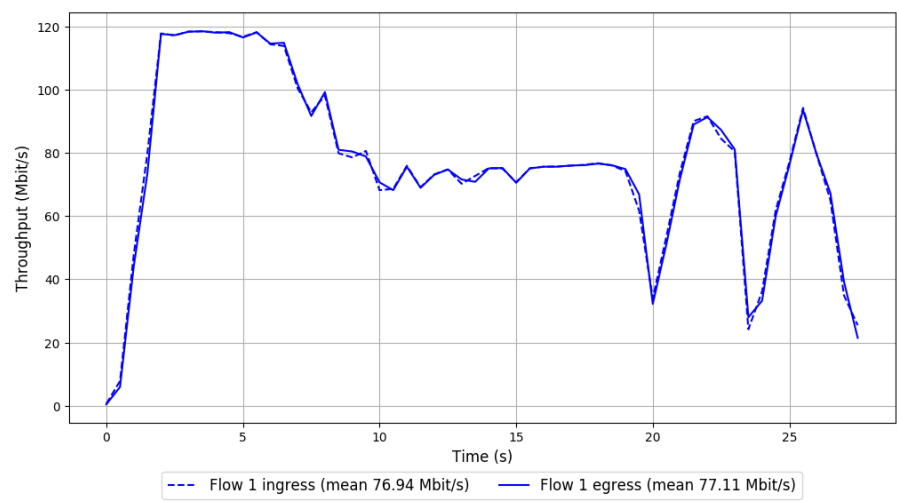
-- Flow 1:

Average throughput: 77.11 Mbit/s

95th percentile per-packet one-way delay: 52.201 ms

Loss rate: 0.15%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-01-09 02:33:49

End at: 2018-01-09 02:34:19

Below is generated by plot.py at 2018-01-09 05:13:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.42 Mbit/s

95th percentile per-packet one-way delay: 52.497 ms

Loss rate: 0.49%

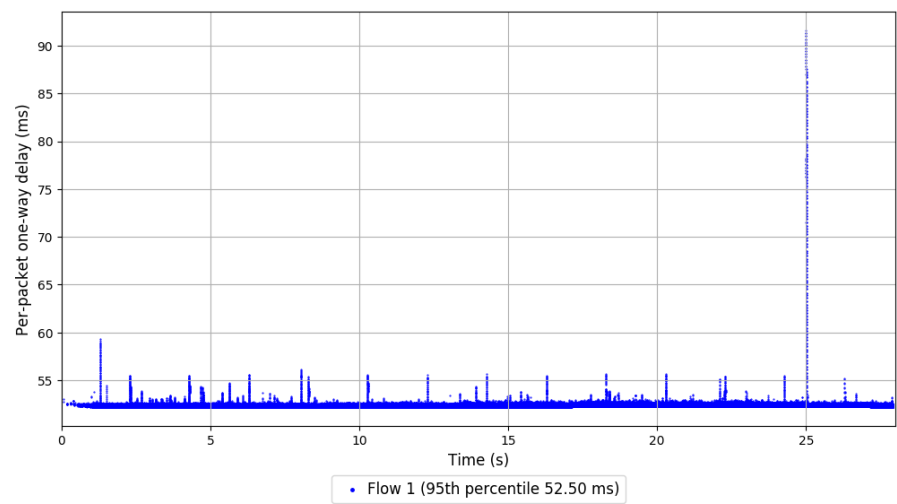
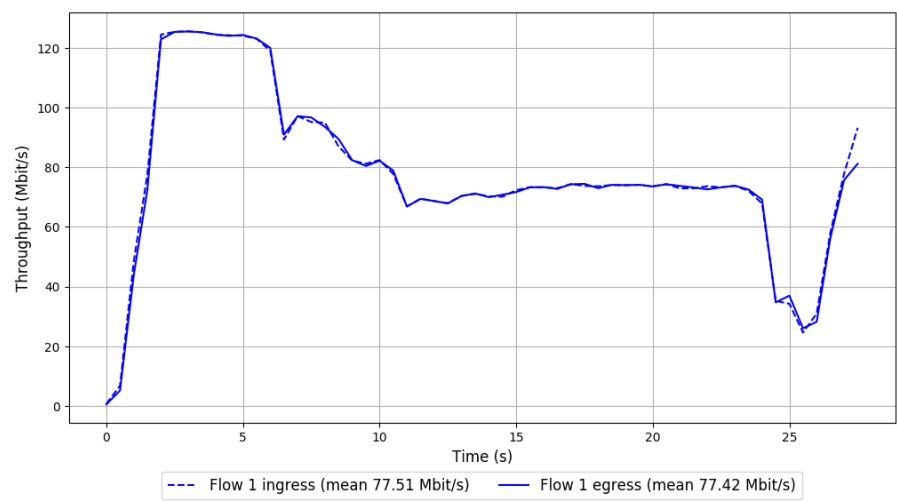
-- Flow 1:

Average throughput: 77.42 Mbit/s

95th percentile per-packet one-way delay: 52.497 ms

Loss rate: 0.49%

Run 10: Report of Copa — Data Link

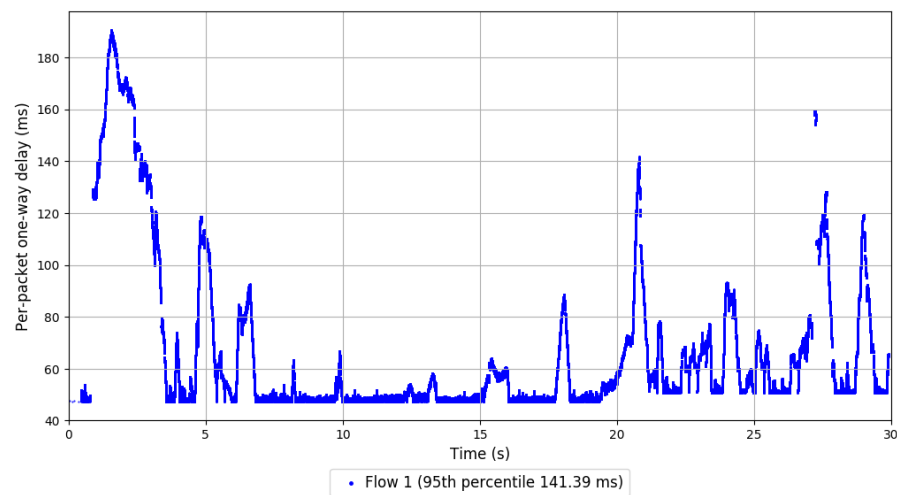
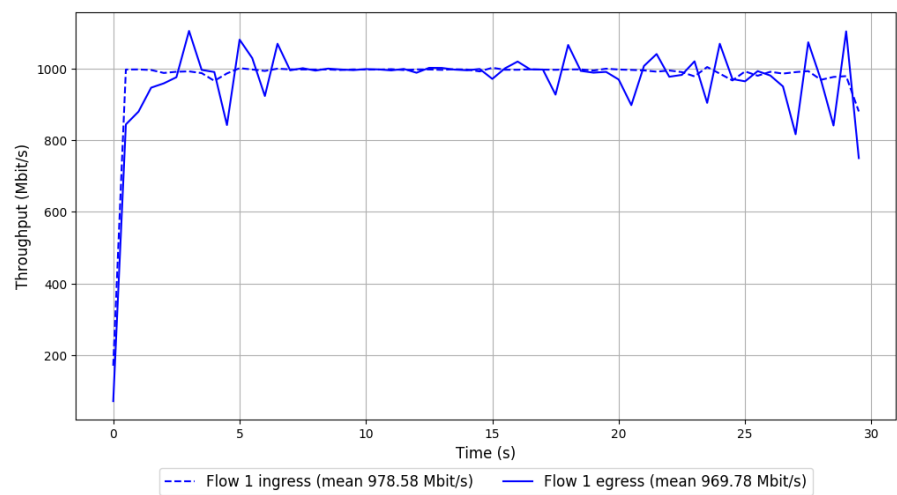


```
Run 1: Statistics of FillP

Start at: 2018-01-09 00:50:08
End at: 2018-01-09 00:50:39

# Below is generated by plot.py at 2018-01-09 05:28:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 969.78 Mbit/s
95th percentile per-packet one-way delay: 141.392 ms
Loss rate: 1.23%
-- Flow 1:
Average throughput: 969.78 Mbit/s
95th percentile per-packet one-way delay: 141.392 ms
Loss rate: 1.23%
```

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

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

End at: 2018-01-09 01:02:06

Below is generated by plot.py at 2018-01-09 05:29:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 976.26 Mbit/s

95th percentile per-packet one-way delay: 81.892 ms

Loss rate: 0.41%

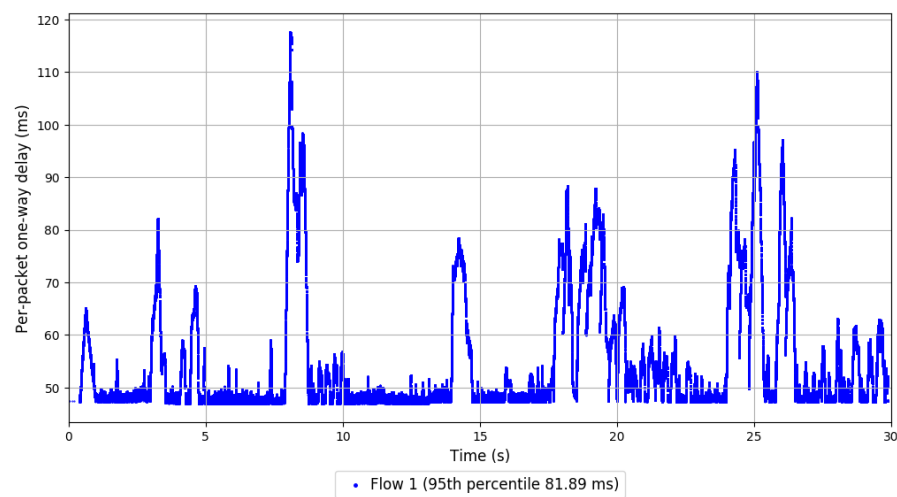
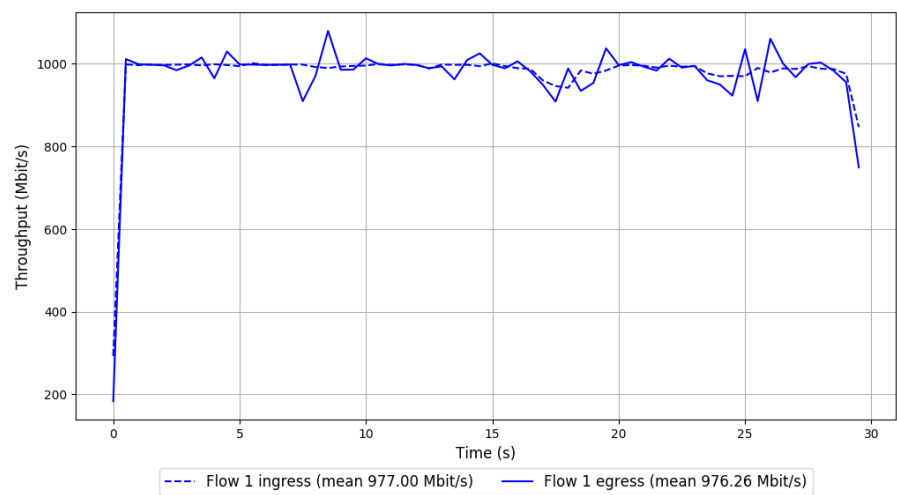
-- Flow 1:

Average throughput: 976.26 Mbit/s

95th percentile per-packet one-way delay: 81.892 ms

Loss rate: 0.41%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-01-09 01:13:21

End at: 2018-01-09 01:13:51

Below is generated by plot.py at 2018-01-09 05:29:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 971.92 Mbit/s

95th percentile per-packet one-way delay: 94.388 ms

Loss rate: 1.07%

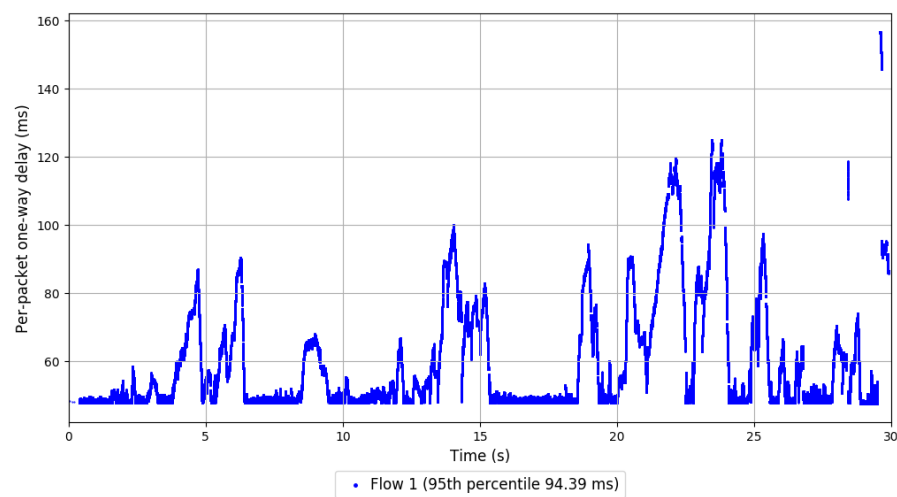
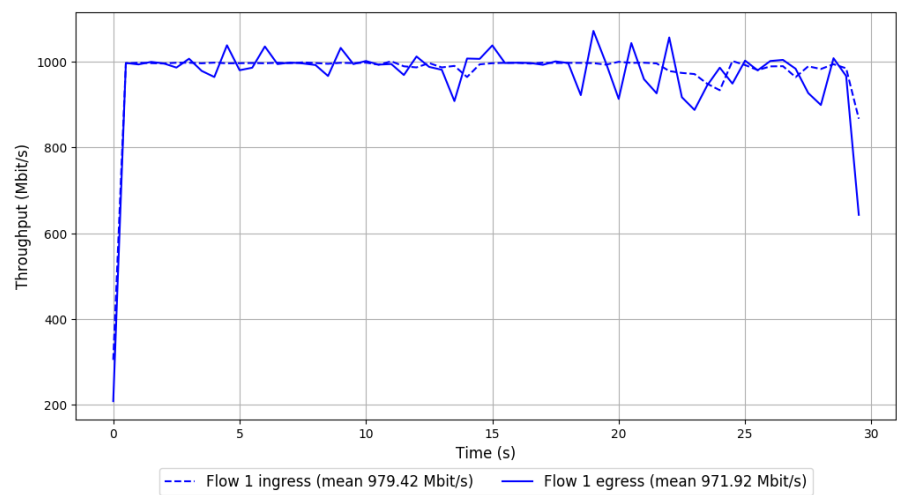
-- Flow 1:

Average throughput: 971.92 Mbit/s

95th percentile per-packet one-way delay: 94.388 ms

Loss rate: 1.07%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-01-09 01:24:41

End at: 2018-01-09 01:25:11

Below is generated by plot.py at 2018-01-09 05:29:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 868.03 Mbit/s

95th percentile per-packet one-way delay: 90.092 ms

Loss rate: 0.51%

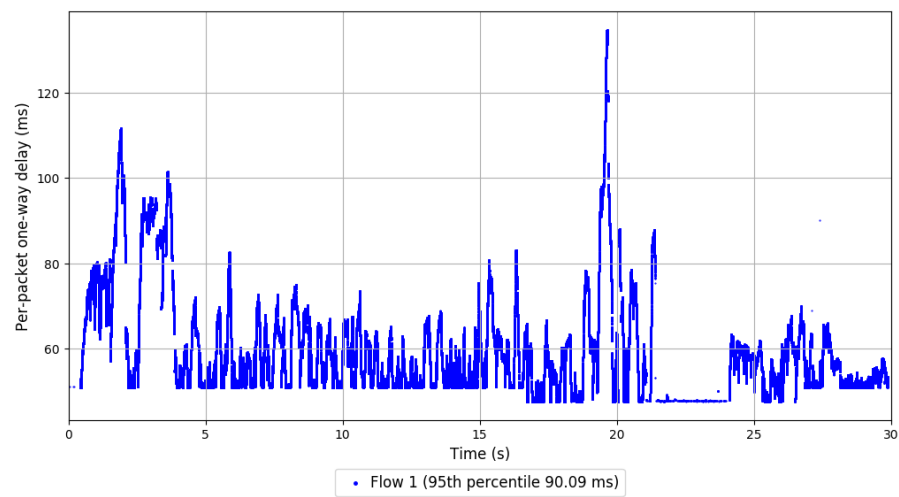
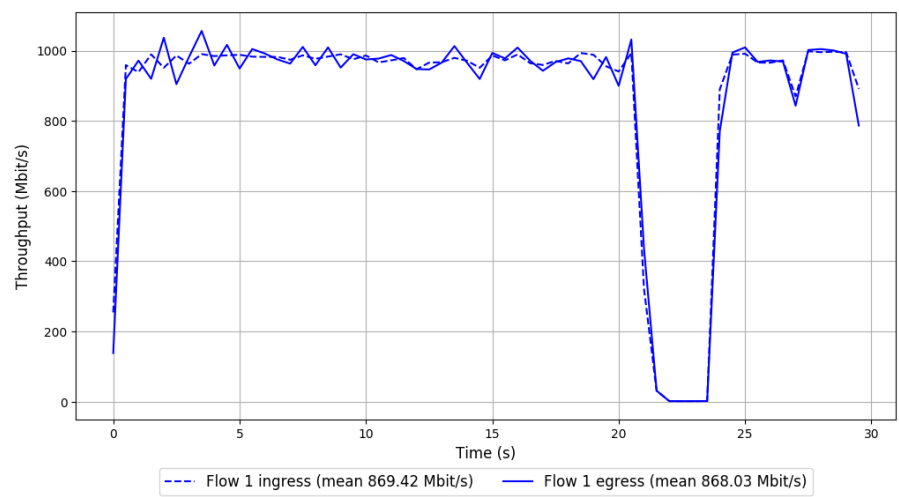
-- Flow 1:

Average throughput: 868.03 Mbit/s

95th percentile per-packet one-way delay: 90.092 ms

Loss rate: 0.51%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-01-09 01:35:51

End at: 2018-01-09 01:36:21

Below is generated by plot.py at 2018-01-09 05:29:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 968.47 Mbit/s

95th percentile per-packet one-way delay: 161.351 ms

Loss rate: 0.74%

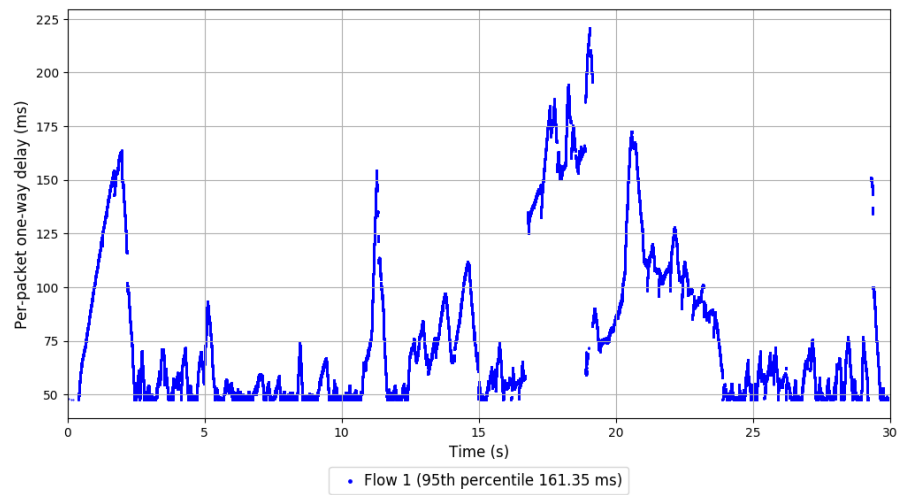
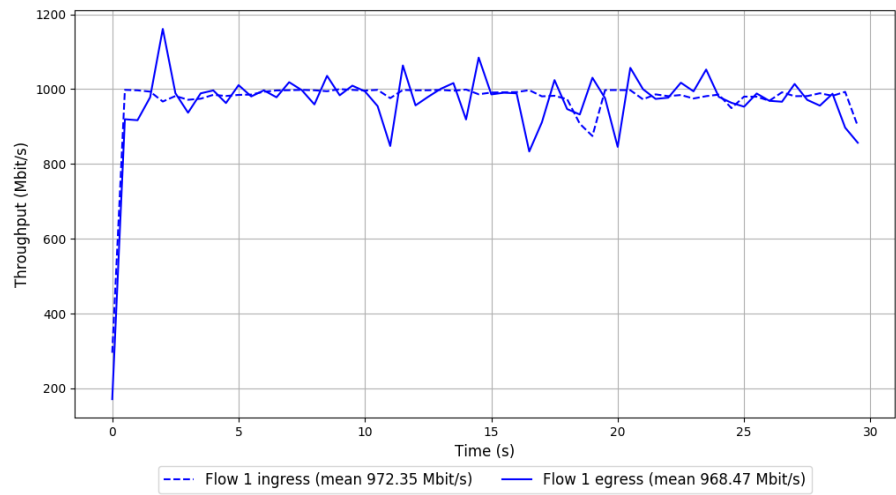
-- Flow 1:

Average throughput: 968.47 Mbit/s

95th percentile per-packet one-way delay: 161.351 ms

Loss rate: 0.74%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-01-09 01:47:27

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

Below is generated by plot.py at 2018-01-09 05:29:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 972.27 Mbit/s

95th percentile per-packet one-way delay: 83.410 ms

Loss rate: 0.40%

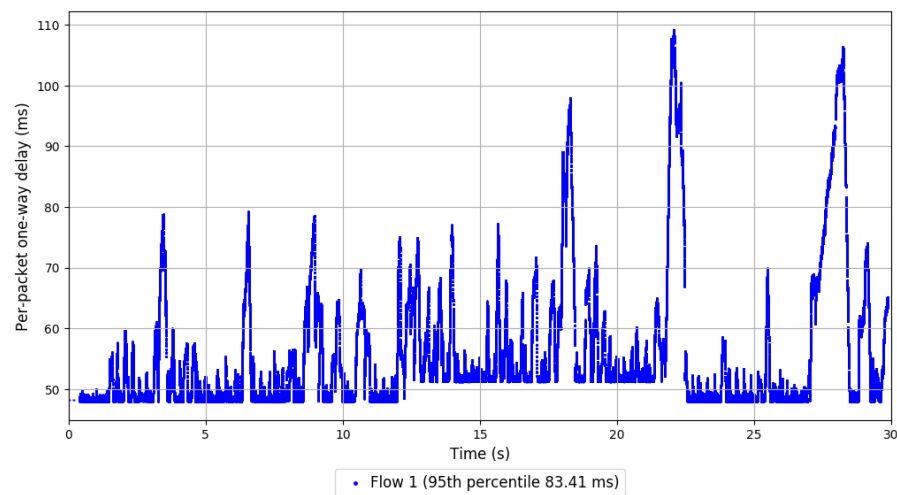
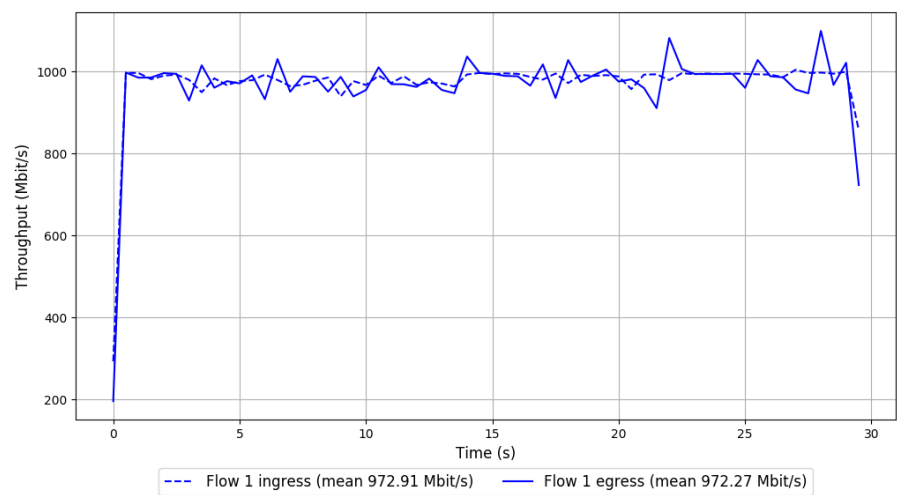
-- Flow 1:

Average throughput: 972.27 Mbit/s

95th percentile per-packet one-way delay: 83.410 ms

Loss rate: 0.40%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-01-09 01:59:10

End at: 2018-01-09 01:59:40

Below is generated by plot.py at 2018-01-09 05:30:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 983.78 Mbit/s

95th percentile per-packet one-way delay: 53.613 ms

Loss rate: 0.41%

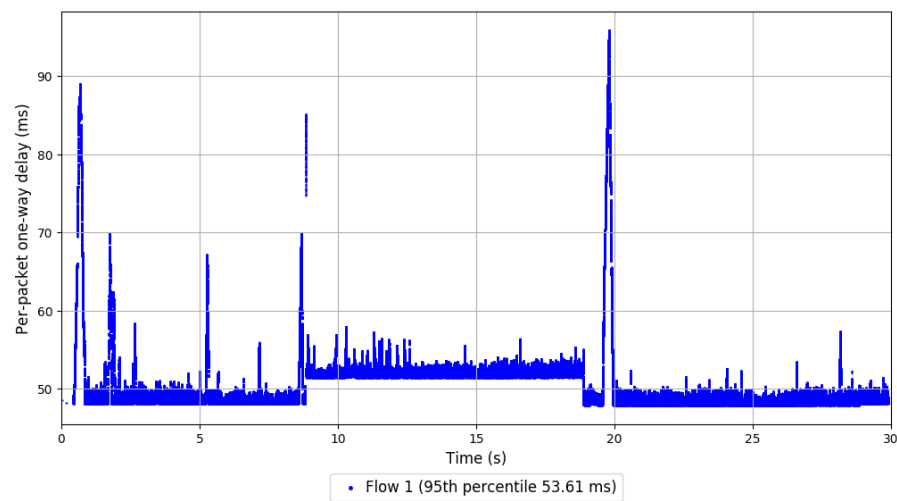
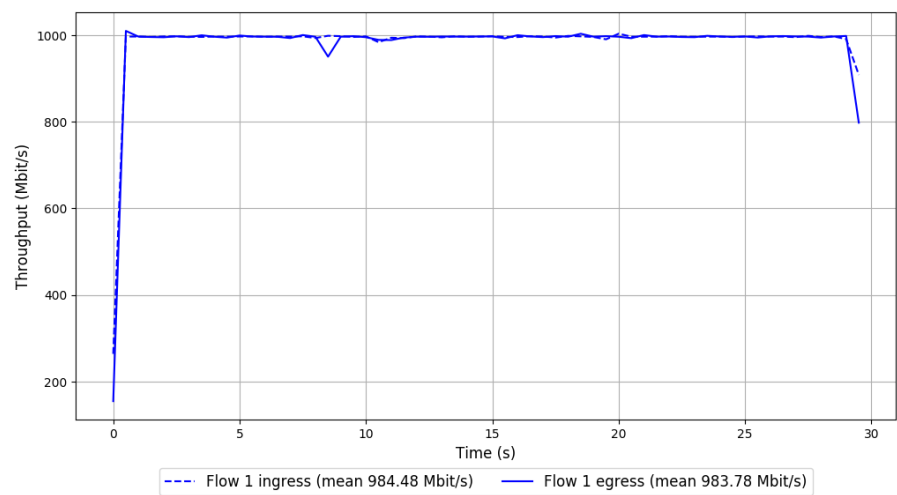
-- Flow 1:

Average throughput: 983.78 Mbit/s

95th percentile per-packet one-way delay: 53.613 ms

Loss rate: 0.41%

Run 7: Report of FillP — Data Link

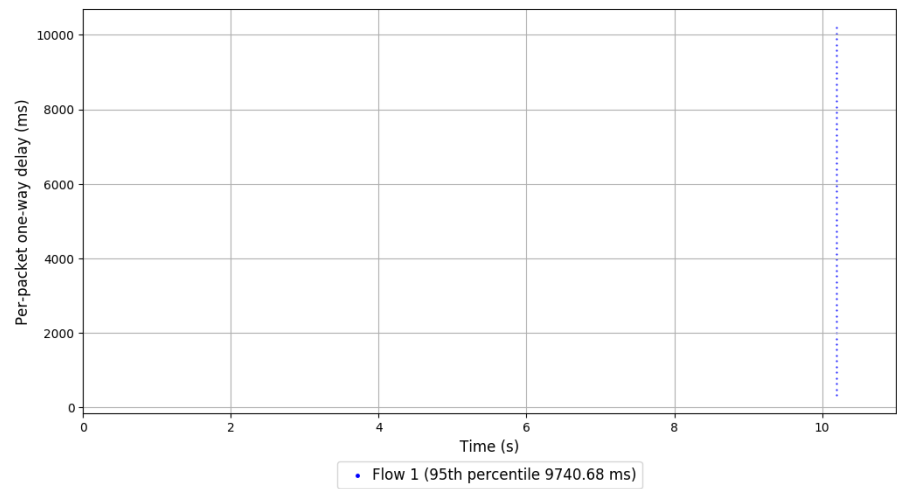
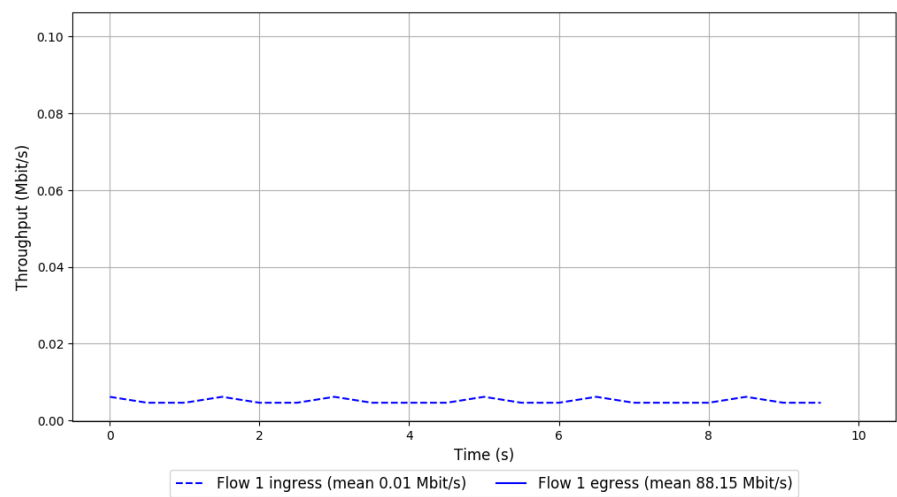


Run 8: Statistics of FillP

Start at: 2018-01-09 02:10:31

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

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-01-09 02:21:25

End at: 2018-01-09 02:21:55

Below is generated by plot.py at 2018-01-09 05:30:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 621.72 Mbit/s

95th percentile per-packet one-way delay: 241.236 ms

Loss rate: 2.09%

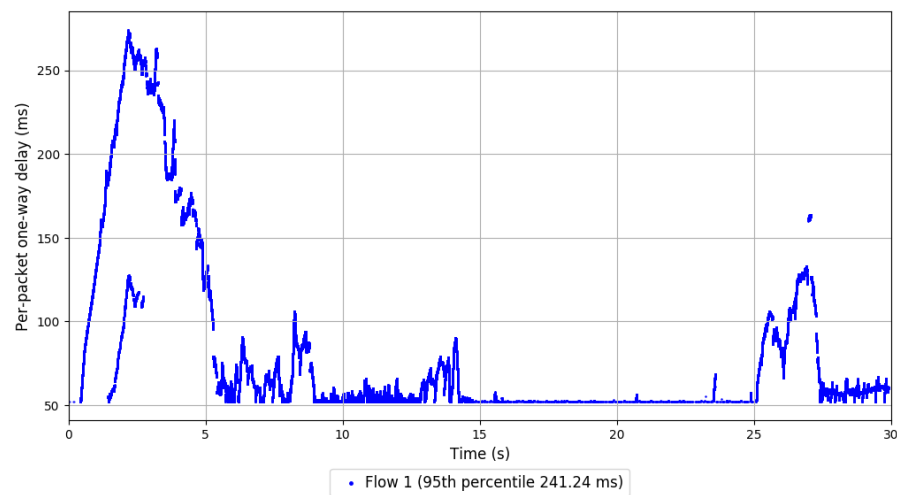
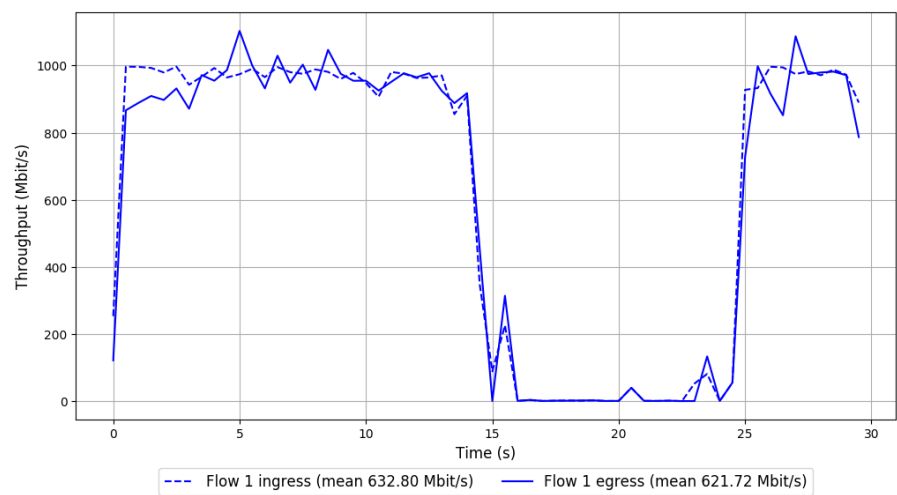
-- Flow 1:

Average throughput: 621.72 Mbit/s

95th percentile per-packet one-way delay: 241.236 ms

Loss rate: 2.09%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-01-09 02:32:36

End at: 2018-01-09 02:33:06

Below is generated by plot.py at 2018-01-09 05:34:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 955.56 Mbit/s

95th percentile per-packet one-way delay: 103.682 ms

Loss rate: 0.65%

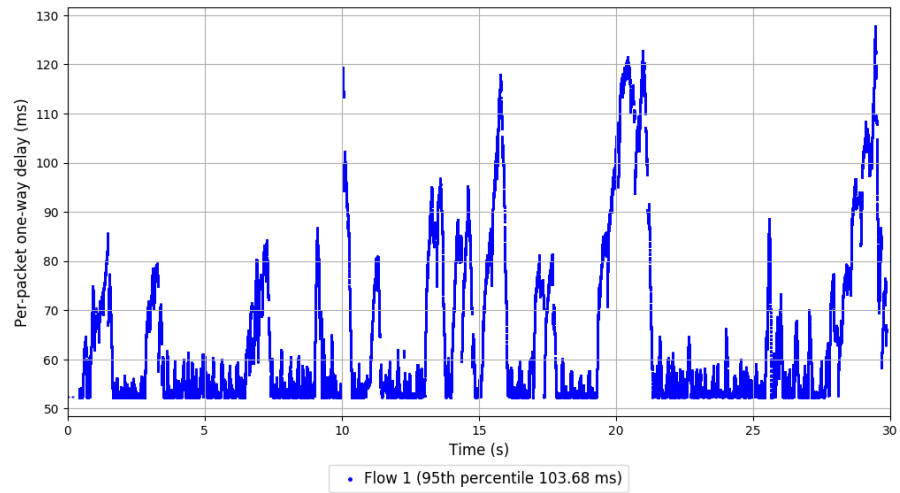
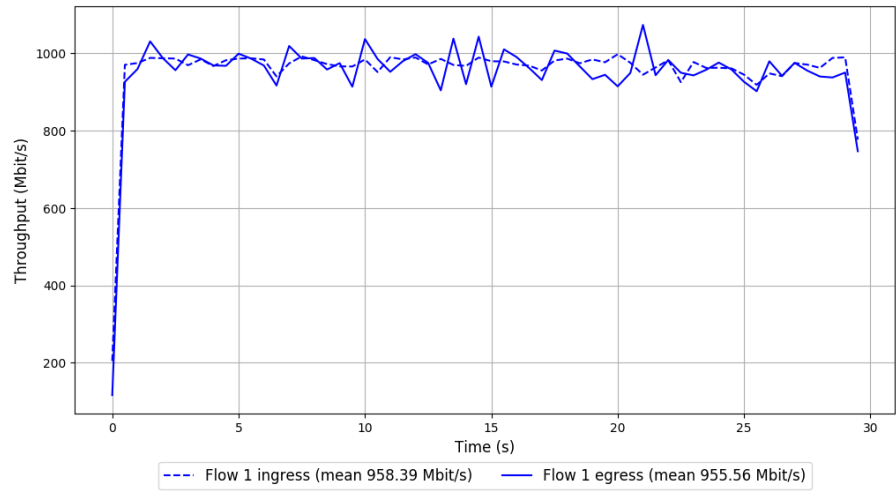
-- Flow 1:

Average throughput: 955.56 Mbit/s

95th percentile per-packet one-way delay: 103.682 ms

Loss rate: 0.65%

Run 10: Report of FillP — Data Link

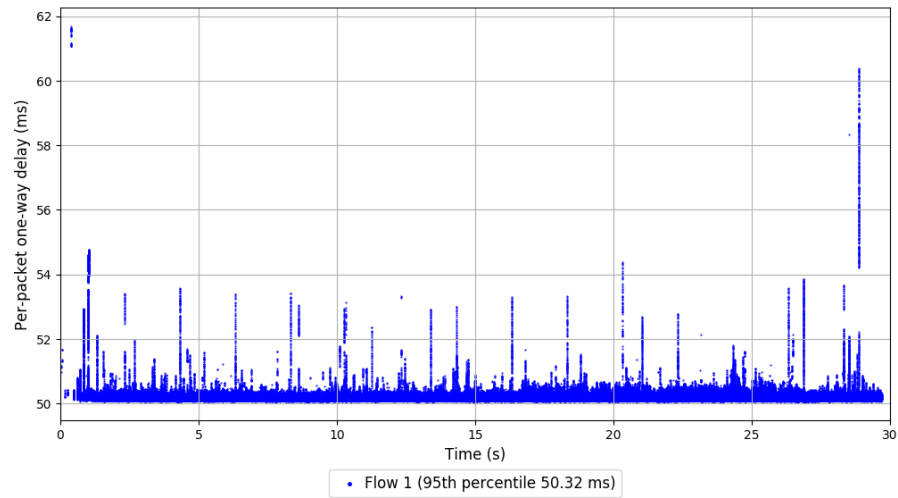
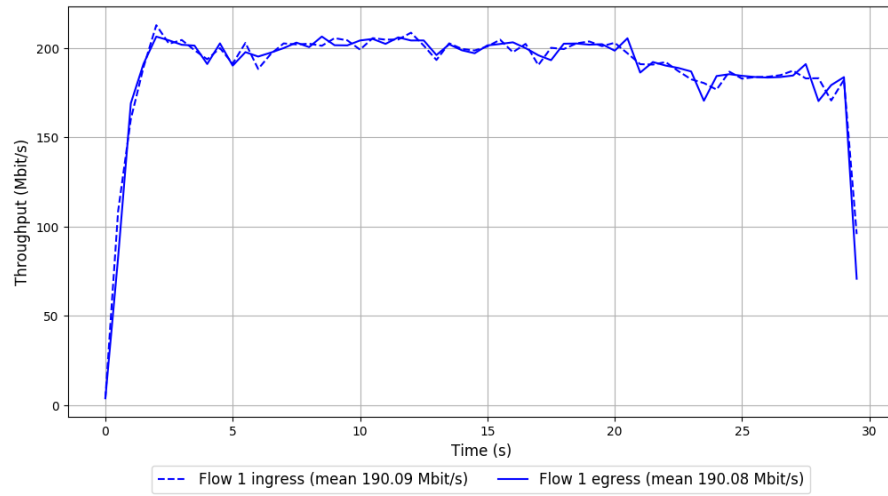


```
Run 1: Statistics of Indigo

Start at: 2018-01-09 00:52:06
End at: 2018-01-09 00:52:36

# Below is generated by plot.py at 2018-01-09 05:34:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 190.08 Mbit/s
95th percentile per-packet one-way delay: 50.324 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 190.08 Mbit/s
95th percentile per-packet one-way delay: 50.324 ms
Loss rate: 0.36%
```

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

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

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

Below is generated by plot.py at 2018-01-09 05:34:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 189.17 Mbit/s

95th percentile per-packet one-way delay: 50.734 ms

Loss rate: 0.48%

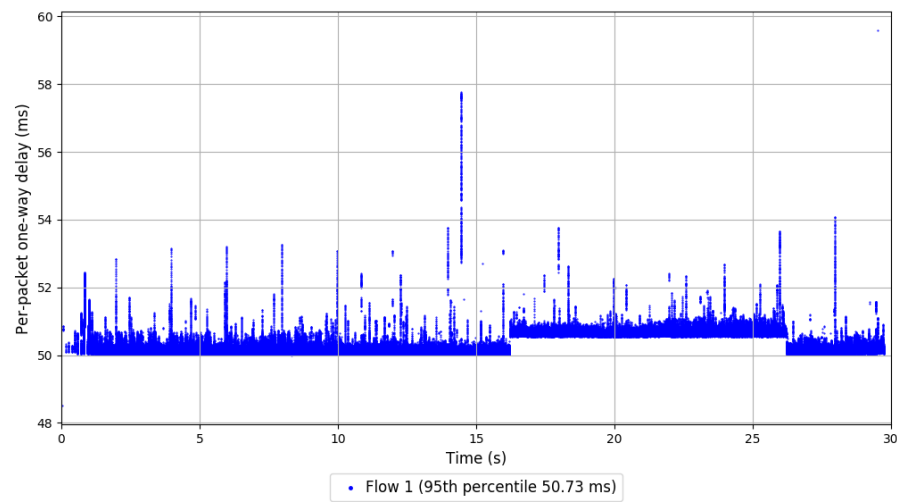
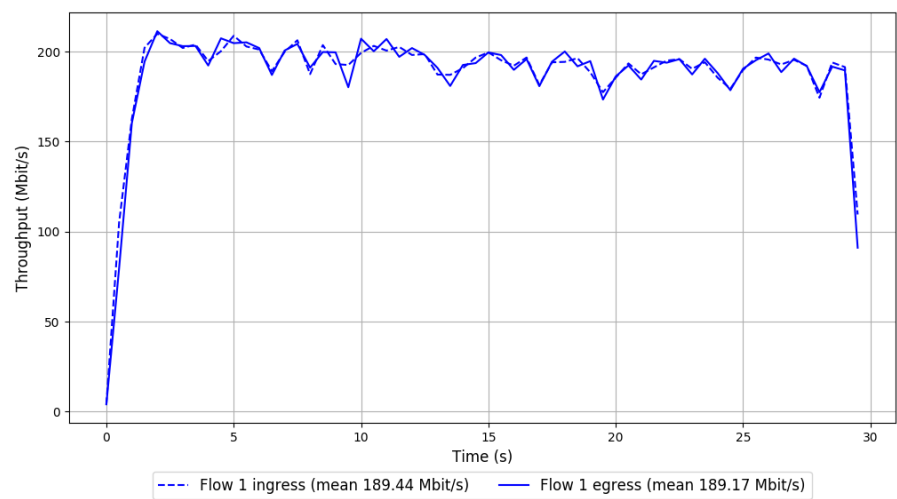
-- Flow 1:

Average throughput: 189.17 Mbit/s

95th percentile per-packet one-way delay: 50.734 ms

Loss rate: 0.48%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2018-01-09 01:15:17

End at: 2018-01-09 01:15:47

Below is generated by plot.py at 2018-01-09 05:34:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 190.37 Mbit/s

95th percentile per-packet one-way delay: 50.945 ms

Loss rate: 0.36%

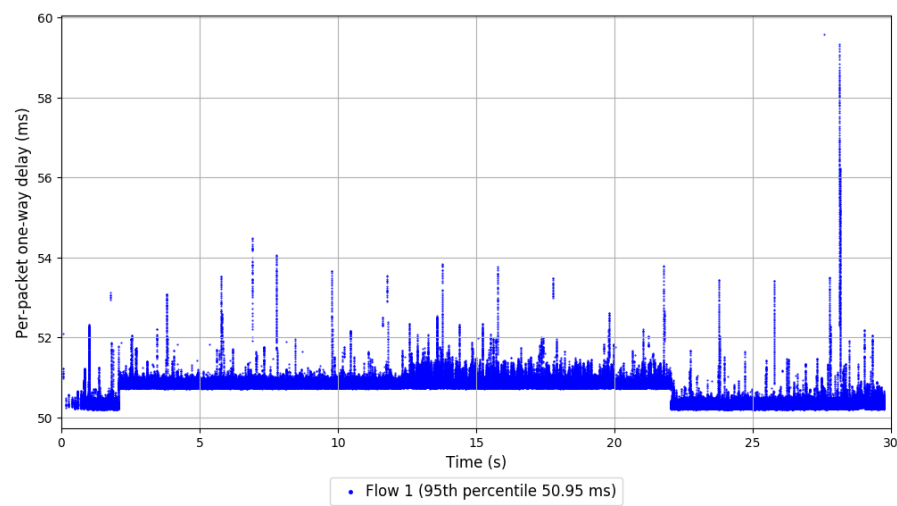
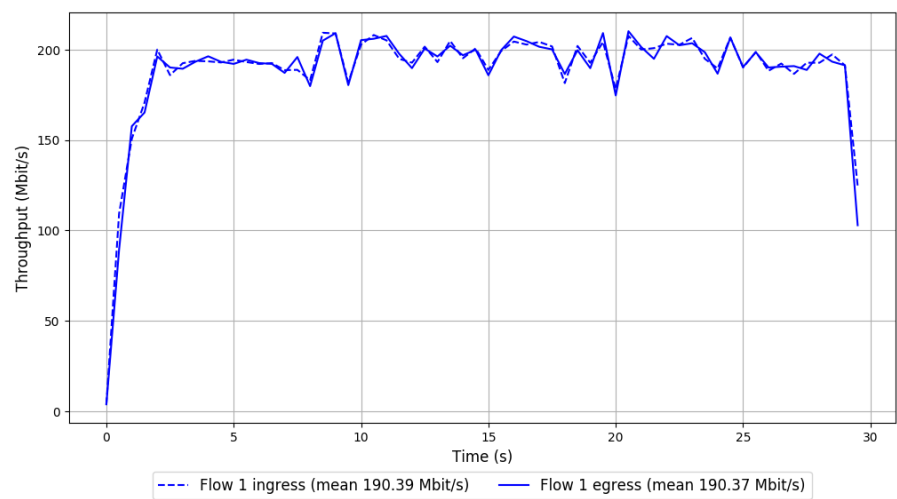
-- Flow 1:

Average throughput: 190.37 Mbit/s

95th percentile per-packet one-way delay: 50.945 ms

Loss rate: 0.36%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2018-01-09 01:26:34

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

Below is generated by plot.py at 2018-01-09 05:34:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 189.24 Mbit/s

95th percentile per-packet one-way delay: 51.167 ms

Loss rate: 0.38%

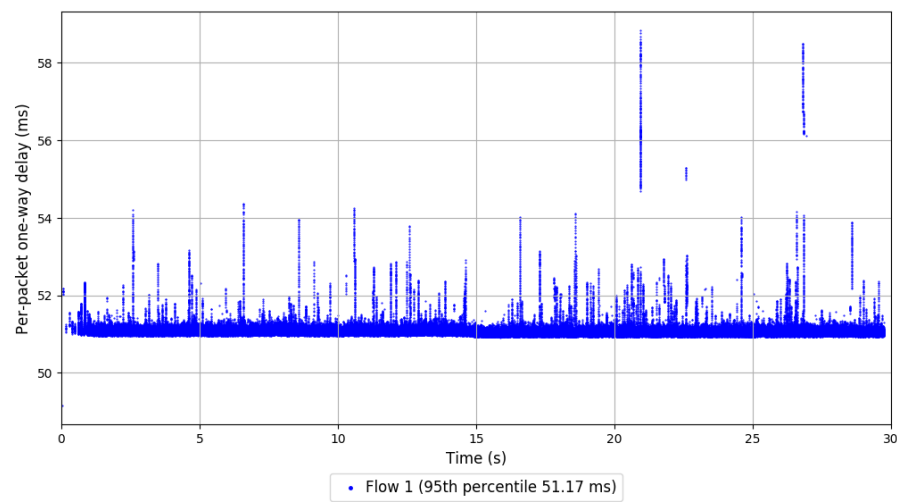
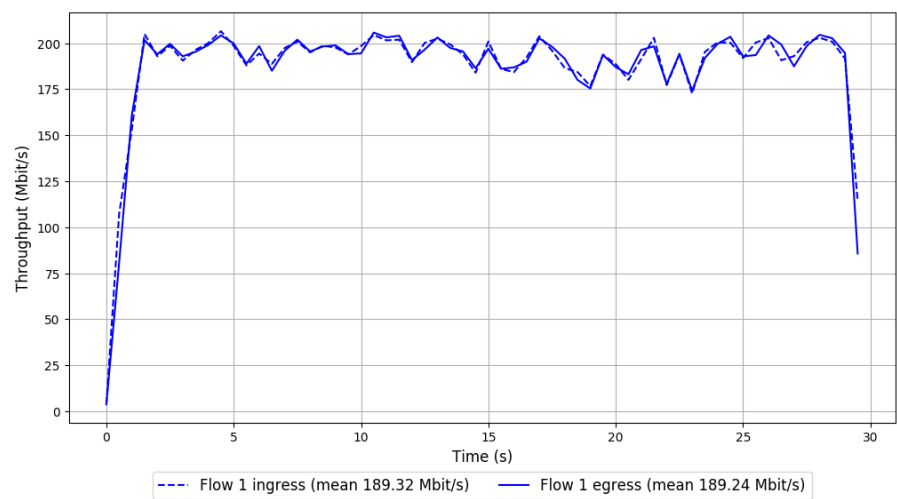
-- Flow 1:

Average throughput: 189.24 Mbit/s

95th percentile per-packet one-way delay: 51.167 ms

Loss rate: 0.38%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2018-01-09 01:37:48

End at: 2018-01-09 01:38:18

Below is generated by plot.py at 2018-01-09 05:34:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 193.79 Mbit/s

95th percentile per-packet one-way delay: 51.448 ms

Loss rate: 0.38%

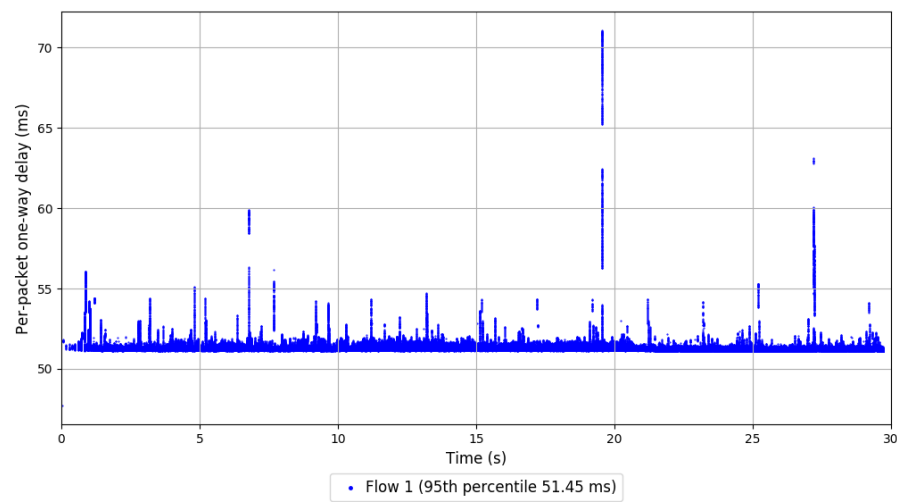
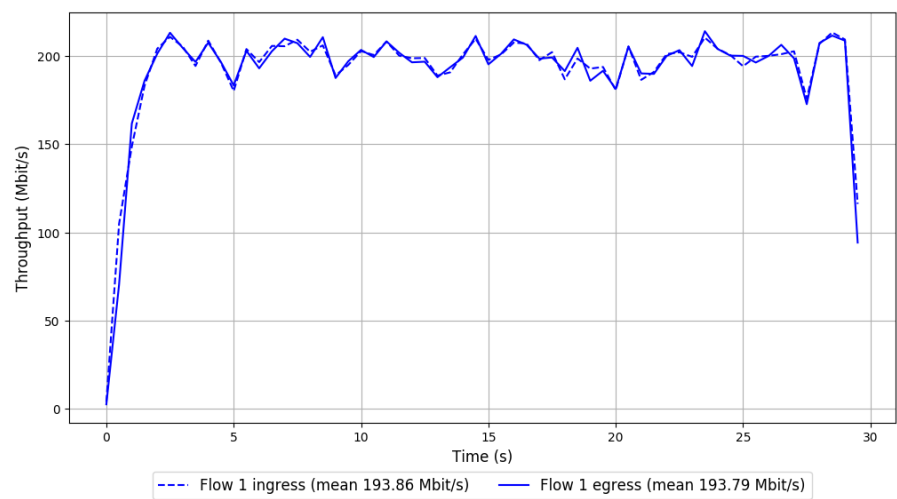
-- Flow 1:

Average throughput: 193.79 Mbit/s

95th percentile per-packet one-way delay: 51.448 ms

Loss rate: 0.38%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2018-01-09 01:49:24

End at: 2018-01-09 01:49:54

Below is generated by plot.py at 2018-01-09 05:34:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 186.46 Mbit/s

95th percentile per-packet one-way delay: 51.544 ms

Loss rate: 0.35%

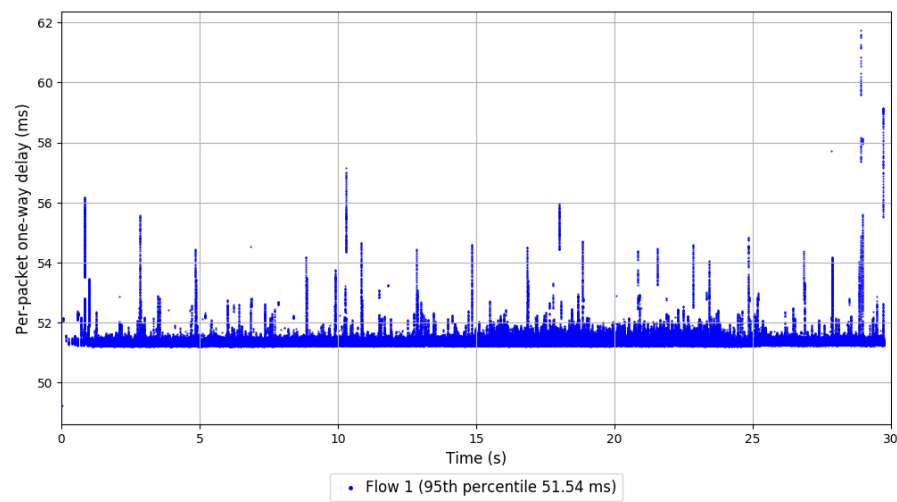
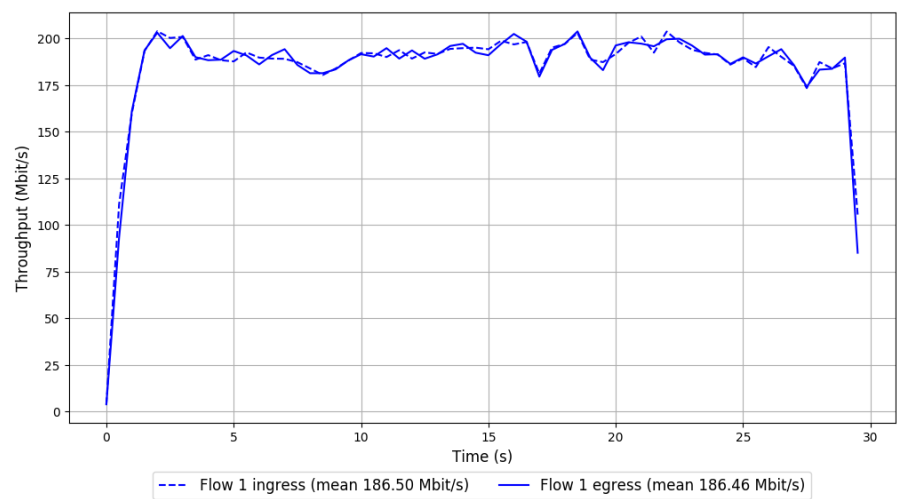
-- Flow 1:

Average throughput: 186.46 Mbit/s

95th percentile per-packet one-way delay: 51.544 ms

Loss rate: 0.35%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2018-01-09 02:01:06

End at: 2018-01-09 02:01:36

Below is generated by plot.py at 2018-01-09 05:34:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 189.14 Mbit/s

95th percentile per-packet one-way delay: 51.823 ms

Loss rate: 0.38%

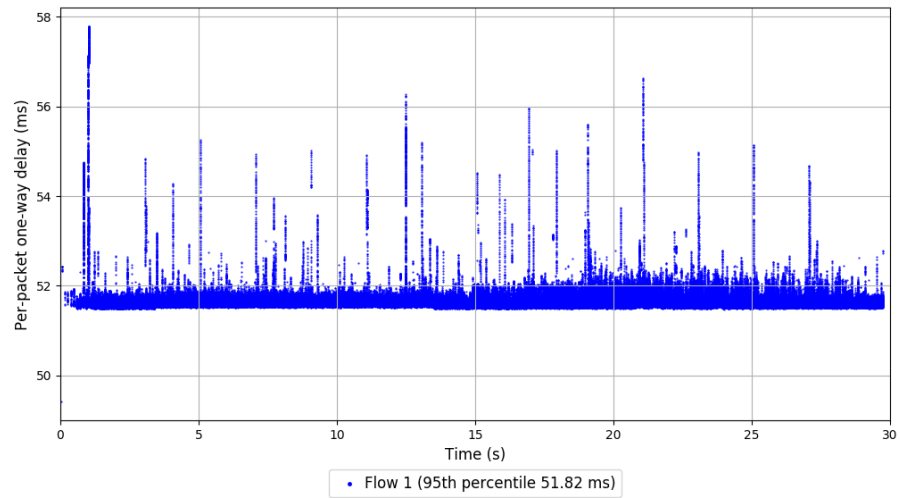
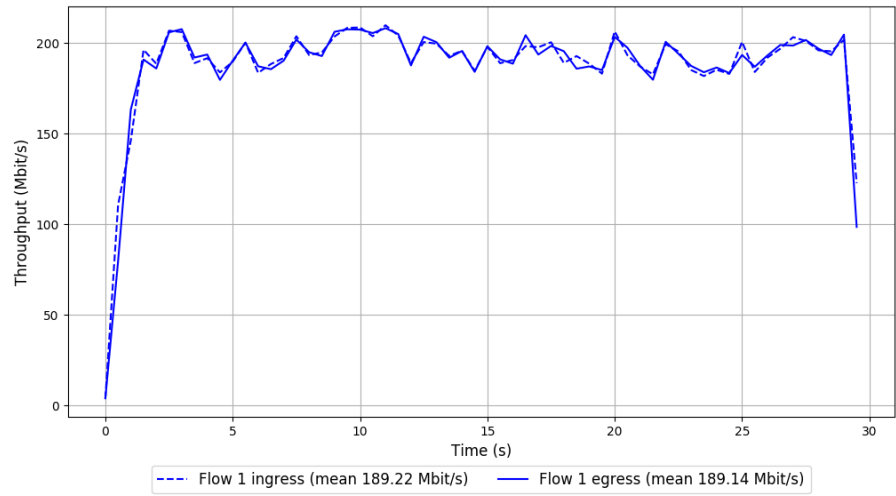
-- Flow 1:

Average throughput: 189.14 Mbit/s

95th percentile per-packet one-way delay: 51.823 ms

Loss rate: 0.38%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2018-01-09 02:11:50

End at: 2018-01-09 02:12:20

Below is generated by plot.py at 2018-01-09 05:34:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 188.93 Mbit/s

95th percentile per-packet one-way delay: 52.133 ms

Loss rate: 0.69%

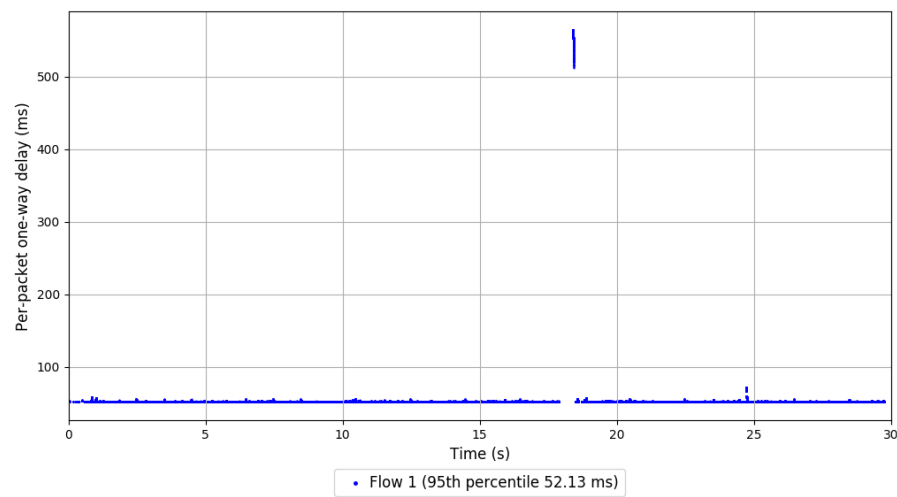
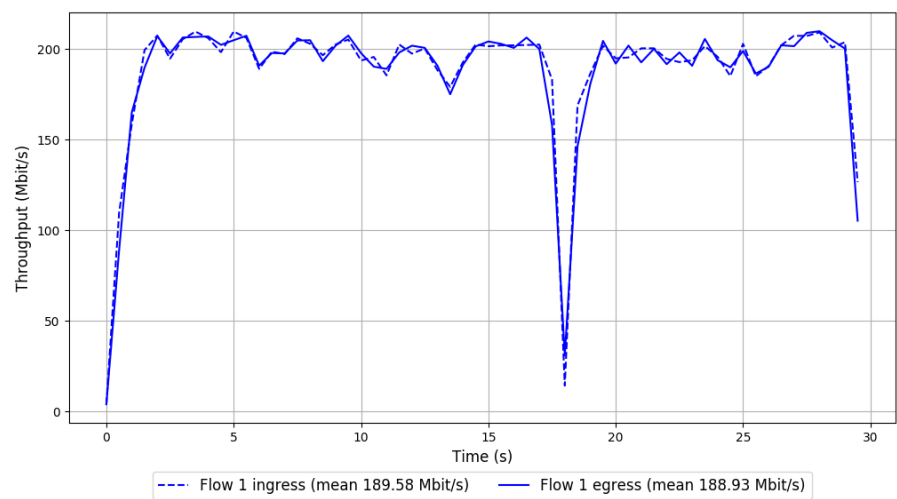
-- Flow 1:

Average throughput: 188.93 Mbit/s

95th percentile per-packet one-way delay: 52.133 ms

Loss rate: 0.69%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2018-01-09 02:23:10

End at: 2018-01-09 02:23:40

Below is generated by plot.py at 2018-01-09 05:34:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 185.03 Mbit/s

95th percentile per-packet one-way delay: 52.308 ms

Loss rate: 0.32%

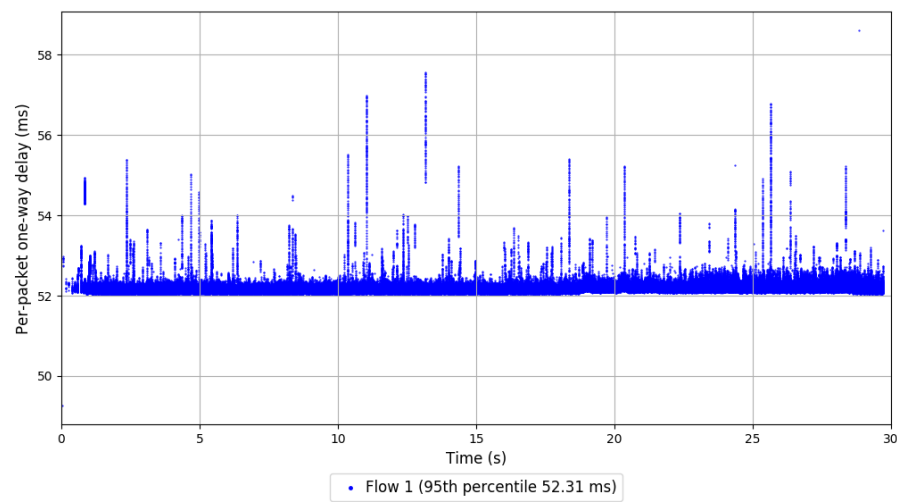
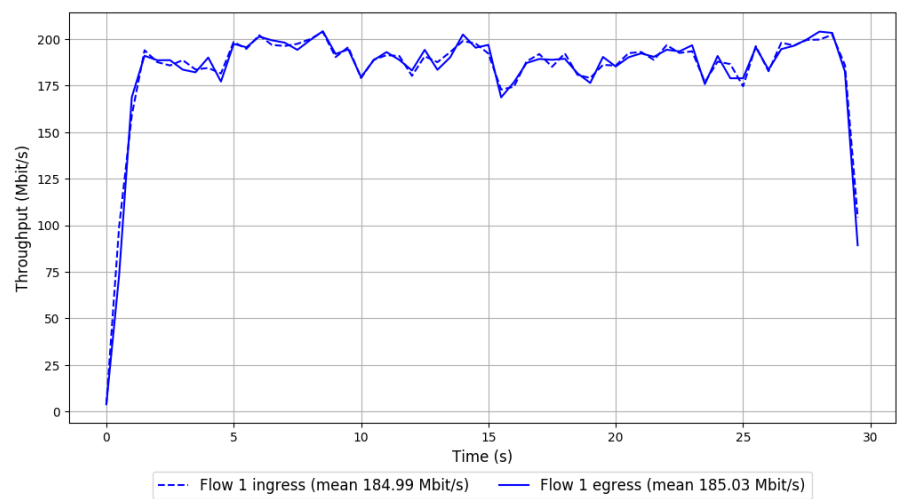
-- Flow 1:

Average throughput: 185.03 Mbit/s

95th percentile per-packet one-way delay: 52.308 ms

Loss rate: 0.32%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2018-01-09 02:34:32

End at: 2018-01-09 02:35:02

Below is generated by plot.py at 2018-01-09 05:34:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 196.75 Mbit/s

95th percentile per-packet one-way delay: 52.527 ms

Loss rate: 0.38%

-- Flow 1:

Average throughput: 196.75 Mbit/s

95th percentile per-packet one-way delay: 52.527 ms

Loss rate: 0.38%

Run 10: Report of Indigo — Data Link

