

Pantheon Report

Generated at 2017-10-11 04:16:14 (UTC).

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

Repeated the test of 14 congestion control schemes 10 times.

Each test lasted for 30 seconds running 1 flow.

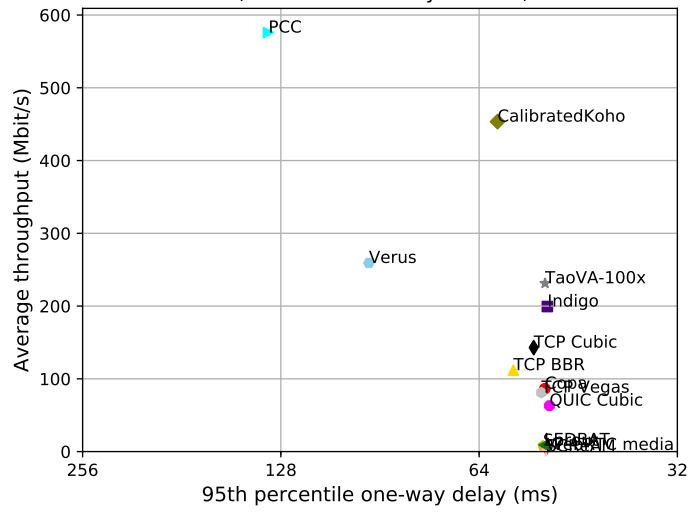
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

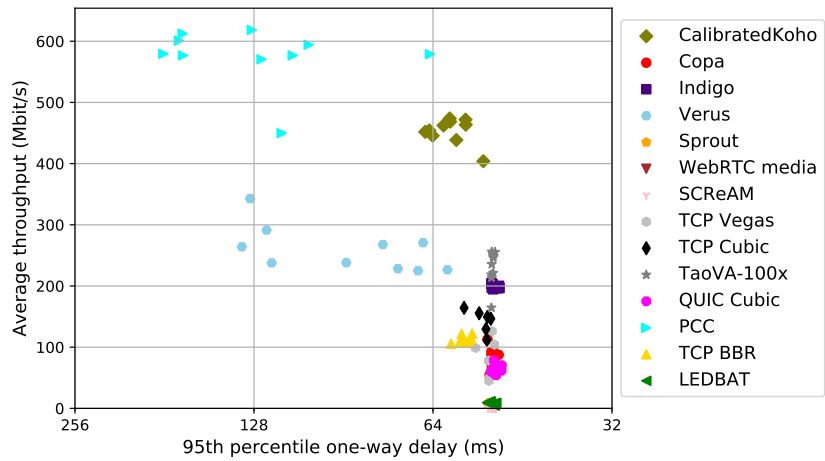
Git summary:

```
branch: indigos @ 45998d6404be7c5106956530acb9cfc43bd06e7d
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
M datagrump/sender.cc
third_party/genericCC @ f7ca42f251bf49b432bb71de6d13fa903515c366
third_party/indigo @ b19f3730105f9aa95452552af924e3719b03cc55
third_party/indigo-cellular @ aee99e8eb842cb053f8c9a80e28cd256a930bbc2
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/indigo-no-cwnd @ 3e58442c04028a11d7b02456e137604633ba2d6c
third_party/indigo-no-delivery-rate @ 57caa40858b964906edff4876d5a7e5bfff666c5
third_party/indigo-no-queuing-delay @ 03455460fd1a8ffbdad86fab936fdca204b80db
third_party/indigo-no-send-rate @ b39dfa6b2c5f19cb7cd89626cb4f5bb81f9fecda
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ baf443516dea3eeddeccaf9b916cc313273ca4f4
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 Iowa Ethernet to GCE London Ethernet, 10 runs of 30s each per scheme
(mean of all runs by scheme)



test from GCE Iowa Ethernet to GCE London 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	111.88	56.77	0.01
TCP Cubic	6	142.87	52.89	0.00
LEDBAT	10	9.04	51.00	0.03
PCC	10	575.86	133.68	0.65
QUIC Cubic	10	63.10	50.05	0.00
SCReAM	10	0.22	50.68	0.05
WebRTC media	2	2.29	50.61	0.00
Sprout	10	7.94	51.19	0.03
TaoVA-100x	10	231.31	50.83	0.00
TCP Vegas	7	81.02	51.49	0.00
Verus	10	259.25	94.09	0.06
Copa	10	86.47	50.85	0.00
CalibratedKoho	10	453.45	60.02	0.04
Indigo	10	199.36	50.42	0.00

Run 1: Statistics of TCP BBR

Start at: 2017-10-11 00:32:34

End at: 2017-10-11 00:33:04

Below is generated by plot.py at 2017-10-11 03:22:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 110.53 Mbit/s

95th percentile per-packet one-way delay: 57.531 ms

Loss rate: 0.00%

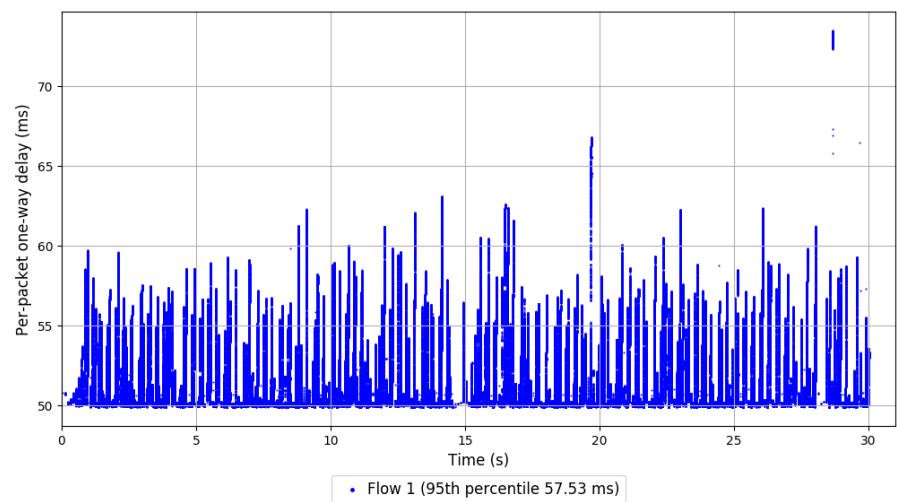
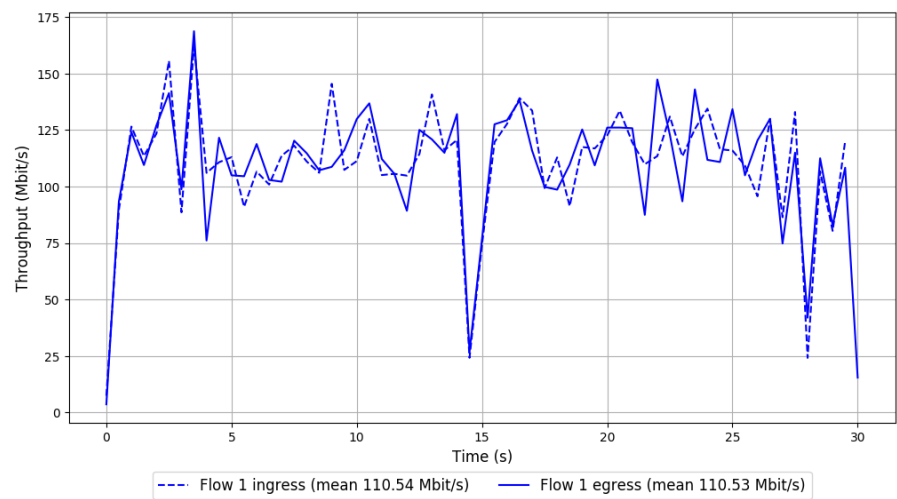
-- Flow 1:

Average throughput: 110.53 Mbit/s

95th percentile per-packet one-way delay: 57.531 ms

Loss rate: 0.00%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2017-10-11 00:43:29

End at: 2017-10-11 00:43:59

Below is generated by plot.py at 2017-10-11 03:22:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 108.91 Mbit/s

95th percentile per-packet one-way delay: 56.917 ms

Loss rate: 0.00%

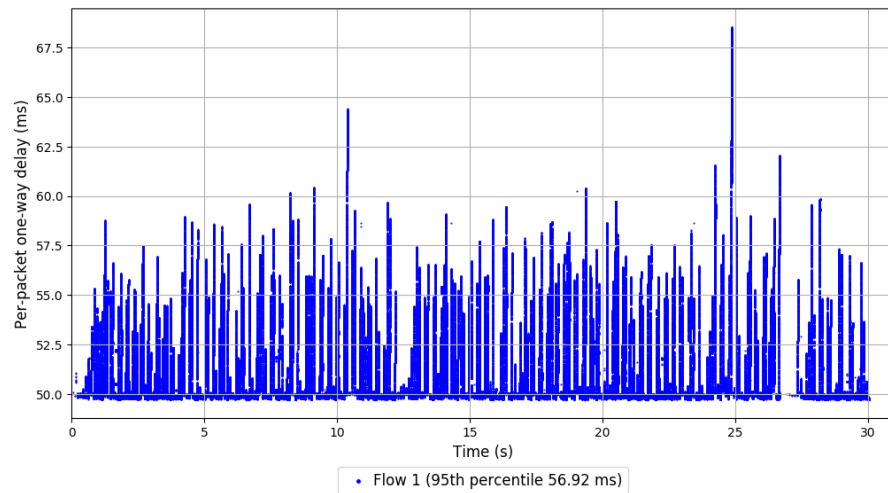
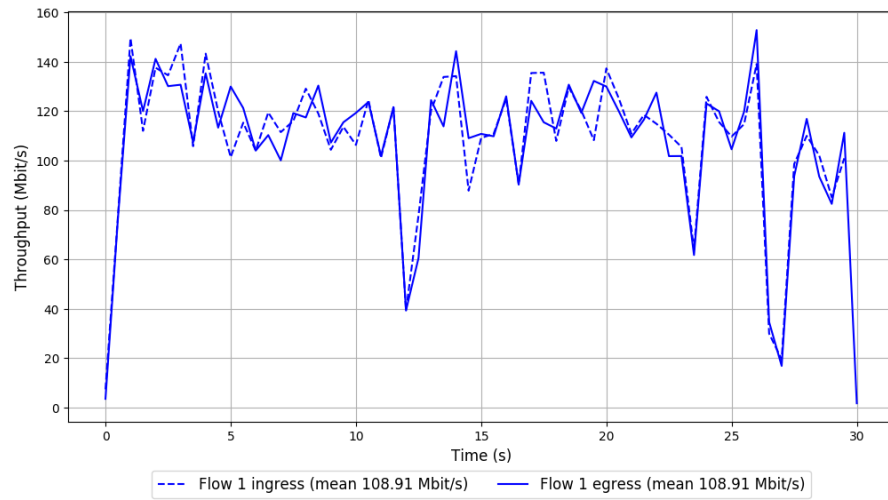
-- Flow 1:

Average throughput: 108.91 Mbit/s

95th percentile per-packet one-way delay: 56.917 ms

Loss rate: 0.00%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2017-10-11 00:54:14

End at: 2017-10-11 00:54:44

Below is generated by plot.py at 2017-10-11 03:22:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 109.37 Mbit/s

95th percentile per-packet one-way delay: 55.755 ms

Loss rate: 0.00%

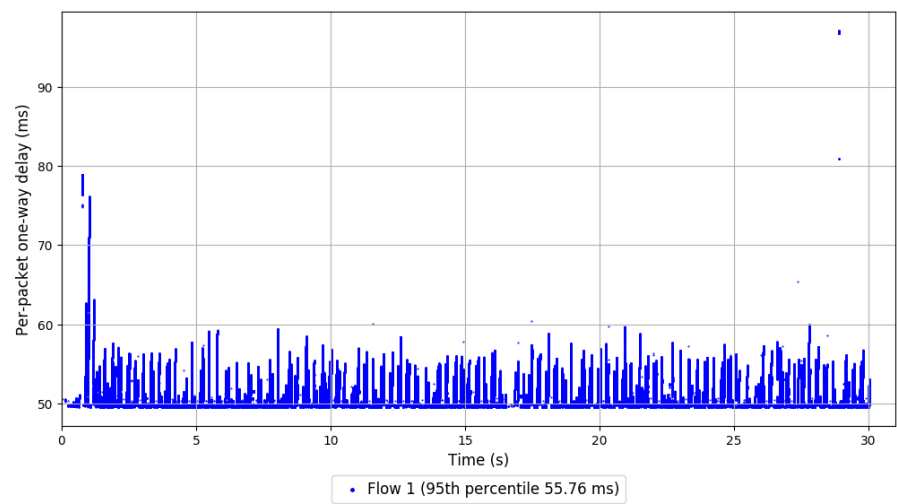
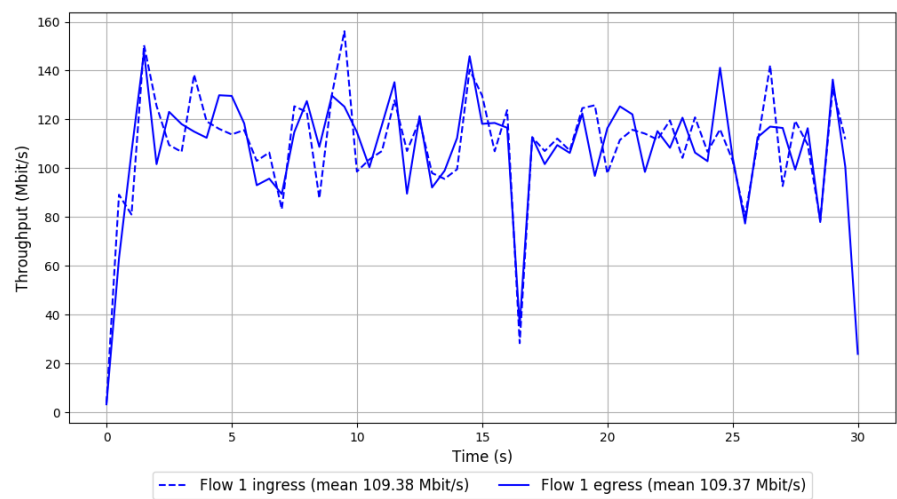
-- Flow 1:

Average throughput: 109.37 Mbit/s

95th percentile per-packet one-way delay: 55.755 ms

Loss rate: 0.00%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2017-10-11 01:05:02

End at: 2017-10-11 01:05:32

Below is generated by plot.py at 2017-10-11 03:22:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 113.33 Mbit/s

95th percentile per-packet one-way delay: 55.231 ms

Loss rate: 0.00%

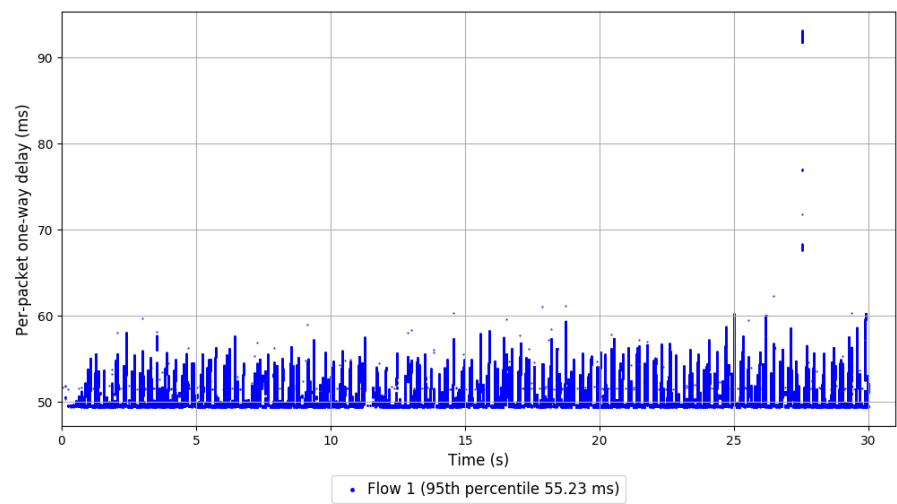
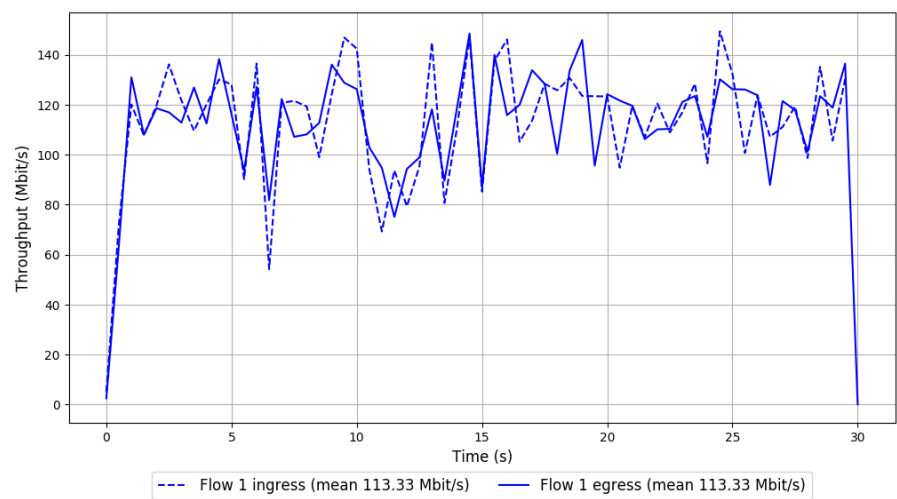
-- Flow 1:

Average throughput: 113.33 Mbit/s

95th percentile per-packet one-way delay: 55.231 ms

Loss rate: 0.00%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2017-10-11 01:15:44

End at: 2017-10-11 01:16:14

Below is generated by plot.py at 2017-10-11 03:22:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 122.21 Mbit/s

95th percentile per-packet one-way delay: 54.986 ms

Loss rate: 0.00%

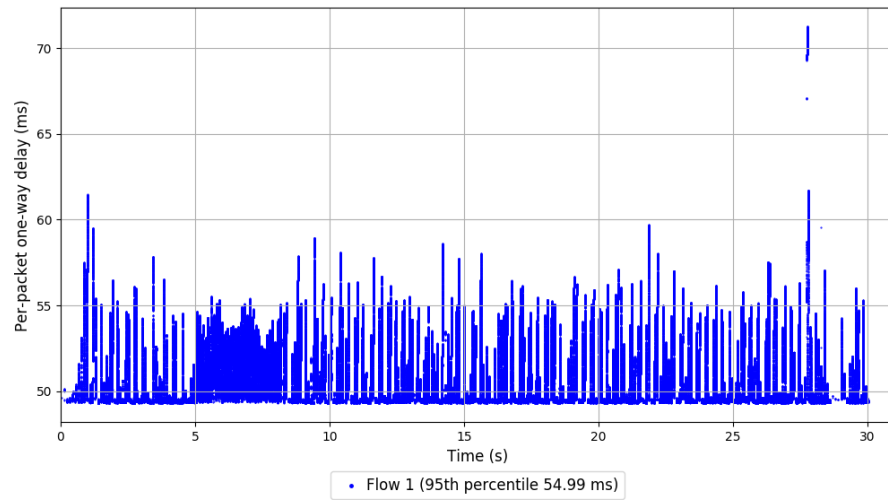
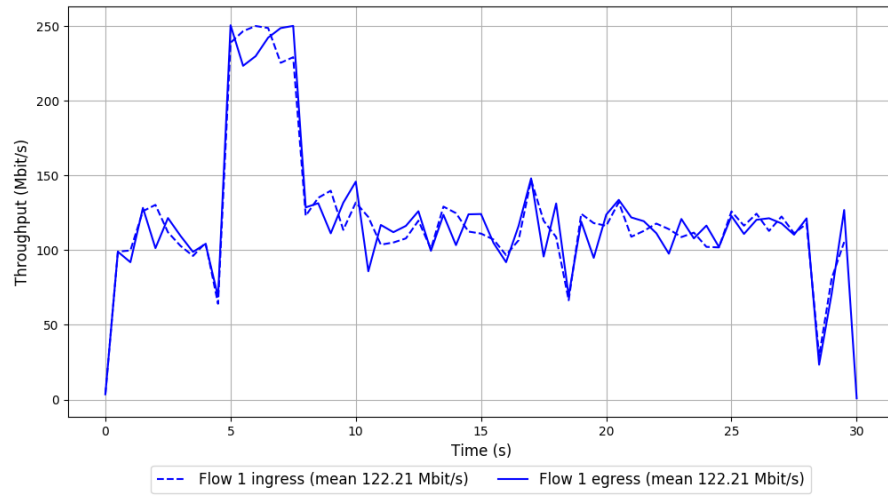
-- Flow 1:

Average throughput: 122.21 Mbit/s

95th percentile per-packet one-way delay: 54.986 ms

Loss rate: 0.00%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2017-10-11 01:26:32

End at: 2017-10-11 01:27:02

Below is generated by plot.py at 2017-10-11 03:22:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 107.54 Mbit/s

95th percentile per-packet one-way delay: 55.930 ms

Loss rate: 0.00%

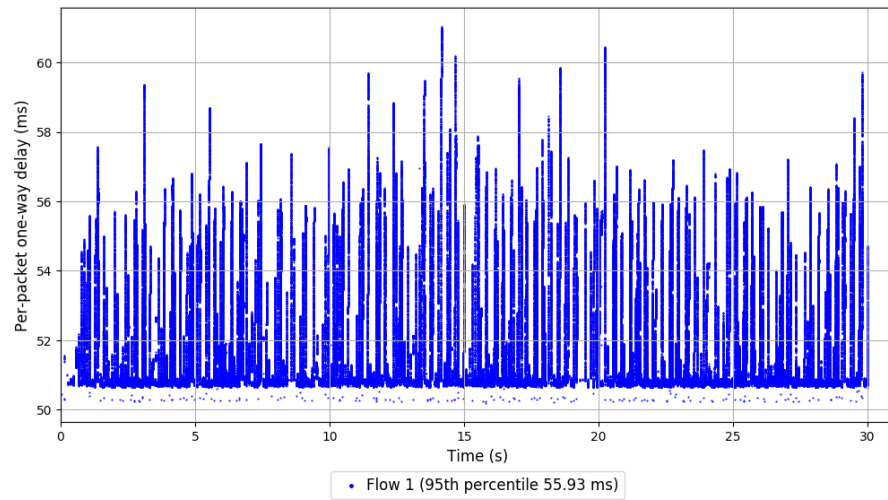
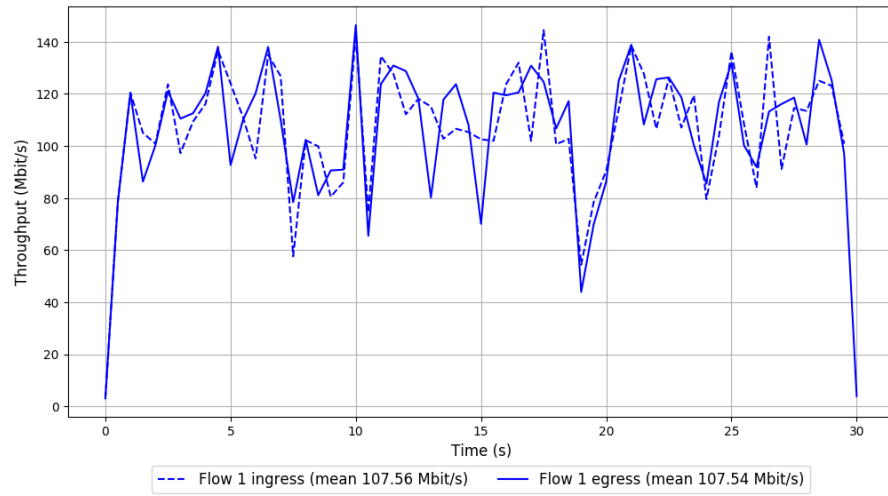
-- Flow 1:

Average throughput: 107.54 Mbit/s

95th percentile per-packet one-way delay: 55.930 ms

Loss rate: 0.00%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2017-10-11 01:37:15

End at: 2017-10-11 01:37:45

Below is generated by plot.py at 2017-10-11 03:22:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 107.87 Mbit/s

95th percentile per-packet one-way delay: 57.549 ms

Loss rate: 0.01%

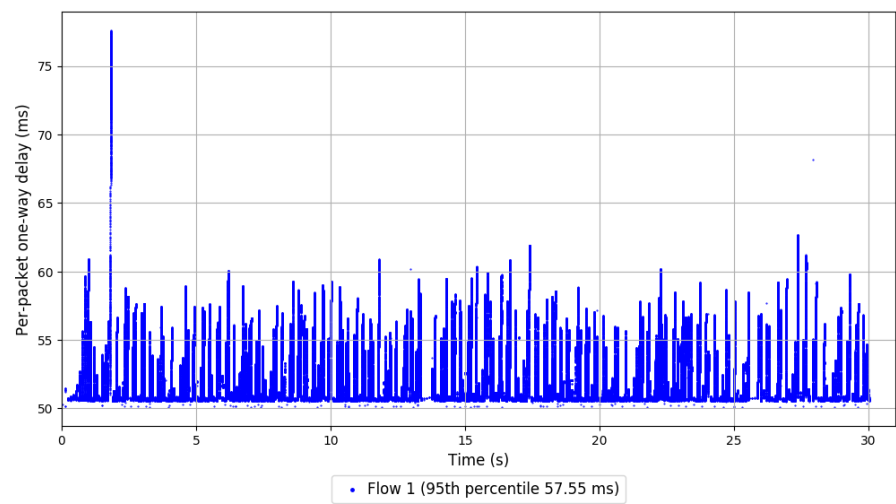
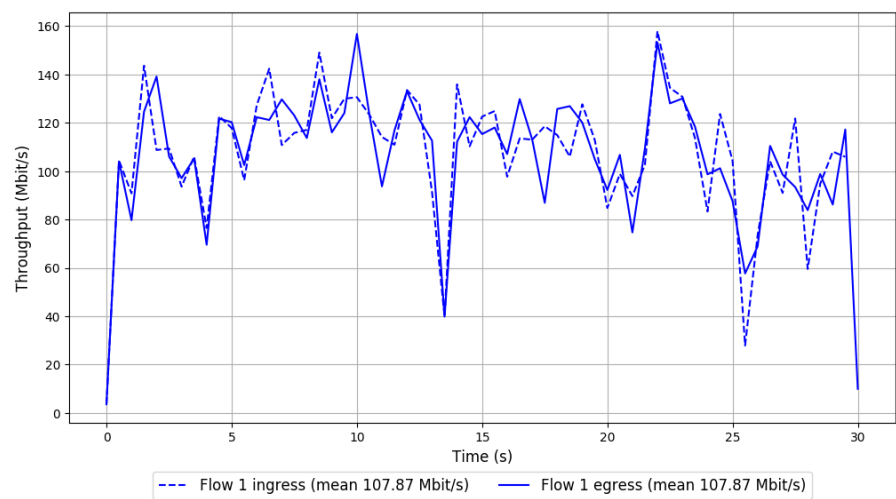
-- Flow 1:

Average throughput: 107.87 Mbit/s

95th percentile per-packet one-way delay: 57.549 ms

Loss rate: 0.01%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2017-10-11 01:47:55

End at: 2017-10-11 01:48:25

Below is generated by plot.py at 2017-10-11 03:22:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 111.65 Mbit/s

95th percentile per-packet one-way delay: 56.852 ms

Loss rate: 0.00%

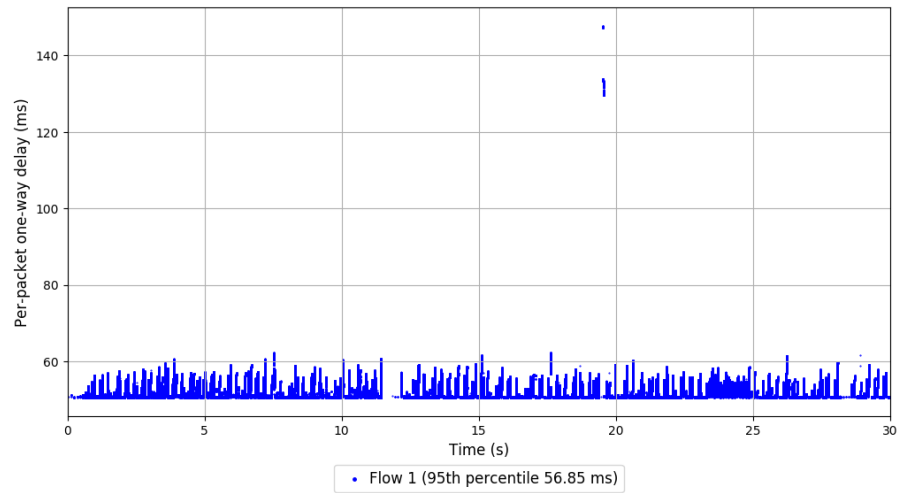
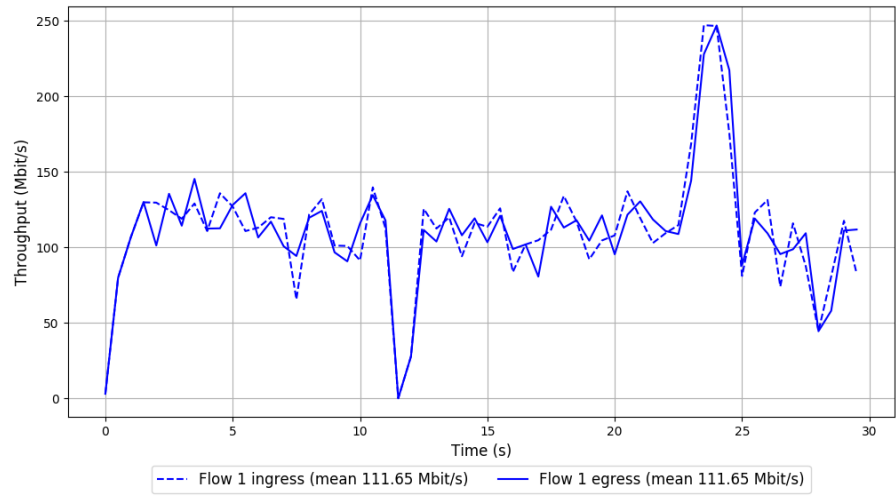
-- Flow 1:

Average throughput: 111.65 Mbit/s

95th percentile per-packet one-way delay: 56.852 ms

Loss rate: 0.00%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2017-10-11 01:58:46

End at: 2017-10-11 01:59:16

Below is generated by plot.py at 2017-10-11 03:24:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 105.72 Mbit/s

95th percentile per-packet one-way delay: 59.664 ms

Loss rate: 0.07%

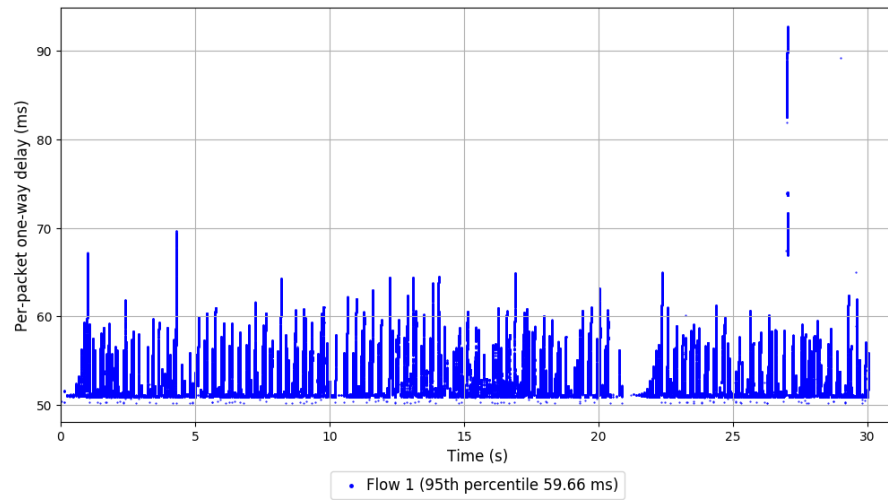
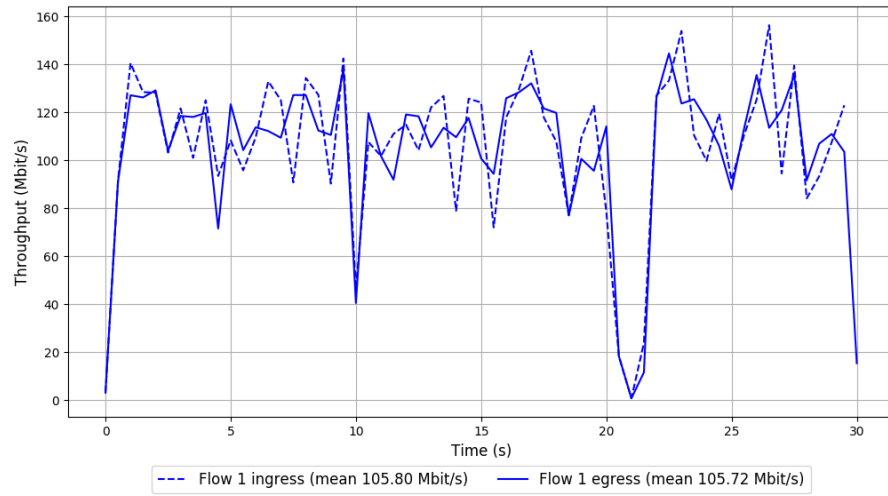
-- Flow 1:

Average throughput: 105.72 Mbit/s

95th percentile per-packet one-way delay: 59.664 ms

Loss rate: 0.07%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2017-10-11 02:09:18

End at: 2017-10-11 02:09:48

Below is generated by plot.py at 2017-10-11 03:24:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 121.65 Mbit/s

95th percentile per-packet one-way delay: 57.285 ms

Loss rate: 0.00%

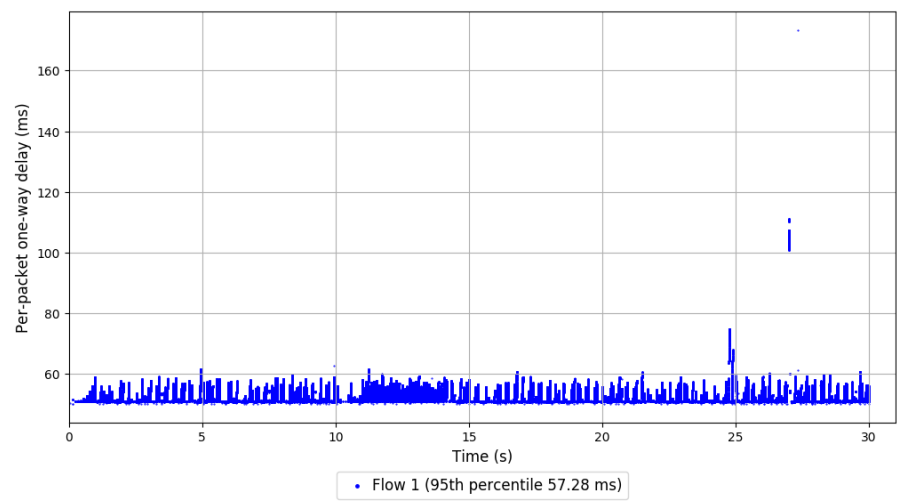
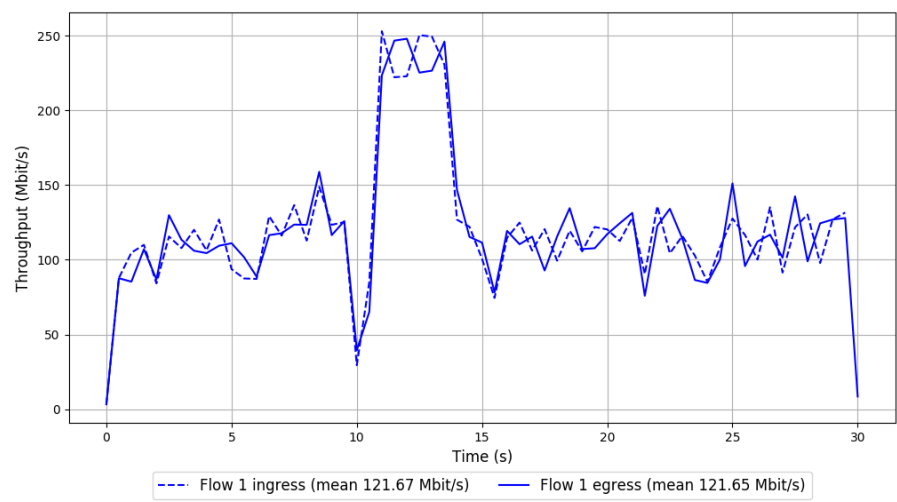
-- Flow 1:

Average throughput: 121.65 Mbit/s

95th percentile per-packet one-way delay: 57.285 ms

Loss rate: 0.00%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2017-10-11 00:39:19

End at: 2017-10-11 00:39:49

Below is generated by plot.py at 2017-10-11 03:25:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 149.52 Mbit/s

95th percentile per-packet one-way delay: 51.830 ms

Loss rate: 0.00%

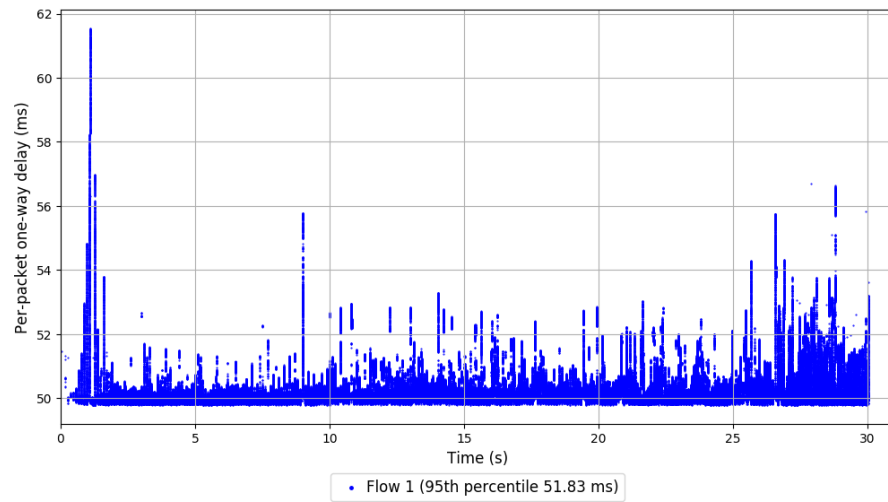
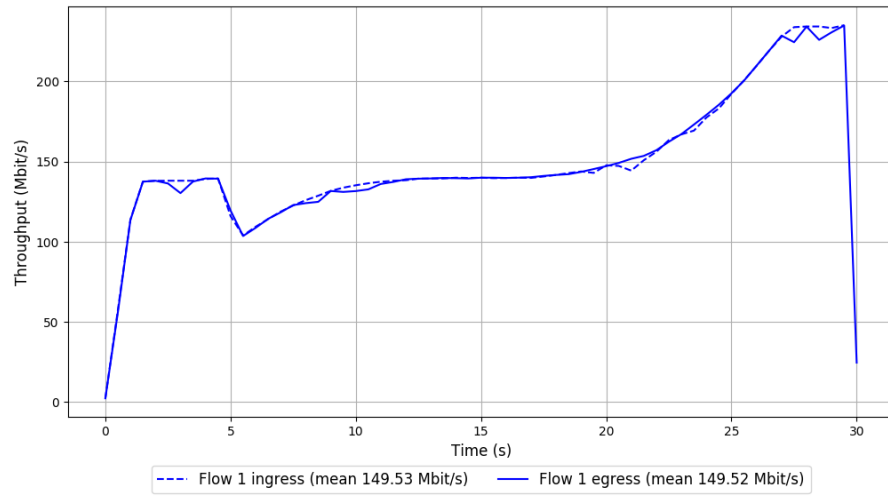
-- Flow 1:

Average throughput: 149.52 Mbit/s

95th percentile per-packet one-way delay: 51.830 ms

Loss rate: 0.00%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2017-10-11 00:50:06

End at: 2017-10-11 00:50:36

Below is generated by plot.py at 2017-10-11 03:25:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 146.49 Mbit/s

95th percentile per-packet one-way delay: 51.160 ms

Loss rate: 0.00%

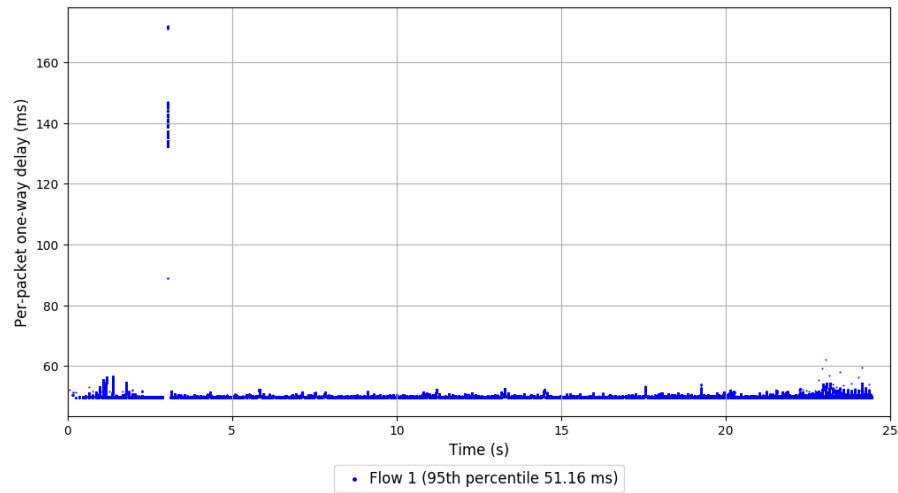
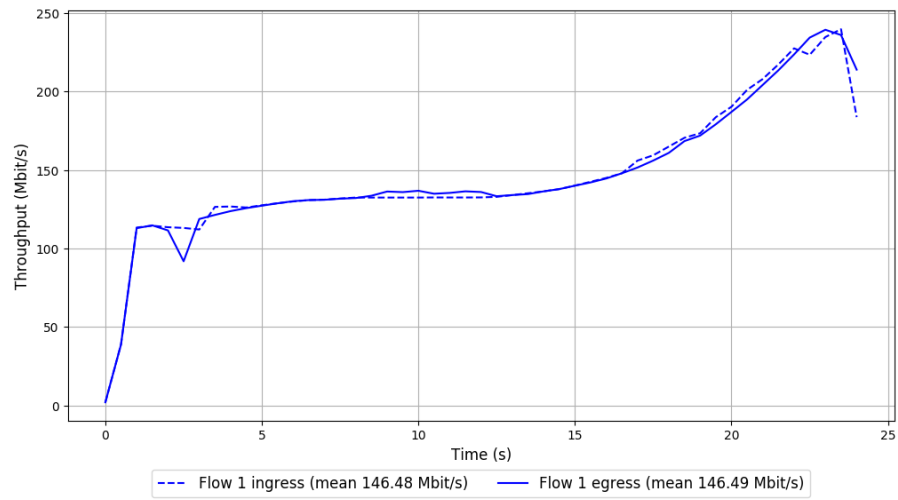
-- Flow 1:

Average throughput: 146.49 Mbit/s

95th percentile per-packet one-way delay: 51.160 ms

Loss rate: 0.00%

Run 2: Report of TCP Cubic — Data Link

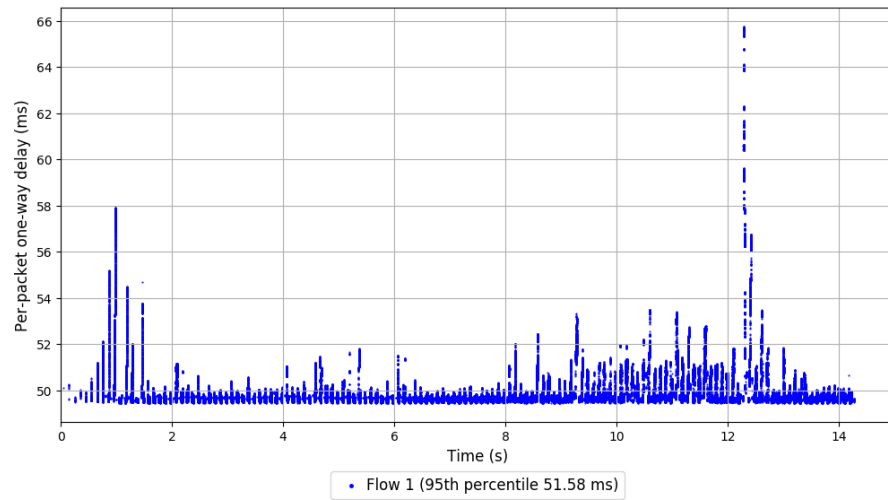
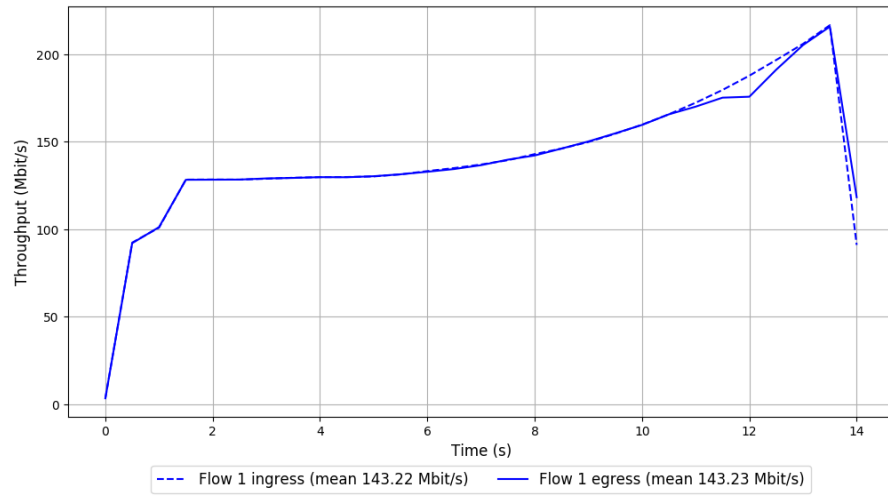


Run 3: Statistics of TCP Cubic

Start at: 2017-10-11 01:00:55

End at: 2017-10-11 01:01:25

Run 3: Report of TCP Cubic — Data Link

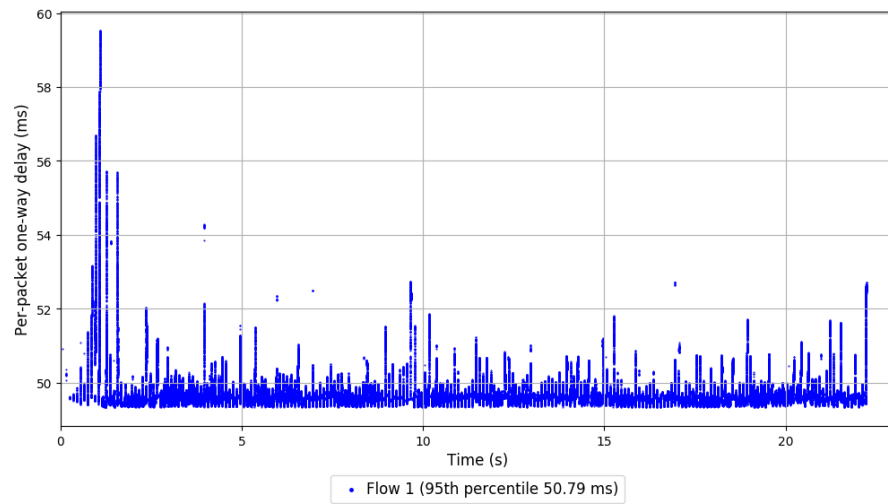
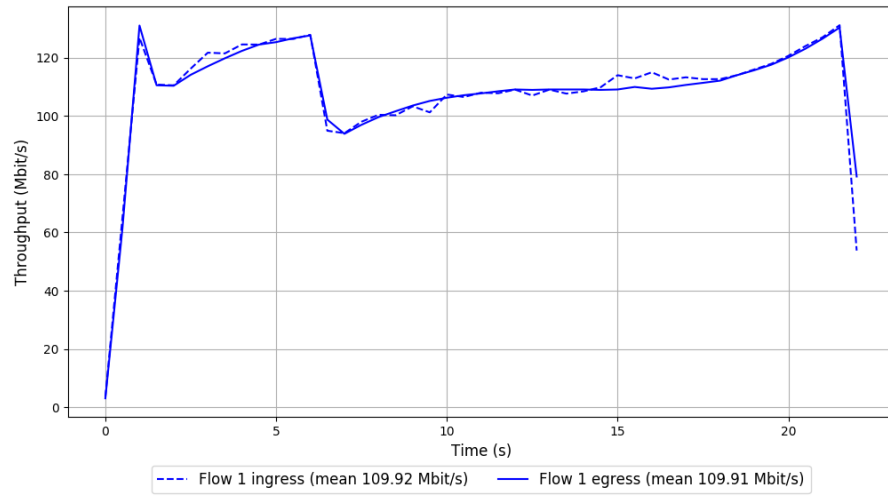


Run 4: Statistics of TCP Cubic

Start at: 2017-10-11 01:11:40

End at: 2017-10-11 01:12:10

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2017-10-11 01:22:22

End at: 2017-10-11 01:22:52

Below is generated by plot.py at 2017-10-11 03:25:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 129.59 Mbit/s

95th percentile per-packet one-way delay: 52.136 ms

Loss rate: 0.00%

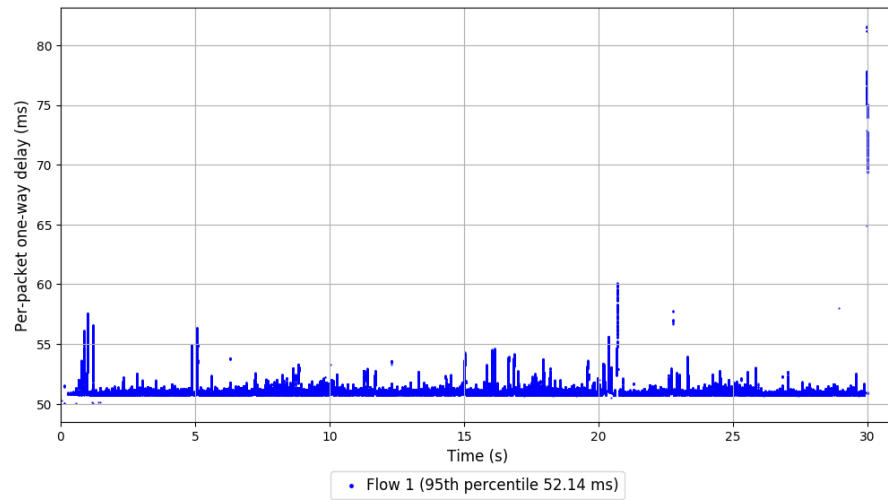
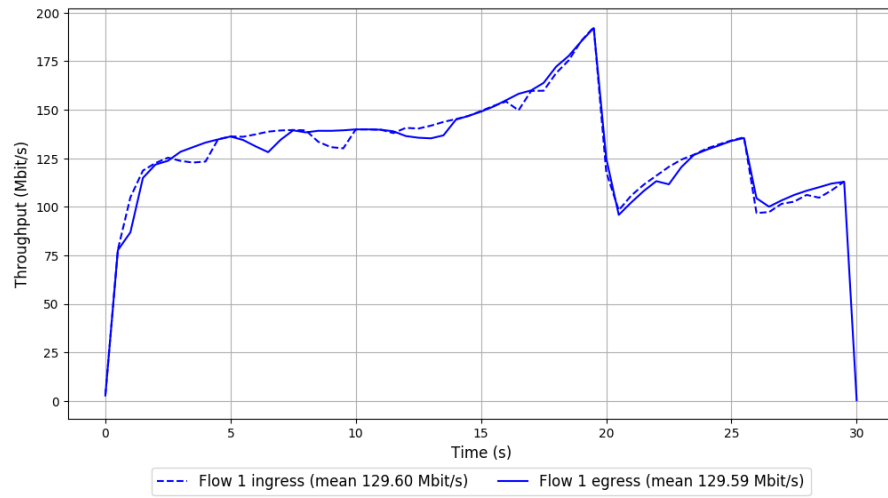
-- Flow 1:

Average throughput: 129.59 Mbit/s

95th percentile per-packet one-way delay: 52.136 ms

Loss rate: 0.00%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2017-10-11 01:33:07

End at: 2017-10-11 01:33:37

Below is generated by plot.py at 2017-10-11 03:25:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 111.93 Mbit/s

95th percentile per-packet one-way delay: 51.934 ms

Loss rate: 0.00%

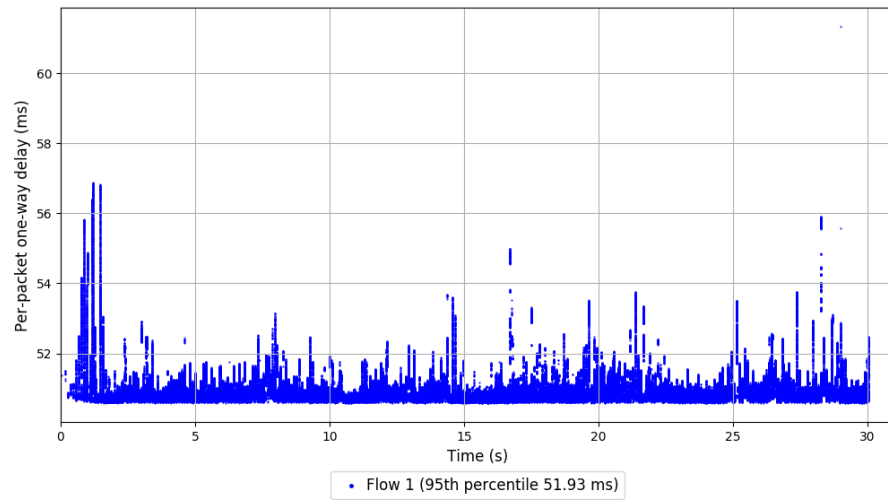
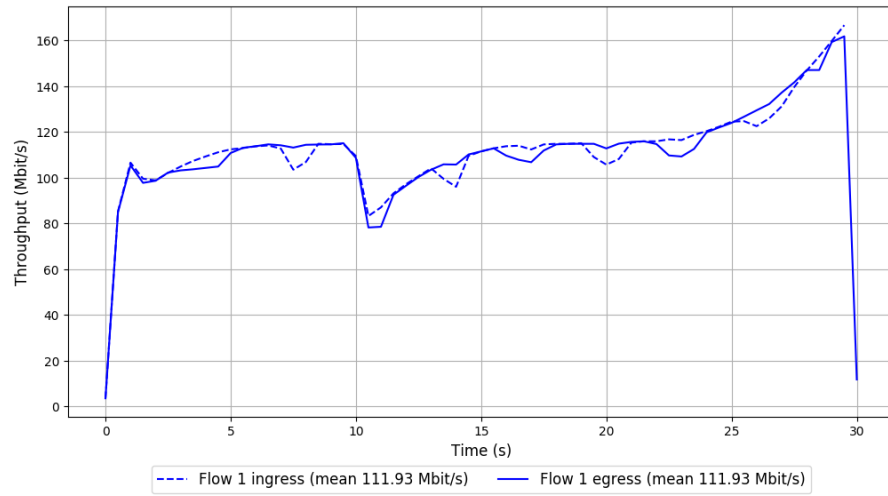
-- Flow 1:

Average throughput: 111.93 Mbit/s

95th percentile per-packet one-way delay: 51.934 ms

Loss rate: 0.00%

Run 6: Report of TCP Cubic — Data Link

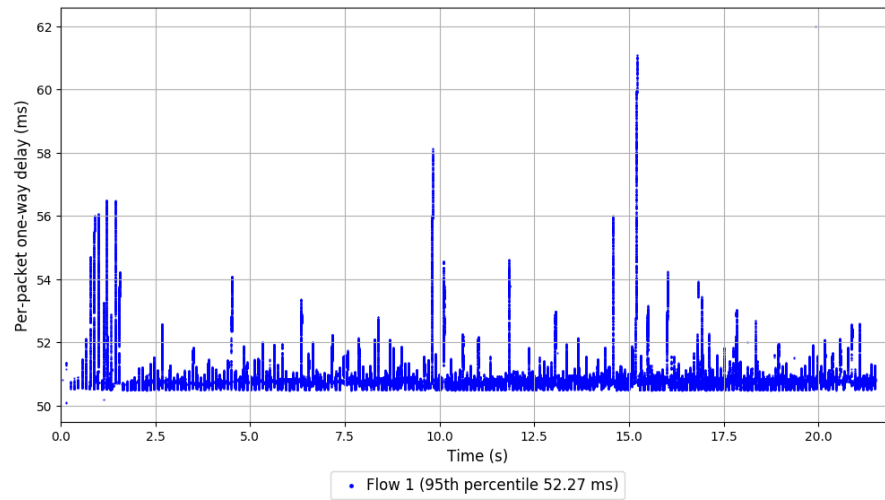
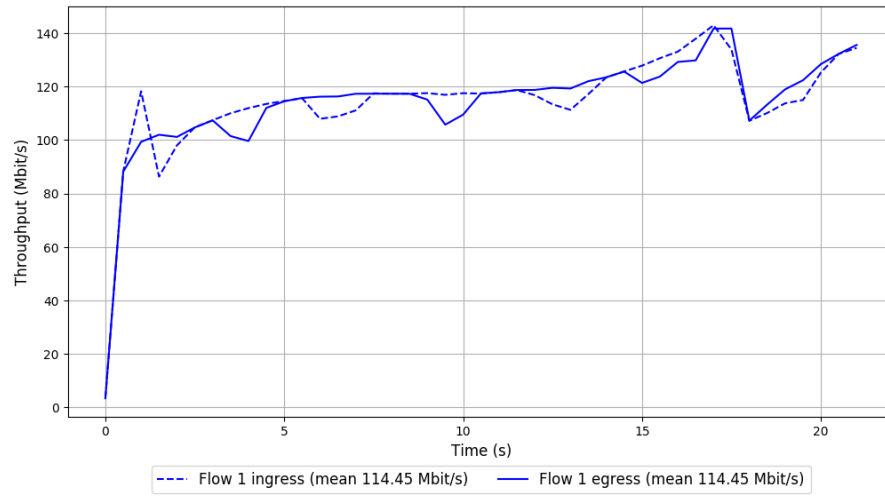


Run 7: Statistics of TCP Cubic

Start at: 2017-10-11 01:43:48

End at: 2017-10-11 01:44:18

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2017-10-11 01:54:35

End at: 2017-10-11 01:55:05

Below is generated by plot.py at 2017-10-11 03:26:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 155.44 Mbit/s

95th percentile per-packet one-way delay: 53.519 ms

Loss rate: 0.00%

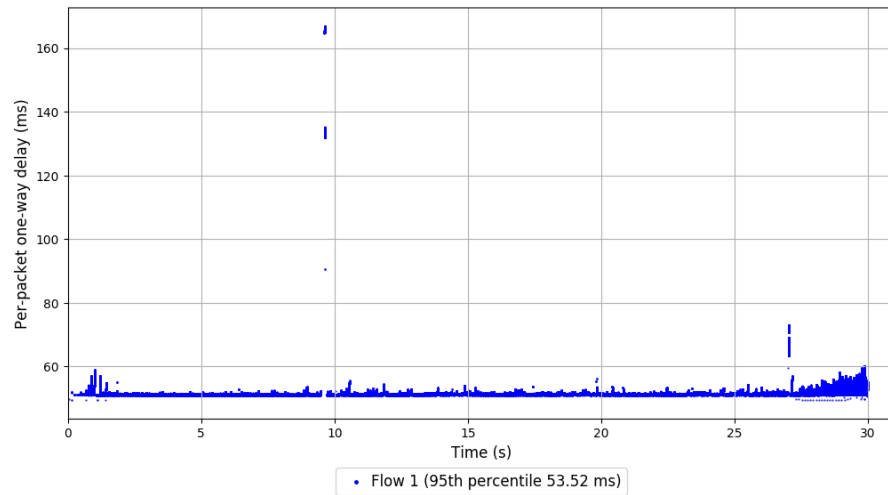
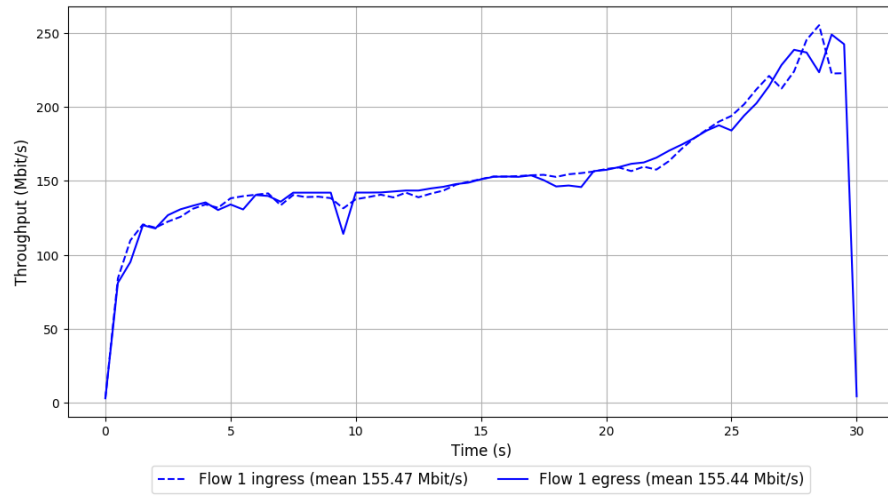
-- Flow 1:

Average throughput: 155.44 Mbit/s

95th percentile per-packet one-way delay: 53.519 ms

Loss rate: 0.00%

Run 8: Report of TCP Cubic — Data Link

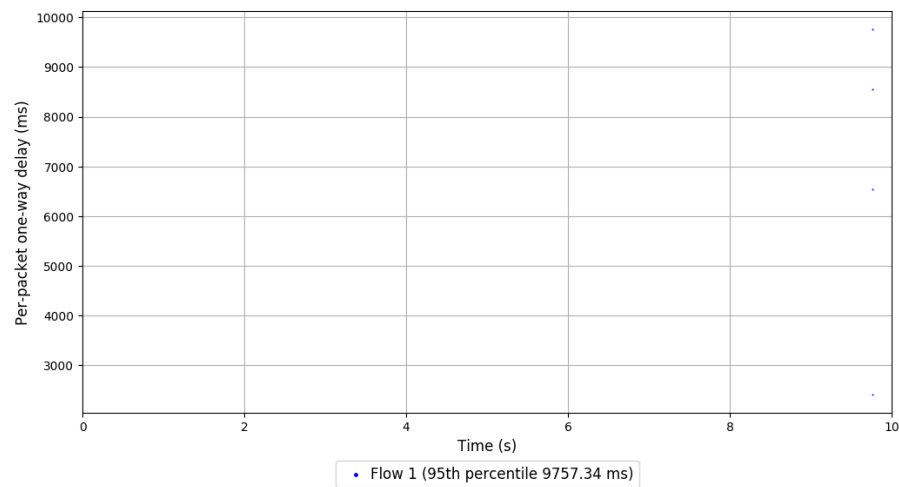
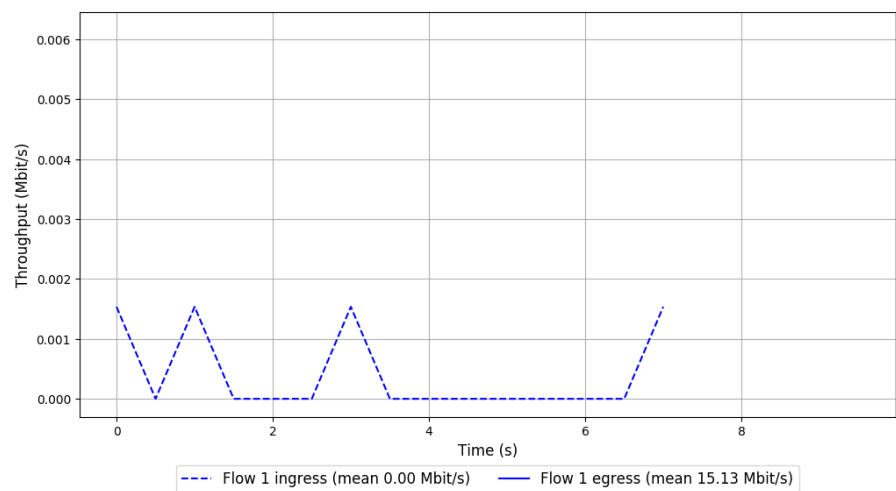


Run 9: Statistics of TCP Cubic

Start at: 2017-10-11 02:05:16

End at: 2017-10-11 02:05:46

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2017-10-11 02:15:57

End at: 2017-10-11 02:16:27

Below is generated by plot.py at 2017-10-11 03:27:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 164.27 Mbit/s

95th percentile per-packet one-way delay: 56.741 ms

Loss rate: 0.00%

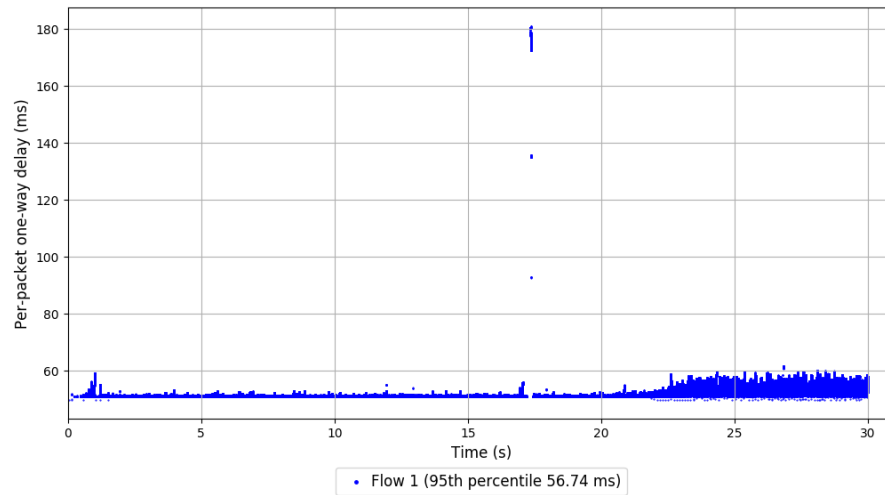
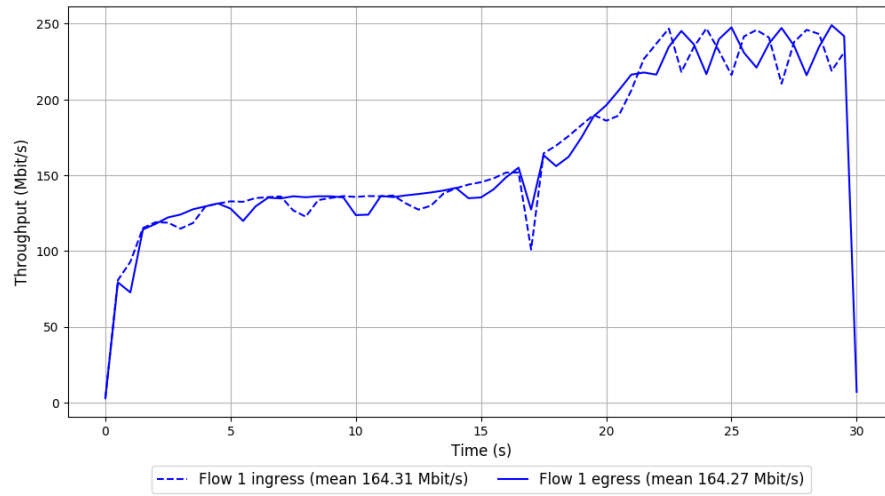
-- Flow 1:

Average throughput: 164.27 Mbit/s

95th percentile per-packet one-way delay: 56.741 ms

Loss rate: 0.00%

Run 10: Report of TCP Cubic — Data Link

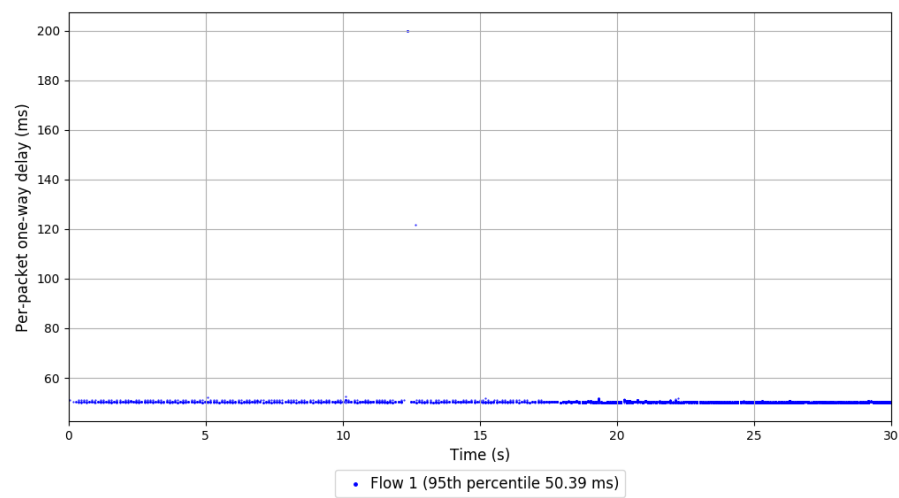
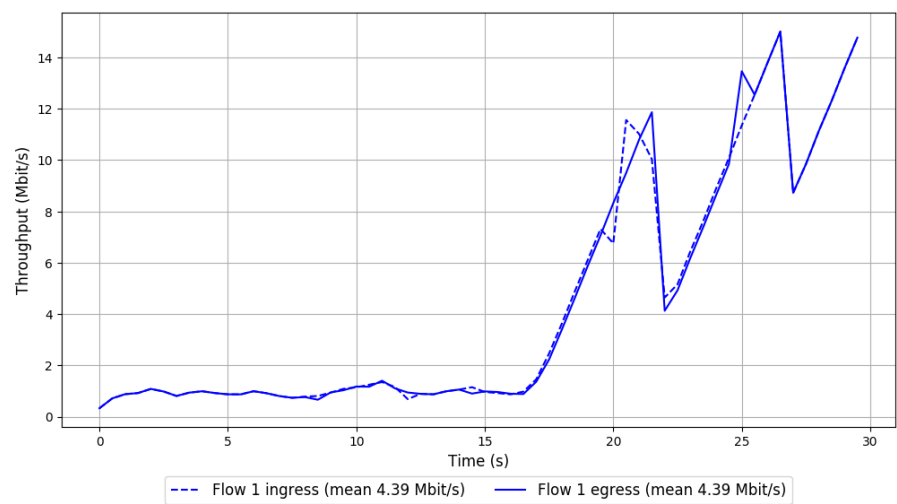


```
Run 1: Statistics of LEDBAT

Start at: 2017-10-11 00:37:32
End at: 2017-10-11 00:38:02

# Below is generated by plot.py at 2017-10-11 03:27:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 4.39 Mbit/s
95th percentile per-packet one-way delay: 50.392 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 4.39 Mbit/s
95th percentile per-packet one-way delay: 50.392 ms
Loss rate: 0.04%
```


Run 1: Report of LEDBAT — Data Link

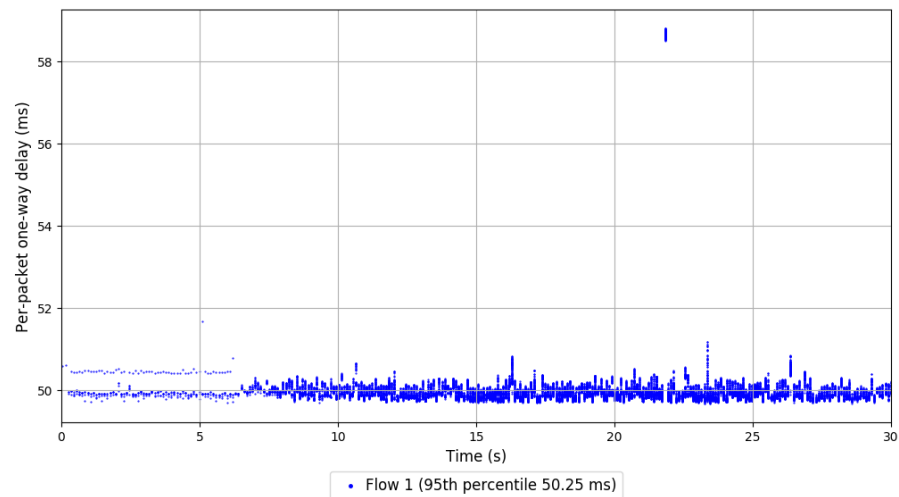
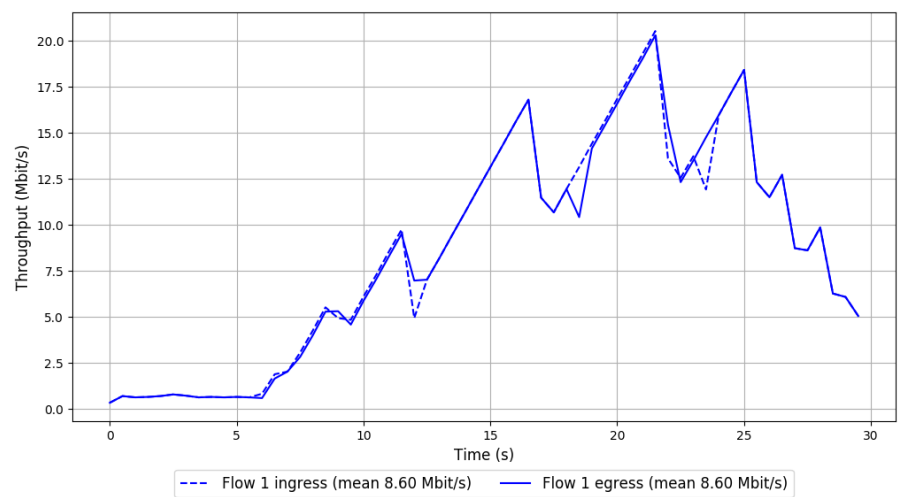


```
Run 2: Statistics of LEDBAT

Start at: 2017-10-11 00:48:23
End at: 2017-10-11 00:48:53

# Below is generated by plot.py at 2017-10-11 03:27:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 8.60 Mbit/s
95th percentile per-packet one-way delay: 50.251 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 8.60 Mbit/s
95th percentile per-packet one-way delay: 50.251 ms
Loss rate: 0.00%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2017-10-11 00:59:10

End at: 2017-10-11 00:59:40

Below is generated by plot.py at 2017-10-11 03:27:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 8.49 Mbit/s

95th percentile per-packet one-way delay: 50.350 ms

Loss rate: 0.01%

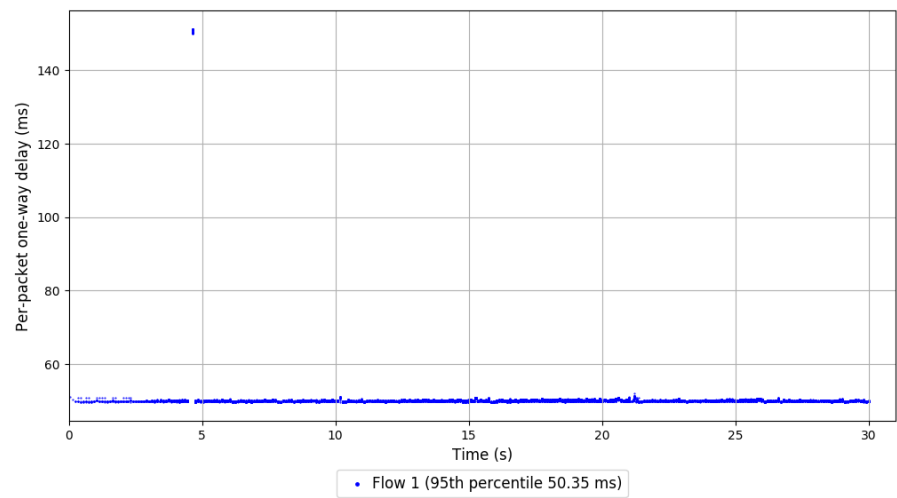
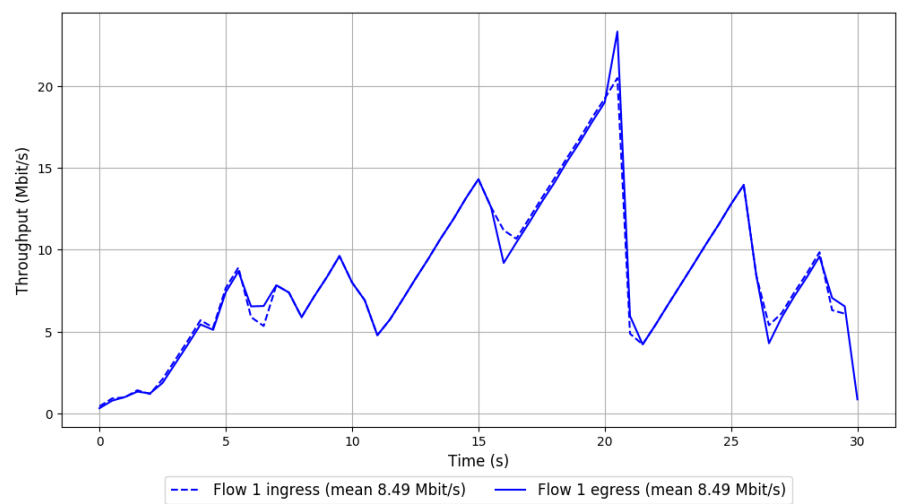
-- Flow 1:

Average throughput: 8.49 Mbit/s

95th percentile per-packet one-way delay: 50.350 ms

Loss rate: 0.01%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2017-10-11 01:09:56

End at: 2017-10-11 01:10:26

Below is generated by plot.py at 2017-10-11 03:27:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 8.97 Mbit/s

95th percentile per-packet one-way delay: 50.073 ms

Loss rate: 0.04%

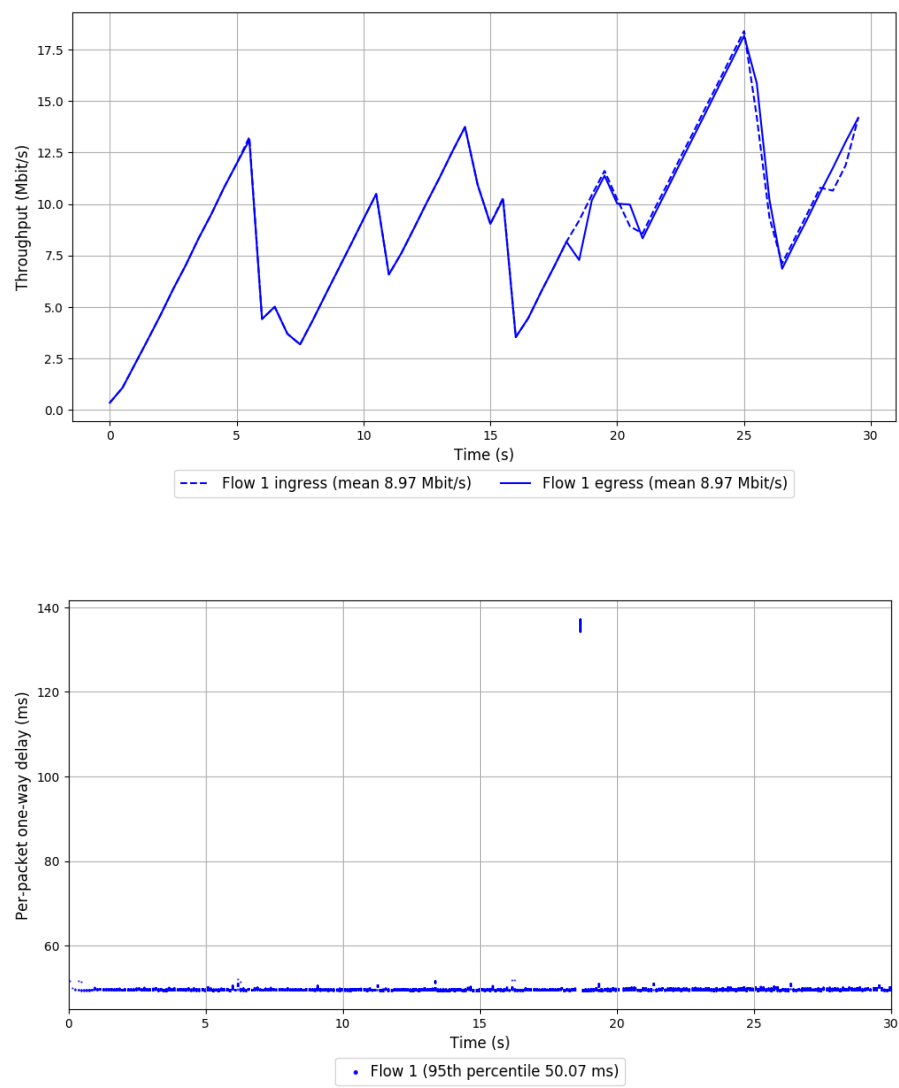
-- Flow 1:

Average throughput: 8.97 Mbit/s

95th percentile per-packet one-way delay: 50.073 ms

Loss rate: 0.04%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2017-10-11 01:20:37

End at: 2017-10-11 01:21:07

Below is generated by plot.py at 2017-10-11 03:27:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.71 Mbit/s

95th percentile per-packet one-way delay: 51.243 ms

Loss rate: 0.00%

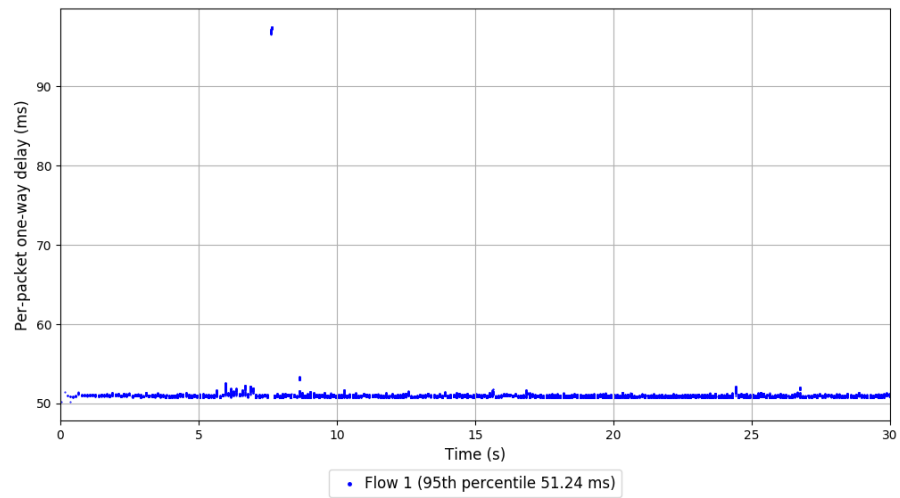
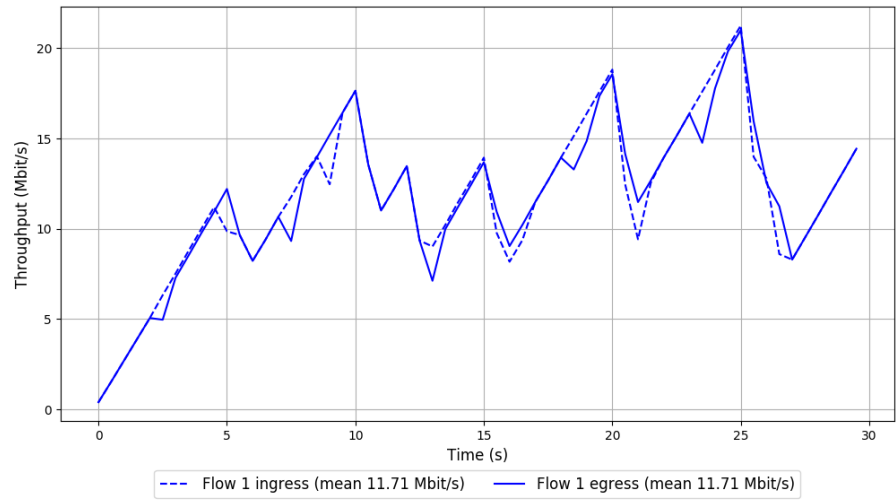
-- Flow 1:

Average throughput: 11.71 Mbit/s

95th percentile per-packet one-way delay: 51.243 ms

Loss rate: 0.00%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2017-10-11 01:31:25

End at: 2017-10-11 01:31:55

Below is generated by plot.py at 2017-10-11 03:27:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 9.43 Mbit/s

95th percentile per-packet one-way delay: 51.133 ms

Loss rate: 0.05%

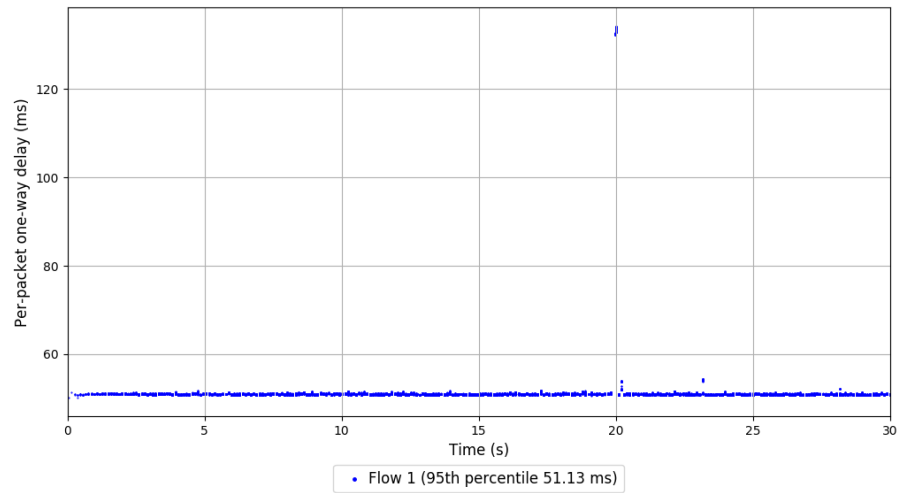
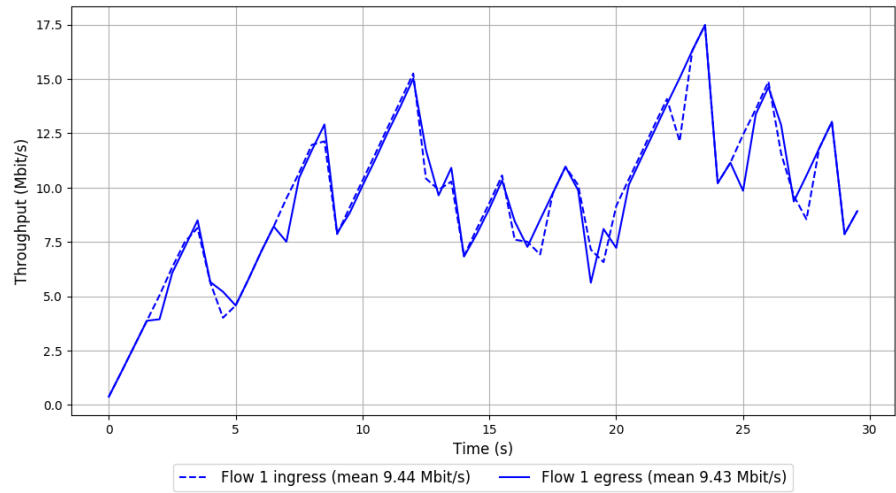
-- Flow 1:

Average throughput: 9.43 Mbit/s

95th percentile per-packet one-way delay: 51.133 ms

Loss rate: 0.05%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2017-10-11 01:42:05

End at: 2017-10-11 01:42:35

Below is generated by plot.py at 2017-10-11 03:27:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 10.31 Mbit/s

95th percentile per-packet one-way delay: 51.443 ms

Loss rate: 0.04%

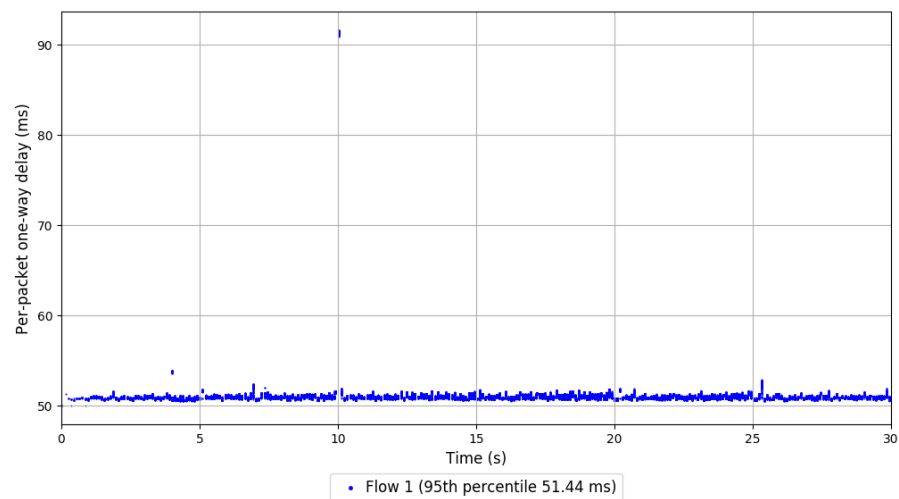
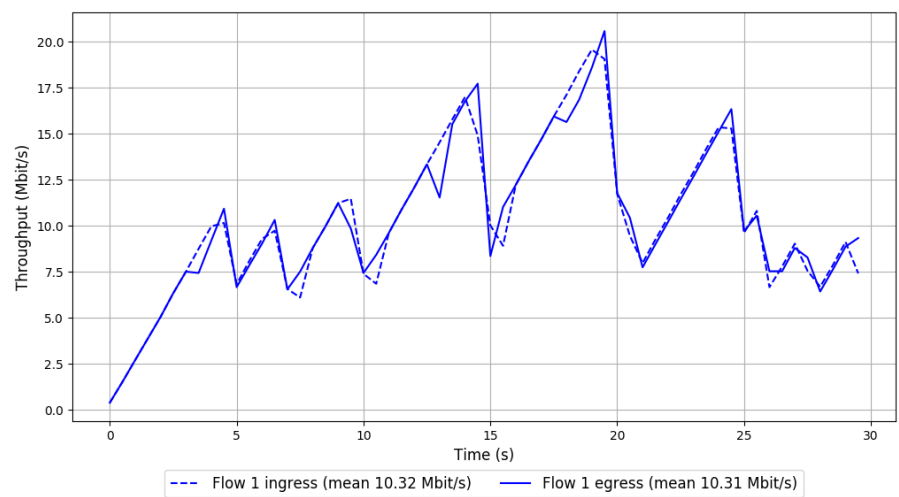
-- Flow 1:

Average throughput: 10.31 Mbit/s

95th percentile per-packet one-way delay: 51.443 ms

Loss rate: 0.04%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2017-10-11 01:52:50

End at: 2017-10-11 01:53:20

Below is generated by plot.py at 2017-10-11 03:27:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 9.17 Mbit/s

95th percentile per-packet one-way delay: 51.906 ms

Loss rate: 0.00%

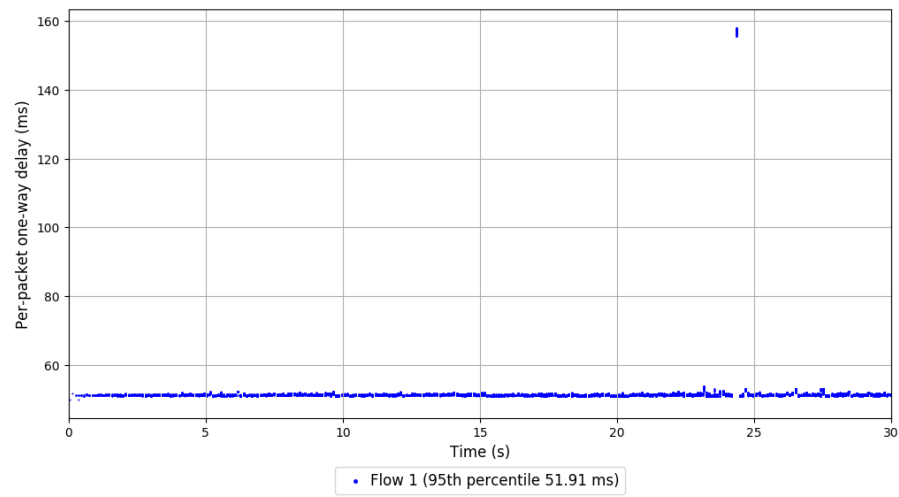
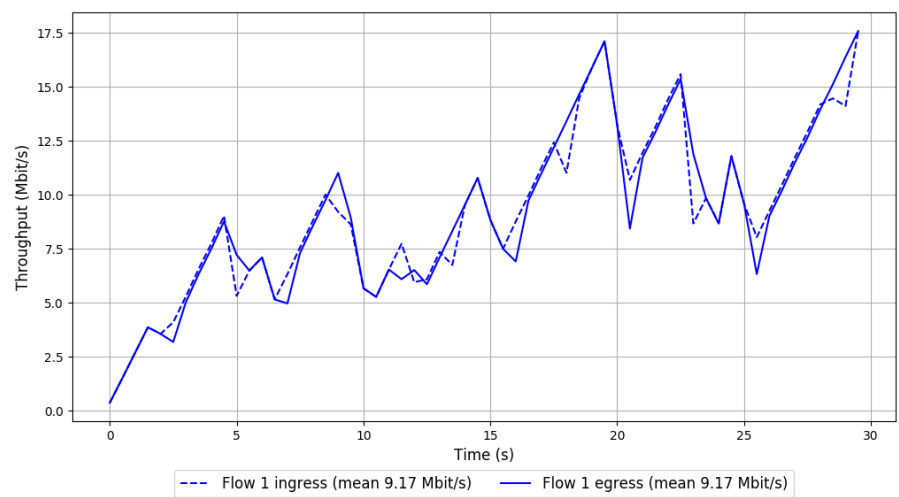
-- Flow 1:

Average throughput: 9.17 Mbit/s

95th percentile per-packet one-way delay: 51.906 ms

Loss rate: 0.00%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2017-10-11 02:03:31

End at: 2017-10-11 02:04:01

Below is generated by plot.py at 2017-10-11 03:27:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 10.19 Mbit/s

95th percentile per-packet one-way delay: 51.576 ms

Loss rate: 0.07%

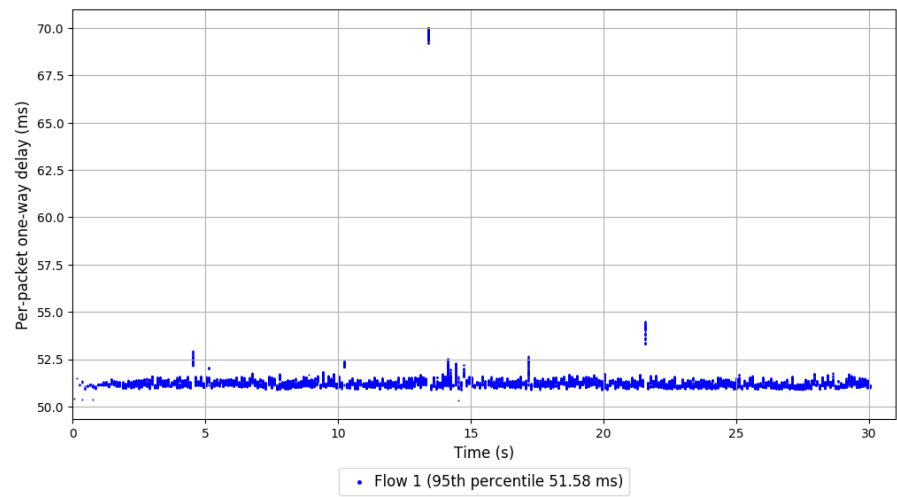
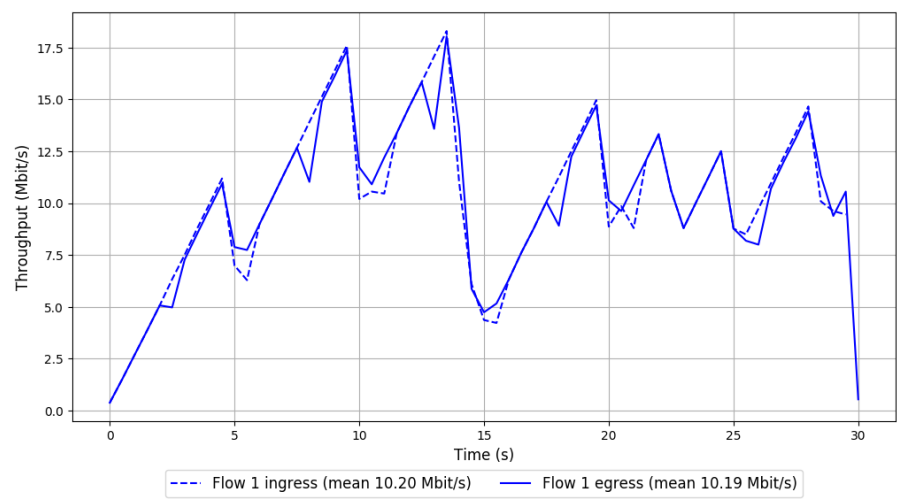
-- Flow 1:

Average throughput: 10.19 Mbit/s

95th percentile per-packet one-way delay: 51.576 ms

Loss rate: 0.07%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2017-10-11 02:14:12

End at: 2017-10-11 02:14:42

Below is generated by plot.py at 2017-10-11 03:27:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 9.15 Mbit/s

95th percentile per-packet one-way delay: 51.599 ms

Loss rate: 0.02%

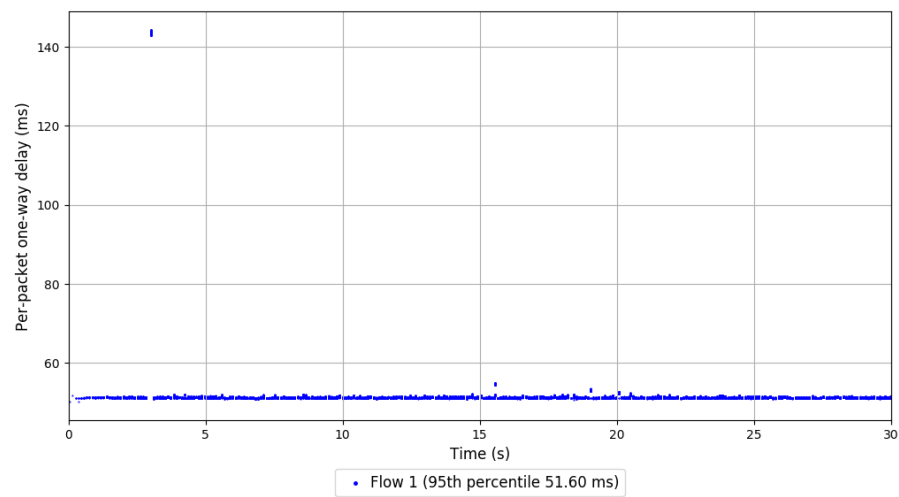
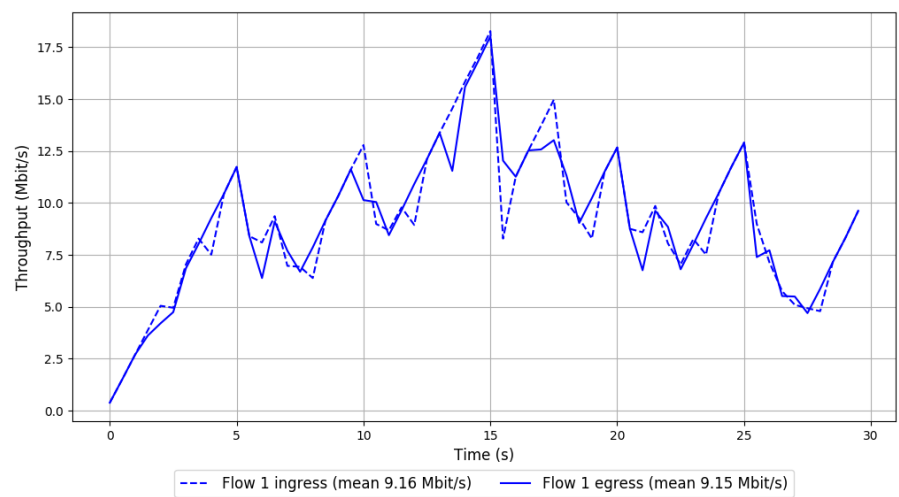
-- Flow 1:

Average throughput: 9.15 Mbit/s

95th percentile per-packet one-way delay: 51.599 ms

Loss rate: 0.02%

Run 10: Report of LEDBAT — Data Link

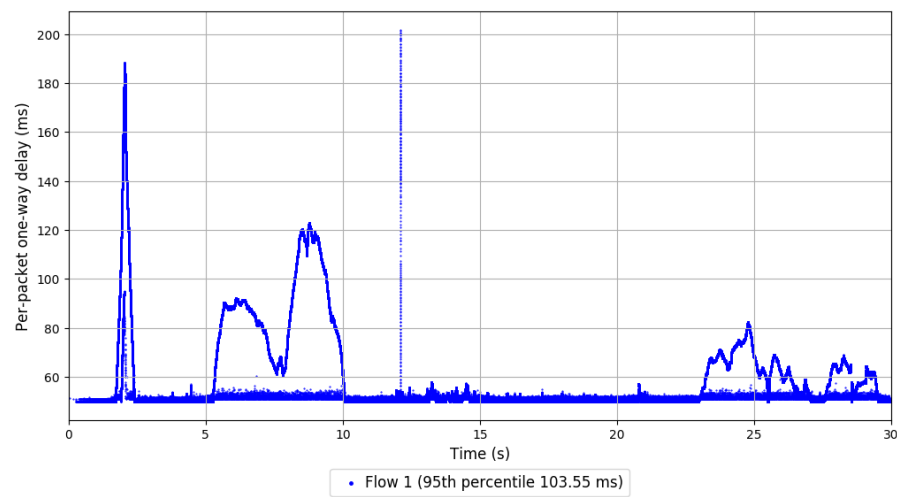
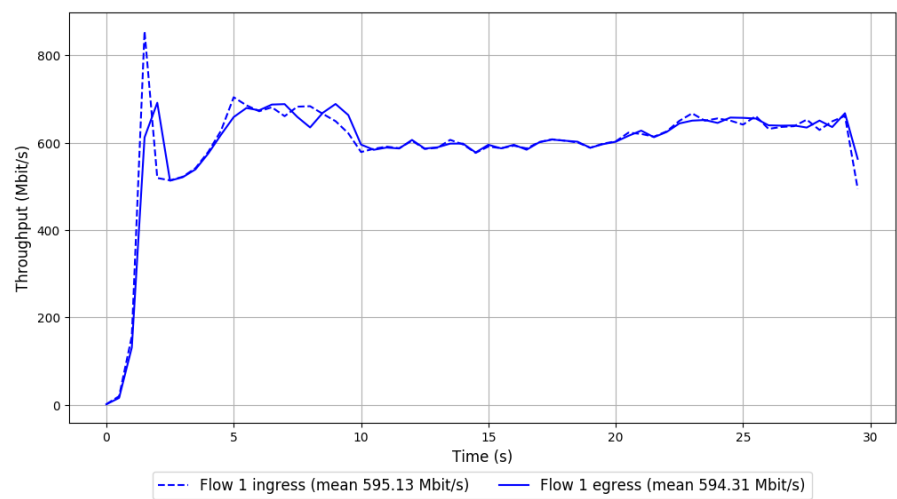


```
Run 1: Statistics of PCC

Start at: 2017-10-11 00:36:33
End at: 2017-10-11 00:37:03

# Below is generated by plot.py at 2017-10-11 03:36:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 594.31 Mbit/s
95th percentile per-packet one-way delay: 103.549 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 594.31 Mbit/s
95th percentile per-packet one-way delay: 103.549 ms
Loss rate: 0.14%
```

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2017-10-11 00:47:24

End at: 2017-10-11 00:47:54

Below is generated by plot.py at 2017-10-11 03:36:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 612.49 Mbit/s

95th percentile per-packet one-way delay: 168.703 ms

Loss rate: 1.20%

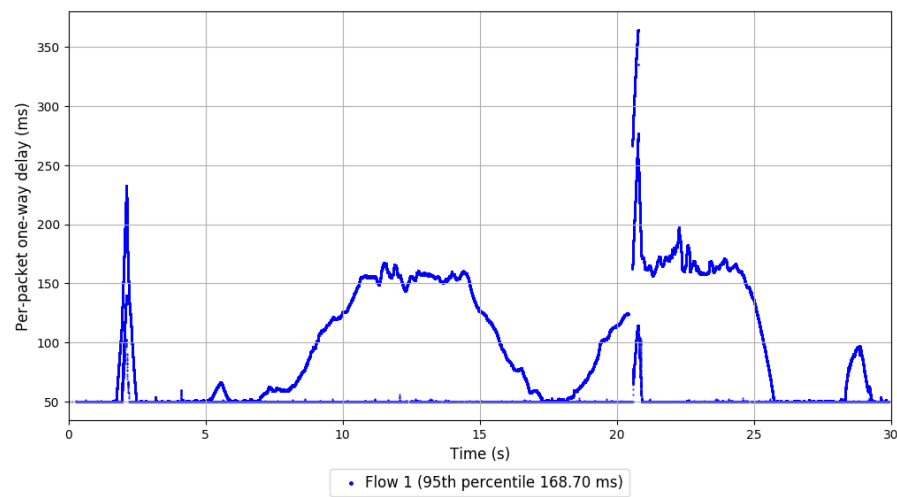
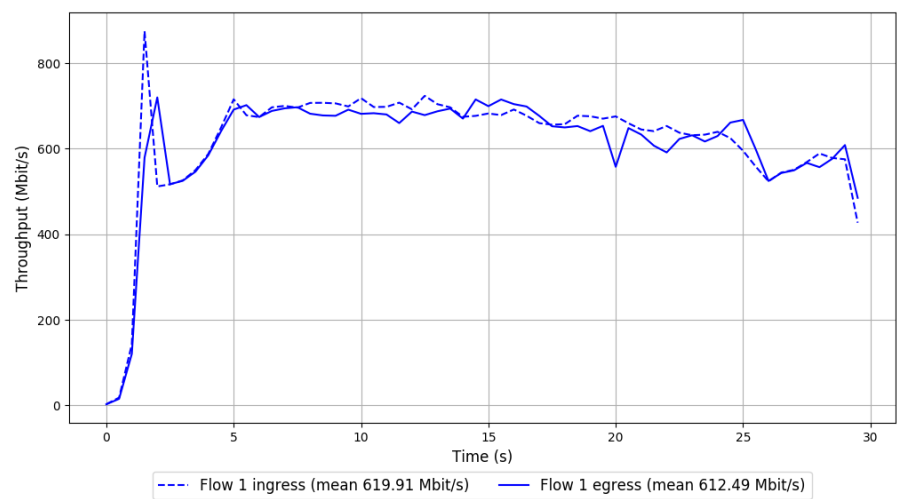
-- Flow 1:

Average throughput: 612.49 Mbit/s

95th percentile per-packet one-way delay: 168.703 ms

Loss rate: 1.20%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2017-10-11 00:58:11

End at: 2017-10-11 00:58:41

Below is generated by plot.py at 2017-10-11 03:36:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 601.06 Mbit/s

95th percentile per-packet one-way delay: 171.178 ms

Loss rate: 1.39%

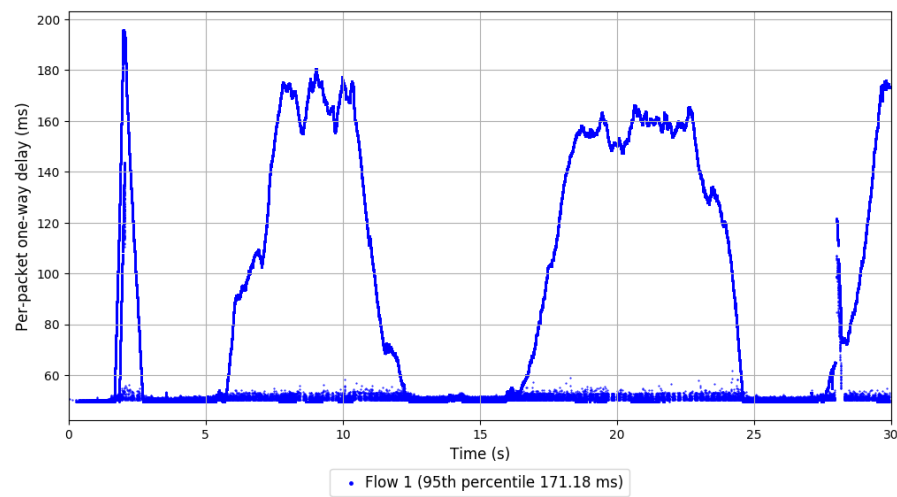
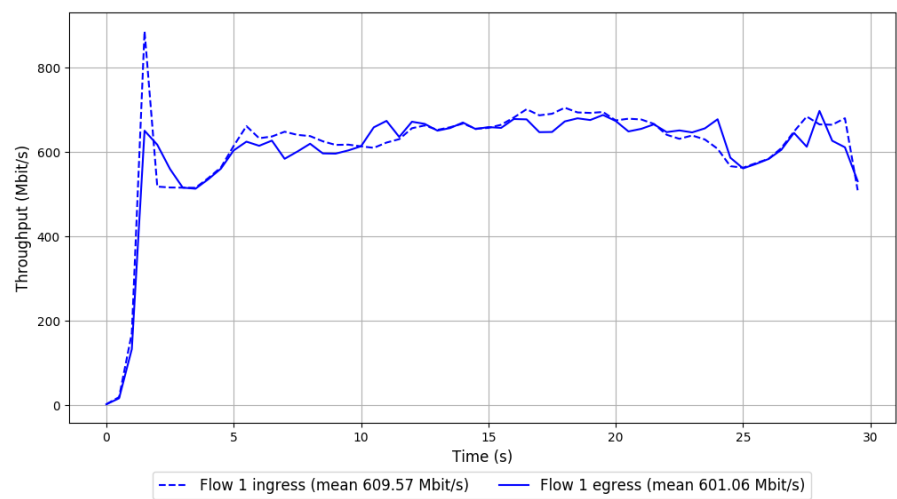
-- Flow 1:

Average throughput: 601.06 Mbit/s

95th percentile per-packet one-way delay: 171.178 ms

Loss rate: 1.39%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2017-10-11 01:08:58

End at: 2017-10-11 01:09:28

Below is generated by plot.py at 2017-10-11 03:36:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 576.85 Mbit/s

95th percentile per-packet one-way delay: 168.457 ms

Loss rate: 0.86%

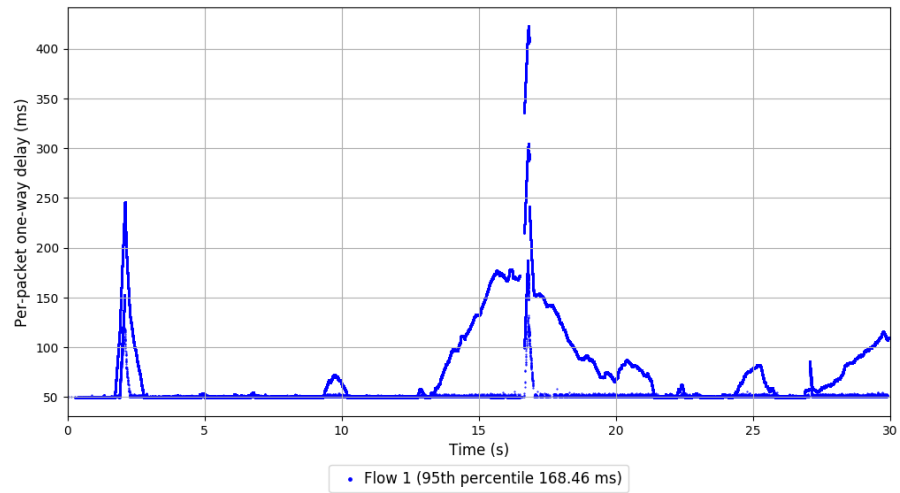
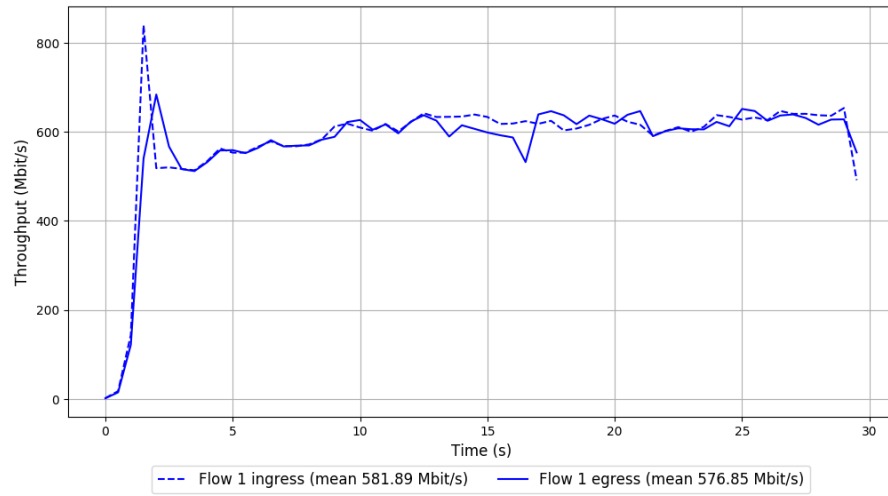
-- Flow 1:

Average throughput: 576.85 Mbit/s

95th percentile per-packet one-way delay: 168.457 ms

Loss rate: 0.86%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2017-10-11 01:19:43

End at: 2017-10-11 01:20:13

Below is generated by plot.py at 2017-10-11 03:36:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 449.74 Mbit/s

95th percentile per-packet one-way delay: 114.945 ms

Loss rate: 0.07%

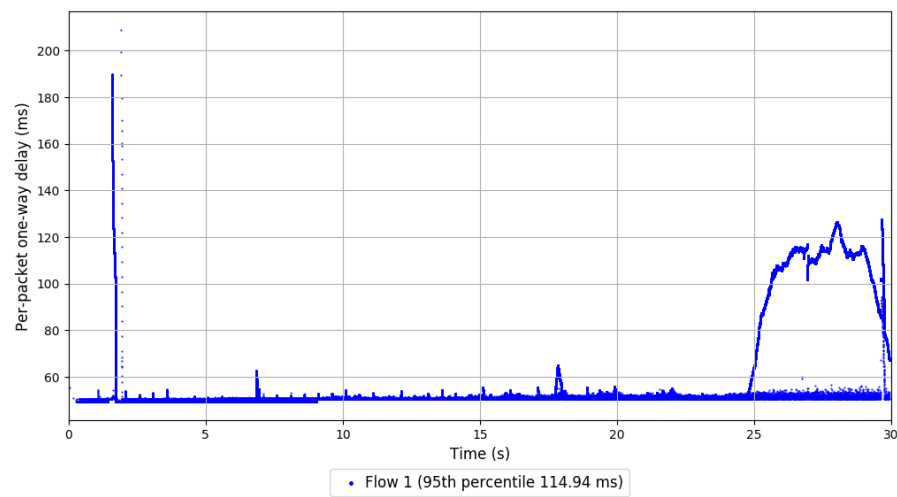
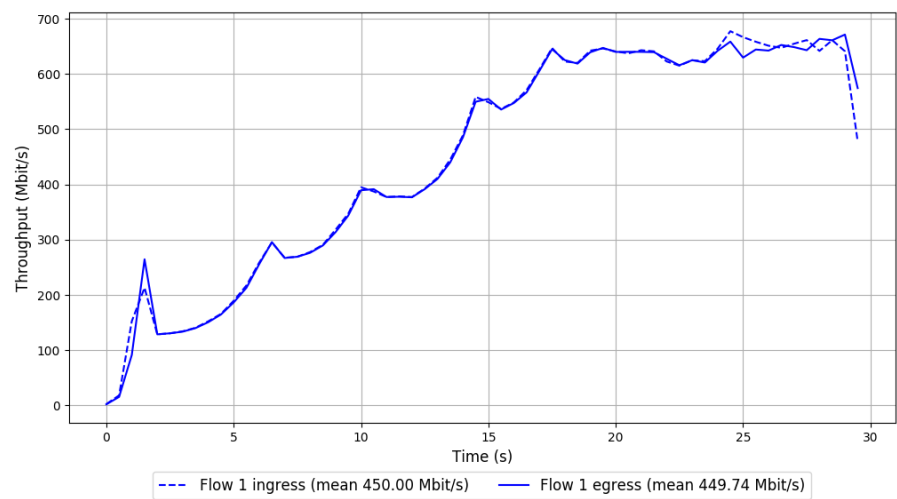
-- Flow 1:

Average throughput: 449.74 Mbit/s

95th percentile per-packet one-way delay: 114.945 ms

Loss rate: 0.07%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2017-10-11 01:30:25

End at: 2017-10-11 01:30:56

Below is generated by plot.py at 2017-10-11 03:36:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 618.44 Mbit/s

95th percentile per-packet one-way delay: 129.029 ms

Loss rate: 0.26%

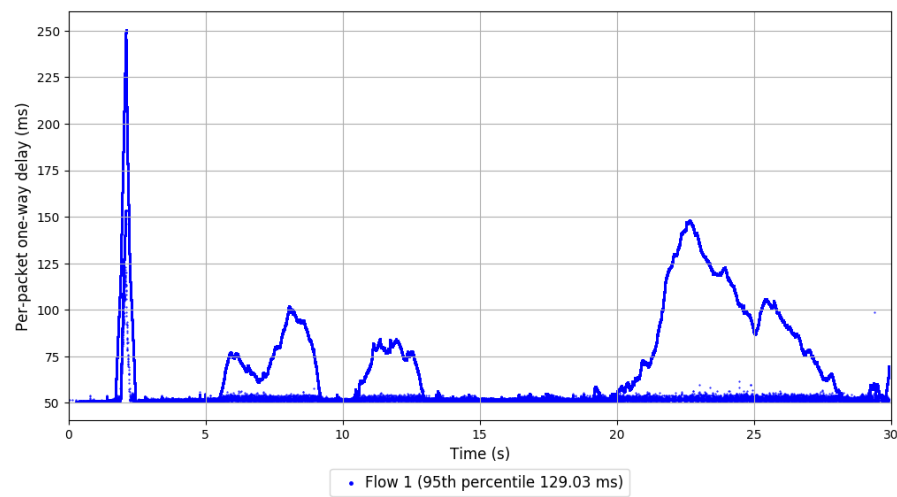
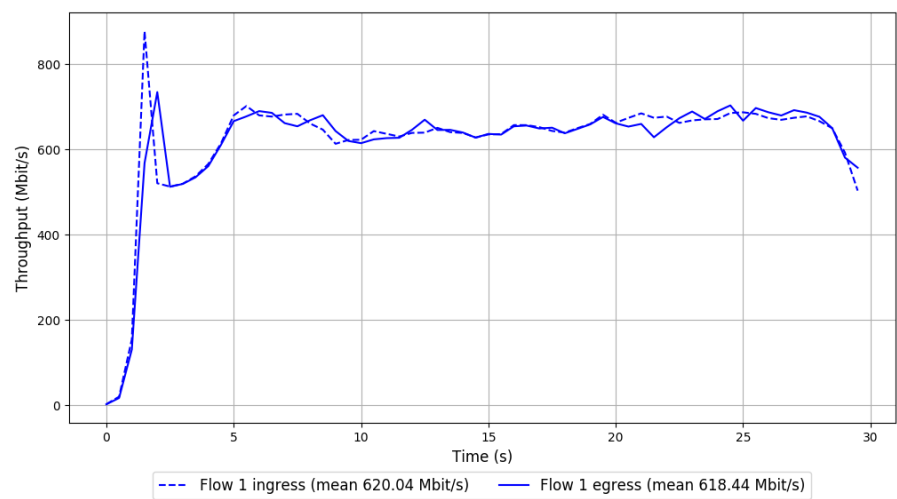
-- Flow 1:

Average throughput: 618.44 Mbit/s

95th percentile per-packet one-way delay: 129.029 ms

Loss rate: 0.26%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2017-10-11 01:41:07

End at: 2017-10-11 01:41:37

Below is generated by plot.py at 2017-10-11 03:37:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 578.84 Mbit/s

95th percentile per-packet one-way delay: 64.715 ms

Loss rate: 0.15%

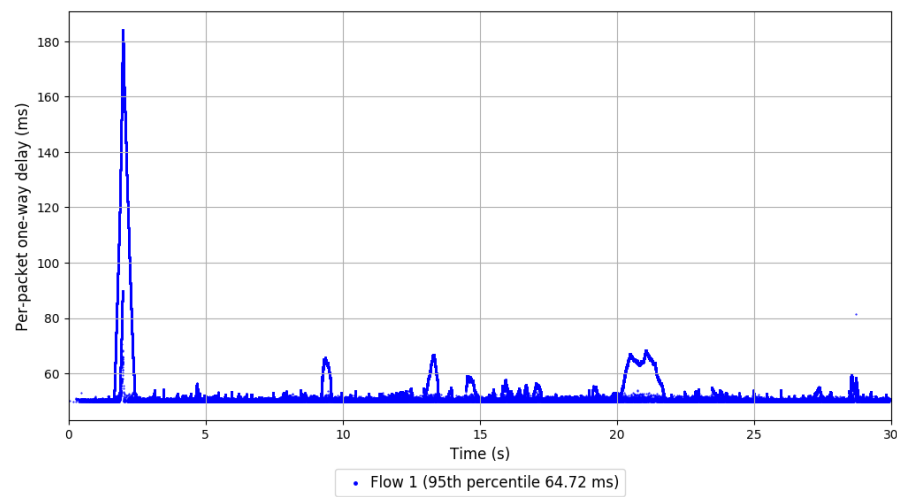
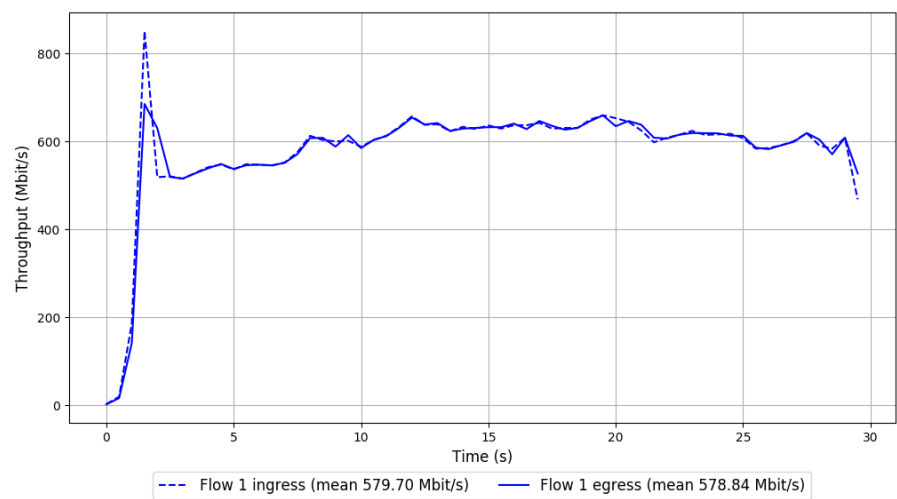
-- Flow 1:

Average throughput: 578.84 Mbit/s

95th percentile per-packet one-way delay: 64.715 ms

Loss rate: 0.15%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2017-10-11 01:51:51

End at: 2017-10-11 01:52:21

Below is generated by plot.py at 2017-10-11 03:38:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 579.57 Mbit/s

95th percentile per-packet one-way delay: 181.791 ms

Loss rate: 2.04%

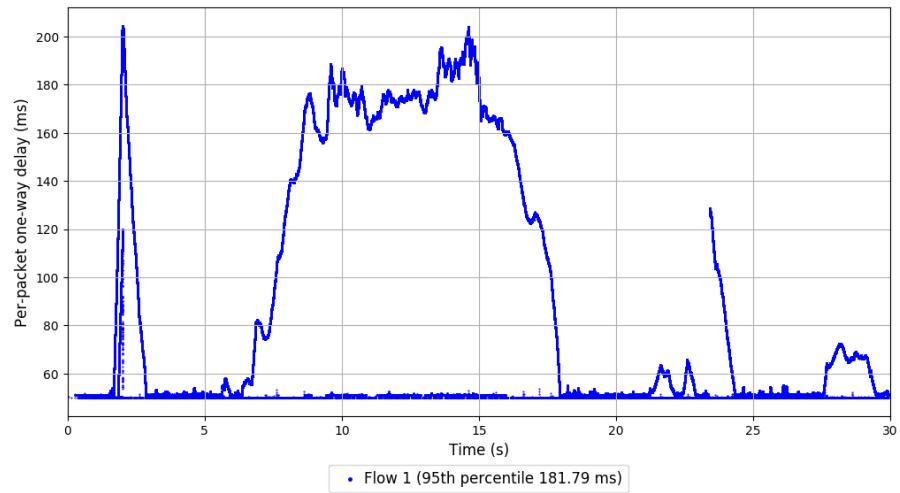
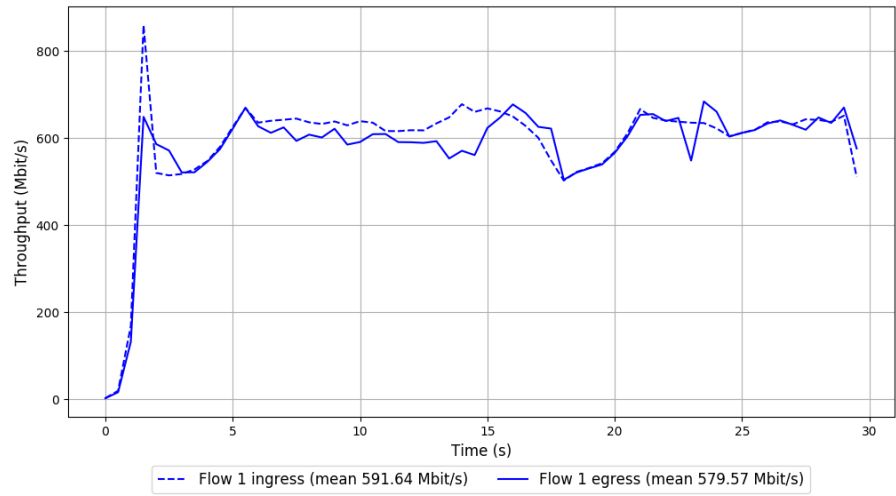
-- Flow 1:

Average throughput: 579.57 Mbit/s

95th percentile per-packet one-way delay: 181.791 ms

Loss rate: 2.04%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2017-10-11 02:02:34

End at: 2017-10-11 02:03:04

Below is generated by plot.py at 2017-10-11 03:46:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 576.84 Mbit/s

95th percentile per-packet one-way delay: 110.149 ms

Loss rate: 0.22%

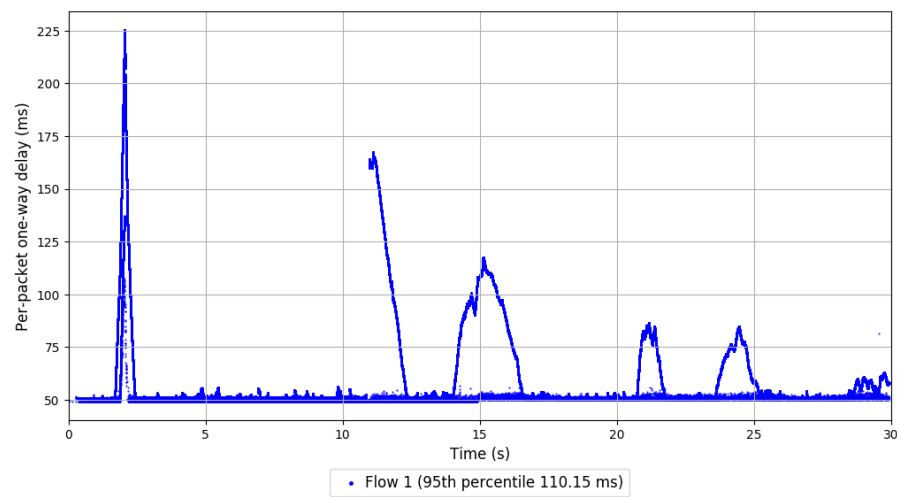
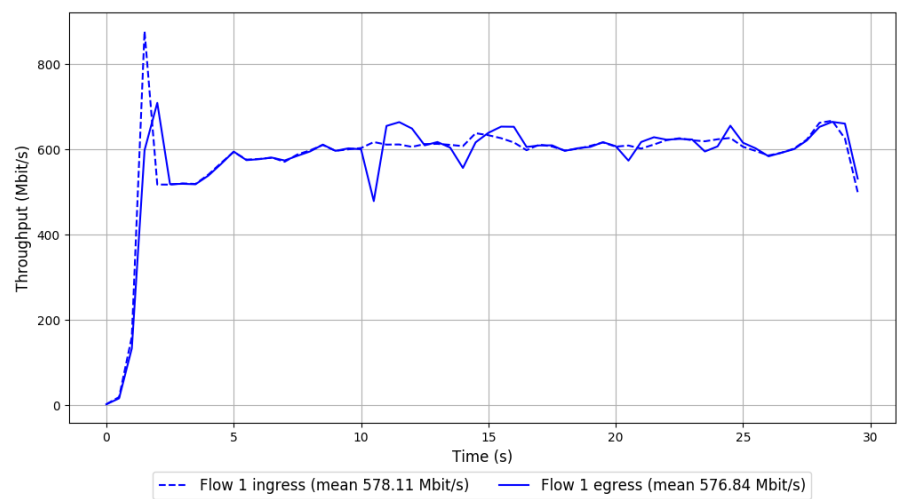
-- Flow 1:

Average throughput: 576.84 Mbit/s

95th percentile per-packet one-way delay: 110.149 ms

Loss rate: 0.22%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2017-10-11 02:13:14

End at: 2017-10-11 02:13:44

Below is generated by plot.py at 2017-10-11 03:46:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 570.45 Mbit/s

95th percentile per-packet one-way delay: 124.285 ms

Loss rate: 0.21%

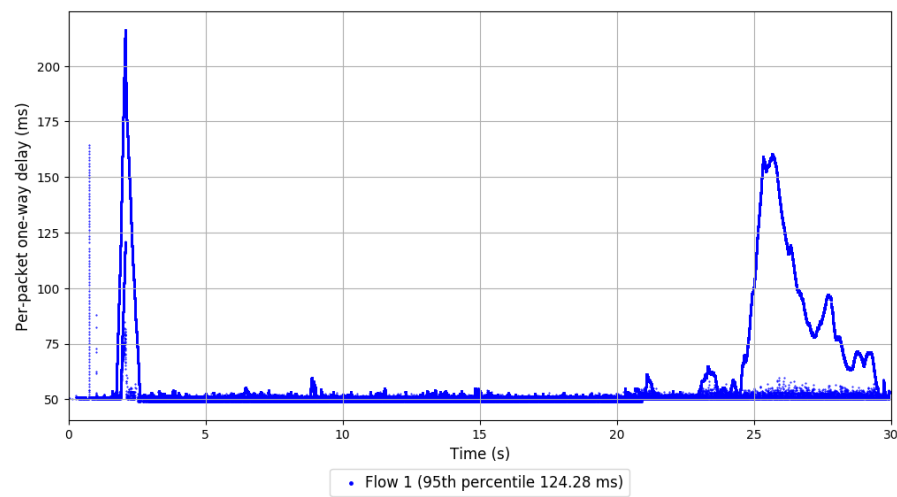
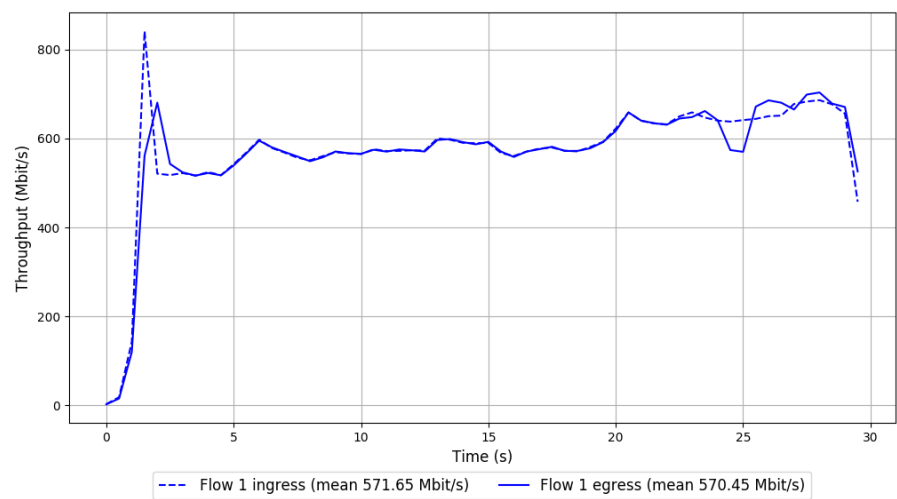
-- Flow 1:

Average throughput: 570.45 Mbit/s

95th percentile per-packet one-way delay: 124.285 ms

Loss rate: 0.21%

Run 10: Report of PCC — Data Link

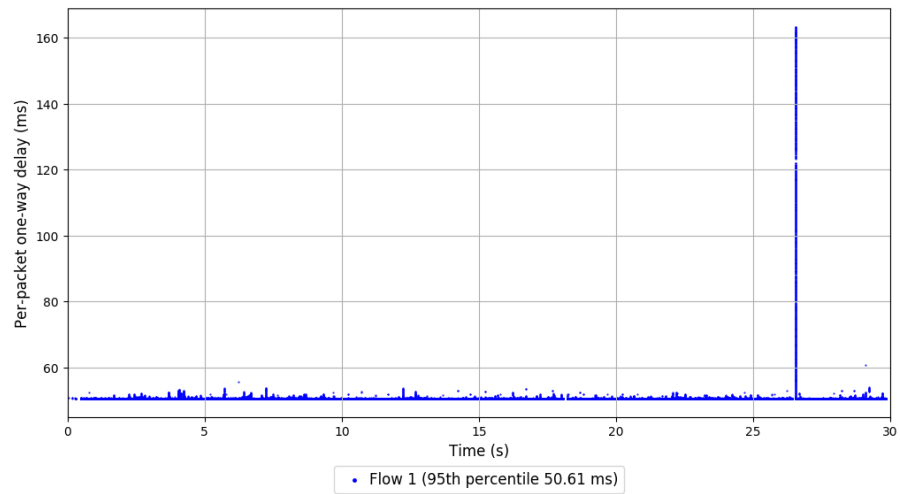
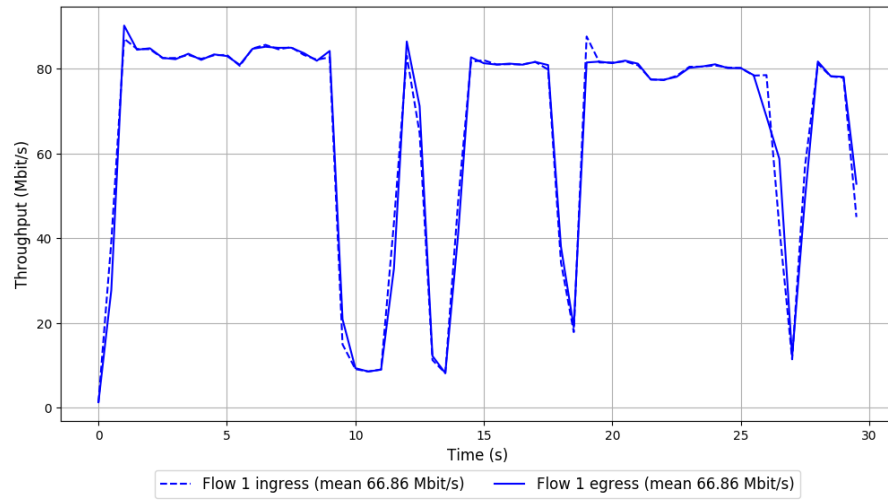


```
Run 1: Statistics of QUIC Cubic

Start at: 2017-10-11 00:34:18
End at: 2017-10-11 00:34:48

# Below is generated by plot.py at 2017-10-11 03:46:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 66.86 Mbit/s
95th percentile per-packet one-way delay: 50.612 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 66.86 Mbit/s
95th percentile per-packet one-way delay: 50.612 ms
Loss rate: 0.00%
```


Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2017-10-11 00:45:06

End at: 2017-10-11 00:45:36

Below is generated by plot.py at 2017-10-11 03:46:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 61.68 Mbit/s

95th percentile per-packet one-way delay: 49.078 ms

Loss rate: 0.00%

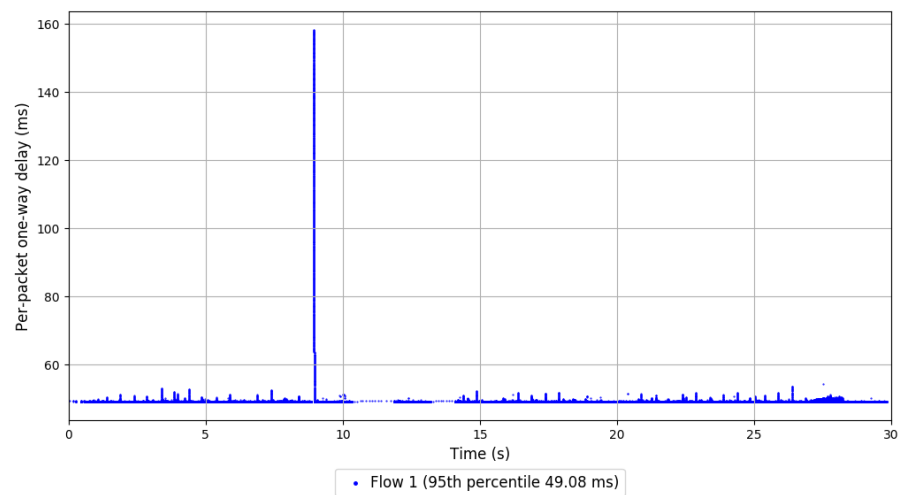
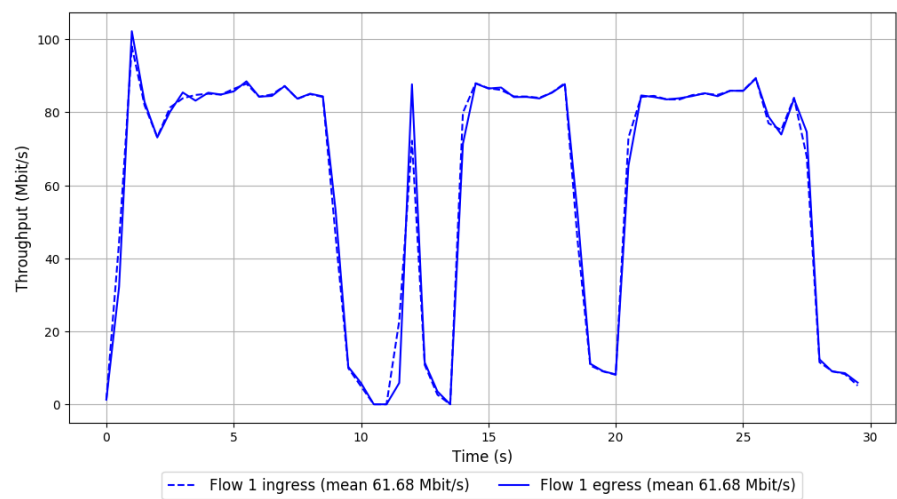
-- Flow 1:

Average throughput: 61.68 Mbit/s

95th percentile per-packet one-way delay: 49.078 ms

Loss rate: 0.00%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2017-10-11 00:55:51

End at: 2017-10-11 00:56:21

Below is generated by plot.py at 2017-10-11 03:46:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 62.44 Mbit/s

95th percentile per-packet one-way delay: 50.260 ms

Loss rate: 0.00%

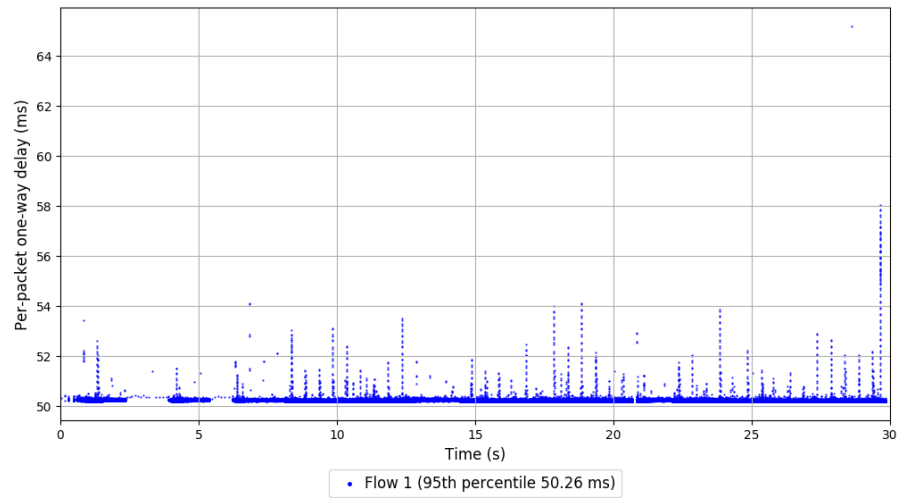
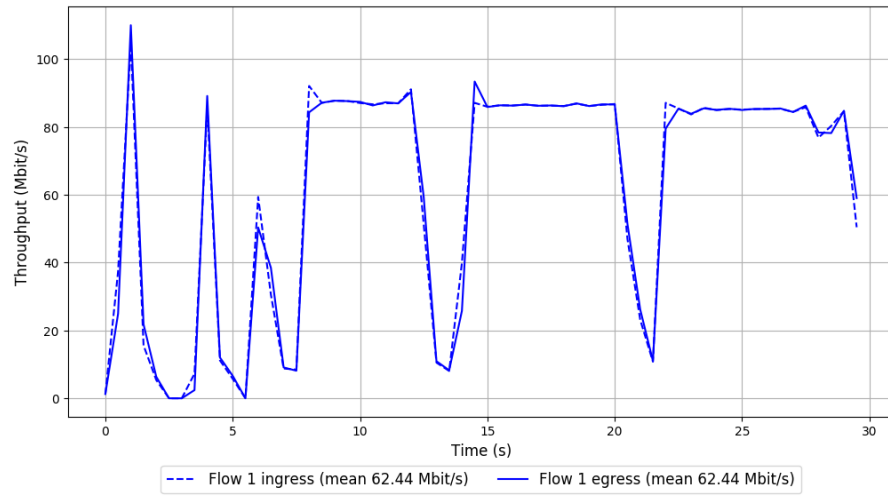
-- Flow 1:

Average throughput: 62.44 Mbit/s

95th percentile per-packet one-way delay: 50.260 ms

Loss rate: 0.00%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2017-10-11 01:06:40

End at: 2017-10-11 01:07:10

Below is generated by plot.py at 2017-10-11 03:46:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 60.18 Mbit/s

95th percentile per-packet one-way delay: 51.169 ms

Loss rate: 0.00%

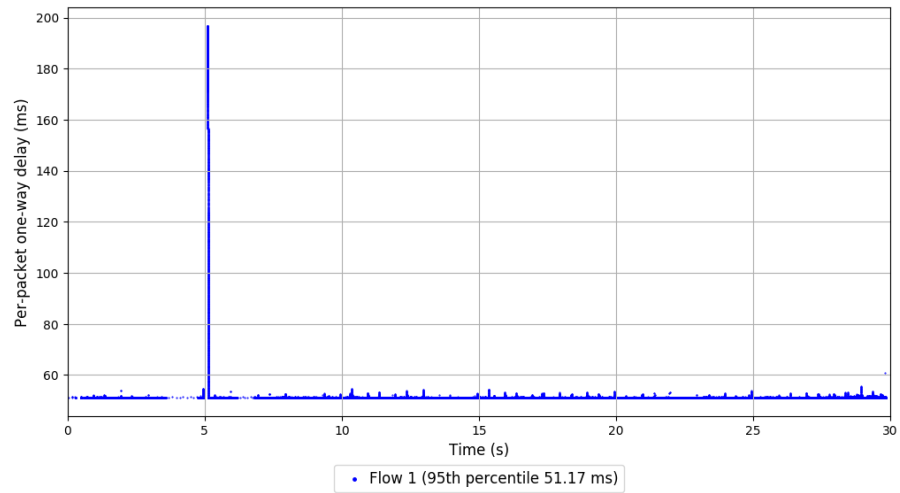
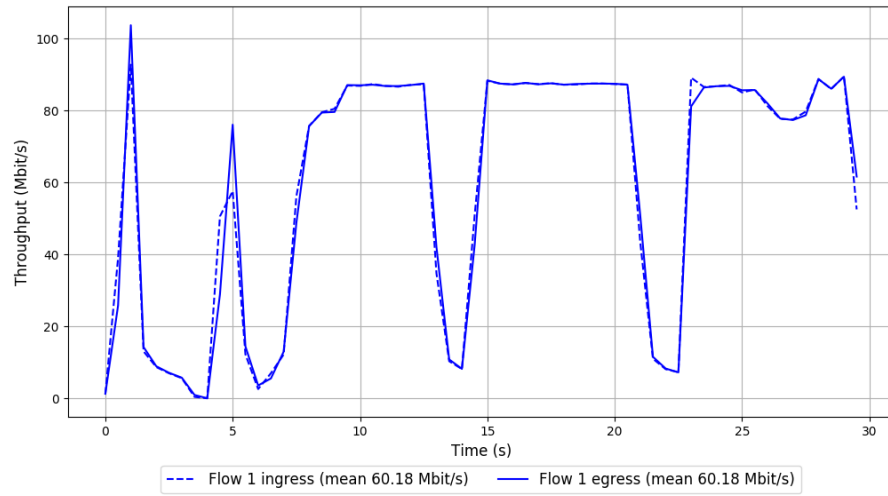
-- Flow 1:

Average throughput: 60.18 Mbit/s

95th percentile per-packet one-way delay: 51.169 ms

Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2017-10-11 01:17:23

End at: 2017-10-11 01:17:53

Below is generated by plot.py at 2017-10-11 03:46:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.60 Mbit/s

95th percentile per-packet one-way delay: 50.567 ms

Loss rate: 0.00%

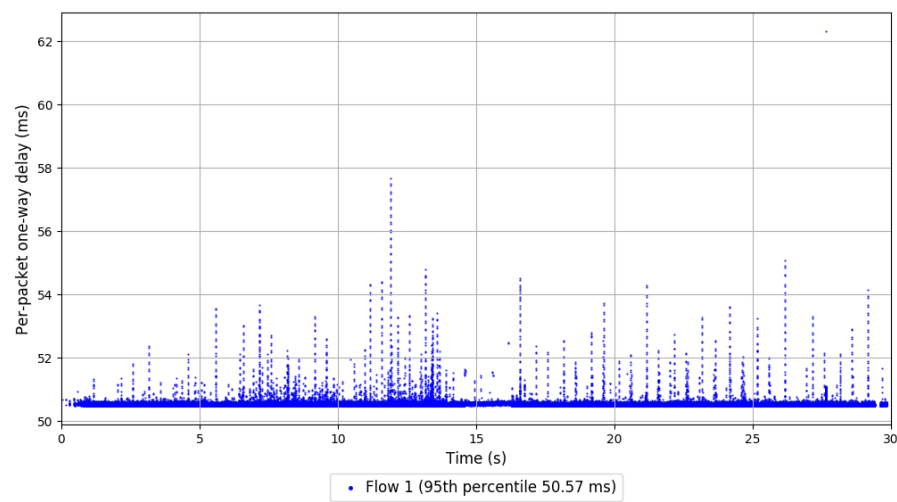
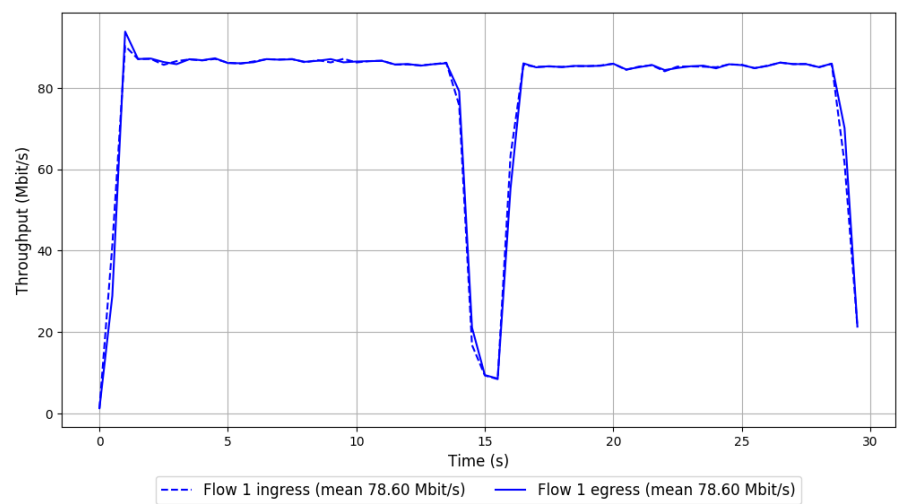
-- Flow 1:

Average throughput: 78.60 Mbit/s

95th percentile per-packet one-way delay: 50.567 ms

Loss rate: 0.00%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2017-10-11 01:28:07

End at: 2017-10-11 01:28:37

Below is generated by plot.py at 2017-10-11 03:46:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 55.20 Mbit/s

95th percentile per-packet one-way delay: 50.315 ms

Loss rate: 0.00%

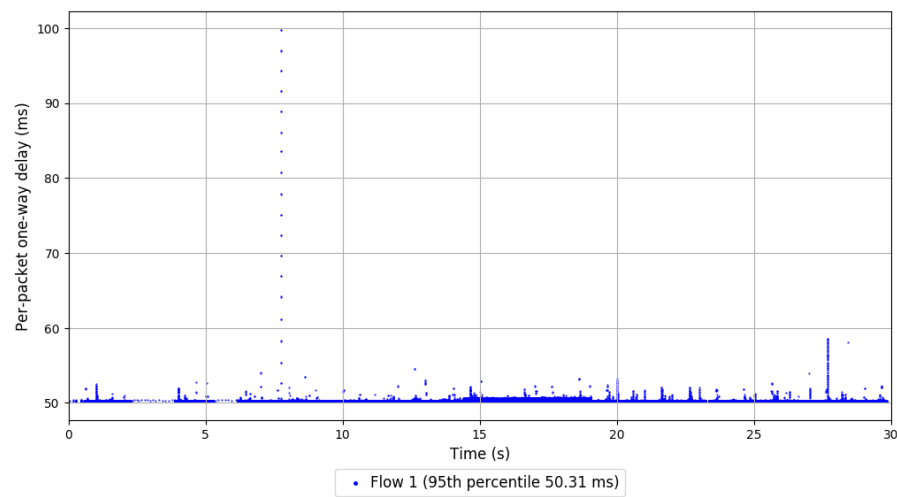
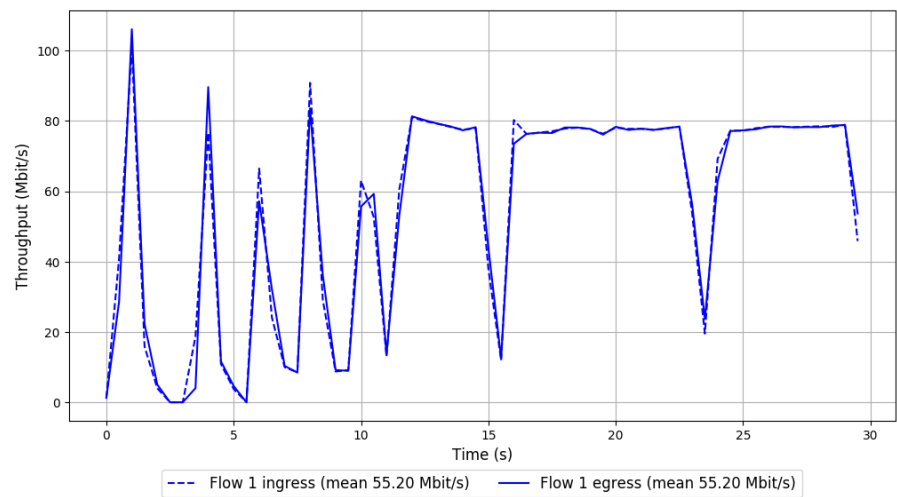
-- Flow 1:

Average throughput: 55.20 Mbit/s

95th percentile per-packet one-way delay: 50.315 ms

Loss rate: 0.00%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2017-10-11 01:38:51

End at: 2017-10-11 01:39:21

Below is generated by plot.py at 2017-10-11 03:46:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 57.69 Mbit/s

95th percentile per-packet one-way delay: 50.107 ms

Loss rate: 0.00%

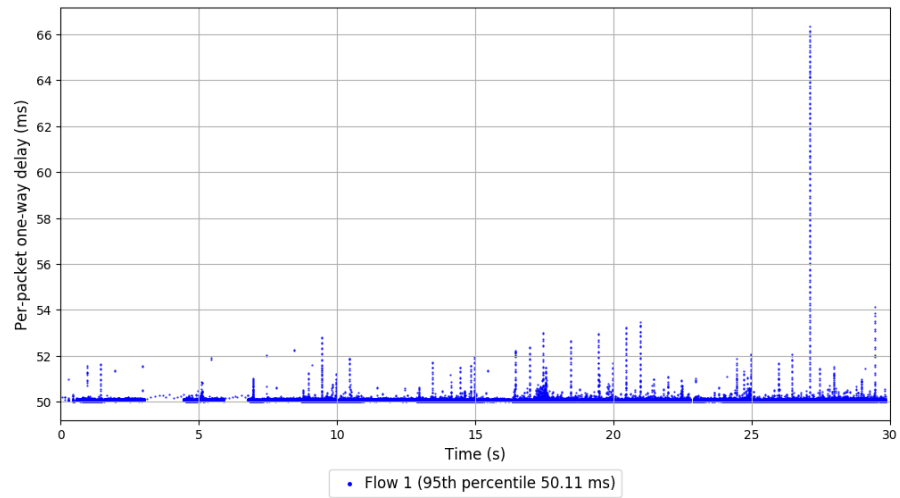
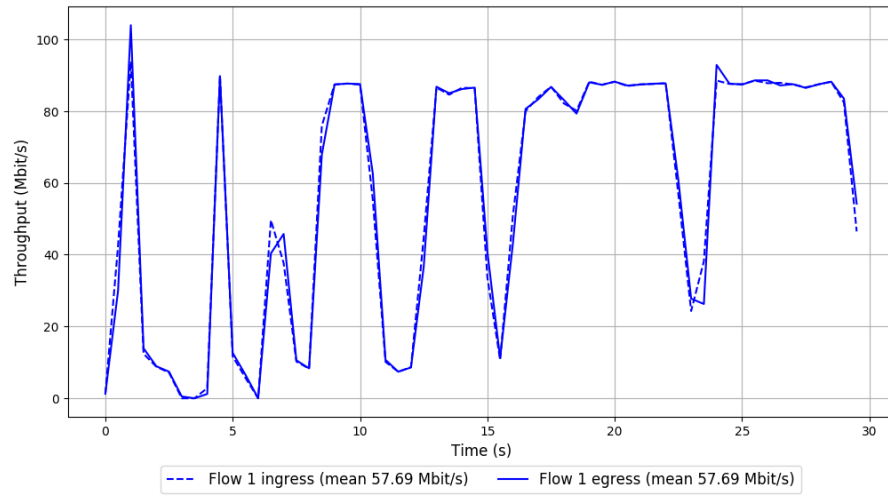
-- Flow 1:

Average throughput: 57.69 Mbit/s

95th percentile per-packet one-way delay: 50.107 ms

Loss rate: 0.00%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2017-10-11 01:49:34

End at: 2017-10-11 01:50:04

Below is generated by plot.py at 2017-10-11 03:46:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 54.32 Mbit/s

95th percentile per-packet one-way delay: 50.067 ms

Loss rate: 0.00%

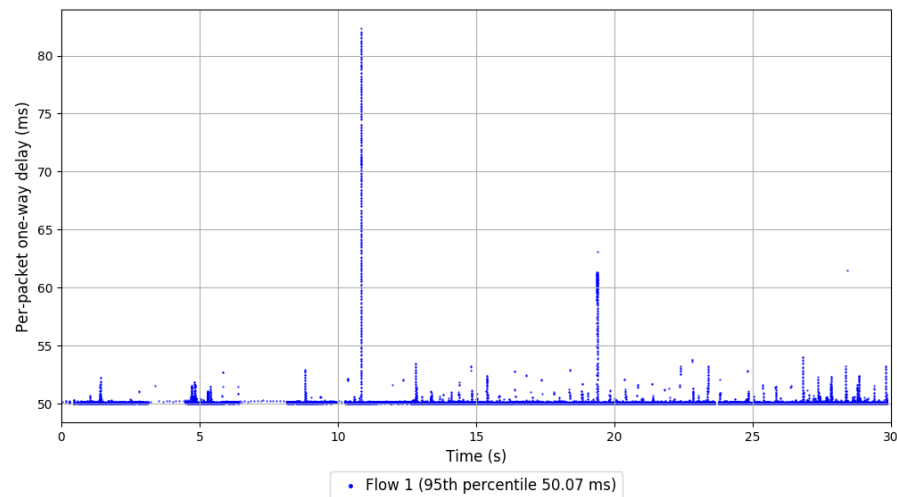
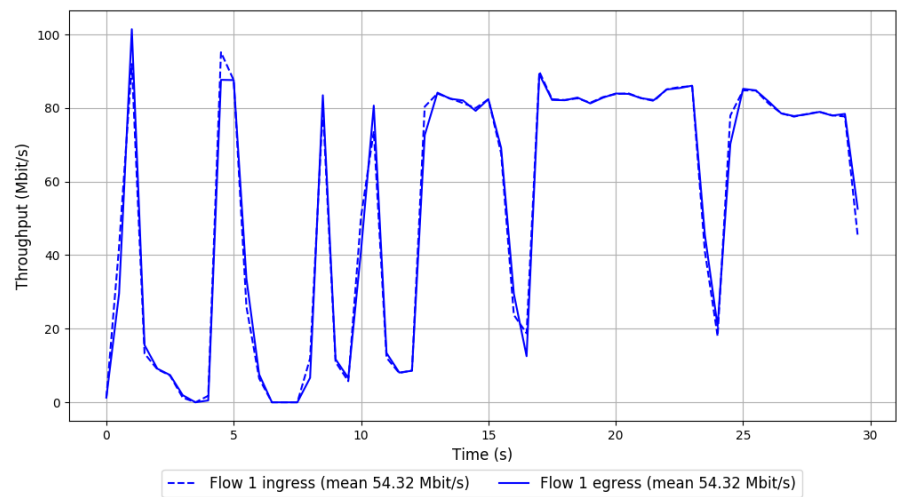
-- Flow 1:

Average throughput: 54.32 Mbit/s

95th percentile per-packet one-way delay: 50.067 ms

Loss rate: 0.00%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2017-10-11 02:00:22

End at: 2017-10-11 02:00:52

Below is generated by plot.py at 2017-10-11 03:46:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 70.57 Mbit/s

95th percentile per-packet one-way delay: 49.022 ms

Loss rate: 0.00%

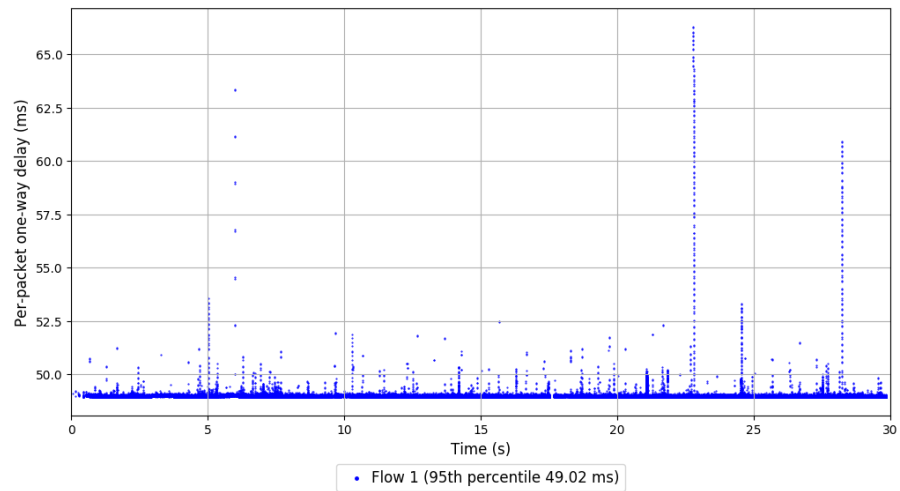
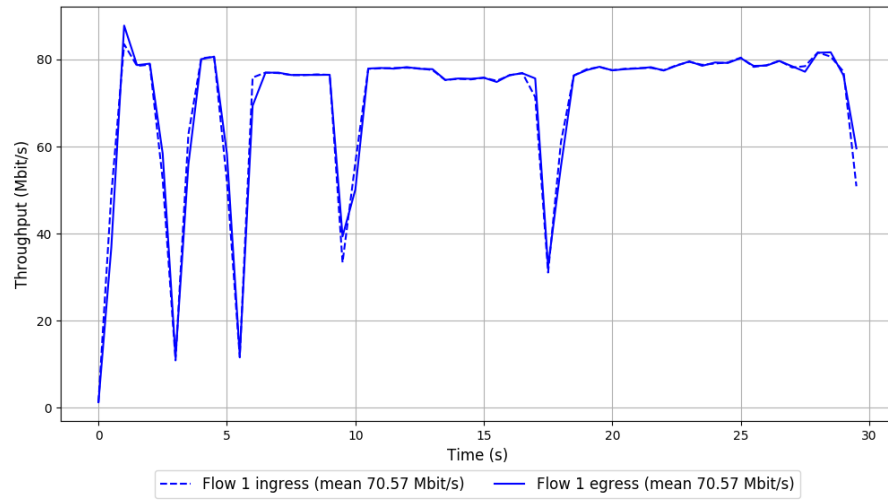
-- Flow 1:

Average throughput: 70.57 Mbit/s

95th percentile per-packet one-way delay: 49.022 ms

Loss rate: 0.00%

Run 9: Report of QUIC Cubic — Data Link

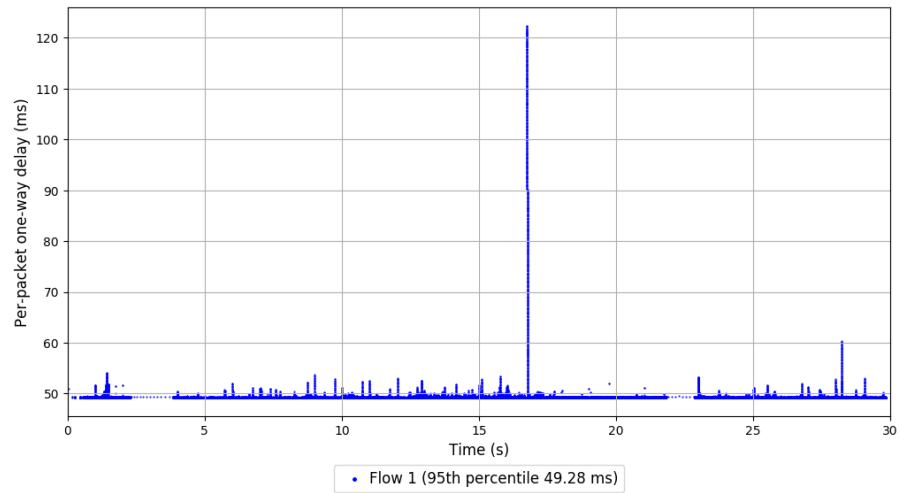
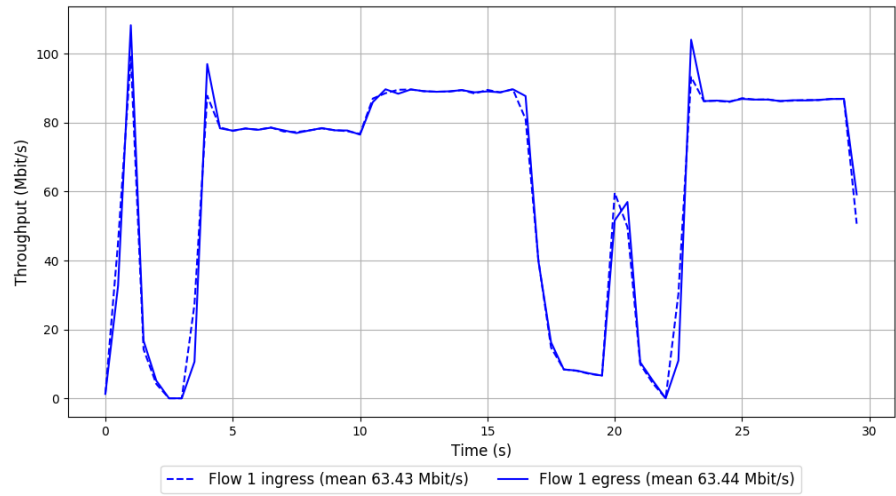


```
Run 10: Statistics of QUIC Cubic

Start at: 2017-10-11 02:10:58
End at: 2017-10-11 02:11:28

# Below is generated by plot.py at 2017-10-11 03:46:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 63.44 Mbit/s
95th percentile per-packet one-way delay: 49.284 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 63.44 Mbit/s
95th percentile per-packet one-way delay: 49.284 ms
Loss rate: 0.00%
```

Run 10: Report of QUIC Cubic — Data Link

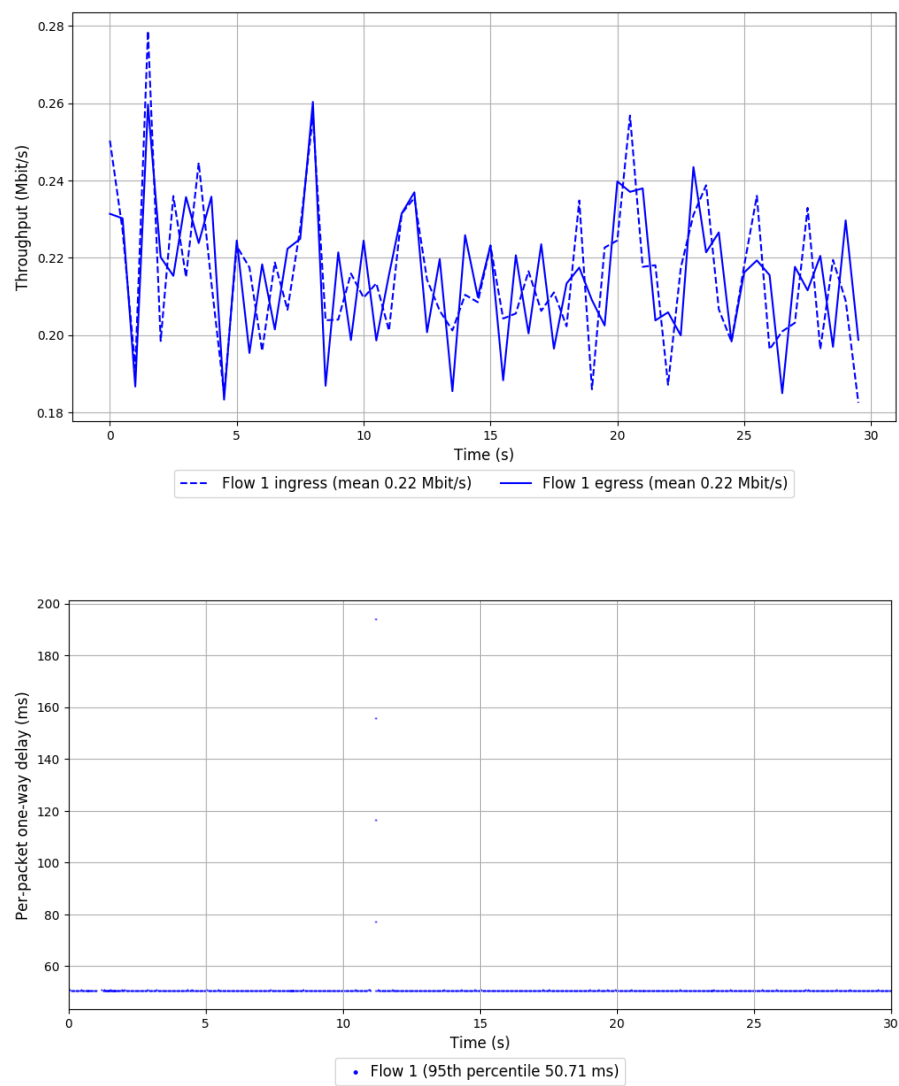


```
Run 1: Statistics of SCReAM

Start at: 2017-10-11 00:40:04
End at: 2017-10-11 00:40:34

# Below is generated by plot.py at 2017-10-11 03:46:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.711 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.711 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

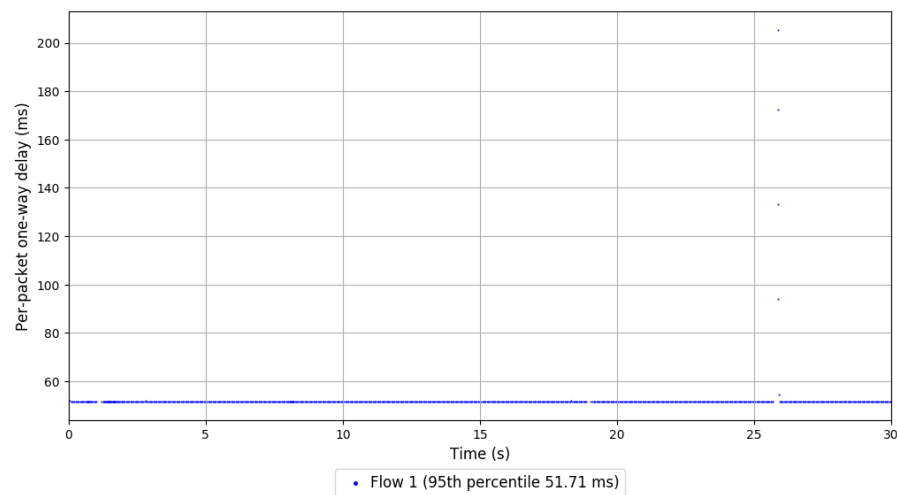
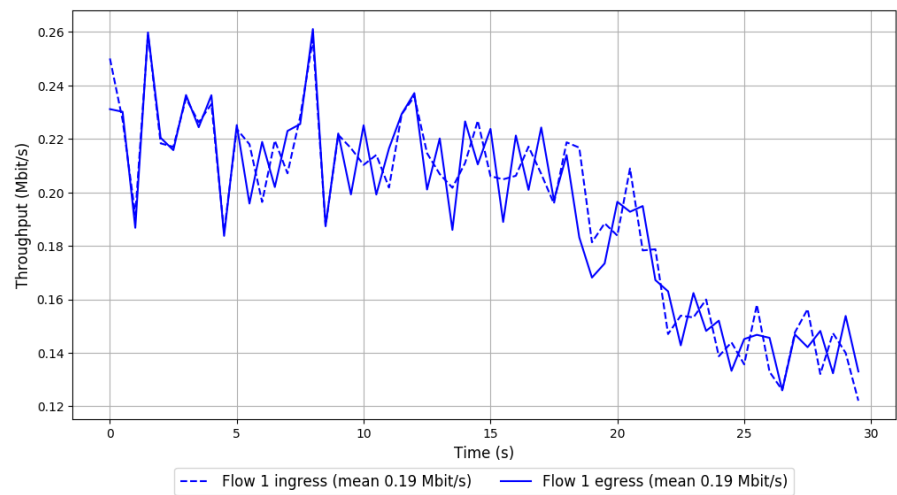


```
Run 2: Statistics of SCReAM

Start at: 2017-10-11 00:50:49
End at: 2017-10-11 00:51:19

# Below is generated by plot.py at 2017-10-11 03:46:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 51.710 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 51.710 ms
Loss rate: 0.46%
```

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2017-10-11 01:01:36

End at: 2017-10-11 01:02:06

Below is generated by plot.py at 2017-10-11 03:46:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.880 ms

Loss rate: 0.00%

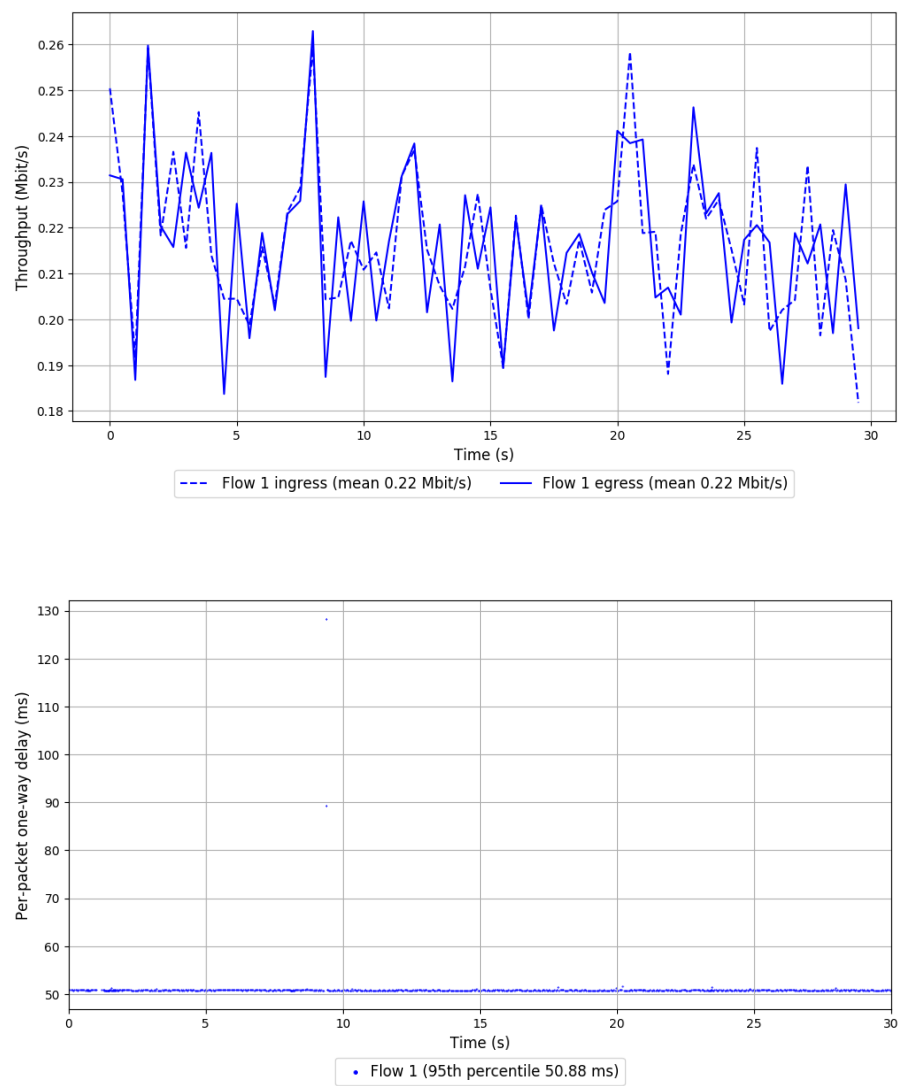
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.880 ms

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link

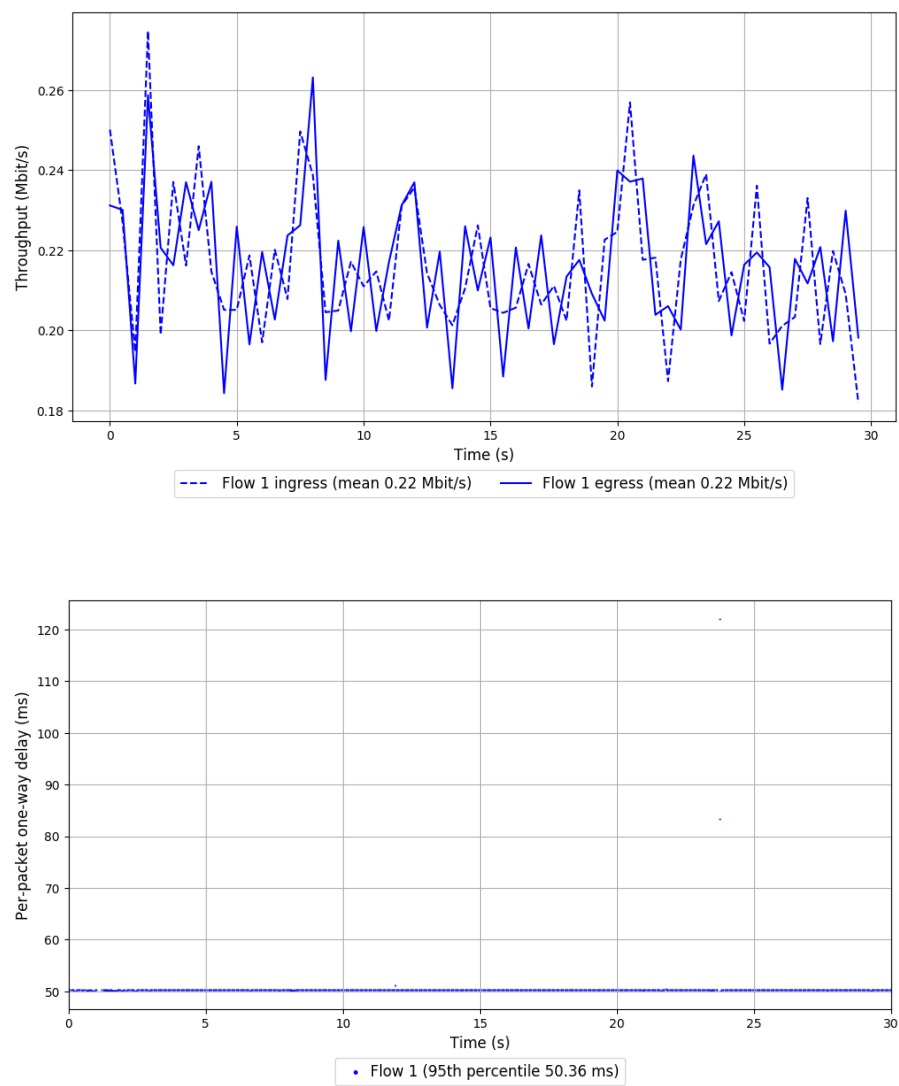


```
Run 4: Statistics of SCReAM

Start at: 2017-10-11 01:12:21
End at: 2017-10-11 01:12:51

# Below is generated by plot.py at 2017-10-11 03:46:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.361 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.361 ms
Loss rate: 0.00%
```

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2017-10-11 01:23:05

End at: 2017-10-11 01:23:35

Below is generated by plot.py at 2017-10-11 03:46:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.215 ms

Loss rate: 0.00%

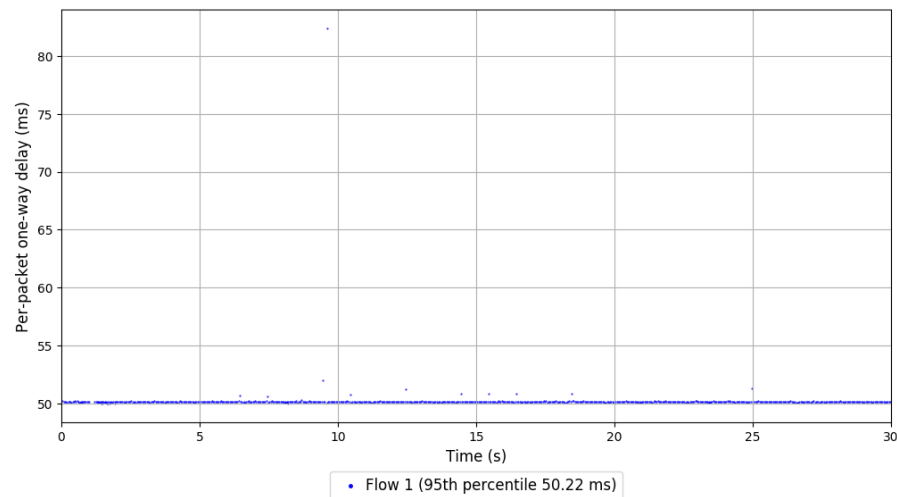
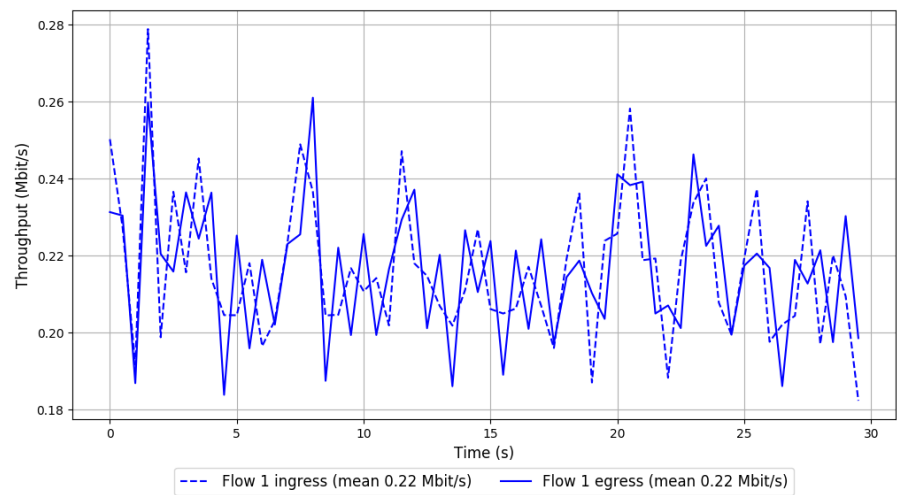
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.215 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link

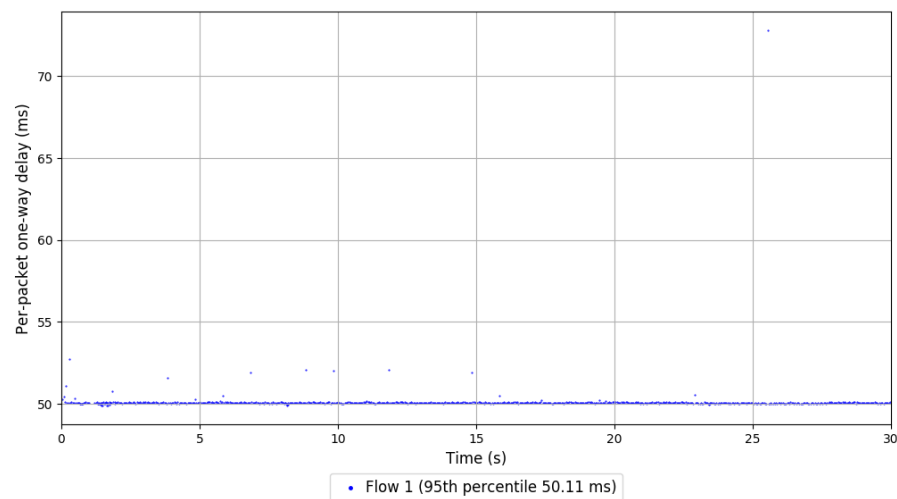
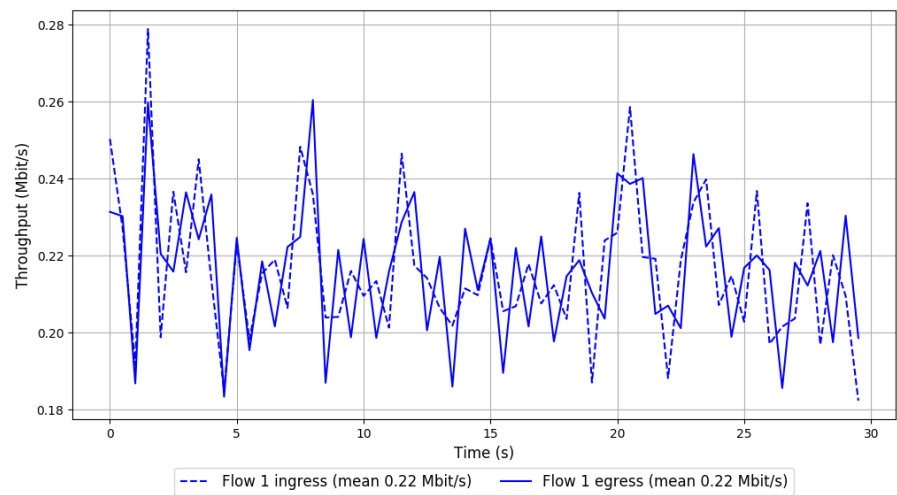


```
Run 6: Statistics of SCReAM

Start at: 2017-10-11 01:33:50
End at: 2017-10-11 01:34:20

# Below is generated by plot.py at 2017-10-11 03:46:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.109 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.109 ms
Loss rate: 0.00%
```

Run 6: Report of SReAM — Data Link

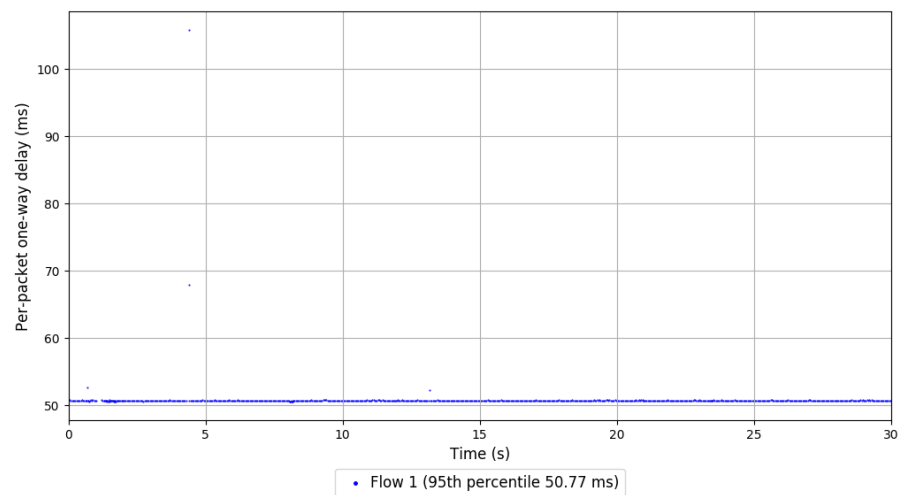
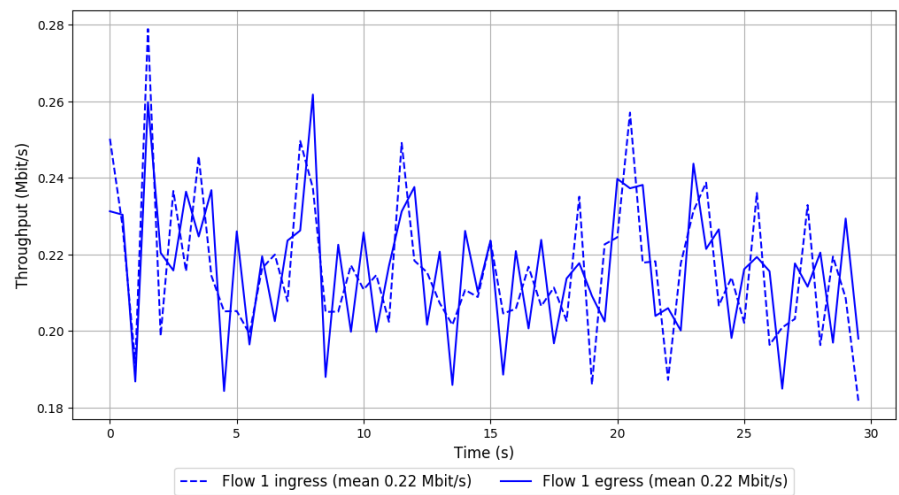


```
Run 7: Statistics of SCReAM

Start at: 2017-10-11 01:44:30
End at: 2017-10-11 01:45:00

# Below is generated by plot.py at 2017-10-11 03:46:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.769 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.769 ms
Loss rate: 0.00%
```


Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2017-10-11 01:55:20

End at: 2017-10-11 01:55:50

Below is generated by plot.py at 2017-10-11 03:46:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.693 ms

Loss rate: 0.00%

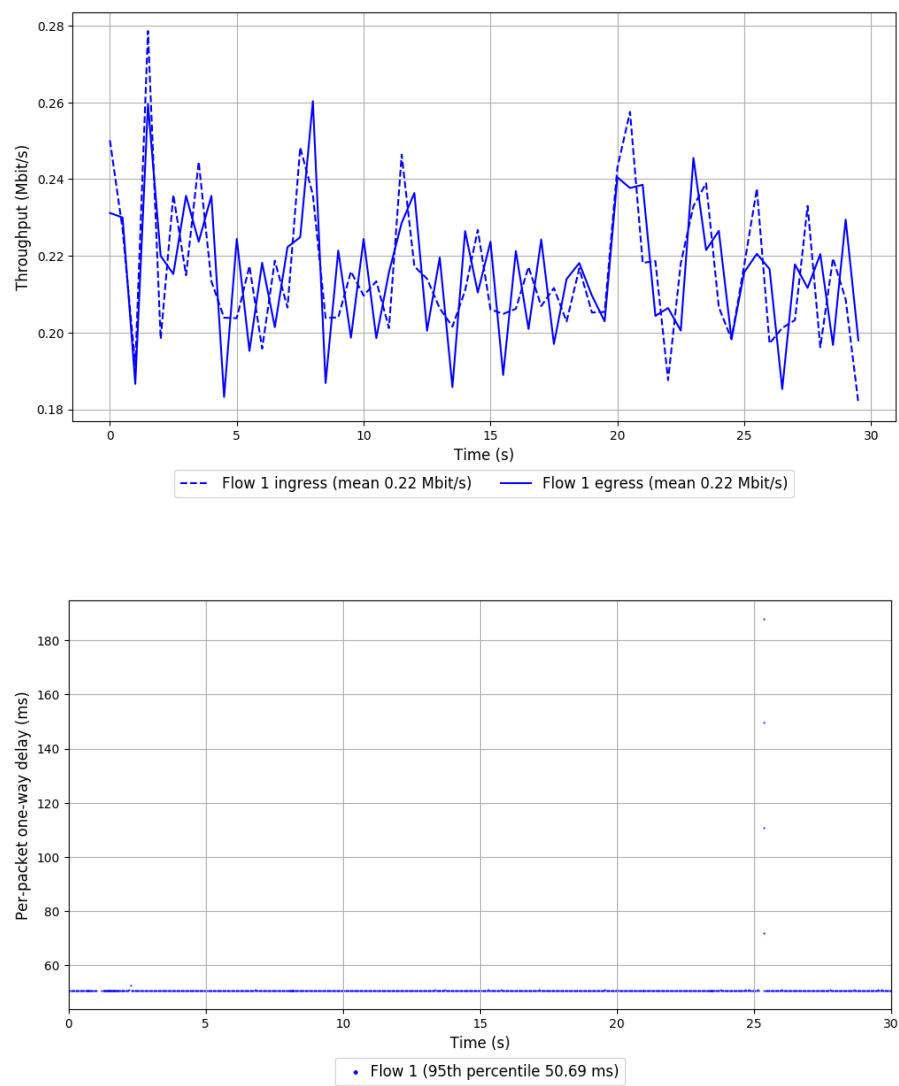
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.693 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2017-10-11 02:05:52

End at: 2017-10-11 02:06:22

Below is generated by plot.py at 2017-10-11 03:46:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.197 ms

Loss rate: 0.00%

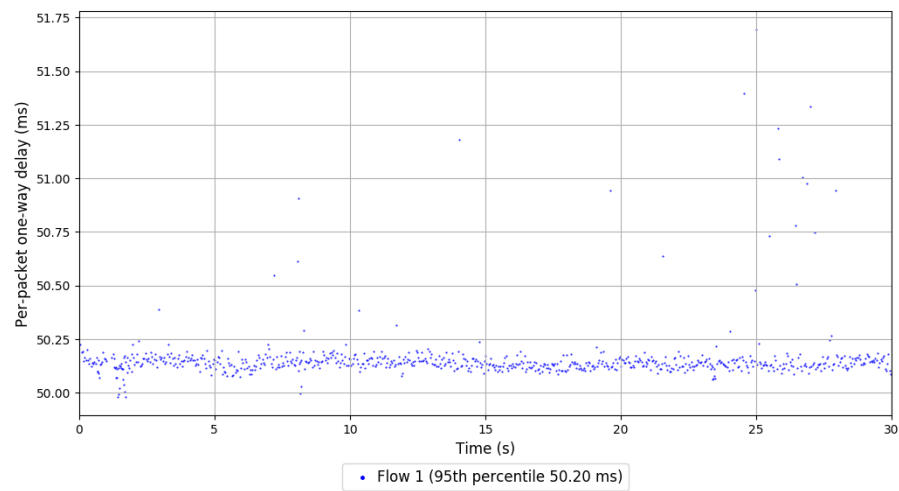
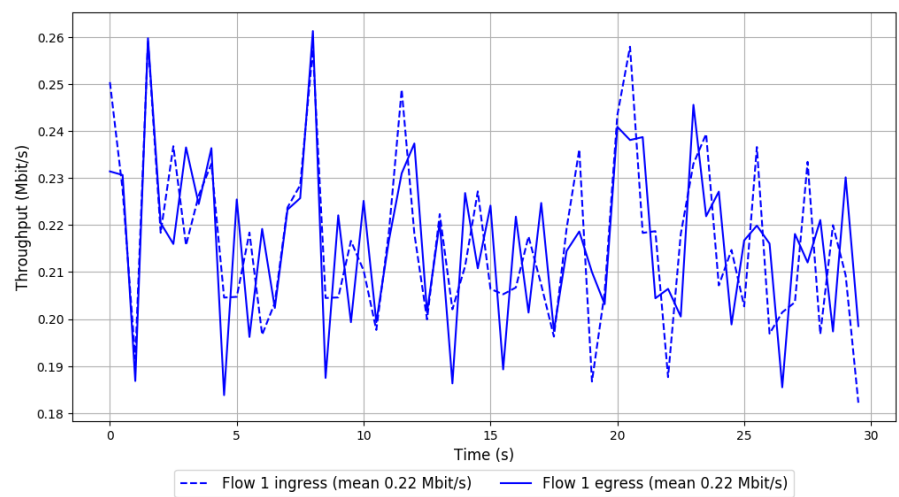
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.197 ms

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link

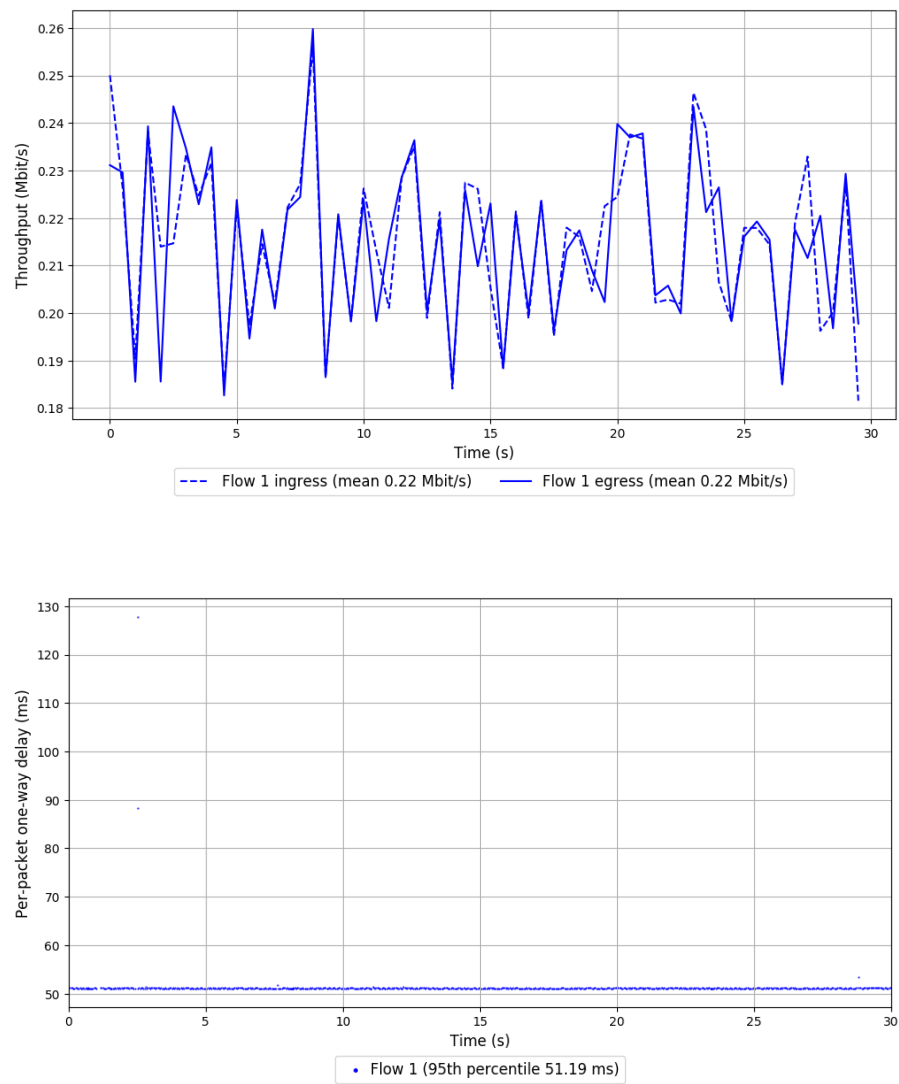


```
Run 10: Statistics of SReAM

Start at: 2017-10-11 02:16:43
End at: 2017-10-11 02:17:13

# Below is generated by plot.py at 2017-10-11 03:46:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 51.187 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 51.187 ms
Loss rate: 0.00%
```

Run 10: Report of SReAM — Data Link

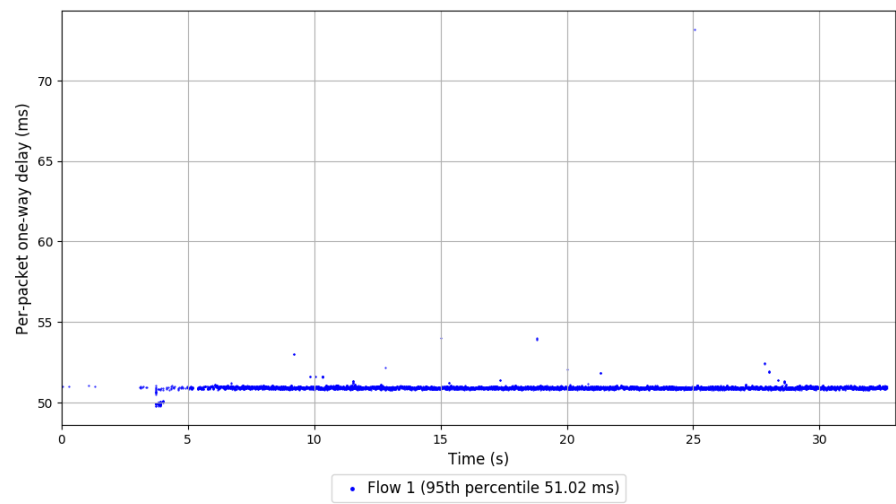
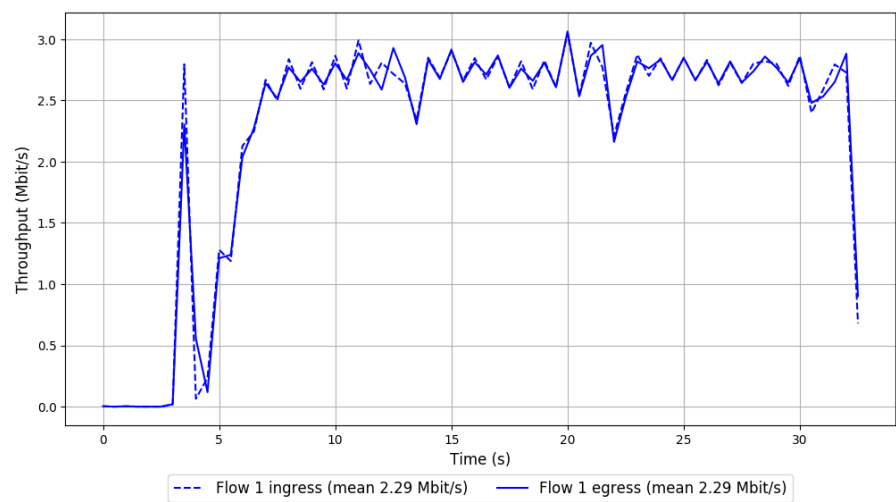


```
Run 1: Statistics of WebRTC media

Start at: 2017-10-11 00:42:52
End at: 2017-10-11 00:43:22

# Below is generated by plot.py at 2017-10-11 03:46:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.29 Mbit/s
95th percentile per-packet one-way delay: 51.020 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.29 Mbit/s
95th percentile per-packet one-way delay: 51.020 ms
Loss rate: 0.00%
```


Run 1: Report of WebRTC media — Data Link

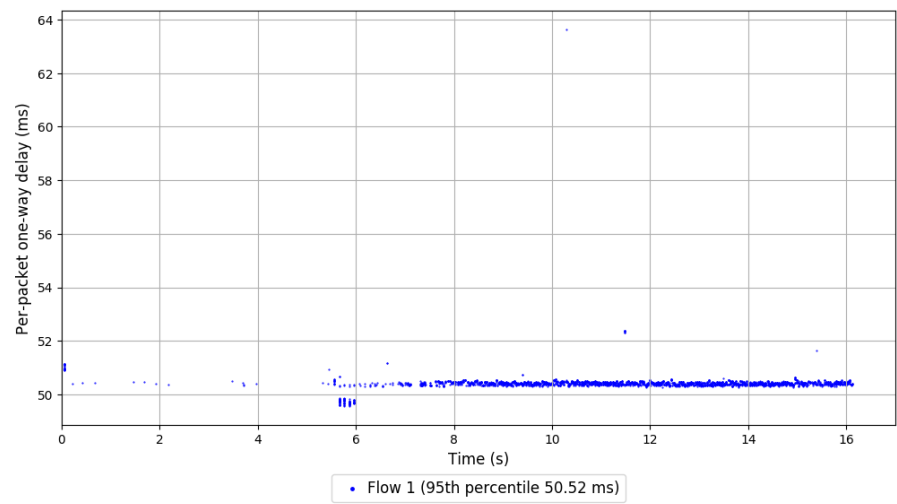
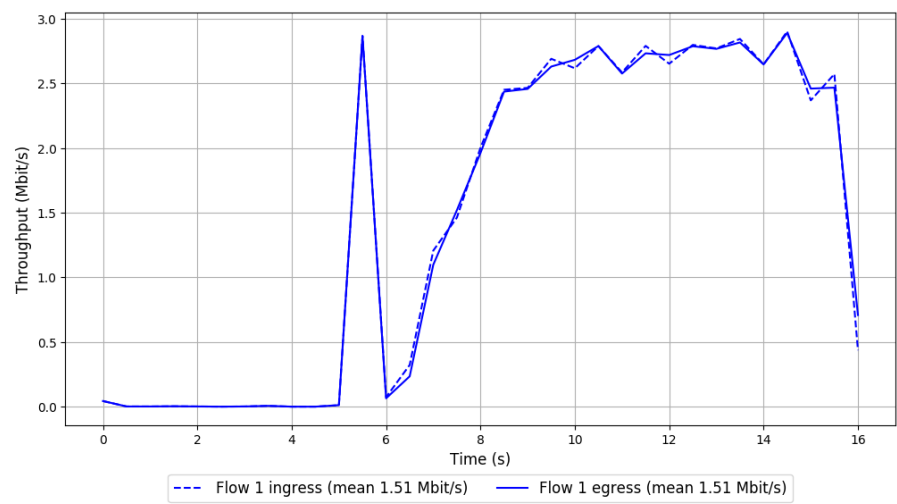


Run 2: Statistics of WebRTC media

Start at: 2017-10-11 00:53:37

End at: 2017-10-11 00:54:07

Run 2: Report of WebRTC media — Data Link

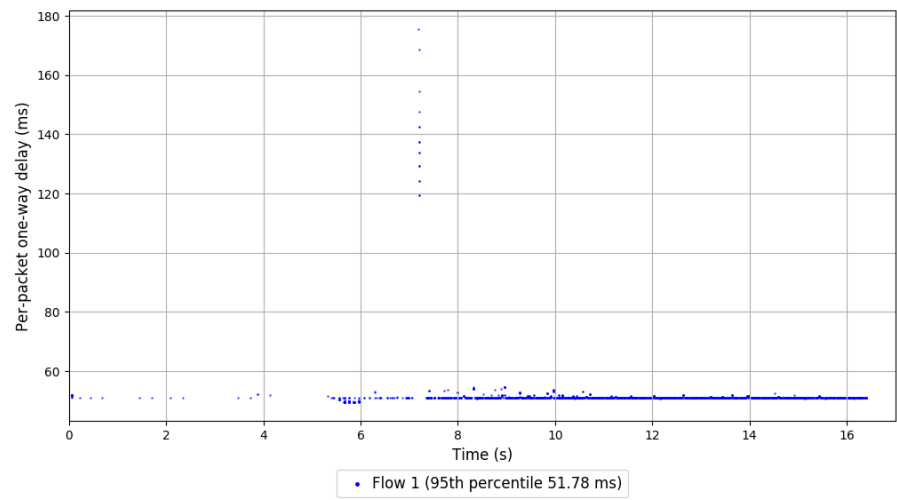
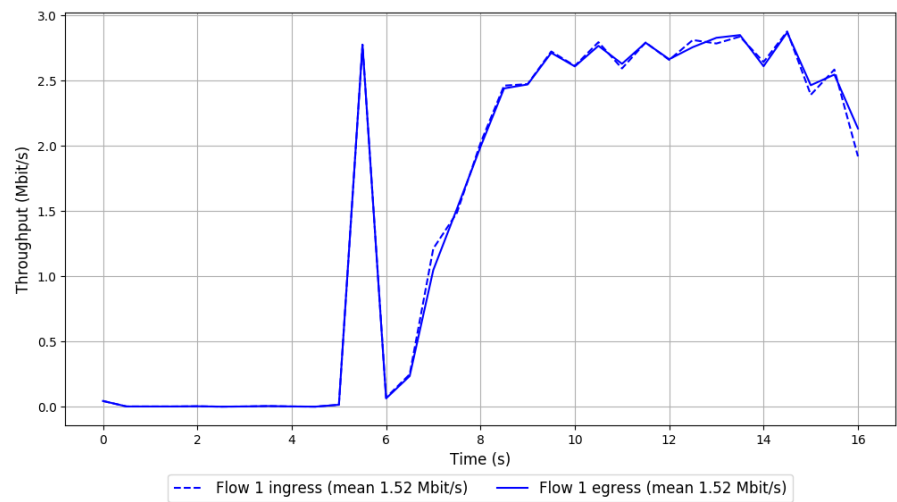


Run 3: Statistics of WebRTC media

Start at: 2017-10-11 01:04:24

End at: 2017-10-11 01:04:54

Run 3: Report of WebRTC media — Data Link

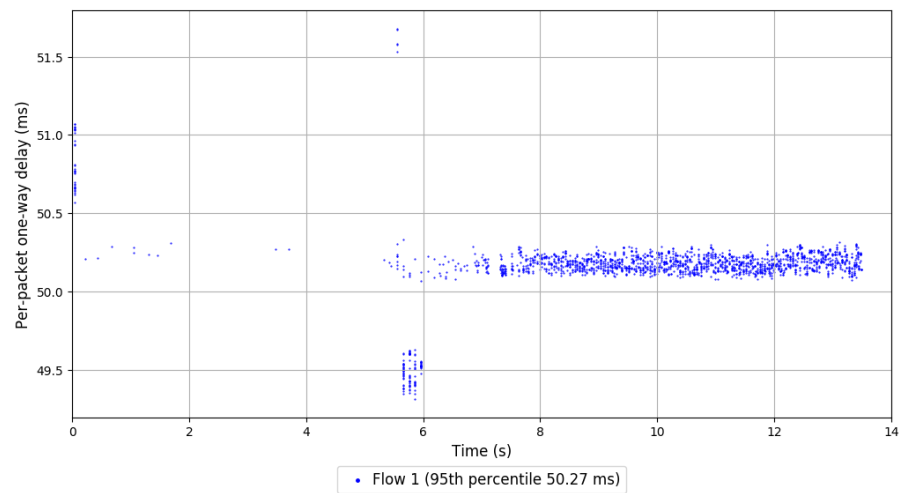
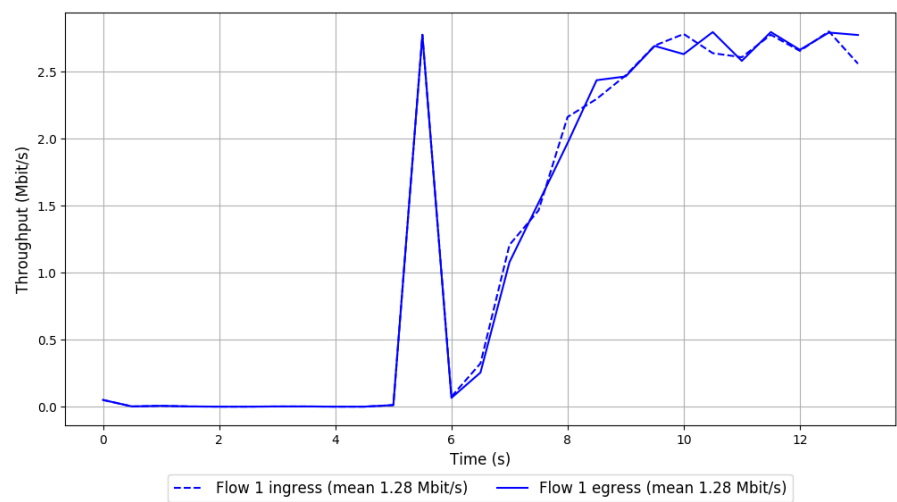


Run 4: Statistics of WebRTC media

Start at: 2017-10-11 01:15:06

End at: 2017-10-11 01:15:37

Run 4: Report of WebRTC media — Data Link

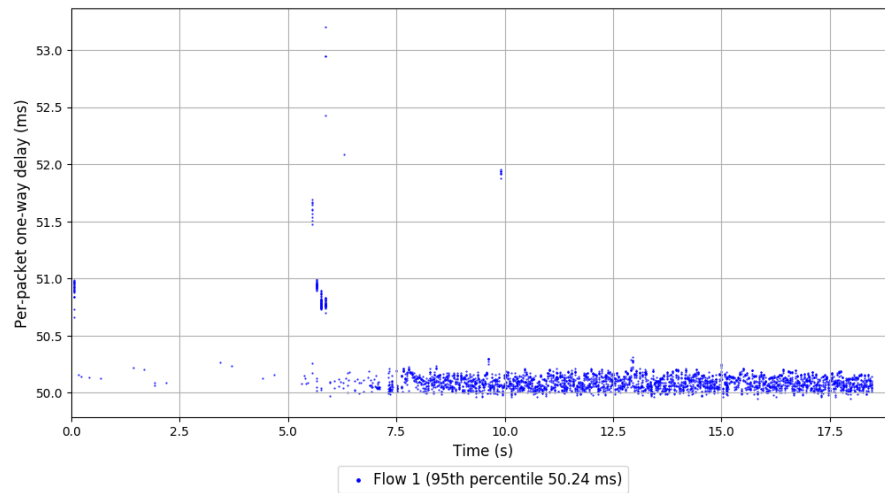
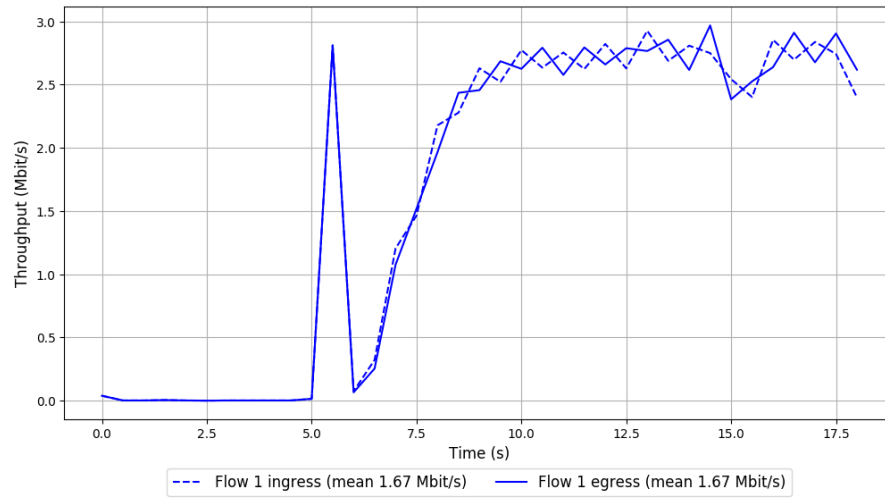


Run 5: Statistics of WebRTC media

Start at: 2017-10-11 01:25:55

End at: 2017-10-11 01:26:25

Run 5: Report of WebRTC media — Data Link

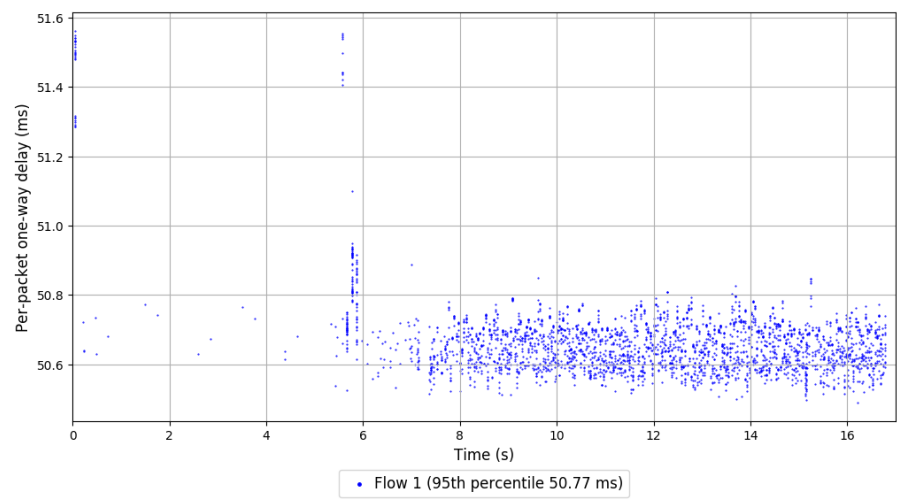
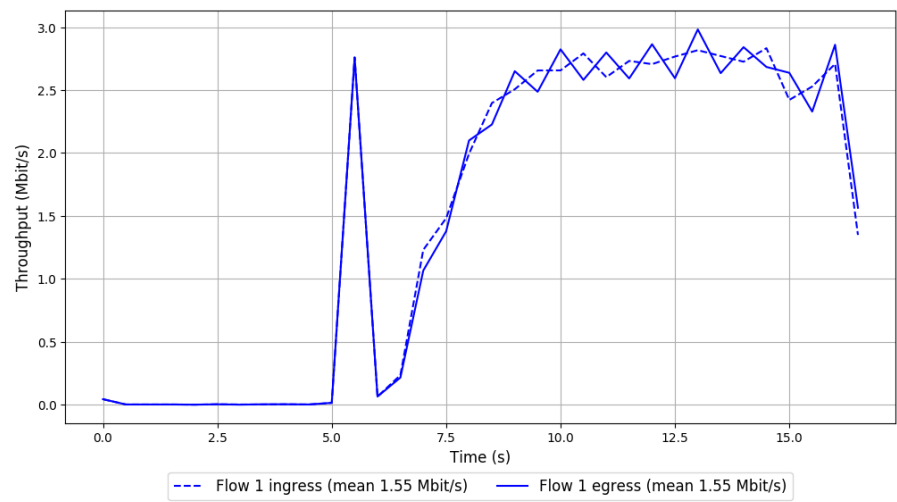


Run 6: Statistics of WebRTC media

Start at: 2017-10-11 01:36:38

End at: 2017-10-11 01:37:08

Run 6: Report of WebRTC media — Data Link

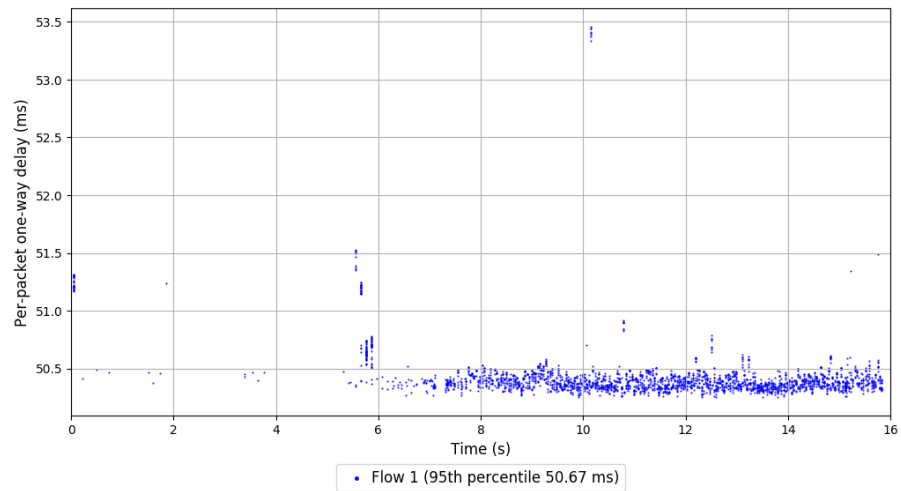
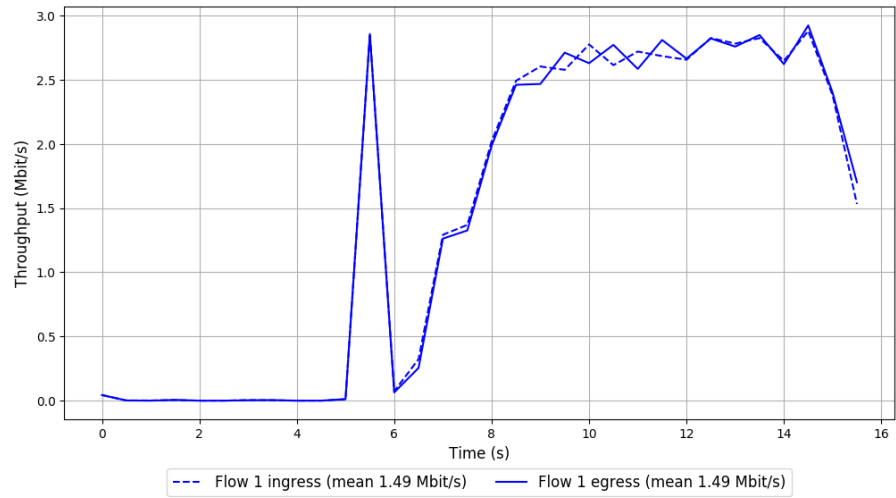


Run 7: Statistics of WebRTC media

Start at: 2017-10-11 01:47:18

End at: 2017-10-11 01:47:48

Run 7: Report of WebRTC media — Data Link

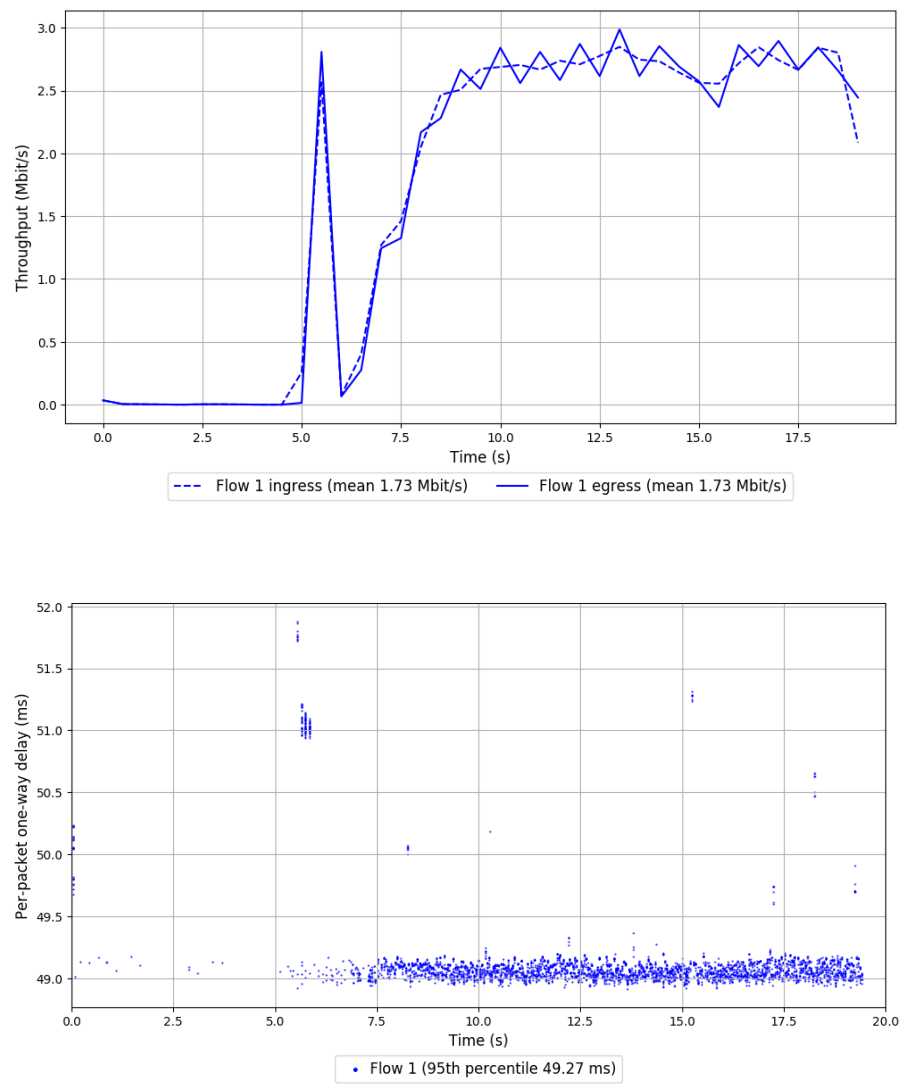


Run 8: Statistics of WebRTC media

Start at: 2017-10-11 01:58:09

End at: 2017-10-11 01:58:39

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2017-10-11 02:08:40

End at: 2017-10-11 02:09:10

Below is generated by plot.py at 2017-10-11 03:46:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 50.190 ms

Loss rate: 0.00%

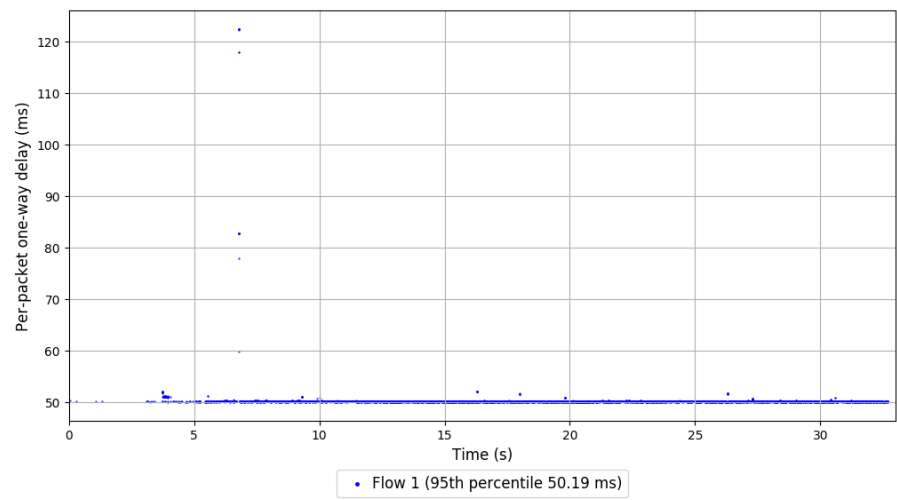
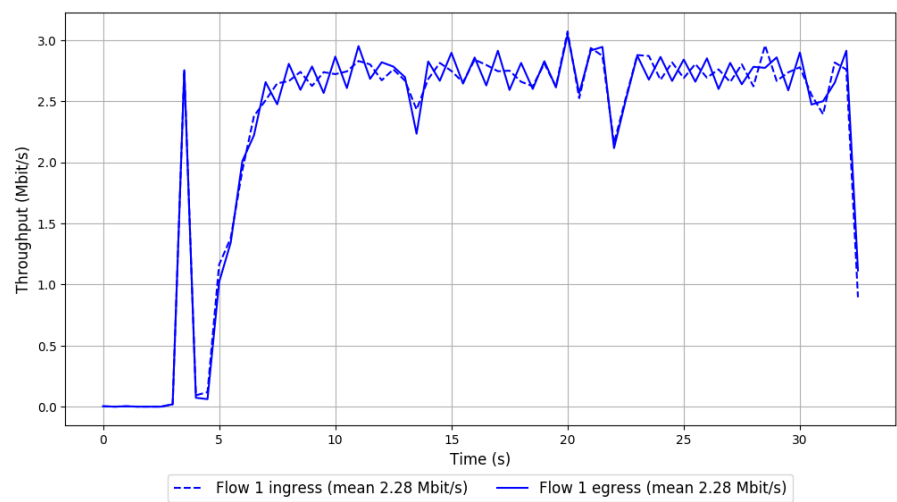
-- Flow 1:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 50.190 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link

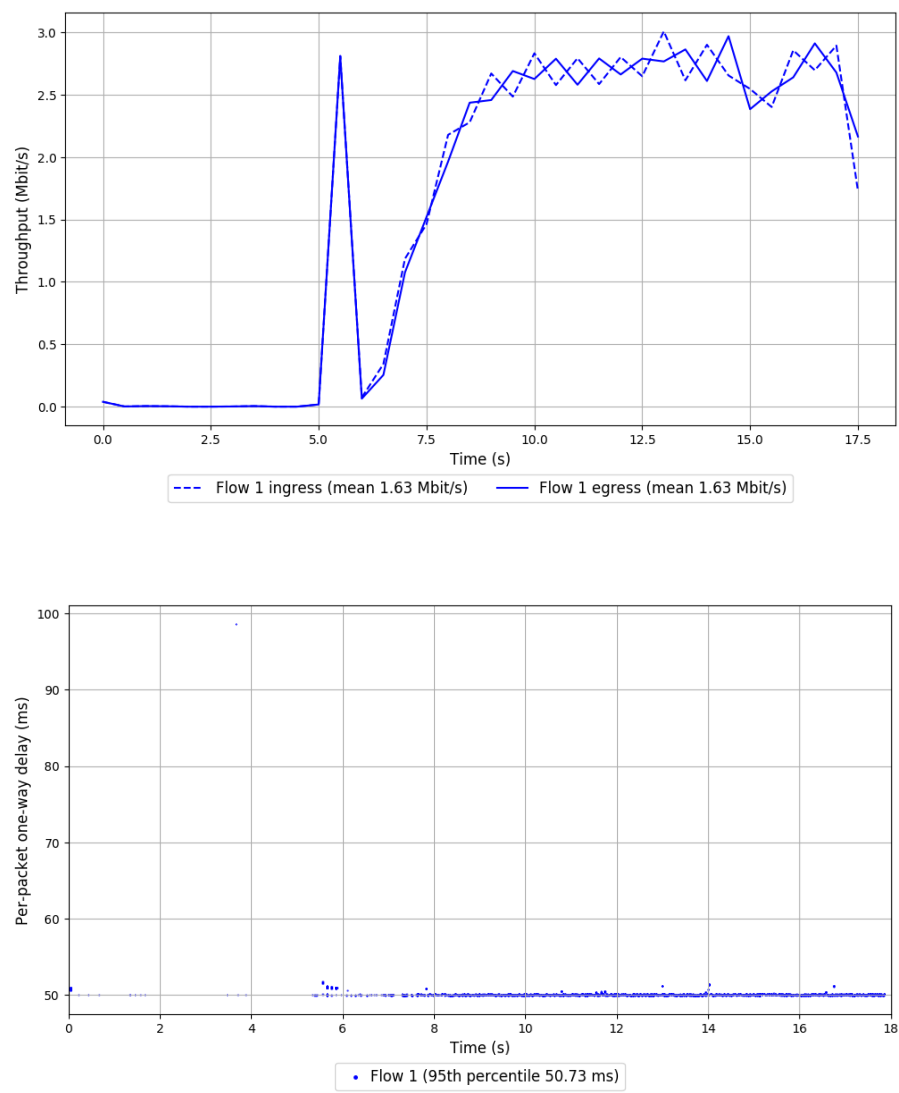


Run 10: Statistics of WebRTC media

Start at: 2017-10-11 02:19:29

End at: 2017-10-11 02:19:59

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2017-10-11 00:41:24

End at: 2017-10-11 00:41:54

Below is generated by plot.py at 2017-10-11 03:46:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.87 Mbit/s

95th percentile per-packet one-way delay: 50.671 ms

Loss rate: 0.02%

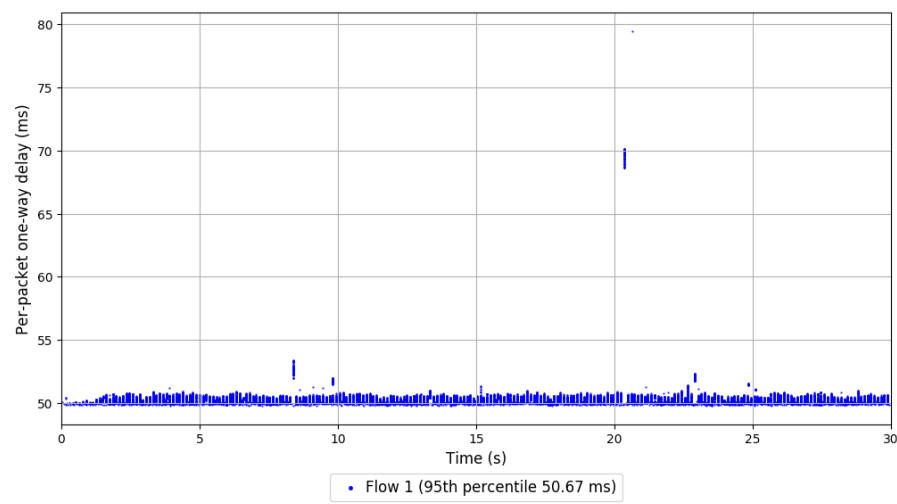
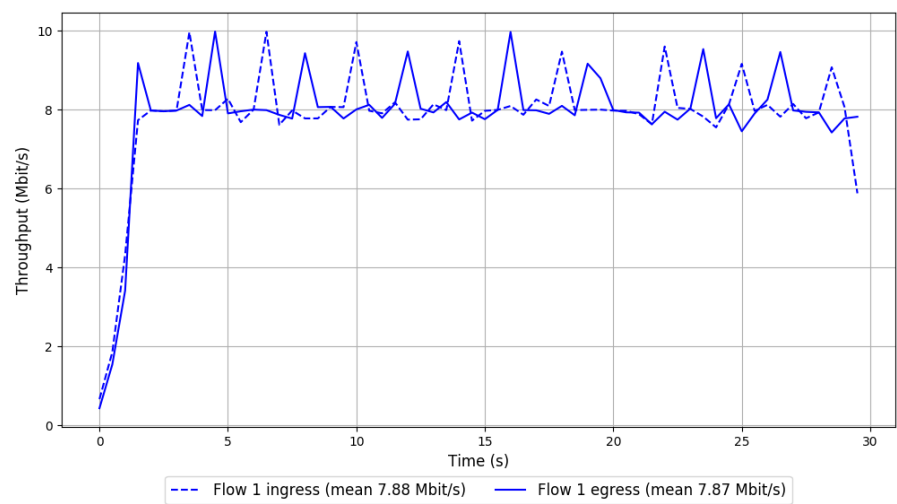
-- Flow 1:

Average throughput: 7.87 Mbit/s

95th percentile per-packet one-way delay: 50.671 ms

Loss rate: 0.02%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2017-10-11 00:52:10

End at: 2017-10-11 00:52:40

Below is generated by plot.py at 2017-10-11 03:46:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 8.01 Mbit/s

95th percentile per-packet one-way delay: 50.935 ms

Loss rate: 0.04%

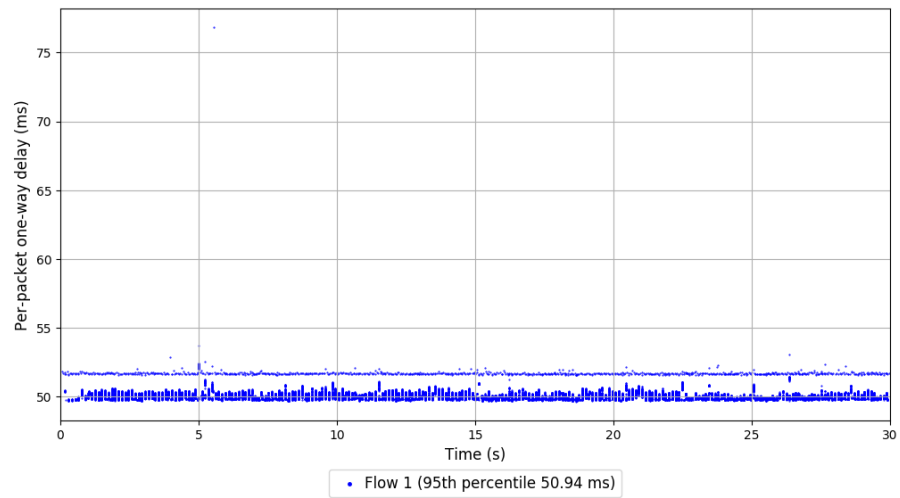
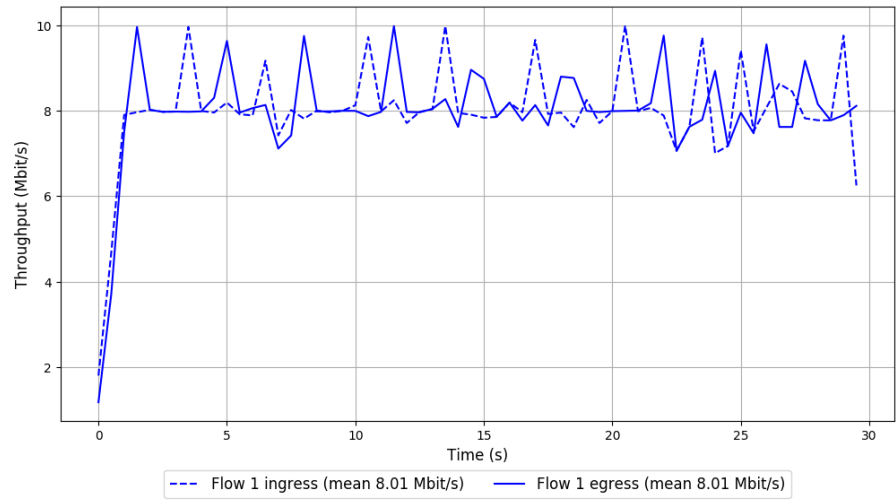
-- Flow 1:

Average throughput: 8.01 Mbit/s

95th percentile per-packet one-way delay: 50.935 ms

Loss rate: 0.04%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2017-10-11 01:02:57

End at: 2017-10-11 01:03:27

Below is generated by plot.py at 2017-10-11 03:46:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 8.02 Mbit/s

95th percentile per-packet one-way delay: 50.270 ms

Loss rate: 0.07%

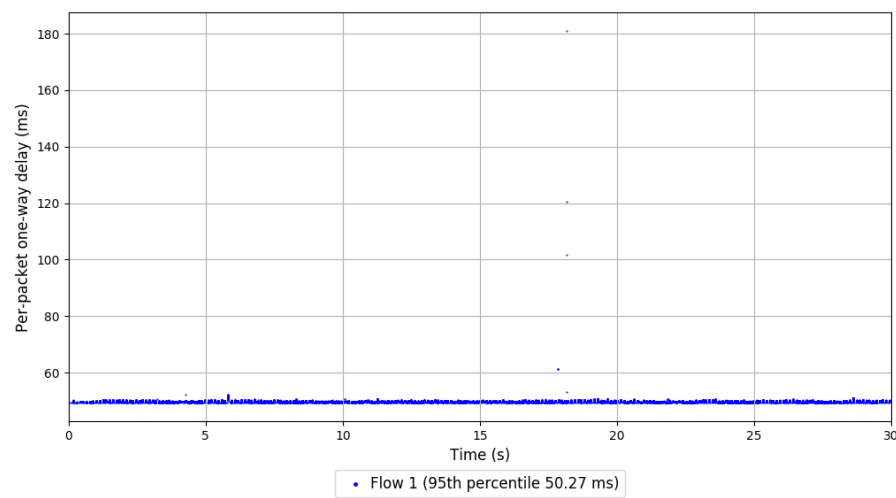
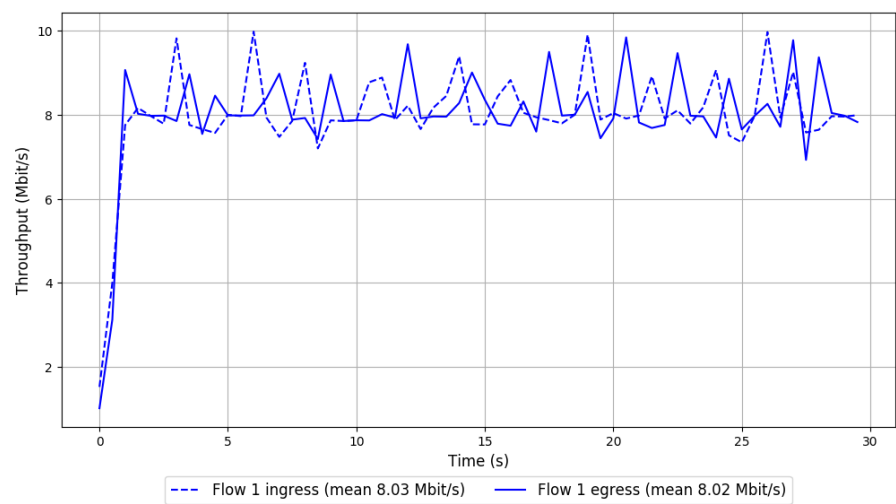
-- Flow 1:

Average throughput: 8.02 Mbit/s

95th percentile per-packet one-way delay: 50.270 ms

Loss rate: 0.07%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2017-10-11 01:13:40

End at: 2017-10-11 01:14:10

Below is generated by plot.py at 2017-10-11 03:46:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 8.00 Mbit/s

95th percentile per-packet one-way delay: 50.415 ms

Loss rate: 0.01%

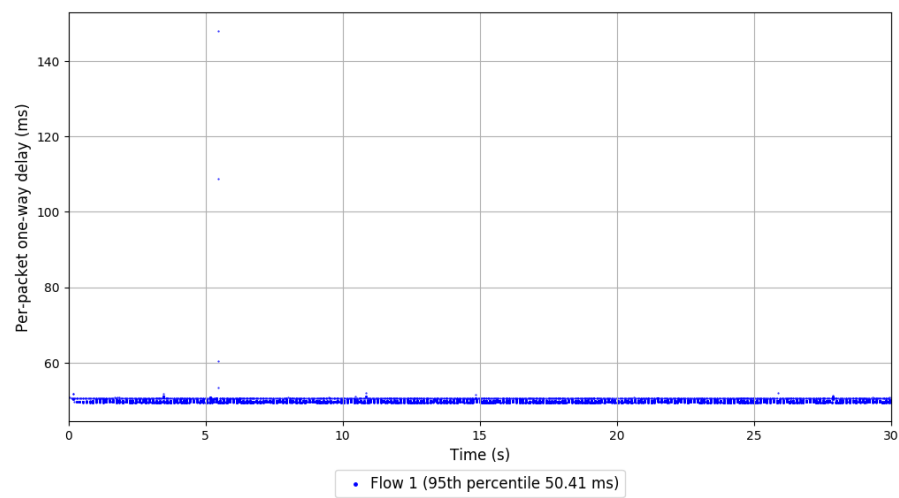
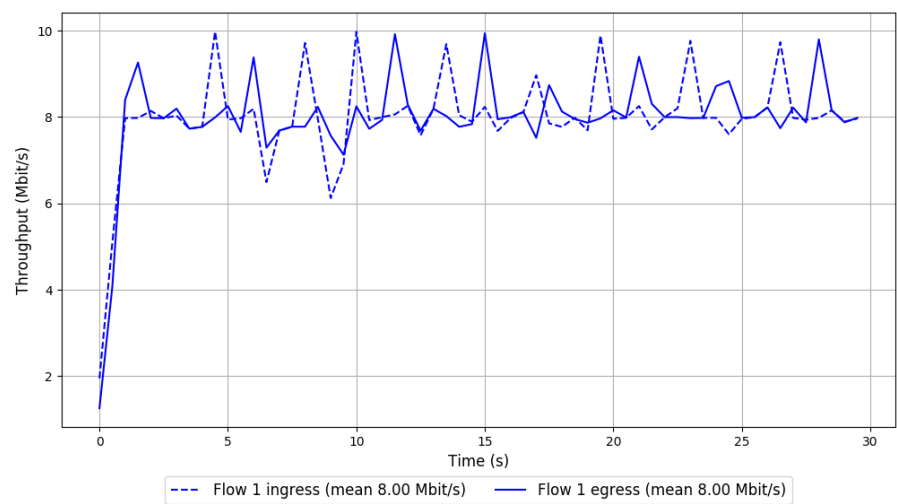
-- Flow 1:

Average throughput: 8.00 Mbit/s

95th percentile per-packet one-way delay: 50.415 ms

Loss rate: 0.01%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2017-10-11 01:24:27

End at: 2017-10-11 01:24:57

Below is generated by plot.py at 2017-10-11 03:46:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.86 Mbit/s

95th percentile per-packet one-way delay: 51.630 ms

Loss rate: 0.03%

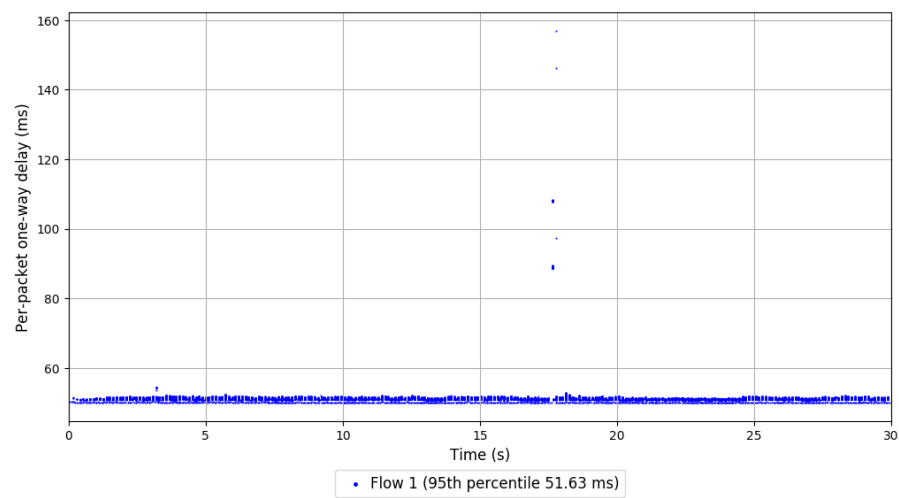
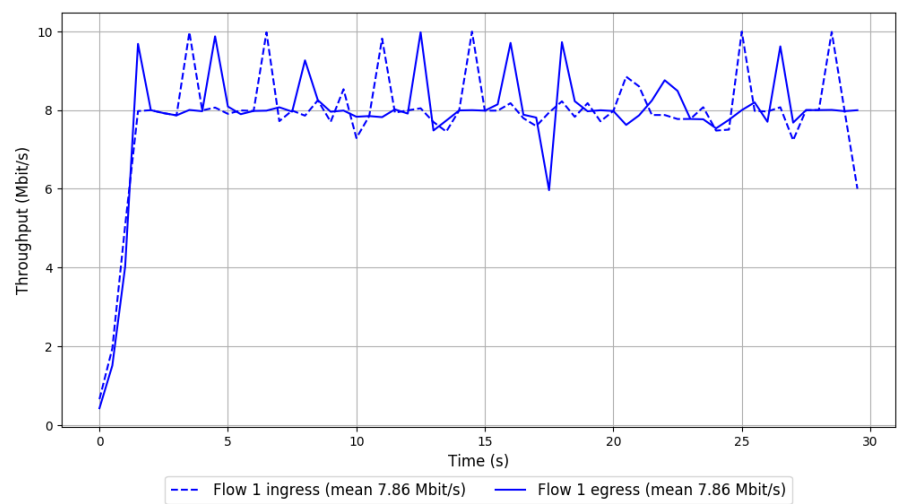
-- Flow 1:

Average throughput: 7.86 Mbit/s

95th percentile per-packet one-way delay: 51.630 ms

Loss rate: 0.03%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2017-10-11 01:35:11

End at: 2017-10-11 01:35:41

Below is generated by plot.py at 2017-10-11 03:46:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.96 Mbit/s

95th percentile per-packet one-way delay: 51.408 ms

Loss rate: 0.06%

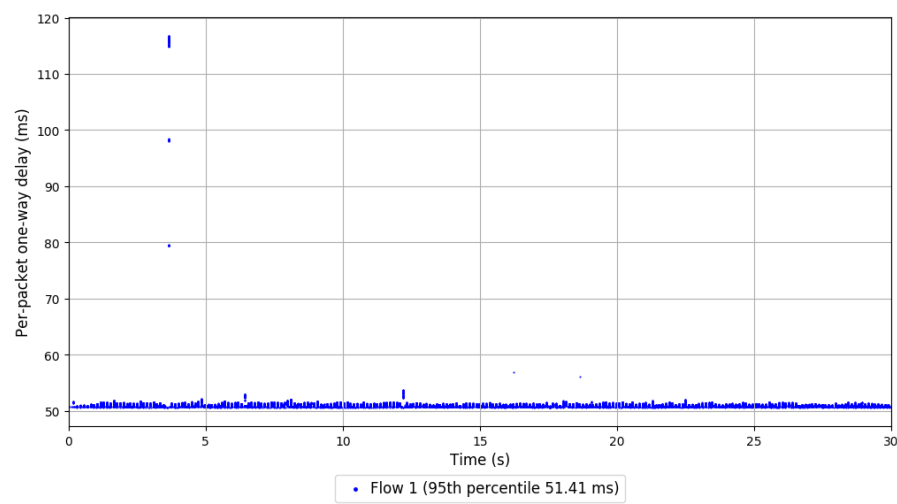
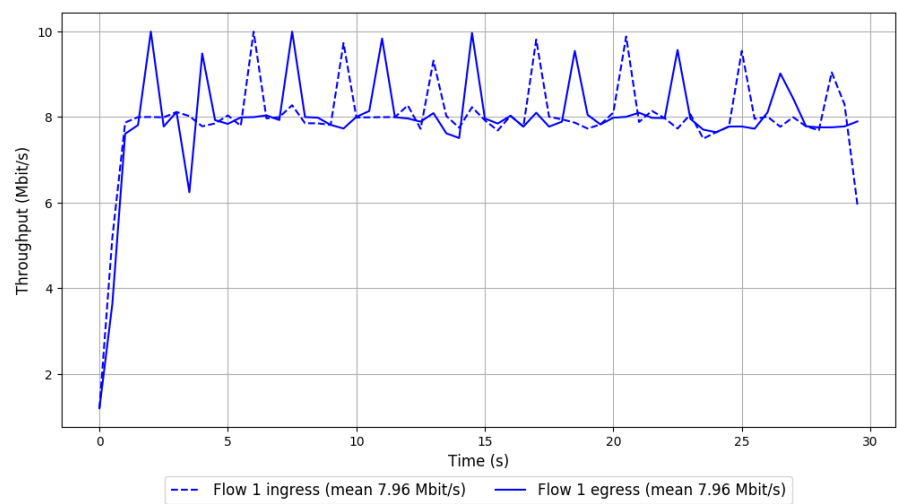
-- Flow 1:

Average throughput: 7.96 Mbit/s

95th percentile per-packet one-way delay: 51.408 ms

Loss rate: 0.06%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2017-10-11 01:45:51

End at: 2017-10-11 01:46:21

Below is generated by plot.py at 2017-10-11 03:46:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.98 Mbit/s

95th percentile per-packet one-way delay: 51.361 ms

Loss rate: 0.05%

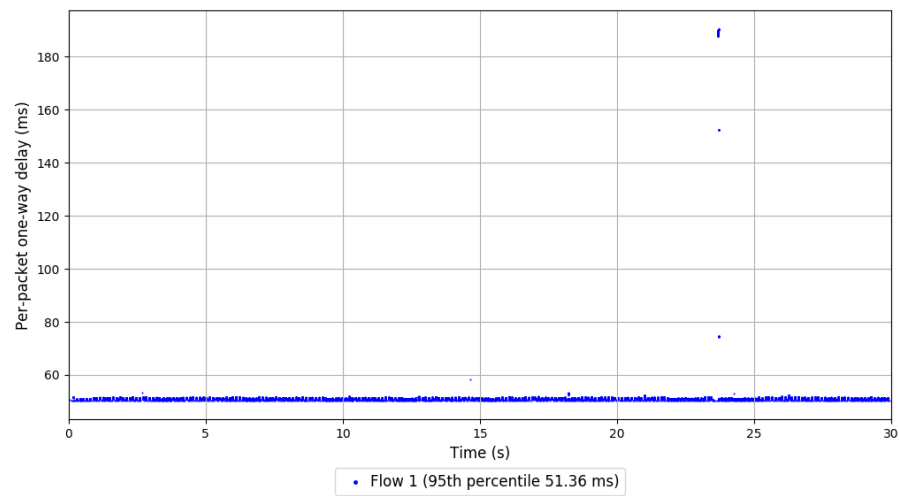
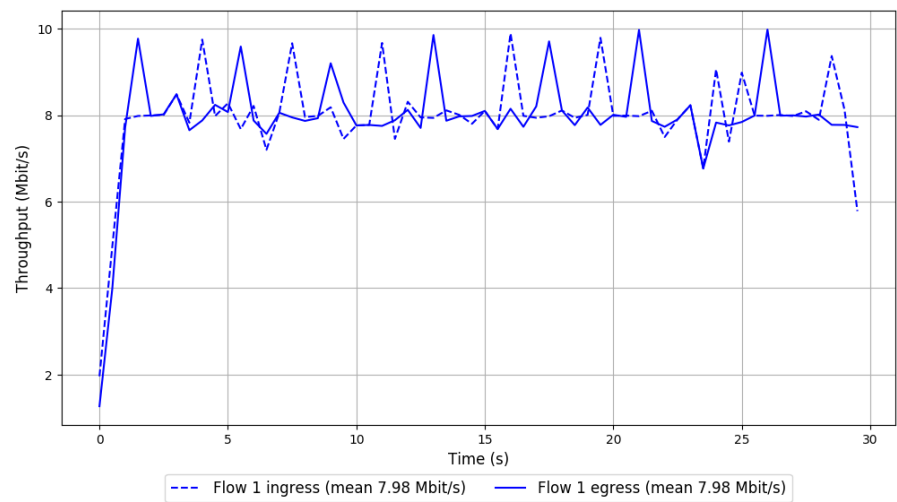
-- Flow 1:

Average throughput: 7.98 Mbit/s

95th percentile per-packet one-way delay: 51.361 ms

Loss rate: 0.05%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2017-10-11 01:56:41

End at: 2017-10-11 01:57:11

Below is generated by plot.py at 2017-10-11 03:46:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.90 Mbit/s

95th percentile per-packet one-way delay: 51.738 ms

Loss rate: 0.01%

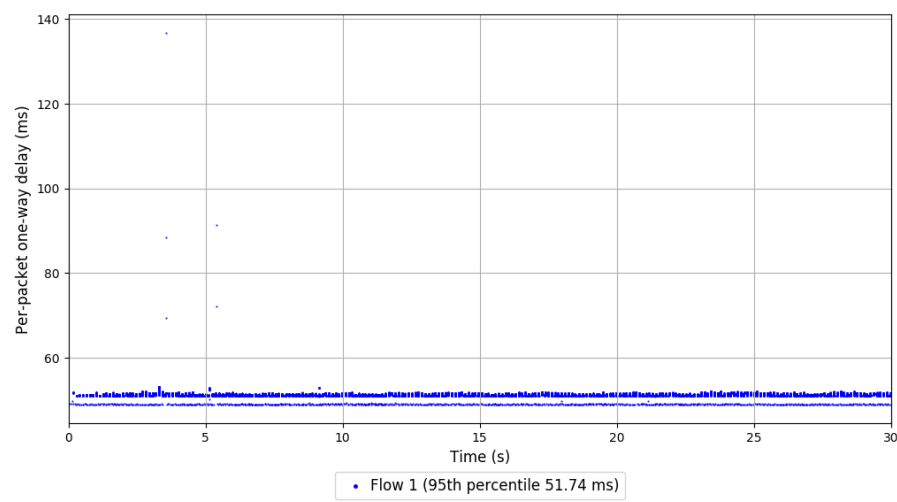
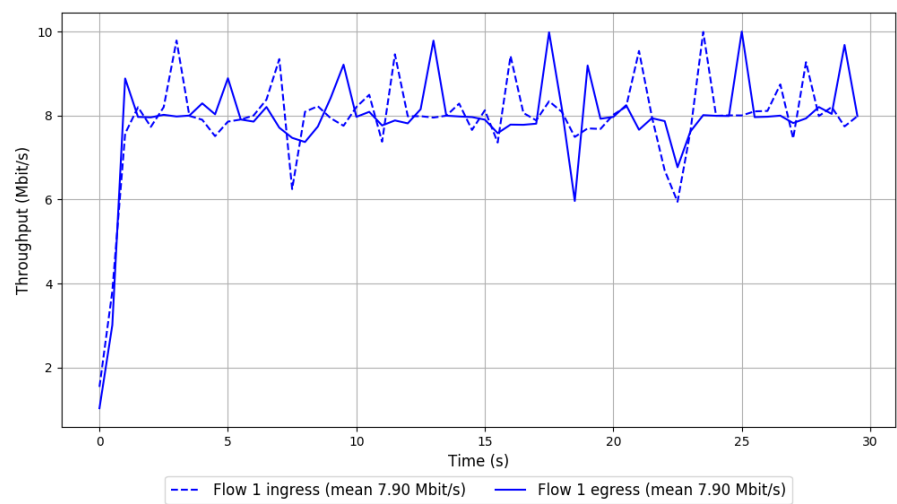
-- Flow 1:

Average throughput: 7.90 Mbit/s

95th percentile per-packet one-way delay: 51.738 ms

Loss rate: 0.01%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2017-10-11 02:07:13

End at: 2017-10-11 02:07:43

Below is generated by plot.py at 2017-10-11 03:46:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.89 Mbit/s

95th percentile per-packet one-way delay: 51.740 ms

Loss rate: 0.00%

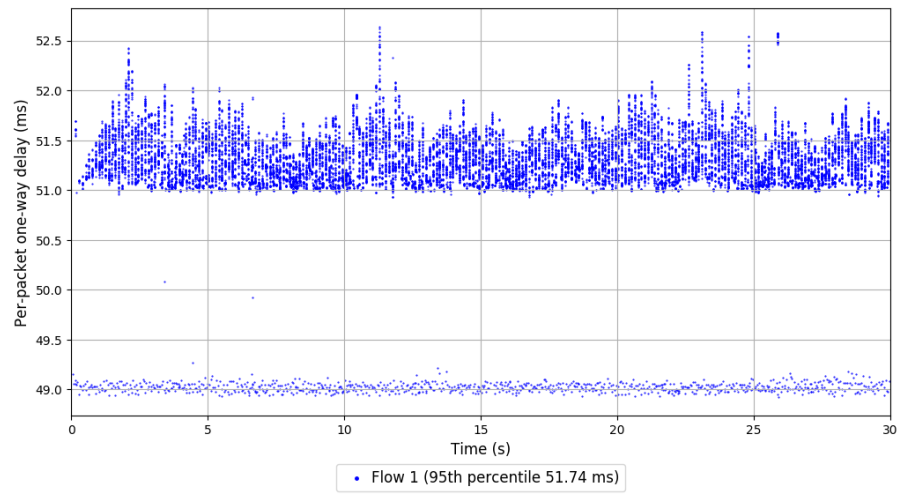
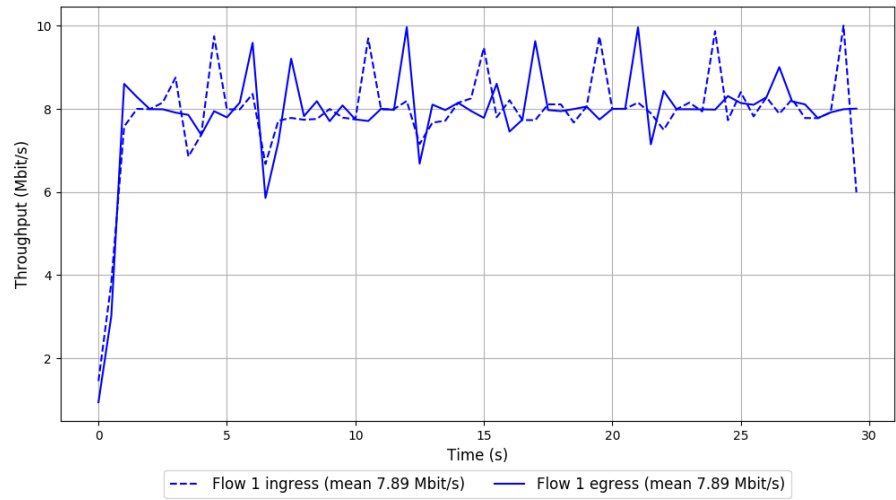
-- Flow 1:

Average throughput: 7.89 Mbit/s

95th percentile per-packet one-way delay: 51.740 ms

Loss rate: 0.00%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2017-10-11 02:18:02

End at: 2017-10-11 02:18:32

Below is generated by plot.py at 2017-10-11 03:46:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.90 Mbit/s

95th percentile per-packet one-way delay: 51.754 ms

Loss rate: 0.04%

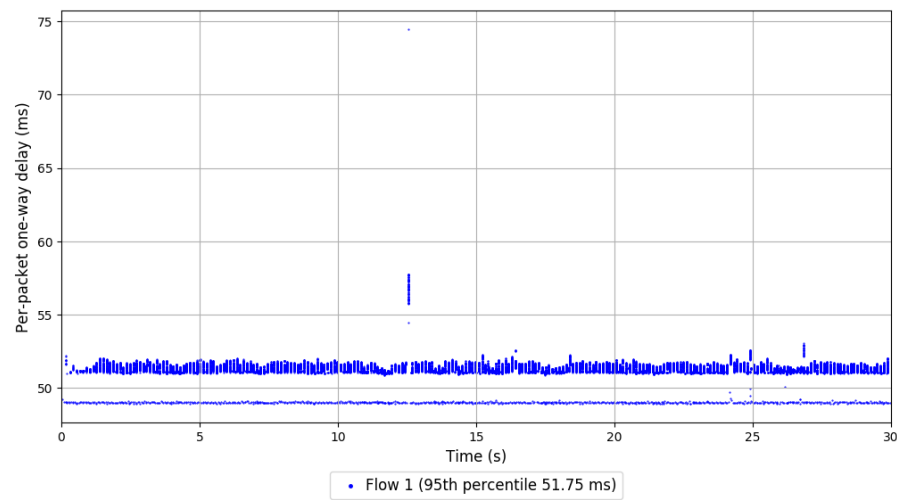
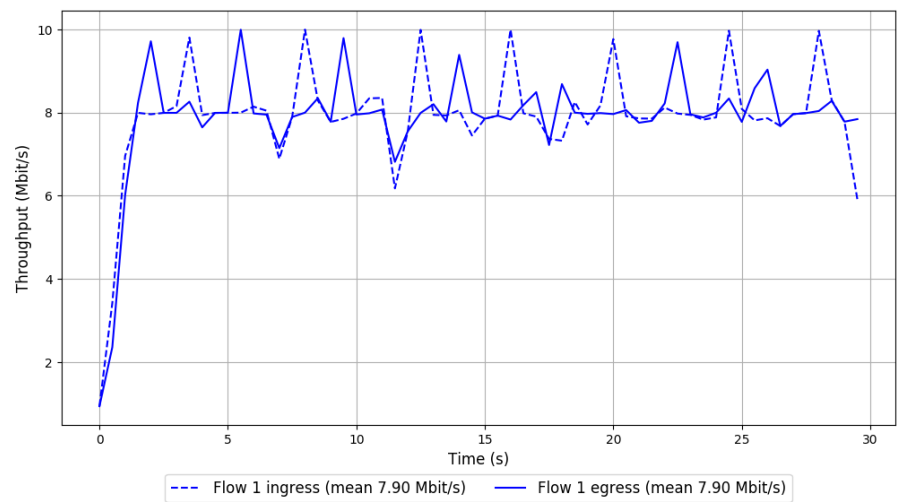
-- Flow 1:

Average throughput: 7.90 Mbit/s

95th percentile per-packet one-way delay: 51.754 ms

Loss rate: 0.04%

Run 10: Report of Sprout — Data Link

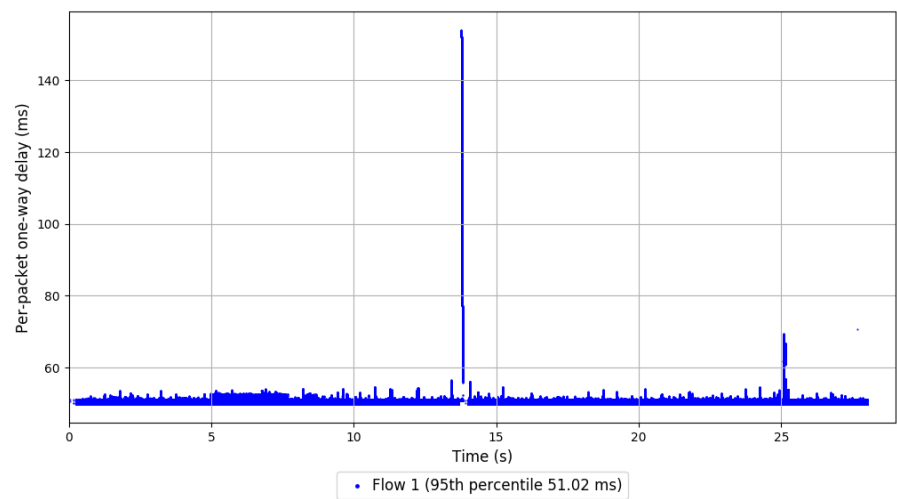
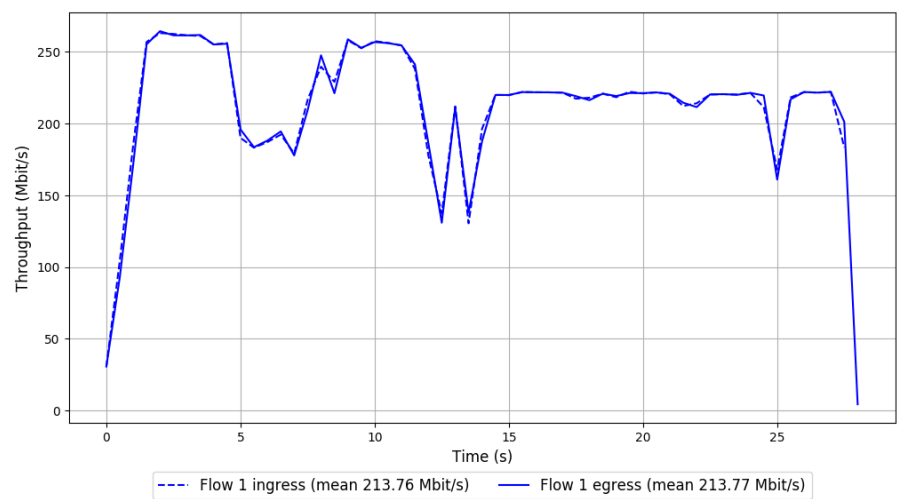


```
Run 1: Statistics of TaoVA-100x

Start at: 2017-10-11 00:34:59
End at: 2017-10-11 00:35:29

# Below is generated by plot.py at 2017-10-11 03:46:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 213.77 Mbit/s
95th percentile per-packet one-way delay: 51.015 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 213.77 Mbit/s
95th percentile per-packet one-way delay: 51.015 ms
Loss rate: 0.00%
```


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

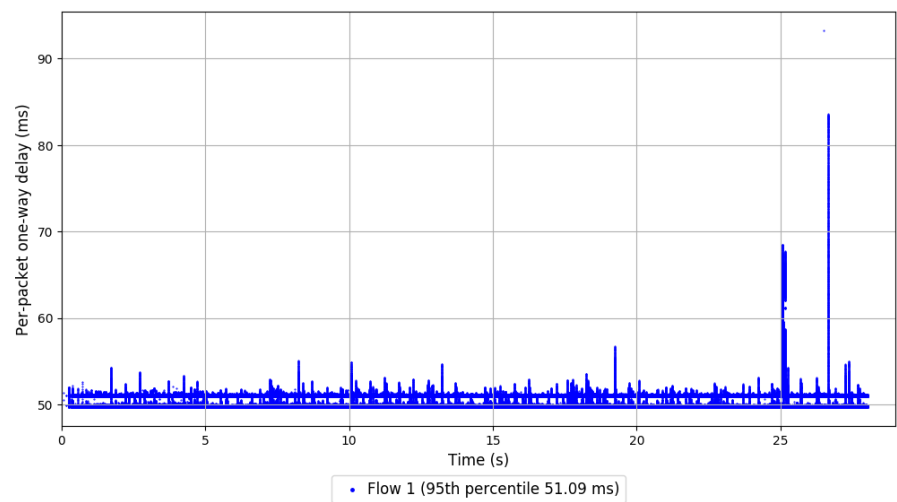
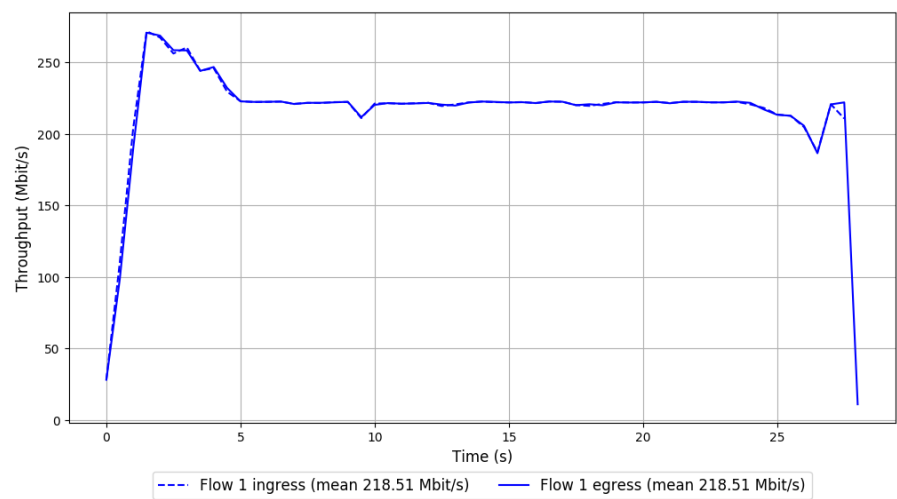


```
Run 2: Statistics of TaoVA-100x

Start at: 2017-10-11 00:45:46
End at: 2017-10-11 00:46:16

# Below is generated by plot.py at 2017-10-11 03:46:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 218.51 Mbit/s
95th percentile per-packet one-way delay: 51.088 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 218.51 Mbit/s
95th percentile per-packet one-way delay: 51.088 ms
Loss rate: 0.00%
```

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



Run 3: Statistics of TaoVA-100x

Start at: 2017-10-11 00:56:31

End at: 2017-10-11 00:57:01

Below is generated by plot.py at 2017-10-11 03:47:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 235.57 Mbit/s

95th percentile per-packet one-way delay: 50.969 ms

Loss rate: 0.00%

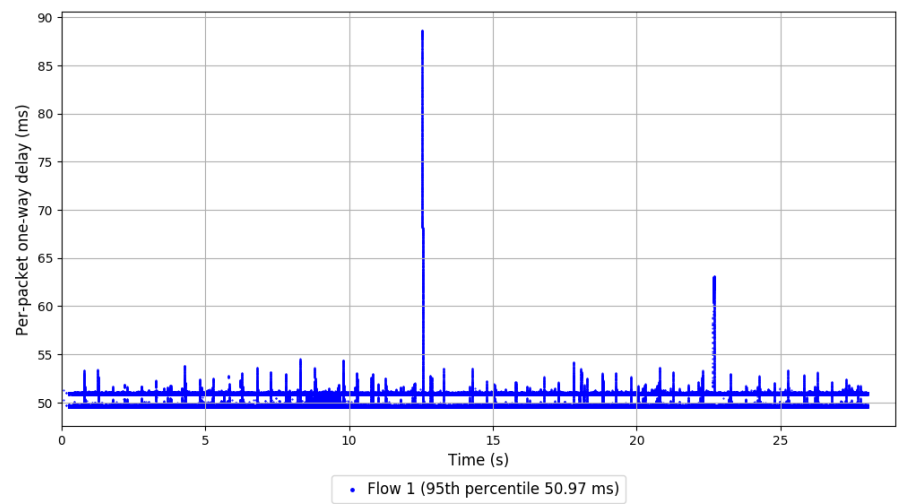
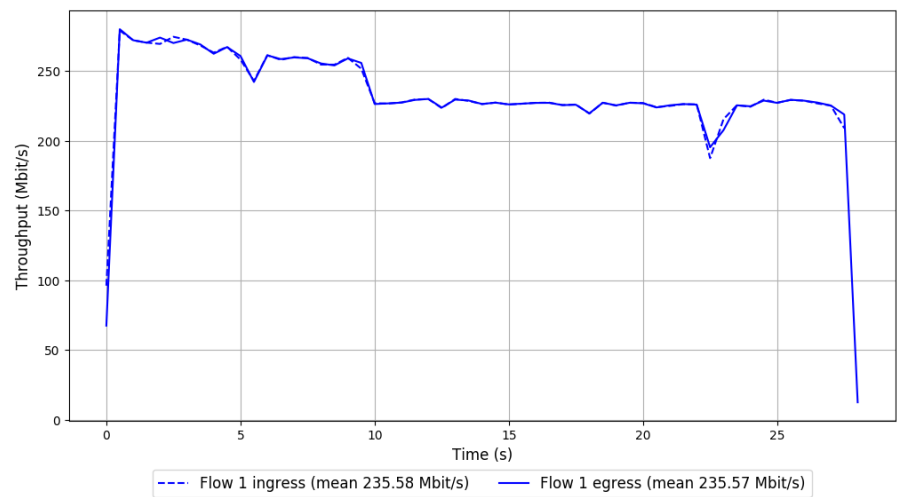
-- Flow 1:

Average throughput: 235.57 Mbit/s

95th percentile per-packet one-way delay: 50.969 ms

Loss rate: 0.00%

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

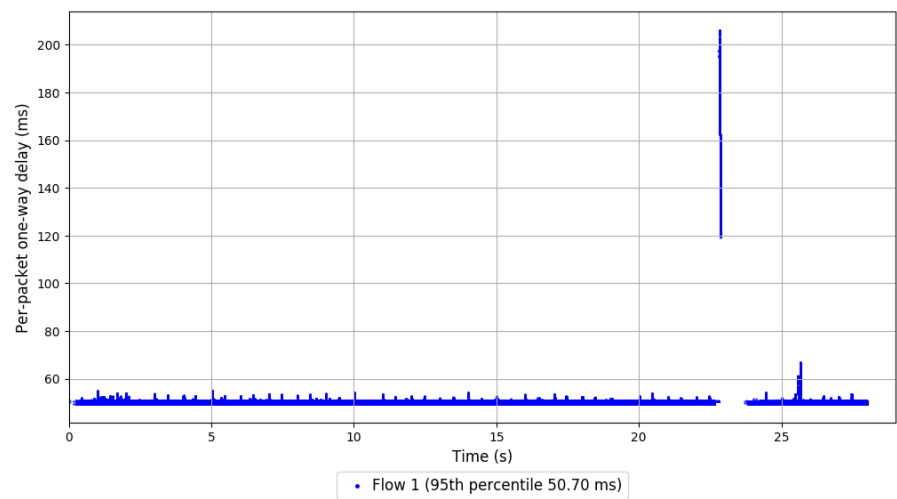
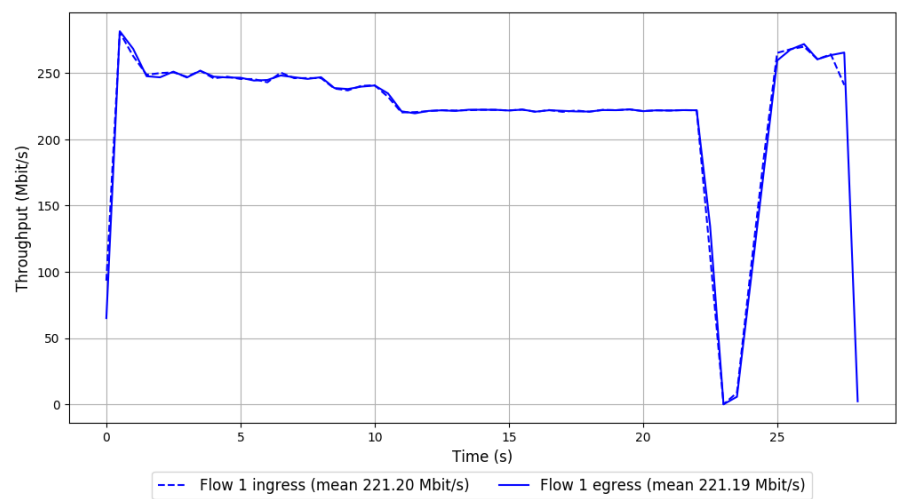


```
Run 4: Statistics of TaoVA-100x

Start at: 2017-10-11 01:07:20
End at: 2017-10-11 01:07:50

# Below is generated by plot.py at 2017-10-11 03:47:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 221.19 Mbit/s
95th percentile per-packet one-way delay: 50.696 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 221.19 Mbit/s
95th percentile per-packet one-way delay: 50.696 ms
Loss rate: 0.00%
```

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



Run 5: Statistics of TaoVA-100x

Start at: 2017-10-11 01:18:04

End at: 2017-10-11 01:18:34

Below is generated by plot.py at 2017-10-11 03:47:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 255.50 Mbit/s

95th percentile per-packet one-way delay: 50.340 ms

Loss rate: 0.00%

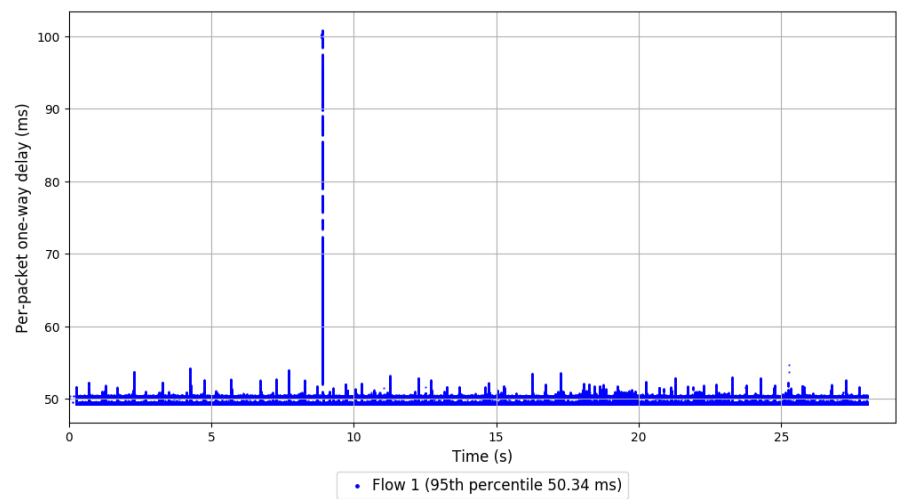
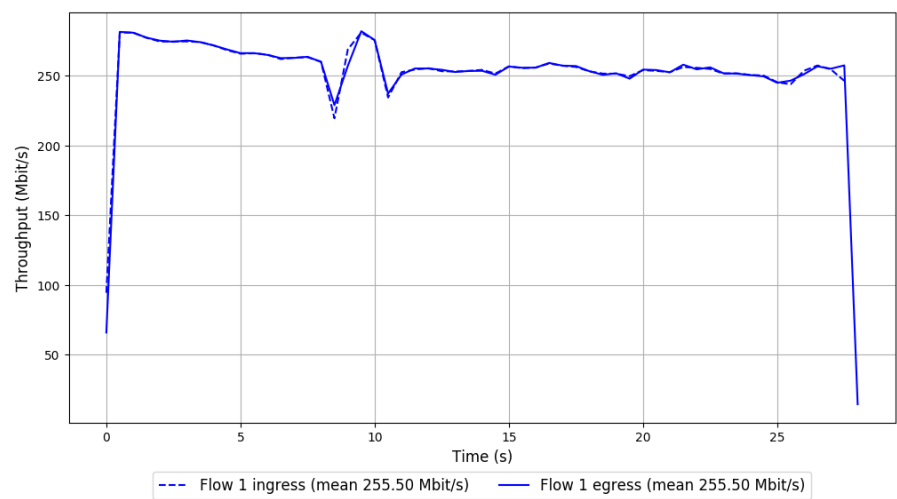
-- Flow 1:

Average throughput: 255.50 Mbit/s

95th percentile per-packet one-way delay: 50.340 ms

Loss rate: 0.00%

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



Run 6: Statistics of TaoVA-100x

Start at: 2017-10-11 01:28:47

End at: 2017-10-11 01:29:17

Below is generated by plot.py at 2017-10-11 03:47:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 252.33 Mbit/s

95th percentile per-packet one-way delay: 50.793 ms

Loss rate: 0.00%

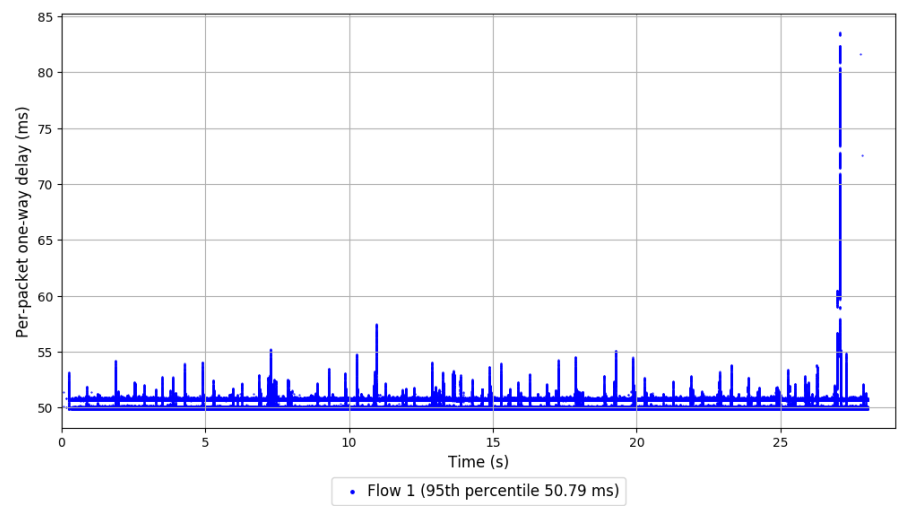
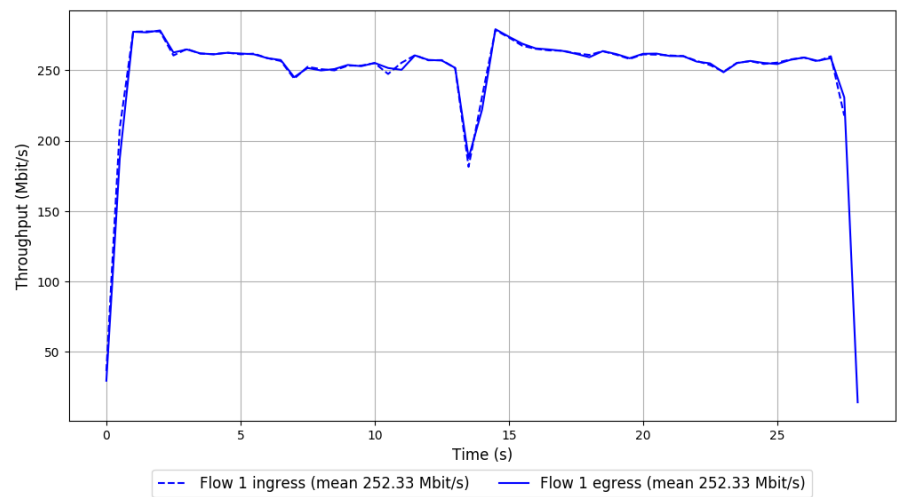
-- Flow 1:

Average throughput: 252.33 Mbit/s

95th percentile per-packet one-way delay: 50.793 ms

Loss rate: 0.00%

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



Run 7: Statistics of TaoVA-100x

Start at: 2017-10-11 01:39:31

End at: 2017-10-11 01:40:01

Below is generated by plot.py at 2017-10-11 03:53:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 246.37 Mbit/s

95th percentile per-packet one-way delay: 50.677 ms

Loss rate: 0.00%

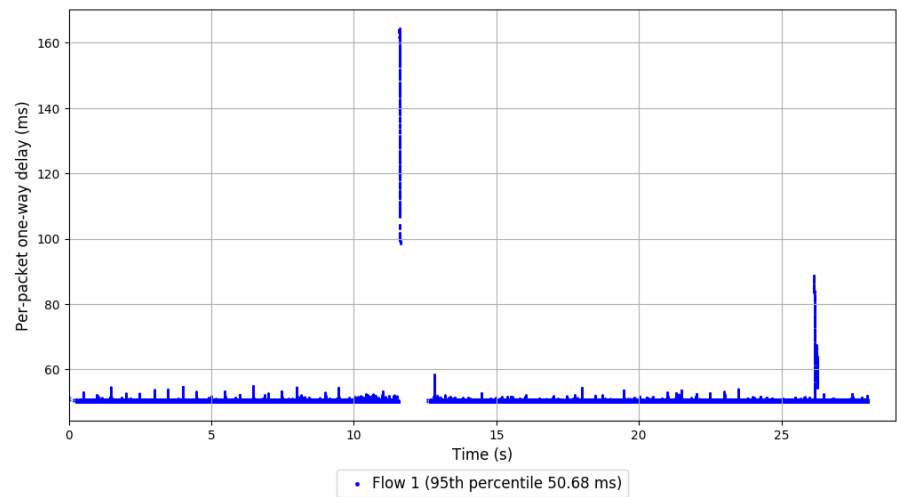
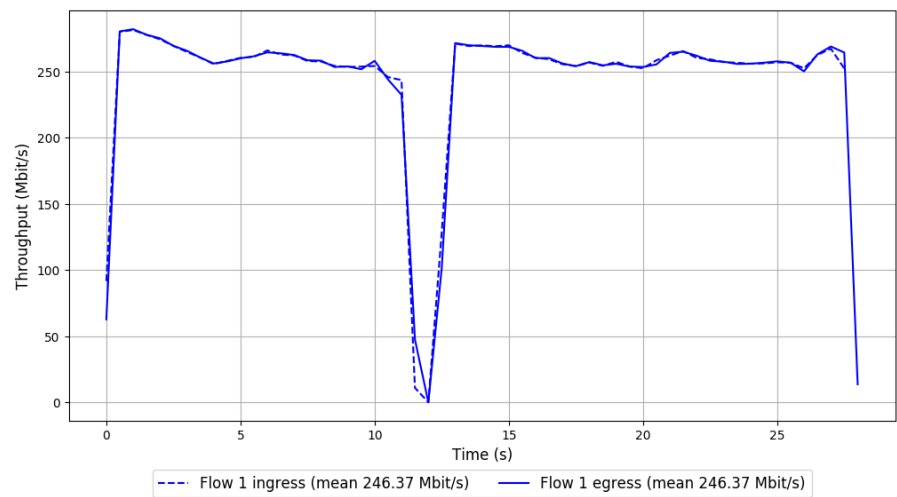
-- Flow 1:

Average throughput: 246.37 Mbit/s

95th percentile per-packet one-way delay: 50.677 ms

Loss rate: 0.00%

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



Run 8: Statistics of TaoVA-100x

Start at: 2017-10-11 01:50:14

End at: 2017-10-11 01:50:44

Below is generated by plot.py at 2017-10-11 03:54:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 249.33 Mbit/s

95th percentile per-packet one-way delay: 50.653 ms

Loss rate: 0.00%

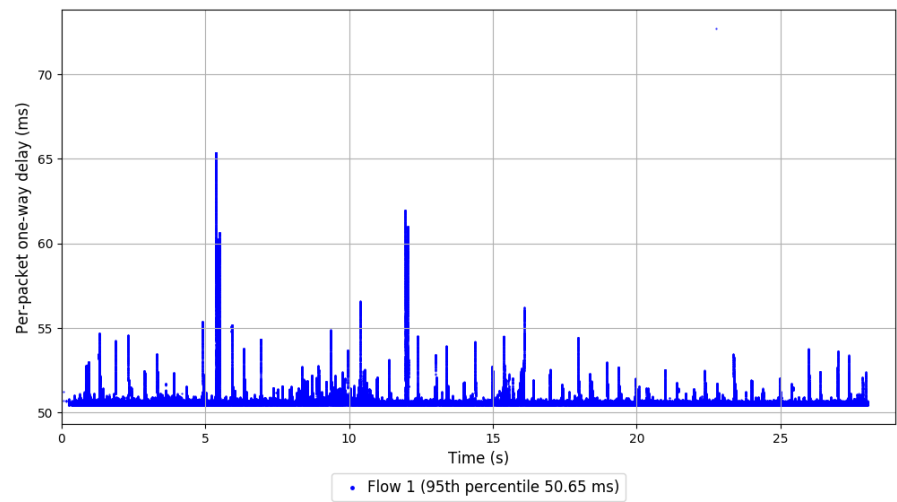
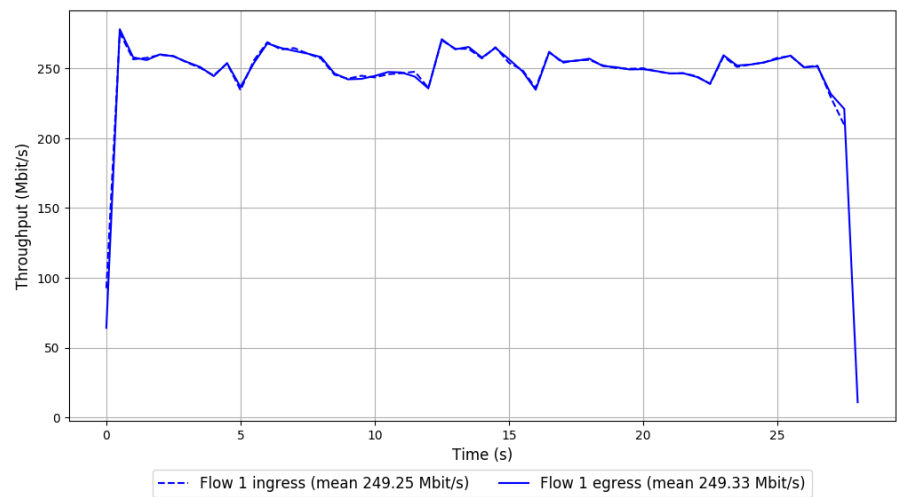
-- Flow 1:

Average throughput: 249.33 Mbit/s

95th percentile per-packet one-way delay: 50.653 ms

Loss rate: 0.00%

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



Run 9: Statistics of TaoVA-100x

Start at: 2017-10-11 02:01:03

End at: 2017-10-11 02:01:33

Below is generated by plot.py at 2017-10-11 03:54:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 164.54 Mbit/s

95th percentile per-packet one-way delay: 51.045 ms

Loss rate: 0.00%

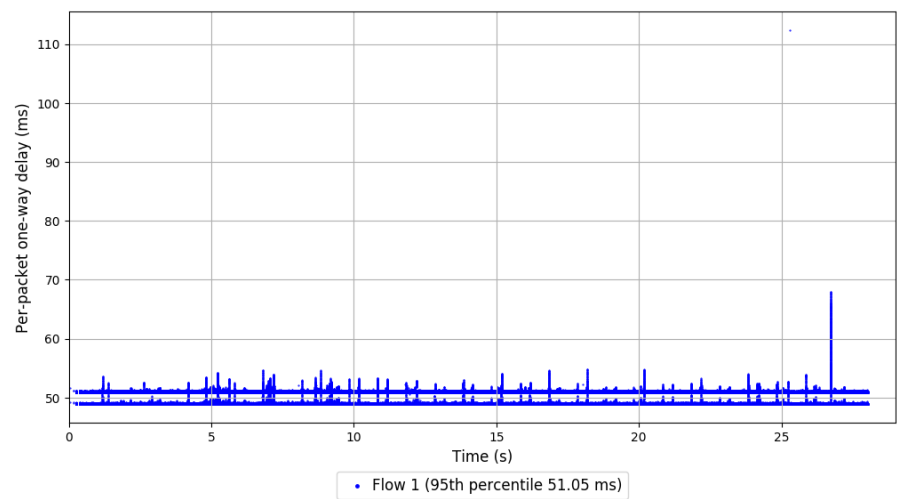
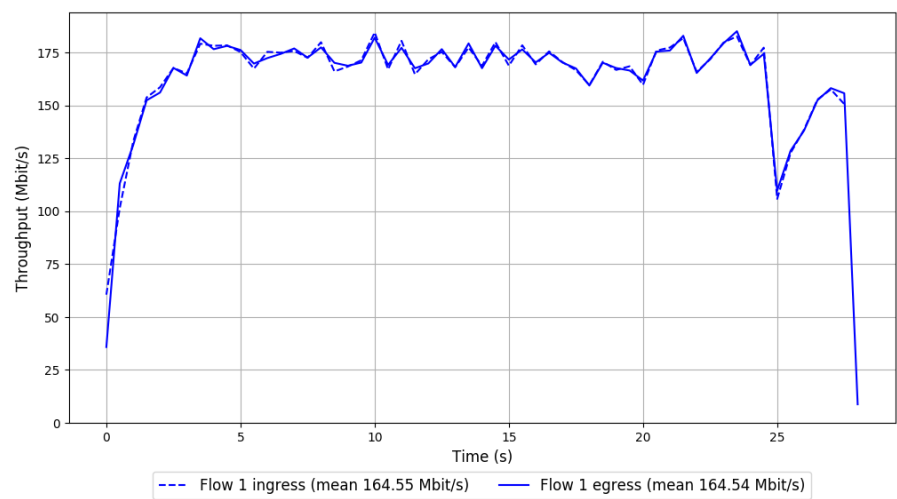
-- Flow 1:

Average throughput: 164.54 Mbit/s

95th percentile per-packet one-way delay: 51.045 ms

Loss rate: 0.00%

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

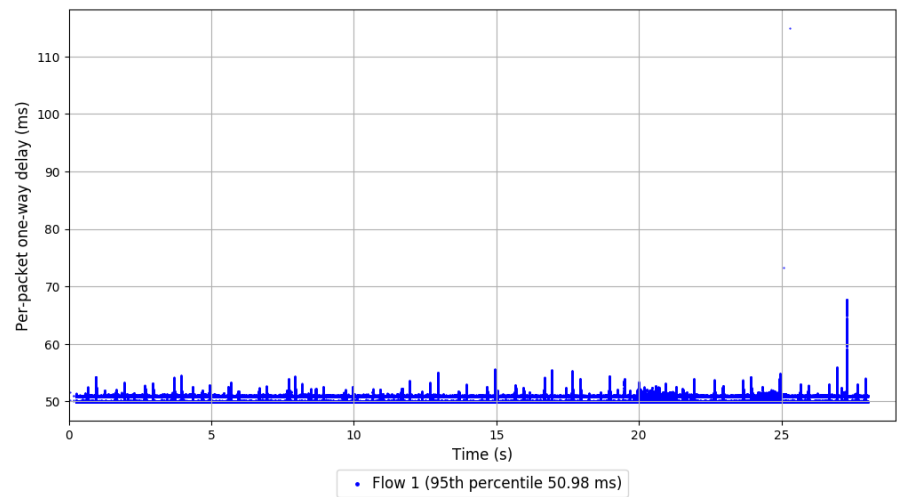
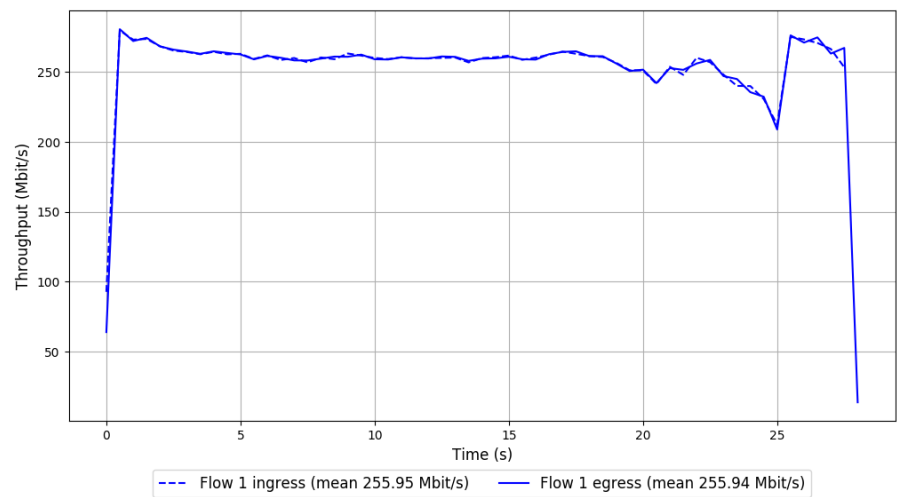


```
Run 10: Statistics of TaoVA-100x

Start at: 2017-10-11 02:11:38
End at: 2017-10-11 02:12:08

# Below is generated by plot.py at 2017-10-11 03:55:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 255.94 Mbit/s
95th percentile per-packet one-way delay: 50.976 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 255.94 Mbit/s
95th percentile per-packet one-way delay: 50.976 ms
Loss rate: 0.00%
```

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

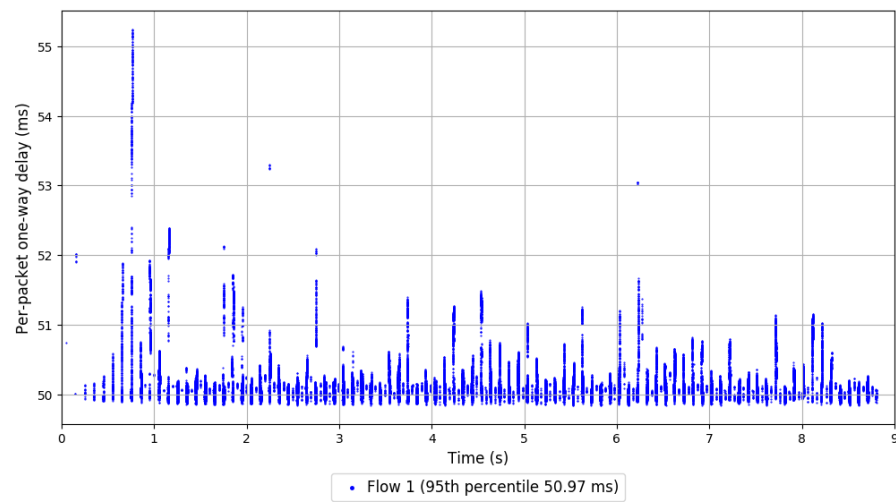
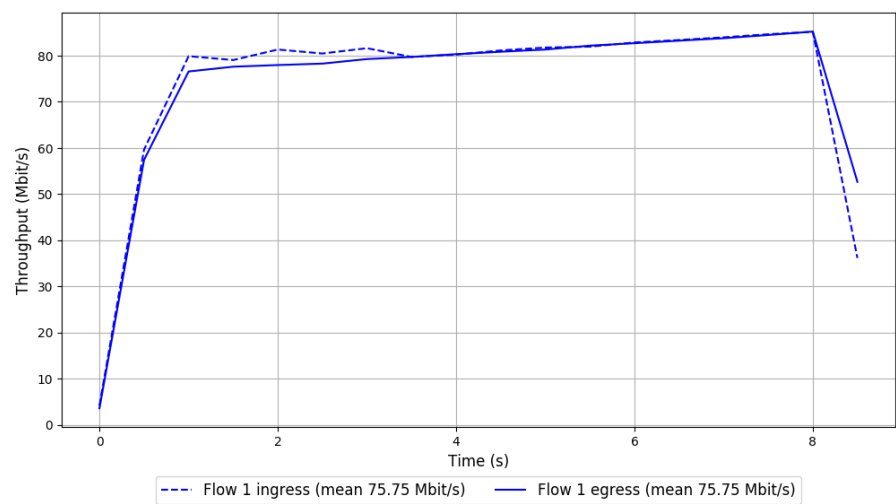


Run 1: Statistics of TCP Vegas

Start at: 2017-10-11 00:35:55

End at: 2017-10-11 00:36:25

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2017-10-11 00:46:42

End at: 2017-10-11 00:47:12

Below is generated by plot.py at 2017-10-11 03:55:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 98.85 Mbit/s

95th percentile per-packet one-way delay: 54.269 ms

Loss rate: 0.00%

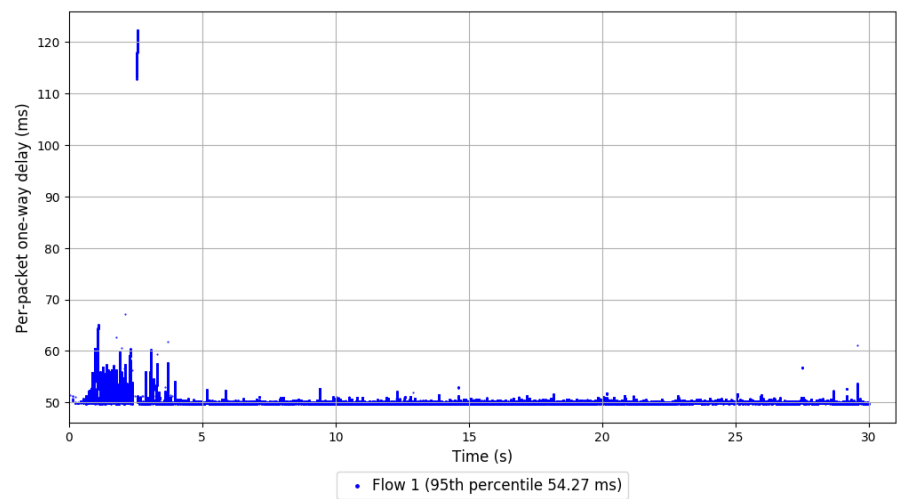
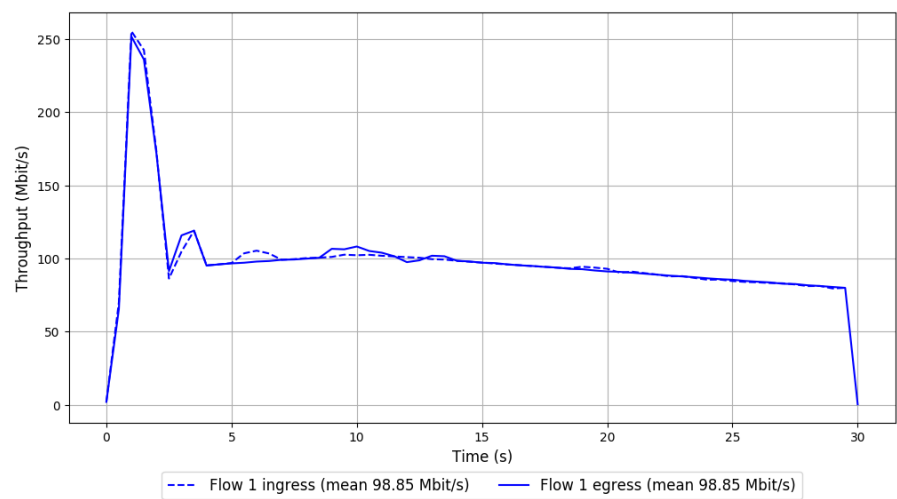
-- Flow 1:

Average throughput: 98.85 Mbit/s

95th percentile per-packet one-way delay: 54.269 ms

Loss rate: 0.00%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2017-10-11 00:57:28

End at: 2017-10-11 00:57:58

Below is generated by plot.py at 2017-10-11 03:55:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 126.10 Mbit/s

95th percentile per-packet one-way delay: 50.907 ms

Loss rate: 0.00%

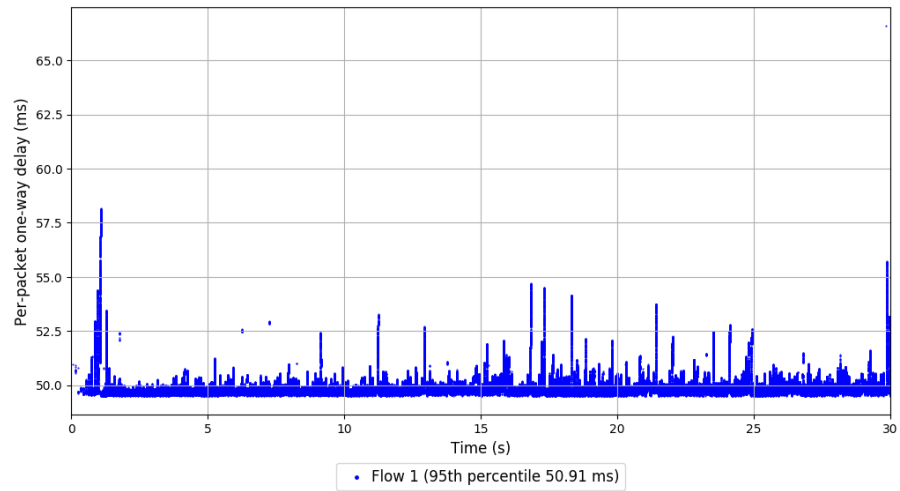
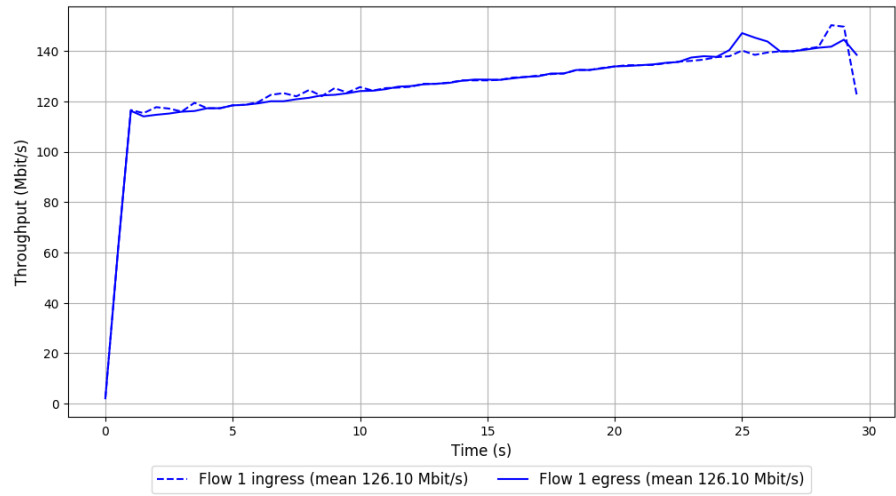
-- Flow 1:

Average throughput: 126.10 Mbit/s

95th percentile per-packet one-way delay: 50.907 ms

Loss rate: 0.00%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2017-10-11 01:08:16

End at: 2017-10-11 01:08:46

Below is generated by plot.py at 2017-10-11 03:55:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 104.20 Mbit/s

95th percentile per-packet one-way delay: 50.451 ms

Loss rate: 0.01%

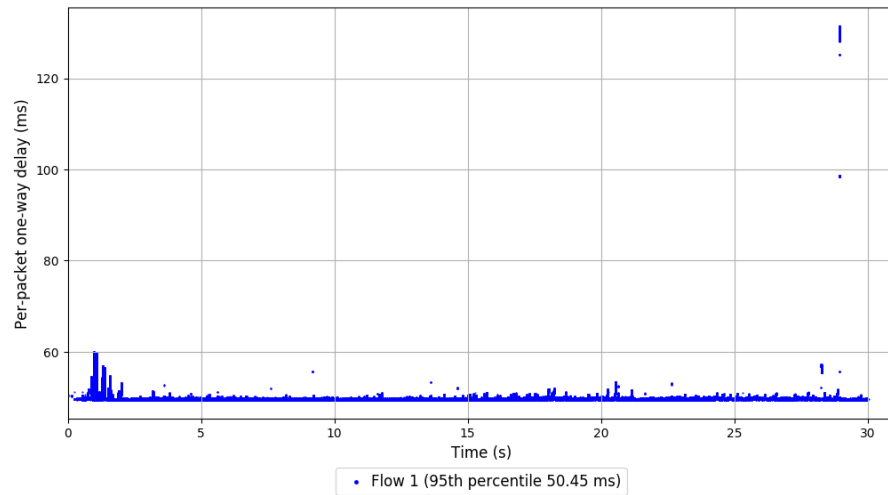
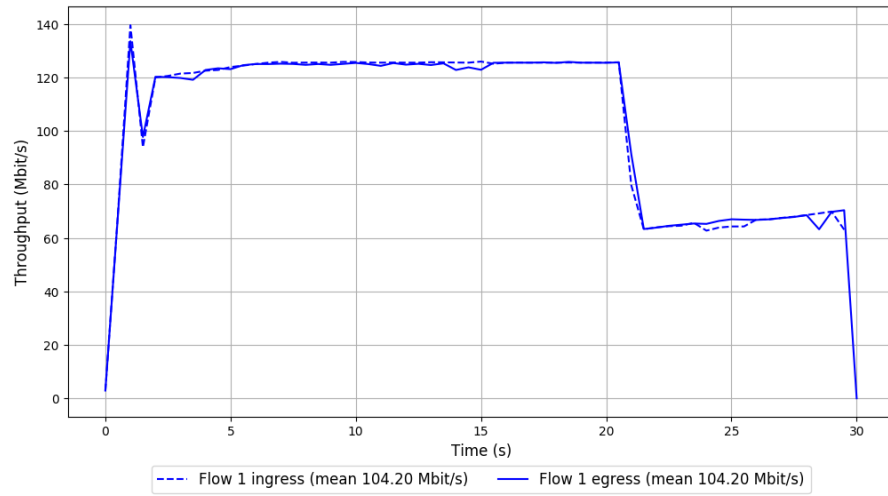
-- Flow 1:

Average throughput: 104.20 Mbit/s

95th percentile per-packet one-way delay: 50.451 ms

Loss rate: 0.01%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2017-10-11 01:19:03

End at: 2017-10-11 01:19:33

Below is generated by plot.py at 2017-10-11 03:55:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 63.37 Mbit/s

95th percentile per-packet one-way delay: 50.361 ms

Loss rate: 0.01%

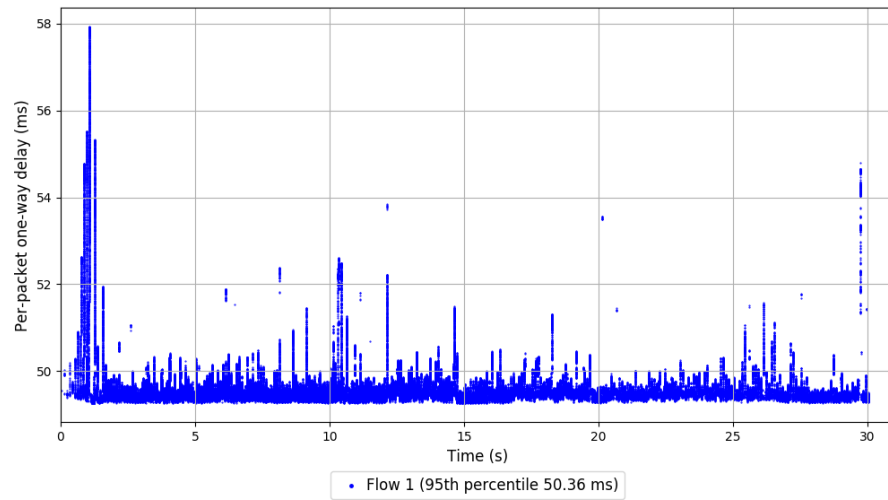
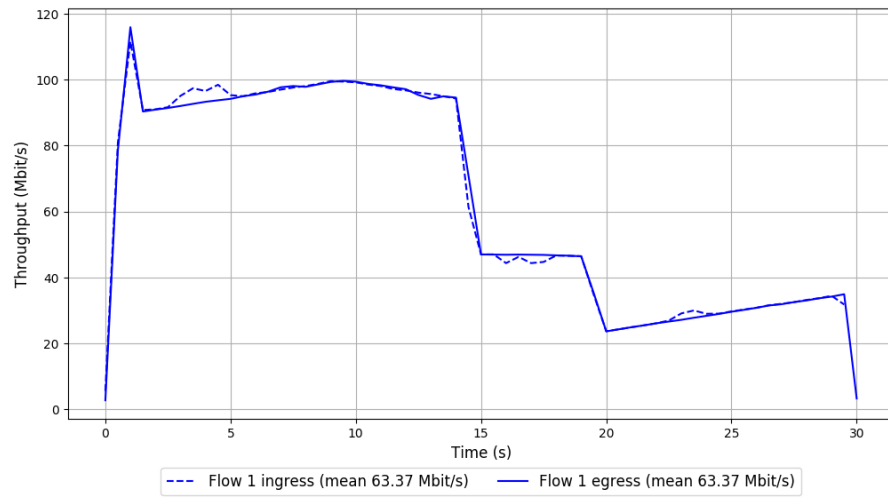
-- Flow 1:

Average throughput: 63.37 Mbit/s

95th percentile per-packet one-way delay: 50.361 ms

Loss rate: 0.01%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2017-10-11 01:29:46

End at: 2017-10-11 01:30:16

Below is generated by plot.py at 2017-10-11 03:55:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 51.74 Mbit/s

95th percentile per-packet one-way delay: 51.326 ms

Loss rate: 0.00%

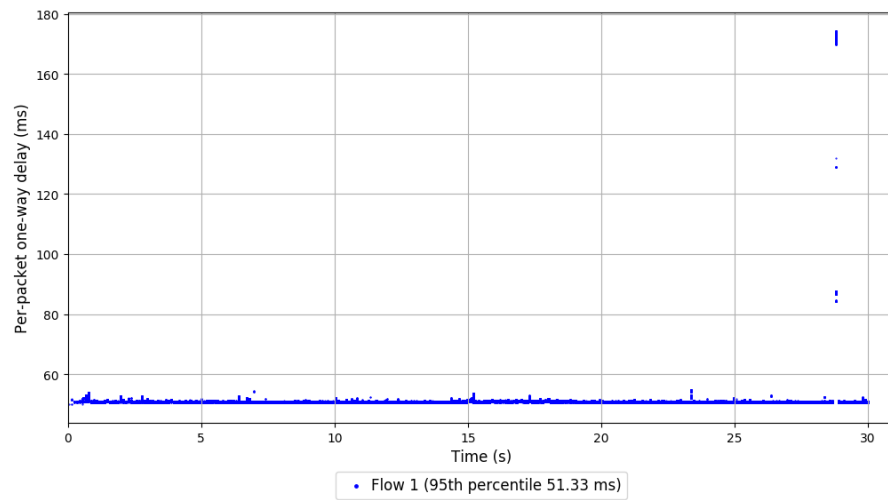
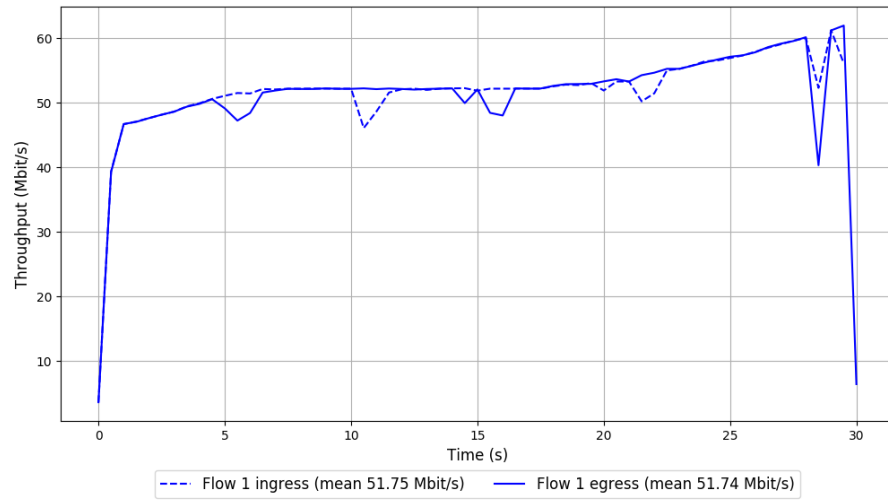
-- Flow 1:

Average throughput: 51.74 Mbit/s

95th percentile per-packet one-way delay: 51.326 ms

Loss rate: 0.00%

Run 6: Report of TCP Vegas — Data Link

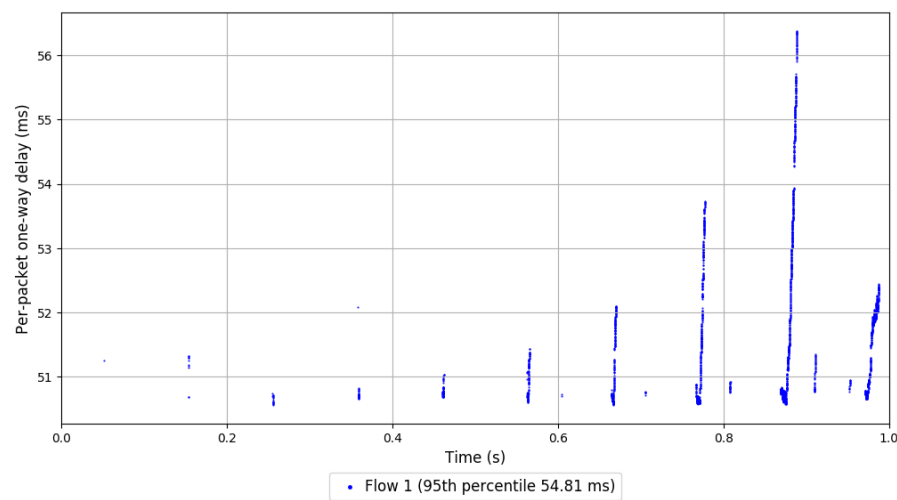
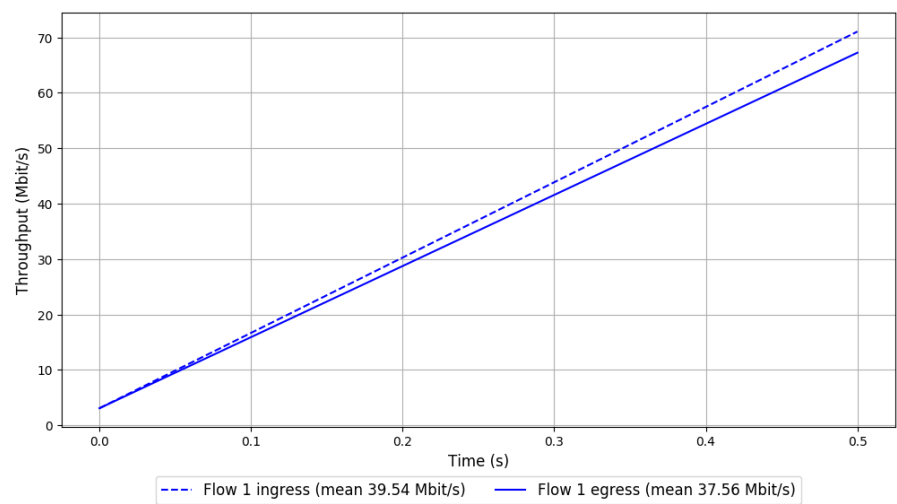


Run 7: Statistics of TCP Vegas

Start at: 2017-10-11 01:40:30

End at: 2017-10-11 01:41:00

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2017-10-11 01:51:12

End at: 2017-10-11 01:51:42

Below is generated by plot.py at 2017-10-11 03:55:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 45.05 Mbit/s

95th percentile per-packet one-way delay: 51.542 ms

Loss rate: 0.00%

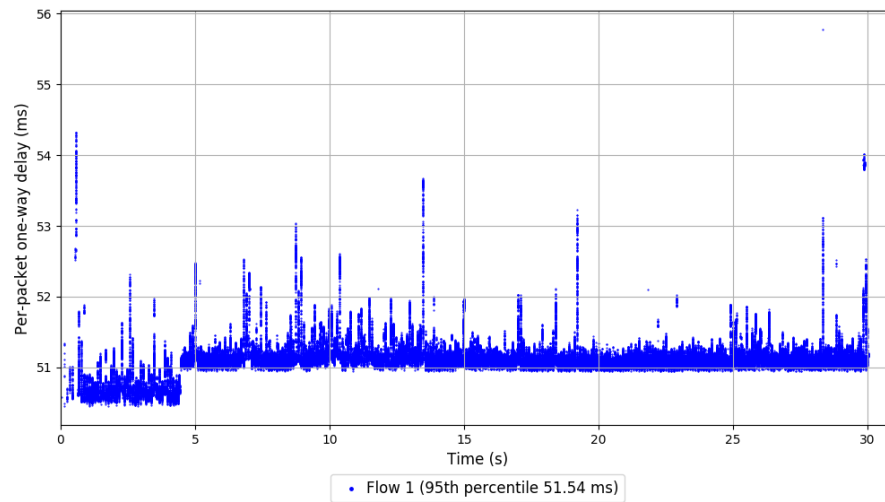
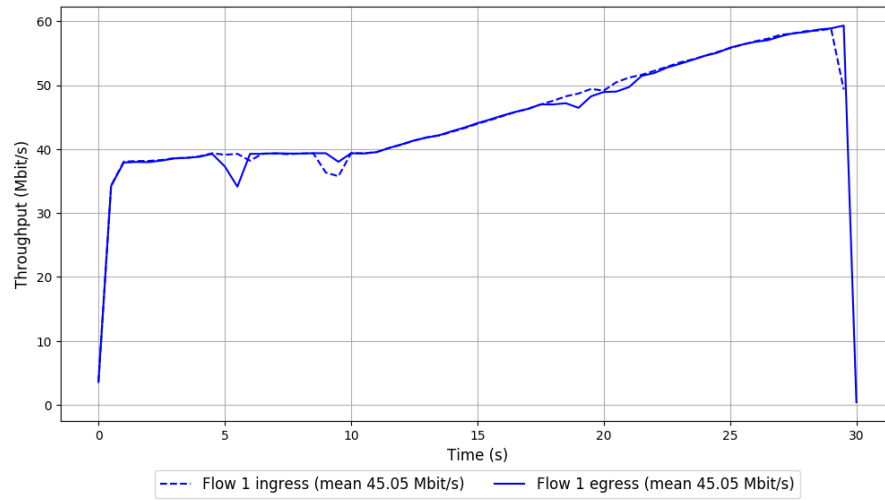
-- Flow 1:

Average throughput: 45.05 Mbit/s

95th percentile per-packet one-way delay: 51.542 ms

Loss rate: 0.00%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2017-10-11 02:01:53

End at: 2017-10-11 02:02:23

Below is generated by plot.py at 2017-10-11 03:55:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.82 Mbit/s

95th percentile per-packet one-way delay: 51.575 ms

Loss rate: 0.00%

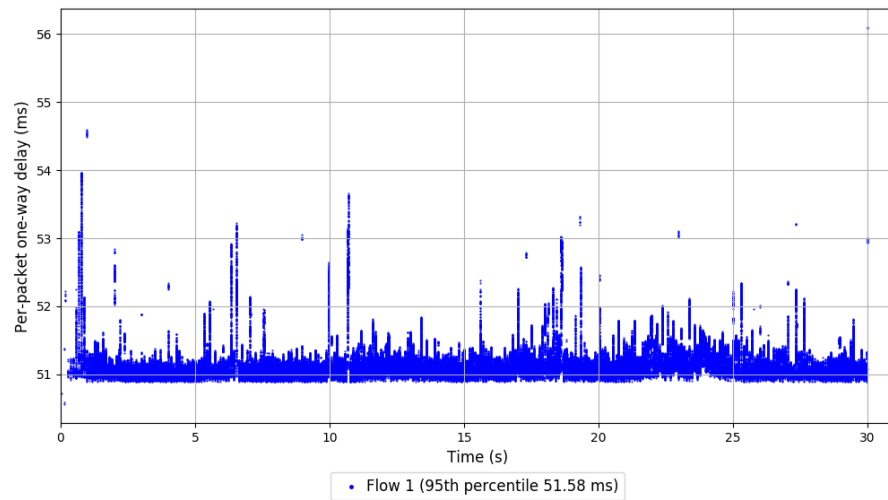
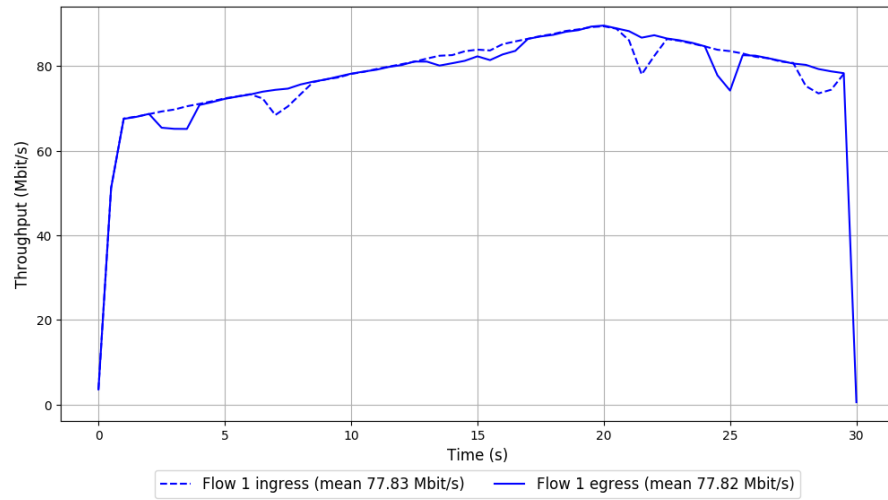
-- Flow 1:

Average throughput: 77.82 Mbit/s

95th percentile per-packet one-way delay: 51.575 ms

Loss rate: 0.00%

Run 9: Report of TCP Vegas — Data Link

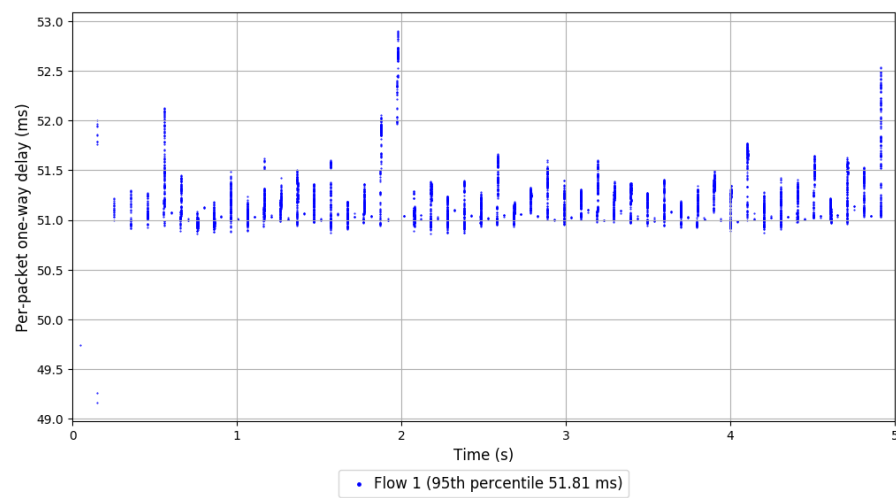
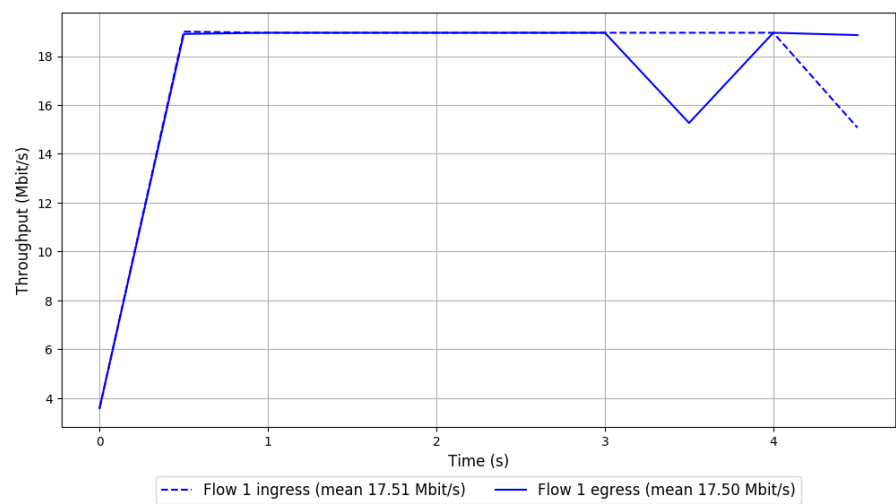


Run 10: Statistics of TCP Vegas

Start at: 2017-10-11 02:12:37

End at: 2017-10-11 02:13:07

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2017-10-11 00:33:17

End at: 2017-10-11 00:33:47

Below is generated by plot.py at 2017-10-11 03:56:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 342.78 Mbit/s

95th percentile per-packet one-way delay: 129.978 ms

Loss rate: 0.40%

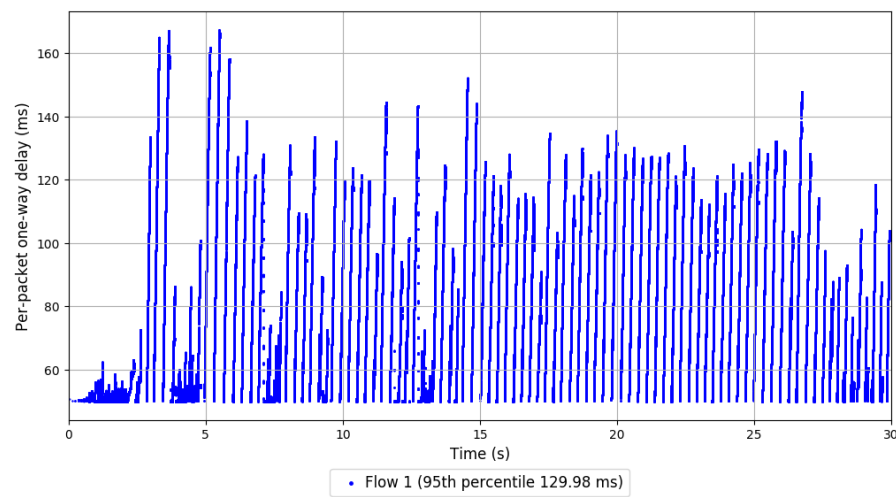
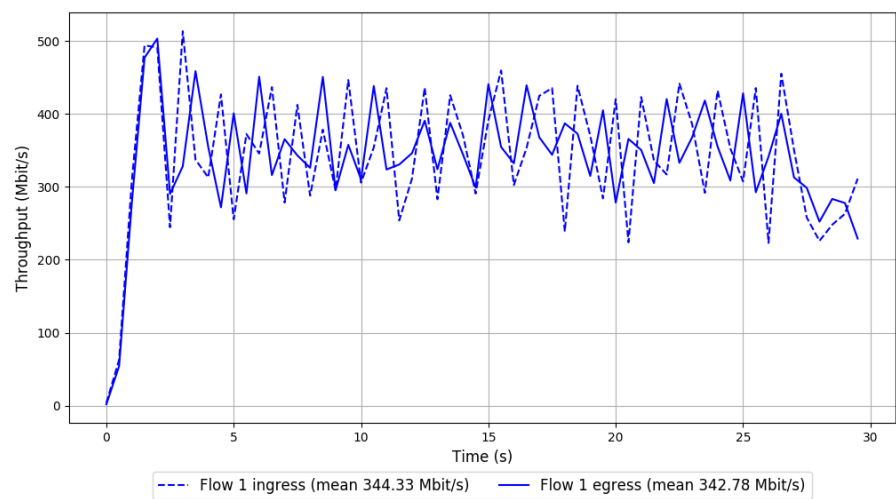
-- Flow 1:

Average throughput: 342.78 Mbit/s

95th percentile per-packet one-way delay: 129.978 ms

Loss rate: 0.40%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2017-10-11 00:44:13

End at: 2017-10-11 00:44:43

Below is generated by plot.py at 2017-10-11 03:56:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 228.33 Mbit/s

95th percentile per-packet one-way delay: 73.309 ms

Loss rate: 0.00%

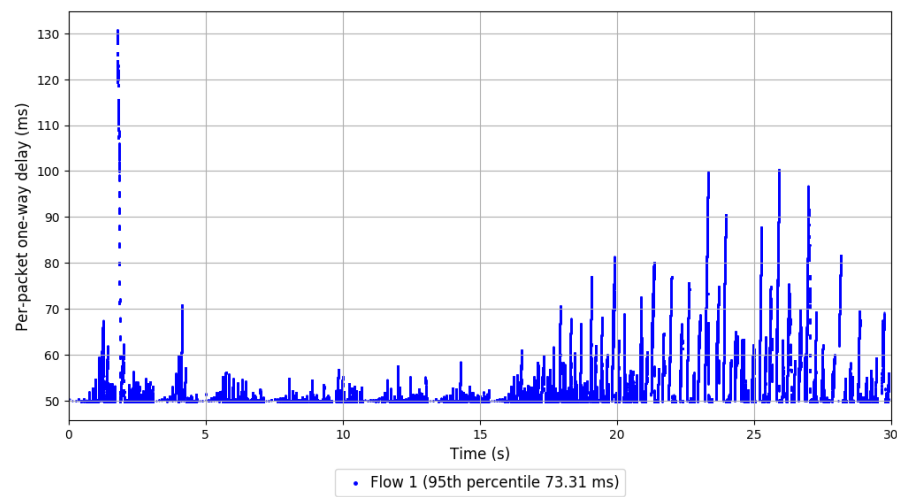
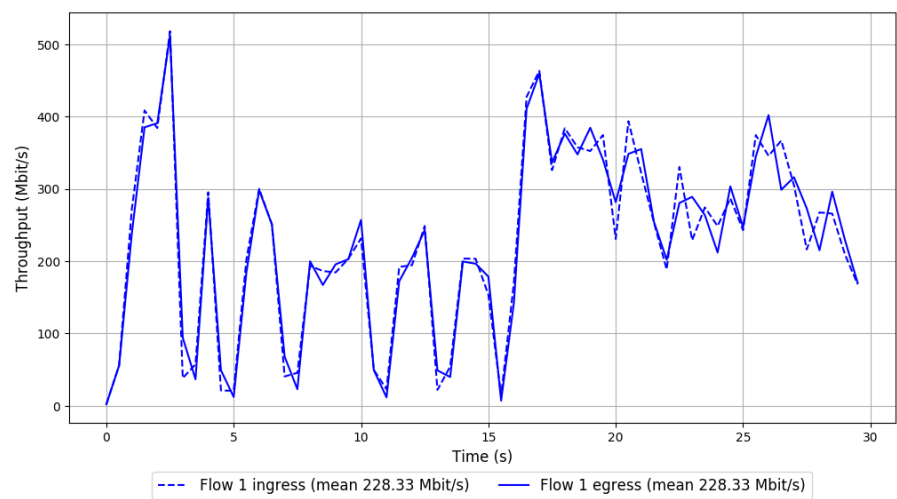
-- Flow 1:

Average throughput: 228.33 Mbit/s

95th percentile per-packet one-way delay: 73.309 ms

Loss rate: 0.00%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2017-10-11 00:54:58

End at: 2017-10-11 00:55:28

Below is generated by plot.py at 2017-10-11 03:56:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 237.77 Mbit/s

95th percentile per-packet one-way delay: 119.515 ms

Loss rate: 0.00%

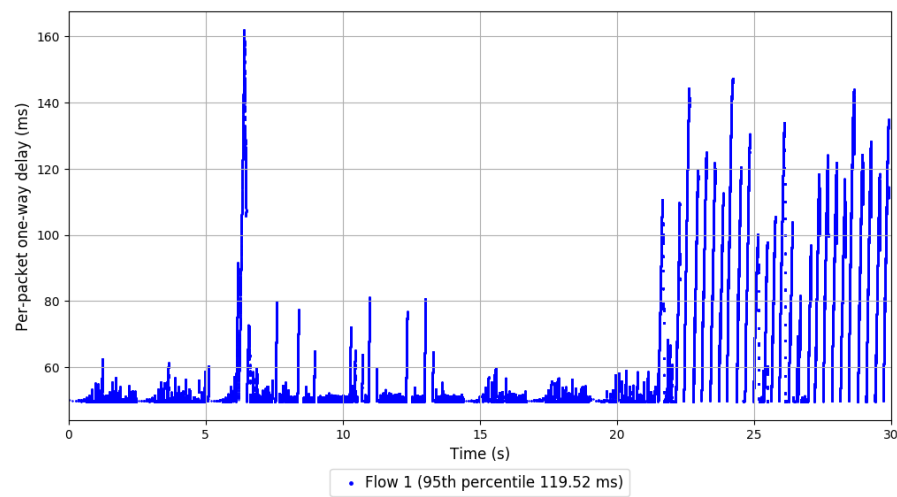
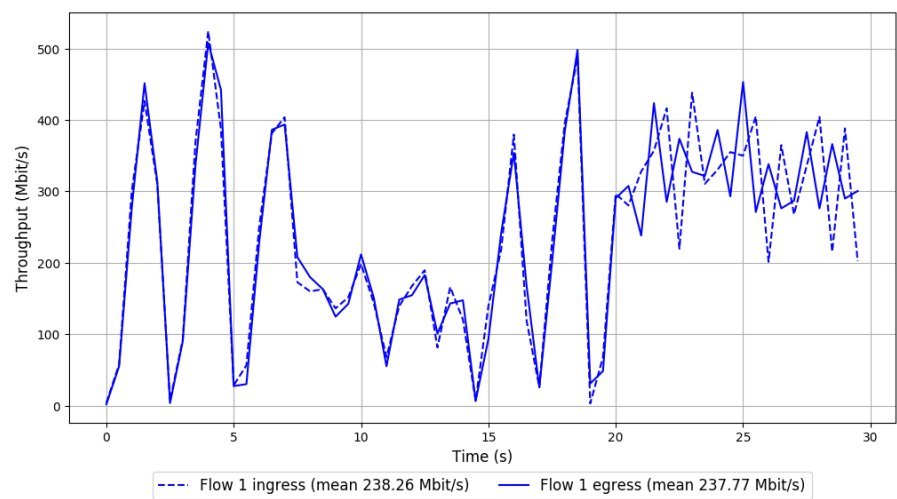
-- Flow 1:

Average throughput: 237.77 Mbit/s

95th percentile per-packet one-way delay: 119.515 ms

Loss rate: 0.00%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2017-10-11 01:05:45

End at: 2017-10-11 01:06:15

Below is generated by plot.py at 2017-10-11 03:56:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 264.14 Mbit/s

95th percentile per-packet one-way delay: 134.174 ms

Loss rate: 0.12%

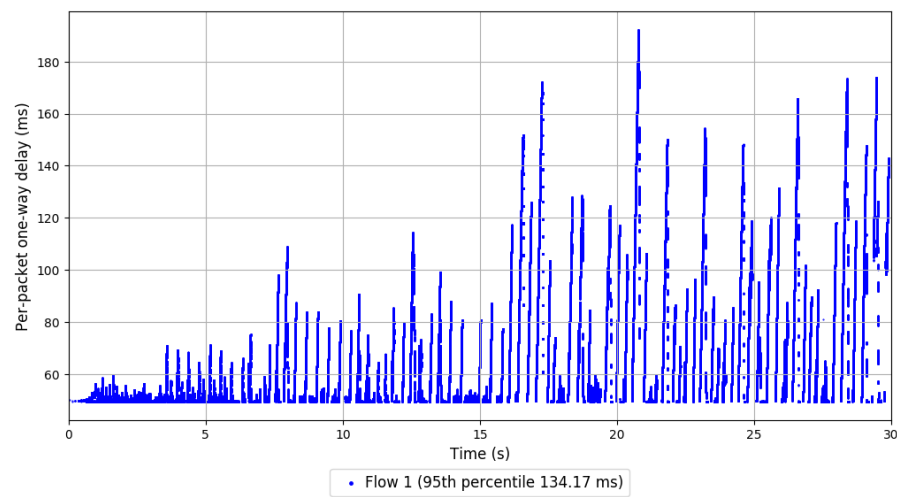
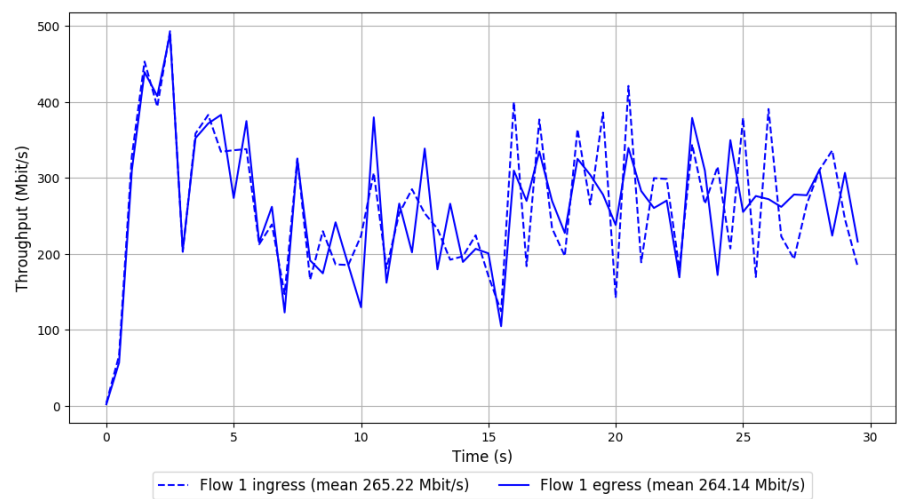
-- Flow 1:

Average throughput: 264.14 Mbit/s

95th percentile per-packet one-way delay: 134.174 ms

Loss rate: 0.12%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2017-10-11 01:16:28

End at: 2017-10-11 01:16:58

Below is generated by plot.py at 2017-10-11 03:56:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 267.79 Mbit/s

95th percentile per-packet one-way delay: 77.712 ms

Loss rate: 0.00%

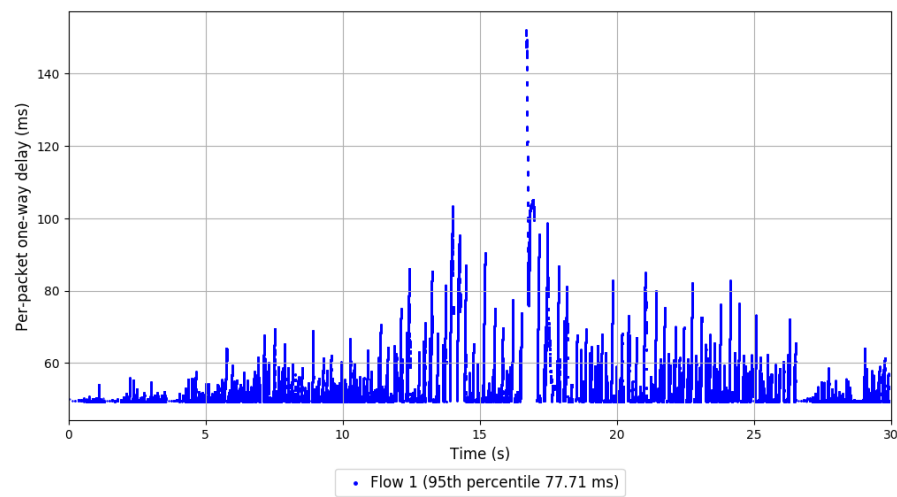
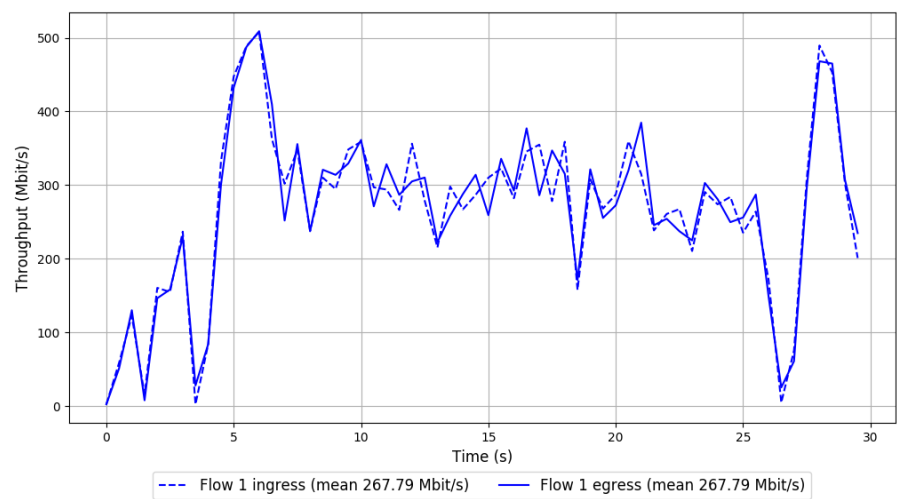
-- Flow 1:

Average throughput: 267.79 Mbit/s

95th percentile per-packet one-way delay: 77.712 ms

Loss rate: 0.00%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2017-10-11 01:27:15

End at: 2017-10-11 01:27:45

Below is generated by plot.py at 2017-10-11 03:57:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 224.98 Mbit/s

95th percentile per-packet one-way delay: 67.807 ms

Loss rate: 0.00%

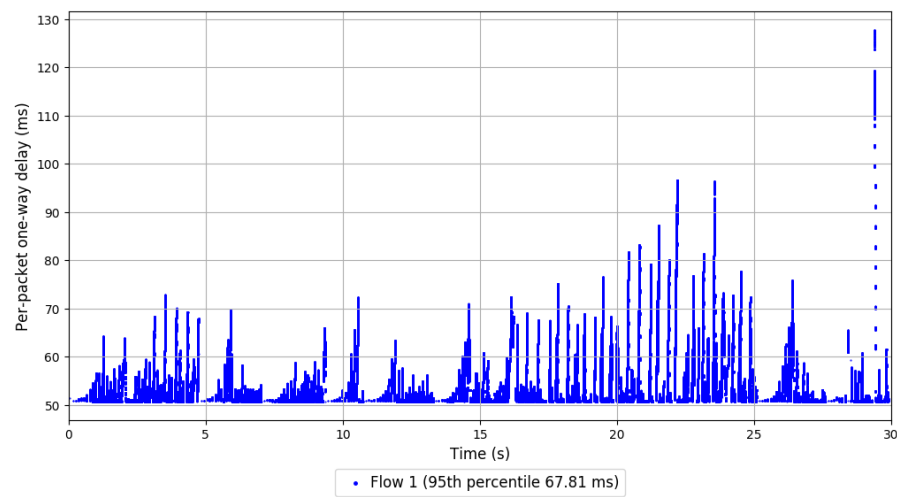
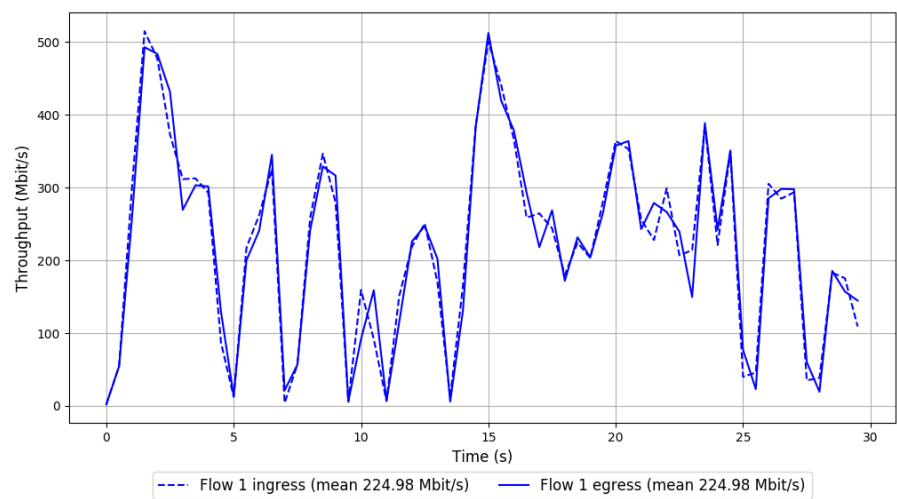
-- Flow 1:

Average throughput: 224.98 Mbit/s

95th percentile per-packet one-way delay: 67.807 ms

Loss rate: 0.00%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2017-10-11 01:37:59

End at: 2017-10-11 01:38:29

Below is generated by plot.py at 2017-10-11 03:58:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 226.42 Mbit/s

95th percentile per-packet one-way delay: 60.519 ms

Loss rate: 0.00%

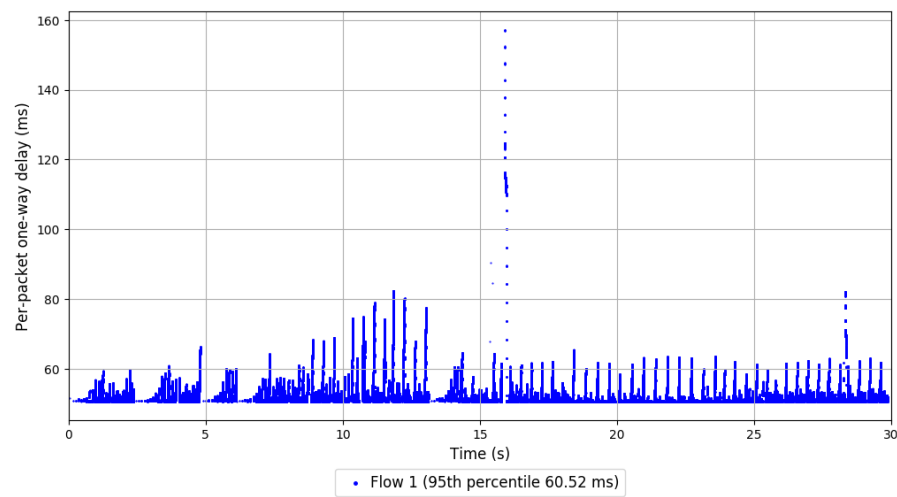
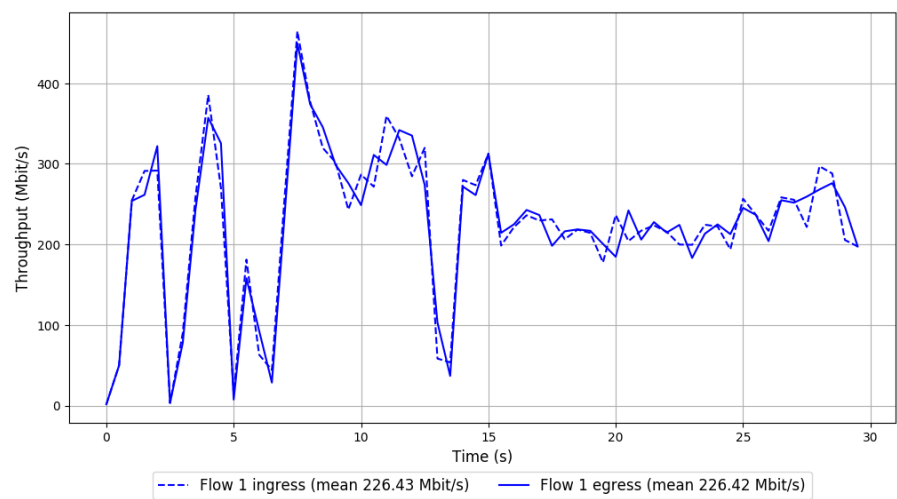
-- Flow 1:

Average throughput: 226.42 Mbit/s

95th percentile per-packet one-way delay: 60.519 ms

Loss rate: 0.00%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2017-10-11 01:48:39

End at: 2017-10-11 01:49:09

Below is generated by plot.py at 2017-10-11 03:59:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 270.79 Mbit/s

95th percentile per-packet one-way delay: 66.505 ms

Loss rate: 0.01%

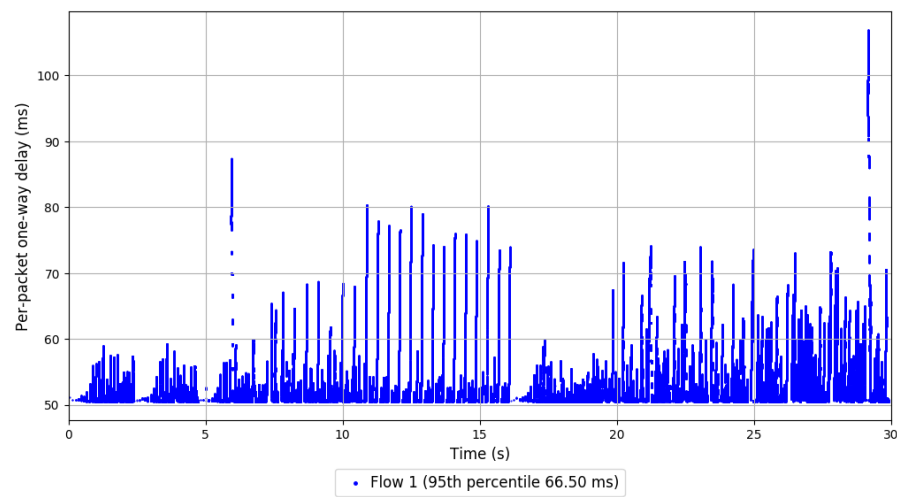
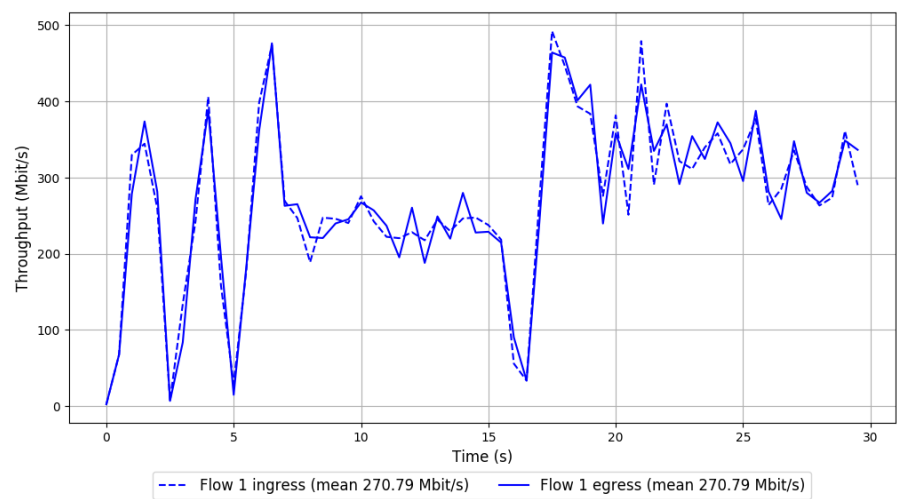
-- Flow 1:

Average throughput: 270.79 Mbit/s

95th percentile per-packet one-way delay: 66.505 ms

Loss rate: 0.01%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2017-10-11 01:59:30

End at: 2017-10-11 02:00:00

Below is generated by plot.py at 2017-10-11 03:59:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 238.08 Mbit/s

95th percentile per-packet one-way delay: 89.530 ms

Loss rate: 0.09%

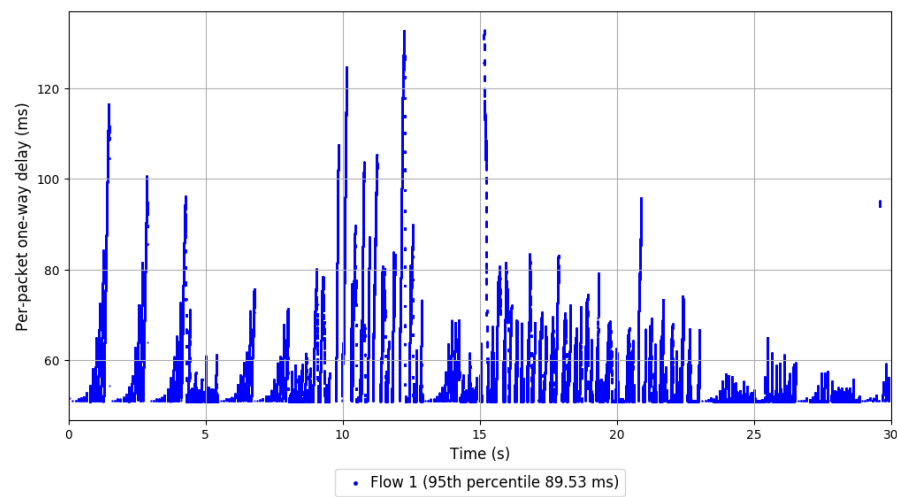
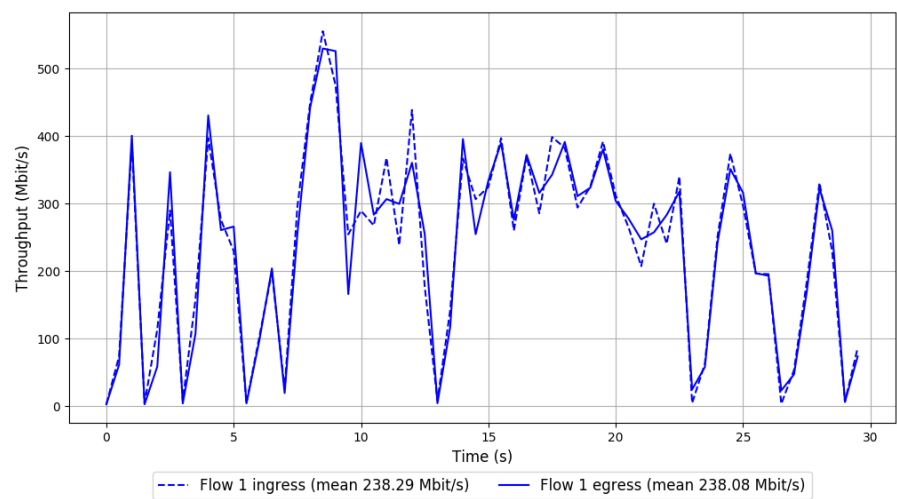
-- Flow 1:

Average throughput: 238.08 Mbit/s

95th percentile per-packet one-way delay: 89.530 ms

Loss rate: 0.09%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2017-10-11 02:10:02

End at: 2017-10-11 02:10:32

Below is generated by plot.py at 2017-10-11 04:00:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 291.39 Mbit/s

95th percentile per-packet one-way delay: 121.893 ms

Loss rate: 0.00%

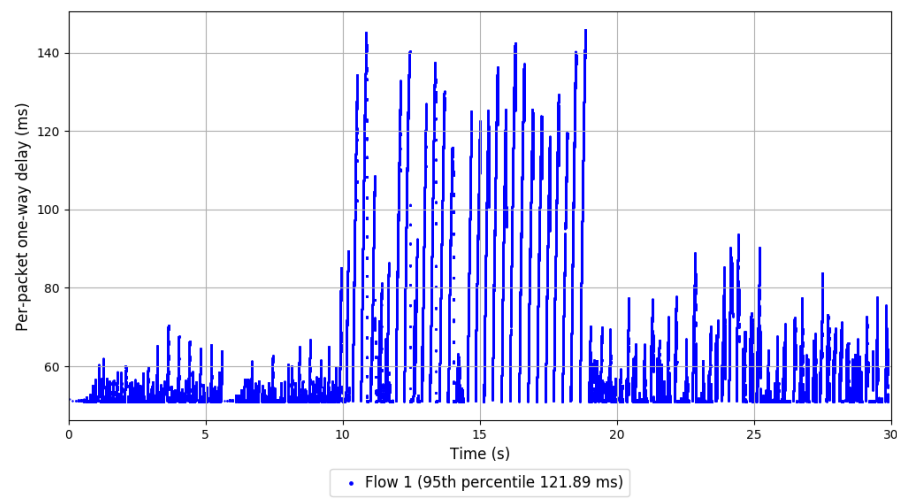
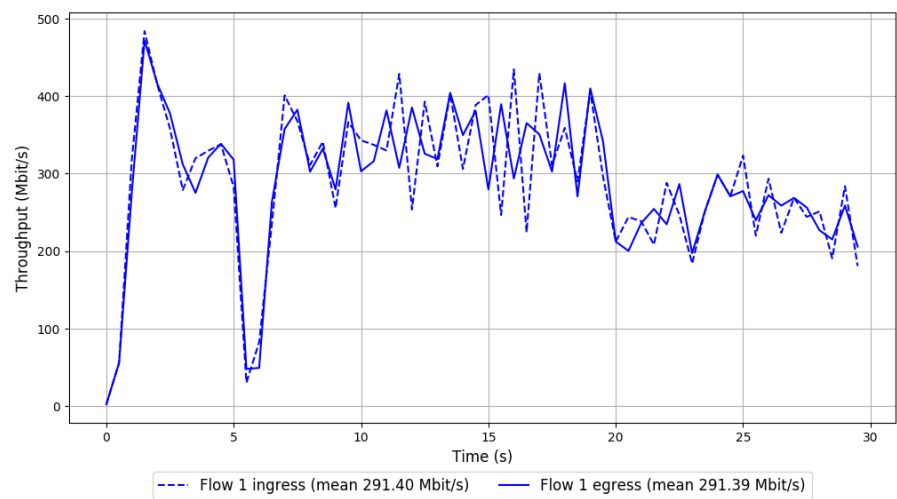
-- Flow 1:

Average throughput: 291.39 Mbit/s

95th percentile per-packet one-way delay: 121.893 ms

Loss rate: 0.00%

Run 10: Report of Verus — Data Link

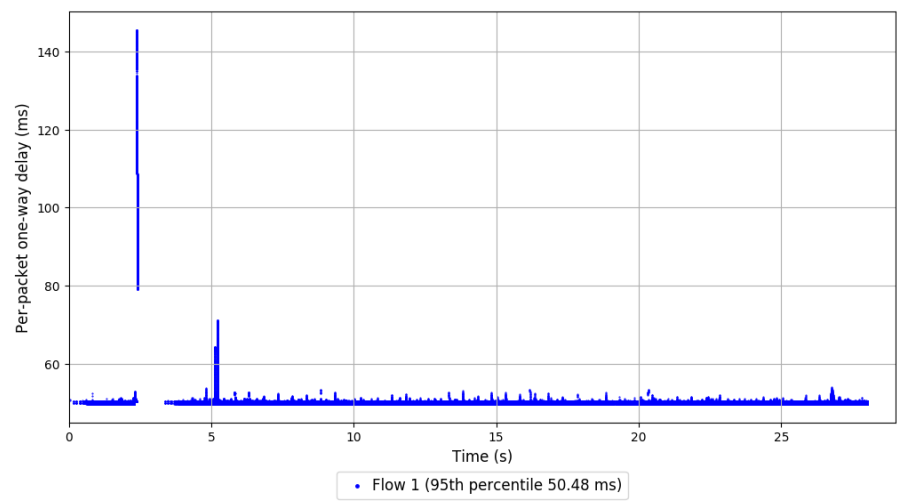
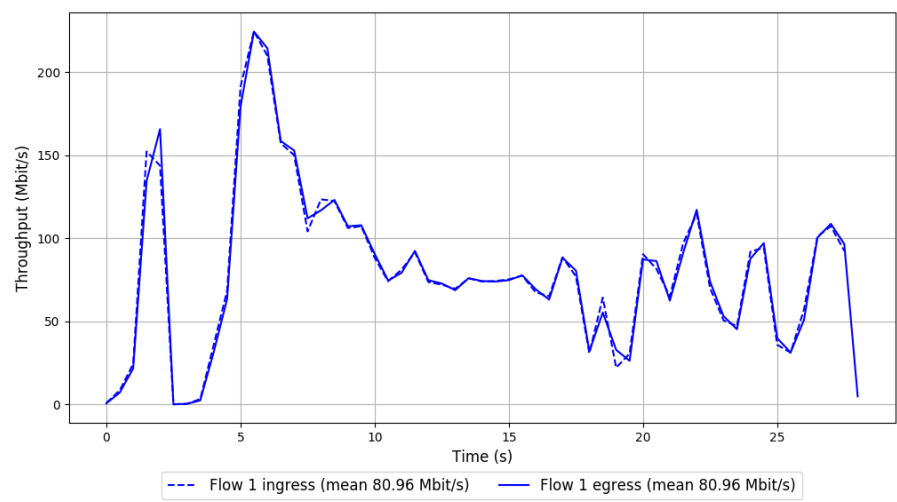


```
Run 1: Statistics of Copa

Start at: 2017-10-11 00:40:40
End at: 2017-10-11 00:41:10

# Below is generated by plot.py at 2017-10-11 04:00:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 80.96 Mbit/s
95th percentile per-packet one-way delay: 50.476 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 80.96 Mbit/s
95th percentile per-packet one-way delay: 50.476 ms
Loss rate: 0.00%
```

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2017-10-11 00:51:26

End at: 2017-10-11 00:51:56

Below is generated by plot.py at 2017-10-11 04:00:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 112.94 Mbit/s

95th percentile per-packet one-way delay: 51.831 ms

Loss rate: 0.00%

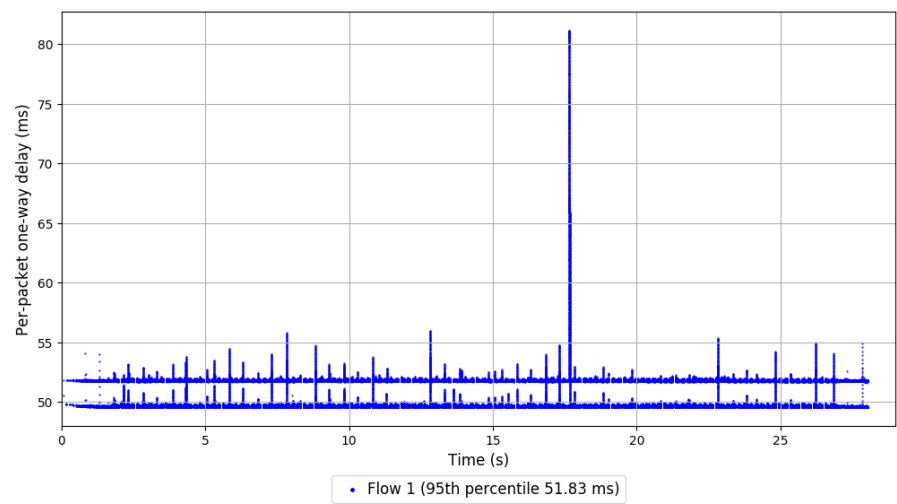
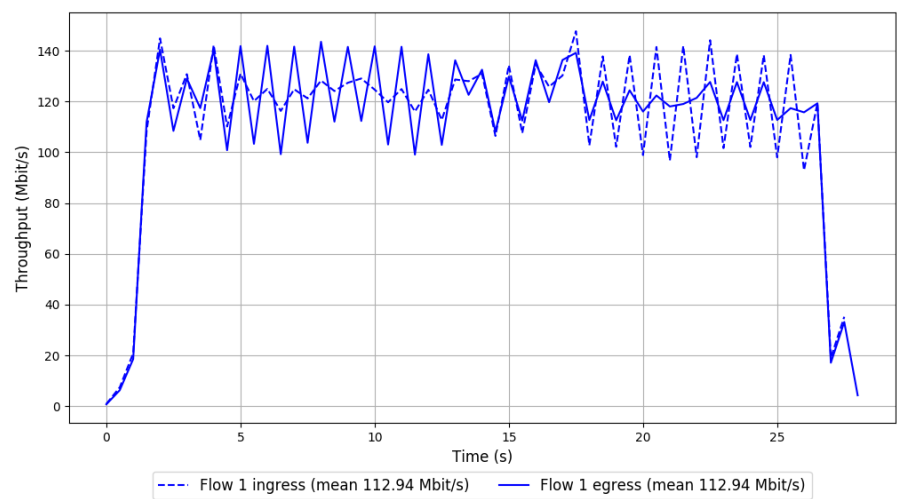
-- Flow 1:

Average throughput: 112.94 Mbit/s

95th percentile per-packet one-way delay: 51.831 ms

Loss rate: 0.00%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2017-10-11 01:02:12

End at: 2017-10-11 01:02:42

Below is generated by plot.py at 2017-10-11 04:00:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.55 Mbit/s

95th percentile per-packet one-way delay: 49.625 ms

Loss rate: 0.00%

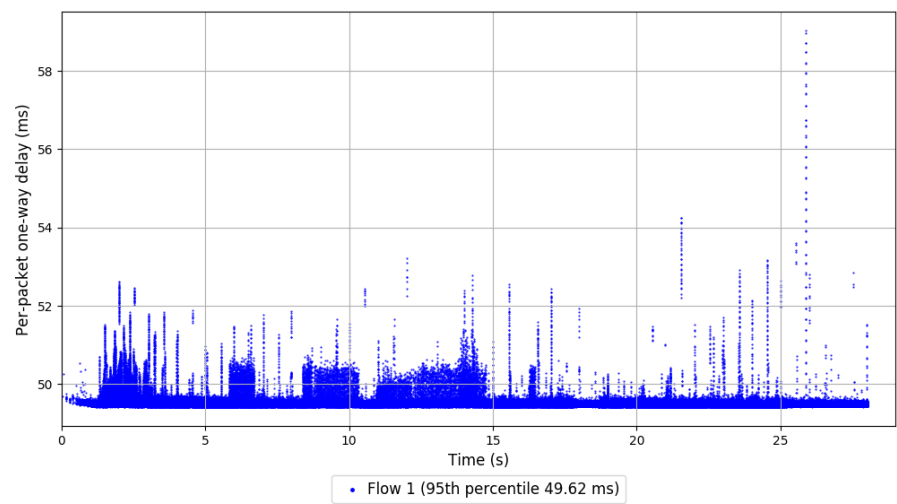
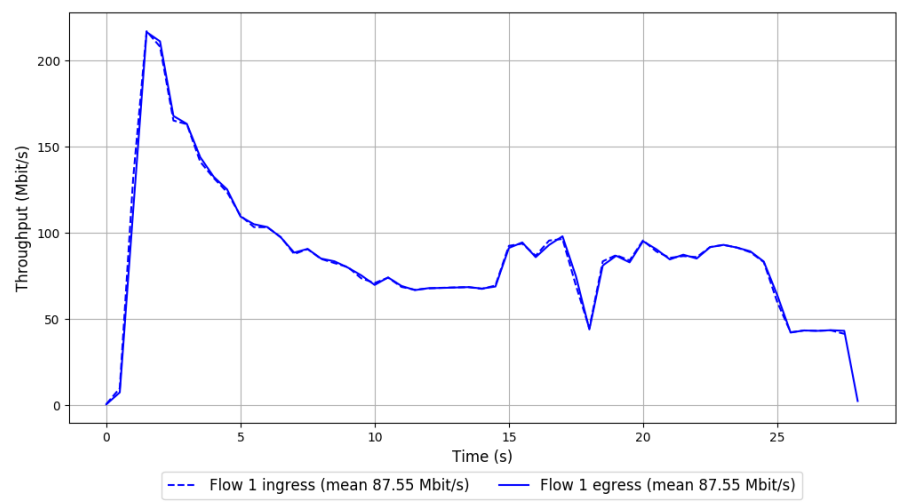
-- Flow 1:

Average throughput: 87.55 Mbit/s

95th percentile per-packet one-way delay: 49.625 ms

Loss rate: 0.00%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2017-10-11 01:12:58

End at: 2017-10-11 01:13:28

Below is generated by plot.py at 2017-10-11 04:00:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 54.80 Mbit/s

95th percentile per-packet one-way delay: 51.406 ms

Loss rate: 0.00%

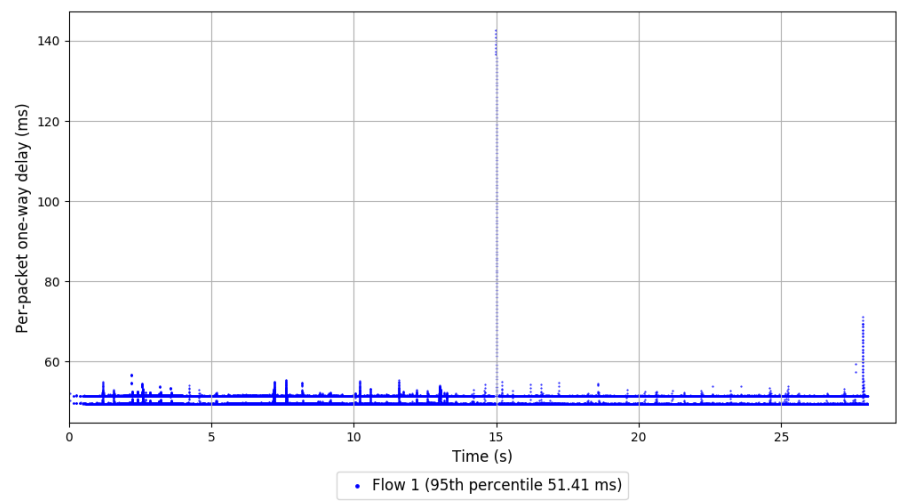
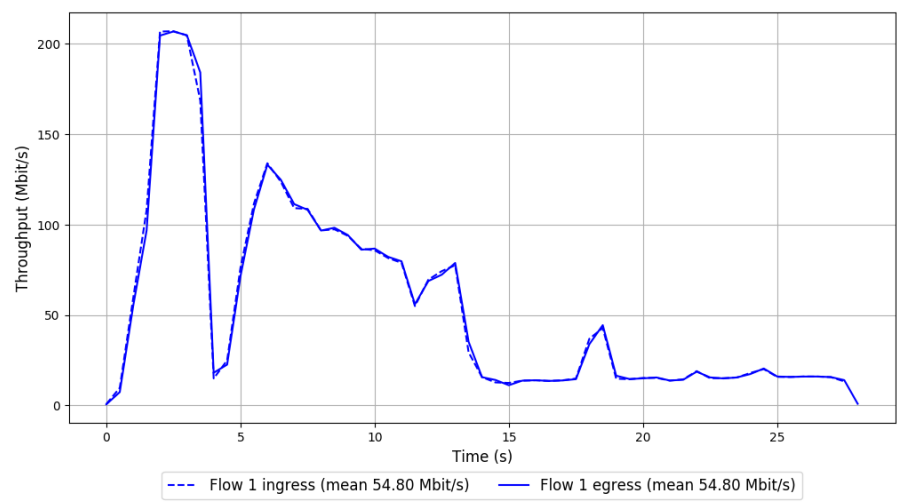
-- Flow 1:

Average throughput: 54.80 Mbit/s

95th percentile per-packet one-way delay: 51.406 ms

Loss rate: 0.00%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2017-10-11 01:23:42

End at: 2017-10-11 01:24:12

Below is generated by plot.py at 2017-10-11 04:01:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.67 Mbit/s

95th percentile per-packet one-way delay: 50.768 ms

Loss rate: 0.00%

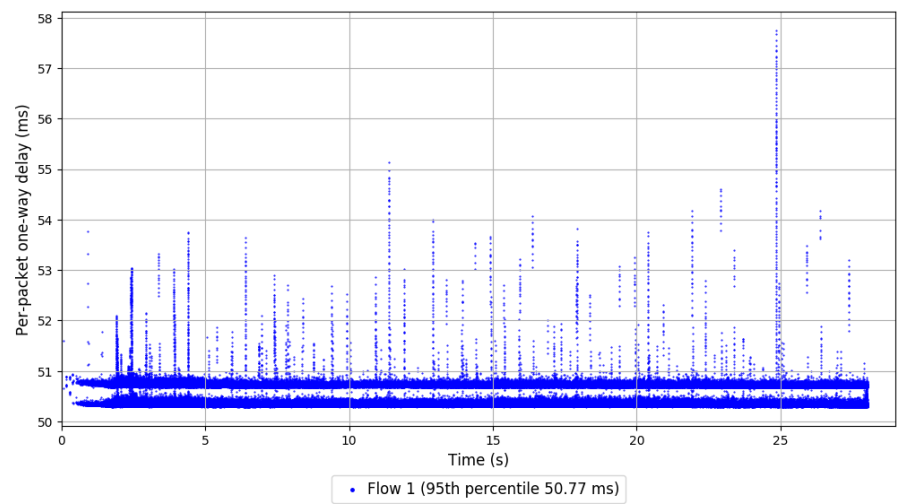
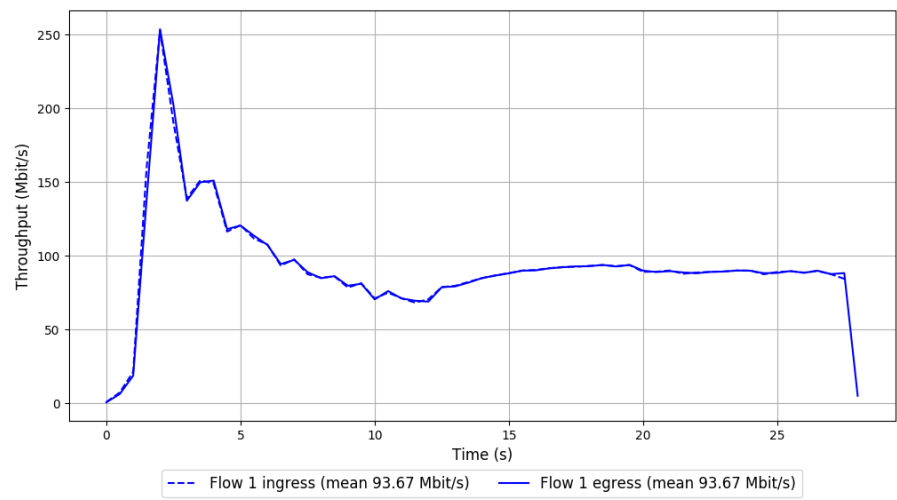
-- Flow 1:

Average throughput: 93.67 Mbit/s

95th percentile per-packet one-way delay: 50.768 ms

Loss rate: 0.00%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2017-10-11 01:34:26

End at: 2017-10-11 01:34:56

Below is generated by plot.py at 2017-10-11 04:01:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.07 Mbit/s

95th percentile per-packet one-way delay: 50.718 ms

Loss rate: 0.00%

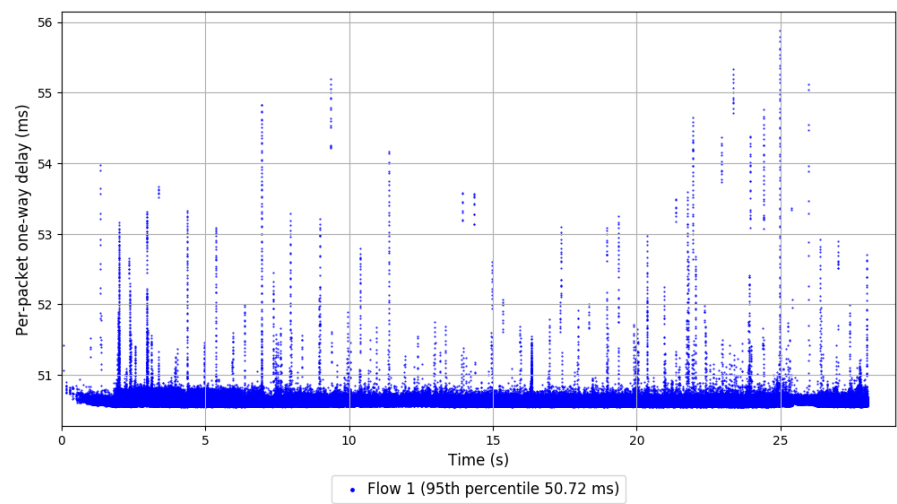
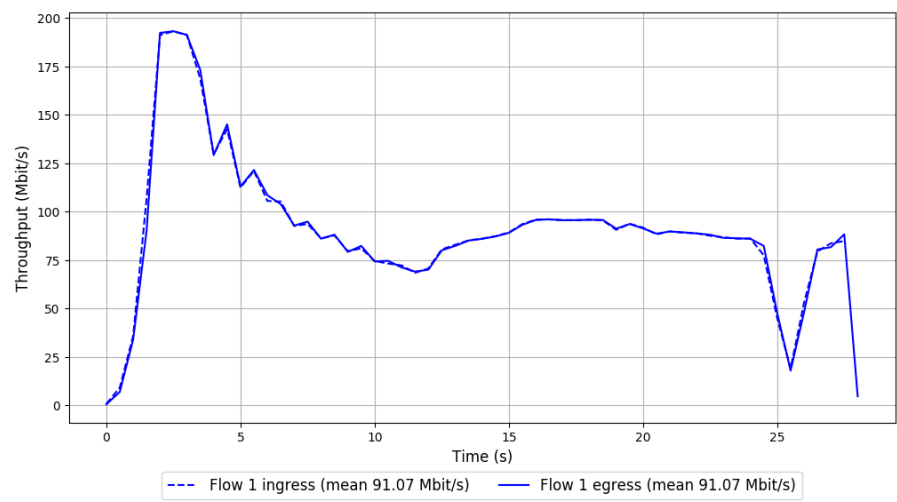
-- Flow 1:

Average throughput: 91.07 Mbit/s

95th percentile per-packet one-way delay: 50.718 ms

Loss rate: 0.00%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2017-10-11 01:45:06

End at: 2017-10-11 01:45:36

Below is generated by plot.py at 2017-10-11 04:01:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.15 Mbit/s

95th percentile per-packet one-way delay: 50.613 ms

Loss rate: 0.00%

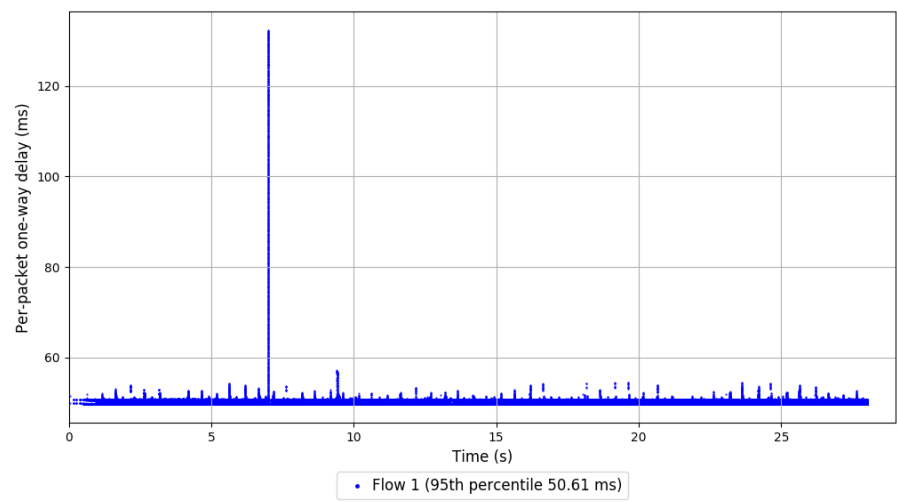
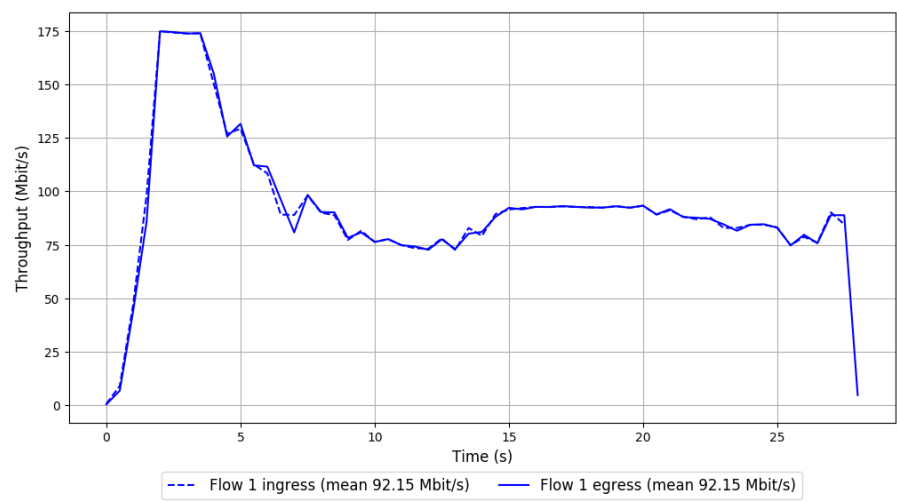
-- Flow 1:

Average throughput: 92.15 Mbit/s

95th percentile per-packet one-way delay: 50.613 ms

Loss rate: 0.00%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2017-10-11 01:55:56

End at: 2017-10-11 01:56:26

Below is generated by plot.py at 2017-10-11 04:02:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.78 Mbit/s

95th percentile per-packet one-way delay: 51.046 ms

Loss rate: 0.00%

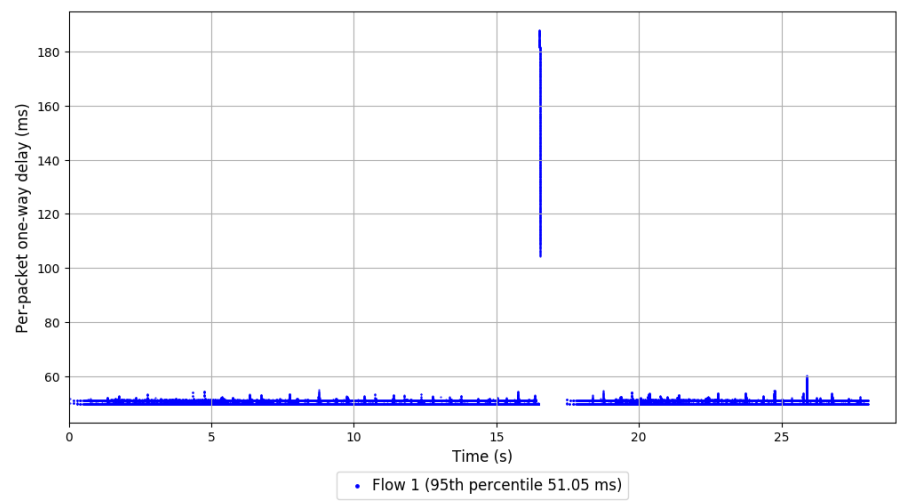
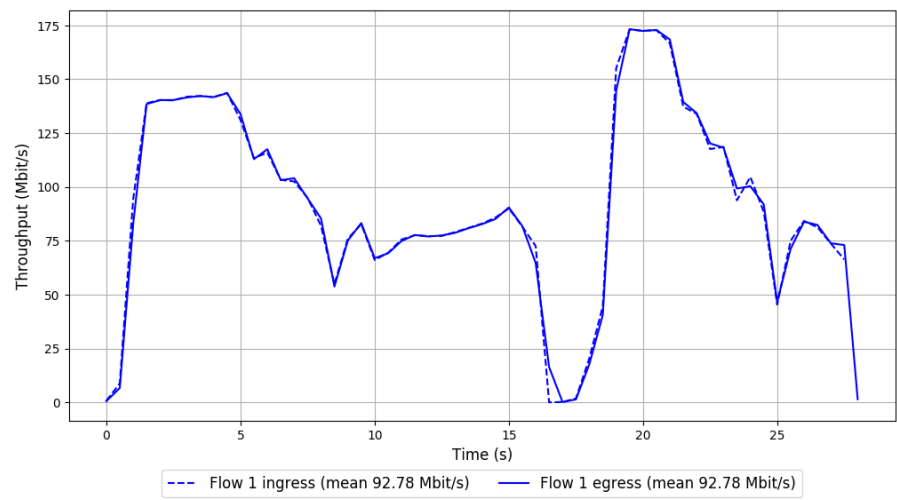
-- Flow 1:

Average throughput: 92.78 Mbit/s

95th percentile per-packet one-way delay: 51.046 ms

Loss rate: 0.00%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2017-10-11 02:06:29

End at: 2017-10-11 02:06:59

Below is generated by plot.py at 2017-10-11 04:02:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.92 Mbit/s

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

Loss rate: 0.00%

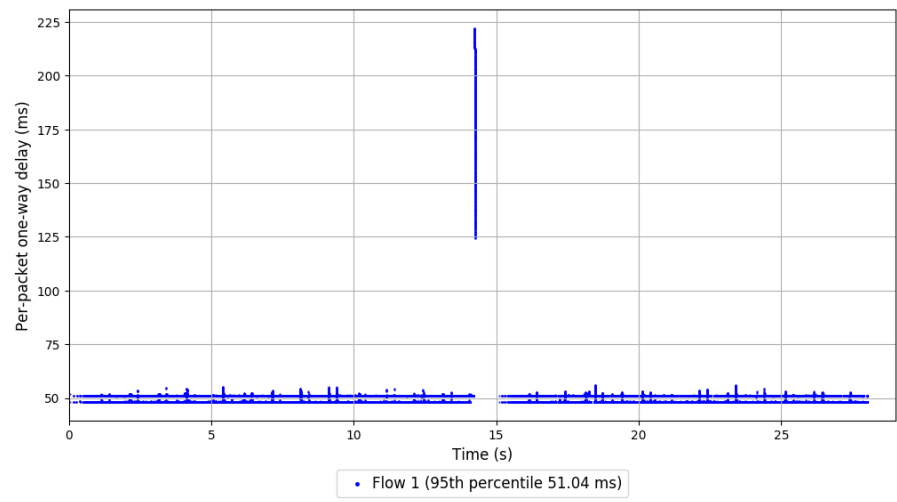
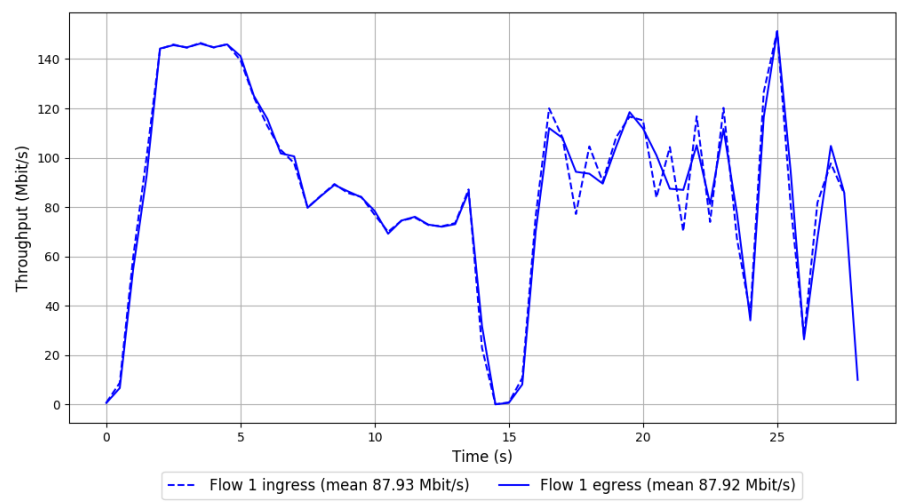
-- Flow 1:

Average throughput: 87.92 Mbit/s

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

Loss rate: 0.00%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2017-10-11 02:17:19

End at: 2017-10-11 02:17:49

Below is generated by plot.py at 2017-10-11 04:02:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 70.81 Mbit/s

95th percentile per-packet one-way delay: 50.990 ms

Loss rate: 0.00%

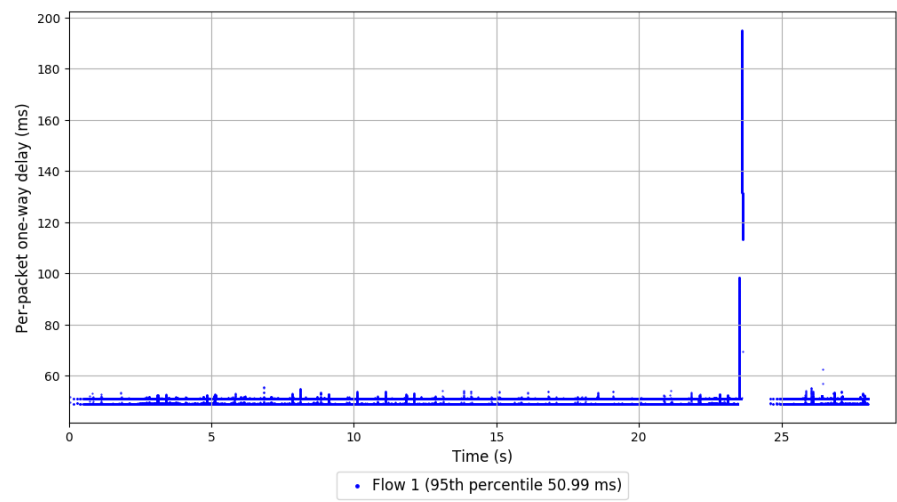
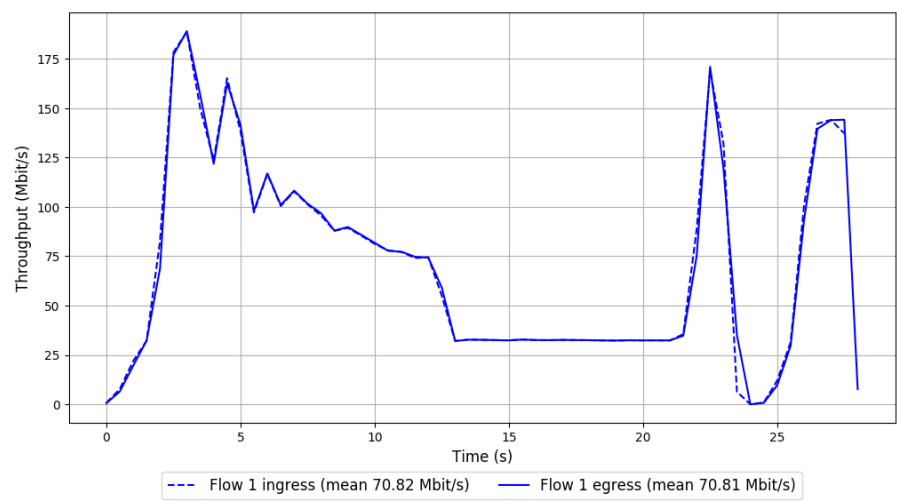
-- Flow 1:

Average throughput: 70.81 Mbit/s

95th percentile per-packet one-way delay: 50.990 ms

Loss rate: 0.00%

Run 10: Report of Copa — Data Link

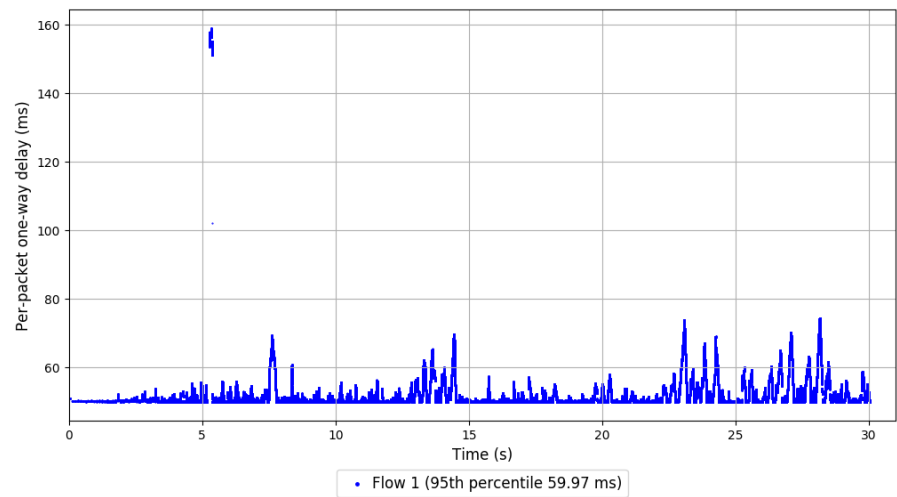
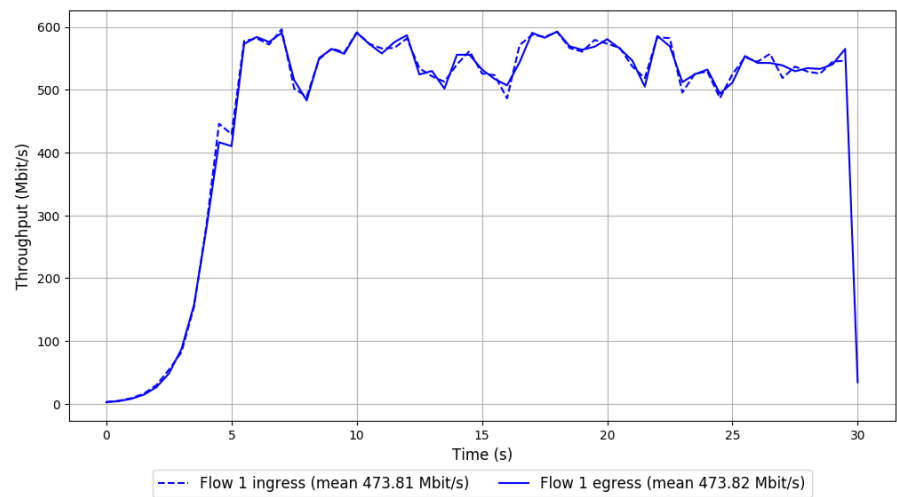


```
Run 1: Statistics of CalibratedKoho

Start at: 2017-10-11 00:38:10
End at: 2017-10-11 00:38:40

# Below is generated by plot.py at 2017-10-11 04:09:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 473.82 Mbit/s
95th percentile per-packet one-way delay: 59.973 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 473.82 Mbit/s
95th percentile per-packet one-way delay: 59.973 ms
Loss rate: 0.00%
```


Run 1: Report of CalibratedKoho — Data Link



Run 2: Statistics of CalibratedKoho

Start at: 2017-10-11 00:49:01

End at: 2017-10-11 00:49:31

Below is generated by plot.py at 2017-10-11 04:09:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 445.68 Mbit/s

95th percentile per-packet one-way delay: 64.078 ms

Loss rate: 0.01%

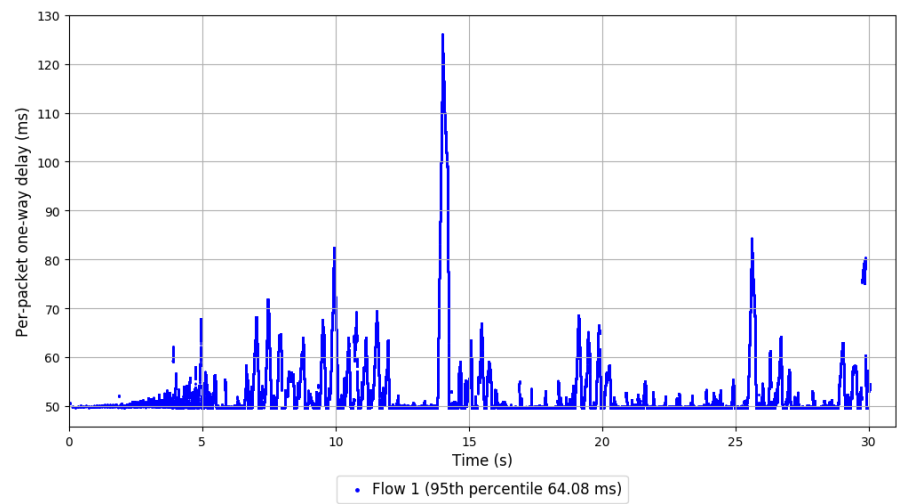
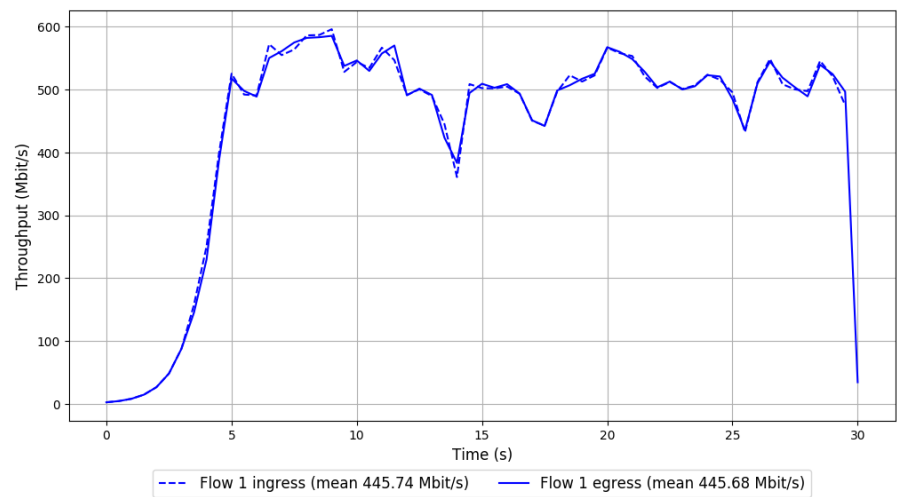
-- Flow 1:

Average throughput: 445.68 Mbit/s

95th percentile per-packet one-way delay: 64.078 ms

Loss rate: 0.01%

Run 2: Report of CalibratedKoho — Data Link



Run 3: Statistics of CalibratedKoho

Start at: 2017-10-11 00:59:48

End at: 2017-10-11 01:00:18

Below is generated by plot.py at 2017-10-11 04:09:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 468.56 Mbit/s

95th percentile per-packet one-way delay: 59.878 ms

Loss rate: 0.00%

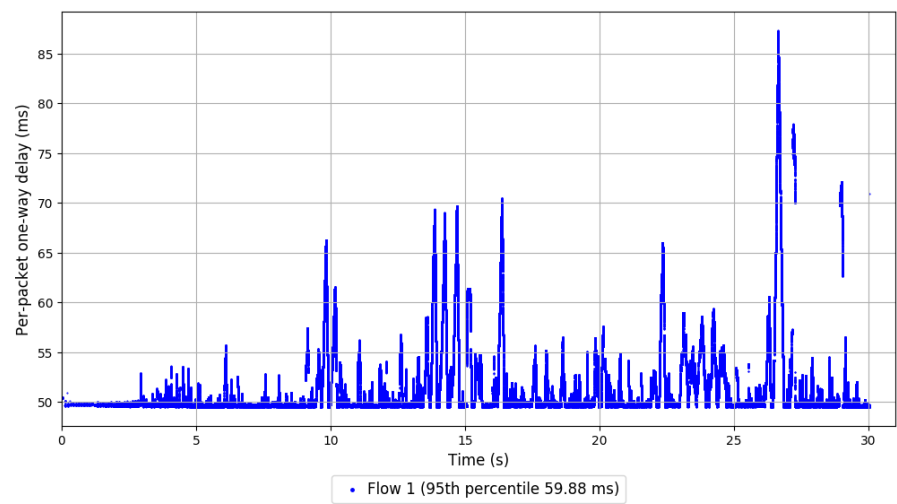
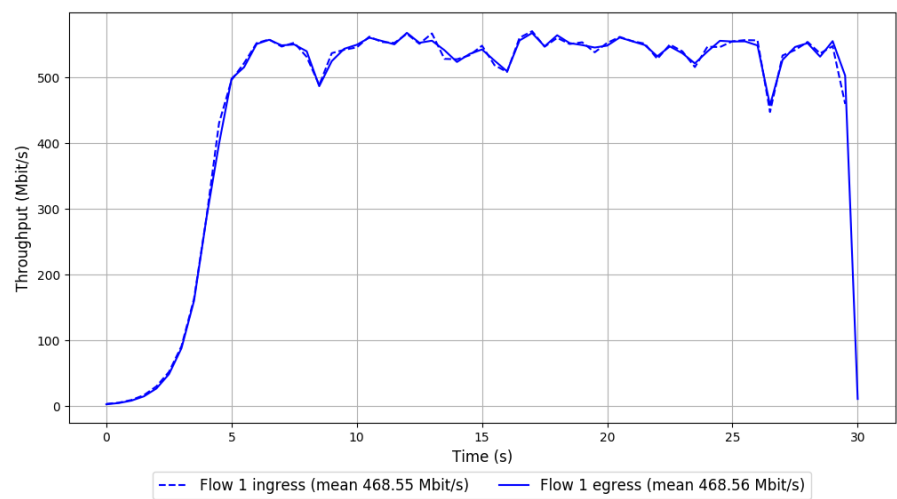
-- Flow 1:

Average throughput: 468.56 Mbit/s

95th percentile per-packet one-way delay: 59.878 ms

Loss rate: 0.00%

Run 3: Report of CalibratedKoho — Data Link



Run 4: Statistics of CalibratedKoho

Start at: 2017-10-11 01:10:34

End at: 2017-10-11 01:11:04

Below is generated by plot.py at 2017-10-11 04:09:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 451.89 Mbit/s

95th percentile per-packet one-way delay: 65.953 ms

Loss rate: 0.00%

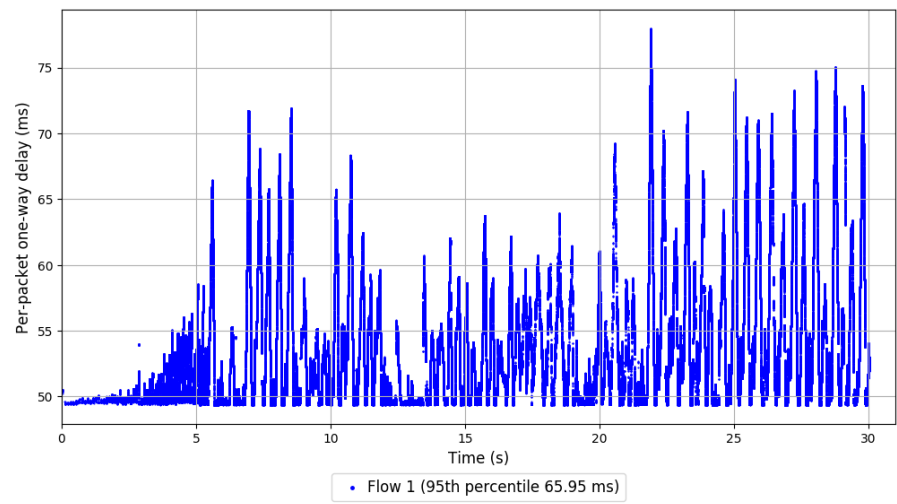
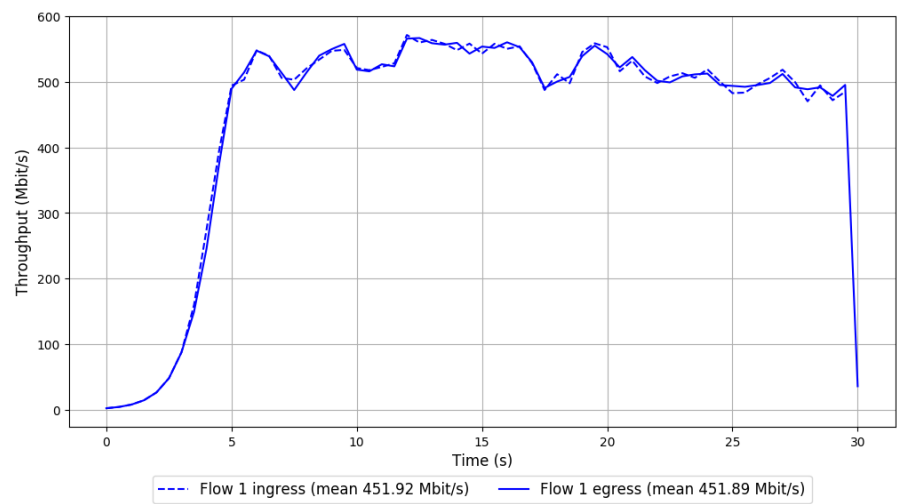
-- Flow 1:

Average throughput: 451.89 Mbit/s

95th percentile per-packet one-way delay: 65.953 ms

Loss rate: 0.00%

Run 4: Report of CalibratedKoho — Data Link



Run 5: Statistics of CalibratedKoho

Start at: 2017-10-11 01:21:15

End at: 2017-10-11 01:21:45

Below is generated by plot.py at 2017-10-11 04:10:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 462.35 Mbit/s

95th percentile per-packet one-way delay: 61.442 ms

Loss rate: 0.35%

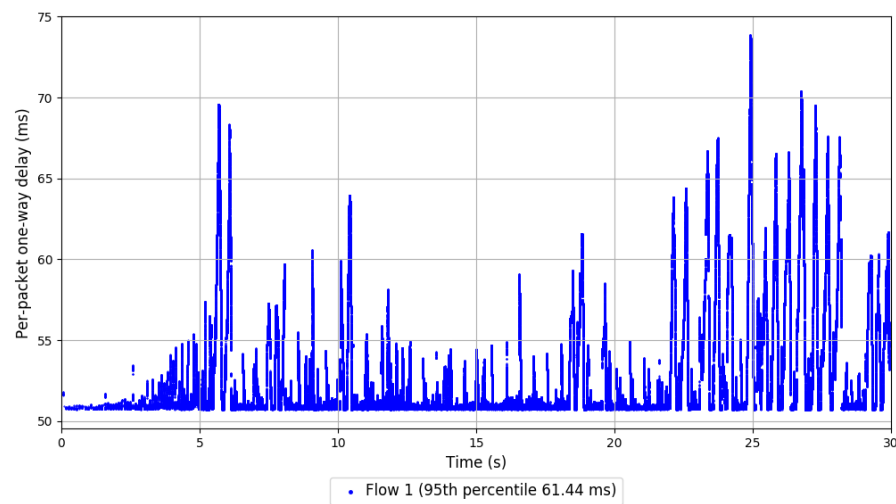
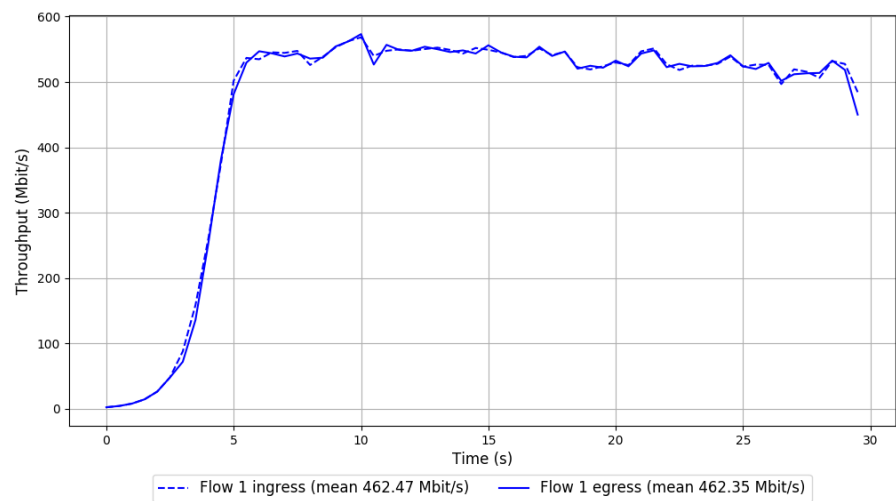
-- Flow 1:

Average throughput: 462.35 Mbit/s

95th percentile per-packet one-way delay: 61.442 ms

Loss rate: 0.35%

Run 5: Report of CalibratedKoho — Data Link



Run 6: Statistics of CalibratedKoho

Start at: 2017-10-11 01:32:02

End at: 2017-10-11 01:32:32

Below is generated by plot.py at 2017-10-11 04:10:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 403.93 Mbit/s

95th percentile per-packet one-way delay: 52.671 ms

Loss rate: 0.00%

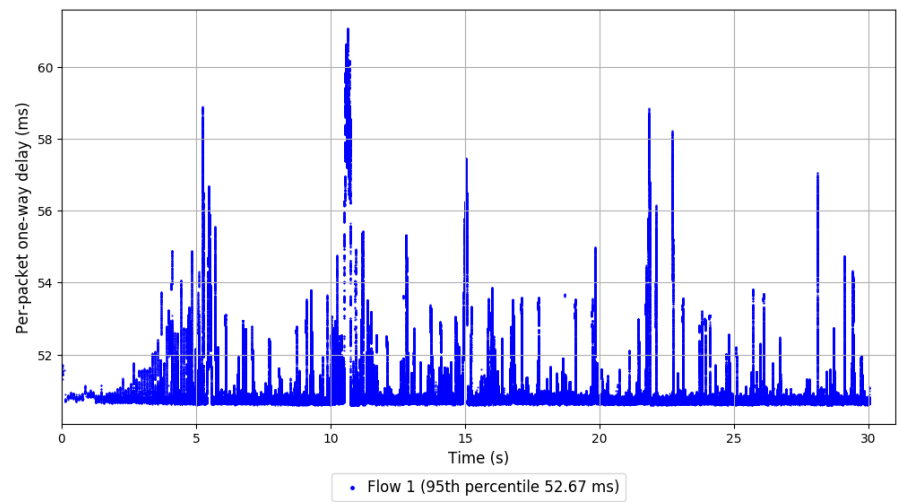
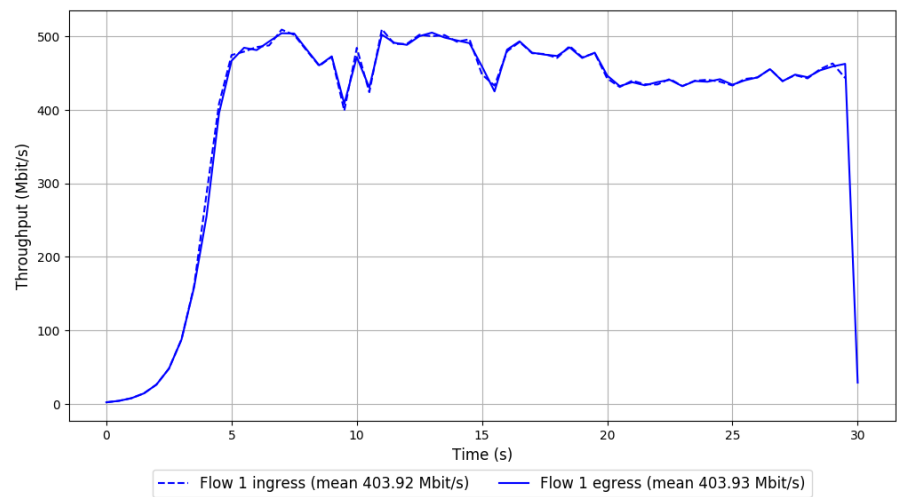
-- Flow 1:

Average throughput: 403.93 Mbit/s

95th percentile per-packet one-way delay: 52.671 ms

Loss rate: 0.00%

Run 6: Report of CalibratedKoho — Data Link



Run 7: Statistics of CalibratedKoho

Start at: 2017-10-11 01:42:42

End at: 2017-10-11 01:43:12

Below is generated by plot.py at 2017-10-11 04:10:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 438.59 Mbit/s

95th percentile per-packet one-way delay: 58.468 ms

Loss rate: 0.01%

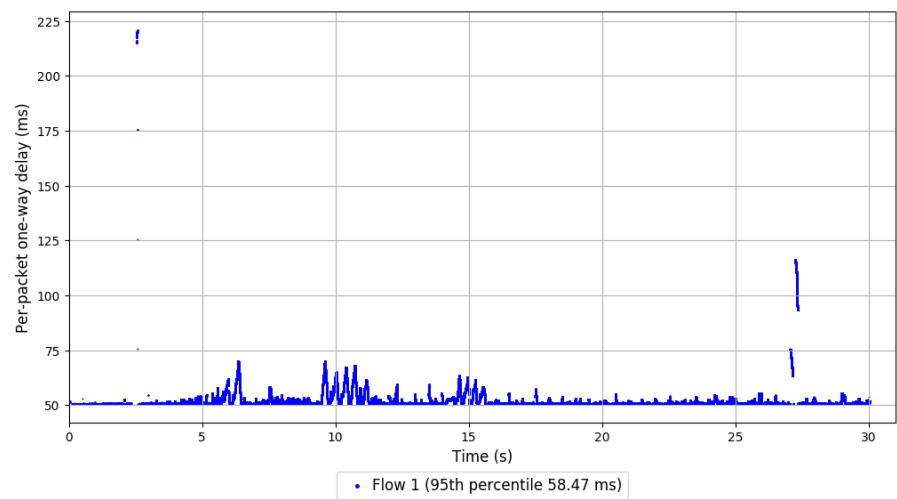
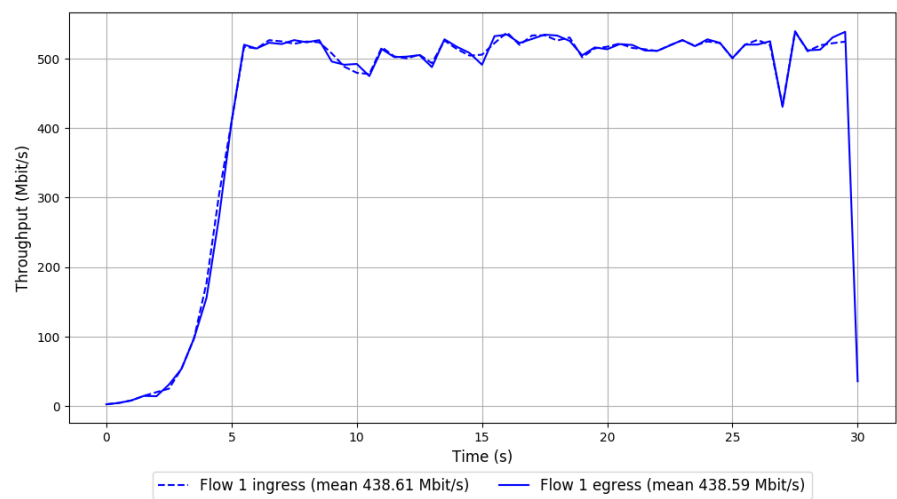
-- Flow 1:

Average throughput: 438.59 Mbit/s

95th percentile per-packet one-way delay: 58.468 ms

Loss rate: 0.01%

Run 7: Report of CalibratedKoho — Data Link



Run 8: Statistics of CalibratedKoho

Start at: 2017-10-11 01:53:28

End at: 2017-10-11 01:53:58

Below is generated by plot.py at 2017-10-11 04:10:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 463.55 Mbit/s

95th percentile per-packet one-way delay: 56.377 ms

Loss rate: 0.01%

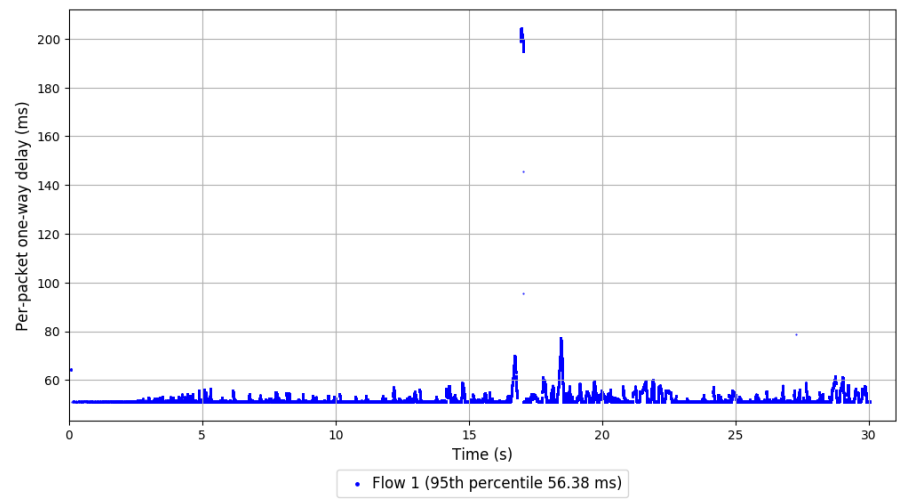
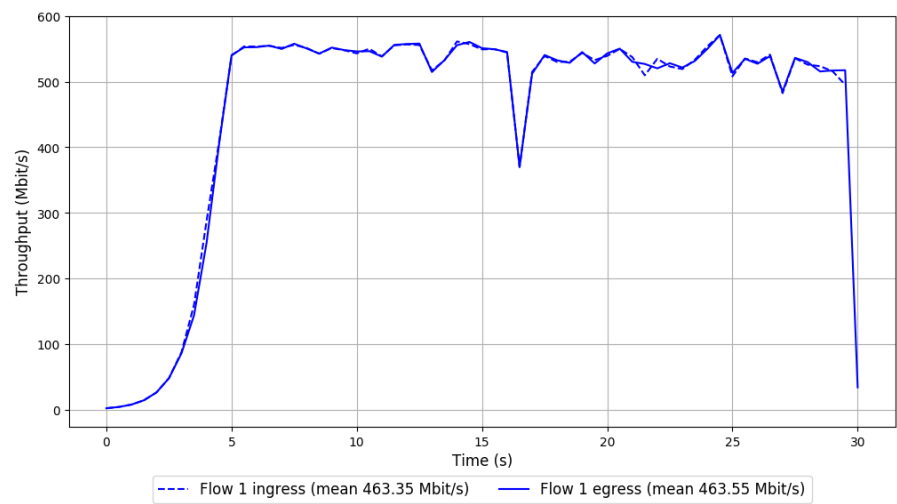
-- Flow 1:

Average throughput: 463.55 Mbit/s

95th percentile per-packet one-way delay: 56.377 ms

Loss rate: 0.01%

Run 8: Report of CalibratedKoho — Data Link



Run 9: Statistics of CalibratedKoho

Start at: 2017-10-11 02:04:09

End at: 2017-10-11 02:04:39

Below is generated by plot.py at 2017-10-11 04:16:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 454.21 Mbit/s

95th percentile per-packet one-way delay: 64.918 ms

Loss rate: 0.01%

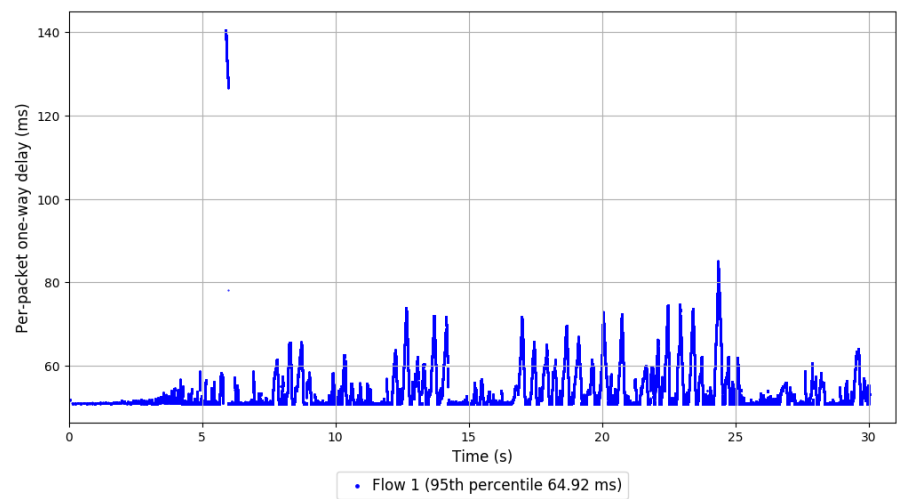
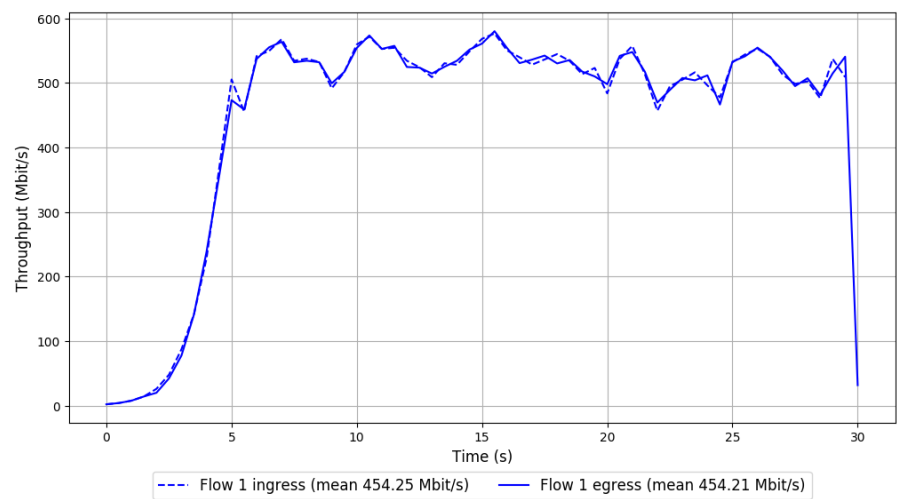
-- Flow 1:

Average throughput: 454.21 Mbit/s

95th percentile per-packet one-way delay: 64.918 ms

Loss rate: 0.01%

Run 9: Report of CalibratedKoho — Data Link



Run 10: Statistics of CalibratedKoho

Start at: 2017-10-11 02:14:49

End at: 2017-10-11 02:15:19

Below is generated by plot.py at 2017-10-11 04:16:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 471.88 Mbit/s

95th percentile per-packet one-way delay: 56.426 ms

Loss rate: 0.00%

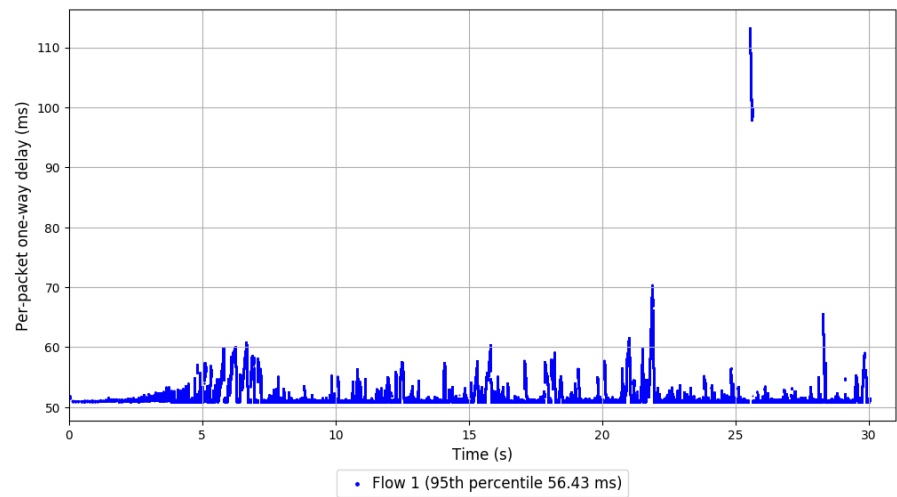
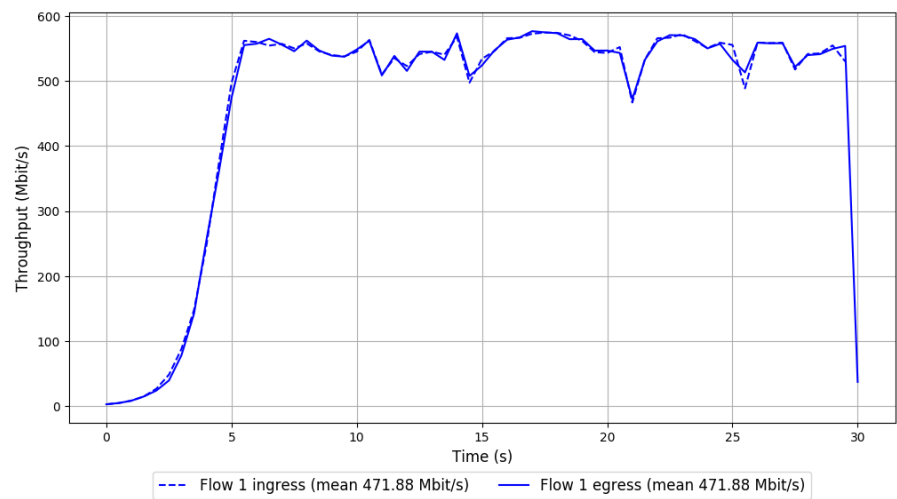
-- Flow 1:

Average throughput: 471.88 Mbit/s

95th percentile per-packet one-way delay: 56.426 ms

Loss rate: 0.00%

Run 10: Report of CalibratedKoho — Data Link

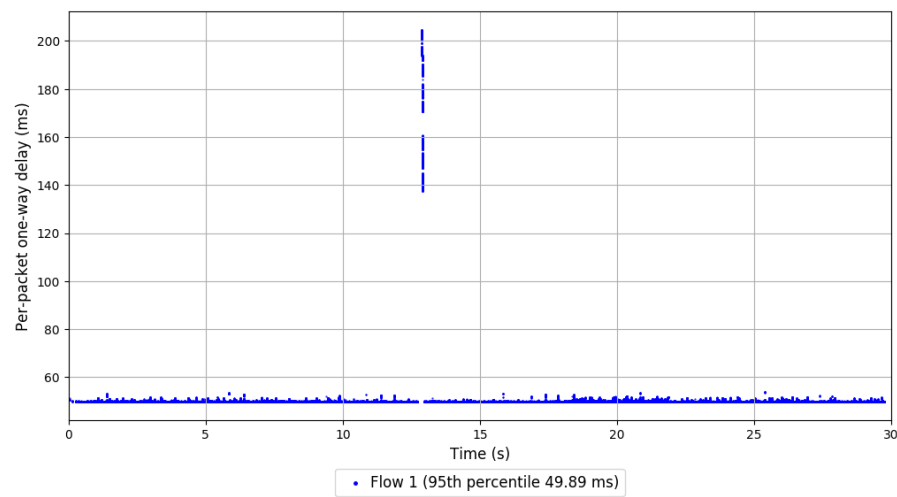
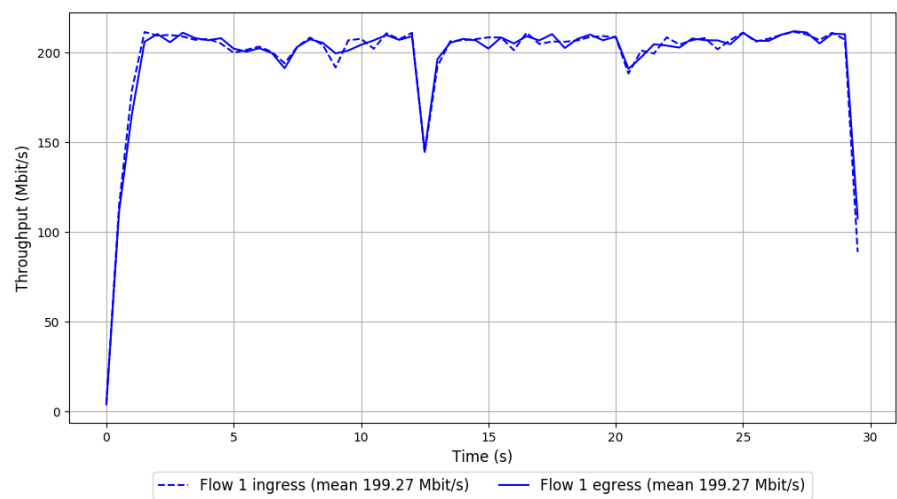


```
Run 1: Statistics of Indigo

Start at: 2017-10-11 00:42:02
End at: 2017-10-11 00:42:32

# Below is generated by plot.py at 2017-10-11 04:16:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 199.27 Mbit/s
95th percentile per-packet one-way delay: 49.892 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 199.27 Mbit/s
95th percentile per-packet one-way delay: 49.892 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo — Data Link

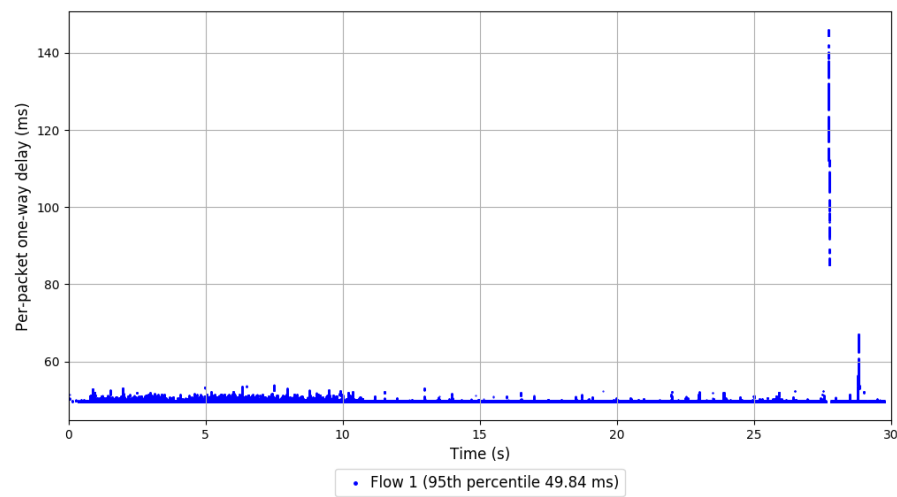
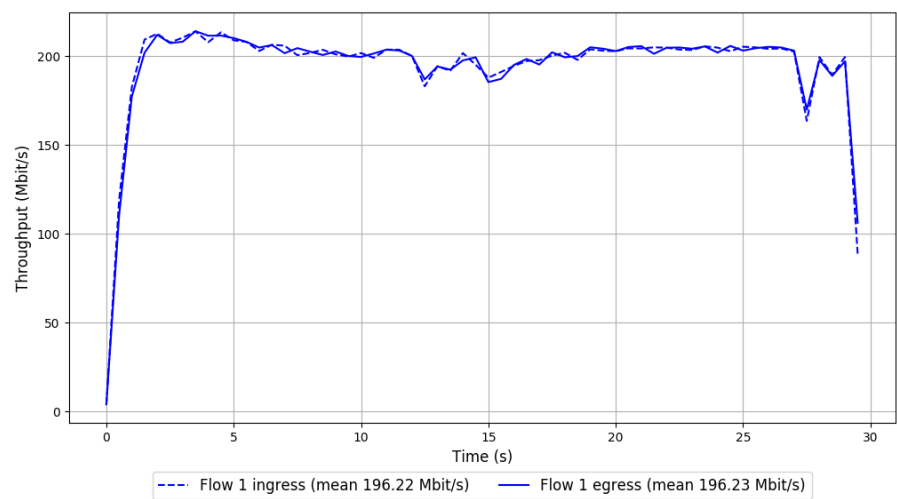


```
Run 2: Statistics of Indigo

Start at: 2017-10-11 00:52:47
End at: 2017-10-11 00:53:17

# Below is generated by plot.py at 2017-10-11 04:16:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 196.23 Mbit/s
95th percentile per-packet one-way delay: 49.838 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 196.23 Mbit/s
95th percentile per-packet one-way delay: 49.838 ms
Loss rate: 0.00%
```

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2017-10-11 01:03:34

End at: 2017-10-11 01:04:04

Below is generated by plot.py at 2017-10-11 04:16:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 200.34 Mbit/s

95th percentile per-packet one-way delay: 49.555 ms

Loss rate: 0.00%

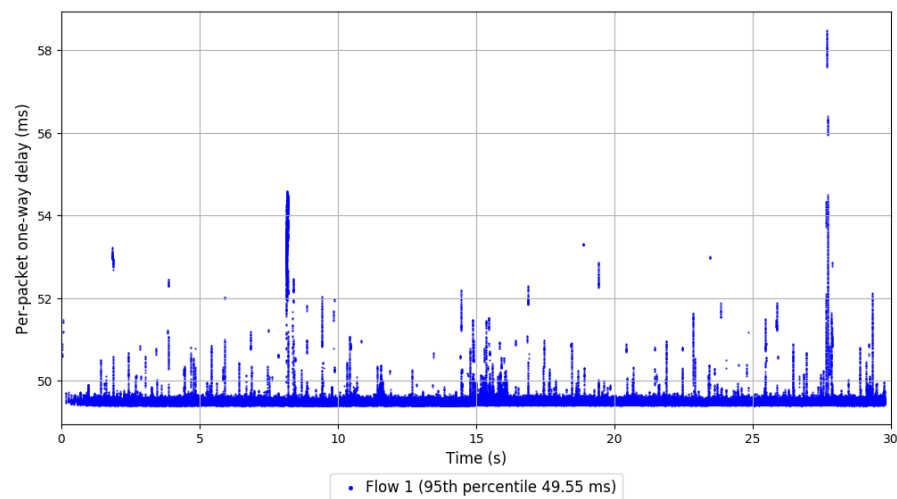
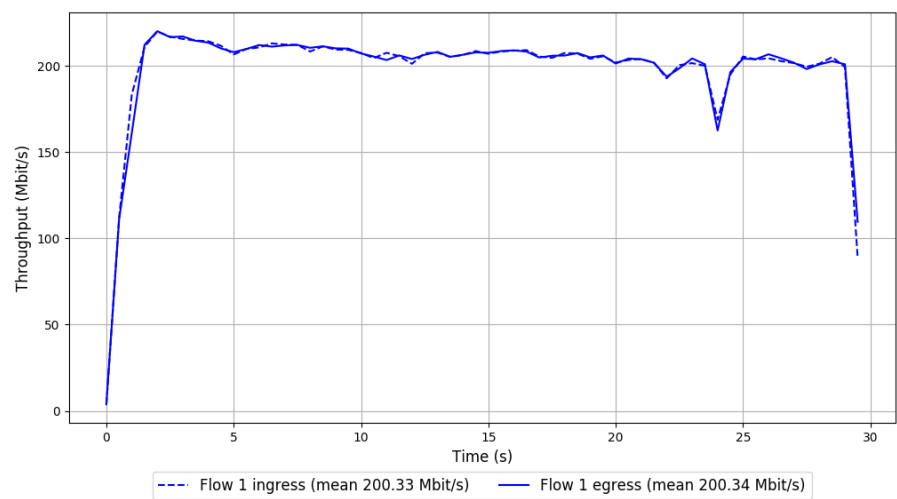
-- Flow 1:

Average throughput: 200.34 Mbit/s

95th percentile per-packet one-way delay: 49.555 ms

Loss rate: 0.00%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2017-10-11 01:14:17

End at: 2017-10-11 01:14:47

Below is generated by plot.py at 2017-10-11 04:16:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 196.70 Mbit/s

95th percentile per-packet one-way delay: 49.455 ms

Loss rate: 0.00%

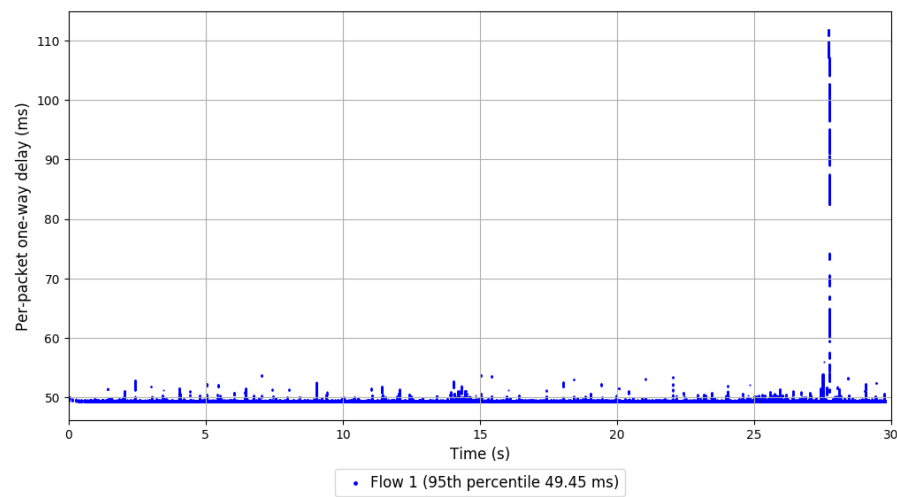
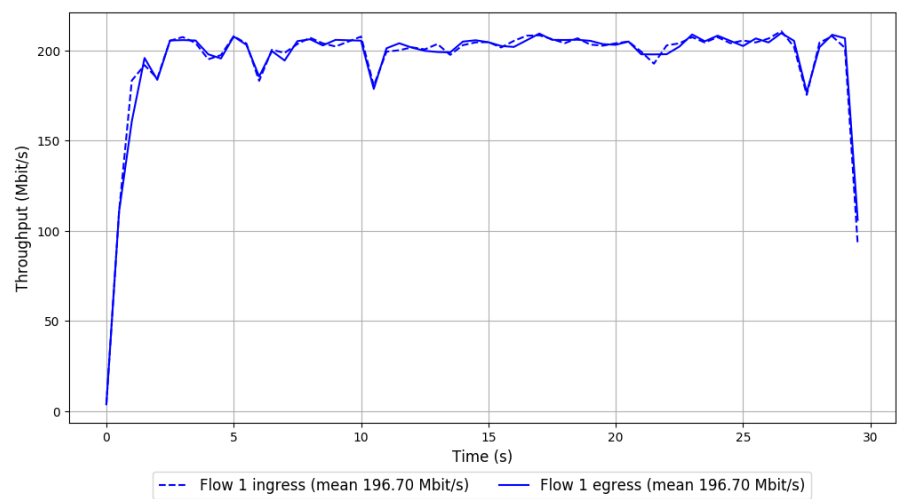
-- Flow 1:

Average throughput: 196.70 Mbit/s

95th percentile per-packet one-way delay: 49.455 ms

Loss rate: 0.00%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2017-10-11 01:25:04

End at: 2017-10-11 01:25:34

Below is generated by plot.py at 2017-10-11 04:16:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 203.23 Mbit/s

95th percentile per-packet one-way delay: 50.810 ms

Loss rate: 0.00%

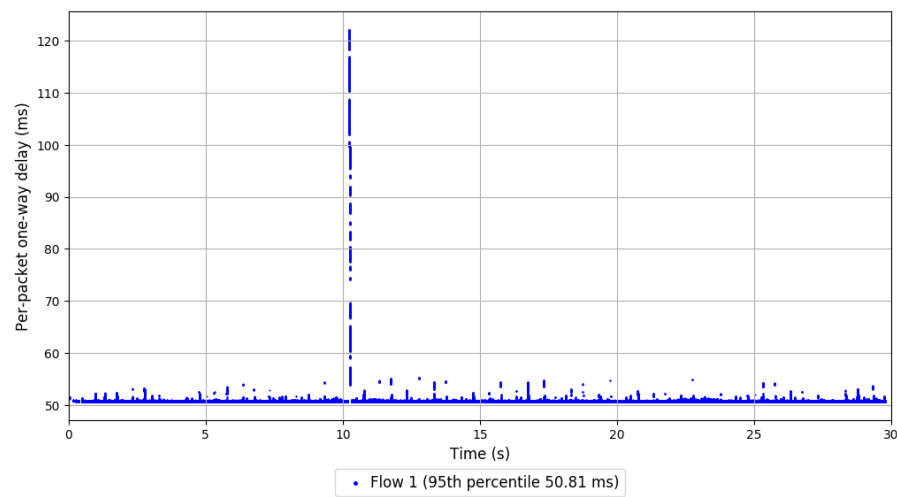
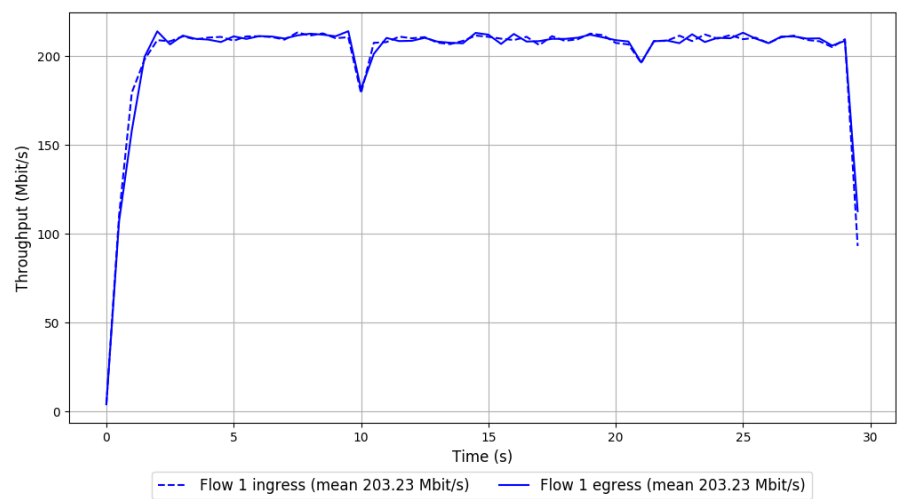
-- Flow 1:

Average throughput: 203.23 Mbit/s

95th percentile per-packet one-way delay: 50.810 ms

Loss rate: 0.00%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2017-10-11 01:35:48

End at: 2017-10-11 01:36:18

Below is generated by plot.py at 2017-10-11 04:16:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 194.58 Mbit/s

95th percentile per-packet one-way delay: 50.697 ms

Loss rate: 0.00%

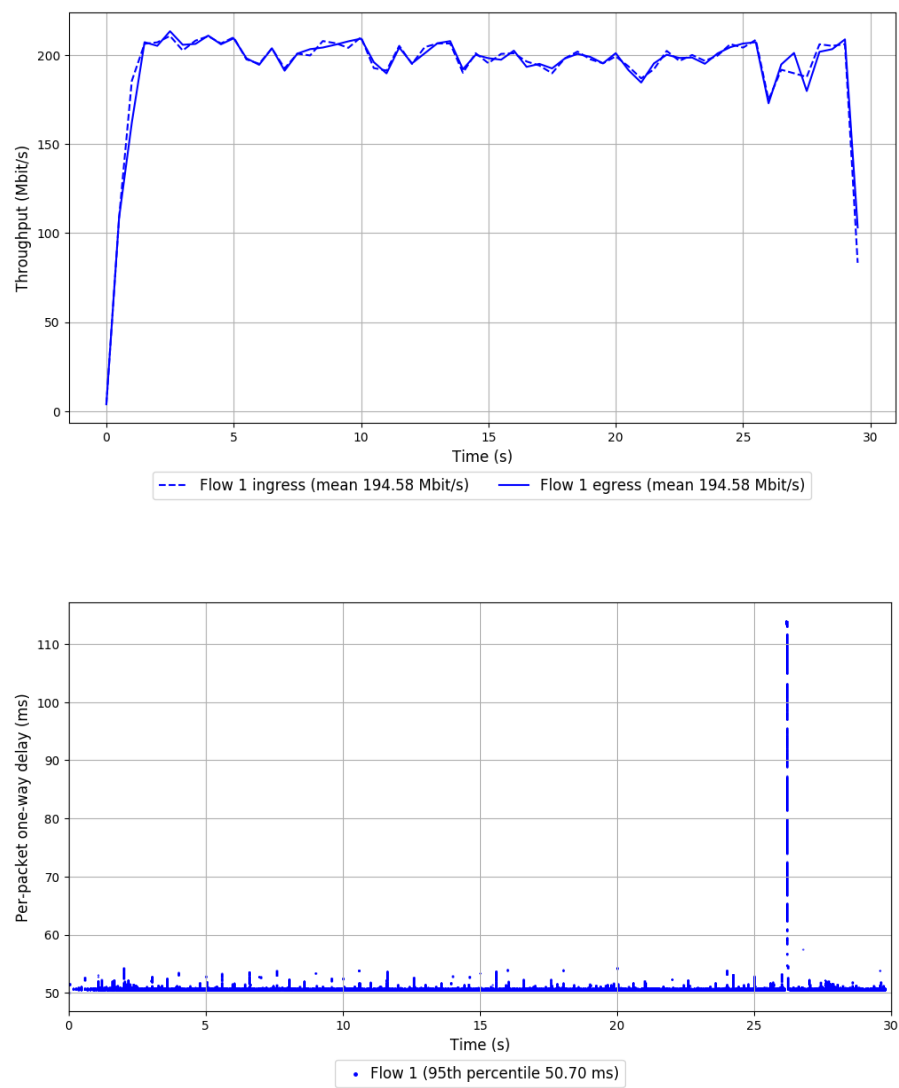
-- Flow 1:

Average throughput: 194.58 Mbit/s

95th percentile per-packet one-way delay: 50.697 ms

Loss rate: 0.00%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2017-10-11 01:46:28

End at: 2017-10-11 01:46:58

Below is generated by plot.py at 2017-10-11 04:16:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 198.57 Mbit/s

95th percentile per-packet one-way delay: 50.878 ms

Loss rate: 0.00%

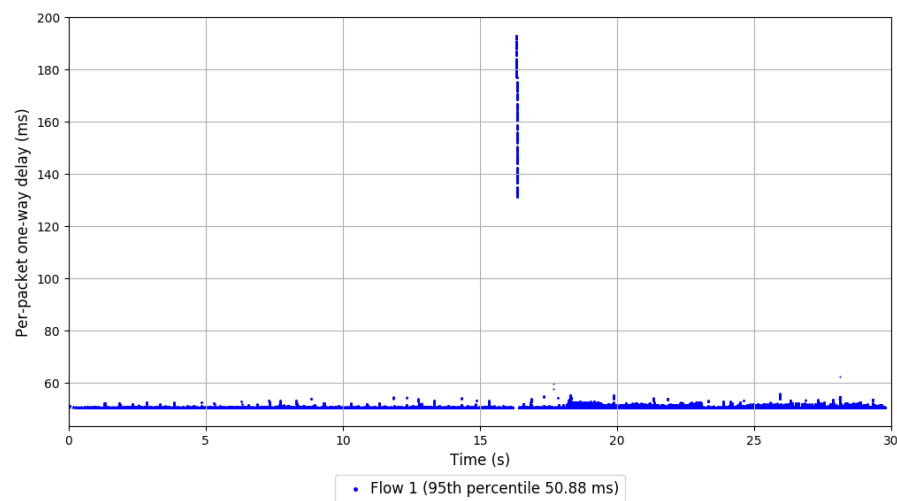
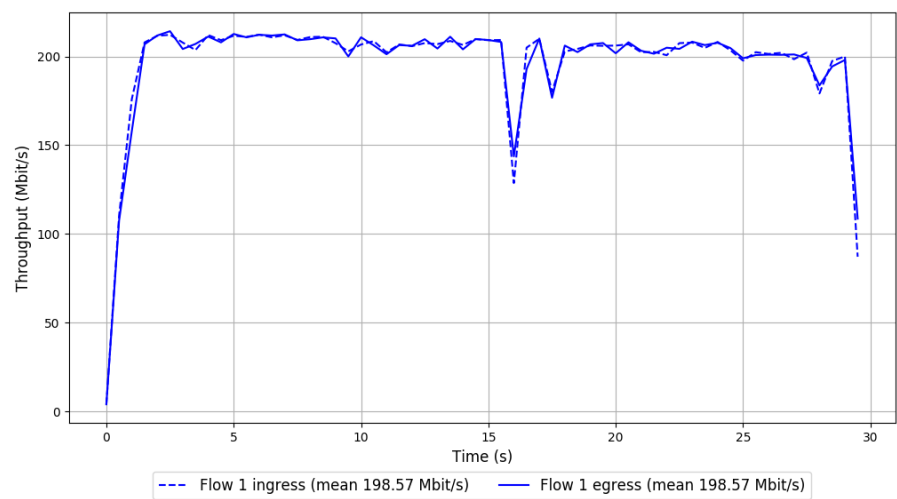
-- Flow 1:

Average throughput: 198.57 Mbit/s

95th percentile per-packet one-way delay: 50.878 ms

Loss rate: 0.00%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2017-10-11 01:57:19

End at: 2017-10-11 01:57:49

Below is generated by plot.py at 2017-10-11 04:16:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 202.64 Mbit/s

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

Loss rate: 0.01%

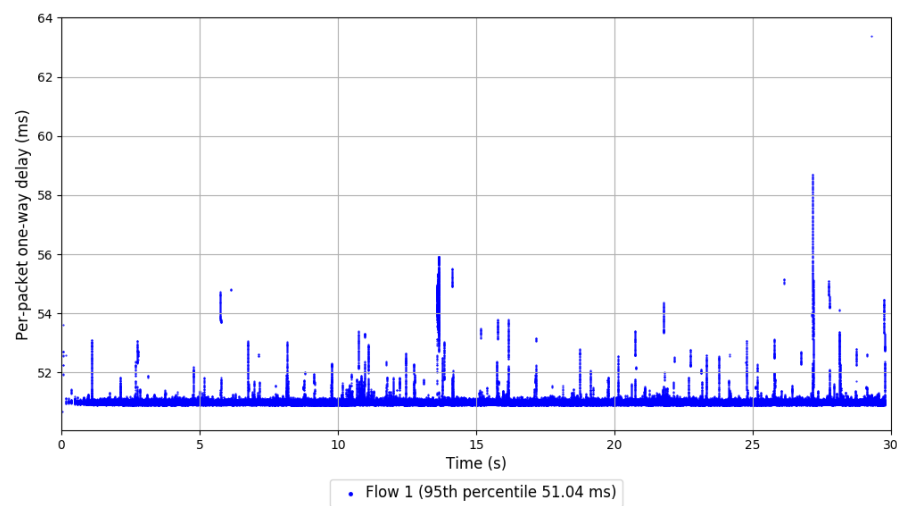
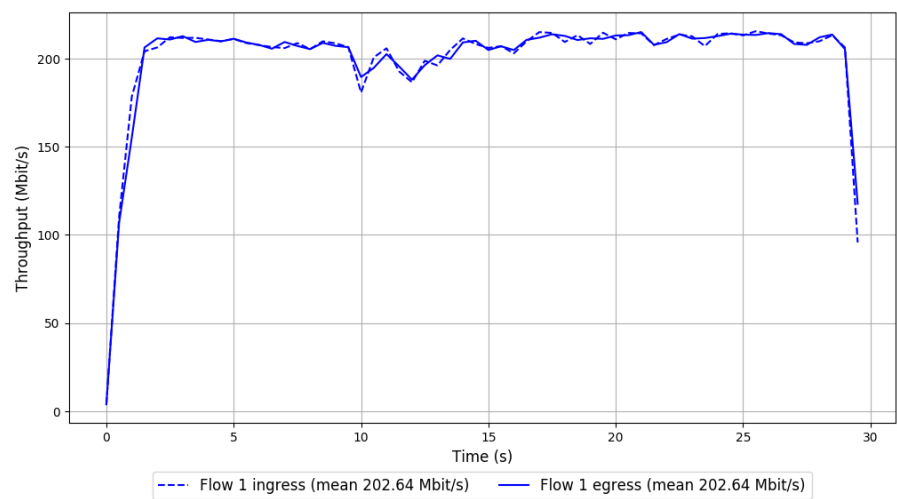
-- Flow 1:

Average throughput: 202.64 Mbit/s

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

Loss rate: 0.01%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2017-10-11 02:07:50

End at: 2017-10-11 02:08:20

Below is generated by plot.py at 2017-10-11 04:16:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 205.01 Mbit/s

95th percentile per-packet one-way delay: 51.022 ms

Loss rate: 0.00%

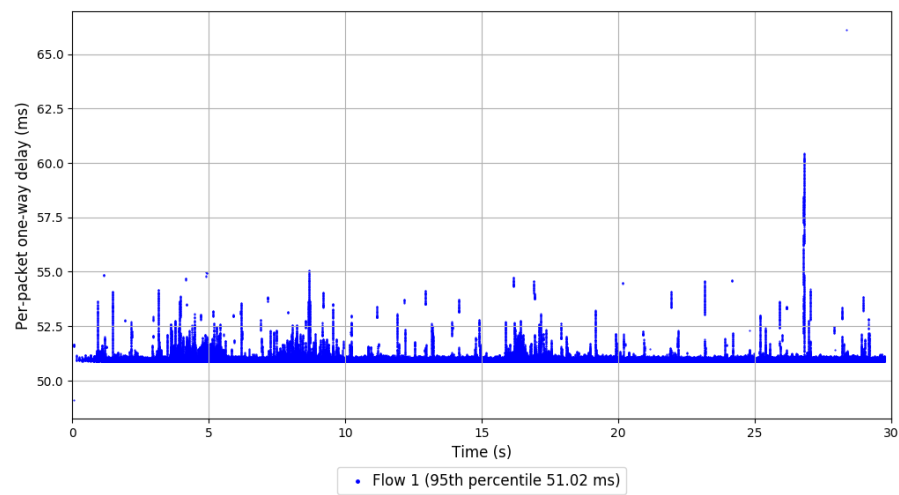
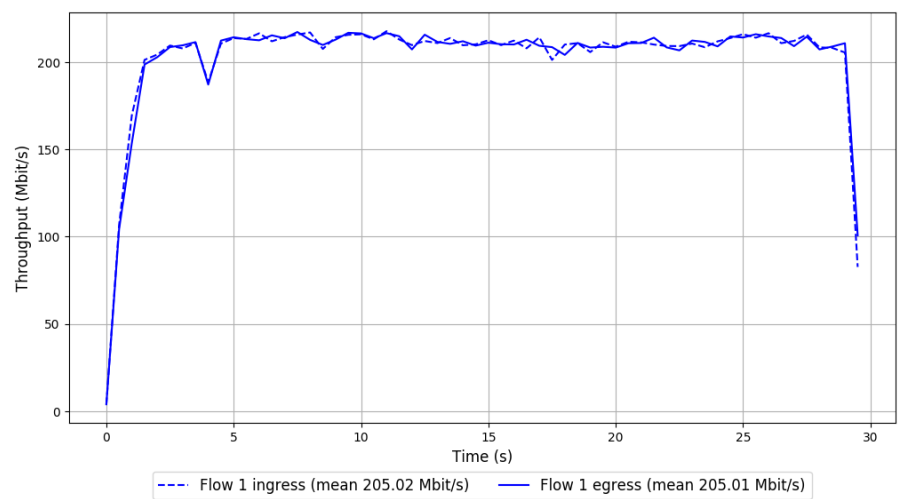
-- Flow 1:

Average throughput: 205.01 Mbit/s

95th percentile per-packet one-way delay: 51.022 ms

Loss rate: 0.00%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2017-10-11 02:18:39

End at: 2017-10-11 02:19:09

Below is generated by plot.py at 2017-10-11 04:16:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 196.99 Mbit/s

95th percentile per-packet one-way delay: 50.975 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 196.99 Mbit/s

95th percentile per-packet one-way delay: 50.975 ms

Loss rate: 0.00%

Run 10: Report of Indigo — Data Link

