

Pantheon Report

Generated at 2017-11-16 05:57:02 (UTC).

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

Repeated the test of 14 congestion control schemes 10 times.

Each test lasted for 30 seconds running 1 flow.

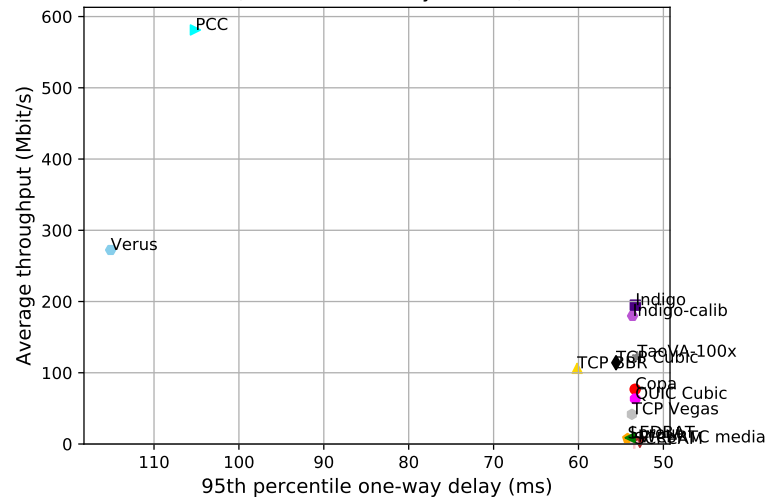
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

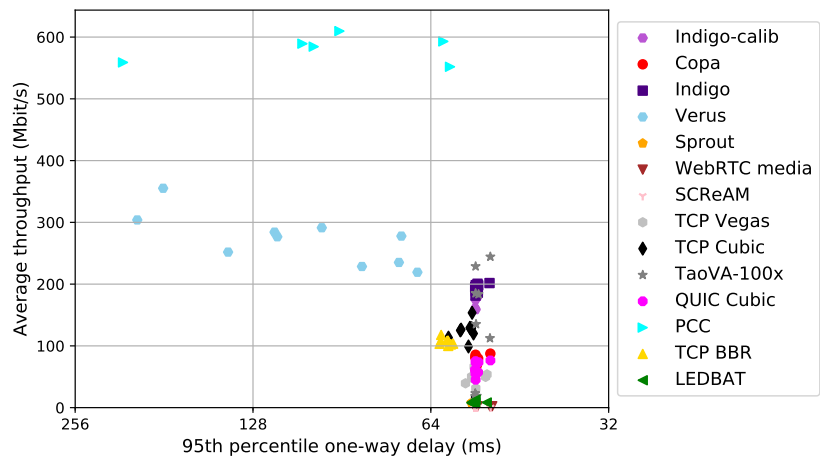
Git summary:

```
branch: indigos @ f54f2953f2a9765c9ffa988d13de5a9471790eb0
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 Sydney Ethernet to GCE Tokyo Ethernet, 10 runs of 30s each per scheme
(mean of all runs by scheme)



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



scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	10	106.25	60.16	0.10
TCP Cubic	10	114.10	55.58	0.04
LEDBAT	8	8.75	53.92	0.11
PCC	6	581.21	105.12	0.47
QUIC Cubic	10	63.43	53.32	0.00
SCReAM	10	0.21	53.43	0.01
WebRTC media	10	2.29	52.77	0.00
Sprout	10	7.83	54.22	0.04
TaoVA-100x	10	122.52	53.07	0.00
TCP Vegas	10	41.69	53.71	0.05
Verus	10	272.36	115.11	0.33
Copa	10	76.86	53.32	0.01
Indigo	10	194.90	53.30	0.00
Indigo-calib	9	179.82	53.63	0.02

Run 1: Statistics of TCP BBR

Start at: 2017-11-16 02:57:48

End at: 2017-11-16 02:58:18

Below is generated by plot.py at 2017-11-16 05:21:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 108.41 Mbit/s

95th percentile per-packet one-way delay: 59.897 ms

Loss rate: 0.01%

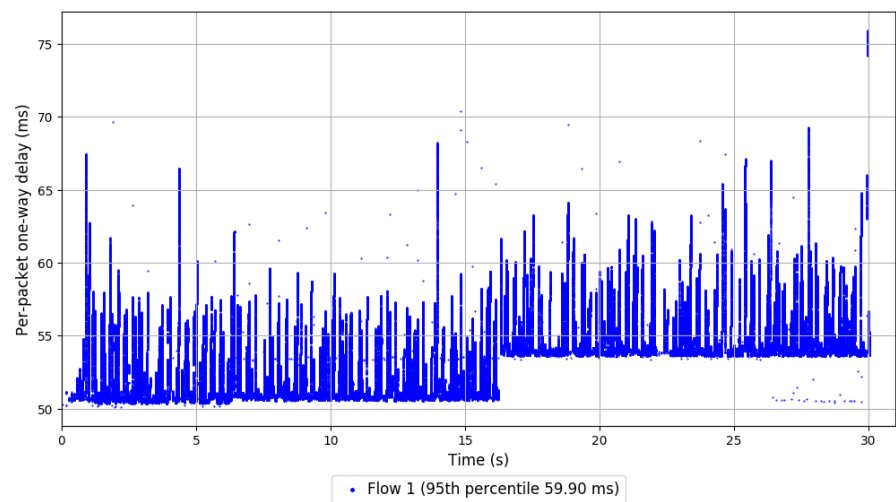
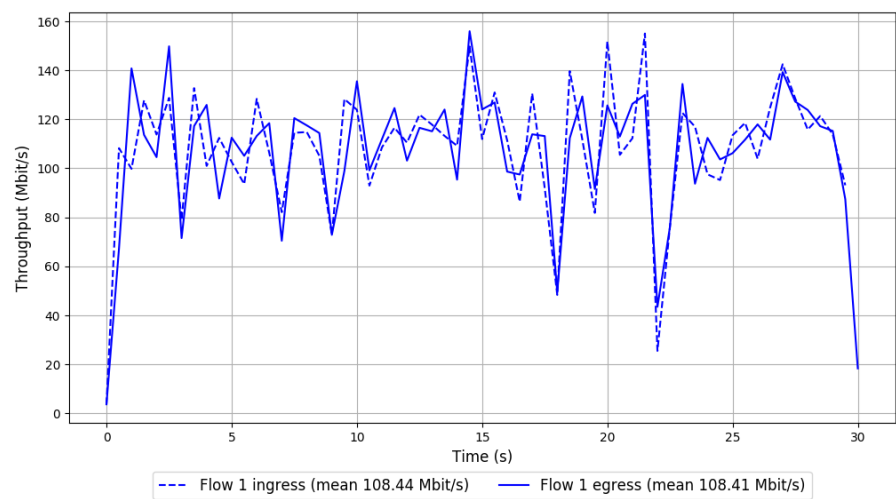
-- Flow 1:

Average throughput: 108.41 Mbit/s

95th percentile per-packet one-way delay: 59.897 ms

Loss rate: 0.01%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2017-11-16 03:08:29

End at: 2017-11-16 03:08:59

Below is generated by plot.py at 2017-11-16 05:22:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 117.79 Mbit/s

95th percentile per-packet one-way delay: 61.469 ms

Loss rate: 0.01%

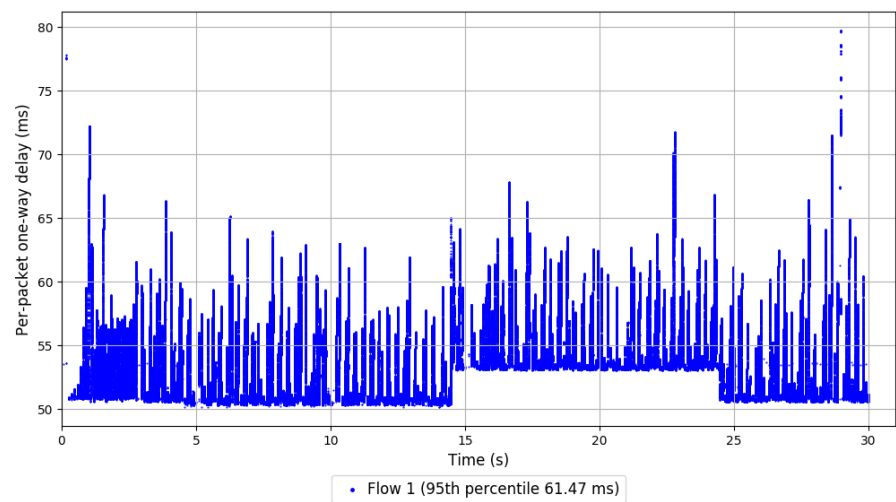
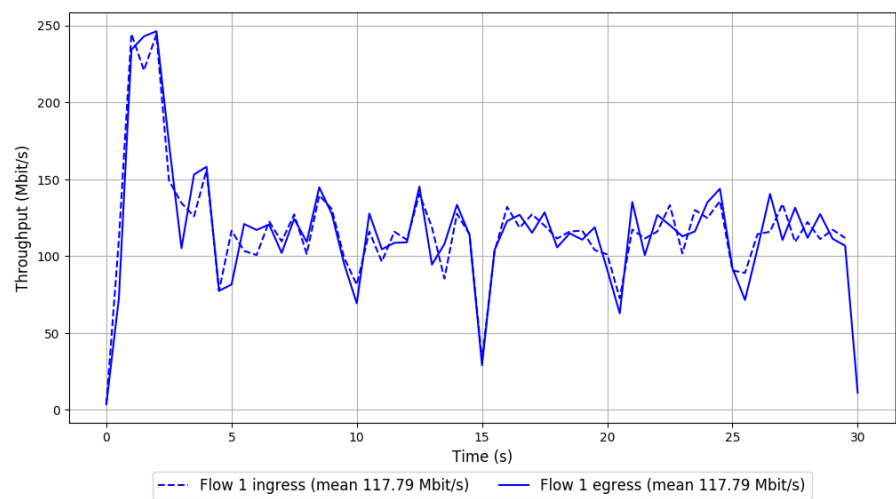
-- Flow 1:

Average throughput: 117.79 Mbit/s

95th percentile per-packet one-way delay: 61.469 ms

Loss rate: 0.01%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2017-11-16 03:18:56

End at: 2017-11-16 03:19:26

Below is generated by plot.py at 2017-11-16 05:22:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 107.88 Mbit/s

95th percentile per-packet one-way delay: 60.113 ms

Loss rate: 0.38%

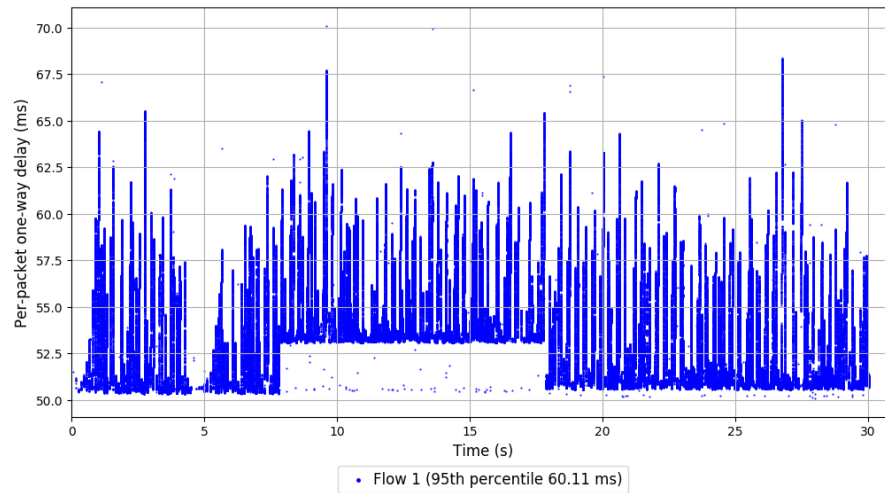
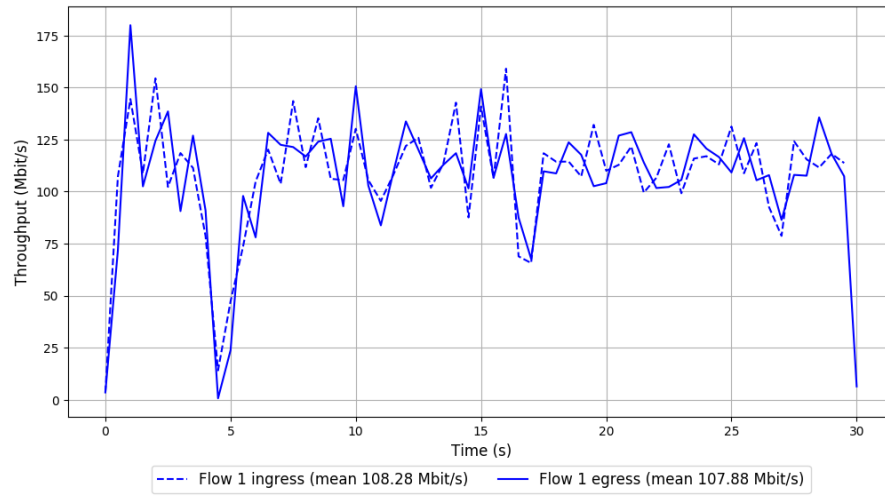
-- Flow 1:

Average throughput: 107.88 Mbit/s

95th percentile per-packet one-way delay: 60.113 ms

Loss rate: 0.38%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2017-11-16 03:29:05

End at: 2017-11-16 03:29:35

Below is generated by plot.py at 2017-11-16 05:22:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 102.59 Mbit/s

95th percentile per-packet one-way delay: 59.183 ms

Loss rate: 0.30%

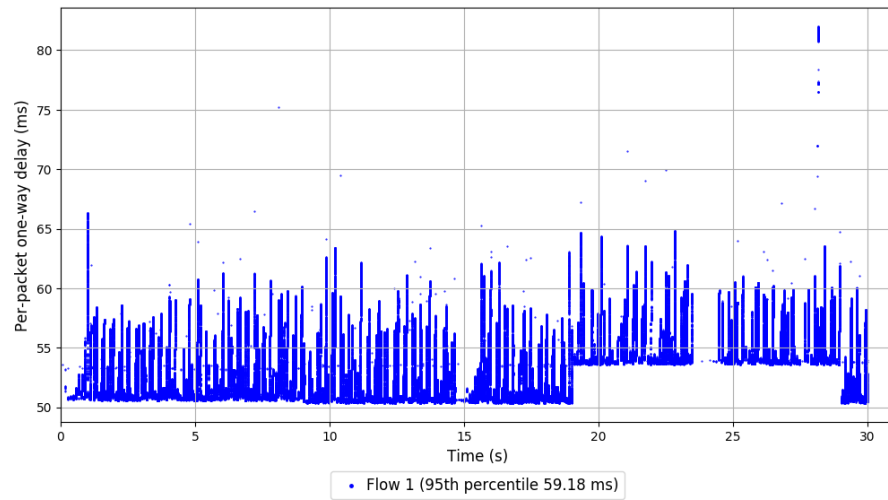
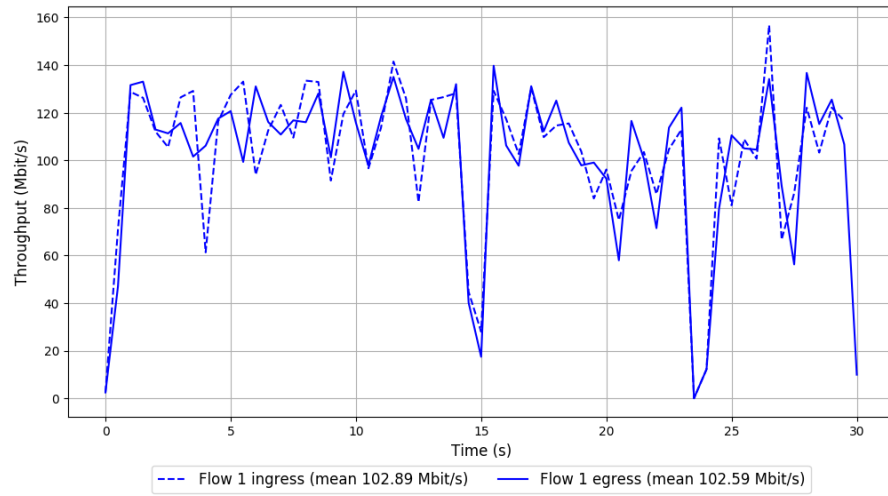
-- Flow 1:

Average throughput: 102.59 Mbit/s

95th percentile per-packet one-way delay: 59.183 ms

Loss rate: 0.30%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2017-11-16 03:39:30

End at: 2017-11-16 03:40:00

Below is generated by plot.py at 2017-11-16 05:22:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 108.18 Mbit/s

95th percentile per-packet one-way delay: 59.808 ms

Loss rate: 0.01%

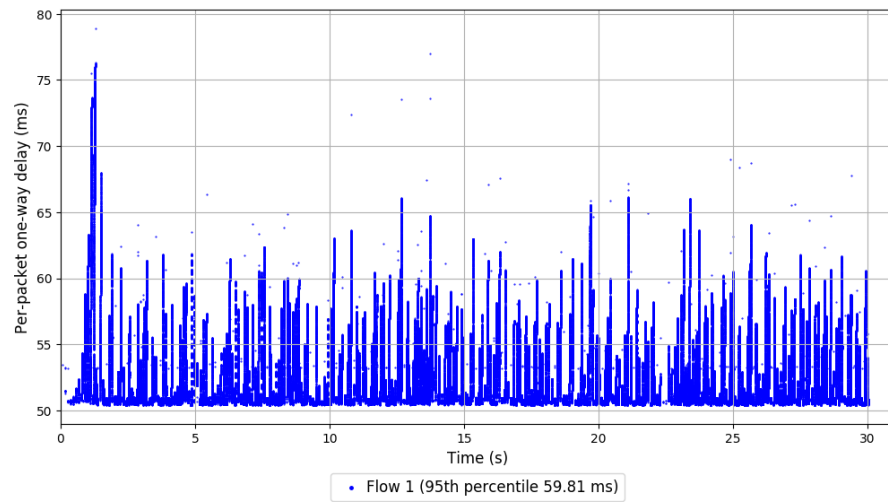
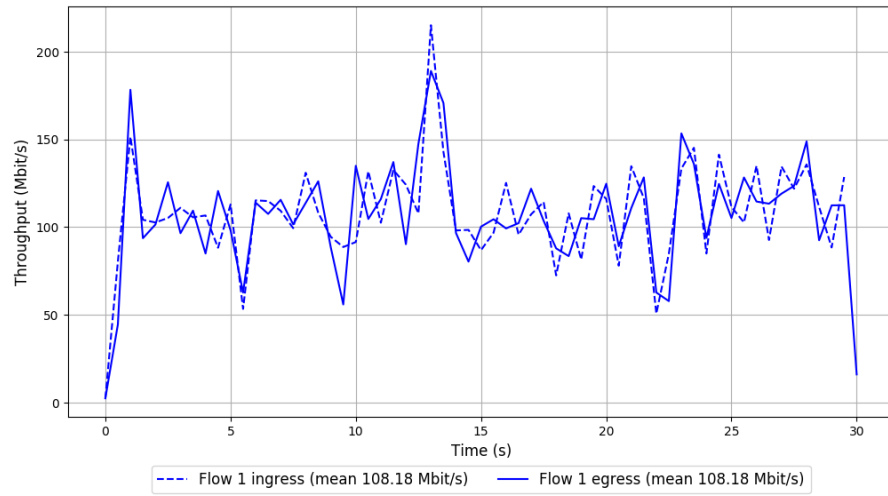
-- Flow 1:

Average throughput: 108.18 Mbit/s

95th percentile per-packet one-way delay: 59.808 ms

Loss rate: 0.01%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2017-11-16 03:49:47

End at: 2017-11-16 03:50:17

Below is generated by plot.py at 2017-11-16 05:22:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 99.90 Mbit/s

95th percentile per-packet one-way delay: 59.801 ms

Loss rate: 0.15%

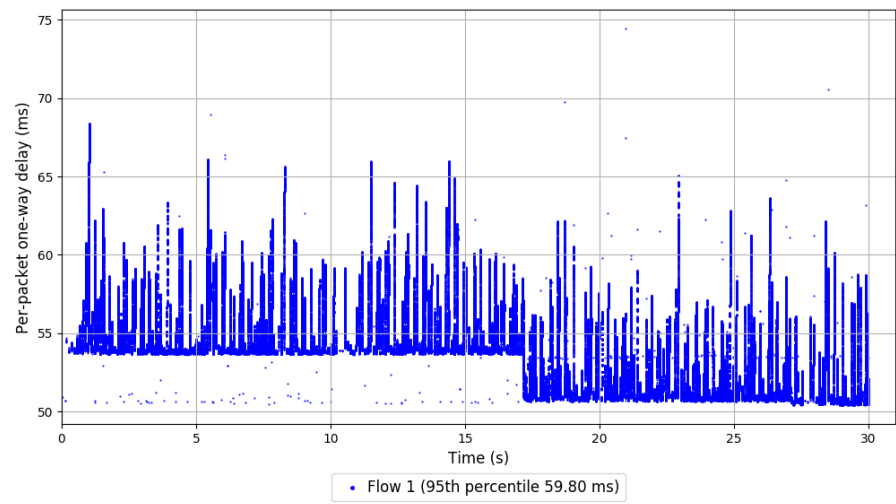
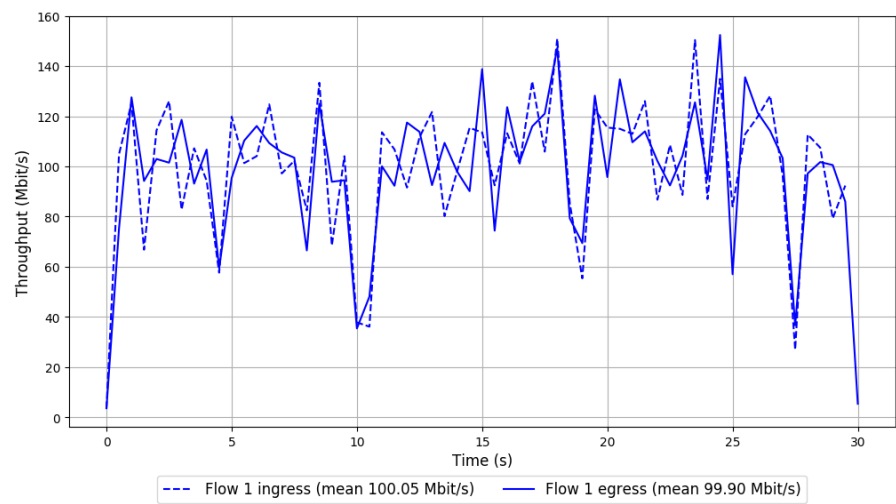
-- Flow 1:

Average throughput: 99.90 Mbit/s

95th percentile per-packet one-way delay: 59.801 ms

Loss rate: 0.15%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2017-11-16 03:59:40

End at: 2017-11-16 04:00:10

Below is generated by plot.py at 2017-11-16 05:22:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 108.09 Mbit/s

95th percentile per-packet one-way delay: 61.579 ms

Loss rate: 0.12%

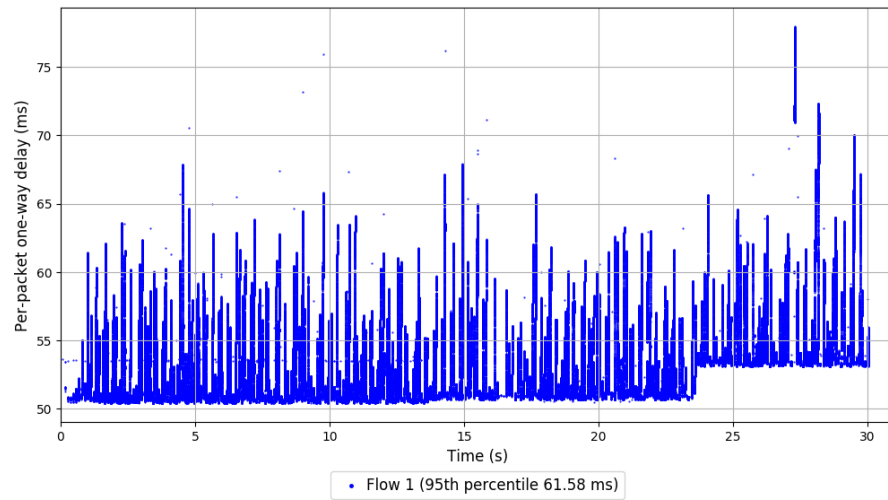
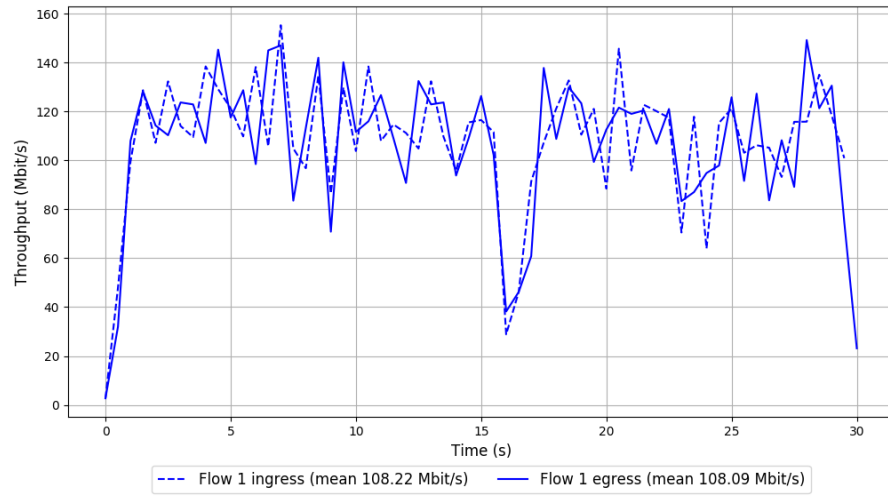
-- Flow 1:

Average throughput: 108.09 Mbit/s

95th percentile per-packet one-way delay: 61.579 ms

Loss rate: 0.12%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2017-11-16 04:09:32

End at: 2017-11-16 04:10:02

Below is generated by plot.py at 2017-11-16 05:22:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 103.33 Mbit/s

95th percentile per-packet one-way delay: 61.846 ms

Loss rate: 0.00%

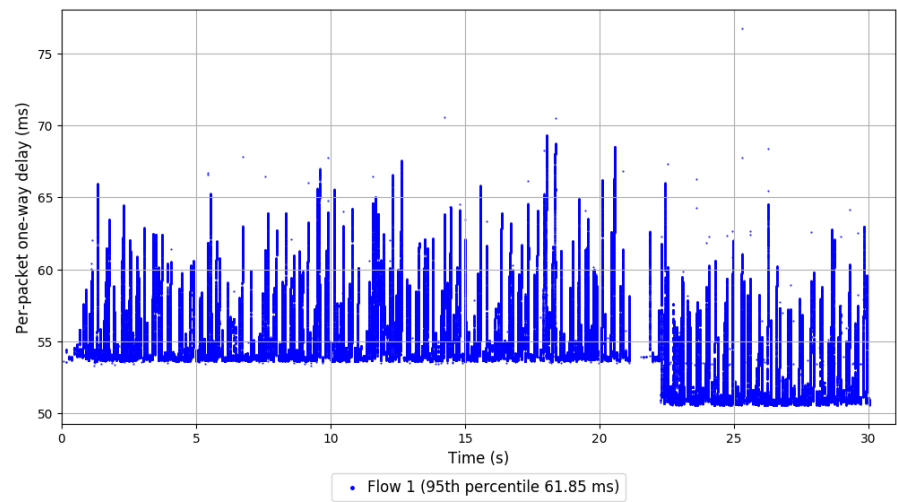
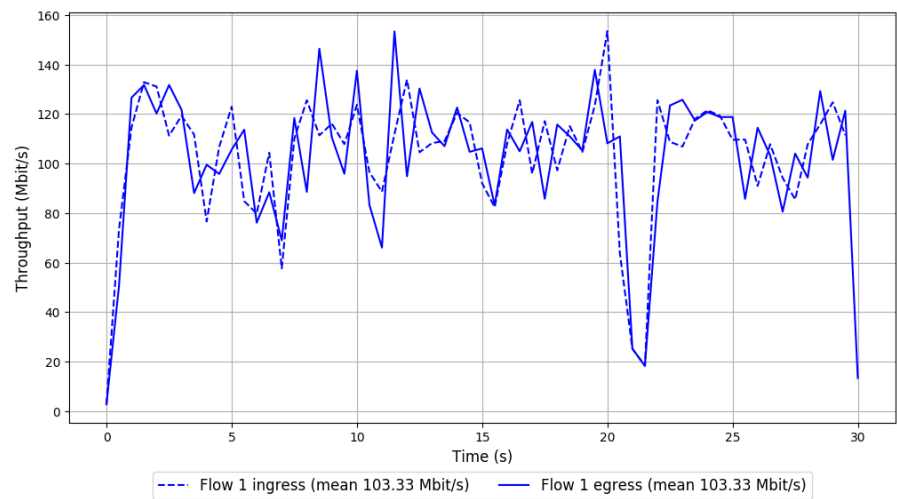
-- Flow 1:

Average throughput: 103.33 Mbit/s

95th percentile per-packet one-way delay: 61.846 ms

Loss rate: 0.00%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2017-11-16 04:19:47

End at: 2017-11-16 04:20:17

Below is generated by plot.py at 2017-11-16 05:23:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 102.75 Mbit/s

95th percentile per-packet one-way delay: 59.215 ms

Loss rate: 0.00%

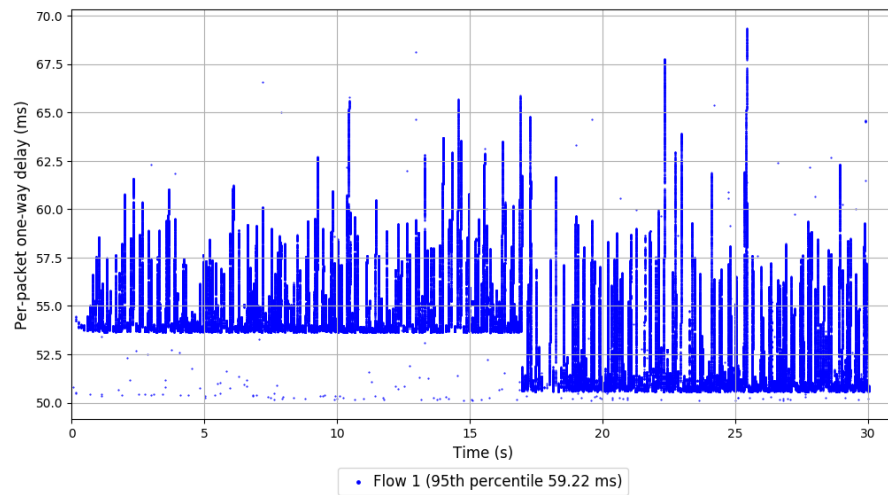
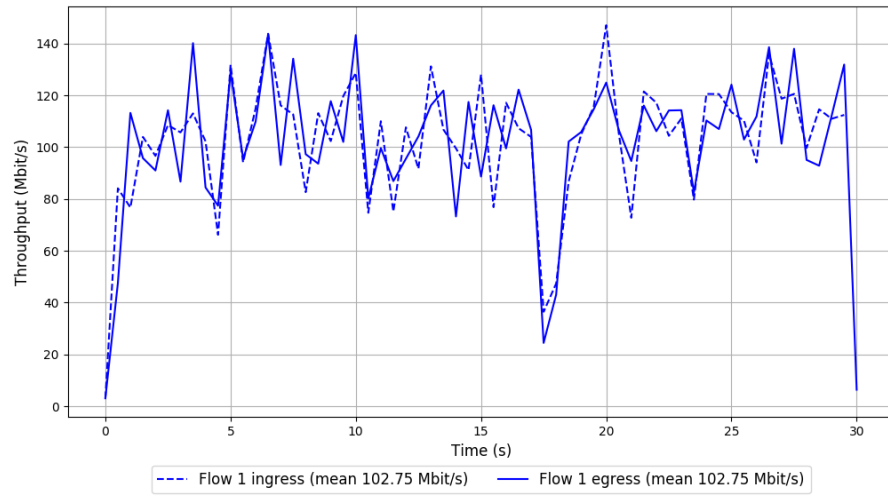
-- Flow 1:

Average throughput: 102.75 Mbit/s

95th percentile per-packet one-way delay: 59.215 ms

Loss rate: 0.00%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2017-11-16 04:29:48

End at: 2017-11-16 04:30:18

Below is generated by plot.py at 2017-11-16 05:23:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 103.63 Mbit/s

95th percentile per-packet one-way delay: 58.668 ms

Loss rate: 0.01%

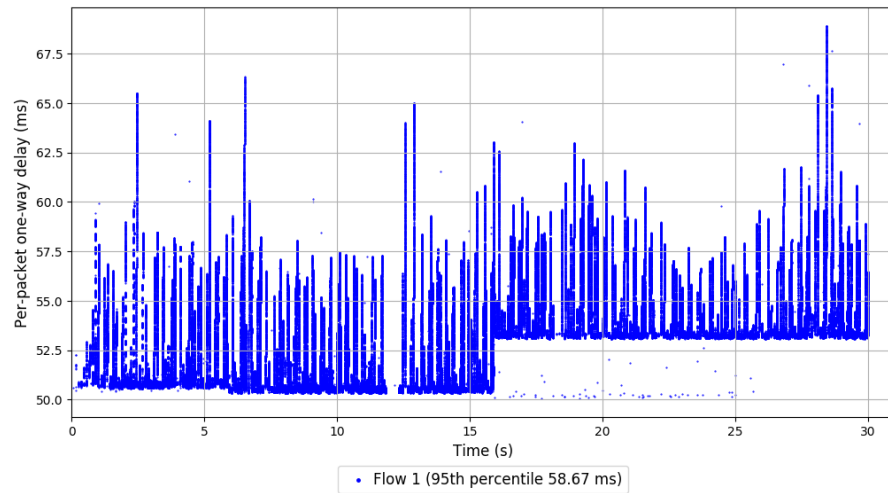
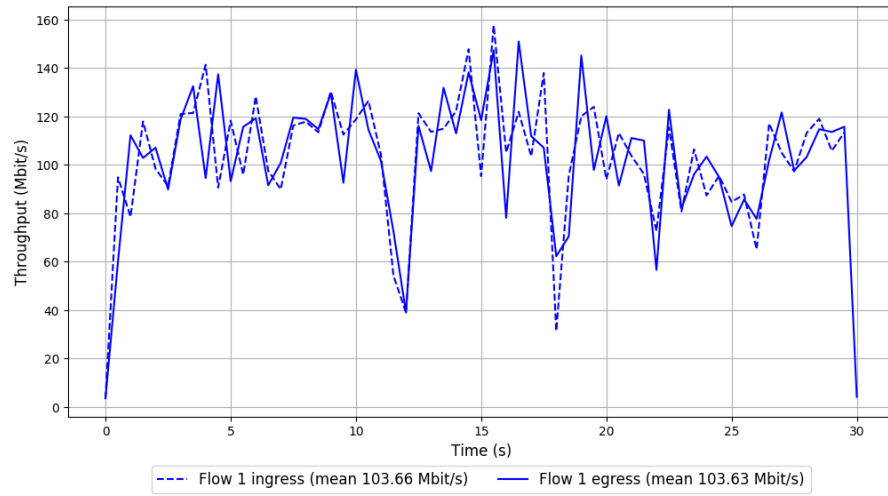
-- Flow 1:

Average throughput: 103.63 Mbit/s

95th percentile per-packet one-way delay: 58.668 ms

Loss rate: 0.01%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2017-11-16 03:00:49

End at: 2017-11-16 03:01:19

Below is generated by plot.py at 2017-11-16 05:24:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 153.55 Mbit/s

95th percentile per-packet one-way delay: 54.487 ms

Loss rate: 0.00%

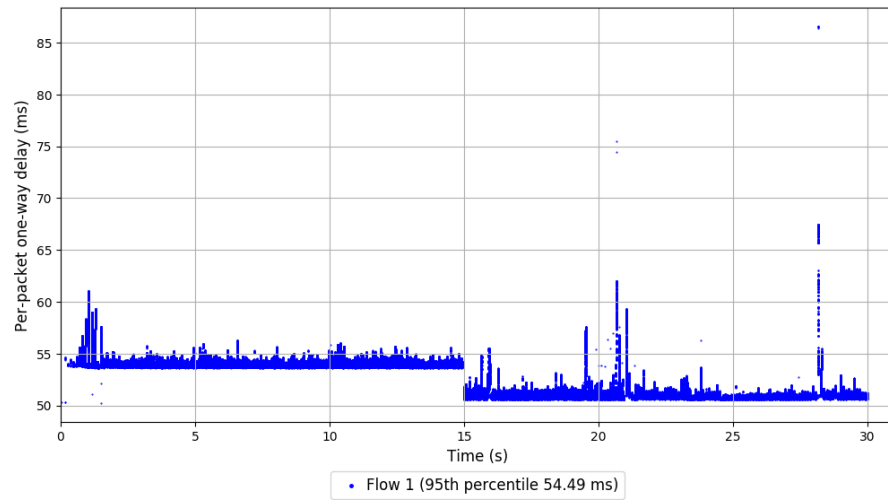
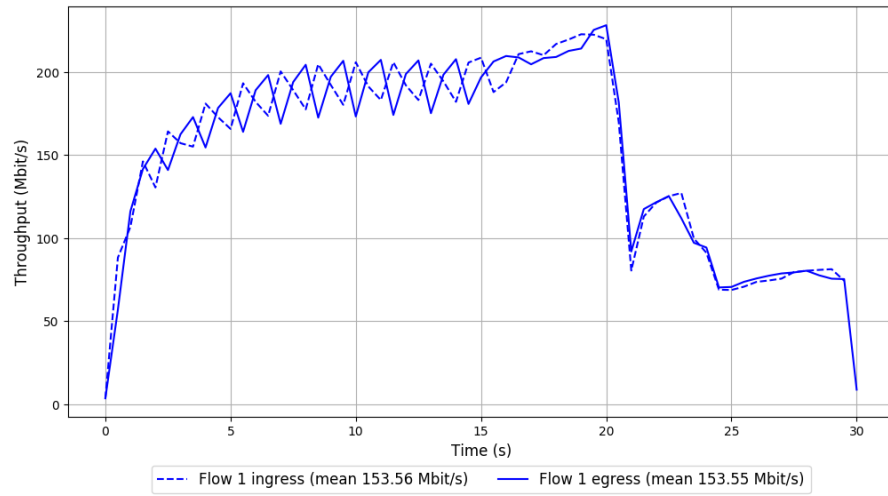
-- Flow 1:

Average throughput: 153.55 Mbit/s

95th percentile per-packet one-way delay: 54.487 ms

Loss rate: 0.00%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2017-11-16 03:11:26

End at: 2017-11-16 03:11:56

Below is generated by plot.py at 2017-11-16 05:24:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 126.37 Mbit/s

95th percentile per-packet one-way delay: 56.877 ms

Loss rate: 0.00%

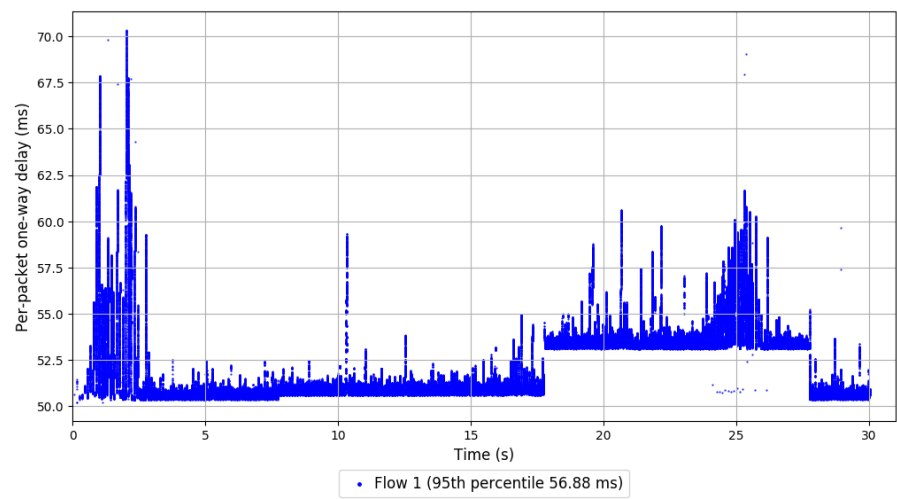
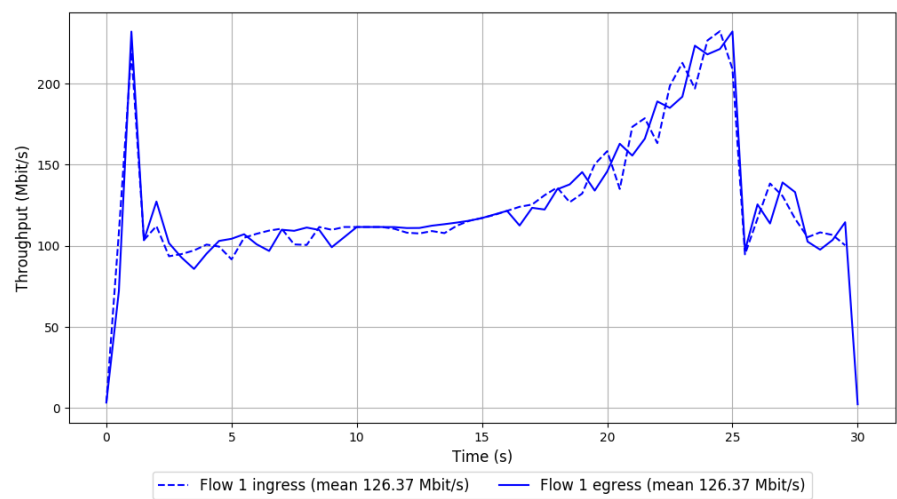
-- Flow 1:

Average throughput: 126.37 Mbit/s

95th percentile per-packet one-way delay: 56.877 ms

Loss rate: 0.00%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2017-11-16 03:21:55

End at: 2017-11-16 03:22:25

Below is generated by plot.py at 2017-11-16 05:24:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 120.05 Mbit/s

95th percentile per-packet one-way delay: 54.190 ms

Loss rate: 0.00%

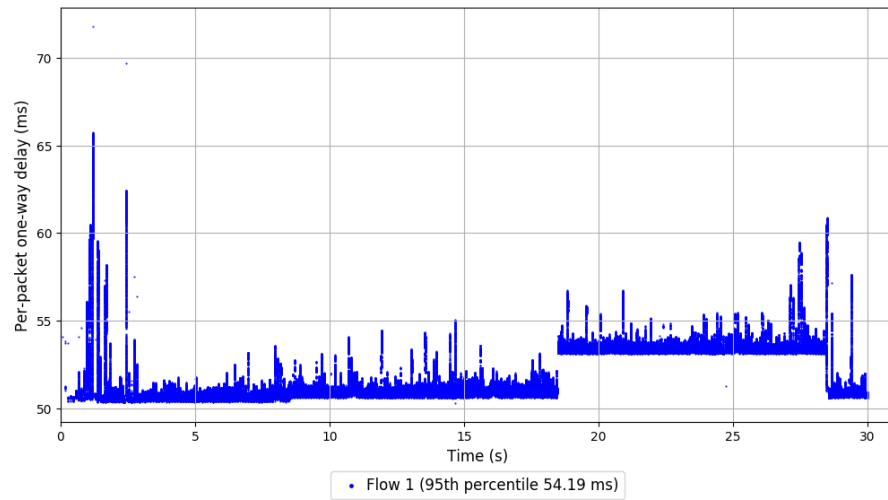
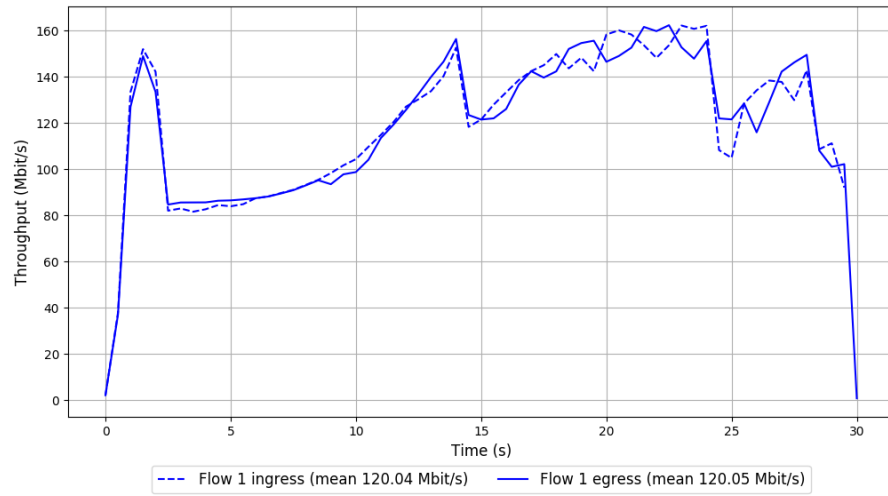
-- Flow 1:

Average throughput: 120.05 Mbit/s

95th percentile per-packet one-way delay: 54.190 ms

Loss rate: 0.00%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2017-11-16 03:31:59

End at: 2017-11-16 03:32:29

Below is generated by plot.py at 2017-11-16 05:24:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 113.34 Mbit/s

95th percentile per-packet one-way delay: 59.746 ms

Loss rate: 0.00%

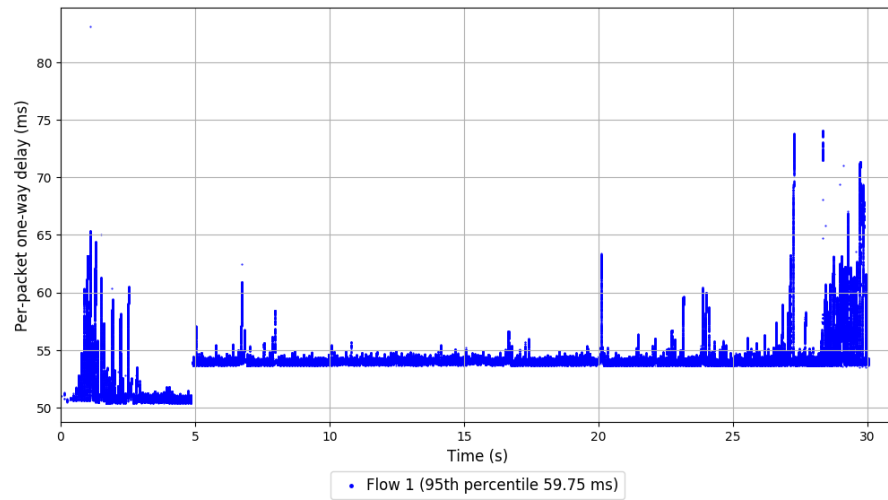
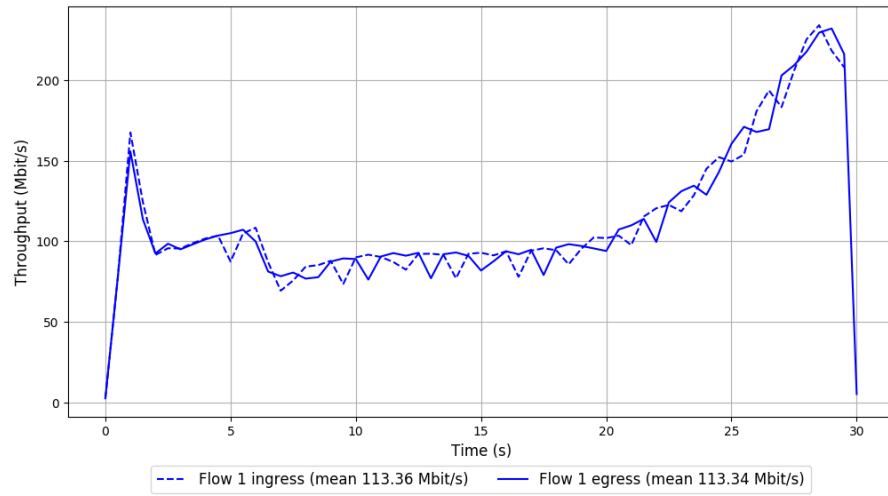
-- Flow 1:

Average throughput: 113.34 Mbit/s

95th percentile per-packet one-way delay: 59.746 ms

Loss rate: 0.00%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2017-11-16 03:42:15

End at: 2017-11-16 03:42:45

Below is generated by plot.py at 2017-11-16 05:24:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 128.14 Mbit/s

95th percentile per-packet one-way delay: 54.821 ms

Loss rate: 0.00%

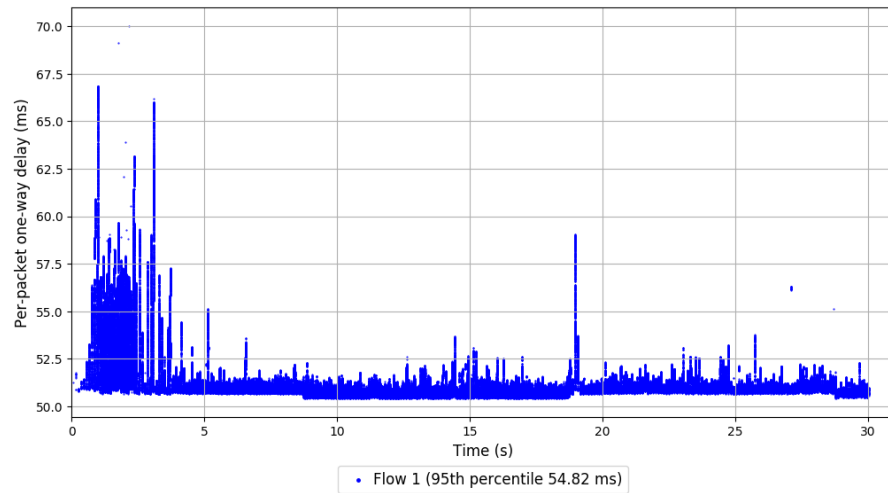
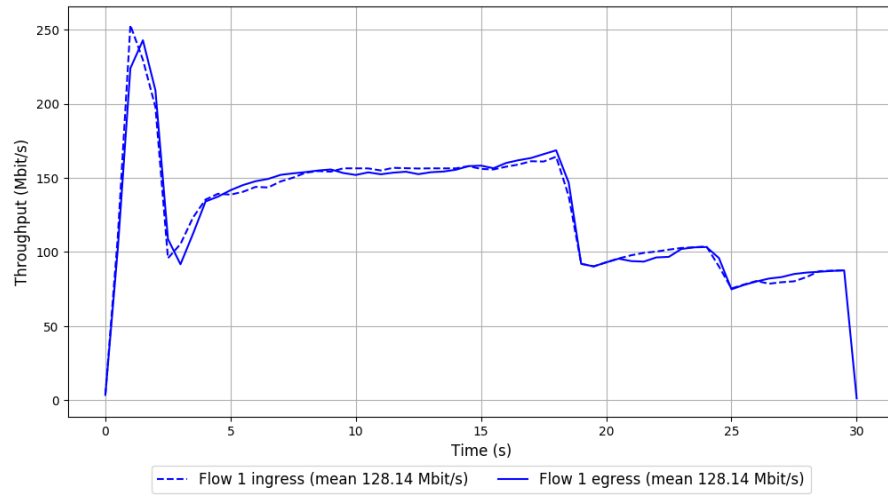
-- Flow 1:

Average throughput: 128.14 Mbit/s

95th percentile per-packet one-way delay: 54.821 ms

Loss rate: 0.00%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2017-11-16 03:52:26

End at: 2017-11-16 03:52:56

Below is generated by plot.py at 2017-11-16 05:24:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 129.28 Mbit/s

95th percentile per-packet one-way delay: 54.962 ms

Loss rate: 0.00%

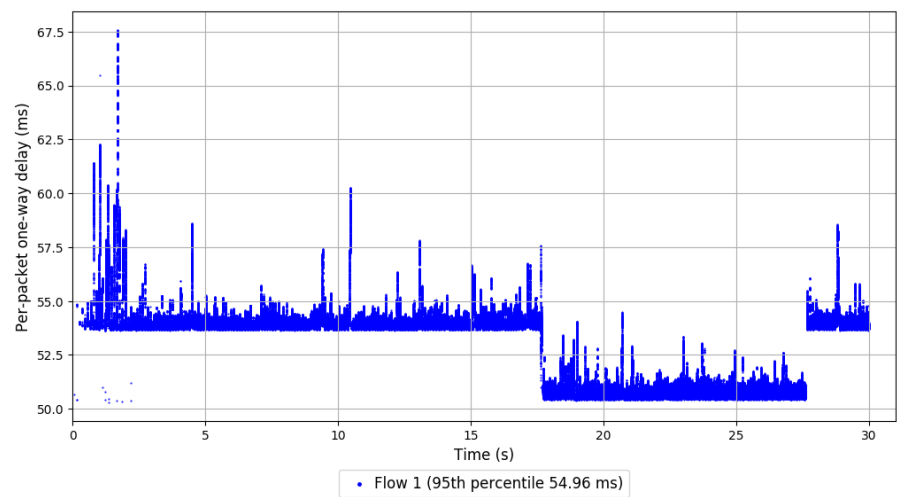
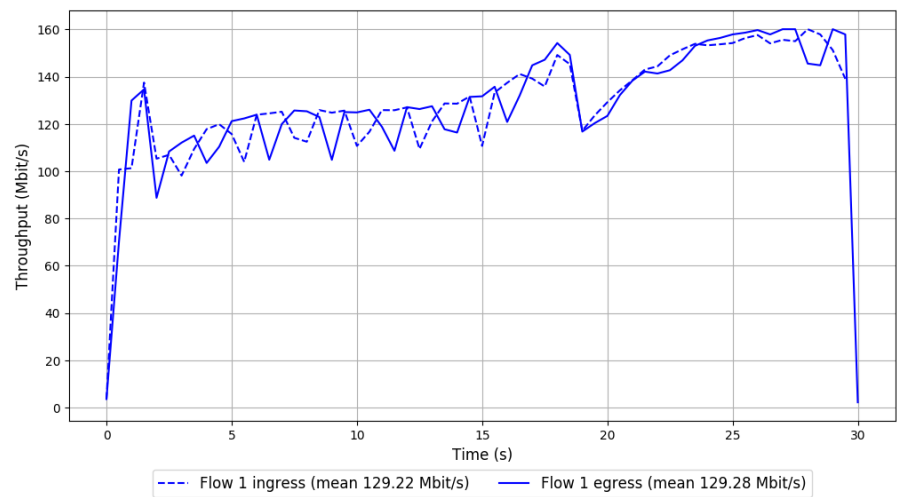
-- Flow 1:

Average throughput: 129.28 Mbit/s

95th percentile per-packet one-way delay: 54.962 ms

Loss rate: 0.00%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2017-11-16 04:02:31

End at: 2017-11-16 04:03:01

Below is generated by plot.py at 2017-11-16 05:24:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 17.64 Mbit/s

95th percentile per-packet one-way delay: 53.810 ms

Loss rate: 0.04%

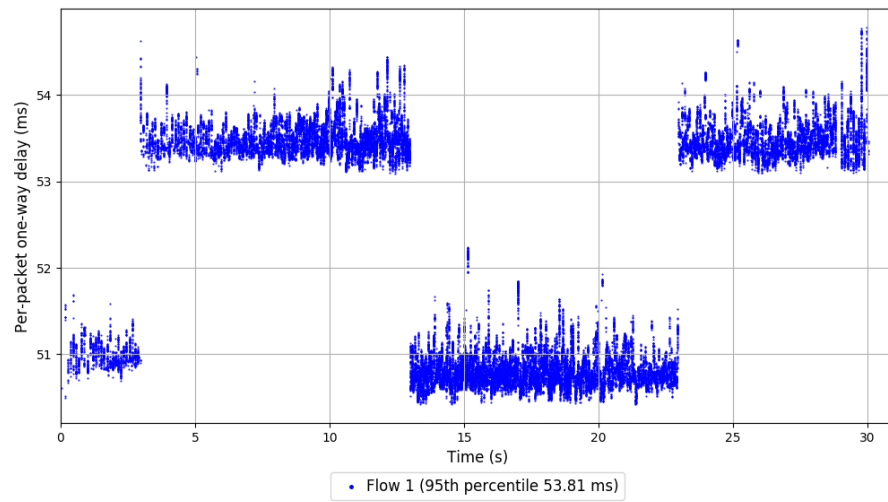
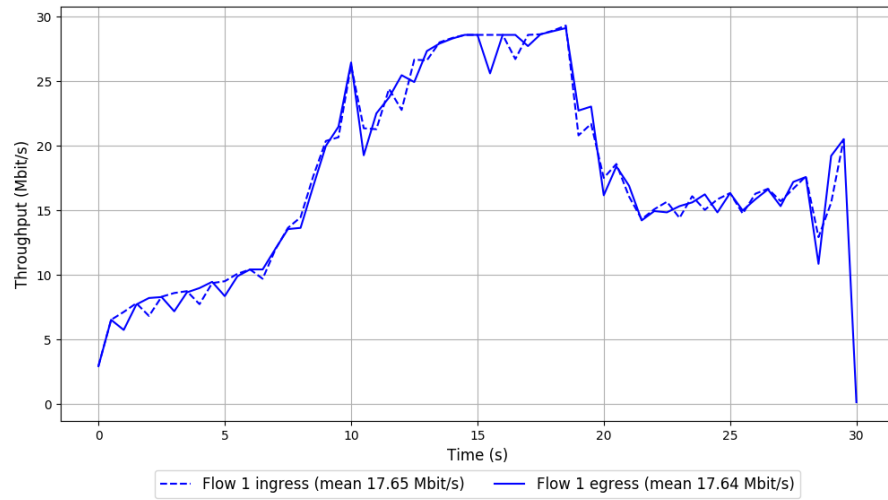
-- Flow 1:

Average throughput: 17.64 Mbit/s

95th percentile per-packet one-way delay: 53.810 ms

Loss rate: 0.04%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2017-11-16 04:12:13

End at: 2017-11-16 04:12:43

Below is generated by plot.py at 2017-11-16 05:25:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 99.02 Mbit/s

95th percentile per-packet one-way delay: 55.264 ms

Loss rate: 0.04%

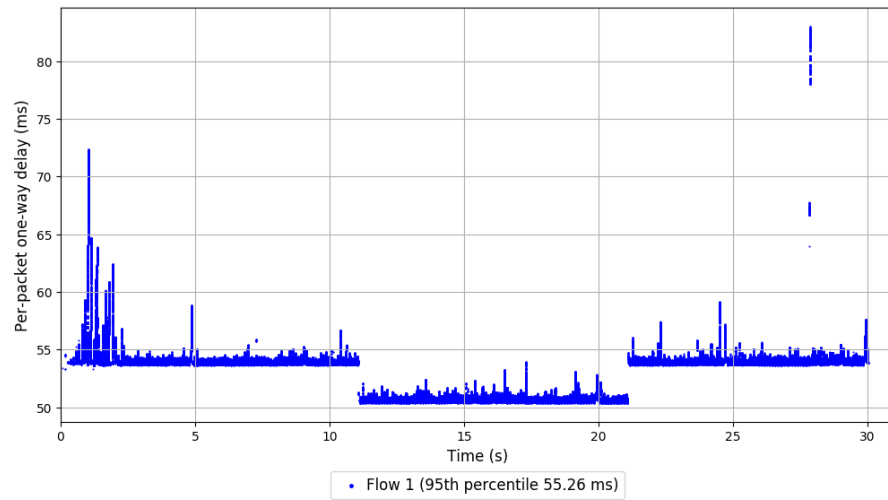
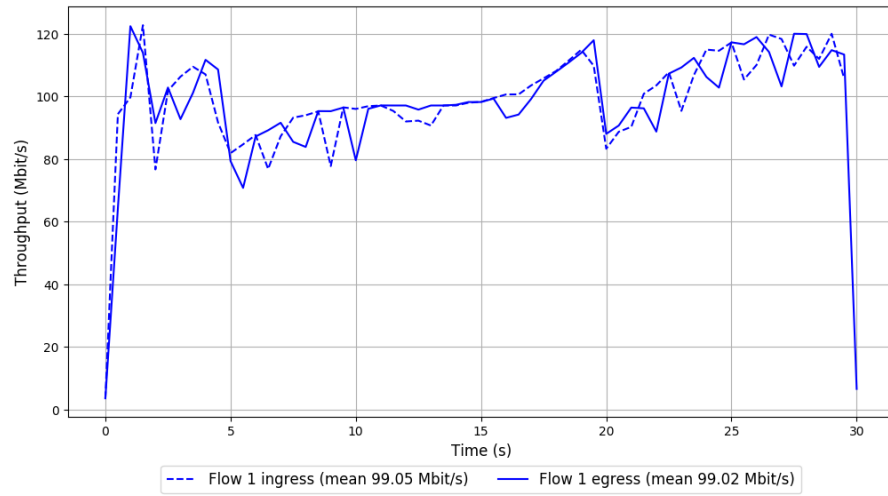
-- Flow 1:

Average throughput: 99.02 Mbit/s

95th percentile per-packet one-way delay: 55.264 ms

Loss rate: 0.04%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2017-11-16 04:22:36

End at: 2017-11-16 04:23:06

Below is generated by plot.py at 2017-11-16 05:25:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 125.05 Mbit/s

95th percentile per-packet one-way delay: 57.045 ms

Loss rate: 0.34%

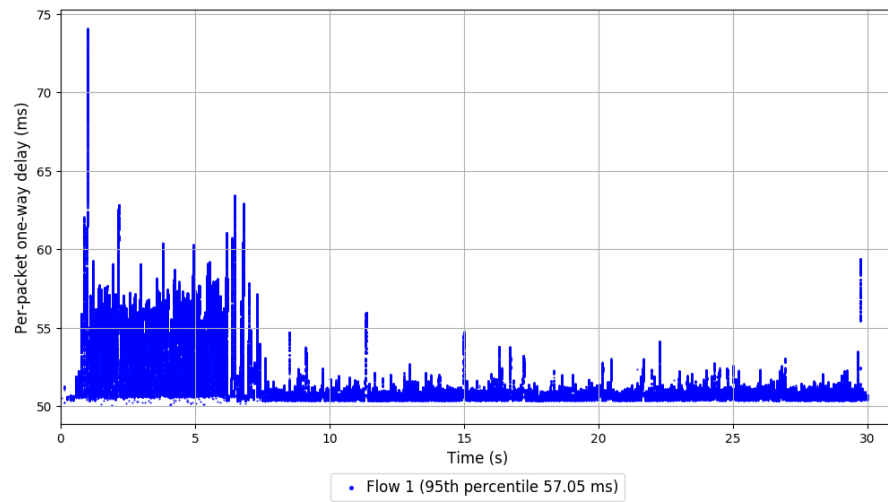
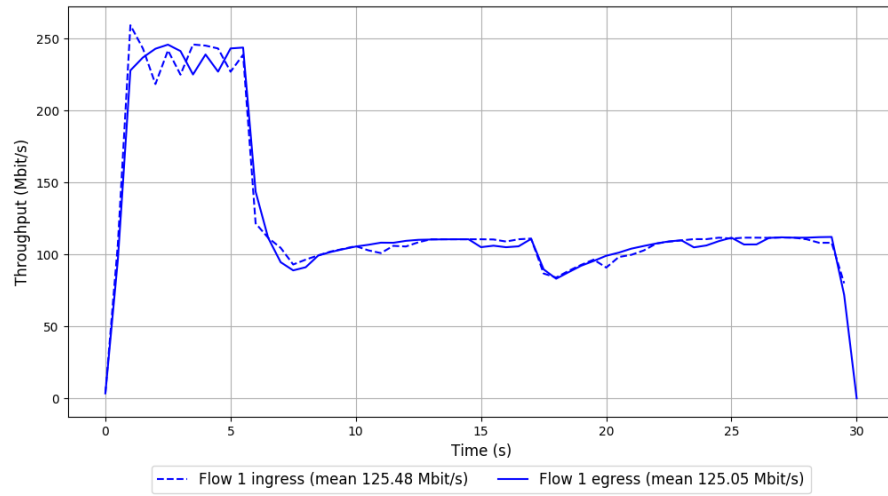
-- Flow 1:

Average throughput: 125.05 Mbit/s

95th percentile per-packet one-way delay: 57.045 ms

Loss rate: 0.34%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2017-11-16 04:32:28

End at: 2017-11-16 04:32:58

Below is generated by plot.py at 2017-11-16 05:26:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 128.61 Mbit/s

95th percentile per-packet one-way delay: 54.580 ms

Loss rate: 0.00%

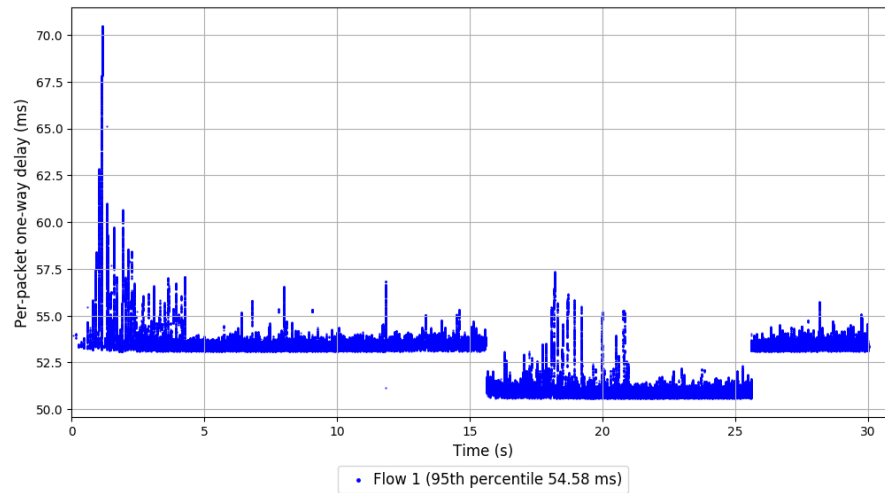
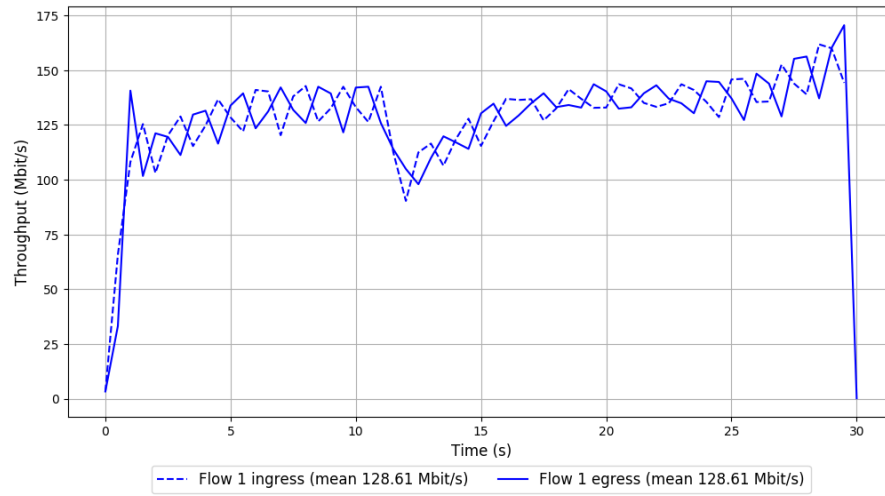
-- Flow 1:

Average throughput: 128.61 Mbit/s

95th percentile per-packet one-way delay: 54.580 ms

Loss rate: 0.00%

Run 10: Report of TCP Cubic — Data Link

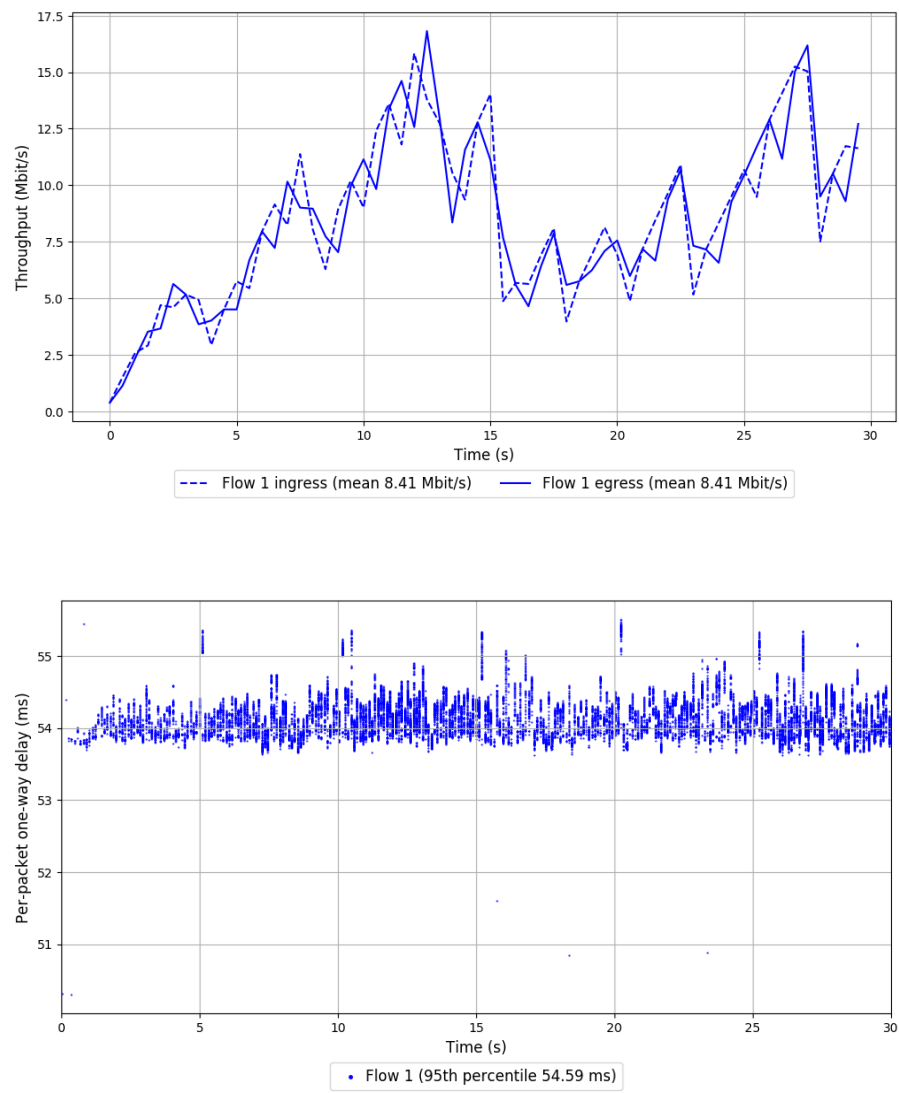


```
Run 1: Statistics of LEDBAT

Start at: 2017-11-16 02:57:10
End at: 2017-11-16 02:57:40

# Below is generated by plot.py at 2017-11-16 05:26:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 8.41 Mbit/s
95th percentile per-packet one-way delay: 54.595 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 8.41 Mbit/s
95th percentile per-packet one-way delay: 54.595 ms
Loss rate: 0.35%
```

Run 1: Report of LEDBAT — Data Link

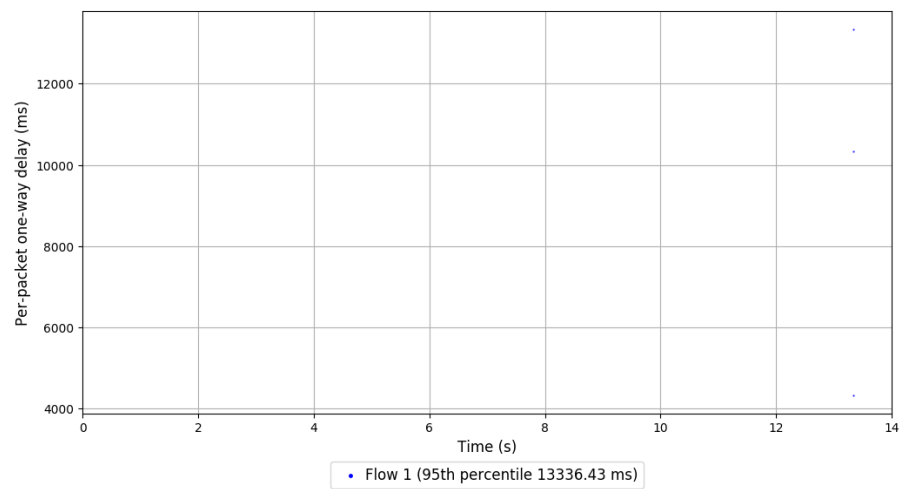
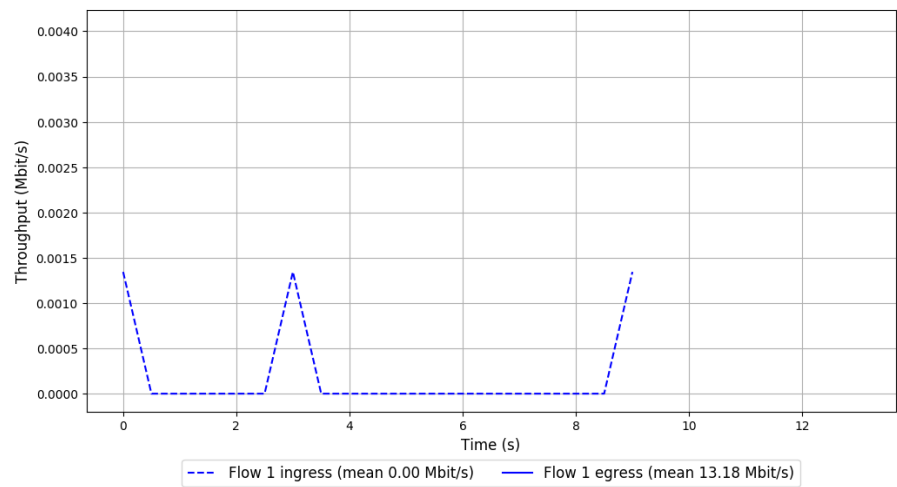


Run 2: Statistics of LEDBAT

Start at: 2017-11-16 03:07:52

End at: 2017-11-16 03:08:22

Run 2: Report of LEDBAT — Data Link

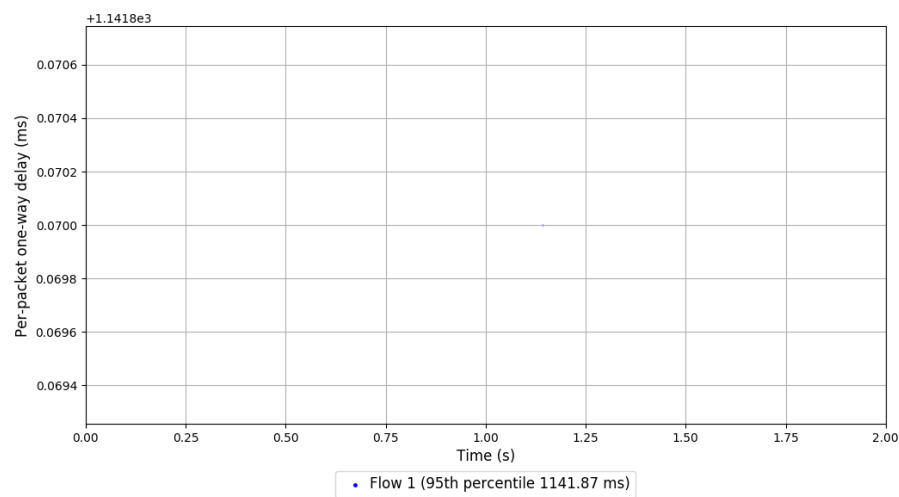
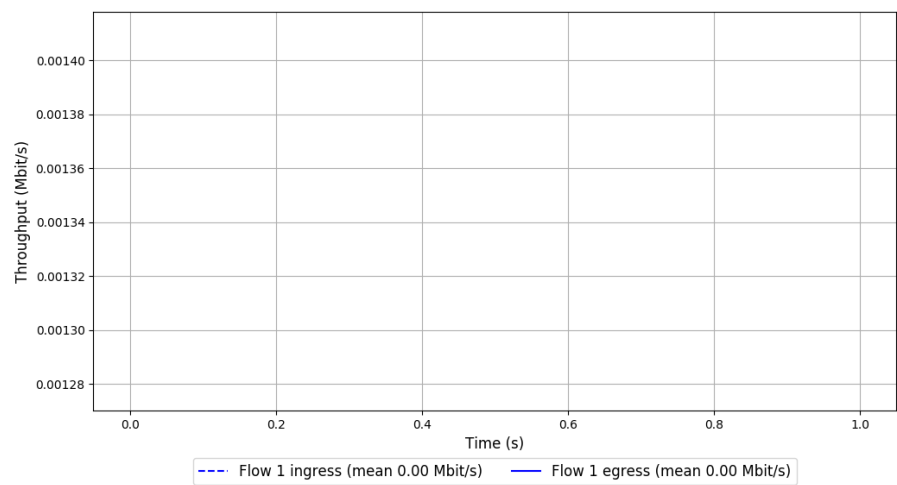


Run 3: Statistics of LEDBAT

Start at: 2017-11-16 03:18:19

End at: 2017-11-16 03:18:49

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2017-11-16 03:28:27

End at: 2017-11-16 03:28:57

Below is generated by plot.py at 2017-11-16 05:26:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.97 Mbit/s

95th percentile per-packet one-way delay: 54.266 ms

Loss rate: 0.01%

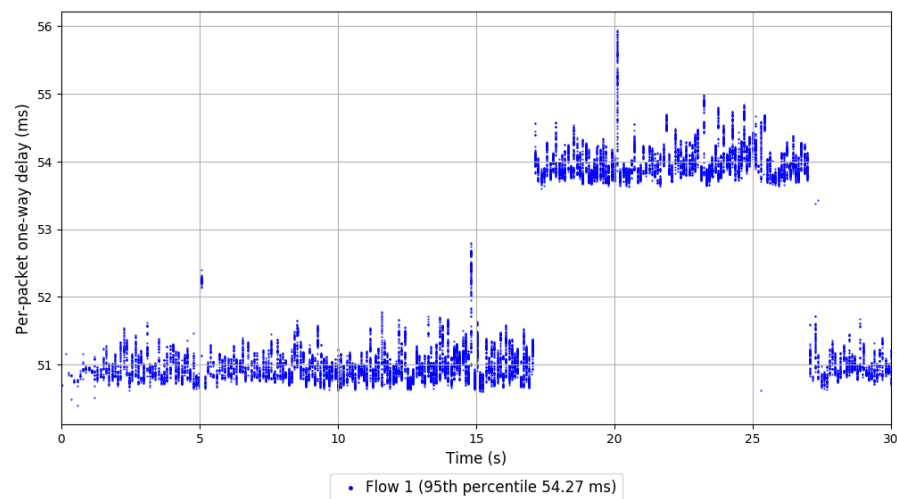
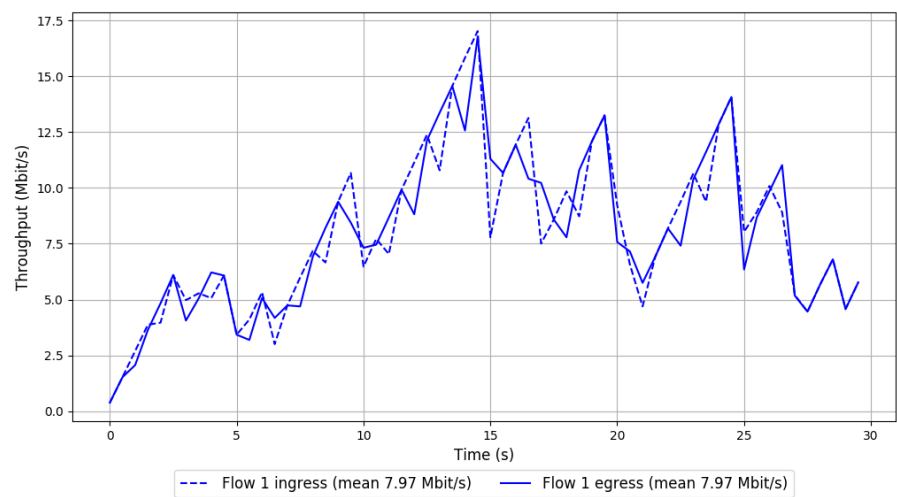
-- Flow 1:

Average throughput: 7.97 Mbit/s

95th percentile per-packet one-way delay: 54.266 ms

Loss rate: 0.01%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2017-11-16 03:38:52

End at: 2017-11-16 03:39:22

Below is generated by plot.py at 2017-11-16 05:26:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 9.69 Mbit/s

95th percentile per-packet one-way delay: 54.332 ms

Loss rate: 0.00%

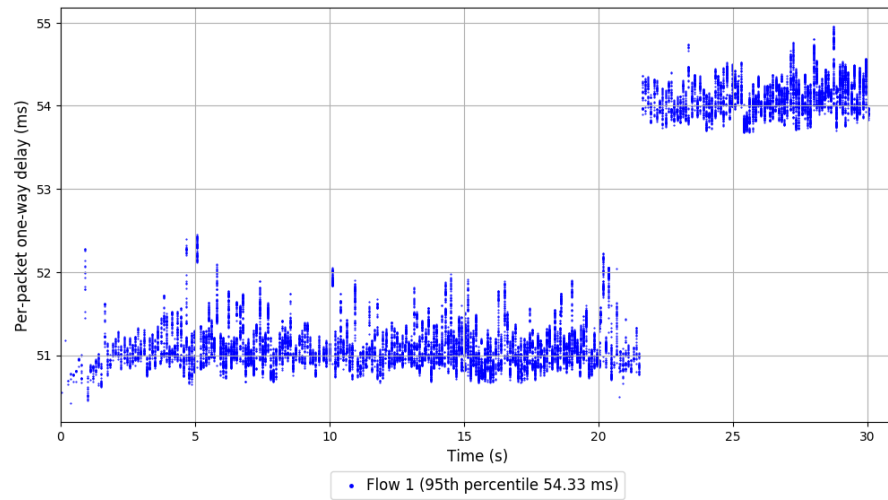
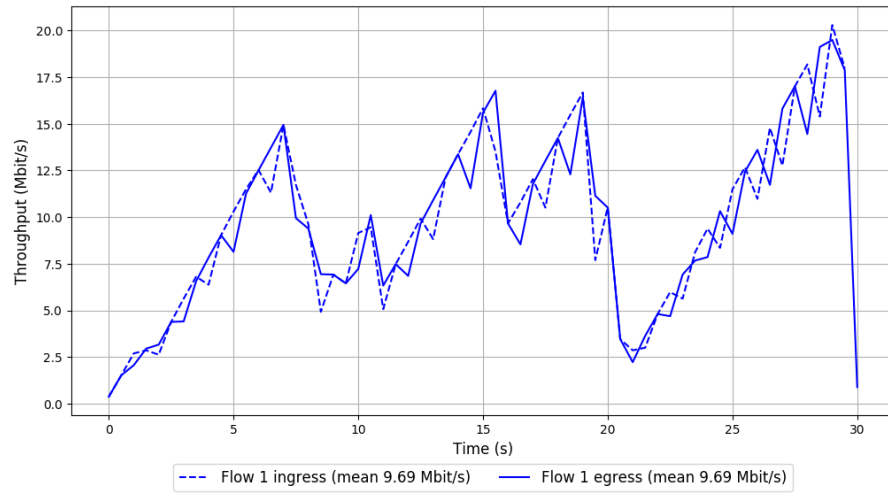
-- Flow 1:

Average throughput: 9.69 Mbit/s

95th percentile per-packet one-way delay: 54.332 ms

Loss rate: 0.00%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2017-11-16 03:49:09

End at: 2017-11-16 03:49:39

Below is generated by plot.py at 2017-11-16 05:26:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 8.34 Mbit/s

95th percentile per-packet one-way delay: 51.475 ms

Loss rate: 0.03%

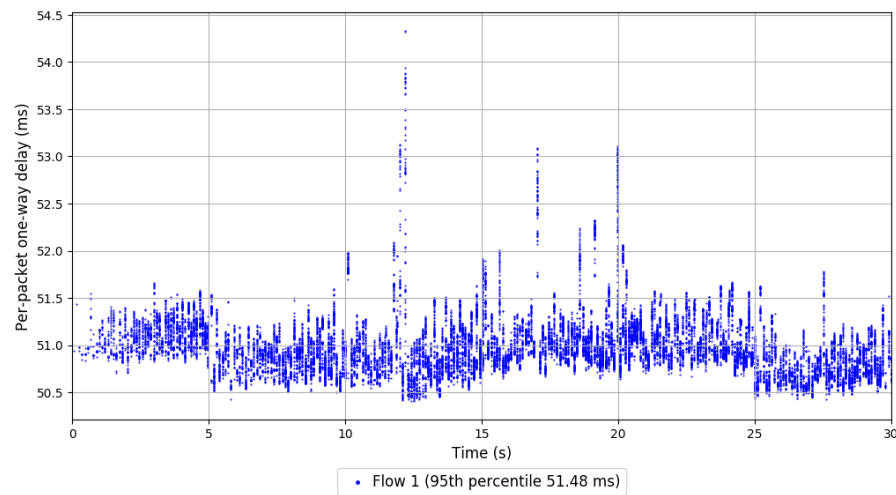
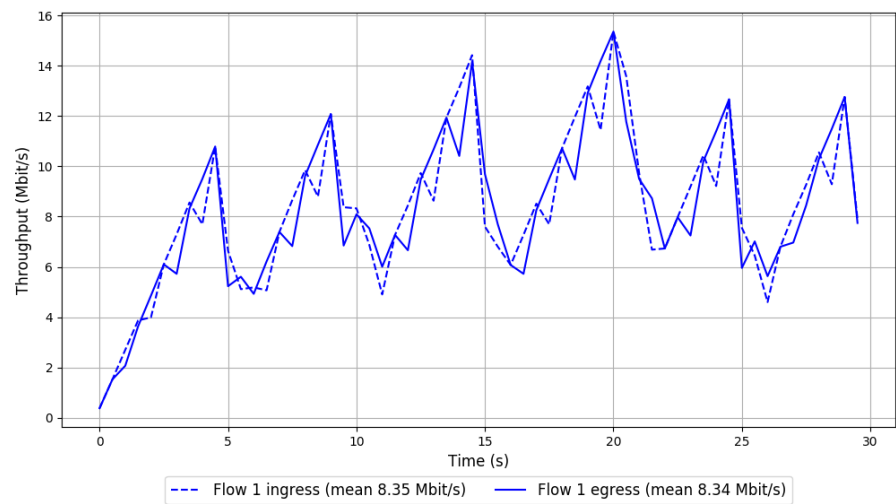
-- Flow 1:

Average throughput: 8.34 Mbit/s

95th percentile per-packet one-way delay: 51.475 ms

Loss rate: 0.03%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2017-11-16 03:59:02

End at: 2017-11-16 03:59:32

Below is generated by plot.py at 2017-11-16 05:26:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 8.12 Mbit/s

95th percentile per-packet one-way delay: 53.839 ms

Loss rate: 0.10%

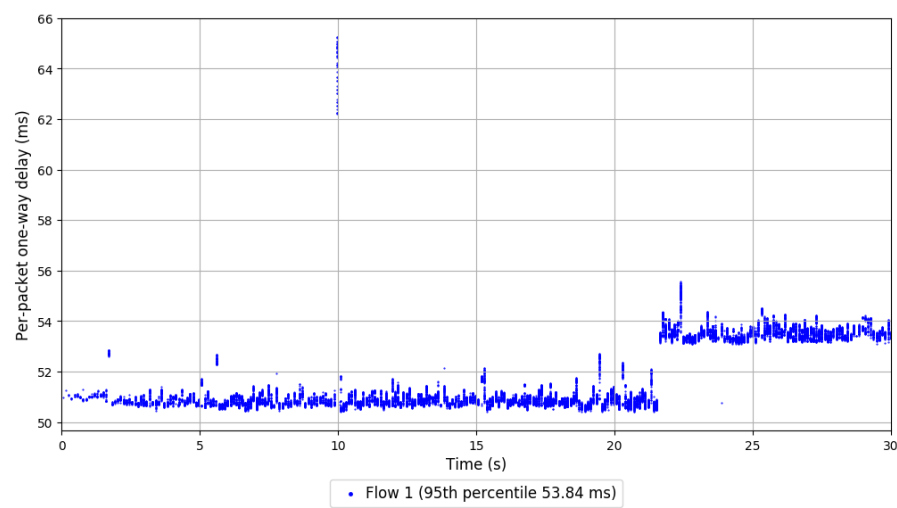
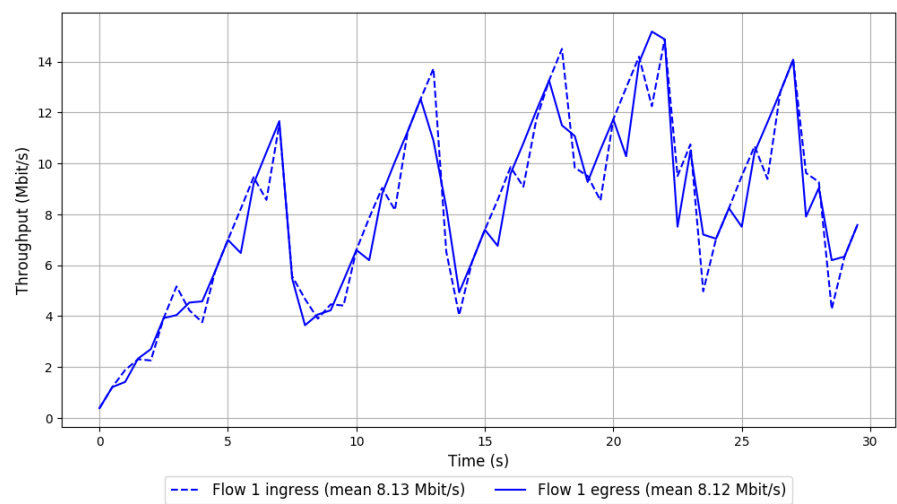
-- Flow 1:

Average throughput: 8.12 Mbit/s

95th percentile per-packet one-way delay: 53.839 ms

Loss rate: 0.10%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2017-11-16 04:08:54

End at: 2017-11-16 04:09:24

Below is generated by plot.py at 2017-11-16 05:26:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.84 Mbit/s

95th percentile per-packet one-way delay: 54.421 ms

Loss rate: 0.24%

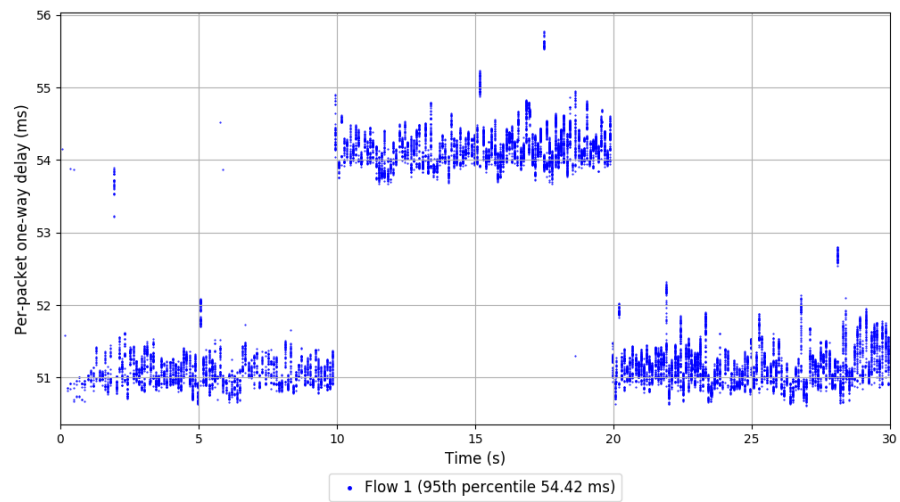
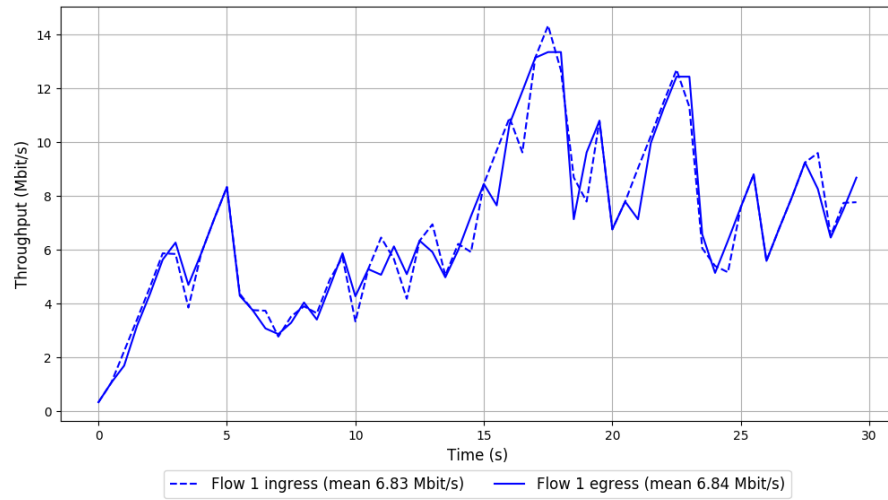
-- Flow 1:

Average throughput: 6.84 Mbit/s

95th percentile per-packet one-way delay: 54.421 ms

Loss rate: 0.24%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2017-11-16 04:19:09

End at: 2017-11-16 04:19:39

Below is generated by plot.py at 2017-11-16 05:26:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.74 Mbit/s

95th percentile per-packet one-way delay: 54.639 ms

Loss rate: 0.05%

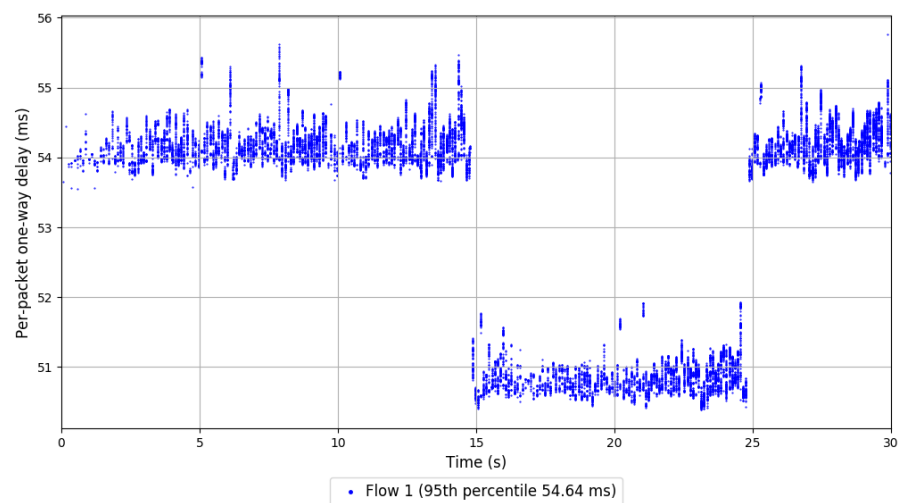
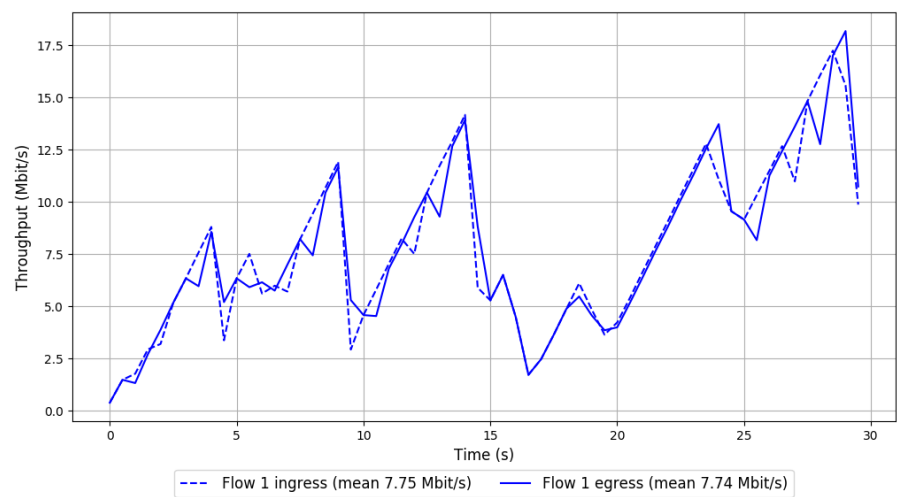
-- Flow 1:

Average throughput: 7.74 Mbit/s

95th percentile per-packet one-way delay: 54.639 ms

Loss rate: 0.05%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2017-11-16 04:29:10

End at: 2017-11-16 04:29:40

Below is generated by plot.py at 2017-11-16 05:26:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.88 Mbit/s

95th percentile per-packet one-way delay: 53.760 ms

Loss rate: 0.08%

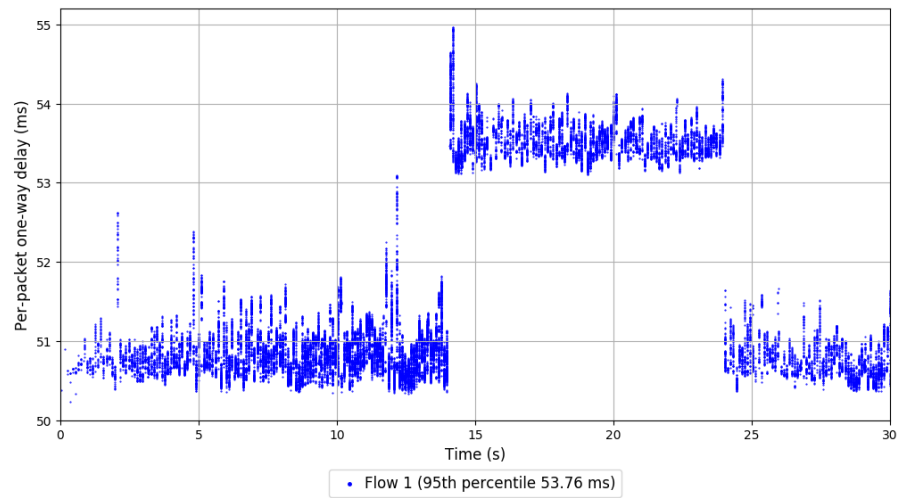
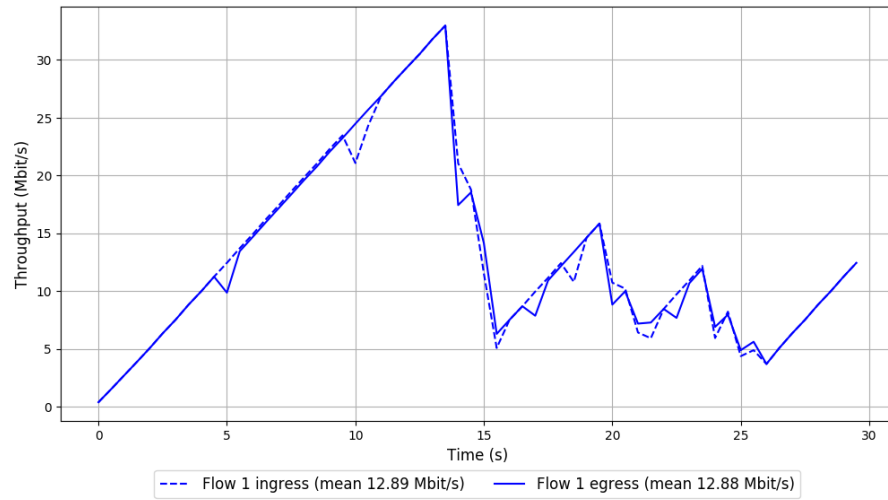
-- Flow 1:

Average throughput: 12.88 Mbit/s

95th percentile per-packet one-way delay: 53.760 ms

Loss rate: 0.08%

Run 10: Report of LEDBAT — Data Link

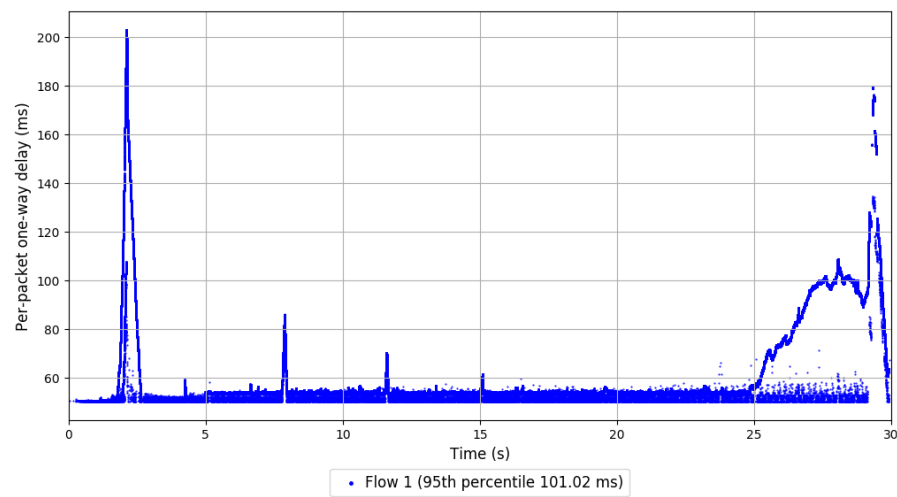
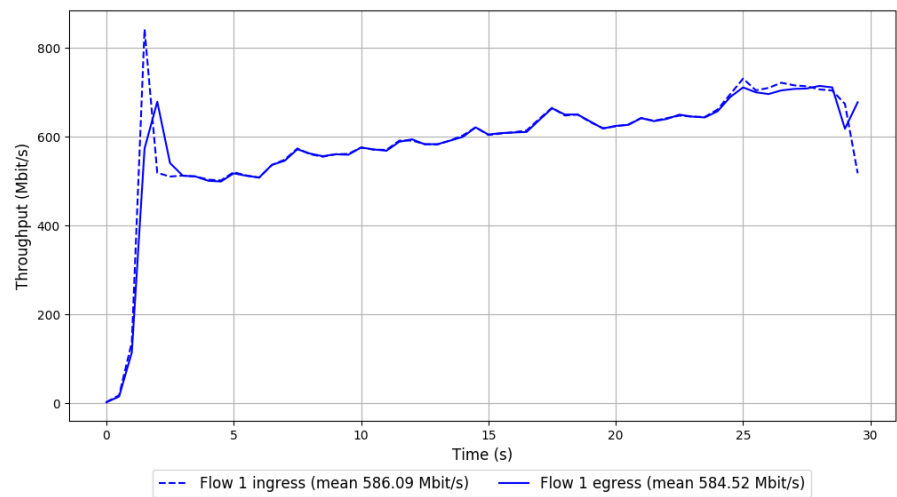


```
Run 1: Statistics of PCC

Start at: 2017-11-16 02:55:09
End at: 2017-11-16 02:55:39

# Below is generated by plot.py at 2017-11-16 05:35:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 584.52 Mbit/s
95th percentile per-packet one-way delay: 101.016 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 584.52 Mbit/s
95th percentile per-packet one-way delay: 101.016 ms
Loss rate: 0.24%
```

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2017-11-16 03:05:55

End at: 2017-11-16 03:06:25

Below is generated by plot.py at 2017-11-16 05:35:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 551.90 Mbit/s

95th percentile per-packet one-way delay: 59.388 ms

Loss rate: 0.24%

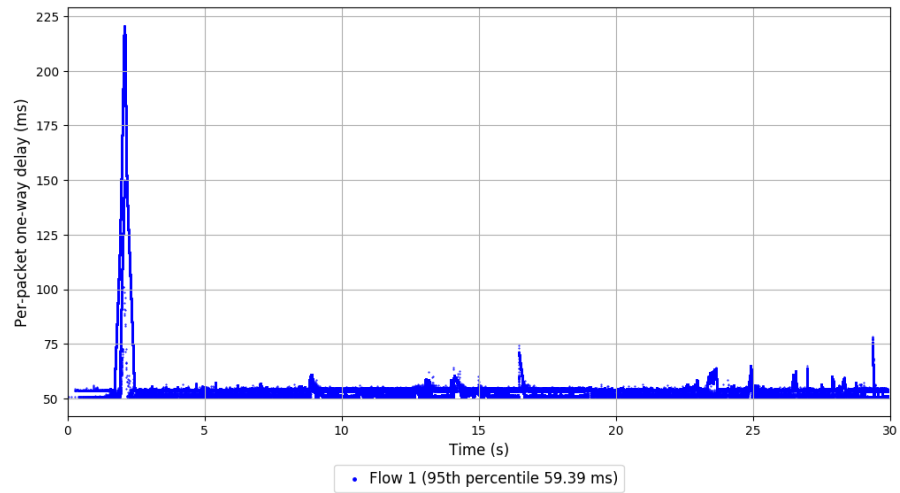
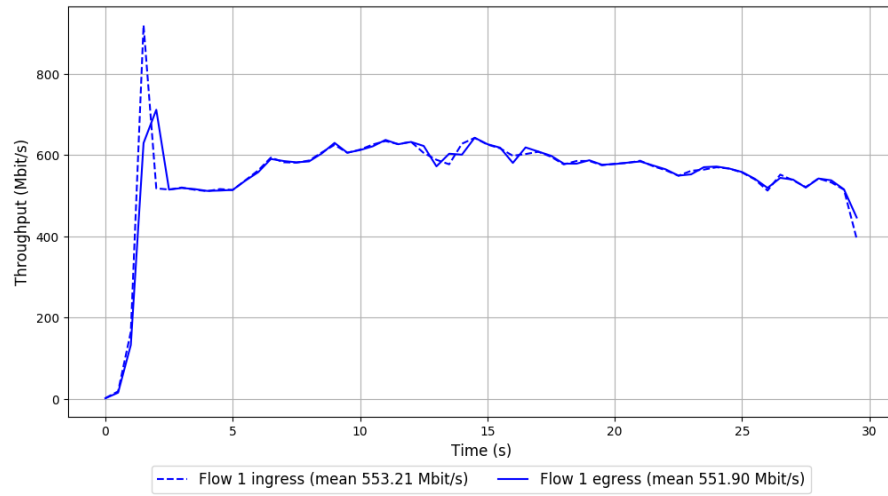
-- Flow 1:

Average throughput: 551.90 Mbit/s

95th percentile per-packet one-way delay: 59.388 ms

Loss rate: 0.24%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2017-11-16 03:16:28

End at: 2017-11-16 03:16:58

Below is generated by plot.py at 2017-11-16 05:35:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 589.31 Mbit/s

95th percentile per-packet one-way delay: 105.569 ms

Loss rate: 0.26%

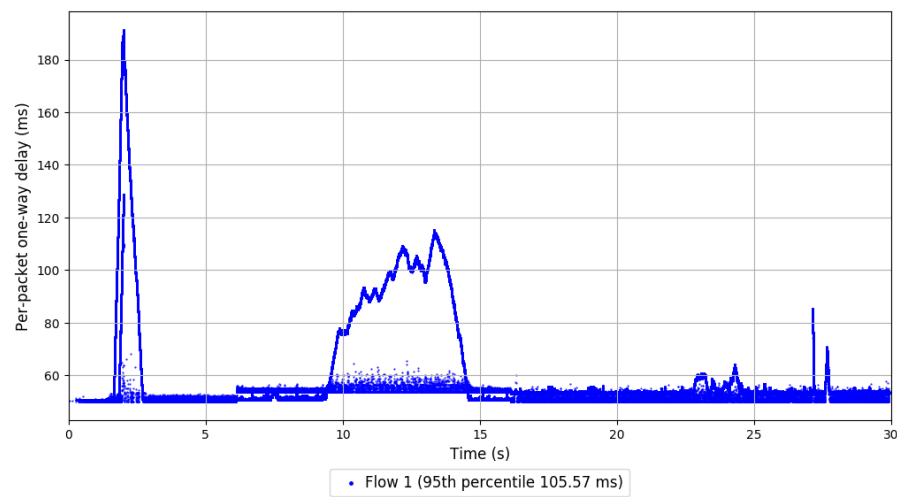
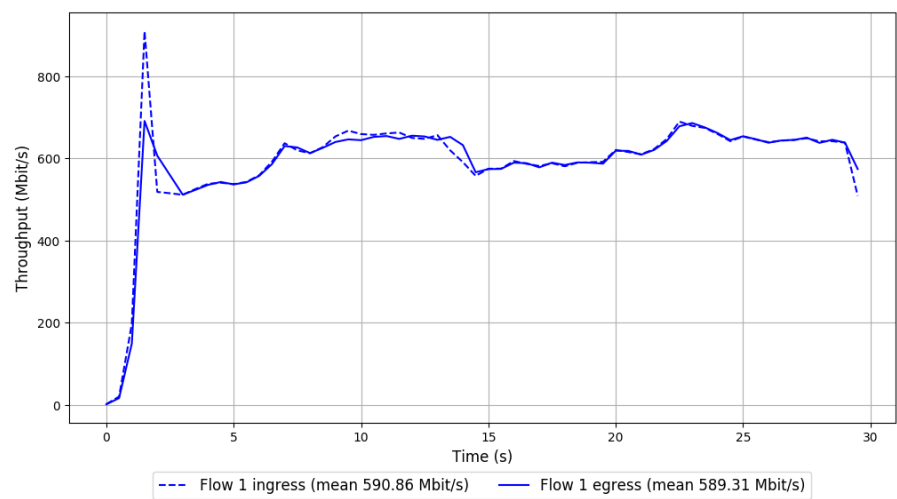
-- Flow 1:

Average throughput: 589.31 Mbit/s

95th percentile per-packet one-way delay: 105.569 ms

Loss rate: 0.26%

Run 3: Report of PCC — Data Link

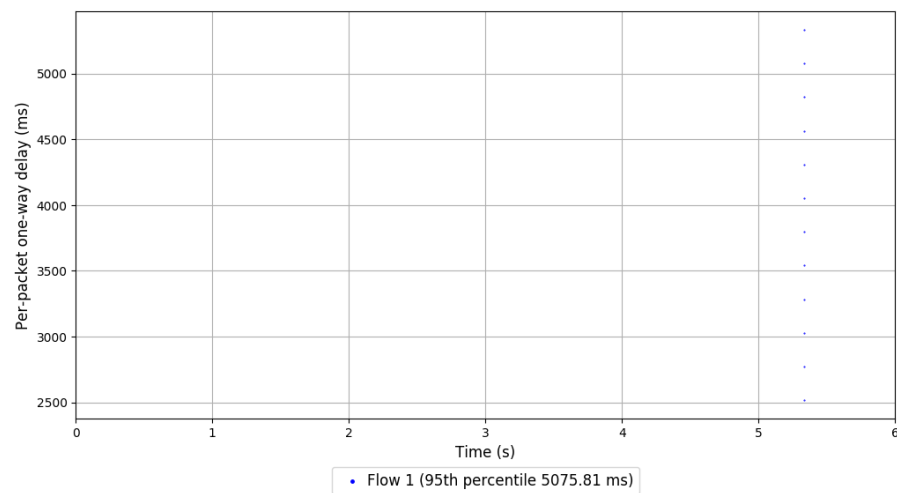
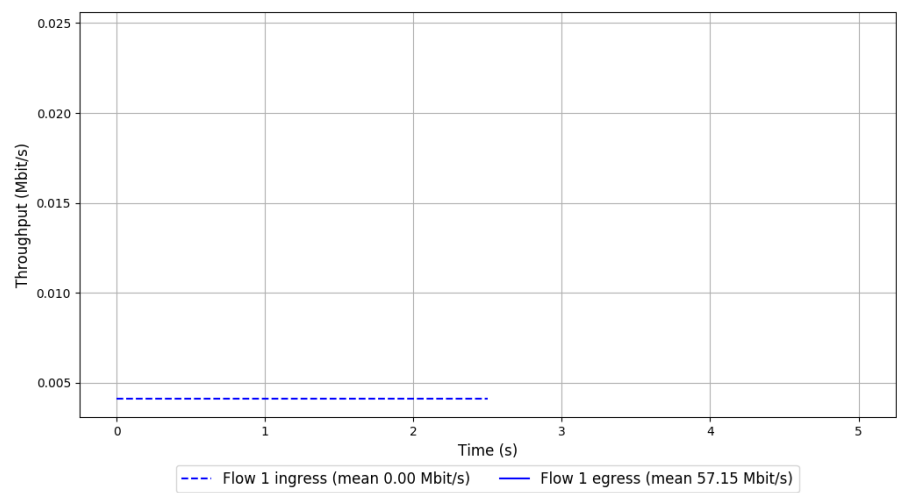


Run 4: Statistics of PCC

Start at: 2017-11-16 03:26:57

End at: 2017-11-16 03:27:27

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2017-11-16 03:37:00

End at: 2017-11-16 03:37:30

Below is generated by plot.py at 2017-11-16 05:35:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 609.66 Mbit/s

95th percentile per-packet one-way delay: 91.389 ms

Loss rate: 0.24%

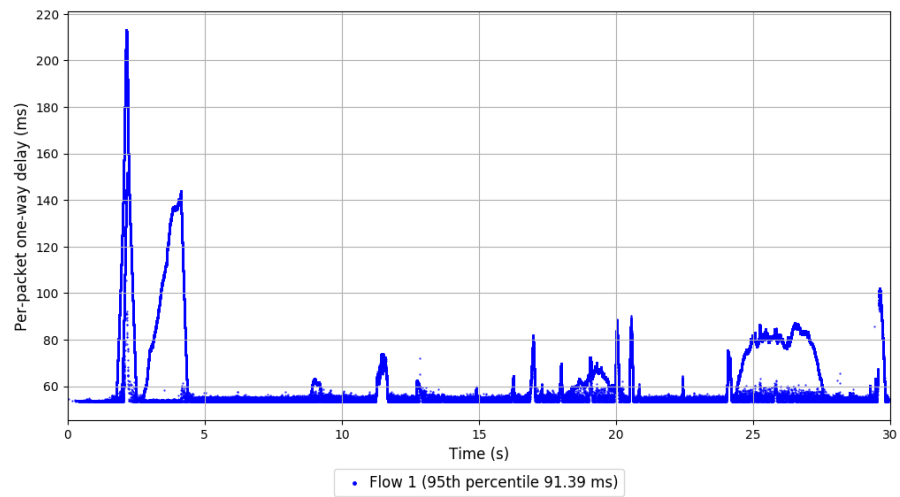
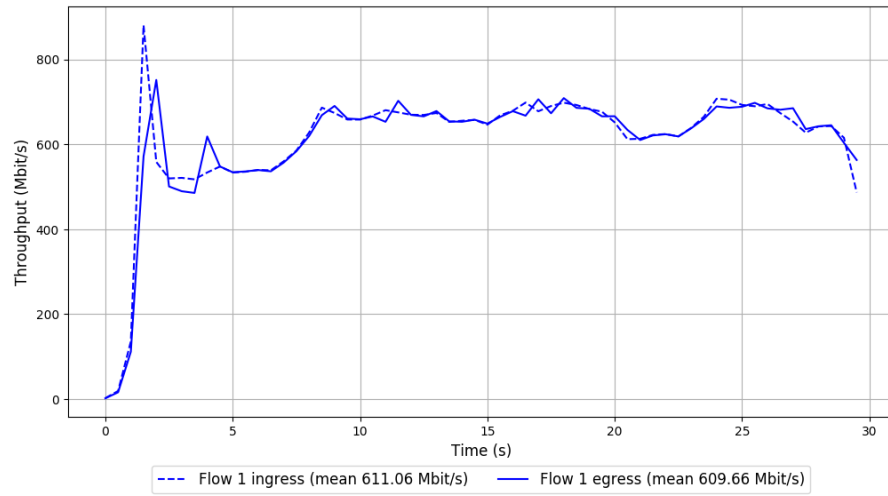
-- Flow 1:

Average throughput: 609.66 Mbit/s

95th percentile per-packet one-way delay: 91.389 ms

Loss rate: 0.24%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2017-11-16 03:47:14

End at: 2017-11-16 03:47:44

Below is generated by plot.py at 2017-11-16 05:35:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 558.93 Mbit/s

95th percentile per-packet one-way delay: 212.438 ms

Loss rate: 1.80%

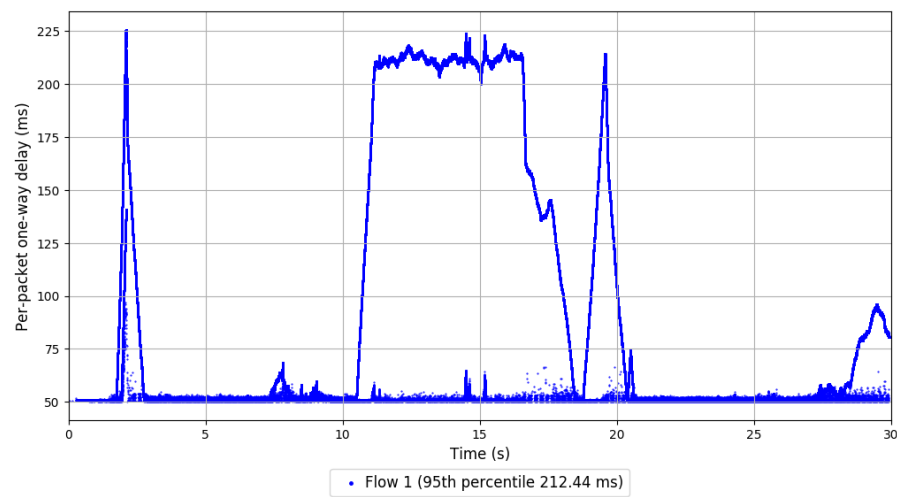
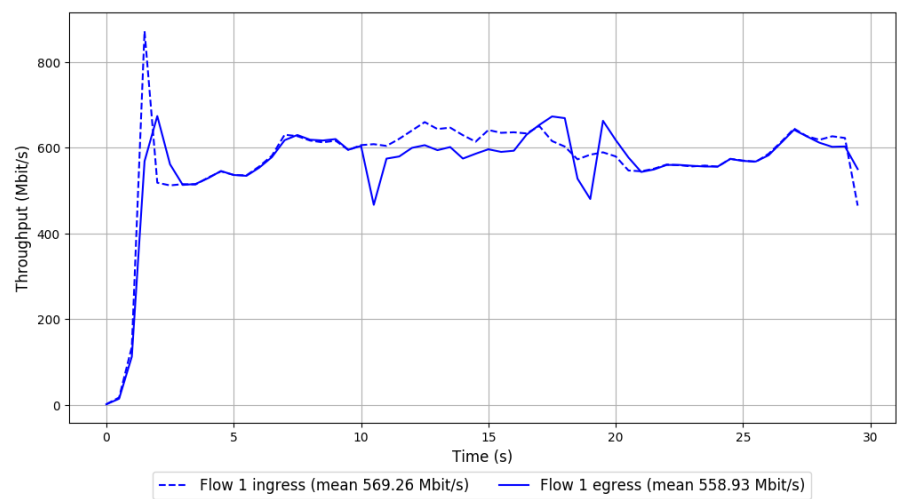
-- Flow 1:

Average throughput: 558.93 Mbit/s

95th percentile per-packet one-way delay: 212.438 ms

Loss rate: 1.80%

Run 6: Report of PCC — Data Link

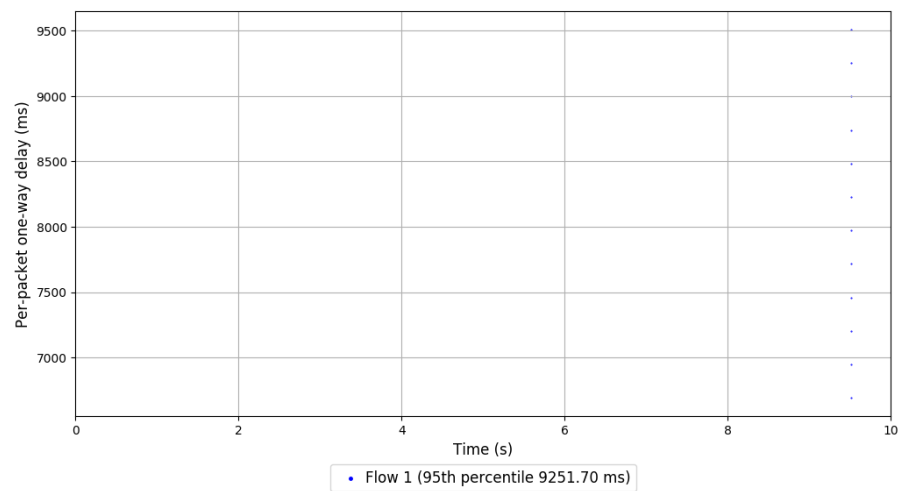
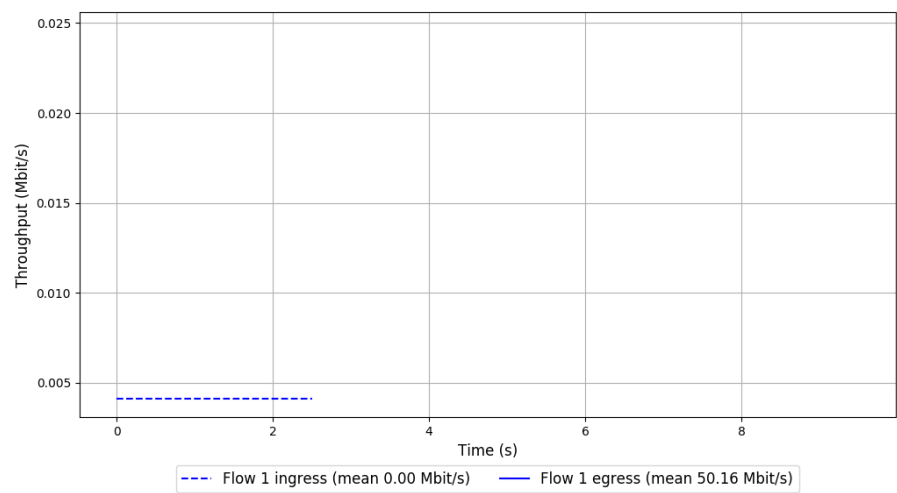


Run 7: Statistics of PCC

Start at: 2017-11-16 03:57:30

End at: 2017-11-16 03:58:00

Run 7: Report of PCC — Data Link

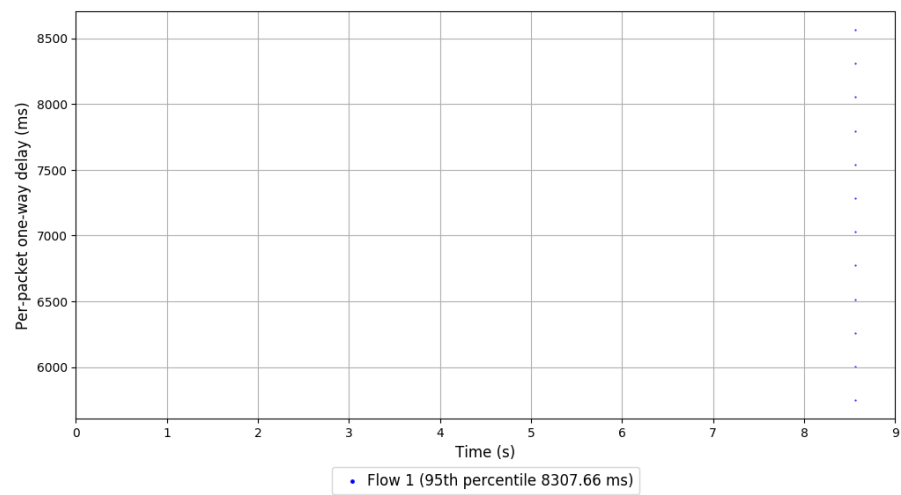
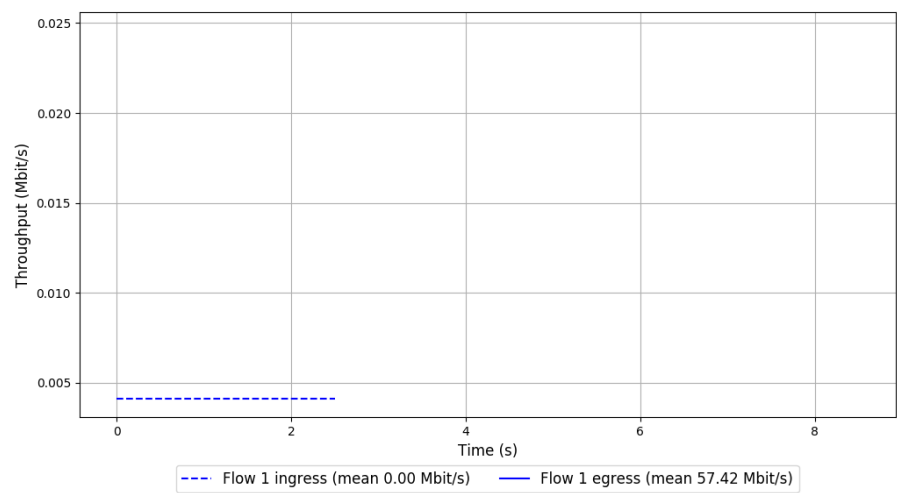


Run 8: Statistics of PCC

Start at: 2017-11-16 04:07:23

End at: 2017-11-16 04:07:53

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2017-11-16 04:17:14

End at: 2017-11-16 04:17:44

Below is generated by plot.py at 2017-11-16 05:36:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 592.95 Mbit/s

95th percentile per-packet one-way delay: 60.949 ms

Loss rate: 0.04%

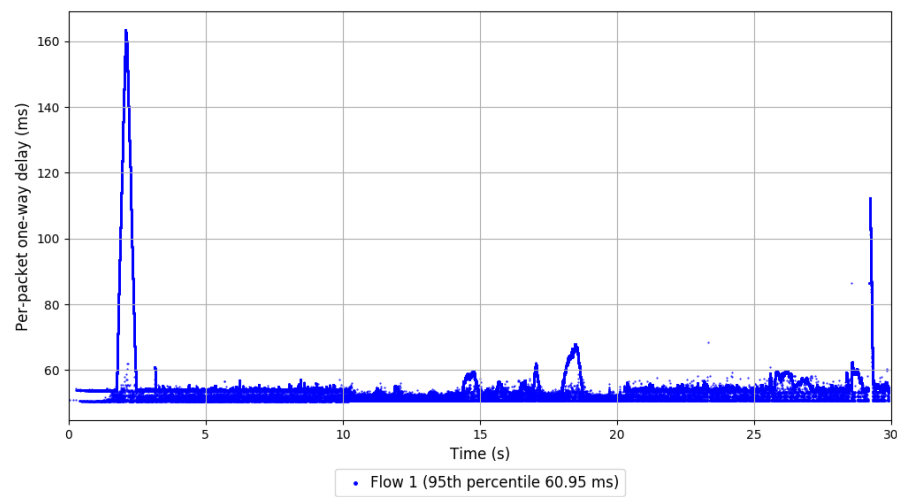
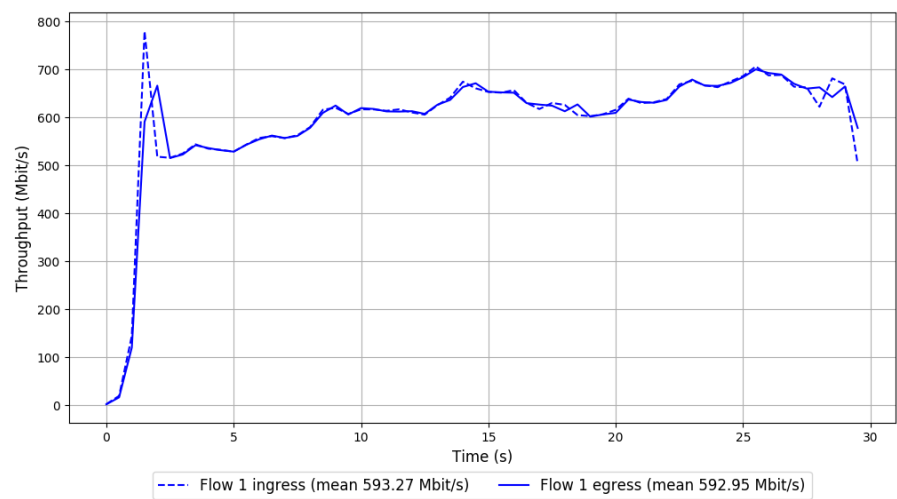
-- Flow 1:

Average throughput: 592.95 Mbit/s

95th percentile per-packet one-way delay: 60.949 ms

Loss rate: 0.04%

Run 9: Report of PCC — Data Link

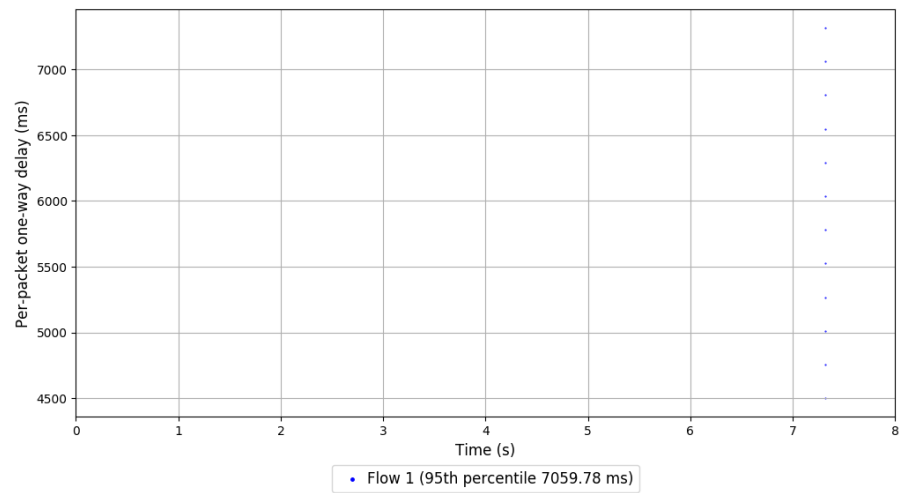
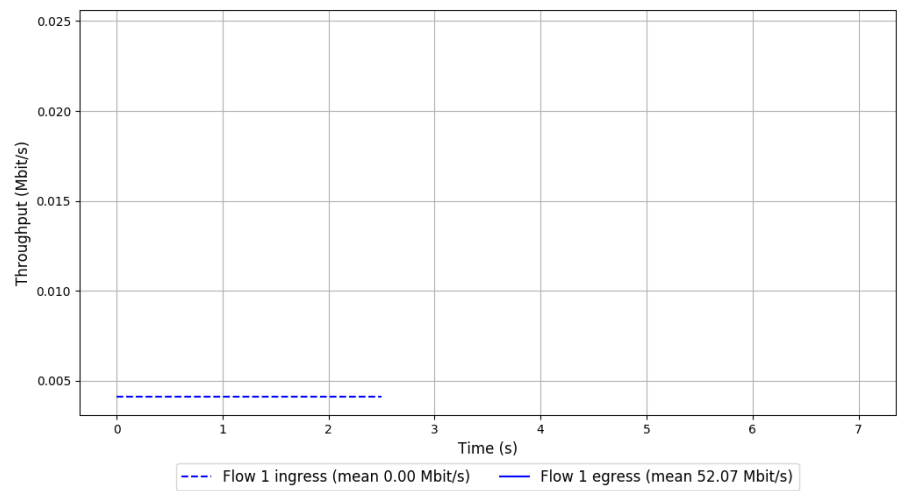


Run 10: Statistics of PCC

Start at: 2017-11-16 04:27:36

End at: 2017-11-16 04:28:06

Run 10: Report of PCC — Data Link

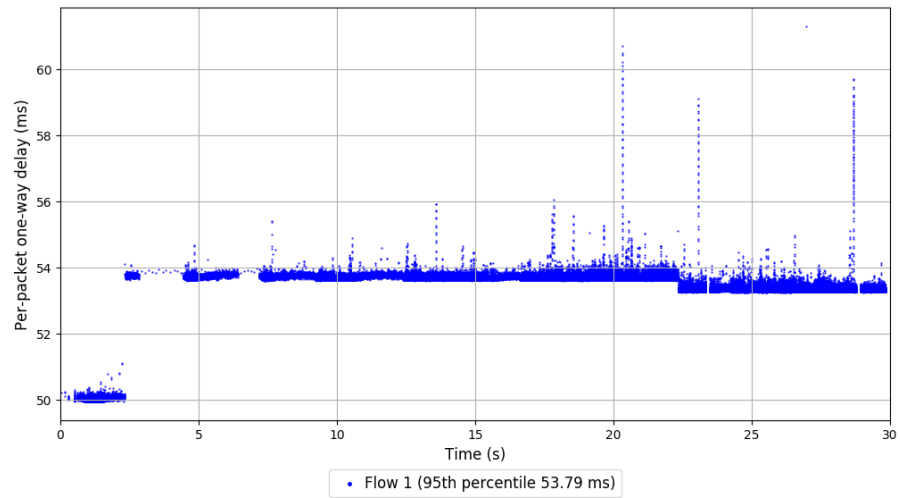
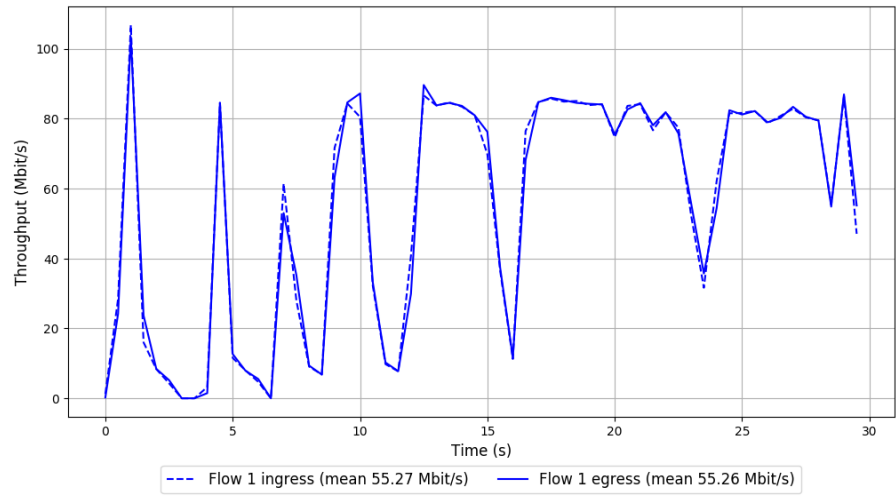


```
Run 1: Statistics of QUIC Cubic

Start at: 2017-11-16 02:59:31
End at: 2017-11-16 03:00:01

# Below is generated by plot.py at 2017-11-16 05:36:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 55.26 Mbit/s
95th percentile per-packet one-way delay: 53.794 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 55.26 Mbit/s
95th percentile per-packet one-way delay: 53.794 ms
Loss rate: 0.01%
```

Run 1: Report of QUIC Cubic — Data Link

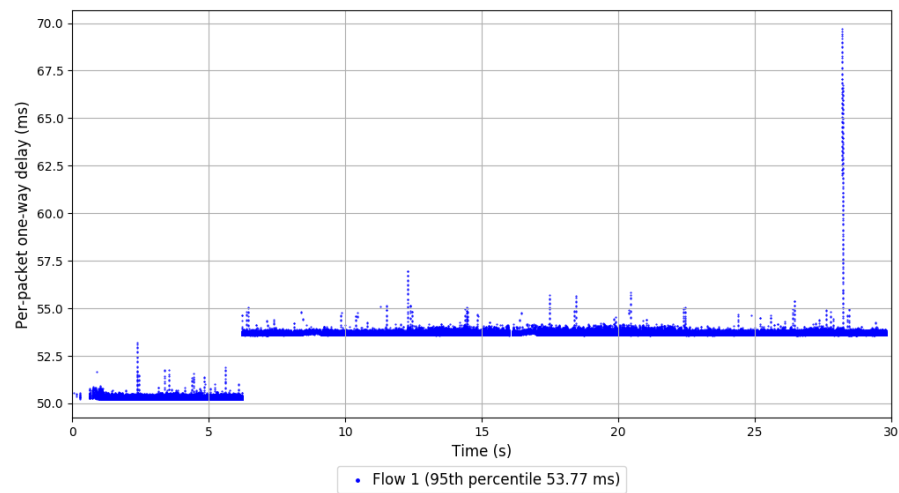
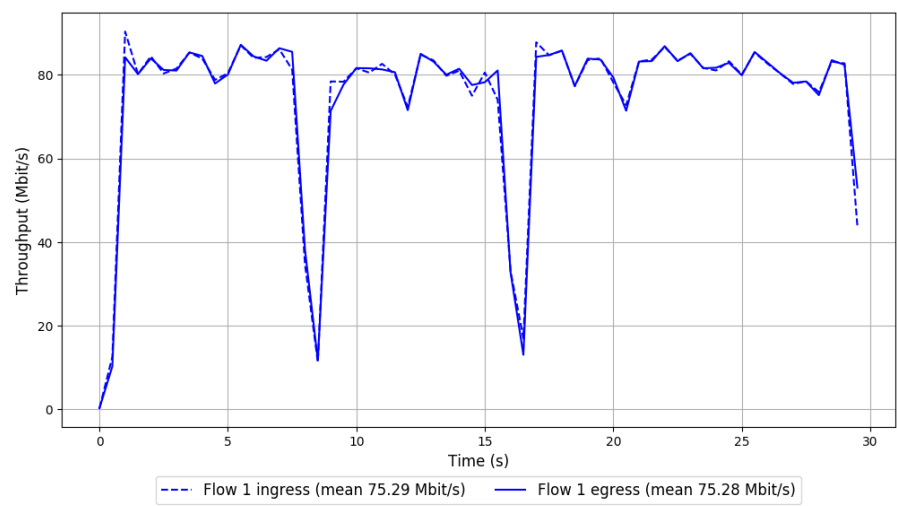


```
Run 2: Statistics of QUIC Cubic

Start at: 2017-11-16 03:10:07
End at: 2017-11-16 03:10:37

# Below is generated by plot.py at 2017-11-16 05:36:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 75.28 Mbit/s
95th percentile per-packet one-way delay: 53.765 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 75.28 Mbit/s
95th percentile per-packet one-way delay: 53.765 ms
Loss rate: 0.00%
```

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2017-11-16 03:20:37

End at: 2017-11-16 03:21:07

Below is generated by plot.py at 2017-11-16 05:36:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 76.44 Mbit/s

95th percentile per-packet one-way delay: 50.733 ms

Loss rate: 0.00%

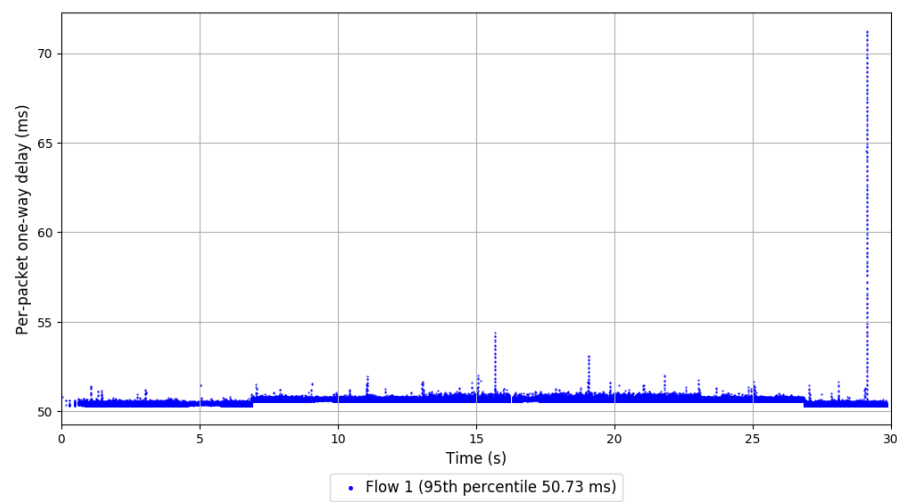
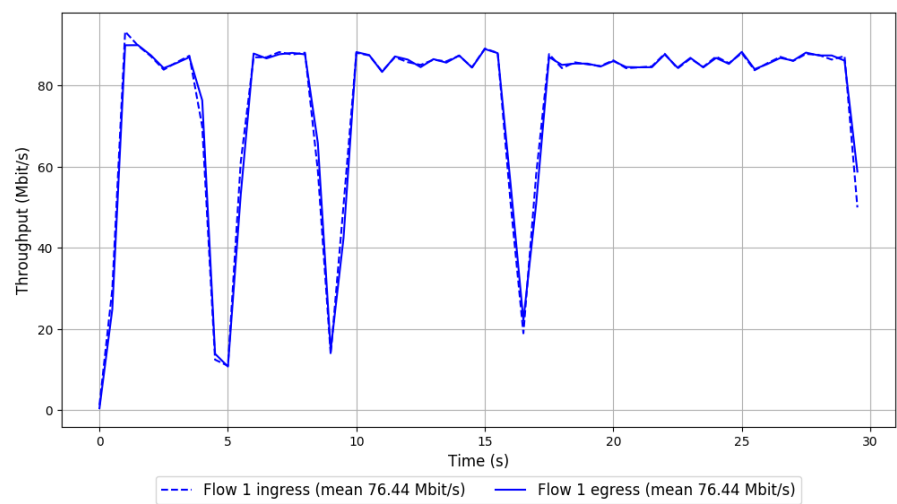
-- Flow 1:

Average throughput: 76.44 Mbit/s

95th percentile per-packet one-way delay: 50.733 ms

Loss rate: 0.00%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2017-11-16 03:30:41

End at: 2017-11-16 03:31:11

Below is generated by plot.py at 2017-11-16 05:36:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 60.43 Mbit/s

95th percentile per-packet one-way delay: 53.779 ms

Loss rate: 0.00%

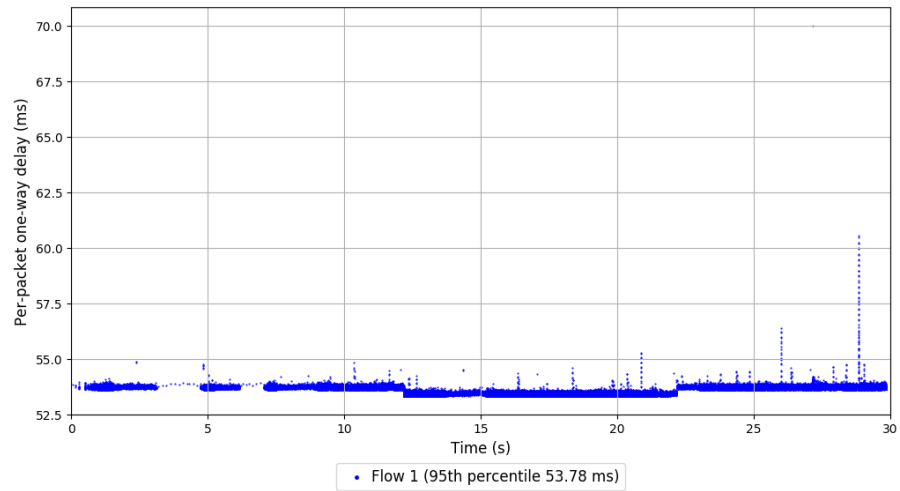
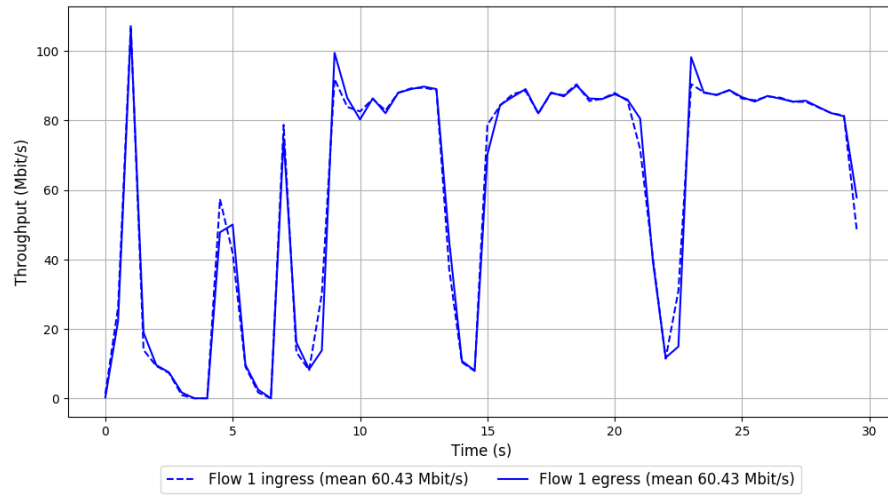
-- Flow 1:

Average throughput: 60.43 Mbit/s

95th percentile per-packet one-way delay: 53.779 ms

Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2017-11-16 03:40:58

End at: 2017-11-16 03:41:28

Below is generated by plot.py at 2017-11-16 05:36:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 57.44 Mbit/s

95th percentile per-packet one-way delay: 53.229 ms

Loss rate: 0.01%

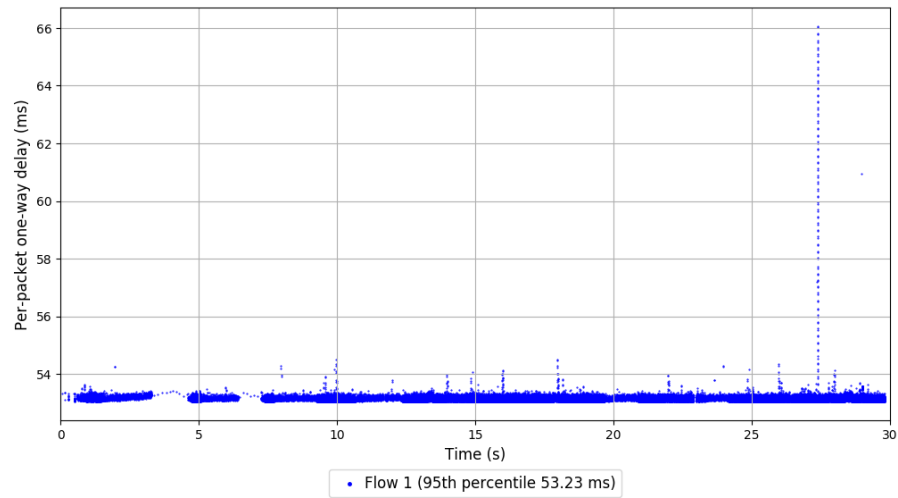
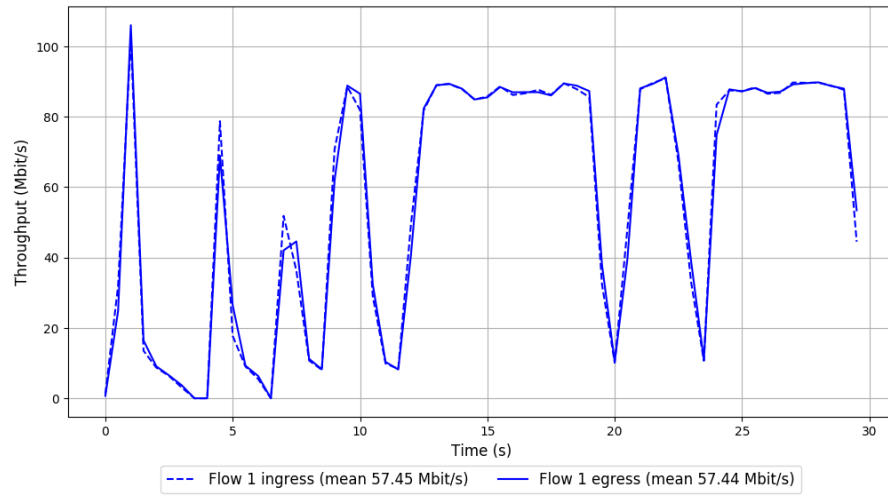
-- Flow 1:

Average throughput: 57.44 Mbit/s

95th percentile per-packet one-way delay: 53.229 ms

Loss rate: 0.01%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2017-11-16 03:51:09

End at: 2017-11-16 03:51:39

Below is generated by plot.py at 2017-11-16 05:36:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 45.15 Mbit/s

95th percentile per-packet one-way delay: 53.736 ms

Loss rate: 0.00%

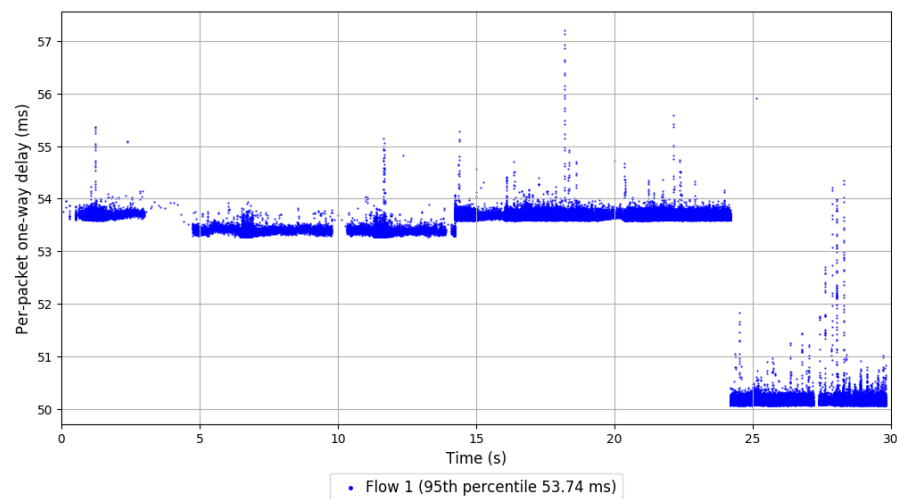
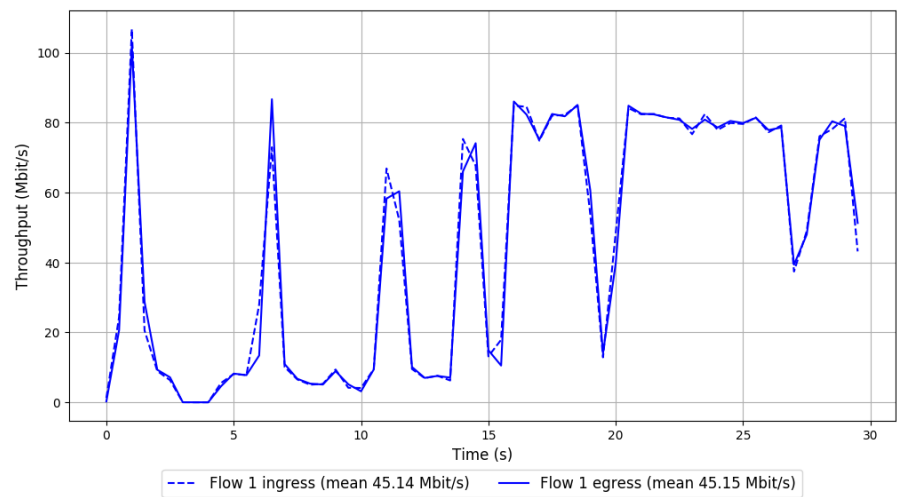
-- Flow 1:

Average throughput: 45.15 Mbit/s

95th percentile per-packet one-way delay: 53.736 ms

Loss rate: 0.00%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2017-11-16 04:01:13

End at: 2017-11-16 04:01:43

Below is generated by plot.py at 2017-11-16 05:36:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 61.44 Mbit/s

95th percentile per-packet one-way delay: 53.863 ms

Loss rate: 0.00%

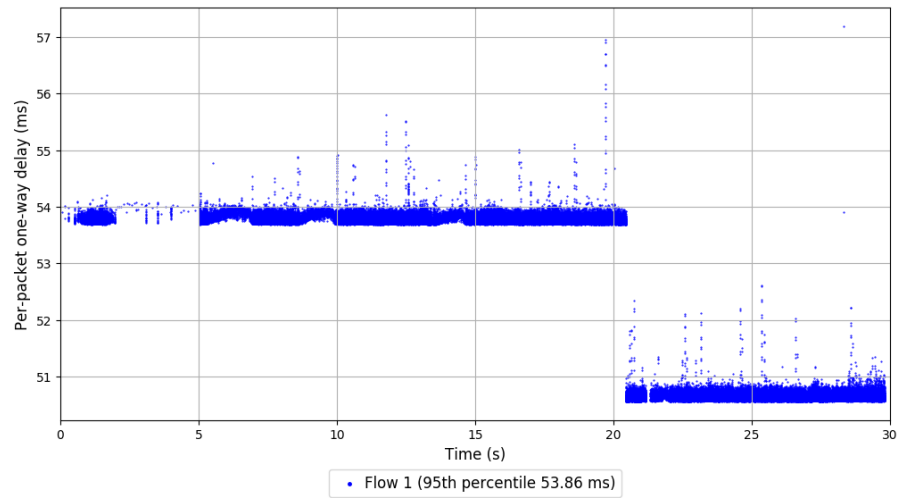
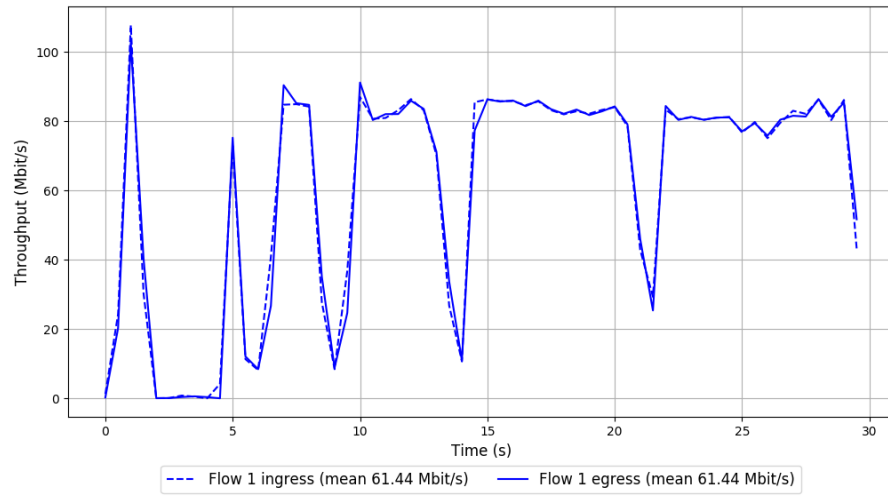
-- Flow 1:

Average throughput: 61.44 Mbit/s

95th percentile per-packet one-way delay: 53.863 ms

Loss rate: 0.00%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2017-11-16 04:10:54

End at: 2017-11-16 04:11:24

Below is generated by plot.py at 2017-11-16 05:36:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.52 Mbit/s

95th percentile per-packet one-way delay: 53.143 ms

Loss rate: 0.01%

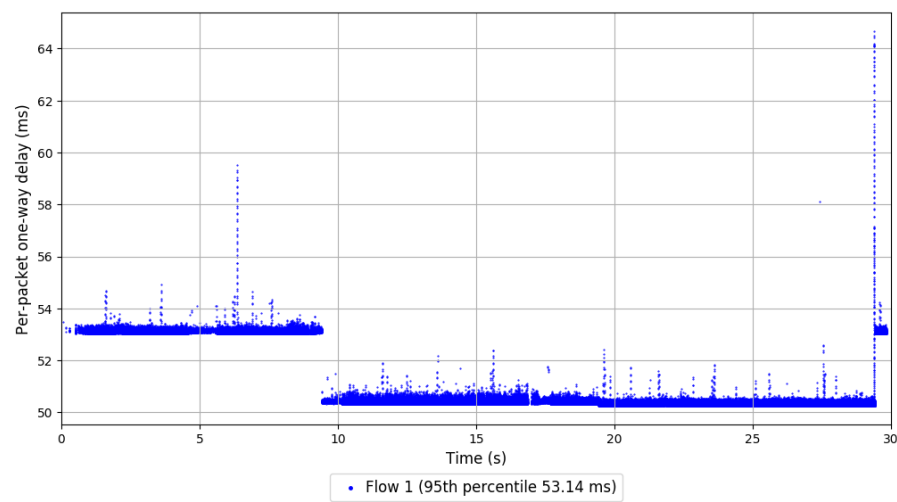
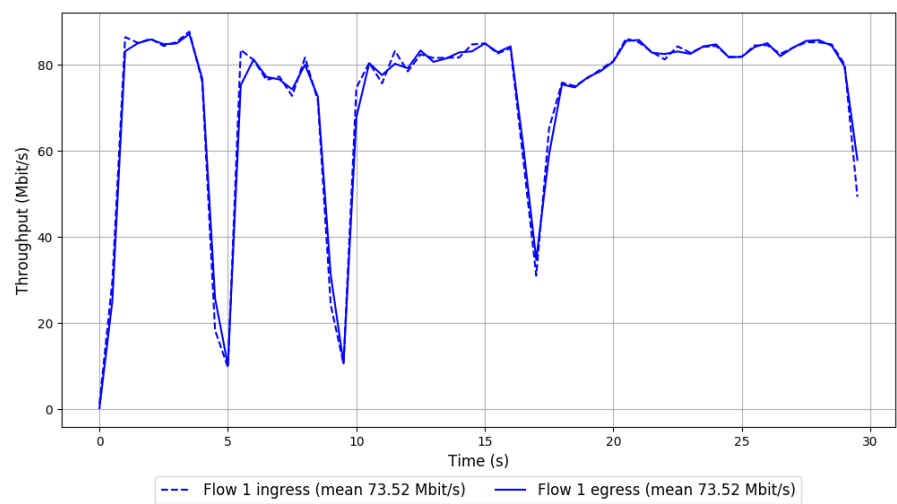
-- Flow 1:

Average throughput: 73.52 Mbit/s

95th percentile per-packet one-way delay: 53.143 ms

Loss rate: 0.01%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2017-11-16 04:21:18

End at: 2017-11-16 04:21:48

Below is generated by plot.py at 2017-11-16 05:36:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.13 Mbit/s

95th percentile per-packet one-way delay: 53.721 ms

Loss rate: 0.00%

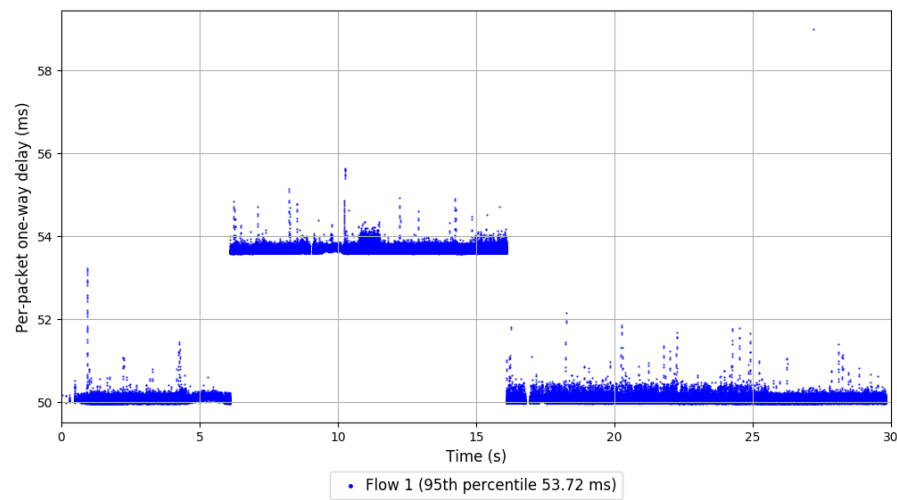
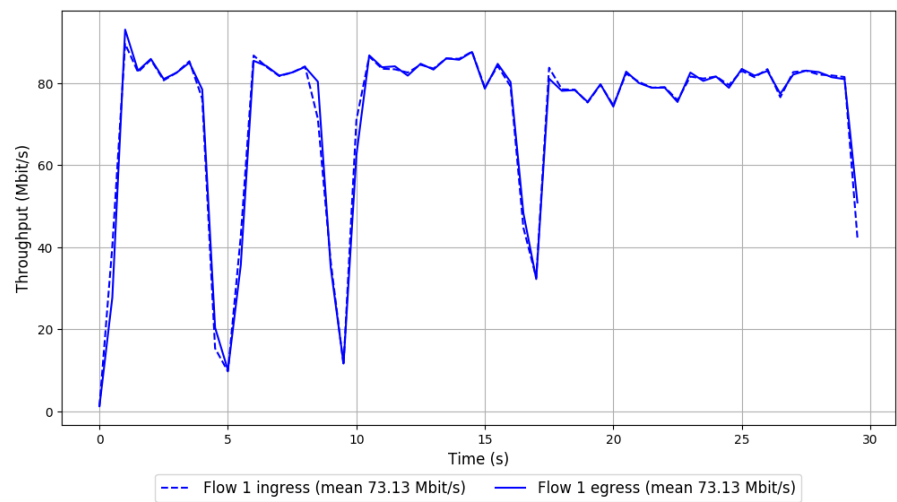
-- Flow 1:

Average throughput: 73.13 Mbit/s

95th percentile per-packet one-way delay: 53.721 ms

Loss rate: 0.00%

Run 9: Report of QUIC Cubic — Data Link

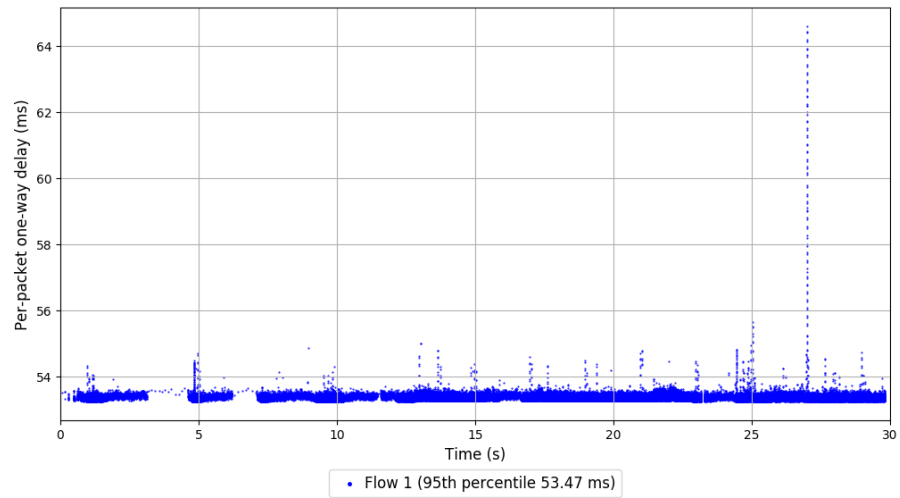
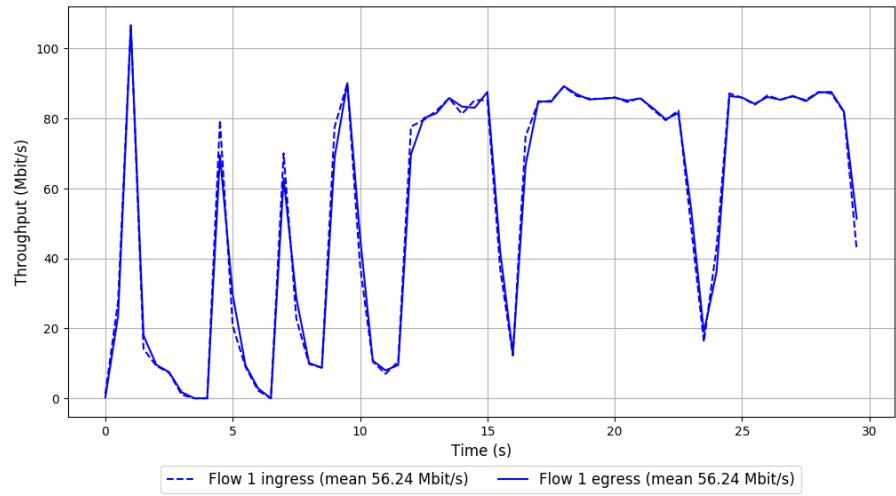


```
Run 10: Statistics of QUIC Cubic

Start at: 2017-11-16 04:31:11
End at: 2017-11-16 04:31:41

# Below is generated by plot.py at 2017-11-16 05:36:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 56.24 Mbit/s
95th percentile per-packet one-way delay: 53.474 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 56.24 Mbit/s
95th percentile per-packet one-way delay: 53.474 ms
Loss rate: 0.00%
```

Run 10: Report of QUIC Cubic — Data Link

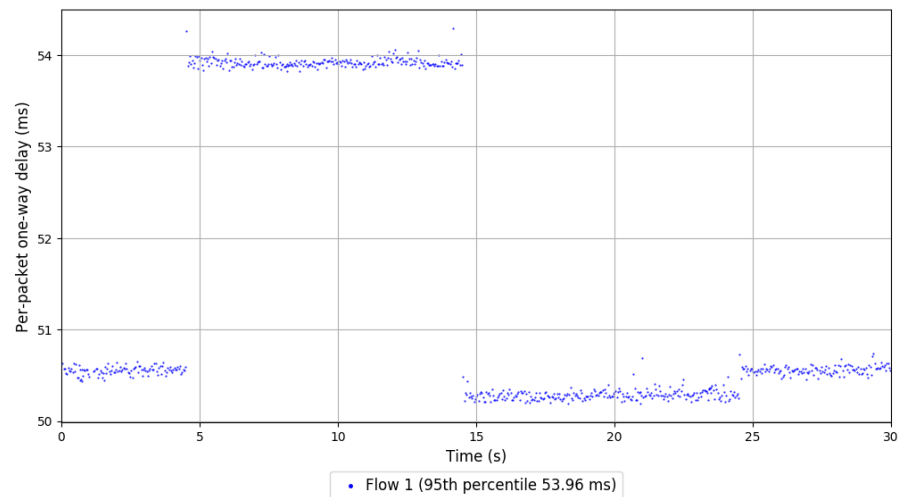
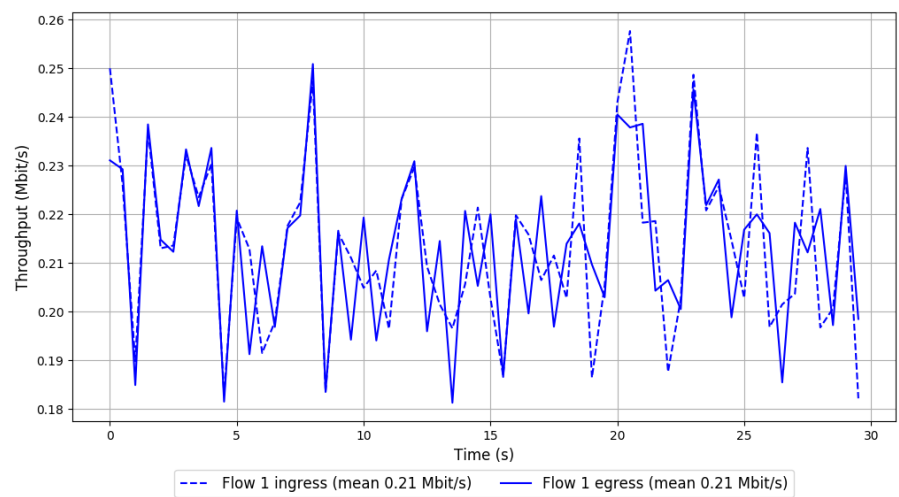


```
Run 1: Statistics of SCReAM

Start at: 2017-11-16 03:02:59
End at: 2017-11-16 03:03:29

# Below is generated by plot.py at 2017-11-16 05:36:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.962 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.962 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

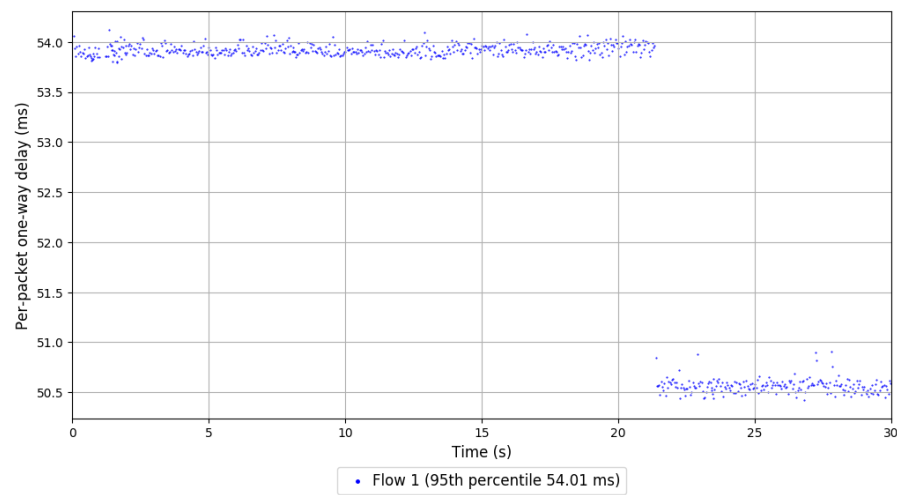
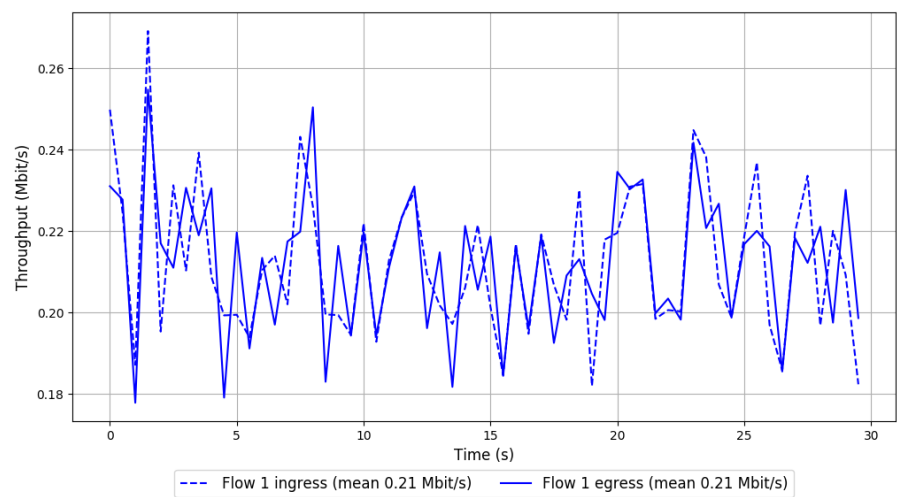


```
Run 2: Statistics of SCReAM

Start at: 2017-11-16 03:13:32
End at: 2017-11-16 03:14:02

# Below is generated by plot.py at 2017-11-16 05:36:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 54.008 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 54.008 ms
Loss rate: 0.00%
```

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2017-11-16 03:24:03

End at: 2017-11-16 03:24:33

Below is generated by plot.py at 2017-11-16 05:36:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.421 ms

Loss rate: 0.00%

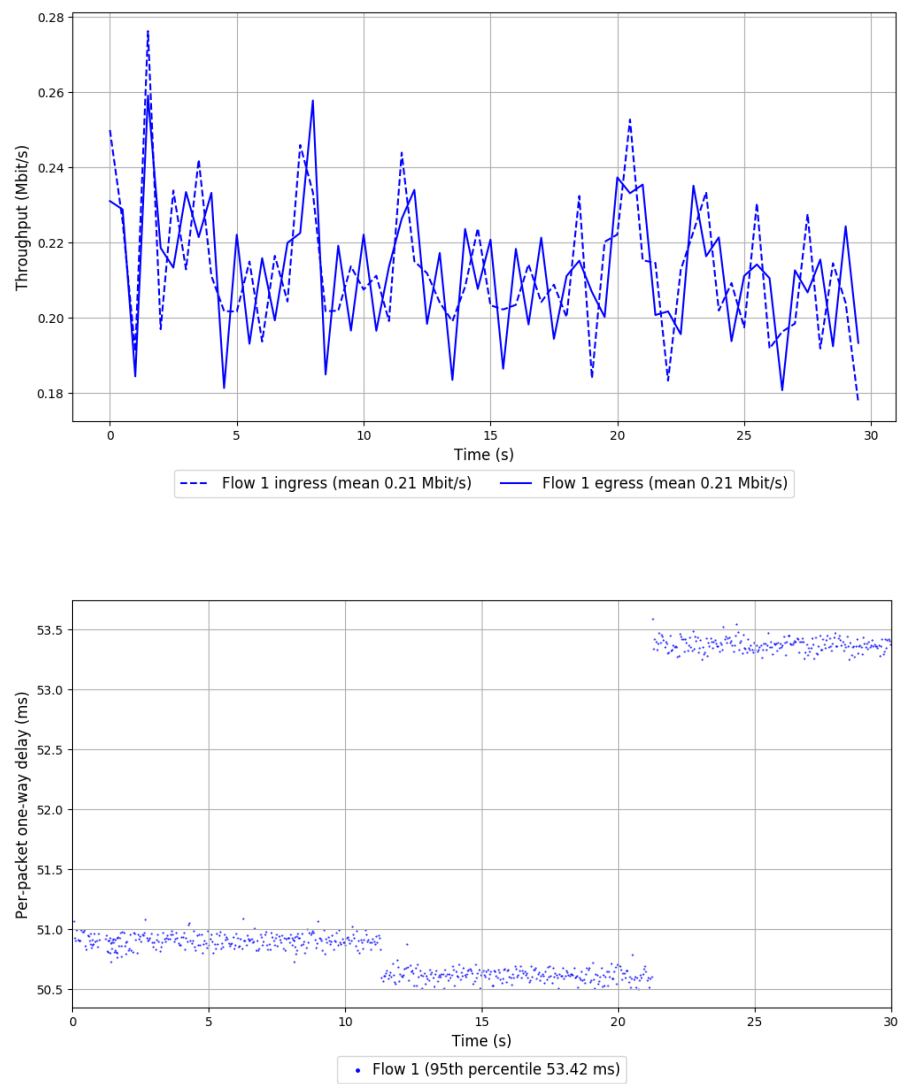
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.421 ms

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2017-11-16 03:34:05

End at: 2017-11-16 03:34:35

Below is generated by plot.py at 2017-11-16 05:36:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.575 ms

Loss rate: 0.00%

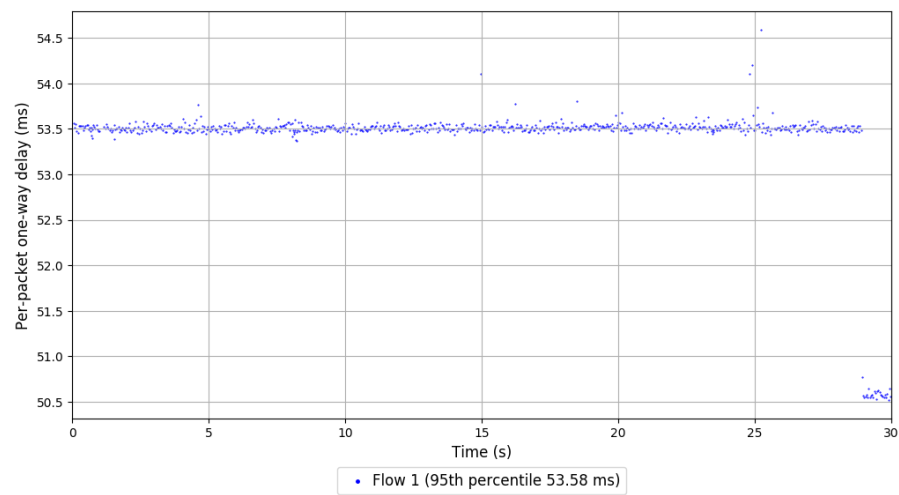
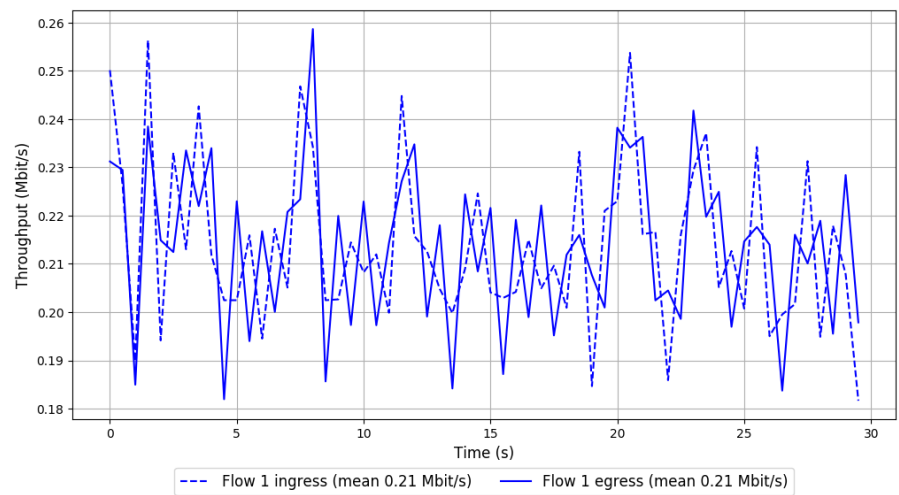
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.575 ms

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link

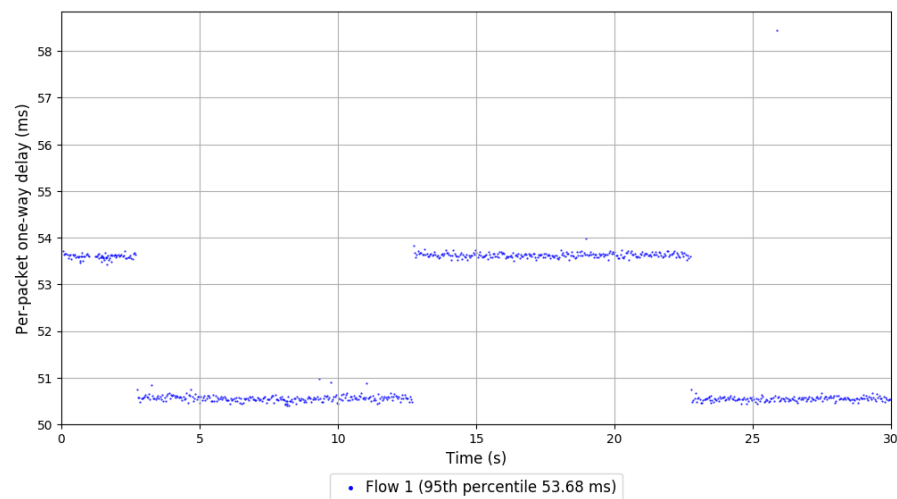
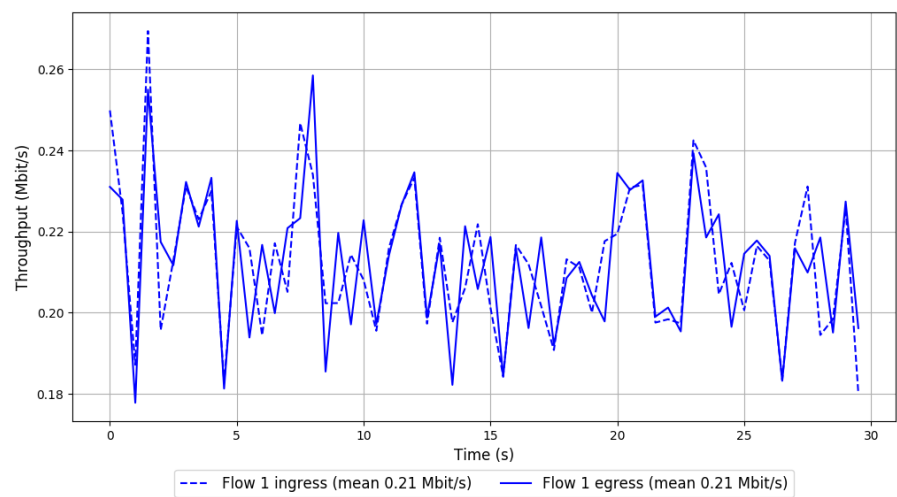


```
Run 5: Statistics of SCReAM

Start at: 2017-11-16 03:44:21
End at: 2017-11-16 03:44:51

# Below is generated by plot.py at 2017-11-16 05:36:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.682 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.682 ms
Loss rate: 0.00%
```

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2017-11-16 03:54:36

End at: 2017-11-16 03:55:06

Below is generated by plot.py at 2017-11-16 05:36:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.963 ms

Loss rate: 0.00%

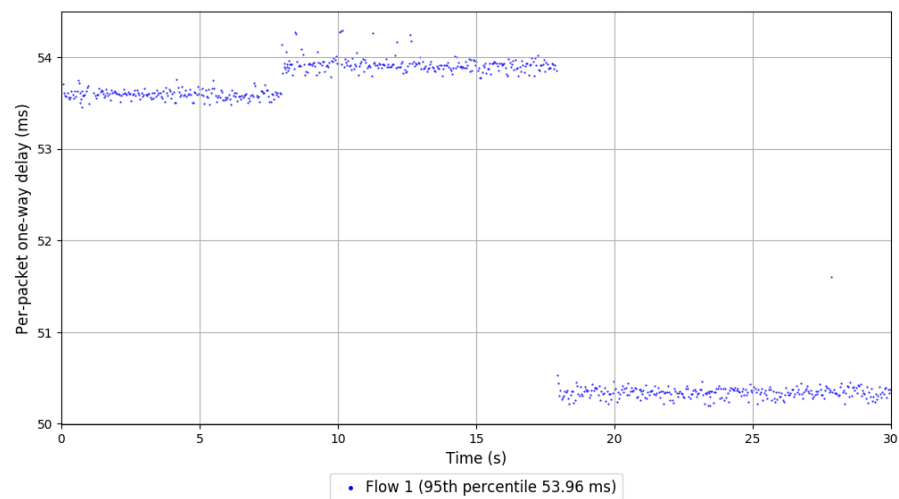
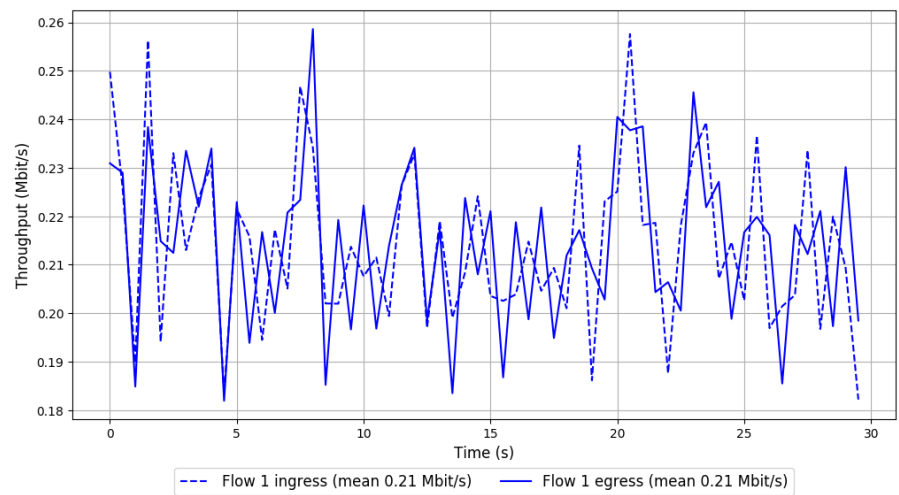
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.963 ms

Loss rate: 0.00%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2017-11-16 04:04:31

End at: 2017-11-16 04:05:01

Below is generated by plot.py at 2017-11-16 05:36:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.994 ms

Loss rate: 0.13%

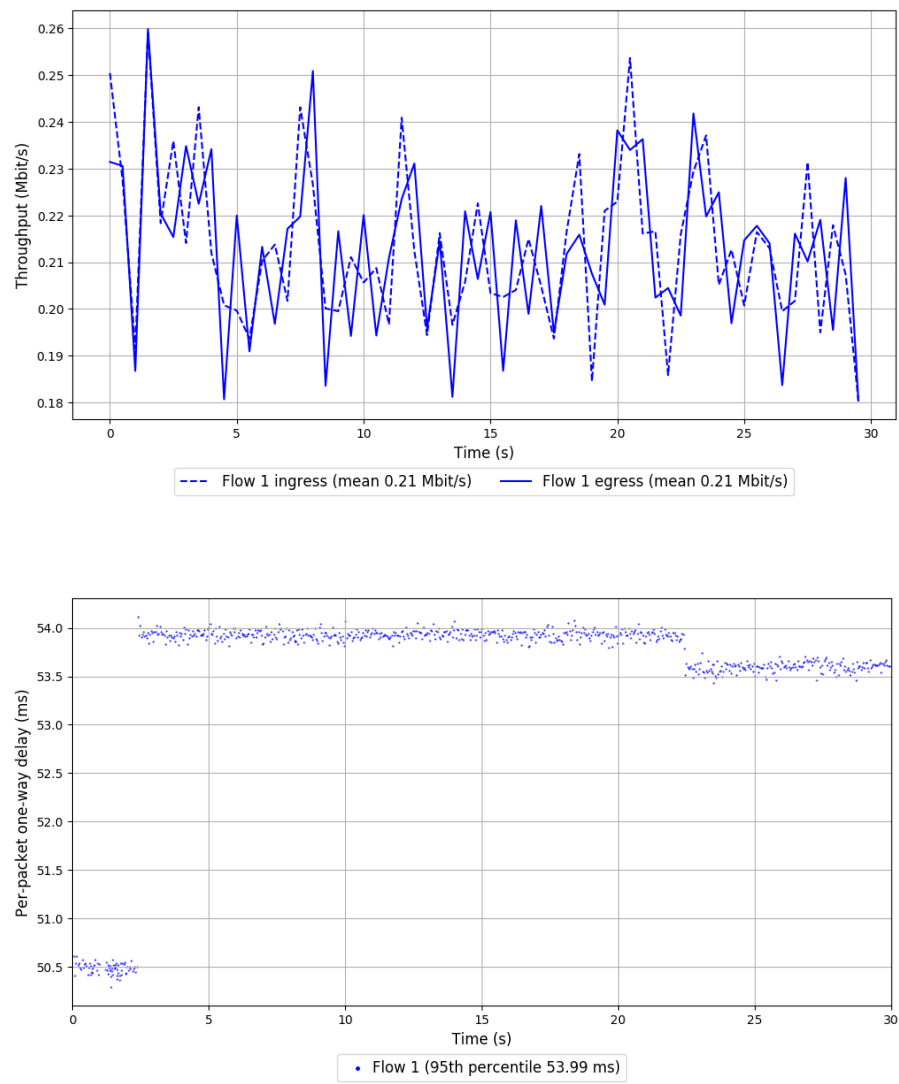
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.994 ms

Loss rate: 0.13%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2017-11-16 04:14:19

End at: 2017-11-16 04:14:49

Below is generated by plot.py at 2017-11-16 05:36:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 53.442 ms

Loss rate: 0.00%

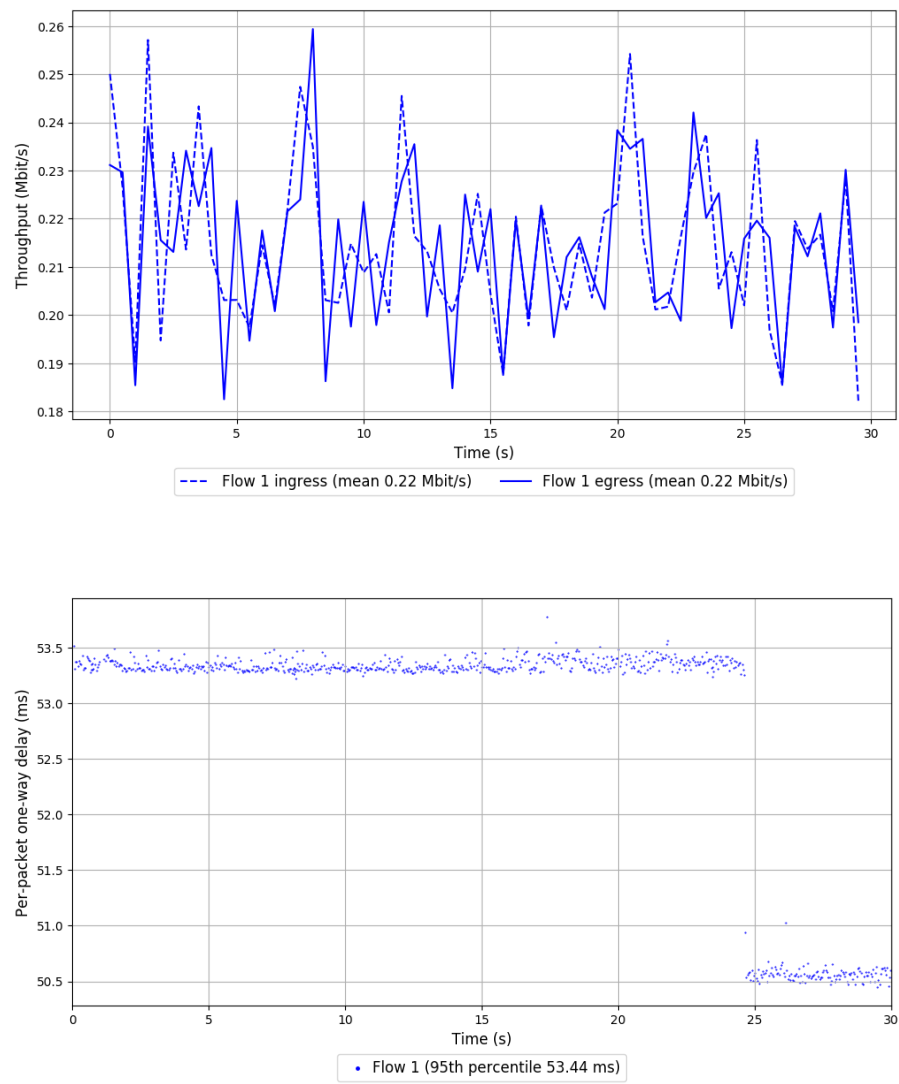
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 53.442 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2017-11-16 04:24:41

End at: 2017-11-16 04:25:11

Below is generated by plot.py at 2017-11-16 05:36:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.689 ms

Loss rate: 0.00%

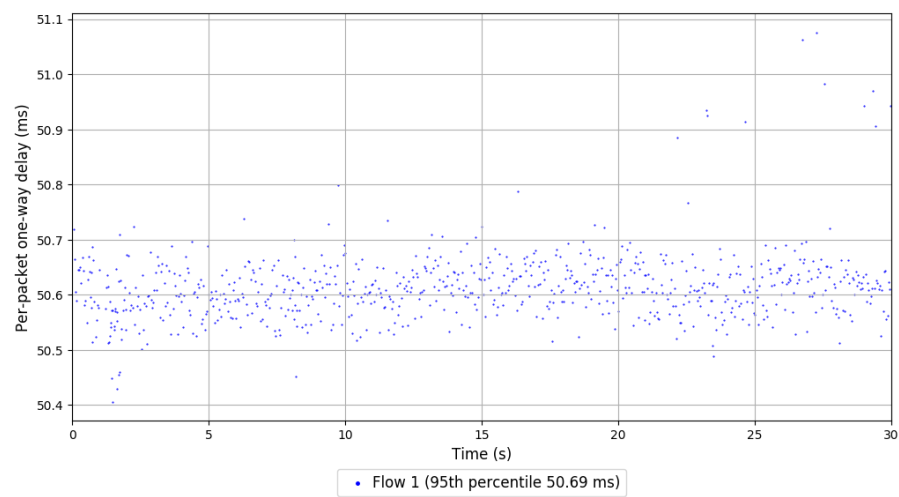
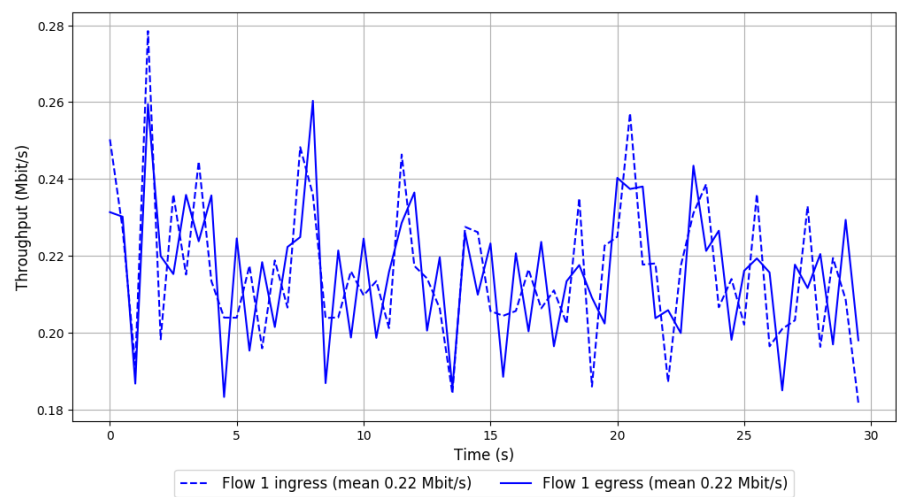
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.689 ms

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2017-11-16 04:34:35

End at: 2017-11-16 04:35:05

Below is generated by plot.py at 2017-11-16 05:36:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 53.607 ms

Loss rate: 0.00%

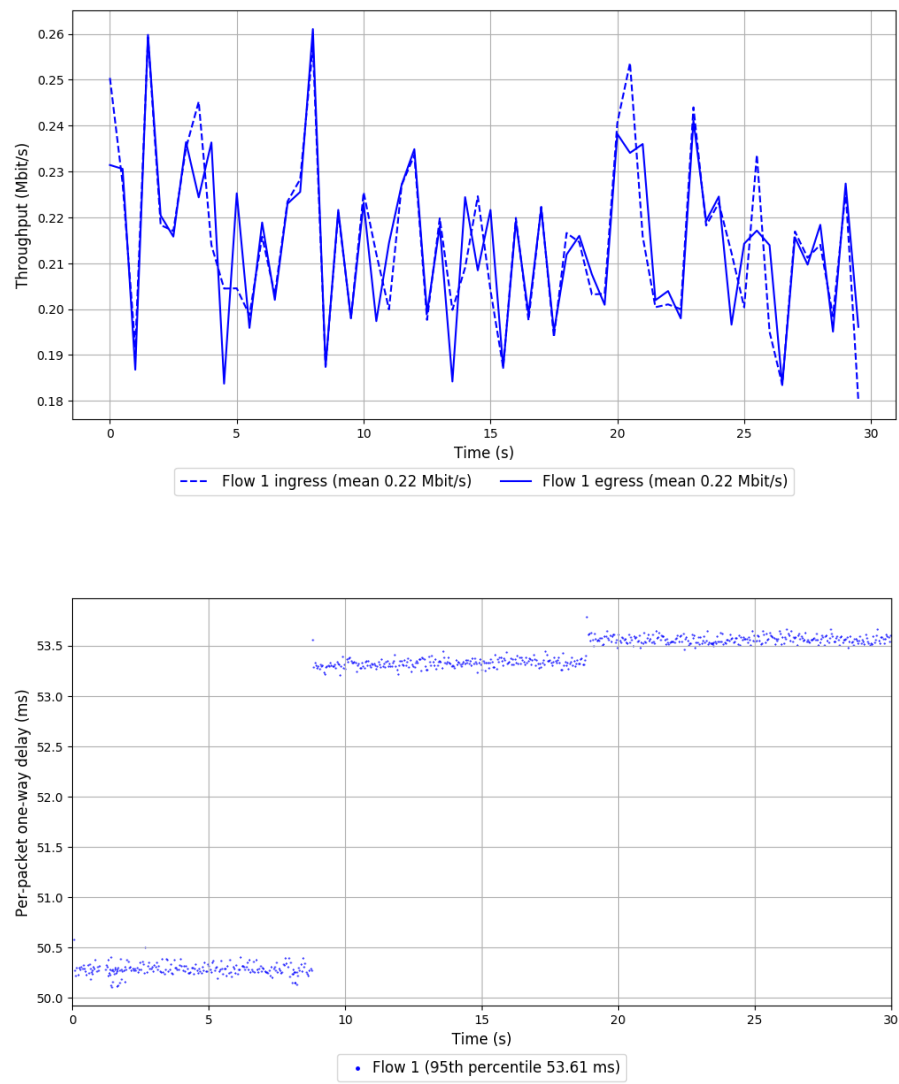
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 53.607 ms

Loss rate: 0.00%

Run 10: Report of SReAM — Data Link

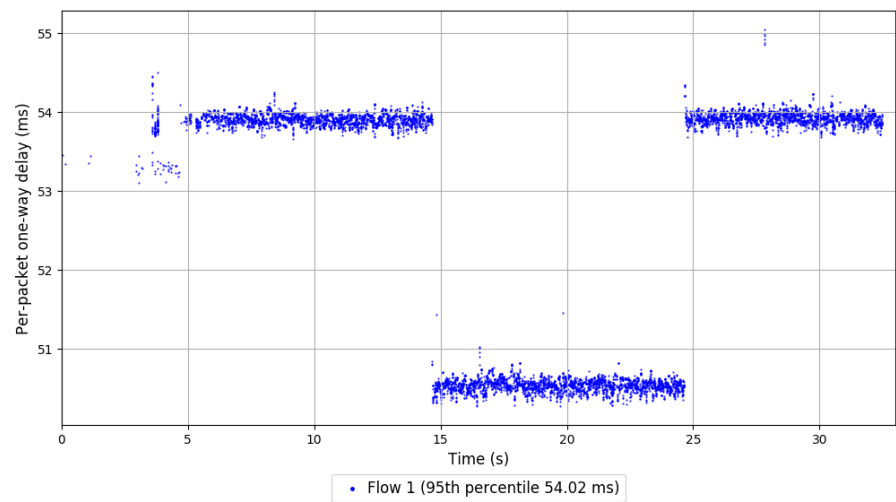
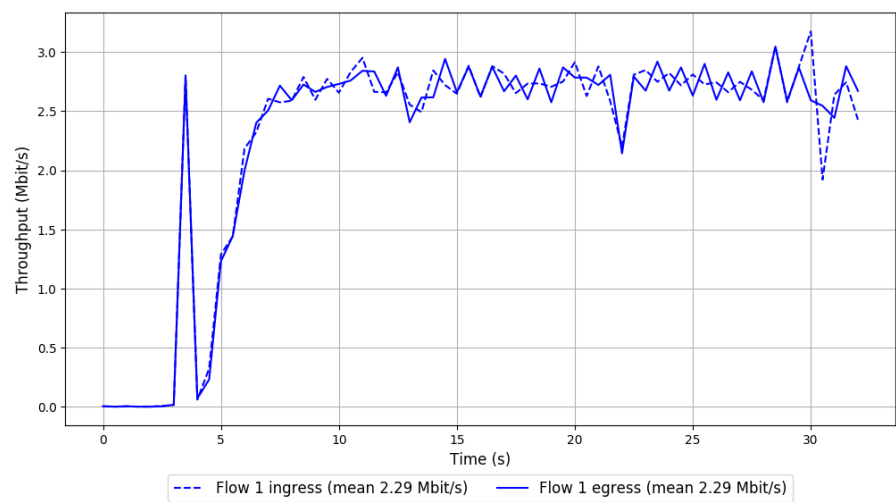


```
Run 1: Statistics of WebRTC media

Start at: 2017-11-16 03:00:12
End at: 2017-11-16 03:00:42

# Below is generated by plot.py at 2017-11-16 05:36:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.29 Mbit/s
95th percentile per-packet one-way delay: 54.018 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.29 Mbit/s
95th percentile per-packet one-way delay: 54.018 ms
Loss rate: 0.00%
```

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2017-11-16 03:10:49

End at: 2017-11-16 03:11:19

Below is generated by plot.py at 2017-11-16 05:36:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 53.772 ms

Loss rate: 0.00%

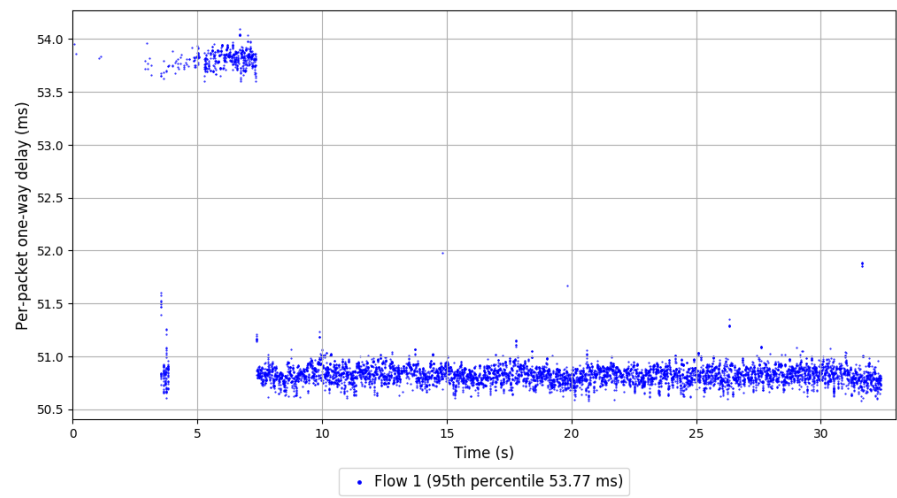
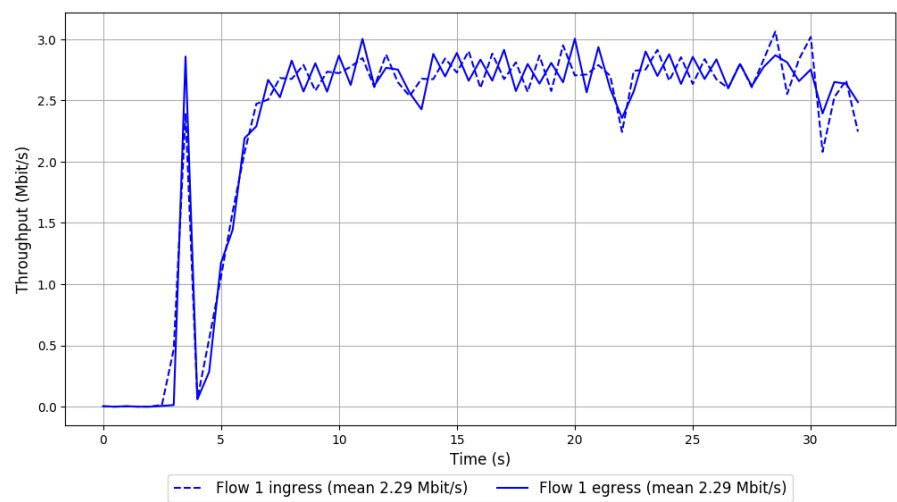
-- Flow 1:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 53.772 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2017-11-16 03:21:18

End at: 2017-11-16 03:21:48

Below is generated by plot.py at 2017-11-16 05:36:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 50.841 ms

Loss rate: 0.00%

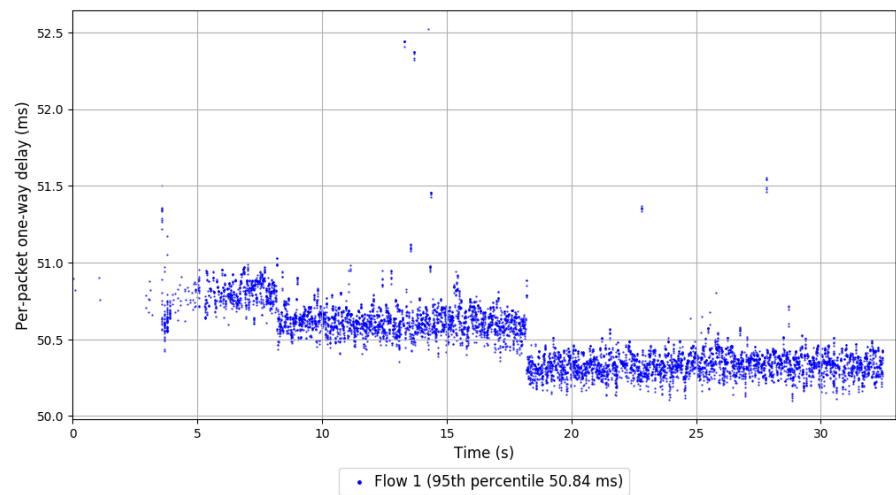
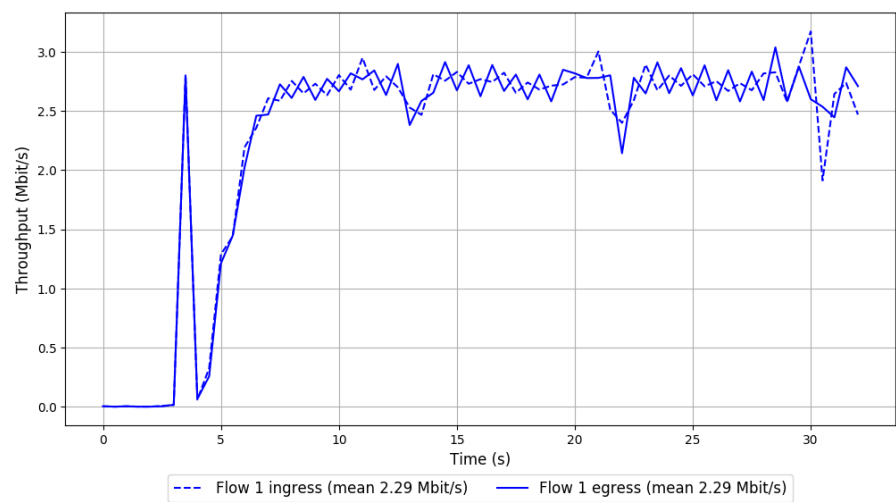
-- Flow 1:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 50.841 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2017-11-16 03:31:22

End at: 2017-11-16 03:31:52

Below is generated by plot.py at 2017-11-16 05:36:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.30 Mbit/s

95th percentile per-packet one-way delay: 50.379 ms

Loss rate: 0.00%

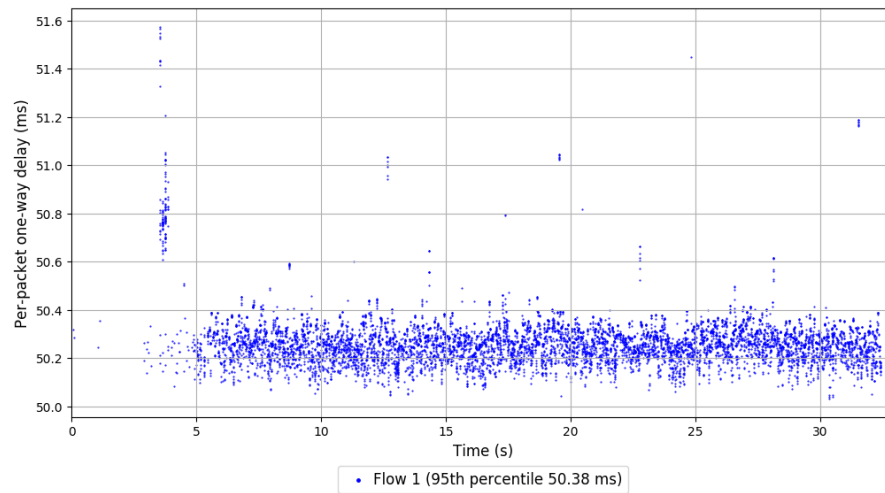
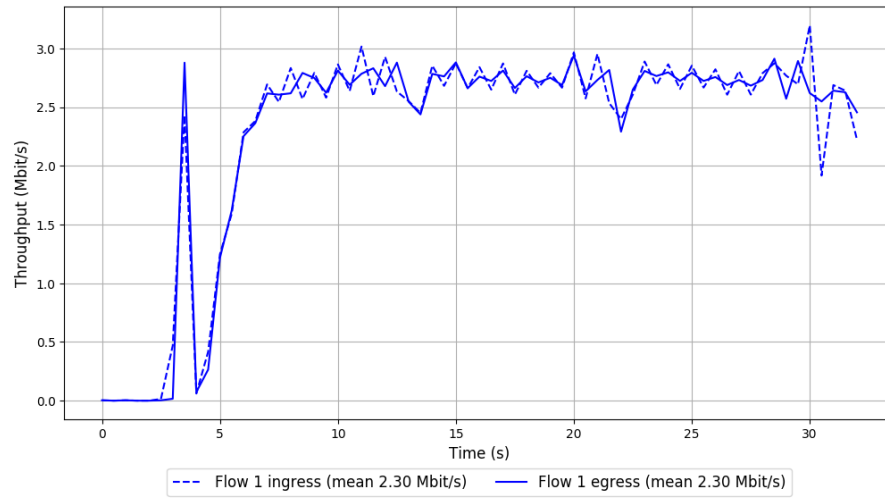
-- Flow 1:

Average throughput: 2.30 Mbit/s

95th percentile per-packet one-way delay: 50.379 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2017-11-16 03:41:38

End at: 2017-11-16 03:42:08

Below is generated by plot.py at 2017-11-16 05:36:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 53.647 ms

Loss rate: 0.00%

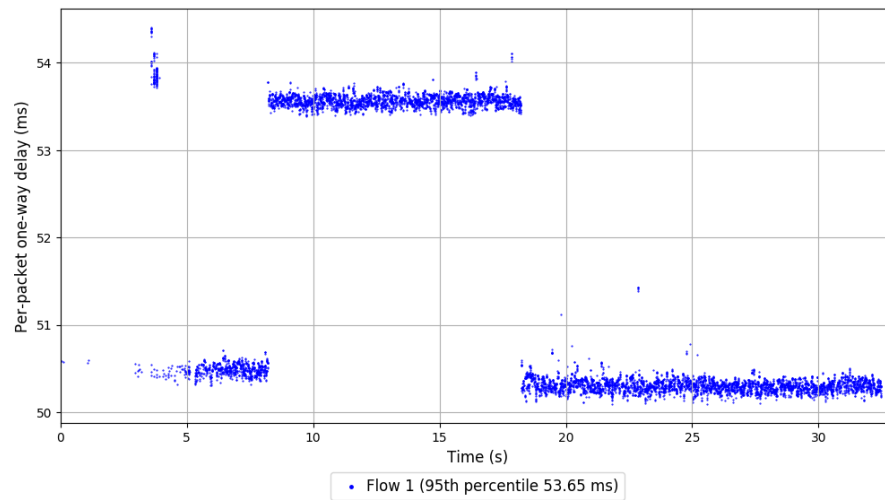
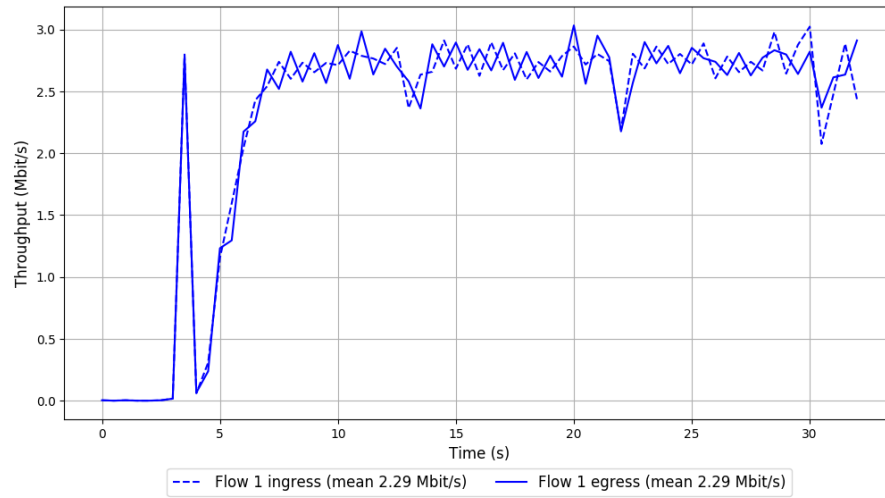
-- Flow 1:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 53.647 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2017-11-16 03:51:49

End at: 2017-11-16 03:52:19

Below is generated by plot.py at 2017-11-16 05:36:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.30 Mbit/s

95th percentile per-packet one-way delay: 53.596 ms

Loss rate: 0.00%

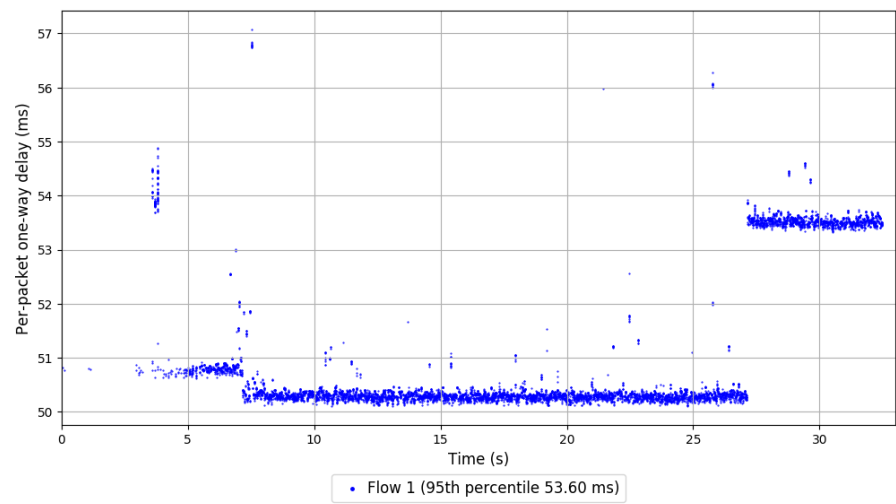
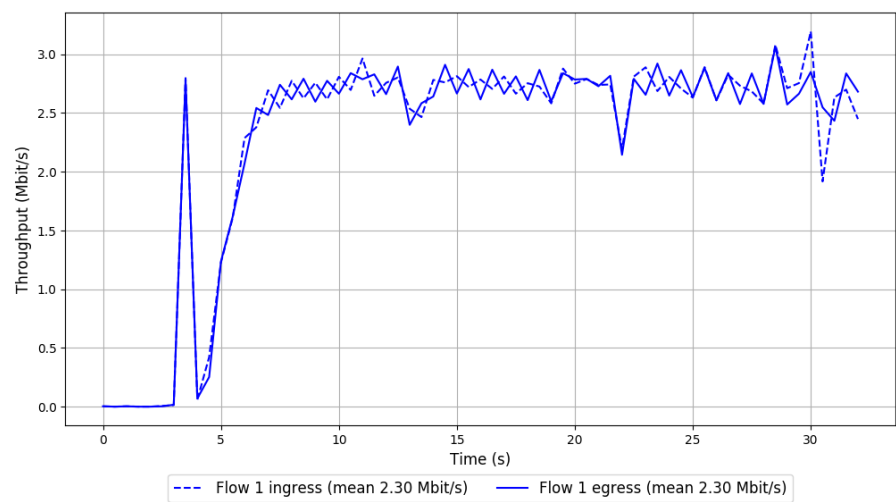
-- Flow 1:

Average throughput: 2.30 Mbit/s

95th percentile per-packet one-way delay: 53.596 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2017-11-16 04:01:54

End at: 2017-11-16 04:02:24

Below is generated by plot.py at 2017-11-16 05:36:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 50.711 ms

Loss rate: 0.00%

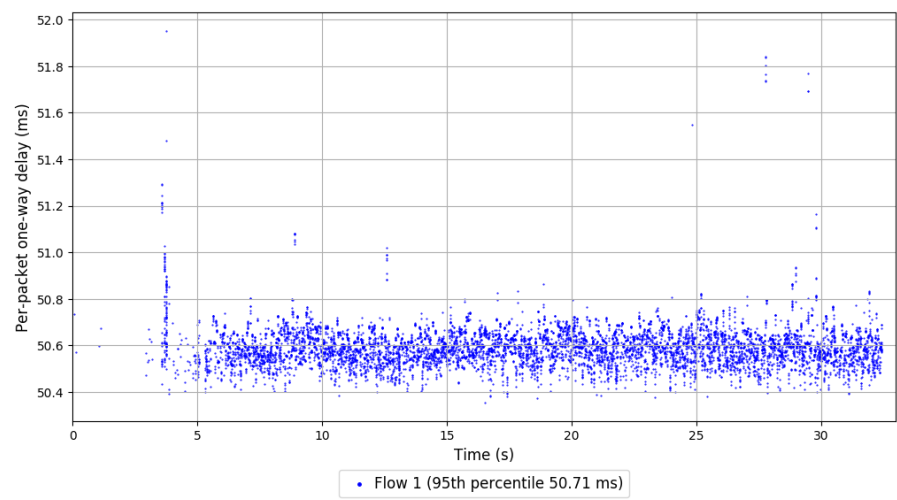
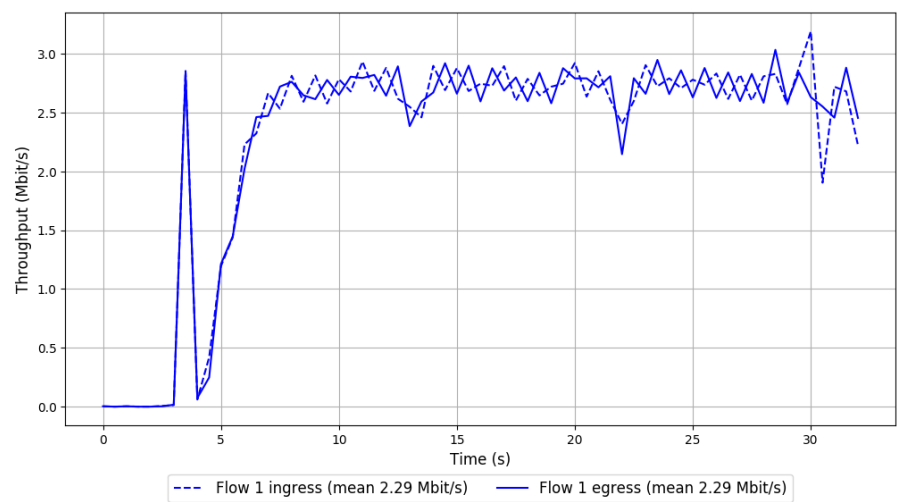
-- Flow 1:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 50.711 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2017-11-16 04:11:36

End at: 2017-11-16 04:12:06

Below is generated by plot.py at 2017-11-16 05:36:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 53.947 ms

Loss rate: 0.01%

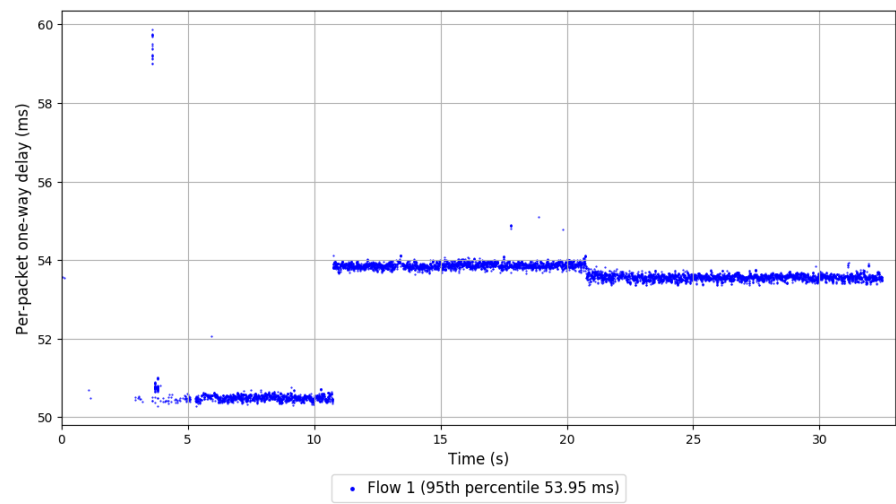
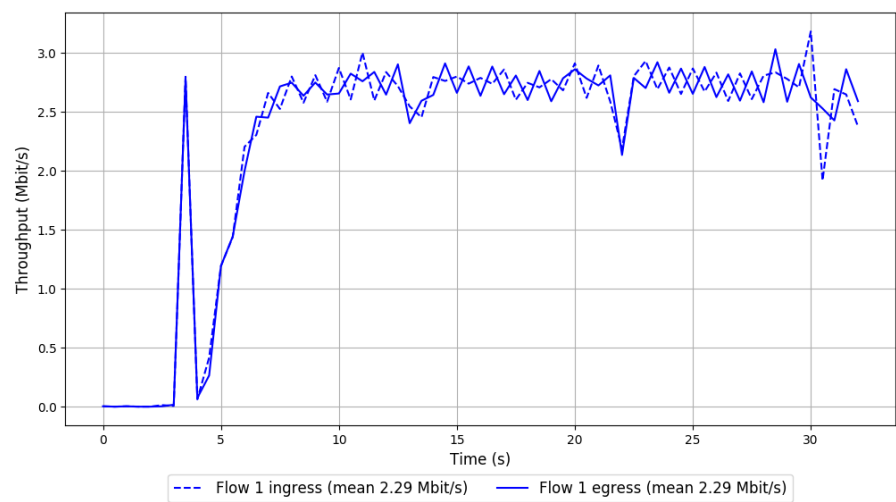
-- Flow 1:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 53.947 ms

Loss rate: 0.01%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2017-11-16 04:21:59

End at: 2017-11-16 04:22:29

Below is generated by plot.py at 2017-11-16 05:36:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 53.372 ms

Loss rate: 0.00%

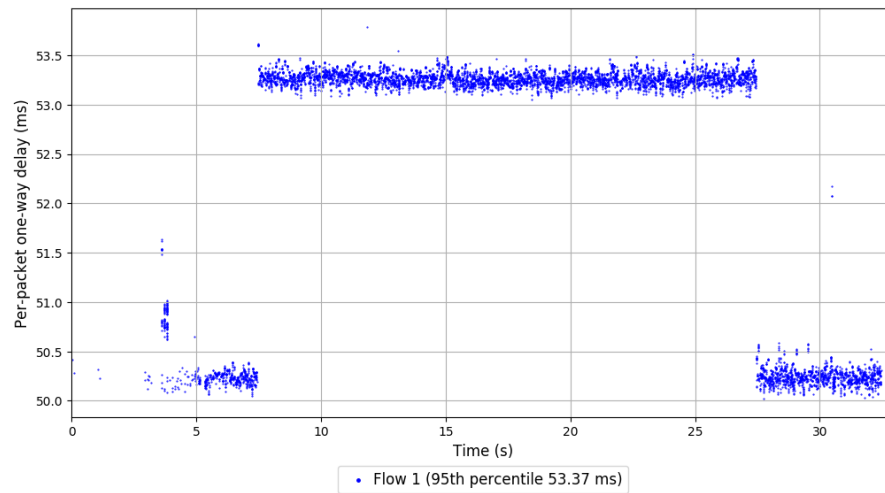
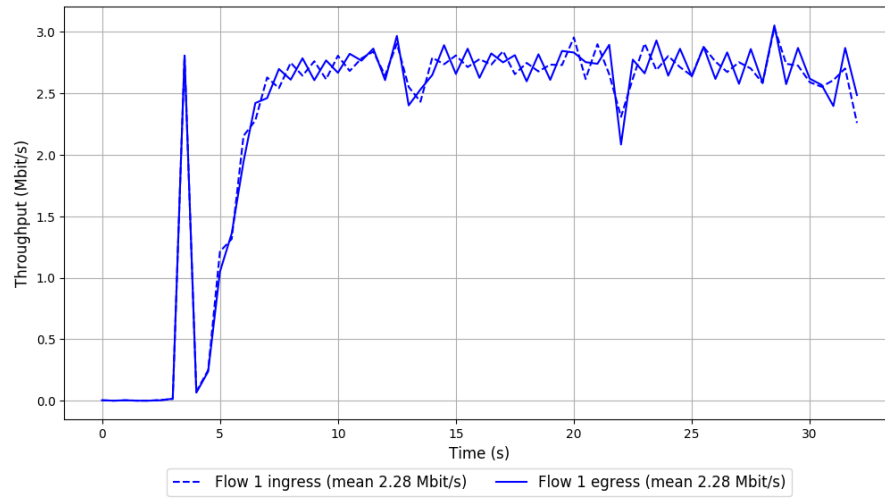
-- Flow 1:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 53.372 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2017-11-16 04:31:51

End at: 2017-11-16 04:32:21

Below is generated by plot.py at 2017-11-16 05:36:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 53.414 ms

Loss rate: 0.00%

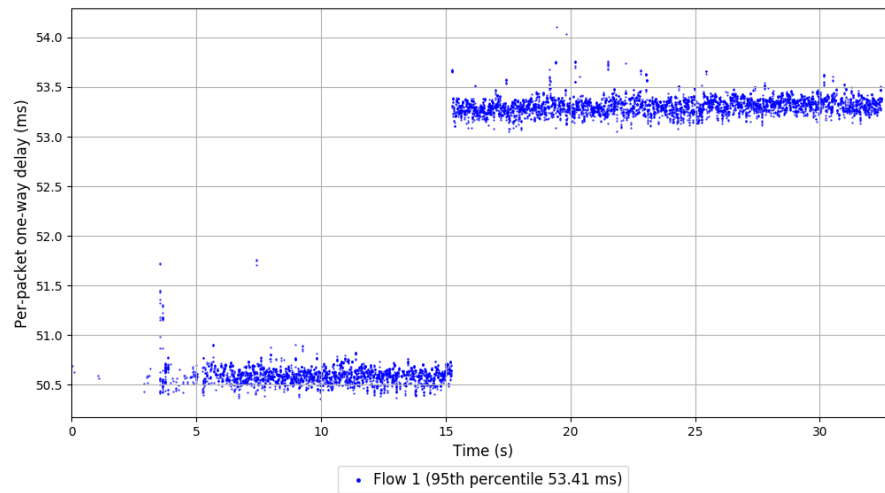
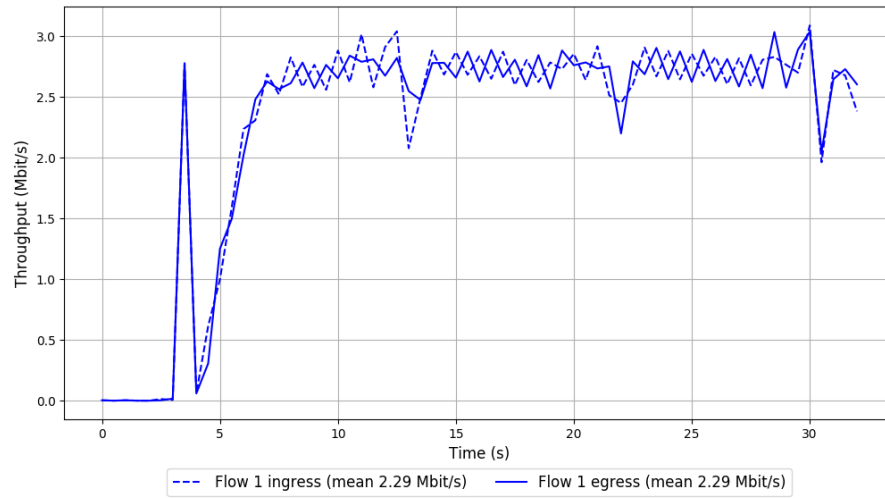
-- Flow 1:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 53.414 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

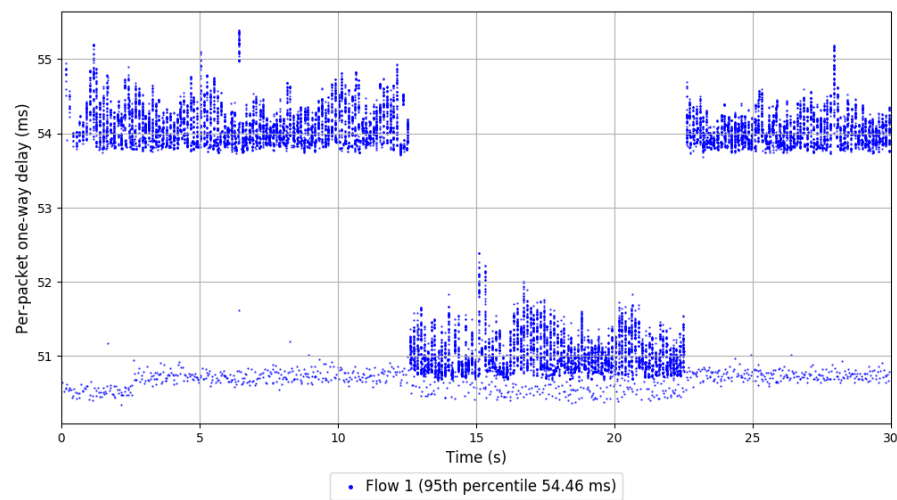
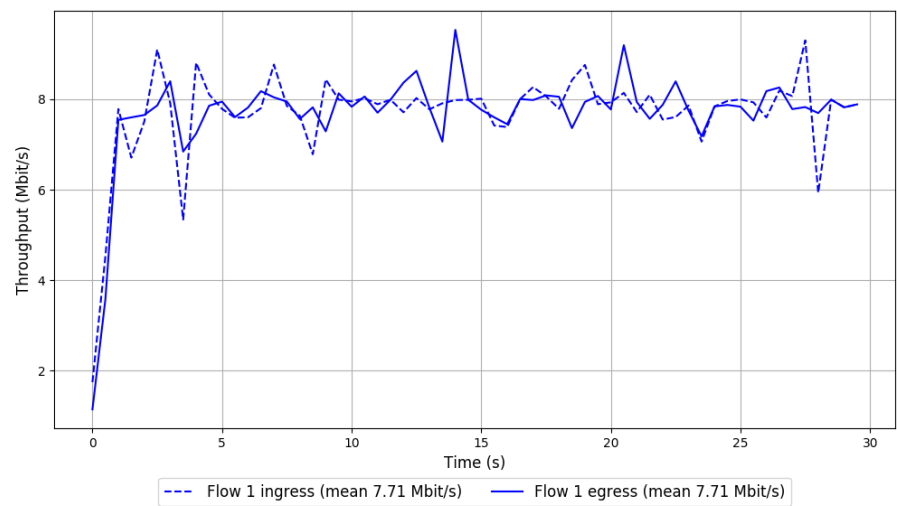


```
Run 1: Statistics of Sprout

Start at: 2017-11-16 02:54:31
End at: 2017-11-16 02:55:01

# Below is generated by plot.py at 2017-11-16 05:36:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.71 Mbit/s
95th percentile per-packet one-way delay: 54.457 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.71 Mbit/s
95th percentile per-packet one-way delay: 54.457 ms
Loss rate: 0.00%
```

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2017-11-16 03:05:17

End at: 2017-11-16 03:05:47

Below is generated by plot.py at 2017-11-16 05:36:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.76 Mbit/s

95th percentile per-packet one-way delay: 54.620 ms

Loss rate: 0.03%

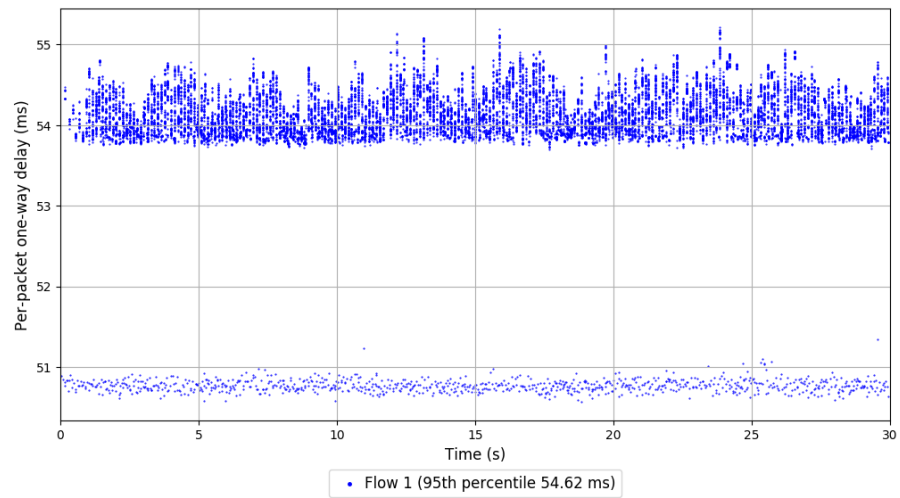
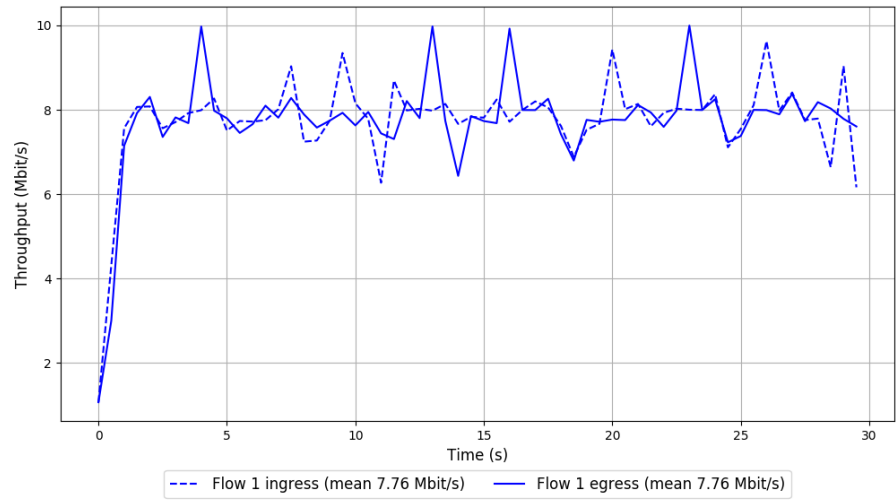
-- Flow 1:

Average throughput: 7.76 Mbit/s

95th percentile per-packet one-way delay: 54.620 ms

Loss rate: 0.03%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2017-11-16 03:15:50

End at: 2017-11-16 03:16:20

Below is generated by plot.py at 2017-11-16 05:36:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.83 Mbit/s

95th percentile per-packet one-way delay: 53.869 ms

Loss rate: 0.09%

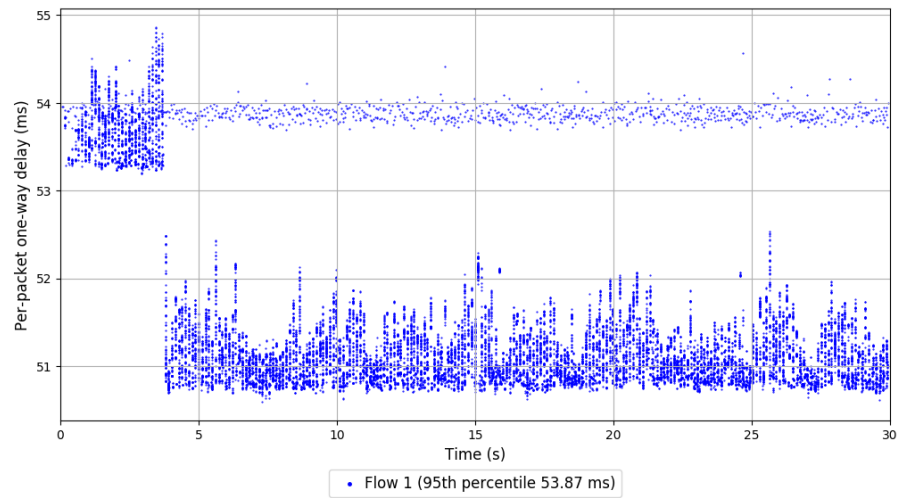
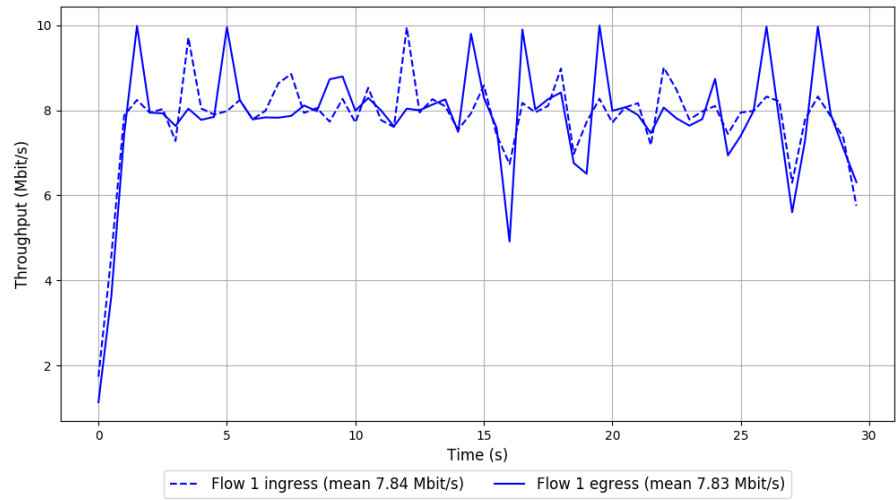
-- Flow 1:

Average throughput: 7.83 Mbit/s

95th percentile per-packet one-way delay: 53.869 ms

Loss rate: 0.09%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2017-11-16 03:26:19

End at: 2017-11-16 03:26:49

Below is generated by plot.py at 2017-11-16 05:36:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.86 Mbit/s

95th percentile per-packet one-way delay: 54.587 ms

Loss rate: 0.00%

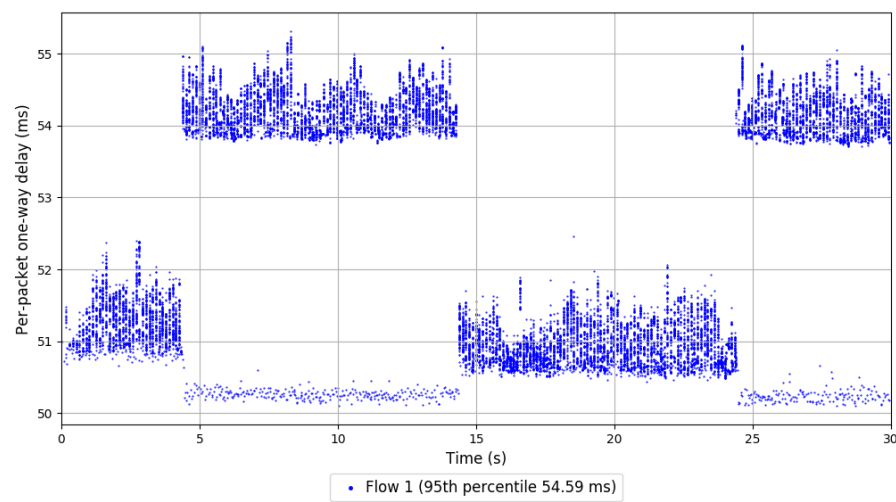
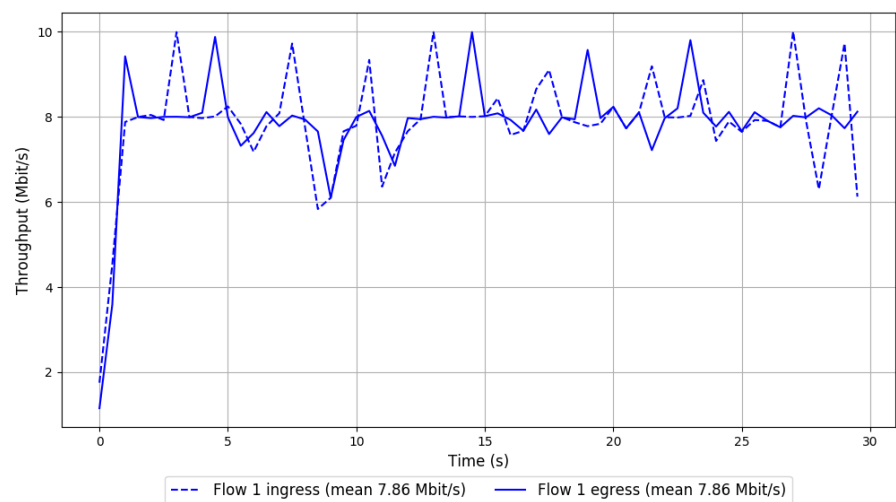
-- Flow 1:

Average throughput: 7.86 Mbit/s

95th percentile per-packet one-way delay: 54.587 ms

Loss rate: 0.00%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2017-11-16 03:36:22

End at: 2017-11-16 03:36:52

Below is generated by plot.py at 2017-11-16 05:36:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.91 Mbit/s

95th percentile per-packet one-way delay: 54.534 ms

Loss rate: 0.04%

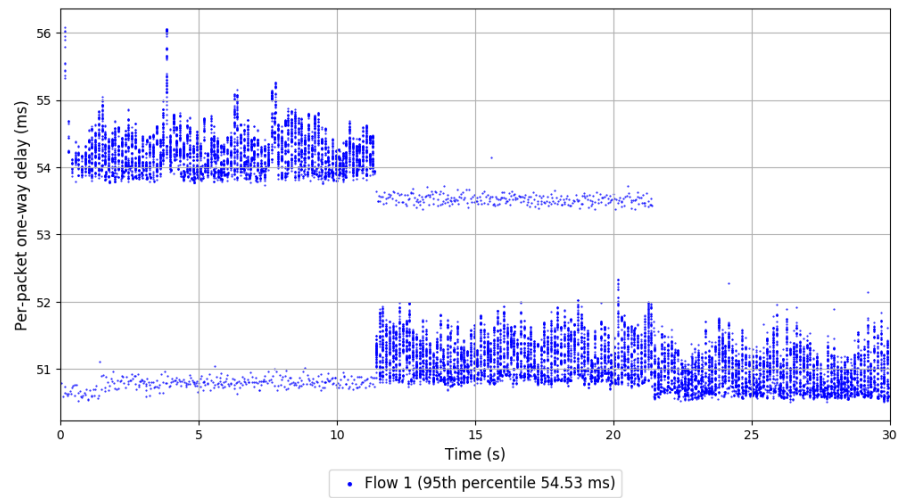
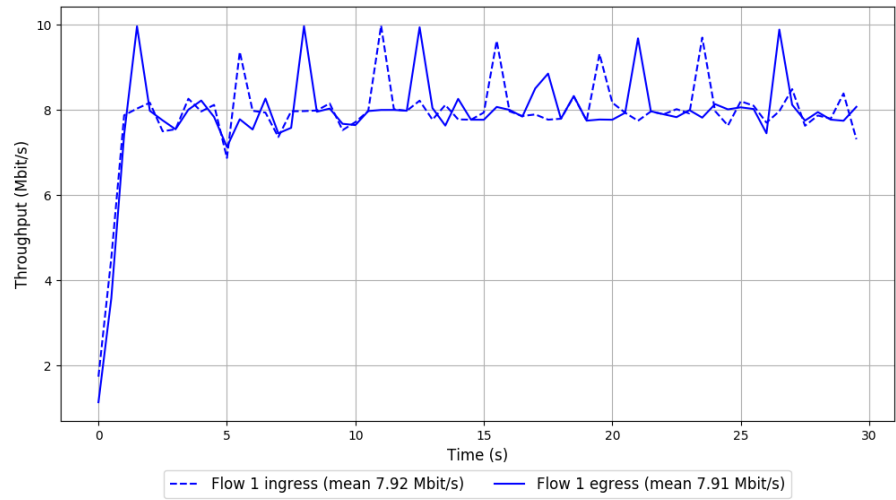
-- Flow 1:

Average throughput: 7.91 Mbit/s

95th percentile per-packet one-way delay: 54.534 ms

Loss rate: 0.04%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2017-11-16 03:46:37

End at: 2017-11-16 03:47:07

Below is generated by plot.py at 2017-11-16 05:36:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.77 Mbit/s

95th percentile per-packet one-way delay: 54.073 ms

Loss rate: 0.03%

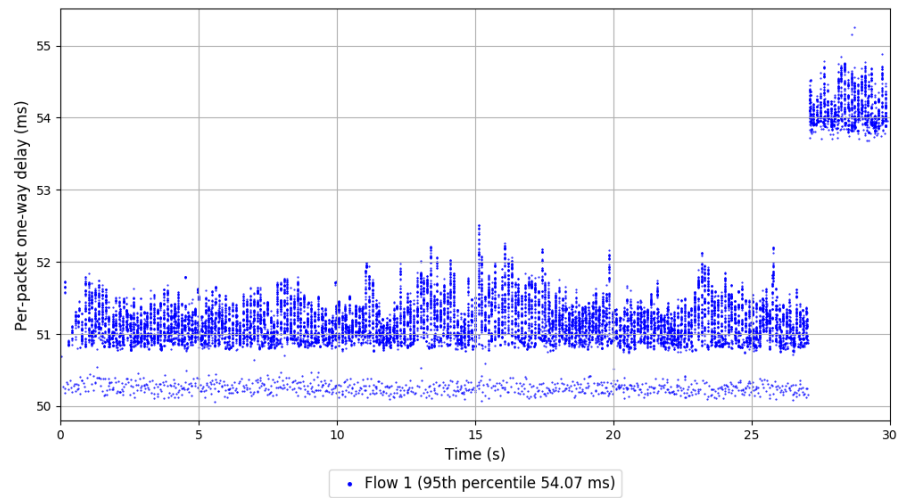
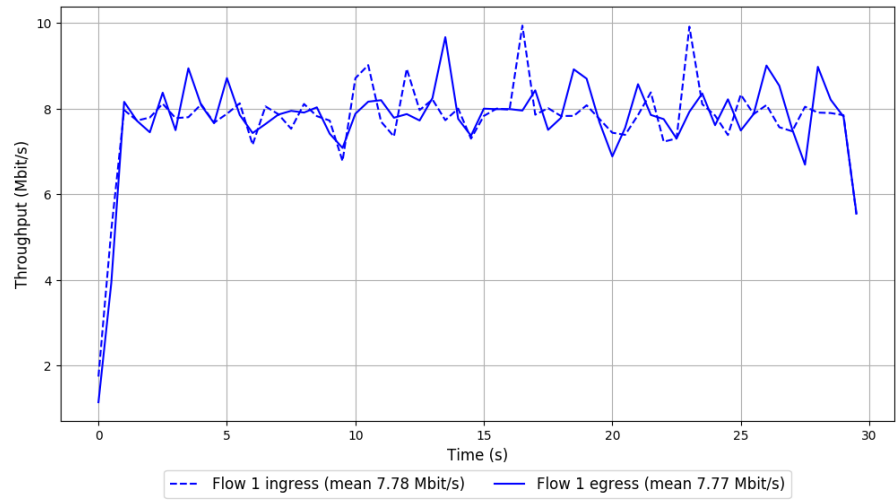
-- Flow 1:

Average throughput: 7.77 Mbit/s

95th percentile per-packet one-way delay: 54.073 ms

Loss rate: 0.03%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2017-11-16 03:56:52

End at: 2017-11-16 03:57:22

Below is generated by plot.py at 2017-11-16 05:36:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.89 Mbit/s

95th percentile per-packet one-way delay: 53.992 ms

Loss rate: 0.00%

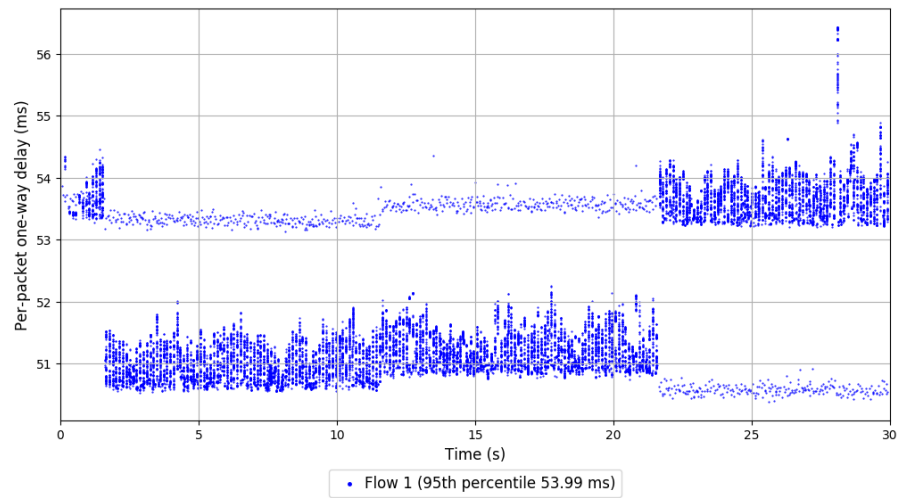
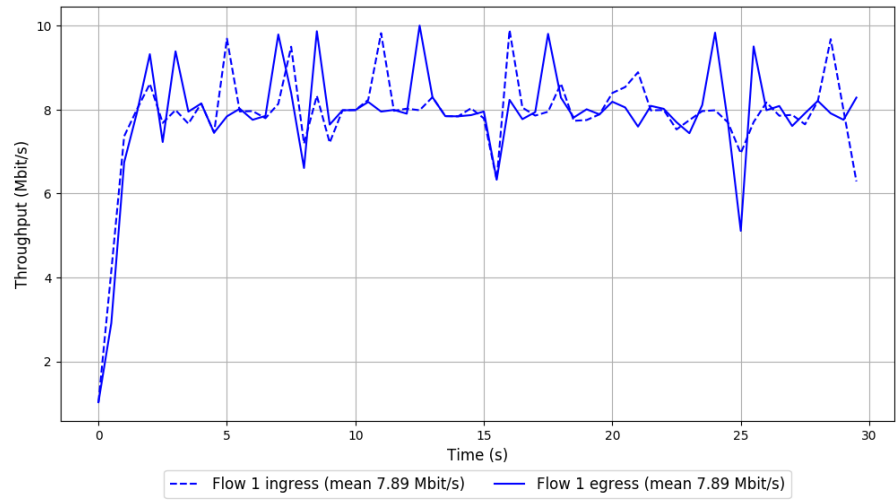
-- Flow 1:

Average throughput: 7.89 Mbit/s

95th percentile per-packet one-way delay: 53.992 ms

Loss rate: 0.00%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2017-11-16 04:06:45

End at: 2017-11-16 04:07:15

Below is generated by plot.py at 2017-11-16 05:36:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.90 Mbit/s

95th percentile per-packet one-way delay: 53.758 ms

Loss rate: 0.02%

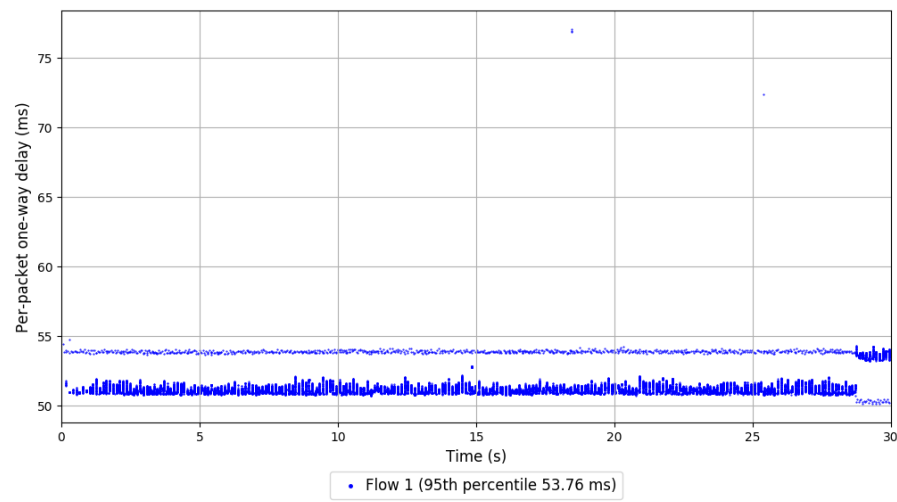
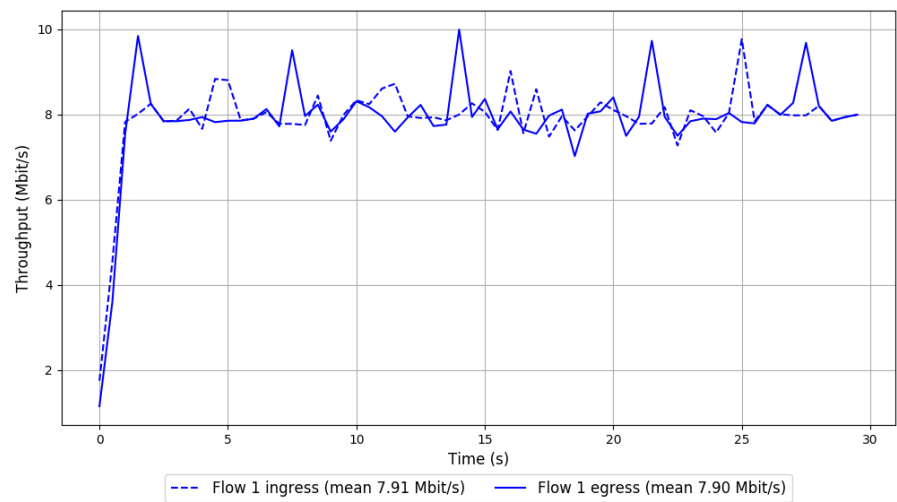
-- Flow 1:

Average throughput: 7.90 Mbit/s

95th percentile per-packet one-way delay: 53.758 ms

Loss rate: 0.02%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2017-11-16 04:16:36

End at: 2017-11-16 04:17:06

Below is generated by plot.py at 2017-11-16 05:36:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.78 Mbit/s

95th percentile per-packet one-way delay: 54.415 ms

Loss rate: 0.12%

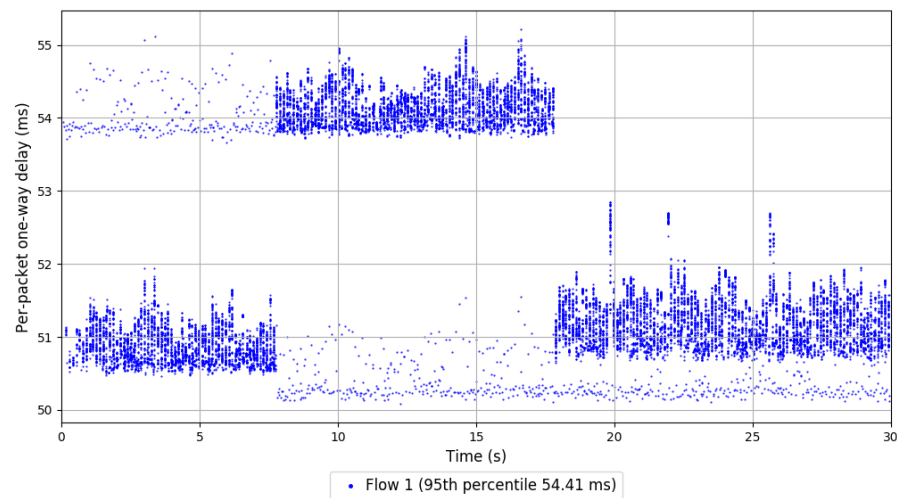
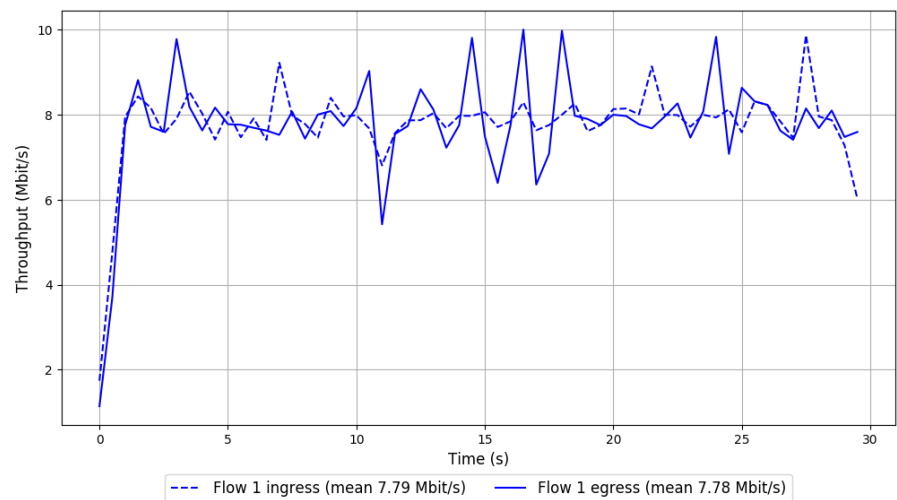
-- Flow 1:

Average throughput: 7.78 Mbit/s

95th percentile per-packet one-way delay: 54.415 ms

Loss rate: 0.12%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2017-11-16 04:26:59

End at: 2017-11-16 04:27:29

Below is generated by plot.py at 2017-11-16 05:36:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.88 Mbit/s

95th percentile per-packet one-way delay: 53.917 ms

Loss rate: 0.02%

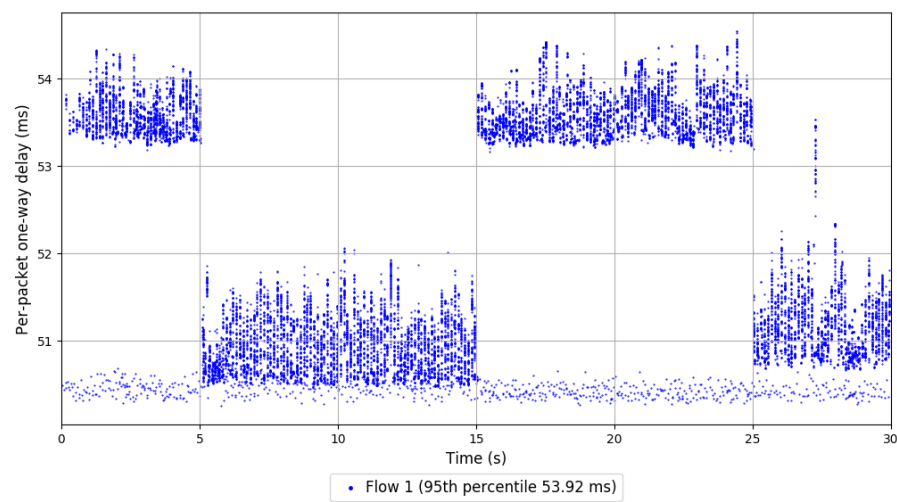
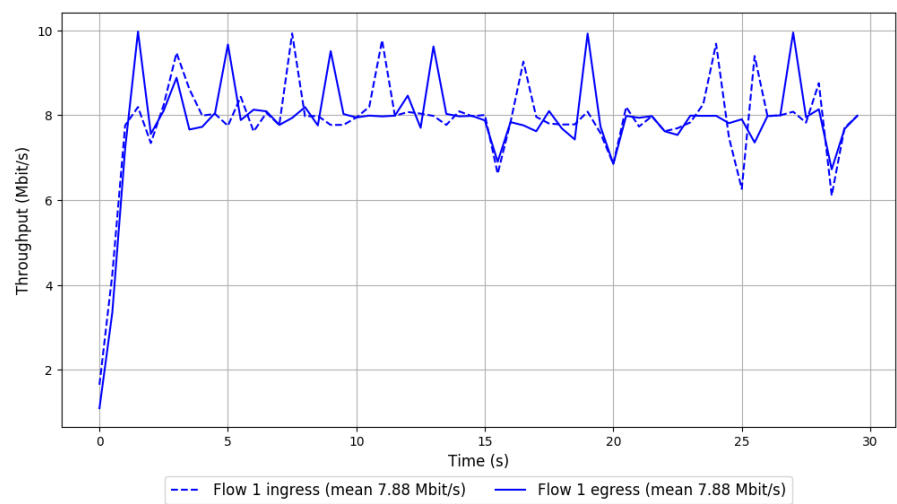
-- Flow 1:

Average throughput: 7.88 Mbit/s

95th percentile per-packet one-way delay: 53.917 ms

Loss rate: 0.02%

Run 10: Report of Sprout — Data Link

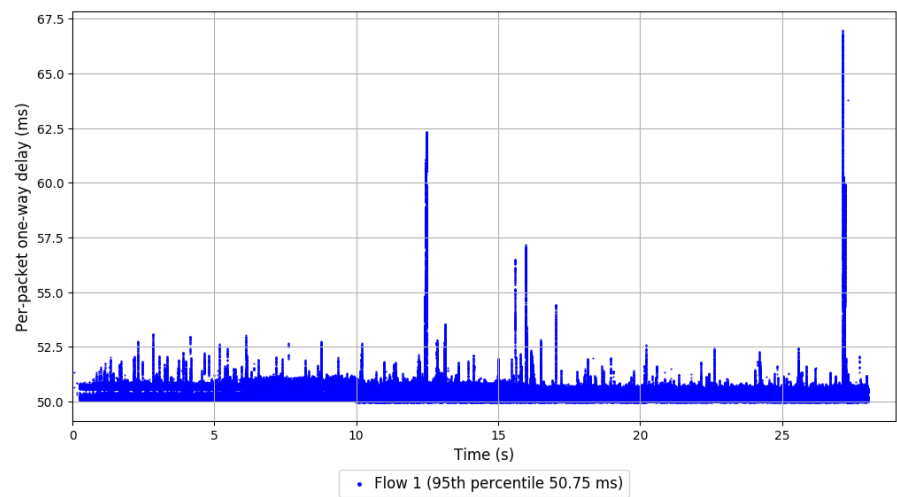
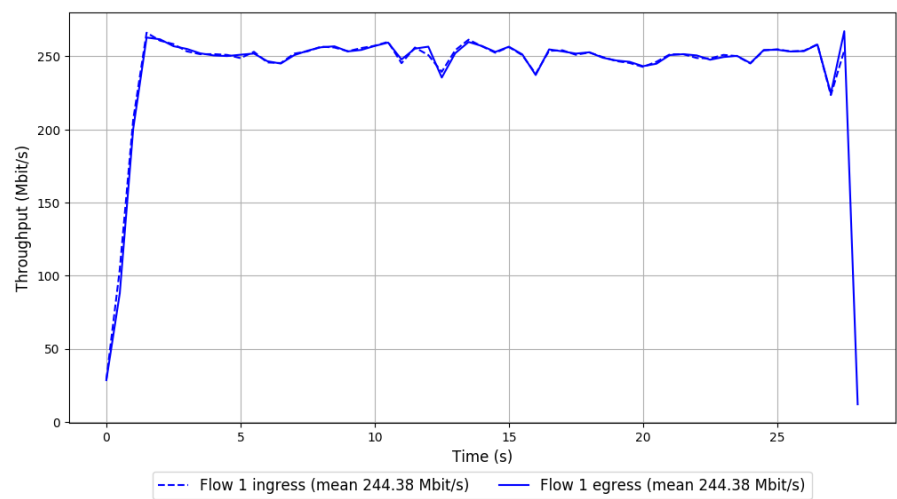


```
Run 1: Statistics of TaoVA-100x

Start at: 2017-11-16 02:58:32
End at: 2017-11-16 02:59:02

# Below is generated by plot.py at 2017-11-16 05:40:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 244.38 Mbit/s
95th percentile per-packet one-way delay: 50.746 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 244.38 Mbit/s
95th percentile per-packet one-way delay: 50.746 ms
Loss rate: 0.00%
```

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

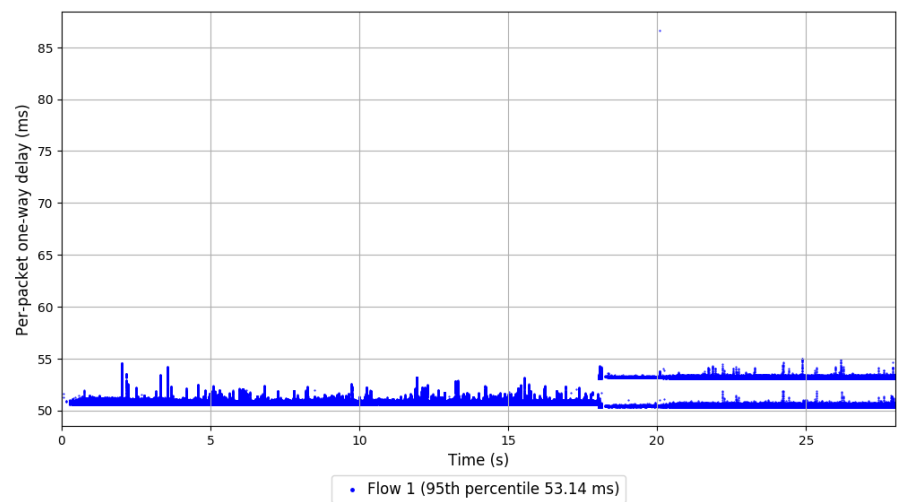
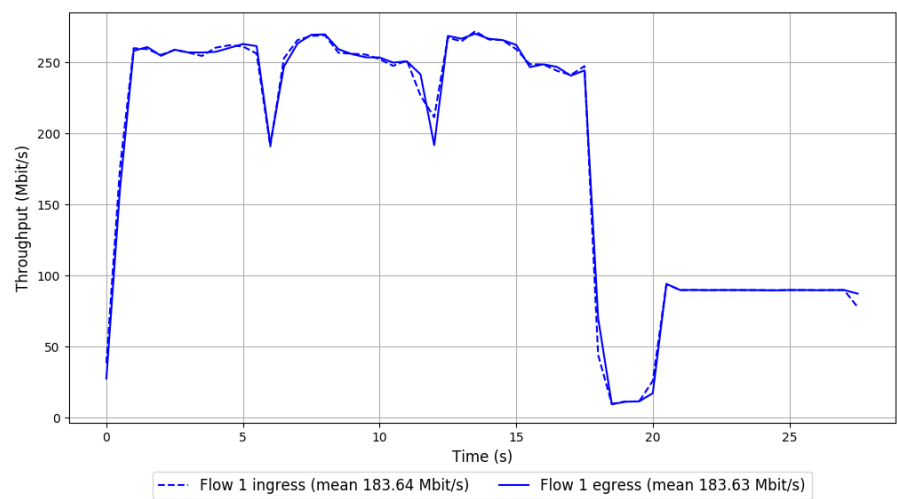


```
Run 2: Statistics of TaoVA-100x

Start at: 2017-11-16 03:09:14
End at: 2017-11-16 03:09:44

# Below is generated by plot.py at 2017-11-16 05:40:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 183.63 Mbit/s
95th percentile per-packet one-way delay: 53.137 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 183.63 Mbit/s
95th percentile per-packet one-way delay: 53.137 ms
Loss rate: 0.00%
```

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



Run 3: Statistics of TaoVA-100x

Start at: 2017-11-16 03:19:40

End at: 2017-11-16 03:20:10

Below is generated by plot.py at 2017-11-16 05:41:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 228.75 Mbit/s

95th percentile per-packet one-way delay: 53.751 ms

Loss rate: 0.01%

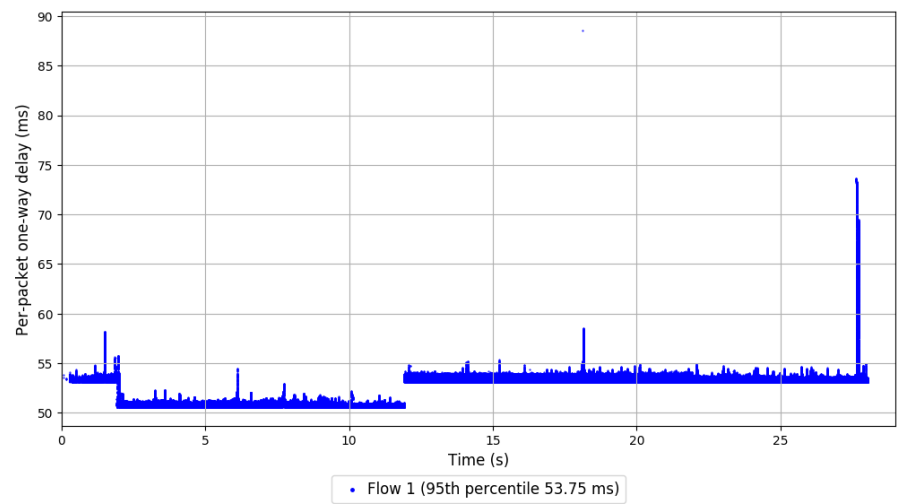
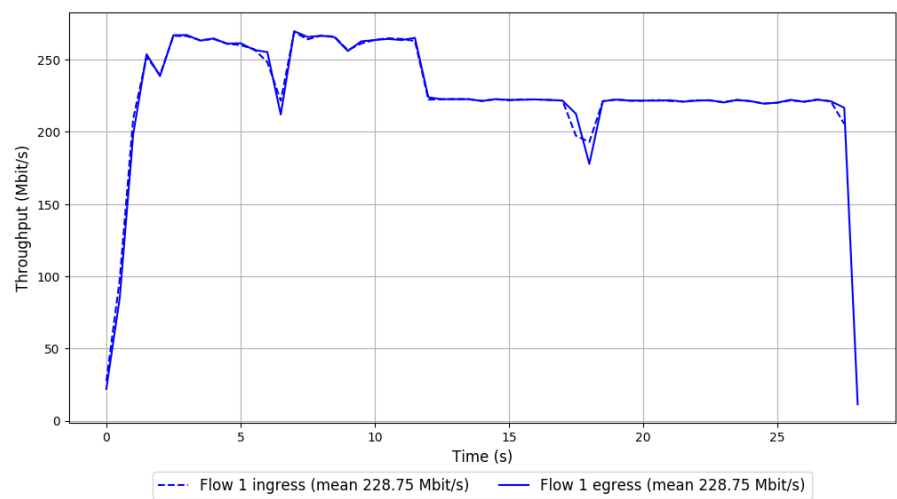
-- Flow 1:

Average throughput: 228.75 Mbit/s

95th percentile per-packet one-way delay: 53.751 ms

Loss rate: 0.01%

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



Run 4: Statistics of TaoVA-100x

Start at: 2017-11-16 03:29:48

End at: 2017-11-16 03:30:18

Below is generated by plot.py at 2017-11-16 05:41:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 185.18 Mbit/s

95th percentile per-packet one-way delay: 53.758 ms

Loss rate: 0.00%

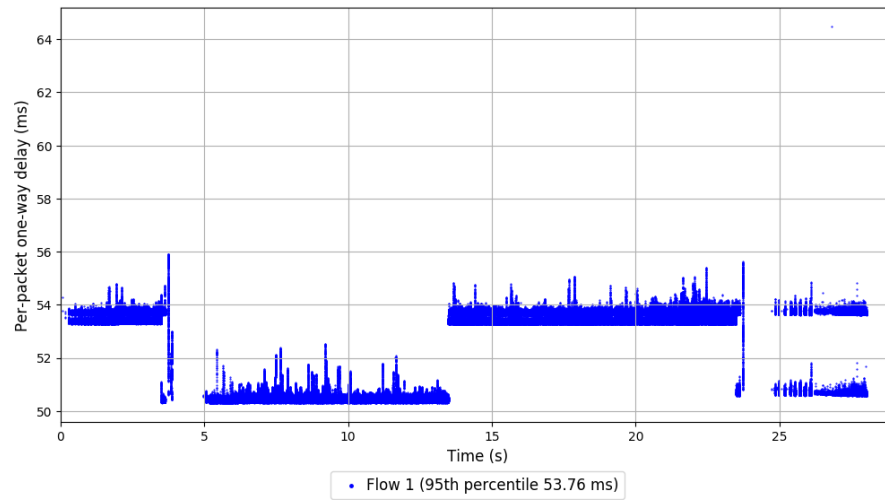
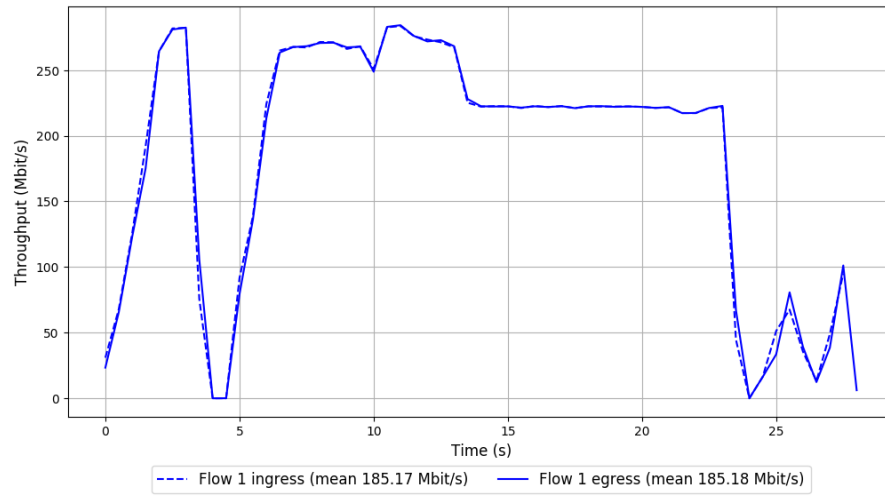
-- Flow 1:

Average throughput: 185.18 Mbit/s

95th percentile per-packet one-way delay: 53.758 ms

Loss rate: 0.00%

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



Run 5: Statistics of TaoVA-100x

Start at: 2017-11-16 03:40:14

End at: 2017-11-16 03:40:44

Below is generated by plot.py at 2017-11-16 05:41:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.98 Mbit/s

95th percentile per-packet one-way delay: 53.688 ms

Loss rate: 0.00%

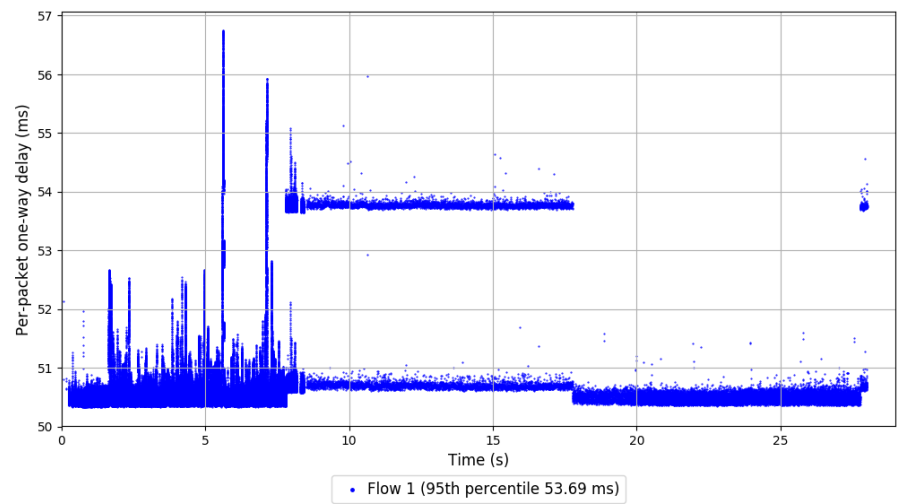
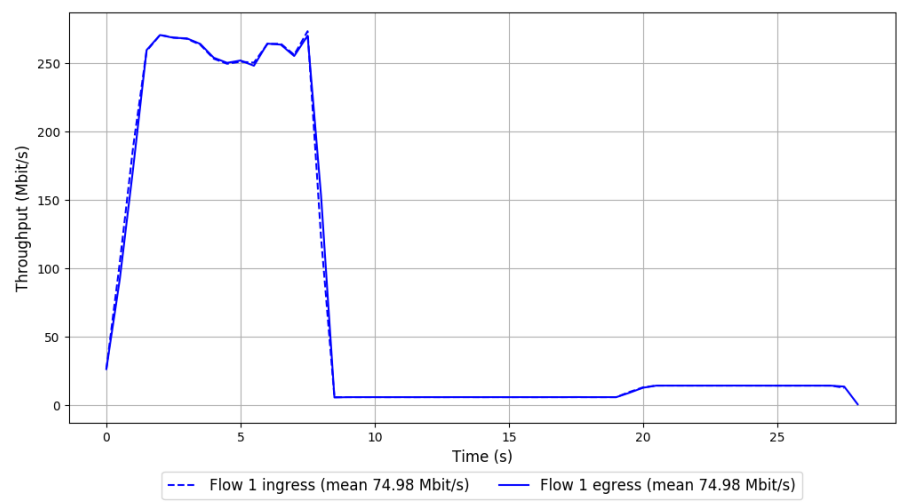
-- Flow 1:

Average throughput: 74.98 Mbit/s

95th percentile per-packet one-way delay: 53.688 ms

Loss rate: 0.00%

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



Run 6: Statistics of TaoVA-100x

Start at: 2017-11-16 03:50:30

End at: 2017-11-16 03:51:00

Below is generated by plot.py at 2017-11-16 05:41:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 23.18 Mbit/s

95th percentile per-packet one-way delay: 53.820 ms

Loss rate: 0.00%

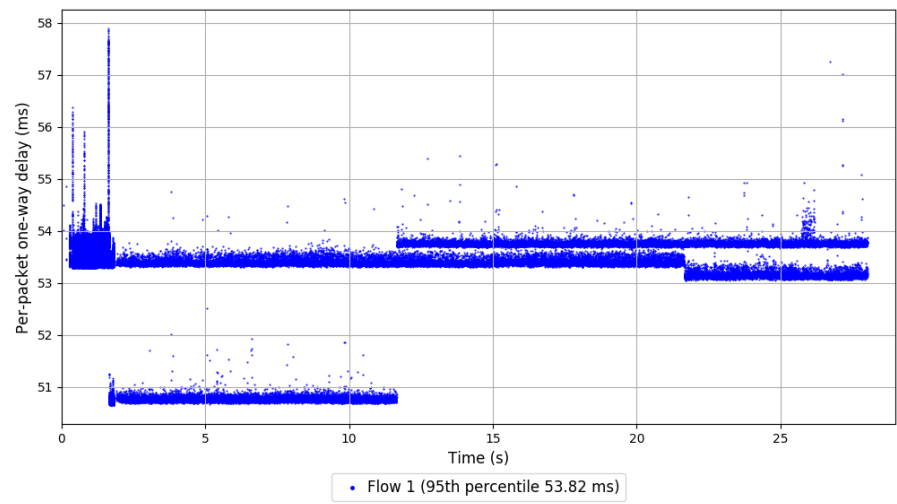
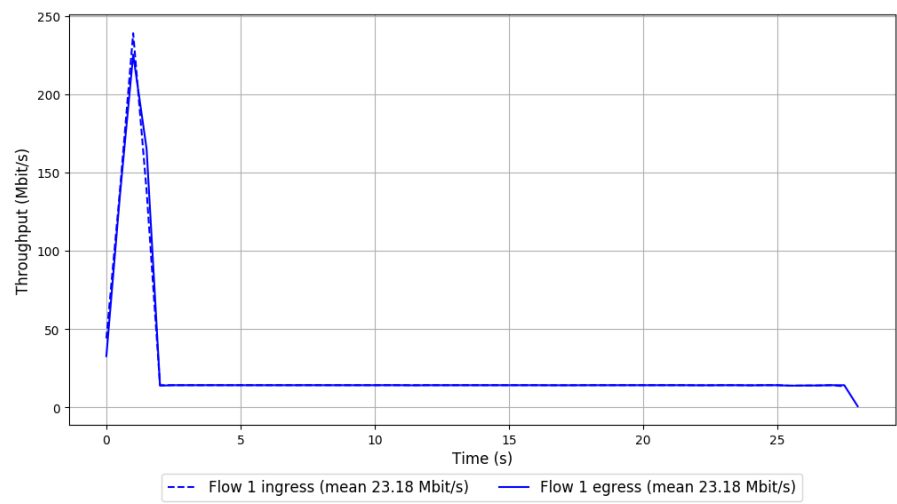
-- Flow 1:

Average throughput: 23.18 Mbit/s

95th percentile per-packet one-way delay: 53.820 ms

Loss rate: 0.00%

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



Run 7: Statistics of TaoVA-100x

Start at: 2017-11-16 04:00:24

End at: 2017-11-16 04:00:54

Below is generated by plot.py at 2017-11-16 05:41:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 135.23 Mbit/s

95th percentile per-packet one-way delay: 53.661 ms

Loss rate: 0.00%

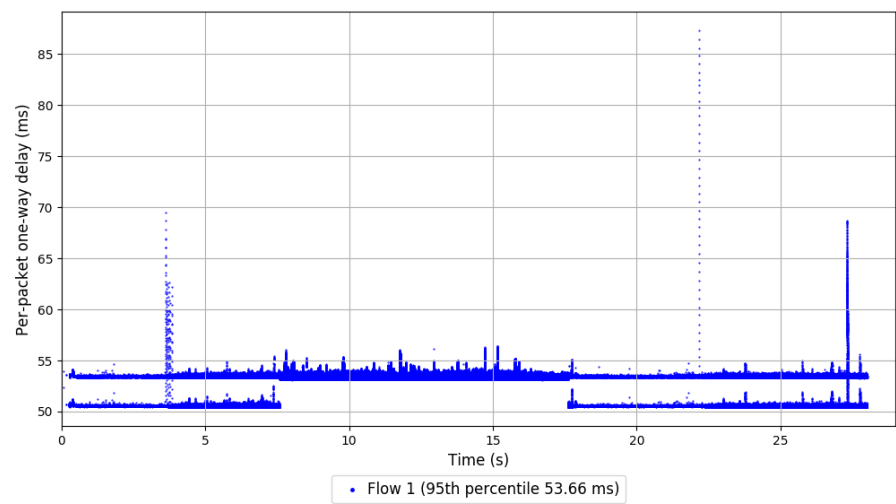
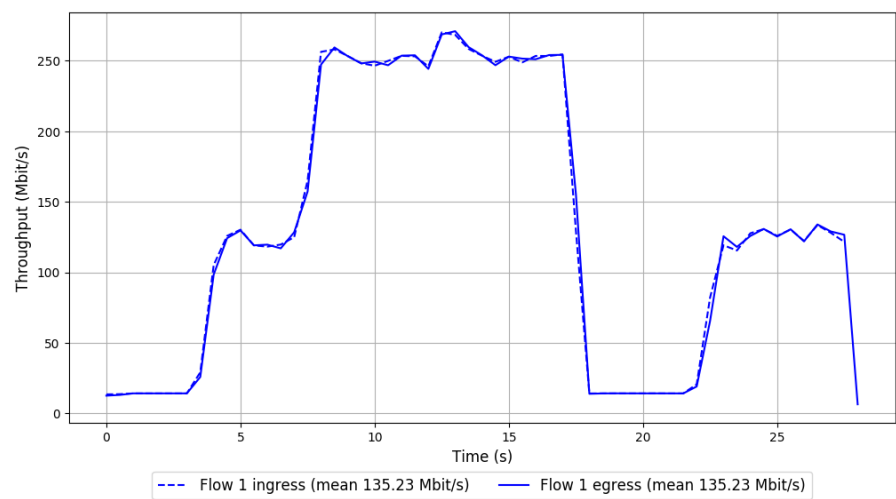
-- Flow 1:

Average throughput: 135.23 Mbit/s

95th percentile per-packet one-way delay: 53.661 ms

Loss rate: 0.00%

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



Run 8: Statistics of TaoVA-100x

Start at: 2017-11-16 04:10:15

End at: 2017-11-16 04:10:45

Below is generated by plot.py at 2017-11-16 05:41:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 18.43 Mbit/s

95th percentile per-packet one-way delay: 53.858 ms

Loss rate: 0.00%

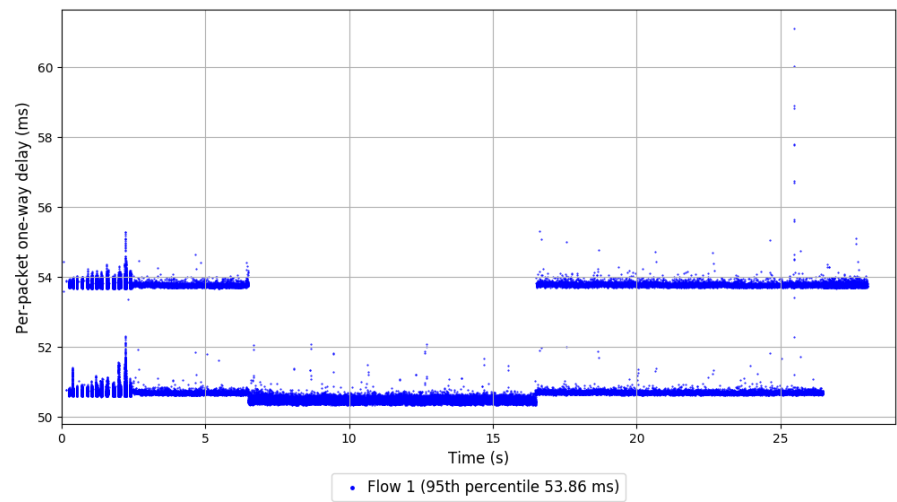
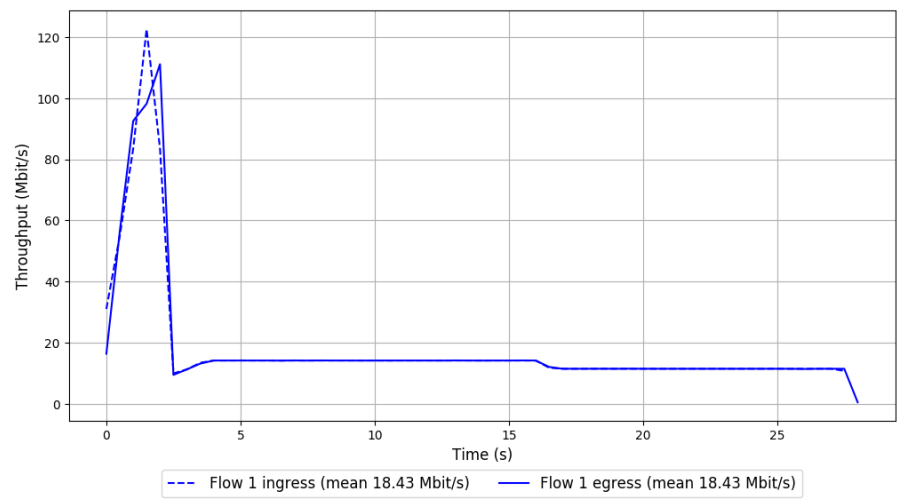
-- Flow 1:

Average throughput: 18.43 Mbit/s

95th percentile per-packet one-way delay: 53.858 ms

Loss rate: 0.00%

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



Run 9: Statistics of TaoVA-100x

Start at: 2017-11-16 04:20:31

End at: 2017-11-16 04:21:01

Below is generated by plot.py at 2017-11-16 05:41:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 112.45 Mbit/s

95th percentile per-packet one-way delay: 50.822 ms

Loss rate: 0.00%

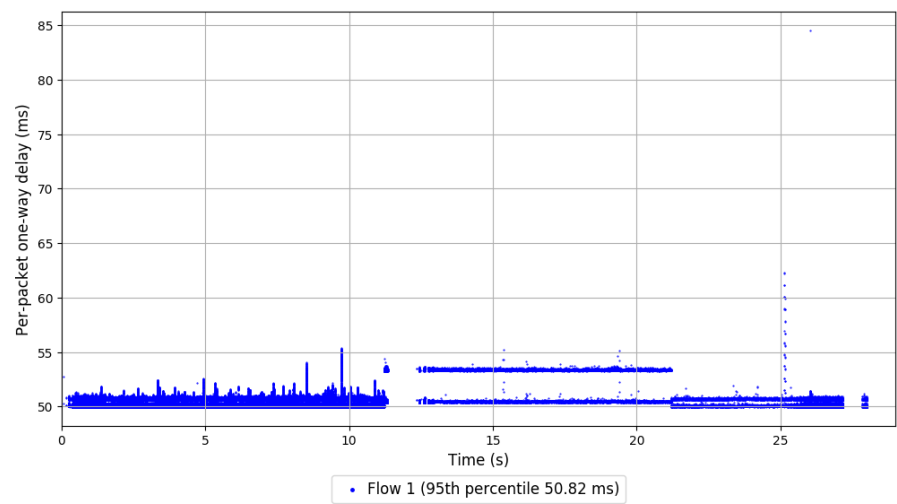
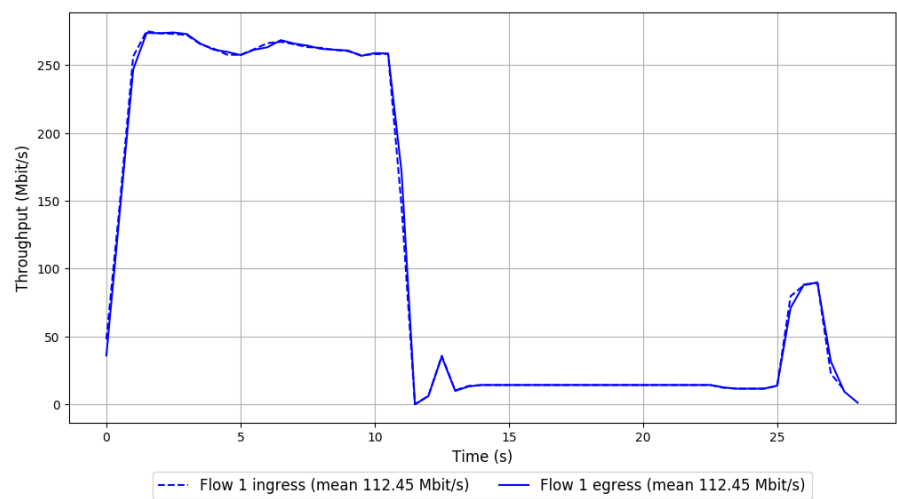
-- Flow 1:

Average throughput: 112.45 Mbit/s

95th percentile per-packet one-way delay: 50.822 ms

Loss rate: 0.00%

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

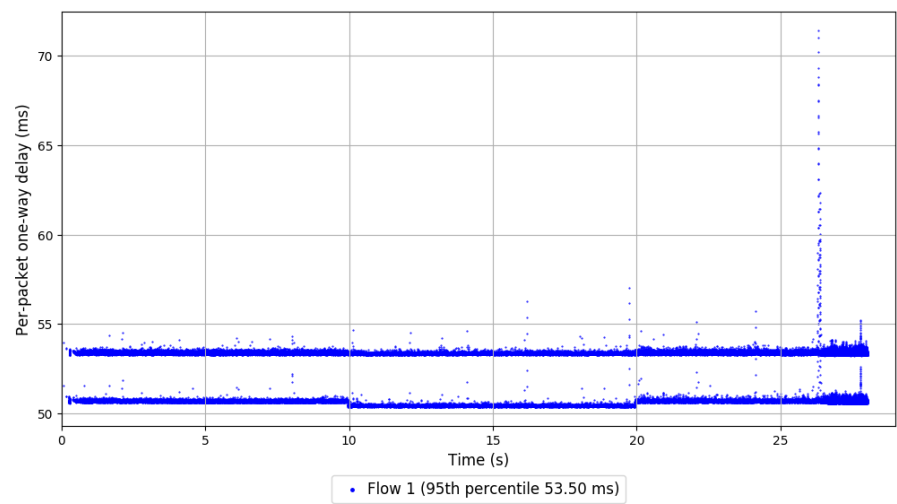
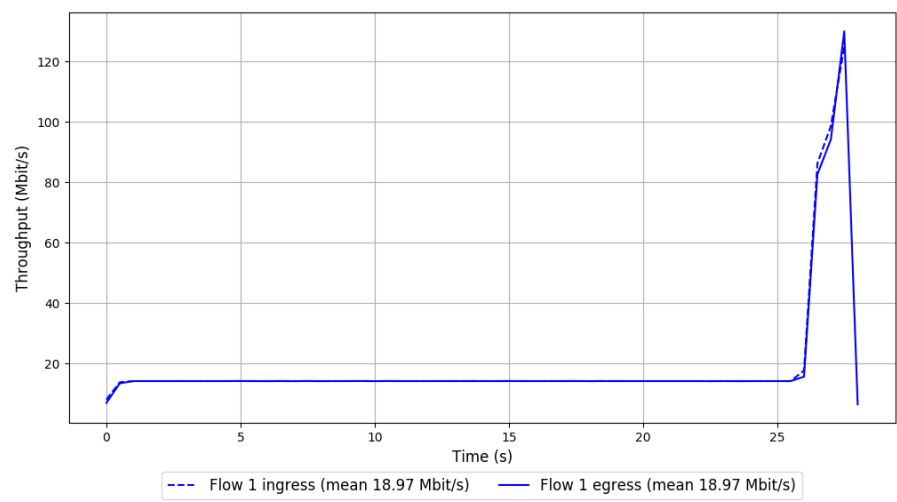


```
Run 10: Statistics of TaoVA-100x

Start at: 2017-11-16 04:30:32
End at: 2017-11-16 04:31:02

# Below is generated by plot.py at 2017-11-16 05:41:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 18.97 Mbit/s
95th percentile per-packet one-way delay: 53.500 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 18.97 Mbit/s
95th percentile per-packet one-way delay: 53.500 ms
Loss rate: 0.00%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2017-11-16 03:02:19

End at: 2017-11-16 03:02:49

Below is generated by plot.py at 2017-11-16 05:41:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 48.08 Mbit/s

95th percentile per-packet one-way delay: 54.535 ms

Loss rate: 0.00%

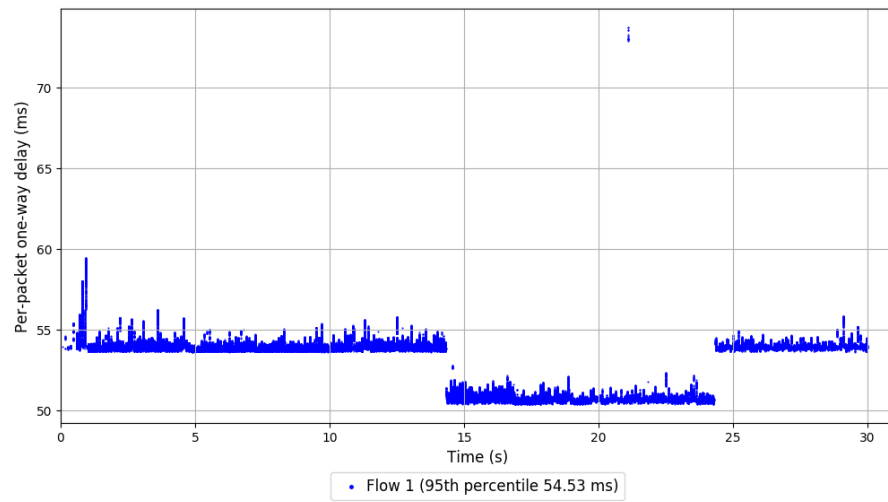
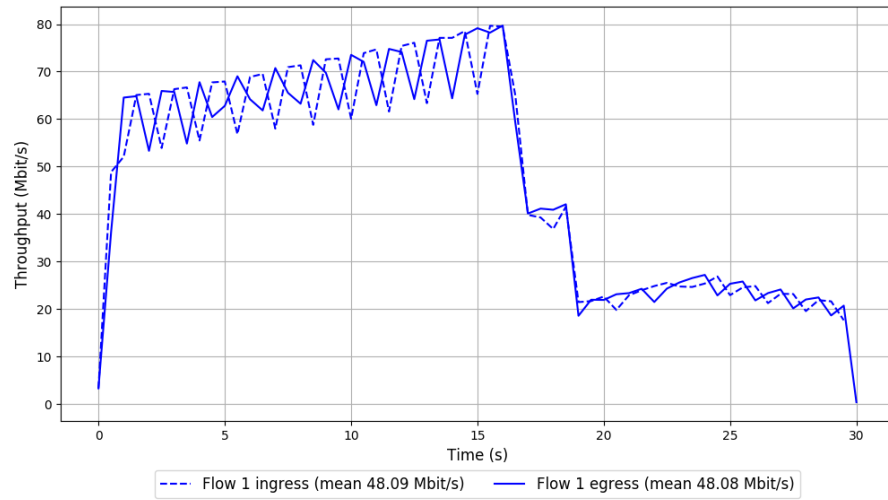
-- Flow 1:

Average throughput: 48.08 Mbit/s

95th percentile per-packet one-way delay: 54.535 ms

Loss rate: 0.00%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2017-11-16 03:12:52

End at: 2017-11-16 03:13:22

Below is generated by plot.py at 2017-11-16 05:41:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 55.57 Mbit/s

95th percentile per-packet one-way delay: 53.667 ms

Loss rate: 0.00%

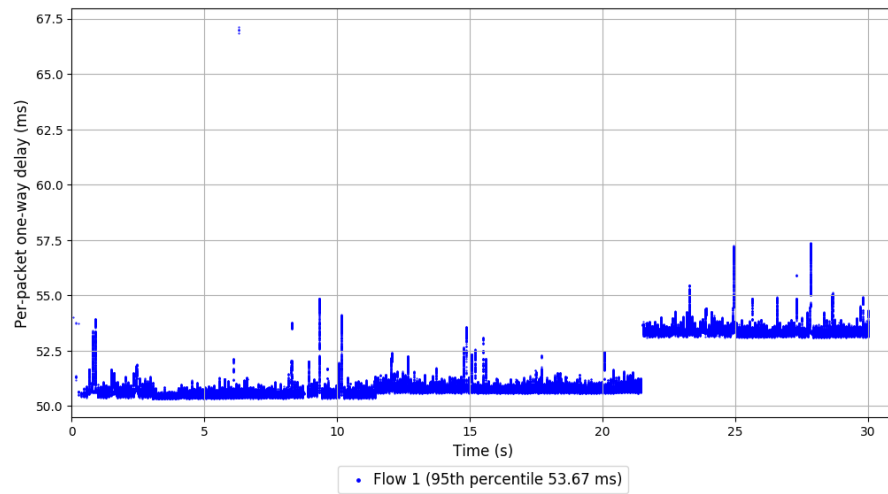
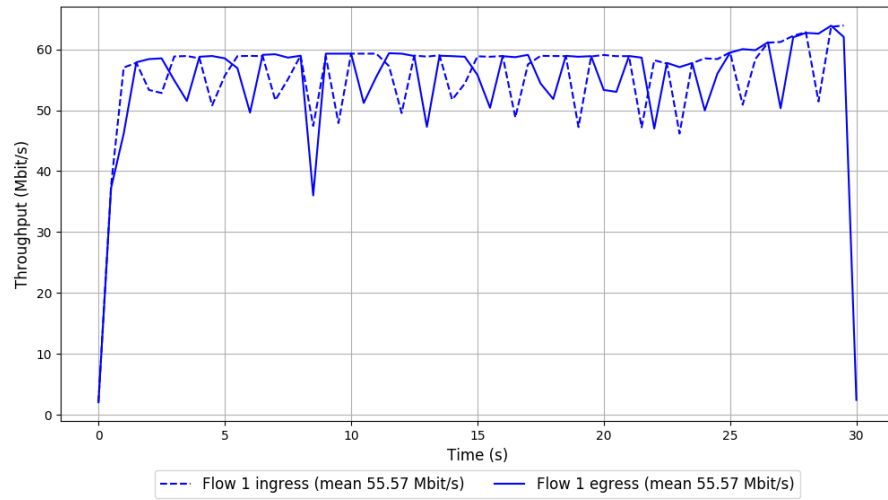
-- Flow 1:

Average throughput: 55.57 Mbit/s

95th percentile per-packet one-way delay: 53.667 ms

Loss rate: 0.00%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2017-11-16 03:23:23

End at: 2017-11-16 03:23:53

Below is generated by plot.py at 2017-11-16 05:41:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 39.39 Mbit/s

95th percentile per-packet one-way delay: 55.913 ms

Loss rate: 0.01%

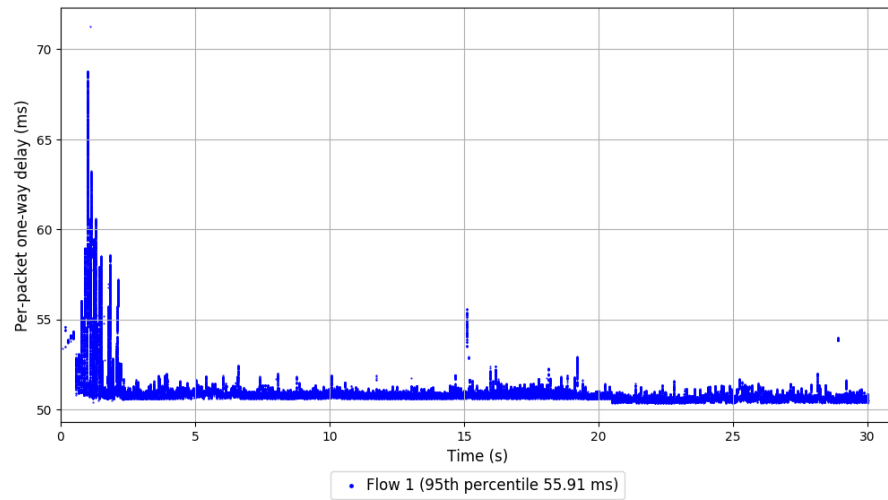
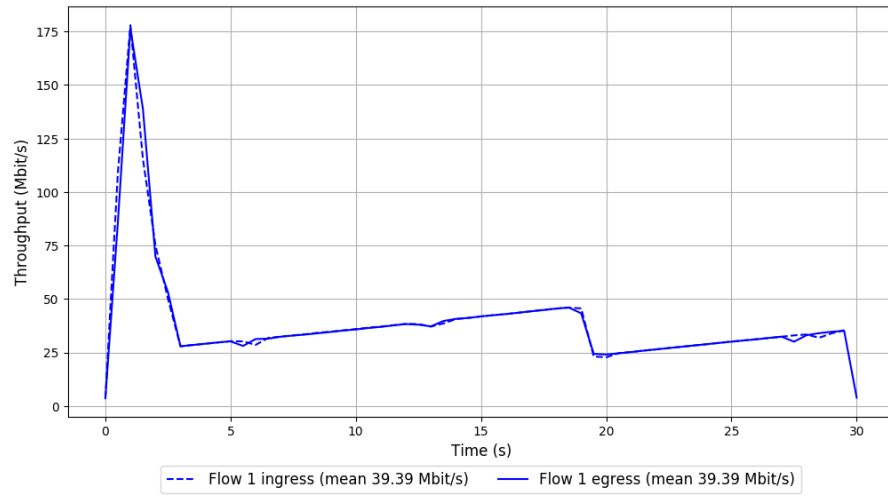
-- Flow 1:

Average throughput: 39.39 Mbit/s

95th percentile per-packet one-way delay: 55.913 ms

Loss rate: 0.01%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2017-11-16 03:33:25

End at: 2017-11-16 03:33:55

Below is generated by plot.py at 2017-11-16 05:41:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 53.81 Mbit/s

95th percentile per-packet one-way delay: 51.413 ms

Loss rate: 0.00%

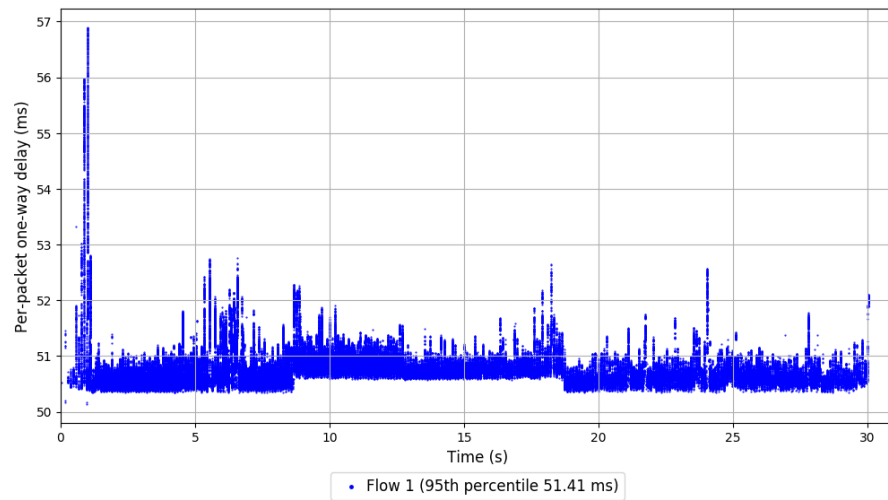
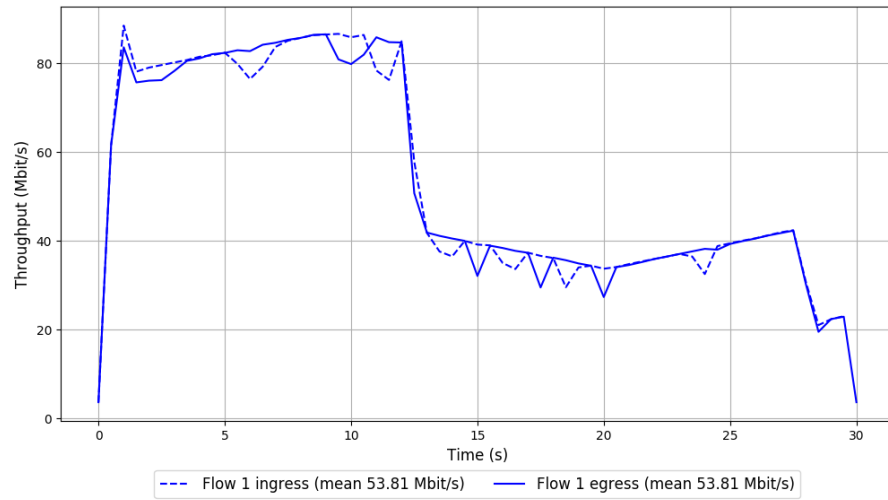
-- Flow 1:

Average throughput: 53.81 Mbit/s

95th percentile per-packet one-way delay: 51.413 ms

Loss rate: 0.00%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2017-11-16 03:43:41

End at: 2017-11-16 03:44:11

Below is generated by plot.py at 2017-11-16 05:41:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 49.75 Mbit/s

95th percentile per-packet one-way delay: 51.696 ms

Loss rate: 0.00%

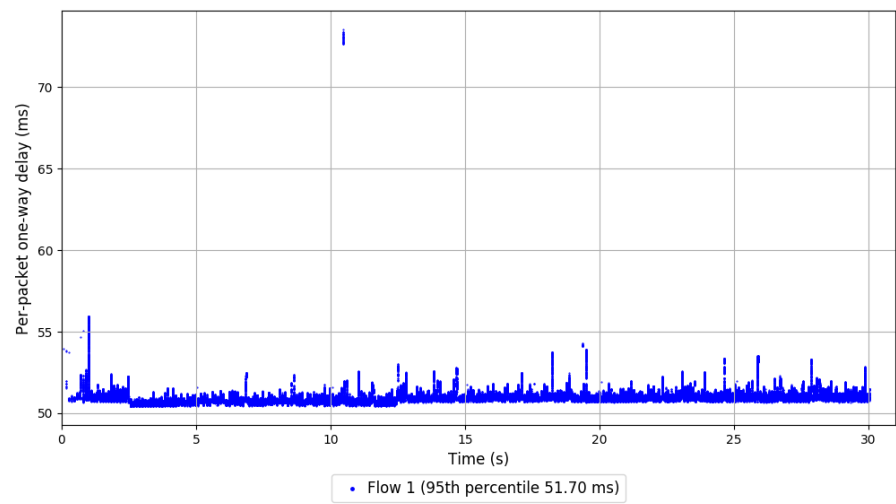
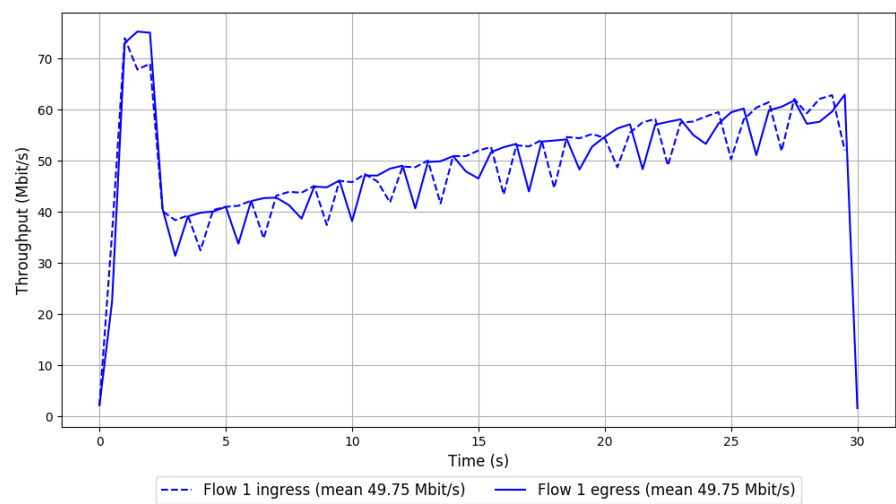
-- Flow 1:

Average throughput: 49.75 Mbit/s

95th percentile per-packet one-way delay: 51.696 ms

Loss rate: 0.00%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2017-11-16 03:53:55

End at: 2017-11-16 03:54:25

Below is generated by plot.py at 2017-11-16 05:41:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 66.17 Mbit/s

95th percentile per-packet one-way delay: 54.067 ms

Loss rate: 0.44%

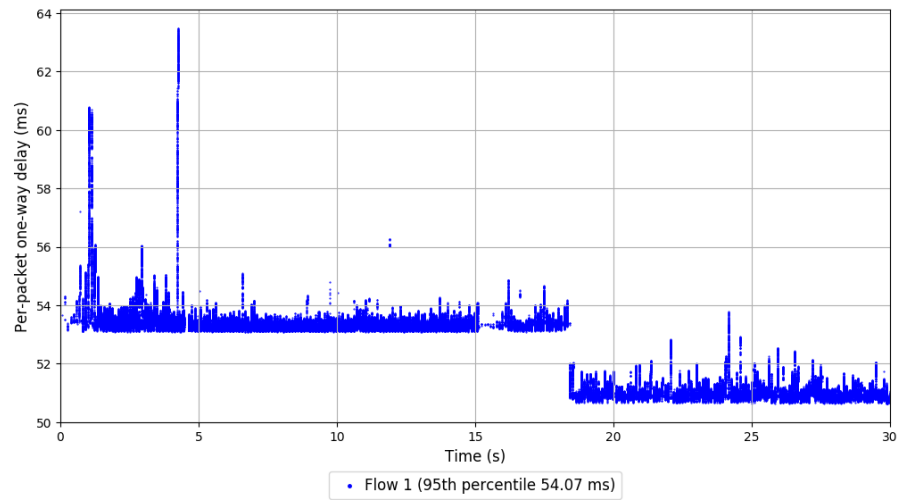
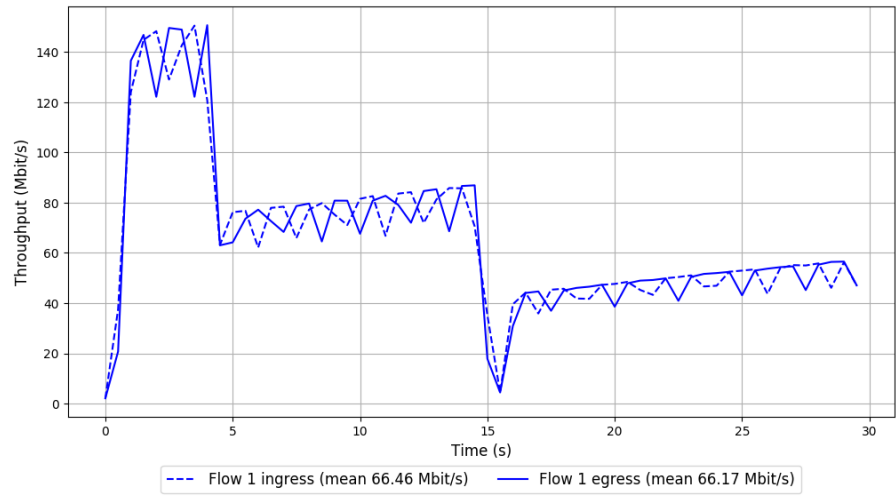
-- Flow 1:

Average throughput: 66.17 Mbit/s

95th percentile per-packet one-way delay: 54.067 ms

Loss rate: 0.44%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2017-11-16 04:03:54

End at: 2017-11-16 04:04:24

Below is generated by plot.py at 2017-11-16 05:41:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.37 Mbit/s

95th percentile per-packet one-way delay: 53.835 ms

Loss rate: 0.01%

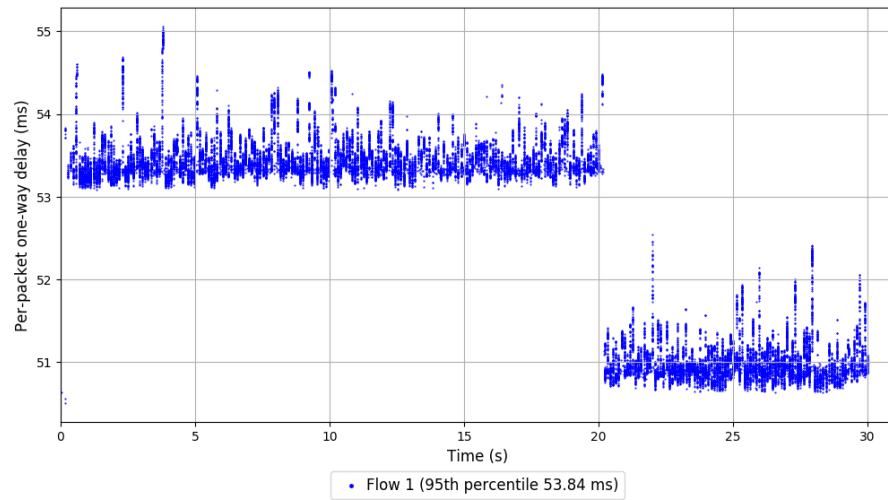
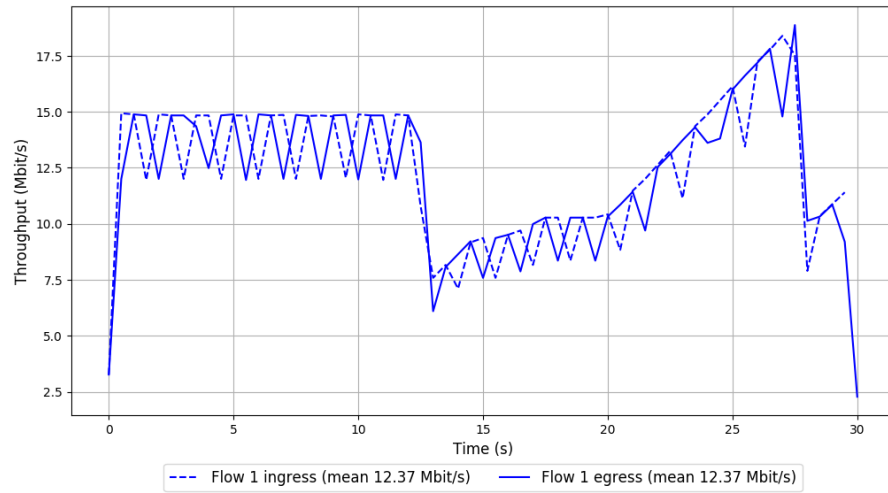
-- Flow 1:

Average throughput: 12.37 Mbit/s

95th percentile per-packet one-way delay: 53.835 ms

Loss rate: 0.01%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2017-11-16 04:13:39

End at: 2017-11-16 04:14:09

Below is generated by plot.py at 2017-11-16 05:41:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.15 Mbit/s

95th percentile per-packet one-way delay: 54.605 ms

Loss rate: 0.01%

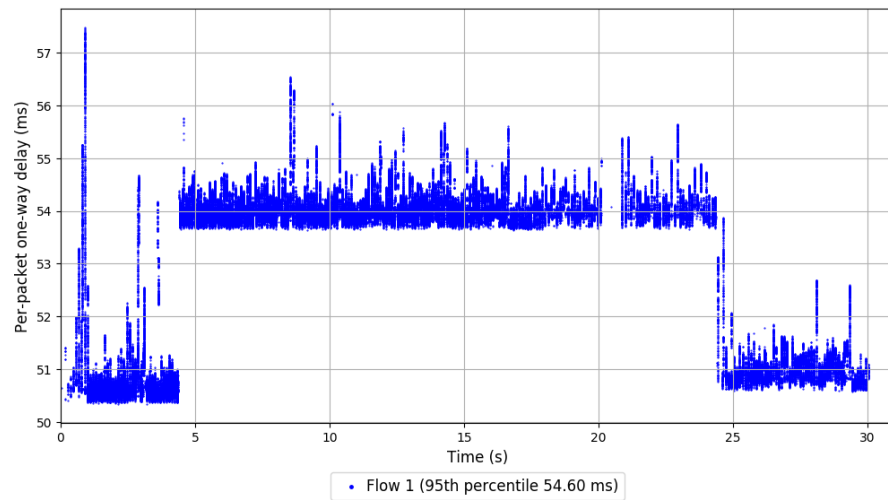
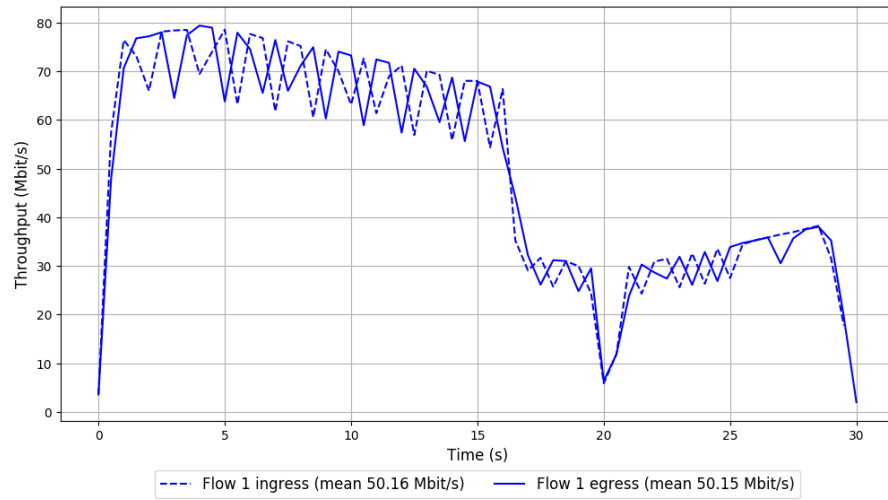
-- Flow 1:

Average throughput: 50.15 Mbit/s

95th percentile per-packet one-way delay: 54.605 ms

Loss rate: 0.01%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2017-11-16 04:24:04

End at: 2017-11-16 04:24:34

Below is generated by plot.py at 2017-11-16 05:41:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 10.29 Mbit/s

95th percentile per-packet one-way delay: 53.680 ms

Loss rate: 0.04%

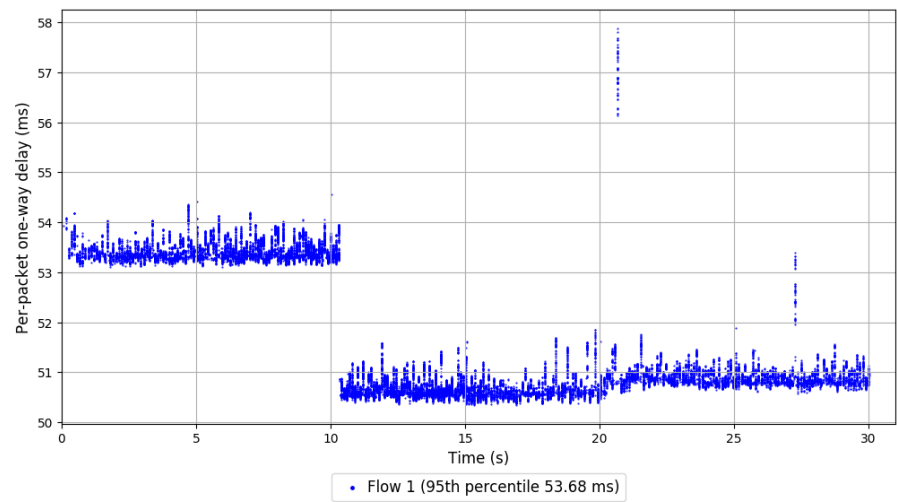
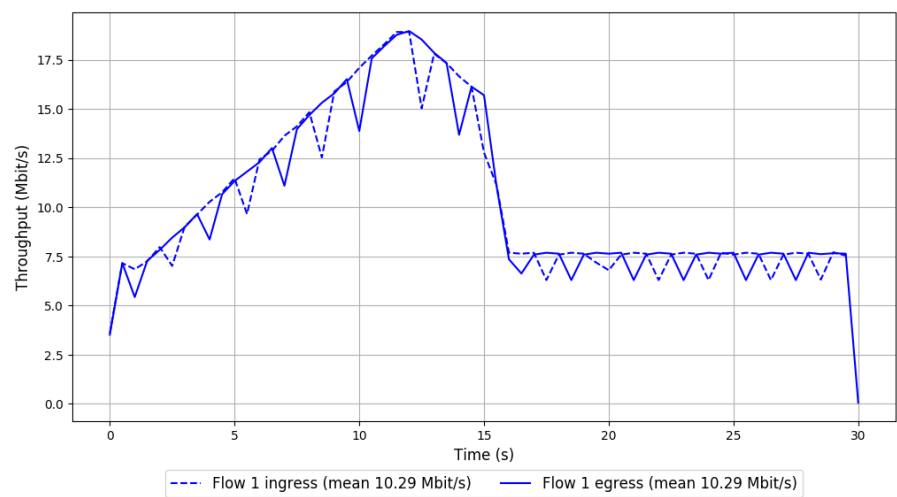
-- Flow 1:

Average throughput: 10.29 Mbit/s

95th percentile per-packet one-way delay: 53.680 ms

Loss rate: 0.04%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2017-11-16 04:33:56

End at: 2017-11-16 04:34:26

Below is generated by plot.py at 2017-11-16 05:41:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 31.36 Mbit/s

95th percentile per-packet one-way delay: 53.712 ms

Loss rate: 0.01%

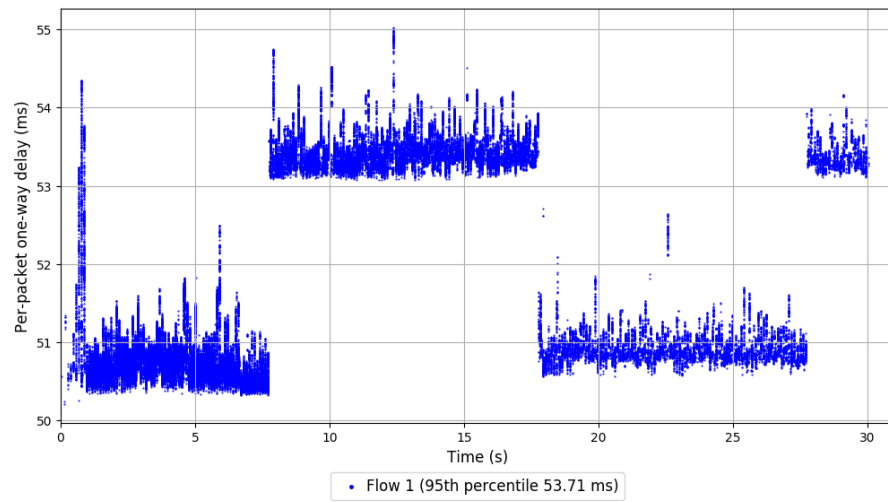
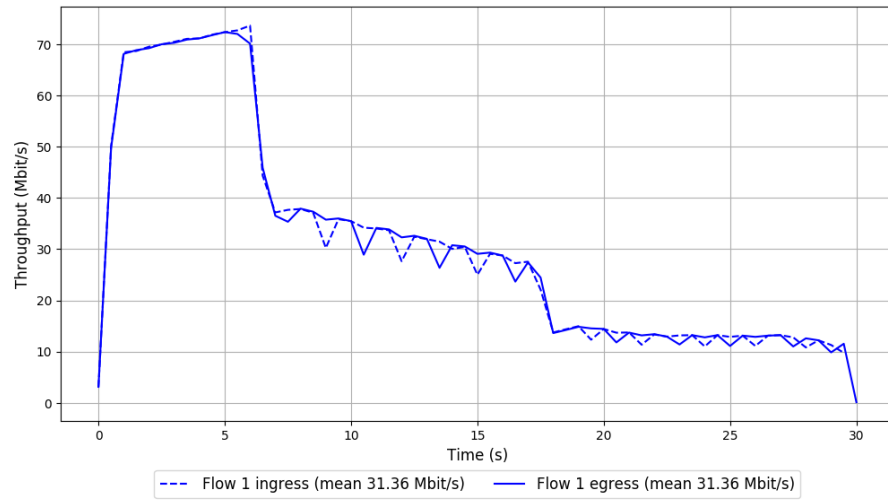
-- Flow 1:

Average throughput: 31.36 Mbit/s

95th percentile per-packet one-way delay: 53.712 ms

Loss rate: 0.01%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2017-11-16 02:56:08

End at: 2017-11-16 02:56:38

Below is generated by plot.py at 2017-11-16 05:45:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 355.21 Mbit/s

95th percentile per-packet one-way delay: 181.673 ms

Loss rate: 0.36%

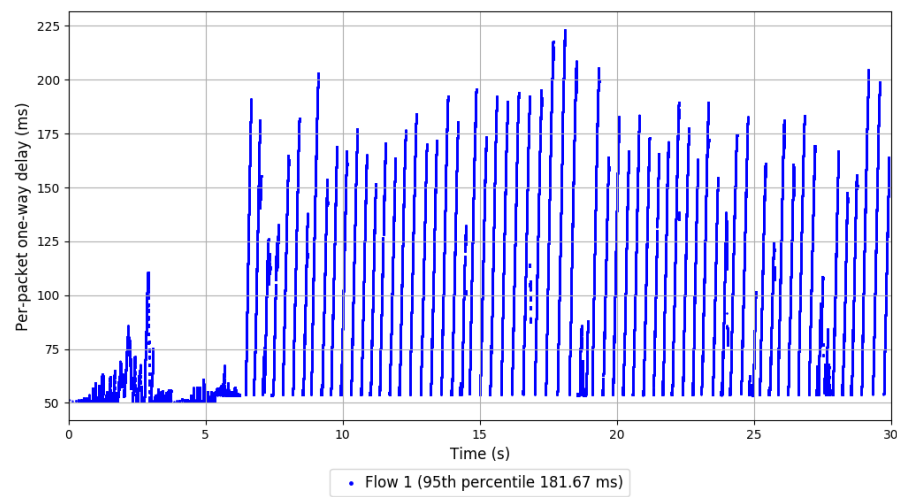
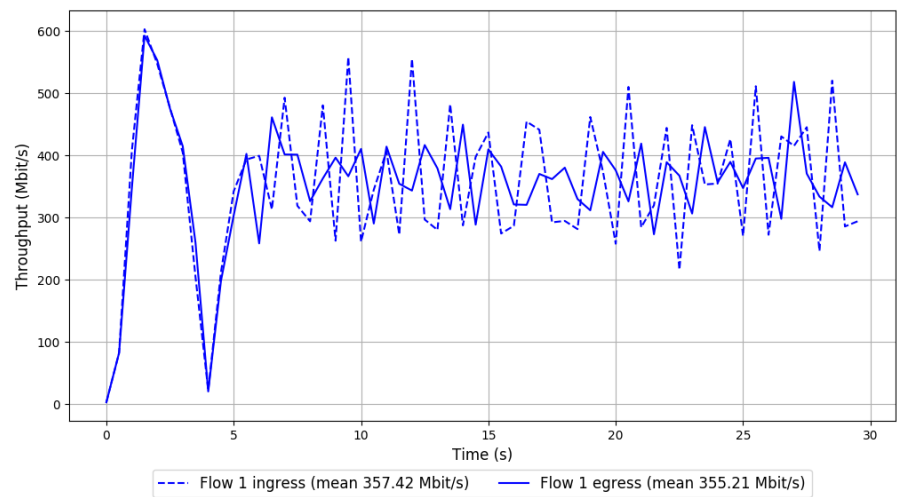
-- Flow 1:

Average throughput: 355.21 Mbit/s

95th percentile per-packet one-way delay: 181.673 ms

Loss rate: 0.36%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2017-11-16 03:06:54

End at: 2017-11-16 03:07:24

Below is generated by plot.py at 2017-11-16 05:45:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 303.90 Mbit/s

95th percentile per-packet one-way delay: 200.966 ms

Loss rate: 1.21%

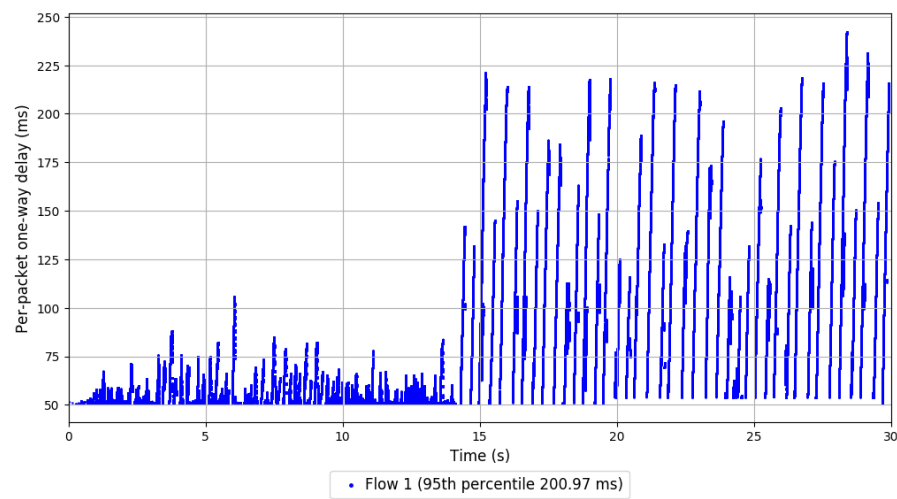
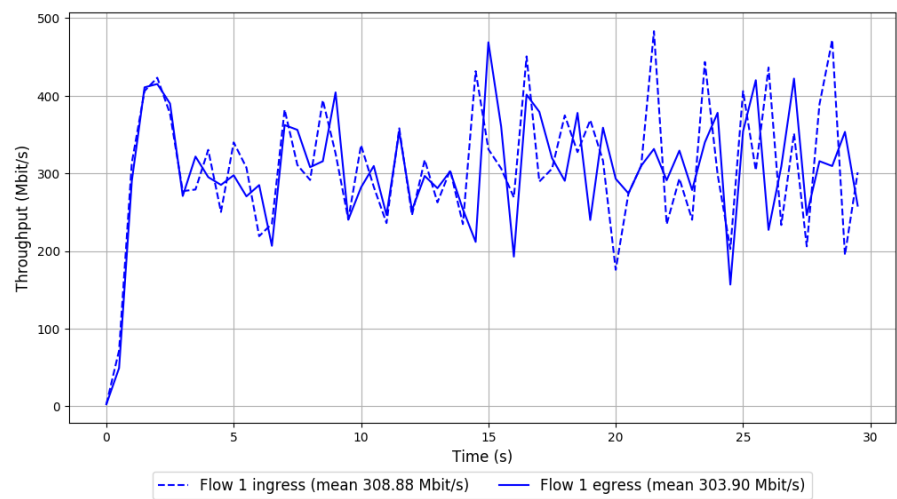
-- Flow 1:

Average throughput: 303.90 Mbit/s

95th percentile per-packet one-way delay: 200.966 ms

Loss rate: 1.21%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2017-11-16 03:17:27

End at: 2017-11-16 03:17:57

Below is generated by plot.py at 2017-11-16 05:45:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 219.22 Mbit/s

95th percentile per-packet one-way delay: 67.433 ms

Loss rate: 0.00%

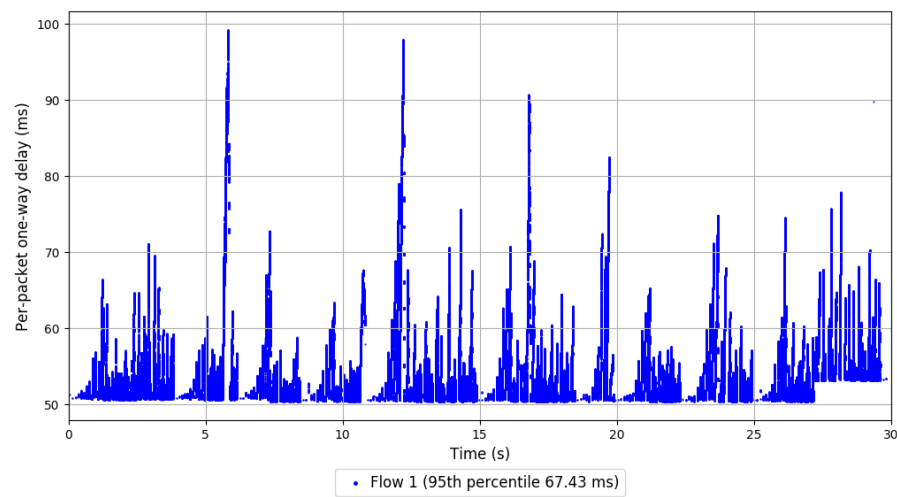
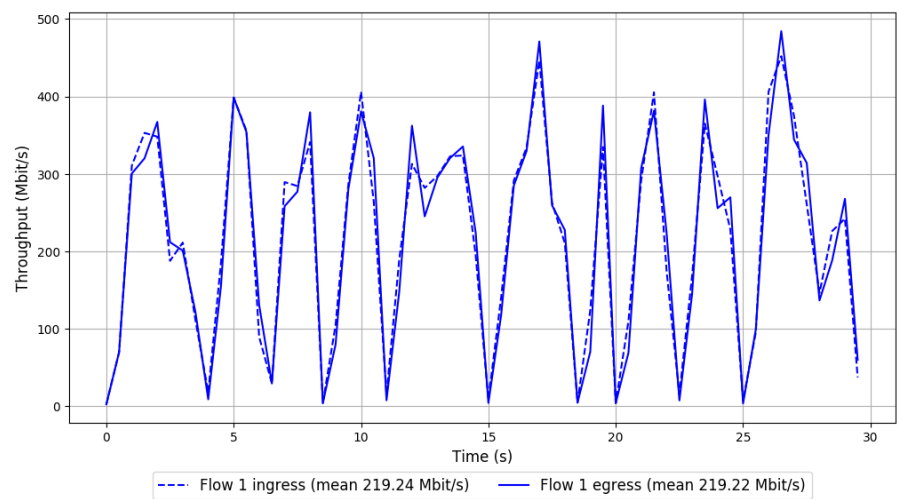
-- Flow 1:

Average throughput: 219.22 Mbit/s

95th percentile per-packet one-way delay: 67.433 ms

Loss rate: 0.00%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2017-11-16 03:27:34

End at: 2017-11-16 03:28:04

Below is generated by plot.py at 2017-11-16 05:45:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 228.53 Mbit/s

95th percentile per-packet one-way delay: 83.705 ms

Loss rate: 0.29%

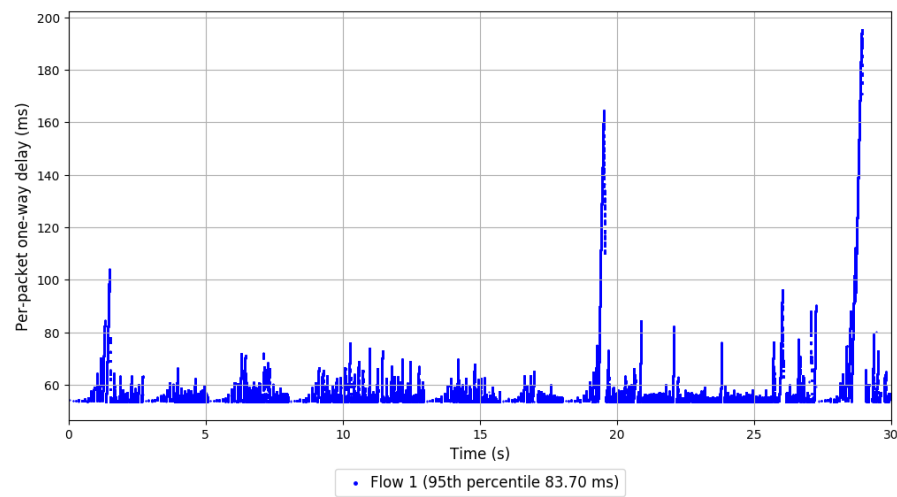
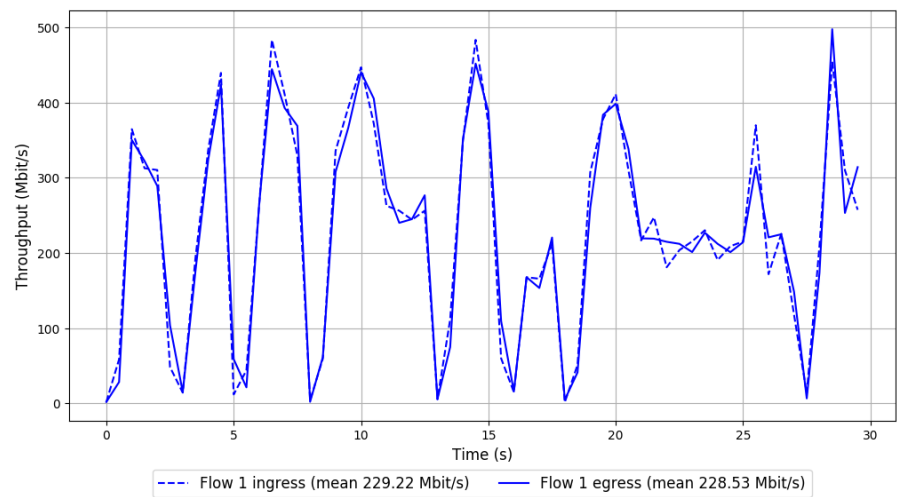
-- Flow 1:

Average throughput: 228.53 Mbit/s

95th percentile per-packet one-way delay: 83.705 ms

Loss rate: 0.29%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2017-11-16 03:37:59

End at: 2017-11-16 03:38:29

Below is generated by plot.py at 2017-11-16 05:45:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 235.10 Mbit/s

95th percentile per-packet one-way delay: 72.471 ms

Loss rate: 0.26%

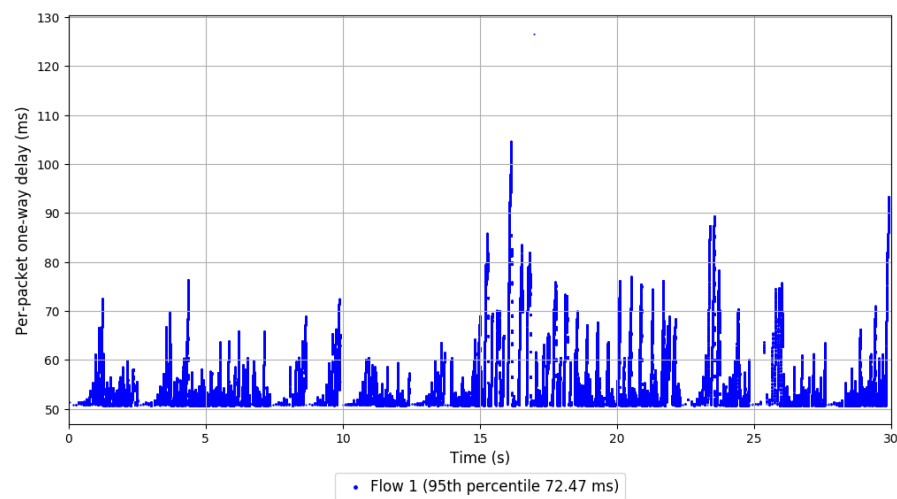
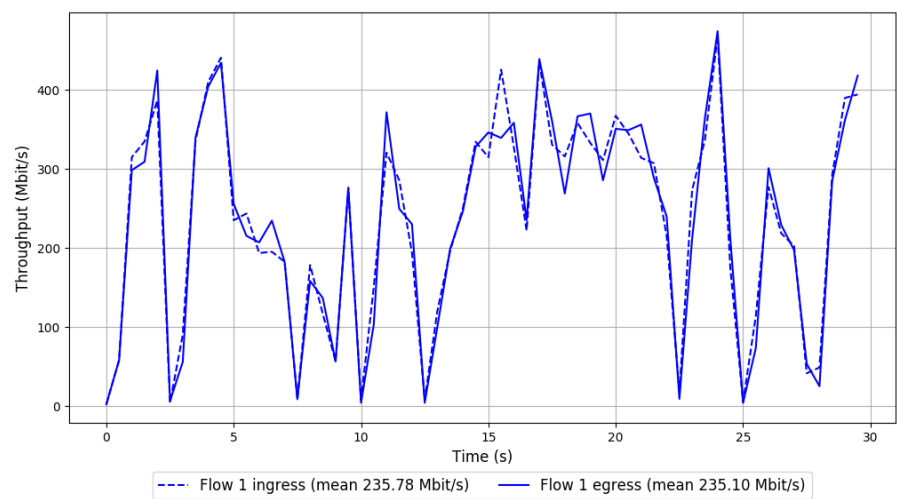
-- Flow 1:

Average throughput: 235.10 Mbit/s

95th percentile per-packet one-way delay: 72.471 ms

Loss rate: 0.26%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2017-11-16 03:48:12

End at: 2017-11-16 03:48:42

Below is generated by plot.py at 2017-11-16 05:45:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 284.16 Mbit/s

95th percentile per-packet one-way delay: 117.695 ms

Loss rate: 0.19%

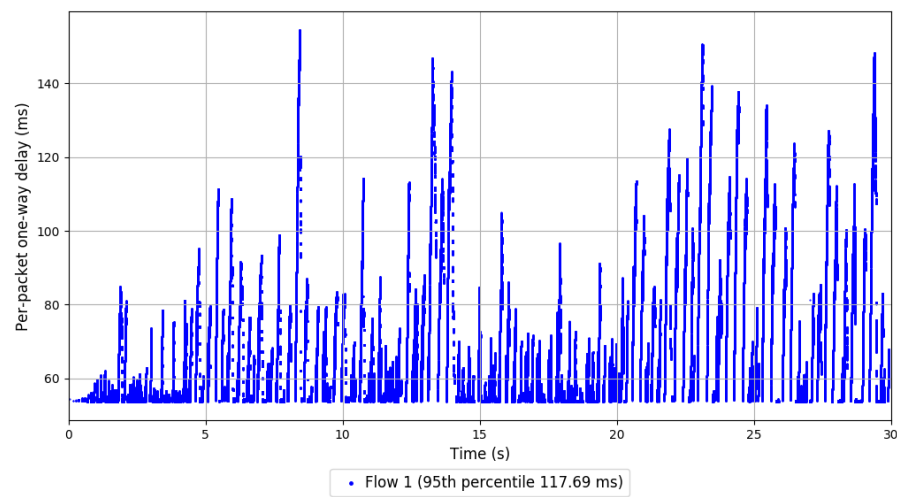
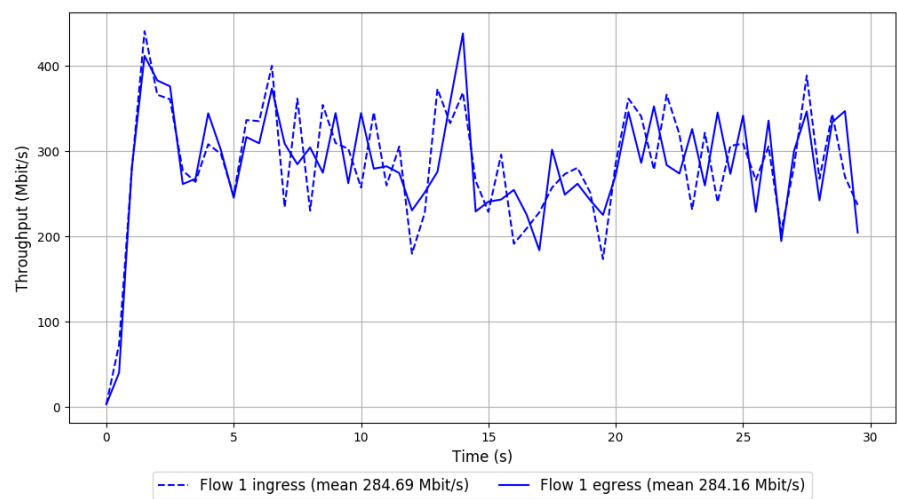
-- Flow 1:

Average throughput: 284.16 Mbit/s

95th percentile per-packet one-way delay: 117.695 ms

Loss rate: 0.19%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2017-11-16 03:58:06

End at: 2017-11-16 03:58:36

Below is generated by plot.py at 2017-11-16 05:45:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 276.64 Mbit/s

95th percentile per-packet one-way delay: 116.425 ms

Loss rate: 0.62%

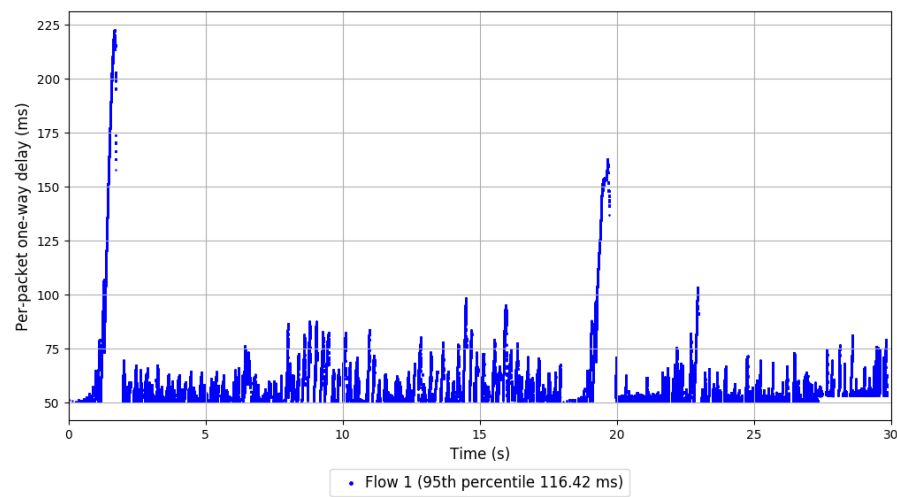
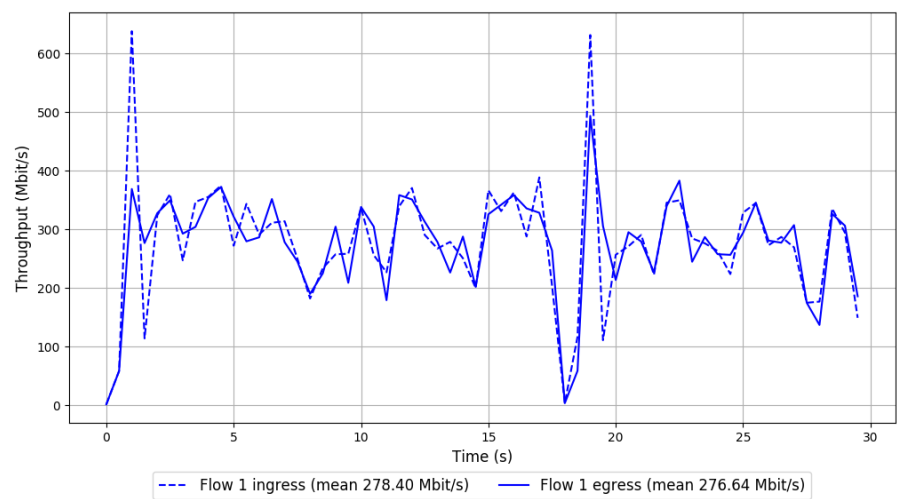
-- Flow 1:

Average throughput: 276.64 Mbit/s

95th percentile per-packet one-way delay: 116.425 ms

Loss rate: 0.62%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2017-11-16 04:07:59

End at: 2017-11-16 04:08:29

Below is generated by plot.py at 2017-11-16 05:45:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 251.84 Mbit/s

95th percentile per-packet one-way delay: 141.053 ms

Loss rate: 0.22%

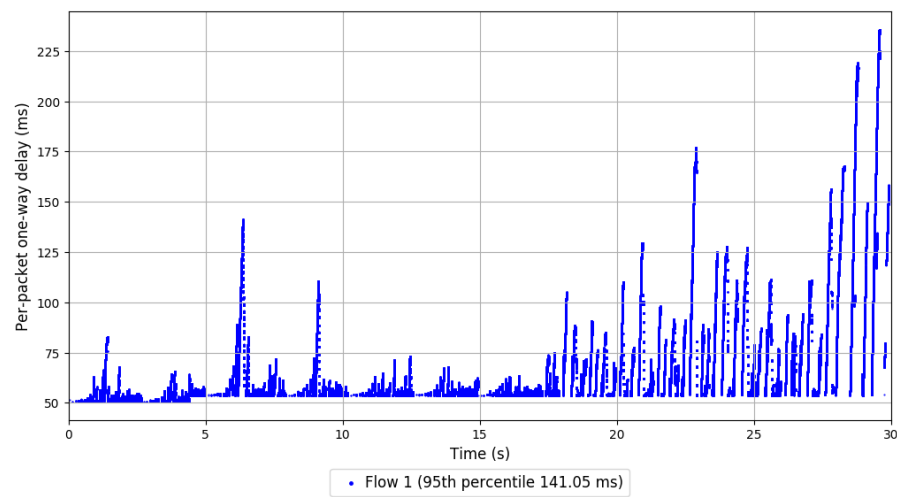
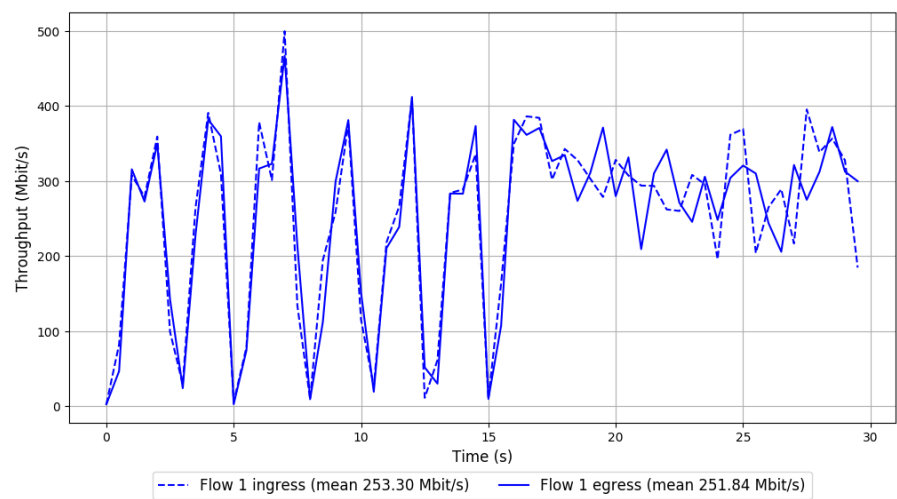
-- Flow 1:

Average throughput: 251.84 Mbit/s

95th percentile per-packet one-way delay: 141.053 ms

Loss rate: 0.22%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2017-11-16 04:18:13

End at: 2017-11-16 04:18:43

Below is generated by plot.py at 2017-11-16 05:48:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 277.75 Mbit/s

95th percentile per-packet one-way delay: 71.781 ms

Loss rate: 0.00%

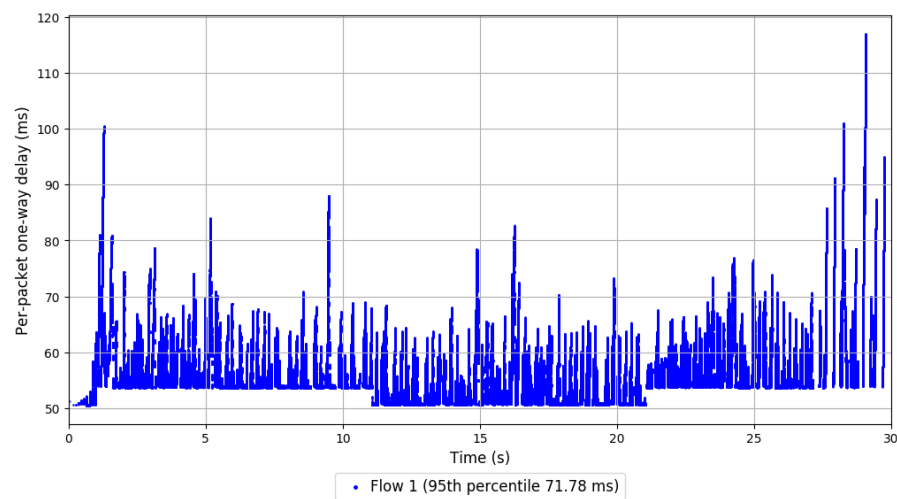
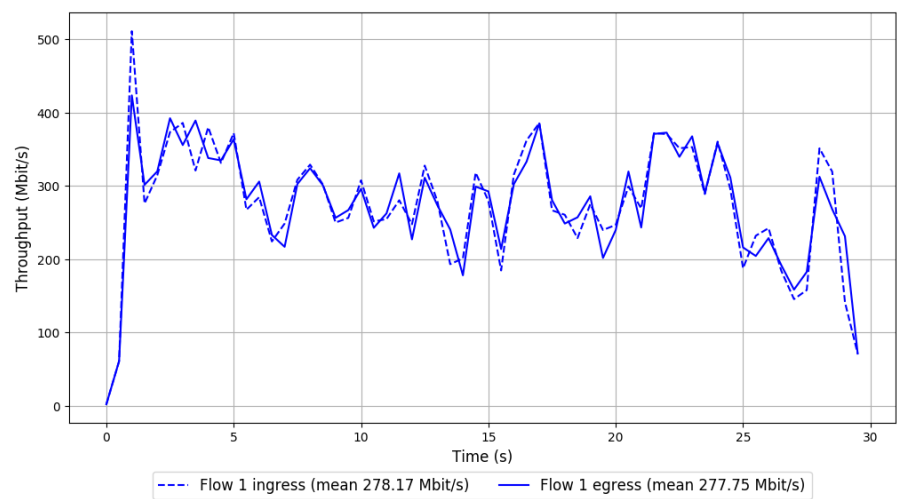
-- Flow 1:

Average throughput: 277.75 Mbit/s

95th percentile per-packet one-way delay: 71.781 ms

Loss rate: 0.00%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2017-11-16 04:28:13

End at: 2017-11-16 04:28:43

Below is generated by plot.py at 2017-11-16 05:49:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 291.27 Mbit/s

95th percentile per-packet one-way delay: 97.891 ms

Loss rate: 0.15%

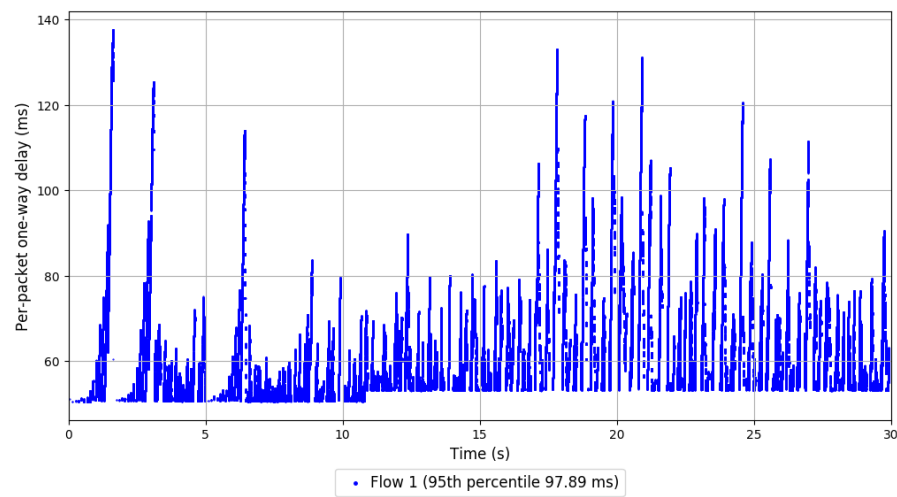
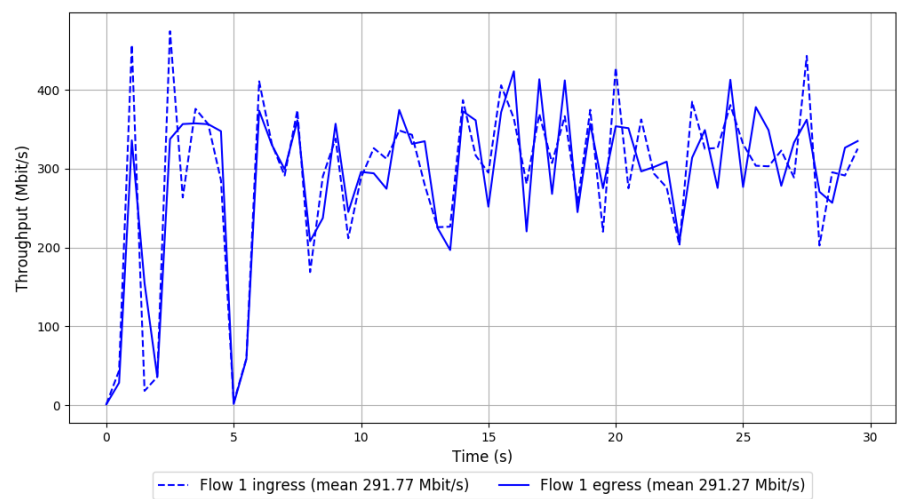
-- Flow 1:

Average throughput: 291.27 Mbit/s

95th percentile per-packet one-way delay: 97.891 ms

Loss rate: 0.15%

Run 10: Report of Verus — Data Link

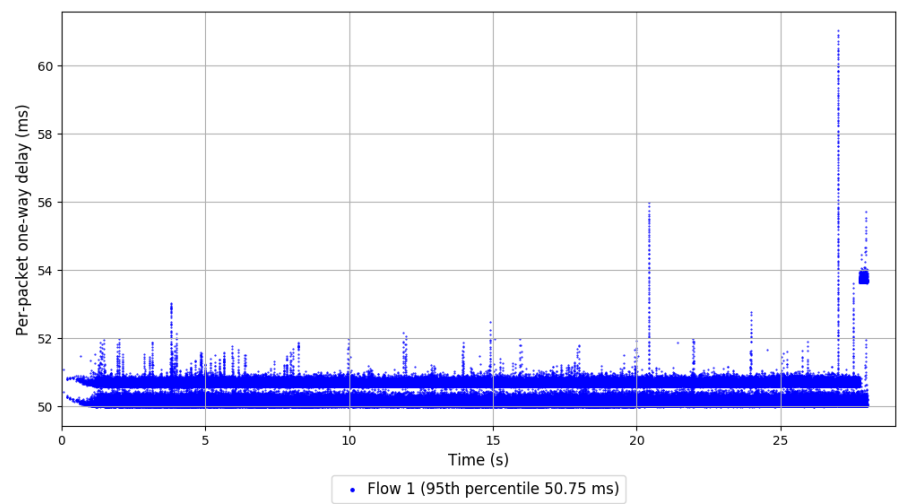
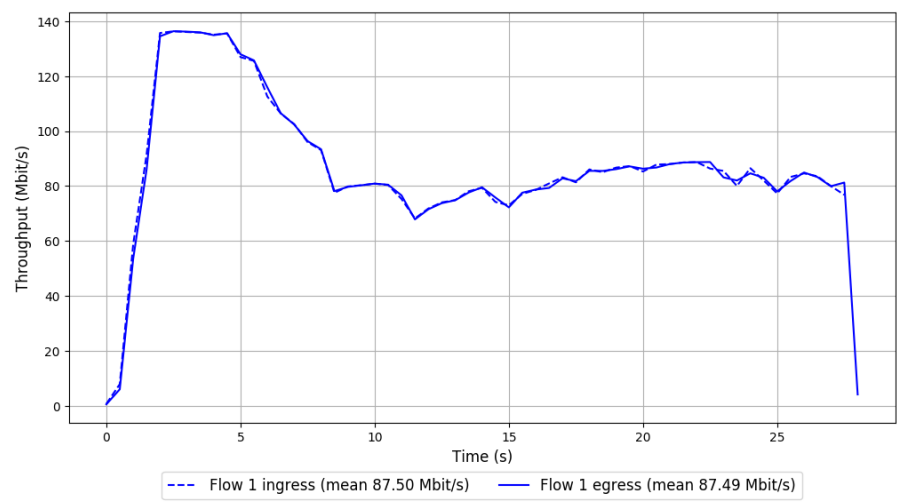


```
Run 1: Statistics of Copa

Start at: 2017-11-16 03:01:34
End at: 2017-11-16 03:02:04

# Below is generated by plot.py at 2017-11-16 05:49:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.49 Mbit/s
95th percentile per-packet one-way delay: 50.750 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 87.49 Mbit/s
95th percentile per-packet one-way delay: 50.750 ms
Loss rate: 0.00%
```

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2017-11-16 03:12:10

End at: 2017-11-16 03:12:40

Below is generated by plot.py at 2017-11-16 05:49:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 58.69 Mbit/s

95th percentile per-packet one-way delay: 53.515 ms

Loss rate: 0.01%

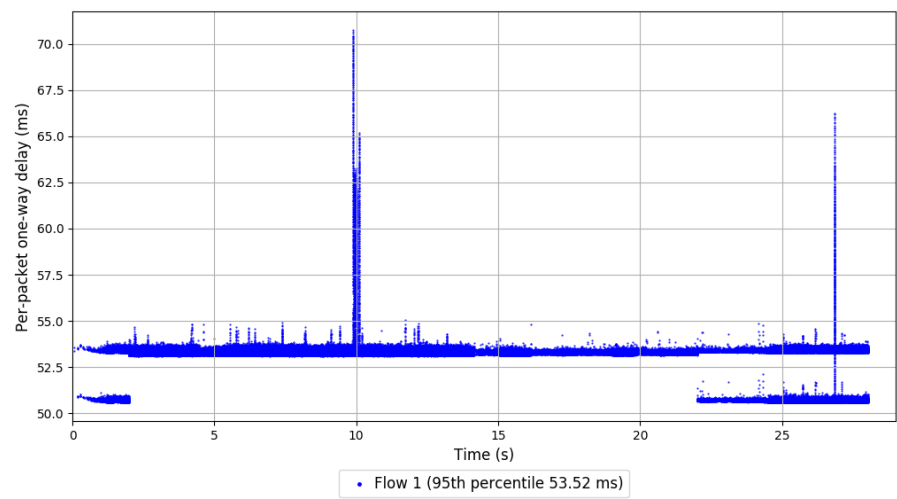
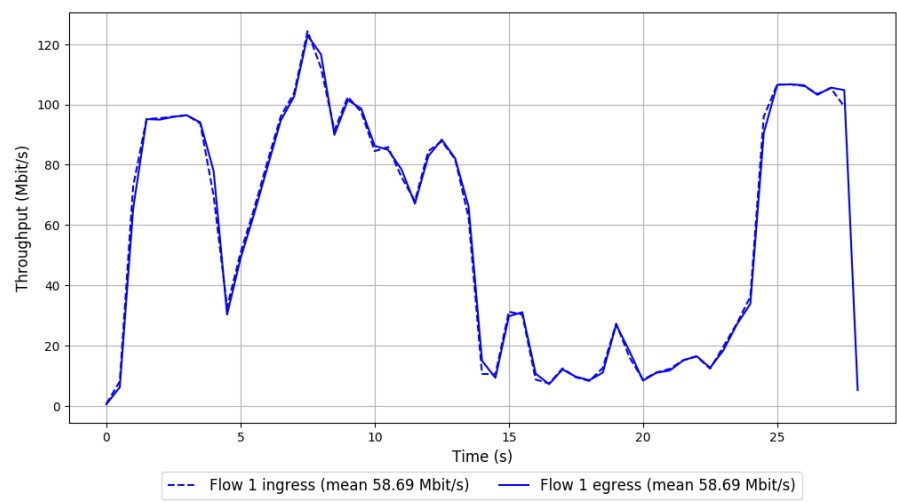
-- Flow 1:

Average throughput: 58.69 Mbit/s

95th percentile per-packet one-way delay: 53.515 ms

Loss rate: 0.01%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2017-11-16 03:22:39

End at: 2017-11-16 03:23:09

Below is generated by plot.py at 2017-11-16 05:49:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 80.31 Mbit/s

95th percentile per-packet one-way delay: 53.483 ms

Loss rate: 0.00%

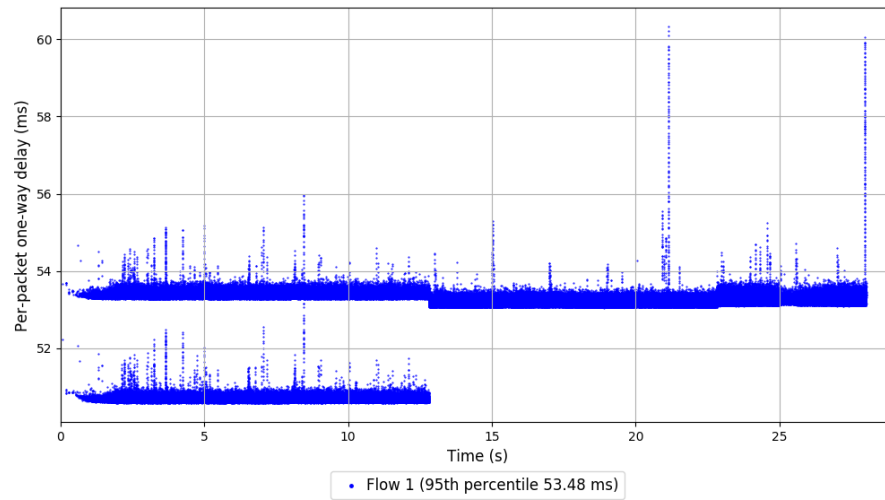
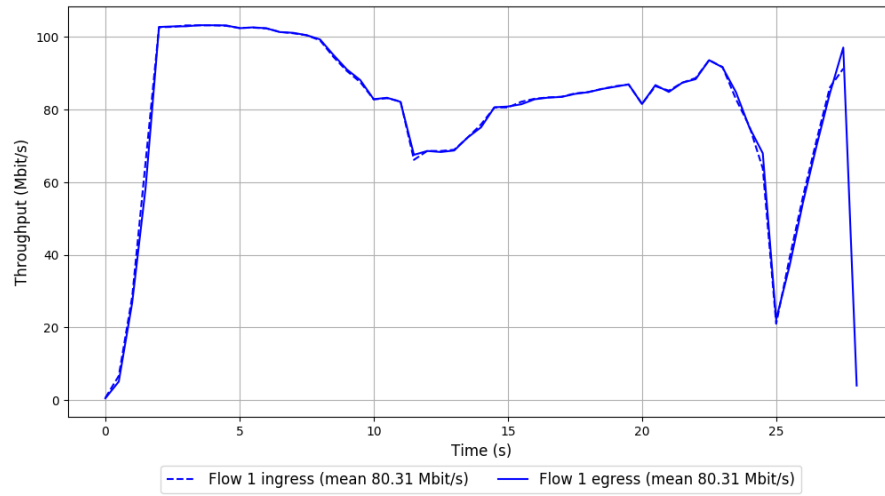
-- Flow 1:

Average throughput: 80.31 Mbit/s

95th percentile per-packet one-way delay: 53.483 ms

Loss rate: 0.00%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2017-11-16 03:32:42

End at: 2017-11-16 03:33:12

Below is generated by plot.py at 2017-11-16 05:49:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 68.96 Mbit/s

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

Loss rate: 0.00%

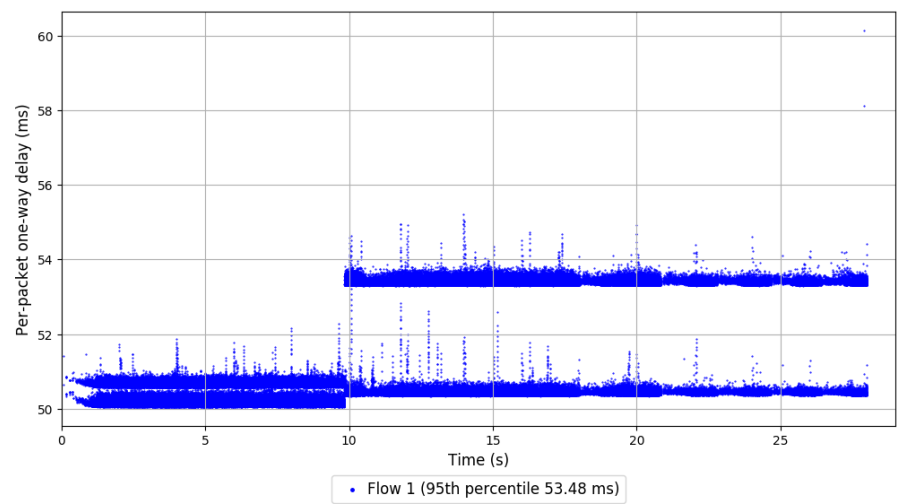
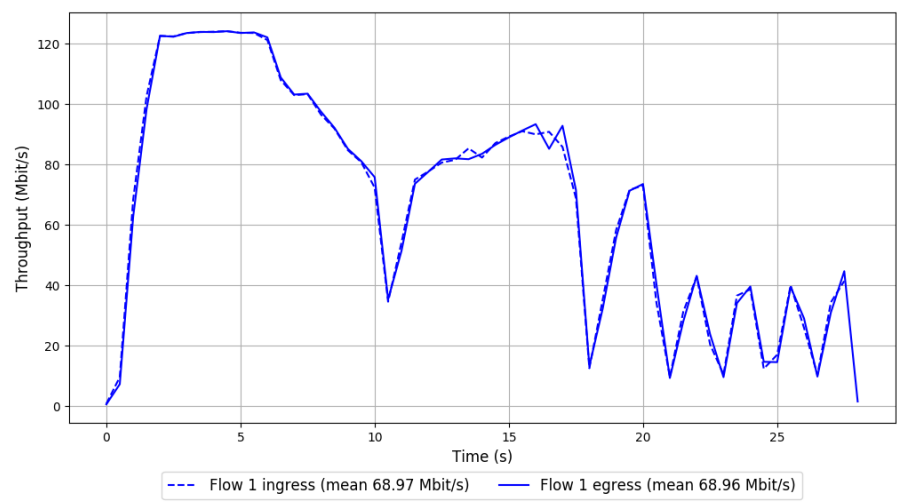
-- Flow 1:

Average throughput: 68.96 Mbit/s

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

Loss rate: 0.00%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2017-11-16 03:42:59

End at: 2017-11-16 03:43:29

Below is generated by plot.py at 2017-11-16 05:49:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 62.39 Mbit/s

95th percentile per-packet one-way delay: 53.762 ms

Loss rate: 0.00%

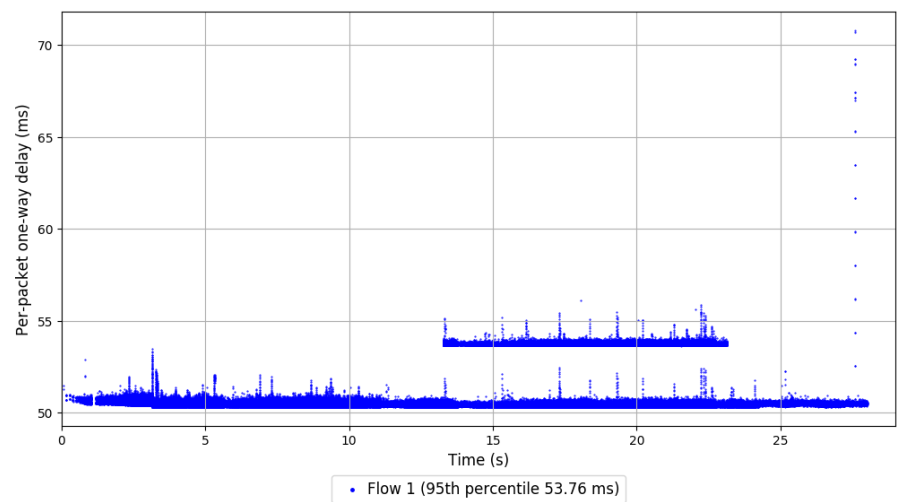
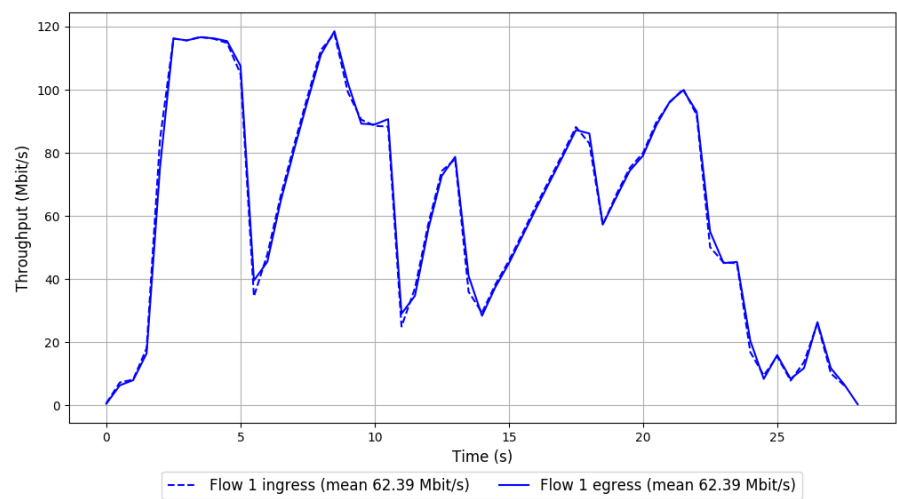
-- Flow 1:

Average throughput: 62.39 Mbit/s

95th percentile per-packet one-way delay: 53.762 ms

Loss rate: 0.00%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2017-11-16 03:53:11

End at: 2017-11-16 03:53:41

Below is generated by plot.py at 2017-11-16 05:49:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.52 Mbit/s

95th percentile per-packet one-way delay: 53.749 ms

Loss rate: 0.00%

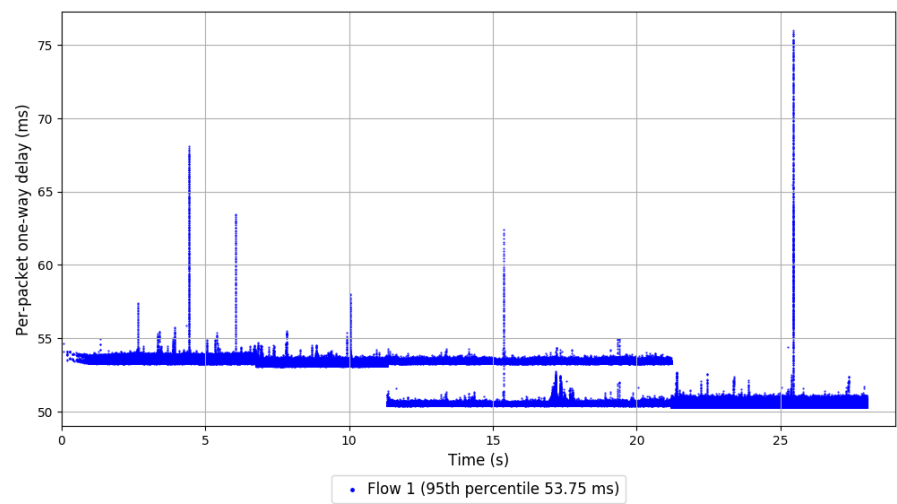
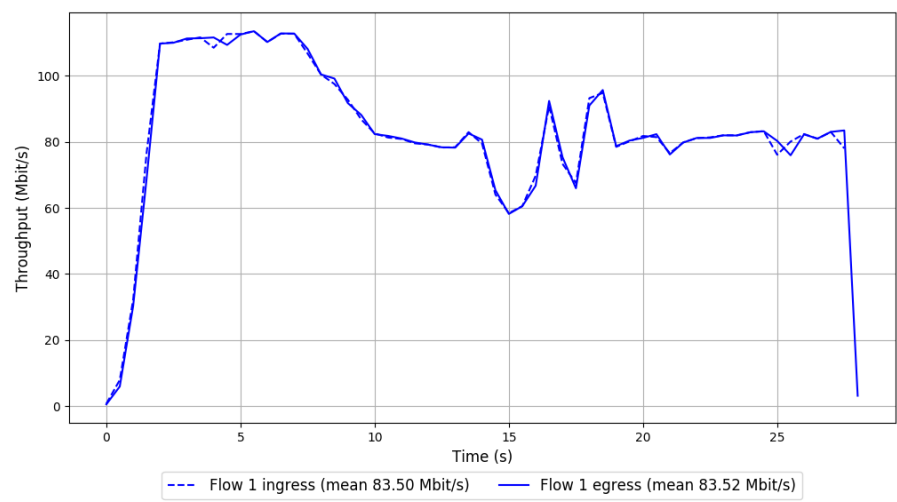
-- Flow 1:

Average throughput: 83.52 Mbit/s

95th percentile per-packet one-way delay: 53.749 ms

Loss rate: 0.00%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2017-11-16 04:03:09

End at: 2017-11-16 04:03:39

Below is generated by plot.py at 2017-11-16 05:49:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.66 Mbit/s

95th percentile per-packet one-way delay: 53.758 ms

Loss rate: 0.00%

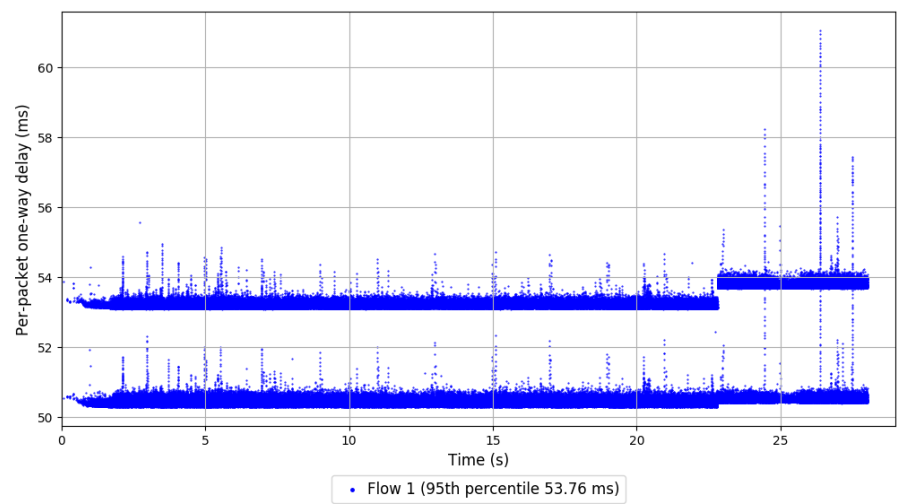
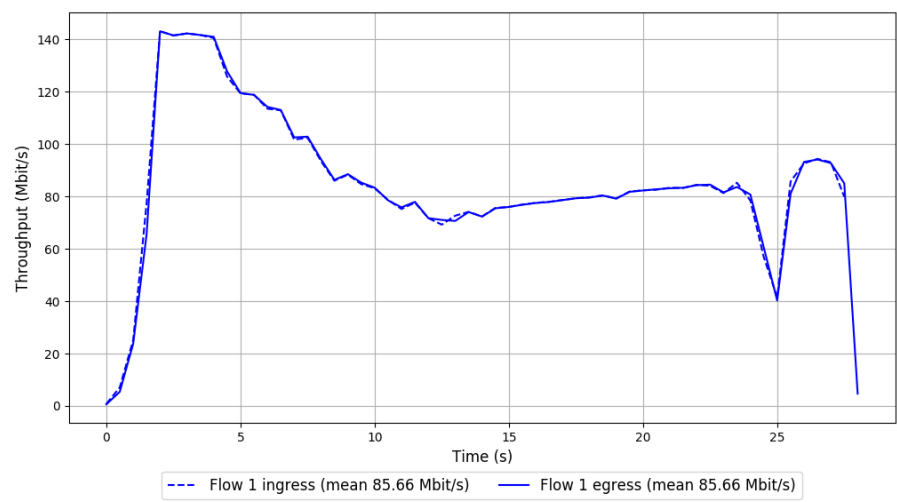
-- Flow 1:

Average throughput: 85.66 Mbit/s

95th percentile per-packet one-way delay: 53.758 ms

Loss rate: 0.00%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2017-11-16 04:12:55

End at: 2017-11-16 04:13:25

Below is generated by plot.py at 2017-11-16 05:49:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 81.00 Mbit/s

95th percentile per-packet one-way delay: 53.716 ms

Loss rate: 0.00%

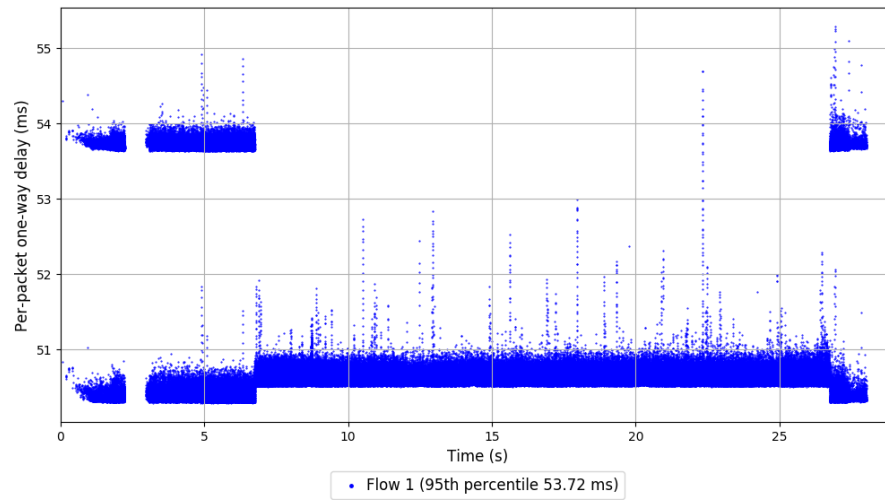
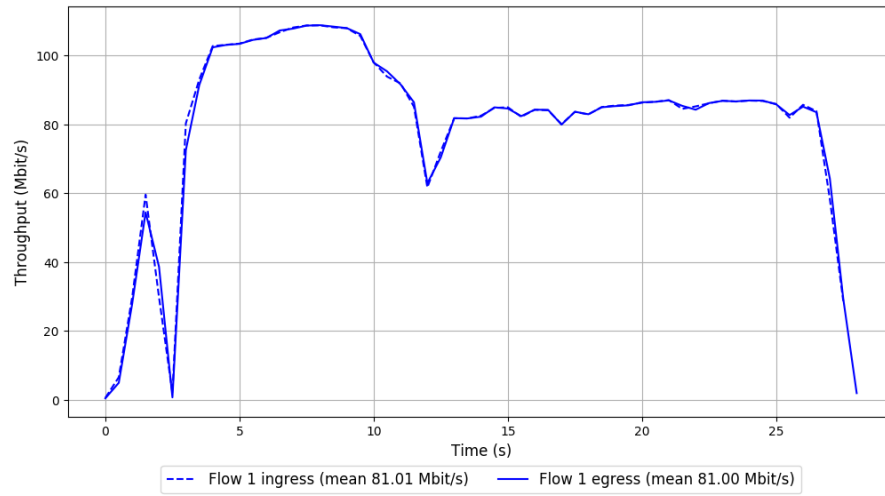
-- Flow 1:

Average throughput: 81.00 Mbit/s

95th percentile per-packet one-way delay: 53.716 ms

Loss rate: 0.00%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2017-11-16 04:23:19

End at: 2017-11-16 04:23:49

Below is generated by plot.py at 2017-11-16 05:50:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 79.47 Mbit/s

95th percentile per-packet one-way delay: 53.221 ms

Loss rate: 0.05%

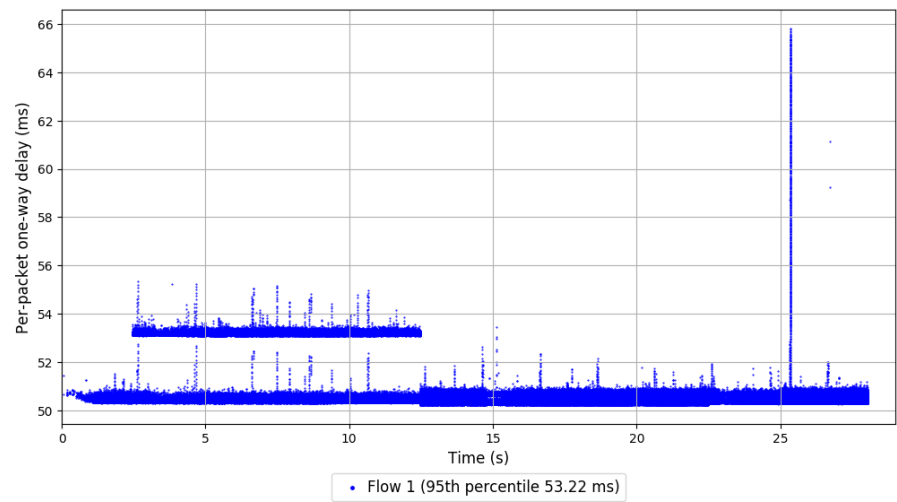
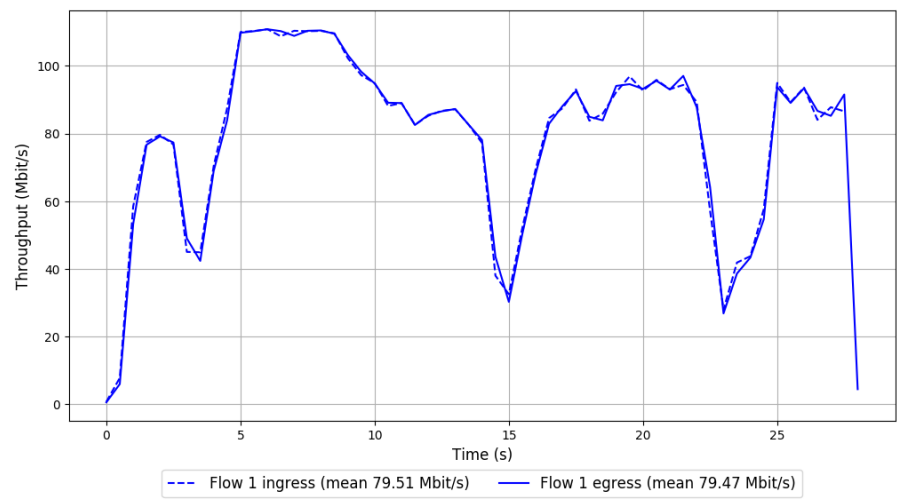
-- Flow 1:

Average throughput: 79.47 Mbit/s

95th percentile per-packet one-way delay: 53.221 ms

Loss rate: 0.05%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2017-11-16 04:33:12

End at: 2017-11-16 04:33:42

Below is generated by plot.py at 2017-11-16 05:50:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 81.12 Mbit/s

95th percentile per-packet one-way delay: 53.812 ms

Loss rate: 0.00%

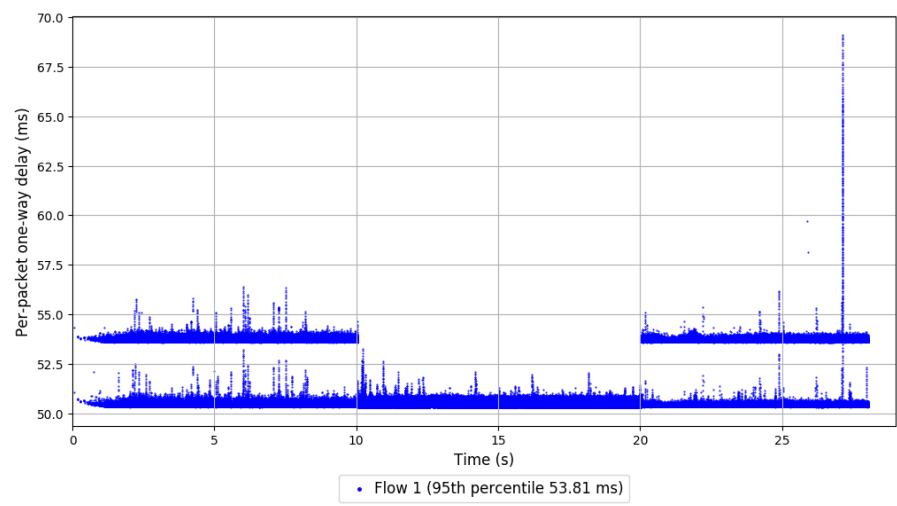
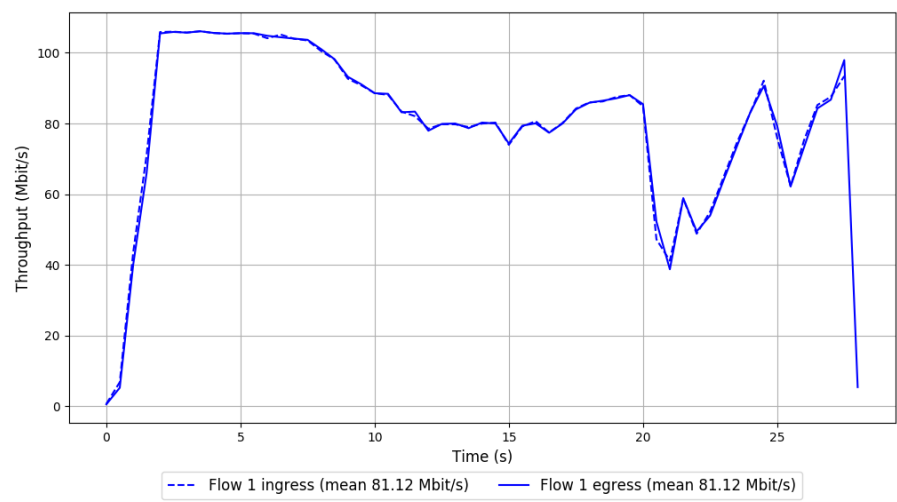
-- Flow 1:

Average throughput: 81.12 Mbit/s

95th percentile per-packet one-way delay: 53.812 ms

Loss rate: 0.00%

Run 10: Report of Copa — Data Link

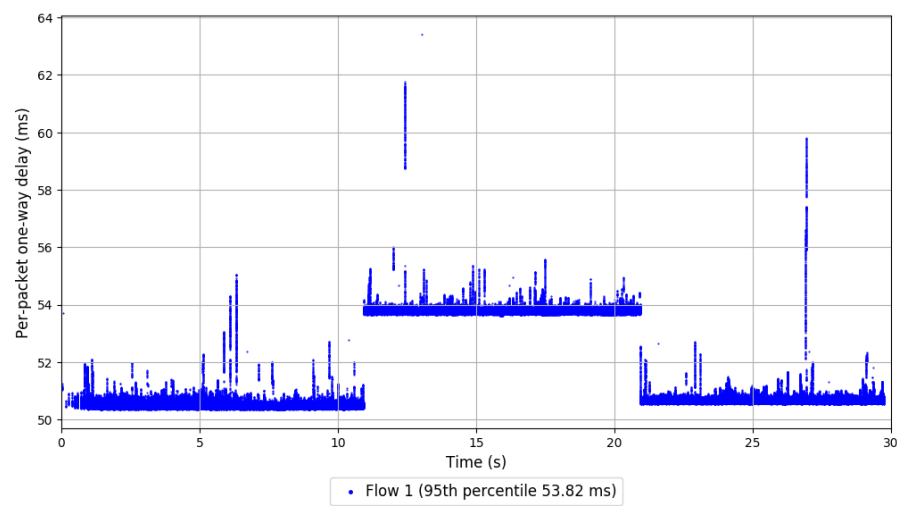
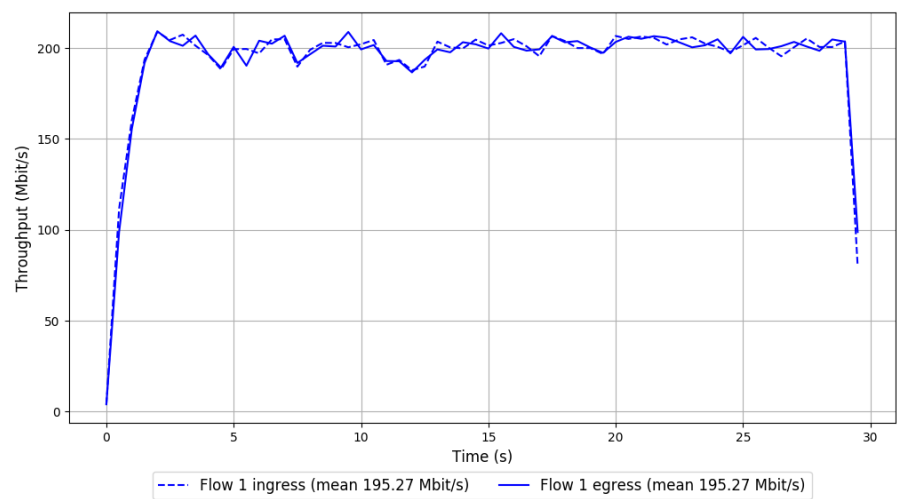


```
Run 1: Statistics of Indigo

Start at: 2017-11-16 02:52:53
End at: 2017-11-16 02:53:23

# Below is generated by plot.py at 2017-11-16 05:51:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 195.27 Mbit/s
95th percentile per-packet one-way delay: 53.817 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 195.27 Mbit/s
95th percentile per-packet one-way delay: 53.817 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2017-11-16 03:03:37

End at: 2017-11-16 03:04:07

Below is generated by plot.py at 2017-11-16 05:52:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 198.37 Mbit/s

95th percentile per-packet one-way delay: 53.720 ms

Loss rate: 0.00%

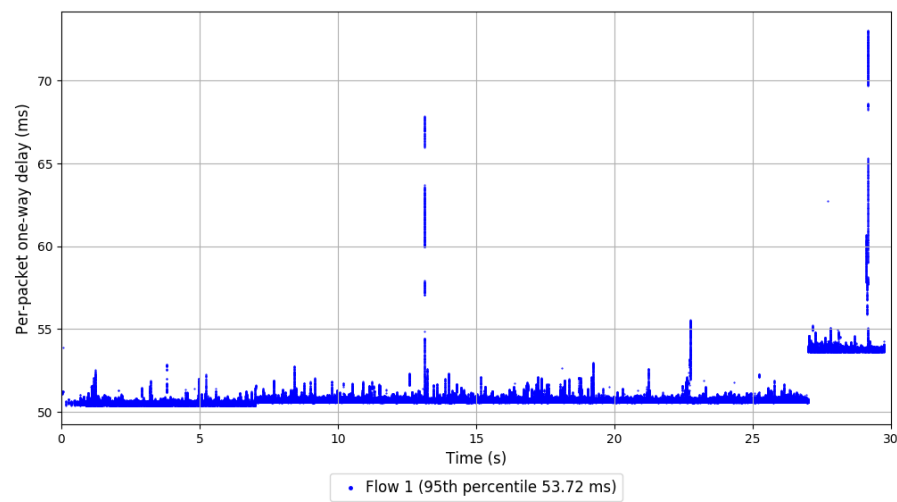
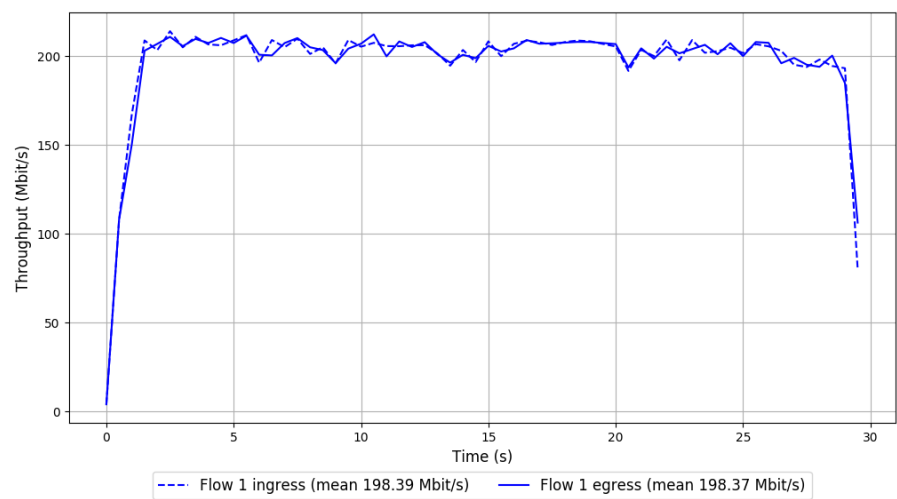
-- Flow 1:

Average throughput: 198.37 Mbit/s

95th percentile per-packet one-way delay: 53.720 ms

Loss rate: 0.00%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2017-11-16 03:14:10

End at: 2017-11-16 03:14:40

Below is generated by plot.py at 2017-11-16 05:52:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 200.61 Mbit/s

95th percentile per-packet one-way delay: 53.345 ms

Loss rate: 0.00%

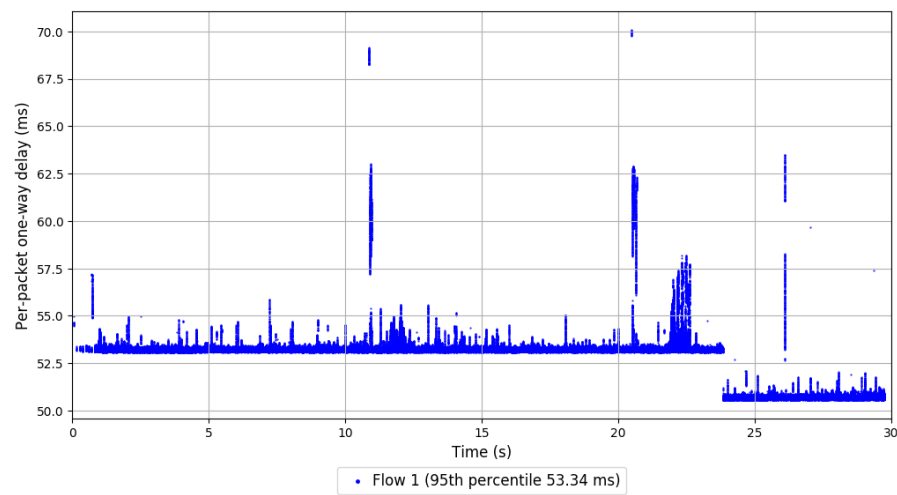
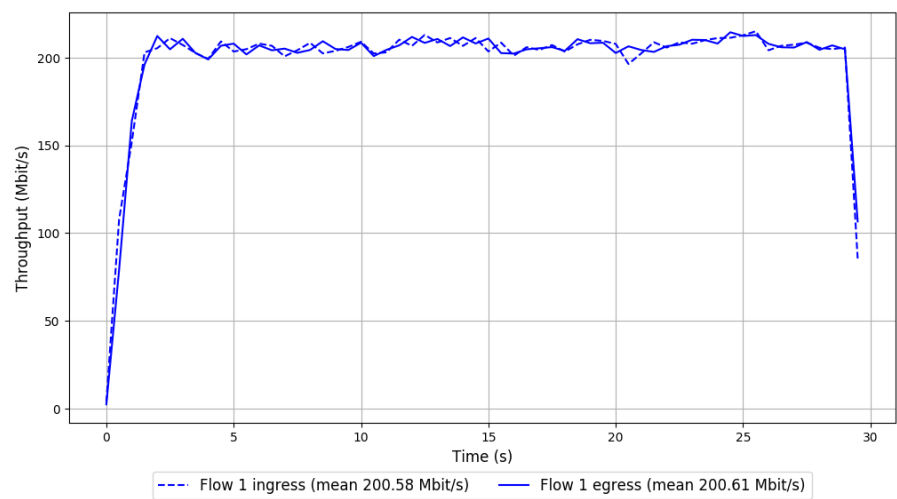
-- Flow 1:

Average throughput: 200.61 Mbit/s

95th percentile per-packet one-way delay: 53.345 ms

Loss rate: 0.00%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2017-11-16 03:24:40

End at: 2017-11-16 03:25:10

Below is generated by plot.py at 2017-11-16 05:52:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 181.39 Mbit/s

95th percentile per-packet one-way delay: 53.775 ms

Loss rate: 0.00%

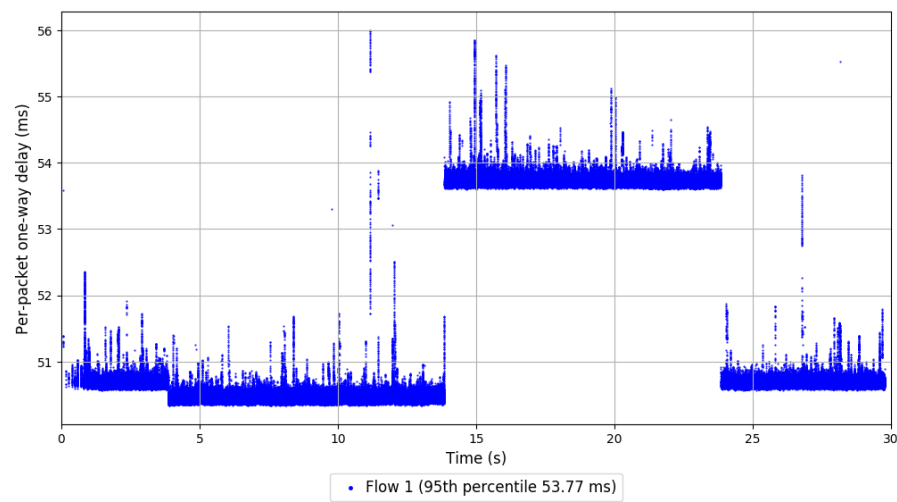
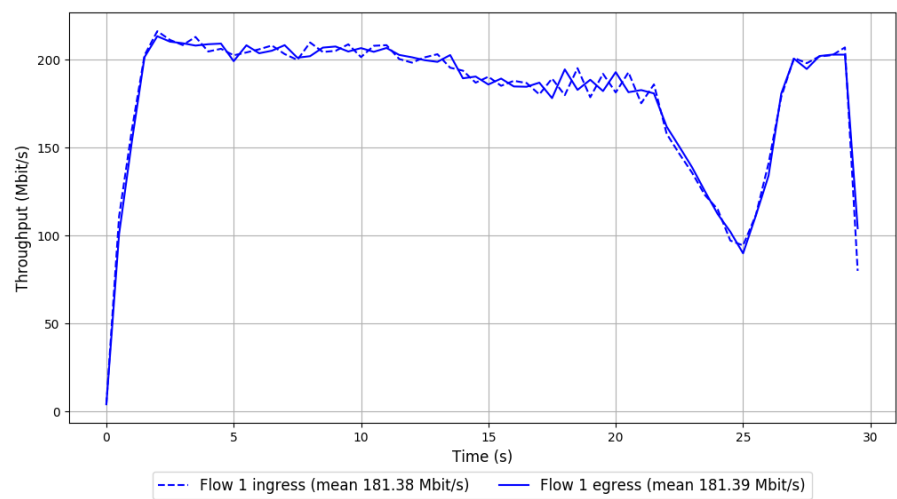
-- Flow 1:

Average throughput: 181.39 Mbit/s

95th percentile per-packet one-way delay: 53.775 ms

Loss rate: 0.00%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2017-11-16 03:34:42

End at: 2017-11-16 03:35:12

Below is generated by plot.py at 2017-11-16 05:52:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 195.49 Mbit/s

95th percentile per-packet one-way delay: 53.771 ms

Loss rate: 0.00%

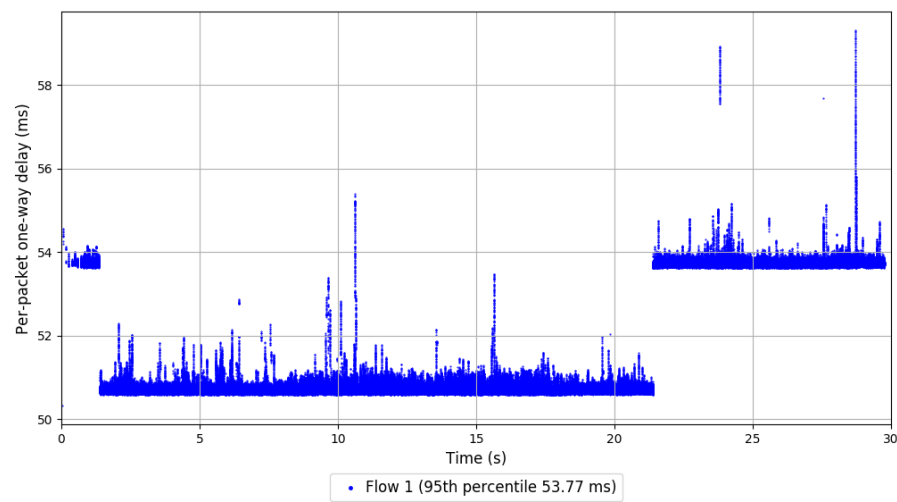
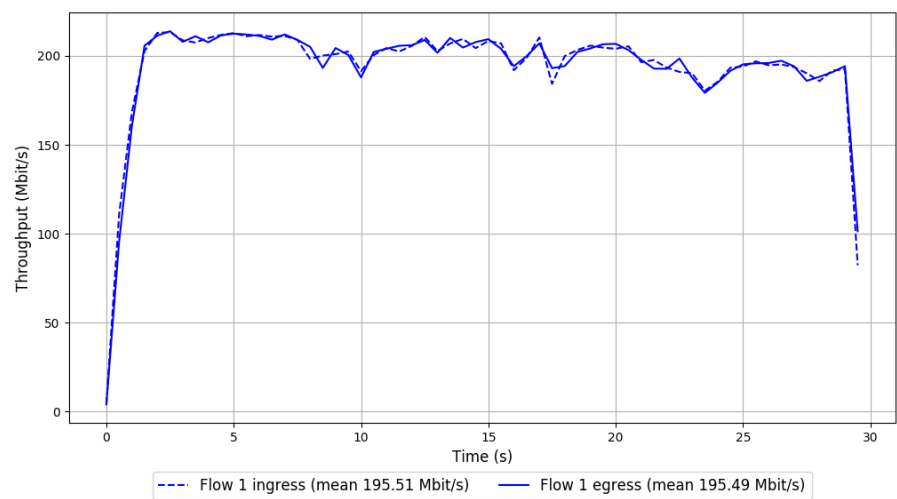
-- Flow 1:

Average throughput: 195.49 Mbit/s

95th percentile per-packet one-way delay: 53.771 ms

Loss rate: 0.00%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2017-11-16 03:44:58

End at: 2017-11-16 03:45:28

Below is generated by plot.py at 2017-11-16 05:52:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 201.72 Mbit/s

95th percentile per-packet one-way delay: 50.911 ms

Loss rate: 0.00%

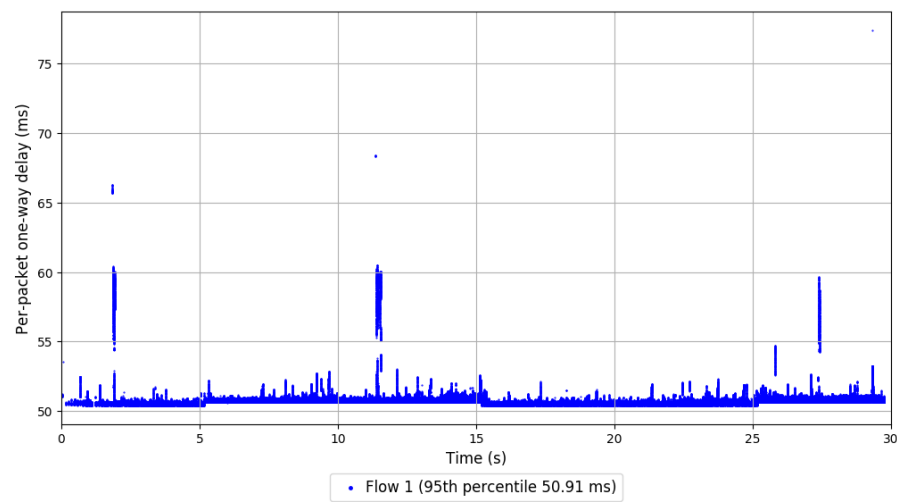
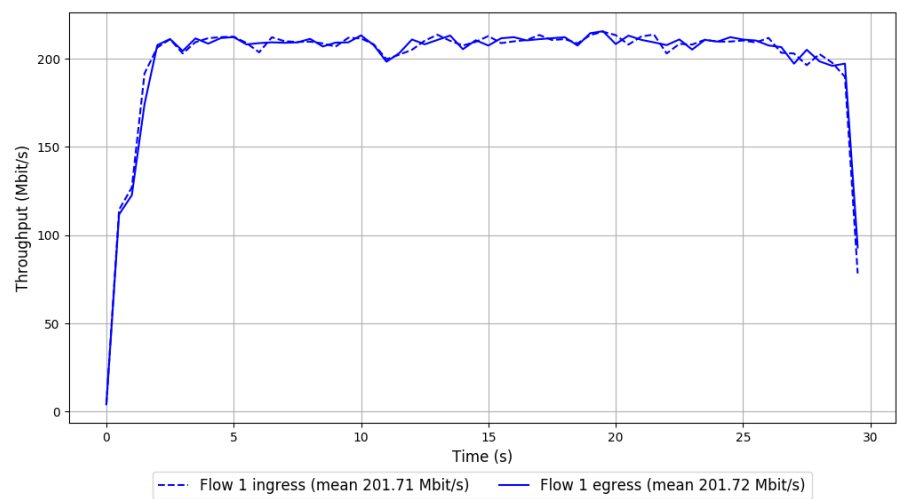
-- Flow 1:

Average throughput: 201.72 Mbit/s

95th percentile per-packet one-way delay: 50.911 ms

Loss rate: 0.00%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2017-11-16 03:55:13

End at: 2017-11-16 03:55:43

Below is generated by plot.py at 2017-11-16 05:53:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 186.08 Mbit/s

95th percentile per-packet one-way delay: 53.288 ms

Loss rate: 0.00%

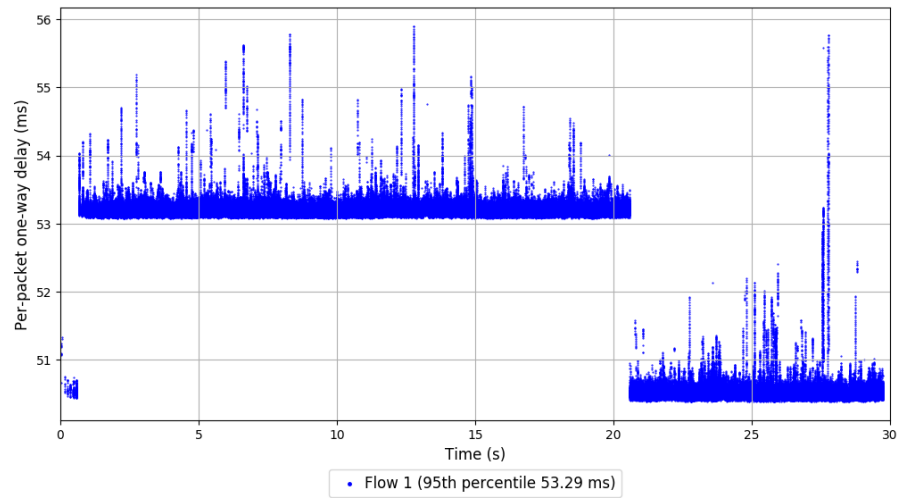
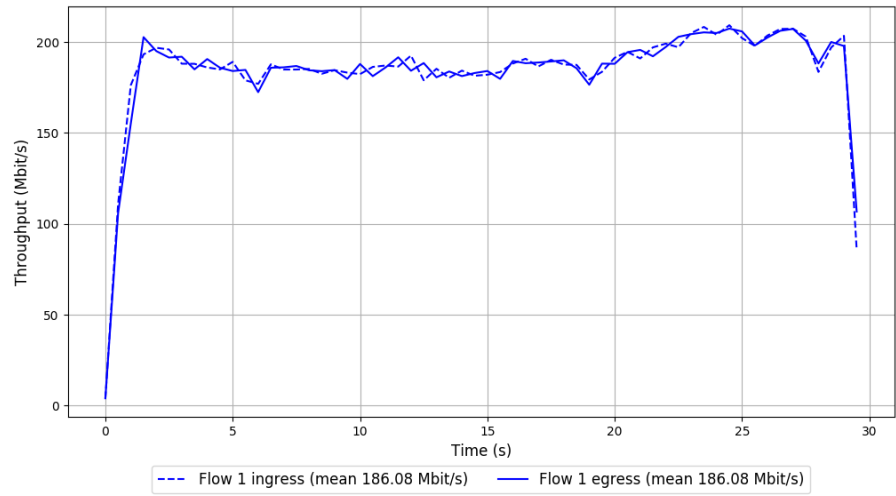
-- Flow 1:

Average throughput: 186.08 Mbit/s

95th percentile per-packet one-way delay: 53.288 ms

Loss rate: 0.00%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2017-11-16 04:05:09

End at: 2017-11-16 04:05:39

Below is generated by plot.py at 2017-11-16 05:53:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 197.69 Mbit/s

95th percentile per-packet one-way delay: 53.380 ms

Loss rate: 0.01%

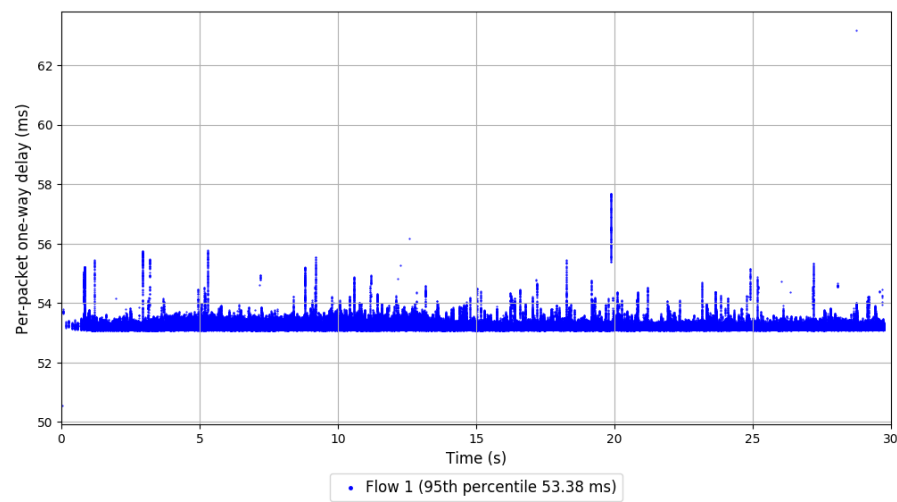
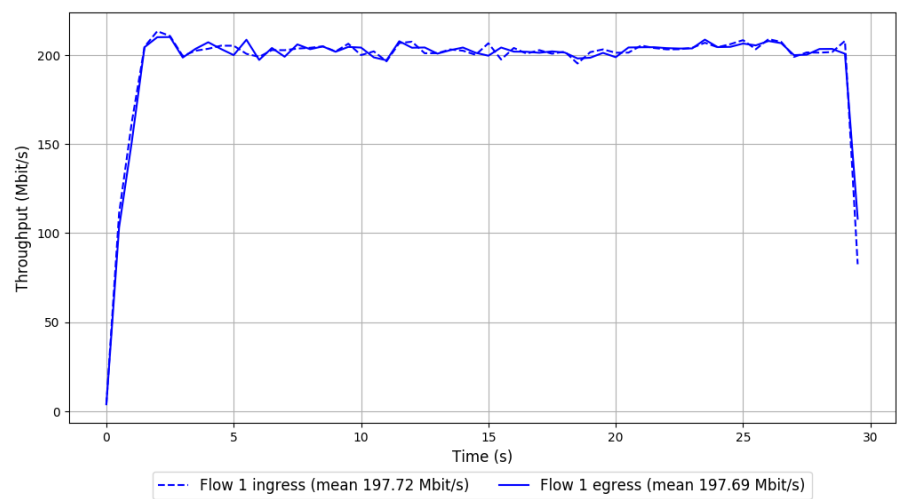
-- Flow 1:

Average throughput: 197.69 Mbit/s

95th percentile per-packet one-way delay: 53.380 ms

Loss rate: 0.01%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2017-11-16 04:14:56

End at: 2017-11-16 04:15:26

Below is generated by plot.py at 2017-11-16 05:54:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 194.37 Mbit/s

95th percentile per-packet one-way delay: 53.839 ms

Loss rate: 0.00%

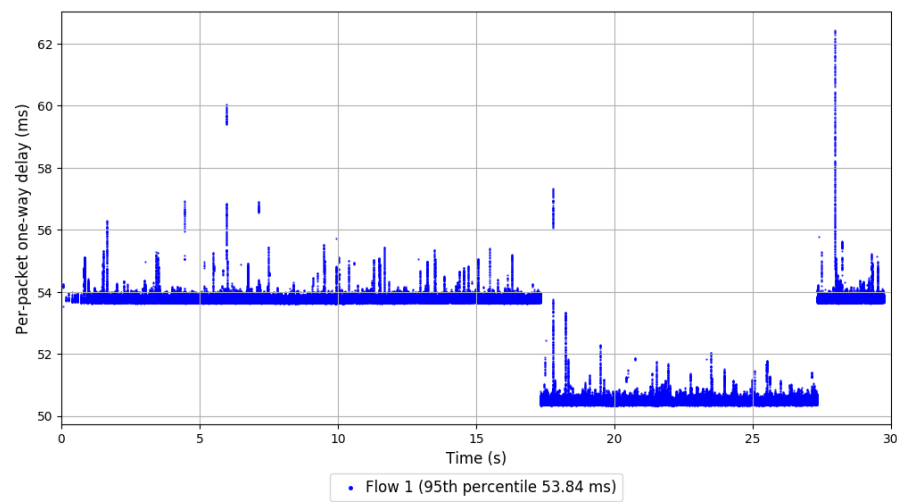
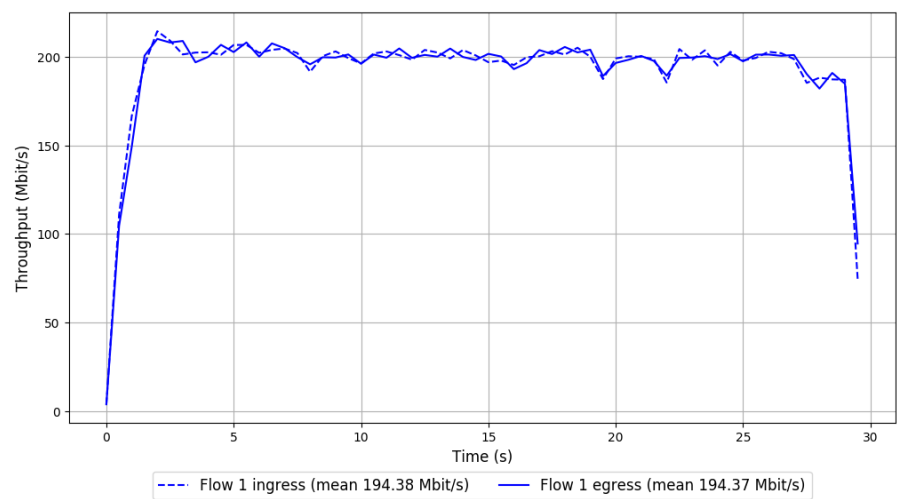
-- Flow 1:

Average throughput: 194.37 Mbit/s

95th percentile per-packet one-way delay: 53.839 ms

Loss rate: 0.00%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2017-11-16 04:25:19

End at: 2017-11-16 04:25:49

Below is generated by plot.py at 2017-11-16 05:55:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 198.06 Mbit/s

95th percentile per-packet one-way delay: 53.202 ms

Loss rate: 0.00%

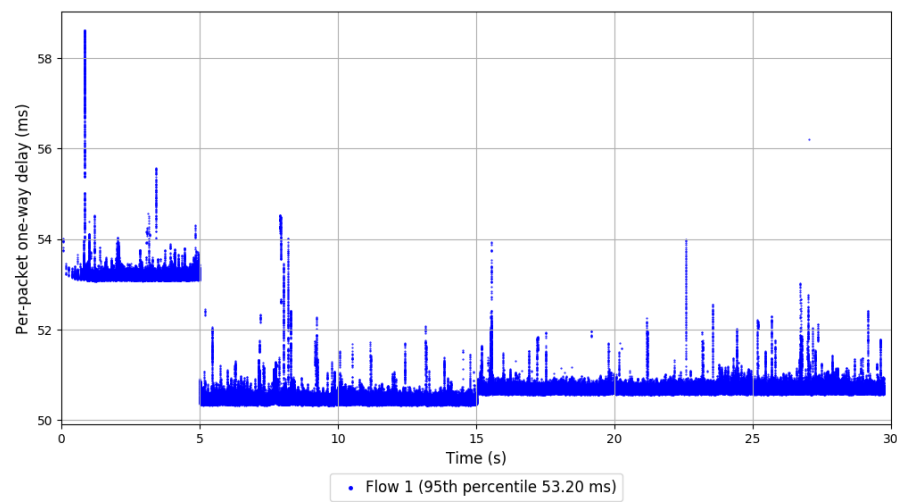
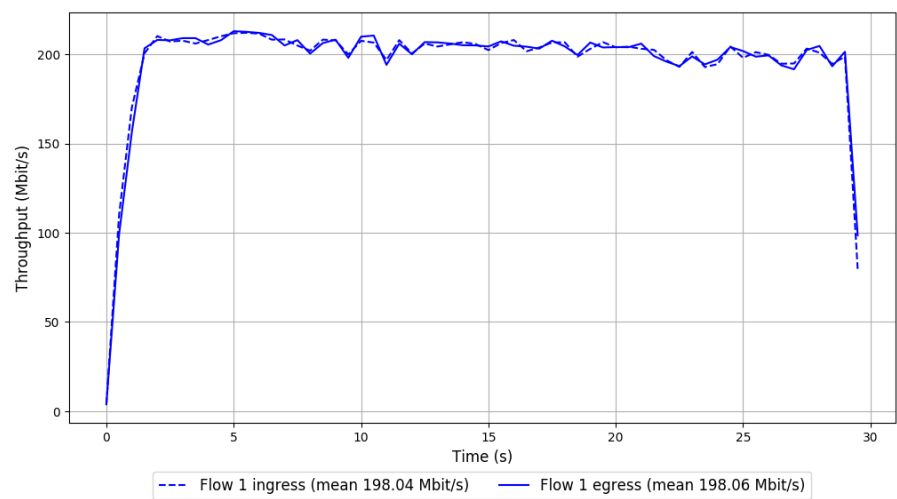
-- Flow 1:

Average throughput: 198.06 Mbit/s

95th percentile per-packet one-way delay: 53.202 ms

Loss rate: 0.00%

Run 10: Report of Indigo — Data Link

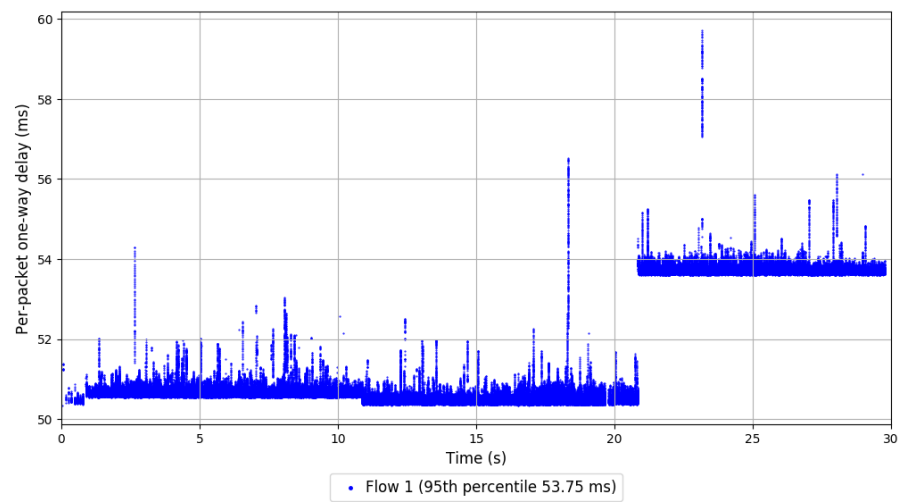
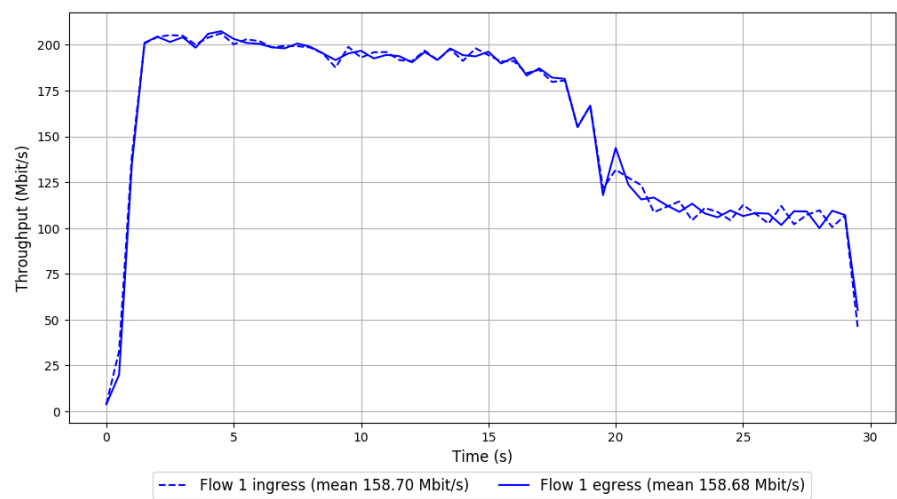


```
Run 1: Statistics of Indigo-calib

Start at: 2017-11-16 02:53:43
End at: 2017-11-16 02:54:13

# Below is generated by plot.py at 2017-11-16 05:55:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 158.68 Mbit/s
95th percentile per-packet one-way delay: 53.750 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 158.68 Mbit/s
95th percentile per-packet one-way delay: 53.750 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo-calib — Data Link

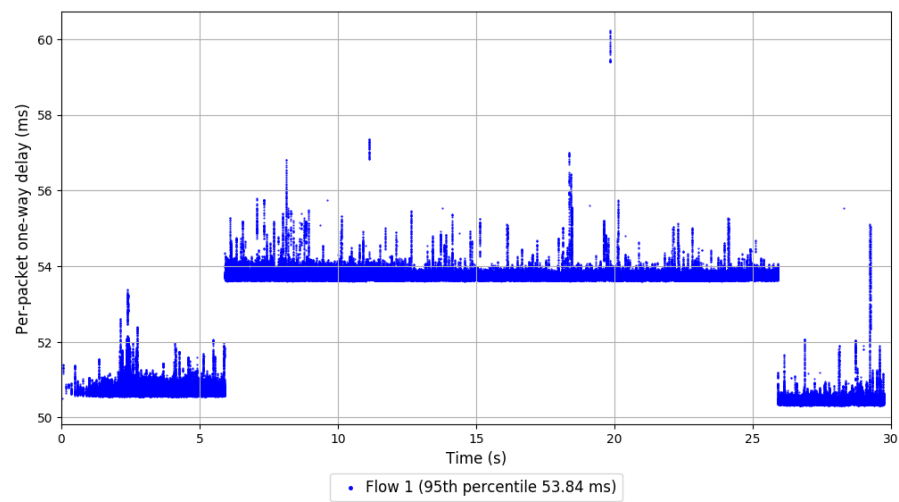
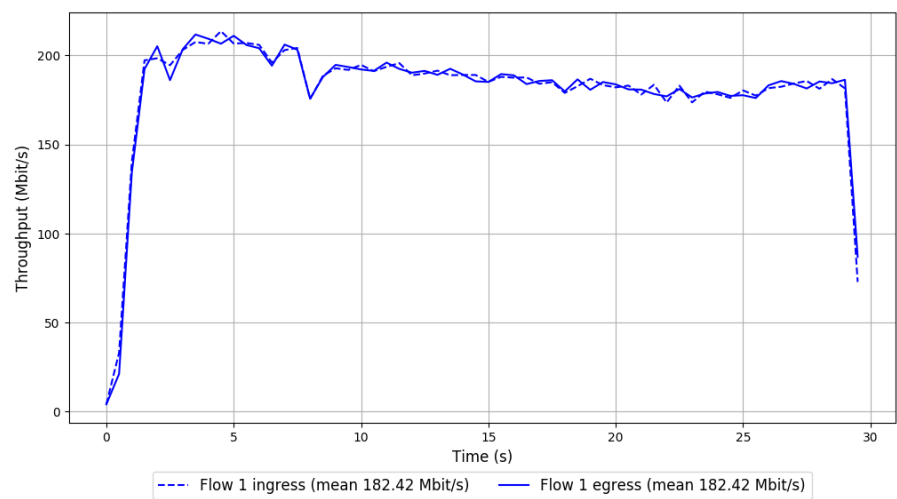


```
Run 2: Statistics of Indigo-calib

Start at: 2017-11-16 03:04:28
End at: 2017-11-16 03:04:58

# Below is generated by plot.py at 2017-11-16 05:55:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 182.42 Mbit/s
95th percentile per-packet one-way delay: 53.841 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 182.42 Mbit/s
95th percentile per-packet one-way delay: 53.841 ms
Loss rate: 0.00%
```

Run 2: Report of Indigo-calib — Data Link

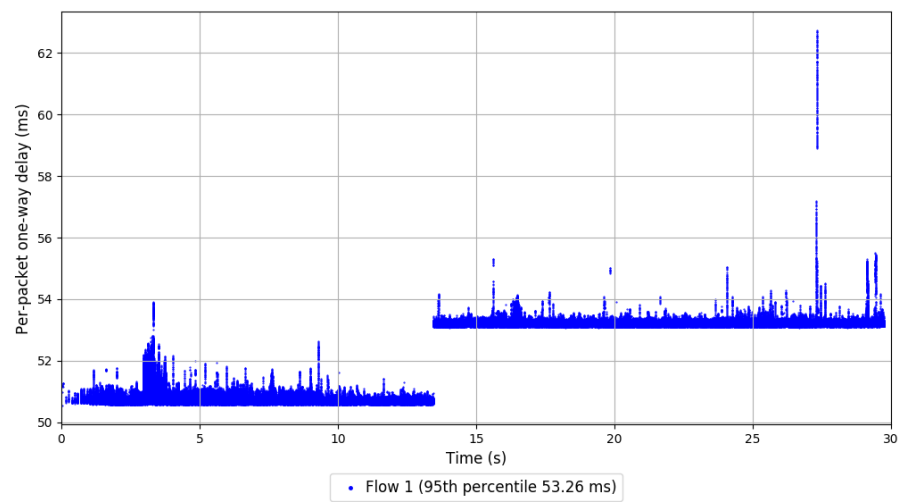
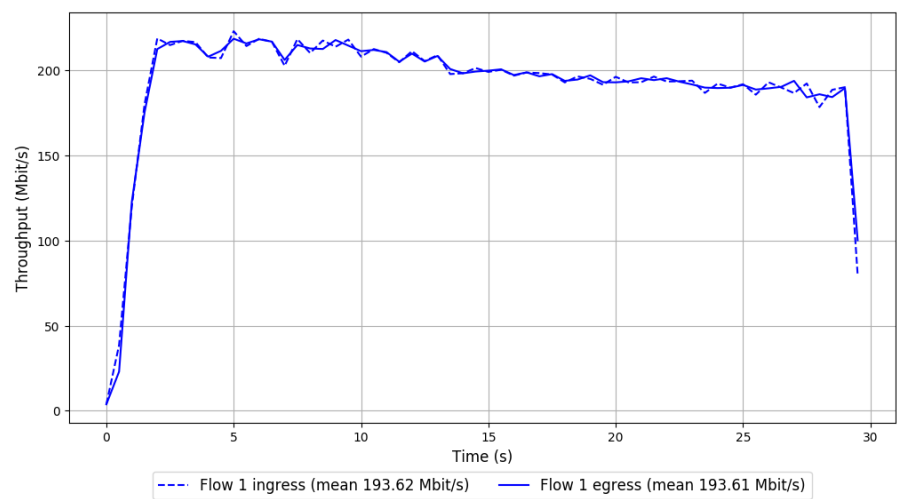


```
Run 3: Statistics of Indigo-calib

Start at: 2017-11-16 03:15:00
End at: 2017-11-16 03:15:30

# Below is generated by plot.py at 2017-11-16 05:56:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 193.61 Mbit/s
95th percentile per-packet one-way delay: 53.263 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 193.61 Mbit/s
95th percentile per-packet one-way delay: 53.263 ms
Loss rate: 0.00%
```

Run 3: Report of Indigo-calib — Data Link



Run 4: Statistics of Indigo-calib

Start at: 2017-11-16 03:25:29

End at: 2017-11-16 03:25:59

Below is generated by plot.py at 2017-11-16 05:56:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 200.41 Mbit/s

95th percentile per-packet one-way delay: 53.814 ms

Loss rate: 0.00%

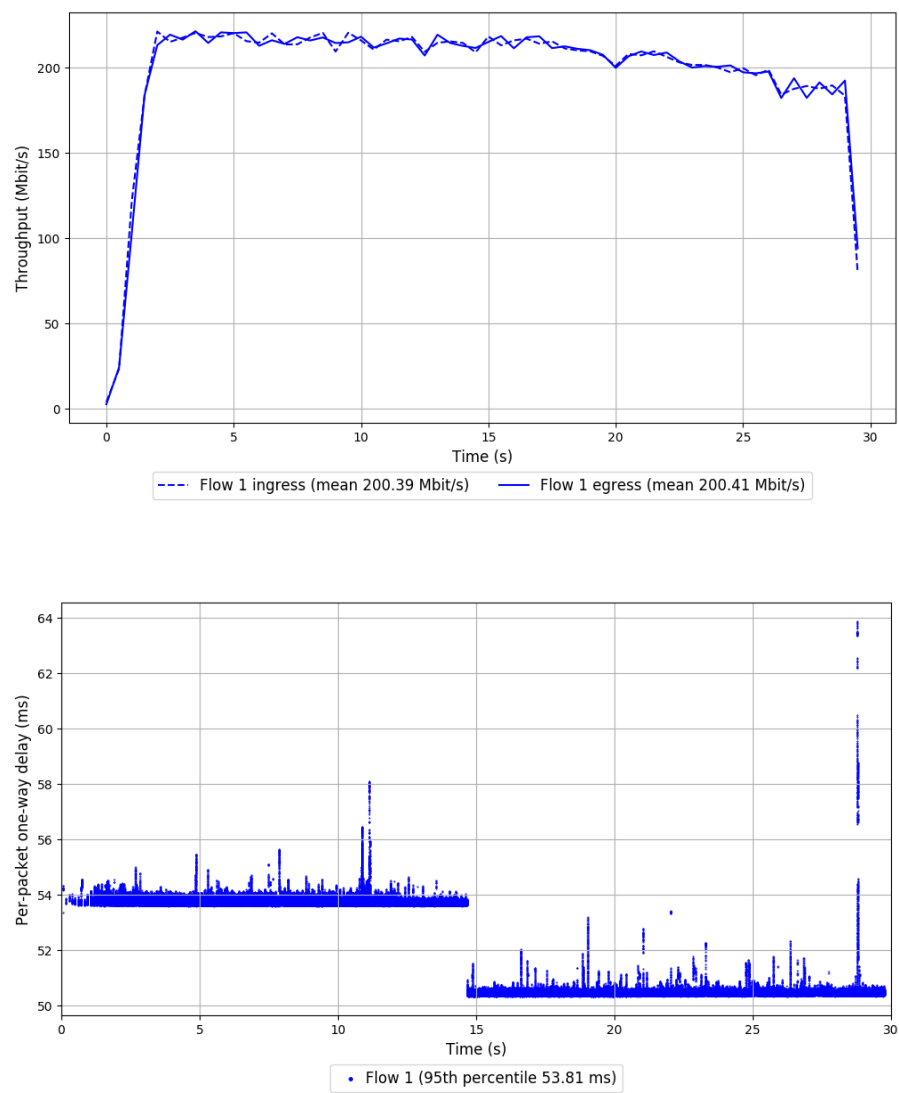
-- Flow 1:

Average throughput: 200.41 Mbit/s

95th percentile per-packet one-way delay: 53.814 ms

Loss rate: 0.00%

Run 4: Report of Indigo-calib — Data Link

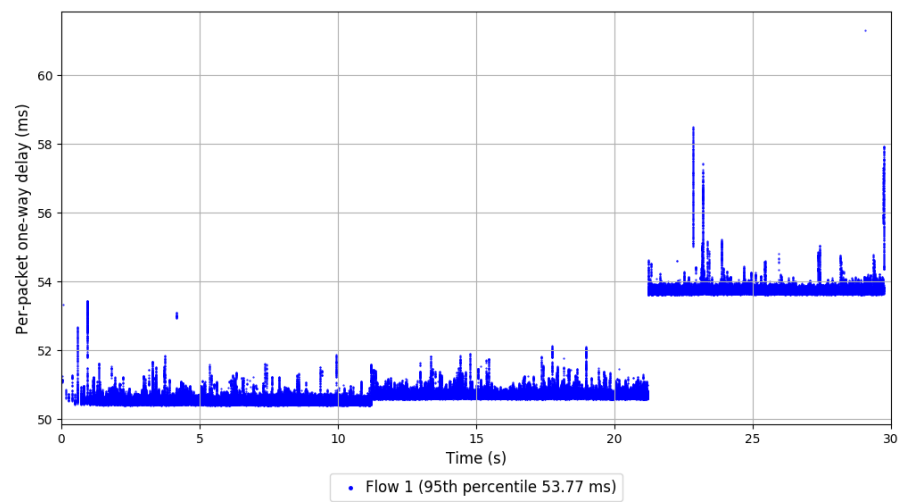
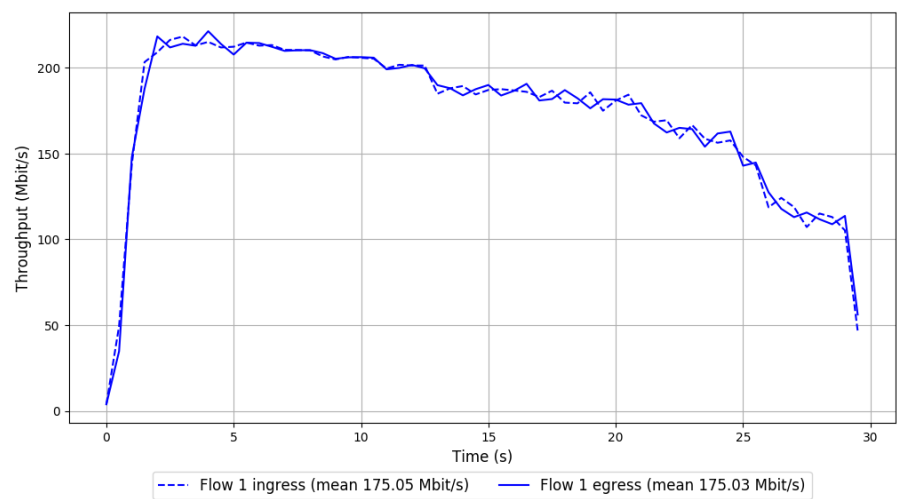


```
Run 5: Statistics of Indigo-calib

Start at: 2017-11-16 03:35:32
End at: 2017-11-16 03:36:02

# Below is generated by plot.py at 2017-11-16 05:56:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 175.03 Mbit/s
95th percentile per-packet one-way delay: 53.766 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 175.03 Mbit/s
95th percentile per-packet one-way delay: 53.766 ms
Loss rate: 0.00%
```

Run 5: Report of Indigo-calib — Data Link



Run 6: Statistics of Indigo-calib

Start at: 2017-11-16 03:45:49

End at: 2017-11-16 03:46:19

Below is generated by plot.py at 2017-11-16 05:56:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 160.63 Mbit/s

95th percentile per-packet one-way delay: 53.836 ms

Loss rate: 0.00%

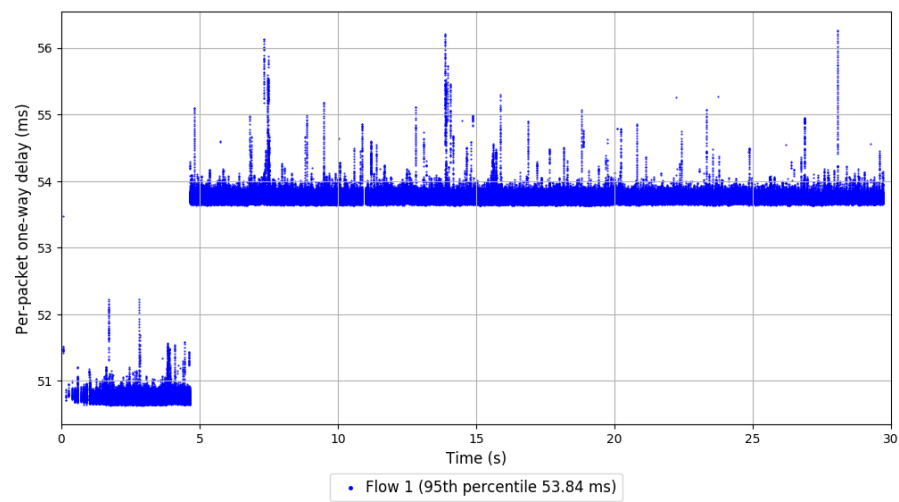
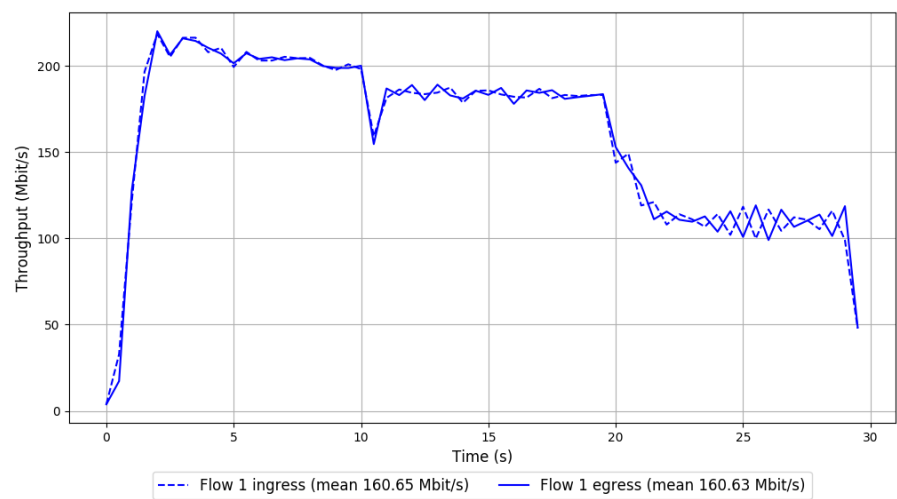
-- Flow 1:

Average throughput: 160.63 Mbit/s

95th percentile per-packet one-way delay: 53.836 ms

Loss rate: 0.00%

Run 6: Report of Indigo-calib — Data Link



Run 7: Statistics of Indigo-calib

Start at: 2017-11-16 03:56:03

End at: 2017-11-16 03:56:33

Below is generated by plot.py at 2017-11-16 05:56:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 183.34 Mbit/s

95th percentile per-packet one-way delay: 53.252 ms

Loss rate: 0.00%

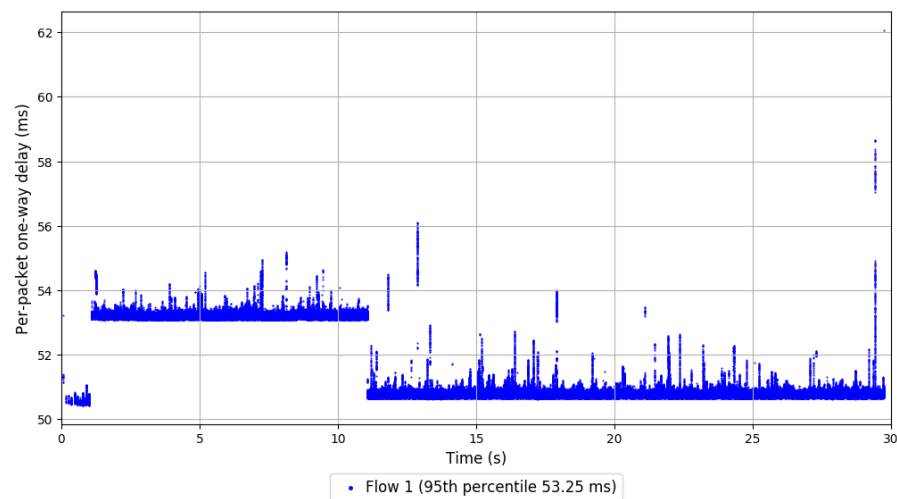
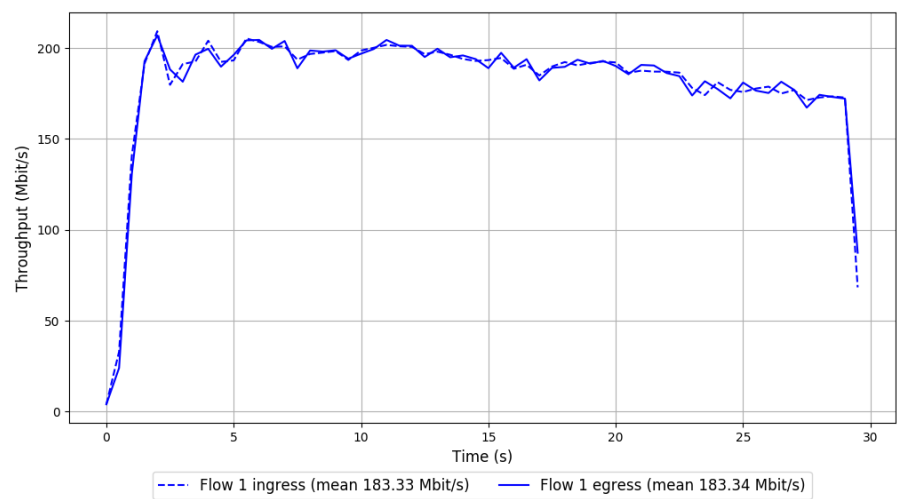
-- Flow 1:

Average throughput: 183.34 Mbit/s

95th percentile per-packet one-way delay: 53.252 ms

Loss rate: 0.00%

Run 7: Report of Indigo-calib — Data Link

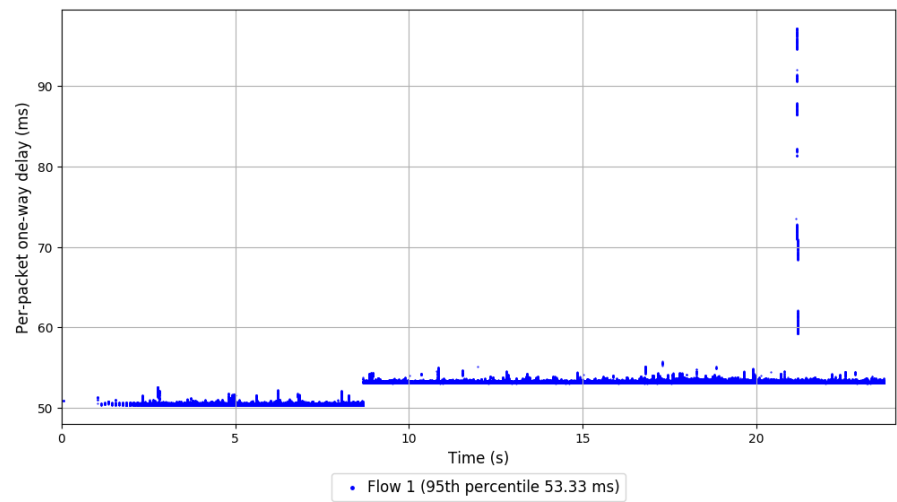
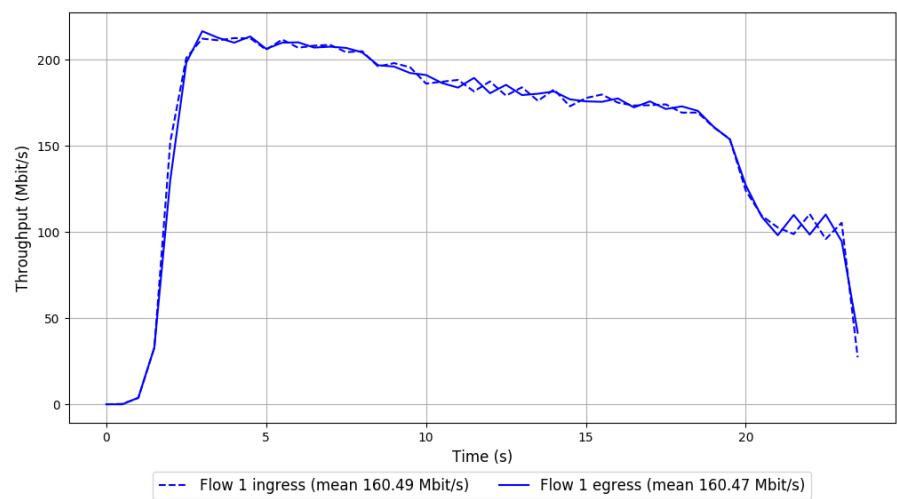


Run 8: Statistics of Indigo-calib

Start at: 2017-11-16 04:05:59

End at: 2017-11-16 04:06:29

Run 8: Report of Indigo-calib — Data Link



Run 9: Statistics of Indigo-calib

Start at: 2017-11-16 04:15:47

End at: 2017-11-16 04:16:17

Below is generated by plot.py at 2017-11-16 05:57:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 184.39 Mbit/s

95th percentile per-packet one-way delay: 53.845 ms

Loss rate: 0.00%

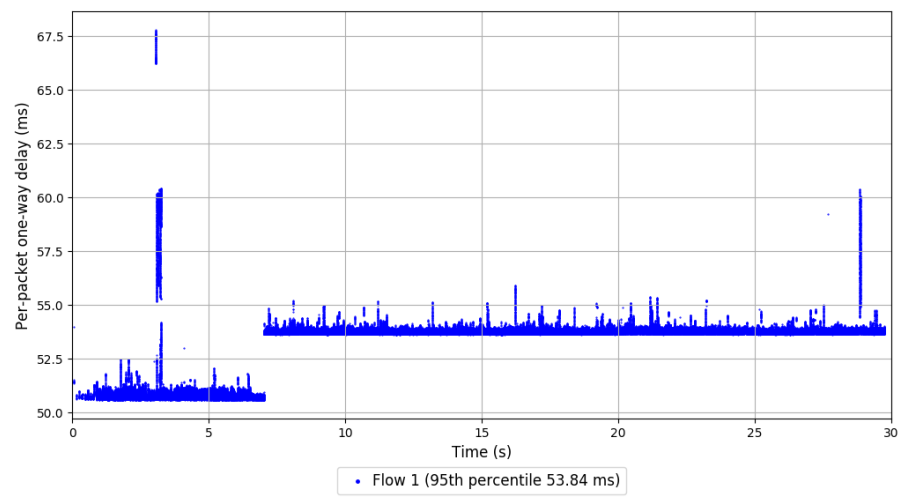
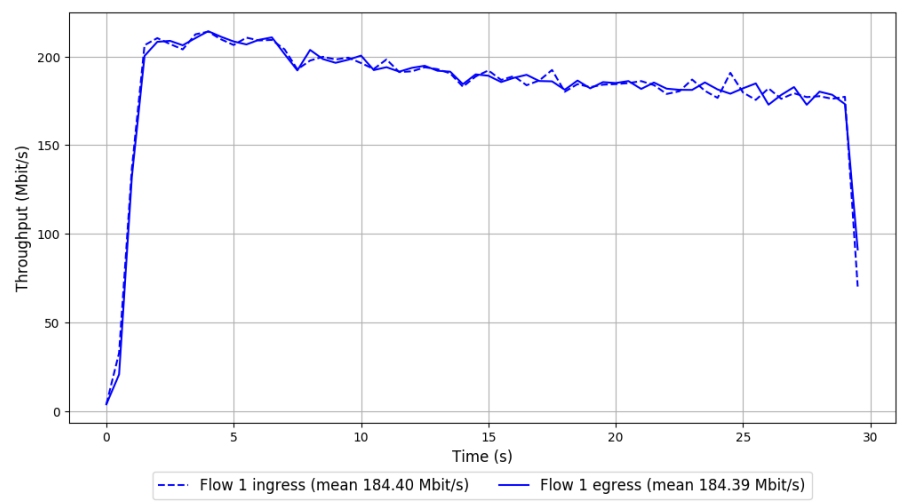
-- Flow 1:

Average throughput: 184.39 Mbit/s

95th percentile per-packet one-way delay: 53.845 ms

Loss rate: 0.00%

Run 9: Report of Indigo-calib — Data Link



Run 10: Statistics of Indigo-calib

Start at: 2017-11-16 04:26:09

End at: 2017-11-16 04:26:39

Below is generated by plot.py at 2017-11-16 05:57:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 179.88 Mbit/s

95th percentile per-packet one-way delay: 53.318 ms

Loss rate: 0.15%

-- Flow 1:

Average throughput: 179.88 Mbit/s

95th percentile per-packet one-way delay: 53.318 ms

Loss rate: 0.15%

Run 10: Report of Indigo-calib — Data Link

