

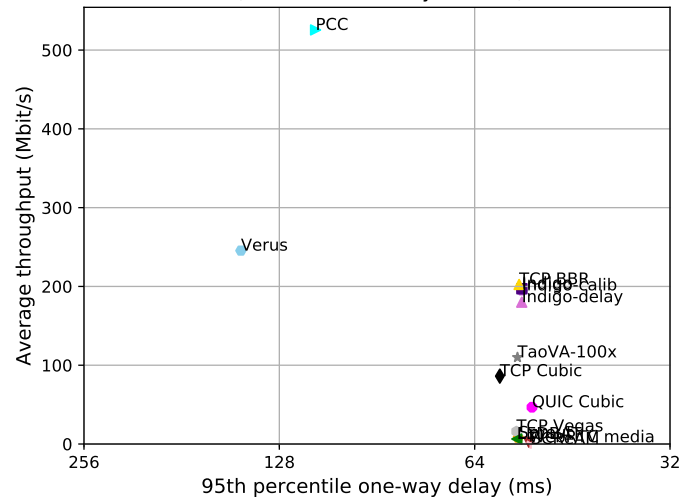
Pantheon Report

Generated at 2017-09-21 18:34:32 (UTC).
Data path: GCE Tokyo Ethernet (*remote*) → GCE Sydney Ethernet (*local*).
Repeated the test of 14 congestion control schemes 10 times.
Each test lasted for 30 seconds running 1 flow.
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).
Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo_fast**).

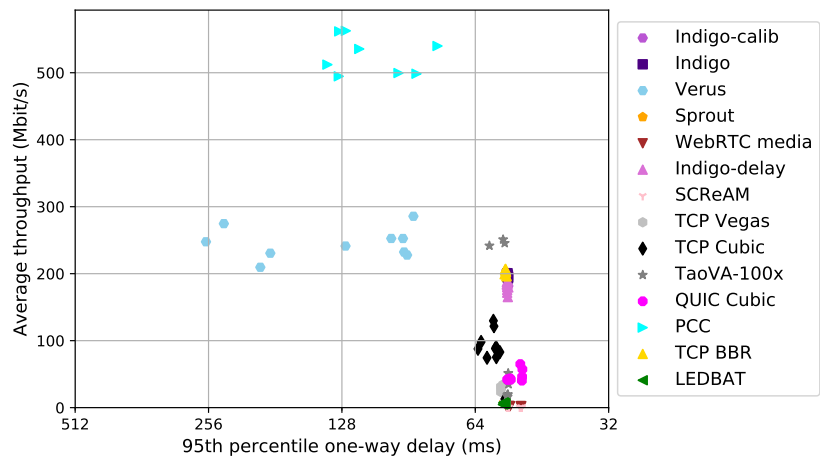
Git summary:

```
branch: indigos @ 46c7c812d4acb71eea4f5fb0b03b3657cea3062f
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 @ f1a14bffe749737437f61b1eaeeb30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/webrtc @ a488197ddd041ace68a42849b2540ad834825f42
```

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



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



scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	10	202.54	54.66	0.36
TCP Cubic	10	86.15	58.54	0.33
LEDBAT	10	6.37	55.12	1.04
PCC	8	525.56	112.54	1.18
QUIC Cubic	9	46.68	52.23	0.52
SCReAM	9	0.21	52.47	0.35
WebRTC media	10	2.24	52.80	0.39
Sprout	10	7.67	54.83	0.71
TaoVA-100x	8	109.97	54.98	0.30
TCP Vegas	10	16.01	55.19	0.43
Verus	10	245.46	146.71	3.28
Indigo	10	197.08	54.12	0.36
Indigo-calib	9	195.03	54.12	0.36
Indigo-delay	10	180.08	54.16	0.36

Run 1: Statistics of TCP BBR

Start at: 2017-09-21 14:32:46

End at: 2017-09-21 14:33:16

Below is generated by plot.py at 2017-09-21 17:59:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 207.29 Mbit/s

95th percentile per-packet one-way delay: 54.672 ms

Loss rate: 0.30%

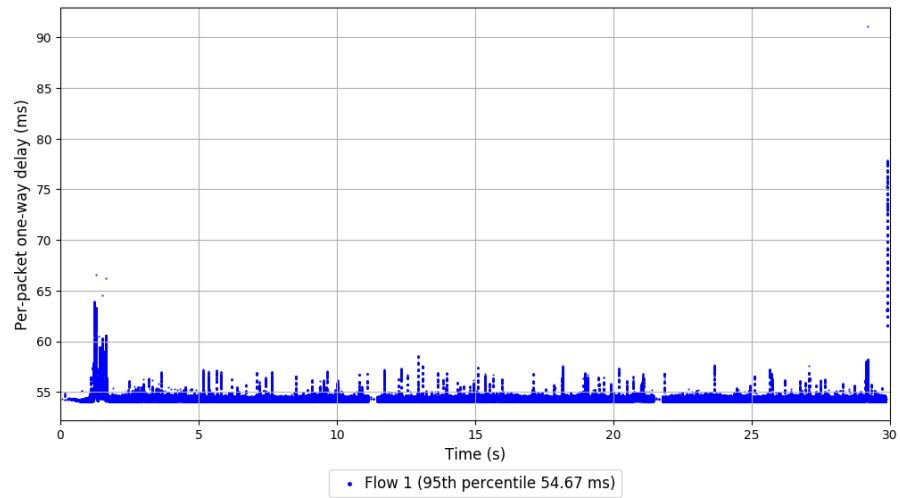
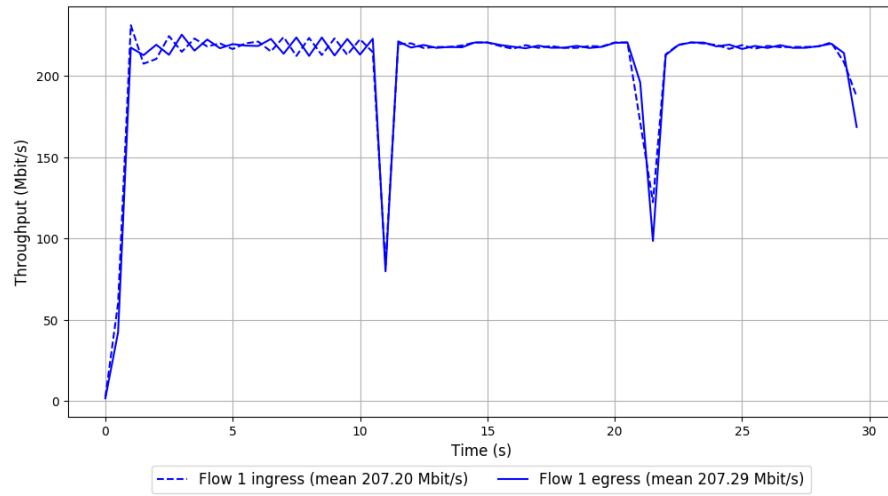
-- Flow 1:

Average throughput: 207.29 Mbit/s

95th percentile per-packet one-way delay: 54.672 ms

Loss rate: 0.30%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2017-09-21 14:43:17

End at: 2017-09-21 14:43:47

Below is generated by plot.py at 2017-09-21 17:59:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 204.73 Mbit/s

95th percentile per-packet one-way delay: 54.680 ms

Loss rate: 0.37%

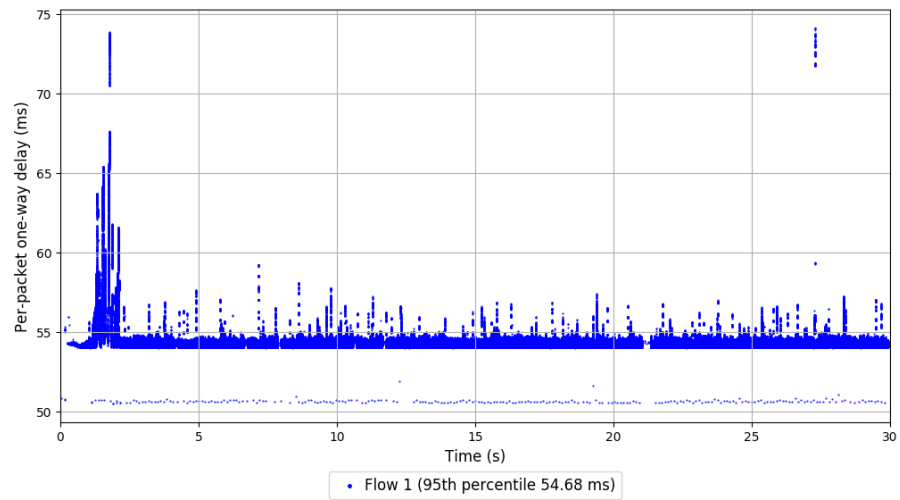
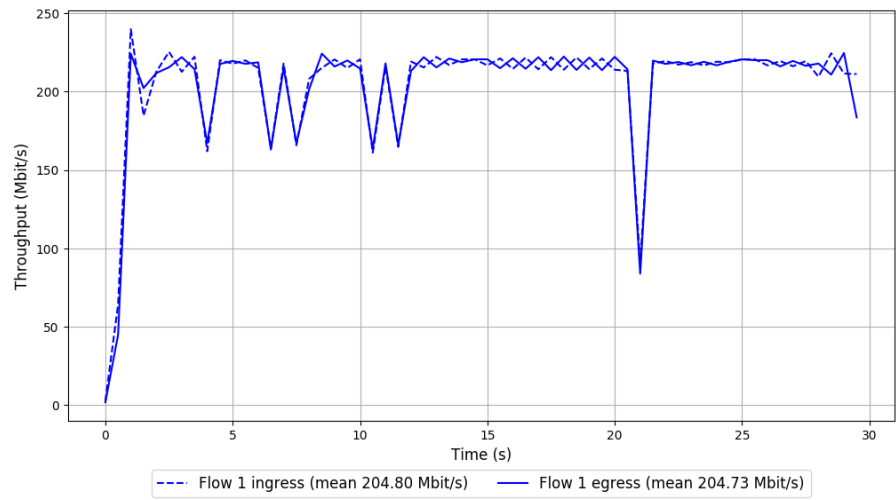
-- Flow 1:

Average throughput: 204.73 Mbit/s

95th percentile per-packet one-way delay: 54.680 ms

Loss rate: 0.37%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2017-09-21 14:53:45

End at: 2017-09-21 14:54:15

Below is generated by plot.py at 2017-09-21 17:59:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 205.67 Mbit/s

95th percentile per-packet one-way delay: 54.655 ms

Loss rate: 0.26%

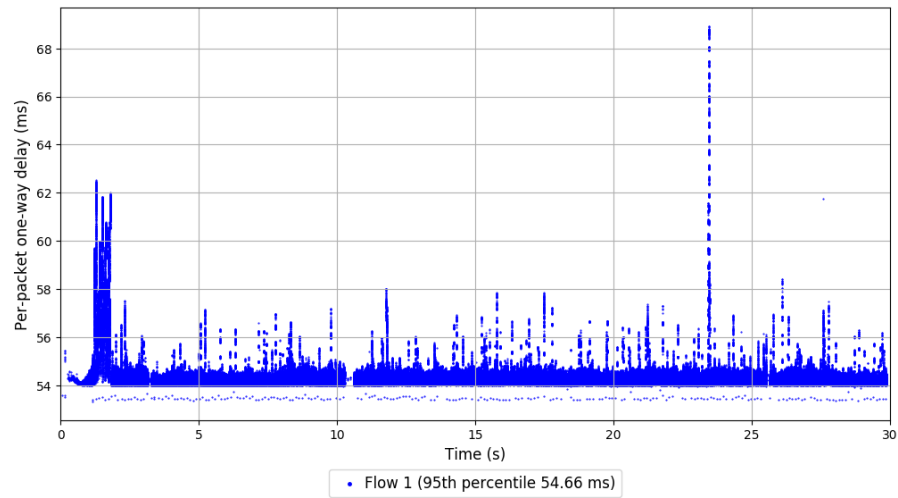
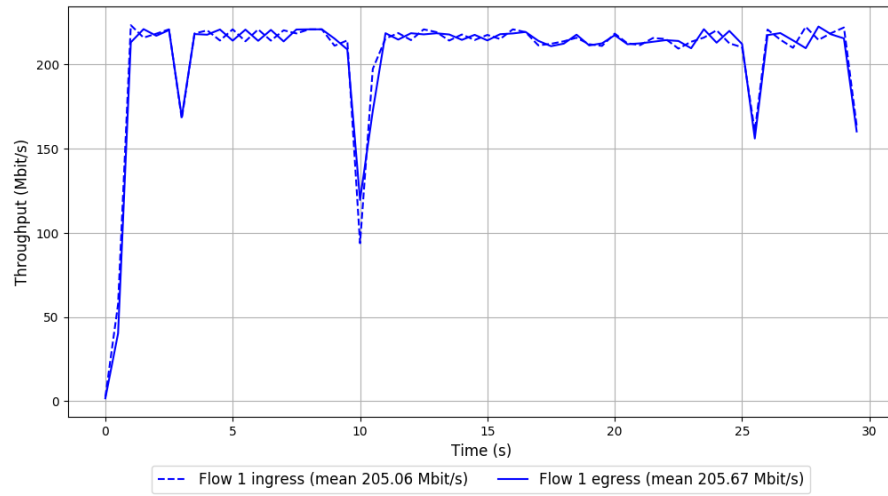
-- Flow 1:

Average throughput: 205.67 Mbit/s

95th percentile per-packet one-way delay: 54.655 ms

Loss rate: 0.26%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2017-09-21 15:04:33

End at: 2017-09-21 15:05:03

Below is generated by plot.py at 2017-09-21 17:59:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 201.40 Mbit/s

95th percentile per-packet one-way delay: 54.651 ms

Loss rate: 0.43%

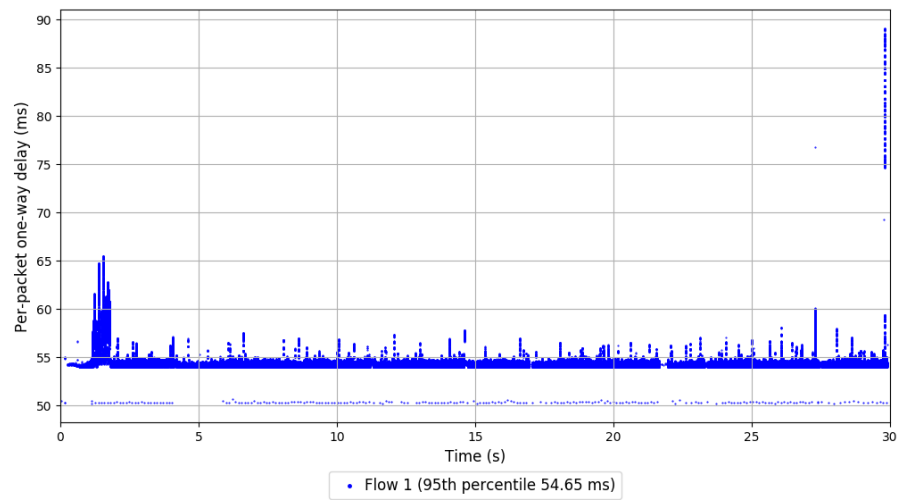
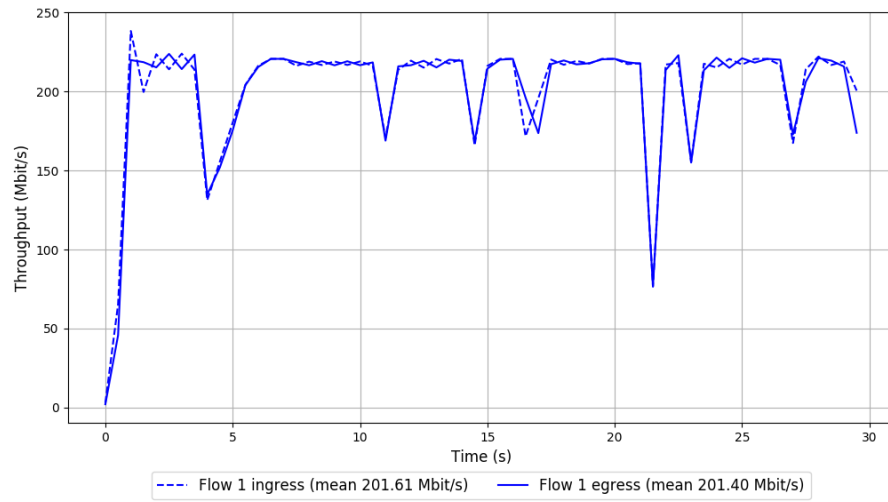
-- Flow 1:

Average throughput: 201.40 Mbit/s

95th percentile per-packet one-way delay: 54.651 ms

Loss rate: 0.43%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2017-09-21 15:15:18

End at: 2017-09-21 15:15:48

Below is generated by plot.py at 2017-09-21 17:59:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 206.49 Mbit/s

95th percentile per-packet one-way delay: 54.814 ms

Loss rate: 0.40%

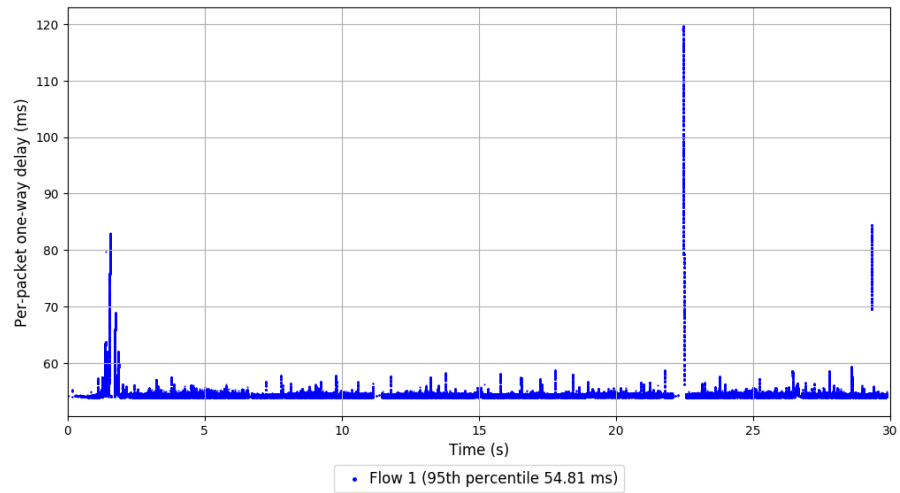
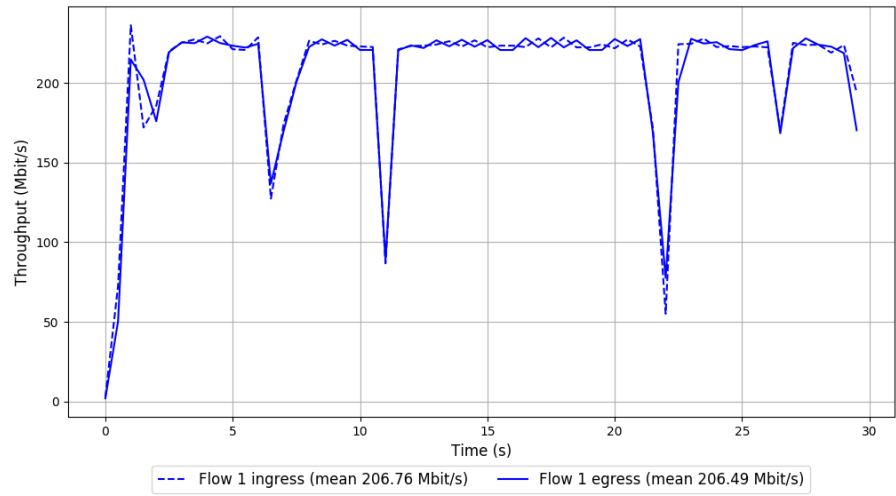
-- Flow 1:

Average throughput: 206.49 Mbit/s

95th percentile per-packet one-way delay: 54.814 ms

Loss rate: 0.40%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2017-09-21 15:25:04

End at: 2017-09-21 15:25:34

Below is generated by plot.py at 2017-09-21 17:59:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 202.98 Mbit/s

95th percentile per-packet one-way delay: 54.522 ms

Loss rate: 0.38%

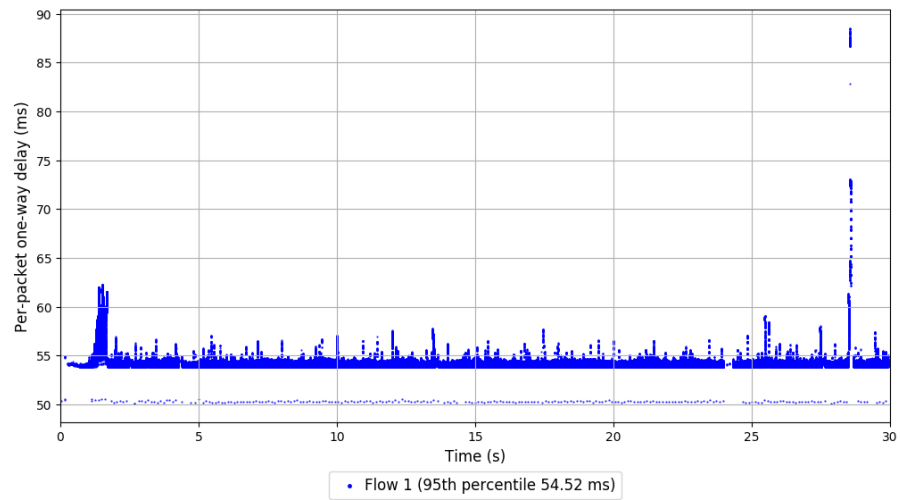
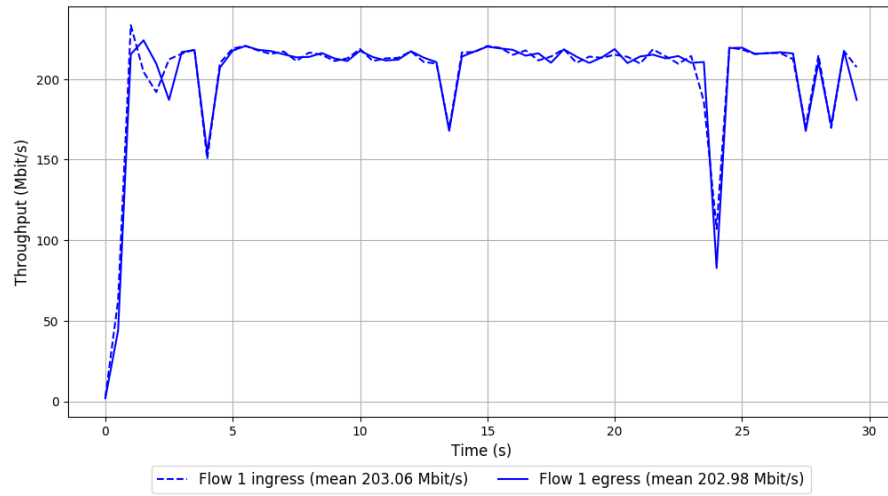
-- Flow 1:

Average throughput: 202.98 Mbit/s

95th percentile per-packet one-way delay: 54.522 ms

Loss rate: 0.38%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2017-09-21 15:35:27

End at: 2017-09-21 15:35:57

Below is generated by plot.py at 2017-09-21 17:59:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 199.15 Mbit/s

95th percentile per-packet one-way delay: 54.952 ms

Loss rate: 0.43%

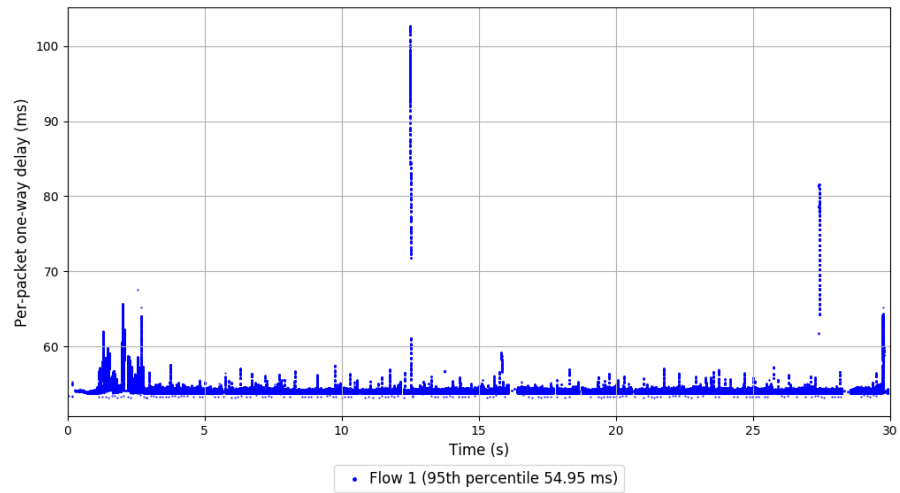
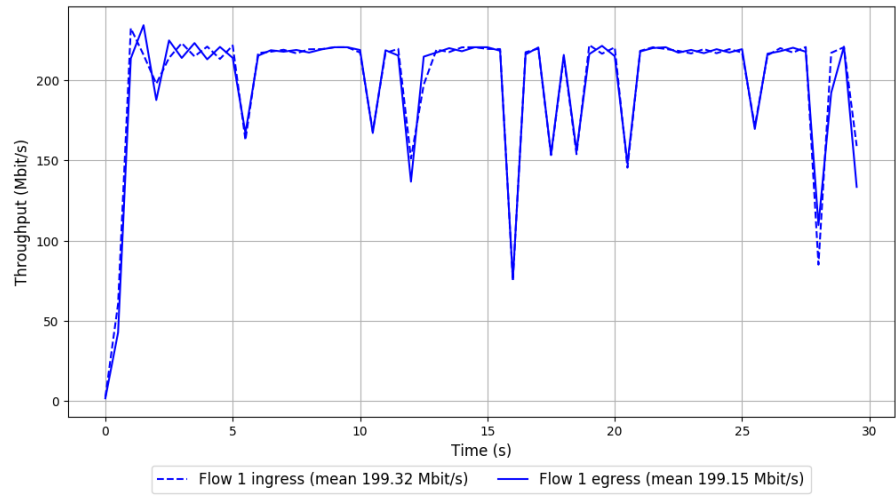
-- Flow 1:

Average throughput: 199.15 Mbit/s

95th percentile per-packet one-way delay: 54.952 ms

Loss rate: 0.43%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2017-09-21 15:45:53

End at: 2017-09-21 15:46:23

Below is generated by plot.py at 2017-09-21 17:59:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 195.96 Mbit/s

95th percentile per-packet one-way delay: 54.400 ms

Loss rate: 0.39%

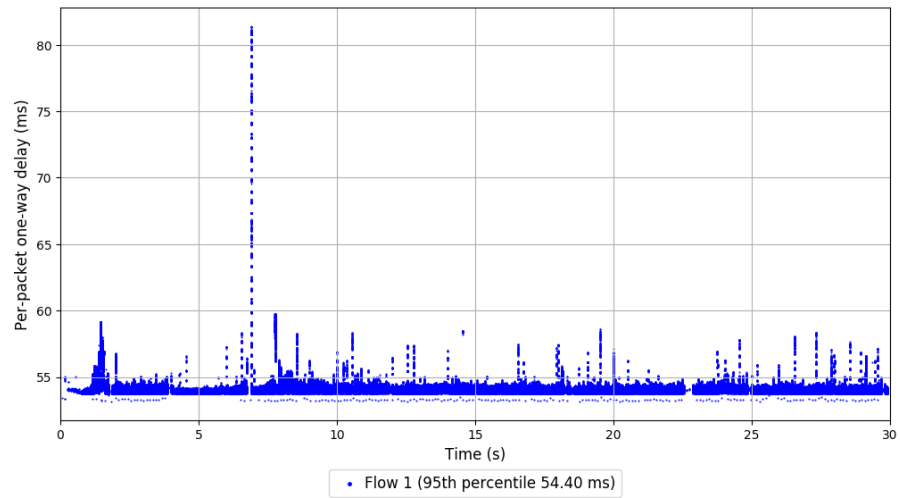
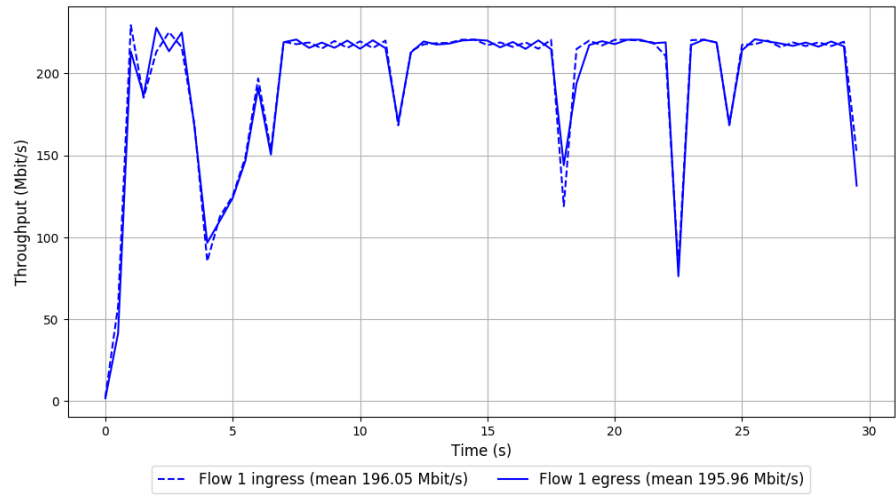
-- Flow 1:

Average throughput: 195.96 Mbit/s

95th percentile per-packet one-way delay: 54.400 ms

Loss rate: 0.39%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2017-09-21 15:55:50

End at: 2017-09-21 15:56:20

Below is generated by plot.py at 2017-09-21 18:03:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 204.86 Mbit/s

95th percentile per-packet one-way delay: 54.819 ms

Loss rate: 0.43%

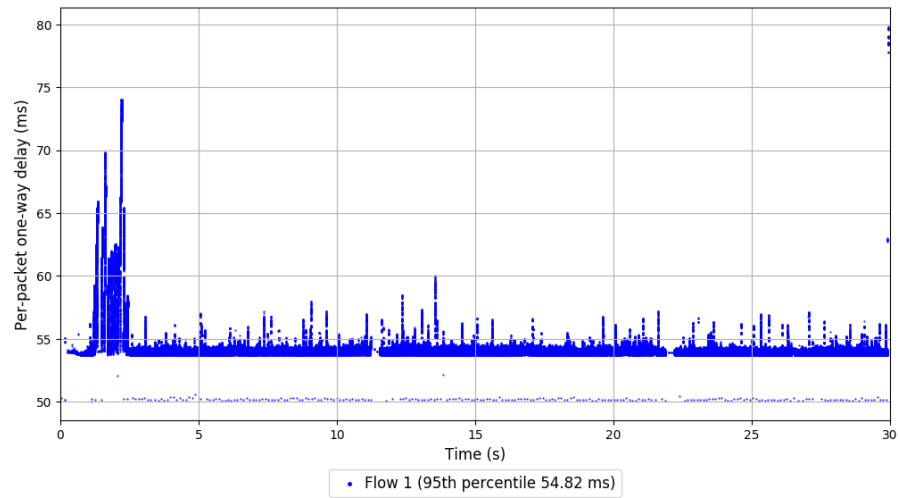
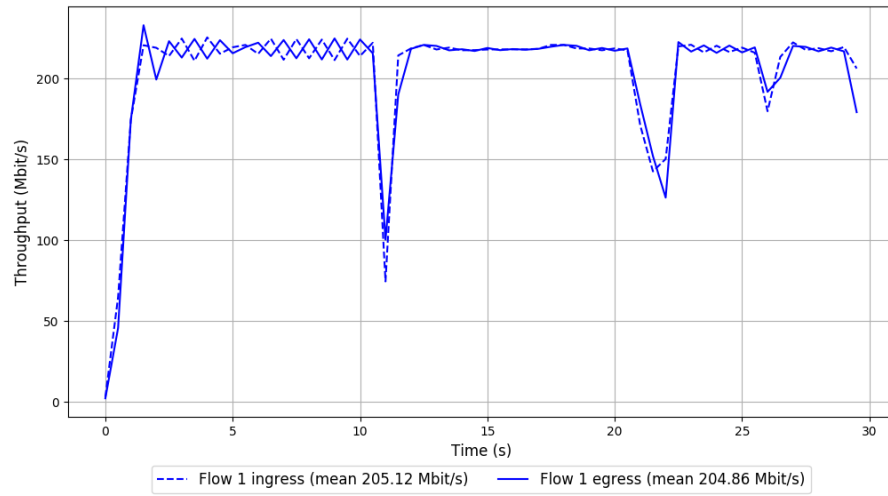
-- Flow 1:

Average throughput: 204.86 Mbit/s

95th percentile per-packet one-way delay: 54.819 ms

Loss rate: 0.43%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2017-09-21 16:06:13

End at: 2017-09-21 16:06:43

Below is generated by plot.py at 2017-09-21 18:03:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 196.86 Mbit/s

95th percentile per-packet one-way delay: 54.439 ms

Loss rate: 0.18%

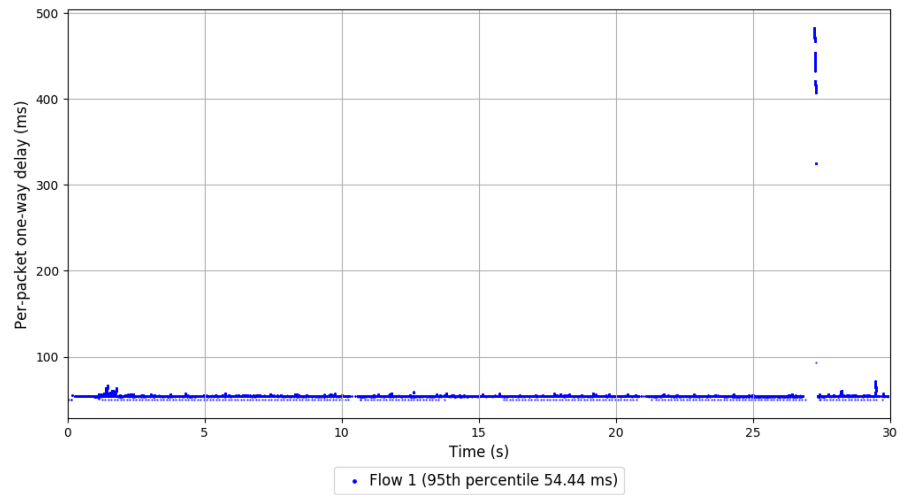
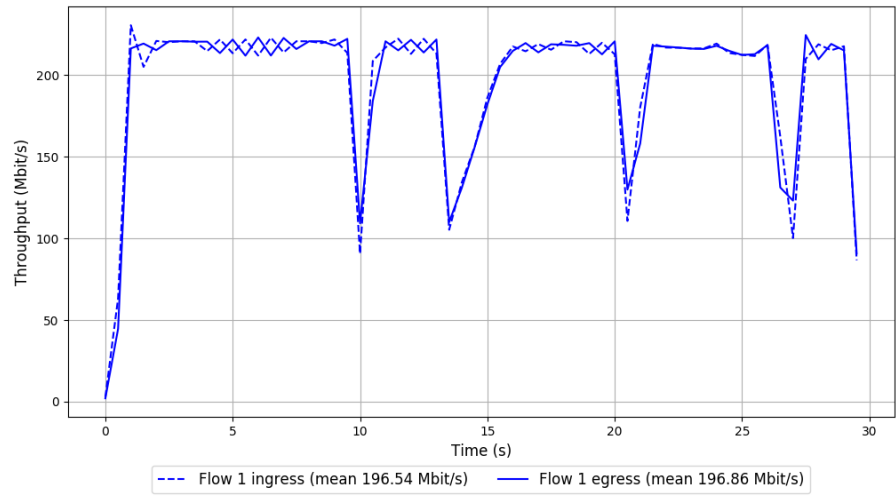
-- Flow 1:

Average throughput: 196.86 Mbit/s

95th percentile per-packet one-way delay: 54.439 ms

Loss rate: 0.18%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2017-09-21 14:31:26

End at: 2017-09-21 14:31:56

Below is generated by plot.py at 2017-09-21 18:03:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 90.38 Mbit/s

95th percentile per-packet one-way delay: 57.437 ms

Loss rate: 0.40%

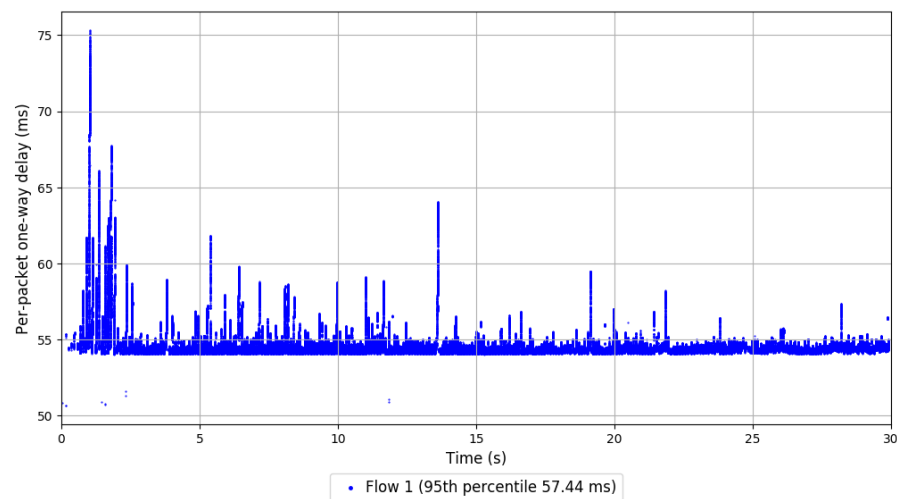
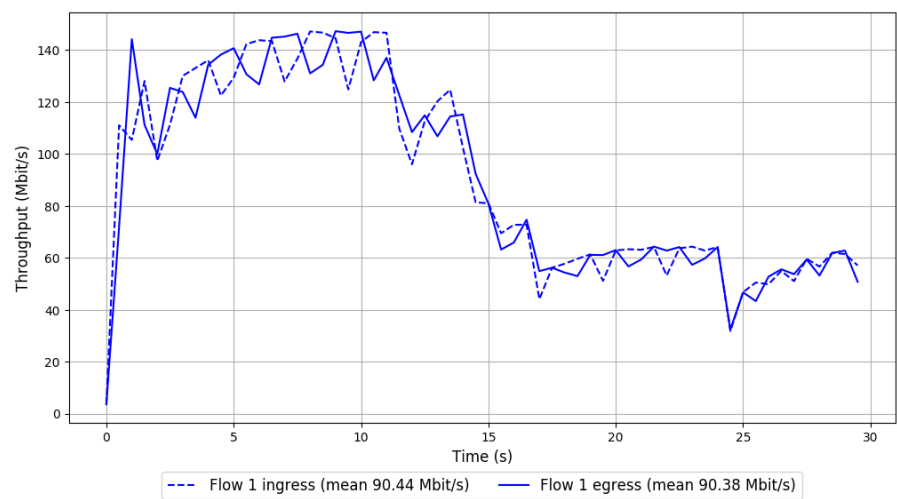
-- Flow 1:

Average throughput: 90.38 Mbit/s

95th percentile per-packet one-way delay: 57.437 ms

Loss rate: 0.40%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2017-09-21 14:41:55

End at: 2017-09-21 14:42:25

Below is generated by plot.py at 2017-09-21 18:03:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 129.70 Mbit/s

95th percentile per-packet one-way delay: 58.250 ms

Loss rate: 0.15%

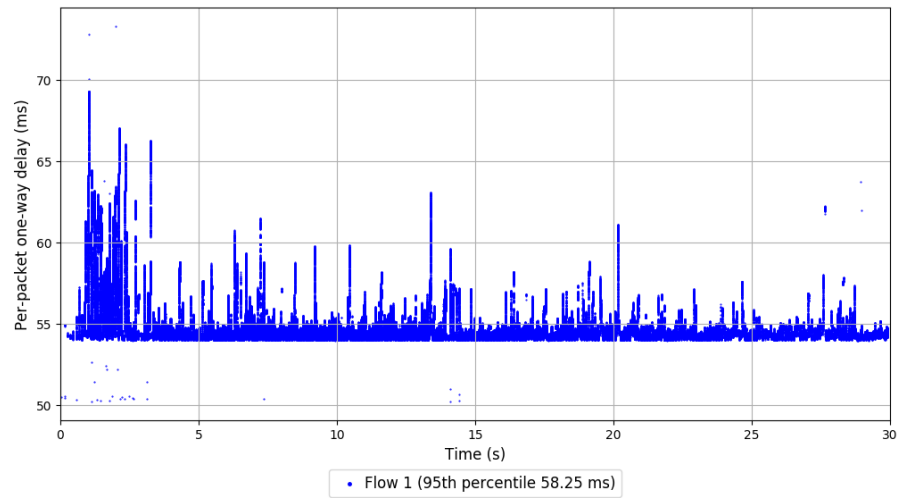
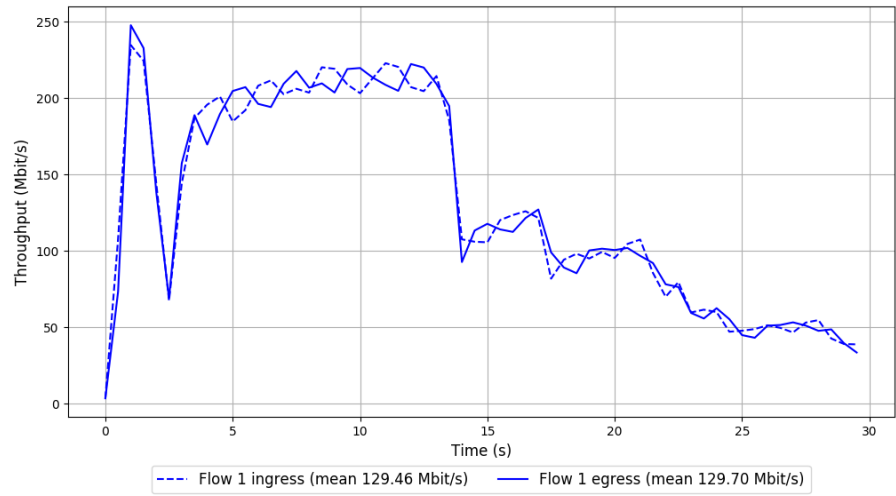
-- Flow 1:

Average throughput: 129.70 Mbit/s

95th percentile per-packet one-way delay: 58.250 ms

Loss rate: 0.15%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2017-09-21 14:52:24

End at: 2017-09-21 14:52:54

Below is generated by plot.py at 2017-09-21 18:03:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 98.12 Mbit/s

95th percentile per-packet one-way delay: 62.098 ms

Loss rate: 0.34%

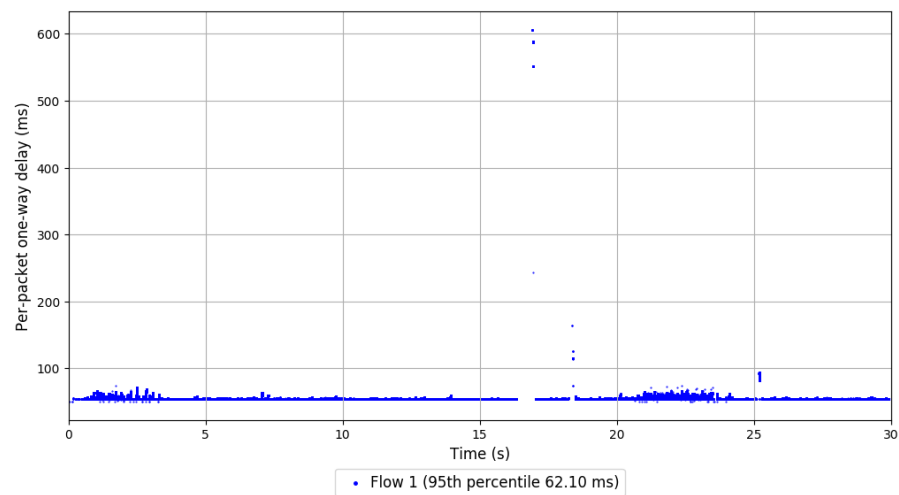
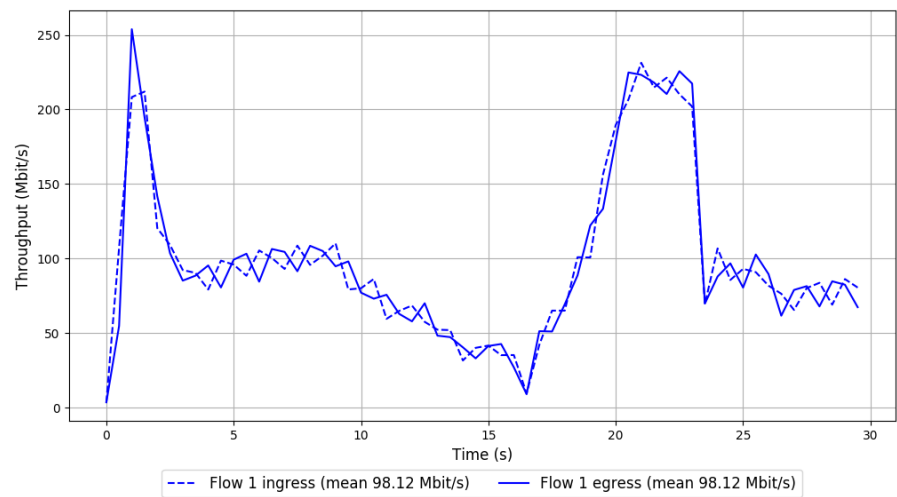
-- Flow 1:

Average throughput: 98.12 Mbit/s

95th percentile per-packet one-way delay: 62.098 ms

Loss rate: 0.34%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2017-09-21 15:03:11

End at: 2017-09-21 15:03:41

Below is generated by plot.py at 2017-09-21 18:03:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 121.55 Mbit/s

95th percentile per-packet one-way delay: 58.076 ms

Loss rate: 0.29%

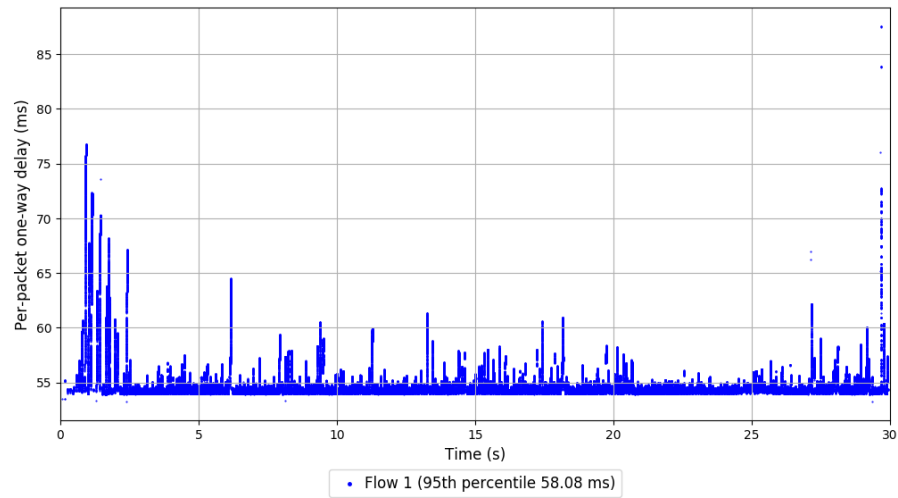
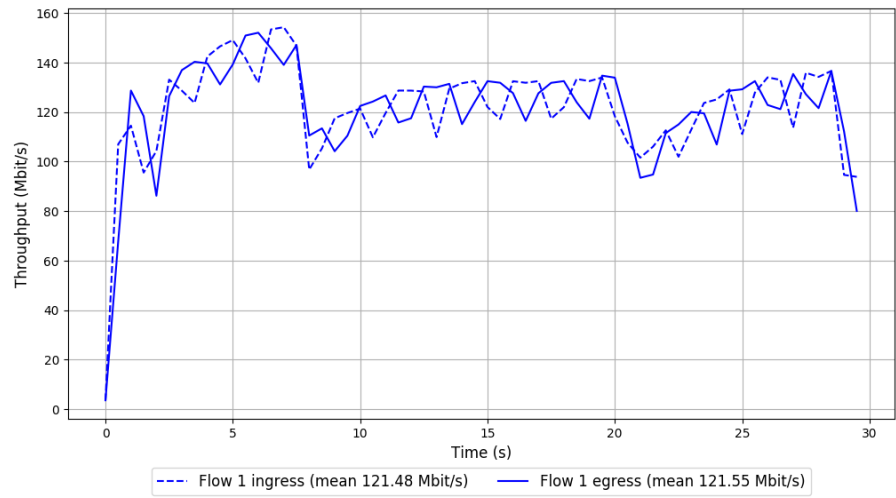
-- Flow 1:

Average throughput: 121.55 Mbit/s

95th percentile per-packet one-way delay: 58.076 ms

Loss rate: 0.29%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2017-09-21 15:13:58

End at: 2017-09-21 15:14:28

Below is generated by plot.py at 2017-09-21 18:03:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.93 Mbit/s

95th percentile per-packet one-way delay: 56.318 ms

Loss rate: 0.14%

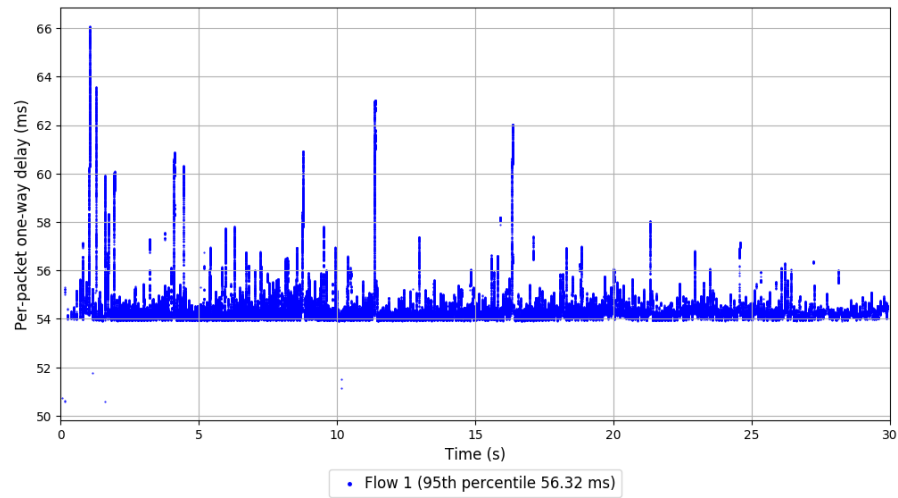
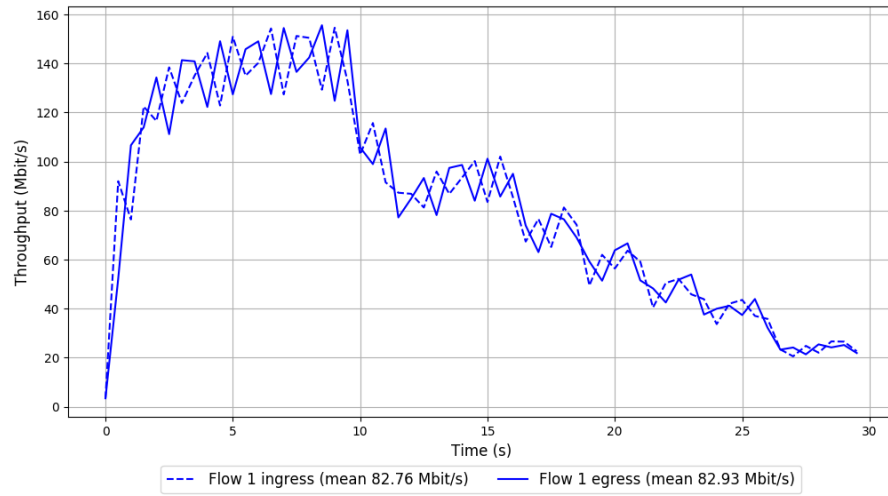
-- Flow 1:

Average throughput: 82.93 Mbit/s

95th percentile per-packet one-way delay: 56.318 ms

Loss rate: 0.14%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2017-09-21 15:23:44

End at: 2017-09-21 15:24:14

Below is generated by plot.py at 2017-09-21 18:03:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 88.22 Mbit/s

95th percentile per-packet one-way delay: 57.646 ms

Loss rate: 0.20%

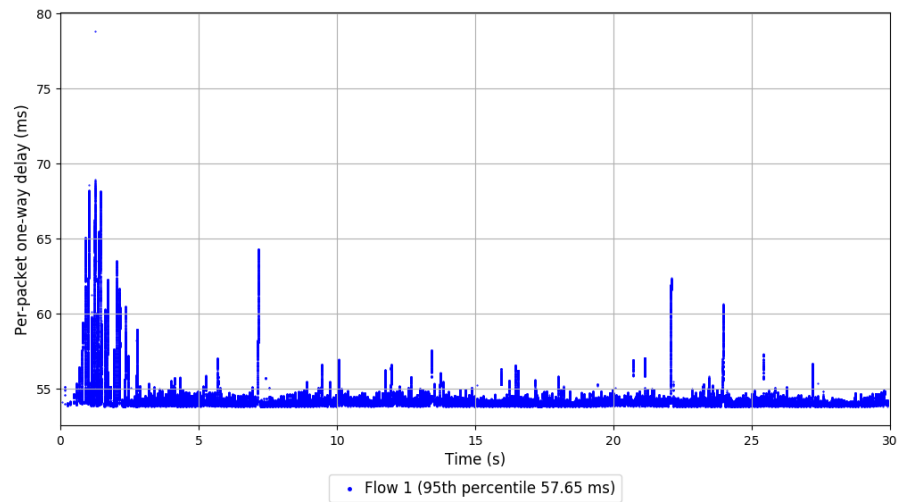
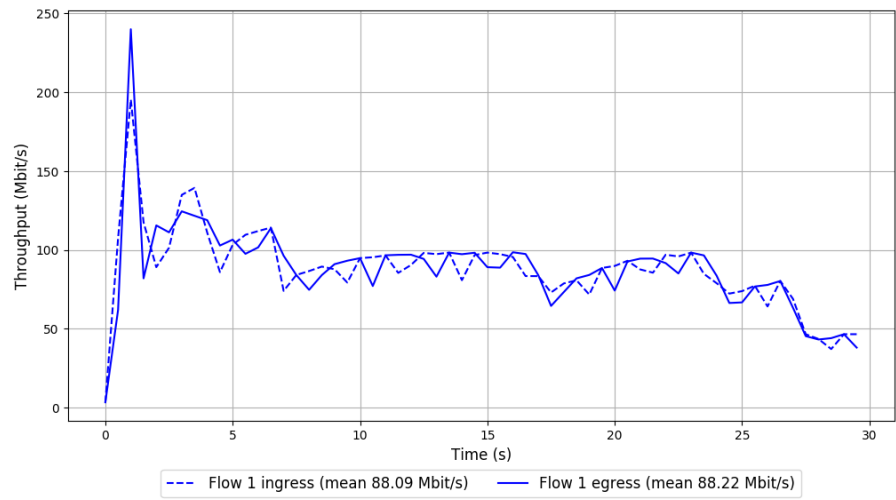
-- Flow 1:

Average throughput: 88.22 Mbit/s

95th percentile per-packet one-way delay: 57.646 ms

Loss rate: 0.20%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2017-09-21 15:34:07

End at: 2017-09-21 15:34:37

Below is generated by plot.py at 2017-09-21 18:03:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.76 Mbit/s

95th percentile per-packet one-way delay: 63.112 ms

Loss rate: 0.21%

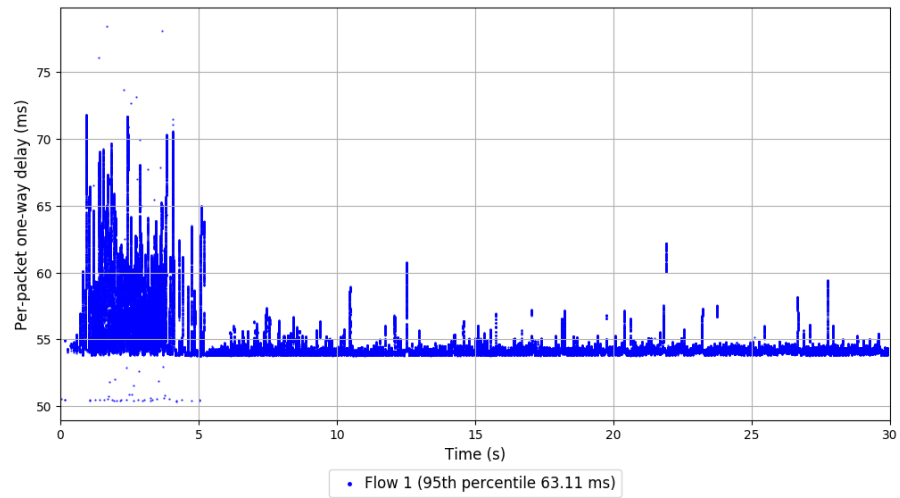
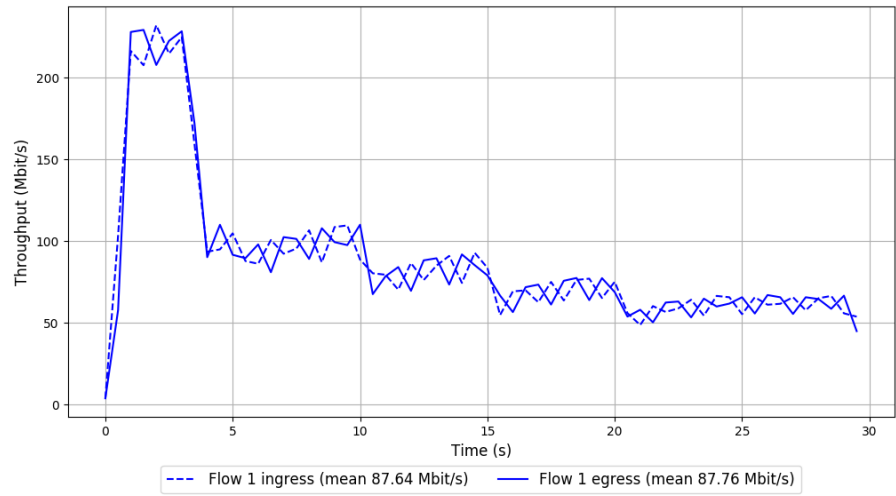
-- Flow 1:

Average throughput: 87.76 Mbit/s

95th percentile per-packet one-way delay: 63.112 ms

Loss rate: 0.21%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2017-09-21 15:44:37

End at: 2017-09-21 15:45:07

Below is generated by plot.py at 2017-09-21 18:03:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.09 Mbit/s

95th percentile per-packet one-way delay: 54.860 ms

Loss rate: 1.07%

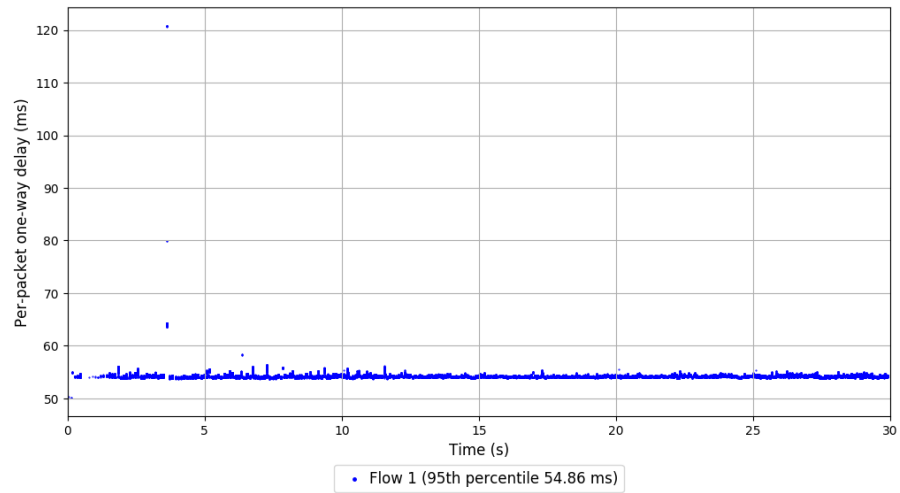
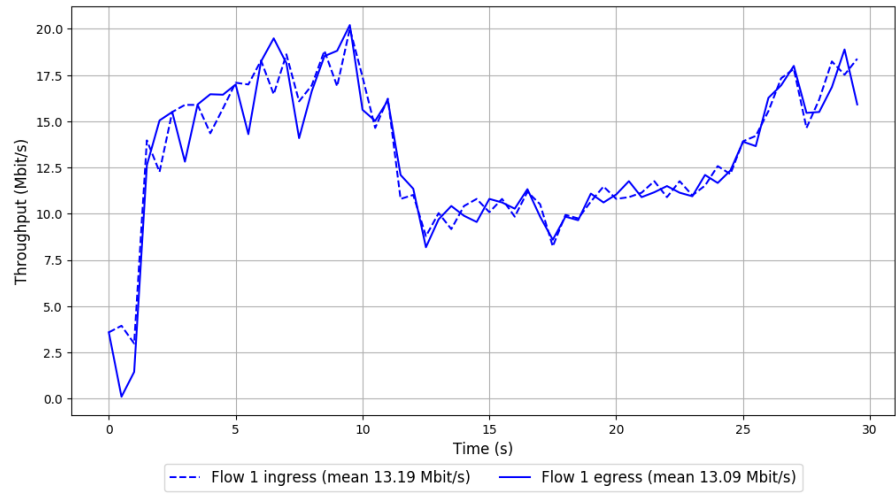
-- Flow 1:

Average throughput: 13.09 Mbit/s

95th percentile per-packet one-way delay: 54.860 ms

Loss rate: 1.07%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2017-09-21 15:54:30

End at: 2017-09-21 15:55:00

Below is generated by plot.py at 2017-09-21 18:03:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.43 Mbit/s

95th percentile per-packet one-way delay: 60.206 ms

Loss rate: 0.24%

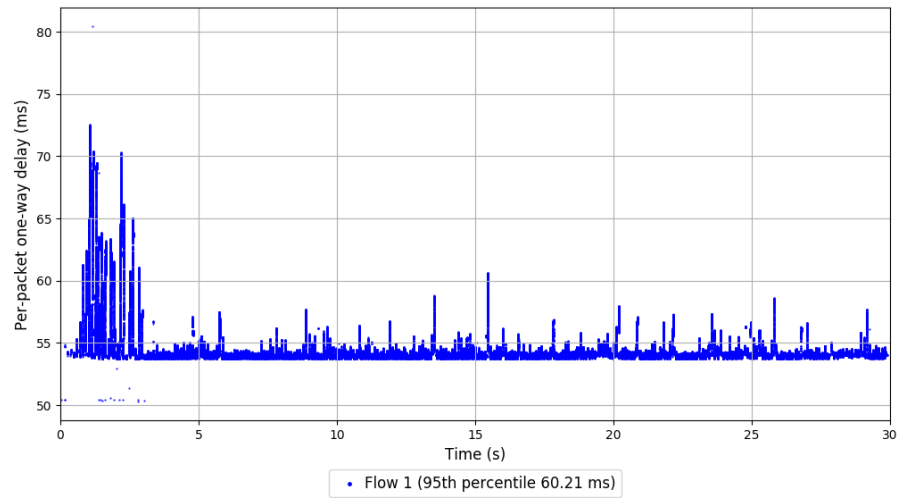
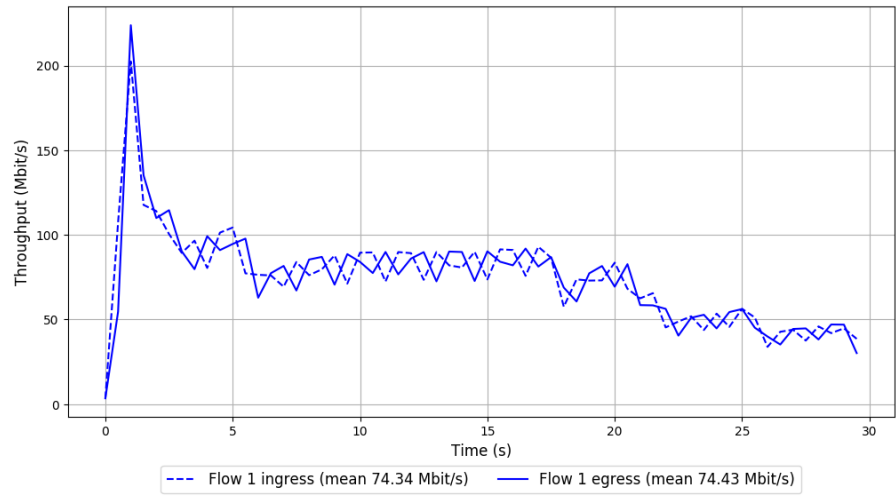
-- Flow 1:

Average throughput: 74.43 Mbit/s

95th percentile per-packet one-way delay: 60.206 ms

Loss rate: 0.24%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2017-09-21 16:04:54

End at: 2017-09-21 16:05:24

Below is generated by plot.py at 2017-09-21 18:03:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.32 Mbit/s

95th percentile per-packet one-way delay: 57.361 ms

Loss rate: 0.25%

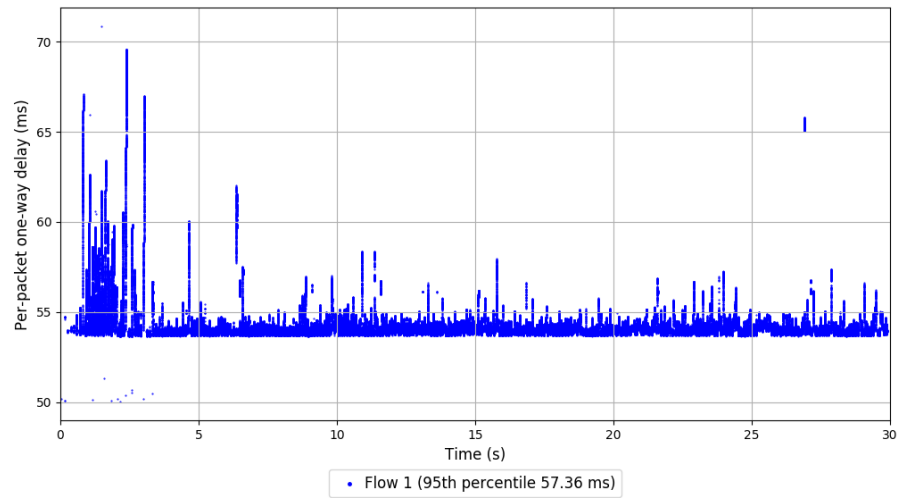
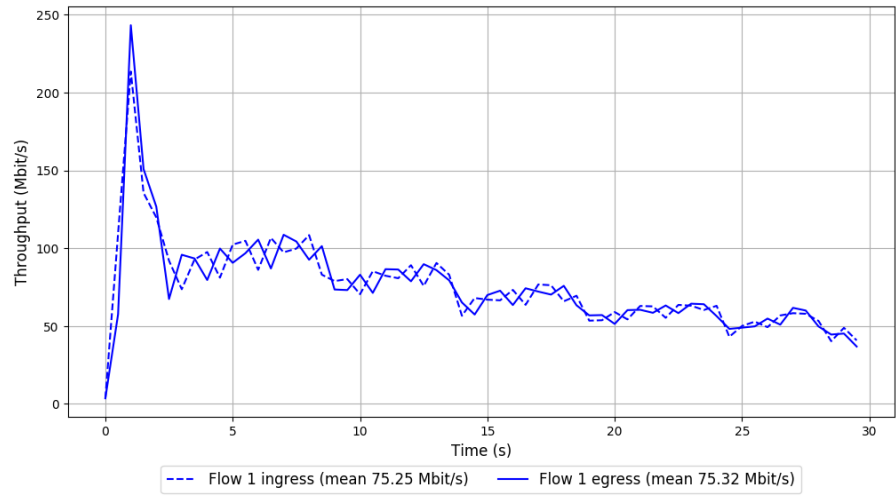
-- Flow 1:

Average throughput: 75.32 Mbit/s

95th percentile per-packet one-way delay: 57.361 ms

Loss rate: 0.25%

Run 10: Report of TCP Cubic — Data Link

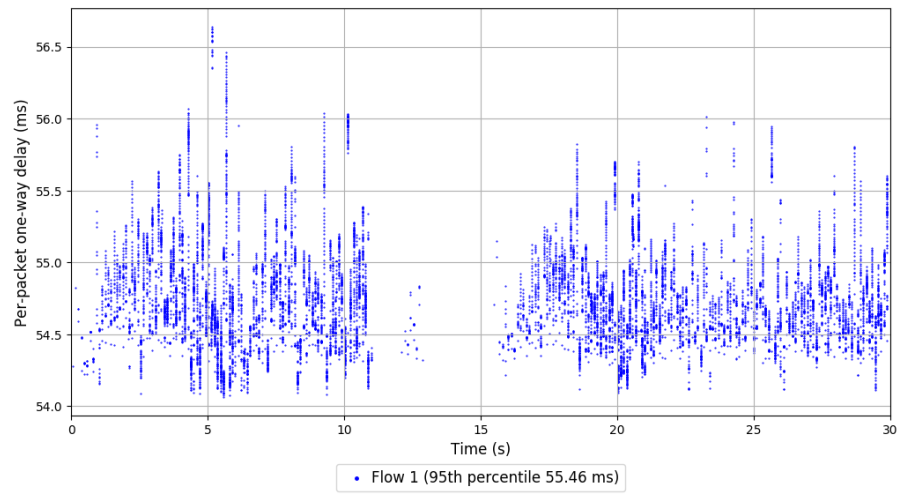
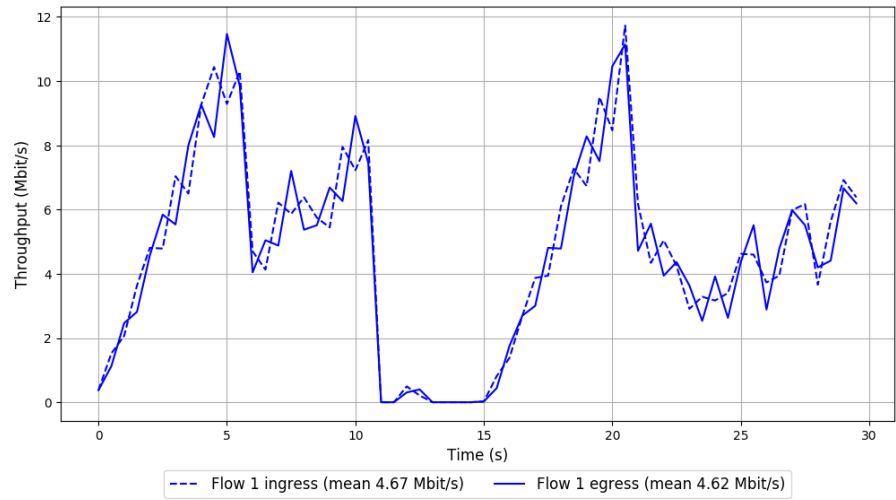


```
Run 1: Statistics of LEDBAT

Start at: 2017-09-21 14:25:50
End at: 2017-09-21 14:26:20

# Below is generated by plot.py at 2017-09-21 18:03:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 4.62 Mbit/s
95th percentile per-packet one-way delay: 55.463 ms
Loss rate: 1.39%
-- Flow 1:
Average throughput: 4.62 Mbit/s
95th percentile per-packet one-way delay: 55.463 ms
Loss rate: 1.39%
```

Run 1: Report of LEDBAT — Data Link

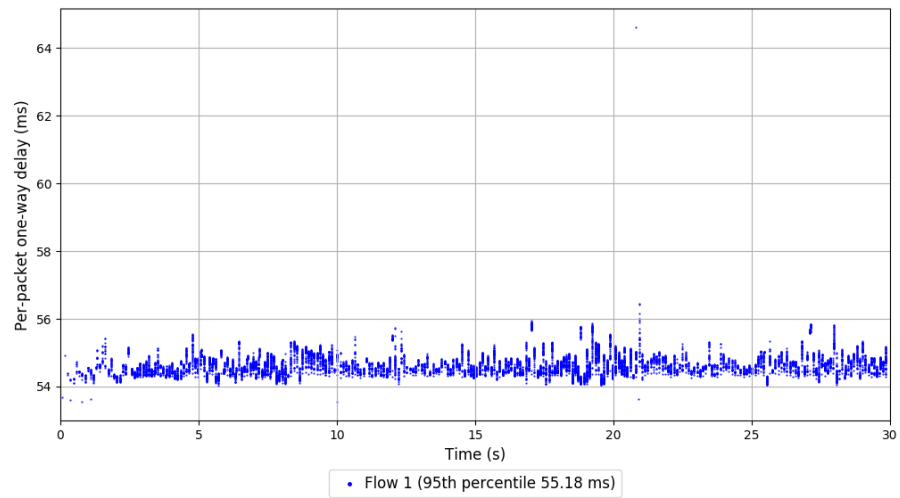
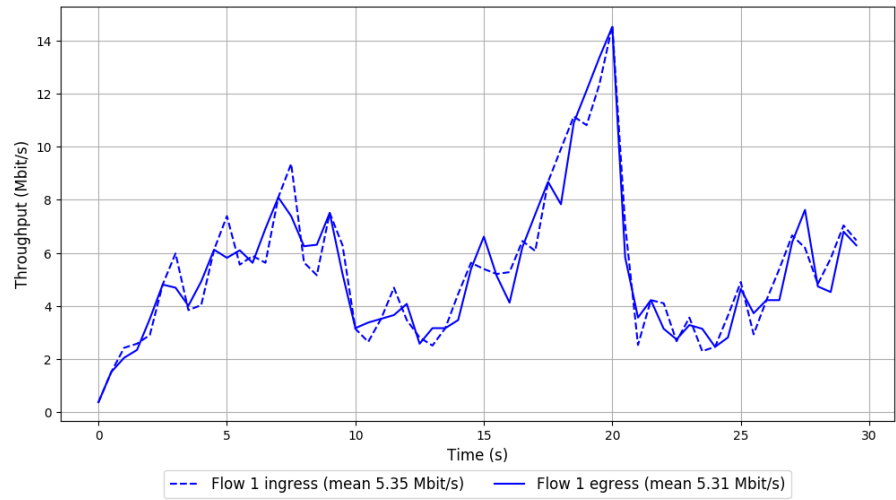


```
Run 2: Statistics of LEDBAT

Start at: 2017-09-21 14:36:42
End at: 2017-09-21 14:37:12

# Below is generated by plot.py at 2017-09-21 18:03:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 5.31 Mbit/s
95th percentile per-packet one-way delay: 55.178 ms
Loss rate: 1.08%
-- Flow 1:
Average throughput: 5.31 Mbit/s
95th percentile per-packet one-way delay: 55.178 ms
Loss rate: 1.08%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2017-09-21 14:47:09

End at: 2017-09-21 14:47:39

Below is generated by plot.py at 2017-09-21 18:03:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.84 Mbit/s

95th percentile per-packet one-way delay: 55.222 ms

Loss rate: 1.67%

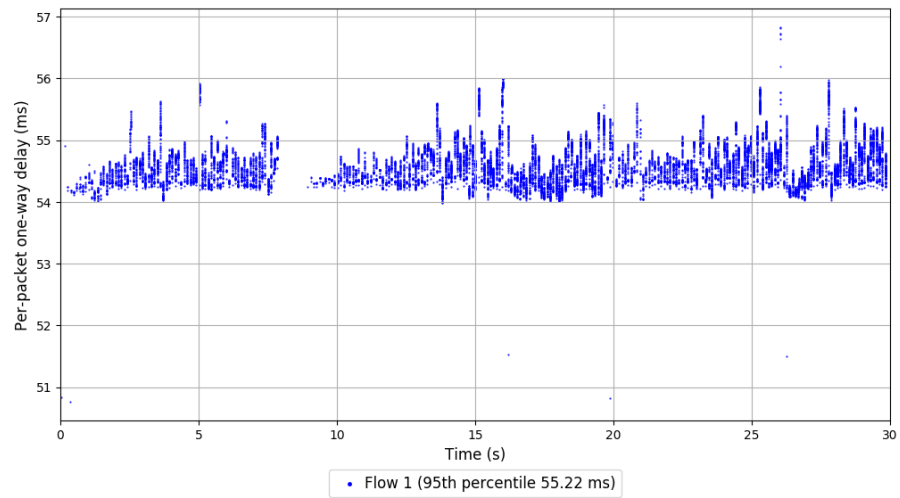
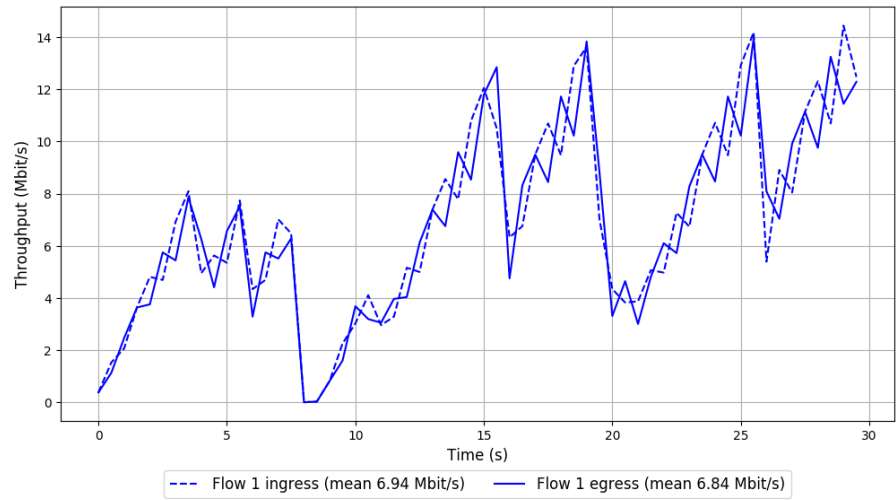
-- Flow 1:

Average throughput: 6.84 Mbit/s

95th percentile per-packet one-way delay: 55.222 ms

Loss rate: 1.67%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2017-09-21 14:57:35

End at: 2017-09-21 14:58:05

Below is generated by plot.py at 2017-09-21 18:03:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.25 Mbit/s

95th percentile per-packet one-way delay: 55.148 ms

Loss rate: 0.91%

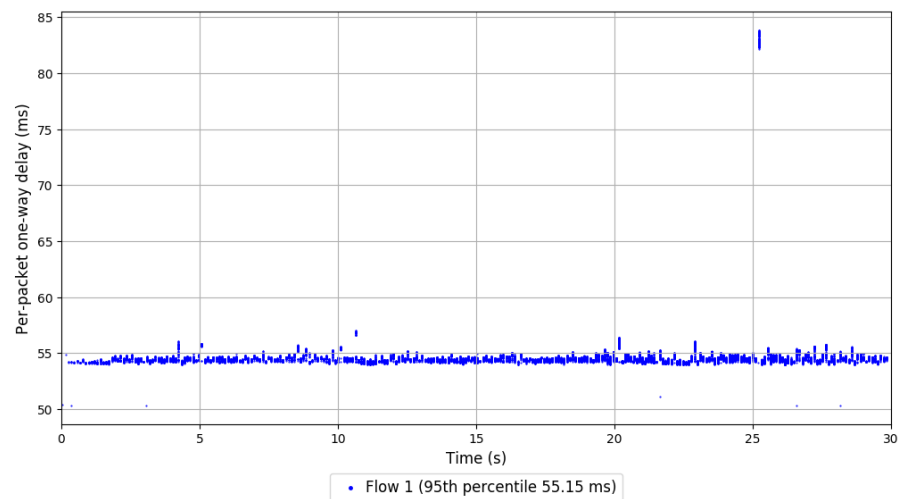
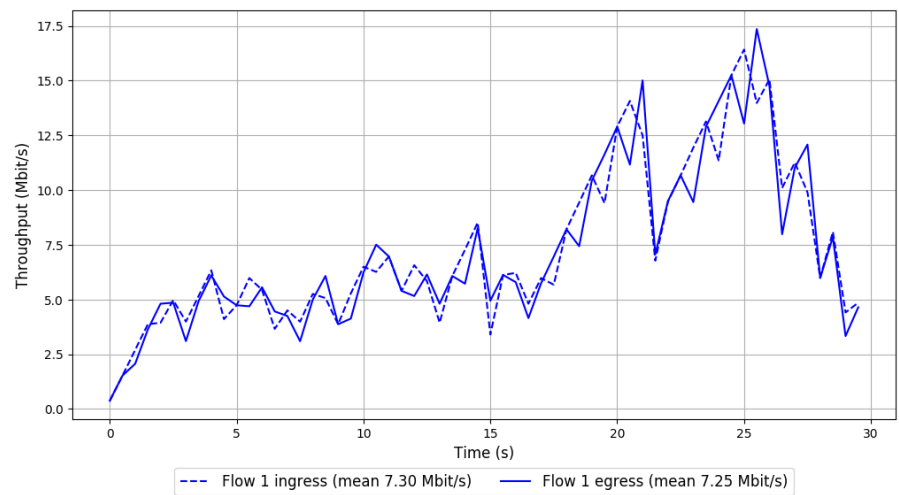
-- Flow 1:

Average throughput: 7.25 Mbit/s

95th percentile per-packet one-way delay: 55.148 ms

Loss rate: 0.91%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2017-09-21 15:08:23

End at: 2017-09-21 15:08:53

Below is generated by plot.py at 2017-09-21 18:03:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.73 Mbit/s

95th percentile per-packet one-way delay: 55.282 ms

Loss rate: 0.75%

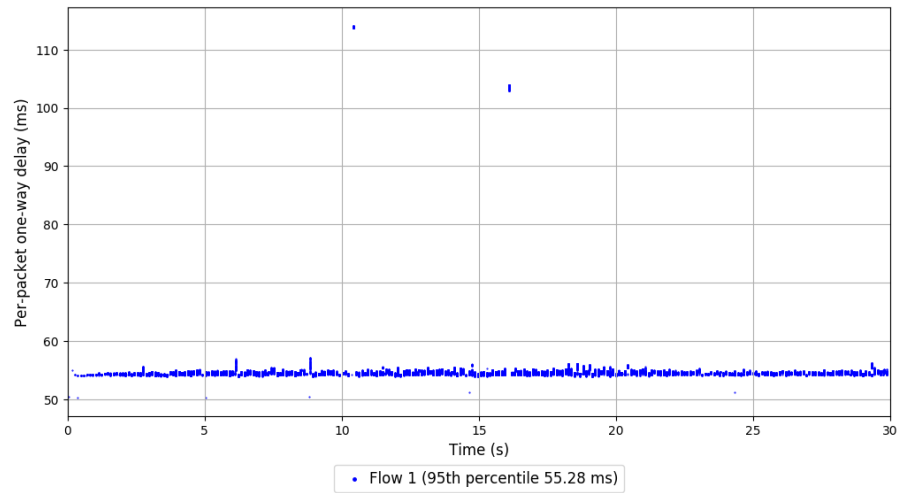
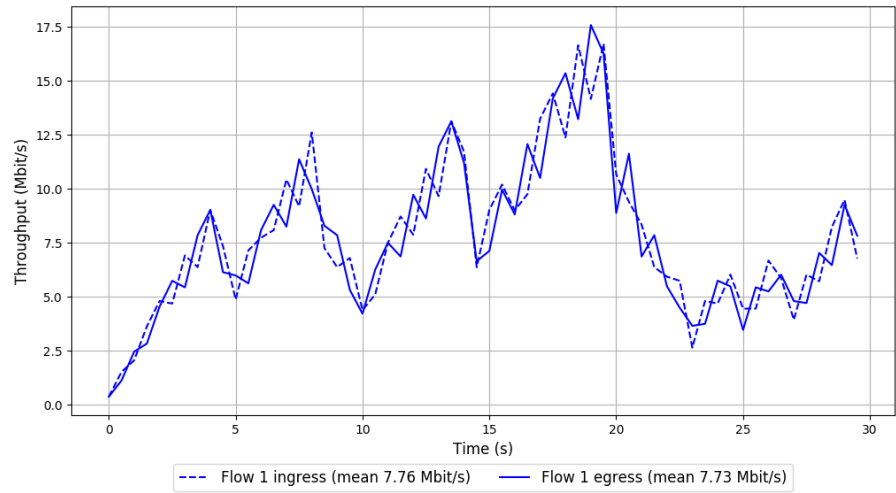
-- Flow 1:

Average throughput: 7.73 Mbit/s

95th percentile per-packet one-way delay: 55.282 ms

Loss rate: 0.75%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2017-09-21 15:19:05

End at: 2017-09-21 15:19:35

Below is generated by plot.py at 2017-09-21 18:03:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.94 Mbit/s

95th percentile per-packet one-way delay: 54.827 ms

Loss rate: 0.87%

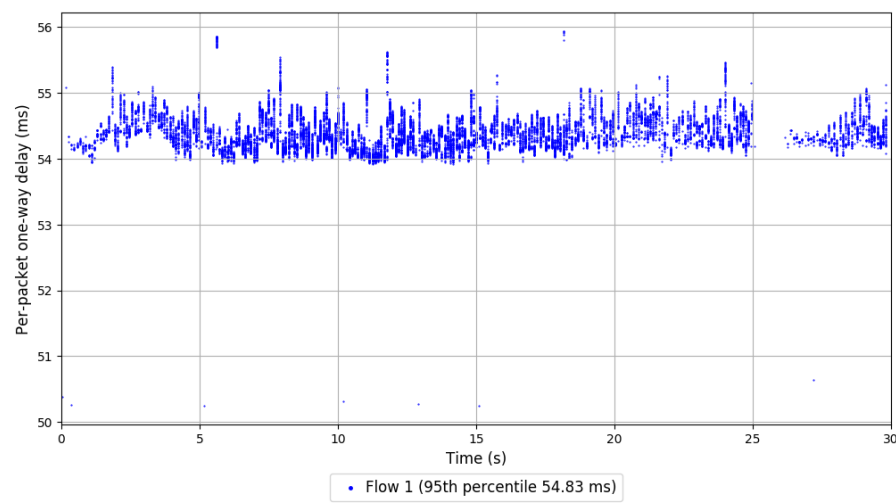
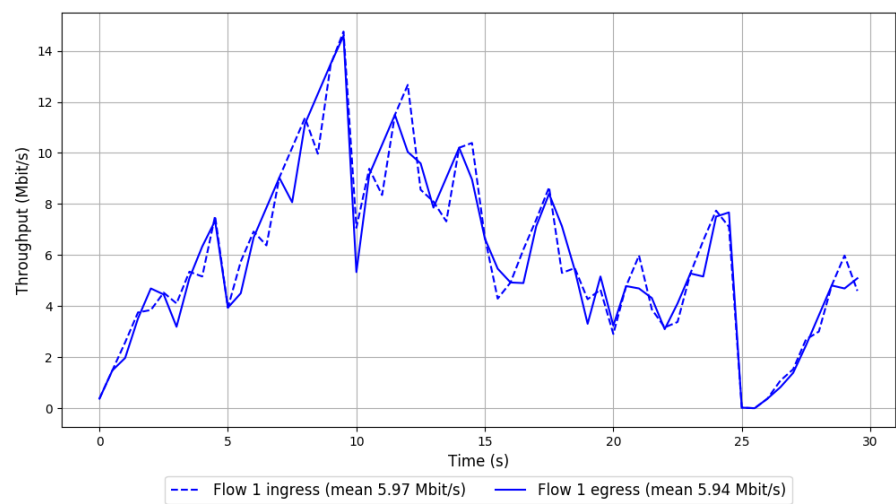
-- Flow 1:

Average throughput: 5.94 Mbit/s

95th percentile per-packet one-way delay: 54.827 ms

Loss rate: 0.87%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2017-09-21 15:28:53

End at: 2017-09-21 15:29:23

Below is generated by plot.py at 2017-09-21 18:03:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.29 Mbit/s

95th percentile per-packet one-way delay: 55.202 ms

Loss rate: 0.66%

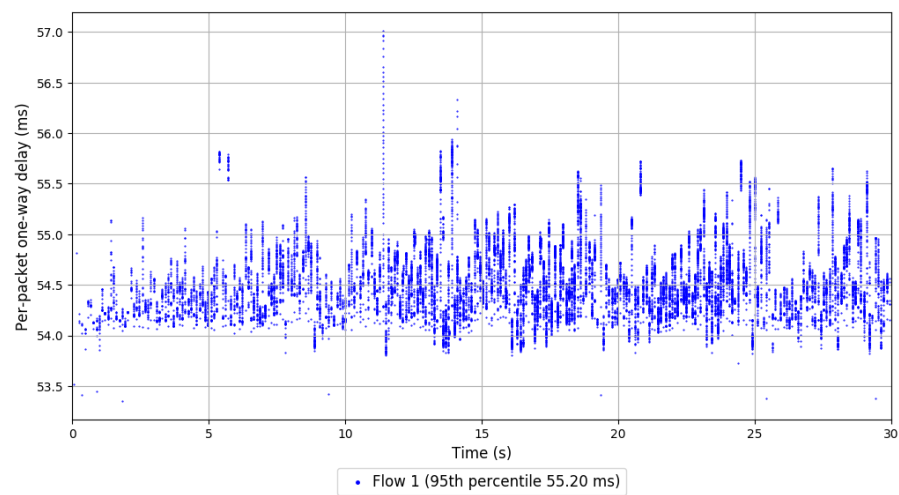
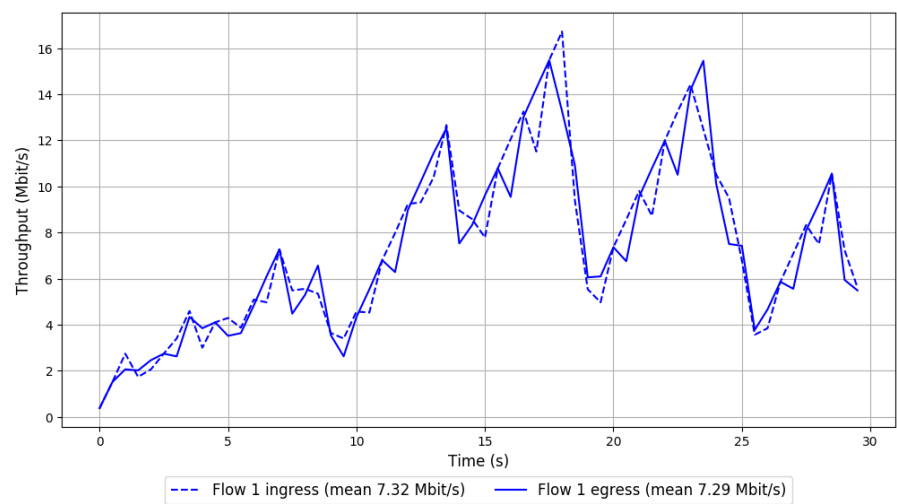
-- Flow 1:

Average throughput: 7.29 Mbit/s

95th percentile per-packet one-way delay: 55.202 ms

Loss rate: 0.66%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2017-09-21 15:39:20

End at: 2017-09-21 15:39:50

Below is generated by plot.py at 2017-09-21 18:03:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.40 Mbit/s

95th percentile per-packet one-way delay: 54.744 ms

Loss rate: 0.85%

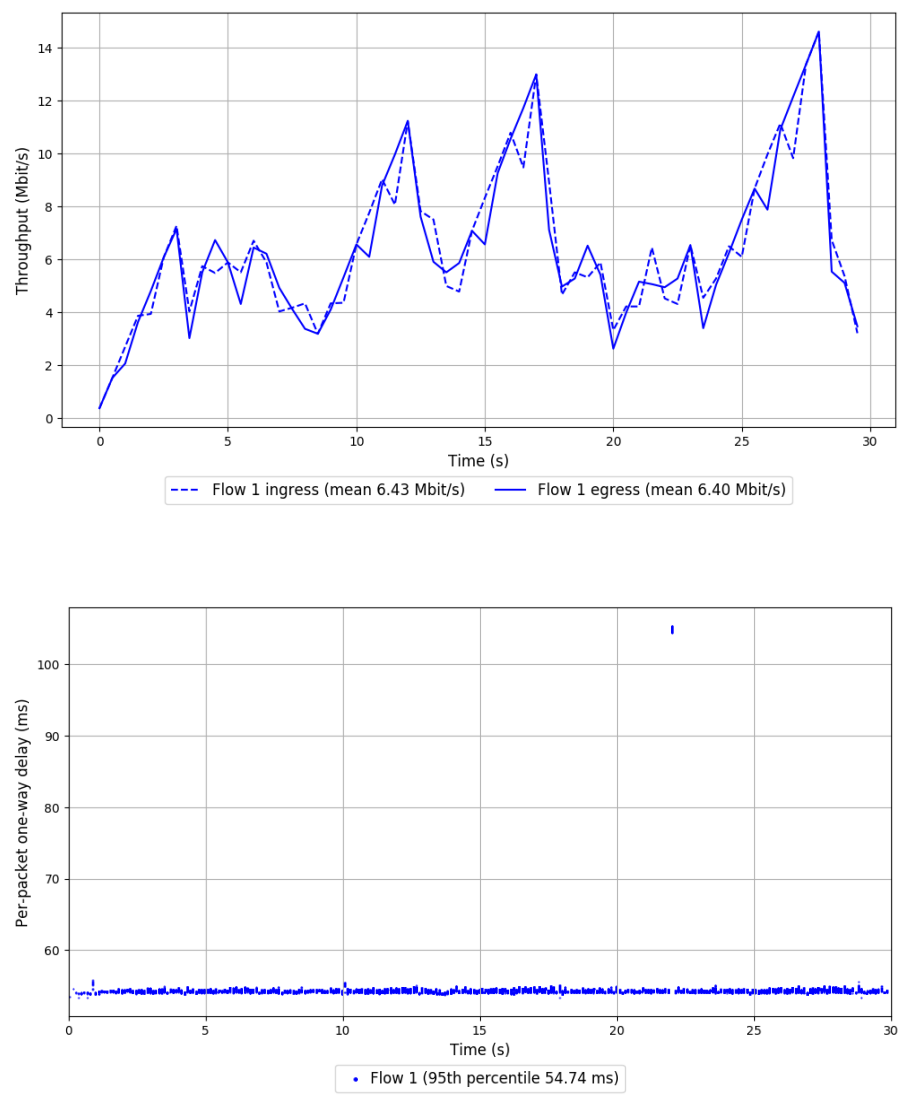
-- Flow 1:

Average throughput: 6.40 Mbit/s

95th percentile per-packet one-way delay: 54.744 ms

Loss rate: 0.85%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2017-09-21 15:49:40

End at: 2017-09-21 15:50:10

Below is generated by plot.py at 2017-09-21 18:03:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.07 Mbit/s

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

Loss rate: 1.12%

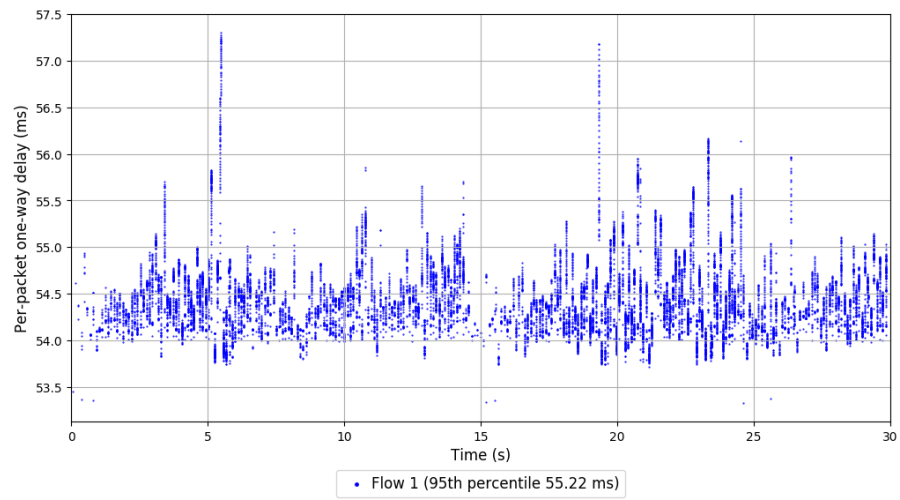
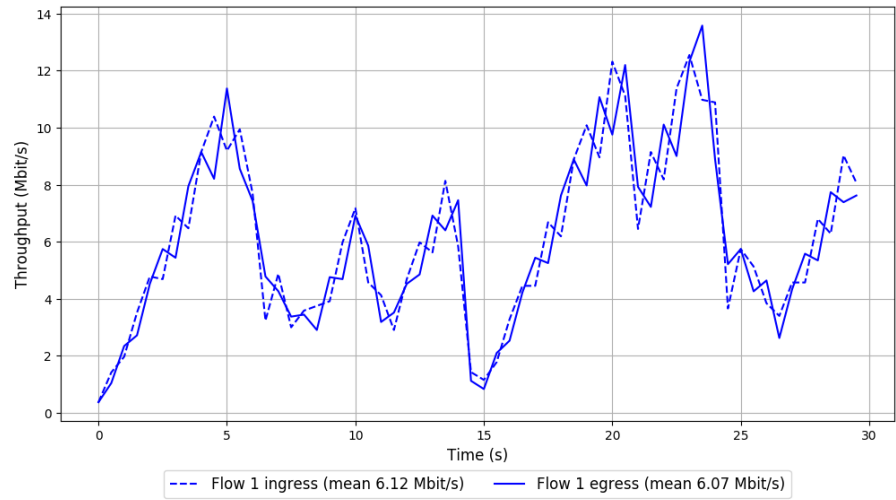
-- Flow 1:

Average throughput: 6.07 Mbit/s

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

Loss rate: 1.12%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2017-09-21 15:59:39

End at: 2017-09-21 16:00:09

Below is generated by plot.py at 2017-09-21 18:03:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.24 Mbit/s

95th percentile per-packet one-way delay: 54.876 ms

Loss rate: 1.05%

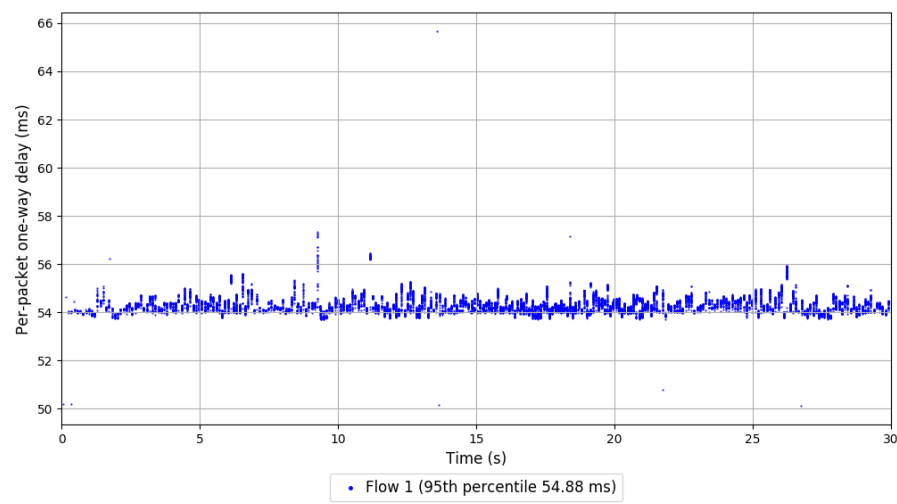
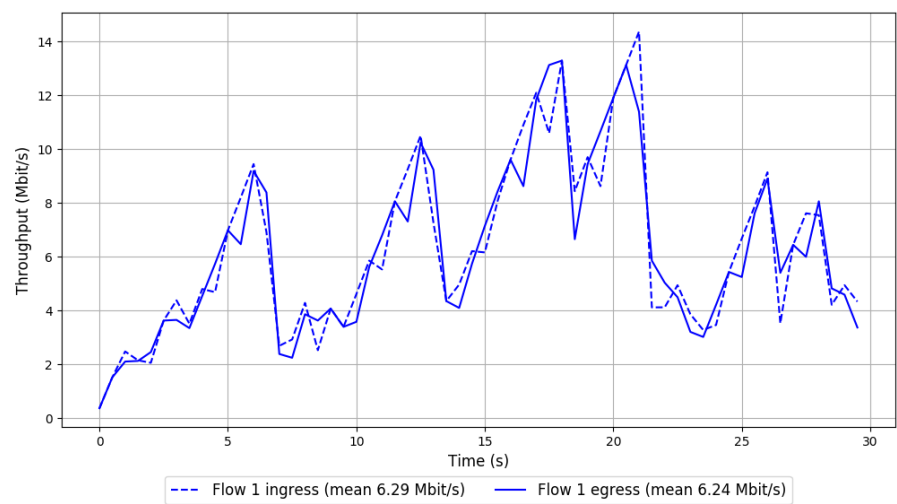
-- Flow 1:

Average throughput: 6.24 Mbit/s

95th percentile per-packet one-way delay: 54.876 ms

Loss rate: 1.05%

Run 10: Report of LEDBAT — Data Link

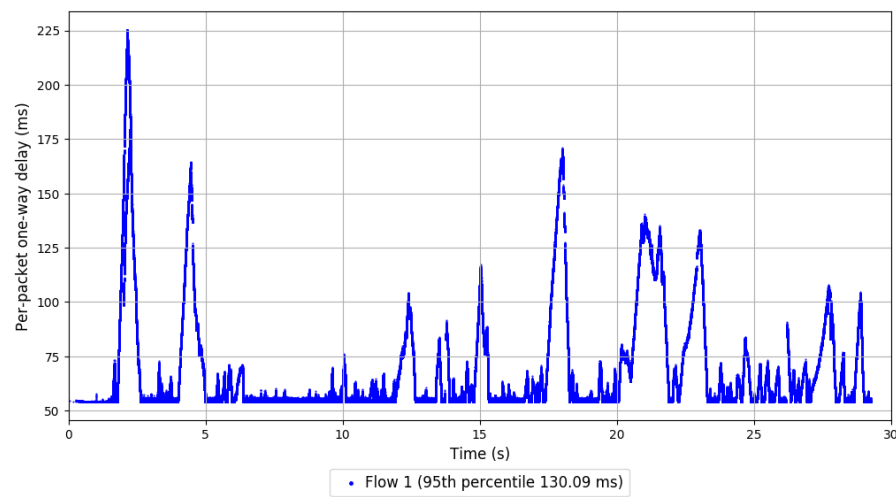
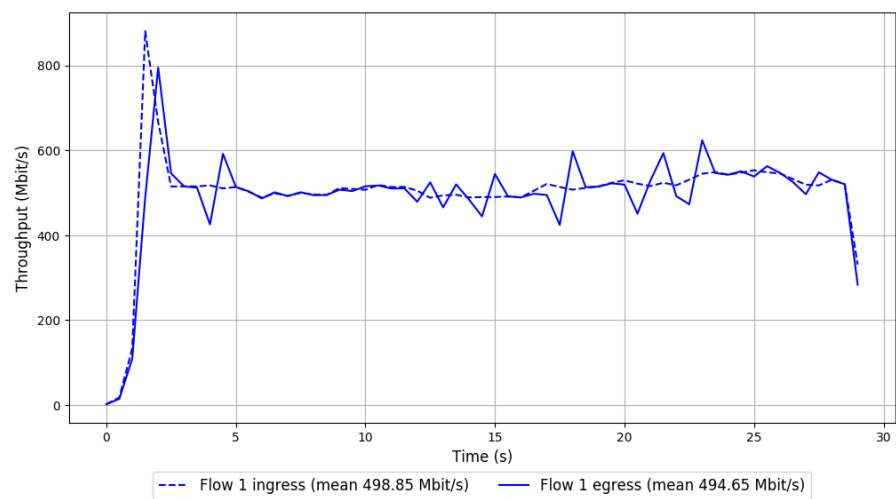


```
Run 1: Statistics of PCC

Start at: 2017-09-21 14:26:27
End at: 2017-09-21 14:26:57

# Below is generated by plot.py at 2017-09-21 18:11:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 494.65 Mbit/s
95th percentile per-packet one-way delay: 130.089 ms
Loss rate: 1.20%
-- Flow 1:
Average throughput: 494.65 Mbit/s
95th percentile per-packet one-way delay: 130.089 ms
Loss rate: 1.20%
```

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2017-09-21 14:37:20

End at: 2017-09-21 14:37:50

Below is generated by plot.py at 2017-09-21 18:11:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 512.11 Mbit/s

95th percentile per-packet one-way delay: 137.999 ms

Loss rate: 1.54%

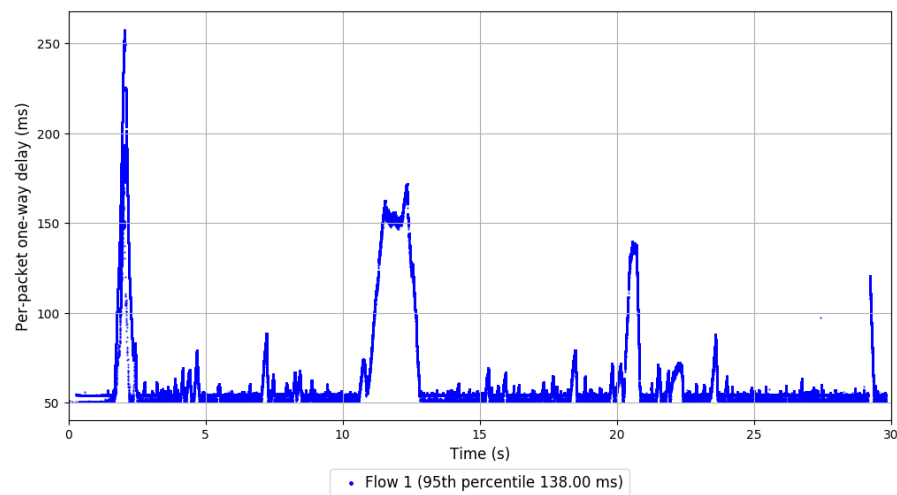
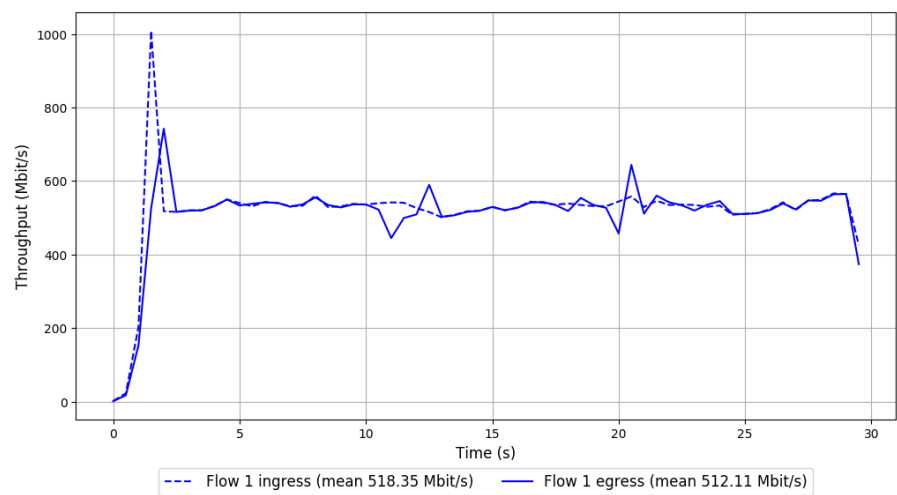
-- Flow 1:

Average throughput: 512.11 Mbit/s

95th percentile per-packet one-way delay: 137.999 ms

Loss rate: 1.54%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2017-09-21 14:47:46

End at: 2017-09-21 14:48:16

Below is generated by plot.py at 2017-09-21 18:12:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 561.71 Mbit/s

95th percentile per-packet one-way delay: 129.800 ms

Loss rate: 1.31%

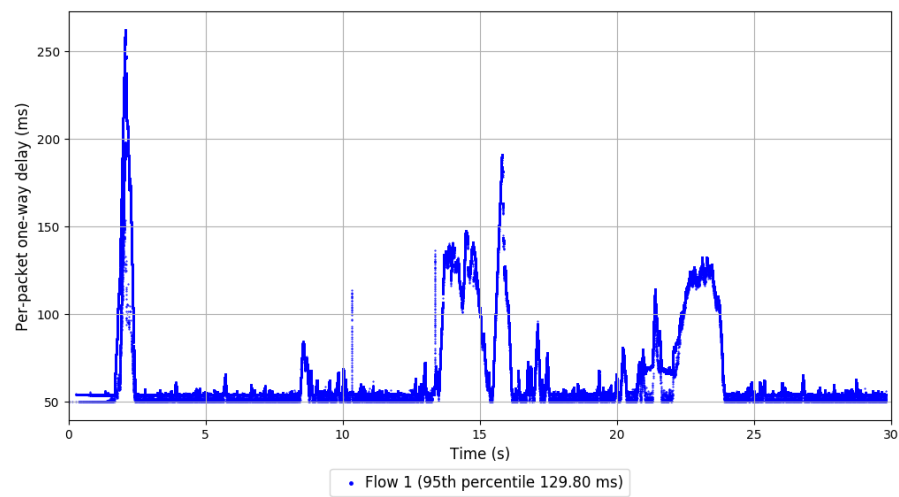
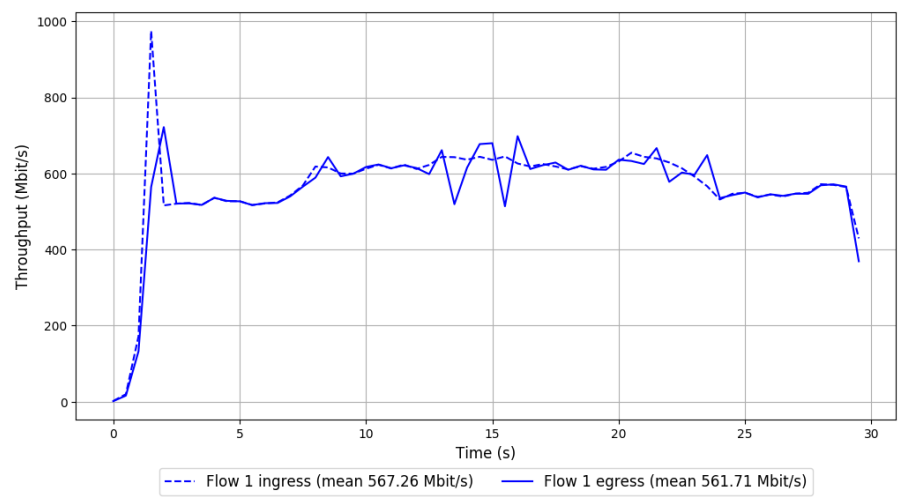
-- Flow 1:

Average throughput: 561.71 Mbit/s

95th percentile per-packet one-way delay: 129.800 ms

Loss rate: 1.31%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2017-09-21 14:58:13

End at: 2017-09-21 14:58:43

Below is generated by plot.py at 2017-09-21 18:12:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 562.55 Mbit/s

95th percentile per-packet one-way delay: 125.415 ms

Loss rate: 1.22%

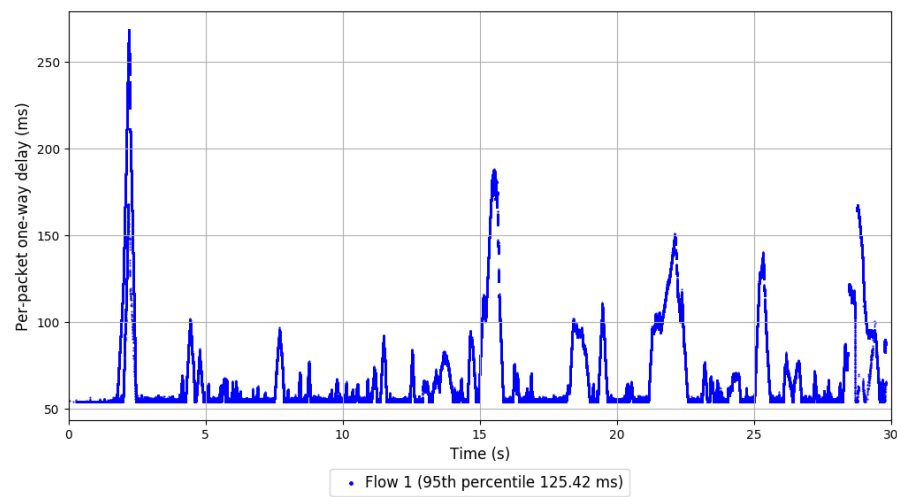
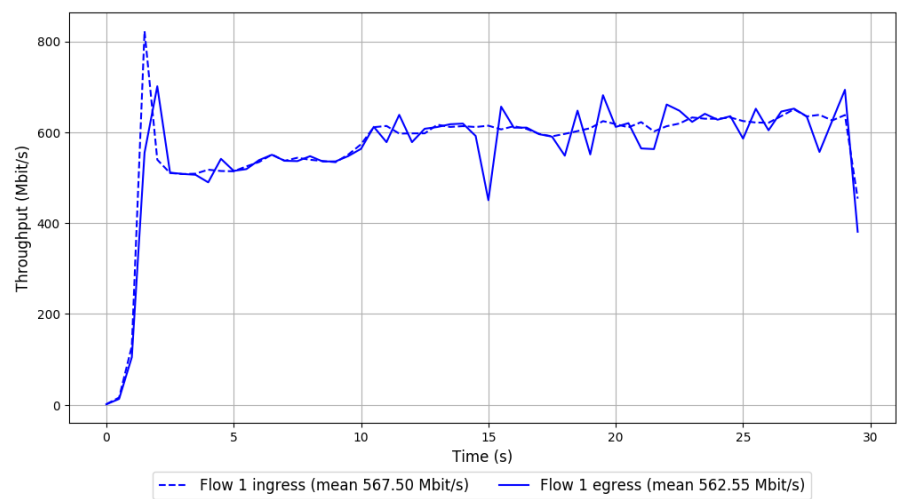
-- Flow 1:

Average throughput: 562.55 Mbit/s

95th percentile per-packet one-way delay: 125.415 ms

Loss rate: 1.22%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2017-09-21 15:09:01

End at: 2017-09-21 15:09:31

Below is generated by plot.py at 2017-09-21 18:12:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 498.50 Mbit/s

95th percentile per-packet one-way delay: 86.856 ms

Loss rate: 0.81%

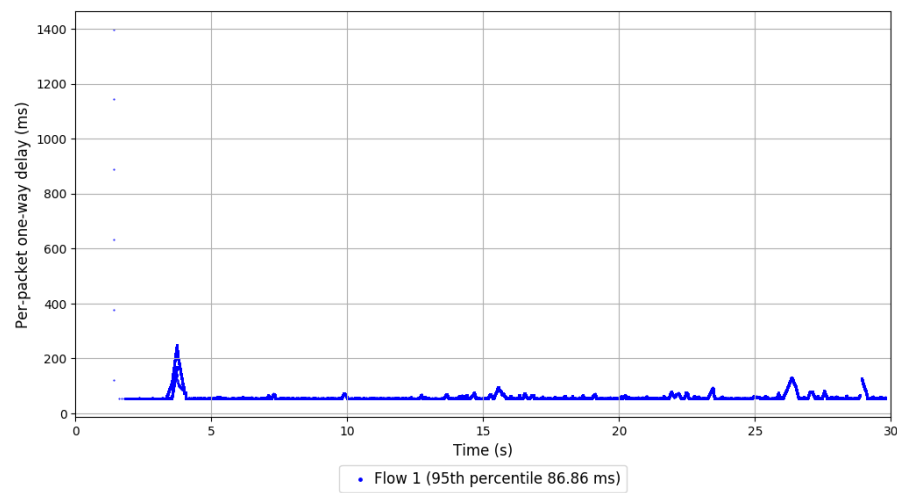
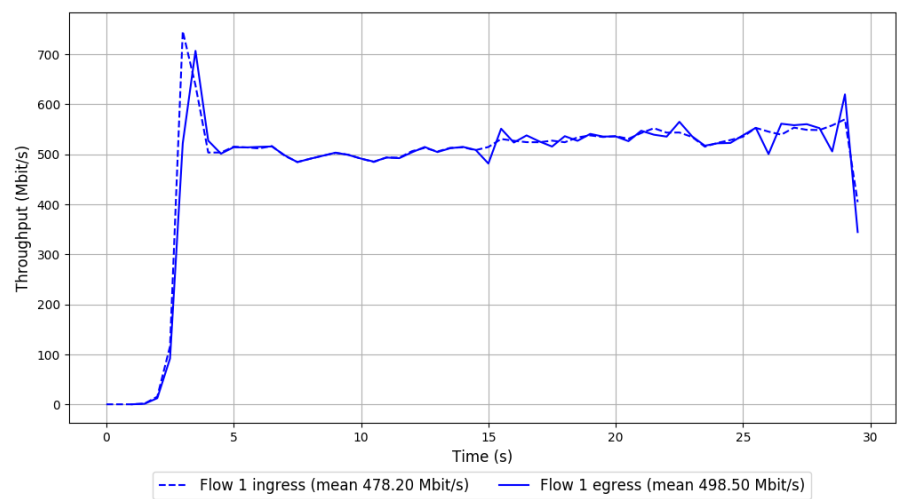
-- Flow 1:

Average throughput: 498.50 Mbit/s

95th percentile per-packet one-way delay: 86.856 ms

Loss rate: 0.81%

Run 5: Report of PCC — Data Link

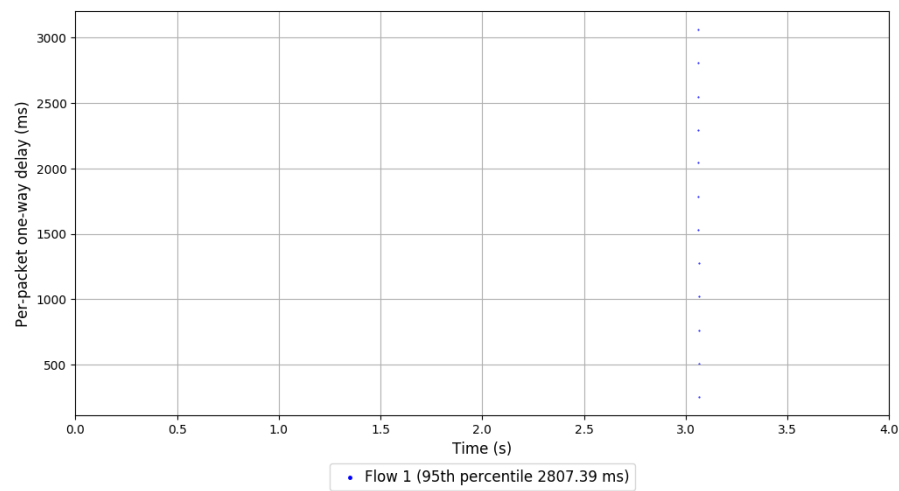
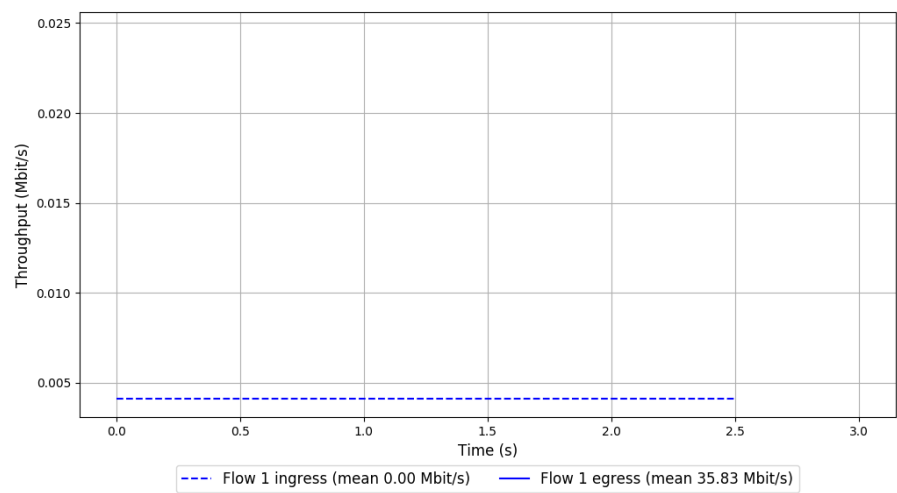


Run 6: Statistics of PCC

Start at: 2017-09-21 15:19:43

End at: 2017-09-21 15:20:13

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2017-09-21 15:29:30

End at: 2017-09-21 15:30:00

Below is generated by plot.py at 2017-09-21 18:12:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 539.92 Mbit/s

95th percentile per-packet one-way delay: 77.868 ms

Loss rate: 1.25%

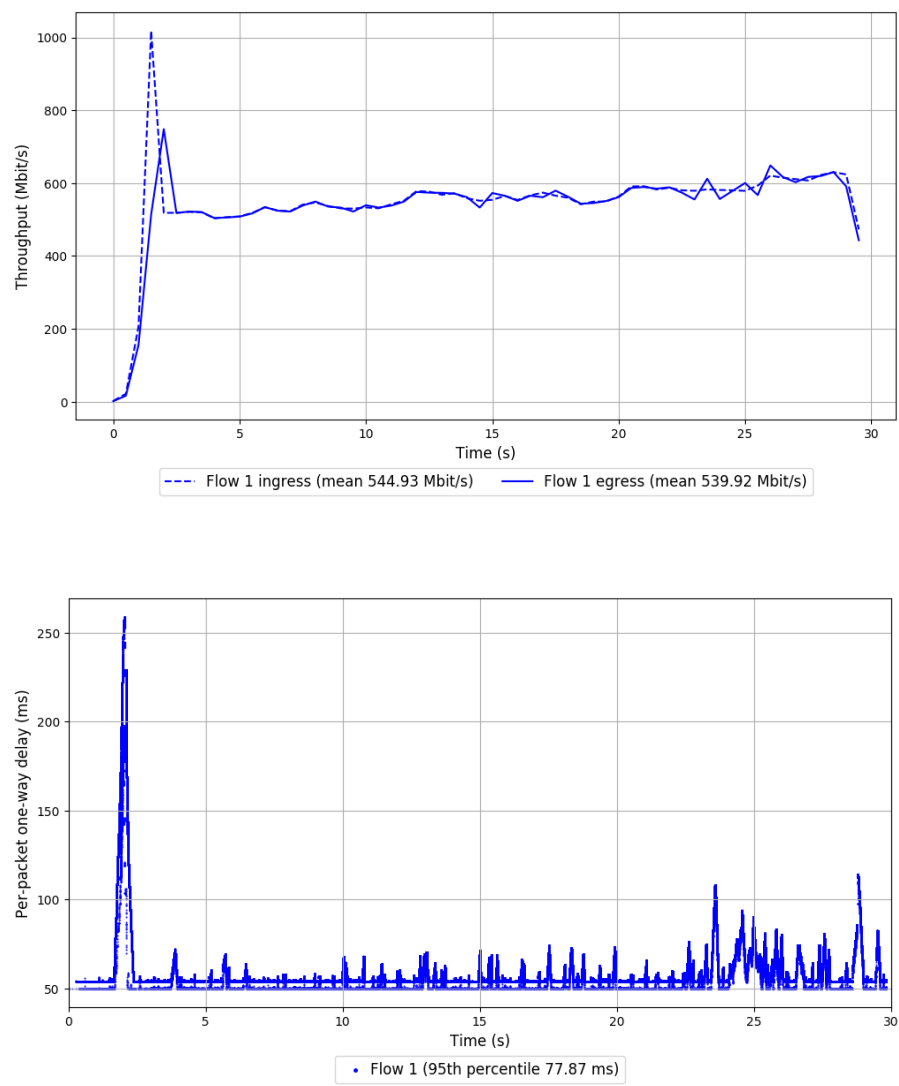
-- Flow 1:

Average throughput: 539.92 Mbit/s

95th percentile per-packet one-way delay: 77.868 ms

Loss rate: 1.25%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2017-09-21 15:39:58

End at: 2017-09-21 15:40:28

Below is generated by plot.py at 2017-09-21 18:12:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 535.50 Mbit/s

95th percentile per-packet one-way delay: 116.950 ms

Loss rate: 1.11%

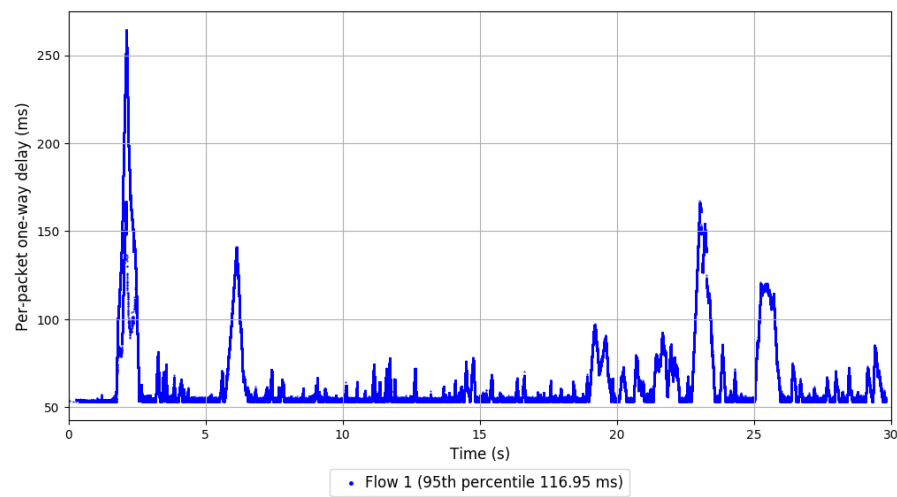
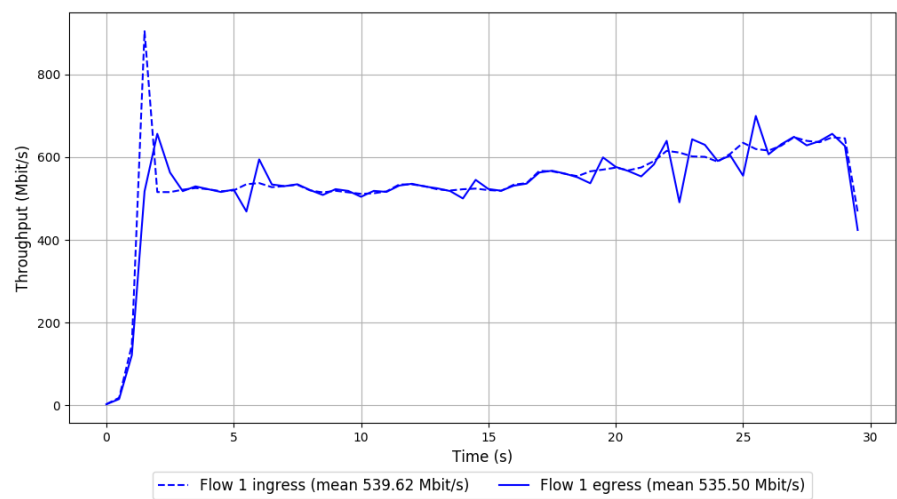
-- Flow 1:

Average throughput: 535.50 Mbit/s

95th percentile per-packet one-way delay: 116.950 ms

Loss rate: 1.11%

Run 8: Report of PCC — Data Link

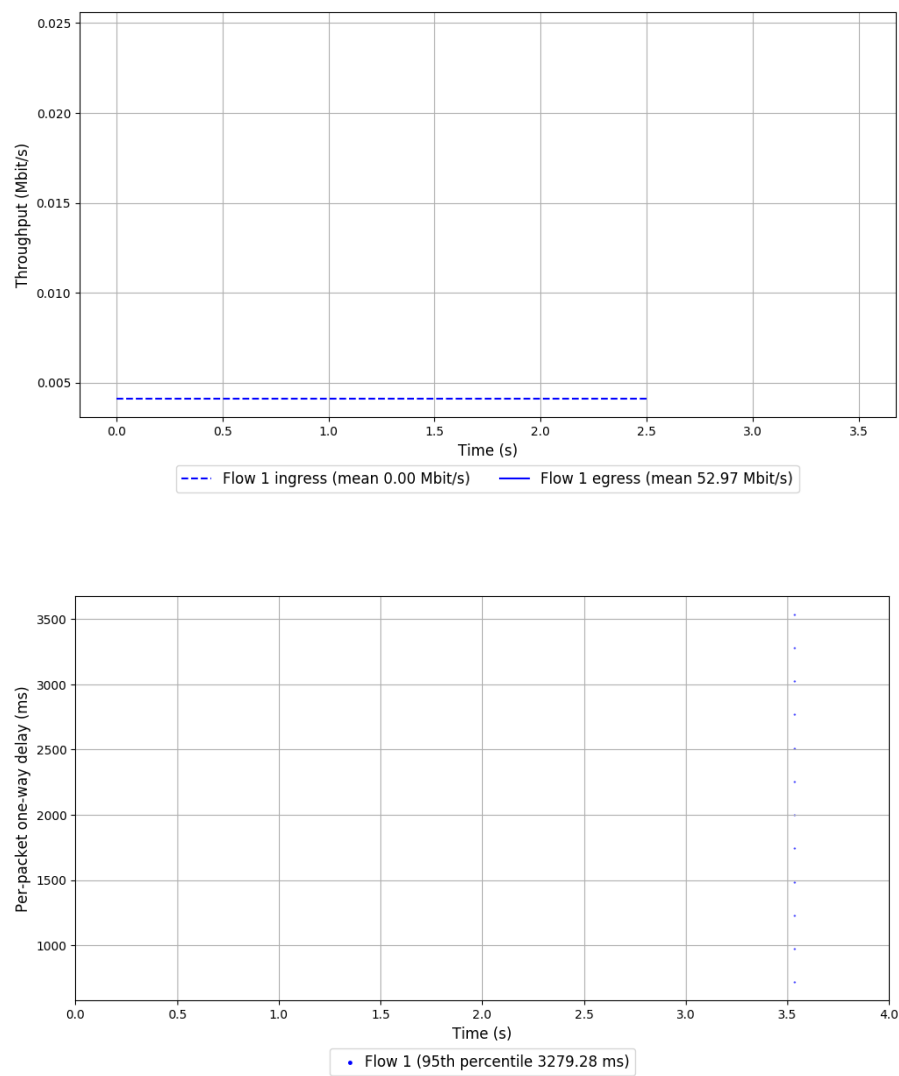


Run 9: Statistics of PCC

Start at: 2017-09-21 15:50:17

End at: 2017-09-21 15:50:47

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2017-09-21 16:00:16

End at: 2017-09-21 16:00:46

Below is generated by plot.py at 2017-09-21 18:12:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 499.56 Mbit/s

95th percentile per-packet one-way delay: 95.372 ms

Loss rate: 1.03%

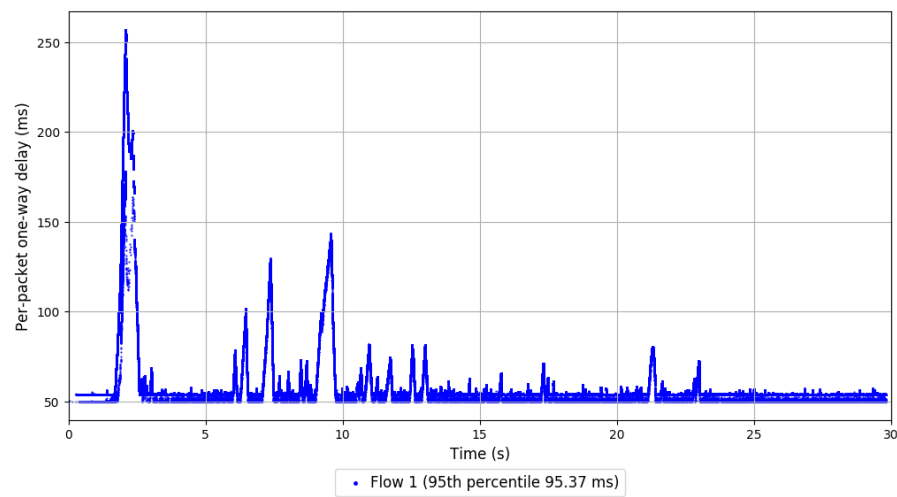
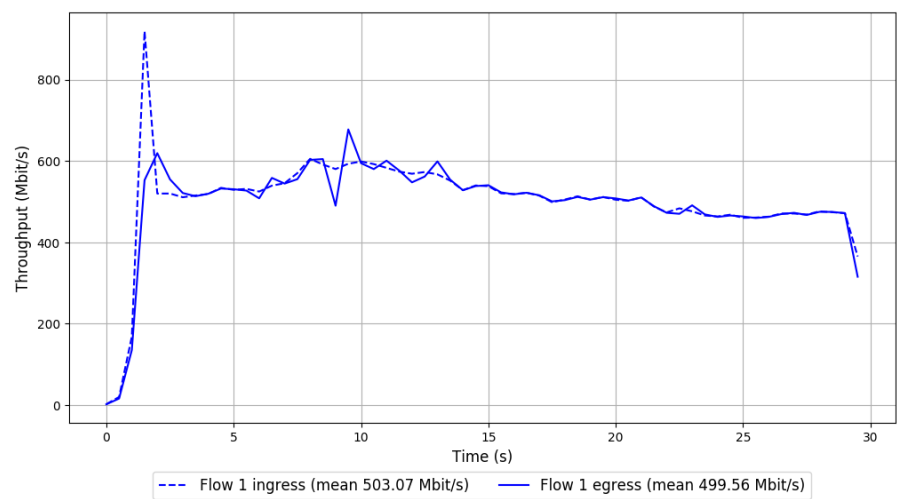
-- Flow 1:

Average throughput: 499.56 Mbit/s

95th percentile per-packet one-way delay: 95.372 ms

Loss rate: 1.03%

Run 10: Report of PCC — Data Link

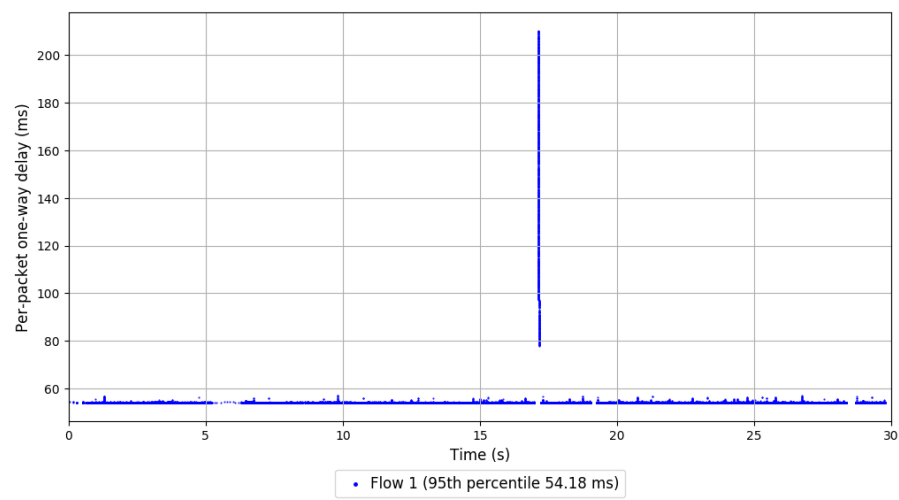
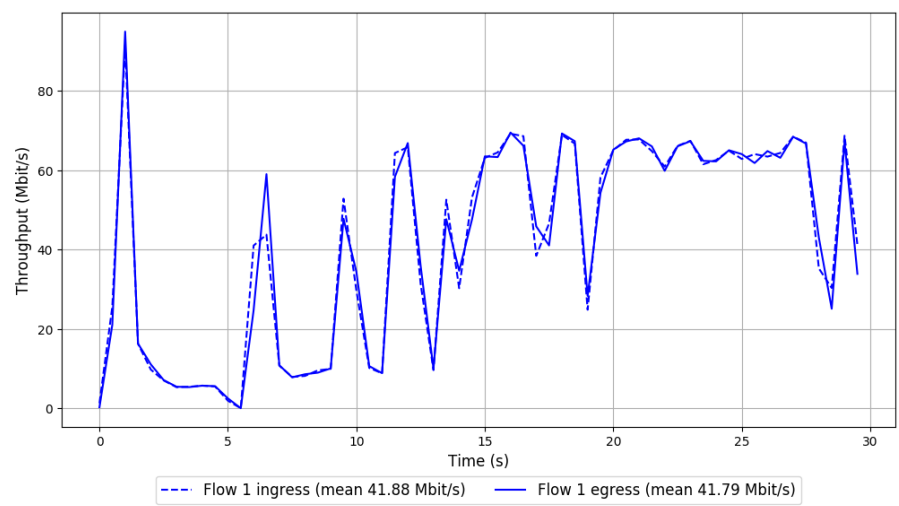


```
Run 1: Statistics of QUIC Cubic

Start at: 2017-09-21 14:28:02
End at: 2017-09-21 14:28:32

# Below is generated by plot.py at 2017-09-21 18:12:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 41.79 Mbit/s
95th percentile per-packet one-way delay: 54.182 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 41.79 Mbit/s
95th percentile per-packet one-way delay: 54.182 ms
Loss rate: 0.58%
```

Run 1: Report of QUIC Cubic — Data Link

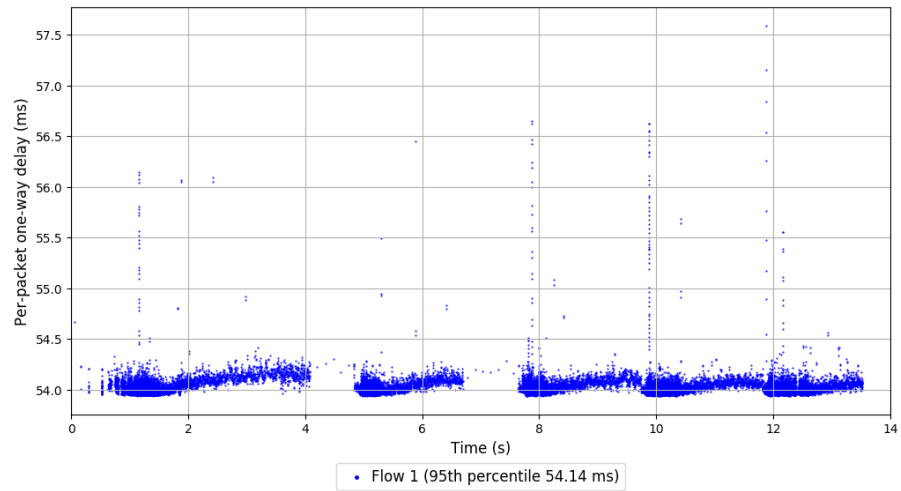
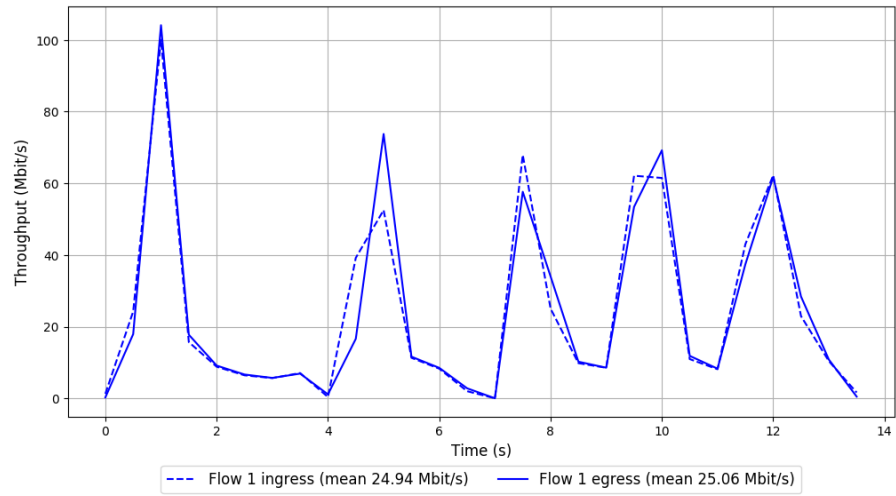


Run 2: Statistics of QUIC Cubic

Start at: 2017-09-21 14:38:55

End at: 2017-09-21 14:39:25

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2017-09-21 14:49:22

End at: 2017-09-21 14:49:52

Below is generated by plot.py at 2017-09-21 18:12:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 42.32 Mbit/s

95th percentile per-packet one-way delay: 54.128 ms

Loss rate: 0.69%

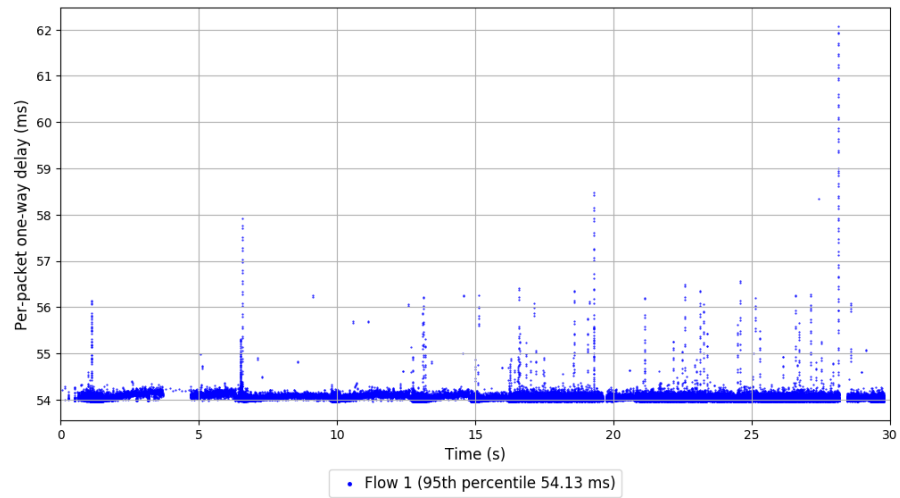
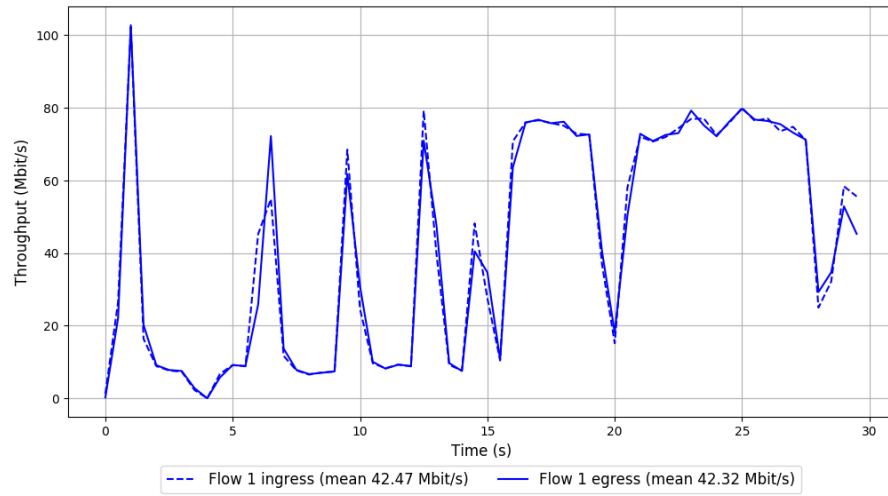
-- Flow 1:

Average throughput: 42.32 Mbit/s

95th percentile per-packet one-way delay: 54.128 ms

Loss rate: 0.69%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2017-09-21 14:59:49

End at: 2017-09-21 15:00:19

Below is generated by plot.py at 2017-09-21 18:12:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 40.29 Mbit/s

95th percentile per-packet one-way delay: 50.234 ms

Loss rate: 0.39%

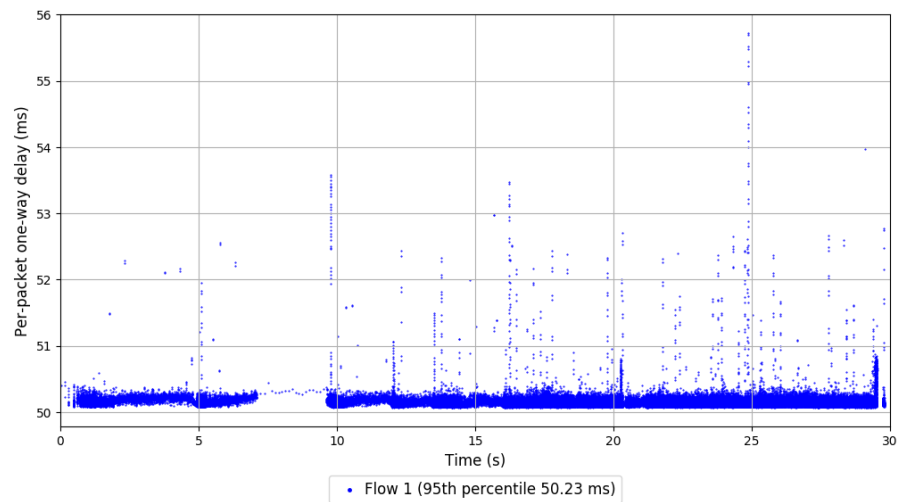
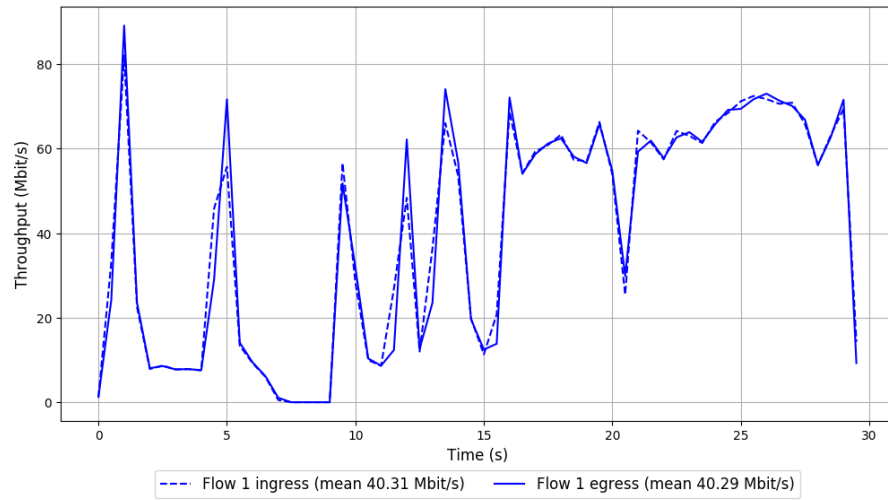
-- Flow 1:

Average throughput: 40.29 Mbit/s

95th percentile per-packet one-way delay: 50.234 ms

Loss rate: 0.39%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2017-09-21 15:10:34

End at: 2017-09-21 15:11:04

Below is generated by plot.py at 2017-09-21 18:13:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 65.03 Mbit/s

95th percentile per-packet one-way delay: 50.651 ms

Loss rate: 0.40%

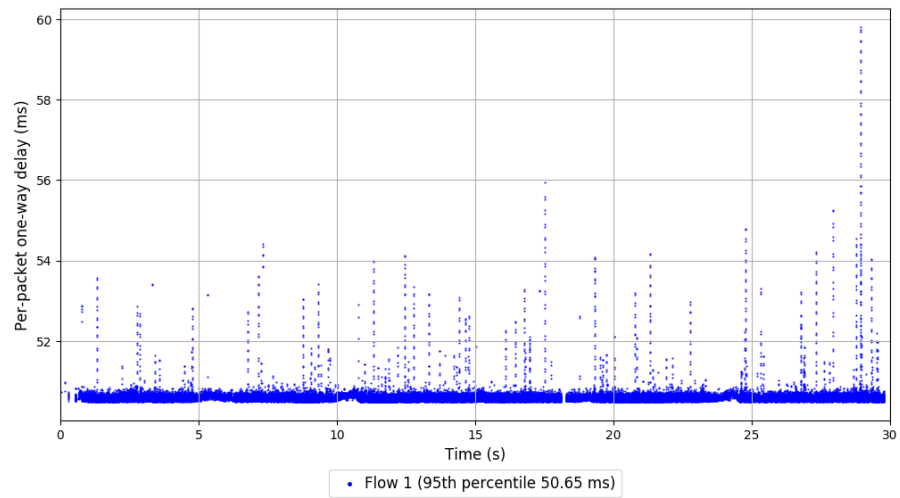
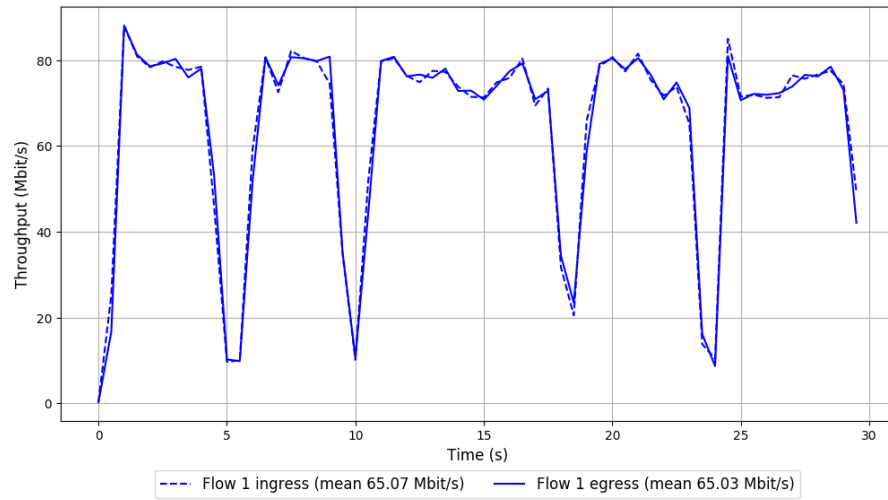
-- Flow 1:

Average throughput: 65.03 Mbit/s

95th percentile per-packet one-way delay: 50.651 ms

Loss rate: 0.40%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2017-09-21 15:20:56

End at: 2017-09-21 15:21:26

Below is generated by plot.py at 2017-09-21 18:13:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 43.68 Mbit/s

95th percentile per-packet one-way delay: 53.377 ms

Loss rate: 0.55%

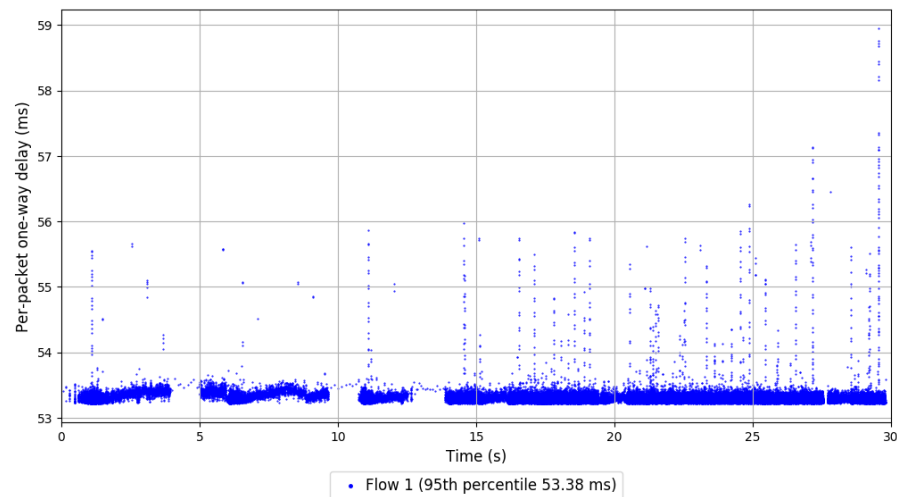
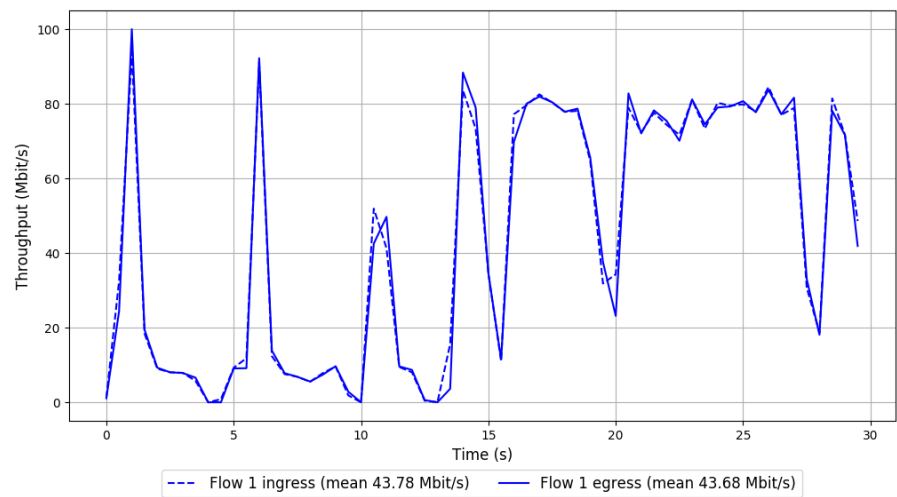
-- Flow 1:

Average throughput: 43.68 Mbit/s

95th percentile per-packet one-way delay: 53.377 ms

Loss rate: 0.55%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2017-09-21 15:31:06

End at: 2017-09-21 15:31:36

Below is generated by plot.py at 2017-09-21 18:13:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 41.65 Mbit/s

95th percentile per-packet one-way delay: 53.973 ms

Loss rate: 0.57%

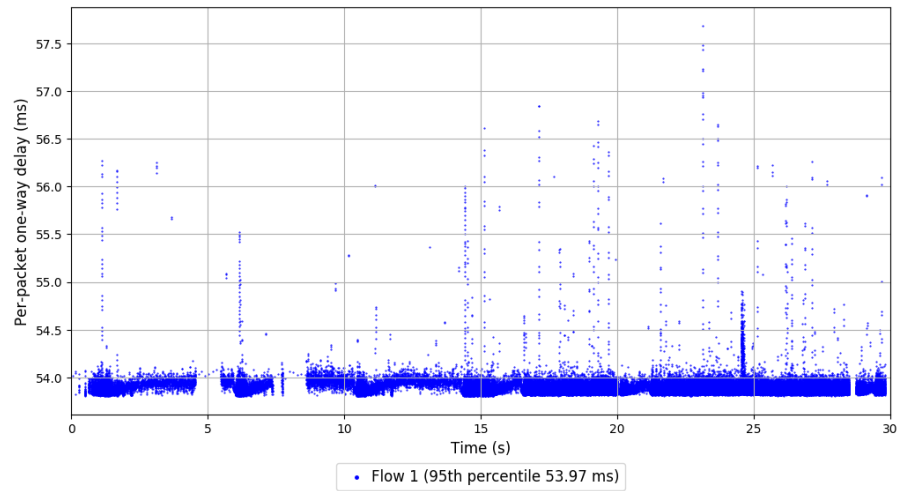
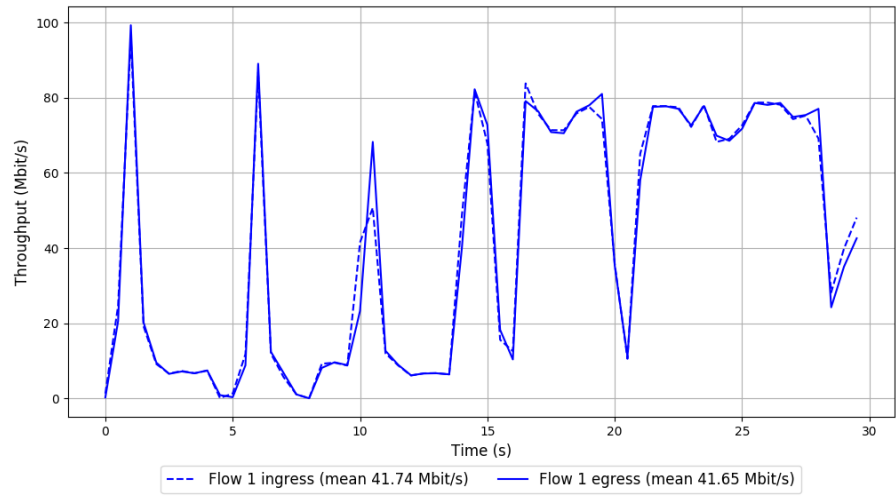
-- Flow 1:

Average throughput: 41.65 Mbit/s

95th percentile per-packet one-way delay: 53.973 ms

Loss rate: 0.57%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2017-09-21 15:41:33

End at: 2017-09-21 15:42:03

Below is generated by plot.py at 2017-09-21 18:13:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 57.25 Mbit/s

95th percentile per-packet one-way delay: 50.102 ms

Loss rate: 0.40%

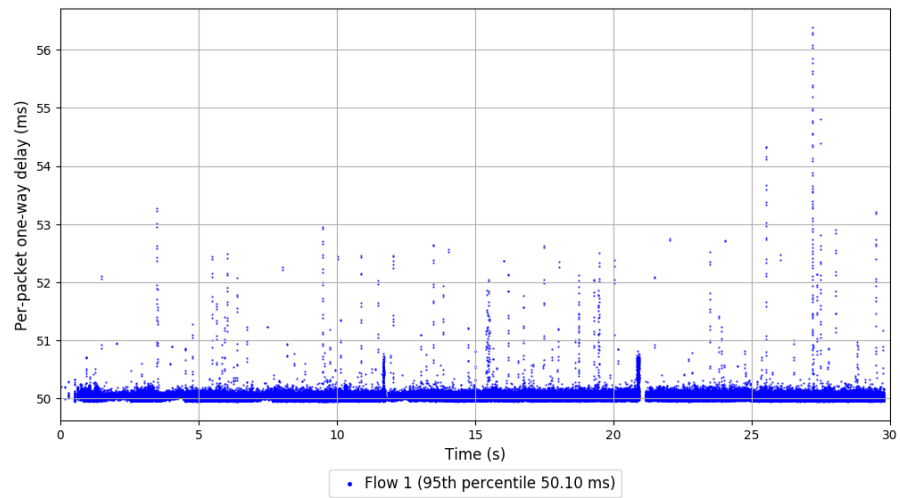
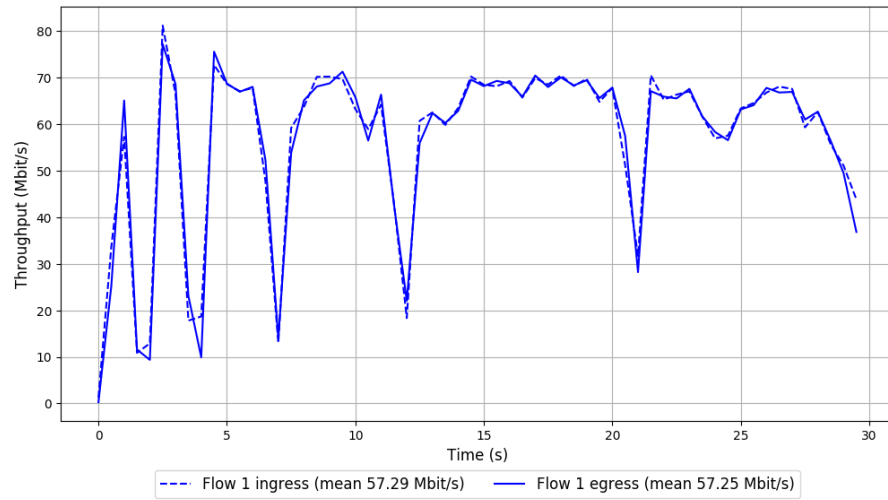
-- Flow 1:

Average throughput: 57.25 Mbit/s

95th percentile per-packet one-way delay: 50.102 ms

Loss rate: 0.40%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2017-09-21 15:51:31

End at: 2017-09-21 15:52:01

Below is generated by plot.py at 2017-09-21 18:13:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 46.26 Mbit/s

95th percentile per-packet one-way delay: 50.180 ms

Loss rate: 0.61%

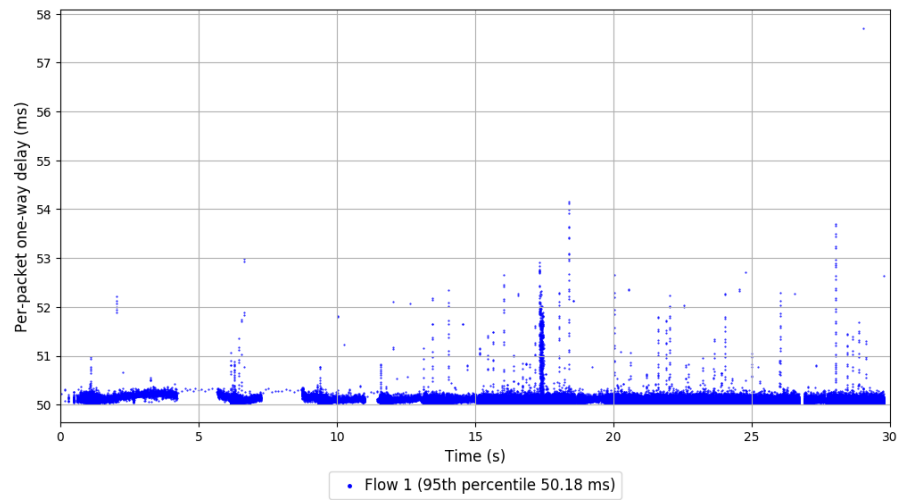
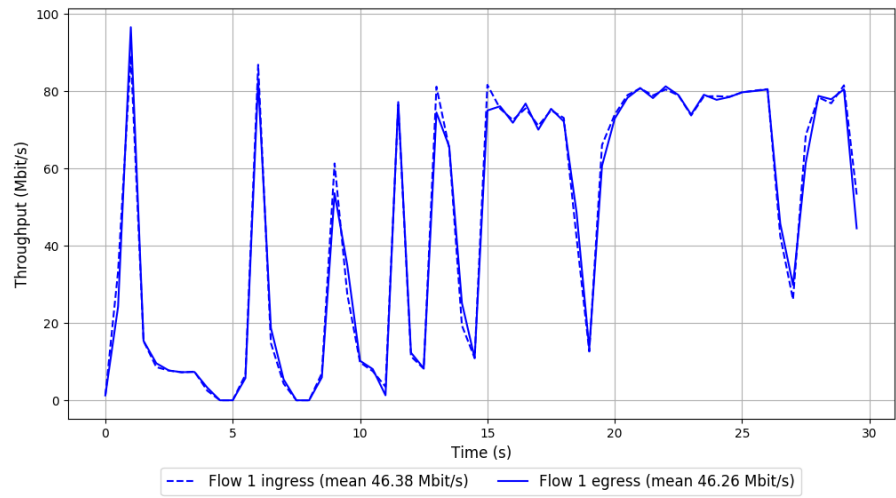
-- Flow 1:

Average throughput: 46.26 Mbit/s

95th percentile per-packet one-way delay: 50.180 ms

Loss rate: 0.61%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2017-09-21 16:01:51

End at: 2017-09-21 16:02:21

Below is generated by plot.py at 2017-09-21 18:13:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 41.84 Mbit/s

95th percentile per-packet one-way delay: 53.212 ms

Loss rate: 0.48%

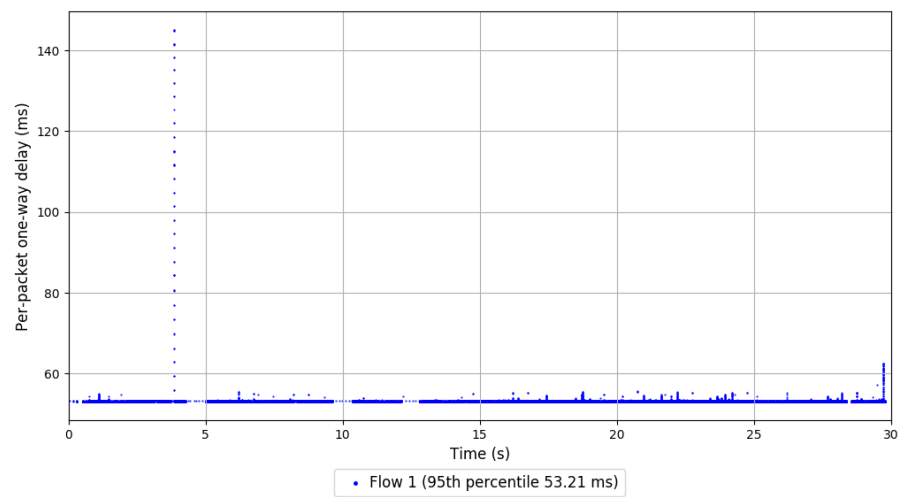
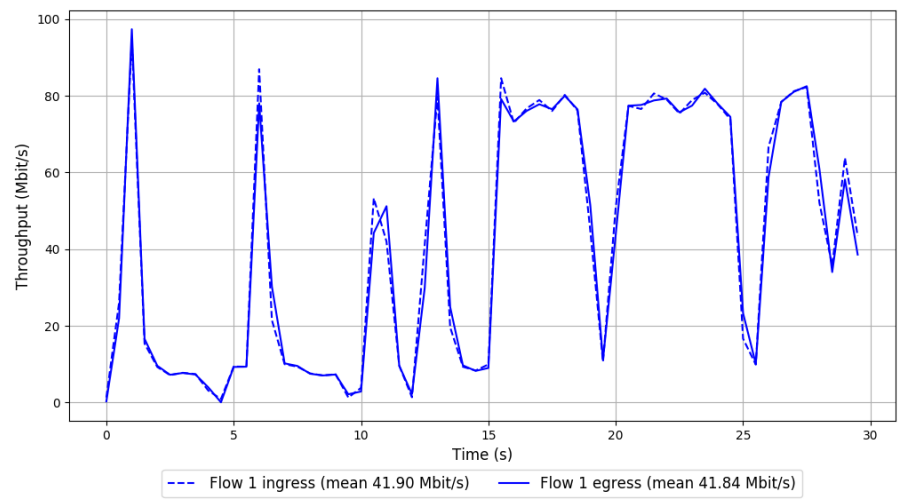
-- Flow 1:

Average throughput: 41.84 Mbit/s

95th percentile per-packet one-way delay: 53.212 ms

Loss rate: 0.48%

Run 10: Report of QUIC Cubic — Data Link

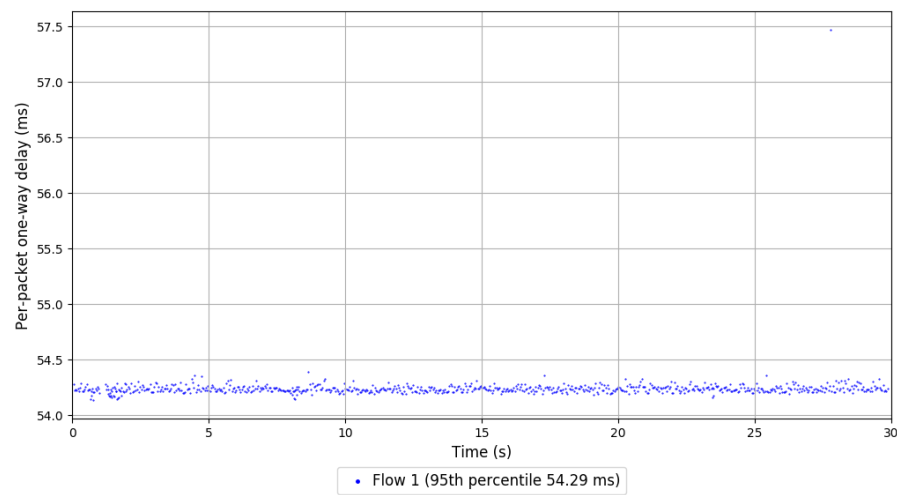
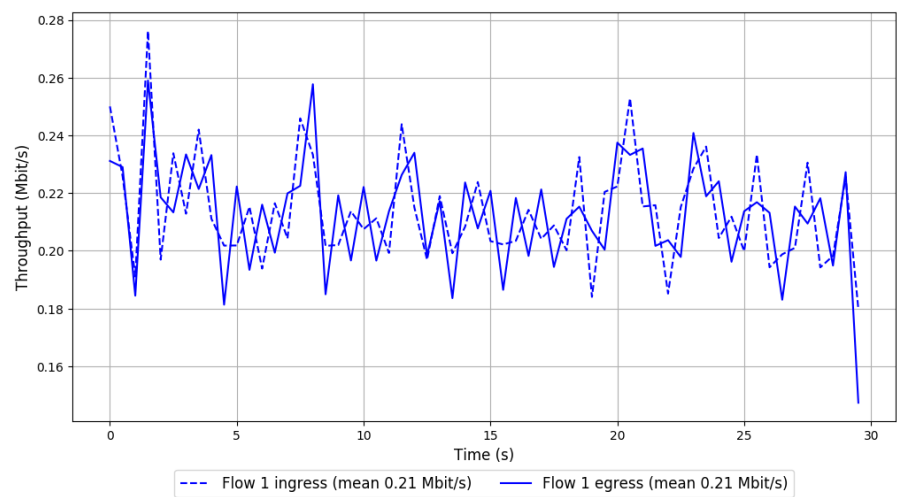


```
Run 1: Statistics of SCReAM

Start at: 2017-09-21 14:27:25
End at: 2017-09-21 14:27:55

# Below is generated by plot.py at 2017-09-21 18:13:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 54.289 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 54.289 ms
Loss rate: 0.38%
```

Run 1: Report of SReAM — Data Link

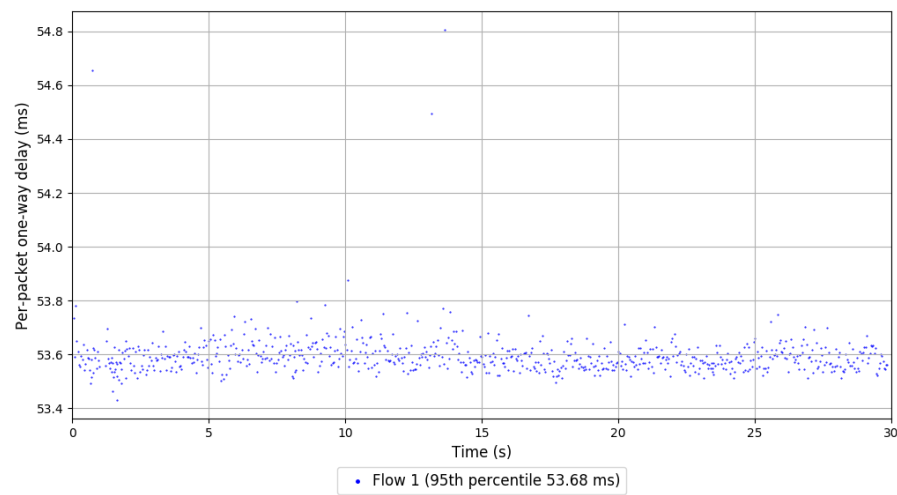
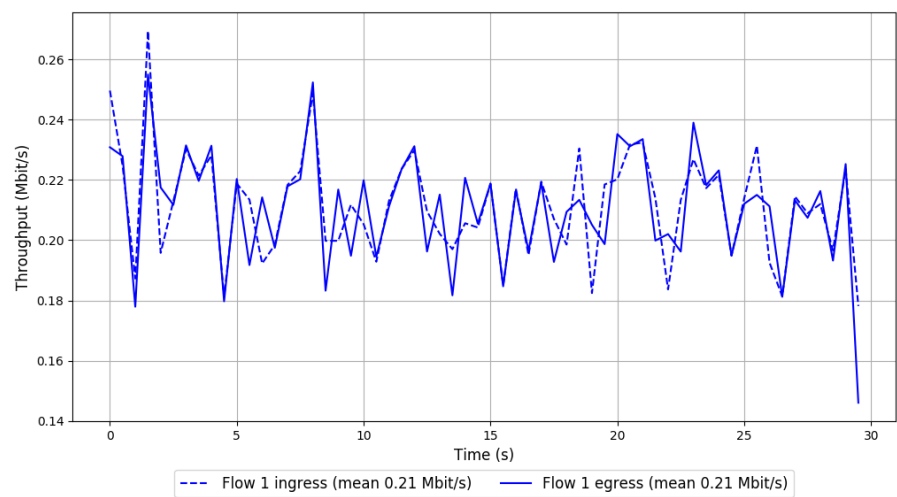


```
Run 2: Statistics of SCReAM

Start at: 2017-09-21 14:38:18
End at: 2017-09-21 14:38:48

# Below is generated by plot.py at 2017-09-21 18:13:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.684 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.684 ms
Loss rate: 0.38%
```

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2017-09-21 14:48:45

End at: 2017-09-21 14:49:15

Below is generated by plot.py at 2017-09-21 18:13:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 54.252 ms

Loss rate: 0.38%

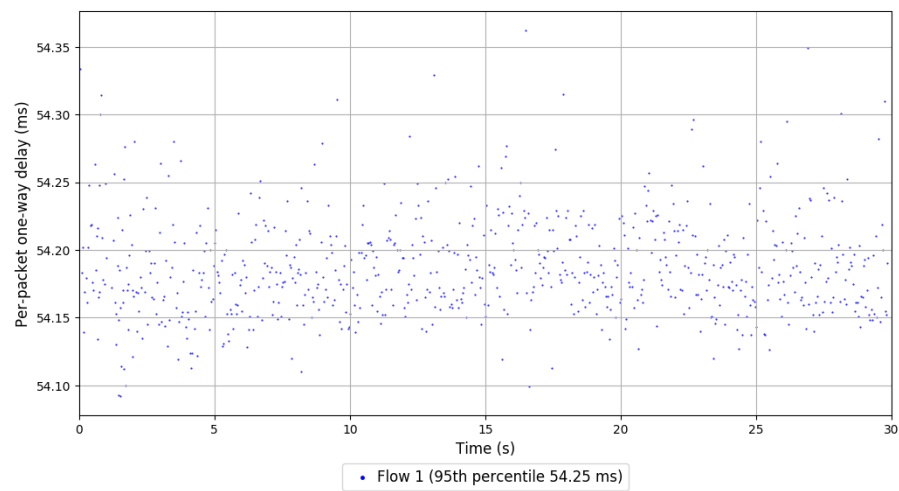
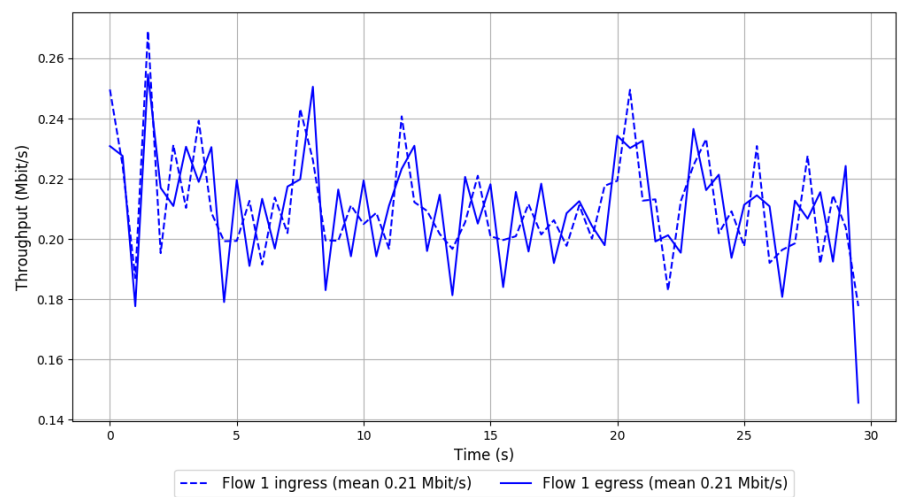
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 54.252 ms

Loss rate: 0.38%

Run 3: Report of SReAM — Data Link

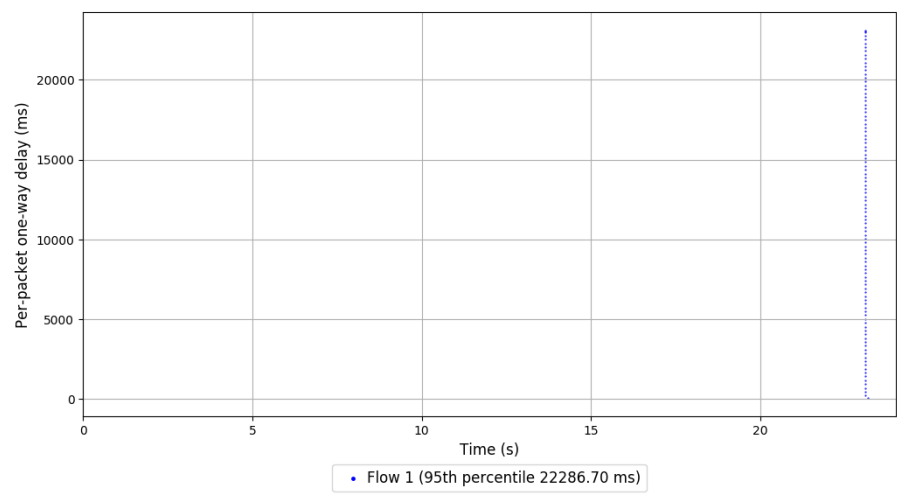
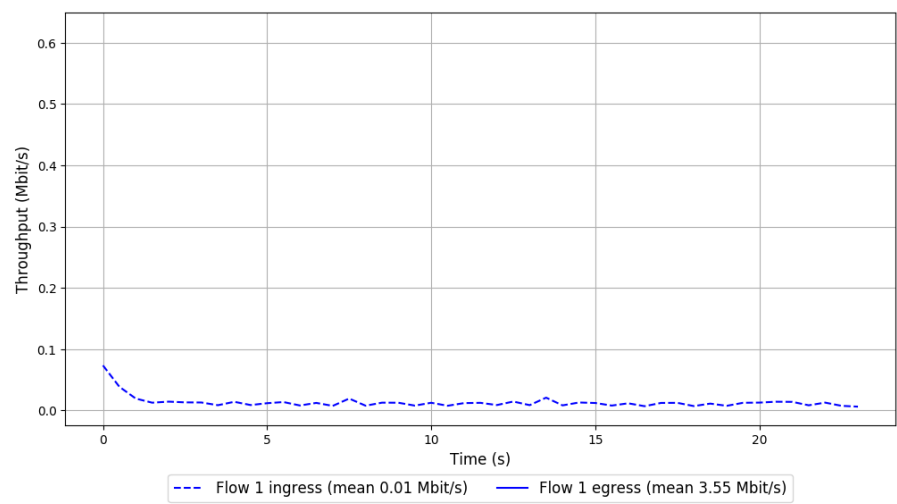


Run 4: Statistics of SReAM

Start at: 2017-09-21 14:59:12

End at: 2017-09-21 14:59:42

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2017-09-21 15:09:57

End at: 2017-09-21 15:10:27

Below is generated by plot.py at 2017-09-21 18:13:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 50.465 ms

Loss rate: 0.38%

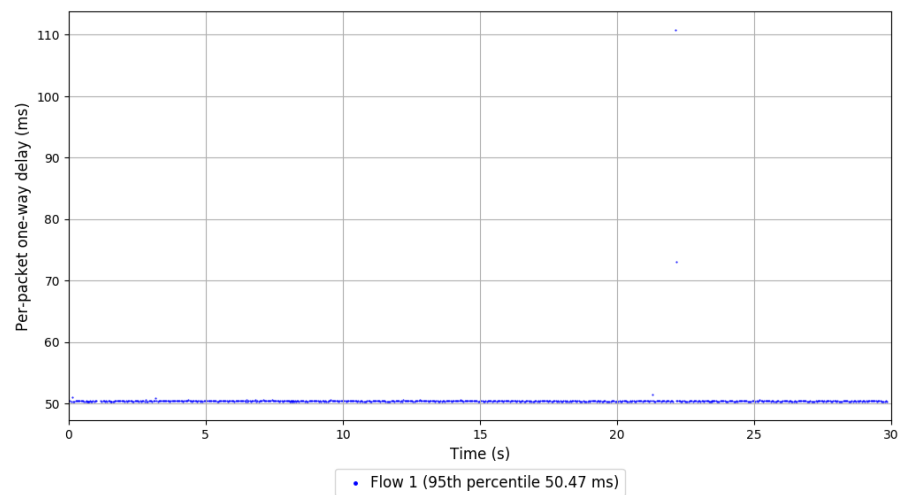
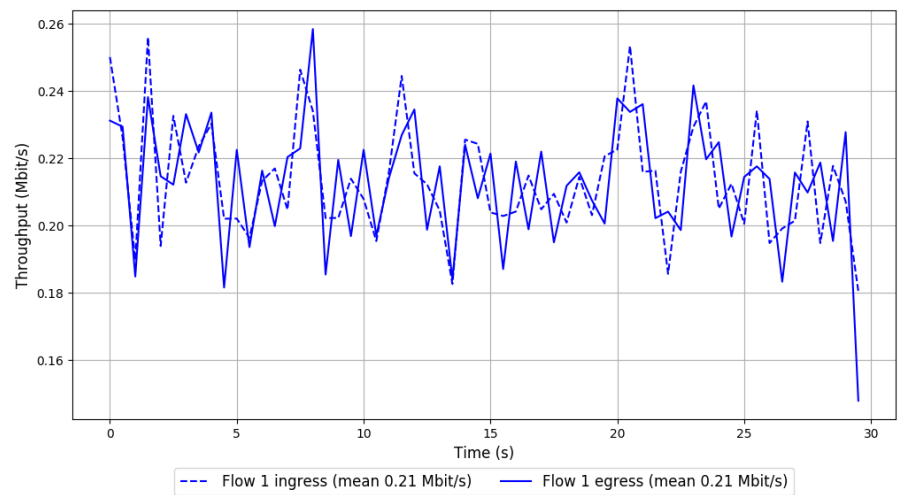
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 50.465 ms

Loss rate: 0.38%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2017-09-21 15:20:19

End at: 2017-09-21 15:20:49

Below is generated by plot.py at 2017-09-21 18:13:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 54.194 ms

Loss rate: 0.38%

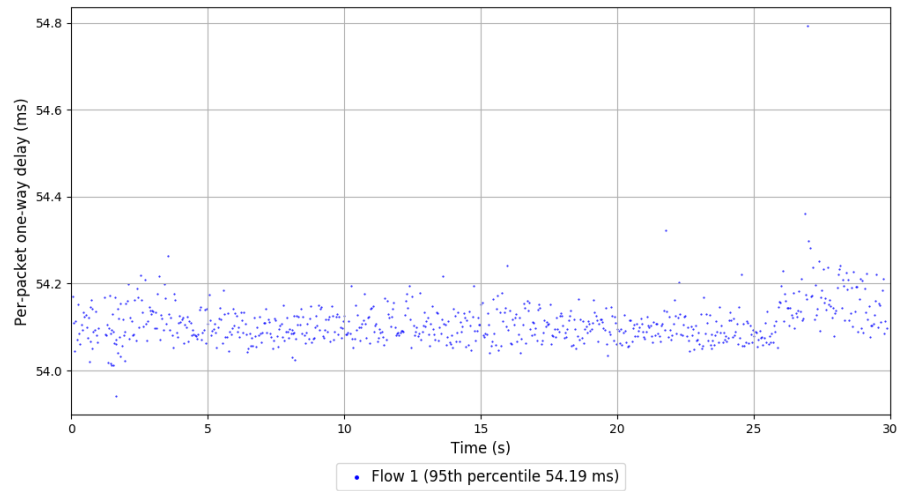
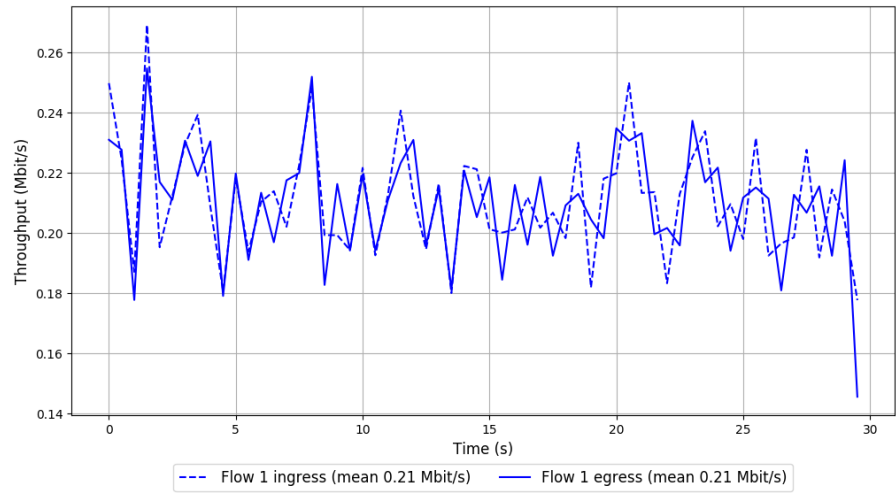
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 54.194 ms

Loss rate: 0.38%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2017-09-21 15:30:29

End at: 2017-09-21 15:30:59

Below is generated by plot.py at 2017-09-21 18:13:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 50.789 ms

Loss rate: 0.38%

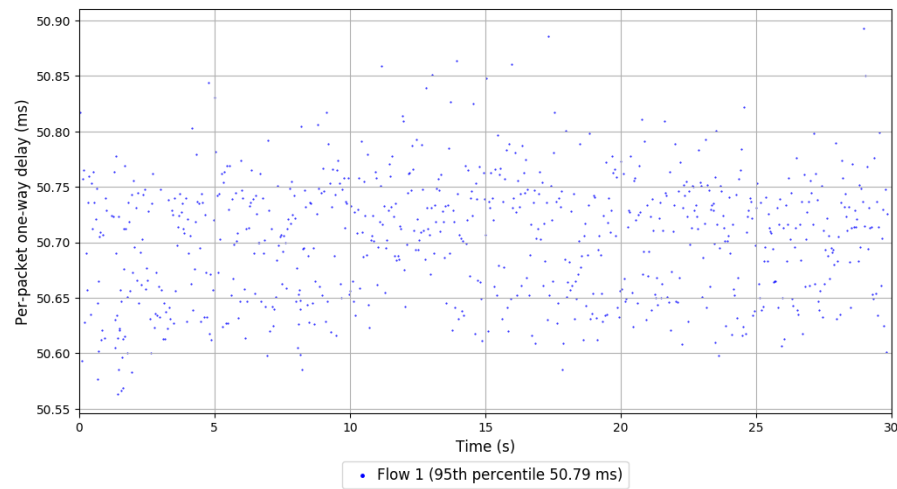
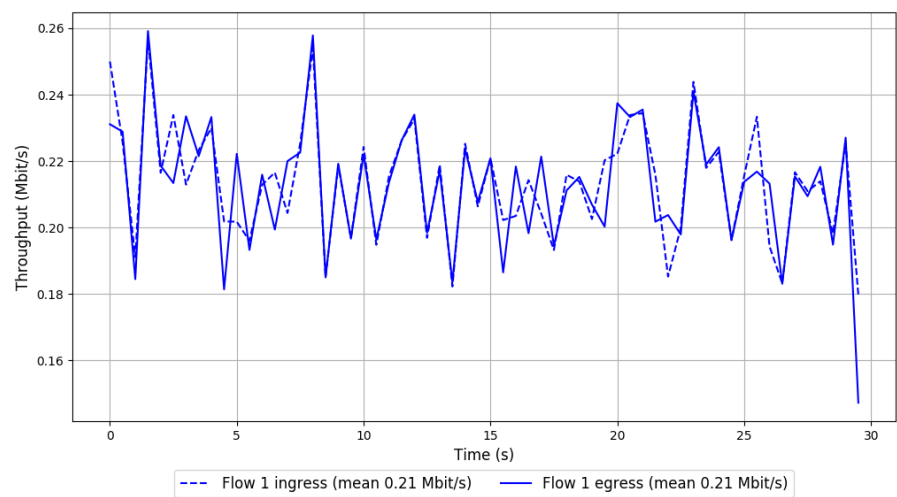
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 50.789 ms

Loss rate: 0.38%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2017-09-21 15:40:57

End at: 2017-09-21 15:41:27

Below is generated by plot.py at 2017-09-21 18:13:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 54.045 ms

Loss rate: 0.25%

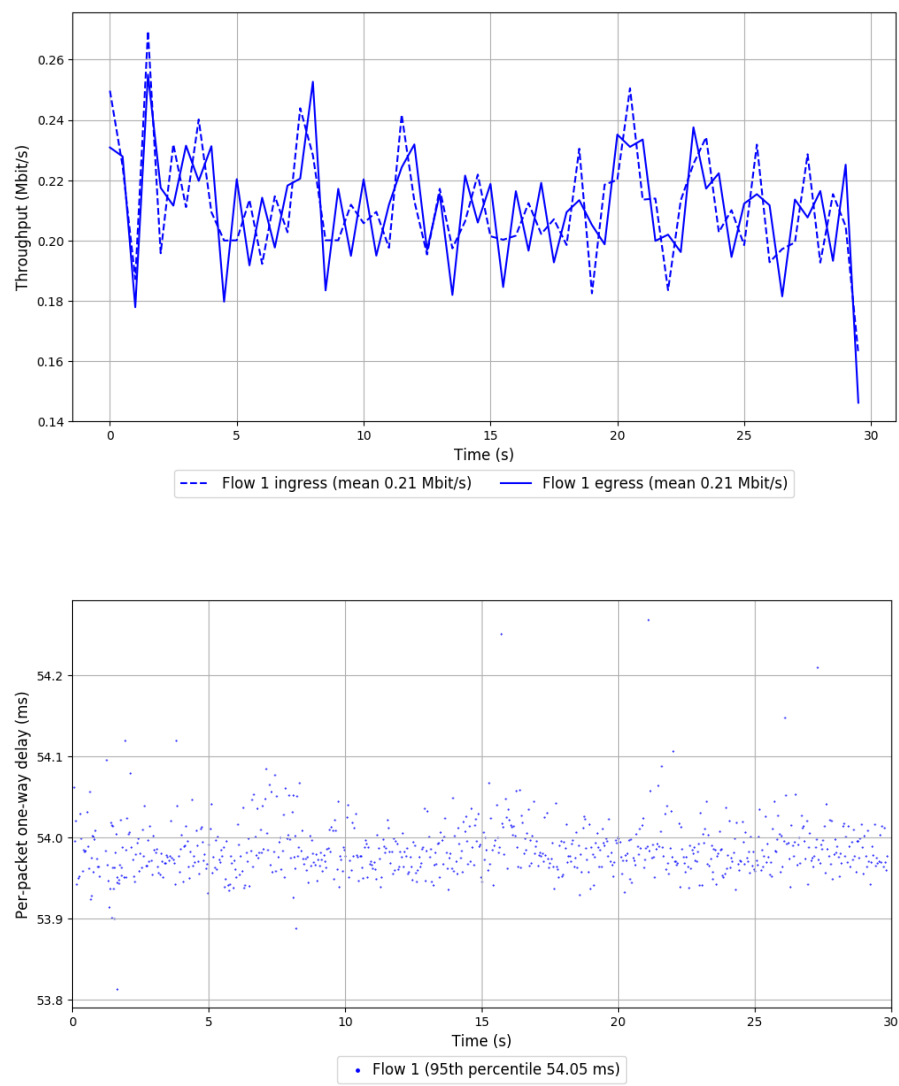
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 54.045 ms

Loss rate: 0.25%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2017-09-21 15:50:54

End at: 2017-09-21 15:51:24

Below is generated by plot.py at 2017-09-21 18:13:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 50.238 ms

Loss rate: 0.26%

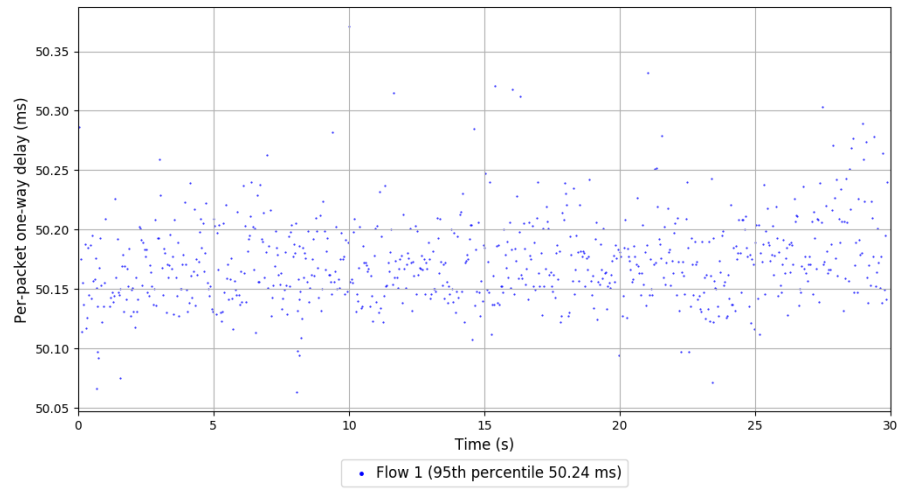
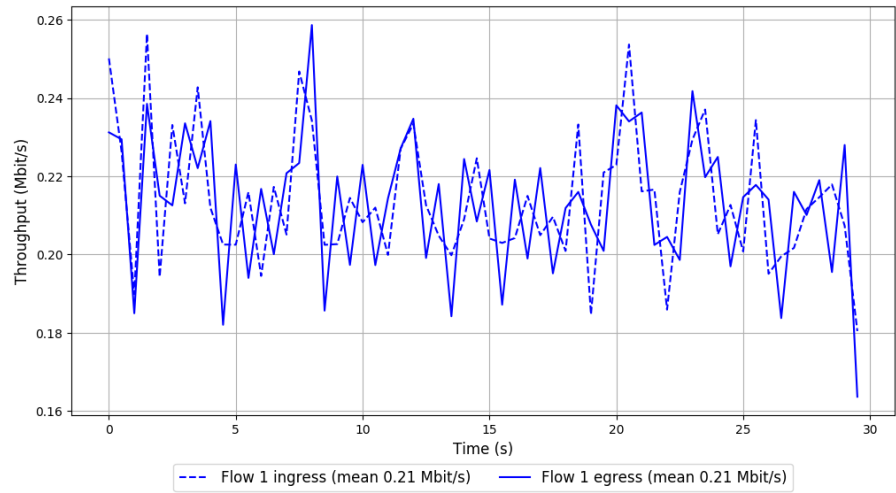
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 50.238 ms

Loss rate: 0.26%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2017-09-21 16:01:14

End at: 2017-09-21 16:01:44

Below is generated by plot.py at 2017-09-21 18:13:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.284 ms

Loss rate: 0.38%

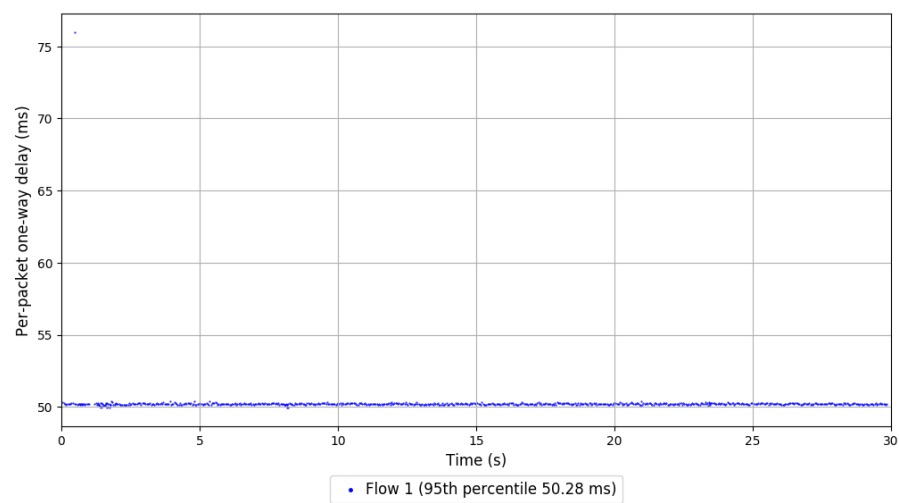
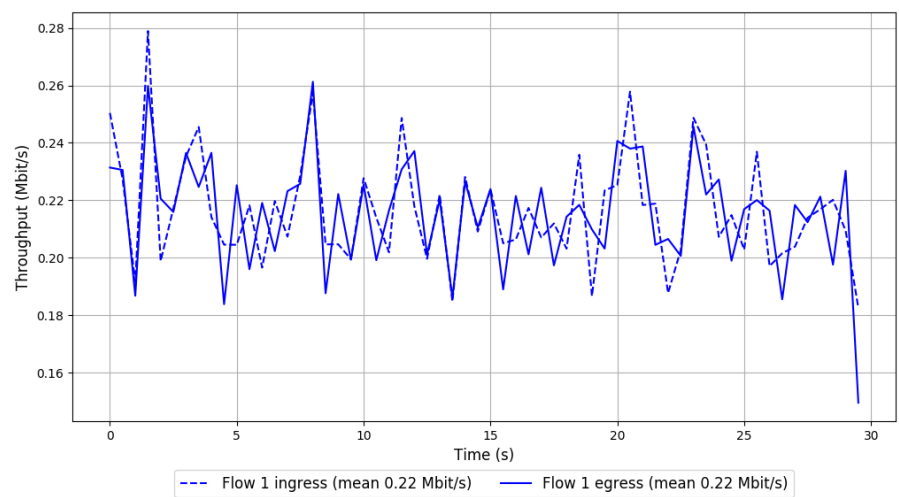
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.284 ms

Loss rate: 0.38%

Run 10: Report of SReAM — Data Link

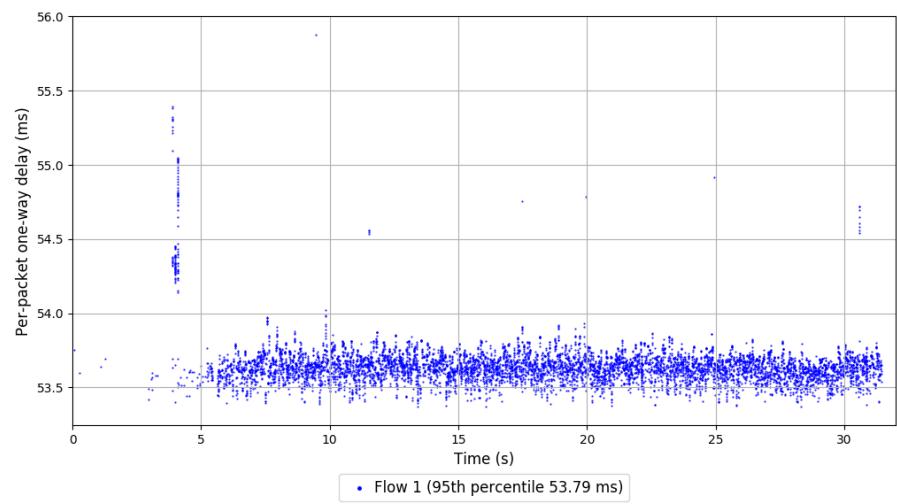
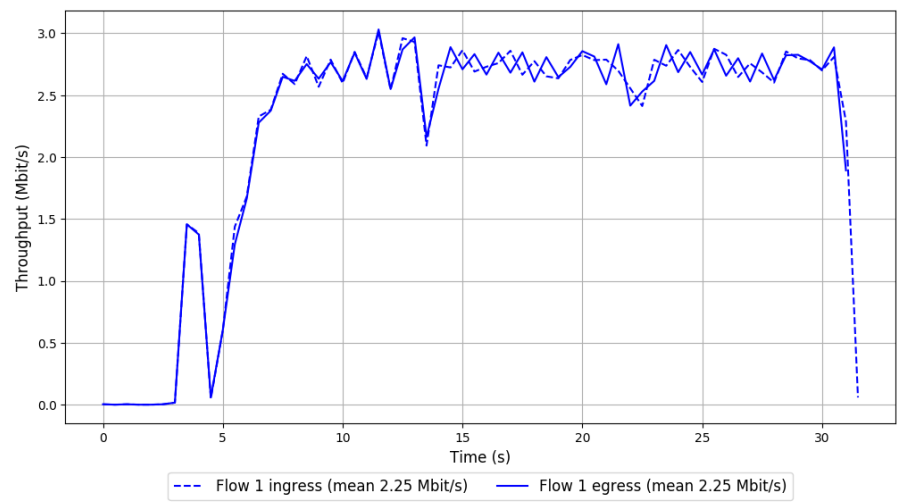


```
Run 1: Statistics of WebRTC media

Start at: 2017-09-21 14:23:26
End at: 2017-09-21 14:23:56

# Below is generated by plot.py at 2017-09-21 18:13:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.25 Mbit/s
95th percentile per-packet one-way delay: 53.787 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 2.25 Mbit/s
95th percentile per-packet one-way delay: 53.787 ms
Loss rate: 0.42%
```

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2017-09-21 14:34:15

End at: 2017-09-21 14:34:45

Below is generated by plot.py at 2017-09-21 18:13:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 54.409 ms

Loss rate: 0.44%

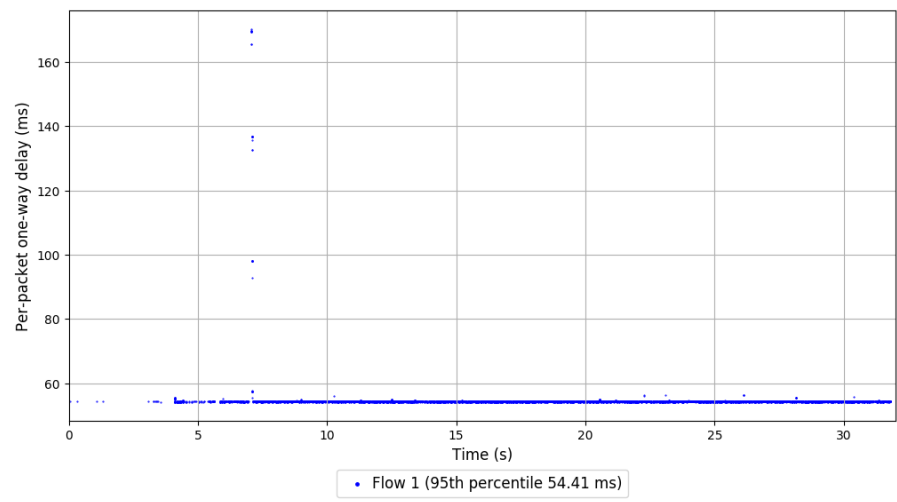
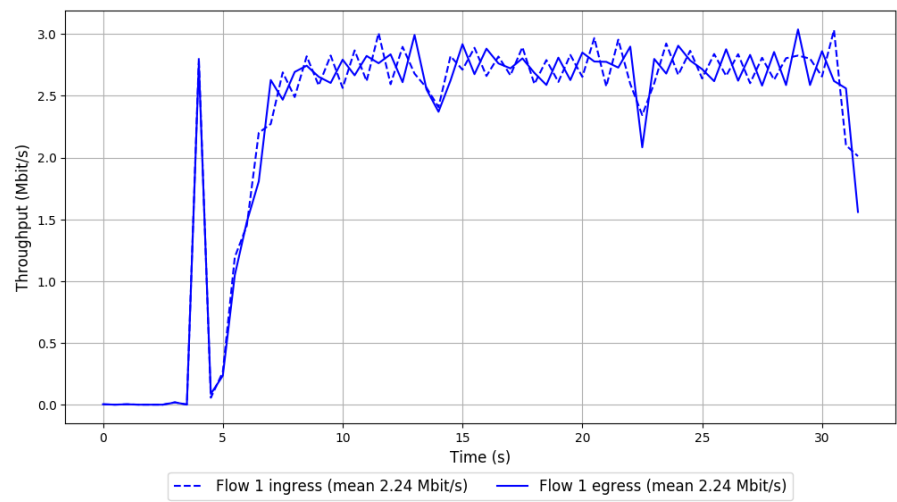
-- Flow 1:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 54.409 ms

Loss rate: 0.44%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2017-09-21 14:44:44

End at: 2017-09-21 14:45:14

Below is generated by plot.py at 2017-09-21 18:13:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.23 Mbit/s

95th percentile per-packet one-way delay: 50.516 ms

Loss rate: 0.40%

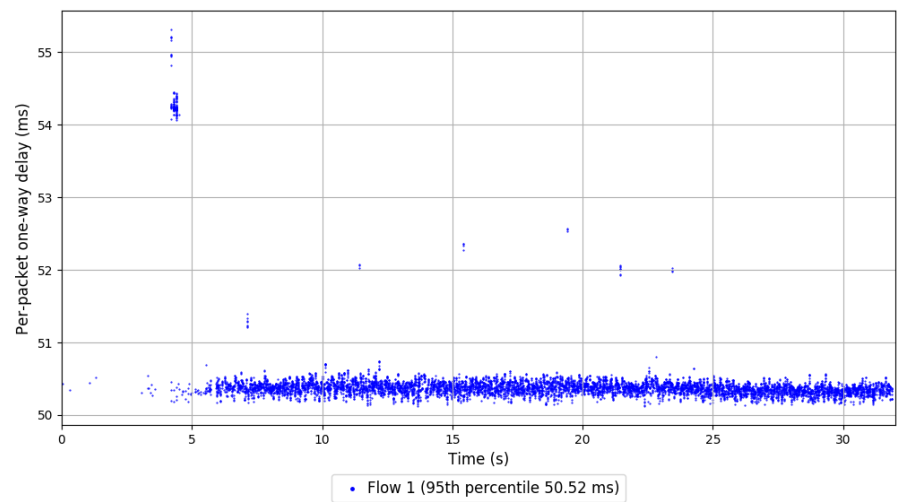
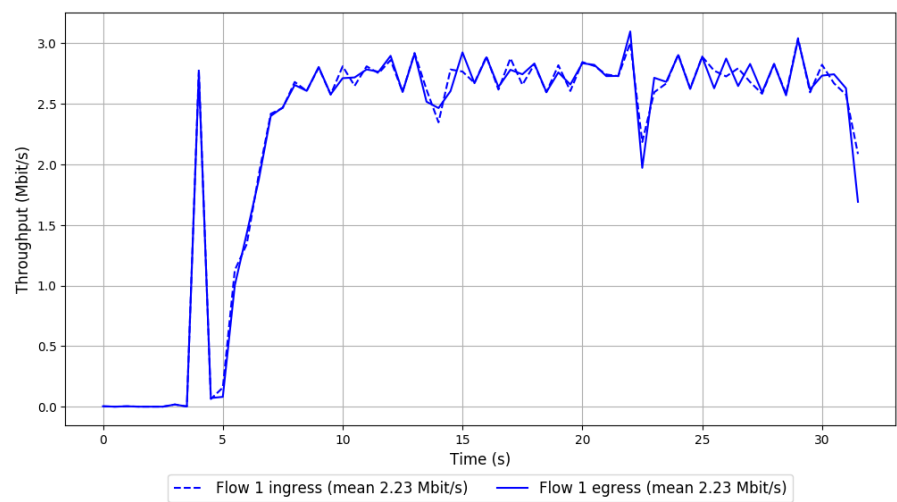
-- Flow 1:

Average throughput: 2.23 Mbit/s

95th percentile per-packet one-way delay: 50.516 ms

Loss rate: 0.40%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2017-09-21 14:55:12

End at: 2017-09-21 14:55:42

Below is generated by plot.py at 2017-09-21 18:13:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 50.520 ms

Loss rate: 0.30%

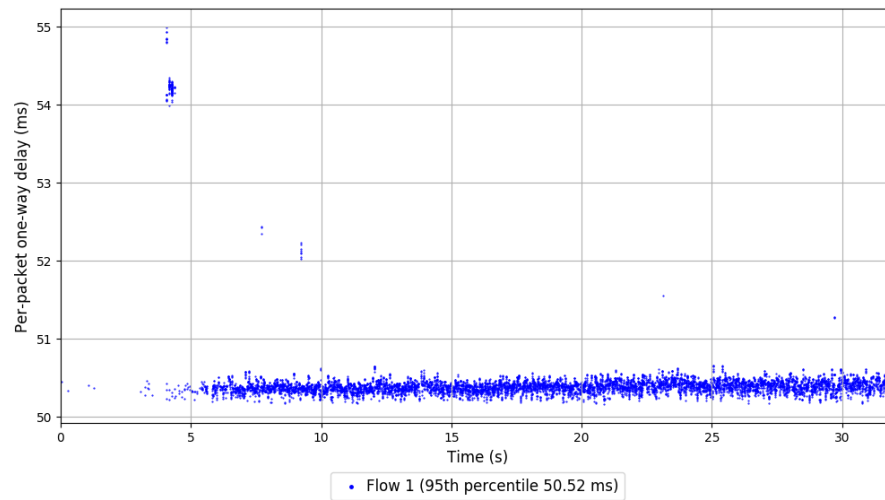
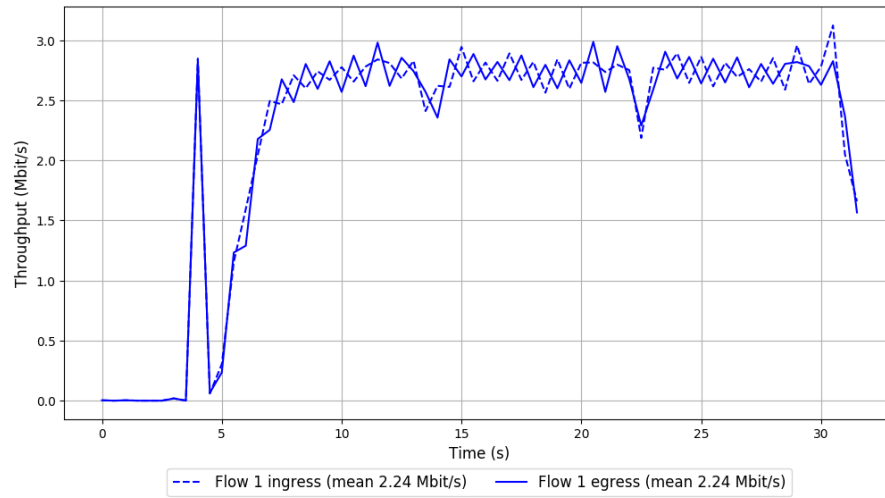
-- Flow 1:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 50.520 ms

Loss rate: 0.30%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2017-09-21 15:06:01

End at: 2017-09-21 15:06:31

Below is generated by plot.py at 2017-09-21 18:13:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.24 Mbit/s

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

Loss rate: 0.42%

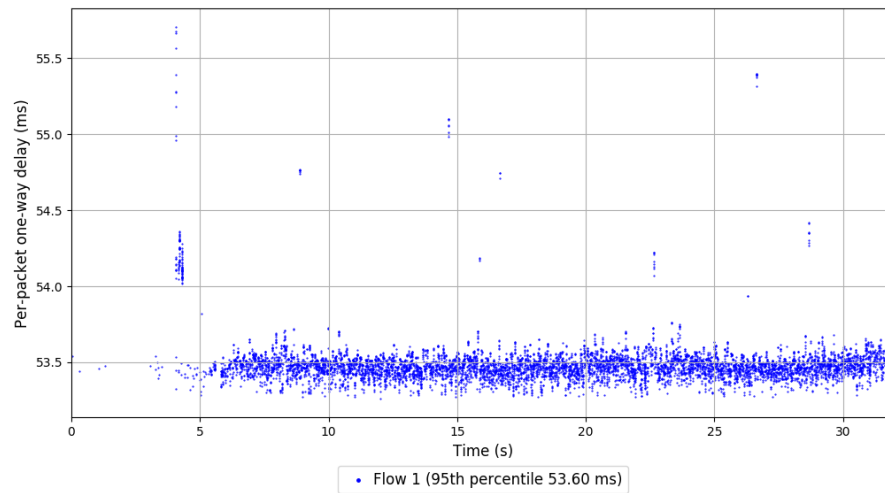
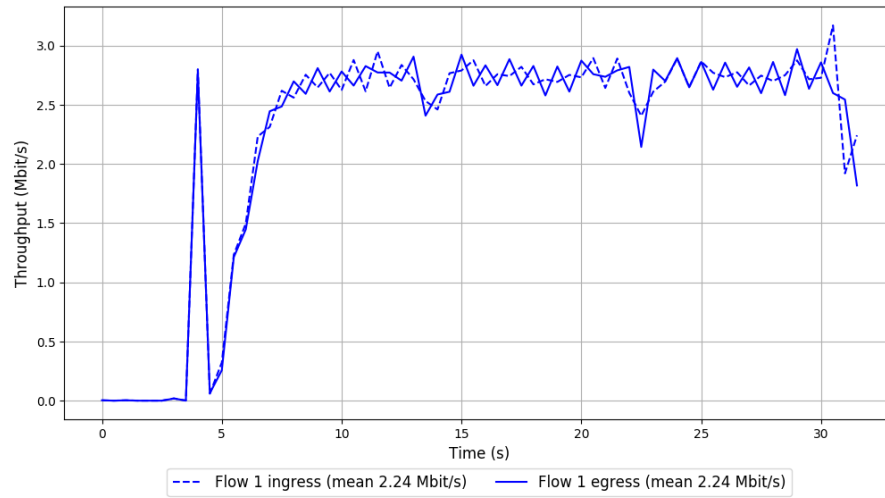
-- Flow 1:

Average throughput: 2.24 Mbit/s

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

Loss rate: 0.42%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2017-09-21 15:16:44

End at: 2017-09-21 15:17:14

Below is generated by plot.py at 2017-09-21 18:13:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 54.323 ms

Loss rate: 0.45%

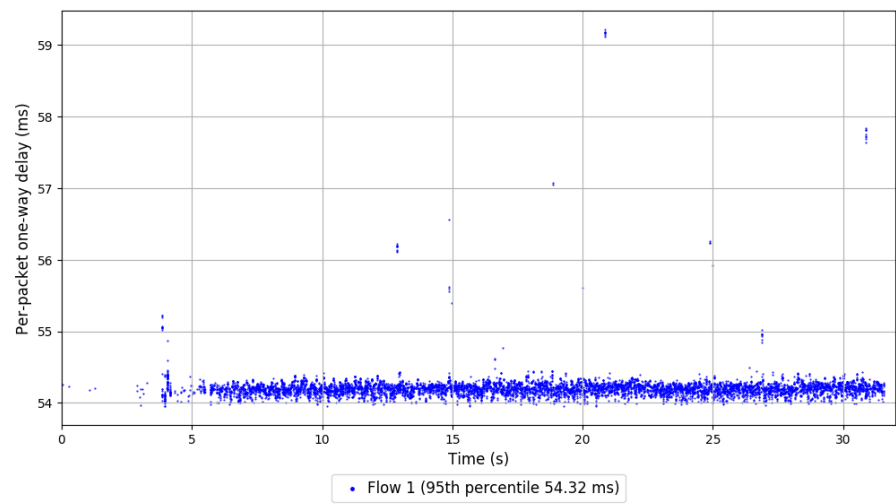
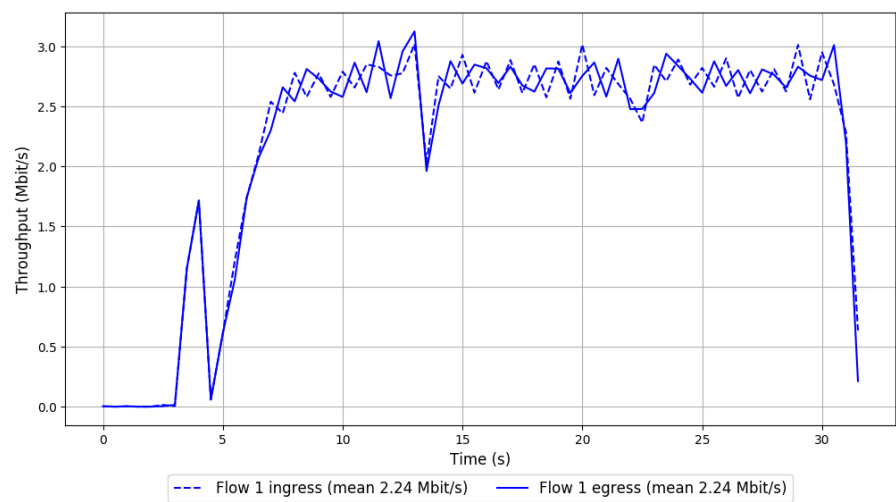
-- Flow 1:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 54.323 ms

Loss rate: 0.45%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2017-09-21 15:26:30

End at: 2017-09-21 15:27:00

Below is generated by plot.py at 2017-09-21 18:13:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 53.532 ms

Loss rate: 0.43%

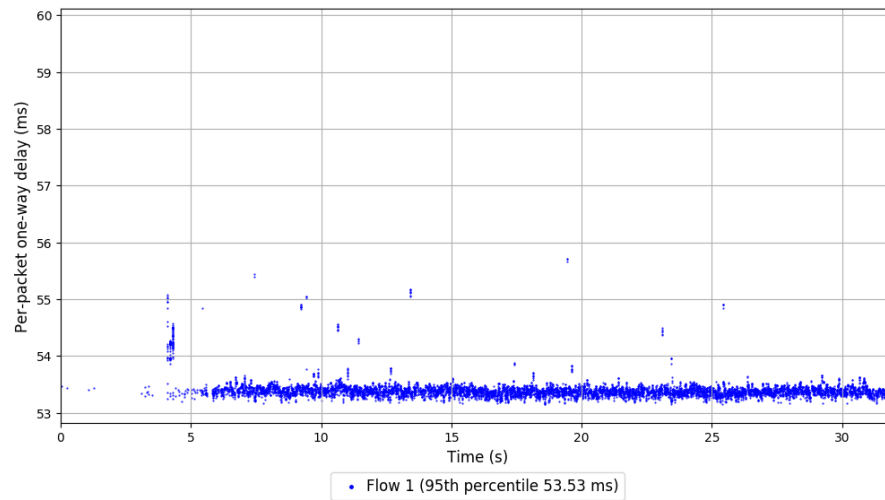
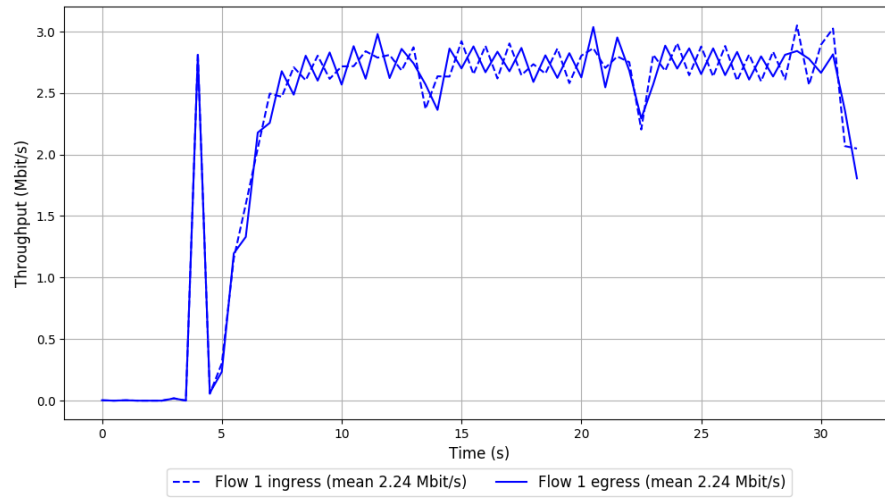
-- Flow 1:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 53.532 ms

Loss rate: 0.43%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2017-09-21 15:36:56

End at: 2017-09-21 15:37:26

Below is generated by plot.py at 2017-09-21 18:13:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.24 Mbit/s

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

Loss rate: 0.30%

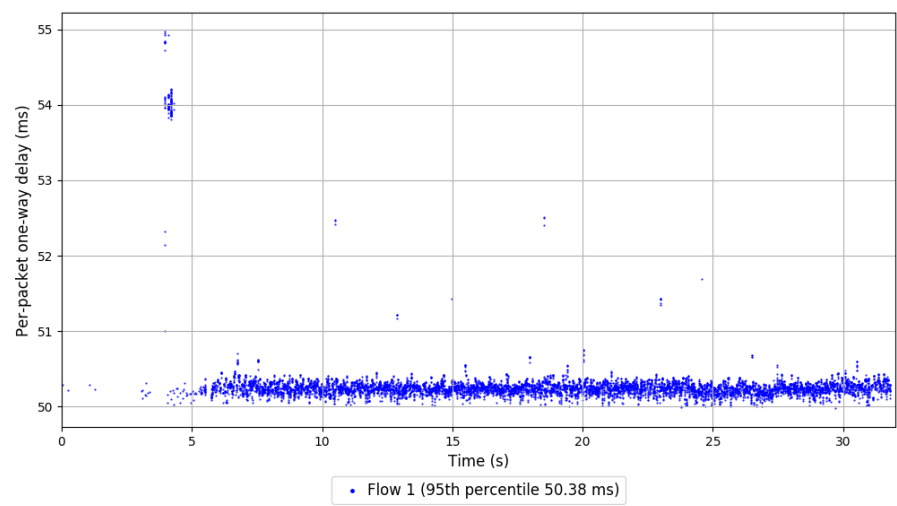
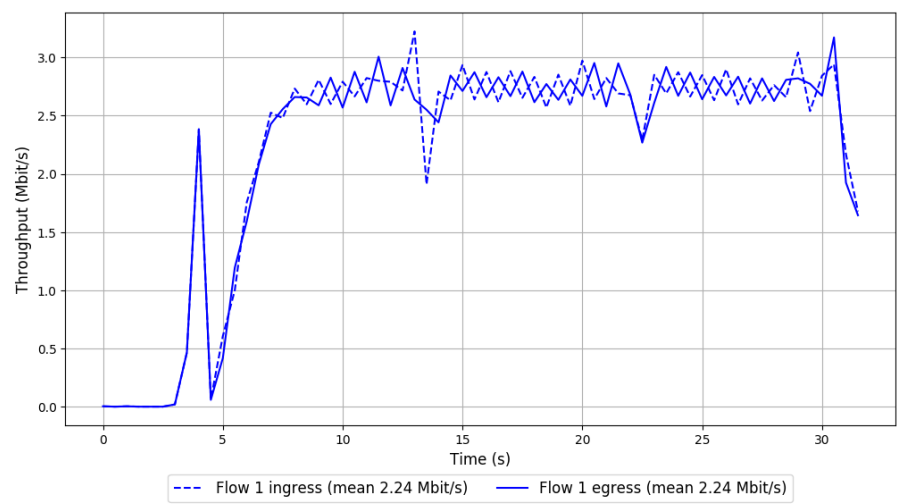
-- Flow 1:

Average throughput: 2.24 Mbit/s

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

Loss rate: 0.30%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2017-09-21 15:47:19

End at: 2017-09-21 15:47:49

Below is generated by plot.py at 2017-09-21 18:13:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.27 Mbit/s

95th percentile per-packet one-way delay: 53.528 ms

Loss rate: 0.45%

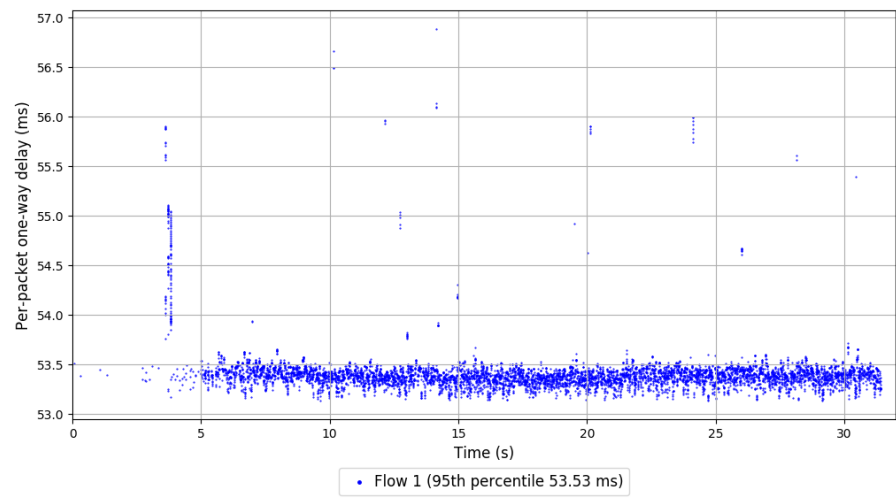
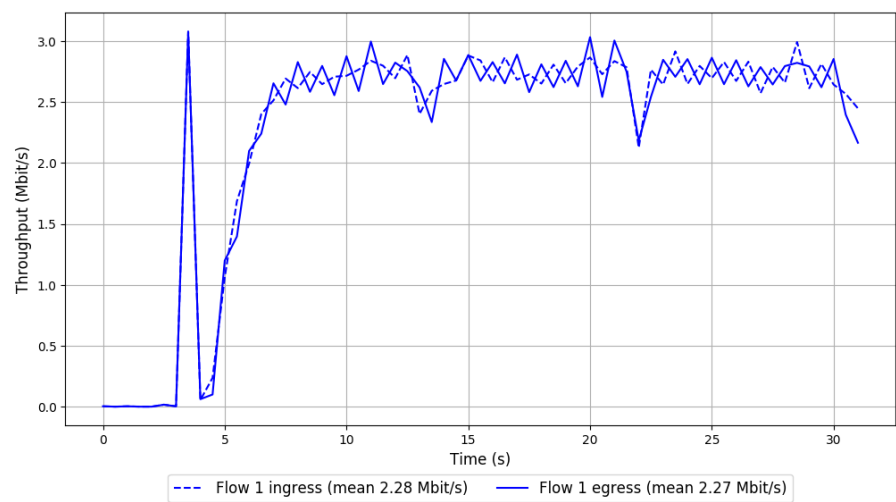
-- Flow 1:

Average throughput: 2.27 Mbit/s

95th percentile per-packet one-way delay: 53.528 ms

Loss rate: 0.45%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2017-09-21 15:57:17

End at: 2017-09-21 15:57:47

Below is generated by plot.py at 2017-09-21 18:13:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.23 Mbit/s

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

Loss rate: 0.29%

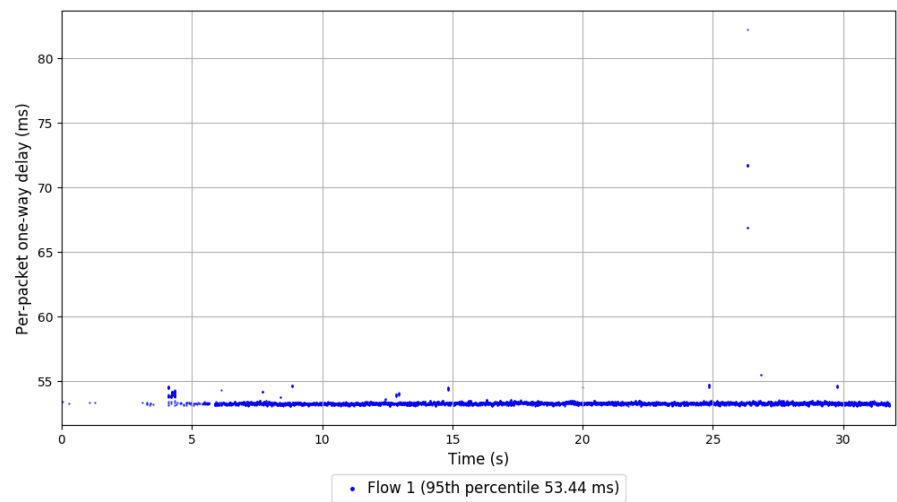
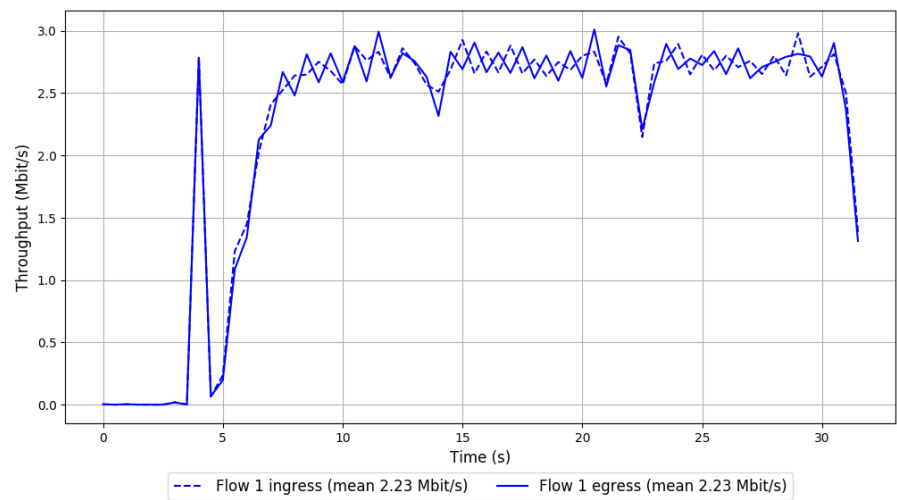
-- Flow 1:

Average throughput: 2.23 Mbit/s

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

Loss rate: 0.29%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2017-09-21 14:32:08

End at: 2017-09-21 14:32:38

Below is generated by plot.py at 2017-09-21 18:13:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.54 Mbit/s

95th percentile per-packet one-way delay: 54.943 ms

Loss rate: 0.98%

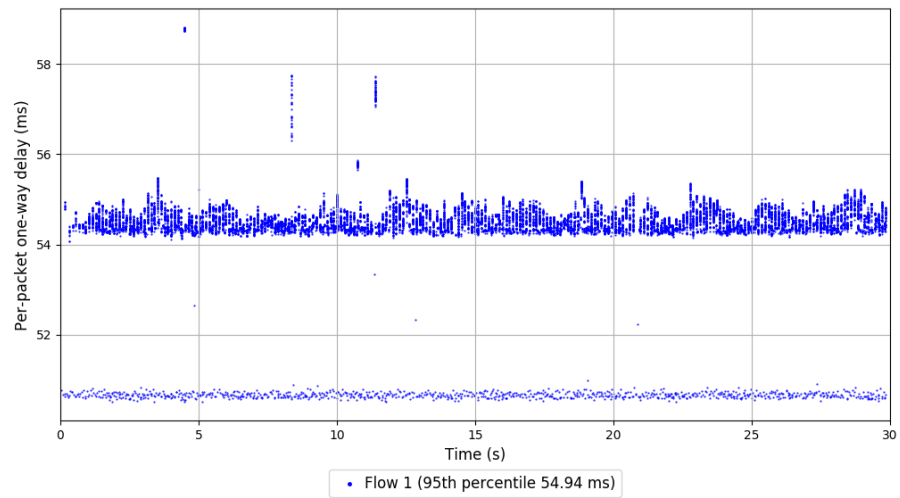
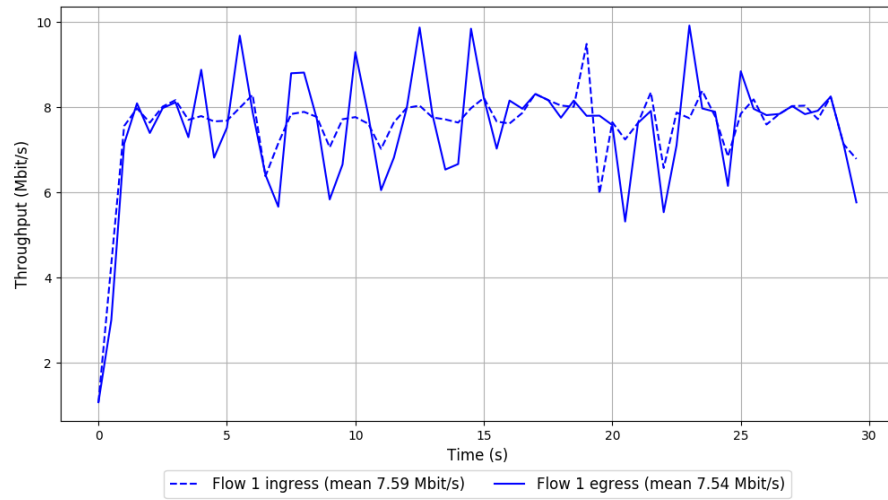
-- Flow 1:

Average throughput: 7.54 Mbit/s

95th percentile per-packet one-way delay: 54.943 ms

Loss rate: 0.98%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2017-09-21 14:42:39

End at: 2017-09-21 14:43:09

Below is generated by plot.py at 2017-09-21 18:13:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.83 Mbit/s

95th percentile per-packet one-way delay: 54.948 ms

Loss rate: 0.71%

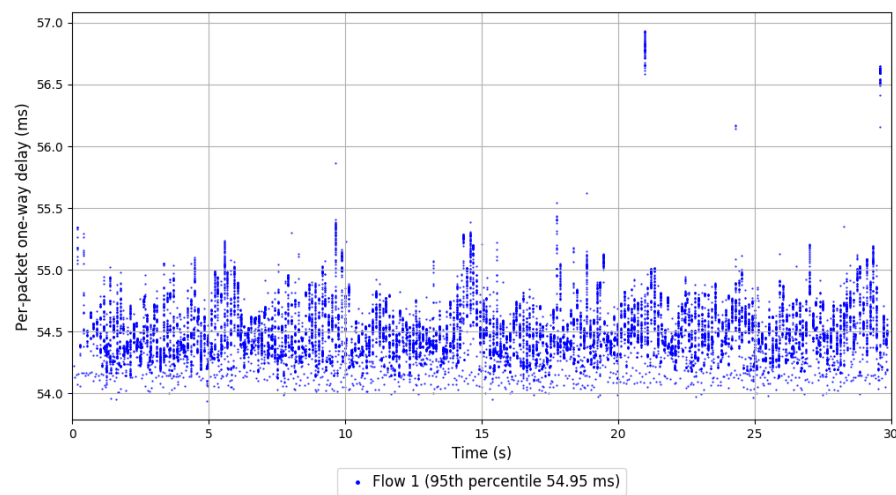
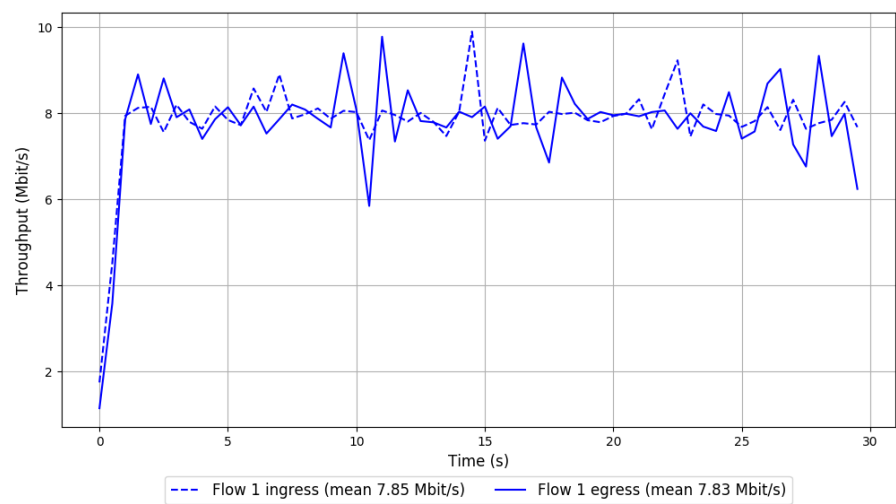
-- Flow 1:

Average throughput: 7.83 Mbit/s

95th percentile per-packet one-way delay: 54.948 ms

Loss rate: 0.71%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2017-09-21 14:53:07

End at: 2017-09-21 14:53:37

Below is generated by plot.py at 2017-09-21 18:13:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.36 Mbit/s

95th percentile per-packet one-way delay: 54.902 ms

Loss rate: 1.00%

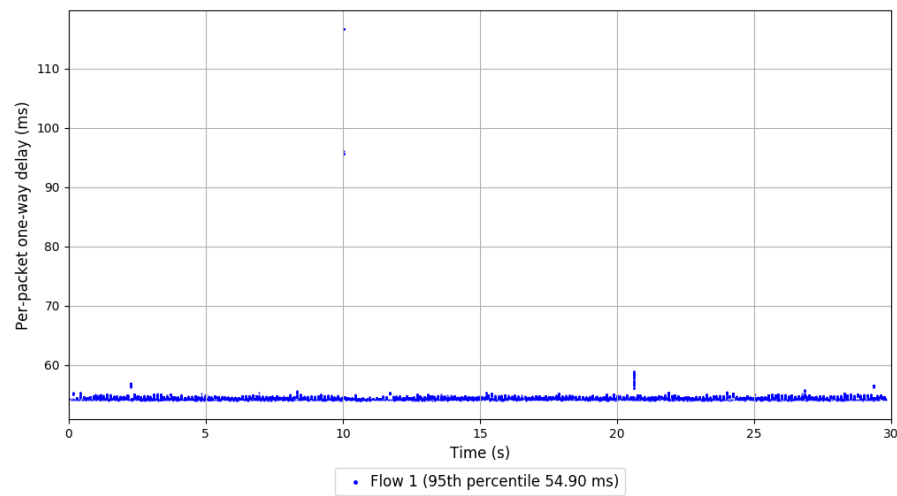
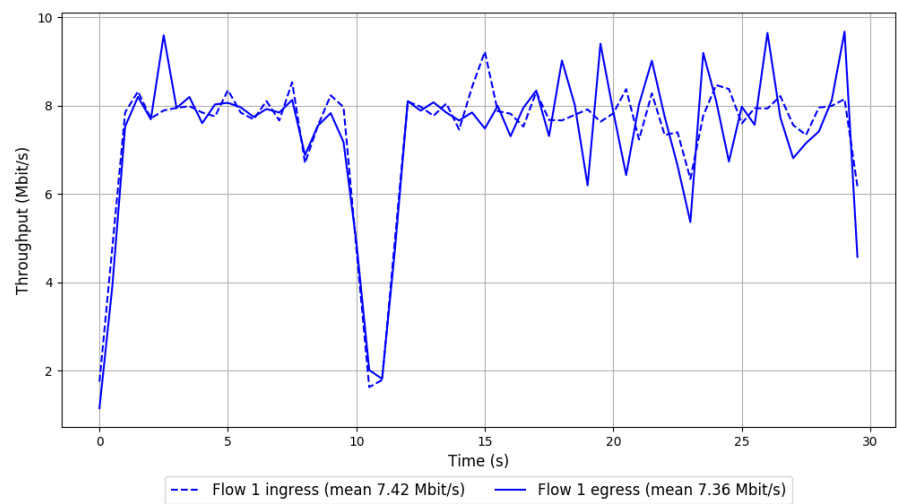
-- Flow 1:

Average throughput: 7.36 Mbit/s

95th percentile per-packet one-way delay: 54.902 ms

Loss rate: 1.00%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2017-09-21 15:03:55

End at: 2017-09-21 15:04:25

Below is generated by plot.py at 2017-09-21 18:13:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.52 Mbit/s

95th percentile per-packet one-way delay: 55.160 ms

Loss rate: 0.61%

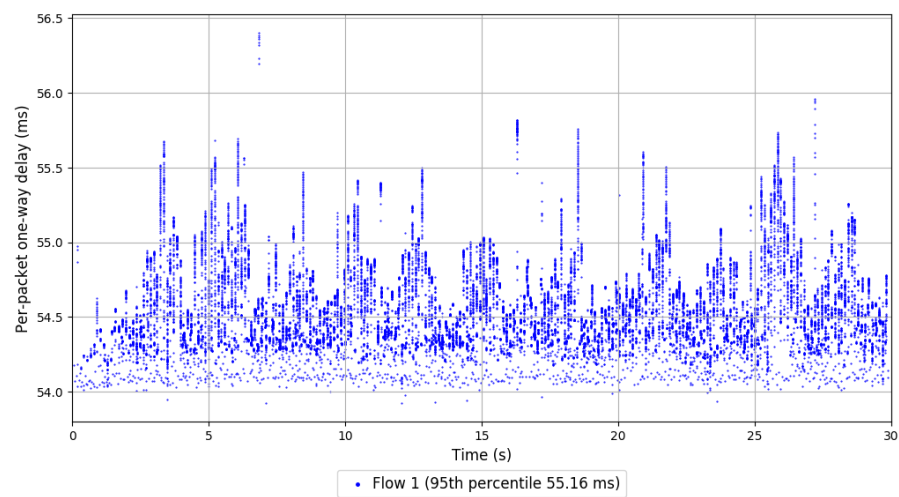
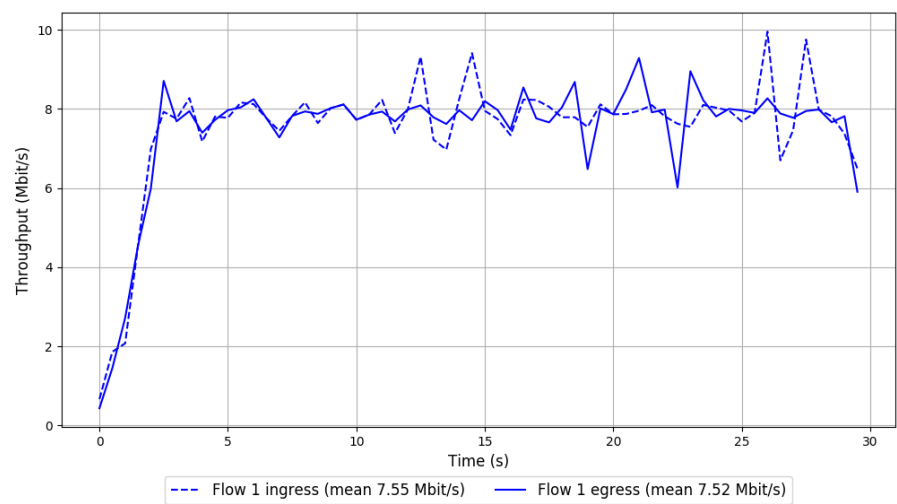
-- Flow 1:

Average throughput: 7.52 Mbit/s

95th percentile per-packet one-way delay: 55.160 ms

Loss rate: 0.61%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2017-09-21 15:14:40

End at: 2017-09-21 15:15:10

Below is generated by plot.py at 2017-09-21 18:13:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.78 Mbit/s

95th percentile per-packet one-way delay: 54.970 ms

Loss rate: 0.64%

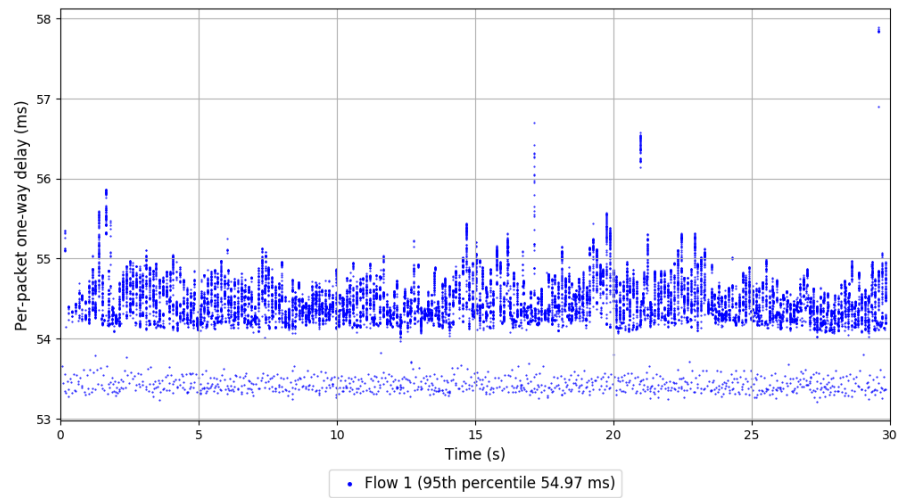
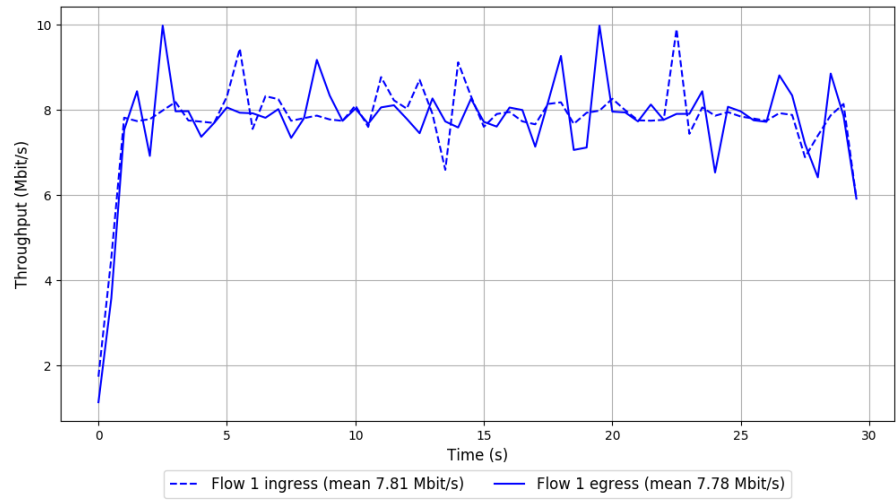
-- Flow 1:

Average throughput: 7.78 Mbit/s

95th percentile per-packet one-way delay: 54.970 ms

Loss rate: 0.64%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2017-09-21 15:24:26

End at: 2017-09-21 15:24:56

Below is generated by plot.py at 2017-09-21 18:13:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.66 Mbit/s

95th percentile per-packet one-way delay: 54.770 ms

Loss rate: 0.31%

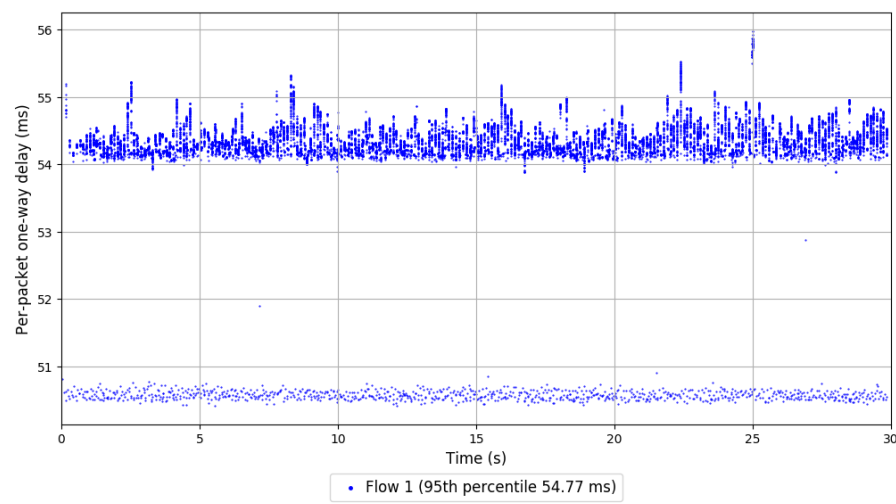
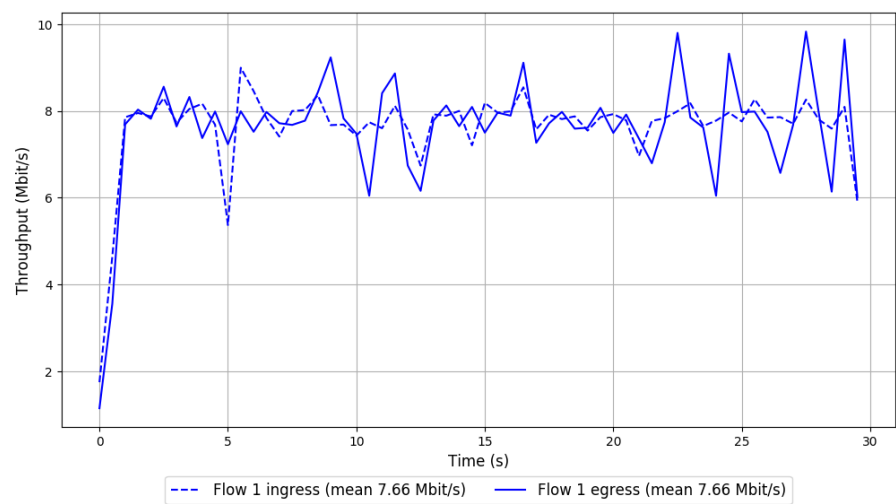
-- Flow 1:

Average throughput: 7.66 Mbit/s

95th percentile per-packet one-way delay: 54.770 ms

Loss rate: 0.31%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2017-09-21 15:34:50

End at: 2017-09-21 15:35:20

Below is generated by plot.py at 2017-09-21 18:13:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.71 Mbit/s

95th percentile per-packet one-way delay: 54.681 ms

Loss rate: 0.74%

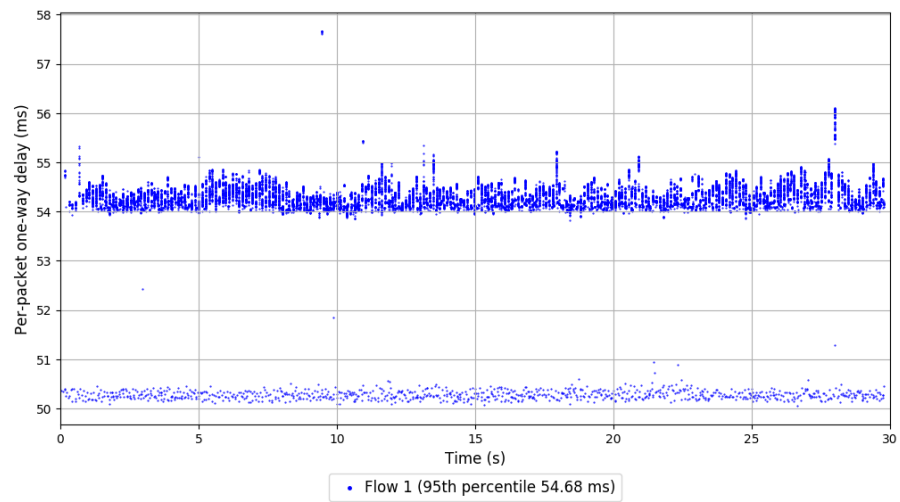
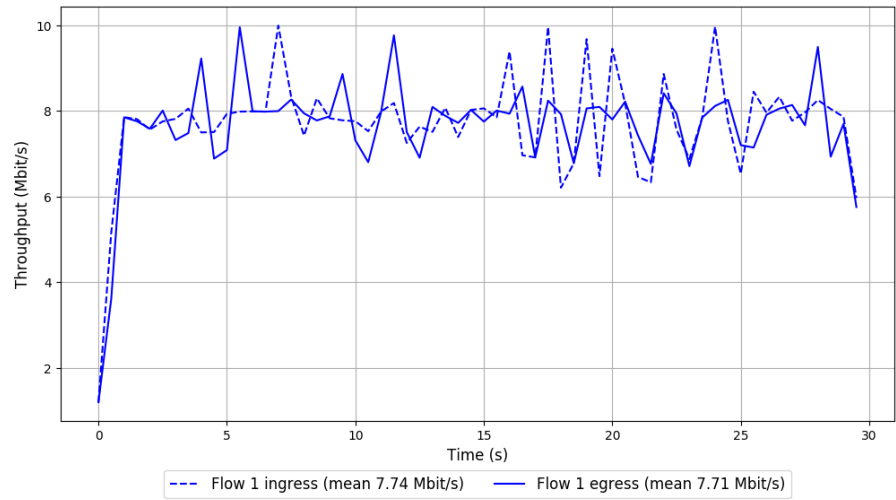
-- Flow 1:

Average throughput: 7.71 Mbit/s

95th percentile per-packet one-way delay: 54.681 ms

Loss rate: 0.74%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2017-09-21 15:45:15

End at: 2017-09-21 15:45:45

Below is generated by plot.py at 2017-09-21 18:13:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.87 Mbit/s

95th percentile per-packet one-way delay: 54.646 ms

Loss rate: 0.87%

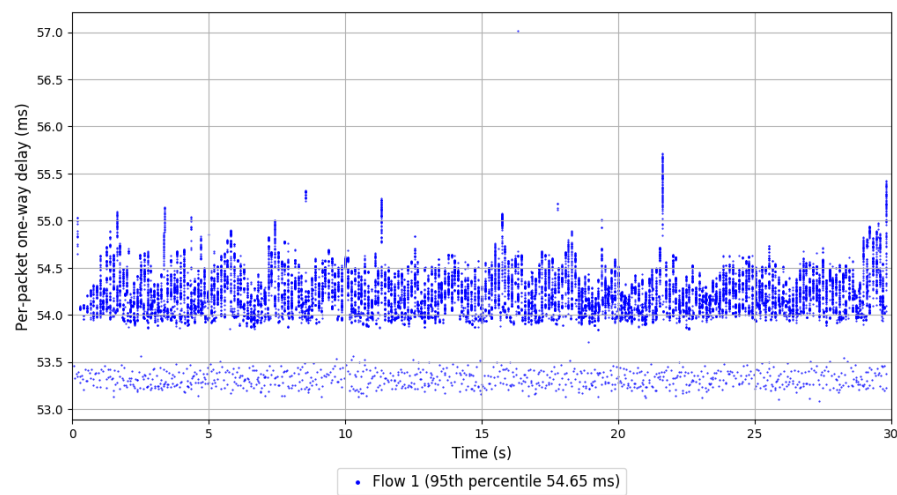
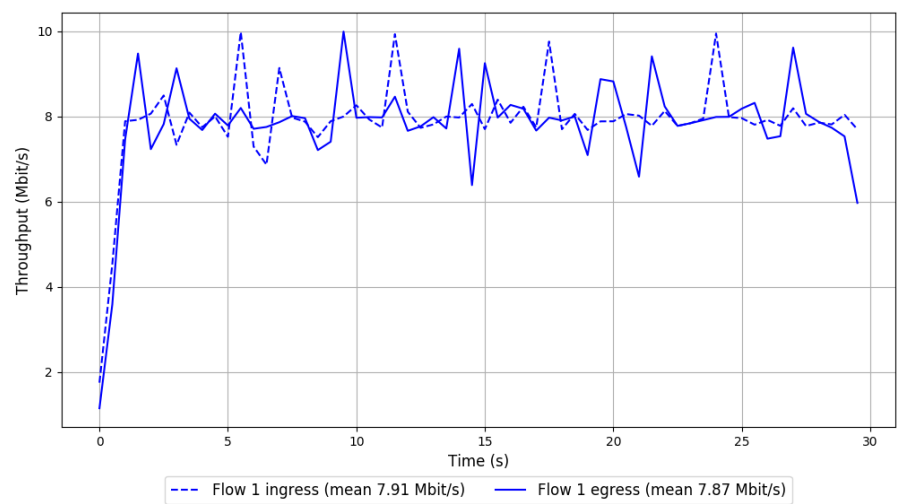
-- Flow 1:

Average throughput: 7.87 Mbit/s

95th percentile per-packet one-way delay: 54.646 ms

Loss rate: 0.87%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2017-09-21 15:55:12

End at: 2017-09-21 15:55:42

Below is generated by plot.py at 2017-09-21 18:13:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.68 Mbit/s

95th percentile per-packet one-way delay: 54.701 ms

Loss rate: 0.44%

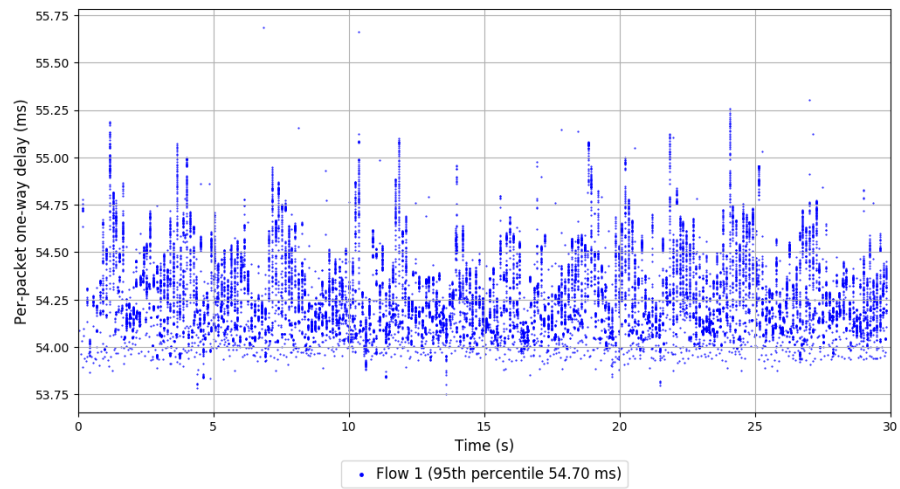
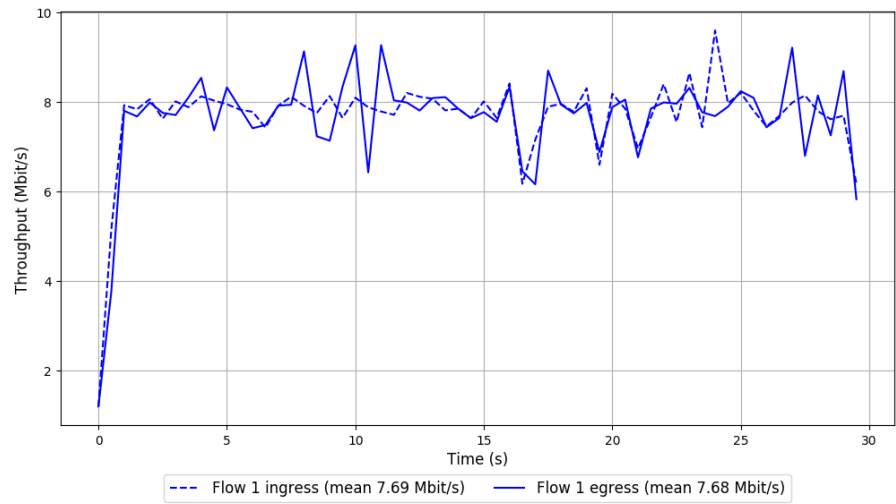
-- Flow 1:

Average throughput: 7.68 Mbit/s

95th percentile per-packet one-way delay: 54.701 ms

Loss rate: 0.44%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2017-09-21 16:05:36

End at: 2017-09-21 16:06:06

Below is generated by plot.py at 2017-09-21 18:13:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.72 Mbit/s

95th percentile per-packet one-way delay: 54.626 ms

Loss rate: 0.77%

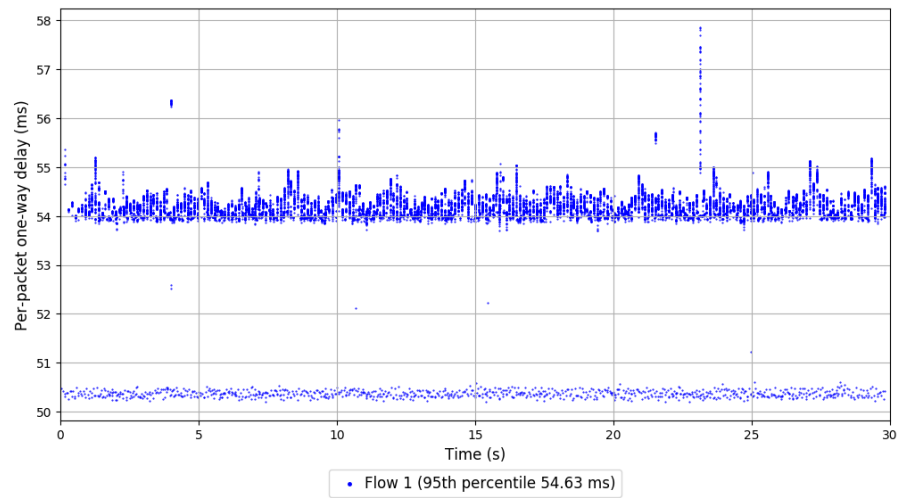
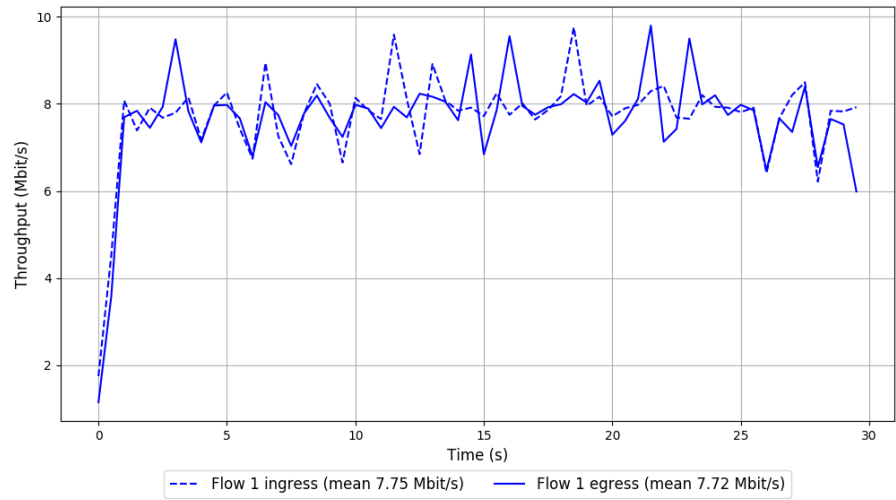
-- Flow 1:

Average throughput: 7.72 Mbit/s

95th percentile per-packet one-way delay: 54.626 ms

Loss rate: 0.77%

Run 10: Report of Sprout — Data Link

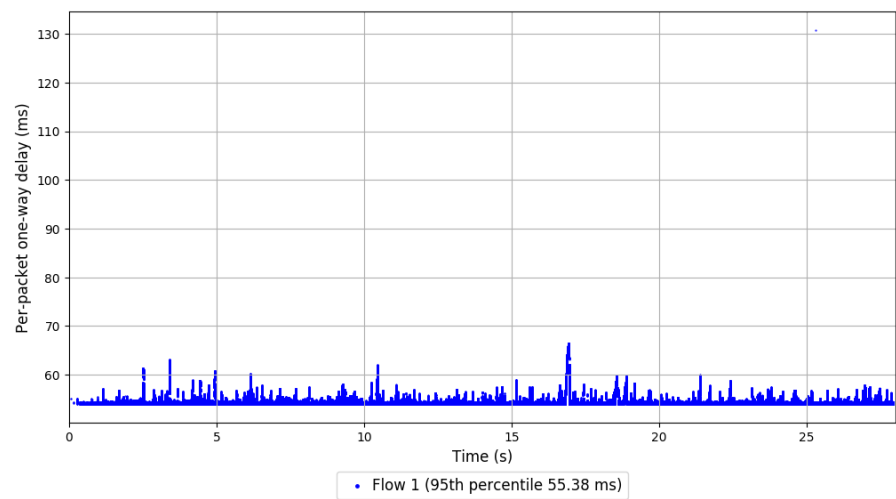
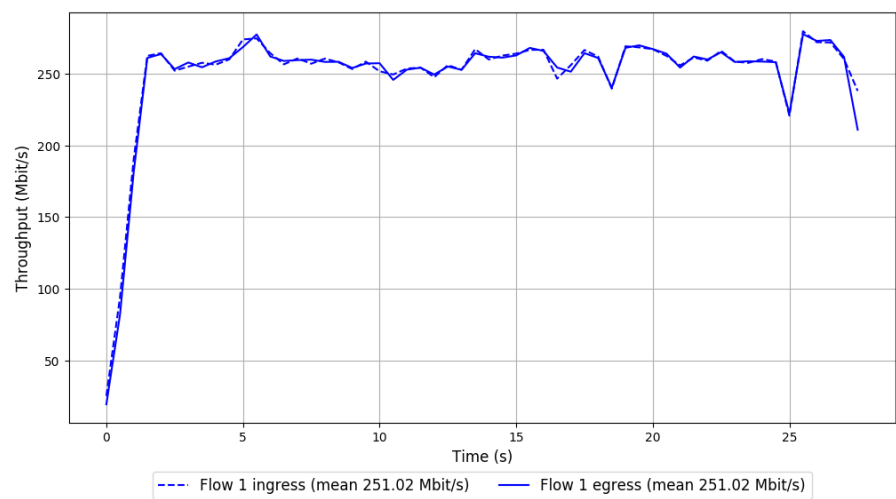


```
Run 1: Statistics of TaoVA-100x

Start at: 2017-09-21 14:28:42
End at: 2017-09-21 14:29:12

# Below is generated by plot.py at 2017-09-21 18:21:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 251.02 Mbit/s
95th percentile per-packet one-way delay: 55.378 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 251.02 Mbit/s
95th percentile per-packet one-way delay: 55.378 ms
Loss rate: 0.38%
```

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

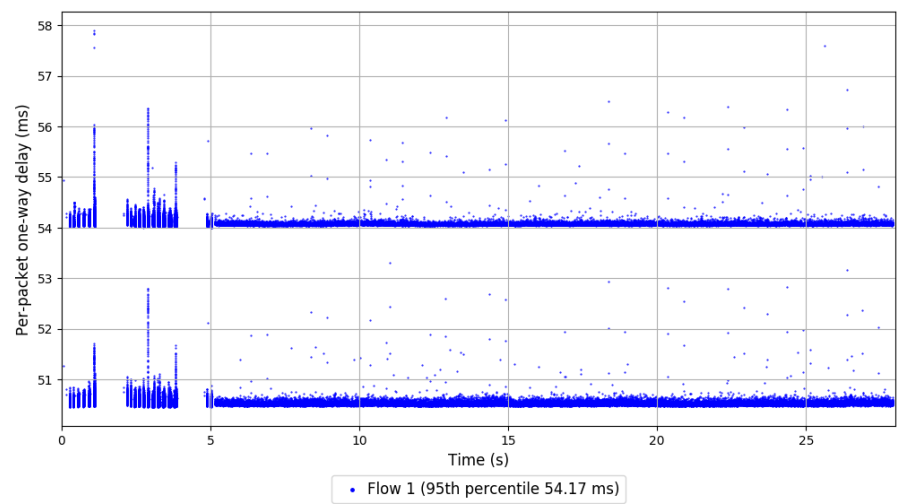
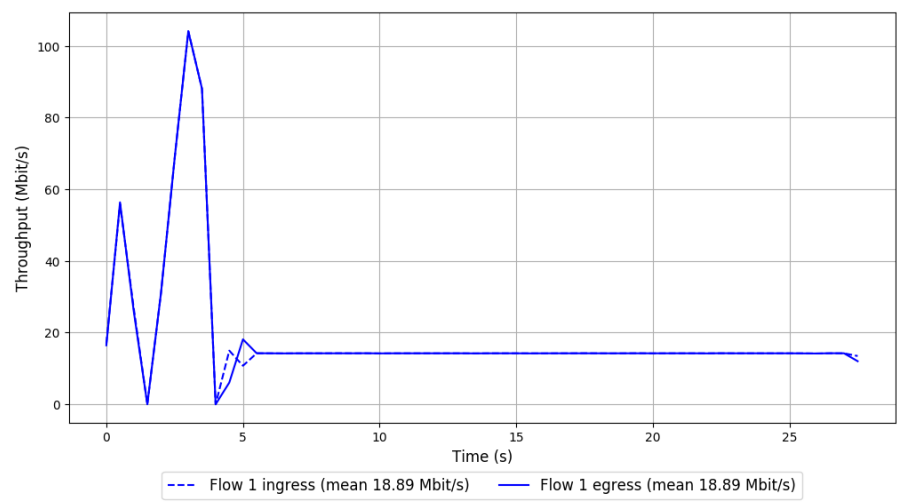


```
Run 2: Statistics of TaoVA-100x

Start at: 2017-09-21 14:39:33
End at: 2017-09-21 14:40:03

# Below is generated by plot.py at 2017-09-21 18:21:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 18.89 Mbit/s
95th percentile per-packet one-way delay: 54.166 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 18.89 Mbit/s
95th percentile per-packet one-way delay: 54.166 ms
Loss rate: 0.36%
```

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



Run 3: Statistics of TaoVA-100x

Start at: 2017-09-21 14:50:02

End at: 2017-09-21 14:50:32

Below is generated by plot.py at 2017-09-21 18:21:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 16.16 Mbit/s

95th percentile per-packet one-way delay: 54.107 ms

Loss rate: 0.33%

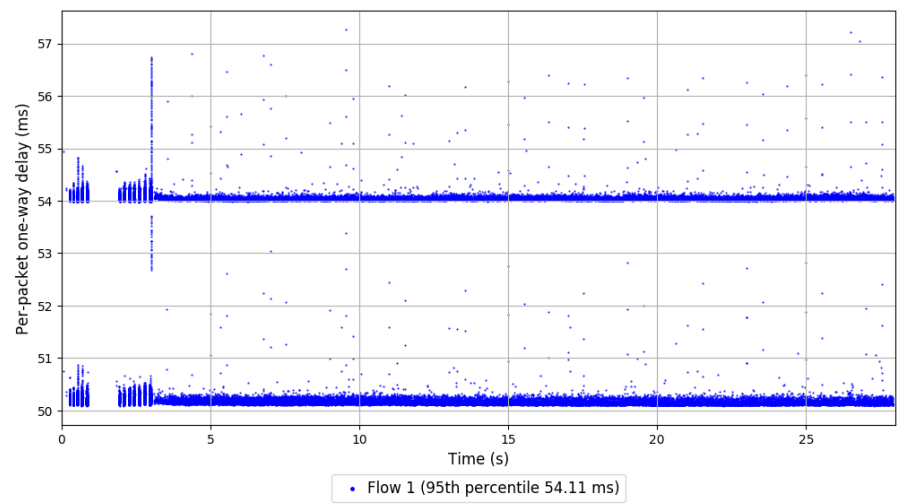
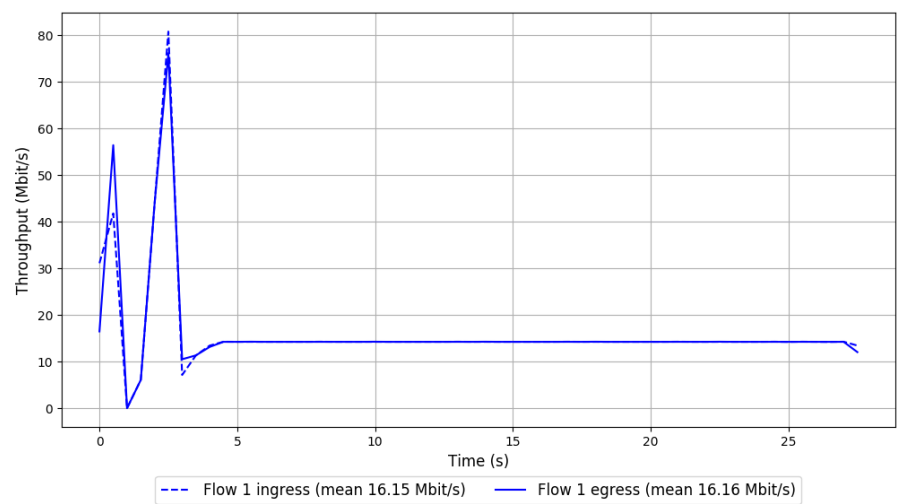
-- Flow 1:

Average throughput: 16.16 Mbit/s

95th percentile per-packet one-way delay: 54.107 ms

Loss rate: 0.33%

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



Run 4: Statistics of TaoVA-100x

Start at: 2017-09-21 15:00:29

End at: 2017-09-21 15:00:59

Below is generated by plot.py at 2017-09-21 18:21:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 241.76 Mbit/s

95th percentile per-packet one-way delay: 59.463 ms

Loss rate: 0.41%

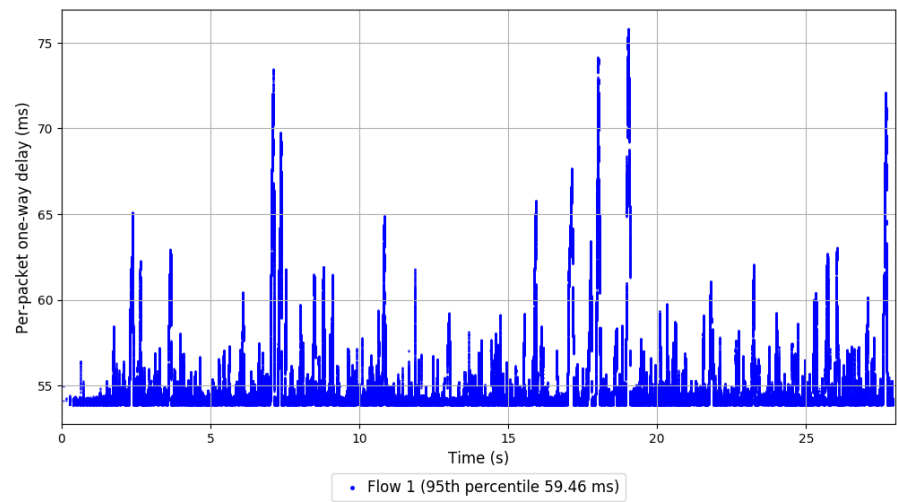
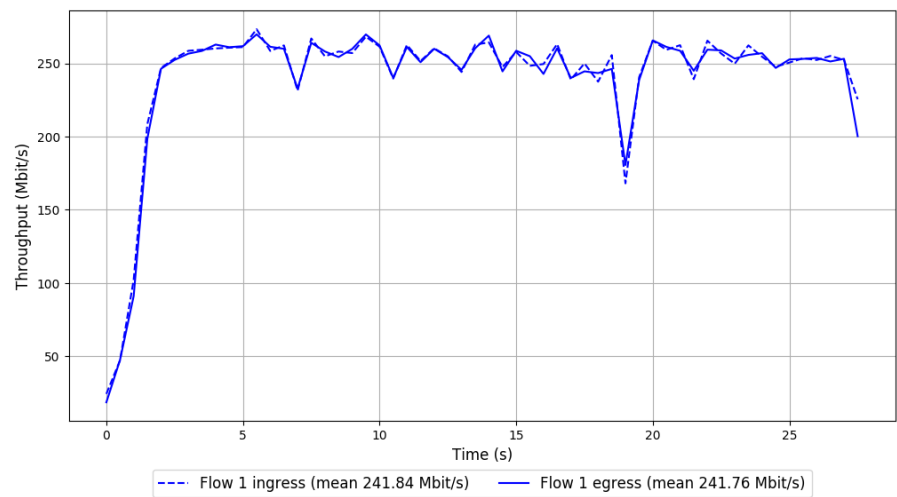
-- Flow 1:

Average throughput: 241.76 Mbit/s

95th percentile per-packet one-way delay: 59.463 ms

Loss rate: 0.41%

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



Run 5: Statistics of TaoVA-100x

Start at: 2017-09-21 15:11:15

End at: 2017-09-21 15:11:45

Below is generated by plot.py at 2017-09-21 18:21:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 245.63 Mbit/s

95th percentile per-packet one-way delay: 54.928 ms

Loss rate: 0.33%

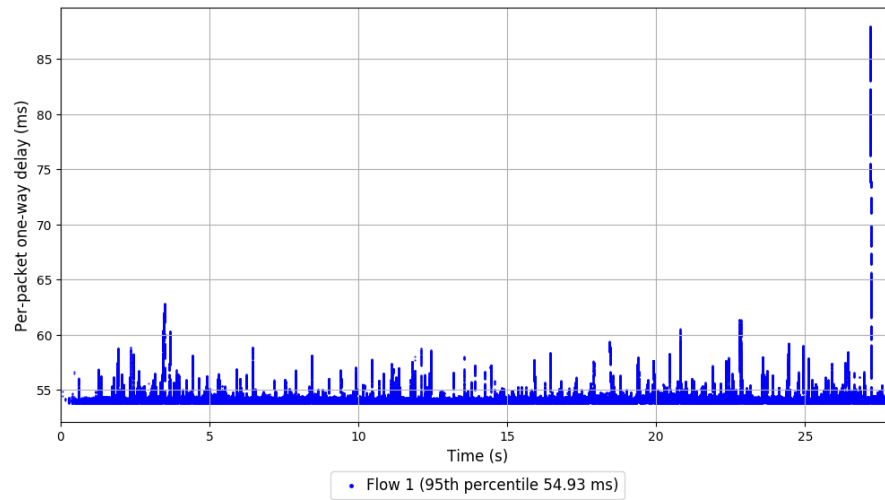
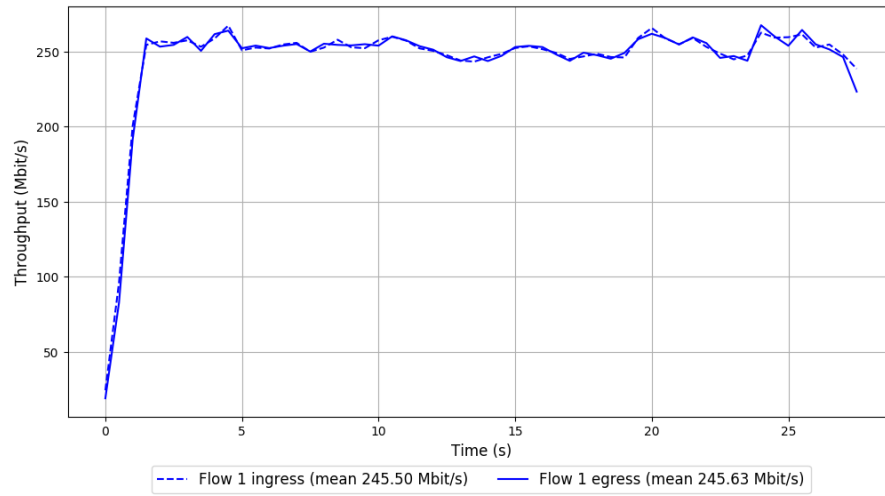
-- Flow 1:

Average throughput: 245.63 Mbit/s

95th percentile per-packet one-way delay: 54.928 ms

Loss rate: 0.33%

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



Run 6: Statistics of TaoVA-100x

Start at: 2017-09-21 15:21:36

End at: 2017-09-21 15:22:06

Below is generated by plot.py at 2017-09-21 18:21:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 19.82 Mbit/s

95th percentile per-packet one-way delay: 54.032 ms

Loss rate: 0.27%

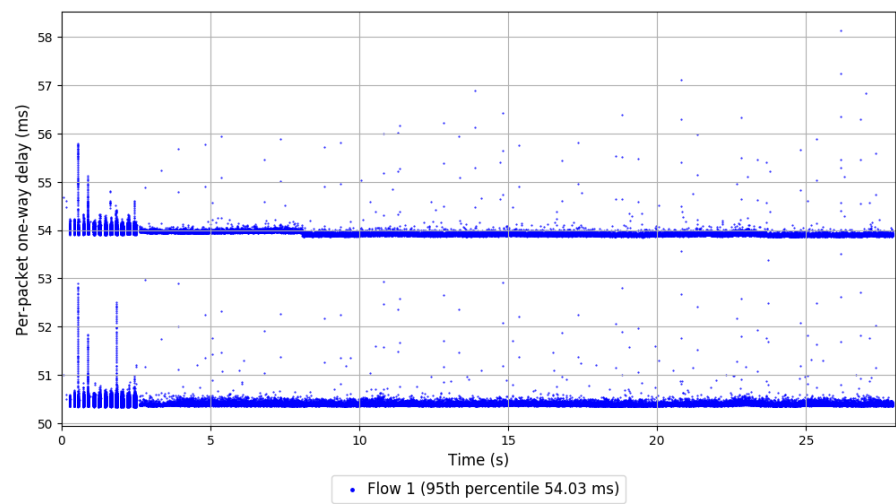
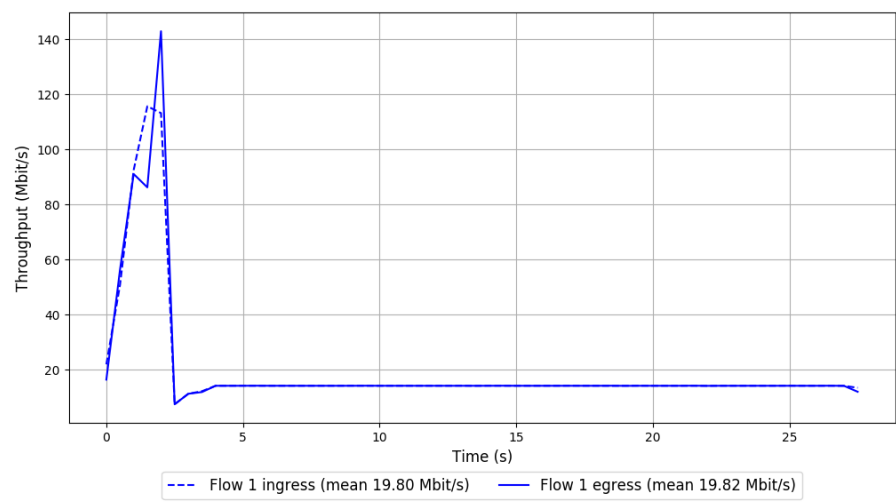
-- Flow 1:

Average throughput: 19.82 Mbit/s

95th percentile per-packet one-way delay: 54.032 ms

Loss rate: 0.27%

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

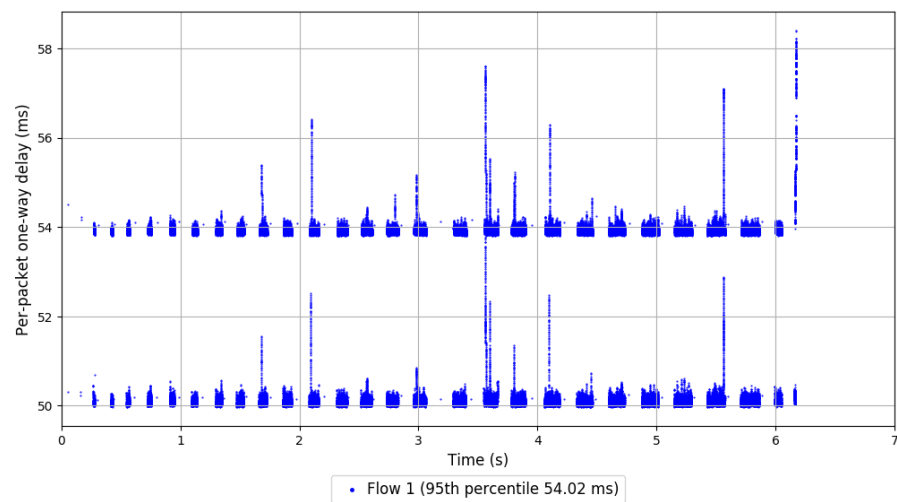
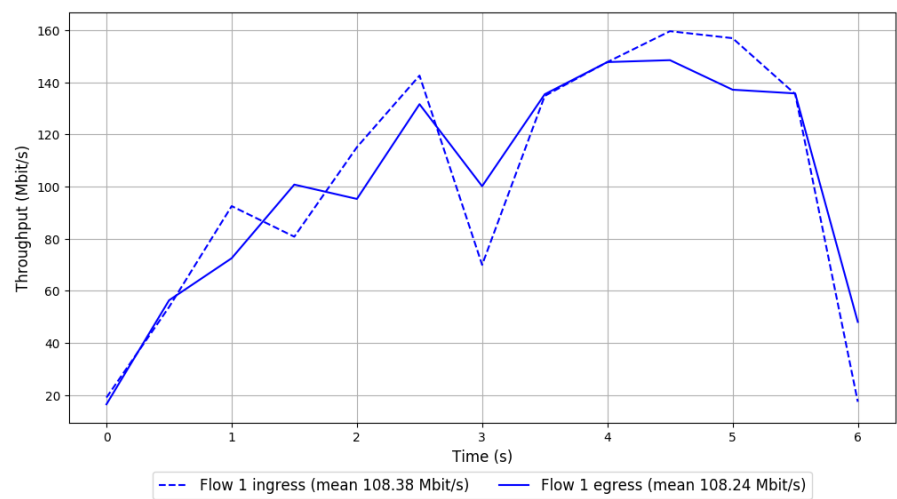


Run 7: Statistics of TaoVA-100x

Start at: 2017-09-21 15:31:46

End at: 2017-09-21 15:32:16

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



Run 8: Statistics of TaoVA-100x

Start at: 2017-09-21 15:42:14

End at: 2017-09-21 15:42:44

Below is generated by plot.py at 2017-09-21 18:21:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 51.42 Mbit/s

95th percentile per-packet one-way delay: 53.936 ms

Loss rate: 0.18%

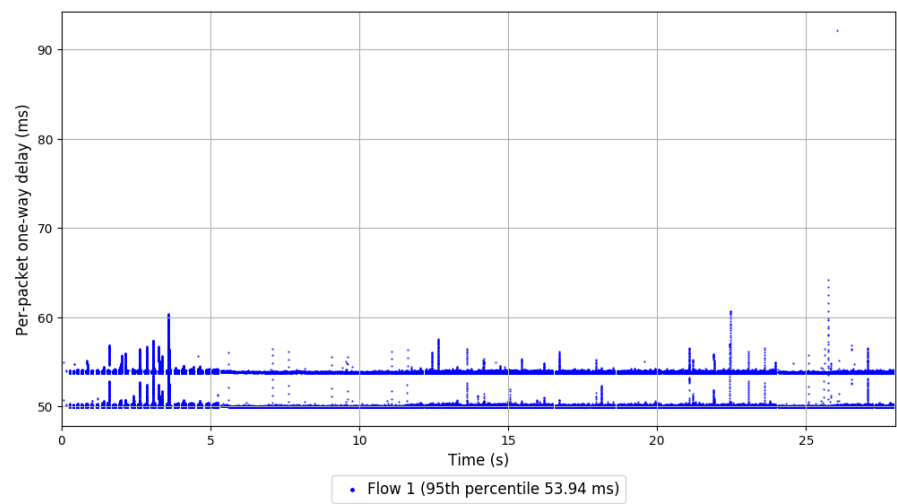
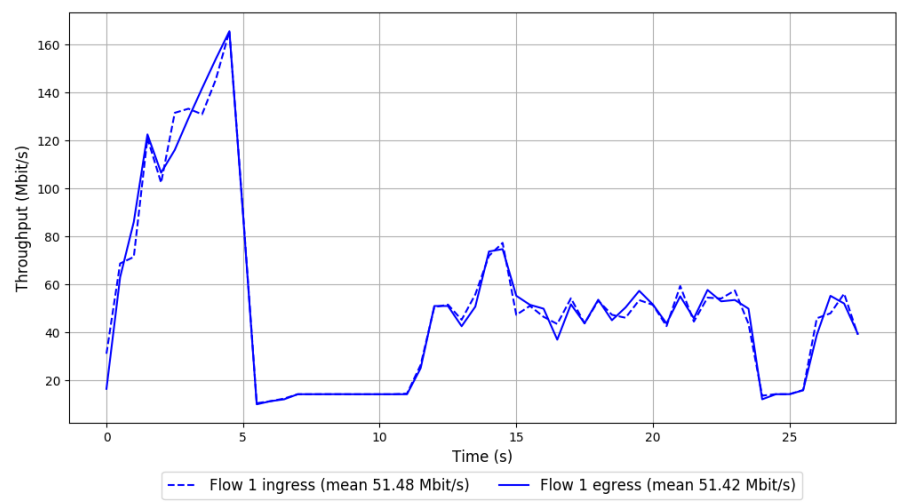
-- Flow 1:

Average throughput: 51.42 Mbit/s

95th percentile per-packet one-way delay: 53.936 ms

Loss rate: 0.18%

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

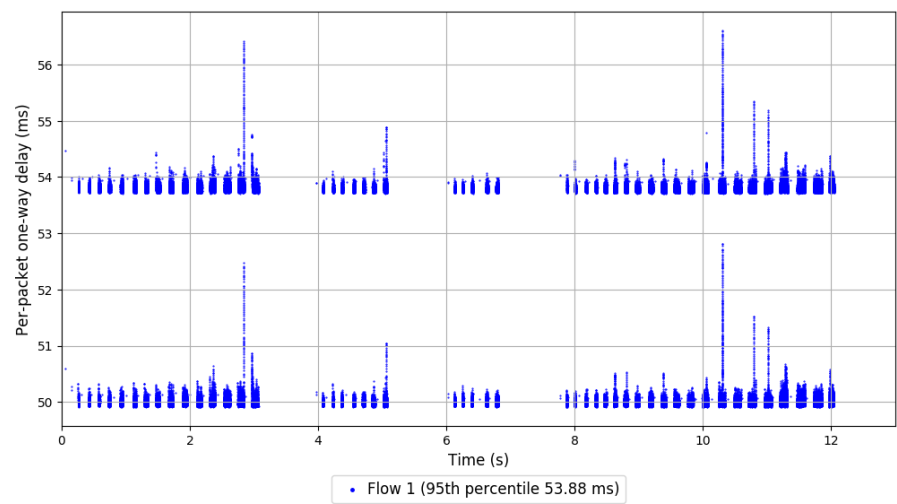
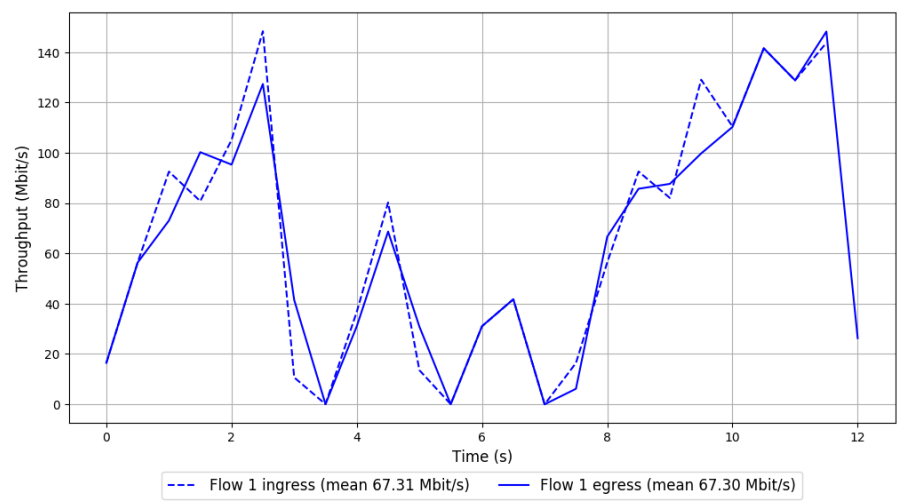


Run 9: Statistics of TaoVA-100x

Start at: 2017-09-21 15:52:11

End at: 2017-09-21 15:52:41

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

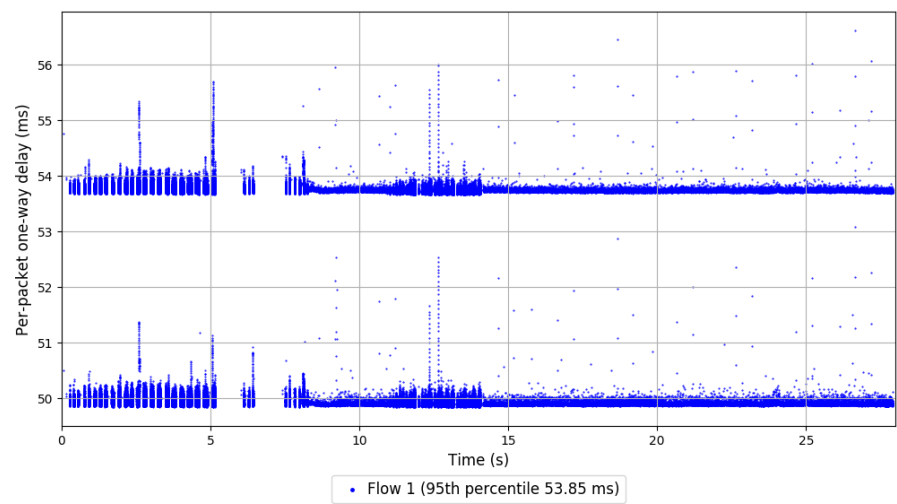
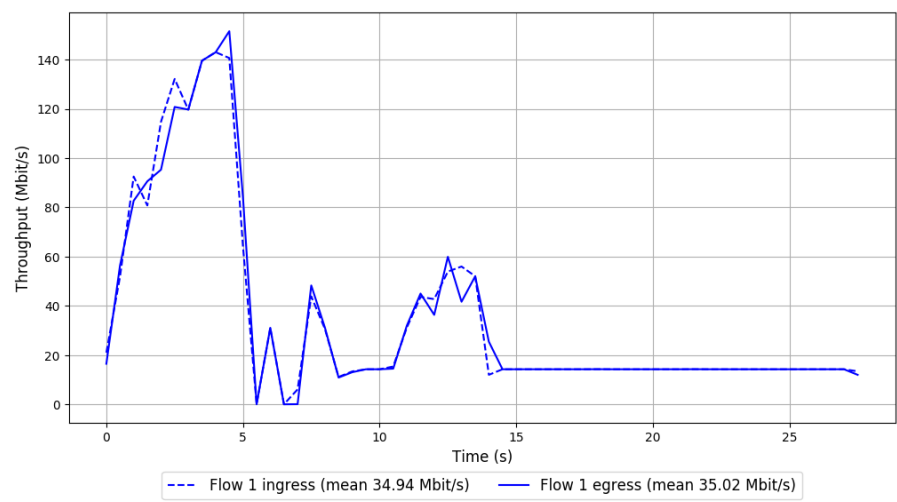


```
Run 10: Statistics of TaoVA-100x

Start at: 2017-09-21 16:02:30
End at: 2017-09-21 16:03:00

# Below is generated by plot.py at 2017-09-21 18:21:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 35.02 Mbit/s
95th percentile per-packet one-way delay: 53.846 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 35.02 Mbit/s
95th percentile per-packet one-way delay: 53.846 ms
Loss rate: 0.15%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2017-09-21 14:22:47

End at: 2017-09-21 14:23:17

Below is generated by plot.py at 2017-09-21 18:21:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 23.38 Mbit/s

95th percentile per-packet one-way delay: 56.071 ms

Loss rate: 0.27%

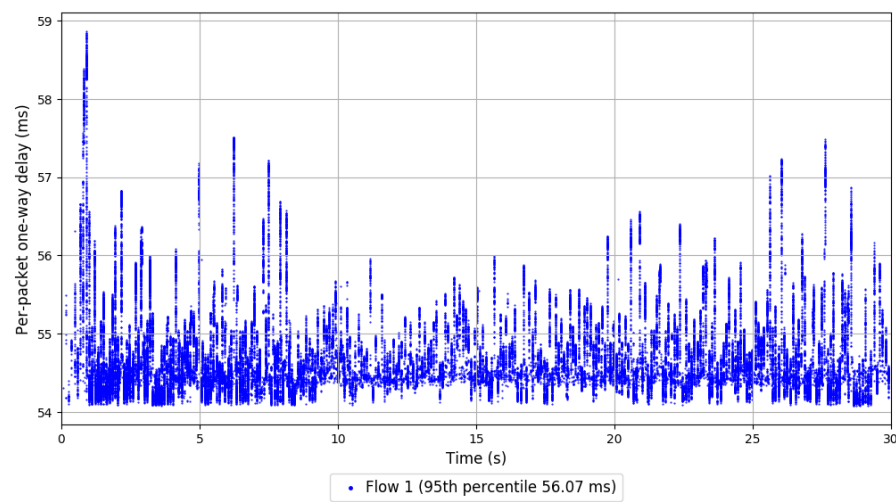
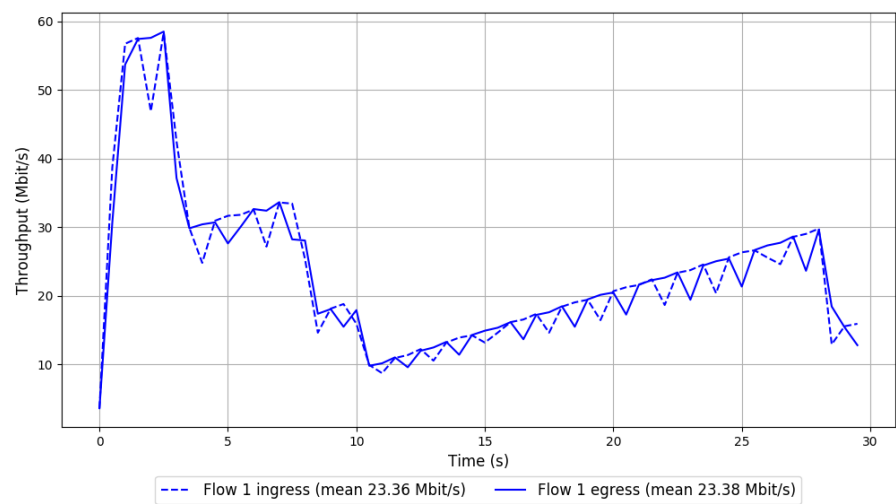
-- Flow 1:

Average throughput: 23.38 Mbit/s

95th percentile per-packet one-way delay: 56.071 ms

Loss rate: 0.27%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2017-09-21 14:33:36

End at: 2017-09-21 14:34:06

Below is generated by plot.py at 2017-09-21 18:21:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 29.65 Mbit/s

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

Loss rate: 0.45%

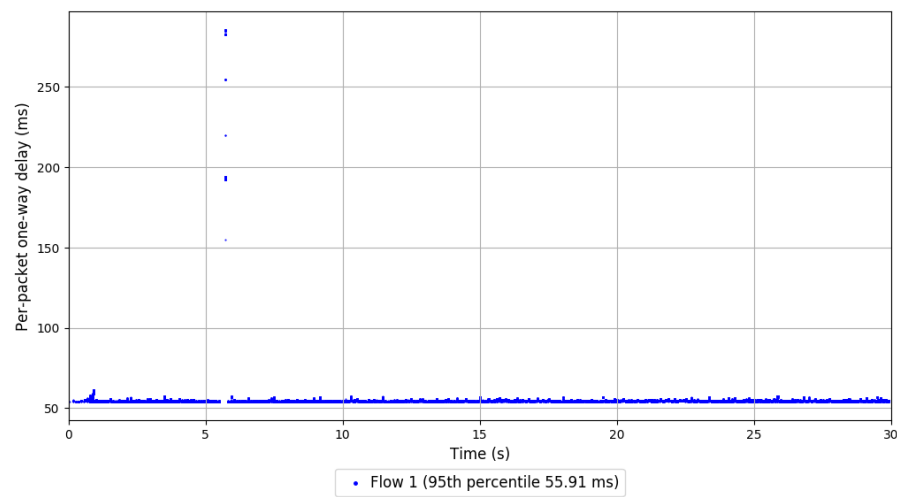
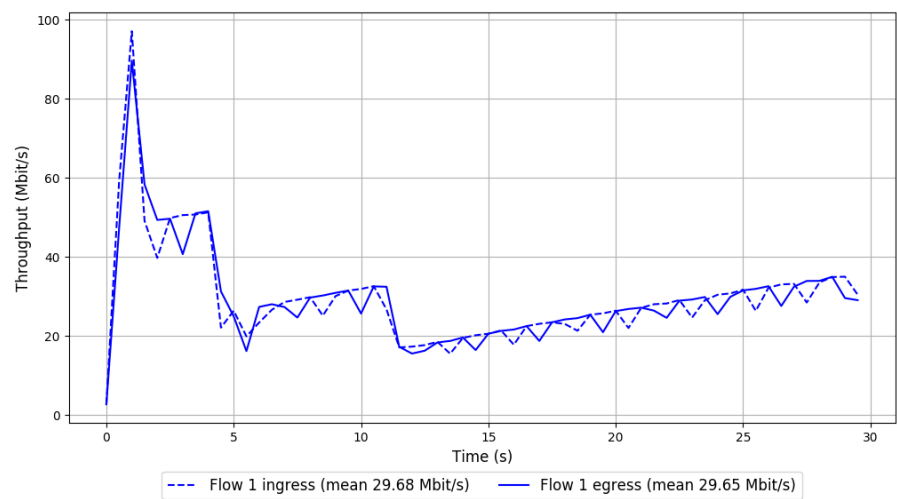
-- Flow 1:

Average throughput: 29.65 Mbit/s

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

Loss rate: 0.45%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2017-09-21 14:44:07

End at: 2017-09-21 14:44:37

Below is generated by plot.py at 2017-09-21 18:21:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.12 Mbit/s

95th percentile per-packet one-way delay: 54.666 ms

Loss rate: 0.51%

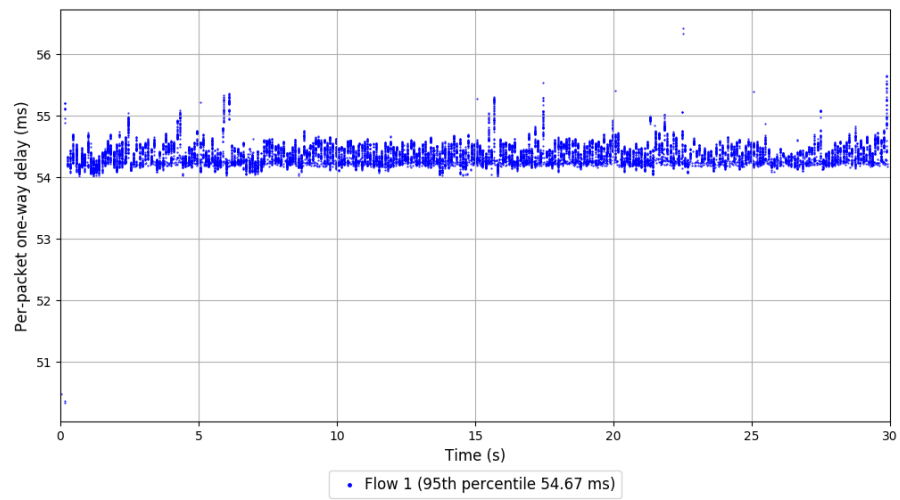
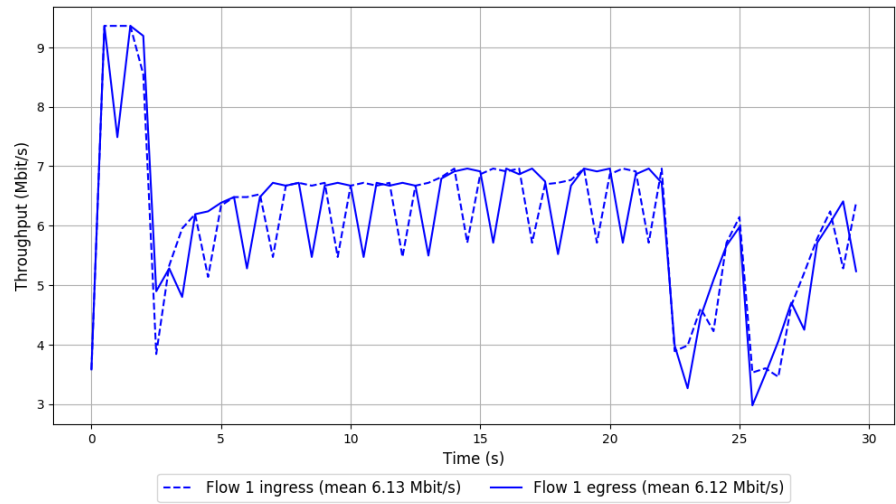
-- Flow 1:

Average throughput: 6.12 Mbit/s

95th percentile per-packet one-way delay: 54.666 ms

Loss rate: 0.51%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2017-09-21 14:54:34

End at: 2017-09-21 14:55:04

Below is generated by plot.py at 2017-09-21 18:21:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.47 Mbit/s

95th percentile per-packet one-way delay: 55.044 ms

Loss rate: 0.46%

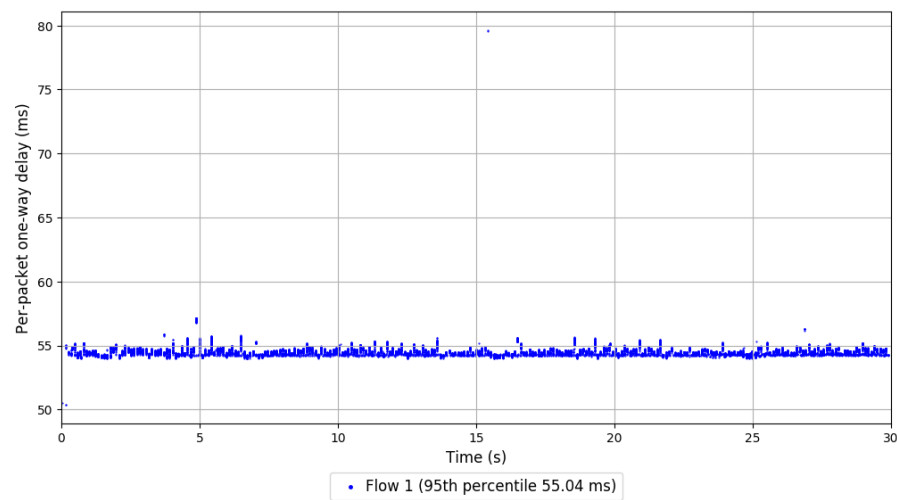
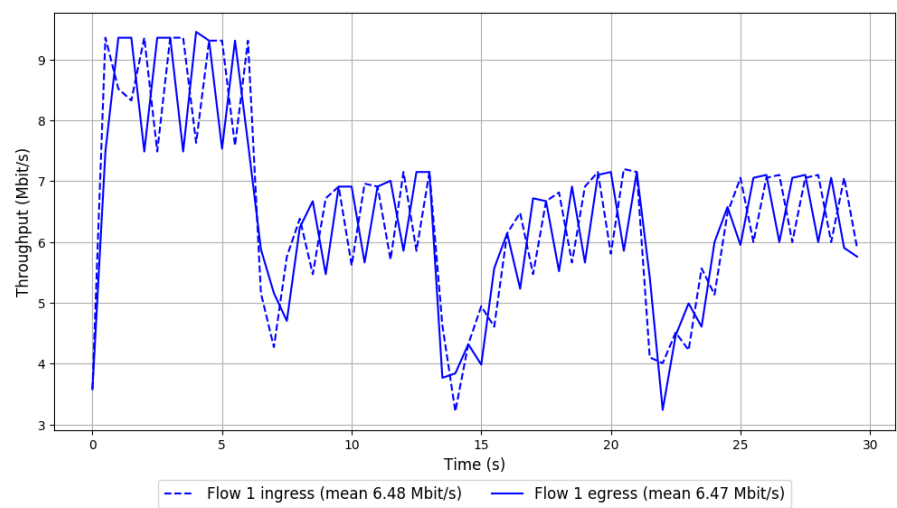
-- Flow 1:

Average throughput: 6.47 Mbit/s

95th percentile per-packet one-way delay: 55.044 ms

Loss rate: 0.46%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2017-09-21 15:05:22

End at: 2017-09-21 15:05:52

Below is generated by plot.py at 2017-09-21 18:21:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 31.35 Mbit/s

95th percentile per-packet one-way delay: 56.069 ms

Loss rate: 0.21%

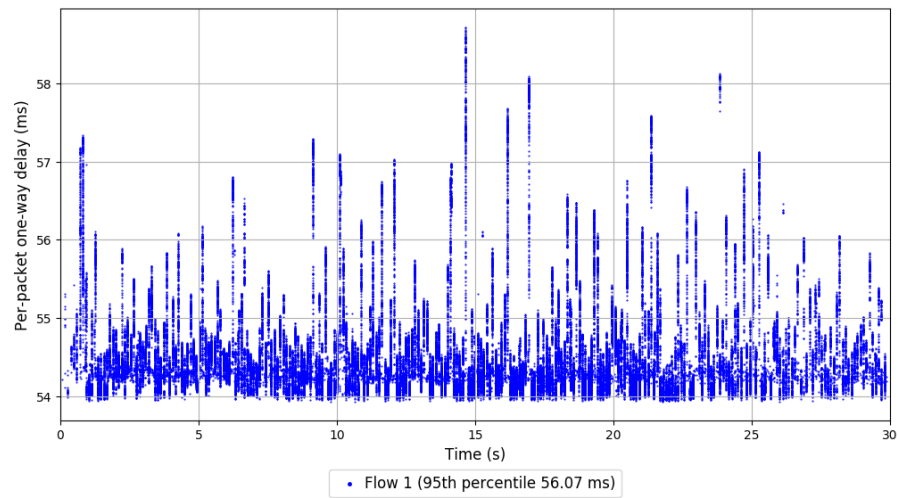
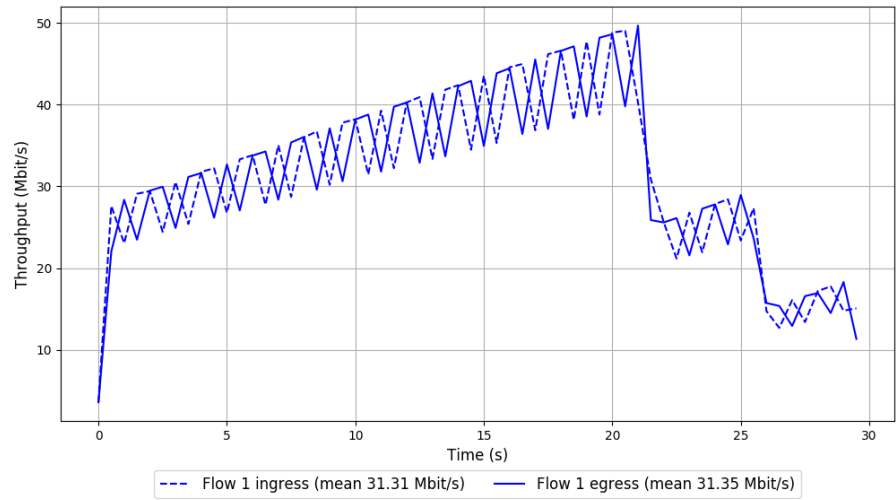
-- Flow 1:

Average throughput: 31.35 Mbit/s

95th percentile per-packet one-way delay: 56.069 ms

Loss rate: 0.21%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2017-09-21 15:16:07

End at: 2017-09-21 15:16:37

Below is generated by plot.py at 2017-09-21 18:21:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.72 Mbit/s

95th percentile per-packet one-way delay: 54.611 ms

Loss rate: 0.36%

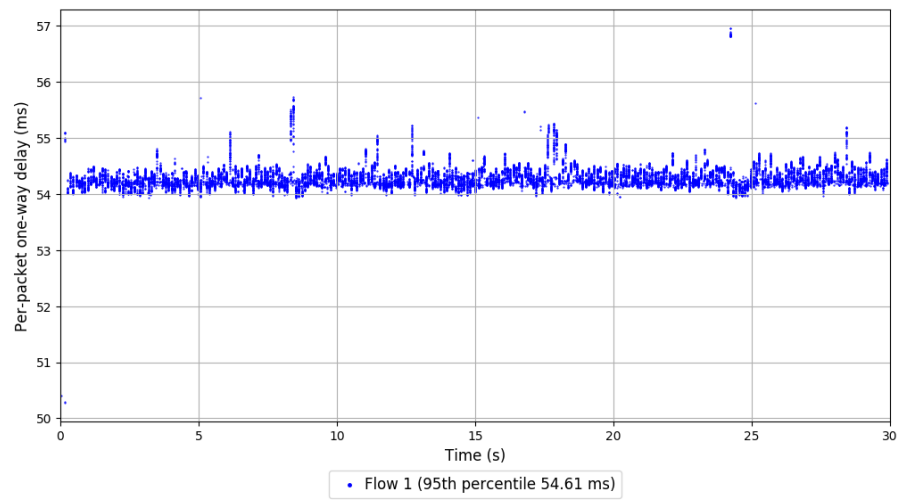
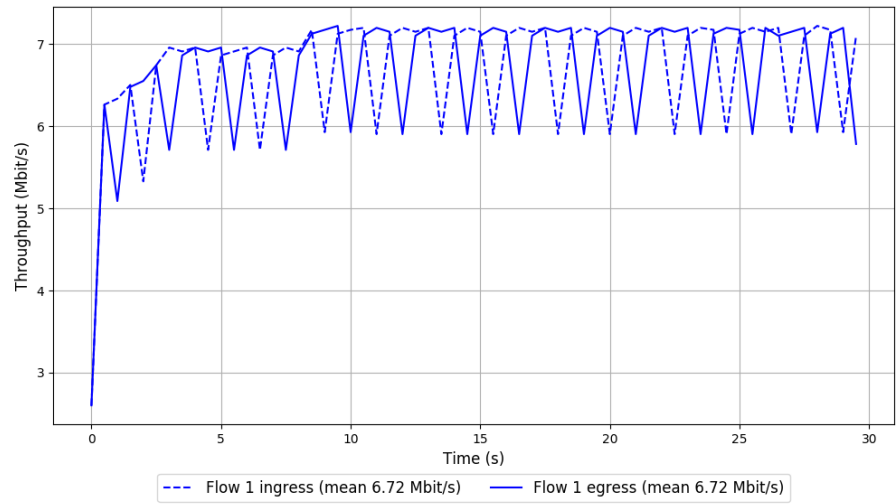
-- Flow 1:

Average throughput: 6.72 Mbit/s

95th percentile per-packet one-way delay: 54.611 ms

Loss rate: 0.36%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2017-09-21 15:25:53

End at: 2017-09-21 15:26:23

Below is generated by plot.py at 2017-09-21 18:21:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.96 Mbit/s

95th percentile per-packet one-way delay: 54.601 ms

Loss rate: 0.73%

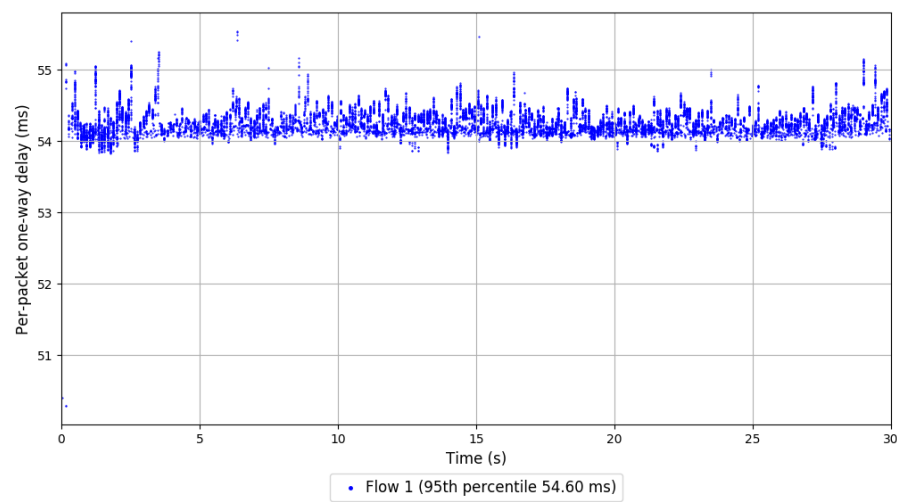
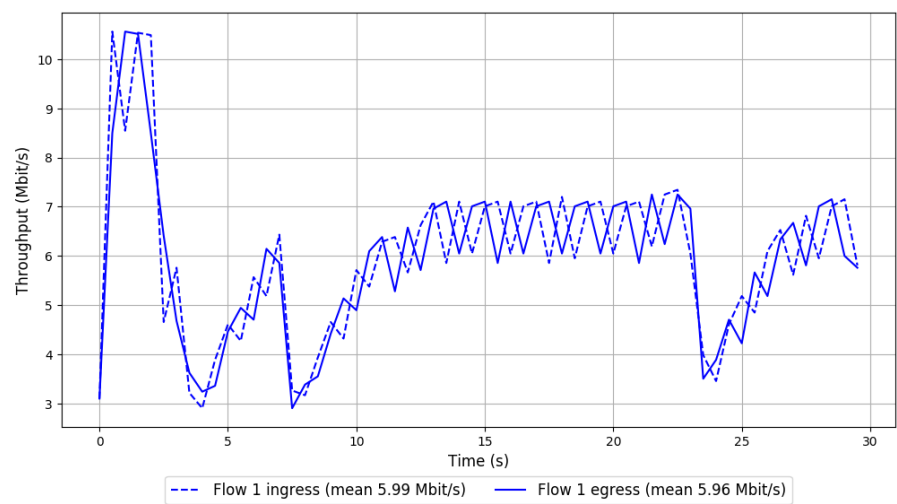
-- Flow 1:

Average throughput: 5.96 Mbit/s

95th percentile per-packet one-way delay: 54.601 ms

Loss rate: 0.73%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2017-09-21 15:36:17

End at: 2017-09-21 15:36:47

Below is generated by plot.py at 2017-09-21 18:21:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 34.57 Mbit/s

95th percentile per-packet one-way delay: 55.400 ms

Loss rate: 0.15%

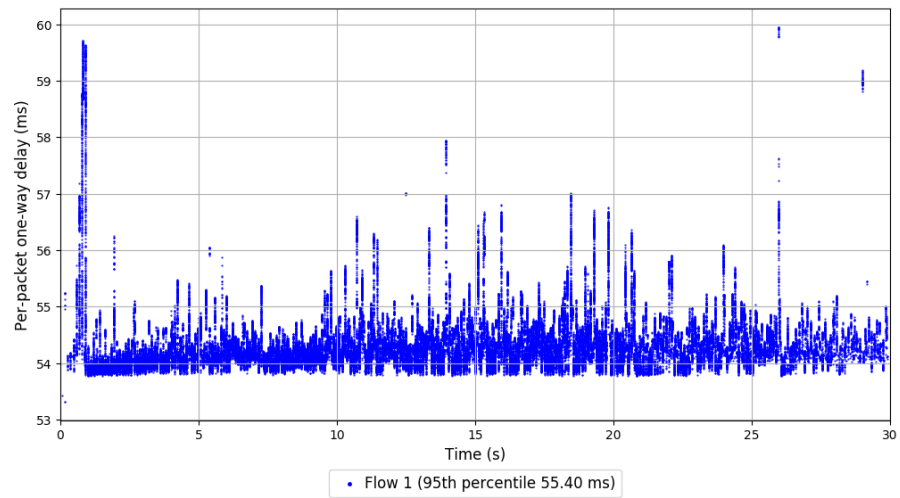
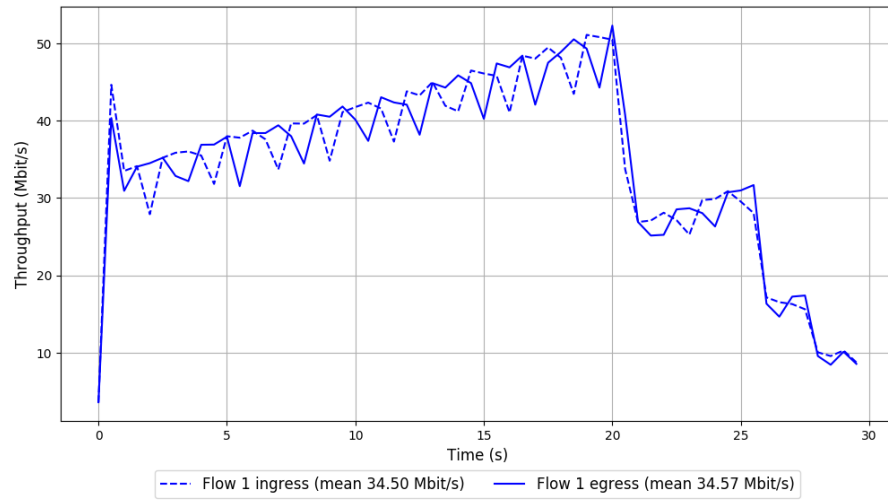
-- Flow 1:

Average throughput: 34.57 Mbit/s

95th percentile per-packet one-way delay: 55.400 ms

Loss rate: 0.15%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2017-09-21 15:46:41

End at: 2017-09-21 15:47:11

Below is generated by plot.py at 2017-09-21 18:21:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 9.54 Mbit/s

95th percentile per-packet one-way delay: 54.974 ms

Loss rate: 0.66%

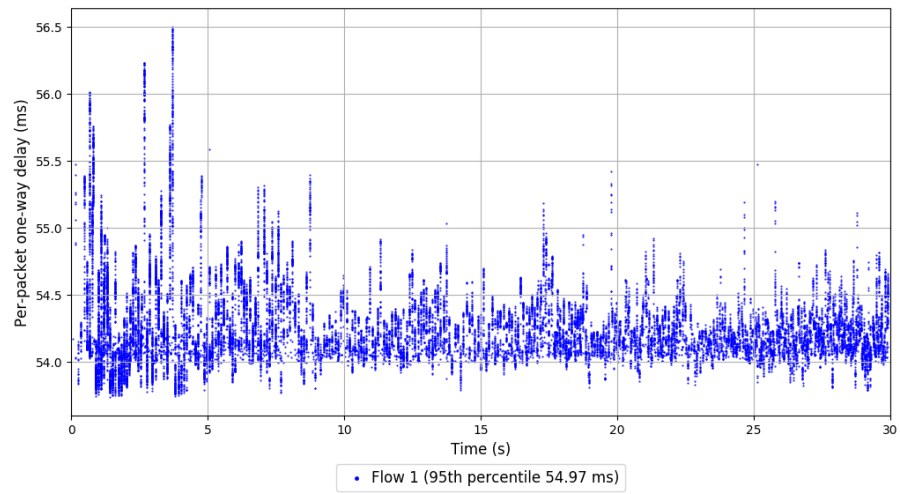
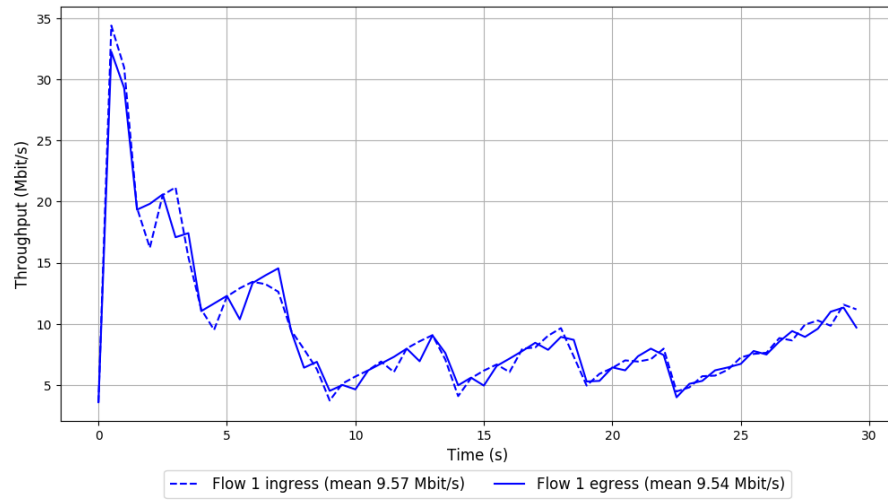
-- Flow 1:

Average throughput: 9.54 Mbit/s

95th percentile per-packet one-way delay: 54.974 ms

Loss rate: 0.66%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2017-09-21 15:56:39

End at: 2017-09-21 15:57:09

Below is generated by plot.py at 2017-09-21 18:21:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.38 Mbit/s

95th percentile per-packet one-way delay: 54.511 ms

Loss rate: 0.54%

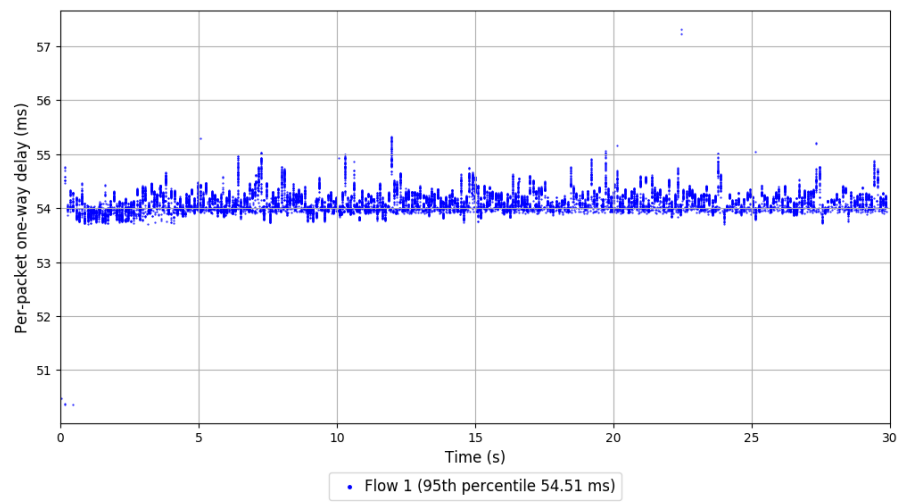
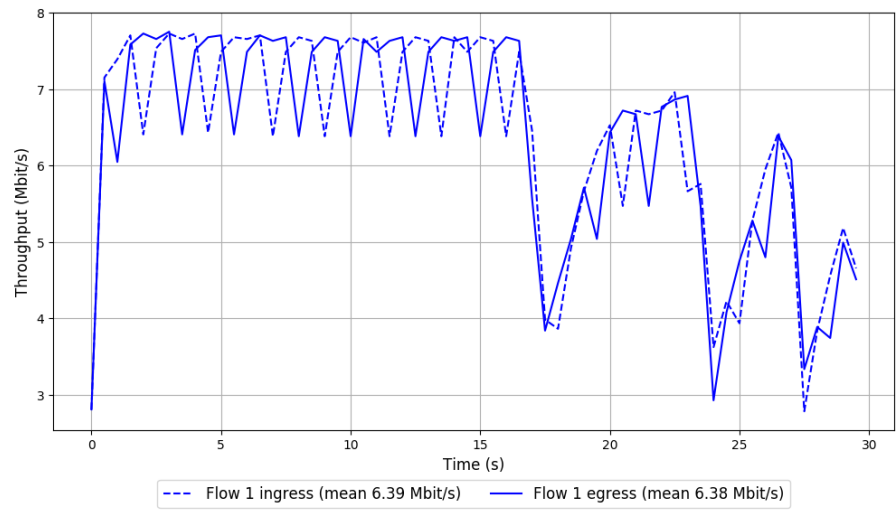
-- Flow 1:

Average throughput: 6.38 Mbit/s

95th percentile per-packet one-way delay: 54.511 ms

Loss rate: 0.54%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2017-09-21 14:24:53

End at: 2017-09-21 14:25:23

Below is generated by plot.py at 2017-09-21 18:21:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 252.52 Mbit/s

95th percentile per-packet one-way delay: 93.195 ms

Loss rate: 0.56%

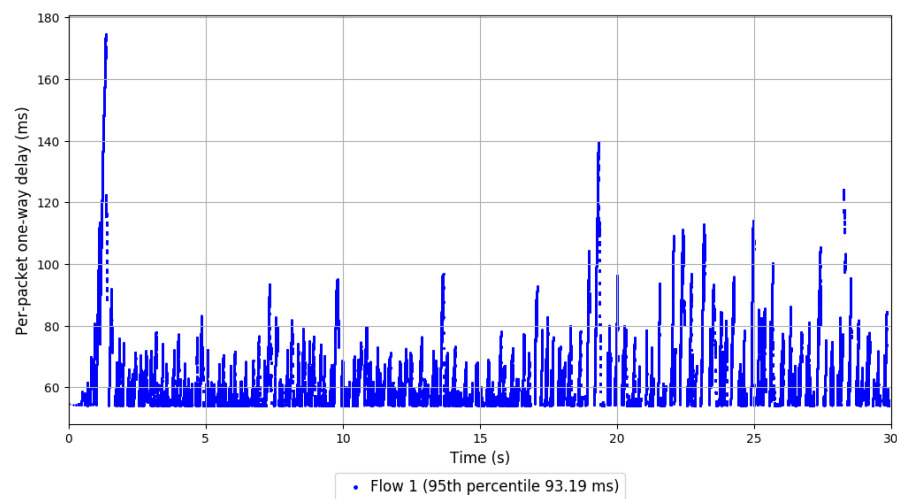
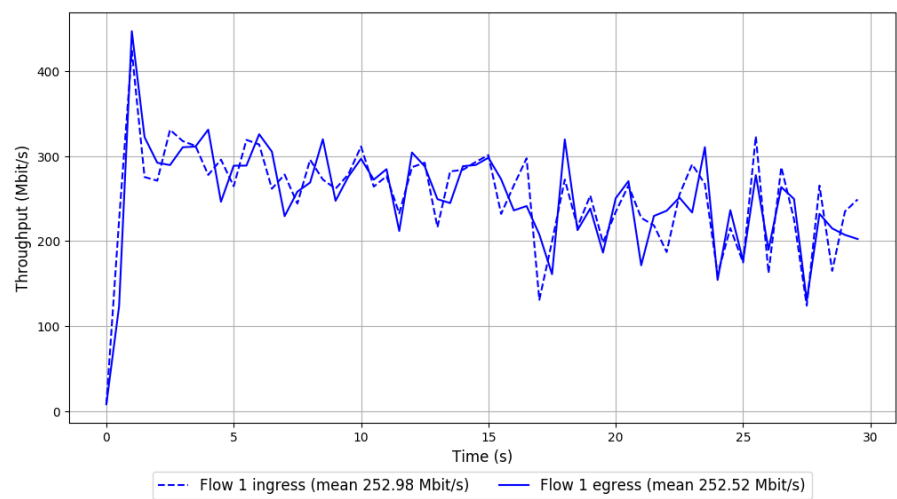
-- Flow 1:

Average throughput: 252.52 Mbit/s

95th percentile per-packet one-way delay: 93.195 ms

Loss rate: 0.56%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2017-09-21 14:35:43

End at: 2017-09-21 14:36:13

Below is generated by plot.py at 2017-09-21 18:21:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 285.71 Mbit/s

95th percentile per-packet one-way delay: 88.273 ms

Loss rate: 2.40%

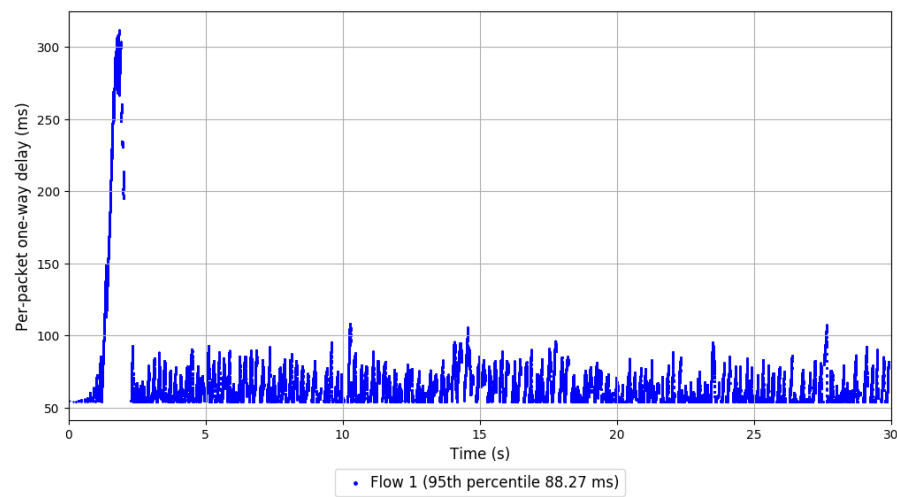
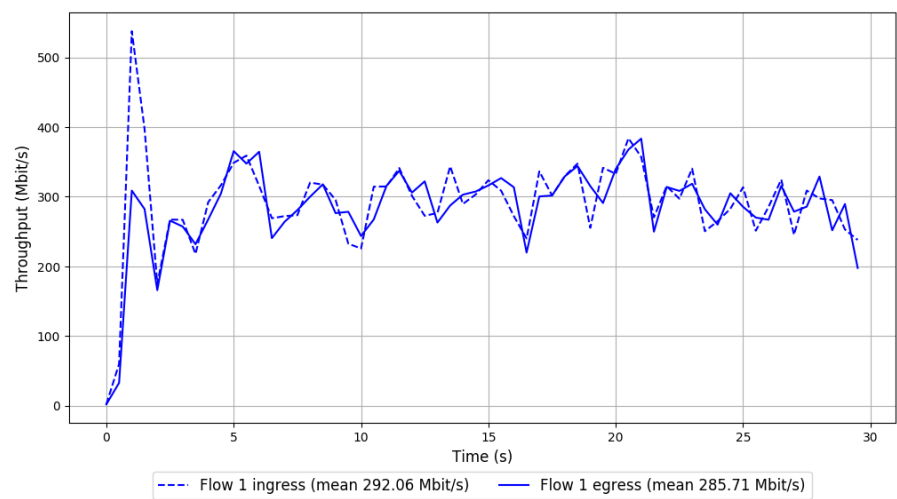
-- Flow 1:

Average throughput: 285.71 Mbit/s

95th percentile per-packet one-way delay: 88.273 ms

Loss rate: 2.40%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2017-09-21 14:46:11

End at: 2017-09-21 14:46:41

Below is generated by plot.py at 2017-09-21 18:21:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 274.69 Mbit/s

95th percentile per-packet one-way delay: 236.404 ms

Loss rate: 6.12%

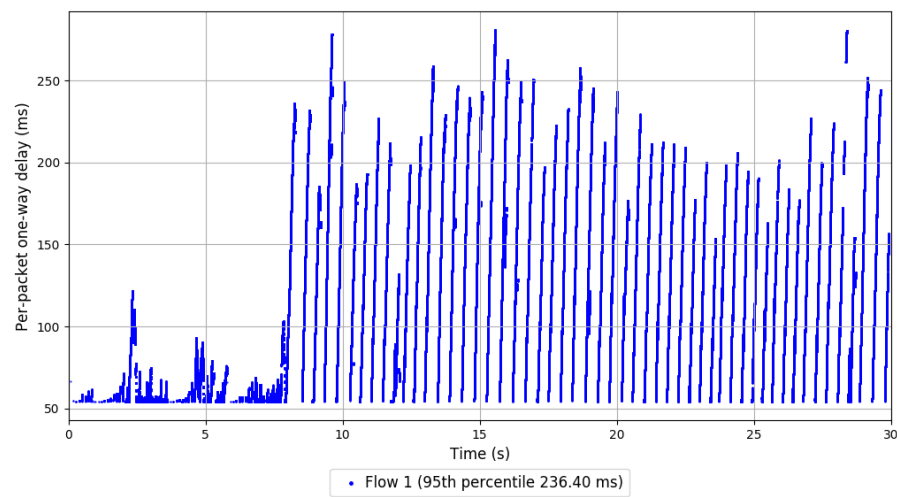
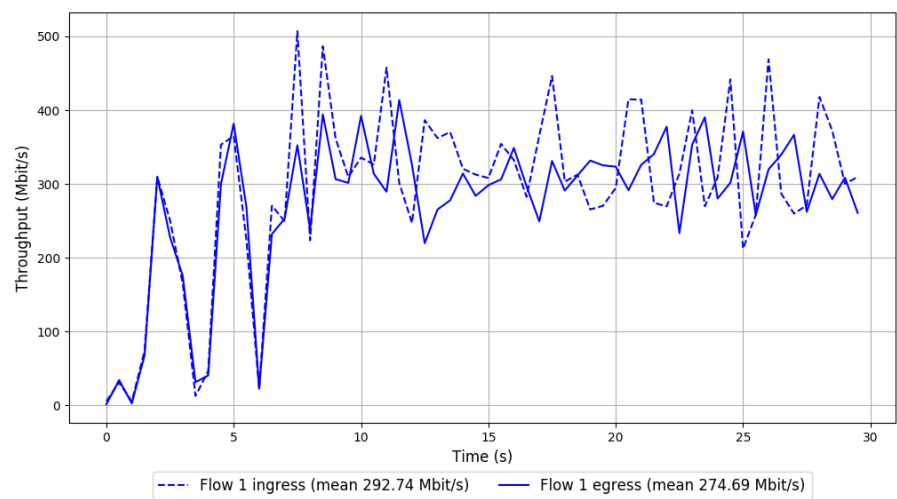
-- Flow 1:

Average throughput: 274.69 Mbit/s

95th percentile per-packet one-way delay: 236.404 ms

Loss rate: 6.12%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2017-09-21 14:56:39

End at: 2017-09-21 14:57:09

Below is generated by plot.py at 2017-09-21 18:21:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 252.58 Mbit/s

95th percentile per-packet one-way delay: 99.046 ms

Loss rate: 0.50%

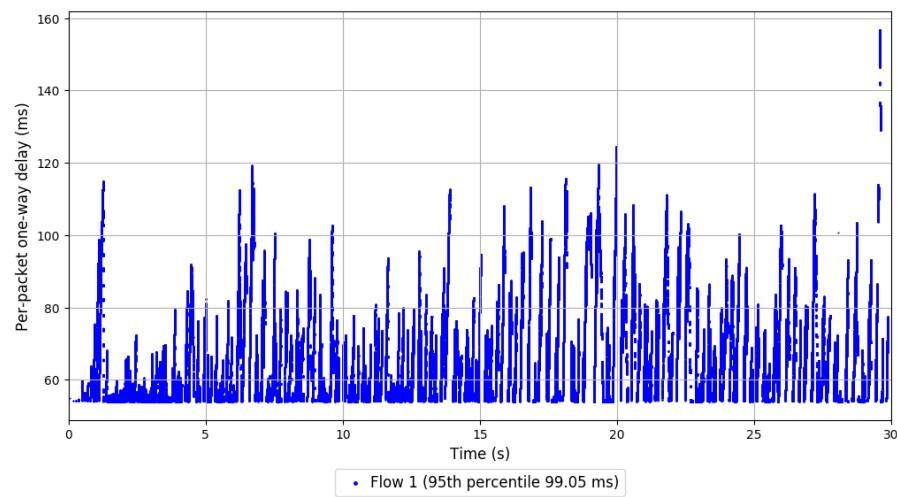
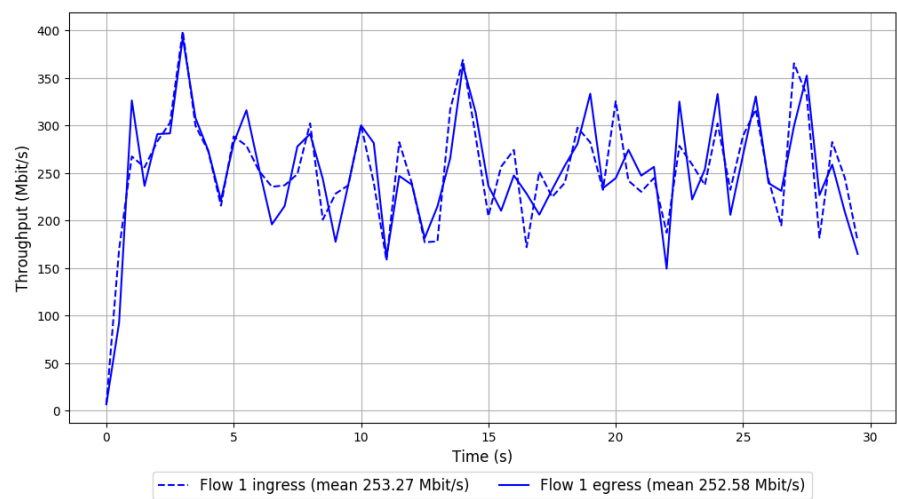
-- Flow 1:

Average throughput: 252.58 Mbit/s

95th percentile per-packet one-way delay: 99.046 ms

Loss rate: 0.50%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2017-09-21 15:07:28

End at: 2017-09-21 15:07:58

Below is generated by plot.py at 2017-09-21 18:21:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 241.28 Mbit/s

95th percentile per-packet one-way delay: 125.619 ms

Loss rate: 2.78%

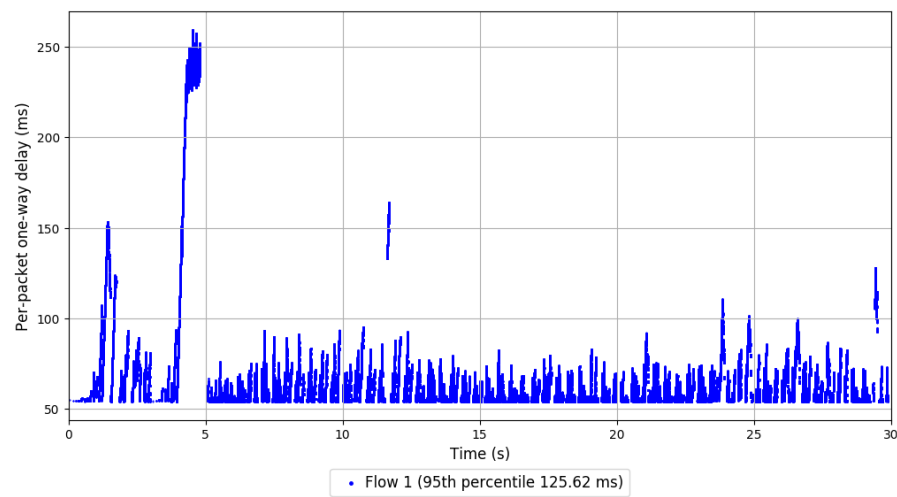
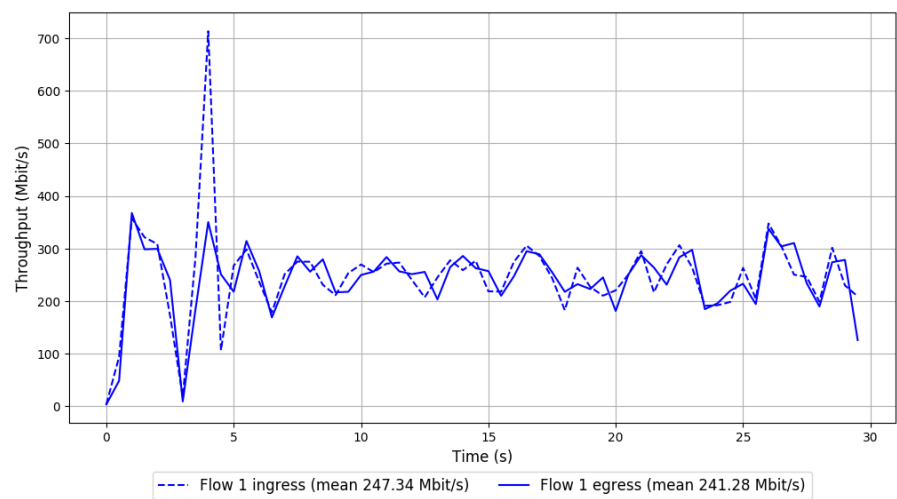
-- Flow 1:

Average throughput: 241.28 Mbit/s

95th percentile per-packet one-way delay: 125.619 ms

Loss rate: 2.78%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2017-09-21 15:18:12

End at: 2017-09-21 15:18:42

Below is generated by plot.py at 2017-09-21 18:23:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 227.76 Mbit/s

95th percentile per-packet one-way delay: 91.220 ms

Loss rate: 0.63%

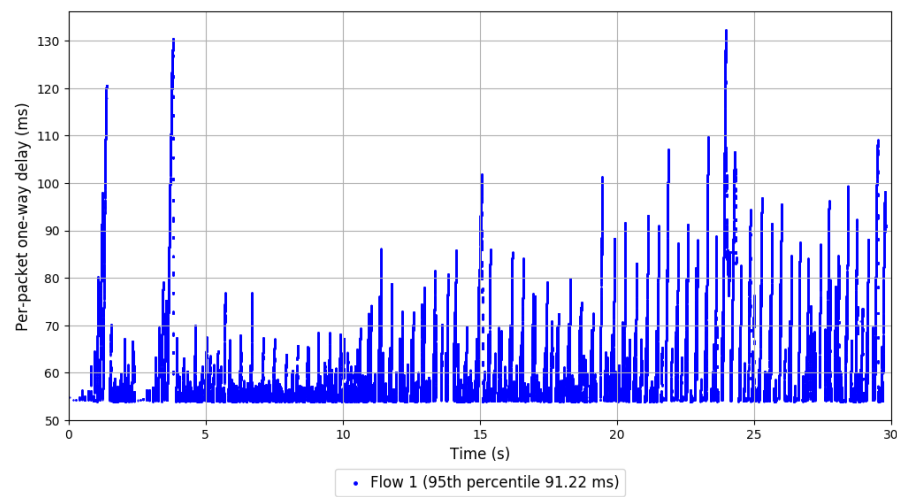
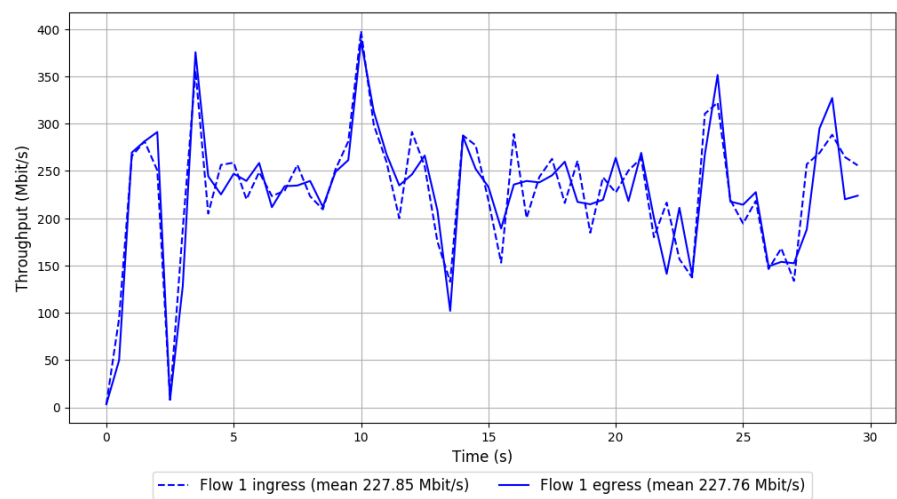
-- Flow 1:

Average throughput: 227.76 Mbit/s

95th percentile per-packet one-way delay: 91.220 ms

Loss rate: 0.63%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2017-09-21 15:27:58

End at: 2017-09-21 15:28:28

Below is generated by plot.py at 2017-09-21 18:24:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 232.33 Mbit/s

95th percentile per-packet one-way delay: 92.659 ms

Loss rate: 0.32%

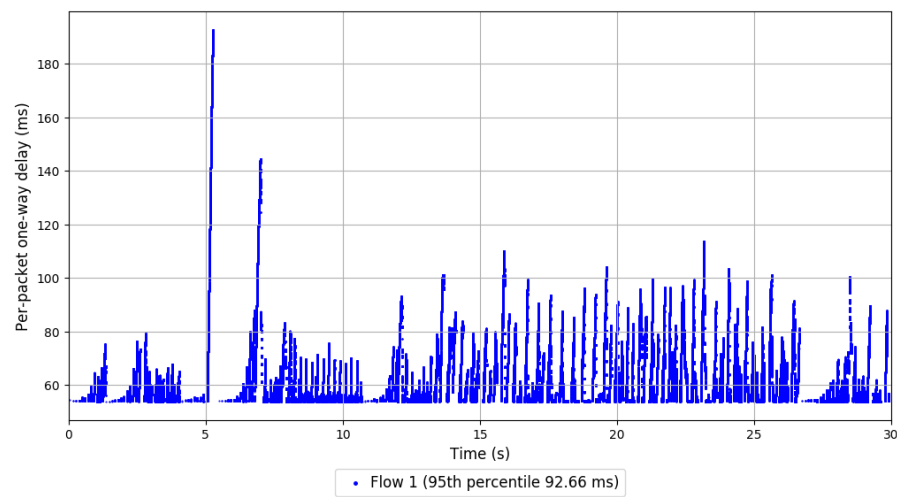
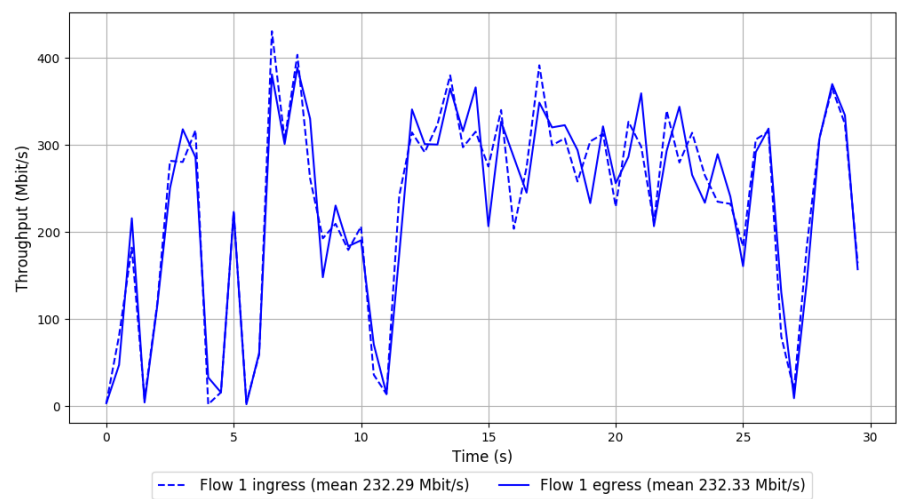
-- Flow 1:

Average throughput: 232.33 Mbit/s

95th percentile per-packet one-way delay: 92.659 ms

Loss rate: 0.32%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2017-09-21 15:38:23

End at: 2017-09-21 15:38:53

Below is generated by plot.py at 2017-09-21 18:24:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 247.63 Mbit/s

95th percentile per-packet one-way delay: 259.435 ms

Loss rate: 13.63%

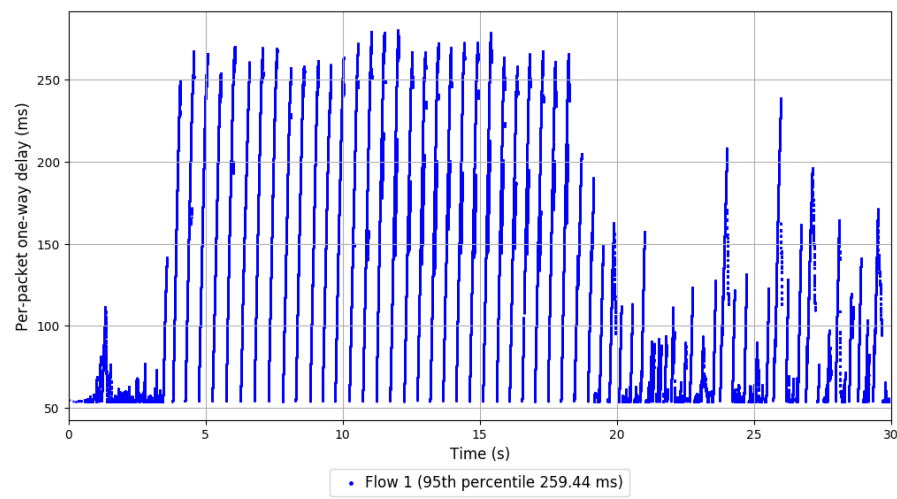
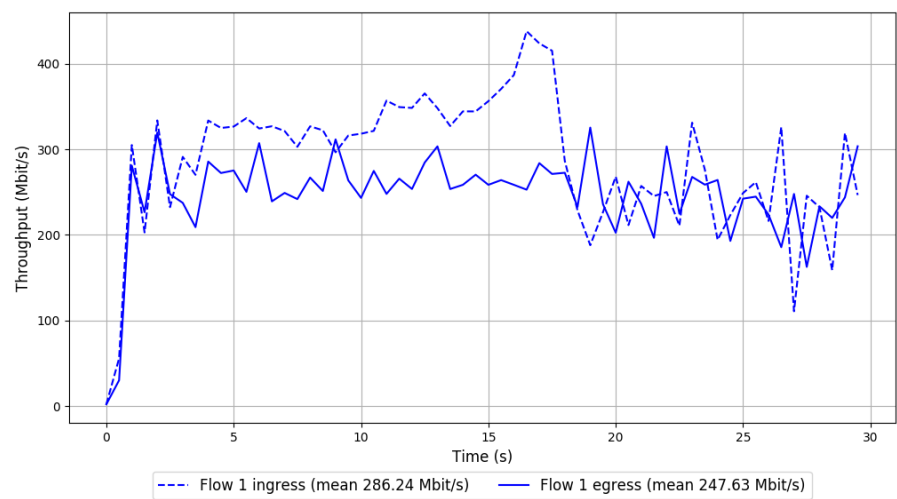
-- Flow 1:

Average throughput: 247.63 Mbit/s

95th percentile per-packet one-way delay: 259.435 ms

Loss rate: 13.63%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2017-09-21 15:48:47

End at: 2017-09-21 15:49:17

Below is generated by plot.py at 2017-09-21 18:24:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 209.56 Mbit/s

95th percentile per-packet one-way delay: 195.589 ms

Loss rate: 2.61%

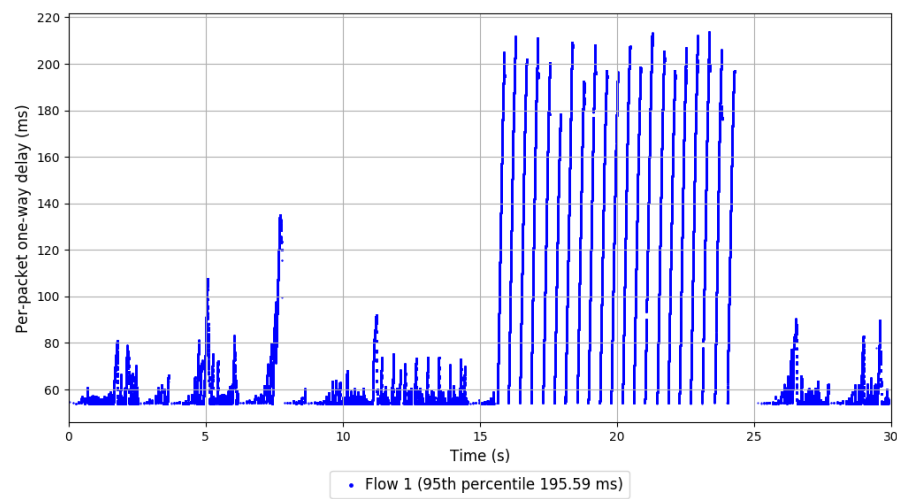
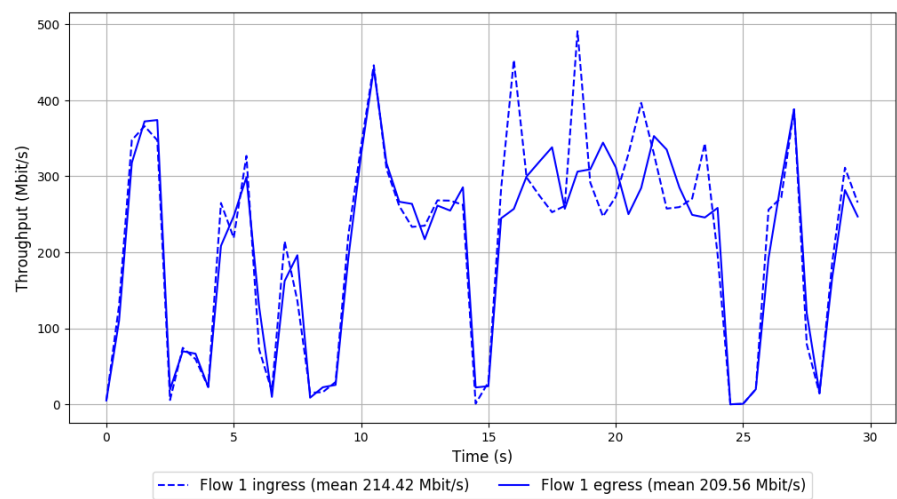
-- Flow 1:

Average throughput: 209.56 Mbit/s

95th percentile per-packet one-way delay: 195.589 ms

Loss rate: 2.61%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2017-09-21 15:58:44

End at: 2017-09-21 15:59:14

Below is generated by plot.py at 2017-09-21 18:24:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 230.58 Mbit/s

95th percentile per-packet one-way delay: 185.692 ms

Loss rate: 3.22%

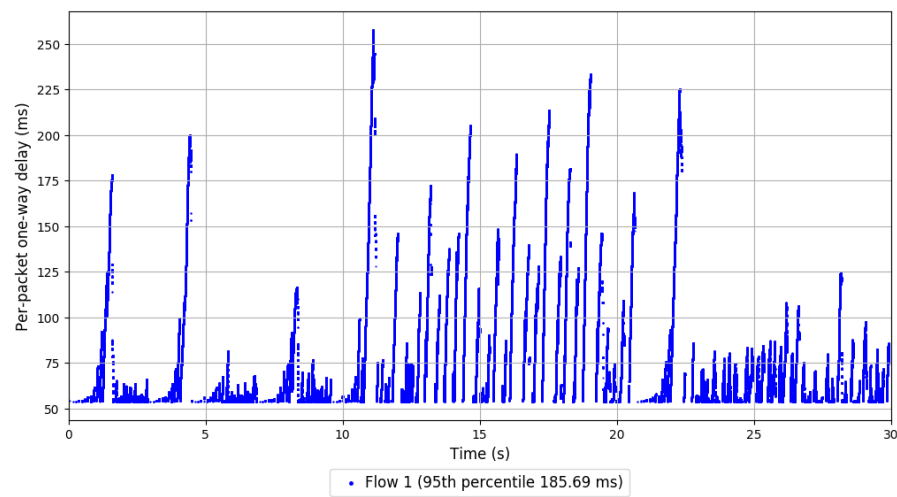
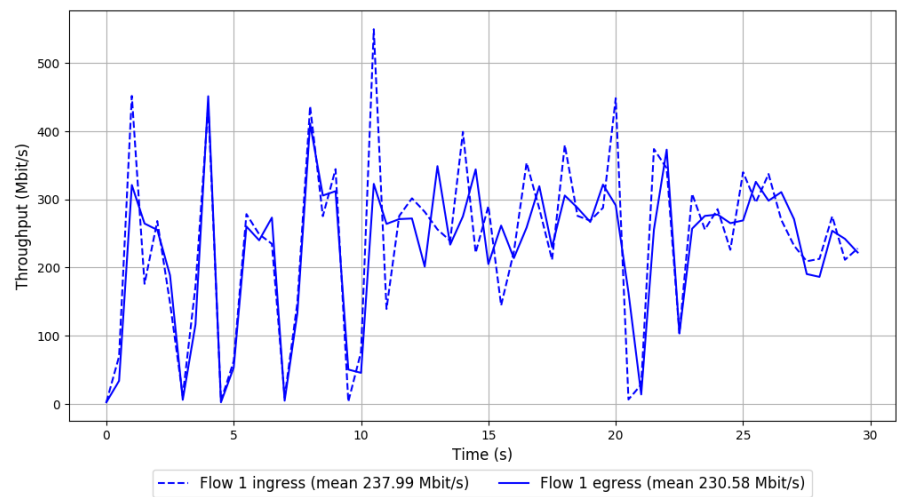
-- Flow 1:

Average throughput: 230.58 Mbit/s

95th percentile per-packet one-way delay: 185.692 ms

Loss rate: 3.22%

Run 10: Report of Verus — Data Link

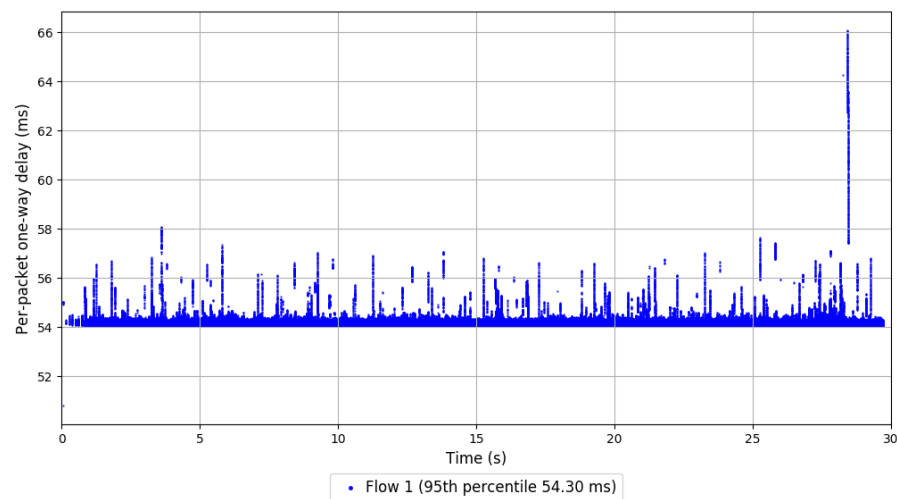
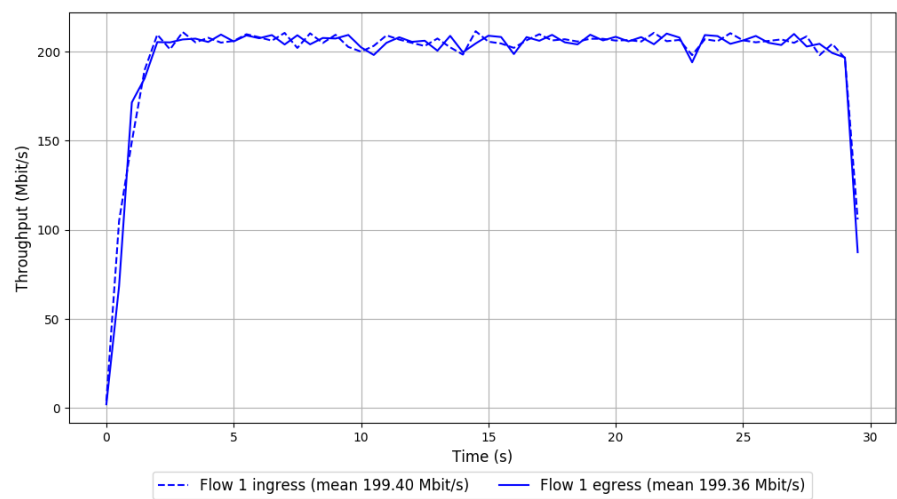


```
Run 1: Statistics of Indigo

Start at: 2017-09-21 14:30:34
End at: 2017-09-21 14:31:04

# Below is generated by plot.py at 2017-09-21 18:24:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 199.36 Mbit/s
95th percentile per-packet one-way delay: 54.303 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 199.36 Mbit/s
95th percentile per-packet one-way delay: 54.303 ms
Loss rate: 0.36%
```

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2017-09-21 14:41:03

End at: 2017-09-21 14:41:33

Below is generated by plot.py at 2017-09-21 18:24:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 196.03 Mbit/s

95th percentile per-packet one-way delay: 54.226 ms

Loss rate: 0.35%

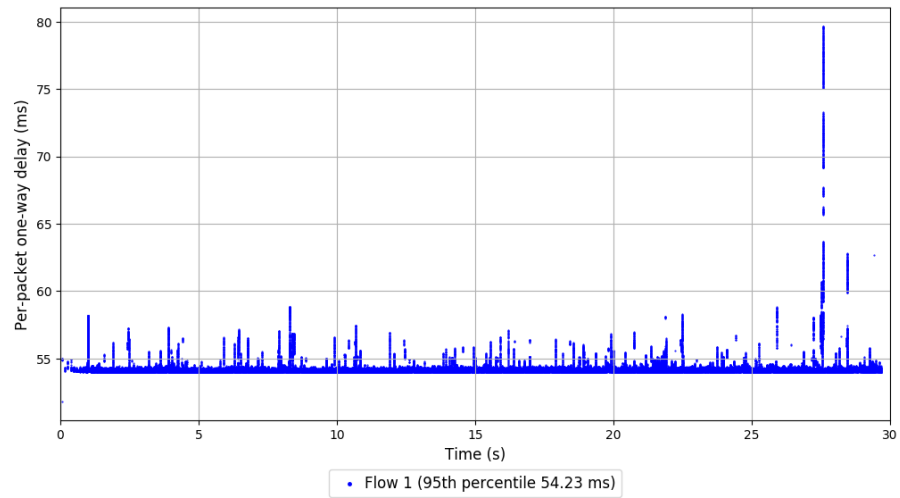
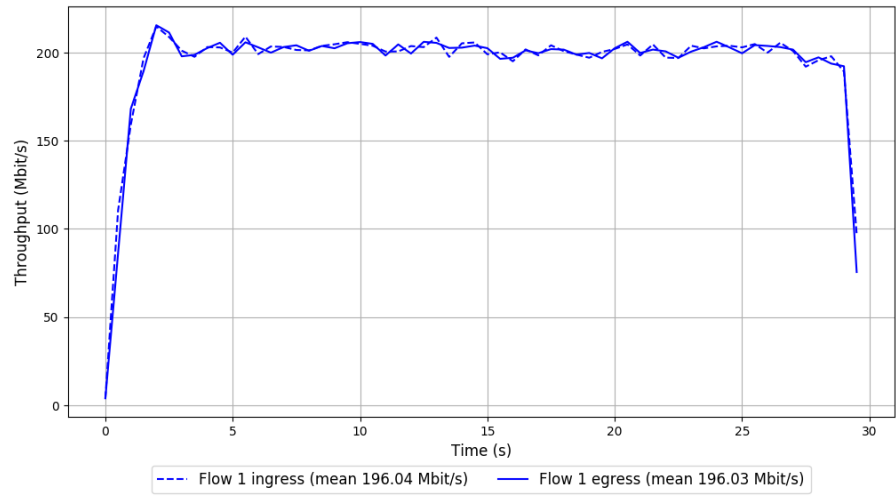
-- Flow 1:

Average throughput: 196.03 Mbit/s

95th percentile per-packet one-way delay: 54.226 ms

Loss rate: 0.35%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2017-09-21 14:51:33

End at: 2017-09-21 14:52:03

Below is generated by plot.py at 2017-09-21 18:24:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 198.87 Mbit/s

95th percentile per-packet one-way delay: 54.250 ms

Loss rate: 0.37%

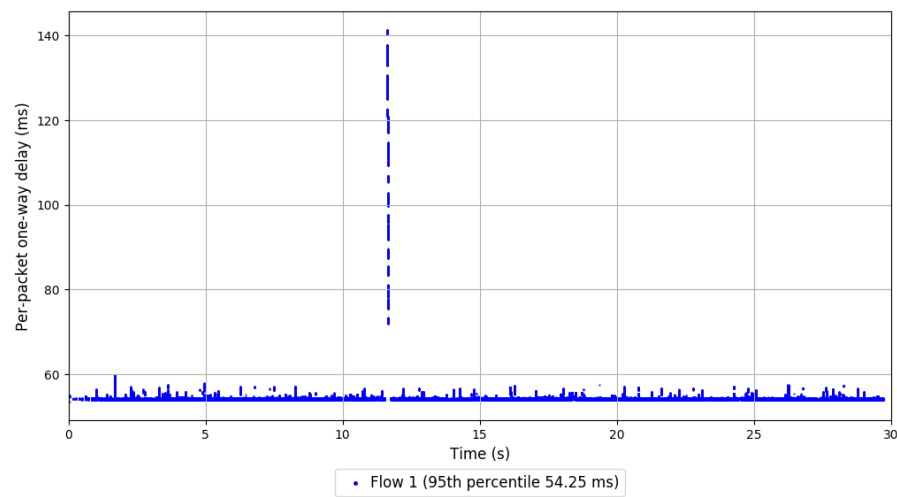
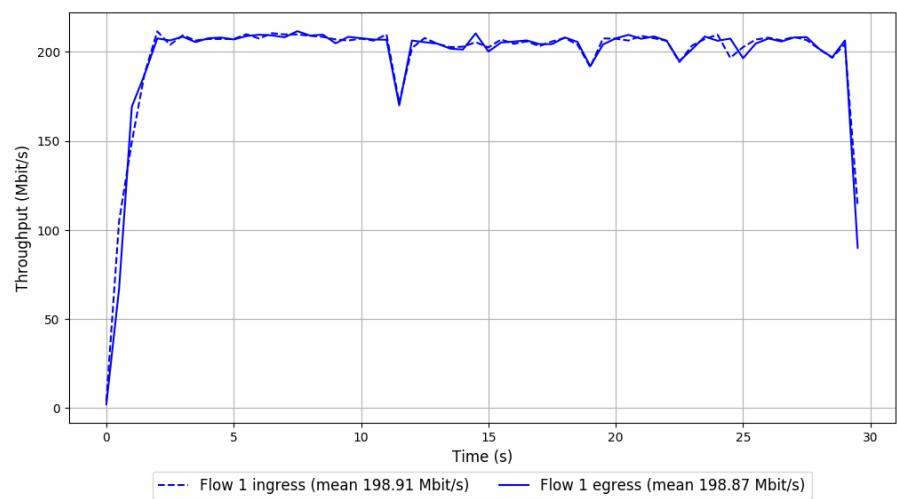
-- Flow 1:

Average throughput: 198.87 Mbit/s

95th percentile per-packet one-way delay: 54.250 ms

Loss rate: 0.37%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2017-09-21 15:02:20

End at: 2017-09-21 15:02:50

Below is generated by plot.py at 2017-09-21 18:27:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 200.70 Mbit/s

95th percentile per-packet one-way delay: 54.189 ms

Loss rate: 0.35%

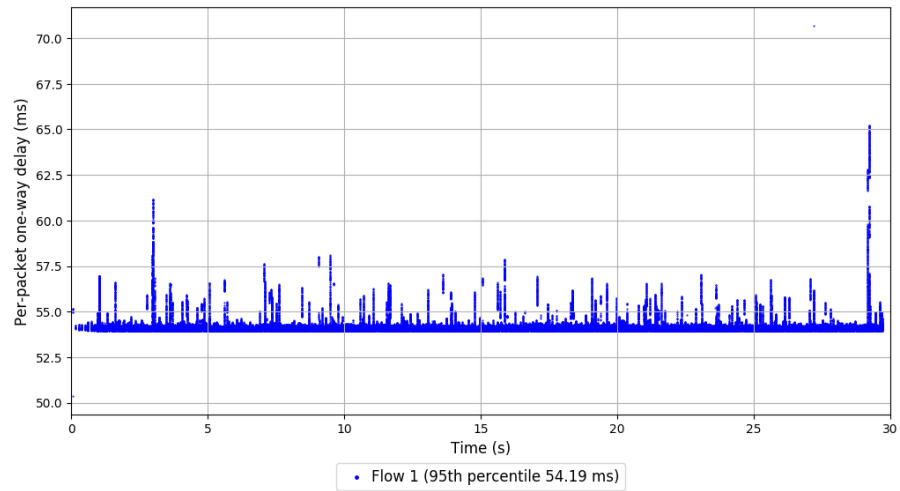
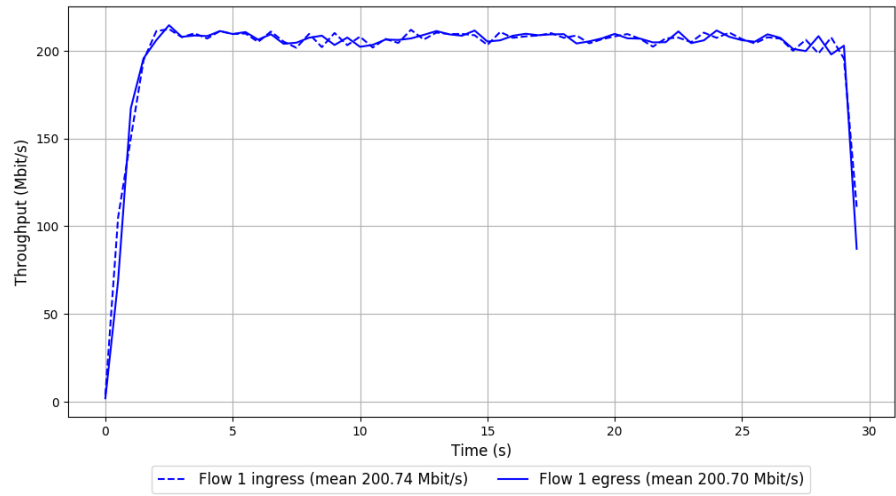
-- Flow 1:

Average throughput: 200.70 Mbit/s

95th percentile per-packet one-way delay: 54.189 ms

Loss rate: 0.35%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2017-09-21 15:13:06

End at: 2017-09-21 15:13:36

Below is generated by plot.py at 2017-09-21 18:27:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 200.54 Mbit/s

95th percentile per-packet one-way delay: 54.174 ms

Loss rate: 0.37%

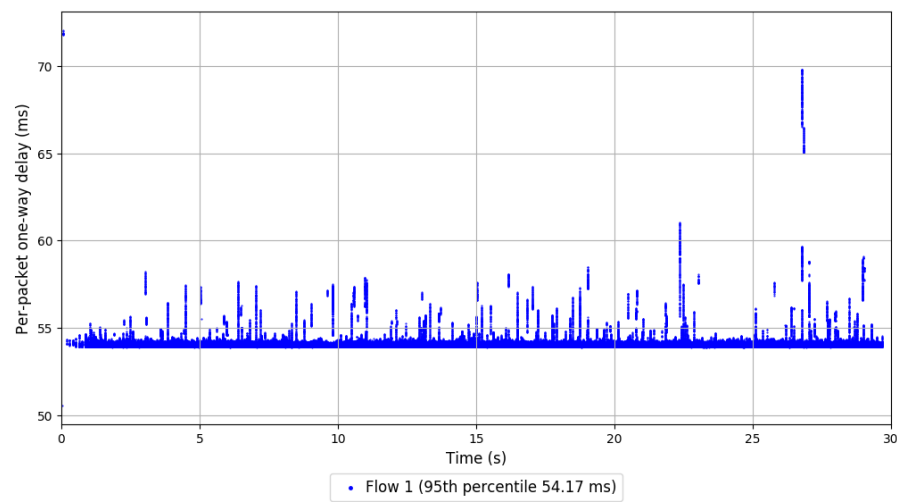
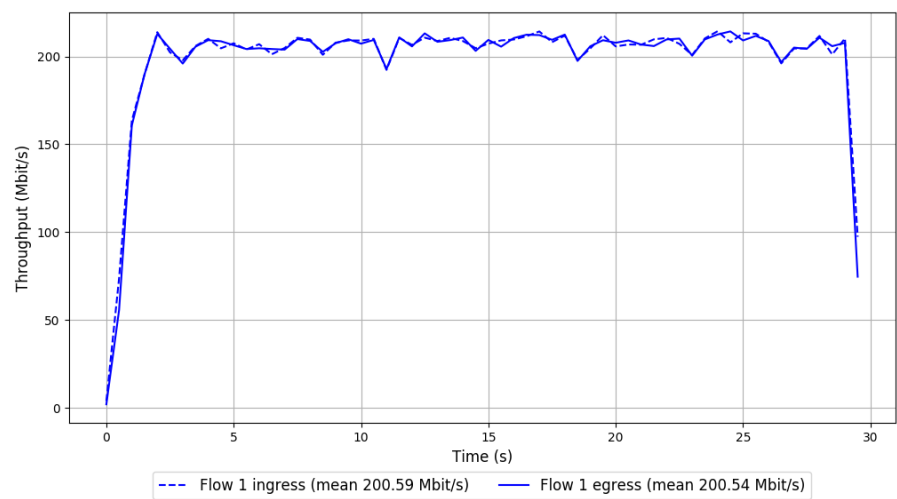
-- Flow 1:

Average throughput: 200.54 Mbit/s

95th percentile per-packet one-way delay: 54.174 ms

Loss rate: 0.37%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2017-09-21 15:22:52

End at: 2017-09-21 15:23:22

Below is generated by plot.py at 2017-09-21 18:27:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 195.71 Mbit/s

95th percentile per-packet one-way delay: 54.096 ms

Loss rate: 0.32%

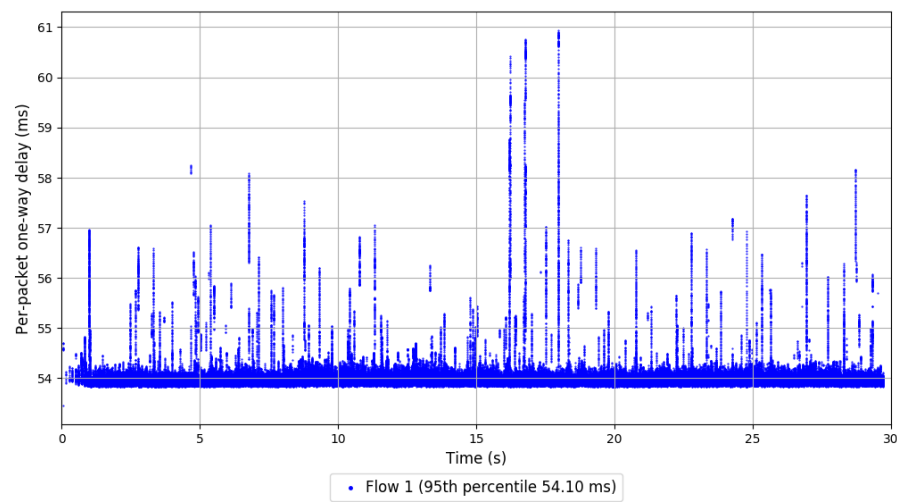
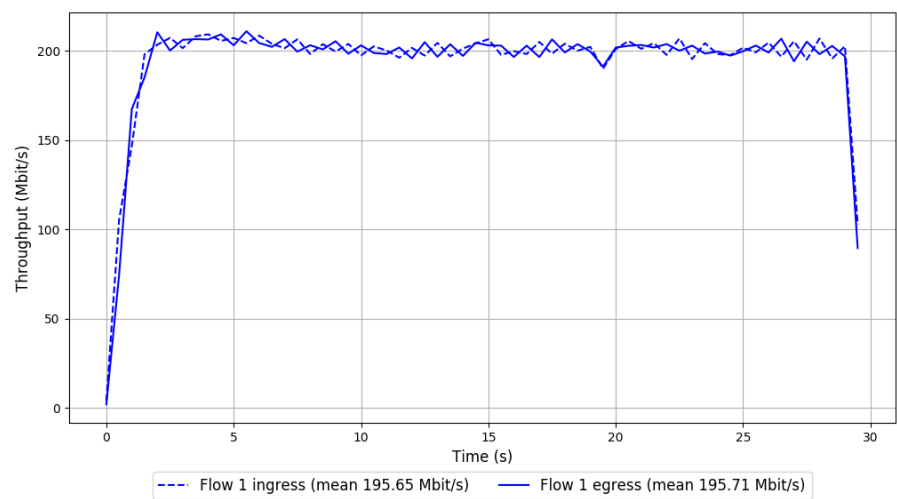
-- Flow 1:

Average throughput: 195.71 Mbit/s

95th percentile per-packet one-way delay: 54.096 ms

Loss rate: 0.32%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2017-09-21 15:33:16

End at: 2017-09-21 15:33:46

Below is generated by plot.py at 2017-09-21 18:27:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 197.55 Mbit/s

95th percentile per-packet one-way delay: 54.018 ms

Loss rate: 0.38%

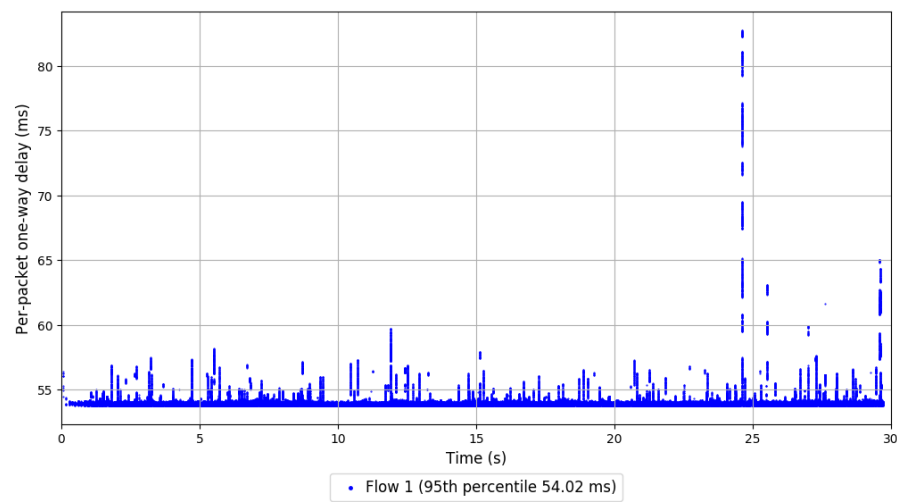
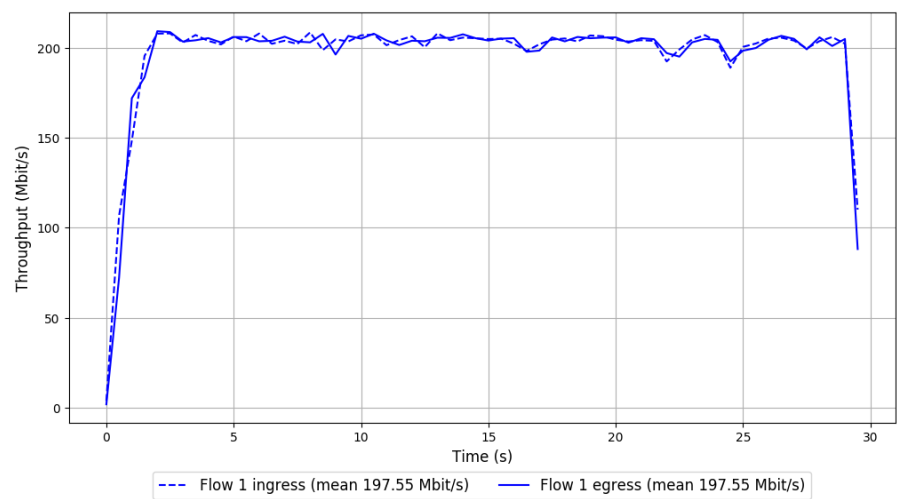
-- Flow 1:

Average throughput: 197.55 Mbit/s

95th percentile per-packet one-way delay: 54.018 ms

Loss rate: 0.38%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2017-09-21 15:43:46

End at: 2017-09-21 15:44:16

Below is generated by plot.py at 2017-09-21 18:27:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 192.97 Mbit/s

95th percentile per-packet one-way delay: 53.998 ms

Loss rate: 0.37%

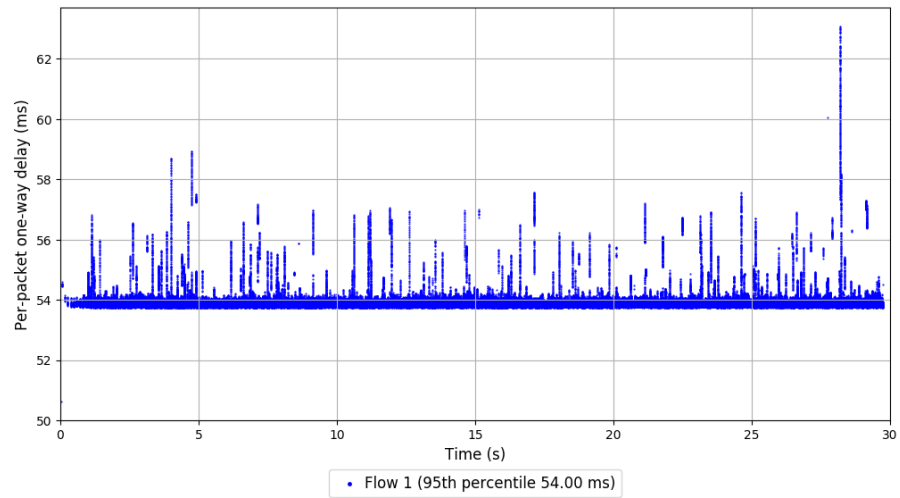
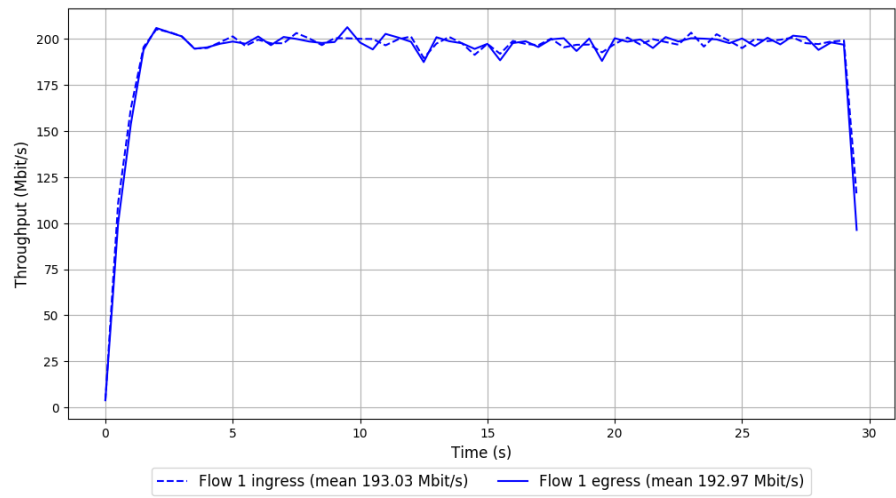
-- Flow 1:

Average throughput: 192.97 Mbit/s

95th percentile per-packet one-way delay: 53.998 ms

Loss rate: 0.37%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2017-09-21 15:53:39

End at: 2017-09-21 15:54:09

Below is generated by plot.py at 2017-09-21 18:27:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 194.40 Mbit/s

95th percentile per-packet one-way delay: 53.988 ms

Loss rate: 0.37%

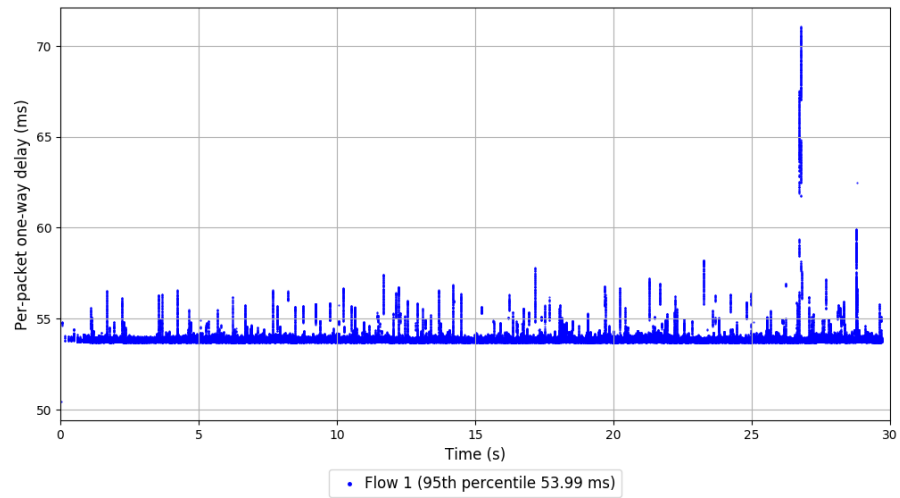
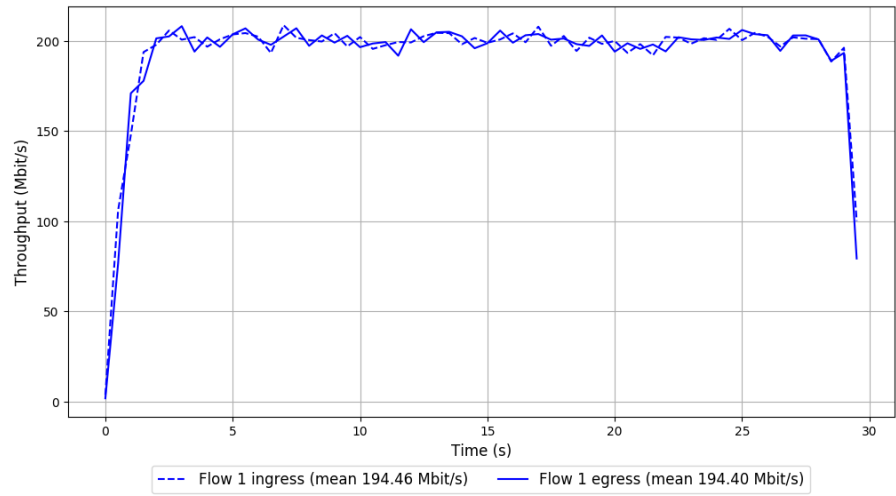
-- Flow 1:

Average throughput: 194.40 Mbit/s

95th percentile per-packet one-way delay: 53.988 ms

Loss rate: 0.37%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2017-09-21 16:04:02

End at: 2017-09-21 16:04:32

Below is generated by plot.py at 2017-09-21 18:27:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 194.63 Mbit/s

95th percentile per-packet one-way delay: 54.007 ms

Loss rate: 0.36%

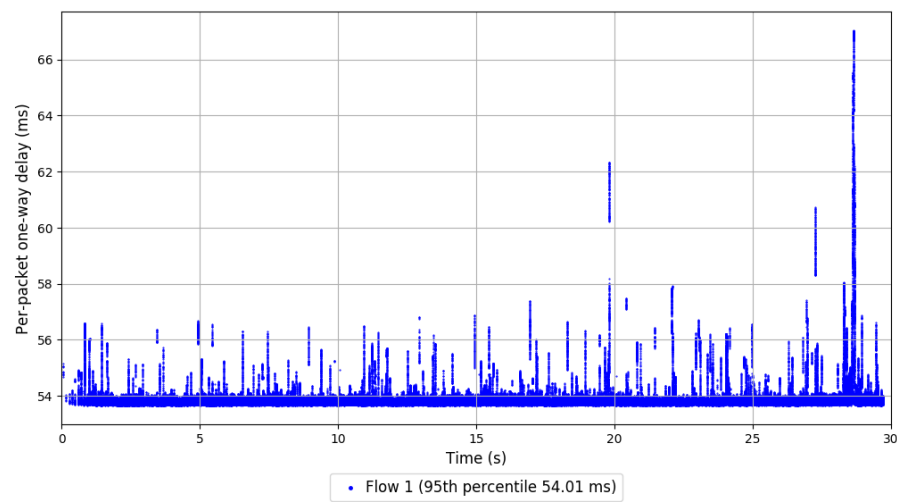
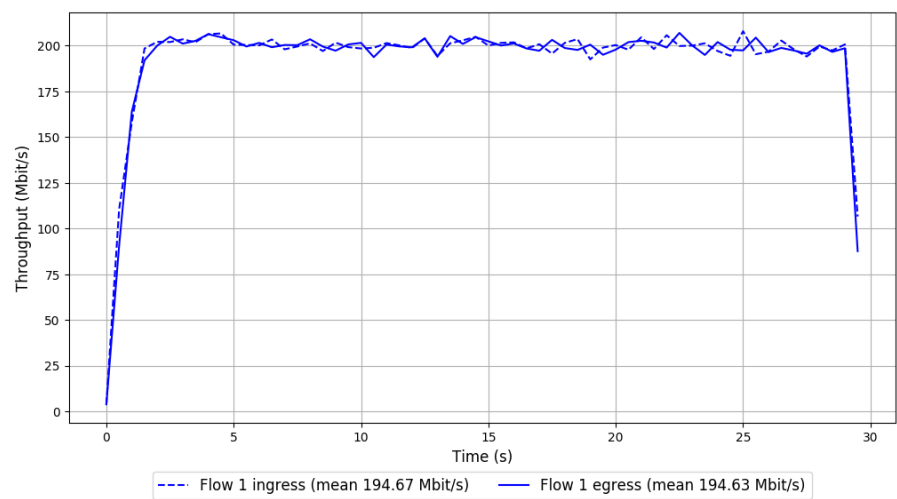
-- Flow 1:

Average throughput: 194.63 Mbit/s

95th percentile per-packet one-way delay: 54.007 ms

Loss rate: 0.36%

Run 10: Report of Indigo — Data Link

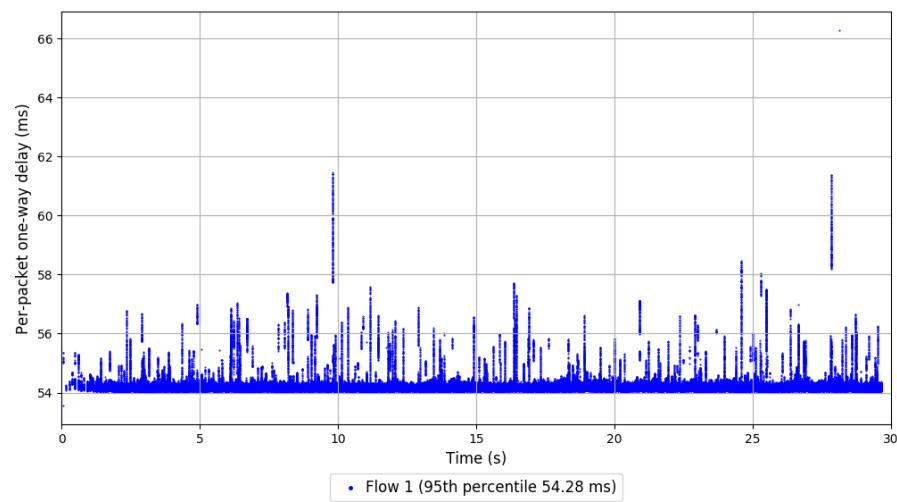
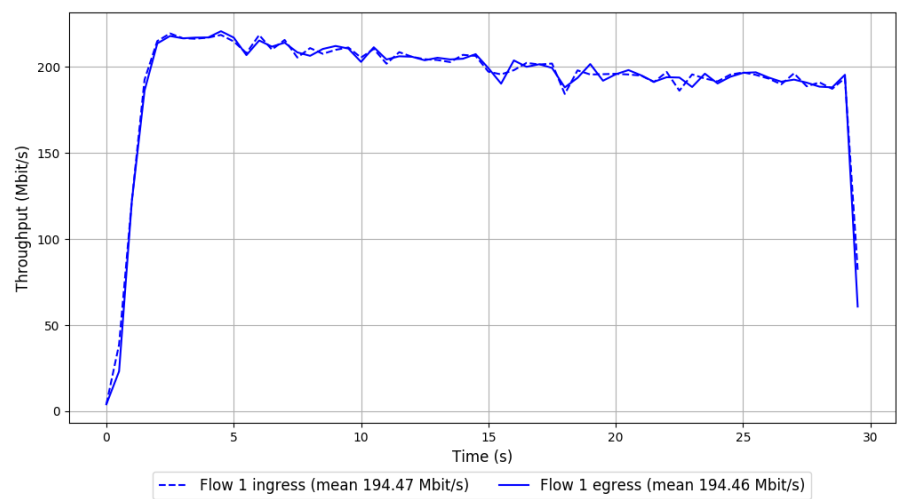


```
Run 1: Statistics of Indigo-calib

Start at: 2017-09-21 14:29:42
End at: 2017-09-21 14:30:12

# Below is generated by plot.py at 2017-09-21 18:28:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 194.46 Mbit/s
95th percentile per-packet one-way delay: 54.283 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 194.46 Mbit/s
95th percentile per-packet one-way delay: 54.283 ms
Loss rate: 0.36%
```

Run 1: Report of Indigo-calib — Data Link

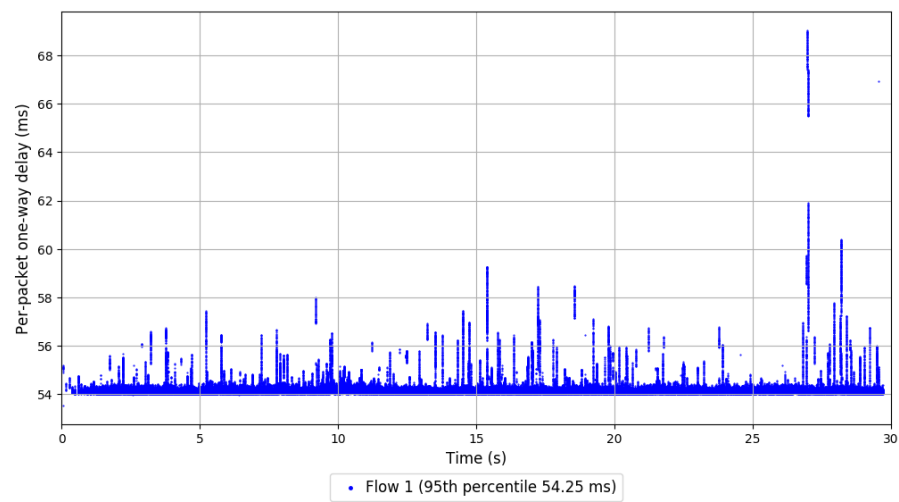
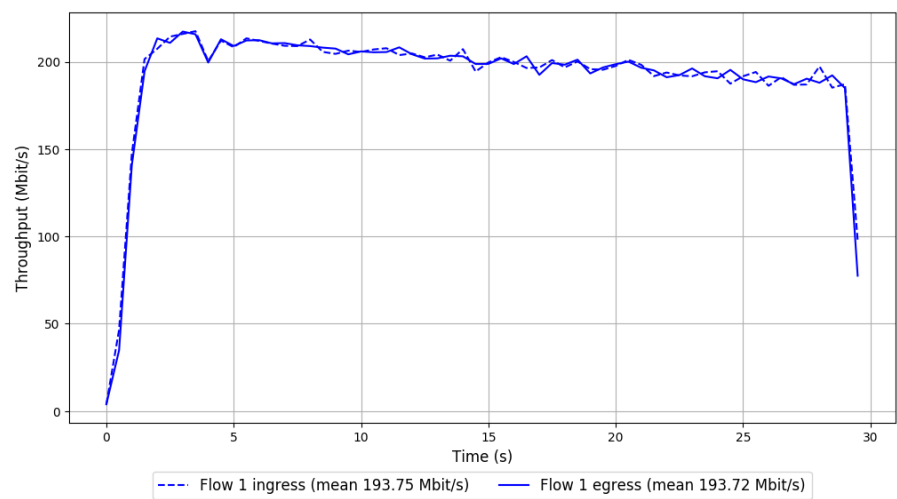


```
Run 2: Statistics of Indigo-calib

Start at: 2017-09-21 14:40:12
End at: 2017-09-21 14:40:42

# Below is generated by plot.py at 2017-09-21 18:30:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 193.72 Mbit/s
95th percentile per-packet one-way delay: 54.254 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 193.72 Mbit/s
95th percentile per-packet one-way delay: 54.254 ms
Loss rate: 0.35%
```

Run 2: Report of Indigo-calib — Data Link



Run 3: Statistics of Indigo-calib

Start at: 2017-09-21 14:50:41

End at: 2017-09-21 14:51:11

Below is generated by plot.py at 2017-09-21 18:30:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 200.57 Mbit/s

95th percentile per-packet one-way delay: 54.204 ms

Loss rate: 0.36%

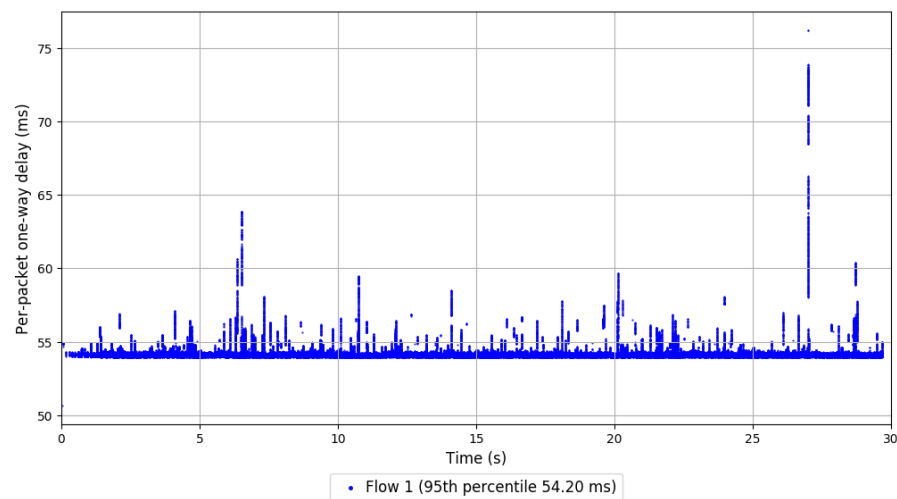
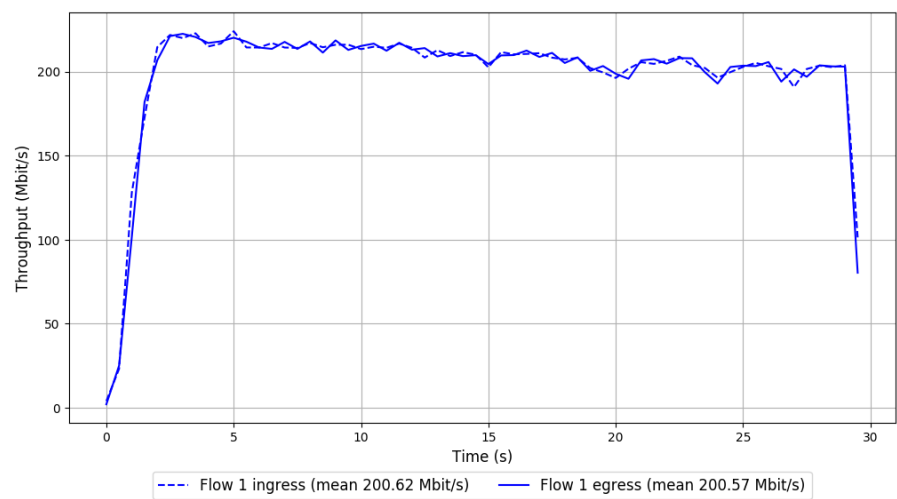
-- Flow 1:

Average throughput: 200.57 Mbit/s

95th percentile per-packet one-way delay: 54.204 ms

Loss rate: 0.36%

Run 3: Report of Indigo-calib — Data Link



Run 4: Statistics of Indigo-calib

Start at: 2017-09-21 15:01:29

End at: 2017-09-21 15:01:59

Below is generated by plot.py at 2017-09-21 18:30:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 191.96 Mbit/s

95th percentile per-packet one-way delay: 54.211 ms

Loss rate: 0.34%

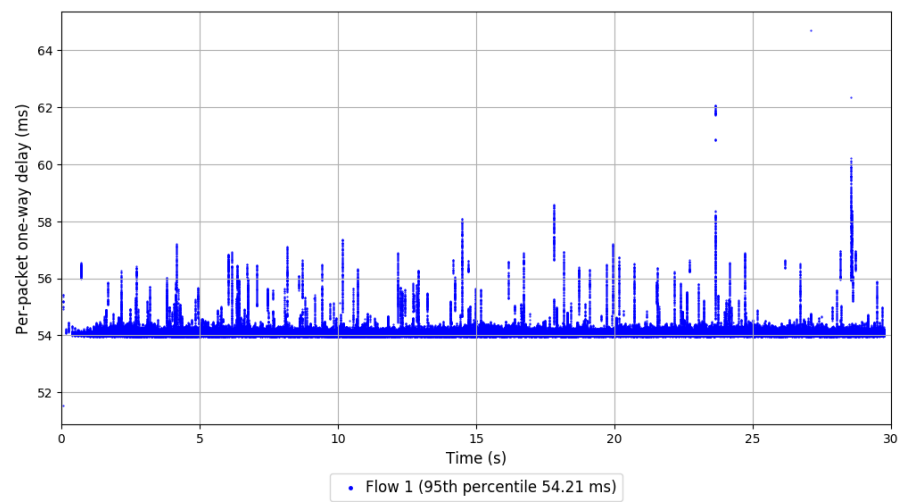
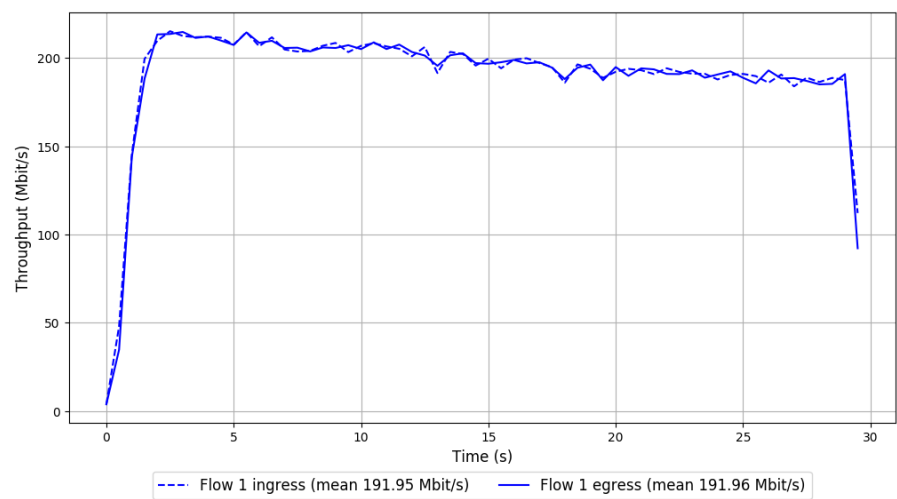
-- Flow 1:

Average throughput: 191.96 Mbit/s

95th percentile per-packet one-way delay: 54.211 ms

Loss rate: 0.34%

Run 4: Report of Indigo-calib — Data Link



Run 5: Statistics of Indigo-calib

Start at: 2017-09-21 15:12:15

End at: 2017-09-21 15:12:46

Below is generated by plot.py at 2017-09-21 18:30:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 190.81 Mbit/s

95th percentile per-packet one-way delay: 54.207 ms

Loss rate: 0.35%

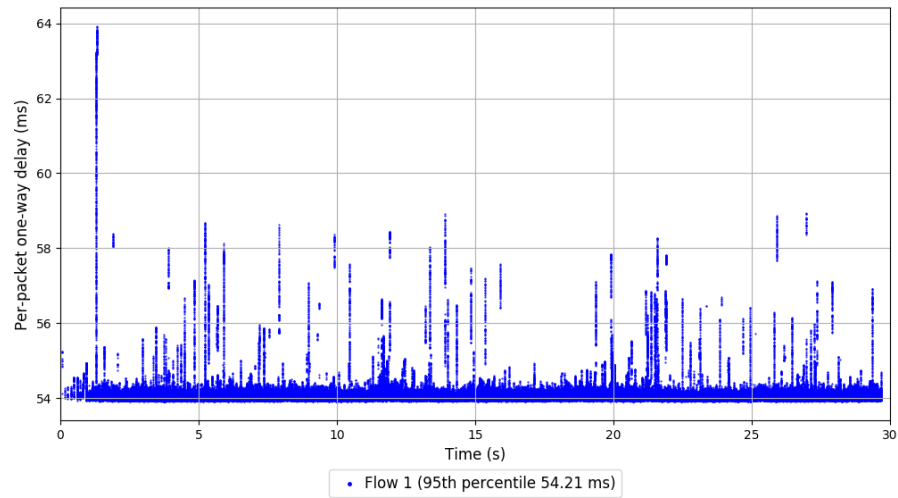
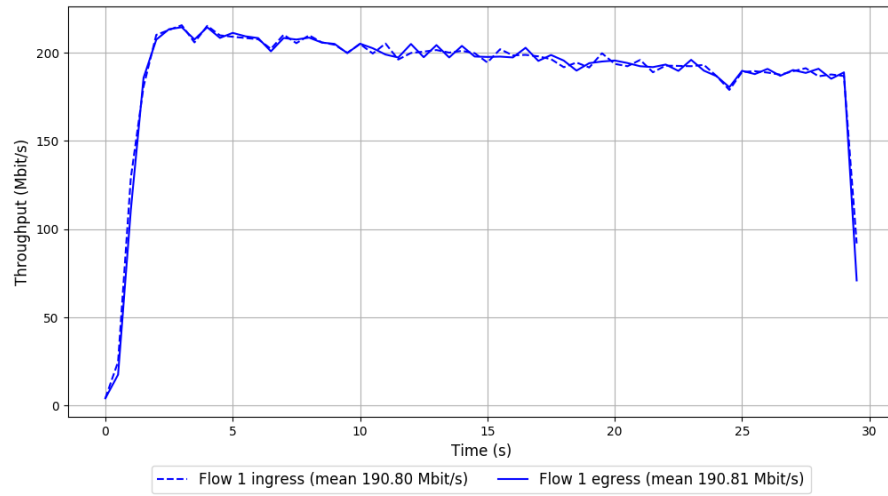
-- Flow 1:

Average throughput: 190.81 Mbit/s

95th percentile per-packet one-way delay: 54.207 ms

Loss rate: 0.35%

Run 5: Report of Indigo-calib — Data Link

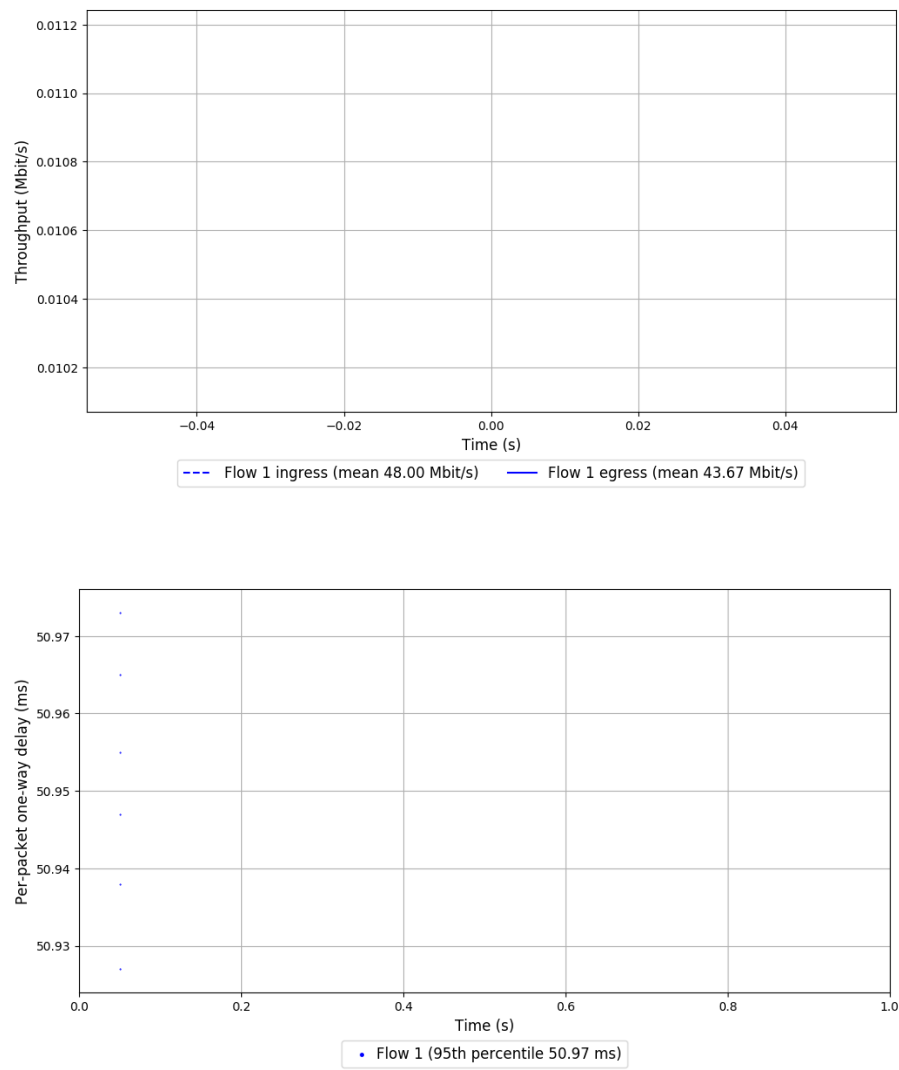


Run 6: Statistics of Indigo-calib

Start at: 2017-09-21 15:22:15

End at: 2017-09-21 15:22:45

Run 6: Report of Indigo-calib — Data Link



Run 7: Statistics of Indigo-calib

Start at: 2017-09-21 15:32:25

End at: 2017-09-21 15:32:55

Below is generated by plot.py at 2017-09-21 18:31:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 199.14 Mbit/s

95th percentile per-packet one-way delay: 54.066 ms

Loss rate: 0.35%

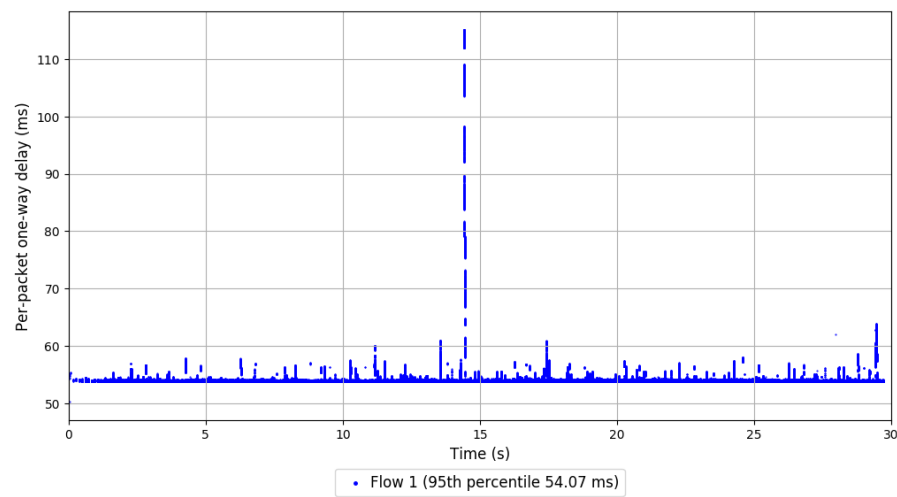
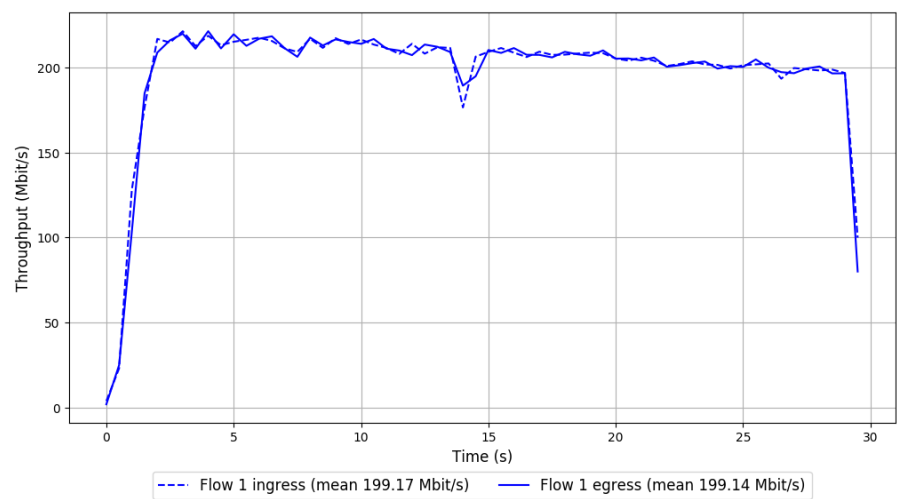
-- Flow 1:

Average throughput: 199.14 Mbit/s

95th percentile per-packet one-way delay: 54.066 ms

Loss rate: 0.35%

Run 7: Report of Indigo-calib — Data Link



Run 8: Statistics of Indigo-calib

Start at: 2017-09-21 15:42:55

End at: 2017-09-21 15:43:25

Below is generated by plot.py at 2017-09-21 18:31:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 201.72 Mbit/s

95th percentile per-packet one-way delay: 53.987 ms

Loss rate: 0.34%

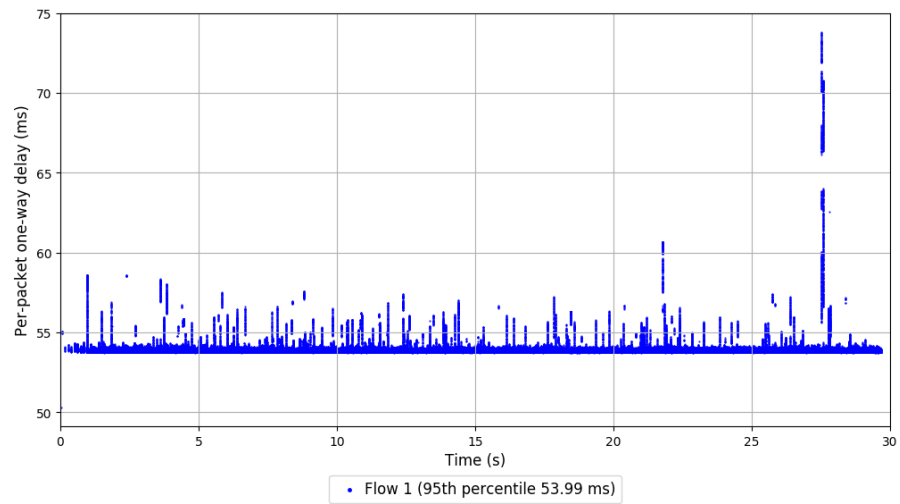
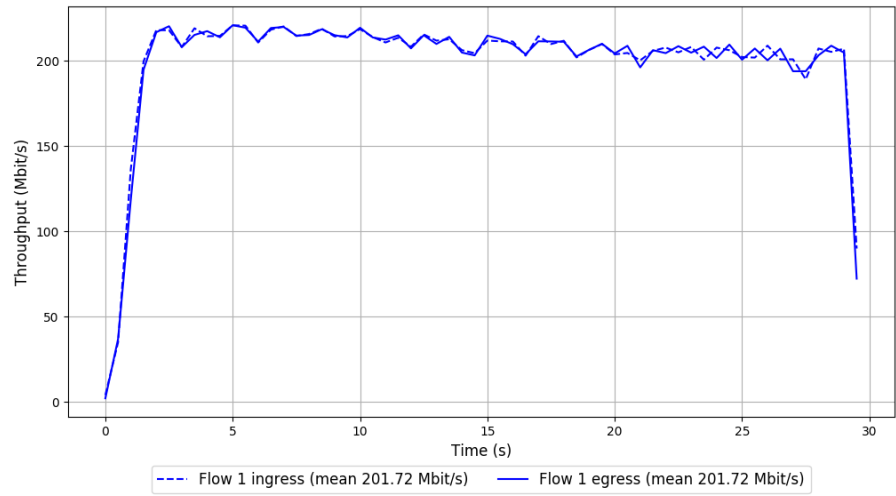
-- Flow 1:

Average throughput: 201.72 Mbit/s

95th percentile per-packet one-way delay: 53.987 ms

Loss rate: 0.34%

Run 8: Report of Indigo-calib — Data Link

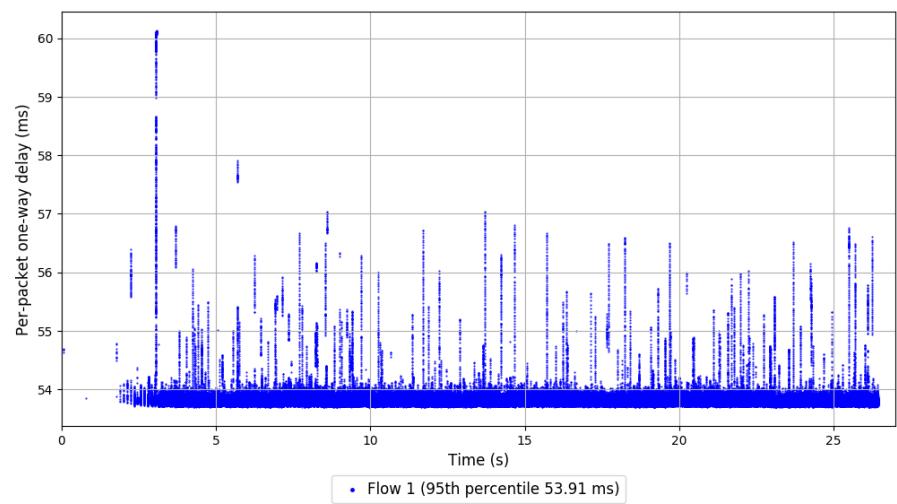
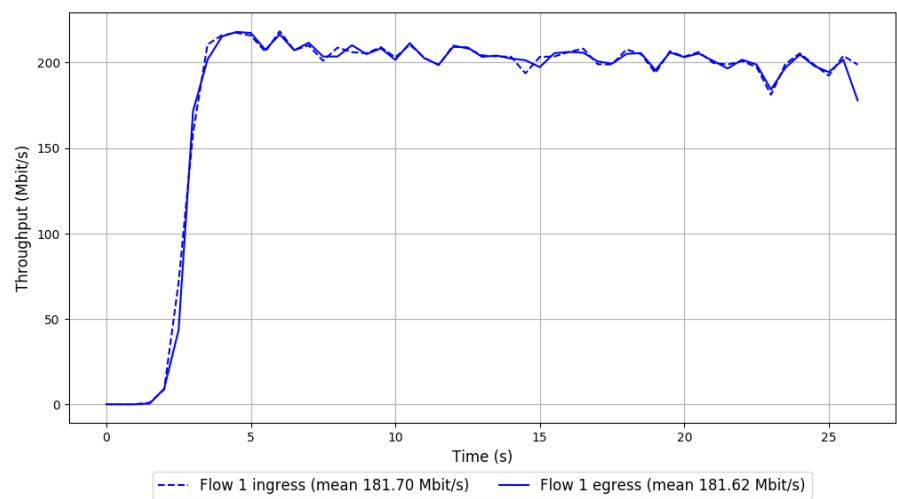


```
Run 9: Statistics of Indigo-calib

Start at: 2017-09-21 15:52:50
End at: 2017-09-21 15:53:20

# Below is generated by plot.py at 2017-09-21 18:31:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 181.62 Mbit/s
95th percentile per-packet one-way delay: 53.913 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 181.62 Mbit/s
95th percentile per-packet one-way delay: 53.913 ms
Loss rate: 0.45%
```

Run 9: Report of Indigo-calib — Data Link



Run 10: Statistics of Indigo-calib

Start at: 2017-09-21 16:03:10

End at: 2017-09-21 16:03:40

Below is generated by plot.py at 2017-09-21 18:32:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 201.24 Mbit/s

95th percentile per-packet one-way delay: 53.937 ms

Loss rate: 0.34%

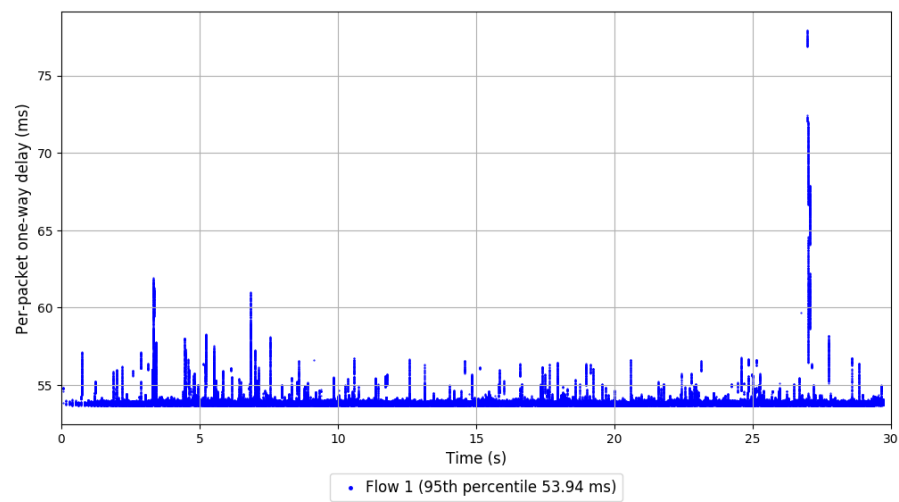
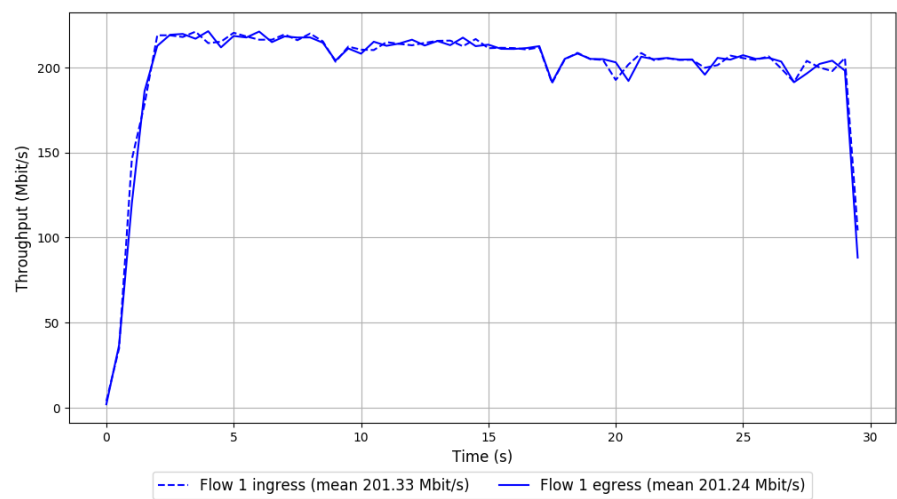
-- Flow 1:

Average throughput: 201.24 Mbit/s

95th percentile per-packet one-way delay: 53.937 ms

Loss rate: 0.34%

Run 10: Report of Indigo-calib — Data Link

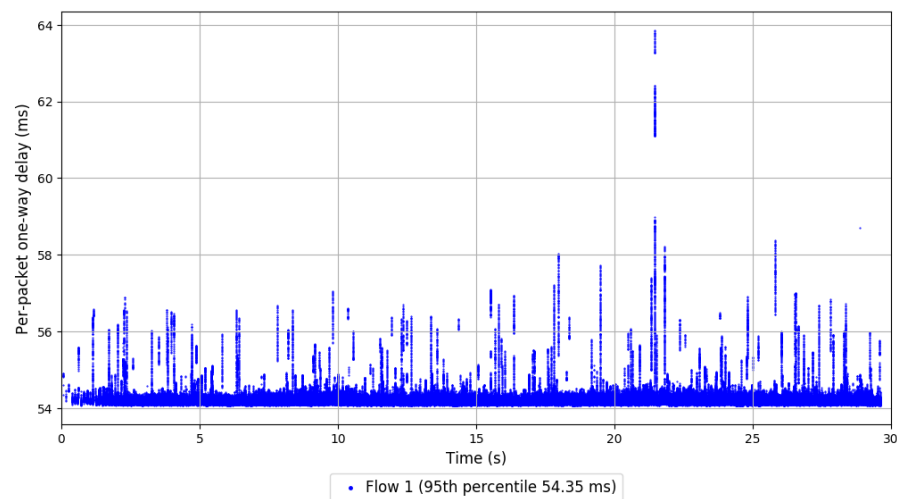
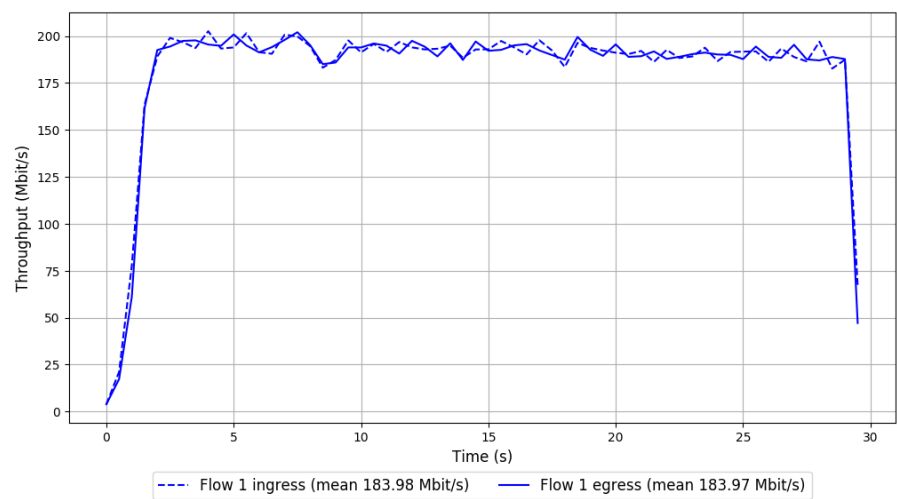


```
Run 1: Statistics of Indigo-delay

Start at: 2017-09-21 14:24:03
End at: 2017-09-21 14:24:33

# Below is generated by plot.py at 2017-09-21 18:33:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 183.97 Mbit/s
95th percentile per-packet one-way delay: 54.348 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 183.97 Mbit/s
95th percentile per-packet one-way delay: 54.348 ms
Loss rate: 0.36%
```

Run 1: Report of Indigo-delay — Data Link

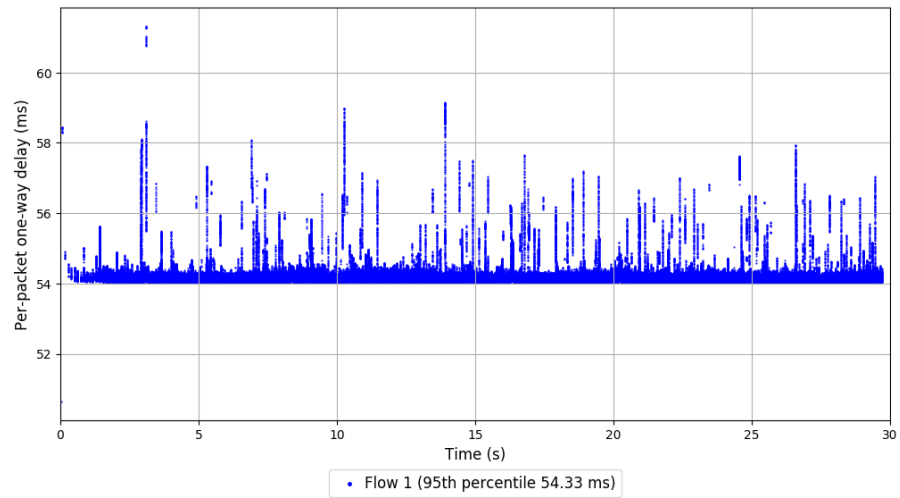
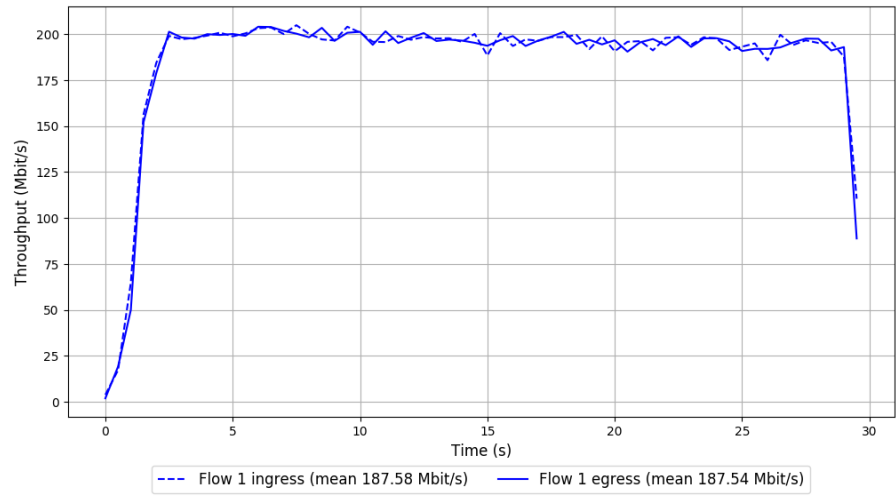


```
Run 2: Statistics of Indigo-delay

Start at: 2017-09-21 14:34:52
End at: 2017-09-21 14:35:22

# Below is generated by plot.py at 2017-09-21 18:33:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 187.54 Mbit/s
95th percentile per-packet one-way delay: 54.325 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 187.54 Mbit/s
95th percentile per-packet one-way delay: 54.325 ms
Loss rate: 0.36%
```

Run 2: Report of Indigo-delay — Data Link



Run 3: Statistics of Indigo-delay

Start at: 2017-09-21 14:45:21

End at: 2017-09-21 14:45:51

Below is generated by plot.py at 2017-09-21 18:33:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 179.98 Mbit/s

95th percentile per-packet one-way delay: 54.233 ms

Loss rate: 0.36%

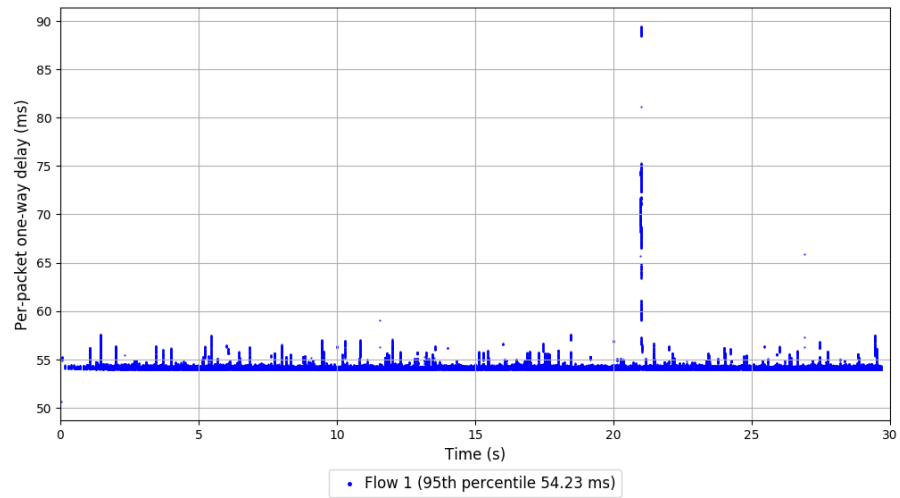
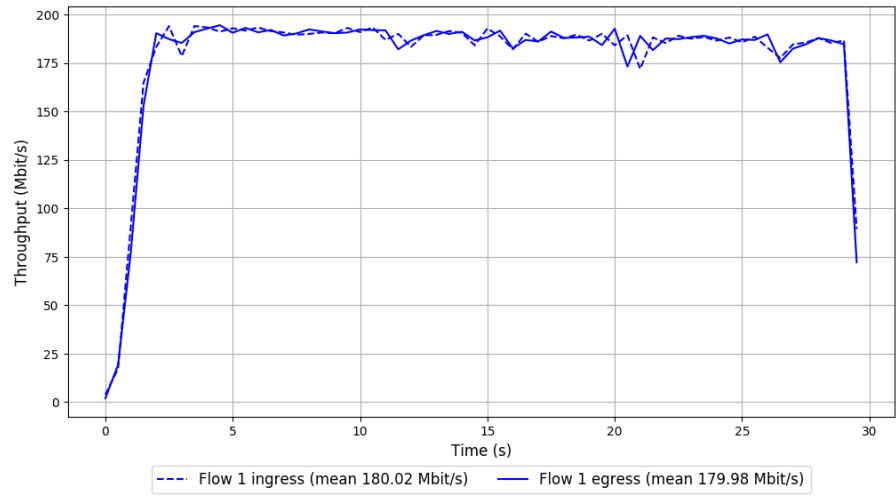
-- Flow 1:

Average throughput: 179.98 Mbit/s

95th percentile per-packet one-way delay: 54.233 ms

Loss rate: 0.36%

Run 3: Report of Indigo-delay — Data Link



Run 4: Statistics of Indigo-delay

Start at: 2017-09-21 14:55:49

End at: 2017-09-21 14:56:19

Below is generated by plot.py at 2017-09-21 18:33:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 171.68 Mbit/s

95th percentile per-packet one-way delay: 54.222 ms

Loss rate: 0.34%

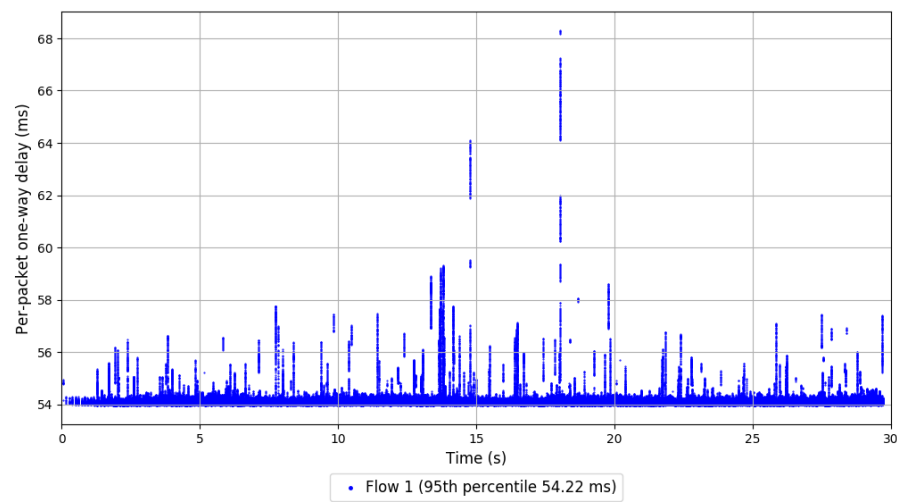
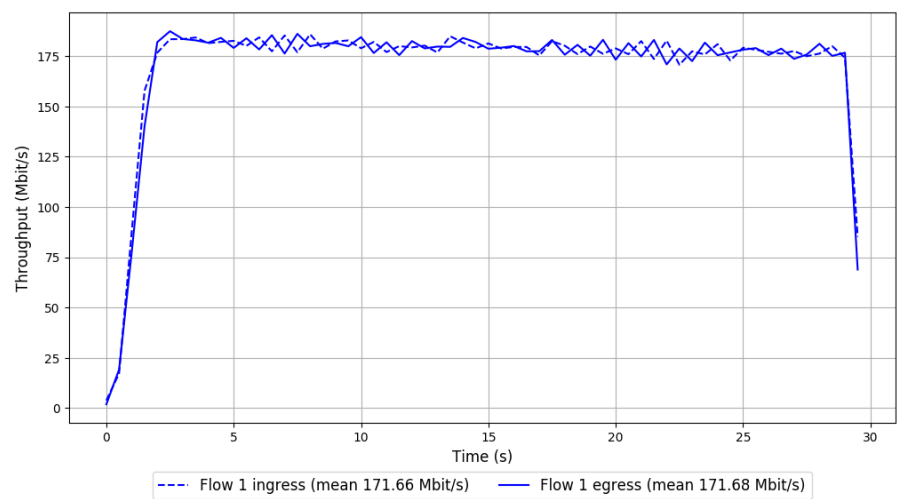
-- Flow 1:

Average throughput: 171.68 Mbit/s

95th percentile per-packet one-way delay: 54.222 ms

Loss rate: 0.34%

Run 4: Report of Indigo-delay — Data Link



Run 5: Statistics of Indigo-delay

Start at: 2017-09-21 15:06:38

End at: 2017-09-21 15:07:08

Below is generated by plot.py at 2017-09-21 18:33:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 175.79 Mbit/s

95th percentile per-packet one-way delay: 54.223 ms

Loss rate: 0.37%

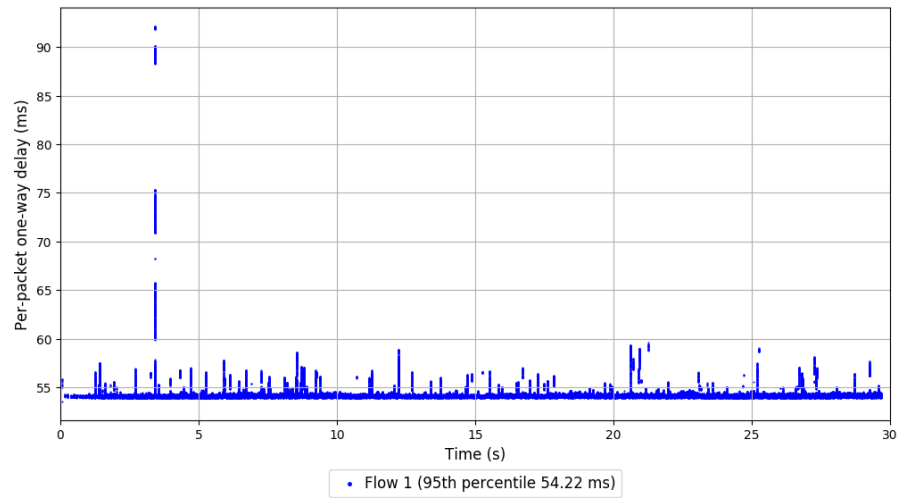
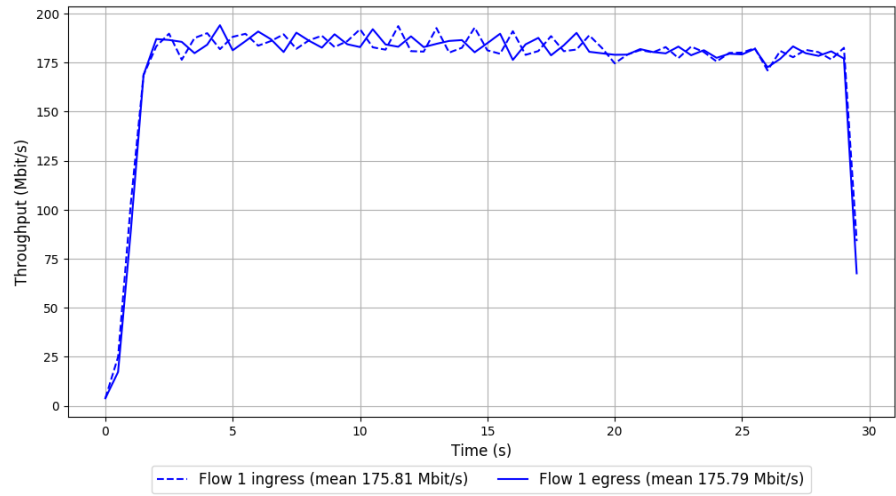
-- Flow 1:

Average throughput: 175.79 Mbit/s

95th percentile per-packet one-way delay: 54.223 ms

Loss rate: 0.37%

Run 5: Report of Indigo-delay — Data Link



Run 6: Statistics of Indigo-delay

Start at: 2017-09-21 15:17:22

End at: 2017-09-21 15:17:52

Below is generated by plot.py at 2017-09-21 18:33:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 182.62 Mbit/s

95th percentile per-packet one-way delay: 54.182 ms

Loss rate: 0.35%

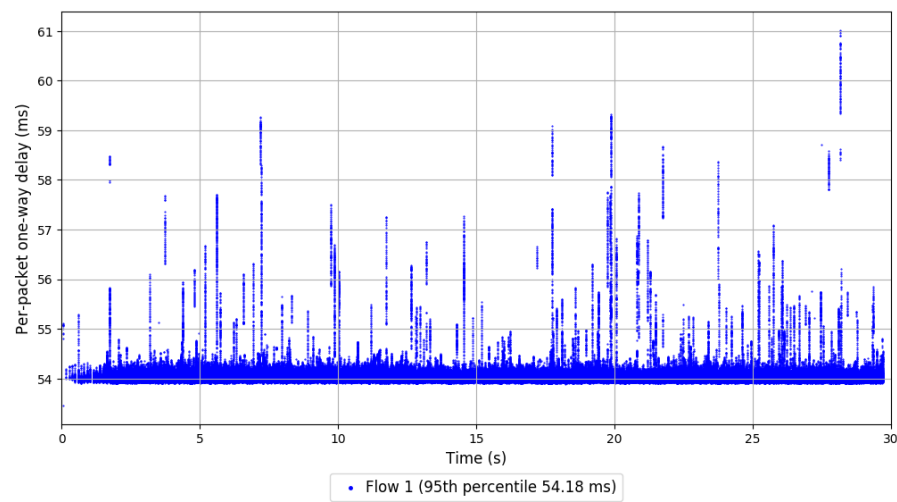
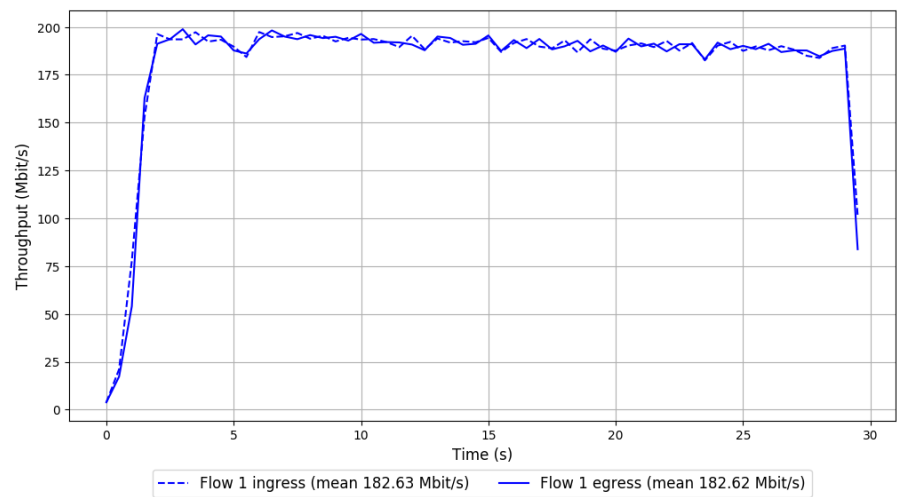
-- Flow 1:

Average throughput: 182.62 Mbit/s

95th percentile per-packet one-way delay: 54.182 ms

Loss rate: 0.35%

Run 6: Report of Indigo-delay — Data Link



Run 7: Statistics of Indigo-delay

Start at: 2017-09-21 15:27:07

End at: 2017-09-21 15:27:37

Below is generated by plot.py at 2017-09-21 18:33:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 189.25 Mbit/s

95th percentile per-packet one-way delay: 54.088 ms

Loss rate: 0.35%

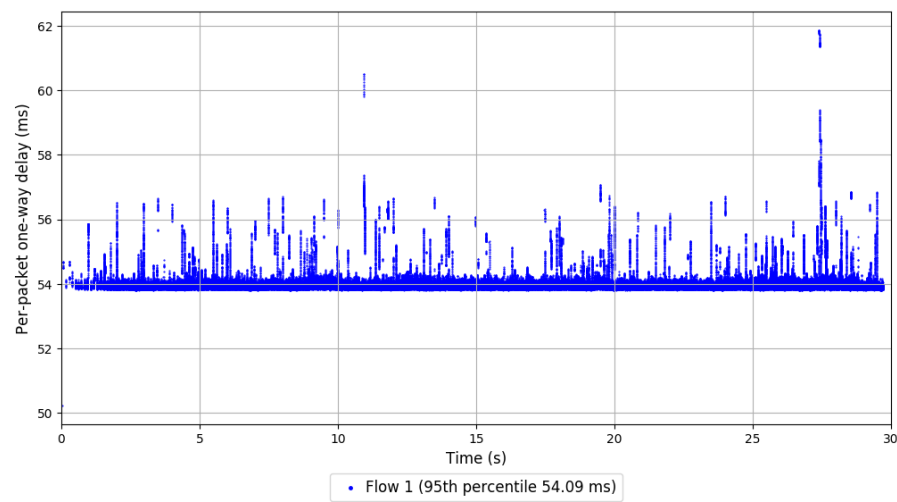
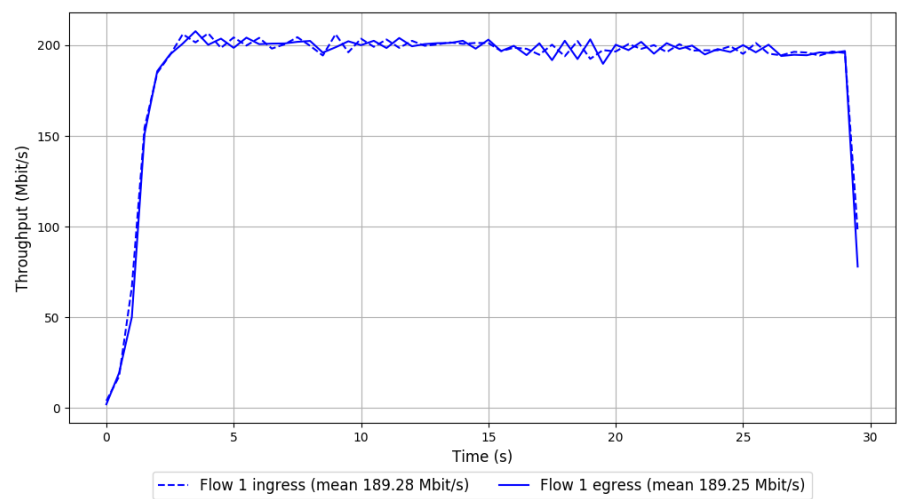
-- Flow 1:

Average throughput: 189.25 Mbit/s

95th percentile per-packet one-way delay: 54.088 ms

Loss rate: 0.35%

Run 7: Report of Indigo-delay — Data Link



Run 8: Statistics of Indigo-delay

Start at: 2017-09-21 15:37:34

End at: 2017-09-21 15:38:04

Below is generated by plot.py at 2017-09-21 18:34:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 165.10 Mbit/s

95th percentile per-packet one-way delay: 54.045 ms

Loss rate: 0.39%

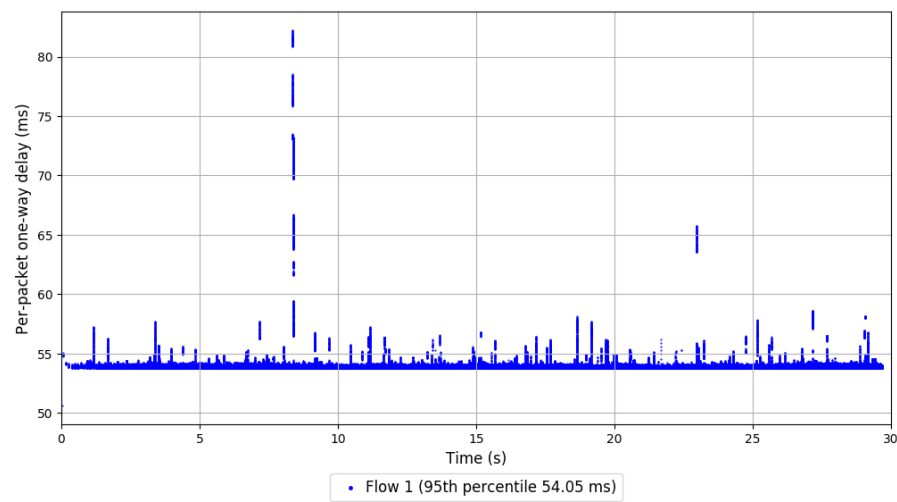
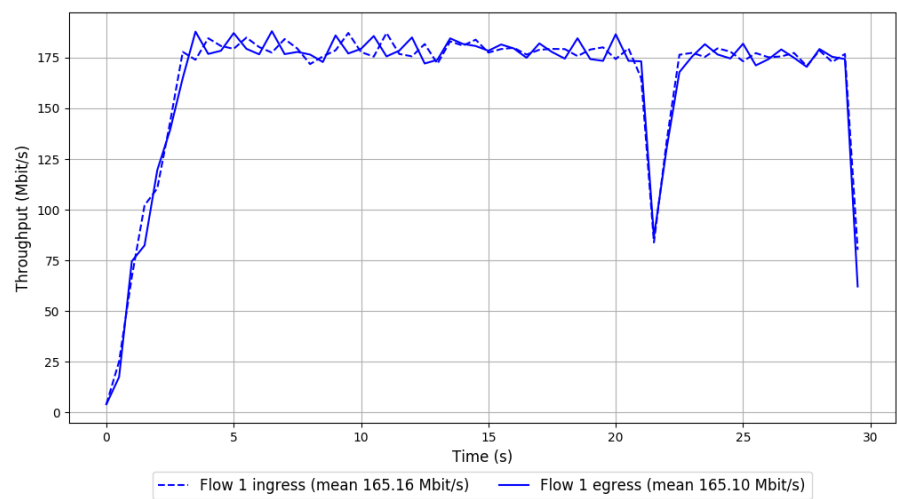
-- Flow 1:

Average throughput: 165.10 Mbit/s

95th percentile per-packet one-way delay: 54.045 ms

Loss rate: 0.39%

Run 8: Report of Indigo-delay — Data Link



Run 9: Statistics of Indigo-delay

Start at: 2017-09-21 15:47:56

End at: 2017-09-21 15:48:26

Below is generated by plot.py at 2017-09-21 18:34:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 185.34 Mbit/s

95th percentile per-packet one-way delay: 54.020 ms

Loss rate: 0.36%

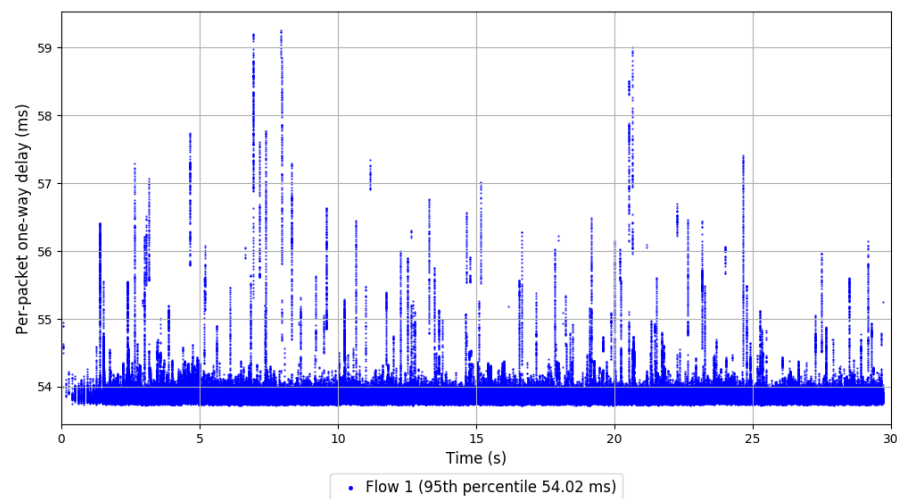
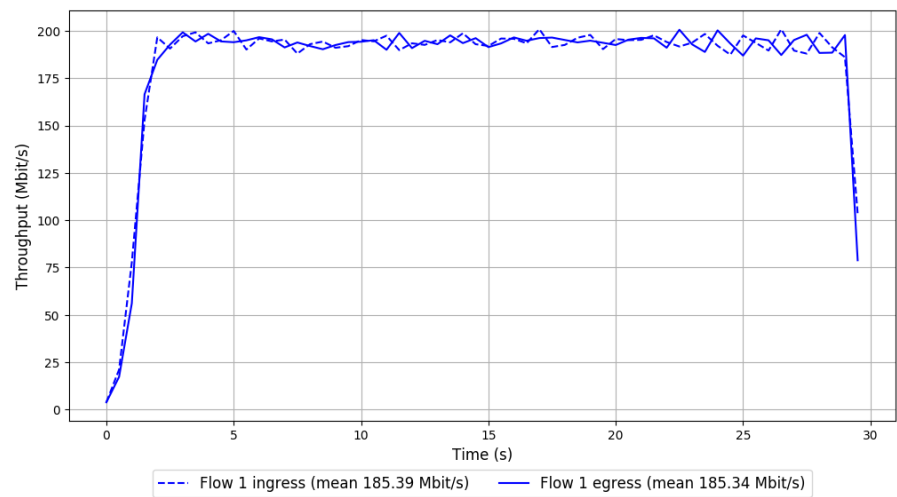
-- Flow 1:

Average throughput: 185.34 Mbit/s

95th percentile per-packet one-way delay: 54.020 ms

Loss rate: 0.36%

Run 9: Report of Indigo-delay — Data Link



Run 10: Statistics of Indigo-delay

Start at: 2017-09-21 15:57:54

End at: 2017-09-21 15:58:24

Below is generated by plot.py at 2017-09-21 18:34:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 179.51 Mbit/s

95th percentile per-packet one-way delay: 53.895 ms

Loss rate: 0.36%

-- Flow 1:

Average throughput: 179.51 Mbit/s

95th percentile per-packet one-way delay: 53.895 ms

Loss rate: 0.36%

Run 10: Report of Indigo-delay — Data Link

